

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112119\  
 Data File : VY000769.D  
 Acq On : 21 Nov 2019 15:42  
 Operator : SY/MD  
 Sample : K5957-11RE  
 Misc : 4.92G/5ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MW-5-(12-14)RE

Quant Time: Nov 22 04:34:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 2019  
 Response via : Initial Calibration

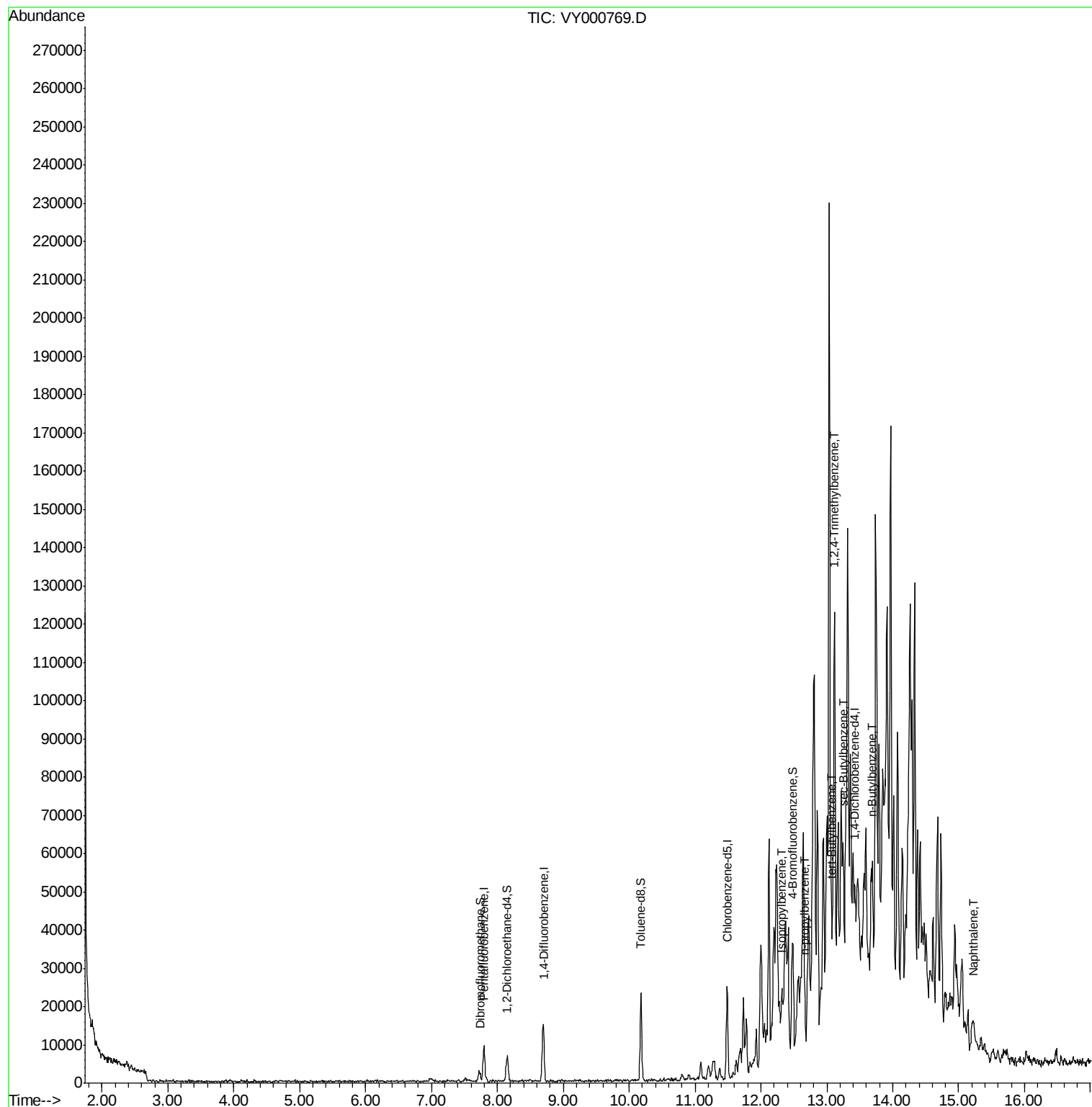
| Internal Standards          | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 7.80   | 168  | 7525     | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.69   | 114  | 13082    | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.49  | 117  | 13047    | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.42  | 152  | 6025     | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.14   | 65   | 5239     | 67.28   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 134.56% |          |
| 35) Dibromofluoromethane    | 7.74   | 113  | 2162     | 28.15   | ug/l    | 0.01     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 56.30%  |          |
| 50) Toluene-d8              | 10.17  | 98   | 15474    | 53.10   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 106.20% |          |
| 62) 4-Bromofluorobenzene    | 12.47  | 95   | 5992     | 54.01   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 108.02% |          |
| Target Compounds            |        |      |          |         |         |          |
| 73) Isopropylbenzene        | 12.33  | 105  | 2669     | 5.994   | ug/l    | 87       |
| 78) n-propylbenzene         | 12.67  | 91   | 6317     | 11.757  | ug/l    | 97       |
| 83) tert-Butylbenzene       | 13.07  | 119  | 1839     | 5.808   | ug/l    | 95       |
| 84) 1,2,4-Trimethylbenzene  | 13.12  | 105  | 46115    | 124.887 | ug/l    | 97       |
| 85) sec-Butylbenzene        | 13.25  | 105  | 8714     | 19.315  | ug/l #  | 64       |
| 89) n-Butylbenzene          | 13.69  | 91   | 13135    | 33.121  | ug/l #  | 82       |
| 95) Naphthalene             | 15.23  | 128  | 2679     | 9.876   | ug/l #  | 85       |

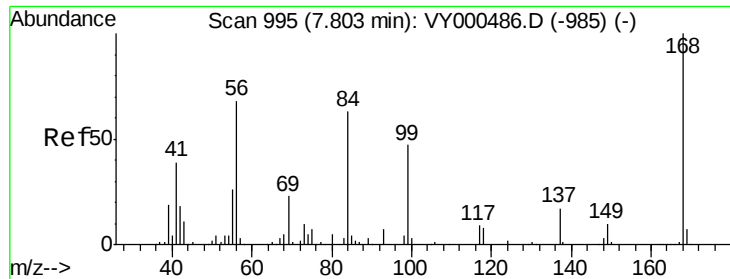
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MW-5-(12-14)RE

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 30 13:30:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY000769.D

Acq: 21 Nov 2019 15:42

Instrument :

MSVOA\_Y

ClientSampleId :

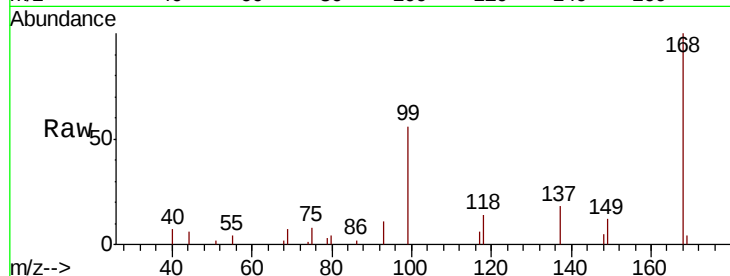
MW-5-(12-14)RE

Tot Ion:168 Resp: 7525

Ion Ratio Lower Upper

168 100

99 55.6 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VY000486.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY000486.D (-985) (-)

7.80

4000

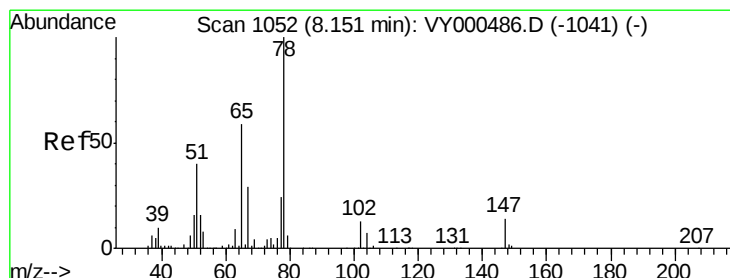
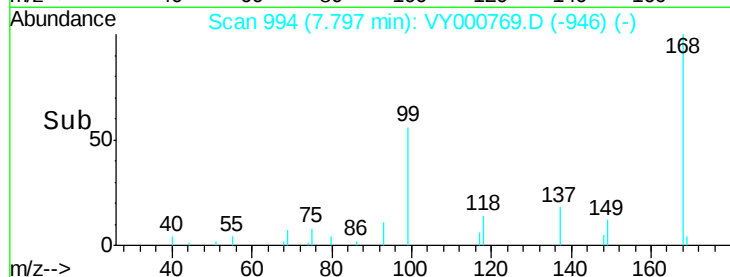
3000

2000

1000

0

Time--> 7.70 7.75 7.80 7.85



#33

1,2-Dichloroethane-d4

Concen: 67.275 ug/l

RT: 8.14 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VY000769.D

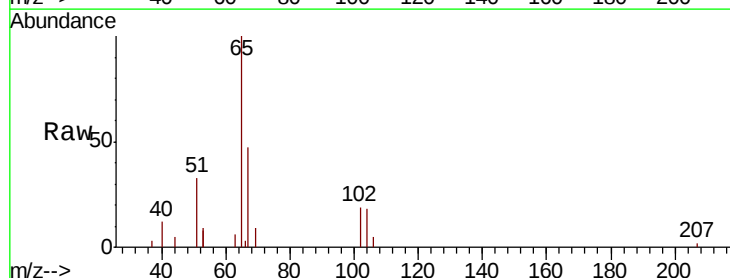
Acq: 21 Nov 2019 15:42

Tgt Ion: 65 Resp: 5239

Ion Ratio Lower Upper

65 100

67 58.7 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VY000486.D (-1041) (-)

Ion 66.90 (66.60 to 67.60): VY000486.D (-1041) (-)

8.14

2500

2000

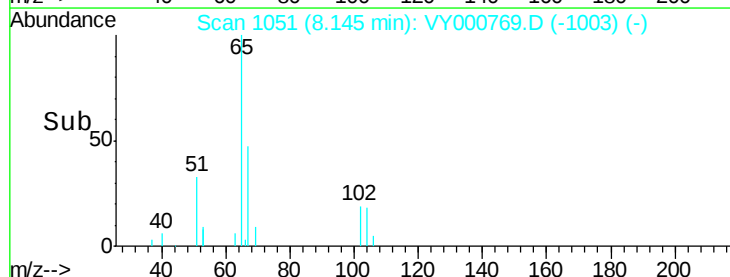
1500

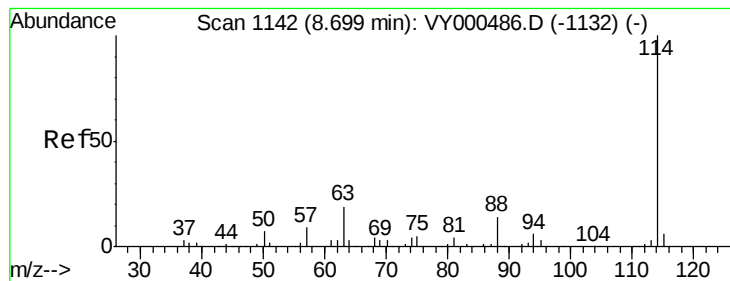
1000

500

0

Time--> 8.05 8.10 8.15 8.20





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VY000769.D

Acq: 21 Nov 2019 15:42

Instrument :

MSVOA\_Y

ClientSampleId :

MW-5-(12-14)RE

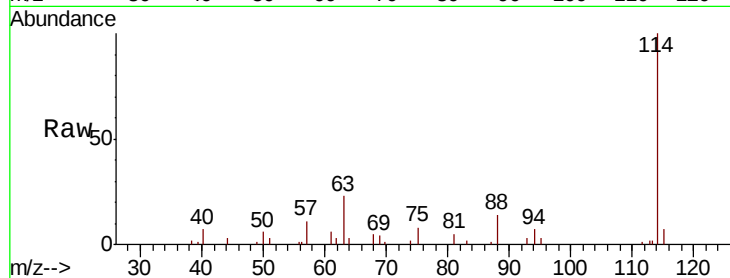
Tot Ion:114 Resp: 13082

Ion Ratio Lower Upper

114 100

63 23.1 0.0 38.0

88 14.3 0.0 28.6

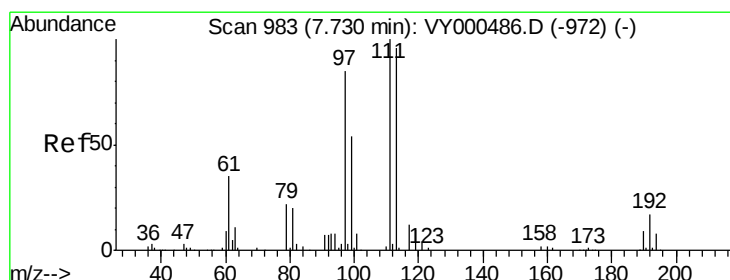
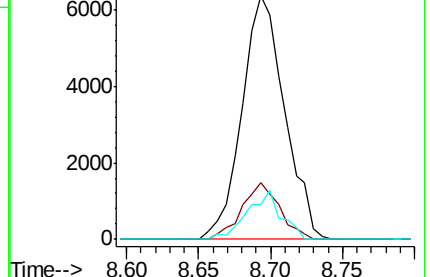
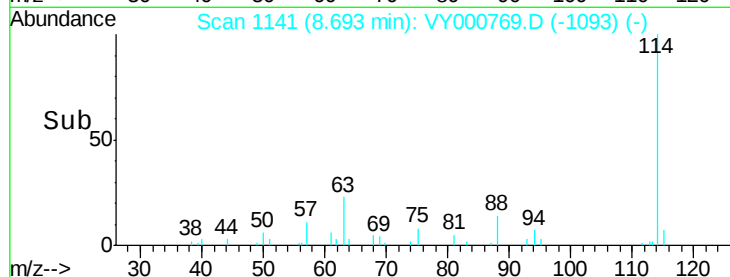


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

8.69



#35

Dibromofluoromethane

Concen: 28.151 ug/l

RT: 7.74 min Scan# 985

Delta R.T. 0.01 min

Lab File: VY000769.D

Acq: 21 Nov 2019 15:42

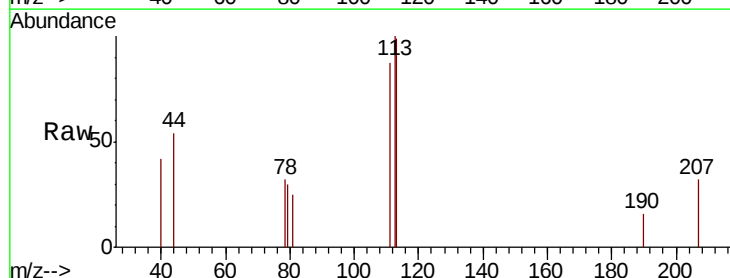
Tgt Ion:113 Resp: 2162

Ion Ratio Lower Upper

113 100

111 102.6 81.7 122.5

192 6.4 15.0 22.4#

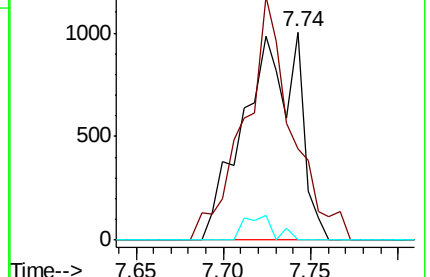
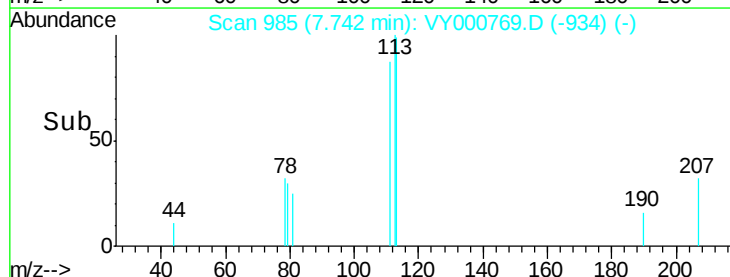


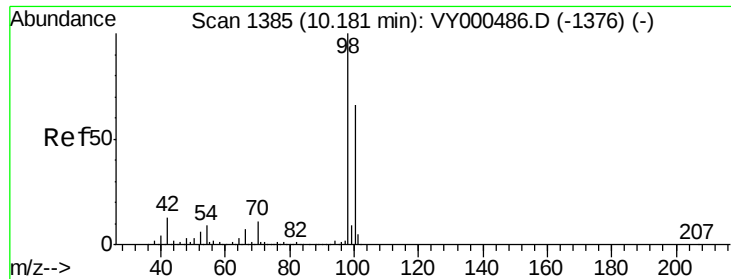
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

7.74





#50

Toluene-d8

Concen: 53.100 ug/l

RT: 10.17 min Scan# 1384

Delta R.T. -0.01 min

Lab File: VY000769.D

Acq: 21 Nov 2019 15:42

Instrument :

MSVOA\_Y

ClientSampleId :

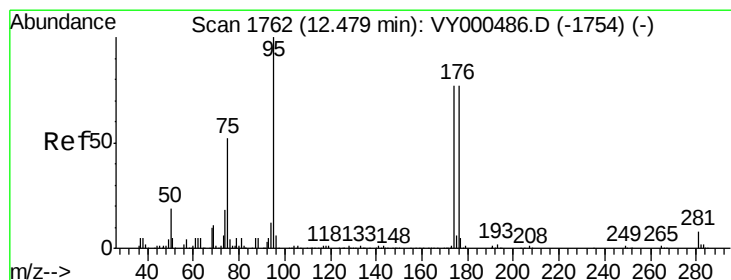
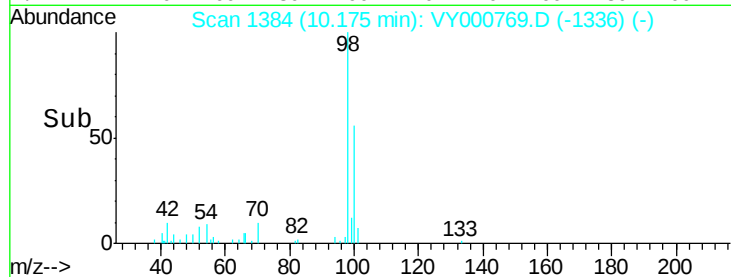
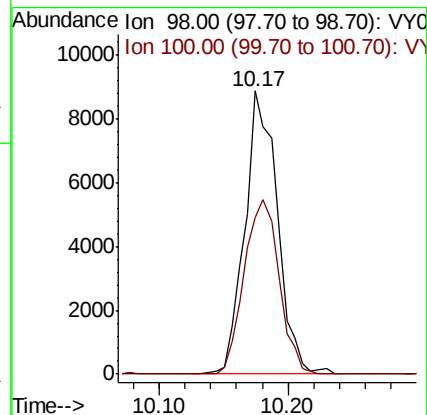
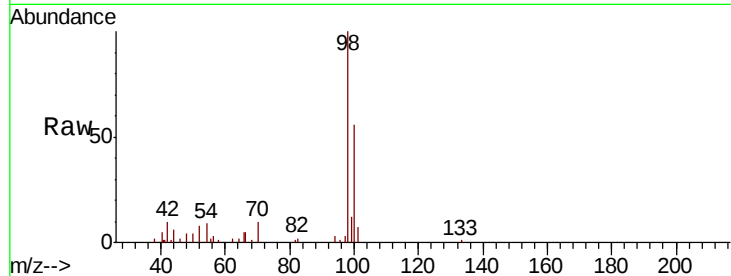
MW-5-(12-14)RE

Tot Ion: 98 Resp: 15474

Ion Ratio Lower Upper

98 100

100 66.3 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 54.011 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. -0.01 min

Lab File: VY000769.D

Acq: 21 Nov 2019 15:42

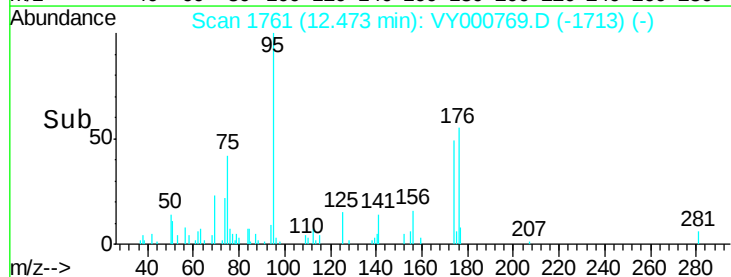
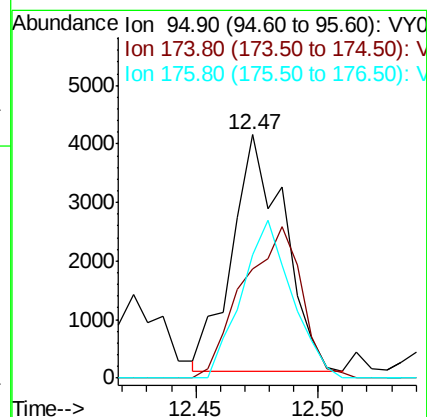
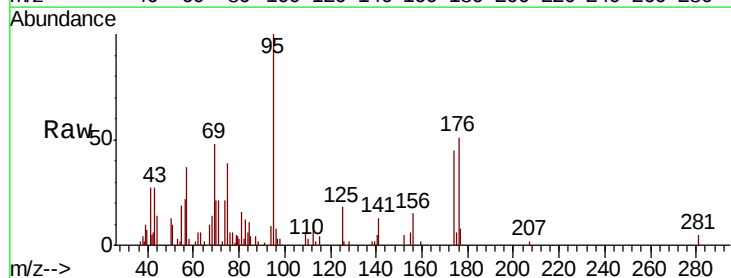
Tgt Ion: 95 Resp: 5992

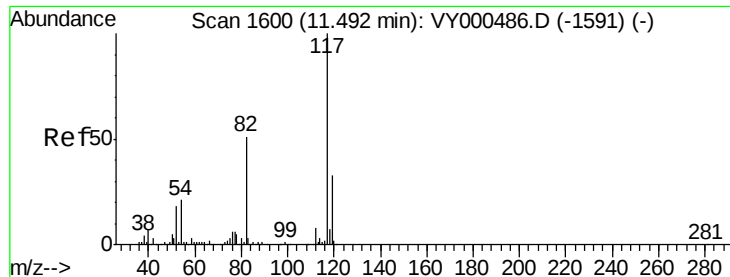
Ion Ratio Lower Upper

95 100

174 72.0 0.0 161.6

176 64.2 0.0 157.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VY000769.D

Acq: 21 Nov 2019 15:42

Instrument :

MSVOA\_Y

ClientSampleId :

MW-5-(12-14)RE

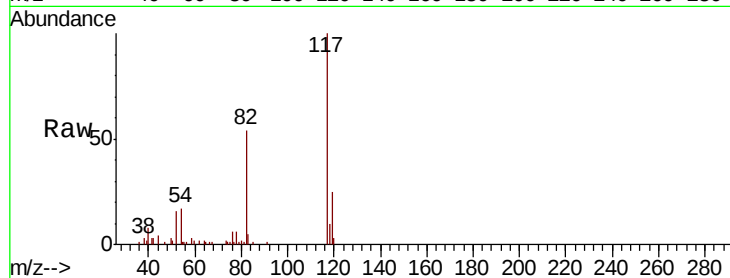
Tot Ion:117 Resp: 13047

Ion Ratio Lower Upper

117 100

82 53.8 40.8 61.2

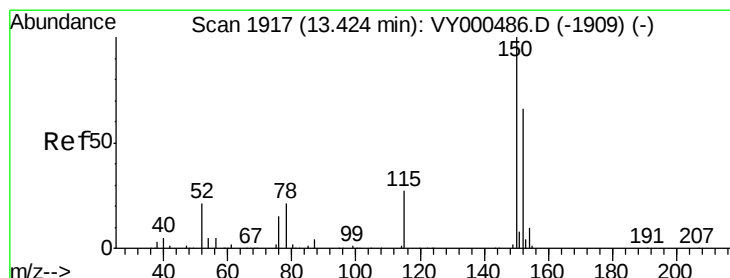
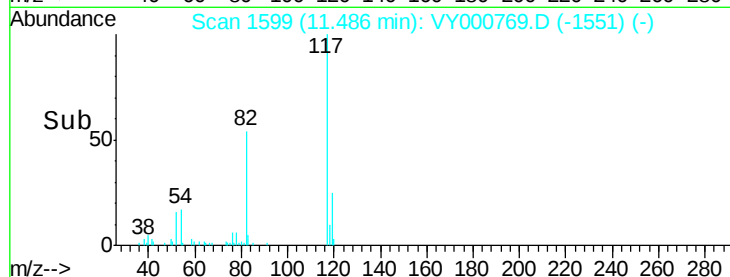
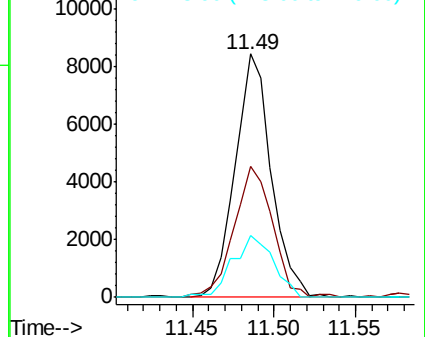
119 25.2 26.2 39.2#



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VY0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VY000769.D

Acq: 21 Nov 2019 15:42

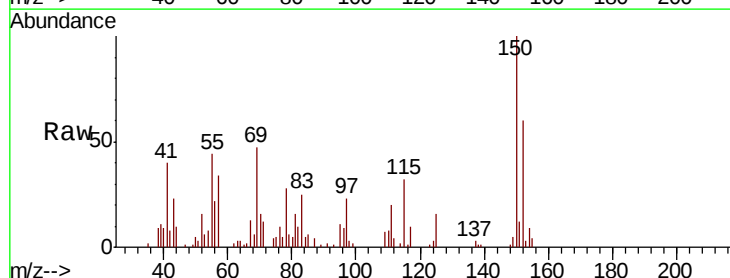
Tgt Ion:152 Resp: 6025

Ion Ratio Lower Upper

152 100

115 64.8 29.1 87.4

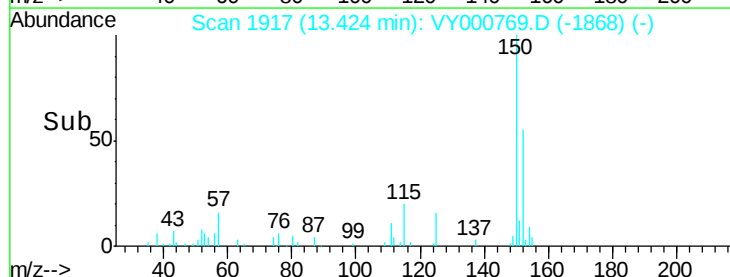
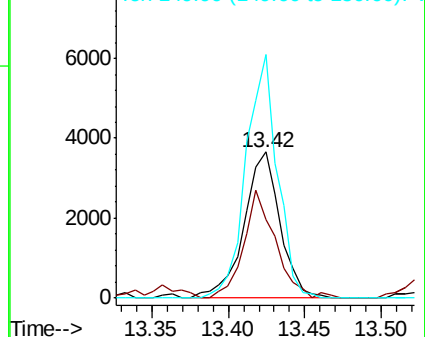
150 144.0 0.0 348.8

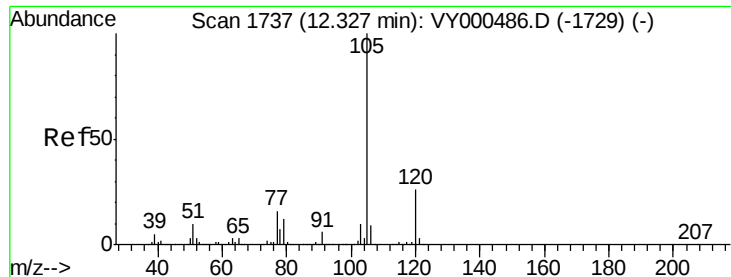


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 5.994 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VY000769.D

Acq: 21 Nov 2019 15:42

Instrument :

MSVOA\_Y

ClientSampleId :

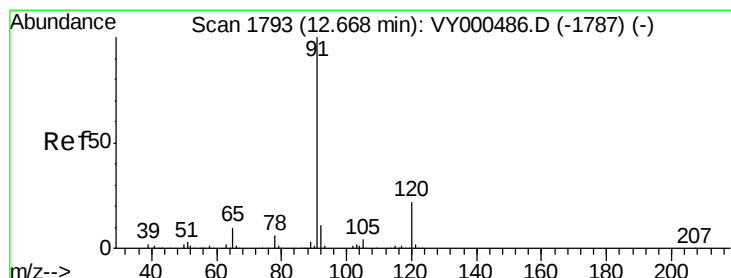
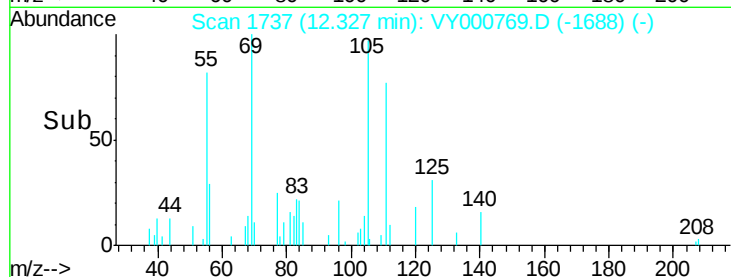
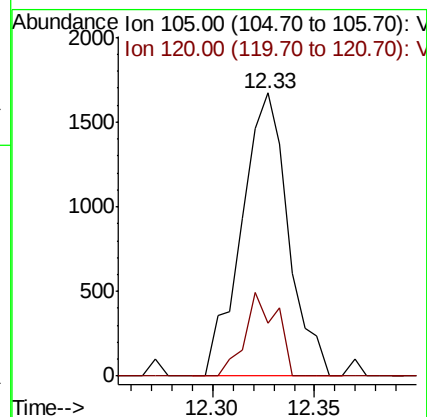
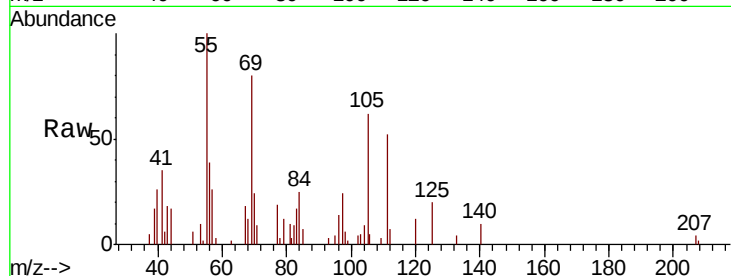
MW-5-(12-14)RE

Tot Ion:105 Resp: 2669

Ion Ratio Lower Upper

105 100

120 20.0 13.5 40.4



#78

n-propylbenzene

Concen: 11.757 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. 0.01 min

Lab File: VY000769.D

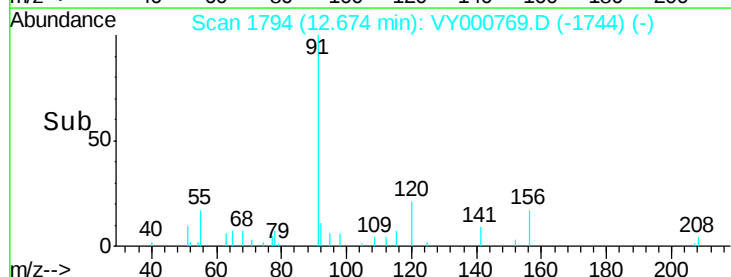
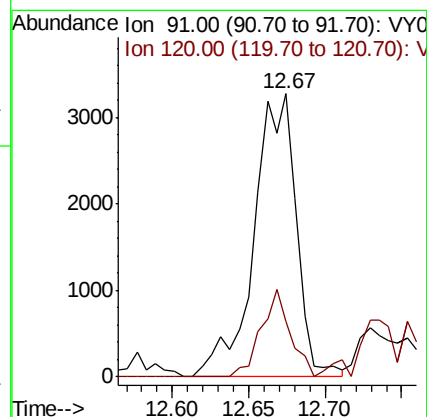
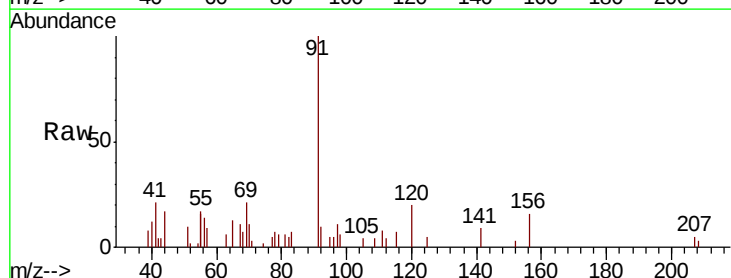
Acq: 21 Nov 2019 15:42

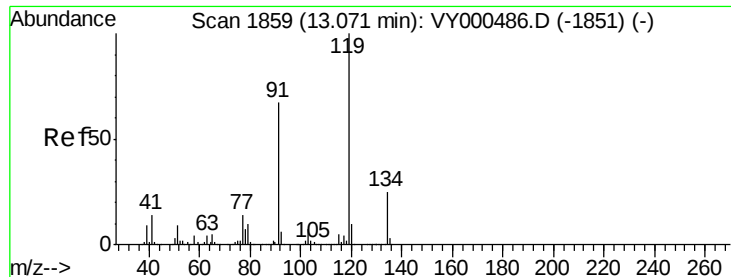
Tgt Ion: 91 Resp: 6317

Ion Ratio Lower Upper

91 100

120 21.3 11.4 34.1





#83

tert-Butylbenzene

Concen: 5.808 ug/l

RT: 13.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VY000769.D

Acq: 21 Nov 2019 15:42

Instrument :

MSVOA\_Y

ClientSampled :

MW-5-(12-14)RE

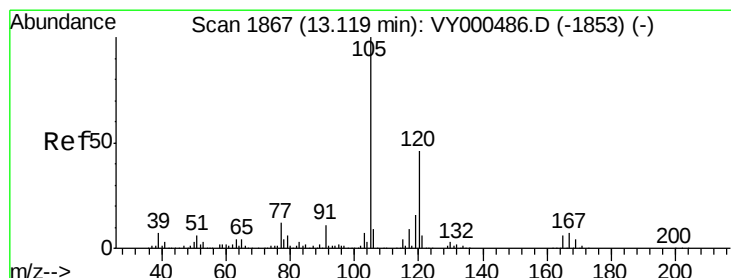
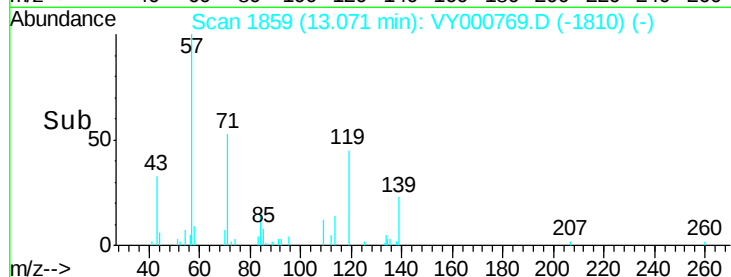
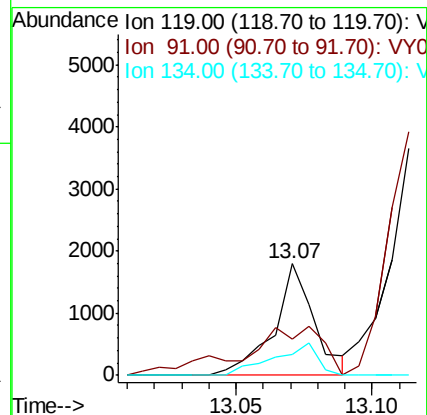
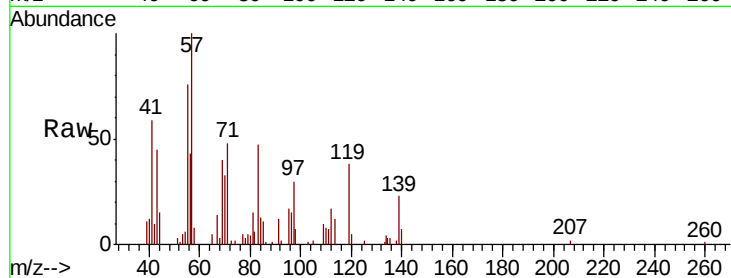
Tot Ion:119 Resp: 1839

Ion Ratio Lower Upper

119 100

91 65.9 32.1 96.3

134 31.6 13.2 39.5



#84

1,2,4-Trimethylbenzene

Concen: 124.887 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VY000769.D

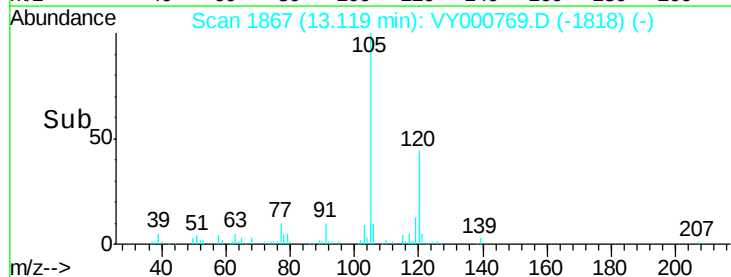
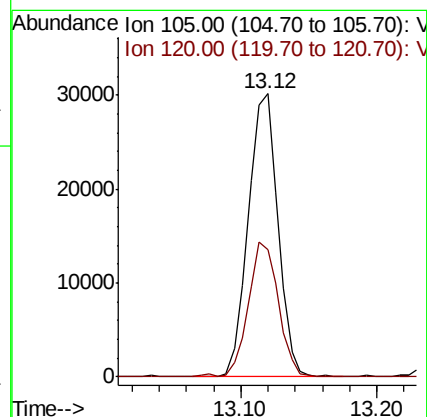
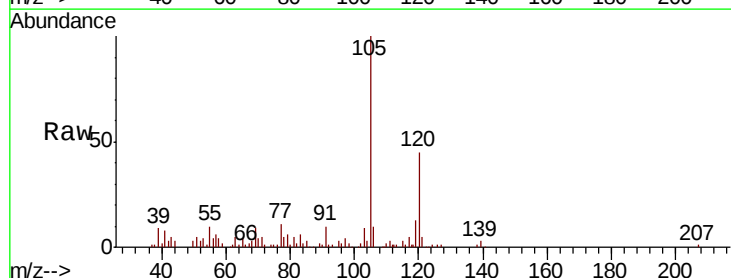
Acq: 21 Nov 2019 15:42

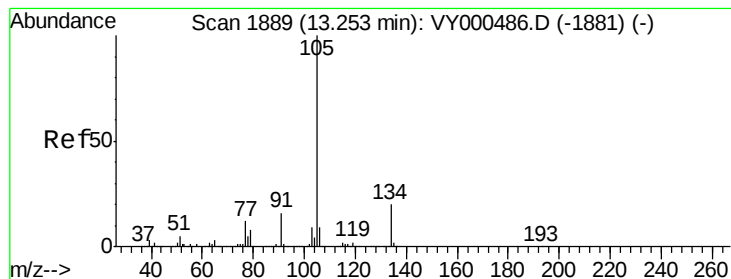
Tgt Ion:105 Resp: 46115

Ion Ratio Lower Upper

105 100

120 48.9 23.3 69.9





#85

sec-Butylbenzene

Concen: 19.315 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VY000769.D

Acq: 21 Nov 2019 15:42

Instrument :

MSVOA\_Y

ClientSampleId :

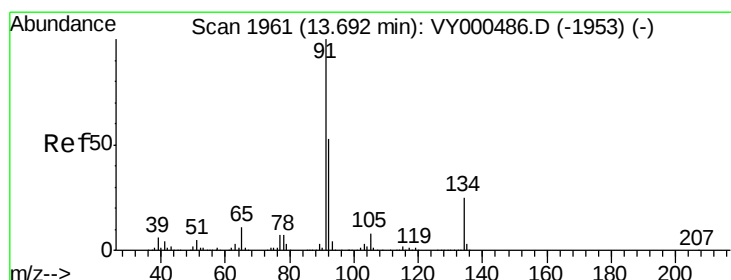
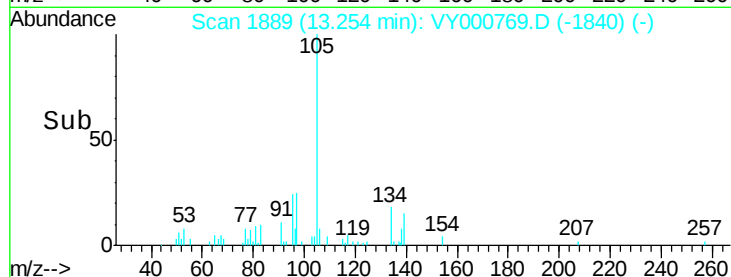
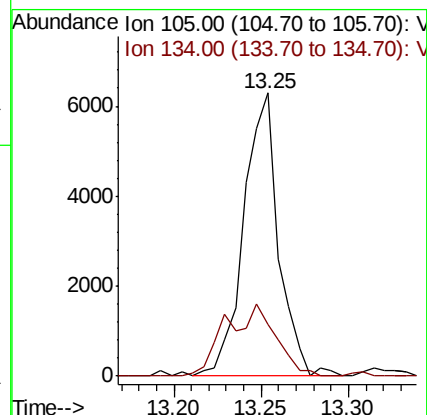
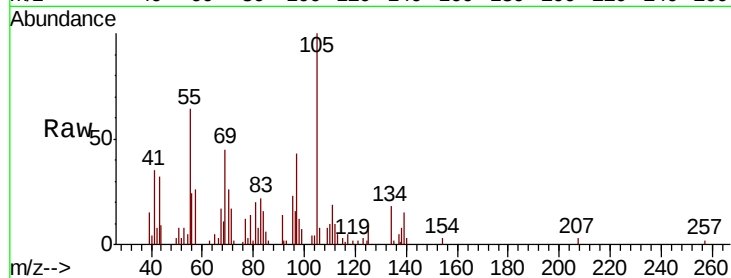
MW-5-(12-14)RE

Tot Ion:105 Resp: 8714

Ion Ratio Lower Upper

105 100

134 36.9 10.1 30.1#



#89

n-Butylbenzene

Concen: 33.121 ug/l

RT: 13.69 min Scan# 1961

Delta R.T. 0.00 min

Lab File: VY000769.D

Acq: 21 Nov 2019 15:42

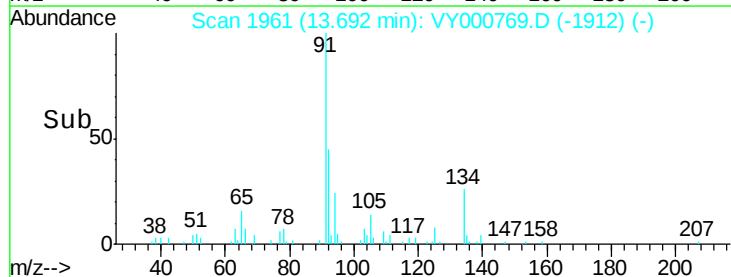
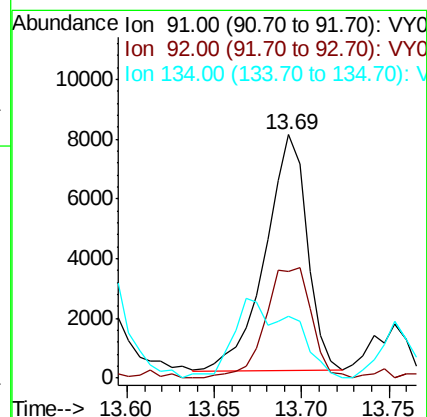
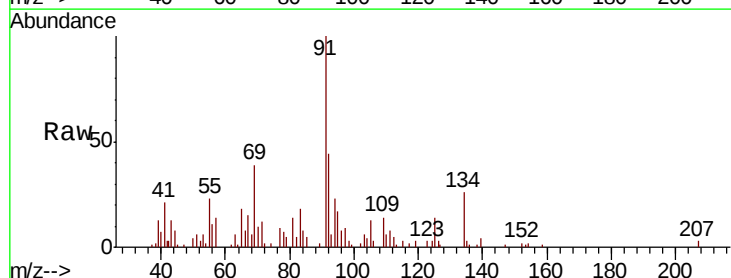
Tgt Ion: 91 Resp: 13135

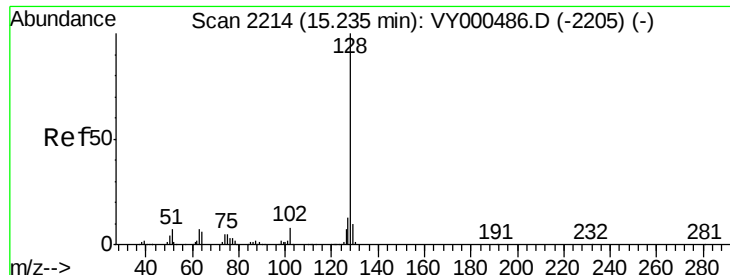
Ion Ratio Lower Upper

91 100

92 51.5 26.8 80.3

134 0.0 12.9 38.7#





#95

Naphthalene

Concen: 9.876 ug/l

RT: 15.23 min Scan# 2213

Delta R.T. -0.01 min

Lab File: VY000769.D

Acq: 21 Nov 2019 15:42

Instrument :

MSVOA\_Y

ClientSampleId :

MW-5-(12-14)RE

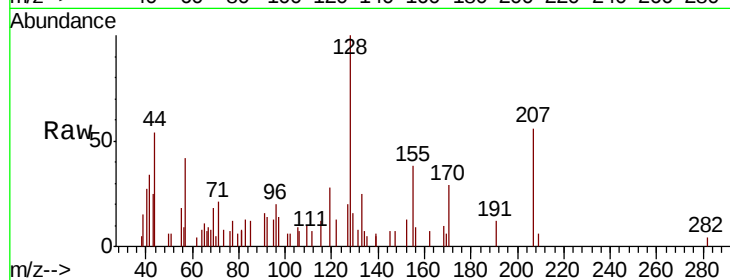
Tot Ion:128 Resp: 2679

Ion Ratio Lower Upper

128 100

127 22.8 9.8 14.6#

129 11.2 8.7 13.1



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

