

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\  
 Data File : VU034330.D  
 Acq On : 06 Sep 2019 15:01  
 Operator : JC/SP  
 Sample : K4689-03DL 50X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-4ADL

Quant Time: Sep 06 16:44:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U090619W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 06 05:10:13 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.96  | 168  | 310179   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.87  | 114  | 463360   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.07  | 117  | 453241   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 290527   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.29  | 65   | 233699   | 49.80 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.60% |          |
| 35) Dibromofluoromethane    | 4.86  | 113  | 205021   | 47.55 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.10% |          |
| 50) Toluene-d8              | 7.55  | 98   | 795319   | 49.10 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.20% |          |
| 62) 4-Bromofluorobenzene    | 10.29 | 95   | 291580   | 46.62 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.24% |          |

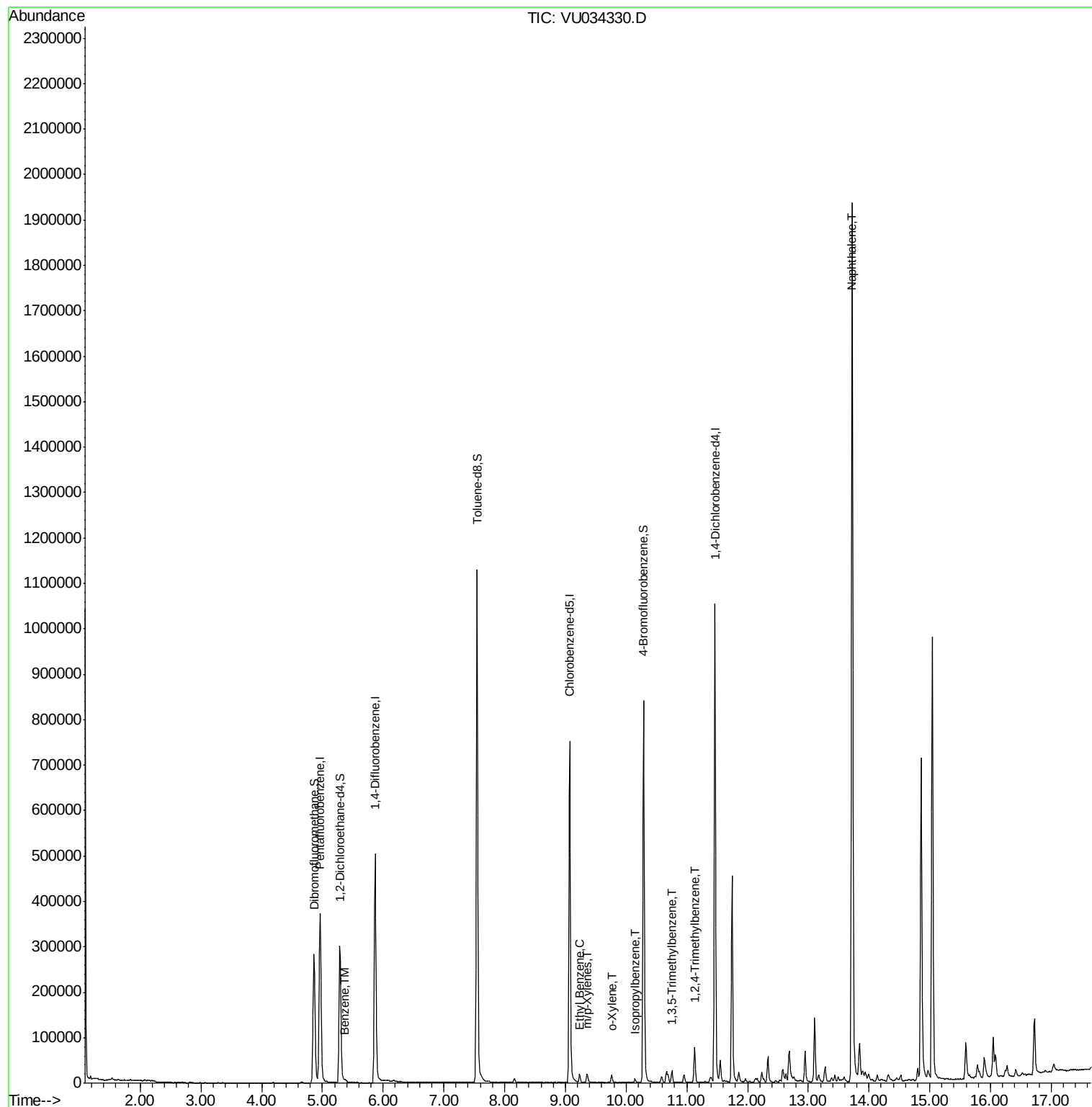
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 40) Benzene                | 5.38  | 78   | 4376     | 0.270  | ug/l  | 96     |
| 67) Ethyl Benzene          | 9.23  | 91   | 14683    | 0.781  | ug/l  | 95     |
| 68) m/p-Xylenes            | 9.36  | 106  | 6767     | 0.956  | ug/l  | 100    |
| 69) o-Xylene               | 9.76  | 106  | 4988     | 0.720  | ug/l  | 90     |
| 73) Isopropylbenzene       | 10.15 | 105  | 5871     | 0.311  | ug/l  | 98     |
| 80) 1,3,5-Trimethylbenzene | 10.76 | 105  | 15511    | 0.981  | ug/l  | 97     |
| 84) 1,2,4-Trimethylbenzene | 11.13 | 105  | 44445    | 2.792  | ug/l  | 99     |
| 95) Naphthalene            | 13.72 | 128  | 1620292  | 81.008 | ug/l  | 99     |

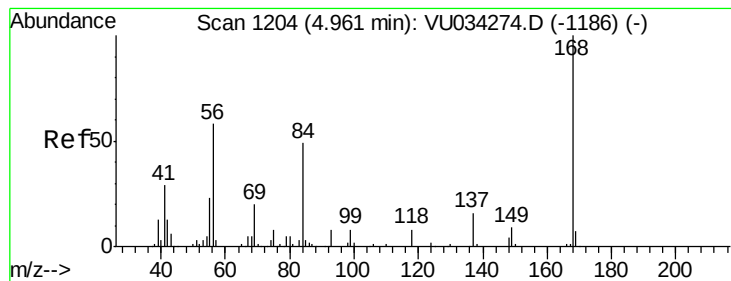
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MW-4ADL

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U090619W.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 06 05:10:13 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034330.D

Acq: 06 Sep 2019 15:01

Instrument :

MSVOA\_U

ClientSampleId :

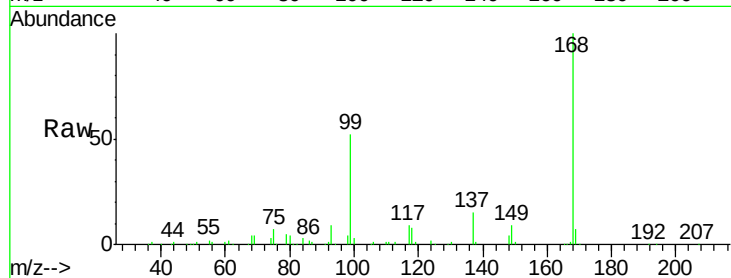
MW-4ADL

Tot Ion:168 Resp: 310179

Ion Ratio Lower Upper

168 100

99 52.4 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

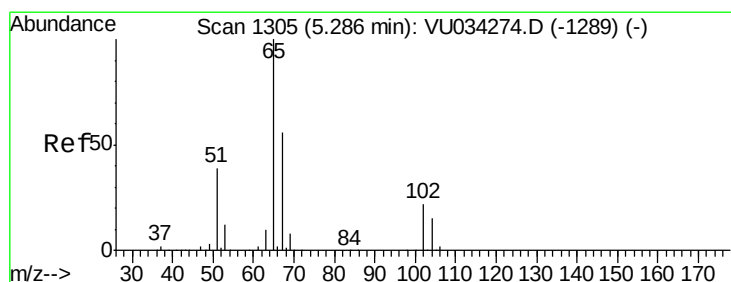
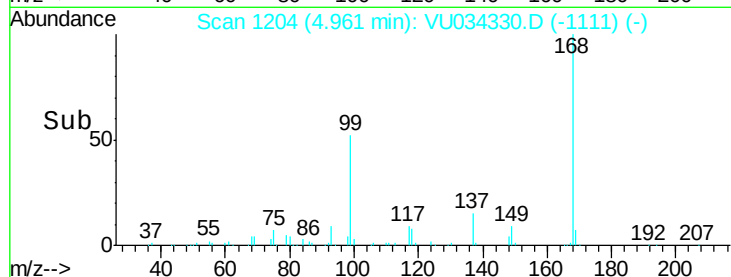
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 49.796 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034330.D

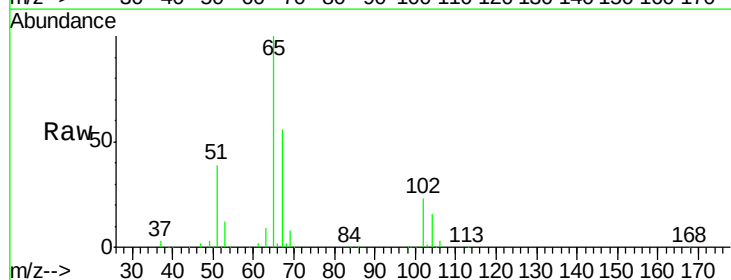
Acq: 06 Sep 2019 15:01

Tgt Ion: 65 Resp: 233699

Ion Ratio Lower Upper

65 100

67 56.7 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034274.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034274.D (-1289) (-)

5.29

120000

100000

80000

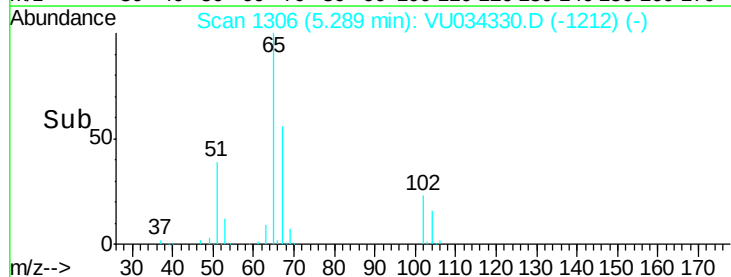
60000

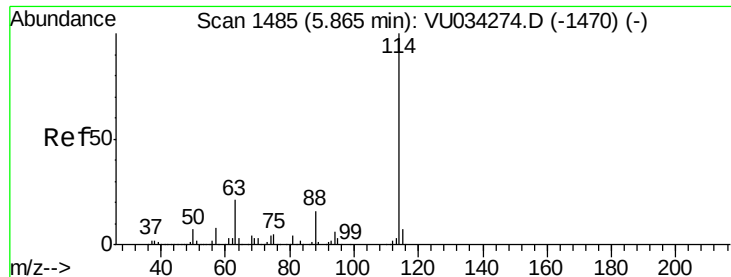
40000

20000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034330.D

Acq: 06 Sep 2019 15:01

Instrument :

MSVOA\_U

ClientSampleId :

MW-4ADL

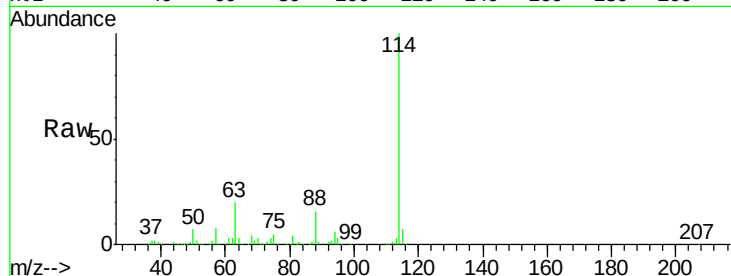
Tot Ion:114 Resp: 463360

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.4

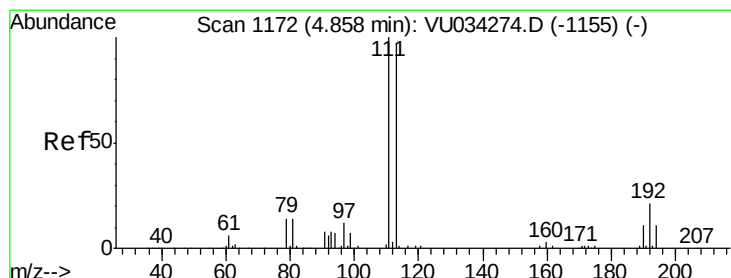
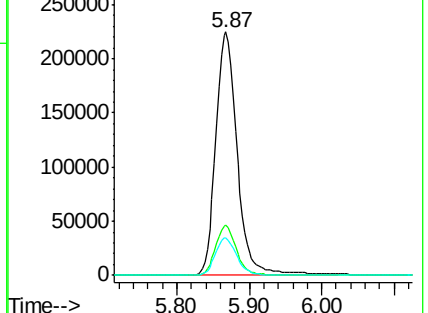
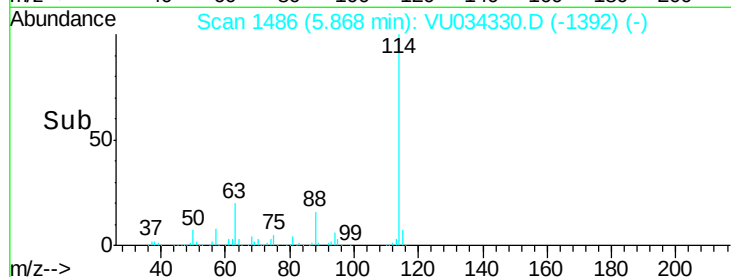
88 15.5 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 47.551 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034330.D

Acq: 06 Sep 2019 15:01

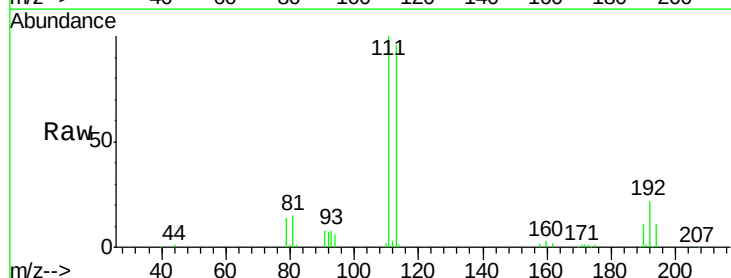
Tgt Ion:113 Resp: 205021

Ion Ratio Lower Upper

113 100

111 103.0 81.5 122.3

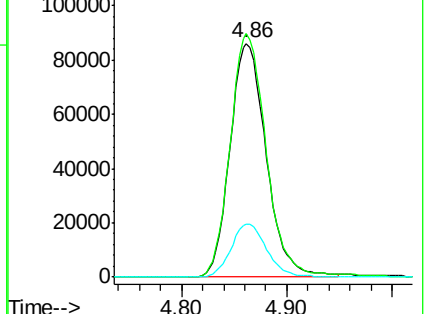
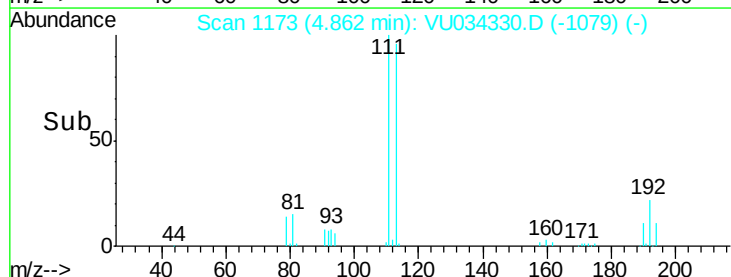
192 22.5 17.8 26.8

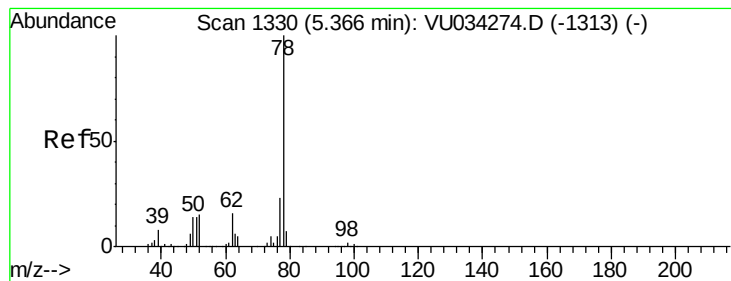


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 0.270 ug/l

RT: 5.38 min Scan# 1333

Delta R.T. 0.01 min

Lab File: VU034330.D

Acq: 06 Sep 2019 15:01

Instrument :

MSVOA\_U

ClientSampleId :

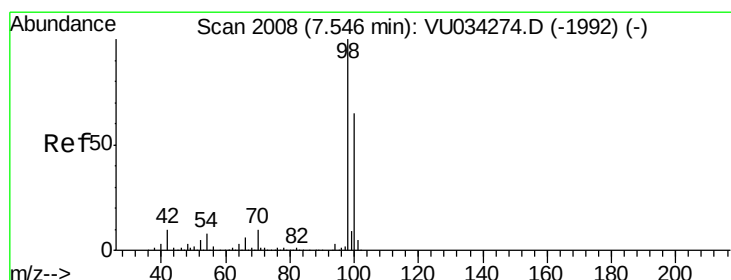
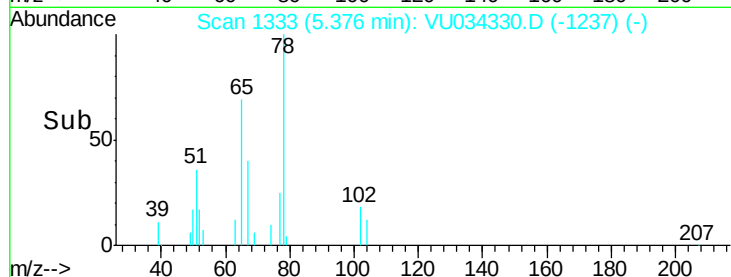
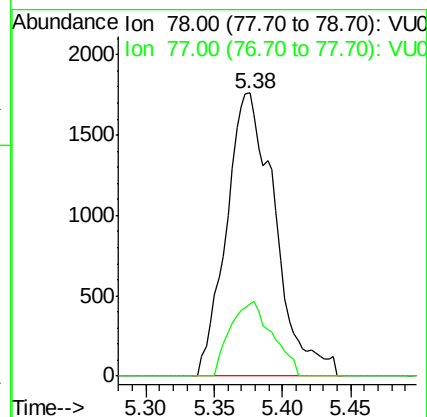
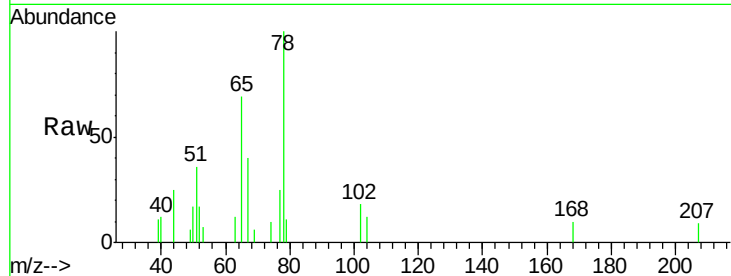
MW-4ADL

Tot Ion: 78 Resp: 4376

Ion Ratio Lower Upper

78 100

77 25.4 18.7 28.1



#50

Toluene-d8

Concen: 49.098 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034330.D

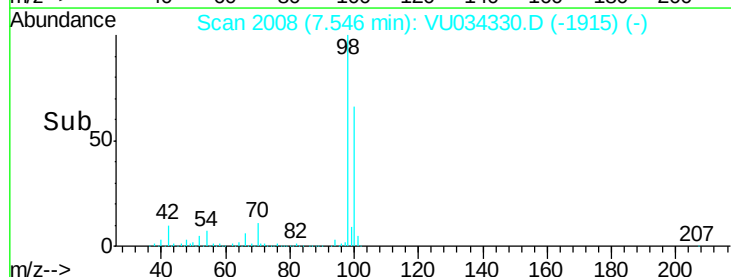
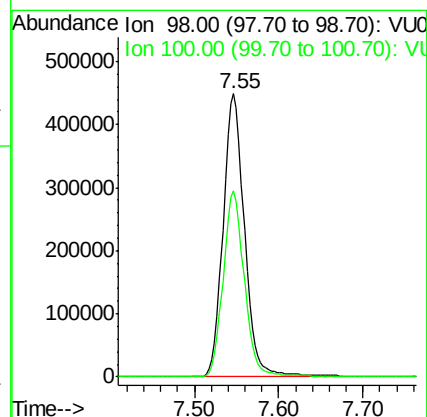
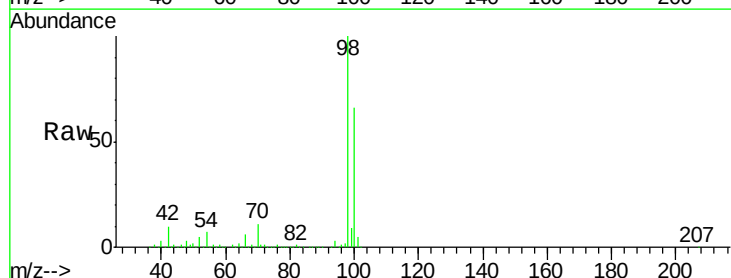
Acq: 06 Sep 2019 15:01

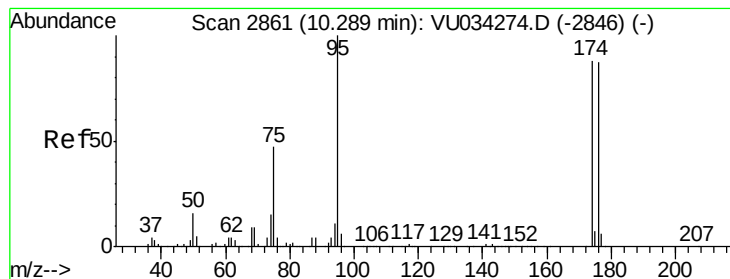
Tgt Ion: 98 Resp: 795319

Ion Ratio Lower Upper

98 100

100 65.1 51.7 77.5





#62

4-Bromofluorobenzene

Concen: 46.621 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034330.D

Acq: 06 Sep 2019 15:01

Instrument :

MSVOA\_U

ClientSampleId :

MW-4ADL

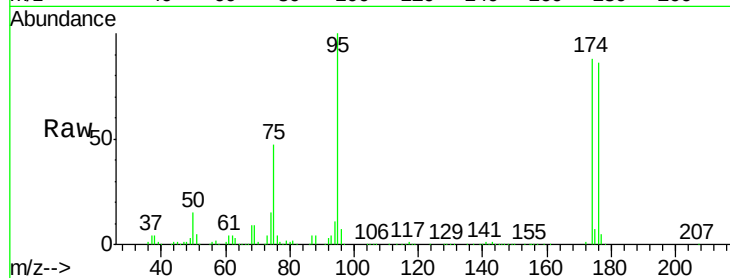
Tot Ion: 95 Resp: 291580

Ion Ratio Lower Upper

95 100

174 87.8 0.0 175.2

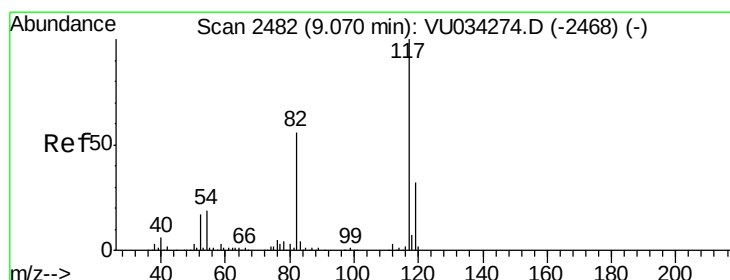
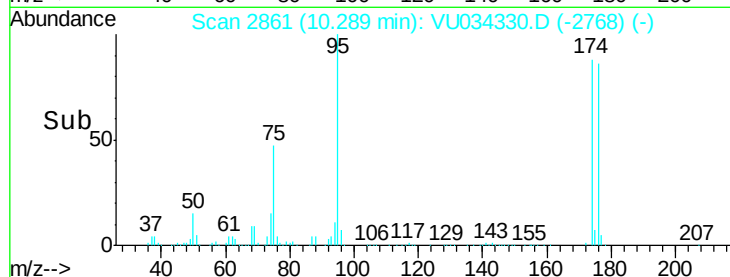
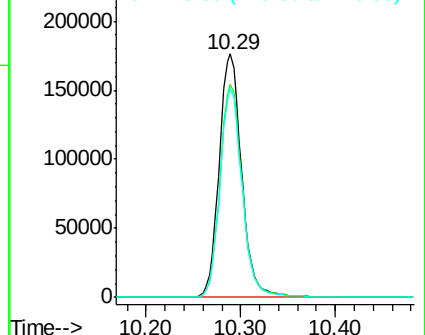
176 84.9 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): VU0

Ion 175.80 (175.50 to 176.50): VU0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. -0.00 min

Lab File: VU034330.D

Acq: 06 Sep 2019 15:01

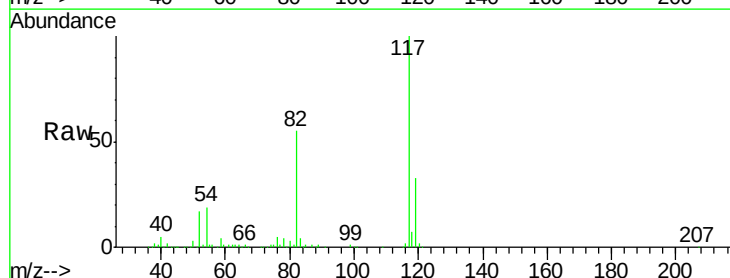
Tgt Ion: 117 Resp: 453241

Ion Ratio Lower Upper

117 100

82 55.3 44.6 67.0

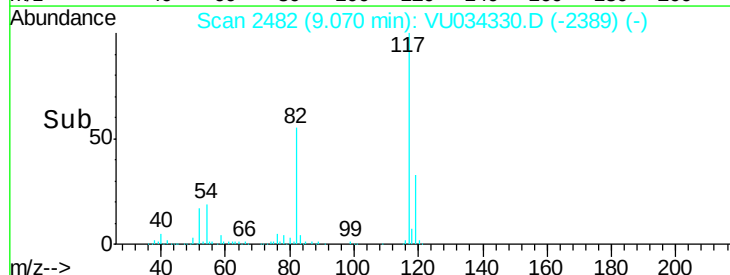
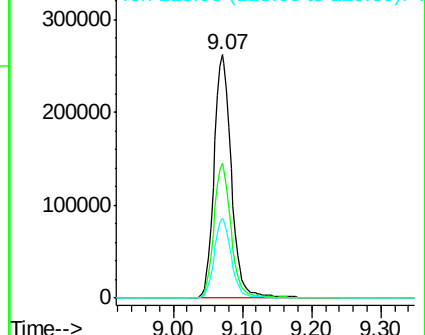
119 32.9 25.9 38.9

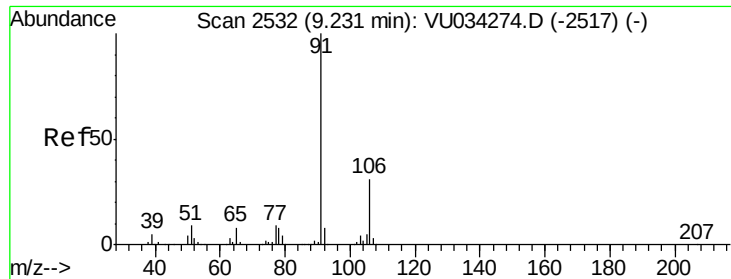


Abundance Ion 116.90 (116.60 to 117.60): VU0

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): VU0

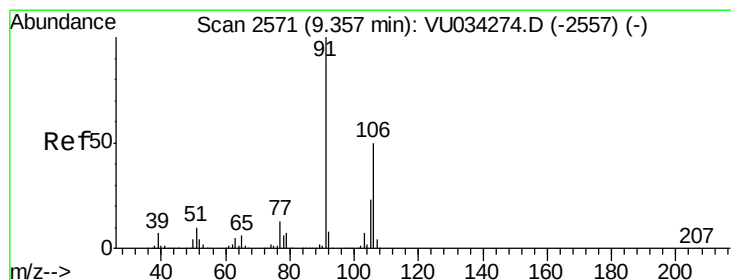
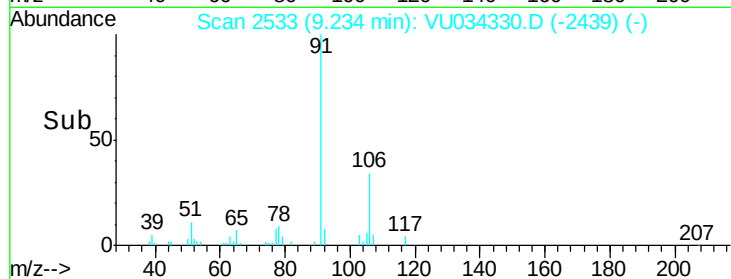
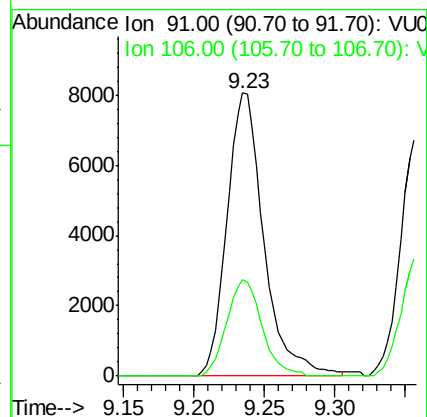
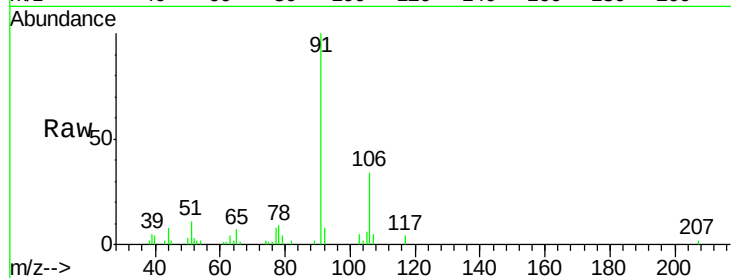




#67  
Ethyl Benzene  
Concen: 0.781 ug/l  
RT: 9.23 min Scan# 2533  
Delta R.T. 0.00 min  
Lab File: VU034330.D  
Acq: 06 Sep 2019 15:01

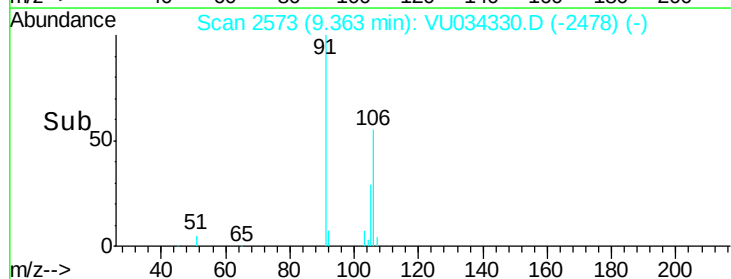
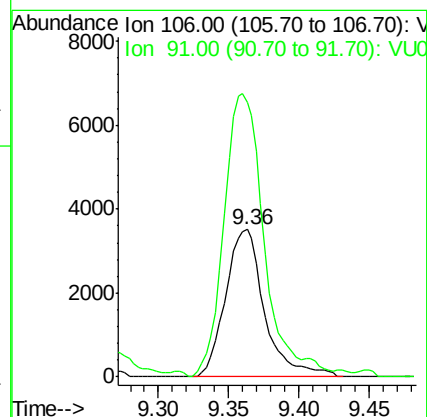
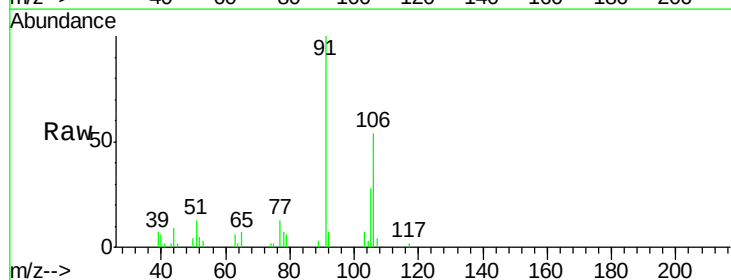
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-4ADL

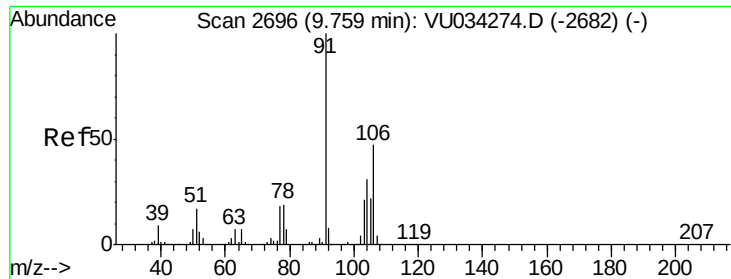
Tot Ion: 91 Resp: 14683  
Ion Ratio Lower Upper  
91 100  
106 33.9 24.8 37.2



#68  
m/p-Xylenes  
Concen: 0.956 ug/l  
RT: 9.36 min Scan# 2573  
Delta R.T. 0.01 min  
Lab File: VU034330.D  
Acq: 06 Sep 2019 15:01

Tgt Ion: 106 Resp: 6767  
Ion Ratio Lower Upper  
106 100  
91 200.3 160.1 240.1

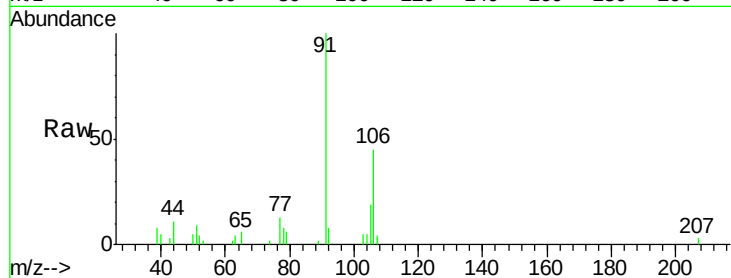




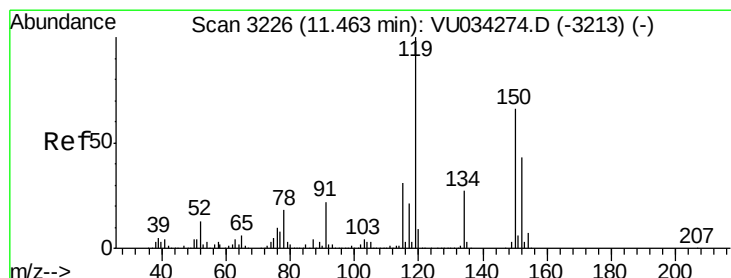
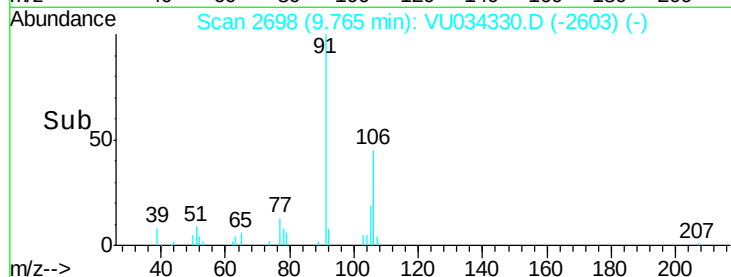
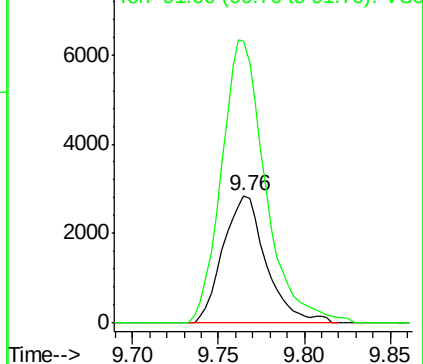
#69  
o-Xylene  
Concen: 0.720 ug/l  
RT: 9.76 min Scan# 2698  
Delta R.T. 0.01 min  
Lab File: VU034330.D  
Acq: 06 Sep 2019 15:01

Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-4ADL

Tot Ion:106 Resp: 4988  
Ion Ratio Lower Upper  
106 100  
91 226.4 105.1 315.3

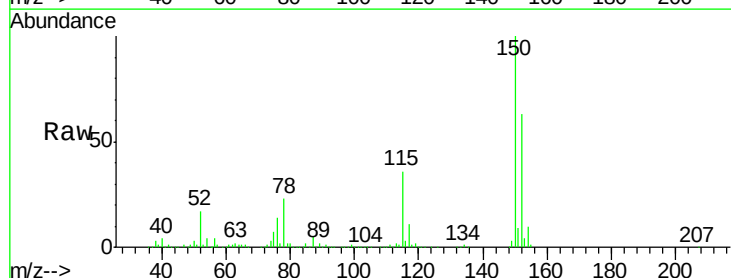


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VU0

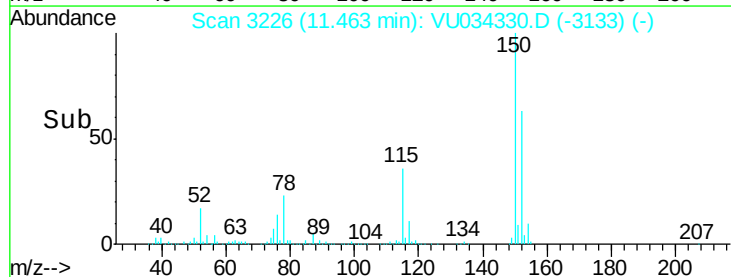
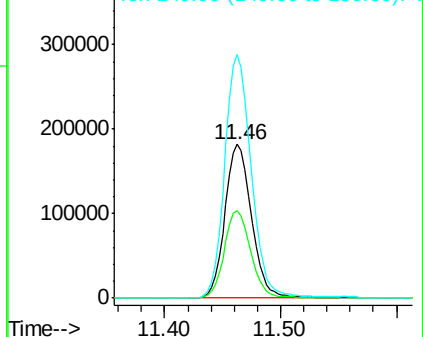


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.46 min Scan# 3226  
Delta R.T. -0.00 min  
Lab File: VU034330.D  
Acq: 06 Sep 2019 15:01

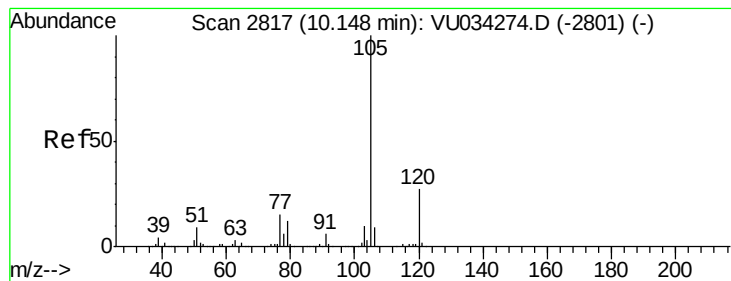
Tgt Ion:152 Resp: 290527  
Ion Ratio Lower Upper  
152 100  
115 56.3 39.1 117.3  
150 157.8 0.0 345.4



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: 0.311 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. -0.00 min

Lab File: VU034330.D

Acq: 06 Sep 2019 15:01

Instrument :

MSVOA\_U

ClientSampleId :

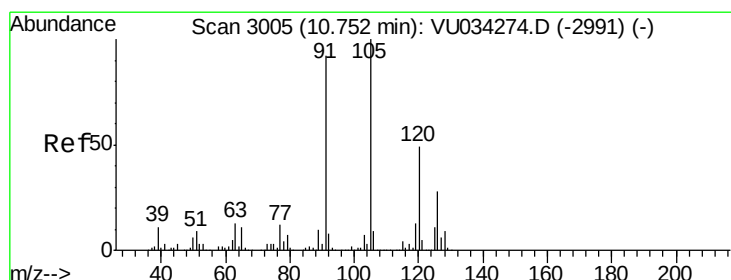
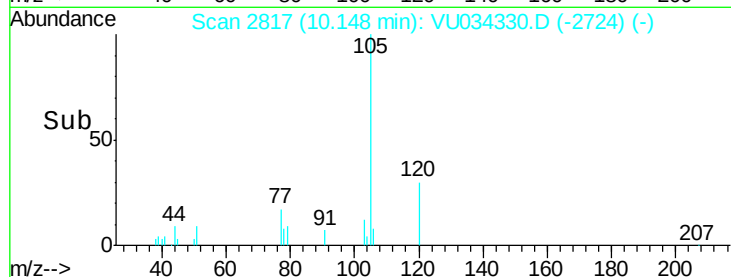
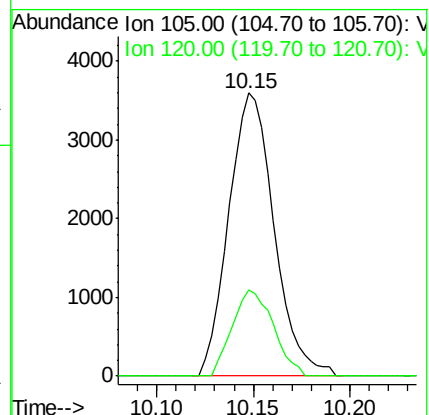
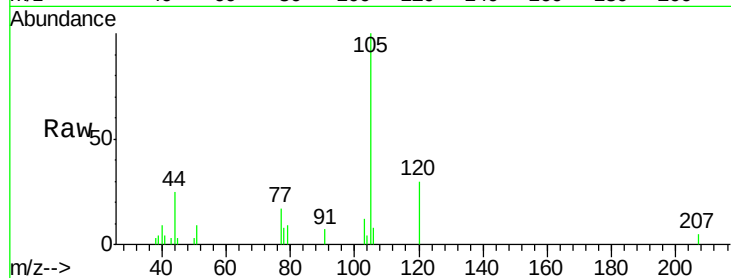
MW-4ADL

Tot Ion:105 Resp: 5871

Ion Ratio Lower Upper

105 100

120 27.6 13.4 40.2



#80

1,3,5-Trimethylbenzene

Concen: 0.981 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU034330.D

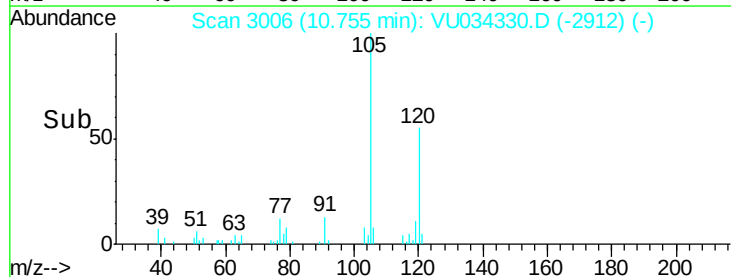
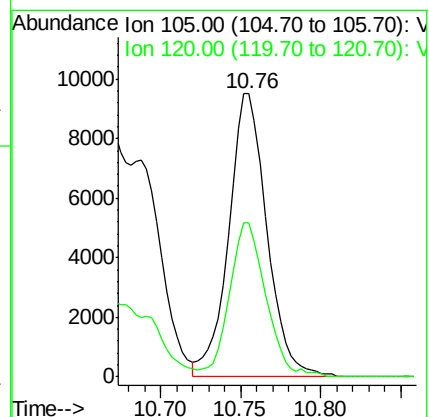
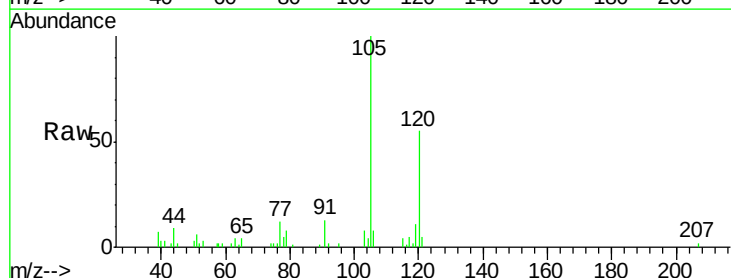
Acq: 06 Sep 2019 15:01

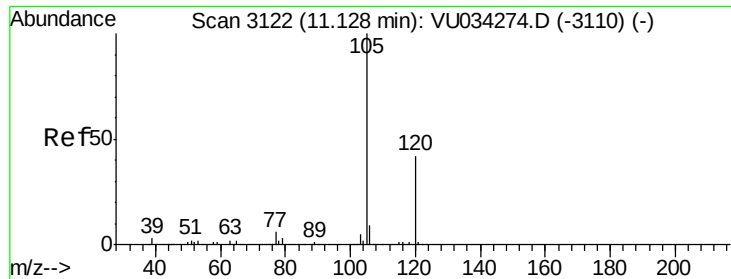
Tgt Ion:105 Resp: 15511

Ion Ratio Lower Upper

105 100

120 51.9 24.9 74.7





#84

1,2,4-Trimethylbenzene

Concen: 2.792 ug/l

RT: 11.13 min Scan# 3123

Delta R.T. 0.00 min

Lab File: VU034330.D

Acq: 06 Sep 2019 15:01

Instrument :

MSVOA\_U

ClientSampleId :

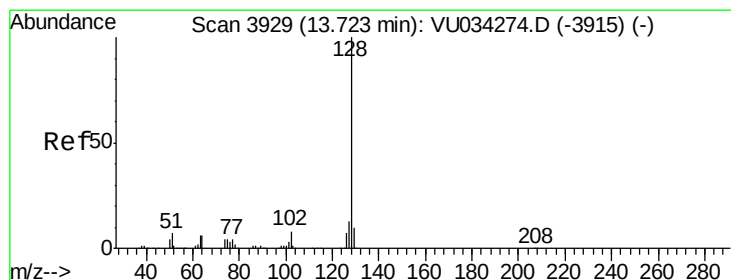
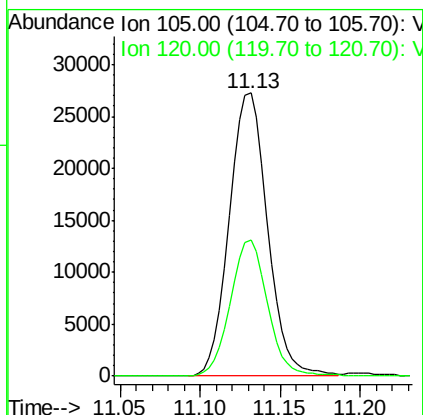
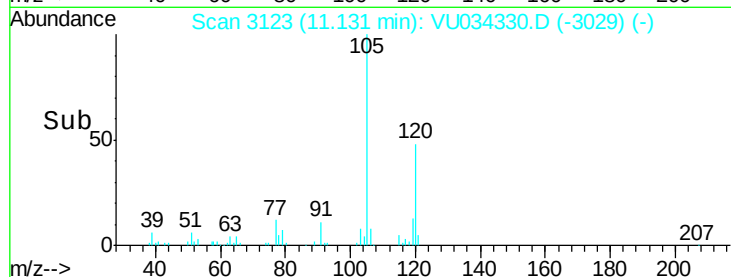
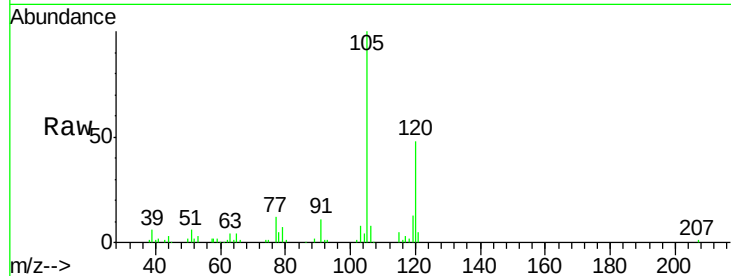
MW-4ADL

Tot Ion:105 Resp: 44445

Ion Ratio Lower Upper

105 100

120 46.8 22.9 68.8



#95

Naphthalene

Concen: 81.008 ug/l

RT: 13.72 min Scan# 3929

Delta R.T. -0.00 min

Lab File: VU034330.D

Acq: 06 Sep 2019 15:01

Tgt Ion:128 Resp: 1620292

Ion Ratio Lower Upper

128 100

127 12.8 10.6 15.8

129 10.9 8.4 12.6

