

Data Path : W:\HPCHEM1\MSVOA U\DATA\VU050718\  
 Data File : VU023715.D  
 Acq On : 07 May 2018 15:02  
 Operator : MD/SY  
 Sample : J2725-03  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 08 04:57:32 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_U\METHOD\SOMULM050118WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue May 08 04:32:26 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 353954   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 339224   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 185964   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 93727    | 37.36    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 74.72%   |
| 7) Chloroethane-d5             | 1.68    | 69    | 80219    | 41.95    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 83.90%   |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 142565   | 29.15    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 58.30%#  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 269761   | 155.64   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 155.64%# |
| 24) Chloroform-d               | 4.65    | 84    | 186658   | 44.99    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.98%   |
| 26) 1,2-Dichloroethane-d4      | 5.32    | 65    | 131650   | 45.63    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.26%   |
| 32) Benzene-d6                 | 5.35    | 84    | 403755   | 44.36    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.72%   |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 137588   | 45.13    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 90.26%   |
| 41) Toluene-d8                 | 7.57    | 98    | 364443   | 43.43    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.86%   |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 57077    | 43.49    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 86.98%   |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 204122   | 176.32   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 176.32%# |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 207090   | 52.52    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 105.04%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.87   | 152   | 162159   | 44.70    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.40%   |

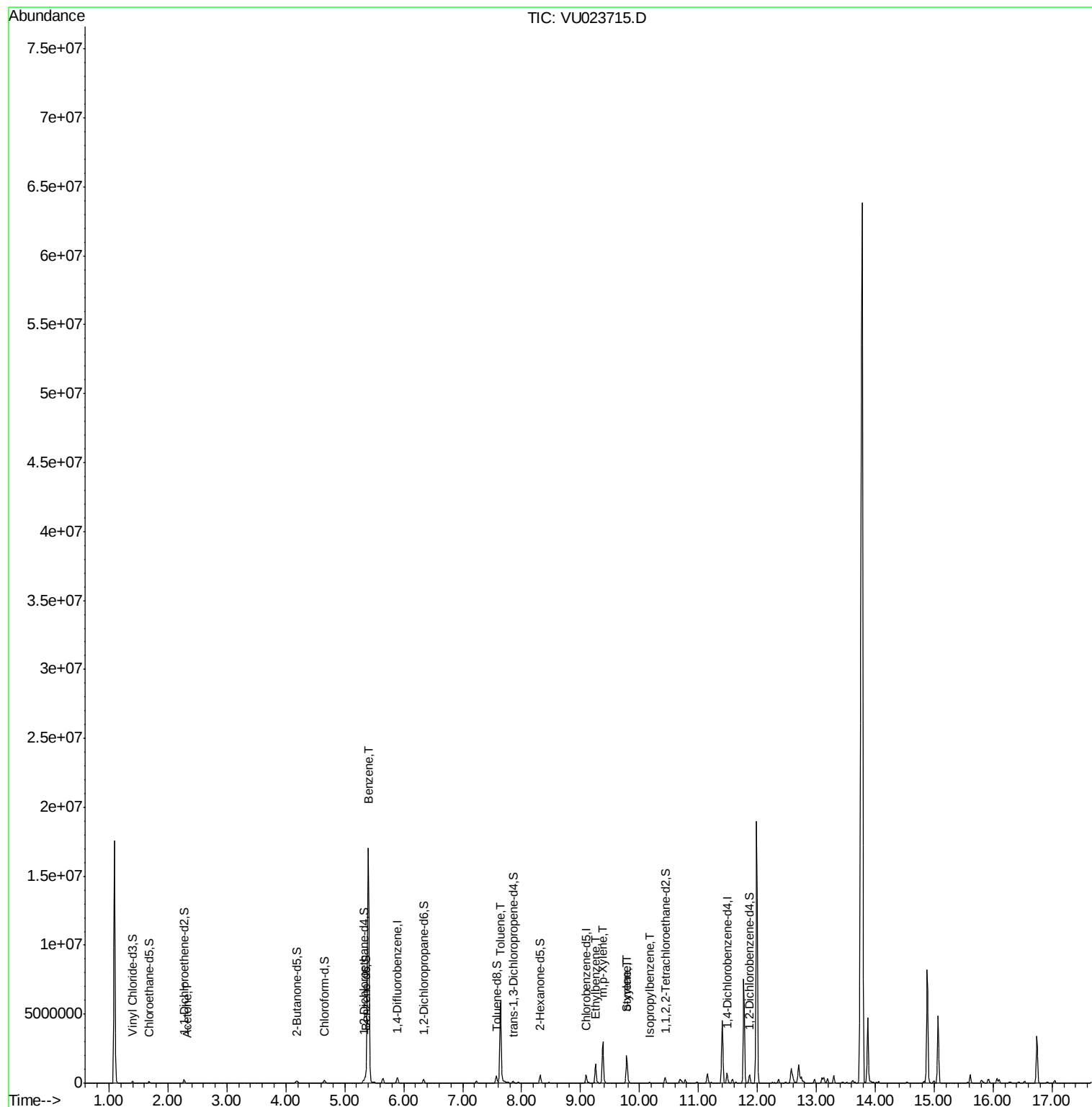
## Target Compounds

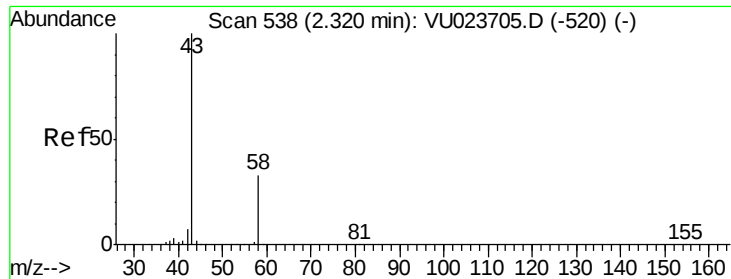
|                      |       |     |          |         |        | Ovalue |
|----------------------|-------|-----|----------|---------|--------|--------|
| 13) Acetone          | 2.32  | 43  | 16625    | 6.46    | ug/L   | 98     |
| 33) Benzene          | 5.40  | 78  | 16611101 | 1389.61 | ug/L   | 100    |
| 42) Toluene          | 7.64  | 91  | 4570361  | 368.88  | ug/L   | 99     |
| 52) Ethylbenzene     | 9.26  | 91  | 1020420  | 75.98   | ug/L   | 100    |
| 53) m,p-Xylene       | 9.38  | 106 | 851195   | 166.16  | ug/L   | 98     |
| 54) o-xylene         | 9.78  | 106 | 501654   | 103.36  | ug/L   | 100    |
| 55) Styrene          | 9.80  | 104 | 169582   | 19.97   | ug/L # | 77     |
| 56) Isopropylbenzene | 10.17 | 105 | 33187    | 2.61    | ug/L   | 99     |

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

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#13

Acetone

Concen: 6.46 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU023715.D

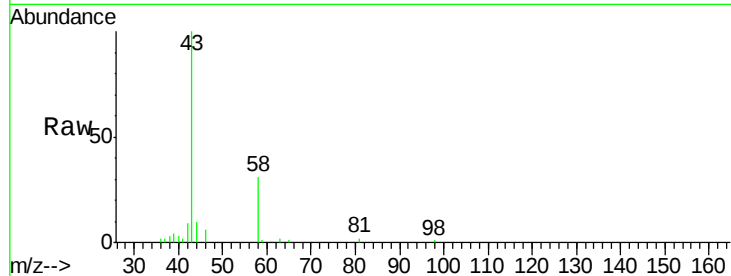
Acq: 07 May 2018 15:02

Tot Ion: 43 Resp: 16625

Ion Ratio Lower Upper

43 100

58 31.4 0.0 64.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

12000

10000

8000

6000

4000

2000

0

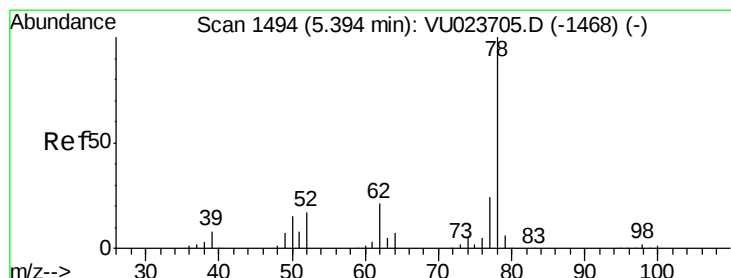
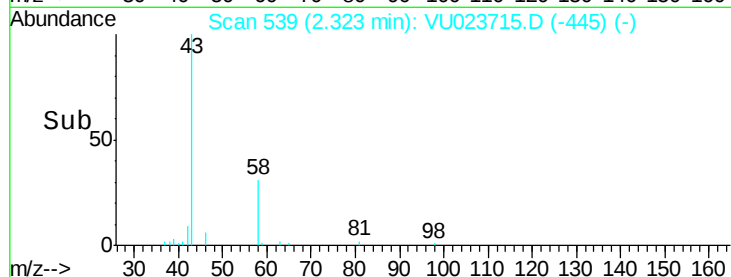
Time-->

2.25

2.30

2.35

2.40



#33

Benzene

Concen: 1389.61 ug/L

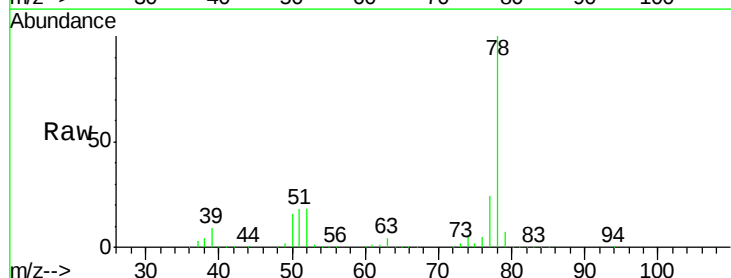
RT: 5.40 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VU023715.D

Acq: 07 May 2018 15:02

Tgt Ion: 78 Resp:16611101



Abundance Ion 78.00 (77.70 to 78.70): VU0

8000000

6000000

4000000

2000000

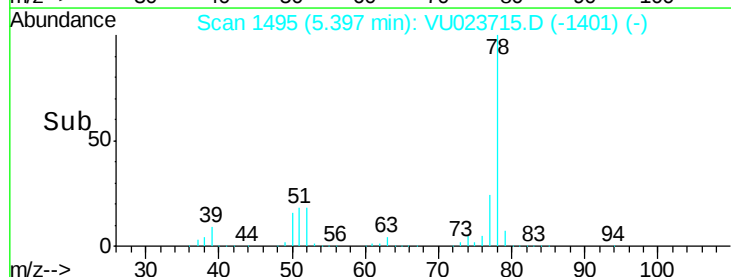
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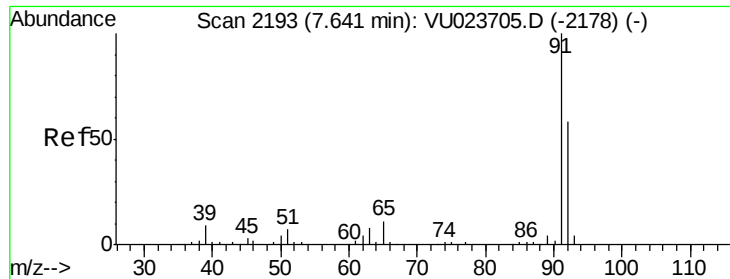
Time-->

5.20

5.40

5.60





#42

Toluene

Concen: 368.88 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU023715.D

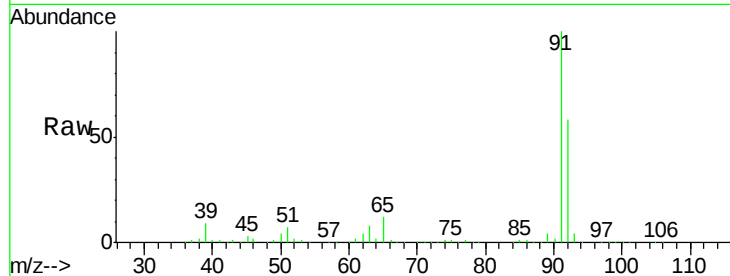
Acq: 07 May 2018 15:02

Tot Ion: 91 Resp: 4570361

Ion Ratio Lower Upper

91 100

92 58.5 40.3 74.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.64

2500000

2000000

1500000

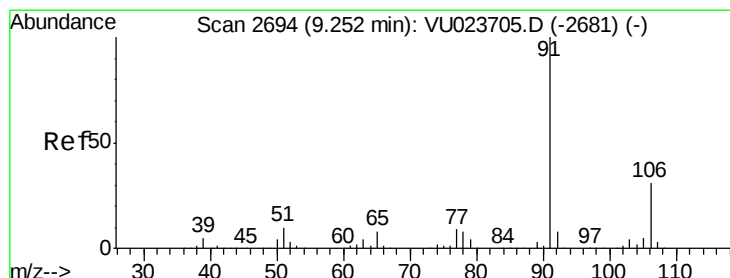
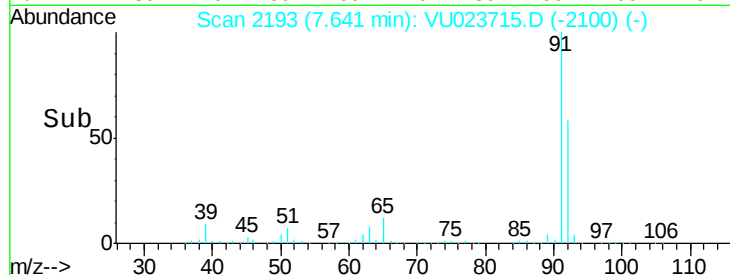
1000000

500000

0

Time-->

7.60 7.80



#52

Ethylbenzene

Concen: 75.98 ug/L

RT: 9.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU023715.D

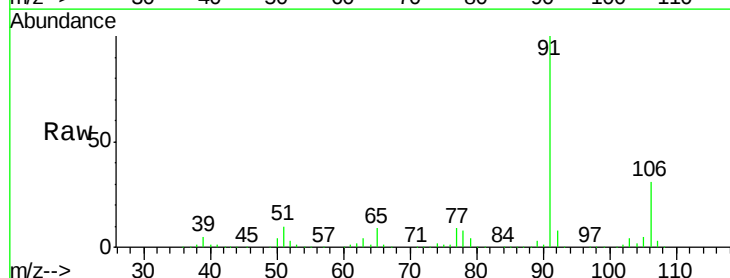
Acq: 07 May 2018 15:02

Tgt Ion: 91 Resp: 1020420

Ion Ratio Lower Upper

91 100

106 30.9 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

1200000

1000000

800000

600000

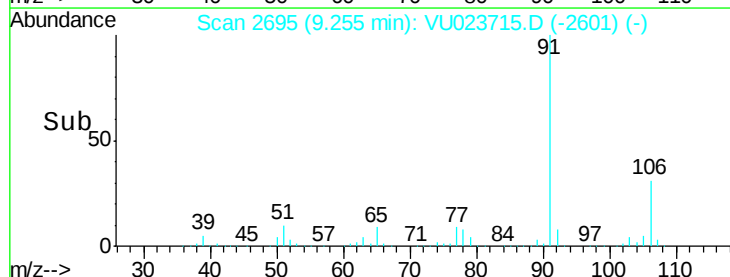
400000

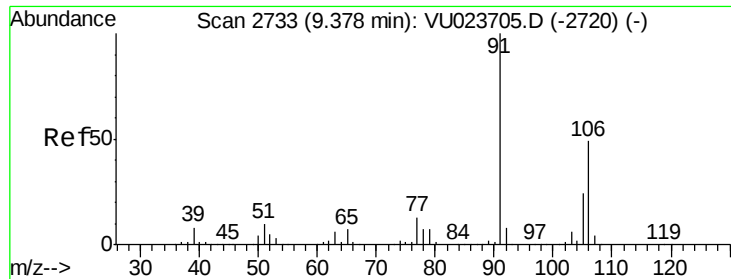
200000

0

Time-->

9.15 9.20 9.25 9.30 9.35





#53

m,p-Xylene

Concen: 166.16 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU023715.D

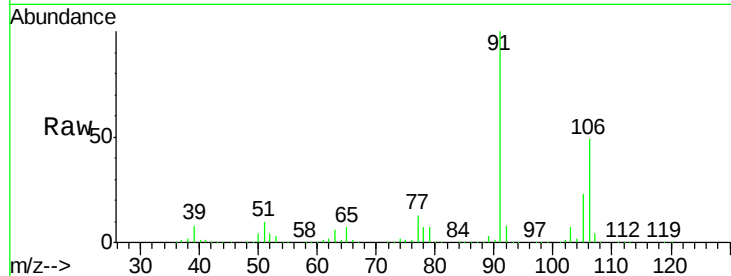
Acq: 07 May 2018 15:02

Tot Ion:106 Resp: 851195

Ion Ratio Lower Upper

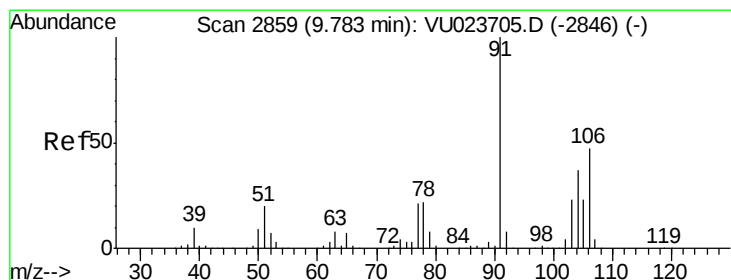
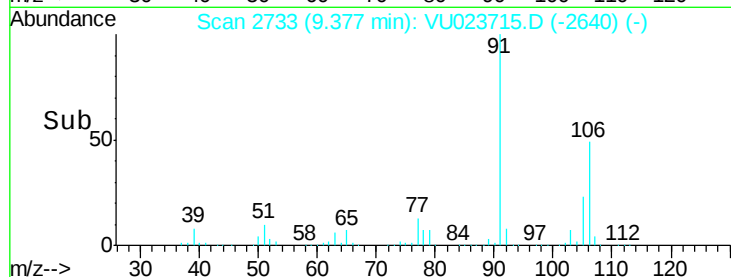
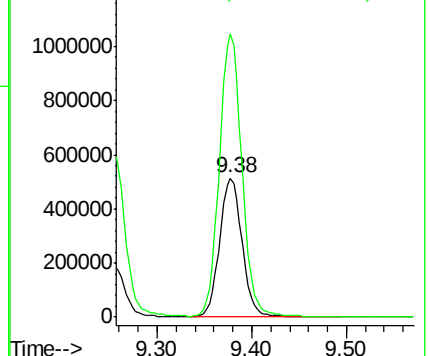
106 100

91 203.2 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 103.36 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU023715.D

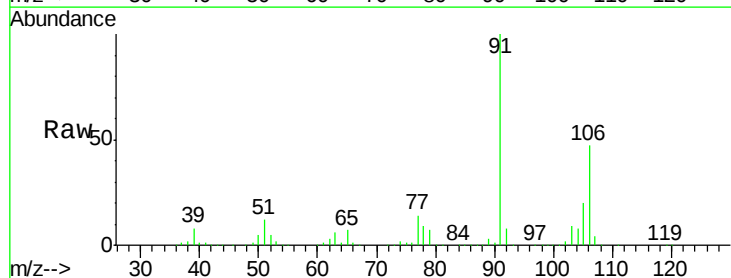
Acq: 07 May 2018 15:02

Tgt Ion:106 Resp: 501654

Ion Ratio Lower Upper

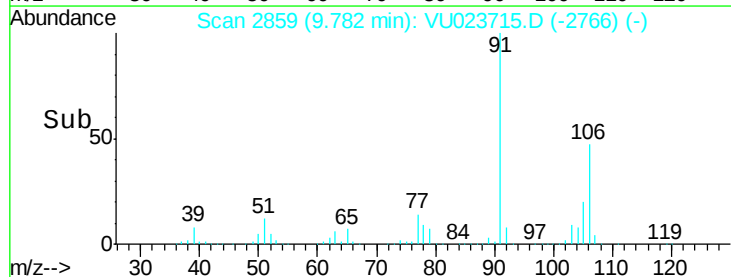
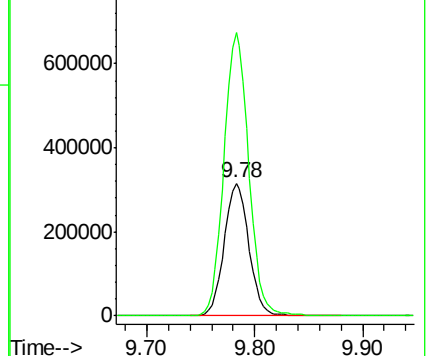
106 100

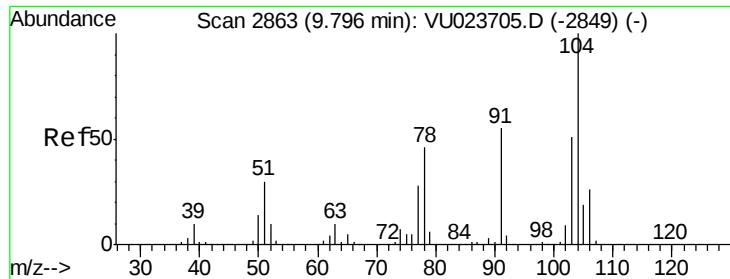
91 213.1 148.9 276.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#55

Stvrene

Concen: 19.97 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU023715.D

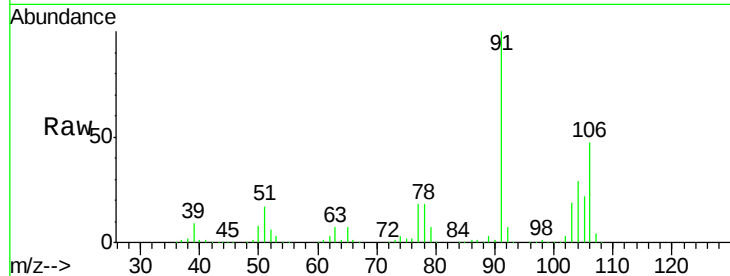
Acq: 07 May 2018 15:02

Tot Ion:104 Resp: 169582

Ion Ratio Lower Upper

104 100

78 61.2 32.1 59.7#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

9.80

100000

80000

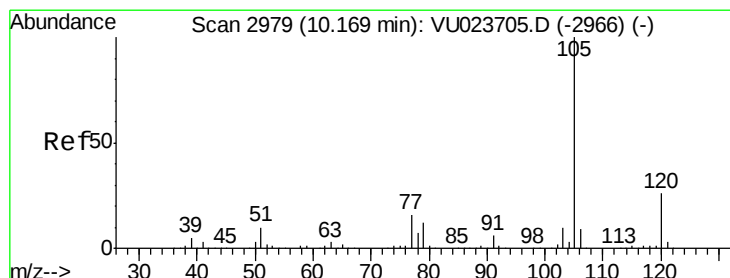
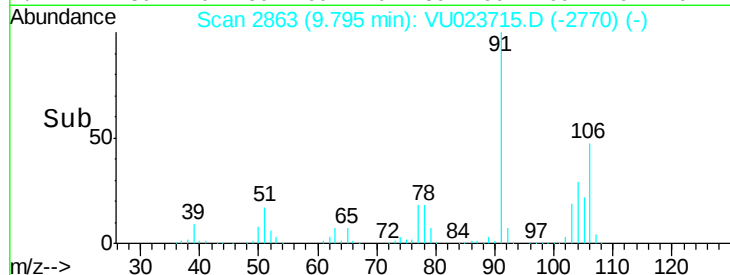
60000

40000

20000

0

Time-->



#56

Isopropylbenzene

Concen: 2.61 ug/L

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU023715.D

Acq: 07 May 2018 15:02

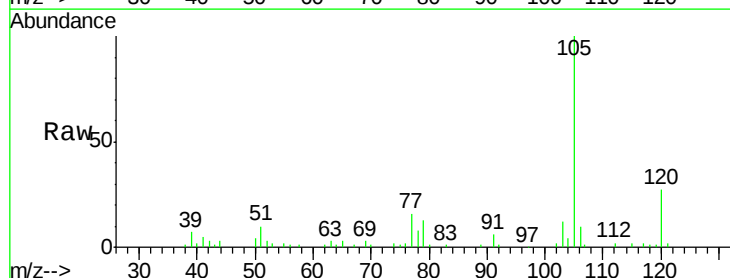
Tgt Ion:105 Resp: 33187

Ion Ratio Lower Upper

105 100

120 26.2 20.9 31.3

77 15.2 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

10.17

25000

20000

15000

10000

5000

0

Time-->

