

Data Path : W:\HPCHEM1\MSVOA U\DATA\VU050618\  
 Data File : VU023690.D  
 Acq On : 06 May 2018 15:04  
 Operator : MD/SY  
 Sample : J2721-01DL 200X  
 Misc : 6.42g/5.0mL/100ul/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 07 01:53:27 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_U\METHOD\SOMULM050118WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon May 07 00:51:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 388618   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 365554   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 187327   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 113492   | 41.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 82.40%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 89947    | 42.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 85.68%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 157632   | 29.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 58.70%# |
| 21) 2-Butanone-d5              | 4.18    | 46    | 195983   | 102.99   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 102.99% |
| 24) Chloroform-d               | 4.65    | 84    | 203658   | 44.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.42%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 138019   | 43.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.14%  |
| 32) Benzene-d6                 | 5.35    | 84    | 442869   | 45.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.30%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 148625   | 45.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 90.48%  |
| 41) Toluene-d8                 | 7.57    | 98    | 399195   | 44.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.30%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 60560    | 42.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 85.64%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 140796   | 112.86   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 112.86% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 194548   | 45.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.56%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 168997   | 46.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.48%  |

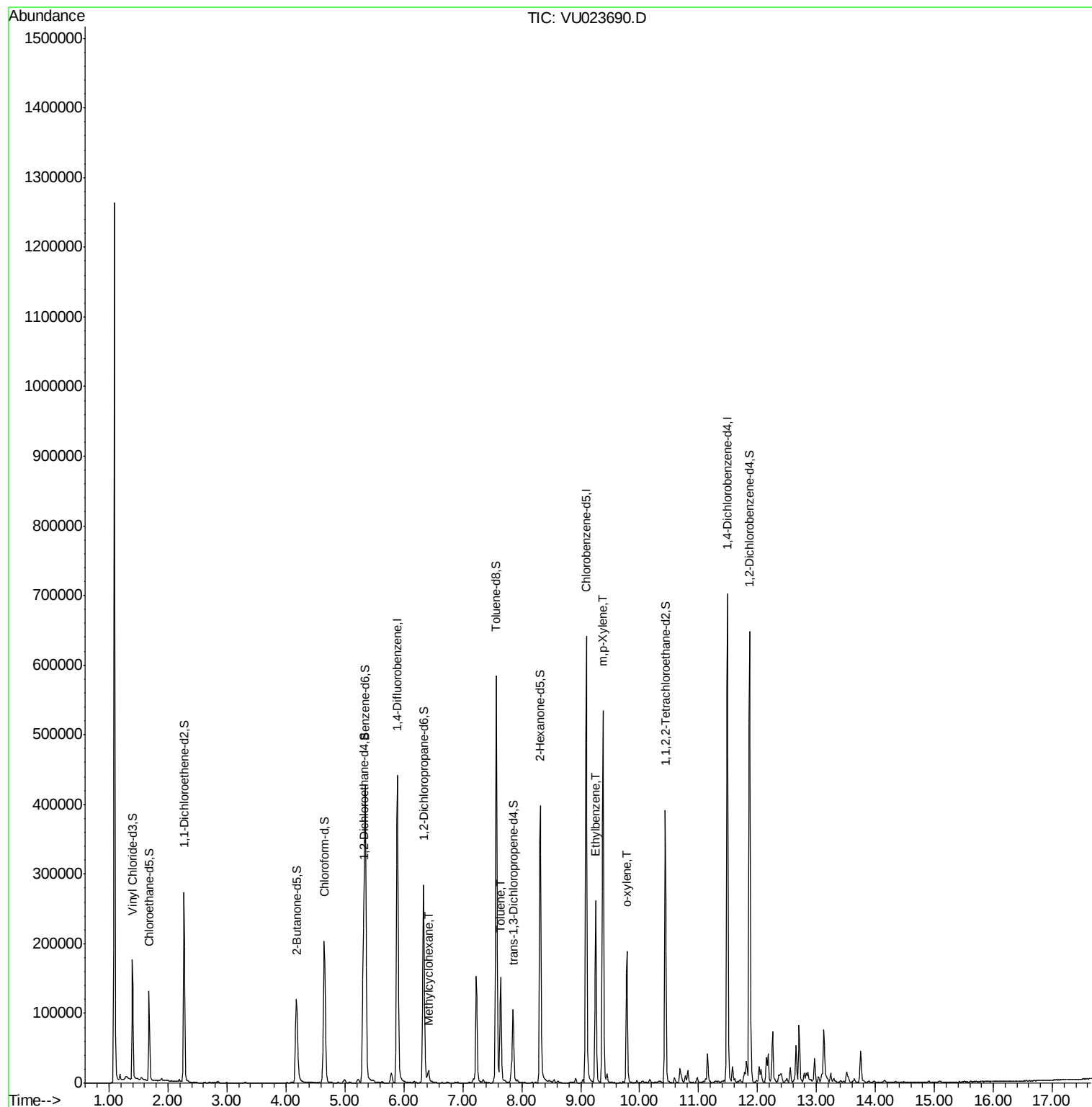
## Target Compounds

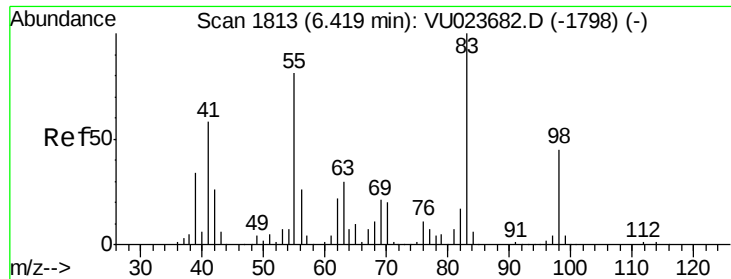
|                       |      |     |        |       | Ovalue   |
|-----------------------|------|-----|--------|-------|----------|
| 35) Methylcyclohexane | 6.42 | 83  | 6747   | 1.31  | ug/L 94  |
| 42) Toluene           | 7.64 | 91  | 111728 | 8.37  | ug/L 99  |
| 52) Ethylbenzene      | 9.26 | 91  | 187464 | 12.95 | ug/L 100 |
| 53) m,p-Xylene        | 9.38 | 106 | 150958 | 27.35 | ug/L 97  |
| 54) o-xylene          | 9.78 | 106 | 51522  | 9.85  | ug/L 99  |

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

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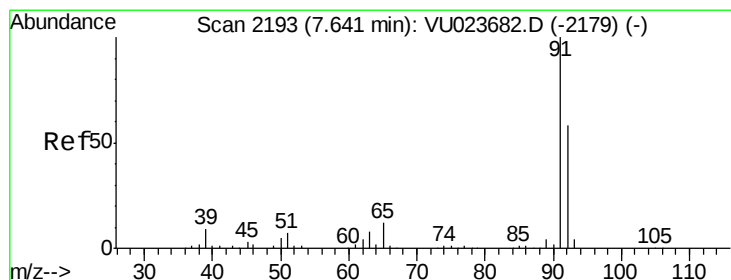
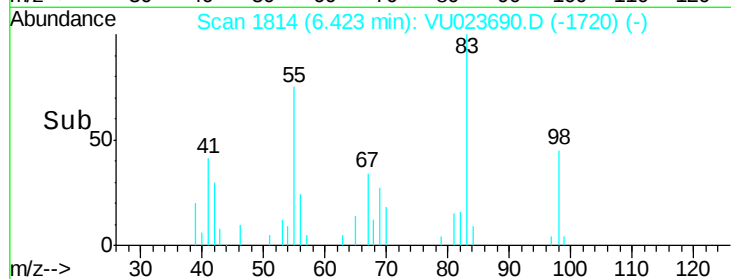
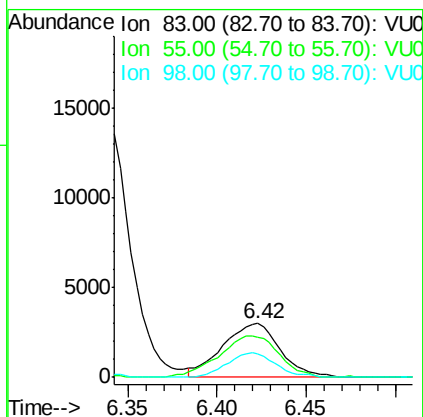
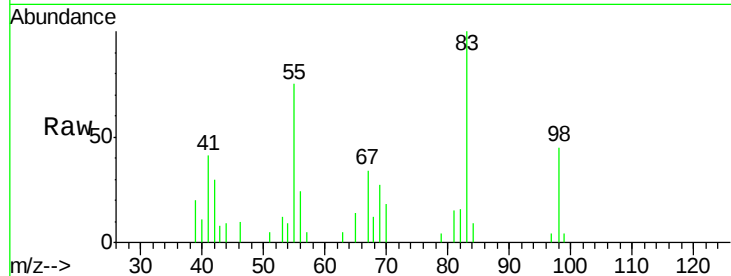




#35  
Methvlcvclohexane  
Concen: 1.31 ug/L  
RT: 6.42 min Scan# 1814  
Delta R.T. 0.00 min  
Lab File: VU023690.D  
Acq: 06 May 2018 15:04

Tot Ion: 83 Resp: 6747  

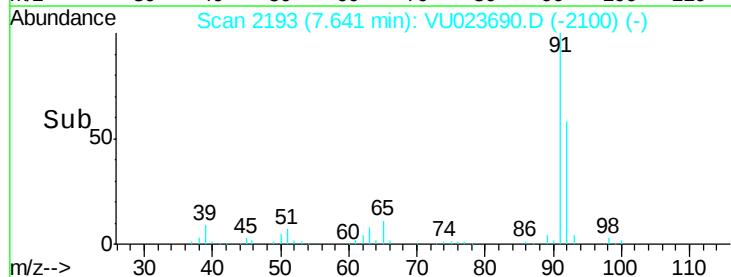
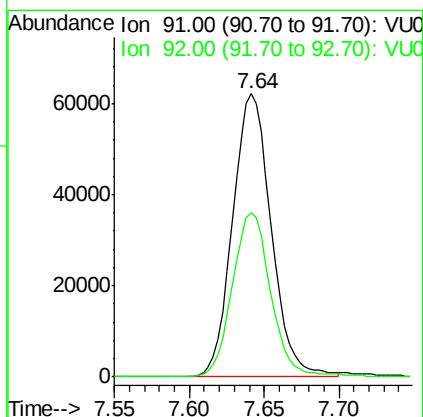
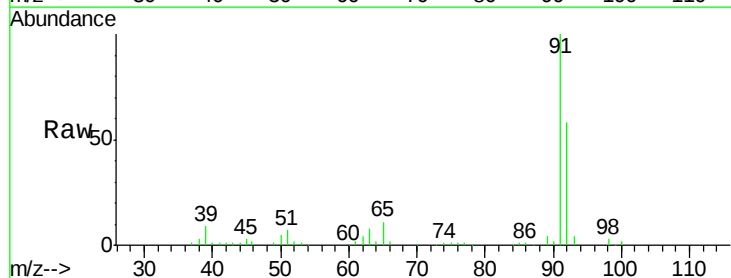
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 80.7  | 66.7  | 100.1 |
| 98  | 38.7  | 36.6  | 54.8  |

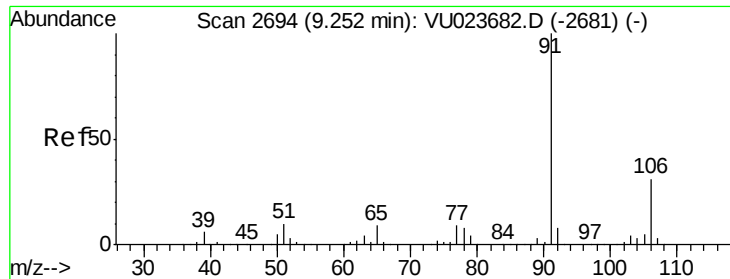


#42  
Toluene  
Concen: 8.37 ug/L  
RT: 7.64 min Scan# 2193  
Delta R.T. 0.00 min  
Lab File: VU023690.D  
Acq: 06 May 2018 15:04

Tgt Ion: 91 Resp: 111728  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 58.3  | 40.3  | 74.9  |





#52

Ethylbenzene

Concen: 12.95 ug/L

RT: 9.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU023690.D

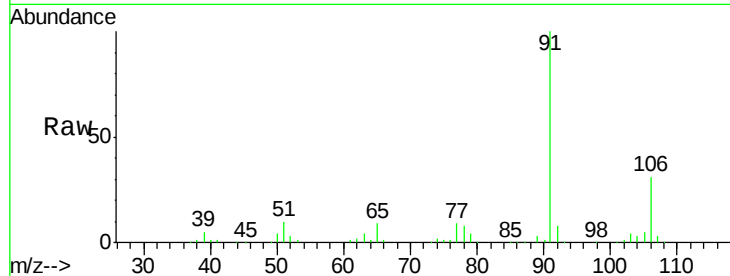
Acq: 06 May 2018 15:04

Tot Ion: 91 Resp: 187464

Ion Ratio Lower Upper

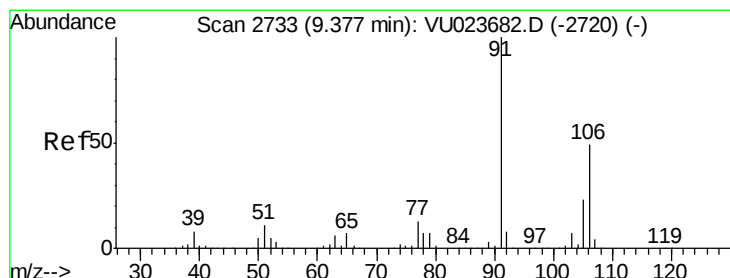
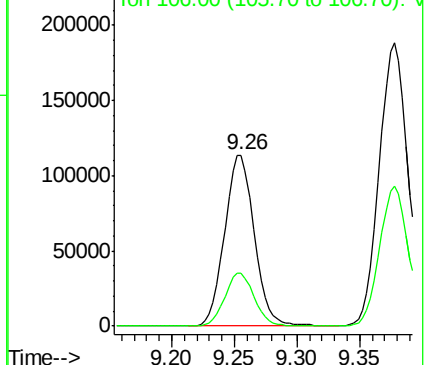
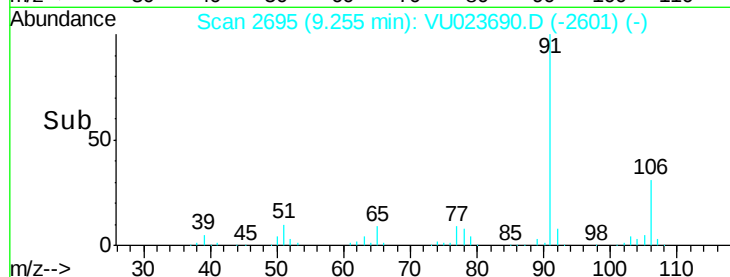
91 100

106 30.7 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 27.35 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU023690.D

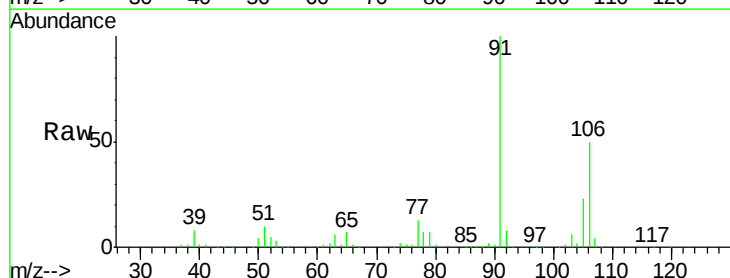
Acq: 06 May 2018 15:04

Tgt Ion: 106 Resp: 150958

Ion Ratio Lower Upper

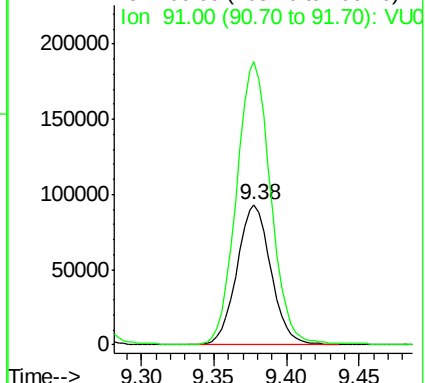
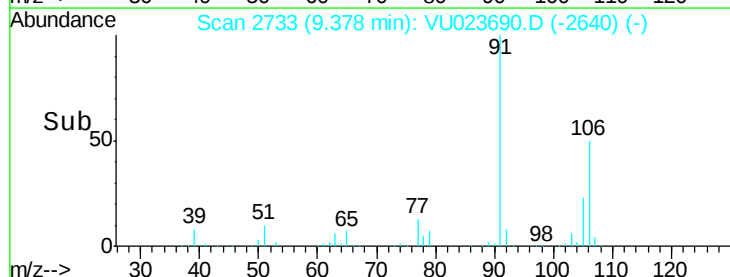
106 100

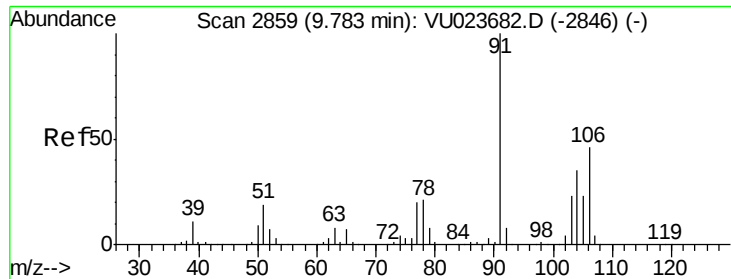
91 201.7 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#54  
o-xylene  
Concen: 9.85 ug/L  
RT: 9.78 min Scan# 2859  
Delta R.T. 0.00 min  
Lab File: VU023690.D  
Acq: 06 May 2018 15:04

Tot Ion:106 Resp: 51522  
Ion Ratio Lower Upper  
106 100  
91 213.7 148.9 276.5

