

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021519\  
 Data File : VU029496.D  
 Acq On : 15 Feb 2019 14:44  
 Operator : JC/SP  
 Sample : K1455-01DL 200X  
 Misc : 4.86g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BE801DL

Quant Time: Feb 18 10:05:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Feb 15 23:28:02 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 423868   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 413979   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 218517   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 143687   | 46.26    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.52% |
| 7) Chloroethane-d5             | 1.68    | 69    | 128242   | 46.44    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.88% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 232345   | 38.27    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.54% |
| 21) 2-Butanone-d5              | 4.17    | 46    | 185008   | 97.88    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.88% |
| 24) Chloroform-d               | 4.65    | 84    | 233300   | 46.31    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.62% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 152185   | 47.71    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.42% |
| 32) Benzene-d6                 | 5.34    | 84    | 513787   | 49.32    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.64% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 152960   | 48.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.62% |
| 41) Toluene-d8                 | 7.56    | 98    | 513602   | 48.31    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.62% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 77259    | 46.48    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.96% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 172516   | 98.85    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 98.85% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 240319   | 45.38    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 90.76% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 227023   | 48.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.42% |

## Target Compounds

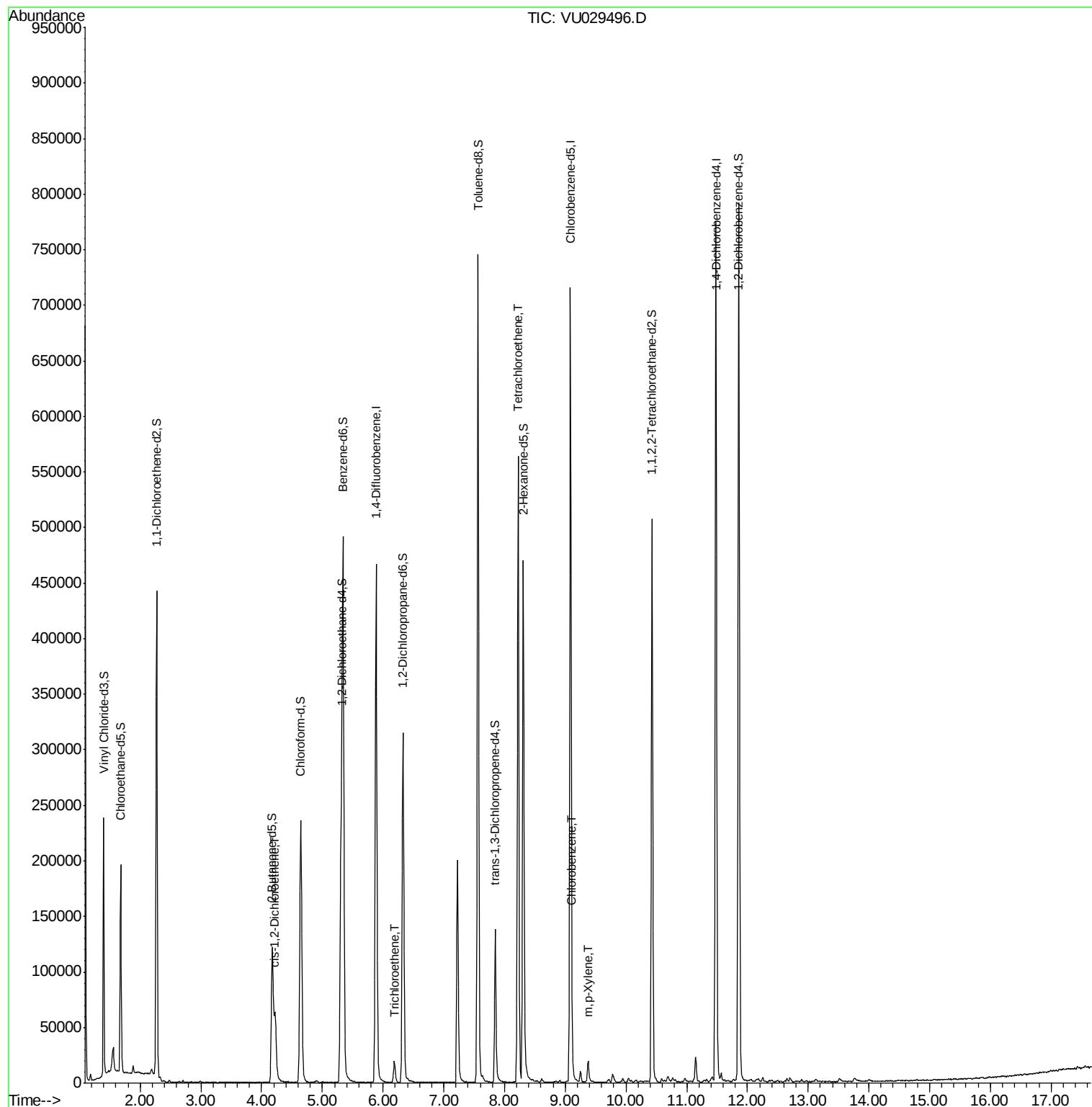
|                            |      |     |        |             | Ovalue |
|----------------------------|------|-----|--------|-------------|--------|
| 20) cis-1,2-Dichloroethene | 4.22 | 96  | 29820  | 9.906 ug/L  | 97     |
| 34) Trichloroethene        | 6.19 | 95  | 6682   | 2.337 ug/L  | 93     |
| 46) Tetrachloroethene      | 8.22 | 164 | 135429 | 48.392 ug/L | 99     |
| 51) Chlorobenzene          | 9.12 | 112 | 8360   | 0.970 ug/L  | 95     |
| 53) m,p-Xylene             | 9.38 | 106 | 6208   | 1.085 ug/L  | 96     |

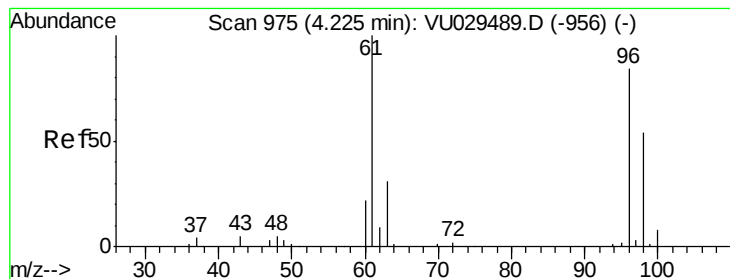
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 11 Sample Multiplier: 1

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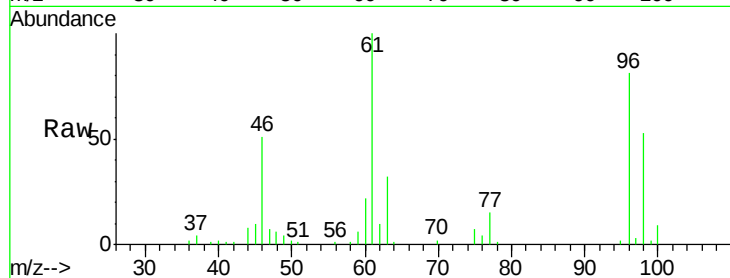


#20

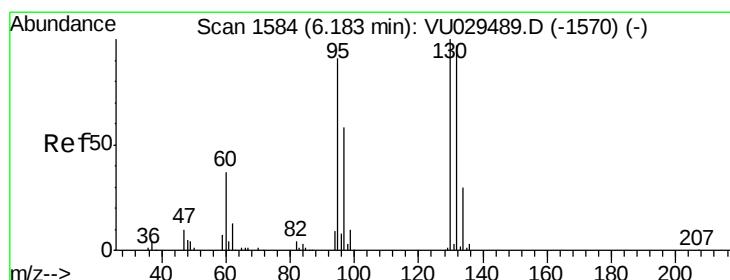
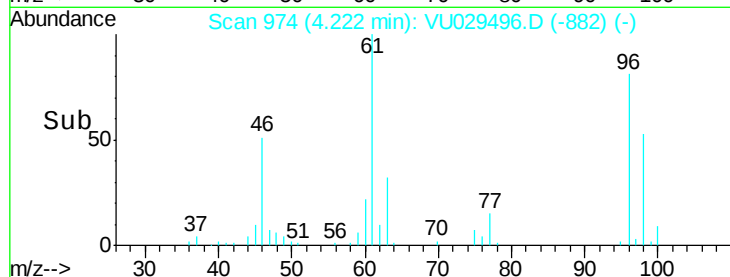
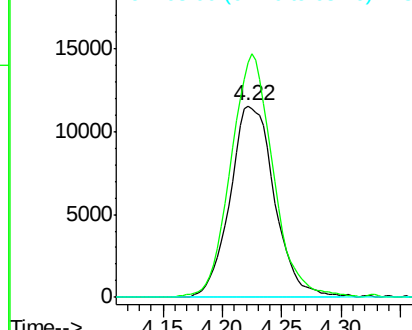
cis-1,2-Dichloroethene  
Concen: 9.906 ug/L  
RT: 4.22 min Scan# 974  
Delta R.T. -0.00 min  
Lab File: VU029496.D  
Acq: 15 Feb 2019 14:44

Instrument :  
MSVOA\_U  
ClientSampleId :  
BE801DL

Tot Ion: 96 Resp: 29820  
Ion Ratio Lower Upper  
96 100  
61 123.0 83.9 155.7  
68 0.0 0.0 0.0



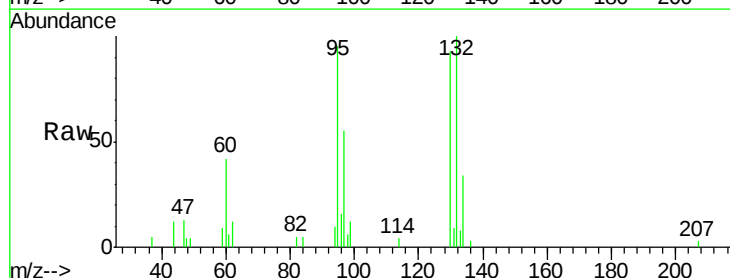
Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 68.00 (67.70 to 68.70): VU0



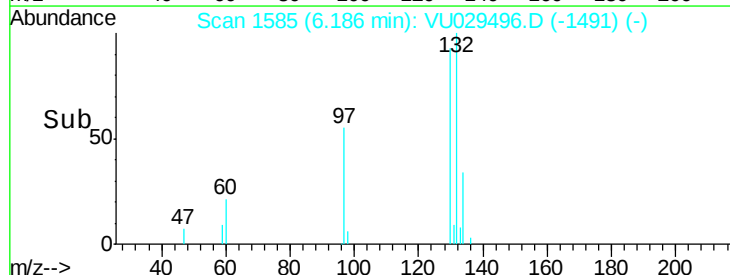
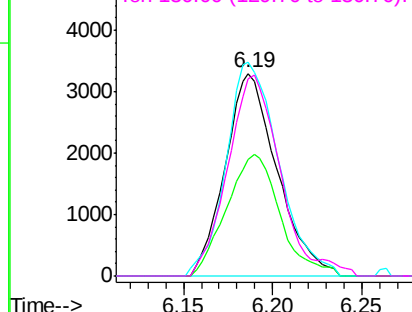
#34

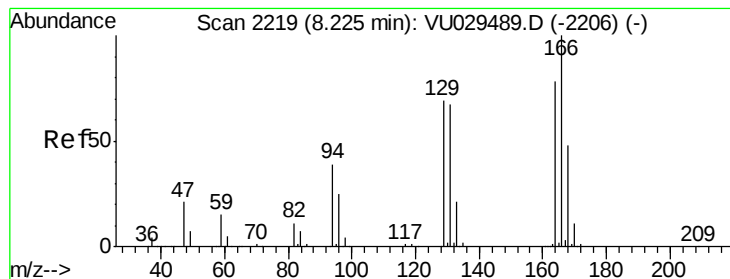
Trichloroethene  
Concen: 2.337 ug/L  
RT: 6.19 min Scan# 1585  
Delta R.T. 0.00 min  
Lab File: VU029496.D  
Acq: 15 Feb 2019 14:44

Tgt Ion: 95 Resp: 6682  
Ion Ratio Lower Upper  
95 100  
97 57.7 44.6 82.8  
132 105.4 74.6 138.6  
130 97.6 77.2 143.4



Abundance Ion 95.00 (94.70 to 95.70): VU0  
Ion 97.00 (96.70 to 97.70): VU0  
Ion 132.00 (131.70 to 132.70): V  
Ion 130.00 (129.70 to 130.70): V





#46

Tetrachloroethene

Concen: 48.392 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VU029496.D

Acq: 15 Feb 2019 14:44

Instrument :

MSVOA\_U

ClientSampleId :

BE801DL

Tot Ion:164 Resp: 135429

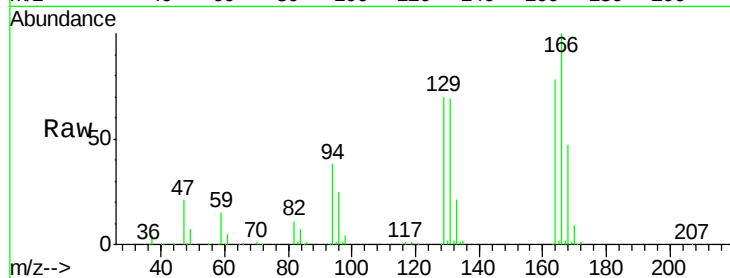
Ion Ratio Lower Upper

164 100

129 89.0 62.1 115.3

131 88.5 60.1 111.5

166 127.9 89.7 166.5

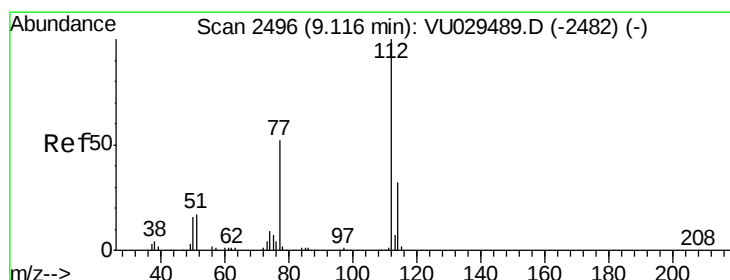
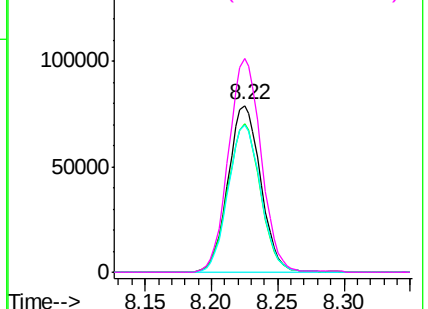
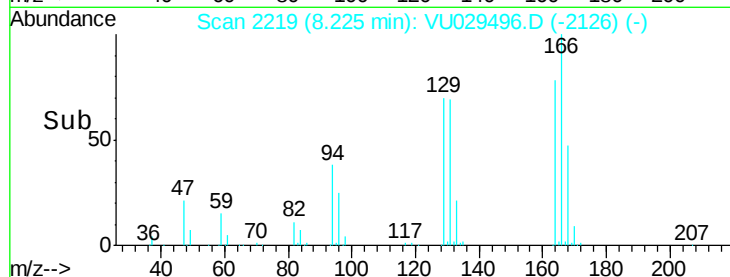


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#51

Chlorobenzene

Concen: 0.970 ug/L

RT: 9.12 min Scan# 2497

Delta R.T. 0.00 min

Lab File: VU029496.D

Acq: 15 Feb 2019 14:44

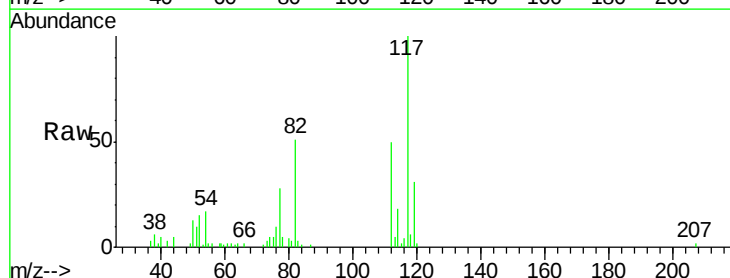
Tgt Ion:112 Resp: 8360

Ion Ratio Lower Upper

112 100

114 35.7 22.7 42.1

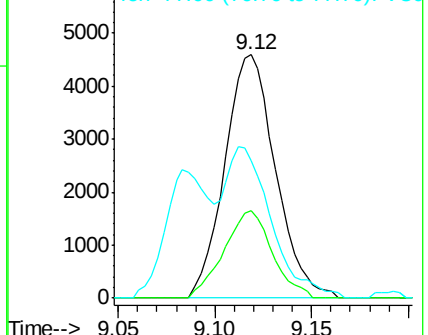
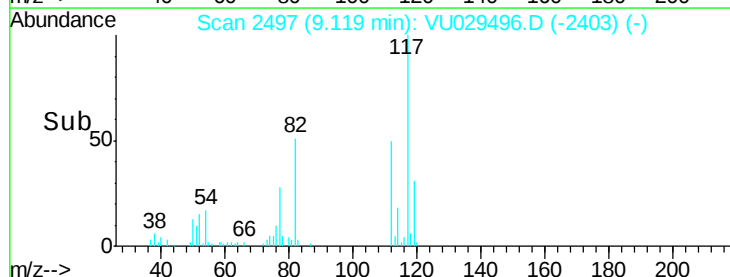
77 56.2 42.1 63.1

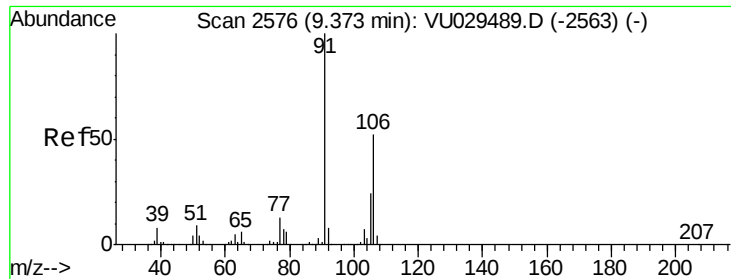


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#53  
 m,p-Xylene  
 Concen: 1.085 ug/L  
 RT: 9.38 min Scan# 2578  
 Delta R.T. 0.01 min  
 Lab File: VU029496.D  
 Acq: 15 Feb 2019 14:44

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BE801DL

Tot Ion:106 Resp: 6208  
 Ion Ratio Lower Upper  
 106 100  
 91 187.0 135.3 251.3

