

Data File : VU031677.D  
Acq On : 01 May 2019 12:23  
Operator : JC/SP  
Sample : K2604-12 5X  
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAJ86

Quant Time: May 02 02:26:55 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu May 02 02:23:23 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 1007498  | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 967393   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 465501   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 262445   | 31.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 62.24%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 226571   | 34.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 69.54%# |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 442686   | 26.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 52.72%# |
| 21) 2-Butanone-d5              | 4.19    | 46    | 728711   | 95.38    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.38%  |
| 24) Chloroform-d               | 4.64    | 84    | 574290   | 37.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 74.38%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 394198   | 39.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 78.14%  |
| 32) Benzene-d6                 | 5.33    | 84    | 1200004  | 40.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 80.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 429290   | 41.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 82.16%  |
| 41) Toluene-d8                 | 7.56    | 98    | 1057480  | 40.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 81.74%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 187872   | 41.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 83.76%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 493509   | 109.10   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 109.10% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 595129   | 42.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 84.86%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 405293   | 41.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 82.80%  |

#### Target Compounds

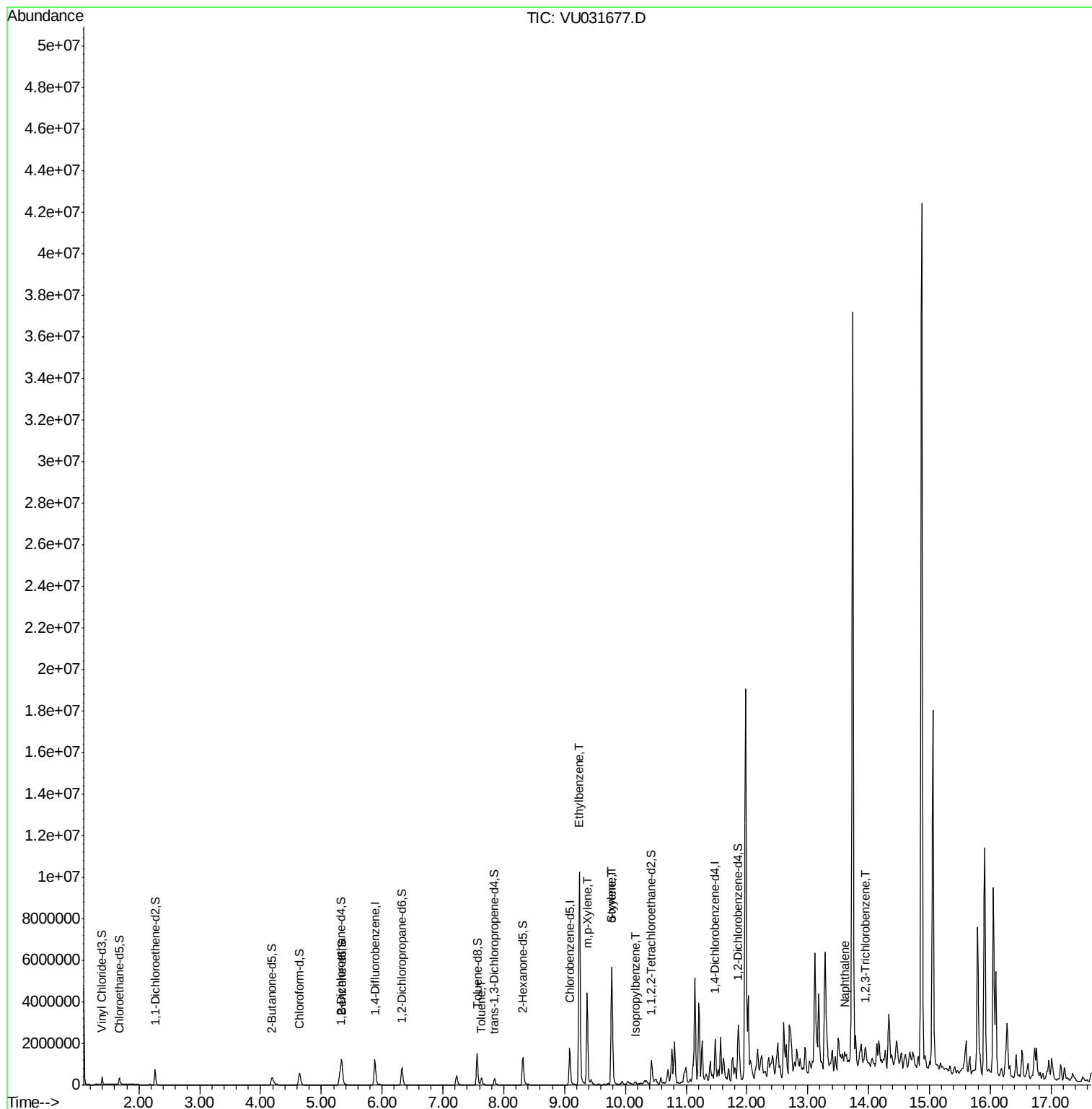
|                            |       |     |         |         | Qvalue   |
|----------------------------|-------|-----|---------|---------|----------|
| 42) Toluene                | 7.63  | 91  | 258473  | 7.295   | ug/L 99  |
| 52) Ethylbenzene           | 9.24  | 91  | 7456631 | 202.894 | ug/L 99  |
| 53) m,p-Xylene             | 9.37  | 106 | 1221599 | 95.403  | ug/L 95  |
| 54) o-xylene               | 9.77  | 106 | 1316262 | 103.687 | ug/L 99  |
| 55) Styrene                | 9.79  | 104 | 669724  | 30.879  | ug/L 87  |
| 56) Isopropylbenzene       | 10.16 | 105 | 74905   | 2.244   | ug/L 97  |
| 69) Naphthalene            | 13.60 | 128 | 40500   | 1.300   | ug/L # 1 |
| 70) 1,2,3-Trichlorobenzene | 13.94 | 180 | 11054   | 1.063   | ug/L # 1 |

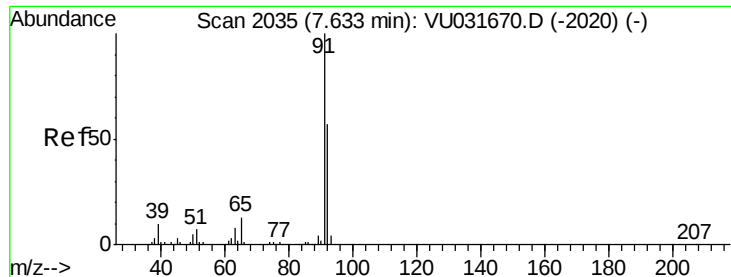
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
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Response via : Initial Calibration





#42

Toluene

Concen: 7.295 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031677.D

Acq: 01 May 2019 12:23

Instrument :

MSVOA\_U

ClientSampleId :

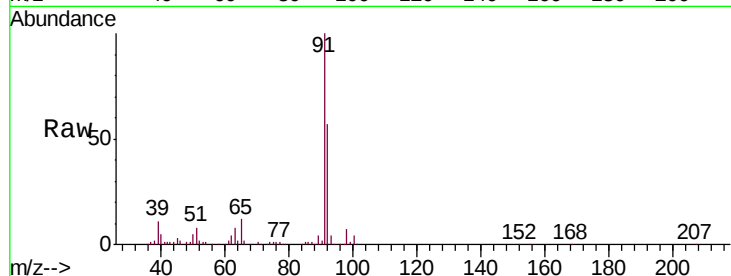
GAJ86

Tgt Ion: 91 Resp: 258473

Ion Ratio Lower Upper

91 100

92 56.5 39.0 72.4



Abundance Ion 91.00 (90.70 to 91.70): VU031677.D (-1942) (-)

Ion 92.00 (91.70 to 92.70): VU031677.D (-1942) (-)

7.63

150000

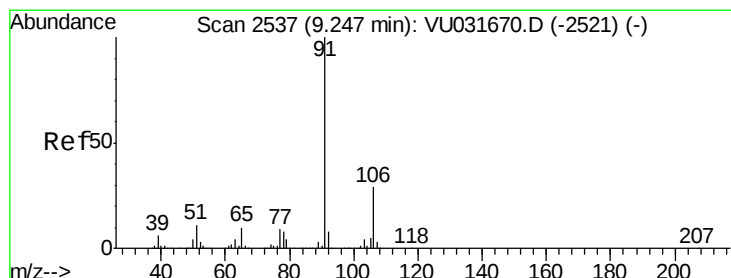
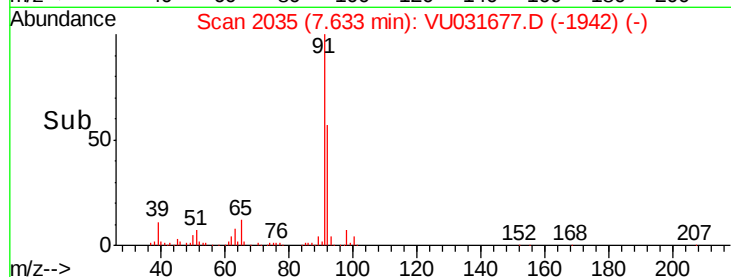
100000

50000

0

7.60 7.70

Time-->



#52

Ethylbenzene

Concen: 202.894 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031677.D

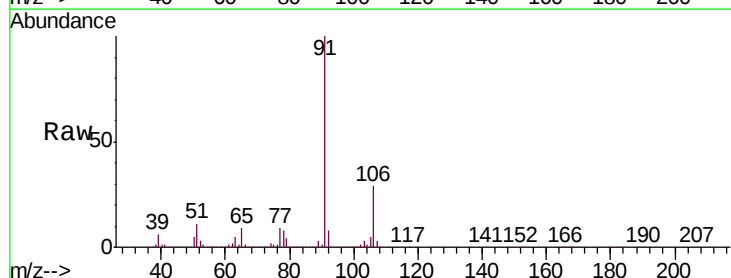
Acq: 01 May 2019 12:23

Tgt Ion: 91 Resp: 7456631

Ion Ratio Lower Upper

91 100

106 29.5 20.4 37.8



Abundance Ion 91.00 (90.70 to 91.70): VU031677.D (-2444) (-)

Ion 106.00 (105.70 to 106.70): VU031677.D (-2444) (-)

9.24

5000000

4000000

3000000

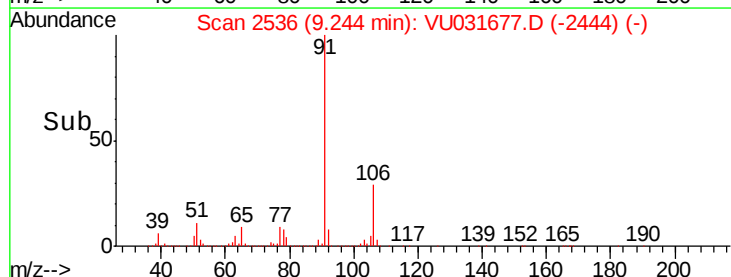
2000000

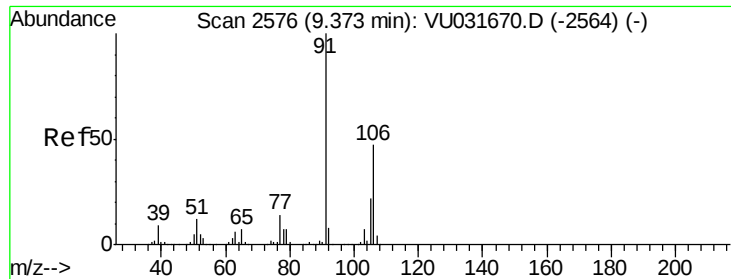
1000000

0

9.20 9.30

Time-->





#53

m,p-Xylene

Concen: 95.403 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU031677.D

Acq: 01 May 2019 12:23

Instrument :

MSVOA\_U

ClientSampleId :

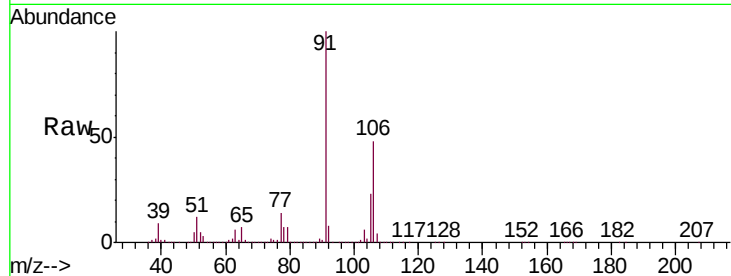
GAJ86

Tgt Ion:106 Resp: 1221599

Ion Ratio Lower Upper

106 100

91 210.0 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

3000000

2500000

2000000

1500000

1000000

500000

0

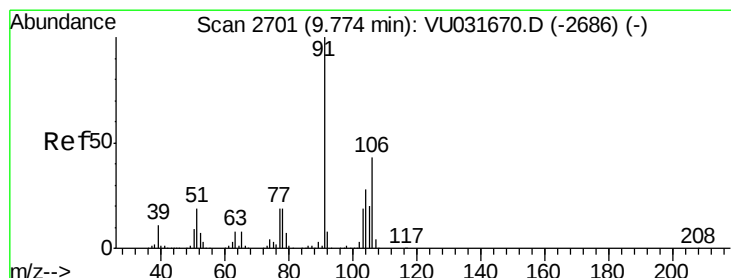
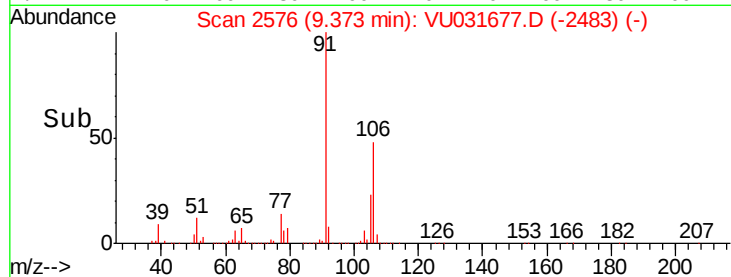
9.30

9.37

9.40

9.50

Time-->



#54

o-xylene

Concen: 103.687 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU031677.D

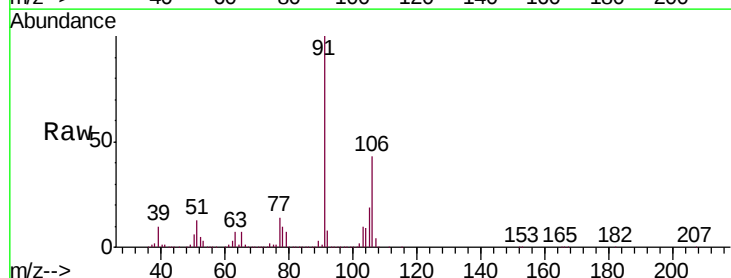
Acq: 01 May 2019 12:23

Tgt Ion:106 Resp: 1316262

Ion Ratio Lower Upper

106 100

91 230.9 163.2 303.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

2000000

1500000

1000000

500000

0

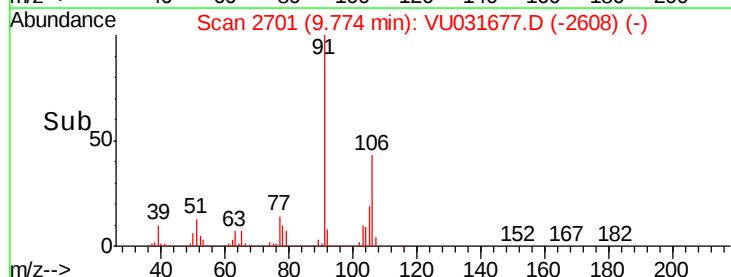
9.70

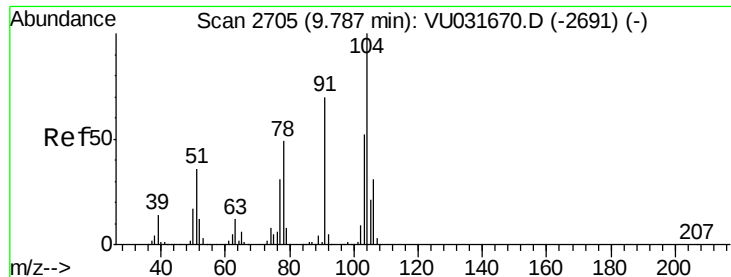
9.77

9.80

9.90

Time-->





#55

Styrene

Concen: 30.879 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031677.D

Acq: 01 May 2019 12:23

Instrument :

MSVOA\_U

ClientSampleId :

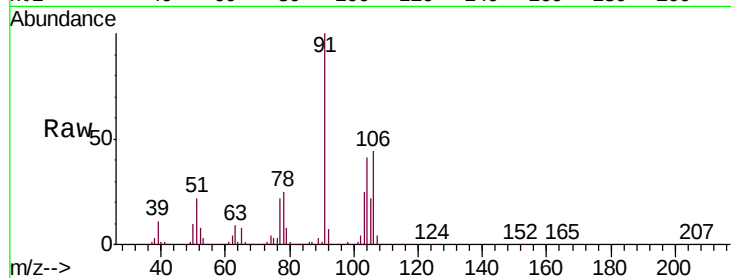
GAJ86

Tgt Ion:104 Resp: 669724

Ion Ratio Lower Upper

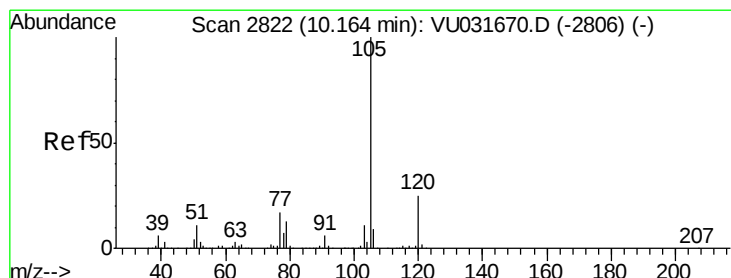
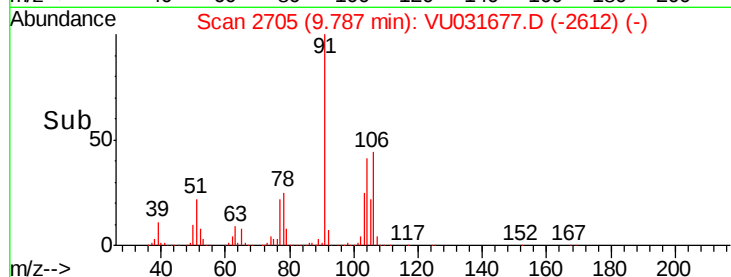
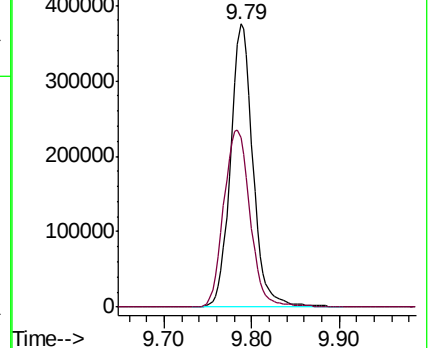
104 100

78 59.8 35.4 65.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 2.244 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031677.D

Acq: 01 May 2019 12:23

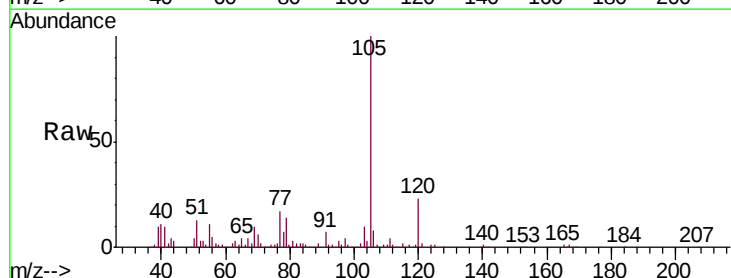
Tgt Ion:105 Resp: 74905

Ion Ratio Lower Upper

105 100

120 23.2 20.1 30.1

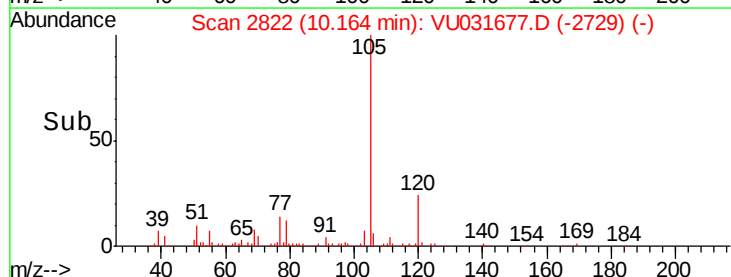
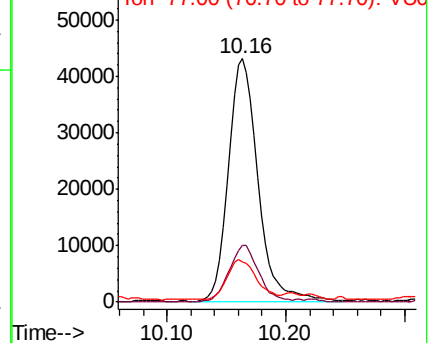
77 16.0 13.8 20.6

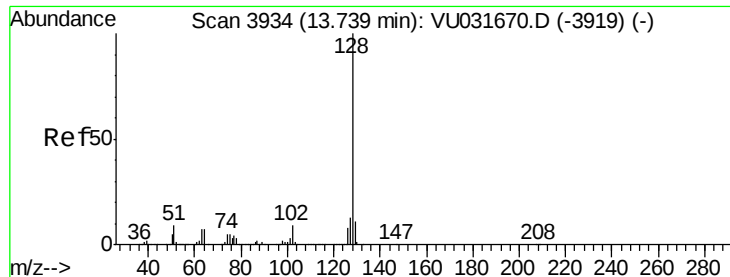


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#69

Naphthalene

Concen: 1.300 ug/L

RT: 13.60 min Scan# 3892

Delta R.T. -0.14 min

Lab File: VU031677.D

Acq: 01 May 2019 12:23

Instrument :

MSVOA\_U

ClientSampled :

GAJ86

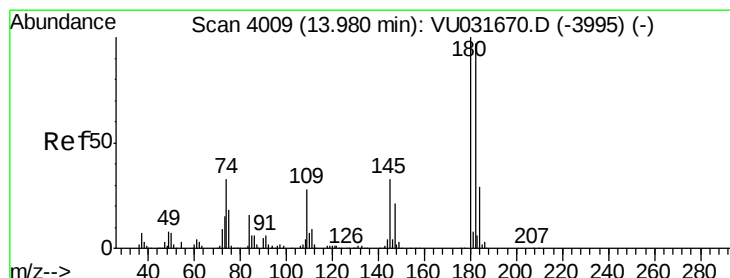
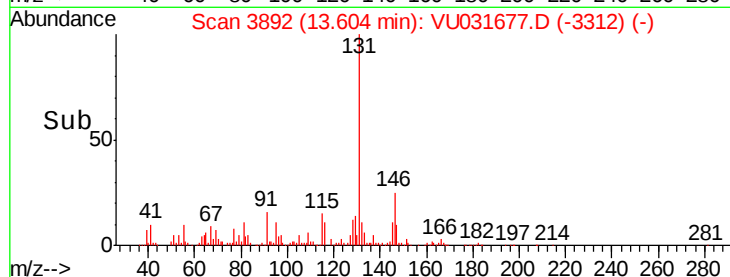
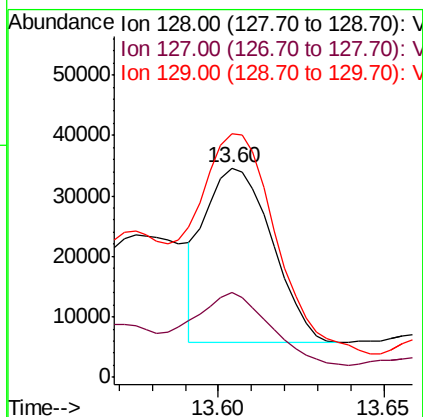
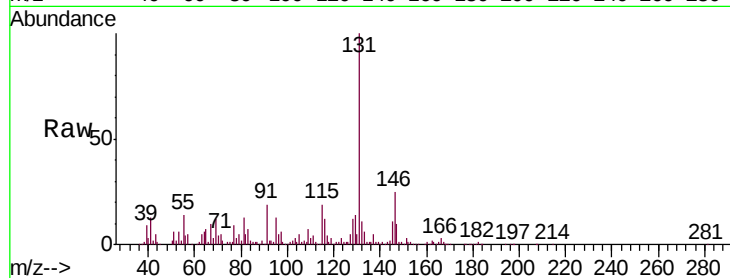
Tgt Ion:128 Resp: 40500

Ion Ratio Lower Upper

128 100

127 47.5 10.6 15.8#

129 145.1 8.7 13.1#



#70

1,2,3-Trichlorobenzene

Concen: 1.063 ug/L

RT: 13.94 min Scan# 3996

Delta R.T. -0.04 min

Lab File: VU031677.D

Acq: 01 May 2019 12:23

Tgt Ion:180 Resp: 11054

Ion Ratio Lower Upper

180 100

182 42.5 76.1 114.1#

145 1344.3 26.0 39.0#

