

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052419\  
 Data File : VU032309.D  
 Acq On : 24 May 2019 13:26  
 Operator : JC/SP  
 Sample : K3001-11 25X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 64 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E3YF6

Quant Time: May 28 11:33:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM052419WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri May 24 23:32:32 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 761941   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 772917   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 355990   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 209457   | 52.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 105.18% |
| 7) Chloroethane-d5             | 1.67    | 69    | 193685   | 50.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 101.34% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 310273   | 39.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 78.56%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 344103   | 90.56    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 90.56%  |
| 24) Chloroform-d               | 4.64    | 84    | 454419   | 44.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.50%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 287331   | 45.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.10%  |
| 32) Benzene-d6                 | 5.34    | 84    | 932343   | 47.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.74%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 289963   | 46.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 92.58%  |
| 41) Toluene-d8                 | 7.56    | 98    | 840968   | 46.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.36%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 126712   | 43.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.96%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 226907   | 86.15    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 86.15%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 439752   | 42.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 84.06%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 355590   | 47.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.06%  |

## Target Compounds

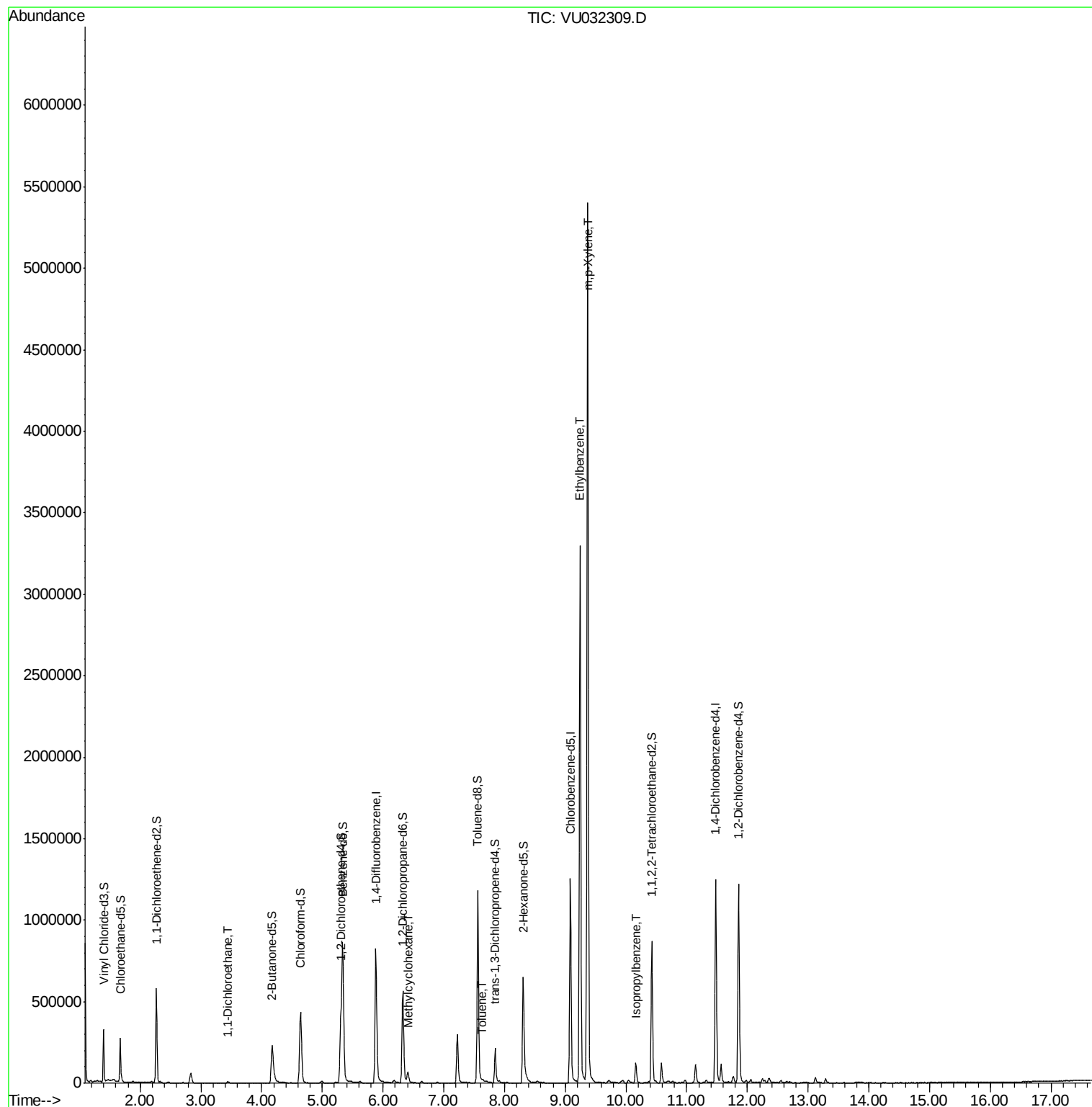
| Target Compounds       | R.T.  | QIon | Response | Conc    | Units | Ovalue |
|------------------------|-------|------|----------|---------|-------|--------|
| 19) 1,1-Dichloroethane | 3.44  | 63   | 7934     | 0.844   | ug/L  | 86     |
| 35) Methylcyclohexane  | 6.41  | 83   | 26336    | 3.975   | ug/L  | 90     |
| 42) Toluene            | 7.64  | 91   | 9273     | 0.398   | ug/L  | 81     |
| 52) Ethylbenzene       | 9.24  | 91   | 2414300  | 102.041 | ug/L  | 100    |
| 53) m,p-Xylene         | 9.37  | 106  | 1643338  | 179.945 | ug/L  | 98     |
| 56) Isopropylbenzene   | 10.16 | 105  | 81654    | 3.671   | ug/L  | 99     |

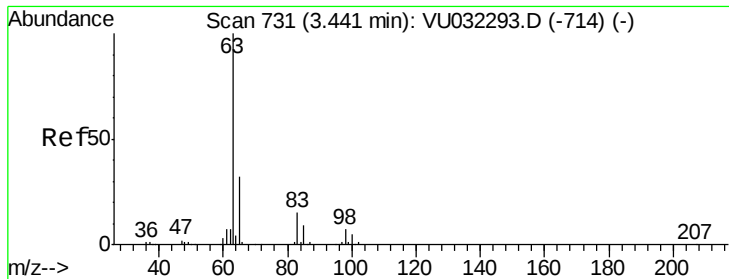
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri May 24 23:32:32 2019  
Response via : Initial Calibration





#19

1,1-Dichloroethane

Concen: 0.844 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU032309.D

Acq: 24 May 2019 13:26

Instrument :

MSVOA\_U

ClientSampleId :

E3YF6

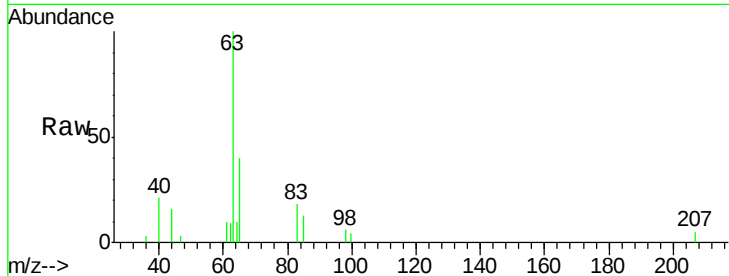
Tot Ion: 63 Resp: 7934

Ion Ratio Lower Upper

63 100

65 39.9 21.6 40.0

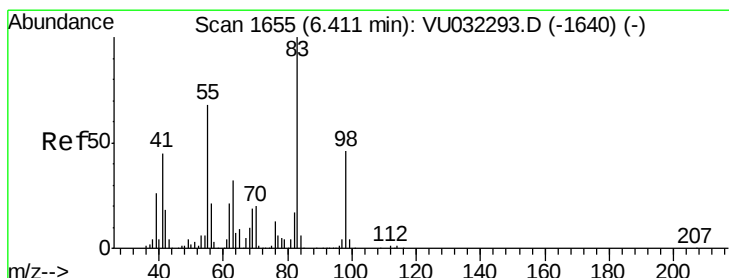
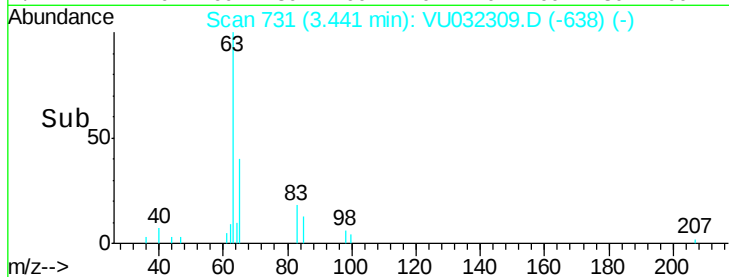
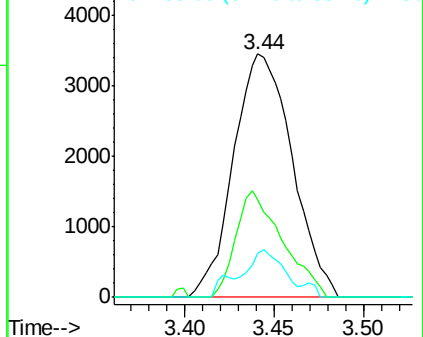
83 18.1 10.3 19.1



Abundance Ion 63.00 (62.70 to 63.70): VU032293.D (-714) (-)

Ion 65.00 (64.70 to 65.70): VU032293.D (-714) (-)

Ion 83.00 (82.70 to 83.70): VU032293.D (-714) (-)



#35

Methylcyclohexane

Concen: 3.975 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU032309.D

Acq: 24 May 2019 13:26

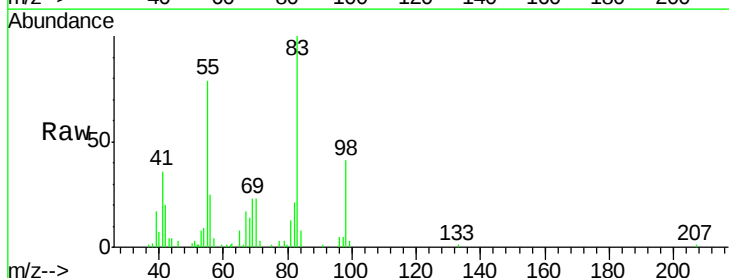
Tgt Ion: 83 Resp: 26336

Ion Ratio Lower Upper

83 100

55 82.2 56.1 84.1

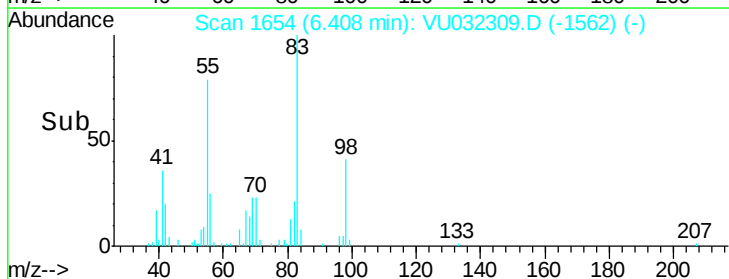
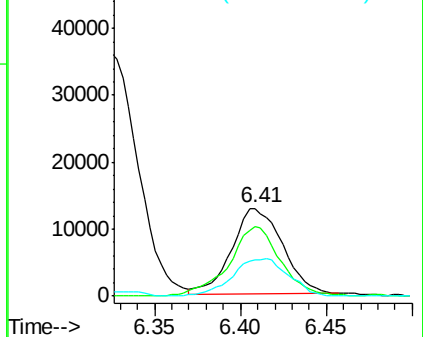
98 47.5 36.8 55.2

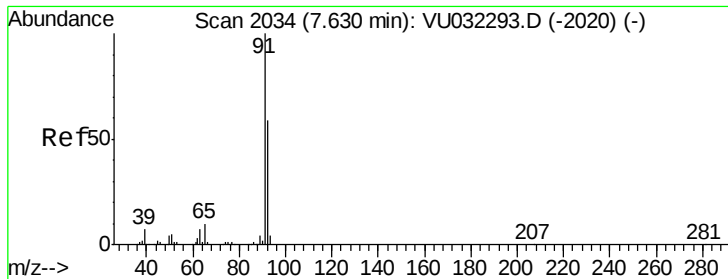


Abundance Ion 83.00 (82.70 to 83.70): VU032293.D (-1640) (-)

Ion 55.00 (54.70 to 55.70): VU032293.D (-1640) (-)

Ion 98.00 (97.70 to 98.70): VU032293.D (-1640) (-)





#42

Toluene

Concen: 0.398 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VU032309.D

Acq: 24 May 2019 13:26

Instrument :

MSVOA\_U

ClientSampleId :

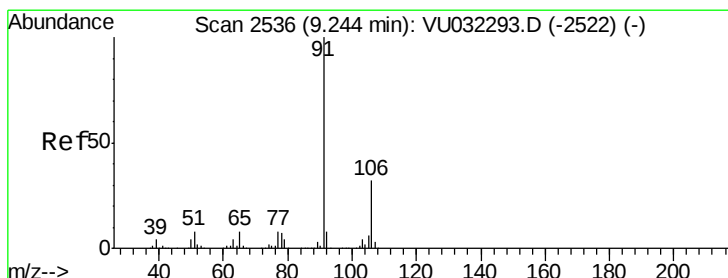
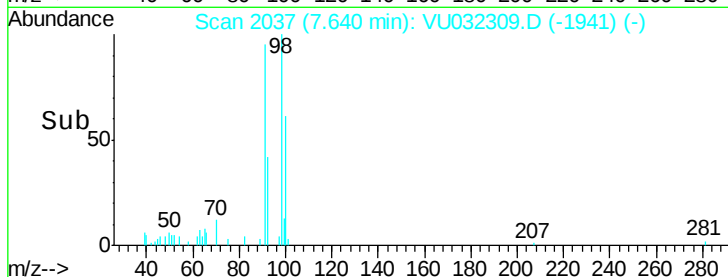
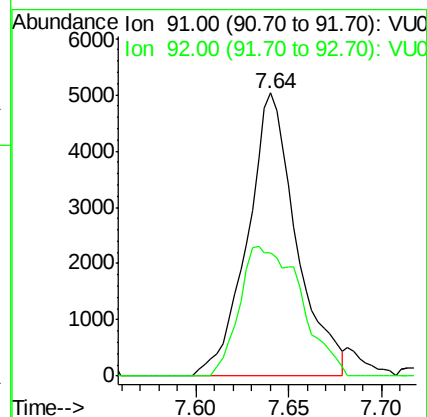
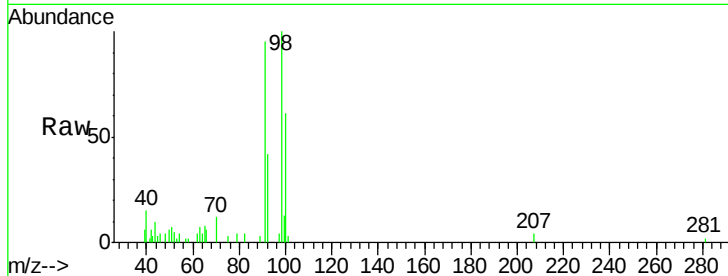
E3YF6

Tot Ion: 91 Resp: 9273

Ion Ratio Lower Upper

91 100

92 43.8 40.3 74.9



#52

Ethylbenzene

Concen: 102.041 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032309.D

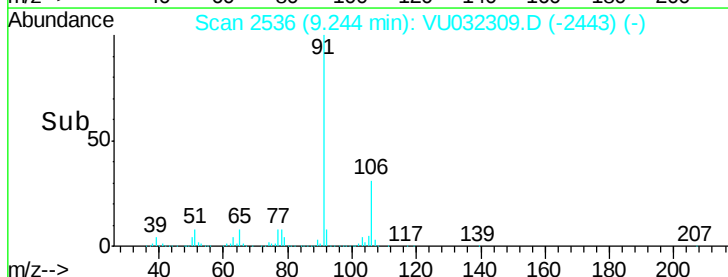
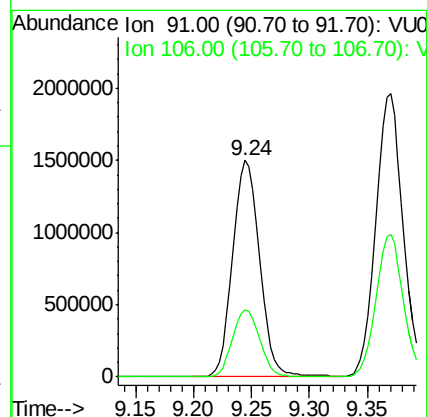
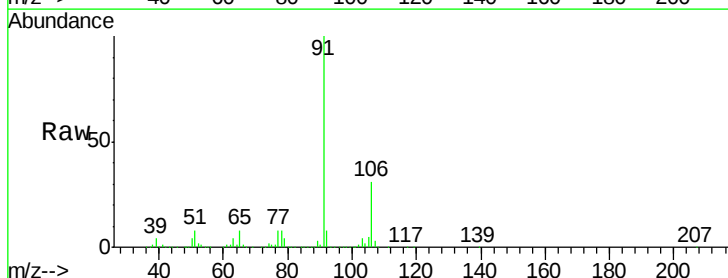
Acq: 24 May 2019 13:26

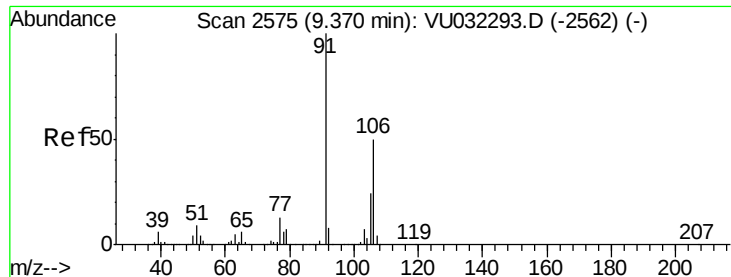
Tgt Ion: 91 Resp: 2414300

Ion Ratio Lower Upper

91 100

106 31.2 22.0 41.0





#53

m,p-Xylene

Concen: 179.945 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032309.D

Acq: 24 May 2019 13:26

Instrument :

MSVOA\_U

ClientSampleId :

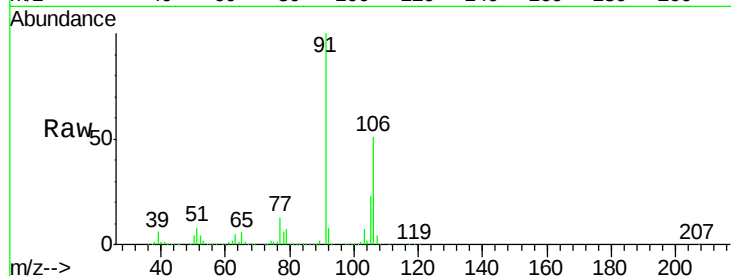
E3YF6

Tot Ion:106 Resp: 1643338

Ion Ratio Lower Upper

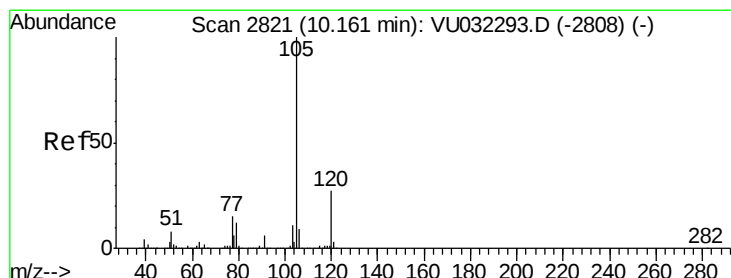
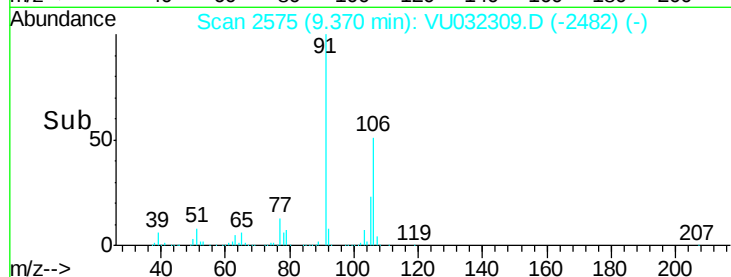
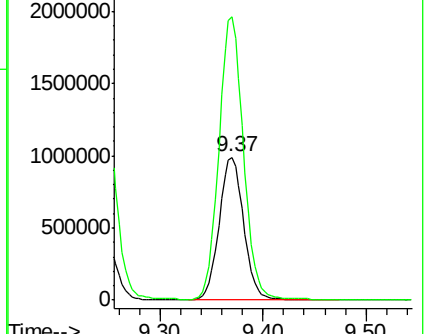
106 100

91 197.7 136.5 253.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#56

Isopropylbenzene

Concen: 3.671 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032309.D

Acq: 24 May 2019 13:26

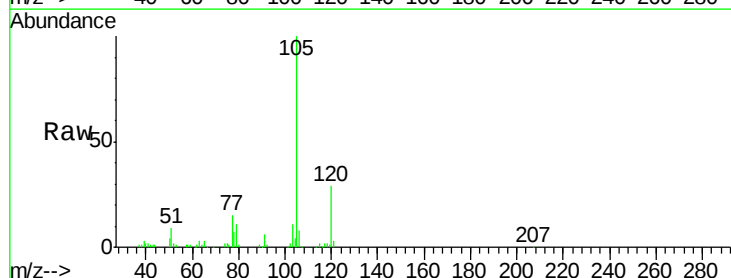
Tgt Ion:105 Resp: 81654

Ion Ratio Lower Upper

105 100

120 27.1 21.0 31.4

77 15.1 11.8 17.6



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

