

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060620\  
 Data File : VV016640.D  
 Acq On : 07 Jun 2020 13:17  
 Operator : SY/MD  
 Sample : L2861-07DL 100X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 67 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F9E39DL

Quant Time: Jun 08 07:48:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jun 08 05:42:16 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 350898   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 324318   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 154015   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 105802   | 42.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 85.14%  |
| 7) Chloroethane-d5             | 1.56    | 69    | 73709    | 41.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 82.16%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 141356   | 32.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 64.16%  |
| 21) 2-Butanone-d5              | 3.90    | 46    | 176263   | 110.91   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 110.91% |
| 24) Chloroform-d               | 4.37    | 84    | 229016   | 49.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 164720   | 52.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.48% |
| 32) Benzene-d6                 | 5.07    | 84    | 454211   | 52.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.56% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 143192   | 52.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 105.80% |
| 41) Toluene-d8                 | 7.34    | 98    | 406921   | 51.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 103.14% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 60833    | 46.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.22%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 124989   | 107.81   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 107.81% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 183480   | 49.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 99.96%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 163426   | 56.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 112.92% |

## Target Compounds

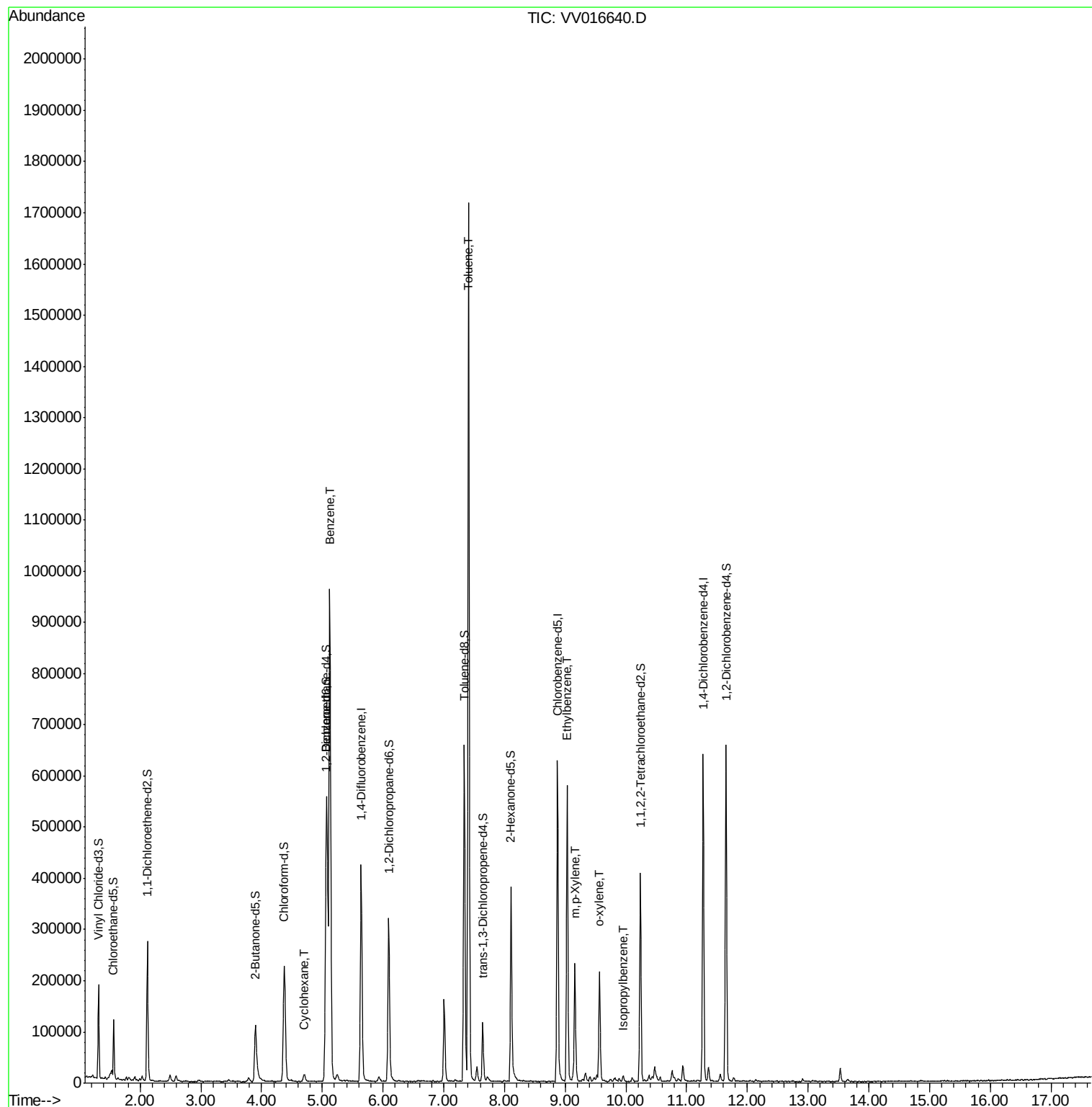
|                      |      |     |         |              | Ovalue |
|----------------------|------|-----|---------|--------------|--------|
| 29) Cyclohexane      | 4.70 | 56  | 7524    | 1.955 ug/L # | 93     |
| 33) Benzene          | 5.12 | 78  | 923535  | 96.825 ug/L  | 100    |
| 42) Toluene          | 7.41 | 91  | 1162826 | 115.051 ug/L | 100    |
| 52) Ethylbenzene     | 9.03 | 91  | 391776  | 35.615 ug/L  | 99     |
| 53) m,p-Xylene       | 9.16 | 106 | 62114   | 14.975 ug/L  | 99     |
| 54) o-xylene         | 9.57 | 106 | 54561   | 13.582 ug/L  | 97     |
| 56) Isopropylbenzene | 9.95 | 105 | 6887    | 0.660 ug/L # | 97     |

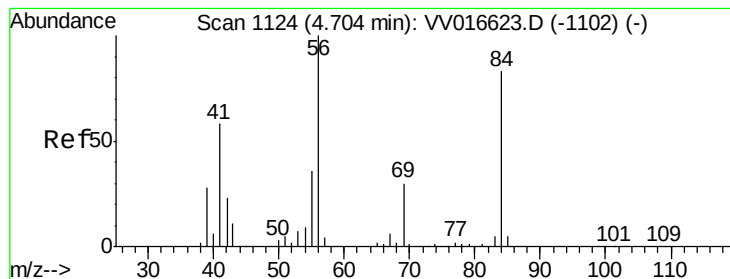
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060320WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Jun 08 05:42:16 2020  
Response via : Initial Calibration





#29

Cyclohexane

Concen: 1.955 ug/L

RT: 4.70 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VV016640.D

Acq: 07 Jun 2020 13:17

Instrument :

MSVOA\_V

ClientSampleId :

F9E39DL

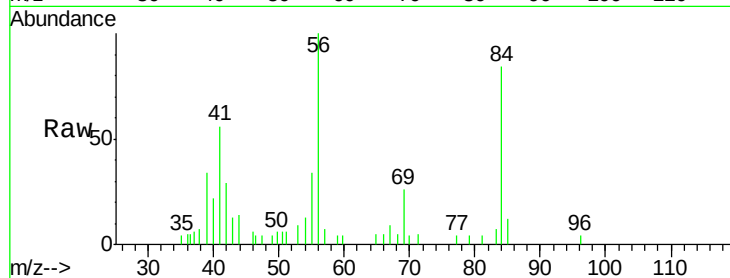
Tot Ion: 56 Resp: 7524

Ion Ratio Lower Upper

56 100

69 14.8 23.9 35.9#

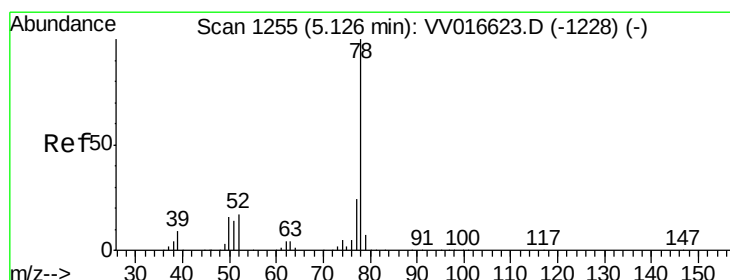
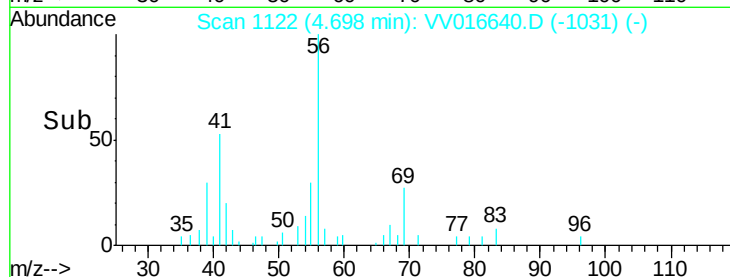
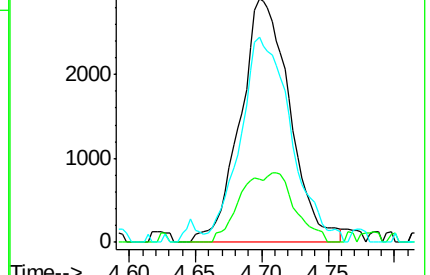
84 85.2 68.2 102.2



Abundance Ion 56.00 (55.70 to 56.70): VV016640.D (-1102) (-)

Ion 69.00 (68.70 to 69.70): VV016640.D (-1102) (-)

Ion 84.00 (83.70 to 84.70): VV016640.D (-1102) (-)



#33

Benzene

Concen: 96.825 ug/L

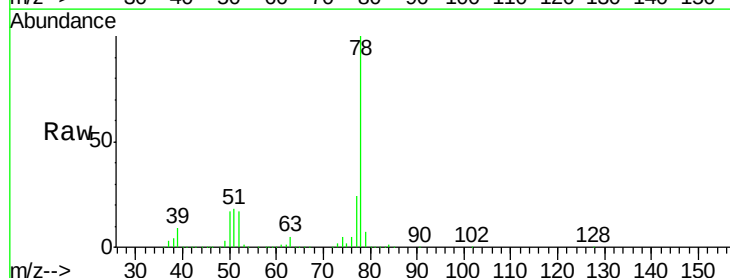
RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VV016640.D

Acq: 07 Jun 2020 13:17

Tgt Ion: 78 Resp: 923535



Abundance Ion 78.00 (77.70 to 78.70): VV016640.D (-1162) (-)

Ion 51.00 (50.70 to 51.70): VV016640.D (-1162) (-)

Ion 63.00 (62.70 to 63.70): VV016640.D (-1162) (-)

Ion 90.00 (89.70 to 90.70): VV016640.D (-1162) (-)

Ion 102.00 (101.70 to 102.70): VV016640.D (-1162) (-)

Ion 128.00 (127.70 to 128.70): VV016640.D (-1162) (-)

Ion 147.00 (146.70 to 147.70): VV016640.D (-1162) (-)

Ion 166.00 (165.70 to 166.70): VV016640.D (-1162) (-)

Ion 184.00 (183.70 to 184.70): VV016640.D (-1162) (-)

Ion 202.00 (201.70 to 202.70): VV016640.D (-1162) (-)

Ion 220.00 (219.70 to 220.70): VV016640.D (-1162) (-)

Ion 238.00 (237.70 to 238.70): VV016640.D (-1162) (-)

Ion 256.00 (255.70 to 256.70): VV016640.D (-1162) (-)

Ion 274.00 (273.70 to 274.70): VV016640.D (-1162) (-)

Ion 292.00 (291.70 to 292.70): VV016640.D (-1162) (-)

Ion 310.00 (309.70 to 310.70): VV016640.D (-1162) (-)

Ion 328.00 (327.70 to 328.70): VV016640.D (-1162) (-)

Ion 346.00 (345.70 to 346.70): VV016640.D (-1162) (-)

Ion 364.00 (363.70 to 364.70): VV016640.D (-1162) (-)

Ion 382.00 (381.70 to 382.70): VV016640.D (-1162) (-)

Ion 400.00 (399.70 to 400.70): VV016640.D (-1162) (-)

Ion 418.00 (417.70 to 418.70): VV016640.D (-1162) (-)

Ion 436.00 (435.70 to 436.70): VV016640.D (-1162) (-)

Ion 454.00 (453.70 to 454.70): VV016640.D (-1162) (-)

Ion 472.00 (471.70 to 472.70): VV016640.D (-1162) (-)

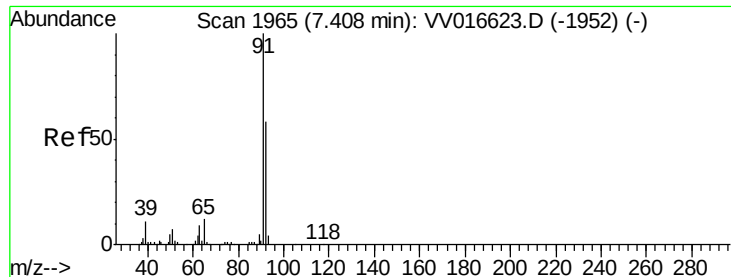
Ion 490.00 (489.70 to 490.70): VV016640.D (-1162) (-)

Ion 508.00 (507.70 to 508.70): VV016640.D (-1162) (-)

Ion 526.00 (525.70 to 526.70): VV016640.D (-1162) (-)

Ion 544.00 (543.70 to 544.70): VV016640.D (-1162) (-)

Ion 562.00 (561.70 to 562.70): VV016640.D (-1162) (-)



#42

Toluene

Concen: 115.051 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV016640.D

Acq: 07 Jun 2020 13:17

Instrument :

MSVOA\_V

ClientSampleId :

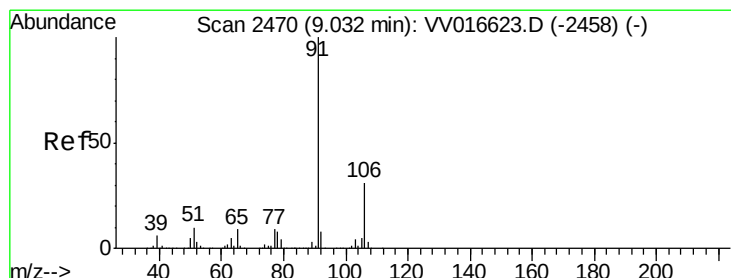
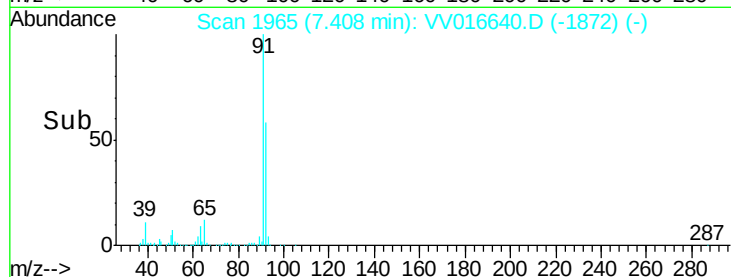
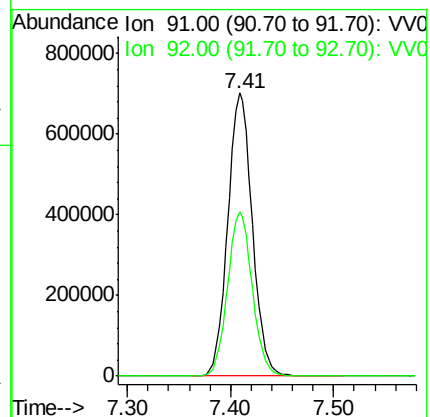
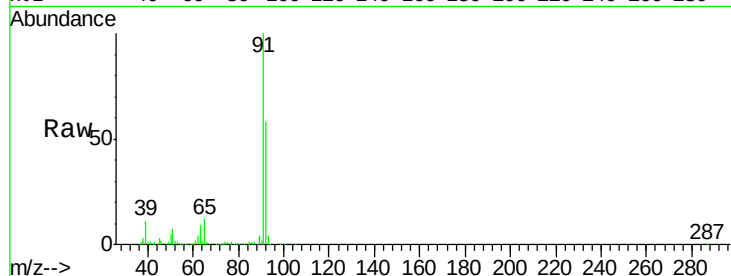
F9E39DL

Tot Ion: 91 Resp: 1162826

Ion Ratio Lower Upper

91 100

92 58.0 40.9 75.9



#52

Ethylbenzene

Concen: 35.615 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV016640.D

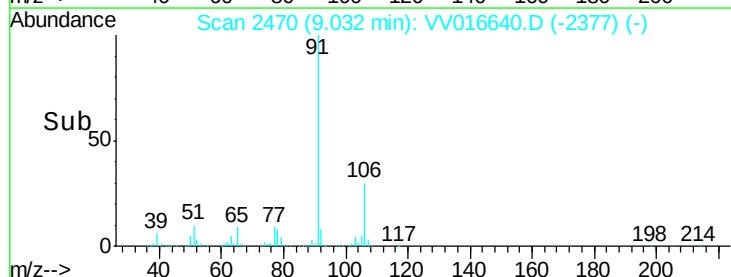
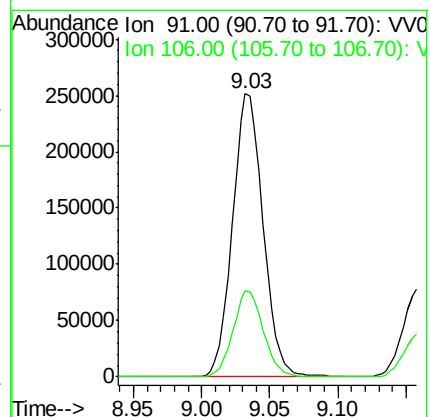
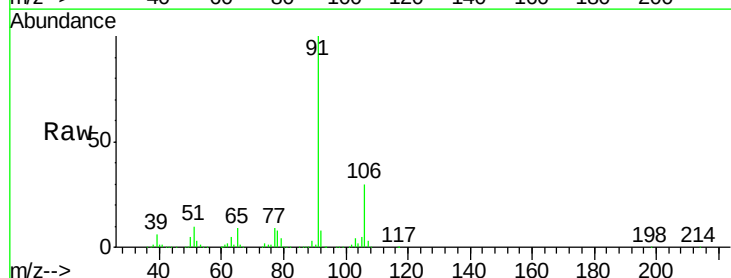
Acq: 07 Jun 2020 13:17

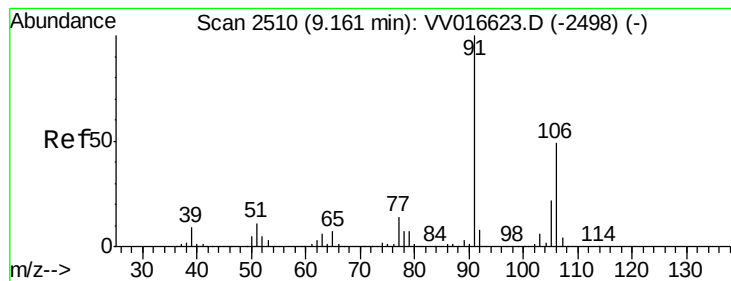
Tgt Ion: 91 Resp: 391776

Ion Ratio Lower Upper

91 100

106 30.3 21.8 40.4





#53

m,p-Xylene

Concen: 14.975 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. -0.00 min

Lab File: VV016640.D

Acq: 07 Jun 2020 13:17

Instrument :

MSVOA\_V

ClientSampled :

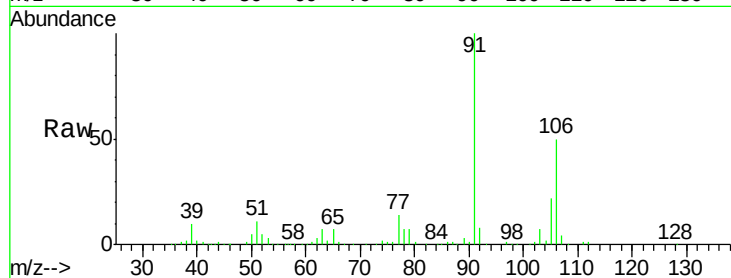
F9E39DL

Tot Ion:106 Resp: 62114

Ion Ratio Lower Upper

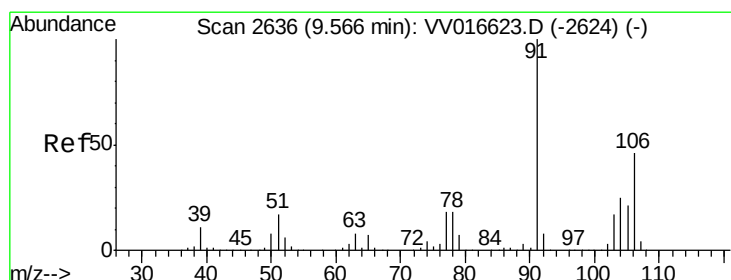
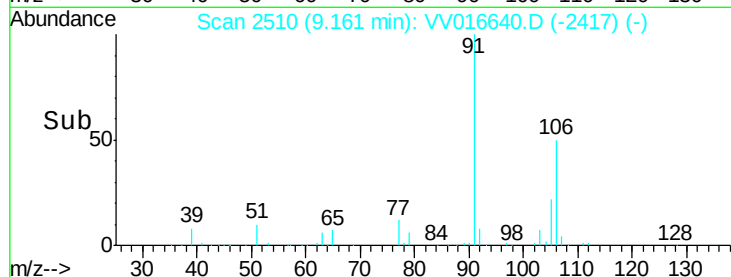
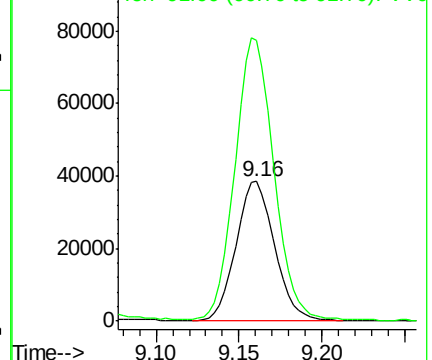
106 100

91 201.7 142.5 264.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 13.582 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. -0.00 min

Lab File: VV016640.D

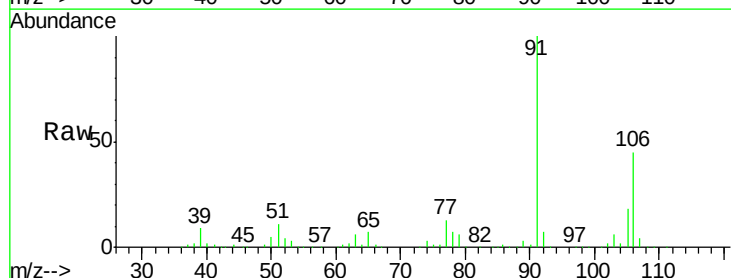
Acq: 07 Jun 2020 13:17

Tgt Ion:106 Resp: 54561

Ion Ratio Lower Upper

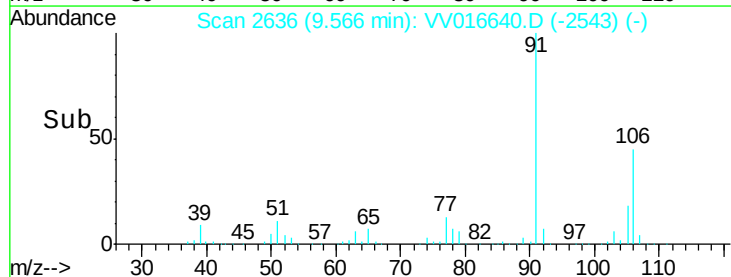
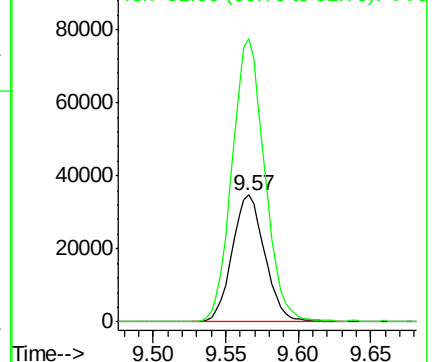
106 100

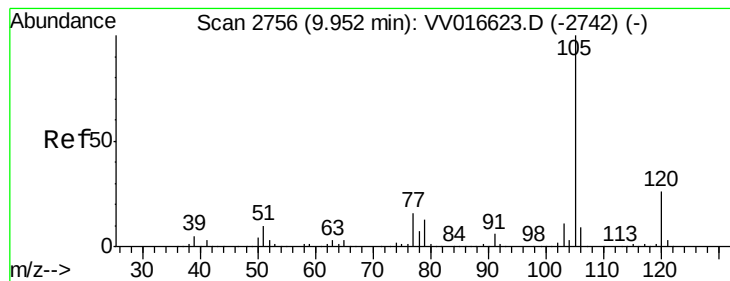
91 223.2 152.5 283.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#56

Isopropylbenzene

Concen: 0.660 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

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Instrument :

MSVOA\_V

ClientSampleId :

F9E39DL

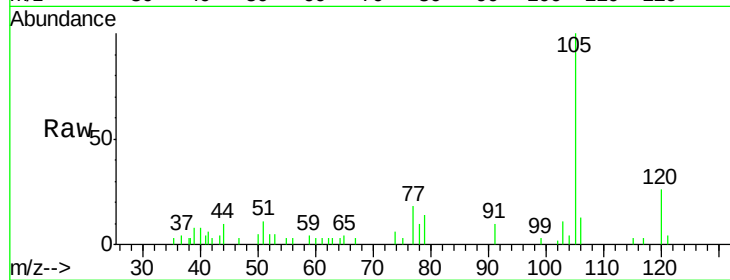
Tot Ion:105 Resp: 6887

Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.6

77 12.7 13.0 19.4#



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): V

