

Data File : VU031364.D  
Acq On : 19 Apr 2019 17:11  
Operator : JC/SP  
Sample : K2402-05 5X  
Misc : 5.04g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GAHH7

Quant Time: Apr 19 23:16:10 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM041719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Apr 19 23:12:12 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 665738   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 551555   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 281988   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 201530   | 32.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 65.74%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 175406   | 32.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 65.90%# |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 315141   | 25.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 51.90%# |
| 21) 2-Butanone-d5              | 4.20    | 46    | 466269   | 104.42   | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 104.42% |
| 24) Chloroform-d               | 4.64    | 84    | 426853   | 41.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.46%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 266033   | 42.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 84.46%  |
| 32) Benzene-d6                 | 5.34    | 84    | 893405   | 51.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.48% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 263208   | 46.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.02%  |
| 41) Toluene-d8                 | 7.56    | 98    | 684273   | 44.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.20%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 119761   | 44.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 88.54%  |
| 47) 2-Hexanone-d5              | 8.32    | 63    | 280290   | 104.92   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 104.92% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 379294   | 48.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.56%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 309120   | 47.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.60%  |

#### Target Compounds

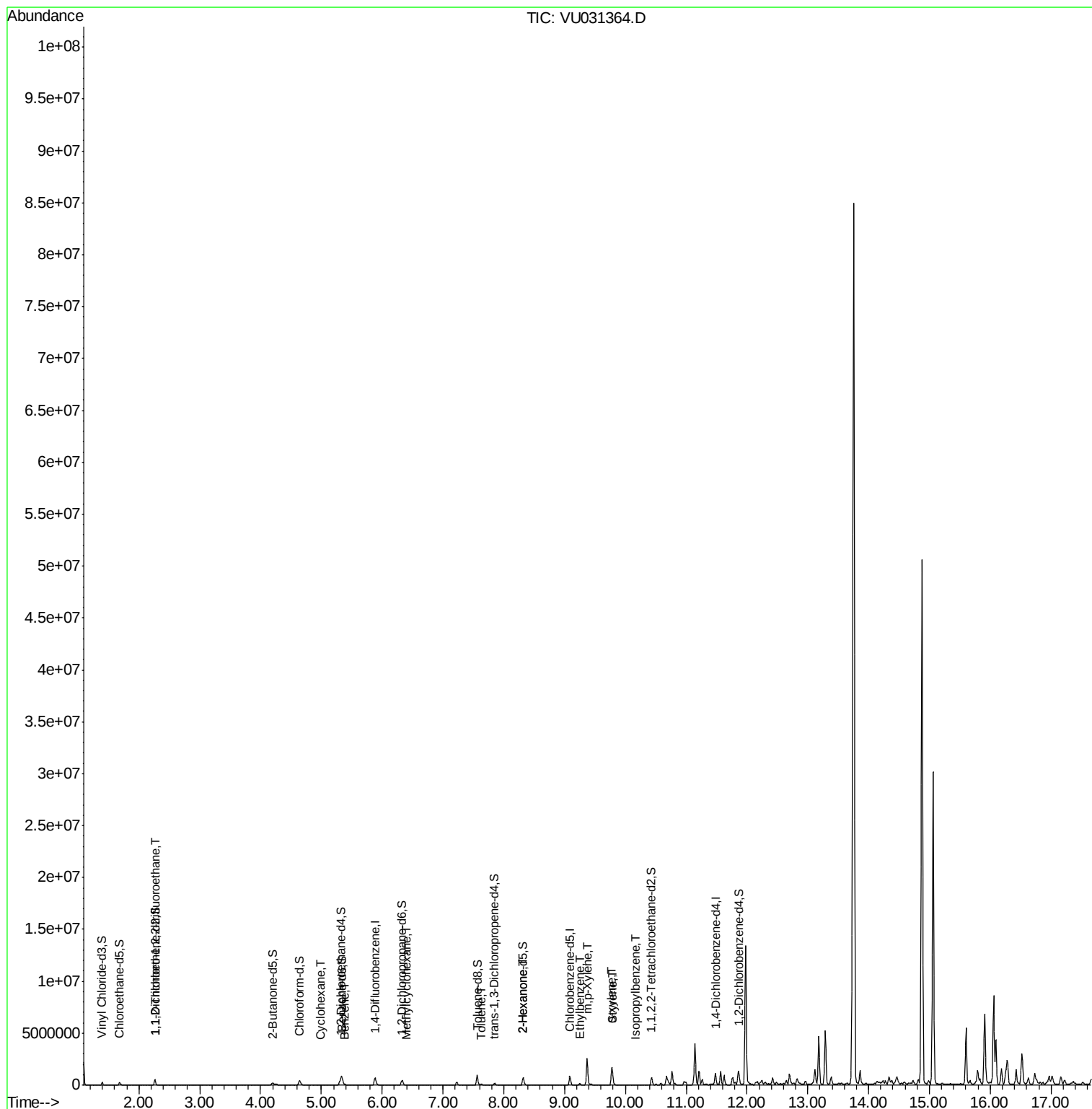
|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.26  | 101 | 3030   | 0.571 ug/L # | 20     |
| 29) Cyclohexane                | 4.99  | 56  | 12832  | 1.654 ug/L   | 90     |
| 33) Benzene                    | 5.39  | 78  | 46927  | 2.530 ug/L   | 100    |
| 35) Methylcyclohexane          | 6.41  | 83  | 17703  | 2.562 ug/L   | 95     |
| 42) Toluene                    | 7.64  | 91  | 60432  | 3.275 ug/L   | 92     |
| 48) 2-Hexanone                 | 8.32  | 43  | 30666  | 5.563 ug/L # | 73     |
| 52) Ethylbenzene               | 9.25  | 91  | 104897 | 5.222 ug/L   | 98     |
| 53) m,p-Xylene                 | 9.37  | 106 | 783520 | 110.523 ug/L | 99     |
| 54) o-xylene                   | 9.78  | 106 | 408223 | 56.863 ug/L  | 97     |
| 55) Styrene                    | 9.79  | 104 | 324258 | 26.757 ug/L  | 98     |
| 56) Isopropylbenzene           | 10.16 | 105 | 24407  | 1.326 ug/L # | 85     |

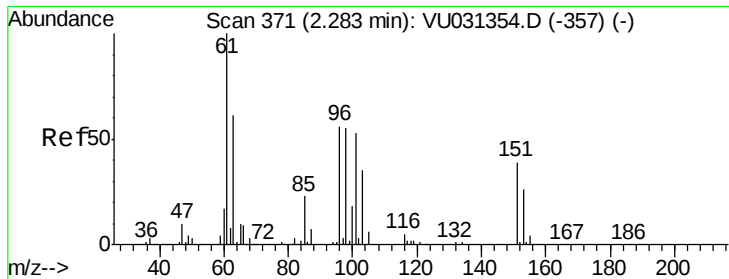
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.571 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.02 min

Lab File: VU031364.D

Acq: 19 Apr 2019 17:11

Instrument :

MSVOA\_U

ClientSampleId :

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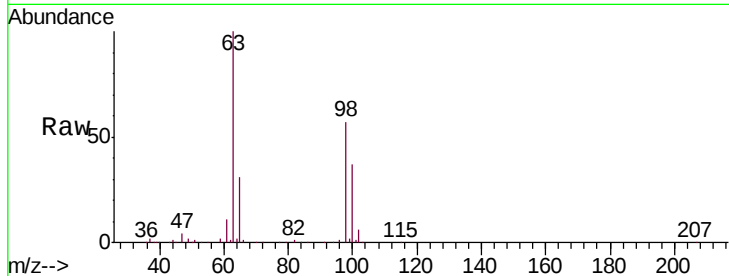
Tgt Ion: 101 Resp: 3030

Ion Ratio Lower Upper

101 100

85 1.6 35.4 53.0#

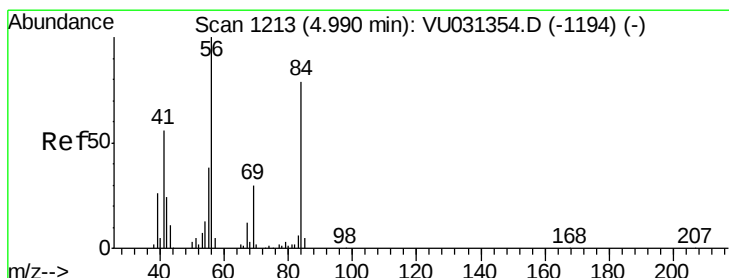
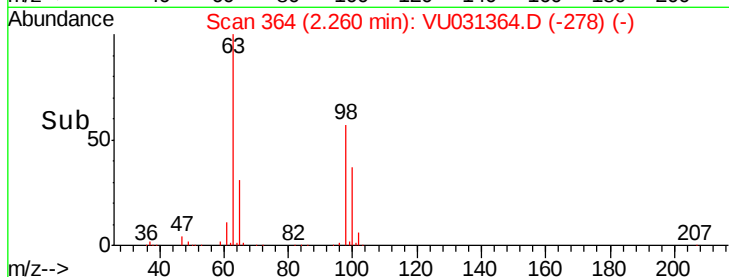
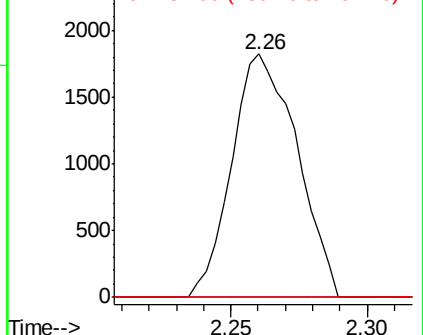
151 0.0 59.8 89.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#29

Cyclohexane

Concen: 1.654 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU031364.D

Acq: 19 Apr 2019 17:11

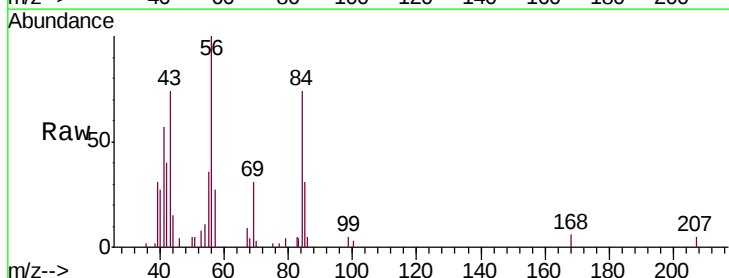
Tgt Ion: 56 Resp: 12832

Ion Ratio Lower Upper

56 100

69 23.5 23.0 34.6

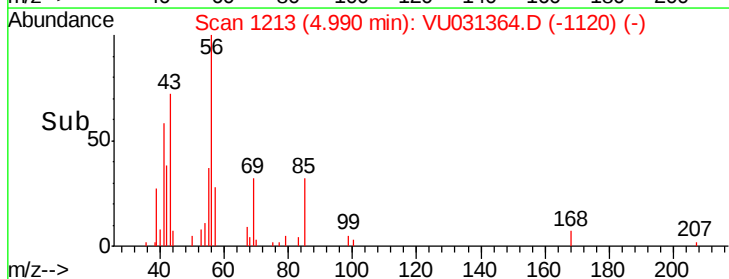
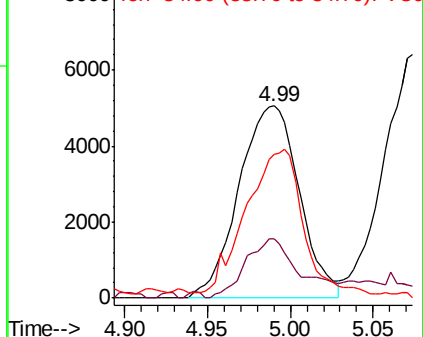
84 68.8 61.8 92.6

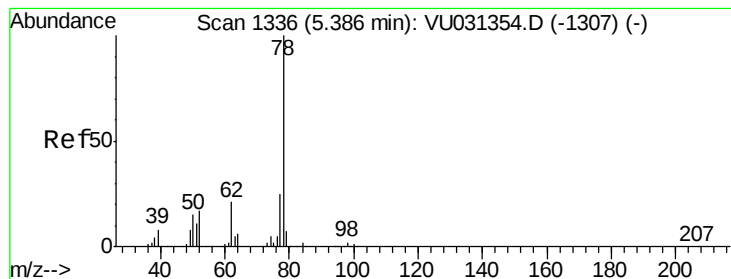


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0





#33

Benzene

Concen: 2.530 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU031364.D

Acq: 19 Apr 2019 17:11

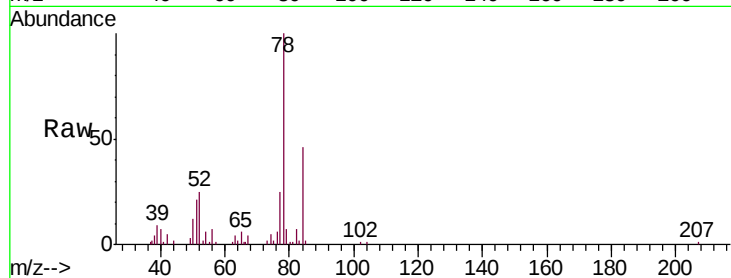
Instrument :

MSVOA\_U

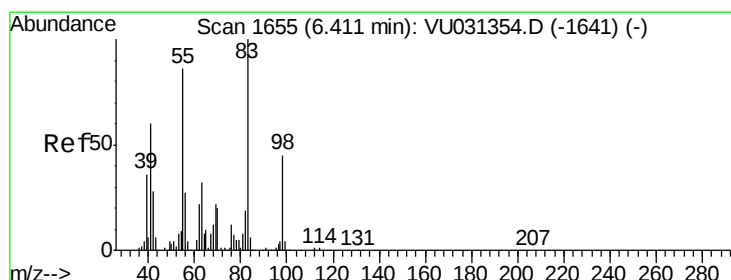
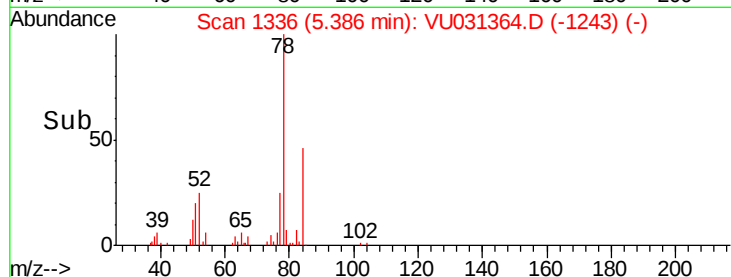
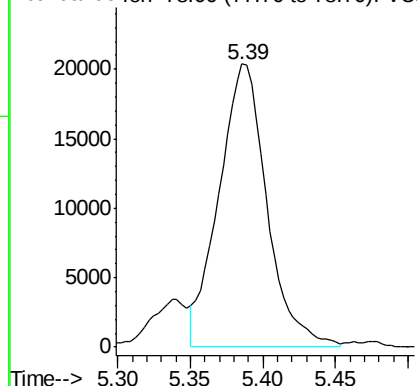
ClientSampleId :

GAHH7

Tgt Ion: 78 Resp: 46927



Abundance Ion 78.00 (77.70 to 78.70): VU0



#35

Methylcyclohexane

Concen: 2.562 ug/L

RT: 6.41 min Scan# 1655

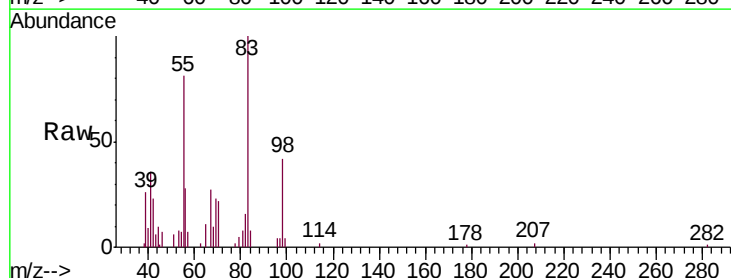
Delta R.T. -0.00 min

Lab File: VU031364.D

Acq: 19 Apr 2019 17:11

Tgt Ion: 83 Resp: 17703

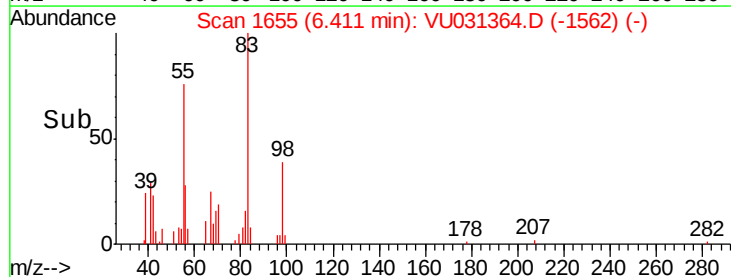
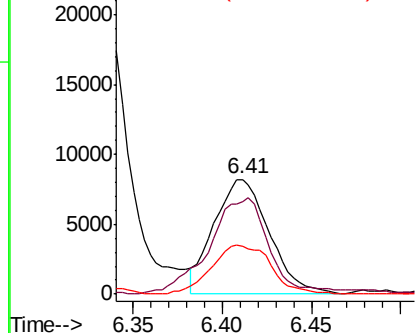
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 90.6  | 67.0  | 100.4 |
| 98  | 45.6  | 36.9  | 55.3  |

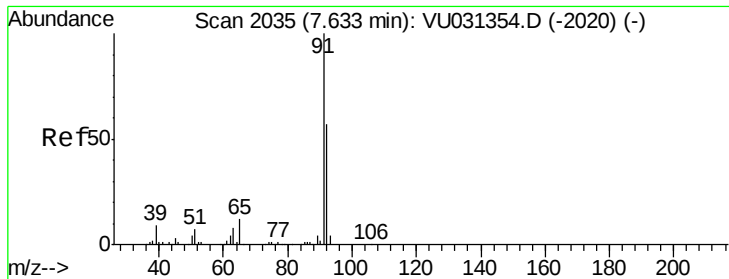


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#42

Toluene

Concen: 3.275 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU031364.D

Acq: 19 Apr 2019 17:11

Instrument :

MSVOA\_U

ClientSampleId :

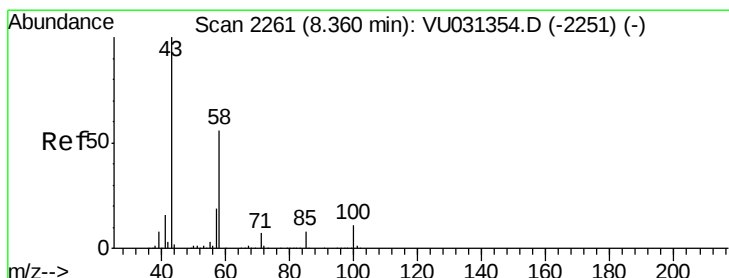
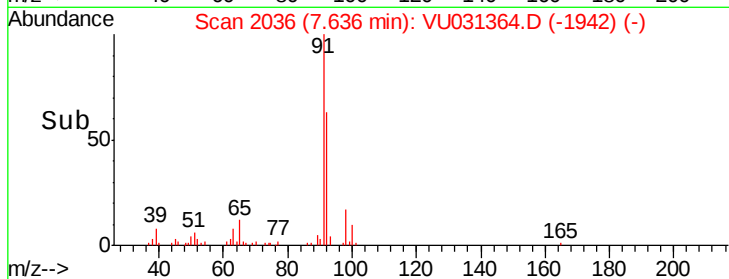
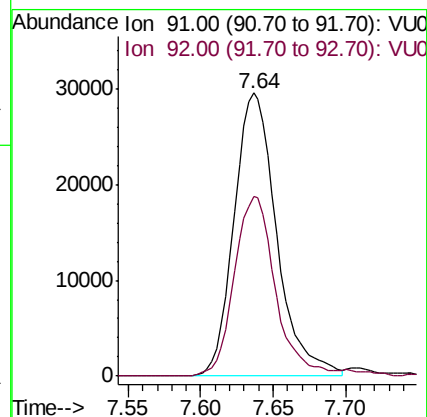
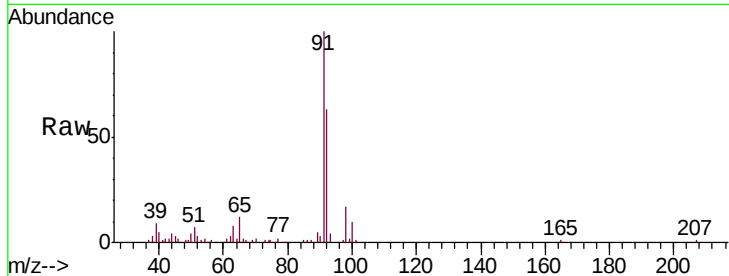
GAHH7

Tgt Ion: 91 Resp: 60432

Ion Ratio Lower Upper

91 100

92 63.3 40.1 74.5



#48

2-Hexanone

Concen: 5.563 ug/L

RT: 8.32 min Scan# 2248

Delta R.T. -0.04 min

Lab File: VU031364.D

Acq: 19 Apr 2019 17:11

Tgt Ion: 43 Resp: 30666

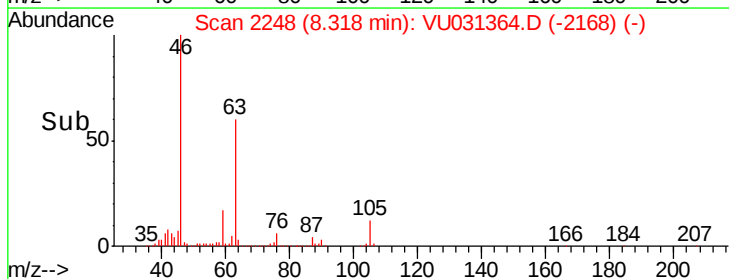
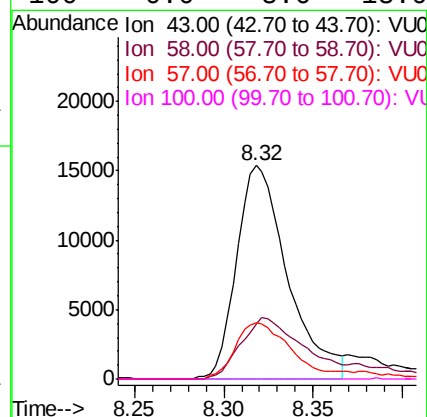
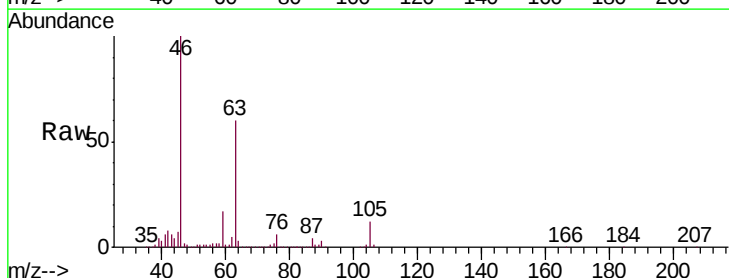
Ion Ratio Lower Upper

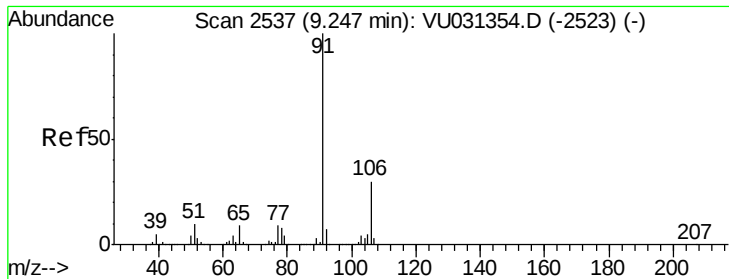
43 100

58 35.5 44.9 67.3#

57 28.4 15.1 22.7#

100 0.0 8.6 13.0#

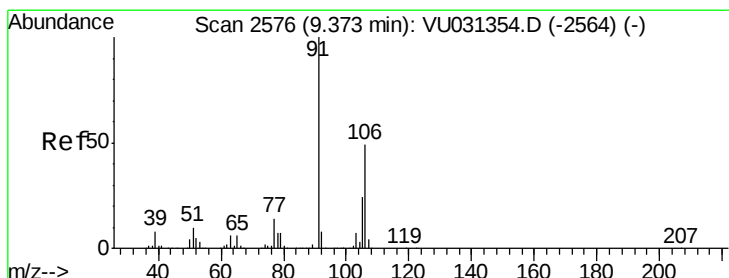
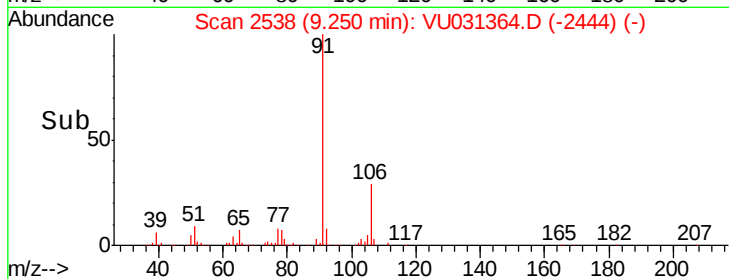
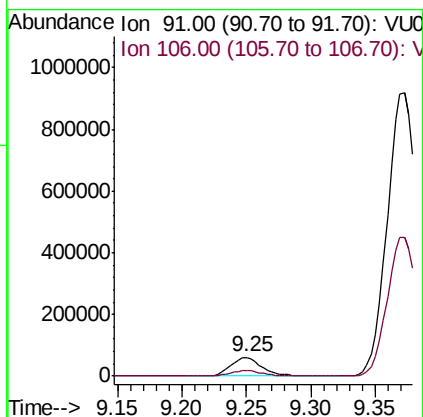
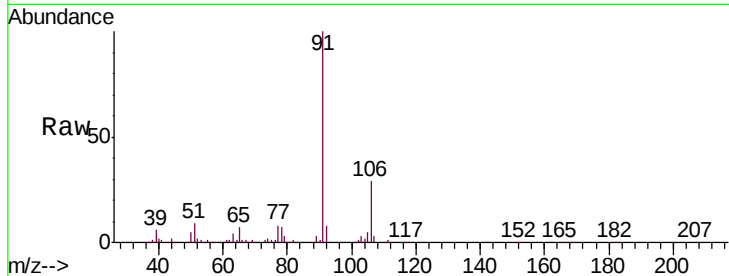




#52  
Ethylbenzene  
Concen: 5.222 ug/L  
RT: 9.25 min Scan# 2538  
Delta R.T. 0.00 min  
Lab File: VU031364.D  
Acq: 19 Apr 2019 17:11

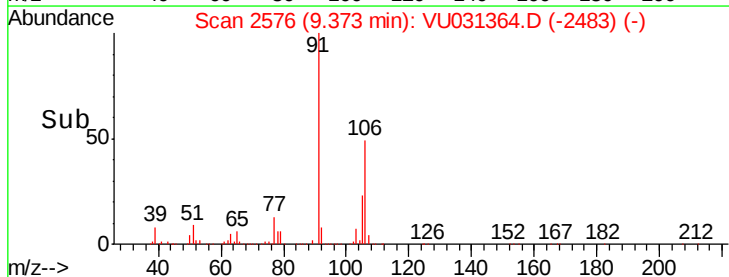
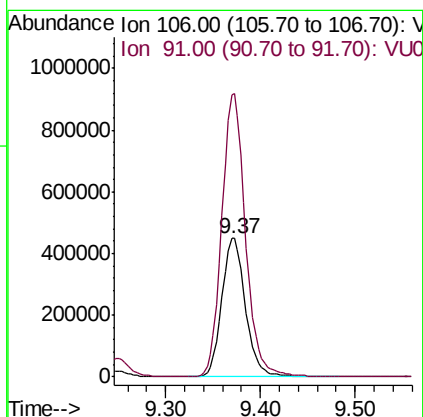
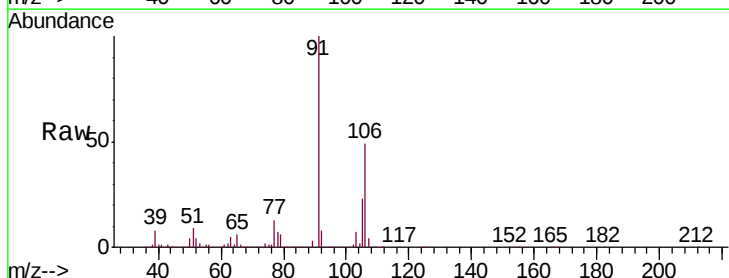
Instrument :  
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ClientSampleId :  
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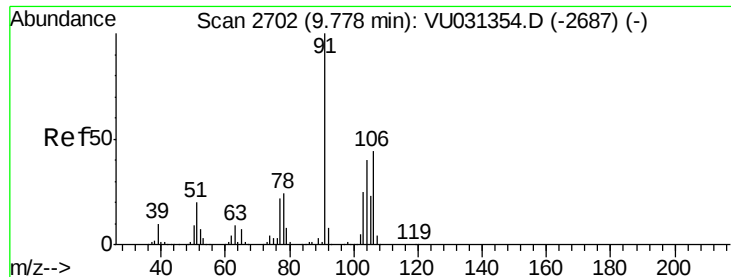
Tgt Ion: 91 Resp: 104897  
Ion Ratio Lower Upper  
91 100  
106 28.7 20.9 38.7



#53  
m,p-Xylene  
Concen: 110.523 ug/L  
RT: 9.37 min Scan# 2576  
Delta R.T. -0.00 min  
Lab File: VU031364.D  
Acq: 19 Apr 2019 17:11

Tgt Ion: 106 Resp: 783520  
Ion Ratio Lower Upper  
106 100  
91 204.2 144.5 268.4





#54

o-xylene

Concen: 56.863 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VU031364.D

Acq: 19 Apr 2019 17:11

Instrument :

MSVOA\_U

ClientSampleId :

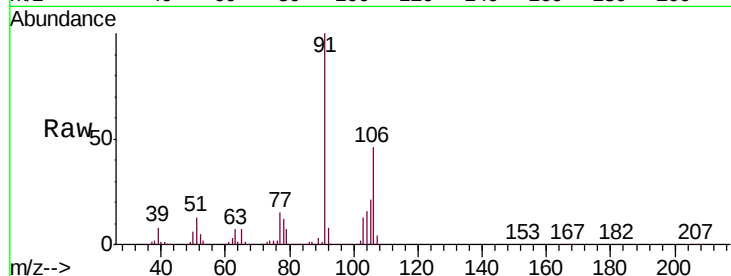
GAHH7

Tgt Ion:106 Resp: 408223

Ion Ratio Lower Upper

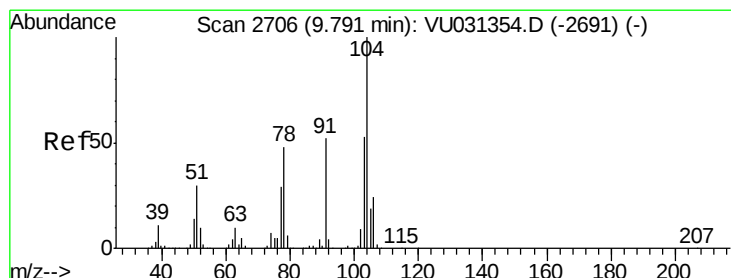
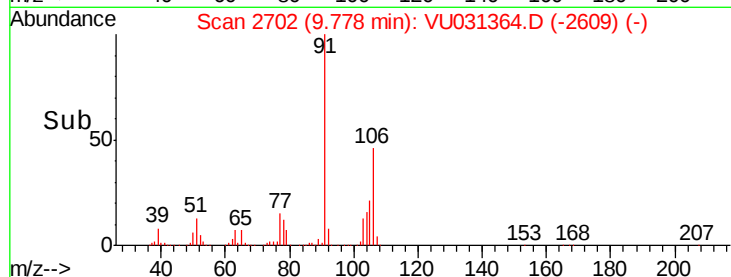
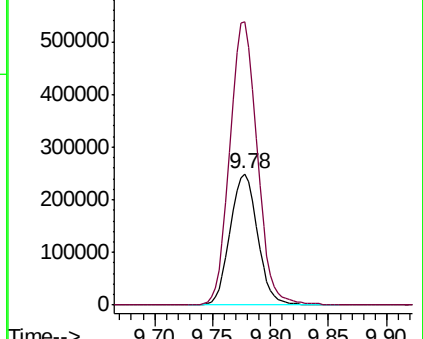
106 100

91 215.8 154.3 286.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 26.757 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. -0.00 min

Lab File: VU031364.D

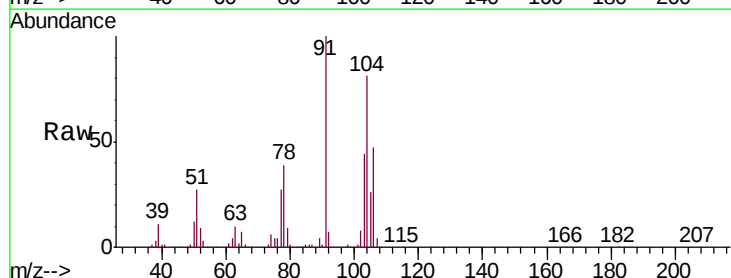
Acq: 19 Apr 2019 17:11

Tgt Ion:104 Resp: 324258

Ion Ratio Lower Upper

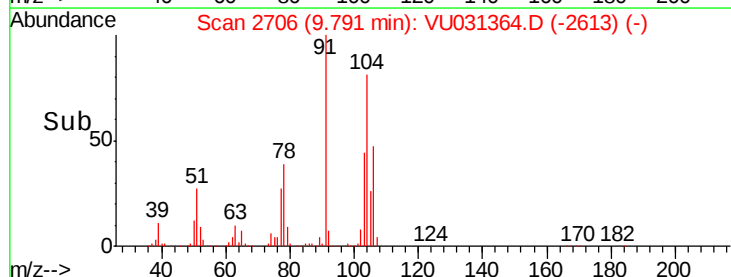
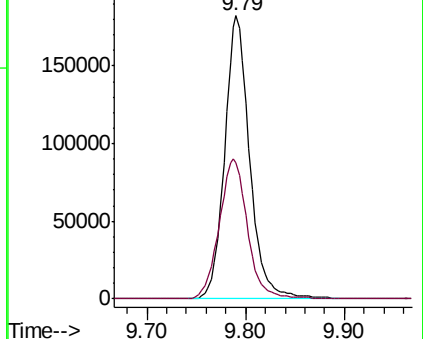
104 100

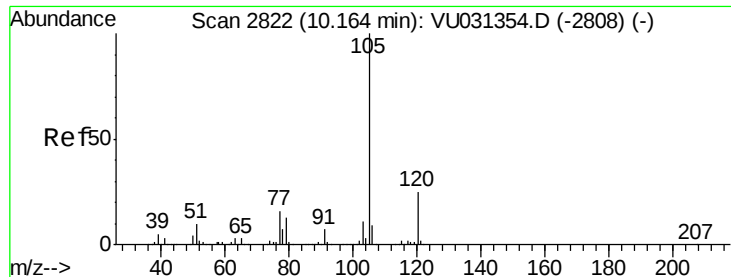
78 48.0 32.8 61.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.326 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

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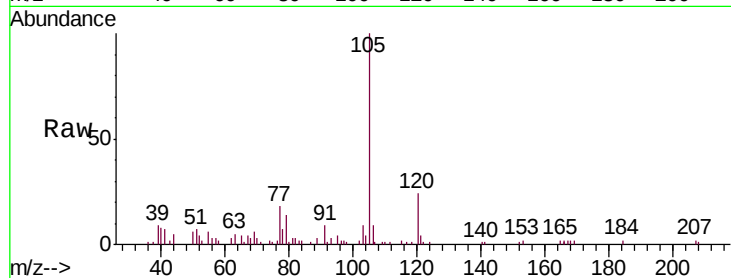
Tgt Ion:105 Resp: 24407

Ion Ratio Lower Upper

105 100

120 14.6 20.6 31.0#

77 14.8 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): VU

