

Data File : VV016535.D  
Acq On : 05 Jun 2020 14:55  
Operator : SY/MD  
Sample : L2861-07  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9E39

Manual Integrations  
APPROVED

sam  
6/6/2020 11:32:18 AM

Quant Time: Jun 06 01:40:29 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060320WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jun 06 00:07:58 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 385209   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.88  | 117  | 379617   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 196243   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 111133   | 40.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 81.46% |
| 7) Chloroethane-d5             | 1.56    | 69    | 77994    | 39.60    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 79.20% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 183304   | 37.90    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 75.80% |
| 21) 2-Butanone-d5              | 3.89    | 46    | 168352   | 96.50    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 96.50% |
| 24) Chloroform-d               | 4.37    | 84    | 219746   | 42.92    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.84% |
| 26) 1,2-Dichloroethane-d4      | 5.07    | 65    | 159641   | 46.56    | ug/L | 0.01   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.12% |
| 32) Benzene-d6                 | 5.08    | 84    | 445141   | 43.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.54% |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 134022   | 42.30    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 84.60% |
| 41) Toluene-d8                 | 7.35    | 98    | 411087   | 44.51    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.02% |
| 43) trans-1,3-Dichloropropene- | 7.65    | 79    | 59025    | 38.22    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.44% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 126256   | 93.04    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.04% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 171546   | 39.92    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 79.84% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 166789   | 45.23    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.46% |

#### Target Compounds

|                       |      |     |           |          |      | Qvalue |
|-----------------------|------|-----|-----------|----------|------|--------|
| 13) Acetone           | 2.18 | 43  | 8071      | 4.950    | ug/L | 97     |
| 22) 2-Butanone        | 4.00 | 43  | 13520m    | 6.682    | ug/L |        |
| 29) Cyclohexane       | 4.70 | 56  | 833304    | 184.950  | ug/L | 100    |
| 33) Benzene           | 5.12 | 78  | 36272361m | 3248.909 | ug/L |        |
| 35) Methylcyclohexane | 6.16 | 83  | 133289    | 31.698   | ug/L | 97     |
| 42) Toluene           | 7.41 | 91  | 36217130m | 3061.368 | ug/L |        |
| 52) Ethylbenzene      | 9.04 | 91  | 22254475m | 1728.370 | ug/L |        |
| 53) m,p-Xylene        | 9.17 | 106 | 6441130   | 1326.665 | ug/L | 92     |
| 54) o-xylene          | 9.57 | 106 | 5623864   | 1196.024 | ug/L | 92     |
| 56) Isopropylbenzene  | 9.95 | 105 | 831758    | 68.100   | ug/L | 100    |

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

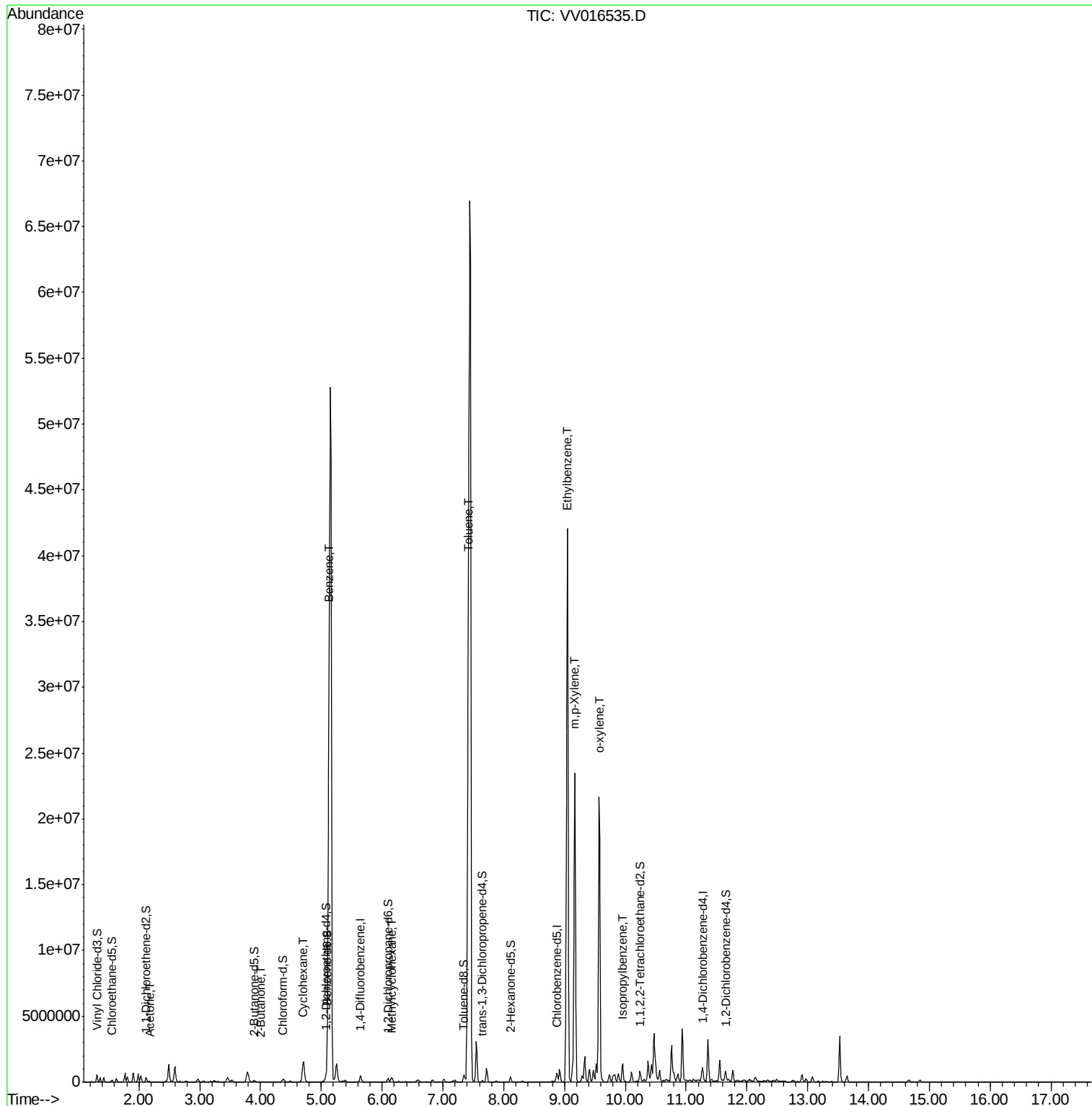
Data File : VV016535.D  
Acq On : 05 Jun 2020 14:55  
Operator : SY/MD  
Sample : L2861-07  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 13 Sample Multiplier: 1

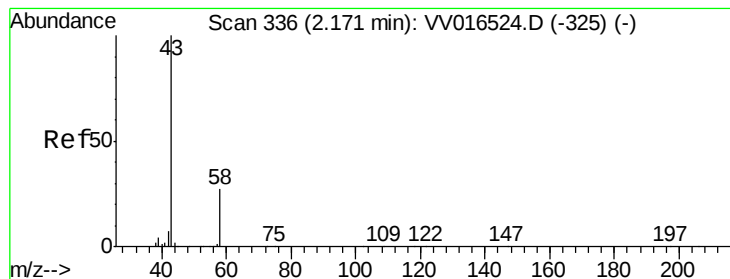
Instrument :  
MSVOA\_V  
ClientSampleId :  
F9E39

Manual Integrations  
APPROVED

sam  
6/6/2020 11:32:18 AM

Quant Time: Jun 06 01:40:29 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060320WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jun 06 00:07:58 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 4.950 ug/L

RT: 2.18 min Scan# 338

Delta R.T. 0.01 min

Lab File: VV016535.D

Acq: 05 Jun 2020 14:55

Instrument :

MSVOA\_V

ClientSampled :

F9E39

Tgt Ion: 43 Resp: 8071

Ion Ratio Lower Upper

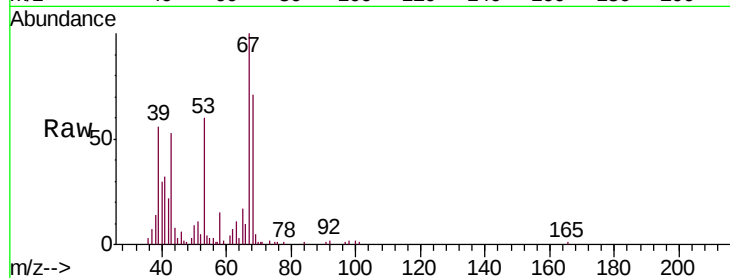
43 100

58 27.1 0.0 57.2

Manual Integrations  
APPROVED

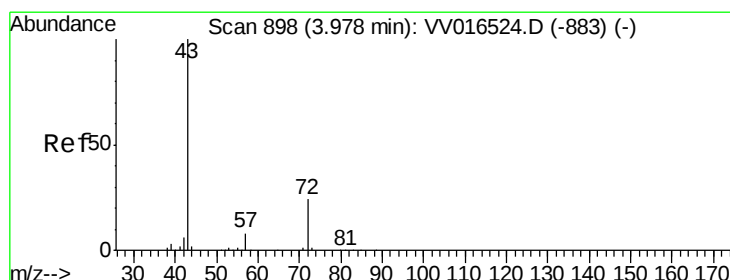
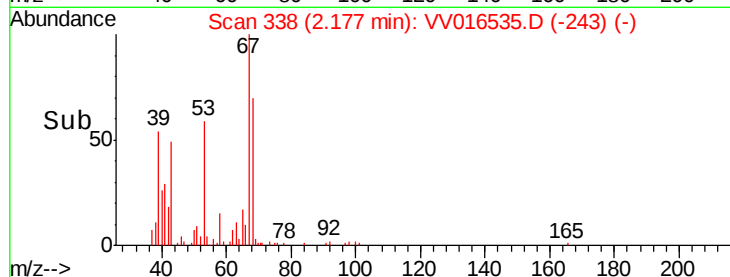
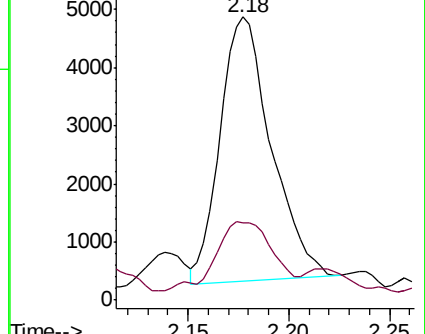
sam

6/6/2020 11:32:18 AM



Abundance Ion 43.00 (42.70 to 43.70): VV016524.D (-325) (-)

Ion 58.00 (57.70 to 58.70): VV016524.D (-325) (-)



#22

2-Butanone

Concen: 6.682 ug/L m

RT: 4.00 min Scan# 905

Delta R.T. 0.02 min

Lab File: VV016535.D

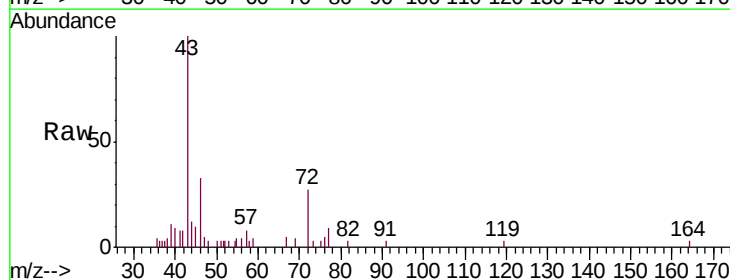
Acq: 05 Jun 2020 14:55

Tgt Ion: 43 Resp: 13520

Ion Ratio Lower Upper

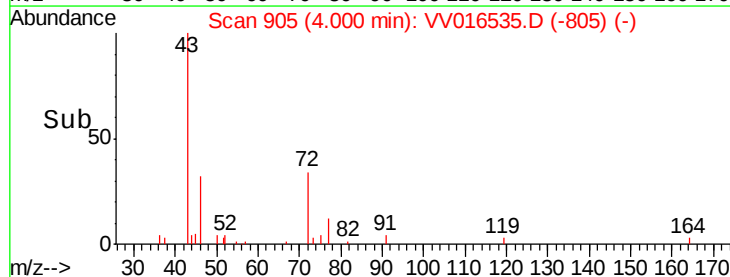
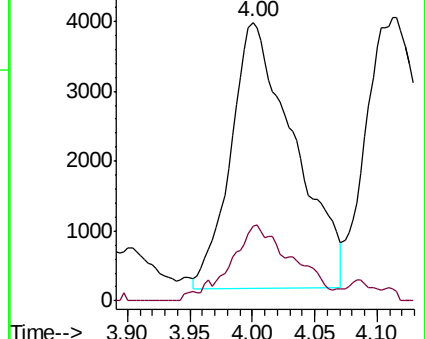
43 100

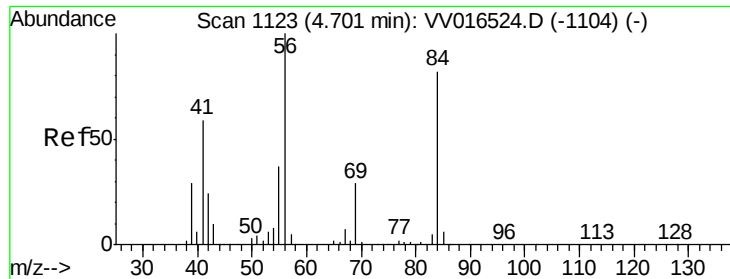
72 0.7 12.8 38.3#



Abundance Ion 43.00 (42.70 to 43.70): VV016524.D (-883) (-)

Ion 72.00 (71.70 to 72.70): VV016524.D (-883) (-)





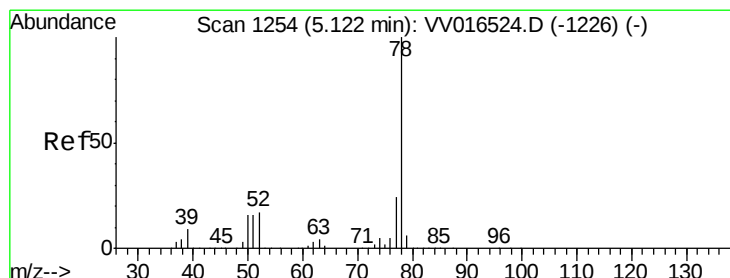
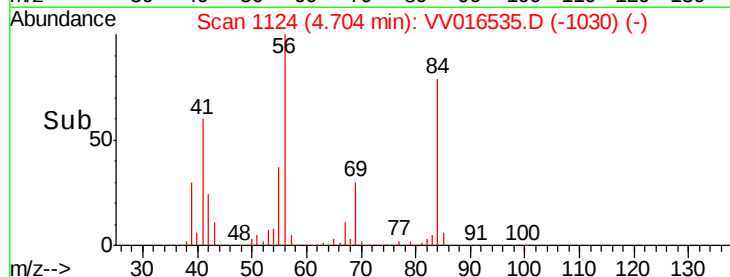
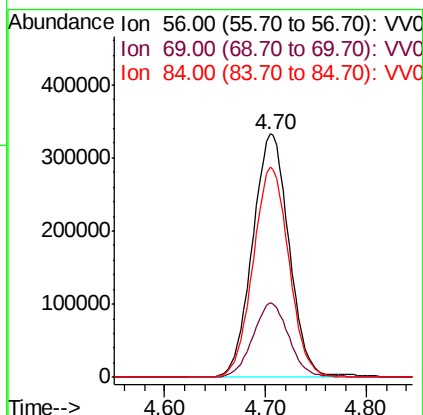
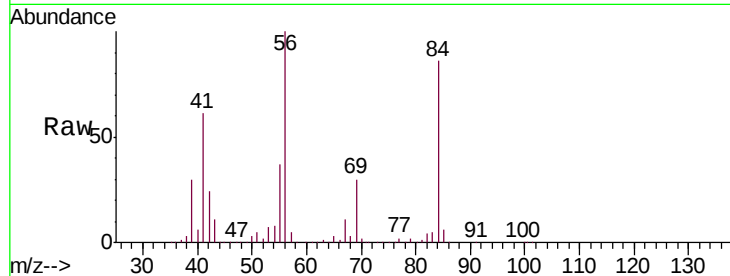
#29  
Cyclohexane  
Concen: 184.950 ug/L  
RT: 4.70 min Scan# 1124  
Delta R.T. 0.00 min  
Lab File: VV016535.D  
Acq: 05 Jun 2020 14:55

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9E39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 30.2  | 23.9  | 35.9  |
| 84      | 85.0  | 68.2  | 102.2 |

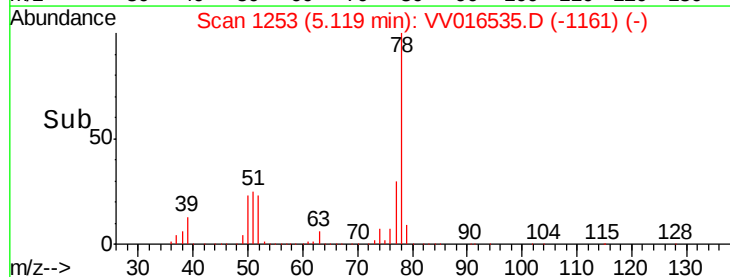
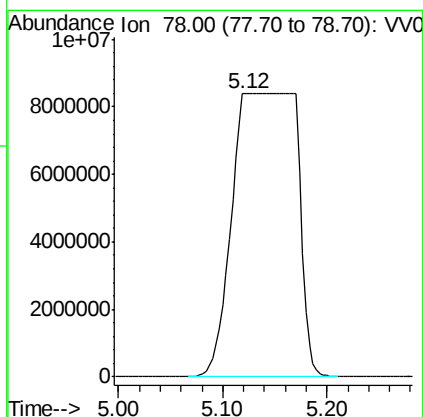
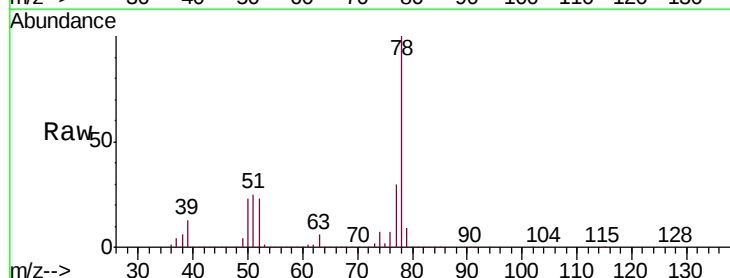
Manual Integrations  
APPROVED

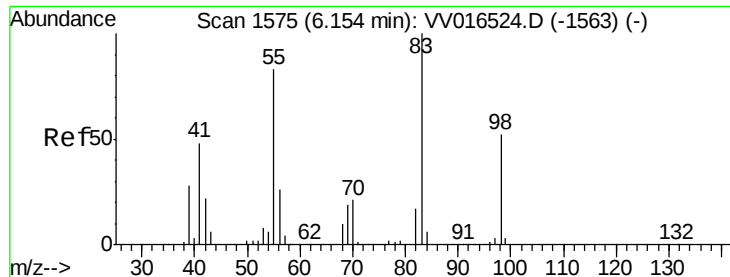
sam  
6/6/2020 11:32:18 AM



#33  
Benzene  
Concen: 3248.909 ug/L m  
RT: 5.12 min Scan# 1253  
Delta R.T. -0.00 min  
Lab File: VV016535.D  
Acq: 05 Jun 2020 14:55

Tgt Ion: 78 Resp:36272361





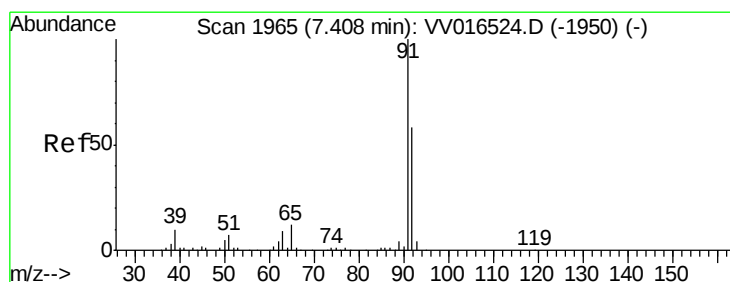
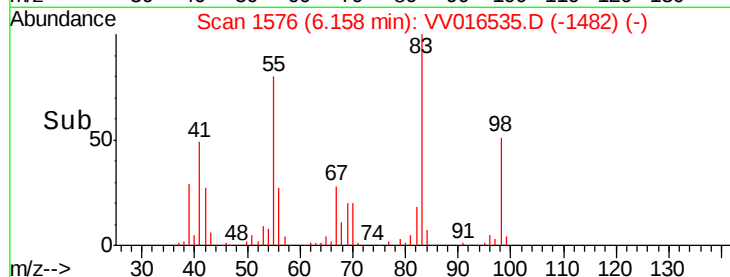
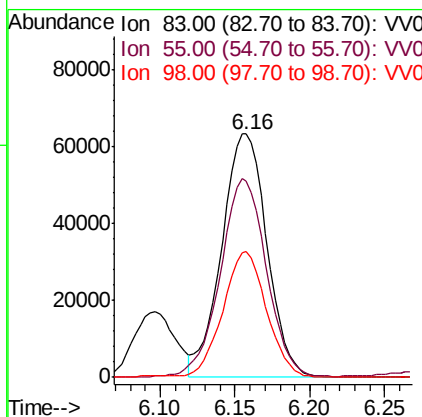
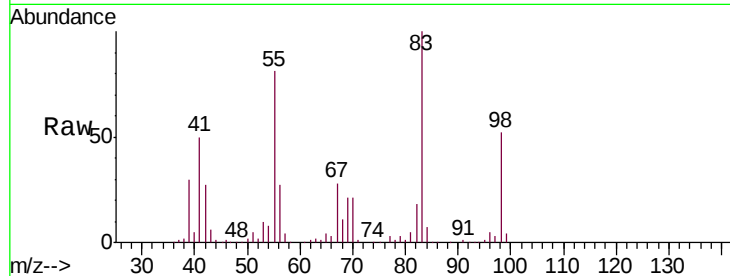
#35  
Methylcyclohexane  
Concen: 31.698 ug/L  
RT: 6.16 min Scan# 1576  
Delta R.T. 0.00 min  
Lab File: VV016535.D  
Acq: 05 Jun 2020 14:55

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9E39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 82.6  | 63.4  | 95.0  |
| 98      | 49.9  | 39.4  | 59.0  |

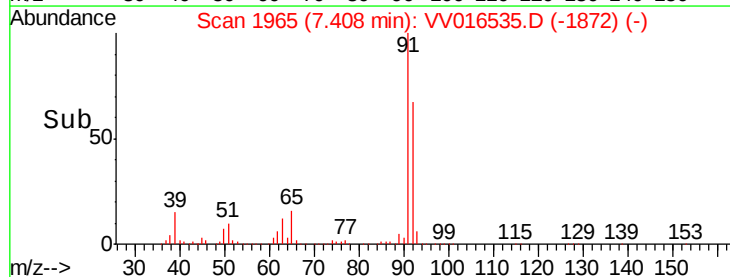
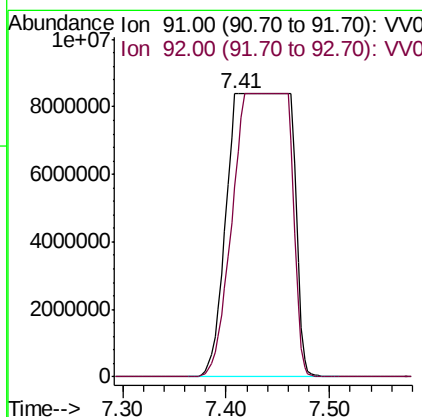
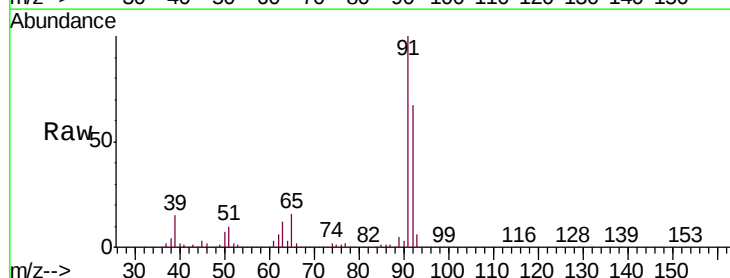
Manual Integrations  
APPROVED

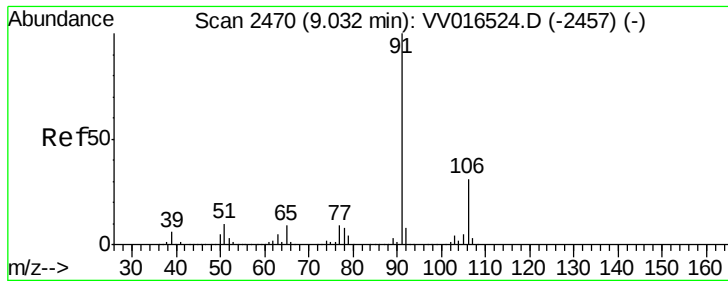
sam  
6/6/2020 11:32:18 AM



#42  
Toluene  
Concen: 3061.368 ug/L m  
RT: 7.41 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VV016535.D  
Acq: 05 Jun 2020 14:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 67.2  | 40.9  | 75.9  |





#52

Ethylbenzene

Concen: 1728.370 ug/L m

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV016535.D

Acq: 05 Jun 2020 14:55

Instrument :

MSVOA\_V

ClientSampleId :

F9E39

Tgt Ion: 91 Resp: 22254475

Ion Ratio Lower Upper

91 100

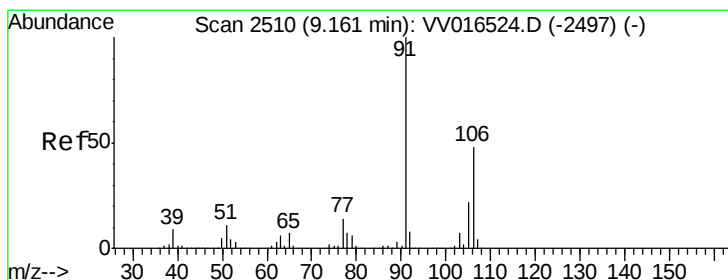
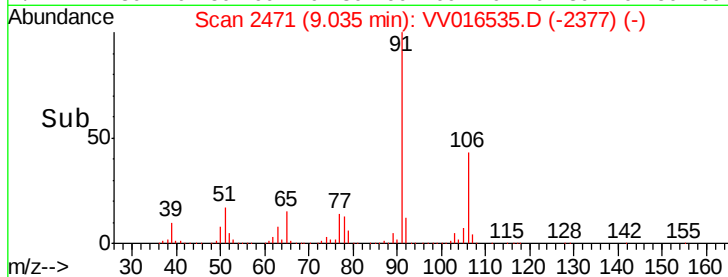
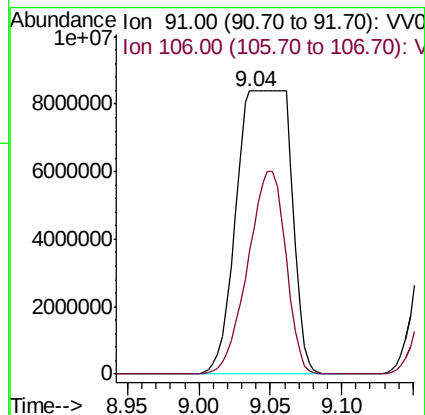
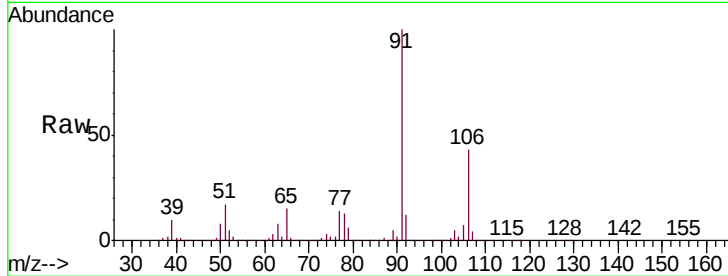
106 43.0 21.8 40.4#

Manual Integrations

APPROVED

sam

6/6/2020 11:32:18 AM



#53

m,p-Xylene

Concen: 1326.665 ug/L

RT: 9.17 min Scan# 2513

Delta R.T. 0.01 min

Lab File: VV016535.D

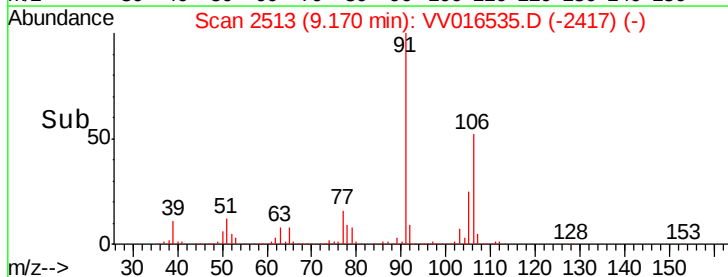
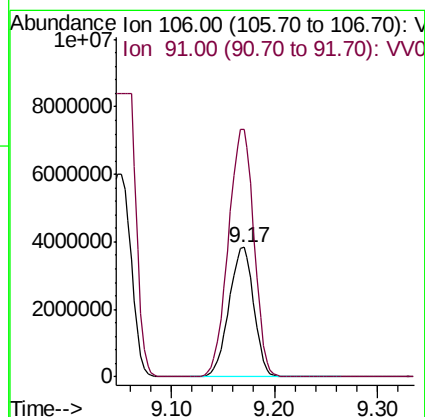
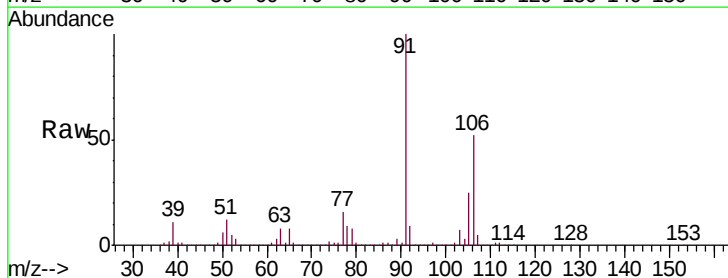
Acq: 05 Jun 2020 14:55

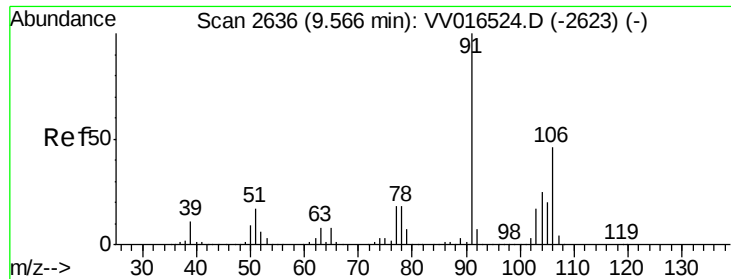
Tgt Ion: 106 Resp: 6441130

Ion Ratio Lower Upper

106 100

91 191.1 142.5 264.6





#54

o-xylene

Concen: 1196.024 ug/L

RT: 9.57 min Scan# 2638

Delta R.T. 0.01 min

Lab File: VV016535.D

Acq: 05 Jun 2020 14:55

Instrument :  
MSVOA\_V  
ClientSampled :  
F9E39

Tgt Ion:106 Resp: 5623864

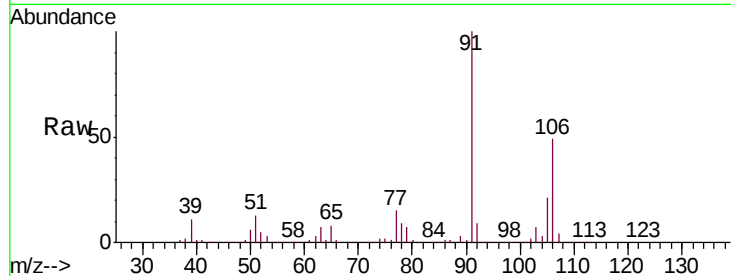
Ion Ratio Lower Upper

106 100

91 205.5 152.5 283.1

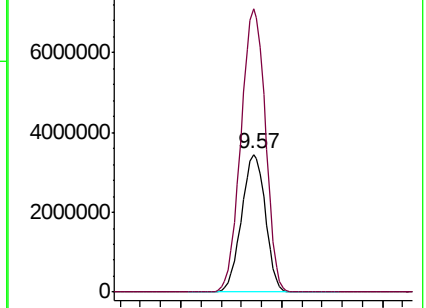
Manual Integrations  
APPROVED

sam  
6/6/2020 11:32:18 AM

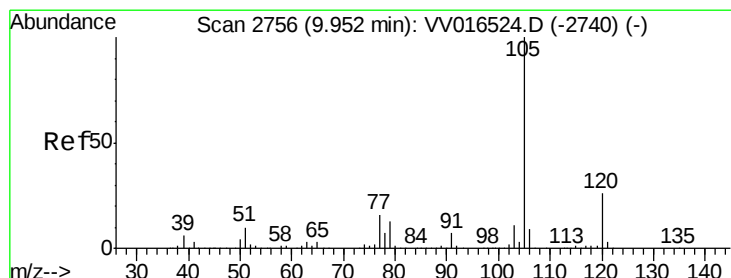
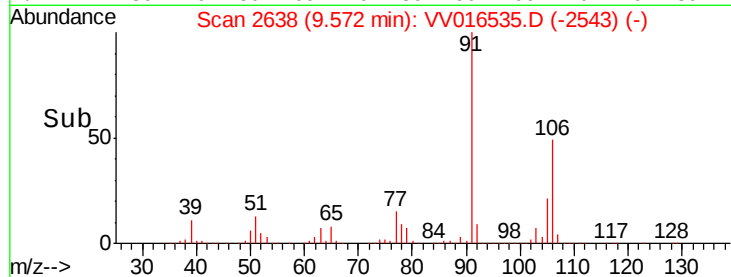


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



Time-->



#56

Isopropylbenzene

Concen: 68.100 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV016535.D

Acq: 05 Jun 2020 14:55

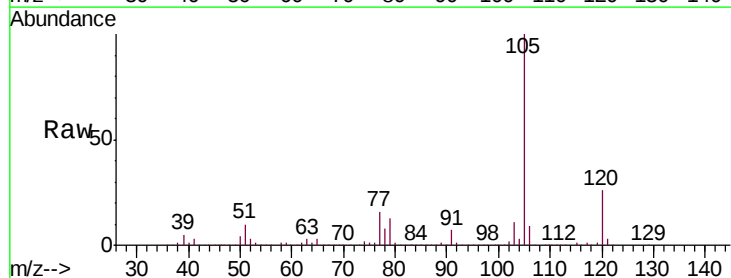
Tgt Ion:105 Resp: 831758

Ion Ratio Lower Upper

105 100

120 26.6 21.0 31.6

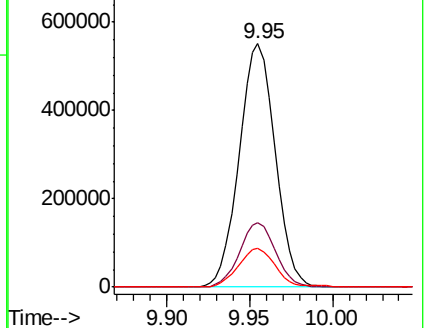
77 16.1 13.0 19.4



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): VV0



Time-->

