

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102519\  
 Data File : VW013750.D  
 Acq On : 25 Oct 2019 16:06  
 Operator : SY/VA  
 Sample : K5549-06  
 Misc : 2.74G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAQ59

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
 Title : VOC Analysis

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.355       | 68            | 74          | 83           | rVB      | 109958         | 197167        | 13.23%          | 1.783%        |
| 2         | 2.891       | 155           | 162         | 174          | rVB2     | 70509          | 174077        | 11.68%          | 1.574%        |
| 3         | 3.288       | 225           | 227         | 228          | rBV      | 534            | 274           | 0.02%           | 0.002%        |
| 4         | 3.342       | 234           | 236         | 237          | rBV2     | 251            | 263           | 0.02%           | 0.002%        |
| 5         | 3.391       | 239           | 244         | 247          | rBV4     | 1188           | 2220          | 0.15%           | 0.020%        |
| 6         | 3.550       | 268           | 270         | 273          | rVB      | 562            | 491           | 0.03%           | 0.004%        |
| 7         | 3.605       | 273           | 279         | 280          | rBV3     | 963            | 1549          | 0.10%           | 0.014%        |
| 8         | 3.849       | 317           | 319         | 321          | rVB2     | 390            | 294           | 0.02%           | 0.003%        |
| 9         | 3.946       | 332           | 335         | 336          | rBV2     | 274            | 268           | 0.02%           | 0.002%        |
| 10        | 4.019       | 336           | 347         | 362          | rBV      | 168766         | 534793        | 35.88%          | 4.836%        |
| 11        | 4.214       | 378           | 379         | 383          | rVB2     | 435            | 457           | 0.03%           | 0.004%        |
| 12        | 4.275       | 387           | 389         | 391          | rBV      | 394            | 338           | 0.02%           | 0.003%        |
| 13        | 4.318       | 395           | 396         | 399          | rBV      | 287            | 317           | 0.02%           | 0.003%        |
| 14        | 4.391       | 407           | 408         | 409          | rBV      | 448            | 242           | 0.02%           | 0.002%        |
| 15        | 4.672       | 448           | 454         | 464          | rVB2     | 2443           | 5974          | 0.40%           | 0.054%        |
| 16        | 4.915       | 485           | 494         | 495          | rBV2     | 6530           | 13249         | 0.89%           | 0.120%        |
| 17        | 5.293       | 555           | 556         | 559          | rVV      | 424            | 251           | 0.02%           | 0.002%        |
| 18        | 5.464       | 582           | 584         | 587          | rBV2     | 195            | 230           | 0.02%           | 0.002%        |
| 19        | 5.610       | 605           | 608         | 609          | rVB2     | 309            | 247           | 0.02%           | 0.002%        |
| 20        | 5.641       | 609           | 613         | 615          | rBV2     | 282            | 372           | 0.02%           | 0.003%        |
| 21        | 5.763       | 631           | 633         | 634          | rBV      | 230            | 227           | 0.02%           | 0.002%        |
| 22        | 5.940       | 656           | 662         | 666          | rBV5     | 1632           | 3413          | 0.23%           | 0.031%        |
| 23        | 6.360       | 730           | 731         | 734          | rVB2     | 381            | 291           | 0.02%           | 0.003%        |
| 24        | 6.519       | 753           | 757         | 759          | rVV3     | 208            | 291           | 0.02%           | 0.003%        |
| 25        | 6.622       | 772           | 774         | 777          | rVB      | 424            | 233           | 0.02%           | 0.002%        |
| 26        | 6.799       | 799           | 803         | 806          | rBV2     | 197            | 344           | 0.02%           | 0.003%        |
| 27        | 6.982       | 830           | 833         | 834          | rBV      | 233            | 249           | 0.02%           | 0.002%        |
| 28        | 7.000       | 834           | 836         | 838          | rVV2     | 305            | 240           | 0.02%           | 0.002%        |
| 29        | 7.080       | 840           | 849         | 868          | rVV      | 43598          | 137250        | 9.21%           | 1.241%        |
| 30        | 7.250       | 870           | 877         | 893          | rVB      | 56949          | 147181        | 9.87%           | 1.331%        |
| 31        | 7.647       | 931           | 942         | 953          | rBV      | 243311         | 594008        | 39.85%          | 5.372%        |
| 32        | 7.945       | 989           | 991         | 992          | rBV      | 696            | 489           | 0.03%           | 0.004%        |
| 33        | 8.031       | 1004          | 1005        | 1007         | rVB2     | 344            | 215           | 0.01%           | 0.002%        |
| 34        | 8.067       | 1010          | 1011        | 1014         | rVV      | 415            | 260           | 0.02%           | 0.002%        |

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Integrator: RTE  
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 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 8.128  | 1018 | 1021 | 1022 | rBV2 | 335    | 246     | 0.02%   | 0.002%  |
| 36 | 8.159  | 1025 | 1026 | 1029 | rBV2 | 374    | 391     | 0.03%   | 0.004%  |
| 37 | 8.275  | 1034 | 1045 | 1062 | rBV2 | 514465 | 1490462 | 100.00% | 13.479% |
| 38 | 8.457  | 1073 | 1075 | 1079 | rVB2 | 615    | 603     | 0.04%   | 0.005%  |
| 39 | 8.512  | 1079 | 1084 | 1087 | rBV2 | 285    | 478     | 0.03%   | 0.004%  |
| 40 | 8.543  | 1087 | 1089 | 1091 | rBV  | 394    | 306     | 0.02%   | 0.003%  |
| 41 | 8.616  | 1099 | 1101 | 1102 | rVV  | 464    | 352     | 0.02%   | 0.003%  |
| 42 | 8.659  | 1106 | 1108 | 1109 | rBV  | 330    | 233     | 0.02%   | 0.002%  |
| 43 | 8.683  | 1110 | 1112 | 1115 | rBV2 | 401    | 427     | 0.03%   | 0.004%  |
| 44 | 8.781  | 1124 | 1128 | 1129 | rBV2 | 366    | 471     | 0.03%   | 0.004%  |
| 45 | 8.842  | 1129 | 1138 | 1148 | rVV  | 407140 | 799525  | 53.64%  | 7.230%  |
| 46 | 9.055  | 1169 | 1173 | 1174 | rBV2 | 1169   | 1487    | 0.10%   | 0.013%  |
| 47 | 9.171  | 1189 | 1192 | 1196 | rBV2 | 420    | 573     | 0.04%   | 0.005%  |
| 48 | 9.274  | 1198 | 1209 | 1218 | rBV  | 336024 | 677354  | 45.45%  | 6.126%  |
| 49 | 9.427  | 1232 | 1234 | 1237 | rVB  | 550    | 445     | 0.03%   | 0.004%  |
| 50 | 9.616  | 1263 | 1265 | 1266 | rBV2 | 320    | 281     | 0.02%   | 0.003%  |
| 51 | 9.665  | 1269 | 1273 | 1275 | rVV3 | 621    | 890     | 0.06%   | 0.008%  |
| 52 | 9.726  | 1281 | 1283 | 1287 | rBV2 | 228    | 255     | 0.02%   | 0.002%  |
| 53 | 9.774  | 1289 | 1291 | 1297 | rVB  | 467    | 451     | 0.03%   | 0.004%  |
| 54 | 9.878  | 1305 | 1308 | 1309 | rBV2 | 279    | 343     | 0.02%   | 0.003%  |
| 55 | 9.933  | 1316 | 1317 | 1320 | rVB  | 333    | 214     | 0.01%   | 0.002%  |
| 56 | 10.036 | 1325 | 1334 | 1345 | rBV  | 184664 | 340522  | 22.85%  | 3.079%  |
| 57 | 10.116 | 1345 | 1347 | 1348 | rBV  | 454    | 268     | 0.02%   | 0.002%  |
| 58 | 10.213 | 1358 | 1363 | 1365 | rBV2 | 455    | 614     | 0.04%   | 0.006%  |
| 59 | 10.323 | 1372 | 1381 | 1388 | rBV  | 762236 | 1337867 | 89.76%  | 12.099% |
| 60 | 10.384 | 1388 | 1391 | 1399 | rVV  | 28416  | 48180   | 3.23%   | 0.436%  |
| 61 | 10.500 | 1408 | 1410 | 1411 | rVV  | 636    | 436     | 0.03%   | 0.004%  |
| 62 | 10.579 | 1415 | 1423 | 1434 | rVB  | 122723 | 217362  | 14.58%  | 1.966%  |
| 63 | 10.658 | 1434 | 1436 | 1438 | rBV2 | 432    | 432     | 0.03%   | 0.004%  |
| 64 | 10.707 | 1438 | 1444 | 1449 | rVV  | 29241  | 53958   | 3.62%   | 0.488%  |
| 65 | 10.762 | 1449 | 1453 | 1454 | rVB3 | 279    | 273     | 0.02%   | 0.002%  |
| 66 | 10.927 | 1472 | 1480 | 1486 | rBV  | 179746 | 313671  | 21.05%  | 2.837%  |
| 67 | 11.323 | 1541 | 1545 | 1546 | rBV2 | 196    | 303     | 0.02%   | 0.003%  |
| 68 | 11.445 | 1561 | 1565 | 1567 | rBV2 | 240    | 354     | 0.02%   | 0.003%  |
| 69 | 11.493 | 1570 | 1573 | 1576 | rBV  | 332    | 441     | 0.03%   | 0.004%  |
| 70 | 11.628 | 1587 | 1595 | 1606 | rBV  | 590120 | 1013348 | 67.99%  | 9.164%  |
| 71 | 11.798 | 1621 | 1623 | 1624 | rBV2 | 384    | 283     | 0.02%   | 0.003%  |

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 ClientSampleId :  
 GAQ59

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 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |         |
|-----|--------|------|------|------|------|--------|---------|--------|---------|
| 72  | 11.829 | 1625 | 1628 | 1635 | rVV3 | 3676   | 6761    | 0.45%  | 0.061%  |
| 73  | 12.012 | 1656 | 1658 | 1660 | rVB2 | 530    | 350     | 0.02%  | 0.003%  |
| 74  | 12.097 | 1669 | 1672 | 1678 | rVB4 | 497    | 748     | 0.05%  | 0.007%  |
| 75  | 12.164 | 1680 | 1683 | 1688 | rVV3 | 1556   | 2314    | 0.16%  | 0.021%  |
| 76  | 12.231 | 1688 | 1694 | 1703 | rVV  | 46296  | 73933   | 4.96%  | 0.669%  |
| 77  | 12.323 | 1707 | 1709 | 1710 | rVV  | 668    | 507     | 0.03%  | 0.005%  |
| 78  | 12.341 | 1710 | 1712 | 1716 | rVB3 | 1173   | 1387    | 0.09%  | 0.013%  |
| 79  | 12.402 | 1721 | 1722 | 1725 | rBV  | 424    | 359     | 0.02%  | 0.003%  |
| 80  | 12.469 | 1730 | 1733 | 1735 | rBV2 | 435    | 504     | 0.03%  | 0.005%  |
| 81  | 12.609 | 1749 | 1756 | 1762 | rVV  | 63149  | 105356  | 7.07%  | 0.953%  |
| 82  | 12.688 | 1762 | 1769 | 1778 | rVB  | 258501 | 435240  | 29.20% | 3.936%  |
| 83  | 12.762 | 1778 | 1781 | 1782 | rBV2 | 353    | 447     | 0.03%  | 0.004%  |
| 84  | 12.847 | 1792 | 1795 | 1796 | rBV2 | 388    | 443     | 0.03%  | 0.004%  |
| 85  | 12.932 | 1806 | 1809 | 1812 | rBV5 | 1028   | 1501    | 0.10%  | 0.014%  |
| 86  | 12.963 | 1812 | 1814 | 1821 | rVB2 | 2201   | 2784    | 0.19%  | 0.025%  |
| 87  | 13.182 | 1847 | 1850 | 1854 | rVB3 | 410    | 497     | 0.03%  | 0.004%  |
| 88  | 13.249 | 1856 | 1861 | 1864 | rBV4 | 1631   | 2740    | 0.18%  | 0.025%  |
| 89  | 13.408 | 1882 | 1887 | 1892 | rVB5 | 1580   | 3060    | 0.21%  | 0.028%  |
| 90  | 13.469 | 1894 | 1897 | 1899 | rBV3 | 1118   | 1378    | 0.09%  | 0.012%  |
| 91  | 13.554 | 1904 | 1911 | 1920 | rVV  | 708939 | 1154002 | 77.43% | 10.436% |
| 92  | 13.646 | 1922 | 1926 | 1933 | rVB2 | 14885  | 25709   | 1.72%  | 0.232%  |
| 93  | 13.853 | 1952 | 1960 | 1969 | rBV  | 663786 | 1073909 | 72.05% | 9.712%  |
| 94  | 14.072 | 1990 | 1996 | 2003 | rBV3 | 17156  | 29301   | 1.97%  | 0.265%  |
| 95  | 14.328 | 2034 | 2038 | 2044 | rVB4 | 4754   | 7035    | 0.47%  | 0.064%  |
| 96  | 14.499 | 2064 | 2066 | 2067 | rBV2 | 638    | 496     | 0.03%  | 0.004%  |
| 97  | 14.523 | 2067 | 2070 | 2076 | rVB5 | 1977   | 3261    | 0.22%  | 0.029%  |
| 98  | 14.871 | 2126 | 2127 | 2131 | rBV3 | 585    | 617     | 0.04%  | 0.006%  |
| 99  | 15.346 | 2203 | 2205 | 2206 | rBV  | 886    | 436     | 0.03%  | 0.004%  |
| 100 | 15.810 | 2279 | 2281 | 2285 | rBV4 | 1031   | 988     | 0.07%  | 0.009%  |

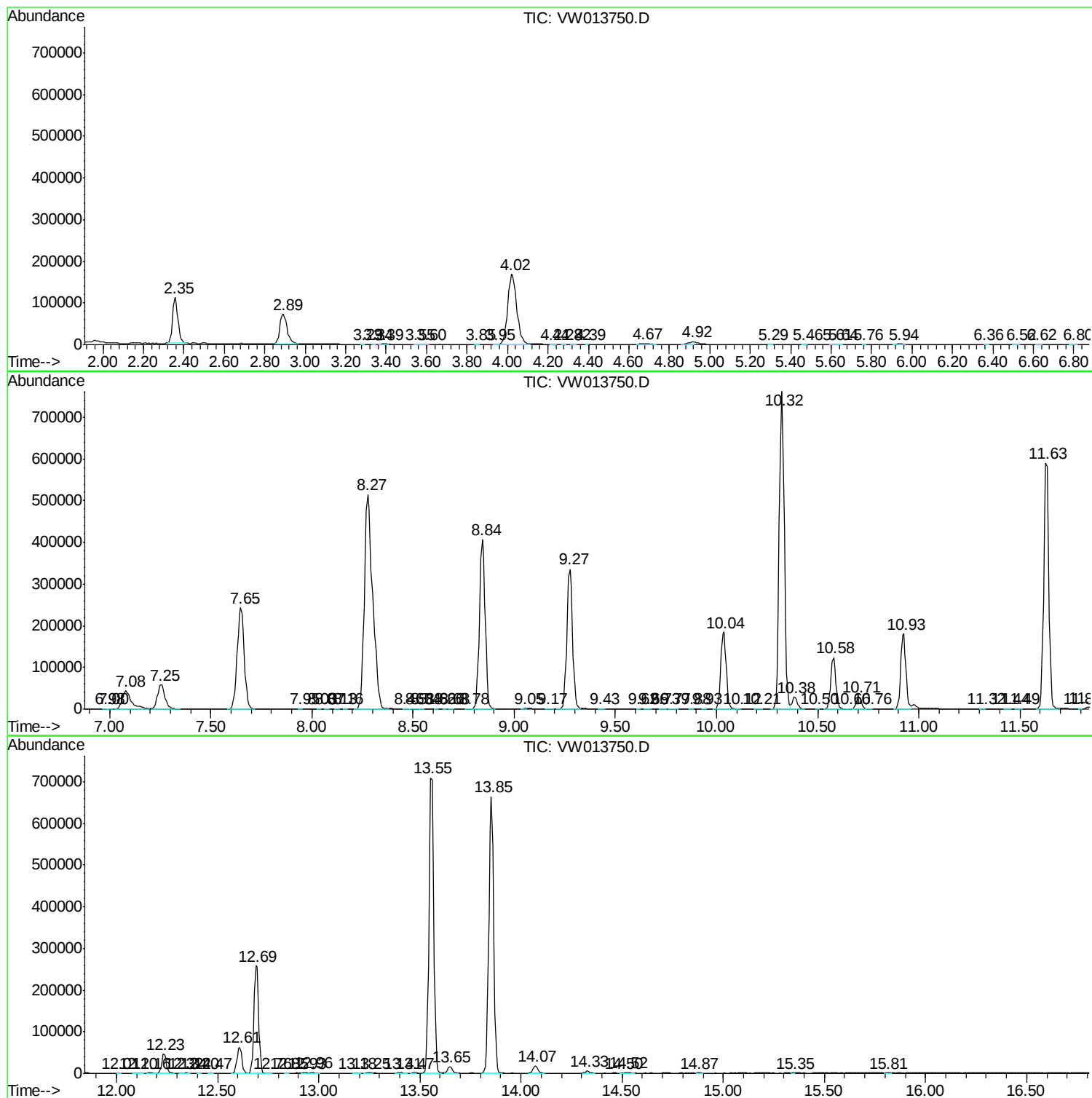
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102519\  
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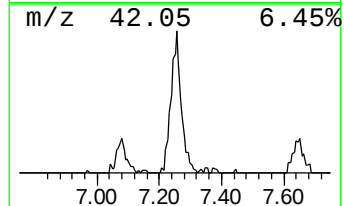
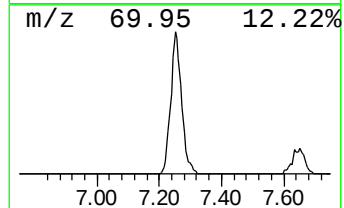
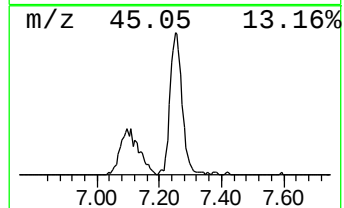
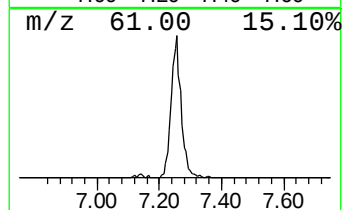
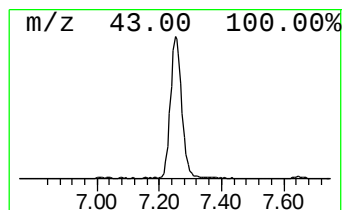
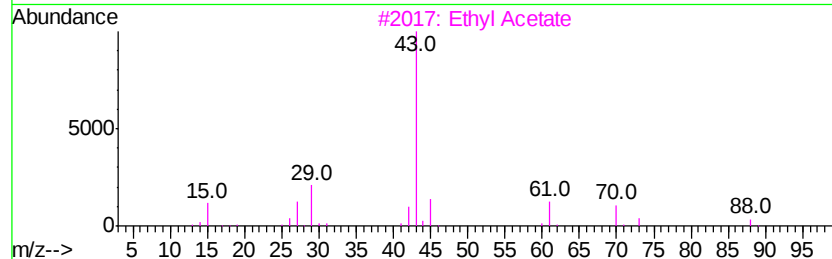
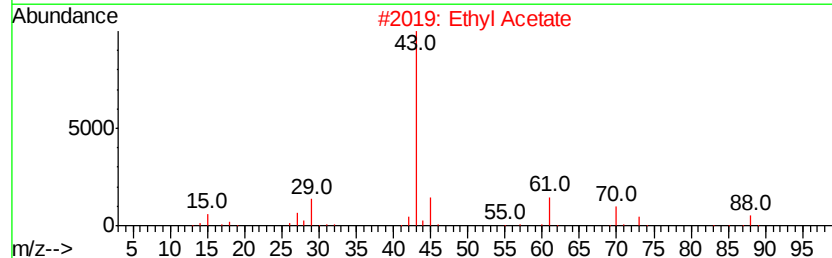
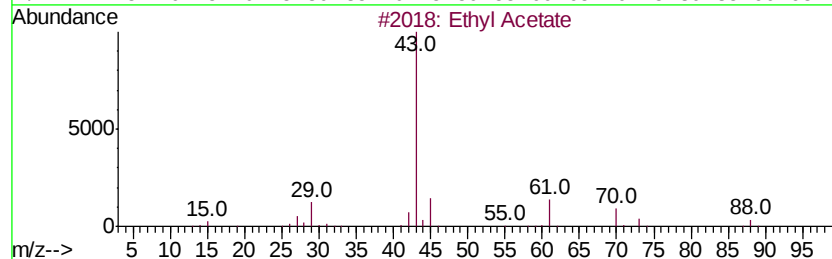
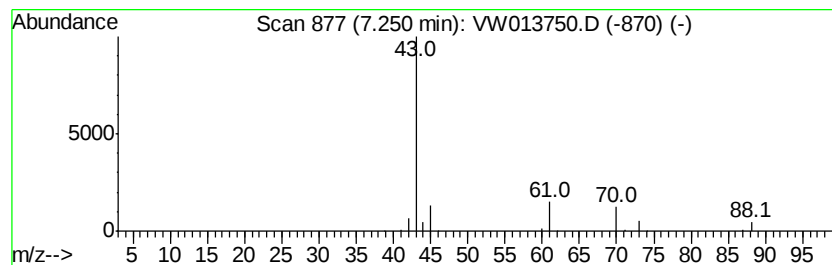
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Ethyl Acetate Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 7.25 | 4.60 ug/L | 147181 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | 5 | Tentative ID    | MW | MolForm | CAS#        | Qual |
|------|----|---|-----------------|----|---------|-------------|------|
| 1    |    |   | Ethyl Acetate   | 88 | C4H8O2  | 000141-78-6 | 90   |
| 2    |    |   | Ethyl Acetate   | 88 | C4H8O2  | 000141-78-6 | 90   |
| 3    |    |   | Ethyl Acetate   | 88 | C4H8O2  | 000141-78-6 | 86   |
| 4    |    |   | Ethyl Acetate   | 88 | C4H8O2  | 000141-78-6 | 78   |
| 5    |    |   | CH3C(O)CH2CH2OH | 88 | C4H8O2  | 000590-90-9 | 33   |



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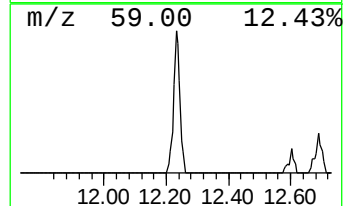
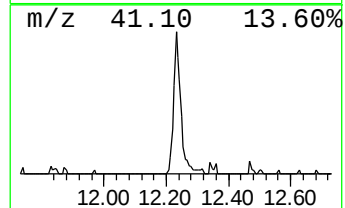
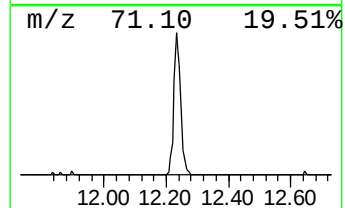
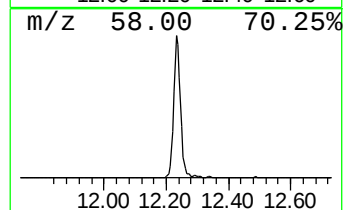
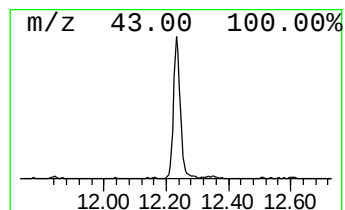
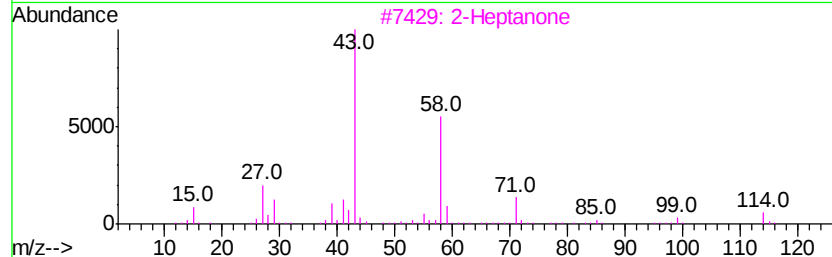
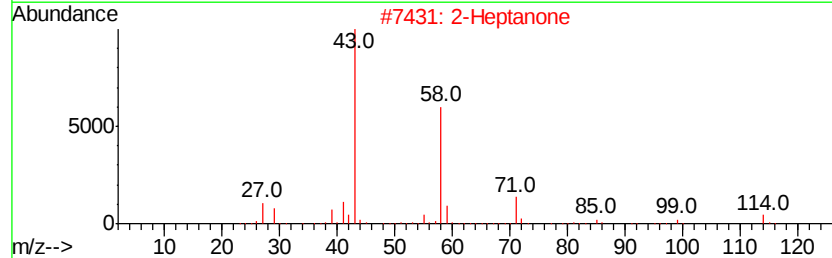
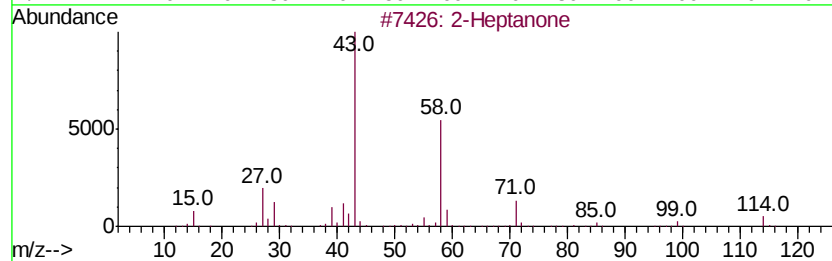
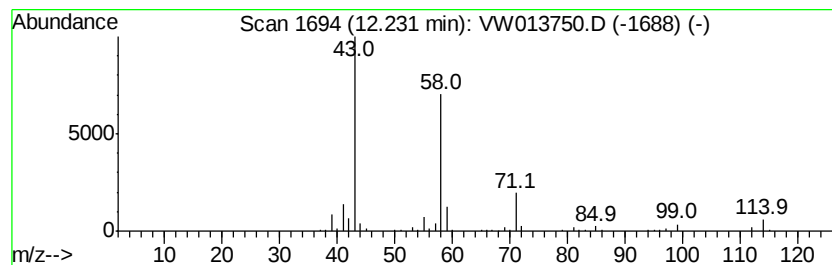
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Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 2-Heptanone Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 12.23 | 1.82 ug/L | 73933 | Chlorobenzene-d5 | 11.63 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Heptanone           | 114 | C7H14O  | 000110-43-0 | 91   |
| 2    |    | 2-Heptanone           | 114 | C7H14O  | 000110-43-0 | 90   |
| 3    |    | 2-Heptanone           | 114 | C7H14O  | 000110-43-0 | 80   |
| 4    |    | 2-Hexanone, 5-methyl- | 114 | C7H14O  | 000110-12-3 | 64   |
| 5    |    | 2-Hexanone, 5-methyl- | 114 | C7H14O  | 000110-12-3 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW102519\  
Data File : VW013750.D  
Acq On : 25 Oct 2019 16:06  
Operator : SY/VA  
Sample : K5549-06  
Misc : 2.74G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAQ59

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM101819S.M  
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                  |       |         |       |          | #                     | RT    | Resp    | Conc |
| Ethyl Acetate    | 7.25  | 4.6     | ug/L  | 147181   | 1                     | 8.84  | 799525  | 25.0 |
| 2-Heptanone      | 12.23 | 1.8     | ug/L  | 73933    | 2                     | 11.63 | 1013350 | 25.0 |