

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061719\  
 Data File : VW010825.D  
 Acq On : 17 Jun 2019 14:11  
 Operator : SY/VA  
 Sample : K3363-06  
 Misc : 3.62G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

## 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\SOM2WLM061119S.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         | 2.160       | 38            | 42          | 49           | rVB      | 28631          | 40712         | 0.85%           | 0.527%        |
| 2         | 2.343       | 68            | 72          | 83           | rVB      | 47206          | 79909         | 1.67%           | 1.033%        |
| 3         | 2.885       | 155           | 161         | 170          | rVB      | 42245          | 86358         | 1.81%           | 1.117%        |
| 4         | 3.922       | 330           | 331         | 333          | rBV2     | 359            | 314           | 0.01%           | 0.004%        |
| 5         | 4.013       | 333           | 346         | 356          | rVV2     | 65124          | 173081        | 3.62%           | 2.238%        |
| 6         | 4.123       | 360           | 364         | 377          | rVB3     | 2651           | 8833          | 0.18%           | 0.114%        |
| 7         | 4.257       | 383           | 386         | 387          | rBV3     | 615            | 586           | 0.01%           | 0.008%        |
| 8         | 4.275       | 387           | 389         | 393          | rVB3     | 488            | 354           | 0.01%           | 0.005%        |
| 9         | 4.312       | 393           | 395         | 399          | rBV3     | 355            | 434           | 0.01%           | 0.006%        |
| 10        | 4.391       | 401           | 408         | 409          | rBV3     | 2369           | 4004          | 0.08%           | 0.052%        |
| 11        | 4.489       | 421           | 424         | 426          | rVB3     | 444            | 468           | 0.01%           | 0.006%        |
| 12        | 4.519       | 426           | 429         | 430          | rBV3     | 394            | 414           | 0.01%           | 0.005%        |
| 13        | 4.635       | 447           | 448         | 451          | rBV3     | 448            | 549           | 0.01%           | 0.007%        |
| 14        | 4.696       | 456           | 458         | 461          | rBV      | 415            | 344           | 0.01%           | 0.004%        |
| 15        | 4.726       | 461           | 463         | 465          | rBV      | 501            | 348           | 0.01%           | 0.005%        |
| 16        | 4.921       | 485           | 495         | 504          | rBV      | 13728          | 43604         | 0.91%           | 0.564%        |
| 17        | 5.037       | 512           | 514         | 516          | rVB      | 434            | 283           | 0.01%           | 0.004%        |
| 18        | 5.129       | 526           | 529         | 530          | rVB2     | 722            | 650           | 0.01%           | 0.008%        |
| 19        | 5.153       | 530           | 533         | 536          | rBV3     | 725            | 982           | 0.02%           | 0.013%        |
| 20        | 5.251       | 547           | 549         | 552          | rBV2     | 294            | 320           | 0.01%           | 0.004%        |
| 21        | 5.281       | 552           | 554         | 555          | rBV      | 449            | 341           | 0.01%           | 0.004%        |
| 22        | 5.336       | 561           | 563         | 564          | rBV      | 556            | 265           | 0.01%           | 0.003%        |
| 23        | 5.421       | 567           | 577         | 587          | rVV2     | 10686          | 33159         | 0.69%           | 0.429%        |
| 24        | 5.562       | 599           | 600         | 603          | rVB3     | 638            | 573           | 0.01%           | 0.007%        |
| 25        | 5.665       | 616           | 617         | 621          | rBV2     | 340            | 247           | 0.01%           | 0.003%        |
| 26        | 5.952       | 654           | 664         | 673          | rVB4     | 7309           | 24183         | 0.51%           | 0.313%        |
| 27        | 6.019       | 673           | 675         | 679          | rBV3     | 618            | 742           | 0.02%           | 0.010%        |
| 28        | 6.055       | 679           | 681         | 682          | rBV2     | 411            | 312           | 0.01%           | 0.004%        |
| 29        | 6.122       | 690           | 692         | 695          | rVB      | 453            | 443           | 0.01%           | 0.006%        |
| 30        | 6.147       | 695           | 696         | 698          | rBV      | 528            | 312           | 0.01%           | 0.004%        |
| 31        | 6.244       | 710           | 712         | 714          | rBV      | 451            | 510           | 0.01%           | 0.007%        |
| 32        | 6.263       | 714           | 715         | 717          | rVV      | 638            | 533           | 0.01%           | 0.007%        |
| 33        | 6.311       | 721           | 723         | 724          | rVV      | 502            | 349           | 0.01%           | 0.005%        |
| 34        | 6.336       | 724           | 727         | 728          | rVV      | 379            | 476           | 0.01%           | 0.006%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061719\  
 Data File : VW010825.D  
 Acq On : 17 Jun 2019 14:11  
 Operator : SY/VA  
 Sample : K3363-06  
 Misc : 3.62G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

## 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\SOM2WLM061119S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 6.379  | 732  | 734  | 737  | rVV3 | 402     | 506     | 0.01%   | 0.007%  |
| 36 | 6.403  | 737  | 738  | 740  | rVV2 | 307     | 303     | 0.01%   | 0.004%  |
| 37 | 6.446  | 744  | 745  | 747  | rVV  | 441     | 303     | 0.01%   | 0.004%  |
| 38 | 6.507  | 752  | 755  | 757  | rVB2 | 391     | 308     | 0.01%   | 0.004%  |
| 39 | 6.537  | 757  | 760  | 761  | rBV  | 313     | 368     | 0.01%   | 0.005%  |
| 40 | 6.592  | 766  | 769  | 772  | rVV3 | 268     | 365     | 0.01%   | 0.005%  |
| 41 | 6.628  | 772  | 775  | 776  | rVB  | 319     | 273     | 0.01%   | 0.004%  |
| 42 | 6.750  | 793  | 795  | 800  | rVB4 | 370     | 344     | 0.01%   | 0.004%  |
| 43 | 6.939  | 823  | 826  | 827  | rBV  | 369     | 404     | 0.01%   | 0.005%  |
| 44 | 6.958  | 827  | 829  | 831  | rVB  | 526     | 486     | 0.01%   | 0.006%  |
| 45 | 7.086  | 842  | 850  | 856  | rBV2 | 24475   | 80006   | 1.68%   | 1.035%  |
| 46 | 7.433  | 905  | 907  | 908  | rVB2 | 474     | 286     | 0.01%   | 0.004%  |
| 47 | 7.452  | 908  | 910  | 913  | rBV3 | 477     | 440     | 0.01%   | 0.006%  |
| 48 | 7.519  | 918  | 921  | 923  | rBV3 | 870     | 1151    | 0.02%   | 0.015%  |
| 49 | 7.659  | 932  | 944  | 957  | rVB3 | 76043   | 263860  | 5.53%   | 3.413%  |
| 50 | 7.866  | 976  | 978  | 980  | rVB  | 498     | 283     | 0.01%   | 0.004%  |
| 51 | 8.134  | 1019 | 1022 | 1023 | rBV2 | 556     | 567     | 0.01%   | 0.007%  |
| 52 | 8.281  | 1036 | 1046 | 1061 | rBV2 | 124917  | 455503  | 9.54%   | 5.891%  |
| 53 | 8.610  | 1099 | 1100 | 1102 | rBV2 | 682     | 615     | 0.01%   | 0.008%  |
| 54 | 8.762  | 1123 | 1125 | 1127 | rBV  | 306     | 308     | 0.01%   | 0.004%  |
| 55 | 8.841  | 1130 | 1138 | 1147 | rBV  | 117799  | 235667  | 4.94%   | 3.048%  |
| 56 | 9.091  | 1167 | 1179 | 1198 | rBV  | 2453346 | 4775255 | 100.00% | 61.759% |
| 57 | 9.274  | 1202 | 1209 | 1225 | rVB  | 153780  | 321588  | 6.73%   | 4.159%  |
| 58 | 9.506  | 1246 | 1247 | 1250 | rVB2 | 488     | 432     | 0.01%   | 0.006%  |
| 59 | 9.536  | 1250 | 1252 | 1254 | rVB2 | 385     | 305     | 0.01%   | 0.004%  |
| 60 | 9.585  | 1254 | 1260 | 1262 | rBV4 | 705     | 1395    | 0.03%   | 0.018%  |
| 61 | 9.640  | 1267 | 1269 | 1270 | rBV2 | 878     | 627     | 0.01%   | 0.008%  |
| 62 | 9.738  | 1283 | 1285 | 1286 | rBV  | 441     | 349     | 0.01%   | 0.005%  |
| 63 | 9.768  | 1288 | 1290 | 1296 | rVB3 | 863     | 892     | 0.02%   | 0.012%  |
| 64 | 9.847  | 1300 | 1303 | 1304 | rBV3 | 477     | 448     | 0.01%   | 0.006%  |
| 65 | 10.036 | 1327 | 1334 | 1344 | rVV  | 61114   | 113091  | 2.37%   | 1.463%  |
| 66 | 10.323 | 1373 | 1381 | 1388 | rBV  | 116916  | 208469  | 4.37%   | 2.696%  |
| 67 | 10.384 | 1389 | 1391 | 1399 | rVB2 | 3519    | 5811    | 0.12%   | 0.075%  |
| 68 | 10.445 | 1399 | 1401 | 1403 | rBV3 | 551     | 648     | 0.01%   | 0.008%  |
| 69 | 10.579 | 1415 | 1423 | 1431 | rBV3 | 37585   | 71515   | 1.50%   | 0.925%  |
| 70 | 10.707 | 1438 | 1444 | 1451 | rVB2 | 9091    | 16204   | 0.34%   | 0.210%  |
| 71 | 10.866 | 1463 | 1470 | 1474 | rBV3 | 11130   | 21240   | 0.44%   | 0.275%  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061719\  
 Data File : VW010825.D  
 Acq On : 17 Jun 2019 14:11  
 Operator : SY/VA  
 Sample : K3363-06  
 Misc : 3.62G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

## 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\SOM2WLM061119S.M  
 Title : VOC Analysis

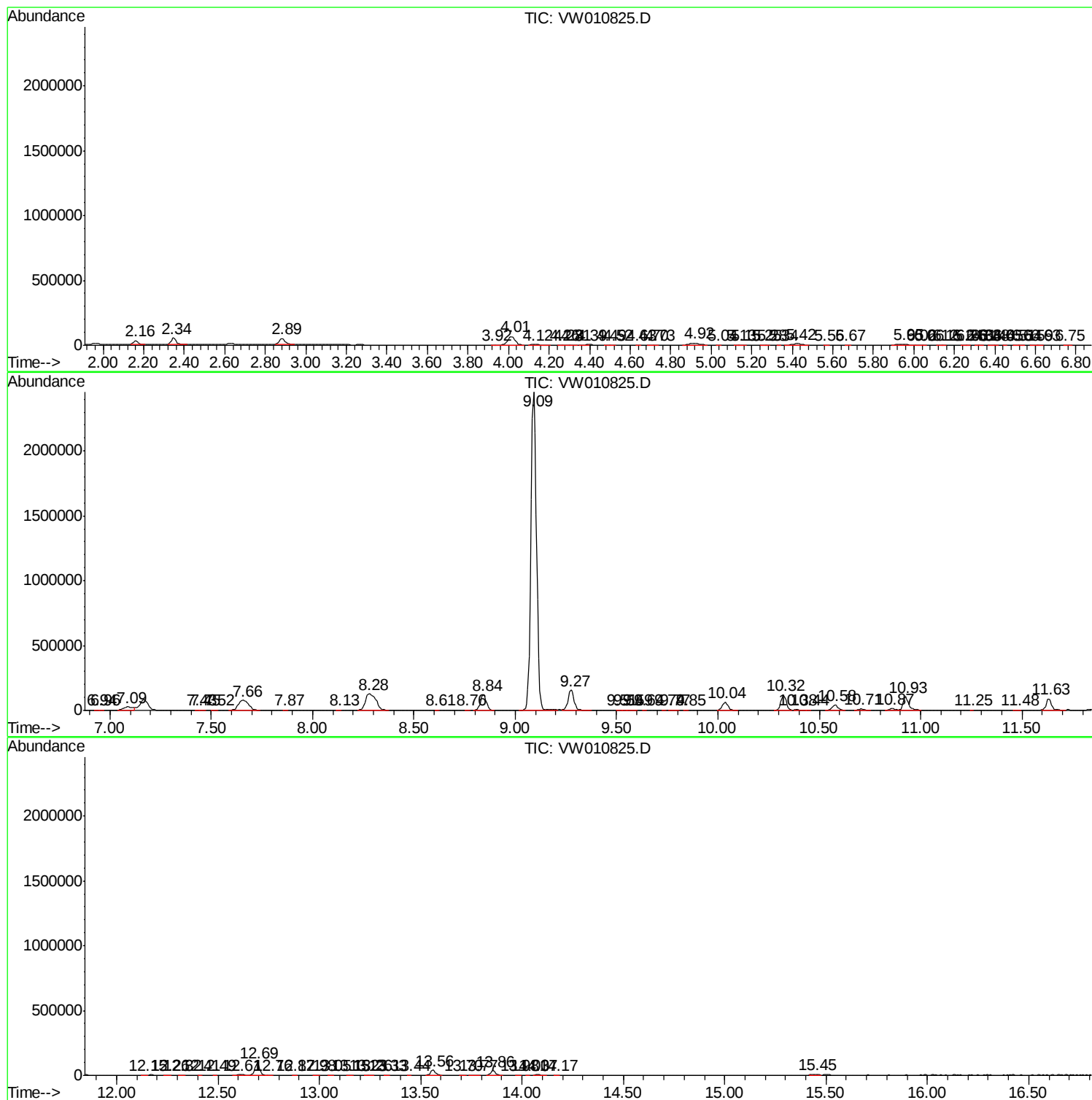
|     |        |      |      |      |      |        |        |       |        |
|-----|--------|------|------|------|------|--------|--------|-------|--------|
| 72  | 10.926 | 1474 | 1480 | 1492 | rVB2 | 102008 | 187685 | 3.93% | 2.427% |
| 73  | 11.250 | 1532 | 1533 | 1534 | rBV  | 864    | 424    | 0.01% | 0.005% |
| 74  | 11.481 | 1567 | 1571 | 1573 | rBV3 | 532    | 808    | 0.02% | 0.010% |
| 75  | 11.634 | 1590 | 1596 | 1609 | rVB  | 85712  | 148684 | 3.11% | 1.923% |
| 76  | 12.146 | 1676 | 1680 | 1681 | rBV3 | 880    | 1012   | 0.02% | 0.013% |
| 77  | 12.256 | 1694 | 1698 | 1700 | rBV4 | 708    | 1002   | 0.02% | 0.013% |
| 78  | 12.316 | 1706 | 1708 | 1711 | rBV2 | 279    | 340    | 0.01% | 0.004% |
| 79  | 12.408 | 1722 | 1723 | 1725 | rBV2 | 419    | 251    | 0.01% | 0.003% |
| 80  | 12.487 | 1734 | 1736 | 1737 | rBV2 | 664    | 458    | 0.01% | 0.006% |
| 81  | 12.609 | 1750 | 1756 | 1763 | rBV4 | 4479   | 8575   | 0.18% | 0.111% |
| 82  | 12.694 | 1763 | 1770 | 1778 | rBV  | 97560  | 158858 | 3.33% | 2.055% |
| 83  | 12.762 | 1778 | 1781 | 1782 | rBV2 | 729    | 693    | 0.01% | 0.009% |
| 84  | 12.871 | 1798 | 1799 | 1802 | rBV  | 455    | 338    | 0.01% | 0.004% |
| 85  | 12.981 | 1815 | 1817 | 1820 | rBV2 | 488    | 610    | 0.01% | 0.008% |
| 86  | 13.054 | 1827 | 1829 | 1831 | rVB2 | 370    | 294    | 0.01% | 0.004% |
| 87  | 13.146 | 1842 | 1844 | 1847 | rBV3 | 589    | 702    | 0.01% | 0.009% |
| 88  | 13.231 | 1856 | 1858 | 1859 | rVB  | 529    | 279    | 0.01% | 0.004% |
| 89  | 13.255 | 1859 | 1862 | 1864 | rBV3 | 763    | 1177   | 0.02% | 0.015% |
| 90  | 13.328 | 1872 | 1874 | 1877 | rVB2 | 452    | 503    | 0.01% | 0.007% |
| 91  | 13.444 | 1891 | 1893 | 1894 | rVB2 | 468    | 272    | 0.01% | 0.004% |
| 92  | 13.560 | 1906 | 1912 | 1919 | rBV  | 38783  | 64059  | 1.34% | 0.828% |
| 93  | 13.700 | 1933 | 1935 | 1939 | rBV2 | 429    | 390    | 0.01% | 0.005% |
| 94  | 13.774 | 1941 | 1947 | 1950 | rBV6 | 778    | 1427   | 0.03% | 0.018% |
| 95  | 13.859 | 1955 | 1961 | 1968 | rVB  | 31009  | 54088  | 1.13% | 0.700% |
| 96  | 13.981 | 1979 | 1981 | 1983 | rBV3 | 434    | 339    | 0.01% | 0.004% |
| 97  | 14.030 | 1987 | 1989 | 1990 | rBV2 | 470    | 312    | 0.01% | 0.004% |
| 98  | 14.072 | 1993 | 1996 | 2004 | rVB3 | 3250   | 4961   | 0.10% | 0.064% |
| 99  | 14.170 | 2010 | 2012 | 2014 | rBV2 | 382    | 297    | 0.01% | 0.004% |
| 100 | 15.450 | 2217 | 2222 | 2226 | rVB2 | 5008   | 7631   | 0.16% | 0.099% |

Sum of corrected areas: 7732076

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061719\  
Data File : VW010825.D  
Acq On : 17 Jun 2019 14:11  
Operator : SY/VA  
Sample : K3363-06  
Misc : 3.62G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM061119S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW061719\  
Data File : VW010825.D  
Acq On : 17 Jun 2019 14:11  
Operator : SY/VA  
Sample : K3363-06  
Misc : 3.62G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

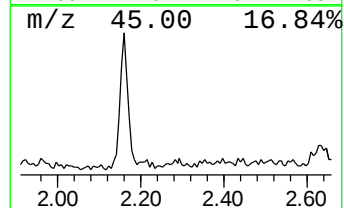
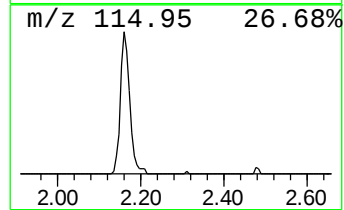
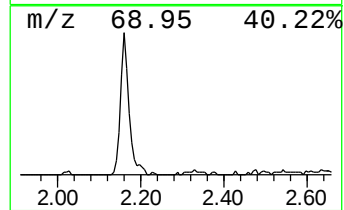
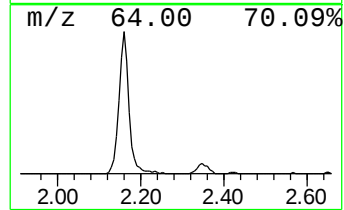
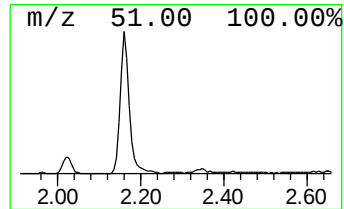
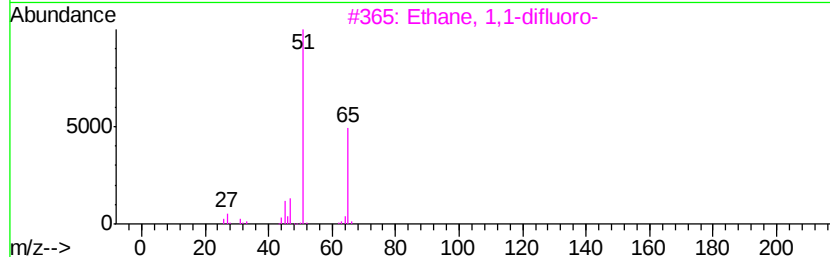
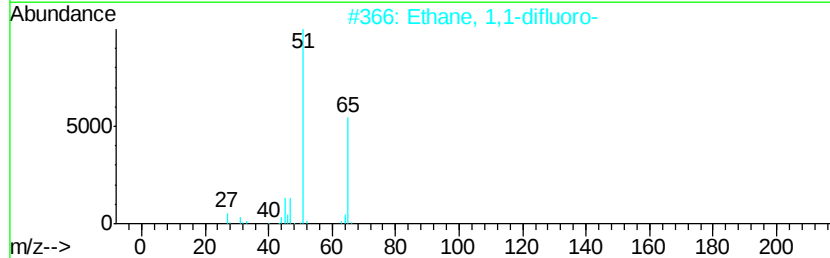
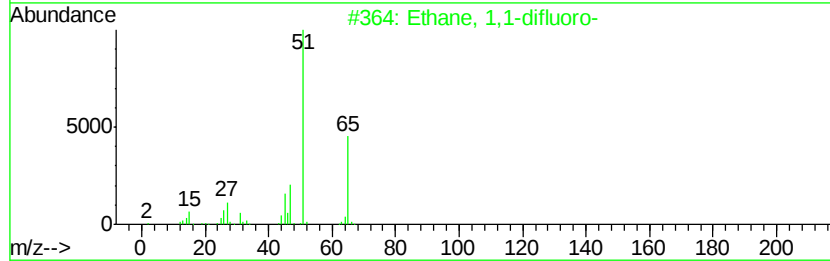
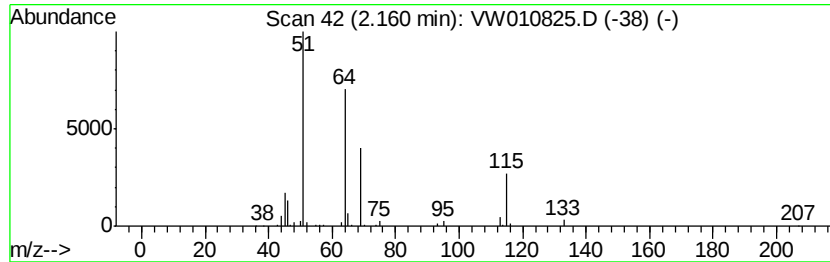
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM061119S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 1 unknown-01 Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.16 | 4.32 ug/L | 40712 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Ethane, 1,1-difluoro-  | 66  | C2H4F2  | 000075-37-6 | 28   |
| 2    |    |   | Ethane, 1,1-difluoro-  | 66  | C2H4F2  | 000075-37-6 | 28   |
| 3    |    |   | Ethane, 1,1-difluoro-  | 66  | C2H4F2  | 000075-37-6 | 9    |
| 4    |    |   | Ethene, 1,1-difluoro-  | 64  | C2H2F2  | 000075-38-7 | 8    |
| 5    |    |   | Tetrafluoroformamidine | 116 | CF4N2   | 014362-70-0 | 7    |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW061719\  
Data File : VW010825.D  
Acq On : 17 Jun 2019 14:11  
Operator : SY/VA  
Sample : K3363-06  
Misc : 3.62G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM061119S.M  
Quant Title : VOC Analysis

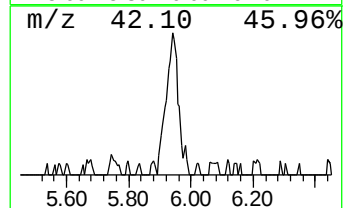
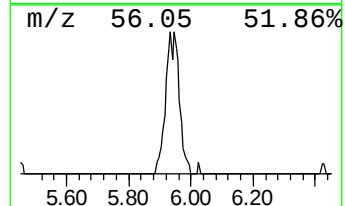
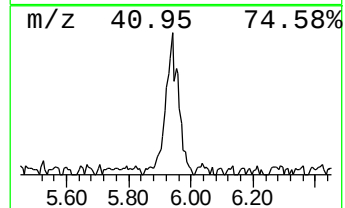
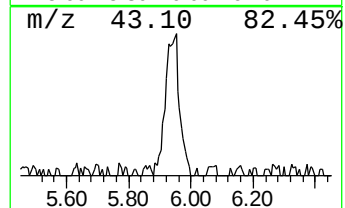
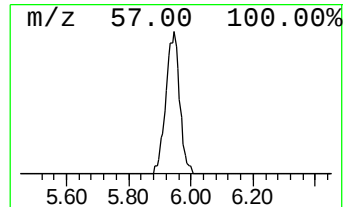
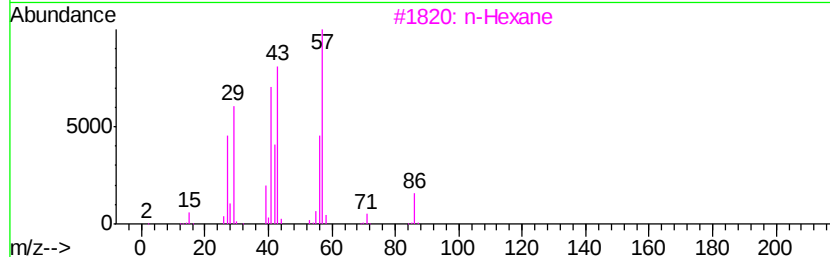
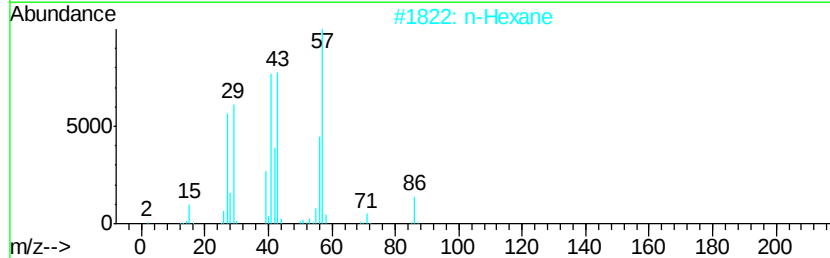
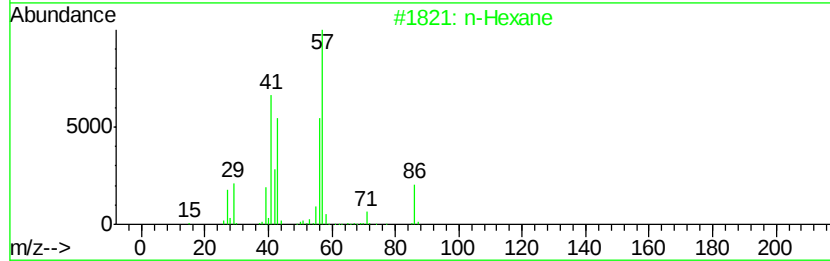
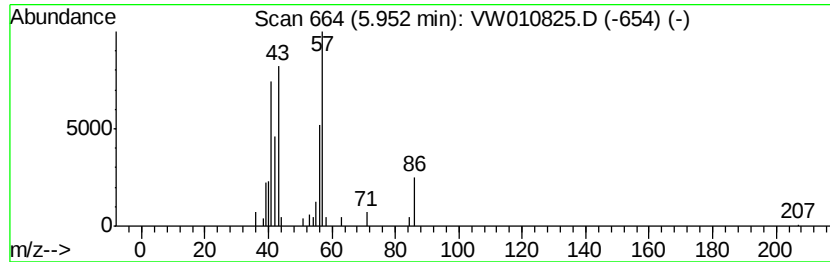
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 5.95 | 2.57 ug/L | 24183 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | n-Hexane                   | 86  | C6H14   | 000110-54-3 | 64   |
| 2    |    | n-Hexane                   | 86  | C6H14   | 000110-54-3 | 59   |
| 3    |    | n-Hexane                   | 86  | C6H14   | 000110-54-3 | 42   |
| 4    |    | Butane, 2-methyl-          | 72  | C5H12   | 000078-78-4 | 38   |
| 5    |    | Butane, 1-chloro-2-methyl- | 106 | C5H11Cl | 000616-13-7 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW061719\  
Data File : VW010825.D  
Acq On : 17 Jun 2019 14:11  
Operator : SY/VA  
Sample : K3363-06  
Misc : 3.62G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM061119S.M  
Quant Title : VOC Analysis

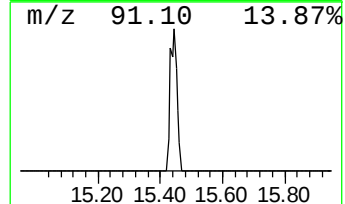
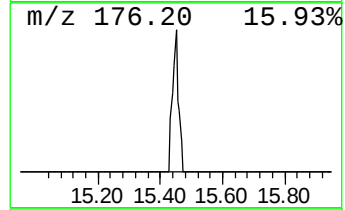
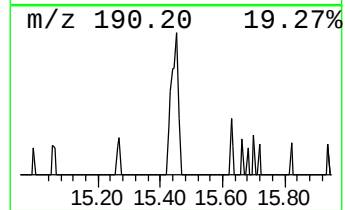
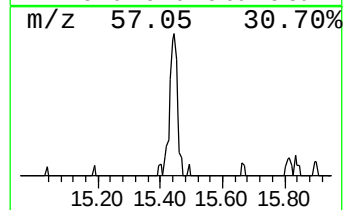
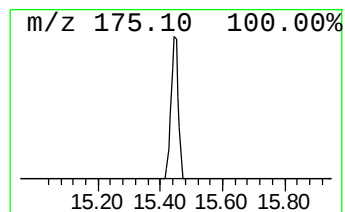
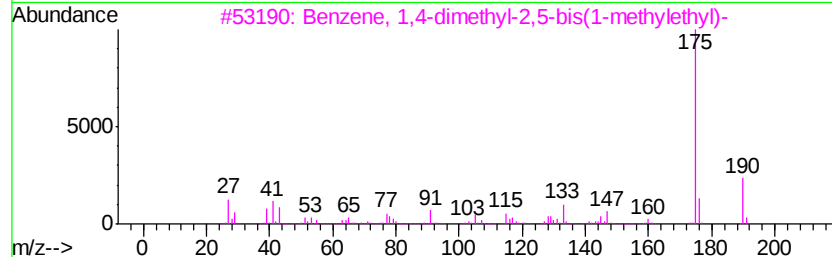
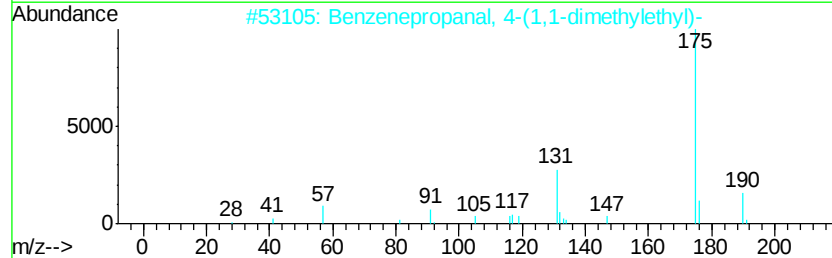
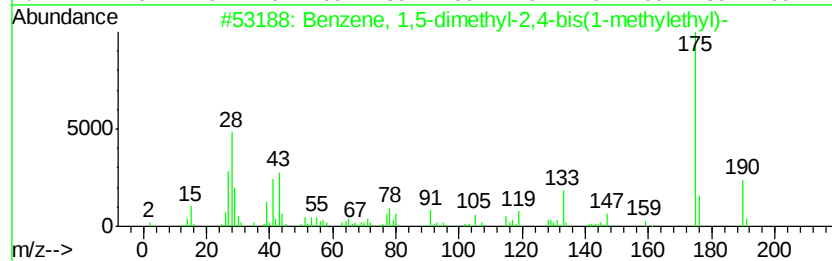
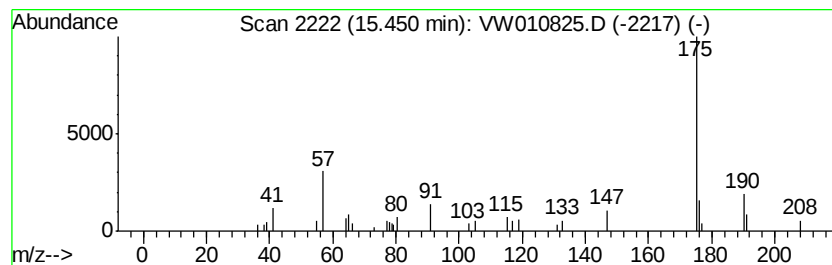
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, 1,5-dimethyl-2,4-b... Concentration Rank 4

| R.T.  | EstConc   | Area | Relative to ISTD       | R.T.  |
|-------|-----------|------|------------------------|-------|
| 15.45 | 2.98 ug/L | 7631 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,5-dimethyl-2,4-bis(1-... | 190 | C14H22  | 005186-68-5 | 80   |
| 2    |    | Benzenepropanal, 4-(1,1-dimethyl... | 190 | C13H18O | 018127-01-0 | 80   |
| 3    |    | Benzene, 1,4-dimethyl-2,5-bis(1-... | 190 | C14H22  | 010375-96-9 | 72   |
| 4    |    | m-Cymene, 5-tert-butyl-             | 190 | C14H22  | 029577-19-3 | 72   |
| 5    |    | Benzene, 1,3-bis(1,1-dimethyleth... | 190 | C14H22  | 001014-60-4 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW061719\  
Data File : VW010825.D  
Acq On : 17 Jun 2019 14:11  
Operator : SY/VA  
Sample : K3363-06  
Misc : 3.62G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM061119S.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 |
| unknown-01           | 2.16  | 4.3     | ug/L  | 40712    | 1                     | 8.84  | 235667 | 25.0 |
| (DEL) Alkane: Str... | 5.95  | 2.6     | ug/L  | 24183    | 1                     | 8.84  | 235667 | 25.0 |
| Benzene, 1,5-dime... | 15.45 | 3.0     | ug/L  | 7631     | 3                     | 13.56 | 64059  | 25.0 |