

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
 Data File : VW009817.D  
 Acq On : 08 Apr 2019 23:06  
 Operator : SY/VA  
 Sample : K2217-09  
 Misc : 5.63G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BF618

## 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\SOM2WLM040319S.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         | 1.959       | 5             | 9           | 17           | rVB3     | 6212           | 11331         | 0.60%           | 0.084%        |
| 2         | 2.093       | 30            | 31          | 34           | rBV2     | 1280           | 1332          | 0.07%           | 0.010%        |
| 3         | 2.160       | 36            | 42          | 48           | rBV2     | 31094          | 67648         | 3.59%           | 0.501%        |
| 4         | 2.355       | 68            | 74          | 87           | rBV      | 64220          | 181700        | 9.64%           | 1.347%        |
| 5         | 2.891       | 155           | 162         | 177          | rVB2     | 66587          | 201607        | 10.69%          | 1.494%        |
| 6         | 4.013       | 333           | 346         | 361          | rBV      | 157720         | 590189        | 31.31%          | 4.374%        |
| 7         | 4.196       | 375           | 376         | 380          | rVB2     | 1574           | 1299          | 0.07%           | 0.010%        |
| 8         | 4.324       | 395           | 397         | 401          | rVB5     | 809            | 1247          | 0.07%           | 0.009%        |
| 9         | 4.367       | 401           | 404         | 405          | rBV3     | 1322           | 1129          | 0.06%           | 0.008%        |
| 10        | 4.409       | 405           | 411         | 418          | rVV4     | 3029           | 7354          | 0.39%           | 0.054%        |
| 11        | 4.708       | 457           | 460         | 464          | rVB4     | 880            | 1325          | 0.07%           | 0.010%        |
| 12        | 4.848       | 479           | 483         | 484          | rBV4     | 1369           | 1862          | 0.10%           | 0.014%        |
| 13        | 4.915       | 484           | 494         | 514          | rVV2     | 21371          | 95769         | 5.08%           | 0.710%        |
| 14        | 5.178       | 529           | 537         | 538          | rBV3     | 1818           | 3964          | 0.21%           | 0.029%        |
| 15        | 5.617       | 604           | 609         | 610          | rBV3     | 890            | 1356          | 0.07%           | 0.010%        |
| 16        | 5.690       | 619           | 621         | 624          | rVB4     | 942            | 1063          | 0.06%           | 0.008%        |
| 17        | 5.763       | 631           | 633         | 635          | rBV2     | 936            | 1081          | 0.06%           | 0.008%        |
| 18        | 5.927       | 649           | 660         | 671          | rVB4     | 10320          | 31909         | 1.69%           | 0.236%        |
| 19        | 6.092       | 685           | 687         | 689          | rBV2     | 927            | 1149          | 0.06%           | 0.009%        |
| 20        | 6.196       | 701           | 704         | 706          | rBV4     | 742            | 1048          | 0.06%           | 0.008%        |
| 21        | 6.793       | 798           | 802         | 804          | rBV4     | 988            | 1379          | 0.07%           | 0.010%        |
| 22        | 7.080       | 840           | 849         | 874          | rBV      | 85982          | 265923        | 14.11%          | 1.971%        |
| 23        | 7.385       | 893           | 899         | 902          | rBV6     | 1126           | 1755          | 0.09%           | 0.013%        |
| 24        | 7.531       | 916           | 923         | 931          | rBV6     | 5436           | 14878         | 0.79%           | 0.110%        |
| 25        | 7.641       | 931           | 941         | 954          | rVB      | 349176         | 842437        | 44.68%          | 6.243%        |
| 26        | 7.915       | 982           | 986         | 988          | rBV5     | 834            | 1080          | 0.06%           | 0.008%        |
| 27        | 8.025       | 1001          | 1004        | 1006         | rBV3     | 1093           | 1421          | 0.08%           | 0.011%        |
| 28        | 8.134       | 1017          | 1022        | 1024         | rVB4     | 821            | 1050          | 0.06%           | 0.008%        |
| 29        | 8.268       | 1031          | 1044        | 1059         | rBV2     | 600721         | 1885280       | 100.00%         | 13.972%       |
| 30        | 8.622       | 1097          | 1102        | 1104         | rBV4     | 1338           | 2497          | 0.13%           | 0.019%        |
| 31        | 8.689       | 1110          | 1113        | 1116         | rBV4     | 1582           | 1721          | 0.09%           | 0.013%        |
| 32        | 8.842       | 1127          | 1138        | 1147         | rBV      | 527790         | 1055854       | 56.01%          | 7.825%        |
| 33        | 9.073       | 1169          | 1176        | 1182         | rVB8     | 7069           | 16808         | 0.89%           | 0.125%        |
| 34        | 9.268       | 1197          | 1208        | 1218         | rBV      | 445819         | 910224        | 48.28%          | 6.746%        |

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 MSVOA\_W  
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## Integration Parameters: LSCINT.P

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\SOM2WLM040319S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |        |         |
|----|--------|------|------|------|------|--------|---------|--------|---------|
| 35 | 9.402  | 1228 | 1230 | 1233 | rVB3 | 1421   | 1303    | 0.07%  | 0.010%  |
| 36 | 9.567  | 1255 | 1257 | 1261 | rVB5 | 1195   | 1322    | 0.07%  | 0.010%  |
| 37 | 9.604  | 1261 | 1263 | 1266 | rBV3 | 1101   | 1474    | 0.08%  | 0.011%  |
| 38 | 9.658  | 1268 | 1272 | 1276 | rVB6 | 3451   | 5653    | 0.30%  | 0.042%  |
| 39 | 9.701  | 1276 | 1279 | 1282 | rBV4 | 1159   | 1847    | 0.10%  | 0.014%  |
| 40 | 9.762  | 1282 | 1289 | 1292 | rBV7 | 2861   | 4720    | 0.25%  | 0.035%  |
| 41 | 9.793  | 1292 | 1294 | 1298 | rVV4 | 1497   | 1898    | 0.10%  | 0.014%  |
| 42 | 9.829  | 1298 | 1300 | 1304 | rVV4 | 1994   | 2982    | 0.16%  | 0.022%  |
| 43 | 9.890  | 1304 | 1310 | 1321 | rVB9 | 4167   | 11988   | 0.64%  | 0.089%  |
| 44 | 10.030 | 1326 | 1333 | 1344 | rBV  | 224363 | 399010  | 21.16% | 2.957%  |
| 45 | 10.195 | 1357 | 1360 | 1361 | rBV3 | 1553   | 1358    | 0.07%  | 0.010%  |
| 46 | 10.213 | 1361 | 1363 | 1364 | rBV2 | 1525   | 1258    | 0.07%  | 0.009%  |
| 47 | 10.323 | 1372 | 1381 | 1388 | rBV  | 798373 | 1392441 | 73.86% | 10.319% |
| 48 | 10.390 | 1389 | 1392 | 1398 | rVB5 | 10646  | 16947   | 0.90%  | 0.126%  |
| 49 | 10.573 | 1416 | 1422 | 1432 | rBV  | 152964 | 269968  | 14.32% | 2.001%  |
| 50 | 10.707 | 1438 | 1444 | 1449 | rBV2 | 7802   | 14307   | 0.76%  | 0.106%  |
| 51 | 10.768 | 1449 | 1454 | 1455 | rBV4 | 9715   | 10720   | 0.57%  | 0.079%  |
| 52 | 10.927 | 1474 | 1480 | 1492 | rBV2 | 341297 | 617070  | 32.73% | 4.573%  |
| 53 | 11.530 | 1574 | 1579 | 1580 | rBV5 | 6540   | 10355   | 0.55%  | 0.077%  |
| 54 | 11.628 | 1588 | 1595 | 1604 | rVB  | 772539 | 1290246 | 68.44% | 9.562%  |
| 55 | 12.432 | 1723 | 1727 | 1728 | rBV3 | 1531   | 1675    | 0.09%  | 0.012%  |
| 56 | 12.463 | 1728 | 1732 | 1737 | rBV7 | 1820   | 2593    | 0.14%  | 0.019%  |
| 57 | 12.597 | 1748 | 1754 | 1760 | rBV3 | 27891  | 63580   | 3.37%  | 0.471%  |
| 58 | 12.695 | 1762 | 1770 | 1777 | rBV  | 446724 | 730303  | 38.74% | 5.412%  |
| 59 | 12.755 | 1777 | 1780 | 1786 | rVB5 | 4720   | 8825    | 0.47%  | 0.065%  |
| 60 | 12.841 | 1791 | 1794 | 1797 | rVB5 | 894    | 1171    | 0.06%  | 0.009%  |
| 61 | 12.884 | 1797 | 1801 | 1805 | rVB5 | 1899   | 2968    | 0.16%  | 0.022%  |
| 62 | 12.963 | 1805 | 1814 | 1818 | rBV7 | 5484   | 14723   | 0.78%  | 0.109%  |
| 63 | 13.121 | 1834 | 1840 | 1845 | rBV4 | 9079   | 16198   | 0.86%  | 0.120%  |
| 64 | 13.194 | 1845 | 1852 | 1857 | rVB3 | 11323  | 22117   | 1.17%  | 0.164%  |
| 65 | 13.304 | 1866 | 1870 | 1878 | rVB4 | 8409   | 14042   | 0.74%  | 0.104%  |
| 66 | 13.414 | 1882 | 1888 | 1893 | rVB3 | 15241  | 26916   | 1.43%  | 0.199%  |
| 67 | 13.481 | 1894 | 1899 | 1900 | rBV4 | 3177   | 3967    | 0.21%  | 0.029%  |
| 68 | 13.511 | 1900 | 1904 | 1906 | rBV4 | 5943   | 9680    | 0.51%  | 0.072%  |
| 69 | 13.560 | 1906 | 1912 | 1918 | rBV  | 668897 | 1051358 | 55.77% | 7.792%  |
| 70 | 13.768 | 1941 | 1946 | 1952 | rBV6 | 6307   | 10878   | 0.58%  | 0.081%  |
| 71 | 13.853 | 1952 | 1960 | 1967 | rBV  | 687806 | 1125674 | 59.71% | 8.342%  |

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## Integration Parameters: LSCINT.P

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 Smoothing : OFF  
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 Start Thrs: 0.2  
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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\SOM2WLM040319S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |       |       |       |        |
|-----|--------|------|------|------|------|-------|-------|-------|--------|
| 72  | 13.908 | 1967 | 1969 | 1973 | rVB5 | 8244  | 9486  | 0.50% | 0.070% |
| 73  | 14.024 | 1985 | 1988 | 1989 | rBV3 | 2170  | 2421  | 0.13% | 0.018% |
| 74  | 14.078 | 1992 | 1997 | 2005 | rVB2 | 14289 | 25505 | 1.35% | 0.189% |
| 75  | 14.334 | 2034 | 2039 | 2042 | rBV6 | 3786  | 4540  | 0.24% | 0.034% |
| 76  | 14.499 | 2062 | 2066 | 2067 | rBV3 | 2636  | 3233  | 0.17% | 0.024% |
| 77  | 14.639 | 2084 | 2089 | 2093 | rVB5 | 2009  | 3529  | 0.19% | 0.026% |
| 78  | 14.712 | 2098 | 2101 | 2102 | rBV3 | 1455  | 1413  | 0.07% | 0.010% |
| 79  | 14.786 | 2110 | 2113 | 2115 | rBV3 | 1020  | 1082  | 0.06% | 0.008% |
| 80  | 14.908 | 2129 | 2133 | 2134 | rBV3 | 928   | 1069  | 0.06% | 0.008% |
| 81  | 15.127 | 2166 | 2169 | 2171 | rBV4 | 1696  | 1858  | 0.10% | 0.014% |
| 82  | 15.188 | 2177 | 2179 | 2182 | rVB3 | 1545  | 1677  | 0.09% | 0.012% |
| 83  | 15.261 | 2189 | 2191 | 2194 | rVB4 | 2007  | 2054  | 0.11% | 0.015% |
| 84  | 15.340 | 2202 | 2204 | 2207 | rBV4 | 1145  | 1180  | 0.06% | 0.009% |
| 85  | 15.365 | 2207 | 2208 | 2211 | rBV3 | 1227  | 1450  | 0.08% | 0.011% |
| 86  | 15.444 | 2212 | 2221 | 2226 | rVV6 | 9991  | 23844 | 1.26% | 0.177% |
| 87  | 15.505 | 2226 | 2231 | 2236 | rVB  | 5473  | 8498  | 0.45% | 0.063% |
| 88  | 15.810 | 2275 | 2281 | 2285 | rBV7 | 5925  | 10371 | 0.55% | 0.077% |
| 89  | 15.889 | 2292 | 2294 | 2295 | rBV2 | 1338  | 1141  | 0.06% | 0.008% |
| 90  | 15.962 | 2300 | 2306 | 2307 | rBV4 | 2793  | 3082  | 0.16% | 0.023% |
| 91  | 15.981 | 2307 | 2309 | 2314 | rVV5 | 2796  | 3208  | 0.17% | 0.024% |
| 92  | 16.023 | 2314 | 2316 | 2319 | rVV4 | 1283  | 1367  | 0.07% | 0.010% |
| 93  | 16.054 | 2319 | 2321 | 2324 | rVB3 | 1306  | 1118  | 0.06% | 0.008% |
| 94  | 16.224 | 2346 | 2349 | 2351 | rBV2 | 1063  | 1686  | 0.09% | 0.012% |
| 95  | 16.316 | 2362 | 2364 | 2367 | rVB4 | 1591  | 1421  | 0.08% | 0.011% |
| 96  | 16.352 | 2367 | 2370 | 2371 | rBV2 | 1018  | 1222  | 0.06% | 0.009% |
| 97  | 16.395 | 2375 | 2377 | 2380 | rVB3 | 1463  | 1215  | 0.06% | 0.009% |
| 98  | 16.432 | 2382 | 2383 | 2386 | rBV2 | 972   | 1067  | 0.06% | 0.008% |
| 99  | 16.560 | 2402 | 2404 | 2408 | rVB4 | 1207  | 1496  | 0.08% | 0.011% |
| 100 | 16.694 | 2423 | 2426 | 2427 | rBV3 | 1053  | 1162  | 0.06% | 0.009% |

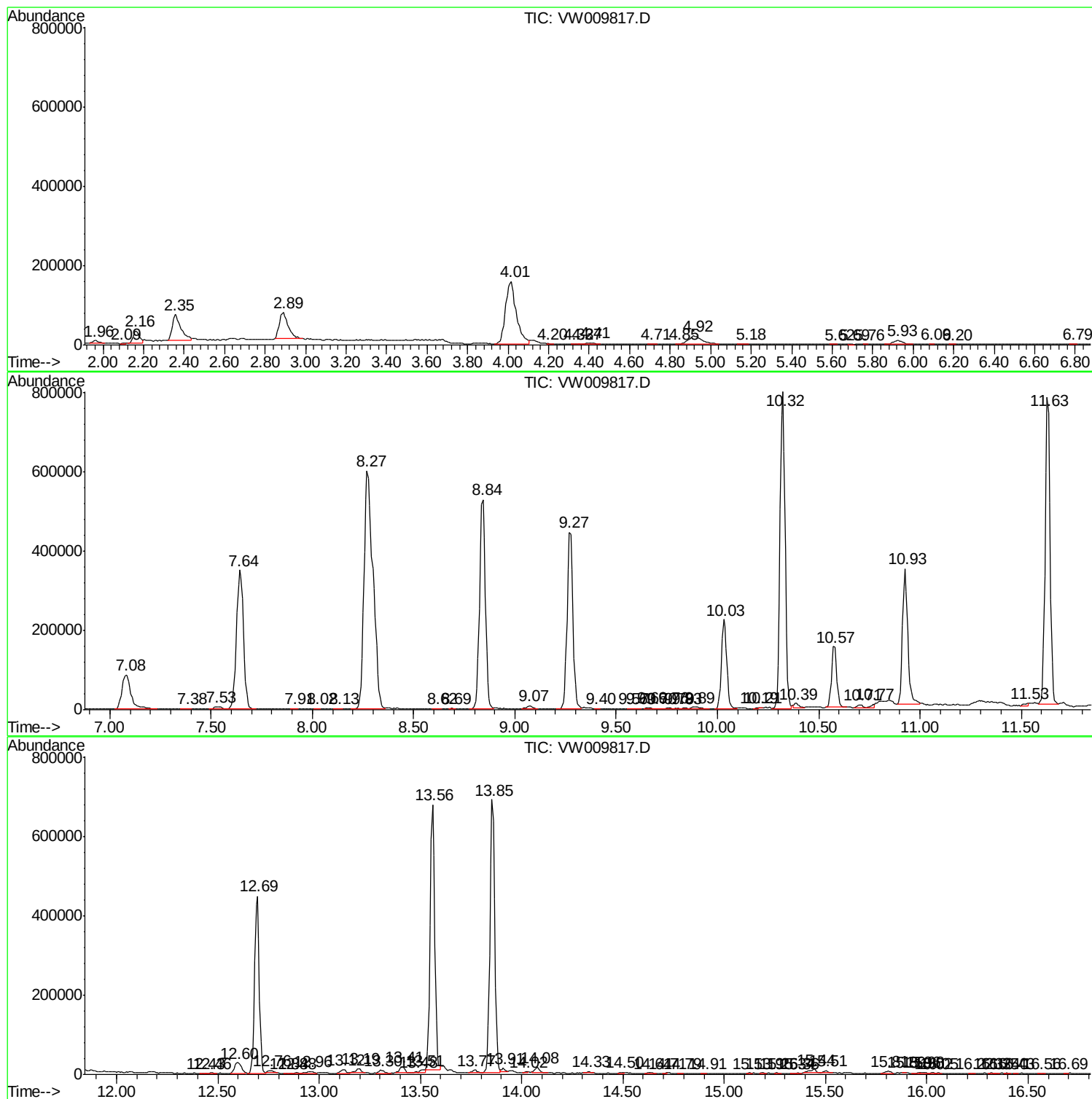
Sum of corrected areas: 13493599

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW040819\  
Data File : VW009817.D  
Acq On : 08 Apr 2019 23:06  
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Misc : 5.63G/10ML/MSVOA W/SOIL  
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Instrument :  
MSVOA\_W  
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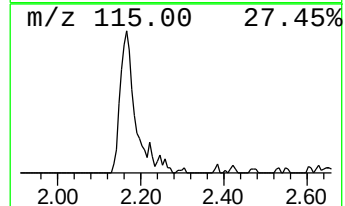
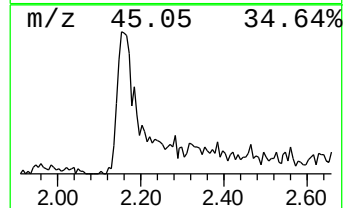
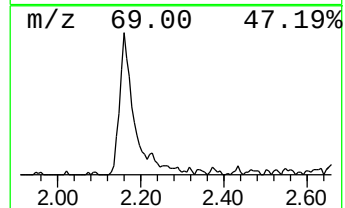
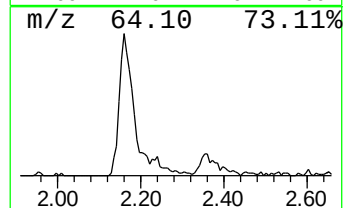
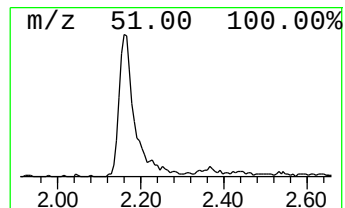
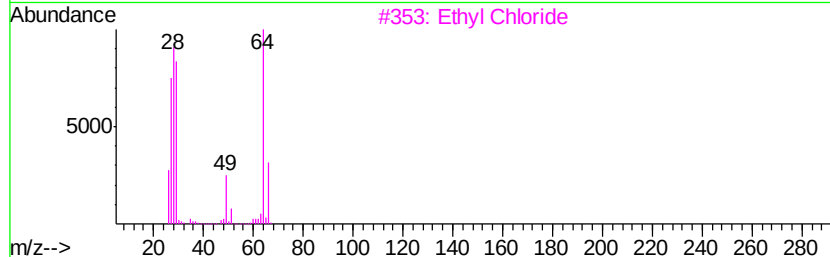
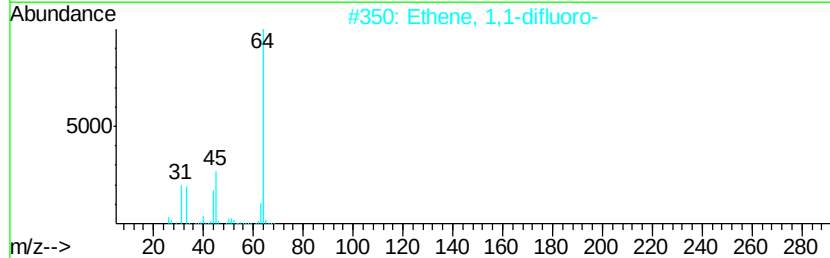
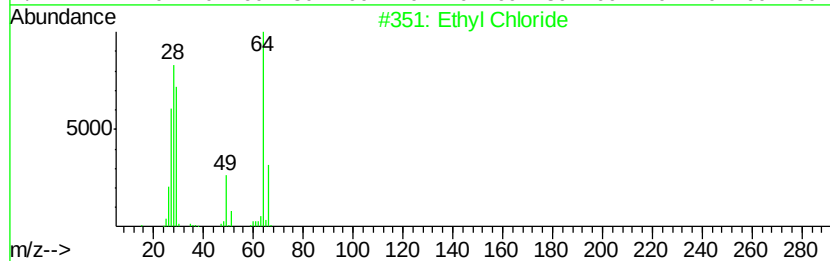
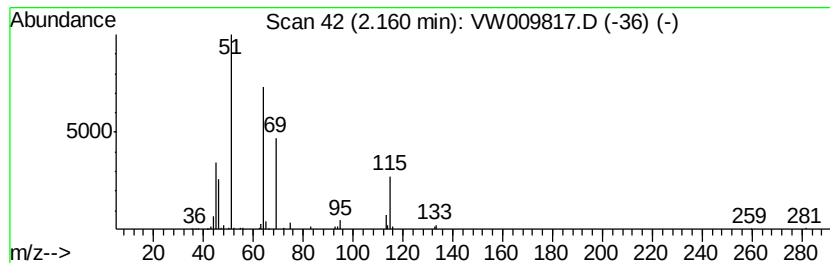
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis

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

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Peak Number 1 unknown-01 Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.16 | 1.60 ug/L | 67648 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Ethyl Chloride                      | 64  | C2H5Cl  | 000075-00-3 | 10   |
| 2    |    |   | Ethene, 1,1-difluoro-               | 64  | C2H2F2  | 000075-38-7 | 9    |
| 3    |    |   | Ethyl Chloride                      | 64  | C2H5Cl  | 000075-00-3 | 9    |
| 4    |    |   | Ethene, 1,1-difluoro-               | 64  | C2H2F2  | 000075-38-7 | 9    |
| 5    |    |   | Difluoroaminofluoroaminodifluoro... | 136 | CHF5N2  | 037931-37-6 | 9    |



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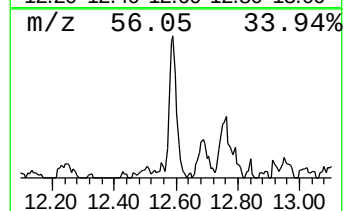
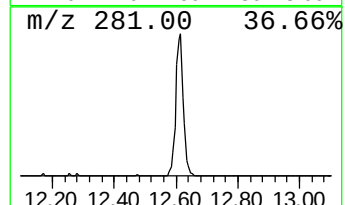
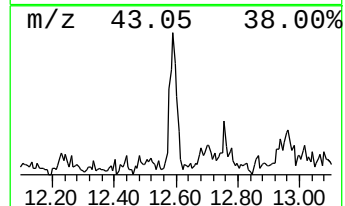
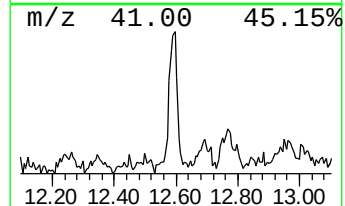
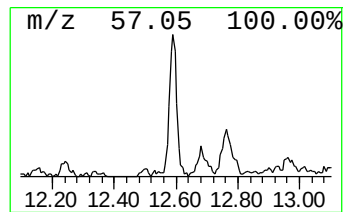
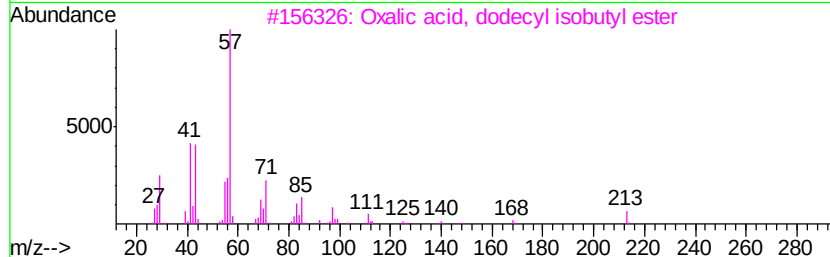
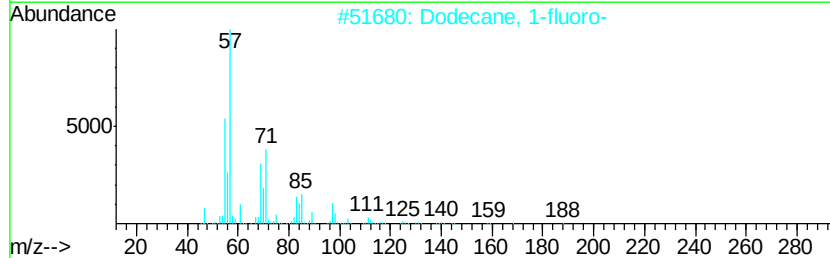
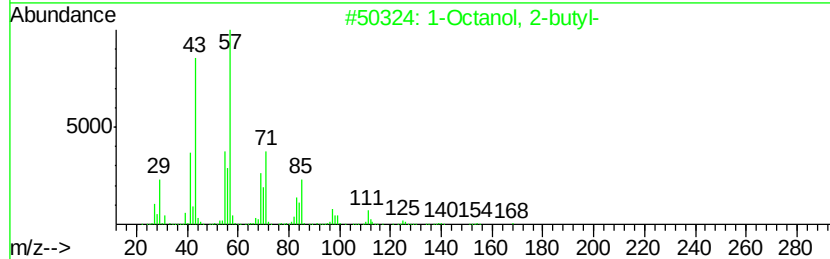
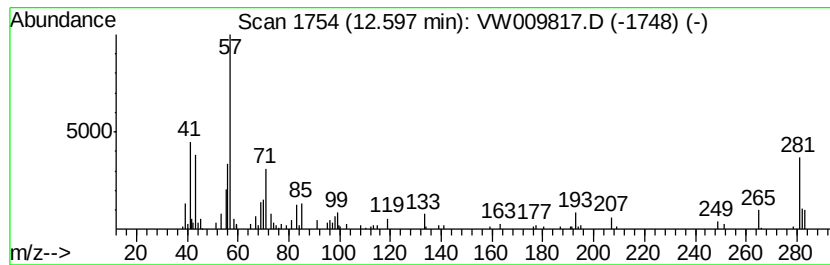
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 3 unknown-02 Concentration Rank 3

| R.T.      | EstConc                             | Area  | Relative to ISTD       | R.T.         |      |
|-----------|-------------------------------------|-------|------------------------|--------------|------|
| 12.60     | 1.51 ug/L                           | 63580 | 1,4-Dichlorobenzene-d4 | 13.56        |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm                | CAS#         | Qual |
| 1         | 1-Octanol, 2-butyl-                 | 186   | C12H26O                | 003913-02-8  | 43   |
| 2         | Dodecane, 1-fluoro-                 | 188   | C12H25F                | 000334-68-9  | 43   |
| 3         | Oxalic acid, dodecyl isobutyl ester | 314   | C18H34O4               | 1000309-37-7 | 43   |
| 4         | Decane, 2,5,6-trimethyl-            | 184   | C13H28                 | 062108-23-0  | 43   |
| 5         | Undecane, 3,5-dimethyl-             | 184   | C13H28                 | 017312-81-1  | 35   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW040819\  
Data File : VW009817.D  
Acq On : 08 Apr 2019 23:06  
Operator : SY/VA  
Sample : K2217-09  
Misc : 5.63G/10ML/MSVOA\_W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF618

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.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  | 1.6     | ug/L  | 67648    | 1                     | 8.84  | 1055850 | 25.0 |
| unknown-02       | 12.60 | 1.5     | ug/L  | 63580    | 3                     | 13.56 | 1051360 | 25.0 |