

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102419\  
 Data File : VV013317.D  
 Acq On : 24 Oct 2019 15:26  
 Operator : SY/MD  
 Sample : K5308-01DL 4X  
 Misc : 5.00ML/MSVOA V/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 X2J19

## 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\_V\METHOD\SOMVLM102319WMA.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.319    | 64         | 71       | 89        | rVB   | 588258      | 625732     | 12.88%       | 1.232%     |
| 2      | 1.579    | 145        | 152      | 167       | rVB   | 468786      | 551317     | 11.35%       | 1.086%     |
| 3      | 1.772    | 205        | 212      | 224       | rVB   | 71450       | 98670      | 2.03%        | 0.194%     |
| 4      | 2.129    | 313        | 323      | 333       | rBV   | 1045212     | 1577546    | 32.48%       | 3.107%     |
| 5      | 2.184    | 333        | 340      | 353       | rVB   | 532149      | 768808     | 15.83%       | 1.514%     |
| 6      | 2.315    | 379        | 381      | 394       | rVB3  | 5787        | 8518       | 0.18%        | 0.017%     |
| 7      | 2.380    | 398        | 401      | 404       | rVB5  | 1993        | 1216       | 0.03%        | 0.002%     |
| 8      | 2.454    | 415        | 424      | 440       | rBV   | 153435      | 247963     | 5.11%        | 0.488%     |
| 9      | 2.534    | 441        | 449      | 463       | rVB   | 80657       | 135898     | 2.80%        | 0.268%     |
| 10     | 2.653    | 477        | 486      | 494       | rVB4  | 8086        | 15570      | 0.32%        | 0.031%     |
| 11     | 2.740    | 508        | 513      | 515       | rBV5  | 1659        | 1562       | 0.03%        | 0.003%     |
| 12     | 2.801    | 516        | 532      | 552       | rVV   | 550813      | 1127090    | 23.21%       | 2.219%     |
| 13     | 3.180    | 646        | 650      | 652       | rBV4  | 1474        | 1017       | 0.02%        | 0.002%     |
| 14     | 3.315    | 690        | 692      | 698       | rBV5  | 1744        | 1100       | 0.02%        | 0.002%     |
| 15     | 3.412    | 720        | 722      | 728       | rVV6  | 1380        | 1189       | 0.02%        | 0.002%     |
| 16     | 3.692    | 802        | 809      | 815       | rBV6  | 1354        | 1384       | 0.03%        | 0.003%     |
| 17     | 3.766    | 828        | 832      | 838       | rVB8  | 1436        | 1353       | 0.03%        | 0.003%     |
| 18     | 3.843    | 852        | 856      | 858       | rBV6  | 1725        | 1010       | 0.02%        | 0.002%     |
| 19     | 3.881    | 865        | 868      | 869       | rBV3  | 1711        | 1127       | 0.02%        | 0.002%     |
| 20     | 3.917    | 869        | 879      | 900       | rBV   | 385937      | 1003313    | 20.66%       | 1.976%     |
| 21     | 4.396    | 1009       | 1028     | 1058      | rBV   | 789119      | 1912084    | 39.37%       | 3.765%     |
| 22     | 4.727    | 1114       | 1131     | 1144      | rBV4  | 45237       | 114233     | 2.35%        | 0.225%     |
| 23     | 4.910    | 1185       | 1188     | 1191      | rBV3  | 1217        | 1146       | 0.02%        | 0.002%     |
| 24     | 4.991    | 1207       | 1213     | 1218      | rVB9  | 1916        | 1637       | 0.03%        | 0.003%     |
| 25     | 5.090    | 1226       | 1244     | 1262      | rBV2  | 1920406     | 4856944    | 100.00%      | 9.564%     |
| 26     | 5.177    | 1262       | 1271     | 1302      | rVB   | 180951      | 401709     | 8.27%        | 0.791%     |
| 27     | 5.370    | 1328       | 1331     | 1333      | rVB3  | 1947        | 1103       | 0.02%        | 0.002%     |
| 28     | 5.454    | 1351       | 1357     | 1363      | rBV8  | 2888        | 3142       | 0.06%        | 0.006%     |
| 29     | 5.479    | 1363       | 1365     | 1369      | rVB4  | 1789        | 1177       | 0.02%        | 0.002%     |
| 30     | 5.659    | 1407       | 1421     | 1444      | rBV   | 1436971     | 2812878    | 57.91%       | 5.539%     |
| 31     | 5.955    | 1497       | 1513     | 1534      | rBV3  | 182276      | 405480     | 8.35%        | 0.798%     |
| 32     | 6.113    | 1547       | 1562     | 1574      | rBV   | 1103843     | 2187477    | 45.04%       | 4.308%     |
| 33     | 6.351    | 1632       | 1636     | 1638      | rBV3  | 1619        | 1106       | 0.02%        | 0.002%     |
| 34     | 6.412    | 1644       | 1655     | 1662      | rBV3  | 13428       | 24353      | 0.50%        | 0.048%     |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102319WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |         |         |        |        |
|----|-------|------|------|------|------|---------|---------|--------|--------|
| 35 | 6.505 | 1682 | 1684 | 1688 | rVB5 | 1567    | 1087    | 0.02%  | 0.002% |
| 36 | 6.527 | 1688 | 1691 | 1696 | rBV6 | 2490    | 2194    | 0.05%  | 0.004% |
| 37 | 6.556 | 1697 | 1700 | 1705 | rVB7 | 1562    | 1354    | 0.03%  | 0.003% |
| 38 | 6.598 | 1710 | 1713 | 1716 | rVB4 | 1561    | 1211    | 0.02%  | 0.002% |
| 39 | 6.640 | 1722 | 1726 | 1727 | rBV4 | 1796    | 990     | 0.02%  | 0.002% |
| 40 | 6.737 | 1753 | 1756 | 1759 | rVB4 | 2161    | 1084    | 0.02%  | 0.002% |
| 41 | 6.756 | 1759 | 1762 | 1767 | rBV7 | 1480    | 1046    | 0.02%  | 0.002% |
| 42 | 6.910 | 1804 | 1810 | 1814 | rBV8 | 1764    | 1377    | 0.03%  | 0.003% |
| 43 | 7.026 | 1832 | 1846 | 1867 | rBV  | 613547  | 1076887 | 22.17% | 2.121% |
| 44 | 7.187 | 1892 | 1896 | 1901 | rVB8 | 2161    | 2092    | 0.04%  | 0.004% |
| 45 | 7.216 | 1901 | 1905 | 1908 | rBV6 | 1601    | 1283    | 0.03%  | 0.003% |
| 46 | 7.267 | 1908 | 1921 | 1936 | rBV  | 533336  | 953030  | 19.62% | 1.877% |
| 47 | 7.357 | 1936 | 1949 | 1962 | rVV  | 2376509 | 4133894 | 85.11% | 8.141% |
| 48 | 7.428 | 1962 | 1971 | 1991 | rVB  | 482069  | 847580  | 17.45% | 1.669% |
| 49 | 7.659 | 2029 | 2043 | 2067 | rBV  | 441218  | 742369  | 15.28% | 1.462% |
| 50 | 7.810 | 2087 | 2090 | 2093 | rBV5 | 1972    | 1368    | 0.03%  | 0.003% |
| 51 | 7.900 | 2116 | 2118 | 2122 | rVB5 | 2599    | 1499    | 0.03%  | 0.003% |
| 52 | 7.958 | 2133 | 2136 | 2139 | rBV4 | 1885    | 1787    | 0.04%  | 0.004% |
| 53 | 8.016 | 2142 | 2154 | 2167 | rVB  | 94724   | 162214  | 3.34%  | 0.319% |
| 54 | 8.126 | 2177 | 2188 | 2198 | rBV  | 1217464 | 2051295 | 42.23% | 4.039% |
| 55 | 8.177 | 2198 | 2204 | 2227 | rVB  | 446025  | 791531  | 16.30% | 1.559% |
| 56 | 8.511 | 2306 | 2308 | 2315 | rVB7 | 3312    | 3041    | 0.06%  | 0.006% |
| 57 | 8.569 | 2324 | 2326 | 2330 | rBV4 | 1736    | 1542    | 0.03%  | 0.003% |
| 58 | 8.727 | 2372 | 2375 | 2380 | rVB6 | 2549    | 2010    | 0.04%  | 0.004% |
| 59 | 8.752 | 2380 | 2383 | 2385 | rBV4 | 1974    | 1257    | 0.03%  | 0.002% |
| 60 | 8.891 | 2412 | 2426 | 2457 | rVV  | 2200610 | 3858012 | 79.43% | 7.597% |
| 61 | 9.052 | 2466 | 2476 | 2495 | rVB  | 293504  | 467303  | 9.62%  | 0.920% |
| 62 | 9.174 | 2502 | 2514 | 2531 | rBV  | 801802  | 1239362 | 25.52% | 2.441% |
| 63 | 9.328 | 2560 | 2562 | 2566 | rVB5 | 2049    | 1120    | 0.02%  | 0.002% |
| 64 | 9.408 | 2584 | 2587 | 2591 | rVB6 | 1672    | 1121    | 0.02%  | 0.002% |
| 65 | 9.437 | 2591 | 2596 | 2599 | rVV6 | 1462    | 1450    | 0.03%  | 0.003% |
| 66 | 9.476 | 2603 | 2608 | 2613 | rBV7 | 2161    | 2649    | 0.05%  | 0.005% |
| 67 | 9.595 | 2629 | 2645 | 2663 | rBV3 | 724183  | 1547300 | 31.86% | 3.047% |
| 68 | 9.772 | 2695 | 2700 | 2707 | rVB9 | 2278    | 2225    | 0.05%  | 0.004% |
| 69 | 9.842 | 2719 | 2722 | 2726 | rBV5 | 1783    | 1201    | 0.02%  | 0.002% |
| 70 | 9.900 | 2738 | 2740 | 2744 | rVB5 | 2221    | 1232    | 0.03%  | 0.002% |
| 71 | 9.971 | 2749 | 2762 | 2777 | rBV  | 607217  | 950240  | 19.56% | 1.871% |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102319WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |       |         |         |        |        |
|-----|--------|------|------|------|-------|---------|---------|--------|--------|
| 72  | 10.113 | 2801 | 2806 | 2807 | rBV4  | 1908    | 1547    | 0.03%  | 0.003% |
| 73  | 10.125 | 2807 | 2810 | 2816 | rVB6  | 3126    | 2545    | 0.05%  | 0.005% |
| 74  | 10.257 | 2837 | 2851 | 2875 | rBV   | 1886579 | 2962123 | 60.99% | 5.833% |
| 75  | 10.624 | 2964 | 2965 | 2970 | rBV4  | 1474    | 1014    | 0.02%  | 0.002% |
| 76  | 10.759 | 3004 | 3007 | 3012 | rVB3  | 1421    | 1046    | 0.02%  | 0.002% |
| 77  | 10.891 | 3044 | 3048 | 3056 | rVB8  | 3241    | 3925    | 0.08%  | 0.008% |
| 78  | 10.929 | 3056 | 3060 | 3064 | rBV7  | 1625    | 1839    | 0.04%  | 0.004% |
| 79  | 11.206 | 3142 | 3146 | 3147 | rVV3  | 4607    | 3314    | 0.07%  | 0.007% |
| 80  | 11.228 | 3147 | 3153 | 3160 | rVV3  | 13514   | 20828   | 0.43%  | 0.041% |
| 81  | 11.289 | 3160 | 3172 | 3196 | rVV   | 2248277 | 3717290 | 76.54% | 7.320% |
| 82  | 11.498 | 3235 | 3237 | 3240 | rVB4  | 2535    | 1477    | 0.03%  | 0.003% |
| 83  | 11.617 | 3271 | 3274 | 3277 | rBV3  | 1672    | 1242    | 0.03%  | 0.002% |
| 84  | 11.666 | 3277 | 3289 | 3313 | rVV   | 2490662 | 4196618 | 86.40% | 8.264% |
| 85  | 11.842 | 3342 | 3344 | 3346 | rBV3  | 1822    | 1156    | 0.02%  | 0.002% |
| 86  | 12.064 | 3410 | 3413 | 3415 | rVB3  | 1882    | 1009    | 0.02%  | 0.002% |
| 87  | 12.154 | 3437 | 3441 | 3444 | rBV3  | 1564    | 1062    | 0.02%  | 0.002% |
| 88  | 12.289 | 3475 | 3483 | 3496 | rBV5  | 12906   | 23934   | 0.49%  | 0.047% |
| 89  | 12.360 | 3503 | 3505 | 3510 | rVB4  | 1469    | 979     | 0.02%  | 0.002% |
| 90  | 12.601 | 3575 | 3580 | 3583 | rBV7  | 1934    | 1854    | 0.04%  | 0.004% |
| 91  | 12.688 | 3594 | 3607 | 3624 | rBV   | 551490  | 863169  | 17.77% | 1.700% |
| 92  | 12.926 | 3678 | 3681 | 3687 | rBV7  | 1735    | 1657    | 0.03%  | 0.003% |
| 93  | 12.977 | 3695 | 3697 | 3701 | rBV4  | 1212    | 981     | 0.02%  | 0.002% |
| 94  | 13.077 | 3726 | 3728 | 3732 | rVB4  | 2226    | 1383    | 0.03%  | 0.003% |
| 95  | 13.305 | 3788 | 3799 | 3817 | rBV   | 181935  | 298265  | 6.14%  | 0.587% |
| 96  | 13.447 | 3839 | 3843 | 3846 | rBV4  | 1678    | 1696    | 0.03%  | 0.003% |
| 97  | 13.630 | 3898 | 3900 | 3904 | rVB5  | 1807    | 1037    | 0.02%  | 0.002% |
| 98  | 13.694 | 3918 | 3920 | 3929 | rBV10 | 2241    | 2338    | 0.05%  | 0.005% |
| 99  | 13.788 | 3937 | 3949 | 3973 | rBV   | 569739  | 911161  | 18.76% | 1.794% |
| 100 | 14.141 | 4057 | 4059 | 4061 | rBV3  | 2256    | 1218    | 0.03%  | 0.002% |

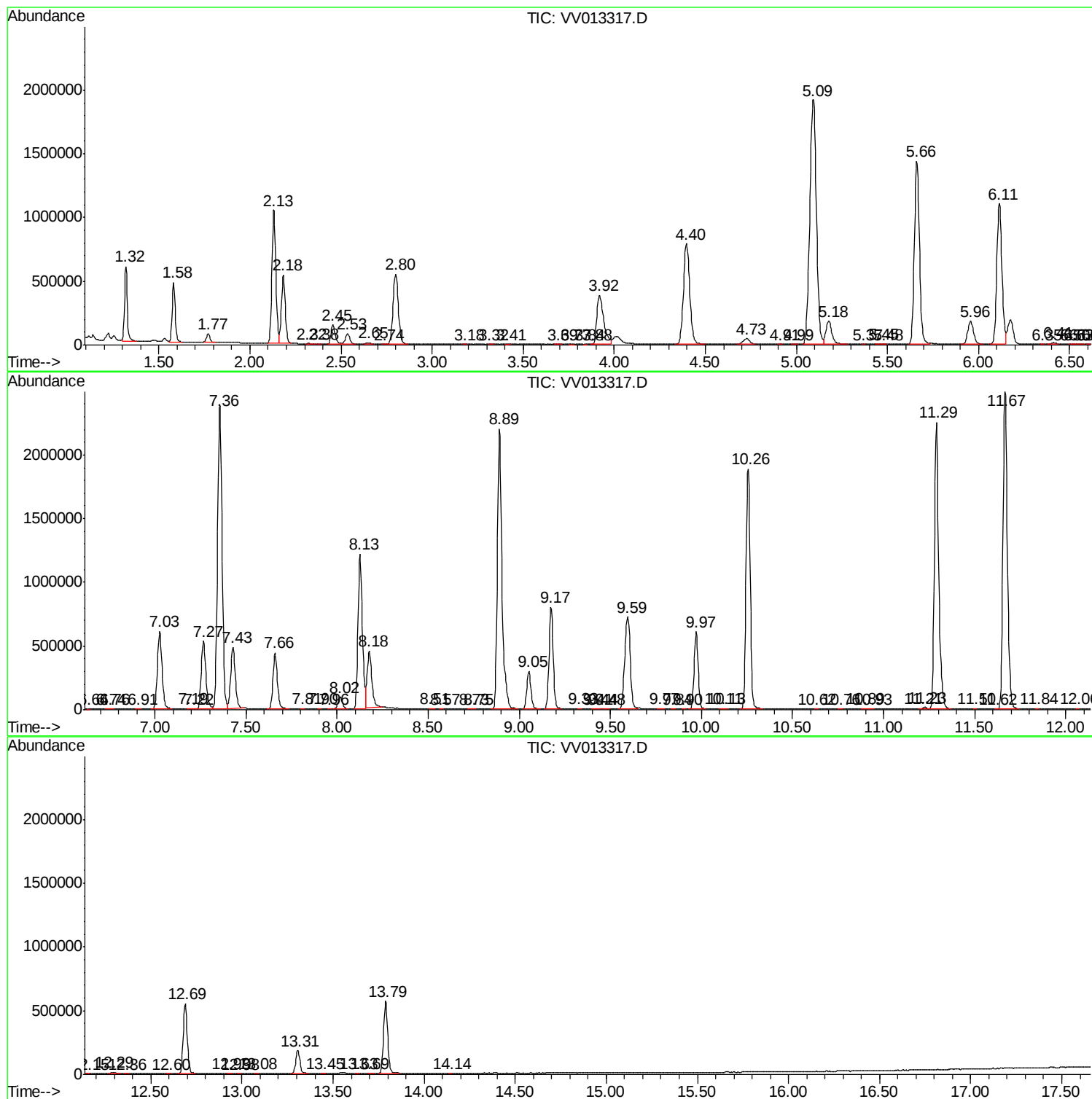
Sum of corrected areas: 50781796

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102319WMA.M  
Quant Title : VOC Analysis

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



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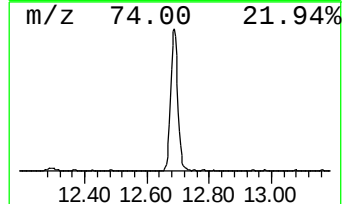
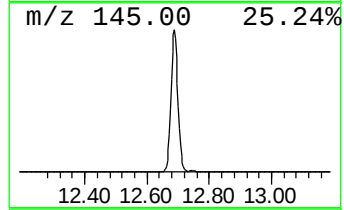
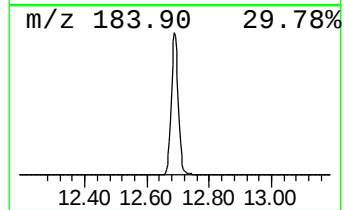
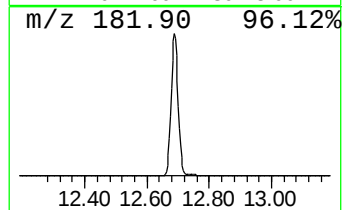
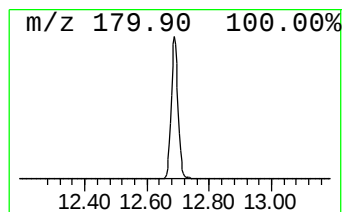
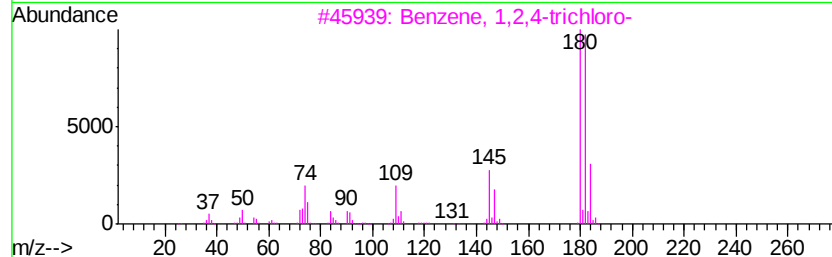
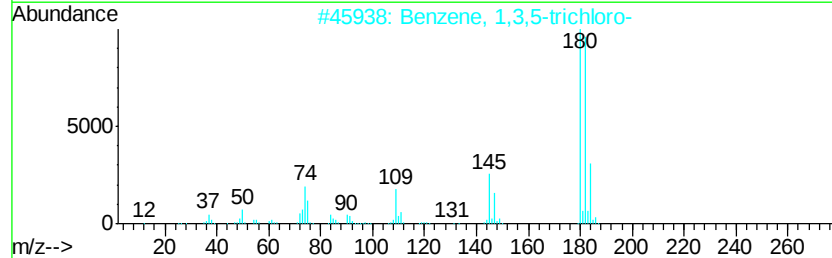
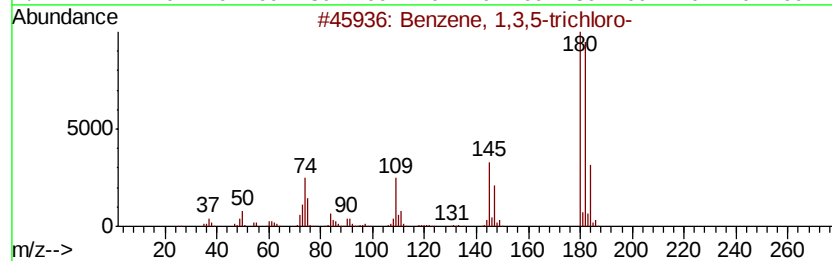
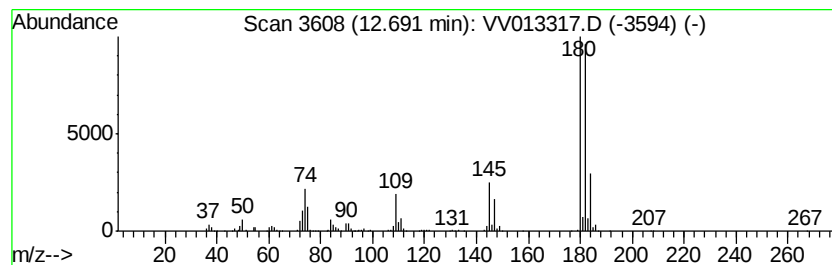
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102319WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 2 Benzene, 1,3,5-trichloro- Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.69 | 11.61 ug/L | 863169 | 1,4-Dichlorobenzene-d4 | 11.29 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3,5-trichloro- | 180 | C6H3Cl3 | 000108-70-3 | 98   |
| 2    |    | Benzene, 1,3,5-trichloro- | 180 | C6H3Cl3 | 000108-70-3 | 98   |
| 3    |    | Benzene, 1,2,4-trichloro- | 180 | C6H3Cl3 | 000120-82-1 | 98   |
| 4    |    | Benzene, 1,3,5-trichloro- | 180 | C6H3Cl3 | 000108-70-3 | 97   |
| 5    |    | Benzene, 1,2,3-trichloro- | 180 | C6H3Cl3 | 000087-61-6 | 95   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| -----                |       |         |       |          |                       |       |         |      |
| Benzene, 1,3,5-tr... | 12.69 | 11.6    | ug/L  | 863169   | 3                     | 11.29 | 3717290 | 50.0 |