

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100818\  
 Data File : VU027495.D  
 Acq On : 08 Oct 2018 13:19  
 Operator : MD/SY  
 Sample : J5250-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0908

## 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\_U\METHOD\SOMULM100518WMA.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      | 1.398    | 64         | 70       | 81        | rBV   | 102593      | 105387     | 2.94%        | 0.929%     |
| 2      | 1.681    | 151        | 158      | 176       | rVB   | 78727       | 100644     | 2.80%        | 0.887%     |
| 3      | 2.273    | 332        | 342      | 351       | rBV   | 162786      | 244026     | 6.80%        | 2.150%     |
| 4      | 2.447    | 386        | 396      | 415       | rBV   | 13399       | 24074      | 0.67%        | 0.212%     |
| 5      | 2.649    | 457        | 459      | 462       | rBV2  | 189         | 106        | 0.00%        | 0.001%     |
| 6      | 2.672    | 462        | 466      | 469       | rBV2  | 259         | 257        | 0.01%        | 0.002%     |
| 7      | 2.704    | 473        | 476      | 477       | rBV   | 297         | 182        | 0.01%        | 0.002%     |
| 8      | 2.771    | 493        | 497      | 500       | rBV2  | 178         | 163        | 0.00%        | 0.001%     |
| 9      | 2.842    | 507        | 519      | 533       | rVB3  | 5417        | 11746      | 0.33%        | 0.103%     |
| 10     | 2.900    | 533        | 537      | 540       | rBV2  | 198         | 154        | 0.00%        | 0.001%     |
| 11     | 3.025    | 572        | 576      | 579       | rBV2  | 197         | 183        | 0.01%        | 0.002%     |
| 12     | 3.132    | 607        | 609      | 611       | rBV   | 166         | 96         | 0.00%        | 0.001%     |
| 13     | 3.193    | 619        | 628      | 638       | rBV2  | 1101        | 2127       | 0.06%        | 0.019%     |
| 14     | 3.296    | 655        | 660      | 662       | rBV   | 152         | 108        | 0.00%        | 0.001%     |
| 15     | 3.350    | 673        | 677      | 680       | rVB2  | 178         | 122        | 0.00%        | 0.001%     |
| 16     | 3.418    | 695        | 698      | 700       | rBV   | 158         | 81         | 0.00%        | 0.001%     |
| 17     | 3.459    | 709        | 711      | 714       | rVB2  | 210         | 123        | 0.00%        | 0.001%     |
| 18     | 3.482    | 715        | 718      | 719       | rBV   | 199         | 108        | 0.00%        | 0.001%     |
| 19     | 3.508    | 723        | 726      | 732       | rVB2  | 177         | 157        | 0.00%        | 0.001%     |
| 20     | 3.543    | 732        | 737      | 743       | rVB2  | 317         | 395        | 0.01%        | 0.003%     |
| 21     | 3.595    | 743        | 753      | 757       | rBV2  | 250         | 368        | 0.01%        | 0.003%     |
| 22     | 3.646    | 763        | 769      | 771       | rBV2  | 155         | 177        | 0.00%        | 0.002%     |
| 23     | 3.717    | 789        | 791      | 799       | rVB2  | 192         | 208        | 0.01%        | 0.002%     |
| 24     | 3.771    | 803        | 808      | 811       | rBV   | 158         | 203        | 0.01%        | 0.002%     |
| 25     | 3.877    | 838        | 841      | 843       | rBV   | 165         | 90         | 0.00%        | 0.001%     |
| 26     | 3.951    | 861        | 864      | 867       | rVB   | 170         | 81         | 0.00%        | 0.001%     |
| 27     | 4.032    | 885        | 889      | 893       | rBV   | 236         | 224        | 0.01%        | 0.002%     |
| 28     | 4.183    | 921        | 936      | 985       | rBV2  | 91548       | 273333     | 7.62%        | 2.408%     |
| 29     | 4.521    | 1039       | 1041     | 1044      | rBV2  | 143         | 90         | 0.00%        | 0.001%     |
| 30     | 4.559    | 1051       | 1053     | 1055      | rVB   | 219         | 103        | 0.00%        | 0.001%     |
| 31     | 4.652    | 1060       | 1082     | 1109      | rBV   | 127278      | 300488     | 8.37%        | 2.647%     |
| 32     | 4.884    | 1150       | 1154     | 1157      | rBV2  | 601         | 550        | 0.02%        | 0.005%     |
| 33     | 4.945    | 1171       | 1173     | 1176      | rVB2  | 161         | 93         | 0.00%        | 0.001%     |
| 34     | 4.967    | 1176       | 1180     | 1183      | rVB   | 183         | 95         | 0.00%        | 0.001%     |

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 Stop Thrs : 0

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 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\_U\METHOD\SOMULM100518WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |        |        |        |
|----|-------|------|------|------|------|--------|--------|--------|--------|
| 35 | 4.990 | 1184 | 1187 | 1190 | rBV2 | 346    | 241    | 0.01%  | 0.002% |
| 36 | 5.170 | 1239 | 1243 | 1244 | rBV  | 136    | 99     | 0.00%  | 0.001% |
| 37 | 5.344 | 1271 | 1297 | 1329 | rBV2 | 256940 | 789218 | 21.99% | 6.954% |
| 38 | 5.575 | 1365 | 1369 | 1374 | rBV  | 97     | 110    | 0.00%  | 0.001% |
| 39 | 5.652 | 1387 | 1393 | 1396 | rBV2 | 230    | 298    | 0.01%  | 0.003% |
| 40 | 5.746 | 1419 | 1422 | 1426 | rBV2 | 184    | 175    | 0.00%  | 0.002% |
| 41 | 5.797 | 1431 | 1438 | 1442 | rBV2 | 612    | 826    | 0.02%  | 0.007% |
| 42 | 5.890 | 1453 | 1467 | 1499 | rBV  | 239889 | 483103 | 13.46% | 4.256% |
| 43 | 6.096 | 1528 | 1531 | 1535 | rVB  | 173    | 102    | 0.00%  | 0.001% |
| 44 | 6.122 | 1536 | 1539 | 1541 | rBV  | 276    | 121    | 0.00%  | 0.001% |
| 45 | 6.273 | 1583 | 1586 | 1589 | rBV  | 198    | 176    | 0.00%  | 0.002% |
| 46 | 6.334 | 1589 | 1605 | 1637 | rBV  | 181085 | 369167 | 10.29% | 3.253% |
| 47 | 6.501 | 1655 | 1657 | 1660 | rVB  | 197    | 89     | 0.00%  | 0.001% |
| 48 | 6.643 | 1698 | 1701 | 1706 | rBV  | 123    | 85     | 0.00%  | 0.001% |
| 49 | 6.678 | 1706 | 1712 | 1716 | rVB  | 139    | 126    | 0.00%  | 0.001% |
| 50 | 6.726 | 1721 | 1727 | 1729 | rBV  | 331    | 354    | 0.01%  | 0.003% |
| 51 | 6.868 | 1765 | 1771 | 1773 | rBV4 | 426    | 414    | 0.01%  | 0.004% |
| 52 | 6.910 | 1781 | 1784 | 1786 | rBV  | 220    | 93     | 0.00%  | 0.001% |
| 53 | 6.983 | 1803 | 1807 | 1813 | rVB2 | 192    | 166    | 0.00%  | 0.001% |
| 54 | 7.090 | 1835 | 1840 | 1842 | rBV  | 107    | 104    | 0.00%  | 0.001% |
| 55 | 7.106 | 1843 | 1845 | 1848 | rVB  | 130    | 80     | 0.00%  | 0.001% |
| 56 | 7.231 | 1870 | 1884 | 1912 | rBV  | 97811  | 177542 | 4.95%  | 1.564% |
| 57 | 7.366 | 1918 | 1926 | 1928 | rBV3 | 335    | 341    | 0.01%  | 0.003% |
| 58 | 7.392 | 1928 | 1934 | 1946 | rVB4 | 2110   | 3479   | 0.10%  | 0.031% |
| 59 | 7.463 | 1946 | 1956 | 1958 | rBV3 | 486    | 596    | 0.02%  | 0.005% |
| 60 | 7.569 | 1975 | 1989 | 2020 | rVV  | 322096 | 577566 | 16.09% | 5.089% |
| 61 | 7.768 | 2048 | 2051 | 2057 | rBV  | 77     | 80     | 0.00%  | 0.001% |
| 62 | 7.852 | 2066 | 2077 | 2099 | rBV  | 71013  | 121139 | 3.38%  | 1.067% |
| 63 | 7.961 | 2107 | 2111 | 2113 | rBV2 | 307    | 226    | 0.01%  | 0.002% |
| 64 | 7.980 | 2113 | 2117 | 2122 | rVB4 | 344    | 387    | 0.01%  | 0.003% |
| 65 | 8.041 | 2134 | 2136 | 2139 | rVV  | 169    | 127    | 0.00%  | 0.001% |
| 66 | 8.057 | 2139 | 2141 | 2143 | rVV2 | 261    | 108    | 0.00%  | 0.001% |
| 67 | 8.077 | 2143 | 2147 | 2151 | rVB2 | 209    | 163    | 0.00%  | 0.001% |
| 68 | 8.180 | 2171 | 2179 | 2187 | rBV4 | 2873   | 6046   | 0.17%  | 0.053% |
| 69 | 8.311 | 2211 | 2220 | 2250 | rVB  | 261059 | 456094 | 12.71% | 4.018% |
| 70 | 8.562 | 2294 | 2298 | 2300 | rVB2 | 329    | 210    | 0.01%  | 0.002% |
| 71 | 8.581 | 2300 | 2304 | 2306 | rBV  | 277    | 213    | 0.01%  | 0.002% |

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 C0908

## Integration Parameters: LSCINT.P

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 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM100518WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |         |         |         |         |
|-----|--------|------|------|------|------|---------|---------|---------|---------|
| 72  | 8.736  | 2350 | 2352 | 2355 | rBV  | 152     | 81      | 0.00%   | 0.001%  |
| 73  | 8.909  | 2404 | 2406 | 2410 | rVB2 | 185     | 116     | 0.00%   | 0.001%  |
| 74  | 9.093  | 2449 | 2463 | 2467 | rBV  | 362271  | 602087  | 16.78%  | 5.305%  |
| 75  | 9.247  | 2507 | 2511 | 2517 | rBV3 | 338     | 318     | 0.01%   | 0.003%  |
| 76  | 9.344  | 2539 | 2541 | 2544 | rBV  | 184     | 109     | 0.00%   | 0.001%  |
| 77  | 9.482  | 2581 | 2584 | 2586 | rBV  | 151     | 104     | 0.00%   | 0.001%  |
| 78  | 9.495  | 2586 | 2588 | 2590 | rVV  | 170     | 101     | 0.00%   | 0.001%  |
| 79  | 9.514  | 2592 | 2594 | 2597 | rVV2 | 126     | 80      | 0.00%   | 0.001%  |
| 80  | 10.006 | 2744 | 2747 | 2749 | rBV  | 181     | 136     | 0.00%   | 0.001%  |
| 81  | 10.054 | 2759 | 2762 | 2764 | rBV  | 135     | 94      | 0.00%   | 0.001%  |
| 82  | 10.089 | 2770 | 2773 | 2778 | rVB  | 250     | 192     | 0.01%   | 0.002%  |
| 83  | 10.315 | 2837 | 2843 | 2850 | rBV3 | 948     | 1364    | 0.04%   | 0.012%  |
| 84  | 10.433 | 2867 | 2880 | 2899 | rBV  | 231870  | 371314  | 10.35%  | 3.272%  |
| 85  | 10.620 | 2924 | 2938 | 2951 | rVB3 | 4317    | 8769    | 0.24%   | 0.077%  |
| 86  | 10.858 | 3010 | 3012 | 3015 | rBV  | 189     | 83      | 0.00%   | 0.001%  |
| 87  | 10.980 | 3047 | 3050 | 3053 | rBV  | 223     | 130     | 0.00%   | 0.001%  |
| 88  | 11.012 | 3058 | 3060 | 3063 | rBV2 | 183     | 98      | 0.00%   | 0.001%  |
| 89  | 11.417 | 3175 | 3186 | 3196 | rBV  | 42772   | 67913   | 1.89%   | 0.598%  |
| 90  | 11.504 | 3196 | 3213 | 3238 | rVB2 | 507359  | 1305365 | 36.37%  | 11.501% |
| 91  | 11.697 | 3267 | 3273 | 3280 | rBV4 | 1079    | 1722    | 0.05%   | 0.015%  |
| 92  | 11.749 | 3281 | 3289 | 3300 | rVV2 | 7568    | 11897   | 0.33%   | 0.105%  |
| 93  | 11.880 | 3312 | 3330 | 3357 | rBV2 | 2032666 | 3588659 | 100.00% | 31.618% |
| 94  | 12.636 | 3560 | 3565 | 3573 | rVB3 | 1847    | 2390    | 0.07%   | 0.021%  |
| 95  | 12.861 | 3625 | 3635 | 3651 | rBV2 | 52831   | 89003   | 2.48%   | 0.784%  |
| 96  | 13.501 | 3823 | 3834 | 3851 | rBV  | 413769  | 653448  | 18.21%  | 5.757%  |
| 97  | 13.986 | 3974 | 3985 | 4002 | rBV  | 287370  | 446913  | 12.45%  | 3.938%  |
| 98  | 14.382 | 4100 | 4108 | 4119 | rBV3 | 18859   | 32499   | 0.91%   | 0.286%  |
| 99  | 15.073 | 4317 | 4323 | 4334 | rVB3 | 8818    | 13614   | 0.38%   | 0.120%  |
| 100 | 15.649 | 4493 | 4502 | 4526 | rVB2 | 56402   | 95494   | 2.66%   | 0.841%  |

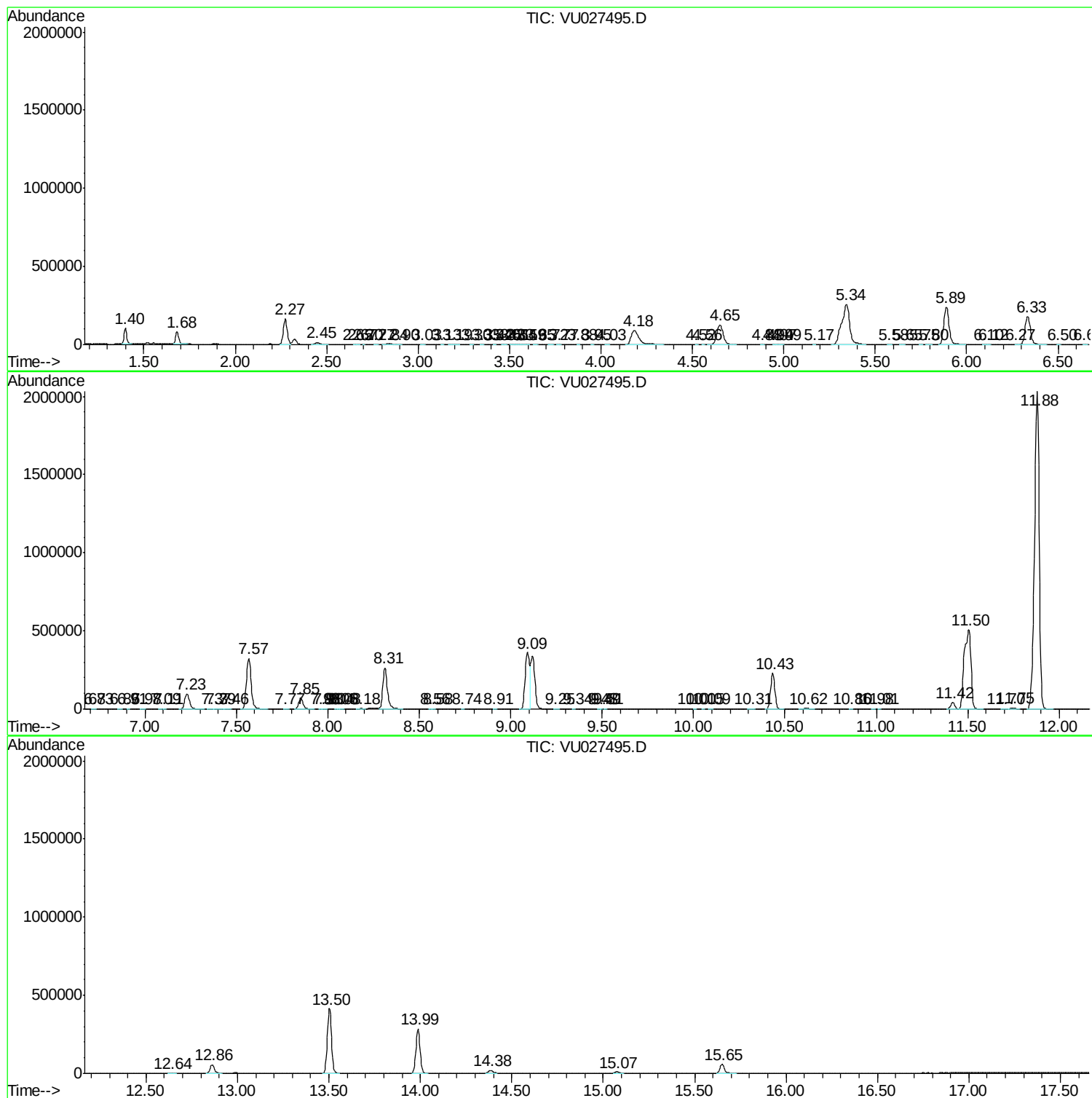
Sum of corrected areas: 11349899

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM100518WMA.M  
Quant Title : VOC Analysis

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



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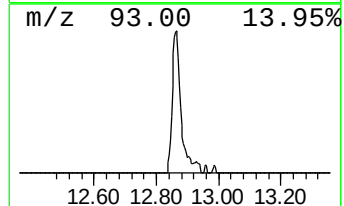
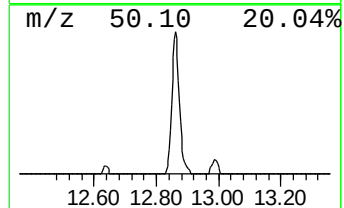
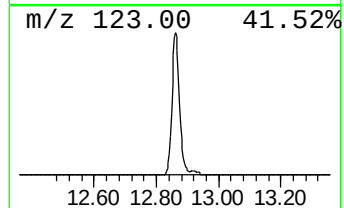
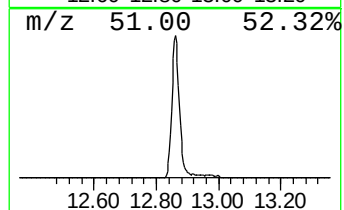
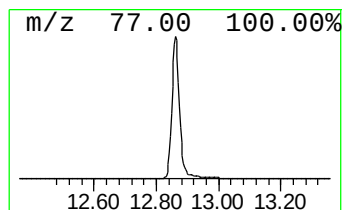
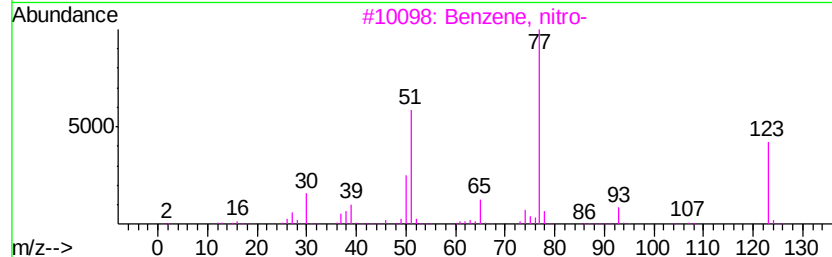
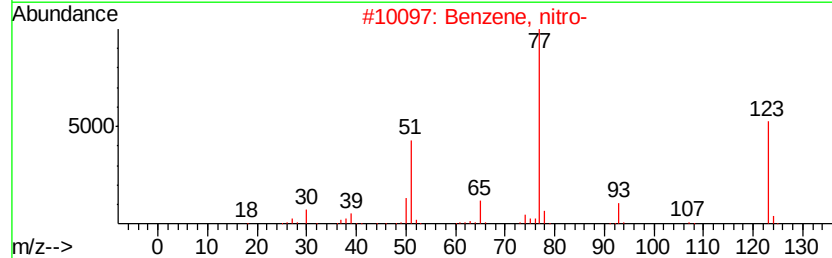
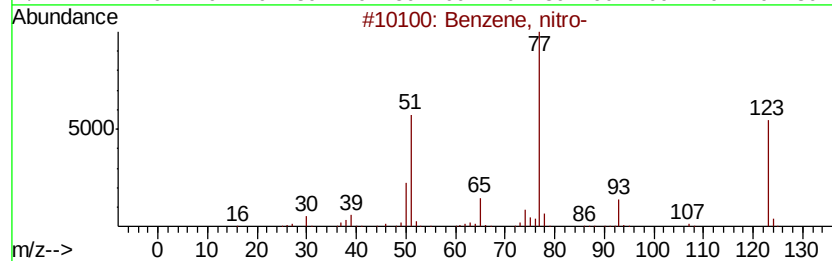
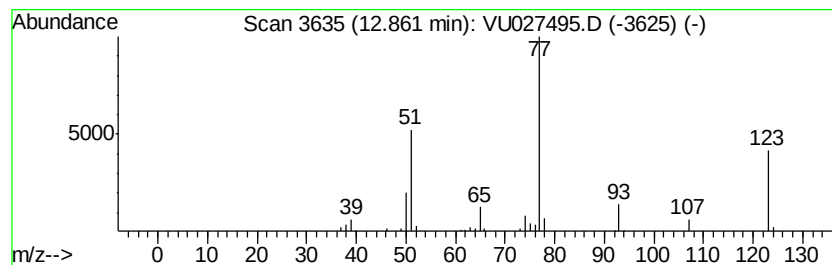
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM100518WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 2 Benzene, nitro- Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.86 | 3.41 ug/L | 89003 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Benzene, nitro-                     | 123 | C6H5NO2    | 000098-95-3 | 95   |
| 2    |    | Benzene, nitro-                     | 123 | C6H5NO2    | 000098-95-3 | 91   |
| 3    |    | Benzene, nitro-                     | 123 | C6H5NO2    | 000098-95-3 | 91   |
| 4    |    | Benzene, nitro-                     | 123 | C6H5NO2    | 000098-95-3 | 87   |
| 5    |    | Acetamide, 2-phenoxy-N-(4-benzoy... | 346 | C21H18N2O3 | 312755-44-5 | 25   |



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Quant Title : VOC Analysis

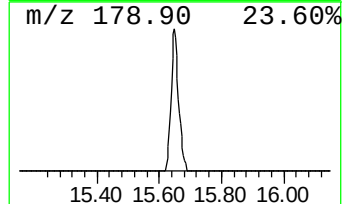
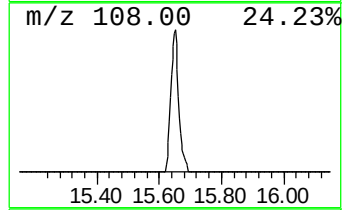
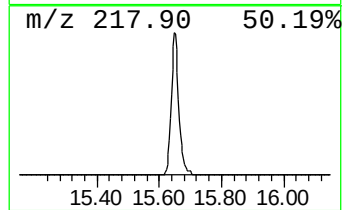
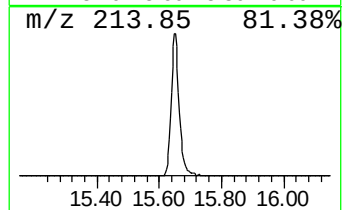
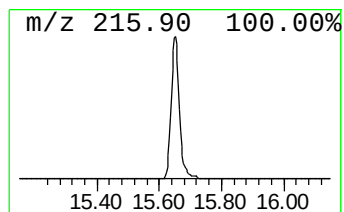
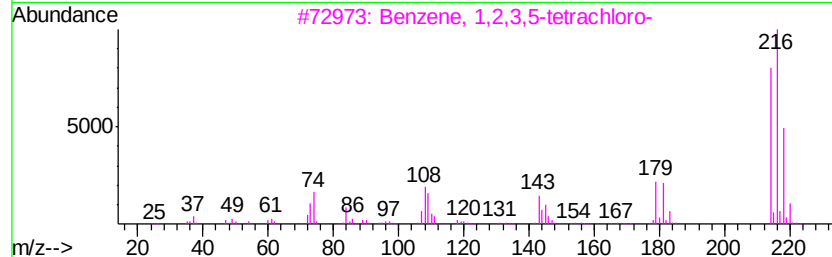
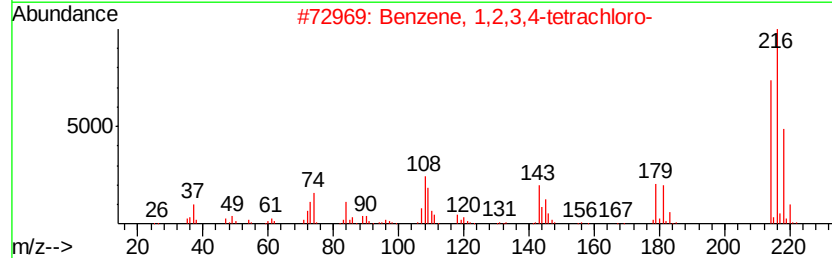
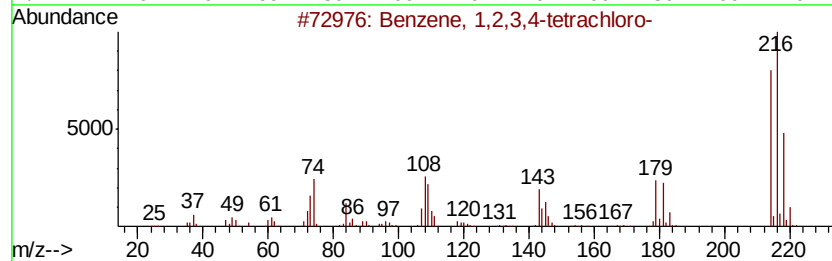
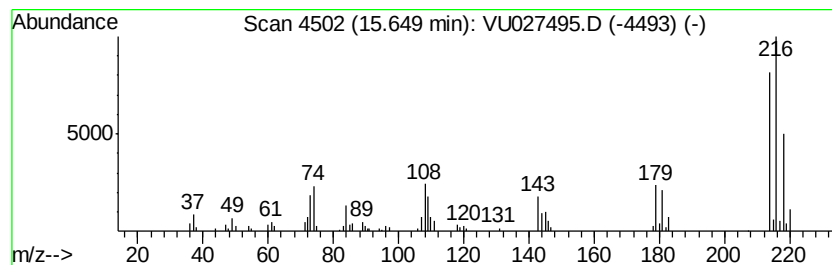
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Benzene, 1,2,3,4-tetrachloro- Concentration Rank 2

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 15.65 | 3.66 ug/L | 95494 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3,4-tetrachloro- | 214 | C6H2Cl4 | 000634-66-2 | 99   |
| 2    |    | Benzene, 1,2,3,4-tetrachloro- | 214 | C6H2Cl4 | 000634-66-2 | 99   |
| 3    |    | Benzene, 1,2,3,5-tetrachloro- | 214 | C6H2Cl4 | 000634-90-2 | 98   |
| 4    |    | Benzene, 1,2,4,5-tetrachloro- | 214 | C6H2Cl4 | 000095-94-3 | 98   |
| 5    |    | Benzene, 1,2,3,4-tetrachloro- | 214 | C6H2Cl4 | 000634-66-2 | 98   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU100818\  
Data File : VU027495.D  
Acq On : 08 Oct 2018 13:19  
Operator : MD/SY  
Sample : J5250-01  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0908

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM100518WMA.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 |
| Benzene, nitro-      | 12.86 | 3.4     | ug/L  | 89003    | 3                     | 11.48 | 1305370 | 50.0 |
| Benzene, 1,2,3,4-... | 15.65 | 3.7     | ug/L  | 95494    | 3                     | 11.48 | 1305370 | 50.0 |