

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032719\  
 Data File : VU030496.D  
 Acq On : 27 Mar 2019 20:18  
 Operator : JC/SP  
 Sample : K2063-10DL 500X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB6S3DL

## 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\SOMULM032319WMA.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      | 1.183    | 24         | 29       | 37        | rBV2  | 12626       | 11931      | 0.46%        | 0.066%     |
| 2      | 1.399    | 89         | 96       | 109       | rBV   | 256634      | 256586     | 9.87%        | 1.417%     |
| 3      | 1.672    | 174        | 181      | 195       | rVB   | 182546      | 243556     | 9.37%        | 1.345%     |
| 4      | 1.752    | 201        | 206      | 213       | rVB3  | 21607       | 26989      | 1.04%        | 0.149%     |
| 5      | 2.270    | 356        | 367      | 379       | rBV   | 379752      | 583506     | 22.45%       | 3.223%     |
| 6      | 2.521    | 441        | 445      | 449       | rVB   | 2093        | 1529       | 0.06%        | 0.008%     |
| 7      | 2.640    | 474        | 482      | 485       | rBV   | 2026        | 3076       | 0.12%        | 0.017%     |
| 8      | 2.685    | 488        | 496      | 497       | rBV4  | 3201        | 3659       | 0.14%        | 0.020%     |
| 9      | 2.788    | 522        | 528      | 543       | rVB6  | 8220        | 19465      | 0.75%        | 0.108%     |
| 10     | 2.900    | 560        | 563      | 568       | rVB   | 1578        | 1372       | 0.05%        | 0.008%     |
| 11     | 2.984    | 585        | 589      | 591       | rBV   | 2675        | 2254       | 0.09%        | 0.012%     |
| 12     | 3.064    | 609        | 614      | 618       | rBV   | 1503        | 1596       | 0.06%        | 0.009%     |
| 13     | 3.087    | 618        | 621      | 626       | rVB   | 1699        | 1459       | 0.06%        | 0.008%     |
| 14     | 3.260    | 668        | 675      | 678       | rBV   | 1881        | 2652       | 0.10%        | 0.015%     |
| 15     | 3.296    | 683        | 686      | 693       | rVV2  | 2796        | 3250       | 0.13%        | 0.018%     |
| 16     | 3.354    | 700        | 704      | 709       | rBV   | 1805        | 2229       | 0.09%        | 0.012%     |
| 17     | 3.691    | 803        | 809      | 813       | rBV   | 1882        | 2375       | 0.09%        | 0.013%     |
| 18     | 3.801    | 839        | 843      | 847       | rVB   | 2143        | 1902       | 0.07%        | 0.011%     |
| 19     | 3.830    | 847        | 852      | 855       | rBV   | 1797        | 1974       | 0.08%        | 0.011%     |
| 20     | 3.881    | 864        | 868      | 871       | rBV2  | 1667        | 1337       | 0.05%        | 0.007%     |
| 21     | 3.961    | 886        | 893      | 896       | rBV   | 2025        | 2163       | 0.08%        | 0.012%     |
| 22     | 4.096    | 921        | 935      | 948       | rVB4  | 12338       | 31246      | 1.20%        | 0.173%     |
| 23     | 4.174    | 948        | 959      | 987       | rBV   | 195275      | 507326     | 19.52%       | 2.803%     |
| 24     | 4.395    | 1022       | 1028     | 1032      | rBV2  | 1509        | 2031       | 0.08%        | 0.011%     |
| 25     | 4.440    | 1039       | 1042     | 1049      | rVB2  | 2218        | 2132       | 0.08%        | 0.012%     |
| 26     | 4.514    | 1061       | 1065     | 1069      | rBV   | 3056        | 2530       | 0.10%        | 0.014%     |
| 27     | 4.643    | 1087       | 1105     | 1134      | rBV   | 283771      | 687930     | 26.47%       | 3.800%     |
| 28     | 4.977    | 1206       | 1209     | 1211      | rBV   | 1932        | 1358       | 0.05%        | 0.008%     |
| 29     | 5.045    | 1224       | 1230     | 1233      | rBV   | 2127        | 1587       | 0.06%        | 0.009%     |
| 30     | 5.338    | 1298       | 1321     | 1331      | rBV2  | 590993      | 1772070    | 68.18%       | 9.789%     |
| 31     | 5.723    | 1435       | 1441     | 1444      | rBV   | 1810        | 1632       | 0.06%        | 0.009%     |
| 32     | 5.884    | 1476       | 1491     | 1523      | rBV   | 521193      | 1062658    | 40.89%       | 5.870%     |
| 33     | 6.125    | 1563       | 1566     | 1572      | rVB   | 1438        | 1391       | 0.05%        | 0.008%     |
| 34     | 6.164    | 1574       | 1578     | 1580      | rBV   | 1809        | 1349       | 0.05%        | 0.007%     |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 6.215  | 1589 | 1594 | 1599 | rBV2 | 1356    | 1448    | 0.06%   | 0.008%  |
| 36 | 6.244  | 1599 | 1603 | 1606 | rBV  | 1480    | 1584    | 0.06%   | 0.009%  |
| 37 | 6.328  | 1613 | 1629 | 1650 | rBV  | 402490  | 826110  | 31.78%  | 4.564%  |
| 38 | 6.530  | 1688 | 1692 | 1697 | rBV  | 1430    | 1564    | 0.06%   | 0.009%  |
| 39 | 6.826  | 1780 | 1784 | 1790 | rVV  | 1585    | 2079    | 0.08%   | 0.011%  |
| 40 | 6.907  | 1803 | 1809 | 1812 | rBV  | 2402    | 2737    | 0.11%   | 0.015%  |
| 41 | 7.225  | 1896 | 1908 | 1932 | rBV  | 209735  | 396966  | 15.27%  | 2.193%  |
| 42 | 7.373  | 1949 | 1954 | 1961 | rVB4 | 3084    | 4914    | 0.19%   | 0.027%  |
| 43 | 7.563  | 2000 | 2013 | 2024 | rBV  | 734491  | 1284458 | 49.42%  | 7.096%  |
| 44 | 7.633  | 2024 | 2035 | 2059 | rVB  | 1498775 | 2599122 | 100.00% | 14.358% |
| 45 | 7.845  | 2091 | 2101 | 2120 | rBV  | 150581  | 263002  | 10.12%  | 1.453%  |
| 46 | 7.948  | 2131 | 2133 | 2143 | rVB3 | 2946    | 3373    | 0.13%   | 0.019%  |
| 47 | 8.125  | 2184 | 2188 | 2196 | rBV3 | 1206    | 1549    | 0.06%   | 0.009%  |
| 48 | 8.186  | 2202 | 2207 | 2212 | rBV2 | 1470    | 1817    | 0.07%   | 0.010%  |
| 49 | 8.247  | 2224 | 2226 | 2231 | rBV2 | 1626    | 1347    | 0.05%   | 0.007%  |
| 50 | 8.308  | 2234 | 2245 | 2277 | rBV  | 611191  | 1124845 | 43.28%  | 6.214%  |
| 51 | 8.591  | 2327 | 2333 | 2340 | rVB2 | 2214    | 3419    | 0.13%   | 0.019%  |
| 52 | 8.675  | 2354 | 2359 | 2360 | rBV  | 1870    | 1567    | 0.06%   | 0.009%  |
| 53 | 8.788  | 2392 | 2394 | 2399 | rVB  | 2012    | 1620    | 0.06%   | 0.009%  |
| 54 | 8.829  | 2404 | 2407 | 2412 | rBV  | 1927    | 1973    | 0.08%   | 0.011%  |
| 55 | 9.087  | 2475 | 2487 | 2521 | rBV  | 757310  | 1288106 | 49.56%  | 7.116%  |
| 56 | 9.247  | 2526 | 2537 | 2557 | rVB  | 155347  | 258357  | 9.94%   | 1.427%  |
| 57 | 9.370  | 2563 | 2575 | 2597 | rBV  | 496576  | 852605  | 32.80%  | 4.710%  |
| 58 | 9.775  | 2691 | 2701 | 2732 | rVB  | 247188  | 422308  | 16.25%  | 2.333%  |
| 59 | 10.170 | 2814 | 2824 | 2829 | rVV4 | 5465    | 7401    | 0.28%   | 0.041%  |
| 60 | 10.334 | 2872 | 2875 | 2881 | rVB  | 1859    | 1724    | 0.07%   | 0.010%  |
| 61 | 10.427 | 2892 | 2904 | 2928 | rBV  | 547157  | 885369  | 34.06%  | 4.891%  |
| 62 | 10.585 | 2942 | 2953 | 2963 | rBV2 | 12569   | 23397   | 0.90%   | 0.129%  |
| 63 | 10.643 | 2967 | 2971 | 2972 | rVV2 | 1655    | 1436    | 0.06%   | 0.008%  |
| 64 | 10.678 | 2973 | 2982 | 3001 | rVV2 | 47943   | 107780  | 4.15%   | 0.595%  |
| 65 | 10.771 | 3003 | 3011 | 3024 | rVB4 | 21193   | 33396   | 1.28%   | 0.184%  |
| 66 | 10.858 | 3035 | 3038 | 3042 | rVB  | 1790    | 1342    | 0.05%   | 0.007%  |
| 67 | 10.887 | 3042 | 3047 | 3050 | rBV  | 1803    | 1427    | 0.05%   | 0.008%  |
| 68 | 10.906 | 3050 | 3053 | 3056 | rBV2 | 2347    | 2155    | 0.08%   | 0.012%  |
| 69 | 10.971 | 3061 | 3073 | 3084 | rBV2 | 21148   | 35820   | 1.38%   | 0.198%  |
| 70 | 11.148 | 3118 | 3128 | 3144 | rVB  | 77077   | 122604  | 4.72%   | 0.677%  |
| 71 | 11.234 | 3152 | 3155 | 3158 | rVB  | 1988    | 1381    | 0.05%   | 0.008%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 11.479 | 3220 | 3231 | 3250 | rBV  | 650494 | 1064491 | 40.96% | 5.880% |
| 73  | 11.569 | 3252 | 3259 | 3270 | rVB  | 24345  | 38993   | 1.50%  | 0.215% |
| 74  | 11.765 | 3311 | 3320 | 3332 | rVV3 | 20927  | 35767   | 1.38%  | 0.198% |
| 75  | 11.855 | 3337 | 3348 | 3366 | rBV  | 630294 | 1067665 | 41.08% | 5.898% |
| 76  | 12.250 | 3466 | 3471 | 3477 | rBV4 | 3261   | 4366    | 0.17%  | 0.024% |
| 77  | 12.350 | 3495 | 3502 | 3509 | rBV4 | 1757   | 2702    | 0.10%  | 0.015% |
| 78  | 12.469 | 3536 | 3539 | 3546 | rBV2 | 1208   | 1329    | 0.05%  | 0.007% |
| 79  | 12.562 | 3565 | 3568 | 3571 | rVB  | 2141   | 1428    | 0.05%  | 0.008% |
| 80  | 12.656 | 3588 | 3597 | 3602 | rBV2 | 2956   | 4304    | 0.17%  | 0.024% |
| 81  | 12.704 | 3610 | 3612 | 3618 | rVB6 | 2195   | 1699    | 0.07%  | 0.009% |
| 82  | 12.781 | 3630 | 3636 | 3639 | rBV2 | 1773   | 2311    | 0.09%  | 0.013% |
| 83  | 13.077 | 3723 | 3728 | 3730 | rBV2 | 2014   | 1873    | 0.07%  | 0.010% |
| 84  | 13.119 | 3735 | 3741 | 3743 | rBV  | 3827   | 3711    | 0.14%  | 0.021% |
| 85  | 13.186 | 3756 | 3762 | 3765 | rBV2 | 1309   | 1419    | 0.05%  | 0.008% |
| 86  | 13.270 | 3784 | 3788 | 3793 | rBV2 | 1516   | 1703    | 0.07%  | 0.009% |
| 87  | 13.302 | 3793 | 3798 | 3802 | rVB2 | 1982   | 1802    | 0.07%  | 0.010% |
| 88  | 13.517 | 3858 | 3865 | 3868 | rBV4 | 2931   | 3920    | 0.15%  | 0.022% |
| 89  | 13.762 | 3923 | 3941 | 3946 | rBV4 | 7450   | 18330   | 0.71%  | 0.101% |
| 90  | 13.967 | 4000 | 4005 | 4012 | rVB2 | 1743   | 1972    | 0.08%  | 0.011% |
| 91  | 14.000 | 4012 | 4015 | 4021 | rBV  | 2013   | 2316    | 0.09%  | 0.013% |
| 92  | 14.466 | 4154 | 4160 | 4165 | rBV  | 2103   | 3018    | 0.12%  | 0.017% |
| 93  | 14.662 | 4217 | 4221 | 4225 | rBV  | 2533   | 2034    | 0.08%  | 0.011% |
| 94  | 14.929 | 4298 | 4304 | 4306 | rBV2 | 1576   | 1785    | 0.07%  | 0.010% |
| 95  | 15.096 | 4351 | 4356 | 4358 | rBV  | 1801   | 1837    | 0.07%  | 0.010% |
| 96  | 15.128 | 4363 | 4366 | 4370 | rBV  | 1392   | 1485    | 0.06%  | 0.008% |
| 97  | 15.498 | 4478 | 4481 | 4485 | rBV2 | 2159   | 1740    | 0.07%  | 0.010% |
| 98  | 15.553 | 4495 | 4498 | 4504 | rVB2 | 1978   | 1707    | 0.07%  | 0.009% |
| 99  | 16.247 | 4711 | 4714 | 4720 | rBV2 | 2277   | 2069    | 0.08%  | 0.011% |
| 100 | 16.456 | 4775 | 4779 | 4781 | rBV  | 2639   | 2281    | 0.09%  | 0.013% |

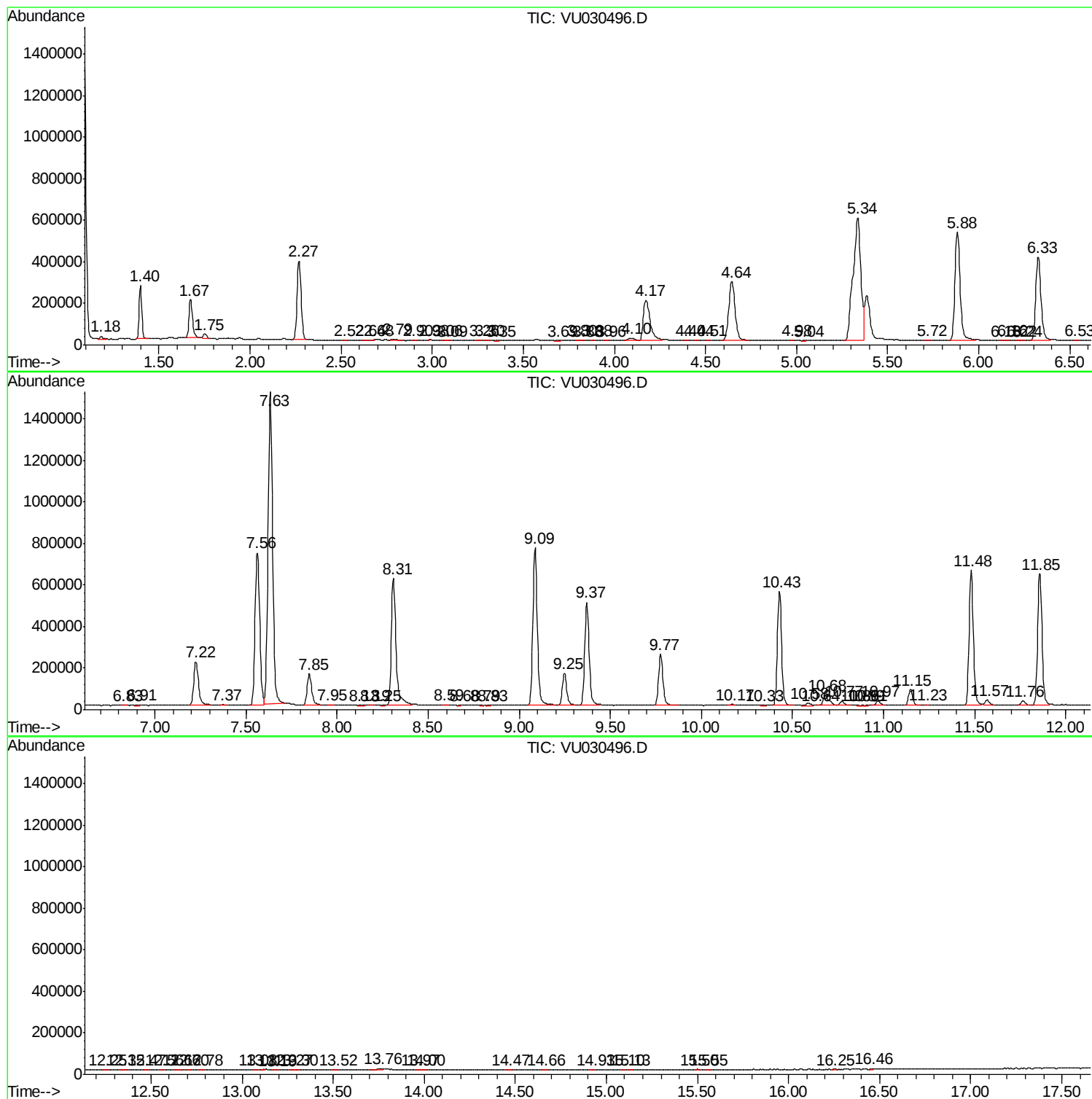
Sum of corrected areas: 18102259

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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



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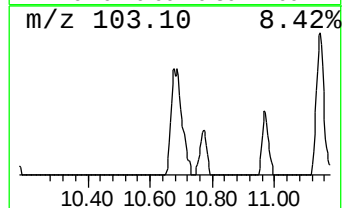
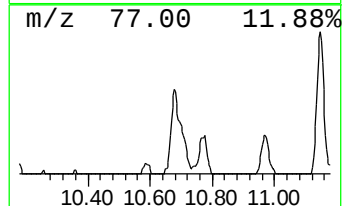
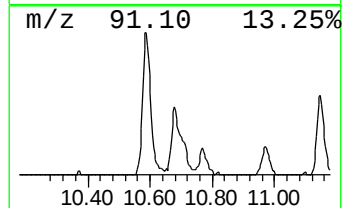
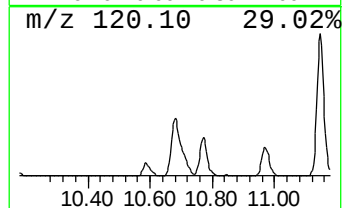
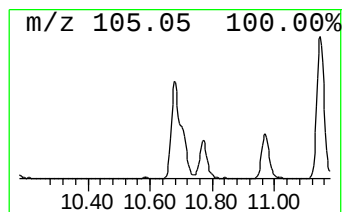
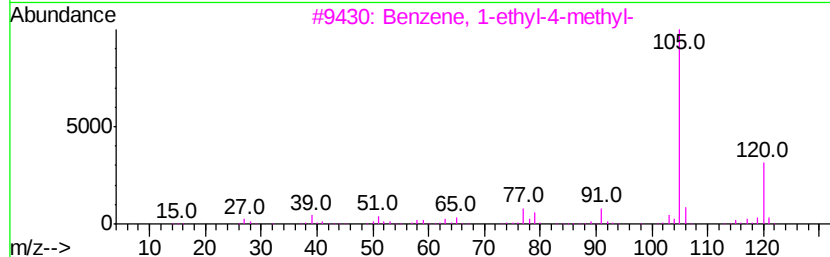
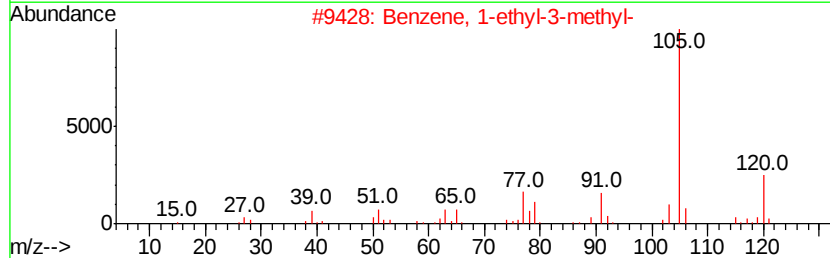
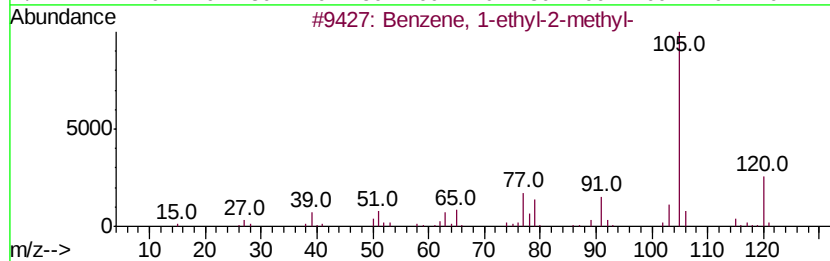
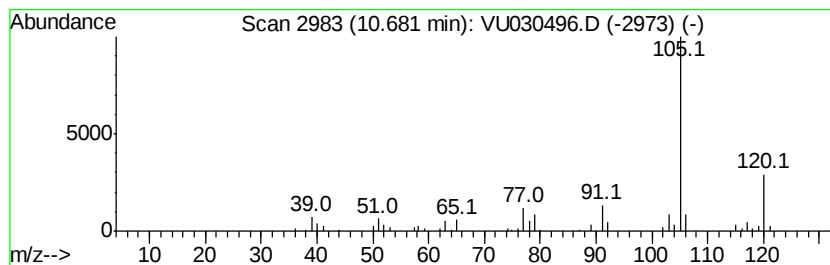
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 2 Benzene, 1-ethyl-2-methyl- Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 10.68 | 5.06 ug/L | 107780 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 94   |
| 2    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 94   |
| 3    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |
| 4    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 91   |
| 5    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 91   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Benzene, 1-ethyl-... | 10.68 | 5.1     | ug/L  | 107780   | 3                     | 11.48 | 1064490 | 50.0 |