

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU103119\  
 Data File : VU035562.D  
 Acq On : 30 Oct 2019 15:17  
 Operator : JC/SP  
 Sample : VIBLK44  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VIBLK44

## 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\SOMULM103119WMA.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      | 1.617    | 79         | 86       | 104       | rBV   | 399691      | 434232     | 16.79%       | 2.198%     |
| 2      | 1.935    | 177        | 185      | 205       | rVB   | 304588      | 408966     | 15.81%       | 2.070%     |
| 3      | 2.597    | 379        | 391      | 409       | rBV   | 550105      | 915327     | 35.39%       | 4.633%     |
| 4      | 2.826    | 453        | 462      | 477       | rVB   | 19879       | 35096      | 1.36%        | 0.178%     |
| 5      | 2.932    | 492        | 495      | 497       | rBV2  | 872         | 501        | 0.02%        | 0.003%     |
| 6      | 3.089    | 532        | 544      | 555       | rVB5  | 5711        | 11869      | 0.46%        | 0.060%     |
| 7      | 3.131    | 555        | 557      | 560       | rBV2  | 680         | 369        | 0.01%        | 0.002%     |
| 8      | 3.240    | 579        | 591      | 606       | rVB2  | 12801       | 30019      | 1.16%        | 0.152%     |
| 9      | 3.305    | 606        | 611      | 612       | rBV3  | 570         | 468        | 0.02%        | 0.002%     |
| 10     | 3.398    | 628        | 640      | 656       | rBV3  | 8897        | 18176      | 0.70%        | 0.092%     |
| 11     | 3.482    | 663        | 666      | 669       | rBV2  | 499         | 458        | 0.02%        | 0.002%     |
| 12     | 3.584    | 695        | 698      | 702       | rVB2  | 644         | 471        | 0.02%        | 0.002%     |
| 13     | 3.732    | 741        | 744      | 745       | rBV3  | 779         | 376        | 0.01%        | 0.002%     |
| 14     | 3.768    | 751        | 755      | 757       | rBV3  | 635         | 415        | 0.02%        | 0.002%     |
| 15     | 3.874    | 784        | 788      | 794       | rVB3  | 422         | 365        | 0.01%        | 0.002%     |
| 16     | 3.916    | 794        | 801      | 804       | rBV5  | 977         | 1254       | 0.05%        | 0.006%     |
| 17     | 3.932    | 804        | 806      | 814       | rVB3  | 1223        | 1106       | 0.04%        | 0.006%     |
| 18     | 3.967    | 814        | 817      | 823       | rVB4  | 806         | 649        | 0.03%        | 0.003%     |
| 19     | 4.128    | 863        | 867      | 869       | rBV   | 1008        | 775        | 0.03%        | 0.004%     |
| 20     | 4.697    | 1026       | 1044     | 1066      | rBV   | 226734      | 574109     | 22.20%       | 2.906%     |
| 21     | 5.009    | 1138       | 1141     | 1142      | rBV3  | 661         | 375        | 0.01%        | 0.002%     |
| 22     | 5.025    | 1143       | 1146     | 1156      | rVB7  | 2696        | 4194       | 0.16%        | 0.021%     |
| 23     | 5.118    | 1159       | 1175     | 1199      | rBV2  | 444281      | 987489     | 38.18%       | 4.998%     |
| 24     | 5.285    | 1223       | 1227     | 1235      | rVB7  | 1204        | 1300       | 0.05%        | 0.007%     |
| 25     | 5.430    | 1267       | 1272     | 1286      | rVB9  | 4498        | 8669       | 0.34%        | 0.044%     |
| 26     | 5.572    | 1305       | 1316     | 1318      | rBV6  | 1893        | 2483       | 0.10%        | 0.013%     |
| 27     | 5.678    | 1345       | 1349     | 1354      | rVB3  | 540         | 417        | 0.02%        | 0.002%     |
| 28     | 5.774    | 1357       | 1379     | 1415      | rBV2  | 979547      | 2586524    | 100.00%      | 13.092%    |
| 29     | 6.295    | 1526       | 1541     | 1583      | rBV   | 810804      | 1590190    | 61.48%       | 8.049%     |
| 30     | 6.584    | 1621       | 1631     | 1644      | rVB8  | 11134       | 23072      | 0.89%        | 0.117%     |
| 31     | 6.735    | 1663       | 1678     | 1694      | rBV   | 575630      | 1138600    | 44.02%       | 5.763%     |
| 32     | 7.047    | 1772       | 1775     | 1784      | rVB7  | 1573        | 1648       | 0.06%        | 0.008%     |
| 33     | 7.086    | 1784       | 1787     | 1791      | rVB3  | 517         | 356        | 0.01%        | 0.002%     |
| 34     | 7.118    | 1791       | 1797     | 1799      | rBV3  | 725         | 737        | 0.03%        | 0.004%     |

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 Title : VOC Analysis

|    |        |      |      |      |       |         |         |        |         |
|----|--------|------|------|------|-------|---------|---------|--------|---------|
| 35 | 7.141  | 1801 | 1804 | 1806 | rBV3  | 1064    | 758     | 0.03%  | 0.004%  |
| 36 | 7.221  | 1823 | 1829 | 1843 | rBV6  | 1932    | 3664    | 0.14%  | 0.019%  |
| 37 | 7.430  | 1891 | 1894 | 1898 | rVB3  | 489     | 400     | 0.02%  | 0.002%  |
| 38 | 7.607  | 1934 | 1949 | 1975 | rBV   | 314628  | 592286  | 22.90% | 2.998%  |
| 39 | 7.845  | 2013 | 2023 | 2037 | rBV2  | 25789   | 48039   | 1.86%  | 0.243%  |
| 40 | 7.935  | 2038 | 2051 | 2070 | rBV   | 1167452 | 2075422 | 80.24% | 10.505% |
| 41 | 8.218  | 2124 | 2139 | 2165 | rBV   | 209372  | 406582  | 15.72% | 2.058%  |
| 42 | 8.436  | 2201 | 2207 | 2221 | rVB10 | 4659    | 8103    | 0.31%  | 0.041%  |
| 43 | 8.497  | 2221 | 2226 | 2230 | rBV3  | 1049    | 985     | 0.04%  | 0.005%  |
| 44 | 8.549  | 2238 | 2242 | 2245 | rBV2  | 507     | 453     | 0.02%  | 0.002%  |
| 45 | 8.587  | 2245 | 2254 | 2263 | rVB2  | 9687    | 16231   | 0.63%  | 0.082%  |
| 46 | 8.623  | 2263 | 2265 | 2270 | rBV3  | 395     | 360     | 0.01%  | 0.002%  |
| 47 | 8.684  | 2270 | 2284 | 2330 | rBV2  | 370735  | 1232673 | 47.66% | 6.239%  |
| 48 | 8.964  | 2361 | 2371 | 2375 | rBV3  | 3614    | 5302    | 0.20%  | 0.027%  |
| 49 | 9.034  | 2391 | 2393 | 2398 | rBV5  | 875     | 633     | 0.02%  | 0.003%  |
| 50 | 9.140  | 2423 | 2426 | 2430 | rVB3  | 659     | 489     | 0.02%  | 0.002%  |
| 51 | 9.173  | 2434 | 2436 | 2439 | rVV2  | 494     | 357     | 0.01%  | 0.002%  |
| 52 | 9.195  | 2441 | 2443 | 2448 | rVB2  | 781     | 567     | 0.02%  | 0.003%  |
| 53 | 9.218  | 2448 | 2450 | 2454 | rVB4  | 649     | 354     | 0.01%  | 0.002%  |
| 54 | 9.311  | 2476 | 2479 | 2482 | rBV3  | 478     | 358     | 0.01%  | 0.002%  |
| 55 | 9.388  | 2498 | 2503 | 2507 | rVB4  | 735     | 603     | 0.02%  | 0.003%  |
| 56 | 9.449  | 2507 | 2522 | 2560 | rBV   | 1008459 | 1912446 | 73.94% | 9.680%  |
| 57 | 9.604  | 2560 | 2570 | 2578 | rBV   | 14886   | 24799   | 0.96%  | 0.126%  |
| 58 | 9.726  | 2597 | 2608 | 2621 | rBV   | 14544   | 26356   | 1.02%  | 0.133%  |
| 59 | 9.822  | 2631 | 2638 | 2639 | rVV4  | 372     | 404     | 0.02%  | 0.002%  |
| 60 | 9.874  | 2651 | 2654 | 2659 | rVB3  | 604     | 448     | 0.02%  | 0.002%  |
| 61 | 9.999  | 2687 | 2693 | 2696 | rVB3  | 454     | 489     | 0.02%  | 0.002%  |
| 62 | 10.021 | 2696 | 2700 | 2702 | rBV2  | 519     | 391     | 0.02%  | 0.002%  |
| 63 | 10.044 | 2702 | 2707 | 2709 | rVV3  | 494     | 452     | 0.02%  | 0.002%  |
| 64 | 10.144 | 2723 | 2738 | 2759 | rVB5  | 21473   | 52067   | 2.01%  | 0.264%  |
| 65 | 10.324 | 2785 | 2794 | 2805 | rBV3  | 4823    | 7465    | 0.29%  | 0.038%  |
| 66 | 10.513 | 2843 | 2853 | 2865 | rBV2  | 18187   | 29388   | 1.14%  | 0.149%  |
| 67 | 10.665 | 2897 | 2900 | 2905 | rBV3  | 445     | 358     | 0.01%  | 0.002%  |
| 68 | 10.690 | 2905 | 2908 | 2914 | rVB4  | 722     | 600     | 0.02%  | 0.003%  |
| 69 | 10.787 | 2925 | 2938 | 2954 | rBV   | 713693  | 1255872 | 48.55% | 6.357%  |
| 70 | 10.931 | 2980 | 2983 | 2988 | rVB4  | 792     | 732     | 0.03%  | 0.004%  |
| 71 | 11.115 | 3028 | 3040 | 3055 | rBV2  | 19255   | 31639   | 1.22%  | 0.160%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM103119WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 11.439 | 3136 | 3141 | 3148 | rVB6 | 1194   | 1218    | 0.05%  | 0.006% |
| 73  | 11.497 | 3148 | 3159 | 3173 | rVV2 | 22622  | 39134   | 1.51%  | 0.198% |
| 74  | 11.774 | 3234 | 3245 | 3254 | rBV2 | 30301  | 52157   | 2.02%  | 0.264% |
| 75  | 11.841 | 3254 | 3266 | 3292 | rVB  | 664981 | 1247769 | 48.24% | 6.316% |
| 76  | 11.944 | 3294 | 3298 | 3300 | rBV2 | 701    | 537     | 0.02%  | 0.003% |
| 77  | 12.031 | 3322 | 3325 | 3328 | rBV2 | 589    | 362     | 0.01%  | 0.002% |
| 78  | 12.076 | 3336 | 3339 | 3343 | rBV2 | 398    | 407     | 0.02%  | 0.002% |
| 79  | 12.140 | 3353 | 3359 | 3363 | rBV4 | 779    | 749     | 0.03%  | 0.004% |
| 80  | 12.173 | 3366 | 3369 | 3371 | rVV2 | 725    | 388     | 0.02%  | 0.002% |
| 81  | 12.221 | 3371 | 3384 | 3406 | rVV  | 788689 | 1392048 | 53.82% | 7.046% |
| 82  | 12.327 | 3415 | 3417 | 3422 | rVB3 | 724    | 459     | 0.02%  | 0.002% |
| 83  | 12.353 | 3422 | 3425 | 3428 | rBV3 | 509    | 368     | 0.01%  | 0.002% |
| 84  | 12.375 | 3429 | 3432 | 3436 | rVV2 | 629    | 382     | 0.01%  | 0.002% |
| 85  | 12.526 | 3474 | 3479 | 3480 | rBV3 | 733    | 464     | 0.02%  | 0.002% |
| 86  | 12.674 | 3523 | 3525 | 3529 | rVB2 | 610    | 381     | 0.01%  | 0.002% |
| 87  | 12.880 | 3586 | 3589 | 3592 | rBV3 | 676    | 538     | 0.02%  | 0.003% |
| 88  | 12.915 | 3598 | 3600 | 3605 | rBV3 | 426    | 405     | 0.02%  | 0.002% |
| 89  | 12.967 | 3612 | 3616 | 3618 | rBV2 | 637    | 462     | 0.02%  | 0.002% |
| 90  | 13.025 | 3624 | 3634 | 3644 | rBV3 | 13529  | 22406   | 0.87%  | 0.113% |
| 91  | 13.124 | 3662 | 3665 | 3668 | rBV3 | 471    | 365     | 0.01%  | 0.002% |
| 92  | 13.243 | 3692 | 3702 | 3713 | rVB2 | 49448  | 75751   | 2.93%  | 0.383% |
| 93  | 13.336 | 3729 | 3731 | 3735 | rBV2 | 662    | 420     | 0.02%  | 0.002% |
| 94  | 13.388 | 3744 | 3747 | 3748 | rBV2 | 751    | 456     | 0.02%  | 0.002% |
| 95  | 13.648 | 3824 | 3828 | 3830 | rBV2 | 616    | 508     | 0.02%  | 0.003% |
| 96  | 13.668 | 3832 | 3834 | 3841 | rVB4 | 1092   | 728     | 0.03%  | 0.004% |
| 97  | 13.864 | 3884 | 3895 | 3908 | rVB  | 67965  | 105655  | 4.08%  | 0.535% |
| 98  | 13.980 | 3929 | 3931 | 3933 | rBV2 | 737    | 386     | 0.01%  | 0.002% |
| 99  | 14.111 | 3961 | 3972 | 3986 | rVB  | 93924  | 150614  | 5.82%  | 0.762% |
| 100 | 14.352 | 4036 | 4047 | 4060 | rBV  | 91217  | 142151  | 5.50%  | 0.719% |

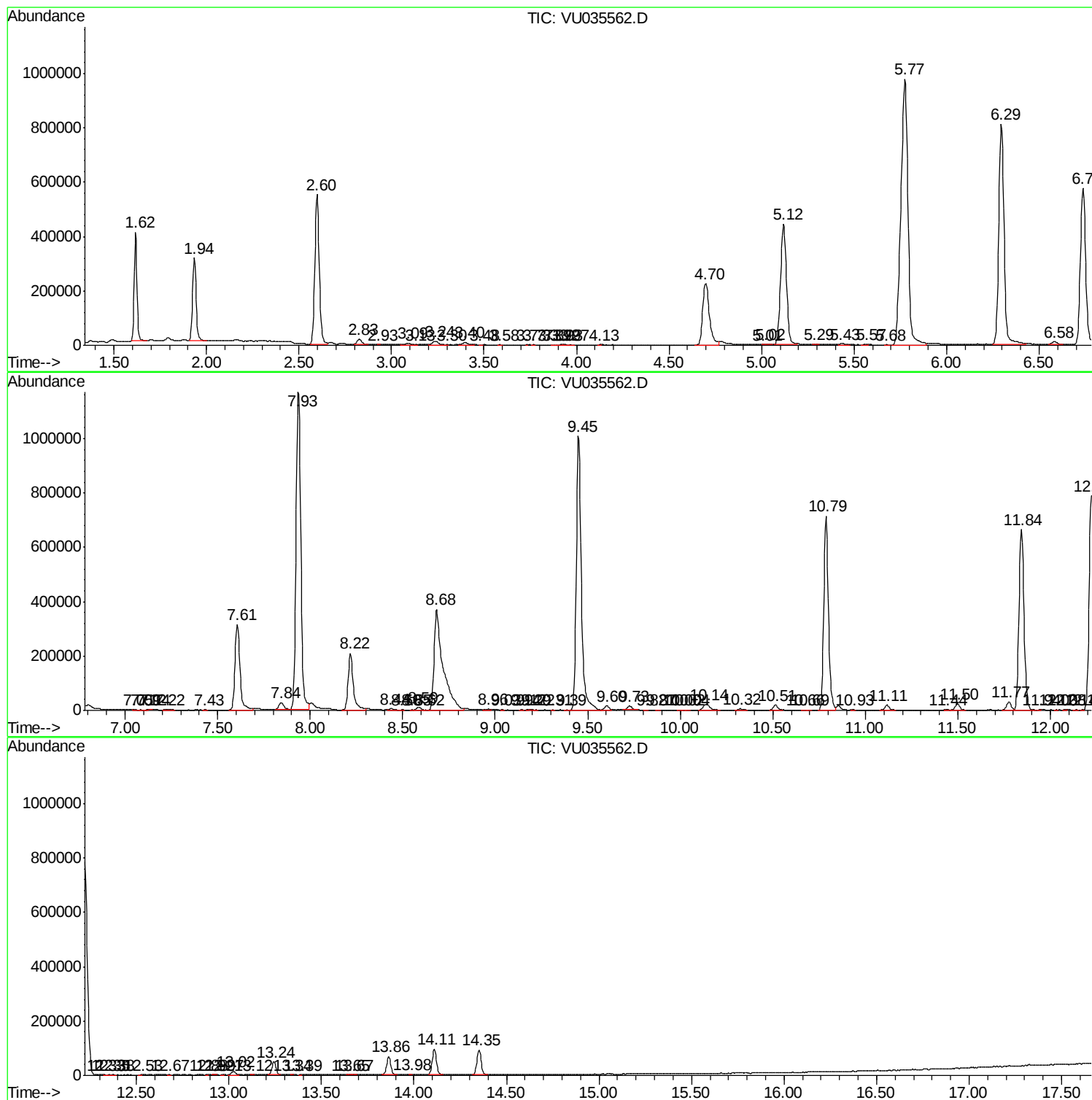
Sum of corrected areas: 19757248

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM103119WMA.M  
Quant Title : VOC Analysis

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



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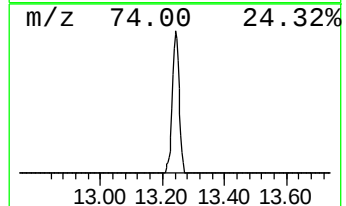
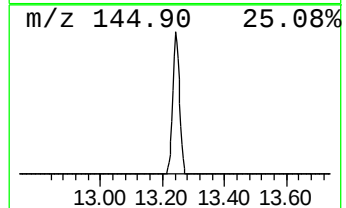
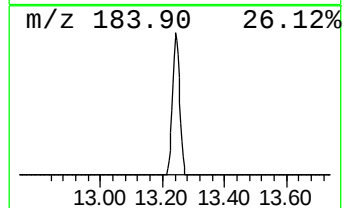
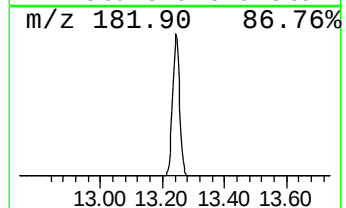
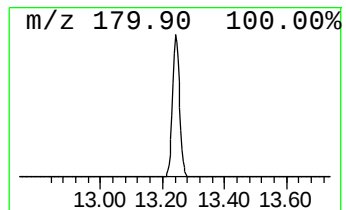
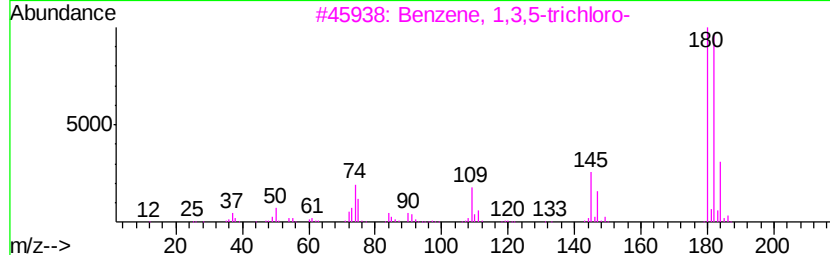
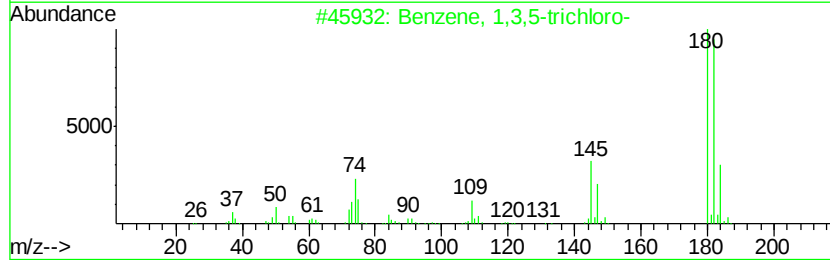
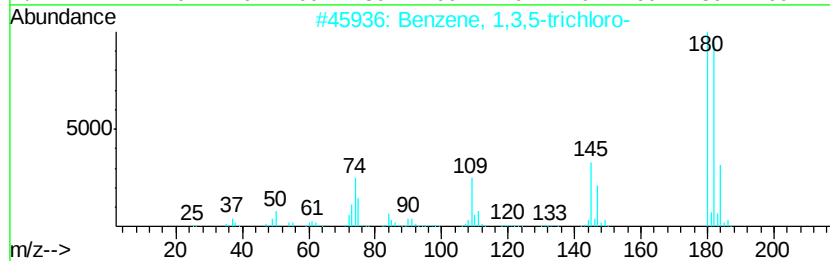
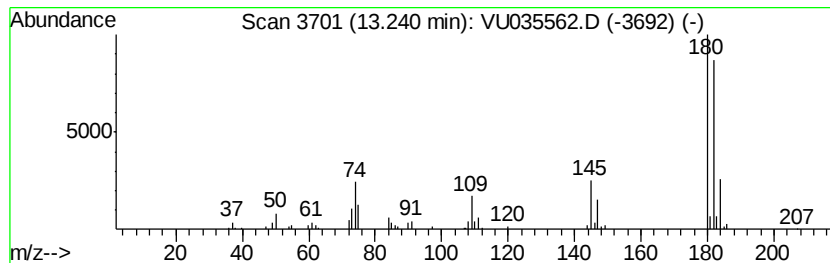
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM103119WMA.M  
Quant Title : VOC Analysis

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 3

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.24 | 3.04 ug/L | 75751 | 1,4-Dichlorobenzene-d4 | 11.84 |

| 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, 1,3,5-trichloro- | 180 | C6H3Cl3 | 000108-70-3 | 98   |
| 4    |    | Benzene, 1,2,4-trichloro- | 180 | C6H3Cl3 | 000120-82-1 | 97   |
| 5    |    | Benzene, 1,2,4-trichloro- | 180 | C6H3Cl3 | 000120-82-1 | 95   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Benzene, 1,3,5-tr... | 13.24 | 3.0     | ug/L  | 75751    | 3                     | 11.84 | 1247770 | 50.0 |