

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102820\  
 Data File : VW017006.D  
 Acq On : 28 Oct 2020 12:12  
 Operator : SY/VA  
 Sample : L4502-18  
 Misc : 6.20G/10ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG441

## 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\SOM2WLM102220S.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      | 2.355    | 69         | 74       | 82        | rVB   | 37674       | 62843      | 0.13%        | 0.113%     |
| 2      | 2.892    | 156        | 162      | 173       | rVB   | 24323       | 57283      | 0.11%        | 0.103%     |
| 3      | 3.495    | 259        | 261      | 264       | rVB   | 275         | 297        | 0.00%        | 0.001%     |
| 4      | 3.526    | 264        | 266      | 269       | rVV2  | 184         | 189        | 0.00%        | 0.000%     |
| 5      | 3.599    | 275        | 278      | 280       | rBV2  | 247         | 211        | 0.00%        | 0.000%     |
| 6      | 3.635    | 282        | 284      | 285       | rVB   | 302         | 156        | 0.00%        | 0.000%     |
| 7      | 3.696    | 291        | 294      | 301       | rVB2  | 243         | 520        | 0.00%        | 0.001%     |
| 8      | 3.757    | 301        | 304      | 305       | rBV2  | 220         | 161        | 0.00%        | 0.000%     |
| 9      | 3.904    | 325        | 328      | 331       | rVB2  | 282         | 249        | 0.00%        | 0.000%     |
| 10     | 3.934    | 331        | 333      | 337       | rVB2  | 366         | 318        | 0.00%        | 0.001%     |
| 11     | 4.019    | 337        | 347      | 359       | rBV2  | 64202       | 175605     | 0.35%        | 0.316%     |
| 12     | 4.123    | 361        | 364      | 365       | rBV3  | 889         | 1064       | 0.00%        | 0.002%     |
| 13     | 4.257    | 384        | 386      | 390       | rVB   | 234         | 241        | 0.00%        | 0.000%     |
| 14     | 4.379    | 398        | 406      | 418       | rVV2  | 2875        | 8183       | 0.02%        | 0.015%     |
| 15     | 4.477    | 420        | 422      | 425       | rBV2  | 171         | 227        | 0.00%        | 0.000%     |
| 16     | 4.769    | 468        | 470      | 471       | rBV   | 184         | 153        | 0.00%        | 0.000%     |
| 17     | 4.922    | 485        | 495      | 504       | rVB3  | 4364        | 14071      | 0.03%        | 0.025%     |
| 18     | 5.086    | 521        | 522      | 524       | rBV2  | 199         | 202        | 0.00%        | 0.000%     |
| 19     | 5.165    | 534        | 535      | 539       | rBV2  | 173         | 161        | 0.00%        | 0.000%     |
| 20     | 5.196    | 539        | 540      | 542       | rBV2  | 226         | 183        | 0.00%        | 0.000%     |
| 21     | 5.342    | 562        | 564      | 566       | rBV   | 151         | 177        | 0.00%        | 0.000%     |
| 22     | 5.428    | 572        | 578      | 580       | rBV4  | 509         | 749        | 0.00%        | 0.001%     |
| 23     | 5.647    | 613        | 614      | 617       | rVB2  | 234         | 150        | 0.00%        | 0.000%     |
| 24     | 5.690    | 619        | 621      | 623       | rVB2  | 173         | 163        | 0.00%        | 0.000%     |
| 25     | 5.873    | 649        | 651      | 653       | rVB   | 225         | 176        | 0.00%        | 0.000%     |
| 26     | 5.928    | 657        | 660      | 661       | rBV2  | 535         | 594        | 0.00%        | 0.001%     |
| 27     | 6.098    | 685        | 688      | 690       | rBV2  | 224         | 223        | 0.00%        | 0.000%     |
| 28     | 6.141    | 692        | 695      | 698       | rVB2  | 254         | 328        | 0.00%        | 0.001%     |
| 29     | 6.190    | 701        | 703      | 704       | rBV   | 263         | 155        | 0.00%        | 0.000%     |
| 30     | 6.214    | 704        | 707      | 711       | rBV   | 263         | 264        | 0.00%        | 0.000%     |
| 31     | 6.245    | 711        | 712      | 716       | rVV   | 130         | 160        | 0.00%        | 0.000%     |
| 32     | 6.281    | 716        | 718      | 720       | rVB   | 254         | 182        | 0.00%        | 0.000%     |
| 33     | 6.580    | 763        | 767      | 768       | rBV   | 275         | 228        | 0.00%        | 0.000%     |
| 34     | 6.598    | 768        | 770      | 773       | rVV2  | 158         | 208        | 0.00%        | 0.000%     |

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 Sample : L4502-18  
 Misc : 6.20G/10ML/MSVOA W/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
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## 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\SOM2WLM102220S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |       |        |
|----|--------|------|------|------|------|---------|---------|-------|--------|
| 35 | 6.671  | 780  | 782  | 783  | rVV  | 191     | 150     | 0.00% | 0.000% |
| 36 | 6.873  | 812  | 815  | 816  | rBV2 | 192     | 178     | 0.00% | 0.000% |
| 37 | 6.988  | 831  | 834  | 835  | rBV  | 193     | 168     | 0.00% | 0.000% |
| 38 | 7.086  | 842  | 850  | 853  | rBV2 | 6610    | 16121   | 0.03% | 0.029% |
| 39 | 7.403  | 899  | 902  | 903  | rBV2 | 318     | 287     | 0.00% | 0.001% |
| 40 | 7.439  | 906  | 908  | 915  | rVB2 | 249     | 349     | 0.00% | 0.001% |
| 41 | 7.513  | 915  | 920  | 921  | rVB  | 300     | 351     | 0.00% | 0.001% |
| 42 | 7.525  | 921  | 922  | 924  | rBV  | 211     | 165     | 0.00% | 0.000% |
| 43 | 7.653  | 932  | 943  | 954  | rBV  | 71238   | 177924  | 0.36% | 0.321% |
| 44 | 7.939  | 985  | 990  | 991  | rBV2 | 356     | 517     | 0.00% | 0.001% |
| 45 | 8.092  | 1013 | 1015 | 1018 | rBV2 | 258     | 203     | 0.00% | 0.000% |
| 46 | 8.159  | 1024 | 1026 | 1030 | rVB3 | 396     | 422     | 0.00% | 0.001% |
| 47 | 8.281  | 1034 | 1046 | 1065 | rBV3 | 140065  | 451949  | 0.90% | 0.814% |
| 48 | 8.445  | 1071 | 1073 | 1076 | rBV2 | 278     | 247     | 0.00% | 0.000% |
| 49 | 8.567  | 1088 | 1093 | 1096 | rVB2 | 382     | 696     | 0.00% | 0.001% |
| 50 | 8.610  | 1096 | 1100 | 1103 | rBV2 | 112     | 189     | 0.00% | 0.000% |
| 51 | 8.744  | 1121 | 1122 | 1126 | rBV2 | 300     | 297     | 0.00% | 0.001% |
| 52 | 8.842  | 1130 | 1138 | 1148 | rVV  | 137798  | 272964  | 0.55% | 0.492% |
| 53 | 9.092  | 1169 | 1179 | 1191 | rBV  | 1315089 | 2601139 | 5.21% | 4.688% |
| 54 | 9.275  | 1202 | 1209 | 1219 | rVB  | 89169   | 181238  | 0.36% | 0.327% |
| 55 | 9.409  | 1229 | 1231 | 1235 | rVB2 | 806     | 935     | 0.00% | 0.002% |
| 56 | 9.573  | 1255 | 1258 | 1260 | rBV2 | 209     | 294     | 0.00% | 0.001% |
| 57 | 9.622  | 1263 | 1266 | 1268 | rVB  | 268     | 257     | 0.00% | 0.000% |
| 58 | 9.640  | 1268 | 1269 | 1271 | rBV  | 303     | 208     | 0.00% | 0.000% |
| 59 | 9.671  | 1271 | 1274 | 1277 | rBV  | 194     | 260     | 0.00% | 0.000% |
| 60 | 9.720  | 1281 | 1282 | 1285 | rVB3 | 271     | 224     | 0.00% | 0.000% |
| 61 | 9.744  | 1285 | 1286 | 1287 | rBV  | 234     | 145     | 0.00% | 0.000% |
| 62 | 9.823  | 1294 | 1299 | 1301 | rBV2 | 239     | 353     | 0.00% | 0.001% |
| 63 | 9.890  | 1307 | 1310 | 1311 | rBV  | 563     | 593     | 0.00% | 0.001% |
| 64 | 9.933  | 1315 | 1317 | 1320 | rVB2 | 274     | 158     | 0.00% | 0.000% |
| 65 | 10.037 | 1327 | 1334 | 1342 | rBV2 | 44351   | 81978   | 0.16% | 0.148% |
| 66 | 10.219 | 1358 | 1364 | 1371 | rBV5 | 1505    | 2839    | 0.01% | 0.005% |
| 67 | 10.323 | 1373 | 1381 | 1390 | rBV  | 196784  | 358218  | 0.72% | 0.646% |
| 68 | 10.579 | 1417 | 1423 | 1431 | rVB  | 24530   | 42802   | 0.09% | 0.077% |
| 69 | 10.671 | 1437 | 1438 | 1439 | rBV  | 365     | 181     | 0.00% | 0.000% |
| 70 | 10.707 | 1439 | 1444 | 1450 | rBV2 | 4837    | 8452    | 0.02% | 0.015% |
| 71 | 10.780 | 1454 | 1456 | 1457 | rBV  | 196     | 147     | 0.00% | 0.000% |

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Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG441

## Integration Parameters: LSCINT.P

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 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
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 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |          |          |         |         |
|-----|--------|------|------|------|------|----------|----------|---------|---------|
| 72  | 10.860 | 1461 | 1469 | 1470 | rBV  | 44811882 | 49954414 | 100.00% | 90.027% |
| 73  | 11.634 | 1589 | 1596 | 1606 | rBV  | 170297   | 280869   | 0.56%   | 0.506%  |
| 74  | 11.841 | 1625 | 1630 | 1637 | rVB3 | 2949     | 5483     | 0.01%   | 0.010%  |
| 75  | 12.164 | 1679 | 1683 | 1694 | rVB4 | 1851     | 3836     | 0.01%   | 0.007%  |
| 76  | 12.469 | 1730 | 1733 | 1737 | rVB4 | 800      | 1295     | 0.00%   | 0.002%  |
| 77  | 12.609 | 1750 | 1756 | 1763 | rVB2 | 12181    | 19807    | 0.04%   | 0.036%  |
| 78  | 12.695 | 1763 | 1770 | 1776 | rBV  | 52466    | 82252    | 0.16%   | 0.148%  |
| 79  | 12.804 | 1785 | 1788 | 1793 | rVB3 | 1106     | 1486     | 0.00%   | 0.003%  |
| 80  | 12.871 | 1795 | 1799 | 1802 | rVV2 | 3699     | 5505     | 0.01%   | 0.010%  |
| 81  | 12.945 | 1806 | 1811 | 1819 | rVV3 | 4896     | 9458     | 0.02%   | 0.017%  |
| 82  | 13.036 | 1822 | 1826 | 1830 | rVV3 | 1046     | 1672     | 0.00%   | 0.003%  |
| 83  | 13.109 | 1834 | 1838 | 1846 | rVB3 | 1857     | 2951     | 0.01%   | 0.005%  |
| 84  | 13.249 | 1857 | 1861 | 1866 | rBV  | 11387    | 17576    | 0.04%   | 0.032%  |
| 85  | 13.365 | 1875 | 1880 | 1882 | rBV2 | 3861     | 5910     | 0.01%   | 0.011%  |
| 86  | 13.499 | 1898 | 1902 | 1906 | rBV3 | 2091     | 3341     | 0.01%   | 0.006%  |
| 87  | 13.560 | 1906 | 1912 | 1924 | rVB  | 108282   | 185465   | 0.37%   | 0.334%  |
| 88  | 13.652 | 1924 | 1927 | 1934 | rVB5 | 790      | 1337     | 0.00%   | 0.002%  |
| 89  | 13.749 | 1934 | 1943 | 1947 | rBV  | 21050    | 42950    | 0.09%   | 0.077%  |
| 90  | 13.792 | 1947 | 1950 | 1955 | rVV3 | 22074    | 40207    | 0.08%   | 0.072%  |
| 91  | 13.853 | 1956 | 1960 | 1971 | rVB  | 99982    | 174317   | 0.35%   | 0.314%  |
| 92  | 13.951 | 1971 | 1976 | 1981 | rVB  | 10066    | 14105    | 0.03%   | 0.025%  |
| 93  | 14.011 | 1981 | 1986 | 1988 | rBV2 | 9404     | 13741    | 0.03%   | 0.025%  |
| 94  | 14.097 | 1997 | 2000 | 2007 | rVB  | 18863    | 27411    | 0.05%   | 0.049%  |
| 95  | 14.341 | 2036 | 2040 | 2047 | rVB4 | 4896     | 9026     | 0.02%   | 0.016%  |
| 96  | 14.420 | 2047 | 2053 | 2056 | rBV  | 11790    | 19237    | 0.04%   | 0.035%  |
| 97  | 14.463 | 2056 | 2060 | 2065 | rVB  | 15517    | 23551    | 0.05%   | 0.042%  |
| 98  | 14.536 | 2070 | 2072 | 2074 | rBV2 | 645      | 441      | 0.00%   | 0.001%  |
| 99  | 14.688 | 2094 | 2097 | 2101 | rBV4 | 2125     | 2988     | 0.01%   | 0.005%  |
| 100 | 14.798 | 2110 | 2115 | 2121 | rBV5 | 4404     | 7914     | 0.02%   | 0.014%  |

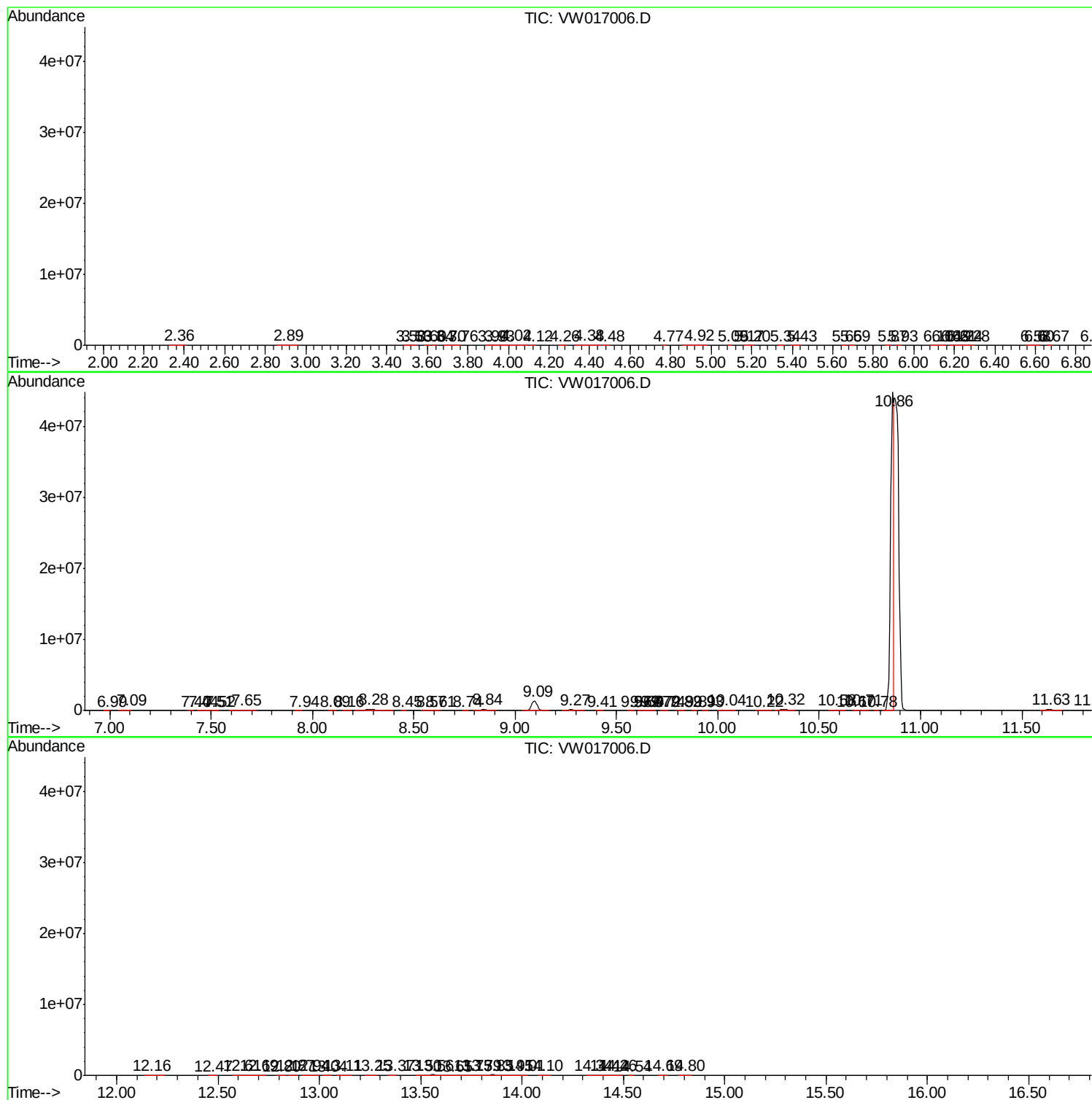
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Data File : VW017006.D  
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Sample : L4502-18  
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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG441

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102820\  
Data File : VW017006.D  
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ALS Vial : 5 Sample Multiplier: 1

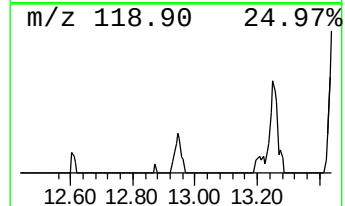
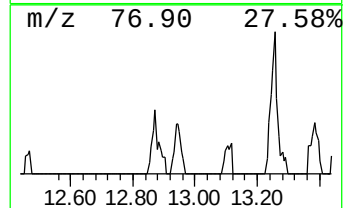
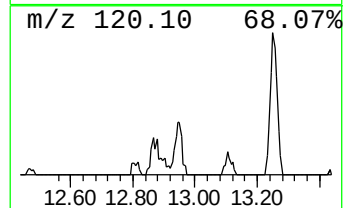
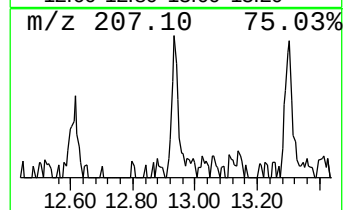
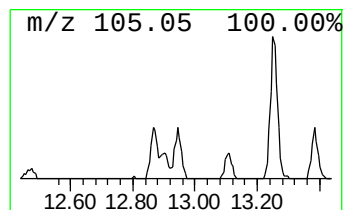
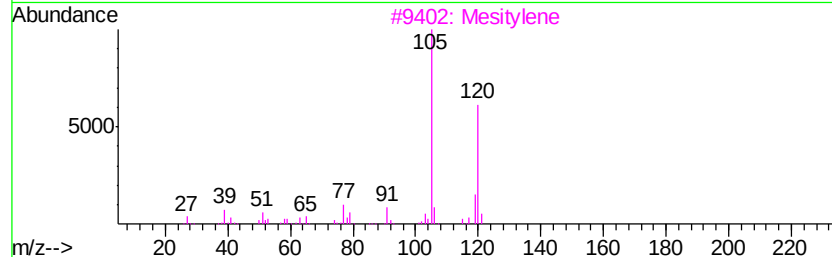
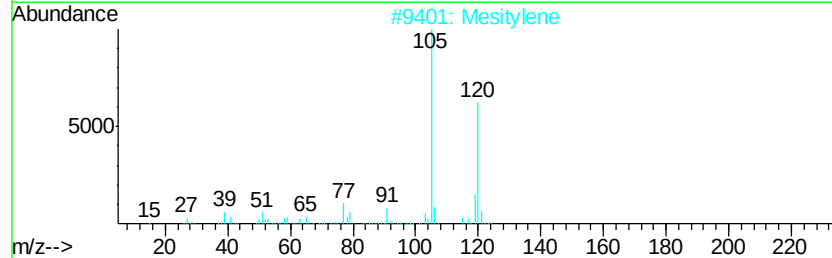
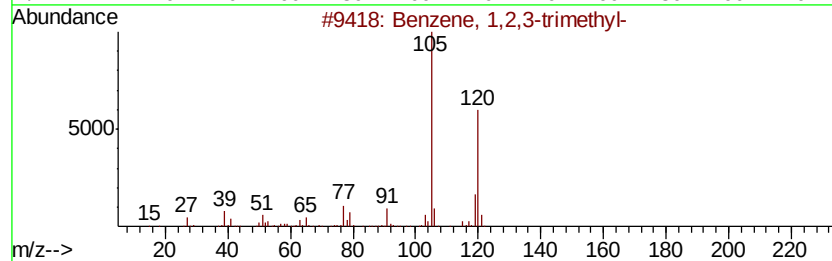
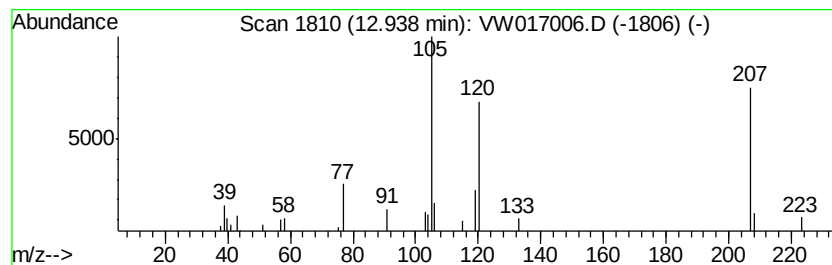
Instrument :  
MSVOA\_W  
ClientSampled :  
BG441

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 3 Benzene, 1,2,3-trimethyl- Concentration Rank 11

| R.T.    | EstConc   | Area                      | Relative to ISTD       | R.T.           |
|---------|-----------|---------------------------|------------------------|----------------|
| 12.94   | 1.27 ug/L | 9458                      | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5         | Tentative ID              | MW MolForm             | CAS# Qual      |
| 1       |           | Benzene, 1,2,3-trimethyl- | 120 C9H12              | 000526-73-8 64 |
| 2       |           | Mesitylene                | 120 C9H12              | 000108-67-8 64 |
| 3       |           | Mesitylene                | 120 C9H12              | 000108-67-8 64 |
| 4       |           | Benzene, 1,2,4-trimethyl- | 120 C9H12              | 000095-63-6 64 |
| 5       |           | Benzene, 1,2,4-trimethyl- | 120 C9H12              | 000095-63-6 64 |



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ALS Vial : 5 Sample Multiplier: 1

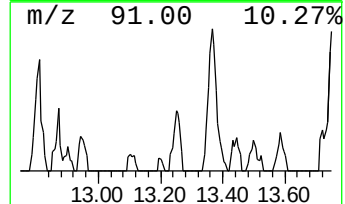
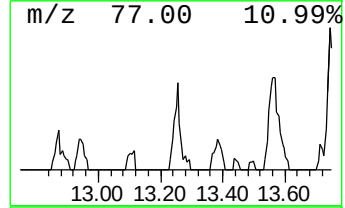
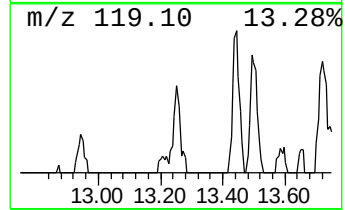
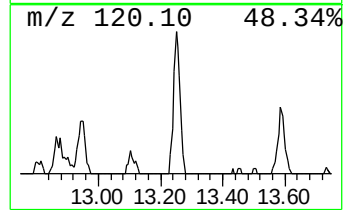
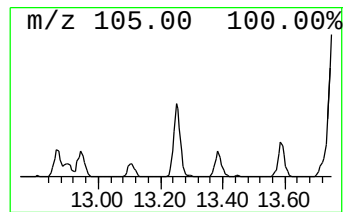
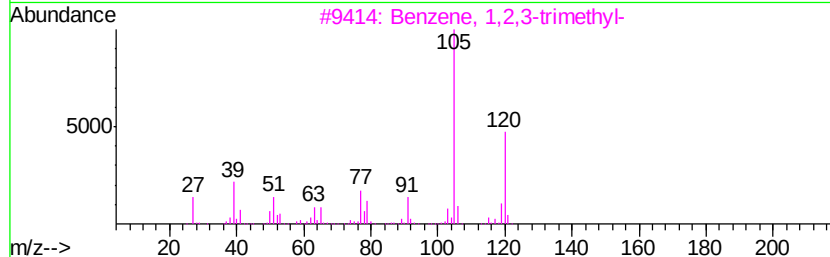
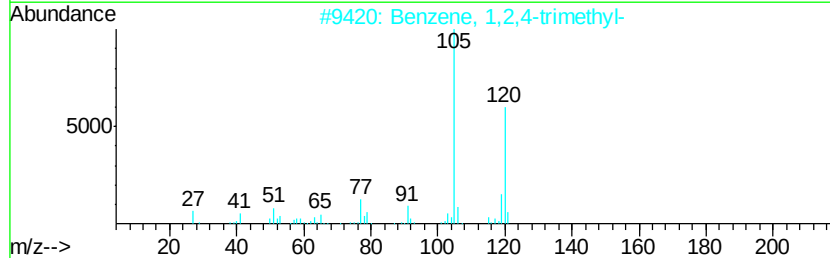
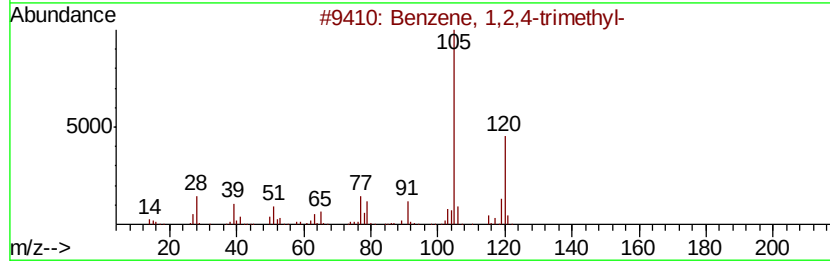
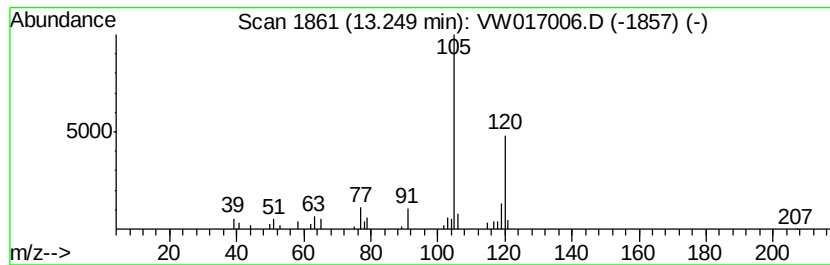
Instrument :  
MSVOA\_W  
ClientSampled :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
Quant Title : VOC Analysis

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

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Peak Number 4 Benzene, 1,2,4-trimethyl- Concentration Rank 8

| R.T.    | EstConc   | Area                      | Relative to ISTD       | R.T.           |
|---------|-----------|---------------------------|------------------------|----------------|
| 13.25   | 2.37 ug/L | 17576                     | 1,4-Dichlorobenzene-d4 | 13.56          |
| Hit# of | 5         | Tentative ID              | MW MolForm             | CAS# Qual      |
| 1       |           | Benzene, 1,2,4-trimethyl- | 120 C9H12              | 000095-63-6 91 |
| 2       |           | Benzene, 1,2,4-trimethyl- | 120 C9H12              | 000095-63-6 91 |
| 3       |           | Benzene, 1,2,3-trimethyl- | 120 C9H12              | 000526-73-8 91 |
| 4       |           | Benzene, 1,2,4-trimethyl- | 120 C9H12              | 000095-63-6 91 |
| 5       |           | Mesitylene                | 120 C9H12              | 000108-67-8 90 |



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ClientSampleId :  
BG441

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
Quant Title : VOC Analysis

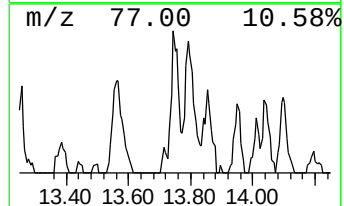
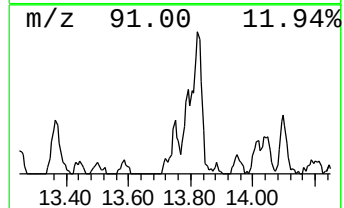
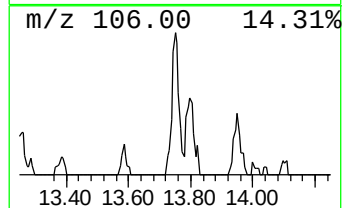
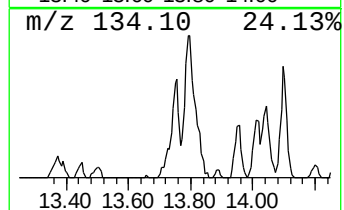
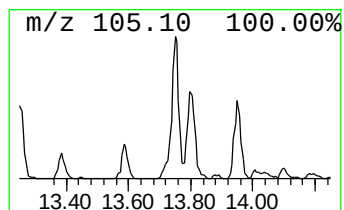
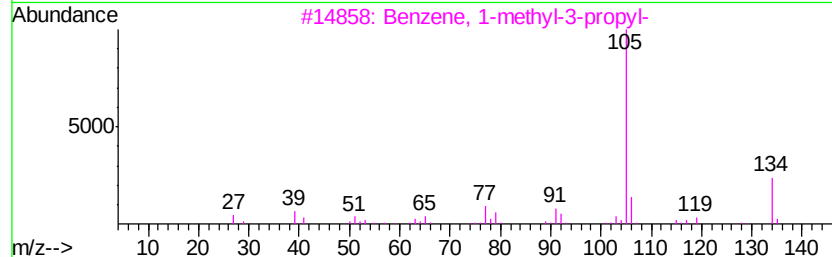
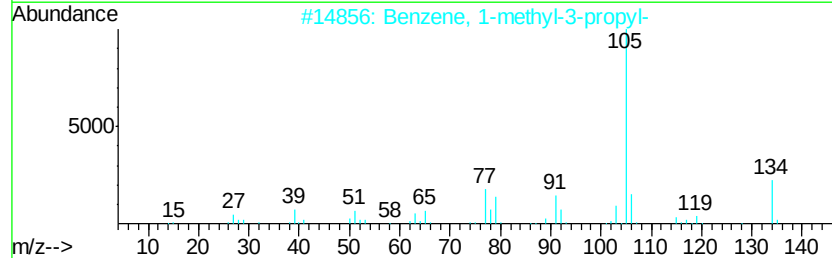
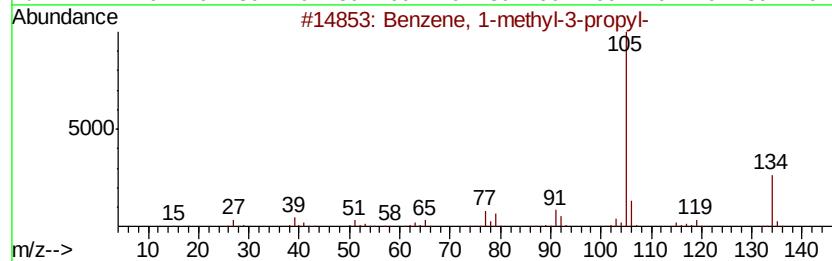
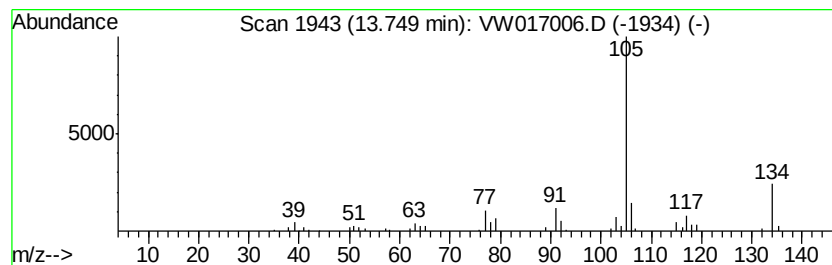
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Benzene, 1-methyl-3-propyl- Concentration Rank 2

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.75 | 5.79 ug/L | 42950 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 91   |
| 2    |    | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 91   |
| 3    |    | Benzene, 1-methyl-3-propyl- | 134 | C10H14  | 001074-43-7 | 91   |
| 4    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 90   |
| 5    |    | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102820\  
Data File : VW017006.D  
Acq On : 28 Oct 2020 12:12  
Operator : SY/VA  
Sample : L4502-18  
Misc : 6.20G/10ML/MSVOA W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG441

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
Quant Title : VOC Analysis

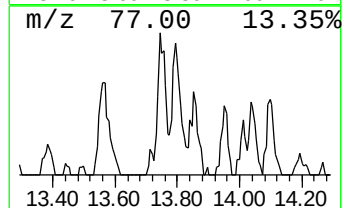
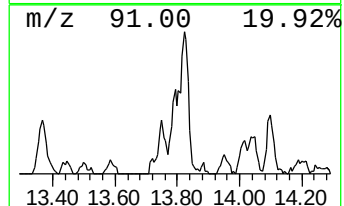
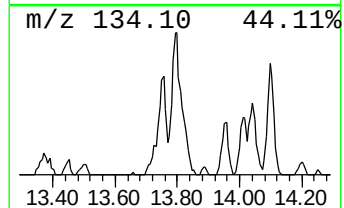
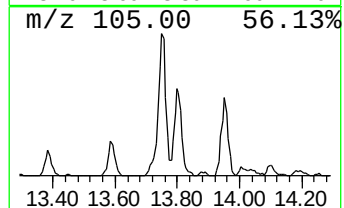
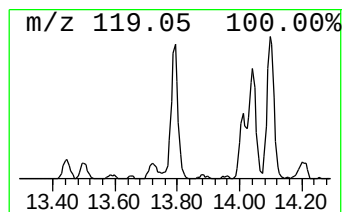
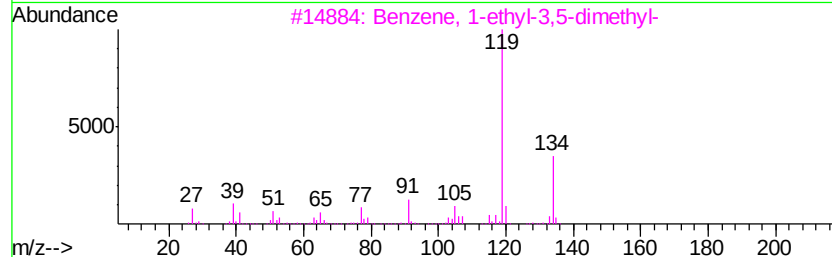
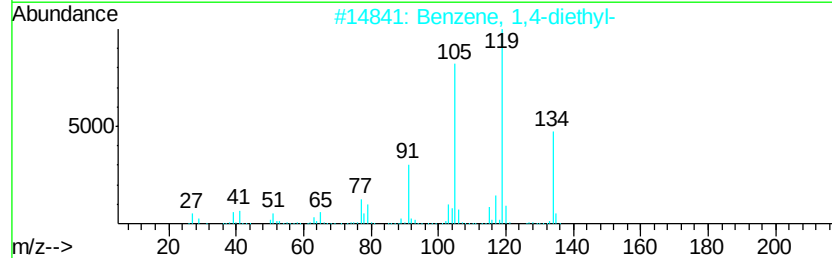
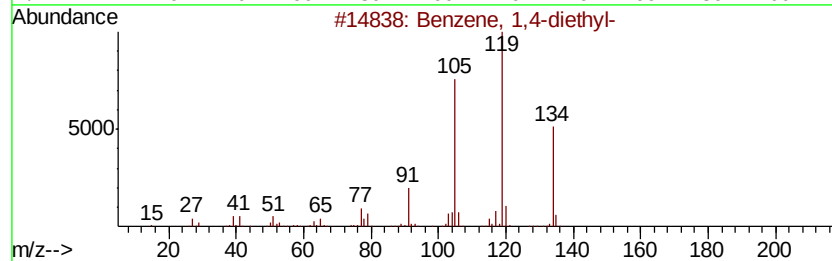
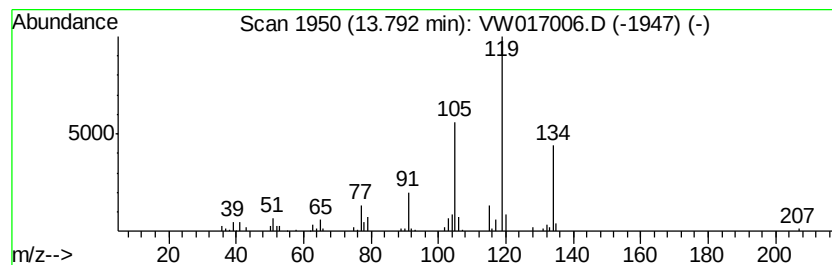
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Benzene, 1,4-diethyl- Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.79 | 5.42 ug/L | 40207 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,4-diethyl-          | 134 | C10H14  | 000105-05-5 | 93   |
| 2    |    | Benzene, 1,4-diethyl-          | 134 | C10H14  | 000105-05-5 | 90   |
| 3    |    | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 86   |
| 4    |    | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 86   |
| 5    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 86   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102820\  
Data File : VW017006.D  
Acq On : 28 Oct 2020 12:12  
Operator : SY/VA  
Sample : L4502-18  
Misc : 6.20G/10ML/MSVOA W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG441

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
Quant Title : VOC Analysis

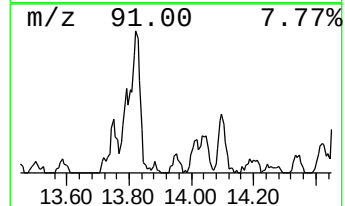
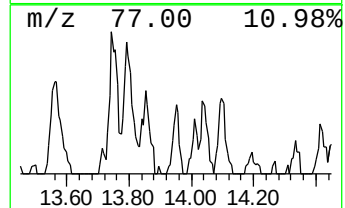
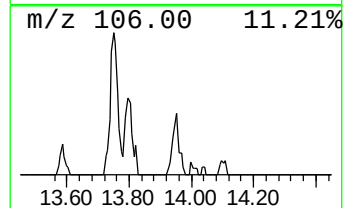
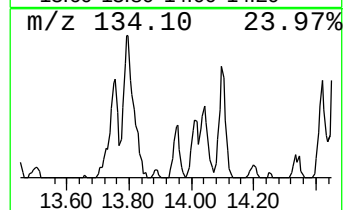
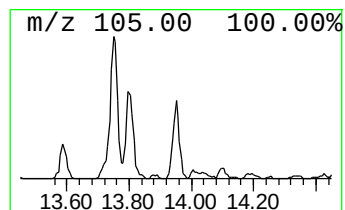
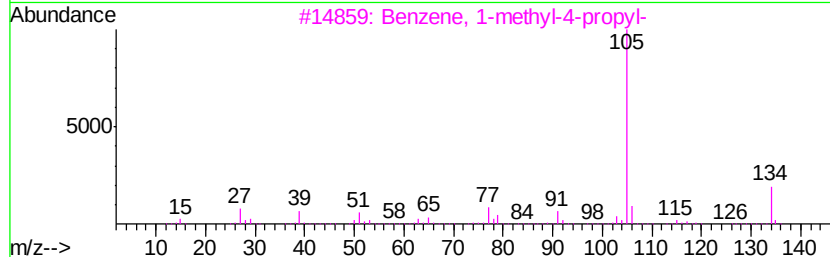
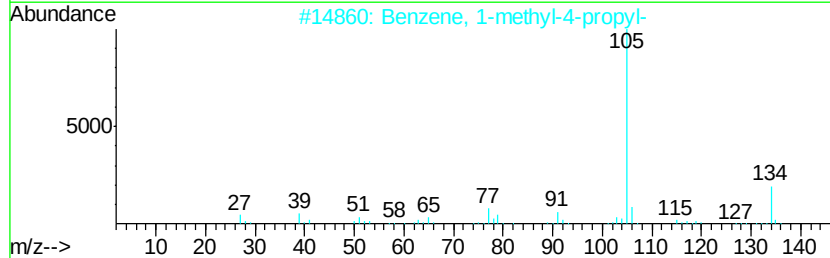
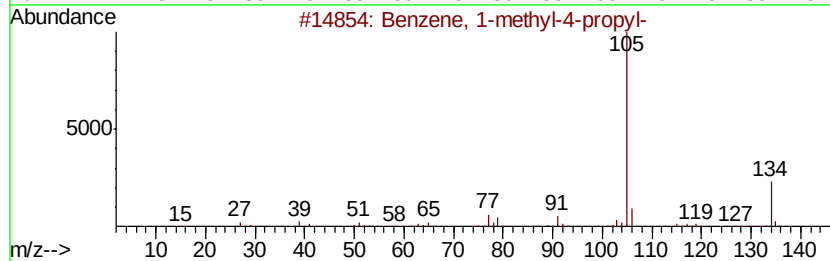
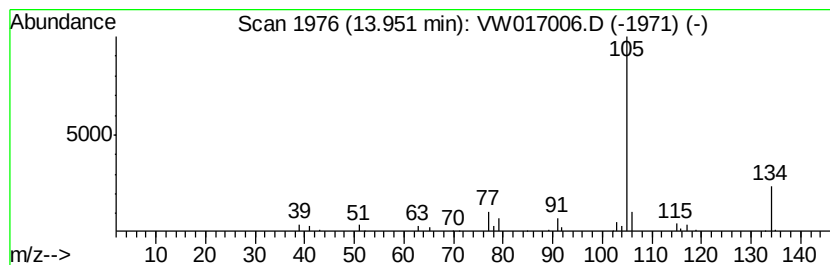
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, 1-methyl-4-propyl- Concentration Rank 9

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 13.95 | 1.90 ug/L | 14105 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 90   |
| 2    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 87   |
| 3    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 87   |
| 4    |    | Benzene, 1-methyl-4-propyl- | 134 | C10H14  | 001074-55-1 | 87   |
| 5    |    | Benzene, 1-methyl-2-propyl- | 134 | C10H14  | 001074-17-5 | 83   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102820\  
Data File : VW017006.D  
Acq On : 28 Oct 2020 12:12  
Operator : SY/VA  
Sample : L4502-18  
Misc : 6.20G/10ML/MSVOA W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG441

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
Quant Title : VOC Analysis

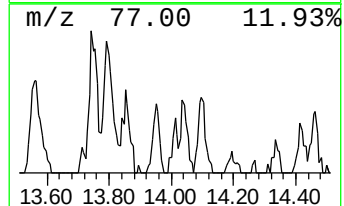
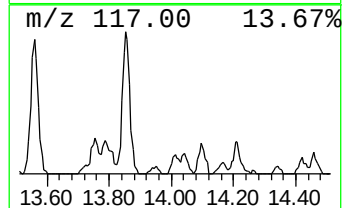
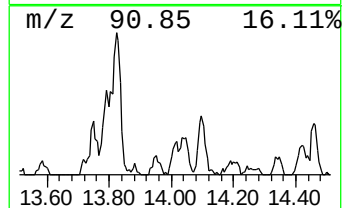
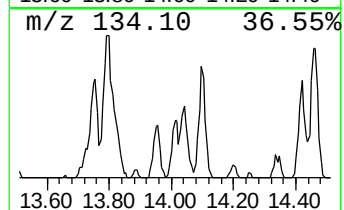
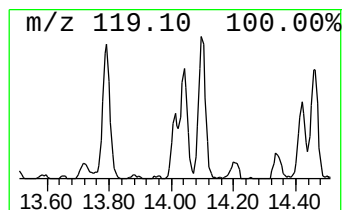
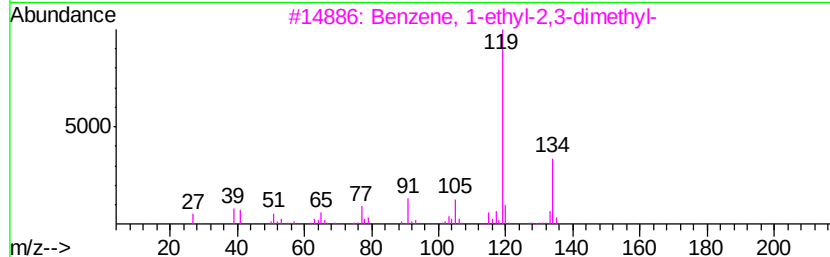
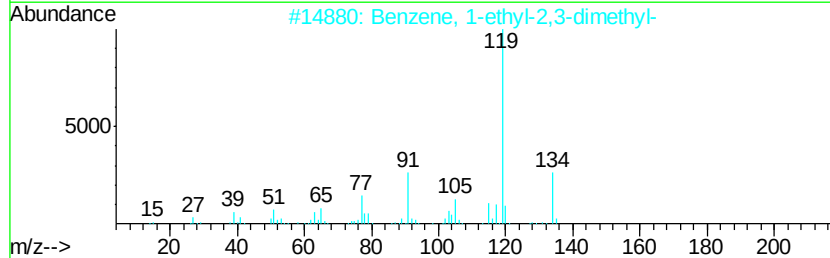
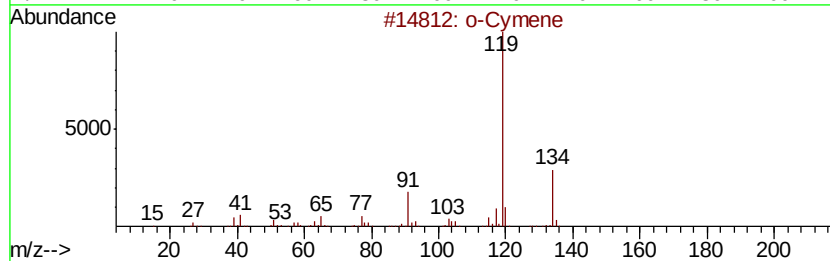
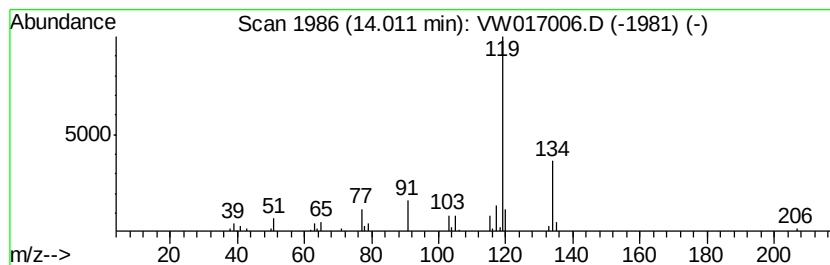
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 o-Cymene Concentration Rank 10

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.01 | 1.85 ug/L | 13741 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 91   |
| 2       |   | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 91   |
| 3       |   | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 91   |
| 4       |   | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 91   |
| 5       |   | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102820\  
Data File : VW017006.D  
Acq On : 28 Oct 2020 12:12  
Operator : SY/VA  
Sample : L4502-18  
Misc : 6.20G/10ML/MSVOA W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG441

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
Quant Title : VOC Analysis

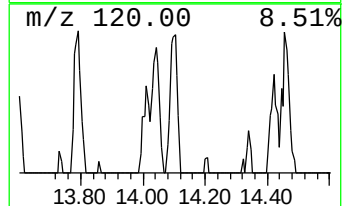
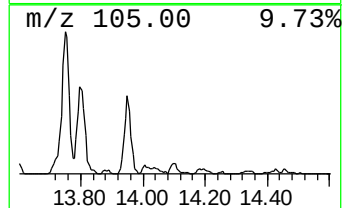
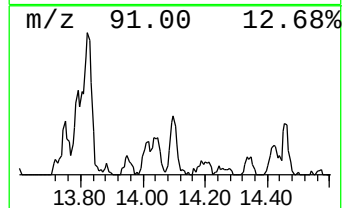
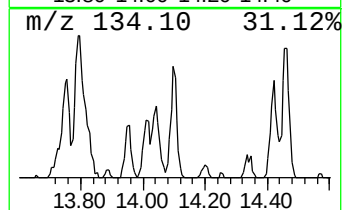
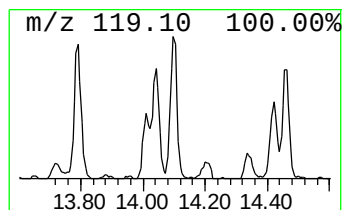
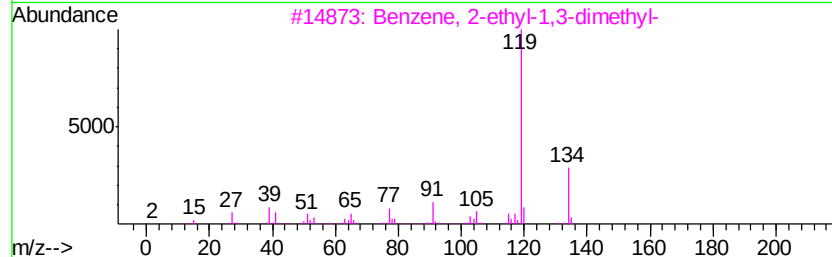
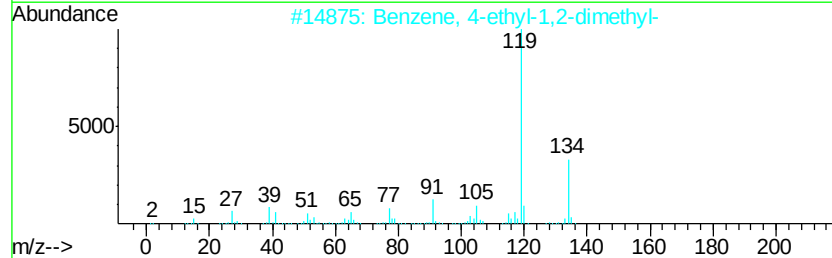
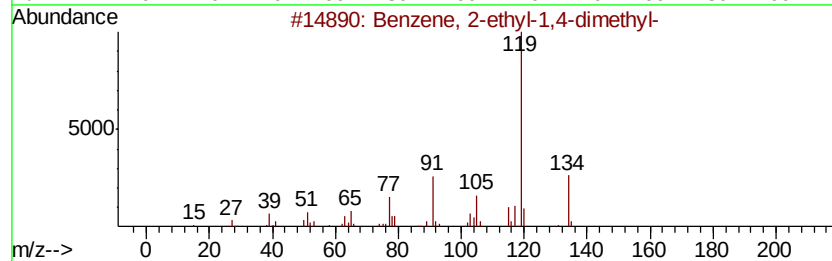
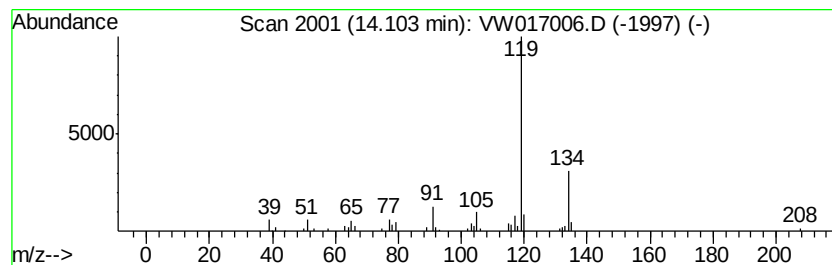
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.10 | 3.69 ug/L | 27411 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 96   |
| 2    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 95   |
| 3    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 94   |
| 4    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 94   |
| 5    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102820\  
Data File : VW017006.D  
Acq On : 28 Oct 2020 12:12  
Operator : SY/VA  
Sample : L4502-18  
Misc : 6.20G/10ML/MSVOA W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG441

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
Quant Title : VOC Analysis

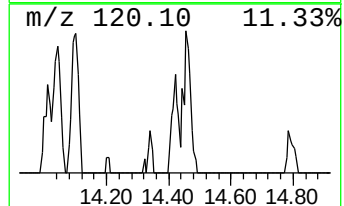
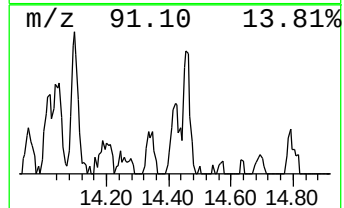
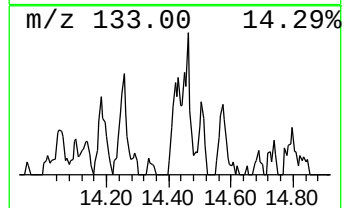
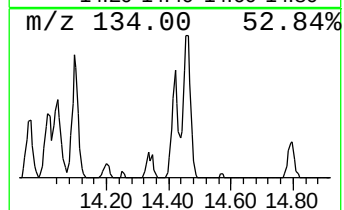
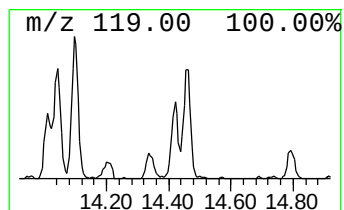
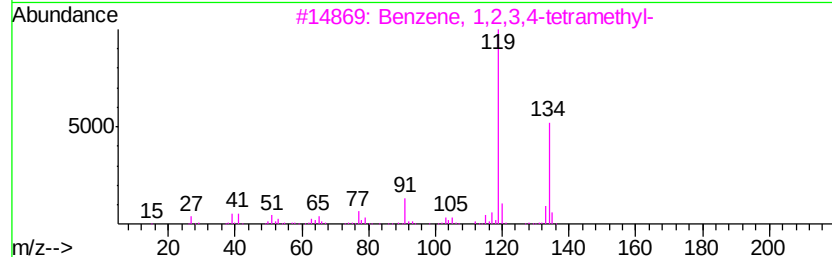
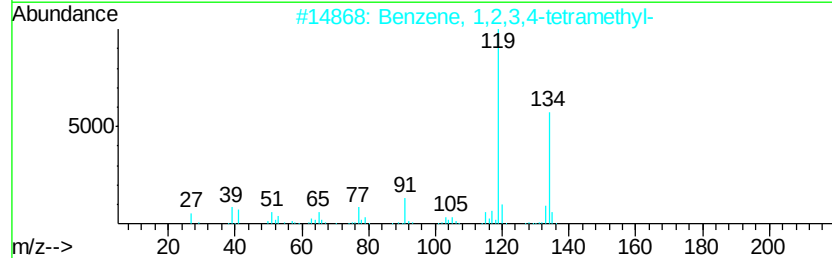
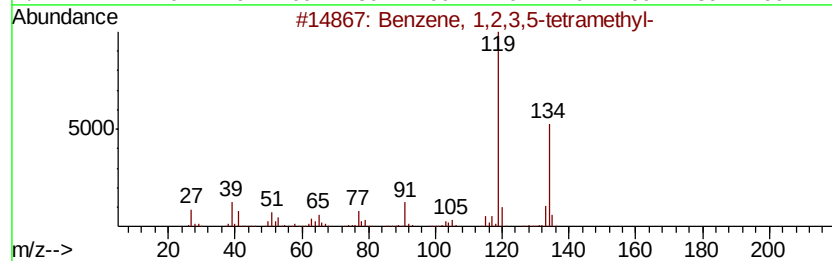
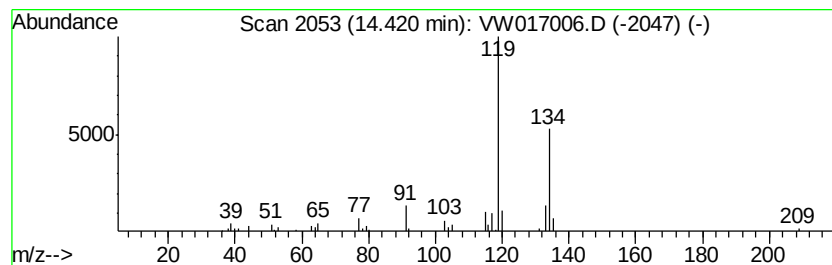
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 7

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.42 | 2.59 ug/L | 19237 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 97   |
| 2    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 95   |
| 3    |    | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14  | 000488-23-3 | 94   |
| 4    |    | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14  | 000527-53-7 | 94   |
| 5    |    | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14  | 000095-93-2 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW102820\  
Data File : VW017006.D  
Acq On : 28 Oct 2020 12:12  
Operator : SY/VA  
Sample : L4502-18  
Misc : 6.20G/10ML/MSVOA W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG441

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.M  
Quant Title : VOC Analysis

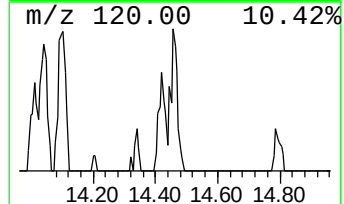
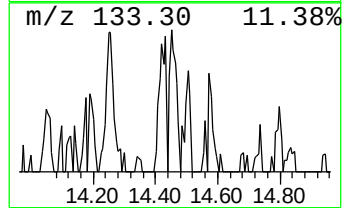
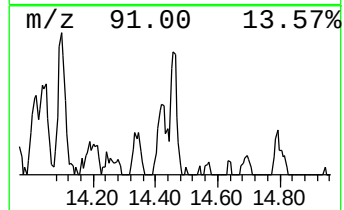
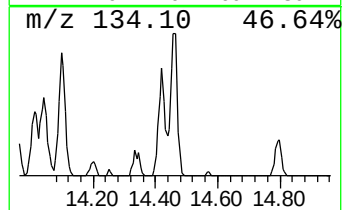
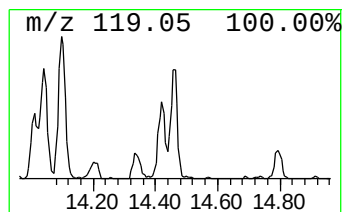
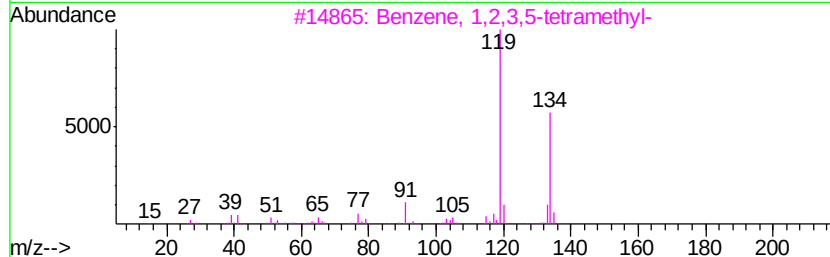
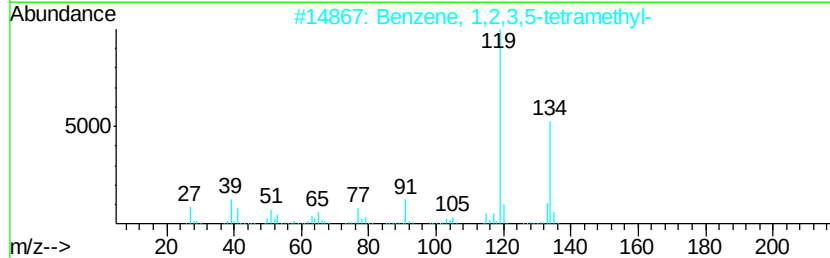
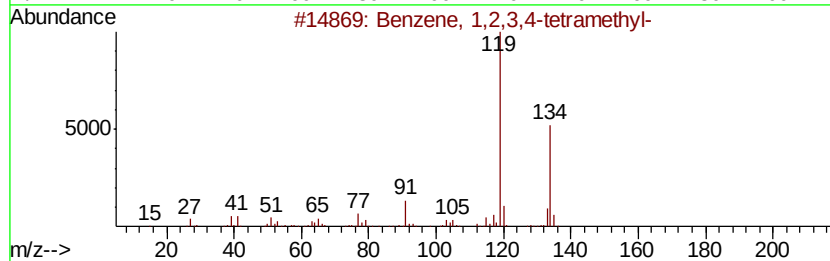
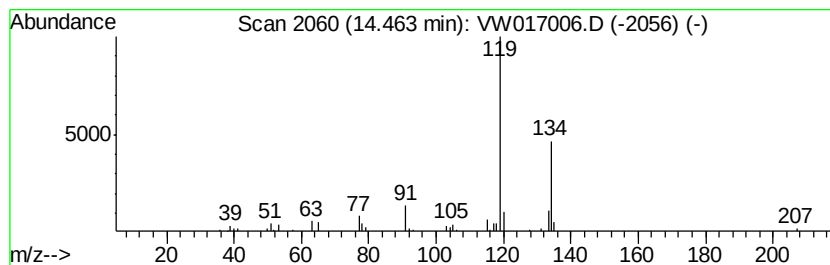
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 14.46 | 3.17 ug/L | 23551 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 95   |
| 2    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 94   |
| 3    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 91   |
| 4    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 91   |
| 5    |    | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 91   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW102820\  
Data File : VW017006.D  
Acq On : 28 Oct 2020 12:12  
Operator : SY/VA  
Sample : L4502-18  
Misc : 6.20G/10ML/MSVOA\_W/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG441

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM102220S.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, 1,2,3-tr... | 12.94 | 1.3     | ug/L  | 9458     | 3                     | 13.56 | 185465 | 25.0 |
| Benzene, 1,2,4-tr... | 13.25 | 2.4     | ug/L  | 17576    | 3                     | 13.56 | 185465 | 25.0 |
| Benzene, 1-methyl... | 13.75 | 5.8     | ug/L  | 42950    | 3                     | 13.56 | 185465 | 25.0 |
| Benzene, 1,4-diet... | 13.79 | 5.4     | ug/L  | 40207    | 3                     | 13.56 | 185465 | 25.0 |
| Benzene, 1-methyl... | 13.95 | 1.9     | ug/L  | 14105    | 3                     | 13.56 | 185465 | 25.0 |
| o-Cymene             | 14.01 | 1.9     | ug/L  | 13741    | 3                     | 13.56 | 185465 | 25.0 |
| Benzene, 2-ethyl-... | 14.10 | 3.7     | ug/L  | 27411    | 3                     | 13.56 | 185465 | 25.0 |
| Benzene, 1,2,3,5-... | 14.42 | 2.6     | ug/L  | 19237    | 3                     | 13.56 | 185465 | 25.0 |
| Benzene, 1,2,3,4-... | 14.46 | 3.2     | ug/L  | 23551    | 3                     | 13.56 | 185465 | 25.0 |