

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY072420\  
 Data File : VY003338.D  
 Acq On : 24 Jul 2020 17:39  
 Operator : SY/MD  
 Sample : L3436-06  
 Misc : 6.70G/5ML/MSVOA Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 6

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % 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\_Y\METHODS\82Y071020S.M  
 Title : SW846 8260

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 4.724       | 479           | 490         | 505          | rBV3     | 98394          | 317096        | 14.50%          | 2.145%        |
| 2         | 7.724       | 972           | 982         | 988          | rBV      | 315666         | 762398        | 34.85%          | 5.158%        |
| 3         | 7.797       | 988           | 994         | 1004         | rVB      | 552942         | 1240358       | 56.70%          | 8.392%        |
| 4         | 8.145       | 1043          | 1051        | 1062         | rBV      | 291361         | 650833        | 29.75%          | 4.403%        |
| 5         | 8.693       | 1132          | 1141        | 1157         | rVB      | 824147         | 1611921       | 73.69%          | 10.906%       |
| 6         | 9.748       | 1307          | 1314        | 1321         | rVB2     | 11327          | 22663         | 1.04%           | 0.153%        |
| 7         | 10.181      | 1377          | 1385        | 1392         | rBV      | 1293584        | 2187390       | 100.00%         | 14.800%       |
| 8         | 10.577      | 1444          | 1450        | 1455         | rBV      | 17762          | 30437         | 1.39%           | 0.206%        |
| 9         | 11.492      | 1591          | 1600        | 1606         | rBV      | 1091213        | 1810341       | 82.76%          | 12.248%       |
| 10        | 11.589      | 1611          | 1616        | 1621         | rVB      | 16582          | 27210         | 1.24%           | 0.184%        |
| 11        | 11.693      | 1626          | 1633        | 1645         | rBV2     | 16328          | 47011         | 2.15%           | 0.318%        |
| 12        | 12.028      | 1676          | 1688        | 1696         | rBV2     | 23132          | 59190         | 2.71%           | 0.400%        |
| 13        | 12.333      | 1732          | 1738        | 1744         | rBV2     | 68965          | 114193        | 5.22%           | 0.773%        |
| 14        | 12.479      | 1755          | 1762        | 1770         | rBV      | 864412         | 1353939       | 61.90%          | 9.161%        |
| 15        | 12.577      | 1770          | 1778        | 1785         | rVV      | 10883          | 30541         | 1.40%           | 0.207%        |
| 16        | 12.644      | 1785          | 1789        | 1797         | rVB6     | 10897          | 28907         | 1.32%           | 0.196%        |
| 17        | 12.729      | 1797          | 1803        | 1806         | rBV      | 38596          | 64714         | 2.96%           | 0.438%        |
| 18        | 12.766      | 1806          | 1809        | 1812         | rVV      | 27690          | 42883         | 1.96%           | 0.290%        |
| 19        | 12.808      | 1812          | 1816        | 1821         | rVV      | 73475          | 116681        | 5.33%           | 0.789%        |
| 20        | 12.888      | 1825          | 1829        | 1834         | rVV2     | 15841          | 27412         | 1.25%           | 0.185%        |
| 21        | 12.973      | 1835          | 1843        | 1849         | rVB      | 41849          | 70473         | 3.22%           | 0.477%        |
| 22        | 13.119      | 1862          | 1867        | 1872         | rBV      | 43792          | 72831         | 3.33%           | 0.493%        |
| 23        | 13.180      | 1872          | 1877        | 1882         | rVB2     | 21890          | 38641         | 1.77%           | 0.261%        |
| 24        | 13.314      | 1891          | 1899        | 1902         | rBV2     | 24627          | 51786         | 2.37%           | 0.350%        |
| 25        | 13.363      | 1904          | 1907        | 1911         | rVV      | 30468          | 49056         | 2.24%           | 0.332%        |
| 26        | 13.424      | 1911          | 1917        | 1927         | rVB      | 945866         | 1591040       | 72.74%          | 10.765%       |
| 27        | 13.589      | 1940          | 1944        | 1946         | rBV2     | 25445          | 33992         | 1.55%           | 0.230%        |
| 28        | 13.625      | 1946          | 1950        | 1953         | rVV      | 64899          | 98554         | 4.51%           | 0.667%        |
| 29        | 13.662      | 1953          | 1956        | 1965         | rVB2     | 66355          | 107551        | 4.92%           | 0.728%        |
| 30        | 13.747      | 1965          | 1970        | 1975         | rVB6     | 28419          | 51890         | 2.37%           | 0.351%        |
| 31        | 13.820      | 1978          | 1982        | 1986         | rVB      | 23612          | 33576         | 1.53%           | 0.227%        |
| 32        | 13.881      | 1988          | 1992        | 1994         | rBV2     | 23150          | 33223         | 1.52%           | 0.225%        |
| 33        | 13.912      | 1994          | 1997        | 2001         | rVB2     | 25501          | 34003         | 1.55%           | 0.230%        |
| 34        | 13.967      | 2001          | 2006        | 2013         | rVB3     | 97787          | 152070        | 6.95%           | 1.029%        |

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Filtering: 5  
 Min Area: 3 % 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\_Y\METHODS\82Y071020S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 14.076 | 2019 | 2024 | 2029 | rBV2 | 79913  | 137678 | 6.29%  | 0.932% |
| 36 | 14.211 | 2041 | 2046 | 2050 | rBV2 | 31878  | 48516  | 2.22%  | 0.328% |
| 37 | 14.296 | 2055 | 2060 | 2063 | rVV2 | 48119  | 82982  | 3.79%  | 0.561% |
| 38 | 14.332 | 2063 | 2066 | 2070 | rVB  | 77340  | 104259 | 4.77%  | 0.705% |
| 39 | 14.381 | 2070 | 2074 | 2077 | rBV2 | 34624  | 51328  | 2.35%  | 0.347% |
| 40 | 14.418 | 2077 | 2080 | 2088 | rVB7 | 26689  | 49887  | 2.28%  | 0.338% |
| 41 | 14.515 | 2094 | 2096 | 2100 | rVB3 | 18192  | 22817  | 1.04%  | 0.154% |
| 42 | 14.564 | 2100 | 2104 | 2109 | rBV4 | 32909  | 56824  | 2.60%  | 0.384% |
| 43 | 14.613 | 2109 | 2112 | 2116 | rVB2 | 26393  | 35255  | 1.61%  | 0.239% |
| 44 | 14.674 | 2116 | 2122 | 2129 | rBV3 | 131190 | 291629 | 13.33% | 1.973% |
| 45 | 14.741 | 2129 | 2133 | 2138 | rVV4 | 22932  | 36879  | 1.69%  | 0.250% |
| 46 | 14.826 | 2143 | 2147 | 2153 | rBV2 | 50538  | 75350  | 3.44%  | 0.510% |
| 47 | 14.942 | 2161 | 2166 | 2169 | rBV4 | 48493  | 80624  | 3.69%  | 0.545% |
| 48 | 14.973 | 2169 | 2171 | 2176 | rVV4 | 24953  | 52211  | 2.39%  | 0.353% |
| 49 | 15.052 | 2178 | 2184 | 2188 | rVV3 | 49059  | 105564 | 4.83%  | 0.714% |
| 50 | 15.088 | 2188 | 2190 | 2196 | rVB5 | 21134  | 28383  | 1.30%  | 0.192% |
| 51 | 15.235 | 2211 | 2214 | 2218 | rVB4 | 15038  | 23688  | 1.08%  | 0.160% |
| 52 | 15.296 | 2219 | 2224 | 2227 | rBV2 | 21280  | 33384  | 1.53%  | 0.226% |
| 53 | 15.338 | 2227 | 2231 | 2235 | rBV4 | 21067  | 41550  | 1.90%  | 0.281% |
| 54 | 15.527 | 2255 | 2262 | 2267 | rBV4 | 25004  | 52614  | 2.41%  | 0.356% |
| 55 | 15.692 | 2280 | 2289 | 2290 | rBV4 | 24925  | 54164  | 2.48%  | 0.366% |
| 56 | 15.722 | 2292 | 2294 | 2300 | rVV2 | 34992  | 56617  | 2.59%  | 0.383% |
| 57 | 15.814 | 2304 | 2309 | 2316 | rBV6 | 17564  | 46987  | 2.15%  | 0.318% |
| 58 | 15.881 | 2316 | 2320 | 2327 | rVB5 | 13994  | 29696  | 1.36%  | 0.201% |
| 59 | 16.033 | 2337 | 2345 | 2352 | rBV4 | 30188  | 70399  | 3.22%  | 0.476% |
| 60 | 16.228 | 2373 | 2377 | 2383 | rVB5 | 20517  | 35360  | 1.62%  | 0.239% |
| 61 | 16.289 | 2383 | 2387 | 2392 | rBV3 | 17790  | 32302  | 1.48%  | 0.219% |
| 62 | 16.491 | 2412 | 2420 | 2428 | rBV3 | 30562  | 78405  | 3.58%  | 0.530% |

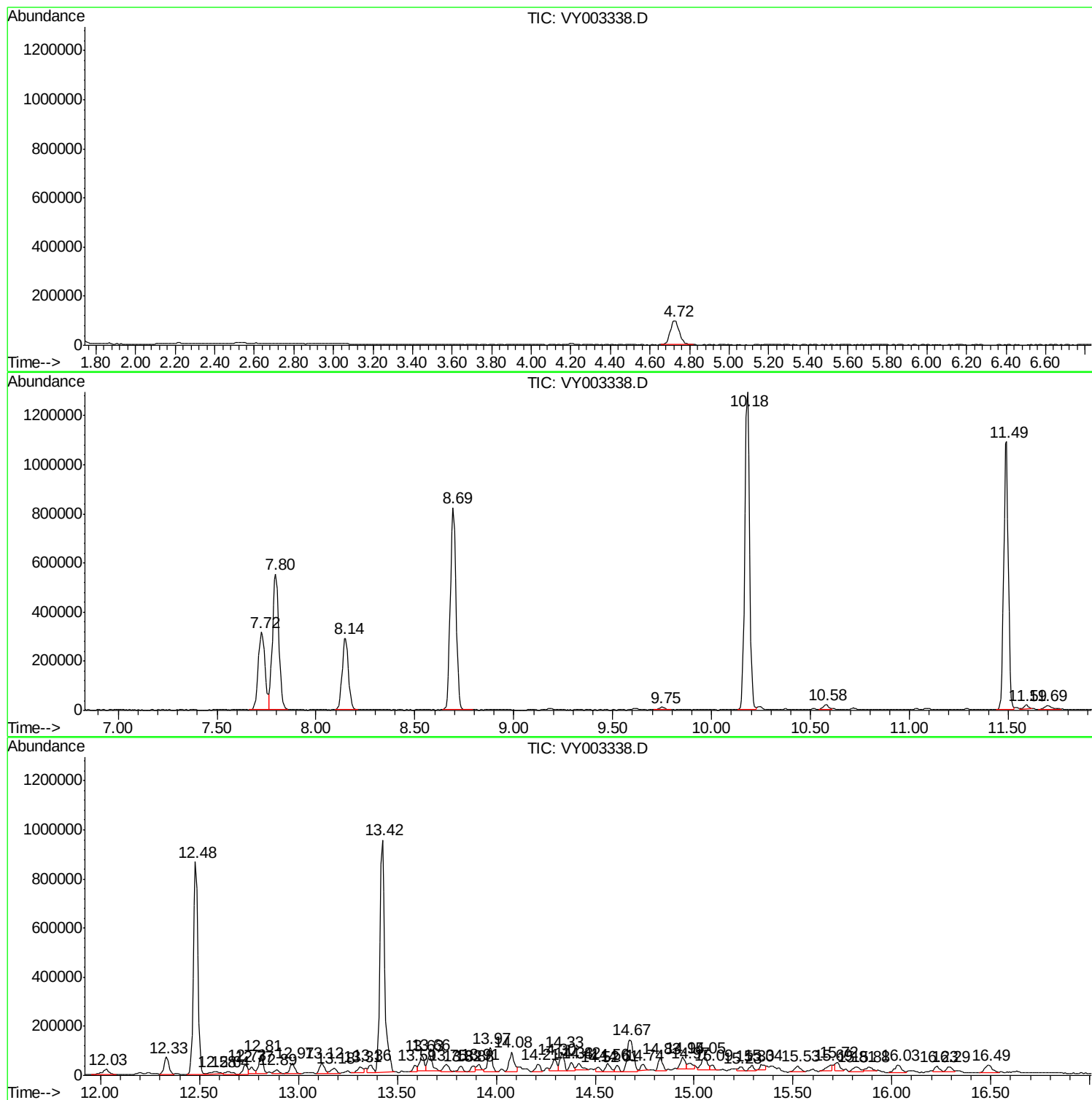
Sum of corrected areas: 14780156

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
Quant Title : SW846 8260

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



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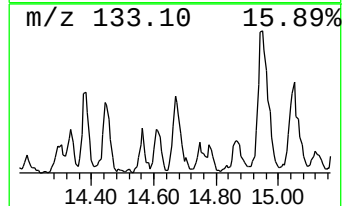
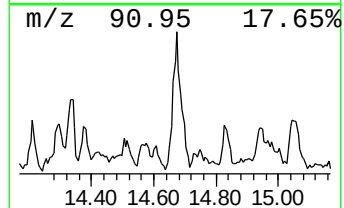
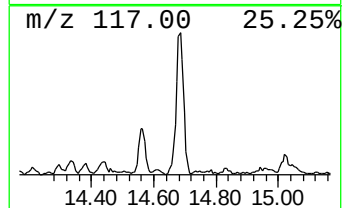
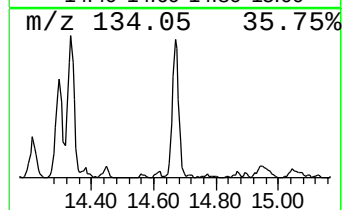
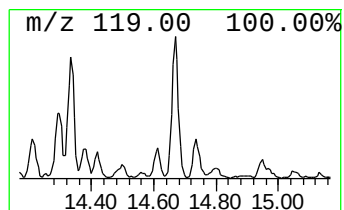
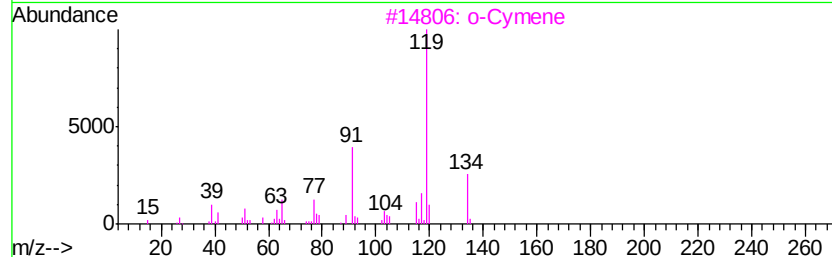
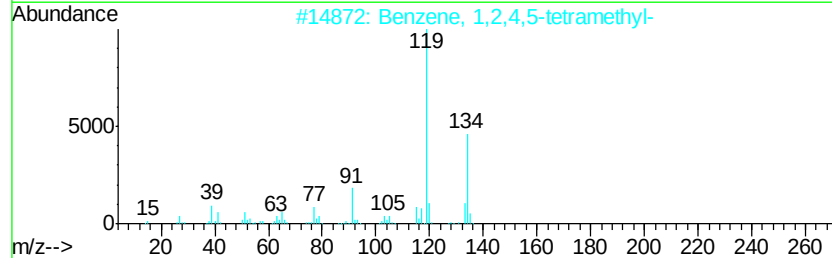
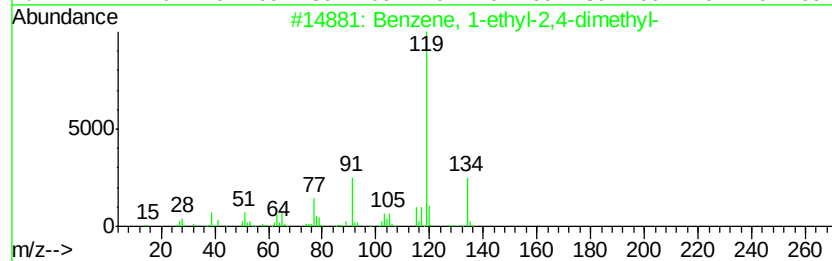
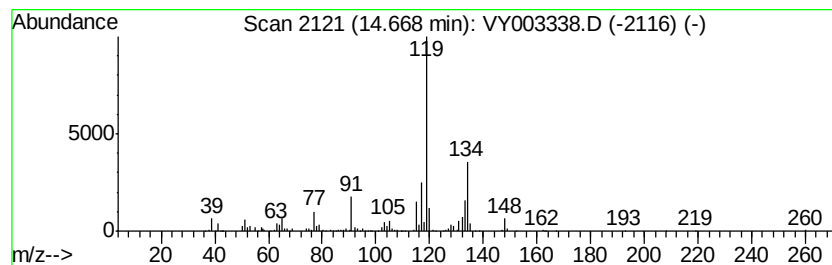
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.67 | 9.16 ug/l | 291629 | 1,4-Dichlorobenzene-d4 | 13.42 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 55   |
| 2    |    | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 53   |
| 3    |    | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 53   |
| 4    |    | p-Cymene                            | 134 | C10H14  | 000099-87-6 | 49   |
| 5    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 49   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Benzene, 1-ethyl-... | 14.67 | 9.2     | ug/l  | 291629   | 4                     | 13.42 | 1591040 | 50.0 |