

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM032219\  
 Data File : BM019334.D  
 Acq On : 23 Mar 2019 04:12  
 Operator : JU/SJ  
 Sample : K2025-01  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0972

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
 Title : SVOA CALIBRATION

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         | 3.152       | 26            | 28          | 33           | rVB      | 23646          | 25379         | 0.65%           | 0.074%        |
| 2         | 3.752       | 128           | 130         | 136          | rVB4     | 9262           | 11592         | 0.30%           | 0.034%        |
| 3         | 4.228       | 208           | 211         | 213          | rBV3     | 5209           | 7239          | 0.19%           | 0.021%        |
| 4         | 4.246       | 213           | 214         | 218          | rVB2     | 7199           | 8054          | 0.21%           | 0.023%        |
| 5         | 5.887       | 487           | 493         | 497          | rBV5     | 2016           | 3957          | 0.10%           | 0.011%        |
| 6         | 6.698       | 627           | 631         | 635          | rVB2     | 9158           | 11379         | 0.29%           | 0.033%        |
| 7         | 6.798       | 642           | 648         | 663          | rBV      | 93165          | 212159        | 5.44%           | 0.615%        |
| 8         | 6.963       | 670           | 676         | 692          | rBV      | 393650         | 724589        | 18.57%          | 2.099%        |
| 9         | 7.146       | 701           | 707         | 724          | rBV      | 465187         | 793001        | 20.32%          | 2.297%        |
| 10        | 7.610       | 780           | 786         | 795          | rBV      | 522916         | 883770        | 22.64%          | 2.560%        |
| 11        | 7.681       | 796           | 798         | 805          | rVB2     | 14798          | 19281         | 0.49%           | 0.056%        |
| 12        | 8.328       | 902           | 908         | 925          | rBV      | 311718         | 597878        | 15.32%          | 1.732%        |
| 13        | 8.457       | 927           | 930         | 937          | rVB5     | 6811           | 11321         | 0.29%           | 0.033%        |
| 14        | 8.710       | 968           | 973         | 979          | rBV      | 89974          | 149810        | 3.84%           | 0.434%        |
| 15        | 8.781       | 979           | 985         | 994          | rVV      | 527949         | 922921        | 23.65%          | 2.674%        |
| 16        | 8.851       | 994           | 997         | 1004         | rVV3     | 16994          | 41178         | 1.06%           | 0.119%        |
| 17        | 8.934       | 1007          | 1011        | 1017         | rVB4     | 11586          | 18648         | 0.48%           | 0.054%        |
| 18        | 9.116       | 1037          | 1042        | 1047         | rVB      | 31354          | 46209         | 1.18%           | 0.134%        |
| 19        | 9.498       | 1100          | 1107        | 1118         | rBV      | 420309         | 735578        | 18.85%          | 2.131%        |
| 20        | 10.028      | 1191          | 1197        | 1219         | rBV      | 466863         | 1094427       | 28.04%          | 3.171%        |
| 21        | 10.345      | 1243          | 1251        | 1253         | rBV7     | 22073          | 42386         | 1.09%           | 0.123%        |
| 22        | 10.392      | 1253          | 1259        | 1268         | rVV      | 761040         | 1324983       | 33.95%          | 3.839%        |
| 23        | 10.457      | 1268          | 1270        | 1278         | rVB4     | 11001          | 19546         | 0.50%           | 0.057%        |
| 24        | 10.963      | 1351          | 1356        | 1358         | rBV2     | 3594           | 6303          | 0.16%           | 0.018%        |
| 25        | 11.604      | 1460          | 1465        | 1471         | rVB4     | 29087          | 44343         | 1.14%           | 0.128%        |
| 26        | 11.728      | 1479          | 1486        | 1501         | rBV2     | 50816          | 134586        | 3.45%           | 0.390%        |
| 27        | 12.010      | 1528          | 1534        | 1536         | rBV5     | 6846           | 11041         | 0.28%           | 0.032%        |
| 28        | 12.898      | 1681          | 1685        | 1688         | rBV      | 3180           | 4017          | 0.10%           | 0.012%        |
| 29        | 13.116      | 1718          | 1722        | 1727         | rVB2     | 2741           | 4593          | 0.12%           | 0.013%        |
| 30        | 13.216      | 1734          | 1739        | 1756         | rBV      | 146273         | 346399        | 8.88%           | 1.004%        |
| 31        | 13.627      | 1806          | 1809        | 1813         | rBV2     | 4381           | 5956          | 0.15%           | 0.017%        |
| 32        | 13.692      | 1814          | 1820        | 1833         | rVB      | 1252852        | 1843161       | 47.23%          | 5.340%        |
| 33        | 13.963      | 1860          | 1866        | 1880         | rBV      | 1477593        | 2117817       | 54.26%          | 6.136%        |
| 34        | 14.180      | 1900          | 1903        | 1909         | rBV2     | 3561           | 6502          | 0.17%           | 0.019%        |

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Filtering: 5  
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 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 14.269 | 1912 | 1918 | 1930 | rVV2 | 1042944 | 1645029 | 42.15%  | 4.766%  |
| 36 | 14.357 | 1930 | 1933 | 1937 | rVB3 | 11443   | 14938   | 0.38%   | 0.043%  |
| 37 | 14.545 | 1959 | 1965 | 1969 | rBV4 | 16276   | 33776   | 0.87%   | 0.098%  |
| 38 | 14.957 | 2029 | 2035 | 2040 | rVB3 | 20641   | 30688   | 0.79%   | 0.089%  |
| 39 | 15.069 | 2048 | 2054 | 2057 | rBV3 | 3269    | 4453    | 0.11%   | 0.013%  |
| 40 | 15.110 | 2057 | 2061 | 2064 | rBV3 | 3265    | 4446    | 0.11%   | 0.013%  |
| 41 | 15.269 | 2082 | 2088 | 2100 | rVV  | 1766552 | 2618589 | 67.09%  | 7.586%  |
| 42 | 15.410 | 2107 | 2112 | 2125 | rBV  | 429613  | 713324  | 18.28%  | 2.067%  |
| 43 | 15.516 | 2125 | 2130 | 2135 | rVB4 | 20650   | 31594   | 0.81%   | 0.092%  |
| 44 | 15.651 | 2148 | 2153 | 2159 | rVB3 | 5213    | 8172    | 0.21%   | 0.024%  |
| 45 | 16.063 | 2219 | 2223 | 2228 | rVB4 | 5783    | 8668    | 0.22%   | 0.025%  |
| 46 | 16.827 | 2349 | 2353 | 2358 | rVB2 | 3059    | 5348    | 0.14%   | 0.015%  |
| 47 | 17.027 | 2381 | 2387 | 2396 | rBV2 | 1273064 | 1791927 | 45.91%  | 5.191%  |
| 48 | 17.127 | 2398 | 2404 | 2426 | rVB2 | 1920097 | 2908610 | 74.52%  | 8.427%  |
| 49 | 17.692 | 2494 | 2500 | 2505 | rBV2 | 322759  | 395710  | 10.14%  | 1.146%  |
| 50 | 17.927 | 2536 | 2540 | 2551 | rBV5 | 14617   | 35336   | 0.91%   | 0.102%  |
| 51 | 18.721 | 2671 | 2675 | 2678 | rBV6 | 2621    | 4374    | 0.11%   | 0.013%  |
| 52 | 18.974 | 2715 | 2718 | 2719 | rBV3 | 3458    | 4145    | 0.11%   | 0.012%  |
| 53 | 19.074 | 2729 | 2735 | 2742 | rBV4 | 15816   | 29934   | 0.77%   | 0.087%  |
| 54 | 19.215 | 2755 | 2759 | 2764 | rBV6 | 13628   | 24045   | 0.62%   | 0.070%  |
| 55 | 19.327 | 2773 | 2778 | 2781 | rBV2 | 14568   | 19275   | 0.49%   | 0.056%  |
| 56 | 19.433 | 2790 | 2796 | 2807 | rBV  | 2481548 | 3361658 | 86.13%  | 9.739%  |
| 57 | 20.339 | 2948 | 2950 | 2952 | rBV3 | 8308    | 7944    | 0.20%   | 0.023%  |
| 58 | 21.233 | 3097 | 3102 | 3113 | rBV  | 1567772 | 2186753 | 56.03%  | 6.335%  |
| 59 | 22.250 | 3273 | 3275 | 3281 | rVB  | 68642   | 87325   | 2.24%   | 0.253%  |
| 60 | 23.309 | 3448 | 3455 | 3467 | rBV2 | 2153913 | 3902881 | 100.00% | 11.307% |
| 61 | 23.450 | 3473 | 3479 | 3491 | rVB  | 1146194 | 2220488 | 56.89%  | 6.433%  |
| 62 | 23.944 | 3558 | 3563 | 3569 | rVB2 | 96371   | 187187  | 4.80%   | 0.542%  |

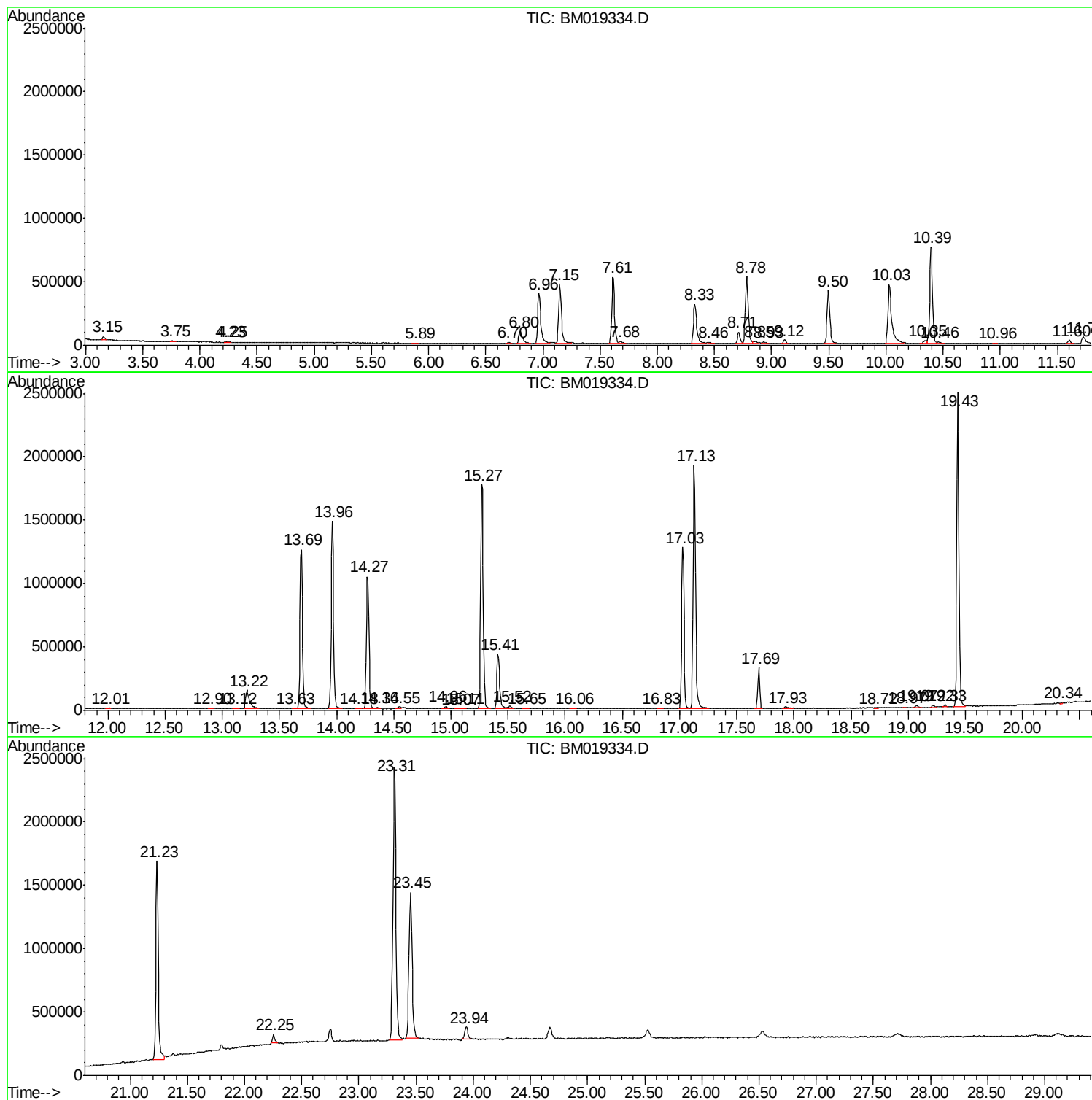
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BNA\_M  
ClientSampleId :  
C0972

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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C0972

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

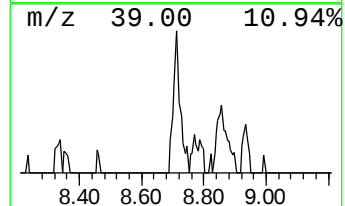
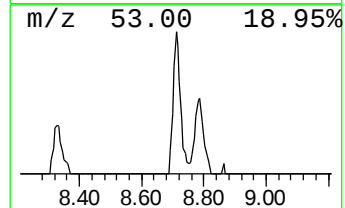
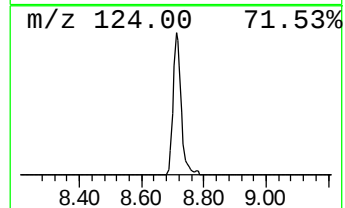
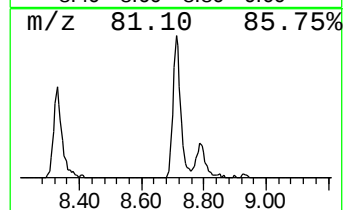
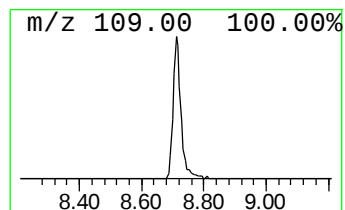
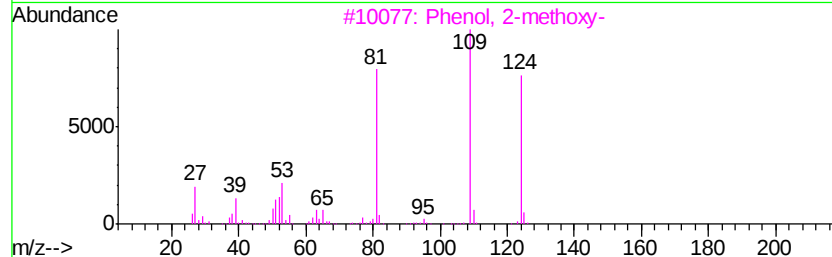
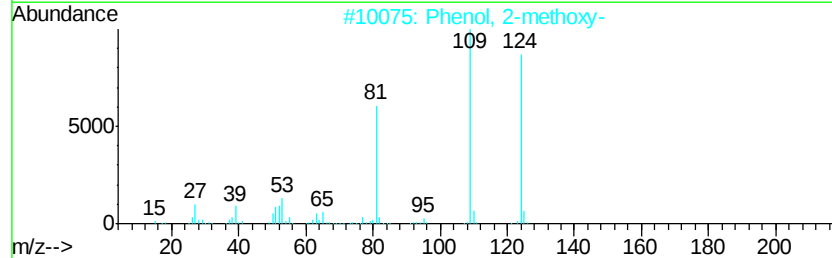
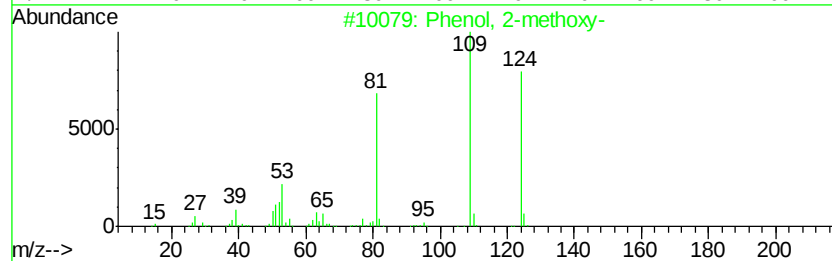
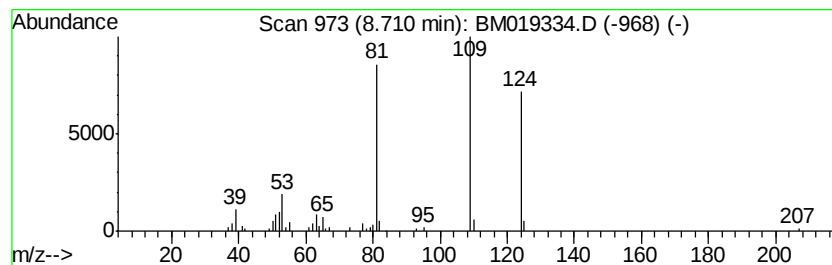
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Phenol, 2-methoxy- Concentration Rank 3

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 8.71 | 3.39 ng/ul | 149810 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# of | 5                  | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------|--------------|-----|---------|-------------|------|
| 1       | Phenol, 2-methoxy- |              | 124 | C7H8O2  | 000090-05-1 | 93   |
| 2       | Phenol, 2-methoxy- |              | 124 | C7H8O2  | 000090-05-1 | 91   |
| 3       | Phenol, 2-methoxy- |              | 124 | C7H8O2  | 000090-05-1 | 91   |
| 4       | Mequinol           |              | 124 | C7H8O2  | 000150-76-5 | 90   |
| 5       | Mequinol           |              | 124 | C7H8O2  | 000150-76-5 | 87   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

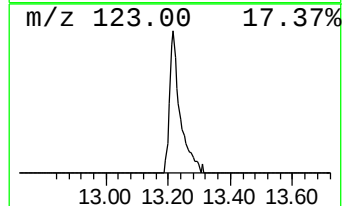
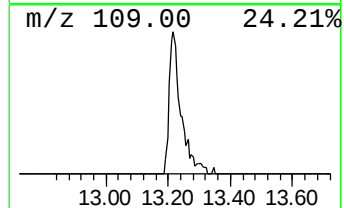
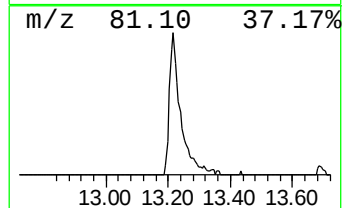
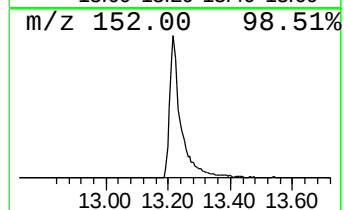
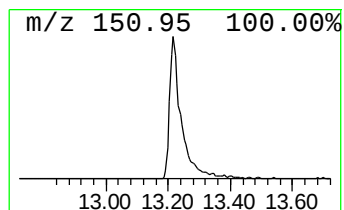
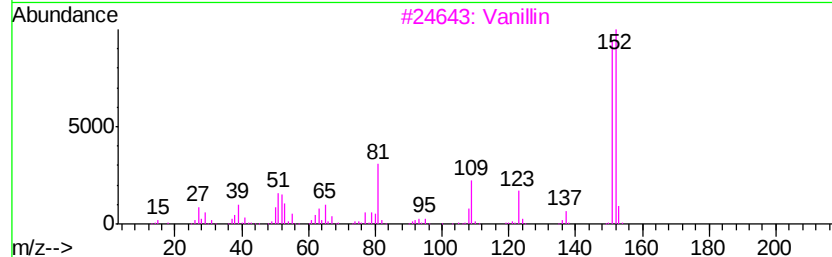
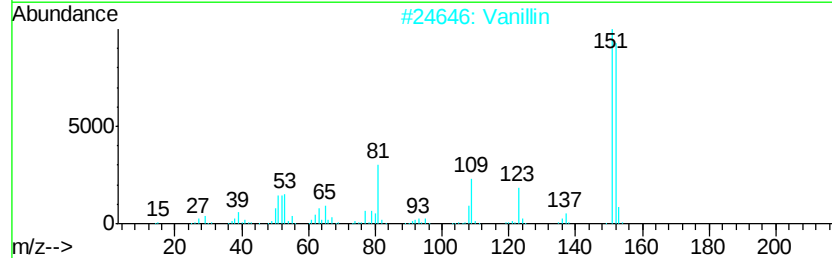
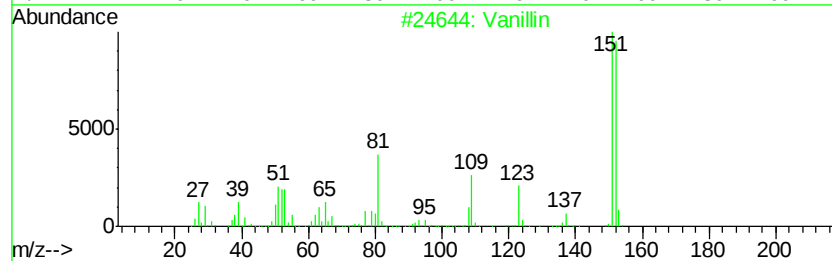
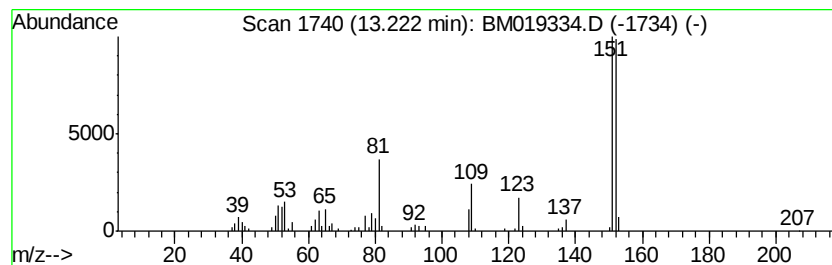
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Vanillin Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 13.22 | 4.21 ng/ul | 346399 | Acenaphthene-d10 | 14.27 |

| Hit# of | 5                                  | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------------------------|--------------|-----|---------|-------------|------|
| 1       | Vanillin                           |              | 152 | C8H8O3  | 000121-33-5 | 97   |
| 2       | Vanillin                           |              | 152 | C8H8O3  | 000121-33-5 | 96   |
| 3       | Vanillin                           |              | 152 | C8H8O3  | 000121-33-5 | 95   |
| 4       | Benzaldehyde, 3-hydroxy-4-methoxy- |              | 152 | C8H8O3  | 000621-59-0 | 95   |
| 5       | Benzaldehyde, 3-hydroxy-4-methoxy- |              | 152 | C8H8O3  | 000621-59-0 | 95   |



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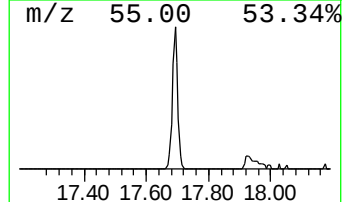
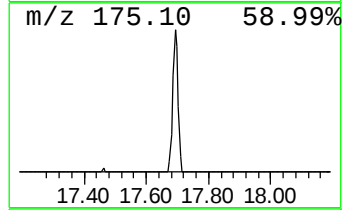
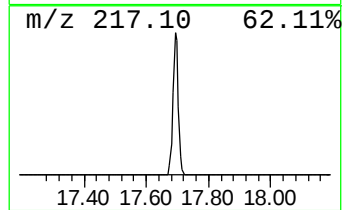
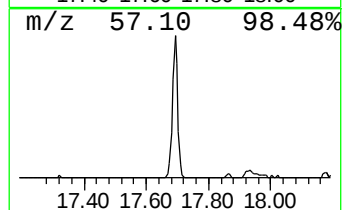
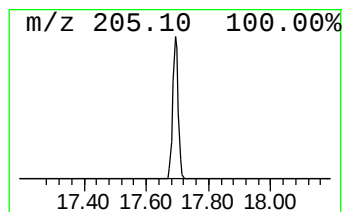
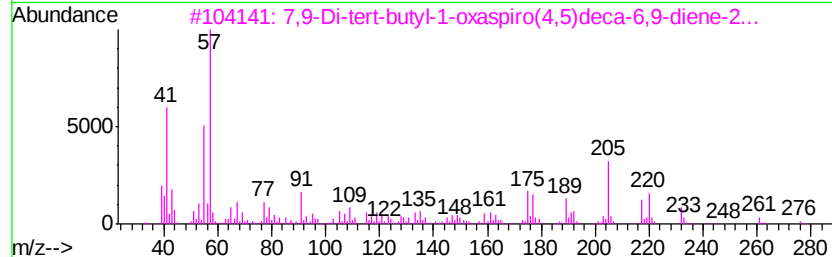
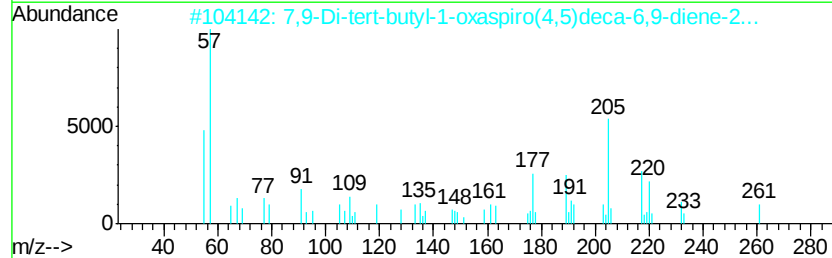
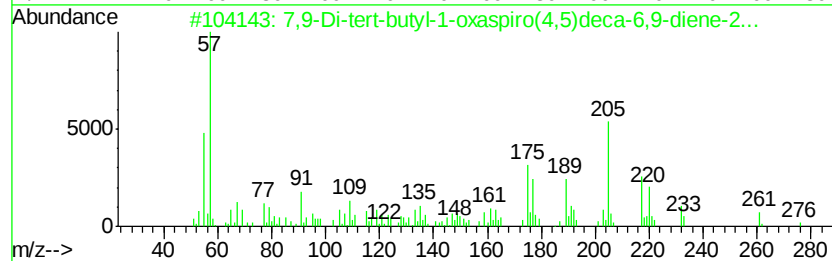
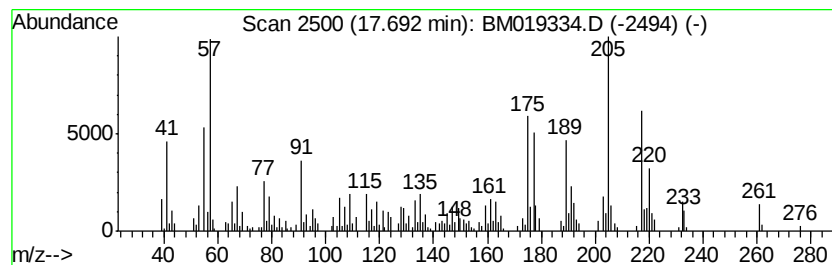
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TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 7,9-Di-tert-butyl-1-oxaspiro... Concentration Rank 1

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 17.69     | 4.42 ng/ul                          | 395710 | Phenanthrene-d10 | 17.03       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 7,9-Di-tert-butyl-1-oxaspiro(4,5... | 276    | C17H24O3         | 082304-66-3 | 99   |
| 2         | 7,9-Di-tert-butyl-1-oxaspiro(4,5... | 276    | C17H24O3         | 082304-66-3 | 90   |
| 3         | 7,9-Di-tert-butyl-1-oxaspiro(4,5... | 276    | C17H24O3         | 082304-66-3 | 70   |
| 4         | Ethanone, 1-(5,6,7,8-tetrahydro-... | 220    | C14H20O2         | 071596-88-8 | 45   |
| 5         | 2,5-Cyclohexadien-1-one, 2,6-bis... | 232    | C16H24O          | 006738-27-8 | 42   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Phenol, 2-methoxy-   | 8.71  | 3.4     | ng/ul | 149810   | 1                     | 7.62  | 883770  | 20.0 |
| Vanillin             | 13.22 | 4.2     | ng/ul | 346399   | 3                     | 14.27 | 1645030 | 20.0 |
| 7,9-Di-tert-butyl... | 17.69 | 4.4     | ng/ul | 395710   | 4                     | 17.03 | 1791930 | 20.0 |