

Data Path : Z:\HPCHEM1\BNA M\DATA\BM072815\  
 Data File : BM002115.D  
 Acq On : 29 Jul 2015 04:41  
 Operator : TP/UM  
 Sample : G3048-22  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C02L1

## 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:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM072715.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         | 2.769       | 9             | 14          | 18           | rBV2     | 8437           | 12865         | 1.25%           | 0.133%        |
| 2         | 2.799       | 18            | 19          | 24           | rVV2     | 3970           | 4821          | 0.47%           | 0.050%        |
| 3         | 2.852       | 26            | 28          | 35           | rVB2     | 4357           | 6700          | 0.65%           | 0.069%        |
| 4         | 3.587       | 149           | 153         | 158          | rBV2     | 8702           | 11016         | 1.07%           | 0.114%        |
| 5         | 3.799       | 185           | 189         | 195          | rBB      | 7185           | 9980          | 0.97%           | 0.103%        |
| 6         | 5.246       | 430           | 435         | 443          | rBB      | 8467           | 16072         | 1.56%           | 0.166%        |
| 7         | 5.610       | 491           | 497         | 501          | rBB3     | 7618           | 12020         | 1.17%           | 0.124%        |
| 8         | 6.687       | 676           | 680         | 683          | rBB      | 3986           | 4778          | 0.47%           | 0.049%        |
| 9         | 6.745       | 683           | 690         | 691          | rBV4     | 6398           | 9348          | 0.91%           | 0.097%        |
| 10        | 6.781       | 691           | 696         | 706          | rVB      | 70740          | 111872        | 10.89%          | 1.155%        |
| 11        | 6.940       | 714           | 723         | 734          | rBV      | 53985          | 87348         | 8.50%           | 0.902%        |
| 12        | 7.069       | 740           | 745         | 749          | rBV2     | 8388           | 12647         | 1.23%           | 0.131%        |
| 13        | 7.134       | 749           | 756         | 765          | rVB      | 75220          | 119168        | 11.60%          | 1.231%        |
| 14        | 7.210       | 765           | 769         | 772          | rBV2     | 4045           | 5730          | 0.56%           | 0.059%        |
| 15        | 7.240       | 772           | 774         | 780          | rVB      | 5880           | 6749          | 0.66%           | 0.070%        |
| 16        | 7.598       | 826           | 835         | 841          | rVB      | 219302         | 338571        | 32.96%          | 3.497%        |
| 17        | 7.710       | 849           | 854         | 860          | rBV3     | 3210           | 5077          | 0.49%           | 0.052%        |
| 18        | 8.128       | 919           | 925         | 931          | rVB4     | 3361           | 7778          | 0.76%           | 0.080%        |
| 19        | 8.239       | 938           | 944         | 952          | rVB4     | 4061           | 8514          | 0.83%           | 0.088%        |
| 20        | 8.316       | 952           | 957         | 965          | rBV      | 57960          | 93367         | 9.09%           | 0.964%        |
| 21        | 8.422       | 970           | 975         | 980          | rBV3     | 14086          | 24276         | 2.36%           | 0.251%        |
| 22        | 8.592       | 1001          | 1004        | 1009         | rVB      | 3265           | 4464          | 0.43%           | 0.046%        |
| 23        | 8.687       | 1012          | 1020        | 1027         | rVV5     | 5940           | 13612         | 1.33%           | 0.141%        |
| 24        | 8.757       | 1027          | 1032        | 1039         | rVV      | 64670          | 107718        | 10.49%          | 1.113%        |
| 25        | 8.810       | 1039          | 1041        | 1046         | rVV2     | 6793           | 9754          | 0.95%           | 0.101%        |
| 26        | 8.934       | 1060          | 1062        | 1067         | rVB3     | 3474           | 4937          | 0.48%           | 0.051%        |
| 27        | 9.228       | 1107          | 1112        | 1116         | rBV5     | 3346           | 6959          | 0.68%           | 0.072%        |
| 28        | 9.298       | 1122          | 1124        | 1128         | rVB3     | 4757           | 5947          | 0.58%           | 0.061%        |
| 29        | 9.475       | 1147          | 1154        | 1163         | rBV2     | 39638          | 72210         | 7.03%           | 0.746%        |
| 30        | 9.557       | 1163          | 1168        | 1178         | rVB5     | 6895           | 13919         | 1.35%           | 0.144%        |
| 31        | 9.639       | 1178          | 1182        | 1190         | rVB4     | 3418           | 7072          | 0.69%           | 0.073%        |
| 32        | 9.728       | 1190          | 1197        | 1202         | rBV3     | 2966           | 5021          | 0.49%           | 0.052%        |
| 33        | 9.786       | 1202          | 1207        | 1210         | rBV3     | 4396           | 7562          | 0.74%           | 0.078%        |
| 34        | 10.016      | 1241          | 1246        | 1254         | rVB      | 84210          | 134062        | 13.05%          | 1.385%        |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 10.251 | 1281 | 1286 | 1291 | rBV4 | 7290   | 13275  | 1.29%  | 0.137% |
| 36 | 10.386 | 1299 | 1309 | 1315 | rBV  | 289385 | 497644 | 48.44% | 5.140% |
| 37 | 10.433 | 1315 | 1317 | 1323 | rVB  | 12607  | 18225  | 1.77%  | 0.188% |
| 38 | 10.533 | 1329 | 1334 | 1345 | rVB2 | 40141  | 67260  | 6.55%  | 0.695% |
| 39 | 10.863 | 1386 | 1390 | 1396 | rVB2 | 4075   | 6417   | 0.62%  | 0.066% |
| 40 | 10.933 | 1396 | 1402 | 1407 | rVB3 | 3563   | 6753   | 0.66%  | 0.070% |
| 41 | 11.075 | 1422 | 1426 | 1429 | rVB4 | 6204   | 8219   | 0.80%  | 0.085% |
| 42 | 11.139 | 1429 | 1437 | 1441 | rVB5 | 2951   | 5515   | 0.54%  | 0.057% |
| 43 | 11.216 | 1444 | 1450 | 1452 | rBV2 | 3756   | 7185   | 0.70%  | 0.074% |
| 44 | 11.298 | 1456 | 1464 | 1469 | rVB5 | 4434   | 11618  | 1.13%  | 0.120% |
| 45 | 11.398 | 1476 | 1481 | 1490 | rBV4 | 14405  | 31898  | 3.11%  | 0.329% |
| 46 | 11.669 | 1523 | 1527 | 1529 | rVB4 | 3725   | 5428   | 0.53%  | 0.056% |
| 47 | 11.786 | 1542 | 1547 | 1548 | rBV2 | 3333   | 4551   | 0.44%  | 0.047% |
| 48 | 11.810 | 1548 | 1551 | 1556 | rVB2 | 8563   | 12445  | 1.21%  | 0.129% |
| 49 | 12.057 | 1588 | 1593 | 1599 | rVB  | 18617  | 30974  | 3.02%  | 0.320% |
| 50 | 12.122 | 1599 | 1604 | 1610 | rBV3 | 5274   | 10225  | 1.00%  | 0.106% |
| 51 | 12.222 | 1617 | 1621 | 1624 | rVB4 | 4533   | 7013   | 0.68%  | 0.072% |
| 52 | 12.286 | 1624 | 1632 | 1634 | rBV2 | 10211  | 18888  | 1.84%  | 0.195% |
| 53 | 12.451 | 1655 | 1660 | 1662 | rVV4 | 4828   | 7117   | 0.69%  | 0.074% |
| 54 | 12.598 | 1682 | 1685 | 1689 | rVV5 | 9234   | 11892  | 1.16%  | 0.123% |
| 55 | 12.633 | 1689 | 1691 | 1695 | rVV6 | 4203   | 6637   | 0.65%  | 0.069% |
| 56 | 12.674 | 1695 | 1698 | 1702 | rVV5 | 7936   | 11319  | 1.10%  | 0.117% |
| 57 | 12.733 | 1704 | 1708 | 1711 | rVV4 | 6496   | 11249  | 1.10%  | 0.116% |
| 58 | 12.780 | 1711 | 1716 | 1721 | rVB  | 23471  | 36763  | 3.58%  | 0.380% |
| 59 | 12.851 | 1721 | 1728 | 1732 | rBV4 | 13348  | 25551  | 2.49%  | 0.264% |
| 60 | 13.022 | 1752 | 1757 | 1761 | rBV3 | 17384  | 28360  | 2.76%  | 0.293% |
| 61 | 13.169 | 1779 | 1782 | 1784 | rBV3 | 5692   | 6505   | 0.63%  | 0.067% |
| 62 | 13.421 | 1821 | 1825 | 1828 | rBV5 | 8754   | 13832  | 1.35%  | 0.143% |
| 63 | 13.574 | 1847 | 1851 | 1858 | rBV7 | 13859  | 23248  | 2.26%  | 0.240% |
| 64 | 13.633 | 1858 | 1861 | 1863 | rBV3 | 7965   | 10097  | 0.98%  | 0.104% |
| 65 | 13.674 | 1863 | 1868 | 1872 | rVV  | 188628 | 258497 | 25.16% | 2.670% |
| 66 | 13.721 | 1872 | 1876 | 1882 | rVB2 | 70821  | 136504 | 13.29% | 1.410% |
| 67 | 13.786 | 1882 | 1887 | 1891 | rBV7 | 13370  | 27171  | 2.65%  | 0.281% |
| 68 | 13.898 | 1902 | 1906 | 1910 | rBV5 | 12191  | 19462  | 1.89%  | 0.201% |
| 69 | 13.951 | 1910 | 1915 | 1920 | rBV  | 152159 | 234702 | 22.85% | 2.424% |
| 70 | 14.039 | 1928 | 1930 | 1933 | rVB4 | 8592   | 8105   | 0.79%  | 0.084% |
| 71 | 14.080 | 1933 | 1937 | 1943 | rVB3 | 43941  | 67392  | 6.56%  | 0.696% |

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Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM072715.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |       |        |         |         |         |
|-----|--------|------|------|------|-------|--------|---------|---------|---------|
| 72  | 14.157 | 1945 | 1950 | 1955 | rBV2  | 29786  | 48818   | 4.75%   | 0.504%  |
| 73  | 14.216 | 1956 | 1960 | 1962 | rBV3  | 21691  | 31734   | 3.09%   | 0.328%  |
| 74  | 14.263 | 1962 | 1968 | 1975 | rVV2  | 439728 | 664905  | 64.73%  | 6.867%  |
| 75  | 14.327 | 1975 | 1979 | 1986 | rVV5  | 14975  | 38929   | 3.79%   | 0.402%  |
| 76  | 14.416 | 1992 | 1994 | 1997 | rBV4  | 6360   | 9309    | 0.91%   | 0.096%  |
| 77  | 14.492 | 2001 | 2007 | 2016 | rVB3  | 35508  | 74406   | 7.24%   | 0.768%  |
| 78  | 14.663 | 2033 | 2036 | 2040 | rVB3  | 19309  | 25601   | 2.49%   | 0.264%  |
| 79  | 14.780 | 2052 | 2056 | 2063 | rBV5  | 24570  | 42760   | 4.16%   | 0.442%  |
| 80  | 14.886 | 2071 | 2074 | 2075 | rBV3  | 13627  | 12316   | 1.20%   | 0.127%  |
| 81  | 14.974 | 2085 | 2089 | 2096 | rBV10 | 17715  | 35417   | 3.45%   | 0.366%  |
| 82  | 15.045 | 2097 | 2101 | 2105 | rBV5  | 33801  | 50452   | 4.91%   | 0.521%  |
| 83  | 15.110 | 2110 | 2112 | 2116 | rVV   | 24532  | 31574   | 3.07%   | 0.326%  |
| 84  | 15.257 | 2132 | 2137 | 2142 | rVB   | 187855 | 268730  | 26.16%  | 2.775%  |
| 85  | 15.521 | 2178 | 2182 | 2189 | rVB2  | 62476  | 92064   | 8.96%   | 0.951%  |
| 86  | 15.998 | 2256 | 2263 | 2268 | rBV   | 176118 | 315269  | 30.69%  | 3.256%  |
| 87  | 16.768 | 2392 | 2394 | 2398 | rVB2  | 33320  | 31690   | 3.08%   | 0.327%  |
| 88  | 16.821 | 2399 | 2403 | 2407 | rVB2  | 111013 | 149757  | 14.58%  | 1.547%  |
| 89  | 17.015 | 2430 | 2436 | 2440 | rBV2  | 521622 | 786036  | 76.52%  | 8.118%  |
| 90  | 17.057 | 2440 | 2443 | 2447 | rVB   | 126304 | 158973  | 15.48%  | 1.642%  |
| 91  | 17.109 | 2448 | 2452 | 2456 | rBV2  | 196718 | 261619  | 25.47%  | 2.702%  |
| 92  | 18.080 | 2615 | 2617 | 2622 | rVB3  | 95771  | 112710  | 10.97%  | 1.164%  |
| 93  | 18.633 | 2708 | 2711 | 2715 | rVB2  | 112472 | 129752  | 12.63%  | 1.340%  |
| 94  | 19.080 | 2783 | 2787 | 2791 | rBV   | 266729 | 351068  | 34.18%  | 3.626%  |
| 95  | 19.133 | 2793 | 2796 | 2801 | rVB   | 215213 | 277696  | 27.03%  | 2.868%  |
| 96  | 19.221 | 2808 | 2811 | 2816 | rVB   | 165382 | 210877  | 20.53%  | 2.178%  |
| 97  | 19.415 | 2840 | 2844 | 2847 | rBV   | 298221 | 449122  | 43.72%  | 4.639%  |
| 98  | 19.933 | 2929 | 2932 | 2939 | rBV5  | 160477 | 230739  | 22.46%  | 2.383%  |
| 99  | 21.215 | 3145 | 3150 | 3153 | rBV2  | 714020 | 1027239 | 100.00% | 10.609% |
| 100 | 23.421 | 3521 | 3525 | 3531 | rVB   | 487887 | 752876  | 73.29%  | 7.776%  |

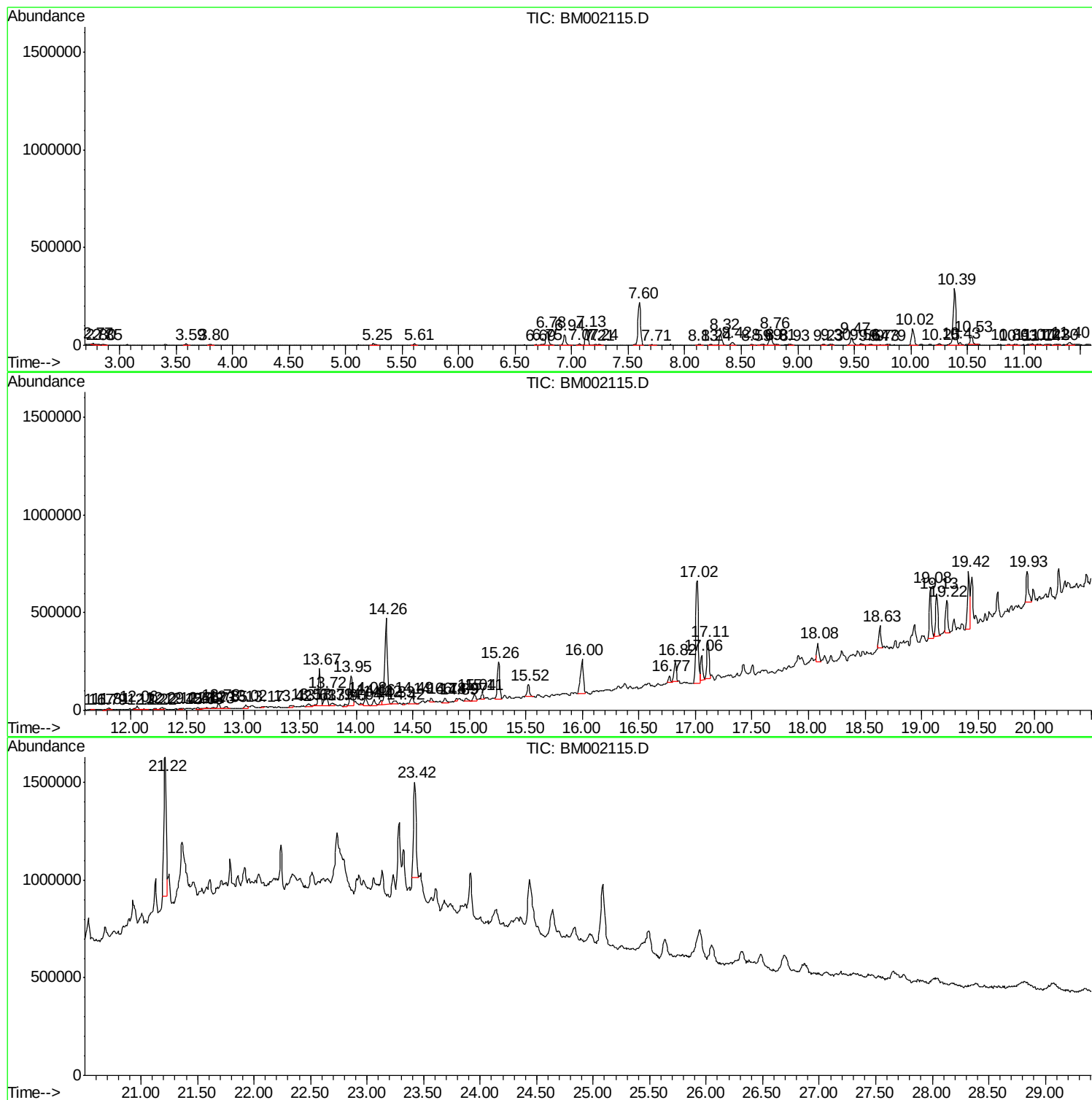
Sum of corrected areas: 9682308

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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072715.M  
Quant Title : SVOA CALIBRATION

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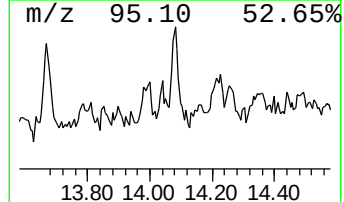
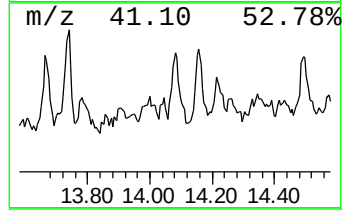
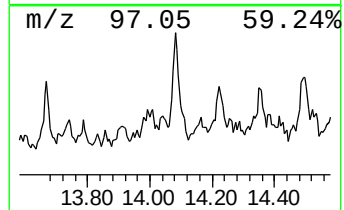
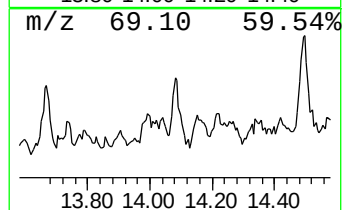
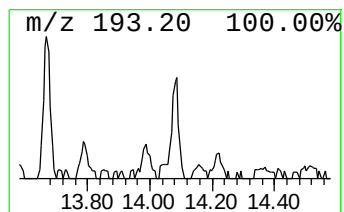
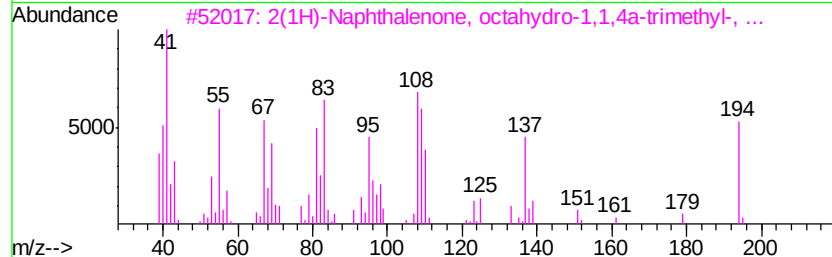
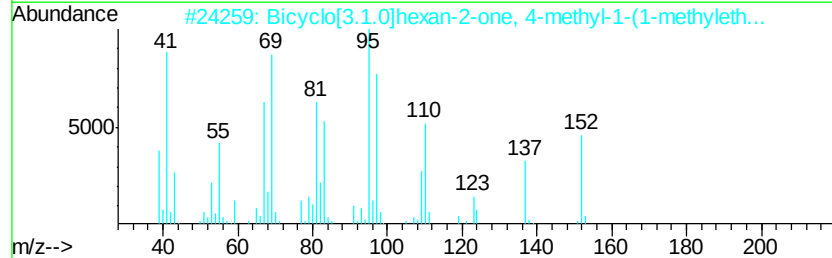
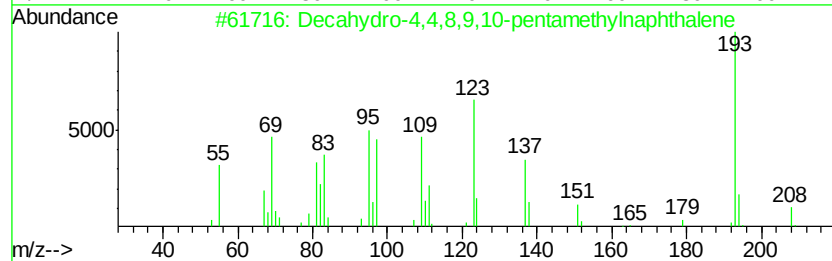
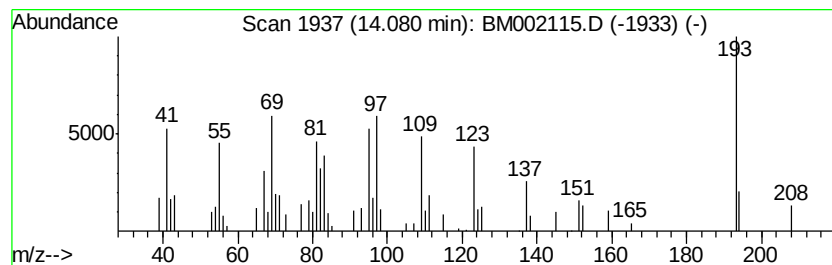
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Decahydro-4,4,8,9,10-pentam... Concentration Rank 9

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 14.08 | 2.03 ng/ul | 67392 | Acenaphthene-d10 | 14.26 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Decahydro-4,4,8,9,10-pentamethyl... | 208 | C15H28    | 080655-44-3 | 97   |
| 2    |    | Bicyclo[3.1.0]hexan-2-one, 4-met... | 152 | C10H16O   | 002506-61-8 | 38   |
| 3    |    | 2(1H)-Naphthalenone, octahydro-1... | 194 | C13H22O   | 000775-54-2 | 22   |
| 4    |    | 6-Acetamido-1,4-benzodioxane        | 193 | C10H11NO3 | 063546-19-0 | 22   |
| 5    |    | Borinic acid, diethyl-, 3,3,5-tr... | 208 | C13H25BO  | 057387-76-5 | 22   |



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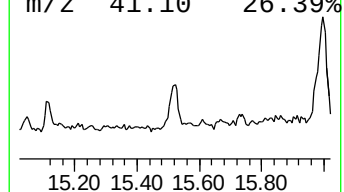
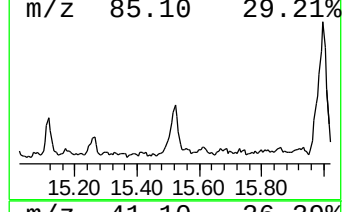
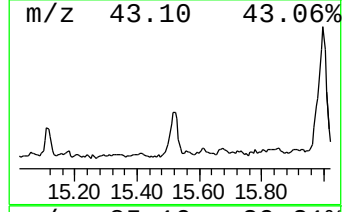
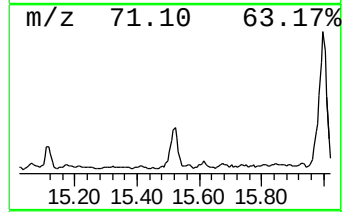
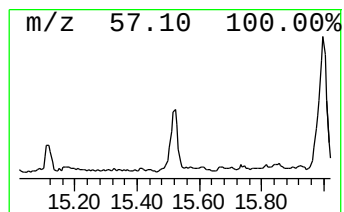
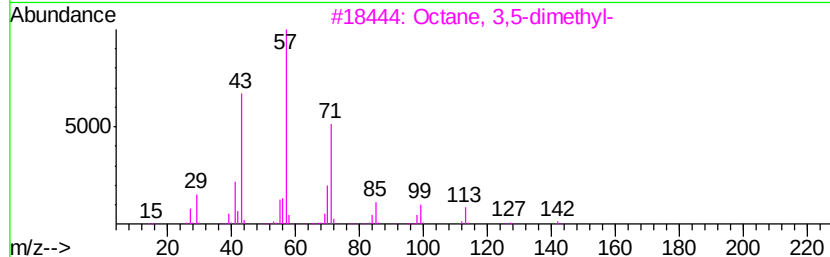
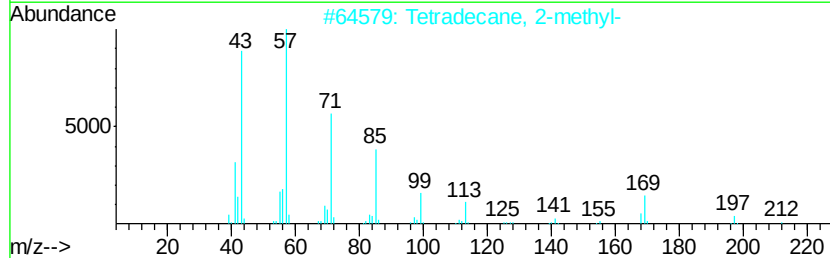
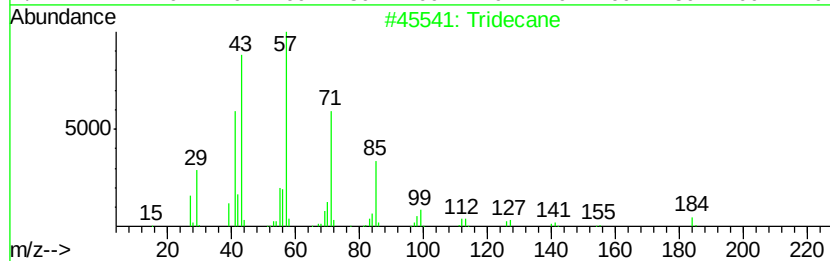
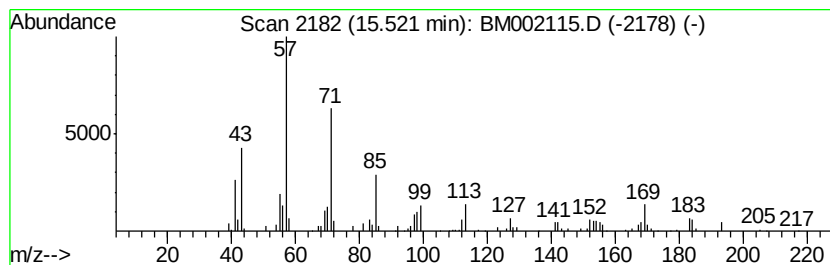
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\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T.    | EstConc                | Area         | Relative to ISTD | R.T.      |
|---------|------------------------|--------------|------------------|-----------|
| 15.52   | 2.77 ng/ul             | 92064        | Acenaphthene-d10 | 14.26     |
| Hit# of | 5                      | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Tridecane              | 184 C13H28   | 000629-50-5      | 72        |
| 2       | Tetradecane, 2-methyl- | 212 C15H32   | 001560-95-8      | 72        |
| 3       | Octane, 3,5-dimethyl-  | 142 C10H22   | 015869-93-9      | 64        |
| 4       | Heptacosane            | 380 C27H56   | 000593-49-7      | 59        |
| 5       | Dodecane               | 170 C12H26   | 000112-40-3      | 58        |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM072815\  
Data File : BM002115.D  
Acq On : 29 Jul 2015 04:41  
Operator : TP/UM  
Sample : G3048-22  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C02L1

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072715.M  
Quant Title : SVOA CALIBRATION

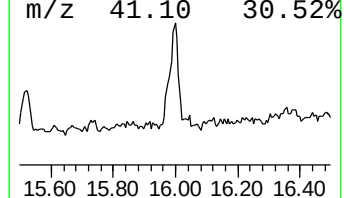
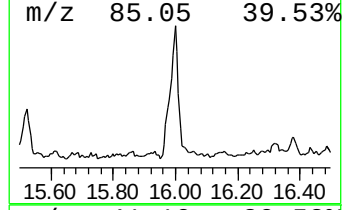
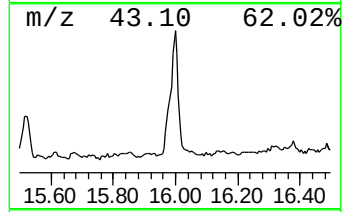
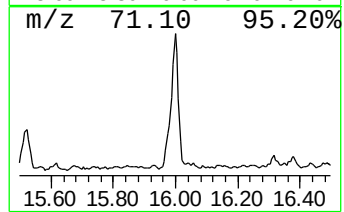
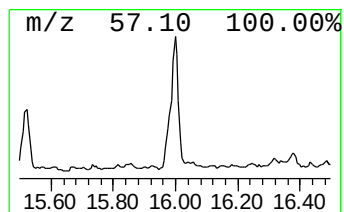
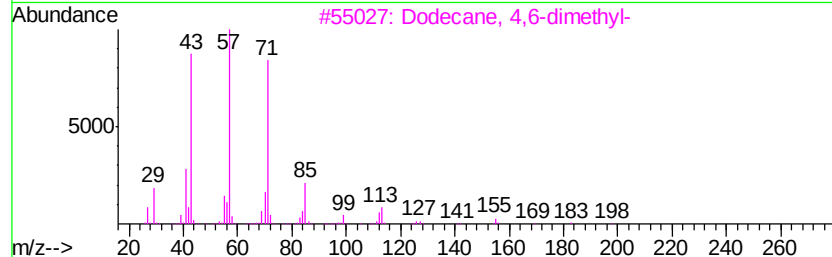
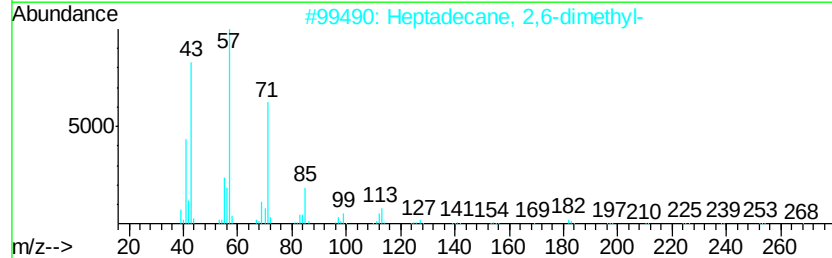
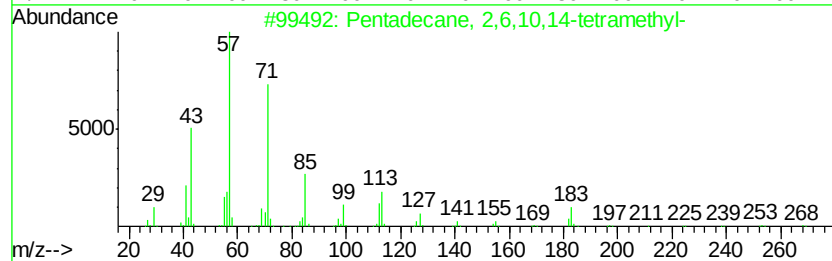
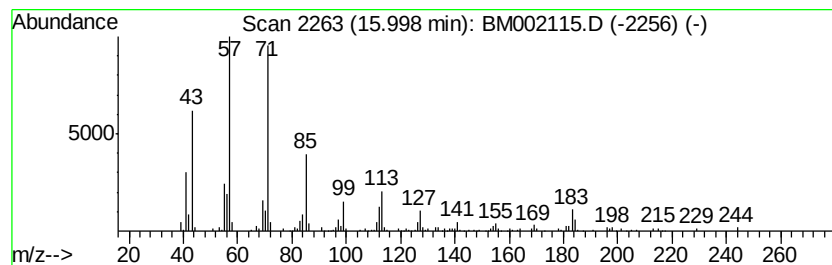
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.00 | 8.02 ng/ul | 315269 | Phenanthrene-d10 | 17.01 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40  | 001921-70-6 | 91   |
| 2    |    | Heptadecane, 2,6-dimethyl-          | 268 | C19H40  | 054105-67-8 | 90   |
| 3    |    | Dodecane, 4,6-dimethyl-             | 198 | C14H30  | 061141-72-8 | 87   |
| 4    |    | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40  | 001921-70-6 | 87   |
| 5    |    | Decane, 2-methyl-                   | 156 | C11H24  | 006975-98-0 | 80   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM072815\  
Data File : BM002115.D  
Acq On : 29 Jul 2015 04:41  
Operator : TP/UM  
Sample : G3048-22  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C02L1

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072715.M  
Quant Title : SVOA CALIBRATION

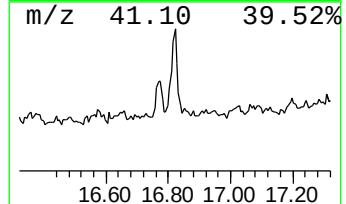
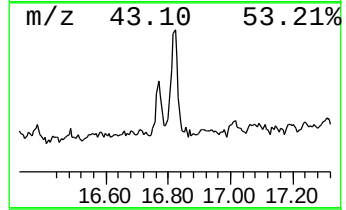
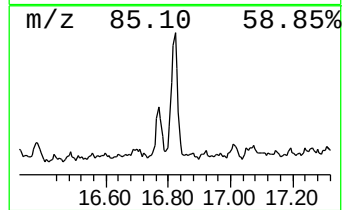
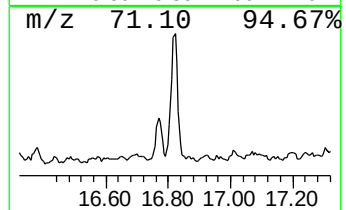
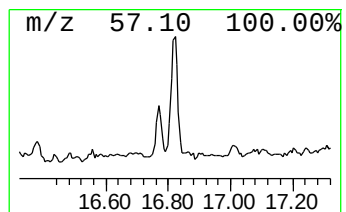
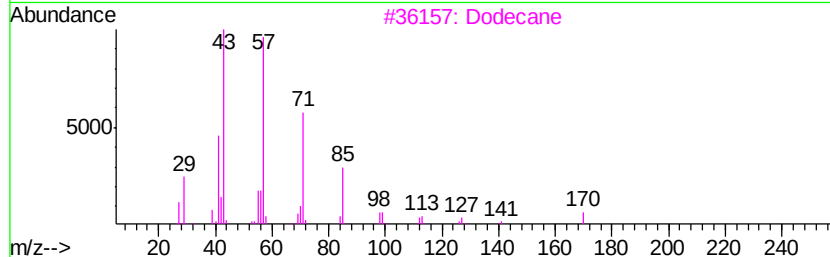
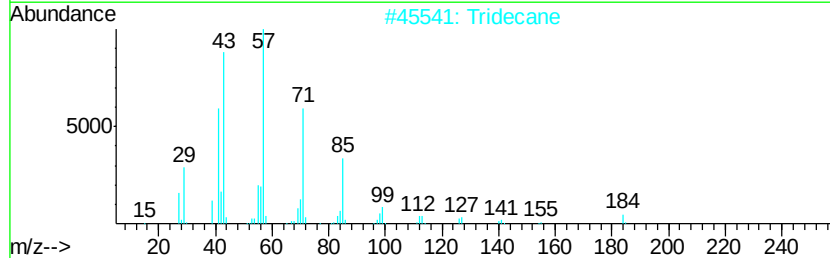
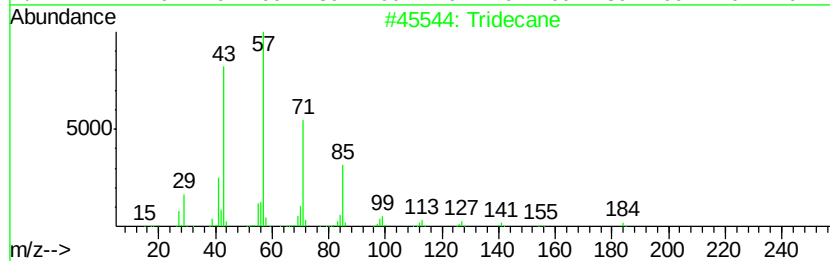
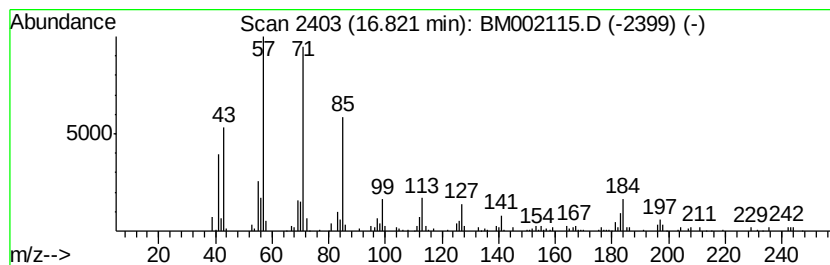
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.82 | 3.81 ng/ul | 149757 | Phenanthrene-d10 | 17.01 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane    | 184 | C13H28  | 000629-50-5 | 93   |
| 2    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 86   |
| 3    |    | Dodecane     | 170 | C12H26  | 000112-40-3 | 83   |
| 4    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 83   |
| 5    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 81   |





Data Path : Z:\HPCHEM1\BNA M\DATA\BM072815\  
Data File : BM002115.D  
Acq On : 29 Jul 2015 04:41  
Operator : TP/UM  
Sample : G3048-22  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C02L1

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072715.M  
Quant Title : SVOA CALIBRATION

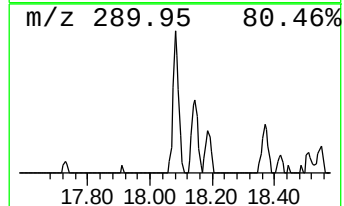
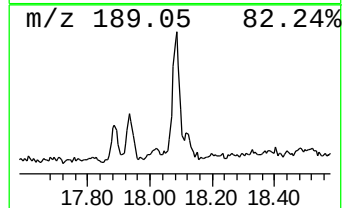
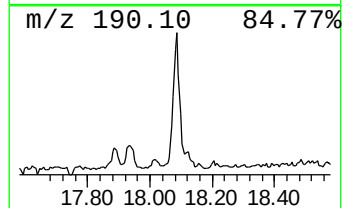
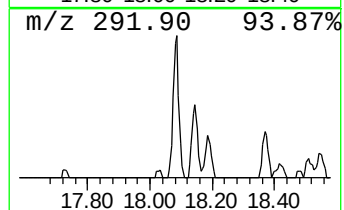
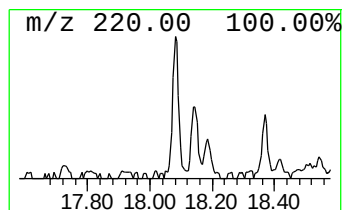
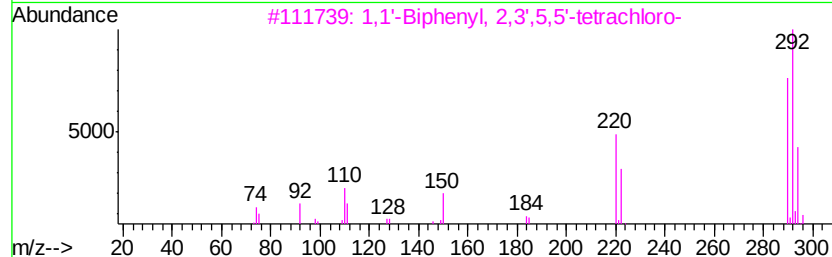
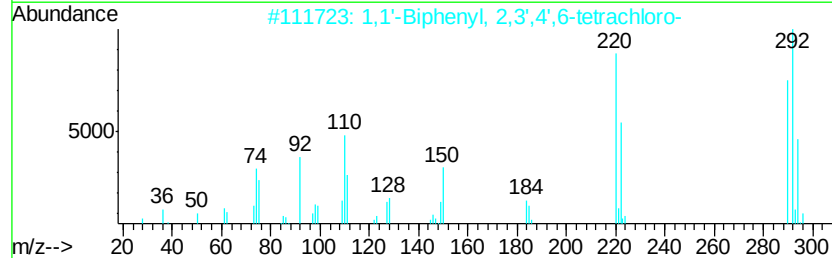
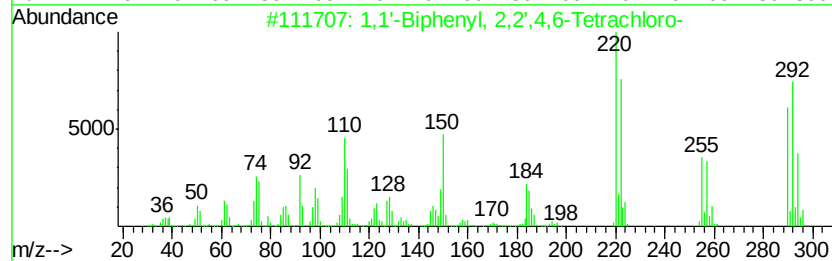
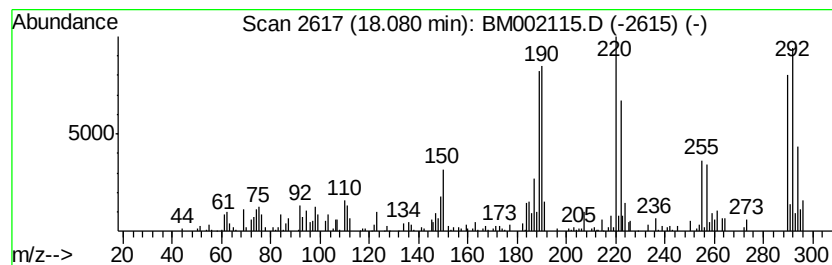
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 1,1'-Biphenyl, 2,2',4,6-Tet... Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.08 | 2.87 ng/ul | 112710 | Phenanthrene-d10 | 17.01 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,2',4,6-Tetrachl... | 290 | C12H6Cl4 | 062796-65-0 | 96   |
| 2    |    | 1,1'-Biphenyl, 2,3',4',6-tetrach... | 290 | C12H6Cl4 | 041464-46-4 | 93   |
| 3    |    | 1,1'-Biphenyl, 2,3',5,5'-tetrach... | 290 | C12H6Cl4 | 041464-42-0 | 92   |
| 4    |    | 1,1'-Biphenyl, 2,3',4',5-tetrach... | 290 | C12H6Cl4 | 032598-11-1 | 92   |
| 5    |    | 1,1'-Biphenyl, 2,2',3,5-Tetrachl... | 290 | C12H6Cl4 | 070362-46-8 | 91   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM072815\  
Data File : BM002115.D  
Acq On : 29 Jul 2015 04:41  
Operator : TP/UM  
Sample : G3048-22  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C02L1

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072715.M  
Quant Title : SVOA CALIBRATION

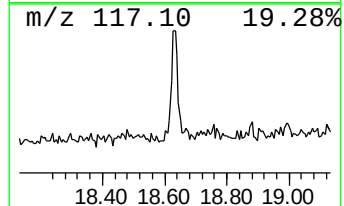
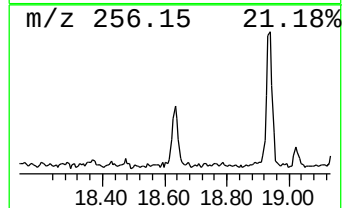
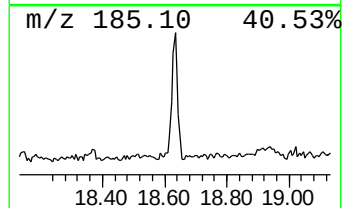
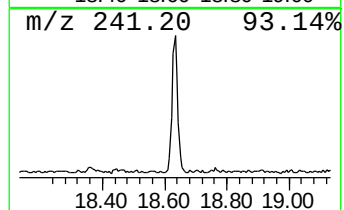
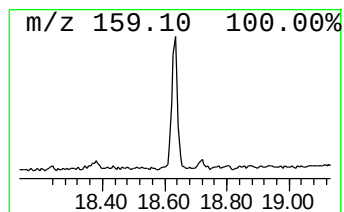
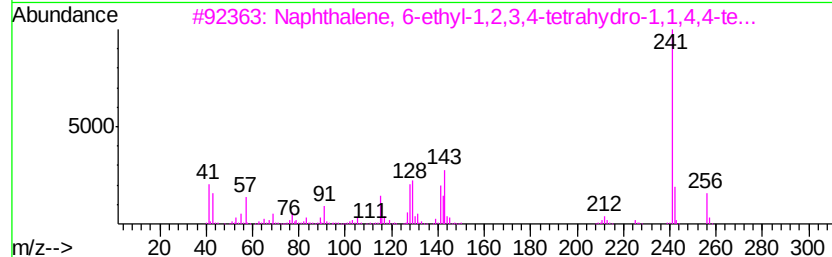
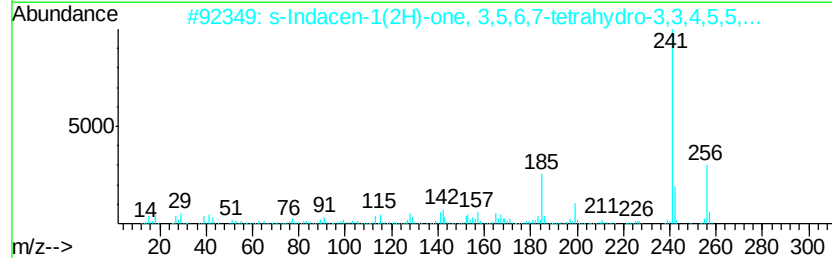
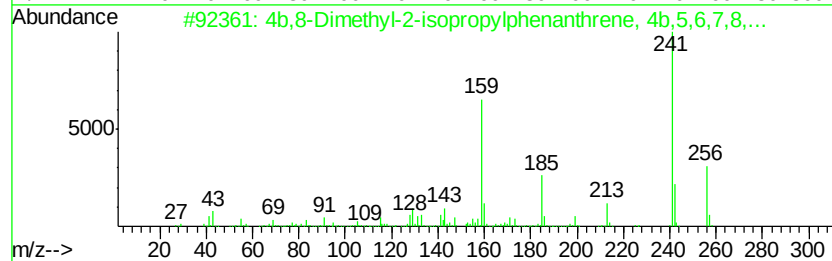
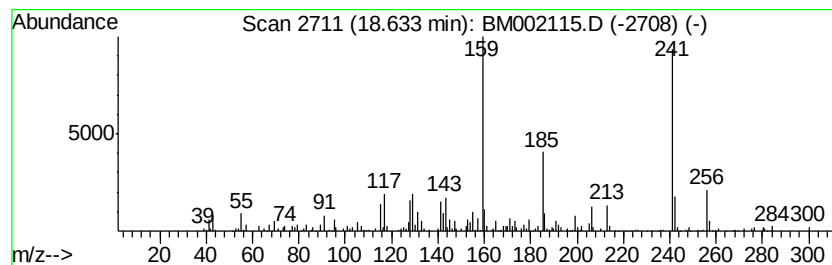
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 4b,8-Dimethyl-2-isopropylph... Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.63 | 3.30 ng/ul | 129752 | Phenanthrene-d10 | 17.01 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28     | 1000197-14-1 | 91   |
| 2    |    | s-Indacen-1(2H)-one, 3,5,6,7-tet... | 256 | C18H24O    | 038754-94-8  | 43   |
| 3    |    | Naphthalene, 6-ethyl-1,2,3,4-tet... | 256 | C19H28     | 301643-35-6  | 38   |
| 4    |    | Isoquinoline-4-carbonitrile, 1-e... | 256 | C15H16N2O2 | 1000259-91-1 | 30   |
| 5    |    | As-Indacene, 1,2,3,6,7,8-hexahyd... | 256 | C19H28     | 017465-47-3  | 25   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM072815\  
Data File : BM002115.D  
Acq On : 29 Jul 2015 04:41  
Operator : TP/UM  
Sample : G3048-22  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C02L1

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072715.M  
Quant Title : SVOA CALIBRATION

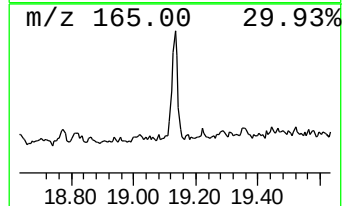
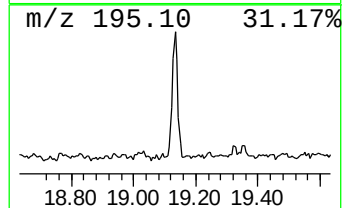
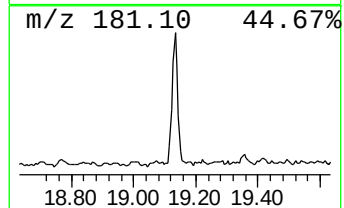
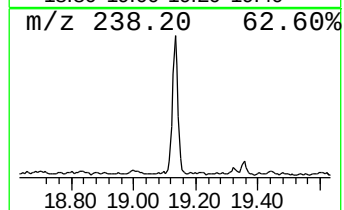
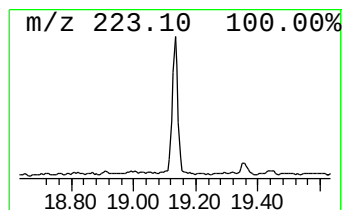
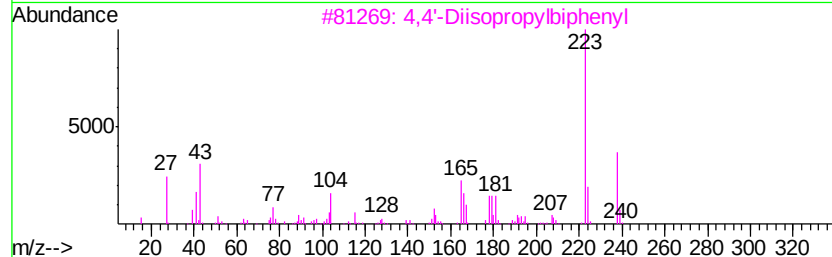
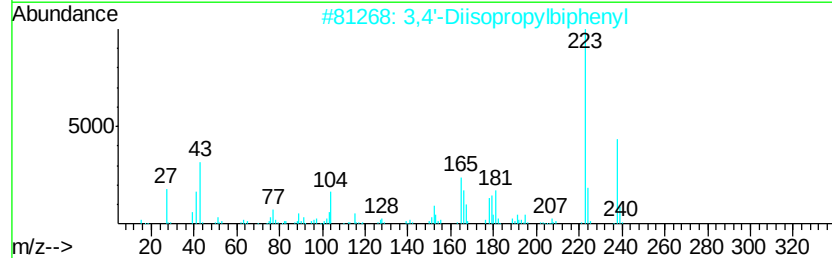
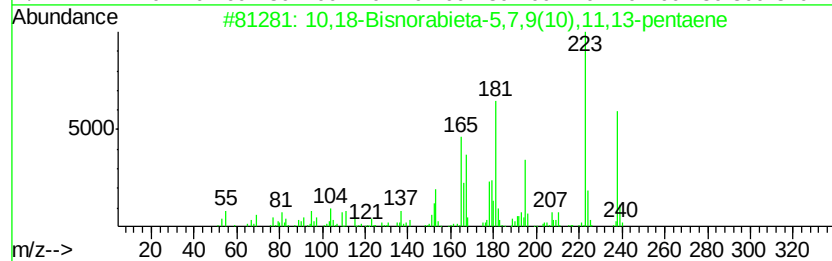
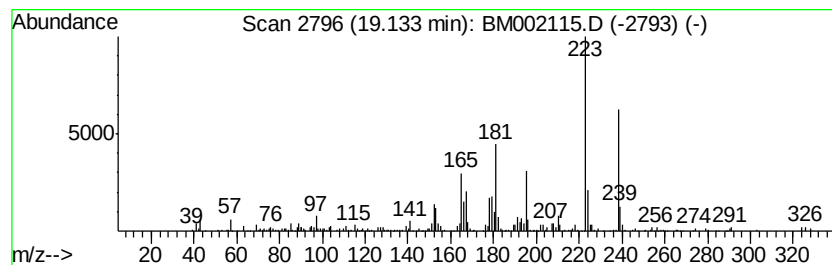
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.13 | 5.41 ng/ul | 277696 | Chrysene-d12     | 21.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 10,18-Bisnorabieta-5,7,9(10),11,... | 238 | C18H22   | 006566-19-4 | 99   |
| 2    |    | 3,4'-Diisopropylbiphenyl            | 238 | C18H22   | 061434-46-6 | 76   |
| 3    |    | 4,4'-Diisopropylbiphenyl            | 238 | C18H22   | 018970-30-4 | 58   |
| 4    |    | 3-(N,N-Diethylamino)carbazole       | 238 | C16H18N2 | 054994-31-9 | 58   |
| 5    |    | 3,3'-Diacetylbiiphenyl              | 238 | C16H14O2 | 094113-07-2 | 53   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM072815\  
Data File : BM002115.D  
Acq On : 29 Jul 2015 04:41  
Operator : TP/UM  
Sample : G3048-22  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C02L1

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072715.M  
Quant Title : SVOA CALIBRATION

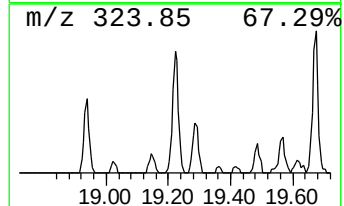
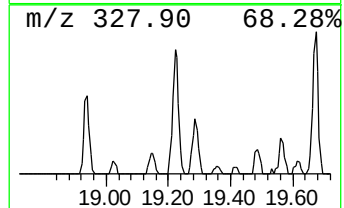
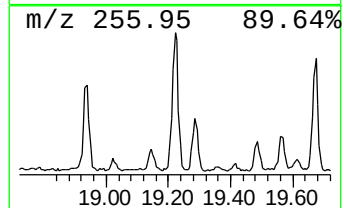
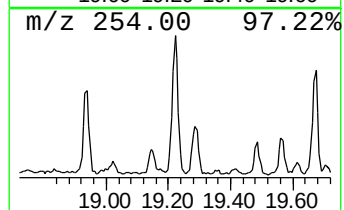
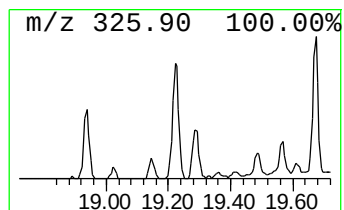
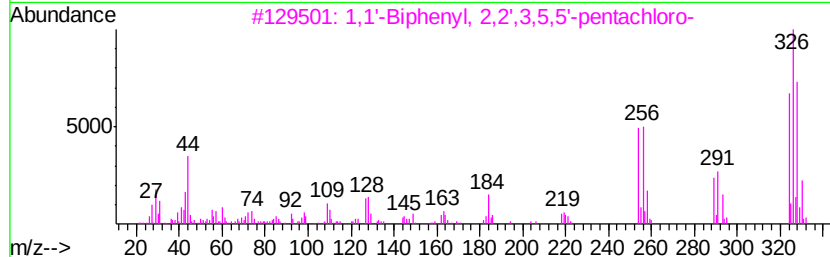
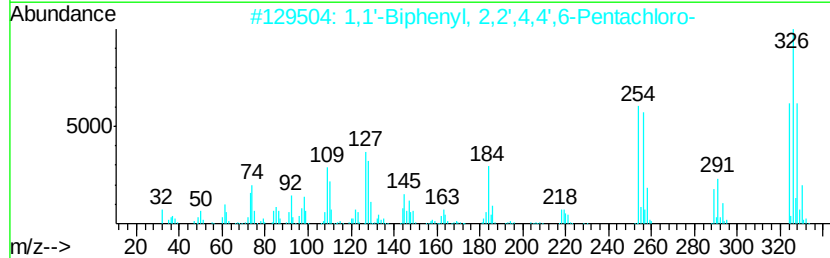
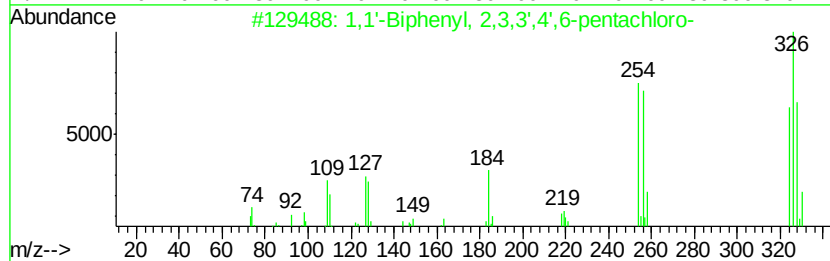
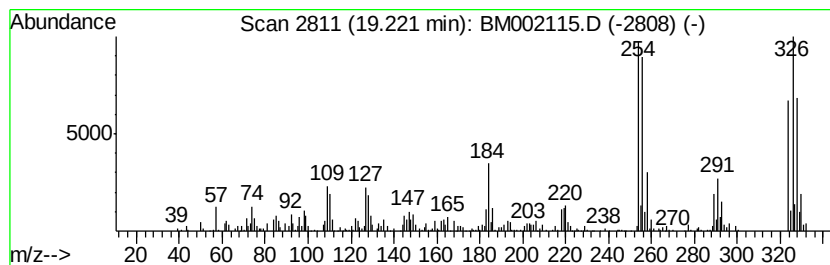
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 1,1'-Biphenyl, 2,3,3',4',6-... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.22 | 4.11 ng/ul | 210877 | Chrysene-d12     | 21.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,3,3',4',6-penta... | 324 | C12H5Cl5 | 038380-03-9 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,2',4,4',6-Penta... | 324 | C12H5Cl5 | 039485-83-1 | 99   |
| 3    |    | 1,1'-Biphenyl, 2,2',3,5,5'-penta... | 324 | C12H5Cl5 | 052663-61-3 | 98   |
| 4    |    | 1,1'-Biphenyl, 2,2',4,4',5-penta... | 324 | C12H5Cl5 | 038380-01-7 | 97   |
| 5    |    | 1,1'-Biphenyl, 2,3',4,4',5-penta... | 324 | C12H5Cl5 | 031508-00-6 | 96   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM072815\  
Data File : BM002115.D  
Acq On : 29 Jul 2015 04:41  
Operator : TP/UM  
Sample : G3048-22  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C02L1

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072715.M  
Quant Title : SVOA CALIBRATION

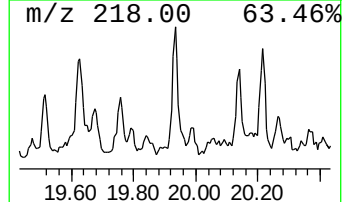
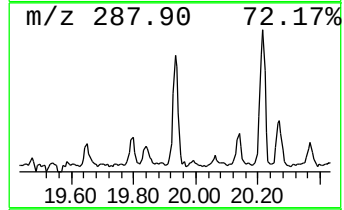
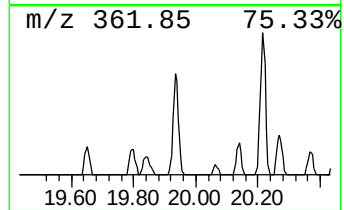
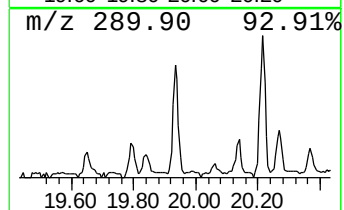
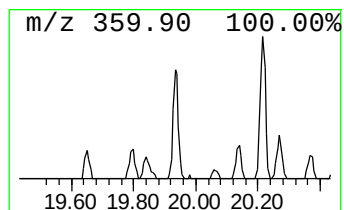
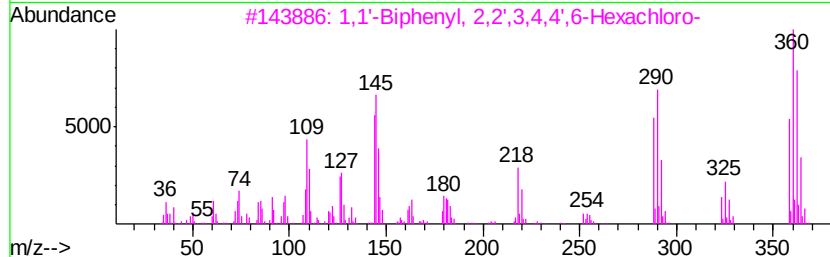
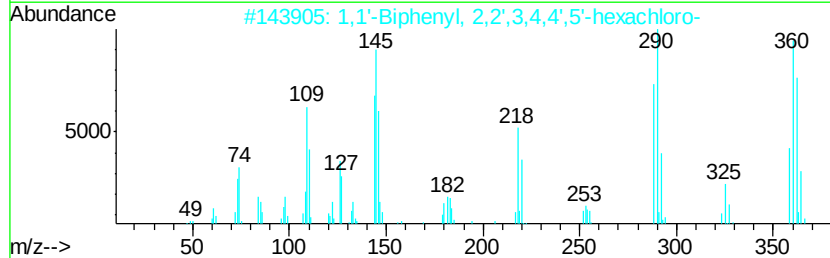
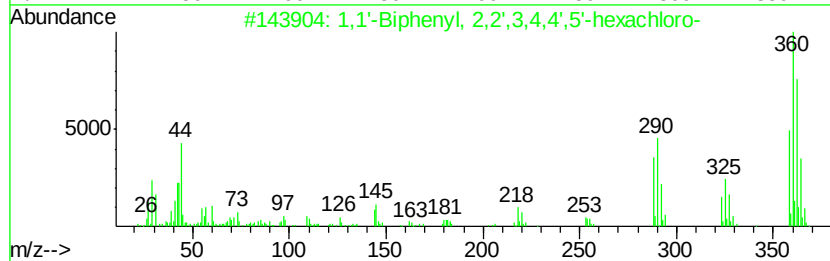
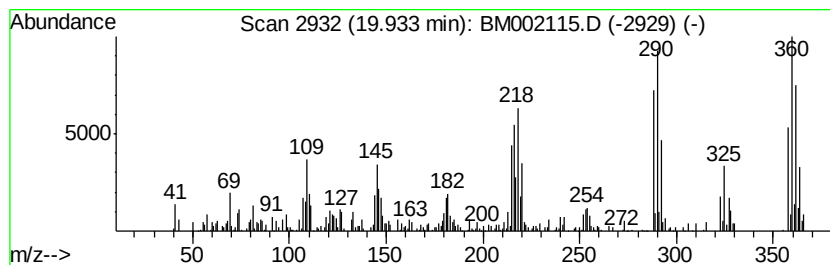
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 1,1'-Biphenyl, 2,2',3,4,4',... Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.93 | 4.49 ng/ul | 230739 | Chrysene-d12     | 21.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 96   |
| 2    |    | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 95   |
| 3    |    | 1,1'-Biphenyl, 2,2',3,4,4',6-Hex... | 358 | C12H4Cl6 | 056030-56-9 | 95   |
| 4    |    | 1,1'-Biphenyl, 2,2',3,4,4',5-hex... | 358 | C12H4Cl6 | 035694-06-5 | 94   |
| 5    |    | 1,1'-Biphenyl, 2,3,3',4,4',5'-he... | 358 | C12H4Cl6 | 069782-90-7 | 93   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM072815\  
Data File : BM002115.D  
Acq On : 29 Jul 2015 04:41  
Operator : TP/UM  
Sample : G3048-22  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C02L1

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM072715.M  
Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Decahydro-4,4,8,9... | 14.08 | 2.0     | ng/ul | 67392    | 3                     | 14.26 | 664905  | 20.0 |
| (DEL) Alkane: Str... | 15.52 | 2.8     | ng/ul | 92064    | 3                     | 14.26 | 664905  | 20.0 |
| (DEL) Alkane: Str... | 16.00 | 8.0     | ng/ul | 315269   | 4                     | 17.01 | 786036  | 20.0 |
| (DEL) Alkane: Str... | 16.82 | 3.8     | ng/ul | 149757   | 4                     | 17.01 | 786036  | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.08 | 2.9     | ng/ul | 112710   | 4                     | 17.01 | 786036  | 20.0 |
| 4b,8-Dimethyl-2-i... | 18.63 | 3.3     | ng/ul | 129752   | 4                     | 17.01 | 786036  | 20.0 |
| 10,18-Bisnorabiet... | 19.13 | 5.4     | ng/ul | 277696   | 5                     | 21.22 | 1027240 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.22 | 4.1     | ng/ul | 210877   | 5                     | 21.22 | 1027240 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.93 | 4.5     | ng/ul | 230739   | 5                     | 21.22 | 1027240 | 20.0 |