

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
 Data File : BG021776.D  
 Acq On : 20 Apr 2016 4:54  
 Operator : UM/SJ  
 Sample : H2617-03  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B-931EB(N)(8)

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:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M

Title : ASP BNA STANDARDS FOR 5 POINT 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         | 3.091       | 38            | 43          | 62           | rVB      | 1379178        | 1890478       | 99.65%          | 8.242%        |
| 2         | 4.953       | 354           | 360         | 366          | rVB2     | 20079          | 35963         | 1.90%           | 0.157%        |
| 3         | 5.130       | 385           | 390         | 397          | rBV      | 28498          | 45511         | 2.40%           | 0.198%        |
| 4         | 5.206       | 397           | 403         | 410          | rVV      | 33041          | 56561         | 2.98%           | 0.247%        |
| 5         | 5.282       | 410           | 416         | 424          | rVB      | 117318         | 186482        | 9.83%           | 0.813%        |
| 6         | 5.758       | 489           | 497         | 512          | rBV      | 427286         | 702564        | 37.03%          | 3.063%        |
| 7         | 7.315       | 751           | 762         | 764          | rBV5     | 55312          | 133371        | 7.03%           | 0.581%        |
| 8         | 7.368       | 764           | 771         | 785          | rVB      | 477504         | 917596        | 48.37%          | 4.000%        |
| 9         | 7.627       | 808           | 815         | 819          | rBV      | 45434          | 78967         | 4.16%           | 0.344%        |
| 10        | 7.744       | 828           | 835         | 845          | rVV      | 437395         | 799026        | 42.12%          | 3.483%        |
| 11        | 7.868       | 849           | 856         | 861          | rVV5     | 21869          | 53894         | 2.84%           | 0.235%        |
| 12        | 8.208       | 904           | 914         | 920          | rBV2     | 94191          | 186997        | 9.86%           | 0.815%        |
| 13        | 8.485       | 951           | 961         | 965          | rVV      | 367932         | 675680        | 35.62%          | 2.946%        |
| 14        | 8.537       | 965           | 970         | 978          | rVB      | 299784         | 538545        | 28.39%          | 2.348%        |
| 15        | 8.678       | 987           | 994         | 998          | rBV4     | 20765          | 35851         | 1.89%           | 0.156%        |
| 16        | 8.749       | 998           | 1006        | 1010         | rVV2     | 40979          | 82385         | 4.34%           | 0.359%        |
| 17        | 8.802       | 1010          | 1015        | 1021         | rVB      | 42704          | 87501         | 4.61%           | 0.381%        |
| 18        | 8.919       | 1030          | 1035        | 1042         | rVB2     | 28570          | 49244         | 2.60%           | 0.215%        |
| 19        | 9.072       | 1056          | 1061        | 1066         | rVB2     | 32727          | 61187         | 3.23%           | 0.267%        |
| 20        | 9.266       | 1088          | 1094        | 1100         | rBV6     | 15236          | 35162         | 1.85%           | 0.153%        |
| 21        | 9.378       | 1106          | 1113        | 1117         | rBV      | 279741         | 516118        | 27.20%          | 2.250%        |
| 22        | 9.425       | 1117          | 1121        | 1127         | rVB      | 242637         | 402876        | 21.24%          | 1.756%        |
| 23        | 9.542       | 1135          | 1141        | 1146         | rBV      | 130875         | 229705        | 12.11%          | 1.001%        |
| 24        | 9.589       | 1146          | 1149        | 1157         | rVB5     | 37581          | 62427         | 3.29%           | 0.272%        |
| 25        | 9.701       | 1159          | 1168        | 1176         | rVB      | 377057         | 667657        | 35.19%          | 2.911%        |
| 26        | 9.930       | 1197          | 1207        | 1214         | rBV10    | 11015          | 37066         | 1.95%           | 0.162%        |
| 27        | 10.100      | 1219          | 1236        | 1244         | rBV2     | 101189         | 258919        | 13.65%          | 1.129%        |
| 28        | 10.218      | 1250          | 1256        | 1262         | rBV      | 72776          | 129398        | 6.82%           | 0.564%        |
| 29        | 10.300      | 1266          | 1270        | 1276         | rVB      | 19580          | 34748         | 1.83%           | 0.151%        |
| 30        | 10.423      | 1286          | 1291        | 1299         | rBV6     | 29317          | 62595         | 3.30%           | 0.273%        |
| 31        | 10.688      | 1323          | 1336        | 1342         | rBV      | 143595         | 268282        | 14.14%          | 1.170%        |
| 32        | 10.811      | 1352          | 1357        | 1363         | rBV      | 22324          | 38745         | 2.04%           | 0.169%        |
| 33        | 10.899      | 1367          | 1372        | 1376         | rVB2     | 29702          | 44787         | 2.36%           | 0.195%        |
| 34        | 11.029      | 1387          | 1394        | 1398         | rBV      | 133614         | 256490        | 13.52%          | 1.118%        |

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 ClientSampleId :  
 B-931EB(N)(8)

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:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 11.081 | 1398 | 1403 | 1419 | rVB  | 357849 | 711437  | 37.50% | 3.102% |
| 36 | 11.287 | 1430 | 1438 | 1449 | rVB  | 45159  | 94745   | 4.99%  | 0.413% |
| 37 | 11.757 | 1512 | 1518 | 1524 | rVV2 | 45726  | 87138   | 4.59%  | 0.380% |
| 38 | 12.098 | 1567 | 1576 | 1584 | rVB5 | 21170  | 54383   | 2.87%  | 0.237% |
| 39 | 12.262 | 1598 | 1604 | 1608 | rBV  | 27713  | 53036   | 2.80%  | 0.231% |
| 40 | 12.345 | 1612 | 1618 | 1625 | rVV  | 189168 | 334530  | 17.63% | 1.458% |
| 41 | 12.433 | 1625 | 1633 | 1645 | rVB5 | 23211  | 74704   | 3.94%  | 0.326% |
| 42 | 12.539 | 1645 | 1651 | 1654 | rBV7 | 18362  | 36076   | 1.90%  | 0.157% |
| 43 | 12.580 | 1654 | 1658 | 1666 | rVB2 | 36992  | 76581   | 4.04%  | 0.334% |
| 44 | 12.662 | 1666 | 1672 | 1678 | rBV  | 87719  | 149345  | 7.87%  | 0.651% |
| 45 | 12.791 | 1689 | 1694 | 1700 | rVB3 | 21526  | 38136   | 2.01%  | 0.166% |
| 46 | 12.885 | 1703 | 1710 | 1716 | rBV  | 60894  | 114011  | 6.01%  | 0.497% |
| 47 | 13.144 | 1750 | 1754 | 1759 | rVB3 | 22920  | 35639   | 1.88%  | 0.155% |
| 48 | 13.203 | 1759 | 1764 | 1770 | rVB3 | 34859  | 56516   | 2.98%  | 0.246% |
| 49 | 13.449 | 1799 | 1806 | 1812 | rVB  | 854631 | 1365324 | 71.97% | 5.952% |
| 50 | 13.661 | 1838 | 1842 | 1846 | rVB2 | 21175  | 32950   | 1.74%  | 0.144% |
| 51 | 13.796 | 1859 | 1865 | 1873 | rBV2 | 283696 | 597434  | 31.49% | 2.605% |
| 52 | 13.996 | 1894 | 1899 | 1903 | rBV5 | 16151  | 36128   | 1.90%  | 0.158% |
| 53 | 14.078 | 1908 | 1913 | 1916 | rVV  | 55502  | 86138   | 4.54%  | 0.376% |
| 54 | 14.143 | 1920 | 1924 | 1929 | rVV4 | 26130  | 50083   | 2.64%  | 0.218% |
| 55 | 14.266 | 1937 | 1945 | 1951 | rVB2 | 95661  | 182865  | 9.64%  | 0.797% |
| 56 | 14.542 | 1984 | 1992 | 1999 | rBV2 | 31031  | 80126   | 4.22%  | 0.349% |
| 57 | 14.683 | 2011 | 2016 | 2021 | rBV3 | 37930  | 58799   | 3.10%  | 0.256% |
| 58 | 14.760 | 2025 | 2029 | 2034 | rVV2 | 20870  | 37335   | 1.97%  | 0.163% |
| 59 | 14.818 | 2034 | 2039 | 2047 | rVV3 | 234957 | 427993  | 22.56% | 1.866% |
| 60 | 14.883 | 2047 | 2050 | 2054 | rVB  | 30297  | 39552   | 2.08%  | 0.172% |
| 61 | 15.042 | 2070 | 2077 | 2084 | rVB  | 139559 | 241307  | 12.72% | 1.052% |
| 62 | 15.212 | 2101 | 2106 | 2114 | rVB  | 55255  | 111929  | 5.90%  | 0.488% |
| 63 | 15.376 | 2129 | 2134 | 2135 | rBV2 | 67876  | 86179   | 4.54%  | 0.376% |
| 64 | 15.553 | 2156 | 2164 | 2169 | rBV  | 56695  | 113800  | 6.00%  | 0.496% |
| 65 | 15.635 | 2173 | 2178 | 2185 | rVB2 | 69473  | 116889  | 6.16%  | 0.510% |
| 66 | 15.735 | 2190 | 2195 | 2210 | rVV2 | 147537 | 277547  | 14.63% | 1.210% |
| 67 | 15.858 | 2210 | 2216 | 2223 | rVV3 | 64430  | 141879  | 7.48%  | 0.619% |
| 68 | 16.029 | 2240 | 2245 | 2248 | rBV6 | 16544  | 35547   | 1.87%  | 0.155% |
| 69 | 16.146 | 2260 | 2265 | 2269 | rVV4 | 36104  | 57761   | 3.04%  | 0.252% |
| 70 | 16.193 | 2269 | 2273 | 2278 | rVB3 | 28226  | 43447   | 2.29%  | 0.189% |
| 71 | 16.299 | 2285 | 2291 | 2301 | rVB  | 664732 | 1014541 | 53.48% | 4.423% |

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 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B-931EB(N)(8)

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:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 16.493 | 2319 | 2324 | 2331 | rBV  | 87597   | 160588  | 8.46%   | 0.700% |
| 73  | 16.828 | 2377 | 2381 | 2389 | rBV6 | 27355   | 60875   | 3.21%   | 0.265% |
| 74  | 17.280 | 2454 | 2458 | 2463 | rBV  | 89660   | 115954  | 6.11%   | 0.506% |
| 75  | 17.333 | 2464 | 2467 | 2470 | rVV3 | 23239   | 33035   | 1.74%   | 0.144% |
| 76  | 17.556 | 2498 | 2505 | 2509 | rBV2 | 304976  | 495612  | 26.12%  | 2.161% |
| 77  | 17.597 | 2509 | 2512 | 2519 | rVB  | 177945  | 265784  | 14.01%  | 1.159% |
| 78  | 17.686 | 2522 | 2527 | 2534 | rVB  | 61301   | 101062  | 5.33%   | 0.441% |
| 79  | 17.950 | 2568 | 2572 | 2577 | rVV3 | 22638   | 36709   | 1.93%   | 0.160% |
| 80  | 18.020 | 2580 | 2584 | 2590 | rVB  | 106518  | 130393  | 6.87%   | 0.568% |
| 81  | 18.420 | 2648 | 2652 | 2656 | rBV2 | 25623   | 40130   | 2.12%   | 0.175% |
| 82  | 18.467 | 2656 | 2660 | 2667 | rVB3 | 27773   | 47560   | 2.51%   | 0.207% |
| 83  | 18.555 | 2671 | 2675 | 2679 | rVB2 | 24724   | 32630   | 1.72%   | 0.142% |
| 84  | 18.620 | 2680 | 2686 | 2690 | rBV4 | 31012   | 59632   | 3.14%   | 0.260% |
| 85  | 18.702 | 2696 | 2700 | 2706 | rVB  | 98912   | 115957  | 6.11%   | 0.506% |
| 86  | 19.325 | 2802 | 2806 | 2811 | rBV  | 124646  | 155739  | 8.21%   | 0.679% |
| 87  | 19.589 | 2847 | 2851 | 2856 | rVB  | 75380   | 106892  | 5.63%   | 0.466% |
| 88  | 19.895 | 2898 | 2903 | 2906 | rBV2 | 89823   | 110681  | 5.83%   | 0.483% |
| 89  | 19.948 | 2908 | 2912 | 2917 | rVB  | 70772   | 110413  | 5.82%   | 0.481% |
| 90  | 20.141 | 2939 | 2945 | 2951 | rVB  | 1412540 | 1897144 | 100.00% | 8.271% |
| 91  | 20.423 | 2989 | 2993 | 2998 | rVB3 | 98707   | 125846  | 6.63%   | 0.549% |
| 92  | 20.594 | 3020 | 3022 | 3032 | rVB6 | 26468   | 58023   | 3.06%   | 0.253% |
| 93  | 20.917 | 3074 | 3077 | 3080 | rVV  | 71981   | 90119   | 4.75%   | 0.393% |
| 94  | 21.434 | 3160 | 3165 | 3173 | rVB  | 172470  | 246925  | 13.02%  | 1.076% |
| 95  | 21.828 | 3225 | 3232 | 3237 | rBV  | 314261  | 560139  | 29.53%  | 2.442% |
| 96  | 21.998 | 3256 | 3261 | 3265 | rBV2 | 70043   | 103417  | 5.45%   | 0.451% |
| 97  | 22.621 | 3363 | 3367 | 3376 | rVB  | 61772   | 114975  | 6.06%   | 0.501% |
| 98  | 23.338 | 3484 | 3489 | 3495 | rVB2 | 41702   | 84191   | 4.44%   | 0.367% |
| 99  | 24.166 | 3625 | 3630 | 3637 | rVB4 | 34213   | 67191   | 3.54%   | 0.293% |
| 100 | 25.153 | 3788 | 3798 | 3808 | rBV  | 201617  | 595655  | 31.40%  | 2.597% |

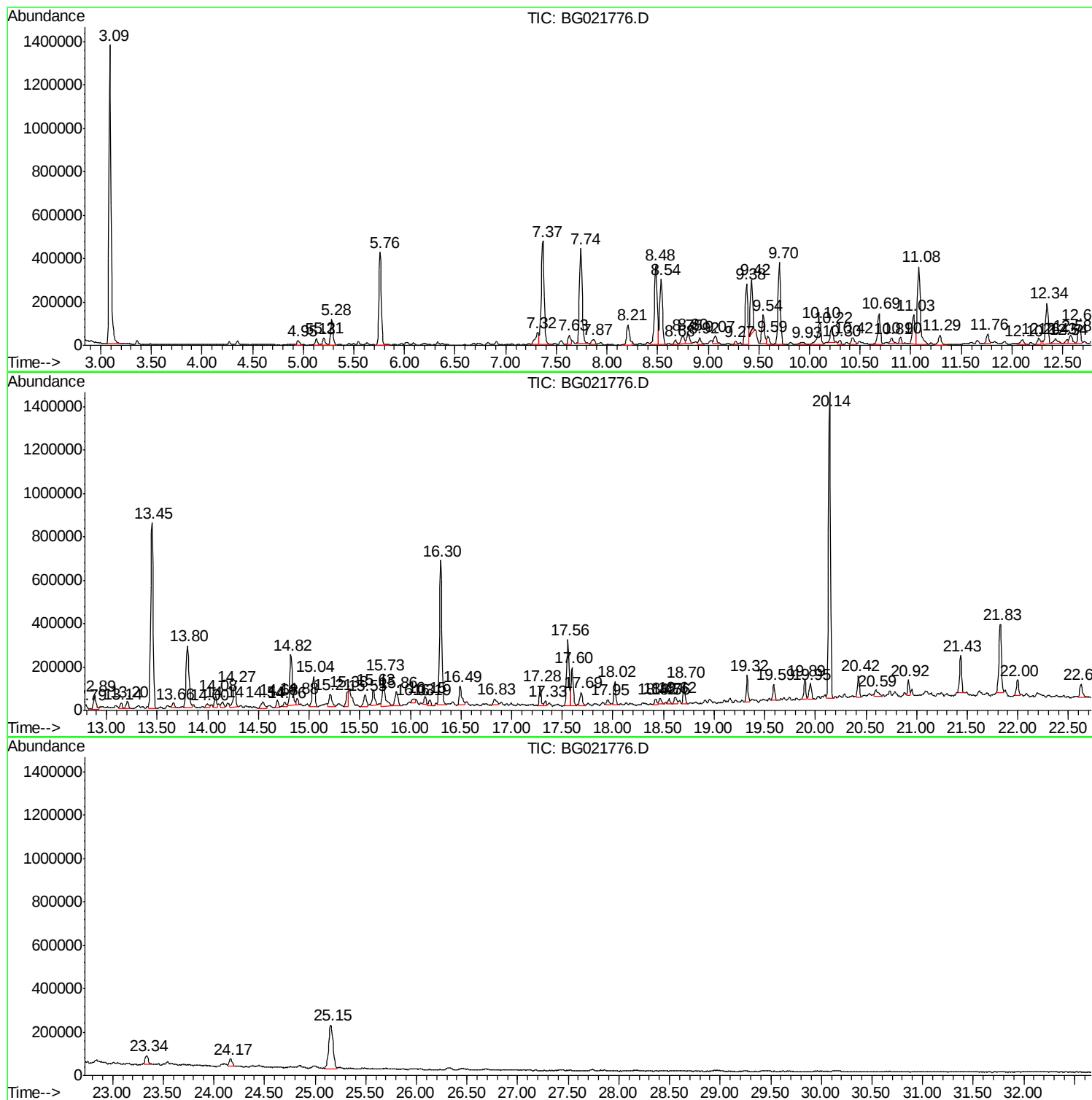
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Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
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Instrument :  
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ClientSampleId :  
B-931EB(N)(8)

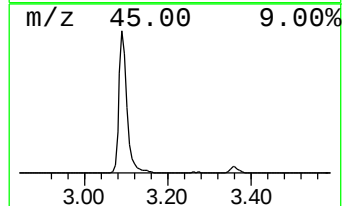
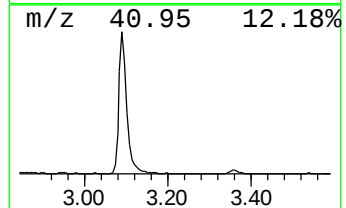
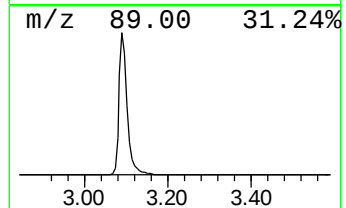
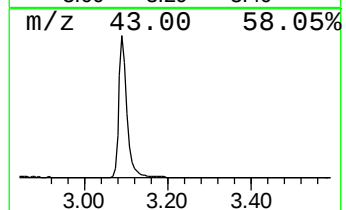
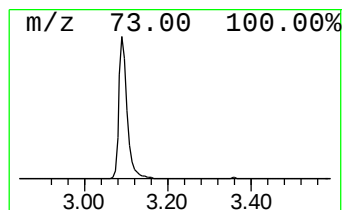
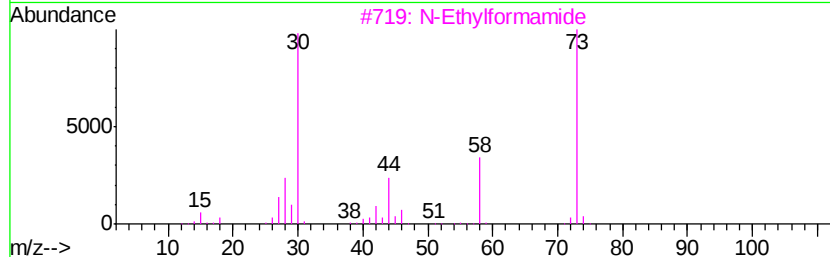
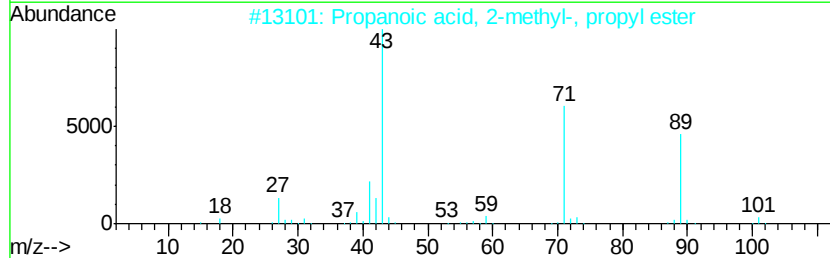
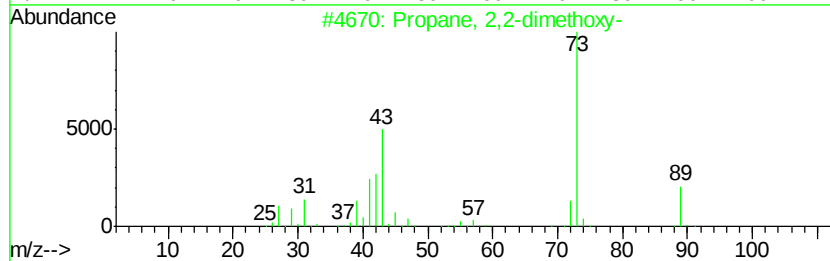
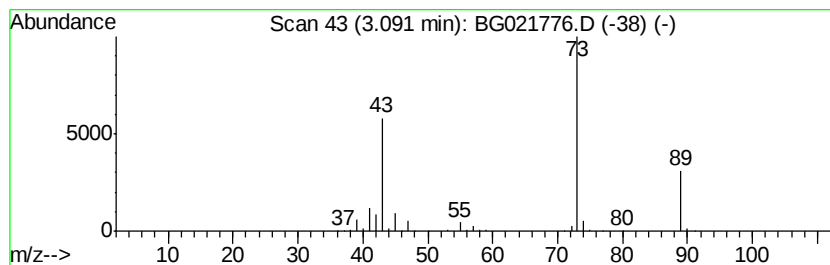
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Propane, 2,2-dimethoxy- Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 3.09 | 202.19 ng | 1890480 | 1,4-Dichlorobenzene-d4 | 8.21 |

| Hit# | of | Tentative ID                            | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propane, 2,2-dimethoxy-                 | 104 | C5H12O2 | 000077-76-9 | 56   |
| 2    |    | Propanoic acid, 2-methyl-, propyl ester | 130 | C7H14O2 | 000644-49-5 | 23   |
| 3    |    | N-Ethylformamide                        | 73  | C3H7NO  | 000627-45-2 | 9    |
| 4    |    | 1,3-Diaminoquanidine                    | 89  | CH7N5   | 004364-78-7 | 9    |
| 5    |    | 1-Propanol, 2-methyl-                   | 74  | C4H10O  | 000078-83-1 | 9    |



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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

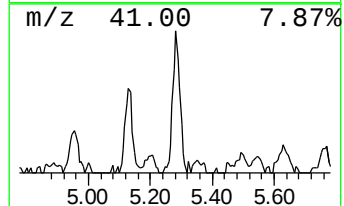
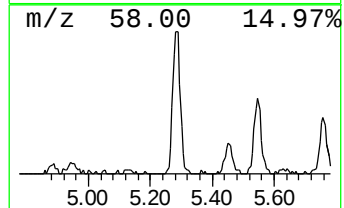
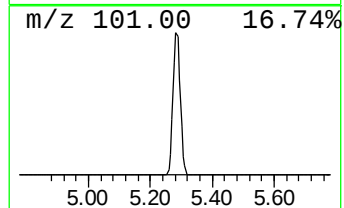
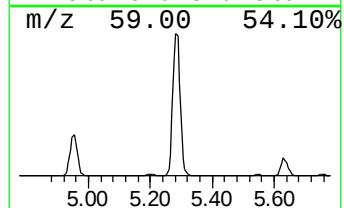
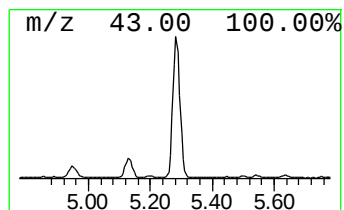
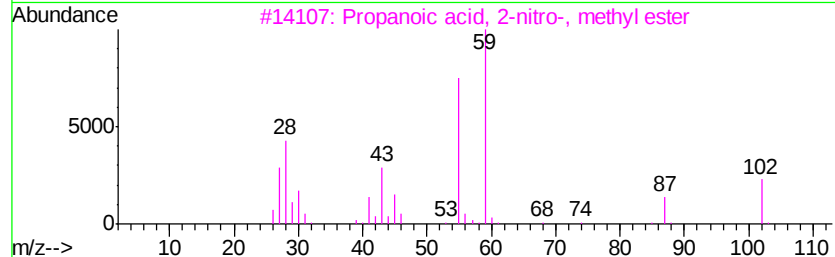
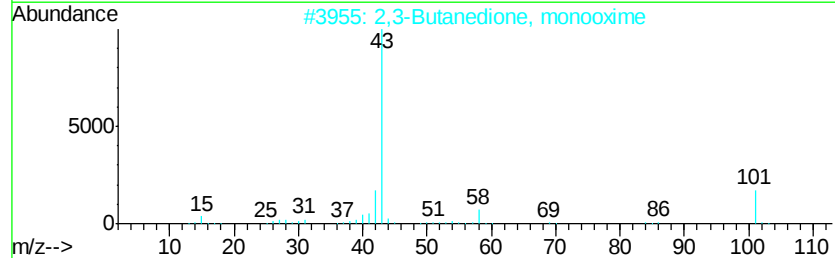
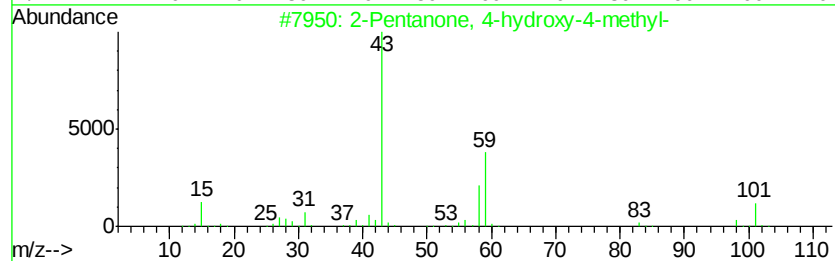
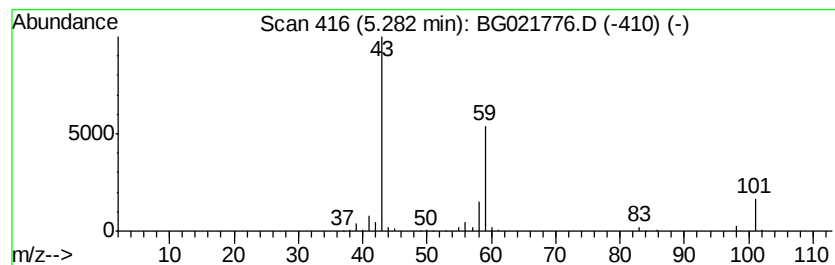
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 10

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.28 | 19.94 ng | 186482 | 1,4-Dichlorobenzene-d4 | 8.21 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2      | 000123-42-2 | 59      |      |      |
| 2    | 2,3-Butanedione, monooxime          | 101 | C4H7NO2      | 000057-71-6 | 9       |      |      |
| 3    | Propanoic acid, 2-nitro-, methyl... | 133 | C4H7NO4      | 006118-50-9 | 9       |      |      |
| 4    | 3-Hexanol, 4-ethyl-                 | 130 | C8H18O       | 019780-44-0 | 9       |      |      |
| 5    | Propane, 1-ethoxy-2-methyl-         | 102 | C6H14O       | 000627-02-1 | 9       |      |      |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
Operator : UM/SJ  
Sample : H2617-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

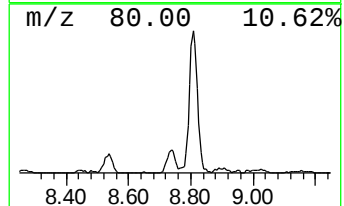
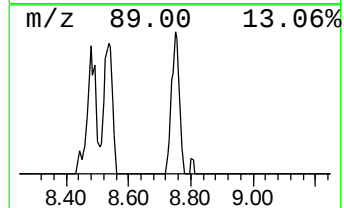
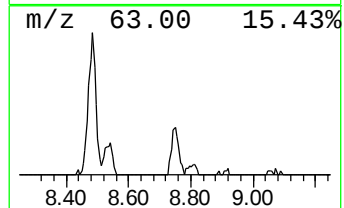
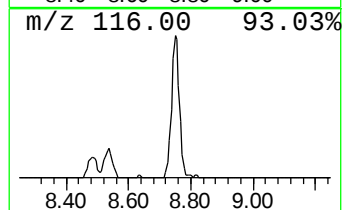
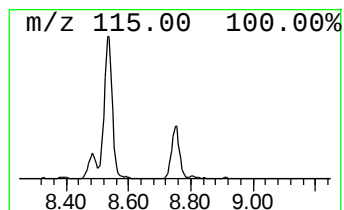
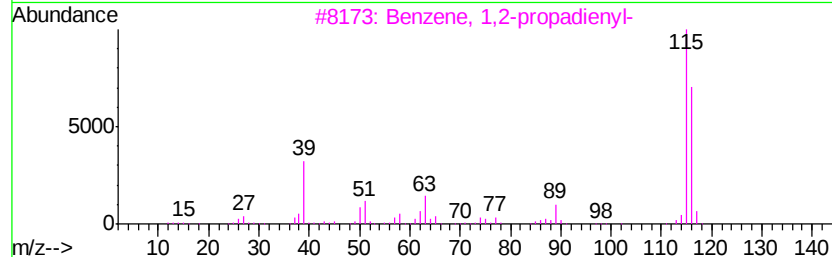
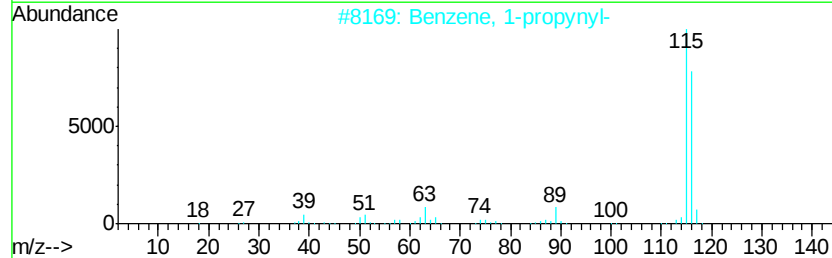
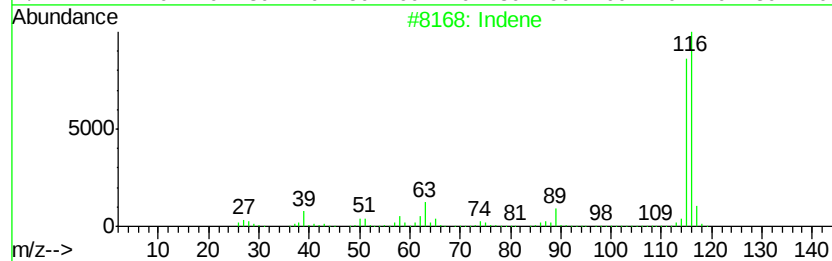
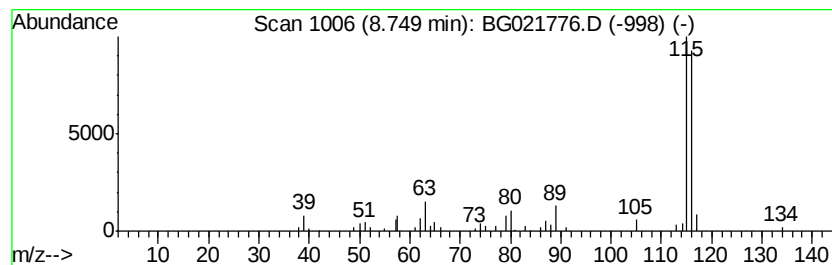
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Indene Concentration Rank 18

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 8.75 | 8.81 ng | 82385 | 1,4-Dichlorobenzene-d4 | 8.21 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Indene                       | 116 | C9H8    | 000095-13-6 | 91   |
| 2    |    | Benzene, 1-propynyl-         | 116 | C9H8    | 000673-32-5 | 91   |
| 3    |    | Benzene, 1,2-propadienyl-    | 116 | C9H8    | 002327-99-3 | 87   |
| 4    |    | Benzene, 1-ethynyl-2-methyl- | 116 | C9H8    | 000766-47-2 | 86   |
| 5    |    | Benzene, 1-ethynyl-4-methyl- | 116 | C9H8    | 000766-97-2 | 80   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
Operator : UM/SJ  
Sample : H2617-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

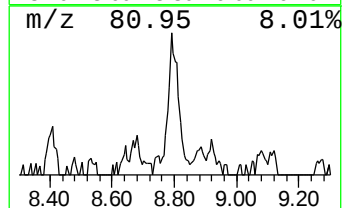
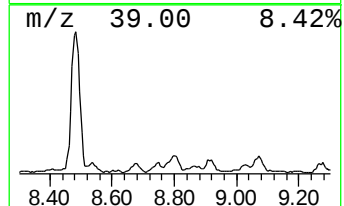
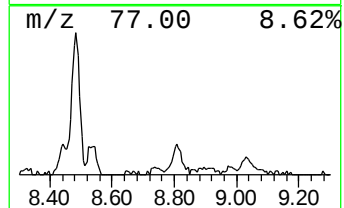
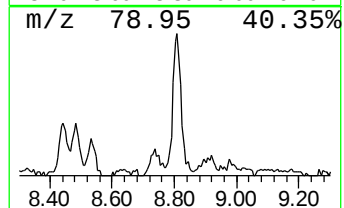
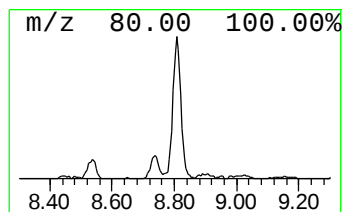
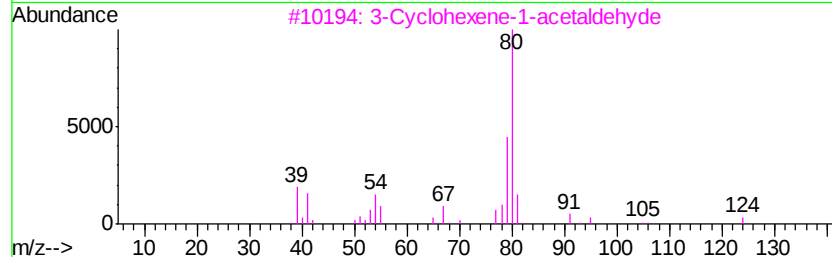
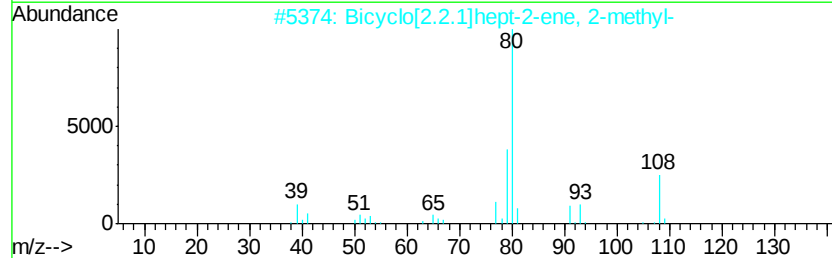
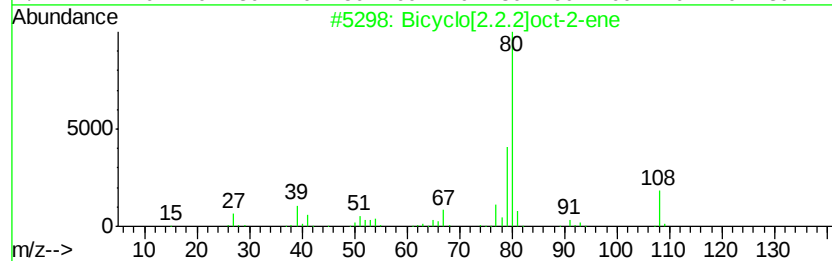
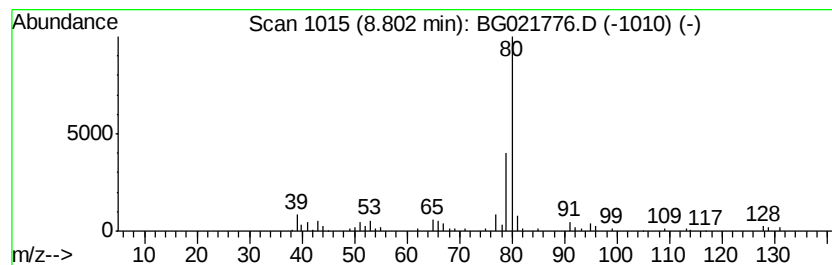
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Bicyclo[2.2.2]oct-2-ene Concentration Rank 15

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 8.80 | 9.36 ng | 87501 | 1,4-Dichlorobenzene-d4 | 8.21 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[2.2.2]oct-2-ene             | 108 | C8H12   | 000931-64-6 | 83   |
| 2    |    | Bicyclo[2.2.1]hept-2-ene, 2-methyl- | 108 | C8H12   | 000694-92-8 | 83   |
| 3    |    | 3-Cyclohexene-1-acetaldehyde        | 124 | C8H12O  | 024480-99-7 | 74   |
| 4    |    | Bicyclo[2.2.2]oct-5-en-2-one        | 122 | C8H10O  | 002220-40-8 | 64   |
| 5    |    | Bicyclo[2.2.1]hept-2-ene, 1-methyl- | 108 | C8H12   | 000822-73-1 | 64   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
Operator : UM/SJ  
Sample : H2617-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

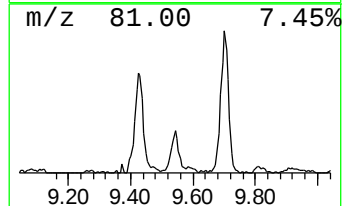
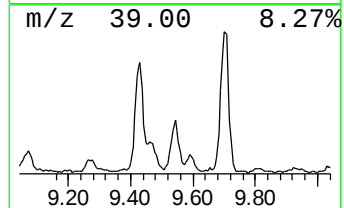
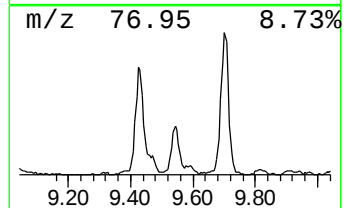
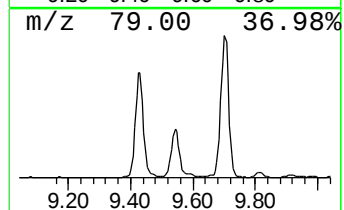
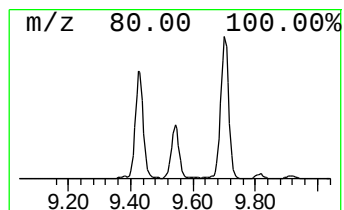
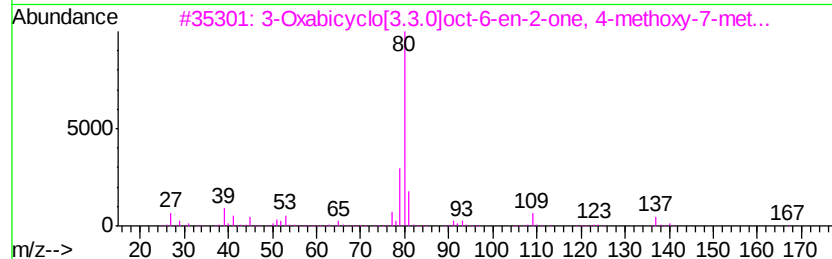
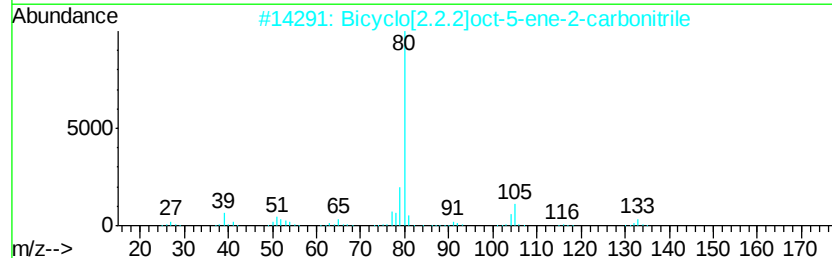
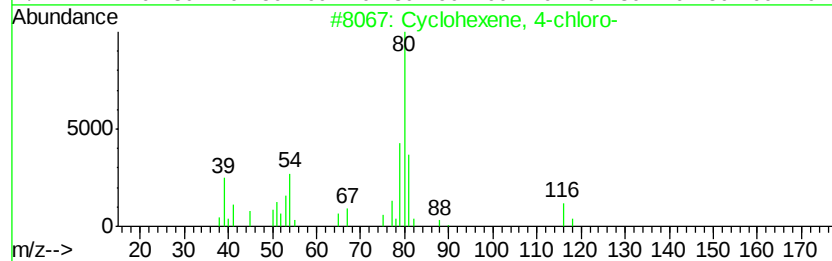
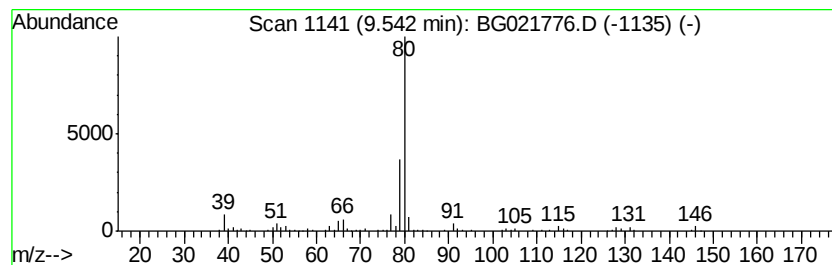
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Cyclohexene, 4-chloro- Concentration Rank 7

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 9.54 | 24.57 ng | 229705 | 1,4-Dichlorobenzene-d4 | 8.21 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Cyclohexene, 4-chloro-              | 116 | C6H9Cl  | 000930-65-4  | 74   |
| 2    |    | Bicyclo[2.2.2]oct-5-ene-2-carbon... | 133 | C9H11N  | 1000164-89-7 | 74   |
| 3    |    | 3-Oxabicyclo[3.3.0]oct-6-en-2-on... | 168 | C9H12O3 | 1000155-62-0 | 64   |
| 4    |    | Bicyclo[3.2.0]hept-2-ene, 2-methyl- | 108 | C8H12   | 094122-58-4  | 64   |
| 5    |    | Bicyclo[2.2.1]hept-2-ene, 1-methyl- | 108 | C8H12   | 000822-73-1  | 64   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
Operator : UM/SJ  
Sample : H2617-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

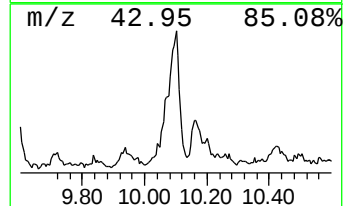
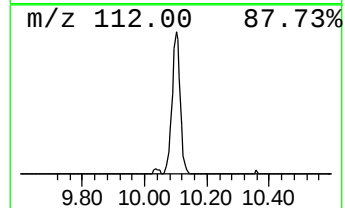
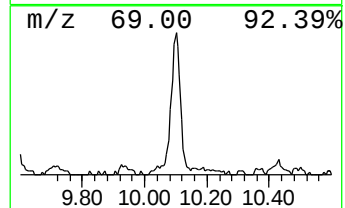
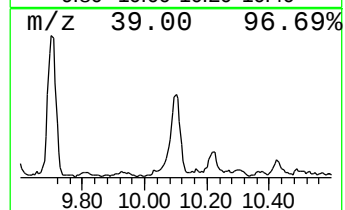
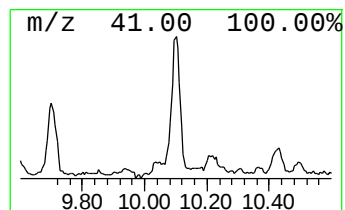
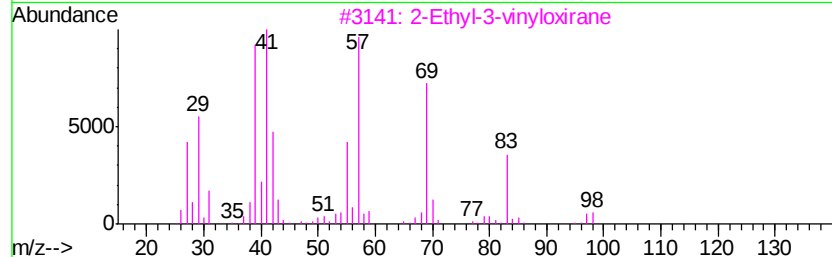
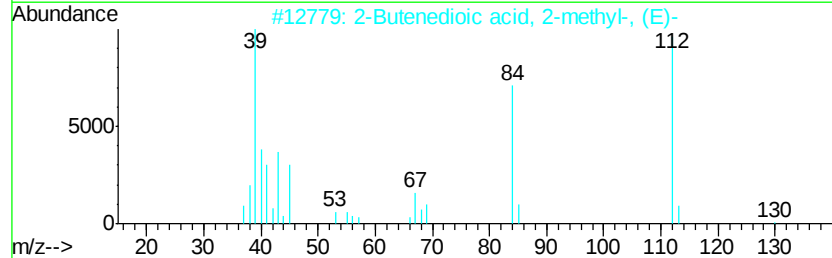
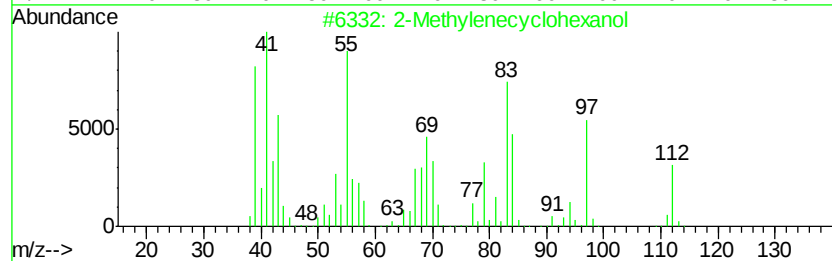
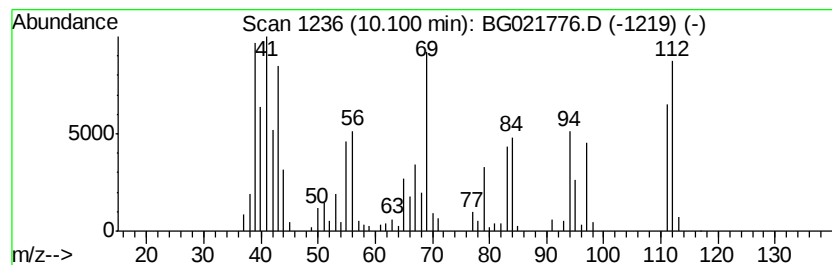
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 unknown10.10 Concentration Rank 9

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 10.10 | 20.19 ng | 258919 | Naphthalene-d8   | 11.03 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Methylenecyclohexanol             | 112 | C7H12O  | 004065-80-9 | 49   |
| 2    |    |   | 2-Butenedioic acid, 2-methyl-, (E)- | 130 | C5H6O4  | 000498-24-8 | 47   |
| 3    |    |   | 2-Ethyl-3-vinloxirane               | 98  | C6H10O  | 034485-78-4 | 38   |
| 4    |    |   | 3-Penten-2-one, (E)-                | 84  | C5H8O   | 003102-33-8 | 38   |
| 5    |    |   | 1,2-Cyclopentanedione, 3-methyl-    | 112 | C6H8O2  | 000765-70-8 | 38   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
Operator : UM/SJ  
Sample : H2617-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

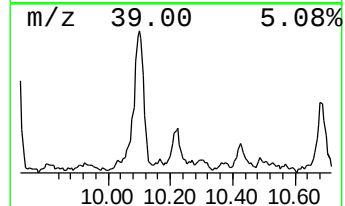
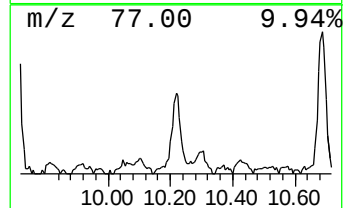
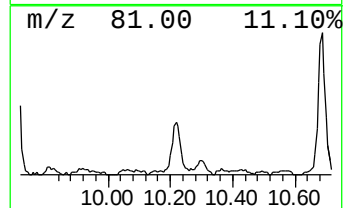
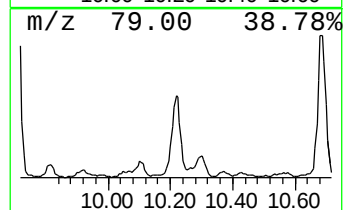
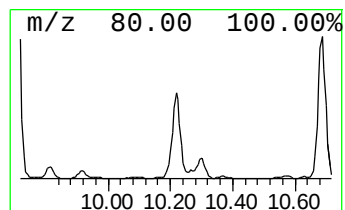
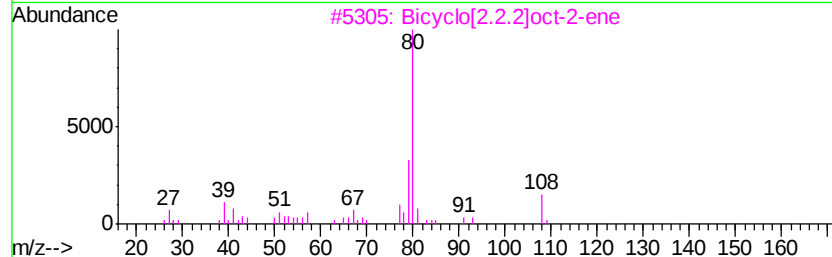
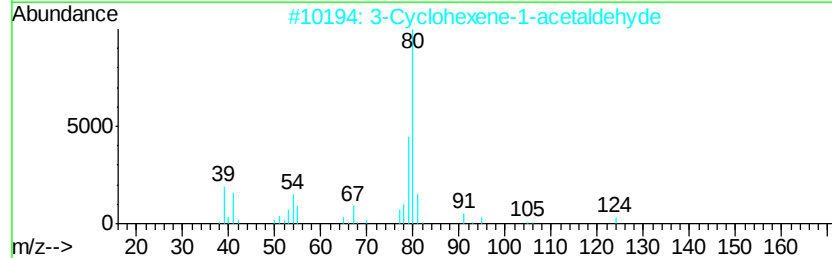
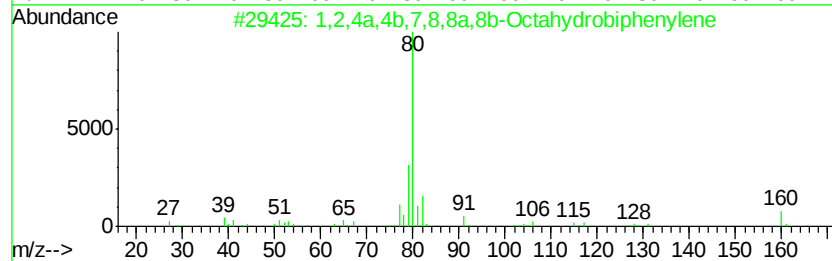
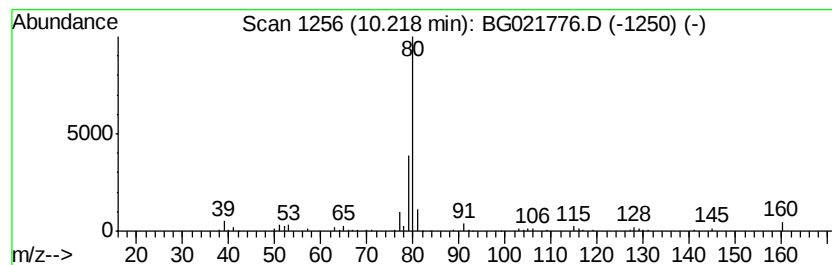
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 1,2,4a,4b,7,8,8a,8b-Octahyd... Concentration Rank 14

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 10.22 | 10.09 ng | 129398 | Napthalene-d8    | 11.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 1,2,4a,4b,7,8,8a,8b-Octahydrobip... | 160 | C12H16   | 062357-80-6  | 83   |
| 2    |    | 3-Cyclohexene-1-acetaldehyde        | 124 | C8H12O   | 024480-99-7  | 83   |
| 3    |    | Bicyclo[2.2.2]oct-2-ene             | 108 | C8H12    | 000931-64-6  | 74   |
| 4    |    | Bicyclo[2.2.2]oct-5-en-2-one        | 122 | C8H10O   | 002220-40-8  | 64   |
| 5    |    | 1-Methylbicyclo[2.2.1]hept-5-ene... | 264 | C15H20O4 | 1000210-18-6 | 56   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
Operator : UM/SJ  
Sample : H2617-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

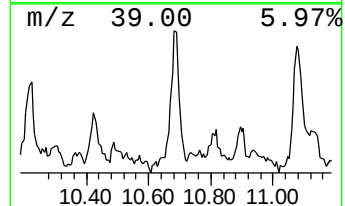
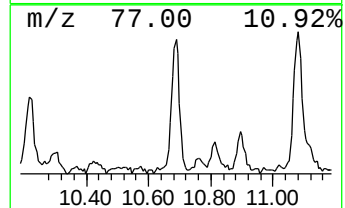
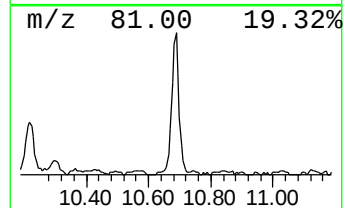
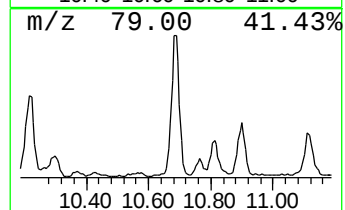
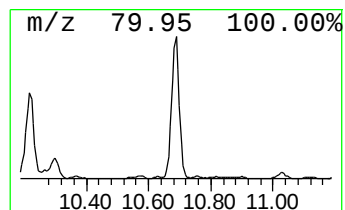
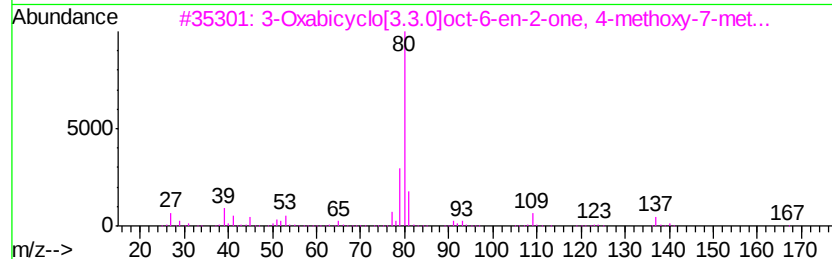
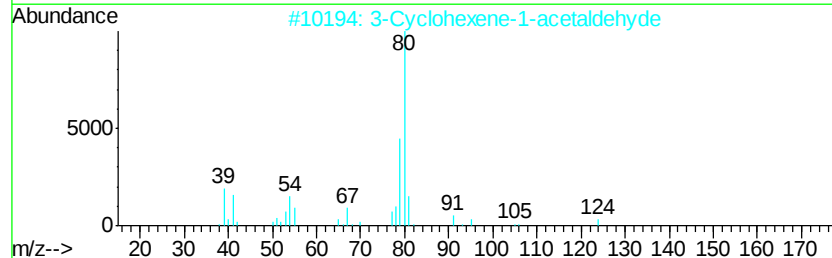
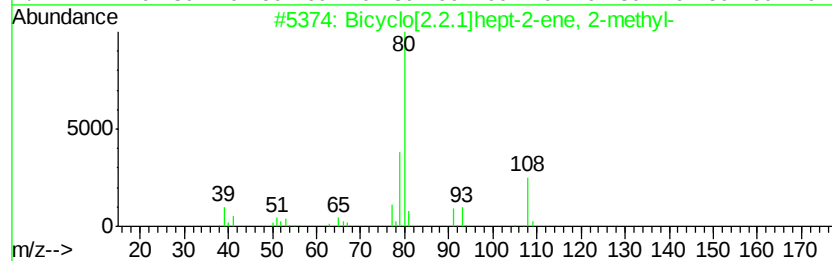
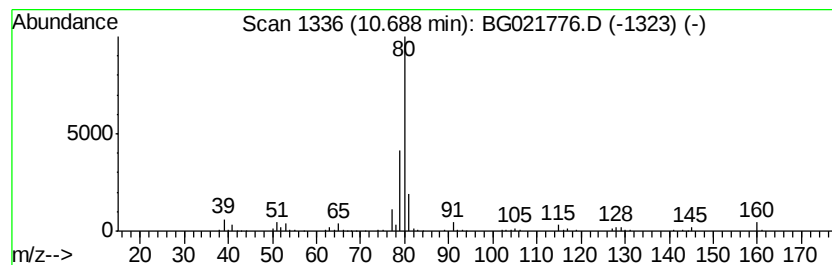
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Bicyclo[2.2.1]hept-2-ene, 2... Concentration Rank 8

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 10.69 | 20.92 ng | 268282 | Naphthalene-d8   | 11.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Bicyclo[2.2.1]hept-2-ene, 2-methyl- | 108 | C8H12   | 000694-92-8  | 83   |
| 2    |    | 3-Cyclohexene-1-acetaldehyde        | 124 | C8H12O  | 024480-99-7  | 83   |
| 3    |    | 3-Oxabicyclo[3.3.0]oct-6-en-2-on... | 168 | C9H12O3 | 1000155-62-0 | 74   |
| 4    |    | 1,2,4a,4b,7,8,8a,8b-Octahydrobip... | 160 | C12H16  | 062357-80-6  | 74   |
| 5    |    | Bicyclo[2.2.2]oct-2-ene             | 108 | C8H12   | 000931-64-6  | 74   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
Operator : UM/SJ  
Sample : H2617-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

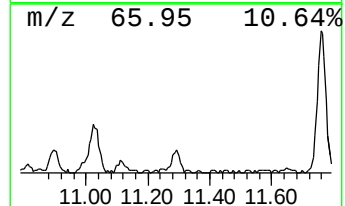
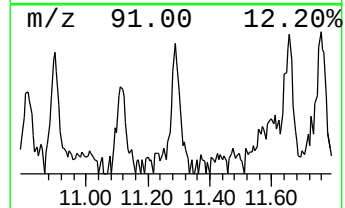
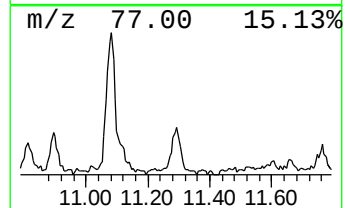
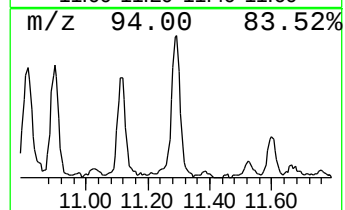
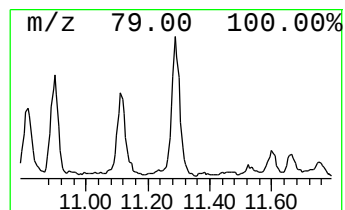
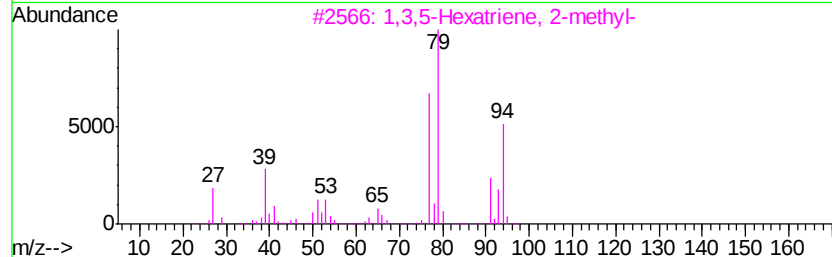
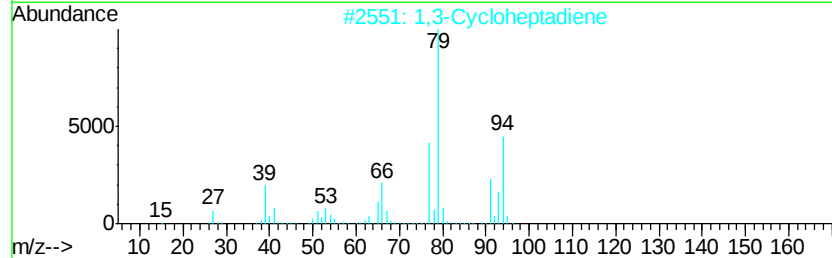
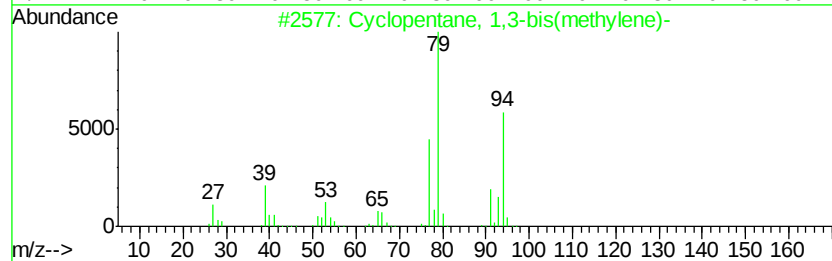
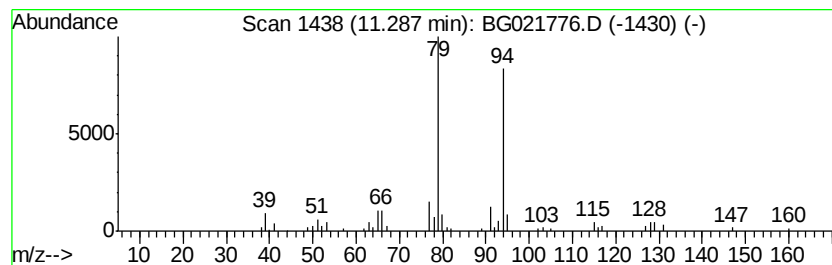
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Cyclopentane, 1,3-bis(methy... Concentration Rank 20

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.29 | 7.39 ng | 94745 | Naphthalene-d8   | 11.03 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Cyclopentane, 1,3-bis(methylene)-   | 94  | C7H10   | 059219-48-6  | 72   |
| 2    |    |   | 1,3-Cycloheptadiene                 | 94  | C7H10   | 004054-38-0  | 72   |
| 3    |    |   | 1,3,5-Hexatriene, 2-methyl-         | 94  | C7H10   | 019264-50-7  | 64   |
| 4    |    |   | Tricyclo[3.3.0.0(2,8)]octan-3-on... | 136 | C9H12O  | 1000150-71-8 | 56   |
| 5    |    |   | Cyclopentene, 3-ethenyl-            | 94  | C7H10   | 026727-45-7  | 50   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
Operator : UM/SJ  
Sample : H2617-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

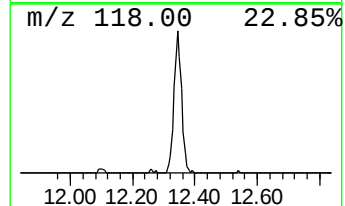
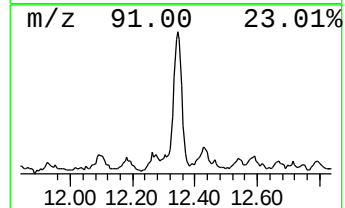
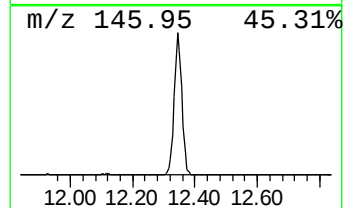
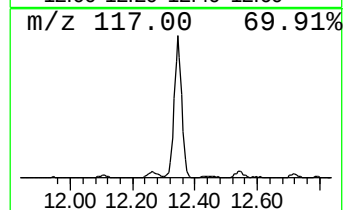
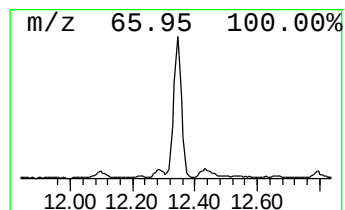
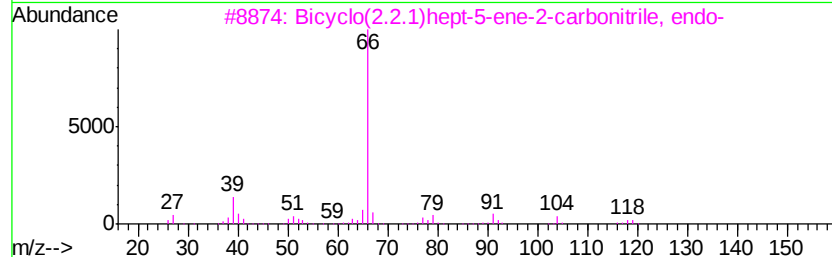
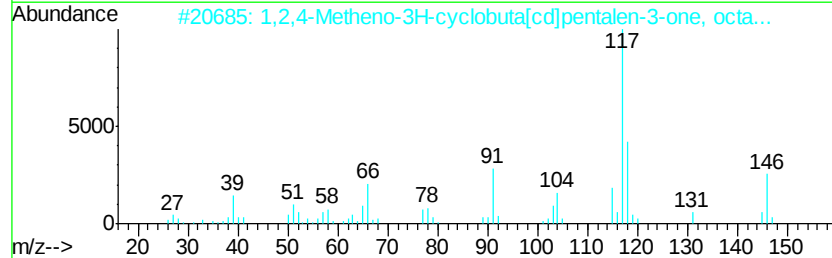
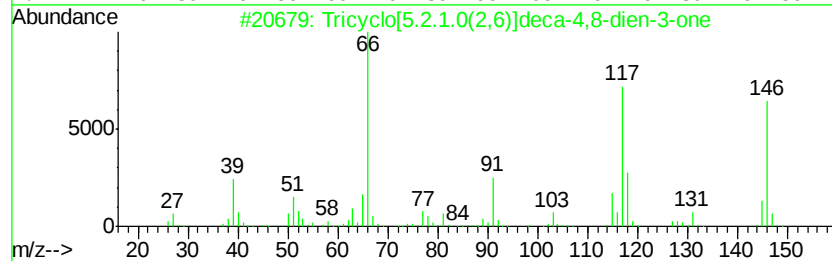
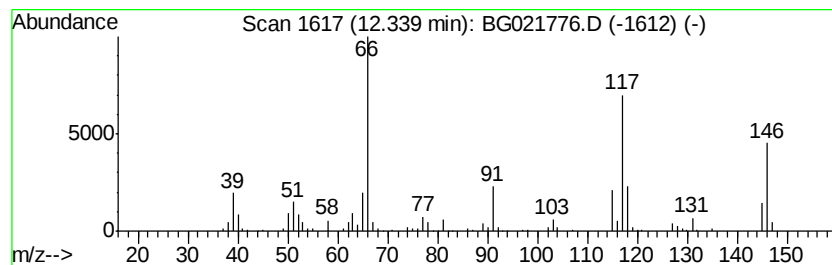
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Tricyclo[5.2.1.0(2,6)]deca-... Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.34 | 26.09 ng | 334530 | Naphthalene-d8   | 11.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Tricyclo[5.2.1.0(2,6)]deca-4,8-d... | 146 | C10H100 | 1000191-03-2 | 95   |
| 2    |    | 1,2,4-Metheno-3H-cyclobuta[cd]pe... | 146 | C10H100 | 015584-52-8  | 56   |
| 3    |    | Bicyclo(2.2.1)hept-5-ene-2-carbo... | 119 | C8H9N   | 002888-90-6  | 47   |
| 4    |    | Bicyclo[2.2.1]hept-5-ene-2-carbo... | 119 | C8H9N   | 000095-11-4  | 47   |
| 5    |    | 1-Buten-3-yne, 2-methyl-            | 66  | C5H6    | 000078-80-8  | 47   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
Operator : UM/SJ  
Sample : H2617-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

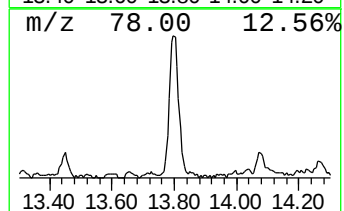
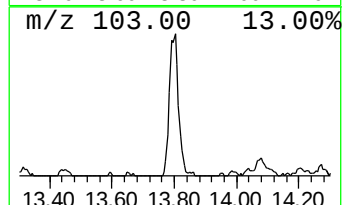
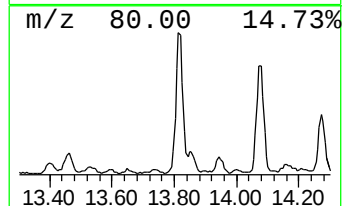
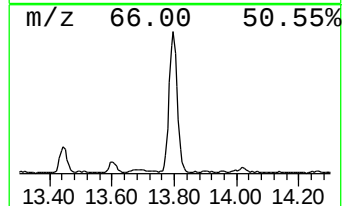
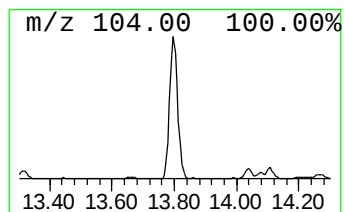
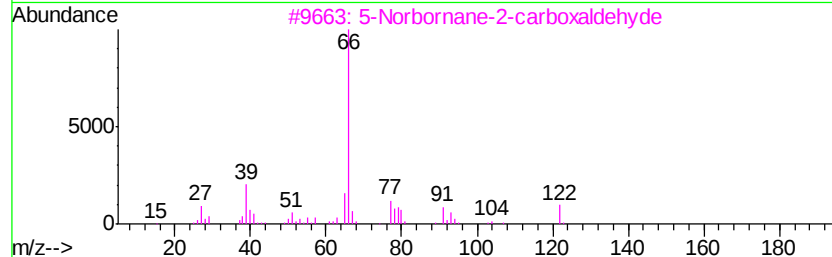
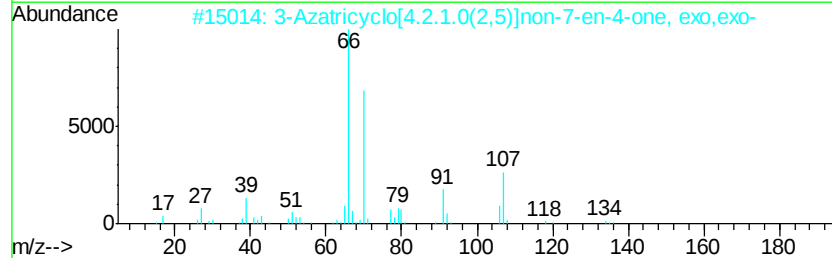
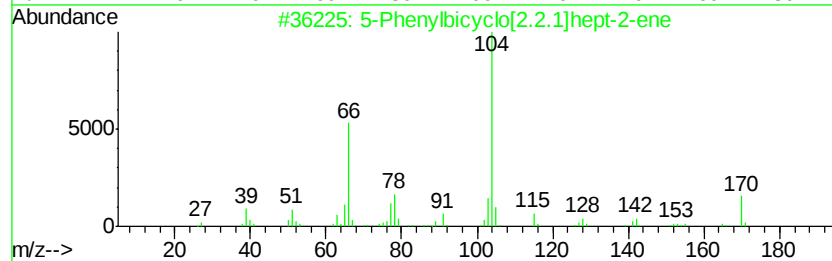
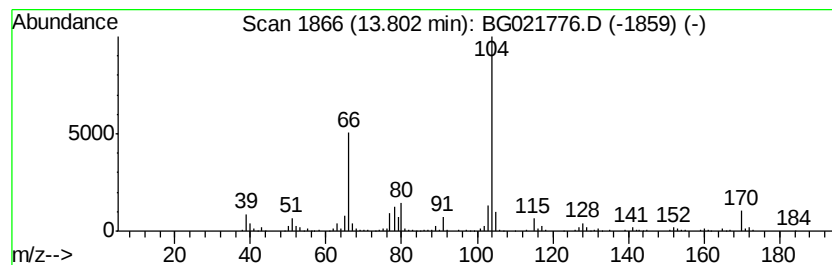
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 unknown13.80 Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.80 | 27.92 ng | 597434 | Acenaphthene-d10 | 14.82 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 5-Phenylbicyclo[2.2.1]hept-2-ene    | 170 | C13H14   | 006143-30-2 | 46   |
| 2    |    | 3-Azatricyclo[4.2.1.0(2,5)]non-7... | 135 | C8H9NO   | 014805-31-3 | 43   |
| 3    |    | 5-Norbornane-2-carboxaldehyde       | 122 | C8H10O   | 005453-80-5 | 43   |
| 4    |    | Methyl 3-exo-methylbicyclo[2.2.1... | 166 | C10H14O2 | 089577-04-8 | 43   |
| 5    |    | 2-Methylbicyclo[2.2.1]-5-heptene... | 152 | C9H12O2  | 000825-03-6 | 38   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
Operator : UM/SJ  
Sample : H2617-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

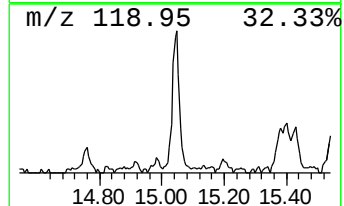
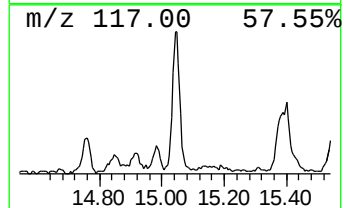
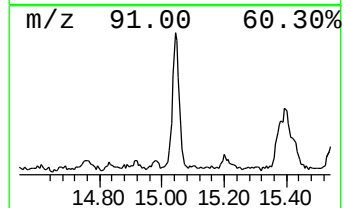
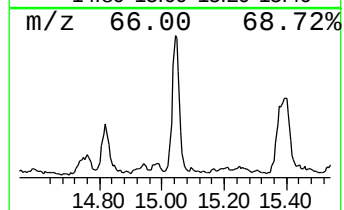
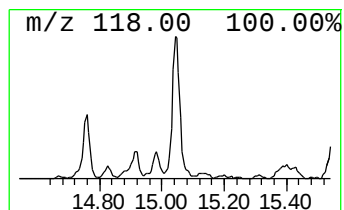
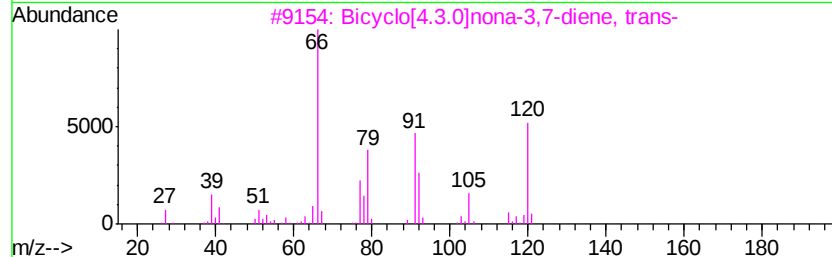
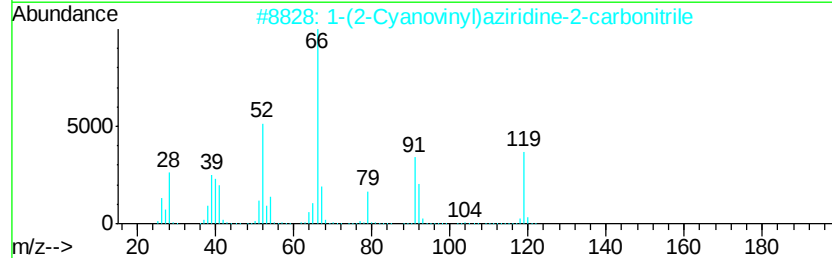
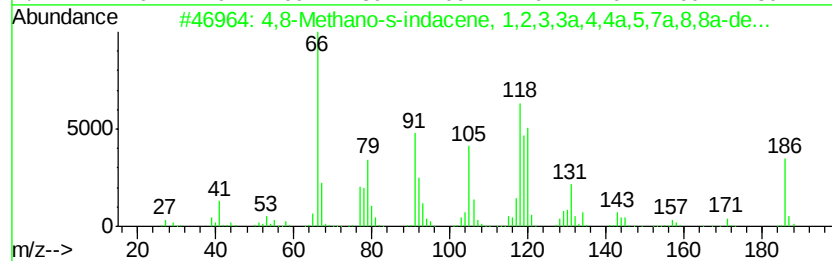
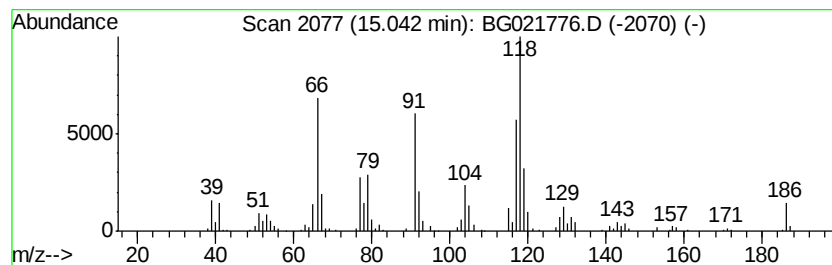
Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 18 4,8-Methano-s-indacene, 1,2... Concentration Rank 13

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------------|--------------|------------------|-----------|
| 15.04   | 11.28 ng                            | 241307       | Acenaphthene-d10 | 14.82     |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 4,8-Methano-s-indacene, 1,2,3,3a... | 186 C14H18   | 068284-26-4      | 53        |
| 2       | 1-(2-Cyanovinyl)aziridine-2-carb... | 119 C6H5N3   | 1000191-13-8     | 46        |
| 3       | Bicyclo[4.3.0]nona-3,7-diene, tr... | 120 C9H12    | 066563-20-0      | 43        |
| 4       | 4,7-Methano-1H-indenol, hexahydro-  | 150 C10H14O  | 037275-49-3      | 38        |
| 5       | Spiro[bicyclo[2.2.1]hept-5-ene-2... | 120 C9H12    | 006572-50-5      | 38        |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
Operator : UM/SJ  
Sample : H2617-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

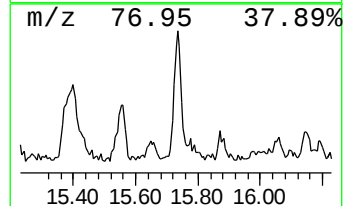
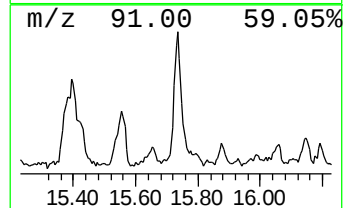
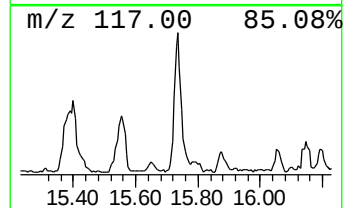
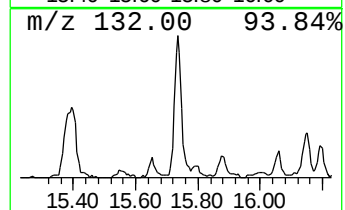
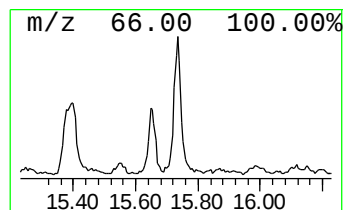
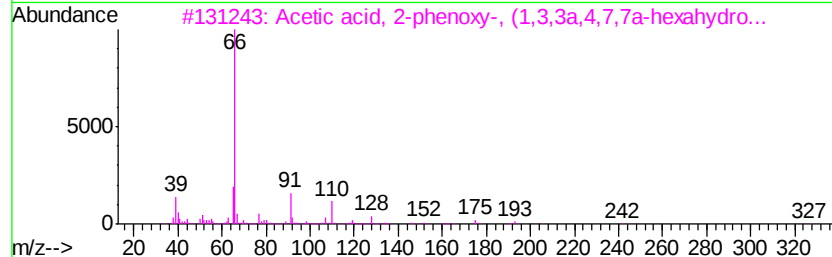
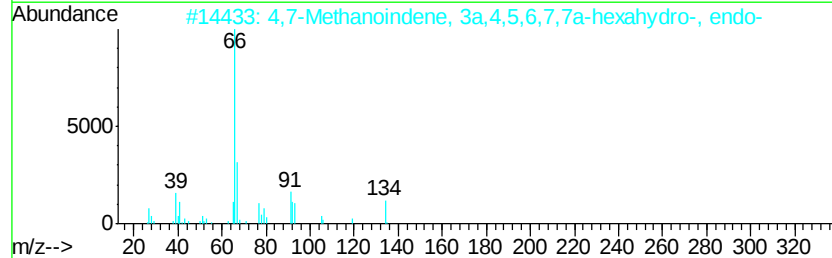
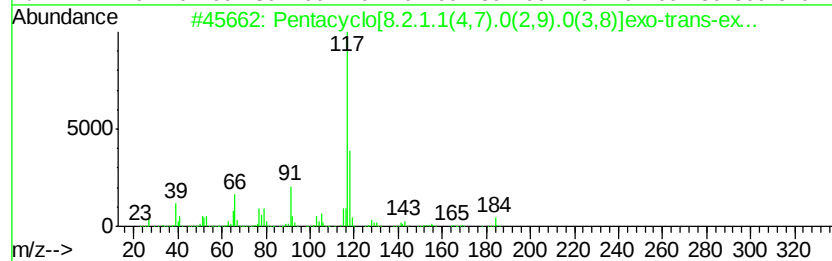
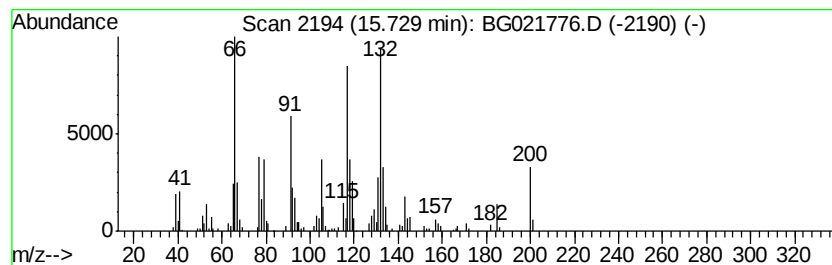
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Pentacyclo[8.2.1.1(4,7).0(2... Concentration Rank 12

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.73 | 12.97 ng | 277547 | Acenaphthene-d10 | 14.82 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Pentacyclo[8.2.1.1(4,7).0(2,9).0... | 184 | C14H16    | 002957-68-8  | 53   |
| 2    |    | 4,7-Methanoindene, 3a,4,5,6,7,7a... | 134 | C10H14    | 002825-86-7  | 43   |
| 3    |    | Acetic acid, 2-phenoxy-, (1,3,3a... | 327 | C18H17NO5 | 1000265-61-8 | 43   |
| 4    |    | 3-Hexenedinitrile                   | 106 | C6H6N2    | 001119-85-3  | 38   |
| 5    |    | 5,8-Dimethylenebicyclo[2.2.2]oct... | 132 | C10H12    | 1000210-64-8 | 38   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG042016\  
Data File : BG021776.D  
Acq On : 20 Apr 2016 4:54  
Operator : UM/SJ  
Sample : H2617-03  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

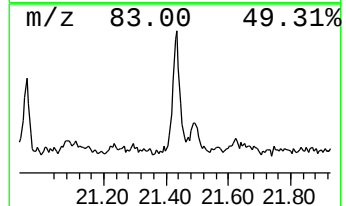
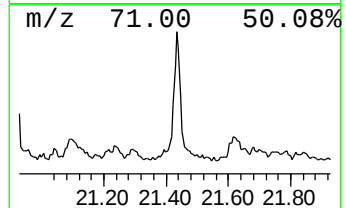
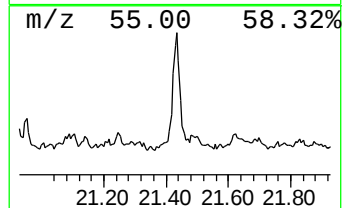
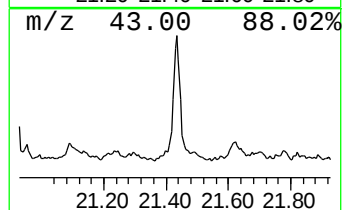
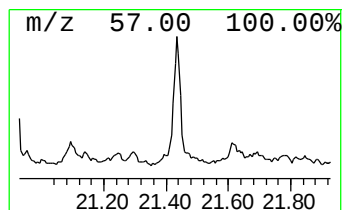
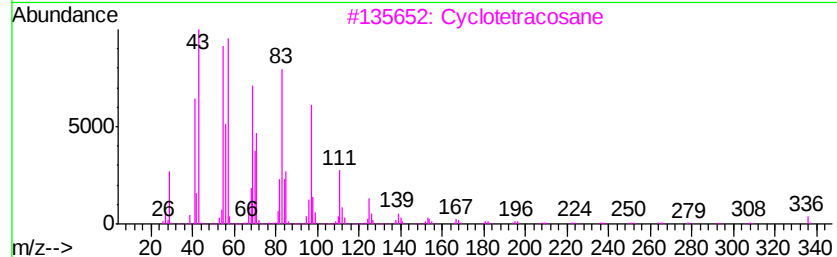
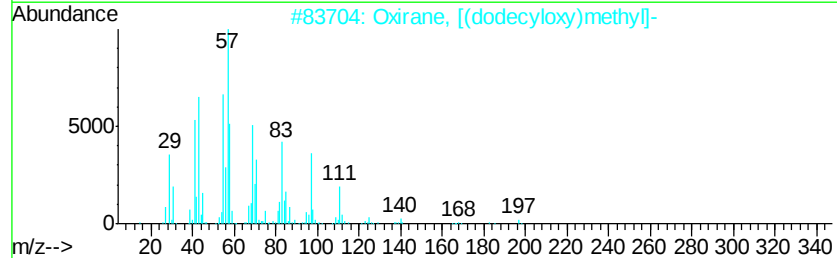
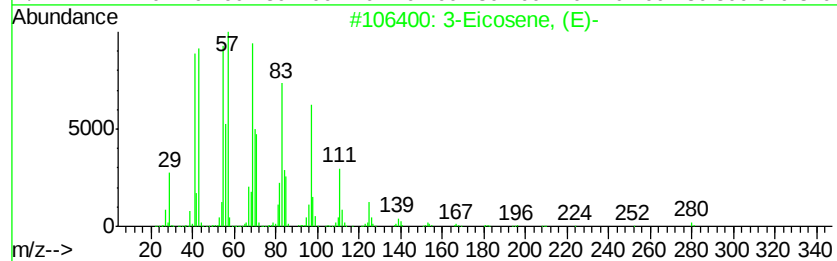
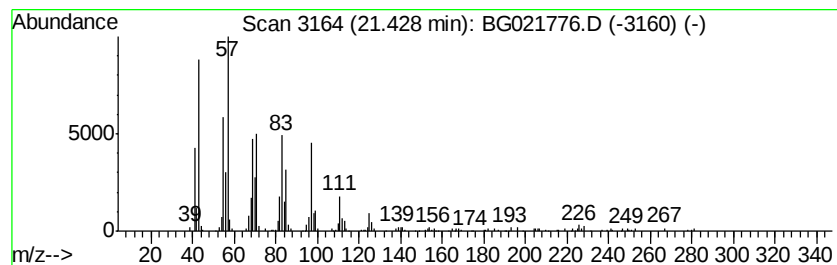
Instrument :  
BNA\_G  
ClientSampleId :  
B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 20 3-Eicosene, (E)- Concentration Rank 17

| R.T.    | EstConc                        | Area         | Relative to ISTD |          | R.T.        |      |
|---------|--------------------------------|--------------|------------------|----------|-------------|------|
| 21.43   | 8.82 ng                        | 246925       | Chrysene-d12     |          | 21.83       |      |
| Hit# of | 5                              | Tentative ID | MW               | MolForm  | CAS#        | Qual |
| 1       | 3-Eicosene, (E)-               |              | 280              | C20H40   | 074685-33-9 | 87   |
| 2       | Oxirane, [(dodecyloxy)methyl]- |              | 242              | C15H30O2 | 002461-18-9 | 74   |
| 3       | Cyclotetracosane               |              | 336              | C24H48   | 000297-03-0 | 68   |
| 4       | Undecane                       |              | 156              | C11H24   | 001120-21-4 | 64   |
| 5       | 1-Tetracosanol                 |              | 354              | C24H50O  | 000506-51-4 | 62   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG042016\  
 Data File : BG021776.D  
 Acq On : 20 Apr 2016 4:54  
 Operator : UM/SJ  
 Sample : H2617-03  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B-931EB(N)(8)

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| Propane, 2,2-dime... | 3.09  | 202.2   | ng    | 1890480  | 1                     | 8.21  | 186997 | 20.0 |
| 2-Pentanone, 4-hy... | 5.28  | 19.9    | ng    | 186482   | 1                     | 8.21  | 186997 | 20.0 |
| Indene               | 8.75  | 8.8     | ng    | 82385    | 1                     | 8.21  | 186997 | 20.0 |
| Bicyclo[2.2.2]oct... | 8.80  | 9.4     | ng    | 87501    | 1                     | 8.21  | 186997 | 20.0 |
| Cyclohexene, 4-ch... | 9.54  | 24.6    | ng    | 229705   | 1                     | 8.21  | 186997 | 20.0 |
| unknown10.10         | 10.10 | 20.2    | ng    | 258919   | 2                     | 11.03 | 256490 | 20.0 |
| 1,2,4a,4b,7,8,8a,... | 10.22 | 10.1    | ng    | 129398   | 2                     | 11.03 | 256490 | 20.0 |
| Bicyclo[2.2.1]hep... | 10.69 | 20.9    | ng    | 268282   | 2                     | 11.03 | 256490 | 20.0 |
| Cyclopentane, 1,3... | 11.29 | 7.4     | ng    | 94745    | 2                     | 11.03 | 256490 | 20.0 |
| Tricyclo[5.2.1.0(... | 12.34 | 26.1    | ng    | 334530   | 2                     | 11.03 | 256490 | 20.0 |
| unknown13.80         | 13.80 | 27.9    | ng    | 597434   | 3                     | 14.82 | 427993 | 20.0 |
| 4,8-Methano-s-ind... | 15.04 | 11.3    | ng    | 241307   | 3                     | 14.82 | 427993 | 20.0 |
| Pentacyclo[8.2.1...  | 15.73 | 13.0    | ng    | 277547   | 3                     | 14.82 | 427993 | 20.0 |
| 3-Eicosene, (E)-     | 21.43 | 8.8     | ng    | 246925   | 5                     | 21.83 | 560139 | 20.0 |