

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091917\  
 Data File : BF098644.D  
 Acq On : 19 Sep 2017 16:37  
 Operator : SJ/JU  
 Sample : I5113-02  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RL-1-0-12.25-SPLP

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\_F\METHODS\8270-BF091117.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         | 4.793       | 456           | 460         | 473          | rBV      | 796635         | 867804        | 48.35%          | 6.135%        |
| 2         | 6.622       | 767           | 771         | 778          | rBV      | 1101952        | 978783        | 54.53%          | 6.920%        |
| 3         | 6.781       | 794           | 798         | 810          | rBV      | 202116         | 220410        | 12.28%          | 1.558%        |
| 4         | 7.192       | 865           | 868         | 877          | rBV      | 175427         | 200271        | 11.16%          | 1.416%        |
| 5         | 7.910       | 984           | 990         | 993          | rBV      | 1499198        | 1422200       | 79.24%          | 10.055%       |
| 6         | 8.628       | 1109          | 1112        | 1117         | rVB      | 25188          | 23734         | 1.32%           | 0.168%        |
| 7         | 8.722       | 1125          | 1128        | 1133         | rVB      | 20984          | 19324         | 1.08%           | 0.137%        |
| 8         | 8.981       | 1166          | 1172        | 1181         | rVB      | 345143         | 353514        | 19.70%          | 2.499%        |
| 9         | 9.322       | 1226          | 1230        | 1233         | rBV2     | 19931          | 26995         | 1.50%           | 0.191%        |
| 10        | 9.428       | 1243          | 1248        | 1251         | rBV      | 35130          | 33252         | 1.85%           | 0.235%        |
| 11        | 9.481       | 1251          | 1257        | 1260         | rVV4     | 18802          | 24381         | 1.36%           | 0.172%        |
| 12        | 9.657       | 1279          | 1287        | 1291         | rBV      | 1541055        | 1551137       | 86.42%          | 10.966%       |
| 13        | 9.692       | 1291          | 1293        | 1297         | rVB2     | 57815          | 50684         | 2.82%           | 0.358%        |
| 14        | 9.869       | 1319          | 1323        | 1326         | rBV      | 22909          | 20736         | 1.16%           | 0.147%        |
| 15        | 10.063      | 1351          | 1356        | 1363         | rVB3     | 18315          | 28151         | 1.57%           | 0.199%        |
| 16        | 10.204      | 1377          | 1380        | 1386         | rVB      | 48015          | 47999         | 2.67%           | 0.339%        |
| 17        | 10.480      | 1419          | 1427        | 1432         | rBV      | 47131          | 53365         | 2.97%           | 0.377%        |
| 18        | 11.139      | 1534          | 1539        | 1542         | rBV      | 1695253        | 1684582       | 93.85%          | 11.910%       |
| 19        | 11.163      | 1542          | 1543        | 1546         | rVV      | 82026          | 54780         | 3.05%           | 0.387%        |
| 20        | 11.204      | 1546          | 1550        | 1554         | rVV3     | 35516          | 43340         | 2.41%           | 0.306%        |
| 21        | 11.251      | 1554          | 1558        | 1567         | rVB      | 345726         | 344698        | 19.20%          | 2.437%        |
| 22        | 11.363      | 1573          | 1577        | 1579         | rBV      | 170949         | 176185        | 9.82%           | 1.246%        |
| 23        | 11.380      | 1579          | 1580        | 1585         | rVB      | 104499         | 73891         | 4.12%           | 0.522%        |
| 24        | 11.522      | 1601          | 1604        | 1612         | rVB3     | 31236          | 47447         | 2.64%           | 0.335%        |
| 25        | 11.639      | 1621          | 1624        | 1628         | rVB      | 26796          | 22693         | 1.26%           | 0.160%        |
| 26        | 12.357      | 1742          | 1746        | 1753         | rVB3     | 21675          | 36012         | 2.01%           | 0.255%        |
| 27        | 12.551      | 1775          | 1779        | 1783         | rBV      | 47592          | 44552         | 2.48%           | 0.315%        |
| 28        | 12.627      | 1789          | 1792        | 1795         | rVB2     | 27149          | 21314         | 1.19%           | 0.151%        |
| 29        | 12.721      | 1802          | 1808        | 1811         | rBV      | 1283436        | 1091373       | 60.80%          | 7.716%        |
| 30        | 12.745      | 1811          | 1812        | 1818         | rVB      | 66914          | 48569         | 2.71%           | 0.343%        |
| 31        | 13.251      | 1895          | 1898        | 1902         | rBV2     | 39588          | 41613         | 2.32%           | 0.294%        |
| 32        | 13.780      | 1981          | 1988        | 1991         | rBV      | 1698638        | 1653394       | 92.12%          | 11.689%       |
| 33        | 14.404      | 2090          | 2094        | 2098         | rVB2     | 21308          | 20482         | 1.14%           | 0.145%        |
| 34        | 14.539      | 2112          | 2117        | 2123         | rBV      | 31503          | 32340         | 1.80%           | 0.229%        |

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Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RL-1-0-12.25-SPLP

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF091117.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 14.839 | 2165 | 2168 | 2172 | rBV  | 40137   | 46350   | 2.58%   | 0.328%  |
| 36 | 15.174 | 2218 | 2225 | 2237 | rBV  | 1459589 | 1794907 | 100.00% | 12.690% |
| 37 | 15.568 | 2287 | 2292 | 2299 | rVB  | 78206   | 112331  | 6.26%   | 0.794%  |
| 38 | 16.010 | 2360 | 2367 | 2374 | rBV2 | 112517  | 189176  | 10.54%  | 1.337%  |
| 39 | 16.527 | 2449 | 2455 | 2462 | rBV2 | 82554   | 153041  | 8.53%   | 1.082%  |
| 40 | 16.974 | 2526 | 2531 | 2542 | rVB2 | 14822   | 40703   | 2.27%   | 0.288%  |
| 41 | 17.139 | 2552 | 2559 | 2568 | rVB2 | 75401   | 181170  | 10.09%  | 1.281%  |
| 42 | 17.862 | 2673 | 2682 | 2692 | rBV4 | 49577   | 130027  | 7.24%   | 0.919%  |
| 43 | 18.715 | 2818 | 2827 | 2841 | rVB5 | 40432   | 136948  | 7.63%   | 0.968%  |

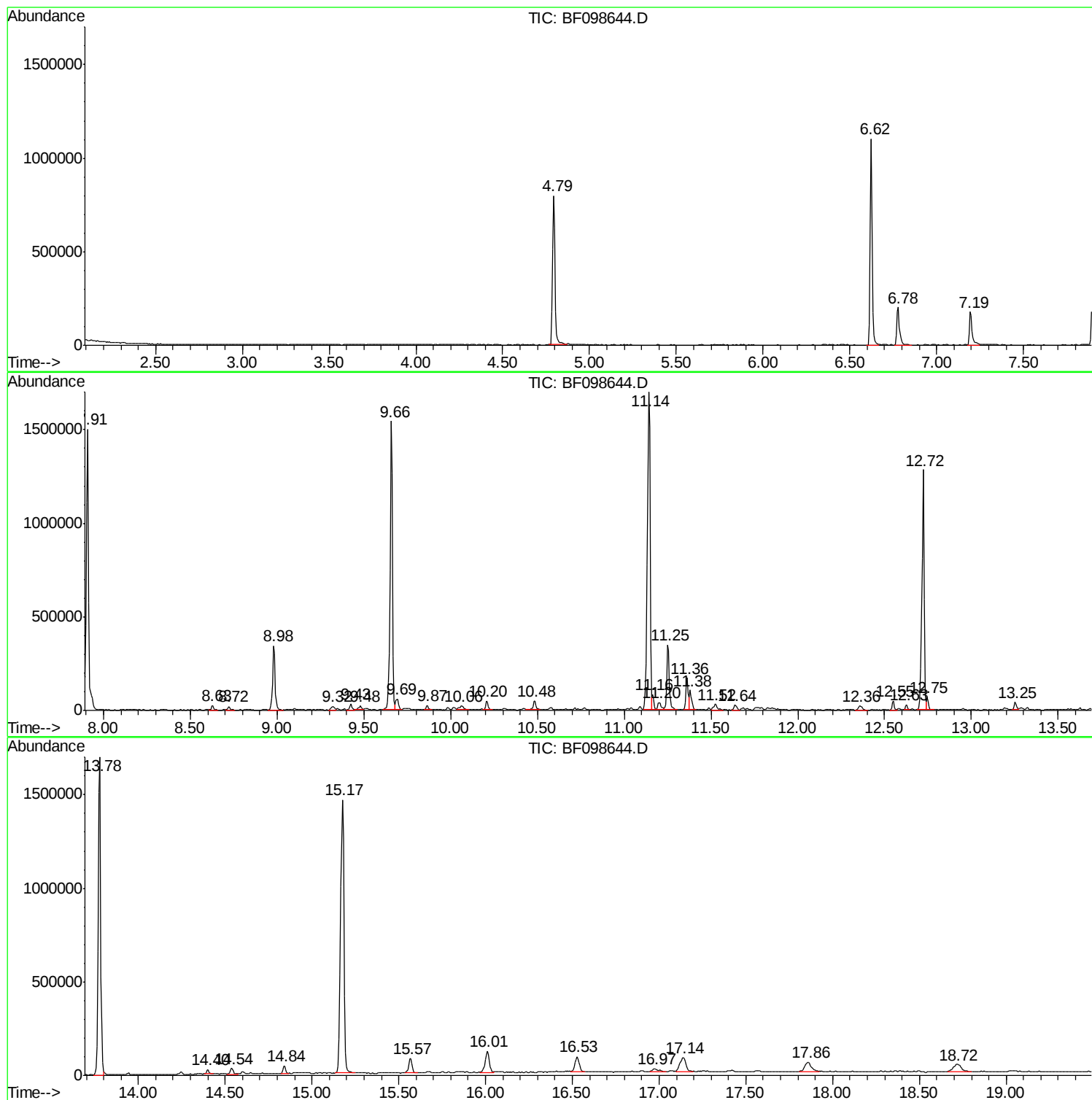
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF091117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF091117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

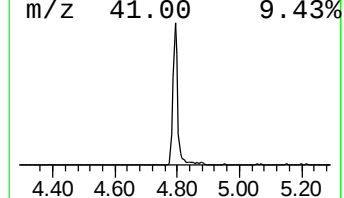
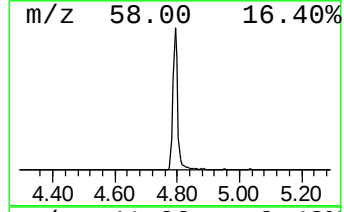
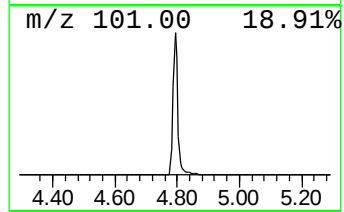
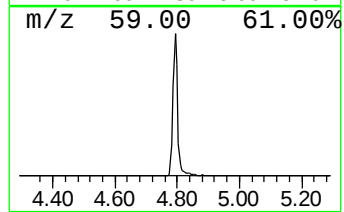
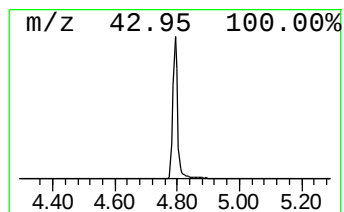
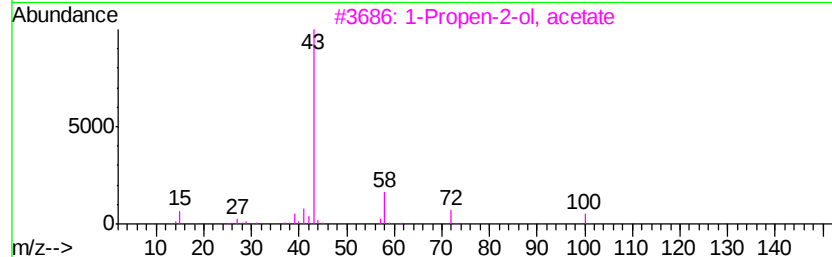
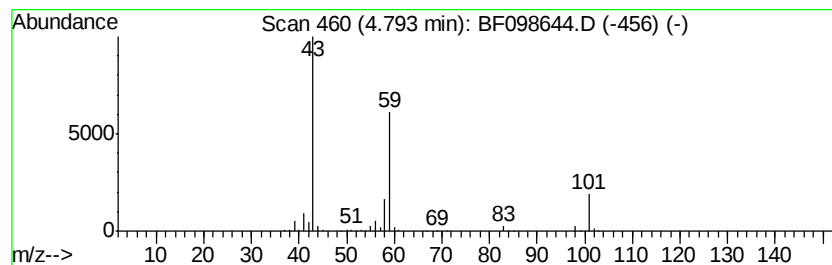
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.79 | 17.73 ng | 867804 | 1,4-Dichlorobenzene-d4 | 6.62 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 59   |
| 2    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 32   |
| 3    |    | 1-Propen-2-ol, acetate              | 100 | C5H8O2   | 000108-22-5 | 10   |
| 4    |    | Morpholine, 4-methyl-               | 101 | C5H11NO  | 000109-02-4 | 9    |
| 5    |    | 2,3-Butanedione, monooxime          | 101 | C4H7NO2  | 000057-71-6 | 9    |



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BNA\_F  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF091117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

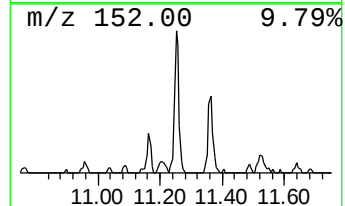
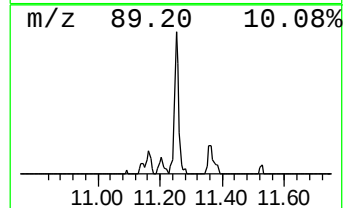
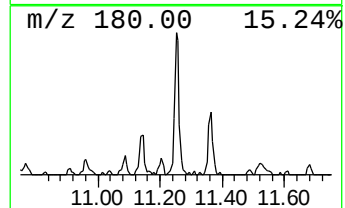
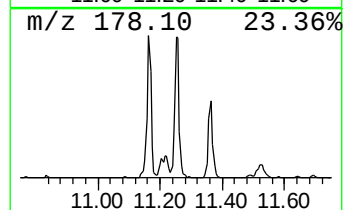
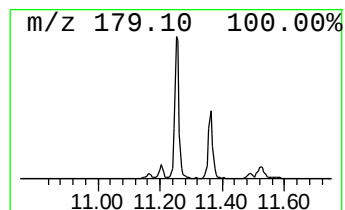
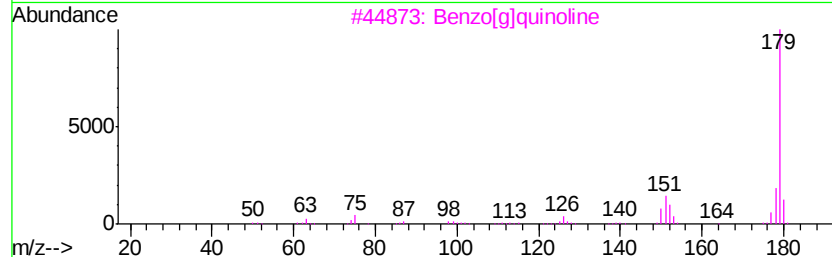
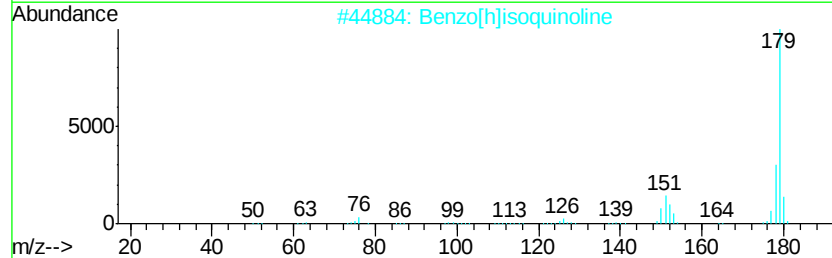
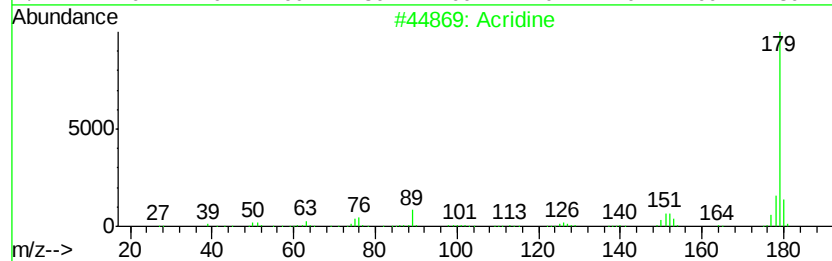
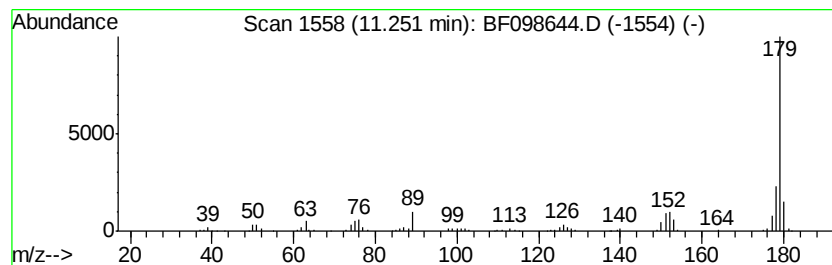
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Acridine Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.25 | 4.09 ng | 344698 | Phenanthrene-d10 | 11.14 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Acridine             | 179 | C13H9N  | 000260-94-6 | 96   |
| 2    |    | Benzo[h]isoquinoline | 179 | C13H9N  | 000229-71-0 | 93   |
| 3    |    | Benzo[g]quinoline    | 179 | C13H9N  | 000260-36-6 | 91   |
| 4    |    | Phenanthridine       | 179 | C13H9N  | 000229-87-8 | 91   |
| 5    |    | Benzo[h]quinoline    | 179 | C13H9N  | 000230-27-3 | 91   |



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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
RL-1-0-12.25-SPLP

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF091117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

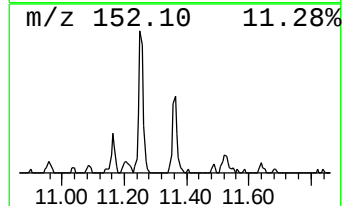
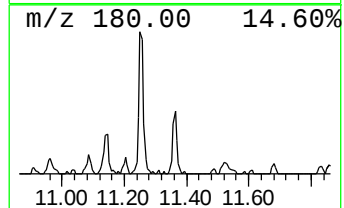
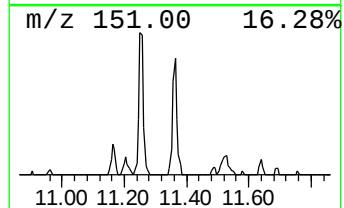
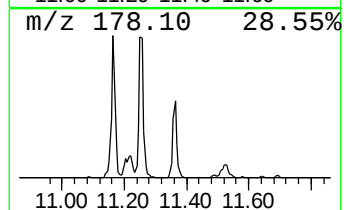
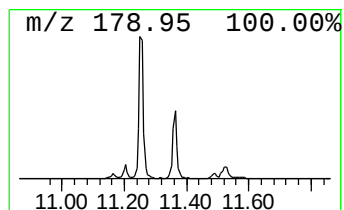
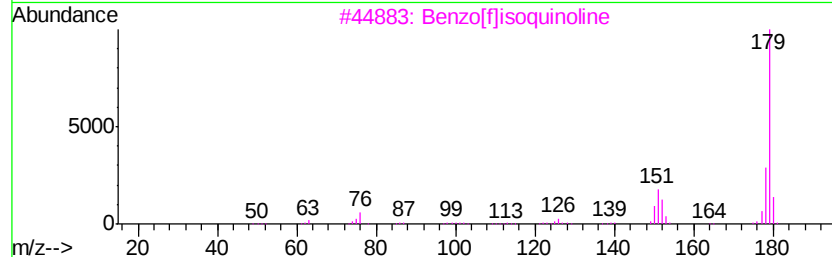
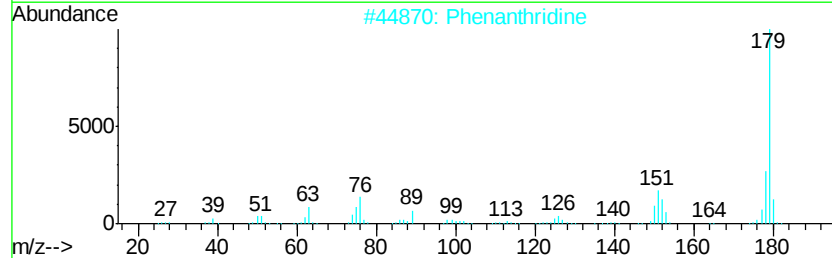
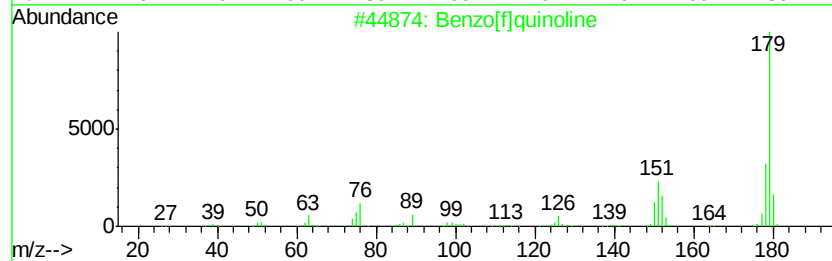
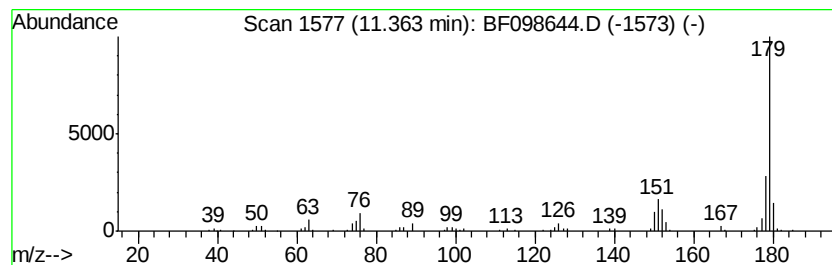
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Benzo[f]quinoline Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.36 | 2.09 ng | 176185 | Phenanthrene-d10 | 11.14 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[f]quinoline    | 179 | C13H9N  | 000085-02-9 | 97   |
| 2    |    | Phenanthridine       | 179 | C13H9N  | 000229-87-8 | 97   |
| 3    |    | Benzo[f]isoquinoline | 179 | C13H9N  | 000229-67-4 | 97   |
| 4    |    | Benzo[h]isoquinoline | 179 | C13H9N  | 000229-71-0 | 95   |
| 5    |    | Benzo[g]quinoline    | 179 | C13H9N  | 000260-36-6 | 95   |



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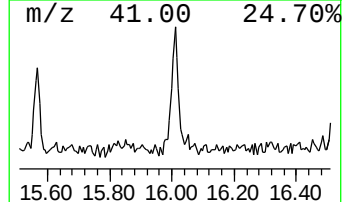
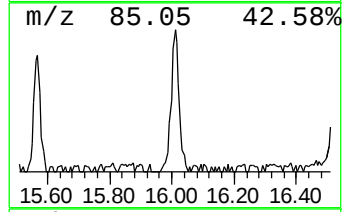
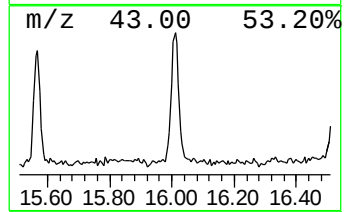
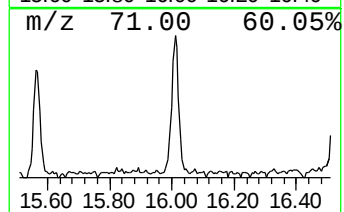
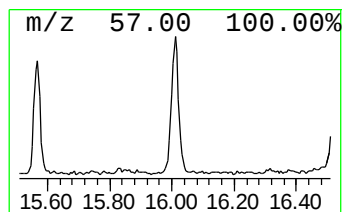
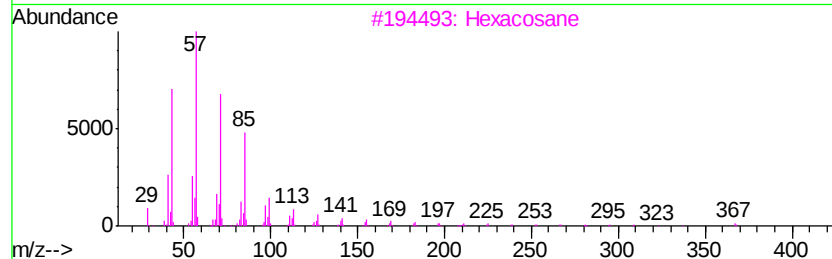
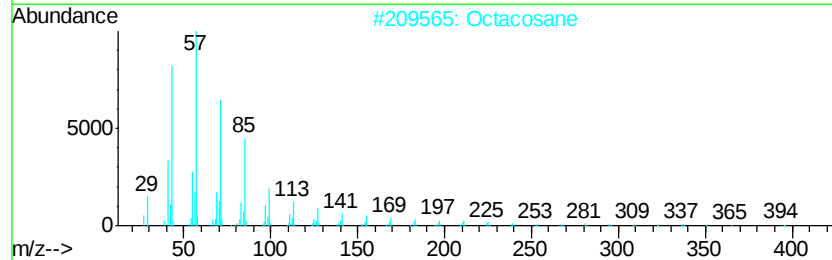
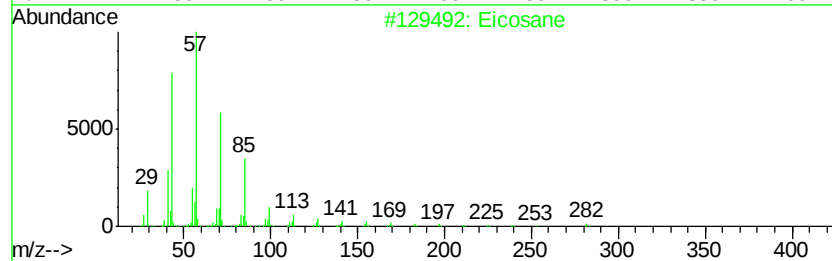
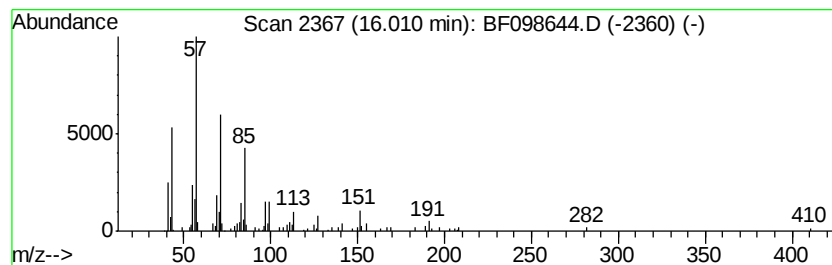
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Eicosane Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.01 | 2.11 ng | 189176 | Perylene-d12     | 15.17 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane              | 282 | C20H42  | 000112-95-8 | 91   |
| 2    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 87   |
| 3    |    | Hexacosane            | 366 | C26H54  | 000630-01-3 | 87   |
| 4    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 83   |
| 5    |    | Hentriacontane        | 437 | C31H64  | 000630-04-6 | 83   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 4.79  | 17.7    | ng    | 867804   | 1                     | 6.62  | 978783  | 20.0 |
| Acridine             | 11.25 | 4.1     | ng    | 344698   | 4                     | 11.14 | 1684580 | 20.0 |
| Benzo[f]quinoline    | 11.36 | 2.1     | ng    | 176185   | 4                     | 11.14 | 1684580 | 20.0 |
| Eicosane             | 16.01 | 2.1     | ng    | 189176   | 6                     | 15.17 | 1794910 | 20.0 |