

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF062220\  
 Data File : BF120691.D  
 Acq On : 22 Jun 2020 22:34  
 Operator : JU/CG  
 Sample : L3082-12  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-13

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061020.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         | 5.404       | 560           | 564         | 577          | rBV      | 1146604        | 1099353       | 26.03%          | 3.119%        |
| 2         | 6.428       | 734           | 738         | 747          | rBV      | 2218331        | 2188406       | 51.82%          | 6.209%        |
| 3         | 6.798       | 797           | 801         | 804          | rBV      | 963403         | 831968        | 19.70%          | 2.360%        |
| 4         | 6.951       | 823           | 827         | 831          | rBV      | 2957549        | 2600581       | 61.57%          | 7.378%        |
| 5         | 7.357       | 892           | 896         | 900          | rBV      | 1997955        | 2011532       | 47.63%          | 5.707%        |
| 6         | 8.081       | 1015          | 1019        | 1035         | rBV      | 1147867        | 1069478       | 25.32%          | 3.034%        |
| 7         | 9.157       | 1197          | 1202        | 1205         | rBV      | 4144324        | 3695907       | 87.51%          | 10.485%       |
| 8         | 9.545       | 1265          | 1268        | 1277         | rBV      | 314291         | 292642        | 6.93%           | 0.830%        |
| 9         | 9.692       | 1290          | 1293        | 1298         | rBV      | 98925          | 78273         | 1.85%           | 0.222%        |
| 10        | 9.833       | 1313          | 1317        | 1320         | rBV      | 1413041        | 1210056       | 28.65%          | 3.433%        |
| 11        | 9.863       | 1320          | 1322        | 1326         | rVB      | 84824          | 66775         | 1.58%           | 0.189%        |
| 12        | 10.380      | 1407          | 1410        | 1414         | rBV2     | 56739          | 52631         | 1.25%           | 0.149%        |
| 13        | 10.622      | 1447          | 1451        | 1462         | rVB      | 758948         | 725021        | 17.17%          | 2.057%        |
| 14        | 10.739      | 1467          | 1471        | 1476         | rBV4     | 42878          | 63300         | 1.50%           | 0.180%        |
| 15        | 11.186      | 1539          | 1547        | 1550         | rBV5     | 32214          | 45460         | 1.08%           | 0.129%        |
| 16        | 11.321      | 1566          | 1570        | 1572         | rBV      | 1390388        | 1393690       | 33.00%          | 3.954%        |
| 17        | 11.339      | 1572          | 1573        | 1577         | rVV      | 658218         | 508366        | 12.04%          | 1.442%        |
| 18        | 11.392      | 1580          | 1582        | 1585         | rVB      | 140698         | 112093        | 2.65%           | 0.318%        |
| 19        | 11.551      | 1603          | 1609        | 1614         | rBV2     | 77379          | 95682         | 2.27%           | 0.271%        |
| 20        | 11.821      | 1650          | 1655        | 1657         | rBV      | 69211          | 64453         | 1.53%           | 0.183%        |
| 21        | 11.845      | 1657          | 1659        | 1663         | rVB      | 88351          | 81986         | 1.94%           | 0.233%        |
| 22        | 11.933      | 1670          | 1674        | 1676         | rBV      | 130888         | 130994        | 3.10%           | 0.372%        |
| 23        | 12.116      | 1702          | 1705        | 1707         | rBV      | 57232          | 45843         | 1.09%           | 0.130%        |
| 24        | 12.139      | 1707          | 1709        | 1713         | rVB      | 78590          | 64205         | 1.52%           | 0.182%        |
| 25        | 12.368      | 1745          | 1748        | 1751         | rBV      | 49245          | 49964         | 1.18%           | 0.142%        |
| 26        | 12.457      | 1760          | 1763        | 1767         | rVB2     | 58762          | 62138         | 1.47%           | 0.176%        |
| 27        | 12.533      | 1772          | 1776        | 1779         | rVV      | 1194818        | 1035705       | 24.52%          | 2.938%        |
| 28        | 12.680      | 1794          | 1801        | 1803         | rBV3     | 39090          | 73176         | 1.73%           | 0.208%        |
| 29        | 12.763      | 1808          | 1815        | 1818         | rVV      | 1033994        | 1121464       | 26.55%          | 3.182%        |
| 30        | 12.810      | 1820          | 1823        | 1828         | rVB2     | 48020          | 58058         | 1.37%           | 0.165%        |
| 31        | 12.910      | 1835          | 1840        | 1843         | rVB      | 4304962        | 4223442       | 100.00%         | 11.982%       |
| 32        | 12.986      | 1847          | 1853        | 1855         | rBV2     | 71582          | 113367        | 2.68%           | 0.322%        |
| 33        | 13.086      | 1868          | 1870        | 1874         | rVB      | 149383         | 141689        | 3.35%           | 0.402%        |
| 34        | 13.157      | 1874          | 1882        | 1884         | rBV      | 110866         | 145620        | 3.45%           | 0.413%        |

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 Sample : L3082-12  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061020.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 13.192 | 1884 | 1888 | 1891 | rBV2 | 127615  | 129519  | 3.07%  | 0.367% |
| 36 | 13.286 | 1901 | 1904 | 1907 | rVB  | 75882   | 60712   | 1.44%  | 0.172% |
| 37 | 13.315 | 1907 | 1909 | 1913 | rVB  | 65320   | 58324   | 1.38%  | 0.165% |
| 38 | 13.480 | 1932 | 1937 | 1938 | rBV4 | 41098   | 68028   | 1.61%  | 0.193% |
| 39 | 13.598 | 1954 | 1957 | 1961 | rVB  | 94763   | 105108  | 2.49%  | 0.298% |
| 40 | 13.710 | 1970 | 1976 | 1978 | rBV3 | 96917   | 143258  | 3.39%  | 0.406% |
| 41 | 13.733 | 1978 | 1980 | 1982 | rVV  | 94594   | 87884   | 2.08%  | 0.249% |
| 42 | 13.757 | 1982 | 1984 | 1989 | rVV2 | 91991   | 137460  | 3.25%  | 0.390% |
| 43 | 13.804 | 1989 | 1992 | 2002 | rVB2 | 269065  | 405973  | 9.61%  | 1.152% |
| 44 | 13.957 | 2011 | 2018 | 2021 | rBV2 | 1564532 | 2148678 | 50.88% | 6.096% |
| 45 | 13.986 | 2021 | 2023 | 2029 | rVB  | 583479  | 498294  | 11.80% | 1.414% |
| 46 | 14.062 | 2034 | 2036 | 2038 | rVB  | 82034   | 61325   | 1.45%  | 0.174% |
| 47 | 14.345 | 2080 | 2084 | 2087 | rVB  | 134524  | 130022  | 3.08%  | 0.369% |
| 48 | 14.380 | 2087 | 2090 | 2094 | rVB2 | 77689   | 74702   | 1.77%  | 0.212% |
| 49 | 14.433 | 2094 | 2099 | 2102 | rBV4 | 93758   | 160825  | 3.81%  | 0.456% |
| 50 | 14.468 | 2102 | 2105 | 2107 | rVV  | 100259  | 108380  | 2.57%  | 0.307% |
| 51 | 14.492 | 2107 | 2109 | 2113 | rVB3 | 85891   | 78304   | 1.85%  | 0.222% |
| 52 | 14.651 | 2133 | 2136 | 2138 | rBV3 | 43127   | 46599   | 1.10%  | 0.132% |
| 53 | 14.727 | 2147 | 2149 | 2152 | rBV  | 71093   | 70150   | 1.66%  | 0.199% |
| 54 | 14.804 | 2159 | 2162 | 2164 | rBV  | 58737   | 65732   | 1.56%  | 0.186% |
| 55 | 14.986 | 2189 | 2193 | 2196 | rBV  | 711100  | 995652  | 23.57% | 2.825% |
| 56 | 15.057 | 2203 | 2205 | 2208 | rVV  | 71888   | 66829   | 1.58%  | 0.190% |
| 57 | 15.092 | 2208 | 2211 | 2214 | rVB  | 143910  | 140012  | 3.32%  | 0.397% |
| 58 | 15.280 | 2239 | 2243 | 2249 | rVB  | 439681  | 549918  | 13.02% | 1.560% |
| 59 | 15.339 | 2249 | 2253 | 2259 | rBV  | 544118  | 665000  | 15.75% | 1.887% |
| 60 | 15.404 | 2259 | 2264 | 2267 | rBV  | 1032016 | 1285348 | 30.43% | 3.647% |
| 61 | 15.433 | 2267 | 2269 | 2275 | rVB2 | 223675  | 265383  | 6.28%  | 0.753% |
| 62 | 16.821 | 2499 | 2505 | 2514 | rVB2 | 268367  | 497233  | 11.77% | 1.411% |
| 63 | 17.056 | 2541 | 2545 | 2549 | rBV2 | 33563   | 56287   | 1.33%  | 0.160% |
| 64 | 17.250 | 2572 | 2578 | 2588 | rVB  | 214562  | 427246  | 10.12% | 1.212% |
| 65 | 17.474 | 2612 | 2616 | 2624 | rBV  | 48761   | 107043  | 2.53%  | 0.304% |

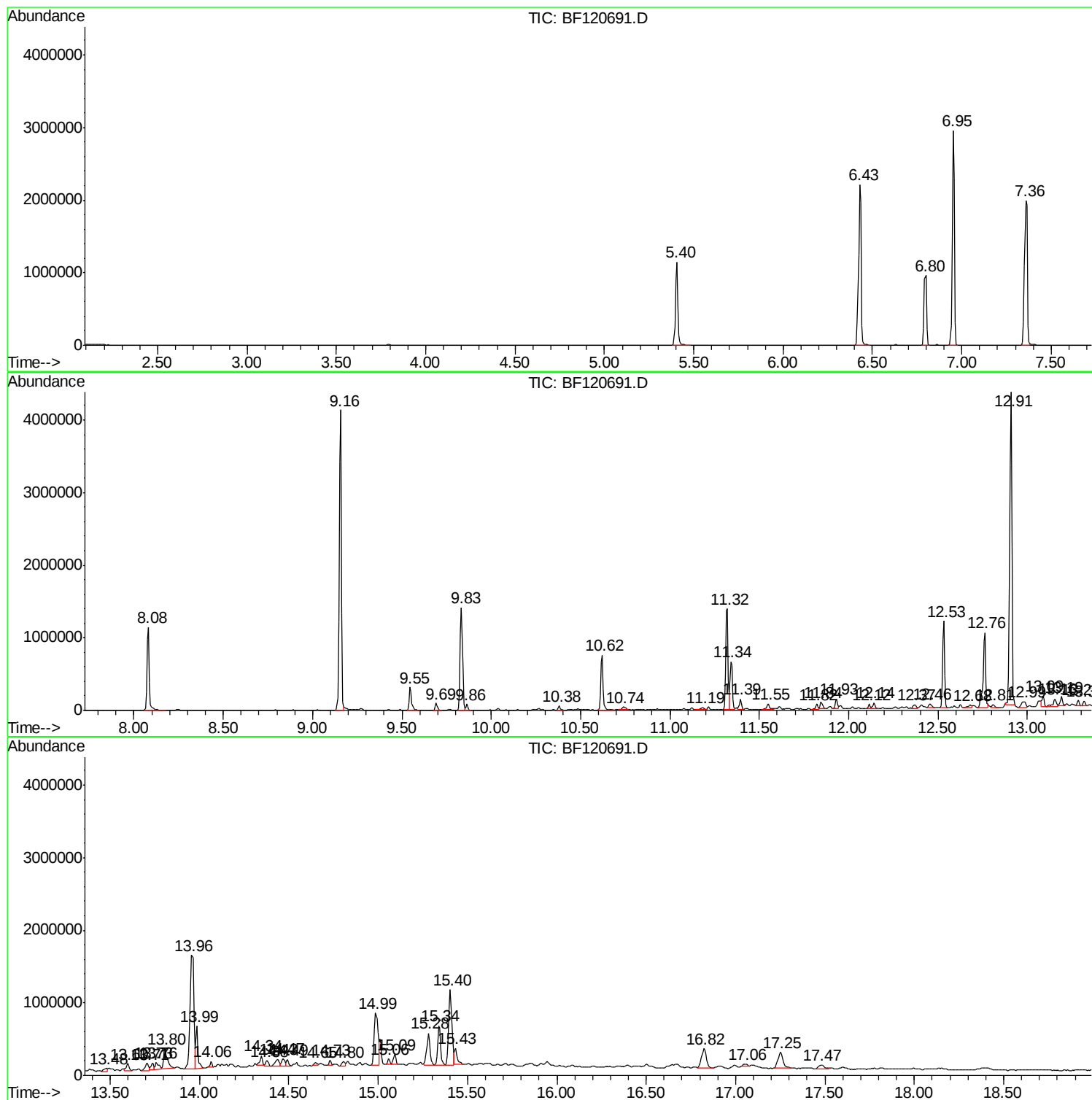
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Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SB-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062220\  
Data File : BF120691.D  
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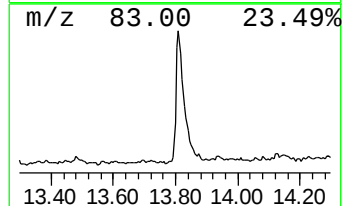
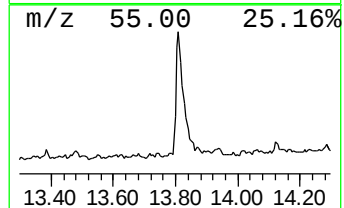
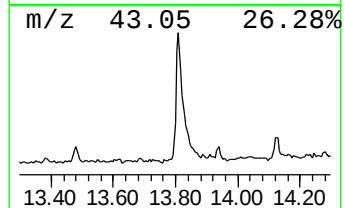
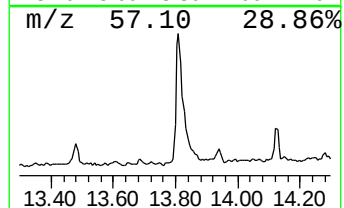
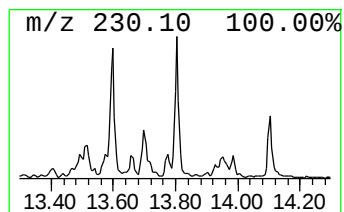
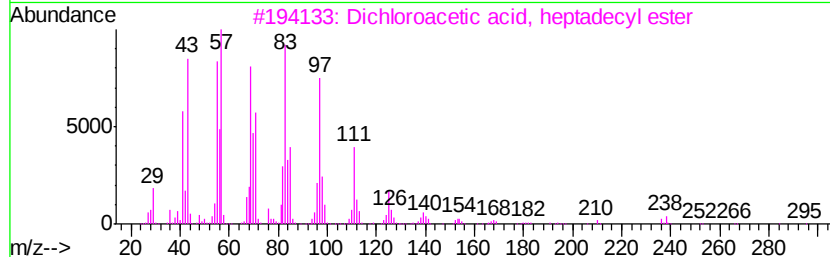
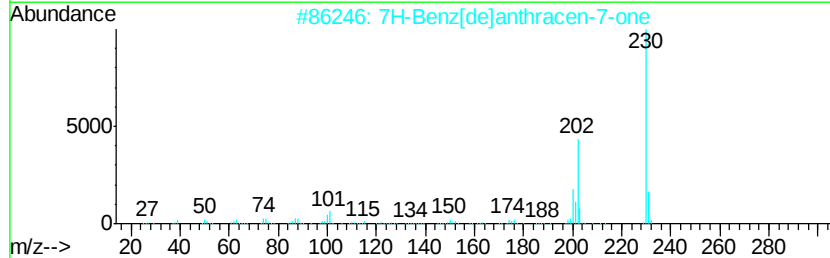
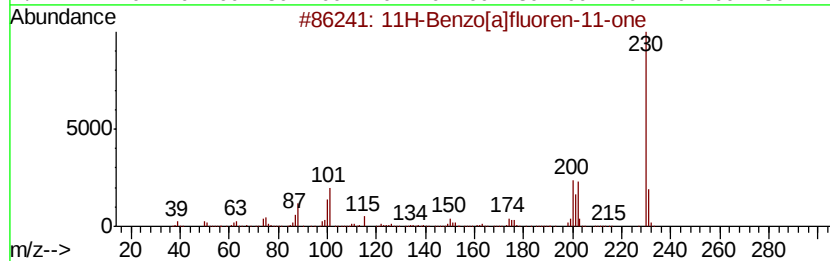
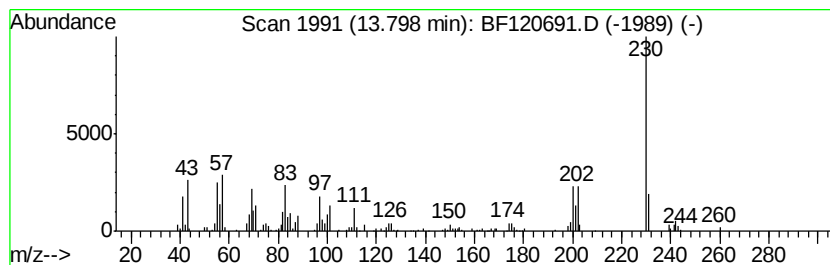
Instrument :  
BNA\_F  
ClientSampleId :  
SB-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061020.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 2 11H-Benzo[a]fluoren-11-one Concentration Rank 3

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.        |              |      |
|---------|---------|-------------------------------------|------------------|-------------|--------------|------|
| 13.80   | 3.78 ng | 405973                              | Chrysene-d12     | 13.96       |              |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm     | CAS#         | Qual |
| 1       |         | 11H-Benzo[a]fluoren-11-one          | 230              | C17H10O     | 000479-79-8  | 92   |
| 2       |         | 7H-Benz[de]anthracen-7-one          | 230              | C17H10O     | 000082-05-3  | 49   |
| 3       |         | Dichloroacetic acid, heptadecyl ... | 366              | C19H36Cl2O2 | 1000282-98-2 | 38   |
| 4       |         | Heptadecyl heptafluorobutyrate      | 452              | C21H35F7O2  | 959085-66-6  | 38   |
| 5       |         | n-Tetracosanol-1                    | 354              | C24H50O     | 000506-51-4  | 38   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

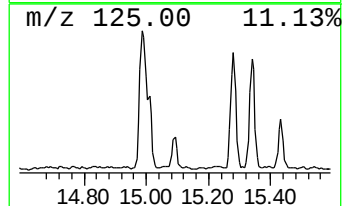
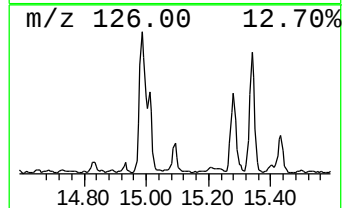
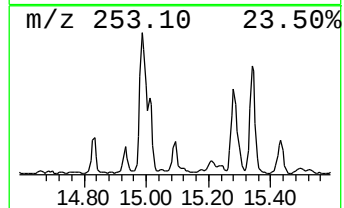
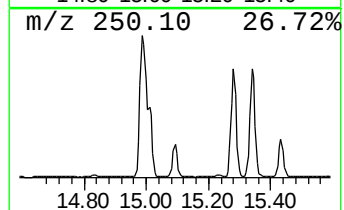
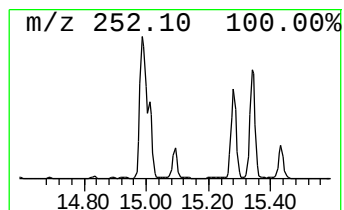
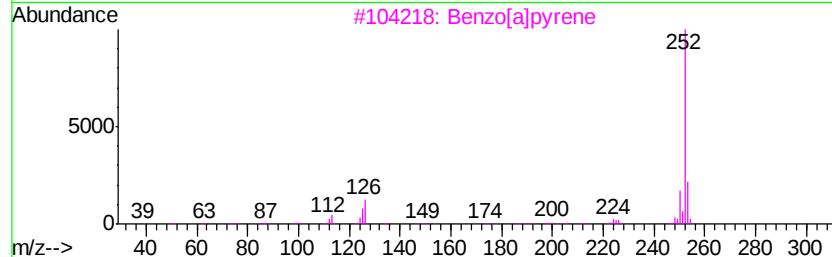
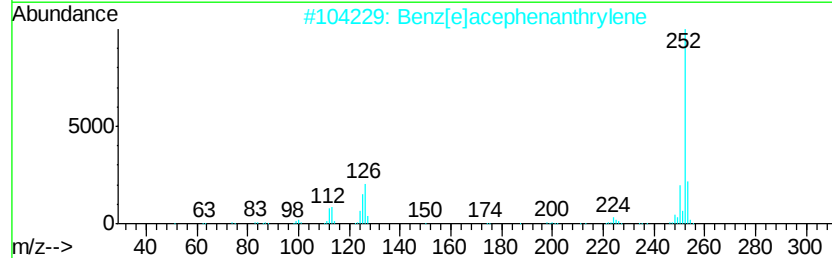
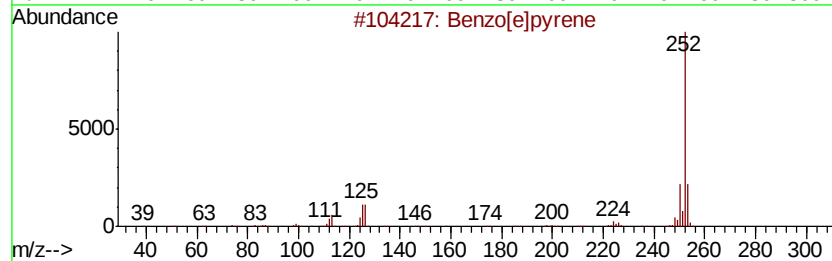
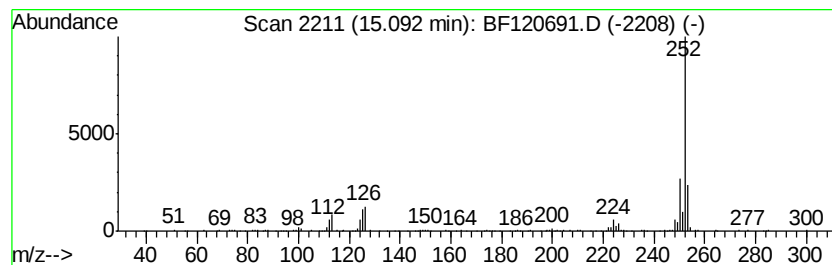
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzo[e]pyrene Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.09 | 2.18 ng | 140012 | Perylene-d12     | 15.40 |

| Hit# of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------------|-----|---------|-------------|------|
| 1       |   | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 97   |
| 2       |   | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 94   |
| 3       |   | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 93   |
| 4       |   | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 91   |
| 5       |   | Perylene                  | 252 | C20H12  | 000198-55-0 | 90   |



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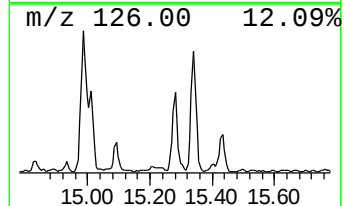
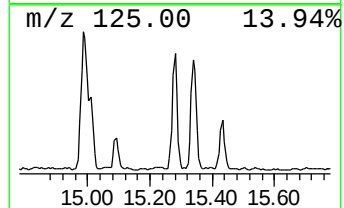
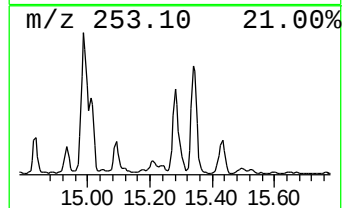
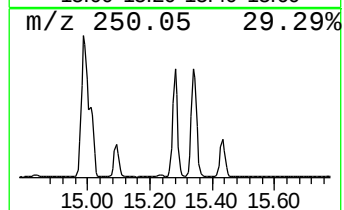
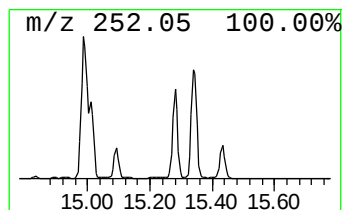
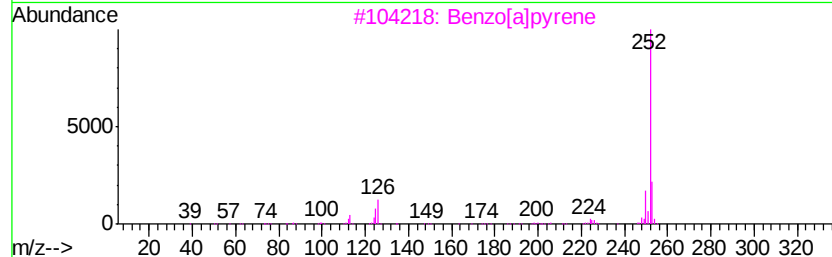
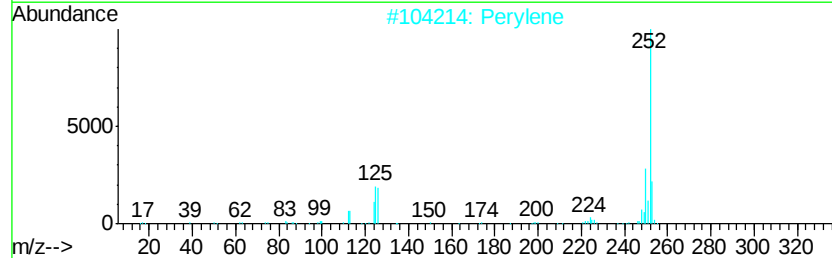
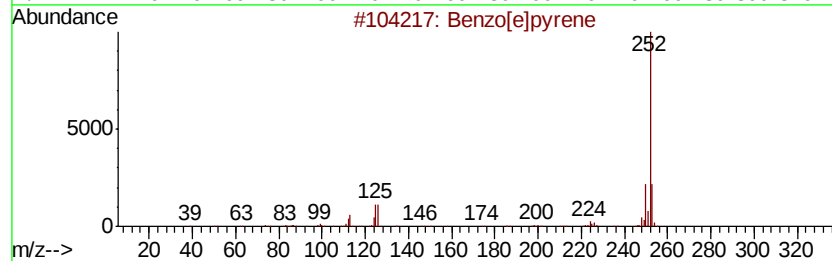
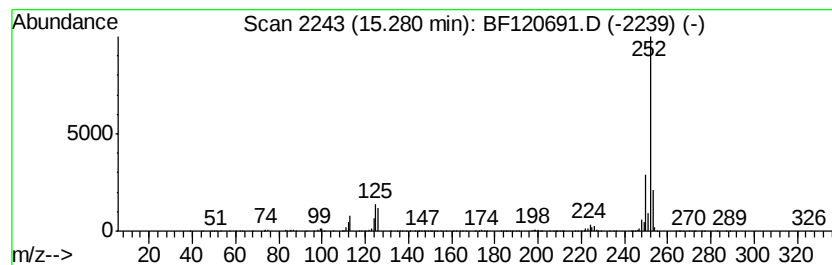
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Perylene Concentration Rank 2

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.28 | 8.56 ng | 549918 | Perylene-d12     | 15.40 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------|-----|---------|-------------|------|
| 1       |   | Benzo[el]pvrene         | 252 | C20H12  | 000192-97-2 | 99   |
| 2       |   | Perylene                | 252 | C20H12  | 000198-55-0 | 97   |
| 3       |   | Benzo[al]pvrene         | 252 | C20H12  | 000050-32-8 | 97   |
| 4       |   | Benz[e]laphenanthrylene | 252 | C20H12  | 000205-99-2 | 96   |
| 5       |   | Benzo[j]fluoranthene    | 252 | C20H12  | 000205-82-3 | 95   |



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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 |
| 11H-Benzo[a]fluor... | 13.80 | 3.8     | ng    | 405973   | 5                     | 13.96 | 2148680 | 20.0 |
| Benzo[e]pyrene       | 15.09 | 2.2     | ng    | 140012   | 6                     | 15.40 | 1285350 | 20.0 |
| Perylene             | 15.28 | 8.6     | ng    | 549918   | 6                     | 15.40 | 1285350 | 20.0 |