

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF070925\  
 Data File : BF143067.D  
 Acq On : 09 Jul 2025 20:34  
 Operator : RC/JU  
 Sample : Q2487-16 5X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G1(6-12)

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:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061925.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF143067.D\data.ms

| 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         | 5.075       | 485           | 490         | 496          | rBV      | 4703           | 7723          | 1.24%           | 0.183%        |
| 2         | 5.487       | 556           | 560         | 578          | rBV      | 58235          | 95300         | 15.36%          | 2.261%        |
| 3         | 6.110       | 660           | 666         | 673          | rBV3     | 3123           | 6503          | 1.05%           | 0.154%        |
| 4         | 6.504       | 729           | 733         | 742          | rBV      | 63271          | 99842         | 16.09%          | 2.369%        |
| 5         | 6.869       | 791           | 795         | 801          | rBV      | 202498         | 250696        | 40.40%          | 5.949%        |
| 6         | 7.398       | 879           | 885         | 887          | rBV4     | 4882           | 8147          | 1.31%           | 0.193%        |
| 7         | 7.434       | 887           | 891         | 899          | rVV      | 43651          | 65867         | 10.62%          | 1.563%        |
| 8         | 7.769       | 942           | 948         | 950          | rBV4     | 3886           | 6244          | 1.01%           | 0.148%        |
| 9         | 8.157       | 1006          | 1014        | 1020         | rBV      | 242753         | 312871        | 50.42%          | 7.424%        |
| 10        | 8.210       | 1020          | 1023        | 1026         | rVB2     | 6739           | 8408          | 1.36%           | 0.200%        |
| 11        | 8.569       | 1080          | 1084        | 1096         | rVB2     | 5967           | 10198         | 1.64%           | 0.242%        |
| 12        | 8.969       | 1148          | 1152        | 1156         | rVB      | 4578           | 6548          | 1.06%           | 0.155%        |
| 13        | 9.169       | 1179          | 1186        | 1192         | rBV3     | 4717           | 6985          | 1.13%           | 0.166%        |
| 14        | 9.228       | 1192          | 1196        | 1203         | rVV      | 90320          | 110226        | 17.76%          | 2.615%        |
| 15        | 9.569       | 1248          | 1254        | 1257         | rVV      | 7101           | 10394         | 1.68%           | 0.247%        |
| 16        | 9.910       | 1307          | 1312        | 1317         | rBV      | 225189         | 291534        | 46.99%          | 6.918%        |
| 17        | 9.945       | 1317          | 1318        | 1322         | rVB      | 12001          | 9090          | 1.46%           | 0.216%        |
| 18        | 10.122      | 1341          | 1348        | 1351         | rBV2     | 6028           | 9486          | 1.53%           | 0.225%        |
| 19        | 10.463      | 1401          | 1406        | 1411         | rBV2     | 11678          | 14869         | 2.40%           | 0.353%        |
| 20        | 10.622      | 1429          | 1433        | 1438         | rVB      | 9517           | 12382         | 2.00%           | 0.294%        |
| 21        | 10.704      | 1443          | 1447        | 1452         | rBV      | 38170          | 49907         | 8.04%           | 1.184%        |
| 22        | 11.210      | 1530          | 1533        | 1537         | rBV2     | 4599           | 6771          | 1.09%           | 0.161%        |
| 23        | 11.298      | 1545          | 1548        | 1552         | rVB      | 6438           | 8476          | 1.37%           | 0.201%        |
| 24        | 11.404      | 1561          | 1566        | 1568         | rBV      | 210924         | 283193        | 45.64%          | 6.720%        |
| 25        | 11.428      | 1568          | 1570        | 1574         | rVV      | 151851         | 160166        | 25.81%          | 3.800%        |
| 26        | 11.480      | 1574          | 1579        | 1583         | rVV      | 33310          | 43223         | 6.97%           | 1.026%        |
| 27        | 11.639      | 1602          | 1606        | 1609         | rBV2     | 10637          | 15996         | 2.58%           | 0.380%        |
| 28        | 11.910      | 1649          | 1652        | 1653         | rBV      | 11834          | 13413         | 2.16%           | 0.318%        |
| 29        | 11.933      | 1654          | 1656        | 1660         | rVB      | 19954          | 22792         | 3.67%           | 0.541%        |
| 30        | 12.022      | 1667          | 1671        | 1679         | rVB3     | 23085          | 43180         | 6.96%           | 1.025%        |
| 31        | 12.345      | 1722          | 1726        | 1731         | rVB      | 78067          | 97638         | 15.74%          | 2.317%        |
| 32        | 12.551      | 1758          | 1761        | 1768         | rVB3     | 10792          | 17175         | 2.77%           | 0.408%        |
| 33        | 12.622      | 1768          | 1773        | 1777         | rBV      | 217315         | 274315        | 44.21%          | 6.509%        |
| 34        | 12.657      | 1777          | 1779        | 1783         | rVB      | 36558          | 35908         | 5.79%           | 0.852%        |
| 35        | 12.769      | 1795          | 1798        | 1805         | rVB      | 7915           | 13288         | 2.14%           | 0.315%        |
| 36        | 12.851      | 1805          | 1812        | 1817         | rBV      | 185664         | 270866        | 43.65%          | 6.427%        |

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 BNA\_F  
 ClientSampleId :  
 G1(6-12)

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:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061925.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |         |         |
|----|--------|------|------|------|------|--------|--------|---------|---------|
| 37 | 12.898 | 1817 | 1820 | 1826 | rVB2 | 9306   | 14122  | 2.28%   | 0.335%  |
| 38 | 12.986 | 1827 | 1835 | 1844 | rVB  | 101734 | 152942 | 24.65%  | 3.629%  |
| 39 | 13.069 | 1844 | 1849 | 1853 | rBV3 | 12776  | 24575  | 3.96%   | 0.583%  |
| 40 | 13.174 | 1861 | 1867 | 1871 | rVB  | 18125  | 33599  | 5.42%   | 0.797%  |
| 41 | 13.245 | 1876 | 1879 | 1882 | rBV  | 10526  | 13082  | 2.11%   | 0.310%  |
| 42 | 13.280 | 1882 | 1885 | 1892 | rVB3 | 14841  | 21767  | 3.51%   | 0.516%  |
| 43 | 13.380 | 1898 | 1902 | 1904 | rBV2 | 7368   | 10116  | 1.63%   | 0.240%  |
| 44 | 13.410 | 1904 | 1907 | 1913 | rVB4 | 9107   | 13929  | 2.24%   | 0.331%  |
| 45 | 13.557 | 1928 | 1932 | 1935 | rBV5 | 6483   | 8837   | 1.42%   | 0.210%  |
| 46 | 13.692 | 1951 | 1955 | 1960 | rBV  | 14231  | 22476  | 3.62%   | 0.533%  |
| 47 | 13.798 | 1969 | 1973 | 1976 | rBV  | 18104  | 29829  | 4.81%   | 0.708%  |
| 48 | 14.051 | 2008 | 2016 | 2027 | rBV2 | 318006 | 620480 | 100.00% | 14.723% |
| 49 | 14.204 | 2039 | 2042 | 2046 | rBV4 | 10591  | 18557  | 2.99%   | 0.440%  |
| 50 | 14.439 | 2079 | 2082 | 2085 | rBV2 | 10976  | 12807  | 2.06%   | 0.304%  |
| 51 | 15.110 | 2191 | 2196 | 2203 | rBV  | 54871  | 124369 | 20.04%  | 2.951%  |
| 52 | 15.421 | 2245 | 2249 | 2254 | rVB  | 26006  | 40857  | 6.58%   | 0.969%  |
| 53 | 15.486 | 2255 | 2260 | 2265 | rVV  | 44649  | 73003  | 11.77%  | 1.732%  |
| 54 | 15.545 | 2265 | 2270 | 2283 | rVB  | 140067 | 240831 | 38.81%  | 5.714%  |
| 55 | 17.062 | 2524 | 2528 | 2536 | rVB3 | 18513  | 38632  | 6.23%   | 0.917%  |

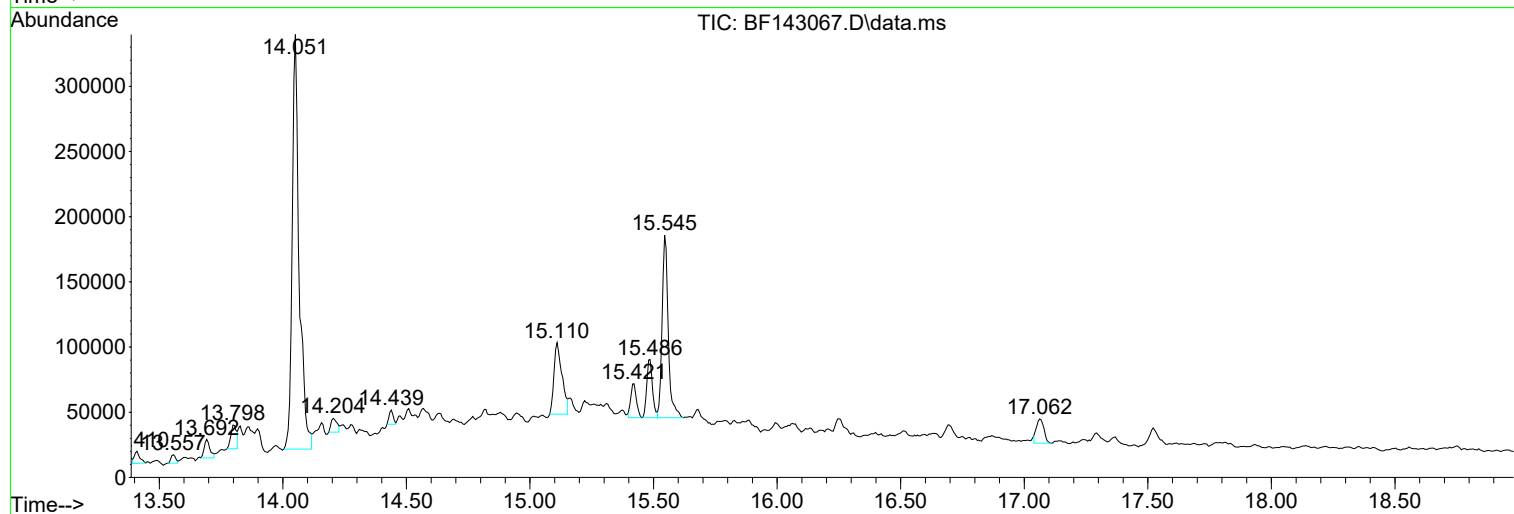
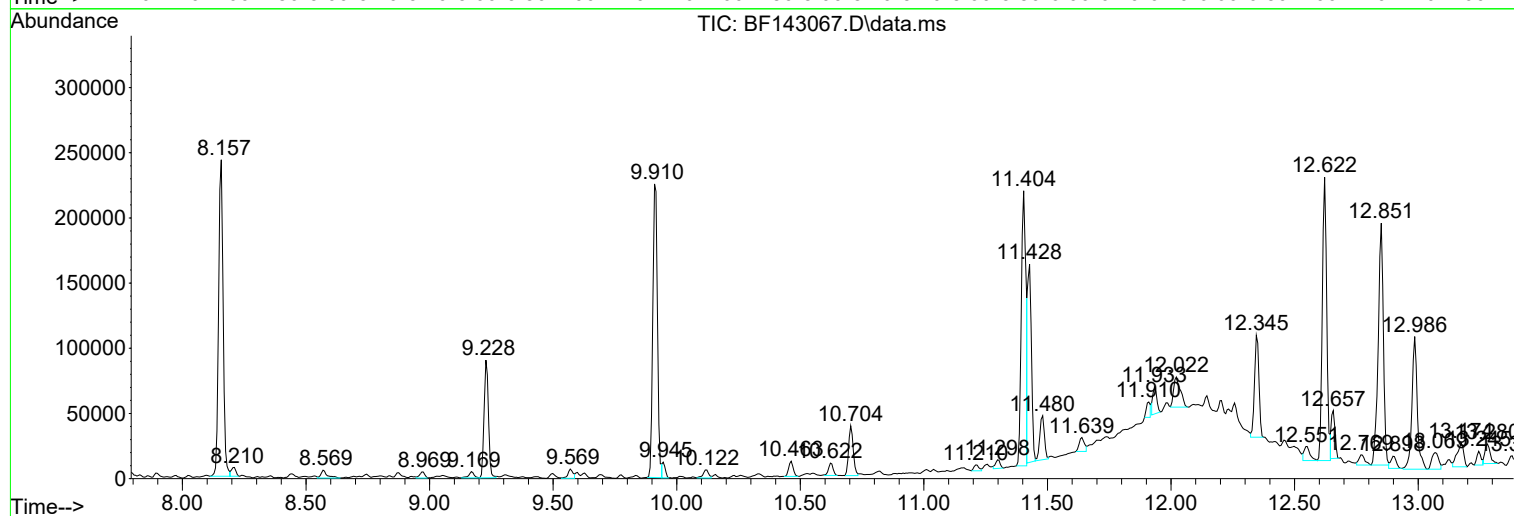
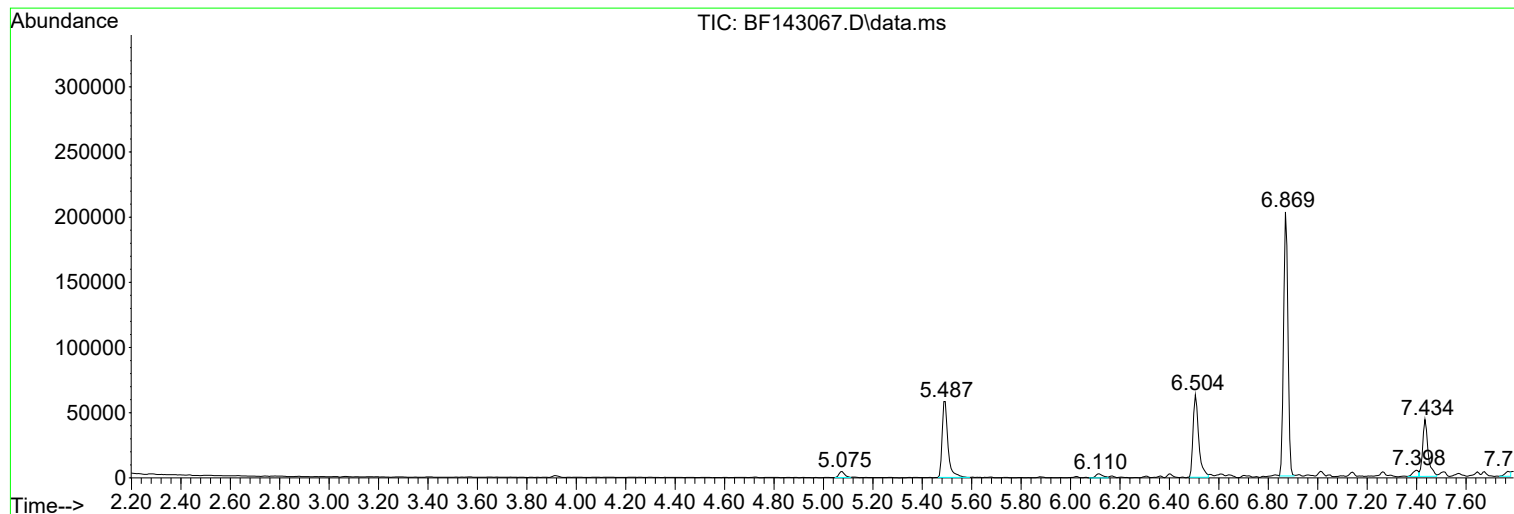
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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
G1(6-12)

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF070925\  
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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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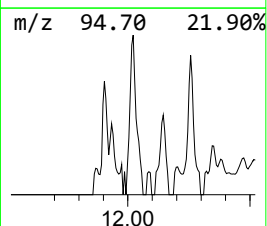
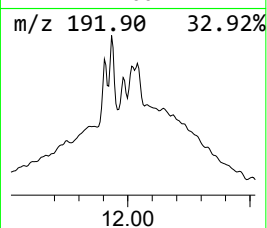
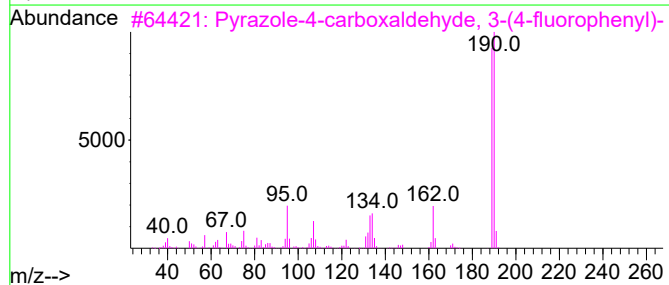
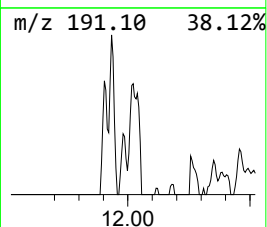
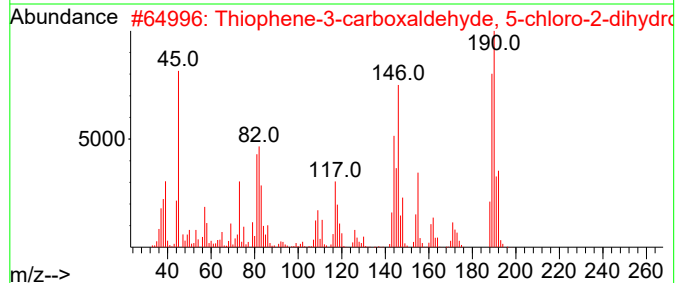
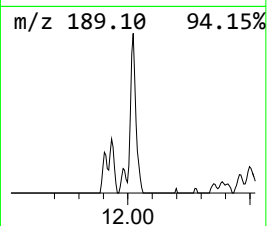
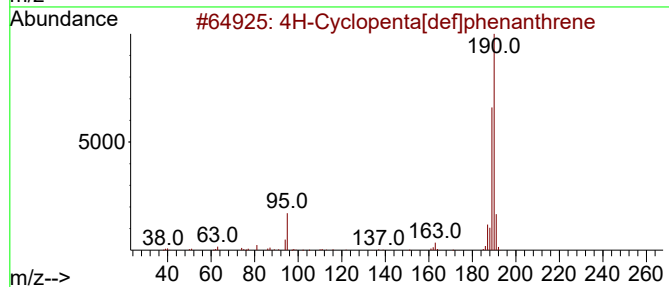
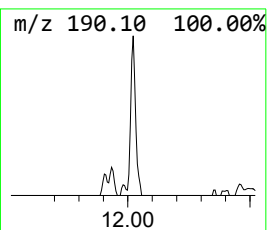
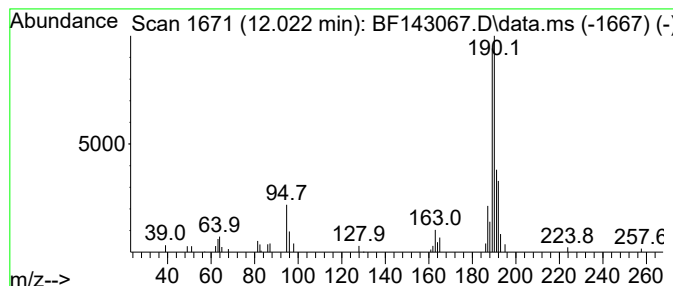
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 12.022 | 3.05 ng | 43180 | Phenanthrene-d10 | 11.404 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|------------|-------------|------|
| 1    |    |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5 | 64   |
| 2    |    |   | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 53   |
| 3    |    |   | Pyrazole-4-carboxaldehyde, 3-(4-... | 190 | C10H7FN2O  | 306936-57-2 | 38   |
| 4    |    |   | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4   | 069286-06-2 | 37   |
| 5    |    |   | 1,4-Naphthalenedione, 2,5-dihydr... | 190 | C10H6O4    | 004923-55-1 | 23   |



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Instrument :  
BNA\_F  
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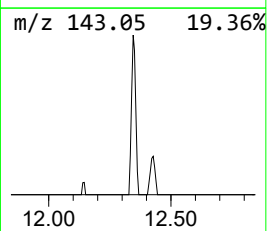
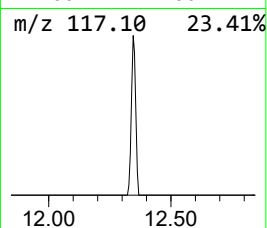
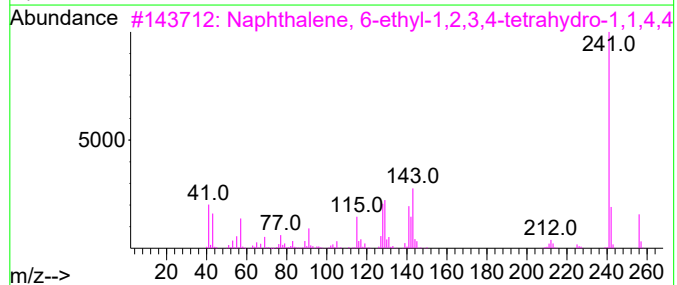
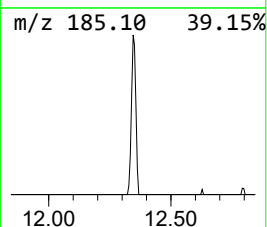
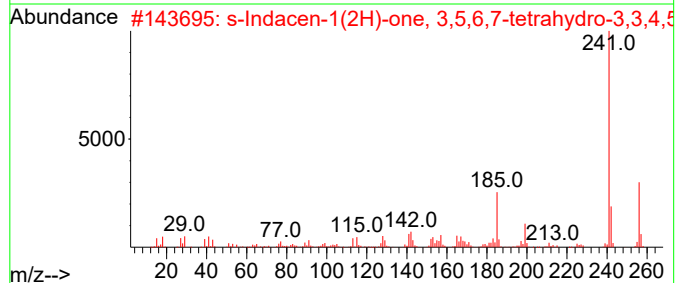
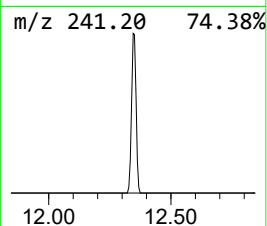
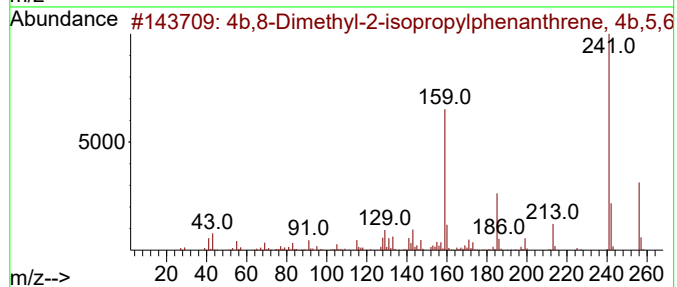
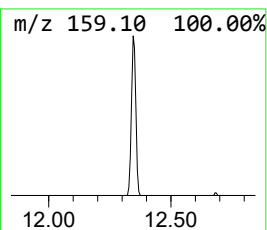
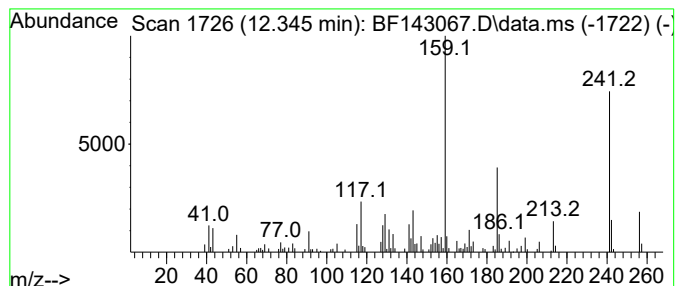
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 4b,8-Dimethyl-2-isopropylph... Concentration Rank 1

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 12.345 | 6.90 ng | 97638 | Phenanthrene-d10 | 11.404 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28     | 1000197-14-1 | 95   |
| 2    |    |   | s-Indacen-1(2H)-one, 3,5,6,7-tet... | 256 | C18H24O    | 038754-94-8  | 42   |
| 3    |    |   | Naphthalene, 6-ethyl-1,2,3,4-tet... | 256 | C19H28     | 301643-35-6  | 35   |
| 4    |    |   | Uracil, 5-(p-cyanophenyl)-1,3-di... | 241 | C13H11N3O2 | 1000164-78-4 | 30   |
| 5    |    |   | As-Indacene, 1,2,3,6,7,8-hexahyd... | 256 | C19H28     | 017465-47-3  | 30   |



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G1(6-12)

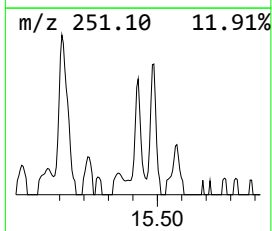
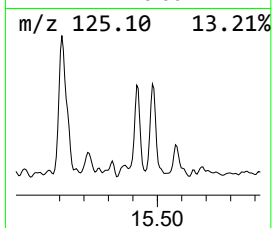
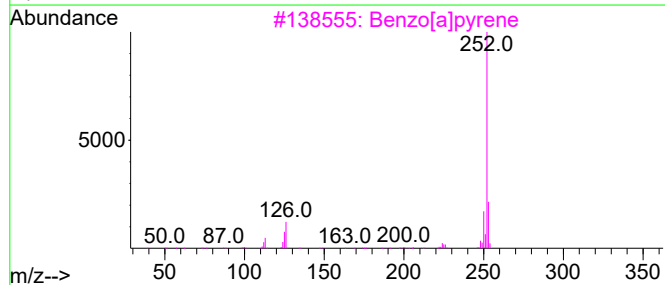
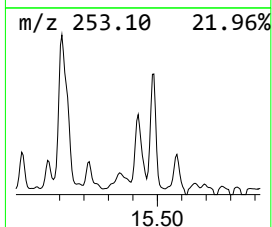
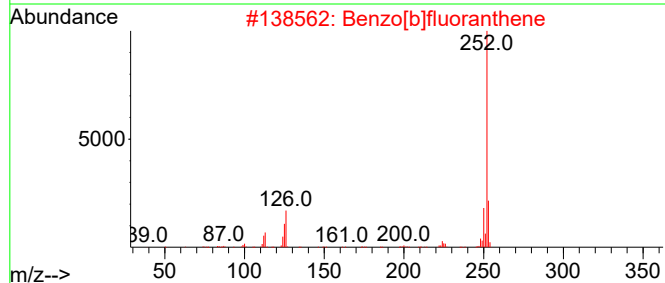
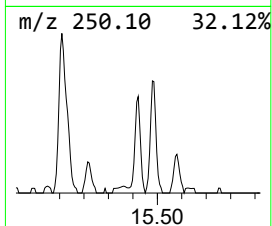
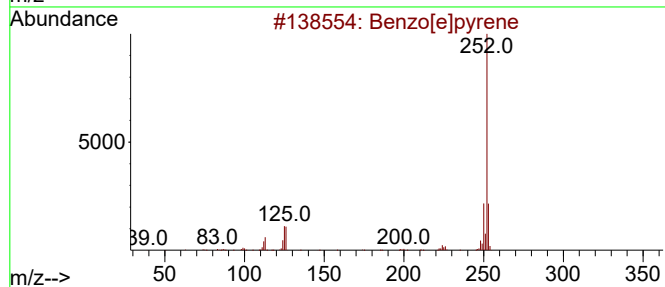
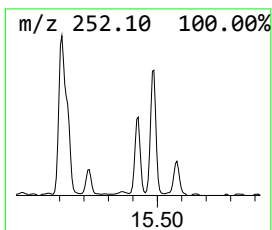
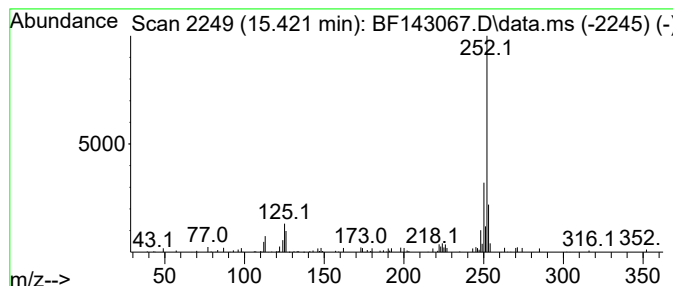
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF061925.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzo[e]pyrene Concentration Rank 2

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 15.421 | 3.39 ng | 40857 | Perylene-d12     | 15.545 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 94   |
| 2    |    |   | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 89   |
| 3    |    |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 89   |
| 4    |    |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 81   |
| 5    |    |   | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 76   |



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TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name          | RT  | EstConc | Units | Response | --Internal Standard-- |        |      |      |
|---------------------------|-----|---------|-------|----------|-----------------------|--------|------|------|
|                           |     |         |       |          | #                     | RT     | Resp | Conc |
| 4H-Cyclopenta[d... 12.022 | 3.0 | ng      | 43180 | 4        | 11.404                | 283193 | 20.0 |      |
| 4b,8-Dimethyl-2... 12.345 | 6.9 | ng      | 97638 | 4        | 11.404                | 283193 | 20.0 |      |
| Benzo[e]pyrene 15.421     | 3.4 | ng      | 40857 | 6        | 15.545                | 240831 | 20.0 |      |