

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
 Data File : BF135760.D  
 Acq On : 13 Oct 2023 19:10  
 Operator : CG\JU  
 Sample : 04830-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RT-2327

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-BF101323.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF135760.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         | 4.969       | 487           | 490         | 501          | rBV      | 99254          | 147300        | 5.63%           | 0.570%        |
| 2         | 5.375       | 555           | 559         | 586          | rBV      | 2273673        | 2616749       | 100.00%         | 10.126%       |
| 3         | 6.387       | 728           | 731         | 758          | rBV      | 2292905        | 2538159       | 97.00%          | 9.822%        |
| 4         | 6.593       | 764           | 766         | 777          | rBV      | 19246          | 51466         | 1.97%           | 0.199%        |
| 5         | 6.734       | 787           | 790         | 798          | rBV      | 744537         | 655490        | 25.05%          | 2.536%        |
| 6         | 7.304       | 883           | 887         | 901          | rBV      | 1773875        | 1549576       | 59.22%          | 5.996%        |
| 7         | 8.016       | 1005          | 1008        | 1011         | rBV      | 972544         | 818528        | 31.28%          | 3.167%        |
| 8         | 8.040       | 1011          | 1012        | 1025         | rVB      | 102010         | 86567         | 3.31%           | 0.335%        |
| 9         | 8.734       | 1127          | 1130        | 1137         | rBV      | 38801          | 45029         | 1.72%           | 0.174%        |
| 10        | 8.834       | 1144          | 1147        | 1152         | rVB      | 33454          | 31651         | 1.21%           | 0.122%        |
| 11        | 9.092       | 1188          | 1191        | 1195         | rBV      | 2725443        | 2399654       | 91.70%          | 9.286%        |
| 12        | 9.216       | 1207          | 1212        | 1221         | rVB      | 716121         | 741431        | 28.33%          | 2.869%        |
| 13        | 9.369       | 1234          | 1238        | 1242         | rBV3     | 24849          | 32154         | 1.23%           | 0.124%        |
| 14        | 9.434       | 1246          | 1249        | 1252         | rBV      | 28704          | 34849         | 1.33%           | 0.135%        |
| 15        | 9.557       | 1267          | 1270        | 1275         | rVB5     | 17858          | 26506         | 1.01%           | 0.103%        |
| 16        | 9.639       | 1280          | 1284        | 1287         | rBV2     | 31515          | 38511         | 1.47%           | 0.149%        |
| 17        | 9.775       | 1303          | 1307        | 1310         | rBV      | 967646         | 847718        | 32.40%          | 3.280%        |
| 18        | 9.804       | 1310          | 1312        | 1317         | rVB      | 116406         | 103381        | 3.95%           | 0.400%        |
| 19        | 9.987       | 1340          | 1343        | 1347         | rBV      | 79128          | 81475         | 3.11%           | 0.315%        |
| 20        | 10.328      | 1395          | 1401        | 1407         | rBV      | 132923         | 143473        | 5.48%           | 0.555%        |
| 21        | 10.486      | 1426          | 1428        | 1435         | rVB3     | 32951          | 36252         | 1.39%           | 0.140%        |
| 22        | 10.569      | 1439          | 1442        | 1448         | rBV      | 1632457        | 1447932       | 55.33%          | 5.603%        |
| 23        | 10.686      | 1459          | 1462        | 1470         | rVB5     | 34045          | 60597         | 2.32%           | 0.234%        |
| 24        | 10.881      | 1490          | 1495        | 1498         | rBV5     | 37450          | 61176         | 2.34%           | 0.237%        |
| 25        | 11.086      | 1527          | 1530        | 1533         | rBV      | 66655          | 75155         | 2.87%           | 0.291%        |
| 26        | 11.163      | 1540          | 1543        | 1549         | rVB2     | 77492          | 92830         | 3.55%           | 0.359%        |
| 27        | 11.269      | 1558          | 1561        | 1563         | rBV      | 947937         | 791247        | 30.24%          | 3.062%        |
| 28        | 11.292      | 1563          | 1565        | 1570         | rVB      | 1098257        | 895415        | 34.22%          | 3.465%        |
| 29        | 11.345      | 1571          | 1574        | 1578         | rVV      | 186781         | 166193        | 6.35%           | 0.643%        |
| 30        | 11.516      | 1600          | 1603        | 1609         | rVB      | 75430          | 74168         | 2.83%           | 0.287%        |
| 31        | 11.604      | 1616          | 1618        | 1624         | rVB4     | 35111          | 41772         | 1.60%           | 0.162%        |
| 32        | 11.775      | 1644          | 1647        | 1649         | rBV      | 134812         | 107847        | 4.12%           | 0.417%        |
| 33        | 11.804      | 1649          | 1652        | 1659         | rVV      | 480606         | 504041        | 19.26%          | 1.950%        |
| 34        | 11.857      | 1659          | 1661        | 1663         | rVV      | 65813          | 63312         | 2.42%           | 0.245%        |
| 35        | 11.886      | 1663          | 1666        | 1669         | rVV      | 181145         | 200811        | 7.67%           | 0.777%        |
| 36        | 11.910      | 1669          | 1670        | 1674         | rVB      | 93016          | 65906         | 2.52%           | 0.255%        |

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 Sample : 04830-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RT-2327

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-BF101323.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |       |        |       |        |
|----|--------|------|------|------|------|-------|--------|-------|--------|
| 37 | 12.075 | 1695 | 1698 | 1701 | rVB  | 73057 | 67175  | 2.57% | 0.260% |
| 38 | 12.122 | 1703 | 1706 | 1708 | rBV  | 34718 | 30601  | 1.17% | 0.118% |
| 39 | 12.328 | 1738 | 1741 | 1744 | rBV  | 78359 | 80025  | 3.06% | 0.310% |
| 40 | 12.375 | 1744 | 1749 | 1753 | rVV4 | 81373 | 130810 | 5.00% | 0.506% |

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 41 | 12.428 | 1753 | 1758 | 1762 | rVV2 | 48648  | 69788  | 2.67%  | 0.270% |
| 42 | 12.492 | 1766 | 1769 | 1772 | rBV  | 849405 | 707792 | 27.05% | 2.739% |
| 43 | 12.522 | 1772 | 1774 | 1779 | rVB2 | 61779  | 56402  | 2.16%  | 0.218% |
| 44 | 12.592 | 1784 | 1786 | 1792 | rVV3 | 64339  | 93149  | 3.56%  | 0.360% |
| 45 | 12.645 | 1792 | 1795 | 1798 | rVV  | 56336  | 60009  | 2.29%  | 0.232% |

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 46 | 12.722 | 1802 | 1808 | 1813 | rVV  | 695763  | 729645  | 27.88% | 2.823% |
| 47 | 12.780 | 1816 | 1818 | 1822 | rVB2 | 35167   | 33428   | 1.28%  | 0.129% |
| 48 | 12.863 | 1828 | 1832 | 1836 | rBV  | 1909081 | 1824743 | 69.73% | 7.061% |
| 49 | 12.898 | 1836 | 1838 | 1842 | rVB  | 33528   | 38666   | 1.48%  | 0.150% |
| 50 | 12.945 | 1842 | 1846 | 1852 | rBV2 | 43487   | 77010   | 2.94%  | 0.298% |

|    |        |      |      |      |      |       |       |       |        |
|----|--------|------|------|------|------|-------|-------|-------|--------|
| 51 | 13.033 | 1857 | 1861 | 1863 | rBV3 | 41115 | 56888 | 2.17% | 0.220% |
| 52 | 13.057 | 1863 | 1865 | 1868 | rVB2 | 58013 | 56958 | 2.18% | 0.220% |
| 53 | 13.163 | 1879 | 1883 | 1890 | rVB2 | 66142 | 81772 | 3.12% | 0.316% |
| 54 | 13.257 | 1896 | 1899 | 1902 | rBV  | 44784 | 42791 | 1.64% | 0.166% |
| 55 | 13.286 | 1902 | 1904 | 1907 | rBV  | 43189 | 43675 | 1.67% | 0.169% |

|    |        |      |      |      |      |       |       |       |        |
|----|--------|------|------|------|------|-------|-------|-------|--------|
| 56 | 13.439 | 1927 | 1930 | 1933 | rBV2 | 44512 | 43994 | 1.68% | 0.170% |
| 57 | 13.586 | 1952 | 1955 | 1961 | rVB  | 43743 | 46906 | 1.79% | 0.182% |
| 58 | 13.686 | 1969 | 1972 | 1974 | rBV2 | 44082 | 53177 | 2.03% | 0.206% |
| 59 | 13.739 | 1978 | 1981 | 1983 | rVV  | 37591 | 39823 | 1.52% | 0.154% |
| 60 | 13.769 | 1983 | 1986 | 1988 | rVV3 | 45561 | 51485 | 1.97% | 0.199% |

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 61 | 13.798 | 1988 | 1991 | 1994 | rVV2 | 59141  | 68614  | 2.62%  | 0.266% |
| 62 | 13.857 | 1995 | 2001 | 2007 | rVV5 | 46562  | 128011 | 4.89%  | 0.495% |
| 63 | 13.933 | 2007 | 2014 | 2017 | rVV2 | 653704 | 848052 | 32.41% | 3.282% |
| 64 | 13.963 | 2017 | 2019 | 2024 | rVB  | 255820 | 228542 | 8.73%  | 0.884% |
| 65 | 14.039 | 2030 | 2032 | 2036 | rVB2 | 42888  | 45186  | 1.73%  | 0.175% |

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 66 | 14.092 | 2037 | 2041 | 2043 | rBV  | 39324  | 45766  | 1.75% | 0.177% |
| 67 | 14.327 | 2077 | 2081 | 2085 | rBV  | 54784  | 68670  | 2.62% | 0.266% |
| 68 | 14.398 | 2090 | 2093 | 2097 | rBV2 | 56387  | 61273  | 2.34% | 0.237% |
| 69 | 14.704 | 2142 | 2145 | 2149 | rVB  | 54456  | 55825  | 2.13% | 0.216% |
| 70 | 14.774 | 2154 | 2157 | 2162 | rVB  | 127846 | 128949 | 4.93% | 0.499% |

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 71 | 14.833 | 2164 | 2167 | 2171 | rBV2 | 28856  | 33715  | 1.29%  | 0.130% |
| 72 | 14.980 | 2189 | 2192 | 2196 | rBV  | 220175 | 317191 | 12.12% | 1.227% |
| 73 | 15.010 | 2196 | 2197 | 2200 | rVV  | 112876 | 104867 | 4.01%  | 0.406% |
| 74 | 15.033 | 2200 | 2201 | 2209 | rVB2 | 69428  | 64686  | 2.47%  | 0.250% |
| 75 | 15.098 | 2209 | 2212 | 2219 | rBV  | 32265  | 45286  | 1.73%  | 0.175% |

|    |        |      |      |      |     |        |        |       |        |
|----|--------|------|------|------|-----|--------|--------|-------|--------|
| 76 | 15.286 | 2240 | 2244 | 2250 | rVB | 132880 | 151204 | 5.78% | 0.585% |
|----|--------|------|------|------|-----|--------|--------|-------|--------|

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Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

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-BF101323.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 77 | 15.351 | 2252 | 2255 | 2261 | rBV  | 176724 | 212005 | 8.10%  | 0.820% |
| 78 | 15.410 | 2261 | 2265 | 2270 | rBV  | 547743 | 683000 | 26.10% | 2.643% |
| 79 | 15.845 | 2335 | 2339 | 2347 | rBV2 | 45485  | 70992  | 2.71%  | 0.275% |
| 80 | 16.351 | 2421 | 2425 | 2431 | rVB3 | 28156  | 45768  | 1.75%  | 0.177% |
| 81 | 16.921 | 2516 | 2522 | 2532 | rVB2 | 62104  | 171834 | 6.57%  | 0.665% |
| 82 | 17.380 | 2595 | 2600 | 2608 | rVB  | 35111  | 71905  | 2.75%  | 0.278% |

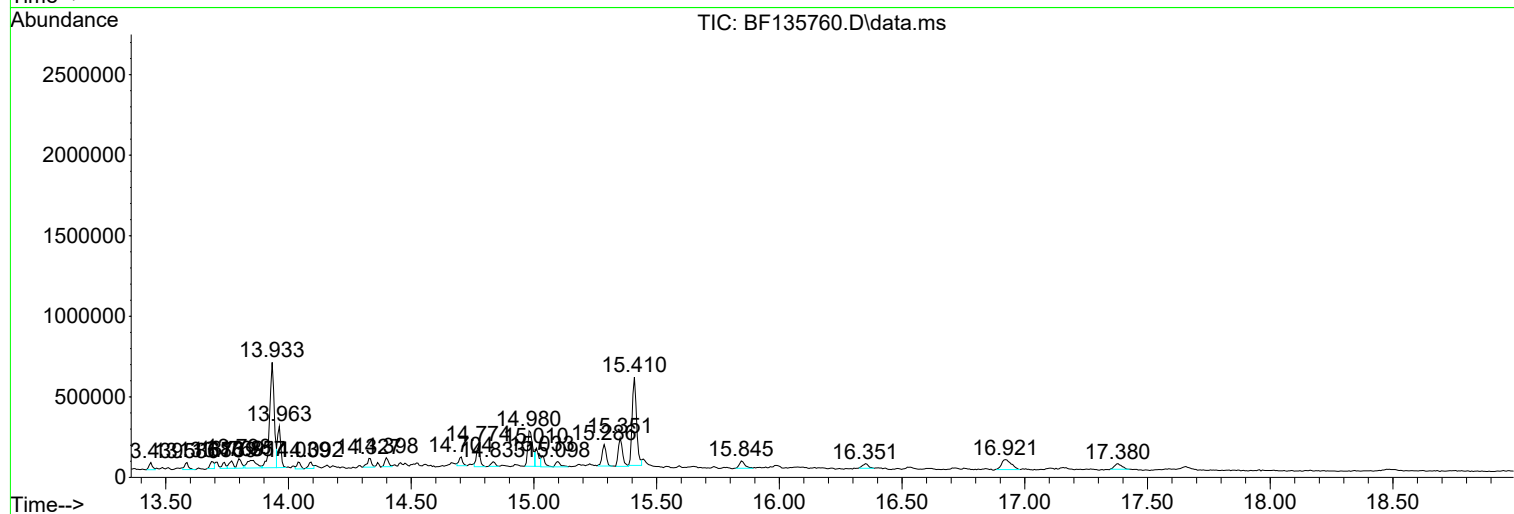
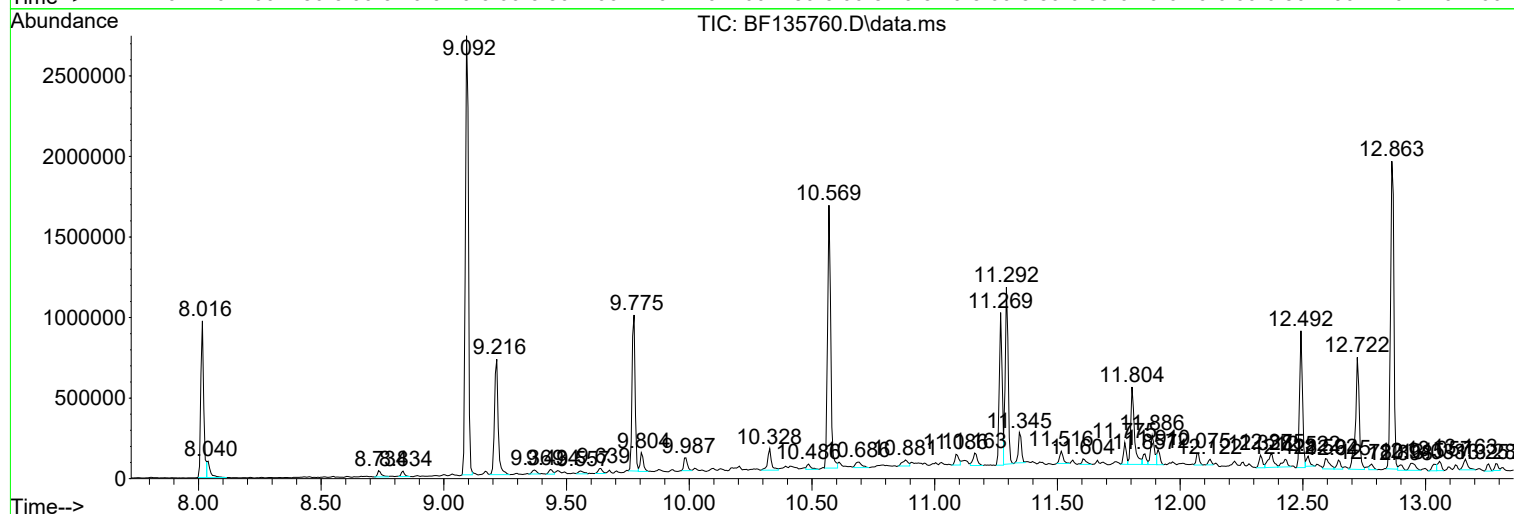
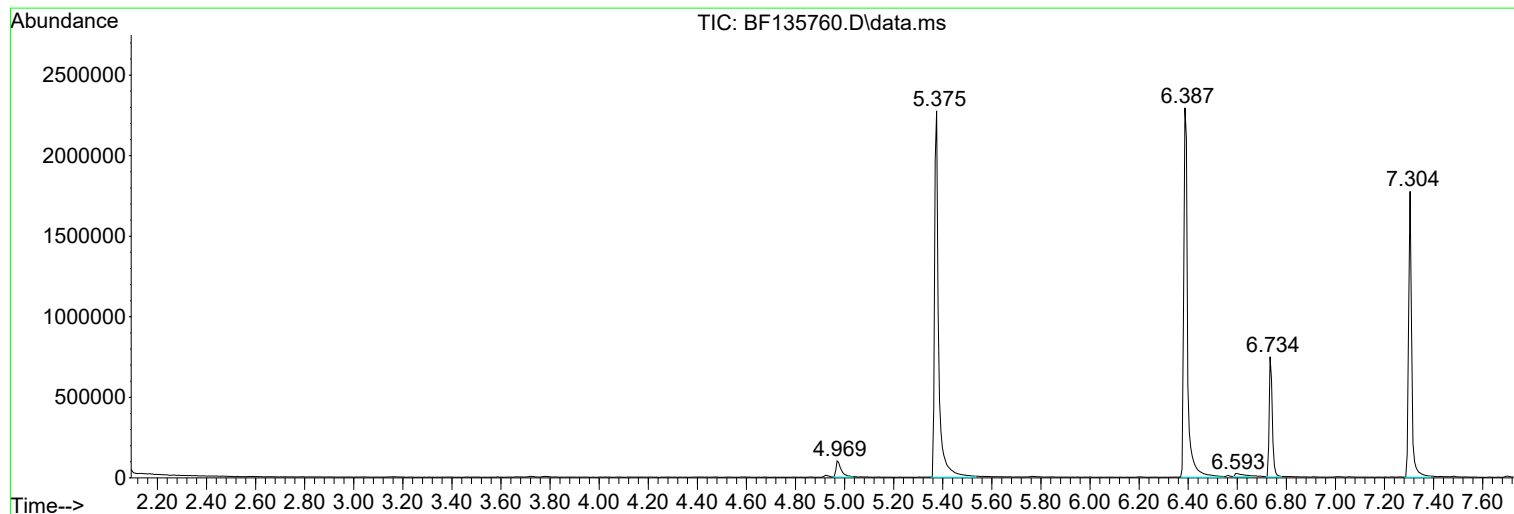
Sum of corrected areas: 25842374

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.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\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

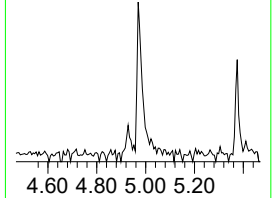
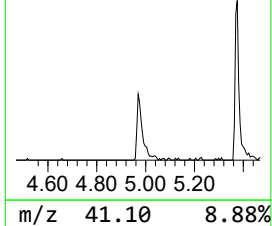
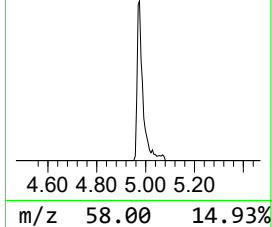
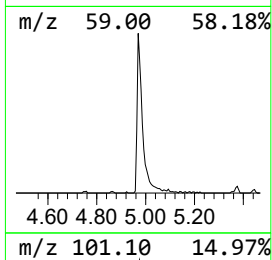
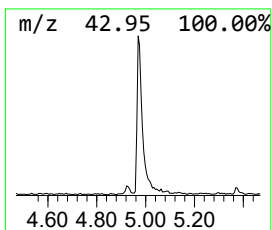
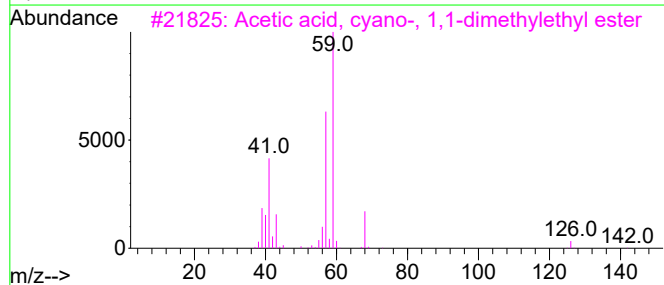
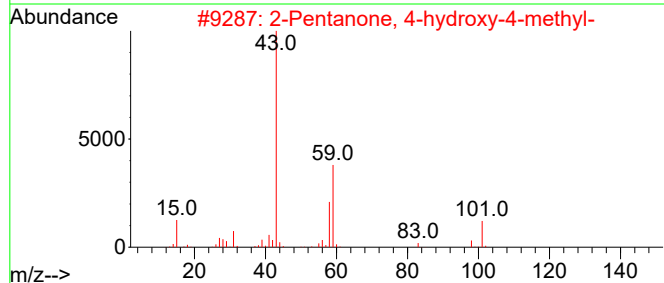
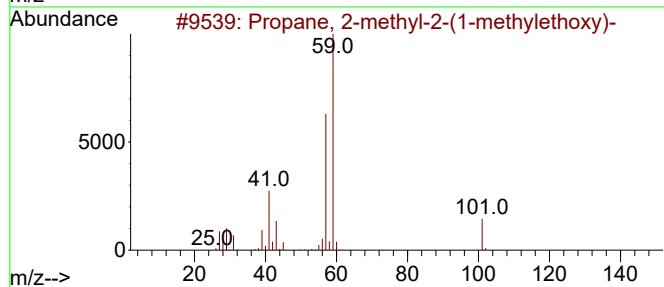
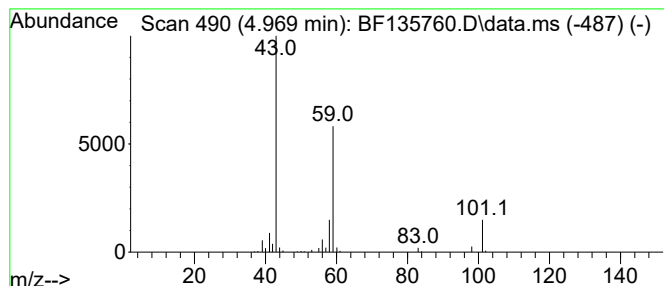
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Propane, 2-methyl-2-(1-meth... Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD       | R.T.  |
|-------|---------|--------|------------------------|-------|
| 4.969 | 4.49 ng | 147300 | 1,4-Dichlorobenzene-d4 | 6.734 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O   | 017348-59-3 | 53   |
| 2    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 50   |
| 3    |    |   | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 37   |
| 4    |    |   | 3-Hexanol, 4-methyl-                | 116 | C7H16O   | 000615-29-2 | 33   |
| 5    |    |   | 2-Hexanol, 2-methyl-                | 116 | C7H16O   | 000625-23-0 | 28   |



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Instrument :  
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ClientSampleId :  
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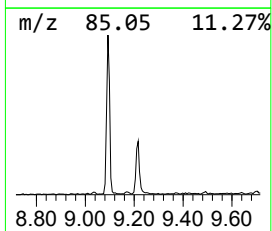
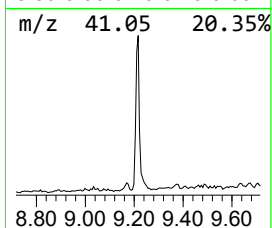
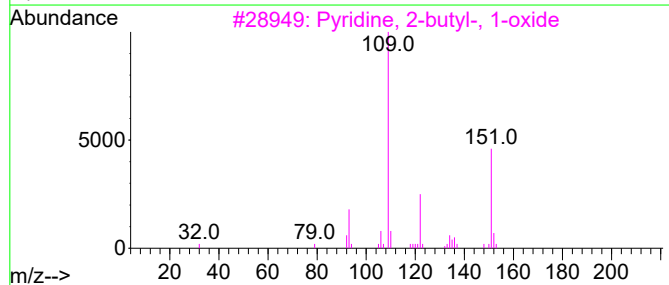
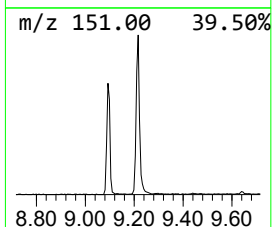
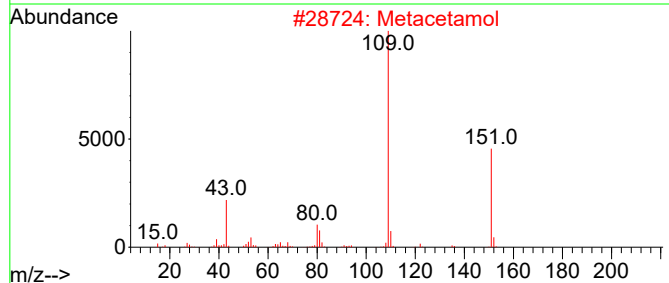
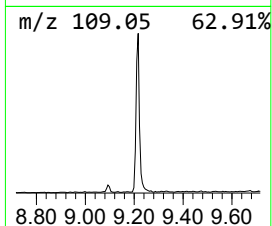
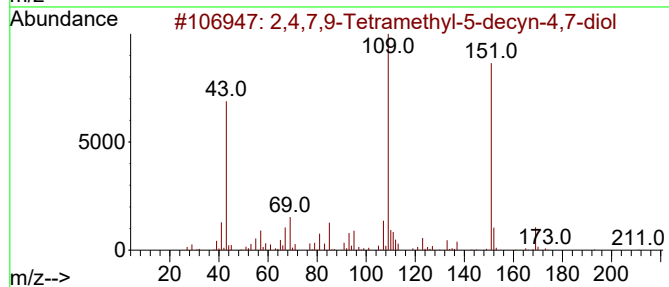
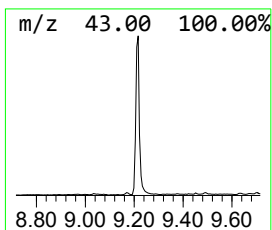
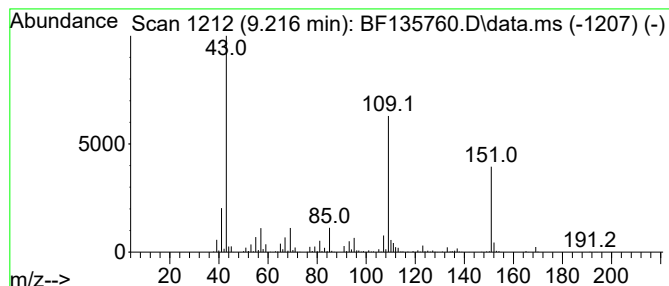
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 2,4,7,9-Tetramethyl-5-decyn... Concentration Rank 1

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 9.216 | 17.49 ng | 741431 | Acenaphthene-d10 | 9.775 |

| Hit# | of 5                                | Tentative ID | MW        | MolForm | CAS#         | Qual |
|------|-------------------------------------|--------------|-----------|---------|--------------|------|
| 1    | 2,4,7,9-Tetramethyl-5-decyn-4,7-... | 226          | C14H26O2  |         | 000126-86-3  | 90   |
| 2    | Metacetamol                         | 151          | C8H9NO2   |         | 000621-42-1  | 58   |
| 3    | Pyridine, 2-butyl-, 1-oxide         | 151          | C9H13NO   |         | 031396-32-4  | 45   |
| 4    | Butanamide, N-acetyl-N-(4-hydrox... | 221          | C12H15NO3 |         | 1000107-08-7 | 42   |
| 5    | Cyclohexanol, 3,3,5-trimethyl-      | 142          | C9H18O    |         | 000116-02-9  | 38   |



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Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

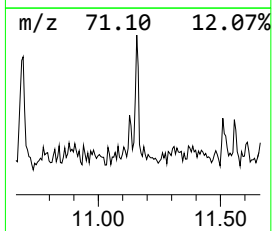
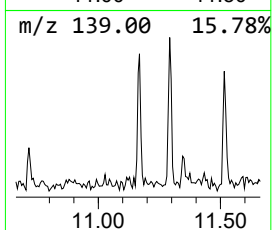
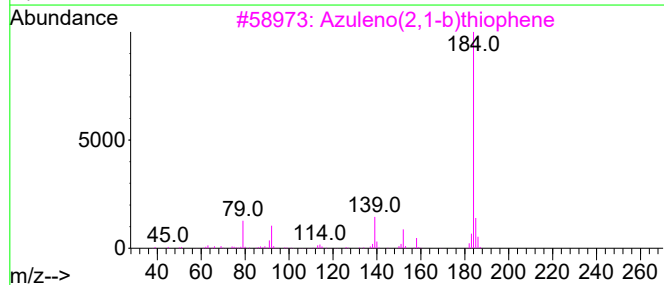
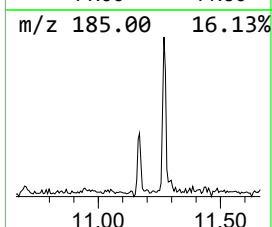
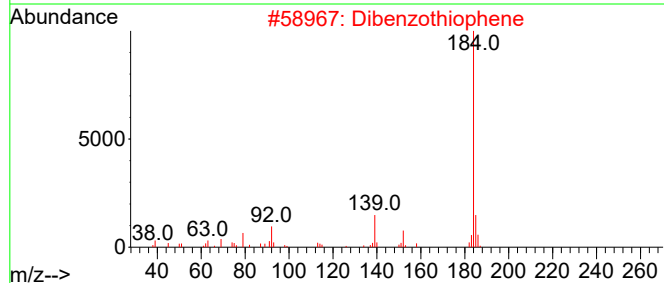
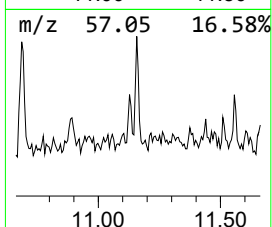
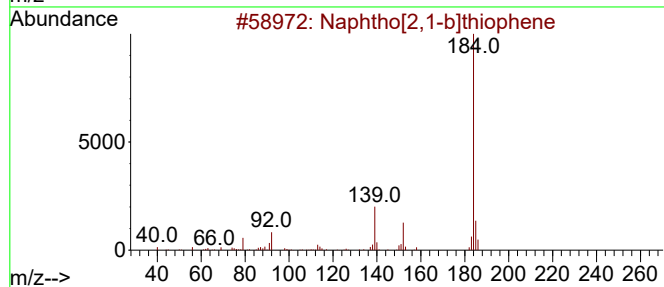
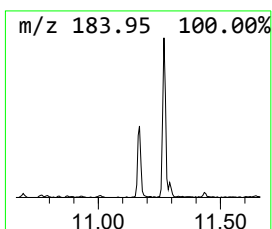
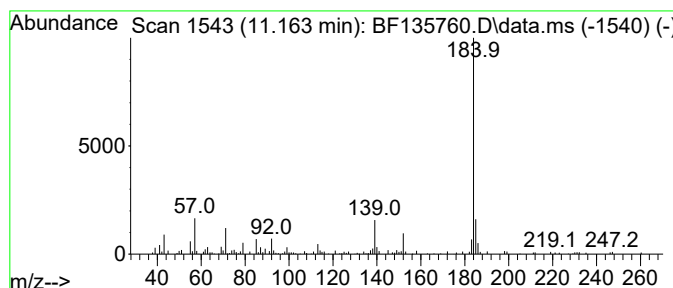
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 Naphtho[2,1-b]thiophene Concentration Rank 11

| R.T.      | EstConc                 | Area  | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|-------|------------------|-------------|------|
| 11.163    | 2.35 ng                 | 92830 | Phenanthrene-d10 | 11.269      |      |
| Hit# of 5 | Tentative ID            | MW    | MolForm          | CAS#        | Qual |
| 1         | Naphtho[2,1-b]thiophene | 184   | C12H8S           | 000233-02-3 | 94   |
| 2         | Dibenzothiophene        | 184   | C12H8S           | 000132-65-0 | 94   |
| 3         | Azuleno(2,1-b)thiophene | 184   | C12H8S           | 000248-13-5 | 91   |
| 4         | Naphtho[1,2-b]thiophene | 184   | C12H8S           | 000234-41-3 | 90   |
| 5         | Naphtho[2,3-b]thiophene | 184   | C12H8S           | 000268-77-9 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

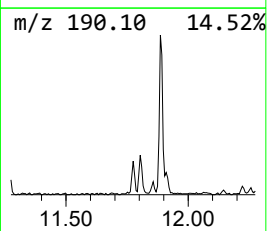
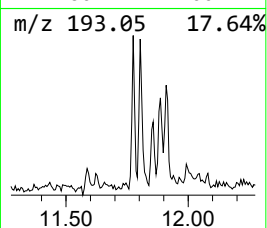
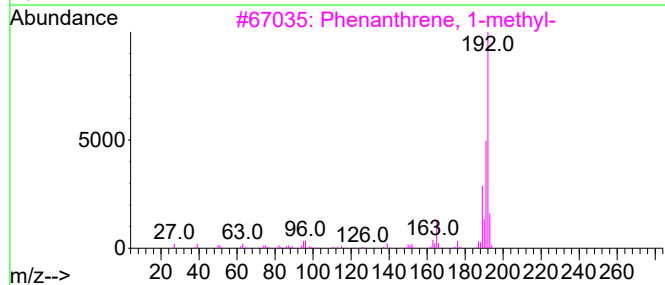
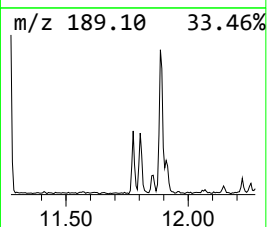
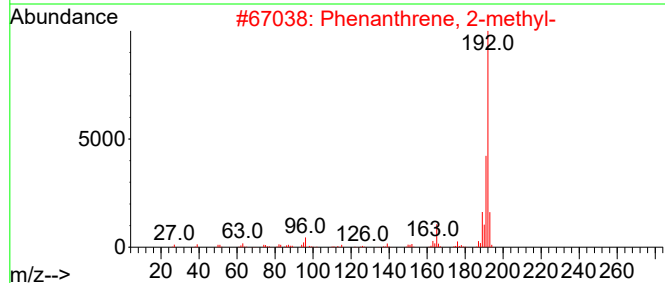
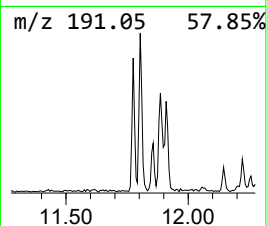
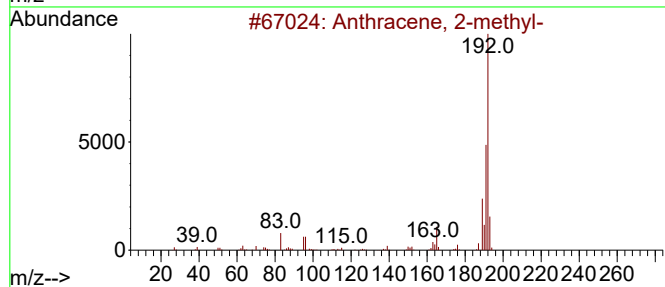
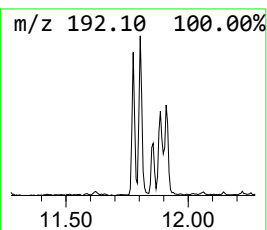
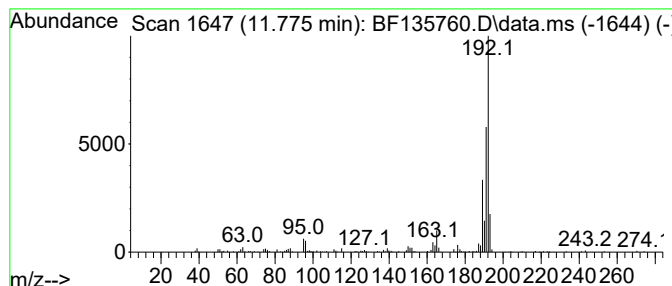
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Anthracene, 2-methyl- Concentration Rank 9

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.775 | 2.73 ng | 107847 | Phenanthrene-d10 | 11.269 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 97   |
| 2    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 96   |
| 3    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 96   |
| 4    |    |   | Anthracene, 9-methyl-               | 192 | C15H12  | 000779-02-2 | 93   |
| 5    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 93   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

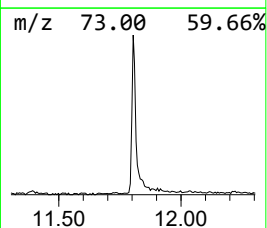
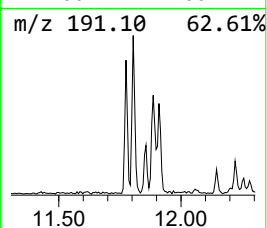
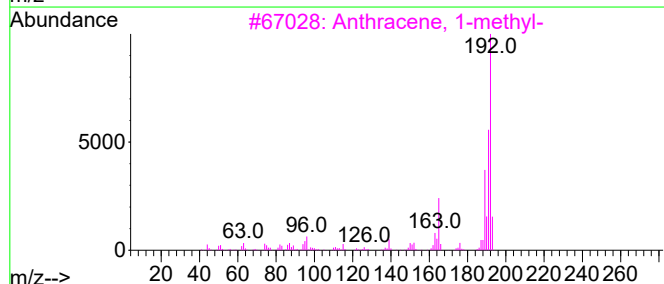
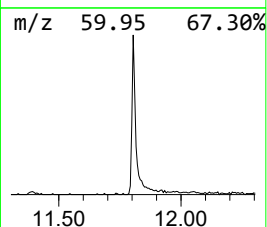
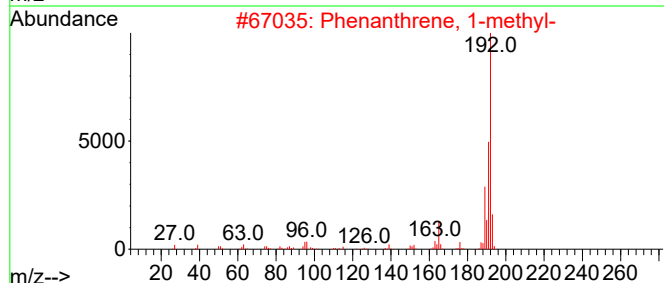
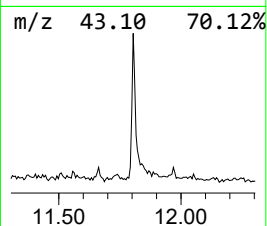
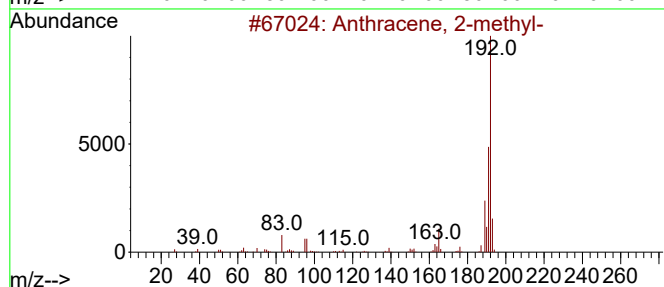
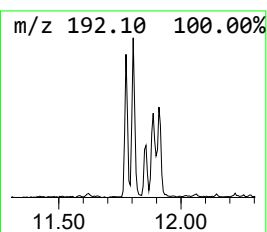
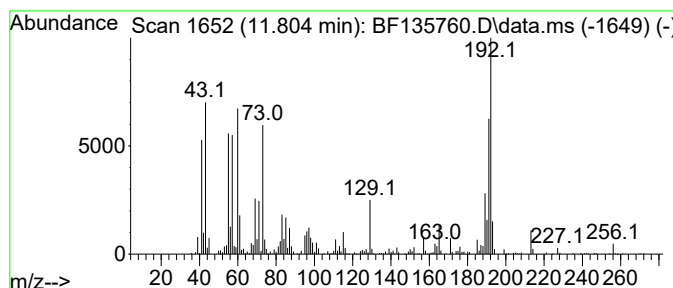
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 2

| R.T.      | EstConc                     | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------------|--------|------------------|-------------|------|
| 11.804    | 12.74 ng                    | 504041 | Phenanthrene-d10 | 11.269      |      |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual |
| 1         | Anthracene, 2-methyl-       | 192    | C15H12           | 000613-12-7 | 95   |
| 2         | Phenanthrene, 1-methyl-     | 192    | C15H12           | 000832-69-9 | 95   |
| 3         | Anthracene, 1-methyl-       | 192    | C15H12           | 000610-48-0 | 92   |
| 4         | 5H-Dibenzo[a,d]cycloheptene | 192    | C15H12           | 000256-81-5 | 92   |
| 5         | n-Hexadecanoic acid         | 256    | C16H32O2         | 000057-10-3 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

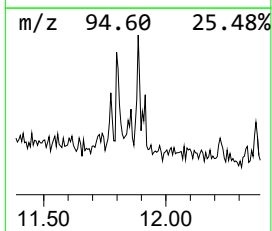
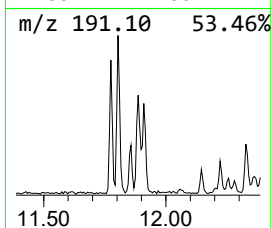
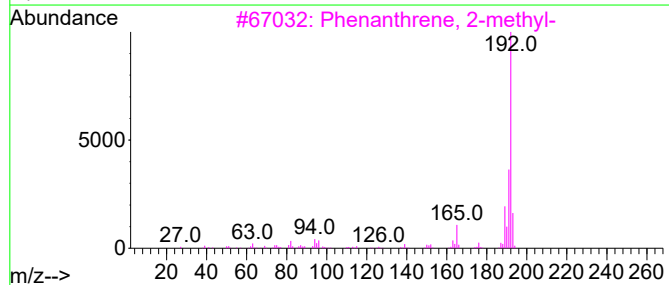
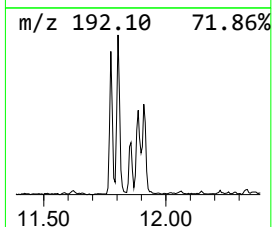
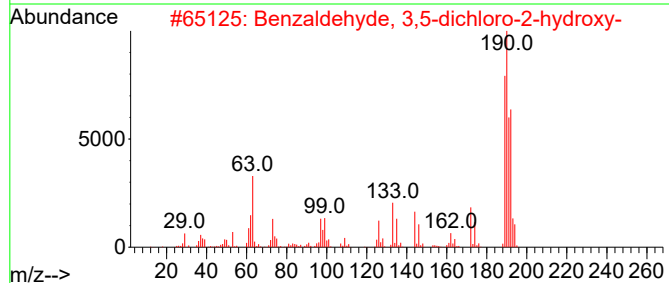
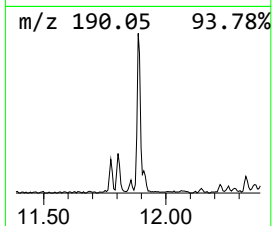
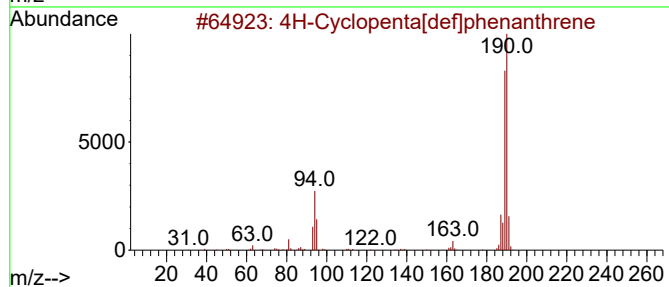
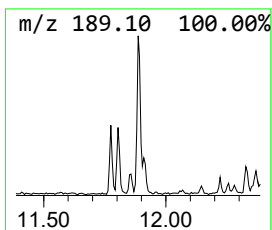
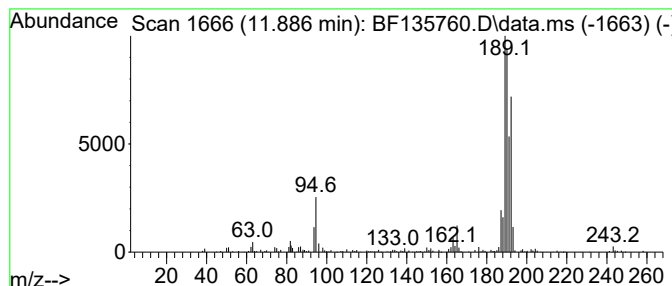
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 11.886    | 5.08 ng                             | 200811 | Phenanthrene-d10 | 11.269      |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5 | 93   |
| 2         | Benzaldehyde, 3,5-dichloro-2-hyd... | 190    | C7H4Cl2O2        | 000090-60-8 | 72   |
| 3         | Phenanthrene, 2-methyl-             | 192    | C15H12           | 002531-84-2 | 35   |
| 4         | Phenanthrene, 4-methyl-             | 192    | C15H12           | 000832-64-4 | 30   |
| 5         | Propyne, 1,3-diphenyl-              | 192    | C15H12           | 004980-70-5 | 25   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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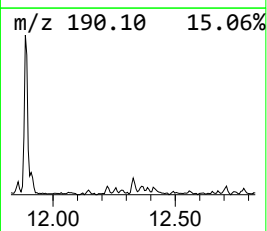
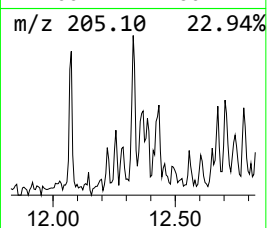
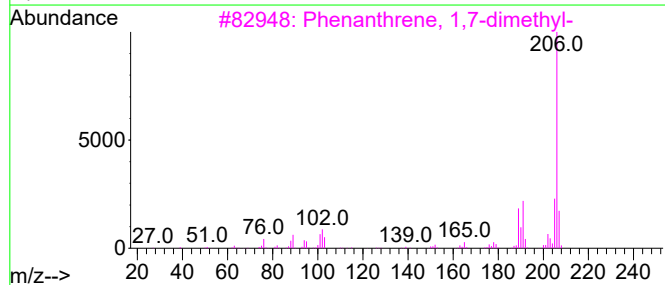
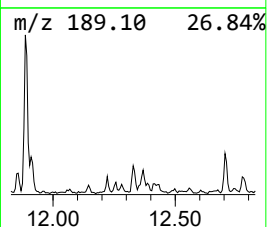
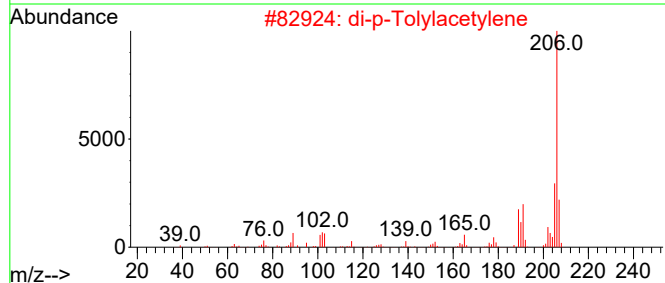
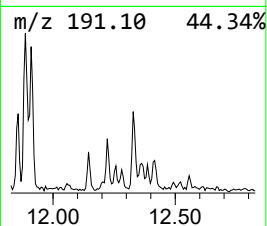
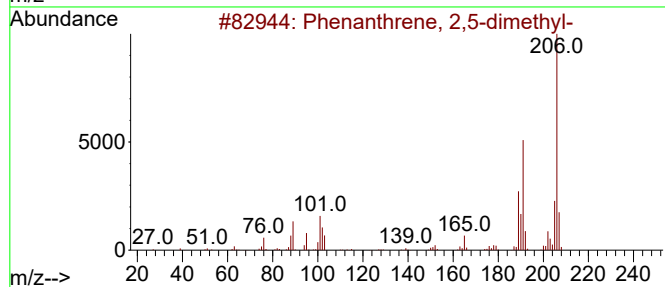
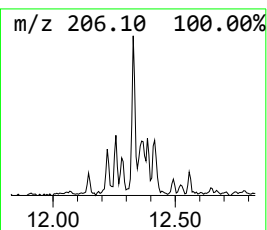
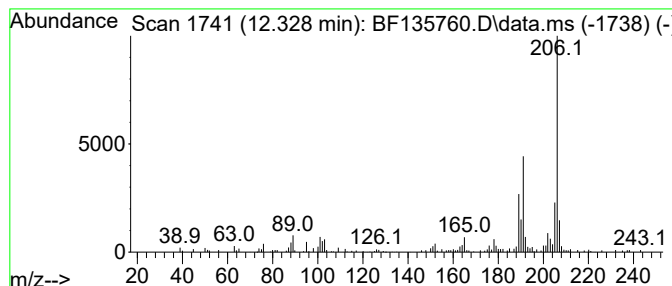
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Phenanthrene, 2,5-dimethyl- Concentration Rank 13

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 12.328 | 2.02 ng | 80025 | Phenanthrene-d10 | 11.269 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 97   |
| 2    |    |   | di-p-Tolylacetylene         | 206 | C16H14  | 002789-88-0 | 96   |
| 3    |    |   | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 94   |
| 4    |    |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 94   |
| 5    |    |   | 9,10-Dimethylanthracene     | 206 | C16H14  | 000781-43-1 | 93   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
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Misc :  
ALS Vial : 15 Sample Multiplier: 1

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ClientSampleId :  
RT-2327

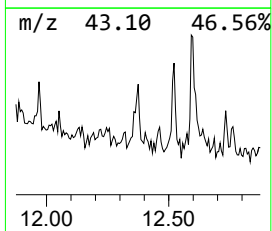
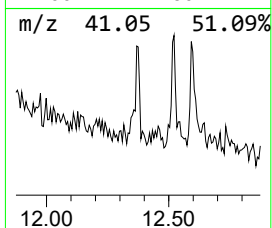
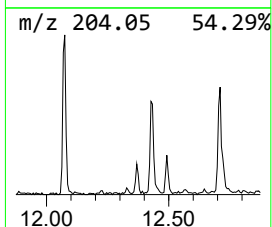
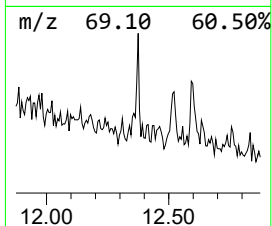
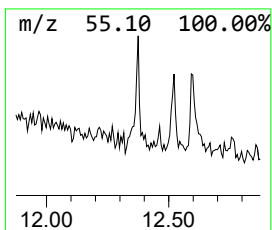
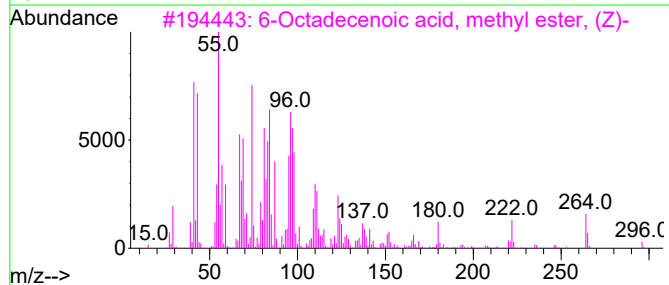
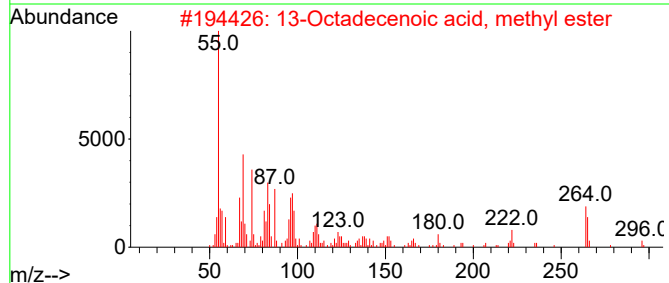
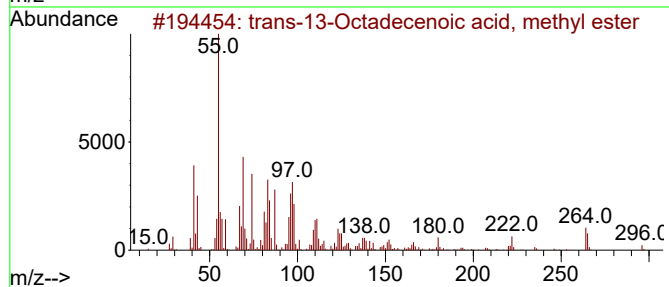
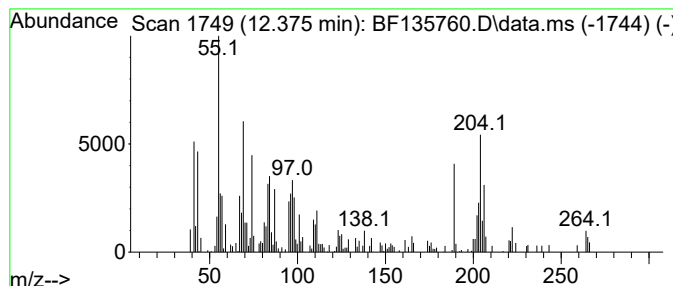
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 unknown12.375 Concentration Rank 7

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.375 | 3.31 ng | 130810 | Phenanthrene-d10 | 11.269 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | trans-13-Octadecenoic acid, meth... | 296 | C19H36O2 | 1000333-61-3 | 46   |
| 2    |    |   | 13-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-47-3  | 41   |
| 3    |    |   | 6-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 002777-58-4  | 38   |
| 4    |    |   | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12   | 006572-60-7  | 35   |
| 5    |    |   | 14-Pentadecenoic acid               | 240 | C15H28O2 | 017351-34-7  | 30   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

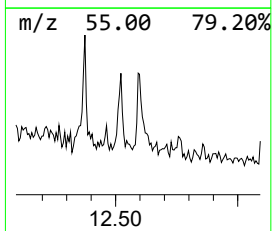
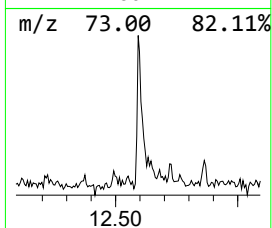
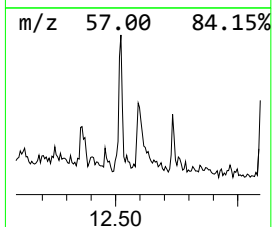
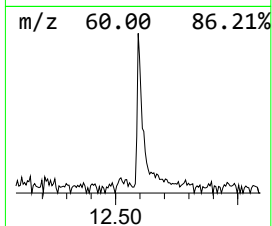
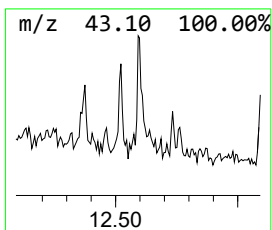
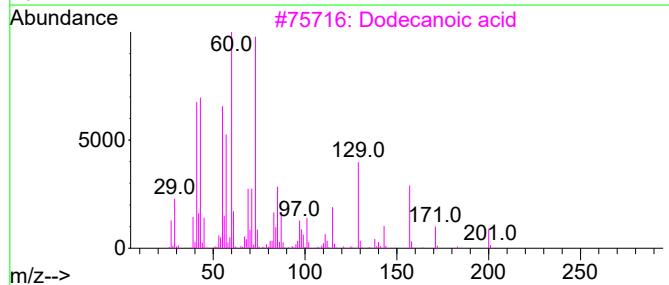
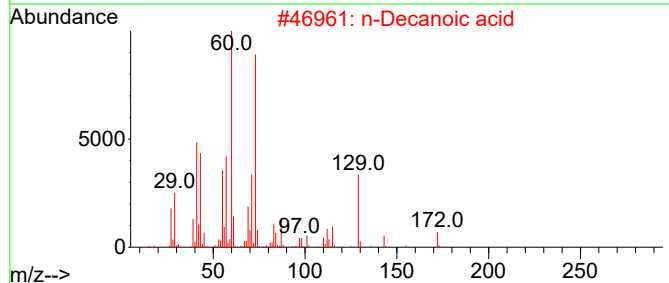
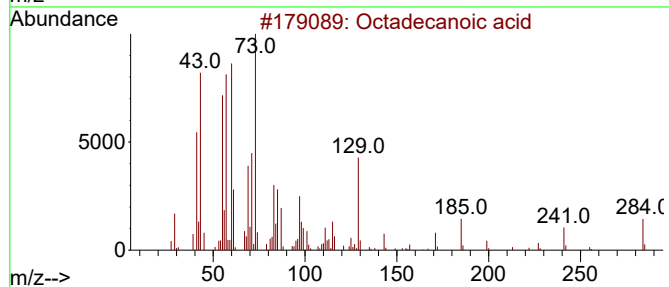
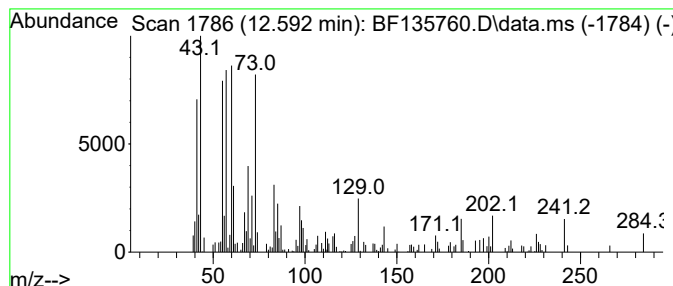
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Octadecanoic acid Concentration Rank 10

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 12.592 | 2.35 ng | 93149 | Phenanthrene-d10 | 11.269 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------|-----|----------|-------------|------|
| 1    |    |   | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 97   |
| 2    |    |   | n-Decanoic acid   | 172 | C10H20O2 | 000334-48-5 | 78   |
| 3    |    |   | Dodecanoic acid   | 200 | C12H24O2 | 000143-07-7 | 70   |
| 4    |    |   | Undecanoic acid   | 186 | C11H22O2 | 000112-37-8 | 70   |
| 5    |    |   | Nonanoic acid     | 158 | C9H18O2  | 000112-05-0 | 60   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

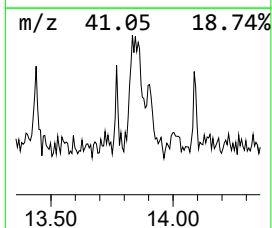
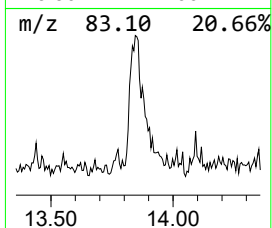
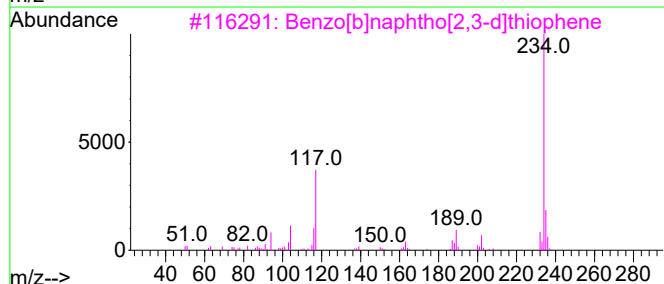
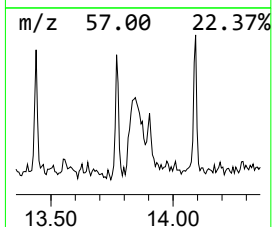
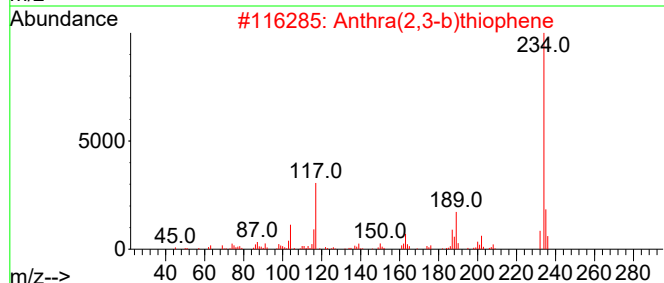
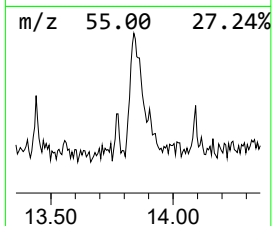
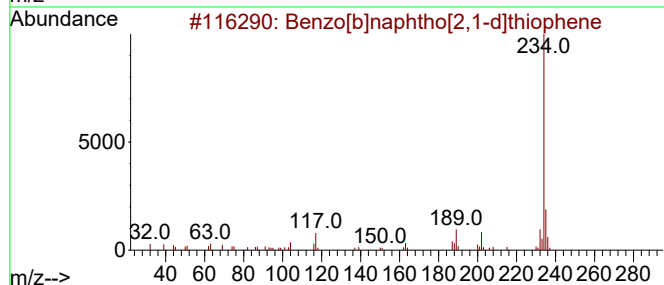
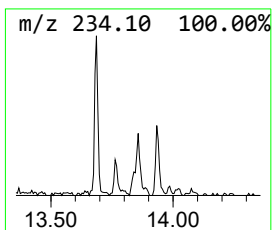
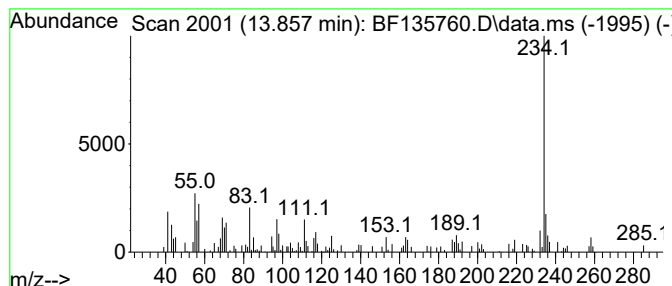
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 8

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.857 | 3.02 ng | 128011 | Chrysene-d12     | 13.933 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 90   |
| 2    |    |   | Anthra(2,3-b)thiophene          | 234 | C16H10S | 022108-55-0 | 81   |
| 3    |    |   | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 72   |
| 4    |    |   | Benzo[b]naphtho[1,2-d]thiophene | 234 | C16H10S | 000205-43-6 | 70   |
| 5    |    |   | Phenanthro[4,3-b]thiophene      | 234 | C16H10S | 000195-68-6 | 68   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

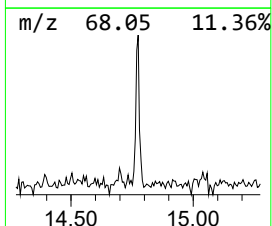
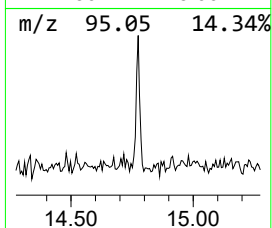
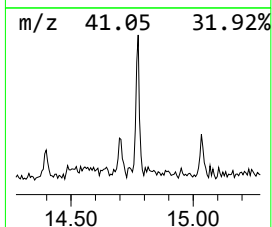
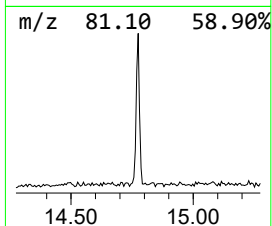
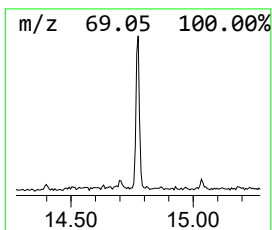
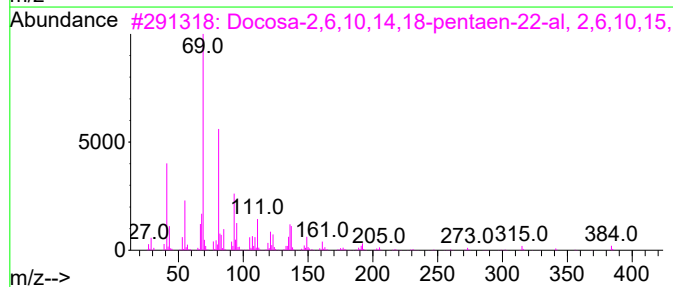
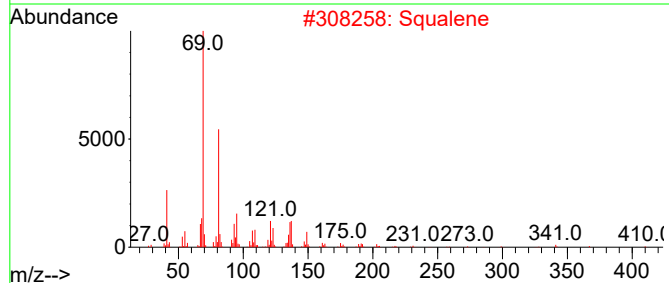
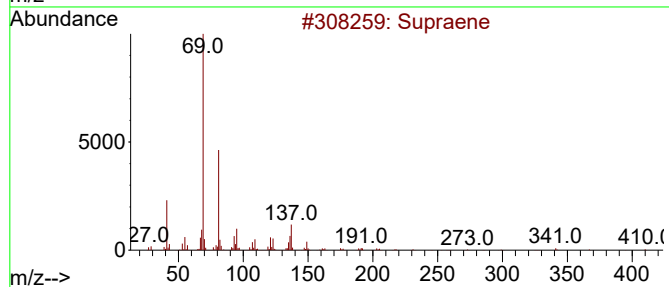
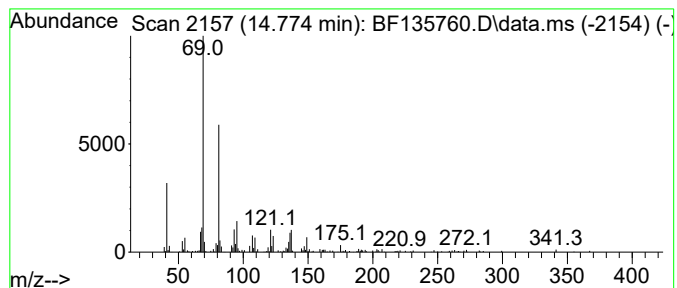
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 Supraene Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 14.774 | 3.78 ng | 128949 | Perylene-d12     | 15.410 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|------|-------------------------------------|-----|---------|--------------|------|
| 1    |      | Supraene                            | 410 | C30H50  | 007683-64-9  | 91   |
| 2    |      | Squalene                            | 410 | C30H50  | 000111-02-4  | 91   |
| 3    |      | Docosa-2,6,10,14,18-pentaen-22-a... | 384 | C27H44O | 1000163-04-7 | 90   |
| 4    |      | 7,11-Dimethyldodeca-2,6,10-trien... | 208 | C14H24O | 125529-10-4  | 64   |
| 5    |      | Farnesol (E), methyl ether          | 236 | C16H28O | 1000352-67-3 | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

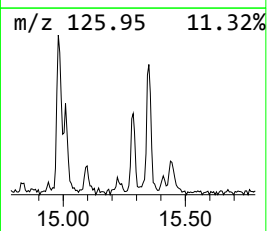
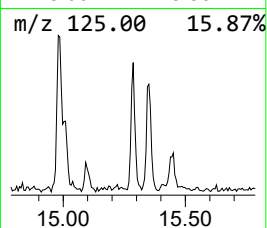
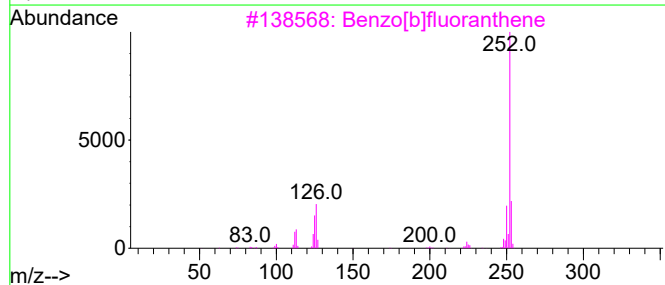
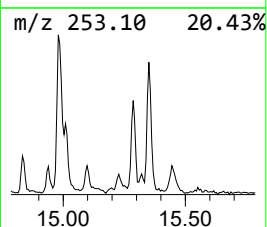
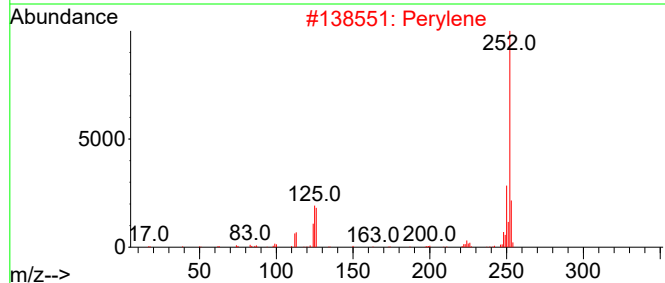
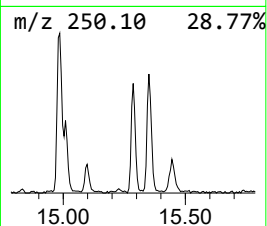
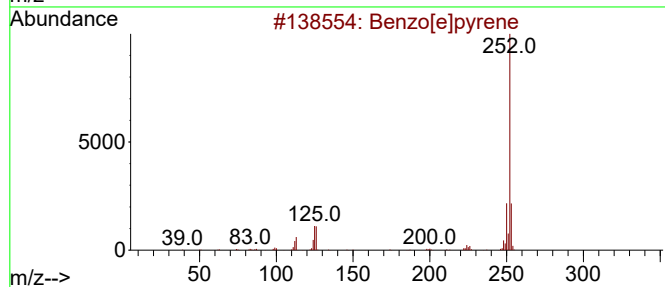
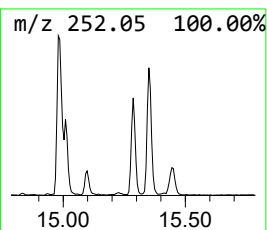
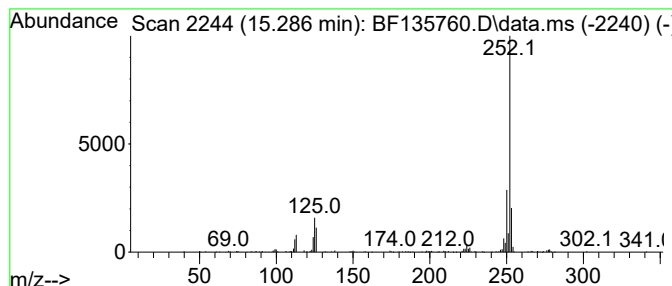
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Benzo[e]pyrene Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 15.286 | 4.43 ng | 151204 | Perylene-d12     | 15.410 |

| Hit# | of 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|------|----------------------|-----|---------|-------------|------|
| 1    |      | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 99   |
| 2    |      | Perylene             | 252 | C20H12  | 000198-55-0 | 95   |
| 3    |      | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 95   |
| 4    |      | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 94   |
| 5    |      | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

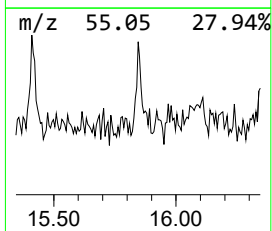
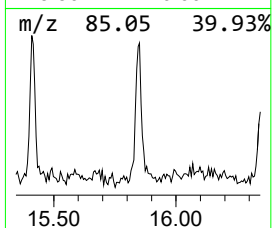
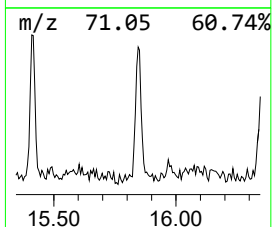
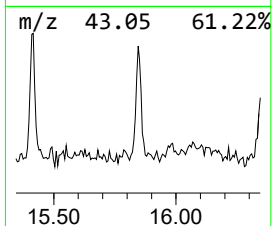
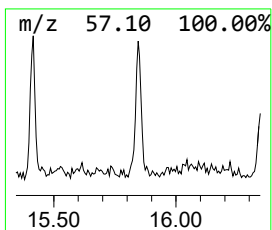
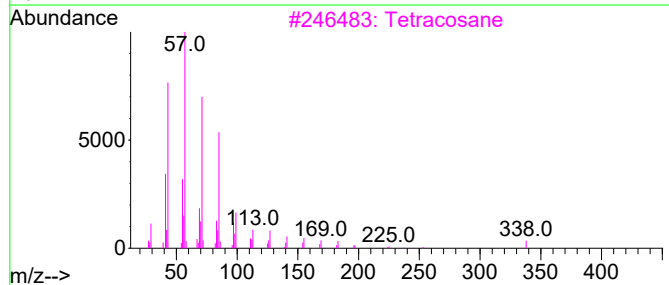
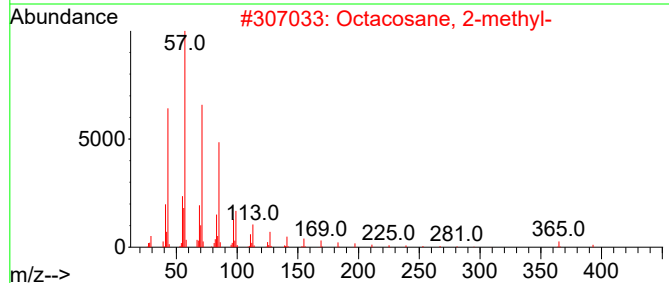
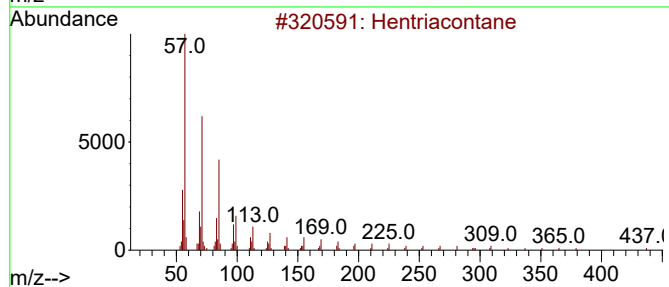
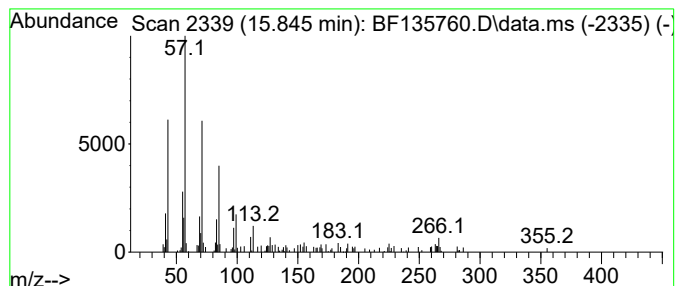
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Peak Number 13 Hentriacontane Concentration Rank 12

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 15.845 | 2.08 ng | 70992 | Perylene-d12     | 15.410 |

| Hit# | of 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|------|-----------------------|-----|---------|-------------|------|
| 1    |      | Hentriacontane        | 437 | C31H64  | 000630-04-6 | 90   |
| 2    |      | Octacosane, 2-methyl- | 408 | C29H60  | 001560-98-1 | 87   |
| 3    |      | Tetracosane           | 338 | C24H50  | 000646-31-1 | 87   |
| 4    |      | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 87   |
| 5    |      | Hexacosane            | 366 | C26H54  | 000630-01-3 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101323\  
Data File : BF135760.D  
Acq On : 13 Oct 2023 19:10  
Operator : CG\JU  
Sample : 04830-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RT-2327

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| Propane, 2-meth... | 4.969  | 4.5     | ng    | 147300   | 1                     | 6.734  | 655490 | 20.0 |
| 2,4,7,9-Tetrame... | 9.216  | 17.5    | ng    | 741431   | 3                     | 9.775  | 847718 | 20.0 |
| Naphtho[2,1-b]t... | 11.163 | 2.4     | ng    | 92830    | 4                     | 11.269 | 791247 | 20.0 |
| Anthracene, 2-m... | 11.775 | 2.7     | ng    | 107847   | 4                     | 11.269 | 791247 | 20.0 |
| Phenanthrene, 1... | 11.804 | 12.7    | ng    | 504041   | 4                     | 11.269 | 791247 | 20.0 |
| 4H-Cyclopenta[d... | 11.886 | 5.1     | ng    | 200811   | 4                     | 11.269 | 791247 | 20.0 |
| Phenanthrene, 2... | 12.328 | 2.0     | ng    | 80025    | 4                     | 11.269 | 791247 | 20.0 |
| unknown12.375      | 12.375 | 3.3     | ng    | 130810   | 4                     | 11.269 | 791247 | 20.0 |
| Octadecanoic acid  | 12.592 | 2.4     | ng    | 93149    | 4                     | 11.269 | 791247 | 20.0 |
| Benzo[b]naphtho... | 13.857 | 3.0     | ng    | 128011   | 5                     | 13.933 | 848052 | 20.0 |
| Supraene           | 14.774 | 3.8     | ng    | 128949   | 6                     | 15.410 | 683000 | 20.0 |
| Benzo[e]pyrene     | 15.286 | 4.4     | ng    | 151204   | 6                     | 15.410 | 683000 | 20.0 |
| Hentriacontane     | 15.845 | 2.1     | ng    | 70992    | 6                     | 15.410 | 683000 | 20.0 |