

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF060519\  
 Data File : BF114829.D  
 Acq On : 5 Jun 2019 20:21  
 Operator : HP/JU  
 Sample : K3183-05  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1

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-BF060419.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         | 5.275       | 536           | 542         | 545          | rBV      | 6896119        | 7966337       | 83.63%          | 6.916%        |
| 2         | 6.310       | 712           | 718         | 721          | rBV      | 6801331        | 8172661       | 85.79%          | 7.095%        |
| 3         | 6.439       | 735           | 740         | 743          | rBV      | 7996861        | 8591612       | 90.19%          | 7.459%        |
| 4         | 6.669       | 775           | 779         | 782          | rBV      | 2489915        | 2091305       | 21.95%          | 1.815%        |
| 5         | 6.828       | 801           | 806         | 808          | rBV      | 7322757        | 6669712       | 70.02%          | 5.790%        |
| 6         | 6.851       | 808           | 810         | 815          | rVB      | 194260         | 145719        | 1.53%           | 0.127%        |
| 7         | 7.228       | 869           | 874         | 877          | rBV      | 4985830        | 5545691       | 58.22%          | 4.814%        |
| 8         | 7.945       | 992           | 996         | 999          | rBV      | 3005394        | 2973123       | 31.21%          | 2.581%        |
| 9         | 7.969       | 999           | 1000        | 1003         | rVV      | 900436         | 491256        | 5.16%           | 0.426%        |
| 10        | 8.016       | 1006          | 1008        | 1014         | rVB      | 133079         | 125656        | 1.32%           | 0.109%        |
| 11        | 8.657       | 1114          | 1117        | 1121         | rVB      | 301033         | 231407        | 2.43%           | 0.201%        |
| 12        | 8.757       | 1129          | 1134        | 1137         | rVB      | 292791         | 230202        | 2.42%           | 0.200%        |
| 13        | 9.027       | 1175          | 1180        | 1183         | rBV      | 9426515        | 9446583       | 99.17%          | 8.201%        |
| 14        | 9.122       | 1193          | 1196        | 1199         | rVB      | 197165         | 151754        | 1.59%           | 0.132%        |
| 15        | 9.280       | 1218          | 1223        | 1228         | rBV      | 71829          | 100493        | 1.05%           | 0.087%        |
| 16        | 9.357       | 1233          | 1236        | 1238         | rBV      | 114785         | 99867         | 1.05%           | 0.087%        |
| 17        | 9.416       | 1243          | 1246        | 1249         | rBV      | 1965656        | 1607037       | 16.87%          | 1.395%        |
| 18        | 9.557       | 1266          | 1270        | 1274         | rBV      | 91329          | 106910        | 1.12%           | 0.093%        |
| 19        | 9.698       | 1288          | 1294        | 1297         | rBV      | 3775237        | 3492526       | 36.66%          | 3.032%        |
| 20        | 9.727       | 1297          | 1299        | 1302         | rVB      | 1009707        | 724259        | 7.60%           | 0.629%        |
| 21        | 9.898       | 1324          | 1328        | 1332         | rBV      | 473370         | 413188        | 4.34%           | 0.359%        |
| 22        | 10.239      | 1382          | 1386        | 1389         | rBV      | 383303         | 324982        | 3.41%           | 0.282%        |
| 23        | 10.398      | 1410          | 1413        | 1418         | rVB      | 120970         | 123799        | 1.30%           | 0.107%        |
| 24        | 10.480      | 1422          | 1427        | 1430         | rBV      | 6445096        | 6730227       | 70.65%          | 5.843%        |
| 25        | 10.786      | 1472          | 1479        | 1481         | rBV4     | 83061          | 140298        | 1.47%           | 0.122%        |
| 26        | 11.027      | 1516          | 1520        | 1523         | rBV3     | 93377          | 151632        | 1.59%           | 0.132%        |
| 27        | 11.063      | 1523          | 1526        | 1529         | rVB      | 166847         | 149283        | 1.57%           | 0.130%        |
| 28        | 11.168      | 1540          | 1544        | 1546         | rBV      | 3975284        | 3667828       | 38.50%          | 3.184%        |
| 29        | 11.192      | 1546          | 1548        | 1551         | rVV      | 2299477        | 1731291       | 18.17%          | 1.503%        |
| 30        | 11.239      | 1552          | 1556        | 1560         | rVB      | 523594         | 504859        | 5.30%           | 0.438%        |
| 31        | 11.280      | 1560          | 1563        | 1566         | rBV3     | 83166          | 95413         | 1.00%           | 0.083%        |
| 32        | 11.392      | 1577          | 1582        | 1586         | rBV      | 277931         | 299042        | 3.14%           | 0.260%        |
| 33        | 11.492      | 1596          | 1599        | 1603         | rVB3     | 79970          | 107656        | 1.13%           | 0.093%        |
| 34        | 11.668      | 1626          | 1629        | 1631         | rBV      | 343850         | 254453        | 2.67%           | 0.221%        |

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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-BF060419.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 11.698 | 1631 | 1634 | 1635 | rVV  | 469503  | 433039  | 4.55%   | 0.376% |
| 36 | 11.715 | 1635 | 1637 | 1640 | rVV  | 1226531 | 1063035 | 11.16%  | 0.923% |
| 37 | 11.739 | 1640 | 1641 | 1645 | rVV  | 263365  | 251385  | 2.64%   | 0.218% |
| 38 | 11.780 | 1645 | 1648 | 1650 | rVV  | 619322  | 630036  | 6.61%   | 0.547% |
| 39 | 11.804 | 1650 | 1652 | 1655 | rVB  | 232422  | 184342  | 1.94%   | 0.160% |
| 40 | 11.963 | 1676 | 1679 | 1681 | rBV  | 250420  | 223028  | 2.34%   | 0.194% |
| 41 | 12.115 | 1702 | 1705 | 1708 | rBV2 | 102271  | 95315   | 1.00%   | 0.083% |
| 42 | 12.215 | 1719 | 1722 | 1725 | rBV  | 217411  | 233855  | 2.45%   | 0.203% |
| 43 | 12.251 | 1725 | 1728 | 1730 | rVV  | 113487  | 107522  | 1.13%   | 0.093% |
| 44 | 12.298 | 1734 | 1736 | 1741 | rVB3 | 135684  | 182686  | 1.92%   | 0.159% |
| 45 | 12.374 | 1745 | 1749 | 1753 | rBV  | 3470970 | 2895563 | 30.40%  | 2.514% |
| 46 | 12.427 | 1755 | 1758 | 1760 | rBV2 | 221432  | 215939  | 2.27%   | 0.187% |
| 47 | 12.451 | 1760 | 1762 | 1766 | rVB3 | 277087  | 280308  | 2.94%   | 0.243% |
| 48 | 12.498 | 1766 | 1770 | 1773 | rBV3 | 592075  | 669123  | 7.02%   | 0.581% |
| 49 | 12.598 | 1782 | 1787 | 1790 | rBV2 | 2741034 | 2934881 | 30.81%  | 2.548% |
| 50 | 12.651 | 1794 | 1796 | 1798 | rBV  | 139215  | 103828  | 1.09%   | 0.090% |
| 51 | 12.721 | 1805 | 1808 | 1809 | rBV  | 195408  | 157623  | 1.65%   | 0.137% |
| 52 | 12.757 | 1809 | 1814 | 1817 | rVV2 | 8868433 | 9525845 | 100.00% | 8.270% |
| 53 | 12.821 | 1820 | 1825 | 1828 | rBV3 | 252182  | 388139  | 4.07%   | 0.337% |
| 54 | 12.904 | 1837 | 1839 | 1841 | rBV  | 125869  | 139915  | 1.47%   | 0.121% |
| 55 | 12.927 | 1841 | 1843 | 1848 | rVB  | 508692  | 469287  | 4.93%   | 0.407% |
| 56 | 12.998 | 1852 | 1855 | 1858 | rBV2 | 368316  | 341290  | 3.58%   | 0.296% |
| 57 | 13.033 | 1858 | 1861 | 1863 | rBV  | 344636  | 326341  | 3.43%   | 0.283% |
| 58 | 13.121 | 1873 | 1876 | 1879 | rVB  | 179902  | 145889  | 1.53%   | 0.127% |
| 59 | 13.151 | 1879 | 1881 | 1888 | rBV2 | 180733  | 186163  | 1.95%   | 0.162% |
| 60 | 13.427 | 1926 | 1928 | 1933 | rVB  | 196858  | 233944  | 2.46%   | 0.203% |
| 61 | 13.539 | 1943 | 1947 | 1950 | rBV2 | 262851  | 344178  | 3.61%   | 0.299% |
| 62 | 13.568 | 1950 | 1952 | 1954 | rVV  | 185121  | 149528  | 1.57%   | 0.130% |
| 63 | 13.633 | 1961 | 1963 | 1965 | rBV  | 140304  | 118987  | 1.25%   | 0.103% |
| 64 | 13.657 | 1965 | 1967 | 1974 | rVB3 | 601365  | 669166  | 7.02%   | 0.581% |
| 65 | 13.792 | 1985 | 1990 | 1993 | rBV2 | 3517772 | 4497492 | 47.21%  | 3.904% |
| 66 | 13.815 | 1993 | 1994 | 1997 | rVB  | 1181730 | 801030  | 8.41%   | 0.695% |
| 67 | 13.898 | 2006 | 2008 | 2010 | rVB  | 177918  | 122651  | 1.29%   | 0.106% |
| 68 | 13.986 | 2020 | 2023 | 2025 | rBV3 | 284242  | 288633  | 3.03%   | 0.251% |
| 69 | 14.180 | 2053 | 2056 | 2059 | rVB  | 264318  | 259773  | 2.73%   | 0.226% |
| 70 | 14.215 | 2059 | 2062 | 2065 | rBV  | 178987  | 162681  | 1.71%   | 0.141% |
| 71 | 14.298 | 2073 | 2076 | 2079 | rVB2 | 530224  | 485814  | 5.10%   | 0.422% |

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Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

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-BF060419.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 14.598 | 2124 | 2127 | 2131 | rVB  | 680742  | 655175  | 6.88%  | 0.569% |
| 73 | 14.804 | 2158 | 2162 | 2165 | rBV  | 1099530 | 1592259 | 16.72% | 1.382% |
| 74 | 14.904 | 2176 | 2179 | 2189 | rVB2 | 817641  | 1020251 | 10.71% | 0.886% |
| 75 | 15.074 | 2205 | 2208 | 2214 | rVB  | 642620  | 732585  | 7.69%  | 0.636% |
| 76 | 15.133 | 2214 | 2218 | 2223 | rBV  | 929126  | 1064857 | 11.18% | 0.924% |
| 77 | 15.192 | 2223 | 2228 | 2231 | rVV  | 2430738 | 2861956 | 30.04% | 2.485% |
| 78 | 15.251 | 2235 | 2238 | 2243 | rVB  | 664256  | 815273  | 8.56%  | 0.708% |
| 79 | 15.651 | 2302 | 2306 | 2310 | rBV  | 483380  | 666048  | 6.99%  | 0.578% |
| 80 | 16.103 | 2379 | 2383 | 2388 | rVB  | 406430  | 615343  | 6.46%  | 0.534% |
| 81 | 16.498 | 2446 | 2450 | 2460 | rVB2 | 406624  | 710471  | 7.46%  | 0.617% |
| 82 | 16.886 | 2513 | 2516 | 2527 | rVB  | 277934  | 481396  | 5.05%  | 0.418% |

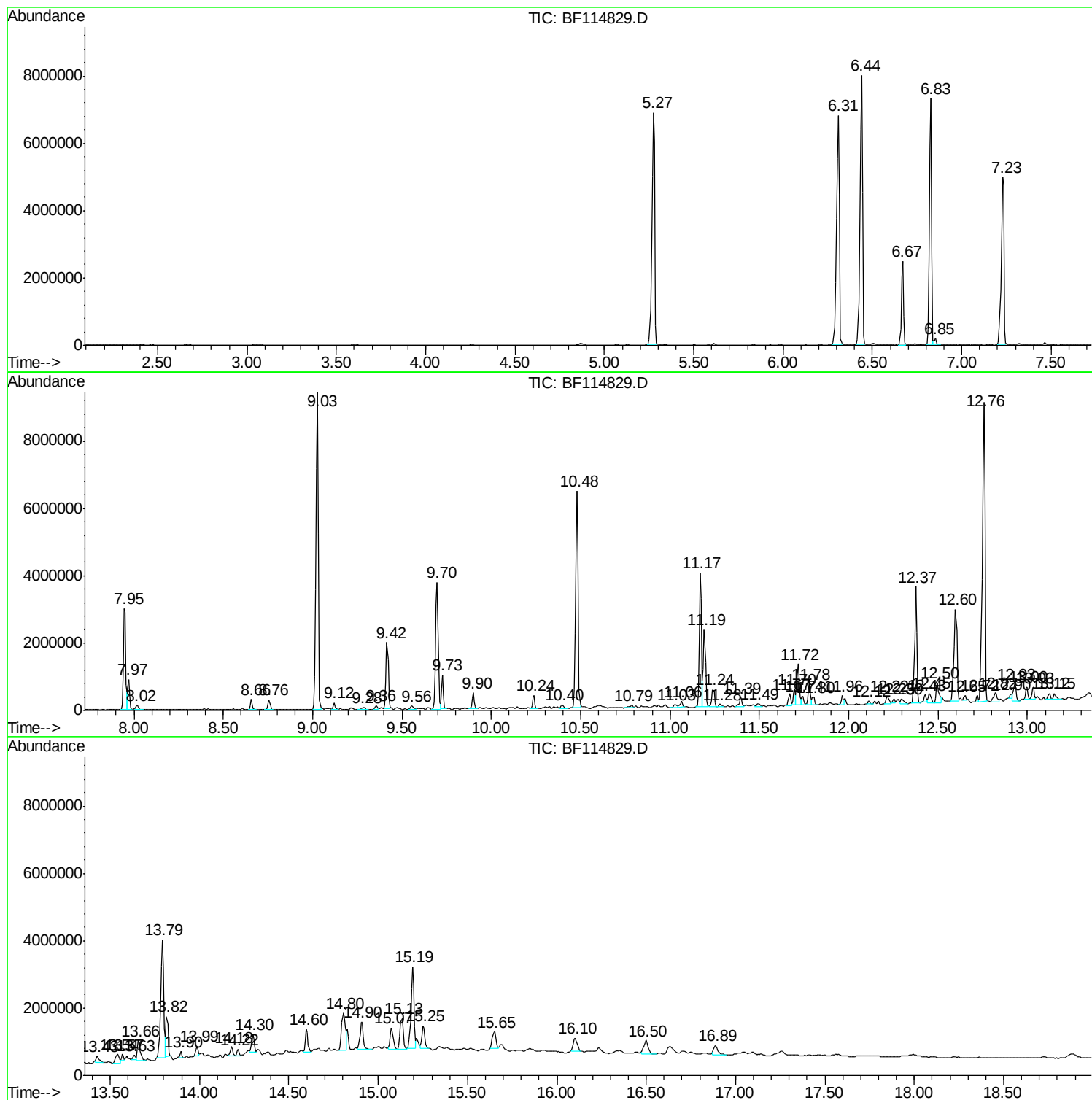
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Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\  
Data File : BF114829.D  
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Instrument :  
BNA\_F  
ClientSampled :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.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\BF060519\  
Data File : BF114829.D  
Acq On : 5 Jun 2019 20:21  
Operator : HP/JU  
Sample : K3183-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

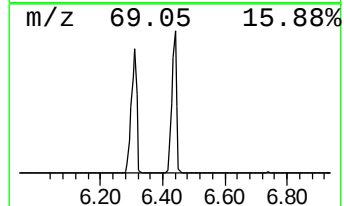
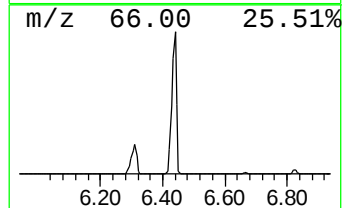
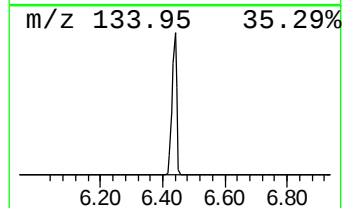
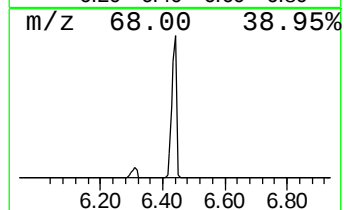
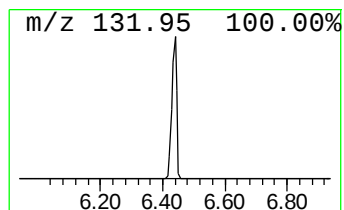
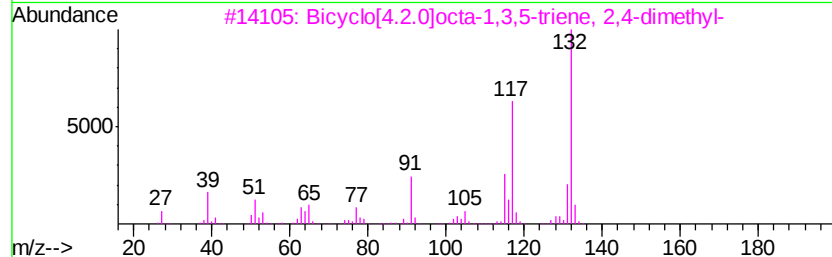
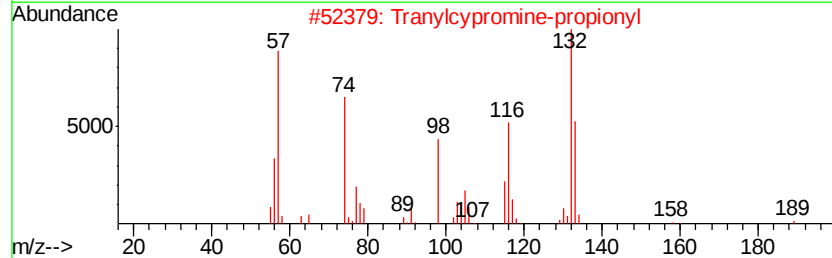
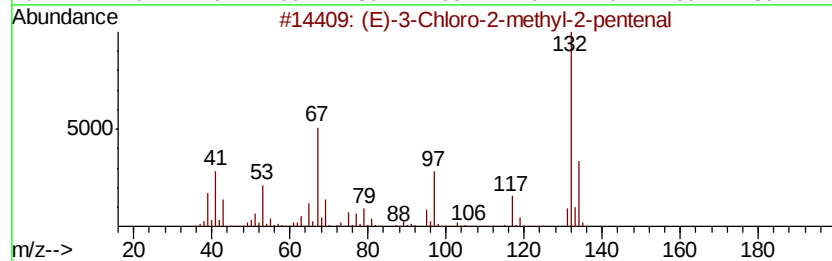
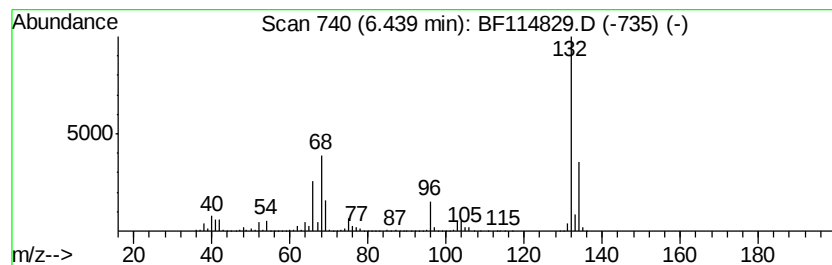
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 unknown6.44 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.44 | 82.17 ng | 8591610 | 1,4-Dichlorobenzene-d4 | 6.67 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 2    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 3    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 4    |    | 4-Chloro-2-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 5    |    | Xenon                               | 132 | Xe        | 007440-63-3  | 9    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

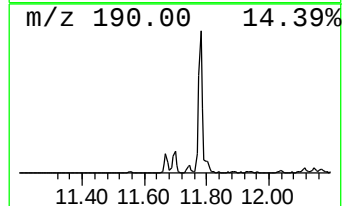
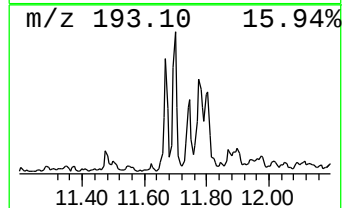
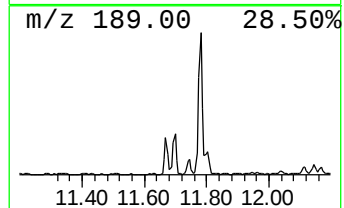
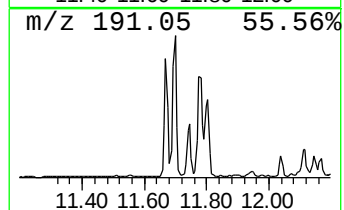
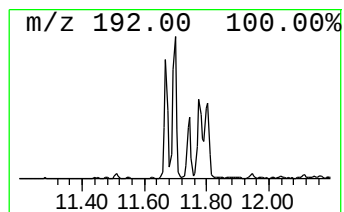
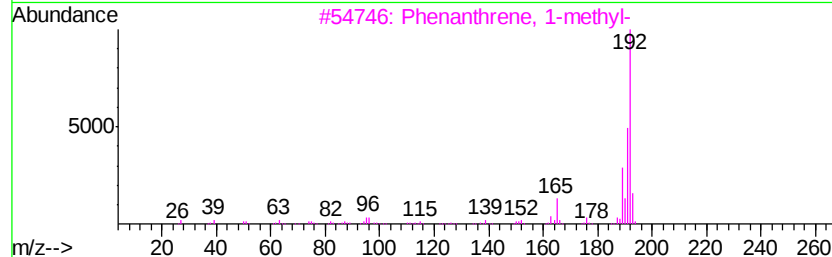
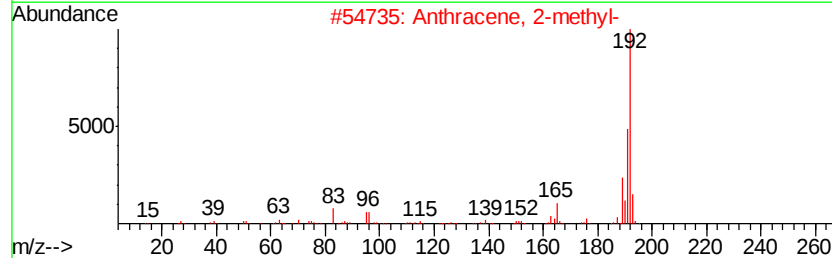
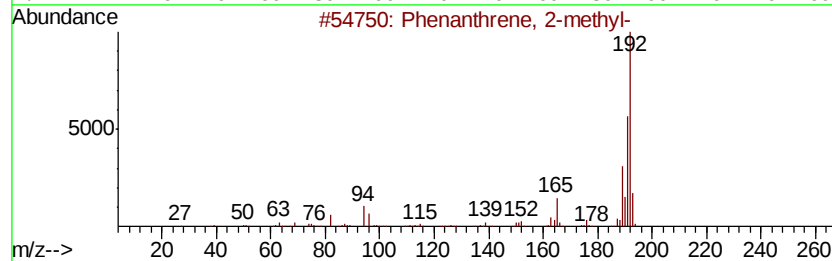
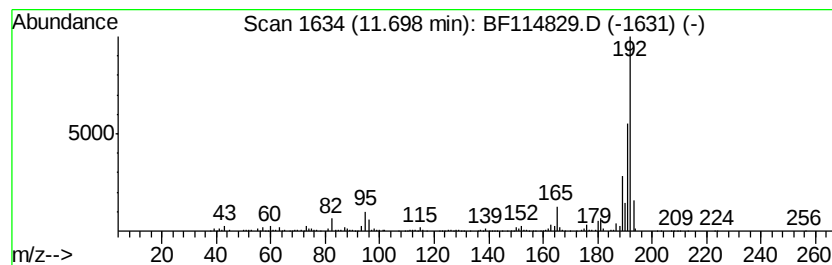
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.70 | 2.36 ng | 433039 | Phenanthrene-d10 | 11.17 |

| Hit# | of | Tentative ID                           | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2-methyl-                | 192 | C15H12  | 002531-84-2 | 97   |
| 2    |    | Anthracene, 2-methyl-                  | 192 | C15H12  | 000613-12-7 | 96   |
| 3    |    | Phenanthrene, 1-methyl-                | 192 | C15H12  | 000832-69-9 | 96   |
| 4    |    | 1H-Cyclopropa[1,1]phenanthrene, 1a,... | 192 | C15H12  | 000949-41-7 | 96   |
| 5    |    | Phenanthrene, 3-methyl-                | 192 | C15H12  | 000832-71-3 | 94   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

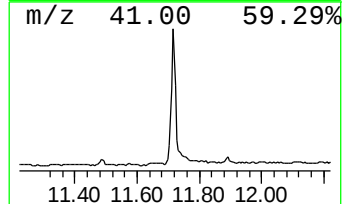
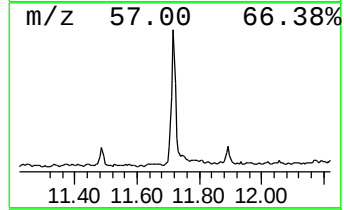
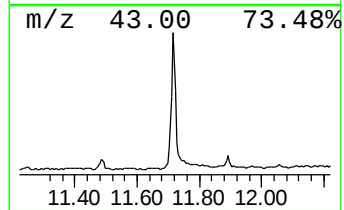
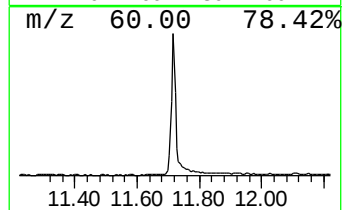
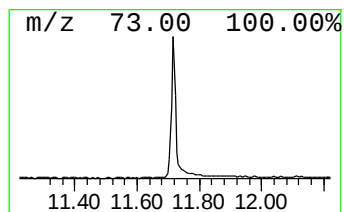
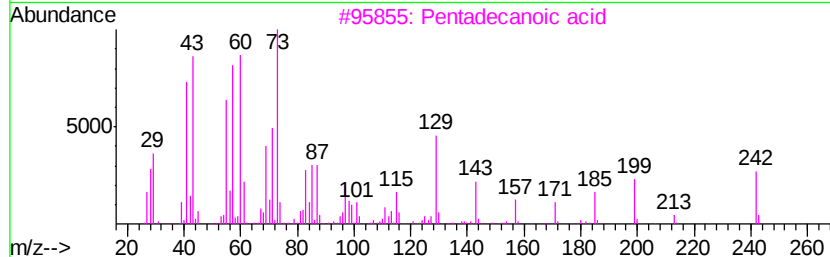
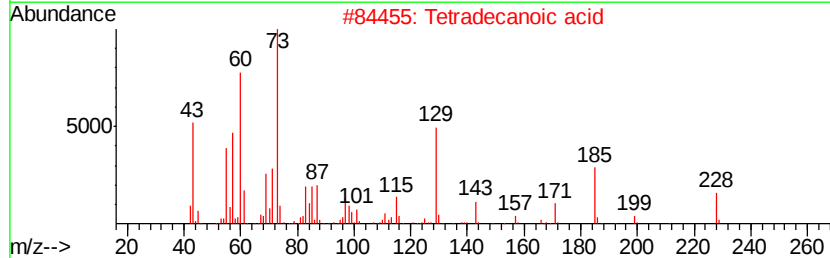
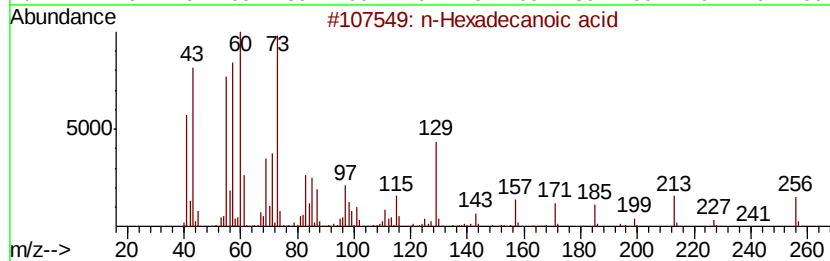
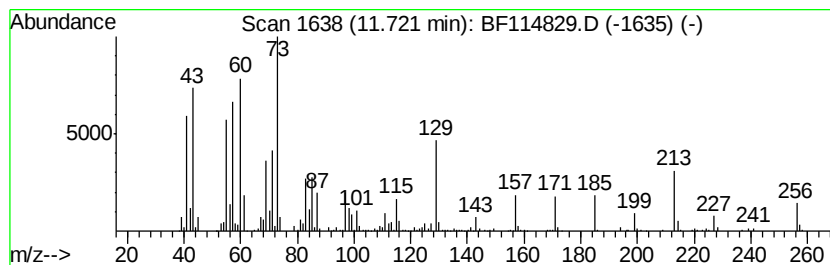
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc | Area    | Relative to ISTD | R.T.  |
|-------|---------|---------|------------------|-------|
| 11.72 | 5.80 ng | 1063040 | Phenanthrene-d10 | 11.17 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 91   |
| 3       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 90   |
| 4       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 76   |
| 5       |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\  
Data File : BF114829.D  
Acq On : 5 Jun 2019 20:21  
Operator : HP/JU  
Sample : K3183-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

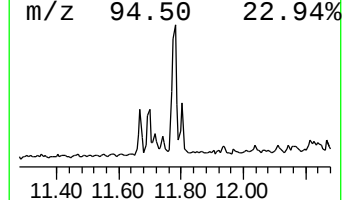
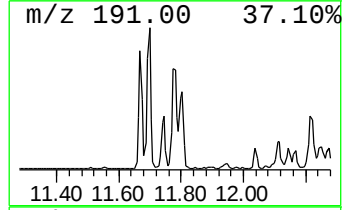
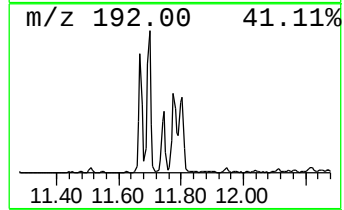
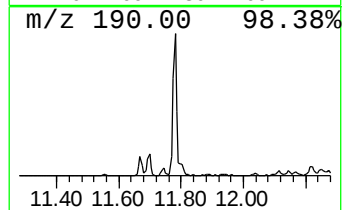
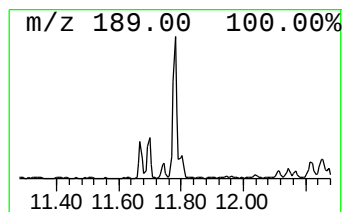
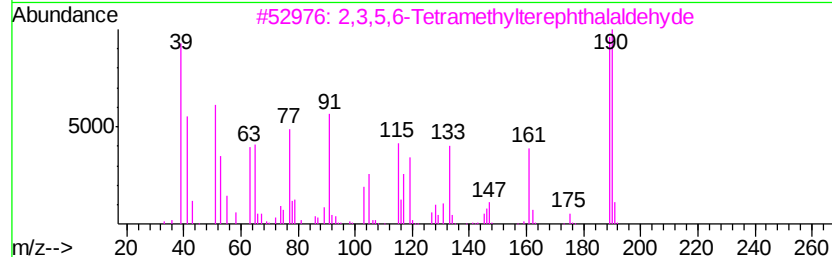
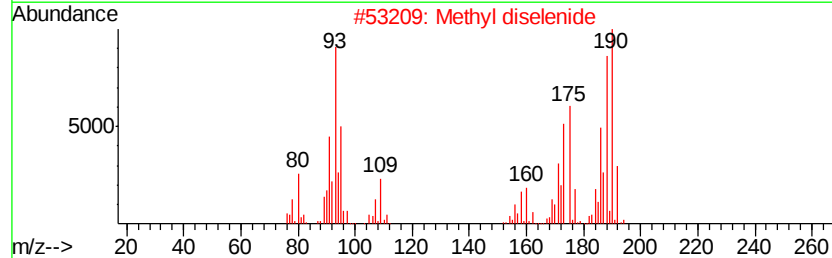
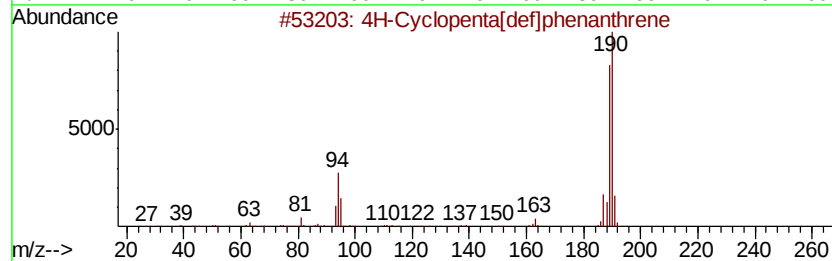
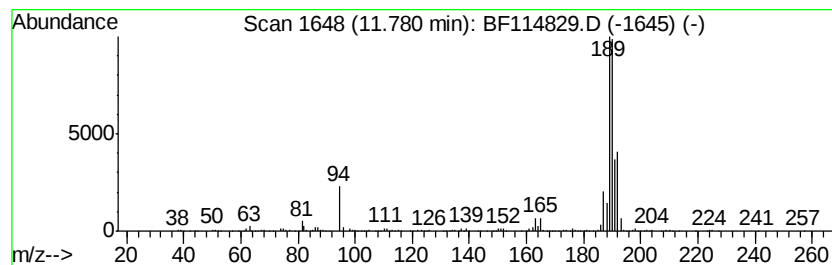
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.78 | 3.44 ng | 630036 | Phenanthrene-d10 | 11.17 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10   | 000203-64-5 | 94   |
| 2    |    | Methyl diselenide                   | 190 | C2H6Se2  | 007101-31-7 | 49   |
| 3    |    | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 47   |
| 4    |    | 6H-Cyclobuta[flk]phenanthrene       | 190 | C15H10   | 083469-43-6 | 42   |
| 5    |    | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4 | 069286-06-2 | 42   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\  
Data File : BF114829.D  
Acq On : 5 Jun 2019 20:21  
Operator : HP/JU  
Sample : K3183-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

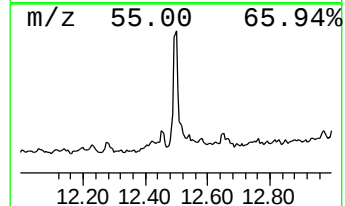
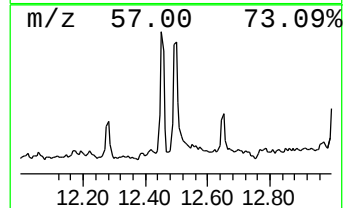
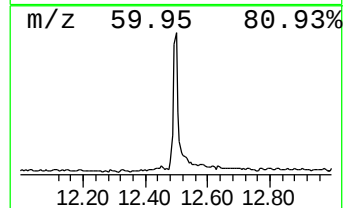
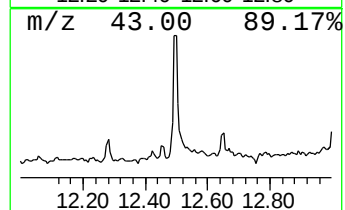
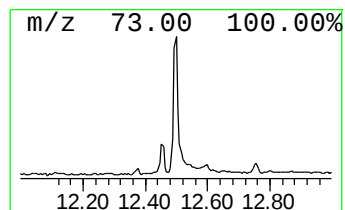
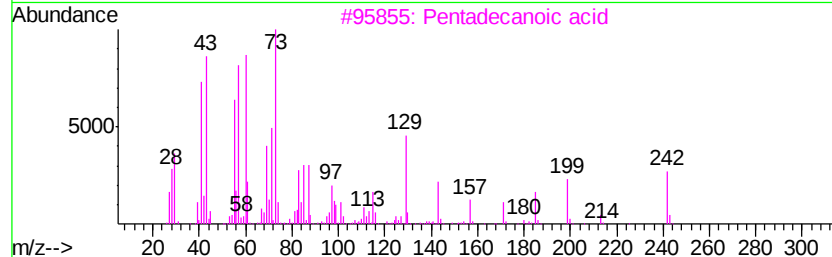
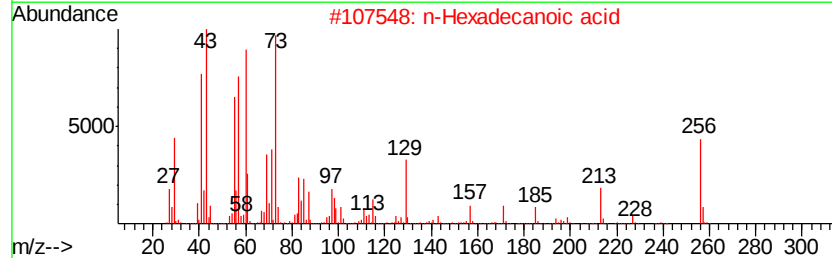
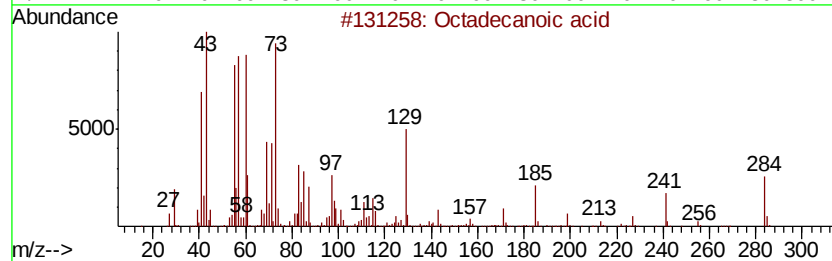
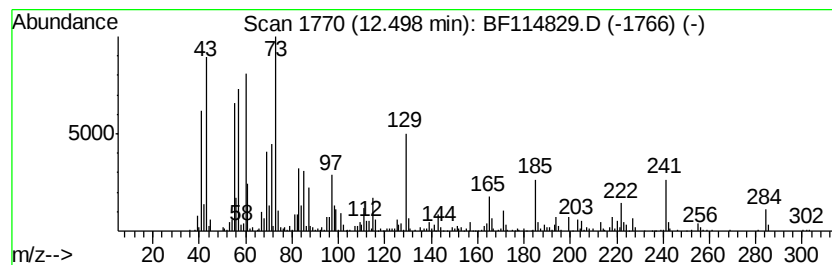
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.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 6 Octadecanoic acid Concentration Rank 12

| R.T.    | EstConc | Area                               | Relative to ISTD | R.T.     |             |      |
|---------|---------|------------------------------------|------------------|----------|-------------|------|
| 12.50   | 2.98 ng | 669123                             | Chrysene-d12     | 13.79    |             |      |
| Hit# of | 5       | Tentative ID                       | MW               | MolForm  | CAS#        | Qual |
| 1       |         | Octadecanoic acid                  | 284              | C18H36O2 | 000057-11-4 | 99   |
| 2       |         | n-Hexadecanoic acid                | 256              | C16H32O2 | 000057-10-3 | 91   |
| 3       |         | Pentadecanoic acid                 | 242              | C15H30O2 | 001002-84-2 | 86   |
| 4       |         | Tetradecanoic acid                 | 228              | C14H28O2 | 000544-63-8 | 81   |
| 5       |         | Octadecanoic acid, 2-(2-hydroxy... | 372              | C22H44O4 | 000106-11-6 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\  
Data File : BF114829.D  
Acq On : 5 Jun 2019 20:21  
Operator : HP/JU  
Sample : K3183-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

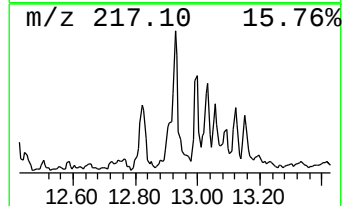
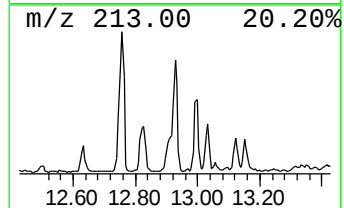
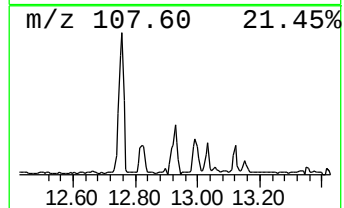
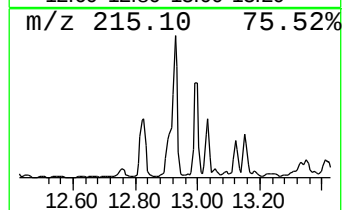
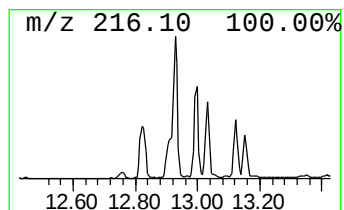
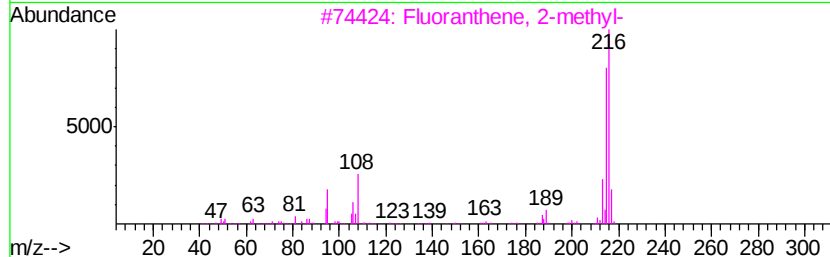
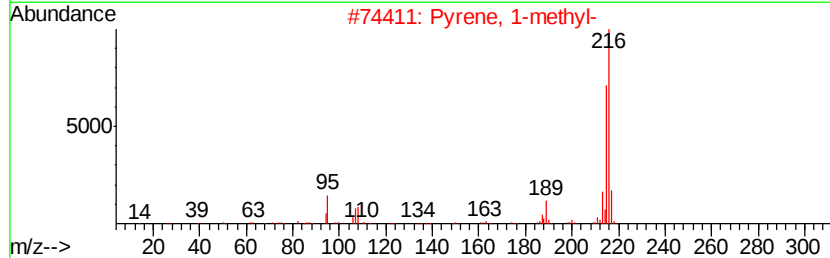
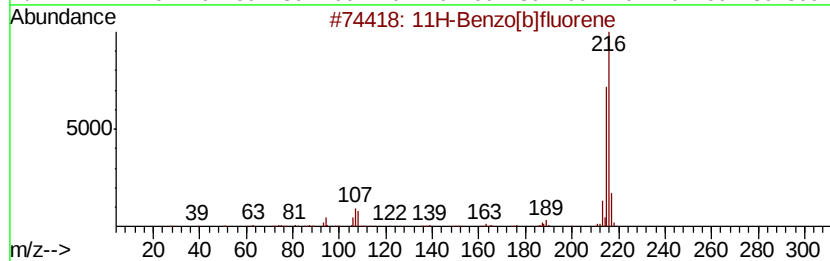
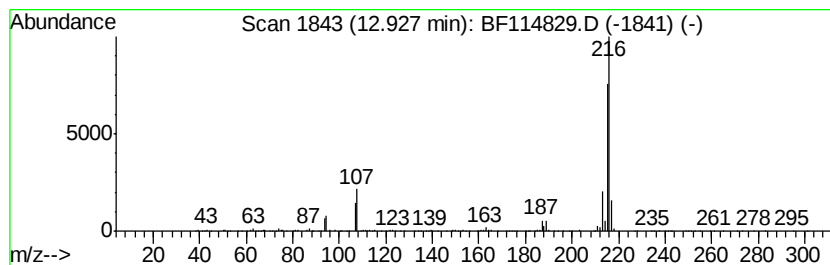
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 11H-Benzo[b]fluorene Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.93 | 2.09 ng | 469287 | Chrysene-d12     | 13.79 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 83   |
| 2    |    | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 83   |
| 3    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 81   |
| 4    |    | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 81   |
| 5    |    | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\  
Data File : BF114829.D  
Acq On : 5 Jun 2019 20:21  
Operator : HP/JU  
Sample : K3183-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

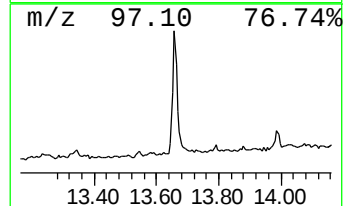
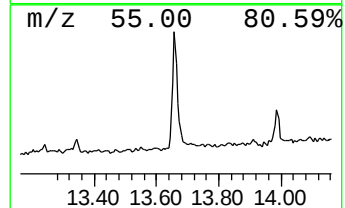
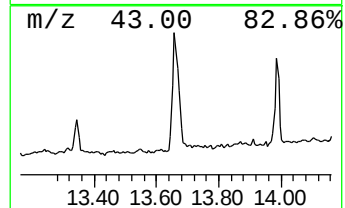
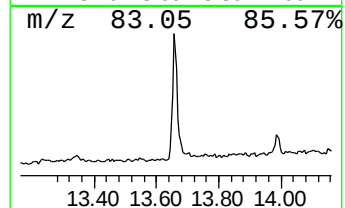
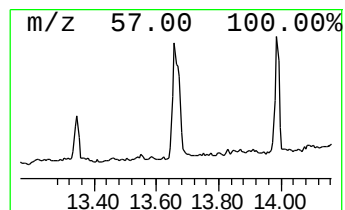
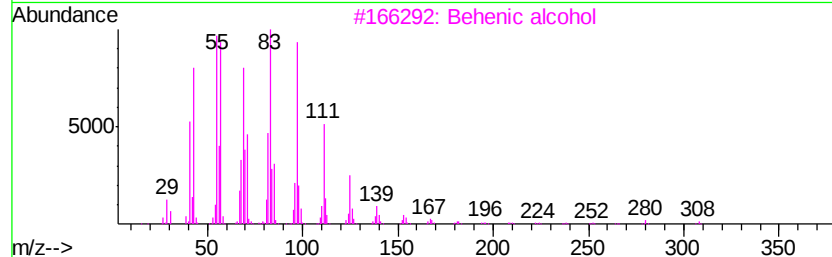
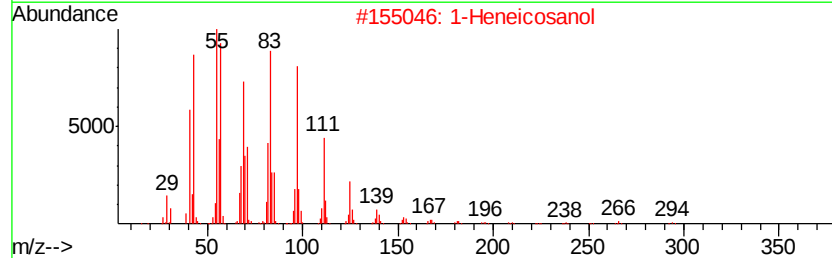
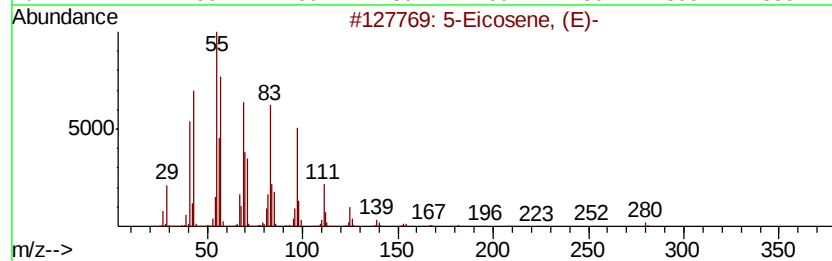
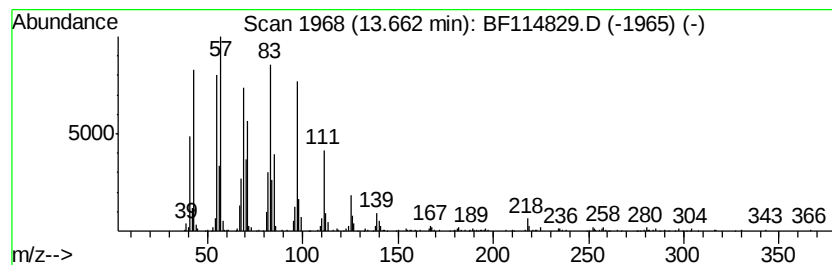
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 5-Eicosene, (E)- Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.66 | 2.98 ng | 669166 | Chrysene-d12     | 13.79 |

| Hit# | of | Tentative ID         | MW  | MolForm  | CAS#        | Qual |
|------|----|----------------------|-----|----------|-------------|------|
| 1    | 5  | 5-Eicosene, (E)-     | 280 | C20H40   | 074685-30-6 | 95   |
| 2    |    | 1-Heneicosanol       | 312 | C21H44O  | 015594-90-8 | 94   |
| 3    |    | Behenic alcohol      | 326 | C22H46O  | 000661-19-8 | 94   |
| 4    |    | 1-Heneicosyl formate | 340 | C22H44O2 | 077899-03-7 | 94   |
| 5    |    | 3-Eicosene, (E)-     | 280 | C20H40   | 074685-33-9 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\  
Data File : BF114829.D  
Acq On : 5 Jun 2019 20:21  
Operator : HP/JU  
Sample : K3183-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

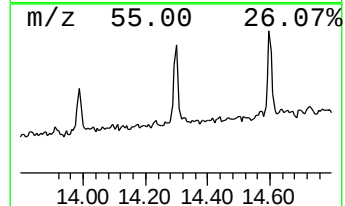
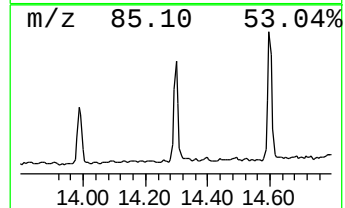
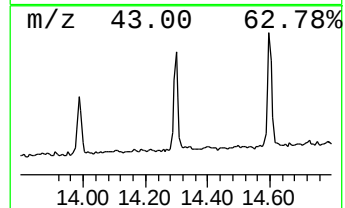
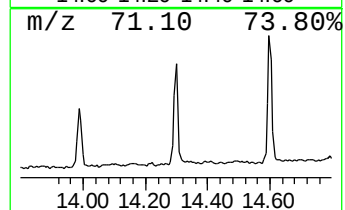
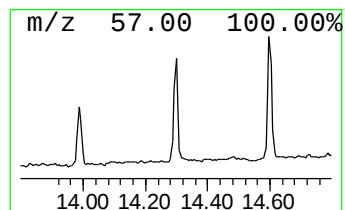
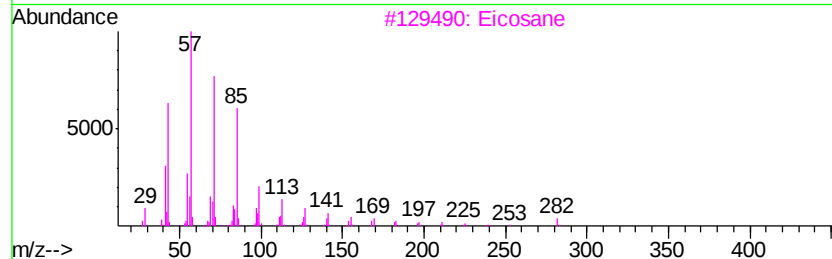
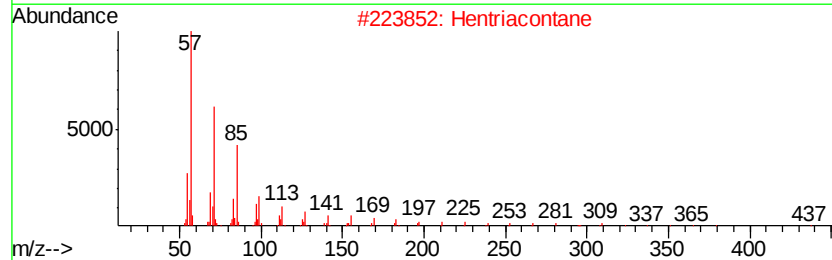
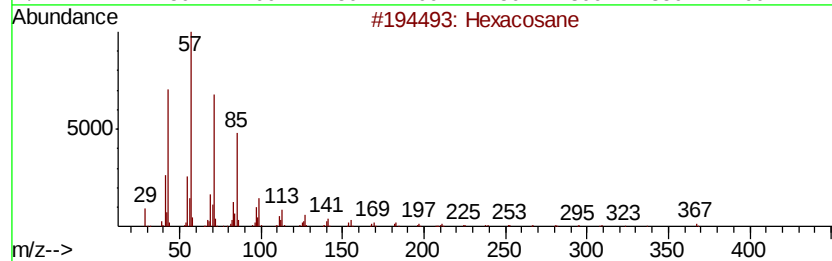
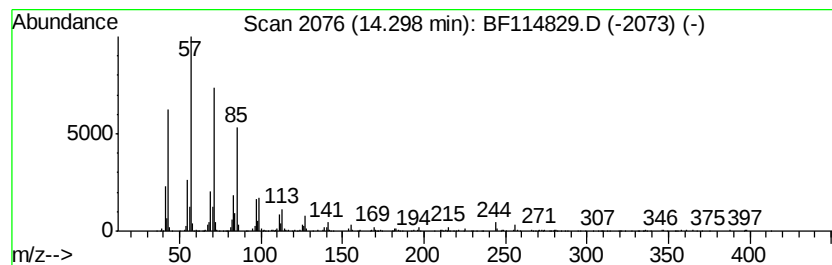
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Hexacosane Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.30 | 2.16 ng | 485814 | Chrysene-d12     | 13.79 |

| Hit# | of | Tentative ID    | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------|-----|---------|-------------|------|
| 1    | 5  | Hexacosane      | 366 | C26H54  | 000630-01-3 | 87   |
| 2    |    | Hentriacontane  | 437 | C31H64  | 000630-04-6 | 87   |
| 3    |    | Eicosane        | 282 | C20H42  | 000112-95-8 | 87   |
| 4    |    | Heneicosane     | 296 | C21H44  | 000629-94-7 | 87   |
| 5    |    | Tritetracontane | 605 | C43H88  | 007098-21-7 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\  
Data File : BF114829.D  
Acq On : 5 Jun 2019 20:21  
Operator : HP/JU  
Sample : K3183-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

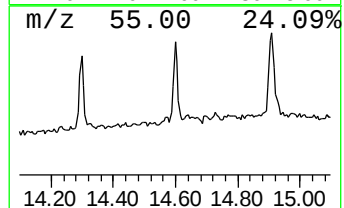
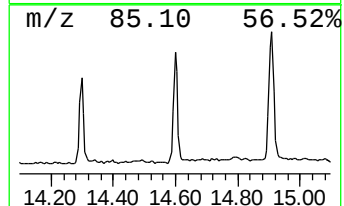
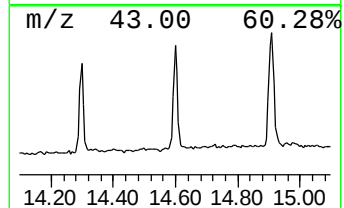
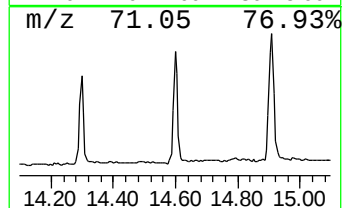
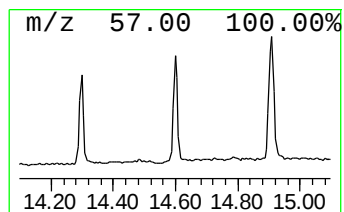
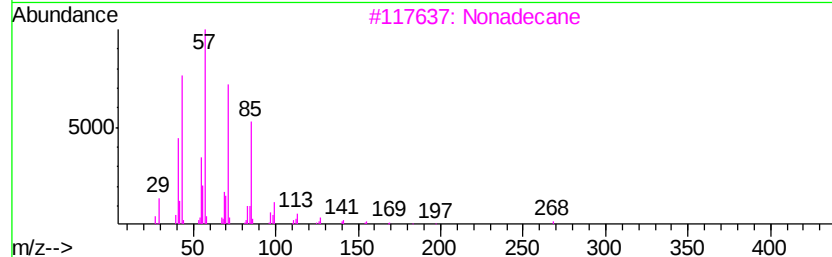
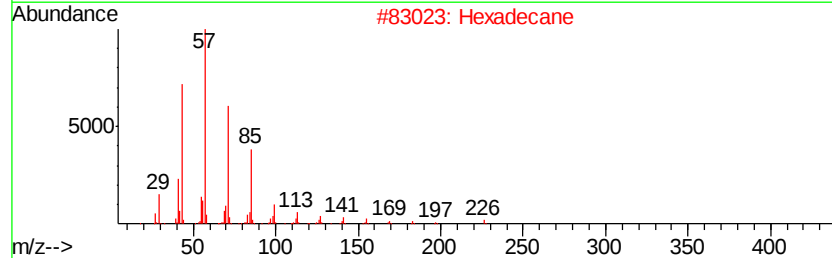
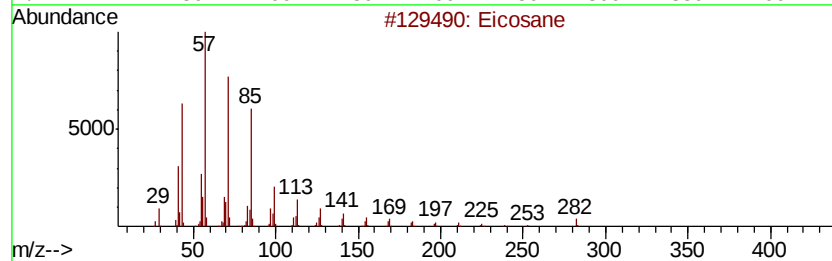
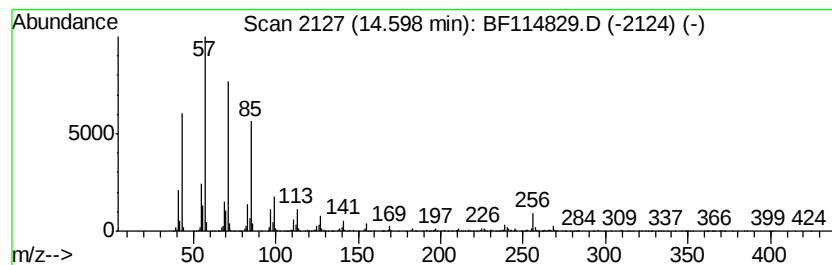
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.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 10 Eicosane Concentration Rank 8

| R.T.    | EstConc     | Area         | Relative to ISTD | R.T.      |
|---------|-------------|--------------|------------------|-----------|
| 14.60   | 4.58 ng     | 655175       | Perylene-d12     | 15.19     |
| Hit# of | 5           | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Eicosane    | 282 C20H42   | 000112-95-8      | 98        |
| 2       | Hexadecane  | 226 C16H34   | 000544-76-3      | 95        |
| 3       | Nonadecane  | 268 C19H40   | 000629-92-5      | 93        |
| 4       | Heneicosane | 296 C21H44   | 000629-94-7      | 90        |
| 5       | Octacosane  | 394 C28H58   | 000630-02-4      | 90        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\  
Data File : BF114829.D  
Acq On : 5 Jun 2019 20:21  
Operator : HP/JU  
Sample : K3183-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

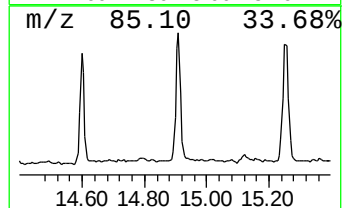
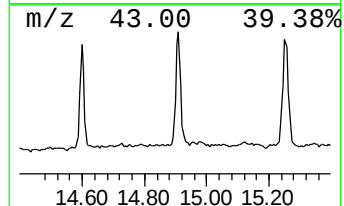
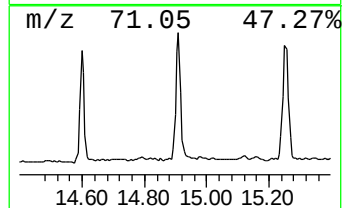
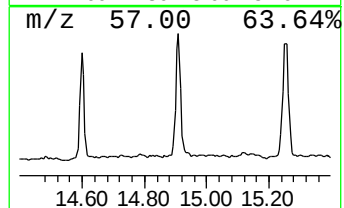
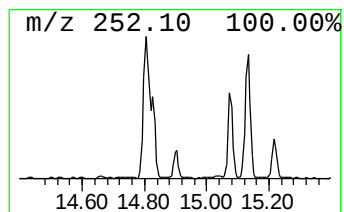
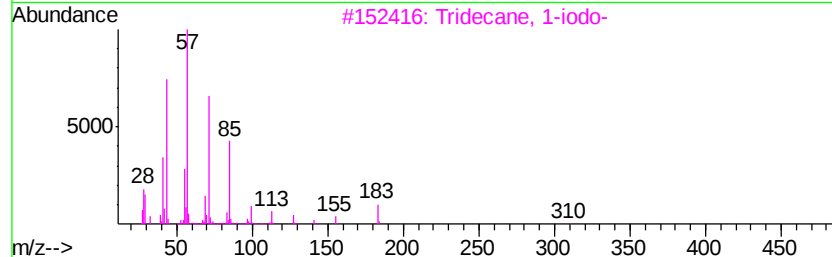
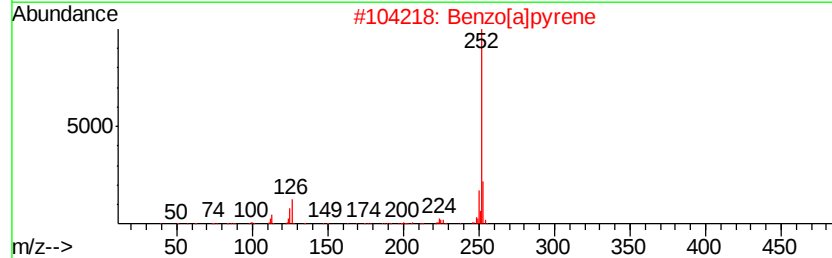
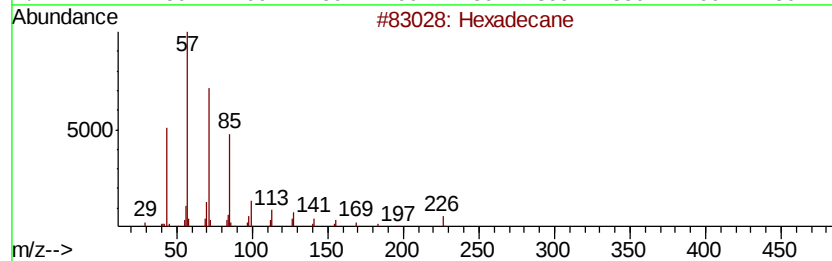
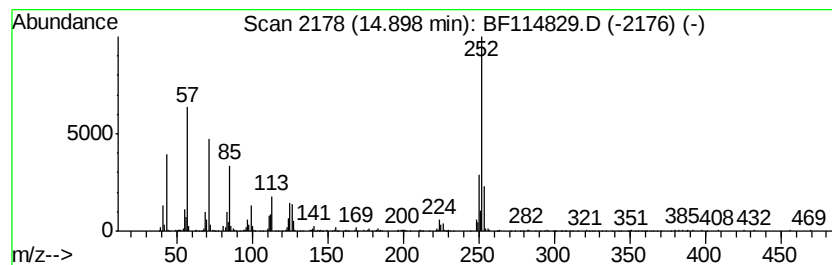
Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.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 11 Hexadecane Concentration Rank 3

| R.T.    | EstConc                   | Area         | Relative to ISTD | R.T.      |
|---------|---------------------------|--------------|------------------|-----------|
| 14.90   | 7.13 ng                   | 1020250      | Perylene-d12     | 15.19     |
| Hit# of | 5                         | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Hexadecane                | 226 C16H34   | 000544-76-3      | 95        |
| 2       | Benzo[a]pyrene            | 252 C20H12   | 000050-32-8      | 64        |
| 3       | Tridecane, 1-iodo-        | 310 C13H27I  | 035599-77-0      | 55        |
| 4       | Benz[el]acephenanthrylene | 252 C20H12   | 000205-99-2      | 55        |
| 5       | Eicosane, 10-methyl-      | 296 C21H44   | 054833-23-7      | 55        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\  
Data File : BF114829.D  
Acq On : 5 Jun 2019 20:21  
Operator : HP/JU  
Sample : K3183-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

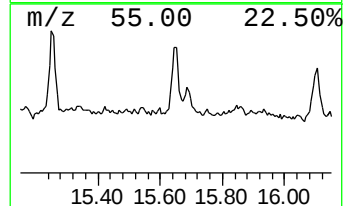
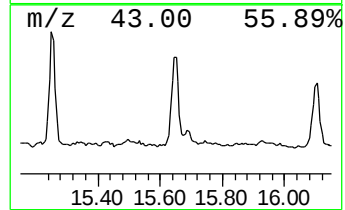
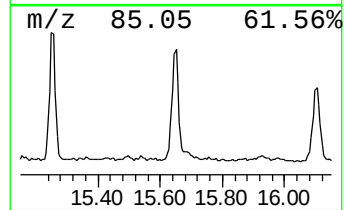
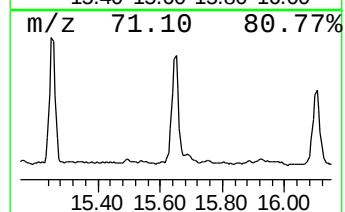
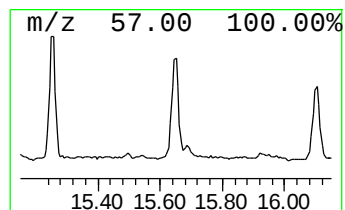
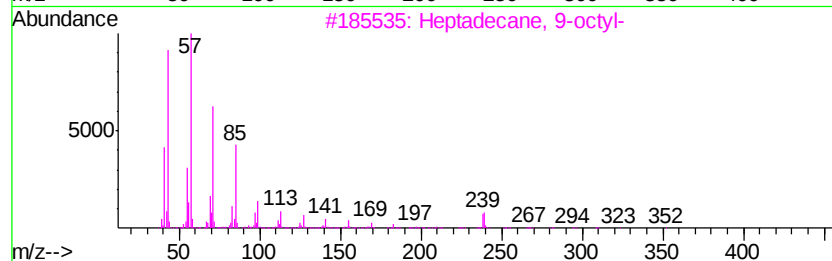
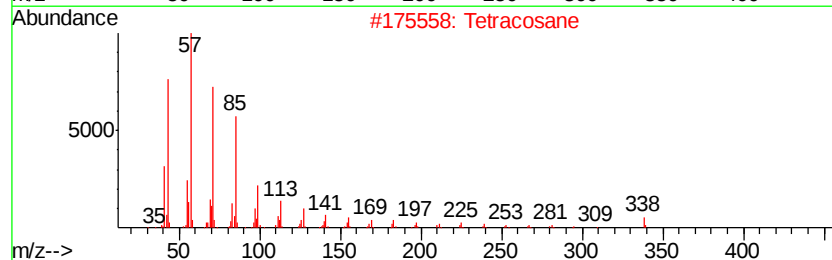
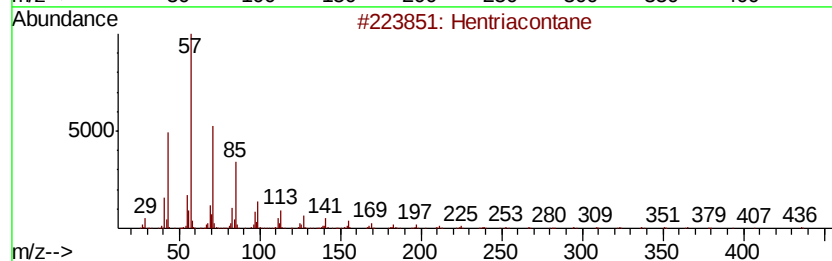
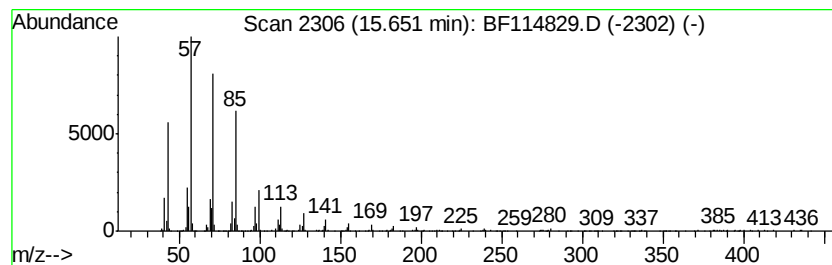
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Hentriacontane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.65 | 4.65 ng | 666048 | Perylene-d12     | 15.19 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------|-----|---------|--------------|------|
| 1    | 5  | Hentriacontane        | 437 | C31H64  | 000630-04-6  | 95   |
| 2    |    | Tetracosane           | 338 | C24H50  | 000646-31-1  | 94   |
| 3    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1  | 93   |
| 4    |    | Heneicosane           | 296 | C21H44  | 000629-94-7  | 91   |
| 5    |    | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\  
Data File : BF114829.D  
Acq On : 5 Jun 2019 20:21  
Operator : HP/JU  
Sample : K3183-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

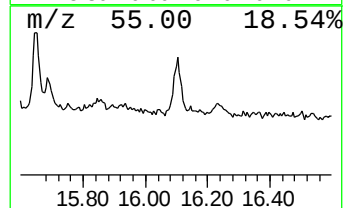
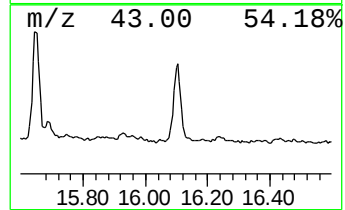
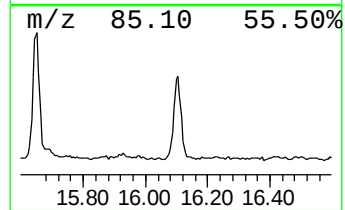
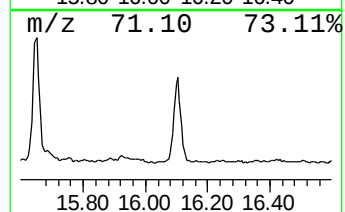
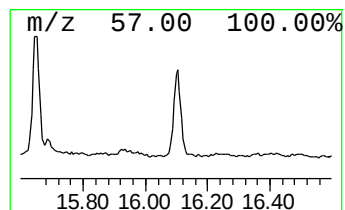
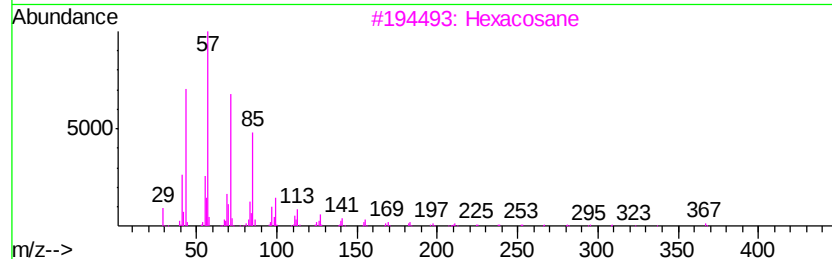
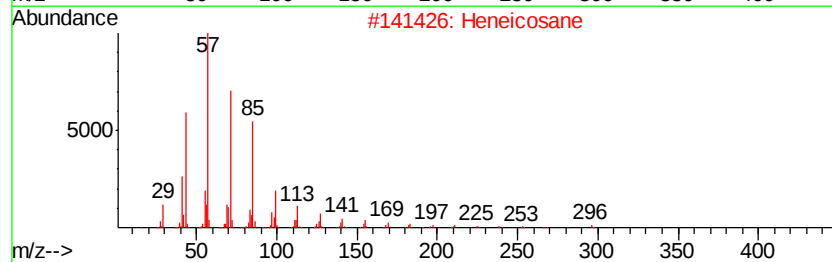
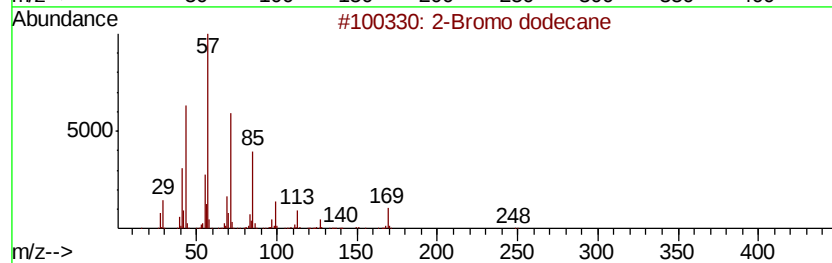
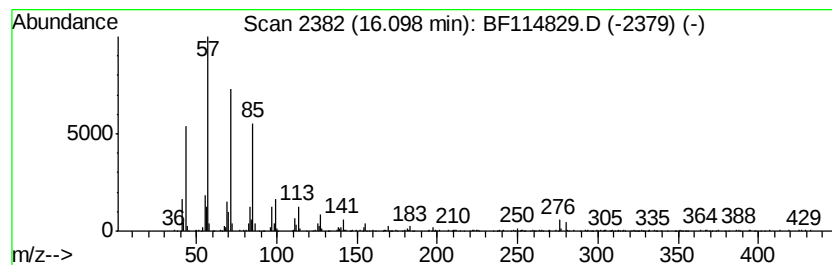
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 2-Bromo dodecane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.10 | 4.30 ng | 615343 | Perylene-d12     | 15.19 |

| Hit# | of | Tentative ID     | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 90   |
| 2    |    | Heneicosane      | 296 | C21H44   | 000629-94-7 | 90   |
| 3    |    | Hexacosane       | 366 | C26H54   | 000630-01-3 | 90   |
| 4    |    | Octacosane       | 394 | C28H58   | 000630-02-4 | 90   |
| 5    |    | Tetracosane      | 338 | C24H50   | 000646-31-1 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF060519\  
 Data File : BF114829.D  
 Acq On : 5 Jun 2019 20:21  
 Operator : HP/JU  
 Sample : K3183-05  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF060419.M  
 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 |
| unknown6.44          | 6.44  | 82.2    | ng    | 8591610  | 1                     | 6.67  | 2091310 | 20.0 |
| Phenanthrene, 2-m... | 11.70 | 2.4     | ng    | 433039   | 4                     | 11.17 | 3667830 | 20.0 |
| n-Hexadecanoic acid  | 11.72 | 5.8     | ng    | 1063040  | 4                     | 11.17 | 3667830 | 20.0 |
| 4H-Cyclopenta[def... | 11.78 | 3.4     | ng    | 630036   | 4                     | 11.17 | 3667830 | 20.0 |
| Octadecanoic acid    | 12.50 | 3.0     | ng    | 669123   | 5                     | 13.79 | 4497490 | 20.0 |
| 11H-Benzo[b]fluorene | 12.93 | 2.1     | ng    | 469287   | 5                     | 13.79 | 4497490 | 20.0 |
| 5-Eicosene, (E)-     | 13.66 | 3.0     | ng    | 669166   | 5                     | 13.79 | 4497490 | 20.0 |
| Hexacosane           | 14.30 | 2.2     | ng    | 485814   | 5                     | 13.79 | 4497490 | 20.0 |
| Eicosane             | 14.60 | 4.6     | ng    | 655175   | 6                     | 15.19 | 2861960 | 20.0 |
| Hexadecane           | 14.90 | 7.1     | ng    | 1020250  | 6                     | 15.19 | 2861960 | 20.0 |
| Hentriacontane       | 15.65 | 4.7     | ng    | 666048   | 6                     | 15.19 | 2861960 | 20.0 |
| 2-Bromo dodecane     | 16.10 | 4.3     | ng    | 615343   | 6                     | 15.19 | 2861960 | 20.0 |