

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF041919\  
 Data File : BF113863.D  
 Acq On : 19 Apr 2019 17:21  
 Operator : JU/SJ  
 Sample : K2201-05 2X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-041819-C

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-BF041819.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         | 2.193       | 15            | 18          | 26           | rVB      | 29629          | 43252         | 2.24%           | 0.167%        |
| 2         | 5.522       | 579           | 584         | 587          | rBV      | 1693886        | 1664149       | 86.30%          | 6.419%        |
| 3         | 6.522       | 749           | 754         | 757          | rBV      | 1979687        | 1721962       | 89.30%          | 6.642%        |
| 4         | 6.669       | 775           | 779         | 782          | rBV      | 2161966        | 1780121       | 92.31%          | 6.867%        |
| 5         | 6.904       | 815           | 819         | 822          | rBV      | 1311227        | 1106941       | 57.40%          | 4.270%        |
| 6         | 7.057       | 841           | 845         | 849          | rBV      | 1738785        | 1397780       | 72.49%          | 5.392%        |
| 7         | 7.457       | 908           | 913         | 916          | rBV      | 1081181        | 968054        | 50.20%          | 3.734%        |
| 8         | 8.180       | 1033          | 1036        | 1040         | rBV      | 1491320        | 1335582       | 69.26%          | 5.152%        |
| 9         | 9.257       | 1215          | 1219        | 1222         | rBV      | 2360525        | 1928363       | 100.00%         | 7.439%        |
| 10        | 9.345       | 1229          | 1234        | 1238         | rBV3     | 19729          | 25071         | 1.30%           | 0.097%        |
| 11        | 9.645       | 1283          | 1285        | 1291         | rVB      | 145635         | 132469        | 6.87%           | 0.511%        |
| 12        | 9.798       | 1308          | 1311        | 1317         | rBV      | 126854         | 106292        | 5.51%           | 0.410%        |
| 13        | 9.939       | 1331          | 1335        | 1339         | rBV2     | 1595052        | 1331150       | 69.03%          | 5.135%        |
| 14        | 10.139      | 1366          | 1369        | 1374         | rVB      | 24105          | 23364         | 1.21%           | 0.090%        |
| 15        | 10.486      | 1425          | 1428        | 1434         | rVB      | 47718          | 46436         | 2.41%           | 0.179%        |
| 16        | 10.721      | 1464          | 1468        | 1474         | rBV      | 1120597        | 1043254       | 54.10%          | 4.024%        |
| 17        | 10.851      | 1486          | 1490        | 1497         | rVB5     | 43200          | 64753         | 3.36%           | 0.250%        |
| 18        | 11.039      | 1518          | 1522        | 1524         | rBV3     | 17227          | 23995         | 1.24%           | 0.093%        |
| 19        | 11.298      | 1563          | 1566        | 1568         | rVV2     | 33277          | 26766         | 1.39%           | 0.103%        |
| 20        | 11.327      | 1568          | 1571        | 1575         | rVB2     | 33471          | 40217         | 2.09%           | 0.155%        |
| 21        | 11.427      | 1584          | 1588        | 1590         | rBV      | 1562206        | 1347941       | 69.90%          | 5.200%        |
| 22        | 11.451      | 1590          | 1592        | 1595         | rVV      | 313016         | 242957        | 12.60%          | 0.937%        |
| 23        | 11.498      | 1595          | 1600        | 1603         | rVB      | 133480         | 124813        | 6.47%           | 0.481%        |
| 24        | 11.651      | 1621          | 1626        | 1629         | rBV      | 19499          | 30981         | 1.61%           | 0.120%        |
| 25        | 11.721      | 1636          | 1638        | 1641         | rVB      | 38205          | 31343         | 1.63%           | 0.121%        |
| 26        | 11.933      | 1671          | 1674        | 1675         | rBV      | 59233          | 50748         | 2.63%           | 0.196%        |
| 27        | 11.957      | 1675          | 1678        | 1682         | rVV2     | 157691         | 177377        | 9.20%           | 0.684%        |
| 28        | 12.004      | 1684          | 1686        | 1689         | rVV      | 39559          | 37411         | 1.94%           | 0.144%        |
| 29        | 12.045      | 1689          | 1693        | 1695         | rVV2     | 123636         | 133590        | 6.93%           | 0.515%        |
| 30        | 12.068      | 1695          | 1697        | 1701         | rVB      | 51409          | 42969         | 2.23%           | 0.166%        |
| 31        | 12.139      | 1706          | 1709        | 1711         | rBV2     | 38249          | 32521         | 1.69%           | 0.125%        |
| 32        | 12.233      | 1722          | 1725        | 1726         | rBV      | 37850          | 33301         | 1.73%           | 0.128%        |
| 33        | 12.251      | 1726          | 1728        | 1732         | rVB2     | 24954          | 30418         | 1.58%           | 0.117%        |
| 34        | 12.415      | 1754          | 1756        | 1759         | rBV2     | 27720          | 34247         | 1.78%           | 0.132%        |

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Sample : K2201-05 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-041819-C

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-BF041819.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.498 | 1766 | 1770 | 1772 | rBV  | 66276   | 70876   | 3.68%  | 0.273% |
| 36 | 12.527 | 1772 | 1775 | 1776 | rVV2 | 102624  | 100426  | 5.21%  | 0.387% |
| 37 | 12.545 | 1776 | 1778 | 1781 | rVV4 | 155131  | 160186  | 8.31%  | 0.618% |
| 38 | 12.580 | 1781 | 1784 | 1789 | rVB2 | 53034   | 64690   | 3.35%  | 0.250% |
| 39 | 12.663 | 1795 | 1798 | 1801 | rBV  | 690416  | 601921  | 31.21% | 2.322% |
| 40 | 12.762 | 1812 | 1815 | 1818 | rBV  | 88168   | 88954   | 4.61%  | 0.343% |
| 41 | 12.821 | 1823 | 1825 | 1832 | rBV4 | 29252   | 58972   | 3.06%  | 0.227% |
| 42 | 12.904 | 1833 | 1839 | 1842 | rBV  | 671201  | 675310  | 35.02% | 2.605% |
| 43 | 12.933 | 1842 | 1844 | 1846 | rVB2 | 54993   | 46310   | 2.40%  | 0.179% |
| 44 | 13.057 | 1861 | 1865 | 1869 | rVB  | 2007944 | 1878595 | 97.42% | 7.247% |
| 45 | 13.262 | 1897 | 1900 | 1903 | rVB  | 124656  | 126948  | 6.58%  | 0.490% |
| 46 | 13.327 | 1908 | 1911 | 1915 | rVB2 | 127102  | 147478  | 7.65%  | 0.569% |
| 47 | 13.374 | 1916 | 1919 | 1922 | rBV2 | 90475   | 97123   | 5.04%  | 0.375% |
| 48 | 13.474 | 1934 | 1936 | 1939 | rVB  | 51784   | 50556   | 2.62%  | 0.195% |
| 49 | 13.509 | 1940 | 1942 | 1946 | rBV  | 56258   | 62517   | 3.24%  | 0.241% |
| 50 | 13.715 | 1974 | 1977 | 1984 | rVB2 | 129356  | 141427  | 7.33%  | 0.546% |
| 51 | 14.104 | 2040 | 2043 | 2047 | rVB  | 122075  | 112707  | 5.84%  | 0.435% |
| 52 | 14.257 | 2064 | 2069 | 2073 | rBV2 | 1361594 | 1841757 | 95.51% | 7.105% |
| 53 | 14.286 | 2073 | 2074 | 2078 | rVB  | 287978  | 219035  | 11.36% | 0.845% |
| 54 | 14.492 | 2107 | 2109 | 2112 | rVB2 | 106354  | 101162  | 5.25%  | 0.390% |
| 55 | 14.886 | 2174 | 2176 | 2179 | rVB3 | 105964  | 103540  | 5.37%  | 0.399% |
| 56 | 15.274 | 2240 | 2242 | 2246 | rVB2 | 119634  | 134536  | 6.98%  | 0.519% |
| 57 | 15.521 | 2281 | 2284 | 2288 | rBV  | 271196  | 419916  | 21.78% | 1.620% |
| 58 | 15.845 | 2337 | 2339 | 2347 | rVB  | 186812  | 250031  | 12.97% | 0.964% |
| 59 | 15.915 | 2348 | 2351 | 2355 | rVB  | 228560  | 258688  | 13.41% | 0.998% |
| 60 | 15.986 | 2358 | 2363 | 2366 | rBV  | 756817  | 949247  | 49.23% | 3.662% |

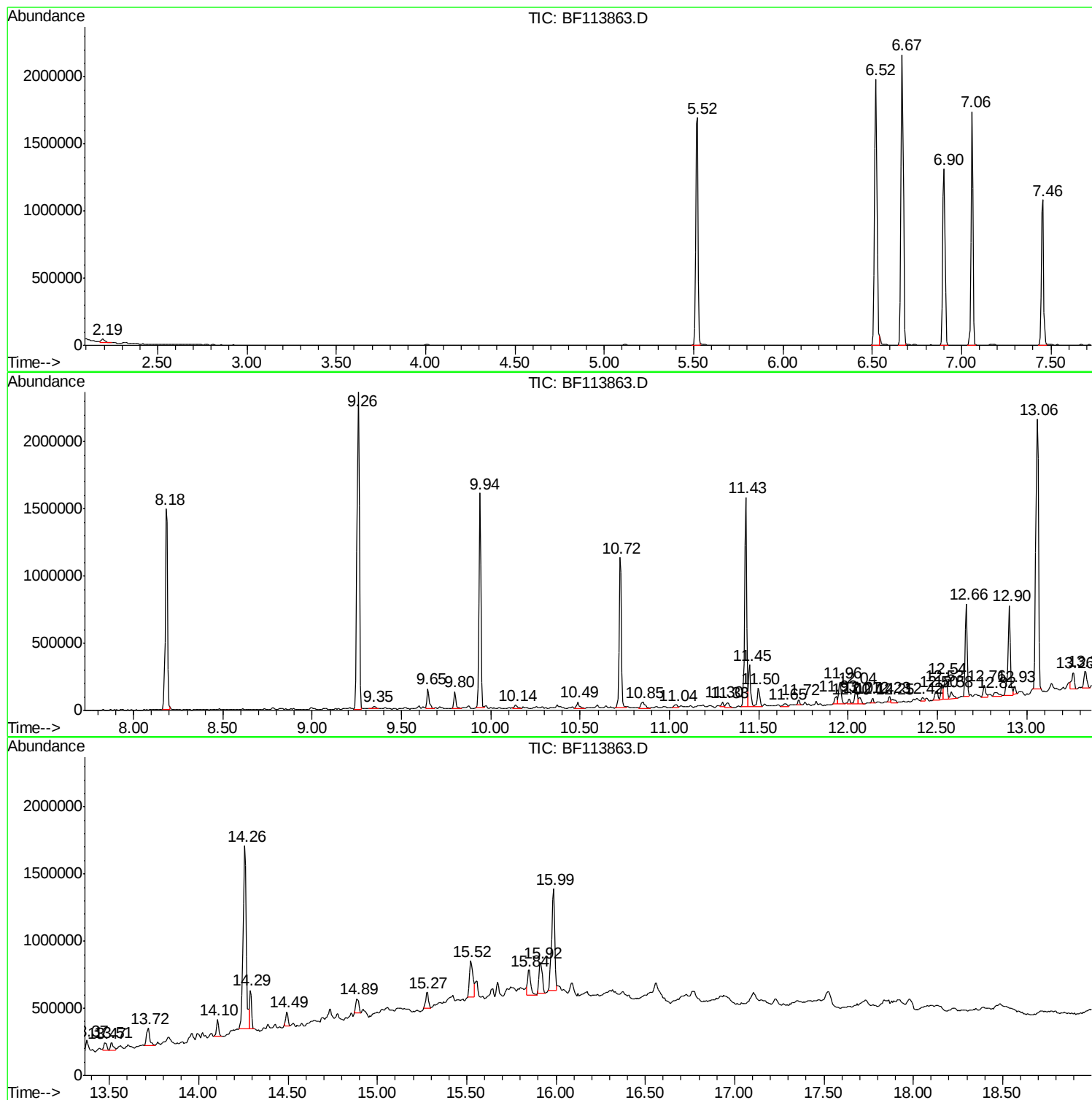
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Sample : K2201-05 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-041819-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF041819.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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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-041819-C

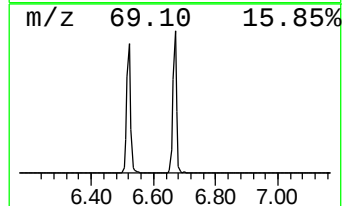
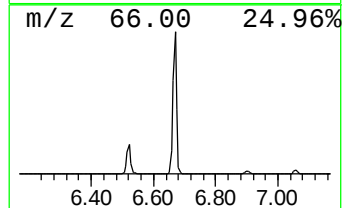
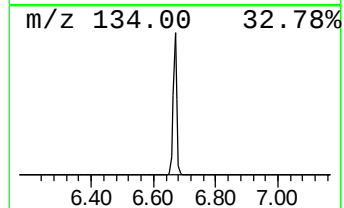
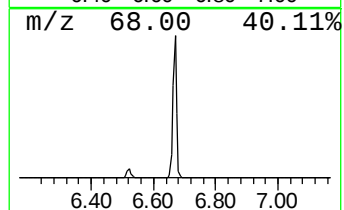
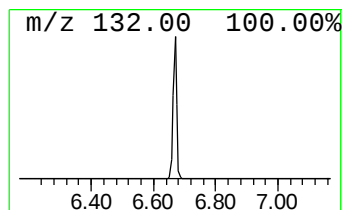
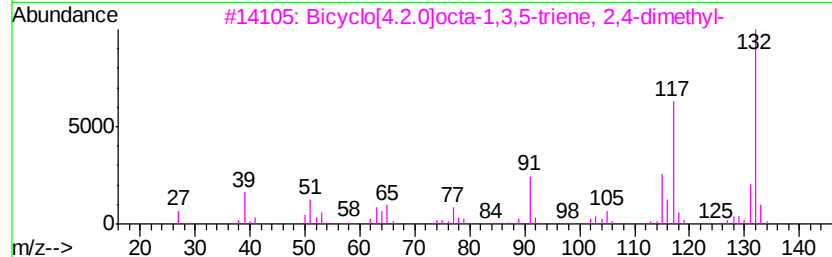
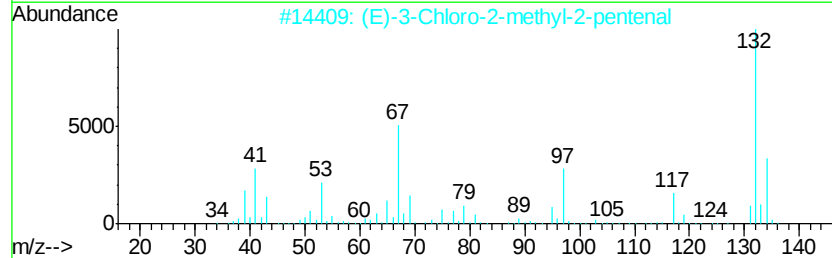
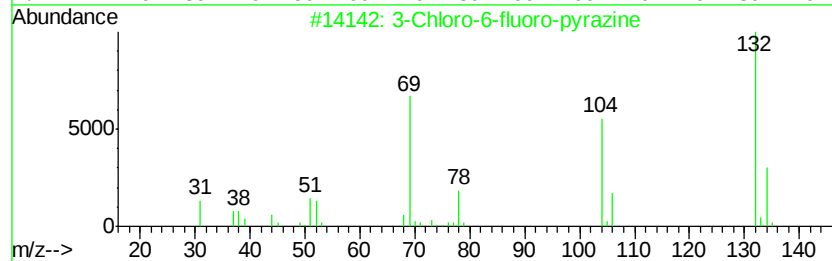
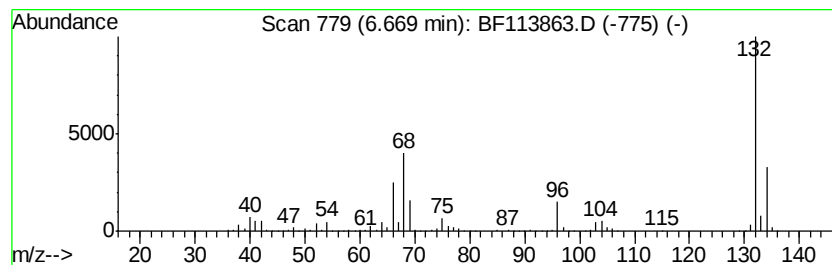
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF041819.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.67 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.67 | 32.16 ng | 1780120 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 4    |    | 4-Chloro-6-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 5    |    | 4-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-60-2  | 9    |



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ALS Vial : 15 Sample Multiplier: 1

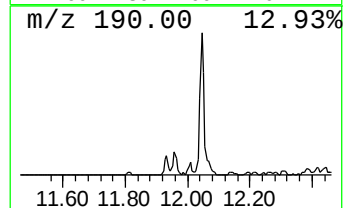
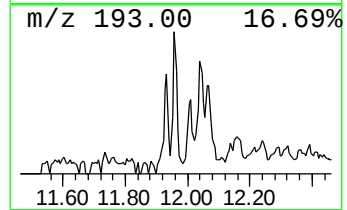
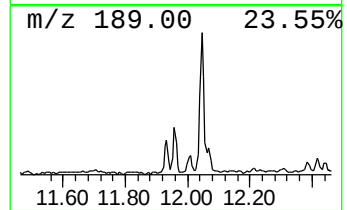
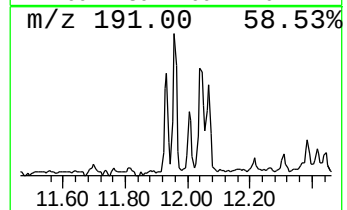
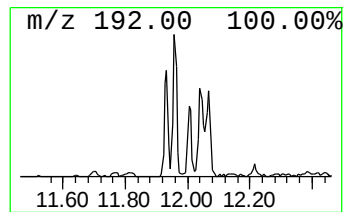
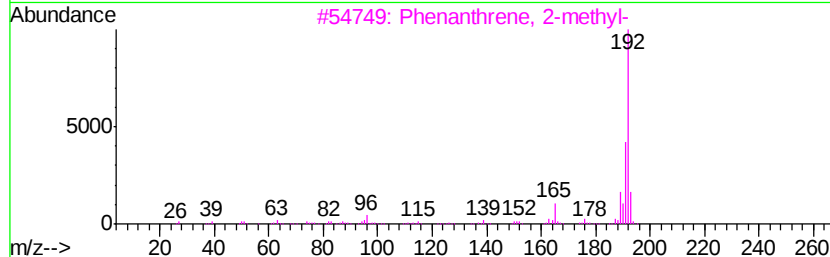
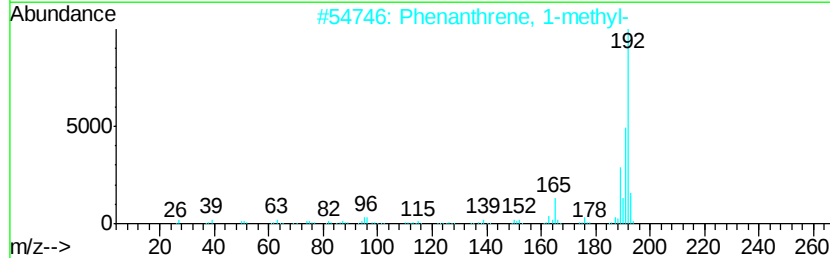
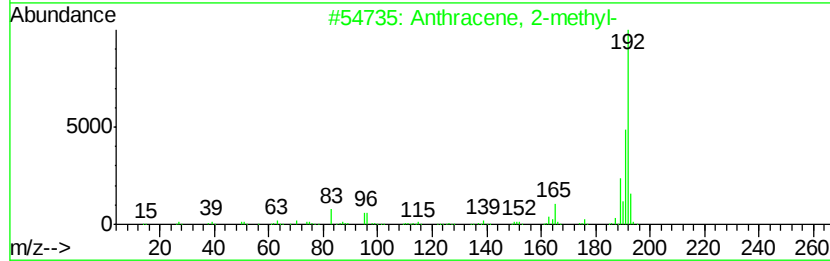
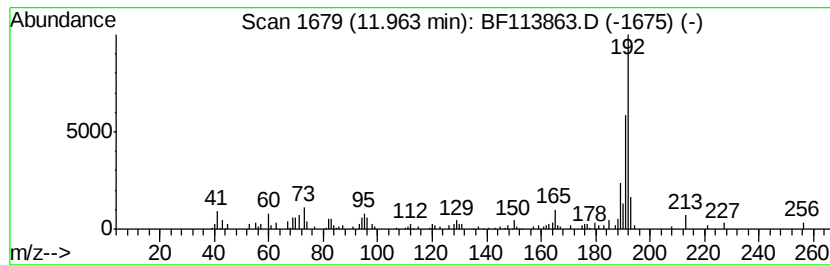
Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-041819-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF041819.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Anthracene, 2-methyl- Concentration Rank 5

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 11.96     | 2.63 ng                 | 177377 | Phenanthrene-d10 | 11.43       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Anthracene, 2-methyl-   | 192    | C15H12           | 000613-12-7 | 96   |
| 2         | Phenanthrene, 1-methyl- | 192    | C15H12           | 000832-69-9 | 96   |
| 3         | Phenanthrene, 2-methyl- | 192    | C15H12           | 002531-84-2 | 93   |
| 4         | Anthracene, 1-methyl-   | 192    | C15H12           | 000610-48-0 | 93   |
| 5         | 1H-Indene, 2-phenyl-    | 192    | C15H12           | 004505-48-0 | 92   |



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Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF041819.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

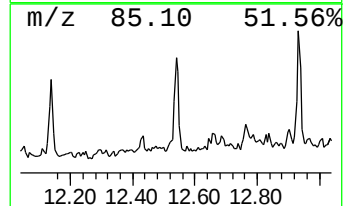
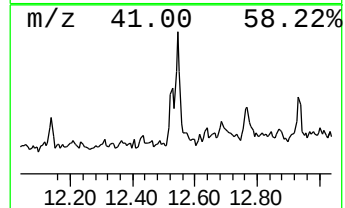
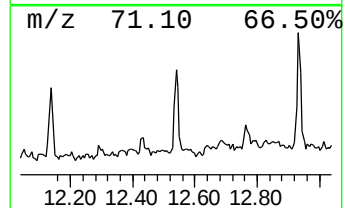
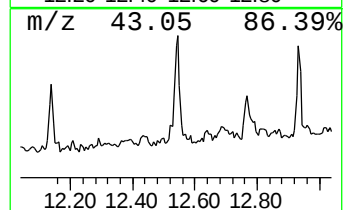
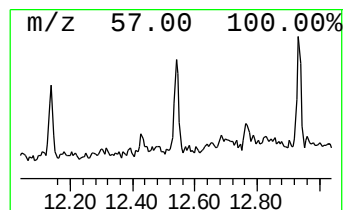
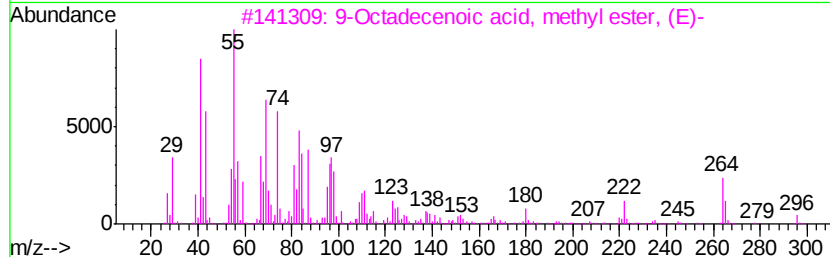
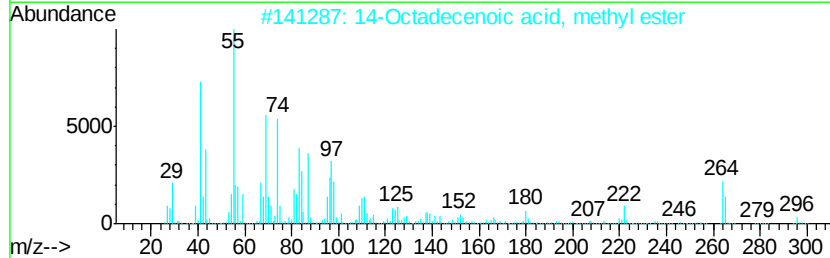
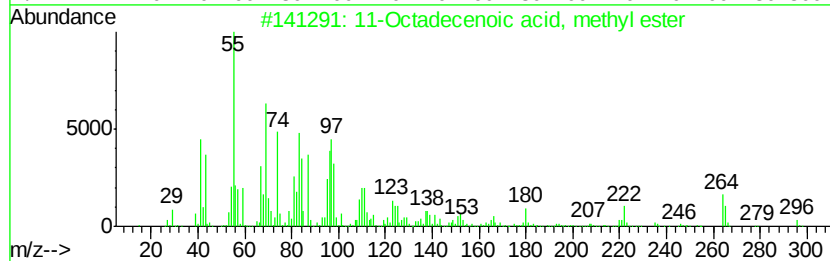
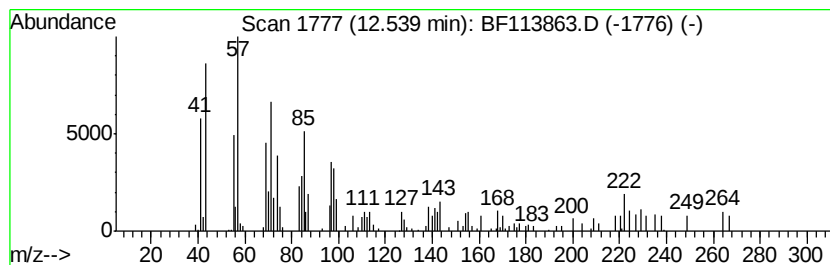
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 11-Octadecenoic acid, methyl... Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.54 | 2.38 ng | 160186 | Phenanthrene-d10 | 11.43 |

| Hit# | of | Tentative ID                          | MW  | MolForm  | CAS#         | Qual |
|------|----|---------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 11-Octadecenoic acid, methyl ester    | 296 | C19H36O2 | 052380-33-3  | 94   |
| 2    |    | 14-Octadecenoic acid, methyl ester    | 296 | C19H36O2 | 056554-48-4  | 93   |
| 3    |    | 9-Octadecenoic acid, methyl ester...  | 296 | C19H36O2 | 001937-62-8  | 93   |
| 4    |    | 10-Octadecenoic acid, methyl ester    | 296 | C19H36O2 | 013481-95-3  | 93   |
| 5    |    | trans-13-Octadecenoic acid, methyl... | 296 | C19H36O2 | 1000333-61-3 | 93   |



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PL-01-041819-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF041819.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

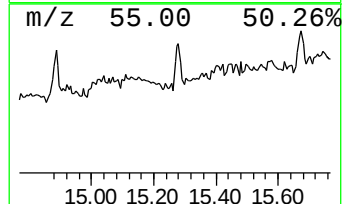
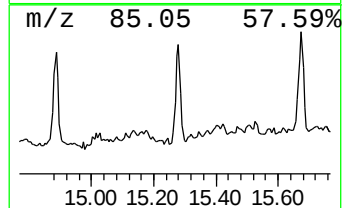
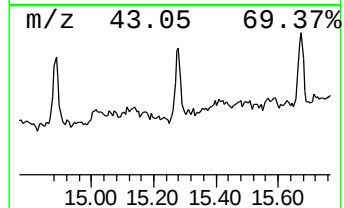
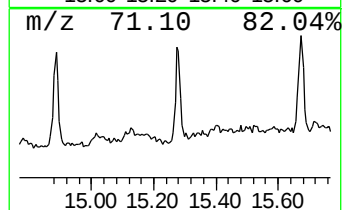
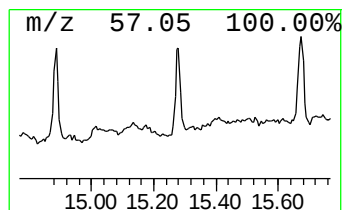
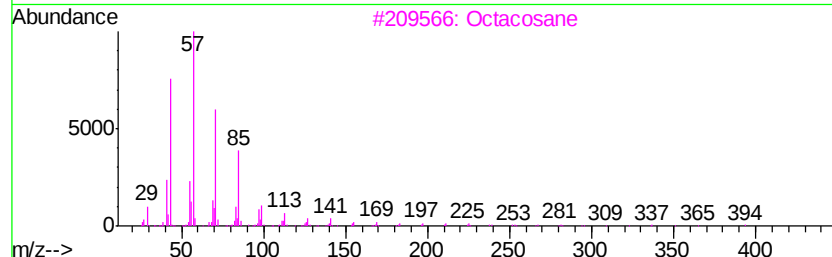
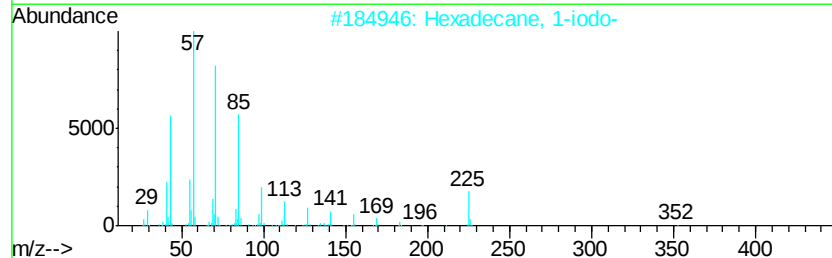
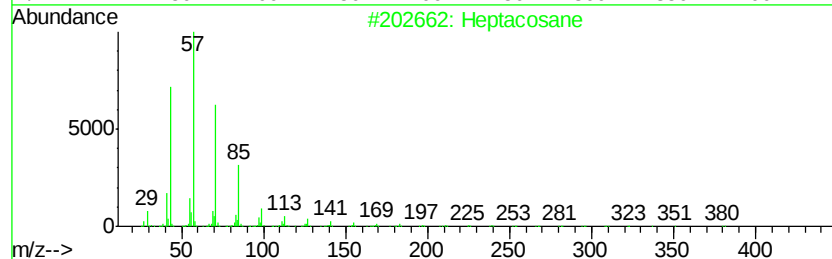
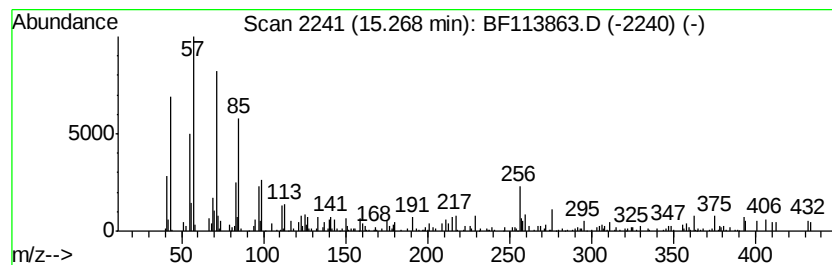
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Heptacosane Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.27 | 2.83 ng | 134536 | Perylene-d12     | 15.99 |

| Hit# of | 5                   | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---------------------|--------------|-----|---------|-------------|------|
| 1       | Heptacosane         |              | 380 | C27H56  | 000593-49-7 | 93   |
| 2       | Hexadecane, 1-iodo- |              | 352 | C16H33I | 000544-77-4 | 91   |
| 3       | Octacosane          |              | 394 | C28H58  | 000630-02-4 | 87   |
| 4       | Dodecane, 2-methyl- |              | 184 | C13H28  | 001560-97-0 | 87   |
| 5       | Hexacosane          |              | 366 | C26H54  | 000630-01-3 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF041919\  
Data File : BF113863.D  
Acq On : 19 Apr 2019 17:21  
Operator : JU/SJ  
Sample : K2201-05 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-041819-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF041819.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

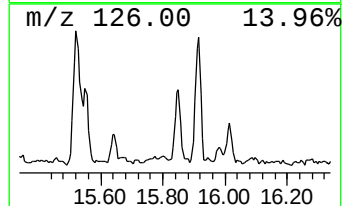
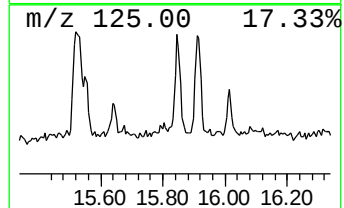
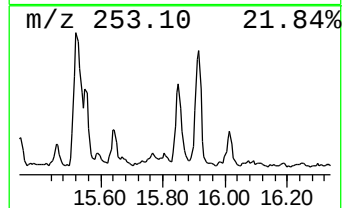
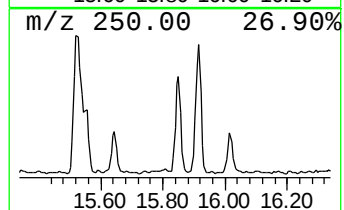
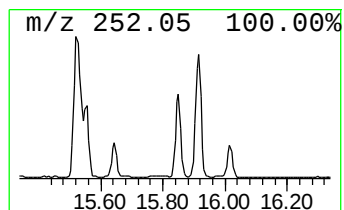
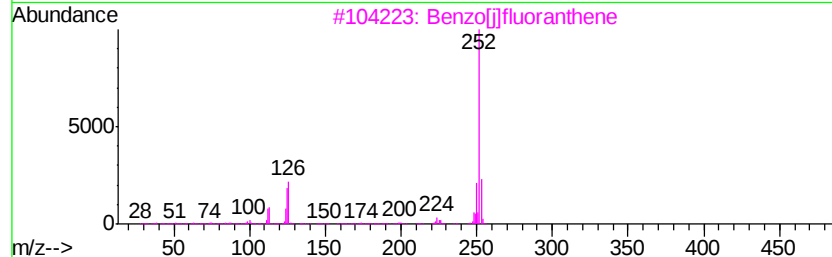
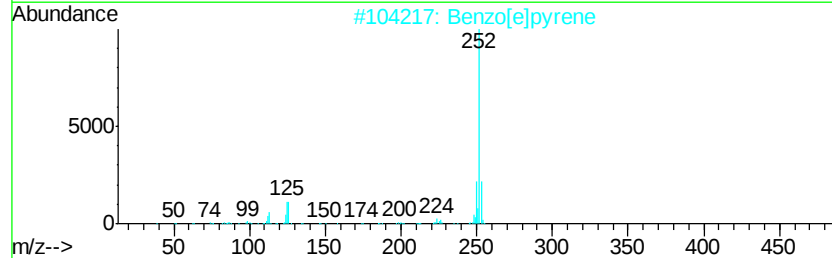
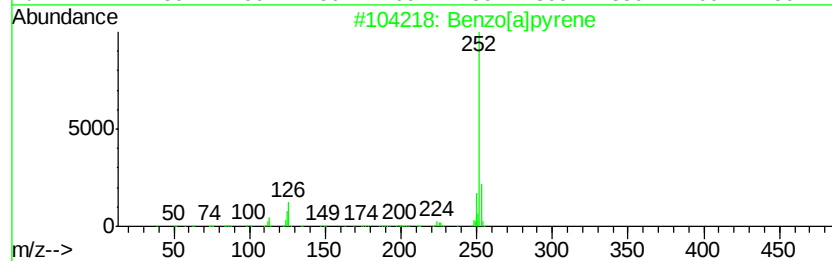
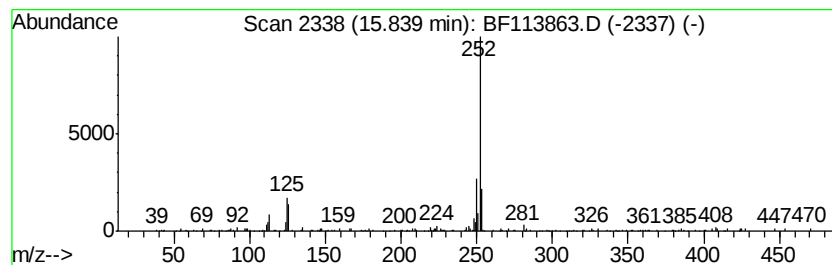
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Benzo[e]pyrene Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.84 | 5.27 ng | 250031 | Perylene-d12     | 15.99 |

| Hit# of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------|-----|---------|-------------|------|
| 1       |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 96   |
| 2       |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 93   |
| 3       |   | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 90   |
| 4       |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 90   |
| 5       |   | Perylene             | 252 | C20H12  | 000198-55-0 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF041919\  
Data File : BF113863.D  
Acq On : 19 Apr 2019 17:21  
Operator : JU/SJ  
Sample : K2201-05 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-041819-C

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF041819.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 |
| unknown6.67          | 6.67  | 32.2    | ng    | 1780120  | 1                     | 6.90  | 1106940 | 20.0 |
| Anthracene, 2-met... | 11.96 | 2.6     | ng    | 177377   | 4                     | 11.43 | 1347940 | 20.0 |
| 11-Octadecenoic a... | 12.54 | 2.4     | ng    | 160186   | 4                     | 11.43 | 1347940 | 20.0 |
| Heptacosane          | 15.27 | 2.8     | ng    | 134536   | 6                     | 15.99 | 949247  | 20.0 |
| Benzo[e]pyrene       | 15.84 | 5.3     | ng    | 250031   | 6                     | 15.99 | 949247  | 20.0 |