

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120817\  
 Data File : BF101248.D  
 Acq On : 8 Dec 2017 20:52  
 Operator : SJ/JU  
 Sample : I6677-03 5X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-03-120717-B

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:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.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         | 5.034       | 498           | 501         | 508          | rBB      | 8454           | 9607          | 2.51%           | 0.208%        |
| 2         | 5.434       | 566           | 569         | 576          | rBV      | 168058         | 181618        | 47.46%          | 3.931%        |
| 3         | 6.451       | 739           | 742         | 756          | rVB      | 196165         | 193115        | 50.46%          | 4.180%        |
| 4         | 6.592       | 763           | 766         | 770          | rBV      | 260169         | 202801        | 53.00%          | 4.390%        |
| 5         | 6.822       | 802           | 805         | 812          | rBB      | 298247         | 252639        | 66.02%          | 5.469%        |
| 6         | 6.981       | 828           | 832         | 839          | rBB      | 181342         | 152536        | 39.86%          | 3.302%        |
| 7         | 7.386       | 898           | 901         | 911          | rBB      | 135532         | 109901        | 28.72%          | 2.379%        |
| 8         | 8.110       | 1020          | 1024        | 1027         | rBV      | 359936         | 326433        | 85.30%          | 7.066%        |
| 9         | 8.922       | 1159          | 1162        | 1165         | rBB      | 5858           | 4956          | 1.30%           | 0.107%        |
| 10        | 9.180       | 1203          | 1206        | 1209         | rBV      | 286384         | 207287        | 54.17%          | 4.487%        |
| 11        | 9.522       | 1260          | 1264        | 1267         | rBV      | 7090           | 6287          | 1.64%           | 0.136%        |
| 12        | 9.575       | 1271          | 1273        | 1276         | rBV      | 12437          | 9514          | 2.49%           | 0.206%        |
| 13        | 9.727       | 1296          | 1299        | 1302         | rBB      | 7824           | 6204          | 1.62%           | 0.134%        |
| 14        | 9.786       | 1306          | 1309        | 1313         | rBB      | 10997          | 9261          | 2.42%           | 0.200%        |
| 15        | 9.863       | 1318          | 1322        | 1326         | rVV2     | 384209         | 327217        | 85.51%          | 7.083%        |
| 16        | 9.898       | 1326          | 1328        | 1330         | rVB      | 16985          | 12622         | 3.30%           | 0.273%        |
| 17        | 10.069      | 1354          | 1357        | 1360         | rBB2     | 8183           | 6677          | 1.74%           | 0.145%        |
| 18        | 10.286      | 1391          | 1394        | 1396         | rVB      | 10861          | 8812          | 2.30%           | 0.191%        |
| 19        | 10.416      | 1412          | 1416        | 1420         | rBB      | 18711          | 18343         | 4.79%           | 0.397%        |
| 20        | 10.498      | 1428          | 1430        | 1433         | rVB      | 4908           | 4295          | 1.12%           | 0.093%        |
| 21        | 10.651      | 1454          | 1456        | 1462         | rVB      | 105297         | 100057        | 26.15%          | 2.166%        |
| 22        | 10.757      | 1471          | 1474        | 1481         | rBV      | 9578           | 11175         | 2.92%           | 0.242%        |
| 23        | 10.963      | 1505          | 1509        | 1511         | rBV      | 4598           | 4752          | 1.24%           | 0.103%        |
| 24        | 11.204      | 1546          | 1550        | 1553         | rBV2     | 6179           | 6364          | 1.66%           | 0.138%        |
| 25        | 11.251      | 1553          | 1558        | 1561         | rVV2     | 6894           | 8249          | 2.16%           | 0.179%        |
| 26        | 11.357      | 1572          | 1576        | 1578         | rBV      | 331990         | 296850        | 77.57%          | 6.426%        |
| 27        | 11.374      | 1578          | 1579        | 1583         | rVB      | 152501         | 119729        | 31.29%          | 2.592%        |
| 28        | 11.427      | 1585          | 1588        | 1592         | rVB      | 31151          | 27152         | 7.10%           | 0.588%        |
| 29        | 11.586      | 1610          | 1615        | 1620         | rBV      | 7805           | 8826          | 2.31%           | 0.191%        |
| 30        | 11.633      | 1620          | 1623        | 1628         | rVB2     | 3087           | 4686          | 1.22%           | 0.101%        |
| 31        | 11.733      | 1638          | 1640        | 1643         | rVB2     | 5993           | 4008          | 1.05%           | 0.087%        |
| 32        | 11.857      | 1655          | 1661        | 1663         | rBV      | 17808          | 17400         | 4.55%           | 0.377%        |
| 33        | 11.886      | 1663          | 1666        | 1669         | rVV      | 21458          | 18886         | 4.94%           | 0.409%        |
| 34        | 11.933      | 1672          | 1674        | 1677         | rVV2     | 9519           | 8163          | 2.13%           | 0.177%        |

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 ClientSampleId :  
 OR-03-120717-B

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:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |         |        |
|----|--------|------|------|------|------|--------|--------|---------|--------|
| 35 | 11.968 | 1677 | 1680 | 1682 | rVV2 | 30358  | 30597  | 8.00%   | 0.662% |
| 36 | 11.992 | 1682 | 1684 | 1687 | rVB  | 11760  | 9948   | 2.60%   | 0.215% |
| 37 | 12.151 | 1708 | 1711 | 1715 | rBV  | 11735  | 9700   | 2.53%   | 0.210% |
| 38 | 12.186 | 1715 | 1717 | 1719 | rBV  | 8303   | 6265   | 1.64%   | 0.136% |
| 39 | 12.421 | 1751 | 1757 | 1759 | rBV3 | 19171  | 28875  | 7.55%   | 0.625% |
| 40 | 12.445 | 1759 | 1761 | 1763 | rVV3 | 15844  | 14170  | 3.70%   | 0.307% |
| 41 | 12.498 | 1767 | 1770 | 1773 | rBV3 | 8029   | 9909   | 2.59%   | 0.214% |
| 42 | 12.568 | 1779 | 1782 | 1786 | rBV  | 221494 | 187089 | 48.89%  | 4.050% |
| 43 | 12.668 | 1796 | 1799 | 1801 | rVB  | 5018   | 4867   | 1.27%   | 0.105% |
| 44 | 12.721 | 1805 | 1808 | 1811 | rBV  | 8914   | 7623   | 1.99%   | 0.165% |
| 45 | 12.798 | 1816 | 1821 | 1827 | rVV  | 175032 | 181899 | 47.53%  | 3.937% |
| 46 | 12.851 | 1827 | 1830 | 1834 | rVB2 | 6806   | 6776   | 1.77%   | 0.147% |
| 47 | 12.933 | 1841 | 1844 | 1847 | rVB  | 177755 | 153218 | 40.04%  | 3.317% |
| 48 | 12.963 | 1847 | 1849 | 1852 | rVB3 | 5442   | 4674   | 1.22%   | 0.101% |
| 49 | 13.021 | 1855 | 1859 | 1862 | rVB3 | 11037  | 17533  | 4.58%   | 0.380% |
| 50 | 13.127 | 1870 | 1877 | 1880 | rBV  | 20493  | 27172  | 7.10%   | 0.588% |
| 51 | 13.192 | 1886 | 1888 | 1892 | rBV  | 15761  | 13782  | 3.60%   | 0.298% |
| 52 | 13.233 | 1892 | 1895 | 1899 | rBV2 | 12255  | 15818  | 4.13%   | 0.342% |
| 53 | 13.327 | 1908 | 1911 | 1914 | rBV  | 10441  | 9694   | 2.53%   | 0.210% |
| 54 | 13.357 | 1914 | 1916 | 1923 | rVB4 | 12153  | 14147  | 3.70%   | 0.306% |
| 55 | 13.510 | 1938 | 1942 | 1943 | rVV4 | 4430   | 5499   | 1.44%   | 0.119% |
| 56 | 13.551 | 1947 | 1949 | 1952 | rVB4 | 5486   | 5854   | 1.53%   | 0.127% |
| 57 | 13.615 | 1958 | 1960 | 1962 | rBV3 | 4340   | 5009   | 1.31%   | 0.108% |
| 58 | 13.639 | 1962 | 1964 | 1968 | rVB  | 9893   | 9837   | 2.57%   | 0.213% |
| 59 | 13.692 | 1972 | 1973 | 1978 | rBV4 | 3665   | 5502   | 1.44%   | 0.119% |
| 60 | 13.751 | 1980 | 1983 | 1985 | rBV  | 16162  | 14834  | 3.88%   | 0.321% |
| 61 | 13.774 | 1985 | 1987 | 1990 | rBV3 | 7169   | 5943   | 1.55%   | 0.129% |
| 62 | 13.804 | 1990 | 1992 | 1993 | rBV  | 9081   | 7358   | 1.92%   | 0.159% |
| 63 | 13.827 | 1993 | 1996 | 1998 | rVB3 | 7073   | 8274   | 2.16%   | 0.179% |
| 64 | 13.851 | 1998 | 2000 | 2003 | rVB  | 10308  | 6607   | 1.73%   | 0.143% |
| 65 | 13.880 | 2003 | 2005 | 2008 | rVB4 | 9991   | 7989   | 2.09%   | 0.173% |
| 66 | 13.921 | 2008 | 2012 | 2015 | rBV5 | 11238  | 18867  | 4.93%   | 0.408% |
| 67 | 14.004 | 2018 | 2026 | 2028 | rBV2 | 334144 | 382677 | 100.00% | 8.284% |
| 68 | 14.027 | 2028 | 2030 | 2036 | rVB  | 73420  | 62449  | 16.32%  | 1.352% |
| 69 | 14.086 | 2038 | 2040 | 2041 | rBV2 | 9837   | 7580   | 1.98%   | 0.164% |
| 70 | 14.110 | 2042 | 2044 | 2045 | rBV  | 10292  | 6044   | 1.58%   | 0.131% |
| 71 | 14.198 | 2057 | 2059 | 2061 | rBV2 | 7301   | 8271   | 2.16%   | 0.179% |

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 ClientSampleId :  
 OR-03-120717-B

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:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 14.233 | 2063 | 2065 | 2067 | rVB3 | 10168  | 6959   | 1.82%  | 0.151% |
| 73 | 14.257 | 2067 | 2069 | 2072 | rBV4 | 7410   | 9973   | 2.61%  | 0.216% |
| 74 | 14.533 | 2114 | 2116 | 2119 | rBV4 | 10303  | 8981   | 2.35%  | 0.194% |
| 75 | 15.045 | 2199 | 2203 | 2213 | rVB  | 62373  | 123902 | 32.38% | 2.682% |
|    |        |      |      |      |      |        |        |        |        |
| 76 | 15.345 | 2251 | 2254 | 2260 | rVB  | 35167  | 41726  | 10.90% | 0.903% |
| 77 | 15.409 | 2262 | 2265 | 2270 | rVB  | 47325  | 68216  | 17.83% | 1.477% |
| 78 | 15.474 | 2271 | 2276 | 2280 | rBV  | 186616 | 234657 | 61.32% | 5.080% |
| 79 | 16.380 | 2428 | 2430 | 2431 | rBV2 | 10570  | 6929   | 1.81%  | 0.150% |
| 80 | 16.951 | 2523 | 2527 | 2534 | rVB4 | 17896  | 41457  | 10.83% | 0.897% |
|    |        |      |      |      |      |        |        |        |        |
| 81 | 17.215 | 2571 | 2572 | 2574 | rBV2 | 8530   | 5463   | 1.43%  | 0.118% |
| 82 | 17.403 | 2597 | 2604 | 2609 | rBV3 | 15886  | 36789  | 9.61%  | 0.796% |
| 83 | 17.515 | 2621 | 2623 | 2625 | rBV2 | 6417   | 6709   | 1.75%  | 0.145% |
| 84 | 17.727 | 2657 | 2659 | 2661 | rBV3 | 6090   | 5058   | 1.32%  | 0.109% |
| 85 | 17.898 | 2686 | 2688 | 2689 | rBV2 | 5126   | 3960   | 1.03%  | 0.086% |
|    |        |      |      |      |      |        |        |        |        |
| 86 | 18.109 | 2722 | 2724 | 2726 | rBV3 | 5897   | 4476   | 1.17%  | 0.097% |
| 87 | 18.439 | 2777 | 2780 | 2781 | rBV3 | 5505   | 5652   | 1.48%  | 0.122% |

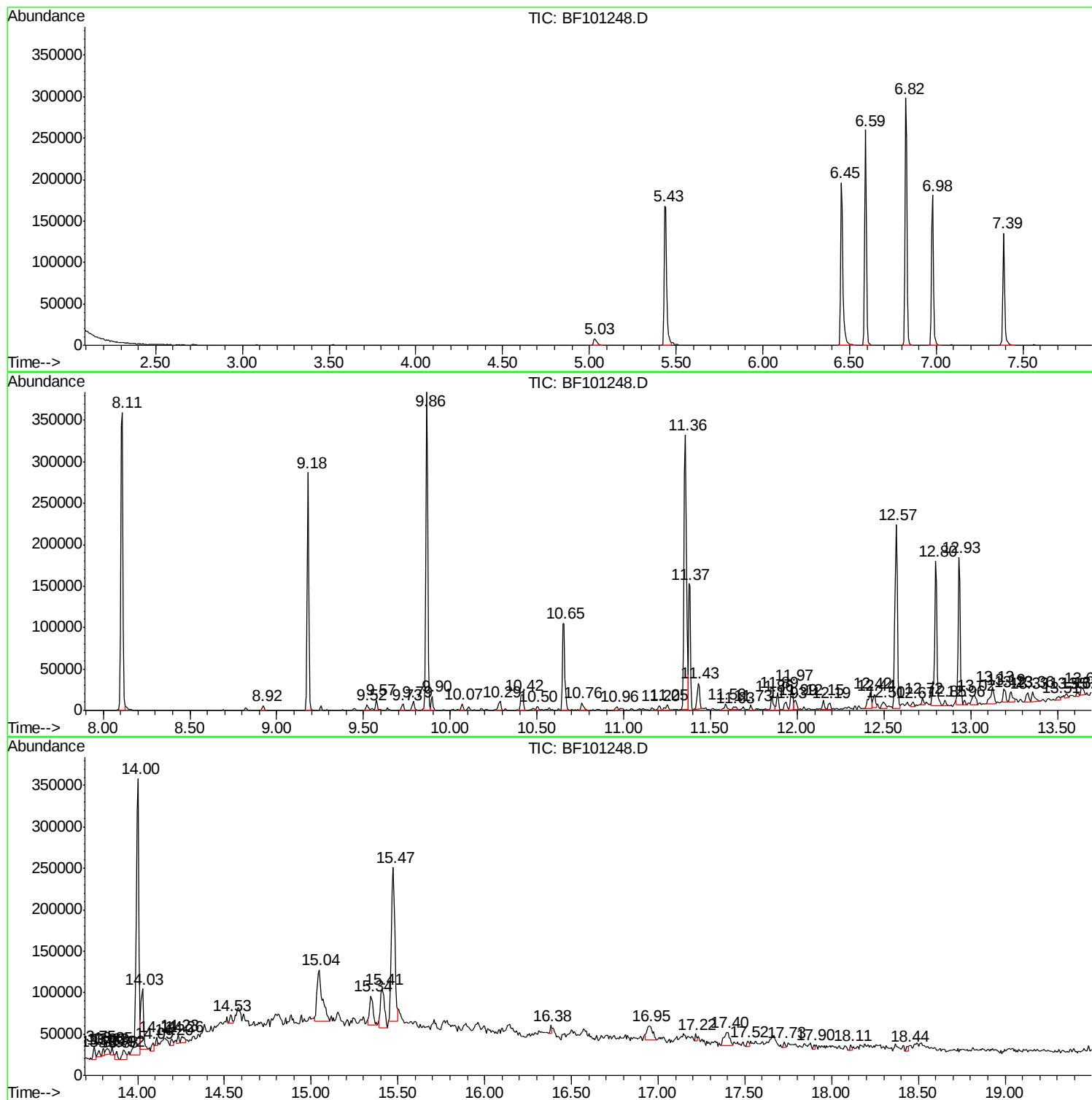
Sum of corrected areas: 4619679

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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-120717-B

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120817\  
Data File : BF101248.D  
Acq On : 8 Dec 2017 20:52  
Operator : SJ/JU  
Sample : I6677-03 5X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-03-120717-B

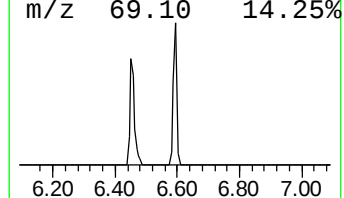
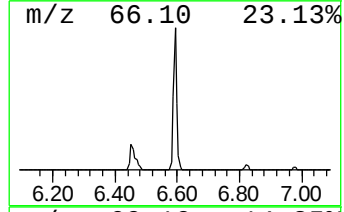
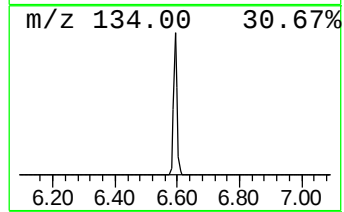
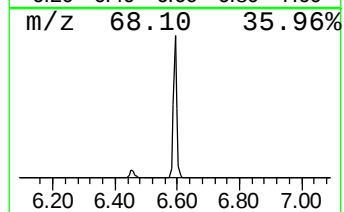
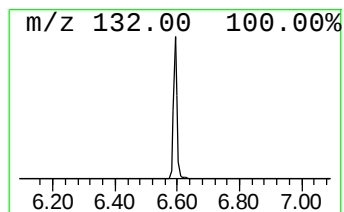
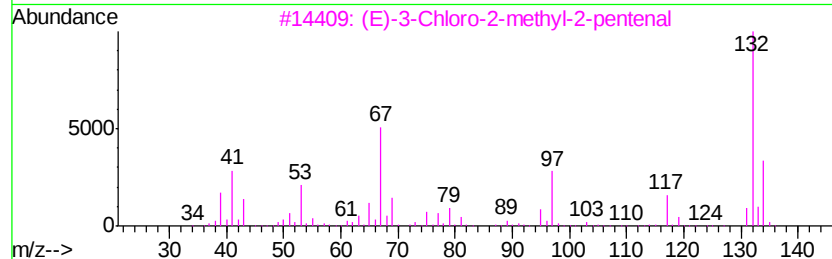
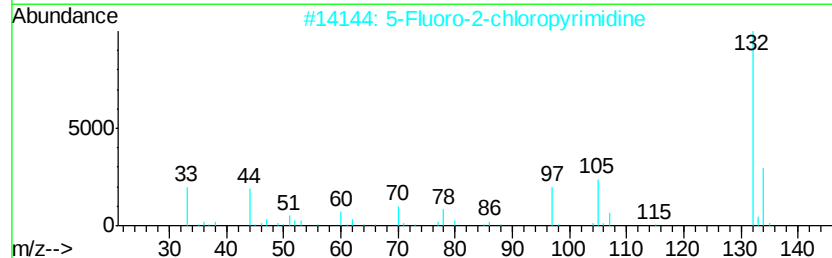
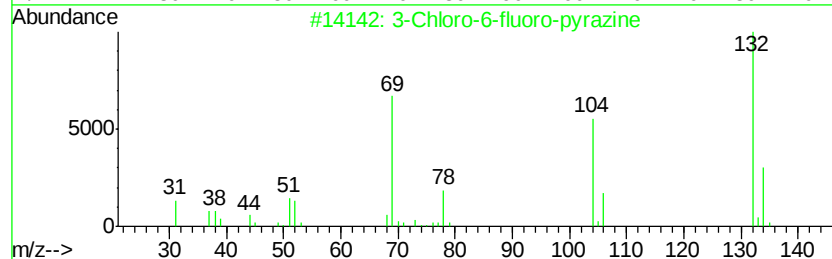
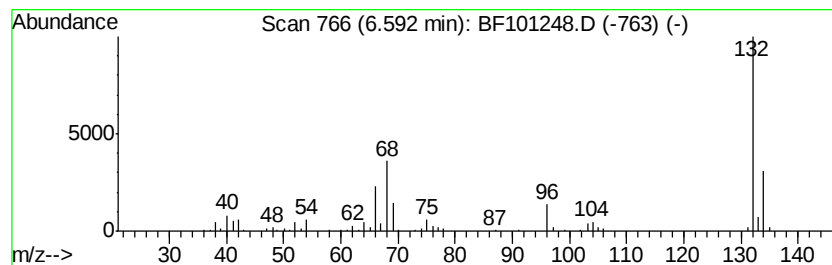
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.59 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.59 | 16.05 ng | 202801 | 1,4-Dichlorobenzene-d4 | 6.82 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 25   |
| 3    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 4    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 5    |    | 1-Aminoindan                     | 133 | C9H11N    | 034698-41-4  | 9    |



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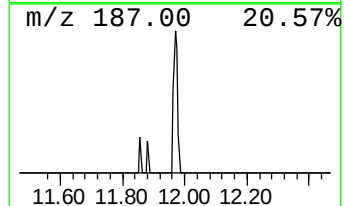
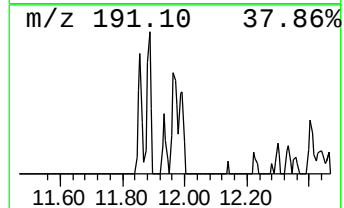
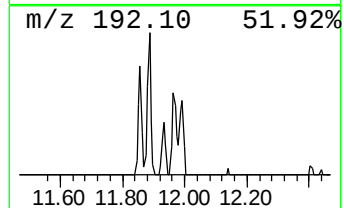
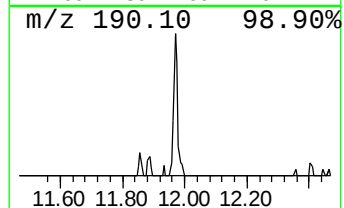
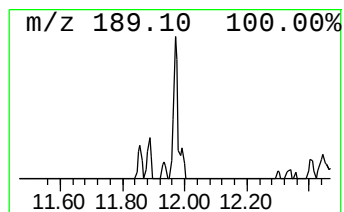
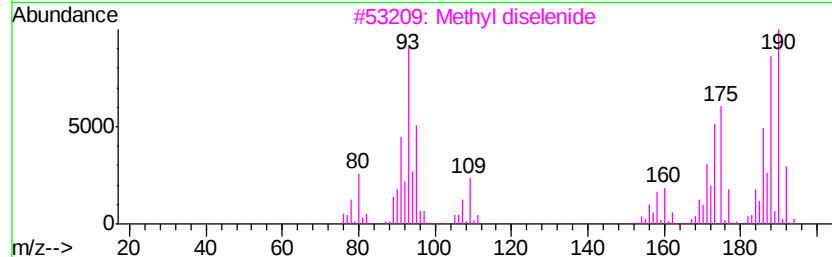
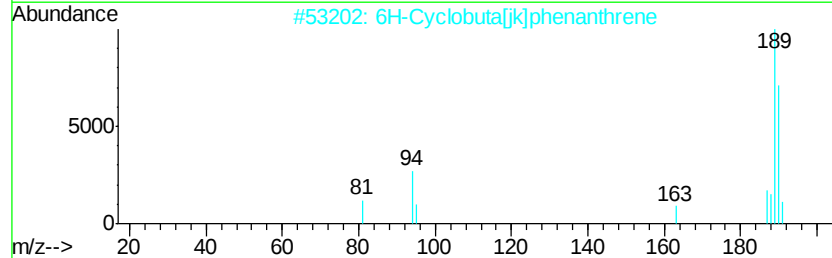
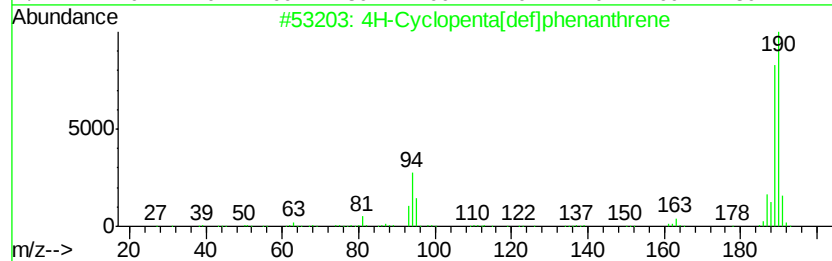
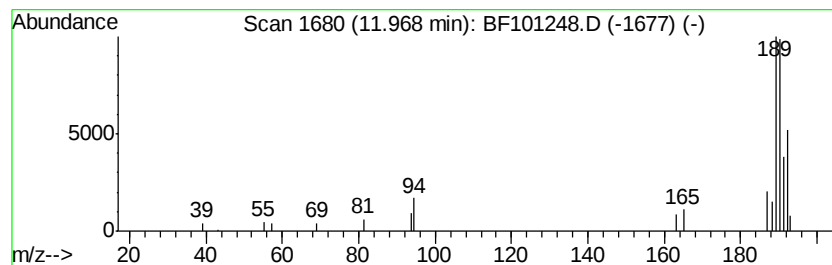
Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|-------|------------------|--------------|------|
| 11.97     | 2.06 ng                             | 30597 | Phenanthrene-d10 | 11.36        |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#         | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190   | C15H10           | 000203-64-5  | 64   |
| 2         | 6H-Cyclobuta[ik]phenanthrene        | 190   | C15H10           | 083469-43-6  | 64   |
| 3         | Methyl diselenide                   | 190   | C2H6Se2          | 007101-31-7  | 45   |
| 4         | 2,2'-Bis(4,5-dimethylimidazole)     | 190   | C10H14N4         | 069286-06-2  | 40   |
| 5         | 5-Thiazolecarboxamide, 4-amino-2... | 189   | C5H7N3OS2        | 1000338-08-9 | 22   |



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TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| unknown6.59          | 6.59  | 16.1    | ng    | 202801   | 1                     | 6.82  | 252639 | 20.0 |
| 4H-Cyclopenta[def... | 11.97 | 2.1     | ng    | 30597    | 4                     | 11.36 | 296850 | 20.0 |