

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF101718\  
 Data File : BF109931.D  
 Acq On : 17 Oct 2018 20:21  
 Operator : JU/SJ  
 Sample : J5200-09 2X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-01-101618-A

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-BF101518.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         | 2.281       | 29            | 33          | 56           | rVB      | 276683         | 485144        | 16.35%          | 0.890%        |
| 2         | 5.198       | 525           | 529         | 534          | rBV2     | 78041          | 116094        | 3.91%           | 0.213%        |
| 3         | 5.587       | 591           | 595         | 598          | rBV      | 2120321        | 1777520       | 59.92%          | 3.262%        |
| 4         | 6.587       | 760           | 765         | 769          | rVB      | 1883428        | 1823775       | 61.47%          | 3.347%        |
| 5         | 6.739       | 787           | 791         | 794          | rBV      | 2228420        | 1812478       | 61.09%          | 3.327%        |
| 6         | 6.975       | 827           | 831         | 835          | rVB      | 1739054        | 1381661       | 46.57%          | 2.536%        |
| 7         | 7.128       | 854           | 857         | 861          | rVB      | 1637528        | 1366199       | 46.05%          | 2.507%        |
| 8         | 7.534       | 922           | 926         | 929          | rBV      | 1226126        | 1036557       | 34.94%          | 1.902%        |
| 9         | 8.257       | 1046          | 1049        | 1052         | rVV      | 2097959        | 1770171       | 59.67%          | 3.249%        |
| 10        | 8.281       | 1052          | 1053        | 1055         | rVV      | 254899         | 126099        | 4.25%           | 0.231%        |
| 11        | 8.969       | 1167          | 1170        | 1173         | rVB      | 237735         | 194168        | 6.54%           | 0.356%        |
| 12        | 9.069       | 1183          | 1187        | 1191         | rBV      | 243459         | 228788        | 7.71%           | 0.420%        |
| 13        | 9.328       | 1228          | 1231        | 1235         | rBV      | 1922011        | 1706808       | 57.53%          | 3.133%        |
| 14        | 9.404       | 1241          | 1244        | 1247         | rBV      | 130815         | 116981        | 3.94%           | 0.215%        |
| 15        | 9.592       | 1273          | 1276        | 1281         | rBV2     | 137654         | 185722        | 6.26%           | 0.341%        |
| 16        | 9.669       | 1285          | 1289        | 1292         | rBV      | 209112         | 222766        | 7.51%           | 0.409%        |
| 17        | 9.698       | 1292          | 1294        | 1296         | rVV      | 132787         | 94203         | 3.18%           | 0.173%        |
| 18        | 9.722       | 1296          | 1298        | 1306         | rVB      | 308735         | 283991        | 9.57%           | 0.521%        |
| 19        | 9.786       | 1306          | 1309        | 1311         | rBV2     | 122282         | 116347        | 3.92%           | 0.214%        |
| 20        | 9.875       | 1321          | 1324        | 1328         | rBV      | 222924         | 198743        | 6.70%           | 0.365%        |
| 21        | 9.933       | 1331          | 1334        | 1338         | rVV      | 152844         | 119640        | 4.03%           | 0.220%        |
| 22        | 10.016      | 1345          | 1348        | 1351         | rVV2     | 1933164        | 1642705       | 55.37%          | 3.015%        |
| 23        | 10.051      | 1351          | 1354        | 1357         | rVV      | 395639         | 351536        | 11.85%          | 0.645%        |
| 24        | 10.222      | 1379          | 1383        | 1386         | rVV2     | 267578         | 281221        | 9.48%           | 0.516%        |
| 25        | 10.257      | 1386          | 1389        | 1393         | rVV      | 122513         | 112966        | 3.81%           | 0.207%        |
| 26        | 10.327      | 1397          | 1401        | 1404         | rBV2     | 111484         | 125398        | 4.23%           | 0.230%        |
| 27        | 10.433      | 1412          | 1419        | 1422         | rBV2     | 184835         | 253246        | 8.54%           | 0.465%        |
| 28        | 10.563      | 1438          | 1441        | 1446         | rVV      | 538547         | 483214        | 16.29%          | 0.887%        |
| 29        | 10.651      | 1454          | 1456        | 1458         | rVV      | 145078         | 136889        | 4.61%           | 0.251%        |
| 30        | 10.722      | 1463          | 1468        | 1471         | rVB3     | 96787          | 135852        | 4.58%           | 0.249%        |
| 31        | 10.804      | 1478          | 1482        | 1486         | rVB      | 1100583        | 953207        | 32.13%          | 1.749%        |
| 32        | 10.910      | 1497          | 1500        | 1501         | rBV      | 166464         | 157500        | 5.31%           | 0.289%        |
| 33        | 11.110      | 1529          | 1534        | 1537         | rBV2     | 134926         | 184599        | 6.22%           | 0.339%        |
| 34        | 11.139      | 1537          | 1539        | 1542         | rVV2     | 114547         | 106091        | 3.58%           | 0.195%        |

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 OR-01-101618-A

Integration Parameters: rteint.p  
 Integrator: RTE  
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 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-BF101518.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.198 | 1546 | 1549 | 1551 | rVB  | 91626   | 87156   | 2.94%  | 0.160% |
| 36 | 11.233 | 1551 | 1555 | 1557 | rBV3 | 63708   | 86115   | 2.90%  | 0.158% |
| 37 | 11.263 | 1557 | 1560 | 1564 | rVV3 | 64177   | 93057   | 3.14%  | 0.171% |
| 38 | 11.357 | 1572 | 1576 | 1578 | rVV2 | 191733  | 178070  | 6.00%  | 0.327% |
| 39 | 11.404 | 1578 | 1584 | 1588 | rVB2 | 243272  | 316909  | 10.68% | 0.582% |
| 40 | 11.510 | 1598 | 1602 | 1604 | rBV  | 1572648 | 1604590 | 54.09% | 2.945% |
| 41 | 11.533 | 1604 | 1606 | 1609 | rVV  | 2580177 | 1949806 | 65.72% | 3.579% |
| 42 | 11.580 | 1611 | 1614 | 1617 | rVV  | 677296  | 601917  | 20.29% | 1.105% |
| 43 | 11.616 | 1617 | 1620 | 1623 | rVV2 | 102381  | 134631  | 4.54%  | 0.247% |
| 44 | 11.733 | 1637 | 1640 | 1644 | rVV  | 249013  | 244148  | 8.23%  | 0.448% |
| 45 | 11.786 | 1646 | 1649 | 1650 | rVV  | 137142  | 125096  | 4.22%  | 0.230% |
| 46 | 11.839 | 1655 | 1658 | 1663 | rVV  | 138205  | 140157  | 4.72%  | 0.257% |
| 47 | 11.921 | 1669 | 1672 | 1675 | rBV  | 81440   | 93059   | 3.14%  | 0.171% |
| 48 | 12.010 | 1683 | 1687 | 1689 | rBV  | 507356  | 481328  | 16.22% | 0.883% |
| 49 | 12.033 | 1689 | 1691 | 1695 | rVB  | 469749  | 456029  | 15.37% | 0.837% |
| 50 | 12.086 | 1696 | 1700 | 1702 | rBV  | 182016  | 181513  | 6.12%  | 0.333% |
| 51 | 12.121 | 1702 | 1706 | 1709 | rVV2 | 650171  | 785003  | 26.46% | 1.441% |
| 52 | 12.145 | 1709 | 1710 | 1713 | rVB  | 281937  | 145383  | 4.90%  | 0.267% |
| 53 | 12.192 | 1715 | 1718 | 1723 | rBV2 | 132924  | 129042  | 4.35%  | 0.237% |
| 54 | 12.304 | 1734 | 1737 | 1739 | rBV  | 250858  | 205154  | 6.92%  | 0.377% |
| 55 | 12.327 | 1739 | 1741 | 1745 | rVB2 | 109187  | 104640  | 3.53%  | 0.192% |
| 56 | 12.480 | 1764 | 1767 | 1769 | rBV2 | 105250  | 87020   | 2.93%  | 0.160% |
| 57 | 12.504 | 1769 | 1771 | 1774 | rVB2 | 100478  | 96227   | 3.24%  | 0.177% |
| 58 | 12.557 | 1777 | 1780 | 1783 | rBV  | 287959  | 305626  | 10.30% | 0.561% |
| 59 | 12.580 | 1783 | 1784 | 1786 | rBV  | 90918   | 89561   | 3.02%  | 0.164% |
| 60 | 12.645 | 1792 | 1795 | 1799 | rBV2 | 138911  | 181857  | 6.13%  | 0.334% |
| 61 | 12.727 | 1805 | 1809 | 1812 | rBV  | 2673006 | 2359745 | 79.54% | 4.331% |
| 62 | 12.816 | 1820 | 1824 | 1827 | rVB3 | 96722   | 151126  | 5.09%  | 0.277% |
| 63 | 12.874 | 1832 | 1834 | 1837 | rBV  | 112561  | 99354   | 3.35%  | 0.182% |
| 64 | 12.957 | 1841 | 1848 | 1853 | rBV  | 2769625 | 2847735 | 95.99% | 5.227% |
| 65 | 13.004 | 1853 | 1856 | 1860 | rVB2 | 153868  | 190345  | 6.42%  | 0.349% |
| 66 | 13.092 | 1864 | 1871 | 1873 | rBV  | 1705786 | 1640274 | 55.29% | 3.010% |
| 67 | 13.168 | 1880 | 1884 | 1888 | rBV3 | 190671  | 324493  | 10.94% | 0.596% |
| 68 | 13.257 | 1896 | 1899 | 1900 | rBV2 | 134384  | 132801  | 4.48%  | 0.244% |
| 69 | 13.280 | 1900 | 1903 | 1906 | rVB  | 496992  | 457815  | 15.43% | 0.840% |
| 70 | 13.310 | 1906 | 1908 | 1910 | rBV  | 122208  | 102786  | 3.46%  | 0.189% |
| 71 | 13.345 | 1911 | 1914 | 1917 | rVV  | 390521  | 337951  | 11.39% | 0.620% |

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 ClientSampleId :  
 OR-01-101618-A

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
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 Start Thrs: 0.2  
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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-BF101518.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 13.386 | 1917 | 1921 | 1923 | rVV2 | 321803  | 316353  | 10.66%  | 0.581% |
| 73  | 13.480 | 1934 | 1937 | 1939 | rBV  | 203428  | 180950  | 6.10%   | 0.332% |
| 74  | 13.510 | 1939 | 1942 | 1945 | rBV  | 236075  | 209597  | 7.06%   | 0.385% |
| 75  | 13.651 | 1964 | 1966 | 1968 | rBV2 | 138577  | 115043  | 3.88%   | 0.211% |
| 76  | 13.786 | 1987 | 1989 | 1994 | rVB2 | 131852  | 153494  | 5.17%   | 0.282% |
| 77  | 13.904 | 2004 | 2009 | 2011 | rBV2 | 244106  | 314668  | 10.61%  | 0.578% |
| 78  | 13.927 | 2011 | 2013 | 2015 | rVV  | 208175  | 167038  | 5.63%   | 0.307% |
| 79  | 13.957 | 2015 | 2018 | 2019 | rVV  | 164443  | 178129  | 6.00%   | 0.327% |
| 80  | 13.980 | 2020 | 2022 | 2030 | rVB3 | 244203  | 340061  | 11.46%  | 0.624% |
| 81  | 14.151 | 2046 | 2051 | 2054 | rBV2 | 2119375 | 2966714 | 100.00% | 5.445% |
| 82  | 14.180 | 2054 | 2056 | 2061 | rVB  | 1237372 | 1006457 | 33.92%  | 1.847% |
| 83  | 14.262 | 2067 | 2070 | 2072 | rBV  | 167330  | 131267  | 4.42%   | 0.241% |
| 84  | 14.298 | 2073 | 2076 | 2080 | rVV2 | 283477  | 289703  | 9.77%   | 0.532% |
| 85  | 14.374 | 2086 | 2089 | 2092 | rBV2 | 119155  | 163212  | 5.50%   | 0.300% |
| 86  | 14.539 | 2113 | 2117 | 2120 | rVB  | 317503  | 340401  | 11.47%  | 0.625% |
| 87  | 14.574 | 2120 | 2123 | 2125 | rBV  | 140823  | 131184  | 4.42%   | 0.241% |
| 88  | 14.604 | 2125 | 2128 | 2131 | rBV2 | 381274  | 363553  | 12.25%  | 0.667% |
| 89  | 14.668 | 2136 | 2139 | 2141 | rVV2 | 200326  | 203545  | 6.86%   | 0.374% |
| 90  | 14.692 | 2141 | 2143 | 2147 | rVB2 | 172595  | 151540  | 5.11%   | 0.278% |
| 91  | 14.927 | 2180 | 2183 | 2188 | rVB  | 505571  | 475762  | 16.04%  | 0.873% |
| 92  | 15.227 | 2229 | 2234 | 2241 | rBV  | 813564  | 1784307 | 60.14%  | 3.275% |
| 93  | 15.286 | 2241 | 2244 | 2250 | rVV  | 682895  | 793995  | 26.76%  | 1.457% |
| 94  | 15.339 | 2250 | 2253 | 2256 | rVB  | 184996  | 179865  | 6.06%   | 0.330% |
| 95  | 15.545 | 2285 | 2288 | 2294 | rVB  | 523309  | 704784  | 23.76%  | 1.294% |
| 96  | 15.615 | 2295 | 2300 | 2306 | rBV  | 736574  | 1035265 | 34.90%  | 1.900% |
| 97  | 15.686 | 2306 | 2312 | 2323 | rVV3 | 1608004 | 2666413 | 89.88%  | 4.894% |
| 98  | 16.156 | 2387 | 2392 | 2396 | rBV  | 440084  | 659676  | 22.24%  | 1.211% |
| 99  | 16.698 | 2481 | 2484 | 2490 | rVB  | 229900  | 338823  | 11.42%  | 0.622% |
| 100 | 17.239 | 2572 | 2576 | 2583 | rVB2 | 262236  | 487872  | 16.44%  | 0.895% |

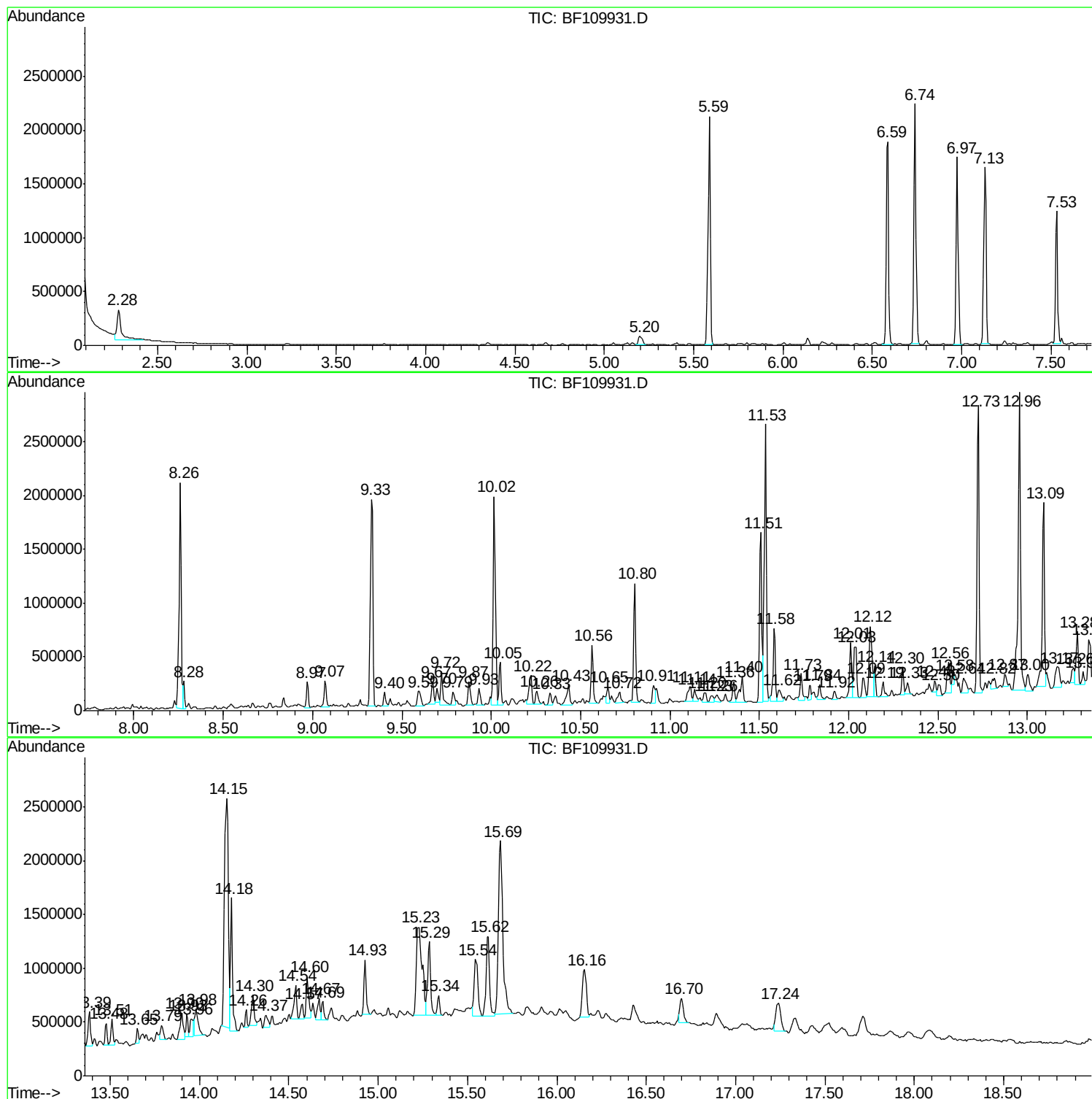
Sum of corrected areas: 54485469

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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
OR-01-101618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.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\BF101718\  
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ClientSampleId :  
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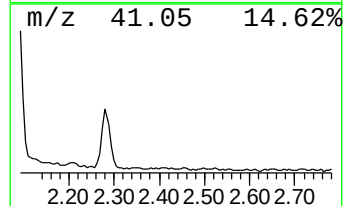
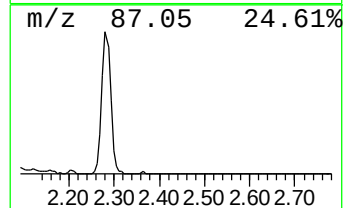
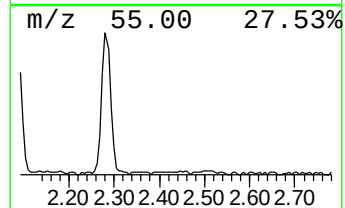
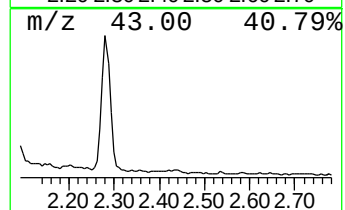
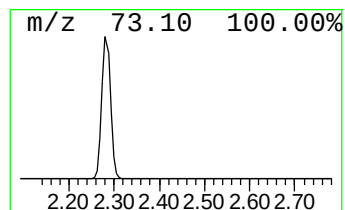
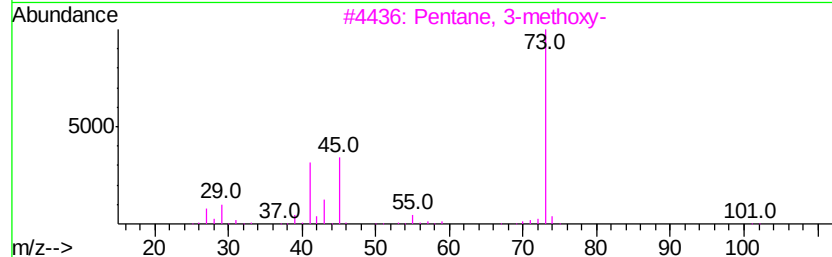
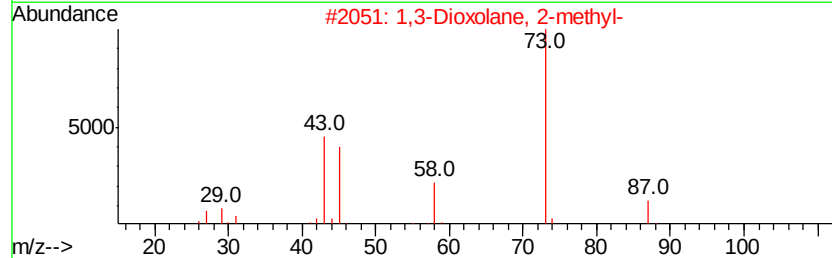
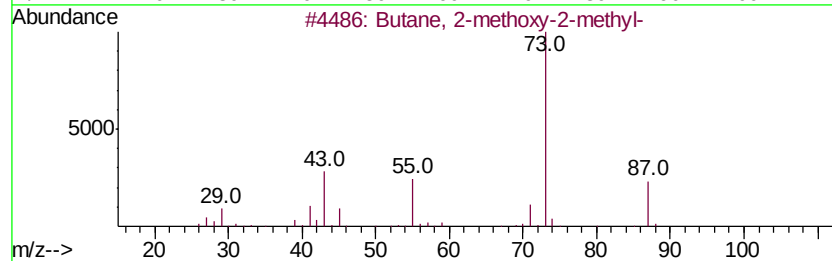
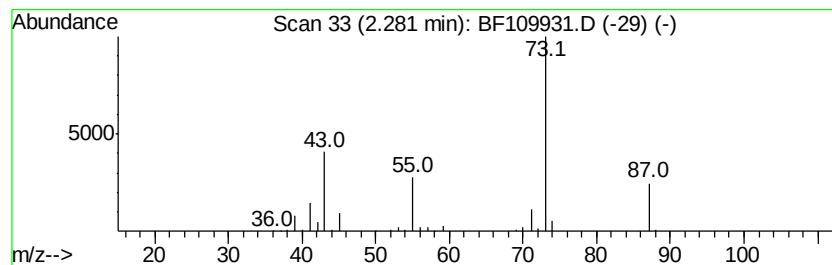
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.28 | 7.02 ng | 485144 | 1,4-Dichlorobenzene-d4 | 6.97 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    |   | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 25   |
| 3    |    |   | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 12   |
| 4    |    |   | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 10   |
| 5    |    |   | N-Ethylformamide            | 73  | C3H7NO  | 000627-45-2 | 9    |



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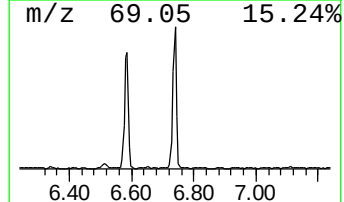
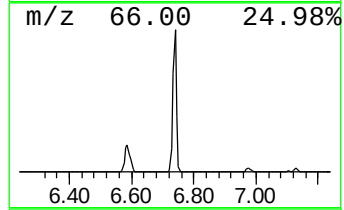
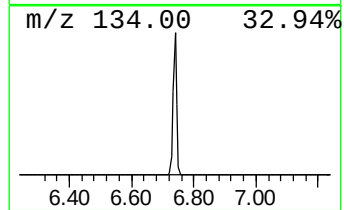
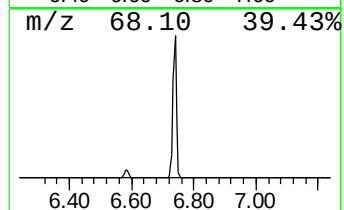
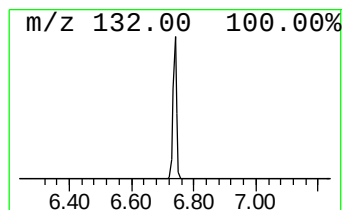
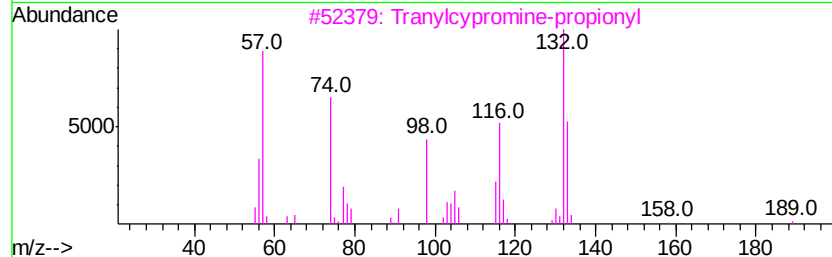
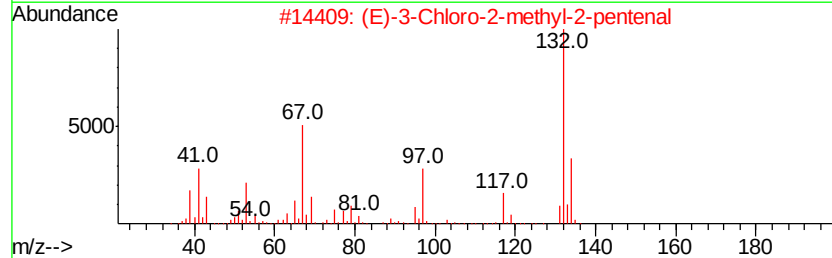
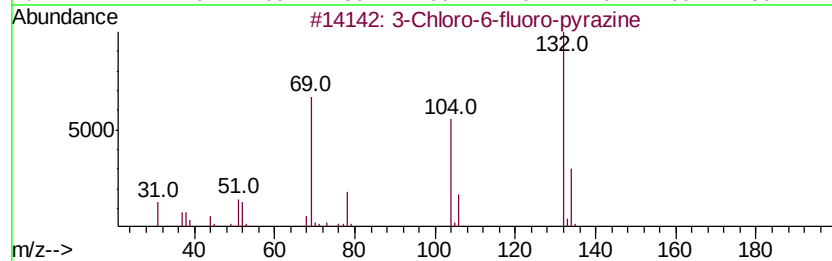
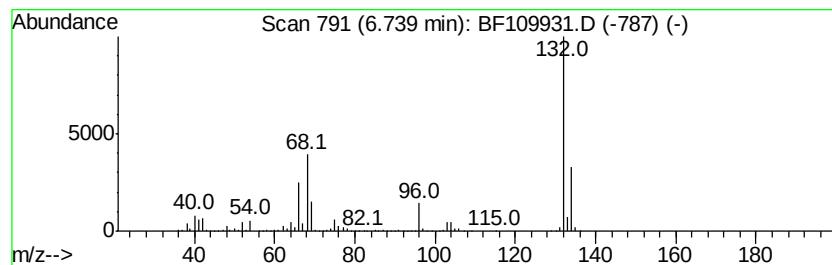
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 unknown6.74 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.74 | 26.24 ng | 1812480 | 1,4-Dichlorobenzene-d4 | 6.97 |

| 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  | 16   |
| 3    |    | Tranvlcypropine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | 4-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-60-2  | 9    |
| 5    |    | 4-Chloro-2-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-00-5  | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
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Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

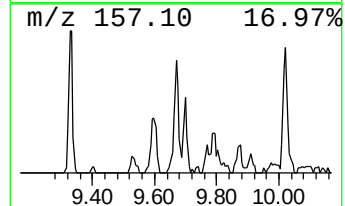
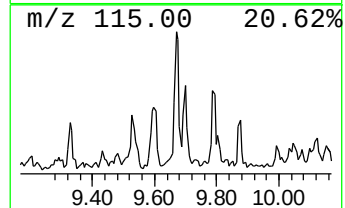
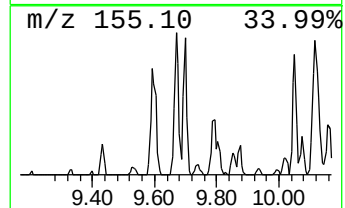
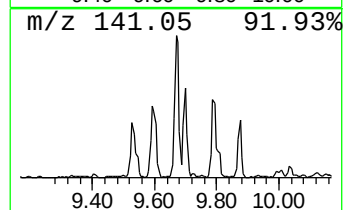
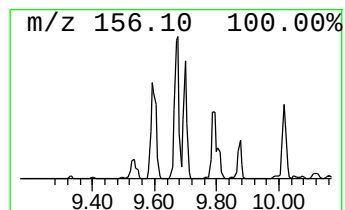
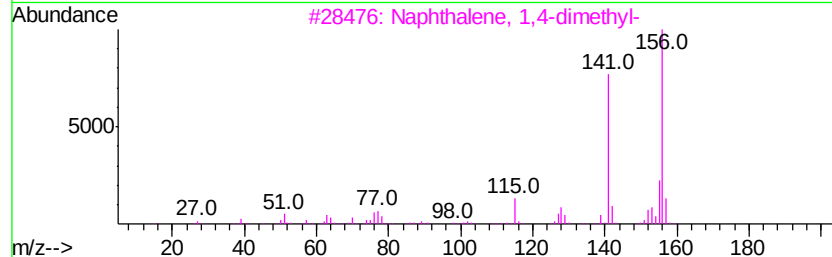
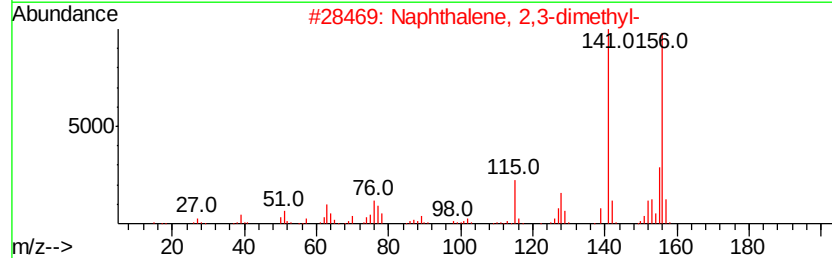
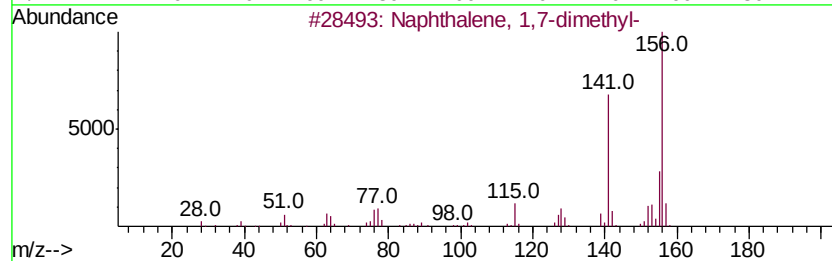
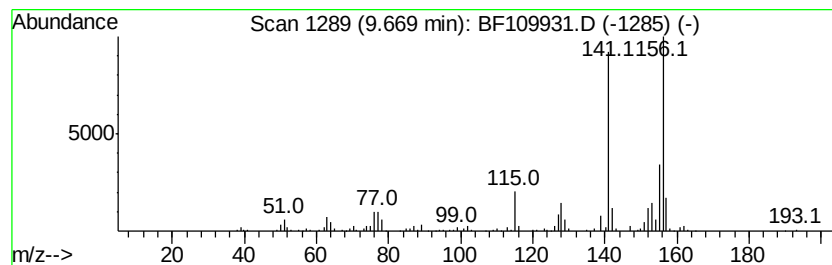
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OR-01-101618-A

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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 4 Naphthalene, 1,7-dimethyl- Concentration Rank 14

| R.T.    | EstConc | Area                       | Relative to ISTD | R.T.           |
|---------|---------|----------------------------|------------------|----------------|
| 9.67    | 2.71 ng | 222766                     | Acenaphthene-d10 | 10.02          |
| Hit# of | 5       | Tentative ID               | MW MolForm       | CAS# Qual      |
| 1       |         | Naphthalene, 1,7-dimethyl- | 156 C12H12       | 000575-37-1 97 |
| 2       |         | Naphthalene, 2,3-dimethyl- | 156 C12H12       | 000581-40-8 97 |
| 3       |         | Naphthalene, 1,4-dimethyl- | 156 C12H12       | 000571-58-4 97 |
| 4       |         | Naphthalene, 2,6-dimethyl- | 156 C12H12       | 000581-42-0 97 |
| 5       |         | Naphthalene, 2,7-dimethyl- | 156 C12H12       | 000582-16-1 96 |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
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Operator : JU/SJ  
Sample : J5200-09 2X  
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ALS Vial : 9 Sample Multiplier: 1

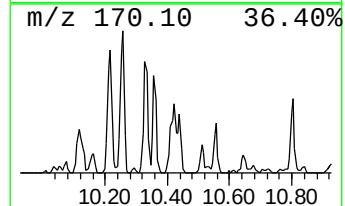
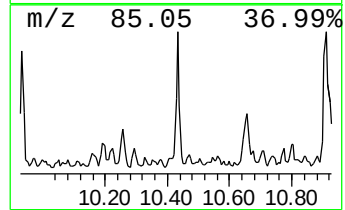
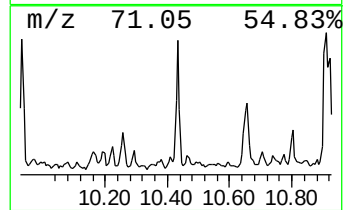
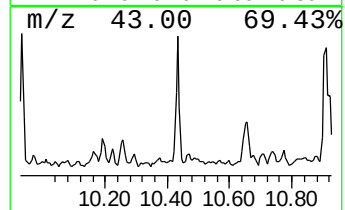
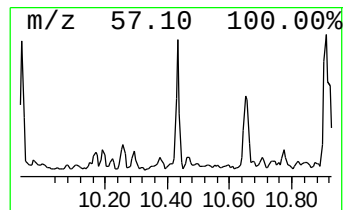
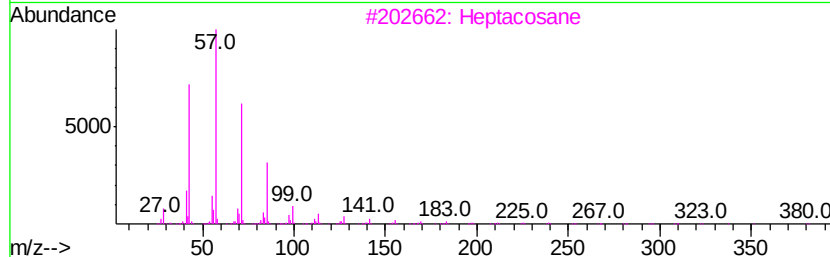
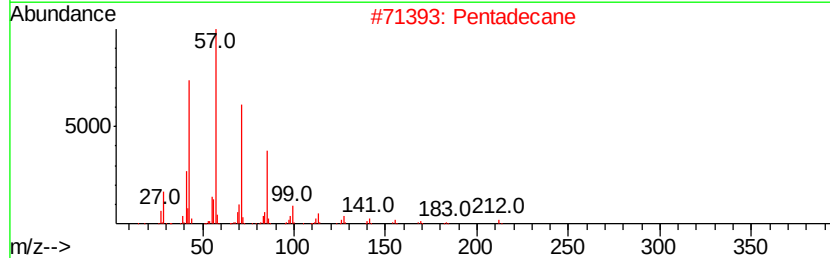
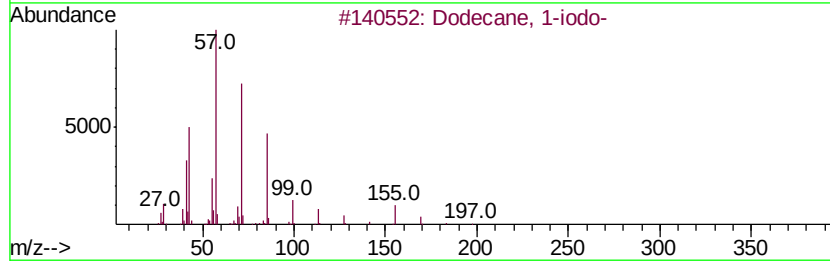
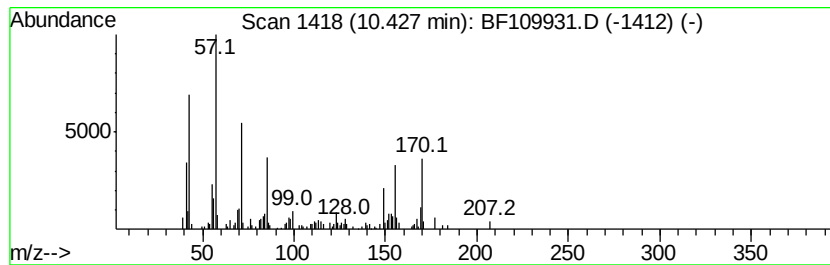
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 Dodecane, 1-iodo- Concentration Rank 13

| R.T.      | EstConc           | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------|--------|------------------|-------------|------|
| 10.43     | 3.08 ng           | 253246 | Acenaphthene-d10 | 10.02       |      |
| Hit# of 5 | Tentative ID      | MW     | MolForm          | CAS#        | Qual |
| 1         | Dodecane, 1-iodo- | 296    | C12H25I          | 004292-19-7 | 58   |
| 2         | Pentadecane       | 212    | C15H32           | 000629-62-9 | 52   |
| 3         | Heptacosane       | 380    | C27H56           | 000593-49-7 | 52   |
| 4         | Octacosane        | 394    | C28H58           | 000630-02-4 | 52   |
| 5         | Eicosane          | 282    | C20H42           | 000112-95-8 | 52   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
Acq On : 17 Oct 2018 20:21  
Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-101618-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

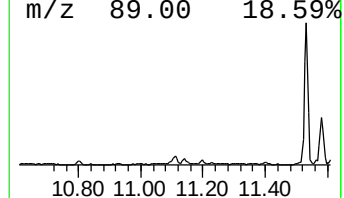
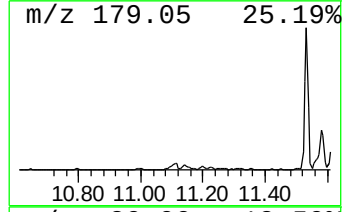
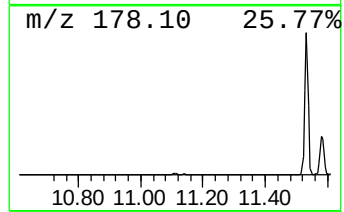
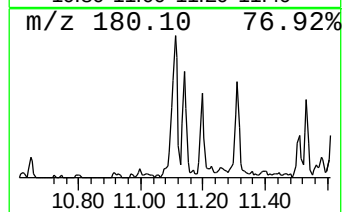
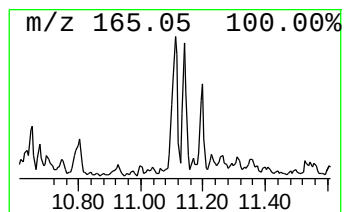
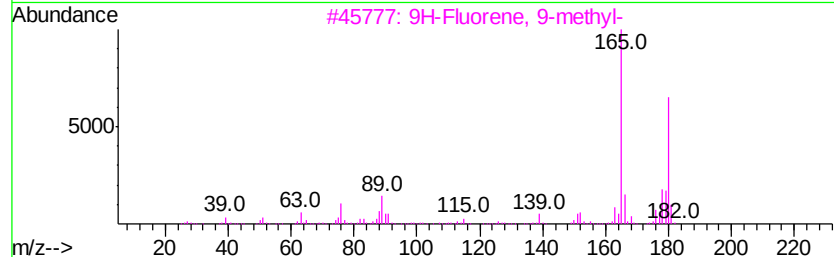
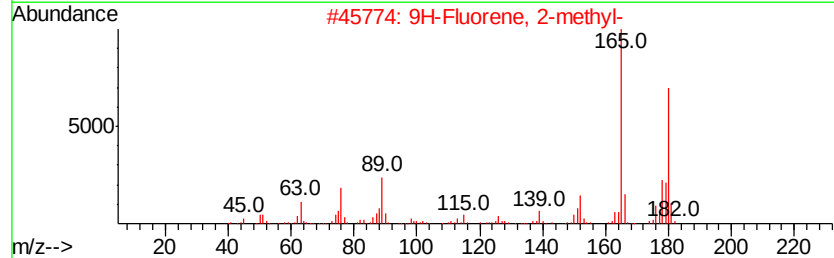
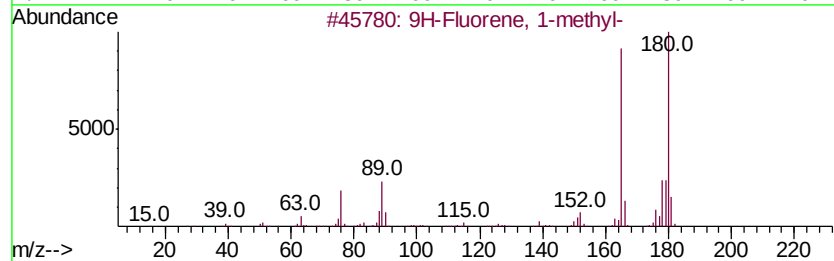
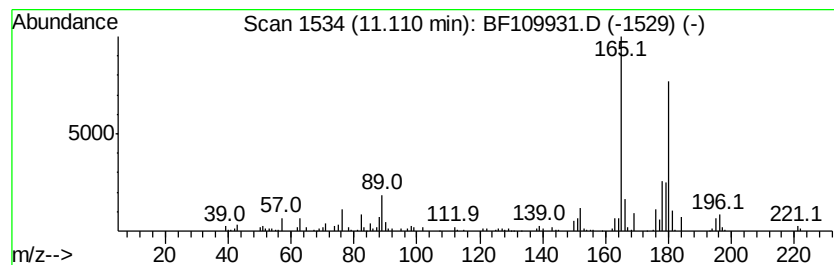
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 9H-Fluorene, 1-methyl- Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.11 | 2.30 ng | 184599 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|-----------|-------------------------------------|-----|---------|-------------|------|
| 1         | 9H-Fluorene, 1-methyl-              | 180 | C14H12  | 001730-37-6 | 94   |
| 2         | 9H-Fluorene, 2-methyl-              | 180 | C14H12  | 001430-97-3 | 93   |
| 3         | 9H-Fluorene, 9-methyl-              | 180 | C14H12  | 002523-37-7 | 90   |
| 4         | 9H-Fluorene, 3-methyl-              | 180 | C14H12  | 002523-39-9 | 89   |
| 5         | Benzenethiol, 4-(1,1-dimethyleth... | 180 | C11H16S | 015570-10-2 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
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Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

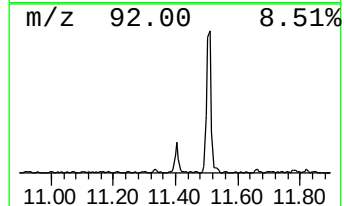
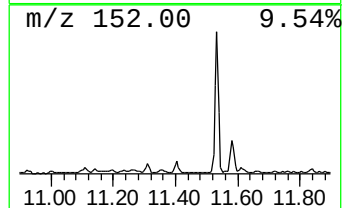
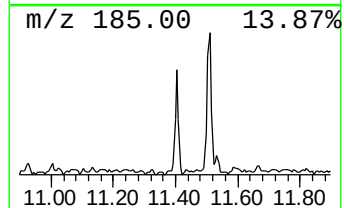
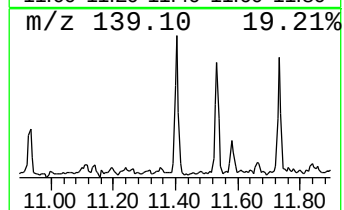
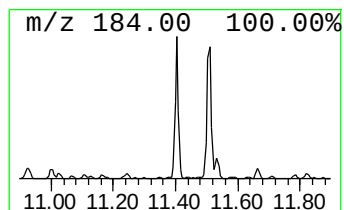
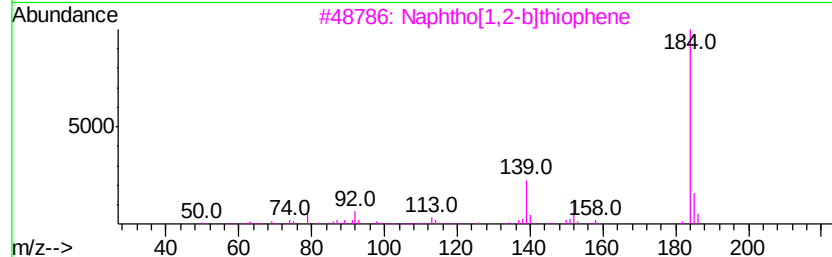
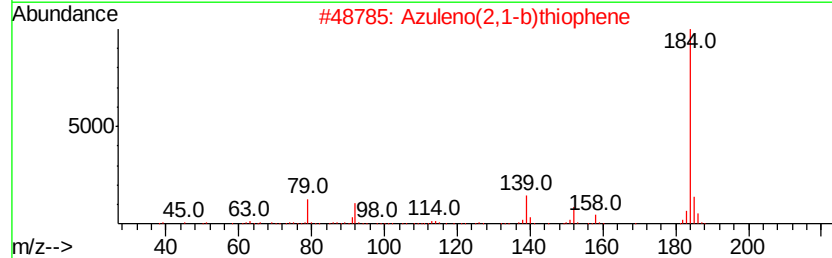
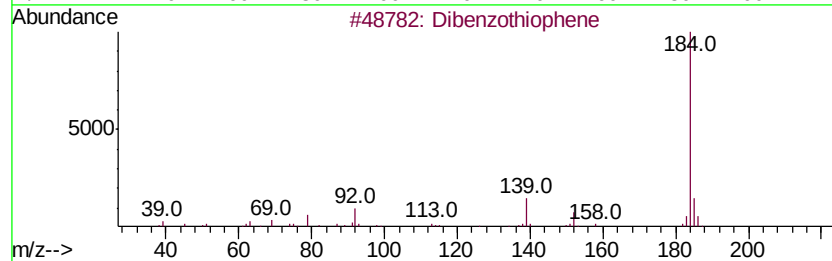
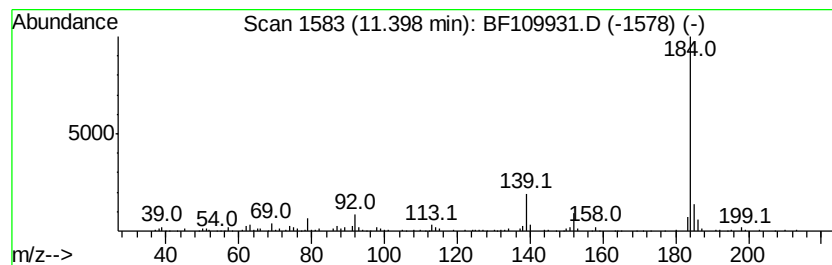
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OR-01-101618-A

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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 7 Dibenzothiophene Concentration Rank 9

| R.T.      | EstConc                 | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------|--------|------------------|-------------|-------|
| 11.40     | 3.95 ng                 | 316909 | Phenanthrene-d10 |             | 11.51 |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual  |
| 1         | Dibenzothiophene        | 184    | C12H8S           | 000132-65-0 | 96    |
| 2         | Azuleno(2,1-b)thiophene | 184    | C12H8S           | 000248-13-5 | 91    |
| 3         | Naphtho[1,2-b]thiophene | 184    | C12H8S           | 000234-41-3 | 87    |
| 4         | Naphtho[2,3-b]thiophene | 184    | C12H8S           | 000268-77-9 | 87    |
| 5         | Naphtho[2,1-b]thiophene | 184    | C12H8S           | 000233-02-3 | 86    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
Acq On : 17 Oct 2018 20:21  
Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-101618-A

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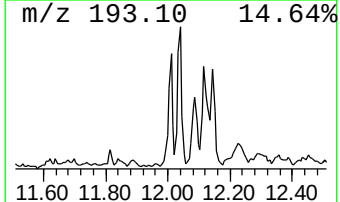
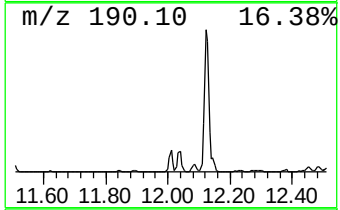
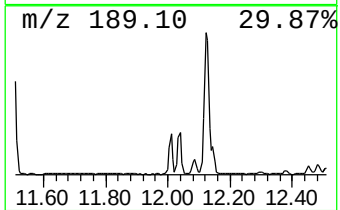
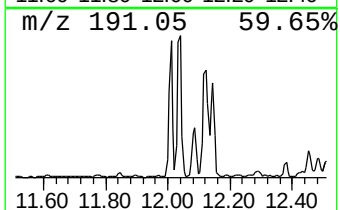
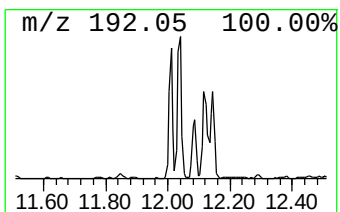
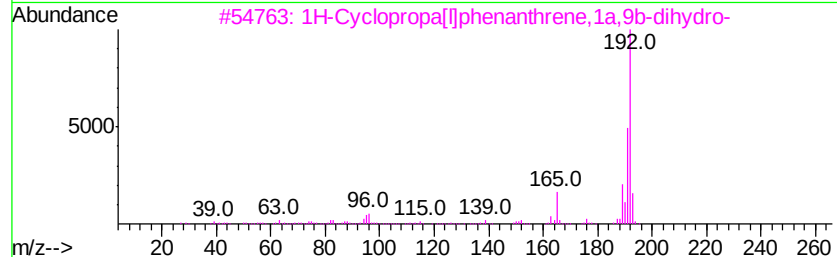
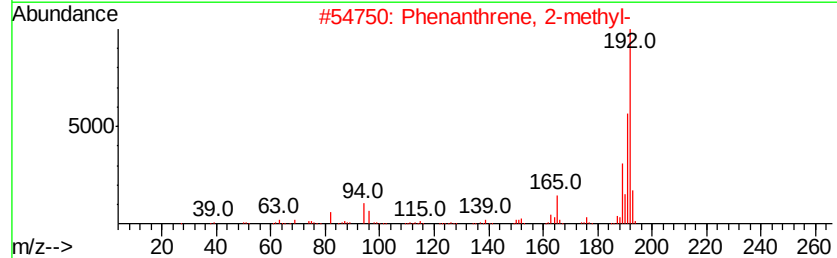
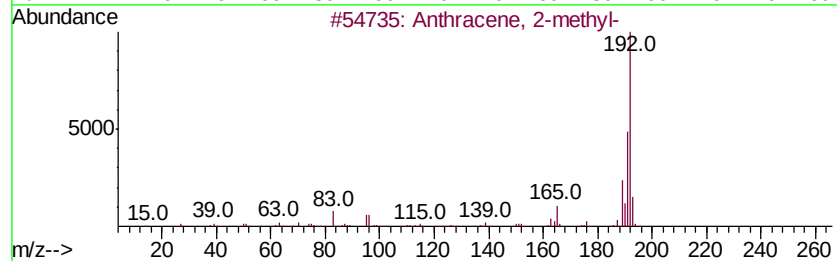
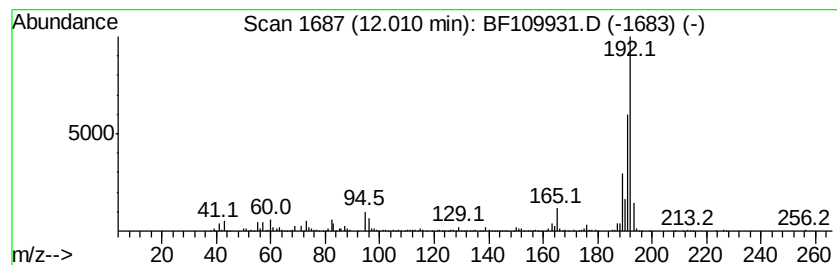
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Anthracene, 2-methyl- Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.01 | 6.00 ng | 481328 | Phenanthrene-d10 | 11.51 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 96   |
| 2       |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 95   |
| 3       |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 94   |
| 4       |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 90   |
| 5       |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 90   |



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Data File : BF109931.D  
Acq On : 17 Oct 2018 20:21  
Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-101618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
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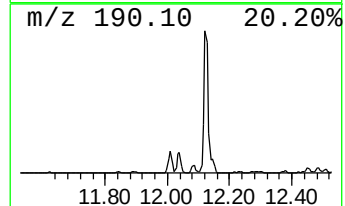
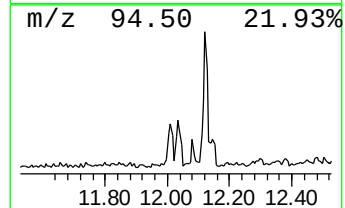
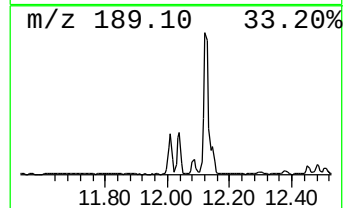
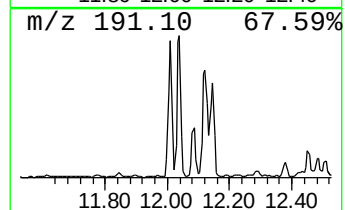
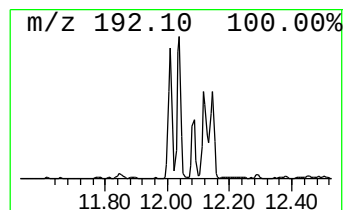
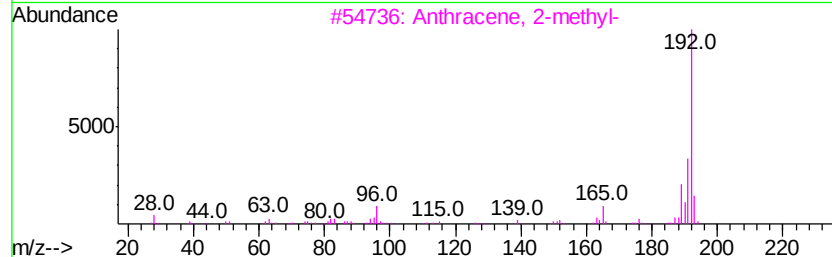
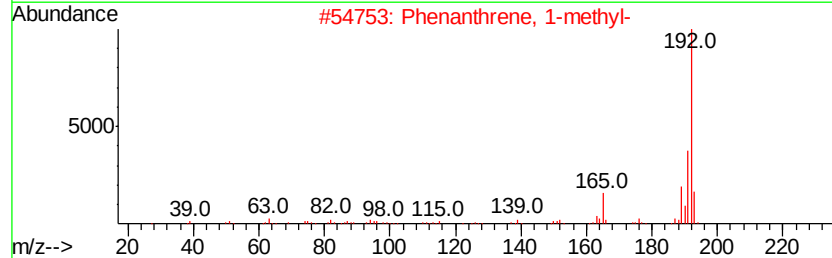
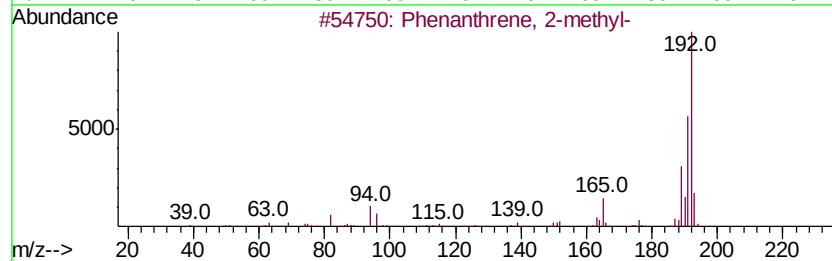
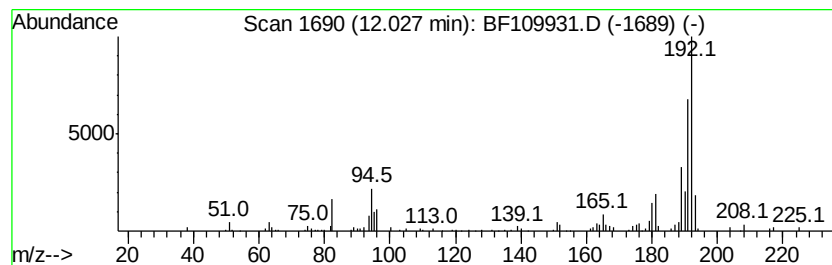
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.03 | 5.68 ng | 456029 | Phenanthrene-d10 | 11.51 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2-methyl-     | 192 | C15H12  | 002531-84-2 | 96   |
| 2    |    | Phenanthrene, 1-methyl-     | 192 | C15H12  | 000832-69-9 | 95   |
| 3    |    | Anthracene, 2-methyl-       | 192 | C15H12  | 000613-12-7 | 94   |
| 4    |    | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12  | 000256-81-5 | 94   |
| 5    |    | Anthracene, 1-methyl-       | 192 | C15H12  | 000610-48-0 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
Acq On : 17 Oct 2018 20:21  
Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-101618-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

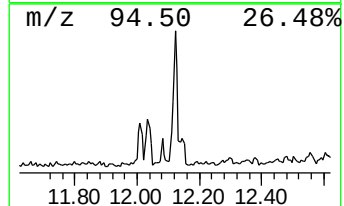
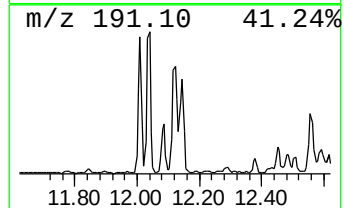
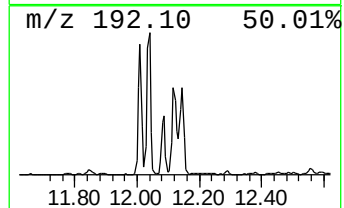
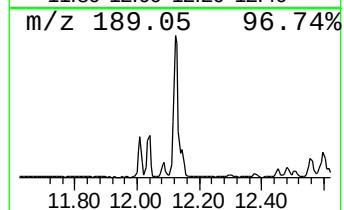
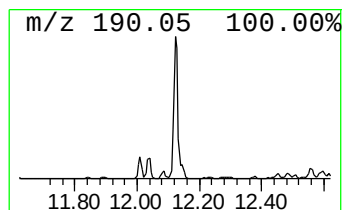
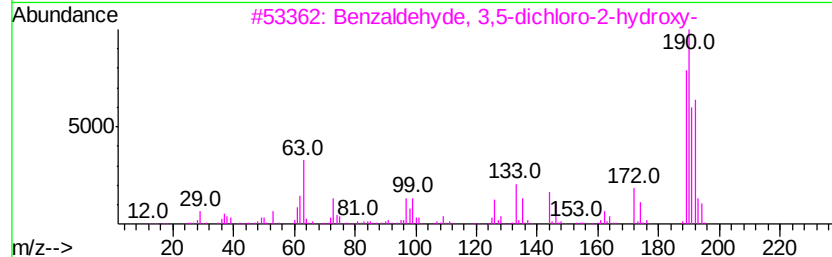
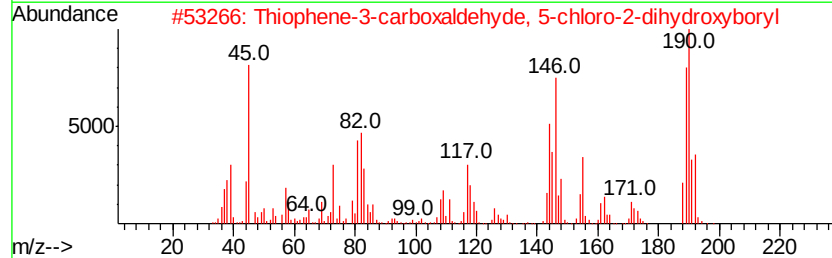
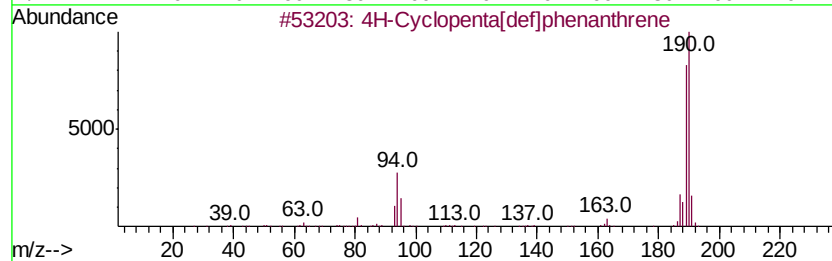
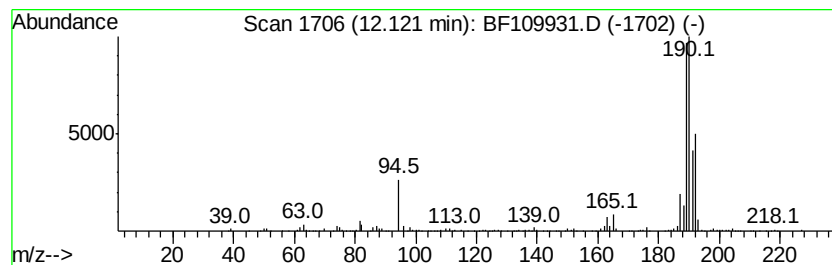
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.12 | 9.78 ng | 785003 | Phenanthrene-d10 | 11.51 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5 | 94   |
| 2    |    | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 53   |
| 3    |    | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2  | 000090-60-8 | 50   |
| 4    |    | 6H-Cyclobuta[flk]phenanthrene       | 190 | C15H10     | 083469-43-6 | 40   |
| 5    |    | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4   | 069286-06-2 | 40   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
Acq On : 17 Oct 2018 20:21  
Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

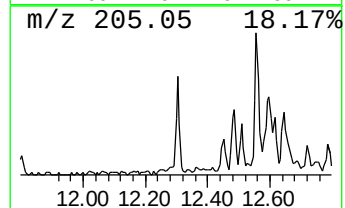
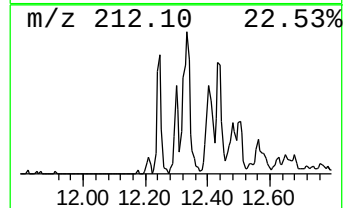
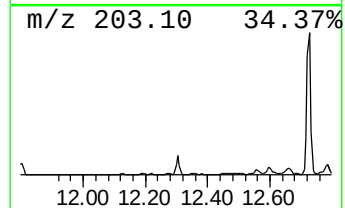
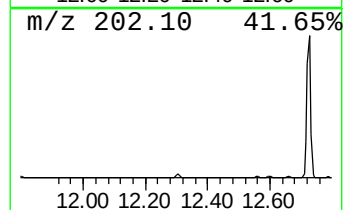
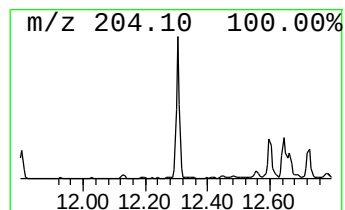
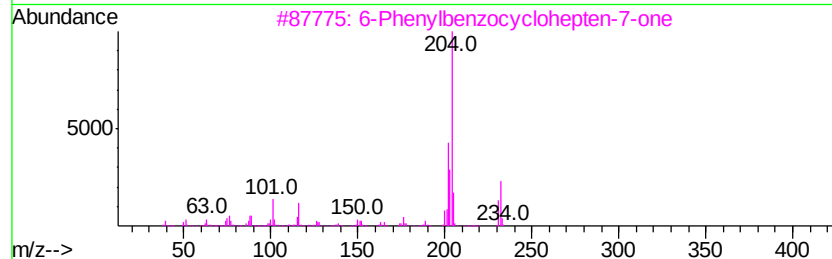
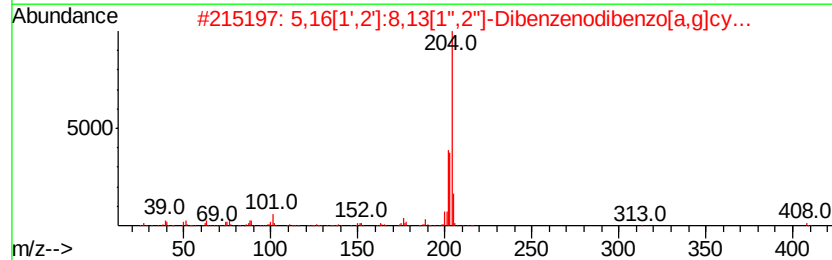
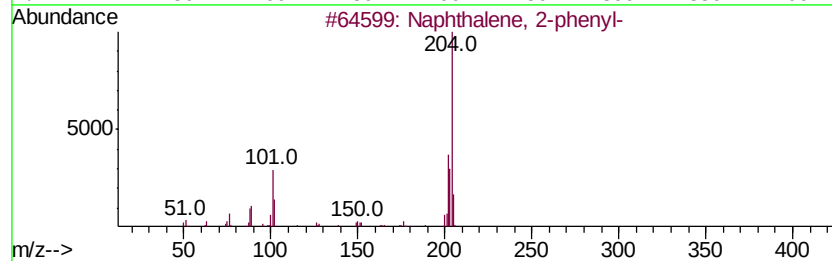
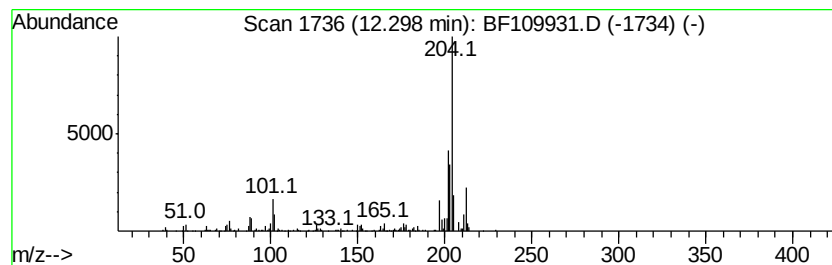
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ClientSampleId :  
OR-01-101618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 15

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.           |
|---------|---------|-------------------------------------|------------------|----------------|
| 12.30   | 2.56 ng | 205154                              | Phenanthrene-d10 | 11.51          |
| Hit# of | 5       | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |         | Naphthalene, 2-phenyl-              | 204 C16H12       | 000612-94-2 95 |
| 2       |         | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 C32H24       | 005672-97-9 87 |
| 3       |         | 6-Phenylbenzocyclohepten-7-one      | 232 C17H12O      | 093327-56-1 86 |
| 4       |         | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 C16H12       | 006572-60-7 81 |
| 5       |         | 9,10-Bis(bromomethyl)anthracene     | 362 C16H12Br2    | 034373-96-1 62 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
Acq On : 17 Oct 2018 20:21  
Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-101618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

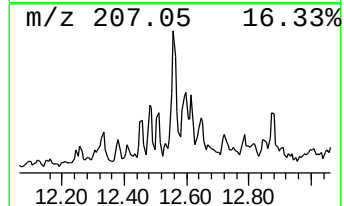
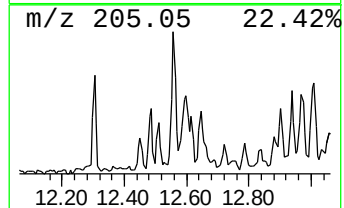
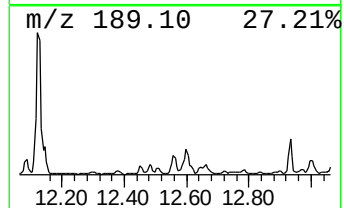
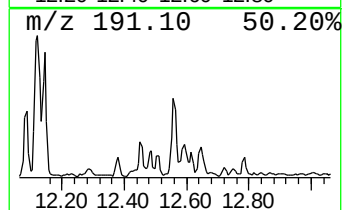
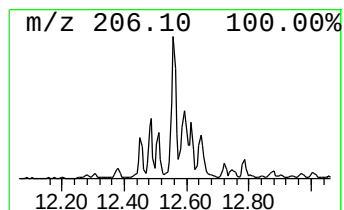
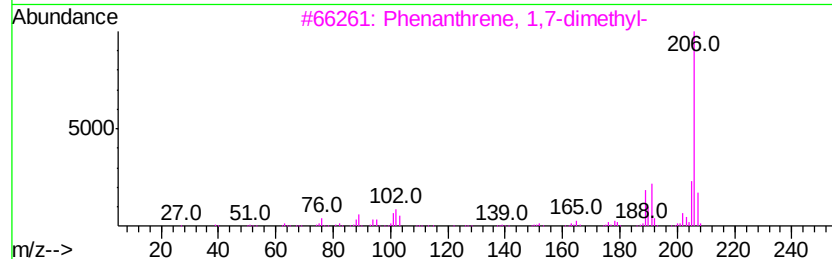
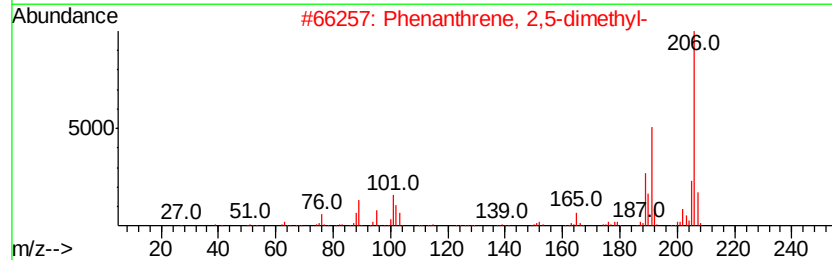
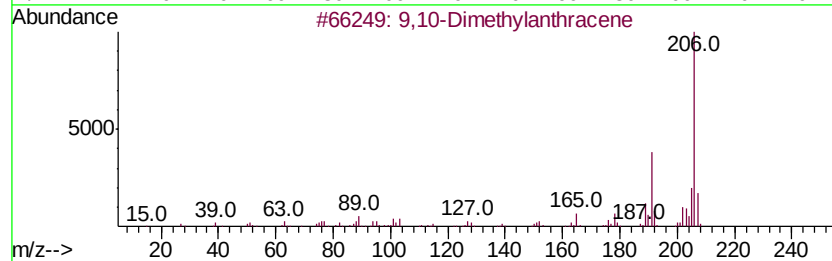
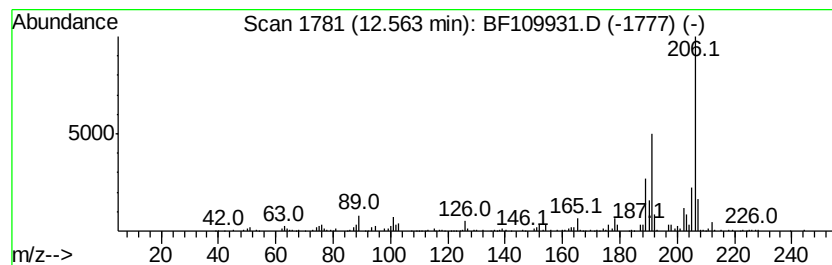
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 9,10-Dimethylantracene Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.56 | 3.81 ng | 305626 | Phenanthrene-d10 | 11.51 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 96   |
| 2    |    | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 95   |
| 3    |    | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 91   |
| 4    |    | di-p-Tolylacetylene         | 206 | C16H14  | 002789-88-0 | 91   |
| 5    |    | Anthracene, 1,4-dimethyl-   | 206 | C16H14  | 000781-92-0 | 91   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
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Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

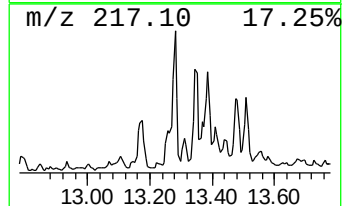
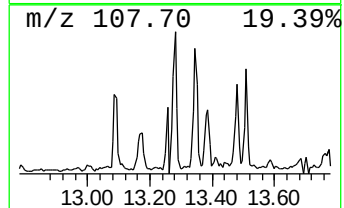
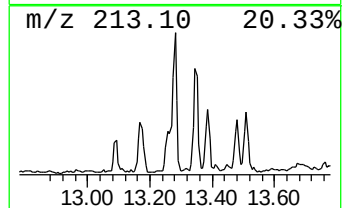
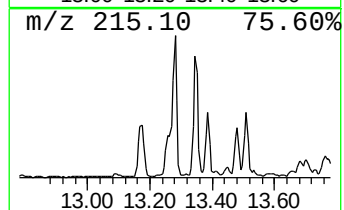
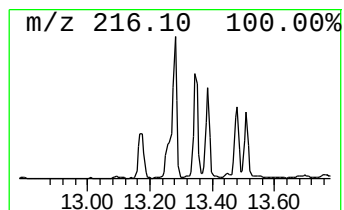
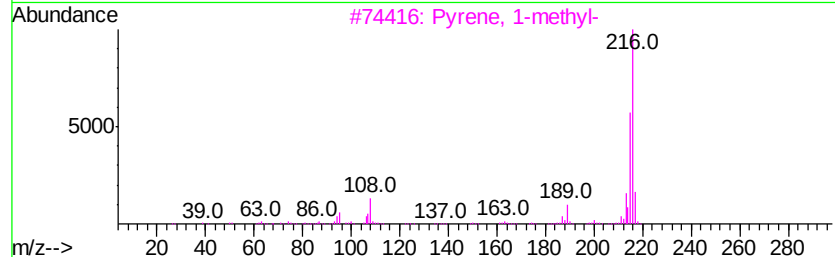
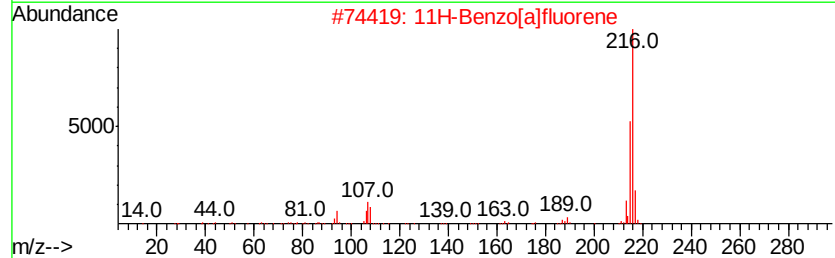
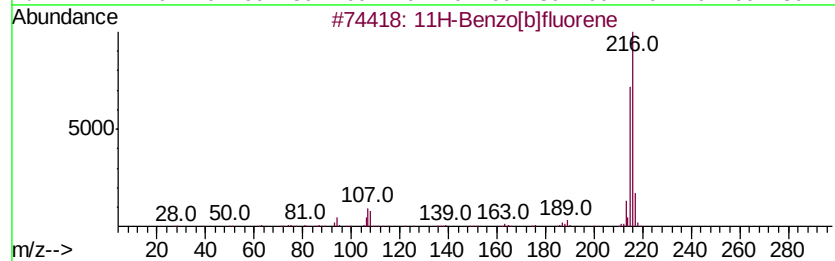
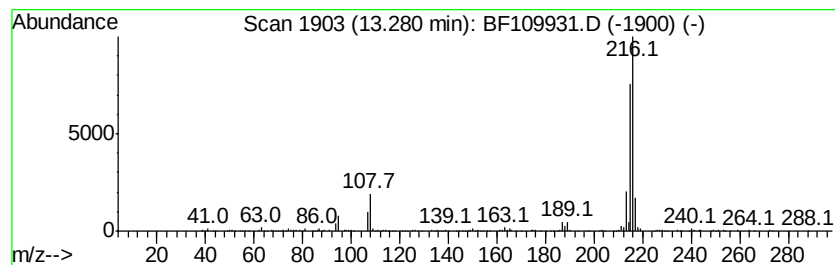
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ClientSampleId :  
OR-01-101618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.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 13 11H-Benzo[b]fluorene Concentration Rank 12

| R.T.    | EstConc | Area                 | Relative to ISTD | R.T.    |             |      |
|---------|---------|----------------------|------------------|---------|-------------|------|
| 13.28   | 3.09 ng | 457815               | Chrysene-d12     | 14.16   |             |      |
| Hit# of | 5       | Tentative ID         | MW               | MolForm | CAS#        | Qual |
| 1       |         | 11H-Benzo[b]fluorene | 216              | C17H12  | 000243-17-4 | 87   |
| 2       |         | 11H-Benzo[a]fluorene | 216              | C17H12  | 000238-84-6 | 87   |
| 3       |         | Pvrene, 1-methyl-    | 216              | C17H12  | 002381-21-7 | 78   |
| 4       |         | Pyrene, 2-methyl-    | 216              | C17H12  | 003442-78-2 | 76   |
| 5       |         | 7H-Benzo[c]fluorene  | 216              | C17H12  | 000205-12-9 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
Acq On : 17 Oct 2018 20:21  
Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-101618-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

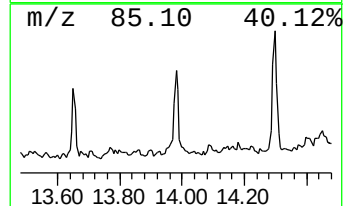
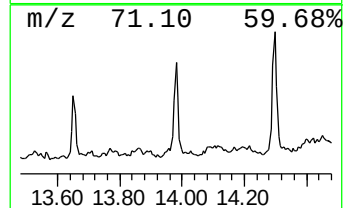
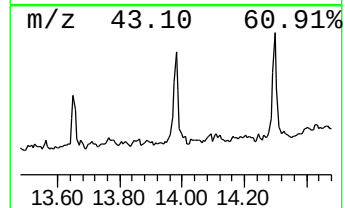
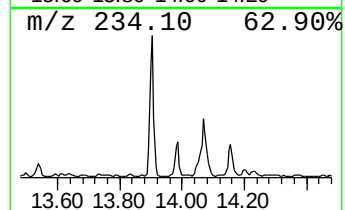
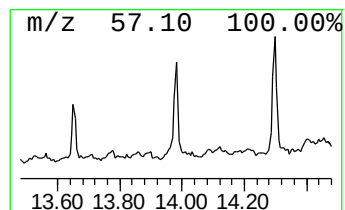
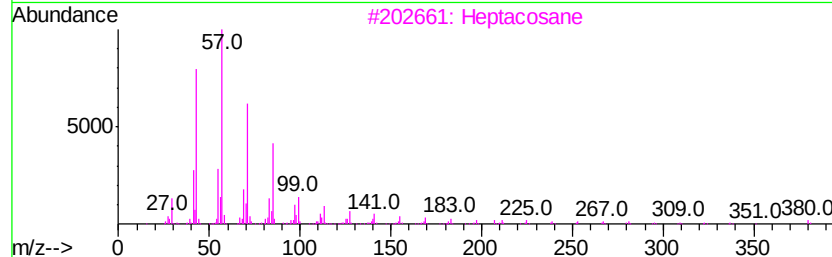
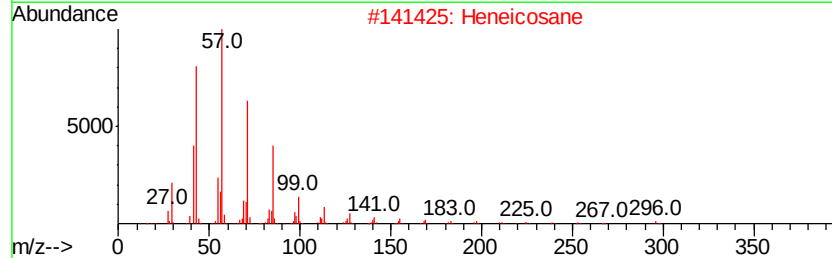
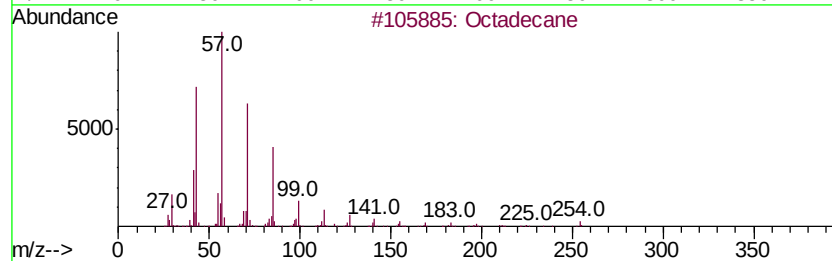
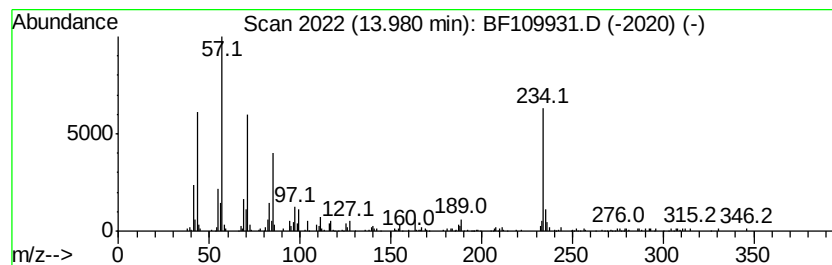
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Octadecane Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.98 | 2.29 ng | 340061 | Chrysene-d12     | 14.16 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Octadecane                          | 254 | C18H38  | 000593-45-3 | 91   |
| 2    |    | Heneicosane                         | 296 | C21H44  | 000629-94-7 | 90   |
| 3    |    | Heptacosane                         | 380 | C27H56  | 000593-49-7 | 64   |
| 4    |    | Heptadecane                         | 240 | C17H36  | 000629-78-7 | 60   |
| 5    |    | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 60   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
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Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

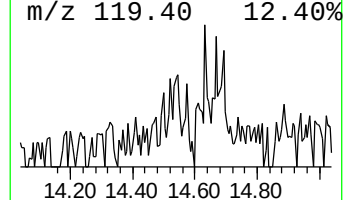
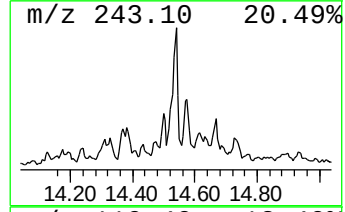
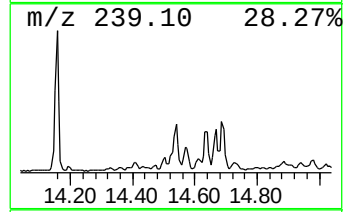
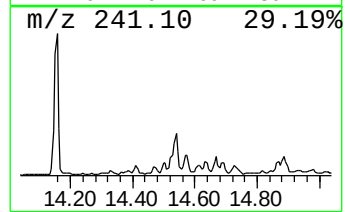
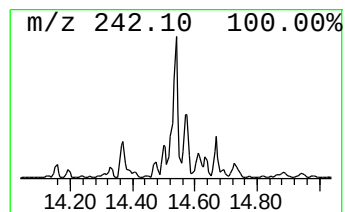
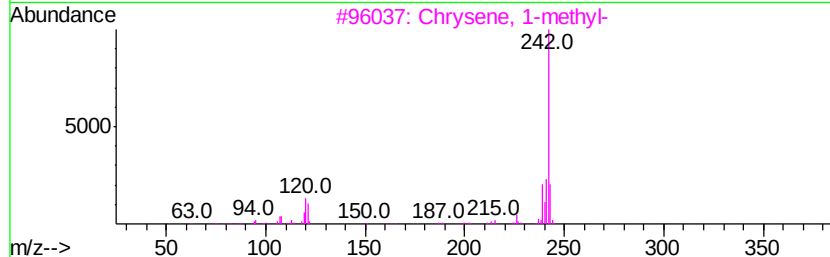
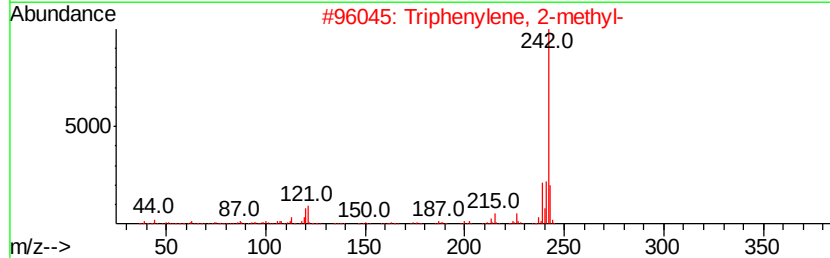
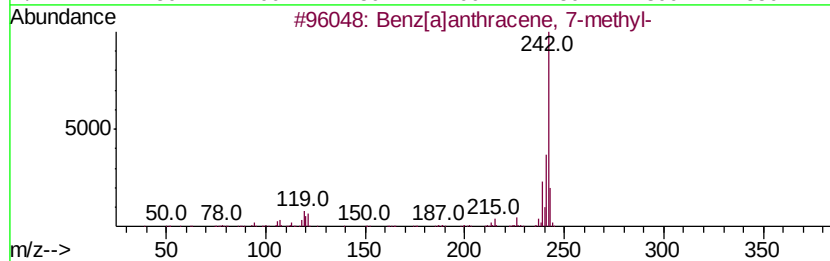
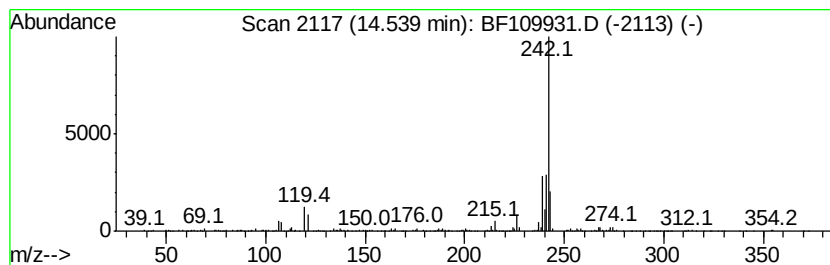
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OR-01-101618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.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 Benz[a]anthracene, 7-methyl- Concentration Rank 19

| R.T.      | EstConc                      | Area   | Relative to ISTD | R.T.         |      |
|-----------|------------------------------|--------|------------------|--------------|------|
| 14.54     | 2.29 ng                      | 340401 | Chrysene-d12     | 14.16        |      |
| Hit# of 5 | Tentative ID                 | MW     | MolForm          | CAS#         | Qual |
| 1         | Benz[alanthracene, 7-methyl- | 242    | C19H14           | 002541-69-7  | 95   |
| 2         | Triphenylene, 2-methyl-      | 242    | C19H14           | 001705-84-6  | 93   |
| 3         | Chrysene, 1-methyl-          | 242    | C19H14           | 003351-28-8  | 91   |
| 4         | 1H-Benz[flindene, 2-phenyl-  | 242    | C19H14           | 1000305-22-4 | 89   |
| 5         | Benz[a]anthracene, 8-methyl- | 242    | C19H14           | 002381-31-9  | 89   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
Acq On : 17 Oct 2018 20:21  
Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-101618-A

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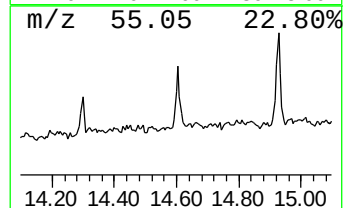
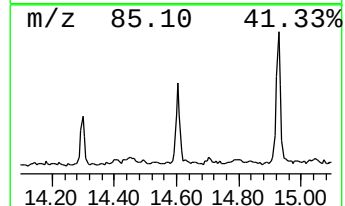
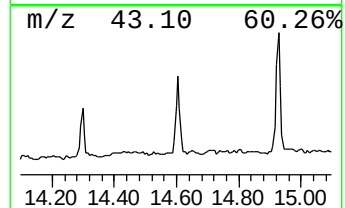
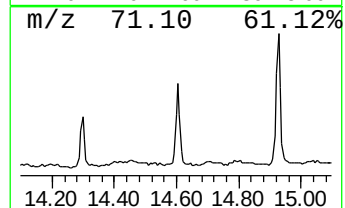
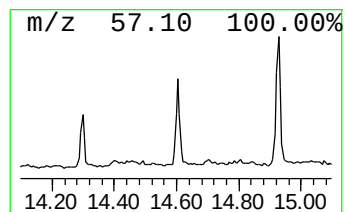
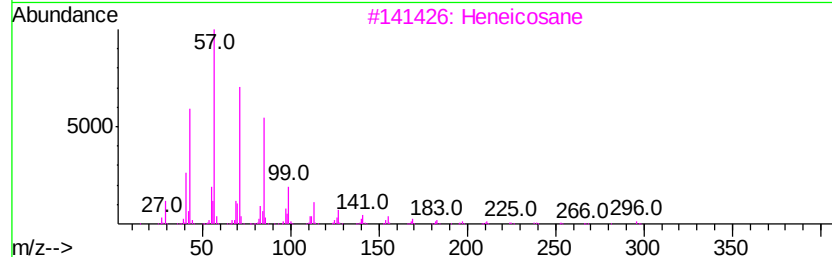
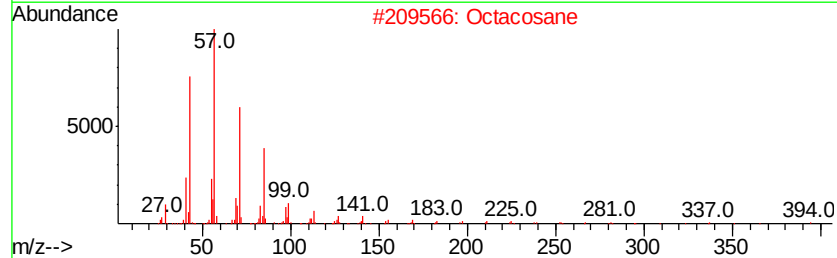
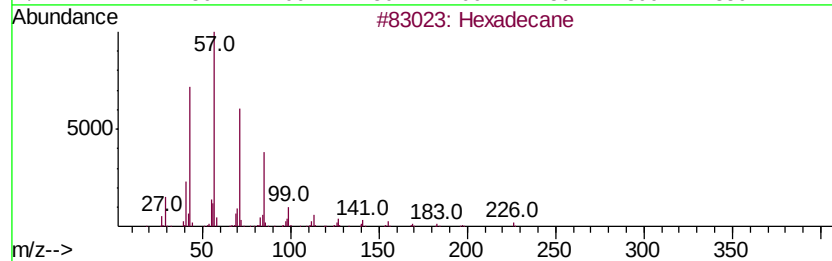
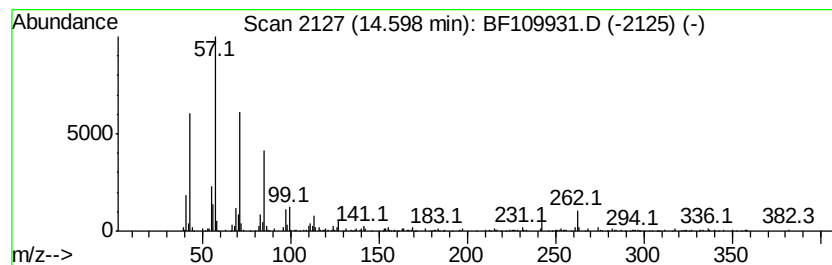
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Hexadecane Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.60 | 2.45 ng | 363553 | Chrysene-d12     | 14.16 |

| Hit# | of | 5 | Tentative ID    | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------|-----|---------|-------------|------|
| 1    |    |   | Hexadecane      | 226 | C16H34  | 000544-76-3 | 96   |
| 2    |    |   | Octacosane      | 394 | C28H58  | 000630-02-4 | 87   |
| 3    |    |   | Heneicosane     | 296 | C21H44  | 000629-94-7 | 87   |
| 4    |    |   | Hentriacontane  | 437 | C31H64  | 000630-04-6 | 83   |
| 5    |    |   | Hexatriacontane | 507 | C36H74  | 000630-06-8 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
Acq On : 17 Oct 2018 20:21  
Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

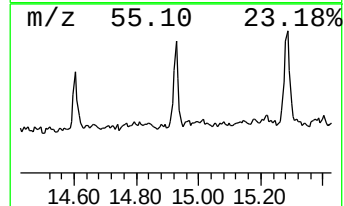
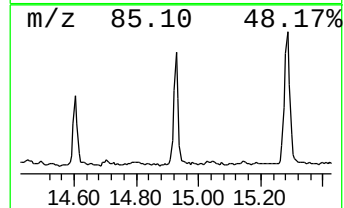
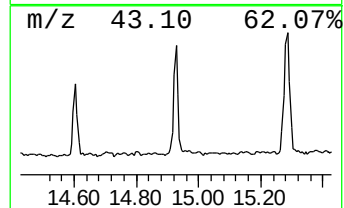
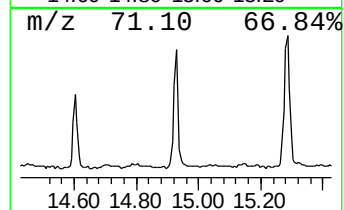
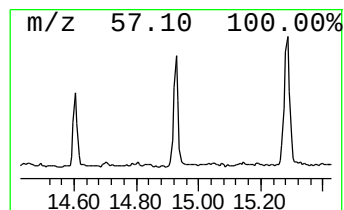
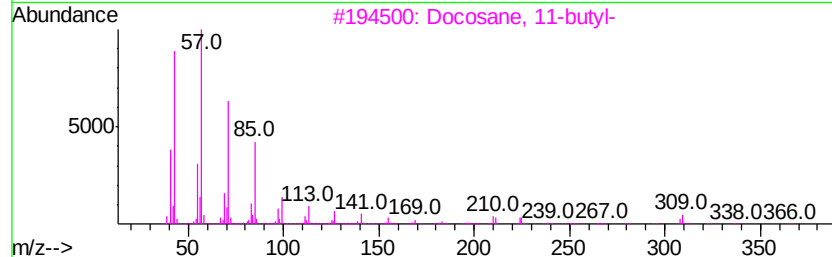
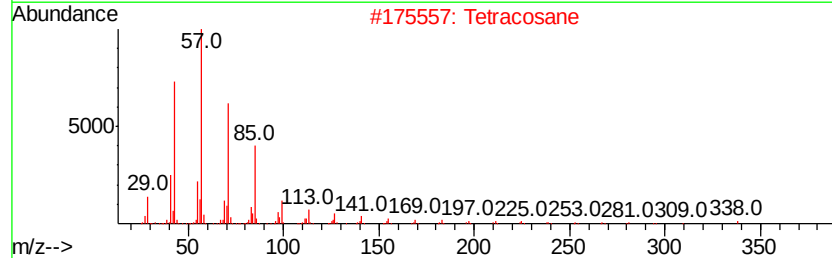
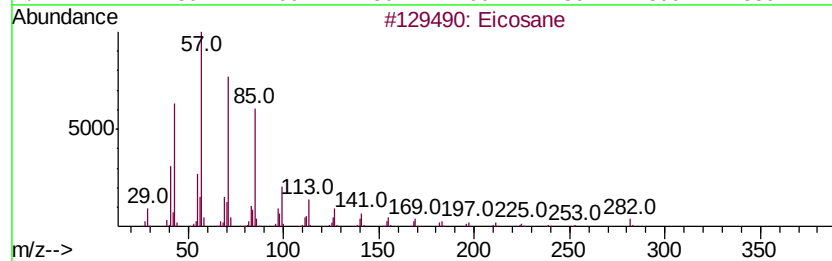
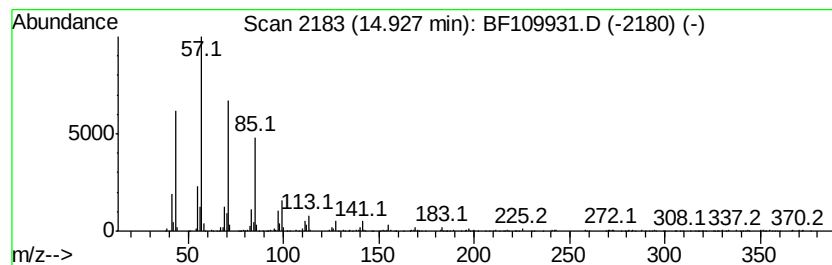
Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-101618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 17 Eicosane Concentration Rank 11

| R.T.    | EstConc               | Area         | Relative to ISTD | R.T.      |
|---------|-----------------------|--------------|------------------|-----------|
| 14.93   | 3.57 ng               | 475762       | Perylene-d12     | 15.68     |
| Hit# of | 5                     | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Eicosane              | 282 C20H42   | 000112-95-8      | 97        |
| 2       | Tetracosane           | 338 C24H50   | 000646-31-1      | 91        |
| 3       | Docosane, 11-butyl-   | 366 C26H54   | 013475-76-8      | 91        |
| 4       | Hexadecane, 1-iodo-   | 352 C16H33I  | 000544-77-4      | 90        |
| 5       | Heptadecane, 9-octyl- | 352 C25H52   | 007225-64-1      | 89        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
Acq On : 17 Oct 2018 20:21  
Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

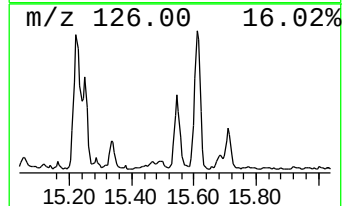
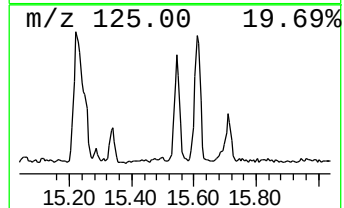
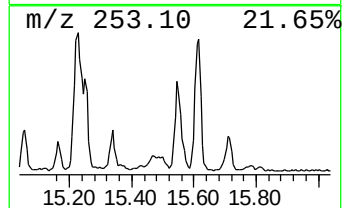
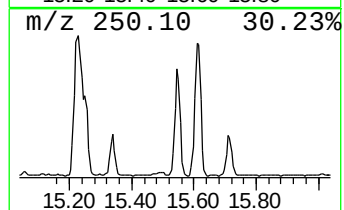
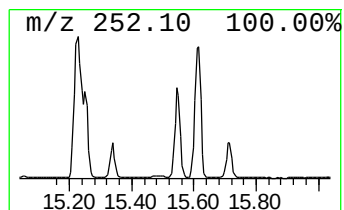
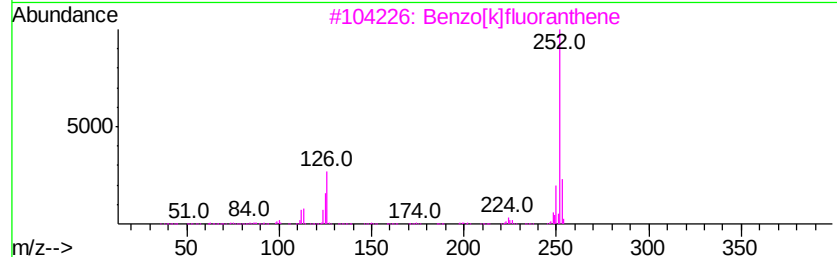
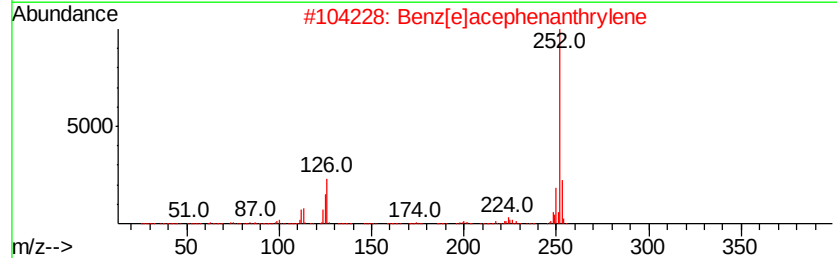
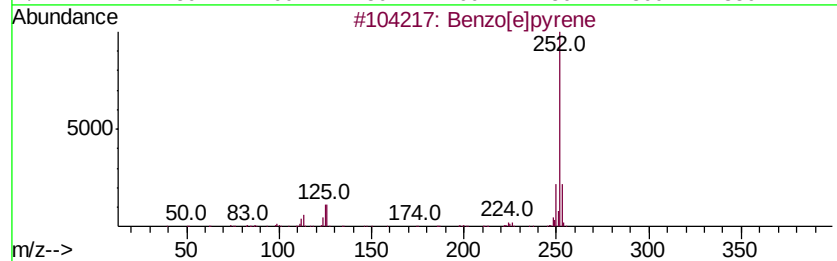
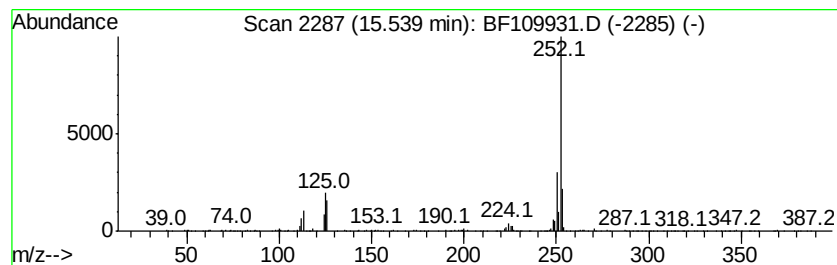
Instrument :  
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ClientSampleId :  
OR-01-101618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.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 18 Benzo[e]pyrene Concentration Rank 7

| R.T.    | EstConc | Area                      | Relative to ISTD | R.T.           |
|---------|---------|---------------------------|------------------|----------------|
| 15.54   | 5.29 ng | 704784                    | Perylene-d12     | 15.68          |
| Hit# of | 5       | Tentative ID              | MW MolForm       | CAS# Qual      |
| 1       |         | Benzo[e]pyrene            | 252 C20H12       | 000192-97-2 98 |
| 2       |         | Benzo[e]acephenanthrylene | 252 C20H12       | 000205-99-2 94 |
| 3       |         | Benzo[k]fluoranthene      | 252 C20H12       | 000207-08-9 93 |
| 4       |         | Benzo[a]pyrene            | 252 C20H12       | 000050-32-8 93 |
| 5       |         | Benzo[j]fluoranthene      | 252 C20H12       | 000205-82-3 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101718\  
Data File : BF109931.D  
Acq On : 17 Oct 2018 20:21  
Operator : JU/SJ  
Sample : J5200-09 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-01-101618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

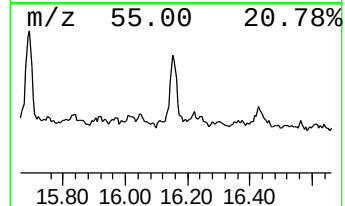
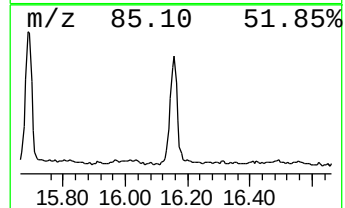
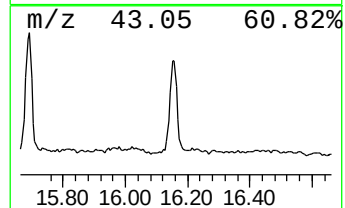
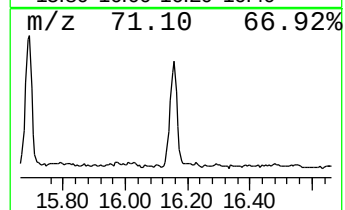
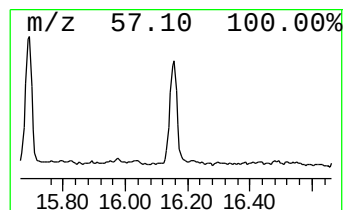
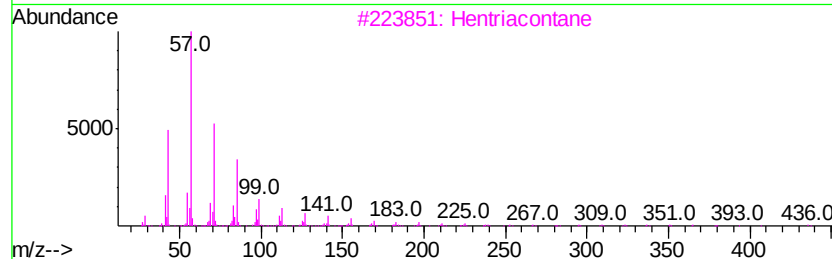
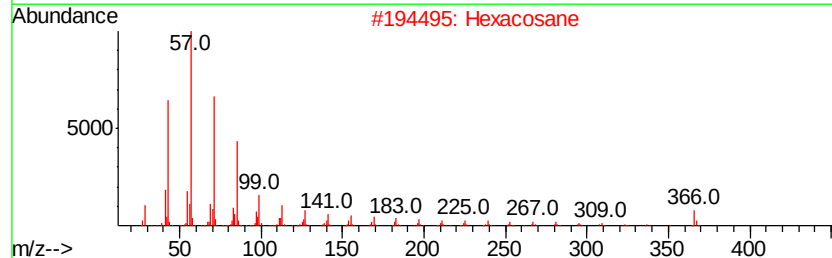
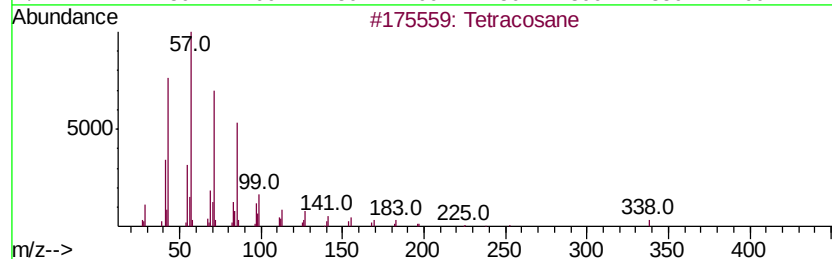
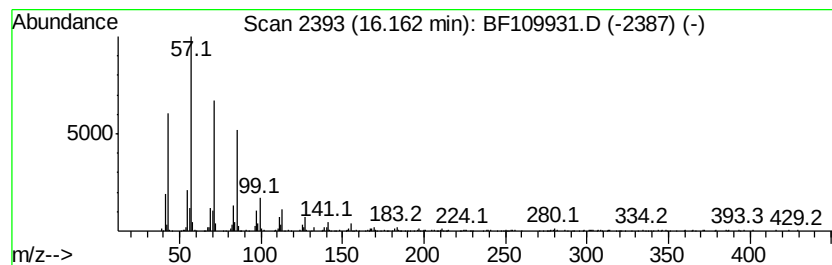
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 Tetracosane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.16 | 4.95 ng | 659676 | Perylene-d12     | 15.68 |

| Hit# | of | 5 | Tentative ID     | MW  | MolForm  | CAS#        | Qual |
|------|----|---|------------------|-----|----------|-------------|------|
| 1    |    |   | Tetracosane      | 338 | C24H50   | 000646-31-1 | 94   |
| 2    |    |   | Hexacosane       | 366 | C26H54   | 000630-01-3 | 93   |
| 3    |    |   | Hentriacontane   | 437 | C31H64   | 000630-04-6 | 90   |
| 4    |    |   | Heneicosane      | 296 | C21H44   | 000629-94-7 | 90   |
| 5    |    |   | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 89   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF101718\  
 Data File : BF109931.D  
 Acq On : 17 Oct 2018 20:21  
 Operator : JU/SJ  
 Sample : J5200-09 2X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-01-101618-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF101518.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 |
| Butane, 2-methoxy...  | 2.28  | 7.0 ng  |       | 485144   | 1                     | 6.97  | 1381660 | 20.0 |
| unknown6.74           | 6.74  | 26.2 ng |       | 1812480  | 1                     | 6.97  | 1381660 | 20.0 |
| Naphthalene, 1,7-...  | 9.67  | 2.7 ng  |       | 222766   | 3                     | 10.02 | 1642710 | 20.0 |
| Dodecane, 1-iodo-     | 10.43 | 3.1 ng  |       | 253246   | 3                     | 10.02 | 1642710 | 20.0 |
| 9H-Fluorene, 1-me...  | 11.11 | 2.3 ng  |       | 184599   | 4                     | 11.51 | 1604590 | 20.0 |
| Dibenzothiophene      | 11.40 | 4.0 ng  |       | 316909   | 4                     | 11.51 | 1604590 | 20.0 |
| Anthracene, 2-met...  | 12.01 | 6.0 ng  |       | 481328   | 4                     | 11.51 | 1604590 | 20.0 |
| Phenanthrene, 2-m...  | 12.03 | 5.7 ng  |       | 456029   | 4                     | 11.51 | 1604590 | 20.0 |
| 4H-Cyclopenta[def...  | 12.12 | 9.8 ng  |       | 785003   | 4                     | 11.51 | 1604590 | 20.0 |
| Naphthalene, 2-ph...  | 12.30 | 2.6 ng  |       | 205154   | 4                     | 11.51 | 1604590 | 20.0 |
| 9,10-Dimethylanthe... | 12.56 | 3.8 ng  |       | 305626   | 4                     | 11.51 | 1604590 | 20.0 |
| 11H-Benzo[b]fluorene  | 13.28 | 3.1 ng  |       | 457815   | 5                     | 14.16 | 2966710 | 20.0 |
| Octadecane            | 13.98 | 2.3 ng  |       | 340061   | 5                     | 14.16 | 2966710 | 20.0 |
| Benz[a]anthracene...  | 14.54 | 2.3 ng  |       | 340401   | 5                     | 14.16 | 2966710 | 20.0 |
| Hexadecane            | 14.60 | 2.5 ng  |       | 363553   | 5                     | 14.16 | 2966710 | 20.0 |
| Eicosane              | 14.93 | 3.6 ng  |       | 475762   | 6                     | 15.68 | 2666410 | 20.0 |
| Benzo[e]pyrene        | 15.54 | 5.3 ng  |       | 704784   | 6                     | 15.68 | 2666410 | 20.0 |
| Tetracosane           | 16.16 | 5.0 ng  |       | 659676   | 6                     | 15.68 | 2666410 | 20.0 |