

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\  
 Data File : BF100983.D  
 Acq On : 29 Nov 2017 17:38  
 Operator : SJ/JU  
 Sample : I6304-24 10X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-112817-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-BF110817.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         | 5.463       | 570           | 574         | 583          | rBB      | 153043         | 145571        | 6.39%           | 0.460%        |
| 2         | 6.475       | 743           | 746         | 755          | rVB      | 187466         | 157020        | 6.89%           | 0.496%        |
| 3         | 6.616       | 767           | 770         | 774          | rBV      | 206625         | 165841        | 7.28%           | 0.524%        |
| 4         | 6.851       | 806           | 810         | 814          | rBV      | 509262         | 403729        | 17.72%          | 1.276%        |
| 5         | 7.004       | 833           | 836         | 839          | rBV      | 158205         | 127553        | 5.60%           | 0.403%        |
| 6         | 7.410       | 902           | 905         | 908          | rBV      | 114337         | 88942         | 3.90%           | 0.281%        |
| 7         | 8.133       | 1025          | 1028        | 1030         | rBV      | 619291         | 544666        | 23.90%          | 1.722%        |
| 8         | 8.157       | 1030          | 1032        | 1035         | rVB      | 733140         | 519800        | 22.81%          | 1.643%        |
| 9         | 8.845       | 1146          | 1149        | 1153         | rBV      | 509609         | 407753        | 17.89%          | 1.289%        |
| 10        | 8.945       | 1161          | 1166        | 1169         | rBV      | 378254         | 292063        | 12.82%          | 0.923%        |
| 11        | 9.204       | 1207          | 1210        | 1214         | rVB      | 266753         | 205398        | 9.01%           | 0.649%        |
| 12        | 9.310       | 1225          | 1228        | 1232         | rVB      | 92511          | 73544         | 3.23%           | 0.232%        |
| 13        | 9.475       | 1251          | 1256        | 1260         | rBV      | 156517         | 208038        | 9.13%           | 0.658%        |
| 14        | 9.545       | 1264          | 1268        | 1271         | rBV      | 246731         | 245801        | 10.79%          | 0.777%        |
| 15        | 9.575       | 1271          | 1273        | 1275         | rVV      | 170002         | 131391        | 5.77%           | 0.415%        |
| 16        | 9.663       | 1283          | 1288        | 1297         | rVB      | 127323         | 137572        | 6.04%           | 0.435%        |
| 17        | 9.751       | 1300          | 1303        | 1306         | rBV2     | 190839         | 157999        | 6.93%           | 0.499%        |
| 18        | 9.892       | 1324          | 1327        | 1330         | rVV      | 626081         | 541291        | 23.75%          | 1.711%        |
| 19        | 9.922       | 1330          | 1332        | 1335         | rVB      | 491731         | 364296        | 15.99%          | 1.151%        |
| 20        | 10.092      | 1357          | 1361        | 1365         | rVV      | 425463         | 384522        | 16.87%          | 1.215%        |
| 21        | 10.127      | 1365          | 1367        | 1371         | rVB      | 90021          | 70858         | 3.11%           | 0.224%        |
| 22        | 10.204      | 1376          | 1380        | 1382         | rBV2     | 76314          | 83690         | 3.67%           | 0.265%        |
| 23        | 10.292      | 1391          | 1395        | 1397         | rBV2     | 51791          | 76830         | 3.37%           | 0.243%        |
| 24        | 10.439      | 1416          | 1420        | 1425         | rVV      | 758718         | 649767        | 28.51%          | 2.054%        |
| 25        | 10.504      | 1425          | 1431        | 1432         | rVV2     | 68285          | 95179         | 4.18%           | 0.301%        |
| 26        | 10.522      | 1432          | 1434        | 1436         | rVV3     | 99353          | 86839         | 3.81%           | 0.274%        |
| 27        | 10.592      | 1444          | 1446        | 1449         | rVV      | 153519         | 129333        | 5.68%           | 0.409%        |
| 28        | 10.674      | 1453          | 1460        | 1464         | rVV2     | 265862         | 291977        | 12.81%          | 0.923%        |
| 29        | 10.986      | 1506          | 1513        | 1515         | rBV2     | 151652         | 182455        | 8.01%           | 0.577%        |
| 30        | 11.010      | 1515          | 1517        | 1520         | rVV2     | 78990          | 77546         | 3.40%           | 0.245%        |
| 31        | 11.069      | 1524          | 1527        | 1530         | rVV      | 87595          | 75403         | 3.31%           | 0.238%        |
| 32        | 11.110      | 1530          | 1534        | 1536         | rVV3     | 68843          | 87038         | 3.82%           | 0.275%        |
| 33        | 11.133      | 1536          | 1538        | 1544         | rVV3     | 77081          | 101707        | 4.46%           | 0.321%        |
| 34        | 11.227      | 1550          | 1554        | 1557         | rVV2     | 73363          | 98109         | 4.31%           | 0.310%        |

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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-BF110817.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 11.274 | 1557 | 1562 | 1567 | rVB  | 179348  | 167579  | 7.35%   | 0.530% |
| 36 | 11.380 | 1576 | 1580 | 1582 | rBV  | 498762  | 511807  | 22.46%  | 1.618% |
| 37 | 11.410 | 1582 | 1585 | 1588 | rVV  | 2137516 | 1971920 | 86.53%  | 6.233% |
| 38 | 11.457 | 1588 | 1593 | 1596 | rVV  | 851535  | 704731  | 30.92%  | 2.227% |
| 39 | 11.486 | 1596 | 1598 | 1601 | rVV2 | 72180   | 77906   | 3.42%   | 0.246% |
| 40 | 11.610 | 1612 | 1619 | 1625 | rVV  | 173178  | 218395  | 9.58%   | 0.690% |
| 41 | 11.669 | 1625 | 1629 | 1632 | rVV3 | 65878   | 92416   | 4.06%   | 0.292% |
| 42 | 11.710 | 1633 | 1636 | 1640 | rVV3 | 77129   | 88418   | 3.88%   | 0.279% |
| 43 | 11.763 | 1640 | 1645 | 1647 | rVV  | 292258  | 243024  | 10.66%  | 0.768% |
| 44 | 11.880 | 1659 | 1665 | 1667 | rBV  | 340670  | 316649  | 13.90%  | 1.001% |
| 45 | 11.910 | 1667 | 1670 | 1673 | rVB  | 482580  | 393675  | 17.28%  | 1.244% |
| 46 | 11.957 | 1673 | 1678 | 1681 | rBV  | 235714  | 207293  | 9.10%   | 0.655% |
| 47 | 11.992 | 1681 | 1684 | 1687 | rVV2 | 556714  | 661256  | 29.02%  | 2.090% |
| 48 | 12.016 | 1687 | 1688 | 1692 | rVB  | 258107  | 134027  | 5.88%   | 0.424% |
| 49 | 12.174 | 1711 | 1715 | 1718 | rVV  | 226850  | 202306  | 8.88%   | 0.639% |
| 50 | 12.321 | 1735 | 1740 | 1743 | rBV2 | 77126   | 84656   | 3.71%   | 0.268% |
| 51 | 12.427 | 1752 | 1758 | 1759 | rBV  | 224053  | 220674  | 9.68%   | 0.697% |
| 52 | 12.451 | 1759 | 1762 | 1764 | rVV  | 1047808 | 974071  | 42.74%  | 3.079% |
| 53 | 12.468 | 1764 | 1765 | 1770 | rVV3 | 698885  | 593973  | 26.06%  | 1.877% |
| 54 | 12.521 | 1770 | 1774 | 1778 | rVV3 | 93062   | 133164  | 5.84%   | 0.421% |
| 55 | 12.557 | 1778 | 1780 | 1783 | rVB  | 103084  | 83756   | 3.68%   | 0.265% |
| 56 | 12.604 | 1783 | 1788 | 1791 | rBV  | 2023422 | 2047592 | 89.85%  | 6.472% |
| 57 | 12.745 | 1805 | 1812 | 1815 | rBV3 | 99385   | 157364  | 6.91%   | 0.497% |
| 58 | 12.833 | 1820 | 1827 | 1831 | rBV2 | 1841036 | 2278859 | 100.00% | 7.203% |
| 59 | 12.868 | 1831 | 1833 | 1838 | rVB2 | 129702  | 154927  | 6.80%   | 0.490% |
| 60 | 12.939 | 1838 | 1845 | 1847 | rBV  | 152253  | 206113  | 9.04%   | 0.651% |
| 61 | 12.957 | 1847 | 1848 | 1850 | rVV  | 165986  | 115248  | 5.06%   | 0.364% |
| 62 | 12.980 | 1850 | 1852 | 1855 | rVB  | 118655  | 110495  | 4.85%   | 0.349% |
| 63 | 13.039 | 1855 | 1862 | 1866 | rBV2 | 192034  | 327079  | 14.35%  | 1.034% |
| 64 | 13.127 | 1873 | 1877 | 1878 | rBV3 | 139866  | 163058  | 7.16%   | 0.515% |
| 65 | 13.151 | 1878 | 1881 | 1884 | rVB  | 507800  | 472723  | 20.74%  | 1.494% |
| 66 | 13.215 | 1889 | 1892 | 1895 | rVV  | 421179  | 371413  | 16.30%  | 1.174% |
| 67 | 13.257 | 1895 | 1899 | 1902 | rVV2 | 263468  | 280373  | 12.30%  | 0.886% |
| 68 | 13.345 | 1911 | 1914 | 1917 | rVV  | 134007  | 118477  | 5.20%   | 0.374% |
| 69 | 13.380 | 1917 | 1920 | 1923 | rVV  | 154879  | 148611  | 6.52%   | 0.470% |
| 70 | 13.551 | 1947 | 1949 | 1951 | rVV  | 90793   | 102871  | 4.51%   | 0.325% |
| 71 | 13.633 | 1960 | 1963 | 1965 | rVV  | 96449   | 114210  | 5.01%   | 0.361% |

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Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 13.663 | 1965 | 1968 | 1972 | rVV2 | 124787  | 163014  | 7.15%  | 0.515% |
| 73  | 13.768 | 1981 | 1986 | 1989 | rVV2 | 157738  | 223948  | 9.83%  | 0.708% |
| 74  | 13.798 | 1989 | 1991 | 1993 | rVV  | 210340  | 181665  | 7.97%  | 0.574% |
| 75  | 13.821 | 1993 | 1995 | 2001 | rVV3 | 161465  | 259826  | 11.40% | 0.821% |
| 76  | 13.868 | 2001 | 2003 | 2006 | rVB  | 78028   | 73490   | 3.22%  | 0.232% |
| 77  | 14.015 | 2021 | 2028 | 2032 | rBV3 | 1127714 | 1752819 | 76.92% | 5.540% |
| 78  | 14.051 | 2032 | 2034 | 2040 | rVV  | 912782  | 862201  | 37.83% | 2.725% |
| 79  | 14.127 | 2045 | 2047 | 2051 | rVV  | 252608  | 260705  | 11.44% | 0.824% |
| 80  | 14.168 | 2051 | 2054 | 2057 | rVV3 | 109335  | 151557  | 6.65%  | 0.479% |
| 81  | 14.210 | 2059 | 2061 | 2064 | rVV  | 91470   | 95508   | 4.19%  | 0.302% |
| 82  | 14.245 | 2064 | 2067 | 2070 | rVV3 | 110671  | 153828  | 6.75%  | 0.486% |
| 83  | 14.368 | 2086 | 2088 | 2090 | rVV2 | 76124   | 71469   | 3.14%  | 0.226% |
| 84  | 14.410 | 2090 | 2095 | 2097 | rVV  | 248212  | 288911  | 12.68% | 0.913% |
| 85  | 14.439 | 2097 | 2100 | 2103 | rVB2 | 122813  | 111483  | 4.89%  | 0.352% |
| 86  | 14.504 | 2109 | 2111 | 2114 | rVB  | 115768  | 87952   | 3.86%  | 0.278% |
| 87  | 14.533 | 2114 | 2116 | 2118 | rVV  | 126724  | 111141  | 4.88%  | 0.351% |
| 88  | 14.557 | 2118 | 2120 | 2123 | rVV2 | 152085  | 121059  | 5.31%  | 0.383% |
| 89  | 14.598 | 2123 | 2127 | 2133 | rVB4 | 88096   | 138495  | 6.08%  | 0.438% |
| 90  | 14.904 | 2176 | 2179 | 2183 | rBV  | 70326   | 87184   | 3.83%  | 0.276% |
| 91  | 15.068 | 2202 | 2207 | 2210 | rBV  | 550176  | 919982  | 40.37% | 2.908% |
| 92  | 15.174 | 2222 | 2225 | 2229 | rVB  | 172771  | 168799  | 7.41%  | 0.534% |
| 93  | 15.374 | 2254 | 2259 | 2264 | rVB  | 329775  | 448401  | 19.68% | 1.417% |
| 94  | 15.439 | 2265 | 2270 | 2274 | rBV  | 601341  | 711224  | 31.21% | 2.248% |
| 95  | 15.498 | 2275 | 2280 | 2283 | rVV  | 255693  | 351112  | 15.41% | 1.110% |
| 96  | 15.527 | 2283 | 2285 | 2291 | rVB2 | 166903  | 225836  | 9.91%  | 0.714% |
| 97  | 16.980 | 2526 | 2532 | 2540 | rVB2 | 217340  | 434641  | 19.07% | 1.374% |
| 98  | 17.151 | 2557 | 2561 | 2565 | rVB2 | 46933   | 72585   | 3.19%  | 0.229% |
| 99  | 17.427 | 2601 | 2608 | 2618 | rVB  | 145794  | 341138  | 14.97% | 1.078% |
| 100 | 17.662 | 2643 | 2648 | 2655 | rBV  | 53480   | 108337  | 4.75%  | 0.342% |

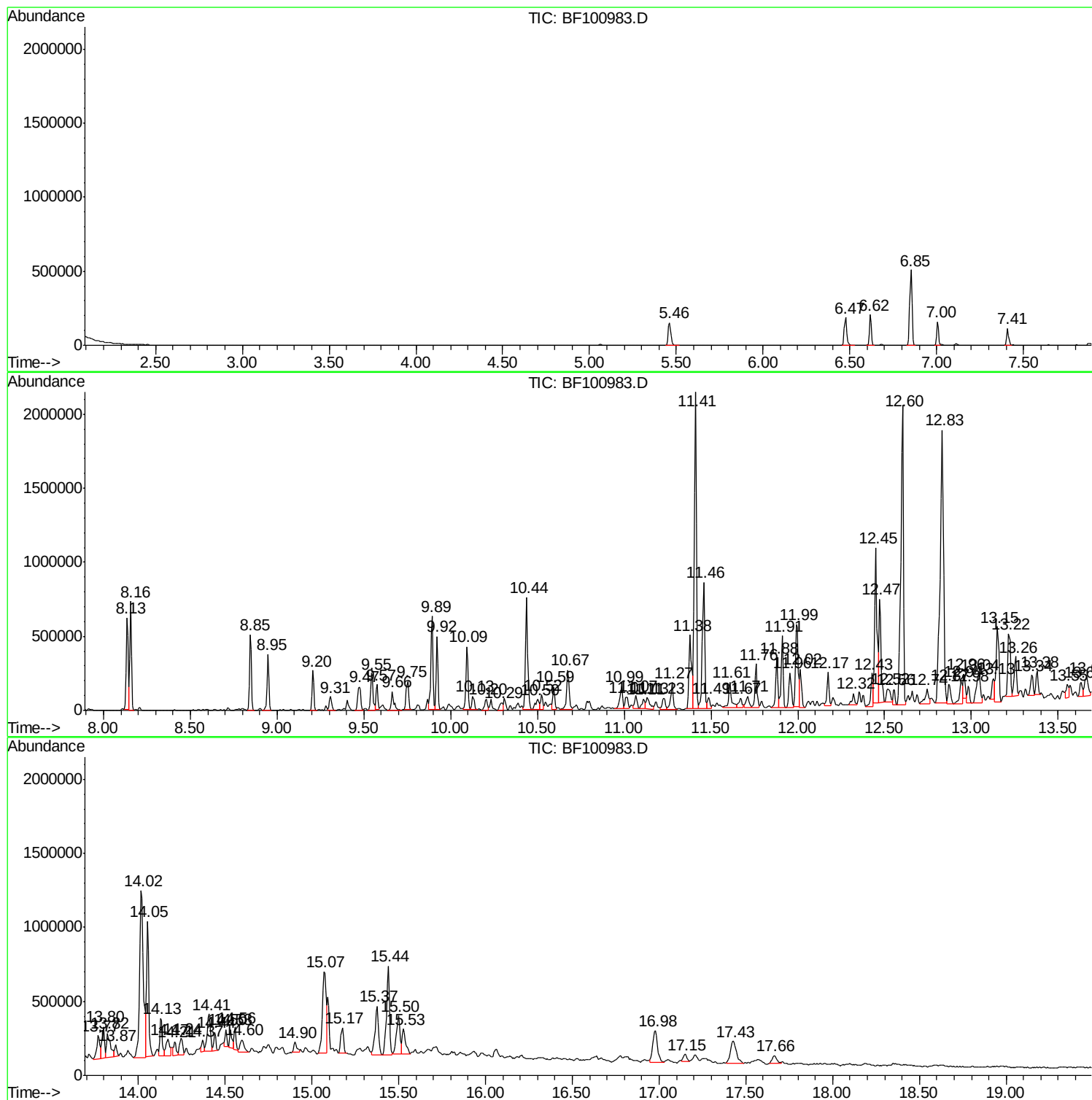
Sum of corrected areas: 31638940

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.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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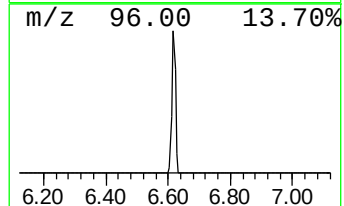
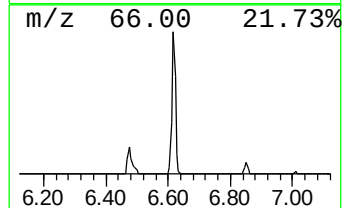
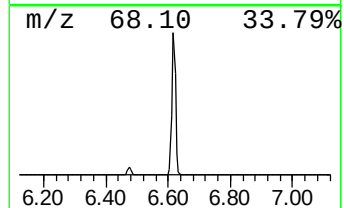
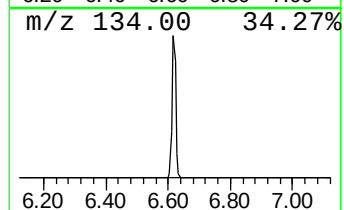
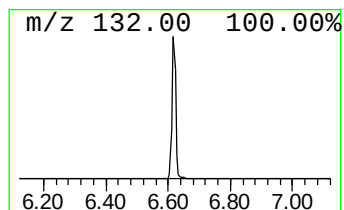
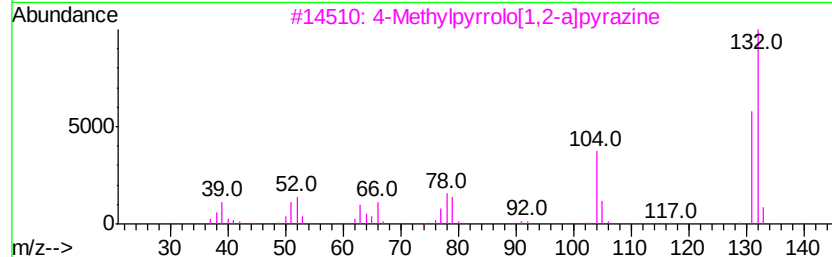
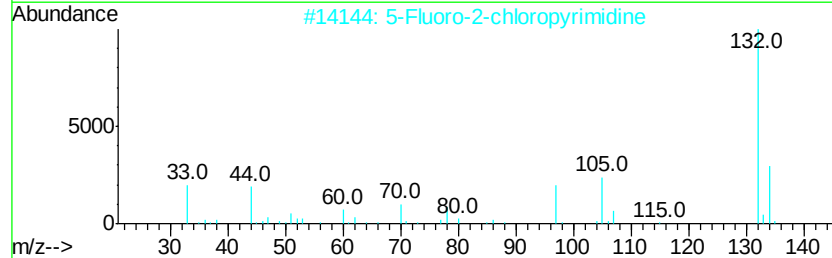
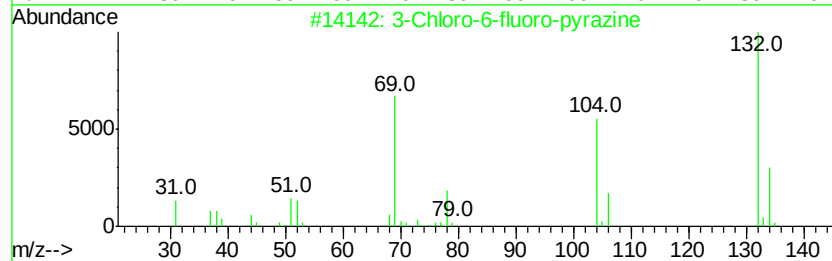
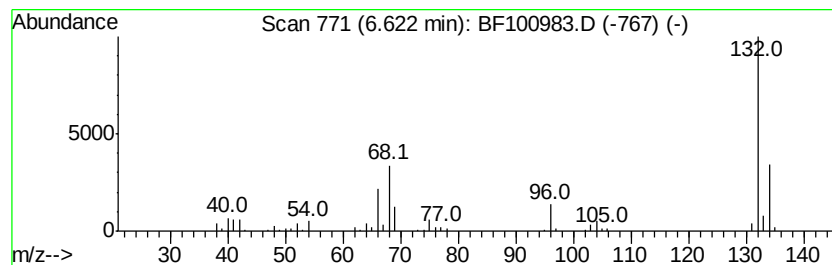
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.62 Concentration Rank 12

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.62 | 8.22 ng | 165841 | 1,4-Dichlorobenzene-d4 | 6.85 |

| 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  | 9    |
| 3    |    | 4-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-60-2  | 9    |
| 4    |    | 1,3,5-Trifluorobenzene           | 132 | C6H3F3    | 000372-38-3  | 9    |
| 5    |    | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4    | 019485-35-9  | 9    |



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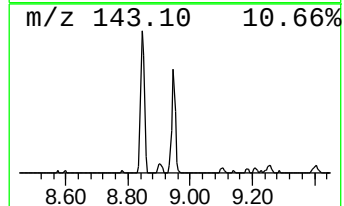
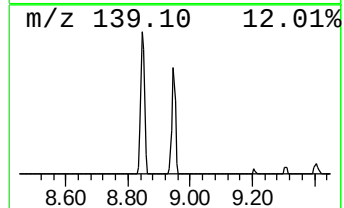
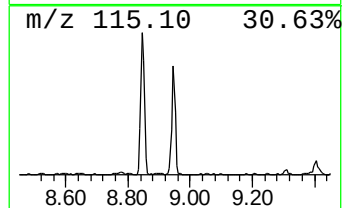
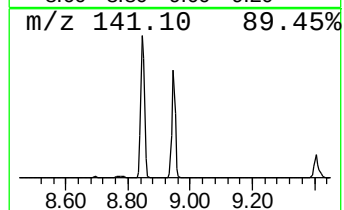
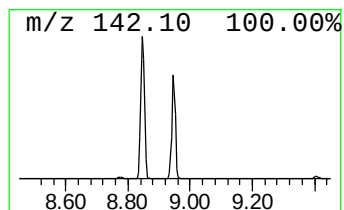
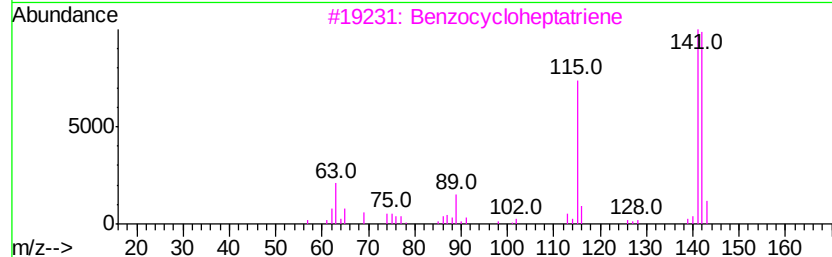
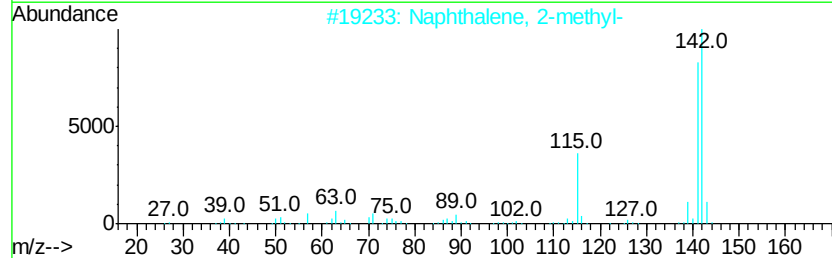
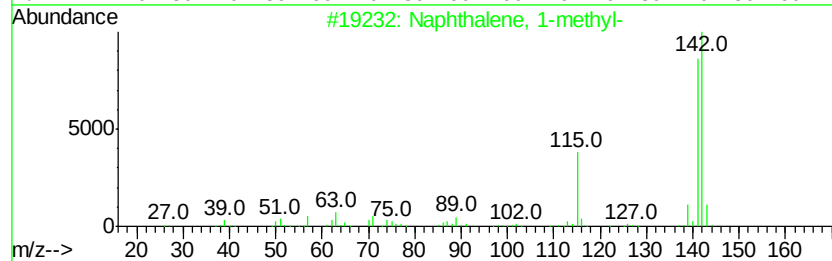
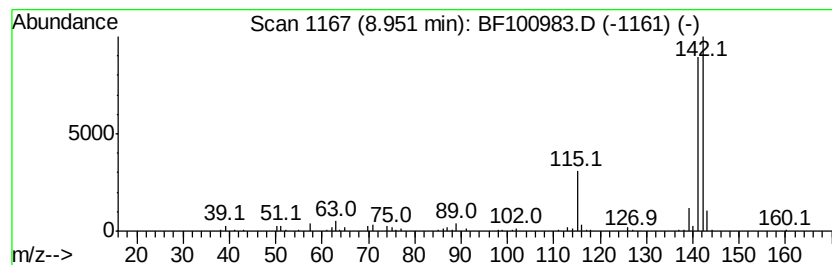
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 7

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.           |
|---------|----------|-------------------------------------|------------------|----------------|
| 8.95    | 10.72 ng | 292063                              | Naphthalene-d8   | 8.13           |
| Hit# of | 5        | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |          | Naphthalene, 1-methyl-              | 142 C11H10       | 000090-12-0 96 |
| 2       |          | Naphthalene, 2-methyl-              | 142 C11H10       | 000091-57-6 96 |
| 3       |          | Benzocycloheptatriene               | 142 C11H10       | 000264-09-5 94 |
| 4       |          | 1,4-Methanonaphthalene, 1,4-dihy... | 142 C11H10       | 004453-90-1 91 |
| 5       |          | 1H-Indene, 1-ethylidene-            | 142 C11H10       | 002471-83-2 86 |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

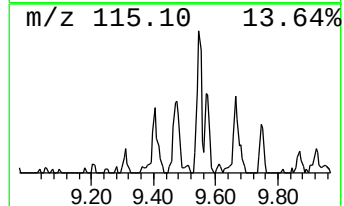
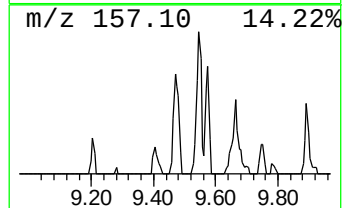
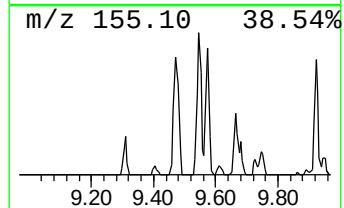
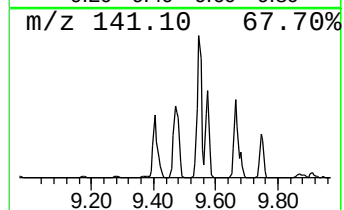
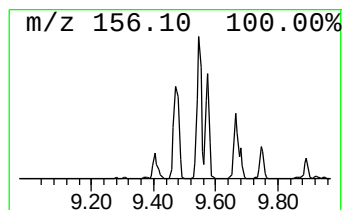
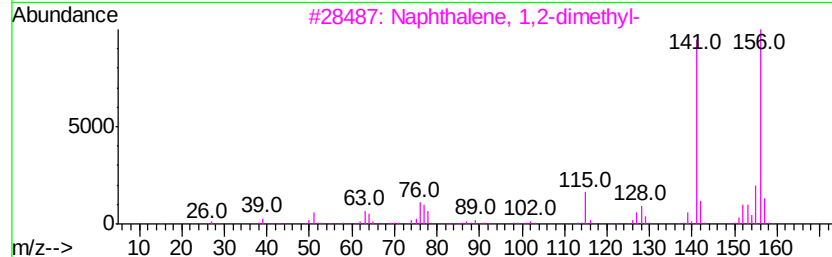
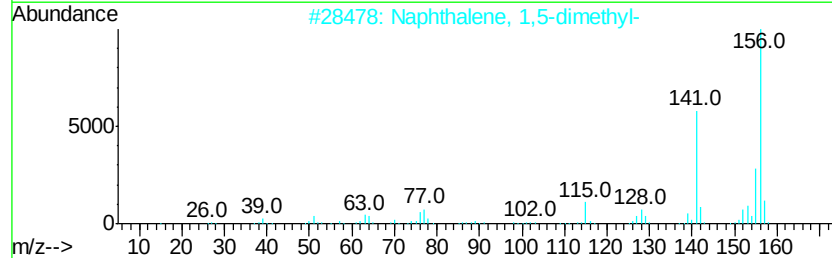
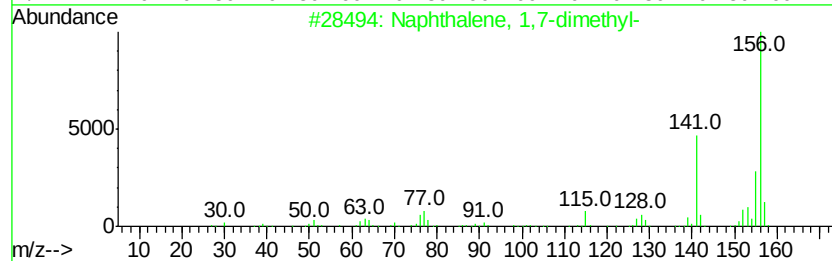
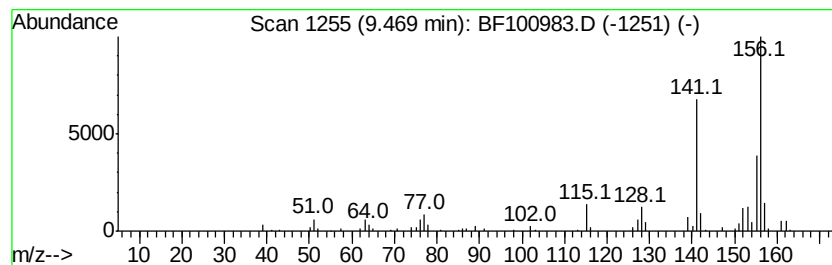
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Naphthalene, 1,7-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.47 | 7.69 ng | 208038 | Acenaphthene-d10 | 9.89 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 96   |
| 2    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 96   |
| 3    |    | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 96   |
| 4    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 5    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

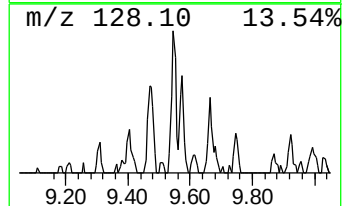
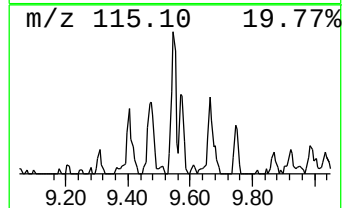
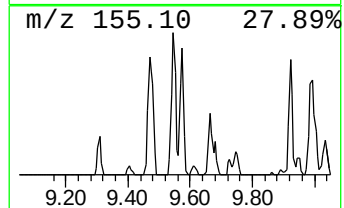
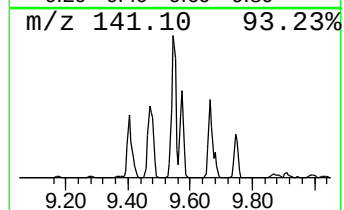
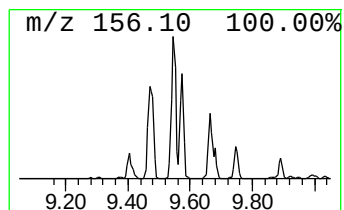
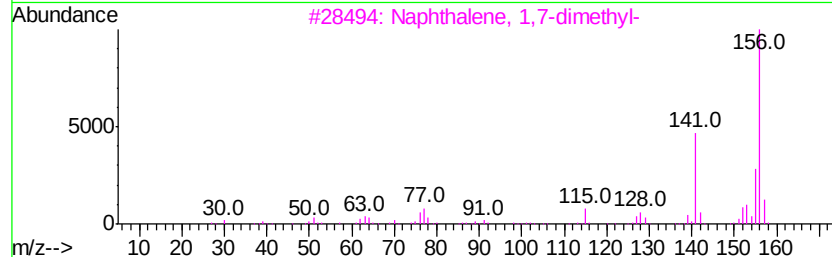
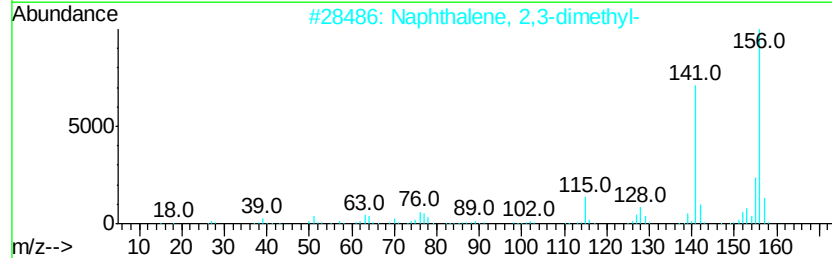
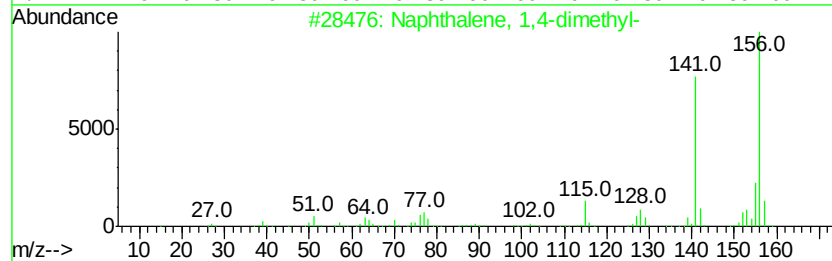
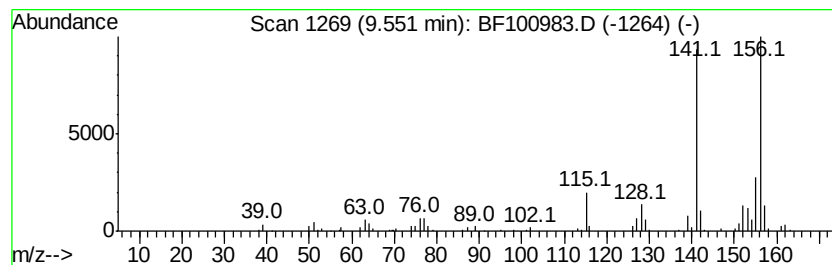
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Naphthalene, 1,4-dimethyl- Concentration Rank 10

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.55 | 9.08 ng | 245801 | Acenaphthene-d10 | 9.89 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 97   |
| 2    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 3    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 4    |    | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |
| 5    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

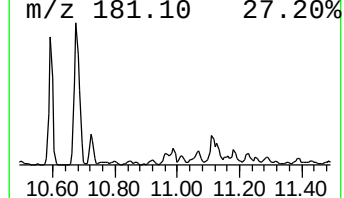
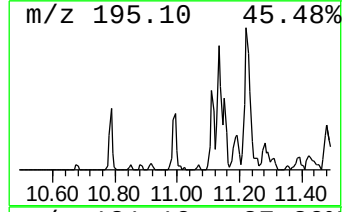
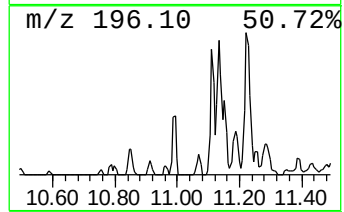
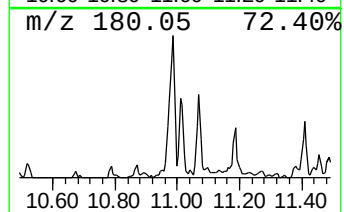
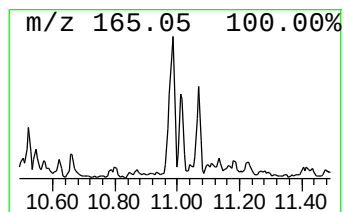
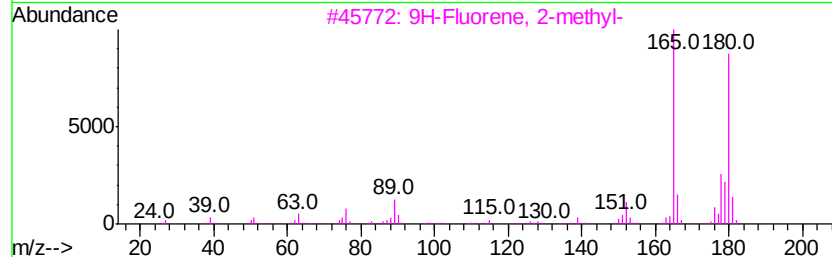
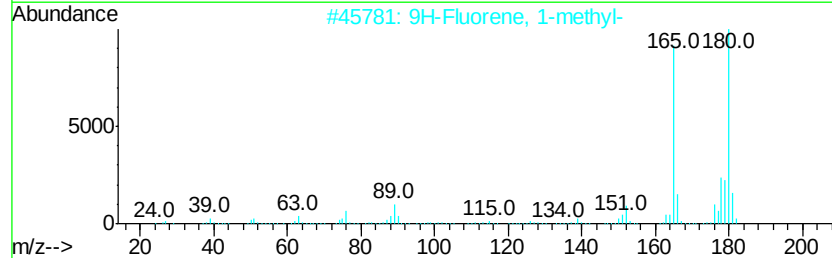
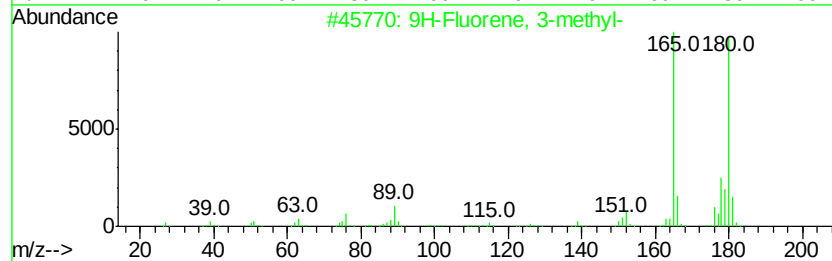
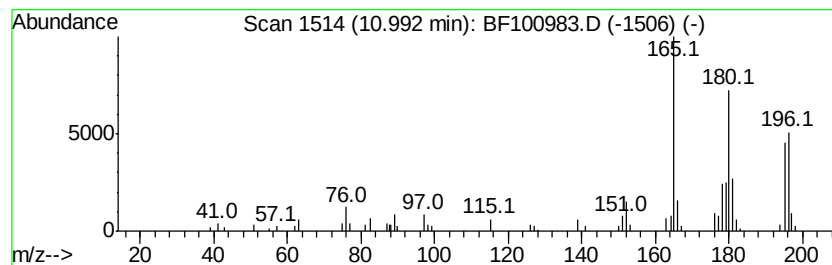
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 9H-Fluorene, 3-methyl- Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.99 | 7.13 ng | 182455 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | 9H-Fluorene, 3-methyl-    | 180 | C14H12  | 002523-39-9 | 96   |
| 2    |    | 9H-Fluorene, 1-methyl-    | 180 | C14H12  | 001730-37-6 | 96   |
| 3    |    | 9H-Fluorene, 2-methyl-    | 180 | C14H12  | 001430-97-3 | 96   |
| 4    |    | 4a,9a-Methano-9H-fluorene | 180 | C14H12  | 019540-84-2 | 86   |
| 5    |    | 9H-Fluorene, 4-methyl-    | 180 | C14H12  | 001556-99-6 | 76   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

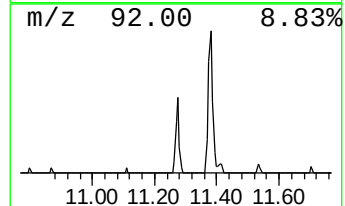
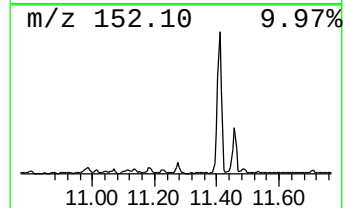
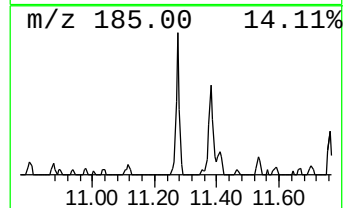
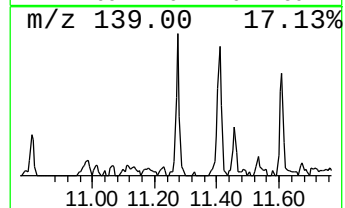
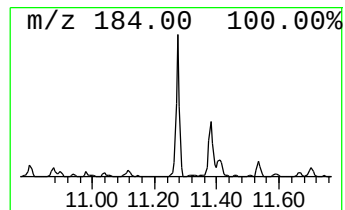
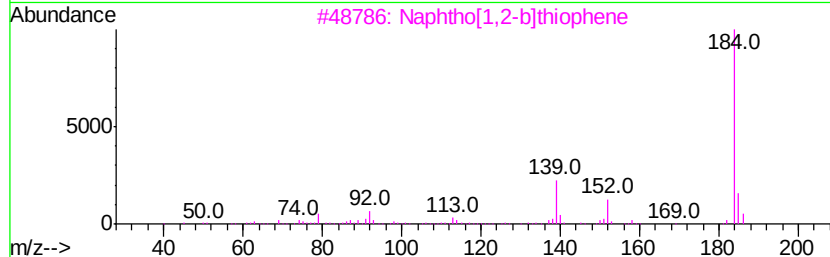
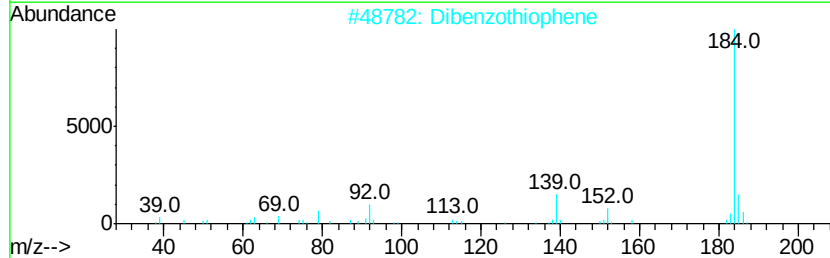
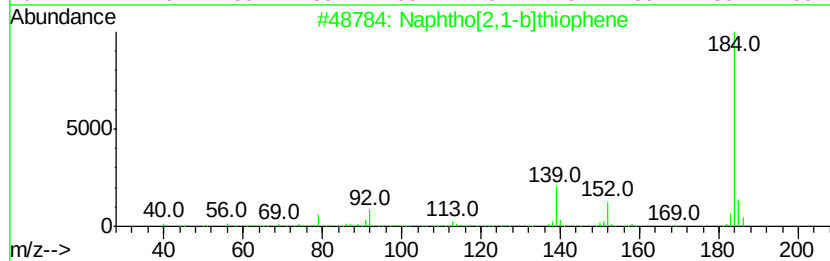
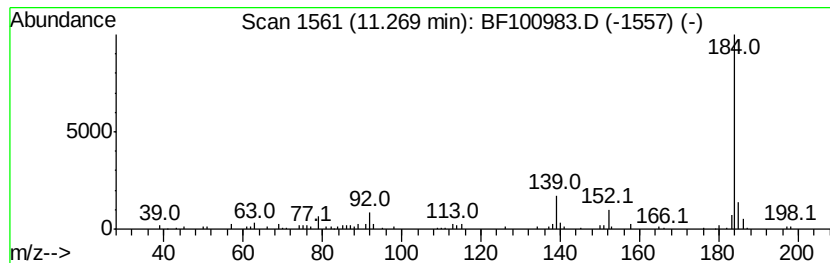
Instrument :  
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ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Naphtho[2,1-b]thiophene Concentration Rank 17

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 11.27     | 6.55 ng                 | 167579 | Phenanthrene-d10 | 11.38       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Naphtho[2,1-b]thiophene | 184    | C12H8S           | 000233-02-3 | 95   |
| 2         | Dibenzothiophene        | 184    | C12H8S           | 000132-65-0 | 95   |
| 3         | Naphtho[1,2-b]thiophene | 184    | C12H8S           | 000234-41-3 | 93   |
| 4         | Naphtho[2,3-b]thiophene | 184    | C12H8S           | 000268-77-9 | 93   |
| 5         | Azuleno(2,1-b)thiophene | 184    | C12H8S           | 000248-13-5 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

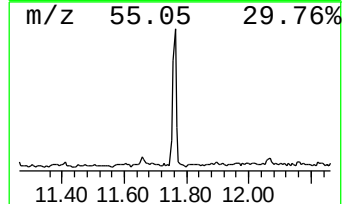
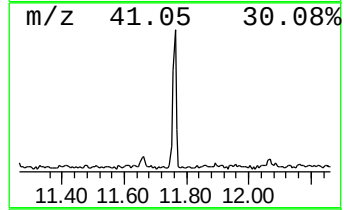
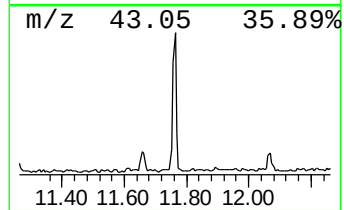
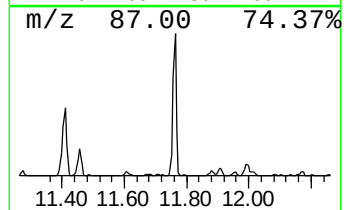
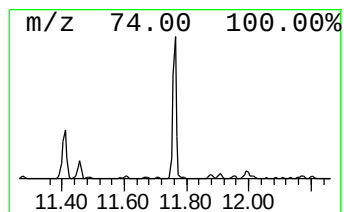
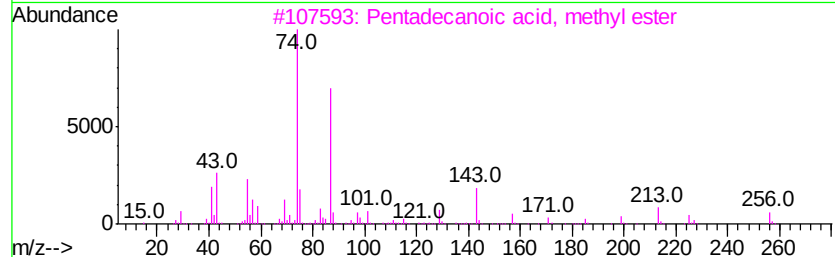
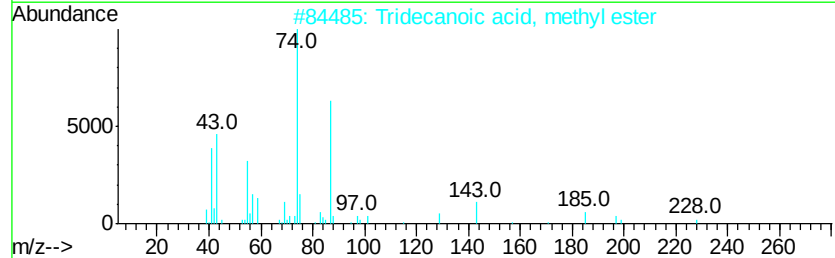
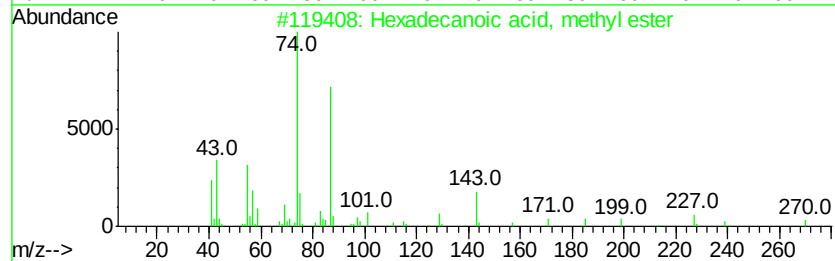
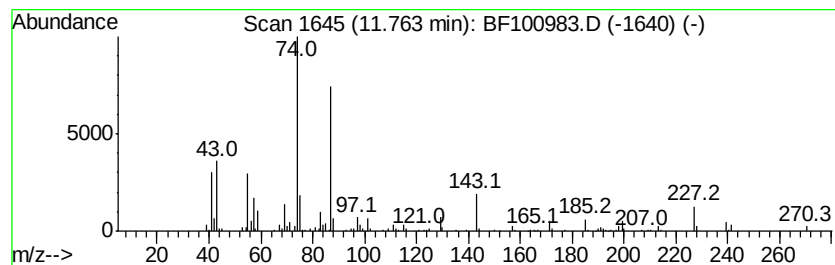
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Hexadecanoic acid, methyl e... Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.76 | 9.50 ng | 243024 | Phenanthrene-d10 | 11.38 |

| Hit# of 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|-----------|-------------------------------------|-----|----------|-------------|------|
| 1         | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2         | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 89   |
| 3         | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1 | 86   |
| 4         | Hexadecanoic acid, 15-methyl-, m... | 284 | C18H36O2 | 006929-04-0 | 83   |
| 5         | Undecanoic acid, 10-methyl-, met... | 214 | C13H26O2 | 005129-56-6 | 72   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

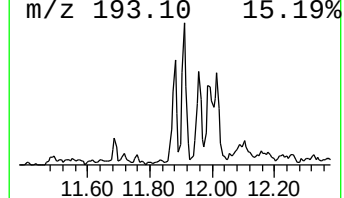
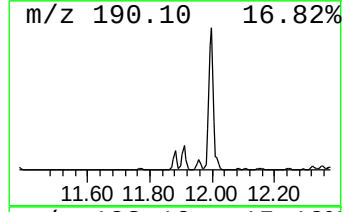
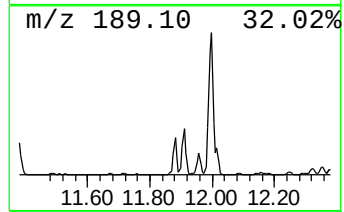
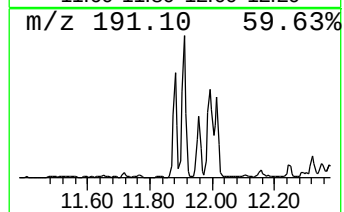
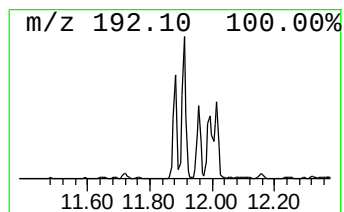
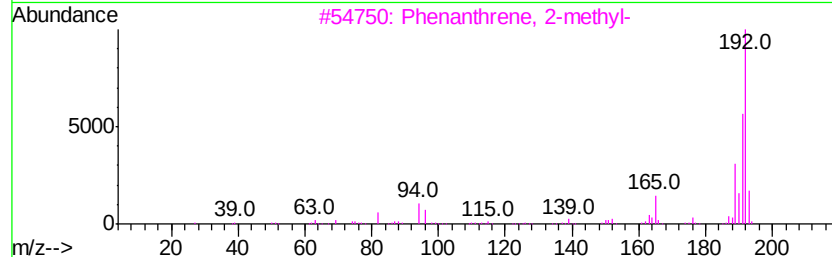
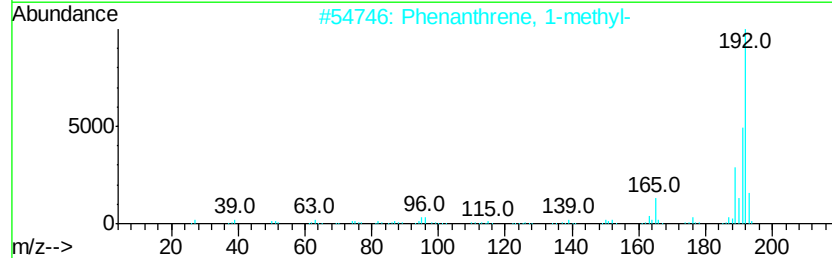
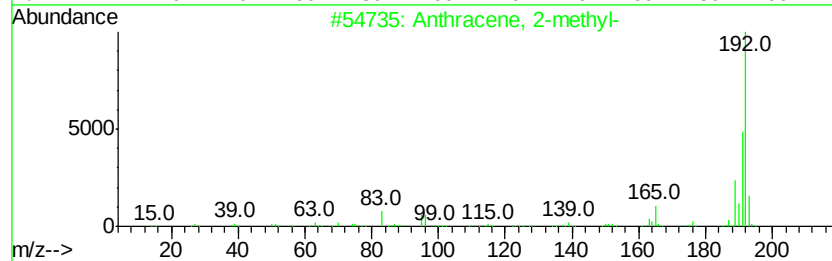
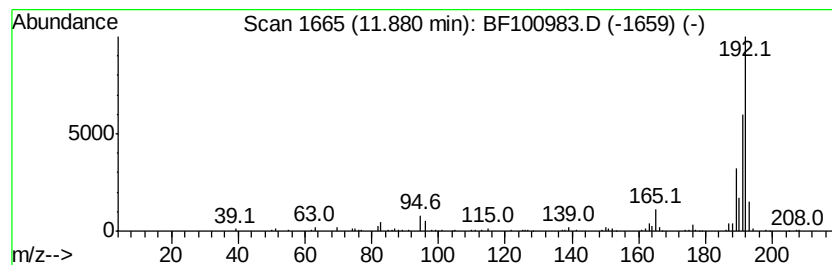
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TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.88 | 12.37 ng | 316649 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 96   |
| 2    |    | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 95   |
| 3    |    | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 95   |
| 4    |    | Anthracene, 1-methyl-                 | 192 | C15H12  | 000610-48-0 | 94   |
| 5    |    | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 93   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

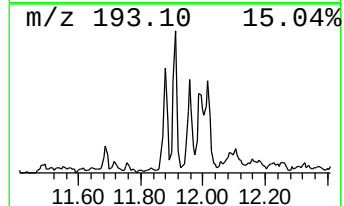
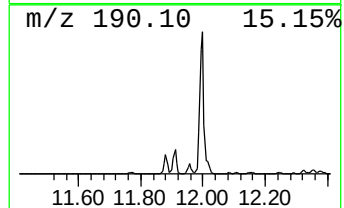
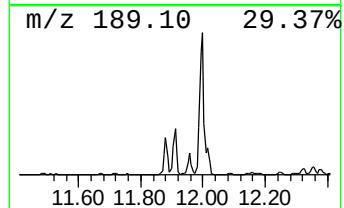
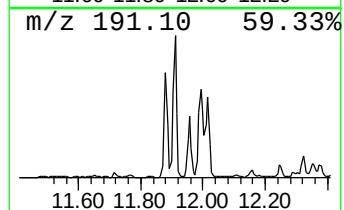
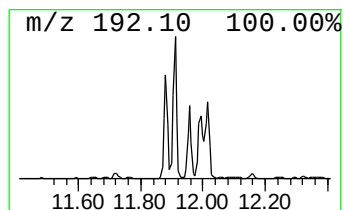
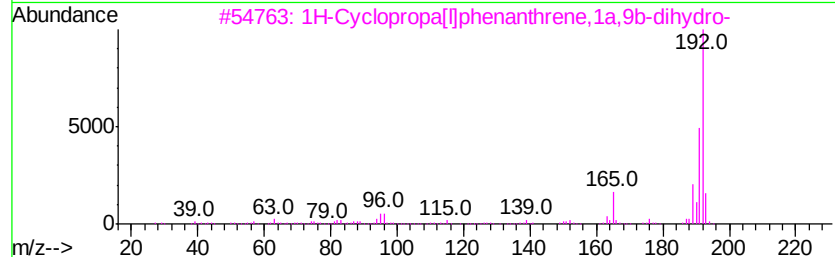
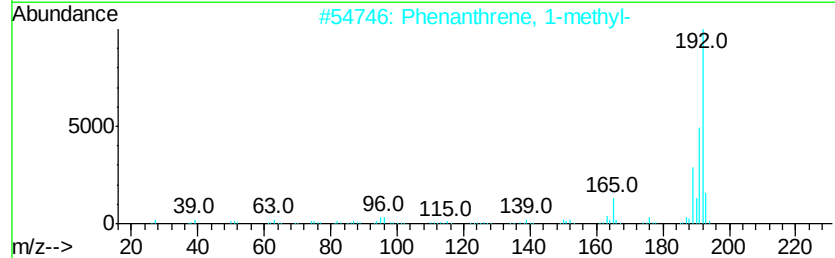
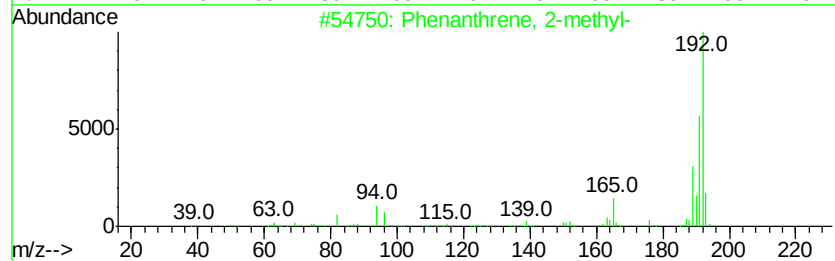
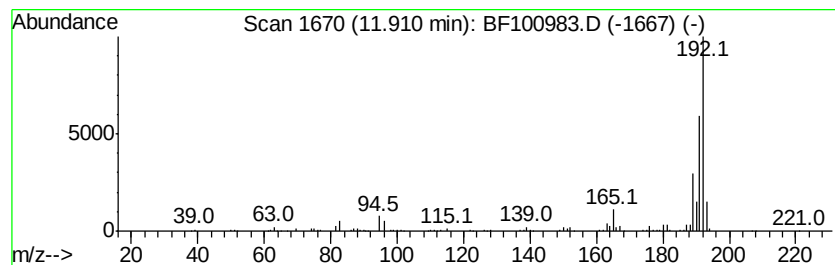
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.91 | 15.38 ng | 393675 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                            | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2-methyl-                 | 192 | C15H12  | 002531-84-2 | 98   |
| 2    |    | Phenanthrene, 1-methyl-                 | 192 | C15H12  | 000832-69-9 | 96   |
| 3    |    | 1H-Cyclopropa[1,1b]phenanthrene, 1a,... | 192 | C15H12  | 000949-41-7 | 95   |
| 4    |    | Anthracene, 1-methyl-                   | 192 | C15H12  | 000610-48-0 | 95   |
| 5    |    | Anthracene, 9-methyl-                   | 192 | C15H12  | 000779-02-2 | 95   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

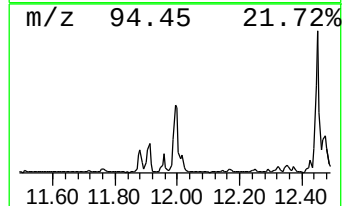
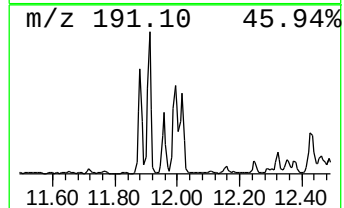
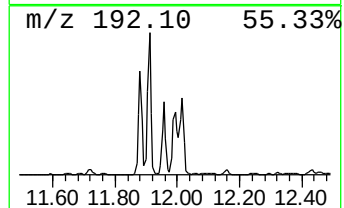
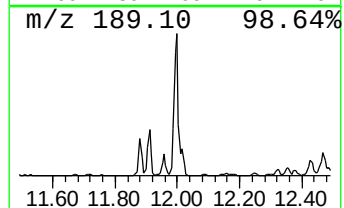
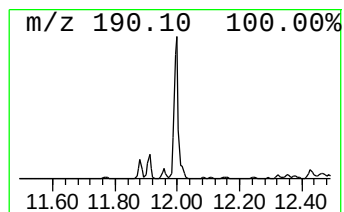
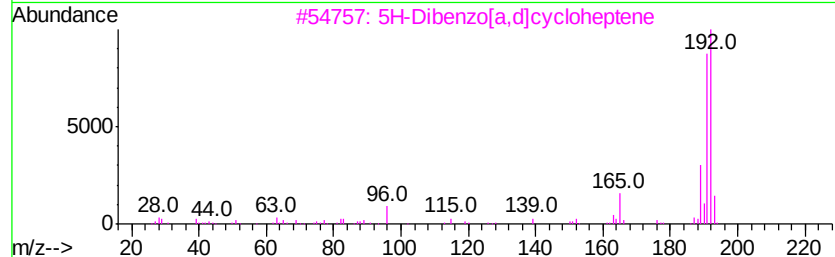
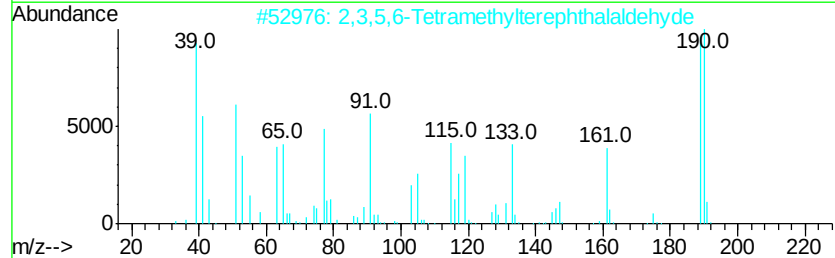
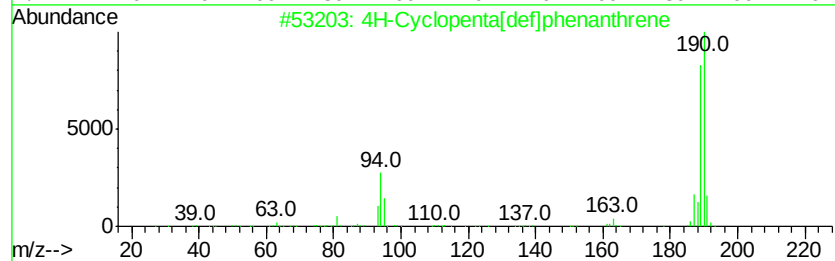
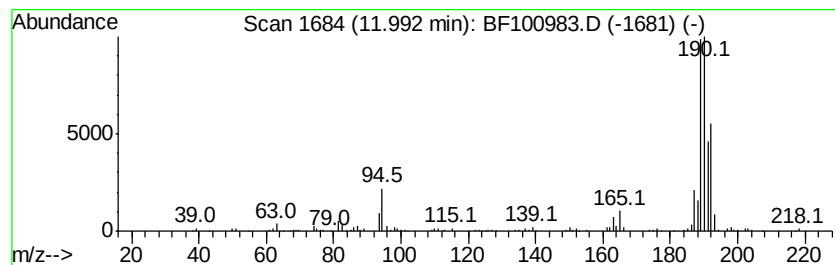
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.99 | 25.84 ng | 661256 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10   | 000203-64-5 | 64   |
| 2    |    | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 43   |
| 3    |    | 5H-Dibenzo[a,d]cycloheptene         | 192 | C15H12   | 000256-81-5 | 25   |
| 4    |    | Propyne, 1,3-diphenyl-              | 192 | C15H12   | 004980-70-5 | 18   |
| 5    |    | Phenanthrene, 2-methyl-             | 192 | C15H12   | 002531-84-2 | 15   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

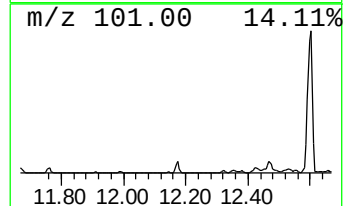
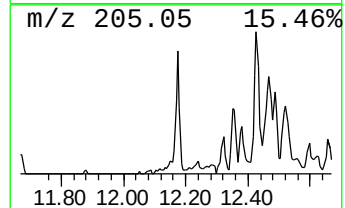
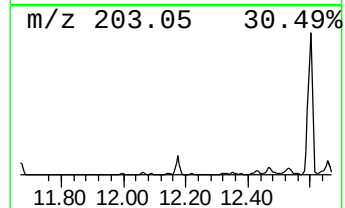
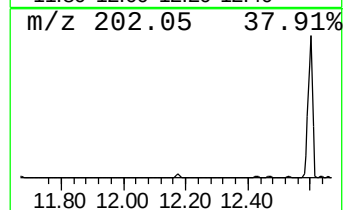
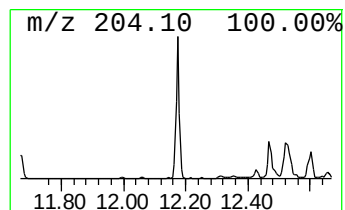
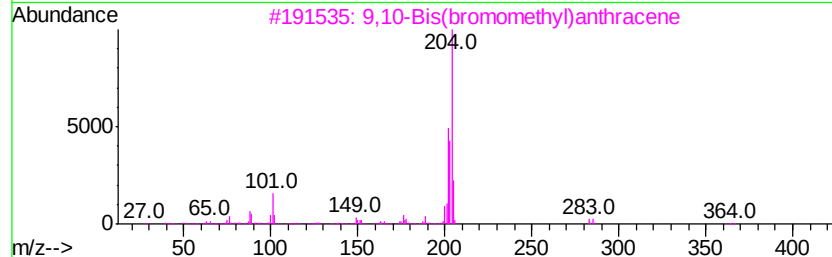
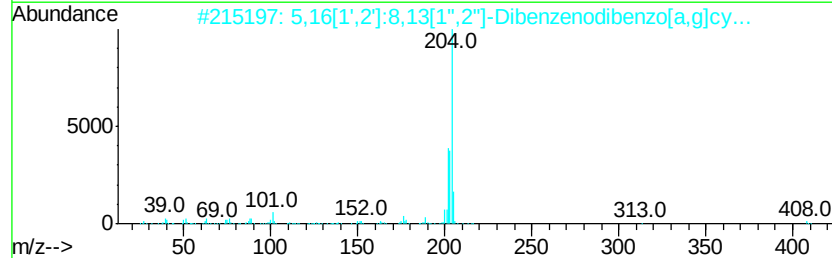
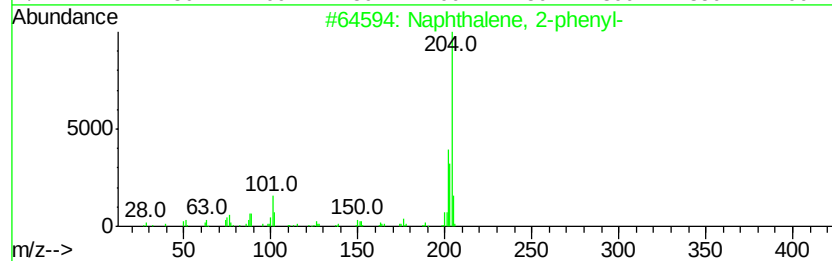
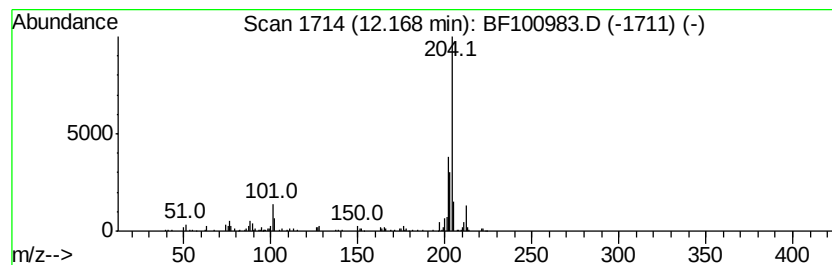
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.17 | 7.91 ng | 202306 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                         | MW  | MolForm   | CAS#        | Qual |
|------|----|--------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 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    |    | 9,10-Bis(bromomethyl)anthracene      | 362 | C16H12Br2 | 034373-96-1 | 58   |
| 4    |    | [1,1'-Bi(phenyl)-4,4'-dicarbonitrile | 204 | C14H8N2   | 001591-30-6 | 50   |
| 5    |    | Acephenanthrylene, 4,5-dihydro-      | 204 | C16H12    | 006232-48-0 | 49   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

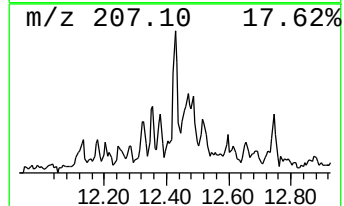
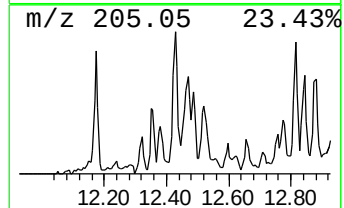
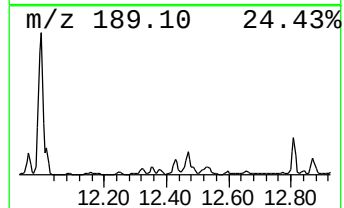
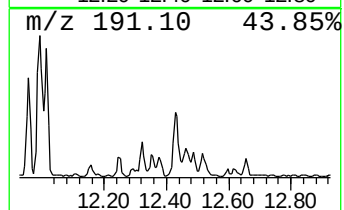
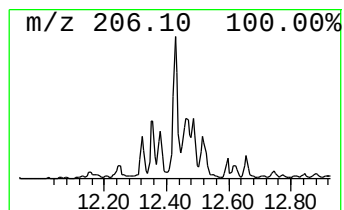
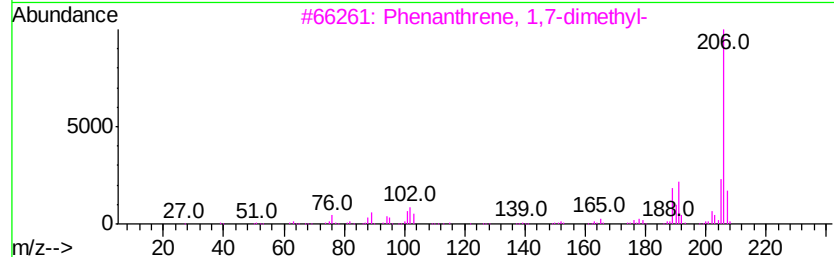
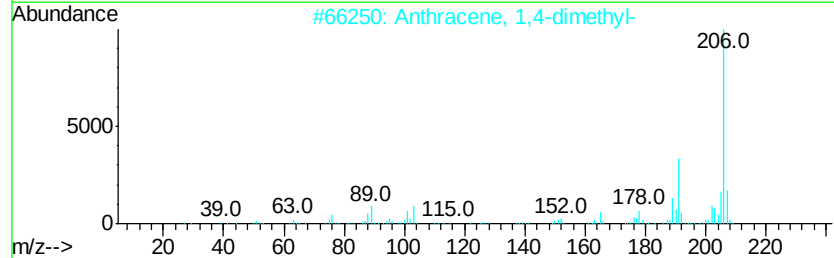
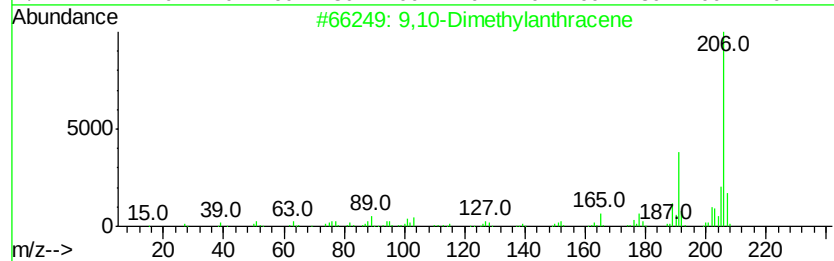
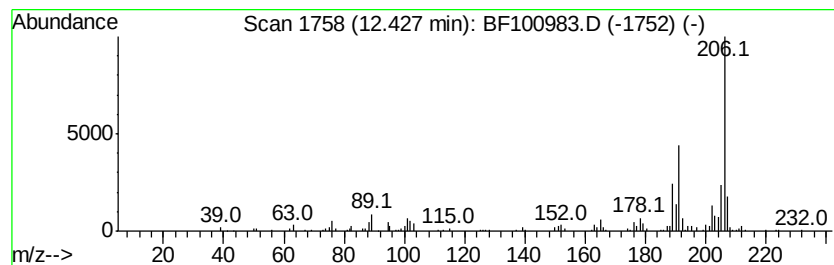
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 14 9,10-Dimethylantracene Concentration Rank 11

| R.T.      | EstConc                     | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------------|--------|------------------|-------------|------|
| 12.43     | 8.62 ng                     | 220674 | Phenanthrene-d10 | 11.38       |      |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual |
| 1         | 9,10-Dimethylantracene      | 206    | C16H14           | 000781-43-1 | 96   |
| 2         | Anthracene, 1,4-dimethyl-   | 206    | C16H14           | 000781-92-0 | 93   |
| 3         | Phenanthrene, 1,7-dimethyl- | 206    | C16H14           | 000483-87-4 | 93   |
| 4         | Phenanthrene, 2,5-dimethyl- | 206    | C16H14           | 003674-66-6 | 93   |
| 5         | di-p-Tolylacetylene         | 206    | C16H14           | 002789-88-0 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

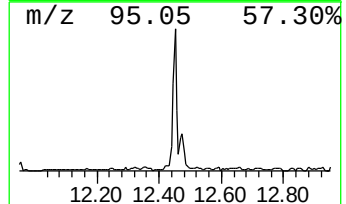
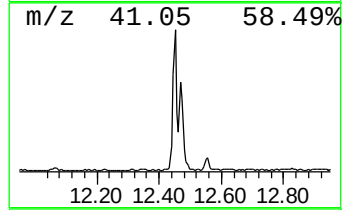
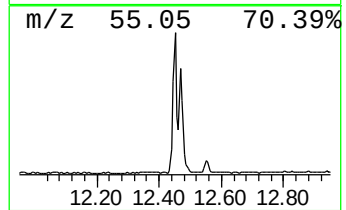
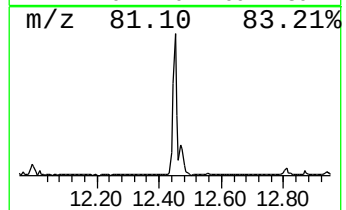
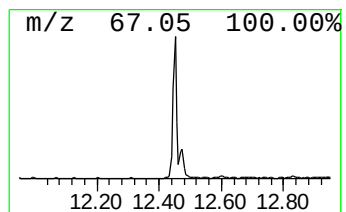
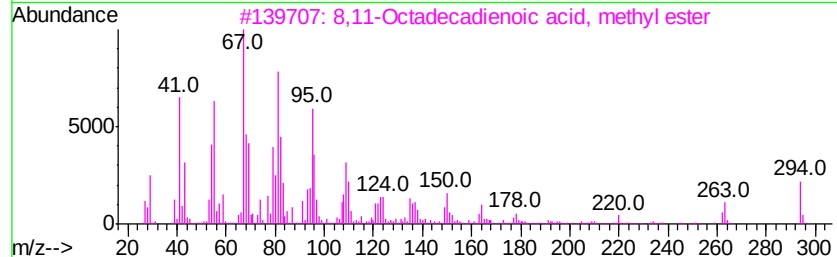
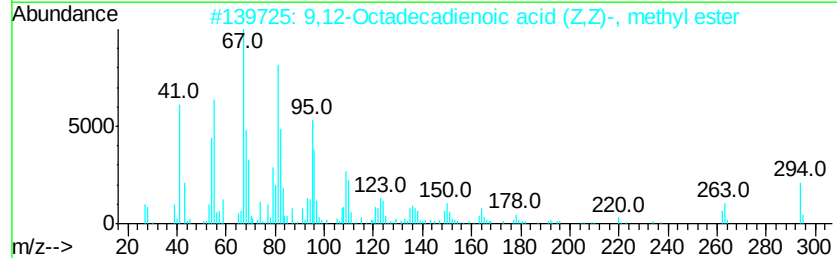
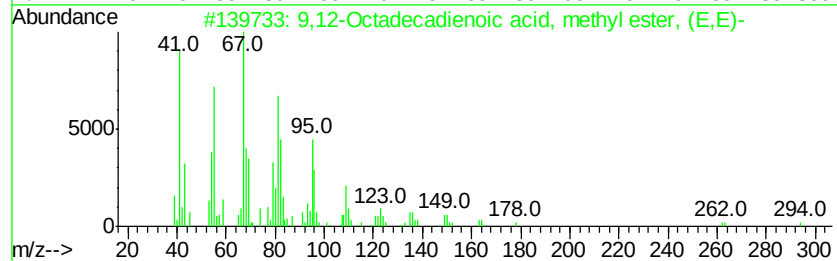
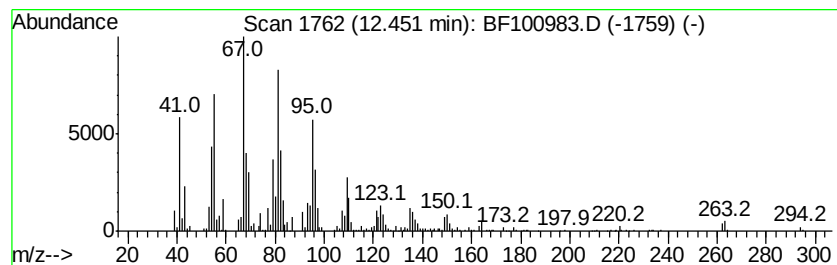
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 9,12-Octadecadienoic acid, ... Concentration Rank 1

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.45 | 38.06 ng | 974071 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4  | 99   |
| 2    |    | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0  | 99   |
| 3    |    | 8,11-Octadecadienoic acid, methy... | 294 | C19H34O2 | 056599-58-7  | 99   |
| 4    |    | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3  | 99   |
| 5    |    | Methyl 9-cis,11-trans-octadecadi... | 294 | C19H34O2 | 1000336-44-0 | 99   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

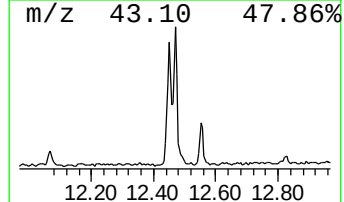
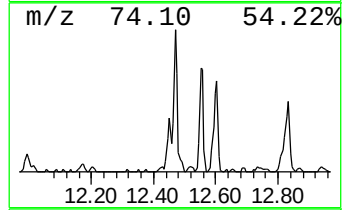
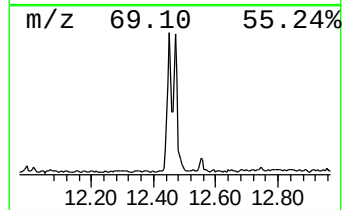
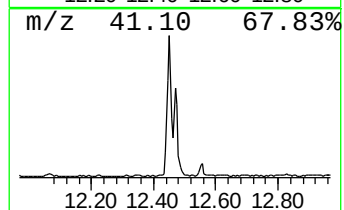
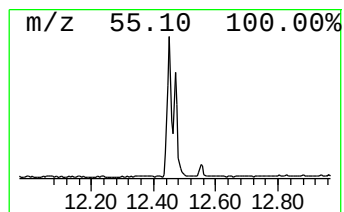
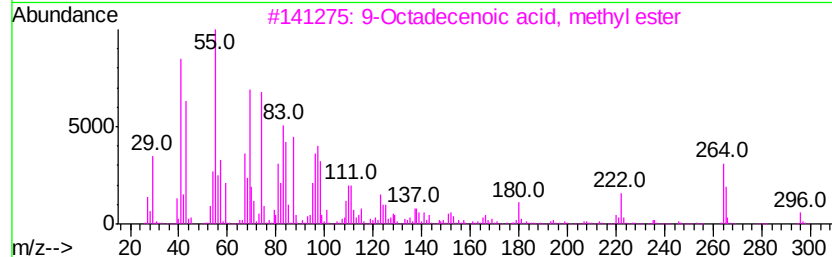
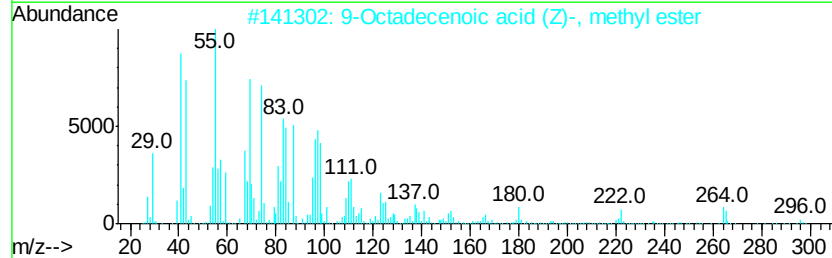
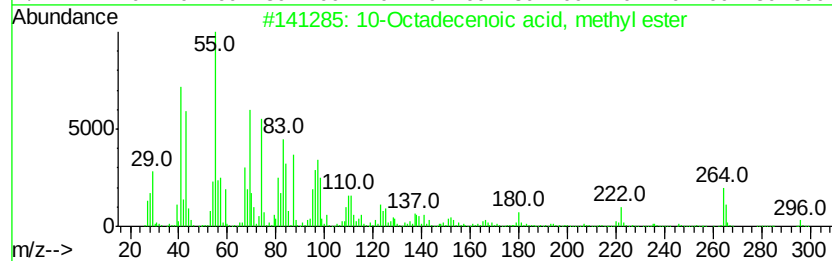
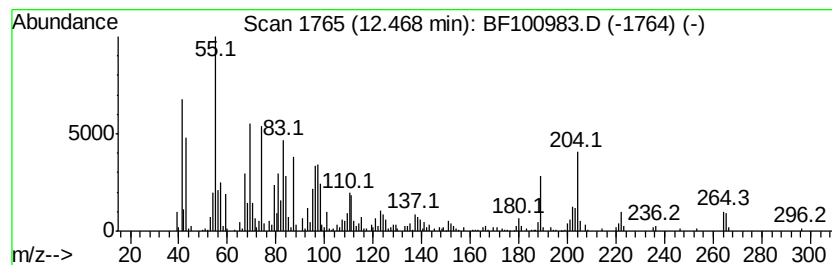
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 10-Octadecenoic acid, methyl... Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.47 | 23.21 ng | 593973 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 10-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 013481-95-3 | 99   |
| 2    |    | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 97   |
| 3    |    | 9-Octadecenoic acid, methyl ester   | 296 | C19H36O2 | 002462-84-2 | 97   |
| 4    |    | 7-Octadecenoic acid, methyl ester   | 296 | C19H36O2 | 057396-98-2 | 96   |
| 5    |    | 8-Octadecenoic acid, methyl ester   | 296 | C19H36O2 | 002345-29-1 | 96   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

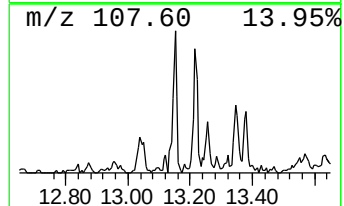
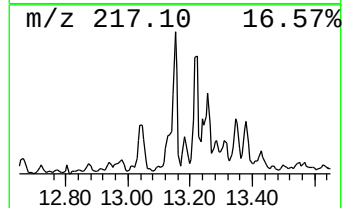
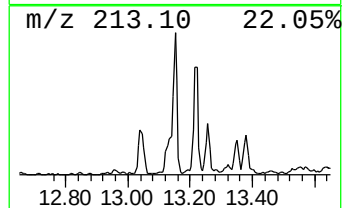
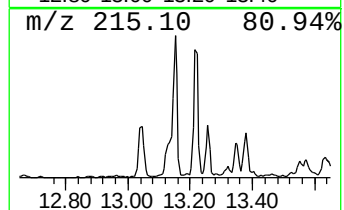
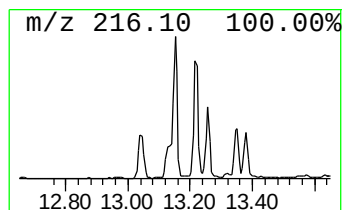
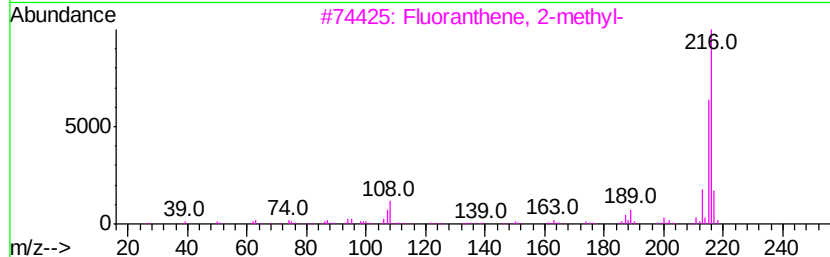
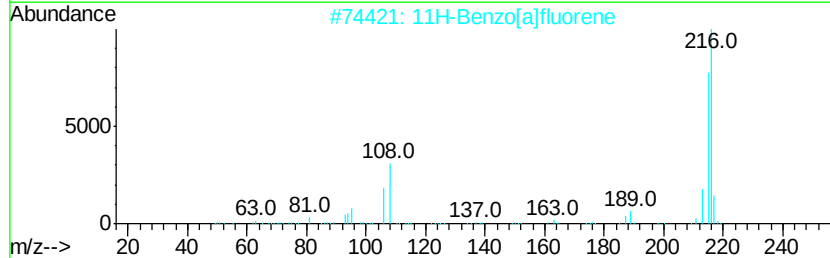
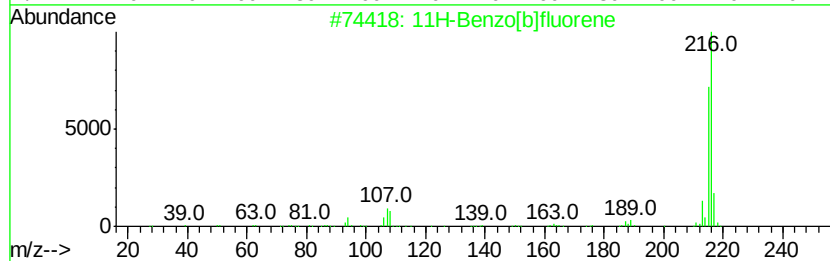
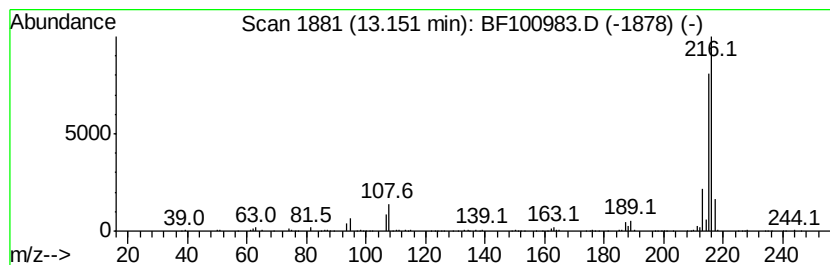
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.15 | 5.39 ng | 472723 | Chrysene-d12     | 14.03 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 95   |
| 2    |    | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 93   |
| 3    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 87   |
| 4    |    | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 87   |
| 5    |    | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 87   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

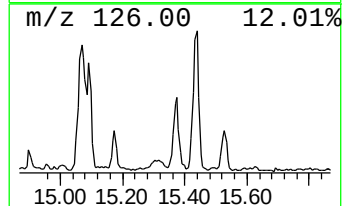
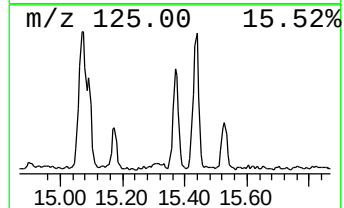
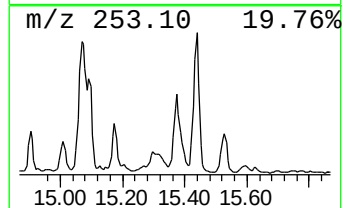
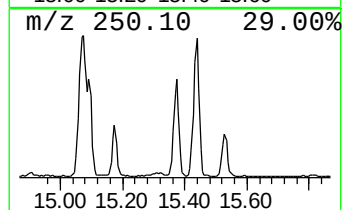
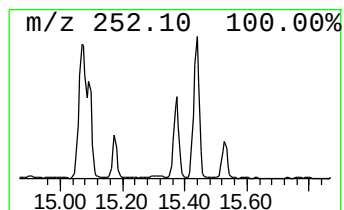
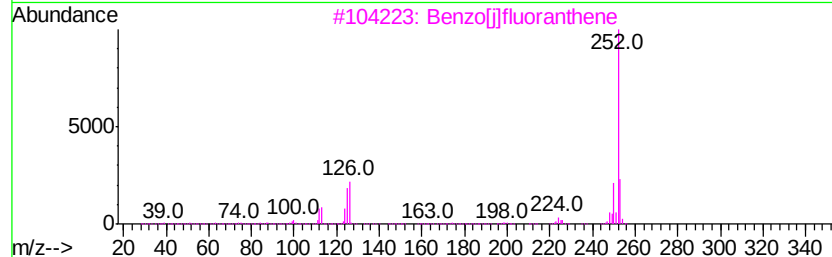
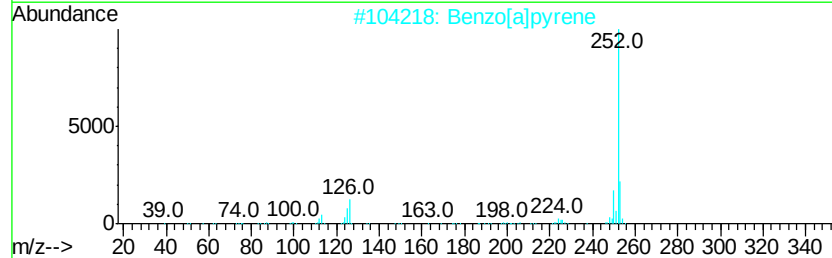
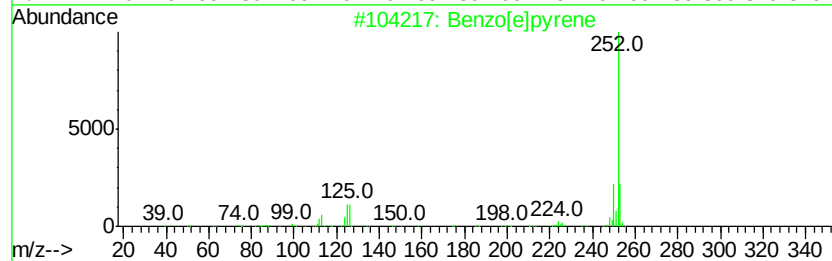
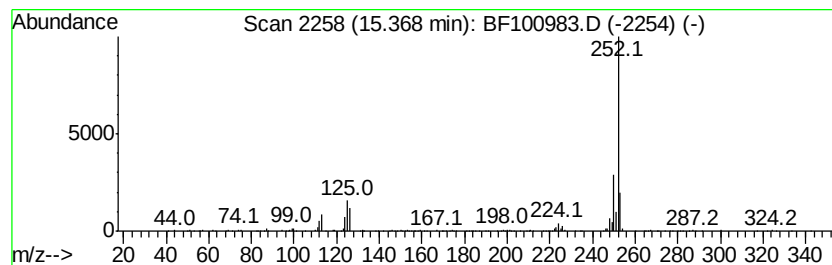
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 Benzo[e]pyrene Concentration Rank 3

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.37 | 25.54 ng | 448401 | Perylene-d12     | 15.50 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 96   |
| 2    |    | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 91   |
| 3    |    | Benzo[i]fluoranthene      | 252 | C20H12  | 000205-82-3 | 90   |
| 4    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 90   |
| 5    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 76   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112917\  
 Data File : BF100983.D  
 Acq On : 29 Nov 2017 17:38  
 Operator : SJ/JU  
 Sample : I6304-24 10X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-112817-B

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.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 |
| unknown6.62           | 6.62  | 8.2     | ng    | 165841   | 1                     | 6.85  | 403729  | 20.0 |
| Naphthalene, 1-me...  | 8.95  | 10.7    | ng    | 292063   | 2                     | 8.13  | 544666  | 20.0 |
| Naphthalene, 1,7-...  | 9.47  | 7.7     | ng    | 208038   | 3                     | 9.89  | 541291  | 20.0 |
| Naphthalene, 1,4-...  | 9.55  | 9.1     | ng    | 245801   | 3                     | 9.89  | 541291  | 20.0 |
| 9H-Fluorene, 3-me...  | 10.99 | 7.1     | ng    | 182455   | 4                     | 11.38 | 511807  | 20.0 |
| Naphtho[2,1-b]thi...  | 11.27 | 6.5     | ng    | 167579   | 4                     | 11.38 | 511807  | 20.0 |
| Hexadecanoic acid...  | 11.76 | 9.5     | ng    | 243024   | 4                     | 11.38 | 511807  | 20.0 |
| Anthracene, 2-met...  | 11.88 | 12.4    | ng    | 316649   | 4                     | 11.38 | 511807  | 20.0 |
| Phenanthrene, 2-m...  | 11.91 | 15.4    | ng    | 393675   | 4                     | 11.38 | 511807  | 20.0 |
| 4H-Cyclopenta[def...  | 11.99 | 25.8    | ng    | 661256   | 4                     | 11.38 | 511807  | 20.0 |
| Naphthalene, 2-ph...  | 12.17 | 7.9     | ng    | 202306   | 4                     | 11.38 | 511807  | 20.0 |
| 9,10-Dimethylanthe... | 12.43 | 8.6     | ng    | 220674   | 4                     | 11.38 | 511807  | 20.0 |
| 9,12-Octadecadien...  | 12.45 | 38.1    | ng    | 974071   | 4                     | 11.38 | 511807  | 20.0 |
| 10-Octadecenoic a...  | 12.47 | 23.2    | ng    | 593973   | 4                     | 11.38 | 511807  | 20.0 |
| 11H-Benzo[b]fluorene  | 13.15 | 5.4     | ng    | 472723   | 5                     | 14.03 | 1752820 | 20.0 |
| Benzo[e]pyrene        | 15.37 | 25.5    | ng    | 448401   | 6                     | 15.50 | 351112  | 20.0 |