

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
 Data File : BF094860.D  
 Acq On : 4 May 2017 5:05  
 Operator : SJ/MA  
 Sample : I2936-17 5X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP6-COMP(0.5-5FT)

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-BF050217.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         | 5.001       | 517           | 521         | 530          | rBV      | 88433          | 139479        | 8.20%           | 0.585%        |
| 2         | 5.672       | 631           | 635         | 657          | rBV      | 298429         | 543202        | 31.93%          | 2.278%        |
| 3         | 7.260       | 901           | 905         | 922          | rBV      | 314802         | 540231        | 31.75%          | 2.266%        |
| 4         | 7.383       | 922           | 926         | 938          | rVB      | 462411         | 620008        | 36.44%          | 2.601%        |
| 5         | 7.719       | 979           | 983         | 992          | rBV      | 418276         | 492233        | 28.93%          | 2.065%        |
| 6         | 7.954       | 1019          | 1023        | 1036         | rVB      | 391177         | 474986        | 27.92%          | 1.992%        |
| 7         | 8.613       | 1131          | 1135        | 1148         | rBV      | 254461         | 327353        | 19.24%          | 1.373%        |
| 8         | 9.742       | 1322          | 1327        | 1331         | rBV      | 579777         | 638976        | 37.55%          | 2.680%        |
| 9         | 9.772       | 1331          | 1332        | 1339         | rVB      | 40330          | 43834         | 2.58%           | 0.184%        |
| 10        | 11.513      | 1624          | 1628        | 1640         | rVB      | 565708         | 639285        | 37.57%          | 2.682%        |
| 11        | 12.042      | 1714          | 1718        | 1723         | rBV2     | 27315          | 39076         | 2.30%           | 0.164%        |
| 12        | 12.207      | 1742          | 1746        | 1751         | rBV2     | 30396          | 55245         | 3.25%           | 0.232%        |
| 13        | 12.348      | 1764          | 1770        | 1777         | rVV2     | 31841          | 54407         | 3.20%           | 0.228%        |
| 14        | 12.571      | 1798          | 1808        | 1814         | rBV2     | 542589         | 690651        | 40.59%          | 2.897%        |
| 15        | 12.624      | 1814          | 1817        | 1822         | rVB      | 75381          | 94395         | 5.55%           | 0.396%        |
| 16        | 12.913      | 1861          | 1866        | 1870         | rBV      | 39791          | 57273         | 3.37%           | 0.240%        |
| 17        | 13.118      | 1892          | 1901        | 1906         | rBV4     | 24806          | 38044         | 2.24%           | 0.160%        |
| 18        | 13.418      | 1946          | 1952        | 1955         | rBV3     | 33894          | 49803         | 2.93%           | 0.209%        |
| 19        | 13.465      | 1955          | 1960        | 1969         | rVB      | 102481         | 136443        | 8.02%           | 0.572%        |
| 20        | 13.577      | 1971          | 1979        | 1982         | rVV4     | 22198          | 53482         | 3.14%           | 0.224%        |
| 21        | 13.742      | 2003          | 2007        | 2010         | rVV2     | 30714          | 42039         | 2.47%           | 0.176%        |
| 22        | 13.865      | 2024          | 2028        | 2038         | rBV      | 261088         | 360497        | 21.19%          | 1.512%        |
| 23        | 14.095      | 2058          | 2067        | 2073         | rBV6     | 17505          | 34975         | 2.06%           | 0.147%        |
| 24        | 14.212      | 2085          | 2087        | 2091         | rVB3     | 41437          | 51655         | 3.04%           | 0.217%        |
| 25        | 14.365      | 2108          | 2113        | 2117         | rBV5     | 27908          | 50621         | 2.98%           | 0.212%        |
| 26        | 14.407      | 2117          | 2120        | 2123         | rVV2     | 26438          | 36901         | 2.17%           | 0.155%        |
| 27        | 14.495      | 2126          | 2135        | 2141         | rVB8     | 18558          | 51493         | 3.03%           | 0.216%        |
| 28        | 14.595      | 2149          | 2152        | 2157         | rBV6     | 28556          | 45417         | 2.67%           | 0.191%        |
| 29        | 14.683      | 2164          | 2167        | 2174         | rVB4     | 25517          | 44118         | 2.59%           | 0.185%        |
| 30        | 14.765      | 2176          | 2181        | 2184         | rVV5     | 26900          | 45603         | 2.68%           | 0.191%        |
| 31        | 14.801      | 2184          | 2187        | 2192         | rVB      | 47305          | 57506         | 3.38%           | 0.241%        |
| 32        | 14.924      | 2205          | 2208        | 2211         | rBV3     | 34258          | 35923         | 2.11%           | 0.151%        |
| 33        | 14.971      | 2211          | 2216        | 2219         | rVV      | 492340         | 591277        | 34.75%          | 2.480%        |
| 34        | 15.006      | 2219          | 2222        | 2228         | rVV      | 673059         | 780380        | 45.86%          | 3.273%        |

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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-BF050217.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 15.089 | 2228 | 2236 | 2243 | rVV  | 217291  | 278990  | 16.40%  | 1.170% |
| 36 | 15.377 | 2280 | 2285 | 2288 | rBV  | 45540   | 60909   | 3.58%   | 0.255% |
| 37 | 15.583 | 2317 | 2320 | 2323 | rBV2 | 31482   | 34334   | 2.02%   | 0.144% |
| 38 | 15.753 | 2345 | 2349 | 2352 | rBV  | 139138  | 147919  | 8.69%   | 0.620% |
| 39 | 15.795 | 2352 | 2356 | 2363 | rVB  | 161682  | 197655  | 11.62%  | 0.829% |
| 40 | 15.859 | 2364 | 2367 | 2371 | rBV  | 88937   | 94901   | 5.58%   | 0.398% |
| 41 | 15.901 | 2371 | 2374 | 2378 | rBV2 | 217143  | 299266  | 17.59%  | 1.255% |
| 42 | 15.942 | 2378 | 2381 | 2385 | rVB  | 125591  | 143542  | 8.44%   | 0.602% |
| 43 | 16.101 | 2403 | 2408 | 2412 | rBV6 | 21894   | 40191   | 2.36%   | 0.169% |
| 44 | 16.195 | 2419 | 2424 | 2428 | rBV2 | 84278   | 126116  | 7.41%   | 0.529% |
| 45 | 16.236 | 2428 | 2431 | 2434 | rVB  | 45571   | 50162   | 2.95%   | 0.210% |
| 46 | 16.406 | 2456 | 2460 | 2464 | rBV  | 34121   | 51401   | 3.02%   | 0.216% |
| 47 | 16.448 | 2464 | 2467 | 2470 | rBV  | 48986   | 49139   | 2.89%   | 0.206% |
| 48 | 16.483 | 2470 | 2473 | 2477 | rVB  | 36644   | 47048   | 2.77%   | 0.197% |
| 49 | 16.548 | 2479 | 2484 | 2488 | rBV  | 150906  | 211090  | 12.41%  | 0.885% |
| 50 | 16.589 | 2488 | 2491 | 2495 | rVV2 | 83082   | 122683  | 7.21%   | 0.515% |
| 51 | 16.624 | 2495 | 2497 | 2500 | rVB  | 42795   | 41632   | 2.45%   | 0.175% |
| 52 | 16.659 | 2500 | 2503 | 2511 | rVB2 | 98758   | 170212  | 10.00%  | 0.714% |
| 53 | 16.724 | 2511 | 2514 | 2515 | rBV2 | 39761   | 40894   | 2.40%   | 0.172% |
| 54 | 16.753 | 2515 | 2519 | 2524 | rVV  | 1284993 | 1401062 | 82.34%  | 5.877% |
| 55 | 16.795 | 2524 | 2526 | 2531 | rVB3 | 44406   | 56501   | 3.32%   | 0.237% |
| 56 | 16.848 | 2531 | 2535 | 2538 | rBV3 | 75353   | 94540   | 5.56%   | 0.397% |
| 57 | 16.948 | 2548 | 2552 | 2557 | rBV2 | 65413   | 99607   | 5.85%   | 0.418% |
| 58 | 17.053 | 2564 | 2570 | 2575 | rBV  | 1388207 | 1701478 | 100.00% | 7.137% |
| 59 | 17.136 | 2579 | 2584 | 2587 | rVB3 | 52785   | 83681   | 4.92%   | 0.351% |
| 60 | 17.171 | 2587 | 2590 | 2595 | rVB2 | 57422   | 67483   | 3.97%   | 0.283% |
| 61 | 17.236 | 2596 | 2601 | 2605 | rBV3 | 84058   | 117656  | 6.91%   | 0.494% |
| 62 | 17.295 | 2605 | 2611 | 2617 | rVB2 | 484642  | 575659  | 33.83%  | 2.415% |
| 63 | 17.371 | 2620 | 2624 | 2629 | rVV2 | 106643  | 127962  | 7.52%   | 0.537% |
| 64 | 17.483 | 2638 | 2643 | 2645 | rBV4 | 104047  | 180100  | 10.58%  | 0.755% |
| 65 | 17.512 | 2645 | 2648 | 2653 | rVB  | 226554  | 288887  | 16.98%  | 1.212% |
| 66 | 17.565 | 2655 | 2657 | 2659 | rBV2 | 27263   | 30294   | 1.78%   | 0.127% |
| 67 | 17.600 | 2659 | 2663 | 2667 | rVB2 | 179478  | 183976  | 10.81%  | 0.772% |
| 68 | 17.647 | 2667 | 2671 | 2674 | rBV2 | 230297  | 305455  | 17.95%  | 1.281% |
| 69 | 17.695 | 2677 | 2679 | 2682 | rVB2 | 44936   | 40929   | 2.41%   | 0.172% |
| 70 | 17.759 | 2687 | 2690 | 2694 | rVV  | 158481  | 164779  | 9.68%   | 0.691% |
| 71 | 17.800 | 2694 | 2697 | 2704 | rVV  | 118107  | 146085  | 8.59%   | 0.613% |

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 TP6-COMP(0.5-5FT)

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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:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 17.995 | 2724 | 2730 | 2733 | rBV  | 129375 | 169812  | 9.98%  | 0.712% |
| 73  | 18.183 | 2759 | 2762 | 2765 | rVB  | 90588  | 95454   | 5.61%  | 0.400% |
| 74  | 18.259 | 2773 | 2775 | 2779 | rVB  | 50380  | 42538   | 2.50%  | 0.178% |
| 75  | 18.312 | 2780 | 2784 | 2788 | rVV3 | 133105 | 206258  | 12.12% | 0.865% |
| 76  | 18.347 | 2788 | 2790 | 2793 | rVV  | 114820 | 133078  | 7.82%  | 0.558% |
| 77  | 18.377 | 2793 | 2795 | 2797 | rVV  | 123532 | 110400  | 6.49%  | 0.463% |
| 78  | 18.406 | 2797 | 2800 | 2805 | rVB2 | 92220  | 120295  | 7.07%  | 0.505% |
| 79  | 18.459 | 2805 | 2809 | 2812 | rBV  | 117390 | 126554  | 7.44%  | 0.531% |
| 80  | 18.536 | 2819 | 2822 | 2824 | rBV  | 39277  | 41270   | 2.43%  | 0.173% |
| 81  | 18.636 | 2833 | 2839 | 2842 | rBV2 | 818263 | 1322400 | 77.72% | 5.547% |
| 82  | 18.671 | 2842 | 2845 | 2849 | rVB  | 666874 | 760568  | 44.70% | 3.190% |
| 83  | 18.765 | 2857 | 2861 | 2865 | rBV2 | 220807 | 251523  | 14.78% | 1.055% |
| 84  | 18.836 | 2871 | 2873 | 2876 | rVB2 | 51831  | 42639   | 2.51%  | 0.179% |
| 85  | 18.906 | 2882 | 2885 | 2888 | rVB  | 89111  | 90820   | 5.34%  | 0.381% |
| 86  | 18.953 | 2890 | 2893 | 2898 | rVB6 | 73118  | 102621  | 6.03%  | 0.430% |
| 87  | 19.094 | 2914 | 2917 | 2920 | rBV3 | 77725  | 113476  | 6.67%  | 0.476% |
| 88  | 19.142 | 2920 | 2925 | 2929 | rVV  | 227281 | 320269  | 18.82% | 1.343% |
| 89  | 19.183 | 2929 | 2932 | 2937 | rVB  | 109734 | 117501  | 6.91%  | 0.493% |
| 90  | 19.253 | 2941 | 2944 | 2947 | rVB2 | 117452 | 121679  | 7.15%  | 0.510% |
| 91  | 19.294 | 2947 | 2951 | 2957 | rBV6 | 89633  | 242210  | 14.24% | 1.016% |
| 92  | 19.906 | 3050 | 3055 | 3057 | rBV  | 675384 | 966614  | 56.81% | 4.055% |
| 93  | 20.012 | 3070 | 3073 | 3076 | rVB  | 140802 | 148265  | 8.71%  | 0.622% |
| 94  | 20.194 | 3100 | 3104 | 3107 | rBV  | 417727 | 451267  | 26.52% | 1.893% |
| 95  | 20.253 | 3110 | 3114 | 3119 | rBV  | 586496 | 681571  | 40.06% | 2.859% |
| 96  | 20.306 | 3119 | 3123 | 3126 | rBV  | 358198 | 398029  | 23.39% | 1.670% |
| 97  | 20.336 | 3126 | 3128 | 3131 | rVB  | 144063 | 127298  | 7.48%  | 0.534% |
| 98  | 21.594 | 3337 | 3342 | 3351 | rVB2 | 224873 | 379708  | 22.32% | 1.593% |
| 99  | 21.747 | 3365 | 3368 | 3371 | rBV2 | 33169  | 40881   | 2.40%  | 0.171% |
| 100 | 21.971 | 3401 | 3406 | 3414 | rBV  | 154229 | 284422  | 16.72% | 1.193% |

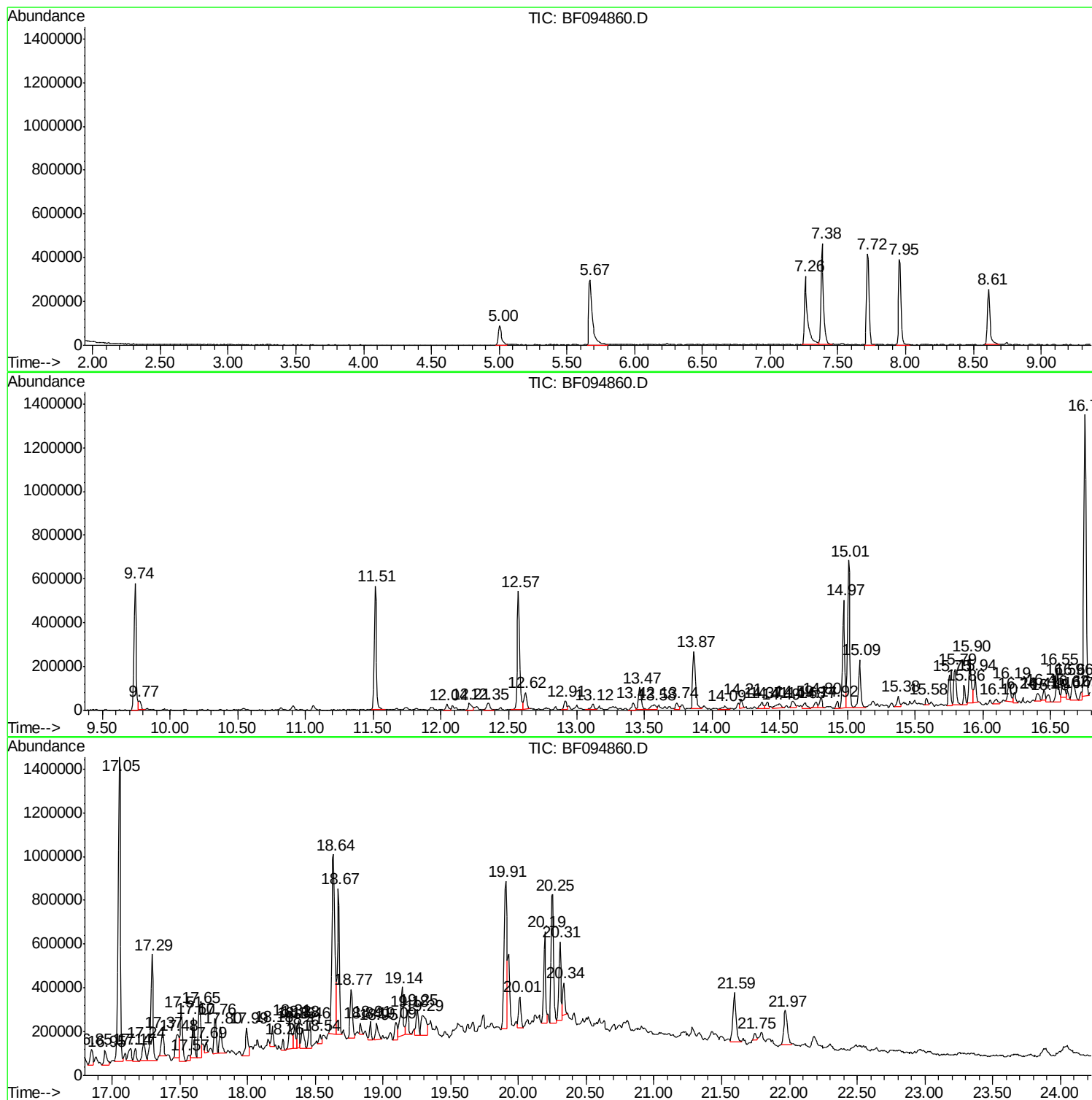
Sum of corrected areas: 23840449

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.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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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

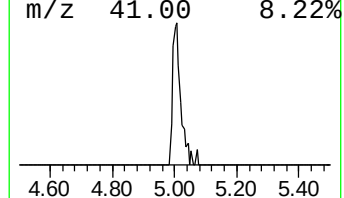
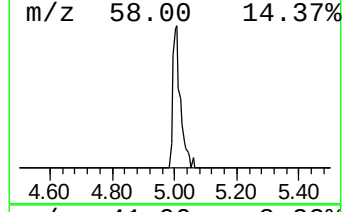
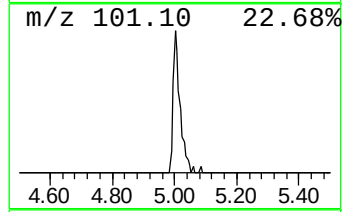
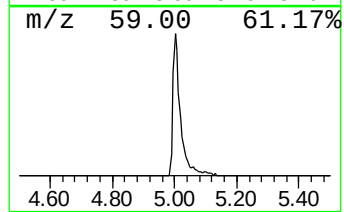
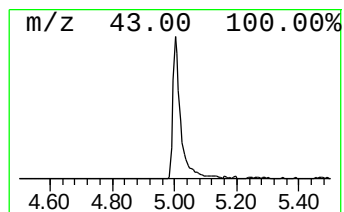
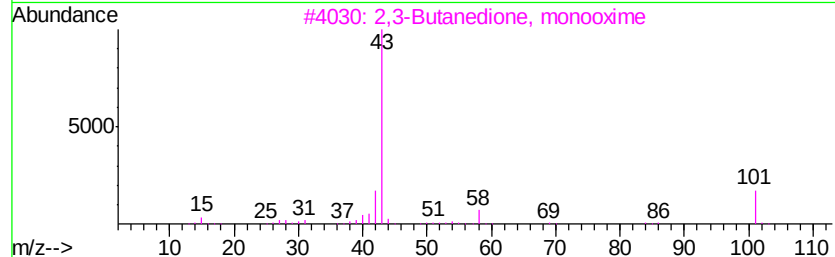
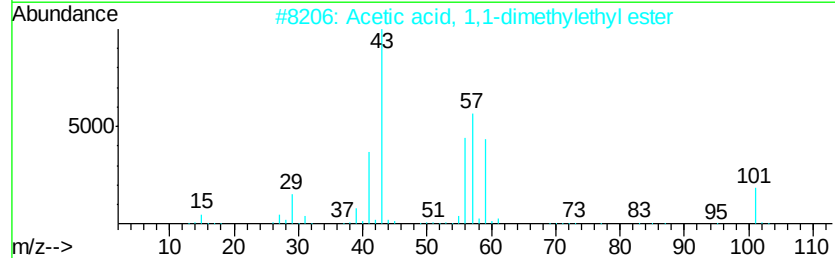
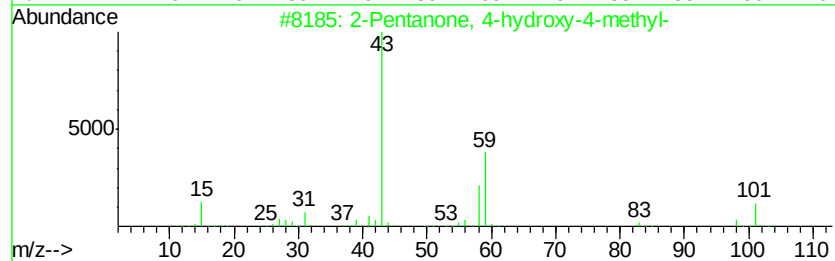
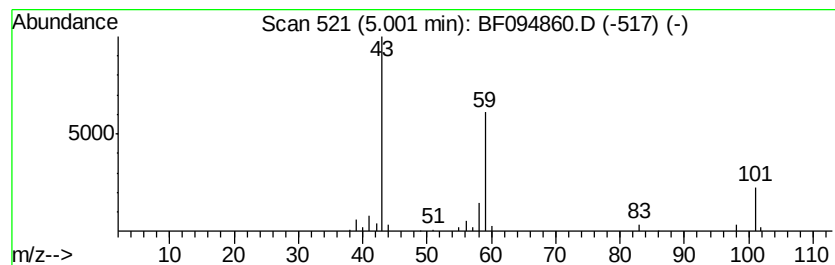
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 9

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.00 | 5.67 ng | 139479 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2      | 000123-42-2 | 56      |      |      |
| 2    | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2      | 000540-88-5 | 39      |      |      |
| 3    | 2,3-Butanedione, monooxime          | 101 | C4H7NO2      | 000057-71-6 | 35      |      |      |
| 4    | 3-Hexanol                           | 102 | C6H14O       | 000623-37-0 | 28      |      |      |
| 5    | Propane, 1-ethoxy-2-methyl-         | 102 | C6H14O       | 000627-02-1 | 25      |      |      |



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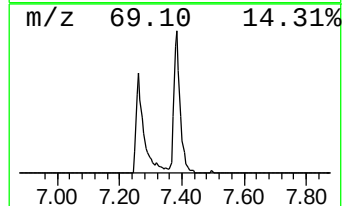
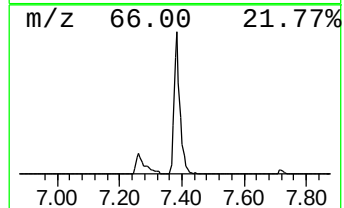
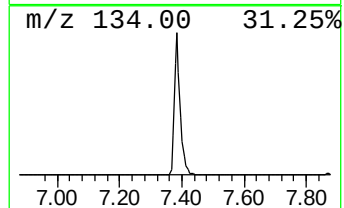
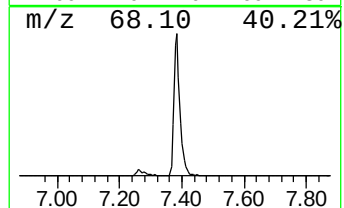
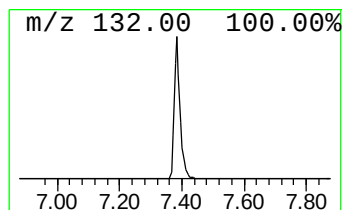
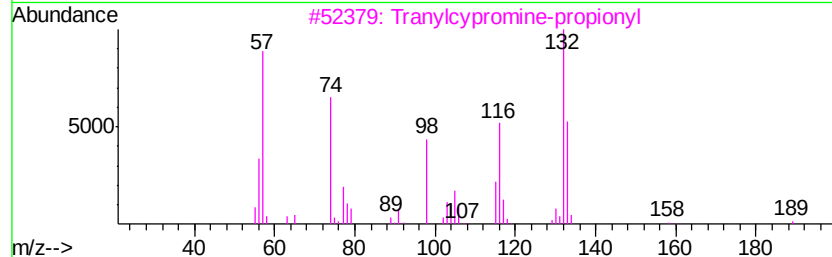
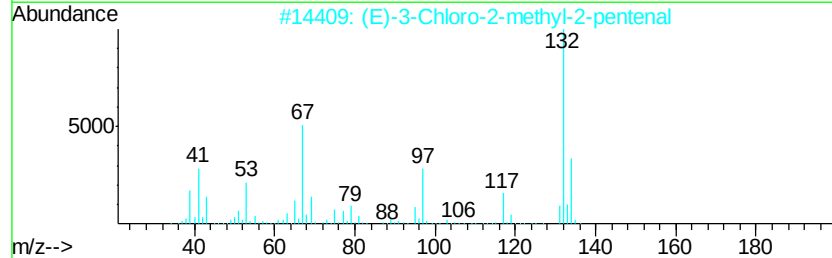
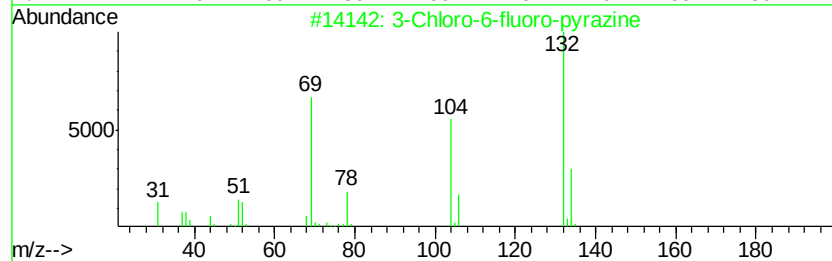
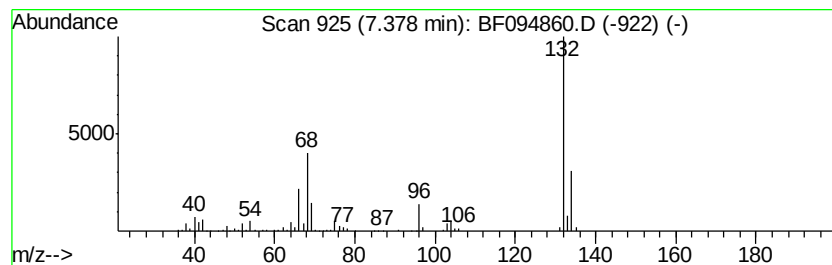
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown7.38 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 7.38 | 25.19 ng | 620008 | 1,4-Dichlorobenzene-d4 | 7.72 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 38   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 35   |
| 3    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 1H-Benzimidazole, 2-methyl-         | 132 | C8H8N2    | 000615-15-6  | 10   |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP6-COMP(0.5-5FT)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

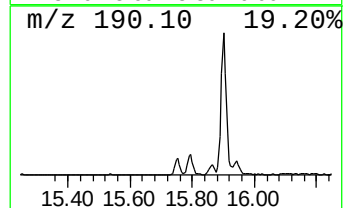
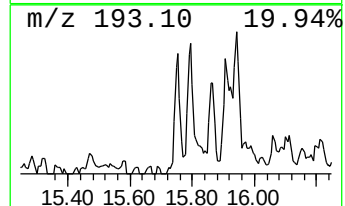
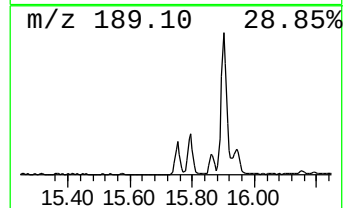
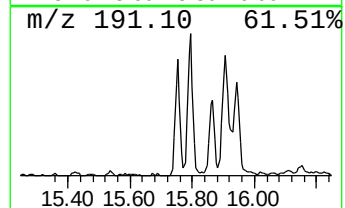
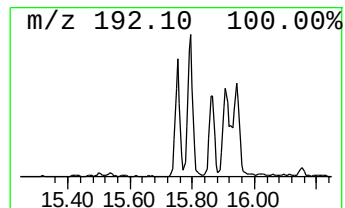
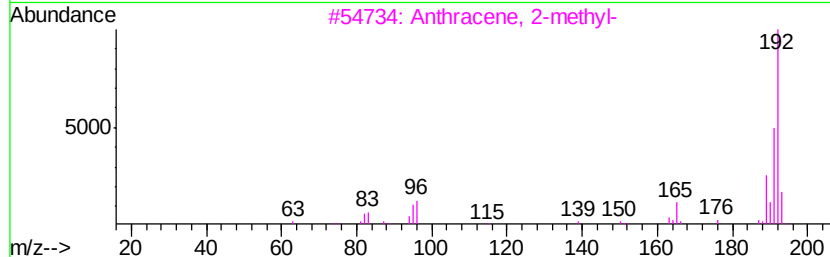
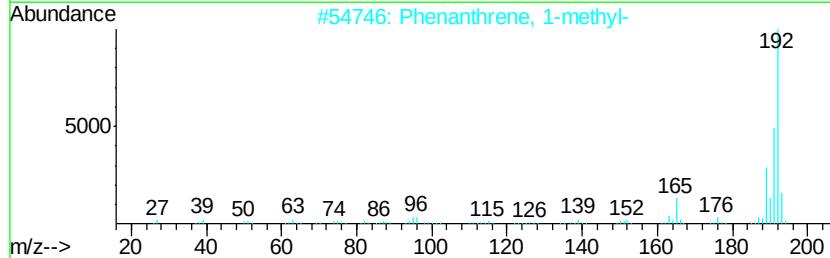
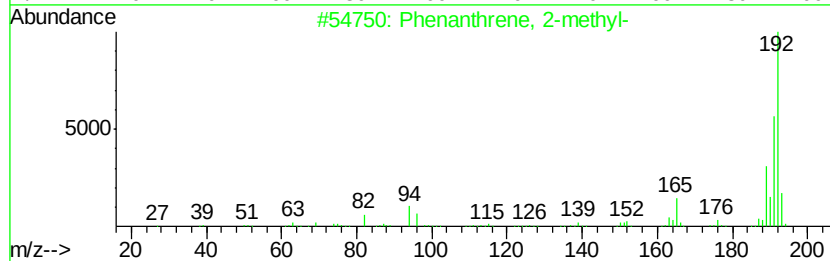
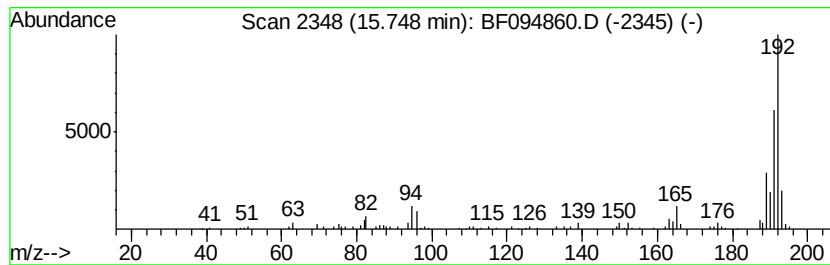
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.75 | 5.00 ng | 147919 | Phenanthrene-d10 | 14.97 |

| Hit# of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|-----------|-------------------------|-----|---------|-------------|------|
| 1         | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 97   |
| 2         | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 96   |
| 3         | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 94   |
| 4         | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 93   |
| 5         | 1H-Indene, 1-phenyl-    | 192 | C15H12  | 001961-96-2 | 93   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

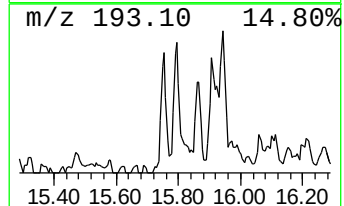
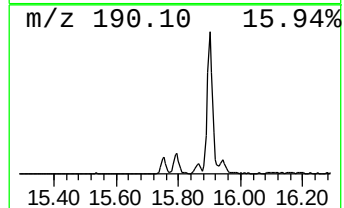
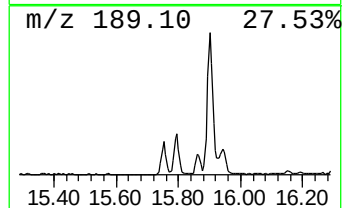
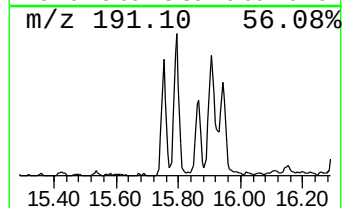
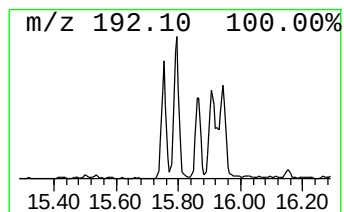
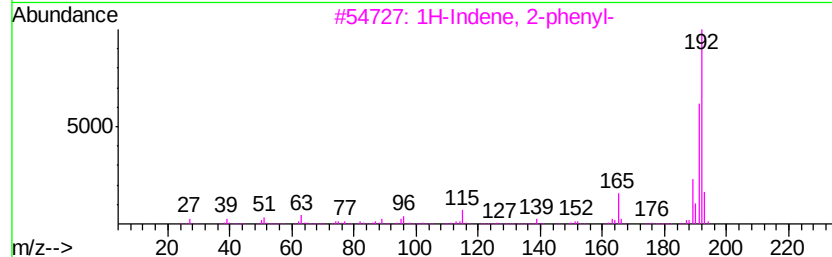
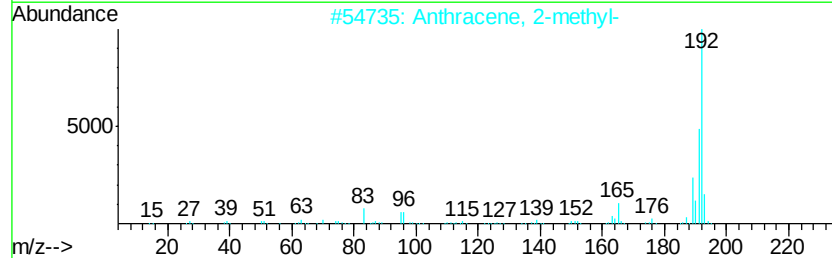
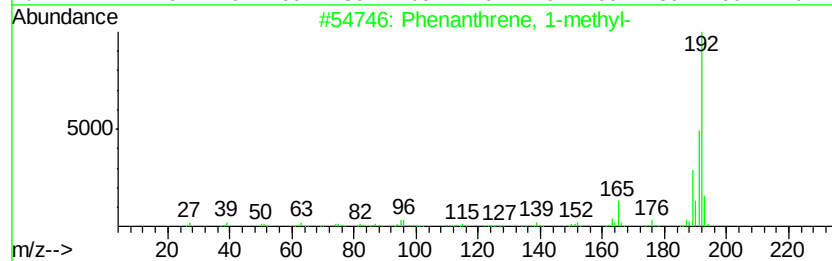
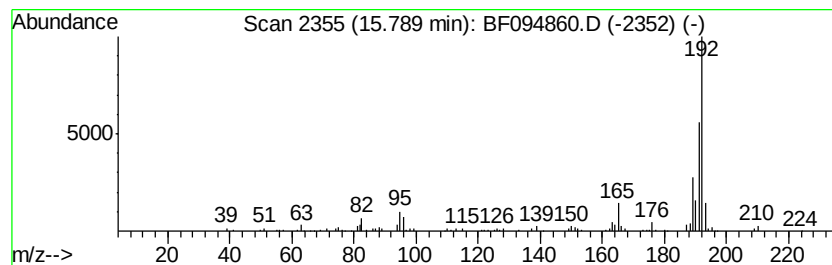
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TP6-COMP(0.5-5FT)

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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 5 Phenanthrene, 1-methyl- Concentration Rank 7

| R.T.      | EstConc                 | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------|--------|------------------|-------------|-------|
| 15.79     | 6.69 ng                 | 197655 | Phenanthrene-d10 |             | 14.97 |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual  |
| 1         | Phenanthrene, 1-methyl- | 192    | C15H12           | 000832-69-9 | 97    |
| 2         | Anthracene, 2-methyl-   | 192    | C15H12           | 000613-12-7 | 96    |
| 3         | 1H-Indene, 2-phenyl-    | 192    | C15H12           | 004505-48-0 | 94    |
| 4         | Anthracene, 1-methyl-   | 192    | C15H12           | 000610-48-0 | 94    |
| 5         | Phenanthrene, 2-methyl- | 192    | C15H12           | 002531-84-2 | 93    |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

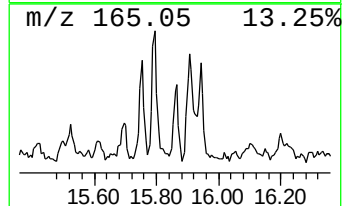
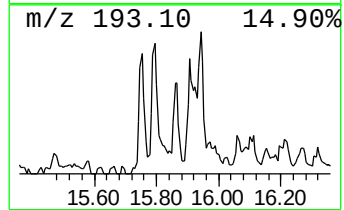
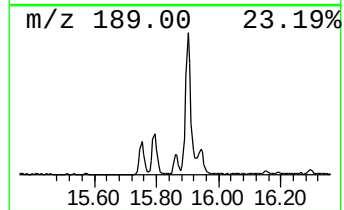
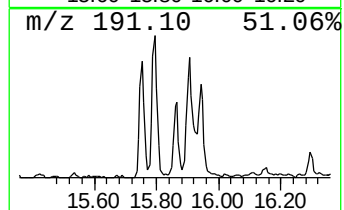
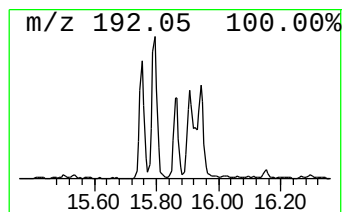
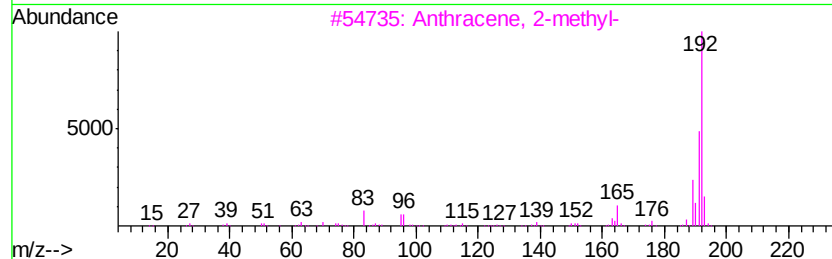
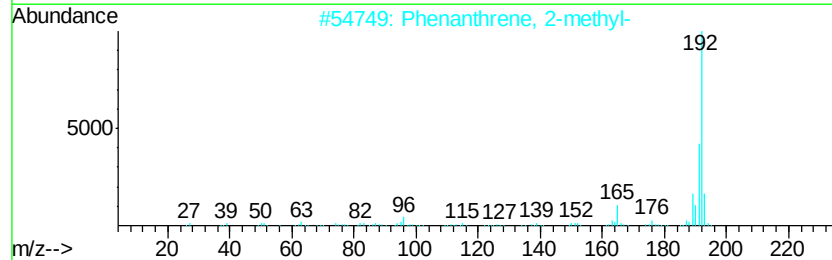
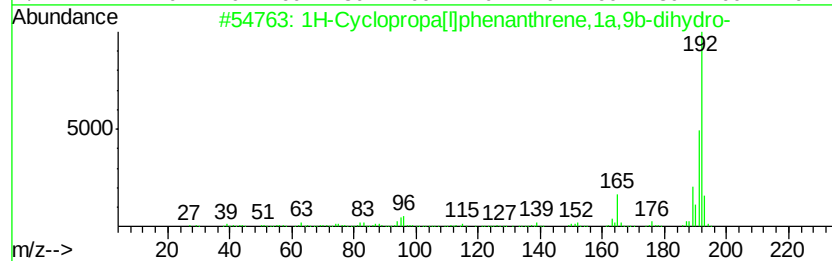
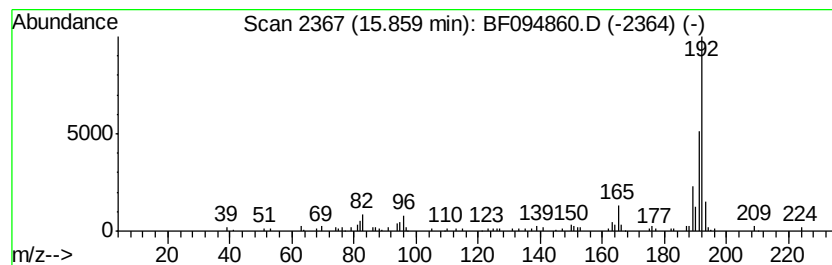
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ClientSampleId :  
TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 1H-Cyclopropa[l]phenanthren... Concentration Rank 19

| R.T.      | EstConc                               | Area  | Relative to ISTD | R.T.        |      |
|-----------|---------------------------------------|-------|------------------|-------------|------|
| 15.86     | 3.21 ng                               | 94901 | Phenanthrene-d10 | 14.97       |      |
| Hit# of 5 | Tentative ID                          | MW    | MolForm          | CAS#        | Qual |
| 1         | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192   | C15H12           | 000949-41-7 | 96   |
| 2         | Phenanthrene, 2-methyl-               | 192   | C15H12           | 002531-84-2 | 96   |
| 3         | Anthracene, 2-methyl-                 | 192   | C15H12           | 000613-12-7 | 95   |
| 4         | Phenanthrene, 1-methyl-               | 192   | C15H12           | 000832-69-9 | 95   |
| 5         | 1H-Indene, 2-phenyl-                  | 192   | C15H12           | 004505-48-0 | 94   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

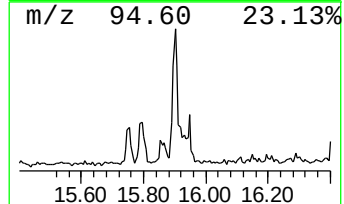
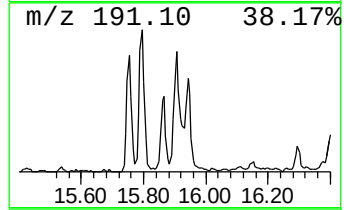
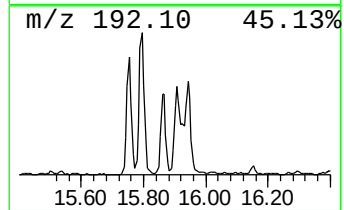
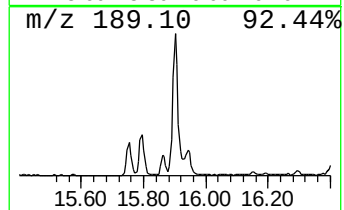
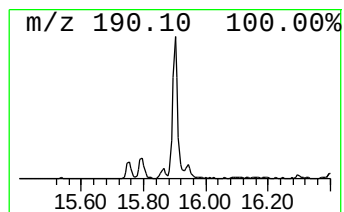
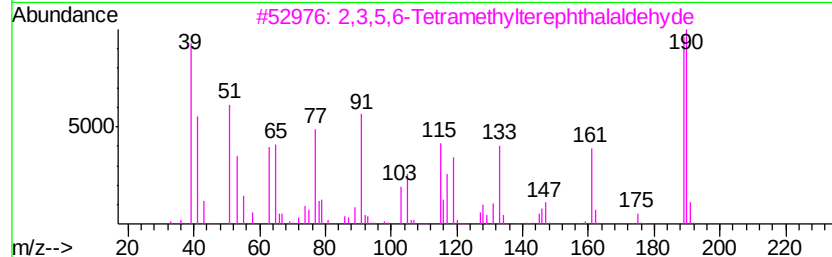
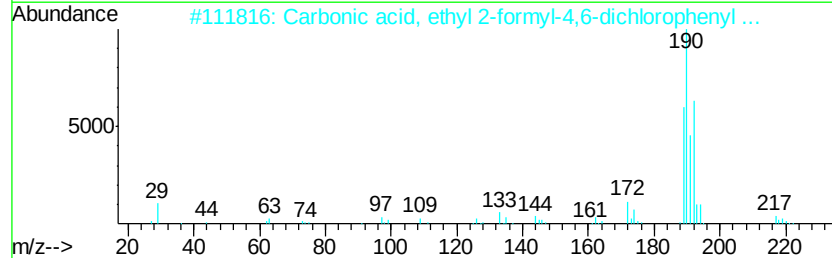
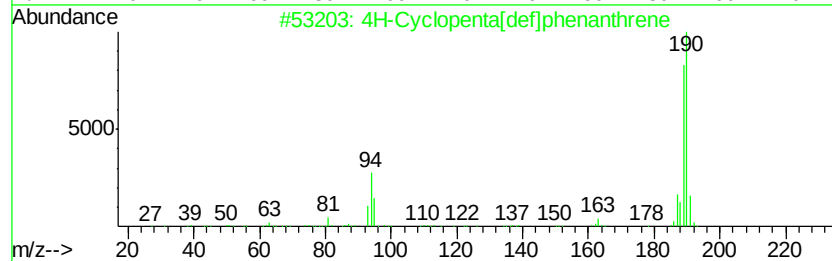
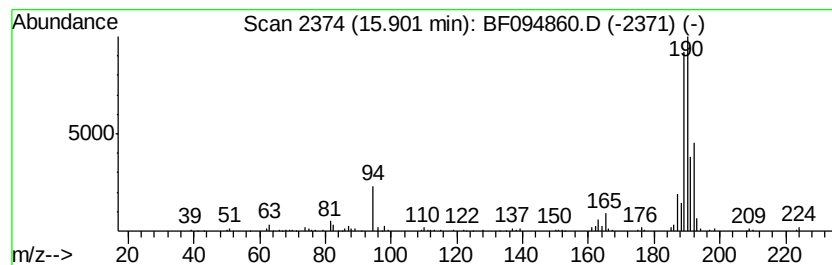
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ClientSampleId :  
TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.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 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 15.90     | 10.12 ng                            | 299266 | Phenanthrene-d10 | 14.97        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5  | 64   |
| 2         | Carbonic acid, ethyl 2-formyl-4,... | 262    | C10H8Cl2O4       | 1000331-34-4 | 50   |
| 3         | 2,3,5,6-Tetramethylterephthalald... | 190    | C12H14O2         | 007072-01-7  | 43   |
| 4         | 6H-Cyclobuta[jk]phenanthrene        | 190    | C15H10           | 083469-43-6  | 40   |
| 5         | 2,2'-Bis(4,5-dimethylimidazole)     | 190    | C10H14N4         | 069286-06-2  | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

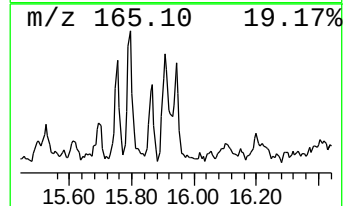
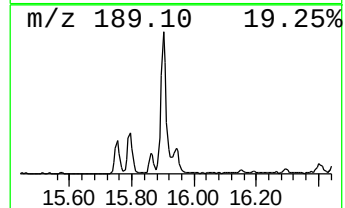
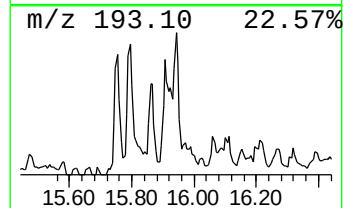
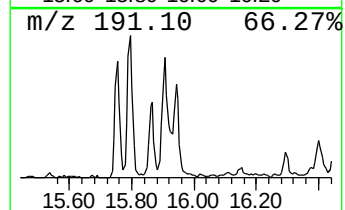
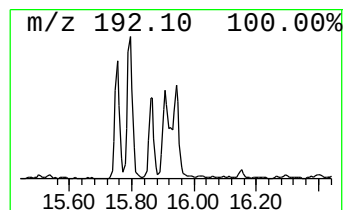
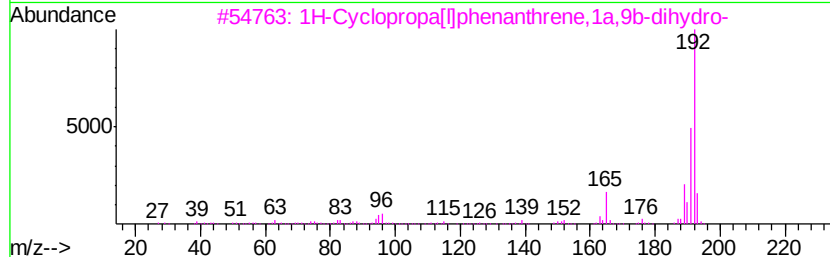
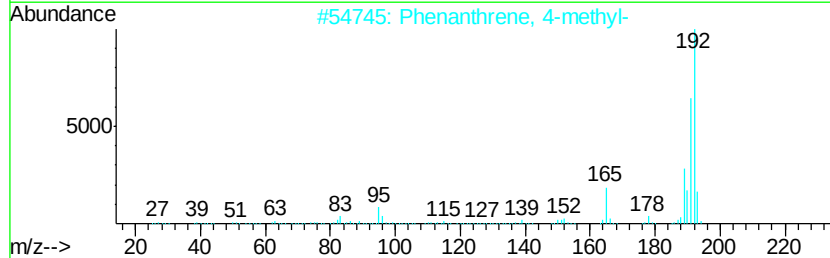
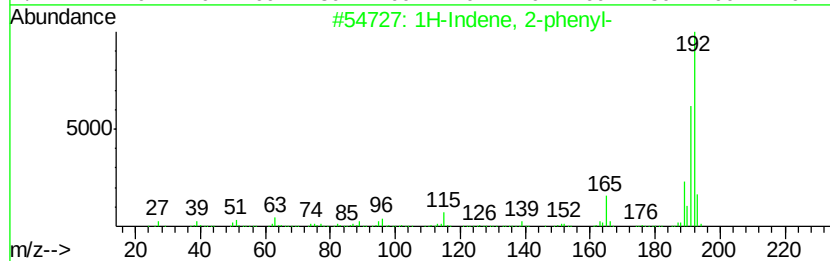
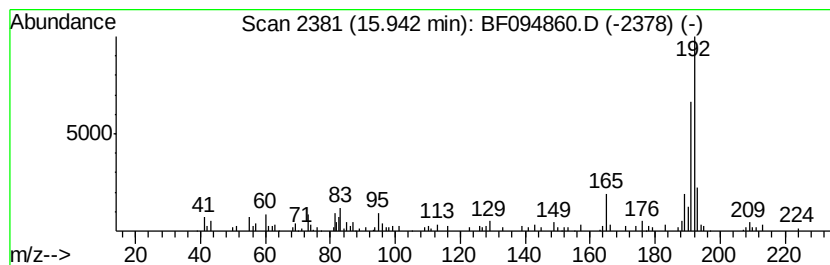
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ClientSampleId :  
TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 1H-Indene, 2-phenyl- Concentration Rank 11

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 15.94     | 4.86 ng                             | 143542 | Phenanthrene-d10 | 14.97       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 1H-Indene, 2-phenyl-                | 192    | C15H12           | 004505-48-0 | 93   |
| 2         | Phenanthrene, 4-methyl-             | 192    | C15H12           | 000832-64-4 | 93   |
| 3         | 1H-Cyclopropa[l]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 91   |
| 4         | Anthracene, 2-methyl-               | 192    | C15H12           | 000613-12-7 | 81   |
| 5         | Phenanthrene, 1-methyl-             | 192    | C15H12           | 000832-69-9 | 76   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP6-COMP(0.5-5FT)

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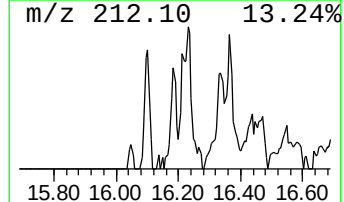
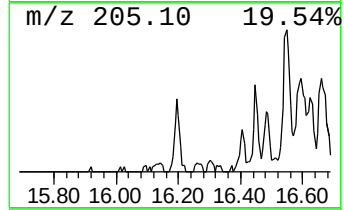
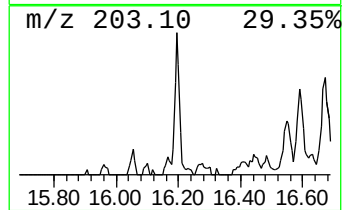
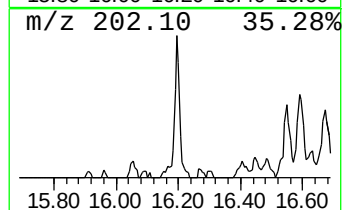
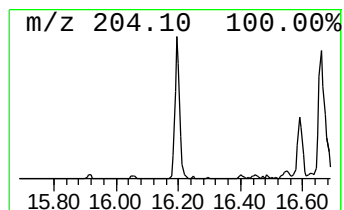
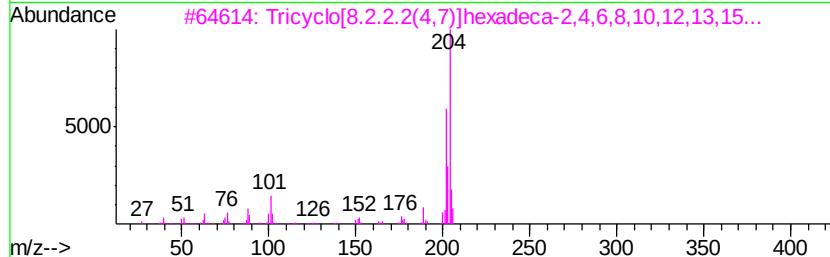
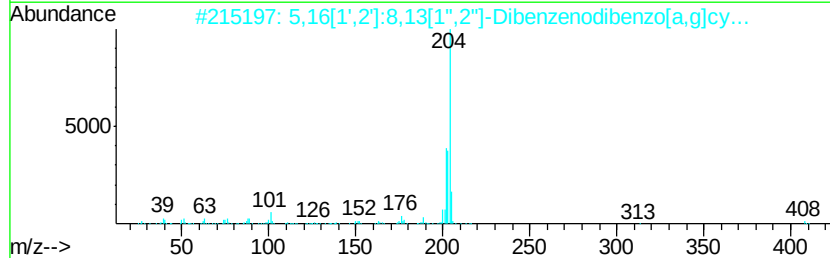
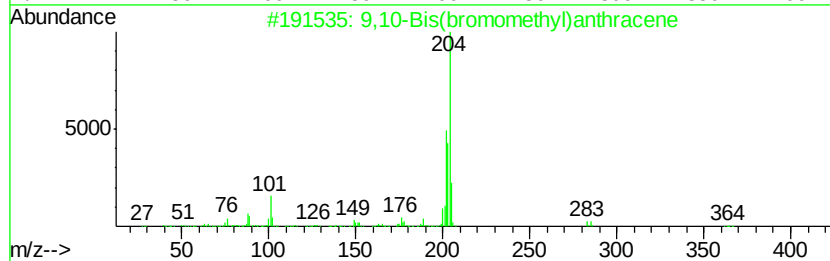
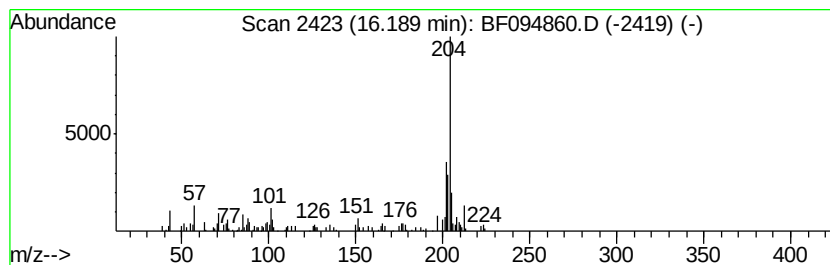
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 9,10-Bis(bromomethyl)anthra... Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.19 | 4.27 ng | 126116 | Phenanthrene-d10 | 14.97 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 9,10-Bis(bromomethyl)anthracene     | 362 | C16H12Br2 | 034373-96-1 | 90   |
| 2    |    | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24    | 005672-97-9 | 80   |
| 3    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12    | 006572-60-7 | 76   |
| 4    |    | Naphthalene, 2-phenyl-              | 204 | C16H12    | 000612-94-2 | 76   |
| 5    |    | Naphthalene, 1-phenyl-              | 204 | C16H12    | 000605-02-7 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

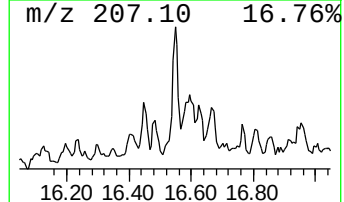
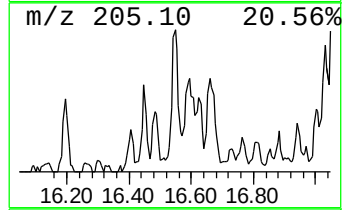
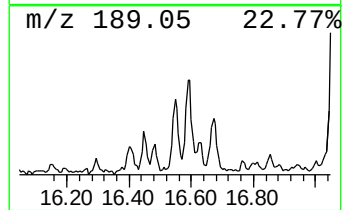
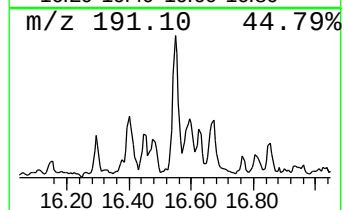
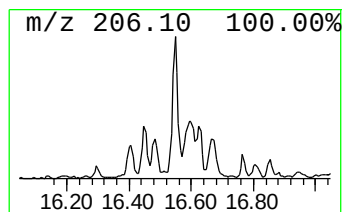
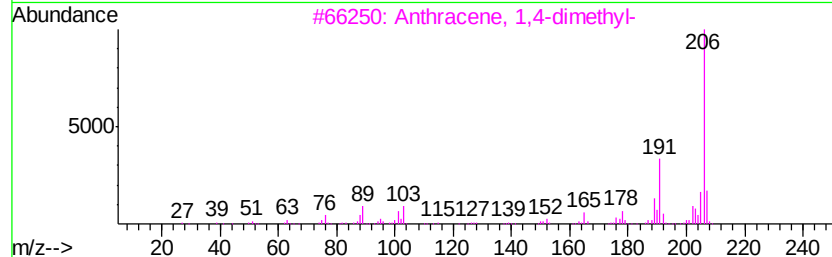
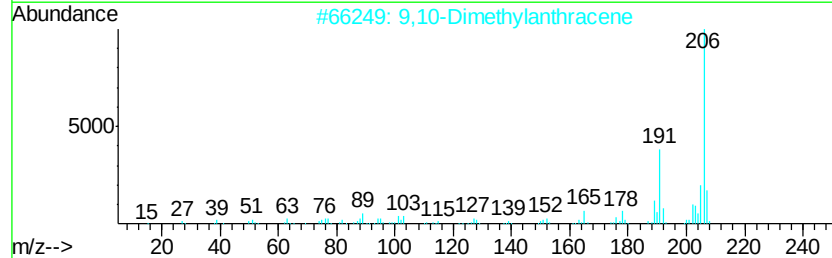
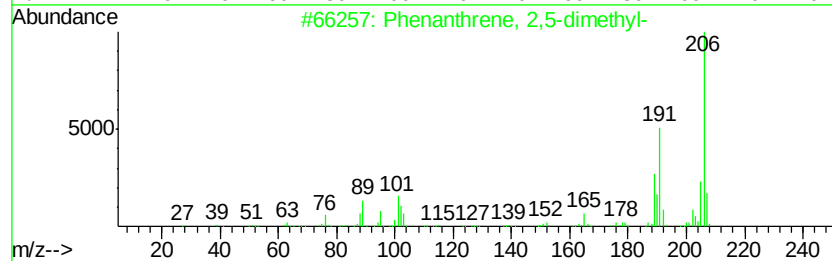
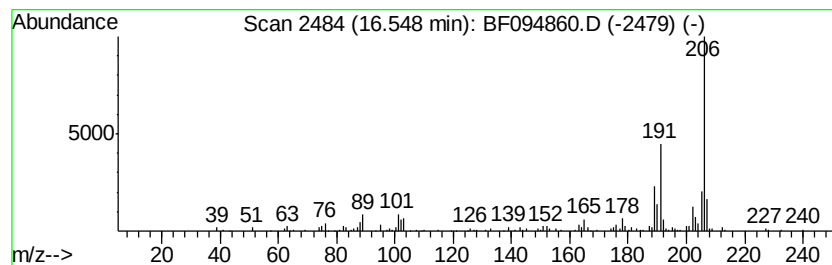
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.55 | 7.14 ng | 211090 | Phenanthrene-d10 | 14.97 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 97   |
| 2    |    |   | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 93   |
| 3    |    |   | Anthracene, 1,4-dimethyl-   | 206 | C16H14  | 000781-92-0 | 93   |
| 4    |    |   | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 93   |
| 5    |    |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

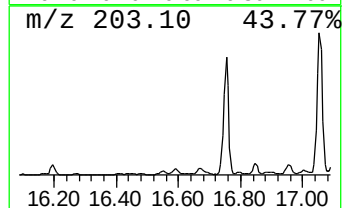
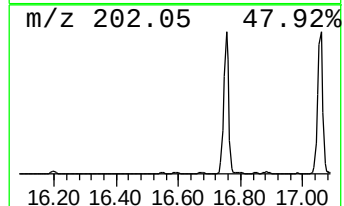
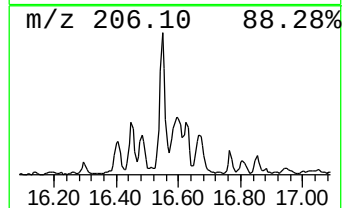
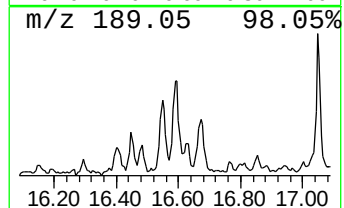
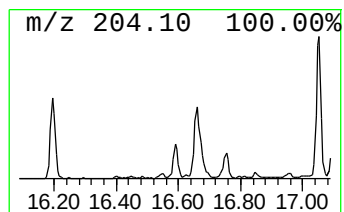
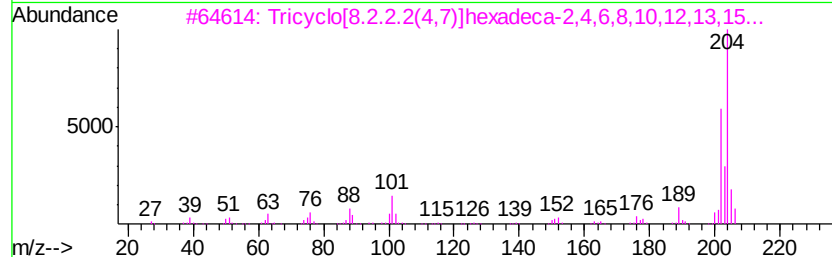
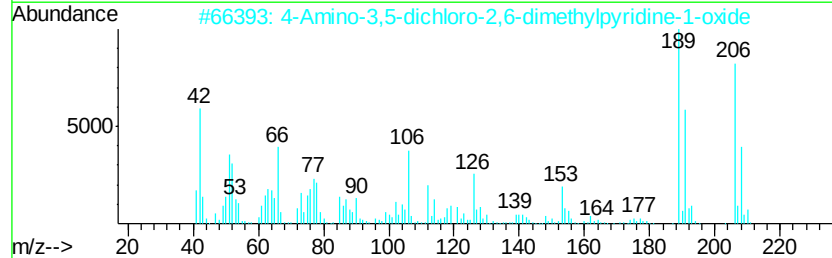
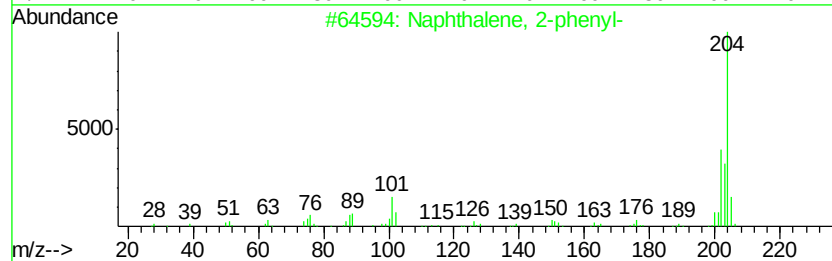
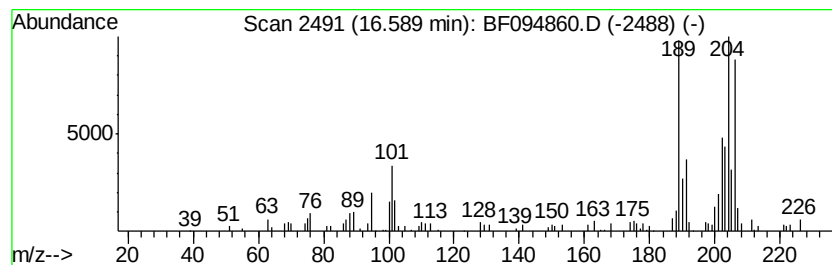
Instrument :  
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ClientSampleId :  
TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 unknown16.59 Concentration Rank 16

| R.T.      | EstConc                             | Area   | Relative to ISTD |              | R.T.  |
|-----------|-------------------------------------|--------|------------------|--------------|-------|
| 16.59     | 4.15 ng                             | 122683 | Phenanthrene-d10 |              | 14.97 |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual  |
| 1         | Naphthalene, 2-phenyl-              | 204    | C16H12           | 000612-94-2  | 38    |
| 2         | 4-Amino-3,5-dichloro-2,6-dimethy... | 206    | C7H8Cl2N2O       | 1000227-19-9 | 30    |
| 3         | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204    | C16H12           | 006572-60-7  | 30    |
| 4         | [1,1'-Biphenyl]-4-ol, 4'-chloro-    | 204    | C12H9ClO         | 028034-99-3  | 27    |
| 5         | Indeno[2,1-a]indene, 5,10-dihydro-  | 204    | C16H12           | 006543-29-9  | 25    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

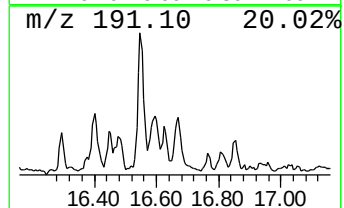
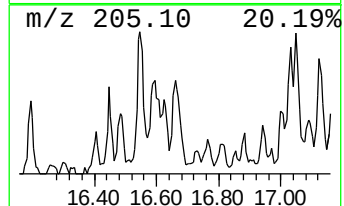
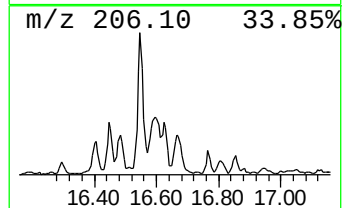
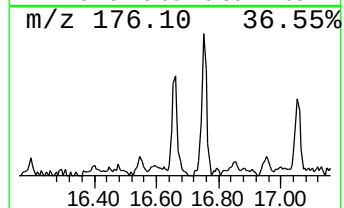
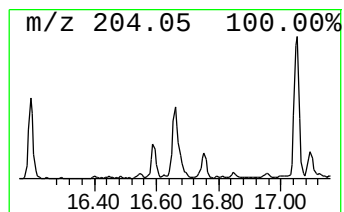
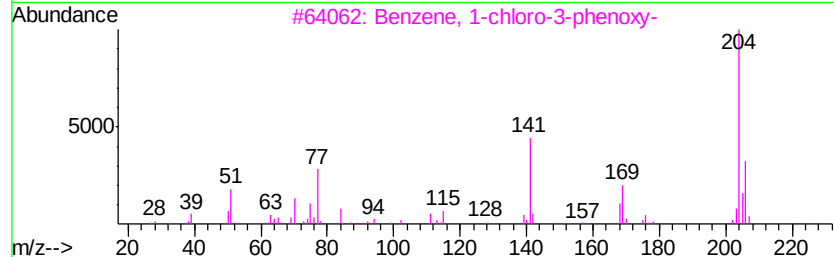
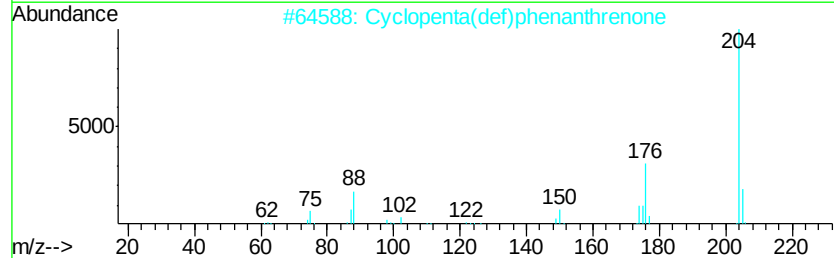
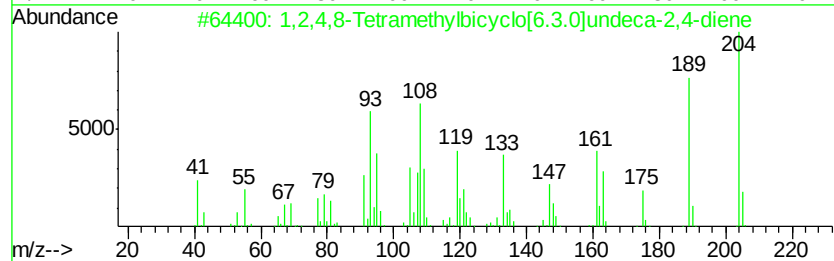
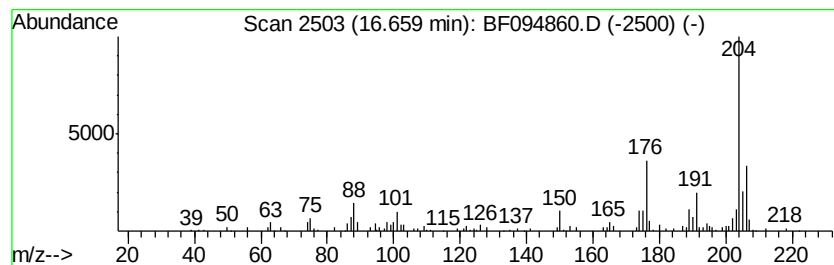
Instrument :  
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ClientSampleId :  
TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.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 1,2,4,8-Tetramethylbicyclo[...] Concentration Rank 8

| R.T.      | EstConc                              | Area   | Relative to ISTD |             | R.T.  |
|-----------|--------------------------------------|--------|------------------|-------------|-------|
| 16.66     | 5.76 ng                              | 170212 | Phenanthrene-d10 |             | 14.97 |
| Hit# of 5 | Tentative ID                         | MW     | MolForm          | CAS#        | Qual  |
| 1         | 1,2,4,8-Tetramethylbicyclo[6.3.0...] | 204    | C15H24           | 137235-51-9 | 87    |
| 2         | Cyclopenta(def)phenanthrenone        | 204    | C15H8O           | 005737-13-3 | 70    |
| 3         | Benzene, 1-chloro-3-phenoxy-         | 204    | C12H9ClO         | 006452-49-9 | 50    |
| 4         | Benzene, 1-chloro-4-phenoxy-         | 204    | C12H9ClO         | 007005-72-3 | 49    |
| 5         | 2-Chloro-4-phenylphenol              | 204    | C12H9ClO         | 000092-04-6 | 47    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

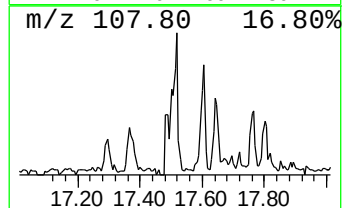
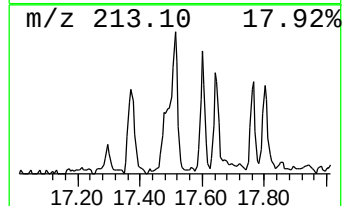
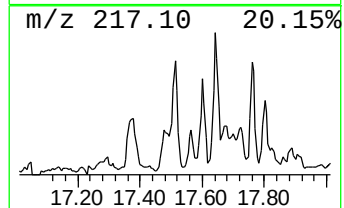
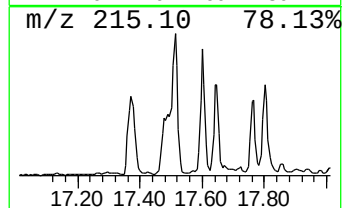
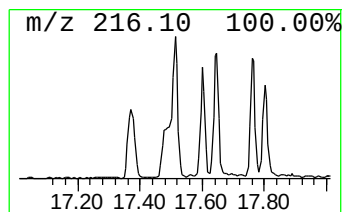
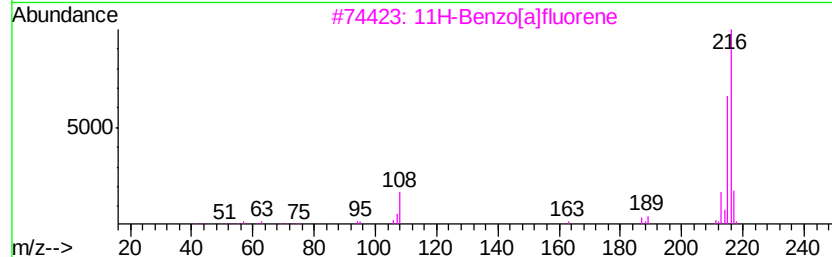
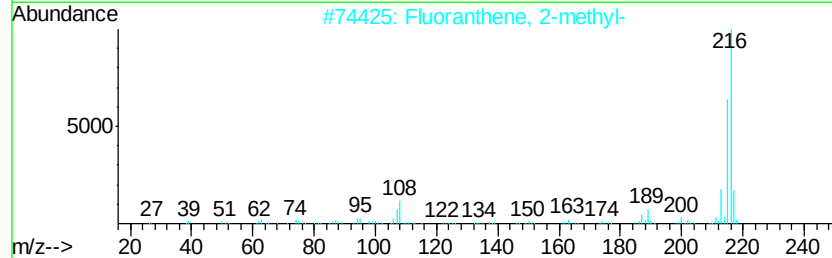
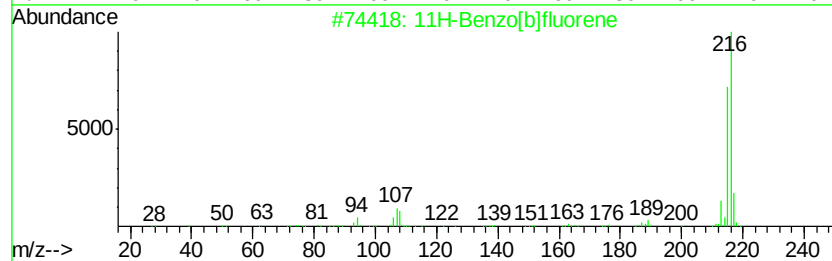
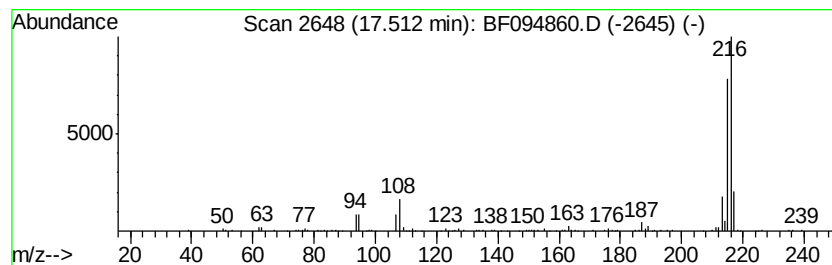
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ClientSampleId :  
TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.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 14

| R.T.    | EstConc | Area                    | Relative to ISTD | R.T.           |
|---------|---------|-------------------------|------------------|----------------|
| 17.51   | 4.37 ng | 288887                  | Chrysene-d12     | 18.64          |
| Hit# of | 5       | Tentative ID            | MW MolForm       | CAS# Qual      |
| 1       |         | 11H-Benzo[b]fluorene    | 216 C17H12       | 000243-17-4 91 |
| 2       |         | Fluoranthene, 2-methyl- | 216 C17H12       | 033543-31-6 87 |
| 3       |         | 11H-Benzo[a]fluorene    | 216 C17H12       | 000238-84-6 80 |
| 4       |         | Pyrene, 1-methyl-       | 216 C17H12       | 002381-21-7 78 |
| 5       |         | 7H-Benzo[c]fluorene     | 216 C17H12       | 000205-12-9 72 |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

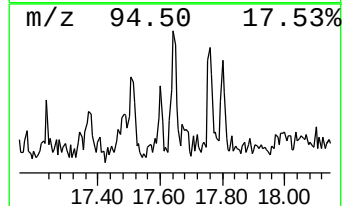
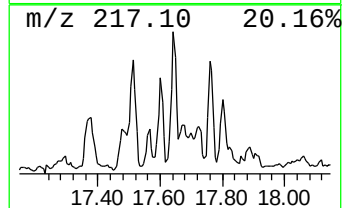
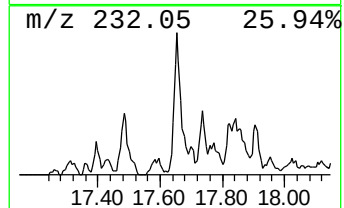
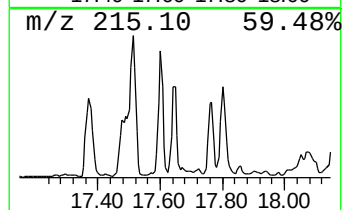
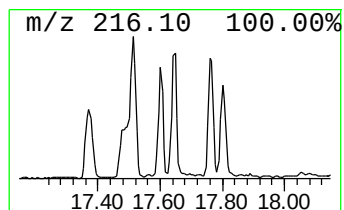
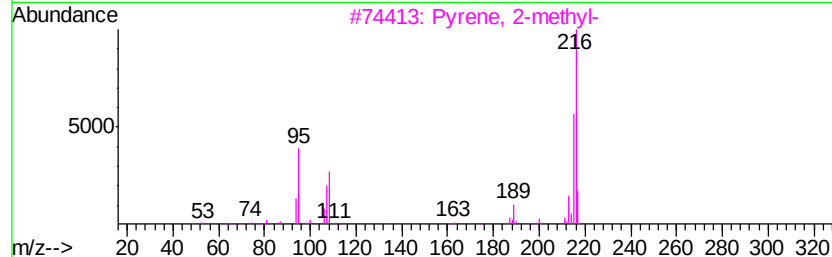
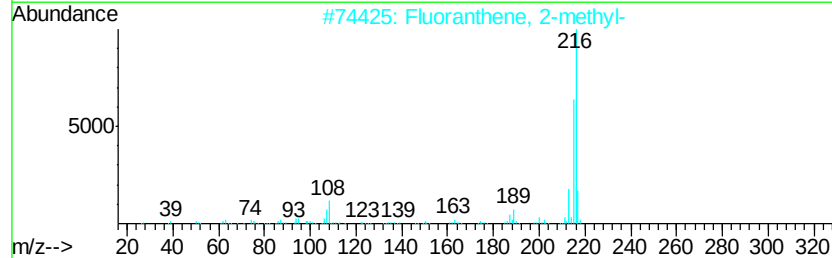
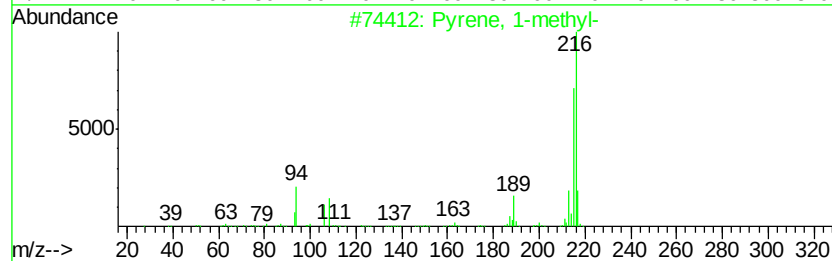
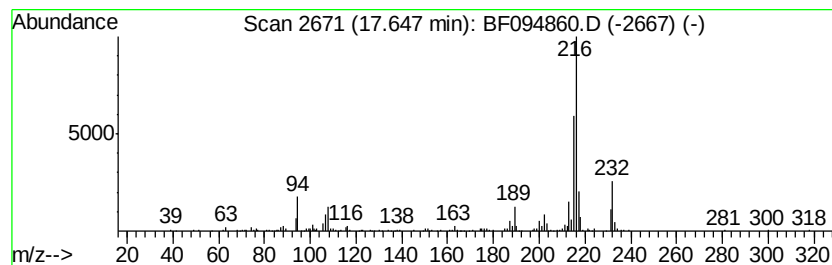
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ClientSampleId :  
TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 14 Pyrene, 1-methyl- Concentration Rank 13

| R.T.    | EstConc | Area                    | Relative to ISTD |         | R.T.        |      |
|---------|---------|-------------------------|------------------|---------|-------------|------|
| 17.65   | 4.62 ng | 305455                  | Chrysene-d12     |         | 18.64       |      |
| Hit# of | 5       | Tentative ID            | MW               | MolForm | CAS#        | Qual |
| 1       |         | Pyrene, 1-methyl-       | 216              | C17H12  | 002381-21-7 | 98   |
| 2       |         | Fluoranthene, 2-methyl- | 216              | C17H12  | 033543-31-6 | 95   |
| 3       |         | Pyrene, 2-methyl-       | 216              | C17H12  | 003442-78-2 | 93   |
| 4       |         | 11H-Benzo[a]fluorene    | 216              | C17H12  | 000238-84-6 | 74   |
| 5       |         | 11H-Benzo[b]fluorene    | 216              | C17H12  | 000243-17-4 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

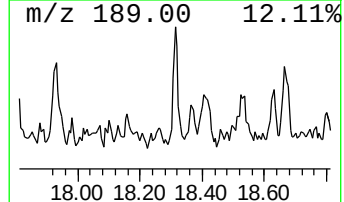
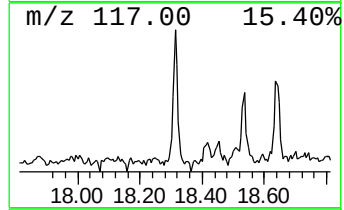
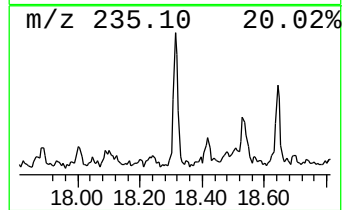
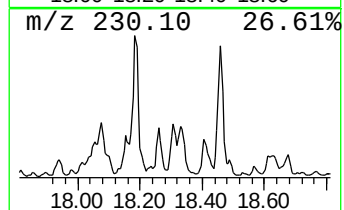
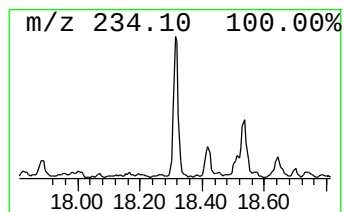
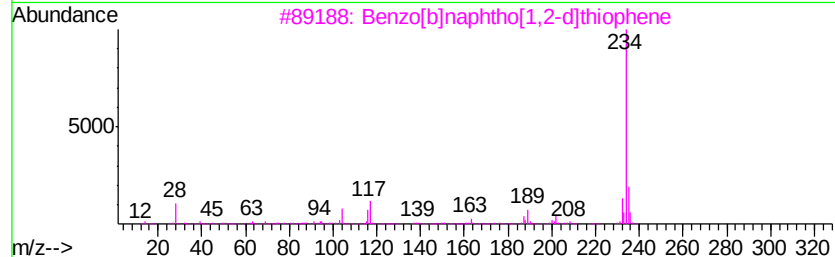
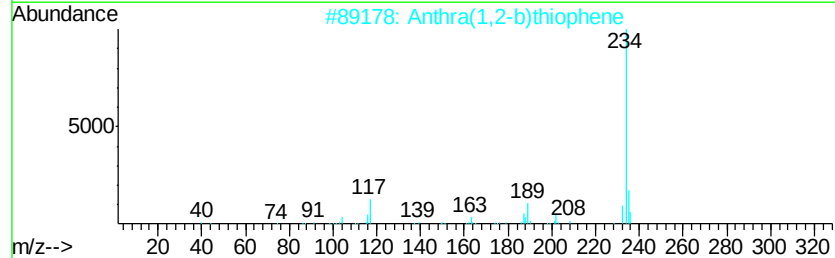
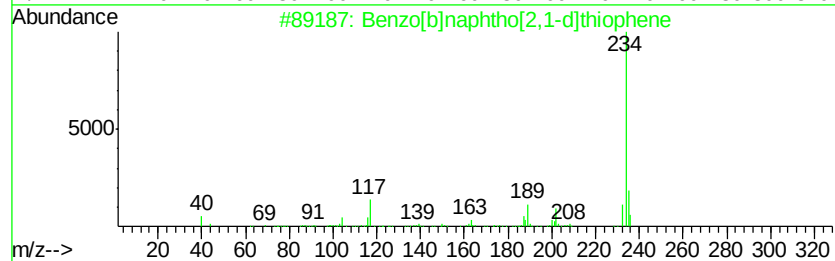
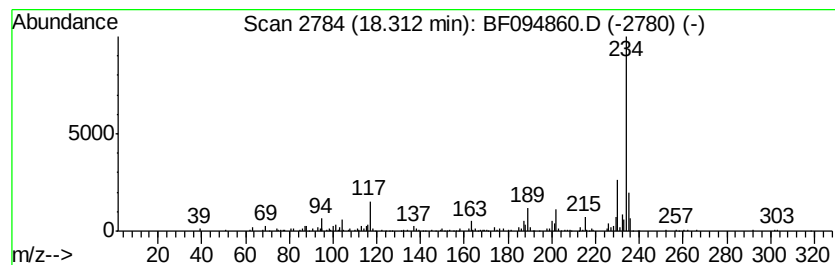
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ClientSampleId :  
TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 20

| R.T.    | EstConc | Area                            | Relative to ISTD | R.T.    |             |      |
|---------|---------|---------------------------------|------------------|---------|-------------|------|
| 18.31   | 3.12 ng | 206258                          | Chrysene-d12     | 18.64   |             |      |
| Hit# of | 5       | Tentative ID                    | MW               | MolForm | CAS#        | Qual |
| 1       |         | Benzo[b]naphtho[2,1-d]thiophene | 234              | C16H10S | 000239-35-0 | 93   |
| 2       |         | Anthra(1,2-b)thiophene          | 234              | C16H10S | 000227-86-1 | 90   |
| 3       |         | Benzo[b]naphtho[1,2-d]thiophene | 234              | C16H10S | 000205-43-6 | 90   |
| 4       |         | Benzo[b]naphtho[2,3-d]thiophene | 234              | C16H10S | 000243-46-9 | 90   |
| 5       |         | Anthra(2,3-b)thiophene          | 234              | C16H10S | 022108-55-0 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP6-COMP(0.5-5FT)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

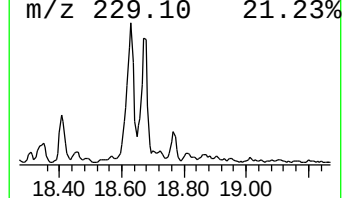
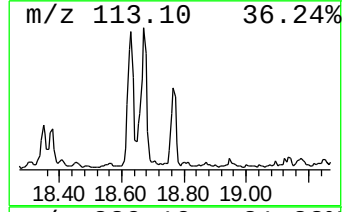
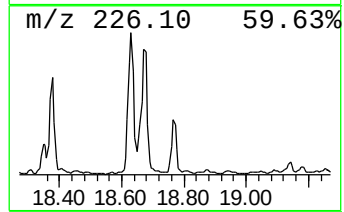
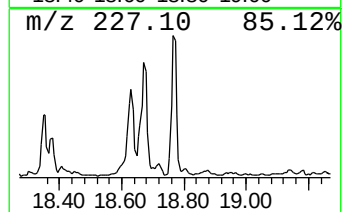
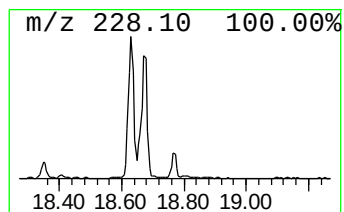
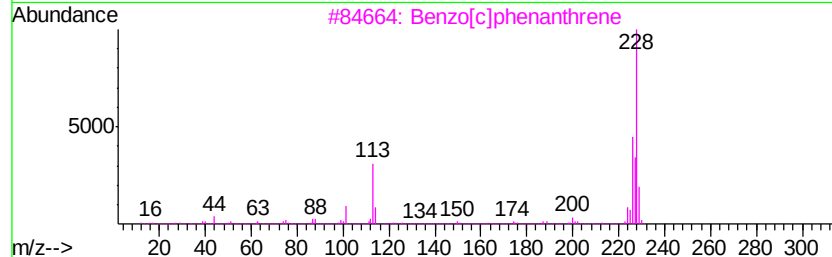
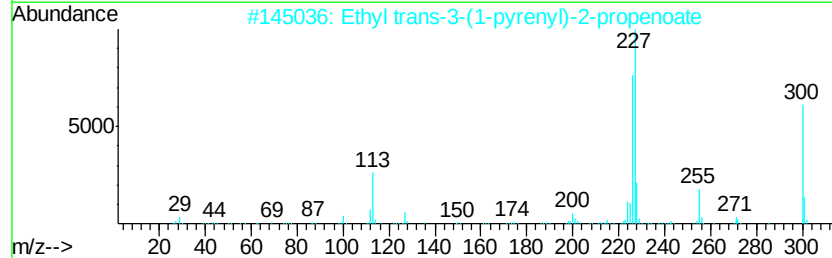
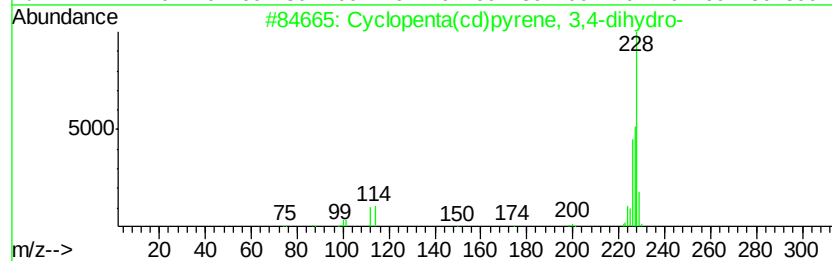
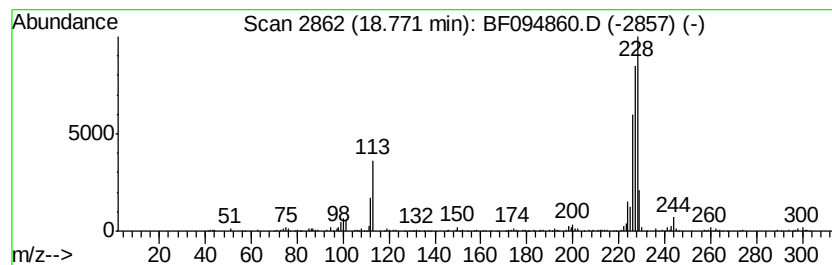
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.77 | 3.80 ng | 251523 | Chrysene-d12     | 18.64 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Cyclopenta(cd)pyrene, 3,4-dihydro-  | 228 | C18H12    | 025732-74-5  | 87   |
| 2    |    |   | Ethyl trans-3-(1-pyrenyl)-2-prop... | 300 | C21H16O2  | 1000326-14-5 | 58   |
| 3    |    |   | Benzo[c]phenanthrene                | 228 | C18H12    | 000195-19-7  | 49   |
| 4    |    |   | Dimethyl-[4-[2-(3-methylisoxazol... | 228 | C14H16N2O | 1000306-39-6 | 47   |
| 5    |    |   | 1,3,5-Triazine-2(1H)-thione, 4-(... | 227 | C9H17N5S  | 023613-02-7  | 46   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

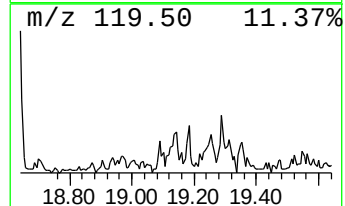
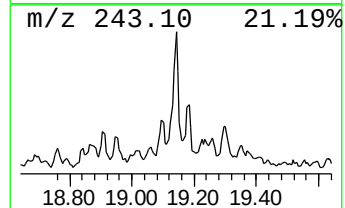
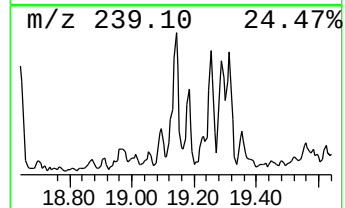
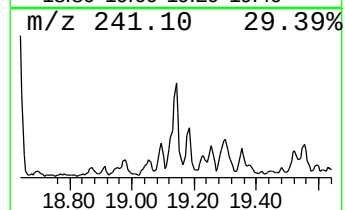
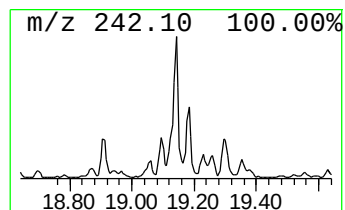
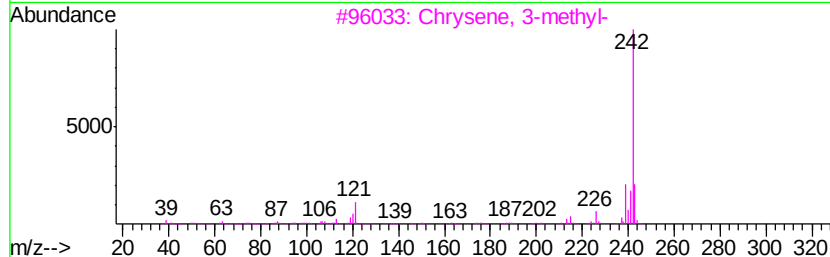
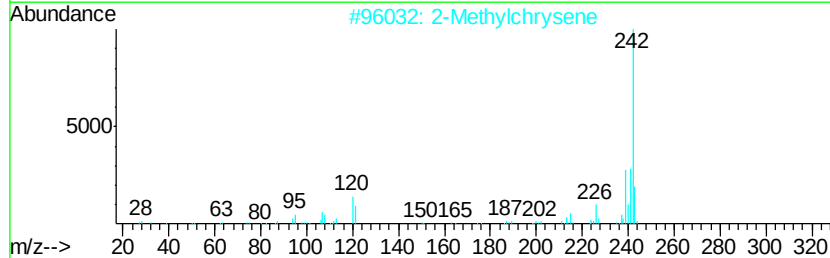
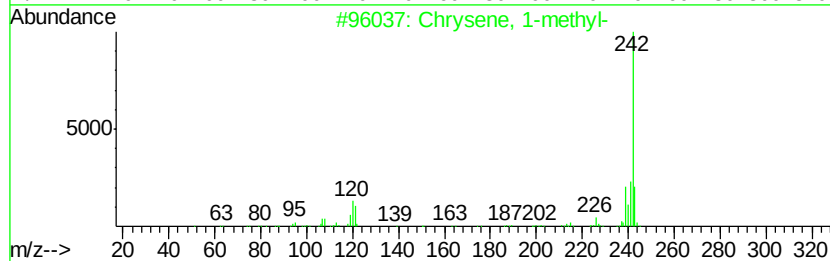
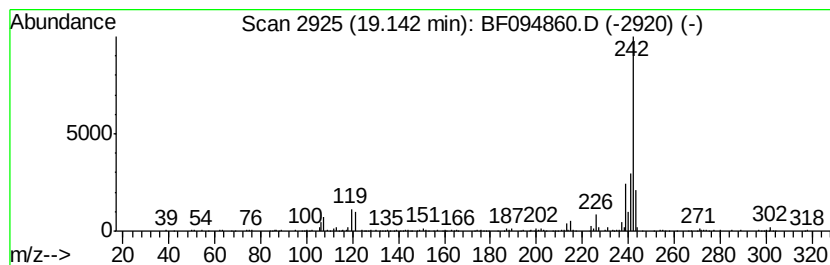
Instrument :  
BNA\_F  
ClientSampleId :  
TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.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 Chrysene, 1-methyl- Concentration Rank 12

| R.T.      | EstConc                      | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------------|--------|------------------|-------------|------|
| 19.14     | 4.84 ng                      | 320269 | Chrysene-d12     | 18.64       |      |
| Hit# of 5 | Tentative ID                 | MW     | MolForm          | CAS#        | Qual |
| 1         | Chrysene, 1-methyl-          | 242    | C19H14           | 003351-28-8 | 96   |
| 2         | 2-Methylchrysene             | 242    | C19H14           | 003351-32-4 | 95   |
| 3         | Chrysene, 3-methyl-          | 242    | C19H14           | 003351-31-3 | 94   |
| 4         | Triphenylene, 2-methyl-      | 242    | C19H14           | 001705-84-6 | 93   |
| 5         | Benz[a]anthracene, 2-methyl- | 242    | C19H14           | 002498-76-2 | 93   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

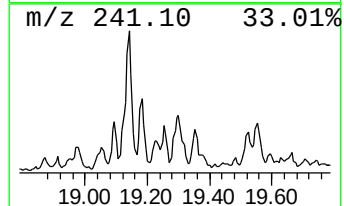
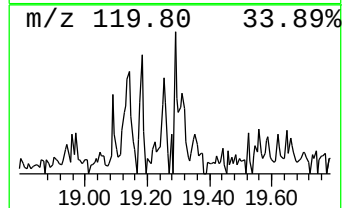
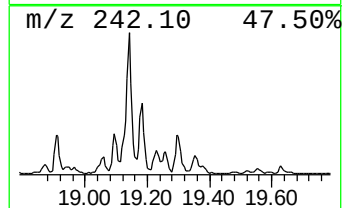
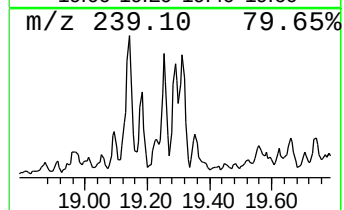
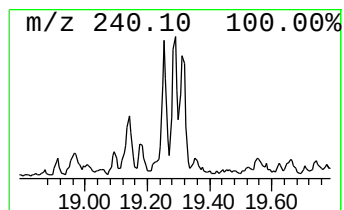
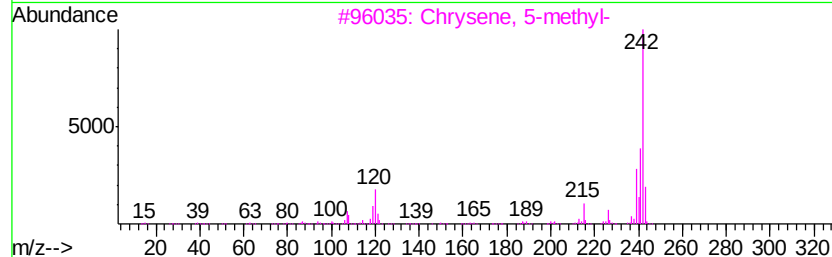
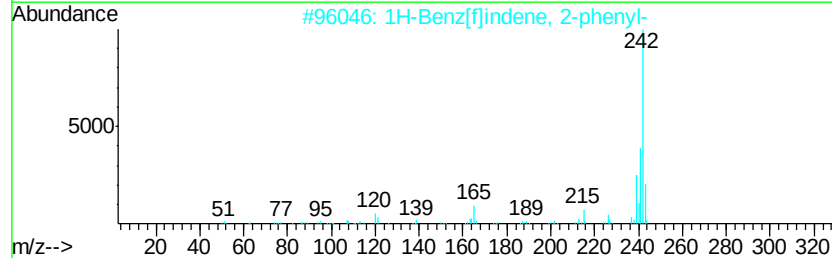
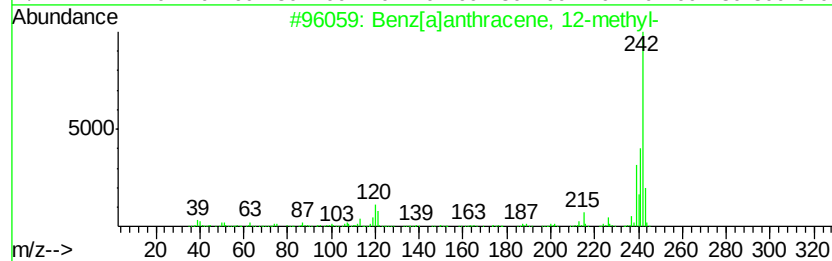
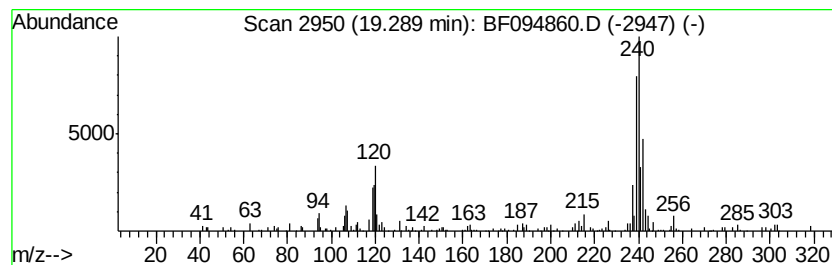
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Benz[a]anthracene, 12-methyl- Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.29 | 3.66 ng | 242210 | Chrysene-d12     | 18.64 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benz[a]anthracene, 12-methyl- | 242 | C19H14  | 002422-79-9  | 50   |
| 2    |    | 1H-Benz[f]indene, 2-phenyl-   | 242 | C19H14  | 1000305-22-4 | 49   |
| 3    |    | Chrysene, 5-methyl-           | 242 | C19H14  | 003697-24-3  | 46   |
| 4    |    | Benz[a]anthracene, 7-methyl-  | 242 | C19H14  | 002541-69-7  | 46   |
| 5    |    | Chrysene, 1-methyl-           | 242 | C19H14  | 003351-28-8  | 46   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
Data File : BF094860.D  
Acq On : 4 May 2017 5:05  
Operator : SJ/MA  
Sample : I2936-17 5X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

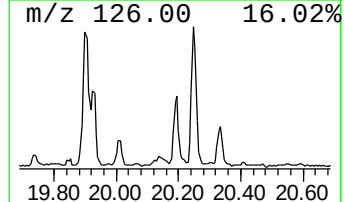
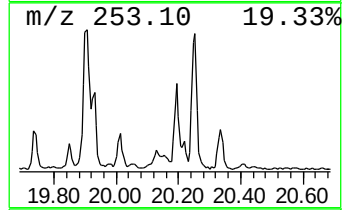
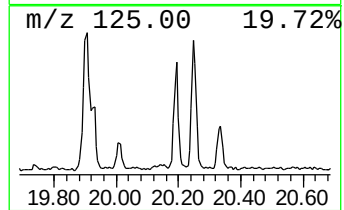
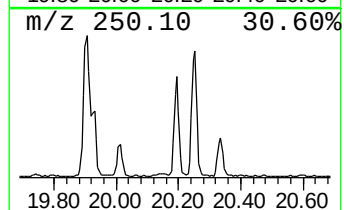
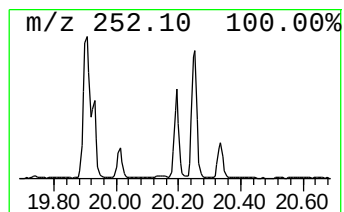
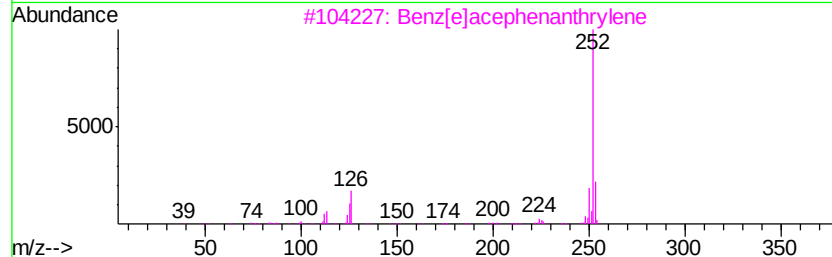
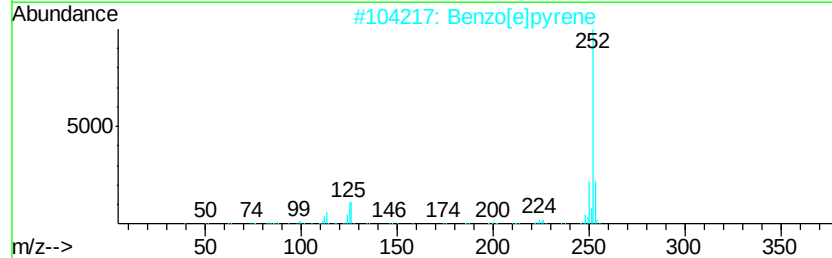
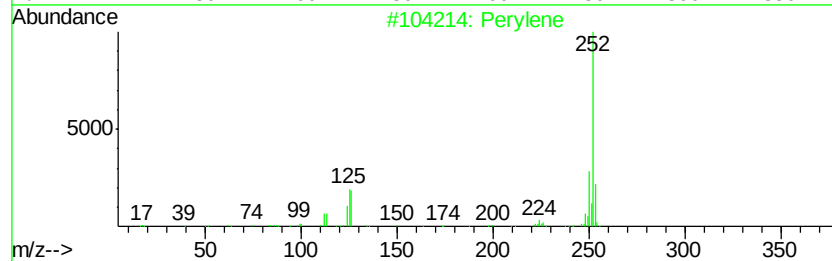
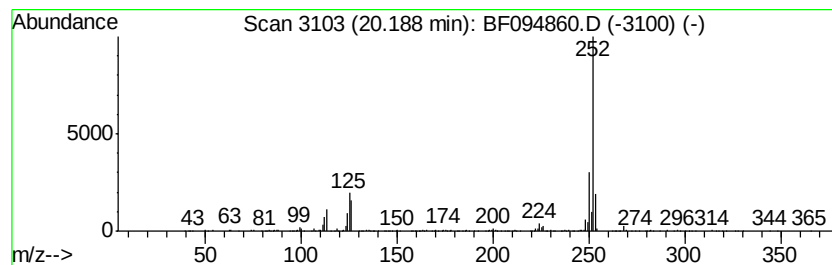
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Perylene Concentration Rank 2

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 20.19 | 22.68 ng | 451267 | Perylene-d12     | 20.31 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Perylene                 | 252 | C20H12  | 000198-55-0 | 99   |
| 2    |    | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 98   |
| 3    |    | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 95   |
| 4    |    | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 93   |
| 5    |    | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050317\  
 Data File : BF094860.D  
 Acq On : 4 May 2017 5:05  
 Operator : SJ/MA  
 Sample : I2936-17 5X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP6-COMP(0.5-5FT)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.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 |
| 2-Pentanone, 4-hy... | 5.00  | 5.7     | ng    | 139479   | 1                     | 7.72  | 492233  | 20.0 |
| unknown7.38          | 7.38  | 25.2    | ng    | 620008   | 1                     | 7.72  | 492233  | 20.0 |
| Phenanthrene, 2-m... | 15.75 | 5.0     | ng    | 147919   | 4                     | 14.97 | 591277  | 20.0 |
| Phenanthrene, 1-m... | 15.79 | 6.7     | ng    | 197655   | 4                     | 14.97 | 591277  | 20.0 |
| 1H-Cyclopropa[l]p... | 15.86 | 3.2     | ng    | 94901    | 4                     | 14.97 | 591277  | 20.0 |
| 4H-Cyclopenta[def... | 15.90 | 10.1    | ng    | 299266   | 4                     | 14.97 | 591277  | 20.0 |
| 1H-Indene, 2-phenyl- | 15.94 | 4.9     | ng    | 143542   | 4                     | 14.97 | 591277  | 20.0 |
| 9,10-Bis(bromomet... | 16.19 | 4.3     | ng    | 126116   | 4                     | 14.97 | 591277  | 20.0 |
| Phenanthrene, 2,5... | 16.55 | 7.1     | ng    | 211090   | 4                     | 14.97 | 591277  | 20.0 |
| unknown16.59         | 16.59 | 4.2     | ng    | 122683   | 4                     | 14.97 | 591277  | 20.0 |
| 1,2,4,8-Tetrameth... | 16.66 | 5.8     | ng    | 170212   | 4                     | 14.97 | 591277  | 20.0 |
| 11H-Benzo[b]fluorene | 17.51 | 4.4     | ng    | 288887   | 5                     | 18.64 | 1322400 | 20.0 |
| Pyrene, 1-methyl-    | 17.65 | 4.6     | ng    | 305455   | 5                     | 18.64 | 1322400 | 20.0 |
| Benzo[b]naphtho[2... | 18.31 | 3.1     | ng    | 206258   | 5                     | 18.64 | 1322400 | 20.0 |
| Cyclopenta(cd)pyr... | 18.77 | 3.8     | ng    | 251523   | 5                     | 18.64 | 1322400 | 20.0 |
| Chrysene, 1-methyl-  | 19.14 | 4.8     | ng    | 320269   | 5                     | 18.64 | 1322400 | 20.0 |
| Benz[a]anthracene... | 19.29 | 3.7     | ng    | 242210   | 5                     | 18.64 | 1322400 | 20.0 |
| Perylene             | 20.19 | 22.7    | ng    | 451267   | 6                     | 20.31 | 398029  | 20.0 |