

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM042225\  
 Data File : BM050004.D  
 Acq On : 22 Apr 2025 20:24  
 Operator : RC/JU  
 Sample : Q1842-31 2X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PL-714-COMP-13

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM050004.D\data.ms

| 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         | 4.887       | 318           | 323         | 331          | rBV      | 298256         | 424433        | 6.27%           | 0.579%        |
| 2         | 5.357       | 397           | 403         | 419          | rBV      | 1330783        | 2051224       | 30.29%          | 2.799%        |
| 3         | 5.963       | 501           | 506         | 515          | rVB      | 52784          | 88321         | 1.30%           | 0.121%        |
| 4         | 6.951       | 666           | 674         | 692          | rBV      | 1196288        | 2183144       | 32.23%          | 2.980%        |
| 5         | 7.763       | 805           | 812         | 822          | rBV      | 1082924        | 1751326       | 25.86%          | 2.390%        |
| 6         | 8.922       | 1002          | 1009        | 1020         | rBV      | 768808         | 1389119       | 20.51%          | 1.896%        |
| 7         | 10.557      | 1278          | 1287        | 1295         | rBV      | 1255721        | 2222412       | 32.81%          | 3.033%        |
| 8         | 13.027      | 1700          | 1707        | 1720         | rBV      | 2445858        | 3718170       | 54.90%          | 5.074%        |
| 9         | 14.133      | 1889          | 1895        | 1909         | rVB      | 146692         | 266849        | 3.94%           | 0.364%        |
| 10        | 14.410      | 1934          | 1942        | 1949         | rBV      | 2065205        | 3009283       | 44.43%          | 4.107%        |
| 11        | 14.474      | 1949          | 1953        | 1962         | rVB      | 111160         | 179817        | 2.65%           | 0.245%        |
| 12        | 14.815      | 2004          | 2011        | 2019         | rBV      | 62804          | 114952        | 1.70%           | 0.157%        |
| 13        | 15.462      | 2116          | 2121        | 2133         | rVB      | 196086         | 296304        | 4.37%           | 0.404%        |
| 14        | 15.768      | 2167          | 2173        | 2187         | rBV      | 546953         | 815748        | 12.04%          | 1.113%        |
| 15        | 15.904      | 2187          | 2196        | 2210         | rBV      | 1922016        | 2913862       | 43.02%          | 3.977%        |
| 16        | 16.139      | 2231          | 2236        | 2242         | rBV4     | 40997          | 76680         | 1.13%           | 0.105%        |
| 17        | 16.333      | 2264          | 2269        | 2278         | rVB      | 99279          | 159913        | 2.36%           | 0.218%        |
| 18        | 16.815      | 2347          | 2351        | 2358         | rVB      | 56925          | 93703         | 1.38%           | 0.128%        |
| 19        | 16.974      | 2374          | 2378        | 2388         | rVB      | 103703         | 158788        | 2.34%           | 0.217%        |
| 20        | 17.074      | 2389          | 2395        | 2400         | rBV7     | 35852          | 73800         | 1.09%           | 0.101%        |
| 21        | 17.156      | 2403          | 2409        | 2413         | rVV      | 2477977        | 3563358       | 52.61%          | 4.863%        |
| 22        | 17.198      | 2413          | 2416        | 2423         | rVV      | 2500562        | 3363033       | 49.65%          | 4.590%        |
| 23        | 17.292      | 2427          | 2432        | 2438         | rVV      | 420848         | 630611        | 9.31%           | 0.861%        |
| 24        | 17.356      | 2439          | 2443        | 2449         | rVB2     | 39927          | 71241         | 1.05%           | 0.097%        |
| 25        | 17.562      | 2471          | 2478        | 2486         | rBV      | 166419         | 341365        | 5.04%           | 0.466%        |
| 26        | 17.674      | 2492          | 2497        | 2504         | rVB2     | 59626          | 98778         | 1.46%           | 0.135%        |
| 27        | 18.056      | 2554          | 2562        | 2564         | rBV2     | 497066         | 884355        | 13.06%          | 1.207%        |
| 28        | 18.162      | 2577          | 2580        | 2585         | rVB      | 76823          | 97428         | 1.44%           | 0.133%        |
| 29        | 18.233      | 2586          | 2592        | 2595         | rBV2     | 438277         | 711044        | 10.50%          | 0.970%        |
| 30        | 18.533      | 2639          | 2643        | 2647         | rBV      | 173308         | 218263        | 3.22%           | 0.298%        |
| 31        | 18.580      | 2647          | 2651        | 2656         | rVB      | 228191         | 312115        | 4.61%           | 0.426%        |
| 32        | 18.956      | 2711          | 2715        | 2718         | rBV      | 77782          | 117846        | 1.74%           | 0.161%        |
| 33        | 19.098      | 2735          | 2739        | 2746         | rVB2     | 114145         | 185532        | 2.74%           | 0.253%        |
| 34        | 19.215      | 2754          | 2759        | 2766         | rBV      | 5131285        | 6772844       | 100.00%         | 9.243%        |
| 35        | 19.462      | 2798          | 2801        | 2805         | rBV      | 84854          | 99860         | 1.47%           | 0.136%        |
| 36        | 19.580      | 2811          | 2821        | 2829         | rBV      | 4325955        | 6495381       | 95.90%          | 8.865%        |

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Instrument :  
 BNA\_M  
 ClientSampleId :  
 PL-714-COMP-13

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 3 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 37 | 19.656 | 2830 | 2834 | 2839 | rVB2 | 120142  | 183559  | 2.71%  | 0.251% |
| 38 | 19.780 | 2849 | 2855 | 2860 | rBV  | 4258213 | 5271205 | 77.83% | 7.194% |
| 39 | 20.074 | 2902 | 2905 | 2911 | rVB  | 487926  | 701399  | 10.36% | 0.957% |
| 40 | 20.180 | 2919 | 2923 | 2927 | rBV  | 374211  | 501986  | 7.41%  | 0.685% |
| 41 | 20.233 | 2930 | 2932 | 2936 | rVB  | 209801  | 277213  | 4.09%  | 0.378% |
| 42 | 21.080 | 3073 | 3076 | 3082 | rVB3 | 365405  | 641671  | 9.47%  | 0.876% |
| 43 | 21.397 | 3123 | 3130 | 3134 | rBV2 | 3176266 | 6554406 | 96.77% | 8.945% |
| 44 | 21.439 | 3134 | 3137 | 3149 | rVB  | 1538860 | 2387688 | 35.25% | 3.259% |
| 45 | 23.456 | 3474 | 3480 | 3487 | rBV  | 1087933 | 3046739 | 44.98% | 4.158% |
| 46 | 24.127 | 3589 | 3594 | 3607 | rVB  | 689550  | 1614755 | 23.84% | 2.204% |
| 47 | 24.262 | 3611 | 3617 | 3628 | rVB  | 983900  | 2418120 | 35.70% | 3.300% |
| 48 | 24.403 | 3634 | 3641 | 3649 | rBV  | 1568346 | 3722276 | 54.96% | 5.080% |

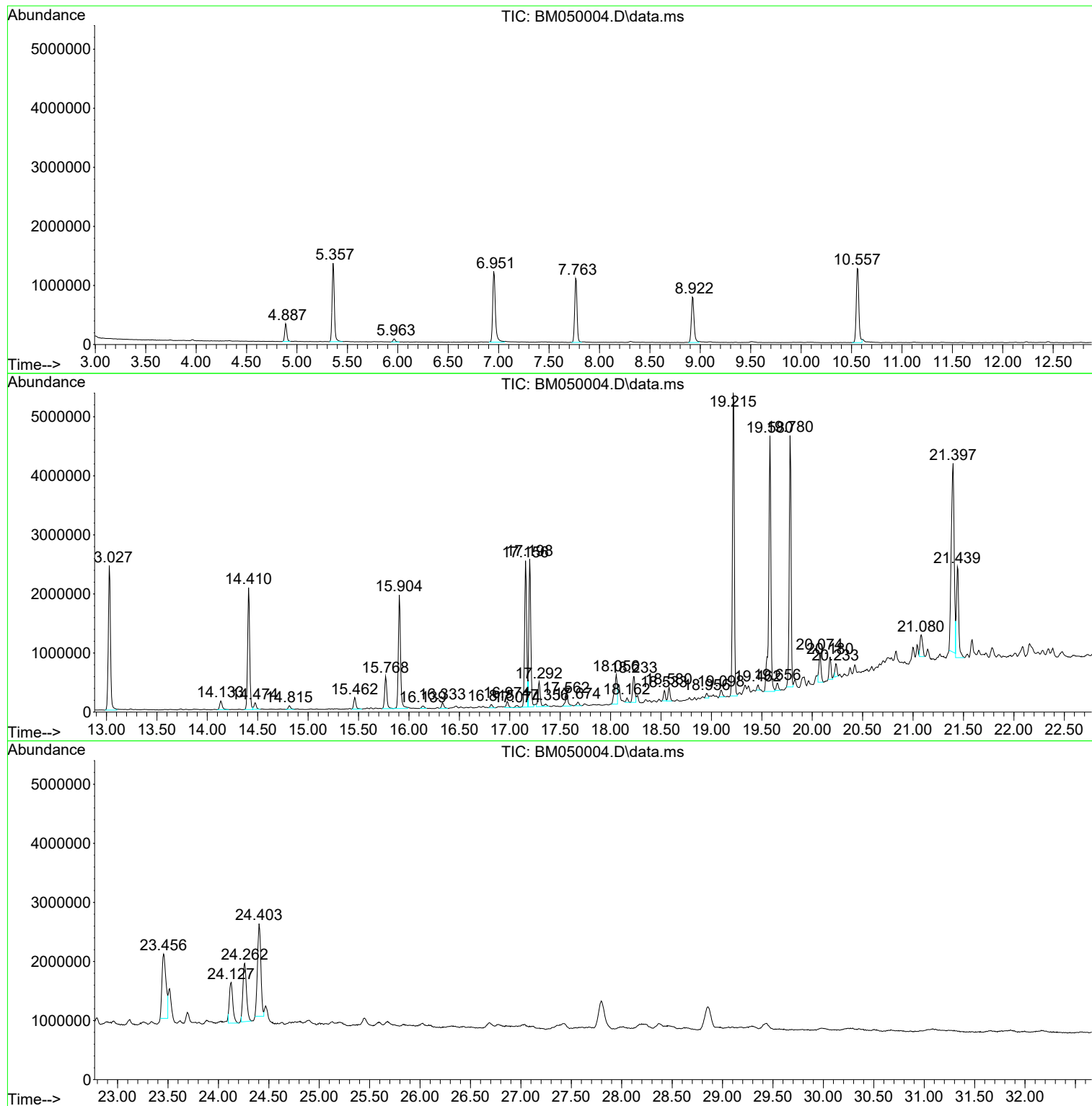
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Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM042225\  
Data File : BM050004.D  
Acq On : 22 Apr 2025 20:24  
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Sample : Q1842-31 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-13

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM042225\  
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Sample : Q1842-31 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-13

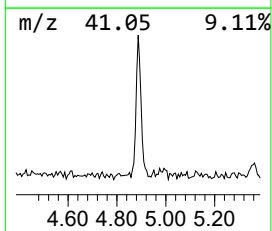
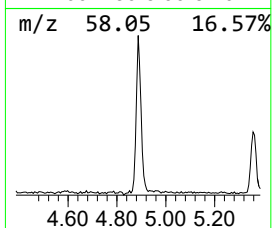
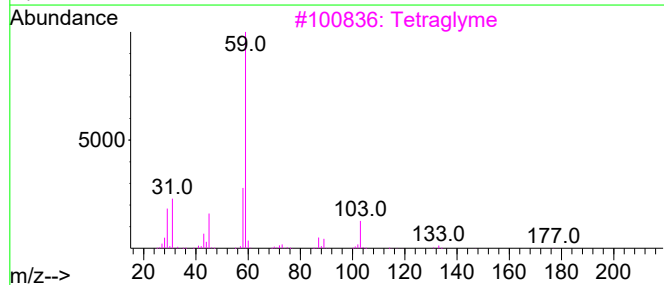
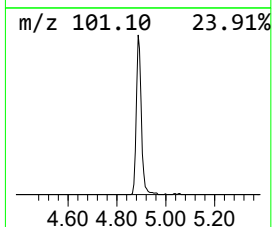
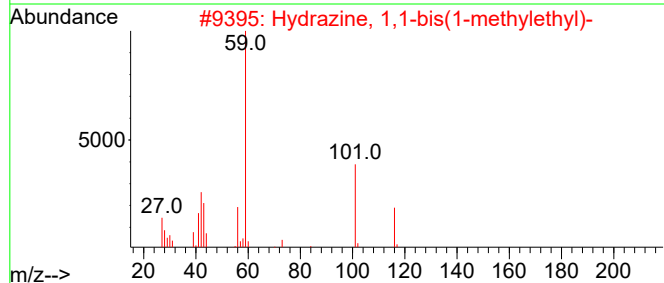
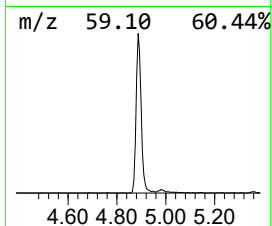
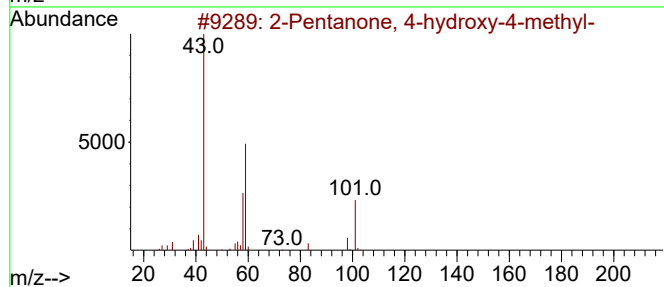
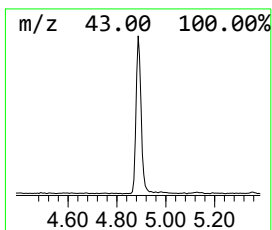
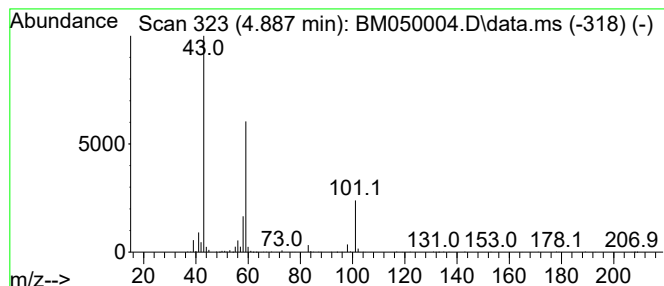
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc | Area   | Relative to ISTD       | R.T.  |
|-------|---------|--------|------------------------|-------|
| 4.887 | 4.85 ng | 424433 | 1,4-Dichlorobenzene-d4 | 7.763 |

| Hit# | of                                 | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 2-Pentanone, 4-hydroxy-4-methyl-   | 116 | C6H12O2      | 000123-42-2 | 56      |      |      |
| 2    | Hydrazine, 1,1-bis(1-methylethyl)- | 116 | C6H16N2      | 000921-14-2 | 28      |      |      |
| 3    | Tetraglyme                         | 222 | C10H22O5     | 000143-24-8 | 23      |      |      |
| 4    | 2-Butanol, 1-methoxy-              | 104 | C5H12O2      | 053778-73-7 | 17      |      |      |
| 5    | 2,5,8,11-Tetraoxadodecane          | 178 | C8H18O4      | 000112-49-2 | 17      |      |      |



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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-13

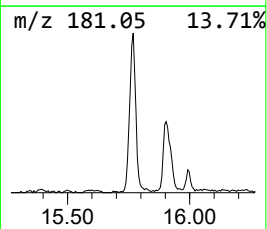
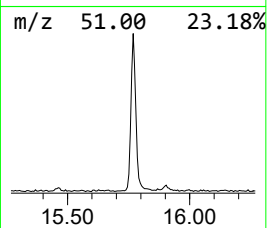
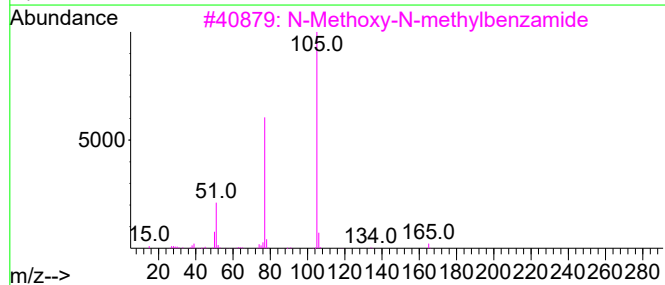
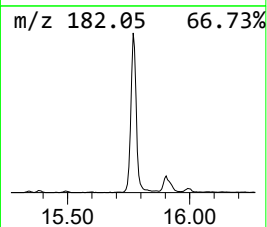
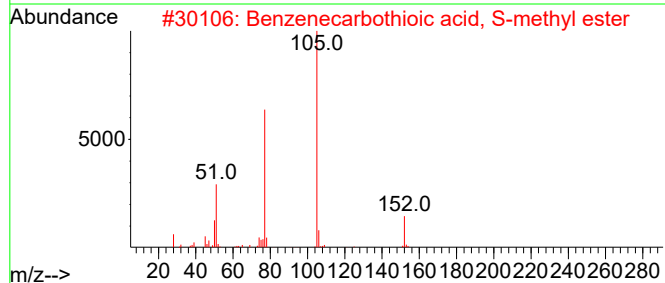
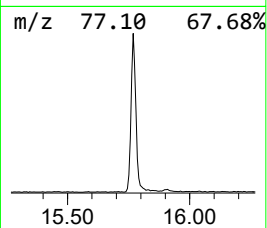
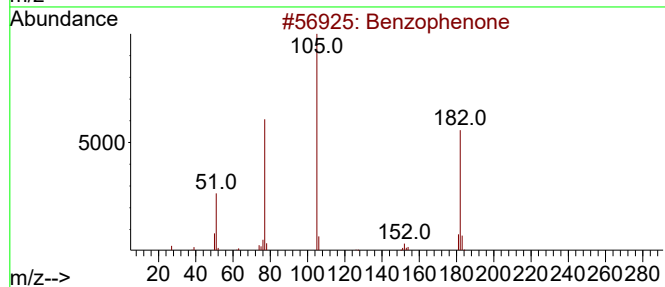
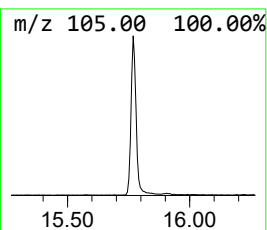
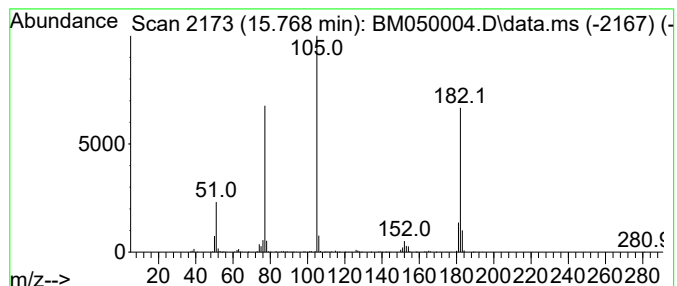
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Benzophenone Concentration Rank 2

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 15.768 | 5.42 ng | 815748 | Acenaphthene-d10 | 14.410 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Benzophenone                        | 182 | C13H10O  | 000119-61-9 | 96   |
| 2    |    |   | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS   | 005925-68-8 | 47   |
| 3    |    |   | N-Methoxy-N-methylbenzamide         | 165 | C9H11NO2 | 006919-61-5 | 46   |
| 4    |    |   | Benzenebutanoic acid, .gamma.-oxo-  | 178 | C10H10O3 | 002051-95-8 | 43   |
| 5    |    |   | Benzenebutanoic acid, .gamma.-ox... | 192 | C11H12O3 | 025333-24-8 | 43   |



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BNA\_M  
ClientSampleId :  
PL-714-COMP-13

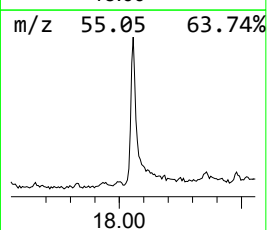
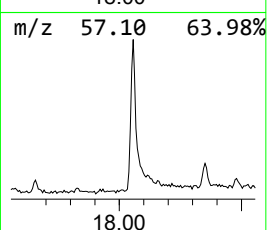
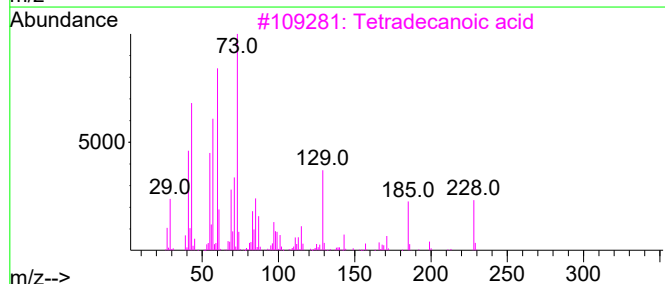
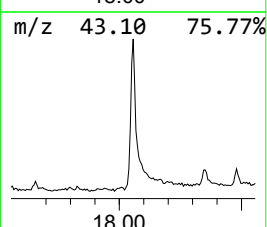
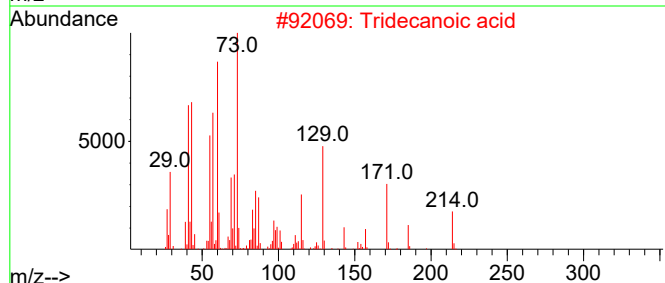
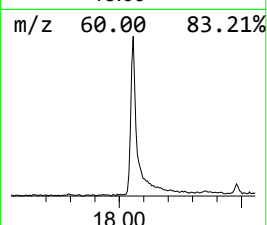
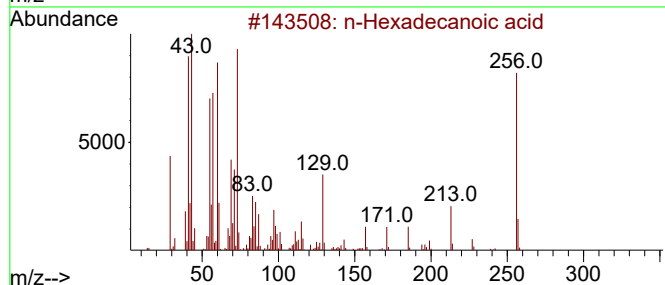
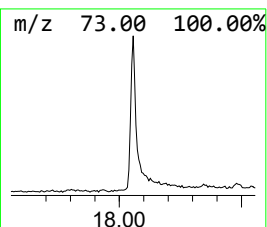
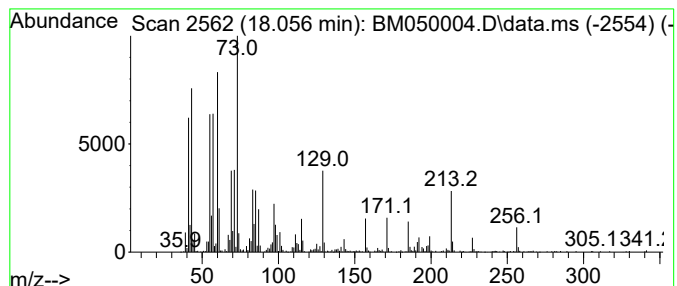
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.056 | 4.96 ng | 884355 | Phenanthrene-d10 | 17.157 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 93   |
| 3    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 93   |
| 4    |    |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 91   |
| 5    |    |   | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 87   |



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Instrument :  
BNA\_M  
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PL-714-COMP-13

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

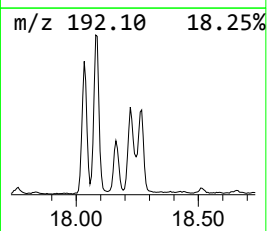
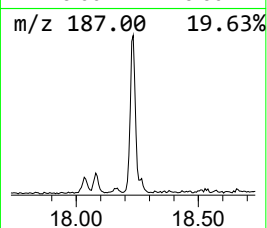
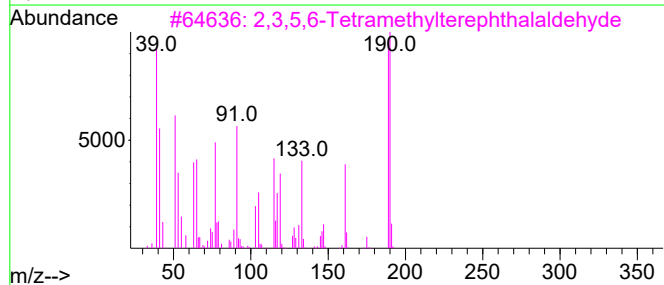
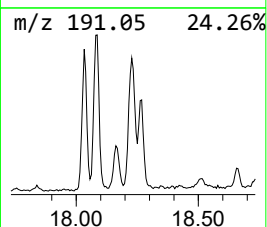
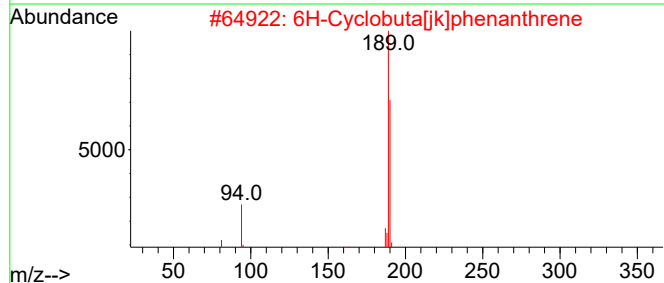
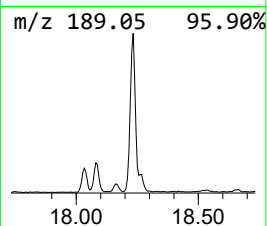
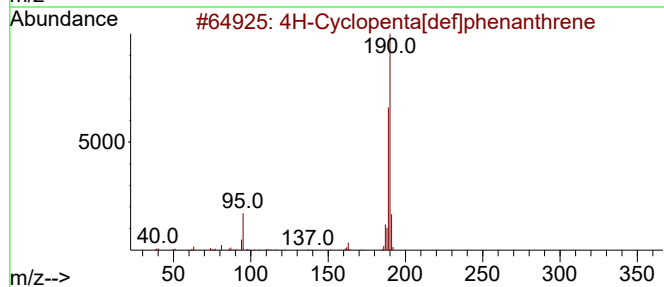
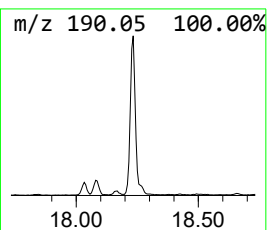
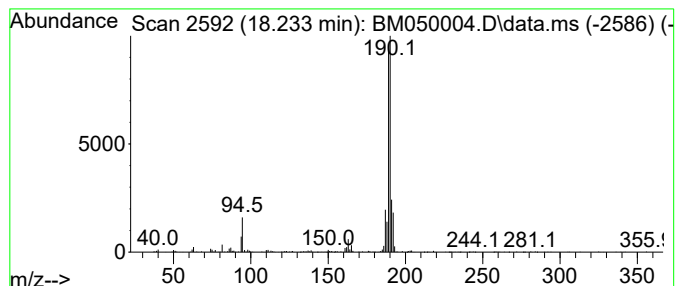
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.233 | 3.99 ng | 711044 | Phenanthrene-d10 | 17.157 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10   | 000203-64-5 | 87   |
| 2    |    |   | 6H-Cyclobuta[jk]phenanthrene        | 190 | C15H10   | 083469-43-6 | 56   |
| 3    |    |   | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 50   |
| 4    |    |   | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4 | 069286-06-2 | 45   |
| 5    |    |   | Methyl diselenide                   | 190 | C2H6Se2  | 007101-31-7 | 27   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM042225\  
Data File : BM050004.D  
Acq On : 22 Apr 2025 20:24  
Operator : RC/JU  
Sample : Q1842-31 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-13

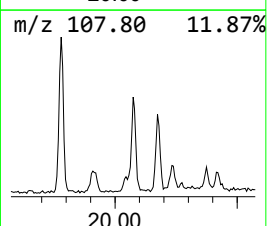
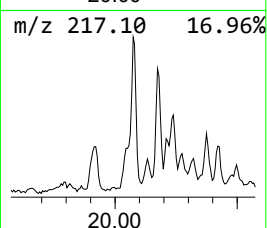
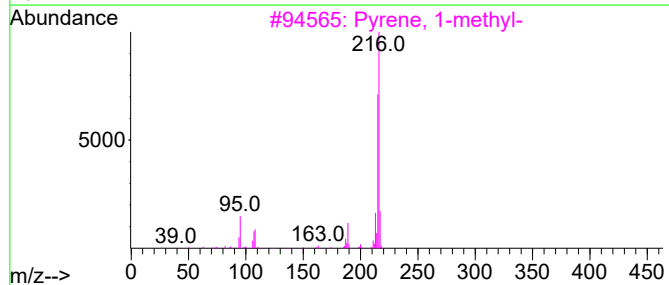
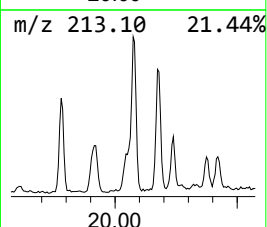
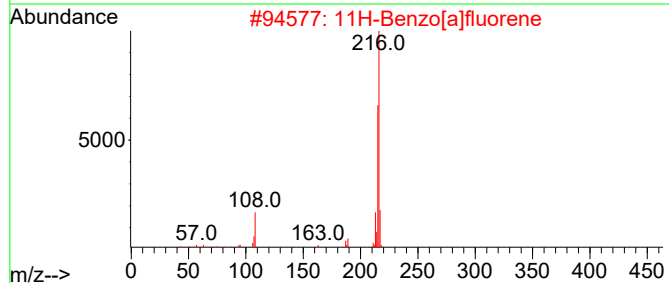
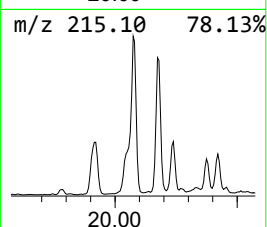
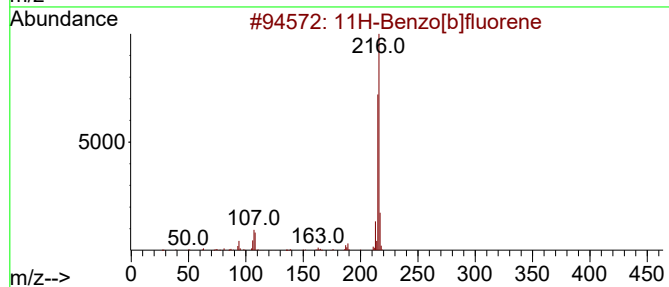
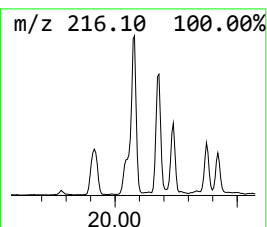
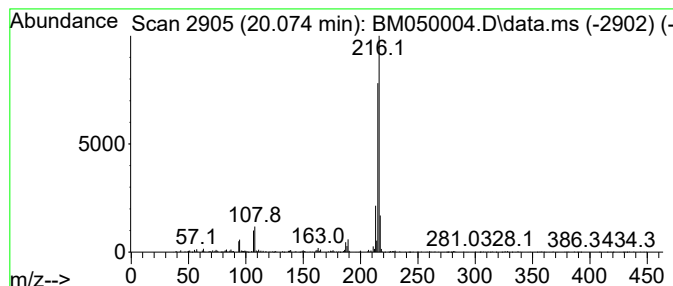
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 11H-Benzo[b]fluorene Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 20.074 | 2.14 ng | 701399 | Chrysene-d12     | 21.397 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 94   |
| 2    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 92   |
| 3    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 90   |
| 4    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 86   |
| 5    |    |   | Pyrene, 4-methyl-       | 216 | C17H12  | 003353-12-6 | 60   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM042225\  
Data File : BM050004.D  
Acq On : 22 Apr 2025 20:24  
Operator : RC/JU  
Sample : Q1842-31 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-13

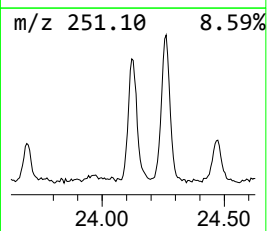
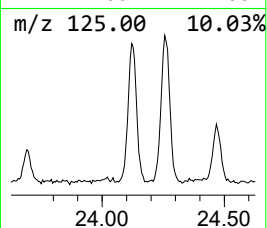
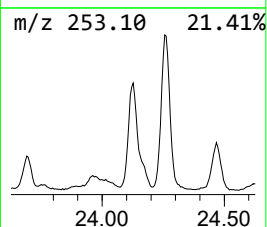
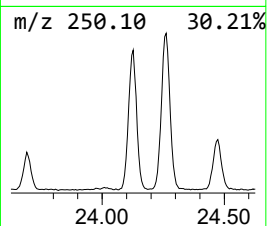
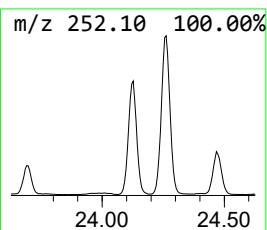
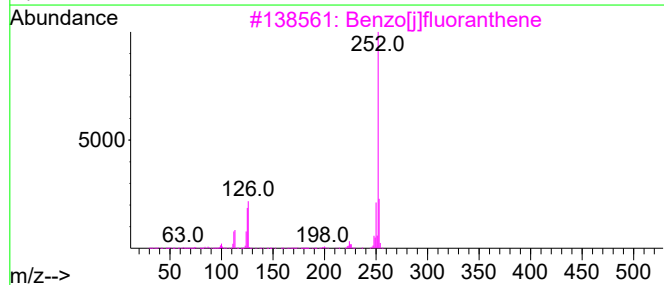
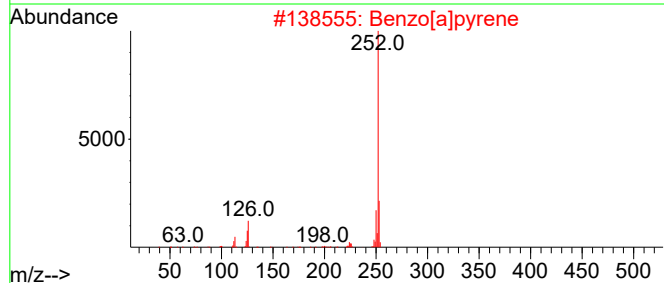
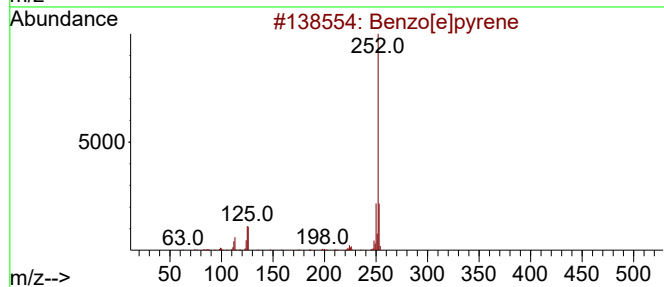
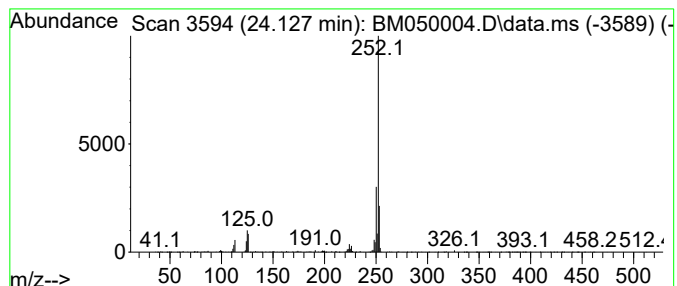
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Benzo[e]pyrene Concentration Rank 1

| R.T.   | EstConc | Area    | Relative to ISTD | R.T.   |
|--------|---------|---------|------------------|--------|
| 24.127 | 8.68 ng | 1614760 | Perylene-d12     | 24.403 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 96   |
| 3    |    |   | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 95   |
| 4    |    |   | Perylene             | 252 | C20H12  | 000198-55-0 | 94   |
| 5    |    |   | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 93   |



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Data File : BM050004.D  
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Operator : RC/JU  
Sample : Q1842-31 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-13

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name    | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|---------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                     |        |         |       |          | #                     | RT     | Resp    | Conc |
| 2-Pentanone, 4-...  | 4.887  | 4.8     | ng    | 424433   | 1                     | 7.763  | 1751330 | 20.0 |
| Benzophenone        | 15.768 | 5.4     | ng    | 815748   | 3                     | 14.410 | 3009280 | 20.0 |
| n-Hexadecanoic ...  | 18.056 | 5.0     | ng    | 884355   | 4                     | 17.157 | 3563360 | 20.0 |
| 4H-Cyclopenta[d...] | 18.233 | 4.0     | ng    | 711044   | 4                     | 17.157 | 3563360 | 20.0 |
| 11H-Benzo[b]flu...  | 20.074 | 2.1     | ng    | 701399   | 5                     | 21.397 | 6554410 | 20.0 |
| Benzo[e]pyrene      | 24.127 | 8.7     | ng    | 1614760  | 6                     | 24.403 | 3722280 | 20.0 |