

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081022\  
 Data File : BM036202.D  
 Acq On : 10 Aug 2022 21:13  
 Operator : CG/JU  
 Sample : N4086-01  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 RLA-4711-WC

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-BM080122.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM036202.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         | 4.716       | 271           | 277         | 291          | rBV2     | 45167          | 175229        | 1.64%           | 0.182%        |
| 2         | 4.940       | 310           | 315         | 319          | rVB      | 78230          | 108626        | 1.02%           | 0.113%        |
| 3         | 5.416       | 389           | 396         | 411          | rBV      | 3777807        | 5431750       | 50.79%          | 5.639%        |
| 4         | 7.034       | 663           | 671         | 684          | rBV      | 3486525        | 5564957       | 52.03%          | 5.777%        |
| 5         | 7.828       | 797           | 806         | 815          | rBV      | 908142         | 1430461       | 13.37%          | 1.485%        |
| 6         | 9.004       | 998           | 1006        | 1021         | rBV      | 2126991        | 3568304       | 33.36%          | 3.704%        |
| 7         | 10.633      | 1273          | 1283        | 1289         | rBV      | 1209068        | 1990959       | 18.61%          | 2.067%        |
| 8         | 13.098      | 1694          | 1702        | 1717         | rBV      | 5359599        | 7758803       | 72.54%          | 8.054%        |
| 9         | 14.198      | 1884          | 1889        | 1898         | rVB      | 98517          | 151066        | 1.41%           | 0.157%        |
| 10        | 14.363      | 1910          | 1917        | 1925         | rBV2     | 52984          | 140925        | 1.32%           | 0.146%        |
| 11        | 14.474      | 1928          | 1936        | 1942         | rVV      | 1720234        | 2532875       | 23.68%          | 2.629%        |
| 12        | 14.533      | 1942          | 1946        | 1954         | rVB      | 166700         | 268428        | 2.51%           | 0.279%        |
| 13        | 14.874      | 1998          | 2004        | 2012         | rBV      | 117575         | 196481        | 1.84%           | 0.204%        |
| 14        | 15.521      | 2108          | 2114        | 2125         | rVB2     | 227880         | 389372        | 3.64%           | 0.404%        |
| 15        | 15.815      | 2159          | 2164        | 2171         | rVB      | 68394          | 108838        | 1.02%           | 0.113%        |
| 16        | 15.962      | 2178          | 2189        | 2198         | rBV      | 4320885        | 6036171       | 56.44%          | 6.266%        |
| 17        | 16.521      | 2273          | 2284        | 2289         | rBV3     | 73287          | 180551        | 1.69%           | 0.187%        |
| 18        | 16.621      | 2296          | 2301        | 2307         | rBV3     | 101317         | 178632        | 1.67%           | 0.185%        |
| 19        | 17.033      | 2367          | 2371        | 2379         | rVB      | 128823         | 208285        | 1.95%           | 0.216%        |
| 20        | 17.115      | 2381          | 2385        | 2392         | rBV2     | 80577          | 126689        | 1.18%           | 0.132%        |
| 21        | 17.215      | 2392          | 2402        | 2405         | rBV      | 2103608        | 2941920       | 27.51%          | 3.054%        |
| 22        | 17.256      | 2405          | 2409        | 2415         | rVB      | 2390518        | 3102104       | 29.00%          | 3.220%        |
| 23        | 17.345      | 2420          | 2424        | 2429         | rVV      | 536289         | 766193        | 7.16%           | 0.795%        |
| 24        | 17.398      | 2429          | 2433        | 2445         | rVB8     | 40991          | 132895        | 1.24%           | 0.138%        |
| 25        | 17.604      | 2459          | 2468        | 2470         | rBV3     | 161069         | 294966        | 2.76%           | 0.306%        |
| 26        | 17.621      | 2470          | 2471        | 2483         | rVB      | 178157         | 240432        | 2.25%           | 0.250%        |
| 27        | 17.886      | 2512          | 2516        | 2521         | rVB      | 174335         | 212087        | 1.98%           | 0.220%        |
| 28        | 18.092      | 2542          | 2551        | 2552         | rBV      | 259747         | 357855        | 3.35%           | 0.371%        |
| 29        | 18.115      | 2552          | 2555        | 2557         | rBV      | 379603         | 404490        | 3.78%           | 0.420%        |
| 30        | 18.221      | 2569          | 2573        | 2578         | rVB      | 133876         | 178377        | 1.67%           | 0.185%        |
| 31        | 18.286      | 2578          | 2584        | 2588         | rBV3     | 407327         | 707755        | 6.62%           | 0.735%        |
| 32        | 18.321      | 2588          | 2590        | 2597         | rVB      | 177404         | 209931        | 1.96%           | 0.218%        |
| 33        | 18.403      | 2599          | 2604        | 2608         | rBV3     | 102547         | 172277        | 1.61%           | 0.179%        |
| 34        | 18.592      | 2631          | 2636        | 2640         | rBV      | 191582         | 257461        | 2.41%           | 0.267%        |
| 35        | 18.639      | 2640          | 2644        | 2650         | rVB      | 92057          | 129655        | 1.21%           | 0.135%        |
| 36        | 18.974      | 2696          | 2701        | 2705         | rBV      | 529264         | 785622        | 7.35%           | 0.816%        |

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 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
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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-BM080122.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |          |         |         |
|----|--------|------|------|------|------|---------|----------|---------|---------|
| 37 | 19.062 | 2712 | 2716 | 2720 | rVB3 | 260317  | 309095   | 2.89%   | 0.321%  |
| 38 | 19.150 | 2726 | 2731 | 2735 | rBV3 | 121453  | 233296   | 2.18%   | 0.242%  |
| 39 | 19.192 | 2735 | 2738 | 2741 | rVV  | 207420  | 285473   | 2.67%   | 0.296%  |
| 40 | 19.227 | 2741 | 2744 | 2747 | rVV  | 544574  | 635563   | 5.94%   | 0.660%  |
| 41 | 19.274 | 2747 | 2752 | 2759 | rVB  | 3370362 | 4740988  | 44.33%  | 4.922%  |
| 42 | 19.603 | 2803 | 2808 | 2809 | rBV  | 521119  | 643476   | 6.02%   | 0.668%  |
| 43 | 19.633 | 2809 | 2813 | 2822 | rVV  | 2780078 | 3790317  | 35.44%  | 3.935%  |
| 44 | 19.703 | 2822 | 2825 | 2830 | rVV3 | 124017  | 171959   | 1.61%   | 0.179%  |
| 45 | 19.839 | 2840 | 2848 | 2853 | rBV  | 9011151 | 10695477 | 100.00% | 11.103% |
| 46 | 19.956 | 2863 | 2868 | 2875 | rBV3 | 187908  | 457166   | 4.27%   | 0.475%  |
| 47 | 20.092 | 2886 | 2891 | 2893 | rBV2 | 147206  | 261947   | 2.45%   | 0.272%  |
| 48 | 20.127 | 2893 | 2897 | 2904 | rVB  | 586745  | 895087   | 8.37%   | 0.929%  |
| 49 | 20.227 | 2910 | 2914 | 2918 | rBV  | 405539  | 530712   | 4.96%   | 0.551%  |
| 50 | 20.286 | 2919 | 2924 | 2928 | rVV2 | 269532  | 453649   | 4.24%   | 0.471%  |
| 51 | 20.321 | 2928 | 2930 | 2934 | rVB  | 88130   | 112025   | 1.05%   | 0.116%  |
| 52 | 20.427 | 2944 | 2948 | 2951 | rBV2 | 156528  | 219322   | 2.05%   | 0.228%  |
| 53 | 20.480 | 2953 | 2957 | 2965 | rVB2 | 276648  | 468211   | 4.38%   | 0.486%  |
| 54 | 20.603 | 2975 | 2978 | 2981 | rVB  | 209175  | 201301   | 1.88%   | 0.209%  |
| 55 | 20.874 | 3021 | 3024 | 3030 | rVB  | 165377  | 244075   | 2.28%   | 0.253%  |
| 56 | 21.039 | 3049 | 3052 | 3056 | rBV  | 215855  | 256153   | 2.39%   | 0.266%  |
| 57 | 21.080 | 3056 | 3059 | 3060 | rBV  | 244657  | 234497   | 2.19%   | 0.243%  |
| 58 | 21.109 | 3060 | 3064 | 3071 | rVB4 | 1196391 | 1713713  | 16.02%  | 1.779%  |
| 59 | 21.391 | 3105 | 3112 | 3116 | rBV2 | 3444639 | 6487098  | 60.65%  | 6.734%  |
| 60 | 21.427 | 3116 | 3118 | 3125 | rVB  | 1573684 | 1914591  | 17.90%  | 1.988%  |
| 61 | 21.544 | 3135 | 3138 | 3144 | rBV  | 335427  | 495290   | 4.63%   | 0.514%  |
| 62 | 22.015 | 3216 | 3218 | 3224 | rVB3 | 422819  | 549250   | 5.14%   | 0.570%  |
| 63 | 23.021 | 3384 | 3389 | 3395 | rBV2 | 1699740 | 3800776  | 35.54%  | 3.946%  |
| 64 | 23.533 | 3471 | 3476 | 3485 | rVB  | 748065  | 1459871  | 13.65%  | 1.515%  |
| 65 | 23.633 | 3488 | 3493 | 3502 | rVB  | 1243841 | 2274587  | 21.27%  | 2.361%  |
| 66 | 23.738 | 3505 | 3511 | 3517 | rBV2 | 1814371 | 3435419  | 32.12%  | 3.566%  |
| 67 | 24.327 | 3608 | 3611 | 3622 | rVB2 | 467734  | 919612   | 8.60%   | 0.955%  |

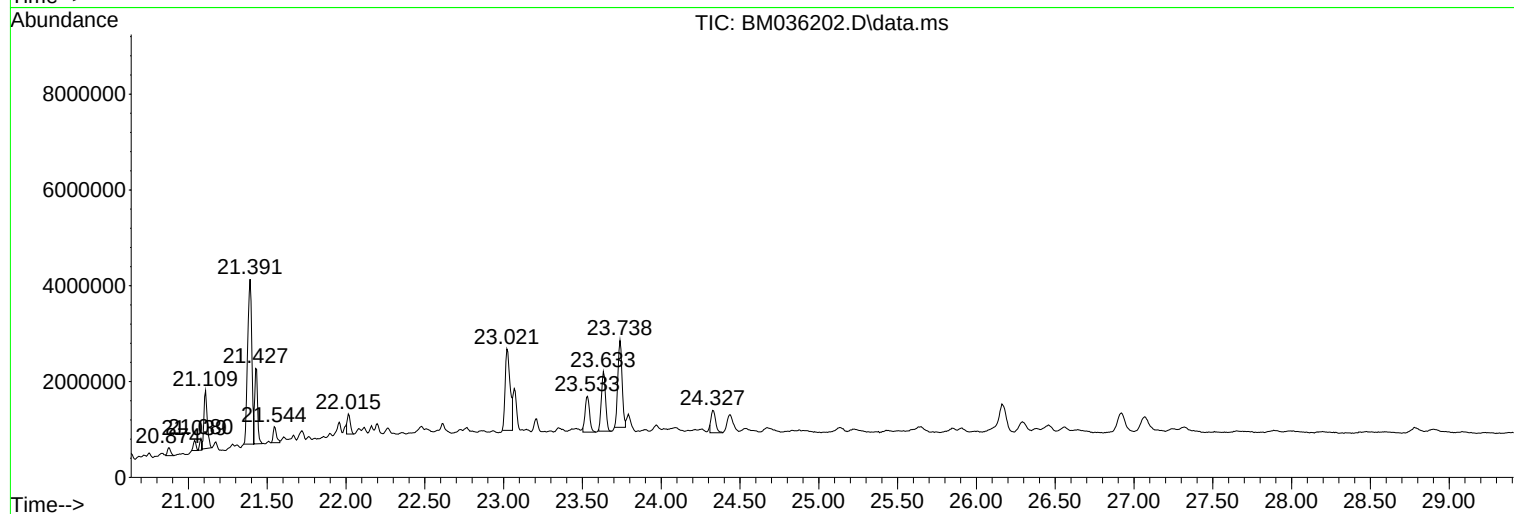
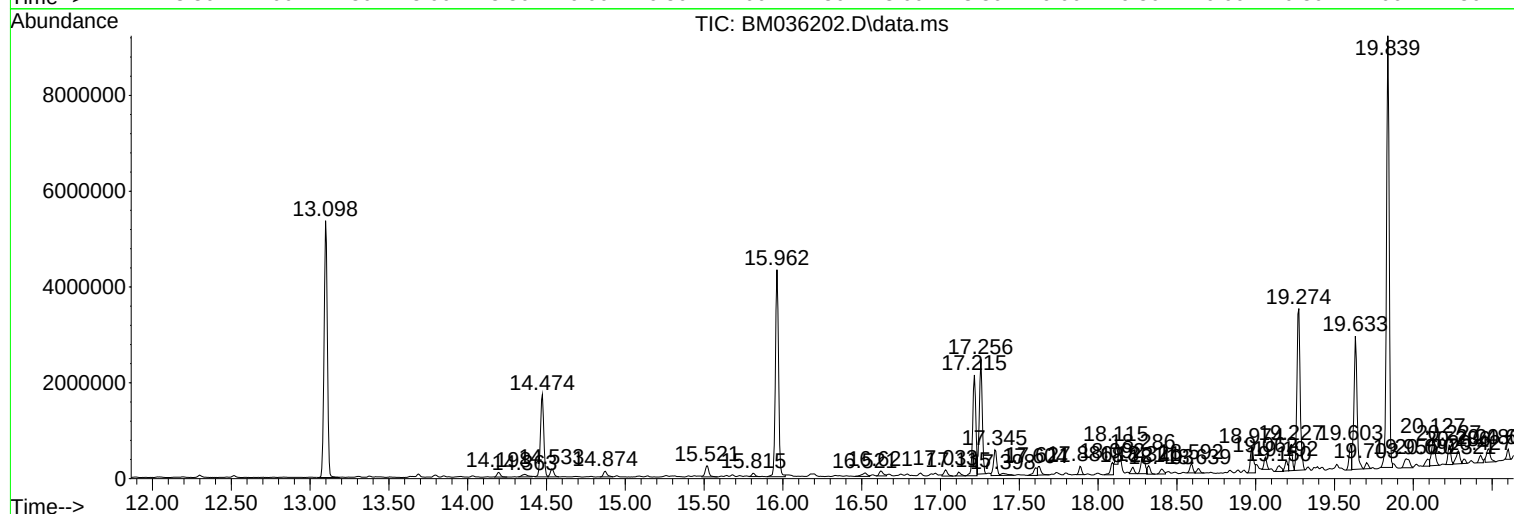
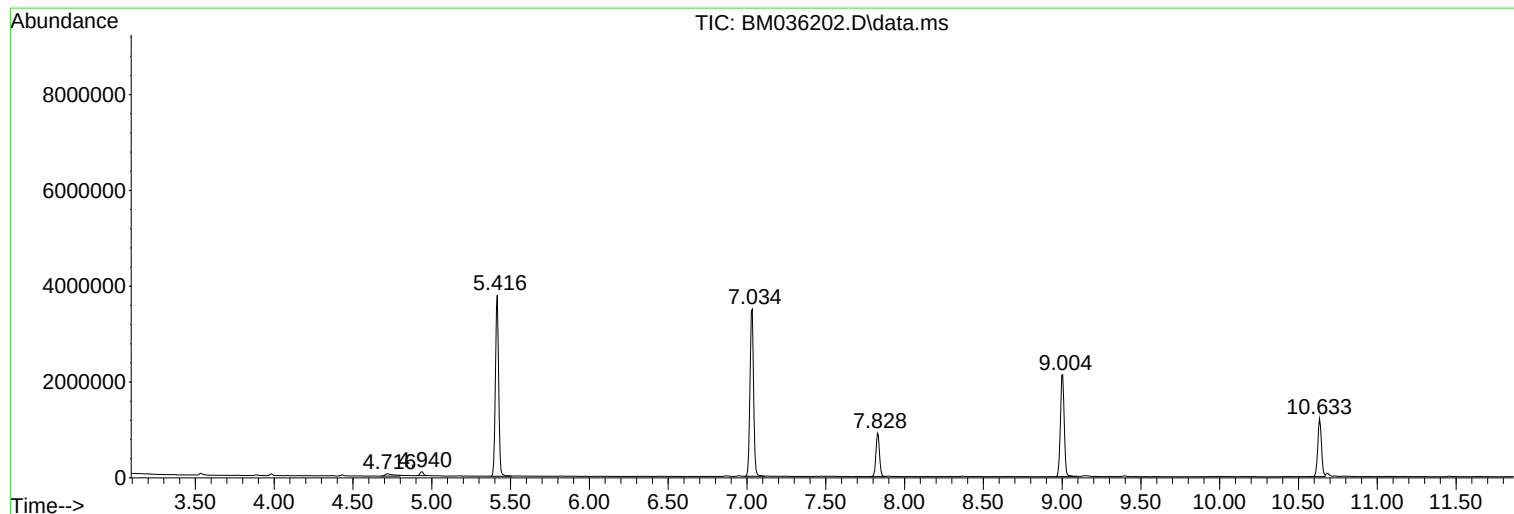
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Sample : N4086-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
RLA-4711-WC

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM080122.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\BM081022\  
Data File : BM036202.D  
Acq On : 10 Aug 2022 21:13  
Operator : CG/JU  
Sample : N4086-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
RLA-4711-WC

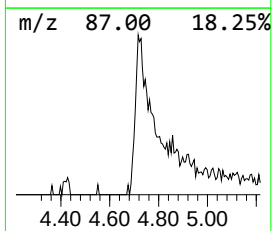
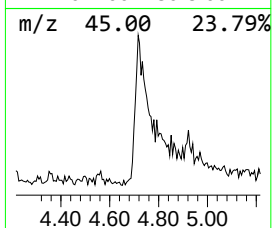
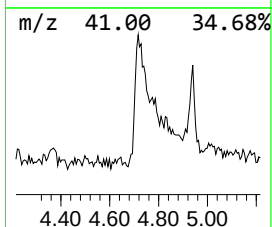
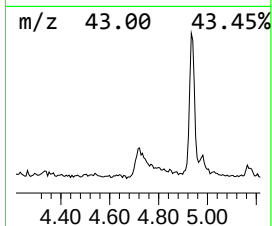
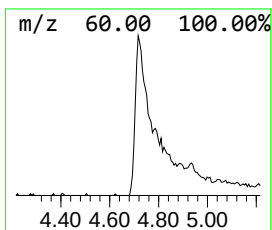
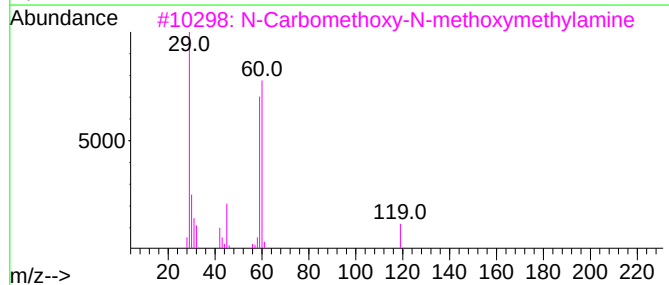
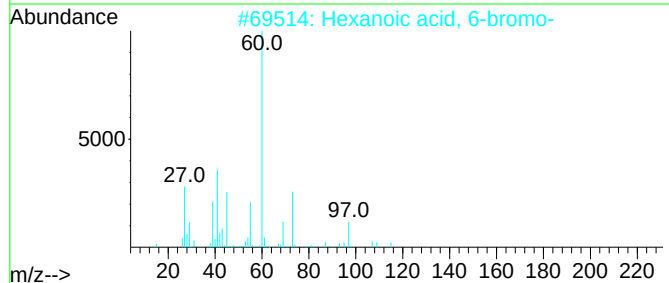
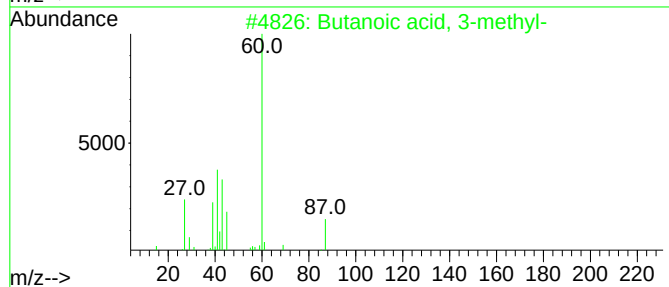
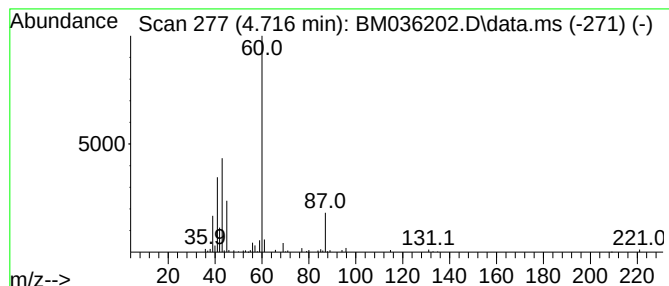
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butanoic acid, 3-methyl- Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD       | R.T.  |
|-------|---------|--------|------------------------|-------|
| 4.716 | 2.45 ng | 175229 | 1,4-Dichlorobenzene-d4 | 7.828 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Butanoic acid, 3-methyl-            | 102 | C5H10O2   | 000503-74-2  | 78   |
| 2    |    |   | Hexanoic acid, 6-bromo-             | 194 | C6H11BrO2 | 004224-70-8  | 40   |
| 3    |    |   | N-Carbomethoxy-N-methoxymethylamine | 119 | C4H9NO3   | 153654-07-0  | 39   |
| 4    |    |   | Hexanoic acid                       | 116 | C6H12O2   | 000142-62-1  | 39   |
| 5    |    |   | 9-Fluorenone, thiosemicarbazone     | 253 | C14H11N3S | 1010293-93-5 | 36   |



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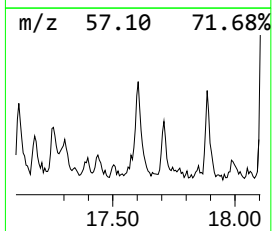
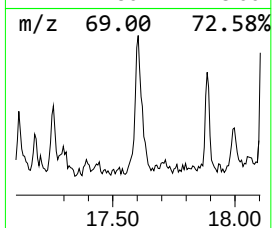
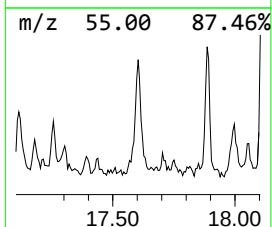
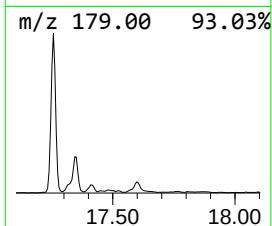
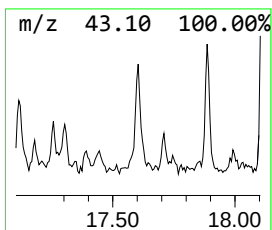
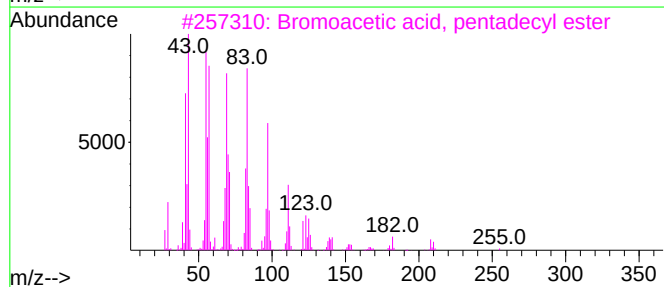
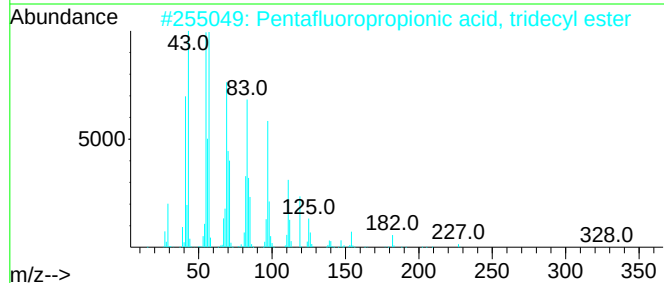
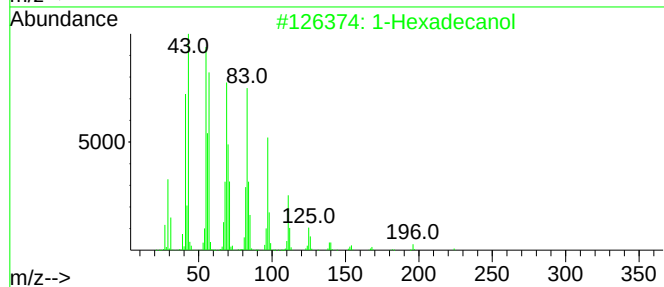
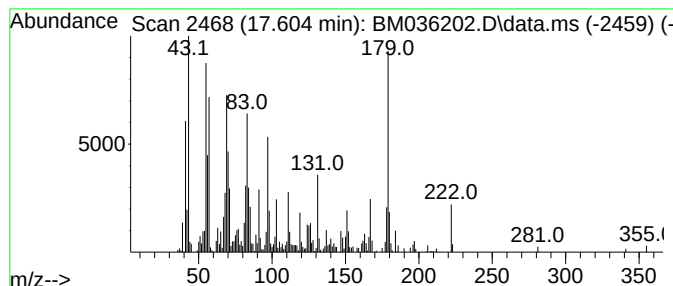
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM080122.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 1-Hexadecanol Concentration Rank 12

| R.T.      | EstConc                              | Area   | Relative to ISTD |            | R.T.        |      |
|-----------|--------------------------------------|--------|------------------|------------|-------------|------|
| 17.604    | 2.01 ng                              | 294966 | Phenanthrene-d10 |            | 17.215      |      |
| Hit# of 5 | Tentative ID                         |        | MW               | MolForm    | CAS#        | Qual |
| 1         | 1-Hexadecanol                        |        | 242              | C16H34O    | 036653-82-4 | 55   |
| 2         | Pentafluoropropionic acid, tridec... |        | 346              | C16H27F5O2 | 959261-22-4 | 45   |
| 3         | Bromoacetic acid, pentadecyl ester   |        | 348              | C17H33BrO2 | 131143-01-6 | 43   |
| 4         | Phenanthridine                       |        | 179              | C13H9N     | 000229-87-8 | 42   |
| 5         | Pentafluoropropionic acid, undec...  |        | 318              | C14H23F5O2 | 959014-11-0 | 41   |



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RLA-4711-WC

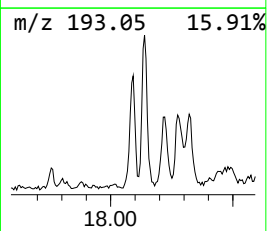
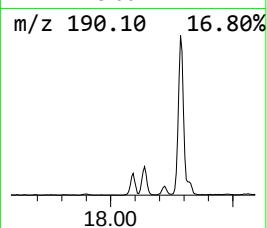
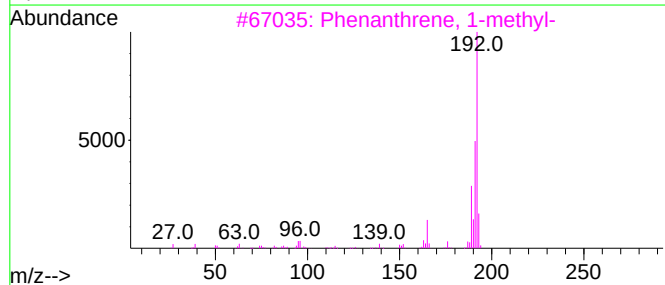
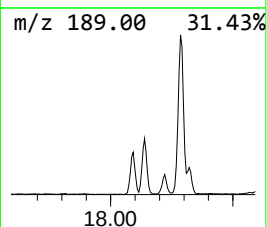
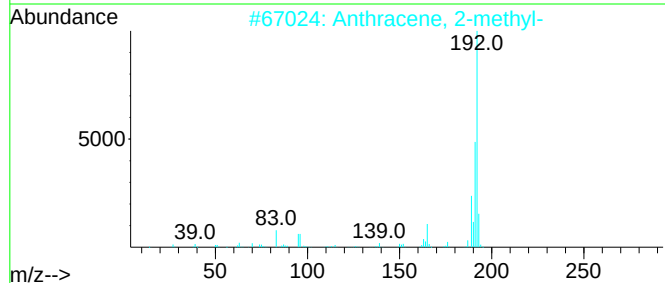
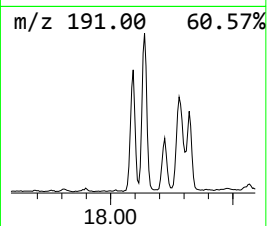
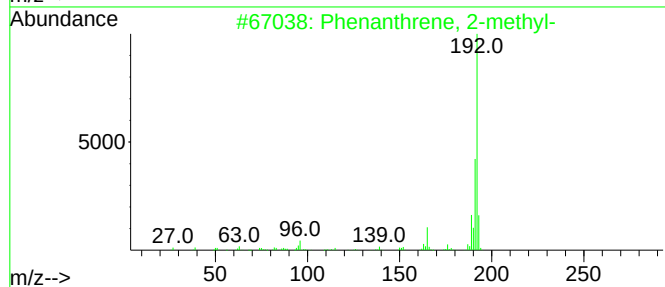
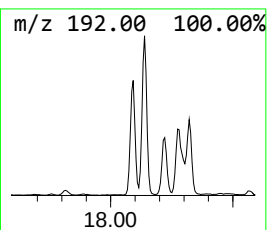
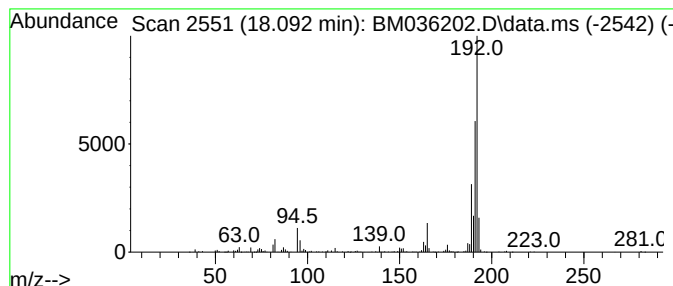
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM080122.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 9

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.092 | 2.43 ng | 357855 | Phenanthrene-d10 | 17.215 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 96   |
| 2    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 96   |
| 3    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 95   |
| 4    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 95   |
| 5    |    |   | Anthracene, 9-methyl-               | 192 | C15H12  | 000779-02-2 | 94   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081022\  
Data File : BM036202.D  
Acq On : 10 Aug 2022 21:13  
Operator : CG/JU  
Sample : N4086-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
RLA-4711-WC

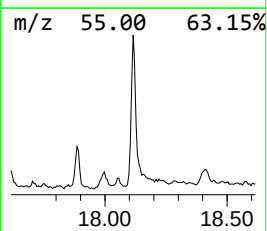
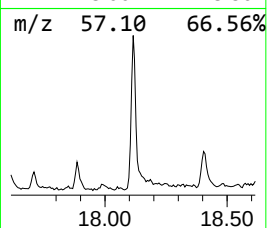
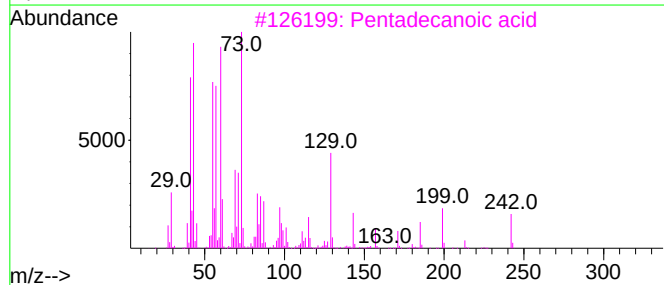
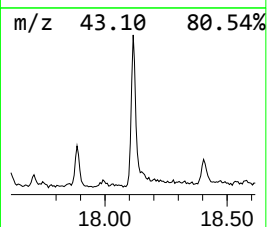
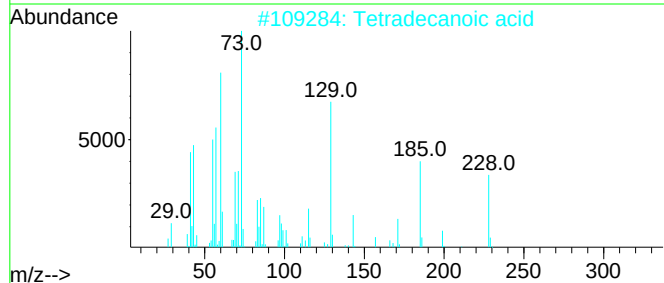
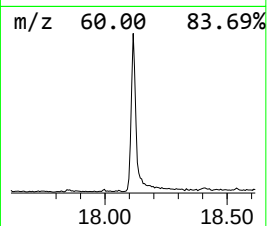
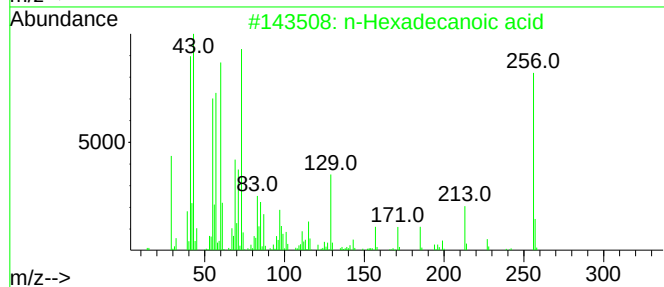
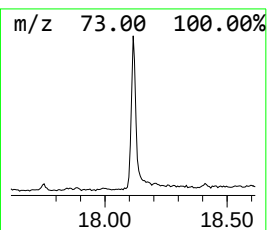
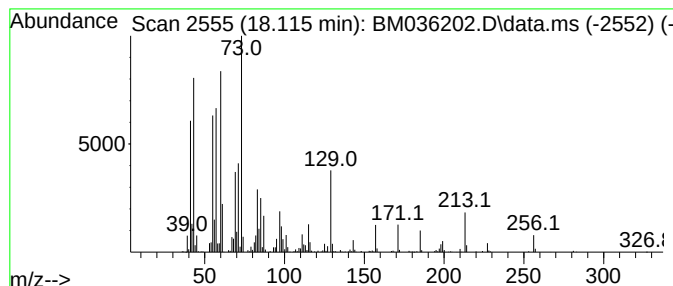
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 n-Hexadecanoic acid Concentration Rank 7

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.115 | 2.75 ng | 404490 | Phenanthrene-d10 | 17.215 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-----------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid   | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    |   | Tetradecanoic acid    | 228 | C14H28O2 | 000544-63-8 | 90   |
| 3    |    |   | Pentadecanoic acid    | 242 | C15H30O2 | 001002-84-2 | 90   |
| 4    |    |   | Tridecanoic acid      | 214 | C13H26O2 | 000638-53-9 | 83   |
| 5    |    |   | 8-Methylnonanoic acid | 172 | C10H20O2 | 005963-14-4 | 49   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081022\  
Data File : BM036202.D  
Acq On : 10 Aug 2022 21:13  
Operator : CG/JU  
Sample : N4086-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
RLA-4711-WC

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM080122.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

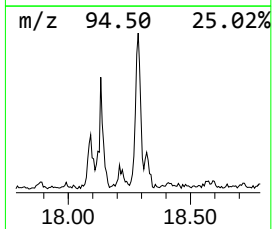
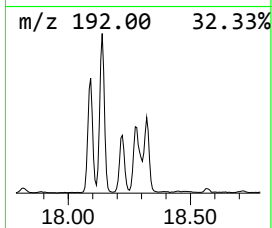
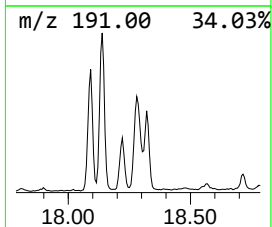
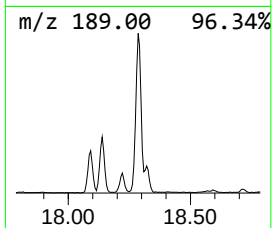
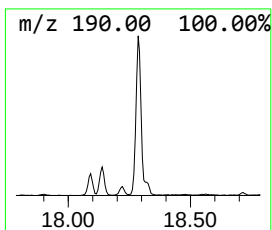
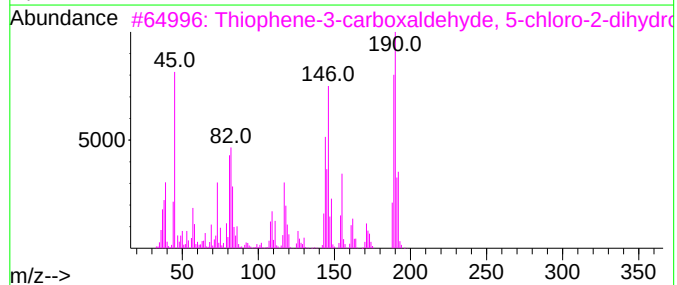
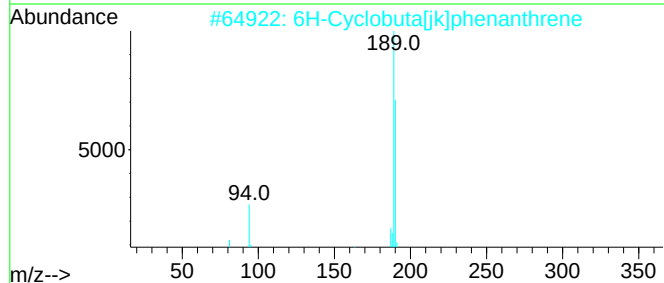
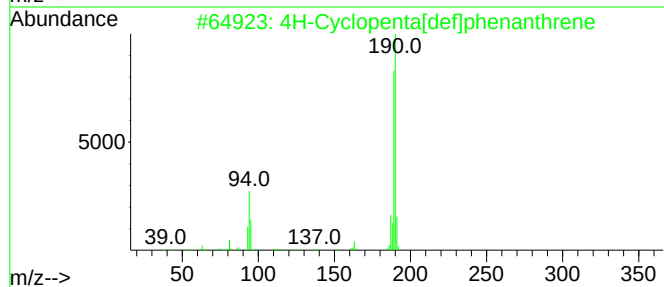
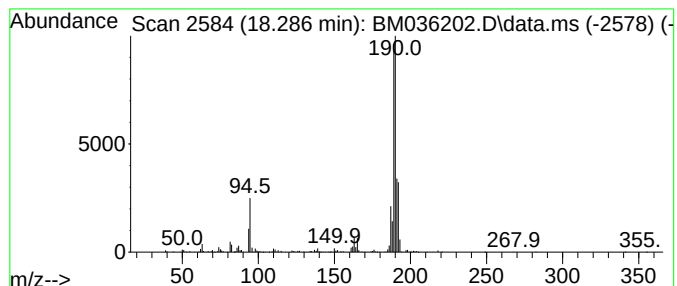
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.286 | 4.81 ng | 707755 | Phenanthrene-d10 | 17.215 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|------|-------------------------------------|-----|-------------|--------------|------|
| 1    |      | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10      | 000203-64-5  | 93   |
| 2    |      | 6H-Cyclobuta[jk]phenanthrene        | 190 | C15H10      | 083469-43-6  | 72   |
| 3    |      | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S  | 036155-87-0  | 52   |
| 4    |      | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4    | 069286-06-2  | 33   |
| 5    |      | 1-Aminocyclopentanecarboxylic ac... | 361 | C18H32ClNO4 | 1000329-17-0 | 27   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081022\  
Data File : BM036202.D  
Acq On : 10 Aug 2022 21:13  
Operator : CG/JU  
Sample : N4086-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
RLA-4711-WC

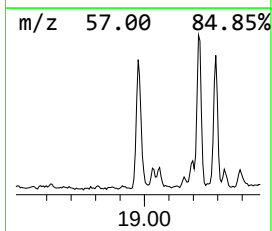
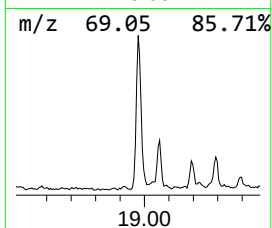
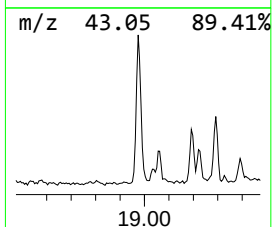
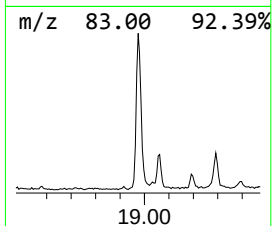
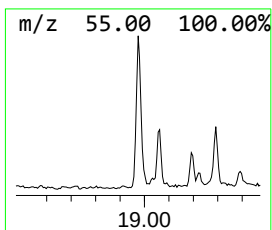
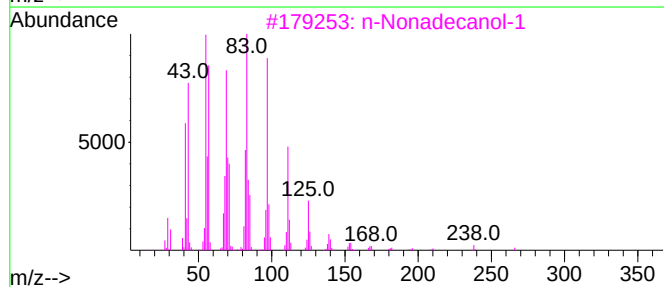
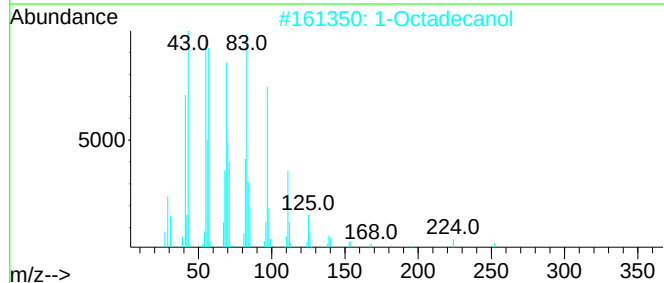
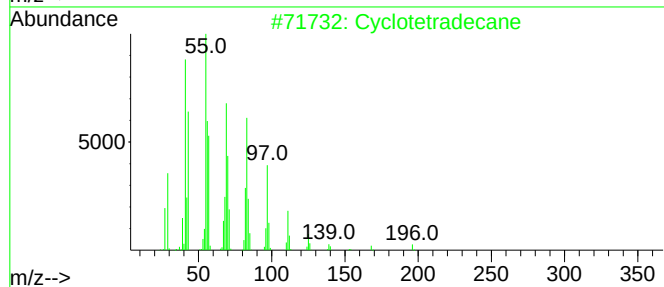
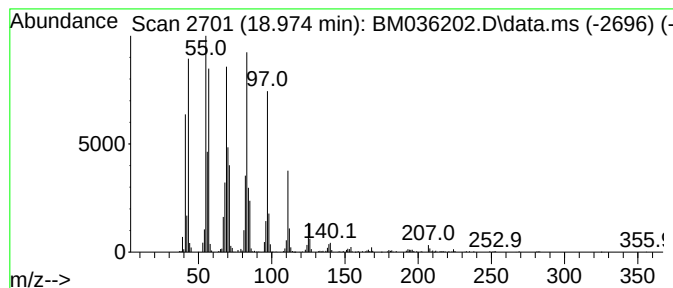
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Cyclotetradecane Concentration Rank 3

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.974 | 5.34 ng | 785622 | Phenanthrene-d10 | 17.215 |

| Hit# | of | 5 | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclotetradecane | 196 | C14H28  | 000295-17-0 | 97   |
| 2    |    |   | 1-Octadecanol    | 270 | C18H38O | 000112-92-5 | 94   |
| 3    |    |   | n-Nonadecanol-1  | 284 | C19H40O | 001454-84-8 | 94   |
| 4    |    |   | 1-Hexadecanol    | 242 | C16H34O | 036653-82-4 | 93   |
| 5    |    |   | n-Heptadecanol-1 | 256 | C17H36O | 001454-85-9 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081022\  
Data File : BM036202.D  
Acq On : 10 Aug 2022 21:13  
Operator : CG/JU  
Sample : N4086-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
RLA-4711-WC

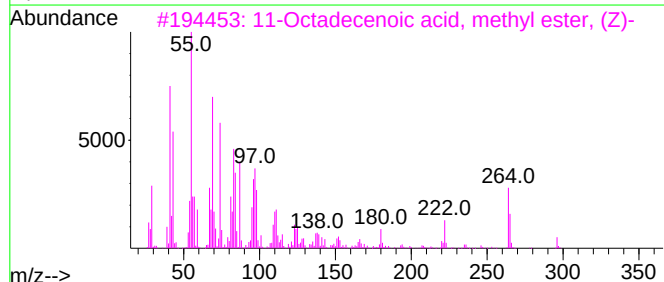
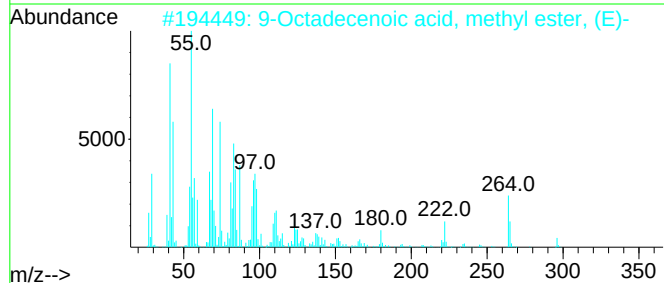
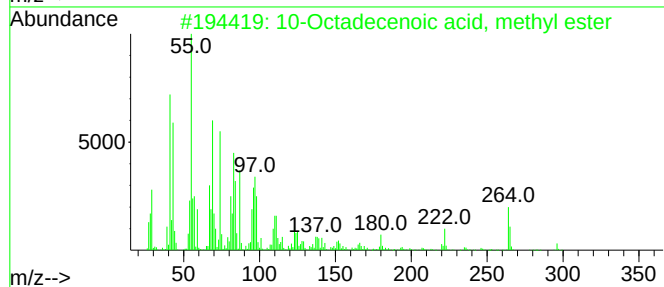
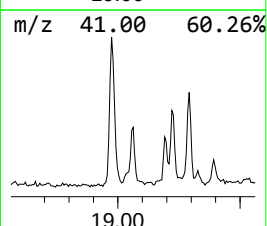
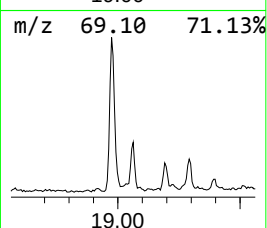
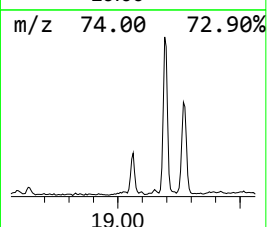
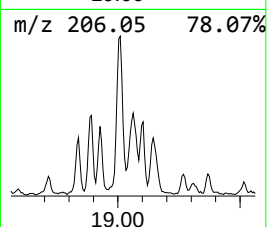
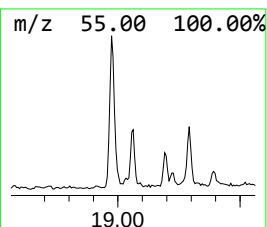
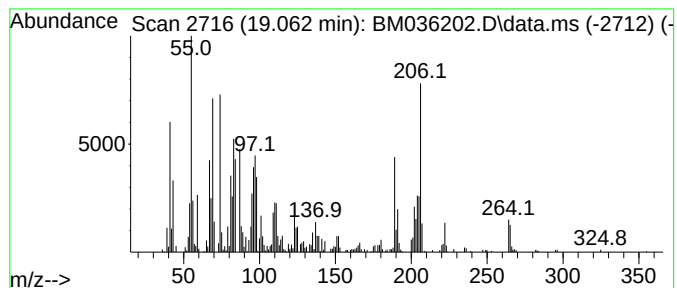
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 10-Octadecenoic acid, methy... Concentration Rank 11

| R.T.      | EstConc                            | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------------------|--------|------------------|-------------|------|
| 19.062    | 2.10 ng                            | 309095 | Phenanthrene-d10 | 17.215      |      |
| Hit# of 5 | Tentative ID                       | MW     | MolForm          | CAS#        | Qual |
| 1         | 10-Octadecenoic acid, methyl ester | 296    | C19H36O2         | 013481-95-3 | 97   |
| 2         | 9-Octadecenoic acid, methyl ester  | 296    | C19H36O2         | 001937-62-8 | 97   |
| 3         | 11-Octadecenoic acid, methyl ester | 296    | C19H36O2         | 001937-63-9 | 97   |
| 4         | 16-Octadecenoic acid, methyl ester | 296    | C19H36O2         | 056554-49-5 | 97   |
| 5         | 15-Octadecenoic acid, methyl ester | 296    | C19H36O2         | 004764-72-1 | 96   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081022\  
Data File : BM036202.D  
Acq On : 10 Aug 2022 21:13  
Operator : CG/JU  
Sample : N4086-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
RLA-4711-WC

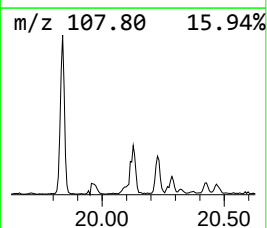
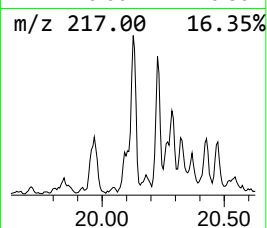
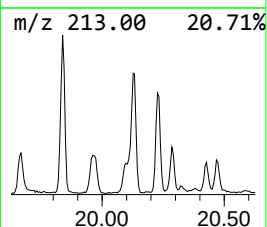
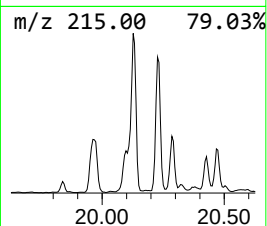
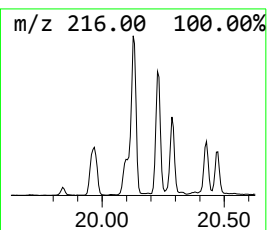
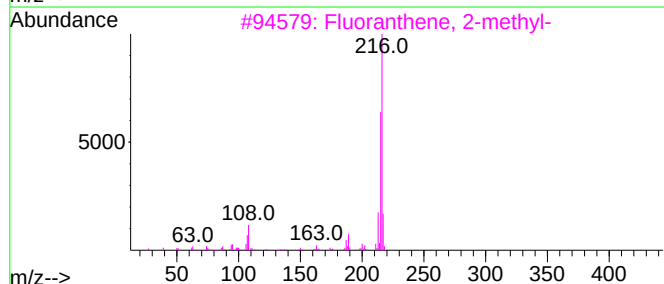
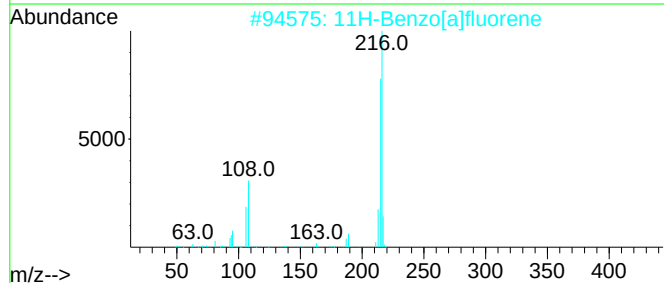
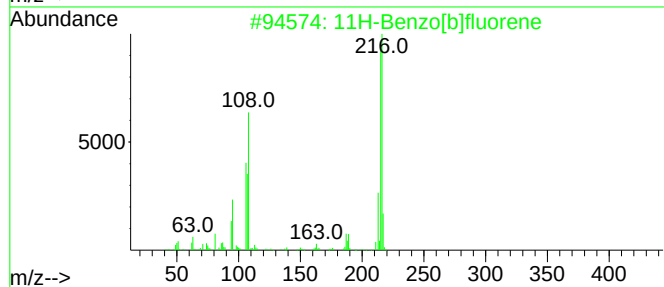
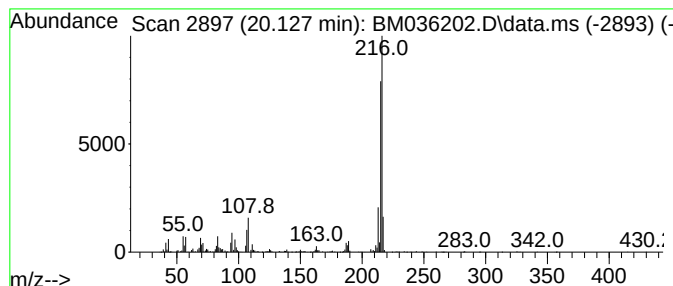
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 20.127 | 2.76 ng | 895087 | Chrysene-d12     | 21.392 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 93   |
| 2    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 91   |
| 3    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 87   |
| 4    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 87   |
| 5    |    |   | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 81   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081022\  
Data File : BM036202.D  
Acq On : 10 Aug 2022 21:13  
Operator : CG/JU  
Sample : N4086-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
RLA-4711-WC

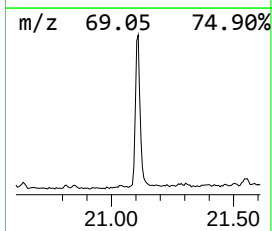
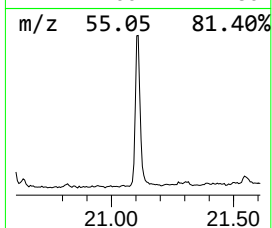
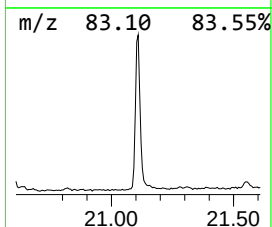
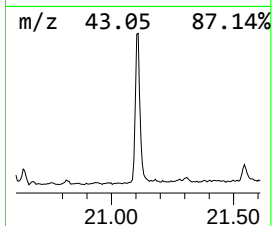
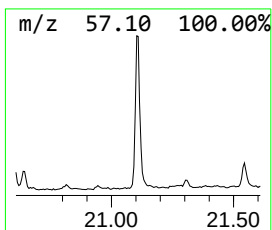
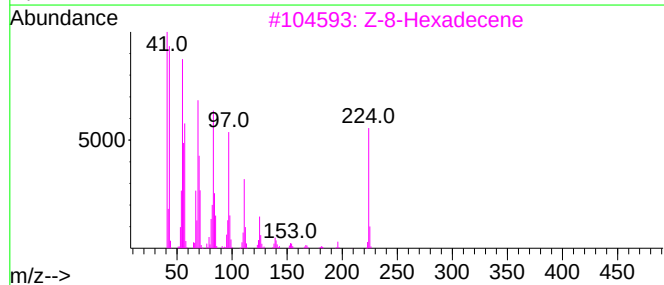
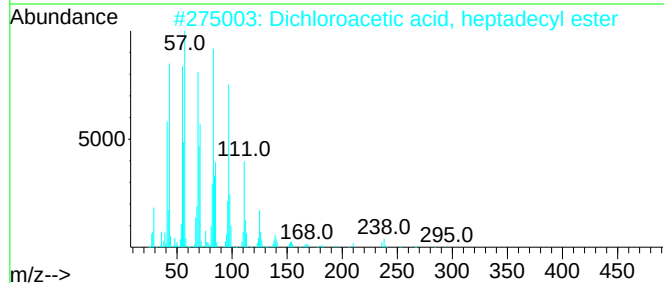
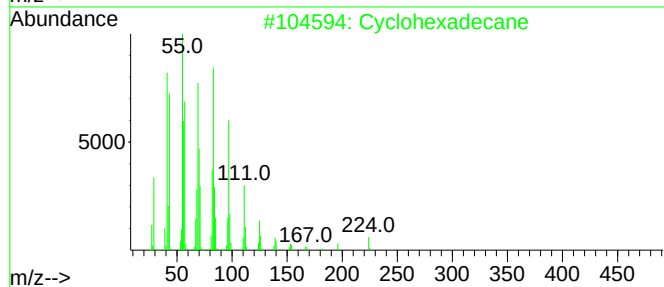
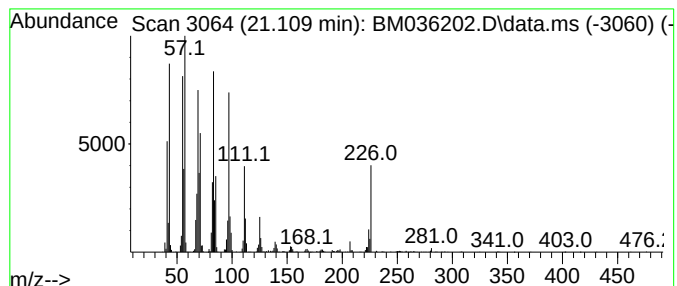
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 Cyclohexadecane Concentration Rank 4

| R.T.   | EstConc | Area    | Relative to ISTD | R.T.   |
|--------|---------|---------|------------------|--------|
| 21.109 | 5.28 ng | 1713710 | Chrysene-d12     | 21.392 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Cyclohexadecane                     | 224 | C16H32      | 000295-65-8  | 94   |
| 2    |    |   | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 91   |
| 3    |    |   | Z-8-Hexadecene                      | 224 | C16H32      | 1000130-87-5 | 91   |
| 4    |    |   | Heptadecyl heptafluorobutyrate      | 452 | C21H35F7O2  | 959085-66-6  | 90   |
| 5    |    |   | Trifluoroacetoxy hexadecane         | 338 | C18H33F3O2  | 006222-03-3  | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081022\  
Data File : BM036202.D  
Acq On : 10 Aug 2022 21:13  
Operator : CG/JU  
Sample : N4086-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
RLA-4711-WC

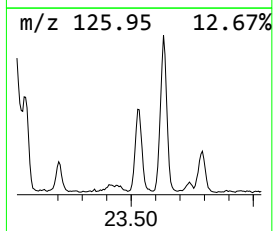
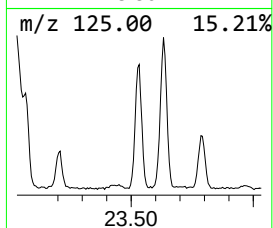
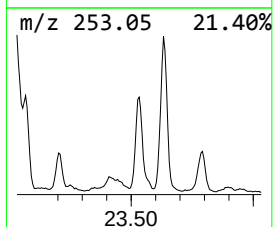
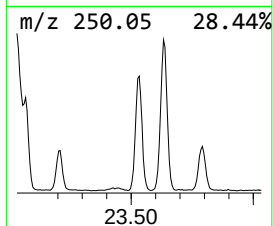
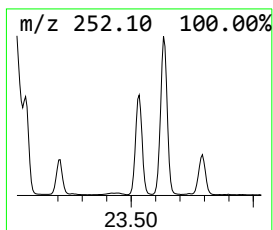
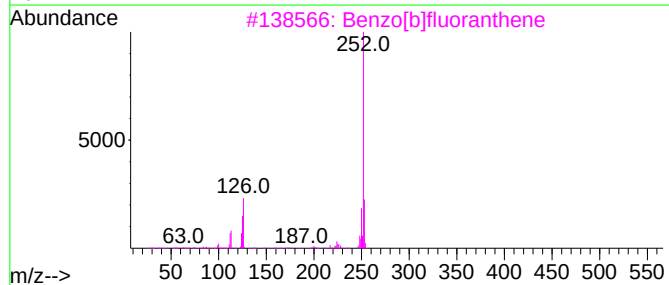
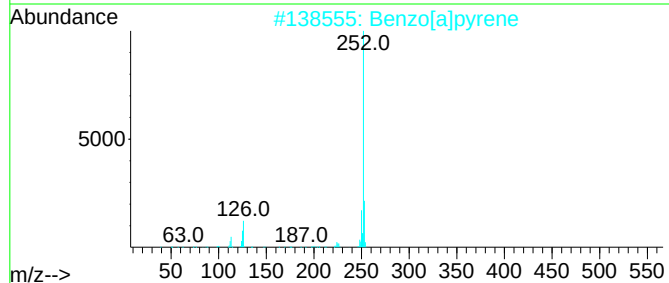
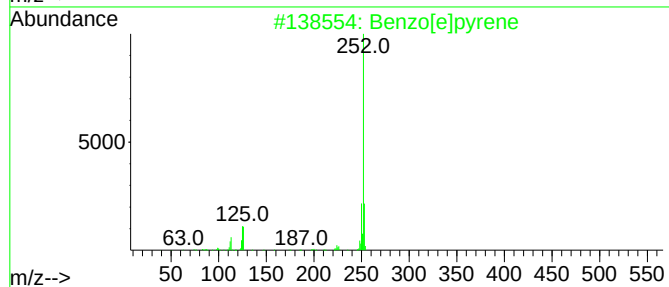
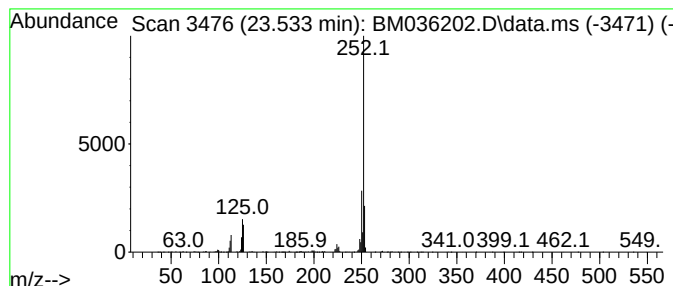
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM080122.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 Benzo[e]pyrene Concentration Rank 1

| R.T.   | EstConc | Area    | Relative to ISTD | R.T.   |
|--------|---------|---------|------------------|--------|
| 23.532 | 8.50 ng | 1459870 | Perylene-d12     | 23.738 |

| 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[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 95   |
| 4    |    |   | Perylene             | 252 | C20H12  | 000198-55-0 | 94   |
| 5    |    |   | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 93   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081022\  
Data File : BM036202.D  
Acq On : 10 Aug 2022 21:13  
Operator : CG/JU  
Sample : N4086-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
RLA-4711-WC

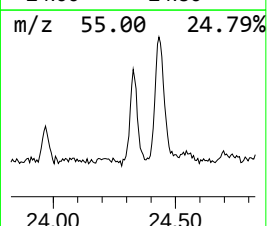
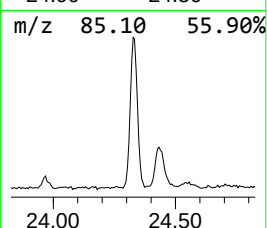
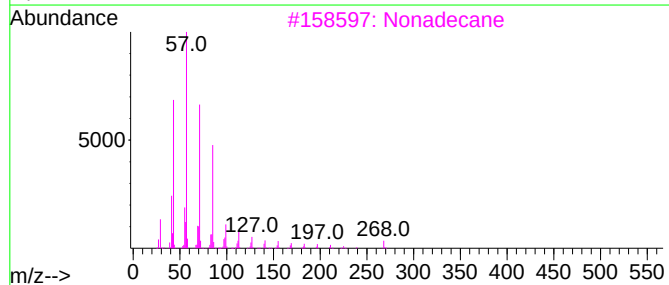
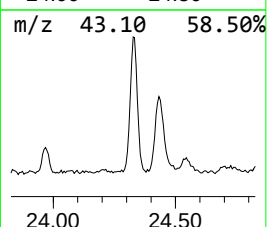
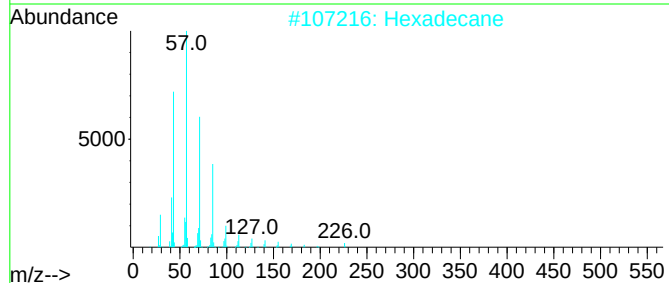
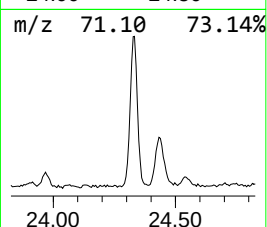
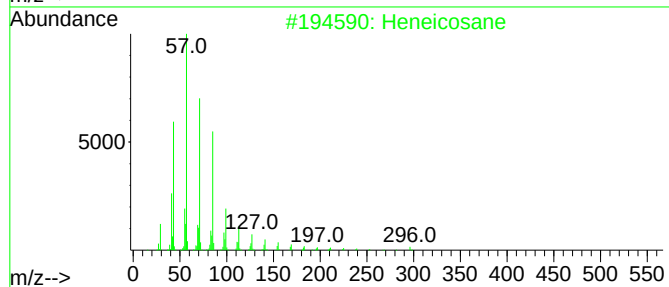
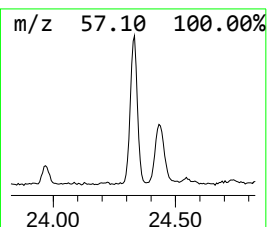
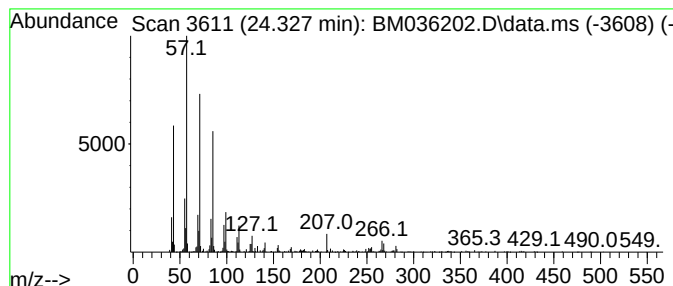
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM080122.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 Heneicosane Concentration Rank 2

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 24.327 | 5.35 ng | 919612 | Perylene-d12     | 23.738 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#         | Qual |
|------|----|---|----------------------|-----|---------|--------------|------|
| 1    |    |   | Heneicosane          | 296 | C21H44  | 000629-94-7  | 96   |
| 2    |    |   | Hexadecane           | 226 | C16H34  | 000544-76-3  | 94   |
| 3    |    |   | Nonadecane           | 268 | C19H40  | 000629-92-5  | 94   |
| 4    |    |   | Docosane             | 310 | C22H46  | 000629-97-0  | 87   |
| 5    |    |   | Tetracosane, 1-iodo- | 464 | C24H49I | 1000406-32-0 | 86   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081022\  
Data File : BM036202.D  
Acq On : 10 Aug 2022 21:13  
Operator : CG/JU  
Sample : N4086-01  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
RLA-4711-WC

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM080122.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| Butanoic acid, ... | 4.716  | 2.5     | ng    | 175229   | 1                     | 7.828  | 1430460 | 20.0 |
| 1-Hexadecanol      | 17.604 | 2.0     | ng    | 294966   | 4                     | 17.215 | 2941920 | 20.0 |
| Phenanthrene, 2... | 18.092 | 2.4     | ng    | 357855   | 4                     | 17.215 | 2941920 | 20.0 |
| n-Hexadecanoic ... | 18.115 | 2.8     | ng    | 404490   | 4                     | 17.215 | 2941920 | 20.0 |
| 4H-Cyclopenta[d... | 18.286 | 4.8     | ng    | 707755   | 4                     | 17.215 | 2941920 | 20.0 |
| Cyclotetradecane   | 18.974 | 5.3     | ng    | 785622   | 4                     | 17.215 | 2941920 | 20.0 |
| 10-Octadecenoic... | 19.062 | 2.1     | ng    | 309095   | 4                     | 17.215 | 2941920 | 20.0 |
| 11H-Benzo[b]flu... | 20.127 | 2.8     | ng    | 895087   | 5                     | 21.392 | 6487100 | 20.0 |
| Cyclohexadecane    | 21.109 | 5.3     | ng    | 1713710  | 5                     | 21.392 | 6487100 | 20.0 |
| Benzo[e]pyrene     | 23.532 | 8.5     | ng    | 1459870  | 6                     | 23.738 | 3435420 | 20.0 |
| Heneicosane        | 24.327 | 5.3     | ng    | 919612   | 6                     | 23.738 | 3435420 | 20.0 |