

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM062317\  
 Data File : BM010698.D  
 Acq On : 23 Jun 2017 20:02  
 Operator : SJ/JU  
 Sample : I3625-08  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F5B82

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % 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\_M\METHODS\SOM-EPA-BM062017.M  
 Title : SVOA 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         | 6.646       | 632           | 639         | 652          | rBV      | 371892         | 583472        | 16.36%          | 1.887%        |
| 2         | 6.810       | 662           | 667         | 676          | rBV      | 254993         | 373551        | 10.48%          | 1.208%        |
| 3         | 6.999       | 692           | 699         | 706          | rVB      | 371862         | 557609        | 15.64%          | 1.803%        |
| 4         | 7.463       | 772           | 778         | 784          | rBV      | 314359         | 476036        | 13.35%          | 1.539%        |
| 5         | 8.163       | 891           | 897         | 907          | rVB      | 519545         | 800167        | 22.44%          | 2.587%        |
| 6         | 8.604       | 965           | 972         | 980          | rBB      | 412319         | 634082        | 17.78%          | 2.050%        |
| 7         | 9.316       | 1087          | 1093        | 1100         | rBV      | 389965         | 613572        | 17.21%          | 1.984%        |
| 8         | 9.845       | 1177          | 1183        | 1192         | rVB      | 594235         | 961539        | 26.97%          | 3.109%        |
| 9         | 10.222      | 1240          | 1247        | 1253         | rBV      | 471632         | 746841        | 20.95%          | 2.415%        |
| 10        | 10.363      | 1265          | 1271        | 1279         | rBV      | 414250         | 674757        | 18.92%          | 2.182%        |
| 11        | 13.533      | 1804          | 1810        | 1814         | rBV      | 1074218        | 1452978       | 40.75%          | 4.698%        |
| 12        | 13.580      | 1814          | 1818        | 1823         | rVB      | 160096         | 217502        | 6.10%           | 0.703%        |
| 13        | 13.798      | 1849          | 1855        | 1865         | rBV      | 1124579        | 1733349       | 48.61%          | 5.605%        |
| 14        | 14.039      | 1891          | 1896        | 1902         | rBV3     | 66630          | 84567         | 2.37%           | 0.273%        |
| 15        | 14.110      | 1902          | 1908        | 1916         | rBV2     | 712307         | 1090020       | 30.57%          | 3.525%        |
| 16        | 14.222      | 1922          | 1927        | 1932         | rVB3     | 41971          | 57905         | 1.62%           | 0.187%        |
| 17        | 14.322      | 1937          | 1944        | 1951         | rBV      | 571225         | 795585        | 22.31%          | 2.572%        |
| 18        | 15.004      | 2054          | 2060        | 2064         | rBV5     | 24880          | 36398         | 1.02%           | 0.118%        |
| 19        | 15.116      | 2072          | 2079        | 2085         | rVB      | 1450931        | 2036430       | 57.11%          | 6.585%        |
| 20        | 15.239      | 2094          | 2100        | 2106         | rBV      | 515121         | 697068        | 19.55%          | 2.254%        |
| 21        | 15.357      | 2115          | 2120        | 2123         | rBV5     | 22925          | 38558         | 1.08%           | 0.125%        |
| 22        | 16.521      | 2315          | 2318        | 2324         | rVB5     | 25034          | 37573         | 1.05%           | 0.121%        |
| 23        | 16.657      | 2338          | 2341        | 2344         | rBV5     | 25169          | 38843         | 1.09%           | 0.126%        |
| 24        | 16.786      | 2359          | 2363        | 2369         | rBV9     | 31650          | 64220         | 1.80%           | 0.208%        |
| 25        | 16.868      | 2371          | 2377        | 2381         | rBV      | 949917         | 1357237       | 38.06%          | 4.389%        |
| 26        | 16.910      | 2381          | 2384        | 2387         | rVB      | 76162          | 90121         | 2.53%           | 0.291%        |
| 27        | 16.968      | 2388          | 2394        | 2398         | rBV      | 1635543        | 2332971       | 65.43%          | 7.544%        |
| 28        | 17.274      | 2443          | 2446        | 2449         | rBV      | 57301          | 63574         | 1.78%           | 0.206%        |
| 29        | 17.733      | 2520          | 2524        | 2530         | rVB2     | 175877         | 217993        | 6.11%           | 0.705%        |
| 30        | 17.792      | 2530          | 2534        | 2541         | rBV      | 295902         | 345153        | 9.68%           | 1.116%        |
| 31        | 17.857      | 2542          | 2545        | 2551         | rVB2     | 124465         | 173826        | 4.88%           | 0.562%        |
| 32        | 18.939      | 2725          | 2729        | 2736         | rBV      | 330526         | 421270        | 11.81%          | 1.362%        |
| 33        | 19.092      | 2751          | 2755        | 2761         | rBV      | 179569         | 249588        | 7.00%           | 0.807%        |
| 34        | 19.239      | 2777          | 2780        | 2782         | rBV3     | 112773         | 129542        | 3.63%           | 0.419%        |

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Misc :  
ALS Vial : 15 Sample Multiplier: 1

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ClientSampleId :  
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## Integration Parameters: LSCINT.P

Integrator: RTE  
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Sampling : 1  
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Filtering: 5  
Min Area: 1 % of largest Peak  
Max Peaks: 100  
Peak Location: TOP

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

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|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 19.280 | 2782 | 2787 | 2799 | rVB2 | 2418528 | 3565600 | 100.00% | 11.529% |
| 36 | 20.556 | 3002 | 3004 | 3009 | rVB  | 130656  | 157056  | 4.40%   | 0.508%  |
| 37 | 21.080 | 3088 | 3093 | 3098 | rBV2 | 1324888 | 2063706 | 57.88%  | 6.673%  |
| 38 | 22.592 | 3345 | 3350 | 3355 | rBV2 | 491491  | 1037996 | 29.11%  | 3.356%  |
| 39 | 23.045 | 3423 | 3427 | 3430 | rBV  | 236511  | 390354  | 10.95%  | 1.262%  |
| 40 | 23.098 | 3430 | 3436 | 3440 | rVV2 | 1318519 | 2149914 | 60.30%  | 6.952%  |
| 41 | 23.227 | 3453 | 3458 | 3463 | rBV2 | 567993  | 973961  | 27.32%  | 3.149%  |
| 42 | 25.980 | 3920 | 3926 | 3936 | rVB2 | 152020  | 404246  | 11.34%  | 1.307%  |

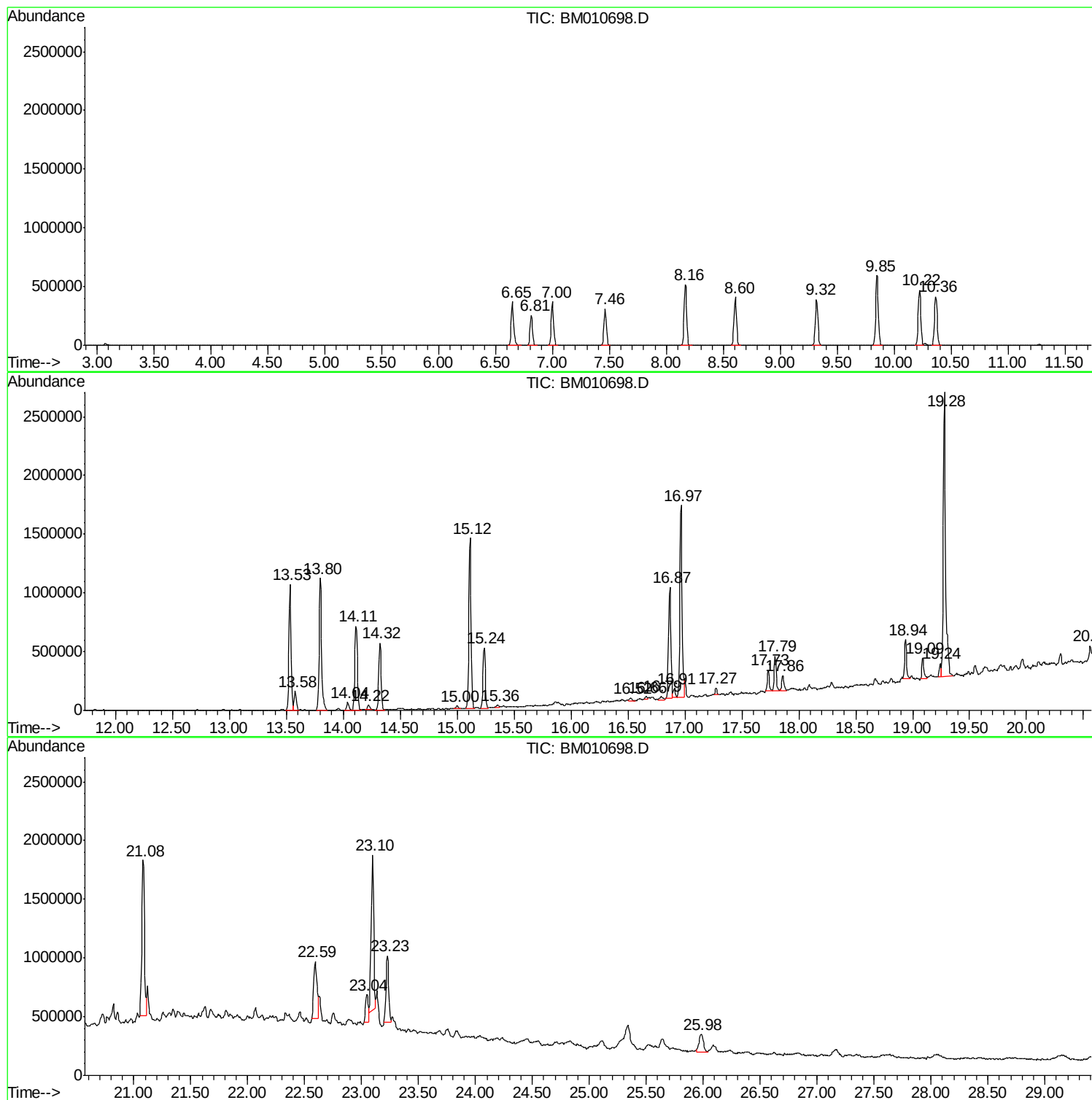
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM062017.M  
Quant Title : SVOA CALIBRATION

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



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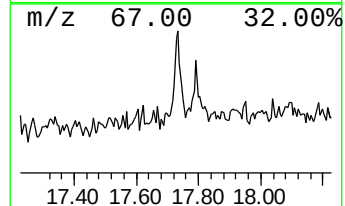
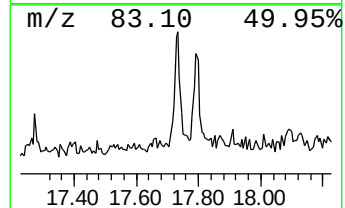
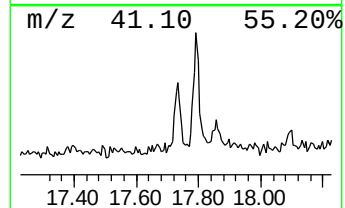
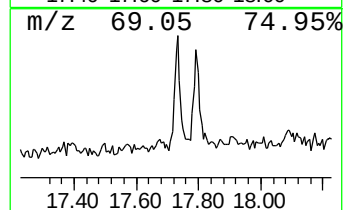
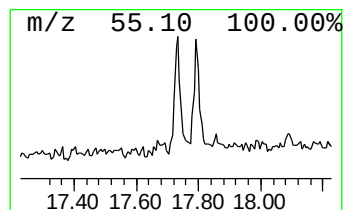
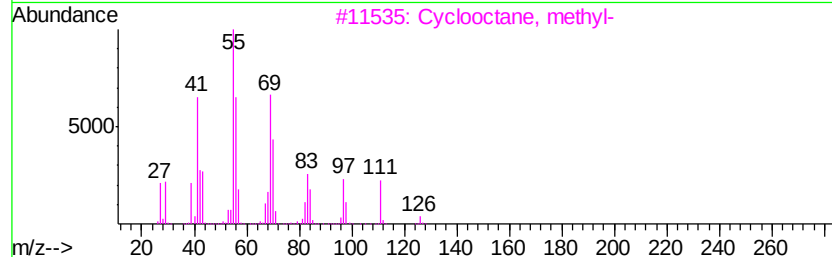
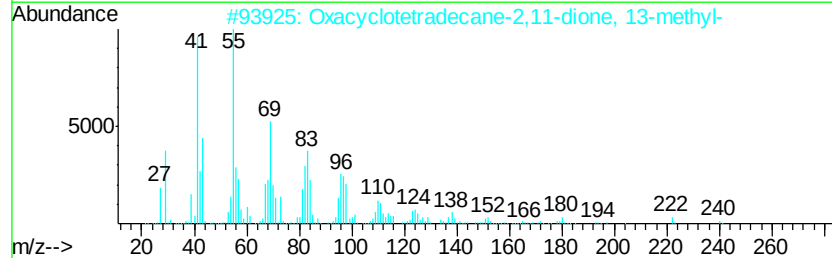
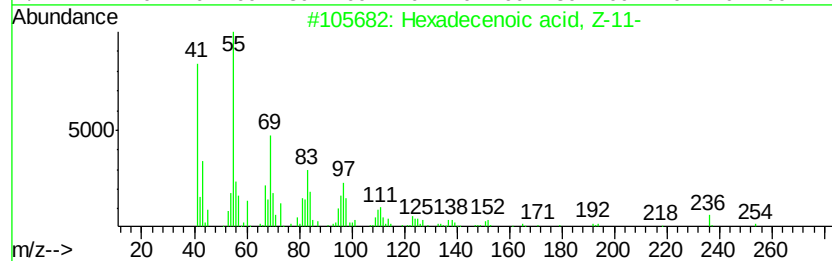
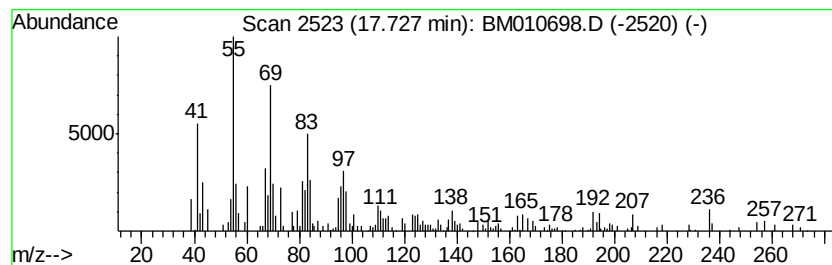
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM062017.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 Hexadecenoic acid, Z-11- Concentration Rank 3

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.     |              |      |
|---------|------------|-------------------------------------|------------------|----------|--------------|------|
| 17.73   | 3.21 ng/ul | 217993                              | Phenanthrene-d10 | 16.87    |              |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm  | CAS#         | Qual |
| 1       |            | Hexadecenoic acid, Z-11-            | 254              | C16H30O2 | 002416-20-8  | 89   |
| 2       |            | Oxacyclotetradecane-2,11-dione, ... | 240              | C14H24O3 | 074685-36-2  | 64   |
| 3       |            | Cyclooctane, methyl-                | 126              | C9H18    | 001502-38-1  | 62   |
| 4       |            | 6-Tetradecene, (Z)-                 | 196              | C14H28   | 041446-61-1  | 58   |
| 5       |            | cis-9-Hexadecenoic acid             | 254              | C16H30O2 | 1000333-19-5 | 55   |



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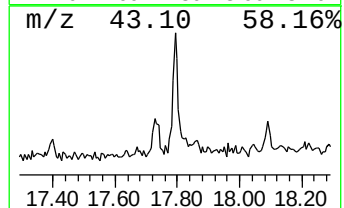
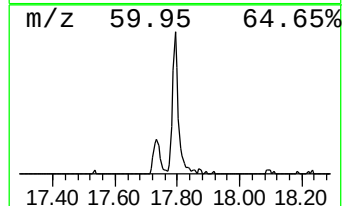
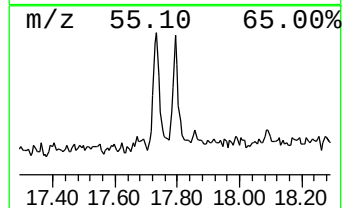
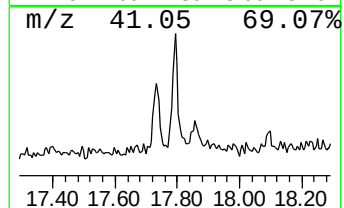
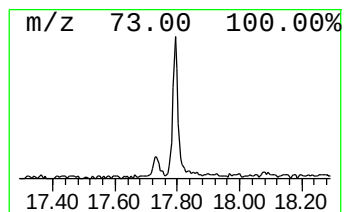
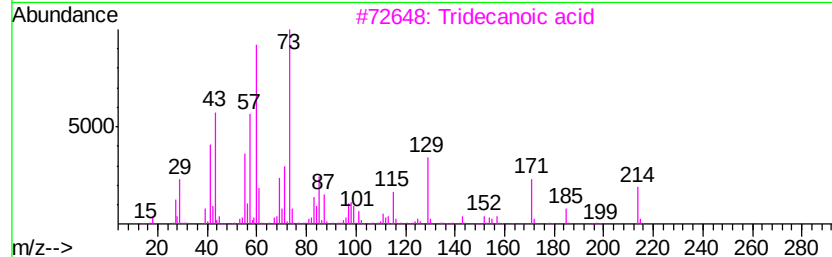
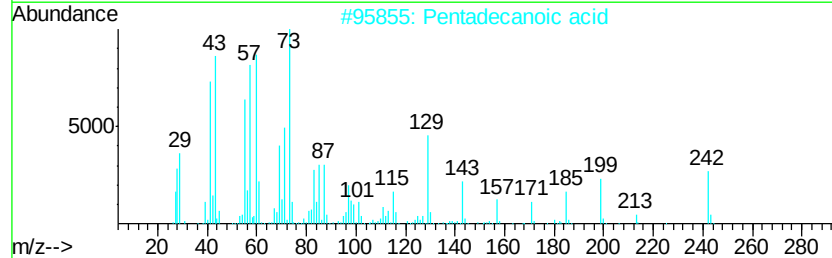
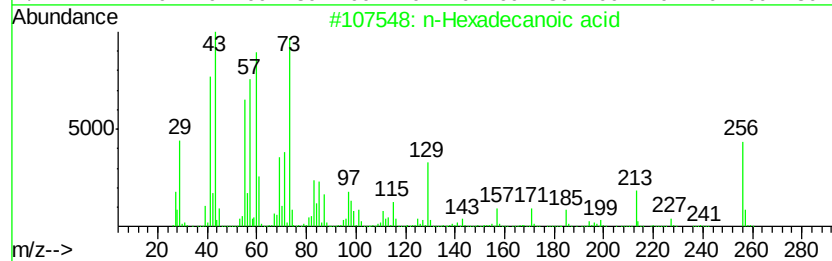
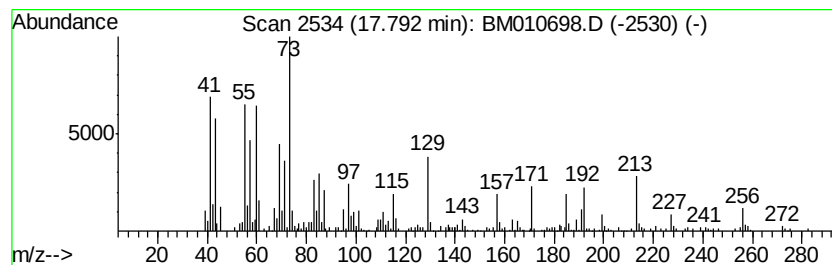
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM062017.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 n-Hexadecanoic acid Concentration Rank 2

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 17.79     | 5.09 ng/ul          | 345153 | Phenanthrene-d10 | 16.87       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 89   |
| 2         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 70   |
| 3         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 70   |
| 4         | Undecanoic acid     | 186    | C11H22O2         | 000112-37-8 | 64   |
| 5         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 62   |



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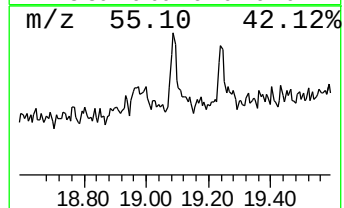
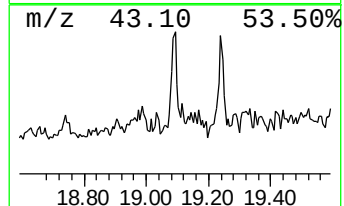
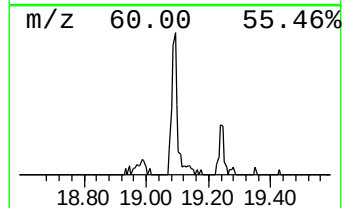
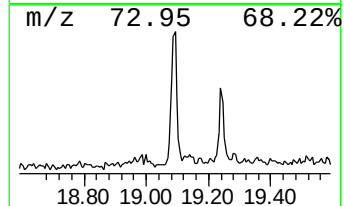
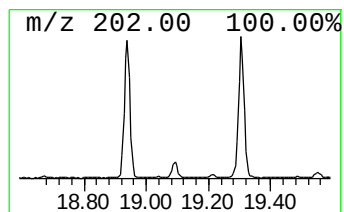
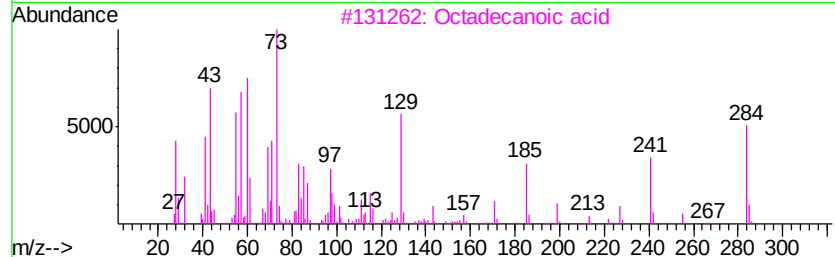
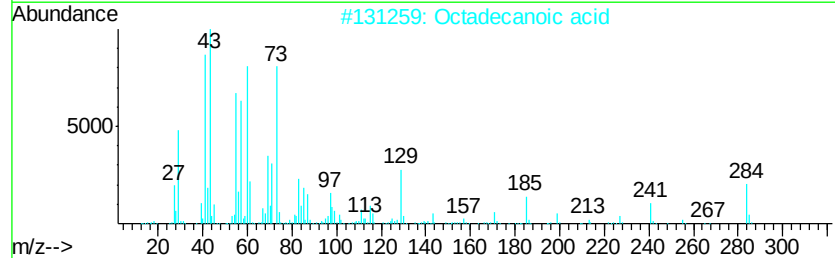
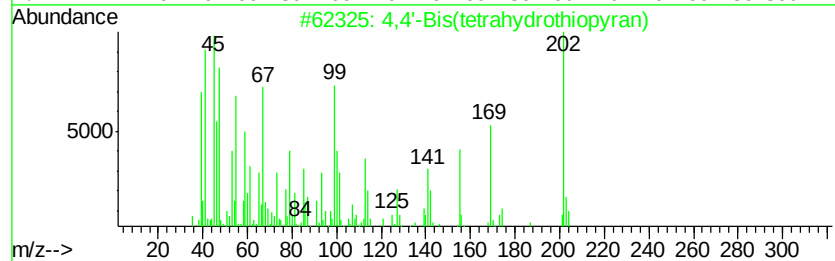
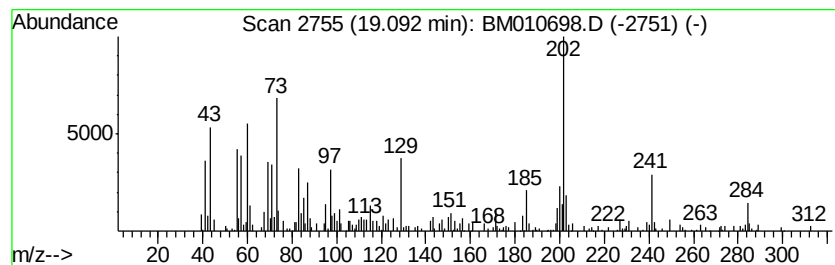
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Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 4,4'-Bis(tetrahydrothiopyran) Concentration Rank 4

| R.T.    | EstConc                       | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------|--------------|------------------|-----------|
| 19.09   | 2.42 ng/ul                    | 249588       | Chrysene-d12     | 21.09     |
| Hit# of | 5                             | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 4,4'-Bis(tetrahydrothiopyran) | 202 C10H18S2 | 116196-83-9      | 91        |
| 2       | Octadecanoic acid             | 284 C18H36O2 | 000057-11-4      | 87        |
| 3       | Octadecanoic acid             | 284 C18H36O2 | 000057-11-4      | 83        |
| 4       | Pentadecanoic acid            | 242 C15H30O2 | 001002-84-2      | 72        |
| 5       | Pentadecanoic acid            | 242 C15H30O2 | 001002-84-2      | 43        |



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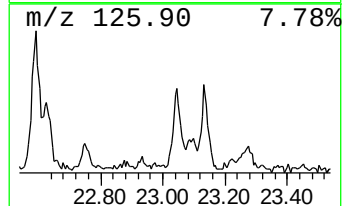
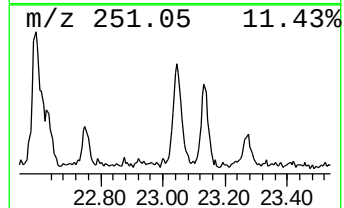
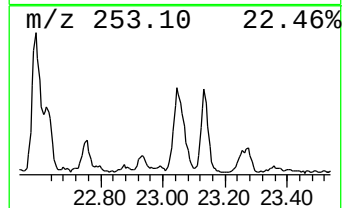
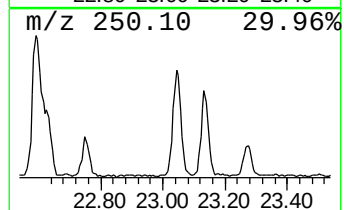
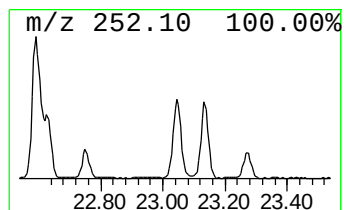
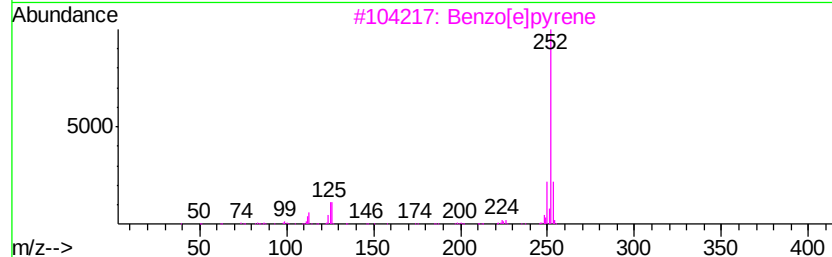
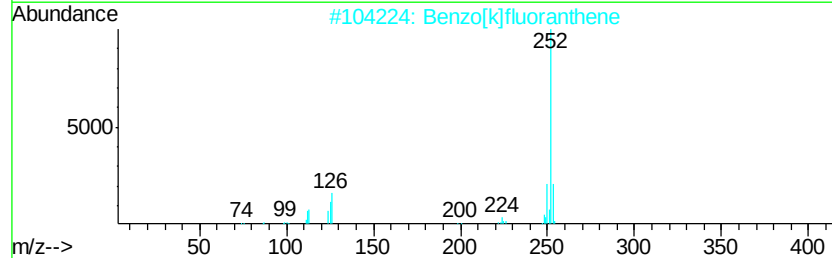
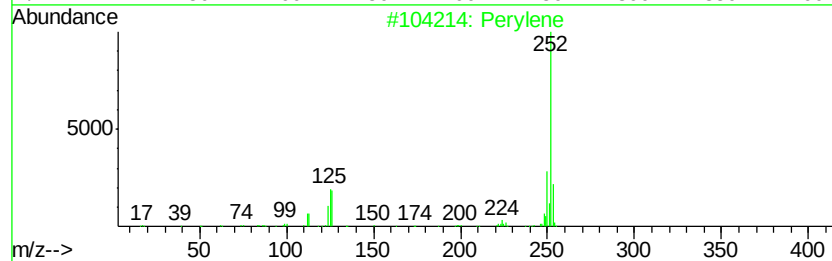
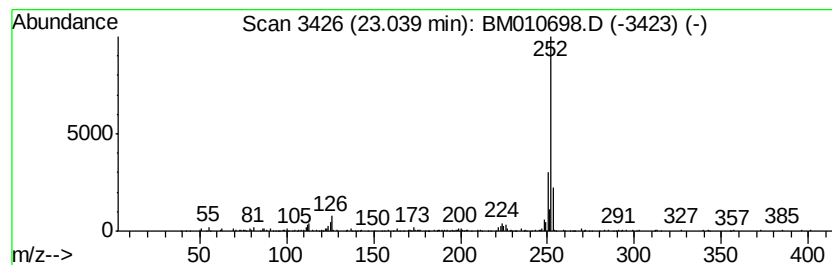
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Perylene Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.04 | 8.02 ng/ul | 390354 | Perylene-d12     | 23.23 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Perylene             | 252 | C20H12  | 000198-55-0 | 94   |
| 2    |    | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 94   |
| 3    |    | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 93   |
| 4    |    | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 90   |
| 5    |    | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 90   |



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Quant Title : SVOA 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 |
| Hexadecenoic acid... | 17.73 | 3.2     | ng/ul | 217993   | 4                     | 16.87 | 1357240 | 20.0 |
| n-Hexadecanoic acid  | 17.79 | 5.1     | ng/ul | 345153   | 4                     | 16.87 | 1357240 | 20.0 |
| 4,4'-Bis(tetrahyd... | 19.09 | 2.4     | ng/ul | 249588   | 5                     | 21.09 | 2063710 | 20.0 |
| Perylene             | 23.04 | 8.0     | ng/ul | 390354   | 6                     | 23.23 | 973961  | 20.0 |