

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM110118\  
 Data File : BM017464.D  
 Acq On : 01 Nov 2018 14:20  
 Operator : MJ/SJ  
 Sample : J5704-06  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A40G6

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.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         | 3.222       | 36            | 40          | 46           | rVB      | 40016          | 54588         | 0.72%           | 0.070%        |
| 2         | 3.493       | 84            | 86          | 90           | rBV      | 11580          | 16944         | 0.22%           | 0.022%        |
| 3         | 6.822       | 646           | 652         | 666          | rBV2     | 846898         | 1696548       | 22.38%          | 2.175%        |
| 4         | 6.987       | 674           | 680         | 693          | rVB      | 713727         | 1112671       | 14.68%          | 1.426%        |
| 5         | 7.181       | 706           | 713         | 722          | rBV      | 885222         | 1453163       | 19.17%          | 1.863%        |
| 6         | 7.639       | 785           | 791         | 799          | rBV      | 761212         | 1261539       | 16.64%          | 1.617%        |
| 7         | 7.710       | 799           | 803         | 807          | rVB3     | 17346          | 26411         | 0.35%           | 0.034%        |
| 8         | 8.351       | 905           | 912         | 923          | rBV      | 1095194        | 1880678       | 24.81%          | 2.411%        |
| 9         | 8.463       | 929           | 931         | 939          | rVB8     | 6048           | 9148          | 0.12%           | 0.012%        |
| 10        | 8.792       | 980           | 987         | 998          | rBV      | 902064         | 1531271       | 20.20%          | 1.963%        |
| 11        | 9.198       | 1051          | 1056        | 1060         | rVB      | 19819          | 28308         | 0.37%           | 0.036%        |
| 12        | 9.510       | 1100          | 1109        | 1123         | rBV      | 773378         | 1333098       | 17.58%          | 1.709%        |
| 13        | 10.045      | 1191          | 1200        | 1219         | rBV      | 1032605        | 2058369       | 27.15%          | 2.639%        |
| 14        | 10.416      | 1255          | 1263        | 1272         | rBV      | 1255254        | 2087187       | 27.53%          | 2.675%        |
| 15        | 10.563      | 1281          | 1288        | 1310         | rBV      | 1105378        | 2217277       | 29.25%          | 2.842%        |
| 16        | 11.257      | 1401          | 1406        | 1414         | rVB6     | 3435           | 9746          | 0.13%           | 0.012%        |
| 17        | 12.016      | 1530          | 1535        | 1541         | rBV2     | 21534          | 36608         | 0.48%           | 0.047%        |
| 18        | 13.510      | 1783          | 1789        | 1793         | rBV2     | 32268          | 53364         | 0.70%           | 0.068%        |
| 19        | 13.704      | 1814          | 1822        | 1827         | rBV      | 2280165        | 3394412       | 44.77%          | 4.351%        |
| 20        | 13.751      | 1827          | 1830        | 1843         | rVB      | 360303         | 562191        | 7.42%           | 0.721%        |
| 21        | 13.974      | 1861          | 1868        | 1887         | rBV      | 2660629        | 4173043       | 55.04%          | 5.349%        |
| 22        | 14.192      | 1902          | 1905        | 1910         | rVB5     | 8536           | 8657          | 0.11%           | 0.011%        |
| 23        | 14.286      | 1914          | 1921        | 1933         | rBV2     | 1968647        | 3102060       | 40.92%          | 3.976%        |
| 24        | 14.516      | 1954          | 1960        | 1989         | rBV      | 498230         | 1520114       | 20.05%          | 1.949%        |
| 25        | 14.727      | 1994          | 1996        | 2005         | rVB8     | 17758          | 37041         | 0.49%           | 0.047%        |
| 26        | 15.092      | 2054          | 2058        | 2061         | rBV4     | 7285           | 11284         | 0.15%           | 0.014%        |
| 27        | 15.151      | 2061          | 2068        | 2070         | rVB4     | 9570           | 17212         | 0.23%           | 0.022%        |
| 28        | 15.286      | 2084          | 2091        | 2106         | rBV      | 3460336        | 5394937       | 71.16%          | 6.915%        |
| 29        | 15.415      | 2106          | 2113        | 2124         | rVV      | 936762         | 1518688       | 20.03%          | 1.947%        |
| 30        | 15.527      | 2127          | 2132        | 2137         | rVV2     | 49653          | 97188         | 1.28%           | 0.125%        |
| 31        | 15.574      | 2137          | 2140        | 2147         | rVB2     | 47864          | 66107         | 0.87%           | 0.085%        |
| 32        | 15.857      | 2182          | 2188        | 2189         | rBV4     | 6592           | 11960         | 0.16%           | 0.015%        |
| 33        | 15.886      | 2189          | 2193        | 2199         | rVB      | 27223          | 36598         | 0.48%           | 0.047%        |
| 34        | 15.968      | 2204          | 2207        | 2209         | rVV4     | 8369           | 8695          | 0.11%           | 0.011%        |

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 16.015 | 2212 | 2215 | 2221 | rVV7 | 8343    | 16869   | 0.22%   | 0.022% |
| 36 | 16.074 | 2221 | 2225 | 2229 | rVB6 | 6760    | 10060   | 0.13%   | 0.013% |
| 37 | 16.192 | 2240 | 2245 | 2249 | rBV7 | 5982    | 12007   | 0.16%   | 0.015% |
| 38 | 16.462 | 2288 | 2291 | 2296 | rVB5 | 9051    | 13434   | 0.18%   | 0.017% |
| 39 | 16.827 | 2350 | 2353 | 2356 | rVB3 | 8752    | 11898   | 0.16%   | 0.015% |
| 40 | 17.039 | 2382 | 2389 | 2399 | rBV2 | 2682967 | 3930149 | 51.84%  | 5.038% |
| 41 | 17.139 | 2399 | 2406 | 2419 | rVV  | 4140645 | 6042769 | 79.70%  | 7.746% |
| 42 | 17.274 | 2424 | 2429 | 2434 | rVB  | 29079   | 45361   | 0.60%   | 0.058% |
| 43 | 17.433 | 2452 | 2456 | 2461 | rVB5 | 11532   | 16691   | 0.22%   | 0.021% |
| 44 | 17.545 | 2471 | 2475 | 2479 | rBV6 | 8377    | 12035   | 0.16%   | 0.015% |
| 45 | 17.645 | 2490 | 2492 | 2496 | rVB5 | 8457    | 10209   | 0.13%   | 0.013% |
| 46 | 17.815 | 2517 | 2521 | 2523 | rBV5 | 15303   | 19065   | 0.25%   | 0.024% |
| 47 | 17.945 | 2538 | 2543 | 2554 | rBV  | 453956  | 683443  | 9.01%   | 0.876% |
| 48 | 18.239 | 2590 | 2593 | 2596 | rVB5 | 12353   | 13493   | 0.18%   | 0.017% |
| 49 | 18.609 | 2654 | 2656 | 2660 | rBV5 | 11368   | 13645   | 0.18%   | 0.017% |
| 50 | 18.809 | 2687 | 2690 | 2694 | rBV6 | 17325   | 22169   | 0.29%   | 0.028% |
| 51 | 18.880 | 2698 | 2702 | 2704 | rBV3 | 16987   | 25663   | 0.34%   | 0.033% |
| 52 | 18.992 | 2718 | 2721 | 2726 | rBV7 | 14322   | 25941   | 0.34%   | 0.033% |
| 53 | 19.074 | 2731 | 2735 | 2740 | rBV  | 71975   | 122152  | 1.61%   | 0.157% |
| 54 | 19.233 | 2758 | 2762 | 2766 | rBV2 | 142368  | 187559  | 2.47%   | 0.240% |
| 55 | 19.327 | 2774 | 2778 | 2783 | rVB  | 46806   | 66456   | 0.88%   | 0.085% |
| 56 | 19.439 | 2791 | 2797 | 2804 | rBV  | 5357437 | 7198381 | 94.95%  | 9.227% |
| 57 | 20.492 | 2974 | 2976 | 2980 | rVB4 | 61351   | 68507   | 0.90%   | 0.088% |
| 58 | 20.956 | 3050 | 3055 | 3064 | rBV  | 680554  | 963985  | 12.71%  | 1.236% |
| 59 | 21.156 | 3085 | 3089 | 3094 | rBV  | 746502  | 843498  | 11.13%  | 1.081% |
| 60 | 21.233 | 3097 | 3102 | 3111 | rBV  | 3637690 | 4900032 | 64.63%  | 6.281% |
| 61 | 21.397 | 3127 | 3130 | 3134 | rVB  | 135683  | 143023  | 1.89%   | 0.183% |
| 62 | 21.827 | 3199 | 3203 | 3208 | rBV3 | 206788  | 350123  | 4.62%   | 0.449% |
| 63 | 22.280 | 3276 | 3280 | 3284 | rBV  | 311496  | 381134  | 5.03%   | 0.489% |
| 64 | 22.403 | 3298 | 3301 | 3306 | rVB  | 314851  | 386852  | 5.10%   | 0.496% |
| 65 | 22.774 | 3360 | 3364 | 3369 | rBV  | 430181  | 616905  | 8.14%   | 0.791% |
| 66 | 23.303 | 3447 | 3454 | 3469 | rVB  | 3655701 | 7581596 | 100.00% | 9.718% |
| 67 | 23.438 | 3471 | 3477 | 3489 | rVB2 | 2120413 | 4420158 | 58.30%  | 5.666% |
| 68 | 23.962 | 3561 | 3566 | 3572 | rVB  | 534183  | 957126  | 12.62%  | 1.227% |
| 69 | 24.685 | 3685 | 3689 | 3702 | rVB  | 502673  | 1073310 | 14.16%  | 1.376% |

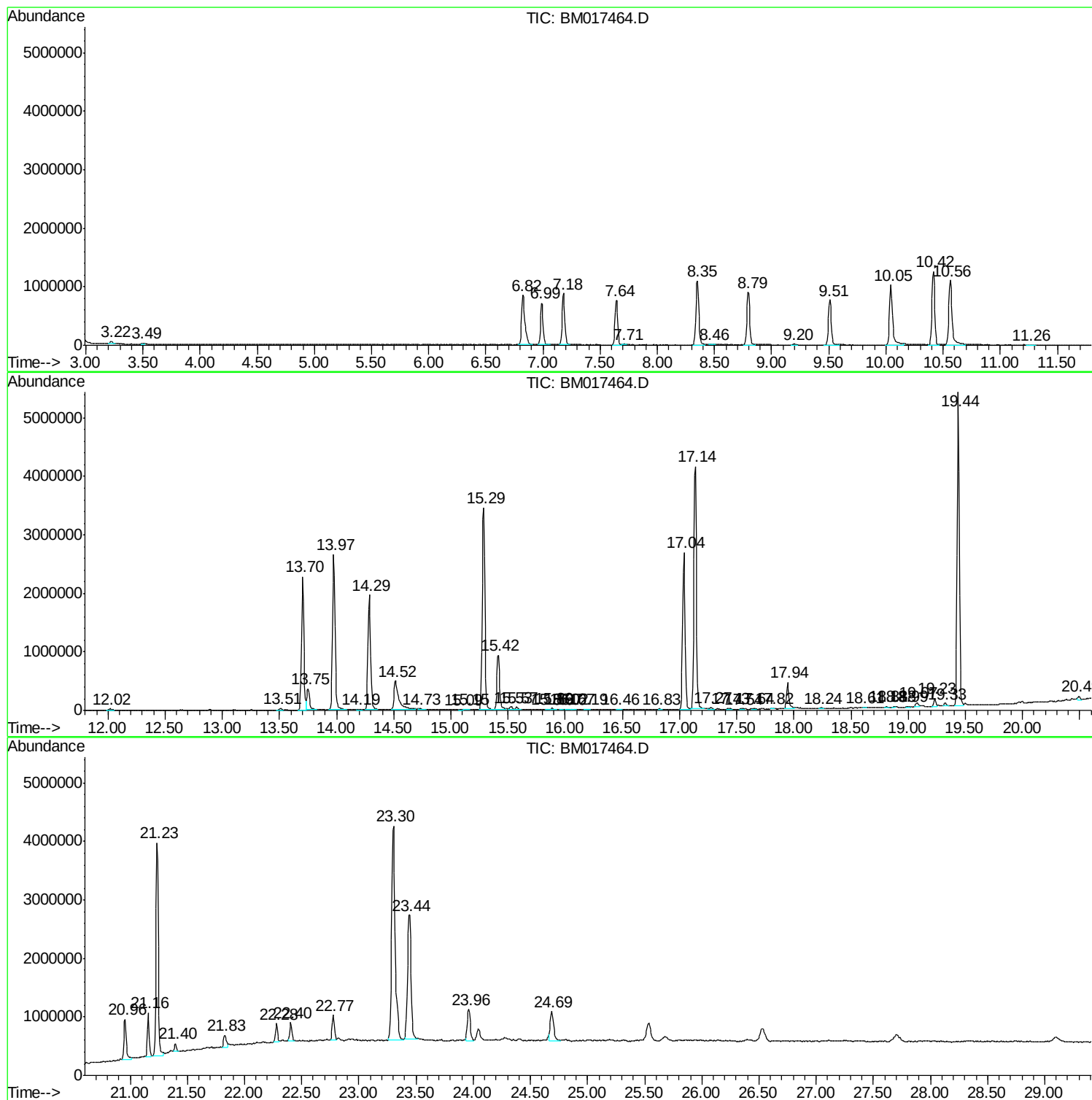
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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ALS Vial : 9 Sample Multiplier: 1

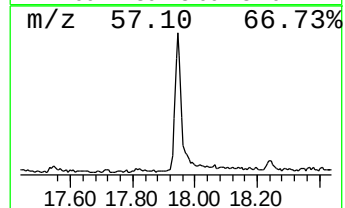
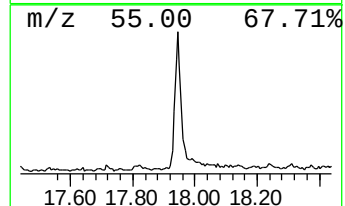
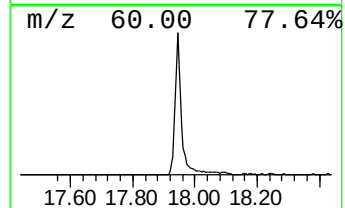
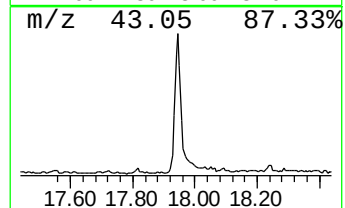
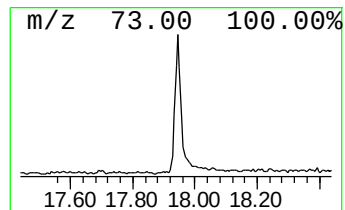
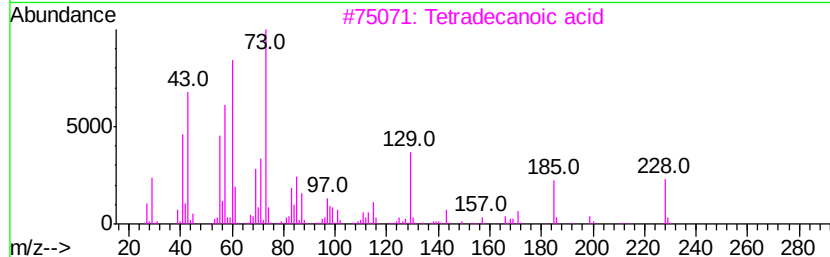
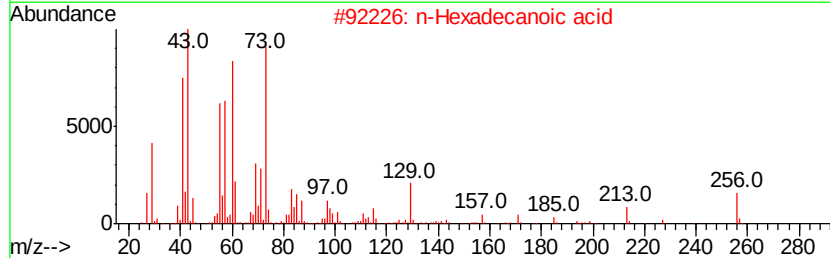
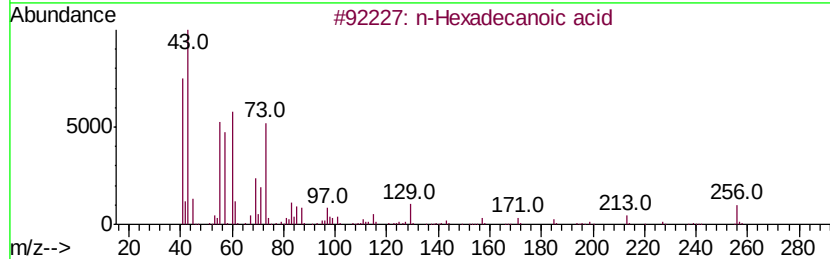
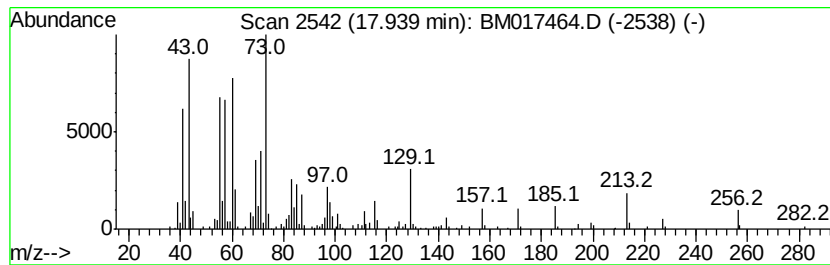
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD    |     | R.T.     |             |      |
|-------|------------|--------|---------------------|-----|----------|-------------|------|
| 17.94 | 3.48 ng/ul | 683443 | Phenanthrene-d10    |     | 17.04    |             |      |
| Hit#  | of         | 5      | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
| 1     |            |        | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 95   |
| 2     |            |        | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 94   |
| 3     |            |        | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 94   |
| 4     |            |        | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 94   |
| 5     |            |        | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 76   |



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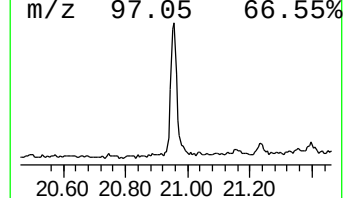
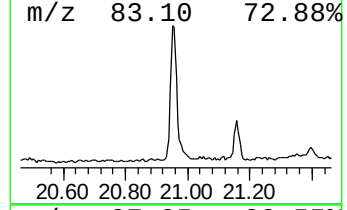
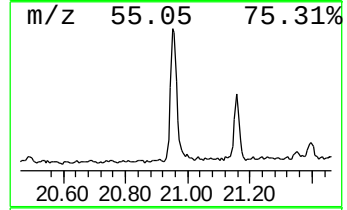
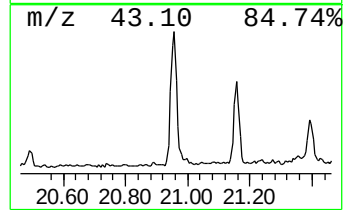
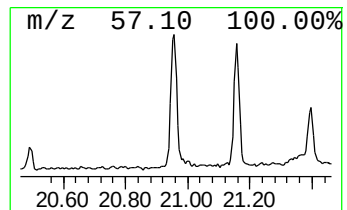
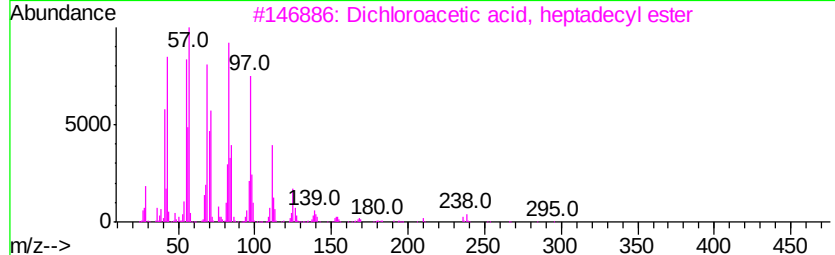
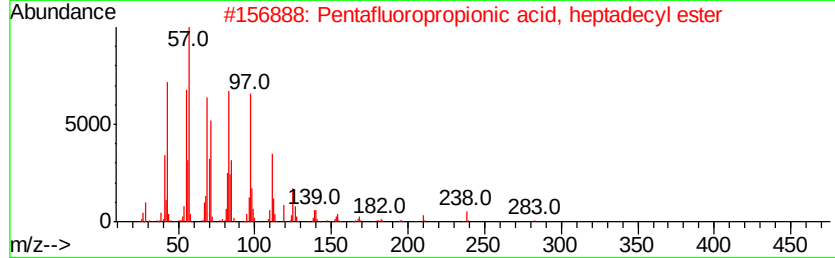
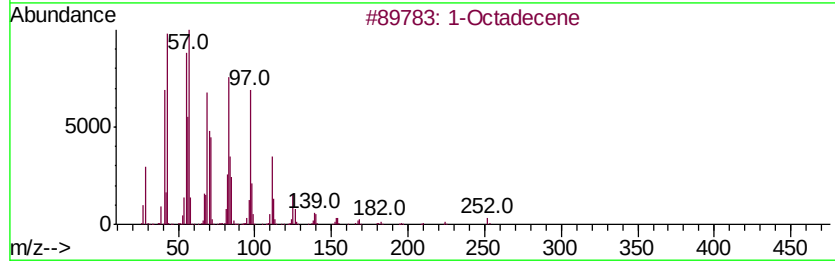
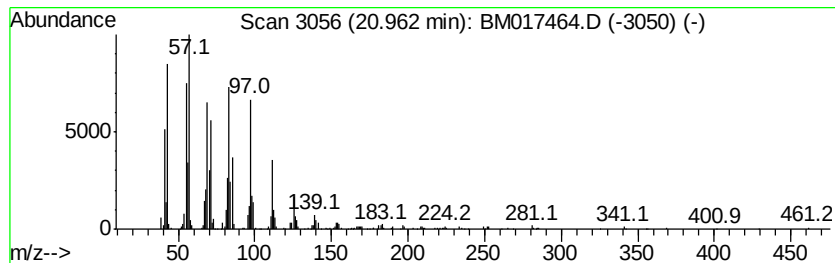
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Cyclic20.96 Concentration Rank 3

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.            |
|---------|------------|-------------------------------------|------------------|-----------------|
| 20.96   | 3.93 ng/ul | 963985                              | Chrysene-d12     | 21.23           |
| Hit# of | 5          | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1       |            | 1-Octadecene                        | 252 C18H36       | 000112-88-9 94  |
| 2       |            | Pentafluoropropionic acid, hepta... | 402 C20H35F5O2   | 1000283-04-2 94 |
| 3       |            | Dichloroacetic acid, heptadecyl ... | 366 C19H36Cl2O2  | 1000282-98-2 94 |
| 4       |            | E-14-Hexadecenal                    | 238 C16H30O      | 330207-53-9 93  |
| 5       |            | Trichloroacetic acid, hexadecyl ... | 386 C18H33Cl3O2  | 074339-54-1 93  |



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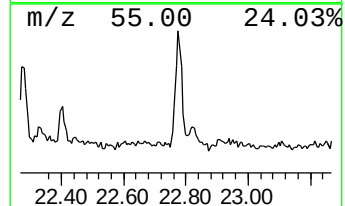
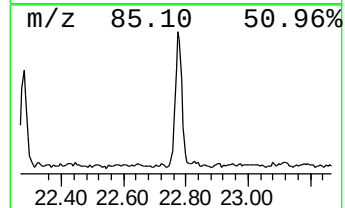
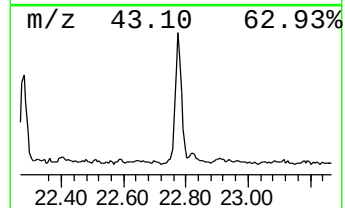
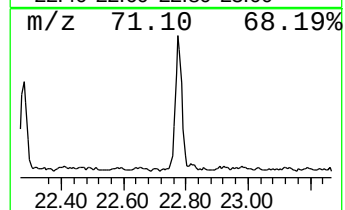
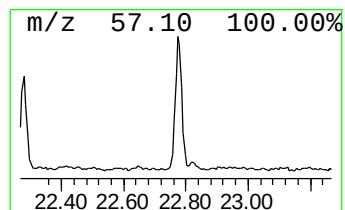
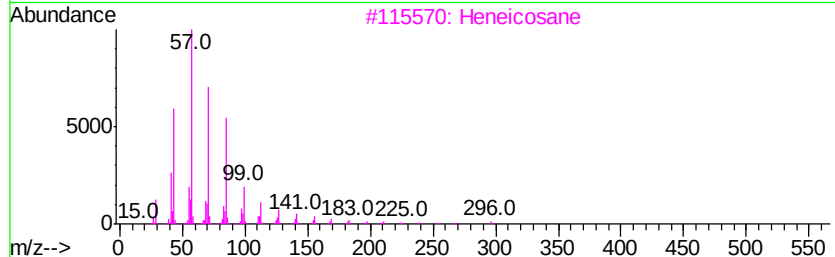
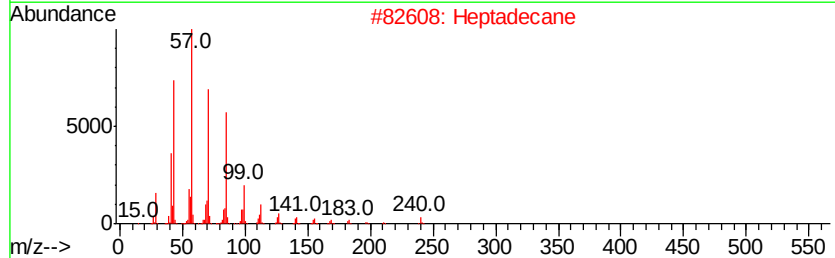
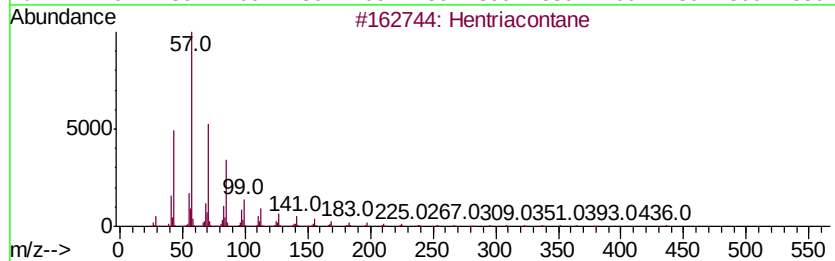
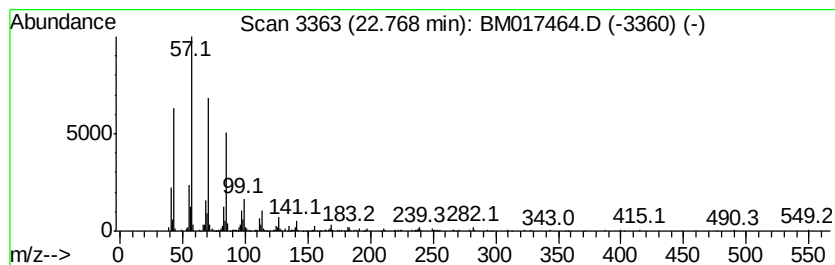
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.77 | 2.79 ng/ul | 616905 | Perylene-d12     | 23.44 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Hentriacontane        | 437 | C31H64  | 000630-04-6 | 87   |
| 2    |    | Heptadecane           | 240 | C17H36  | 000629-78-7 | 87   |
| 3    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 87   |
| 4    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 87   |
| 5    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 86   |



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Quant Title : SVOA CALIBRATION

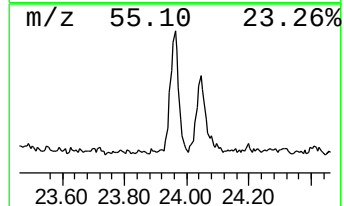
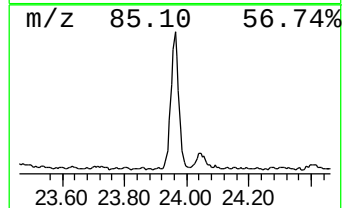
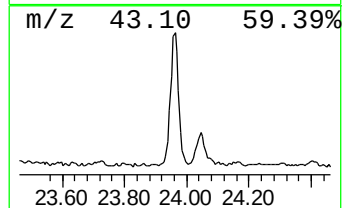
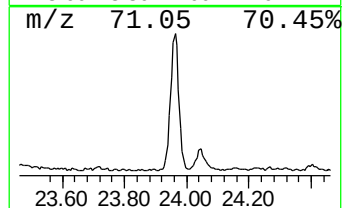
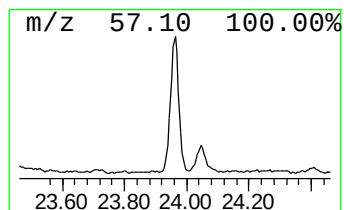
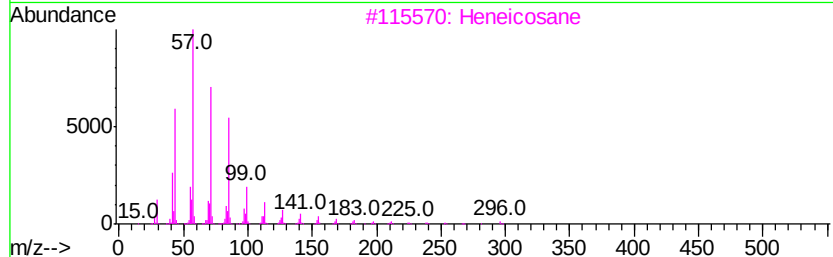
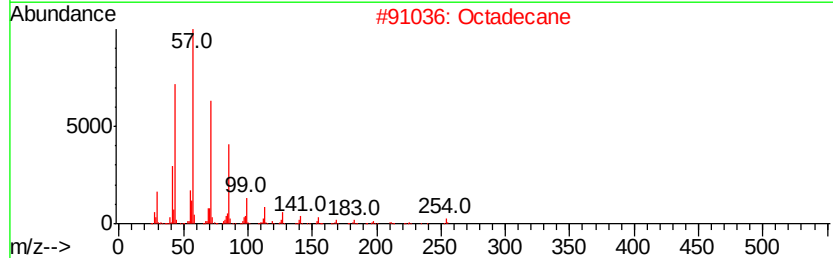
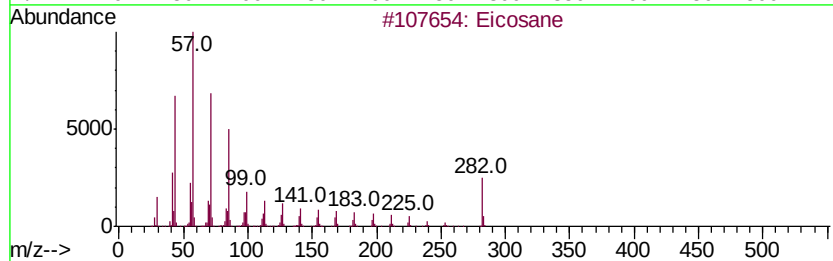
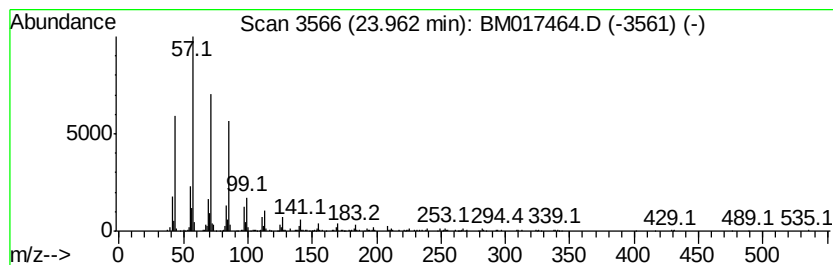
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.96 | 4.33 ng/ul | 957126 | Perylene-d12     | 23.44 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane     | 282 | C20H42  | 000112-95-8 | 93   |
| 2    |    | Octadecane   | 254 | C18H38  | 000593-45-3 | 92   |
| 3    |    | Heneicosane  | 296 | C21H44  | 000629-94-7 | 90   |
| 4    |    | Nonacosane   | 408 | C29H60  | 000630-03-5 | 90   |
| 5    |    | Octacosane   | 394 | C28H58  | 000630-02-4 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM110118\  
Data File : BM017464.D  
Acq On : 01 Nov 2018 14:20  
Operator : MJ/SJ  
Sample : J5704-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40G6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

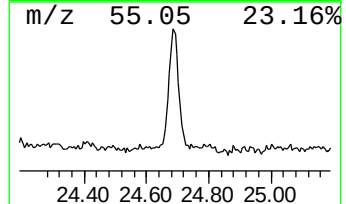
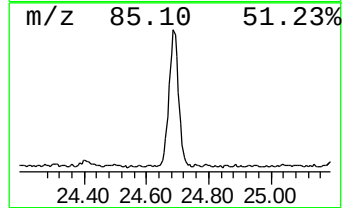
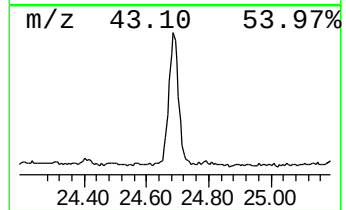
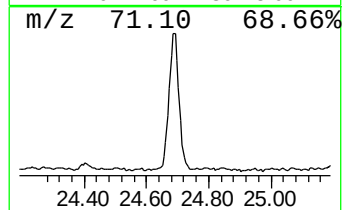
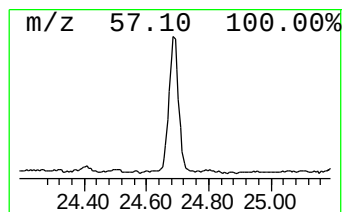
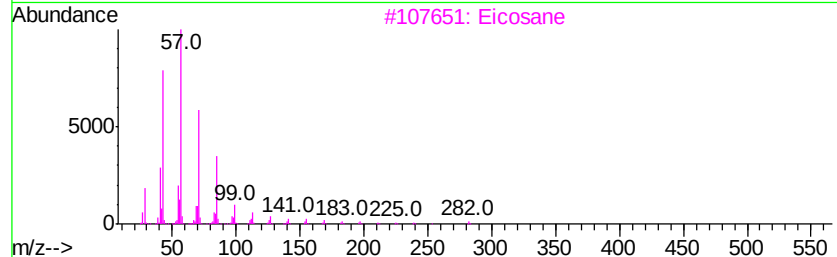
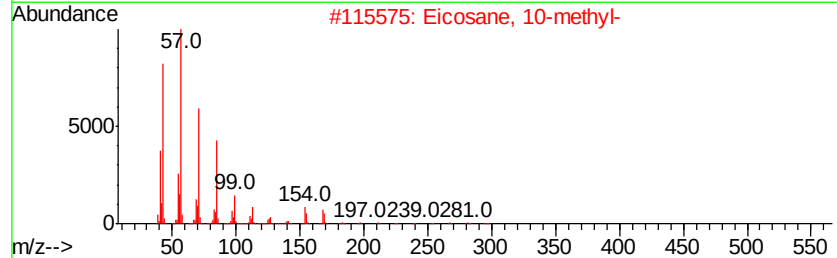
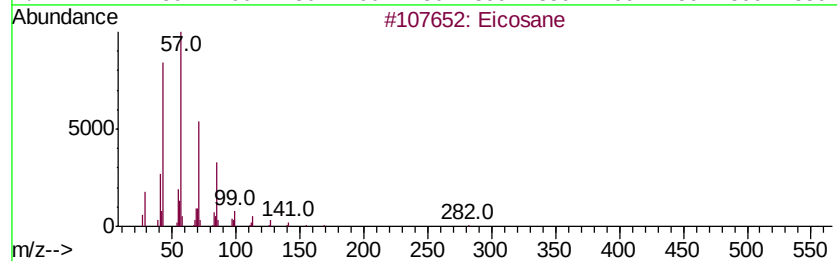
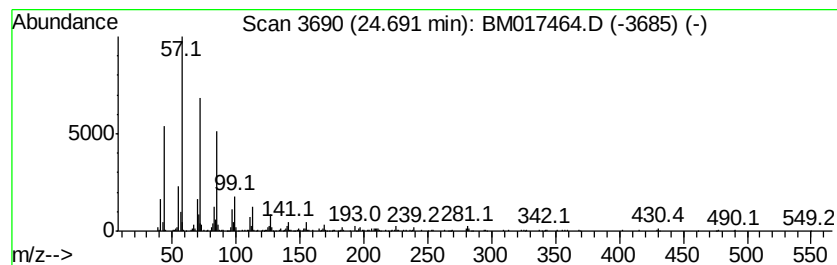
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 24.69 | 4.86 ng/ul | 1073310 | Perylene-d12     | 23.44 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane               | 282 | C20H42  | 000112-95-8 | 96   |
| 2    |    | Eicosane, 10-methyl-   | 296 | C21H44  | 054833-23-7 | 93   |
| 3    |    | Eicosane               | 282 | C20H42  | 000112-95-8 | 93   |
| 4    |    | Heptadecane, 3-methyl- | 254 | C18H38  | 006418-44-6 | 93   |
| 5    |    | Eicosane               | 282 | C20H42  | 000112-95-8 | 92   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM110118\  
Data File : BM017464.D  
Acq On : 01 Nov 2018 14:20  
Operator : MJ/SJ  
Sample : J5704-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40G6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| n-Hexadecanoic acid  | 17.94 | 3.5     | ng/ul | 683443   | 4                     | 17.04 | 3930150 | 20.0 |
| (DEL) Alkane: Cyc... | 20.96 | 3.9     | ng/ul | 963985   | 5                     | 21.23 | 4900030 | 20.0 |
| (DEL) Alkane: Str... | 22.77 | 2.8     | ng/ul | 616905   | 6                     | 23.44 | 4420160 | 20.0 |
| (DEL) Alkane: Str... | 23.96 | 4.3     | ng/ul | 957126   | 6                     | 23.44 | 4420160 | 20.0 |
| (DEL) Alkane: Str... | 24.69 | 4.9     | ng/ul | 1073310  | 6                     | 23.44 | 4420160 | 20.0 |