

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM032919\  
 Data File : BM019598.D  
 Acq On : 30 Mar 2019 02:17  
 Operator : JU/SJ  
 Sample : K2084-06  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BF7W8

## 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-BM032219MA.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         | 3.122       | 21            | 23          | 34           | rVB      | 34909          | 61140         | 1.06%           | 0.131%        |
| 2         | 6.757       | 635           | 641         | 657          | rBV      | 476625         | 958827        | 16.67%          | 2.055%        |
| 3         | 6.928       | 665           | 670         | 691          | rBV      | 379077         | 705300        | 12.26%          | 1.512%        |
| 4         | 7.110       | 695           | 701         | 718          | rVB      | 551732         | 947345        | 16.47%          | 2.031%        |
| 5         | 7.575       | 774           | 780         | 790          | rBV      | 532987         | 881439        | 15.33%          | 1.889%        |
| 6         | 8.287       | 895           | 901         | 917          | rBV      | 641242         | 1188109       | 20.66%          | 2.547%        |
| 7         | 8.746       | 972           | 979         | 997          | rBV      | 514861         | 905356        | 15.74%          | 1.941%        |
| 8         | 9.075       | 1029          | 1035        | 1039         | rBV3     | 9428           | 11716         | 0.20%           | 0.025%        |
| 9         | 9.457       | 1092          | 1100        | 1115         | rBV      | 435306         | 778684        | 13.54%          | 1.669%        |
| 10        | 9.987       | 1184          | 1190        | 1214         | rBV      | 595344         | 1201294       | 20.89%          | 2.575%        |
| 11        | 10.357      | 1245          | 1253        | 1267         | rBV      | 803634         | 1338764       | 23.28%          | 2.870%        |
| 12        | 10.522      | 1274          | 1281        | 1309         | rBV      | 502455         | 1164992       | 20.26%          | 2.497%        |
| 13        | 11.987      | 1525          | 1530        | 1536         | rBV3     | 4651           | 11484         | 0.20%           | 0.025%        |
| 14        | 12.939      | 1689          | 1692        | 1699         | rVB4     | 5042           | 6508          | 0.11%           | 0.014%        |
| 15        | 13.657      | 1808          | 1814        | 1819         | rBV      | 1341334        | 1911994       | 33.25%          | 4.099%        |
| 16        | 13.704      | 1819          | 1822        | 1835         | rVB      | 201386         | 301712        | 5.25%           | 0.647%        |
| 17        | 13.928      | 1850          | 1860        | 1871         | rBV      | 1670944        | 2322983       | 40.39%          | 4.980%        |
| 18        | 14.233      | 1906          | 1912        | 1927         | rVB2     | 1159890        | 1798961       | 31.28%          | 3.856%        |
| 19        | 14.480      | 1947          | 1954        | 1977         | rBV      | 277756         | 776287        | 13.50%          | 1.664%        |
| 20        | 14.669      | 1983          | 1986        | 1997         | rVB4     | 9072           | 17236         | 0.30%           | 0.037%        |
| 21        | 15.028      | 2043          | 2047        | 2051         | rBV2     | 5123           | 7192          | 0.13%           | 0.015%        |
| 22        | 15.075      | 2051          | 2055        | 2060         | rVB3     | 7849           | 11141         | 0.19%           | 0.024%        |
| 23        | 15.239      | 2076          | 2083        | 2096         | rBV      | 1987258        | 2916473       | 50.71%          | 6.252%        |
| 24        | 15.380      | 2102          | 2107        | 2118         | rBV      | 535996         | 818332        | 14.23%          | 1.754%        |
| 25        | 15.480      | 2120          | 2124        | 2128         | rVB2     | 26466          | 37828         | 0.66%           | 0.081%        |
| 26        | 15.945      | 2197          | 2203        | 2210         | rVB2     | 6669           | 12711         | 0.22%           | 0.027%        |
| 27        | 16.022      | 2212          | 2216        | 2221         | rVB6     | 6219           | 8692          | 0.15%           | 0.019%        |
| 28        | 16.139      | 2231          | 2236        | 2242         | rVB2     | 9451           | 13822         | 0.24%           | 0.030%        |
| 29        | 16.786      | 2344          | 2346        | 2349         | rVB3     | 7236           | 7380          | 0.13%           | 0.016%        |
| 30        | 16.998      | 2376          | 2382        | 2392         | rBV2     | 1442435        | 2111694       | 36.72%          | 4.527%        |
| 31        | 17.092      | 2392          | 2398        | 2416         | rVV      | 2204631        | 3249717       | 56.50%          | 6.966%        |
| 32        | 17.286      | 2425          | 2431        | 2437         | rBV5     | 6665           | 11693         | 0.20%           | 0.025%        |
| 33        | 17.339      | 2437          | 2440        | 2443         | rBV2     | 6883           | 7676          | 0.13%           | 0.016%        |
| 34        | 17.380      | 2443          | 2447        | 2453         | rVV5     | 3955           | 6718          | 0.12%           | 0.014%        |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 17.480 | 2460 | 2464 | 2468 | rVB4 | 8324    | 11530   | 0.20%   | 0.025%  |
| 36 | 17.886 | 2528 | 2533 | 2545 | rBV  | 186189  | 341256  | 5.93%   | 0.732%  |
| 37 | 18.168 | 2578 | 2581 | 2585 | rBV3 | 17201   | 21913   | 0.38%   | 0.047%  |
| 38 | 18.610 | 2653 | 2656 | 2659 | rVB3 | 6174    | 7085    | 0.12%   | 0.015%  |
| 39 | 18.651 | 2661 | 2663 | 2667 | rVB4 | 12134   | 12296   | 0.21%   | 0.026%  |
| 40 | 18.815 | 2688 | 2691 | 2695 | rVB3 | 12647   | 15762   | 0.27%   | 0.034%  |
| 41 | 19.039 | 2724 | 2729 | 2735 | rBV  | 35050   | 68039   | 1.18%   | 0.146%  |
| 42 | 19.180 | 2748 | 2753 | 2765 | rBV  | 94727   | 181104  | 3.15%   | 0.388%  |
| 43 | 19.292 | 2769 | 2772 | 2776 | rVB  | 26201   | 30335   | 0.53%   | 0.065%  |
| 44 | 19.404 | 2785 | 2791 | 2797 | rBV  | 3008618 | 3944393 | 68.58%  | 8.455%  |
| 45 | 19.739 | 2844 | 2848 | 2851 | rBV  | 90178   | 106064  | 1.84%   | 0.227%  |
| 46 | 19.774 | 2851 | 2854 | 2859 | rVB  | 178726  | 203077  | 3.53%   | 0.435%  |
| 47 | 19.939 | 2874 | 2882 | 2886 | rBV  | 53316   | 77802   | 1.35%   | 0.167%  |
| 48 | 20.433 | 2963 | 2966 | 2971 | rVB2 | 93712   | 105416  | 1.83%   | 0.226%  |
| 49 | 20.474 | 2971 | 2973 | 2977 | rBV5 | 13290   | 14431   | 0.25%   | 0.031%  |
| 50 | 20.715 | 3011 | 3014 | 3017 | rBV3 | 39541   | 47218   | 0.82%   | 0.101%  |
| 51 | 20.751 | 3017 | 3020 | 3023 | rVB  | 77835   | 74790   | 1.30%   | 0.160%  |
| 52 | 20.898 | 3041 | 3045 | 3059 | rBV  | 460922  | 570879  | 9.93%   | 1.224%  |
| 53 | 21.198 | 3091 | 3096 | 3107 | rBV  | 2151996 | 2916340 | 50.71%  | 6.251%  |
| 54 | 21.339 | 3116 | 3120 | 3125 | rBV  | 192689  | 211488  | 3.68%   | 0.453%  |
| 55 | 21.756 | 3188 | 3191 | 3201 | rBV  | 217059  | 316041  | 5.50%   | 0.677%  |
| 56 | 22.209 | 3264 | 3268 | 3275 | rBV  | 277987  | 393673  | 6.85%   | 0.844%  |
| 57 | 22.703 | 3347 | 3352 | 3357 | rVB  | 306640  | 440440  | 7.66%   | 0.944%  |
| 58 | 23.262 | 3440 | 3447 | 3459 | rBV2 | 3172602 | 5751207 | 100.00% | 12.328% |
| 59 | 23.403 | 3464 | 3471 | 3486 | rVB  | 1848167 | 3361900 | 58.46%  | 7.207%  |
| 60 | 23.874 | 3547 | 3551 | 3558 | rVB  | 269128  | 481994  | 8.38%   | 1.033%  |
| 61 | 24.597 | 3669 | 3674 | 3681 | rVB  | 212098  | 432779  | 7.53%   | 0.928%  |

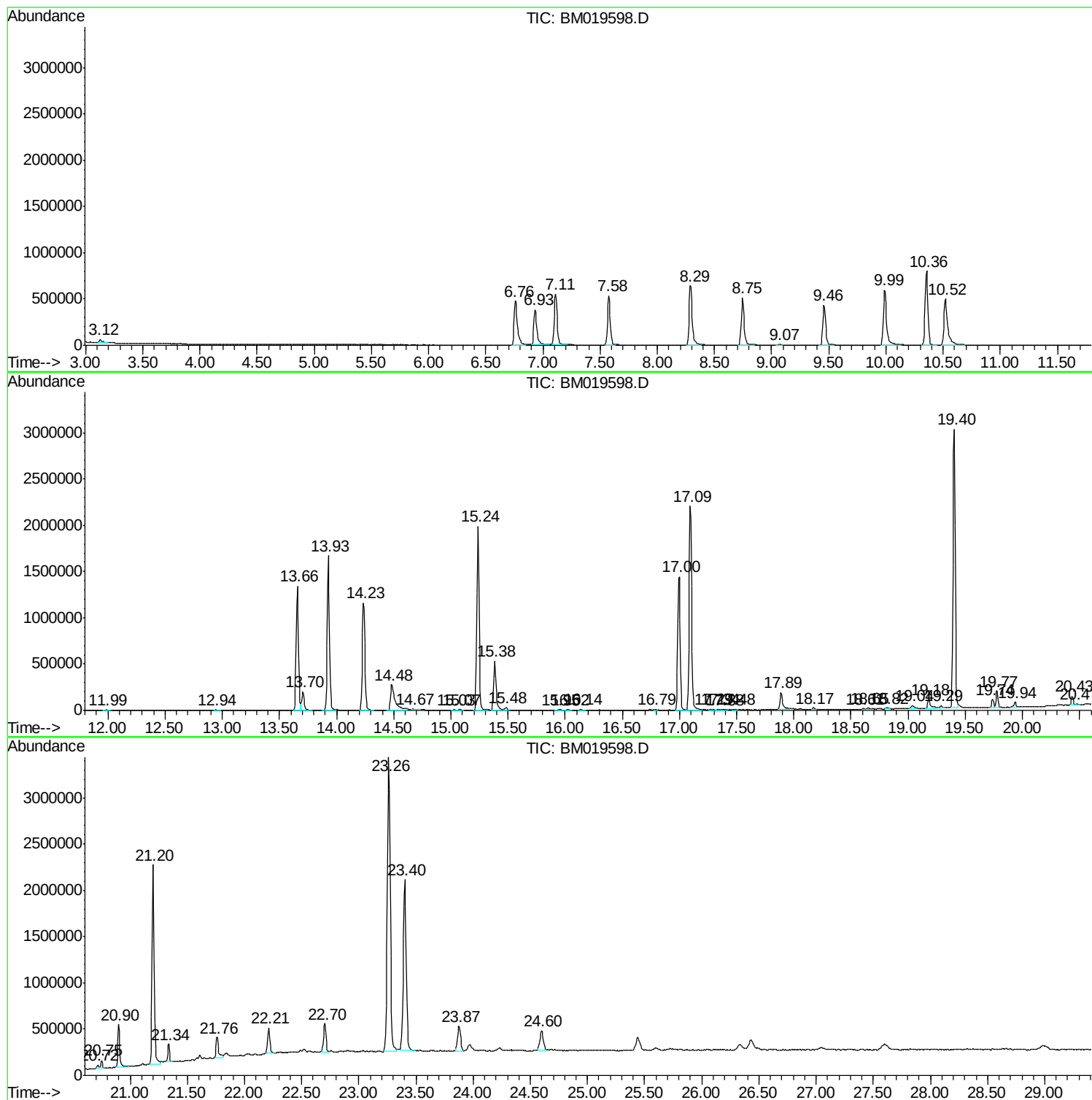
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Instrument :  
BNA\_M  
ClientSampleId :  
BF7W8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

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



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Sample : K2084-06  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

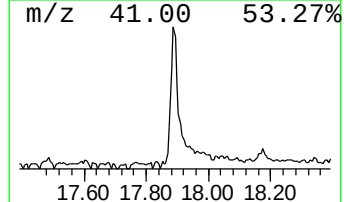
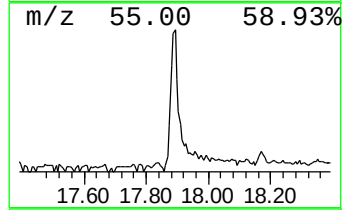
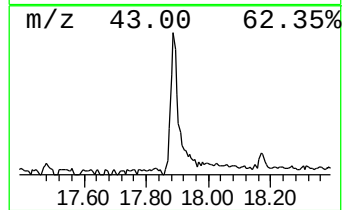
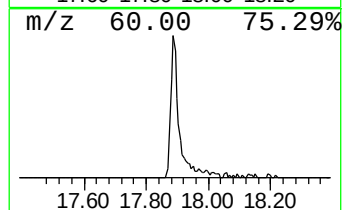
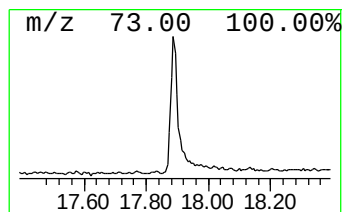
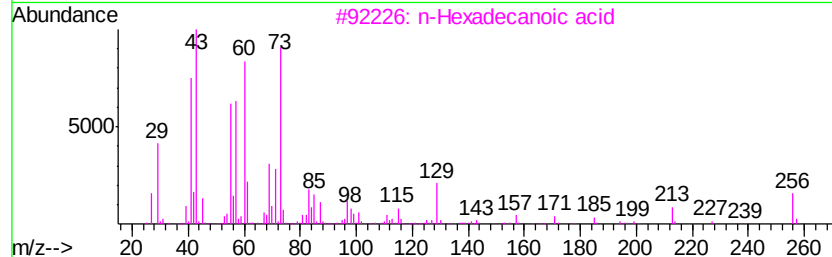
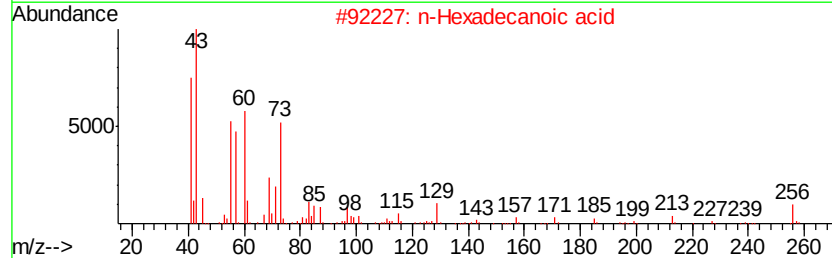
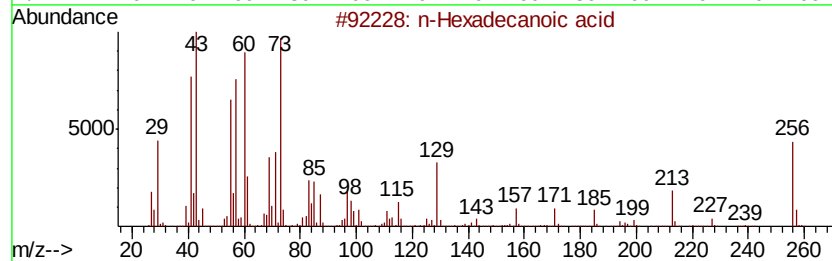
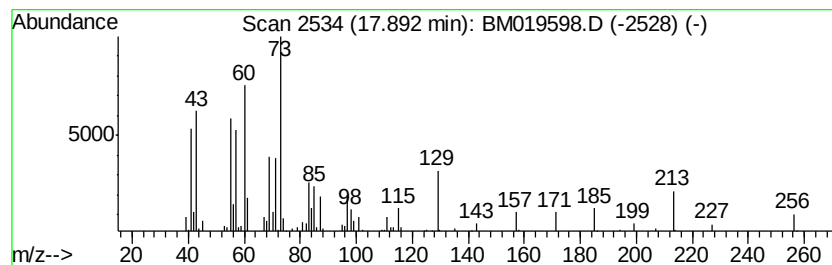
Instrument :  
BNA\_M  
ClientSampleId :  
BF7W8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.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 2

| R.T.    | EstConc             | Area         | Relative to ISTD |             | R.T.  |      |
|---------|---------------------|--------------|------------------|-------------|-------|------|
| 17.89   | 3.23 ng/ul          | 341256       | Phenanthrene-d10 |             | 17.00 |      |
| Hit# of | 5                   | Tentative ID | MW               | MolForm     | CAS#  | Qual |
| 1       | n-Hexadecanoic acid | 256          | C16H32O2         | 000057-10-3 | 98    |      |
| 2       | n-Hexadecanoic acid | 256          | C16H32O2         | 000057-10-3 | 95    |      |
| 3       | n-Hexadecanoic acid | 256          | C16H32O2         | 000057-10-3 | 95    |      |
| 4       | Tetradecanoic acid  | 228          | C14H28O2         | 000544-63-8 | 72    |      |
| 5       | Pentadecanoic acid  | 242          | C15H30O2         | 001002-84-2 | 64    |      |



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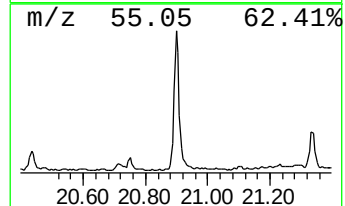
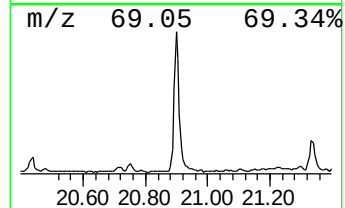
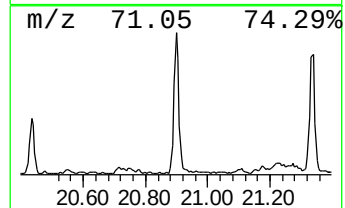
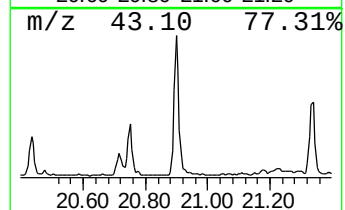
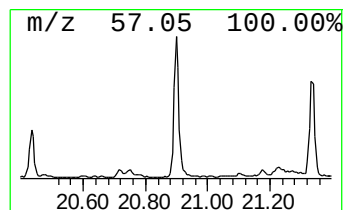
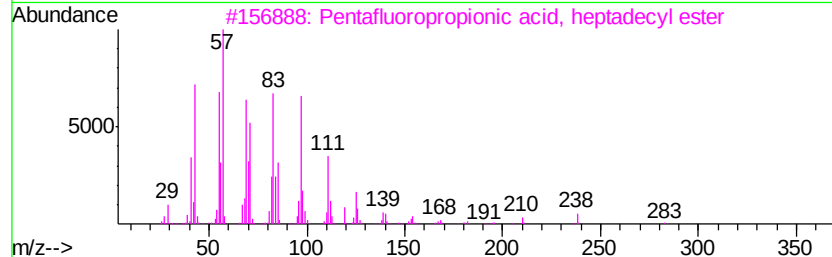
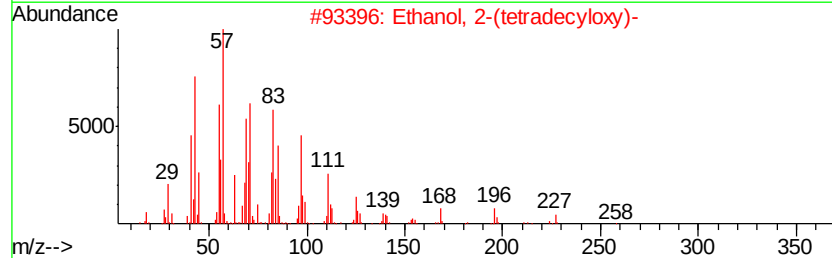
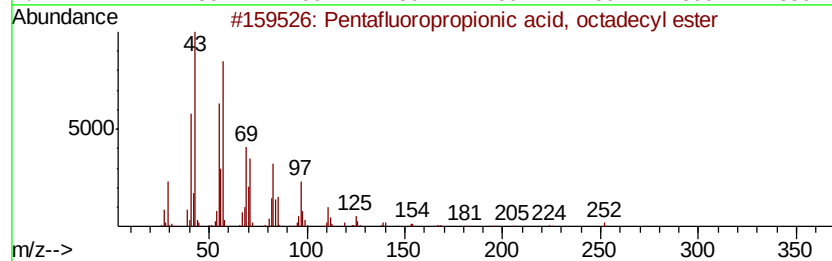
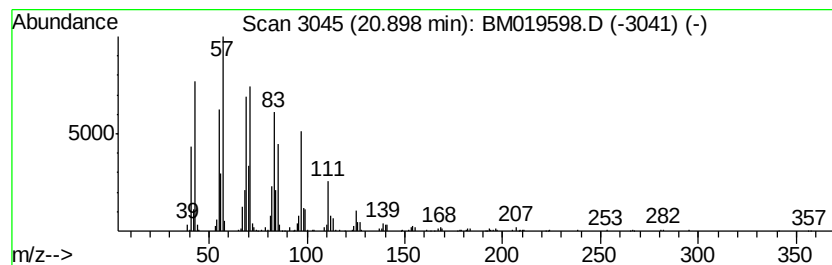
Instrument :  
BNA\_M  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 Pentafluoropropionic acid, ... Concentration Rank 1

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.       |              |      |
|---------|------------|-------------------------------------|------------------|------------|--------------|------|
| 20.90   | 3.92 ng/ul | 570879                              | Chrysene-d12     | 21.20      |              |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm    | CAS#         | Qual |
| 1       |            | Pentafluoropropionic acid, octad... | 416              | C21H37F5O2 | 1000280-07-7 | 87   |
| 2       |            | Ethanol, 2-(tetradecyloxy)-         | 258              | C16H34O2   | 002136-70-1  | 81   |
| 3       |            | Pentafluoropropionic acid, hepta... | 402              | C20H35F5O2 | 1000283-04-2 | 76   |
| 4       |            | Heptafluorobutanoic acid, heptad... | 452              | C21H35F7O2 | 1000282-97-3 | 76   |
| 5       |            | 1-Octadecanol                       | 270              | C18H38O    | 000112-92-5  | 64   |



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Quant Title : SVOA CALIBRATION

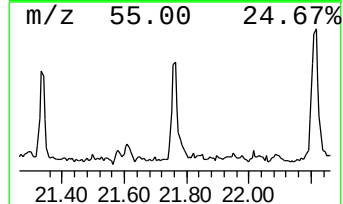
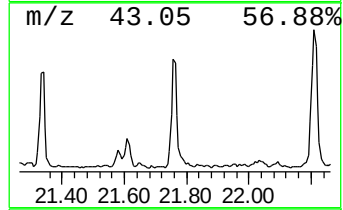
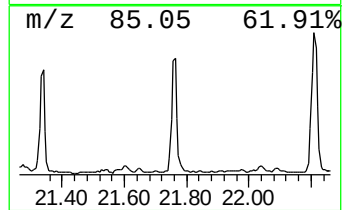
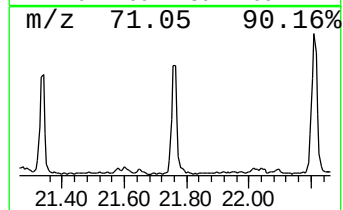
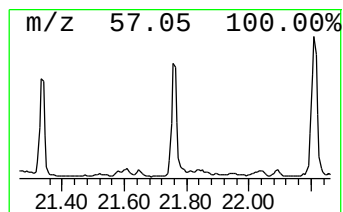
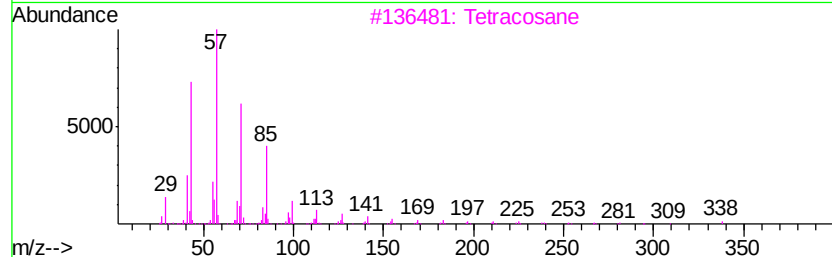
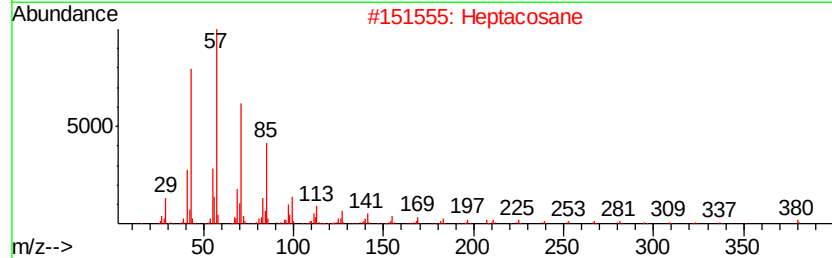
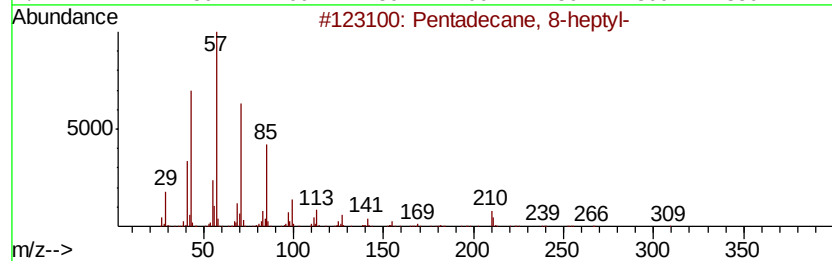
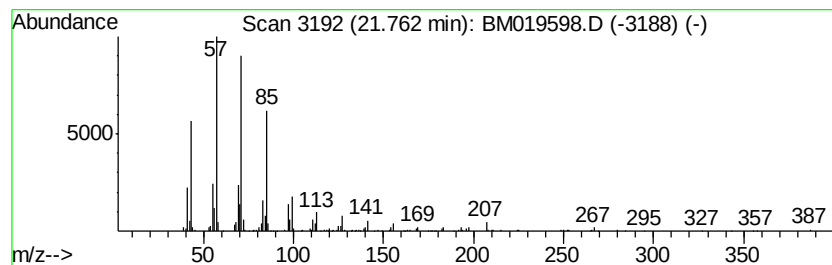
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.76 | 2.17 ng/ul | 316041 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 8-heptyl- | 310 | C22H46  | 071005-15-7 | 91   |
| 2    |    | Heptacosane            | 380 | C27H56  | 000593-49-7 | 90   |
| 3    |    | Tetracosane            | 338 | C24H50  | 000646-31-1 | 90   |
| 4    |    | Octadecane, 2-methyl-  | 268 | C19H40  | 001560-88-9 | 90   |
| 5    |    | Dodecane, 1-iodo-      | 296 | C12H25I | 004292-19-7 | 86   |



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Quant Title : SVOA CALIBRATION

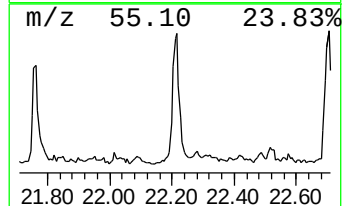
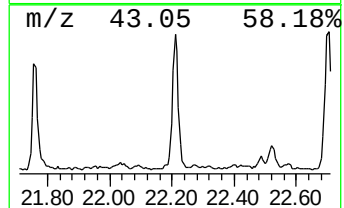
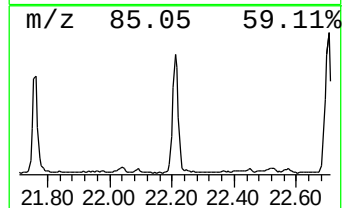
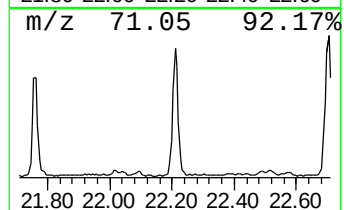
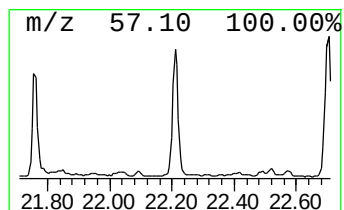
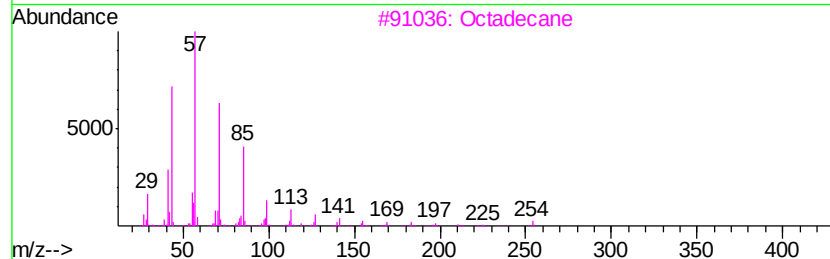
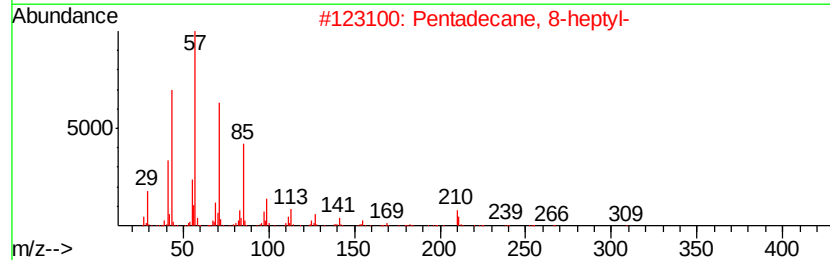
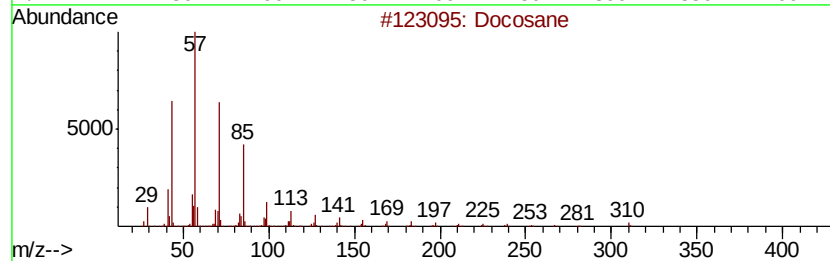
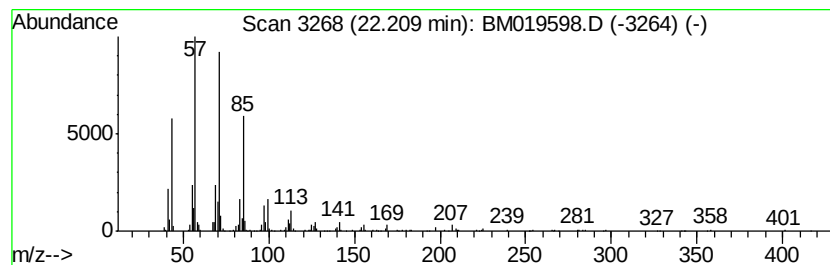
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.21 | 2.70 ng/ul | 393673 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Docosane                            | 310 | C22H46    | 000629-97-0  | 90   |
| 2    |    | Pentadecane, 8-heptyl-              | 310 | C22H46    | 071005-15-7  | 90   |
| 3    |    | Octadecane                          | 254 | C18H38    | 000593-45-3  | 87   |
| 4    |    | Dodecane, 1-iodo-                   | 296 | C12H25I   | 004292-19-7  | 86   |
| 5    |    | 2-Thiopheneacetic acid, 4-tetrad... | 338 | C20H34O2S | 1000280-67-0 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM032919\  
Data File : BM019598.D  
Acq On : 30 Mar 2019 02:17  
Operator : JU/SJ  
Sample : K2084-06  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BF7W8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

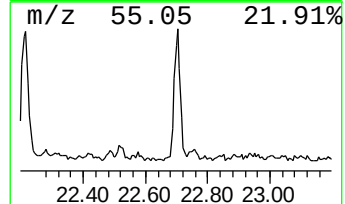
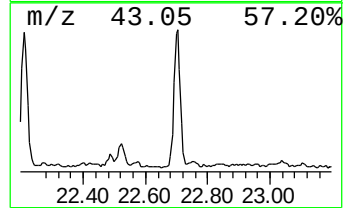
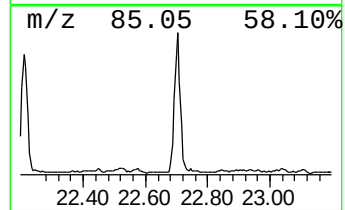
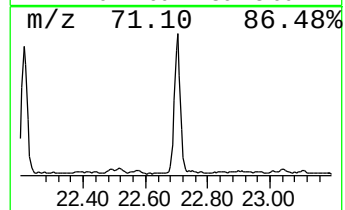
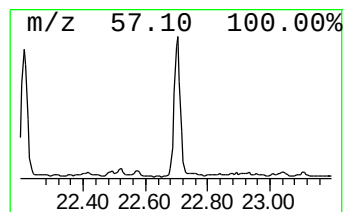
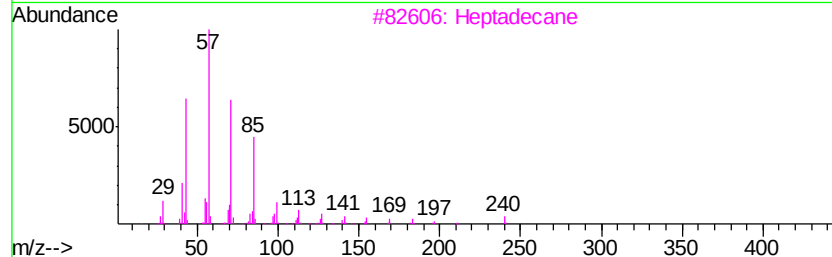
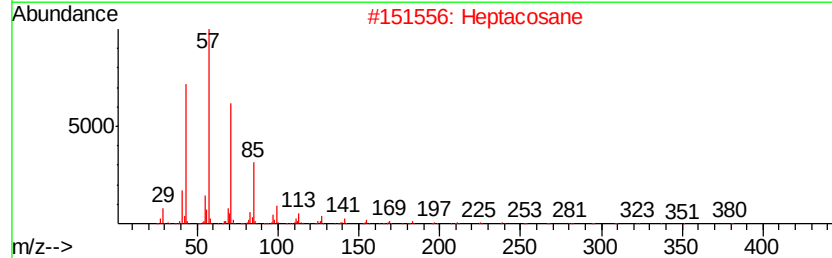
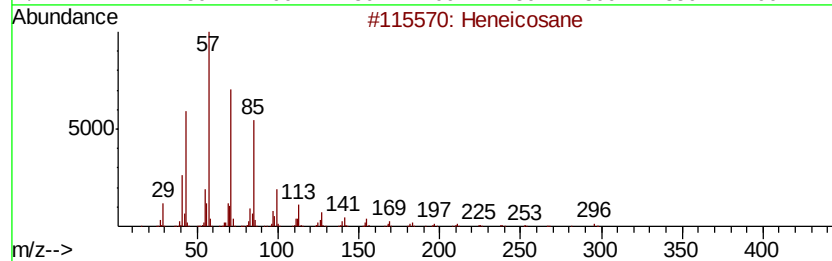
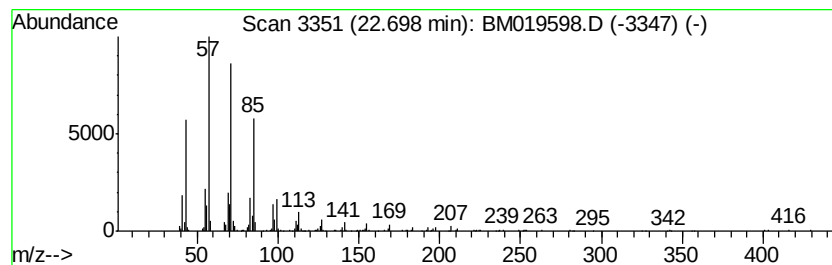
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.70 | 2.62 ng/ul | 440440 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane                      | 296 | C21H44  | 000629-94-7 | 91   |
| 2    |    | Heptacosane                      | 380 | C27H56  | 000593-49-7 | 91   |
| 3    |    | Heptadecane                      | 240 | C17H36  | 000629-78-7 | 87   |
| 4    |    | Octadecane                       | 254 | C18H38  | 000593-45-3 | 86   |
| 5    |    | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54  | 055282-11-6 | 86   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM032919\  
Data File : BM019598.D  
Acq On : 30 Mar 2019 02:17  
Operator : JU/SJ  
Sample : K2084-06  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BF7W8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

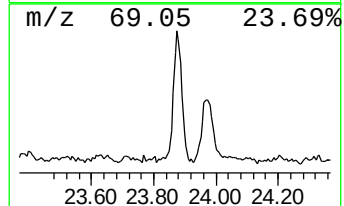
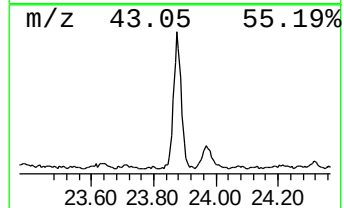
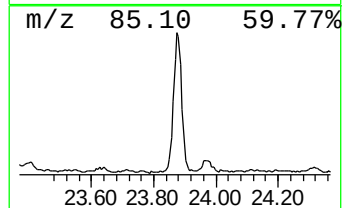
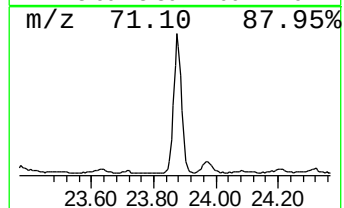
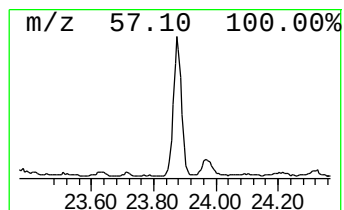
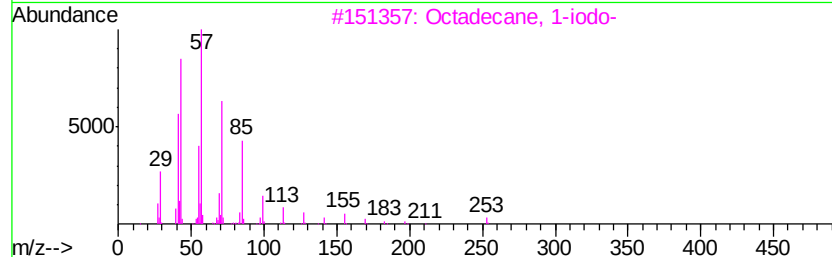
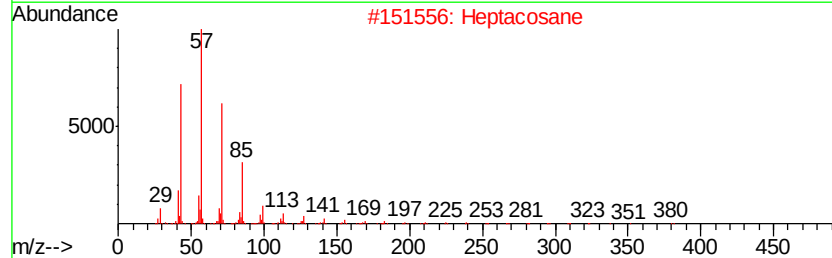
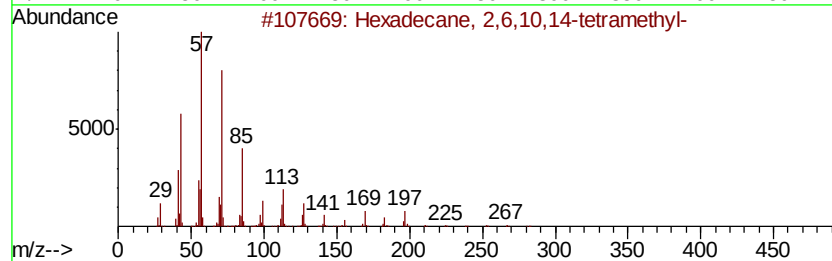
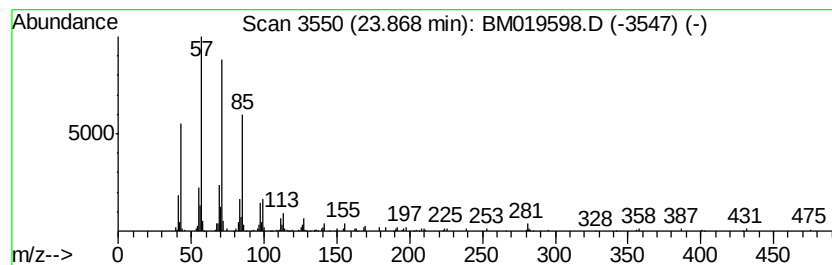
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.87 | 2.87 ng/ul | 481994 | Perylene-d12     | 23.40 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Hexadecane, 2,6,10,14-tetramethyl-  | 282 | C20H42    | 000638-36-8  | 86   |
| 2    |    |   | Heptacosane                         | 380 | C27H56    | 000593-49-7  | 81   |
| 3    |    |   | Octadecane, 1-iodo-                 | 380 | C18H37I   | 000629-93-6  | 80   |
| 4    |    |   | 2-Thiopheneacetic acid, 4-tetrad... | 338 | C20H34O2S | 1000280-67-0 | 80   |
| 5    |    |   | Pentadecane, 8-heptyl-              | 310 | C22H46    | 071005-15-7  | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM032919\  
Data File : BM019598.D  
Acq On : 30 Mar 2019 02:17  
Operator : JU/SJ  
Sample : K2084-06  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BF7W8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

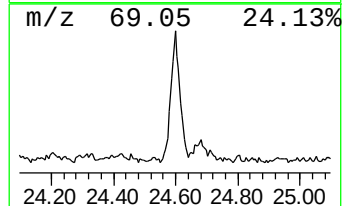
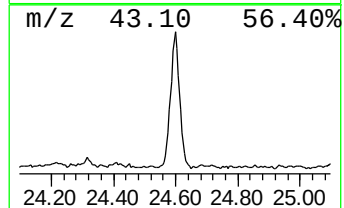
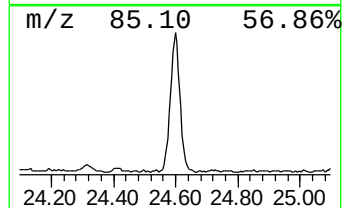
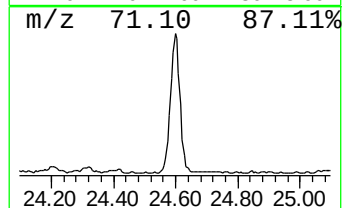
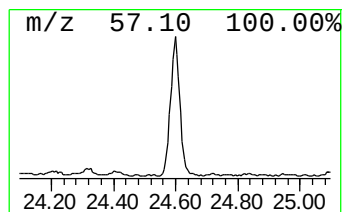
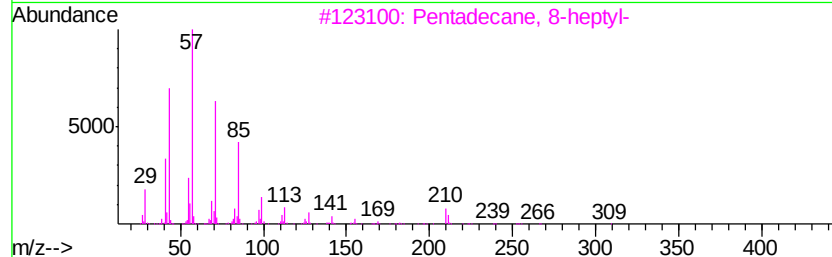
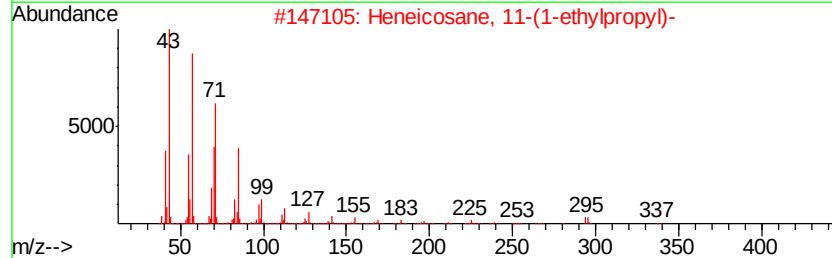
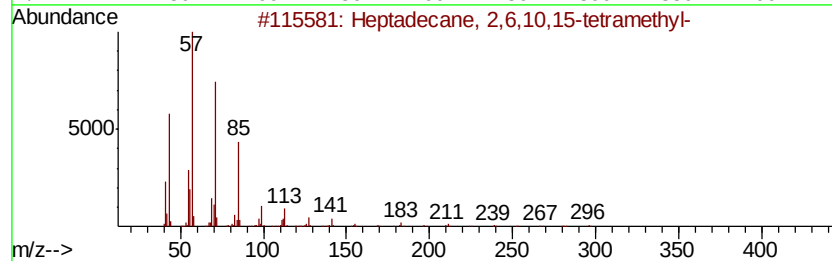
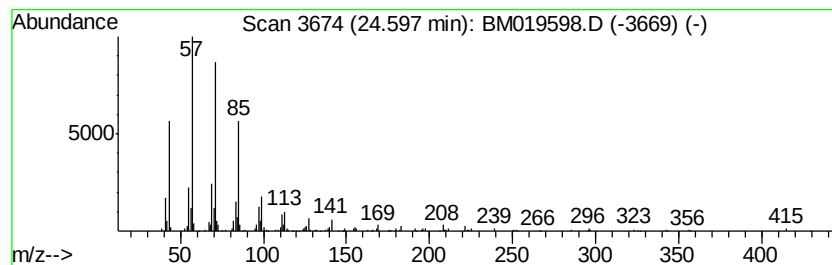
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.60 | 2.57 ng/ul | 432779 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 93   |
| 2    |    | Heneicosane, 11-(1-ethylpropyl)-    | 366 | C26H54  | 055282-11-6 | 91   |
| 3    |    | Pentadecane, 8-heptyl-              | 310 | C22H46  | 071005-15-7 | 90   |
| 4    |    | Heptacosane                         | 380 | C27H56  | 000593-49-7 | 90   |
| 5    |    | Nonacosane                          | 408 | C29H60  | 000630-03-5 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM032919\  
Data File : BM019598.D  
Acq On : 30 Mar 2019 02:17  
Operator : JU/SJ  
Sample : K2084-06  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BF7W8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.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  | 17.89 | 3.2     | ng/ul | 341256   | 4                     | 17.00 | 2111690 | 20.0 |
| Pentafluoropropio... | 20.90 | 3.9     | ng/ul | 570879   | 5                     | 21.20 | 2916340 | 20.0 |
| (DEL) Alkane: Str... | 21.76 | 2.2     | ng/ul | 316041   | 5                     | 21.20 | 2916340 | 20.0 |
| (DEL) Alkane: Str... | 22.21 | 2.7     | ng/ul | 393673   | 5                     | 21.20 | 2916340 | 20.0 |
| (DEL) Alkane: Str... | 22.70 | 2.6     | ng/ul | 440440   | 6                     | 23.40 | 3361900 | 20.0 |
| (DEL) Alkane: Str... | 23.87 | 2.9     | ng/ul | 481994   | 6                     | 23.40 | 3361900 | 20.0 |
| (DEL) Alkane: Str... | 24.60 | 2.6     | ng/ul | 432779   | 6                     | 23.40 | 3361900 | 20.0 |