

Data Path : Z:\HPCHEM1\BNA M\DATA\BM031318\  
 Data File : BM014561.D  
 Acq On : 14 Mar 2018 02:05  
 Operator : SJ/JU  
 Sample : J1813-07  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F6F28

## 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-BM021418.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         | 3.058       | 25            | 29          | 33           | rVB5     | 19044          | 24178         | 1.02%           | 0.073%        |
| 2         | 3.552       | 109           | 113         | 119          | rBV      | 56626          | 83778         | 3.55%           | 0.251%        |
| 3         | 4.634       | 292           | 297         | 299          | rBV3     | 30552          | 45113         | 1.91%           | 0.135%        |
| 4         | 4.663       | 299           | 302         | 308          | rVB2     | 50866          | 72274         | 3.06%           | 0.217%        |
| 5         | 4.763       | 314           | 319         | 328          | rVB7     | 12951          | 25360         | 1.07%           | 0.076%        |
| 6         | 6.704       | 641           | 649         | 663          | rBV      | 494102         | 996698        | 42.21%          | 2.989%        |
| 7         | 6.834       | 664           | 671         | 681          | rVV      | 398026         | 624819        | 26.46%          | 1.874%        |
| 8         | 7.022       | 697           | 703         | 716          | rBV      | 624315         | 1055301       | 44.70%          | 3.165%        |
| 9         | 7.475       | 774           | 780         | 790          | rBV      | 525974         | 868404        | 36.78%          | 2.605%        |
| 10        | 8.222       | 899           | 907         | 920          | rBV      | 618924         | 1189629       | 50.39%          | 3.568%        |
| 11        | 8.645       | 971           | 979         | 990          | rBV      | 602467         | 1058777       | 44.84%          | 3.176%        |
| 12        | 9.357       | 1093          | 1100        | 1111         | rBV      | 538789         | 976355        | 41.35%          | 2.928%        |
| 13        | 9.910       | 1188          | 1194        | 1214         | rBV      | 601706         | 1409654       | 59.70%          | 4.228%        |
| 14        | 10.251      | 1245          | 1252        | 1262         | rVB      | 705694         | 1193455       | 50.55%          | 3.580%        |
| 15        | 10.428      | 1269          | 1282        | 1295         | rBV3     | 176312         | 484162        | 20.51%          | 1.452%        |
| 16        | 12.645      | 1654          | 1659        | 1666         | rVB6     | 15527          | 24995         | 1.06%           | 0.075%        |
| 17        | 12.939      | 1706          | 1709        | 1717         | rVB5     | 23201          | 37639         | 1.59%           | 0.113%        |
| 18        | 13.380      | 1778          | 1784        | 1788         | rVB8     | 20031          | 32165         | 1.36%           | 0.096%        |
| 19        | 13.569      | 1810          | 1816        | 1821         | rBV      | 1334886        | 1895285       | 80.27%          | 5.685%        |
| 20        | 13.616      | 1821          | 1824        | 1831         | rVB      | 260663         | 357730        | 15.15%          | 1.073%        |
| 21        | 13.833      | 1853          | 1861        | 1873         | rVB      | 1399579        | 2132650       | 90.33%          | 6.397%        |
| 22        | 14.039      | 1889          | 1896        | 1900         | rBV      | 65803          | 106171        | 4.50%           | 0.318%        |
| 23        | 14.145      | 1908          | 1914        | 1921         | rBV2     | 909570         | 1357280       | 57.49%          | 4.071%        |
| 24        | 14.463      | 1962          | 1968        | 1980         | rBV2     | 246153         | 697698        | 29.55%          | 2.093%        |
| 25        | 14.592      | 1986          | 1990        | 1994         | rVB6     | 40616          | 59000         | 2.50%           | 0.177%        |
| 26        | 14.998      | 2056          | 2059        | 2065         | rVB      | 85992          | 103461        | 4.38%           | 0.310%        |
| 27        | 15.151      | 2079          | 2085        | 2095         | rBV      | 1621831        | 2361039       | 100.00%         | 7.082%        |
| 28        | 15.345      | 2114          | 2118        | 2123         | rBV4     | 82969          | 148245        | 6.28%           | 0.445%        |
| 29        | 15.404      | 2123          | 2128        | 2133         | rVB5     | 45731          | 103210        | 4.37%           | 0.310%        |
| 30        | 15.868      | 2203          | 2207        | 2214         | rBV4     | 78988          | 152882        | 6.48%           | 0.459%        |
| 31        | 16.663      | 2339          | 2342        | 2347         | rBV5     | 36414          | 55267         | 2.34%           | 0.166%        |
| 32        | 16.915      | 2379          | 2385        | 2390         | rBV      | 980503         | 1394247       | 59.05%          | 4.182%        |
| 33        | 17.015      | 2396          | 2402        | 2412         | rVB      | 1556721        | 2290270       | 97.00%          | 6.869%        |
| 34        | 17.586      | 2495          | 2499        | 2502         | rBV6     | 23043          | 33720         | 1.43%           | 0.101%        |

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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F6F28

## 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-BM021418.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 17.821 | 2534 | 2539 | 2544 | rBV  | 425233  | 603624  | 25.57% | 1.811% |
| 36 | 19.115 | 2755 | 2759 | 2766 | rBV3 | 165420  | 281123  | 11.91% | 0.843% |
| 37 | 19.256 | 2778 | 2783 | 2789 | rVB  | 1835001 | 2059821 | 87.24% | 6.178% |
| 38 | 19.327 | 2790 | 2795 | 2802 | rBV  | 1400420 | 1892997 | 80.18% | 5.678% |
| 39 | 20.309 | 2958 | 2962 | 2966 | rVB  | 1065681 | 1195268 | 50.62% | 3.585% |
| 40 | 20.839 | 3048 | 3052 | 3055 | rBV  | 404279  | 448605  | 19.00% | 1.346% |
| 41 | 21.133 | 3099 | 3102 | 3108 | rVB  | 768186  | 966979  | 40.96% | 2.900% |
| 42 | 23.180 | 3445 | 3450 | 3456 | rVB2 | 889104  | 1518842 | 64.33% | 4.556% |
| 43 | 23.309 | 3469 | 3472 | 3481 | rVB2 | 523675  | 921930  | 39.05% | 2.765% |

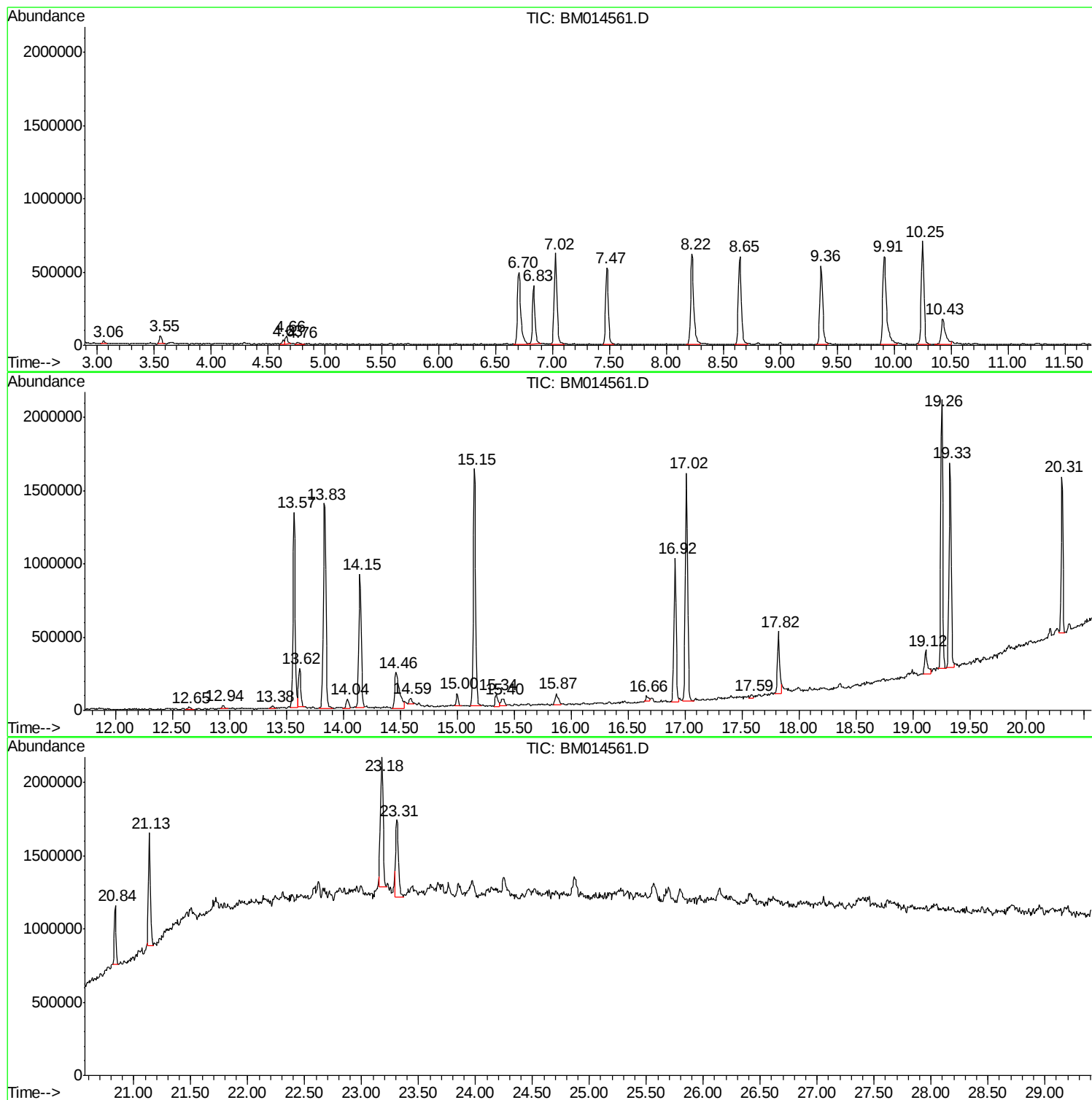
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

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



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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

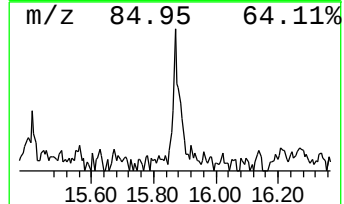
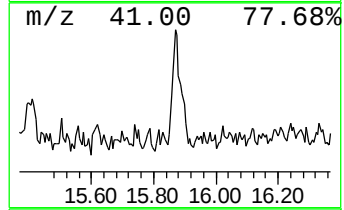
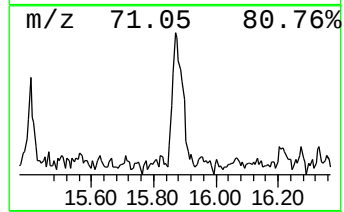
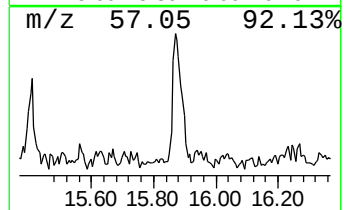
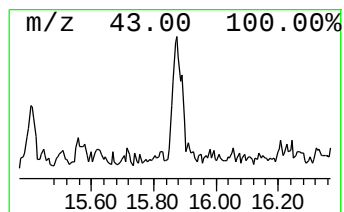
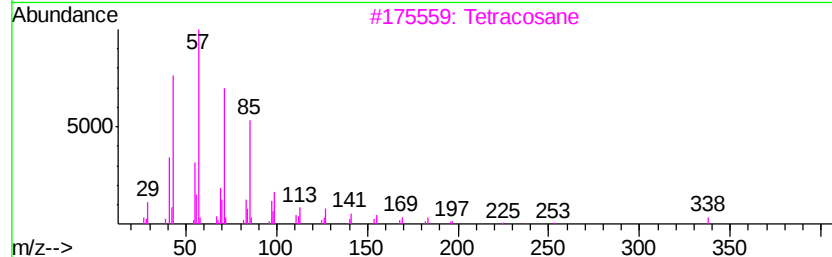
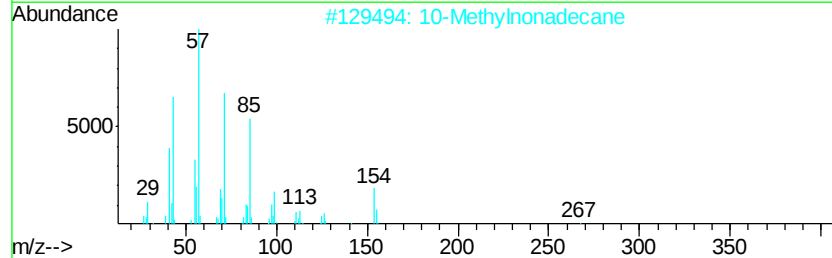
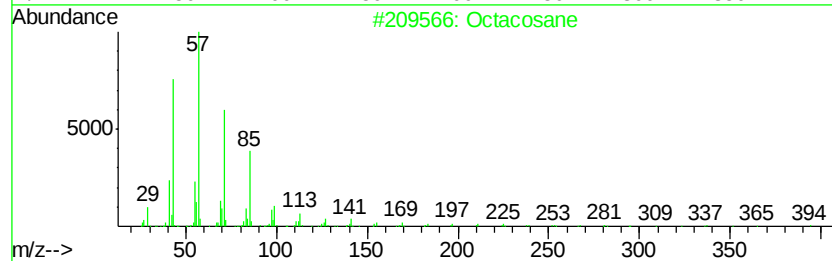
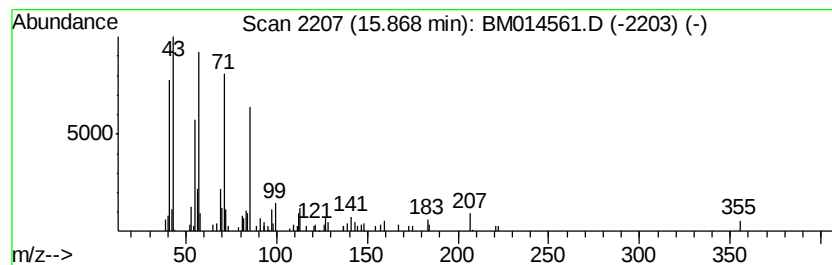
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.87 | 2.19 ng/ul | 152882 | Phenanthrene-d10 | 16.92 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------|-----|---------|-------------|------|
| 1    |    |   | Octacosane          | 394 | C28H58  | 000630-02-4 | 83   |
| 2    |    |   | 10-Methylnonadecane | 282 | C20H42  | 056862-62-5 | 80   |
| 3    |    |   | Tetracosane         | 338 | C24H50  | 000646-31-1 | 80   |
| 4    |    |   | Pentadecane         | 212 | C15H32  | 000629-62-9 | 80   |
| 5    |    |   | Hexacosane          | 366 | C26H54  | 000630-01-3 | 80   |



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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

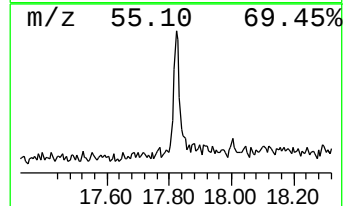
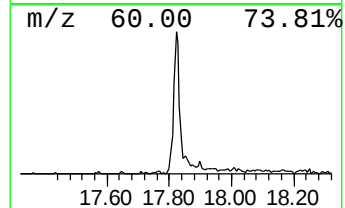
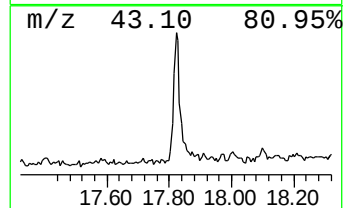
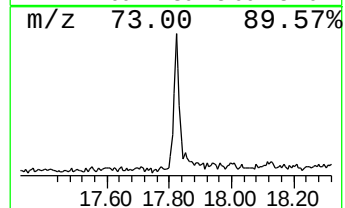
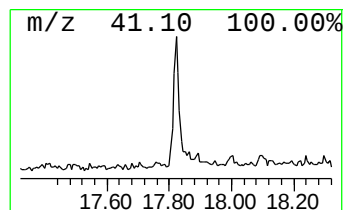
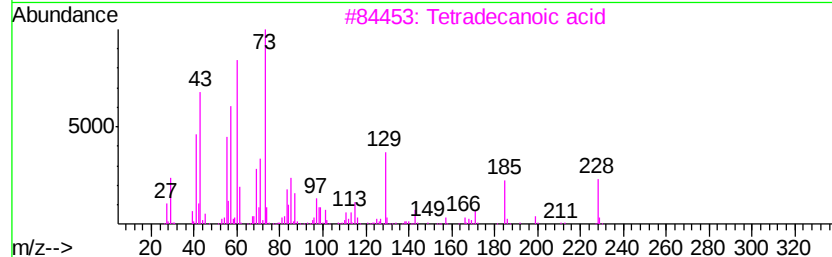
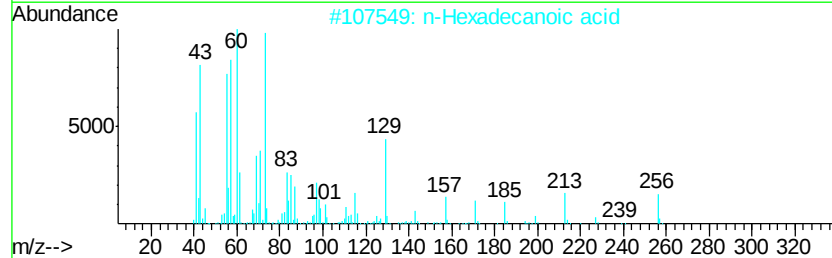
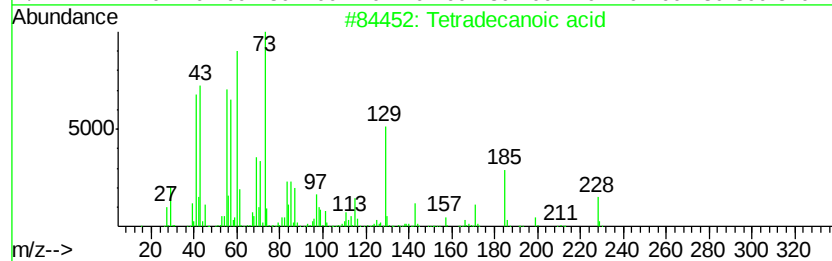
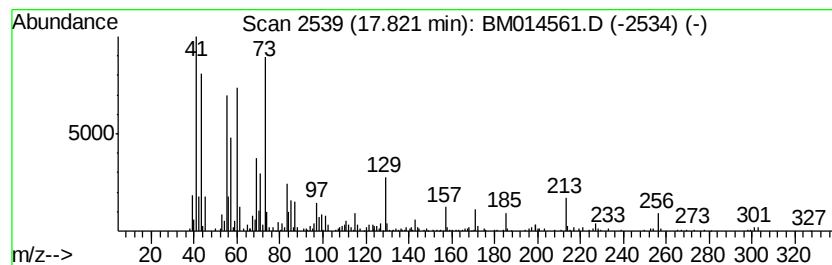
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Tetradecanoic acid Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.82 | 8.66 ng/ul | 603624 | Phenanthrene-d10 | 16.92 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 95   |
| 2    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 92   |
| 3    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 90   |
| 4    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 81   |
| 5    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 78   |



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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

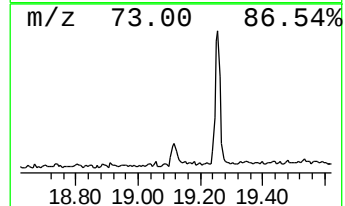
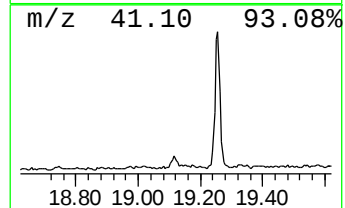
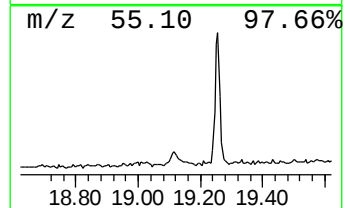
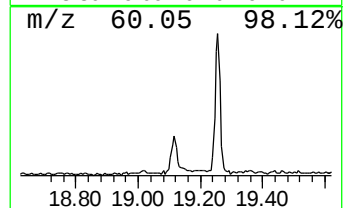
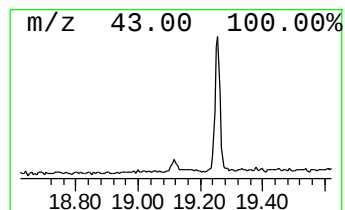
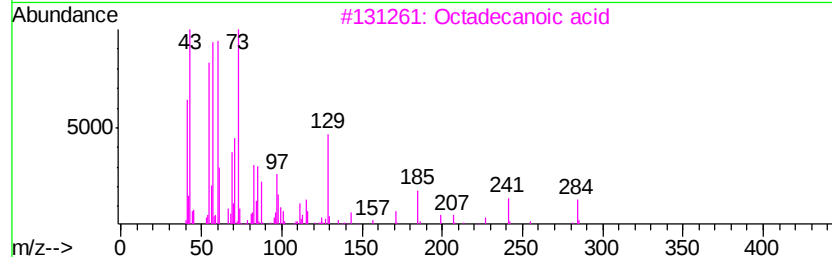
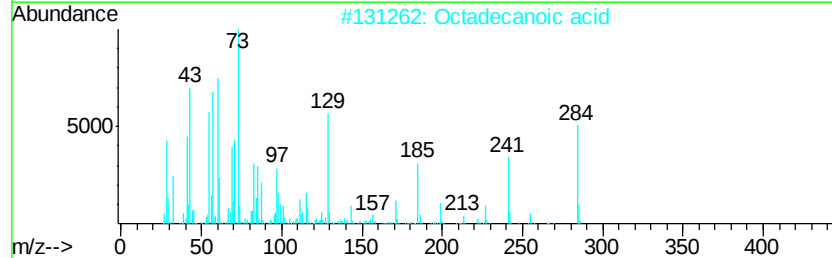
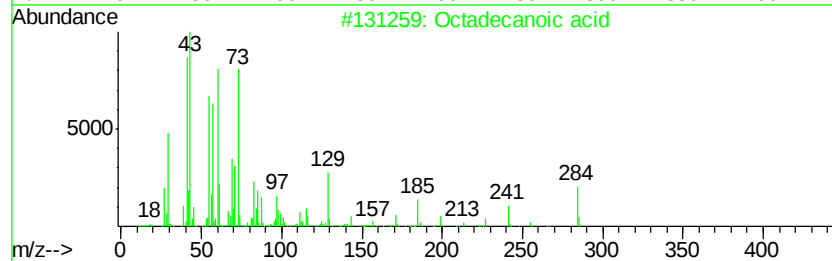
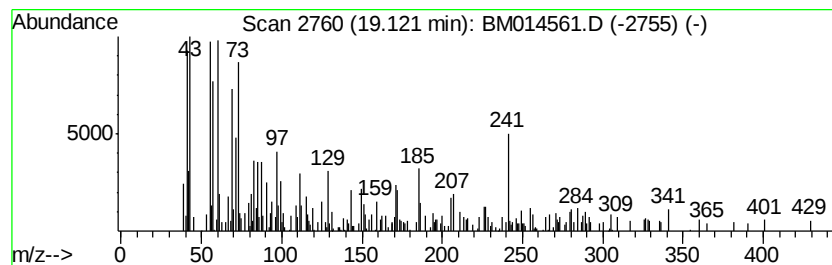
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Octadecanoic acid Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.12 | 5.81 ng/ul | 281123 | Chrysene-d12     | 21.14 |

| Hit# of | 5                   | Tentative ID | MW       | MolForm     | CAS# | Qual |
|---------|---------------------|--------------|----------|-------------|------|------|
| 1       | Octadecanoic acid   | 284          | C18H36O2 | 000057-11-4 | 95   |      |
| 2       | Octadecanoic acid   | 284          | C18H36O2 | 000057-11-4 | 95   |      |
| 3       | Octadecanoic acid   | 284          | C18H36O2 | 000057-11-4 | 91   |      |
| 4       | n-Hexadecanoic acid | 256          | C16H32O2 | 000057-10-3 | 91   |      |
| 5       | Octadecanoic acid   | 284          | C18H36O2 | 000057-11-4 | 90   |      |



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Quant Title : SVOA CALIBRATION

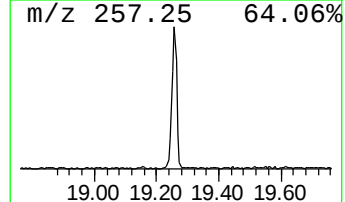
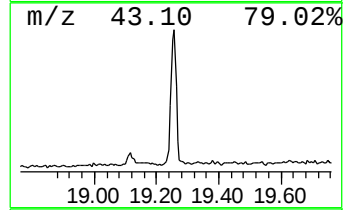
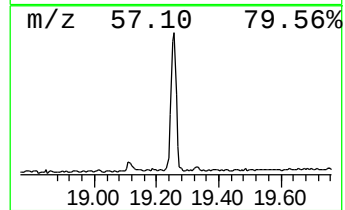
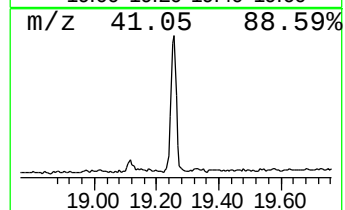
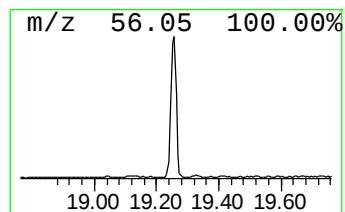
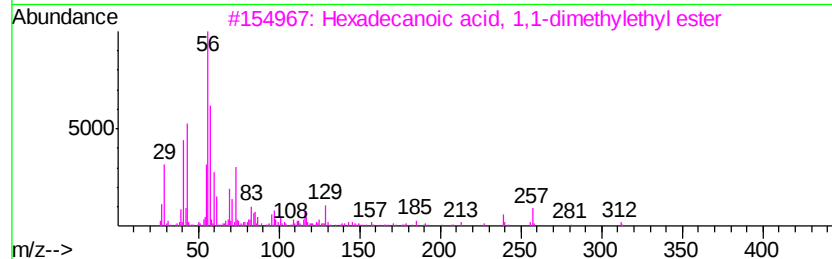
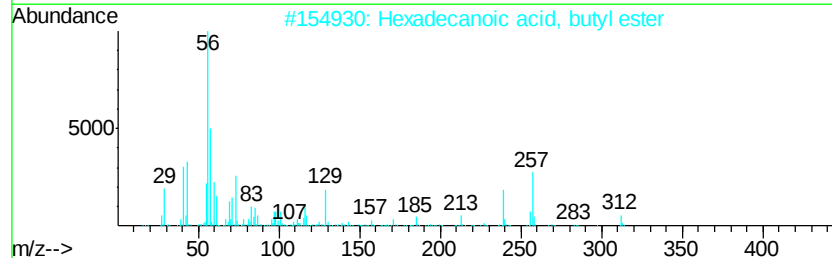
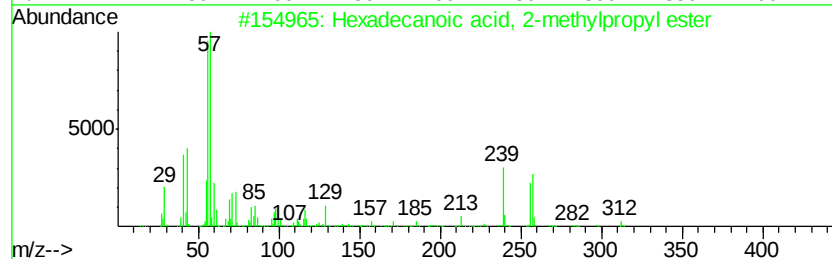
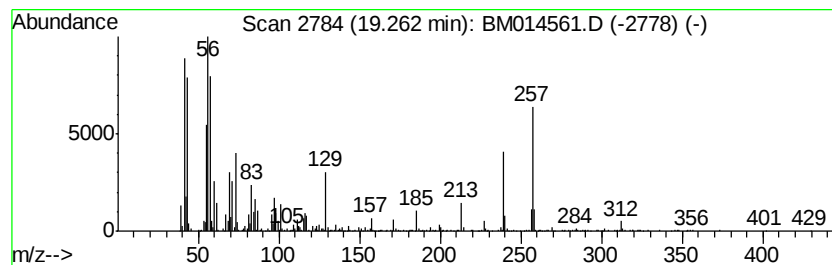
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Hexadecanoic acid, 2-methyl... Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 19.26 | 42.60 ng/ul | 2059820 | Chrysene-d12     | 21.14 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, 2-methylpropyl... | 312 | C20H40O2 | 000110-34-9 | 90   |
| 2    |    | Hexadecanoic acid, butyl ester       | 312 | C20H40O2 | 000111-06-8 | 83   |
| 3    |    | Hexadecanoic acid, 1,1-dimethyle...  | 312 | C20H40O2 | 031158-91-5 | 60   |
| 4    |    | Hexadecanoic acid, butyl ester       | 312 | C20H40O2 | 000111-06-8 | 52   |
| 5    |    | Nipecotic acid                       | 129 | C6H11NO2 | 000498-95-3 | 38   |



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F6F28

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

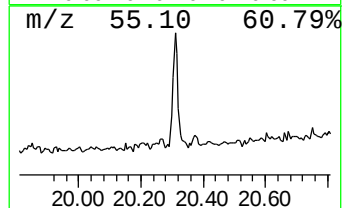
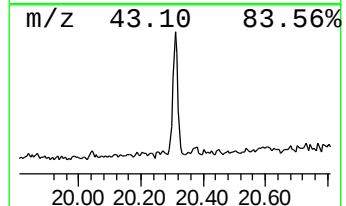
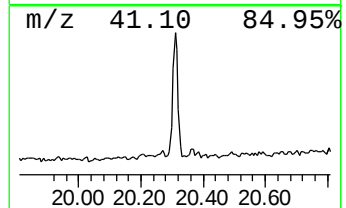
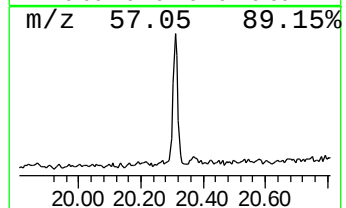
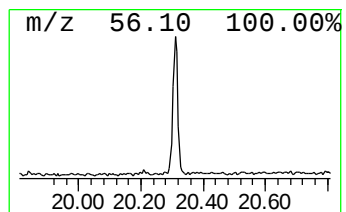
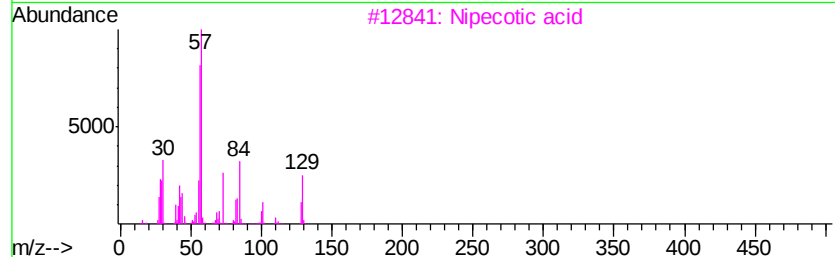
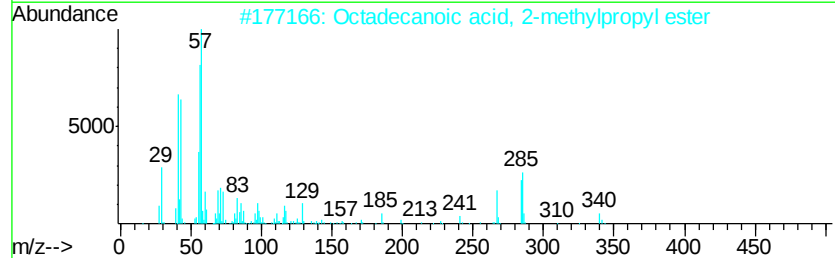
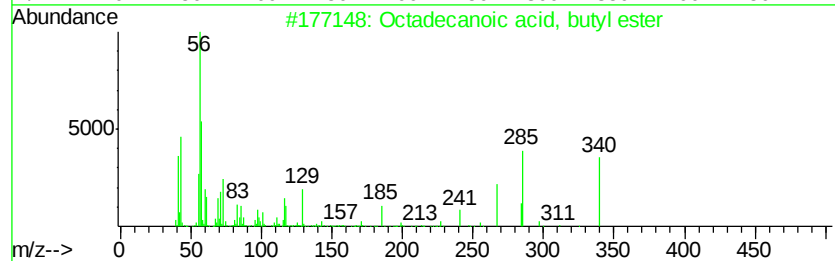
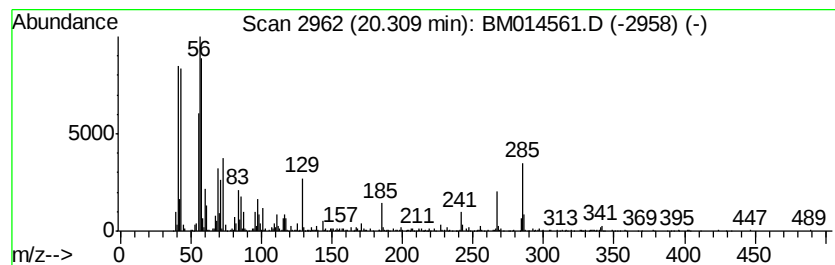
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Octadecanoic acid, butyl ester Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 20.31 | 24.72 ng/ul | 1195270 | Chrysene-d12     | 21.14 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid, butyl ester       | 340 | C22H44O2 | 000123-95-5 | 94   |
| 2    |    | Octadecanoic acid, 2-methylpropyl... | 340 | C22H44O2 | 000646-13-9 | 86   |
| 3    |    | Nipecotic acid                       | 129 | C6H11NO2 | 000498-95-3 | 43   |
| 4    |    | 2,3-Pentanediol, 2,4-dimethyl-       | 132 | C7H16O2  | 066225-53-4 | 35   |
| 5    |    | Urea, N,N'-di-2-propenyl-            | 140 | C7H12N2O | 001801-72-5 | 30   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM031318\  
Data File : BM014561.D  
Acq On : 14 Mar 2018 02:05  
Operator : SJ/JU  
Sample : J1813-07  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F6F28

Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M  
Quant Title : SVOA CALIBRATION

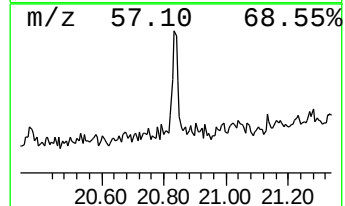
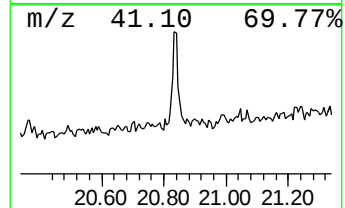
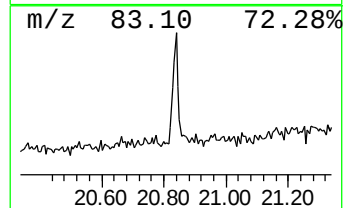
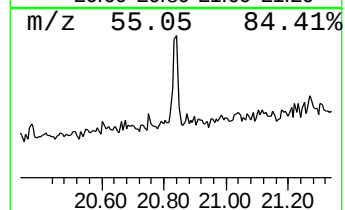
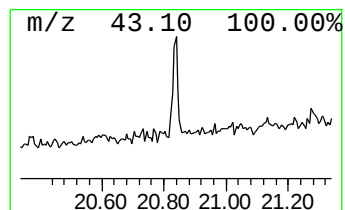
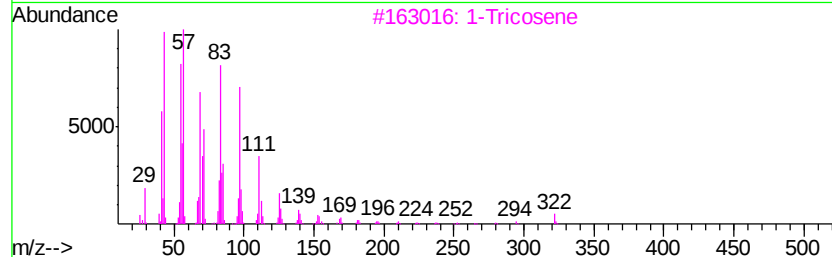
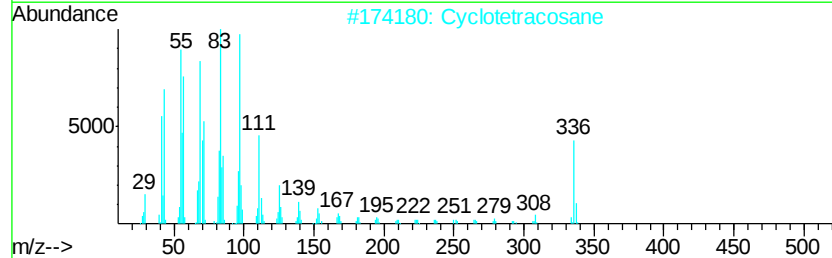
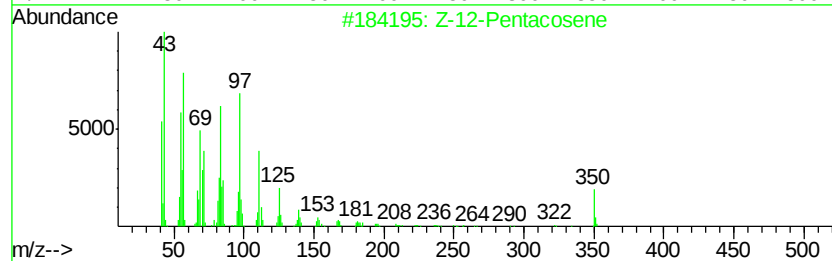
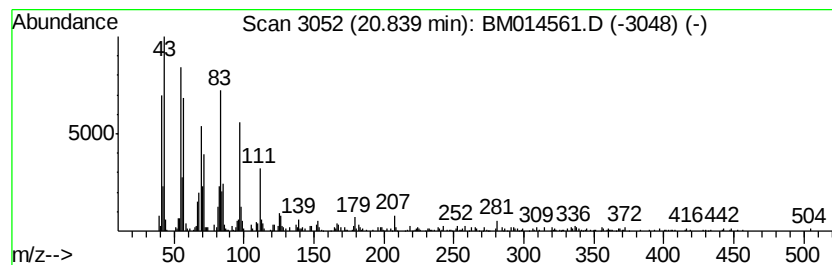
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Cyclic20.84 Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.84 | 9.28 ng/ul | 448605 | Chrysene-d12     | 21.14 |

| Hit# | of | Tentative ID     | MW  | MolForm | CAS#         | Qual |
|------|----|------------------|-----|---------|--------------|------|
| 1    | 5  | Z-12-Pentacosene | 350 | C25H50  | 1000131-09-4 | 94   |
| 2    |    | Cyclotetracosane | 336 | C24H48  | 000297-03-0  | 93   |
| 3    |    | 1-Tricosene      | 322 | C23H46  | 018835-32-0  | 91   |
| 4    |    | Z-14-Nonacosane  | 406 | C29H58  | 1000131-18-9 | 91   |
| 5    |    | 1-Heptacosanol   | 396 | C27H56O | 002004-39-9  | 87   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM031318\  
Data File : BM014561.D  
Acq On : 14 Mar 2018 02:05  
Operator : SJ/JU  
Sample : J1813-07  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F6F28

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM021418.M  
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 |
| (DEL) Alkane: Str... | 15.87 | 2.2     | ng/ul | 152882   | 4                     | 16.92 | 1394250 | 20.0 |
| Tetradecanoic acid   | 17.82 | 8.7     | ng/ul | 603624   | 4                     | 16.92 | 1394250 | 20.0 |
| Octadecanoic acid    | 19.12 | 5.8     | ng/ul | 281123   | 5                     | 21.14 | 966979  | 20.0 |
| Hexadecanoic acid... | 19.26 | 42.6    | ng/ul | 2059820  | 5                     | 21.14 | 966979  | 20.0 |
| Octadecanoic acid... | 20.31 | 24.7    | ng/ul | 1195270  | 5                     | 21.14 | 966979  | 20.0 |
| (DEL) Alkane: Cyc... | 20.84 | 9.3     | ng/ul | 448605   | 5                     | 21.14 | 966979  | 20.0 |