

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
 Data File : BM014410.D  
 Acq On : 28 Feb 2018 20:07  
 Operator : SJ/JU  
 Sample : J1678-15  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BE5W3

## 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         | 4.669       | 283           | 286         | 294          | rBV6     | 23376          | 41678         | 1.39%           | 0.125%        |
| 2         | 6.716       | 629           | 634         | 647          | rBV      | 268652         | 559604        | 18.70%          | 1.678%        |
| 3         | 6.869       | 654           | 660         | 673          | rBV      | 221945         | 387018        | 12.93%          | 1.161%        |
| 4         | 7.057       | 685           | 692         | 703          | rBV      | 332694         | 597583        | 19.97%          | 1.792%        |
| 5         | 7.516       | 764           | 770         | 781          | rBV      | 278638         | 472568        | 15.79%          | 1.417%        |
| 6         | 8.245       | 887           | 894         | 908          | rBV      | 376018         | 737173        | 24.63%          | 2.211%        |
| 7         | 8.675       | 959           | 967         | 982          | rBV      | 350062         | 664226        | 22.19%          | 1.992%        |
| 8         | 9.392       | 1082          | 1089        | 1100         | rBV      | 326924         | 592521        | 19.80%          | 1.777%        |
| 9         | 9.933       | 1174          | 1181        | 1196         | rBV2     | 396599         | 849077        | 28.37%          | 2.546%        |
| 10        | 10.286      | 1233          | 1241        | 1249         | rBV      | 459894         | 754434        | 25.21%          | 2.262%        |
| 11        | 10.451      | 1260          | 1269        | 1282         | rBV      | 321743         | 757072        | 25.29%          | 2.270%        |
| 12        | 12.986      | 1695          | 1700        | 1705         | rBV2     | 24075          | 30084         | 1.01%           | 0.090%        |
| 13        | 13.598      | 1795          | 1804        | 1809         | rBV      | 1028883        | 1482398       | 49.53%          | 4.445%        |
| 14        | 13.645      | 1809          | 1812        | 1821         | rVB      | 177536         | 267797        | 8.95%           | 0.803%        |
| 15        | 13.863      | 1843          | 1849        | 1861         | rBV      | 1100623        | 1699872       | 56.80%          | 5.097%        |
| 16        | 14.074      | 1880          | 1885        | 1893         | rVB2     | 65474          | 93682         | 3.13%           | 0.281%        |
| 17        | 14.174      | 1893          | 1902        | 1911         | rBV2     | 725683         | 1125482       | 37.60%          | 3.375%        |
| 18        | 14.451      | 1942          | 1949        | 1971         | rBV2     | 240132         | 744300        | 24.87%          | 2.232%        |
| 19        | 14.621      | 1975          | 1978        | 1983         | rBV6     | 23798          | 41647         | 1.39%           | 0.125%        |
| 20        | 15.033      | 2041          | 2048        | 2053         | rBV3     | 73712          | 109346        | 3.65%           | 0.328%        |
| 21        | 15.180      | 2067          | 2073        | 2081         | rBV      | 1425872        | 2059669       | 68.82%          | 6.176%        |
| 22        | 15.345      | 2094          | 2101        | 2110         | rBV      | 423184         | 699336        | 23.37%          | 2.097%        |
| 23        | 15.427      | 2110          | 2115        | 2122         | rVB9     | 30089          | 68943         | 2.30%           | 0.207%        |
| 24        | 15.904      | 2191          | 2196        | 2203         | rBV      | 62983          | 97661         | 3.26%           | 0.293%        |
| 25        | 16.356      | 2268          | 2273        | 2277         | rBV5     | 24743          | 39801         | 1.33%           | 0.119%        |
| 26        | 16.698      | 2325          | 2331        | 2336         | rBV6     | 21090          | 34325         | 1.15%           | 0.103%        |
| 27        | 16.939      | 2366          | 2372        | 2377         | rBV2     | 1018855        | 1449902       | 48.44%          | 4.348%        |
| 28        | 16.980      | 2377          | 2379        | 2382         | rVV3     | 38311          | 41577         | 1.39%           | 0.125%        |
| 29        | 17.039      | 2382          | 2389        | 2400         | rVB      | 1586401        | 2349588       | 78.50%          | 7.046%        |
| 30        | 17.339      | 2435          | 2440        | 2444         | rBV6     | 25486          | 36618         | 1.22%           | 0.110%        |
| 31        | 17.845      | 2519          | 2526        | 2535         | rBV2     | 397467         | 628544        | 21.00%          | 1.885%        |
| 32        | 18.715      | 2669          | 2674        | 2678         | rBV8     | 22719          | 45822         | 1.53%           | 0.137%        |
| 33        | 19.009      | 2715          | 2724        | 2732         | rBV2     | 109968         | 223478        | 7.47%           | 0.670%        |
| 34        | 19.139      | 2740          | 2746        | 2753         | rBV5     | 110092         | 204952        | 6.85%           | 0.615%        |

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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W3

## Integration Parameters: LSCINT.P

Integrator: RTE  
Smoothing : OFF Filtering: 5  
Sampling : 1 Min Area: 1 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

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

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

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 19.345 | 2775 | 2781 | 2789 | rBV2 | 2086609 | 2985722 | 99.76%  | 8.953% |
| 36 | 19.415 | 2789 | 2793 | 2798 | rVB3 | 41791   | 70311   | 2.35%   | 0.211% |
| 37 | 19.880 | 2868 | 2872 | 2878 | rVB8 | 44973   | 75675   | 2.53%   | 0.227% |
| 38 | 20.868 | 3036 | 3040 | 3048 | rBV  | 838209  | 1011670 | 33.80%  | 3.034% |
| 39 | 21.068 | 3071 | 3074 | 3078 | rVB2 | 100298  | 99197   | 3.31%   | 0.297% |
| 40 | 21.150 | 3082 | 3088 | 3093 | rBV  | 1465640 | 1990683 | 66.51%  | 5.970% |
| 41 | 21.750 | 3187 | 3190 | 3196 | rVB5 | 209745  | 267150  | 8.93%   | 0.801% |
| 42 | 23.191 | 3429 | 3435 | 3443 | rVB2 | 1746006 | 2992974 | 100.00% | 8.975% |
| 43 | 23.327 | 3452 | 3458 | 3464 | rVB  | 1022105 | 1772482 | 59.22%  | 5.315% |
| 44 | 23.897 | 3553 | 3555 | 3564 | rVB5 | 208892  | 359889  | 12.02%  | 1.079% |
| 45 | 28.826 | 4389 | 4393 | 4405 | rVB7 | 541710  | 1733984 | 57.94%  | 5.200% |

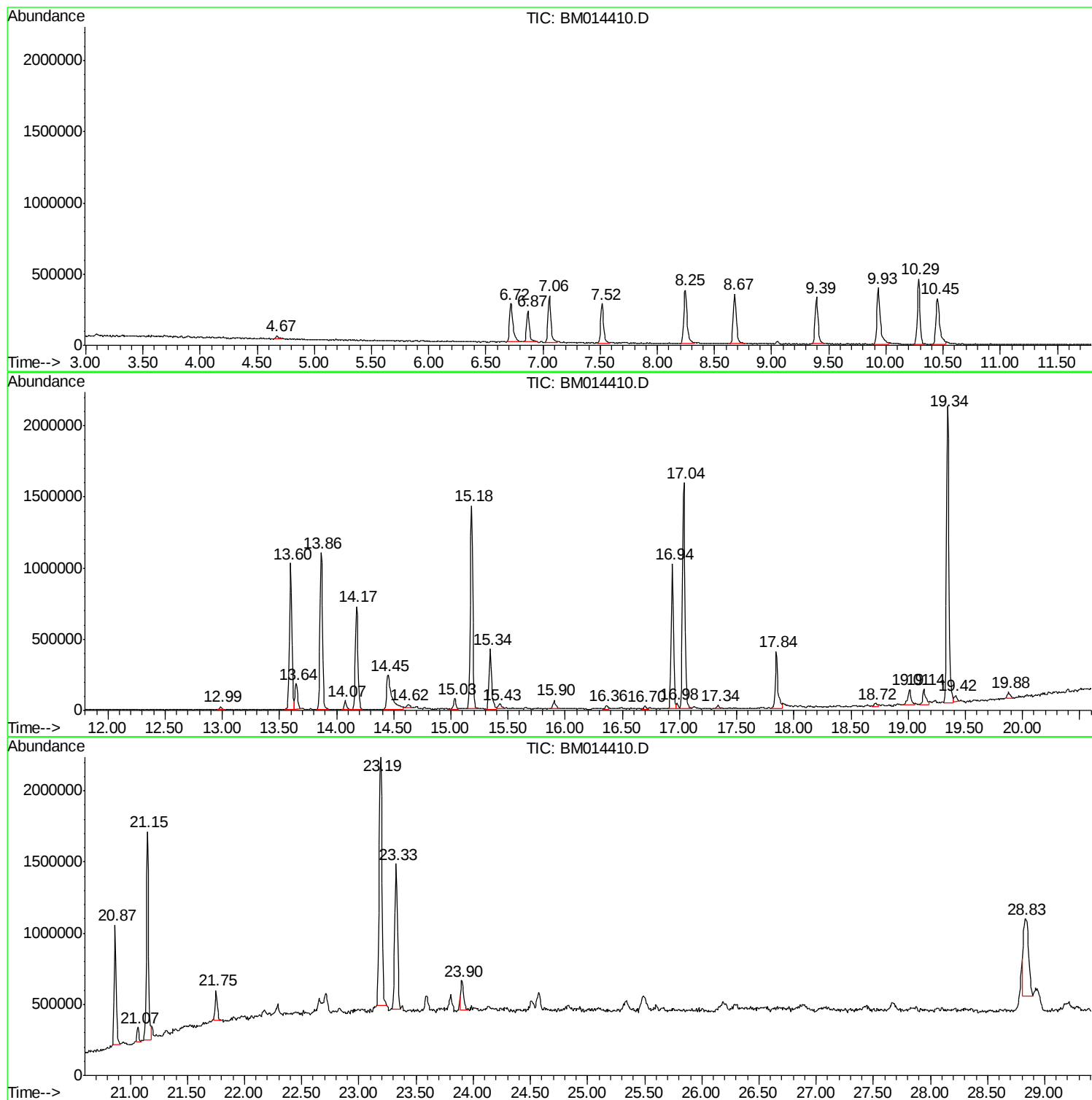
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Instrument :  
BNA\_M  
ClientSampleId :  
BE5W3

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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Data File : BM014410.D  
Acq On : 28 Feb 2018 20:07  
Operator : SJ/JU  
Sample : J1678-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

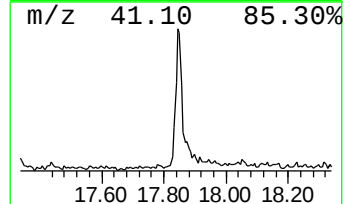
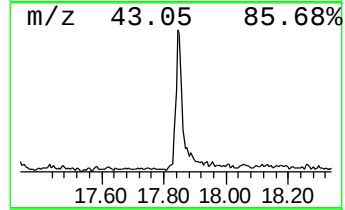
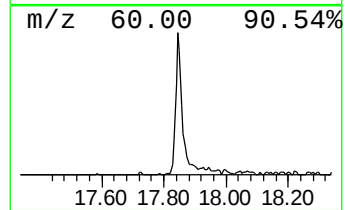
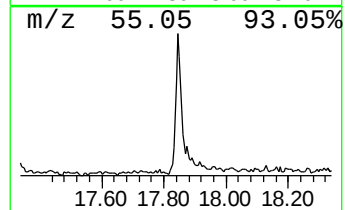
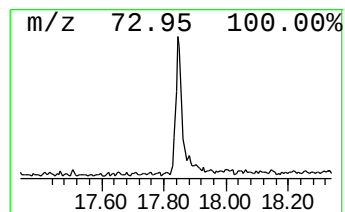
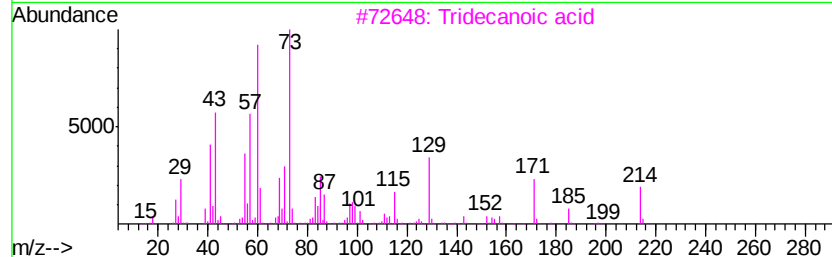
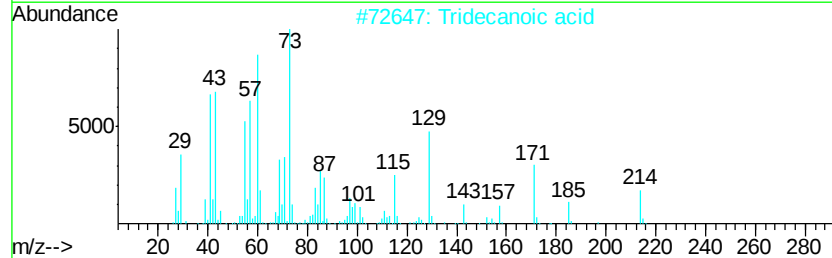
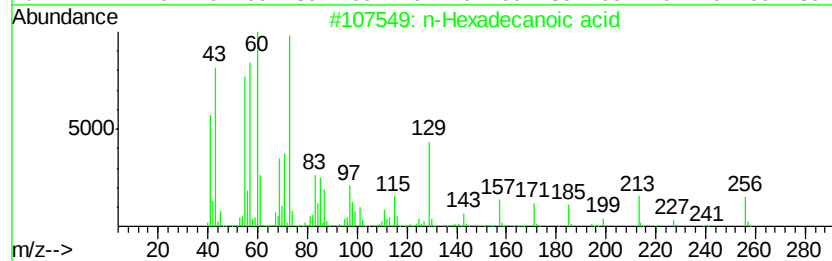
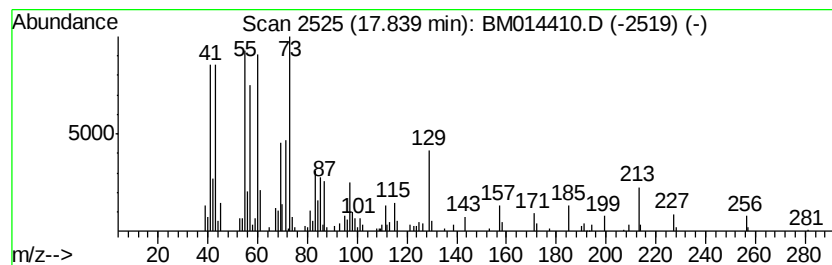
Instrument :  
BNA\_M  
ClientSampleId :  
BE5W3

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 1 n-Hexadecanoic acid Concentration Rank 3

| R.T.    | EstConc    | Area                | Relative to ISTD |          | R.T.        |      |
|---------|------------|---------------------|------------------|----------|-------------|------|
| 17.84   | 8.67 ng/ul | 628544              | Phenanthrene-d10 |          | 16.94       |      |
| Hit# of | 5          | Tentative ID        | MW               | MolForm  | CAS#        | Qual |
| 1       |            | n-Hexadecanoic acid | 256              | C16H32O2 | 000057-10-3 | 97   |
| 2       |            | Tridecanoic acid    | 214              | C13H26O2 | 000638-53-9 | 95   |
| 3       |            | Tridecanoic acid    | 214              | C13H26O2 | 000638-53-9 | 91   |
| 4       |            | Tridecanoic acid    | 214              | C13H26O2 | 000638-53-9 | 90   |
| 5       |            | Pentadecanoic acid  | 242              | C15H30O2 | 001002-84-2 | 87   |



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

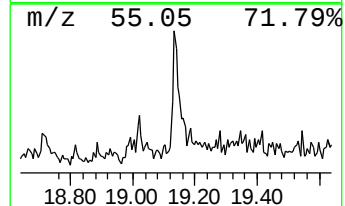
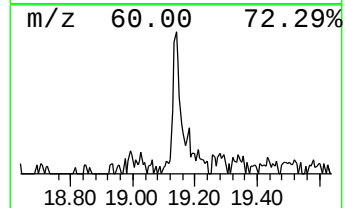
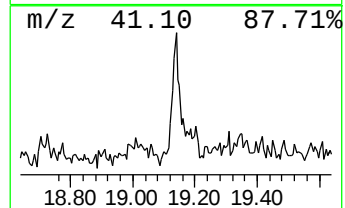
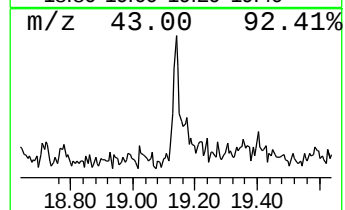
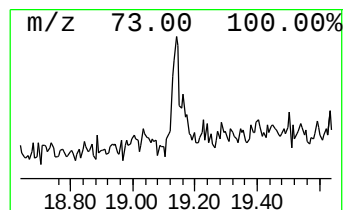
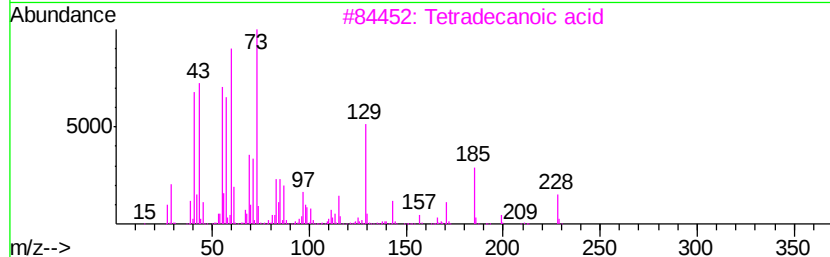
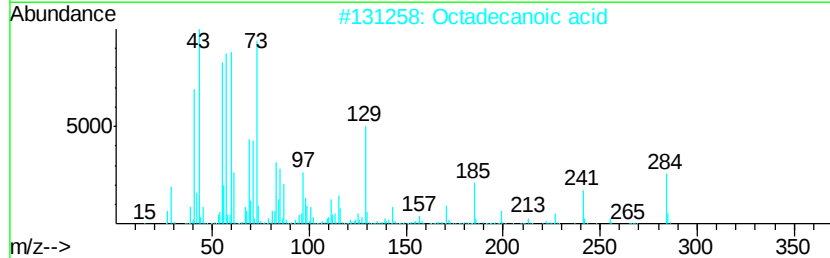
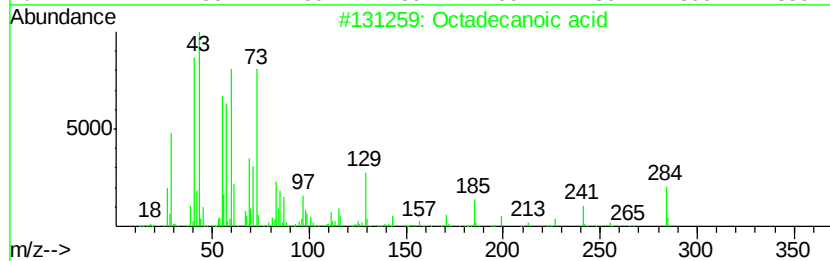
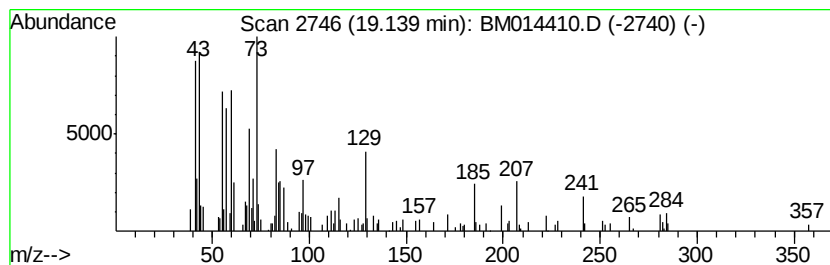
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Octadecanoic acid Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.14 | 2.06 ng/ul | 204952 | Chrysene-d12     | 21.15 |

| Hit# | of | 5 | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------|-----|----------|-------------|------|
| 1    |    |   | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 92   |
| 2    |    |   | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 64   |
| 3    |    |   | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 64   |
| 4    |    |   | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 60   |
| 5    |    |   | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 55   |



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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W3

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

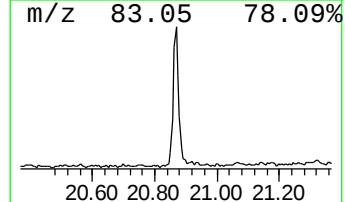
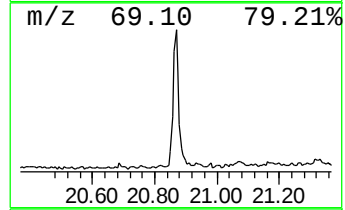
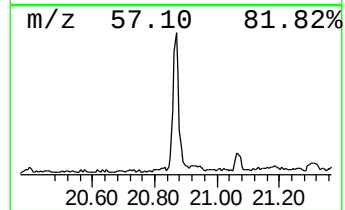
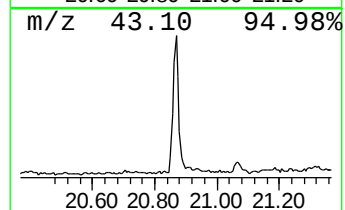
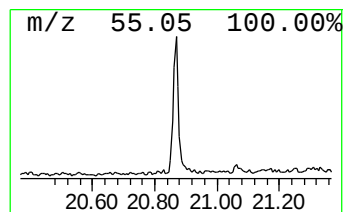
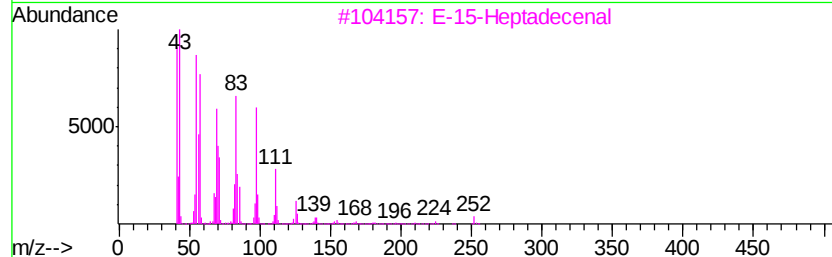
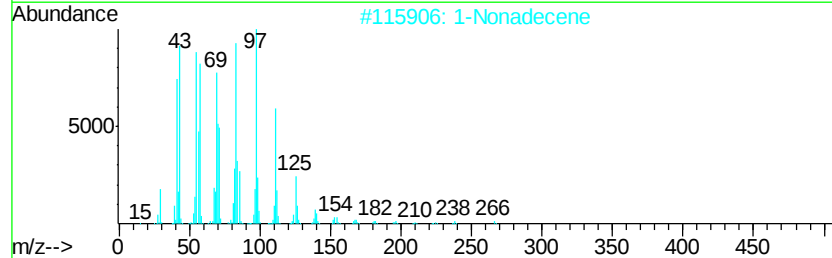
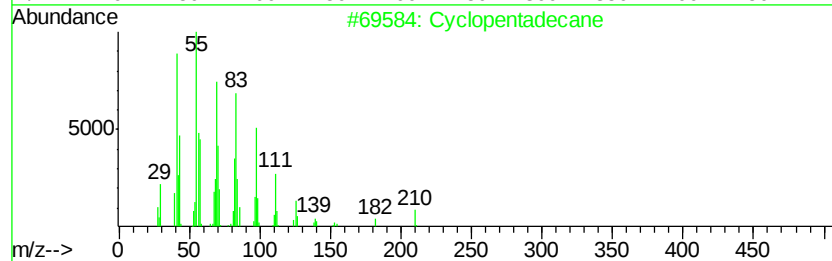
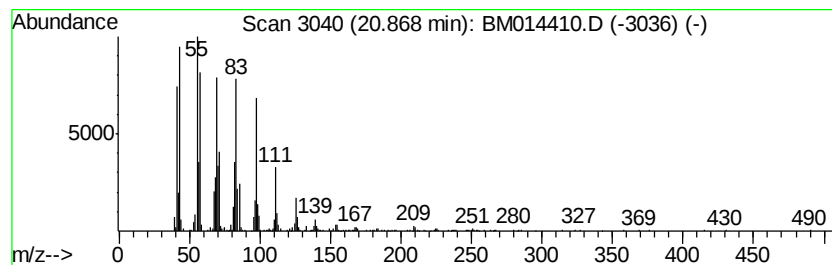
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 (DEL) Alkane: Cyclic20.87 Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 20.87 | 10.16 ng/ul | 1011670 | Chrysene-d12     | 21.15 |

| Hit# | of | Tentative ID                      | MW  | MolForm    | CAS#         | Qual |
|------|----|-----------------------------------|-----|------------|--------------|------|
| 1    | 5  | Cyclopentadecane                  | 210 | C15H30     | 000295-48-7  | 97   |
| 2    |    | 1-Nonadecene                      | 266 | C19H38     | 018435-45-5  | 96   |
| 3    |    | E-15-Heptadecenal                 | 252 | C17H32O    | 1000130-97-9 | 96   |
| 4    |    | Bromoacetic acid, hexadecyl ester | 362 | C18H35BrO2 | 005454-48-8  | 94   |
| 5    |    | 1-Heneicosanol                    | 312 | C21H44O    | 015594-90-8  | 94   |



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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W3

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

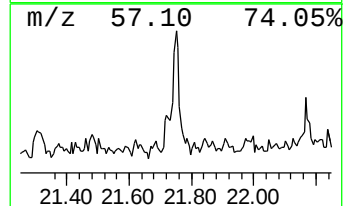
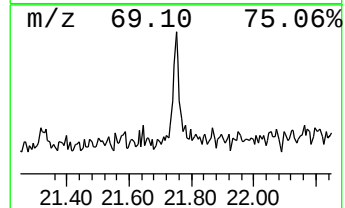
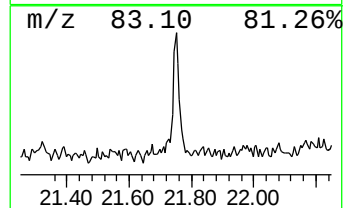
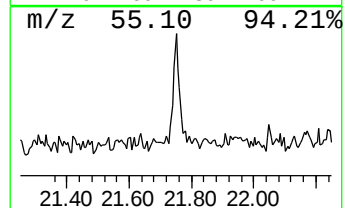
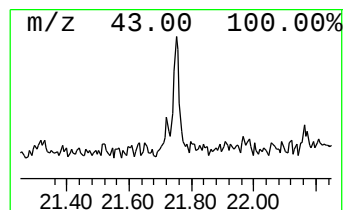
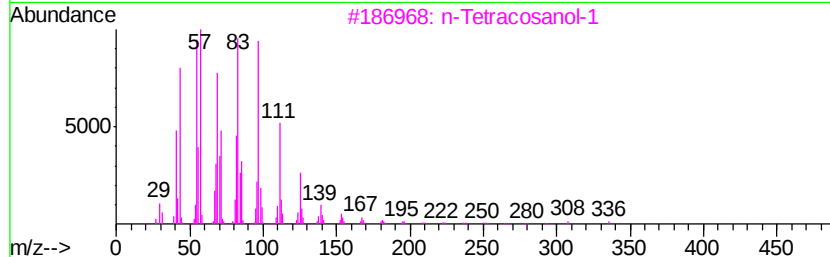
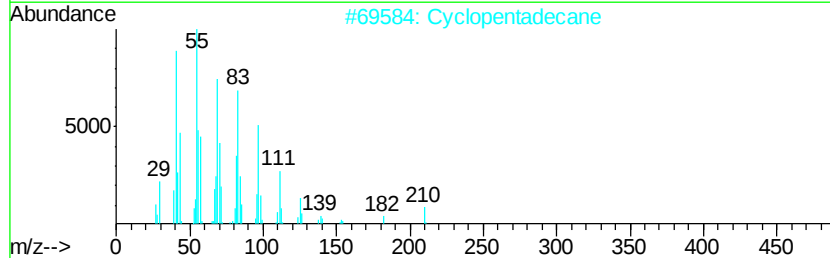
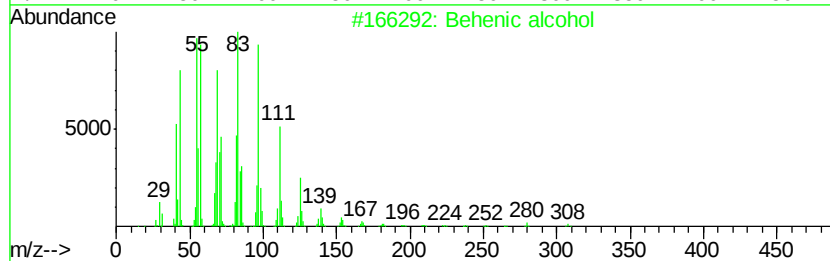
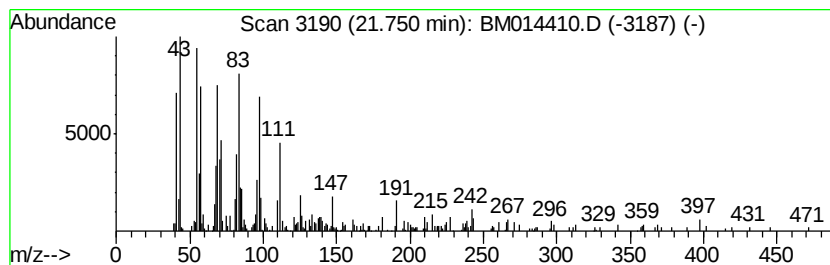
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Behenic alcohol Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.75 | 2.68 ng/ul | 267150 | Chrysene-d12     | 21.15 |

| Hit# | of | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|------------------|-----|---------|-------------|------|
| 1    | 5  | Behenic alcohol  | 326 | C22H46O | 000661-19-8 | 95   |
| 2    |    | Cyclopentadecane | 210 | C15H30  | 000295-48-7 | 93   |
| 3    |    | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 91   |
| 4    |    | n-Nonadecanol-1  | 284 | C19H40O | 001454-84-8 | 90   |
| 5    |    | 1-Heneicosanol   | 312 | C21H44O | 015594-90-8 | 90   |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\  
Data File : BM014410.D  
Acq On : 28 Feb 2018 20:07  
Operator : SJ/JU  
Sample : J1678-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W3

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

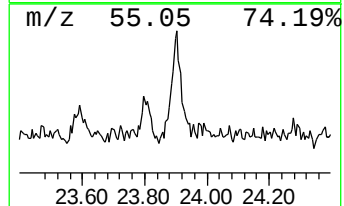
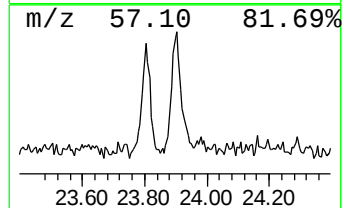
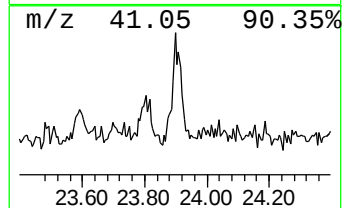
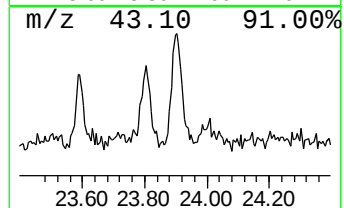
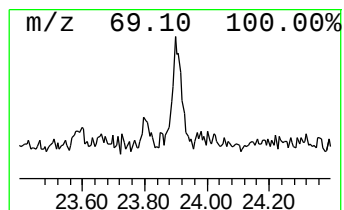
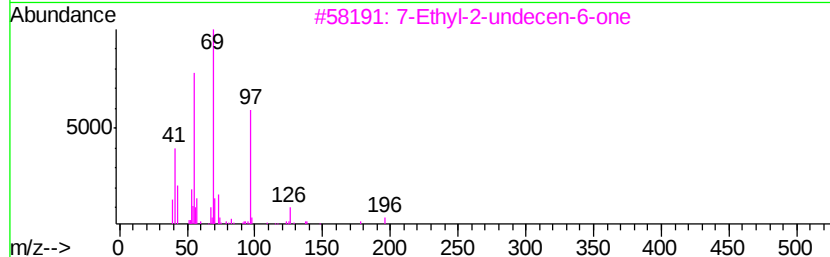
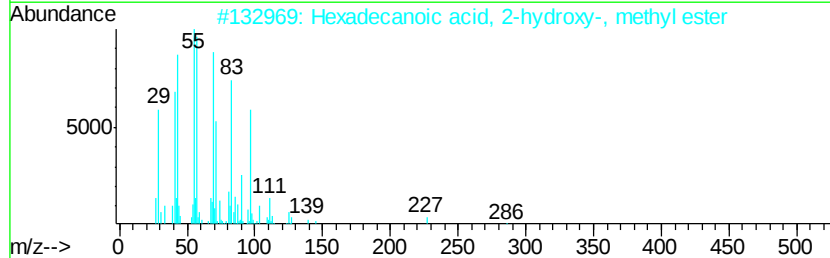
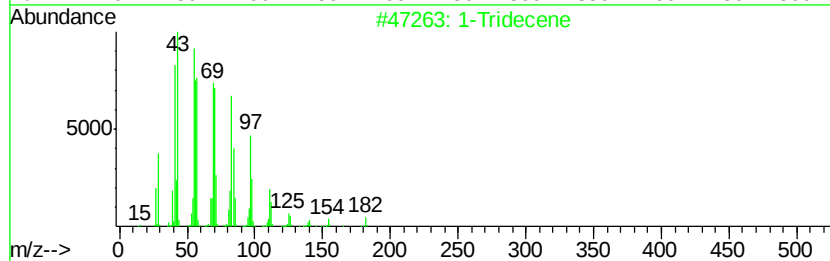
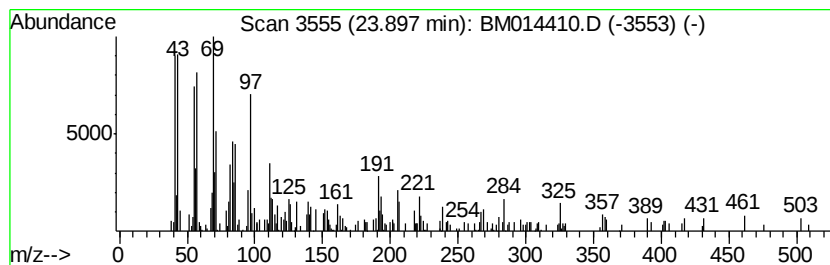
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 (DEL) Alkane: Cyclic23.90 Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.90 | 4.06 ng/ul | 359889 | Perylene-d12     | 23.33 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|---------|---|-------------------------------------|-----|----------|--------------|------|
| 1       |   | 1-Tridecene                         | 182 | C13H26   | 002437-56-1  | 58   |
| 2       |   | Hexadecanoic acid, 2-hydroxy-, m... | 286 | C17H34O3 | 016742-51-1  | 52   |
| 3       |   | 7-Ethyl-2-undecen-6-one             | 196 | C13H24O  | 1000374-14-9 | 49   |
| 4       |   | Cyclohexadecane, 1,2-diethyl-       | 280 | C20H40   | 1000155-85-3 | 47   |
| 5       |   | 1-Eicosene                          | 280 | C20H40   | 003452-07-1  | 46   |



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Data File : BM014410.D  
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Operator : SJ/JU  
Sample : J1678-15  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

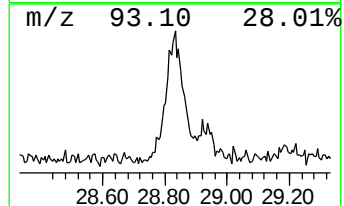
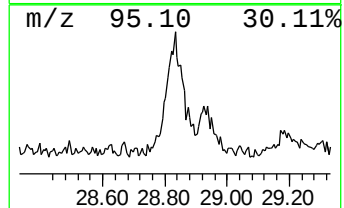
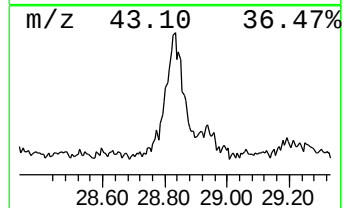
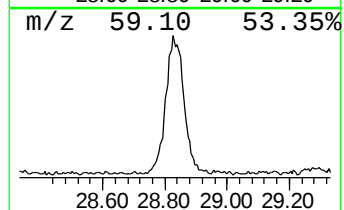
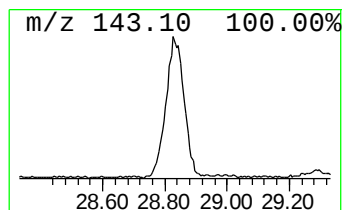
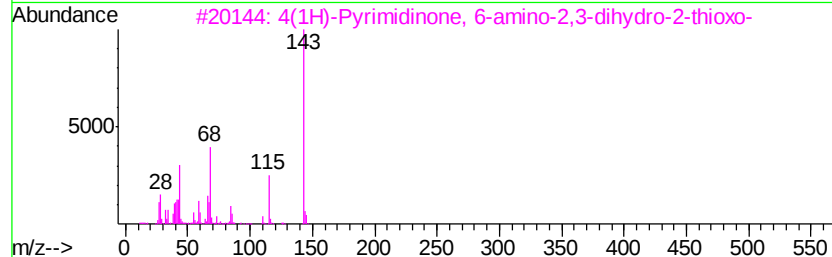
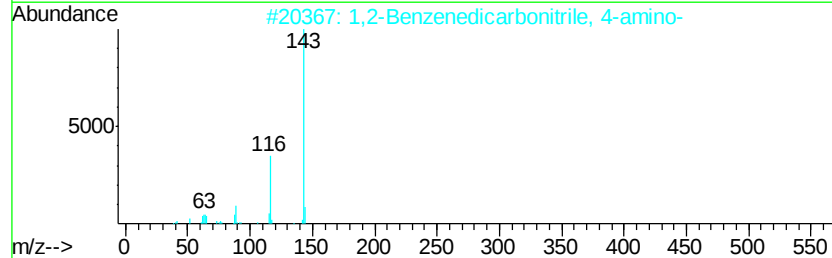
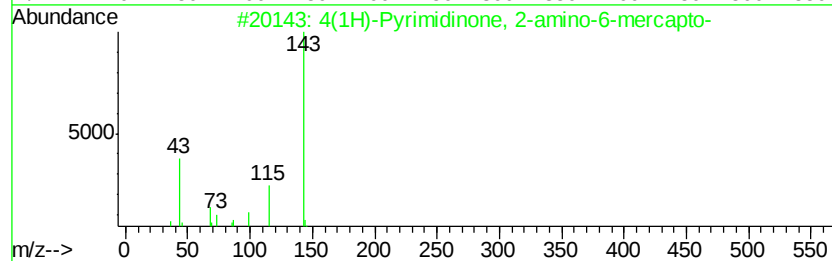
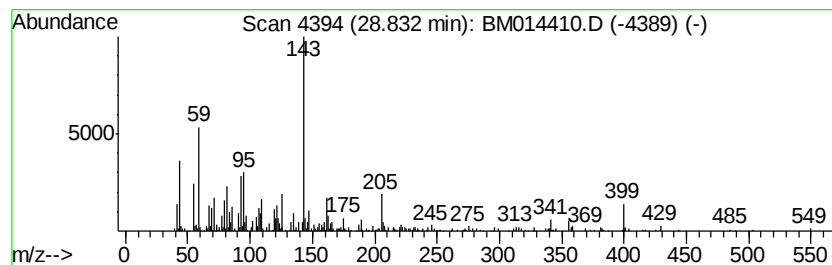
Instrument :  
BNA\_M  
ClientSampleId :  
BE5W3

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 unknown-01 Concentration Rank 1

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 28.83   | 19.57 ng/ul                         | 1733980      | Perylene-d12     | 23.33        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | 4(1H)-Pvrimidinone, 2-amino-6-me... | 143          | C4H5N3OS         | 006973-81-5  | 43   |      |
| 2       | 1,2-Benzenedicarbonitrile, 4-amino- | 143          | C8H5N3           | 056765-79-8  | 43   |      |
| 3       | 4(1H)-Pvrimidinone, 6-amino-2,3-... | 143          | C4H5N3OS         | 001004-40-6  | 40   |      |
| 4       | Adipic acid, dodecyl methyl ester   | 328          | C19H36O4         | 1000324-52-9 | 37   |      |
| 5       | 2-Chloro-6-fluorobenzyl alcohol,... | 230          | C12H16ClFO       | 1000378-14-9 | 37   |      |



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Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE5W3

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 |
| n-Hexadecanoic acid  | 17.84 | 8.7     | ng/ul | 628544   | 4                     | 16.94 | 1449900 | 20.0 |
| Octadecanoic acid    | 19.14 | 2.1     | ng/ul | 204952   | 5                     | 21.15 | 1990680 | 20.0 |
| (DEL) Alkane: Cyc... | 20.87 | 10.2    | ng/ul | 1011670  | 5                     | 21.15 | 1990680 | 20.0 |
| Behenic alcohol      | 21.75 | 2.7     | ng/ul | 267150   | 5                     | 21.15 | 1990680 | 20.0 |
| (DEL) Alkane: Cyc... | 23.90 | 4.1     | ng/ul | 359889   | 6                     | 23.33 | 1772480 | 20.0 |
| unknown-01           | 28.83 | 19.6    | ng/ul | 1733980  | 6                     | 23.33 | 1772480 | 20.0 |