

Data Path : U:\HPCHEM1\BNA M\DATA\BM012818\  
 Data File : BM013942.D  
 Acq On : 29 Jan 2018 03:01  
 Operator : SJ/JU  
 Sample : J1244-20  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F6B61

## 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-BM011018.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         | 3.146       | 23            | 27          | 32           | rBV3     | 25936          | 35623         | 1.46%           | 0.101%        |
| 2         | 3.752       | 126           | 130         | 140          | rVB      | 43077          | 66978         | 2.74%           | 0.190%        |
| 3         | 3.952       | 160           | 164         | 169          | rVB5     | 16267          | 28353         | 1.16%           | 0.081%        |
| 4         | 4.728       | 291           | 296         | 306          | rVB      | 160058         | 239422        | 9.81%           | 0.681%        |
| 5         | 6.763       | 636           | 642         | 661          | rVB2     | 516515         | 1026691       | 42.05%          | 2.920%        |
| 6         | 6.922       | 661           | 669         | 677          | rBV      | 411726         | 668543        | 27.38%          | 1.901%        |
| 7         | 7.116       | 696           | 702         | 711          | rBV      | 592351         | 951746        | 38.98%          | 2.707%        |
| 8         | 7.575       | 772           | 780         | 788          | rBV      | 779457         | 1229376       | 50.35%          | 3.496%        |
| 9         | 7.645       | 788           | 792         | 798          | rVB6     | 15103          | 27797         | 1.14%           | 0.079%        |
| 10        | 8.292       | 895           | 902         | 917          | rBV2     | 595127         | 1043655       | 42.75%          | 2.968%        |
| 11        | 8.734       | 971           | 977         | 989          | rBV      | 553477         | 956073        | 39.16%          | 2.719%        |
| 12        | 9.128       | 1039          | 1044        | 1050         | rVB2     | 25760          | 41274         | 1.69%           | 0.117%        |
| 13        | 9.451       | 1091          | 1099        | 1110         | rBV      | 457976         | 829263        | 33.97%          | 2.358%        |
| 14        | 9.986       | 1180          | 1190        | 1208         | rBV      | 635762         | 1216499       | 49.83%          | 3.459%        |
| 15        | 10.351      | 1245          | 1252        | 1260         | rBV      | 919539         | 1545344       | 63.30%          | 4.395%        |
| 16        | 10.504      | 1271          | 1278        | 1296         | rBV      | 441767         | 932551        | 38.20%          | 2.652%        |
| 17        | 12.992      | 1696          | 1701        | 1706         | rVB7     | 16536          | 35396         | 1.45%           | 0.101%        |
| 18        | 13.651      | 1805          | 1813        | 1817         | rBV      | 1154299        | 1686234       | 69.07%          | 4.795%        |
| 19        | 13.698      | 1817          | 1821        | 1827         | rVV      | 235300         | 364557        | 14.93%          | 1.037%        |
| 20        | 13.739      | 1827          | 1828        | 1836         | rVB6     | 24840          | 30396         | 1.24%           | 0.086%        |
| 21        | 13.921      | 1846          | 1859        | 1870         | rBV      | 1334148        | 2089082       | 85.57%          | 5.941%        |
| 22        | 14.045      | 1876          | 1880        | 1883         | rBV6     | 21862          | 29863         | 1.22%           | 0.085%        |
| 23        | 14.121      | 1889          | 1893        | 1900         | rVB8     | 26603          | 54737         | 2.24%           | 0.156%        |
| 24        | 14.227      | 1906          | 1911        | 1919         | rVB2     | 1168931        | 1819964       | 74.54%          | 5.176%        |
| 25        | 14.474      | 1947          | 1953        | 1965         | rBV2     | 220548         | 537966        | 22.03%          | 1.530%        |
| 26        | 14.669      | 1980          | 1986        | 1989         | rBV8     | 14883          | 27542         | 1.13%           | 0.078%        |
| 27        | 15.068      | 2049          | 2054        | 2061         | rVB      | 55036          | 82856         | 3.39%           | 0.236%        |
| 28        | 15.227      | 2075          | 2081        | 2089         | rBV      | 1566968        | 2322852       | 95.14%          | 6.606%        |
| 29        | 15.374      | 2100          | 2106        | 2115         | rBV      | 358644         | 579531        | 23.74%          | 1.648%        |
| 30        | 15.480      | 2118          | 2124        | 2127         | rVB7     | 22306          | 36499         | 1.49%           | 0.104%        |
| 31        | 15.604      | 2140          | 2145        | 2150         | rBV      | 48550          | 69394         | 2.84%           | 0.197%        |
| 32        | 15.874      | 2188          | 2191        | 2197         | rBV3     | 46723          | 70066         | 2.87%           | 0.199%        |
| 33        | 16.657      | 2320          | 2324        | 2327         | rBV5     | 26488          | 33731         | 1.38%           | 0.096%        |
| 34        | 16.986      | 2374          | 2380        | 2386         | rBV      | 1371284        | 1928849       | 79.00%          | 5.485%        |

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ALS Vial : 24 Sample Multiplier: 1

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ClientSampleId :  
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Filtering: 5  
Min Area: 1 % of largest Peak  
Max Peaks: 100  
Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 17.086 | 2390 | 2397 | 2406 | rVV  | 1553517 | 2245860 | 91.99%  | 6.387% |
| 36 | 17.892 | 2529 | 2534 | 2541 | rBV2 | 315040  | 491039  | 20.11%  | 1.396% |
| 37 | 19.033 | 2725 | 2728 | 2730 | rBV3 | 44357   | 59875   | 2.45%   | 0.170% |
| 38 | 19.180 | 2749 | 2753 | 2761 | rBV4 | 191381  | 306268  | 12.54%  | 0.871% |
| 39 | 19.386 | 2783 | 2788 | 2795 | rBV2 | 1706548 | 2397829 | 98.21%  | 6.819% |
| 40 | 19.445 | 2796 | 2798 | 2802 | rVB5 | 47113   | 48183   | 1.97%   | 0.137% |
| 41 | 20.274 | 2936 | 2939 | 2943 | rVB5 | 108992  | 132080  | 5.41%   | 0.376% |
| 42 | 20.915 | 3044 | 3048 | 3054 | rBV3 | 318559  | 510938  | 20.93%  | 1.453% |
| 43 | 21.186 | 3090 | 3094 | 3100 | rBV2 | 1526970 | 1896359 | 77.67%  | 5.393% |
| 44 | 23.239 | 3438 | 3443 | 3452 | rVB2 | 1366899 | 2441467 | 100.00% | 6.943% |
| 45 | 23.374 | 3461 | 3466 | 3475 | rVB  | 1044405 | 1995412 | 81.73%  | 5.675% |

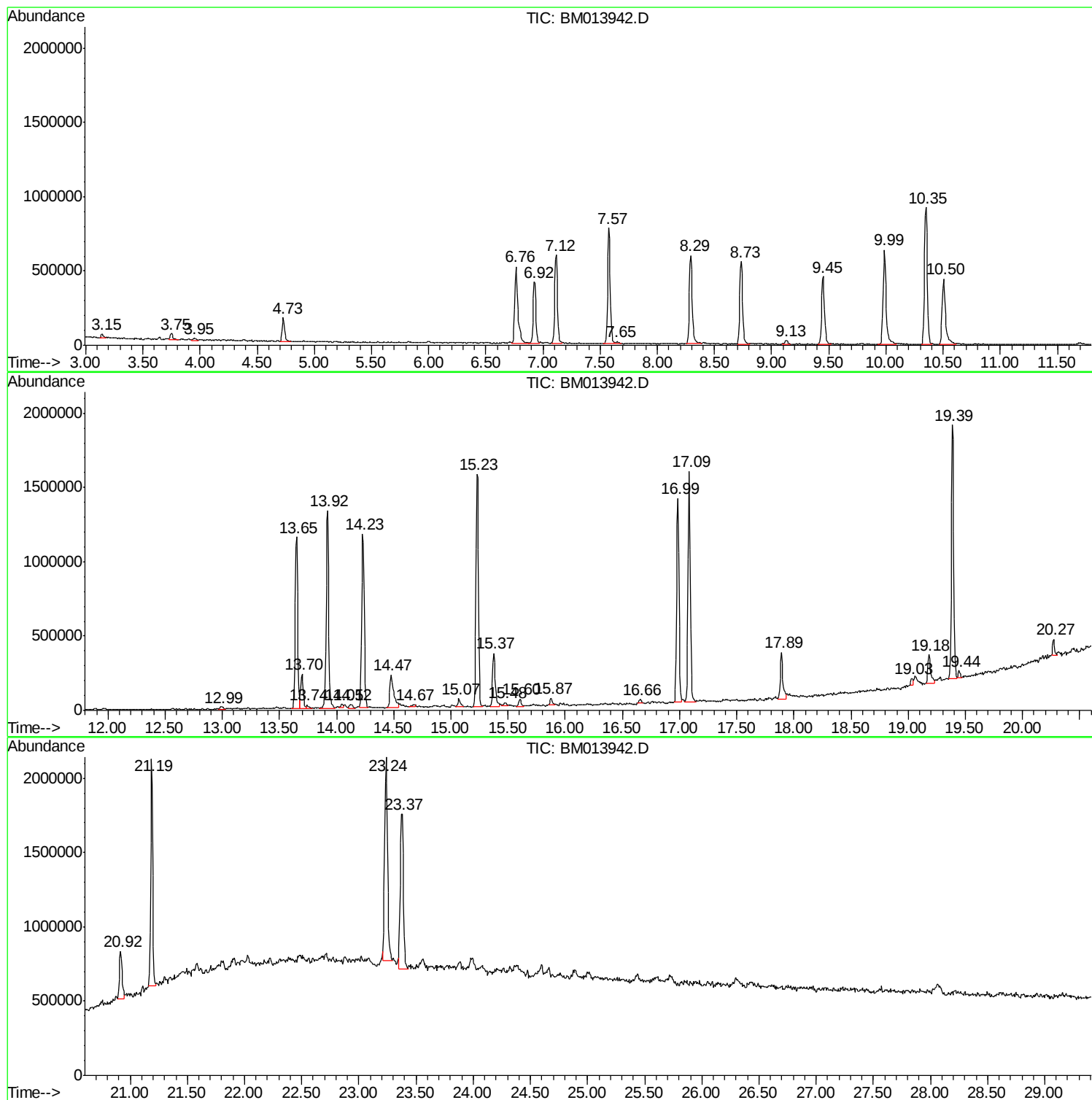
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

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



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Acq On : 29 Jan 2018 03:01  
Operator : SJ/JU  
Sample : J1244-20  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

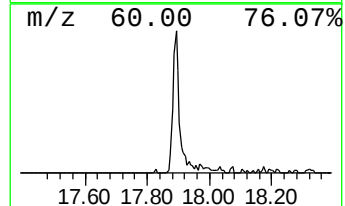
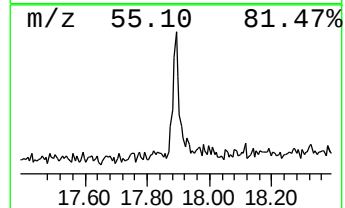
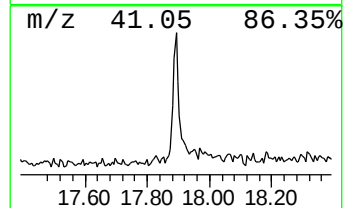
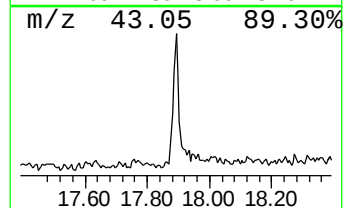
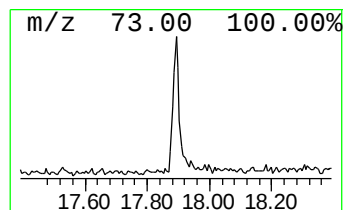
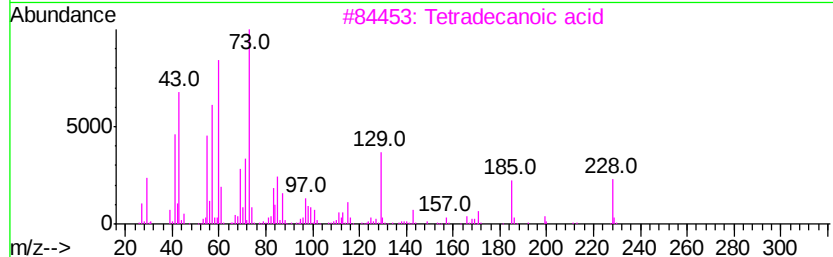
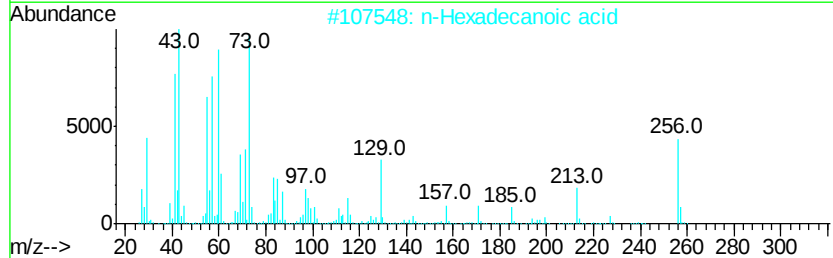
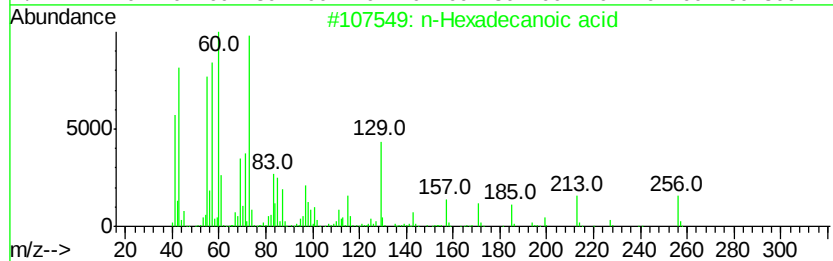
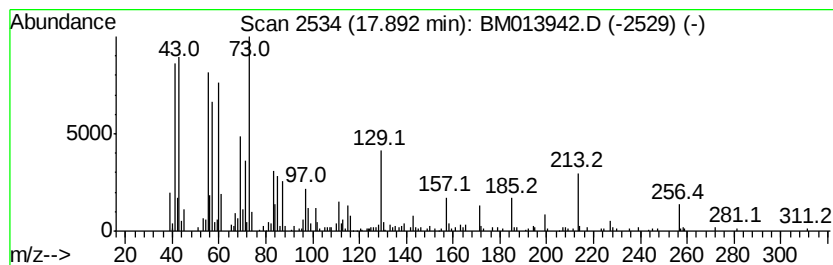
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

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

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

| R.T.    | EstConc             | Area         | Relative to ISTD | R.T.        |      |      |
|---------|---------------------|--------------|------------------|-------------|------|------|
| 17.89   | 5.09 ng/ul          | 491039       | Phenanthrene-d10 | 16.99       |      |      |
| 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 | 97   |      |
| 3       | Tetradecanoic acid  | 228          | C14H28O2         | 000544-63-8 | 93   |      |
| 4       | Tridecanoic acid    | 214          | C13H26O2         | 000638-53-9 | 89   |      |
| 5       | Pentadecanoic acid  | 242          | C15H30O2         | 001002-84-2 | 80   |      |



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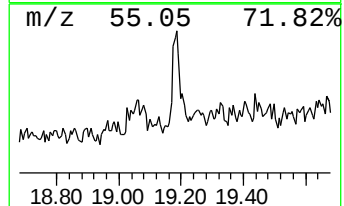
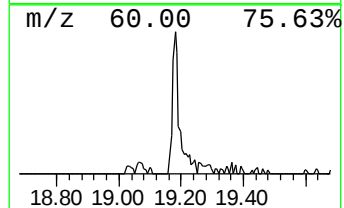
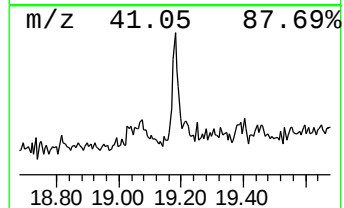
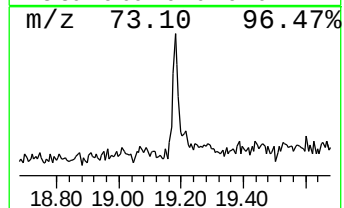
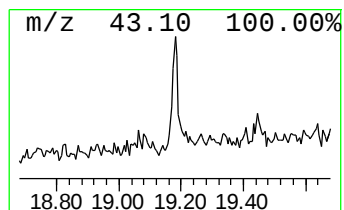
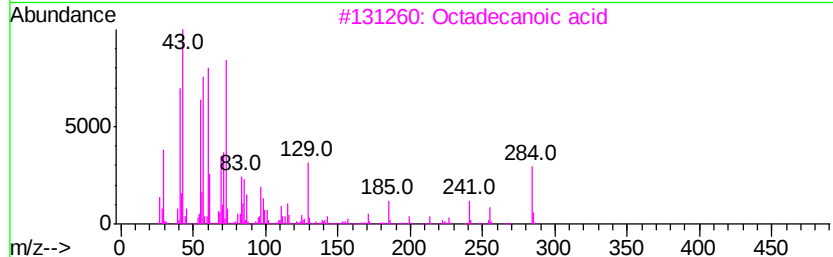
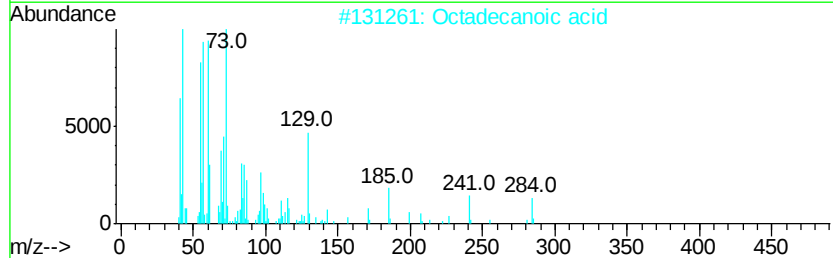
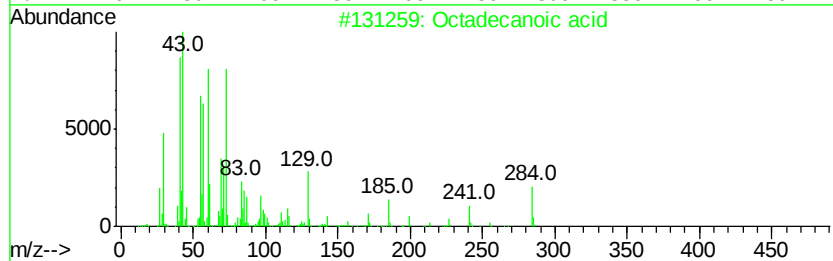
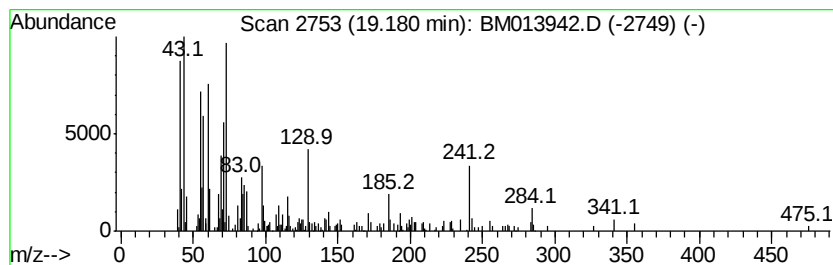
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Octadecanoic acid Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.18 | 3.23 ng/ul | 306268 | Chrysene-d12     | 21.19 |

| Hit# | of | Tentative ID                       | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid                  | 284 | C18H36O2 | 000057-11-4 | 95   |
| 2    |    | Octadecanoic acid                  | 284 | C18H36O2 | 000057-11-4 | 91   |
| 3    |    | Octadecanoic acid                  | 284 | C18H36O2 | 000057-11-4 | 90   |
| 4    |    | Tetradecanoic acid                 | 228 | C14H28O2 | 000544-63-8 | 89   |
| 5    |    | Octadecanoic acid, 2-(2-hydroxy... | 372 | C22H44O4 | 000106-11-6 | 72   |



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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

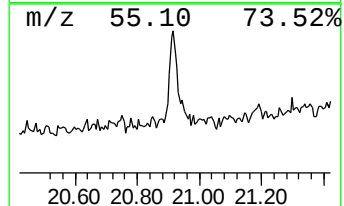
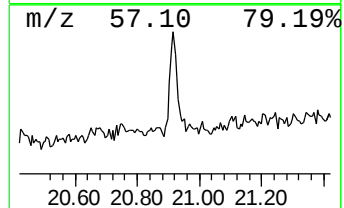
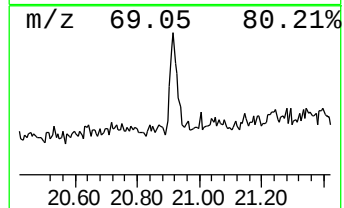
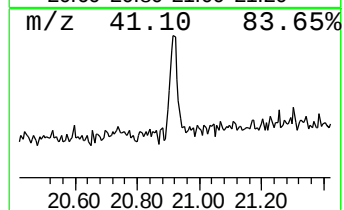
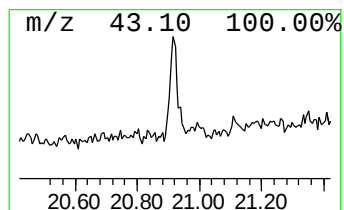
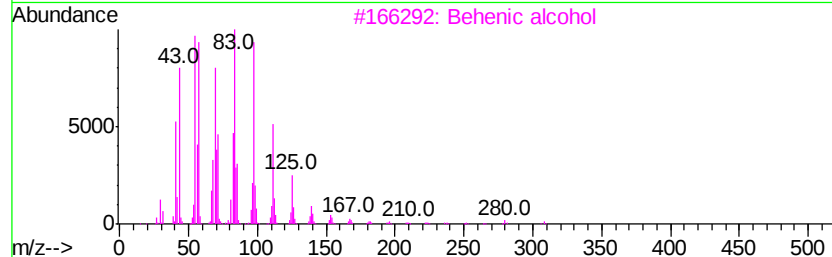
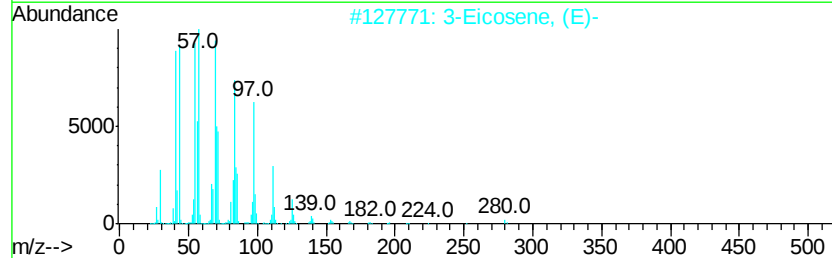
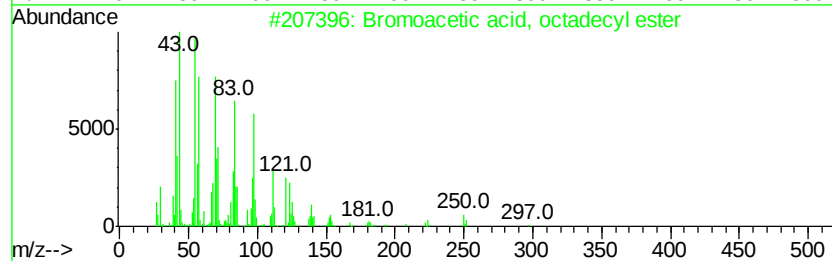
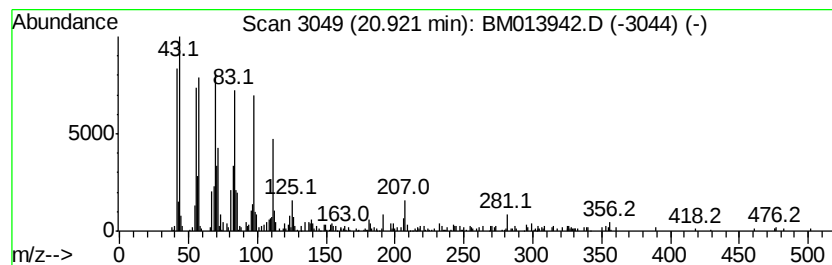
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Peak Number 4 Bromoacetic acid, octadecyl... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.92 | 5.39 ng/ul | 510938 | Chrysene-d12     | 21.19 |

| Hit# | of | Tentative ID                      | MW  | MolForm    | CAS#        | Qual |
|------|----|-----------------------------------|-----|------------|-------------|------|
| 1    | 5  | Bromoacetic acid, octadecyl ester | 390 | C20H39BrO2 | 018992-03-5 | 94   |
| 2    |    | 3-Eicosene, (E)-                  | 280 | C20H40     | 074685-33-9 | 93   |
| 3    |    | Behenic alcohol                   | 326 | C22H46O    | 000661-19-8 | 92   |
| 4    |    | 1-Heptacosanol                    | 396 | C27H56O    | 002004-39-9 | 89   |
| 5    |    | 1-Docosene                        | 308 | C22H44     | 001599-67-3 | 70   |



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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  | 17.89 | 5.1     | ng/ul | 491039   | 4                     | 16.99 | 1928850 | 20.0 |
| Octadecanoic acid    | 19.18 | 3.2     | ng/ul | 306268   | 5                     | 21.19 | 1896360 | 20.0 |
| Bromoacetic acid,... | 20.92 | 5.4     | ng/ul | 510938   | 5                     | 21.19 | 1896360 | 20.0 |