

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051819\  
 Data File : BM020414.D  
 Acq On : 19 May 2019 00:29  
 Operator : JU/SJ  
 Sample : K2690-17  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A5163

## 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-BM051619MA.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         | 3.740       | 125           | 128         | 134          | rVB2     | 42579          | 59799         | 1.50%           | 0.186%        |
| 2         | 6.904       | 660           | 666         | 677          | rBV      | 472504         | 836528        | 21.04%          | 2.605%        |
| 3         | 7.081       | 690           | 696         | 706          | rVB      | 378103         | 616239        | 15.50%          | 1.919%        |
| 4         | 7.269       | 722           | 728         | 736          | rVB      | 534846         | 856656        | 21.55%          | 2.668%        |
| 5         | 7.739       | 802           | 808         | 821          | rVB      | 404740         | 662378        | 16.66%          | 2.063%        |
| 6         | 8.445       | 921           | 928         | 944          | rBV      | 368858         | 641257        | 16.13%          | 1.997%        |
| 7         | 8.904       | 999           | 1006        | 1020         | rBV      | 472705         | 821181        | 20.66%          | 2.557%        |
| 8         | 9.051       | 1030          | 1031        | 1035         | rVB2     | 4683           | 4170          | 0.10%           | 0.013%        |
| 9         | 9.239       | 1061          | 1063        | 1068         | rVB4     | 4897           | 6478          | 0.16%           | 0.020%        |
| 10        | 9.622       | 1121          | 1128        | 1138         | rBV      | 384760         | 662202        | 16.66%          | 2.062%        |
| 11        | 10.151      | 1211          | 1218        | 1236         | rBV      | 598724         | 1060969       | 26.69%          | 3.304%        |
| 12        | 10.533      | 1275          | 1283        | 1290         | rBV      | 514480         | 864365        | 21.74%          | 2.692%        |
| 13        | 10.680      | 1301          | 1308        | 1325         | rBV      | 289779         | 576341        | 14.50%          | 1.795%        |
| 14        | 12.127      | 1549          | 1554        | 1559         | rBV3     | 7313           | 11721         | 0.29%           | 0.037%        |
| 15        | 12.886      | 1679          | 1683        | 1688         | rVB2     | 2913           | 4056          | 0.10%           | 0.013%        |
| 16        | 12.980      | 1694          | 1699        | 1703         | rVB5     | 3643           | 6112          | 0.15%           | 0.019%        |
| 17        | 13.186      | 1728          | 1734        | 1738         | rVV3     | 5680           | 8445          | 0.21%           | 0.026%        |
| 18        | 13.268      | 1741          | 1748        | 1751         | rVB4     | 7410           | 11305         | 0.28%           | 0.035%        |
| 19        | 13.710      | 1819          | 1823        | 1827         | rBV3     | 5731           | 7475          | 0.19%           | 0.023%        |
| 20        | 13.804      | 1827          | 1839        | 1843         | rVV      | 1093343        | 1554336       | 39.10%          | 4.841%        |
| 21        | 13.845      | 1843          | 1846        | 1853         | rVV      | 275306         | 371000        | 9.33%           | 1.155%        |
| 22        | 14.021      | 1872          | 1876        | 1880         | rBV4     | 4233           | 6850          | 0.17%           | 0.021%        |
| 23        | 14.086      | 1880          | 1887        | 1894         | rBV      | 1242082        | 1764632       | 44.39%          | 5.496%        |
| 24        | 14.192      | 1903          | 1905        | 1911         | rBV6     | 5192           | 8361          | 0.21%           | 0.026%        |
| 25        | 14.262      | 1913          | 1917        | 1922         | rBV      | 9652           | 15075         | 0.38%           | 0.047%        |
| 26        | 14.392      | 1932          | 1939        | 1947         | rVB2     | 728827         | 1070953       | 26.94%          | 3.335%        |
| 27        | 14.610      | 1970          | 1976        | 1996         | rBV      | 243065         | 498238        | 12.53%          | 1.552%        |
| 28        | 14.774      | 2000          | 2004        | 2005         | rBV4     | 14192          | 19098         | 0.48%           | 0.059%        |
| 29        | 14.862      | 2016          | 2019        | 2021         | rVB3     | 5499           | 4961          | 0.12%           | 0.015%        |
| 30        | 15.004      | 2039          | 2043        | 2048         | rBV4     | 4822           | 6860          | 0.17%           | 0.021%        |
| 31        | 15.068      | 2050          | 2054        | 2057         | rVB4     | 4330           | 5963          | 0.15%           | 0.019%        |
| 32        | 15.110      | 2057          | 2061        | 2064         | rVB5     | 3219           | 4950          | 0.12%           | 0.015%        |
| 33        | 15.168      | 2066          | 2071        | 2075         | rBV6     | 7445           | 11265         | 0.28%           | 0.035%        |
| 34        | 15.221      | 2075          | 2080        | 2084         | rVB5     | 15015          | 19465         | 0.49%           | 0.061%        |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 15.386 | 2102 | 2108 | 2116 | rBV  | 1506775 | 2132508 | 53.64%  | 6.641%  |
| 36 | 15.527 | 2127 | 2132 | 2143 | rBV  | 205401  | 291004  | 7.32%   | 0.906%  |
| 37 | 15.621 | 2143 | 2148 | 2156 | rVB5 | 25246   | 39701   | 1.00%   | 0.124%  |
| 38 | 15.715 | 2159 | 2164 | 2165 | rBV5 | 4330    | 5414    | 0.14%   | 0.017%  |
| 39 | 15.839 | 2181 | 2185 | 2191 | rBV7 | 4357    | 8739    | 0.22%   | 0.027%  |
| 40 | 15.921 | 2195 | 2199 | 2200 | rBV3 | 4784    | 5866    | 0.15%   | 0.018%  |
| 41 | 16.027 | 2211 | 2217 | 2218 | rBV6 | 3213    | 6323    | 0.16%   | 0.020%  |
| 42 | 16.086 | 2224 | 2227 | 2228 | rBV  | 13872   | 14553   | 0.37%   | 0.045%  |
| 43 | 16.433 | 2285 | 2286 | 2288 | rBV2 | 4607    | 3986    | 0.10%   | 0.012%  |
| 44 | 16.539 | 2300 | 2304 | 2307 | rBV6 | 6189    | 8725    | 0.22%   | 0.027%  |
| 45 | 16.656 | 2321 | 2324 | 2325 | rBV3 | 6114    | 6175    | 0.16%   | 0.019%  |
| 46 | 16.880 | 2359 | 2362 | 2365 | rVV4 | 8666    | 10135   | 0.25%   | 0.032%  |
| 47 | 16.927 | 2367 | 2370 | 2374 | rVB5 | 13109   | 19582   | 0.49%   | 0.061%  |
| 48 | 17.039 | 2382 | 2389 | 2390 | rBV6 | 7473    | 15756   | 0.40%   | 0.049%  |
| 49 | 17.145 | 2401 | 2407 | 2414 | rBV2 | 782361  | 1144469 | 28.79%  | 3.564%  |
| 50 | 17.245 | 2417 | 2424 | 2432 | rVV  | 1401910 | 1978980 | 49.78%  | 6.163%  |
| 51 | 17.615 | 2485 | 2487 | 2491 | rVB4 | 14903   | 16701   | 0.42%   | 0.052%  |
| 52 | 18.027 | 2552 | 2557 | 2568 | rBV  | 271917  | 489516  | 12.31%  | 1.524%  |
| 53 | 18.380 | 2613 | 2617 | 2622 | rBV2 | 35501   | 76112   | 1.91%   | 0.237%  |
| 54 | 19.309 | 2772 | 2775 | 2780 | rBV  | 123757  | 156834  | 3.95%   | 0.488%  |
| 55 | 19.545 | 2810 | 2815 | 2824 | rBV  | 1725782 | 2357225 | 59.30%  | 7.341%  |
| 56 | 21.027 | 3064 | 3067 | 3072 | rBV2 | 288879  | 411233  | 10.34%  | 1.281%  |
| 57 | 21.333 | 3116 | 3119 | 3125 | rVB  | 970011  | 1151705 | 28.97%  | 3.587%  |
| 58 | 21.462 | 3139 | 3141 | 3148 | rVB  | 296954  | 300660  | 7.56%   | 0.936%  |
| 59 | 21.897 | 3212 | 3215 | 3218 | rBV  | 590154  | 625597  | 15.74%  | 1.948%  |
| 60 | 22.368 | 3291 | 3295 | 3300 | rVB  | 812768  | 1079200 | 27.15%  | 3.361%  |
| 61 | 22.880 | 3378 | 3382 | 3387 | rVB  | 981540  | 1349440 | 33.95%  | 4.203%  |
| 62 | 23.462 | 3475 | 3481 | 3491 | rBV3 | 1791763 | 3975226 | 100.00% | 12.380% |
| 63 | 23.615 | 3504 | 3507 | 3515 | rVB  | 795370  | 1348933 | 33.93%  | 4.201%  |

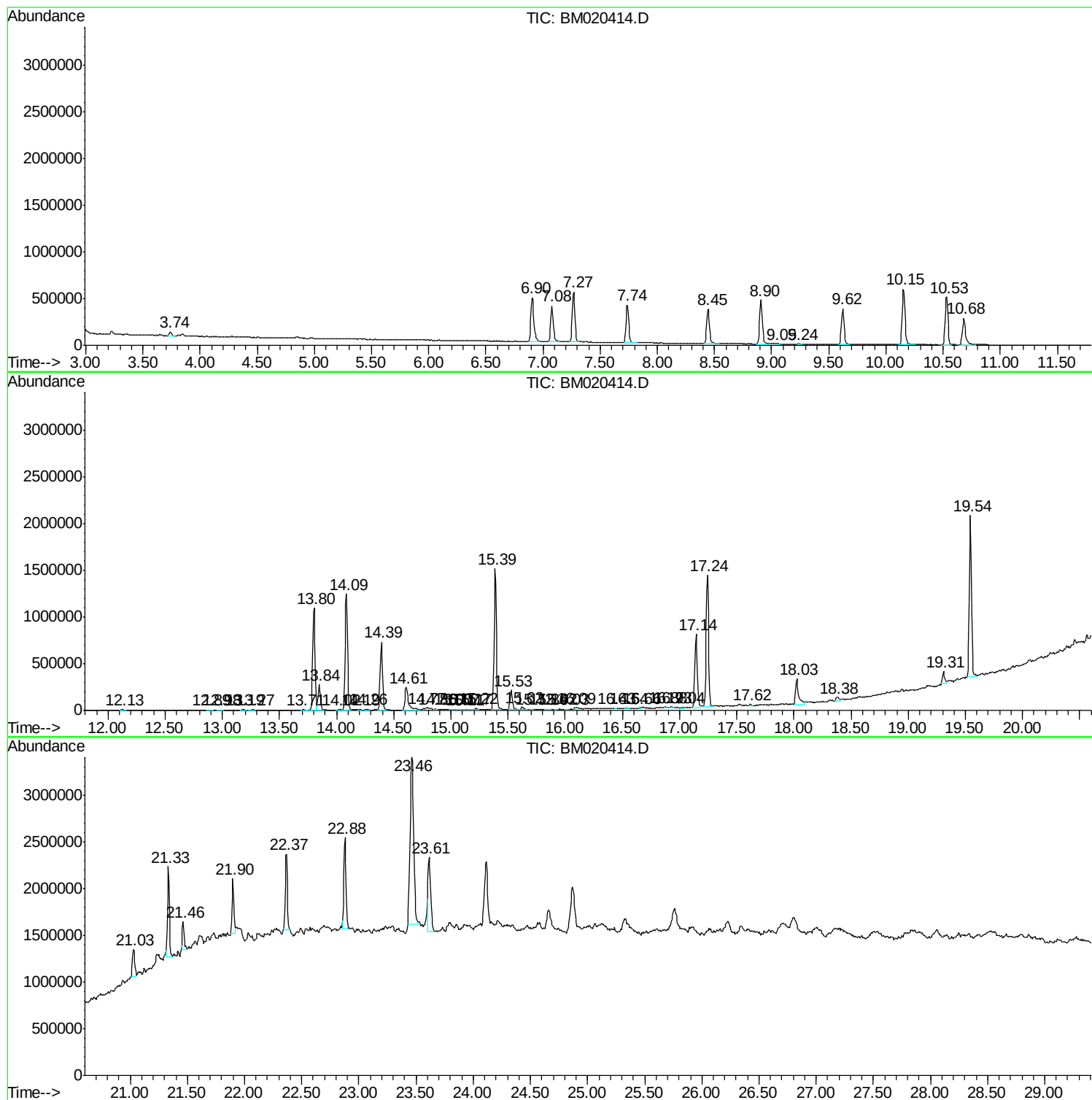
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Instrument :  
BNA\_M  
ClientSampleId :  
A5163

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.M  
Quant Title : SVOA CALIBRATION

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



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.M  
Quant Title : SVOA CALIBRATION

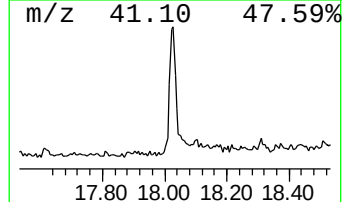
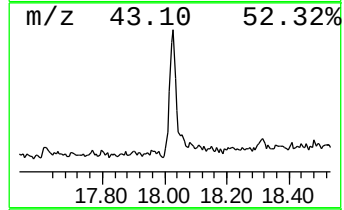
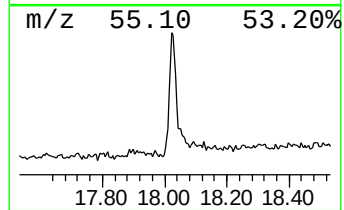
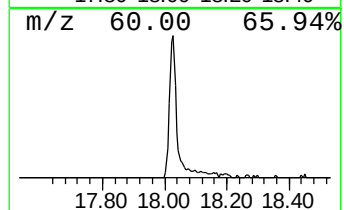
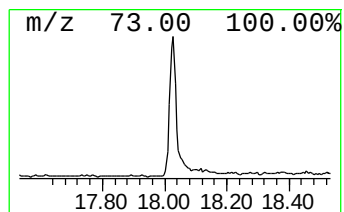
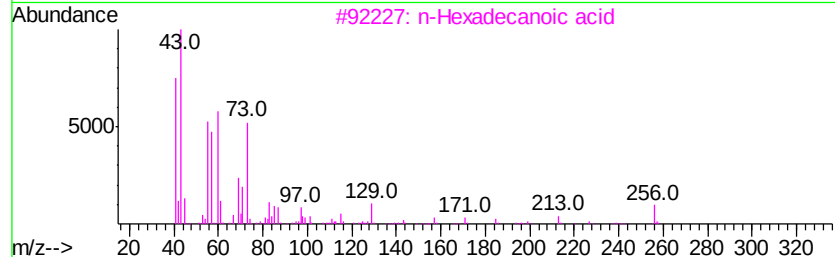
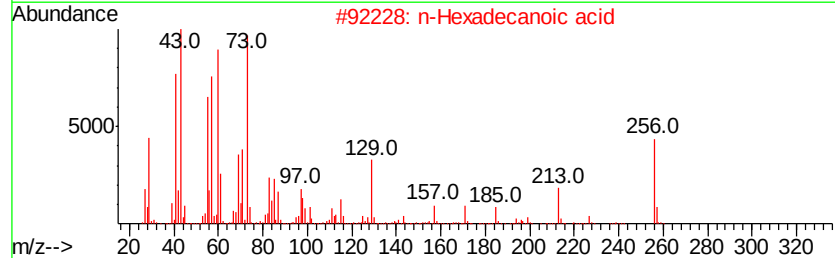
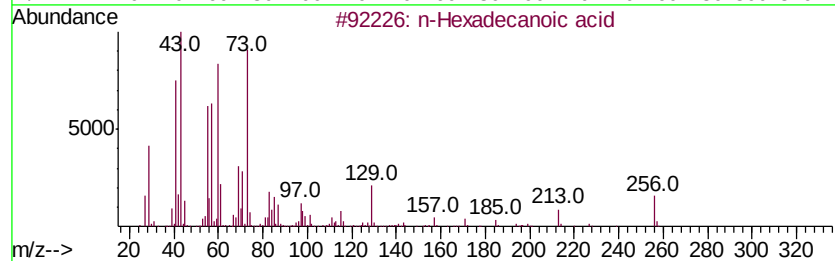
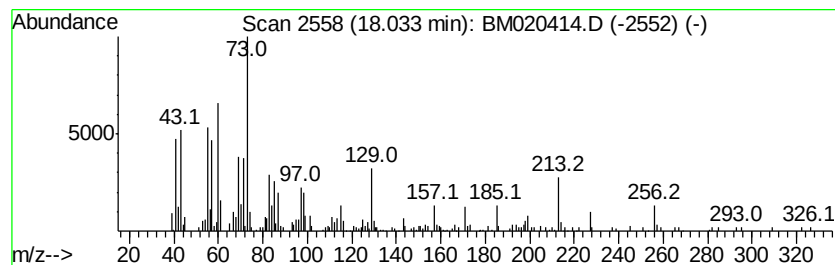
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.03 | 8.55 ng/ul | 489516 | Phenanthrene-d10 | 17.14 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96   |
| 2    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96   |
| 3    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 95   |
| 4    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 58   |
| 5    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 53   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.M  
Quant Title : SVOA CALIBRATION

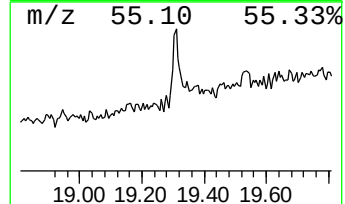
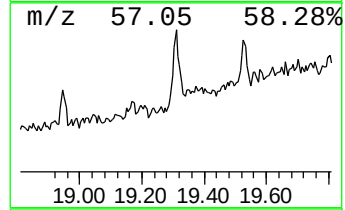
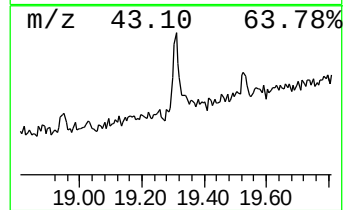
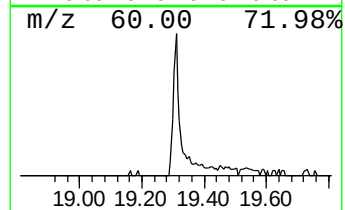
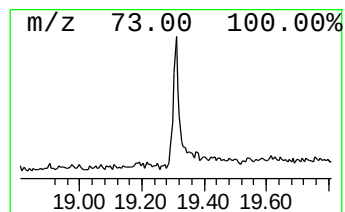
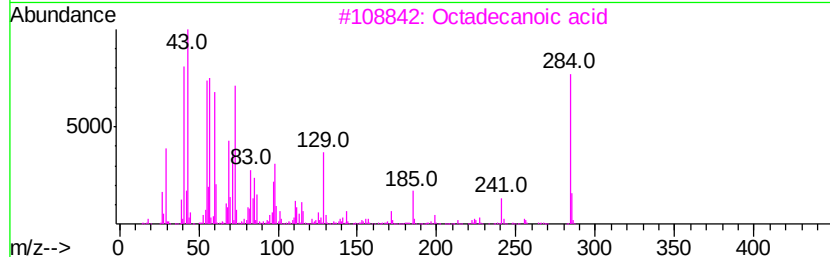
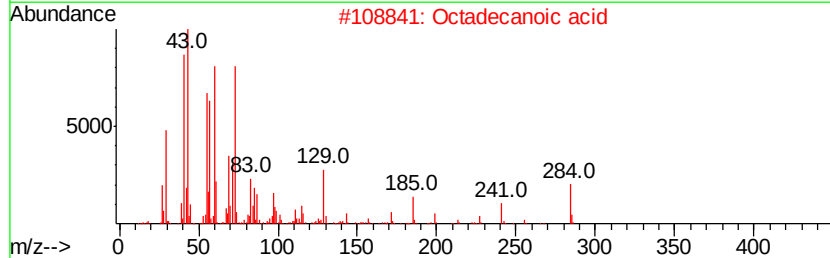
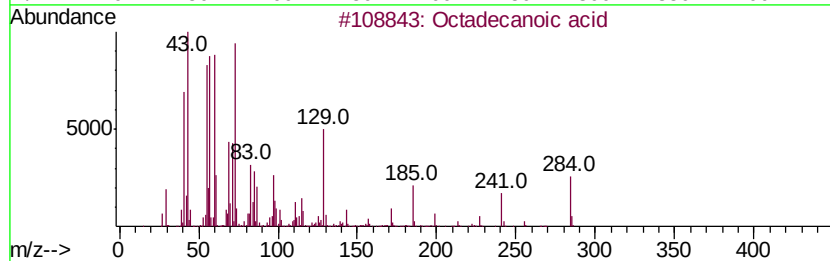
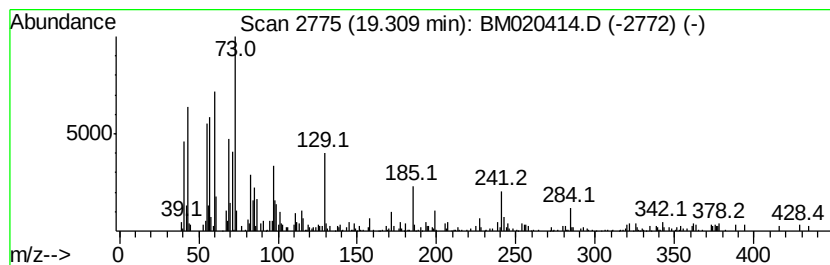
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Octadecanoic acid Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.31 | 2.72 ng/ul | 156834 | Chrysene-d12     | 21.33 |

| Hit# | of | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 97   |
| 2    |    | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 96   |
| 3    |    | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 90   |
| 4    |    | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 89   |
| 5    |    | Octadecanoic acid  | 284 | C18H36O2 | 000057-11-4 | 89   |



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Quant Title : SVOA CALIBRATION

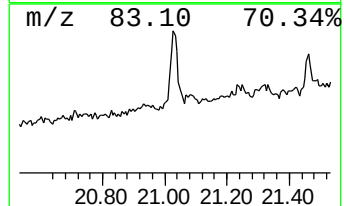
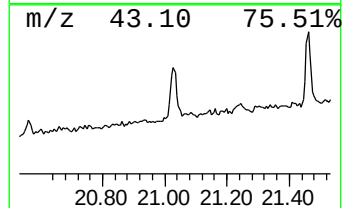
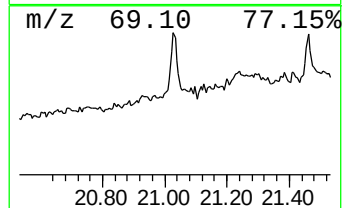
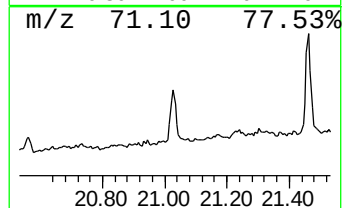
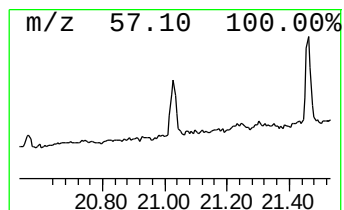
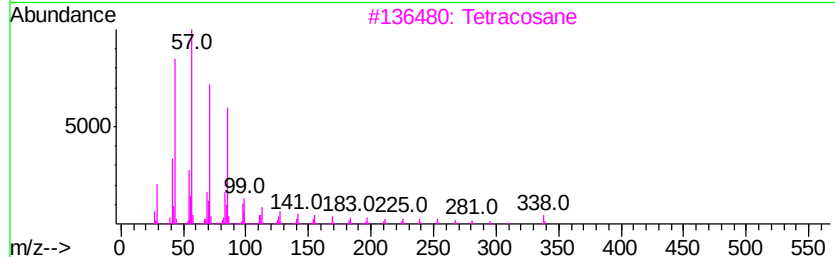
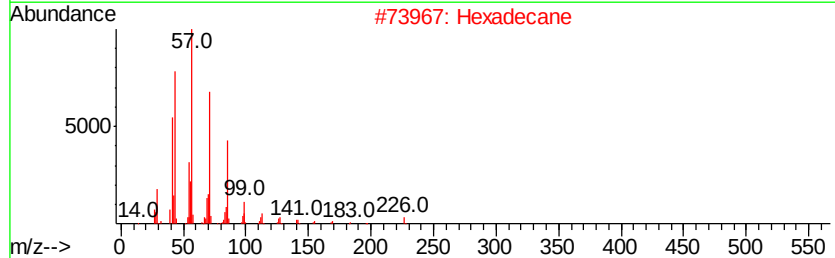
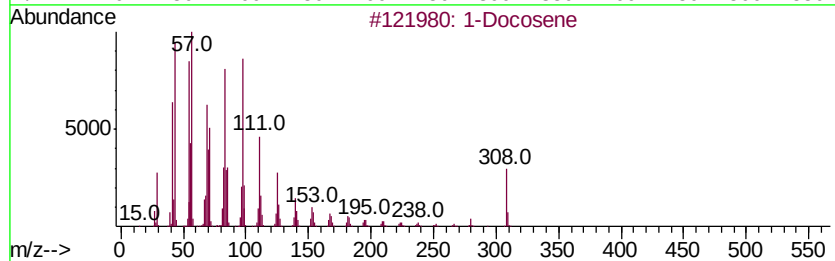
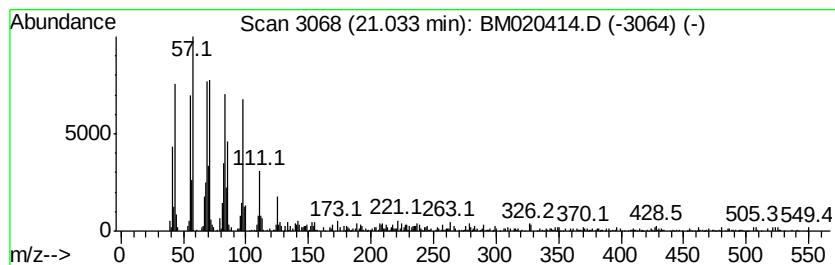
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Cyclic21.03 Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.03 | 7.14 ng/ul | 411233 | Chrysene-d12     | 21.33 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | 1-Docosene   | 308 | C22H44  | 001599-67-3 | 83   |
| 2    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 83   |
| 3    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 80   |
| 4    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 78   |
| 5    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 78   |



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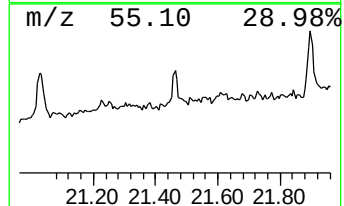
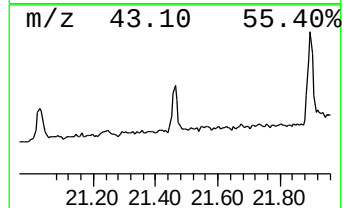
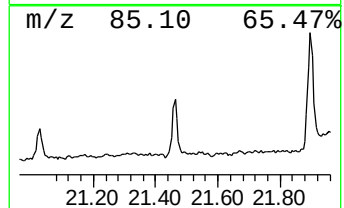
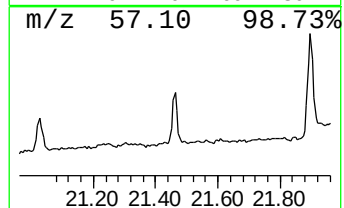
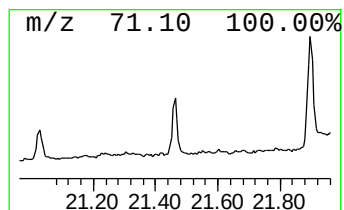
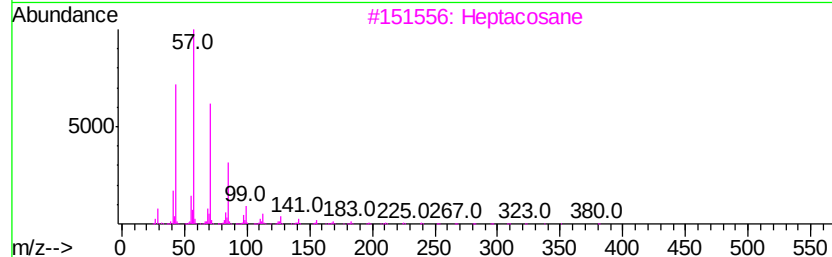
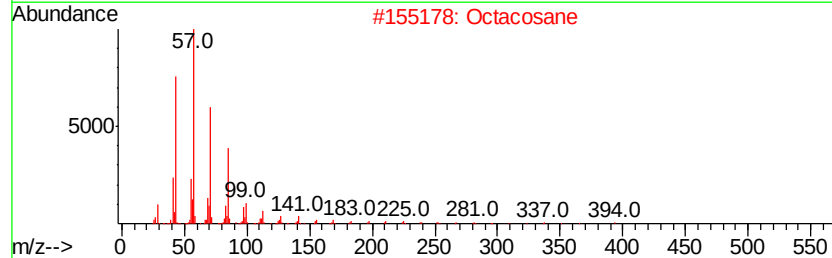
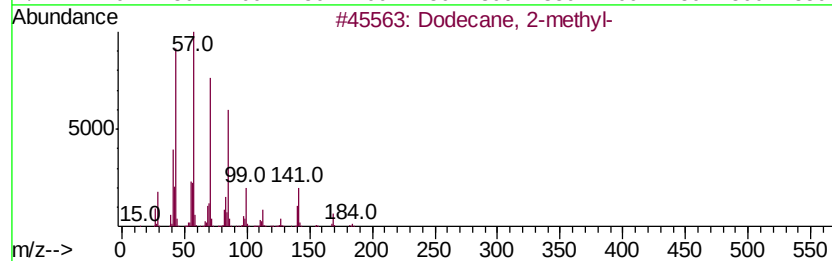
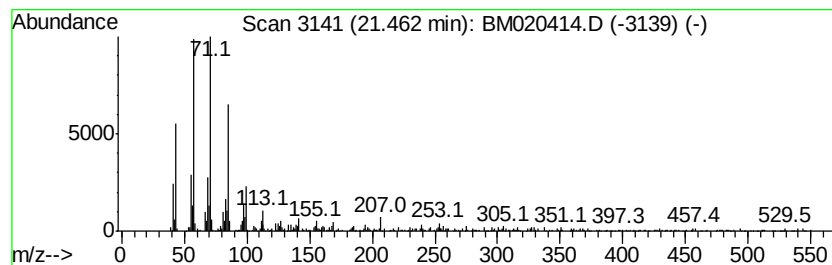
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.46 | 5.22 ng/ul | 300660 | Chrysene-d12     | 21.33 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------|-----|---------|--------------|------|
| 1    | 5  | Dodecane, 2-methyl-           | 184 | C13H28  | 001560-97-0  | 87   |
| 2    |    | Octacosane                    | 394 | C28H58  | 000630-02-4  | 83   |
| 3    |    | Heptacosane                   | 380 | C27H56  | 000593-49-7  | 81   |
| 4    |    | Tridecanol, 2-ethyl-2-methyl- | 242 | C16H34O | 1000115-66-1 | 80   |
| 5    |    | Eicosane                      | 282 | C20H42  | 000112-95-8  | 74   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051819\  
Data File : BM020414.D  
Acq On : 19 May 2019 00:29  
Operator : JU/SJ  
Sample : K2690-17  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A5163

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.M  
Quant Title : SVOA CALIBRATION

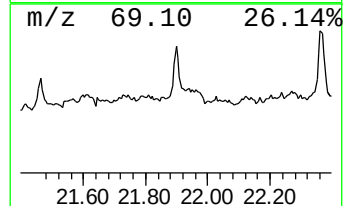
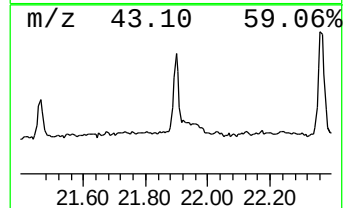
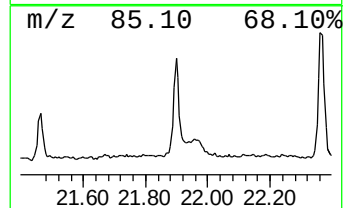
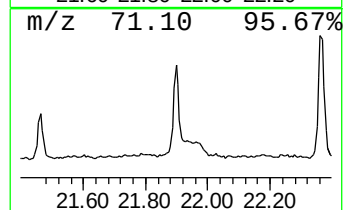
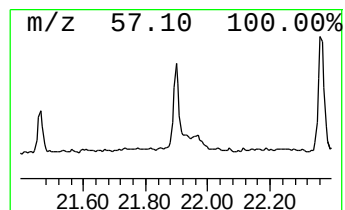
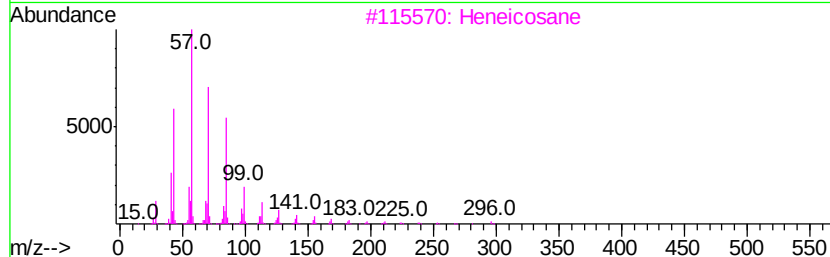
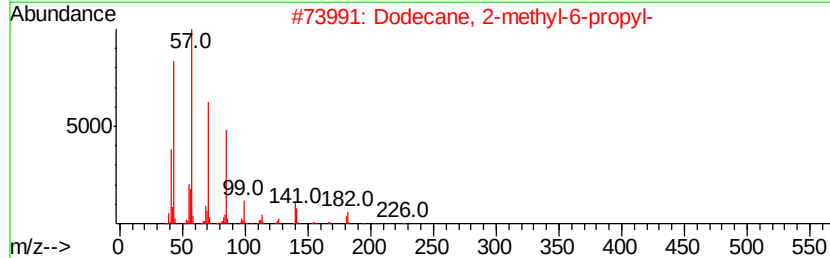
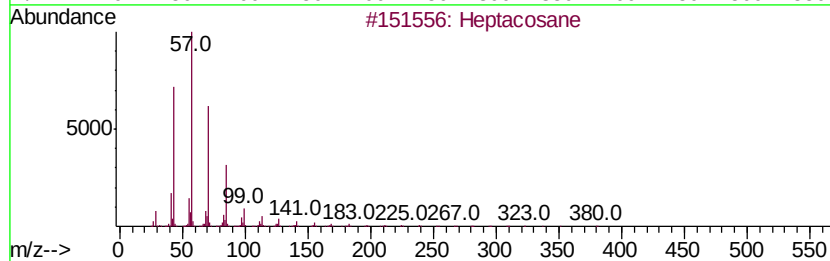
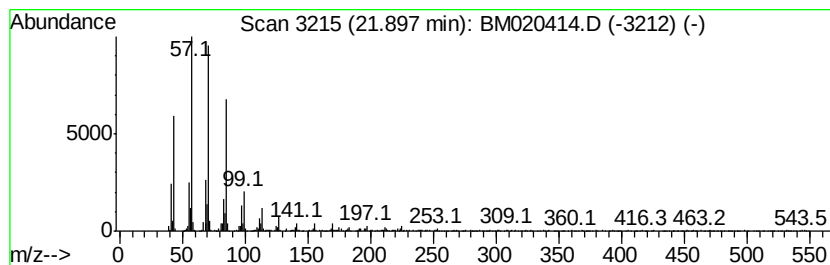
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 21.90 | 10.86 ng/ul | 625597 | Chrysene-d12     | 21.33 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptacosane                  | 380 | C27H56  | 000593-49-7 | 90   |
| 2    |    | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 90   |
| 3    |    | Heneicosane                  | 296 | C21H44  | 000629-94-7 | 87   |
| 4    |    | Docosane                     | 310 | C22H46  | 000629-97-0 | 86   |
| 5    |    | Hexadecane, 5-butyl-         | 282 | C20H42  | 006912-07-8 | 81   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051819\  
Data File : BM020414.D  
Acq On : 19 May 2019 00:29  
Operator : JU/SJ  
Sample : K2690-17  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A5163

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.M  
Quant Title : SVOA CALIBRATION

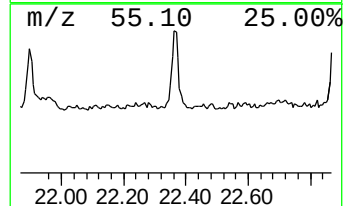
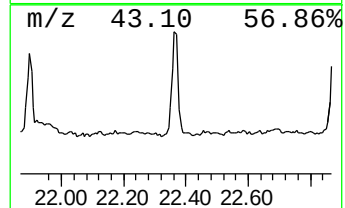
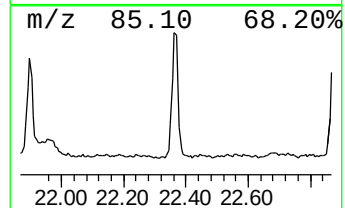
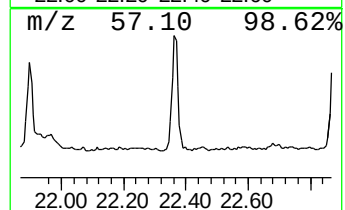
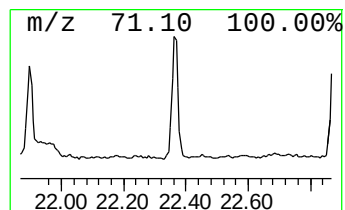
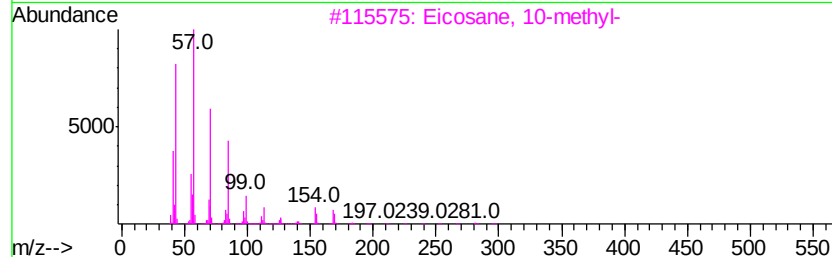
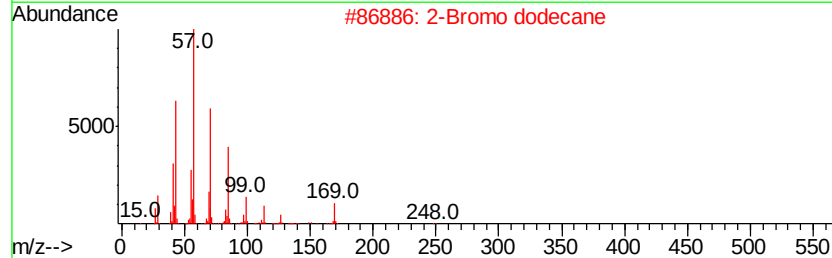
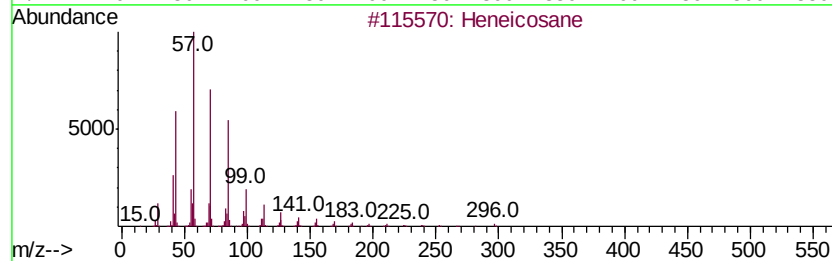
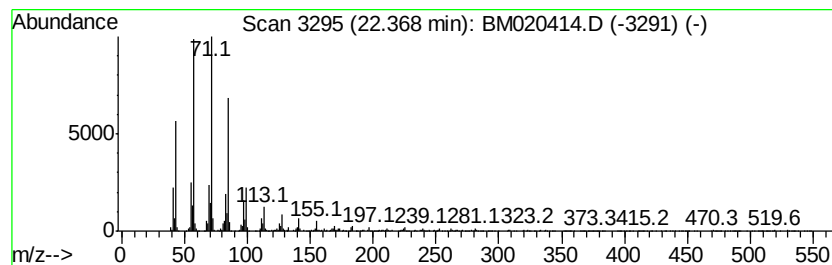
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 22.37 | 18.74 ng/ul | 1079200 | Chrysene-d12     | 21.33 |

| Hit# | of | Tentative ID         | MW  | MolForm  | CAS#        | Qual |
|------|----|----------------------|-----|----------|-------------|------|
| 1    | 5  | Heneicosane          | 296 | C21H44   | 000629-94-7 | 91   |
| 2    |    | 2-Bromo dodecane     | 248 | C12H25Br | 013187-99-0 | 90   |
| 3    |    | Eicosane, 10-methyl- | 296 | C21H44   | 054833-23-7 | 90   |
| 4    |    | Octacosane           | 394 | C28H58   | 000630-02-4 | 83   |
| 5    |    | Heptacosane          | 380 | C27H56   | 000593-49-7 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051819\  
Data File : BM020414.D  
Acq On : 19 May 2019 00:29  
Operator : JU/SJ  
Sample : K2690-17  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

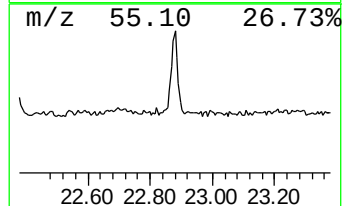
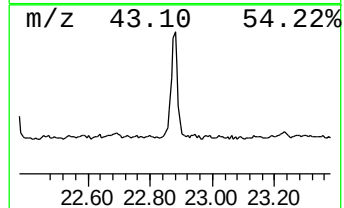
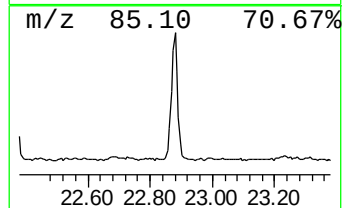
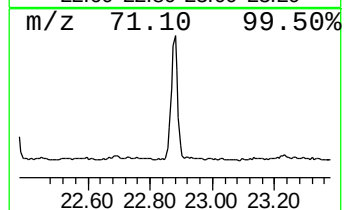
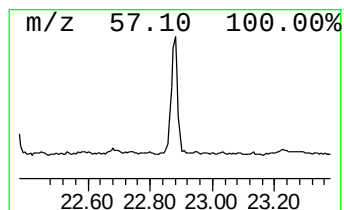
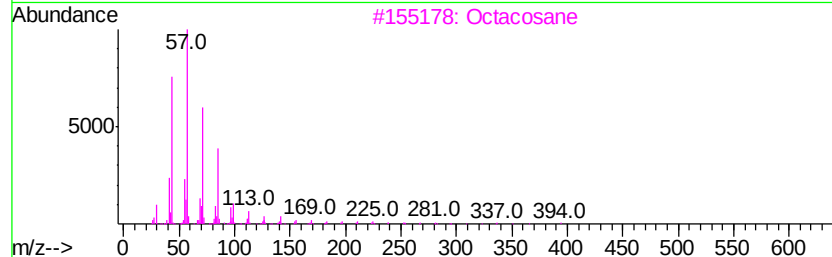
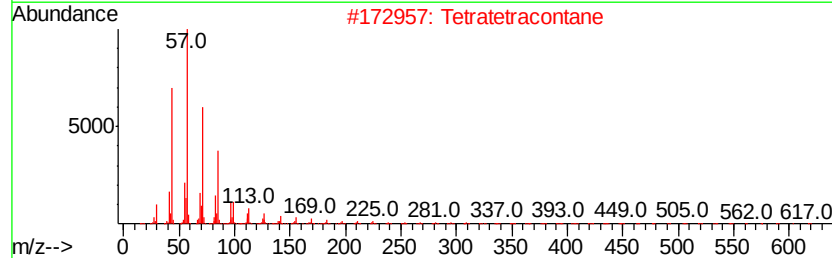
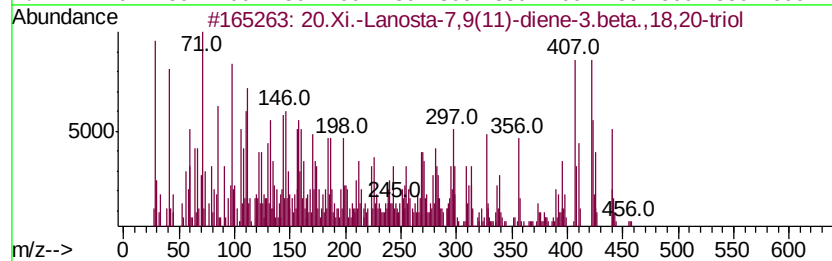
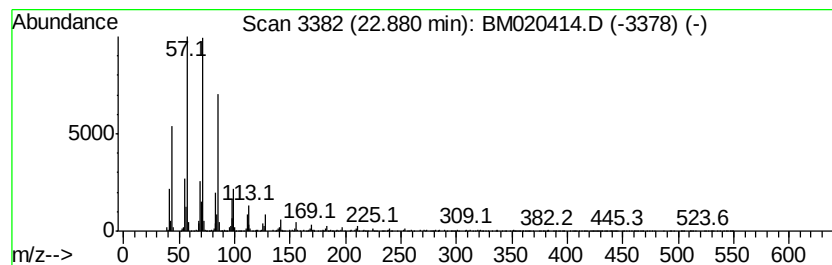
Instrument :  
BNA\_M  
ClientSampleId :  
A5163

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 7 20.Xi.-Lanosta-7,9(11)-dien... Concentration Rank 1

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------------|--------------|------------------|-----------|
| 22.88   | 20.01 ng/ul                         | 1349440      | Perylene-d12     | 23.61     |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 20.Xi.-Lanosta-7,9(11)-diene-3.b... | 458 C30H50O3 | 025116-58-9      | 94        |
| 2       | Tetratetracontane                   | 619 C44H90   | 007098-22-8      | 87        |
| 3       | Octacosane                          | 394 C28H58   | 000630-02-4      | 87        |
| 4       | Nonacosane                          | 408 C29H60   | 000630-03-5      | 83        |
| 5       | Heneicosane, 11-(1-ethylpropyl)-    | 366 C26H54   | 055282-11-6      | 80        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM051819\  
Data File : BM020414.D  
Acq On : 19 May 2019 00:29  
Operator : JU/SJ  
Sample : K2690-17  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A5163

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM051619MA.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  | 18.03 | 8.6     | ng/ul | 489516   | 4                     | 17.14 | 1144470 | 20.0 |
| Octadecanoic acid    | 19.31 | 2.7     | ng/ul | 156834   | 5                     | 21.33 | 1151710 | 20.0 |
| (DEL) Alkane: Cyc... | 21.03 | 7.1     | ng/ul | 411233   | 5                     | 21.33 | 1151710 | 20.0 |
| (DEL) Alkane: Str... | 21.46 | 5.2     | ng/ul | 300660   | 5                     | 21.33 | 1151710 | 20.0 |
| (DEL) Alkane: Str... | 21.90 | 10.9    | ng/ul | 625597   | 5                     | 21.33 | 1151710 | 20.0 |
| (DEL) Alkane: Str... | 22.37 | 18.7    | ng/ul | 1079200  | 5                     | 21.33 | 1151710 | 20.0 |
| 20.Xi.-Lanosta-7,... | 22.88 | 20.0    | ng/ul | 1349440  | 6                     | 23.61 | 1348930 | 20.0 |