

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
 Data File : BM023546.D  
 Acq On : 01 Nov 2019 07:03  
 Operator : JU  
 Sample : K5433-14  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JLNG0

## 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-BM102319MA.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         | 6.793       | 641           | 647         | 661          | rVB      | 1394038        | 2426116       | 14.90%          | 1.292%        |
| 2         | 6.951       | 668           | 674         | 690          | rVB      | 1088121        | 1782150       | 10.94%          | 0.949%        |
| 3         | 7.146       | 701           | 707         | 717          | rVB      | 1485289        | 2328530       | 14.30%          | 1.240%        |
| 4         | 7.610       | 779           | 786         | 795          | rBV      | 1812946        | 2863875       | 17.58%          | 1.525%        |
| 5         | 8.322       | 900           | 907         | 918          | rVB      | 1543107        | 2547835       | 15.64%          | 1.357%        |
| 6         | 8.757       | 974           | 981         | 994          | rVB      | 1382295        | 2277939       | 13.99%          | 1.213%        |
| 7         | 8.934       | 1008          | 1011        | 1017         | rVB6     | 18218          | 35846         | 0.22%           | 0.019%        |
| 8         | 9.222       | 1057          | 1060        | 1066         | rVB2     | 30377          | 44070         | 0.27%           | 0.023%        |
| 9         | 9.475       | 1096          | 1103        | 1113         | rBV      | 1121196        | 1872215       | 11.50%          | 0.997%        |
| 10        | 10.016      | 1188          | 1195        | 1203         | rBV      | 1724149        | 2870657       | 17.63%          | 1.529%        |
| 11        | 10.387      | 1250          | 1258        | 1265         | rBV      | 2538274        | 4134421       | 25.39%          | 2.202%        |
| 12        | 10.528      | 1274          | 1282        | 1301         | rBV      | 856843         | 1683309       | 10.34%          | 0.897%        |
| 13        | 10.816      | 1327          | 1331        | 1337         | rVB3     | 21815          | 42295         | 0.26%           | 0.023%        |
| 14        | 11.981      | 1525          | 1529        | 1536         | rVB      | 33021          | 55169         | 0.34%           | 0.029%        |
| 15        | 12.098      | 1545          | 1549        | 1552         | rBV4     | 12533          | 18317         | 0.11%           | 0.010%        |
| 16        | 12.716      | 1646          | 1654        | 1658         | rBV6     | 15644          | 34600         | 0.21%           | 0.018%        |
| 17        | 13.175      | 1728          | 1732        | 1740         | rVB6     | 20418          | 41949         | 0.26%           | 0.022%        |
| 18        | 13.545      | 1791          | 1795        | 1799         | rBV6     | 15085          | 29613         | 0.18%           | 0.016%        |
| 19        | 13.675      | 1811          | 1817        | 1821         | rBV      | 3020118        | 4075043       | 25.02%          | 2.170%        |
| 20        | 13.722      | 1821          | 1825        | 1832         | rVB      | 1233442        | 1653588       | 10.15%          | 0.881%        |
| 21        | 13.945      | 1856          | 1863        | 1877         | rVV      | 3581263        | 5320690       | 32.67%          | 2.834%        |
| 22        | 14.186      | 1900          | 1904        | 1907         | rVB4     | 17342          | 22077         | 0.14%           | 0.012%        |
| 23        | 14.257      | 1909          | 1916        | 1930         | rVV      | 3696555        | 5426592       | 33.32%          | 2.890%        |
| 24        | 14.357      | 1930          | 1933        | 1937         | rVB6     | 12418          | 18457         | 0.11%           | 0.010%        |
| 25        | 14.469      | 1946          | 1952        | 1971         | rBV      | 802024         | 1495872       | 9.18%           | 0.797%        |
| 26        | 14.616      | 1973          | 1977        | 1984         | rVV2     | 72100          | 142342        | 0.87%           | 0.076%        |
| 27        | 14.686      | 1984          | 1989        | 2003         | rVB6     | 115934         | 262488        | 1.61%           | 0.140%        |
| 28        | 14.927      | 2027          | 2030        | 2036         | rVB8     | 11637          | 18689         | 0.11%           | 0.010%        |
| 29        | 15.086      | 2054          | 2057        | 2061         | rVV4     | 11992          | 19794         | 0.12%           | 0.011%        |
| 30        | 15.139      | 2063          | 2066        | 2069         | rVB4     | 20065          | 28129         | 0.17%           | 0.015%        |
| 31        | 15.257      | 2079          | 2086        | 2096         | rBV      | 4516952        | 6368188       | 39.10%          | 3.392%        |
| 32        | 15.380      | 2102          | 2107        | 2116         | rBV      | 837696         | 1280274       | 7.86%           | 0.682%        |
| 33        | 15.498      | 2123          | 2127        | 2130         | rBV      | 54635          | 81841         | 0.50%           | 0.044%        |
| 34        | 15.710      | 2158          | 2163        | 2168         | rBV      | 98927          | 143053        | 0.88%           | 0.076%        |

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
 Data File : BM023546.D  
 Acq On : 01 Nov 2019 07:03  
 Operator : JU  
 Sample : K5433-14  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JLNG0

## 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-BM102319MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |          |        |        |
|----|--------|------|------|------|------|---------|----------|--------|--------|
| 35 | 15.957 | 2200 | 2205 | 2209 | rBV7 | 17029   | 30724    | 0.19%  | 0.016% |
| 36 | 16.004 | 2209 | 2213 | 2215 | rVV3 | 19594   | 24860    | 0.15%  | 0.013% |
| 37 | 16.045 | 2216 | 2220 | 2223 | rVB6 | 20465   | 32228    | 0.20%  | 0.017% |
| 38 | 16.157 | 2232 | 2239 | 2247 | rBV  | 112264  | 196703   | 1.21%  | 0.105% |
| 39 | 16.227 | 2247 | 2251 | 2255 | rVV7 | 18723   | 26233    | 0.16%  | 0.014% |
| 40 | 16.433 | 2278 | 2286 | 2291 | rVV7 | 23564   | 60589    | 0.37%  | 0.032% |
| 41 | 16.686 | 2326 | 2329 | 2332 | rVB5 | 14817   | 16693    | 0.10%  | 0.009% |
| 42 | 16.745 | 2335 | 2339 | 2342 | rBV  | 34196   | 45483    | 0.28%  | 0.024% |
| 43 | 16.792 | 2343 | 2347 | 2351 | rVV3 | 24177   | 38567    | 0.24%  | 0.021% |
| 44 | 16.927 | 2366 | 2370 | 2376 | rBV4 | 58225   | 84756    | 0.52%  | 0.045% |
| 45 | 17.004 | 2377 | 2383 | 2390 | rVV  | 4333556 | 6224735  | 38.22% | 3.315% |
| 46 | 17.104 | 2394 | 2400 | 2412 | rVB  | 4650422 | 6578219  | 40.39% | 3.504% |
| 47 | 17.551 | 2471 | 2476 | 2483 | rVB2 | 49314   | 93077    | 0.57%  | 0.050% |
| 48 | 17.651 | 2488 | 2493 | 2498 | rBV  | 131833  | 183539   | 1.13%  | 0.098% |
| 49 | 17.804 | 2515 | 2519 | 2527 | rBV7 | 46154   | 74324    | 0.46%  | 0.040% |
| 50 | 17.868 | 2527 | 2530 | 2534 | rVB6 | 15292   | 23137    | 0.14%  | 0.012% |
| 51 | 17.927 | 2535 | 2540 | 2547 | rBV  | 591231  | 867176   | 5.32%  | 0.462% |
| 52 | 18.227 | 2587 | 2591 | 2598 | rBV8 | 59677   | 112129   | 0.69%  | 0.060% |
| 53 | 18.292 | 2598 | 2602 | 2607 | rVB  | 122020  | 171265   | 1.05%  | 0.091% |
| 54 | 18.374 | 2613 | 2616 | 2622 | rVB7 | 49284   | 75592    | 0.46%  | 0.040% |
| 55 | 18.862 | 2697 | 2699 | 2705 | rVB2 | 50237   | 68664    | 0.42%  | 0.037% |
| 56 | 19.039 | 2726 | 2729 | 2731 | rBV  | 61991   | 81779    | 0.50%  | 0.044% |
| 57 | 19.215 | 2755 | 2759 | 2767 | rBV3 | 169983  | 285310   | 1.75%  | 0.152% |
| 58 | 19.404 | 2786 | 2791 | 2798 | rBV  | 5571584 | 7627819  | 46.84% | 4.063% |
| 59 | 19.956 | 2882 | 2885 | 2888 | rBV2 | 189130  | 238057   | 1.46%  | 0.127% |
| 60 | 19.986 | 2888 | 2890 | 2894 | rVB  | 164568  | 167981   | 1.03%  | 0.089% |
| 61 | 20.351 | 2950 | 2952 | 2957 | rVB2 | 128323  | 149122   | 0.92%  | 0.079% |
| 62 | 20.945 | 3049 | 3053 | 3068 | rBV  | 3020681 | 4189288  | 25.72% | 2.231% |
| 63 | 21.145 | 3083 | 3087 | 3091 | rVB  | 840673  | 965710   | 5.93%  | 0.514% |
| 64 | 21.203 | 3092 | 3097 | 3102 | rBV  | 5542545 | 6895751  | 42.34% | 3.673% |
| 65 | 21.386 | 3125 | 3128 | 3131 | rBV  | 928881  | 898557   | 5.52%  | 0.479% |
| 66 | 21.556 | 3155 | 3157 | 3162 | rVB2 | 333901  | 333611   | 2.05%  | 0.178% |
| 67 | 21.815 | 3197 | 3201 | 3212 | rBV2 | 5260412 | 10084023 | 61.92% | 5.371% |
| 68 | 22.268 | 3274 | 3278 | 3282 | rBV  | 1808892 | 2302786  | 14.14% | 1.226% |
| 69 | 22.492 | 3312 | 3316 | 3326 | rVB  | 1038147 | 1444235  | 8.87%  | 0.769% |
| 70 | 22.768 | 3358 | 3363 | 3367 | rBV  | 4765791 | 6809788  | 41.81% | 3.627% |
| 71 | 22.815 | 3367 | 3371 | 3382 | rVB  | 3913555 | 6647668  | 40.82% | 3.540% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

## 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-BM102319MA.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |          |         |        |
|----|--------|------|------|------|------|---------|----------|---------|--------|
| 72 | 23.256 | 3440 | 3446 | 3452 | rBV  | 4249784 | 7643761  | 46.93%  | 4.071% |
| 73 | 23.321 | 3453 | 3457 | 3463 | rVV  | 1454377 | 2537472  | 15.58%  | 1.351% |
| 74 | 23.397 | 3464 | 3470 | 3478 | rVB  | 4212526 | 8053072  | 49.45%  | 4.289% |
| 75 | 23.627 | 3504 | 3509 | 3517 | rVB  | 2399884 | 4109292  | 25.23%  | 2.189% |
| 76 | 23.962 | 3560 | 3566 | 3572 | rVB  | 2589595 | 4835895  | 29.69%  | 2.576% |
| 77 | 24.044 | 3573 | 3580 | 3592 | rBV  | 7221777 | 16286492 | 100.00% | 8.674% |
| 78 | 25.691 | 3853 | 3860 | 3869 | rBV  | 2112057 | 5959891  | 36.59%  | 3.174% |
| 79 | 26.403 | 3972 | 3981 | 3996 | rVB2 | 4317512 | 13952309 | 85.67%  | 7.431% |
| 80 | 27.280 | 4122 | 4130 | 4146 | rVB2 | 2614522 | 8786848  | 53.95%  | 4.680% |

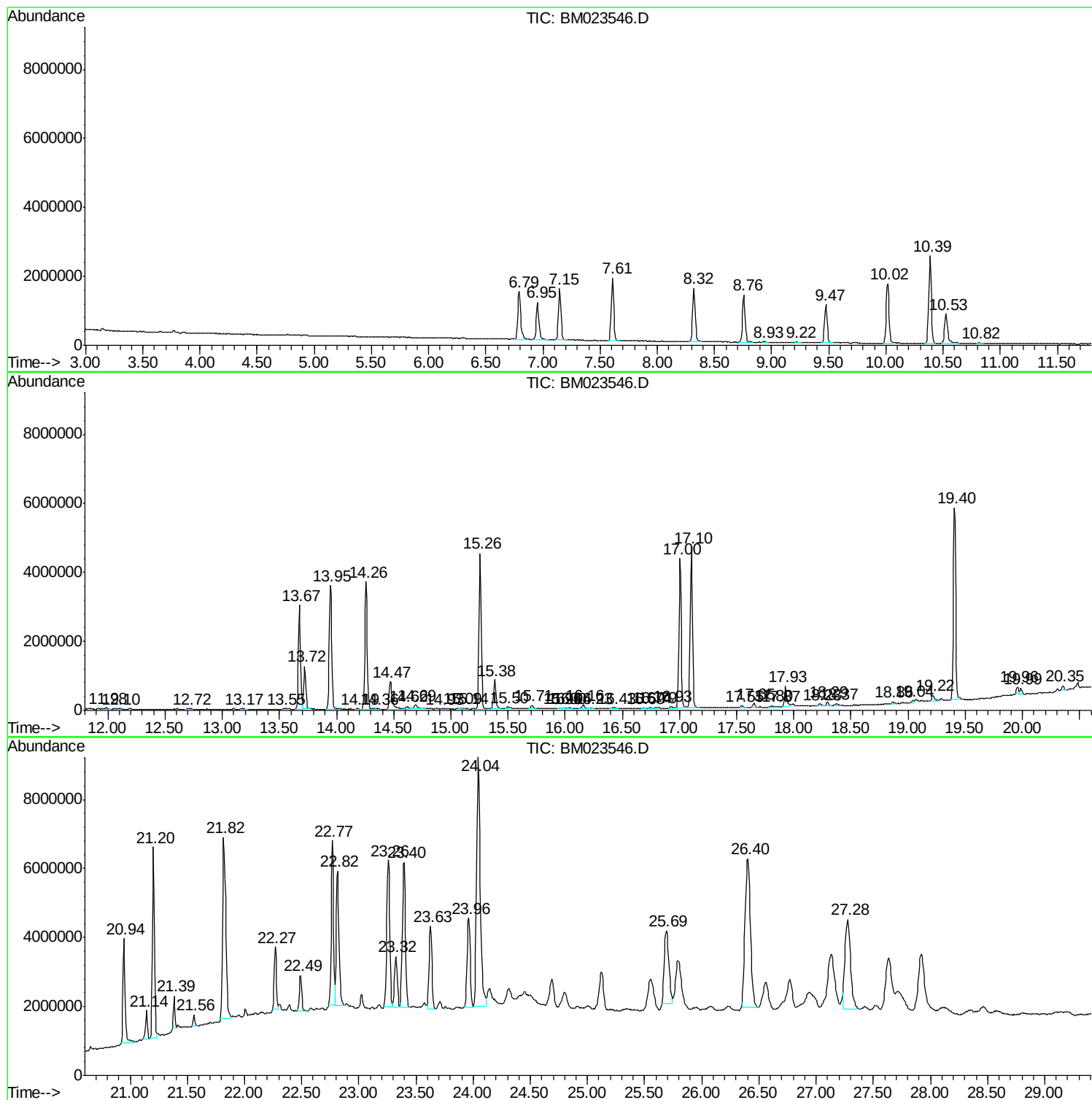
Sum of corrected areas: 187761233

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

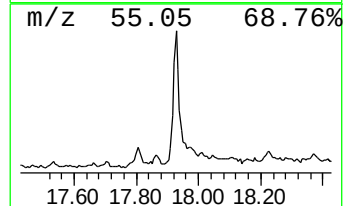
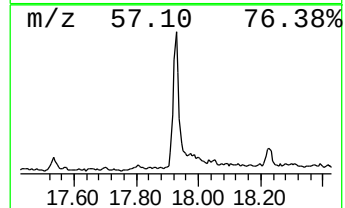
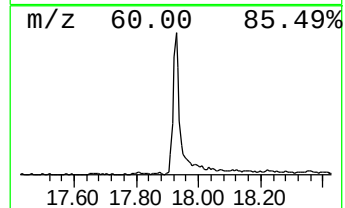
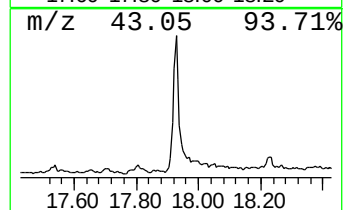
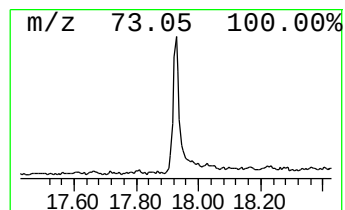
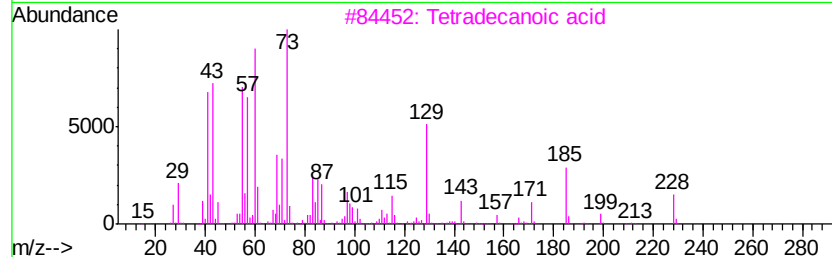
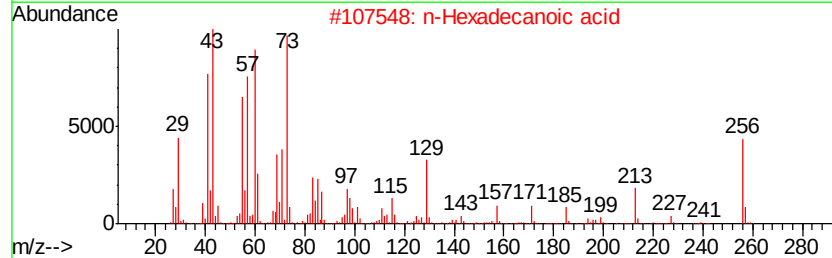
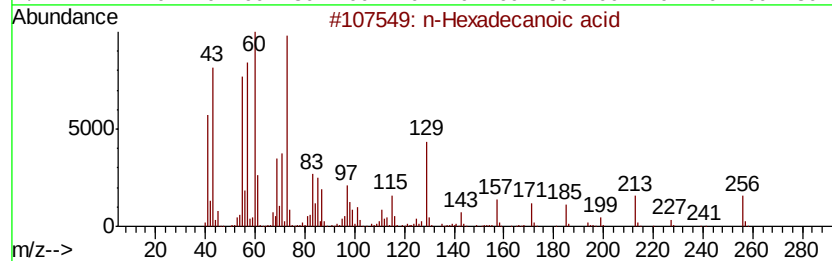
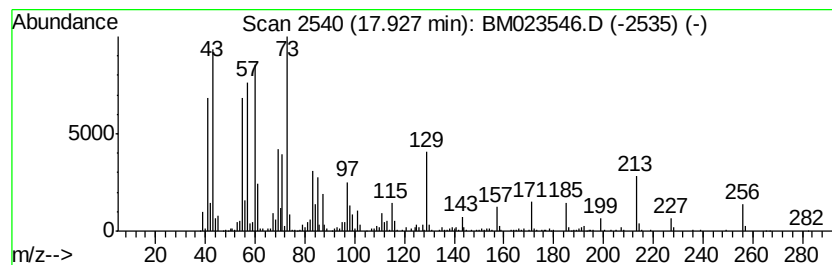
Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 n-Hexadecanoic acid Concentration Rank 14

| R.T.    | EstConc    | Area                | Relative to ISTD |          | R.T.        |      |
|---------|------------|---------------------|------------------|----------|-------------|------|
| 17.93   | 2.79 ng/ul | 867176              | Phenanthrene-d10 |          | 17.00       |      |
| Hit# of | 5          | Tentative ID        | MW               | MolForm  | CAS#        | Qual |
| 1       |            | n-Hexadecanoic acid | 256              | C16H32O2 | 000057-10-3 | 99   |
| 2       |            | n-Hexadecanoic acid | 256              | C16H32O2 | 000057-10-3 | 98   |
| 3       |            | Tetradecanoic acid  | 228              | C14H28O2 | 000544-63-8 | 91   |
| 4       |            | Pentadecanoic acid  | 242              | C15H30O2 | 001002-84-2 | 87   |
| 5       |            | Tetradecanoic acid  | 228              | C14H28O2 | 000544-63-8 | 81   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

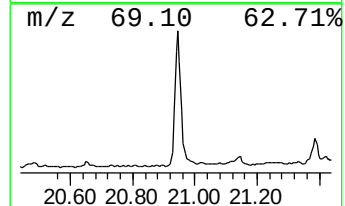
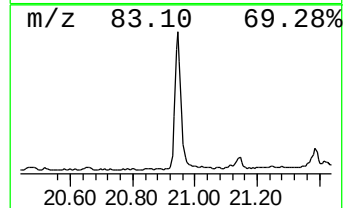
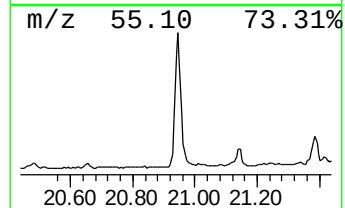
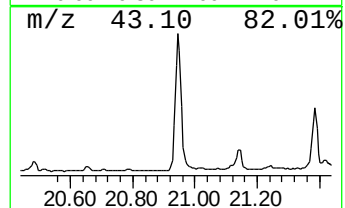
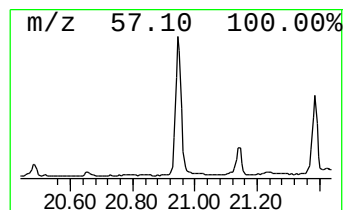
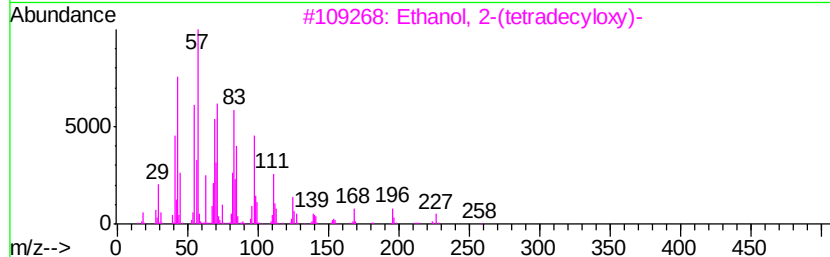
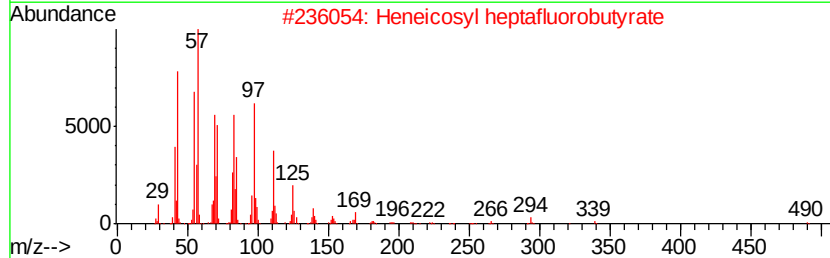
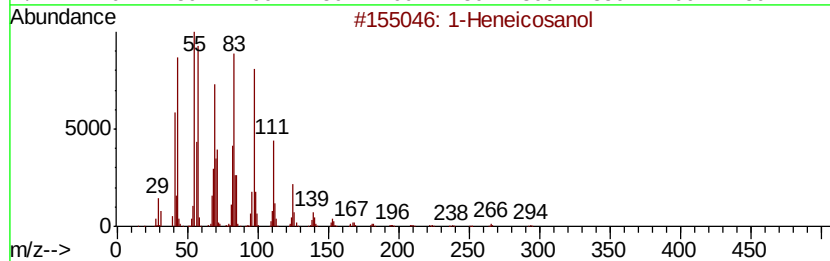
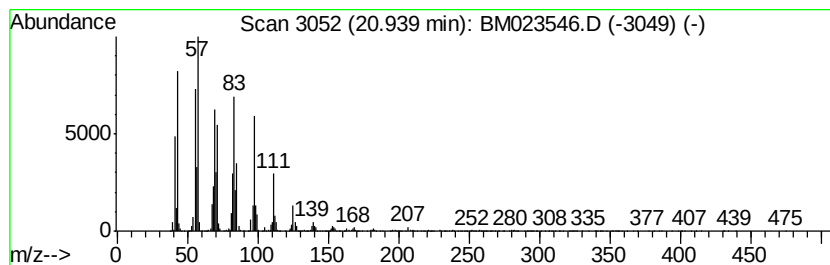
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 1-Heneicosanol Concentration Rank 8

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 20.94 | 12.15 ng/ul | 4189290 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID                   | MW  | MolForm    | CAS#         | Qual |
|------|----|--------------------------------|-----|------------|--------------|------|
| 1    | 5  | 1-Heneicosanol                 | 312 | C21H44O    | 015594-90-8  | 92   |
| 2    |    | Heneicosyl heptafluorobutyrate | 508 | C25H43F7O2 | 1000351-83-8 | 91   |
| 3    |    | Ethanol, 2-(tetradecyloxy)-    | 258 | C16H34O2   | 002136-70-1  | 91   |
| 4    |    | Tricosyl heptafluorobutyrate   | 536 | C27H47F7O2 | 1000351-83-4 | 91   |
| 5    |    | Docosyl pentafluoropropionate  | 472 | C25H45F5O2 | 1000351-80-9 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

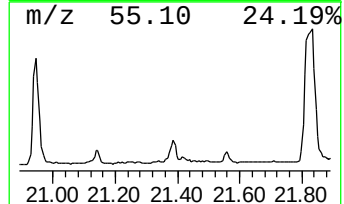
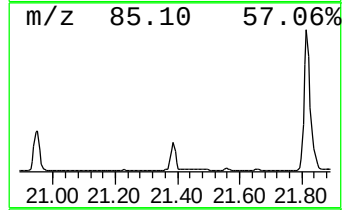
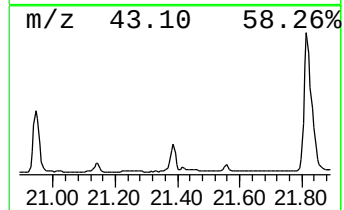
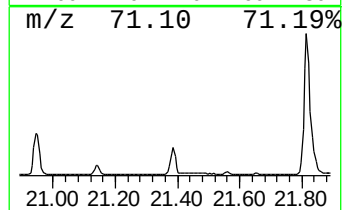
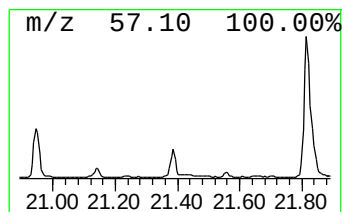
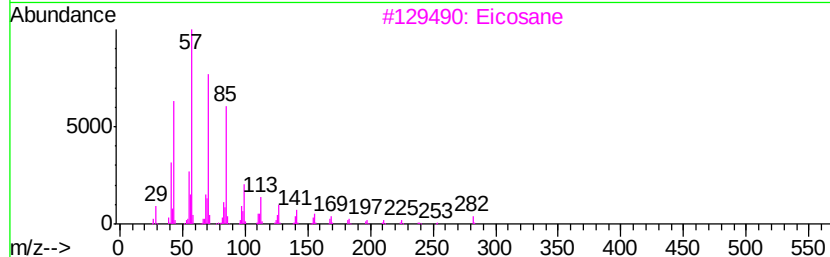
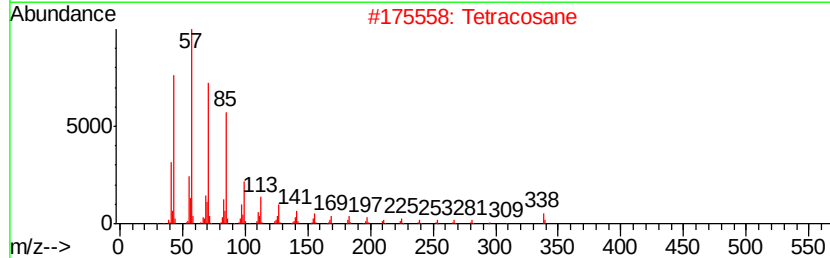
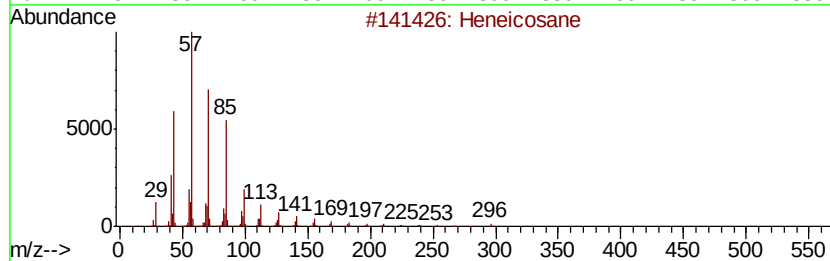
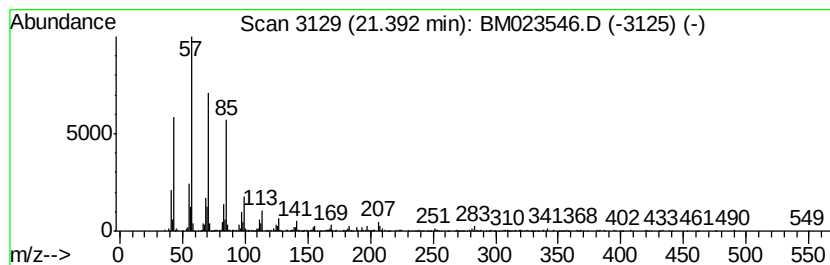
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.39 | 2.61 ng/ul | 898557 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID     | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------|-----|----------|-------------|------|
| 1    | 5  | Heneicosane      | 296 | C21H44   | 000629-94-7 | 98   |
| 2    |    | Tetracosane      | 338 | C24H50   | 000646-31-1 | 96   |
| 3    |    | Eicosane         | 282 | C20H42   | 000112-95-8 | 96   |
| 4    |    | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 95   |
| 5    |    | Tetracosane      | 338 | C24H50   | 000646-31-1 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

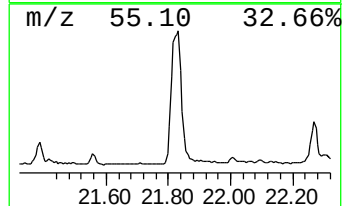
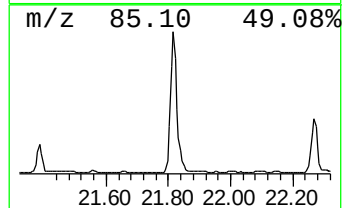
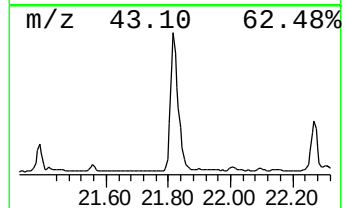
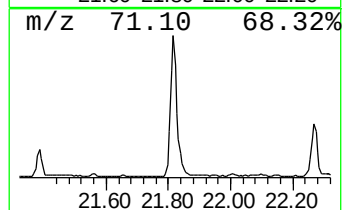
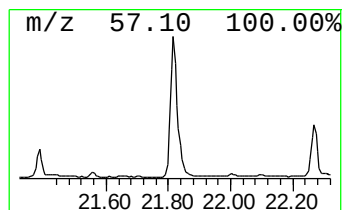
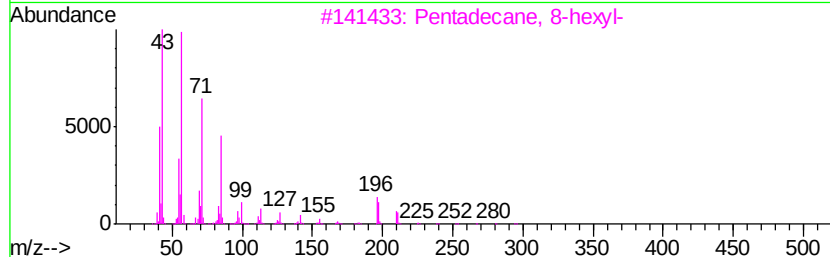
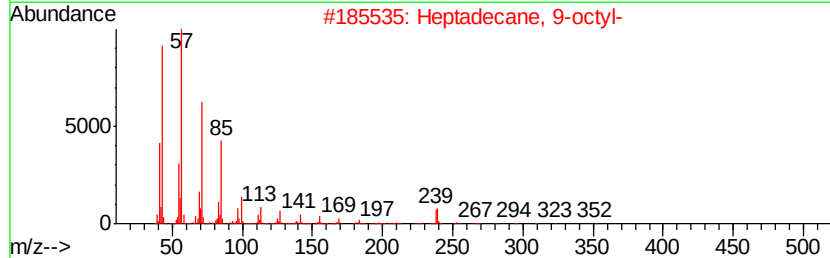
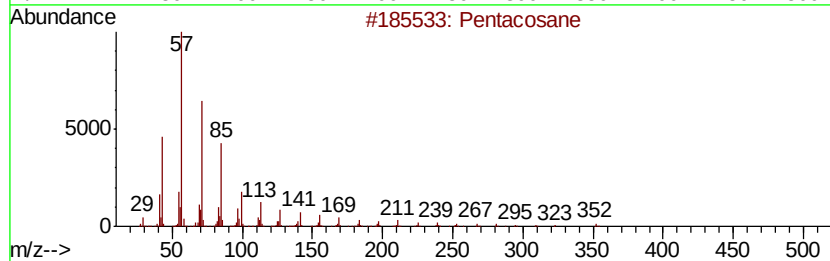
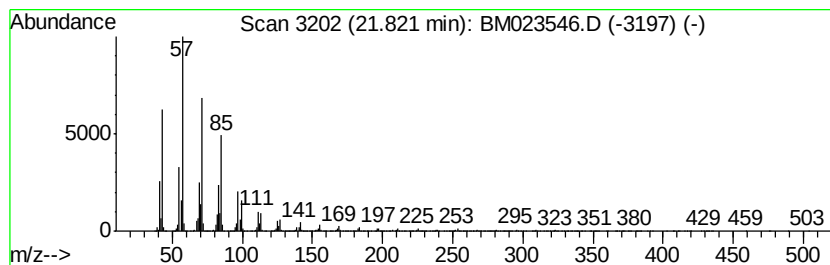
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 21.82 | 29.25 ng/ul | 10084000 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------|-----|---------|--------------|------|
| 1    | 5  | Pentacosane           | 352 | C25H52  | 000629-99-2  | 95   |
| 2    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1  | 94   |
| 3    |    | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7  | 94   |
| 4    |    | Octacosane            | 394 | C28H58  | 000630-02-4  | 91   |
| 5    |    | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 91   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

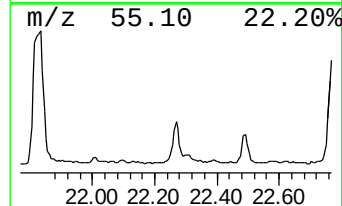
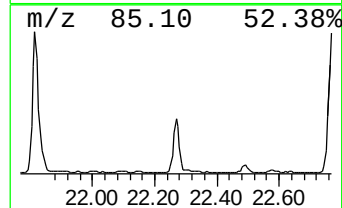
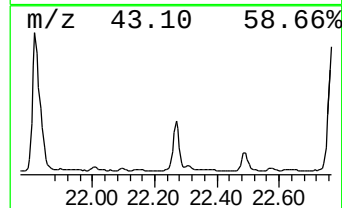
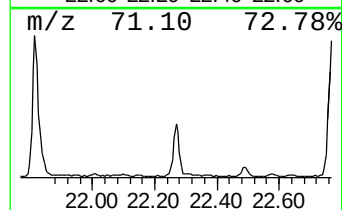
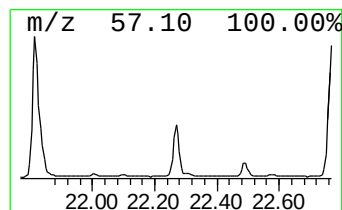
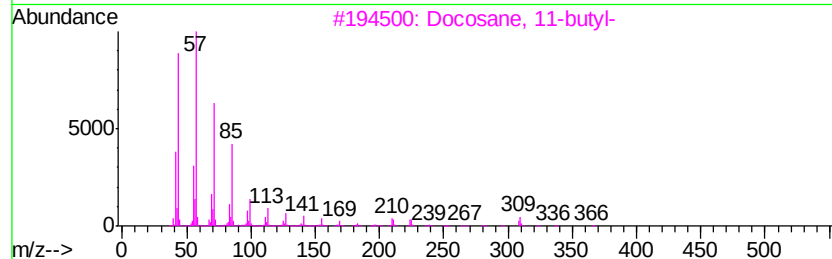
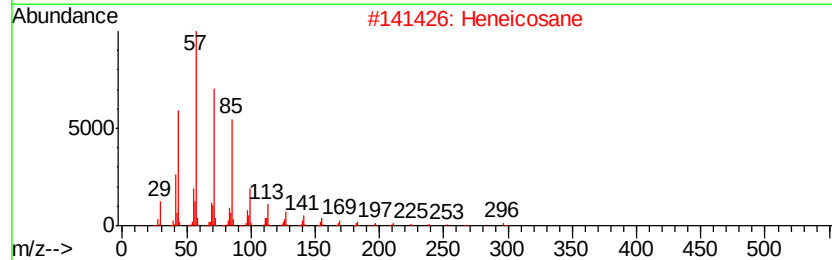
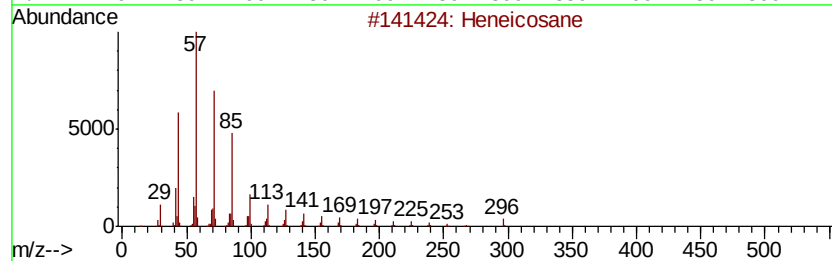
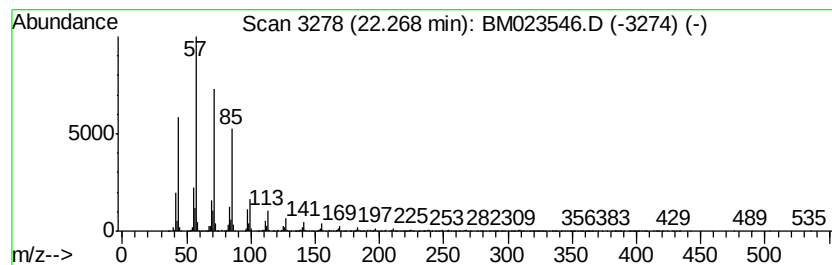
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 22.27 | 6.68 ng/ul | 2302790 | Chrysene-d12     | 21.20 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane             | 296 | C21H44  | 000629-94-7 | 97   |
| 2    |    | Heneicosane             | 296 | C21H44  | 000629-94-7 | 97   |
| 3    |    | Docosane, 11-butyl-     | 366 | C26H54  | 013475-76-8 | 95   |
| 4    |    | Pentadecane, 8-hexyl-   | 296 | C21H44  | 013475-75-7 | 94   |
| 5    |    | 1-Iodo-2-methylundecane | 296 | C12H25I | 073105-67-6 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

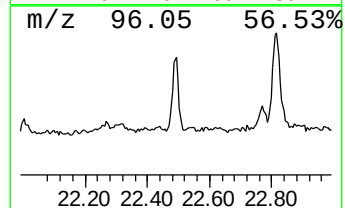
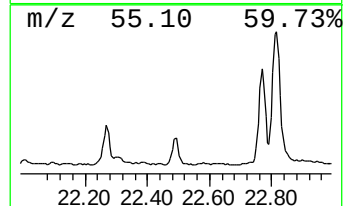
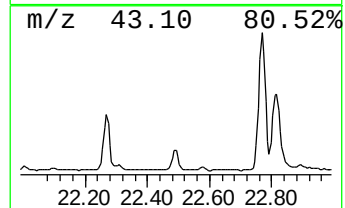
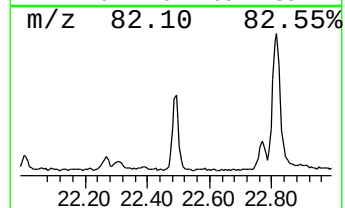
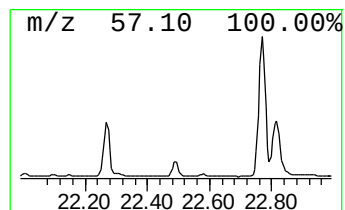
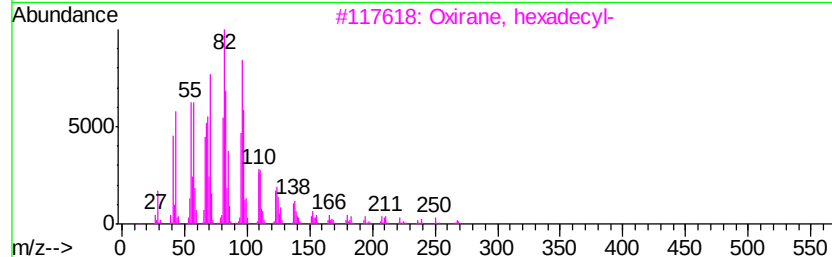
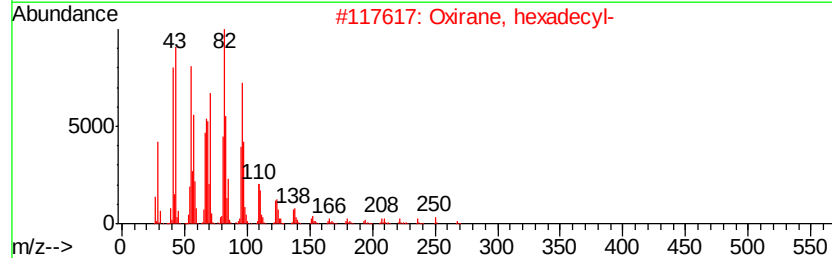
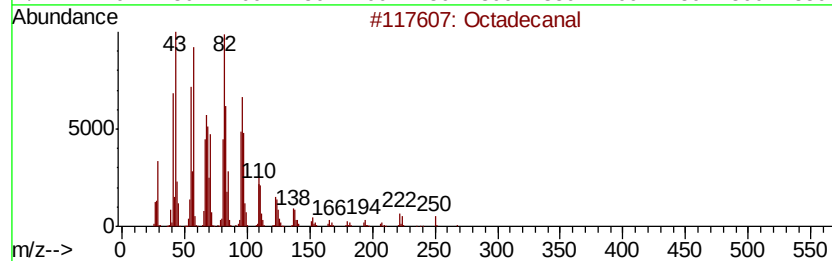
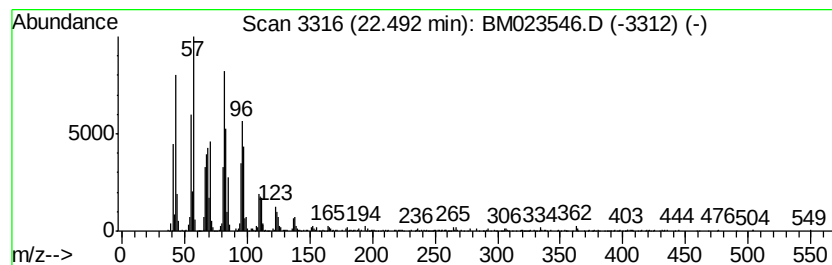
Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 Octadecanal Concentration Rank 13

| R.T.    | EstConc              | Area         | Relative to ISTD | R.T.      |
|---------|----------------------|--------------|------------------|-----------|
| 22.49   | 3.59 ng/ul           | 1444240      | Perylene-d12     | 23.40     |
| Hit# of | 5                    | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Octadecanal          | 268 C18H36O  | 000638-66-4      | 97        |
| 2       | Oxirane, hexadecyl-  | 268 C18H36O  | 007390-81-0      | 91        |
| 3       | Oxirane, hexadecyl-  | 268 C18H36O  | 007390-81-0      | 91        |
| 4       | Octadecanal          | 268 C18H36O  | 000638-66-4      | 91        |
| 5       | Oxirane, heptadecyl- | 282 C19H38O  | 067860-04-2      | 91        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

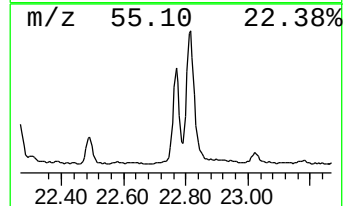
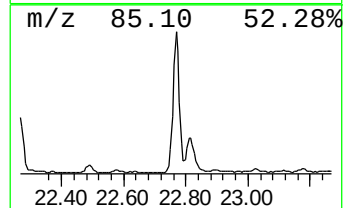
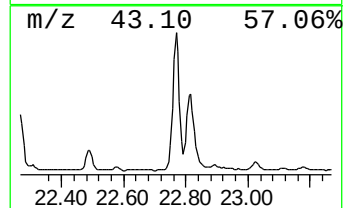
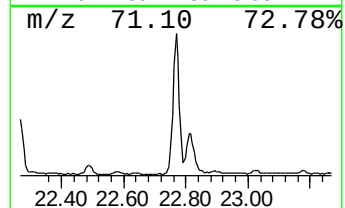
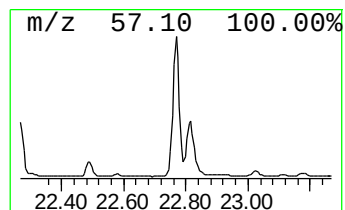
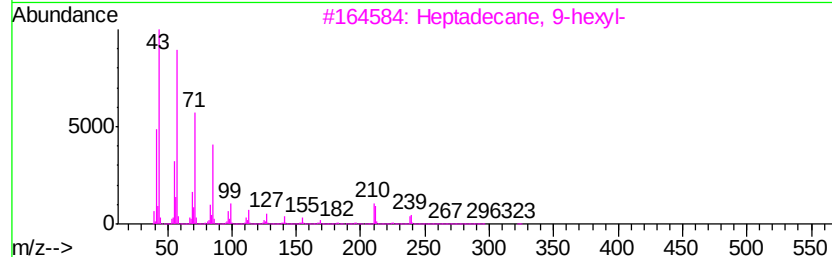
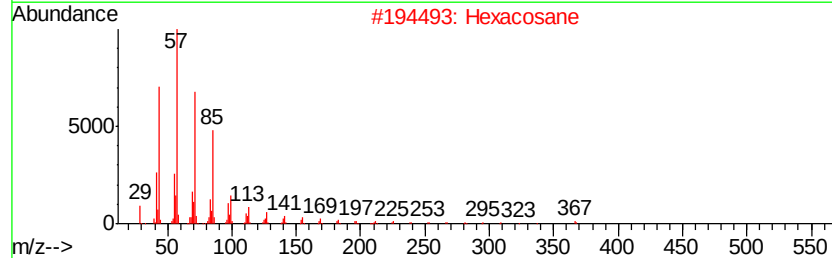
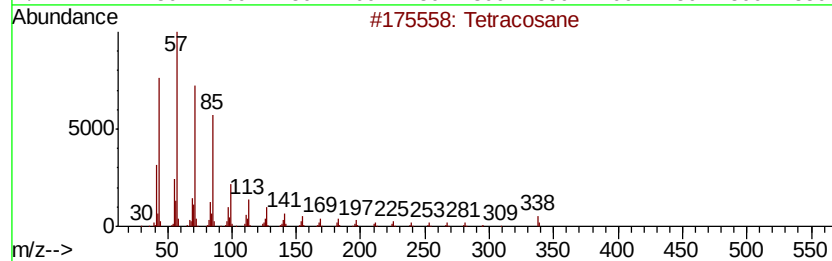
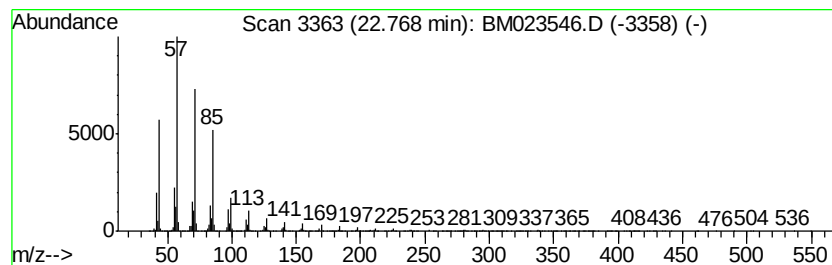
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 22.77 | 16.91 ng/ul | 6809790 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Tetracosane           | 338 | C24H50  | 000646-31-1 | 97   |
| 2    |    | Hexacosane            | 366 | C26H54  | 000630-01-3 | 94   |
| 3    |    | Heptadecane, 9-hexyl- | 324 | C23H48  | 055124-79-3 | 94   |
| 4    |    | Tetratetracontane     | 619 | C44H90  | 007098-22-8 | 91   |
| 5    |    | Heptacosane           | 380 | C27H56  | 000593-49-7 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

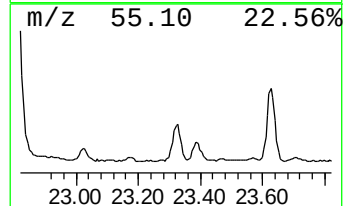
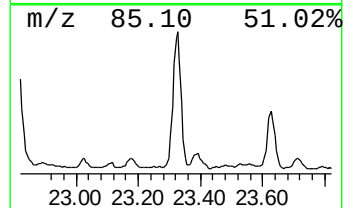
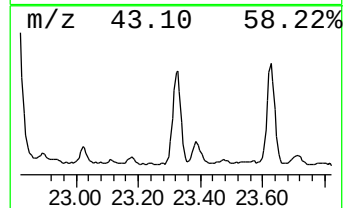
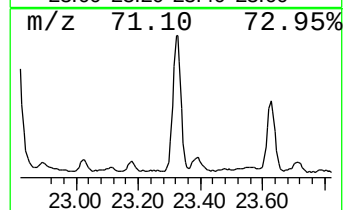
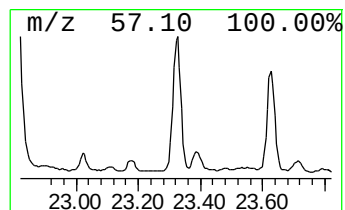
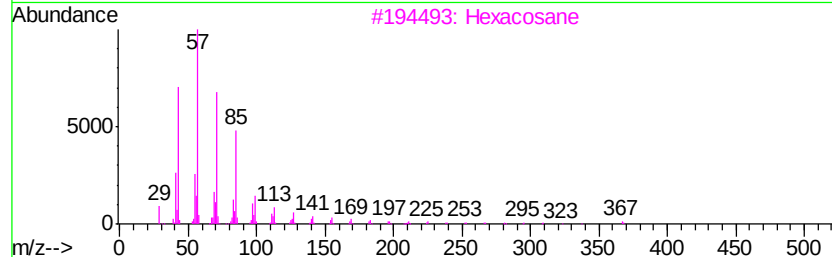
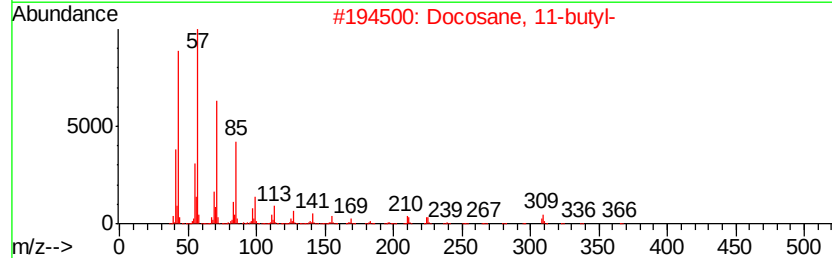
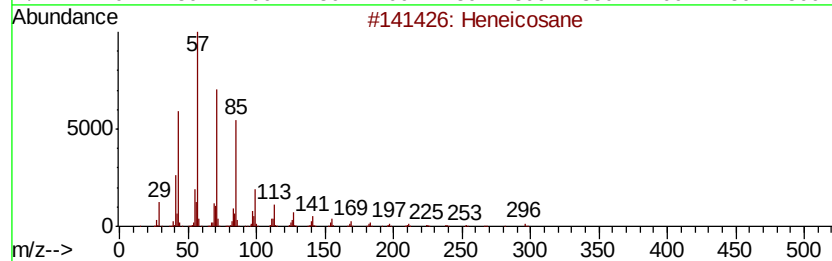
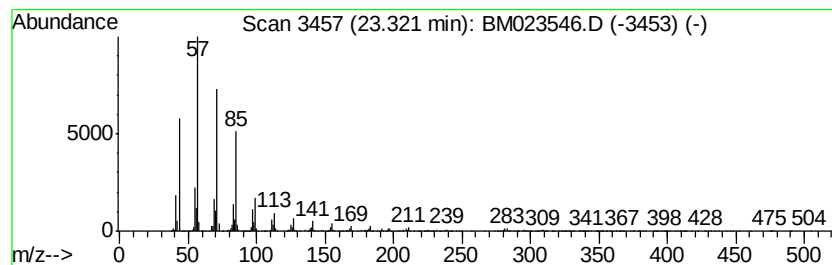
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 12

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 23.32 | 6.30 ng/ul | 2537470 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#         | Qual |
|------|----|---------------------|-----|---------|--------------|------|
| 1    | 5  | Heneicosane         | 296 | C21H44  | 000629-94-7  | 97   |
| 2    |    | Docosane, 11-butyl- | 366 | C26H54  | 013475-76-8  | 95   |
| 3    |    | Hexacosane          | 366 | C26H54  | 000630-01-3  | 93   |
| 4    |    | Tetratetracontane   | 619 | C44H90  | 007098-22-8  | 91   |
| 5    |    | 2-methyloctacosane  | 408 | C29H60  | 1000376-72-8 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

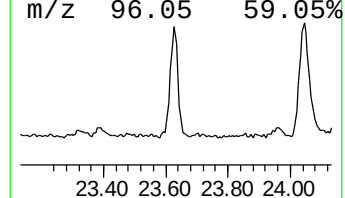
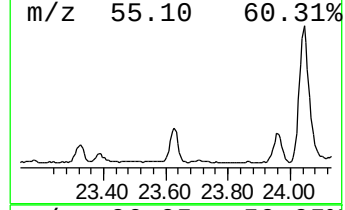
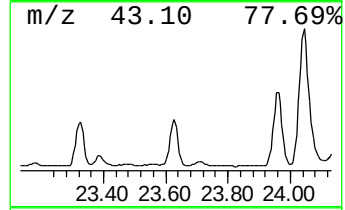
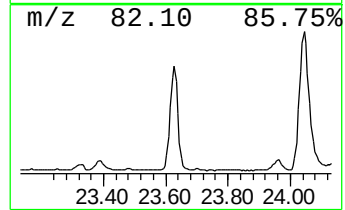
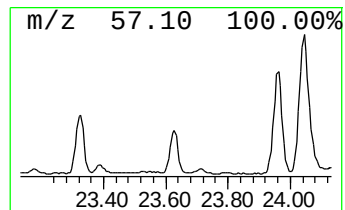
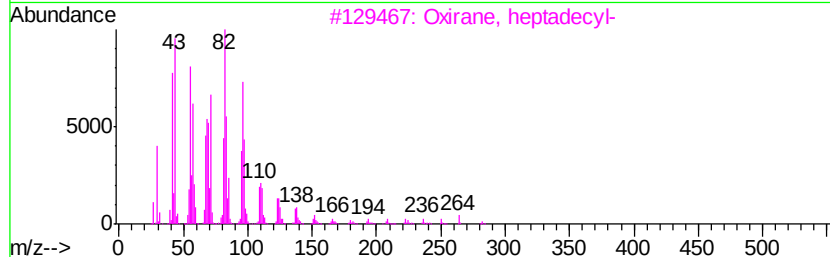
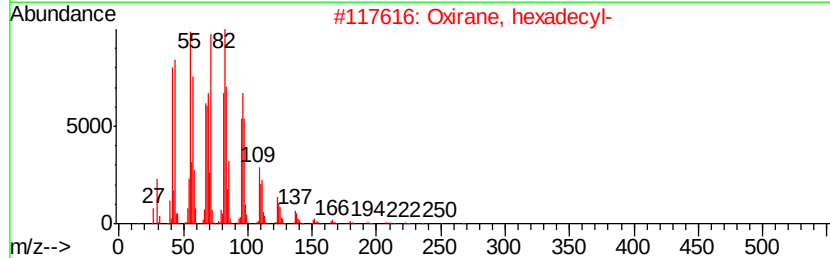
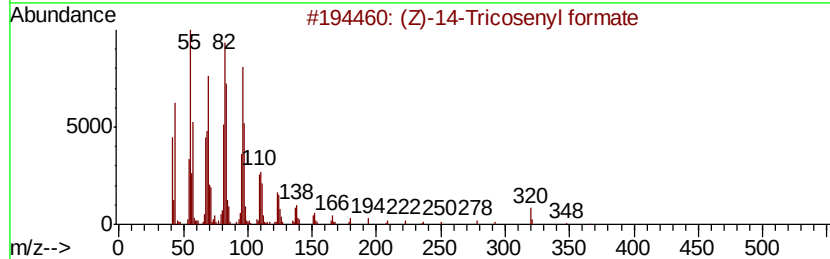
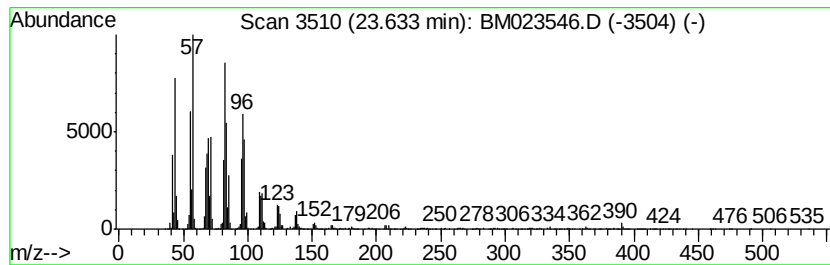
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 (Z)-14-Tricosenyl formate Concentration Rank 10

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 23.63 | 10.21 ng/ul | 4109290 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID              | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------|-----|----------|-------------|------|
| 1    | 5  | (Z)-14-Tricosenyl formate | 366 | C24H46O2 | 077899-10-6 | 93   |
| 2    |    | Oxirane, hexadecyl-       | 268 | C18H36O  | 007390-81-0 | 91   |
| 3    |    | Oxirane, heptadecyl-      | 282 | C19H38O  | 067860-04-2 | 91   |
| 4    |    | 1,19-Eicosadiene          | 278 | C20H38   | 014811-95-1 | 90   |
| 5    |    | Oxirane, hexadecyl-       | 268 | C18H36O  | 007390-81-0 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

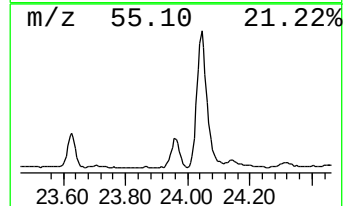
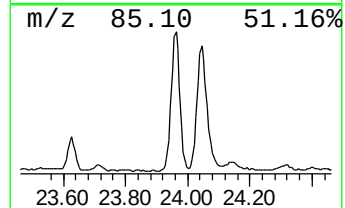
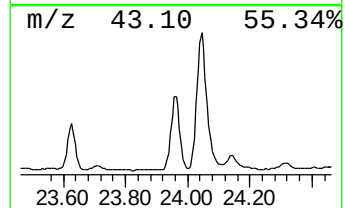
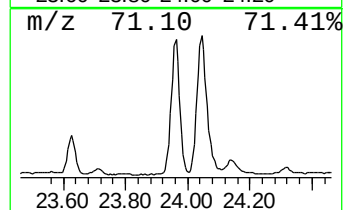
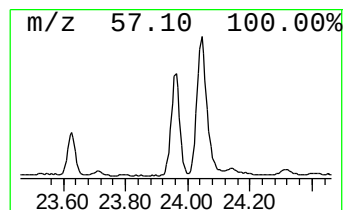
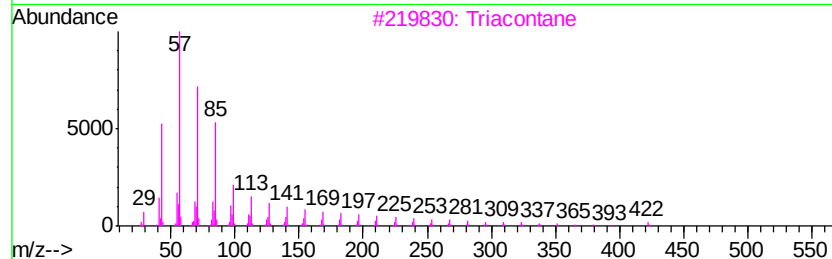
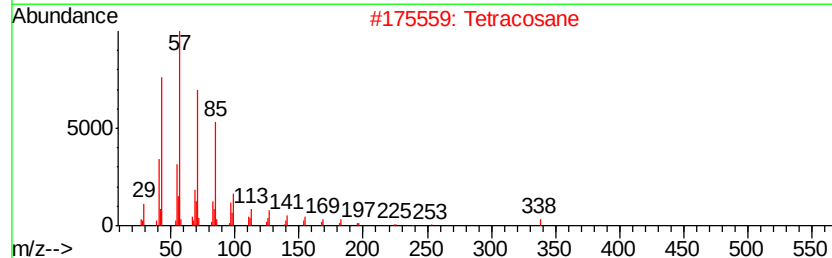
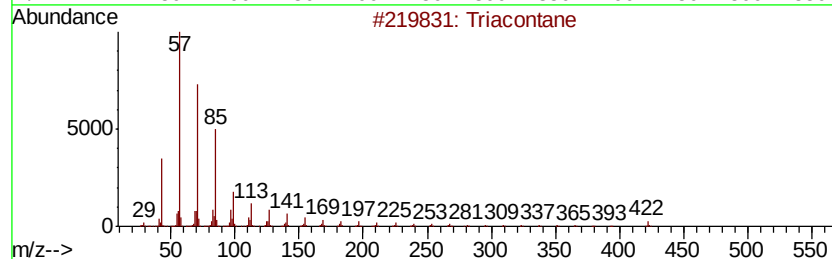
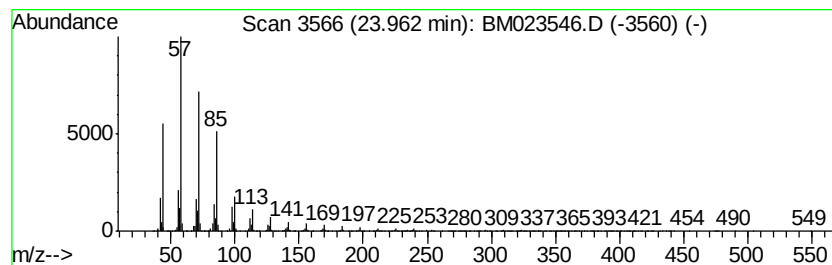
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 9

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 23.96 | 12.01 ng/ul | 4835900 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Triacontane           | 422 | C30H62  | 000638-68-6 | 98   |
| 2    |    | Tetracosane           | 338 | C24H50  | 000646-31-1 | 98   |
| 3    |    | Triacontane           | 422 | C30H62  | 000638-68-6 | 95   |
| 4    |    | Hexacosane            | 366 | C26H54  | 000630-01-3 | 94   |
| 5    |    | Heptadecane, 9-hexyl- | 324 | C23H48  | 055124-79-3 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

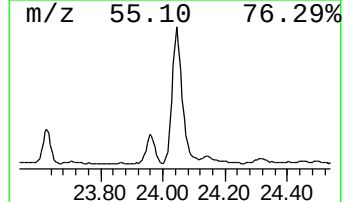
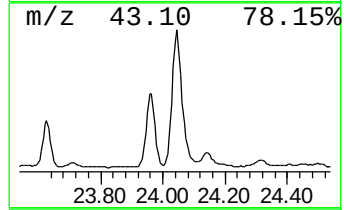
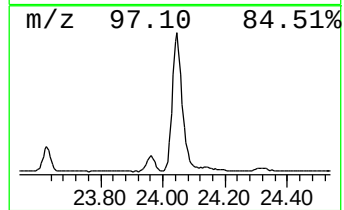
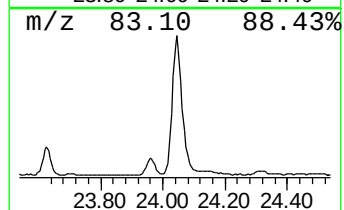
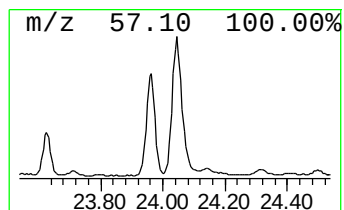
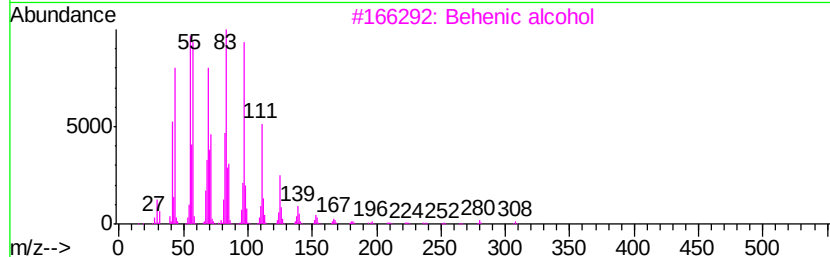
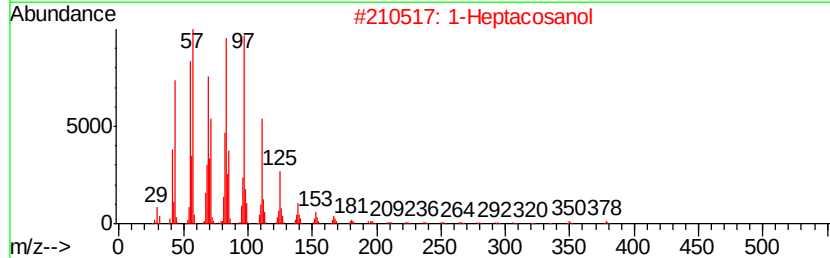
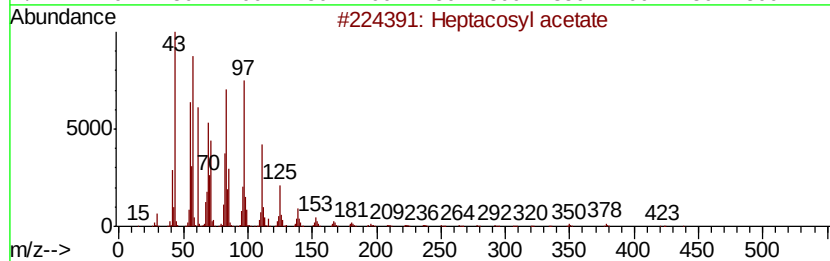
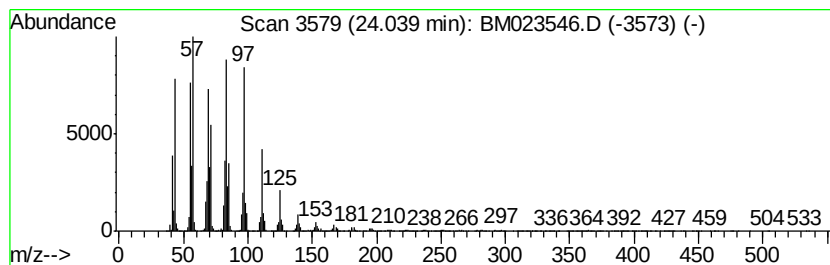
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Heptacosyl acetate Concentration Rank 1

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 24.04 | 40.45 ng/ul | 16286500 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID       | MW  | MolForm  | CAS#         | Qual |
|------|----|--------------------|-----|----------|--------------|------|
| 1    | 5  | Heptacosyl acetate | 438 | C29H58O2 | 1000351-78-2 | 97   |
| 2    |    | 1-Heptacosanol     | 396 | C27H56O  | 002004-39-9  | 95   |
| 3    |    | Behenic alcohol    | 326 | C22H46O  | 000661-19-8  | 94   |
| 4    |    | Octacosyl acetate  | 452 | C30H60O2 | 018206-97-8  | 94   |
| 5    |    | Octacosanol        | 410 | C28H58O  | 000557-61-9  | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

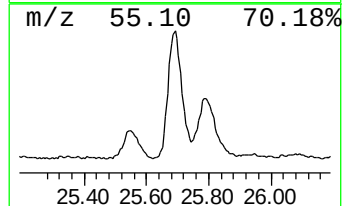
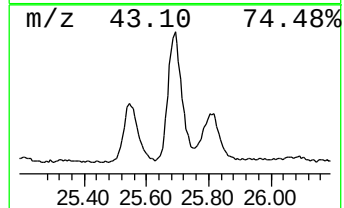
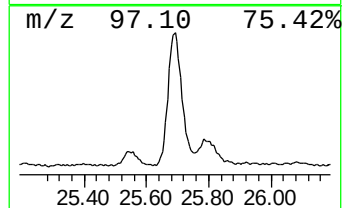
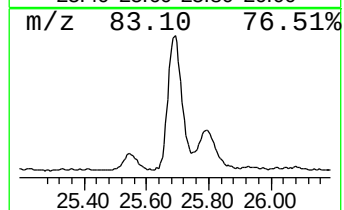
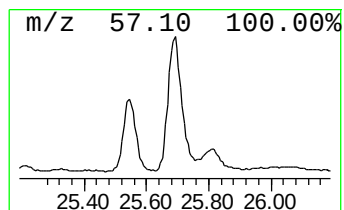
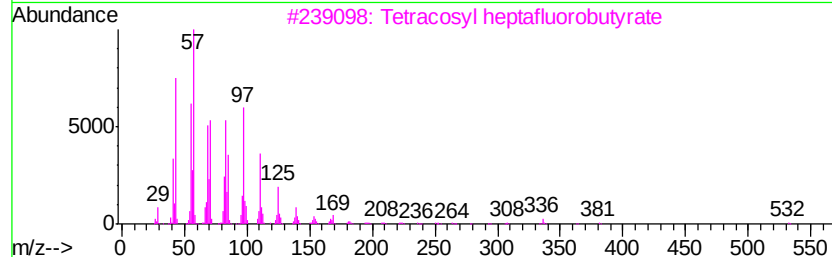
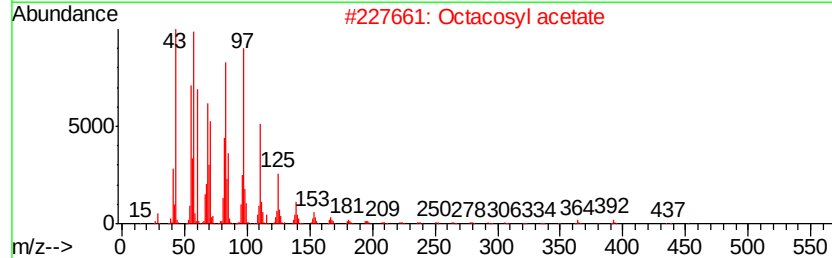
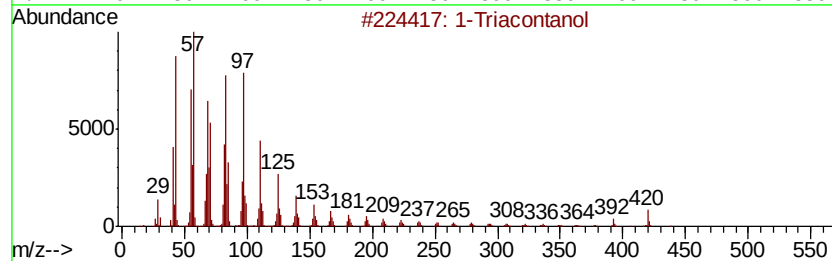
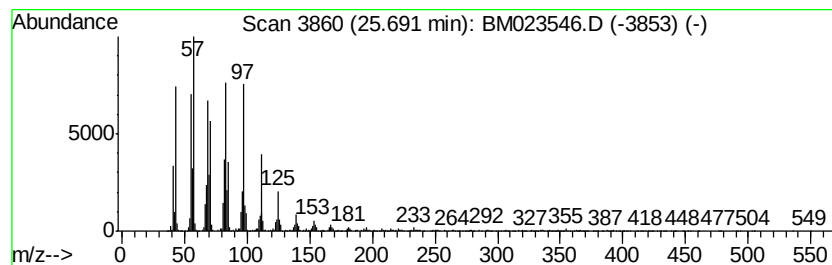
Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 13 1-Triacontanol Concentration Rank 7

| R.T.    | EstConc     | Area                           | Relative to ISTD | R.T.            |
|---------|-------------|--------------------------------|------------------|-----------------|
| 25.69   | 14.80 ng/ul | 5959890                        | Perylene-d12     | 23.40           |
| Hit# of | 5           | Tentative ID                   | MW MolForm       | CAS# Qual       |
| 1       |             | 1-Triacontanol                 | 438 C30H62O      | 000593-50-0 94  |
| 2       |             | Octacosyl acetate              | 452 C30H60O2     | 018206-97-8 94  |
| 3       |             | Tetracosyl heptafluorobutvrate | 550 C28H49F7O2   | 1000351-83-7 94 |
| 4       |             | Triacontyl acetate             | 480 C32H64O2     | 041755-58-2 94  |
| 5       |             | Octacosanol                    | 410 C28H58O      | 000557-61-9 94  |





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

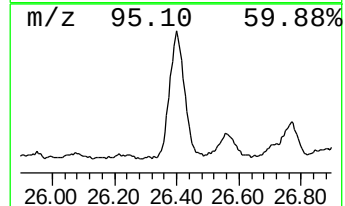
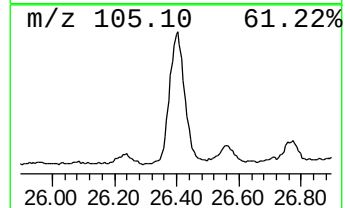
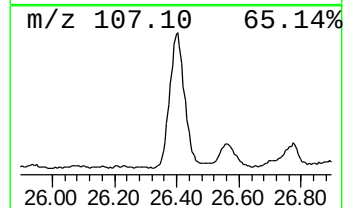
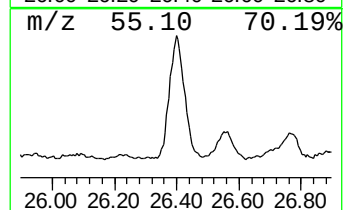
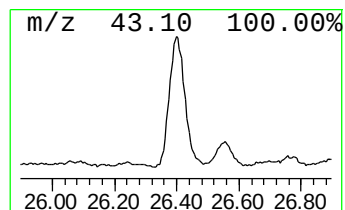
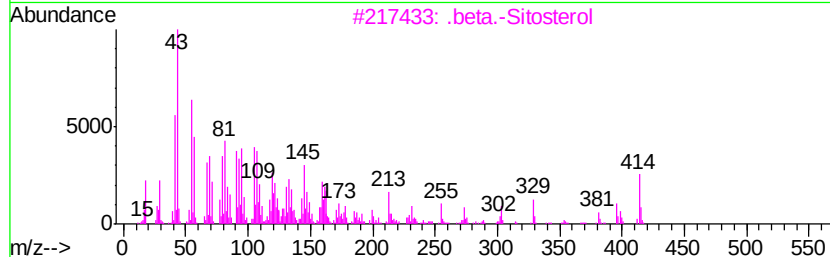
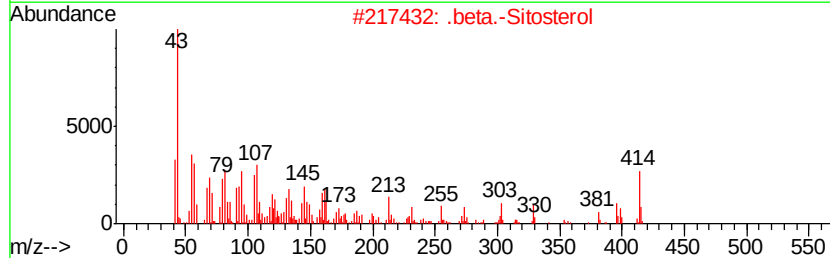
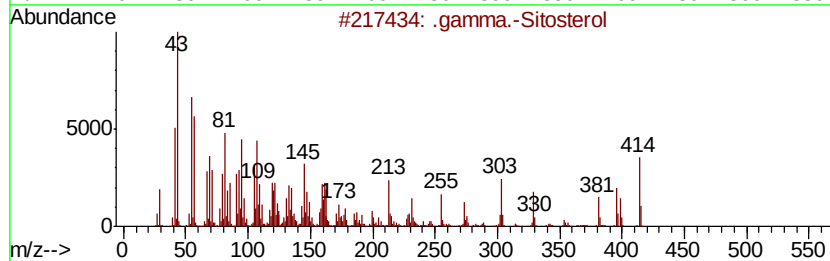
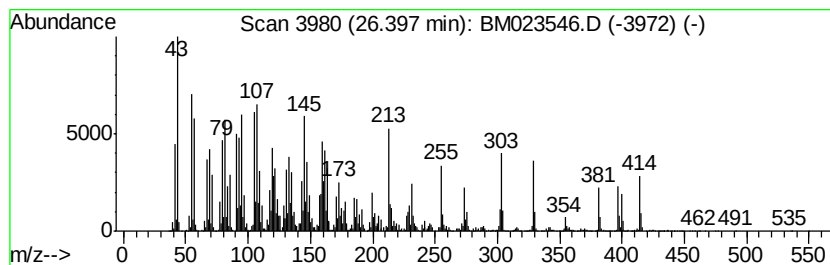
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 .gamma.-Sitosterol Concentration Rank 2

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 26.40 | 34.65 ng/ul | 13952300 | Perylene-d12     | 23.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | .gamma.-Sitosterol                  | 414 | C29H50O  | 000083-47-6  | 99   |
| 2    |    | .beta.-Sitosterol                   | 414 | C29H50O  | 000083-46-5  | 90   |
| 3    |    | .beta.-Sitosterol                   | 414 | C29H50O  | 000083-46-5  | 72   |
| 4    |    | 17-(1,5-Dimethylhexyl)-10,13-dim... | 414 | C29H50O  | 1000210-86-9 | 25   |
| 5    |    | 22,26-Oxido-4,17-cholestadien-3.... | 414 | C27H42O3 | 1000252-80-4 | 11   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM103119\  
Data File : BM023546.D  
Acq On : 01 Nov 2019 07:03  
Operator : JU  
Sample : K5433-14  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

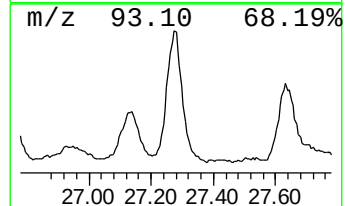
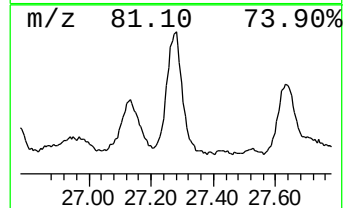
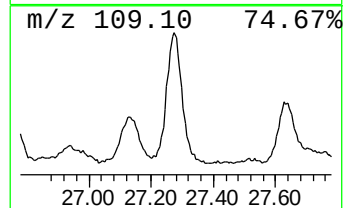
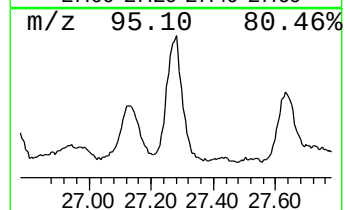
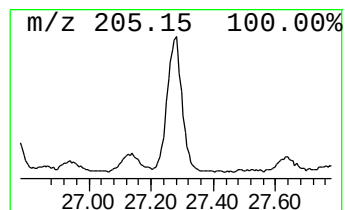
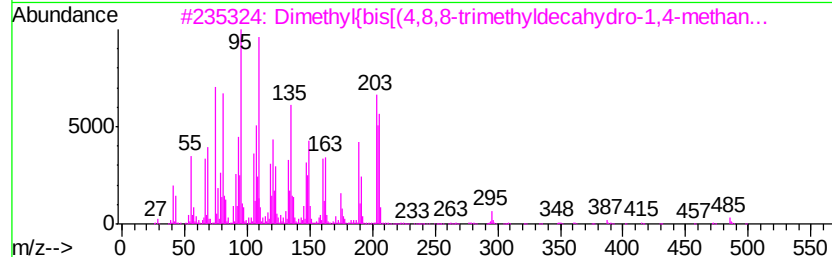
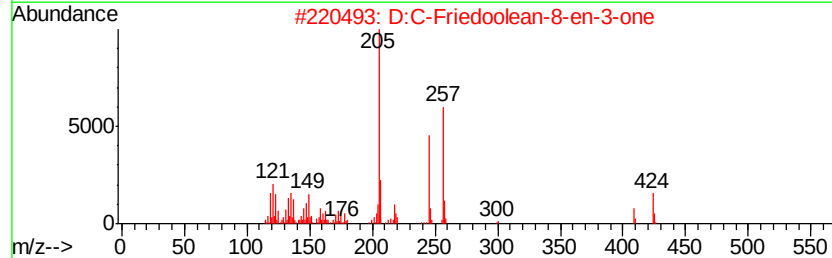
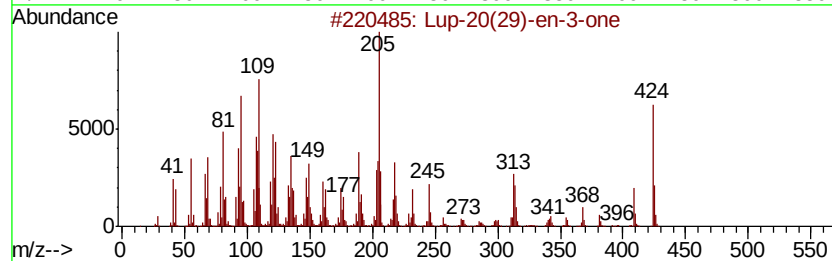
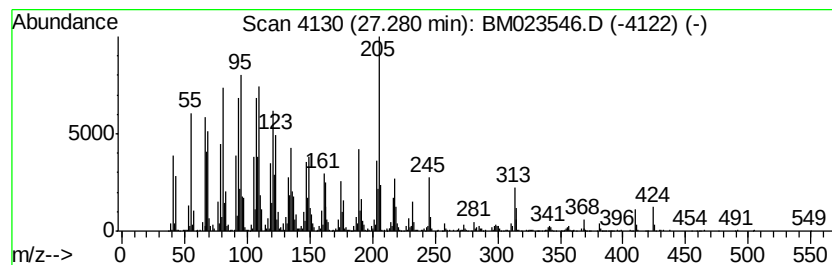
Instrument :  
BNA\_M  
ClientSampleId :  
JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 Lup-20(29)-en-3-one Concentration Rank 4

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 27.28   | 21.82 ng/ul                         | 8786850      | Perylene-d12     | 23.40        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | Lup-20(29)-en-3-one                 | 424          | C30H48O          | 001617-70-5  | 70   |      |
| 2       | D:C-Friedoolean-8-en-3-one          | 424          | C30H48O          | 022611-26-3  | 64   |      |
| 3       | Dimethylbis(4,8,8-trimethyldec...   | 500          | C32H56O2Si       | 1000364-69-0 | 50   |      |
| 4       | 9,19-Cyclolanost-23-ene-3,25-dio... | 442          | C30H50O2         | 054482-57-4  | 50   |      |
| 5       | 1,1,4a,6-Tetramethyl-5-(phenylth... | 314          | C21H30S          | 155191-62-1  | 35   |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM103119\  
 Data File : BM023546.D  
 Acq On : 01 Nov 2019 07:03  
 Operator : JU  
 Sample : K5433-14  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JLNG0

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102319MA.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  | 17.93 | 2.8     | ng/ul | 867176   | 4                       | 17.00 | 6224740 | 20.0 |
| 1-Heneicosanol       | 20.94 | 12.2    | ng/ul | 4189290  | 5                       | 21.20 | 6895750 | 20.0 |
| (DEL) Alkane: Str... | 21.39 | 2.6     | ng/ul | 898557   | 5                       | 21.20 | 6895750 | 20.0 |
| (DEL) Alkane: Str... | 21.82 | 29.3    | ng/ul | 10084000 | 5                       | 21.20 | 6895750 | 20.0 |
| (DEL) Alkane: Str... | 22.27 | 6.7     | ng/ul | 2302790  | 5                       | 21.20 | 6895750 | 20.0 |
| Octadecanal          | 22.49 | 3.6     | ng/ul | 1444240  | 6                       | 23.40 | 8053070 | 20.0 |
| (DEL) Alkane: Str... | 22.77 | 16.9    | ng/ul | 6809790  | 6                       | 23.40 | 8053070 | 20.0 |
| (DEL) Alkane: Str... | 23.32 | 6.3     | ng/ul | 2537470  | 6                       | 23.40 | 8053070 | 20.0 |
| (Z)-14-Tricosenyl... | 23.63 | 10.2    | ng/ul | 4109290  | 6                       | 23.40 | 8053070 | 20.0 |
| (DEL) Alkane: Str... | 23.96 | 12.0    | ng/ul | 4835900  | 6                       | 23.40 | 8053070 | 20.0 |
| Heptacosyl acetate   | 24.04 | 40.5    | ng/ul | 16286500 | 6                       | 23.40 | 8053070 | 20.0 |
| 1-Triacontanol       | 25.69 | 14.8    | ng/ul | 5959890  | 6                       | 23.40 | 8053070 | 20.0 |
| .gamma.-Sitosterol   | 26.40 | 34.6    | ng/ul | 13952300 | 6                       | 23.40 | 8053070 | 20.0 |
| Lup-20(29)-en-3-one  | 27.28 | 21.8    | ng/ul | 8786850  | 6                       | 23.40 | 8053070 | 20.0 |