

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120619\  
 Data File : BM024026.D  
 Acq On : 06 Dec 2019 21:04  
 Operator : JU  
 Sample : K6007-16  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0BM2

## 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-BM112719MA.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 3.034    | 22         | 25       | 34        | rVB   | 68662       | 110963     | 1.53%        | 0.121%     |
| 2      | 3.534    | 108        | 110      | 117       | rVB   | 16305       | 26222      | 0.36%        | 0.029%     |
| 3      | 3.652    | 125        | 130      | 138       | rVB   | 65894       | 121775     | 1.68%        | 0.133%     |
| 4      | 3.734    | 140        | 144      | 150       | rVB   | 41769       | 62213      | 0.86%        | 0.068%     |
| 5      | 4.634    | 294        | 297      | 304       | rBV   | 55512       | 94744      | 1.31%        | 0.103%     |
| 6      | 5.151    | 381        | 385      | 394       | rVB3  | 14239       | 27341      | 0.38%        | 0.030%     |
| 7      | 5.522    | 441        | 448      | 454       | rVB6  | 23520       | 48901      | 0.68%        | 0.053%     |
| 8      | 6.669    | 631        | 643      | 657       | rBV   | 1119387     | 1954781    | 27.03%       | 2.130%     |
| 9      | 6.828    | 664        | 670      | 685       | rVV   | 964774      | 1600338    | 22.13%       | 1.744%     |
| 10     | 7.010    | 695        | 701      | 714       | rVV   | 1241555     | 2080342    | 28.76%       | 2.267%     |
| 11     | 7.116    | 715        | 719      | 727       | rVB3  | 27708       | 57963      | 0.80%        | 0.063%     |
| 12     | 7.475    | 773        | 780      | 791       | rBV   | 1666667     | 2597187    | 35.91%       | 2.831%     |
| 13     | 7.569    | 791        | 796      | 801       | rVB3  | 14347       | 27888      | 0.39%        | 0.030%     |
| 14     | 8.192    | 896        | 902      | 915       | rBV   | 1207992     | 2012200    | 27.82%       | 2.193%     |
| 15     | 8.304    | 917        | 921      | 932       | rVV2  | 50985       | 112628     | 1.56%        | 0.123%     |
| 16     | 8.628    | 969        | 976      | 986       | rBV   | 1158449     | 1919793    | 26.54%       | 2.092%     |
| 17     | 8.710    | 986        | 990      | 998       | rVB2  | 32827       | 57801      | 0.80%        | 0.063%     |
| 18     | 8.810    | 1005       | 1007     | 1015      | rVB6  | 13300       | 23034      | 0.32%        | 0.025%     |
| 19     | 9.075    | 1045       | 1052     | 1058      | rBV2  | 25889       | 46866      | 0.65%        | 0.051%     |
| 20     | 9.345    | 1091       | 1098     | 1110      | rBV   | 944229      | 1583678    | 21.90%       | 1.726%     |
| 21     | 9.704    | 1154       | 1159     | 1172      | rVB10 | 12270       | 37836      | 0.52%        | 0.041%     |
| 22     | 9.881    | 1181       | 1189     | 1210      | rVV   | 1455804     | 2523573    | 34.89%       | 2.750%     |
| 23     | 10.122   | 1224       | 1230     | 1234      | rBV2  | 23422       | 39791      | 0.55%        | 0.043%     |
| 24     | 10.245   | 1241       | 1251     | 1258      | rBV   | 2353916     | 3823460    | 52.86%       | 4.167%     |
| 25     | 10.398   | 1268       | 1277     | 1300      | rBV   | 1001436     | 2037794    | 28.17%       | 2.221%     |
| 26     | 11.292   | 1424       | 1429     | 1435      | rBV   | 38480       | 73084      | 1.01%        | 0.080%     |
| 27     | 11.704   | 1491       | 1499     | 1505      | rVB   | 41079       | 71776      | 0.99%        | 0.078%     |
| 28     | 11.851   | 1519       | 1524     | 1528      | rBV2  | 29909       | 42546      | 0.59%        | 0.046%     |
| 29     | 11.928   | 1532       | 1537     | 1545      | rVB   | 35786       | 60476      | 0.84%        | 0.066%     |
| 30     | 12.151   | 1570       | 1575     | 1580      | rBV2  | 26352       | 44604      | 0.62%        | 0.049%     |
| 31     | 12.486   | 1624       | 1632     | 1636      | rBV8  | 12690       | 26031      | 0.36%        | 0.028%     |
| 32     | 12.680   | 1660       | 1665     | 1669      | rVV3  | 25788       | 39985      | 0.55%        | 0.044%     |
| 33     | 12.975   | 1710       | 1715     | 1720      | rBV2  | 63899       | 94231      | 1.30%        | 0.103%     |
| 34     | 13.292   | 1765       | 1769     | 1771      | rBV3  | 17416       | 22438      | 0.31%        | 0.024%     |

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 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |       |         |         |        |        |
|----|--------|------|------|------|-------|---------|---------|--------|--------|
| 35 | 13.463 | 1792 | 1798 | 1802 | rVV3  | 39441   | 77762   | 1.08%  | 0.085% |
| 36 | 13.510 | 1802 | 1806 | 1809 | rVV2  | 32880   | 43912   | 0.61%  | 0.048% |
| 37 | 13.557 | 1809 | 1814 | 1819 | rVV   | 2793268 | 3923278 | 54.24% | 4.276% |
| 38 | 13.604 | 1819 | 1822 | 1832 | rVV   | 930481  | 1329688 | 18.38% | 1.449% |
| 39 | 13.692 | 1832 | 1837 | 1842 | rVV5  | 28376   | 44843   | 0.62%  | 0.049% |
| 40 | 13.822 | 1853 | 1859 | 1872 | rBV   | 3197628 | 4826945 | 66.74% | 5.261% |
| 41 | 14.063 | 1892 | 1900 | 1904 | rBV2  | 71196   | 95941   | 1.33%  | 0.105% |
| 42 | 14.139 | 1904 | 1913 | 1920 | rBV   | 3441614 | 5234711 | 72.38% | 5.705% |
| 43 | 14.192 | 1920 | 1922 | 1925 | rVV3  | 21017   | 28503   | 0.39%  | 0.031% |
| 44 | 14.233 | 1927 | 1929 | 1933 | rVB5  | 19629   | 21829   | 0.30%  | 0.024% |
| 45 | 14.369 | 1945 | 1952 | 1972 | rBV   | 523525  | 1182452 | 16.35% | 1.289% |
| 46 | 14.545 | 1978 | 1982 | 1985 | rBV3  | 40904   | 64866   | 0.90%  | 0.071% |
| 47 | 14.580 | 1985 | 1988 | 1993 | rVV2  | 115308  | 168457  | 2.33%  | 0.184% |
| 48 | 14.621 | 1993 | 1995 | 2000 | rVB   | 38398   | 49705   | 0.69%  | 0.054% |
| 49 | 14.692 | 2003 | 2007 | 2013 | rVB5  | 22537   | 35115   | 0.49%  | 0.038% |
| 50 | 14.763 | 2015 | 2019 | 2025 | rBV4  | 35192   | 65678   | 0.91%  | 0.072% |
| 51 | 14.821 | 2025 | 2029 | 2033 | rVB2  | 34364   | 48146   | 0.67%  | 0.052% |
| 52 | 14.939 | 2042 | 2049 | 2052 | rBV2  | 32524   | 60912   | 0.84%  | 0.066% |
| 53 | 14.968 | 2052 | 2054 | 2059 | rVB4  | 15380   | 22366   | 0.31%  | 0.024% |
| 54 | 15.021 | 2059 | 2063 | 2068 | rVB   | 87371   | 108414  | 1.50%  | 0.118% |
| 55 | 15.086 | 2068 | 2074 | 2076 | rBV6  | 15832   | 26094   | 0.36%  | 0.028% |
| 56 | 15.139 | 2076 | 2083 | 2090 | rBV   | 4355126 | 6058453 | 83.77% | 6.603% |
| 57 | 15.280 | 2102 | 2107 | 2119 | rVV   | 1019270 | 1455887 | 20.13% | 1.587% |
| 58 | 15.374 | 2120 | 2123 | 2127 | rVB   | 45932   | 60994   | 0.84%  | 0.066% |
| 59 | 15.492 | 2138 | 2143 | 2146 | rBV3  | 31453   | 45503   | 0.63%  | 0.050% |
| 60 | 15.580 | 2154 | 2158 | 2161 | rBV3  | 29139   | 36821   | 0.51%  | 0.040% |
| 61 | 15.639 | 2161 | 2168 | 2175 | rVB10 | 26069   | 68010   | 0.94%  | 0.074% |
| 62 | 15.721 | 2177 | 2182 | 2188 | rBV7  | 19550   | 44049   | 0.61%  | 0.048% |
| 63 | 15.886 | 2204 | 2210 | 2213 | rBV2  | 113189  | 164055  | 2.27%  | 0.179% |
| 64 | 16.251 | 2269 | 2272 | 2277 | rVB4  | 32705   | 45097   | 0.62%  | 0.049% |
| 65 | 16.445 | 2300 | 2305 | 2308 | rBV6  | 33661   | 64792   | 0.90%  | 0.071% |
| 66 | 16.563 | 2320 | 2325 | 2330 | rBV5  | 45617   | 83209   | 1.15%  | 0.091% |
| 67 | 16.627 | 2332 | 2336 | 2341 | rBV5  | 34913   | 68793   | 0.95%  | 0.075% |
| 68 | 16.680 | 2341 | 2345 | 2350 | rBV   | 116960  | 145713  | 2.01%  | 0.159% |
| 69 | 16.892 | 2375 | 2381 | 2386 | rBV   | 4240749 | 5870473 | 81.17% | 6.398% |
| 70 | 16.933 | 2386 | 2388 | 2392 | rVV   | 141350  | 165051  | 2.28%  | 0.180% |
| 71 | 16.992 | 2392 | 2398 | 2411 | rVV   | 4299648 | 6259346 | 86.54% | 6.822% |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 17.092 | 2413 | 2415 | 2421 | rVB7 | 35480   | 62617   | 0.87%   | 0.068% |
| 73  | 17.304 | 2448 | 2451 | 2456 | rBV7 | 41955   | 72223   | 1.00%   | 0.079% |
| 74  | 17.421 | 2467 | 2471 | 2474 | rBV  | 78274   | 86570   | 1.20%   | 0.094% |
| 75  | 17.768 | 2526 | 2530 | 2533 | rBV2 | 75547   | 94079   | 1.30%   | 0.103% |
| 76  | 17.815 | 2533 | 2538 | 2548 | rBV2 | 561207  | 856514  | 11.84%  | 0.933% |
| 77  | 17.957 | 2558 | 2562 | 2566 | rVV  | 80123   | 120801  | 1.67%   | 0.132% |
| 78  | 17.998 | 2567 | 2569 | 2578 | rVB2 | 65098   | 93015   | 1.29%   | 0.101% |
| 79  | 18.115 | 2584 | 2589 | 2595 | rBV  | 96216   | 152581  | 2.11%   | 0.166% |
| 80  | 18.274 | 2614 | 2616 | 2622 | rVB2 | 56501   | 76845   | 1.06%   | 0.084% |
| 81  | 18.574 | 2665 | 2667 | 2671 | rBV  | 36113   | 43912   | 0.61%   | 0.048% |
| 82  | 18.698 | 2684 | 2688 | 2692 | rBV  | 103954  | 147200  | 2.04%   | 0.160% |
| 83  | 18.756 | 2694 | 2698 | 2702 | rVB  | 133814  | 162677  | 2.25%   | 0.177% |
| 84  | 18.933 | 2725 | 2728 | 2729 | rBV  | 40824   | 46029   | 0.64%   | 0.050% |
| 85  | 18.962 | 2729 | 2733 | 2741 | rVB2 | 250336  | 367667  | 5.08%   | 0.401% |
| 86  | 19.109 | 2755 | 2758 | 2765 | rBV2 | 153291  | 225676  | 3.12%   | 0.246% |
| 87  | 19.298 | 2784 | 2790 | 2805 | rVB  | 5017056 | 7232668 | 100.00% | 7.883% |
| 88  | 19.827 | 2878 | 2880 | 2885 | rVB3 | 99642   | 122279  | 1.69%   | 0.133% |
| 89  | 19.880 | 2886 | 2889 | 2895 | rVB  | 105576  | 109766  | 1.52%   | 0.120% |
| 90  | 20.256 | 2950 | 2953 | 2959 | rBV5 | 82128   | 134409  | 1.86%   | 0.146% |
| 91  | 20.380 | 2971 | 2974 | 2977 | rBV  | 92674   | 91054   | 1.26%   | 0.099% |
| 92  | 20.839 | 3048 | 3052 | 3059 | rBV  | 894606  | 1288134 | 17.81%  | 1.404% |
| 93  | 21.098 | 3091 | 3096 | 3101 | rBV  | 4110724 | 5356223 | 74.06%  | 5.838% |
| 94  | 21.280 | 3124 | 3127 | 3131 | rBV  | 223618  | 253991  | 3.51%   | 0.277% |
| 95  | 21.703 | 3195 | 3199 | 3208 | rBV3 | 387240  | 721351  | 9.97%   | 0.786% |
| 96  | 22.144 | 3271 | 3274 | 3280 | rVB  | 372931  | 464788  | 6.43%   | 0.507% |
| 97  | 22.621 | 3352 | 3355 | 3361 | rVB2 | 581171  | 817206  | 11.30%  | 0.891% |
| 98  | 23.103 | 3432 | 3437 | 3443 | rBV  | 3125507 | 5225755 | 72.25%  | 5.695% |
| 99  | 23.239 | 3454 | 3460 | 3476 | rVB  | 2764788 | 5059067 | 69.95%  | 5.514% |
| 100 | 23.768 | 3547 | 3550 | 3557 | rVB  | 429314  | 669213  | 9.25%   | 0.729% |

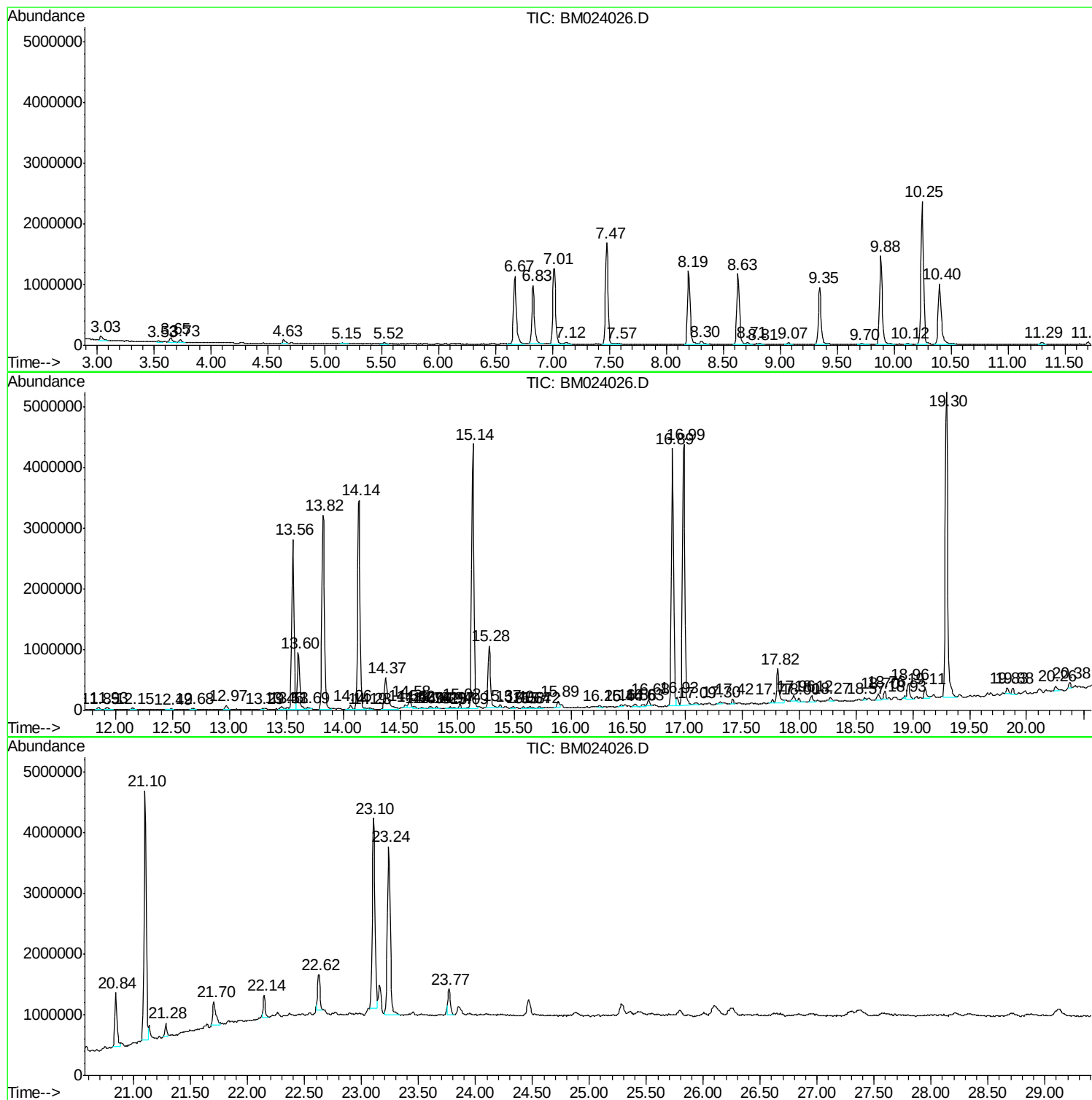
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.M  
Quant Title : SVOA CALIBRATION

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



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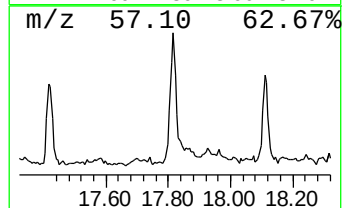
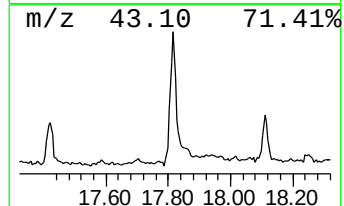
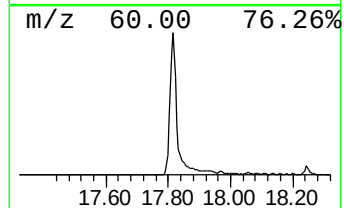
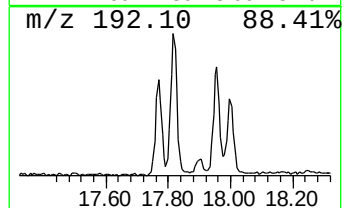
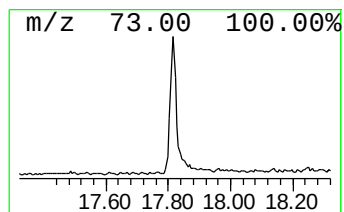
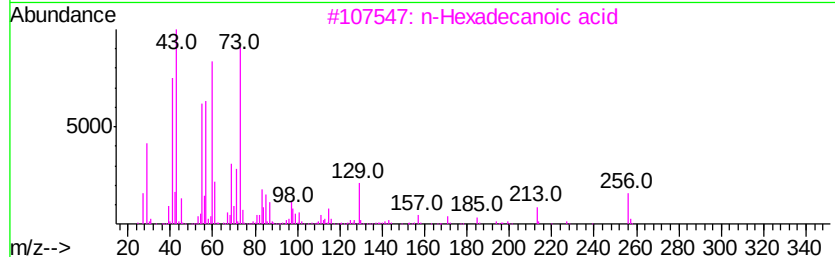
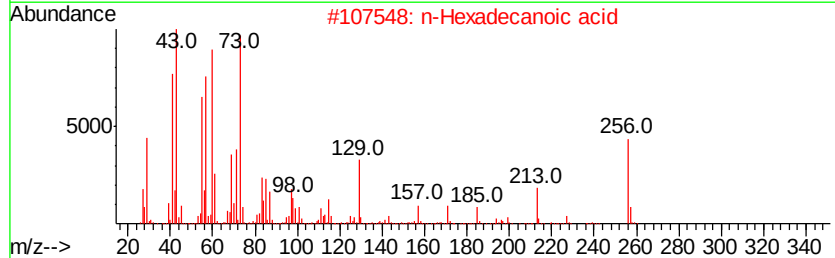
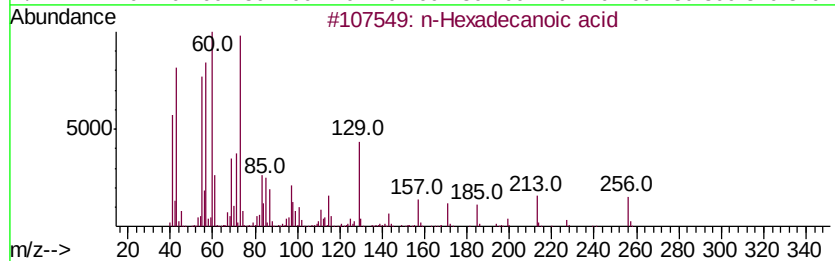
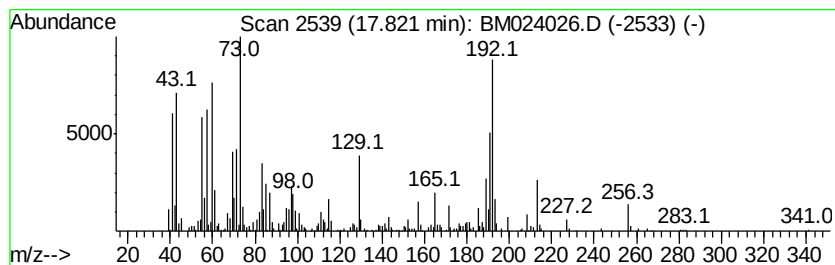
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 n-Hexadecanoic acid Concentration Rank 2

| R.T.    | EstConc             | Area         | Relative to ISTD | R.T.        |      |      |
|---------|---------------------|--------------|------------------|-------------|------|------|
| 17.82   | 2.92 ng/ul          | 856514       | Phenanthrene-d10 | 16.89       |      |      |
| 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 | 99   |      |
| 3       | n-Hexadecanoic acid | 256          | C16H32O2         | 000057-10-3 | 90   |      |
| 4       | Octadecanoic acid   | 284          | C18H36O2         | 000057-11-4 | 70   |      |
| 5       | n-Decanoic acid     | 172          | C10H20O2         | 000334-48-5 | 60   |      |



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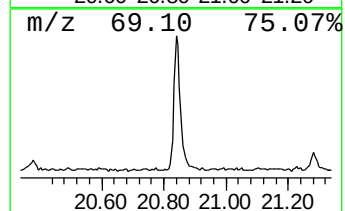
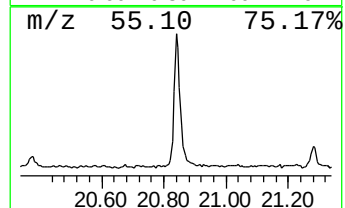
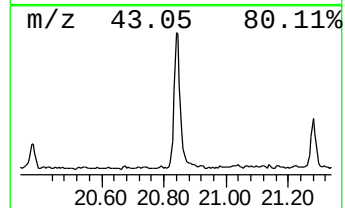
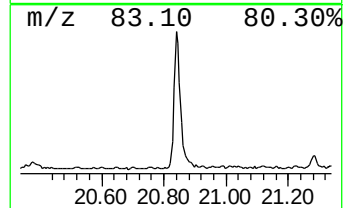
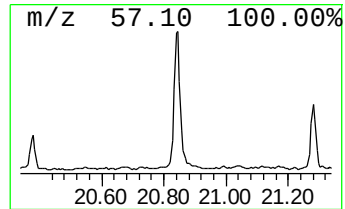
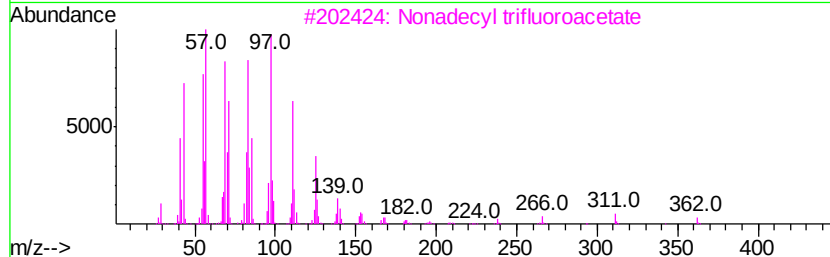
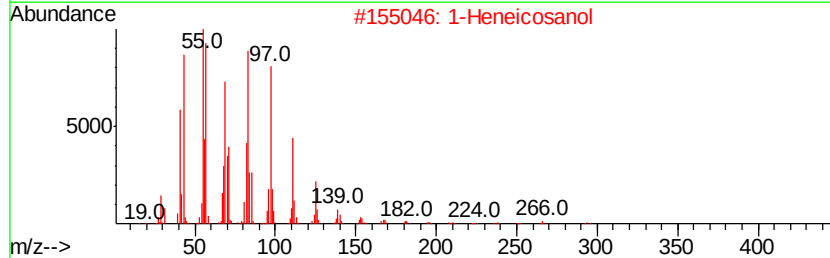
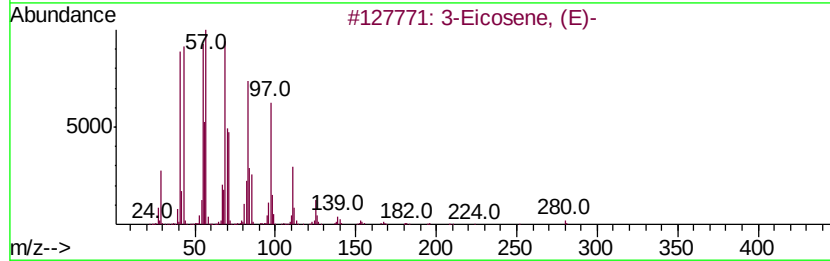
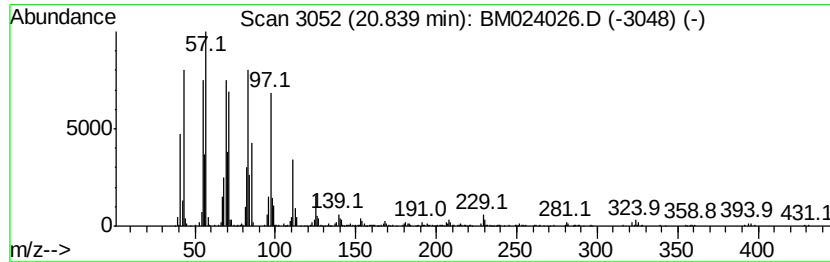
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Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Cyclic20.84 Concentration Rank 1

| R.T.      | EstConc                    | Area    | Relative to ISTD | R.T.         |      |
|-----------|----------------------------|---------|------------------|--------------|------|
| 20.84     | 4.81 ng/ul                 | 1288130 | Chrysene-d12     | 21.10        |      |
| Hit# of 5 | Tentative ID               | MW      | MolForm          | CAS#         | Qual |
| 1         | 3-Eicosene, (E)-           | 280     | C20H40           | 074685-33-9  | 96   |
| 2         | 1-Heneicosanol             | 312     | C21H44O          | 015594-90-8  | 93   |
| 3         | Nonadecyl trifluoroacetate | 380     | C21H39F3O2       | 1000351-76-3 | 91   |
| 4         | 17-Pentatriacontene        | 491     | C35H70           | 006971-40-0  | 91   |
| 5         | 1-Heneicosyl formate       | 340     | C22H44O2         | 077899-03-7  | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120619\  
Data File : BM024026.D  
Acq On : 06 Dec 2019 21:04  
Operator : JU  
Sample : K6007-16  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.M  
Quant Title : SVOA CALIBRATION

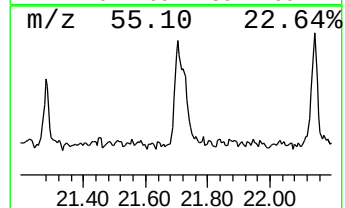
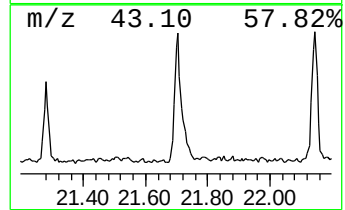
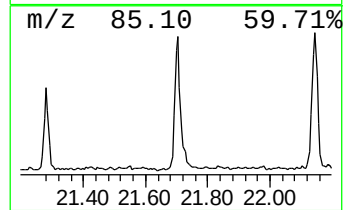
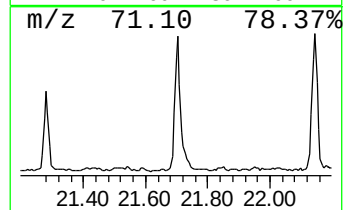
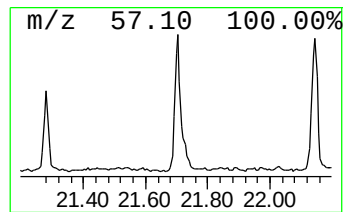
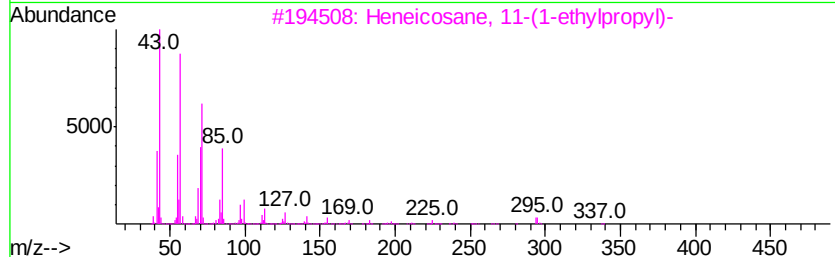
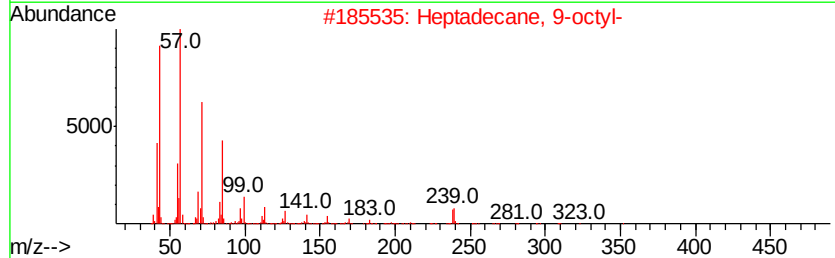
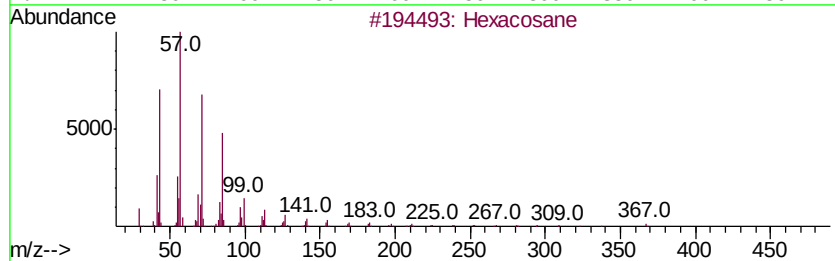
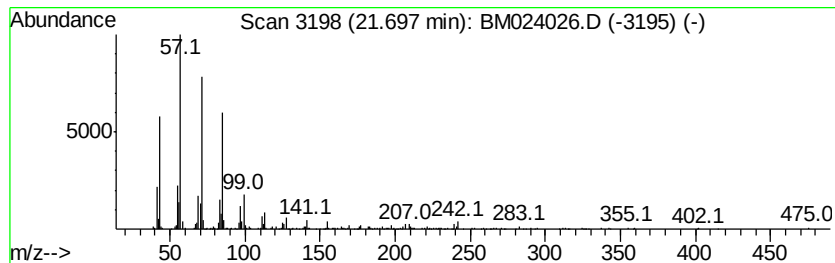
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.70 | 2.69 ng/ul | 721351 | Chrysene-d12     | 21.10 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexacosane                       | 366 | C26H54  | 000630-01-3 | 90   |
| 2    |    | Heptadecane, 9-octyl-            | 352 | C25H52  | 007225-64-1 | 87   |
| 3    |    | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54  | 055282-11-6 | 87   |
| 4    |    | Eicosane                         | 282 | C20H42  | 000112-95-8 | 83   |
| 5    |    | Heptacosane                      | 380 | C27H56  | 000593-49-7 | 81   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120619\  
Data File : BM024026.D  
Acq On : 06 Dec 2019 21:04  
Operator : JU  
Sample : K6007-16  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0BM2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.M  
Quant Title : SVOA CALIBRATION

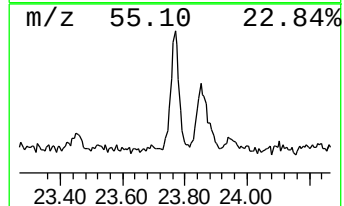
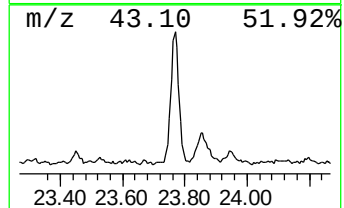
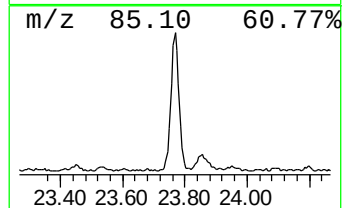
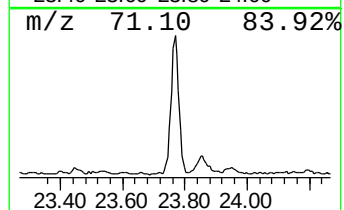
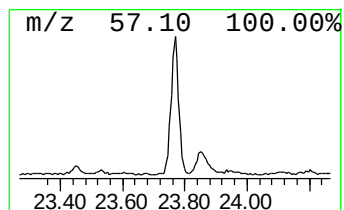
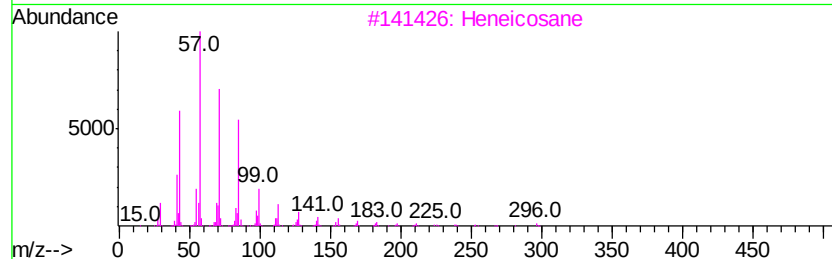
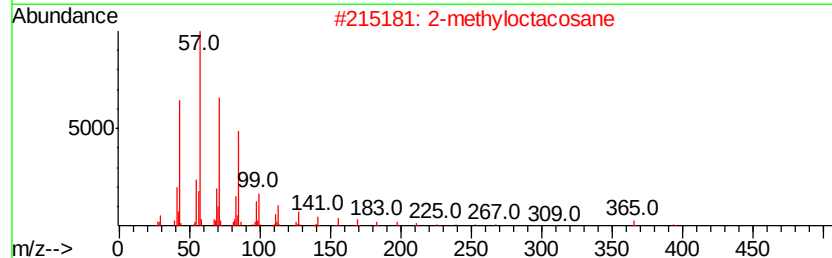
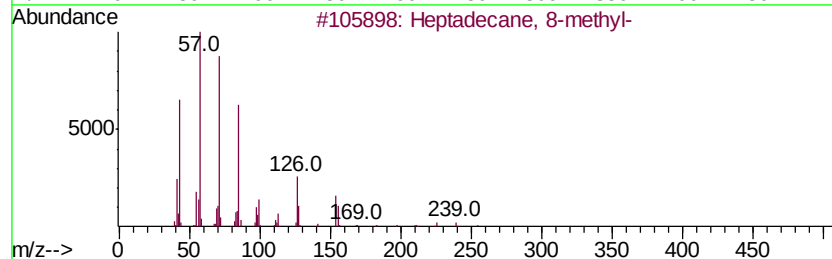
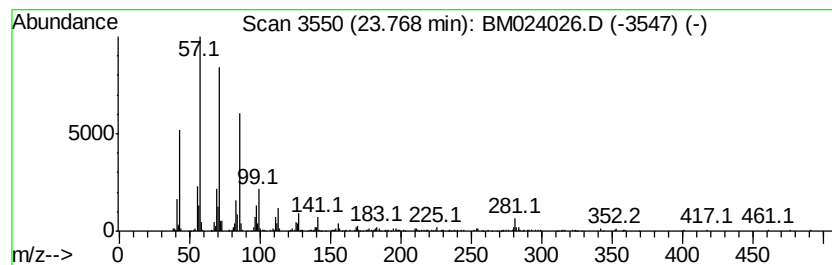
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.77 | 2.65 ng/ul | 669213 | Perylene-d12     | 23.24 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#         | Qual |
|------|----|---|------------------------|-----|---------|--------------|------|
| 1    |    |   | Heptadecane, 8-methyl- | 254 | C18H38  | 013287-23-5  | 91   |
| 2    |    |   | 2-methyloctacosane     | 408 | C29H60  | 1000376-72-8 | 91   |
| 3    |    |   | Heneicosane            | 296 | C21H44  | 000629-94-7  | 91   |
| 4    |    |   | Tetracosane            | 338 | C24H50  | 000646-31-1  | 91   |
| 5    |    |   | Pentadecane, 8-hexyl-  | 296 | C21H44  | 013475-75-7  | 91   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM120619\  
Data File : BM024026.D  
Acq On : 06 Dec 2019 21:04  
Operator : JU  
Sample : K6007-16  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0BM2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM112719MA.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  | 17.82 | 2.9     | ng/ul | 856514   | 4                     | 16.89 | 5870470 | 20.0 |
| (DEL) Alkane: Cyc... | 20.84 | 4.8     | ng/ul | 1288130  | 5                     | 21.10 | 5356220 | 20.0 |
| (DEL) Alkane: Str... | 21.70 | 2.7     | ng/ul | 721351   | 5                     | 21.10 | 5356220 | 20.0 |
| (DEL) Alkane: Str... | 23.77 | 2.6     | ng/ul | 669213   | 6                     | 23.24 | 5059070 | 20.0 |