

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082319\  
 Data File : BM022251.D  
 Acq On : 23 Aug 2019 12:04  
 Operator : HP/JU  
 Sample : K4183-09  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AH5

## 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-BM082219MA.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         | 3.140       | 23            | 26          | 31           | rVB3     | 3566           | 5138          | 0.56%           | 0.055%        |
| 2         | 3.228       | 39            | 41          | 46           | rVB3     | 1235           | 1267          | 0.14%           | 0.013%        |
| 3         | 3.346       | 57            | 61          | 64           | rVB2     | 1094           | 1735          | 0.19%           | 0.018%        |
| 4         | 3.422       | 70            | 74          | 75           | rVB      | 1109           | 1251          | 0.14%           | 0.013%        |
| 5         | 3.505       | 87            | 88          | 93           | rBV4     | 850            | 1041          | 0.11%           | 0.011%        |
| 6         | 3.722       | 120           | 125         | 129          | rBV2     | 7834           | 11705         | 1.28%           | 0.125%        |
| 7         | 3.822       | 138           | 142         | 143          | rBV2     | 909            | 1004          | 0.11%           | 0.011%        |
| 8         | 3.940       | 160           | 162         | 168          | rVB      | 1112           | 1383          | 0.15%           | 0.015%        |
| 9         | 4.211       | 206           | 208         | 213          | rBV2     | 1212           | 1700          | 0.19%           | 0.018%        |
| 10        | 4.711       | 290           | 293         | 302          | rVB2     | 3933           | 6031          | 0.66%           | 0.064%        |
| 11        | 5.987       | 508           | 510         | 514          | rBB      | 1569           | 1769          | 0.19%           | 0.019%        |
| 12        | 6.752       | 635           | 640         | 652          | rBV2     | 82759          | 162473        | 17.82%          | 1.730%        |
| 13        | 6.916       | 663           | 668         | 681          | rBV      | 65973          | 110554        | 12.13%          | 1.177%        |
| 14        | 7.099       | 693           | 699         | 708          | rBB      | 98769          | 163288        | 17.91%          | 1.739%        |
| 15        | 7.557       | 771           | 777         | 786          | rBB      | 139790         | 218822        | 24.00%          | 2.331%        |
| 16        | 8.281       | 894           | 900         | 913          | rBV      | 105282         | 188663        | 20.69%          | 2.009%        |
| 17        | 8.728       | 970           | 976         | 987          | rBV      | 97271          | 165590        | 18.16%          | 1.764%        |
| 18        | 9.051       | 1027          | 1031        | 1033         | rBB      | 1269           | 1704          | 0.19%           | 0.018%        |
| 19        | 9.440       | 1092          | 1097        | 1106         | rBB      | 88062          | 144801        | 15.88%          | 1.542%        |
| 20        | 9.975       | 1182          | 1188        | 1208         | rBB      | 107772         | 208353        | 22.85%          | 2.219%        |
| 21        | 10.334      | 1242          | 1249        | 1258         | rBV      | 201636         | 332449        | 36.46%          | 3.541%        |
| 22        | 10.504      | 1272          | 1278        | 1298         | rBV      | 85120          | 182793        | 20.05%          | 1.947%        |
| 23        | 11.957      | 1522          | 1525        | 1527         | rBB2     | 1067           | 1330          | 0.15%           | 0.014%        |
| 24        | 13.639      | 1805          | 1811        | 1816         | rBV      | 267934         | 384297        | 42.15%          | 4.093%        |
| 25        | 13.686      | 1816          | 1819        | 1828         | rVB      | 96452          | 137194        | 15.05%          | 1.461%        |
| 26        | 13.904      | 1850          | 1856        | 1869         | rBV      | 299030         | 425730        | 46.70%          | 4.534%        |
| 27        | 14.216      | 1903          | 1909        | 1917         | rBB2     | 326747         | 487334        | 53.45%          | 5.190%        |
| 28        | 14.486      | 1950          | 1955        | 1970         | rBV2     | 32520          | 92244         | 10.12%          | 0.982%        |
| 29        | 14.686      | 1986          | 1989        | 1992         | rBB      | 2645           | 2948          | 0.32%           | 0.031%        |
| 30        | 15.216      | 2074          | 2079        | 2091         | rBB      | 381182         | 541120        | 59.35%          | 5.763%        |
| 31        | 15.386      | 2102          | 2108        | 2118         | rBV      | 69476          | 111649        | 12.25%          | 1.189%        |
| 32        | 15.457      | 2118          | 2120        | 2125         | rVB2     | 2780           | 3055          | 0.34%           | 0.033%        |
| 33        | 15.975      | 2204          | 2208        | 2213         | rBV      | 6260           | 9865          | 1.08%           | 0.105%        |
| 34        | 16.169      | 2240          | 2241        | 2245         | rBB      | 922            | 991           | 0.11%           | 0.011%        |

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 BNA\_M  
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 C0AH5

## 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-BM082219MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |        |         |        |
|----|--------|------|------|------|------|--------|--------|---------|--------|
| 35 | 16.974 | 2372 | 2378 | 2385 | rBV2 | 465087 | 630760 | 69.18%  | 6.718% |
| 36 | 17.074 | 2389 | 2395 | 2406 | rVV  | 419898 | 613337 | 67.27%  | 6.532% |
| 37 | 17.869 | 2526 | 2530 | 2541 | rBV  | 57125  | 89541  | 9.82%   | 0.954% |
| 38 | 17.951 | 2541 | 2544 | 2547 | rVB2 | 2356   | 3779   | 0.41%   | 0.040% |
| 39 | 18.033 | 2555 | 2558 | 2561 | rVB2 | 1213   | 1071   | 0.12%   | 0.011% |
| 40 | 18.157 | 2575 | 2579 | 2581 | rBV2 | 2052   | 1977   | 0.22%   | 0.021% |
| 41 | 18.298 | 2600 | 2603 | 2605 | rBV2 | 1405   | 1004   | 0.11%   | 0.011% |
| 42 | 18.404 | 2618 | 2621 | 2622 | rBV2 | 1090   | 1006   | 0.11%   | 0.011% |
| 43 | 18.439 | 2625 | 2627 | 2631 | rVB3 | 703    | 934    | 0.10%   | 0.010% |
| 44 | 18.539 | 2639 | 2644 | 2645 | rBV2 | 706    | 1056   | 0.12%   | 0.011% |
| 45 | 18.604 | 2652 | 2655 | 2656 | rBV  | 1045   | 1066   | 0.12%   | 0.011% |
| 46 | 18.674 | 2665 | 2667 | 2668 | rBV2 | 1550   | 968    | 0.11%   | 0.010% |
| 47 | 18.716 | 2672 | 2674 | 2677 | rVV2 | 933    | 1083   | 0.12%   | 0.012% |
| 48 | 18.780 | 2682 | 2685 | 2686 | rBV2 | 1197   | 1137   | 0.12%   | 0.012% |
| 49 | 18.798 | 2686 | 2688 | 2689 | rBV2 | 1303   | 950    | 0.10%   | 0.010% |
| 50 | 18.963 | 2714 | 2716 | 2718 | rVB3 | 1307   | 1066   | 0.12%   | 0.011% |
| 51 | 19.021 | 2721 | 2726 | 2733 | rVV2 | 6575   | 11595  | 1.27%   | 0.123% |
| 52 | 19.121 | 2742 | 2743 | 2746 | rVB3 | 1303   | 1331   | 0.15%   | 0.014% |
| 53 | 19.163 | 2746 | 2750 | 2759 | rBV3 | 28551  | 46472  | 5.10%   | 0.495% |
| 54 | 19.268 | 2766 | 2768 | 2769 | rBV2 | 2396   | 1605   | 0.18%   | 0.017% |
| 55 | 19.386 | 2782 | 2788 | 2798 | rBV  | 646393 | 849366 | 93.16%  | 9.046% |
| 56 | 19.504 | 2806 | 2808 | 2809 | rBV2 | 1746   | 1207   | 0.13%   | 0.013% |
| 57 | 19.751 | 2848 | 2850 | 2851 | rBV2 | 2070   | 1647   | 0.18%   | 0.018% |
| 58 | 19.898 | 2872 | 2875 | 2876 | rBV3 | 2888   | 2850   | 0.31%   | 0.030% |
| 59 | 19.915 | 2876 | 2878 | 2882 | rVB4 | 5627   | 6255   | 0.69%   | 0.067% |
| 60 | 20.410 | 2960 | 2962 | 2963 | rBV2 | 5837   | 4133   | 0.45%   | 0.044% |
| 61 | 20.892 | 3040 | 3044 | 3052 | rBV2 | 67687  | 112408 | 12.33%  | 1.197% |
| 62 | 21.092 | 3075 | 3078 | 3082 | rVB  | 20919  | 20062  | 2.20%   | 0.214% |
| 63 | 21.186 | 3089 | 3094 | 3103 | rBV  | 645150 | 852790 | 93.54%  | 9.083% |
| 64 | 21.321 | 3114 | 3117 | 3120 | rBV2 | 20323  | 23864  | 2.62%   | 0.254% |
| 65 | 21.745 | 3186 | 3189 | 3192 | rBV2 | 35077  | 39578  | 4.34%   | 0.422% |
| 66 | 22.192 | 3262 | 3265 | 3271 | rVB  | 52212  | 64921  | 7.12%   | 0.691% |
| 67 | 22.680 | 3345 | 3348 | 3353 | rVB  | 80002  | 110022 | 12.07%  | 1.172% |
| 68 | 23.239 | 3436 | 3443 | 3452 | rBV  | 476427 | 911716 | 100.00% | 9.710% |
| 69 | 23.380 | 3461 | 3467 | 3477 | rVB  | 398254 | 749929 | 82.25%  | 7.987% |
| 70 | 23.839 | 3542 | 3545 | 3553 | rVB  | 65397  | 115614 | 12.68%  | 1.231% |

## LSC Area Percent Report

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Instrument :  
BNA\_M  
ClientSampleId :  
C0AH5

Integration Parameters: LSCINT.P  
Integrator: RTE  
Smoothing : OFF Filtering: 5  
Sampling : 1 Min Area: 0.1 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM082219MA.M  
Title : SVOA CALIBRATION

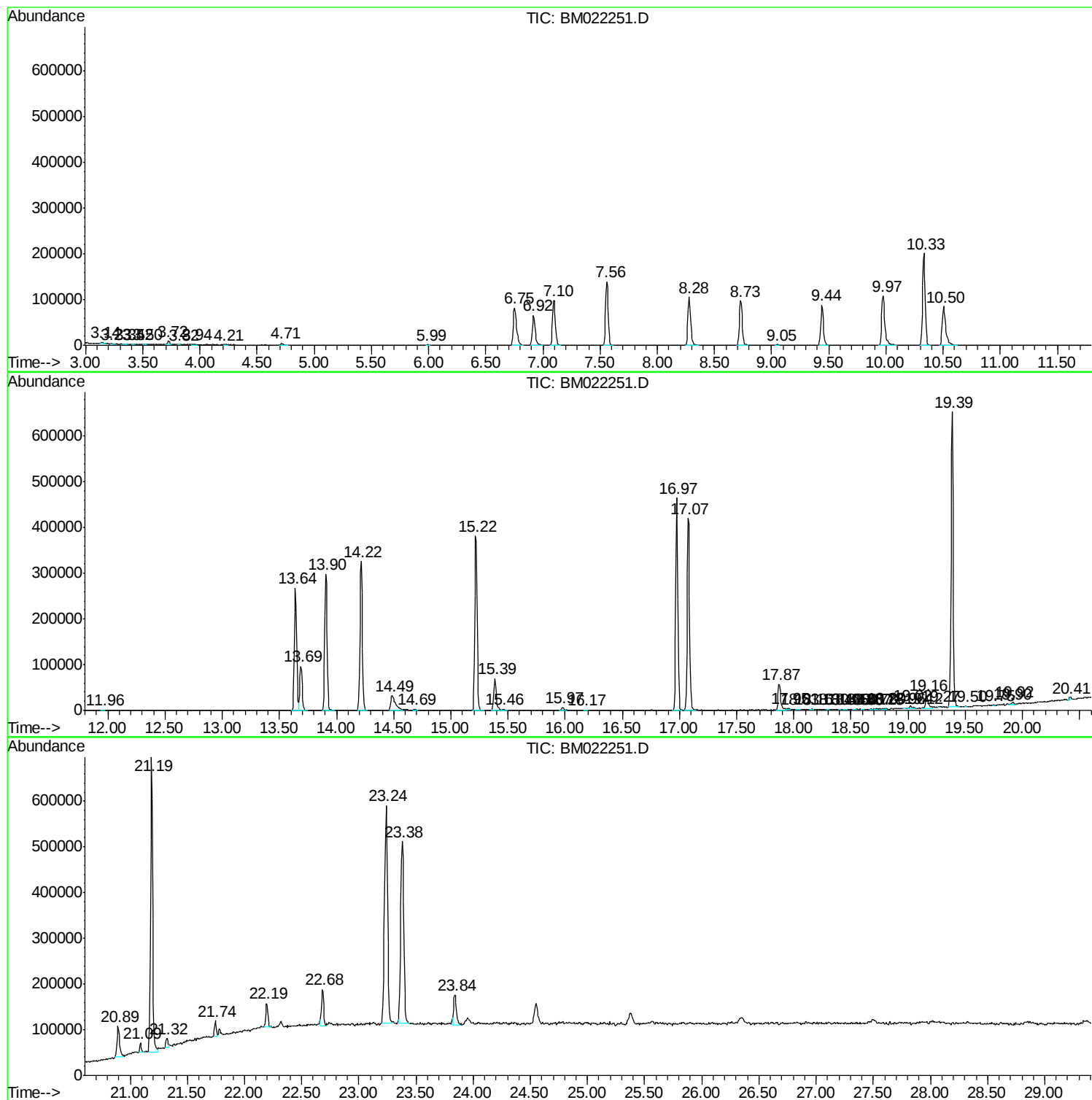
Sum of corrected areas: 9389371

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082319\  
Data File : BM022251.D  
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Sample : K4183-09  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0AH5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM082219MA.M  
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082319\  
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Sample : K4183-09  
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Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM082219MA.M  
Quant Title : SVOA CALIBRATION

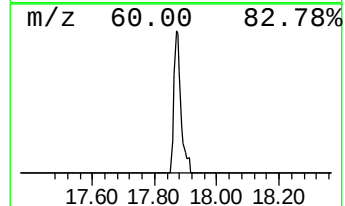
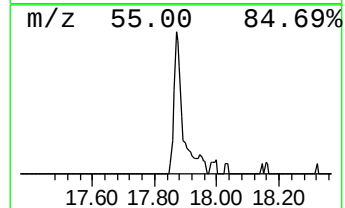
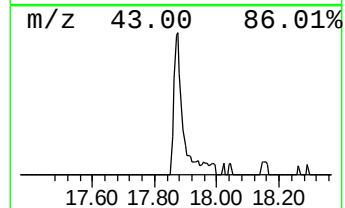
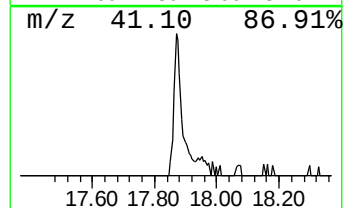
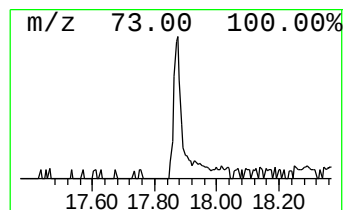
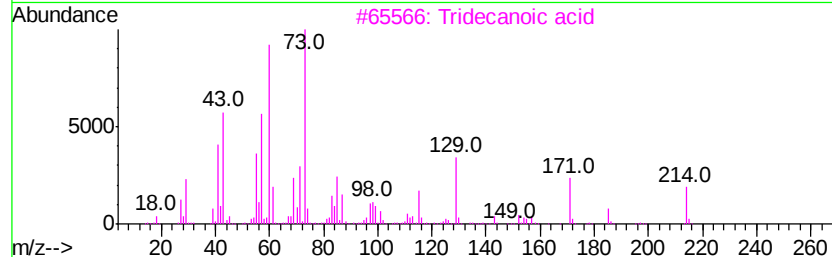
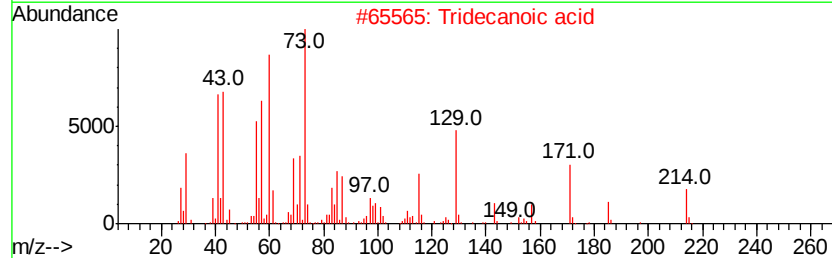
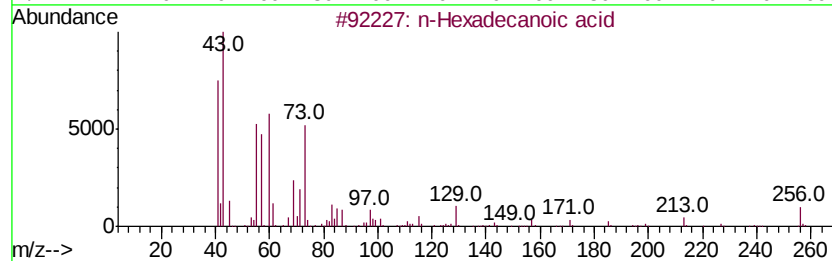
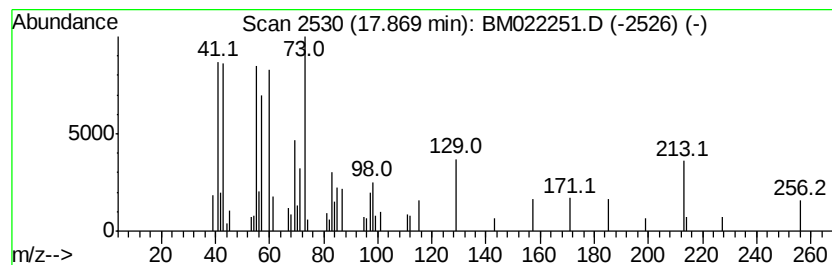
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 n-Hexadecanoic acid Concentration Rank 3

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 17.87 | 2.84 ng/ul | 89541 | Phenanthrene-d10 | 16.97 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96   |
| 2    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 95   |
| 3    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 70   |
| 4    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 70   |
| 5    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 70   |



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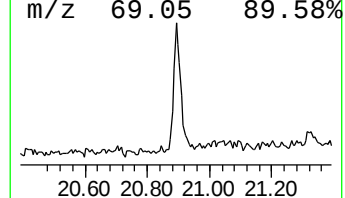
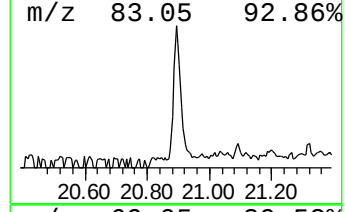
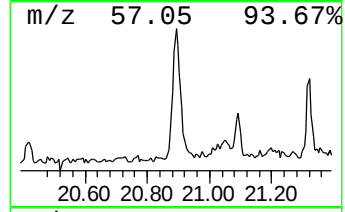
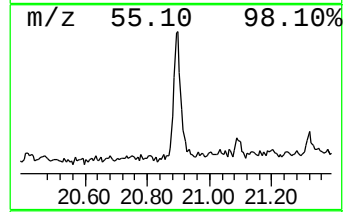
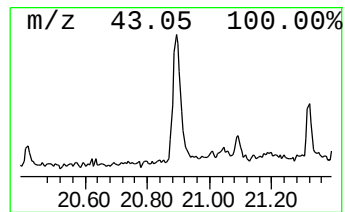
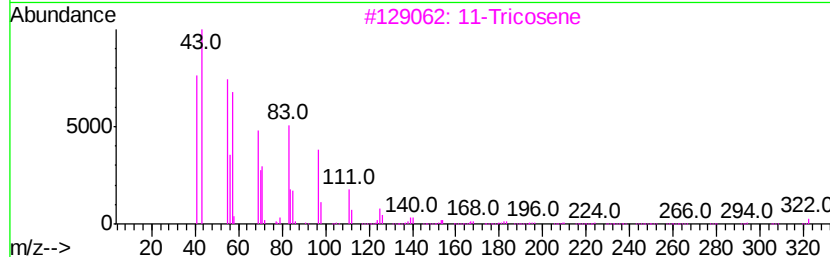
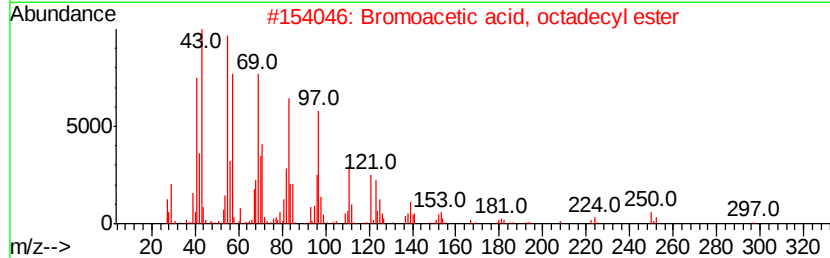
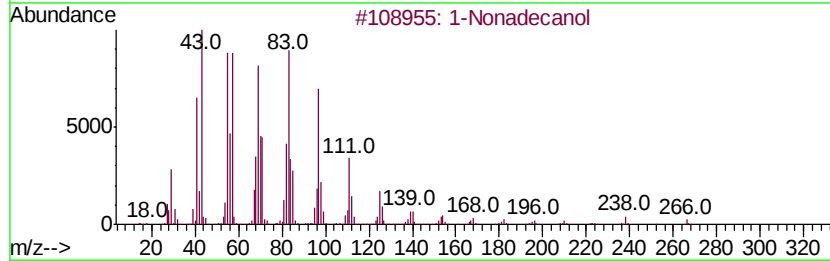
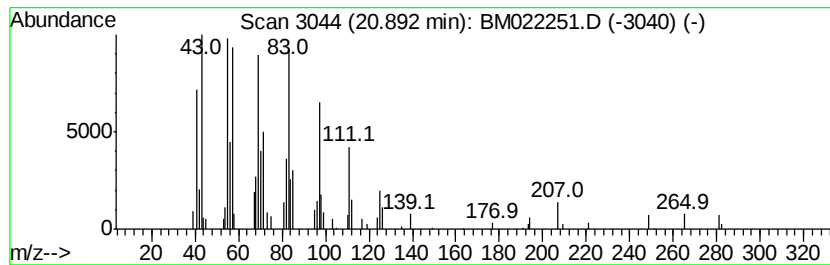
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM082219MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 2 1-Nonadecanol Concentration Rank 4

| R.T.    | EstConc                             | Area            | Relative to ISTD | R.T.      |
|---------|-------------------------------------|-----------------|------------------|-----------|
| 20.89   | 2.64 ng/ul                          | 112408          | Chrysene-d12     | 21.19     |
| Hit# of | 5                                   | Tentative ID    | MW MolForm       | CAS# Qual |
| 1       | 1-Nonadecanol                       | 284 C19H40O     | 001454-84-8      | 95        |
| 2       | Bromoacetic acid, octadecyl ester   | 390 C20H39BrO2  | 018992-03-5      | 91        |
| 3       | 11-Tricosene                        | 322 C23H46      | 052078-56-5      | 91        |
| 4       | Trichloroacetic acid, pentadecyl... | 372 C17H31Cl3O2 | 074339-53-0      | 91        |
| 5       | Trifluoroacetic acid, n-octadecy... | 366 C20H37F3O2  | 079392-43-1      | 91        |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM082219MA.M  
Quant Title : SVOA CALIBRATION

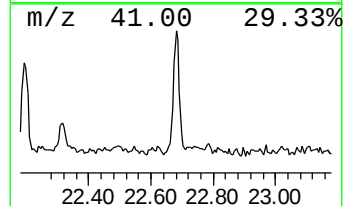
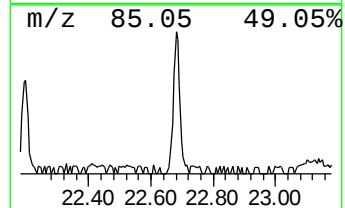
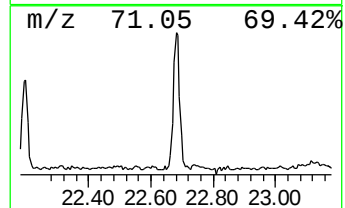
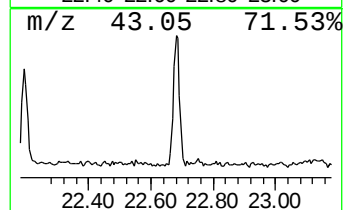
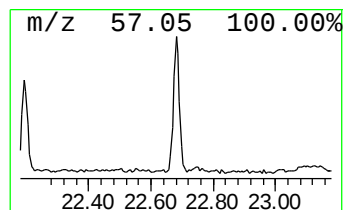
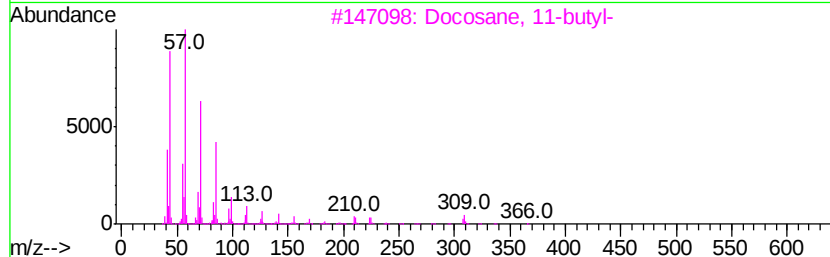
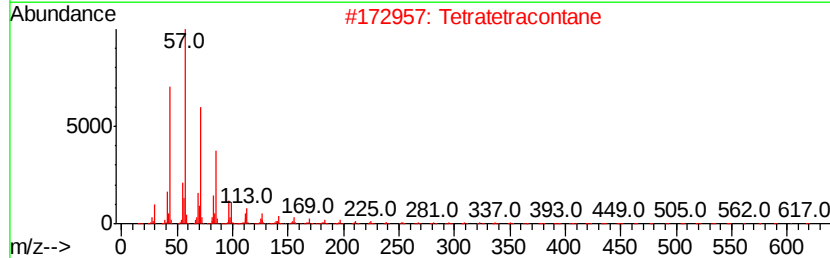
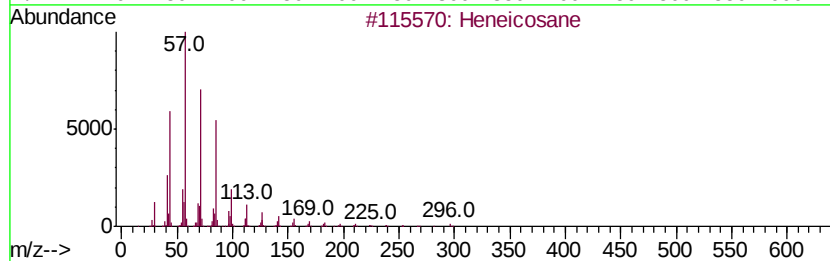
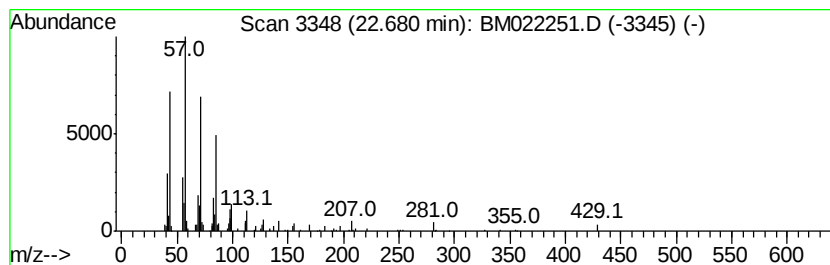
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.68 | 2.93 ng/ul | 110022 | Perylene-d12     | 23.38 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane           | 296 | C21H44  | 000629-94-7 | 90   |
| 2    |    | Tetratetracontane     | 619 | C44H90  | 007098-22-8 | 90   |
| 3    |    | Docosane, 11-butyl-   | 366 | C26H54  | 013475-76-8 | 90   |
| 4    |    | Heptacosane           | 380 | C27H56  | 000593-49-7 | 90   |
| 5    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082319\  
Data File : BM022251.D  
Acq On : 23 Aug 2019 12:04  
Operator : HP/JU  
Sample : K4183-09  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0AH5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM082219MA.M  
Quant Title : SVOA CALIBRATION

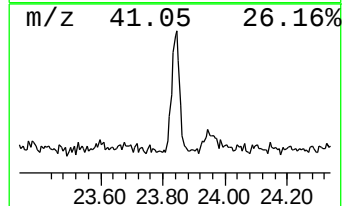
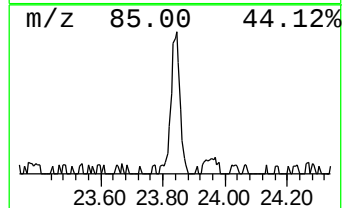
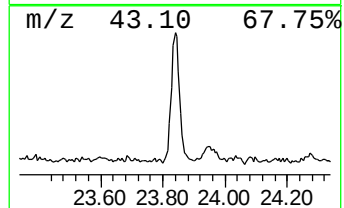
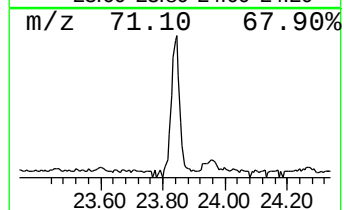
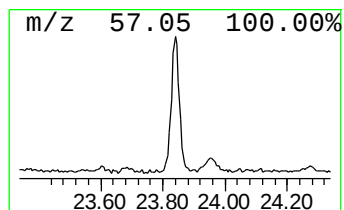
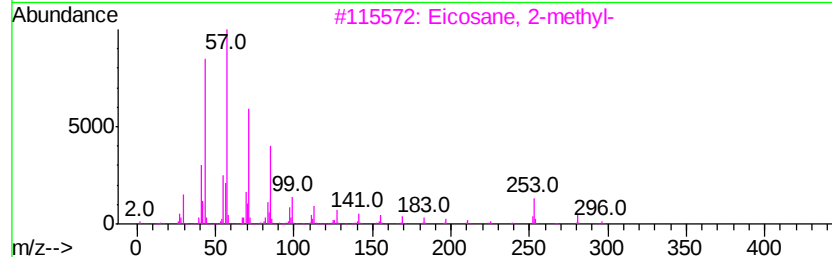
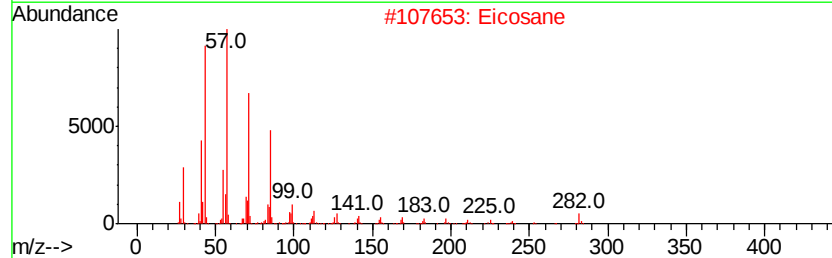
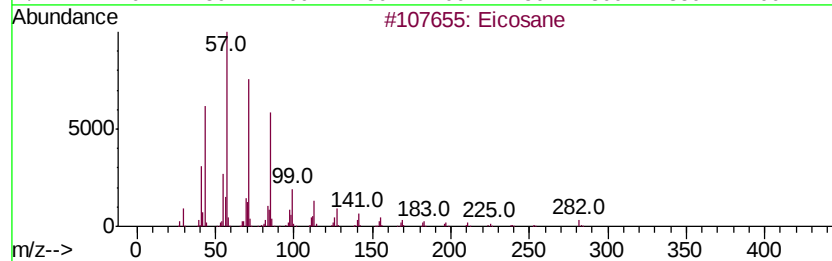
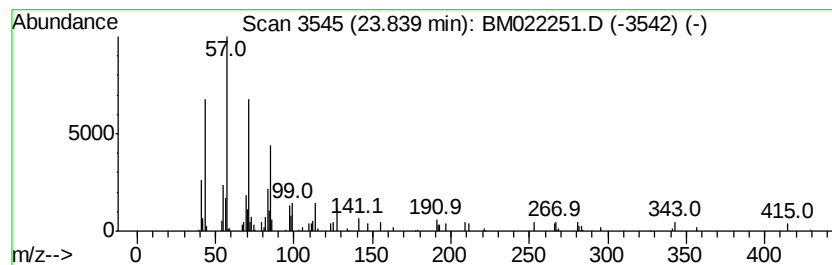
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.84 | 3.08 ng/ul | 115614 | Perylene-d12     | 23.38 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane            | 282 | C20H42  | 000112-95-8 | 97   |
| 2    |    | Eicosane            | 282 | C20H42  | 000112-95-8 | 93   |
| 3    |    | Eicosane, 2-methyl- | 296 | C21H44  | 001560-84-5 | 86   |
| 4    |    | Heneicosane         | 296 | C21H44  | 000629-94-7 | 83   |
| 5    |    | Tetratriacontane    | 479 | C34H70  | 014167-59-0 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM082319\  
Data File : BM022251.D  
Acq On : 23 Aug 2019 12:04  
Operator : HP/JU  
Sample : K4183-09  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C0AH5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM082219MA.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  | 17.87 | 2.8     | ng/ul | 89541    | 4                     | 16.97 | 630760 | 20.0 |
| 1-Nonadecanol        | 20.89 | 2.6     | ng/ul | 112408   | 5                     | 21.19 | 852790 | 20.0 |
| (DEL) Alkane: Str... | 22.68 | 2.9     | ng/ul | 110022   | 6                     | 23.38 | 749929 | 20.0 |
| (DEL) Alkane: Str... | 23.84 | 3.1     | ng/ul | 115614   | 6                     | 23.38 | 749929 | 20.0 |