

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052219\  
 Data File : BN005861.D  
 Acq On : 22 May 2019 21:10  
 Operator : JU/SJ  
 Sample : K2925-16  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A42A1

## 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\_N\METHODS\SOM-EPA-BN051819MA.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      | 6.763    | 637        | 642      | 657       | rVB   | 129024      | 303184     | 10.35%       | 1.173%     |
| 2      | 6.910    | 662        | 667      | 678       | rVB   | 121396      | 212850     | 7.26%        | 0.824%     |
| 3      | 7.105    | 695        | 700      | 714       | rVB   | 159253      | 303061     | 10.34%       | 1.173%     |
| 4      | 7.563    | 772        | 778      | 790       | rVB   | 197226      | 380638     | 12.99%       | 1.473%     |
| 5      | 8.287    | 895        | 901      | 913       | rBV   | 129498      | 277400     | 9.47%        | 1.073%     |
| 6      | 8.716    | 968        | 974      | 982       | rBV   | 173546      | 333717     | 11.39%       | 1.291%     |
| 7      | 9.434    | 1090       | 1096     | 1111      | rVB2  | 134633      | 273657     | 9.34%        | 1.059%     |
| 8      | 9.981    | 1183       | 1189     | 1201      | rBV   | 141812      | 352121     | 12.02%       | 1.362%     |
| 9      | 10.322   | 1241       | 1247     | 1261      | rVB   | 331511      | 581279     | 19.84%       | 2.249%     |
| 10     | 10.487   | 1270       | 1275     | 1296      | rVB   | 92392       | 267062     | 9.12%        | 1.033%     |
| 11     | 13.616   | 1802       | 1807     | 1813      | rBV   | 490094      | 785146     | 26.80%       | 3.038%     |
| 12     | 13.669   | 1813       | 1816     | 1824      | rVB   | 110234      | 175730     | 6.00%        | 0.680%     |
| 13     | 13.892   | 1847       | 1854     | 1870      | rBV   | 592505      | 935842     | 31.94%       | 3.621%     |
| 14     | 14.198   | 1900       | 1906     | 1914      | rBV2  | 587800      | 917022     | 31.30%       | 3.548%     |
| 15     | 14.492   | 1951       | 1956     | 1968      | rBV3  | 43752       | 140206     | 4.79%        | 0.543%     |
| 16     | 14.622   | 1975       | 1978     | 1981      | rVB3  | 5323        | 6404       | 0.22%        | 0.025%     |
| 17     | 14.675   | 1983       | 1987     | 1992      | rVB6  | 5802        | 7563       | 0.26%        | 0.029%     |
| 18     | 15.204   | 2071       | 2077     | 2087      | rBV   | 768032      | 1216011    | 41.50%       | 4.705%     |
| 19     | 15.381   | 2102       | 2107     | 2117      | rBV2  | 92694       | 184210     | 6.29%        | 0.713%     |
| 20     | 15.451   | 2117       | 2119     | 2125      | rVB6  | 11423       | 17001      | 0.58%        | 0.066%     |
| 21     | 15.939   | 2198       | 2202     | 2204      | rBV2  | 4088        | 5121       | 0.17%        | 0.020%     |
| 22     | 16.281   | 2253       | 2260     | 2265      | rBV3  | 2201        | 4858       | 0.17%        | 0.019%     |
| 23     | 16.339   | 2268       | 2270     | 2276      | rVB2  | 2977        | 4407       | 0.15%        | 0.017%     |
| 24     | 16.516   | 2293       | 2300     | 2301      | rBV5  | 3873        | 6171       | 0.21%        | 0.024%     |
| 25     | 16.639   | 2316       | 2321     | 2323      | rBV4  | 5422        | 8981       | 0.31%        | 0.035%     |
| 26     | 16.786   | 2342       | 2346     | 2354      | rVB2  | 5714        | 8573       | 0.29%        | 0.033%     |
| 27     | 16.957   | 2369       | 2375     | 2380      | rBV2  | 942089      | 1315842    | 44.91%       | 5.091%     |
| 28     | 17.004   | 2380       | 2383     | 2387      | rVV   | 159799      | 211272     | 7.21%        | 0.817%     |
| 29     | 17.063   | 2387       | 2393     | 2408      | rVB   | 880588      | 1431282    | 48.85%       | 5.538%     |
| 30     | 17.398   | 2446       | 2450     | 2459      | rBV5  | 8963        | 15839      | 0.54%        | 0.061%     |
| 31     | 17.557   | 2473       | 2477     | 2480      | rBV4  | 3177        | 4547       | 0.16%        | 0.018%     |
| 32     | 17.610   | 2480       | 2486     | 2492      | rVB   | 37348       | 47314      | 1.61%        | 0.183%     |
| 33     | 17.845   | 2523       | 2526     | 2528      | rBV   | 22629       | 29379      | 1.00%        | 0.114%     |
| 34     | 17.875   | 2528       | 2531     | 2533      | rVV2  | 35612       | 49596      | 1.69%        | 0.192%     |

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 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\_N\METHODS\SOM-EPA-BN051819MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 17.898 | 2533 | 2535 | 2540 | rVV2 | 40028   | 55188   | 1.88%  | 0.214% |
| 36 | 17.939 | 2540 | 2542 | 2546 | rVB  | 9801    | 10437   | 0.36%  | 0.040% |
| 37 | 17.986 | 2546 | 2550 | 2555 | rBV3 | 9680    | 14962   | 0.51%  | 0.058% |
| 38 | 18.039 | 2555 | 2559 | 2563 | rBV2 | 38630   | 55954   | 1.91%  | 0.217% |
| 39 | 18.080 | 2563 | 2566 | 2574 | rVB  | 21014   | 31658   | 1.08%  | 0.122% |
| 40 | 18.163 | 2576 | 2580 | 2583 | rBV3 | 5476    | 6627    | 0.23%  | 0.026% |
| 41 | 18.351 | 2607 | 2612 | 2616 | rBV  | 17084   | 25292   | 0.86%  | 0.098% |
| 42 | 18.416 | 2619 | 2623 | 2629 | rVB2 | 16858   | 26261   | 0.90%  | 0.102% |
| 43 | 18.604 | 2648 | 2655 | 2657 | rBV5 | 6515    | 10503   | 0.36%  | 0.041% |
| 44 | 18.651 | 2659 | 2663 | 2667 | rBV2 | 5891    | 8838    | 0.30%  | 0.034% |
| 45 | 18.692 | 2667 | 2670 | 2675 | rVB  | 5435    | 7589    | 0.26%  | 0.029% |
| 46 | 18.775 | 2675 | 2684 | 2688 | rBV2 | 45663   | 65472   | 2.23%  | 0.253% |
| 47 | 18.833 | 2693 | 2694 | 2698 | rVB2 | 7952    | 7222    | 0.25%  | 0.028% |
| 48 | 18.869 | 2698 | 2700 | 2704 | rVB3 | 7358    | 7846    | 0.27%  | 0.030% |
| 49 | 18.927 | 2704 | 2710 | 2717 | rBV6 | 13495   | 28883   | 0.99%  | 0.112% |
| 50 | 19.039 | 2720 | 2729 | 2739 | rBV  | 367646  | 518009  | 17.68% | 2.004% |
| 51 | 19.116 | 2739 | 2742 | 2744 | rBV2 | 4916    | 5260    | 0.18%  | 0.020% |
| 52 | 19.174 | 2748 | 2752 | 2754 | rBV4 | 11561   | 17170   | 0.59%  | 0.066% |
| 53 | 19.275 | 2763 | 2769 | 2770 | rBV  | 13488   | 21327   | 0.73%  | 0.083% |
| 54 | 19.375 | 2780 | 2786 | 2790 | rBV  | 1413403 | 2129257 | 72.67% | 8.239% |
| 55 | 19.492 | 2801 | 2806 | 2811 | rVB2 | 21561   | 33765   | 1.15%  | 0.131% |
| 56 | 19.604 | 2817 | 2825 | 2831 | rBV2 | 18968   | 35306   | 1.21%  | 0.137% |
| 57 | 19.657 | 2831 | 2834 | 2836 | rBV3 | 3234    | 4321    | 0.15%  | 0.017% |
| 58 | 19.680 | 2836 | 2838 | 2843 | rVB4 | 5912    | 6721    | 0.23%  | 0.026% |
| 59 | 19.745 | 2843 | 2849 | 2858 | rBV3 | 24923   | 64657   | 2.21%  | 0.250% |
| 60 | 19.827 | 2858 | 2863 | 2867 | rBV5 | 5478    | 9012    | 0.31%  | 0.035% |
| 61 | 19.886 | 2867 | 2873 | 2874 | rBV5 | 17949   | 28377   | 0.97%  | 0.110% |
| 62 | 19.916 | 2874 | 2878 | 2881 | rBV  | 31945   | 43725   | 1.49%  | 0.169% |
| 63 | 20.022 | 2892 | 2896 | 2899 | rBV  | 24674   | 28648   | 0.98%  | 0.111% |
| 64 | 20.074 | 2899 | 2905 | 2911 | rBV4 | 35686   | 63679   | 2.17%  | 0.246% |
| 65 | 20.163 | 2917 | 2920 | 2922 | rBV4 | 7581    | 8289    | 0.28%  | 0.032% |
| 66 | 20.222 | 2925 | 2930 | 2933 | rBV  | 21686   | 28983   | 0.99%  | 0.112% |
| 67 | 20.263 | 2933 | 2937 | 2941 | rBV4 | 22433   | 34425   | 1.17%  | 0.133% |
| 68 | 20.374 | 2950 | 2956 | 2958 | rBV7 | 9235    | 16811   | 0.57%  | 0.065% |
| 69 | 20.439 | 2964 | 2967 | 2971 | rBV  | 37996   | 37869   | 1.29%  | 0.147% |
| 70 | 20.480 | 2971 | 2974 | 2977 | rVV5 | 6706    | 8337    | 0.28%  | 0.032% |
| 71 | 20.551 | 2982 | 2986 | 2988 | rVV4 | 9410    | 9474    | 0.32%  | 0.037% |

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ALS Vial : 11 Sample Multiplier: 1

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## 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\_N\METHODS\SOM-EPA-BN051819MA.M  
Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |         |
|-----|--------|------|------|------|------|---------|---------|---------|---------|
| 72  | 20.633 | 2997 | 3000 | 3002 | rBV3 | 6921    | 7979    | 0.27%   | 0.031%  |
| 73  | 20.686 | 3005 | 3009 | 3013 | rVB  | 36201   | 47789   | 1.63%   | 0.185%  |
| 74  | 20.763 | 3020 | 3022 | 3025 | rVB3 | 6607    | 5248    | 0.18%   | 0.020%  |
| 75  | 20.839 | 3032 | 3035 | 3038 | rVV2 | 40307   | 51005   | 1.74%   | 0.197%  |
| 76  | 20.874 | 3038 | 3041 | 3044 | rVV2 | 37105   | 50704   | 1.73%   | 0.196%  |
| 77  | 20.910 | 3044 | 3047 | 3057 | rVV4 | 125733  | 217658  | 7.43%   | 0.842%  |
| 78  | 20.992 | 3057 | 3061 | 3067 | rVB  | 41221   | 65137   | 2.22%   | 0.252%  |
| 79  | 21.110 | 3077 | 3081 | 3086 | rVV  | 58930   | 68750   | 2.35%   | 0.266%  |
| 80  | 21.192 | 3087 | 3095 | 3100 | rBV2 | 1478477 | 2351807 | 80.27%  | 9.100%  |
| 81  | 21.233 | 3100 | 3102 | 3108 | rVB  | 229638  | 258517  | 8.82%   | 1.000%  |
| 82  | 21.351 | 3118 | 3122 | 3126 | rVB  | 122360  | 143300  | 4.89%   | 0.554%  |
| 83  | 21.427 | 3132 | 3135 | 3142 | rBV7 | 19531   | 28595   | 0.98%   | 0.111%  |
| 84  | 21.527 | 3149 | 3152 | 3157 | rVB3 | 23980   | 36693   | 1.25%   | 0.142%  |
| 85  | 21.751 | 3187 | 3190 | 3192 | rBV2 | 34134   | 38411   | 1.31%   | 0.149%  |
| 86  | 21.780 | 3192 | 3195 | 3203 | rVB2 | 237120  | 284840  | 9.72%   | 1.102%  |
| 87  | 21.945 | 3221 | 3223 | 3226 | rBV3 | 16353   | 16516   | 0.56%   | 0.064%  |
| 88  | 22.233 | 3268 | 3272 | 3277 | rBV  | 183191  | 247673  | 8.45%   | 0.958%  |
| 89  | 22.357 | 3290 | 3293 | 3297 | rVB2 | 29699   | 34308   | 1.17%   | 0.133%  |
| 90  | 22.457 | 3307 | 3310 | 3315 | rBV5 | 41865   | 51534   | 1.76%   | 0.199%  |
| 91  | 22.727 | 3351 | 3356 | 3364 | rBV2 | 470753  | 1065210 | 36.36%  | 4.122%  |
| 92  | 22.915 | 3384 | 3388 | 3393 | rVB  | 41320   | 67924   | 2.32%   | 0.263%  |
| 93  | 23.204 | 3432 | 3437 | 3440 | rBV  | 132342  | 215488  | 7.35%   | 0.834%  |
| 94  | 23.257 | 3440 | 3446 | 3461 | rVB3 | 1352144 | 2929882 | 100.00% | 11.337% |
| 95  | 23.392 | 3462 | 3469 | 3477 | rBV2 | 1060646 | 2055055 | 70.14%  | 7.952%  |
| 96  | 23.892 | 3548 | 3554 | 3565 | rVB  | 231860  | 425580  | 14.53%  | 1.647%  |
| 97  | 24.604 | 3670 | 3675 | 3685 | rVB3 | 86118   | 183612  | 6.27%   | 0.710%  |
| 98  | 25.433 | 3812 | 3816 | 3825 | rVB3 | 61132   | 132630  | 4.53%   | 0.513%  |
| 99  | 25.592 | 3837 | 3843 | 3853 | rVB2 | 96209   | 266541  | 9.10%   | 1.031%  |
| 100 | 26.268 | 3951 | 3958 | 3964 | rBV2 | 54085   | 166207  | 5.67%   | 0.643%  |

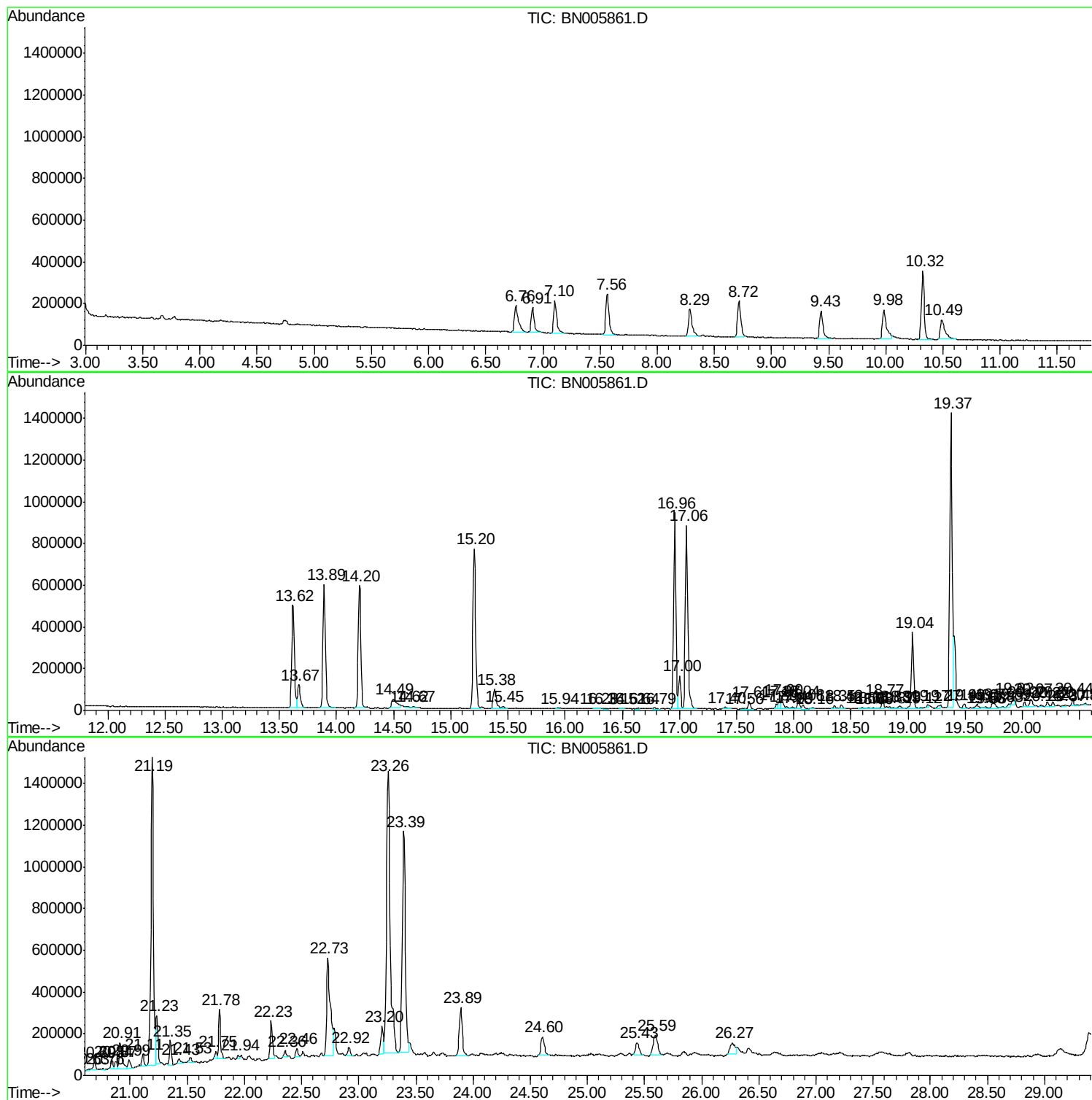
Sum of corrected areas: 25844033

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

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



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

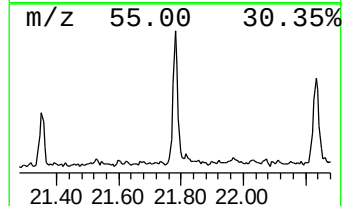
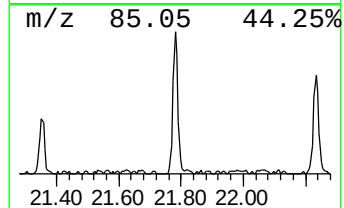
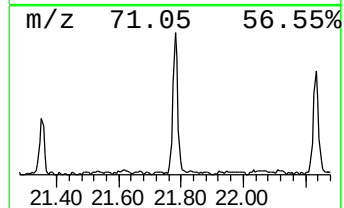
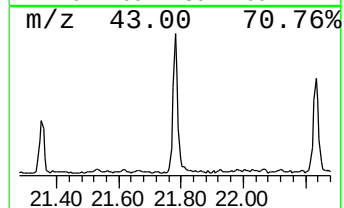
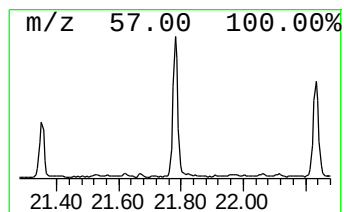
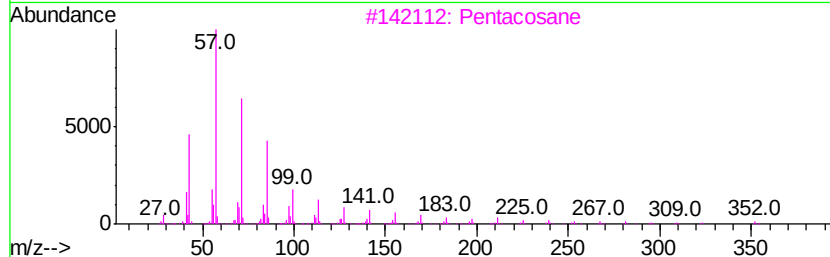
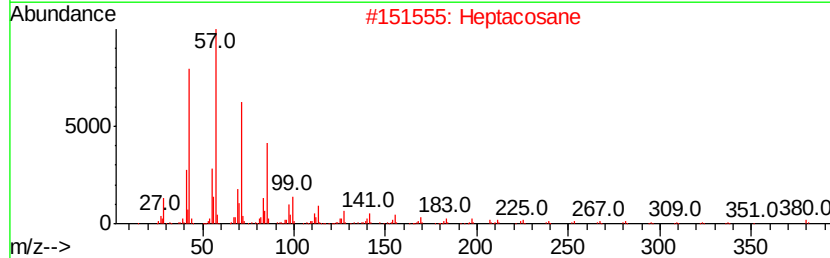
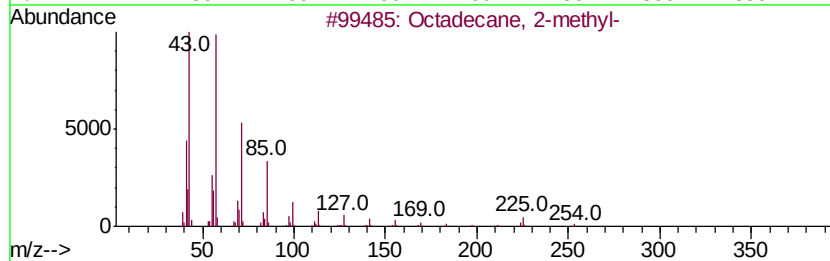
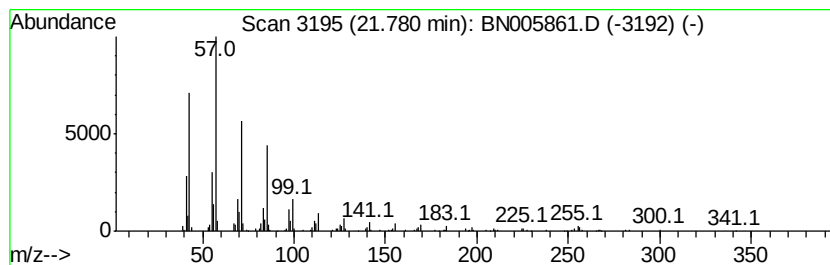
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.78 | 2.42 ng/ul | 284840 | Chrysene-d12     | 21.19 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Octadecane, 2-methyl- | 268 | C19H40  | 001560-88-9 | 93   |
| 2    |    | Heptacosane           | 380 | C27H56  | 000593-49-7 | 91   |
| 3    |    | Pentacosane           | 352 | C25H52  | 000629-99-2 | 91   |
| 4    |    | Nonacosane            | 408 | C29H60  | 000630-03-5 | 91   |
| 5    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |



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Quant Title : SVOA CALIBRATION

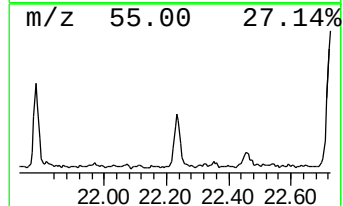
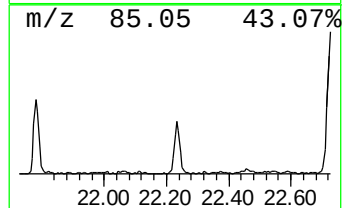
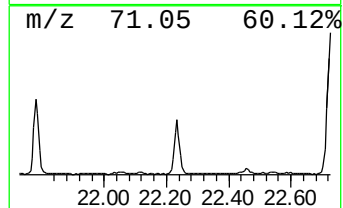
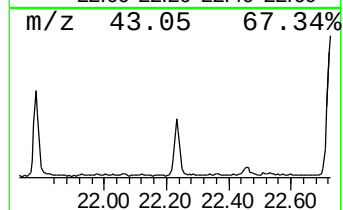
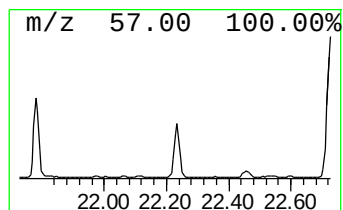
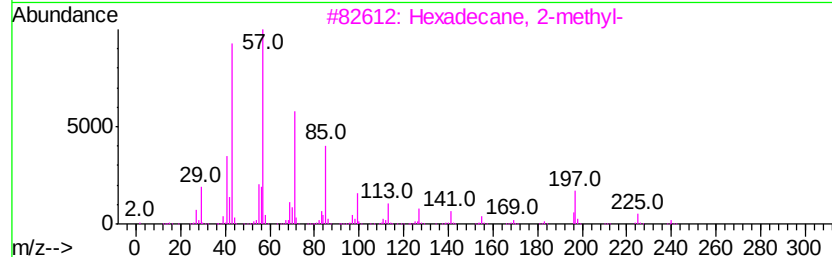
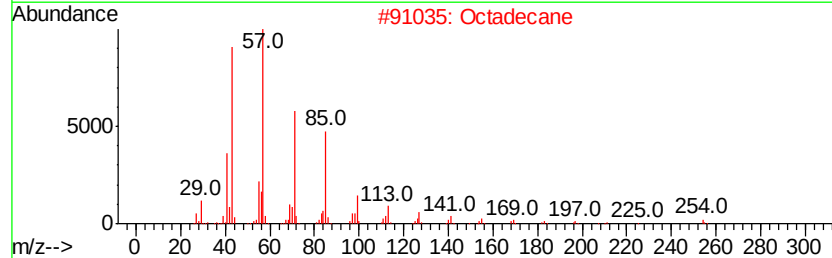
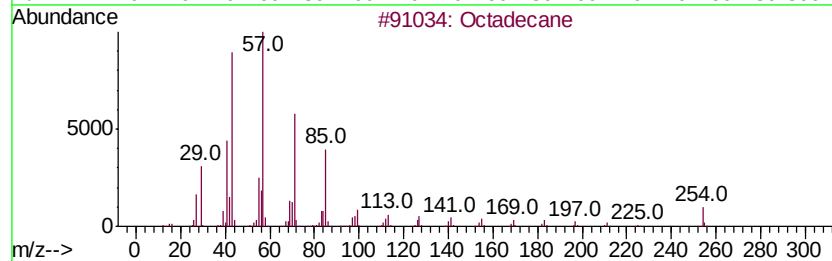
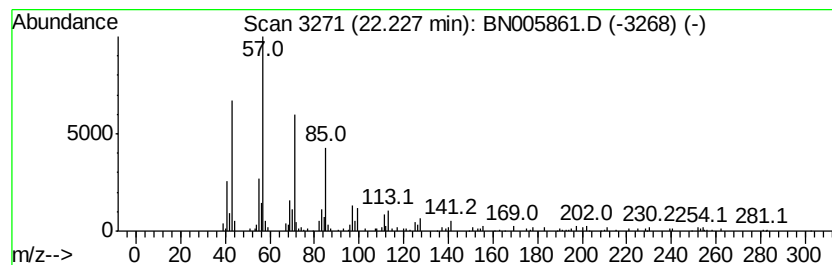
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.23 | 2.11 ng/ul | 247673 | Chrysene-d12     | 21.19 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|-----|---------|-------------|------|
| 1    |    |   | Octadecane            | 254 | C18H38  | 000593-45-3 | 95   |
| 2    |    |   | Octadecane            | 254 | C18H38  | 000593-45-3 | 93   |
| 3    |    |   | Hexadecane, 2-methyl- | 240 | C17H36  | 001560-92-5 | 91   |
| 4    |    |   | Docosane, 11-decyl-   | 451 | C32H66  | 055401-55-3 | 90   |
| 5    |    |   | Heptacosane           | 380 | C27H56  | 000593-49-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN052219\  
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Acq On : 22 May 2019 21:10  
Operator : JU/SJ  
Sample : K2925-16  
Misc :  
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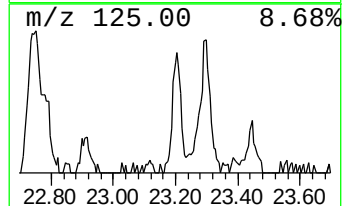
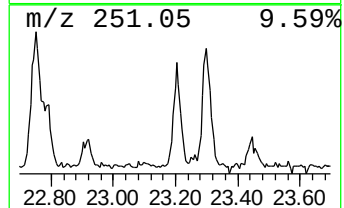
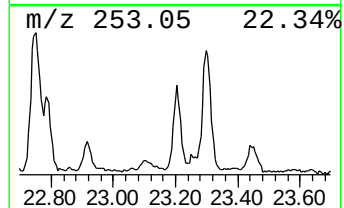
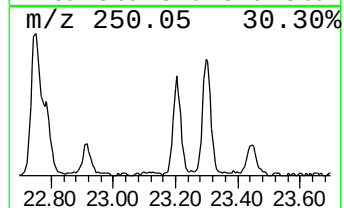
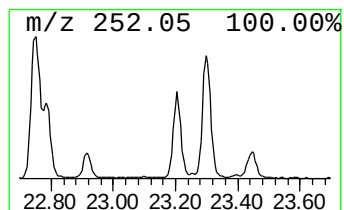
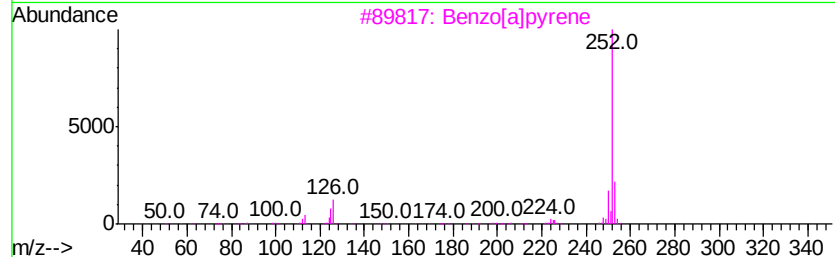
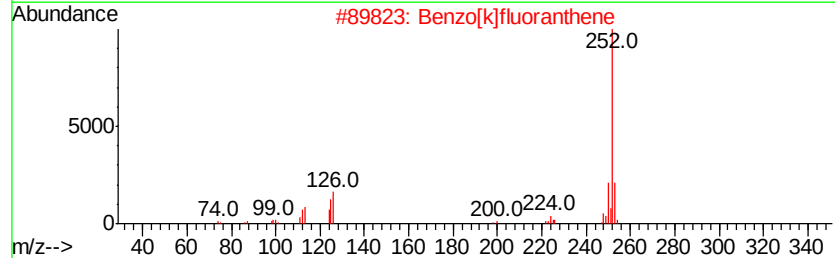
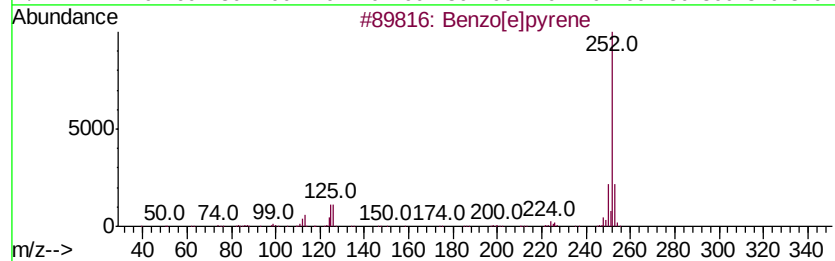
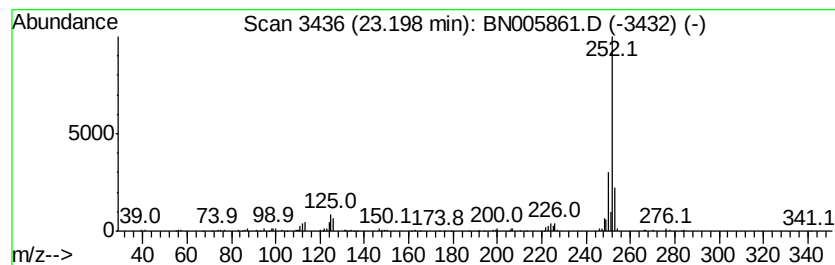
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Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 Benzo[e]pyrene Concentration Rank 4

| R.T.    | EstConc                  | Area         | Relative to ISTD | R.T.      |
|---------|--------------------------|--------------|------------------|-----------|
| 23.20   | 2.10 ng/ul               | 215488       | Perylene-d12     | 23.39     |
| Hit# of | 5                        | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Benzo[e]pyrene           | 252 C20H12   | 000192-97-2      | 95        |
| 2       | Benzo[k]fluoranthene     | 252 C20H12   | 000207-08-9      | 95        |
| 3       | Benzo[a]pyrene           | 252 C20H12   | 000050-32-8      | 93        |
| 4       | Benz[e]acephenanthrylene | 252 C20H12   | 000205-99-2      | 91        |
| 5       | Benz[e]acephenanthrylene | 252 C20H12   | 000205-99-2      | 90        |





Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN052219\  
Data File : BN005861.D  
Acq On : 22 May 2019 21:10  
Operator : JU/SJ  
Sample : K2925-16  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A42A1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.M  
Quant Title : SVOA CALIBRATION

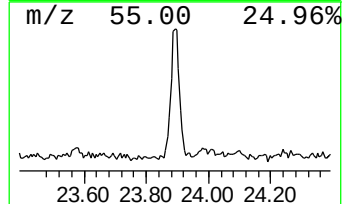
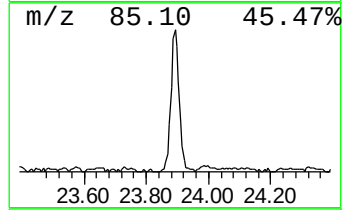
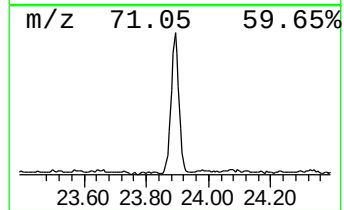
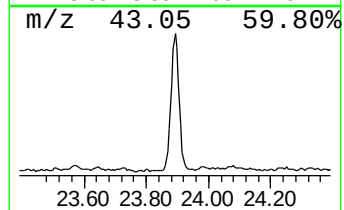
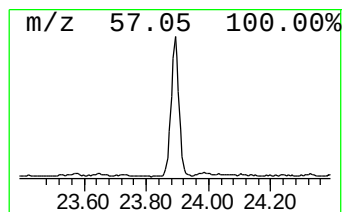
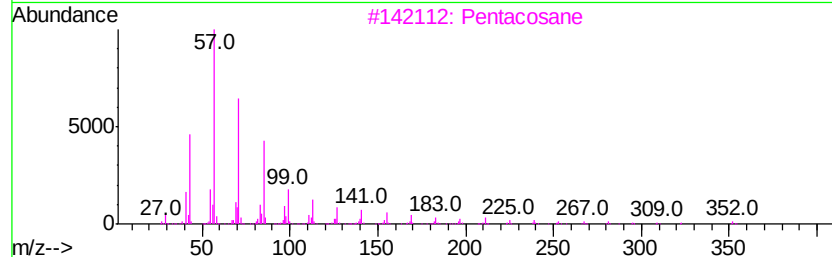
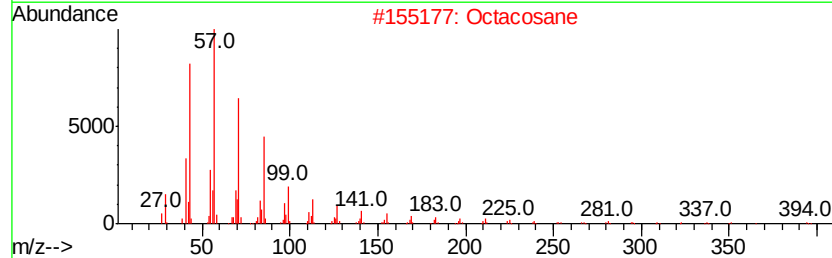
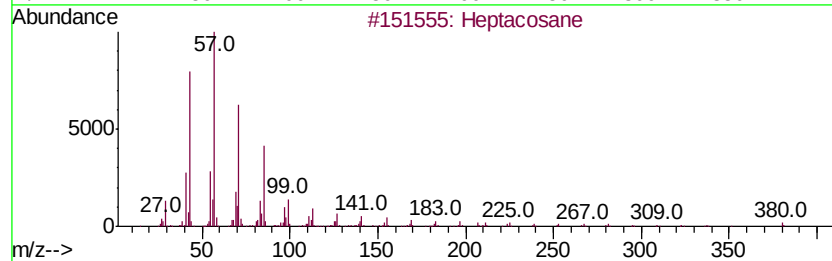
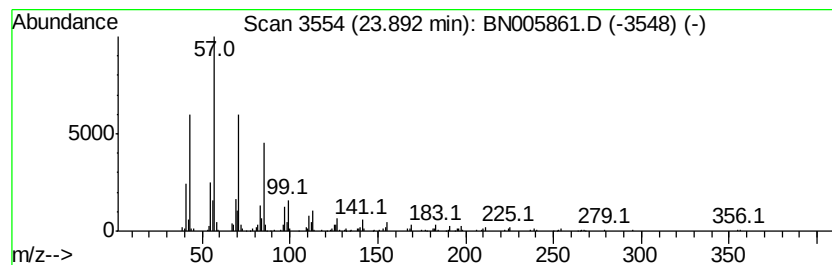
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.89 | 4.14 ng/ul | 425580 | Perylene-d12     | 23.39 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptacosane            | 380 | C27H56  | 000593-49-7 | 91   |
| 2    |    | Octacosane             | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Pentacosane            | 352 | C25H52  | 000629-99-2 | 91   |
| 4    |    | Heneicosane            | 296 | C21H44  | 000629-94-7 | 90   |
| 5    |    | Heptadecane, 2-methyl- | 254 | C18H38  | 001560-89-0 | 90   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052219\  
Data File : BN005861.D  
Acq On : 22 May 2019 21:10  
Operator : JU/SJ  
Sample : K2925-16  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A42A1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN051819MA.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 |
| (DEL) Alkane: Str... | 21.78 | 2.4     | ng/ul | 284840   | 5                     | 21.19 | 2351810 | 20.0 |
| (DEL) Alkane: Str... | 22.23 | 2.1     | ng/ul | 247673   | 5                     | 21.19 | 2351810 | 20.0 |
| Benzo[e]pyrene       | 23.20 | 2.1     | ng/ul | 215488   | 6                     | 23.39 | 2055060 | 20.0 |
| (DEL) Alkane: Str... | 23.89 | 4.1     | ng/ul | 425580   | 6                     | 23.39 | 2055060 | 20.0 |