

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101915\  
 Data File : BG019250.D  
 Acq On : 19 Oct 2015 21:42  
 Operator : UM/NP  
 Sample : PB86164BL  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SBLK64

## 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:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG101515.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         | 2.958       | 17            | 20          | 21           | rVB3     | 1194           | 1028          | 0.17%           | 0.018%        |
| 2         | 3.104       | 40            | 45          | 53           | rBV2     | 11508          | 19191         | 3.11%           | 0.335%        |
| 3         | 3.181       | 53            | 58          | 64           | rVB      | 13921          | 19462         | 3.16%           | 0.340%        |
| 4         | 3.392       | 93            | 94          | 99           | rVB3     | 659            | 959           | 0.16%           | 0.017%        |
| 5         | 3.439       | 99            | 102         | 107          | rVV2     | 3240           | 5323          | 0.86%           | 0.093%        |
| 6         | 3.480       | 107           | 109         | 110          | rVB      | 985            | 683           | 0.11%           | 0.012%        |
| 7         | 3.557       | 120           | 122         | 124          | rVB      | 742            | 637           | 0.10%           | 0.011%        |
| 8         | 3.580       | 124           | 126         | 129          | rBV2     | 782            | 796           | 0.13%           | 0.014%        |
| 9         | 3.774       | 157           | 159         | 165          | rBV2     | 571            | 1124          | 0.18%           | 0.020%        |
| 10        | 3.845       | 168           | 171         | 173          | rVB      | 597            | 656           | 0.11%           | 0.011%        |
| 11        | 3.950       | 187           | 189         | 193          | rVB2     | 617            | 791           | 0.13%           | 0.014%        |
| 12        | 4.015       | 197           | 200         | 204          | rVB4     | 556            | 800           | 0.13%           | 0.014%        |
| 13        | 4.139       | 219           | 221         | 224          | rVB3     | 585            | 665           | 0.11%           | 0.012%        |
| 14        | 4.379       | 260           | 262         | 265          | rVB      | 600            | 678           | 0.11%           | 0.012%        |
| 15        | 4.409       | 265           | 267         | 269          | rBV2     | 733            | 774           | 0.13%           | 0.014%        |
| 16        | 7.176       | 731           | 738         | 750          | rBV      | 66753          | 117510        | 19.07%          | 2.053%        |
| 17        | 7.329       | 757           | 764         | 772          | rBV      | 49245          | 80665         | 13.09%          | 1.409%        |
| 18        | 7.540       | 794           | 800         | 807          | rBV      | 68101          | 111487        | 18.09%          | 1.948%        |
| 19        | 8.005       | 873           | 879         | 885          | rBV      | 48824          | 76840         | 12.47%          | 1.343%        |
| 20        | 8.721       | 993           | 1001        | 1013         | rVV      | 86391          | 152173        | 24.70%          | 2.659%        |
| 21        | 9.168       | 1070          | 1077        | 1086         | rBV      | 75264          | 127637        | 20.72%          | 2.230%        |
| 22        | 9.891       | 1192          | 1200        | 1207         | rVB2     | 69292          | 122081        | 19.81%          | 2.133%        |
| 23        | 10.437      | 1286          | 1293        | 1300         | rBV      | 93787          | 162969        | 26.45%          | 2.848%        |
| 24        | 10.807      | 1350          | 1356        | 1366         | rVB      | 72070          | 126477        | 20.53%          | 2.210%        |
| 25        | 10.948      | 1373          | 1380        | 1387         | rBV      | 96978          | 170248        | 27.63%          | 2.975%        |
| 26        | 11.195      | 1419          | 1422        | 1425         | rBV2     | 419            | 637           | 0.10%           | 0.011%        |
| 27        | 12.394      | 1623          | 1626        | 1630         | rVB2     | 1458           | 1576          | 0.26%           | 0.028%        |
| 28        | 13.528      | 1817          | 1819        | 1823         | rBV2     | 445            | 631           | 0.10%           | 0.011%        |
| 29        | 14.039      | 1900          | 1906        | 1913         | rBV      | 220001         | 320643        | 52.04%          | 5.602%        |
| 30        | 14.327      | 1949          | 1955        | 1963         | rVB      | 208088         | 324313        | 52.64%          | 5.667%        |
| 31        | 14.638      | 2001          | 2008        | 2014         | rVB2     | 127884         | 199349        | 32.35%          | 3.483%        |
| 32        | 14.849      | 2037          | 2044        | 2054         | rBV      | 115471         | 187225        | 30.39%          | 3.271%        |
| 33        | 14.955      | 2060          | 2062        | 2064         | rVB2     | 788            | 693           | 0.11%           | 0.012%        |
| 34        | 15.625      | 2170          | 2176        | 2183         | rVB      | 291164         | 438835        | 71.22%          | 7.668%        |

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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:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG101515.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |        |        |         |
|----|--------|------|------|------|------|--------|--------|--------|---------|
| 35 | 15.748 | 2191 | 2197 | 2205 | rVB  | 117776 | 177292 | 28.77% | 3.098%  |
| 36 | 15.866 | 2213 | 2217 | 2221 | rBV  | 2930   | 3377   | 0.55%  | 0.059%  |
| 37 | 15.989 | 2234 | 2238 | 2241 | rVB2 | 392    | 647    | 0.11%  | 0.011%  |
| 38 | 17.164 | 2433 | 2438 | 2441 | rVV3 | 556    | 827    | 0.13%  | 0.014%  |
| 39 | 17.382 | 2468 | 2475 | 2481 | rBV2 | 181034 | 270684 | 43.93% | 4.730%  |
| 40 | 17.482 | 2485 | 2492 | 2499 | rBV  | 347338 | 529729 | 85.98% | 9.256%  |
| 41 | 17.758 | 2535 | 2539 | 2541 | rBV2 | 802    | 992    | 0.16%  | 0.017%  |
| 42 | 17.781 | 2541 | 2543 | 2546 | rBV  | 799    | 823    | 0.13%  | 0.014%  |
| 43 | 17.946 | 2570 | 2571 | 2576 | rBV2 | 763    | 940    | 0.15%  | 0.016%  |
| 44 | 18.345 | 2636 | 2639 | 2642 | rVB3 | 809    | 889    | 0.14%  | 0.016%  |
| 45 | 18.422 | 2650 | 2652 | 2655 | rBV2 | 621    | 806    | 0.13%  | 0.014%  |
| 46 | 18.669 | 2691 | 2694 | 2696 | rVB  | 699    | 709    | 0.12%  | 0.012%  |
| 47 | 18.821 | 2719 | 2720 | 2722 | rBV  | 967    | 711    | 0.12%  | 0.012%  |
| 48 | 18.921 | 2735 | 2737 | 2740 | rVB  | 780    | 848    | 0.14%  | 0.015%  |
| 49 | 19.003 | 2748 | 2751 | 2752 | rBV3 | 721    | 767    | 0.12%  | 0.013%  |
| 50 | 19.039 | 2754 | 2757 | 2758 | rVB2 | 784    | 736    | 0.12%  | 0.013%  |
| 51 | 19.056 | 2758 | 2760 | 2761 | rBV  | 829    | 724    | 0.12%  | 0.013%  |
| 52 | 19.074 | 2761 | 2763 | 2765 | rVB  | 755    | 714    | 0.12%  | 0.012%  |
| 53 | 19.133 | 2771 | 2773 | 2775 | rVV3 | 947    | 811    | 0.13%  | 0.014%  |
| 54 | 19.362 | 2811 | 2812 | 2815 | rVB3 | 994    | 924    | 0.15%  | 0.016%  |
| 55 | 19.403 | 2815 | 2819 | 2824 | rBV  | 3766   | 6479   | 1.05%  | 0.113%  |
| 56 | 19.468 | 2828 | 2830 | 2831 | rVV2 | 816    | 756    | 0.12%  | 0.013%  |
| 57 | 19.497 | 2833 | 2835 | 2837 | rBV3 | 902    | 699    | 0.11%  | 0.012%  |
| 58 | 19.579 | 2844 | 2849 | 2852 | rBV5 | 1080   | 2620   | 0.43%  | 0.046%  |
| 59 | 19.650 | 2856 | 2861 | 2865 | rBV2 | 2713   | 4074   | 0.66%  | 0.071%  |
| 60 | 19.767 | 2873 | 2881 | 2887 | rBV  | 430672 | 606267 | 98.40% | 10.593% |
| 61 | 19.914 | 2903 | 2906 | 2909 | rBV4 | 1282   | 1386   | 0.22%  | 0.024%  |
| 62 | 19.973 | 2912 | 2916 | 2918 | rBV5 | 1964   | 2771   | 0.45%  | 0.048%  |
| 63 | 19.991 | 2918 | 2919 | 2922 | rVB3 | 1297   | 1180   | 0.19%  | 0.021%  |
| 64 | 20.014 | 2922 | 2923 | 2924 | rBV  | 1198   | 730    | 0.12%  | 0.013%  |
| 65 | 20.061 | 2929 | 2931 | 2933 | rBV3 | 755    | 652    | 0.11%  | 0.011%  |
| 66 | 20.096 | 2933 | 2937 | 2940 | rBV6 | 1514   | 2041   | 0.33%  | 0.036%  |
| 67 | 20.126 | 2940 | 2942 | 2943 | rVV2 | 1195   | 755    | 0.12%  | 0.013%  |
| 68 | 20.155 | 2943 | 2947 | 2948 | rVB4 | 1573   | 1277   | 0.21%  | 0.022%  |
| 69 | 20.220 | 2954 | 2958 | 2959 | rBV3 | 2001   | 2569   | 0.42%  | 0.045%  |
| 70 | 20.284 | 2966 | 2969 | 2970 | rBV2 | 1383   | 1436   | 0.23%  | 0.025%  |
| 71 | 20.331 | 2975 | 2977 | 2979 | rVB3 | 1277   | 1110   | 0.18%  | 0.019%  |

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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG101515.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |        |        |         |         |
|-----|--------|------|------|------|------|--------|--------|---------|---------|
| 72  | 20.472 | 2999 | 3001 | 3003 | rBV3 | 2297   | 2453   | 0.40%   | 0.043%  |
| 73  | 20.519 | 3007 | 3009 | 3011 | rBV3 | 1639   | 1458   | 0.24%   | 0.025%  |
| 74  | 20.643 | 3029 | 3030 | 3031 | rVB  | 2786   | 983    | 0.16%   | 0.017%  |
| 75  | 20.672 | 3031 | 3035 | 3038 | rBV4 | 1686   | 3066   | 0.50%   | 0.054%  |
| 76  | 20.760 | 3048 | 3050 | 3051 | rBV2 | 1287   | 908    | 0.15%   | 0.016%  |
| 77  | 20.872 | 3067 | 3069 | 3070 | rBV2 | 1935   | 1615   | 0.26%   | 0.028%  |
| 78  | 20.907 | 3074 | 3075 | 3078 | rBV3 | 2532   | 2072   | 0.34%   | 0.036%  |
| 79  | 20.972 | 3084 | 3086 | 3088 | rBV3 | 1576   | 1149   | 0.19%   | 0.020%  |
| 80  | 20.995 | 3088 | 3090 | 3091 | rBV2 | 1862   | 889    | 0.14%   | 0.016%  |
| 81  | 21.213 | 3125 | 3127 | 3129 | rBV2 | 2067   | 2088   | 0.34%   | 0.036%  |
| 82  | 21.348 | 3148 | 3150 | 3151 | rBV2 | 2443   | 1474   | 0.24%   | 0.026%  |
| 83  | 21.548 | 3182 | 3184 | 3185 | rBV2 | 2289   | 1440   | 0.23%   | 0.025%  |
| 84  | 21.647 | 3194 | 3201 | 3209 | rBV  | 203150 | 341256 | 55.39%  | 5.963%  |
| 85  | 21.777 | 3220 | 3223 | 3224 | rBV2 | 2949   | 2710   | 0.44%   | 0.047%  |
| 86  | 22.059 | 3269 | 3271 | 3272 | rBV2 | 2583   | 1945   | 0.32%   | 0.034%  |
| 87  | 22.170 | 3288 | 3290 | 3291 | rBV  | 2610   | 1823   | 0.30%   | 0.032%  |
| 88  | 22.893 | 3412 | 3413 | 3415 | rBV2 | 2906   | 2048   | 0.33%   | 0.036%  |
| 89  | 23.921 | 3586 | 3588 | 3589 | rBV2 | 3069   | 1819   | 0.30%   | 0.032%  |
| 90  | 24.162 | 3627 | 3629 | 3630 | rBV  | 3187   | 2007   | 0.33%   | 0.035%  |
| 91  | 24.632 | 3699 | 3709 | 3721 | rBV  | 225089 | 616143 | 100.00% | 10.766% |
| 92  | 24.850 | 3737 | 3746 | 3756 | rBV2 | 111499 | 309317 | 50.20%  | 5.405%  |
| 93  | 25.508 | 3857 | 3858 | 3860 | rBV2 | 3578   | 1993   | 0.32%   | 0.035%  |
| 94  | 28.345 | 4340 | 4341 | 4343 | rVB2 | 2843   | 1199   | 0.19%   | 0.021%  |
| 95  | 29.526 | 4540 | 4542 | 4543 | rBV2 | 3304   | 2366   | 0.38%   | 0.041%  |
| 96  | 29.591 | 4552 | 4553 | 4556 | rBV3 | 3222   | 2152   | 0.35%   | 0.038%  |
| 97  | 29.938 | 4609 | 4612 | 4614 | rVB4 | 2784   | 2102   | 0.34%   | 0.037%  |
| 98  | 30.155 | 4647 | 4649 | 4650 | rBV2 | 3311   | 2349   | 0.38%   | 0.041%  |
| 99  | 30.884 | 4770 | 4773 | 4774 | rBV3 | 3706   | 3976   | 0.65%   | 0.069%  |
| 100 | 32.117 | 4981 | 4983 | 4985 | rBV2 | 2409   | 2109   | 0.34%   | 0.037%  |

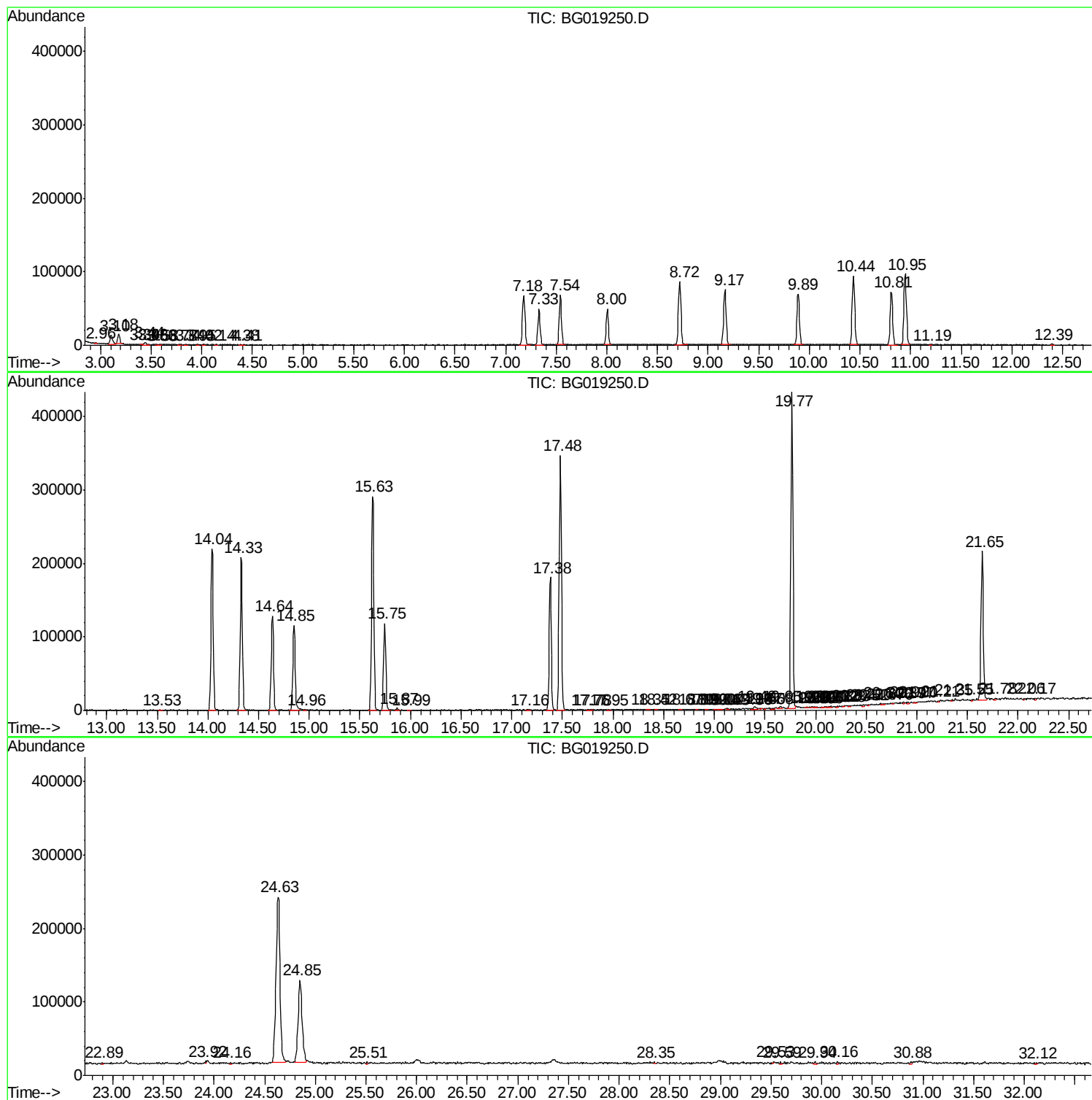
Sum of corrected areas: 5723217

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M  
Quant Title : SVOA CALIBRATION

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



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Quant Title : SVOA CALIBRATION

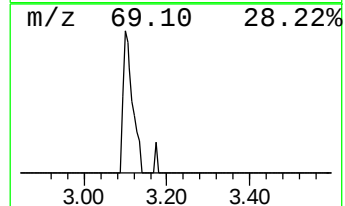
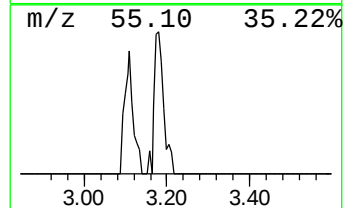
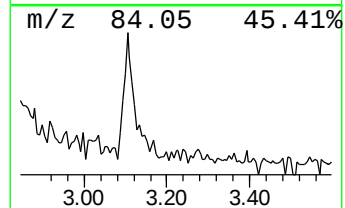
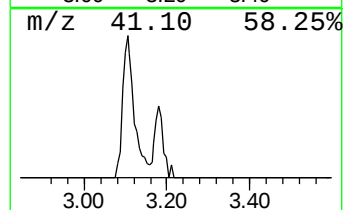
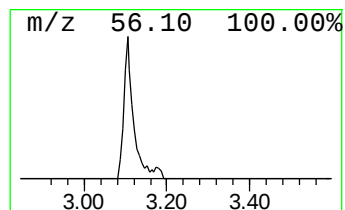
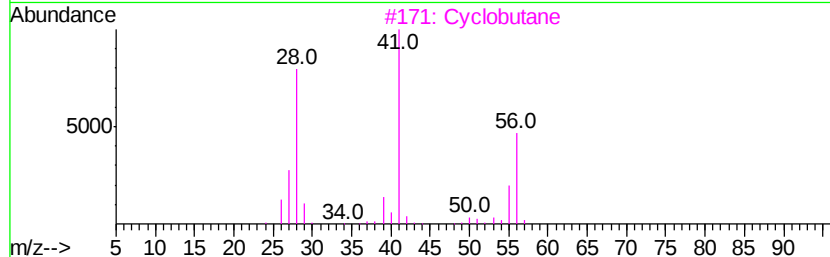
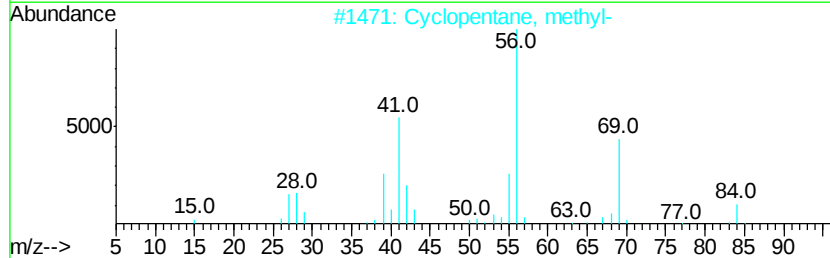
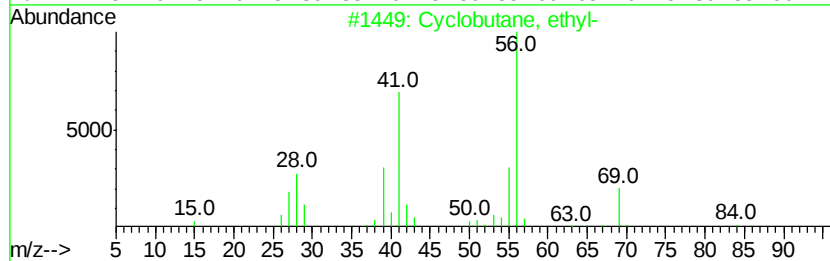
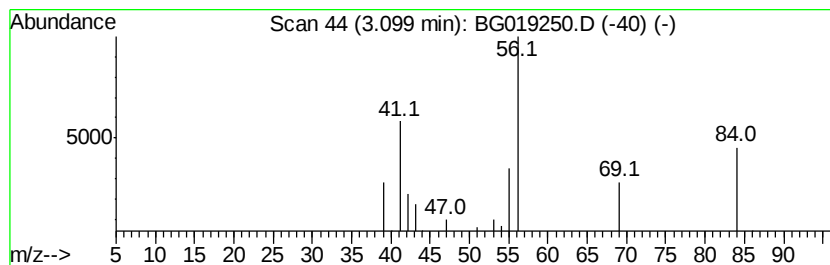
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Cyclobutane, ethyl- Concentration Rank 2

| R.T. | EstConc    | Area  | Relative to ISTD       | R.T. |
|------|------------|-------|------------------------|------|
| 3.10 | 5.00 ng/ul | 19191 | 1,4-Dichlorobenzene-d4 | 8.00 |

| Hit# | of | Tentative ID          | MW | MolForm | CAS#        | Qual |
|------|----|-----------------------|----|---------|-------------|------|
| 1    | 5  | Cyclobutane, ethyl-   | 84 | C6H12   | 004806-61-5 | 50   |
| 2    |    | Cyclopentane, methyl- | 84 | C6H12   | 000096-37-7 | 45   |
| 3    |    | Cyclobutane           | 56 | C4H8    | 000287-23-0 | 43   |
| 4    |    | Cyclobutane, ethyl-   | 84 | C6H12   | 004806-61-5 | 40   |
| 5    |    | 1-Pentene, 2-methyl-  | 84 | C6H12   | 000763-29-1 | 38   |



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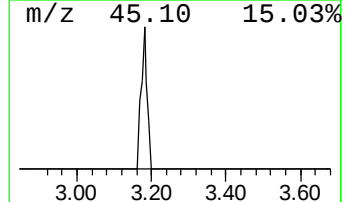
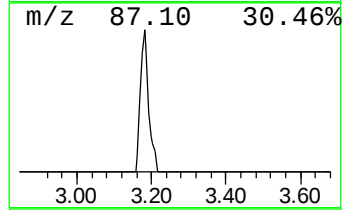
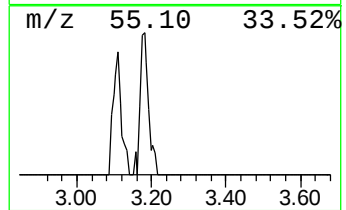
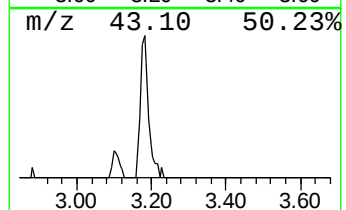
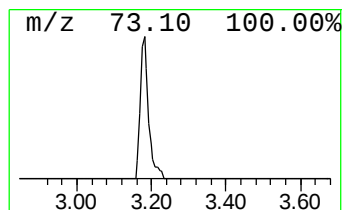
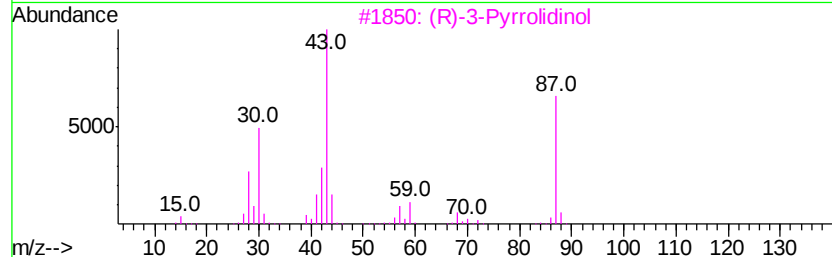
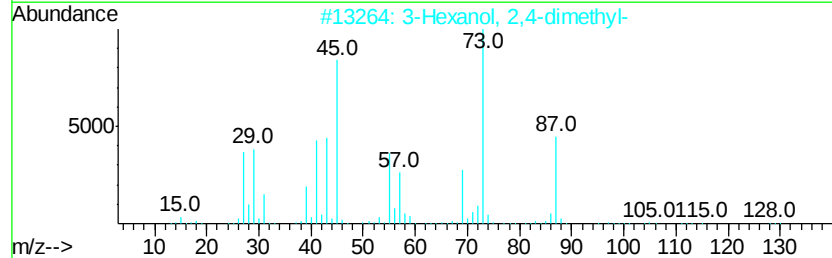
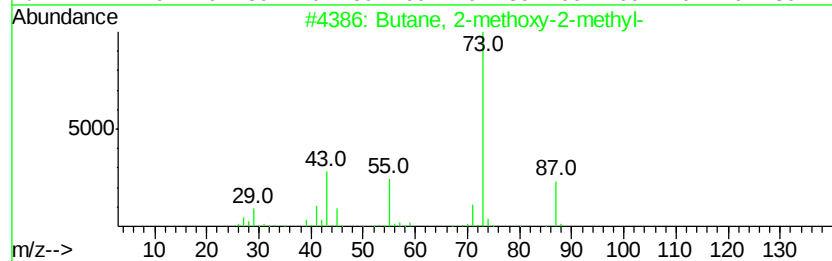
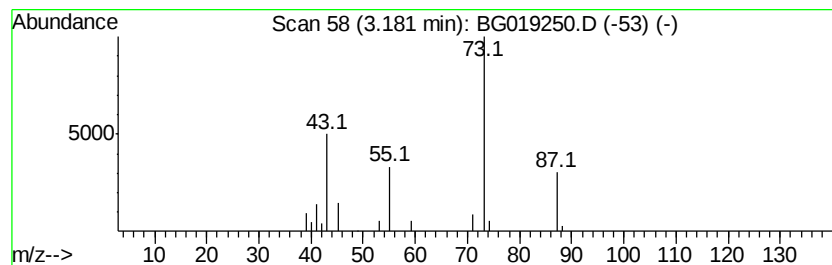
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 1

| R.T. | EstConc    | Area  | Relative to ISTD       | R.T. |
|------|------------|-------|------------------------|------|
| 3.18 | 5.07 ng/ul | 19462 | 1,4-Dichlorobenzene-d4 | 8.00 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 72   |
| 2    |    | 3-Hexanol, 2,4-dimethyl-    | 130 | C8H18O  | 013432-25-2 | 36   |
| 3    |    | (R)-3-Pyrrolidinol          | 87  | C4H9NO  | 002799-21-5 | 9    |
| 4    |    | 2-Methyl-5-hexen-3-ol       | 114 | C7H14O  | 032815-70-6 | 9    |
| 5    |    | 3-Pentanol, 2,4-dimethyl-   | 116 | C7H16O  | 000600-36-2 | 9    |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG101915\  
Data File : BG019250.D  
Acq On : 19 Oct 2015 21:42  
Operator : UM/NP  
Sample : PB86164BL  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SBLK64

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG101515.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 |
| Cyclobutane, ethyl-  | 3.10 | 5.0     | ng/ul | 19191    | 1                     | 8.00 | 76840 | 20.0 |
| Butane, 2-methoxy... | 3.18 | 5.1     | ng/ul | 19462    | 1                     | 8.00 | 76840 | 20.0 |