

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052815\  
 Data File : BG017352.D  
 Acq On : 29 May 2015 9:21  
 Operator : TP/IZ  
 Sample : G2294-05  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HY-SB403B(5-5.5)

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % 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\8270-BG051315.M  
 Title : ASP BNA STANDARDS FOR 5 POINT 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         | 4.763       | 349           | 353         | 359          | rVB      | 26750          | 36040         | 2.27%           | 0.145%        |
| 2         | 5.251       | 430           | 436         | 449          | rBV      | 420356         | 599758        | 37.70%          | 2.415%        |
| 3         | 6.855       | 703           | 709         | 719          | rVB      | 440856         | 684124        | 43.00%          | 2.754%        |
| 4         | 7.195       | 760           | 767         | 775          | rBV      | 452578         | 674335        | 42.39%          | 2.715%        |
| 5         | 7.654       | 837           | 845         | 853          | rVB      | 129454         | 192472        | 12.10%          | 0.775%        |
| 6         | 7.971       | 891           | 899         | 906          | rBV      | 298053         | 463334        | 29.12%          | 1.865%        |
| 7         | 8.817       | 1036          | 1043        | 1050         | rBV      | 263947         | 441626        | 27.76%          | 1.778%        |
| 8         | 10.444      | 1313          | 1320        | 1326         | rBV      | 165150         | 271056        | 17.04%          | 1.091%        |
| 9         | 12.930      | 1736          | 1743        | 1750         | rBV      | 549561         | 781961        | 49.15%          | 3.148%        |
| 10        | 13.770      | 1881          | 1886        | 1895         | rVB      | 44738          | 65705         | 4.13%           | 0.265%        |
| 11        | 14.311      | 1970          | 1978        | 1985         | rBV2     | 236294         | 365009        | 22.94%          | 1.470%        |
| 12        | 14.375      | 1985          | 1989        | 1994         | rVB      | 34904          | 46774         | 2.94%           | 0.188%        |
| 13        | 14.710      | 2041          | 2046        | 2051         | rBV2     | 17087          | 24096         | 1.51%           | 0.097%        |
| 14        | 15.362      | 2151          | 2157        | 2162         | rVB3     | 24816          | 36905         | 2.32%           | 0.149%        |
| 15        | 15.809      | 2226          | 2233        | 2241         | rBV      | 538766         | 737561        | 46.36%          | 2.969%        |
| 16        | 16.032      | 2267          | 2271        | 2279         | rBV2     | 13681          | 29973         | 1.88%           | 0.121%        |
| 17        | 16.819      | 2395          | 2405        | 2411         | rBV9     | 18997          | 45152         | 2.84%           | 0.182%        |
| 18        | 16.878      | 2411          | 2415        | 2422         | rVB      | 25234          | 37177         | 2.34%           | 0.150%        |
| 19        | 17.060      | 2440          | 2446        | 2450         | rBV      | 340919         | 476070        | 29.92%          | 1.917%        |
| 20        | 17.101      | 2450          | 2453        | 2460         | rVV      | 413595         | 538342        | 33.84%          | 2.167%        |
| 21        | 17.195      | 2464          | 2469        | 2474         | rVV      | 87339          | 131326        | 8.25%           | 0.529%        |
| 22        | 17.248      | 2474          | 2478        | 2484         | rVB2     | 19622          | 30886         | 1.94%           | 0.124%        |
| 23        | 17.442      | 2505          | 2511        | 2512         | rBV2     | 17164          | 25479         | 1.60%           | 0.103%        |
| 24        | 17.472      | 2512          | 2516        | 2520         | rVB      | 47209          | 64149         | 4.03%           | 0.258%        |
| 25        | 17.936      | 2586          | 2595        | 2598         | rBV      | 53474          | 87319         | 5.49%           | 0.352%        |
| 26        | 17.983      | 2598          | 2603        | 2609         | rVV2     | 98187          | 185683        | 11.67%          | 0.748%        |
| 27        | 18.065      | 2612          | 2617        | 2622         | rVB2     | 44019          | 66490         | 4.18%           | 0.268%        |
| 28        | 18.135      | 2622          | 2629        | 2632         | rBV3     | 81680          | 157486        | 9.90%           | 0.634%        |
| 29        | 18.171      | 2632          | 2635        | 2641         | rVB2     | 112370         | 155797        | 9.79%           | 0.627%        |
| 30        | 18.253      | 2641          | 2649        | 2652         | rBV9     | 15888          | 29817         | 1.87%           | 0.120%        |
| 31        | 18.347      | 2658          | 2665        | 2669         | rBV      | 145162         | 197477        | 12.41%          | 0.795%        |
| 32        | 18.441      | 2677          | 2681        | 2685         | rVV      | 44709          | 57841         | 3.64%           | 0.233%        |
| 33        | 18.482      | 2685          | 2688        | 2692         | rVV2     | 14654          | 18717         | 1.18%           | 0.075%        |
| 34        | 18.535      | 2692          | 2697        | 2700         | rVV3     | 44982          | 58915         | 3.70%           | 0.237%        |

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 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HY-SB403B(5-5.5)

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % 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\8270-BG051315.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |         |         |        |
|----|--------|------|------|------|------|--------|---------|---------|--------|
| 35 | 18.688 | 2714 | 2723 | 2727 | rBV2 | 29210  | 46954   | 2.95%   | 0.189% |
| 36 | 18.741 | 2727 | 2732 | 2734 | rBV3 | 14634  | 22673   | 1.43%   | 0.091% |
| 37 | 18.776 | 2734 | 2738 | 2742 | rVB3 | 18378  | 23191   | 1.46%   | 0.093% |
| 38 | 18.858 | 2747 | 2752 | 2757 | rBV3 | 35122  | 70917   | 4.46%   | 0.286% |
| 39 | 18.929 | 2760 | 2764 | 2766 | rVV5 | 28885  | 39371   | 2.47%   | 0.159% |
| 40 | 18.999 | 2773 | 2776 | 2785 | rVB8 | 26254  | 55708   | 3.50%   | 0.224% |
| 41 | 19.123 | 2792 | 2797 | 2804 | rBV  | 746390 | 994244  | 62.50%  | 4.003% |
| 42 | 19.193 | 2804 | 2809 | 2811 | rBV4 | 12470  | 16590   | 1.04%   | 0.067% |
| 43 | 19.222 | 2811 | 2814 | 2817 | rBV2 | 23393  | 29918   | 1.88%   | 0.120% |
| 44 | 19.316 | 2825 | 2830 | 2831 | rBV4 | 17420  | 20626   | 1.30%   | 0.083% |
| 45 | 19.369 | 2836 | 2839 | 2842 | rVV  | 35810  | 49714   | 3.12%   | 0.200% |
| 46 | 19.405 | 2842 | 2845 | 2849 | rVB6 | 15120  | 20341   | 1.28%   | 0.082% |
| 47 | 19.487 | 2855 | 2859 | 2868 | rVB  | 684713 | 1032735 | 64.92%  | 4.158% |
| 48 | 19.563 | 2868 | 2872 | 2880 | rVB3 | 49720  | 92809   | 5.83%   | 0.374% |
| 49 | 19.692 | 2880 | 2894 | 2898 | rBV  | 847201 | 1154861 | 72.59%  | 4.649% |
| 50 | 19.728 | 2898 | 2900 | 2905 | rVB  | 66000  | 80757   | 5.08%   | 0.325% |
| 51 | 19.810 | 2909 | 2914 | 2921 | rBV4 | 50428  | 123467  | 7.76%   | 0.497% |
| 52 | 19.945 | 2933 | 2937 | 2938 | rBV3 | 45834  | 55711   | 3.50%   | 0.224% |
| 53 | 19.980 | 2940 | 2943 | 2950 | rVB  | 119262 | 182119  | 11.45%  | 0.733% |
| 54 | 20.086 | 2956 | 2961 | 2965 | rBV2 | 97388  | 129184  | 8.12%   | 0.520% |
| 55 | 20.139 | 2965 | 2970 | 2975 | rVB2 | 84514  | 145552  | 9.15%   | 0.586% |
| 56 | 20.186 | 2975 | 2978 | 2982 | rBV3 | 22652  | 27473   | 1.73%   | 0.111% |
| 57 | 20.221 | 2982 | 2984 | 2986 | rBV2 | 18895  | 20613   | 1.30%   | 0.083% |
| 58 | 20.280 | 2991 | 2994 | 2998 | rVV2 | 56610  | 70683   | 4.44%   | 0.285% |
| 59 | 20.327 | 2998 | 3002 | 3006 | rVB3 | 63503  | 88617   | 5.57%   | 0.357% |
| 60 | 20.392 | 3011 | 3013 | 3016 | rBV3 | 15344  | 19515   | 1.23%   | 0.079% |
| 61 | 20.509 | 3028 | 3033 | 3035 | rBV6 | 23598  | 31633   | 1.99%   | 0.127% |
| 62 | 20.574 | 3041 | 3044 | 3046 | rBV3 | 21346  | 23654   | 1.49%   | 0.095% |
| 63 | 20.644 | 3054 | 3056 | 3060 | rVB5 | 20599  | 19601   | 1.23%   | 0.079% |
| 64 | 20.697 | 3060 | 3065 | 3067 | rBV6 | 23750  | 42750   | 2.69%   | 0.172% |
| 65 | 20.732 | 3067 | 3071 | 3077 | rVB  | 53198  | 86733   | 5.45%   | 0.349% |
| 66 | 20.897 | 3092 | 3099 | 3102 | rBV4 | 73873  | 134898  | 8.48%   | 0.543% |
| 67 | 20.932 | 3102 | 3105 | 3108 | rVV  | 87943  | 118238  | 7.43%   | 0.476% |
| 68 | 20.967 | 3108 | 3111 | 3117 | rVV3 | 126403 | 249118  | 15.66%  | 1.003% |
| 69 | 21.026 | 3117 | 3121 | 3131 | rVB3 | 60781  | 124118  | 7.80%   | 0.500% |
| 70 | 21.114 | 3133 | 3136 | 3137 | rBV3 | 23862  | 24752   | 1.56%   | 0.100% |
| 71 | 21.244 | 3148 | 3158 | 3162 | rBV3 | 776898 | 1590900 | 100.00% | 6.405% |

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 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HY-SB403B(5-5.5)

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % 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\8270-BG051315.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 21.285 | 3162 | 3165 | 3174 | rVB  | 558840 | 735455  | 46.23% | 2.961% |
| 73  | 21.402 | 3181 | 3185 | 3190 | rBV  | 170515 | 195977  | 12.32% | 0.789% |
| 74  | 21.514 | 3201 | 3204 | 3207 | rVB  | 50795  | 62011   | 3.90%  | 0.250% |
| 75  | 21.567 | 3207 | 3213 | 3217 | rVV2 | 87600  | 149140  | 9.37%  | 0.600% |
| 76  | 21.602 | 3217 | 3219 | 3224 | rVB5 | 24559  | 33244   | 2.09%  | 0.134% |
| 77  | 21.737 | 3239 | 3242 | 3246 | rBV3 | 39495  | 53648   | 3.37%  | 0.216% |
| 78  | 21.796 | 3246 | 3252 | 3256 | rVV  | 125444 | 206799  | 13.00% | 0.833% |
| 79  | 21.849 | 3257 | 3261 | 3266 | rVB  | 67760  | 99495   | 6.25%  | 0.401% |
| 80  | 21.949 | 3275 | 3278 | 3282 | rVB3 | 41216  | 48430   | 3.04%  | 0.195% |
| 81  | 21.996 | 3282 | 3286 | 3288 | rVV2 | 62700  | 88832   | 5.58%  | 0.358% |
| 82  | 22.025 | 3288 | 3291 | 3297 | rVB4 | 83498  | 114535  | 7.20%  | 0.461% |
| 83  | 22.090 | 3297 | 3302 | 3310 | rVB7 | 63290  | 135431  | 8.51%  | 0.545% |
| 84  | 22.295 | 3331 | 3337 | 3347 | rBV  | 485846 | 735460  | 46.23% | 2.961% |
| 85  | 22.425 | 3355 | 3359 | 3370 | rVB2 | 97923  | 189666  | 11.92% | 0.764% |
| 86  | 22.566 | 3380 | 3383 | 3393 | rVB3 | 51728  | 99349   | 6.24%  | 0.400% |
| 87  | 22.824 | 3420 | 3427 | 3431 | rBV  | 557682 | 1220451 | 76.71% | 4.914% |
| 88  | 22.989 | 3450 | 3455 | 3462 | rVB  | 138561 | 205814  | 12.94% | 0.829% |
| 89  | 23.124 | 3474 | 3478 | 3486 | rBV3 | 39458  | 102486  | 6.44%  | 0.413% |
| 90  | 23.300 | 3502 | 3508 | 3517 | rVB  | 358813 | 726986  | 45.70% | 2.927% |
| 91  | 23.400 | 3518 | 3525 | 3532 | rVV  | 638304 | 1118119 | 70.28% | 4.502% |
| 92  | 23.494 | 3535 | 3541 | 3546 | rVV  | 306259 | 602125  | 37.85% | 2.424% |
| 93  | 23.541 | 3546 | 3549 | 3558 | rVB2 | 187477 | 350922  | 22.06% | 1.413% |
| 94  | 24.369 | 3686 | 3690 | 3696 | rVB2 | 40397  | 73334   | 4.61%  | 0.295% |
| 95  | 25.785 | 3921 | 3931 | 3941 | rVB  | 370597 | 1001204 | 62.93% | 4.031% |
| 96  | 25.891 | 3942 | 3949 | 3954 | rBV3 | 26450  | 76387   | 4.80%  | 0.308% |
| 97  | 26.044 | 3969 | 3975 | 3984 | rVB2 | 69397  | 165781  | 10.42% | 0.667% |
| 98  | 26.138 | 3986 | 3991 | 3997 | rBV2 | 43842  | 100928  | 6.34%  | 0.406% |
| 99  | 26.496 | 4040 | 4052 | 4066 | rBV2 | 262512 | 855390  | 53.77% | 3.444% |
| 100 | 26.855 | 4105 | 4113 | 4129 | rVB2 | 113353 | 415453  | 26.11% | 1.673% |

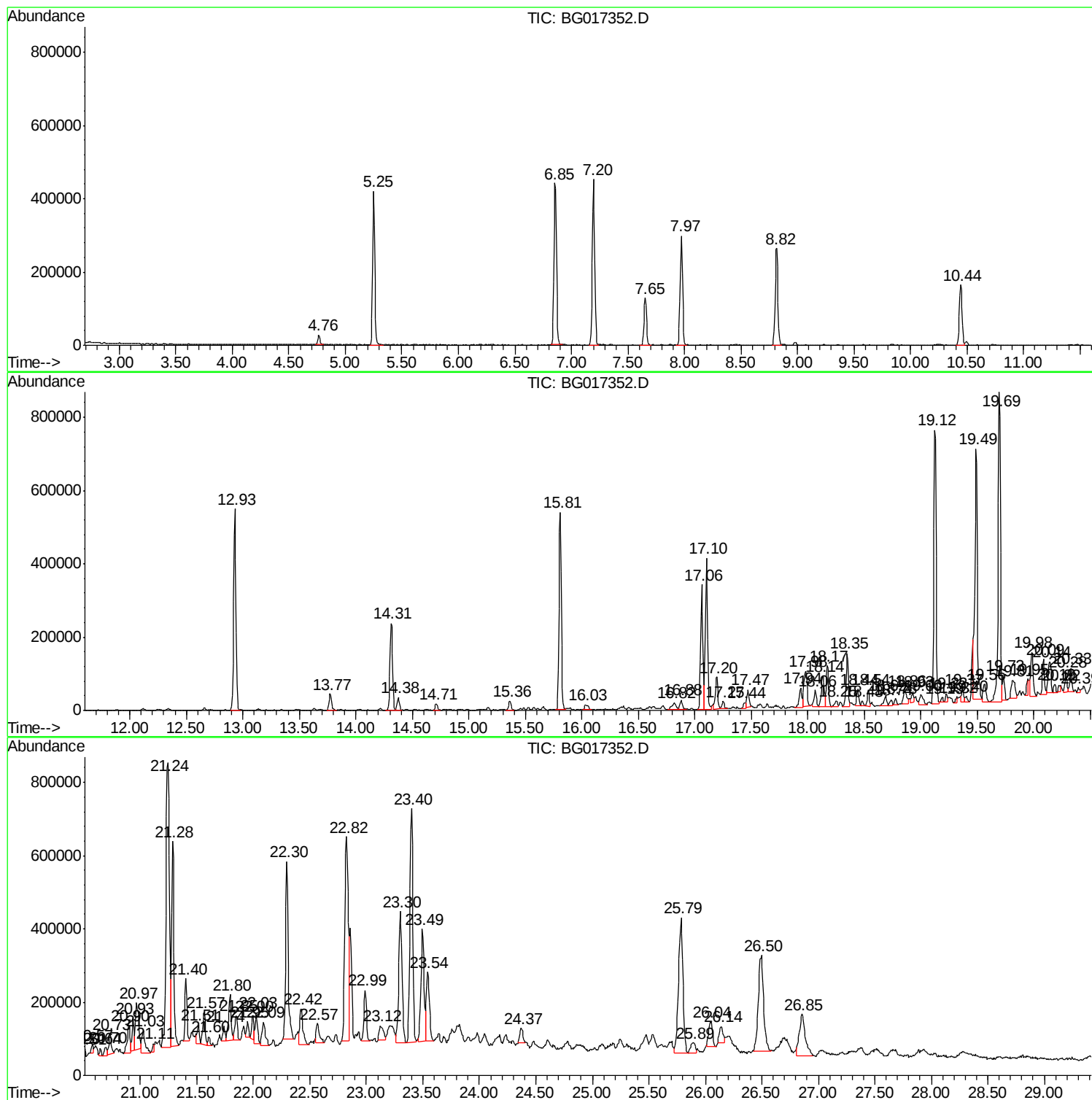
Sum of corrected areas: 24838442

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052815\  
Data File : BG017352.D  
Acq On : 29 May 2015 9:21  
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Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
HY-SB403B(5-5.5)

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052815\  
Data File : BG017352.D  
Acq On : 29 May 2015 9:21  
Operator : TP/IZ  
Sample : G2294-05  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
HY-SB403B(5-5.5)

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

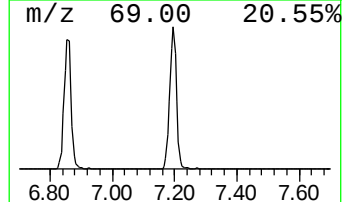
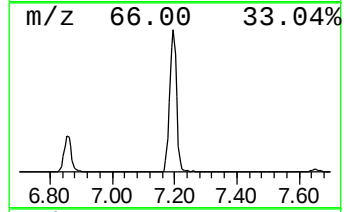
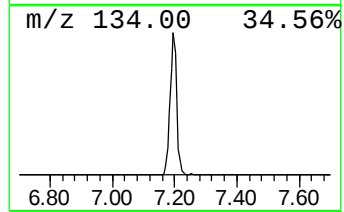
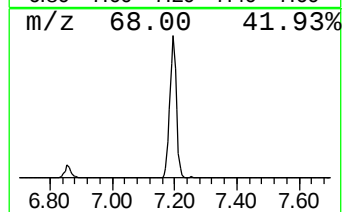
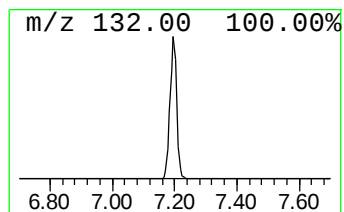
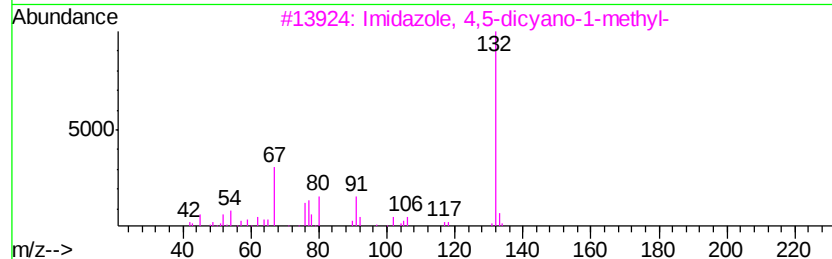
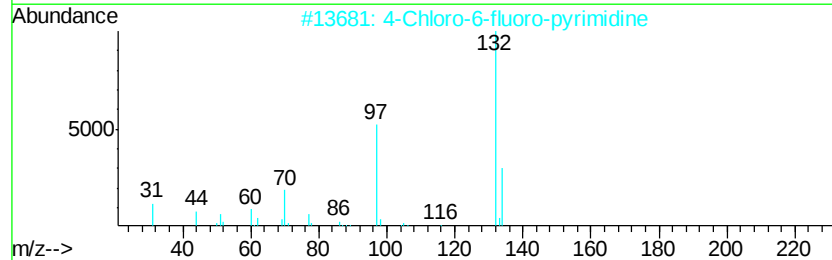
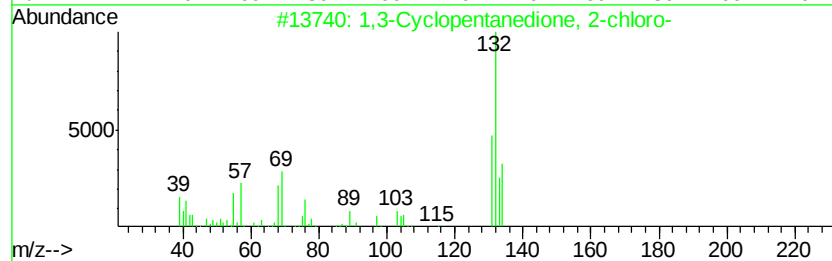
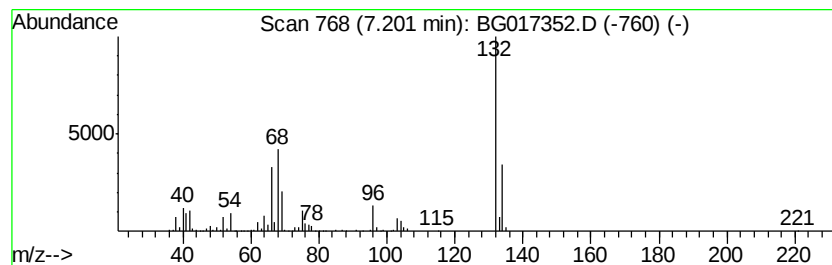
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown7.20 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 7.20 | 70.07 ng | 674335 | 1,4-Dichlorobenzene-d4 | 7.65 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1,3-Cyclopentanedione, 2-chloro- | 132 | C5H5ClO2  | 014203-19-1  | 38   |
| 2    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 27   |
| 3    |    | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4    | 019485-35-9  | 22   |
| 4    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 22   |
| 5    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 22   |



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Instrument :  
BNA\_G  
ClientSampleId :  
HY-SB403B(5-5.5)

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

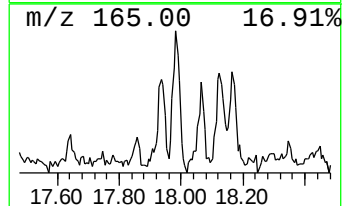
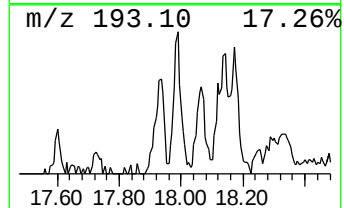
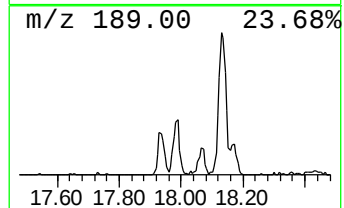
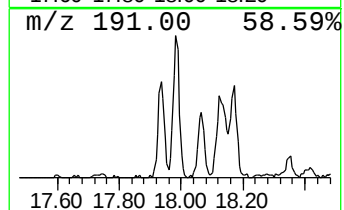
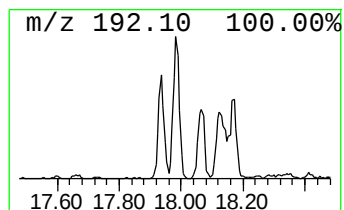
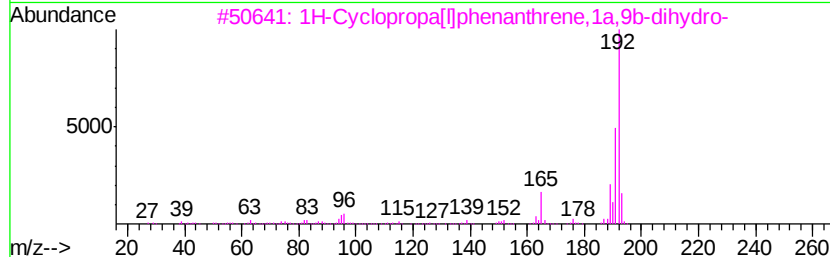
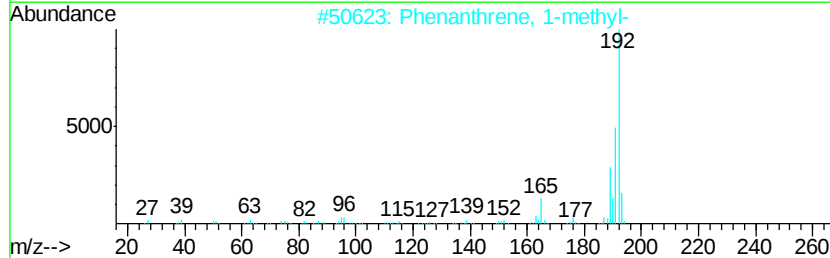
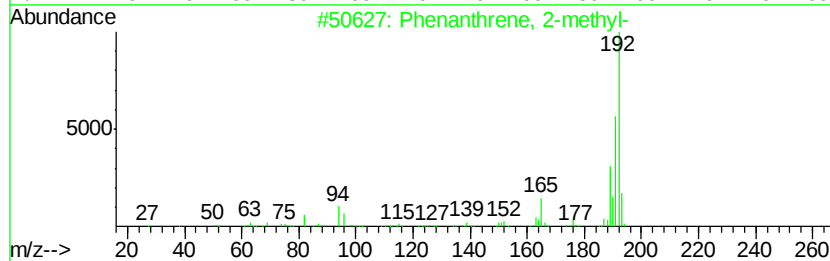
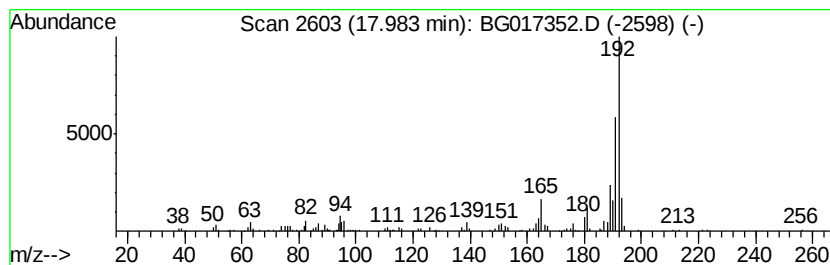
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.98 | 7.80 ng | 185683 | Phenanthrene-d10 | 17.06 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 96   |
| 2    |    | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 96   |
| 3    |    | 1H-Cyclopropa[1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 94   |
| 4    |    | Anthracene, 1-methyl-                 | 192 | C15H12  | 000610-48-0 | 90   |
| 5    |    | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 89   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052815\  
Data File : BG017352.D  
Acq On : 29 May 2015 9:21  
Operator : TP/IZ  
Sample : G2294-05  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

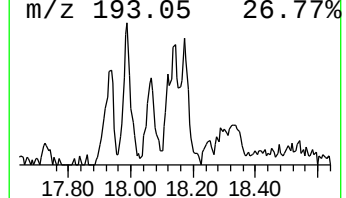
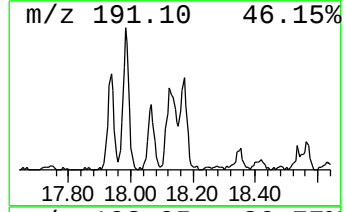
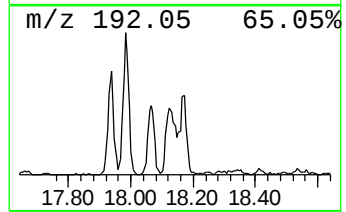
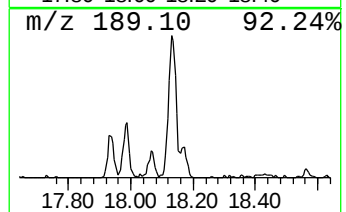
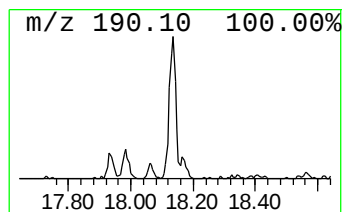
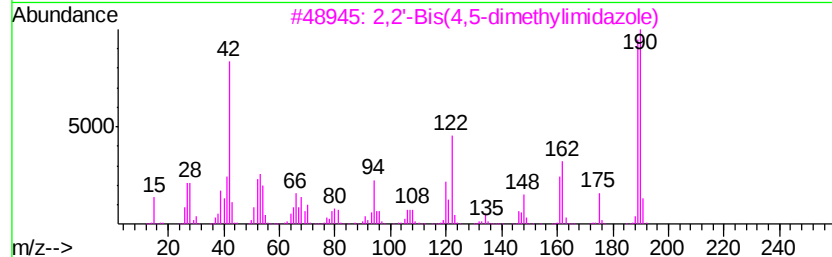
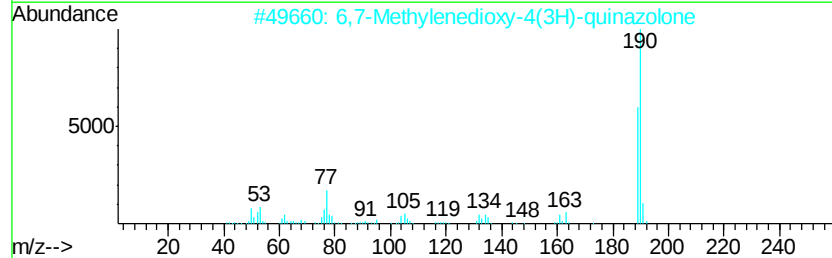
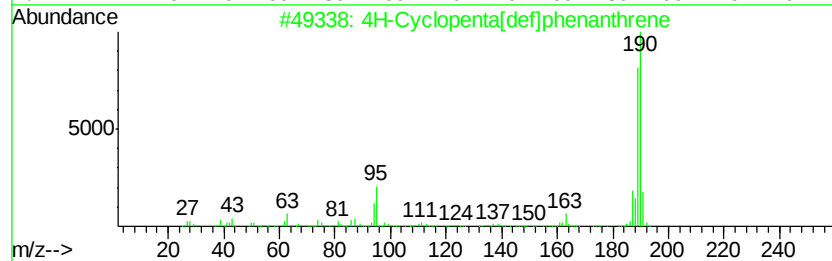
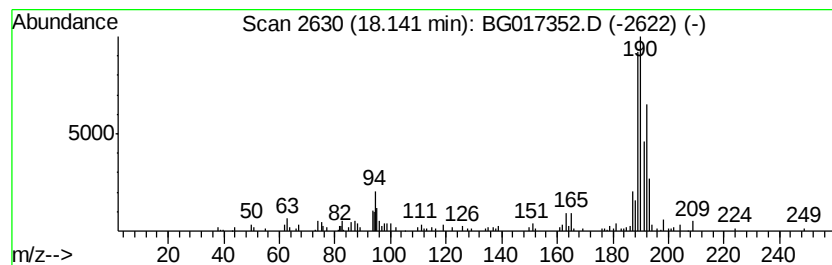
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BNA\_G  
ClientSampleId :  
HY-SB403B(5-5.5)

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 9

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 18.14     | 6.62 ng                             | 157486 | Phenanthrene-d10 | 17.06       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5 | 64   |
| 2         | 6,7-Methylenedioxy-4(3H)-quinazo... | 190    | C9H6N2O3         | 028310-11-4 | 25   |
| 3         | 2,2'-Bis(4,5-dimethylimidazole)     | 190    | C10H14N4         | 069286-06-2 | 25   |
| 4         | 3H-Indazole-3-carbonitrile, 3-(4... | 253    | C14H8ClN3        | 056630-97-8 | 17   |
| 5         | Isoquinoline, 1-chloro-3-ethyl-     | 191    | C11H10ClN        | 055150-52-2 | 16   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052815\  
Data File : BG017352.D  
Acq On : 29 May 2015 9:21  
Operator : TP/IZ  
Sample : G2294-05  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
HY-SB403B(5-5.5)

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

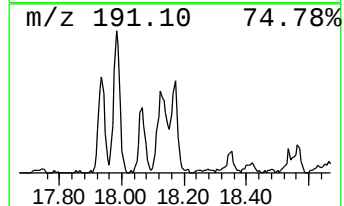
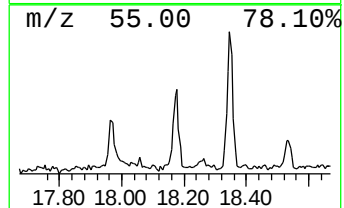
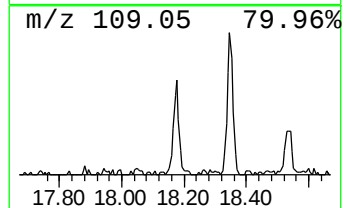
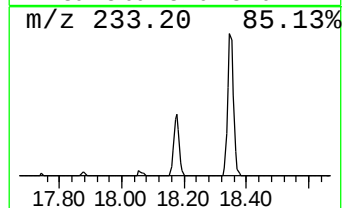
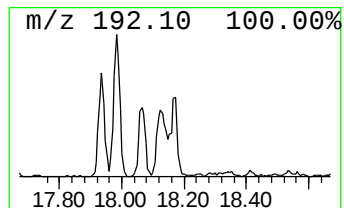
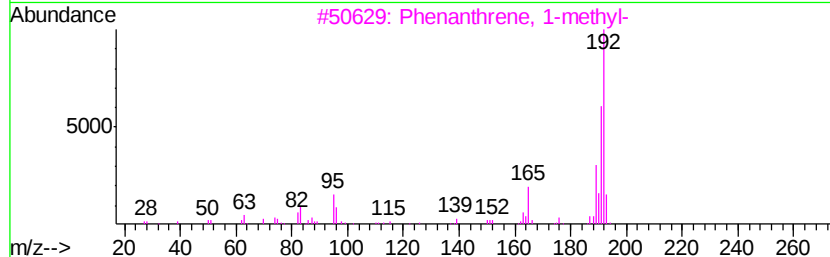
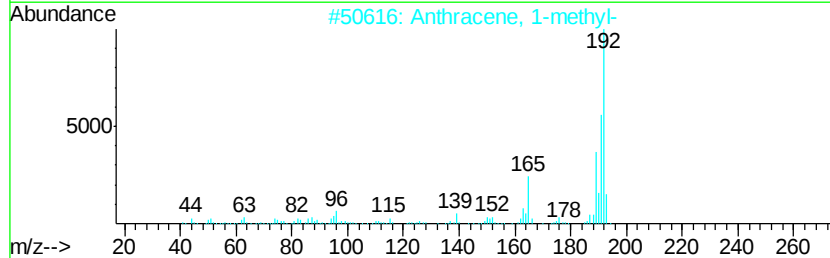
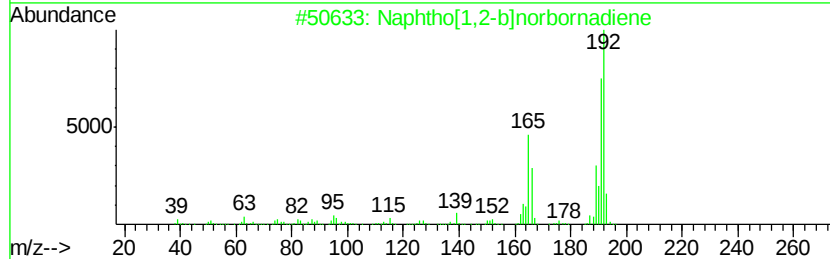
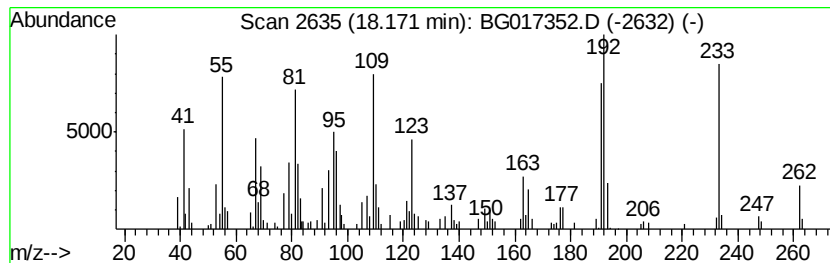
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 unknown18.17 Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.17 | 6.55 ng | 155797 | Phenanthrene-d10 | 17.06 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphtho[1,2-b]norbornadiene | 192 | C15H12  | 1000210-14-8 | 41   |
| 2    |    | Anthracene, 1-methyl-       | 192 | C15H12  | 000610-48-0  | 35   |
| 3    |    | Phenanthrene, 1-methyl-     | 192 | C15H12  | 000832-69-9  | 30   |
| 4    |    | Phenanthrene, 4-methyl-     | 192 | C15H12  | 000832-64-4  | 30   |
| 5    |    | 18-Norabietane              | 262 | C19H34  | 1000293-16-6 | 30   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052815\  
Data File : BG017352.D  
Acq On : 29 May 2015 9:21  
Operator : TP/IZ  
Sample : G2294-05  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

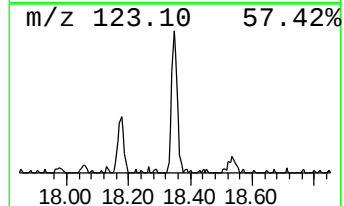
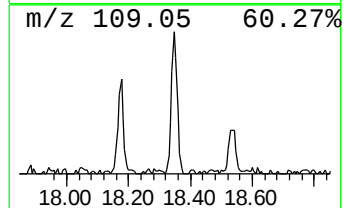
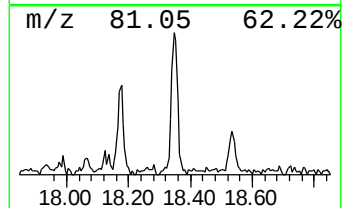
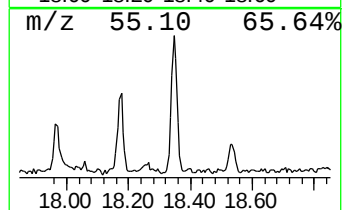
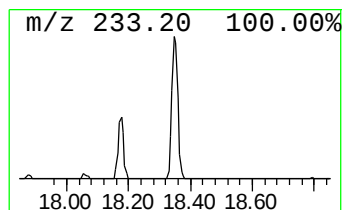
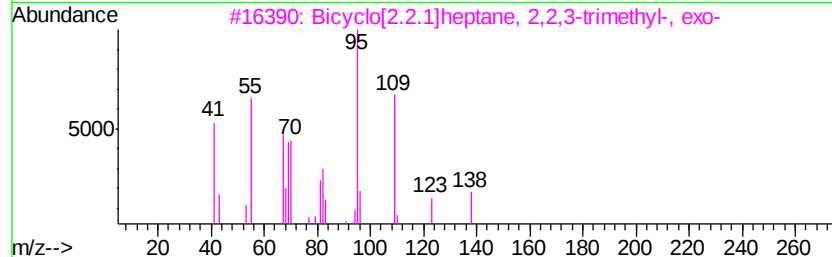
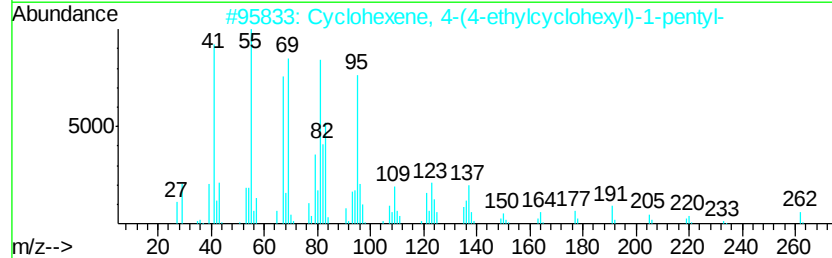
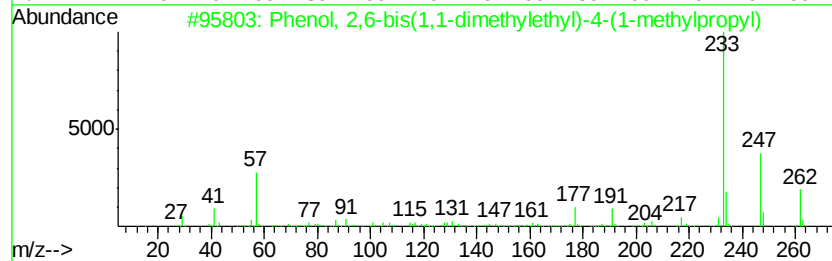
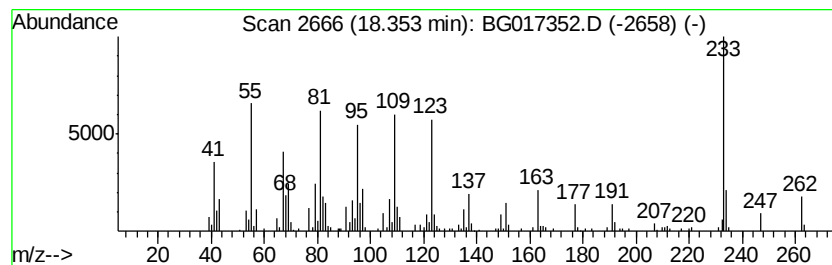
Instrument :  
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ClientSampleId :  
HY-SB403B(5-5.5)

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 unknown18.35 Concentration Rank 6

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 18.35     | 8.30 ng                             | 197477 | Phenanthrene-d10 | 17.06       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenol, 2,6-bis(1,1-dimethylethy... | 262    | C18H30O          | 017540-75-9 | 38   |
| 2         | Cyclohexene, 4-(4-ethylcyclohexy... | 262    | C19H34           | 301643-32-3 | 35   |
| 3         | Bicyclo[2.2.1]heptane, 2,2,3-tri... | 138    | C10H18           | 020536-41-8 | 27   |
| 4         | 2,6-Bis(1,1-dimethylethyl)-4-(1-... | 262    | C17H26O2         | 014035-34-8 | 22   |
| 5         | Bicyclo[2.2.1]heptane-2-carboxal... | 138    | C9H14O           | 015780-36-6 | 18   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052815\  
Data File : BG017352.D  
Acq On : 29 May 2015 9:21  
Operator : TP/IZ  
Sample : G2294-05  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

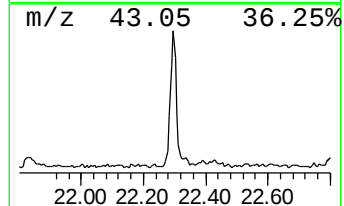
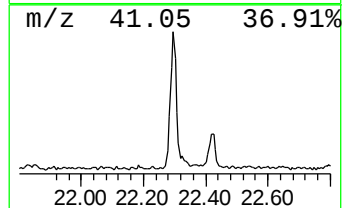
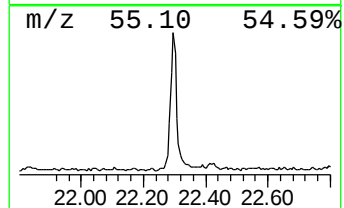
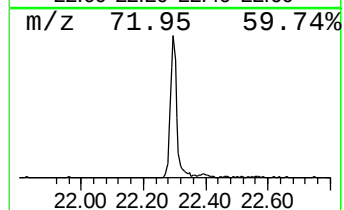
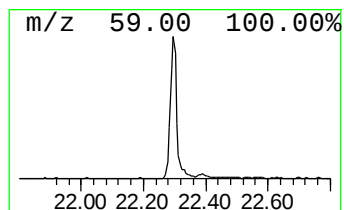
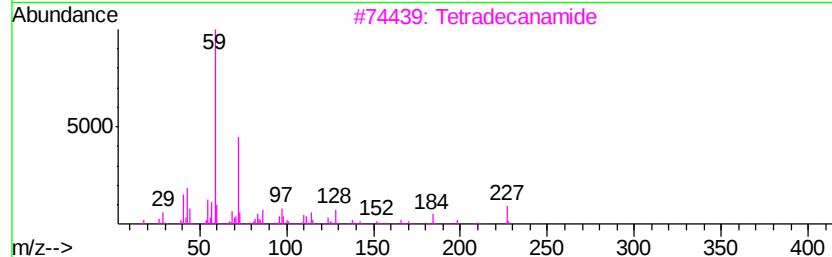
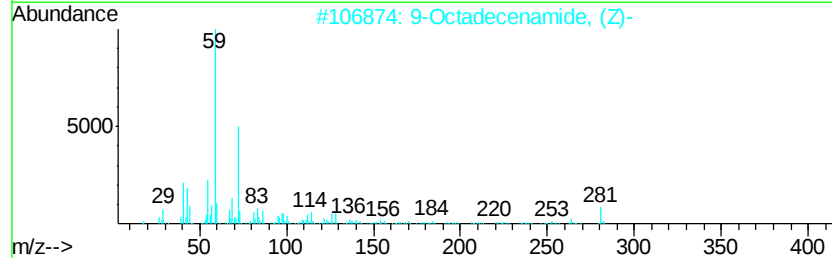
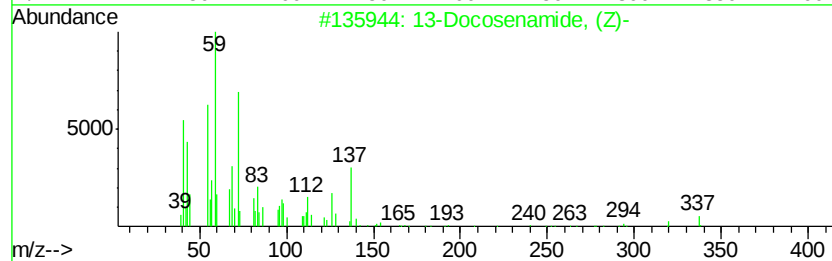
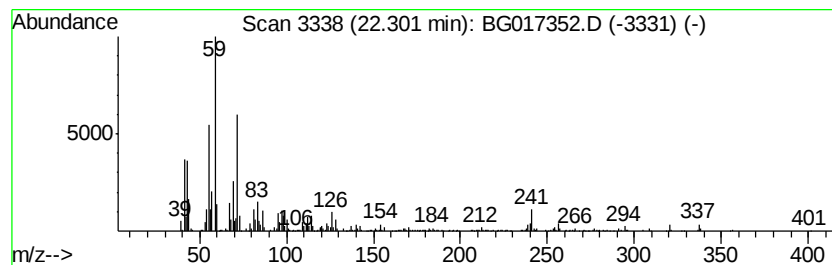
Instrument :  
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ClientSampleId :  
HY-SB403B(5-5.5)

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 13-Docosenamide, (Z)- Concentration Rank 5

| R.T.      | EstConc                        | Area   | Relative to ISTD |             | R.T.  |
|-----------|--------------------------------|--------|------------------|-------------|-------|
| 22.30     | 9.25 ng                        | 735460 | Chrysene-d12     |             | 21.25 |
| Hit# of 5 | Tentative ID                   | MW     | MolForm          | CAS#        | Qual  |
| 1         | 13-Docosenamide, (Z)-          | 337    | C22H43NO         | 000112-84-5 | 93    |
| 2         | 9-Octadecenamide, (Z)-         | 281    | C18H35NO         | 000301-02-0 | 83    |
| 3         | Tetradecanamide                | 227    | C14H29NO         | 000638-58-4 | 72    |
| 4         | Hexadecanamide                 | 255    | C16H33NO         | 000629-54-9 | 64    |
| 5         | Heptanamide, 4-ethyl-5-methyl- | 171    | C10H21NO         | 054789-40-1 | 58    |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052815\  
Data File : BG017352.D  
Acq On : 29 May 2015 9:21  
Operator : TP/IZ  
Sample : G2294-05  
Misc :  
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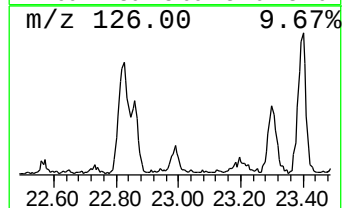
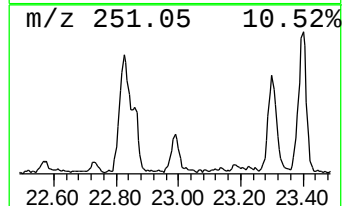
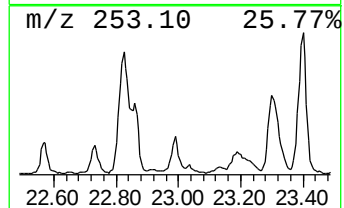
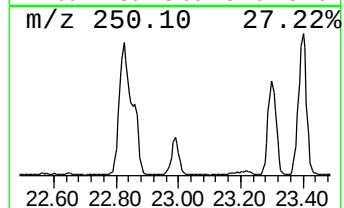
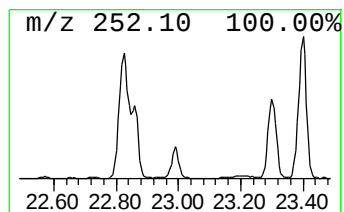
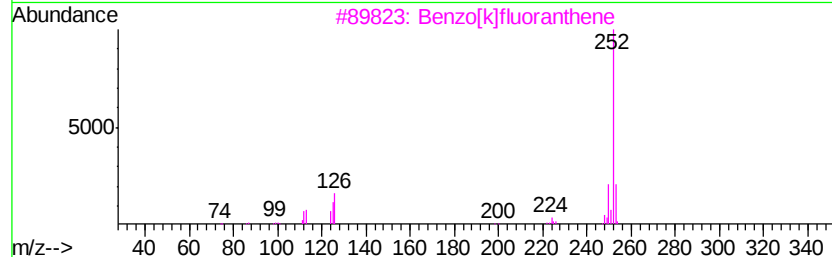
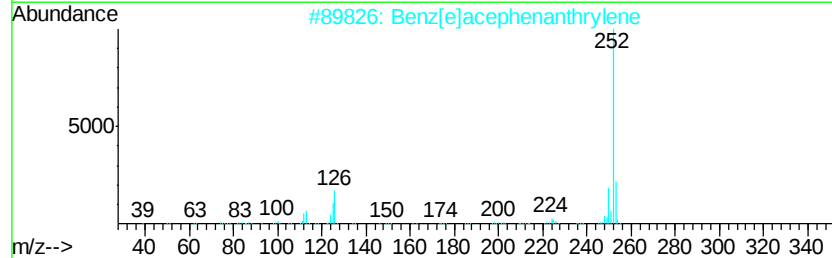
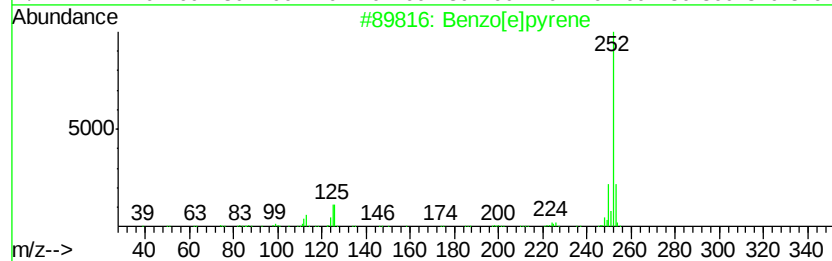
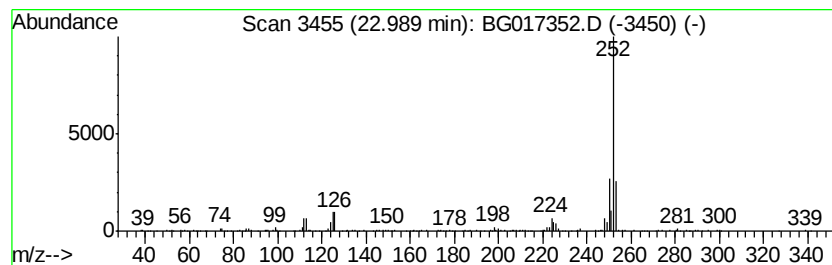
Instrument :  
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ClientSampleId :  
HY-SB403B(5-5.5)

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 Benzo[e]pyrene Concentration Rank 8

| R.T.    | EstConc                  | Area         | Relative to ISTD | R.T.      |
|---------|--------------------------|--------------|------------------|-----------|
| 22.99   | 6.84 ng                  | 205814       | Perylene-d12     | 23.49     |
| Hit# of | 5                        | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Benzo[e]pyrene           | 252 C20H12   | 000192-97-2      | 91        |
| 2       | Benz[e]acephenanthrylene | 252 C20H12   | 000205-99-2      | 90        |
| 3       | Benzo[k]fluoranthene     | 252 C20H12   | 000207-08-9      | 90        |
| 4       | Benzo[a]pyrene           | 252 C20H12   | 000050-32-8      | 81        |
| 5       | Perylene                 | 252 C20H12   | 000198-55-0      | 76        |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052815\  
Data File : BG017352.D  
Acq On : 29 May 2015 9:21  
Operator : TP/IZ  
Sample : G2294-05  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
HY-SB403B(5-5.5)

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| unknown7.20          | 7.20  | 70.1    | ng    | 674335   | 1                     | 7.65  | 192472  | 20.0 |
| Phenanthrene, 2-m... | 17.98 | 7.8     | ng    | 185683   | 4                     | 17.06 | 476070  | 20.0 |
| 4H-Cyclopenta[def... | 18.14 | 6.6     | ng    | 157486   | 4                     | 17.06 | 476070  | 20.0 |
| unknown18.17         | 18.17 | 6.5     | ng    | 155797   | 4                     | 17.06 | 476070  | 20.0 |
| unknown18.35         | 18.35 | 8.3     | ng    | 197477   | 4                     | 17.06 | 476070  | 20.0 |
| 13-Docosenamide, ... | 22.30 | 9.3     | ng    | 735460   | 5                     | 21.25 | 1590900 | 20.0 |
| Benzo[e]pyrene       | 22.99 | 6.8     | ng    | 205814   | 6                     | 23.49 | 602125  | 20.0 |