

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
 Data File : BG020633.D  
 Acq On : 31 Dec 2015 9:25  
 Operator : UM/SJ  
 Sample : G4802-13DL 30X  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 G9D88DL

## 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-BG123015.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      | 5.540    | 454        | 460      | 466       | rBV   | 15001       | 23075      | 2.10%        | 0.143%     |
| 2      | 7.697    | 822        | 827      | 836       | rBV2  | 17034       | 30857      | 2.80%        | 0.192%     |
| 3      | 8.061    | 882        | 889      | 898       | rVB   | 57862       | 100776     | 9.16%        | 0.625%     |
| 4      | 8.431    | 944        | 952      | 960       | rBB   | 60160       | 100451     | 9.13%        | 0.623%     |
| 5      | 9.166    | 1071       | 1077     | 1082      | rBB   | 14872       | 22222      | 2.02%        | 0.138%     |
| 6      | 10.112   | 1233       | 1238     | 1245      | rBB   | 15463       | 24076      | 2.19%        | 0.149%     |
| 7      | 10.294   | 1259       | 1269     | 1276      | rBV5  | 27075       | 81635      | 7.42%        | 0.507%     |
| 8      | 10.370   | 1276       | 1282     | 1286      | rBV   | 38105       | 74459      | 6.77%        | 0.462%     |
| 9      | 10.875   | 1362       | 1368     | 1371      | rVV   | 91987       | 164046     | 14.91%       | 1.018%     |
| 10     | 10.928   | 1371       | 1377     | 1388      | rVB   | 571968      | 1007720    | 91.57%       | 6.254%     |
| 11     | 11.721   | 1502       | 1512     | 1518      | rBV2  | 7741        | 20975      | 1.91%        | 0.130%     |
| 12     | 11.962   | 1548       | 1553     | 1558      | rVV2  | 10534       | 25830      | 2.35%        | 0.160%     |
| 13     | 12.056   | 1565       | 1569     | 1576      | rVB4  | 14650       | 26730      | 2.43%        | 0.166%     |
| 14     | 12.526   | 1639       | 1649     | 1658      | rBV   | 587839      | 977821     | 88.85%       | 6.069%     |
| 15     | 12.744   | 1674       | 1686     | 1696      | rBV   | 419562      | 720563     | 65.48%       | 4.472%     |
| 16     | 13.525   | 1808       | 1819     | 1825      | rBV   | 59335       | 102026     | 9.27%        | 0.633%     |
| 17     | 13.672   | 1838       | 1844     | 1847      | rBV4  | 12495       | 22251      | 2.02%        | 0.138%     |
| 18     | 13.725   | 1847       | 1853     | 1865      | rVB   | 187443      | 334351     | 30.38%       | 2.075%     |
| 19     | 14.013   | 1894       | 1902     | 1907      | rBV   | 237184      | 449996     | 40.89%       | 2.793%     |
| 20     | 14.066   | 1907       | 1911     | 1920      | rVB   | 160274      | 265606     | 24.14%       | 1.648%     |
| 21     | 14.154   | 1920       | 1926     | 1930      | rVB4  | 12817       | 23965      | 2.18%        | 0.149%     |
| 22     | 14.248   | 1937       | 1942     | 1946      | rBV   | 123002      | 198081     | 18.00%       | 1.229%     |
| 23     | 14.383   | 1959       | 1965     | 1966      | rBV2  | 20767       | 28872      | 2.62%        | 0.179%     |
| 24     | 14.418   | 1966       | 1971     | 1981      | rVB   | 87503       | 147976     | 13.45%       | 0.918%     |
| 25     | 14.659   | 2005       | 2012     | 2014      | rBV   | 62954       | 93041      | 8.45%        | 0.577%     |
| 26     | 14.694   | 2014       | 2018     | 2023      | rVV2  | 166103      | 267853     | 24.34%       | 1.662%     |
| 27     | 14.759   | 2023       | 2029     | 2036      | rVB   | 318971      | 520510     | 47.30%       | 3.230%     |
| 28     | 14.894   | 2046       | 2052     | 2062      | rBV   | 60138       | 137468     | 12.49%       | 0.853%     |
| 29     | 14.982   | 2062       | 2067     | 2074      | rBV2  | 15298       | 35642      | 3.24%        | 0.221%     |
| 30     | 15.082   | 2078       | 2084     | 2092      | rVB3  | 87252       | 179424     | 16.30%       | 1.114%     |
| 31     | 15.165   | 2092       | 2098     | 2103      | rBV   | 71506       | 102989     | 9.36%        | 0.639%     |
| 32     | 15.300   | 2114       | 2121     | 2127      | rBV3  | 66685       | 153919     | 13.99%       | 0.955%     |
| 33     | 15.358   | 2127       | 2131     | 2135      | rVB2  | 46492       | 58140      | 5.28%        | 0.361%     |
| 34     | 15.476   | 2143       | 2151     | 2154      | rBV4  | 51774       | 112863     | 10.26%       | 0.700%     |

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
 Data File : BG020633.D  
 Acq On : 31 Dec 2015 9:25  
 Operator : UM/SJ  
 Sample : G4802-13DL 30X  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 G9D88DL

## 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-BG123015.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |         |         |        |
|----|--------|------|------|------|------|--------|---------|---------|--------|
| 35 | 15.511 | 2154 | 2157 | 2161 | rVB3 | 35871  | 48784   | 4.43%   | 0.303% |
| 36 | 15.564 | 2161 | 2166 | 2171 | rBV  | 59949  | 87844   | 7.98%   | 0.545% |
| 37 | 15.617 | 2171 | 2175 | 2177 | rBV3 | 15337  | 24614   | 2.24%   | 0.153% |
| 38 | 15.646 | 2178 | 2180 | 2183 | rVV2 | 21969  | 23293   | 2.12%   | 0.145% |
| 39 | 15.687 | 2183 | 2187 | 2191 | rVB  | 59748  | 78954   | 7.17%   | 0.490% |
| 40 | 15.740 | 2191 | 2196 | 2206 | rVB  | 196058 | 352502  | 32.03%  | 2.188% |
| 41 | 15.834 | 2207 | 2212 | 2214 | rBV3 | 21041  | 34738   | 3.16%   | 0.216% |
| 42 | 15.946 | 2227 | 2231 | 2237 | rVB4 | 48659  | 78568   | 7.14%   | 0.488% |
| 43 | 16.152 | 2261 | 2266 | 2270 | rBV  | 80474  | 141270  | 12.84%  | 0.877% |
| 44 | 16.404 | 2305 | 2309 | 2315 | rVB5 | 44877  | 73232   | 6.65%   | 0.455% |
| 45 | 16.545 | 2328 | 2333 | 2336 | rBV2 | 17496  | 28311   | 2.57%   | 0.176% |
| 46 | 16.739 | 2358 | 2366 | 2371 | rBV3 | 65268  | 171809  | 15.61%  | 1.066% |
| 47 | 16.792 | 2371 | 2375 | 2380 | rVB2 | 62736  | 93748   | 8.52%   | 0.582% |
| 48 | 16.892 | 2387 | 2392 | 2397 | rVB  | 49804  | 77778   | 7.07%   | 0.483% |
| 49 | 17.098 | 2423 | 2427 | 2433 | rVB4 | 32679  | 49494   | 4.50%   | 0.307% |
| 50 | 17.168 | 2435 | 2439 | 2444 | rVB5 | 16680  | 29736   | 2.70%   | 0.185% |
| 51 | 17.256 | 2445 | 2454 | 2463 | rVB  | 82139  | 153431  | 13.94%  | 0.952% |
| 52 | 17.444 | 2479 | 2486 | 2489 | rBV  | 224631 | 380466  | 34.57%  | 2.361% |
| 53 | 17.485 | 2489 | 2493 | 2499 | rVV  | 753297 | 1100487 | 100.00% | 6.830% |
| 54 | 17.573 | 2504 | 2508 | 2512 | rVV  | 169969 | 235909  | 21.44%  | 1.464% |
| 55 | 17.632 | 2512 | 2518 | 2522 | rVB5 | 25491  | 56264   | 5.11%   | 0.349% |
| 56 | 17.850 | 2550 | 2555 | 2560 | rBV4 | 16394  | 32311   | 2.94%   | 0.201% |
| 57 | 17.955 | 2569 | 2573 | 2577 | rBV  | 18627  | 25586   | 2.32%   | 0.159% |
| 58 | 18.020 | 2580 | 2584 | 2591 | rVB  | 68173  | 97457   | 8.86%   | 0.605% |
| 59 | 18.167 | 2603 | 2609 | 2615 | rVB  | 39423  | 80435   | 7.31%   | 0.499% |
| 60 | 18.314 | 2628 | 2634 | 2638 | rVV  | 201364 | 310478  | 28.21%  | 1.927% |
| 61 | 18.367 | 2638 | 2643 | 2649 | rVV  | 213063 | 325336  | 29.56%  | 2.019% |
| 62 | 18.443 | 2651 | 2656 | 2661 | rVV  | 76579  | 119858  | 10.89%  | 0.744% |
| 63 | 18.508 | 2661 | 2667 | 2671 | rVV2 | 231517 | 473924  | 43.06%  | 2.941% |
| 64 | 18.549 | 2671 | 2674 | 2680 | rVB  | 146114 | 204549  | 18.59%  | 1.270% |
| 65 | 18.707 | 2698 | 2701 | 2706 | rVB  | 17657  | 24252   | 2.20%   | 0.151% |
| 66 | 18.807 | 2713 | 2718 | 2722 | rBV  | 79331  | 110977  | 10.08%  | 0.689% |
| 67 | 19.054 | 2757 | 2760 | 2765 | rVV  | 40251  | 63580   | 5.78%   | 0.395% |
| 68 | 19.101 | 2765 | 2768 | 2772 | rVV  | 37671  | 56664   | 5.15%   | 0.352% |
| 69 | 19.142 | 2772 | 2775 | 2778 | rVB2 | 26903  | 33653   | 3.06%   | 0.209% |
| 70 | 19.224 | 2783 | 2789 | 2794 | rBV2 | 126690 | 210743  | 19.15%  | 1.308% |
| 71 | 19.283 | 2794 | 2799 | 2803 | rBV4 | 50560  | 105942  | 9.63%   | 0.658% |

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
 Data File : BG020633.D  
 Acq On : 31 Dec 2015 9:25  
 Operator : UM/SJ  
 Sample : G4802-13DL 30X  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 G9D88DL

## 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-BG123015.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 19.365 | 2808 | 2813 | 2817 | rBV  | 29307  | 71109  | 6.46%  | 0.441% |
| 73  | 19.489 | 2829 | 2834 | 2839 | rBV  | 254102 | 361610 | 32.86% | 2.244% |
| 74  | 19.542 | 2840 | 2843 | 2847 | rVV2 | 23171  | 34359  | 3.12%  | 0.213% |
| 75  | 19.583 | 2847 | 2850 | 2855 | rVB2 | 28547  | 37931  | 3.45%  | 0.235% |
| 76  | 19.642 | 2855 | 2860 | 2865 | rBV  | 92667  | 130899 | 11.89% | 0.812% |
| 77  | 19.853 | 2886 | 2896 | 2904 | rBV  | 372055 | 607384 | 55.19% | 3.770% |
| 78  | 19.924 | 2904 | 2908 | 2913 | rVB2 | 27298  | 41232  | 3.75%  | 0.256% |
| 79  | 20.076 | 2931 | 2934 | 2942 | rVB4 | 18411  | 31852  | 2.89%  | 0.198% |
| 80  | 20.170 | 2945 | 2950 | 2958 | rVB  | 40773  | 94386  | 8.58%  | 0.586% |
| 81  | 20.341 | 2968 | 2979 | 2986 | rVB  | 94692  | 238956 | 21.71% | 1.483% |
| 82  | 20.405 | 2986 | 2990 | 2992 | rBV3 | 21318  | 26193  | 2.38%  | 0.163% |
| 83  | 20.441 | 2992 | 2996 | 3001 | rVV  | 72086  | 96532  | 8.77%  | 0.599% |
| 84  | 20.499 | 3002 | 3006 | 3010 | rVB  | 60229  | 77825  | 7.07%  | 0.483% |
| 85  | 20.640 | 3026 | 3030 | 3034 | rVV  | 58798  | 91614  | 8.32%  | 0.569% |
| 86  | 20.682 | 3034 | 3037 | 3047 | rVB  | 73666  | 122597 | 11.14% | 0.761% |
| 87  | 21.063 | 3096 | 3102 | 3106 | rBV5 | 15205  | 34682  | 3.15%  | 0.215% |
| 88  | 21.334 | 3144 | 3148 | 3152 | rVB  | 30940  | 46724  | 4.25%  | 0.290% |
| 89  | 21.381 | 3152 | 3156 | 3160 | rBV2 | 13789  | 21697  | 1.97%  | 0.135% |
| 90  | 21.710 | 3203 | 3212 | 3217 | rBV2 | 318106 | 696689 | 63.31% | 4.324% |
| 91  | 21.757 | 3217 | 3220 | 3227 | rVB  | 97068  | 163801 | 14.88% | 1.017% |
| 92  | 21.980 | 3255 | 3258 | 3265 | rVB3 | 16876  | 25658  | 2.33%  | 0.159% |
| 93  | 22.515 | 3346 | 3349 | 3356 | rVB  | 19258  | 32418  | 2.95%  | 0.201% |
| 94  | 22.609 | 3359 | 3365 | 3370 | rBV5 | 11576  | 26021  | 2.36%  | 0.161% |
| 95  | 22.726 | 3380 | 3385 | 3388 | rBV  | 14831  | 25508  | 2.32%  | 0.158% |
| 96  | 23.931 | 3583 | 3590 | 3598 | rBV3 | 24365  | 86673  | 7.88%  | 0.538% |
| 97  | 24.659 | 3706 | 3714 | 3723 | rBV  | 23642  | 67714  | 6.15%  | 0.420% |
| 98  | 24.812 | 3732 | 3740 | 3750 | rVB2 | 43315  | 121085 | 11.00% | 0.752% |
| 99  | 24.971 | 3754 | 3767 | 3775 | rBV  | 146651 | 439367 | 39.92% | 2.727% |
| 100 | 29.836 | 4583 | 4595 | 4598 | rBV4 | 8813   | 26688  | 2.43%  | 0.166% |

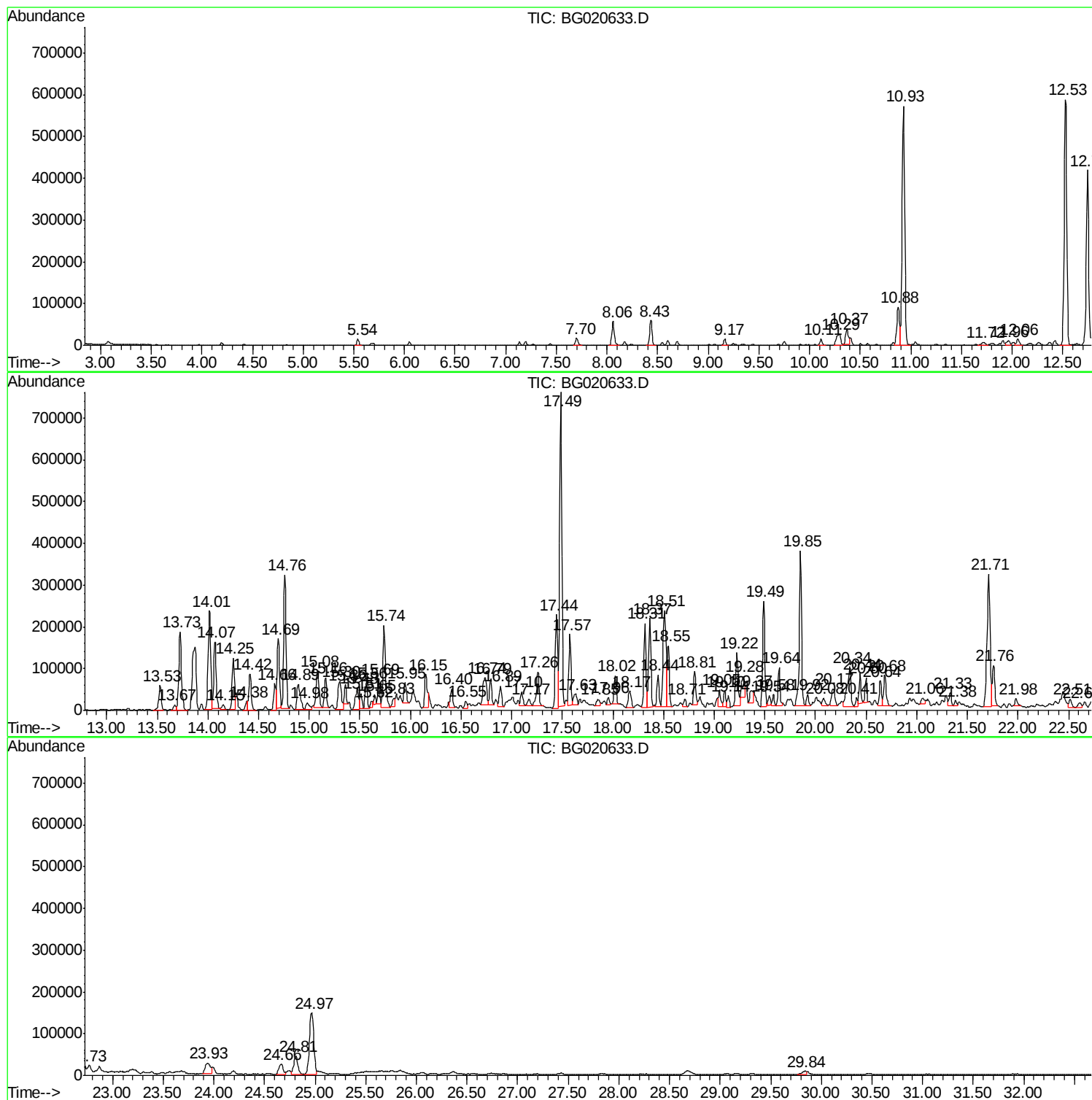
Sum of corrected areas: 16112390

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

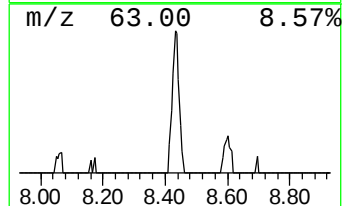
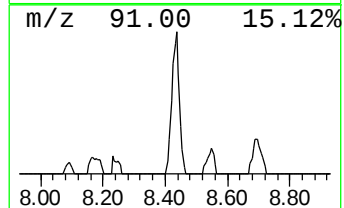
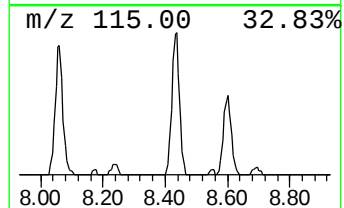
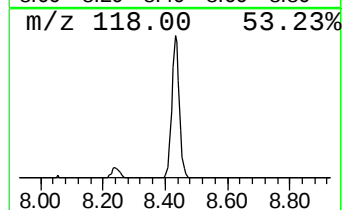
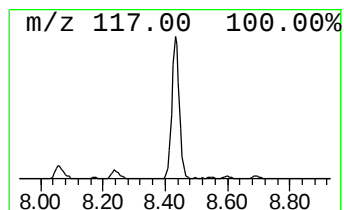
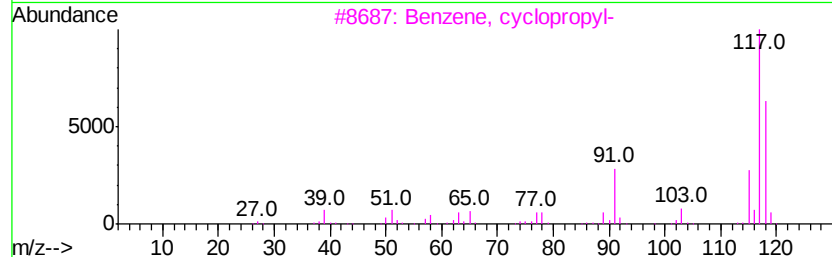
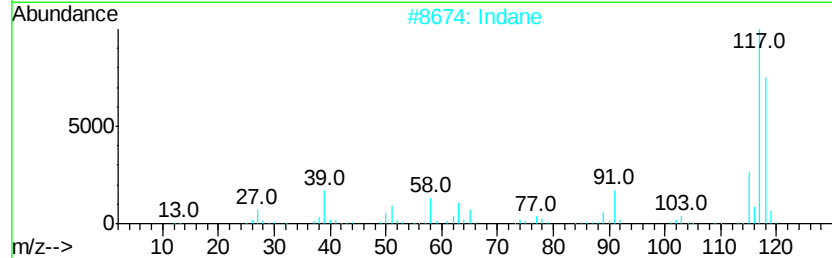
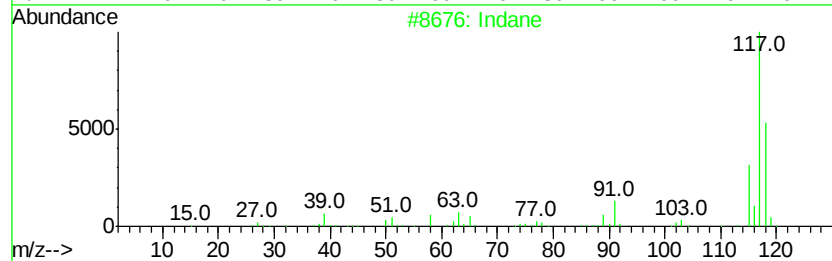
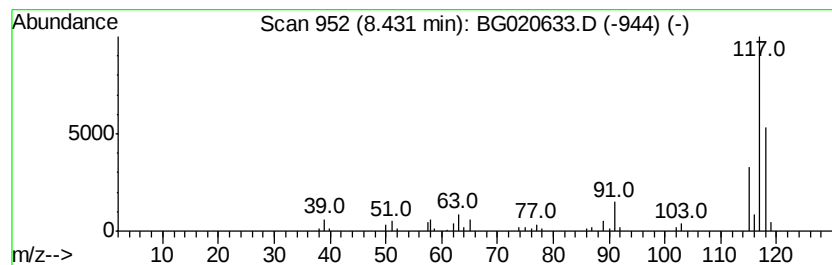
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Indane Concentration Rank 5

| R.T. | EstConc     | Area   | Relative to ISTD       | R.T. |
|------|-------------|--------|------------------------|------|
| 8.43 | 19.94 ng/ul | 100451 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Indane                              | 118 | C9H10   | 000496-11-7  | 95   |
| 2    |    | Indane                              | 118 | C9H10   | 000496-11-7  | 91   |
| 3    |    | Benzene, cyclopropyl-               | 118 | C9H10   | 000873-49-4  | 74   |
| 4    |    | Deltacyclene                        | 118 | C9H10   | 007785-10-6  | 72   |
| 5    |    | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10   | 1000191-13-7 | 72   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleID :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

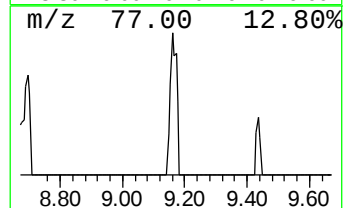
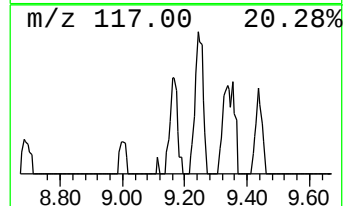
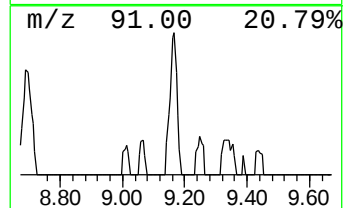
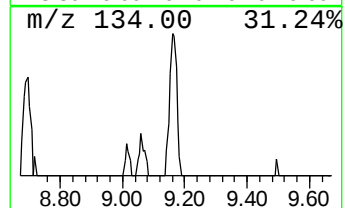
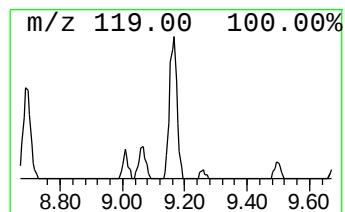
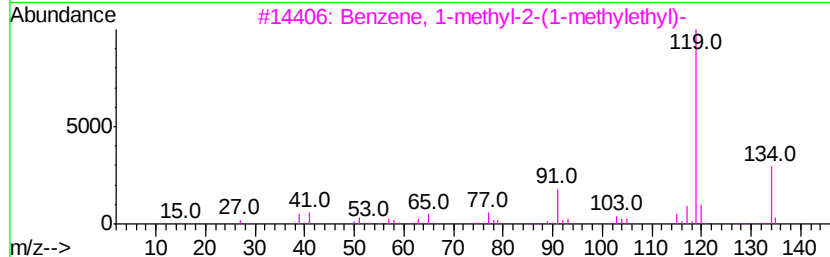
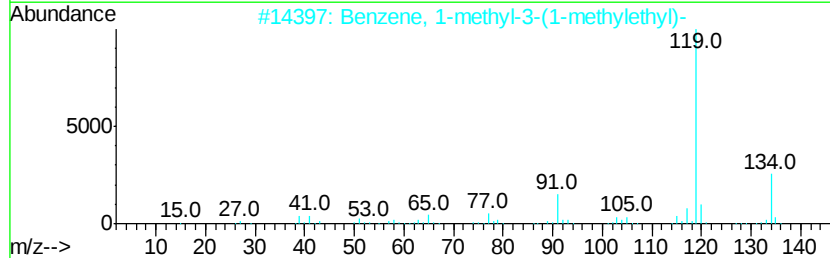
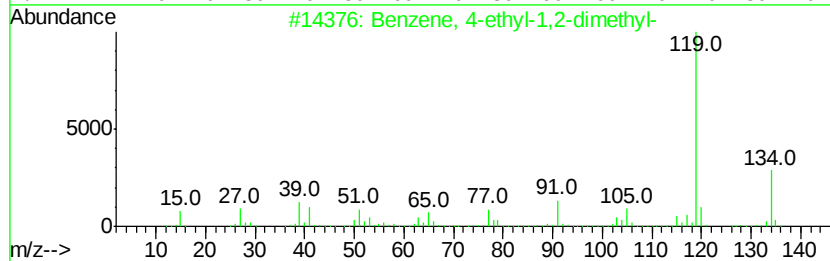
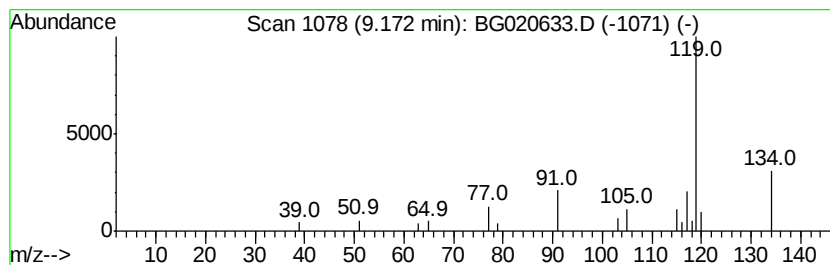
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 31

| R.T. | EstConc    | Area  | Relative to ISTD       | R.T. |
|------|------------|-------|------------------------|------|
| 9.17 | 4.41 ng/ul | 22222 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 4-ethyl-1,2-dimethyl-       | 134 | C10H14  | 000934-80-5 | 91   |
| 2    |    | Benzene, 1-methyl-3-(1-methylethyl-) | 134 | C10H14  | 000535-77-3 | 90   |
| 3    |    | Benzene, 1-methyl-2-(1-methylethyl-) | 134 | C10H14  | 000527-84-4 | 87   |
| 4    |    | Benzene, 4-ethyl-1,2-dimethyl-       | 134 | C10H14  | 000934-80-5 | 87   |
| 5    |    | Benzene, 1-ethyl-2,4-dimethyl-       | 134 | C10H14  | 000874-41-9 | 87   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

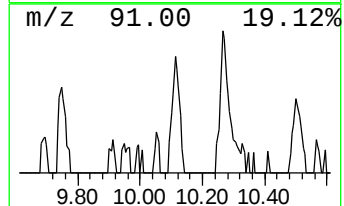
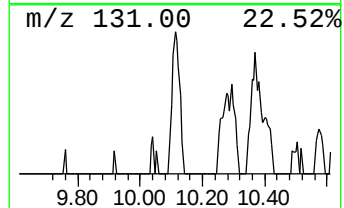
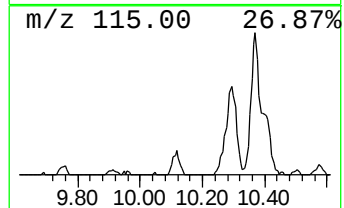
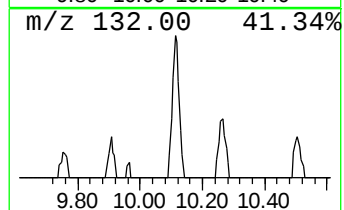
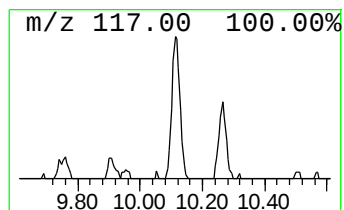
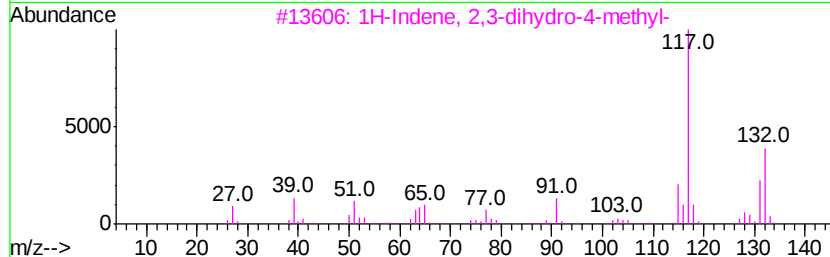
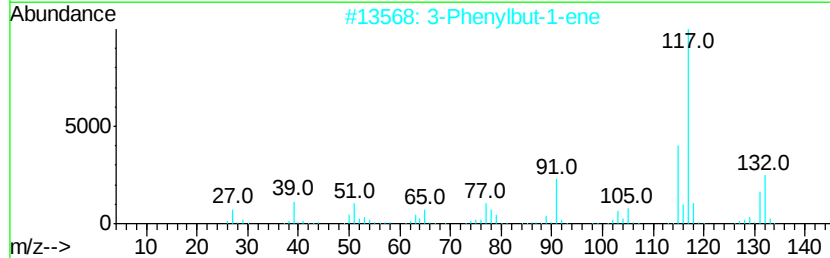
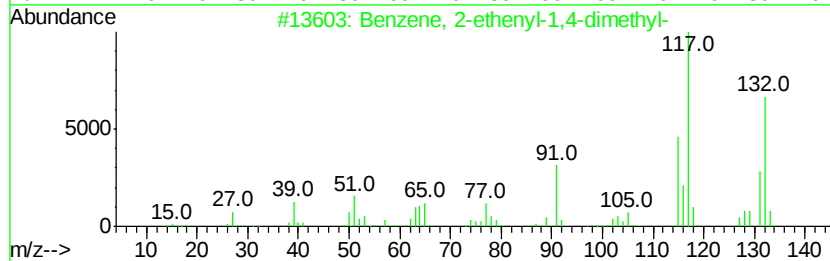
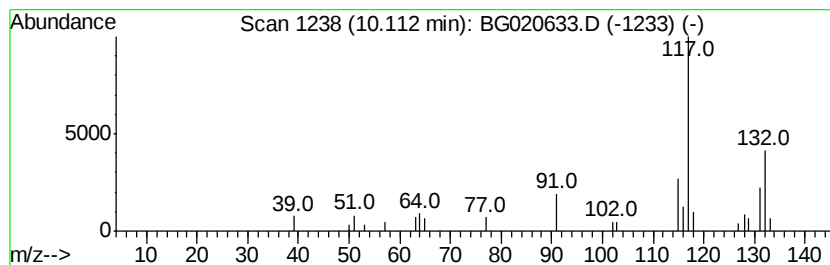
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 46

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 10.11 | 2.94 ng/ul | 24076 | Naphthalene-d8   | 10.88 |

| Hit# of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|---------|---|-----------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 2-ethenyl-1,4-dimethyl-  | 132 | C10H12  | 002039-89-6 | 94   |
| 2       |   | 3-Phenylbut-1-ene                 | 132 | C10H12  | 000934-10-1 | 91   |
| 3       |   | 1H-Indene, 2,3-dihydro-4-methyl-  | 132 | C10H12  | 000824-22-6 | 91   |
| 4       |   | 1H-Indene, 2,3-dihydro-5-methyl-  | 132 | C10H12  | 000874-35-1 | 90   |
| 5       |   | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 90   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

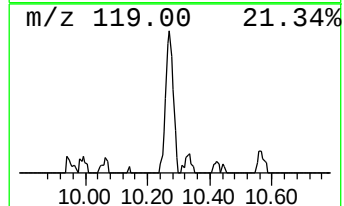
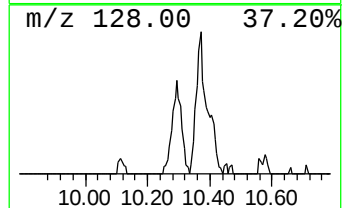
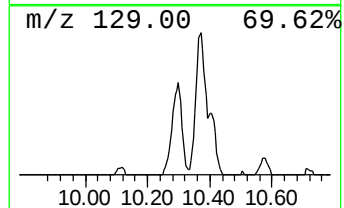
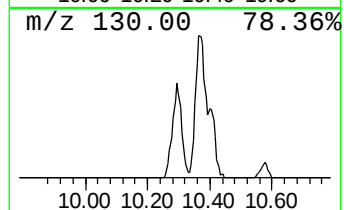
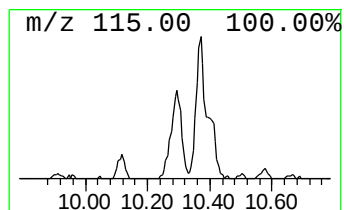
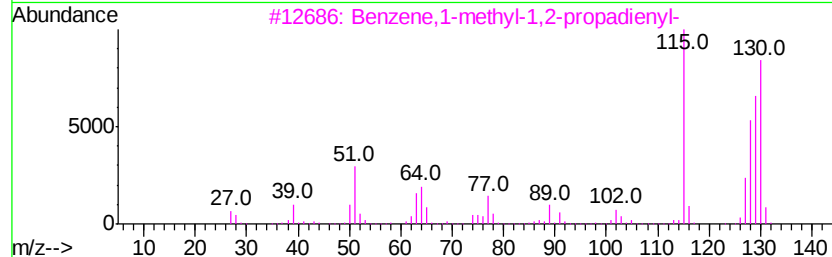
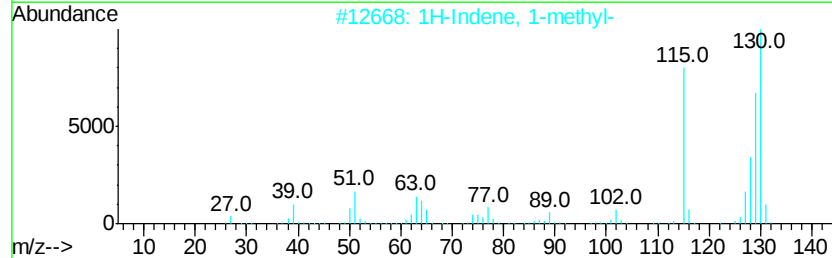
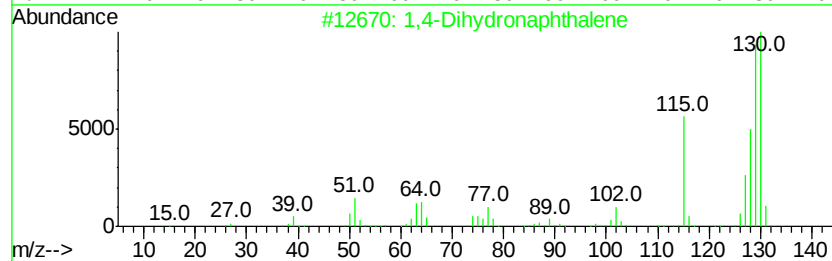
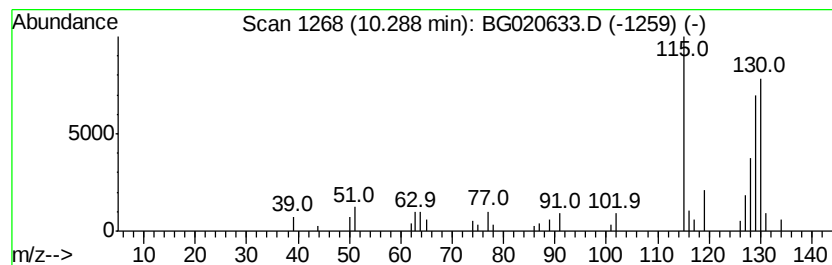
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 1,4-Dihydronaphthalene Concentration Rank 14

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 10.29 | 9.95 ng/ul | 81635 | Naphthalene-d8   | 10.88 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1,4-Dihydronaphthalene            | 130 | C10H10  | 000612-17-9 | 96   |
| 2    |    |   | 1H-Indene, 1-methyl-              | 130 | C10H10  | 000767-59-9 | 93   |
| 3    |    |   | Benzene,1-methyl-1,2-propadienyl- | 130 | C10H10  | 022433-39-2 | 93   |
| 4    |    |   | 2-Methylindene                    | 130 | C10H10  | 002177-47-1 | 93   |
| 5    |    |   | 1H-Indene, 3-methyl-              | 130 | C10H10  | 000767-60-2 | 93   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

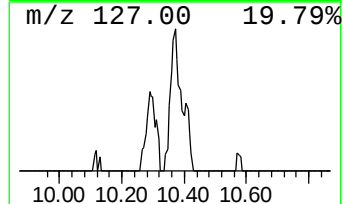
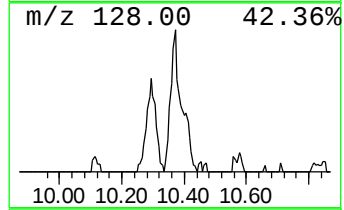
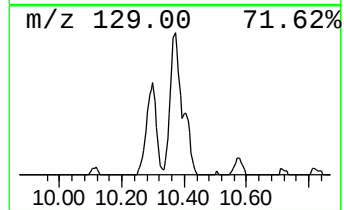
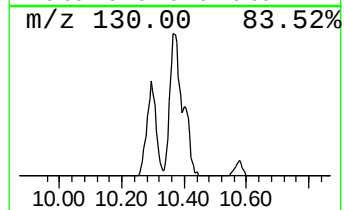
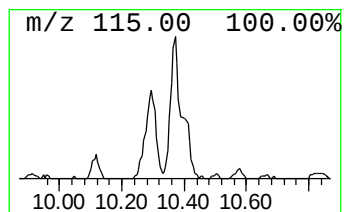
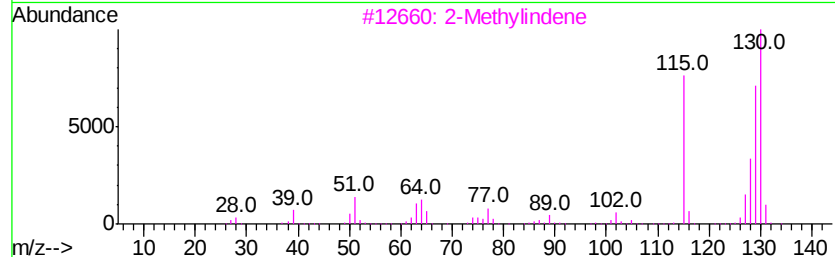
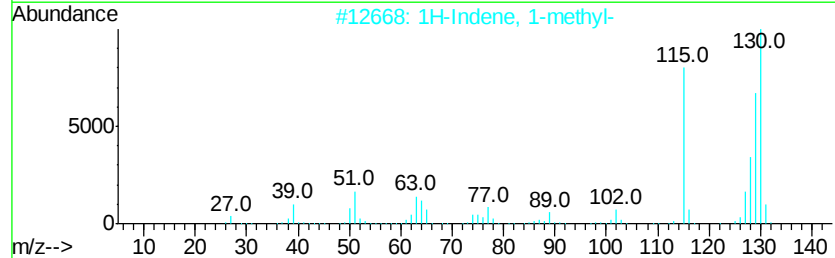
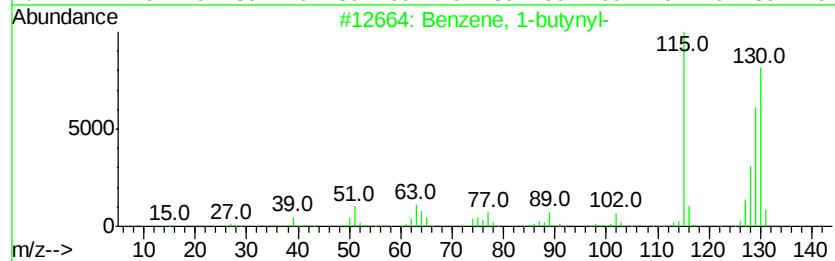
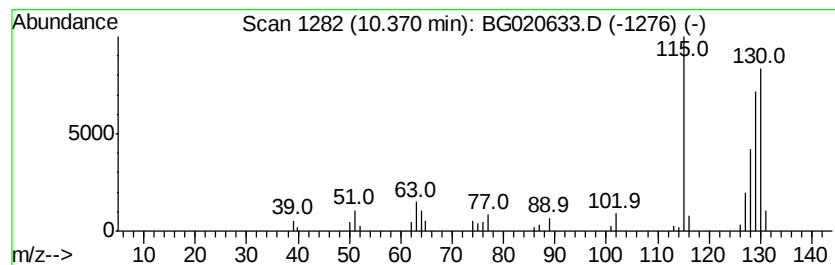
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, 1-butynyl- Concentration Rank 15

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 10.37 | 9.08 ng/ul | 74459 | Naphthalene-d8   | 10.88 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-butynyl-                 | 130 | C10H10  | 000622-76-4 | 96   |
| 2    |    |   | 1H-Indene, 1-methyl-                | 130 | C10H10  | 000767-59-9 | 95   |
| 3    |    |   | 2-Methylindene                      | 130 | C10H10  | 002177-47-1 | 90   |
| 4    |    |   | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10  | 065051-83-4 | 90   |
| 5    |    |   | Benzene,1-methyl-1,2-propadienyl-   | 130 | C10H10  | 022433-39-2 | 90   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

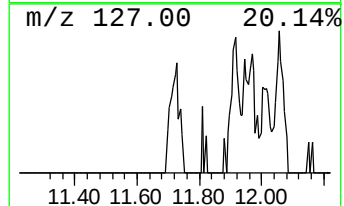
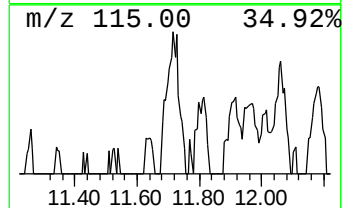
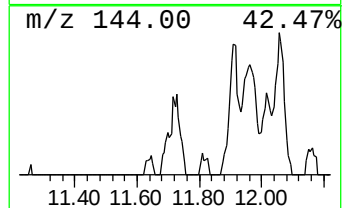
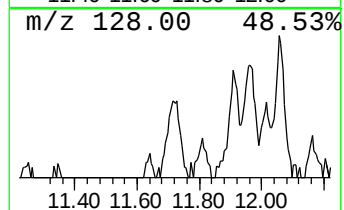
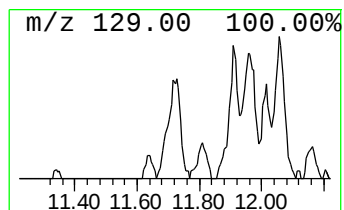
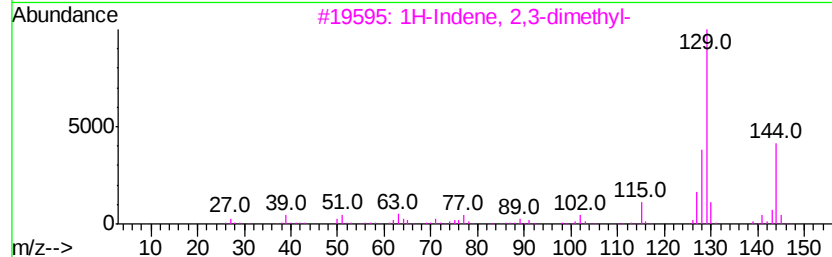
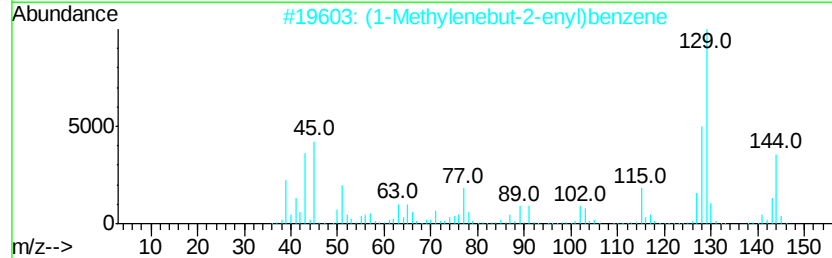
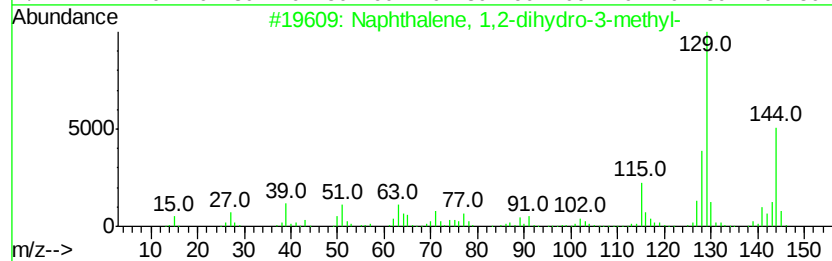
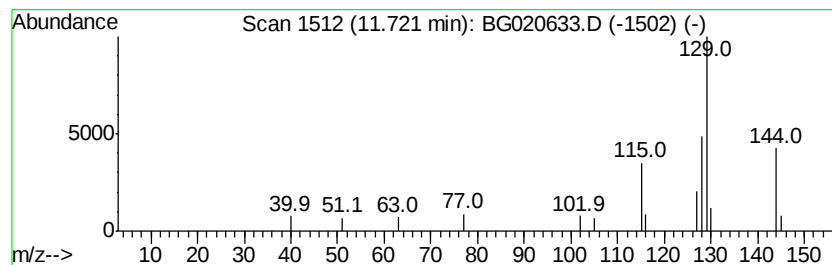
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Naphthalene, 1,2-dihydro-3-... Concentration Rank 53

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 11.72 | 2.56 ng/ul | 20975 | Naphthalene-d8   | 10.88 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2-dihydro-3-methyl- | 144 | C11H12  | 002717-44-4 | 91   |
| 2    |    | (1-Methylenebut-2-enyl)benzene     | 144 | C11H12  | 070588-46-4 | 90   |
| 3    |    | 1H-Indene, 2,3-dimethyl-           | 144 | C11H12  | 004773-82-4 | 90   |
| 4    |    | 1H-Indene, 1,1-dimethyl-           | 144 | C11H12  | 018636-55-0 | 87   |
| 5    |    | 1H-Indene, 4,7-dimethyl-           | 144 | C11H12  | 006974-97-6 | 86   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

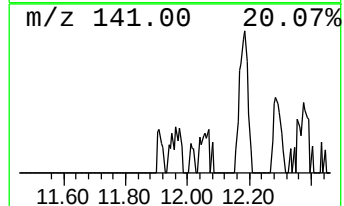
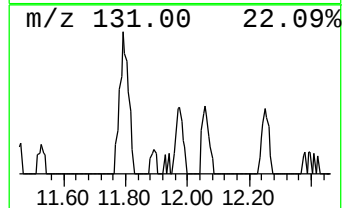
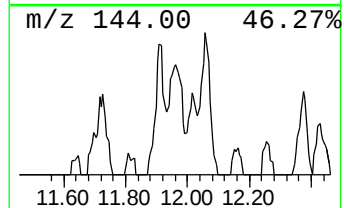
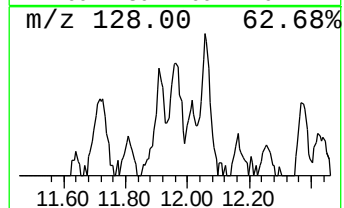
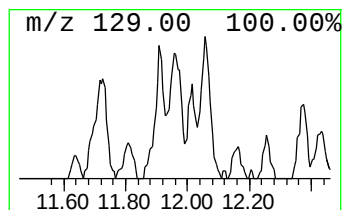
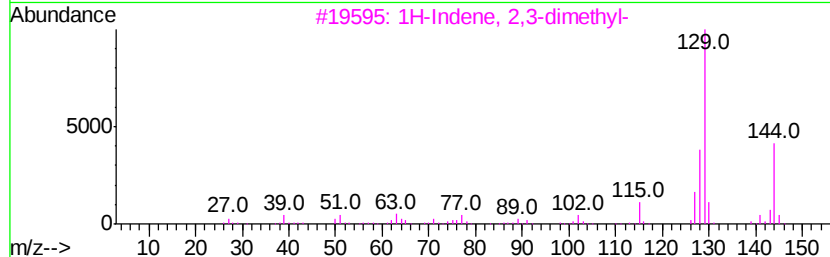
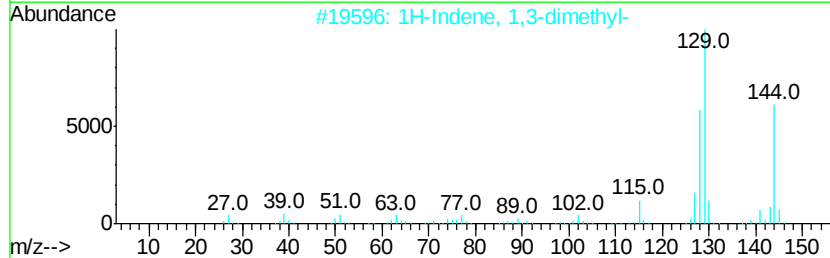
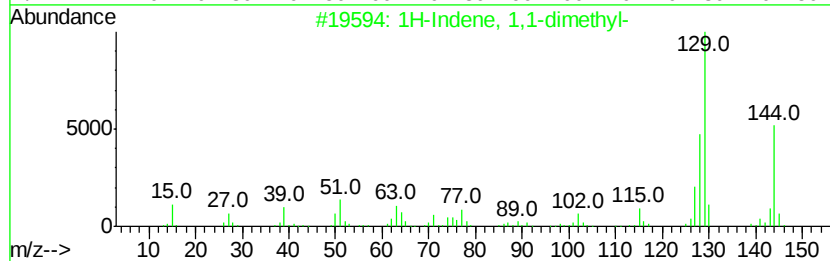
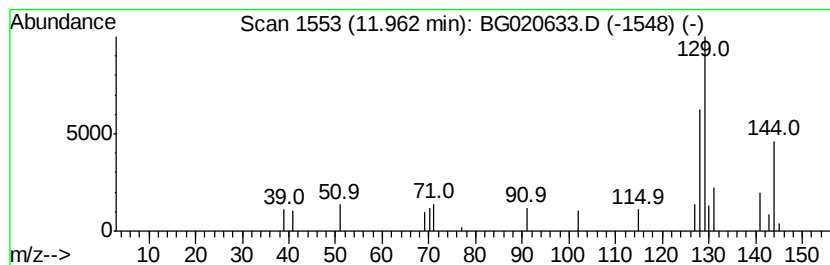
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 1H-Indene, 1,1-dimethyl- Concentration Rank 42

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 11.96 | 3.15 ng/ul | 25830 | Naphthalene-d8   | 10.88 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 1,1-dimethyl-           | 144 | C11H12  | 018636-55-0 | 74   |
| 2    |    | 1H-Indene, 1,3-dimethyl-           | 144 | C11H12  | 002177-48-2 | 72   |
| 3    |    | 1H-Indene, 2,3-dimethyl-           | 144 | C11H12  | 004773-82-4 | 64   |
| 4    |    | Naphthalene, 1,2-dihydro-2-methyl- | 144 | C11H12  | 021564-79-4 | 62   |
| 5    |    | 1H-Indene, 1-ethenyl-2,3-dihydro-  | 144 | C11H12  | 051783-46-1 | 59   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

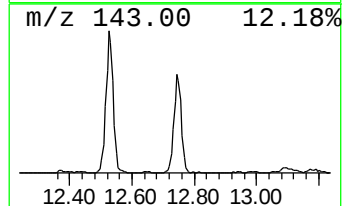
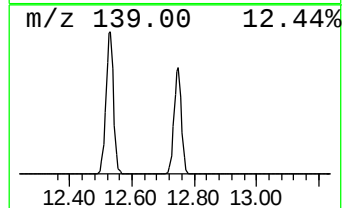
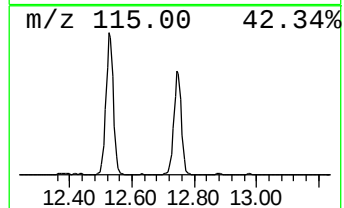
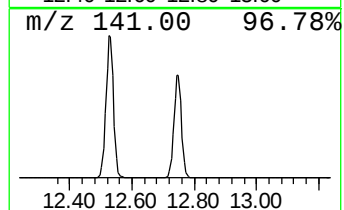
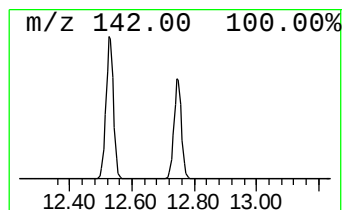
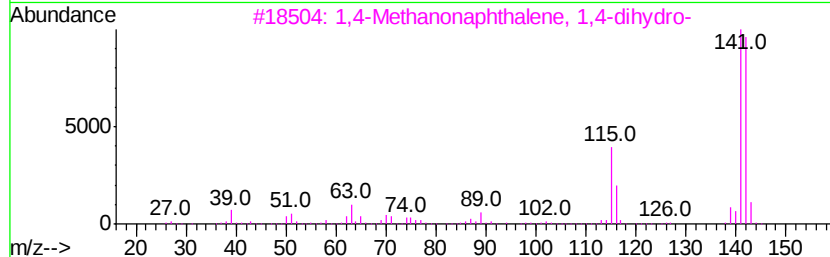
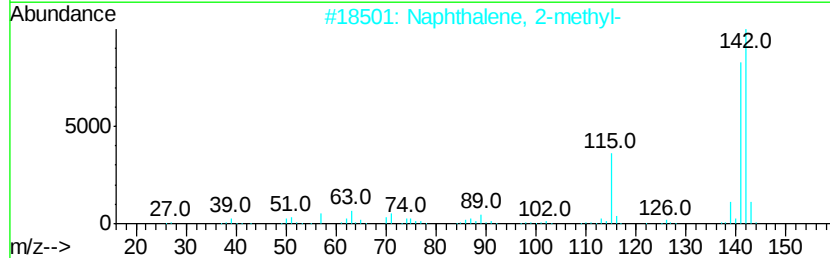
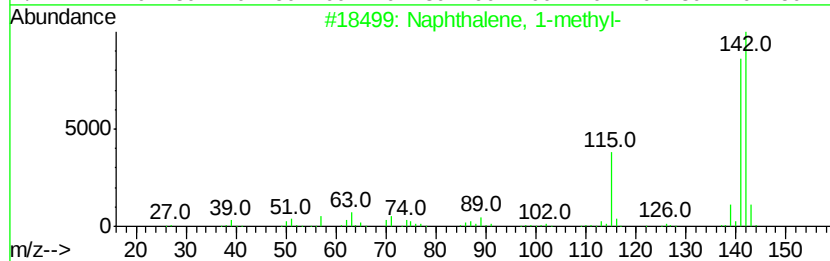
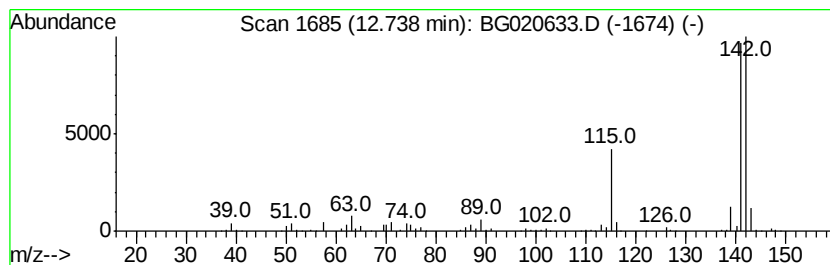
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Naphthalene, 1-methyl- Concentration Rank 1

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 12.74 | 87.85 ng/ul | 720563 | Naphthalene-d8   | 10.88 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 2    |    | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 3    |    | 1,4-Methanonaphthalene, 1,4-dihv... | 142 | C11H10  | 004453-90-1 | 94   |
| 4    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 94   |
| 5    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 94   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

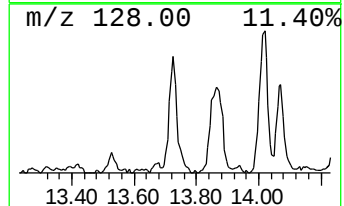
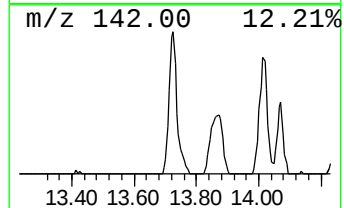
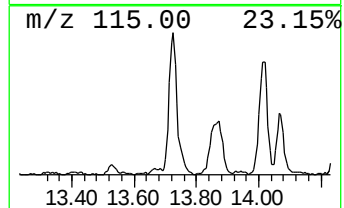
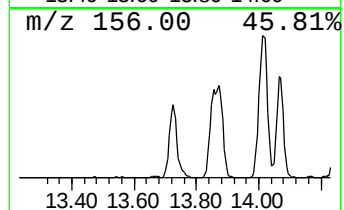
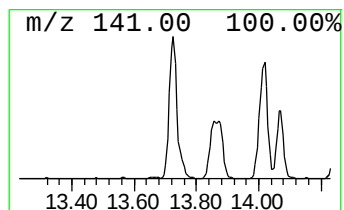
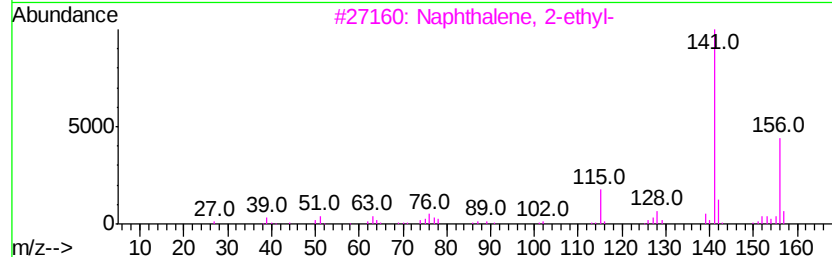
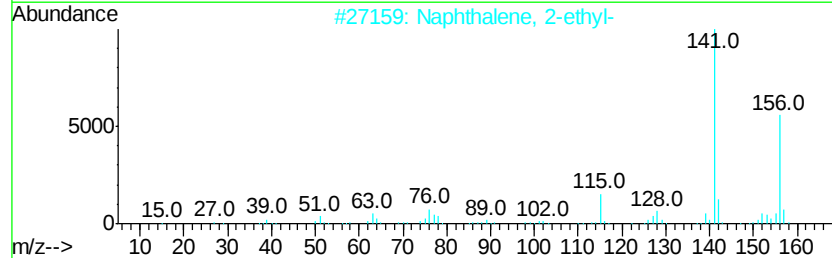
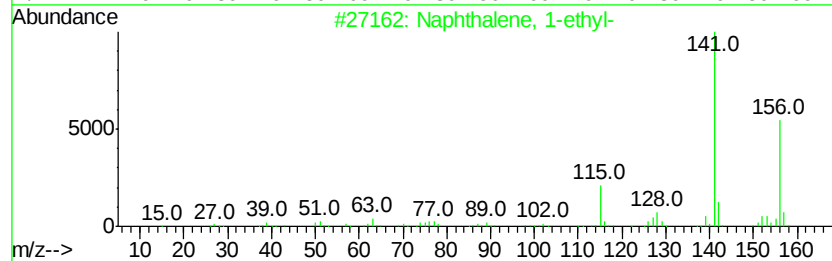
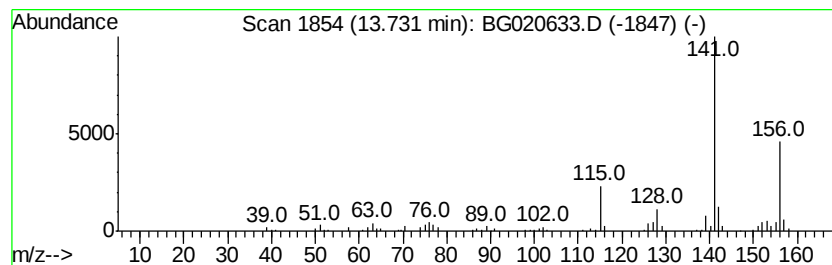
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Naphthalene, 1-ethyl- Concentration Rank 3

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 13.73 | 24.97 ng/ul | 334351 | Acenaphthene-d10 | 14.69 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-ethyl- | 156 | C12H12  | 001127-76-0 | 97   |
| 2    |    | Naphthalene, 2-ethyl- | 156 | C12H12  | 000939-27-5 | 95   |
| 3    |    | Naphthalene, 2-ethyl- | 156 | C12H12  | 000939-27-5 | 94   |
| 4    |    | Naphthalene, 1-ethyl- | 156 | C12H12  | 001127-76-0 | 94   |
| 5    |    | Naphthalene, 1-ethyl- | 156 | C12H12  | 001127-76-0 | 94   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

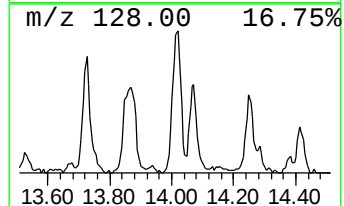
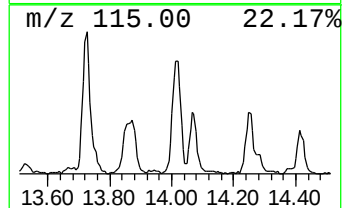
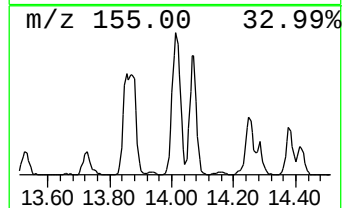
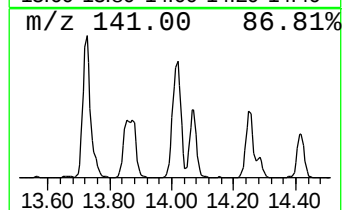
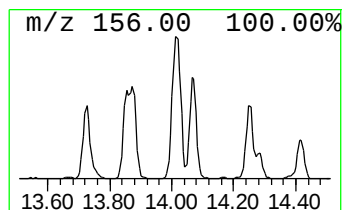
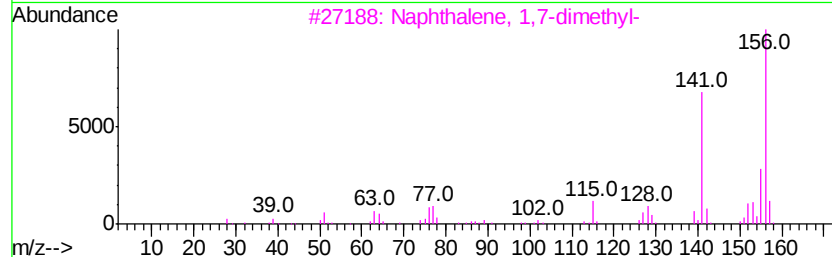
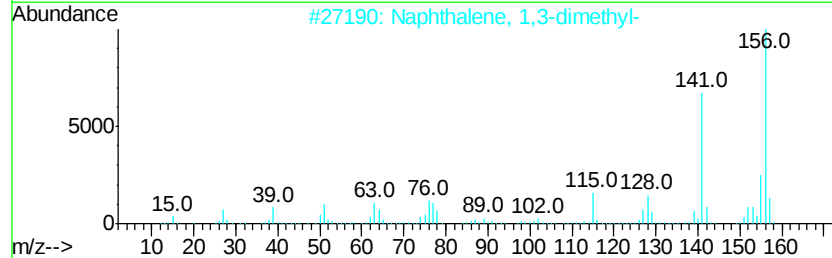
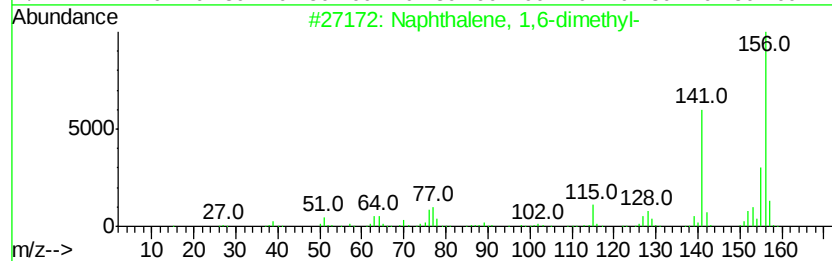
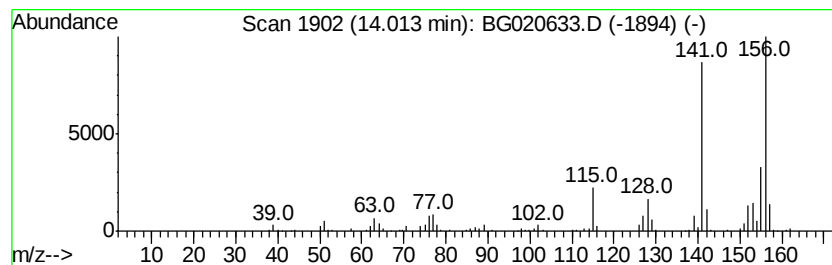
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Naphthalene, 1,6-dimethyl- Concentration Rank 2

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 14.01 | 33.60 ng/ul | 449996 | Acenaphthene-d10 | 14.69 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 2    |    | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 97   |
| 3    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 4    |    | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 97   |
| 5    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 96   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

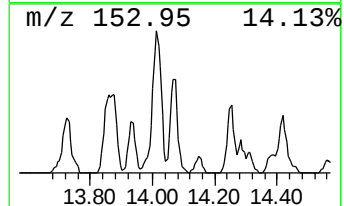
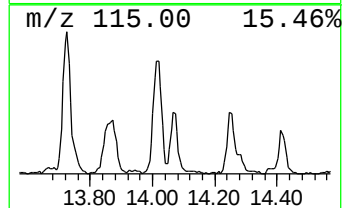
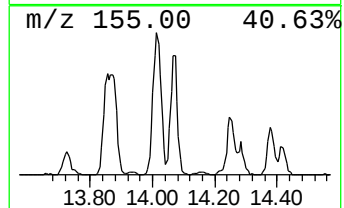
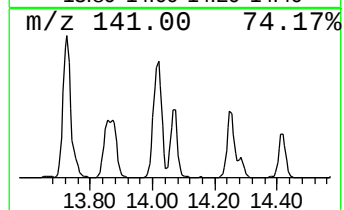
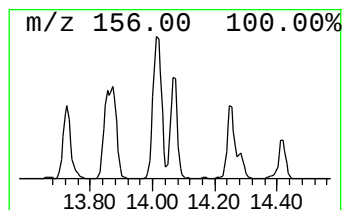
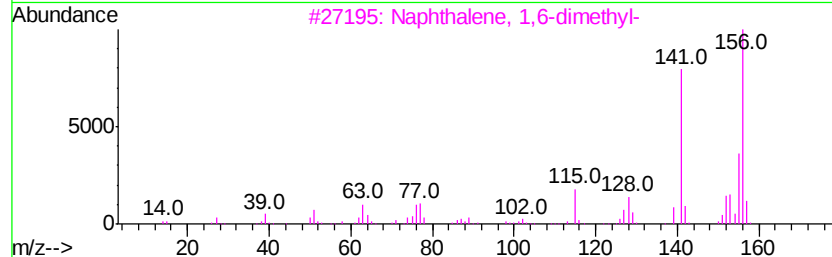
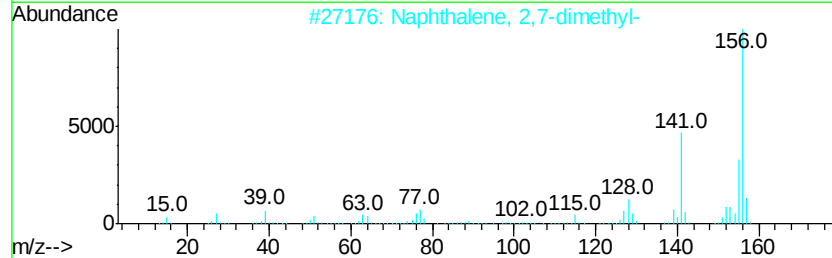
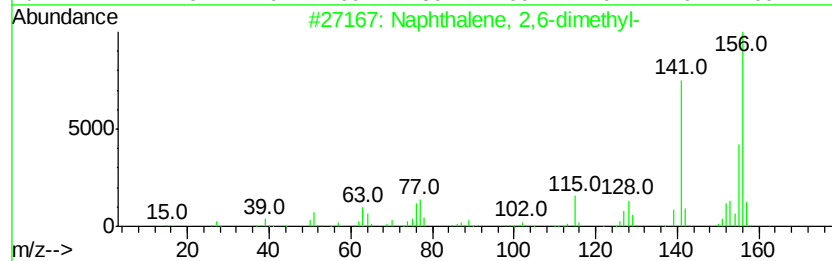
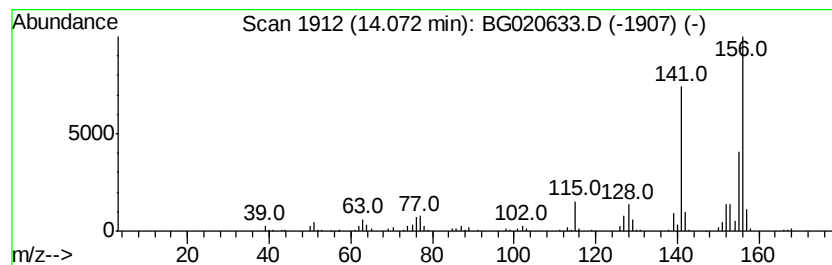
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Naphthalene, 2,6-dimethyl- Concentration Rank 6

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 14.07 | 19.83 ng/ul | 265606 | Acenaphthene-d10 | 14.69 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 97   |
| 2    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 3    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 4    |    | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 96   |
| 5    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 96   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

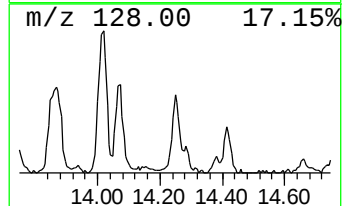
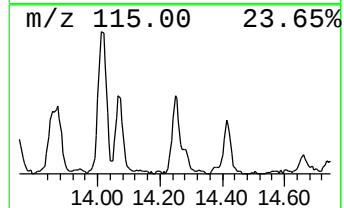
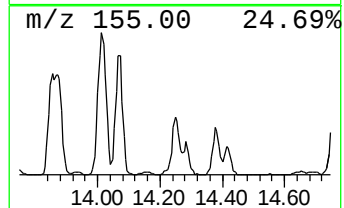
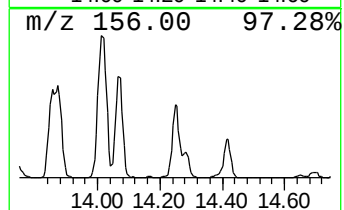
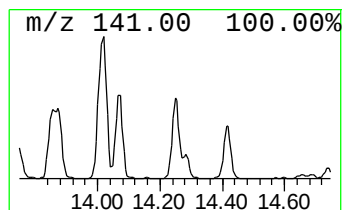
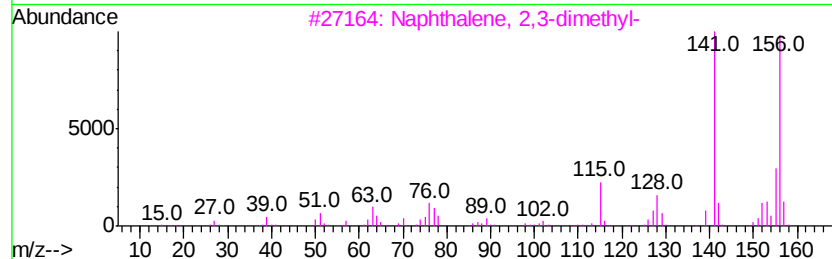
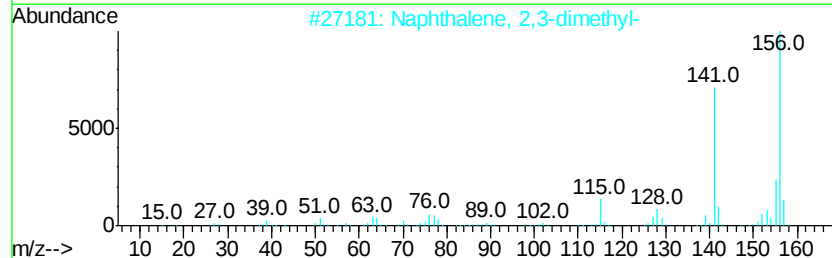
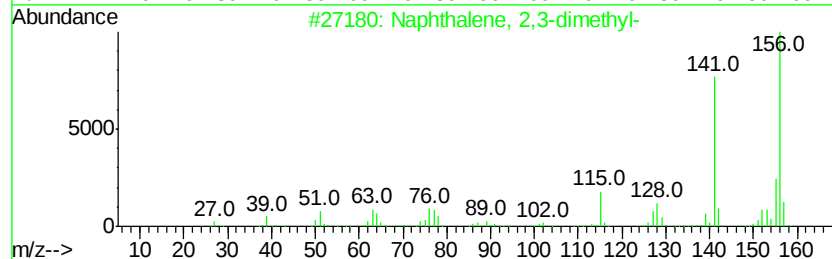
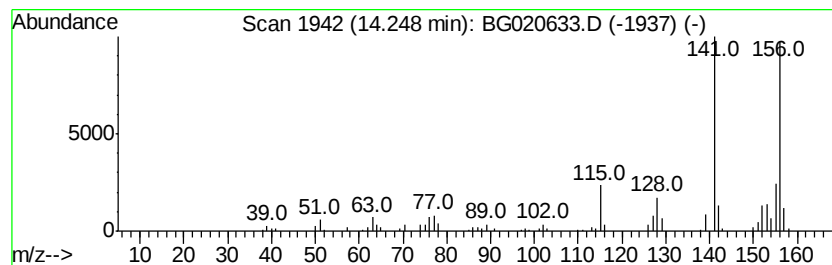
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Naphthalene, 2,3-dimethyl- Concentration Rank 9

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 14.25 | 14.79 ng/ul | 198081 | Acenaphthene-d10 | 14.69 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 2    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 3    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 4    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 5    |    | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

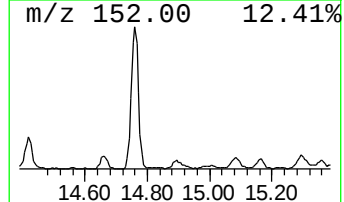
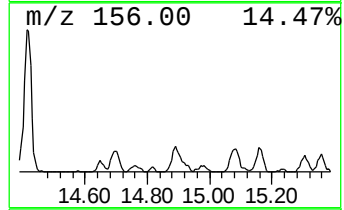
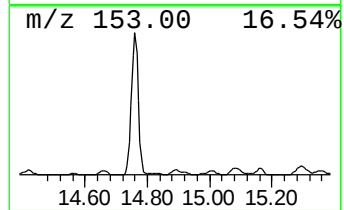
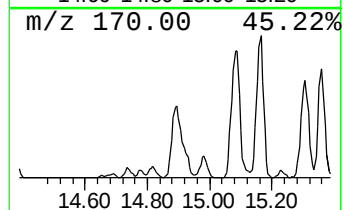
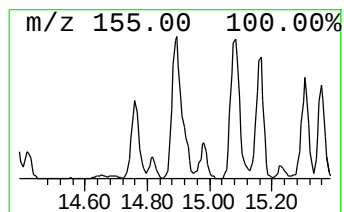
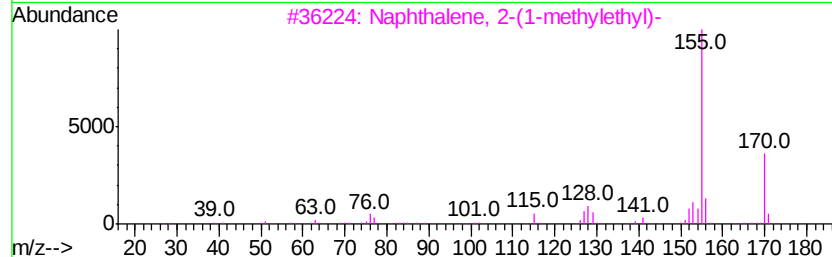
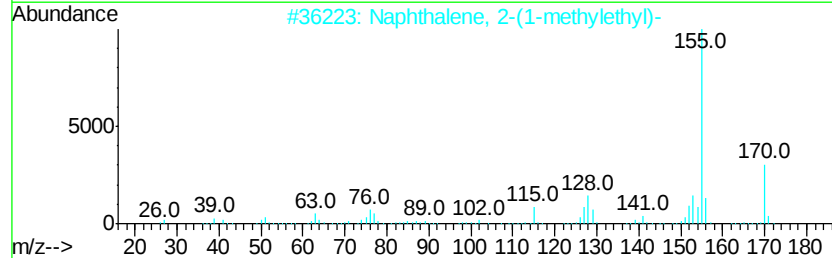
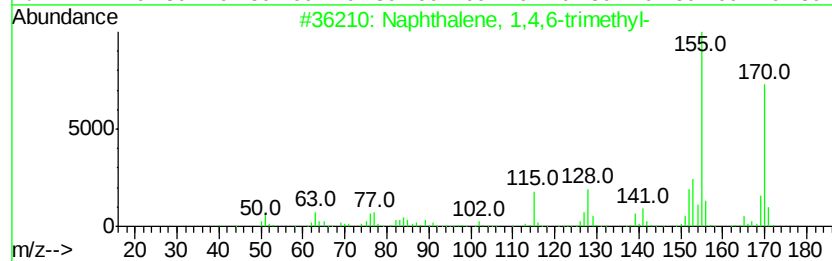
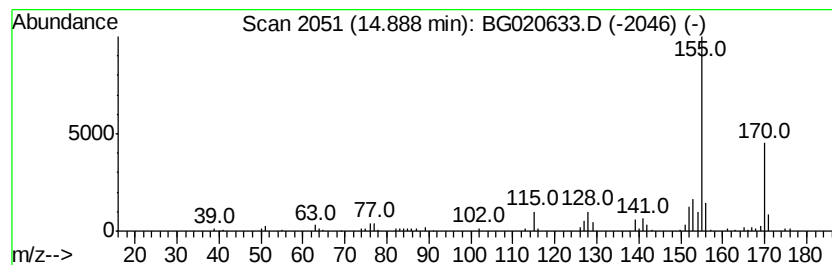
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Naphthalene, 1,4,6-trimethyl- Concentration Rank 13

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 14.89 | 10.26 ng/ul | 137468 | Acenaphthene-d10 | 14.69 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,4,6-trimethyl-   | 170 | C13H14  | 002131-42-2 | 92   |
| 2    |    | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14  | 002027-17-0 | 91   |
| 3    |    | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14  | 002027-17-0 | 91   |
| 4    |    | Naphthalene, 1,6,7-trimethyl-   | 170 | C13H14  | 002245-38-7 | 86   |
| 5    |    | 1'-Acetonaphthone               | 170 | C12H10O | 000941-98-0 | 72   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

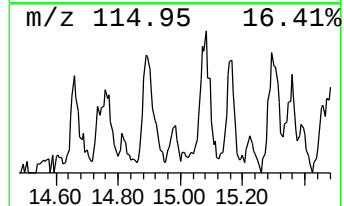
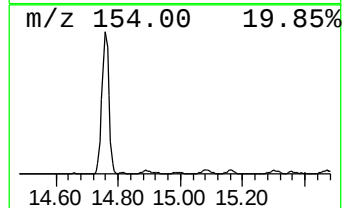
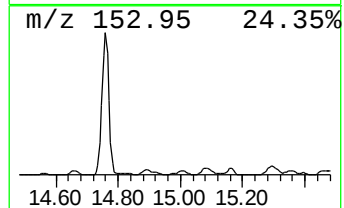
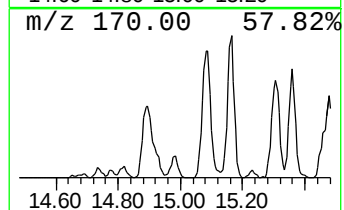
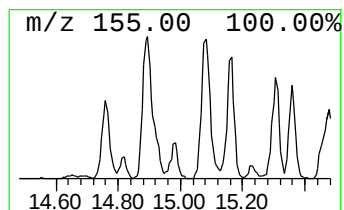
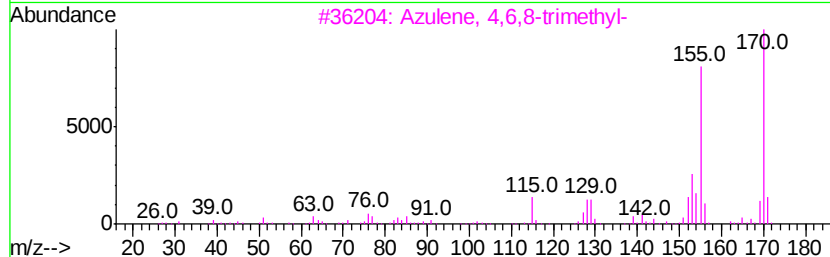
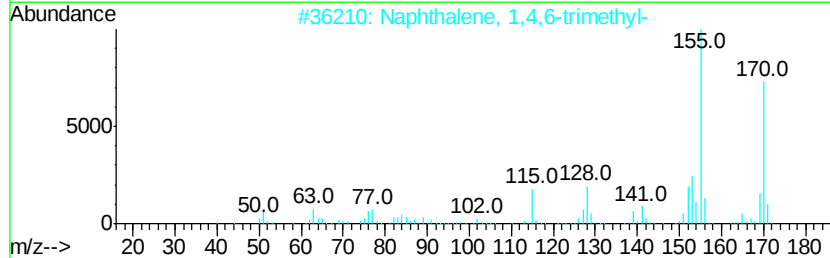
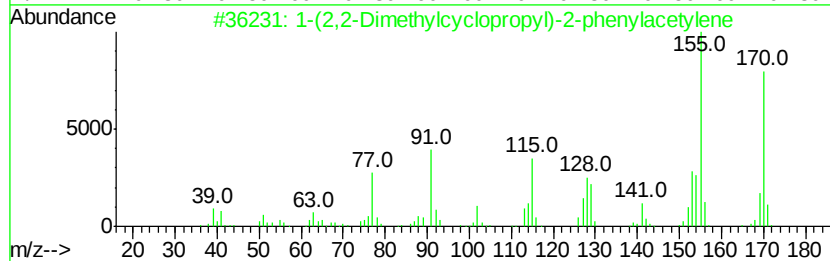
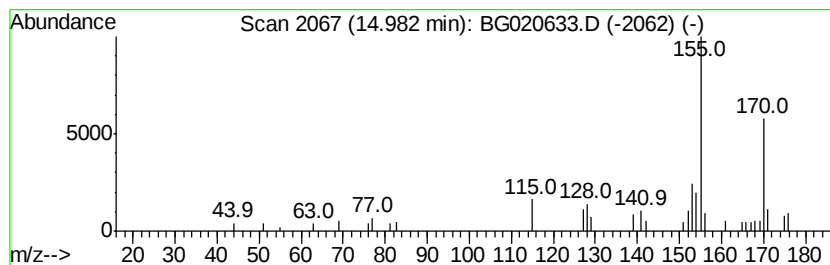
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 1-(2,2-Dimethylcyclopropyl)... Concentration Rank 49

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 14.98 | 2.66 ng/ul | 35642 | Acenaphthene-d10 | 14.69 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14  | 1000294-91-1 | 91   |
| 2    |    |   | Naphthalene, 1,4,6-trimethyl-       | 170 | C13H14  | 002131-42-2  | 91   |
| 3    |    |   | Azulene, 4,6,8-trimethyl-           | 170 | C13H14  | 000941-81-1  | 83   |
| 4    |    |   | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14  | 000829-26-5  | 83   |
| 5    |    |   | 3-(2-Methyl-propenyl)-1H-indene     | 170 | C13H14  | 1000187-78-5 | 83   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

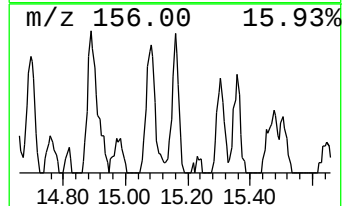
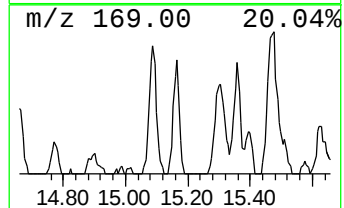
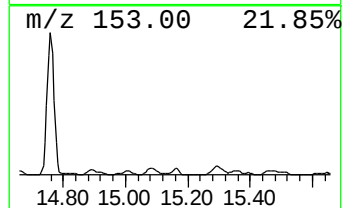
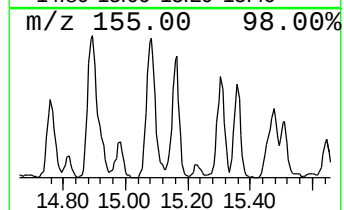
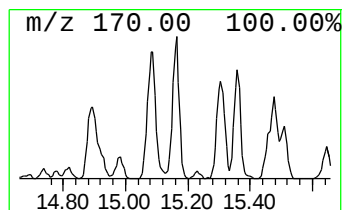
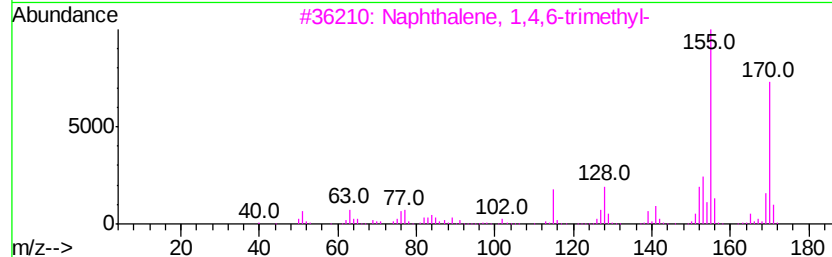
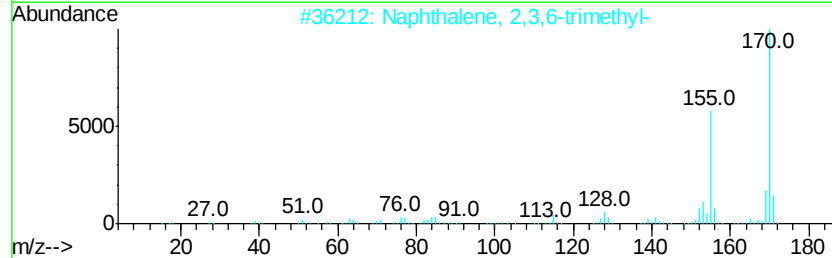
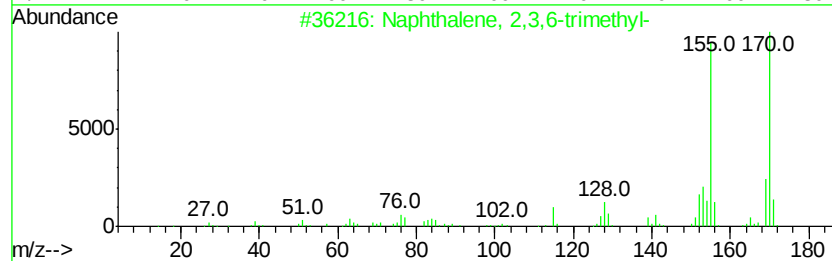
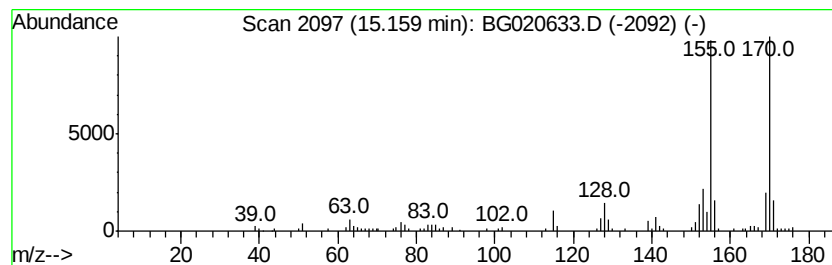
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 Naphthalene, 2,3,6-trimethyl- Concentration Rank 19

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.16 | 7.69 ng/ul | 102989 | Acenaphthene-d10 | 14.69 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 98   |
| 2    |    |   | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 97   |
| 3    |    |   | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 97   |
| 4    |    |   | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 97   |
| 5    |    |   | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 96   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

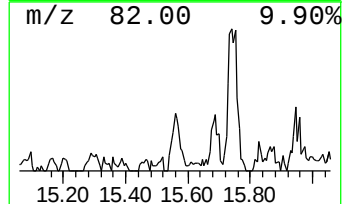
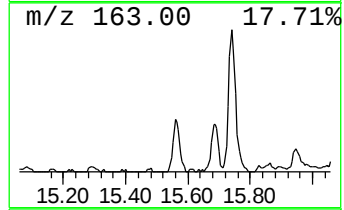
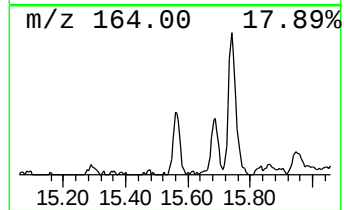
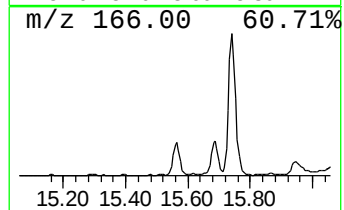
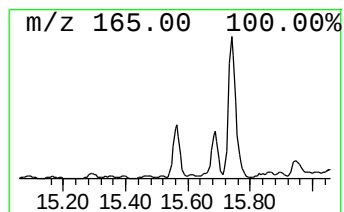
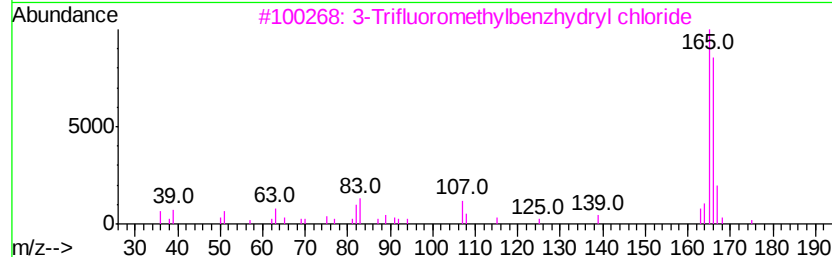
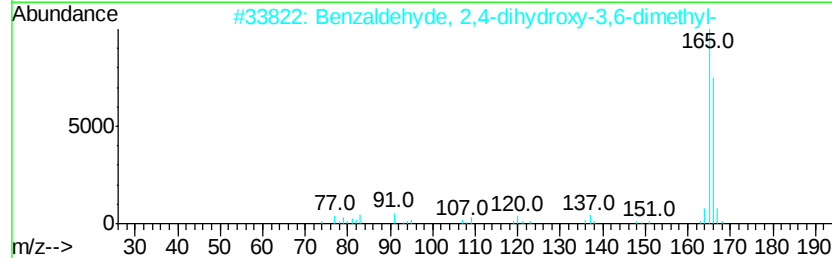
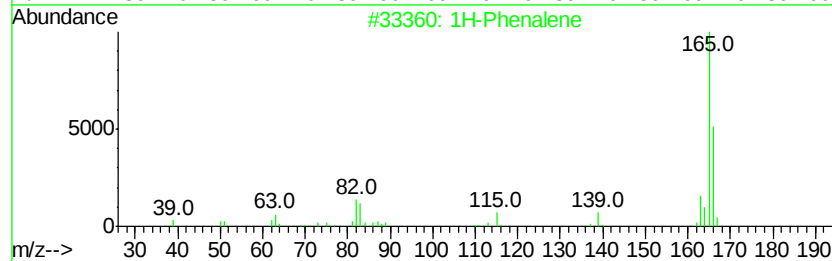
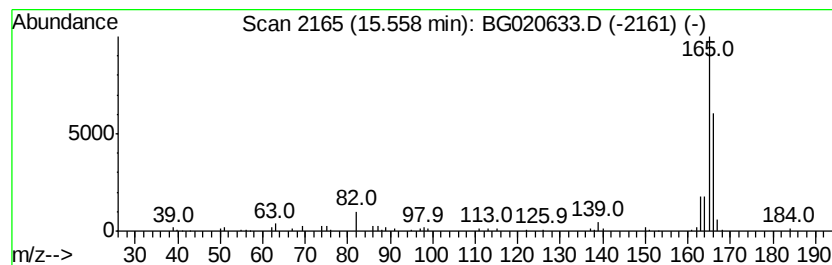
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 23 1H-Phenalene Concentration Rank 22

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 15.56 | 6.56 ng/ul | 87844 | Acenaphthene-d10 | 14.69 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 1H-Phenalene                        | 166 | C13H10     | 000203-80-5 | 80   |
| 2    |    | Benzaldehyde, 2,4-dihydroxy-3,6-... | 166 | C9H10O3    | 034883-14-2 | 72   |
| 3    |    | 3-Trifluoromethylbenzhydril chlo... | 270 | C14H10ClF3 | 067240-79-3 | 56   |
| 4    |    | Fluorene                            | 166 | C13H10     | 000086-73-7 | 52   |
| 5    |    | Fluorene                            | 166 | C13H10     | 000086-73-7 | 50   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

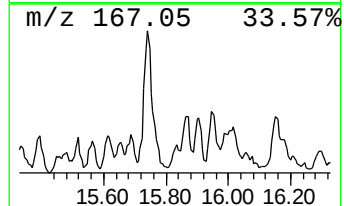
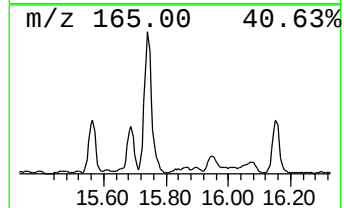
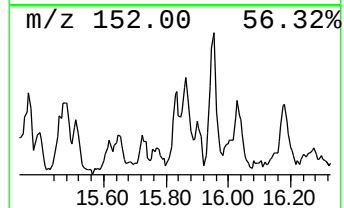
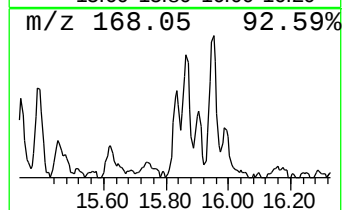
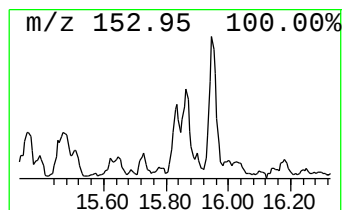
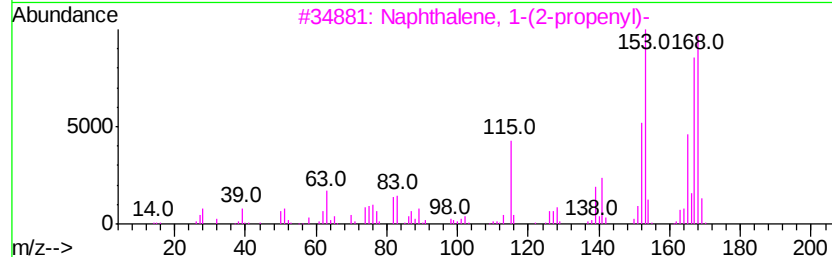
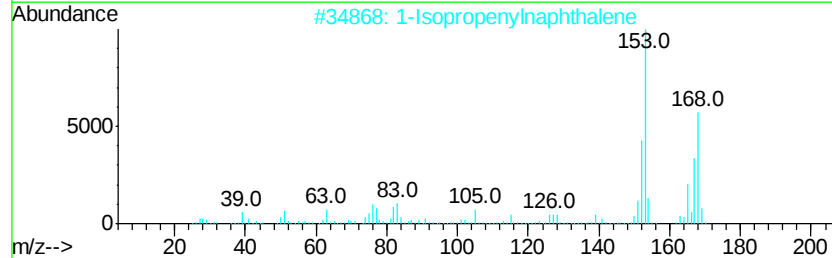
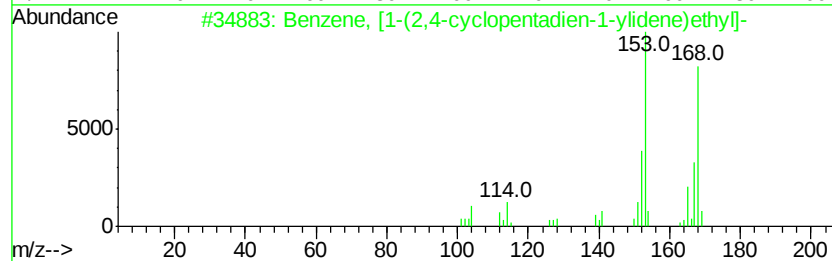
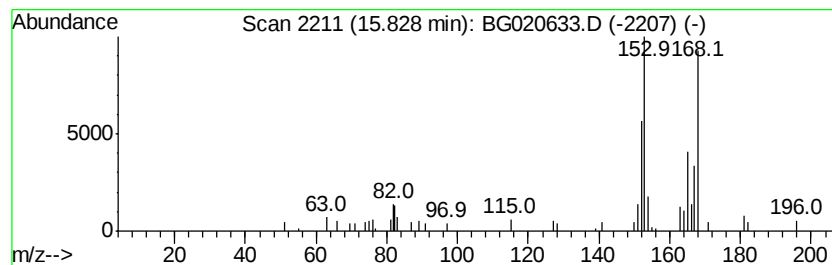
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 24 Benzene, [1-(2,4-cyclopenta... Concentration Rank 52

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 15.83 | 2.59 ng/ul | 34738 | Acenaphthene-d10 | 14.69 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12  | 002320-32-3 | 74   |
| 2    |    |   | 1-Isopropenylnaphthalene            | 168 | C13H12  | 001855-47-6 | 59   |
| 3    |    |   | Naphthalene, 1-(2-propenyl)-        | 168 | C13H12  | 002489-86-3 | 58   |
| 4    |    |   | Naphthalene, 2-(1-methylethenyl)-   | 168 | C13H12  | 003710-23-4 | 53   |
| 5    |    |   | 1,1'-Biphenyl, 2-methyl-            | 168 | C13H12  | 000643-58-3 | 47   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

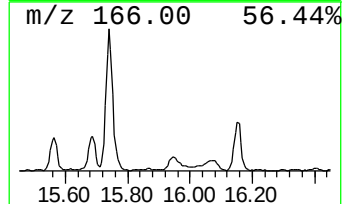
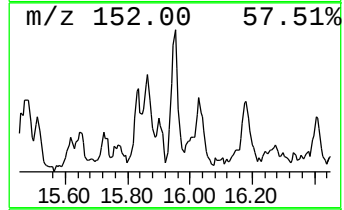
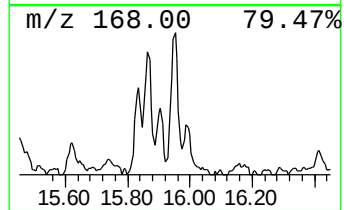
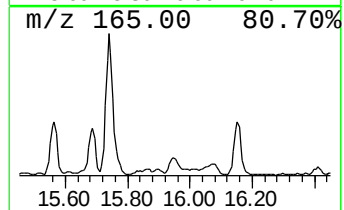
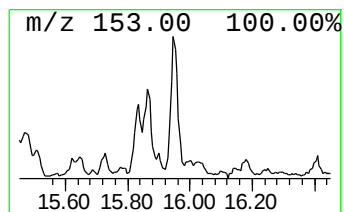
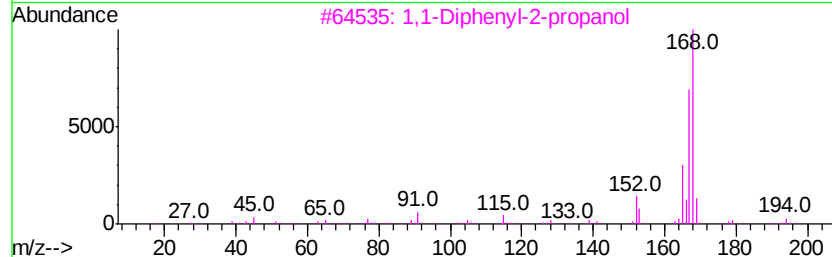
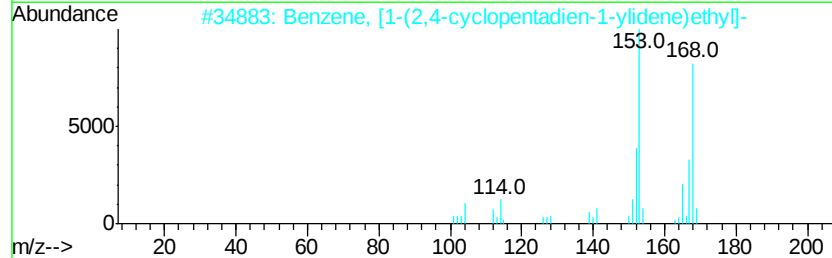
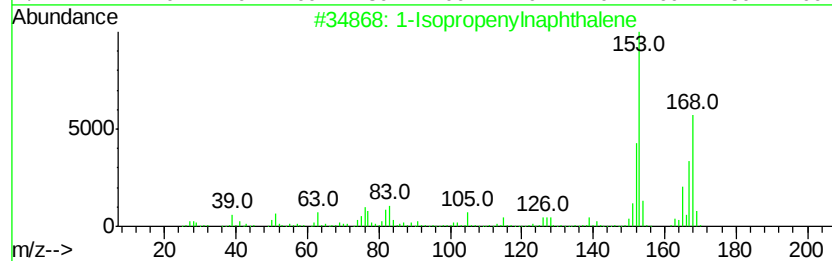
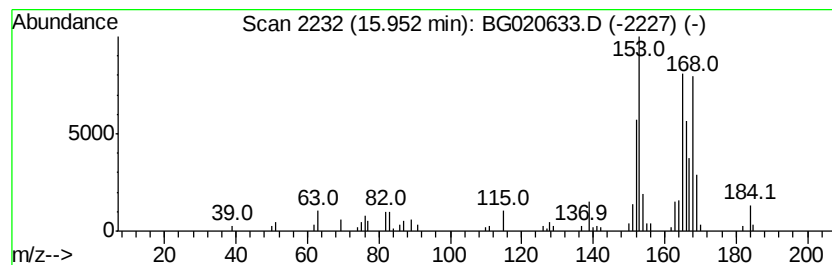
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 25 1-Isopropenylnaphthalene Concentration Rank 25

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 15.95 | 5.87 ng/ul | 78568 | Acenaphthene-d10 | 14.69 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 1-Isopropenylnaphthalene            | 168 | C13H12     | 001855-47-6 | 55   |
| 2    |    | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12     | 002320-32-3 | 50   |
| 3    |    | 1,1-Diphenyl-2-propanol             | 212 | C15H16O    | 029338-49-6 | 32   |
| 4    |    | 3-Trifluoromethylbenzhydryl chlo... | 270 | C14H10ClF3 | 067240-79-3 | 27   |
| 5    |    | 1H-Phenylene                        | 166 | C13H10     | 000203-80-5 | 22   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

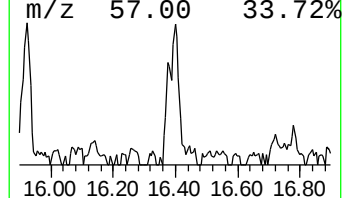
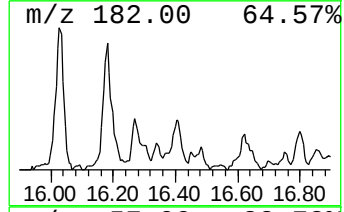
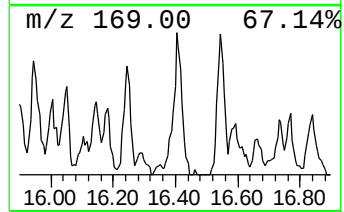
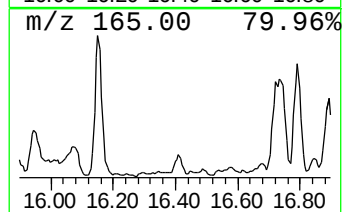
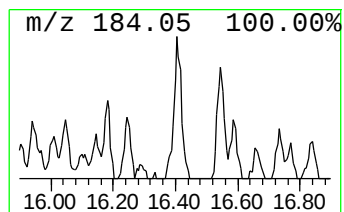
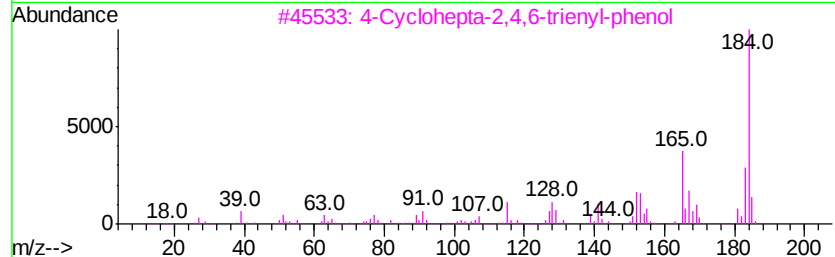
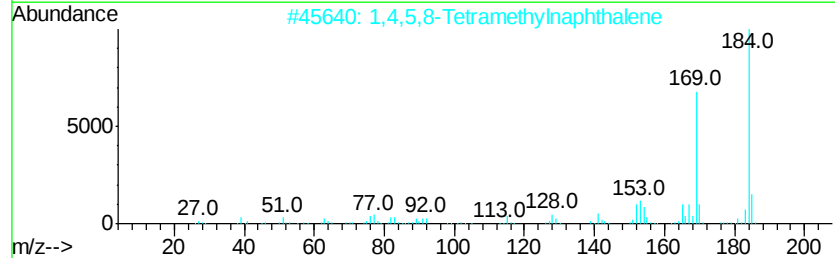
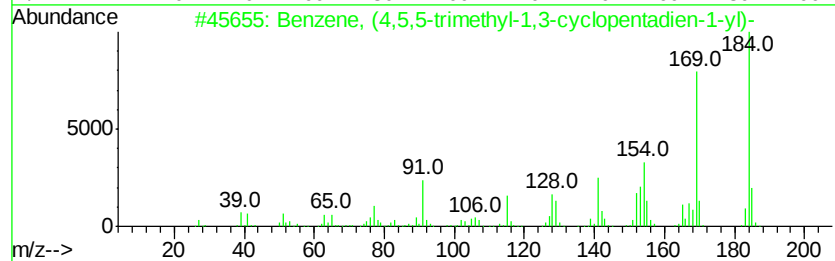
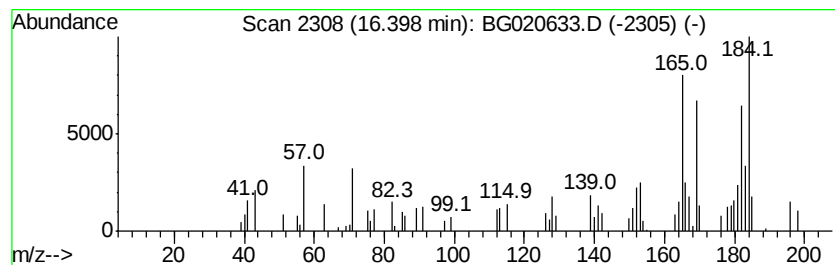
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 27 Benzene, (4,5,5-trimethyl-1... Concentration Rank 35

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 16.40 | 3.85 ng/ul | 73232 | Phenanthrene-d10 | 17.44 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Benzene, (4,5,5-trimethyl-1,3-cv... | 184 | C14H16  | 033930-85-7  | 53   |
| 2    |    | 1,4,5,8-Tetramethylnaphthalene      | 184 | C14H16  | 002717-39-7  | 53   |
| 3    |    | 4-Cyclohepta-2,4,6-trienyl-phenol   | 184 | C13H12O | 091902-42-0  | 50   |
| 4    |    | Cyclopentene, 1,2-dimethyl-4-met... | 184 | C14H16  | 1000152-22-4 | 46   |
| 5    |    | Naphthalene, 1-methyl-7-(1-methy... | 184 | C14H16  | 000490-65-3  | 46   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleID :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

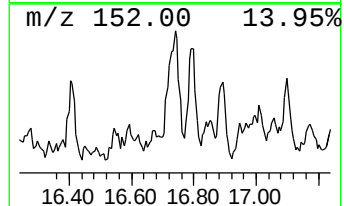
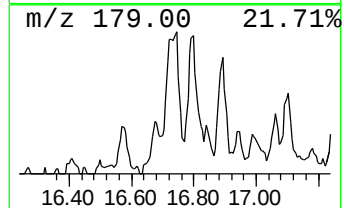
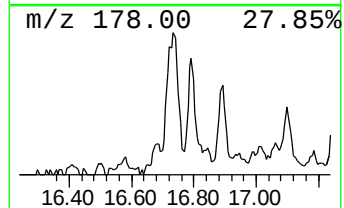
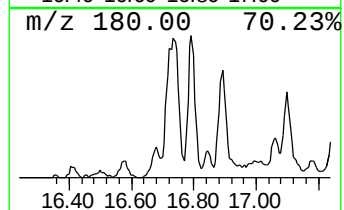
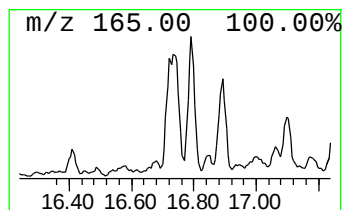
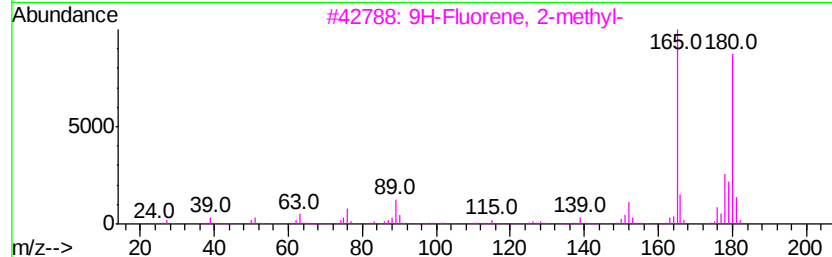
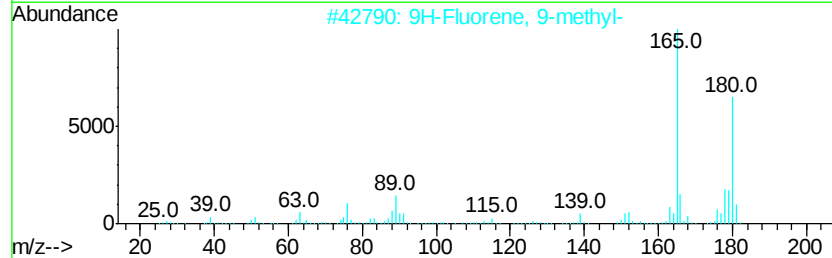
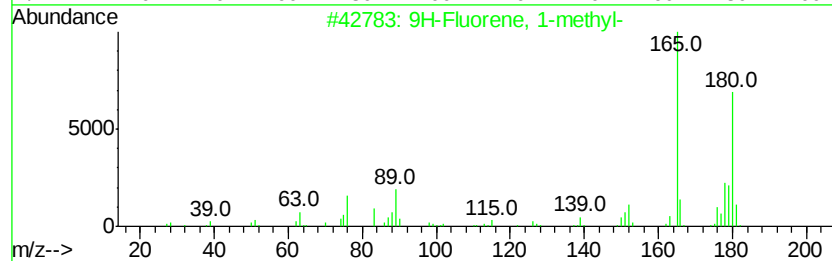
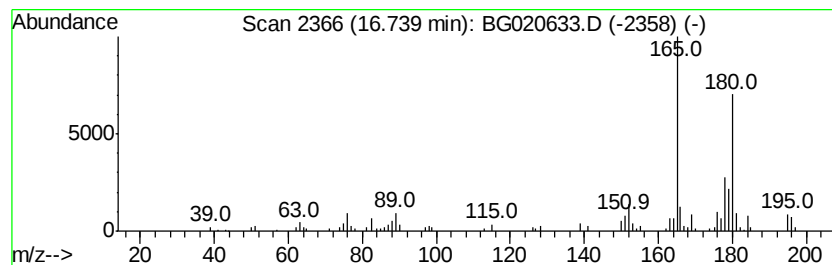
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 28 9H-Fluorene, 1-methyl- Concentration Rank 16

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.74 | 9.03 ng/ul | 171809 | Phenanthrene-d10 | 17.44 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 95   |
| 2    |    |   | 9H-Fluorene, 9-methyl- | 180 | C14H12  | 002523-37-7 | 95   |
| 3    |    |   | 9H-Fluorene, 2-methyl- | 180 | C14H12  | 001430-97-3 | 94   |
| 4    |    |   | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 94   |
| 5    |    |   | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 93   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

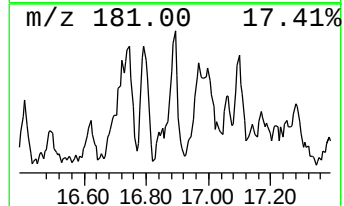
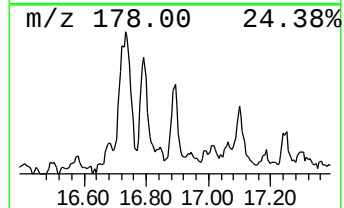
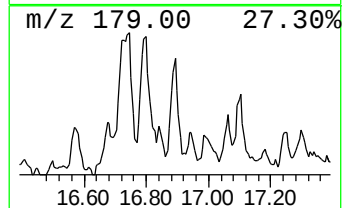
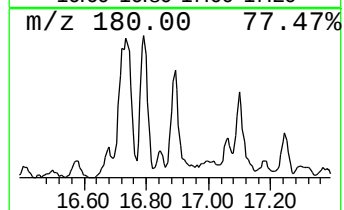
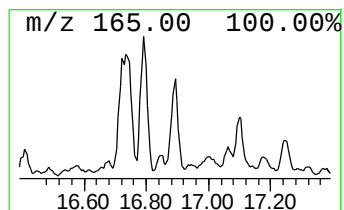
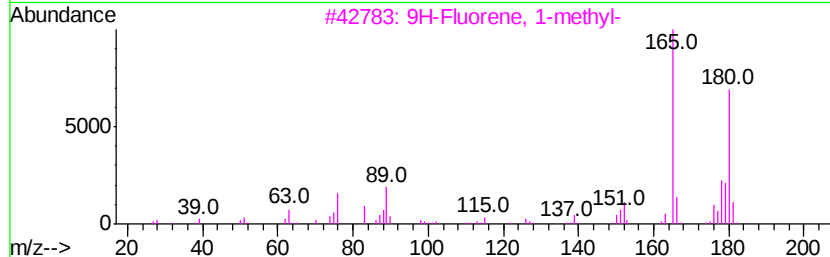
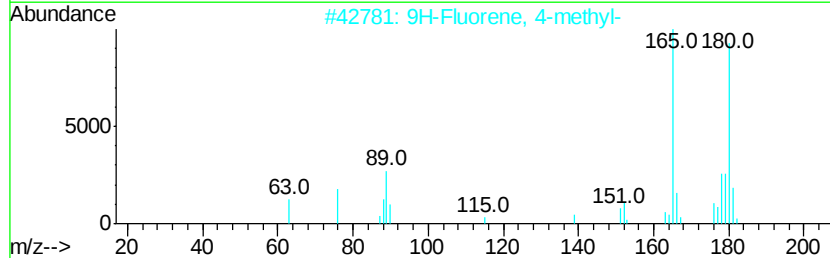
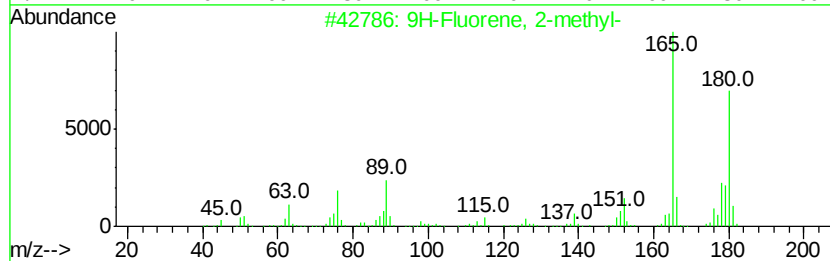
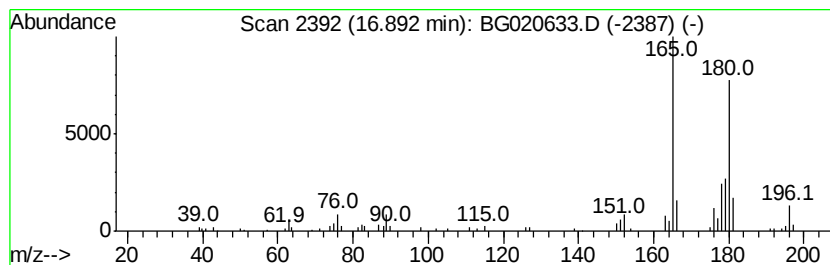
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 30 9H-Fluorene, 2-methyl- Concentration Rank 34

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 16.89 | 4.09 ng/ul | 77778 | Phenanthrene-d10 | 17.44 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | 9H-Fluorene, 2-methyl- | 180 | C14H12  | 001430-97-3 | 90   |
| 2    |    |   | 9H-Fluorene, 4-methyl- | 180 | C14H12  | 001556-99-6 | 90   |
| 3    |    |   | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 90   |
| 4    |    |   | 9H-Fluorene, 9-methyl- | 180 | C14H12  | 002523-37-7 | 89   |
| 5    |    |   | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 81   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020633.D  
Acq On : 31 Dec 2015 9:25  
Operator : UM/SJ  
Sample : G4802-13DL 30X  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
G9D88DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION

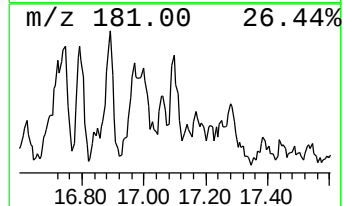
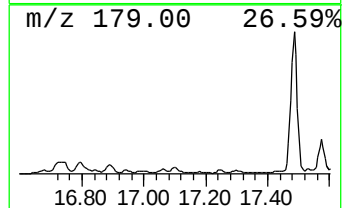
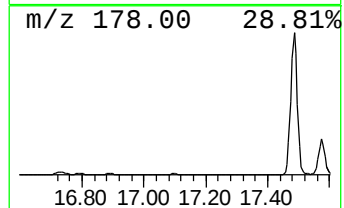
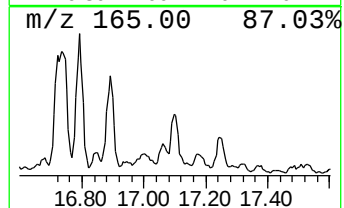
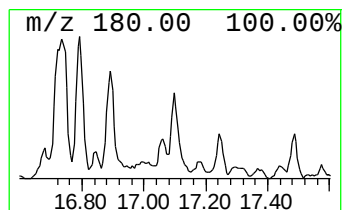
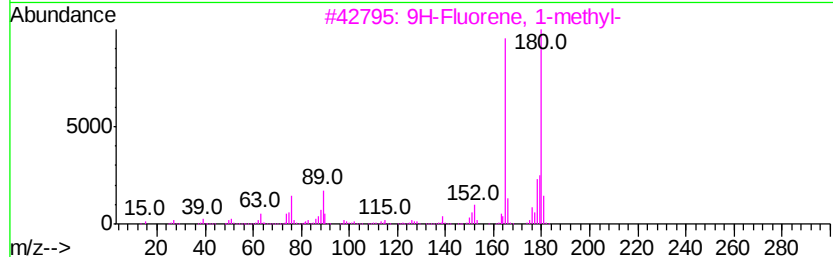
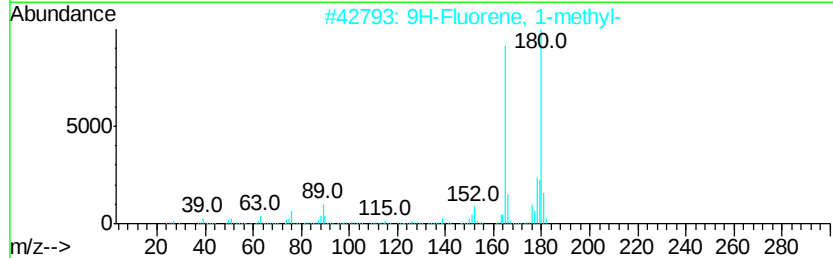
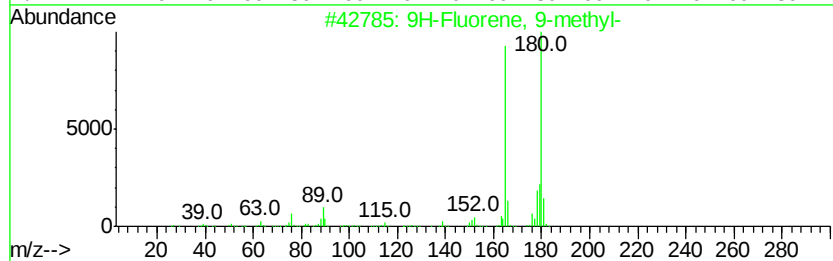
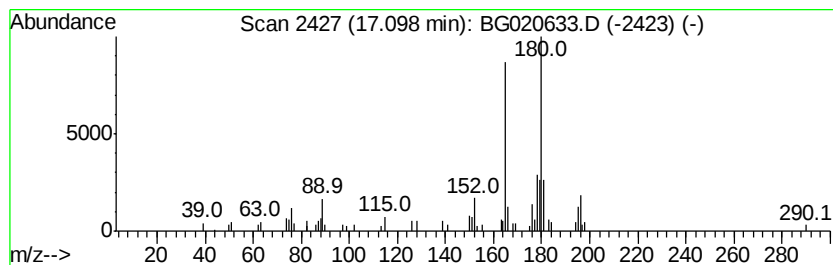
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 31 9H-Fluorene, 9-methyl- Concentration Rank 51

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 17.10 | 2.60 ng/ul | 49494 | Phenanthrene-d10 | 17.44 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | 9H-Fluorene, 9-methyl- | 180 | C14H12  | 002523-37-7 | 93   |
| 2    |    | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 93   |
| 3    |    | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 89   |
| 4    |    | 9H-Fluorene, 4-methyl- | 180 | C14H12  | 001556-99-6 | 89   |
| 5    |    | 9H-Fluorene, 2-methyl- | 180 | C14H12  | 001430-97-3 | 89   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG123015\  
 Data File : BG020633.D  
 Acq On : 31 Dec 2015 9:25  
 Operator : UM/SJ  
 Sample : G4802-13DL 30X  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 G9D88DL

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG123015.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 |
| Indane                | 8.43  | 19.9    | ng/ul | 100451   | 1                     | 8.06  | 100776 | 20.0 |
| Benzene, 4-ethyl-...  | 9.17  | 4.4     | ng/ul | 22222    | 1                     | 8.06  | 100776 | 20.0 |
| Benzene, 2-etheny...  | 10.11 | 2.9     | ng/ul | 24076    | 2                     | 10.88 | 164046 | 20.0 |
| 1,4-Dihydronaphth...  | 10.29 | 9.9     | ng/ul | 81635    | 2                     | 10.88 | 164046 | 20.0 |
| Benzene, 1-butyryl-   | 10.37 | 9.1     | ng/ul | 74459    | 2                     | 10.88 | 164046 | 20.0 |
| Naphthalene, 1,2-...  | 11.72 | 2.6     | ng/ul | 20975    | 2                     | 10.88 | 164046 | 20.0 |
| 1H-Indene, 1,1-di...  | 11.96 | 3.1     | ng/ul | 25830    | 2                     | 10.88 | 164046 | 20.0 |
| Naphthalene, 1-me...  | 12.74 | 87.8    | ng/ul | 720563   | 2                     | 10.88 | 164046 | 20.0 |
| Naphthalene, 1-et...  | 13.73 | 25.0    | ng/ul | 334351   | 3                     | 14.69 | 267853 | 20.0 |
| Naphthalene, 1,6-...  | 14.01 | 33.6    | ng/ul | 449996   | 3                     | 14.69 | 267853 | 20.0 |
| Naphthalene, 2,6-...  | 14.07 | 19.8    | ng/ul | 265606   | 3                     | 14.69 | 267853 | 20.0 |
| Naphthalene, 2,3-...  | 14.25 | 14.8    | ng/ul | 198081   | 3                     | 14.69 | 267853 | 20.0 |
| Naphthalene, 1,4,...  | 14.89 | 10.3    | ng/ul | 137468   | 3                     | 14.69 | 267853 | 20.0 |
| 1-(2,2-Dimethylcy...  | 14.98 | 2.7     | ng/ul | 35642    | 3                     | 14.69 | 267853 | 20.0 |
| Naphthalene, 2,3,...  | 15.16 | 7.7     | ng/ul | 102989   | 3                     | 14.69 | 267853 | 20.0 |
| 1H-Phenylene          | 15.56 | 6.6     | ng/ul | 87844    | 3                     | 14.69 | 267853 | 20.0 |
| Benzene, [1-(2,4-...  | 15.83 | 2.6     | ng/ul | 34738    | 3                     | 14.69 | 267853 | 20.0 |
| 1-Isopropenyl naph... | 15.95 | 5.9     | ng/ul | 78568    | 3                     | 14.69 | 267853 | 20.0 |
| Benzene, (4,5,5-t...  | 16.40 | 3.9     | ng/ul | 73232    | 4                     | 17.44 | 380466 | 20.0 |
| 9H-Fluorene, 1-me...  | 16.74 | 9.0     | ng/ul | 171809   | 4                     | 17.44 | 380466 | 20.0 |
| 9H-Fluorene, 2-me...  | 16.89 | 4.1     | ng/ul | 77778    | 4                     | 17.44 | 380466 | 20.0 |
| 9H-Fluorene, 9-me...  | 17.10 | 2.6     | ng/ul | 49494    | 4                     | 17.44 | 380466 | 20.0 |