

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
 Data File : BG020403.D  
 Acq On : 22 Dec 2015 8:07  
 Operator : UM/SJ  
 Sample : G4848-08DL 30X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N54DL

## 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-BG121415.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 8.090       | 888           | 894         | 902          | rVB      | 58182          | 96239         | 2.20%           | 0.323%        |
| 2         | 8.466       | 952           | 958         | 964          | rBB      | 19827          | 31051         | 0.71%           | 0.104%        |
| 3         | 8.630       | 979           | 986         | 993          | rBV      | 45067          | 75470         | 1.72%           | 0.253%        |
| 4         | 10.299      | 1264          | 1270        | 1281         | rBB4     | 12912          | 32672         | 0.75%           | 0.110%        |
| 5         | 10.910      | 1367          | 1374        | 1377         | rBV      | 78683          | 147058        | 3.36%           | 0.493%        |
| 6         | 10.969      | 1377          | 1384        | 1396         | rVV      | 1105809        | 2063242       | 47.10%          | 6.923%        |
| 7         | 11.080      | 1396          | 1403        | 1413         | rVB      | 35727          | 62062         | 1.42%           | 0.208%        |
| 8         | 12.561      | 1646          | 1655        | 1666         | rVV      | 685619         | 1089786       | 24.88%          | 3.657%        |
| 9         | 12.778      | 1680          | 1692        | 1702         | rVB      | 312331         | 526622        | 12.02%          | 1.767%        |
| 10        | 13.554      | 1816          | 1824        | 1832         | rBV      | 201027         | 308477        | 7.04%           | 1.035%        |
| 11        | 13.754      | 1851          | 1858        | 1868         | rVB      | 76700          | 137717        | 3.14%           | 0.462%        |
| 12        | 13.883      | 1869          | 1880        | 1881         | rBV      | 100168         | 132013        | 3.01%           | 0.443%        |
| 13        | 14.042      | 1900          | 1907        | 1912         | rVV      | 142527         | 260275        | 5.94%           | 0.873%        |
| 14        | 14.094      | 1912          | 1916        | 1924         | rVV      | 98900          | 163741        | 3.74%           | 0.549%        |
| 15        | 14.277      | 1940          | 1947        | 1951         | rBV      | 57047          | 93409         | 2.13%           | 0.313%        |
| 16        | 14.447      | 1965          | 1976        | 1981         | rBV3     | 58156          | 102178        | 2.33%           | 0.343%        |
| 17        | 14.688      | 2012          | 2017        | 2020         | rBV      | 87163          | 137373        | 3.14%           | 0.461%        |
| 18        | 14.723      | 2020          | 2023        | 2028         | rVV2     | 136404         | 214863        | 4.90%           | 0.721%        |
| 19        | 14.794      | 2028          | 2035        | 2041         | rVV      | 1099029        | 1713687       | 39.12%          | 5.750%        |
| 20        | 14.852      | 2041          | 2045        | 2051         | rVV      | 39320          | 60397         | 1.38%           | 0.203%        |
| 21        | 14.923      | 2051          | 2057        | 2066         | rVV2     | 24784          | 55393         | 1.26%           | 0.186%        |
| 22        | 15.029      | 2066          | 2075        | 2080         | rVV2     | 42946          | 78426         | 1.79%           | 0.263%        |
| 23        | 15.123      | 2084          | 2091        | 2098         | rVV      | 720269         | 1118724       | 25.54%          | 3.754%        |
| 24        | 15.193      | 2098          | 2103        | 2112         | rVB      | 32613          | 52128         | 1.19%           | 0.175%        |
| 25        | 15.334      | 2119          | 2127        | 2132         | rBV3     | 25067          | 44758         | 1.02%           | 0.150%        |
| 26        | 15.387      | 2132          | 2136        | 2148         | rVB2     | 28112          | 43740         | 1.00%           | 0.147%        |
| 27        | 15.505      | 2148          | 2156        | 2159         | rBV2     | 20494          | 40671         | 0.93%           | 0.136%        |
| 28        | 15.681      | 2182          | 2186        | 2189         | rVV3     | 23707          | 34620         | 0.79%           | 0.116%        |
| 29        | 15.775      | 2194          | 2202        | 2210         | rVV      | 937473         | 1508937       | 34.45%          | 5.063%        |
| 30        | 15.863      | 2210          | 2217        | 2219         | rVV      | 46176          | 78474         | 1.79%           | 0.263%        |
| 31        | 15.892      | 2219          | 2222        | 2225         | rVV2     | 80133          | 125023        | 2.85%           | 0.420%        |
| 32        | 15.928      | 2225          | 2228        | 2233         | rVV2     | 141174         | 218473        | 4.99%           | 0.733%        |
| 33        | 15.981      | 2233          | 2237        | 2240         | rVV2     | 32490          | 56599         | 1.29%           | 0.190%        |
| 34        | 16.016      | 2240          | 2243        | 2246         | rVV2     | 71589          | 104936        | 2.40%           | 0.352%        |

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 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 16.057 | 2246 | 2250 | 2259 | rVV  | 147156  | 229893  | 5.25%   | 0.771%  |
| 36 | 16.204 | 2266 | 2275 | 2283 | rVV  | 156370  | 338993  | 7.74%   | 1.138%  |
| 37 | 16.298 | 2287 | 2291 | 2297 | rVV  | 27542   | 43084   | 0.98%   | 0.145%  |
| 38 | 16.562 | 2331 | 2336 | 2342 | rVV  | 87409   | 135569  | 3.09%   | 0.455%  |
| 39 | 16.768 | 2360 | 2371 | 2376 | rVV2 | 116487  | 261075  | 5.96%   | 0.876%  |
| 40 | 16.815 | 2376 | 2379 | 2385 | rVV2 | 43803   | 79668   | 1.82%   | 0.267%  |
| 41 | 16.921 | 2391 | 2397 | 2401 | rVB3 | 44680   | 79955   | 1.83%   | 0.268%  |
| 42 | 16.997 | 2401 | 2410 | 2413 | rBV2 | 38198   | 94442   | 2.16%   | 0.317%  |
| 43 | 17.032 | 2413 | 2416 | 2420 | rVV2 | 49660   | 79792   | 1.82%   | 0.268%  |
| 44 | 17.120 | 2427 | 2431 | 2437 | rVB4 | 18202   | 34101   | 0.78%   | 0.114%  |
| 45 | 17.197 | 2437 | 2444 | 2454 | rBV3 | 51979   | 151217  | 3.45%   | 0.507%  |
| 46 | 17.285 | 2454 | 2459 | 2474 | rVB  | 215645  | 344552  | 7.87%   | 1.156%  |
| 47 | 17.473 | 2484 | 2491 | 2493 | rBV  | 191582  | 297402  | 6.79%   | 0.998%  |
| 48 | 17.526 | 2493 | 2500 | 2505 | rVV  | 2625242 | 4380619 | 100.00% | 14.699% |
| 49 | 17.573 | 2505 | 2508 | 2509 | rVV2 | 42372   | 53897   | 1.23%   | 0.181%  |
| 50 | 17.602 | 2509 | 2513 | 2518 | rVV  | 225394  | 340833  | 7.78%   | 1.144%  |
| 51 | 17.649 | 2518 | 2521 | 2527 | rVB4 | 19054   | 37777   | 0.86%   | 0.127%  |
| 52 | 17.872 | 2547 | 2559 | 2568 | rBV  | 135848  | 259502  | 5.92%   | 0.871%  |
| 53 | 17.984 | 2573 | 2578 | 2584 | rVV2 | 52681   | 81751   | 1.87%   | 0.274%  |
| 54 | 18.049 | 2585 | 2589 | 2598 | rVB5 | 22887   | 46787   | 1.07%   | 0.157%  |
| 55 | 18.190 | 2603 | 2613 | 2622 | rVB  | 22070   | 53327   | 1.22%   | 0.179%  |
| 56 | 18.342 | 2634 | 2639 | 2643 | rVV  | 217414  | 317196  | 7.24%   | 1.064%  |
| 57 | 18.389 | 2643 | 2647 | 2653 | rVB  | 288453  | 425466  | 9.71%   | 1.428%  |
| 58 | 18.472 | 2653 | 2661 | 2666 | rBV  | 98283   | 160720  | 3.67%   | 0.539%  |
| 59 | 18.542 | 2666 | 2673 | 2684 | rVV2 | 373387  | 784587  | 17.91%  | 2.633%  |
| 60 | 18.777 | 2709 | 2713 | 2717 | rVV4 | 21062   | 34115   | 0.78%   | 0.114%  |
| 61 | 18.836 | 2717 | 2723 | 2728 | rVV  | 171328  | 246749  | 5.63%   | 0.828%  |
| 62 | 19.077 | 2760 | 2764 | 2769 | rVB3 | 35439   | 46317   | 1.06%   | 0.155%  |
| 63 | 19.130 | 2769 | 2773 | 2776 | rBV  | 28119   | 35708   | 0.82%   | 0.120%  |
| 64 | 19.165 | 2776 | 2779 | 2783 | rVB  | 29914   | 36714   | 0.84%   | 0.123%  |
| 65 | 19.247 | 2787 | 2793 | 2798 | rBV2 | 59937   | 111931  | 2.56%   | 0.376%  |
| 66 | 19.312 | 2799 | 2804 | 2808 | rBV2 | 27943   | 46627   | 1.06%   | 0.156%  |
| 67 | 19.523 | 2832 | 2840 | 2845 | rBV  | 1698241 | 2534914 | 57.87%  | 8.506%  |
| 68 | 19.570 | 2845 | 2848 | 2851 | rVV  | 32711   | 48215   | 1.10%   | 0.162%  |
| 69 | 19.606 | 2851 | 2854 | 2859 | rVV  | 38283   | 58487   | 1.34%   | 0.196%  |
| 70 | 19.758 | 2873 | 2880 | 2889 | rVB2 | 52524   | 104001  | 2.37%   | 0.349%  |
| 71 | 19.852 | 2889 | 2896 | 2897 | rBV2 | 316894  | 506552  | 11.56%  | 1.700%  |

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ClientSampleId :  
D9N54DL

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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-BG121415.M  
Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 19.882 | 2897 | 2901 | 2908 | rVV  | 1075539 | 1662568 | 37.95% | 5.579% |
| 73  | 19.941 | 2908 | 2911 | 2919 | rVB2 | 66400   | 110317  | 2.52%  | 0.370% |
| 74  | 20.052 | 2924 | 2930 | 2935 | rVB  | 70428   | 103423  | 2.36%  | 0.347% |
| 75  | 20.193 | 2948 | 2954 | 2961 | rBV3 | 65948   | 174353  | 3.98%  | 0.585% |
| 76  | 20.252 | 2961 | 2964 | 2969 | rVB  | 32666   | 41662   | 0.95%  | 0.140% |
| 77  | 20.328 | 2971 | 2977 | 2978 | rBV3 | 34454   | 54014   | 1.23%  | 0.181% |
| 78  | 20.364 | 2978 | 2983 | 2988 | rVB  | 221446  | 335002  | 7.65%  | 1.124% |
| 79  | 20.464 | 2994 | 3000 | 3004 | rBV  | 252609  | 367987  | 8.40%  | 1.235% |
| 80  | 20.522 | 3004 | 3010 | 3014 | rVV2 | 72258   | 157056  | 3.59%  | 0.527% |
| 81  | 20.558 | 3014 | 3016 | 3020 | rVV  | 47138   | 61574   | 1.41%  | 0.207% |
| 82  | 20.599 | 3020 | 3023 | 3028 | rVB2 | 24973   | 39067   | 0.89%  | 0.131% |
| 83  | 20.663 | 3029 | 3034 | 3038 | rBV2 | 32430   | 50761   | 1.16%  | 0.170% |
| 84  | 20.710 | 3038 | 3042 | 3051 | rVB2 | 40857   | 72394   | 1.65%  | 0.243% |
| 85  | 20.892 | 3068 | 3073 | 3080 | rBV3 | 37254   | 60442   | 1.38%  | 0.203% |
| 86  | 21.080 | 3101 | 3105 | 3110 | rBV2 | 27801   | 50836   | 1.16%  | 0.171% |
| 87  | 21.127 | 3111 | 3113 | 3119 | rVV5 | 17120   | 30447   | 0.70%  | 0.102% |
| 88  | 21.315 | 3138 | 3145 | 3149 | rBV  | 58901   | 96505   | 2.20%  | 0.324% |
| 89  | 21.362 | 3149 | 3153 | 3157 | rVV  | 58437   | 92919   | 2.12%  | 0.312% |
| 90  | 21.409 | 3157 | 3161 | 3167 | rVV2 | 48265   | 98113   | 2.24%  | 0.329% |
| 91  | 21.727 | 3204 | 3215 | 3222 | rVV3 | 346567  | 962018  | 21.96% | 3.228% |
| 92  | 21.791 | 3222 | 3226 | 3240 | rVB  | 212028  | 379653  | 8.67%  | 1.274% |
| 93  | 21.944 | 3247 | 3252 | 3260 | rVB  | 49304   | 82158   | 1.88%  | 0.276% |
| 94  | 22.156 | 3282 | 3288 | 3296 | rVB4 | 24072   | 53311   | 1.22%  | 0.179% |
| 95  | 22.479 | 3335 | 3343 | 3349 | rVV  | 26914   | 67258   | 1.54%  | 0.226% |
| 96  | 22.808 | 3394 | 3399 | 3405 | rVV5 | 19473   | 39023   | 0.89%  | 0.131% |
| 97  | 23.971 | 3589 | 3597 | 3606 | rBV2 | 47227   | 181268  | 4.14%  | 0.608% |
| 98  | 24.711 | 3716 | 3723 | 3730 | rBV3 | 16357   | 45631   | 1.04%  | 0.153% |
| 99  | 24.852 | 3740 | 3747 | 3759 | rBV2 | 25616   | 80398   | 1.84%  | 0.270% |
| 100 | 25.017 | 3764 | 3775 | 3787 | rBV  | 92423   | 319234  | 7.29%  | 1.071% |

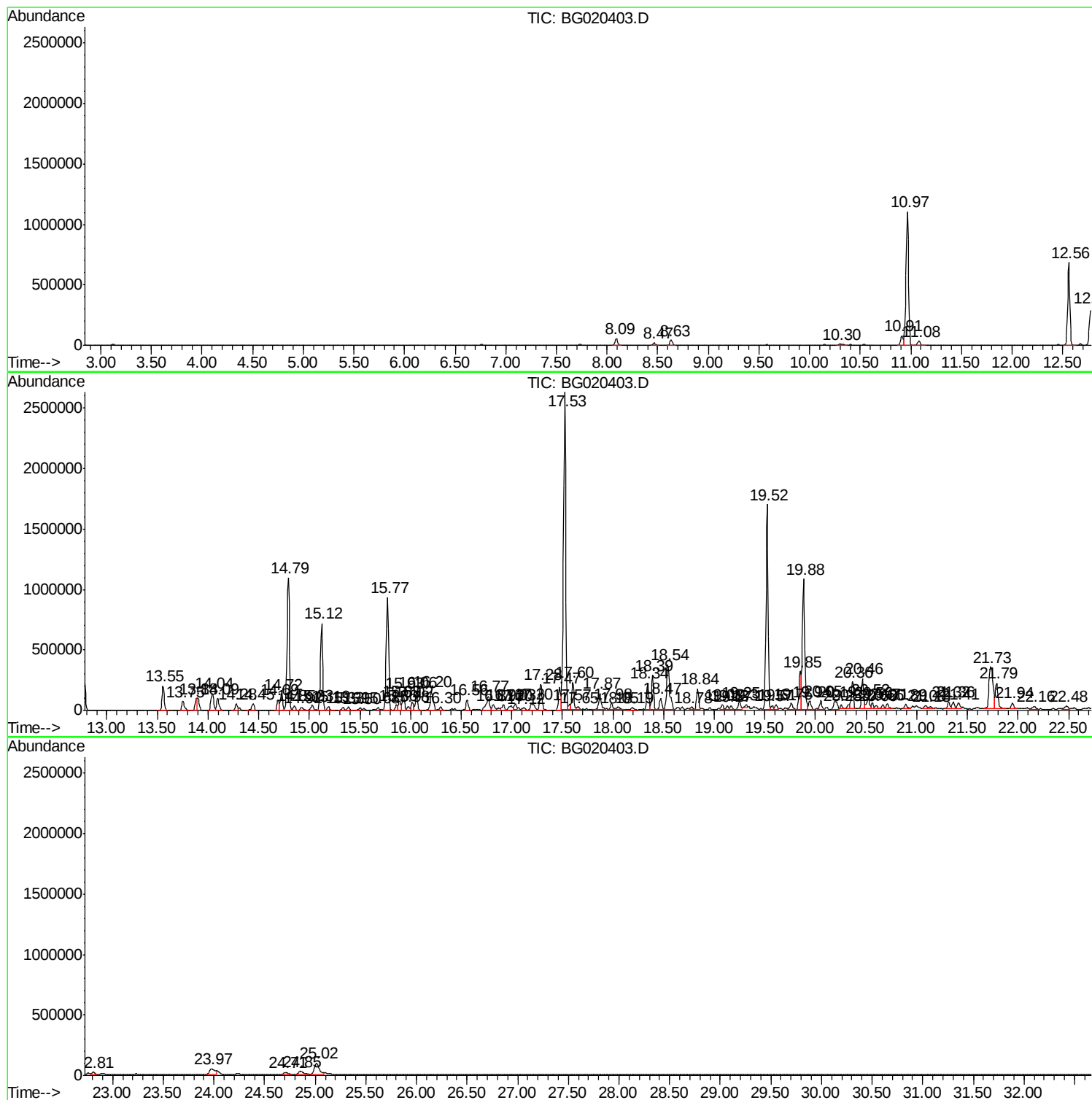
Sum of corrected areas: 29801161

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

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



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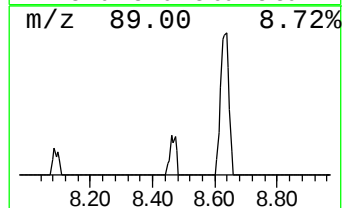
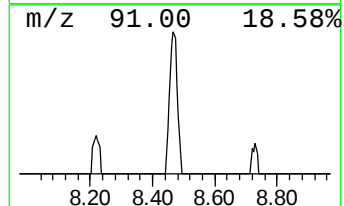
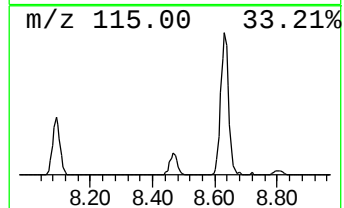
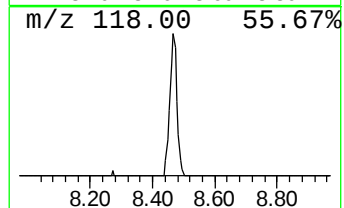
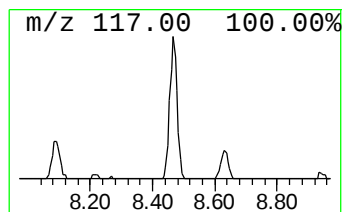
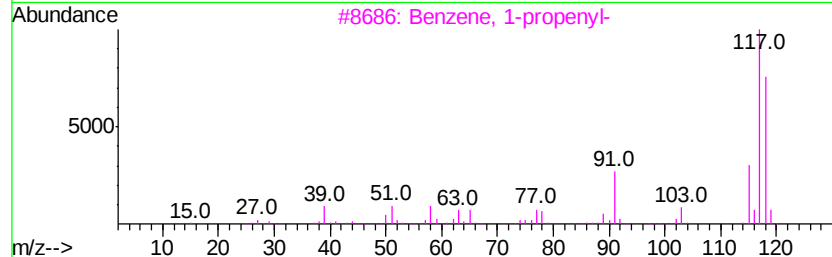
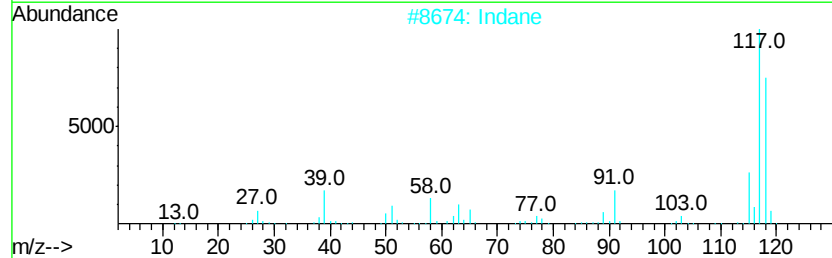
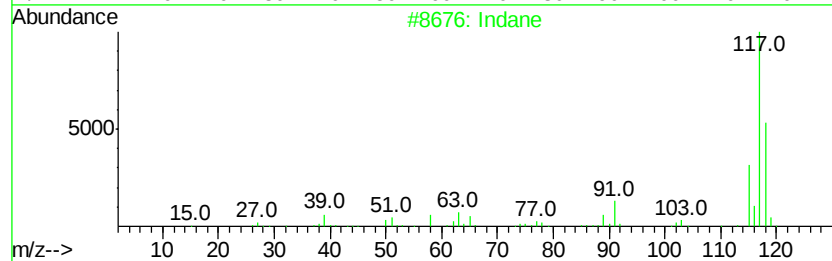
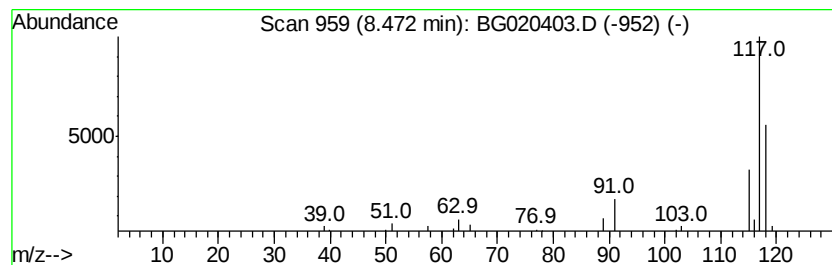
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Indane Concentration Rank 28

| R.T. | EstConc    | Area  | Relative to ISTD       | R.T. |
|------|------------|-------|------------------------|------|
| 8.47 | 6.45 ng/ul | 31051 | 1,4-Dichlorobenzene-d4 | 8.09 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Indane                | 118 | C9H10   | 000496-11-7 | 83   |
| 2    |    | Indane                | 118 | C9H10   | 000496-11-7 | 83   |
| 3    |    | Benzene, 1-propenyl-  | 118 | C9H10   | 000637-50-3 | 72   |
| 4    |    | Benzene, 1-propenyl-  | 118 | C9H10   | 000637-50-3 | 64   |
| 5    |    | Benzene, cyclopropyl- | 118 | C9H10   | 000873-49-4 | 64   |



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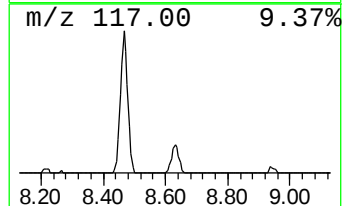
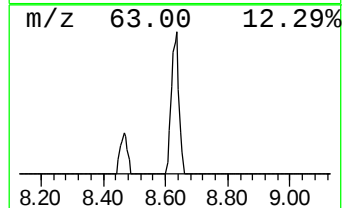
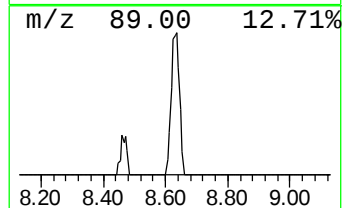
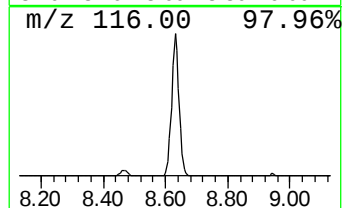
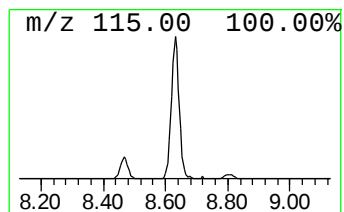
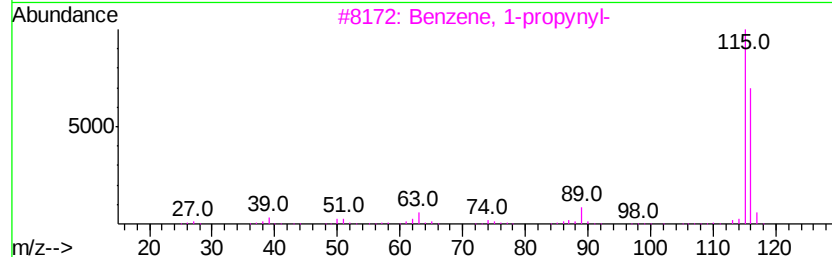
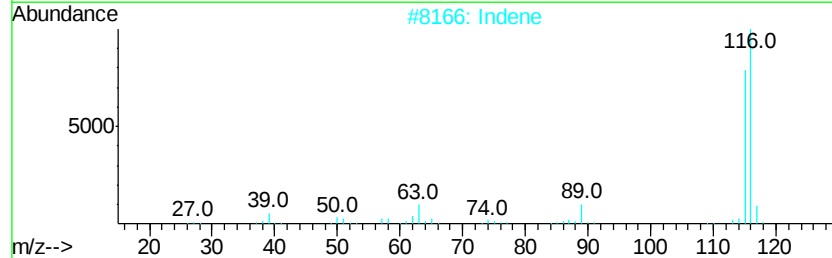
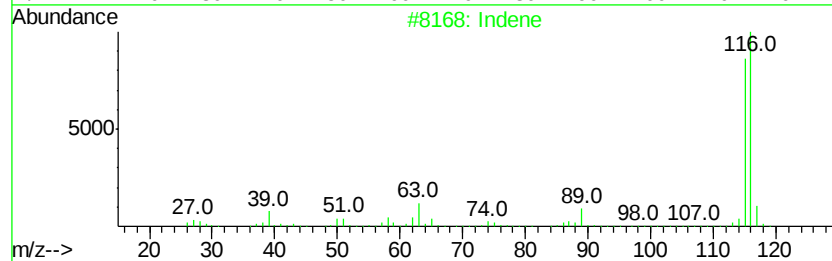
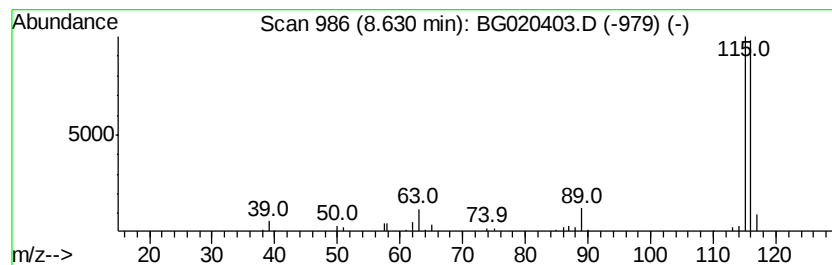
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Indene Concentration Rank 12

| R.T. | EstConc     | Area  | Relative to ISTD       | R.T. |
|------|-------------|-------|------------------------|------|
| 8.63 | 15.68 ng/ul | 75470 | 1,4-Dichlorobenzene-d4 | 8.09 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Indene               | 116 | C9H8    | 000095-13-6 | 97   |
| 2    |    | Indene               | 116 | C9H8    | 000095-13-6 | 95   |
| 3    |    | Benzene, 1-propynyl- | 116 | C9H8    | 000673-32-5 | 95   |
| 4    |    | Indene               | 116 | C9H8    | 000095-13-6 | 94   |
| 5    |    | Benzene, 1-propynyl- | 116 | C9H8    | 000673-32-5 | 91   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

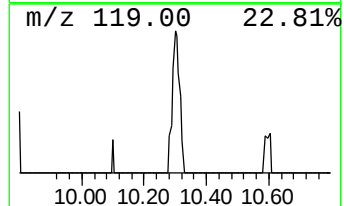
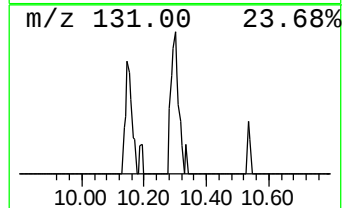
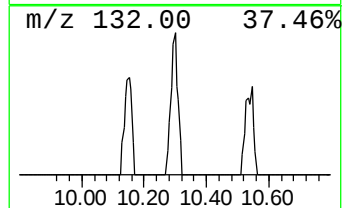
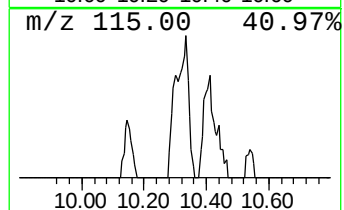
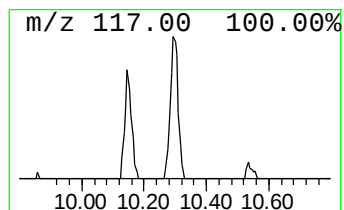
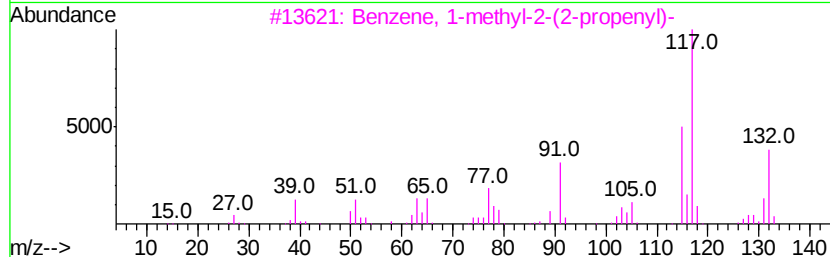
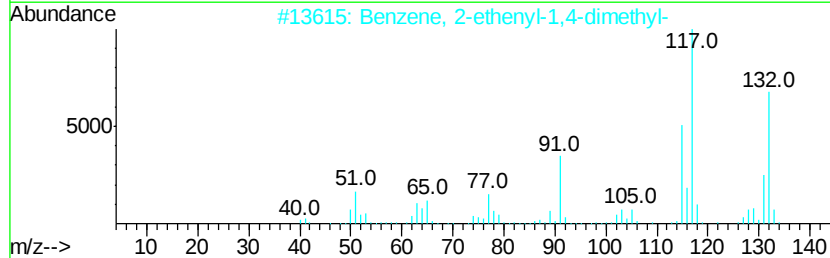
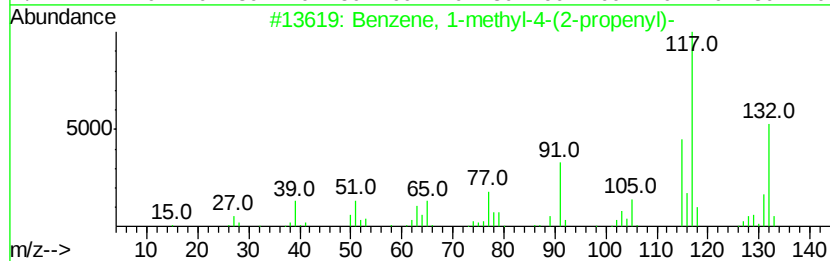
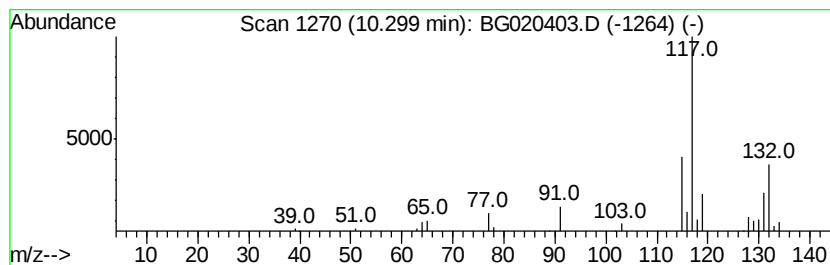
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzene, 1-methyl-4-(2-prop... Concentration Rank 38

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 10.30 | 4.44 ng/ul | 32672 | Naphthalene-d8   | 10.91 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12  | 003333-13-9 | 92   |
| 2    |    | Benzene, 2-ethenyl-1,4-dimethyl-  | 132 | C10H12  | 002039-89-6 | 70   |
| 3    |    | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 70   |
| 4    |    | 2,4-Dimethylstyrene               | 132 | C10H12  | 002234-20-0 | 70   |
| 5    |    | Benzene, 1-butenyl-, (E)-         | 132 | C10H12  | 001005-64-7 | 64   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

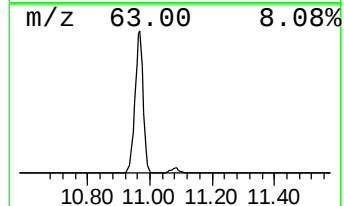
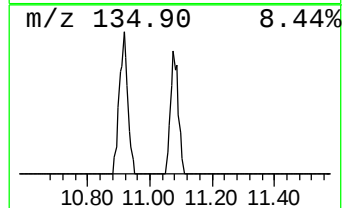
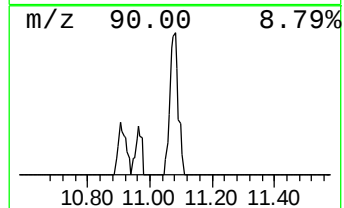
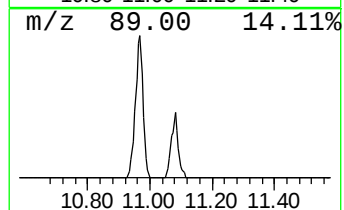
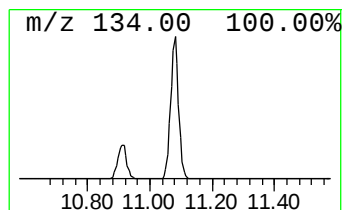
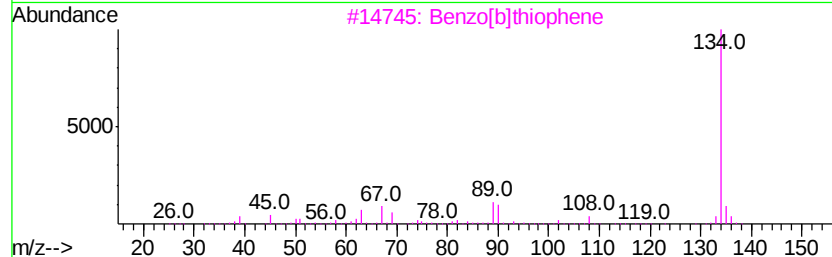
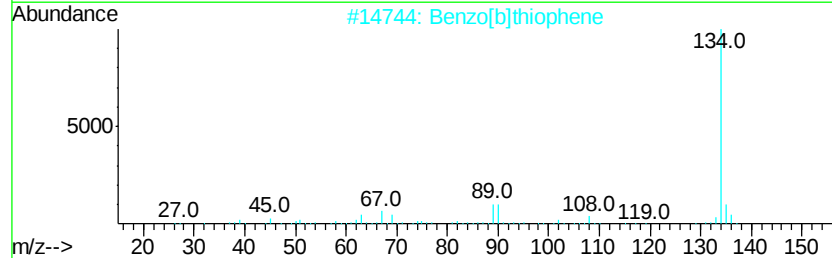
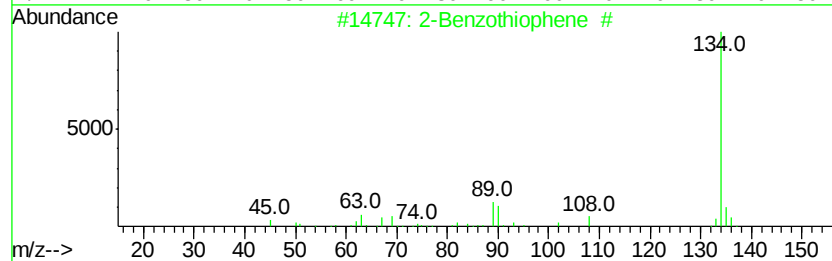
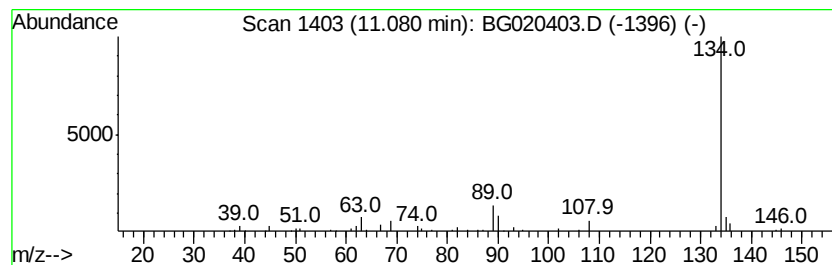
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 2-Benzothiophene # Concentration Rank 22

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 11.08 | 8.44 ng/ul | 62062 | Napthalene-d8    | 10.91 |

| Hit# of | 5                      | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------------|--------------|-----|---------|-------------|------|
| 1       | 2-Benzothiophene       | #            | 134 | C8H6S   | 000270-82-6 | 94   |
| 2       | Benzo[b]thiophene      |              | 134 | C8H6S   | 000095-15-8 | 93   |
| 3       | Benzo[b]thiophene      |              | 134 | C8H6S   | 000095-15-8 | 93   |
| 4       | Cyclopenta[c]thiapyran |              | 134 | C8H6S   | 000270-63-3 | 90   |
| 5       | Benzo[b]thiophene      |              | 134 | C8H6S   | 000095-15-8 | 90   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

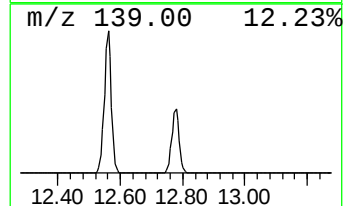
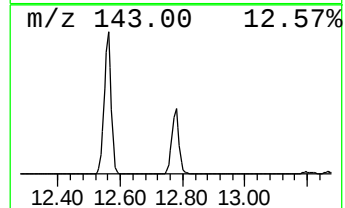
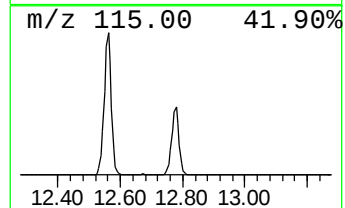
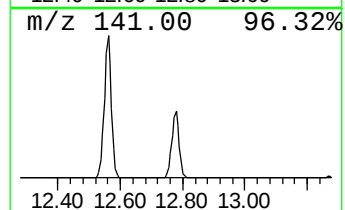
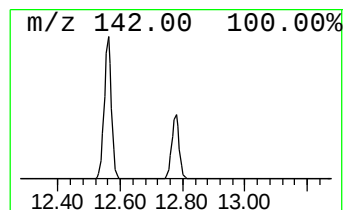
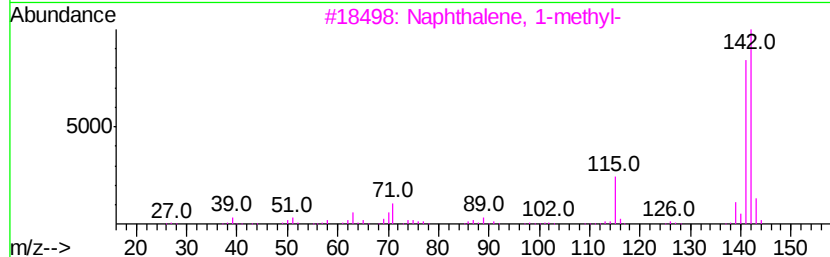
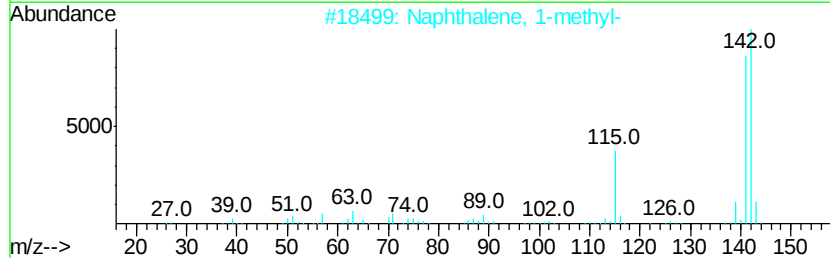
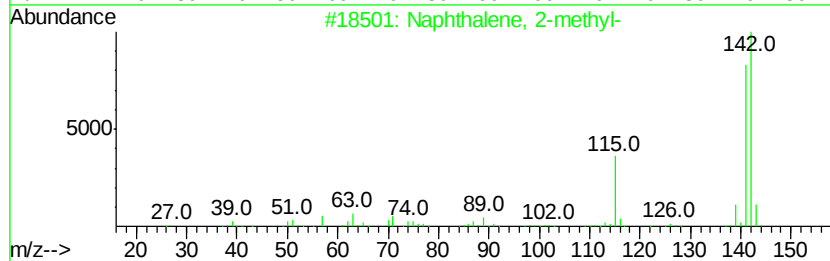
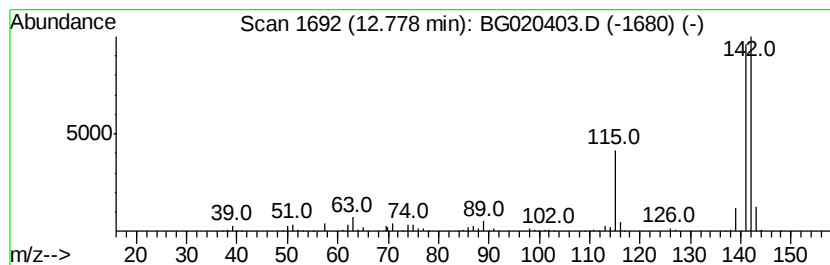
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Naphthalene, 1-methyl- Concentration Rank 1

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 12.78 | 71.62 ng/ul | 526622 | Naphthalene-d8   | 10.91 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 97   |
| 2       |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 97   |
| 3       |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 95   |
| 4       |   | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10  | 002443-46-1 | 91   |
| 5       |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

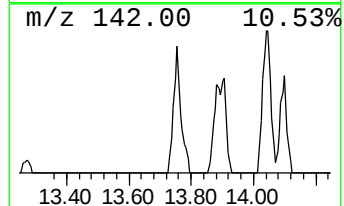
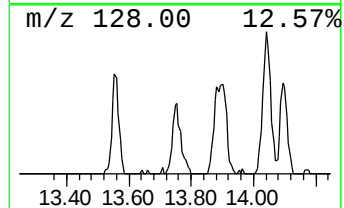
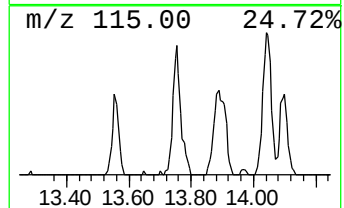
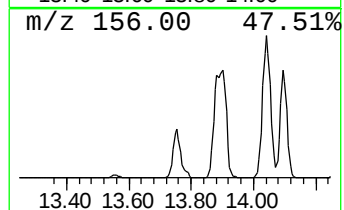
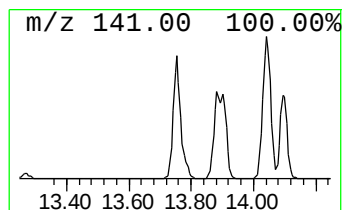
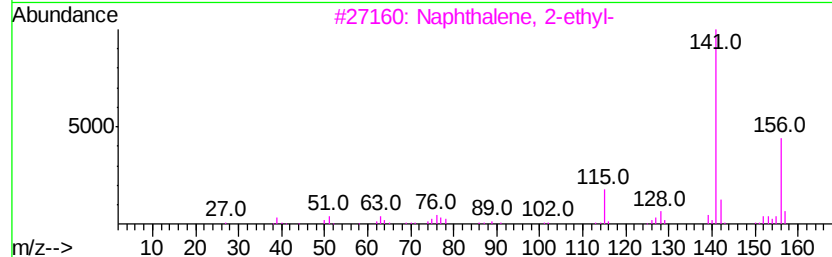
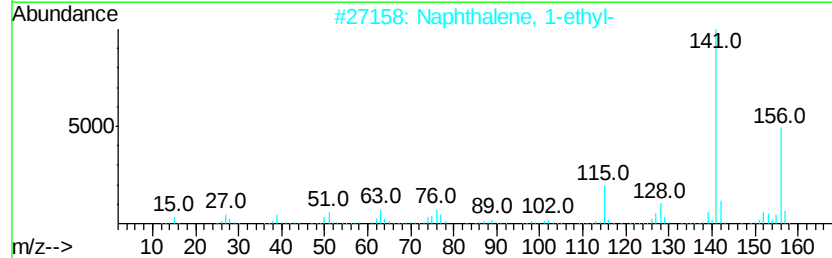
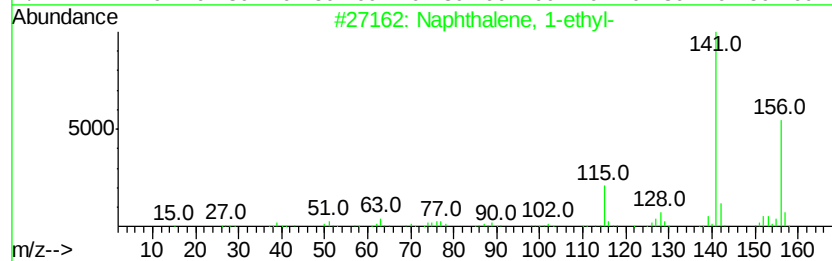
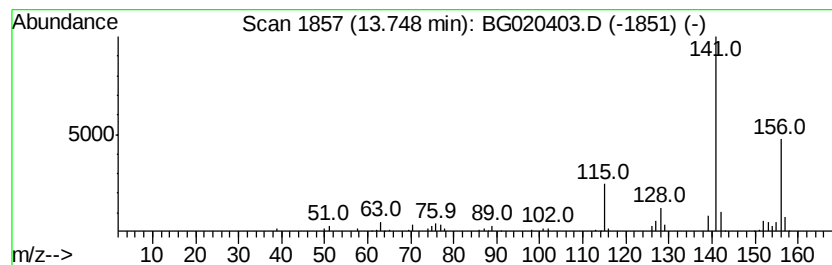
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Naphthalene, 1-ethyl- Concentration Rank 14

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 13.75 | 12.82 ng/ul | 137717 | Acenaphthene-d10 | 14.72 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-ethyl- | 156 | C12H12  | 001127-76-0 | 96   |
| 2    |    | Naphthalene, 1-ethyl- | 156 | C12H12  | 001127-76-0 | 95   |
| 3    |    | Naphthalene, 2-ethyl- | 156 | C12H12  | 000939-27-5 | 95   |
| 4    |    | Naphthalene, 1-ethyl- | 156 | C12H12  | 001127-76-0 | 95   |
| 5    |    | Naphthalene, 2-ethyl- | 156 | C12H12  | 000939-27-5 | 95   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

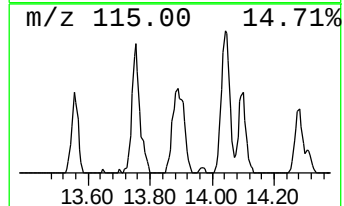
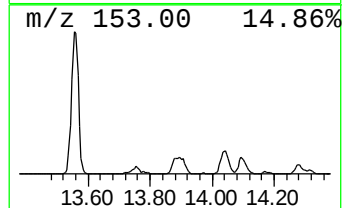
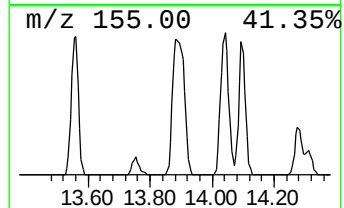
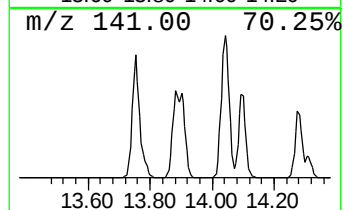
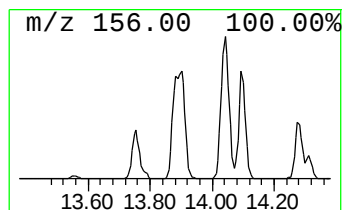
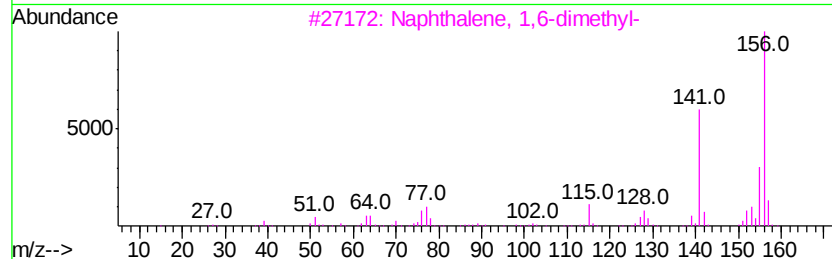
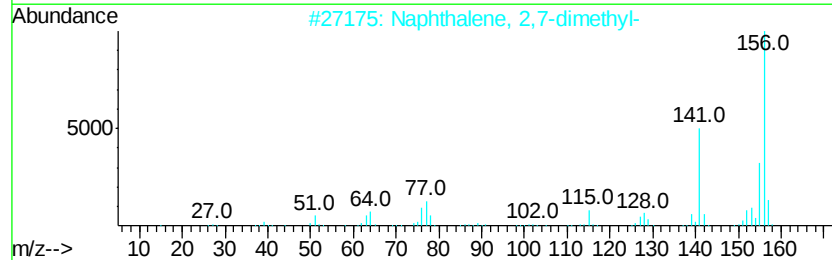
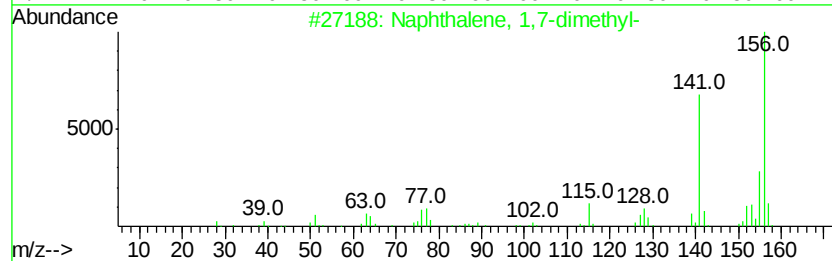
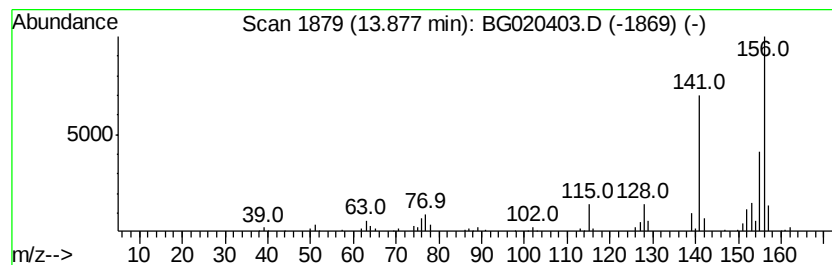
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Naphthalene, 1,7-dimethyl- Concentration Rank 15

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 13.88 | 12.29 ng/ul | 132013 | Acenaphthene-d10 | 14.72 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 2    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 3    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 4    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 5    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 97   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

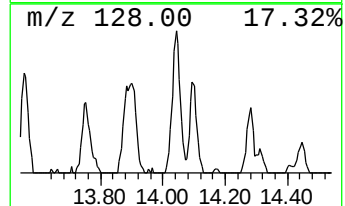
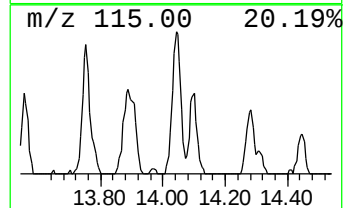
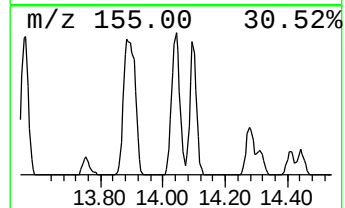
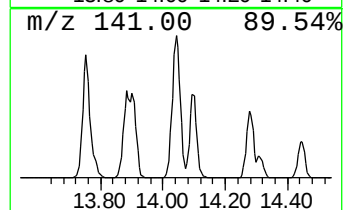
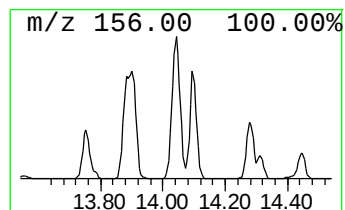
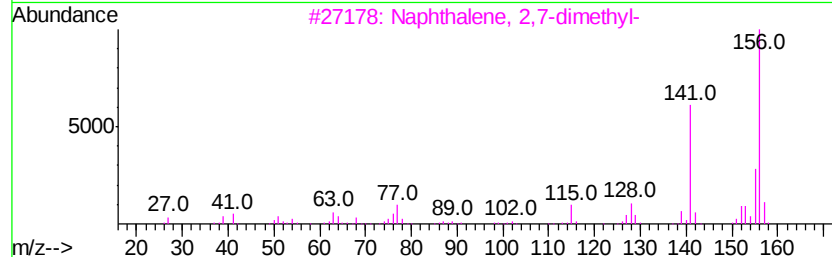
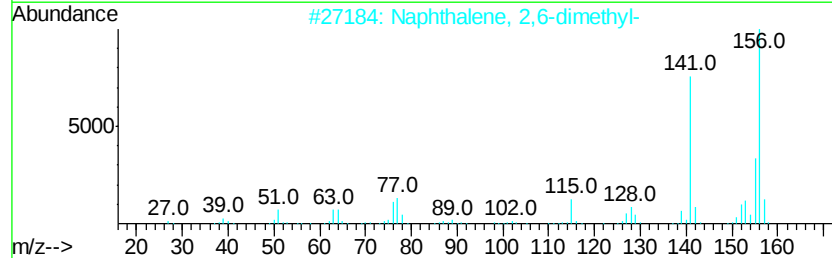
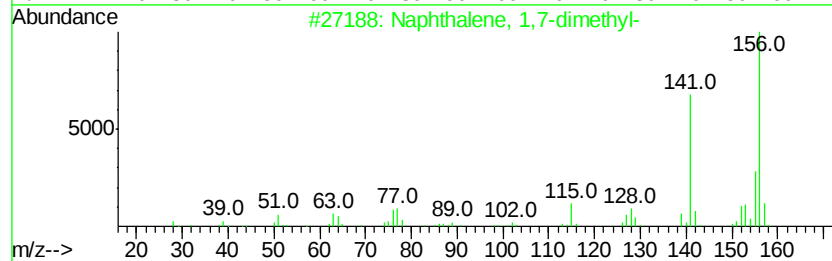
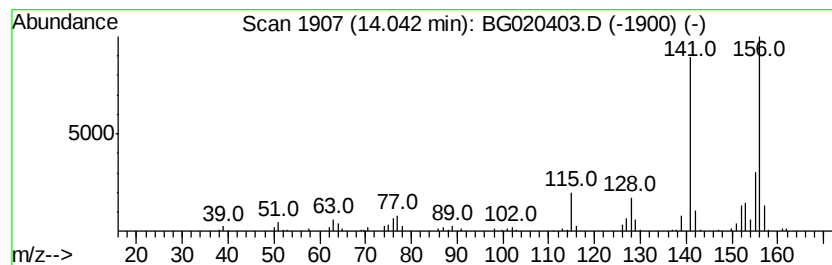
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Naphthalene, 2,6-dimethyl- Concentration Rank 4

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 14.04 | 24.23 ng/ul | 260275 | Acenaphthene-d10 | 14.72 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 2    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 97   |
| 3    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 4    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 5    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 97   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

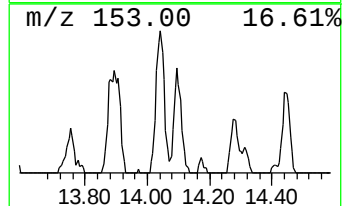
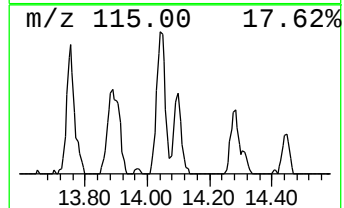
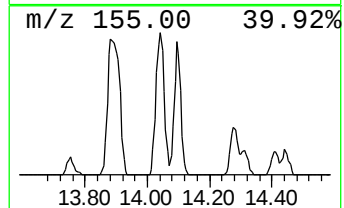
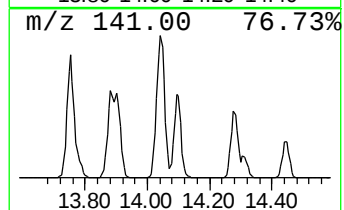
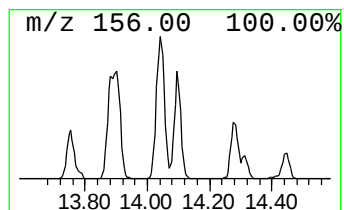
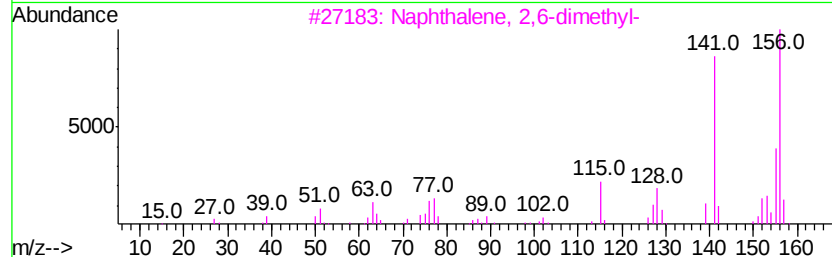
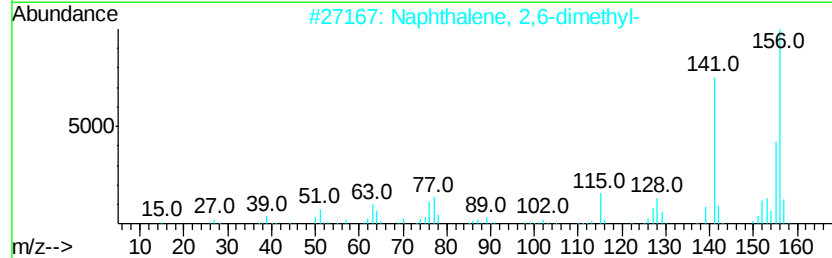
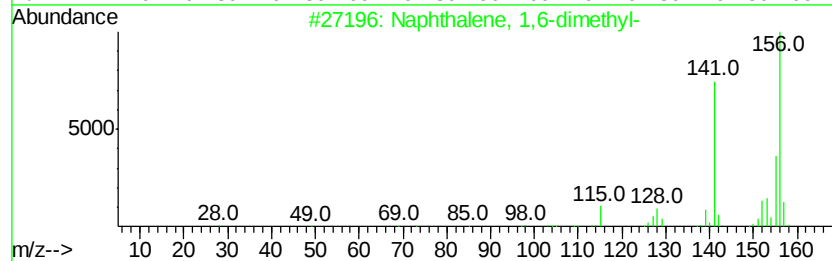
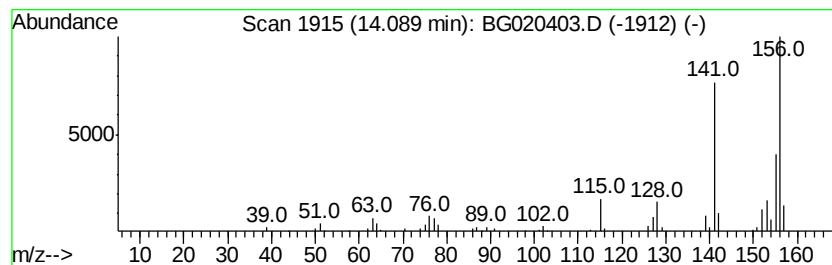
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Naphthalene, 1,6-dimethyl- Concentration Rank 13

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 14.09 | 15.24 ng/ul | 163741 | Acenaphthene-d10 | 14.72 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 2    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 96   |
| 3    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 96   |
| 4    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 96   |
| 5    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 95   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

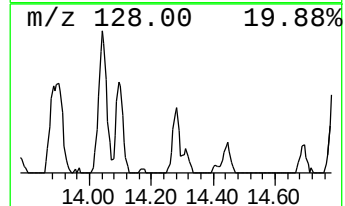
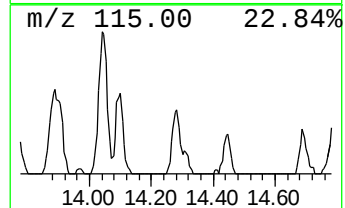
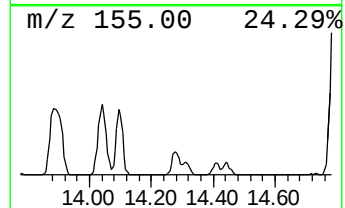
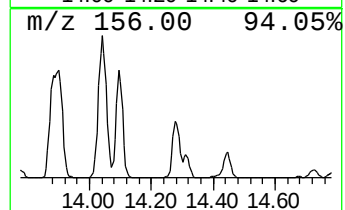
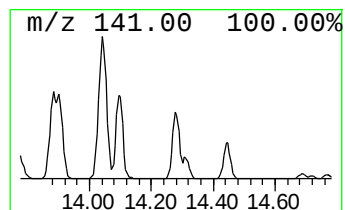
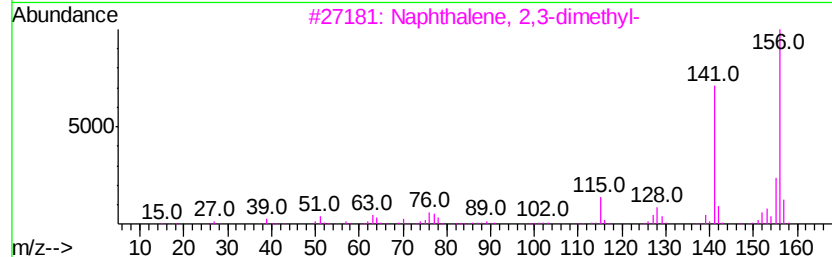
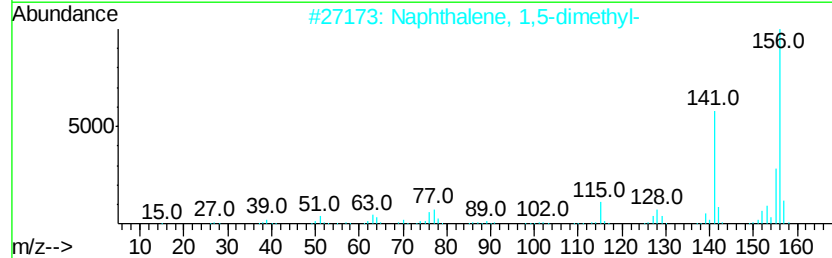
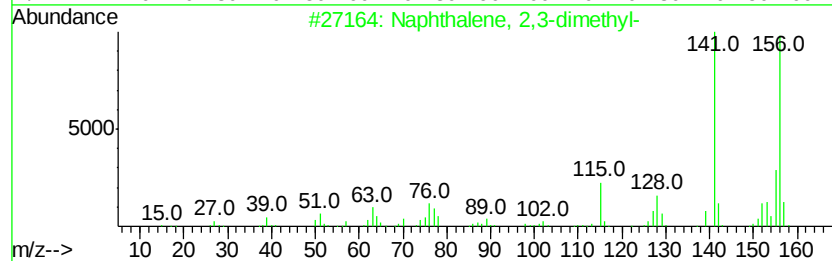
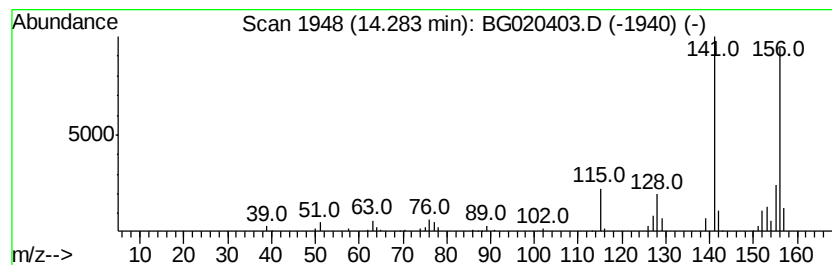
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Naphthalene, 2,3-dimethyl- Concentration Rank 21

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 14.28 | 8.69 ng/ul | 93409 | Acenaphthene-d10 | 14.72 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 2    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 3    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 4    |    | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 97   |
| 5    |    | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

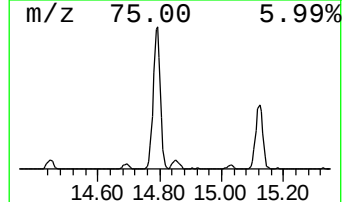
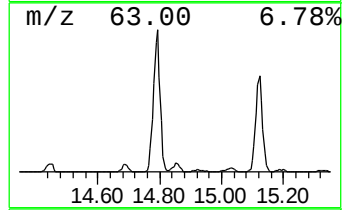
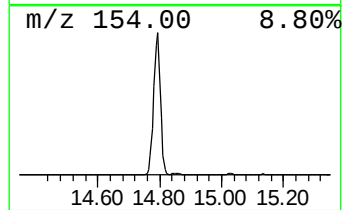
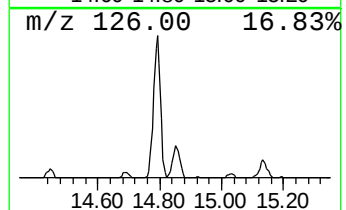
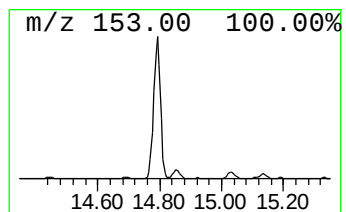
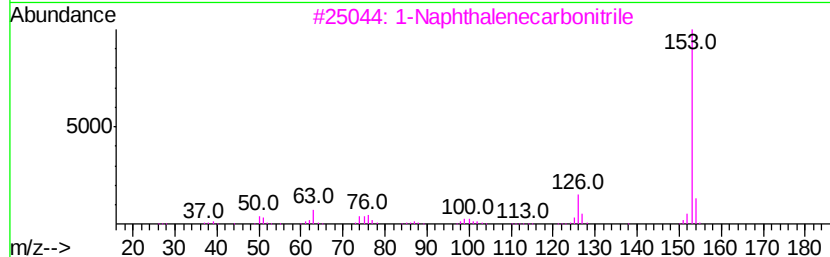
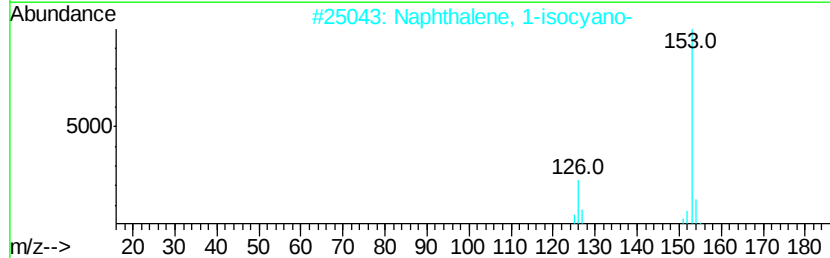
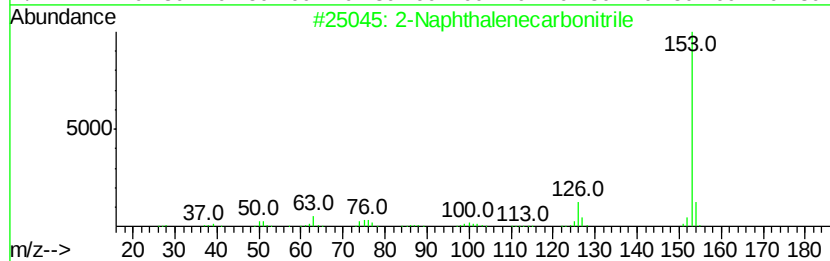
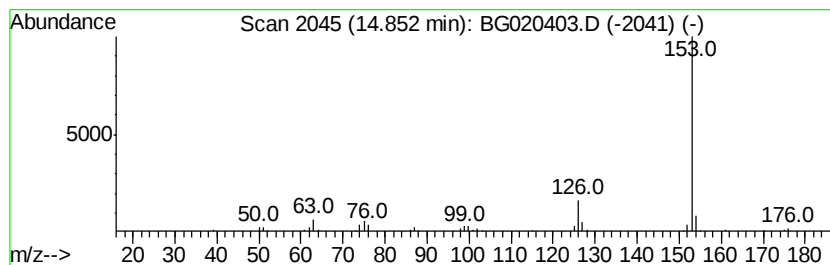
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 2-Naphthalenecarbonitrile Concentration Rank 30

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 14.85 | 5.62 ng/ul | 60397 | Acenaphthene-d10 | 14.72 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Naphthalenecarbonitrile | 153 | C11H7N  | 000613-46-7 | 90   |
| 2    |    |   | Naphthalene, 1-isocyano-  | 153 | C11H7N  | 001984-04-9 | 78   |
| 3    |    |   | 1-Naphthalenecarbonitrile | 153 | C11H7N  | 000086-53-3 | 64   |
| 4    |    |   | 1-Naphthalenecarbonitrile | 153 | C11H7N  | 000086-53-3 | 59   |
| 5    |    |   | 2-Fluorobenzothiazole     | 153 | C7H4FNS | 001123-98-4 | 53   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

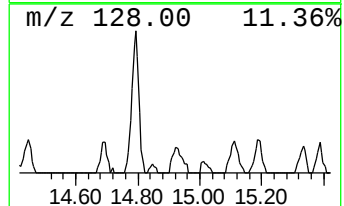
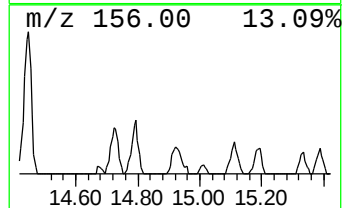
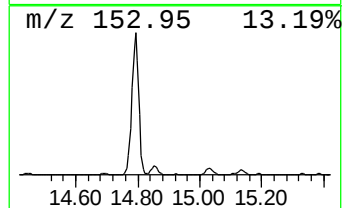
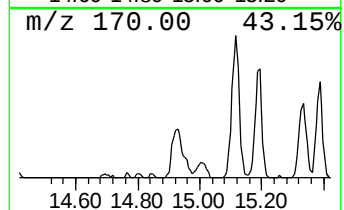
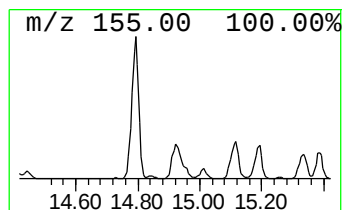
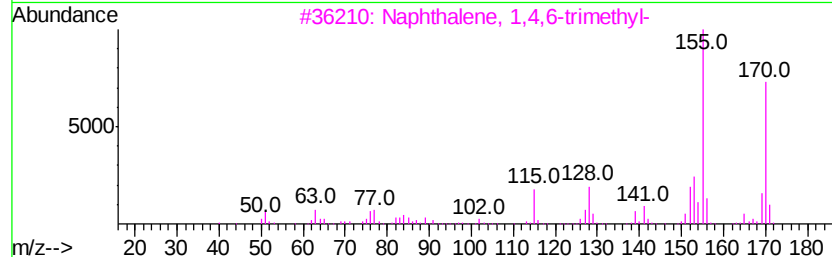
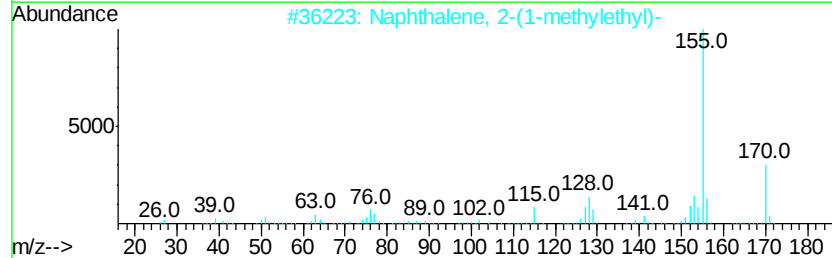
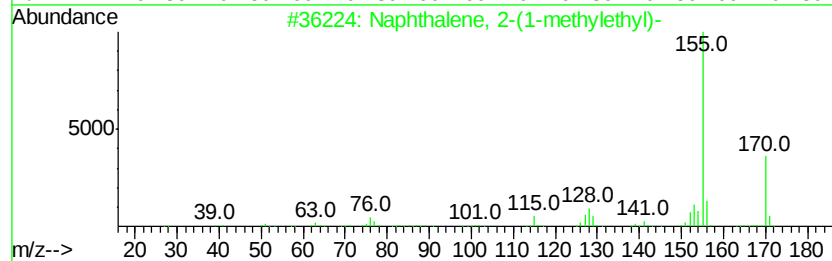
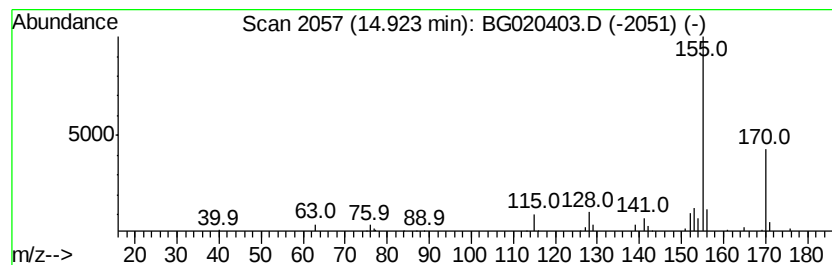
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Naphthalene, 2-(1-methyleth... Concentration Rank 36

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 14.92 | 5.16 ng/ul | 55393 | Acenaphthene-d10 | 14.72 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2-(1-methylethyl)-     | 170 | C13H14  | 002027-17-0 | 94   |
| 2    |    |   | Naphthalene, 2-(1-methylethyl)-     | 170 | C13H14  | 002027-17-0 | 91   |
| 3    |    |   | Naphthalene, 1,4,6-trimethyl-       | 170 | C13H14  | 002131-42-2 | 86   |
| 4    |    |   | 4a,8a-Methanonaphthalene, 9,9-di... | 170 | C13H14  | 038963-97-2 | 86   |
| 5    |    |   | 1'-Acetonaphthone                   | 170 | C12H10O | 000941-98-0 | 74   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

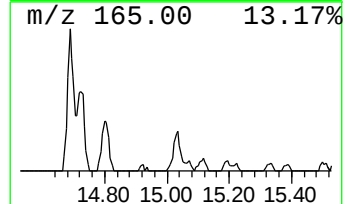
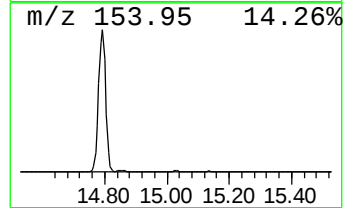
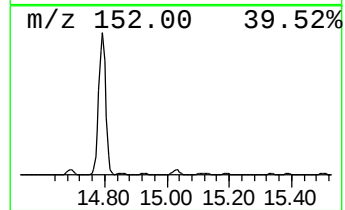
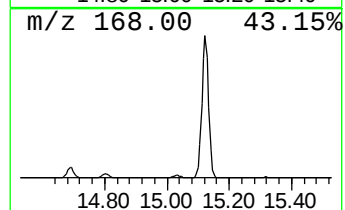
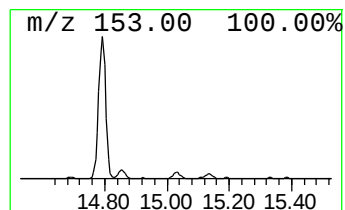
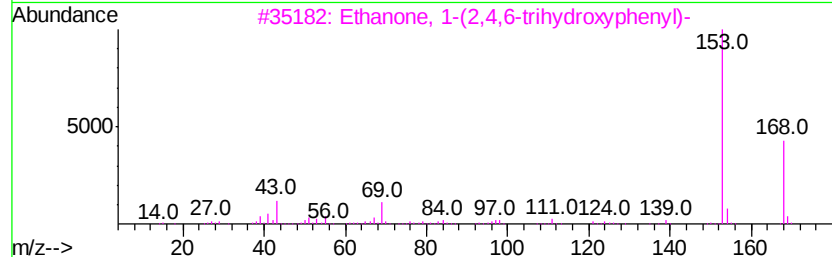
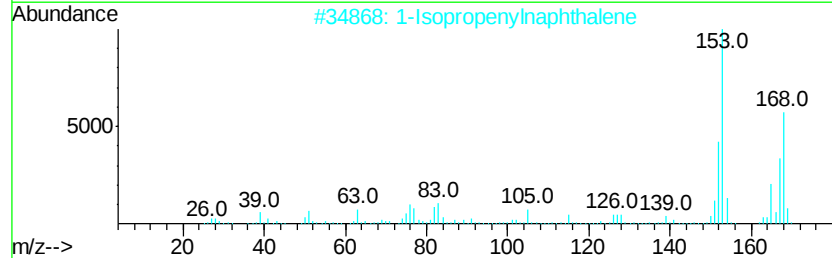
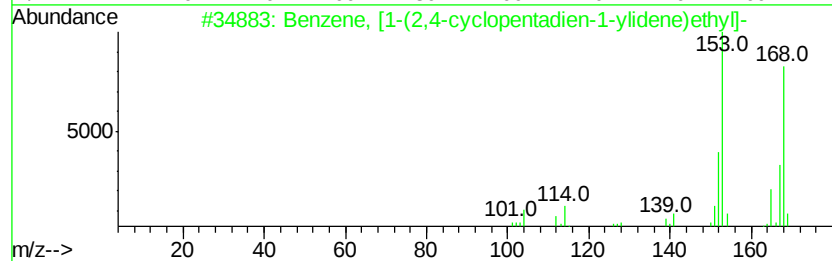
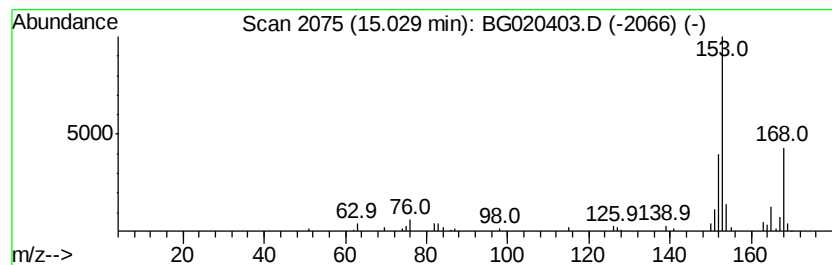
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Benzene, [1-(2,4-cyclopenta... Concentration Rank 26

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 15.03 | 7.30 ng/ul | 78426 | Acenaphthene-d10 | 14.72 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12   | 002320-32-3 | 72   |
| 2    |    | 1-Isopropenylnaphthalene            | 168 | C13H12   | 001855-47-6 | 53   |
| 3    |    | Ethanone, 1-(2,4,6-trihydroxyphe... | 168 | C8H8O4   | 000480-66-0 | 50   |
| 4    |    | Ethanone, 1-(2,4,6-trihydroxyphe... | 168 | C8H8O4   | 000480-66-0 | 50   |
| 5    |    | Benzene, 2-chloro-1-methyl-4-(1-... | 168 | C10H13Cl | 004395-79-3 | 50   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

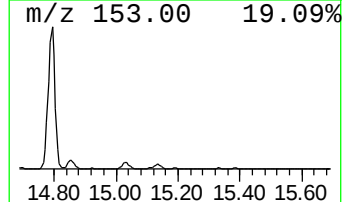
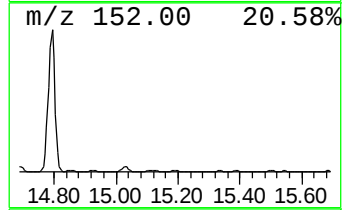
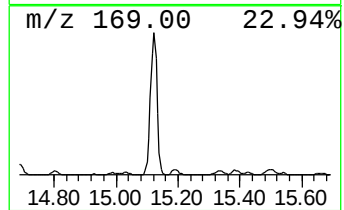
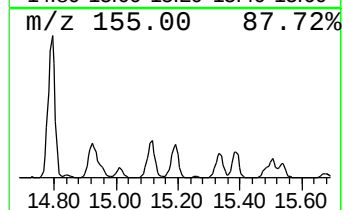
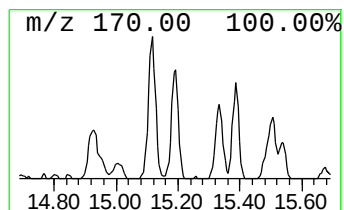
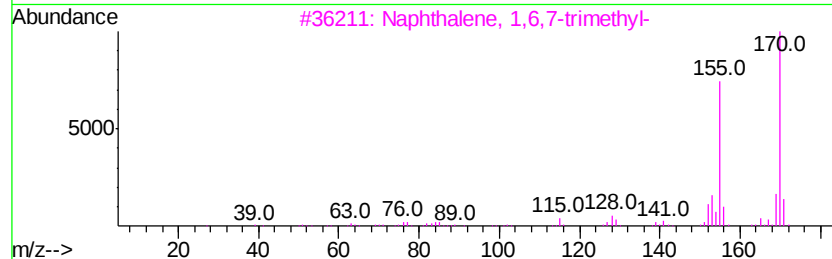
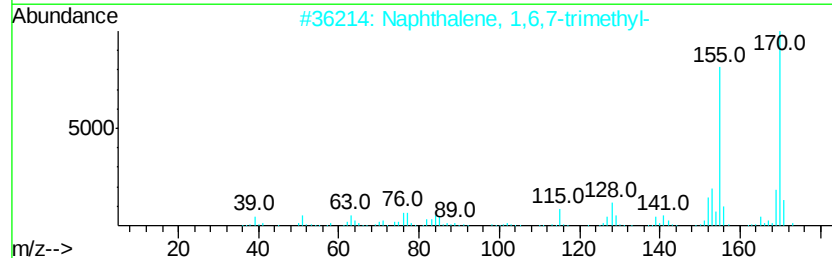
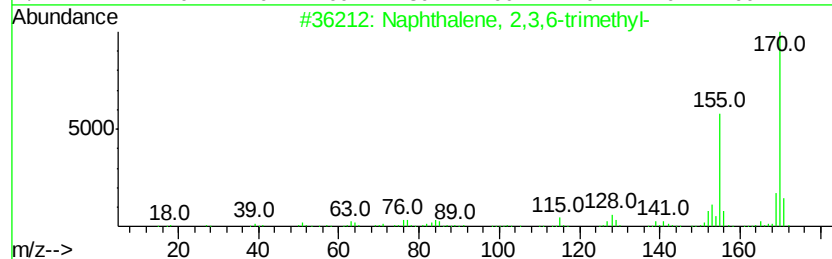
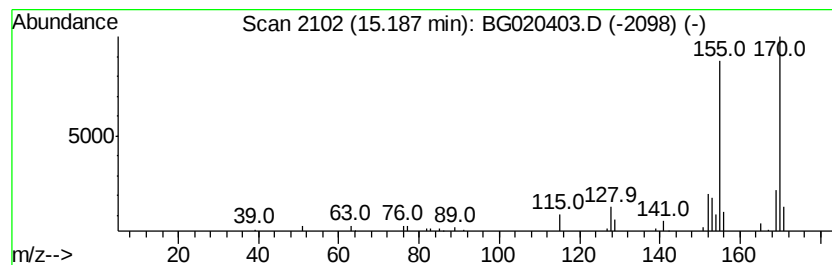
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Naphthalene, 2,3,6-trimethyl- Concentration Rank 37

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 15.19 | 4.85 ng/ul | 52128 | Acenaphthene-d10 | 14.72 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14  | 000829-26-5  | 95   |
| 2    |    |   | Naphthalene, 1,6,7-trimethyl-       | 170 | C13H14  | 002245-38-7  | 94   |
| 3    |    |   | Naphthalene, 1,6,7-trimethyl-       | 170 | C13H14  | 002245-38-7  | 93   |
| 4    |    |   | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14  | 000829-26-5  | 93   |
| 5    |    |   | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14  | 1000294-91-1 | 90   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

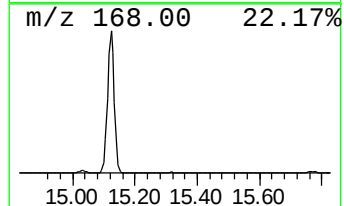
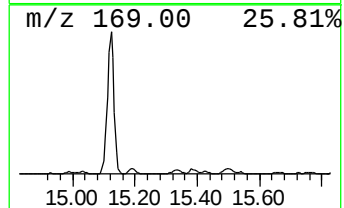
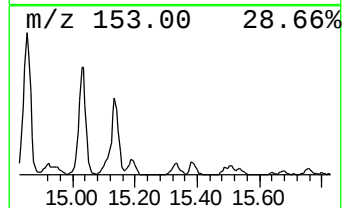
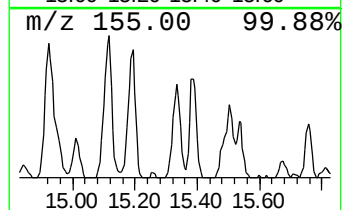
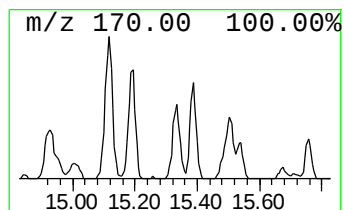
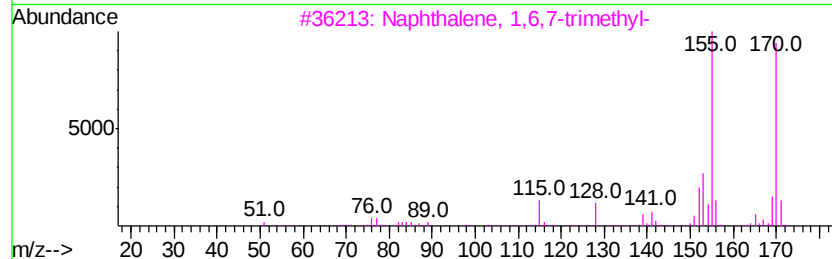
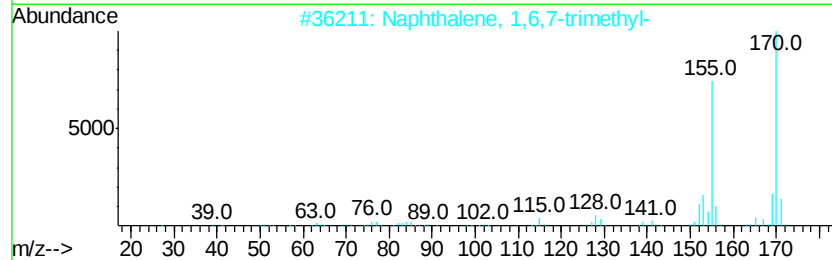
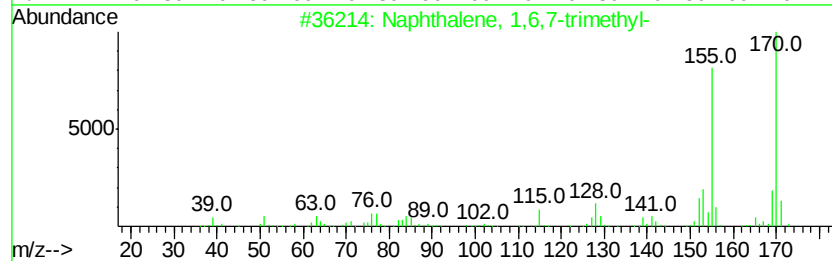
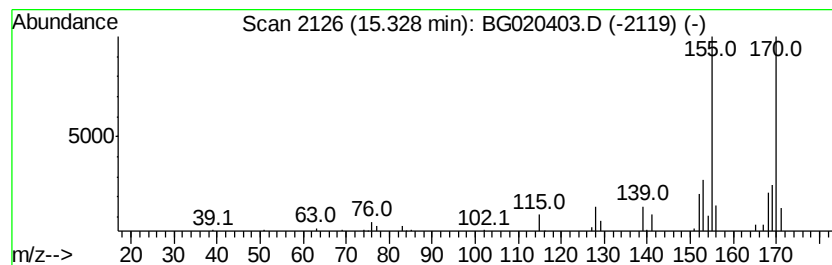
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Naphthalene, 1,6,7-trimethyl- Concentration Rank 39

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 15.33 | 4.17 ng/ul | 44758 | Acenaphthene-d10 | 14.72 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 95   |
| 2    |    |   | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 95   |
| 3    |    |   | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 94   |
| 4    |    |   | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 94   |
| 5    |    |   | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 93   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

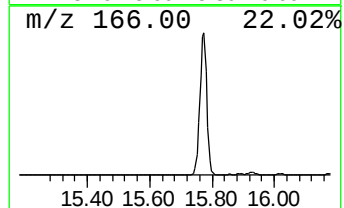
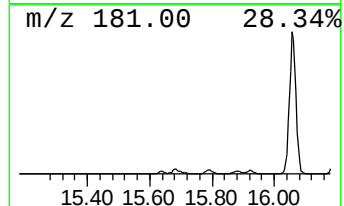
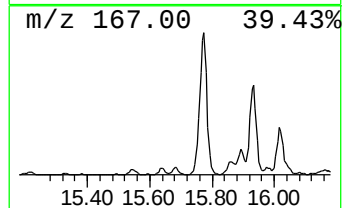
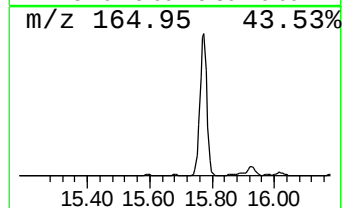
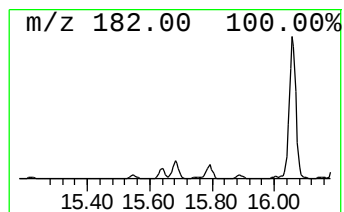
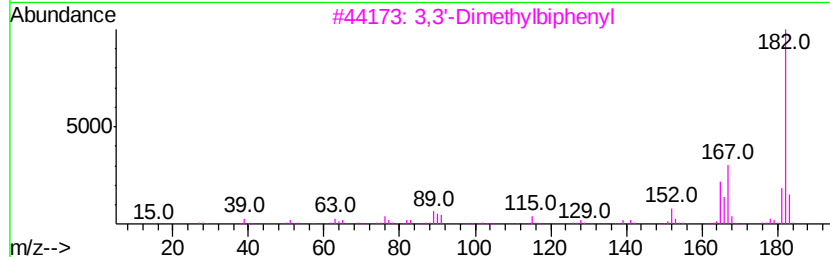
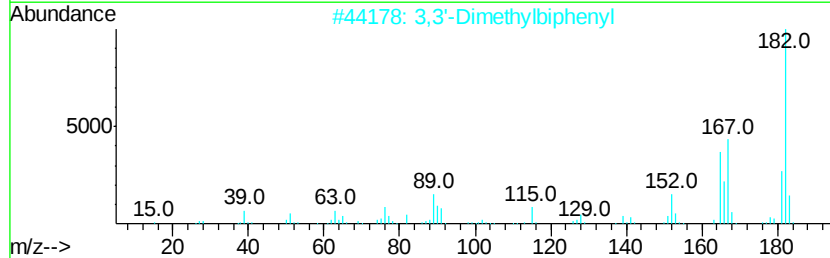
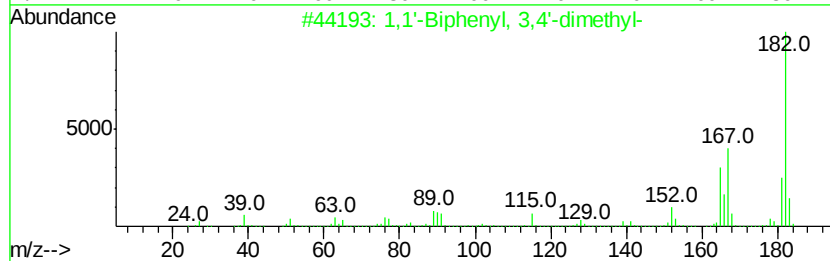
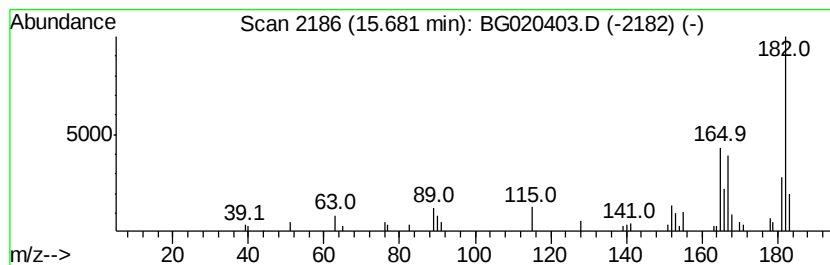
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 1,1'-Biphenyl, 3,4'-dimethyl- Concentration Rank 46

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 15.68 | 3.22 ng/ul | 34620 | Acenaphthene-d10 | 14.72 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1,1'-Biphenyl, 3,4'-dimethyl- | 182 | C14H14  | 007383-90-6 | 97   |
| 2    |    |   | 3,3'-Dimethylbiphenyl         | 182 | C14H14  | 000612-75-9 | 96   |
| 3    |    |   | 3,3'-Dimethylbiphenyl         | 182 | C14H14  | 000612-75-9 | 93   |
| 4    |    |   | 4,4'-Dimethylbiphenyl         | 182 | C14H14  | 000613-33-2 | 89   |
| 5    |    |   | 3,3'-Dimethylbiphenyl         | 182 | C14H14  | 000612-75-9 | 87   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

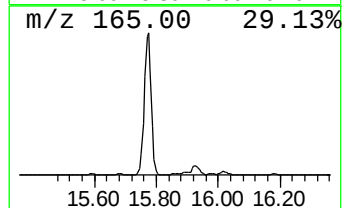
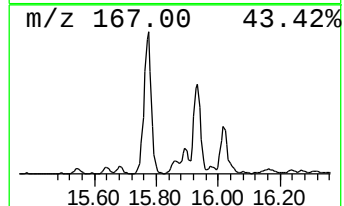
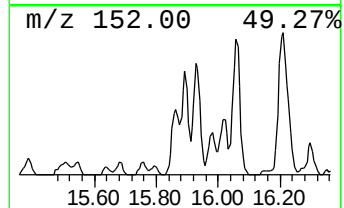
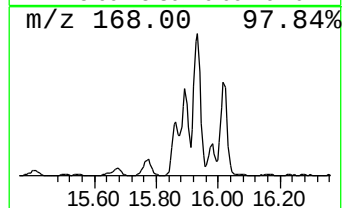
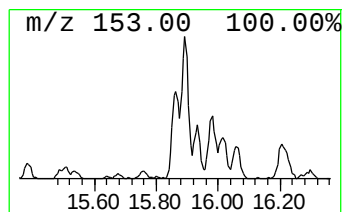
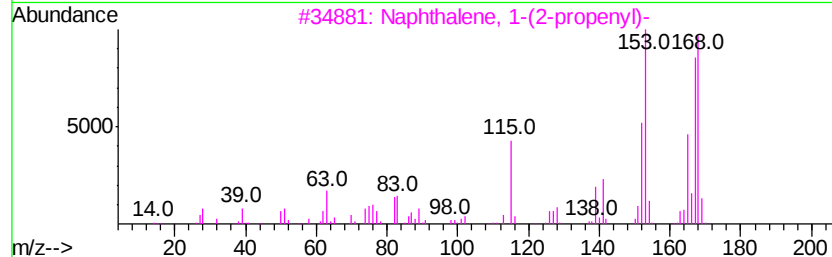
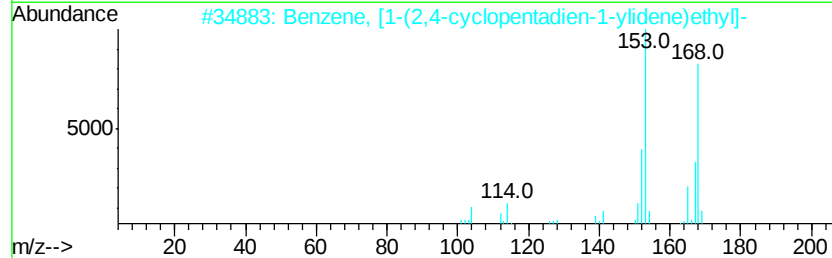
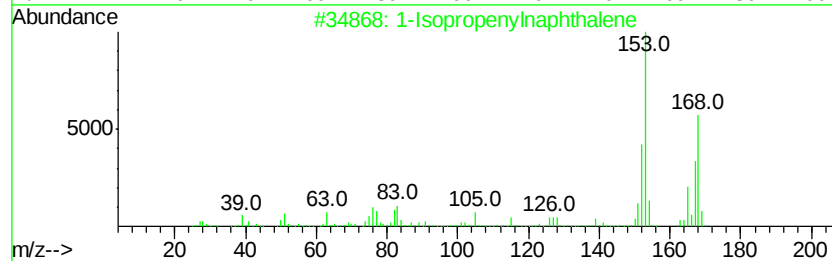
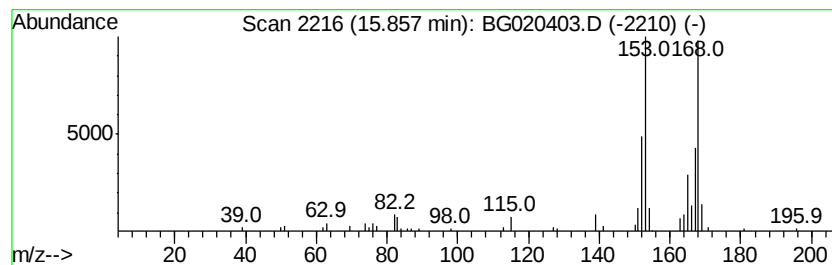
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 1-Isopropenylnaphthalene Concentration Rank 25

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 15.86 | 7.30 ng/ul | 78474 | Acenaphthene-d10 | 14.72 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Isopropenylnaphthalene            | 168 | C13H12  | 001855-47-6 | 95   |
| 2    |    |   | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12  | 002320-32-3 | 87   |
| 3    |    |   | Naphthalene, 1-(2-propenyl)-        | 168 | C13H12  | 002489-86-3 | 68   |
| 4    |    |   | Naphthalene, 1-(2-propenyl)-        | 168 | C13H12  | 002489-86-3 | 59   |
| 5    |    |   | Naphthalene, 2-(1-methylethenyl)-   | 168 | C13H12  | 003710-23-4 | 53   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

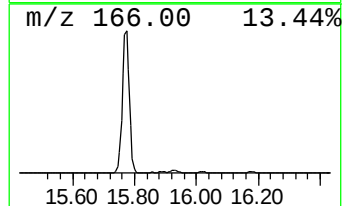
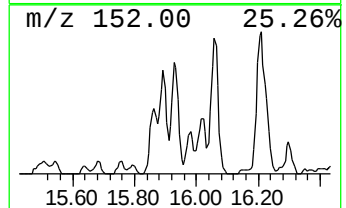
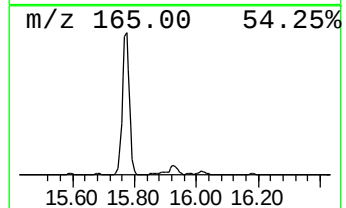
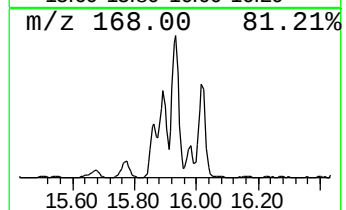
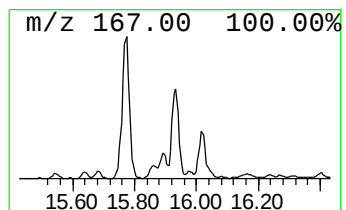
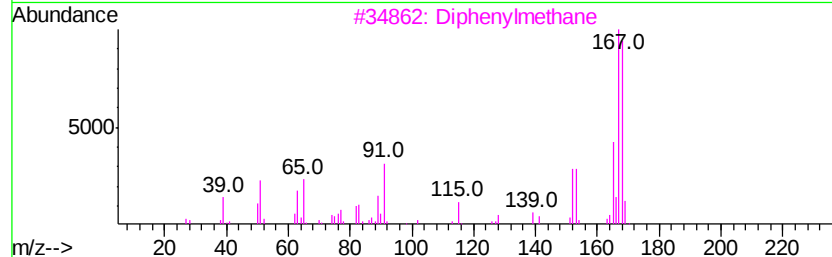
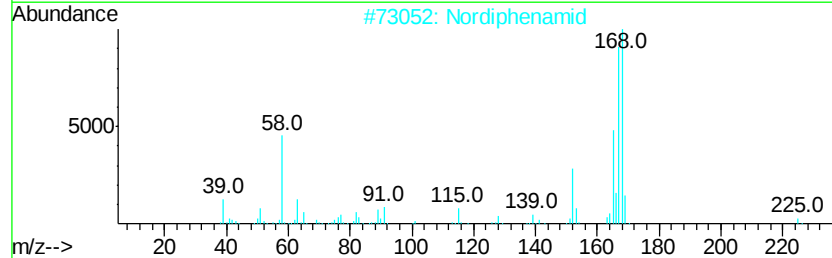
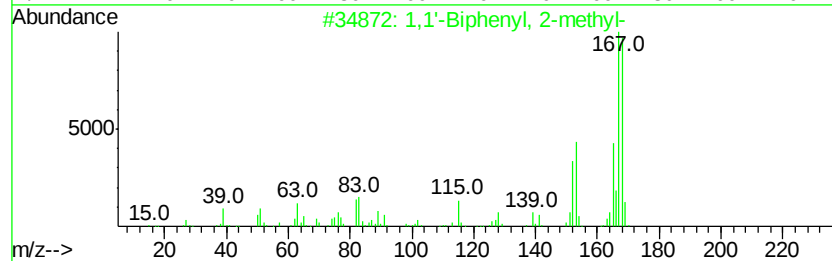
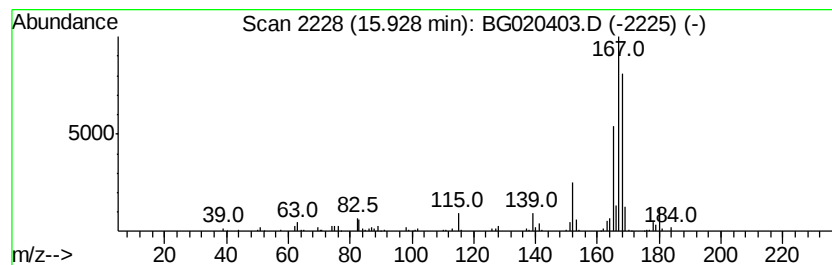
Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 21 1,1'-Biphenyl, 2-methyl- Concentration Rank 9

| R.T.    | EstConc     | Area                     | Relative to ISTD | R.T.           |
|---------|-------------|--------------------------|------------------|----------------|
| 15.93   | 20.34 ng/ul | 218473                   | Acenaphthene-d10 | 14.72          |
| Hit# of | 5           | Tentative ID             | MW MolForm       | CAS# Qual      |
| 1       |             | 1,1'-Biphenyl, 2-methyl- | 168 C13H12       | 000643-58-3 89 |
| 2       |             | Nordiphenamid            | 225 C15H15NO     | 000954-21-2 78 |
| 3       |             | Diphenylmethane          | 168 C13H12       | 000101-81-5 76 |
| 4       |             | 1,1'-Biphenyl, 4-methyl- | 168 C13H12       | 000644-08-6 60 |
| 5       |             | Fluorene, 1,4-dihydro-   | 168 C13H12       | 041593-21-9 59 |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

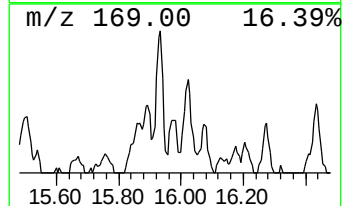
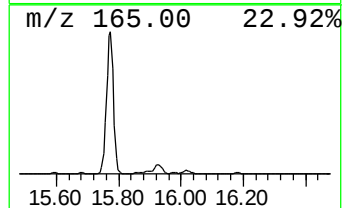
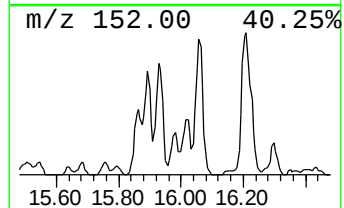
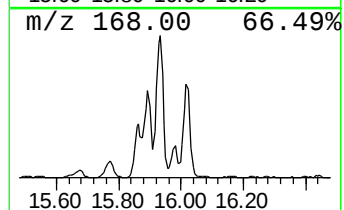
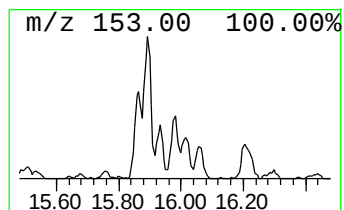
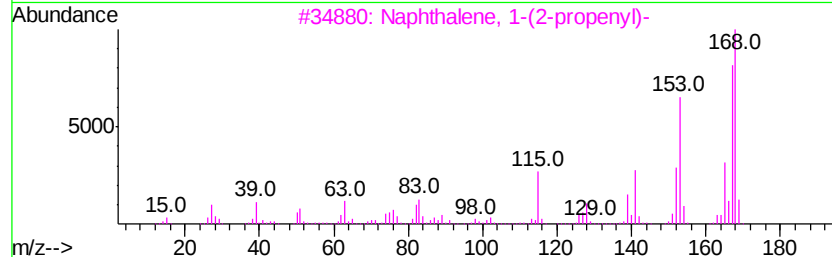
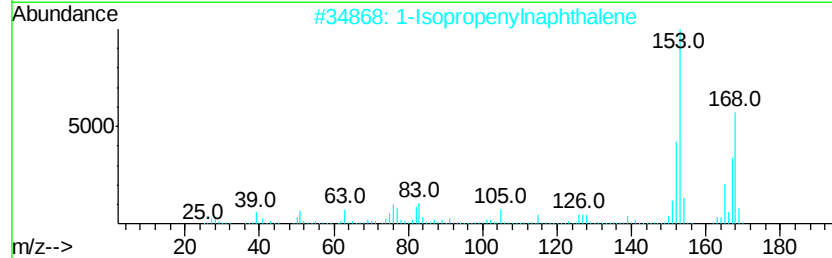
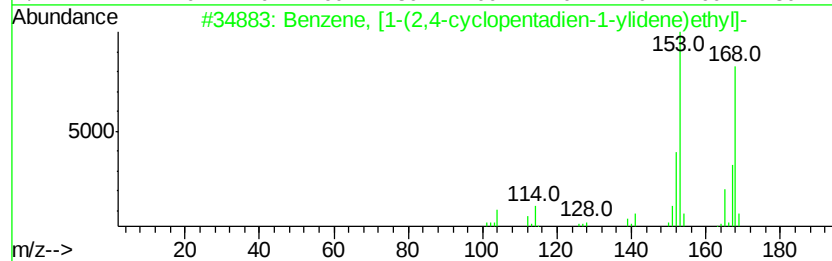
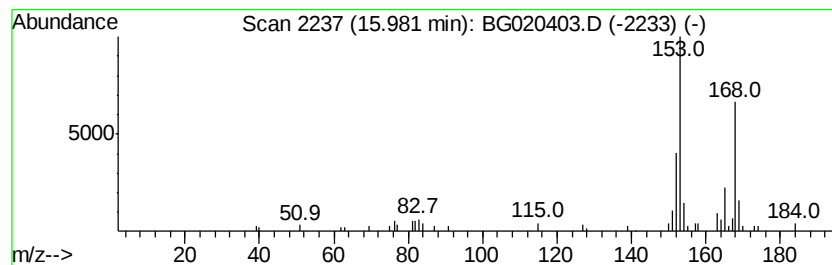
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 22 Naphthalene, 1-(2-propenyl)- Concentration Rank 35

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 15.98 | 5.27 ng/ul | 56599 | Acenaphthene-d10 | 14.72 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12  | 002320-32-3 | 72   |
| 2    |    | 1-Isopropenylnaphthalene            | 168 | C13H12  | 001855-47-6 | 72   |
| 3    |    | Naphthalene, 1-(2-propenyl)-        | 168 | C13H12  | 002489-86-3 | 64   |
| 4    |    | 5-Acetyl-2-methyl-3-thiophenecar... | 168 | C8H8O2S | 090345-55-4 | 47   |
| 5    |    | Ethanone, 1-(2,3,4-trihydroxyphe... | 168 | C8H8O4  | 000528-21-2 | 47   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

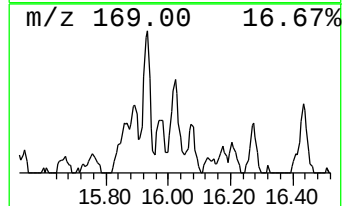
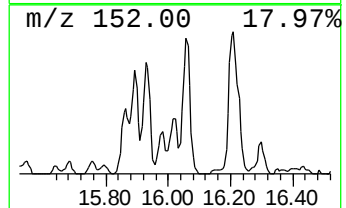
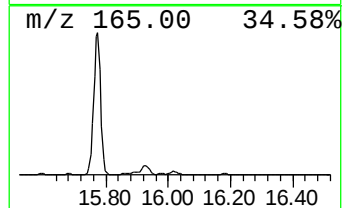
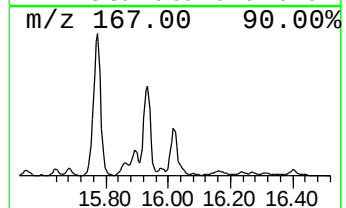
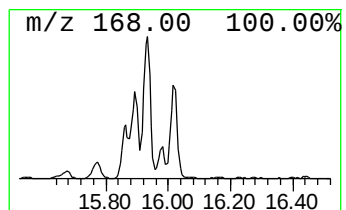
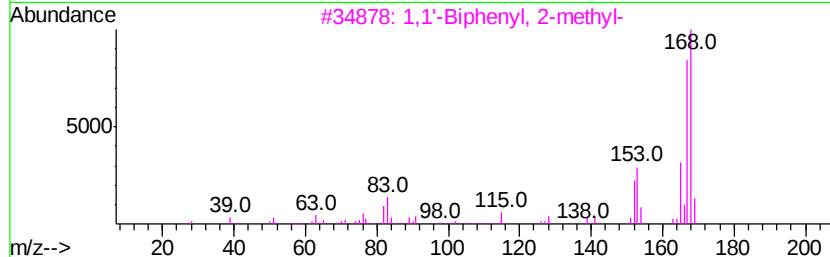
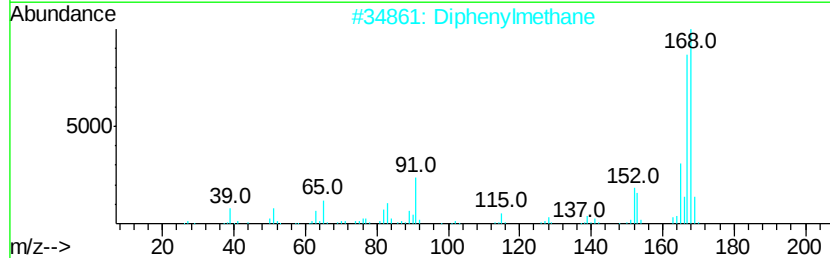
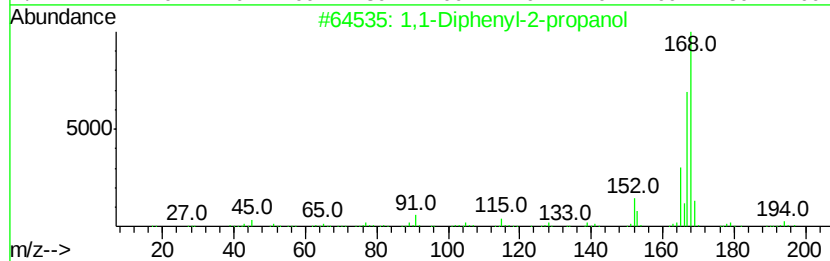
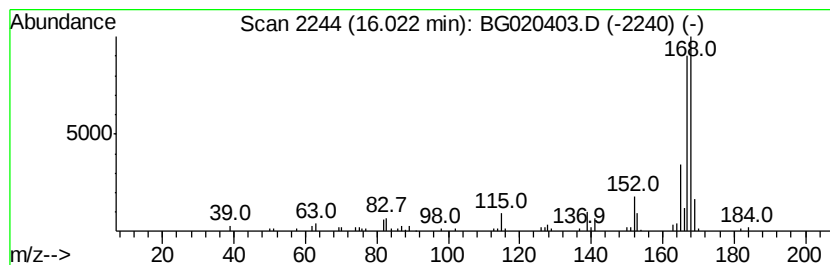
Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 23 1,1-Diphenyl-2-propanol Concentration Rank 19

| R.T.    | EstConc                  | Area         | Relative to ISTD | R.T.      |
|---------|--------------------------|--------------|------------------|-----------|
| 16.02   | 9.77 ng/ul               | 104936       | Acenaphthene-d10 | 14.72     |
| Hit# of | 5                        | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 1,1-Diphenyl-2-propanol  | 212 C15H16O  | 029338-49-6      | 83        |
| 2       | Diphenylmethane          | 168 C13H12   | 000101-81-5      | 81        |
| 3       | 1,1'-Biphenyl, 2-methyl- | 168 C13H12   | 000643-58-3      | 76        |
| 4       | 1,1'-Biphenyl, 2-methyl- | 168 C13H12   | 000643-58-3      | 76        |
| 5       | Diphenylmethane          | 168 C13H12   | 000101-81-5      | 74        |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

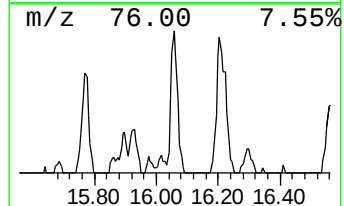
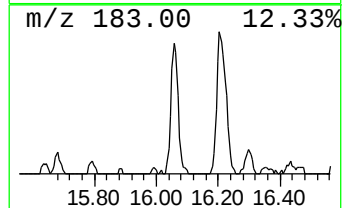
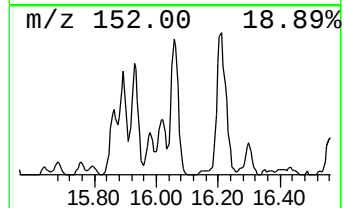
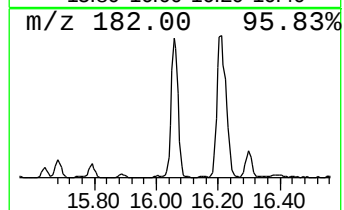
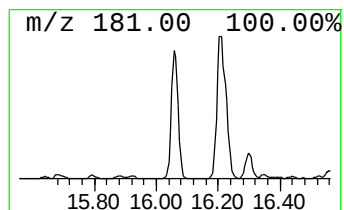
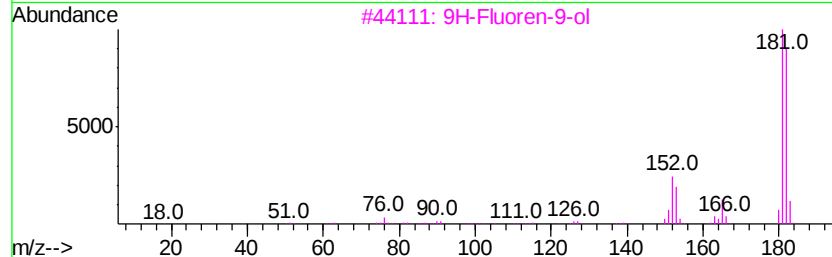
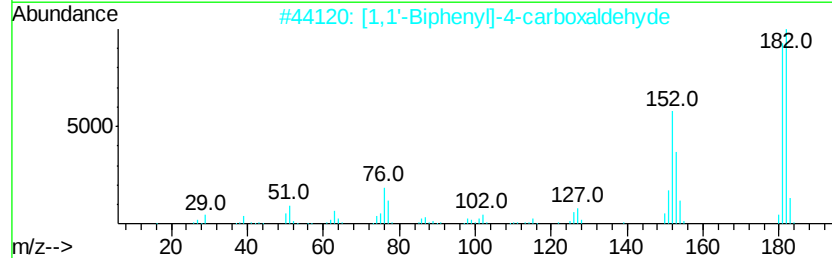
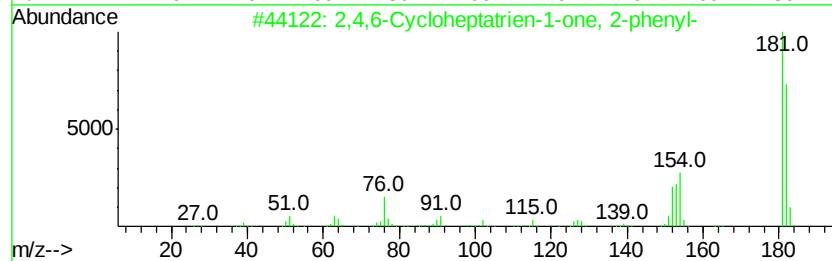
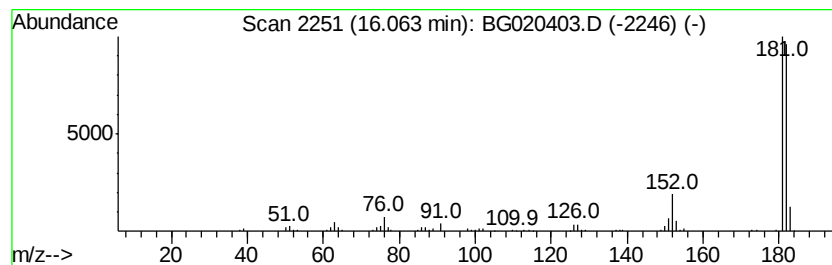
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 24 2,4,6-Cycloheptatrien-1-one... Concentration Rank 7

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 16.06 | 21.40 ng/ul | 229893 | Acenaphthene-d10 | 14.72 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 90   |
| 2    |    | [1,1'-Biphenyl]-4-carboxaldehyde    | 182 | C13H10O | 003218-36-8 | 78   |
| 3    |    | 9H-Fluoren-9-ol                     | 182 | C13H10O | 001689-64-1 | 78   |
| 4    |    | 3-(2-Naphthyl)acrylaldehyde         | 182 | C13H10O | 020884-05-3 | 64   |
| 5    |    | [1,1'-Biphenyl]-4-carboxaldehyde    | 182 | C13H10O | 003218-36-8 | 58   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

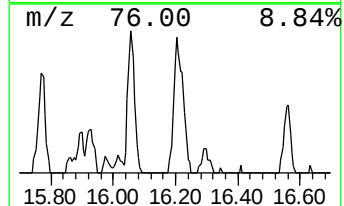
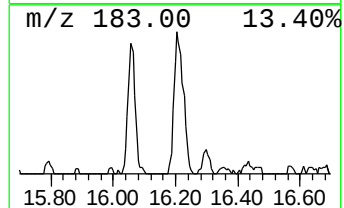
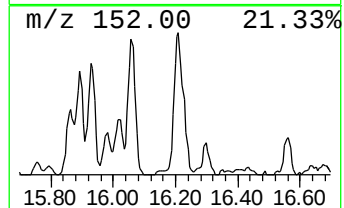
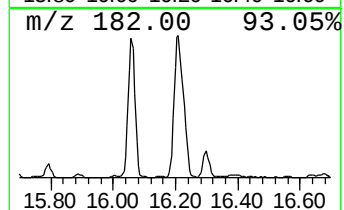
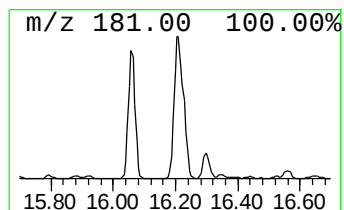
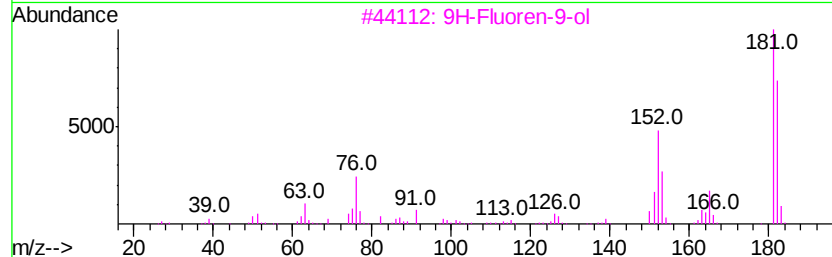
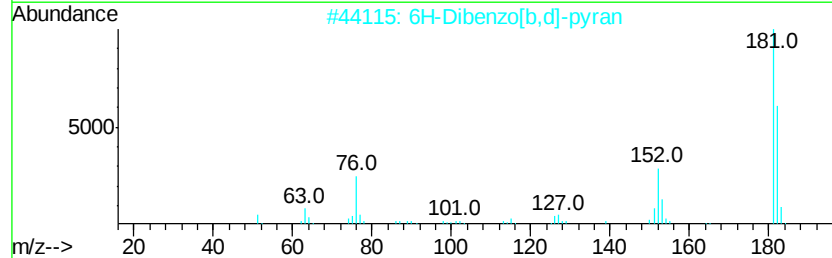
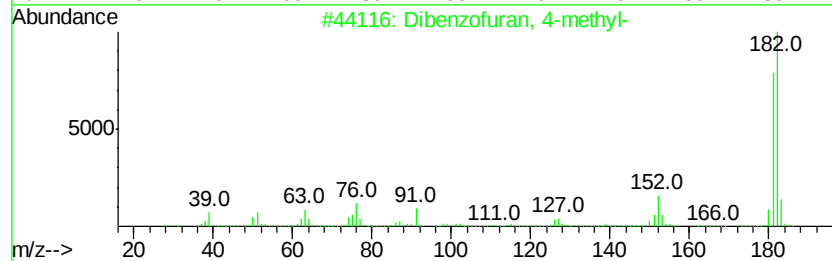
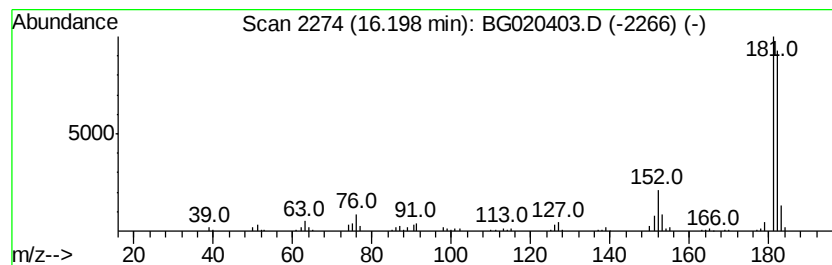
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 25 Dibenzofuran, 4-methyl- Concentration Rank 6

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 16.20 | 22.80 ng/ul | 338993 | Phenanthrene-d10 | 17.47 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Dibenzofuran, 4-methyl-             | 182 | C13H10O | 007320-53-8 | 91   |
| 2    |    | 6H-Dibenzo[b,d]-pyran               | 182 | C13H10O | 000229-95-8 | 91   |
| 3    |    | 9H-Fluoren-9-ol                     | 182 | C13H10O | 001689-64-1 | 78   |
| 4    |    | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 78   |
| 5    |    | [1,1'-Biphenyl]-4-carboxaldehyde    | 182 | C13H10O | 003218-36-8 | 74   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

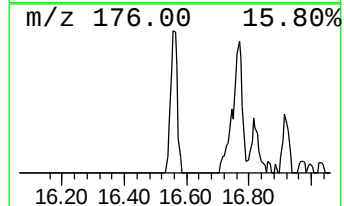
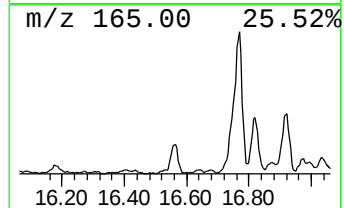
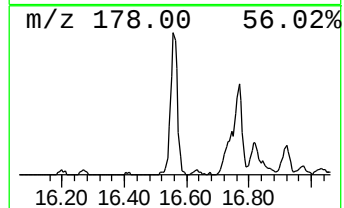
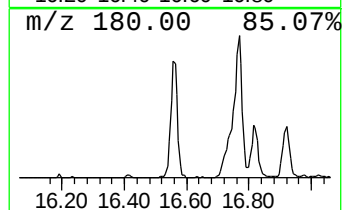
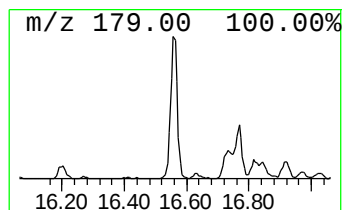
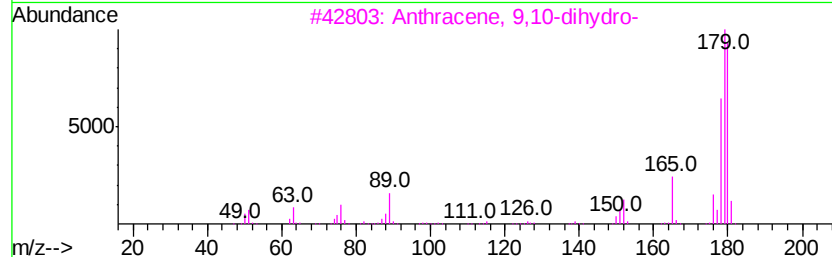
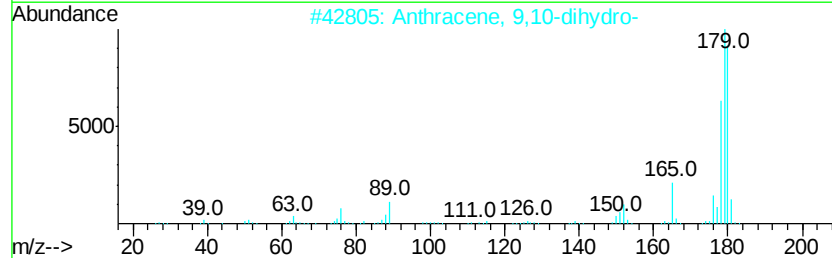
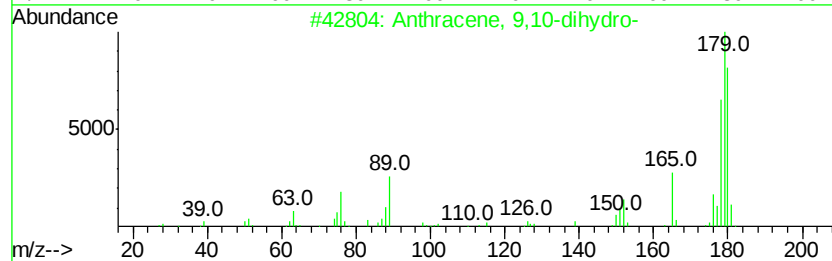
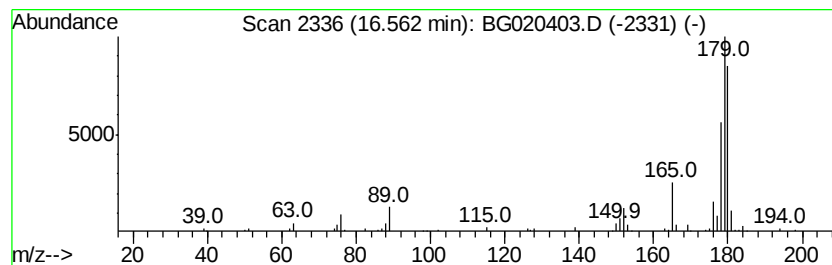
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 27 Anthracene, 9,10-dihydro- Concentration Rank 20

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.56 | 9.12 ng/ul | 135569 | Phenanthrene-d10 | 17.47 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 9,10-dihydro-  | 180 | C14H12  | 000613-31-0 | 96   |
| 2    |    |   | Anthracene, 9,10-dihydro-  | 180 | C14H12  | 000613-31-0 | 96   |
| 3    |    |   | Anthracene, 9,10-dihydro-  | 180 | C14H12  | 000613-31-0 | 95   |
| 4    |    |   | Anthracene, 9,10-dihydro-  | 180 | C14H12  | 000613-31-0 | 94   |
| 5    |    |   | Phenanthrene, 1,2-dihydro- | 180 | C14H12  | 056179-83-0 | 92   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

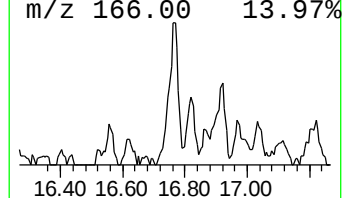
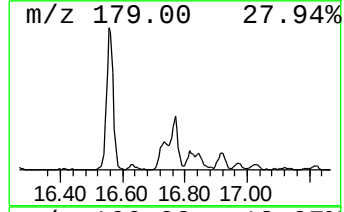
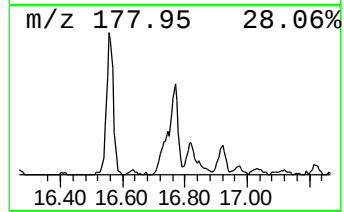
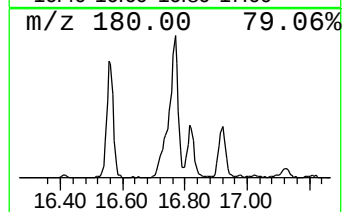
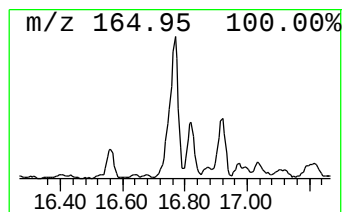
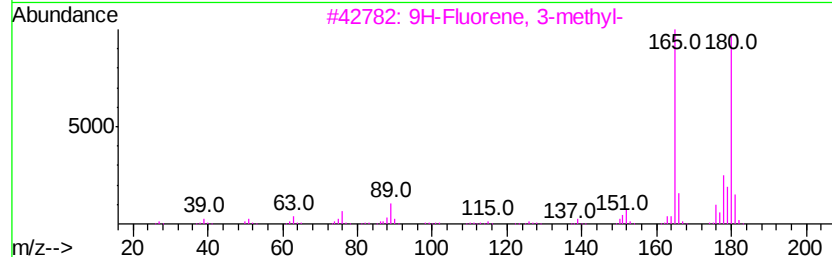
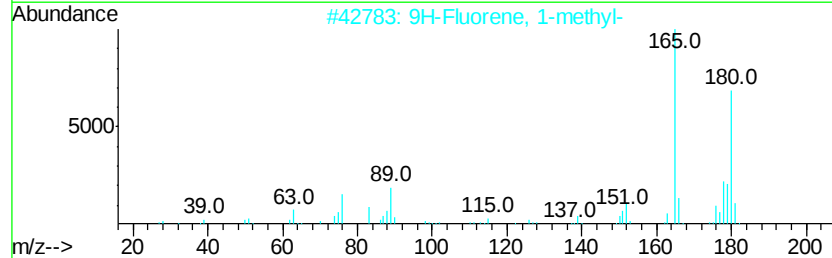
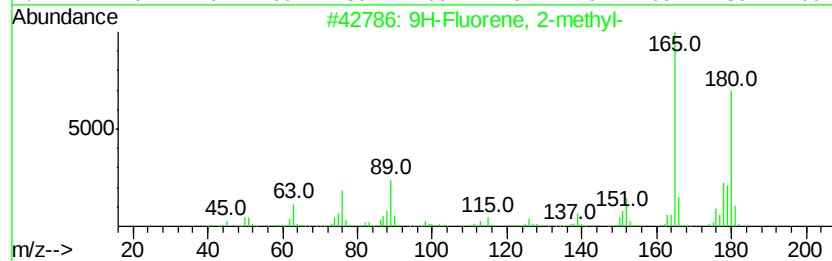
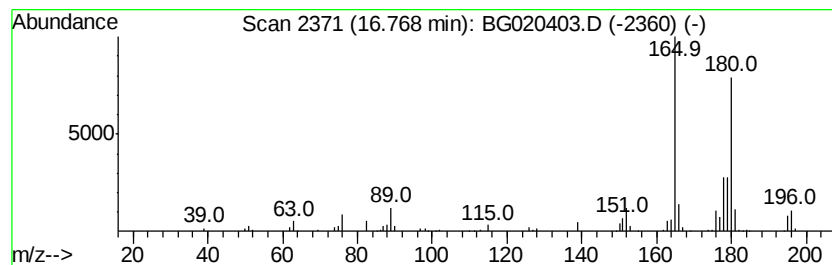
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 28 9H-Fluorene, 2-methyl- Concentration Rank 10

| R.T.  | EstConc     | Area   | Relative to ISTD | R.T.  |
|-------|-------------|--------|------------------|-------|
| 16.77 | 17.56 ng/ul | 261075 | Phenanthrene-d10 | 17.47 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | 9H-Fluorene, 2-methyl- | 180 | C14H12  | 001430-97-3 | 96   |
| 2    |    |   | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 96   |
| 3    |    |   | 9H-Fluorene, 3-methyl- | 180 | C14H12  | 002523-39-9 | 94   |
| 4    |    |   | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 91   |
| 5    |    |   | 9H-Fluorene, 2-methyl- | 180 | C14H12  | 001430-97-3 | 90   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

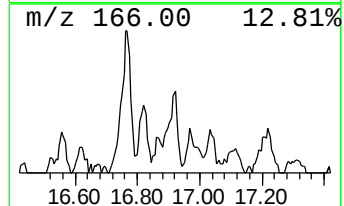
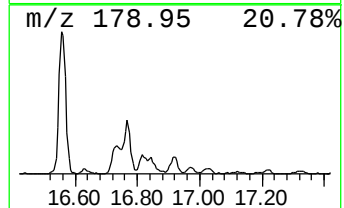
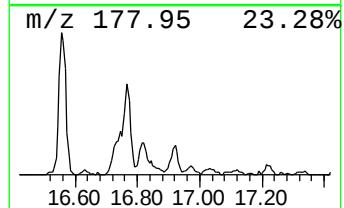
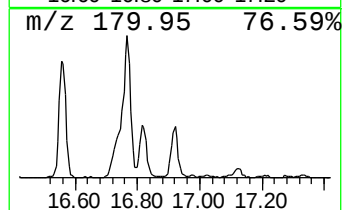
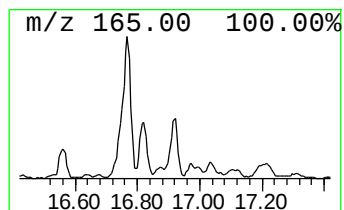
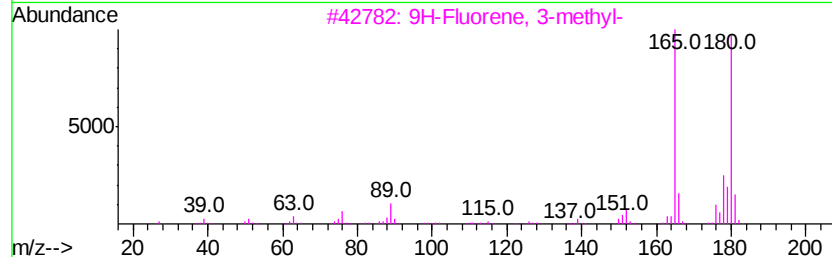
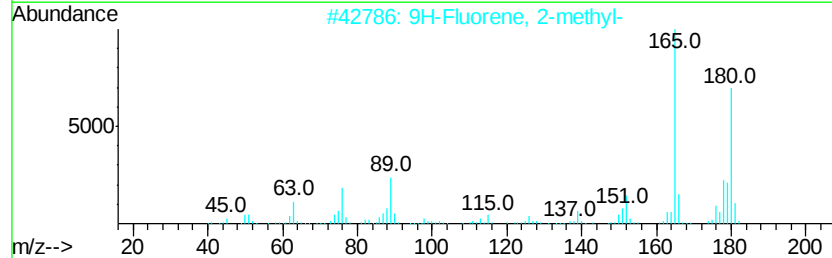
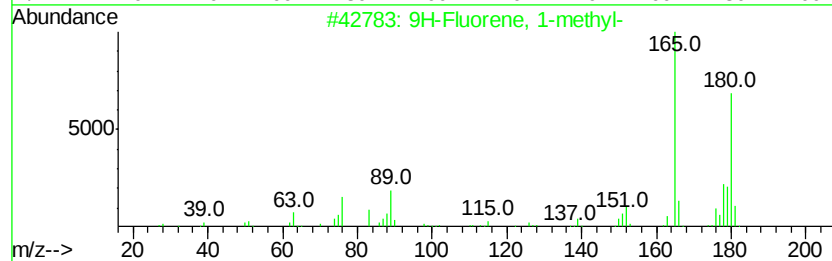
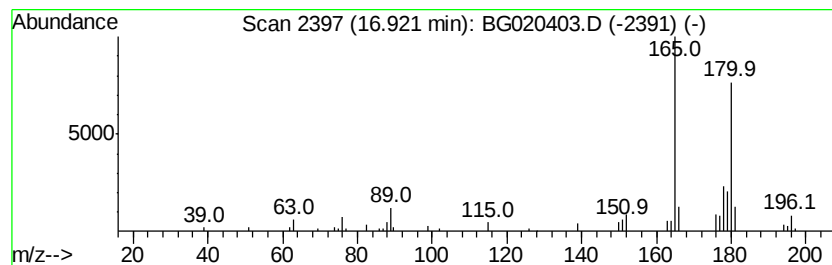
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 30 9H-Fluorene, 1-methyl- Concentration Rank 32

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 16.92 | 5.38 ng/ul | 79955 | Phenanthrene-d10 | 17.47 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 96   |
| 2    |    |   | 9H-Fluorene, 2-methyl- | 180 | C14H12  | 001430-97-3 | 96   |
| 3    |    |   | 9H-Fluorene, 3-methyl- | 180 | C14H12  | 002523-39-9 | 95   |
| 4    |    |   | 9H-Fluorene, 2-methyl- | 180 | C14H12  | 001430-97-3 | 93   |
| 5    |    |   | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 91   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG122115\  
Data File : BG020403.D  
Acq On : 22 Dec 2015 8:07  
Operator : UM/SJ  
Sample : G4848-08DL 30X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleID :  
D9N54DL

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

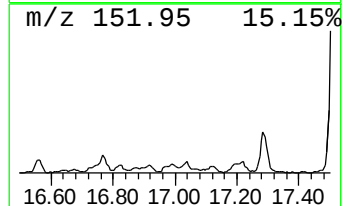
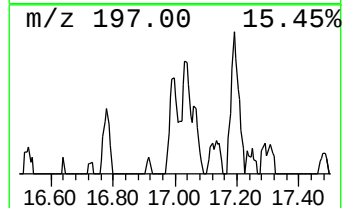
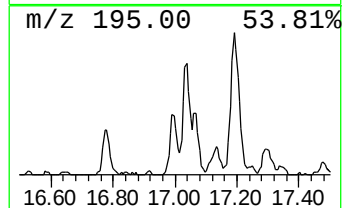
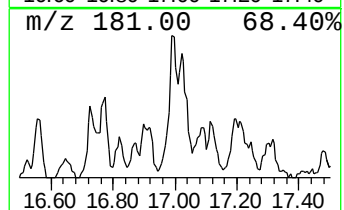
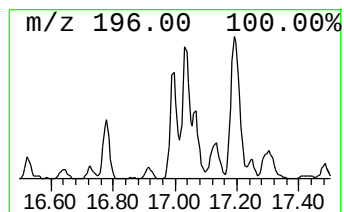
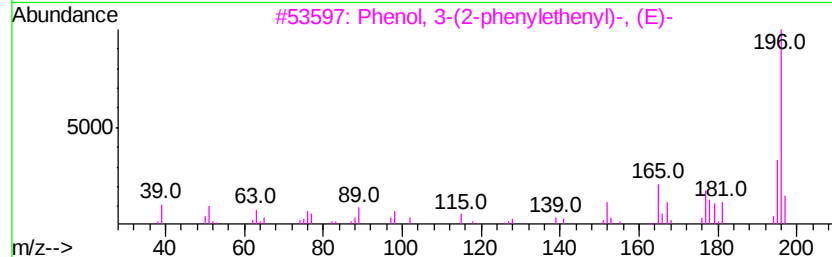
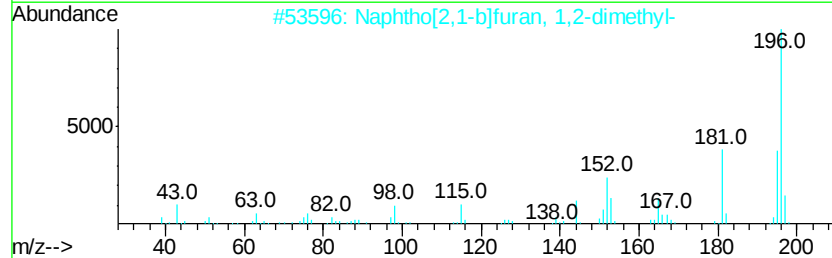
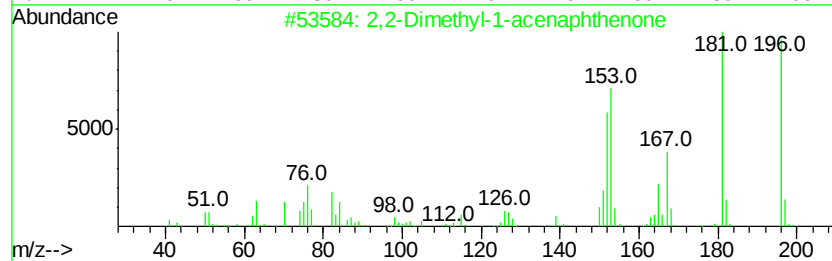
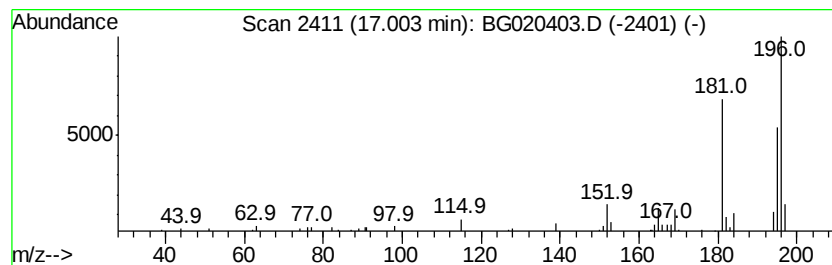
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 31 2,2-Dimethyl-1-acenaphthenone Concentration Rank 29

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 17.00 | 6.35 ng/ul | 94442 | Phenanthrene-d10 | 17.47 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2,2-Dimethyl-1-acenaphthenone       | 196 | C14H12O  | 018086-43-6 | 64   |
| 2    |    | Naphtho[2,1-b]furan, 1,2-dimethyl-  | 196 | C14H12O  | 129812-23-3 | 64   |
| 3    |    | Phenol, 3-(2-phenylethenyl)-, (E)-  | 196 | C14H12O  | 017861-18-6 | 58   |
| 4    |    | Benzaldehyde, 3,4,5-trimethoxy-     | 196 | C10H12O4 | 000086-81-7 | 58   |
| 5    |    | Benzene, 1-methyl-3-[(4-methylph... | 196 | C15H16   | 021895-16-9 | 53   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG122115\  
 Data File : BG020403.D  
 Acq On : 22 Dec 2015 8:07  
 Operator : UM/SJ  
 Sample : G4848-08DL 30X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N54DL

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.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                | 8.47  | 6.5     | ng/ul | 31051    | 1                     | 8.09  | 96239  | 20.0 |
| Indene                | 8.63  | 15.7    | ng/ul | 75470    | 1                     | 8.09  | 96239  | 20.0 |
| Benzene, 1-methyl...  | 10.30 | 4.4     | ng/ul | 32672    | 2                     | 10.91 | 147058 | 20.0 |
| 2-Benzothiophene #    | 11.08 | 8.4     | ng/ul | 62062    | 2                     | 10.91 | 147058 | 20.0 |
| Naphthalene, 1-me...  | 12.78 | 71.6    | ng/ul | 526622   | 2                     | 10.91 | 147058 | 20.0 |
| Naphthalene, 1-et...  | 13.75 | 12.8    | ng/ul | 137717   | 3                     | 14.72 | 214863 | 20.0 |
| Naphthalene, 1,7-...  | 13.88 | 12.3    | ng/ul | 132013   | 3                     | 14.72 | 214863 | 20.0 |
| Naphthalene, 2,6-...  | 14.04 | 24.2    | ng/ul | 260275   | 3                     | 14.72 | 214863 | 20.0 |
| Naphthalene, 1,6-...  | 14.09 | 15.2    | ng/ul | 163741   | 3                     | 14.72 | 214863 | 20.0 |
| Naphthalene, 2,3-...  | 14.28 | 8.7     | ng/ul | 93409    | 3                     | 14.72 | 214863 | 20.0 |
| 2-Naphthalenecarb...  | 14.85 | 5.6     | ng/ul | 60397    | 3                     | 14.72 | 214863 | 20.0 |
| Naphthalene, 2-(1...  | 14.92 | 5.2     | ng/ul | 55393    | 3                     | 14.72 | 214863 | 20.0 |
| Benzene, [1-(2,4-...  | 15.03 | 7.3     | ng/ul | 78426    | 3                     | 14.72 | 214863 | 20.0 |
| Naphthalene, 2,3,...  | 15.19 | 4.8     | ng/ul | 52128    | 3                     | 14.72 | 214863 | 20.0 |
| Naphthalene, 1,6,...  | 15.33 | 4.2     | ng/ul | 44758    | 3                     | 14.72 | 214863 | 20.0 |
| 1,1'-Biphenyl, 3,...  | 15.68 | 3.2     | ng/ul | 34620    | 3                     | 14.72 | 214863 | 20.0 |
| 1-Isopropenyl naph... | 15.86 | 7.3     | ng/ul | 78474    | 3                     | 14.72 | 214863 | 20.0 |
| 1,1'-Biphenyl, 2-...  | 15.93 | 20.3    | ng/ul | 218473   | 3                     | 14.72 | 214863 | 20.0 |
| Naphthalene, 1-(2...  | 15.98 | 5.3     | ng/ul | 56599    | 3                     | 14.72 | 214863 | 20.0 |
| 1,1-Diphenyl-2-pr...  | 16.02 | 9.8     | ng/ul | 104936   | 3                     | 14.72 | 214863 | 20.0 |
| 2,4,6-Cycloheptat...  | 16.06 | 21.4    | ng/ul | 229893   | 3                     | 14.72 | 214863 | 20.0 |
| Dibenzofuran, 4-m...  | 16.20 | 22.8    | ng/ul | 338993   | 4                     | 17.47 | 297402 | 20.0 |
| Anthracene, 9,10-...  | 16.56 | 9.1     | ng/ul | 135569   | 4                     | 17.47 | 297402 | 20.0 |
| 9H-Fluorene, 2-me...  | 16.77 | 17.6    | ng/ul | 261075   | 4                     | 17.47 | 297402 | 20.0 |
| 9H-Fluorene, 1-me...  | 16.92 | 5.4     | ng/ul | 79955    | 4                     | 17.47 | 297402 | 20.0 |
| 2,2-Dimethyl-1-ac...  | 17.00 | 6.3     | ng/ul | 94442    | 4                     | 17.47 | 297402 | 20.0 |