

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
 Data File : BG016390.D  
 Acq On : 14 Apr 2015 10:05  
 Operator : TP/IZ  
 Sample : G1791-08  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LS-SD10C

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.772       | 8             | 14          | 19           | rBV      | 122232         | 261914        | 6.35%           | 0.723%        |
| 2         | 2.855       | 24            | 28          | 38           | rVB      | 136461         | 212091        | 5.14%           | 0.585%        |
| 3         | 4.794       | 351           | 358         | 366          | rBV      | 221211         | 319218        | 7.74%           | 0.881%        |
| 4         | 5.264       | 432           | 438         | 451          | rBV      | 1830540        | 2610077       | 63.27%          | 7.200%        |
| 5         | 6.862       | 702           | 710         | 723          | rBV      | 1860135        | 2886953       | 69.99%          | 7.964%        |
| 6         | 7.214       | 762           | 770         | 778          | rBV      | 1818884        | 2866018       | 69.48%          | 7.907%        |
| 7         | 7.590       | 826           | 834         | 839          | rBV3     | 21833          | 41320         | 1.00%           | 0.114%        |
| 8         | 7.673       | 842           | 848         | 856          | rVV      | 346737         | 532593        | 12.91%          | 1.469%        |
| 9         | 7.996       | 896           | 903         | 912          | rVB      | 1250511        | 1958293       | 47.47%          | 5.402%        |
| 10        | 8.830       | 1038          | 1045        | 1058         | rBV      | 1023885        | 1660149       | 40.25%          | 4.580%        |
| 11        | 10.458      | 1315          | 1322        | 1333         | rVB      | 480275         | 814183        | 19.74%          | 2.246%        |
| 12        | 11.780      | 1542          | 1547        | 1557         | rVB      | 121065         | 185530        | 4.50%           | 0.512%        |
| 13        | 12.855      | 1725          | 1730        | 1735         | rBV      | 28344          | 41449         | 1.00%           | 0.114%        |
| 14        | 12.937      | 1736          | 1744        | 1752         | rBV      | 2259187        | 3289125       | 79.74%          | 9.074%        |
| 15        | 13.213      | 1786          | 1791        | 1798         | rBV2     | 70918          | 120319        | 2.92%           | 0.332%        |
| 16        | 13.771      | 1882          | 1886        | 1896         | rVB      | 259251         | 428654        | 10.39%          | 1.183%        |
| 17        | 14.318      | 1968          | 1979        | 1991         | rBV2     | 696630         | 1111403       | 26.94%          | 3.066%        |
| 18        | 14.523      | 2008          | 2014        | 2017         | rBV2     | 27066          | 48909         | 1.19%           | 0.135%        |
| 19        | 14.588      | 2021          | 2025        | 2030         | rVB3     | 27863          | 49658         | 1.20%           | 0.137%        |
| 20        | 15.440      | 2166          | 2170        | 2176         | rVB      | 67722          | 78895         | 1.91%           | 0.218%        |
| 21        | 15.575      | 2188          | 2193        | 2199         | rVB2     | 61300          | 89005         | 2.16%           | 0.246%        |
| 22        | 15.675      | 2205          | 2210        | 2218         | rVB      | 679223         | 970080        | 23.52%          | 2.676%        |
| 23        | 15.804      | 2226          | 2232        | 2240         | rBV      | 1618327        | 2275448       | 55.16%          | 6.277%        |
| 24        | 15.886      | 2244          | 2246        | 2254         | rVB6     | 27633          | 57414         | 1.39%           | 0.158%        |
| 25        | 16.051      | 2267          | 2274        | 2280         | rBV      | 126367         | 201295        | 4.88%           | 0.555%        |
| 26        | 16.304      | 2313          | 2317        | 2321         | rVB      | 43270          | 59863         | 1.45%           | 0.165%        |
| 27        | 16.392      | 2325          | 2332        | 2337         | rBV      | 196362         | 327635        | 7.94%           | 0.904%        |
| 28        | 16.468      | 2343          | 2345        | 2352         | rVB      | 51945          | 63625         | 1.54%           | 0.176%        |
| 29        | 16.874      | 2409          | 2414        | 2417         | rBV      | 64076          | 95364         | 2.31%           | 0.263%        |
| 30        | 16.909      | 2417          | 2420        | 2425         | rVB      | 86535          | 100632        | 2.44%           | 0.278%        |
| 31        | 17.015      | 2435          | 2438        | 2440         | rBV      | 56449          | 68501         | 1.66%           | 0.189%        |
| 32        | 17.056      | 2440          | 2445        | 2451         | rVB2     | 901874         | 1211681       | 29.37%          | 3.343%        |
| 33        | 17.320      | 2485          | 2490        | 2495         | rBV      | 194181         | 310150        | 7.52%           | 0.856%        |
| 34        | 17.485      | 2513          | 2518        | 2520         | rBV4     | 36181          | 62221         | 1.51%           | 0.172%        |

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Integration Parameters: rteint.p  
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 Max Peaks: 100  
 Peak Location: TOP

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 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 17.955 | 2594 | 2598 | 2608 | rBV  | 168731  | 233737  | 5.67%   | 0.645%  |
| 36 | 18.812 | 2741 | 2744 | 2746 | rBV  | 87510   | 105095  | 2.55%   | 0.290%  |
| 37 | 18.842 | 2746 | 2749 | 2750 | rVV  | 51236   | 50609   | 1.23%   | 0.140%  |
| 38 | 19.047 | 2780 | 2784 | 2789 | rBV4 | 32947   | 62673   | 1.52%   | 0.173%  |
| 39 | 19.136 | 2790 | 2799 | 2803 | rVB3 | 149982  | 231899  | 5.62%   | 0.640%  |
| 40 | 19.235 | 2812 | 2816 | 2819 | rBV2 | 60546   | 80707   | 1.96%   | 0.223%  |
| 41 | 19.382 | 2837 | 2841 | 2850 | rVB  | 401988  | 433569  | 10.51%  | 1.196%  |
| 42 | 19.465 | 2851 | 2855 | 2858 | rVV2 | 68453   | 83612   | 2.03%   | 0.231%  |
| 43 | 19.500 | 2858 | 2861 | 2867 | rVB  | 108278  | 126802  | 3.07%   | 0.350%  |
| 44 | 19.688 | 2887 | 2893 | 2899 | rBV  | 3234652 | 4124986 | 100.00% | 11.380% |
| 45 | 19.993 | 2942 | 2945 | 2950 | rVB  | 69810   | 87142   | 2.11%   | 0.240%  |
| 46 | 20.123 | 2964 | 2967 | 2972 | rVB2 | 45897   | 62488   | 1.51%   | 0.172%  |
| 47 | 20.322 | 2997 | 3001 | 3005 | rBV  | 131837  | 150048  | 3.64%   | 0.414%  |
| 48 | 20.428 | 3015 | 3019 | 3023 | rBV  | 299353  | 322683  | 7.82%   | 0.890%  |
| 49 | 20.487 | 3026 | 3029 | 3033 | rVV  | 107703  | 137306  | 3.33%   | 0.379%  |
| 50 | 20.522 | 3033 | 3035 | 3040 | rVB  | 53557   | 60448   | 1.47%   | 0.167%  |
| 51 | 20.945 | 3103 | 3107 | 3117 | rVB2 | 389076  | 532741  | 12.91%  | 1.470%  |
| 52 | 21.151 | 3138 | 3142 | 3146 | rBV  | 85531   | 97983   | 2.38%   | 0.270%  |
| 53 | 21.233 | 3151 | 3156 | 3165 | rVB  | 1066568 | 1324959 | 32.12%  | 3.655%  |
| 54 | 21.380 | 3177 | 3181 | 3187 | rVB  | 163592  | 187072  | 4.54%   | 0.516%  |
| 55 | 21.809 | 3251 | 3254 | 3262 | rBV  | 128692  | 167122  | 4.05%   | 0.461%  |
| 56 | 22.273 | 3329 | 3333 | 3340 | rVB  | 120947  | 157964  | 3.83%   | 0.436%  |
| 57 | 22.773 | 3414 | 3418 | 3423 | rBV  | 96286   | 136150  | 3.30%   | 0.376%  |
| 58 | 23.342 | 3510 | 3515 | 3522 | rBV3 | 65980   | 117827  | 2.86%   | 0.325%  |
| 59 | 23.466 | 3529 | 3536 | 3544 | rBV2 | 678553  | 1238769 | 30.03%  | 3.417%  |
| 60 | 23.989 | 3621 | 3625 | 3631 | rVB3 | 48187   | 89368   | 2.17%   | 0.247%  |
| 61 | 24.735 | 3749 | 3752 | 3759 | rVB5 | 34669   | 72333   | 1.75%   | 0.200%  |
| 62 | 25.722 | 3914 | 3920 | 3938 | rVB5 | 65349   | 212500  | 5.15%   | 0.586%  |
| 63 | 26.533 | 4052 | 4058 | 4071 | rVB5 | 51850   | 150311  | 3.64%   | 0.415%  |

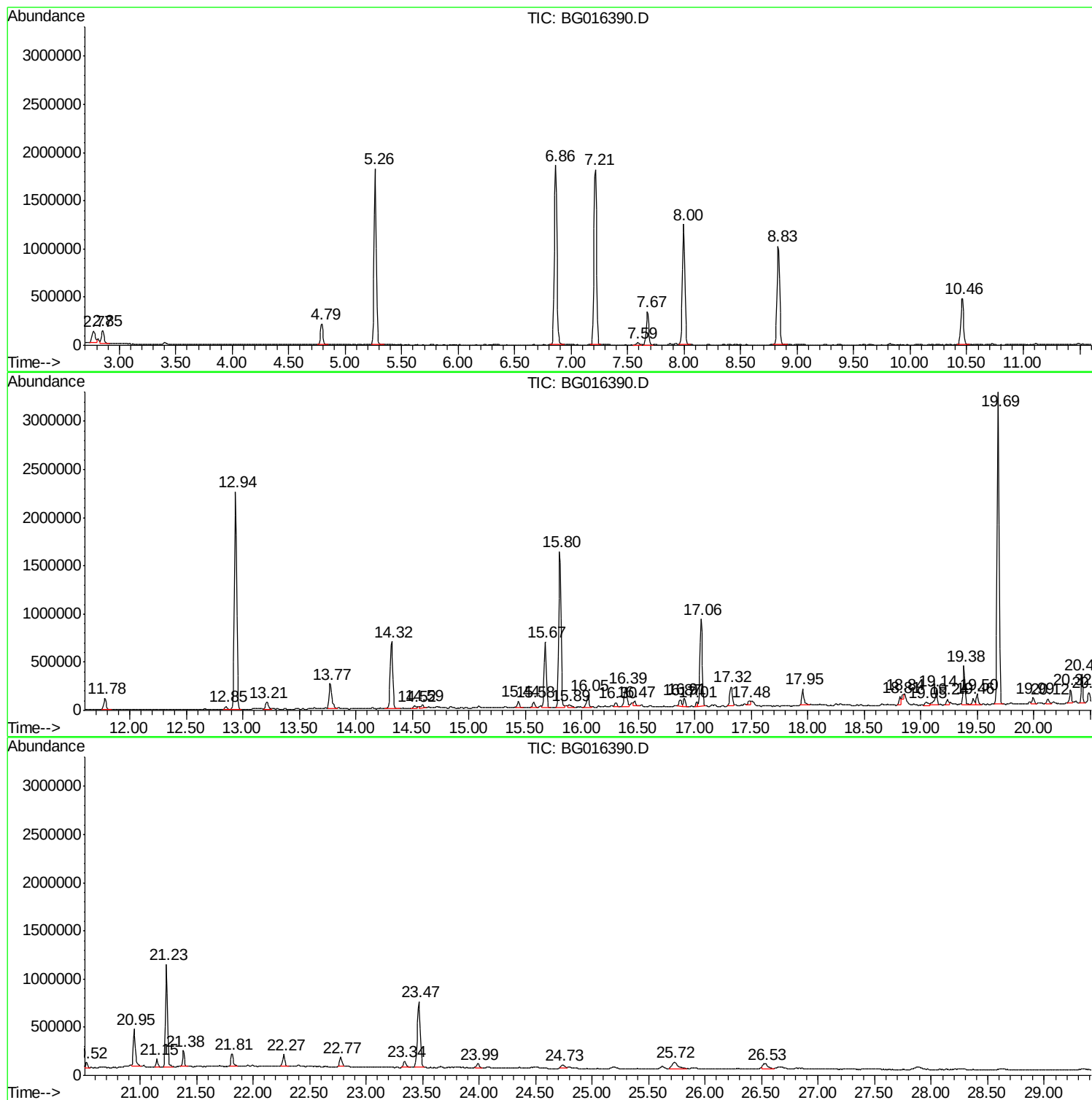
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Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
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Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

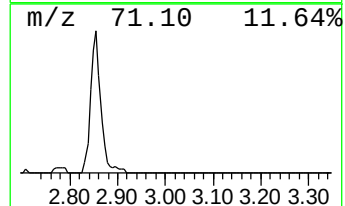
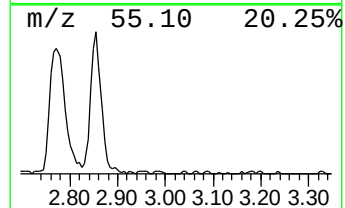
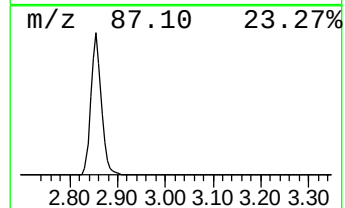
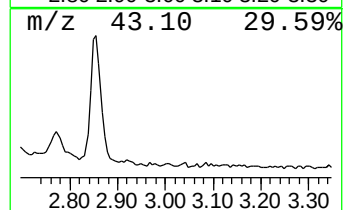
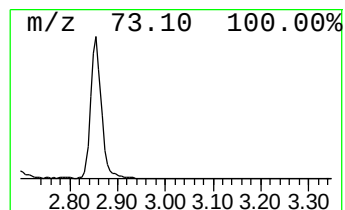
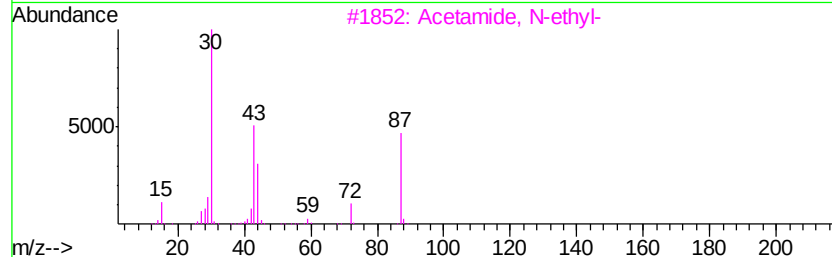
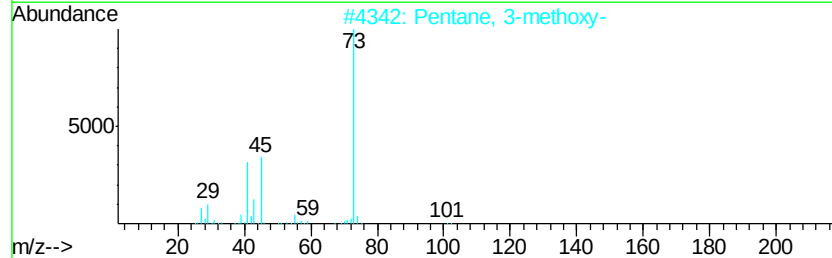
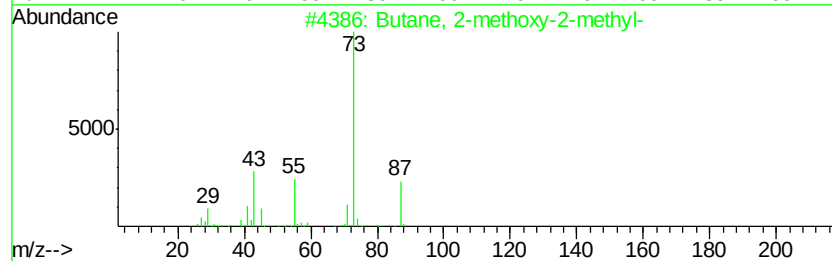
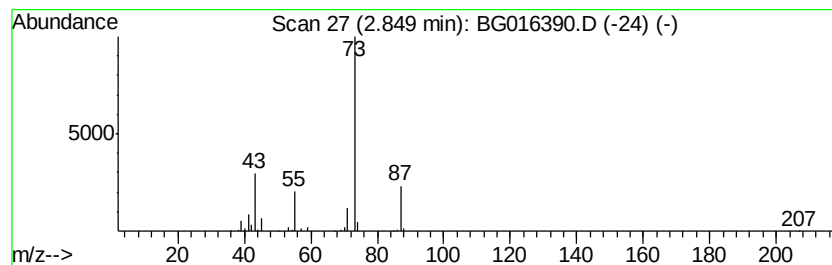
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 7

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.85 | 7.96 ng | 212091 | 1,4-Dichlorobenzene-d4 | 7.67 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 2    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 17   |
| 3    |    | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 9    |
| 4    |    | N-Ethylformamide            | 73  | C3H7NO  | 000627-45-2 | 9    |
| 5    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 9    |



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Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

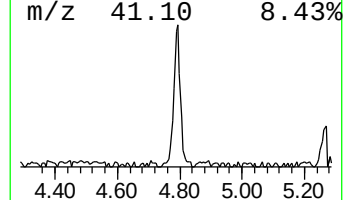
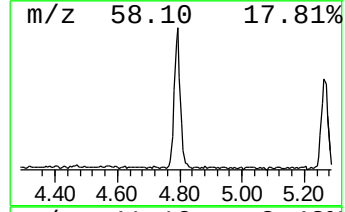
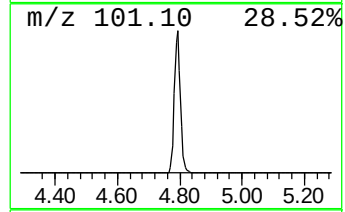
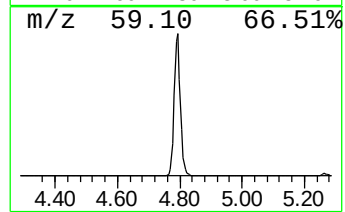
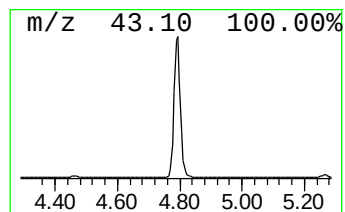
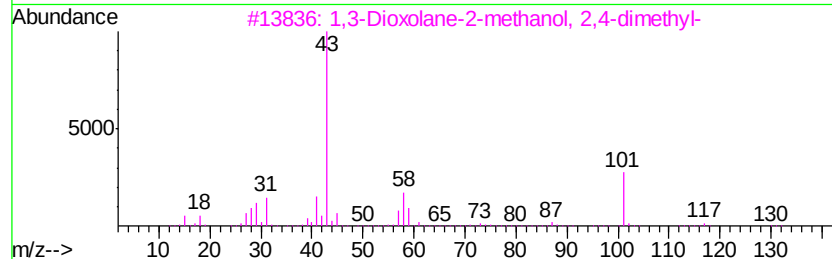
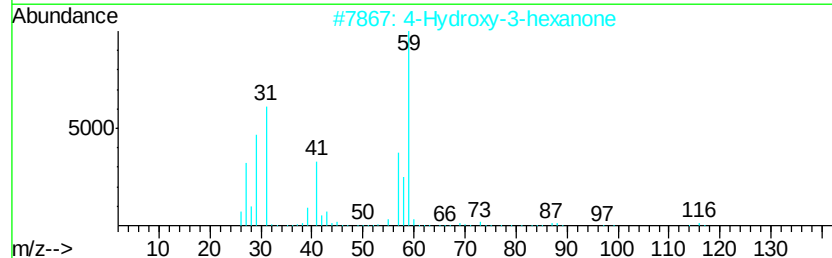
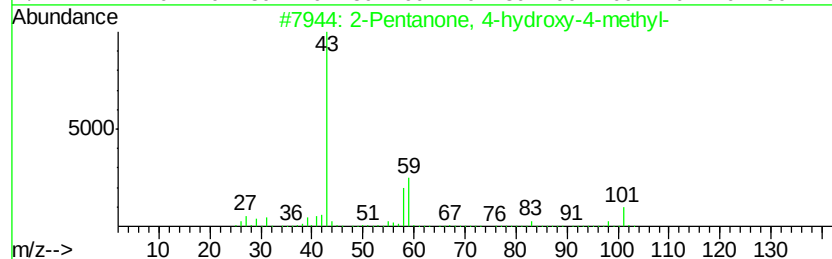
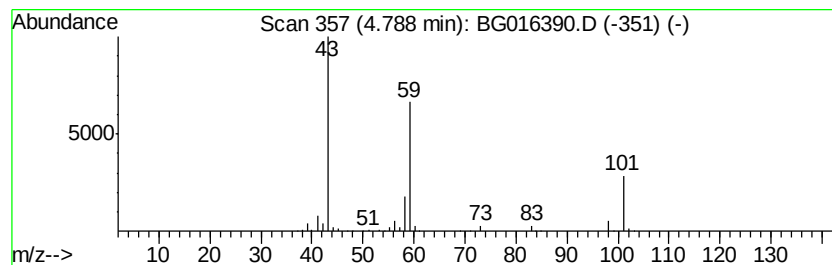
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.79 | 11.99 ng | 319218 | 1,4-Dichlorobenzene-d4 | 7.67 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 50   |
| 2    |    | 4-Hydroxy-3-hexanone                | 116 | C6H12O2  | 004984-85-4 | 25   |
| 3    |    | 1,3-Dioxolane-2-methanol, 2,4-di... | 132 | C6H12O3  | 053951-43-2 | 25   |
| 4    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 12   |
| 5    |    | Morpholine, 4-methyl-               | 101 | C5H11NO  | 000109-02-4 | 9    |



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LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

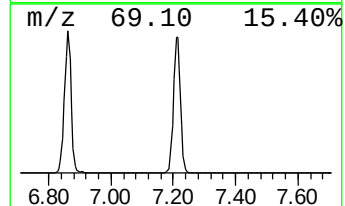
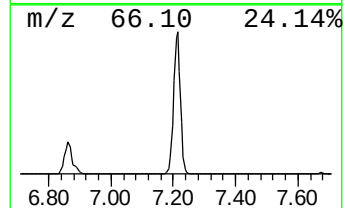
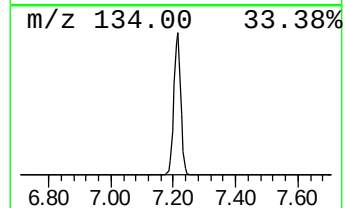
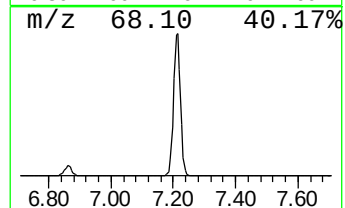
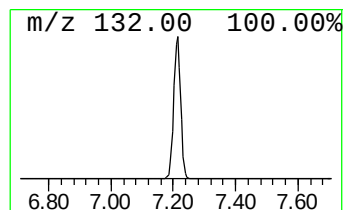
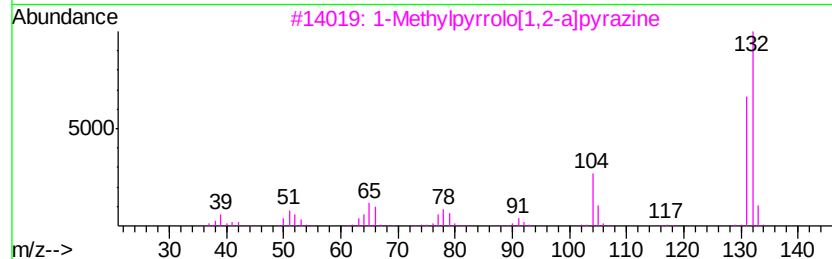
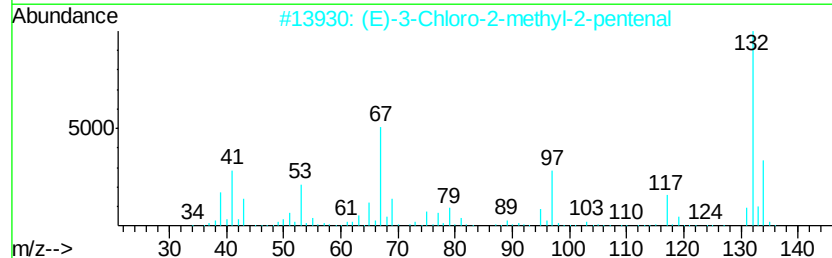
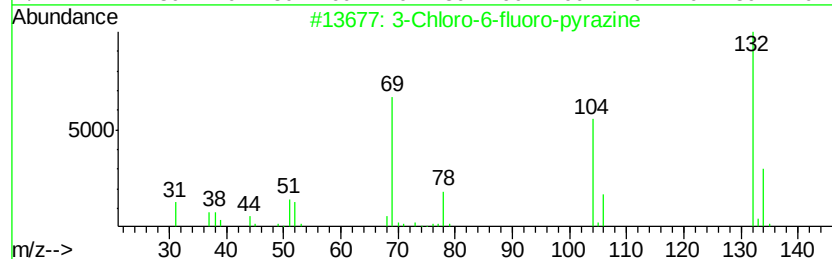
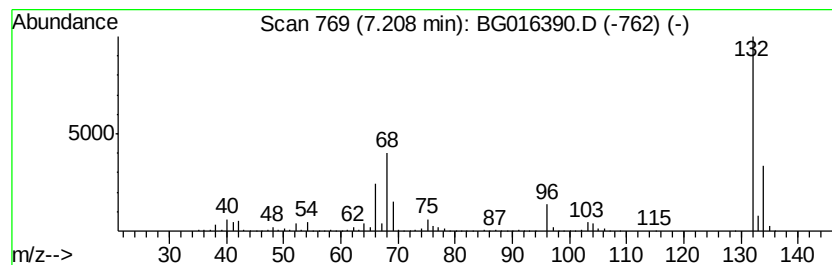
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 unknown7.21 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 7.21 | 107.63 ng | 2866020 | 1,4-Dichlorobenzene-d4 | 7.67 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 12   |
| 3    |    | 1-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-59-9  | 9    |
| 4    |    | 4-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-60-2  | 9    |
| 5    |    | 4-Chloro-2-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-00-5  | 9    |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

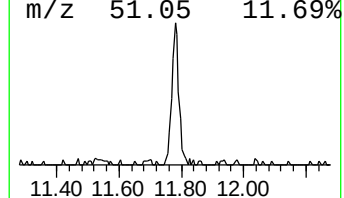
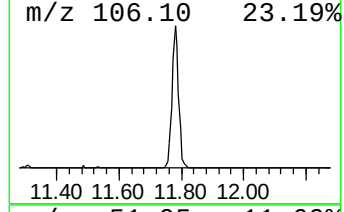
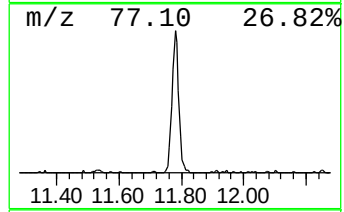
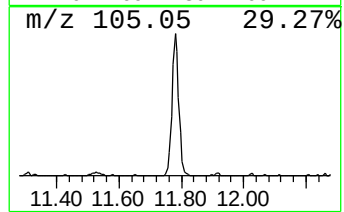
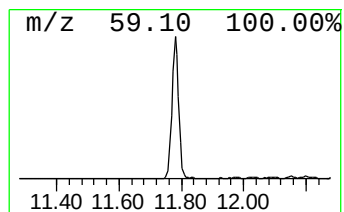
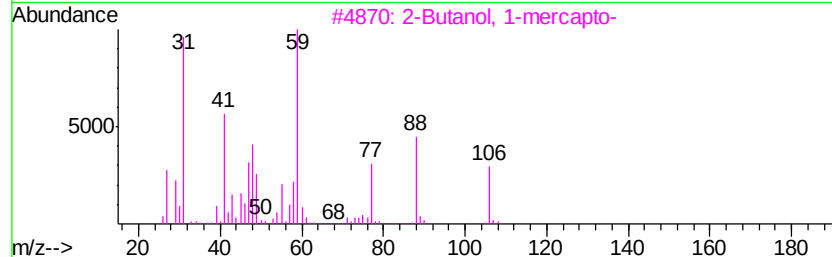
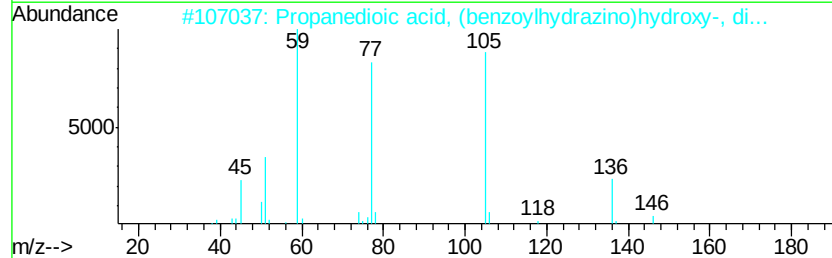
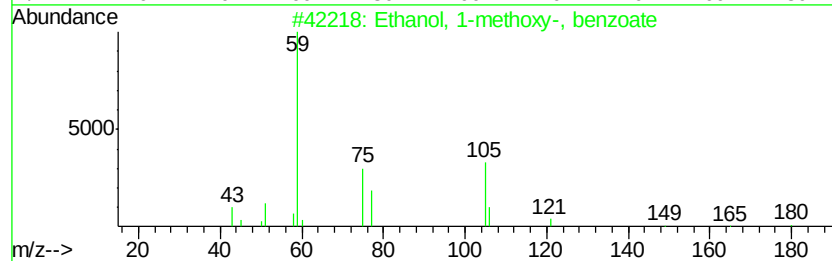
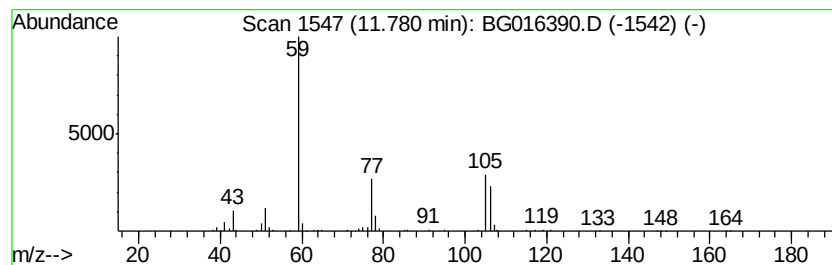
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Ethanol, 1-methoxy-, benzoate Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.78 | 4.56 ng | 185530 | Naphthalene-d8   | 10.46 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|---------|---|-------------------------------------|-----|------------|--------------|------|
| 1       |   | Ethanol, 1-methoxy-, benzoate       | 180 | C10H12O3   | 051835-44-0  | 50   |
| 2       |   | Propanedioic acid, (benzoylhydra... | 282 | C12H14N2O6 | 1000142-99-9 | 23   |
| 3       |   | 2-Butanol, 1-mercapto-              | 106 | C4H10OS    | 025807-94-7  | 9    |
| 4       |   | Acetic acid, chloro-, methyl ester  | 108 | C3H5ClO2   | 000096-34-4  | 9    |
| 5       |   | 3-Ethoxy-2-bromo-1-propanol         | 182 | C5H11BrO2  | 133532-45-3  | 9    |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

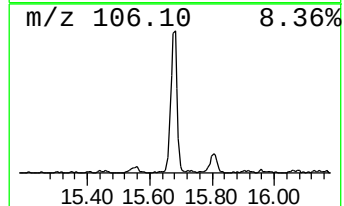
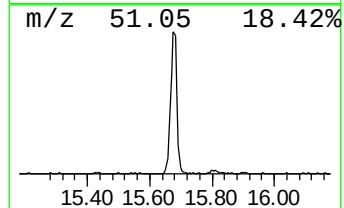
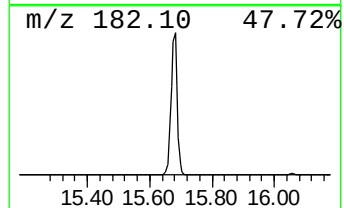
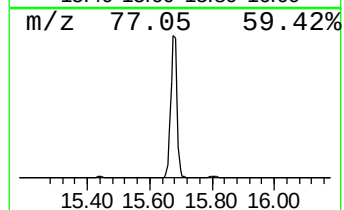
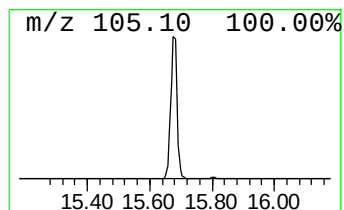
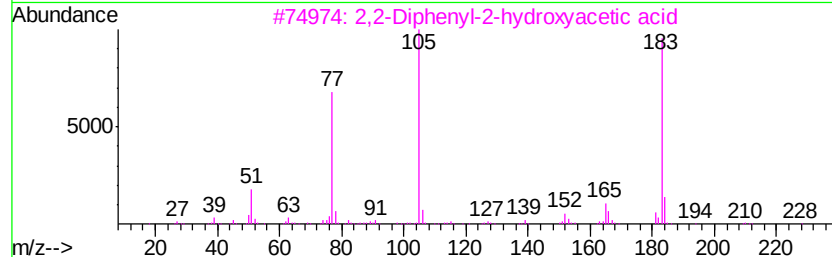
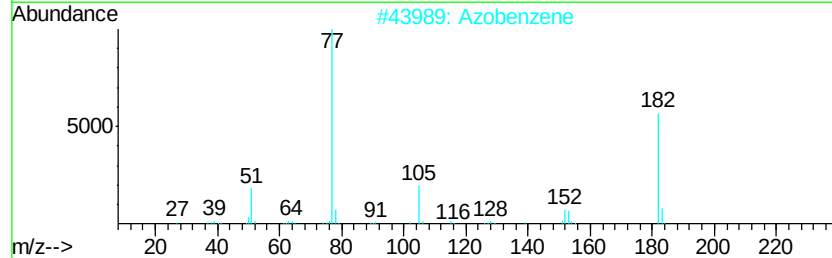
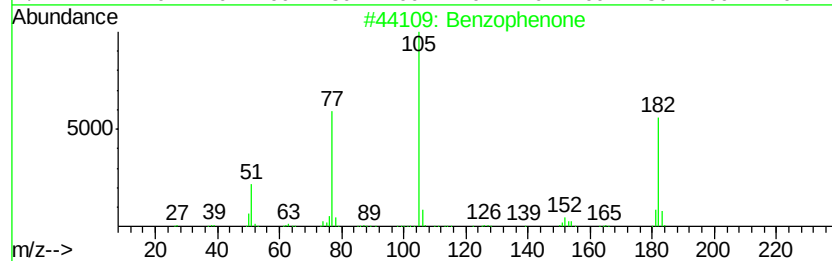
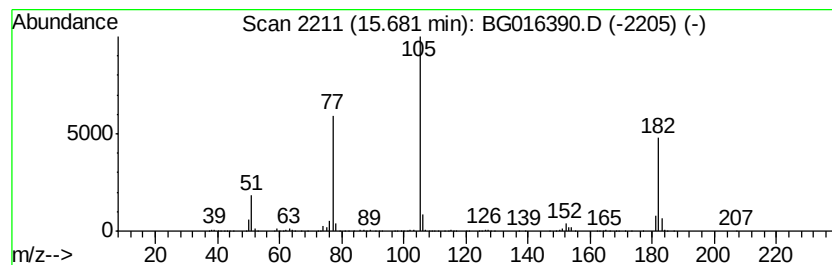
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Benzophenone Concentration Rank 3

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.           |
|---------|----------|-------------------------------------|------------------|----------------|
| 15.68   | 17.46 ng | 970080                              | Acenaphthene-d10 | 14.32          |
| Hit# of | 5        | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |          | Benzophenone                        | 182 C13H10O      | 000119-61-9 96 |
| 2       |          | Azobenzene                          | 182 C12H10N2     | 000103-33-3 64 |
| 3       |          | 2,2-Diphenyl-2-hydroxyacetic acid   | 228 C14H12O3     | 000076-93-7 50 |
| 4       |          | .alpha.,.alpha.-Dichloroacetophe... | 188 C8H6Cl2O     | 002648-61-5 43 |
| 5       |          | Benzoyl isothiocyanate              | 163 C8H5NOS      | 000532-55-8 43 |





Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

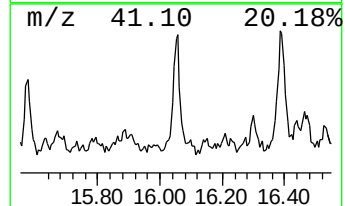
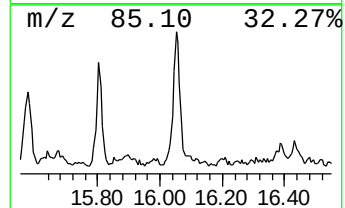
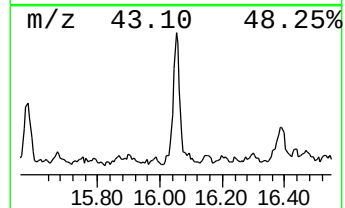
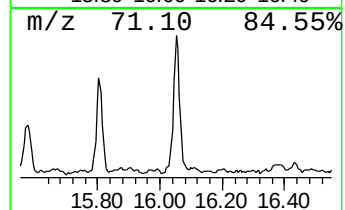
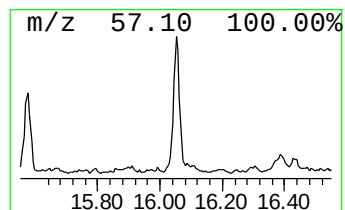
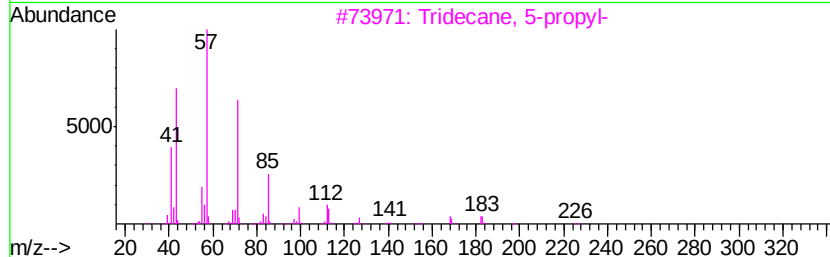
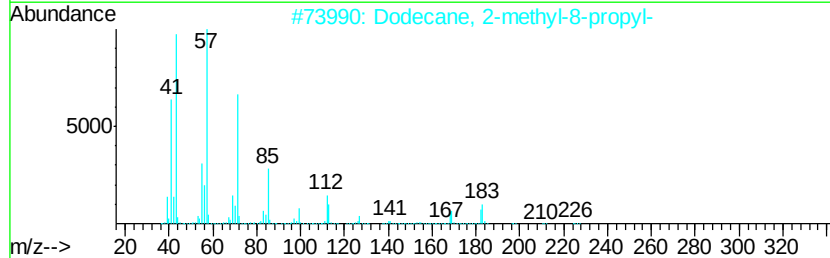
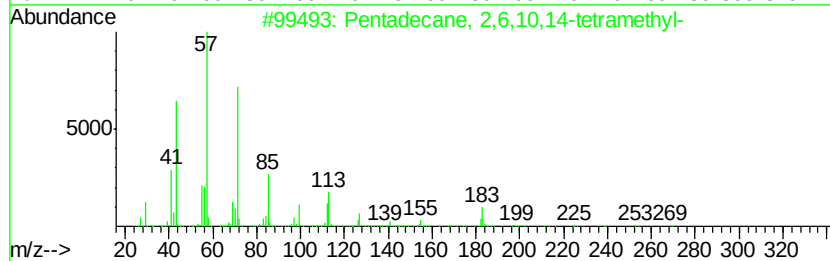
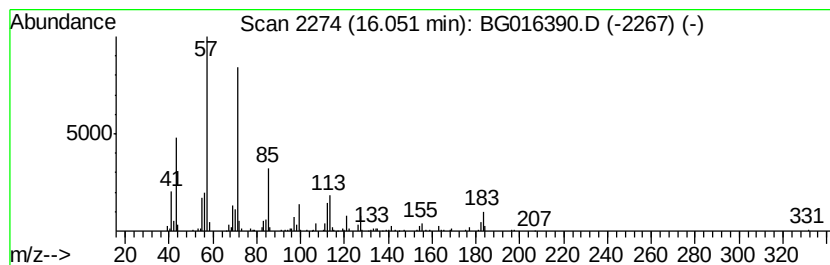
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Pentadecane, 2,6,10,14-tetr... Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.05 | 3.32 ng | 201295 | Phenanthrene-d10 | 17.06 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40  | 001921-70-6 | 91   |
| 2    |    | Dodecane, 2-methyl-8-propyl-        | 226 | C16H34  | 055045-07-3 | 90   |
| 3    |    | Tridecane, 5-propyl-                | 226 | C16H34  | 055045-11-9 | 72   |
| 4    |    | Dodecane, 2,6,11-trimethyl-         | 212 | C15H32  | 031295-56-4 | 72   |
| 5    |    | Dodecane, 2,7,10-trimethyl-         | 212 | C15H32  | 074645-98-0 | 72   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

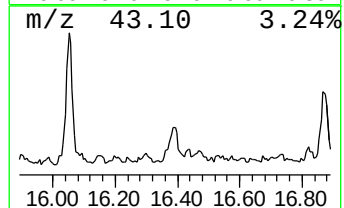
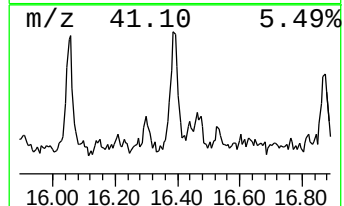
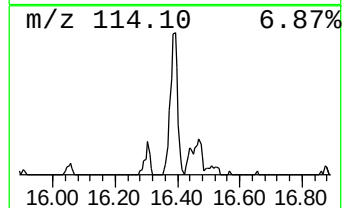
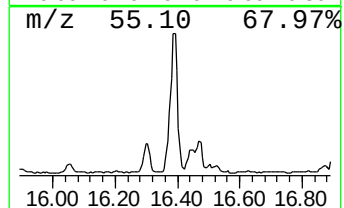
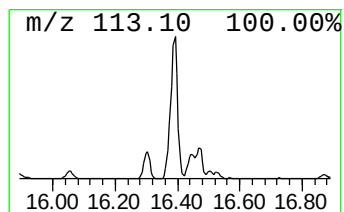
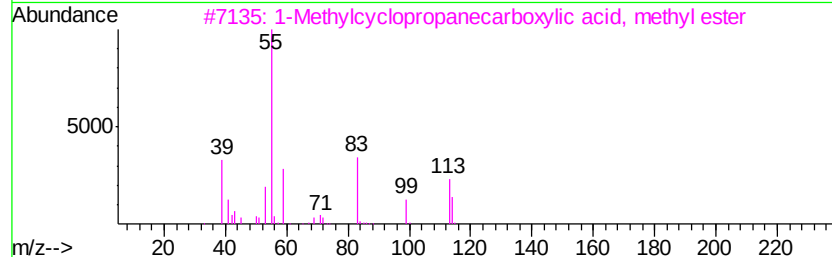
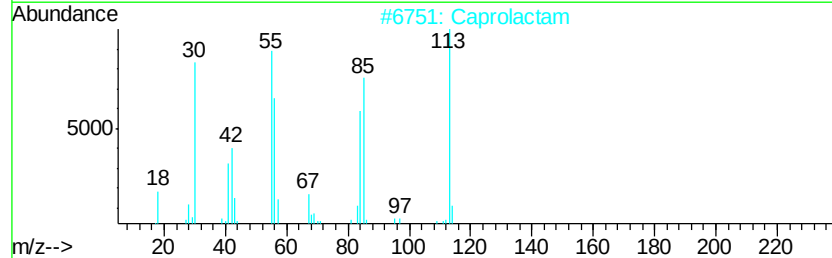
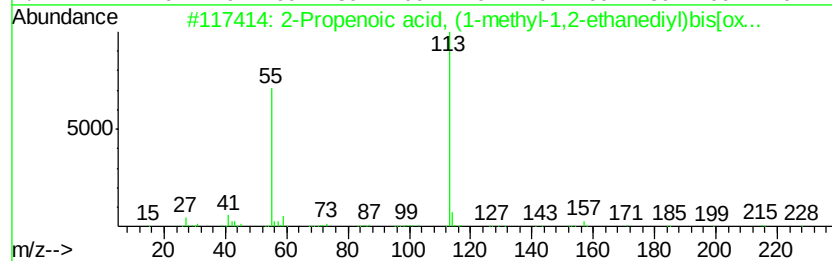
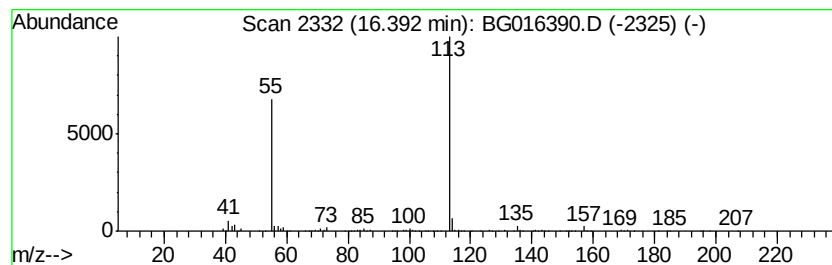
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 9 2-Propenoic acid, (1-methyl... Concentration Rank 9

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 16.39     | 5.41 ng                             | 327635 | Phenanthrene-d10 | 17.06       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 2-Propenoic acid, (1-methyl-1,2-... | 300    | C15H24O6         | 042978-66-5 | 72   |
| 2         | Caprolactam                         | 113    | C6H11NO          | 000105-60-2 | 9    |
| 3         | 1-Methylcyclopropanecarboxylic a... | 114    | C6H10O2          | 006206-25-3 | 9    |
| 4         | Propanedioic acid, 2-propenyl-, ... | 172    | C8H12O4          | 040637-56-7 | 9    |
| 5         | 4,6-Nonanedione                     | 156    | C9H16O2          | 014090-88-1 | 9    |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

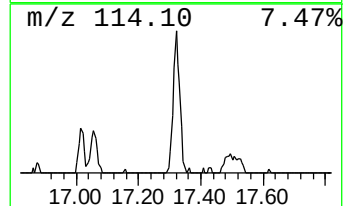
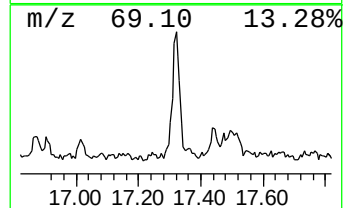
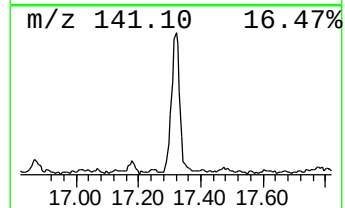
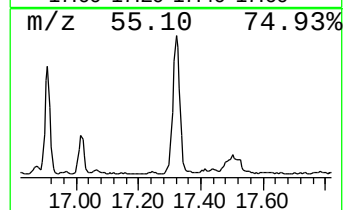
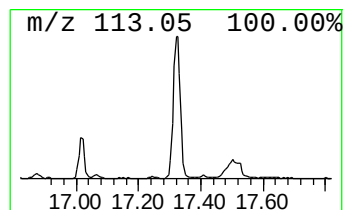
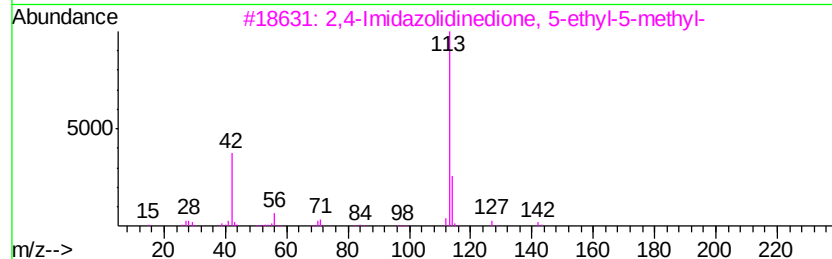
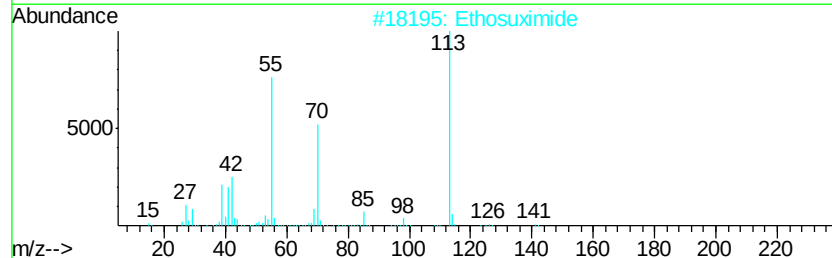
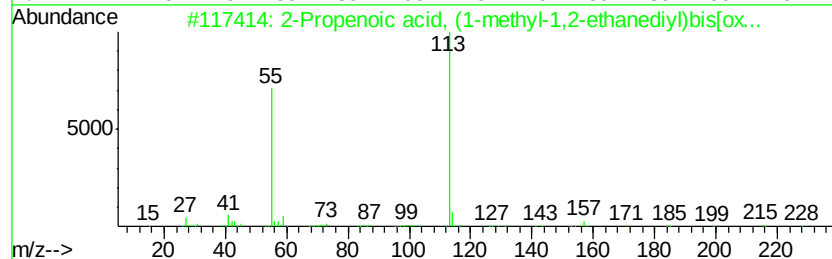
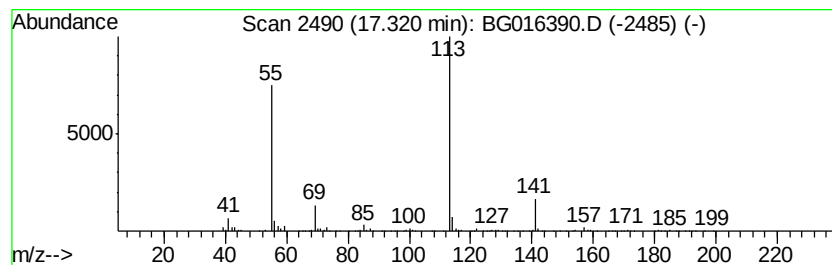
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 unknown17.32 Concentration Rank 10

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 17.32     | 5.12 ng                             | 310150 | Phenanthrene-d10 | 17.06       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 2-Propenoic acid, (1-methyl-1,2-... | 300    | C15H24O6         | 042978-66-5 | 59   |
| 2         | Ethosuximide                        | 141    | C7H11NO2         | 000077-67-8 | 40   |
| 3         | 2,4-Imidazolidinedione, 5-ethyl-... | 142    | C6H10N2O2        | 005394-36-5 | 28   |
| 4         | Cyclohexanone, 2-ethyl-, oxime      | 141    | C8H15NO          | 086823-11-2 | 9    |
| 5         | Pyrimidine, 2-fluoro-4-amino-       | 113    | C4H4FN3          | 096548-91-3 | 9    |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

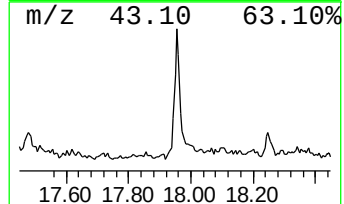
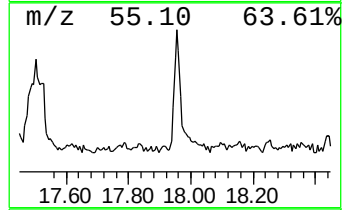
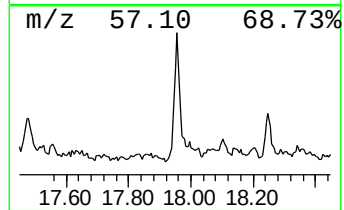
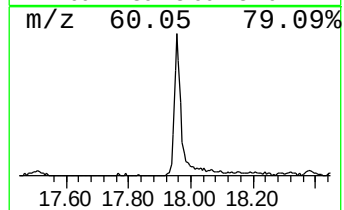
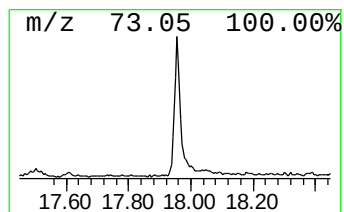
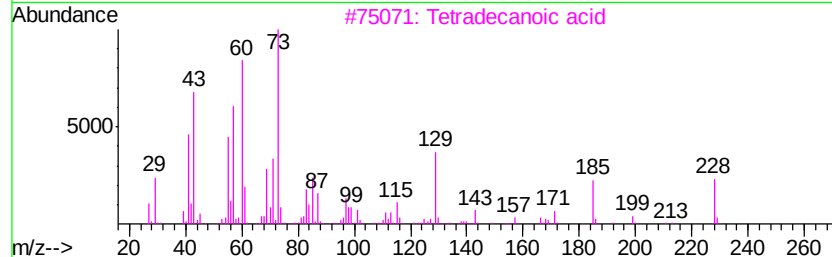
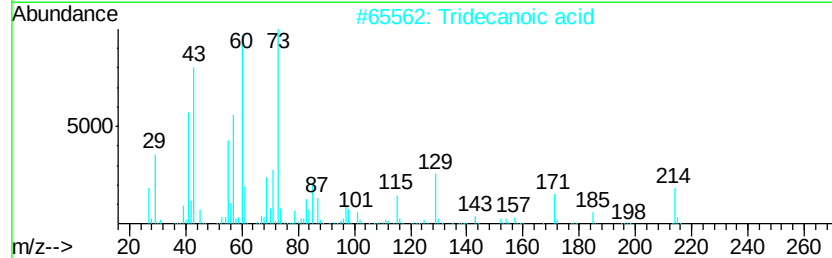
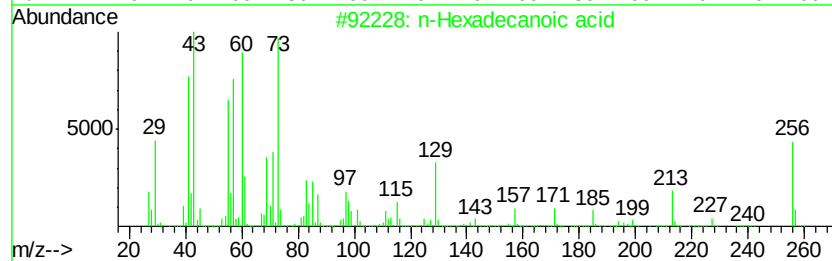
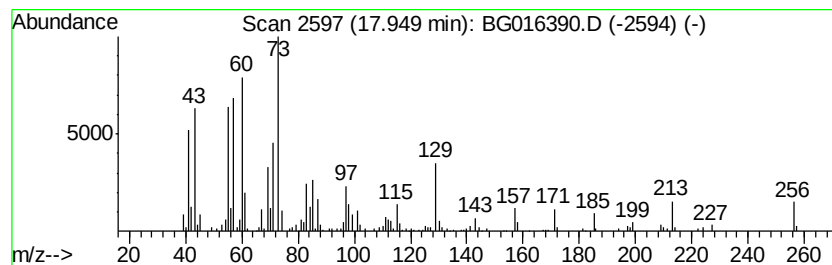
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 n-Hexadecanoic acid Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.95 | 3.86 ng | 233737 | Phenanthrene-d10 | 17.06 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 81   |
| 3    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 72   |
| 4    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 64   |
| 5    |    | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 58   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

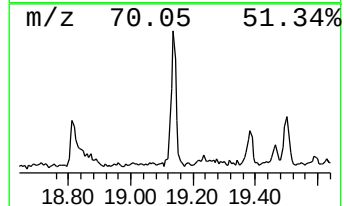
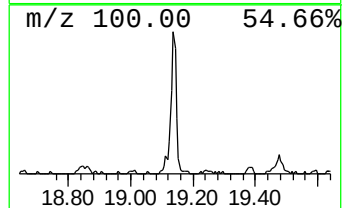
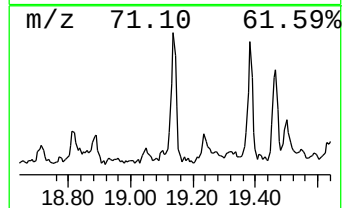
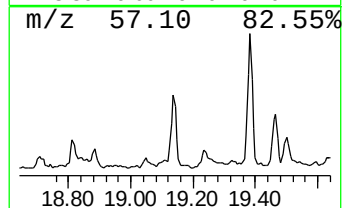
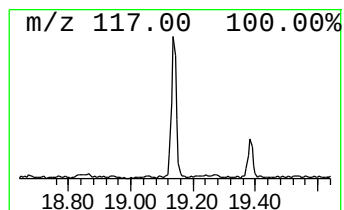
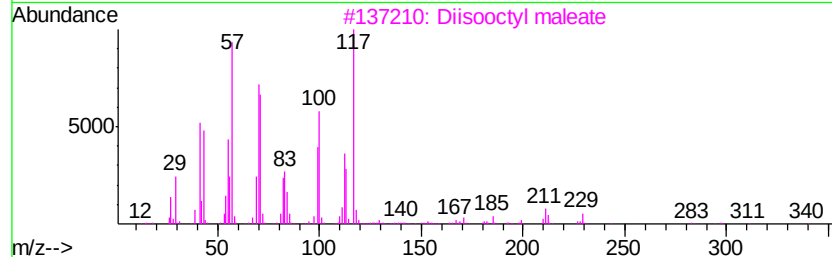
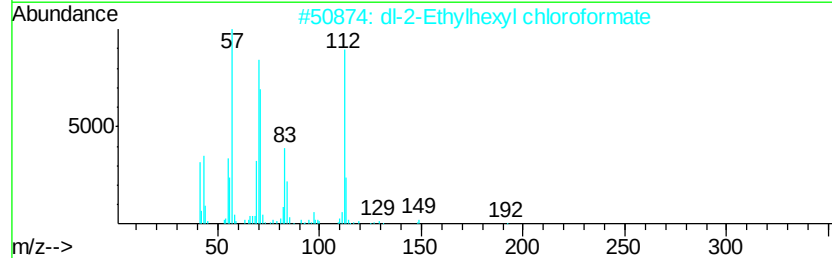
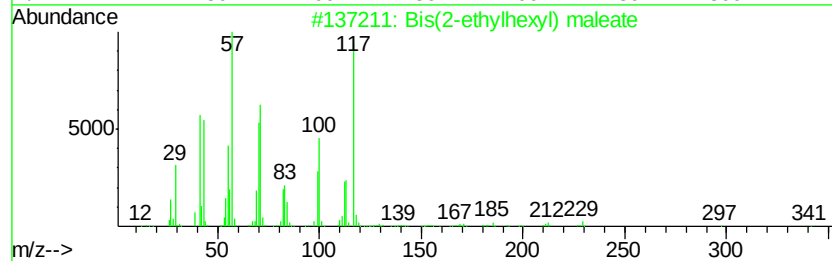
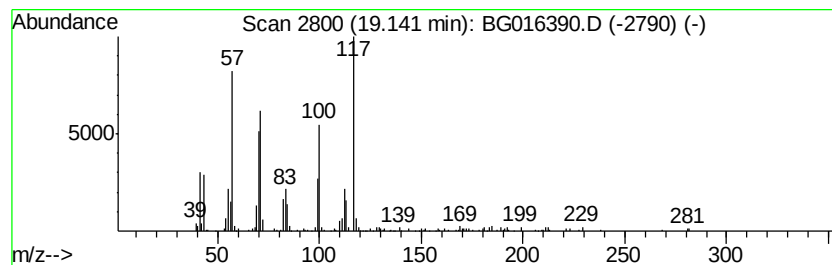
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Bis(2-ethylhexyl) maleate Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.14 | 3.83 ng | 231899 | Phenanthrene-d10 | 17.06 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Bis(2-ethylhexyl) maleate           | 340 | C20H36O4  | 000142-16-5 | 86   |
| 2    |    | dl-2-Ethylhexyl chloroformate       | 192 | C9H17ClO2 | 024468-13-1 | 38   |
| 3    |    | Diisooctyl maleate                  | 340 | C20H36O4  | 001330-76-3 | 38   |
| 4    |    | 2-Butenedioic acid (E)-, bis(2-e... | 340 | C20H36O4  | 000141-02-6 | 35   |
| 5    |    | 1-Decene, 3,4-dimethyl-             | 168 | C12H24    | 050871-03-9 | 35   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

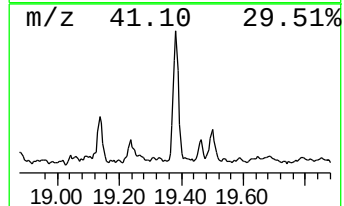
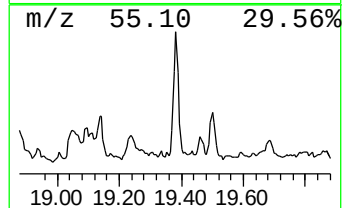
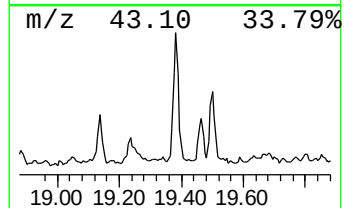
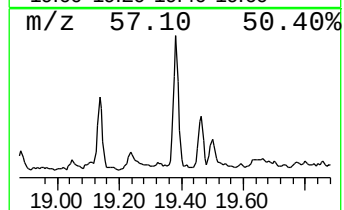
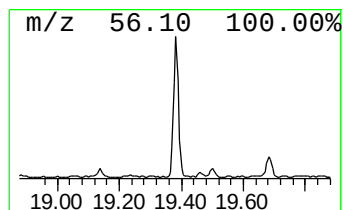
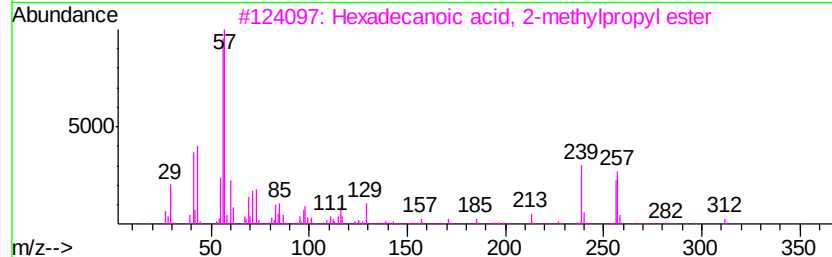
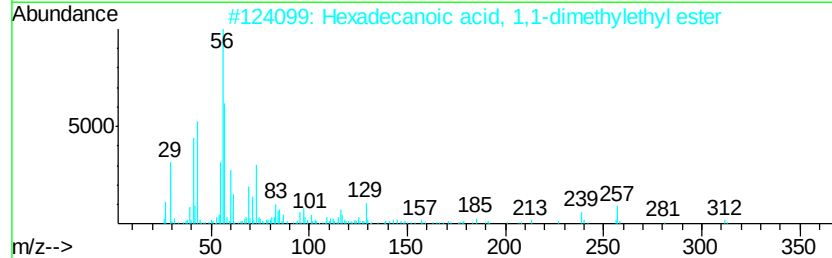
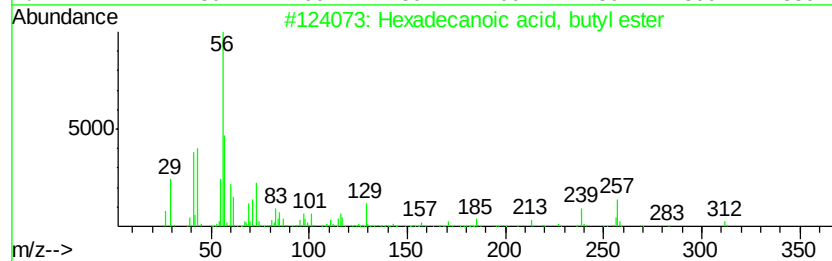
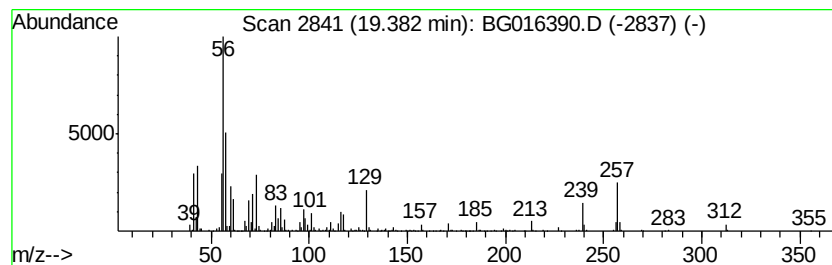
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 13 Hexadecanoic acid, butyl ester Concentration Rank 8

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 19.38     | 6.54 ng                             | 433569 | Chrysene-d12     | 21.23       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Hexadecanoic acid, butyl ester      | 312    | C20H40O2         | 000111-06-8 | 98   |
| 2         | Hexadecanoic acid, 1,1-dimethyle... | 312    | C20H40O2         | 031158-91-5 | 95   |
| 3         | Hexadecanoic acid, 2-methylpropy... | 312    | C20H40O2         | 000110-34-9 | 93   |
| 4         | Nipecotic acid                      | 129    | C6H11NO2         | 000498-95-3 | 47   |
| 5         | Cyclopentanecarboxylic acid, 2-a... | 129    | C6H11NO2         | 037910-65-9 | 38   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

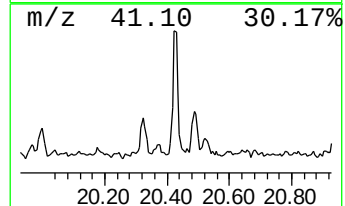
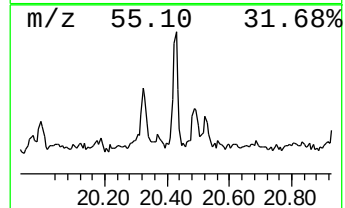
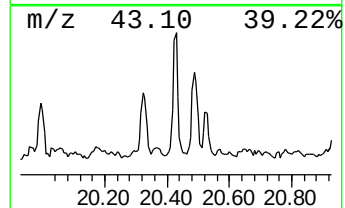
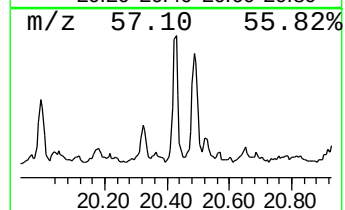
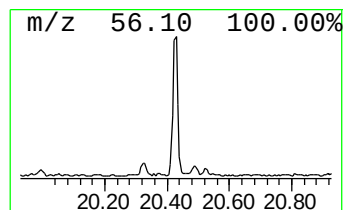
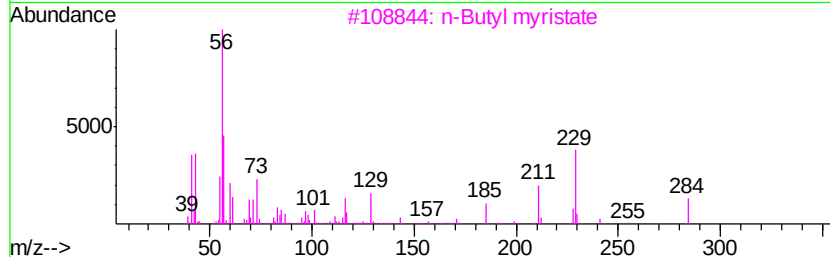
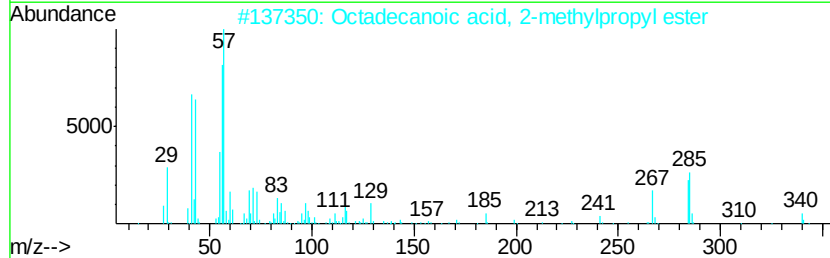
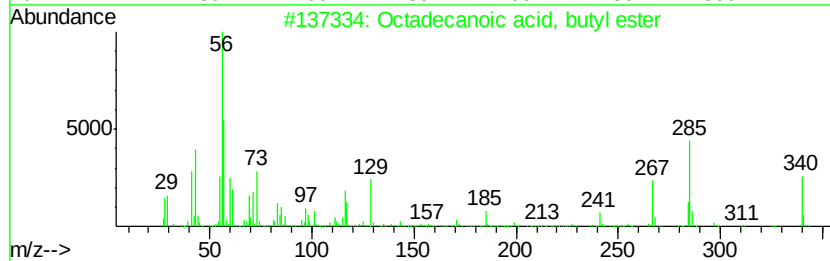
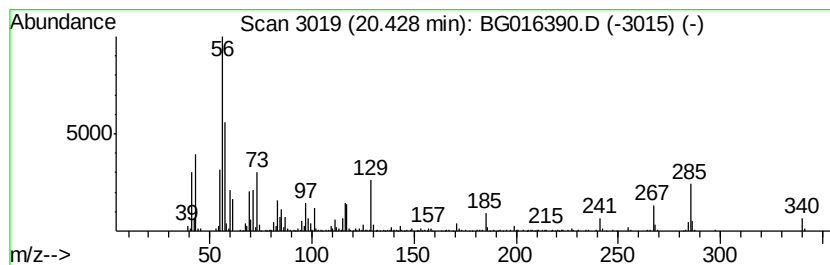
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TIC Integration Parameters: LSCINT.P

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Peak Number 14 Octadecanoic acid, butyl ester Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 20.43 | 4.87 ng | 322683 | Chrysene-d12     | 21.23 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecanoic acid, butyl ester      | 340 | C22H44O2 | 000123-95-5 | 93   |
| 2    |    | Octadecanoic acid, 2-methylpropy... | 340 | C22H44O2 | 000646-13-9 | 90   |
| 3    |    | n-Butyl myristate                   | 284 | C18H36O2 | 000110-36-1 | 58   |
| 4    |    | 2,4-Dipropyl-5-ethyl-1,3-dioxane    | 200 | C12H24O2 | 006413-83-8 | 32   |
| 5    |    | Cyclohexane, (1,1-dimethylethyl)-   | 140 | C10H20   | 003178-22-1 | 30   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

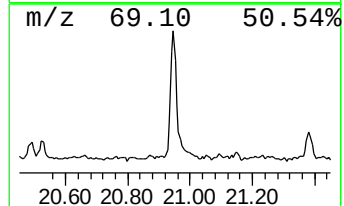
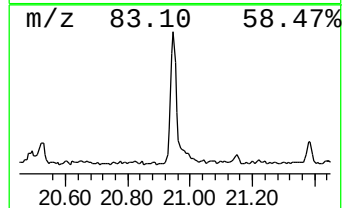
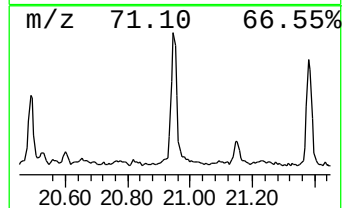
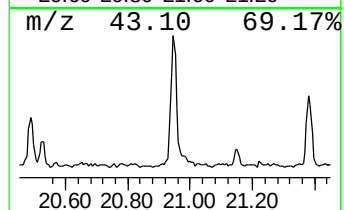
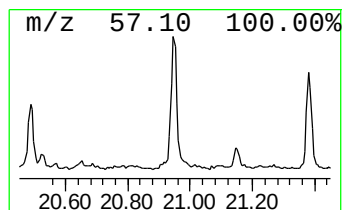
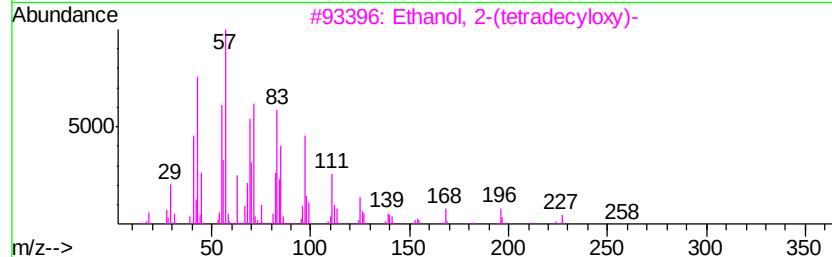
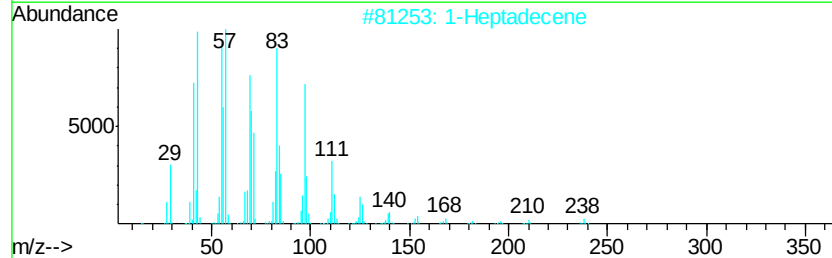
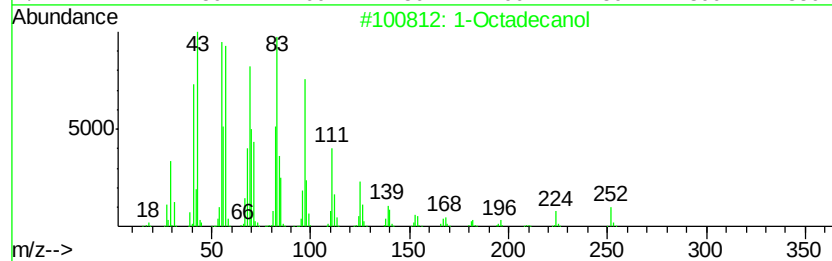
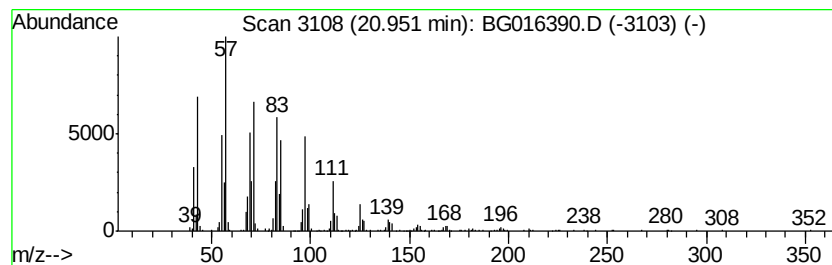
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BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 1-Octadecanol Concentration Rank 6

| R.T.      | EstConc                     | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------------------|--------|------------------|-------------|-------|
| 20.95     | 8.04 ng                     | 532741 | Chrysene-d12     |             | 21.23 |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual  |
| 1         | 1-Octadecanol               | 270    | C18H38O          | 000112-92-5 | 93    |
| 2         | 1-Heptadecene               | 238    | C17H34           | 006765-39-5 | 92    |
| 3         | Ethanol, 2-(tetradecyloxy)- | 258    | C16H34O2         | 002136-70-1 | 91    |
| 4         | 9-Eicosene, (E)-            | 280    | C20H40           | 074685-29-3 | 89    |
| 5         | 1-Docosene                  | 308    | C22H44           | 001599-67-3 | 89    |





Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

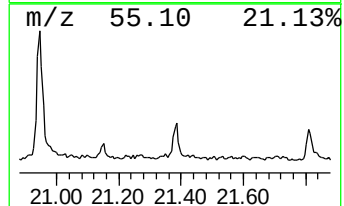
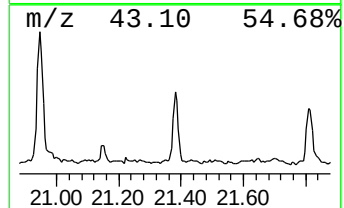
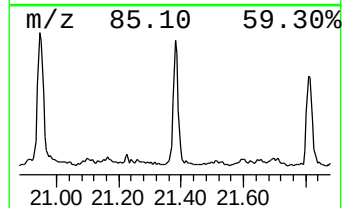
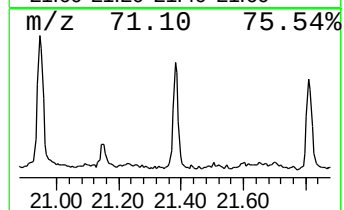
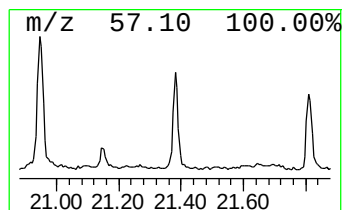
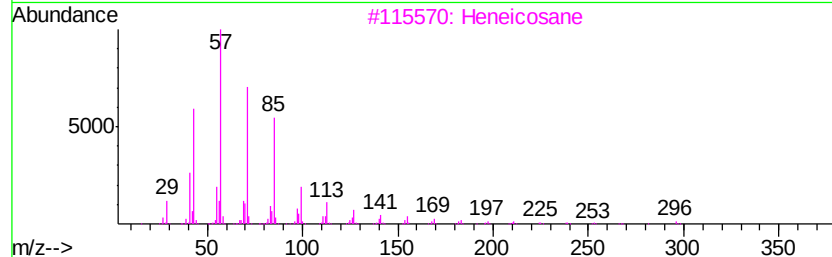
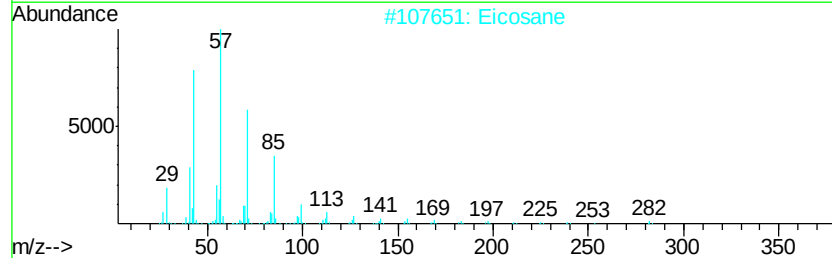
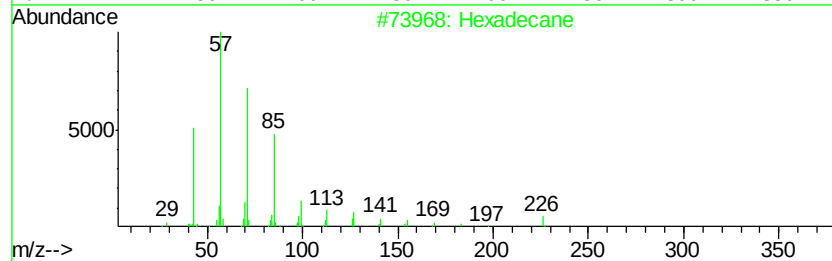
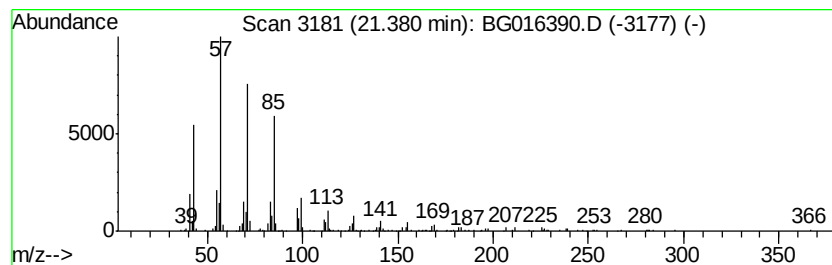
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ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 16 Hexadecane Concentration Rank 17

| R.T.    | EstConc               | Area         | Relative to ISTD | R.T.      |
|---------|-----------------------|--------------|------------------|-----------|
| 21.38   | 2.82 ng               | 187072       | Chrysene-d12     | 21.23     |
| Hit# of | 5                     | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Hexadecane            | 226 C16H34   | 000544-76-3      | 96        |
| 2       | Eicosane              | 282 C20H42   | 000112-95-8      | 93        |
| 3       | Heneicosane           | 296 C21H44   | 000629-94-7      | 91        |
| 4       | Heptadecane, 9-octyl- | 352 C25H52   | 007225-64-1      | 91        |
| 5       | Octacosane            | 394 C28H58   | 000630-02-4      | 91        |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
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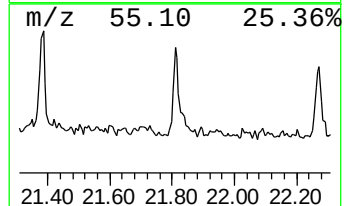
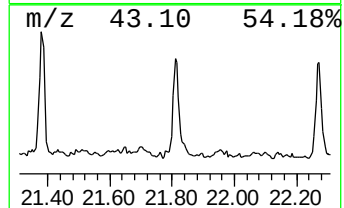
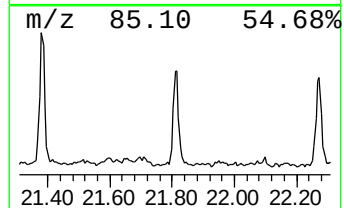
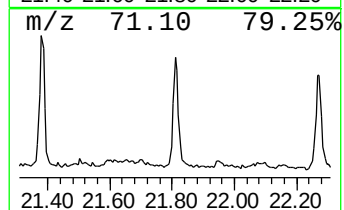
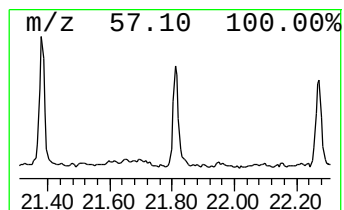
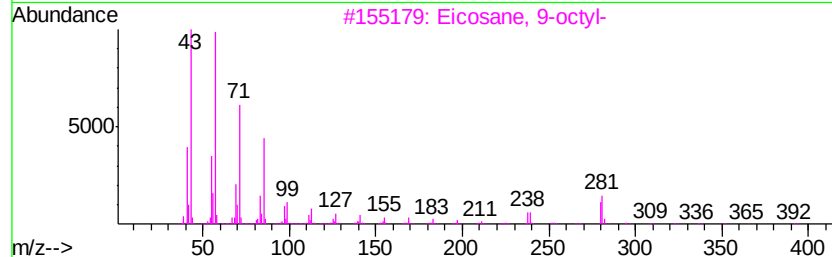
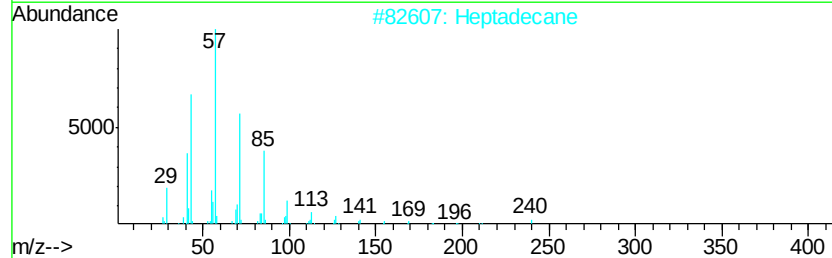
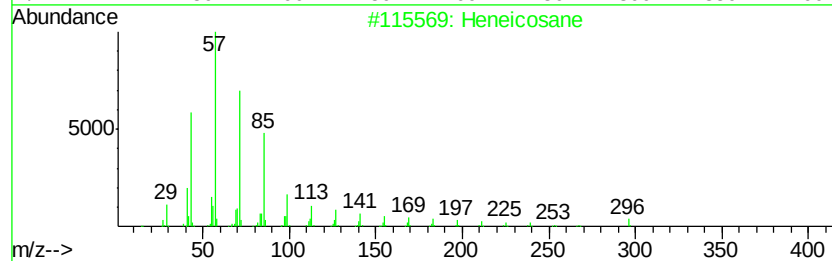
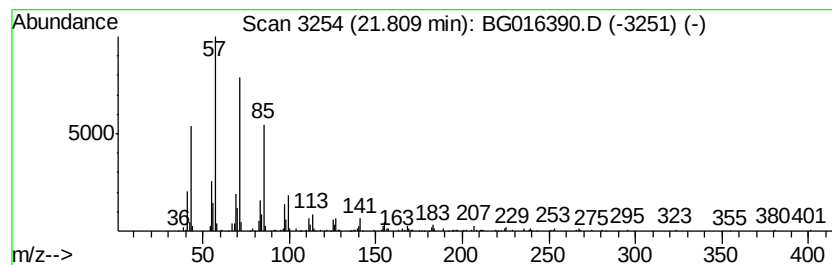
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LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 17 Heneicosane Concentration Rank 18

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 21.81     | 2.52 ng             | 167122 | Chrysene-d12     |             | 21.23 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | Heneicosane         | 296    | C21H44           | 000629-94-7 | 90    |
| 2         | Heptadecane         | 240    | C17H36           | 000629-78-7 | 87    |
| 3         | Eicosane, 9-octyl-  | 394    | C28H58           | 013475-77-9 | 87    |
| 4         | Triacontane         | 422    | C30H62           | 000638-68-6 | 87    |
| 5         | Docosane, 11-butyl- | 366    | C26H54           | 013475-76-8 | 87    |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
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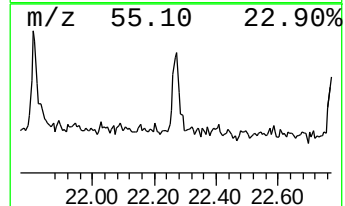
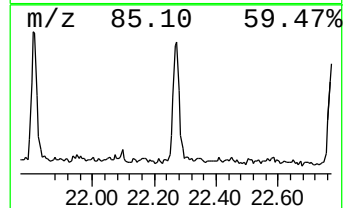
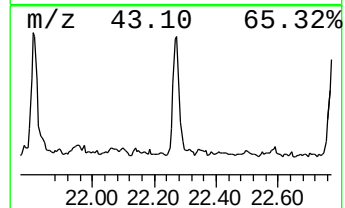
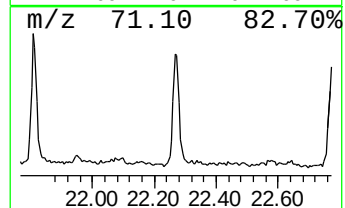
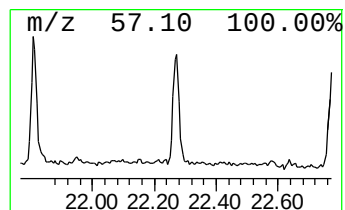
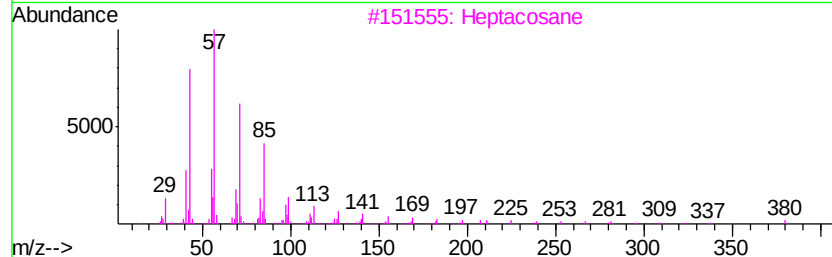
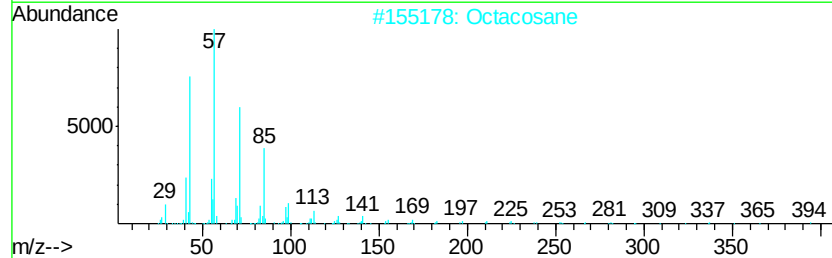
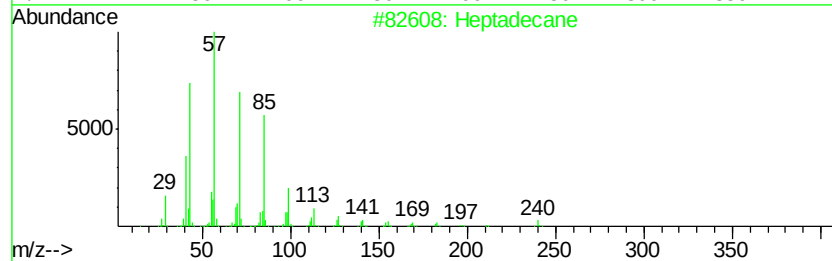
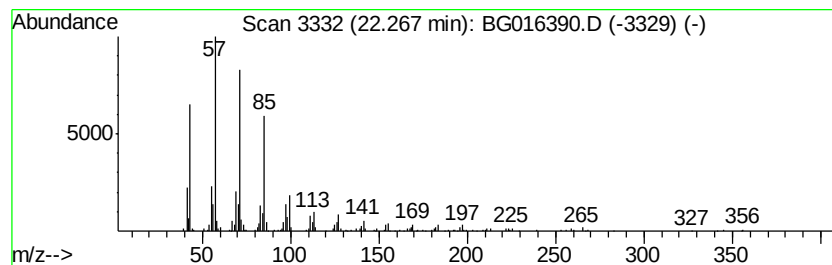
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 18 Heptadecane Concentration Rank 20

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 22.27     | 2.38 ng             | 157964 | Chrysene-d12     | 21.23       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | Heptadecane         | 240    | C17H36           | 000629-78-7 | 96   |
| 2         | Octacosane          | 394    | C28H58           | 000630-02-4 | 93   |
| 3         | Heptacosane         | 380    | C27H56           | 000593-49-7 | 90   |
| 4         | 10-Methylnonadecane | 282    | C20H42           | 056862-62-5 | 90   |
| 5         | Heneicosane         | 296    | C21H44           | 000629-94-7 | 87   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

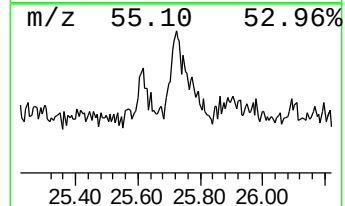
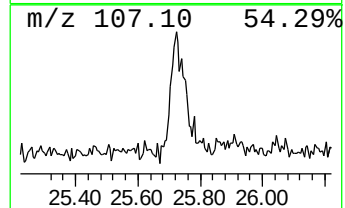
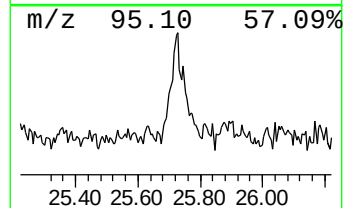
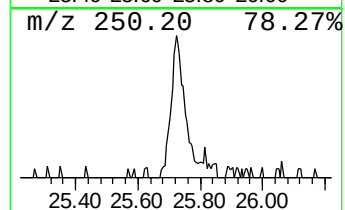
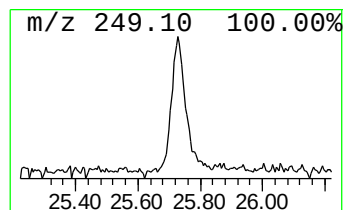
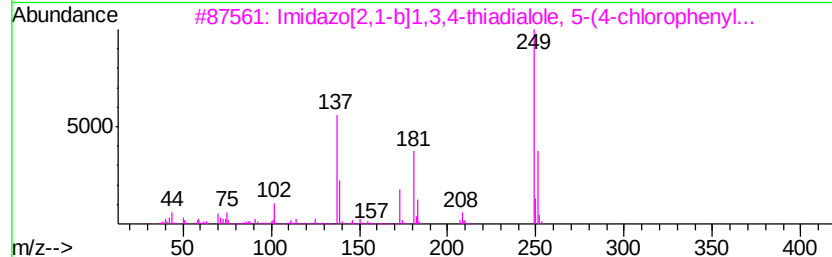
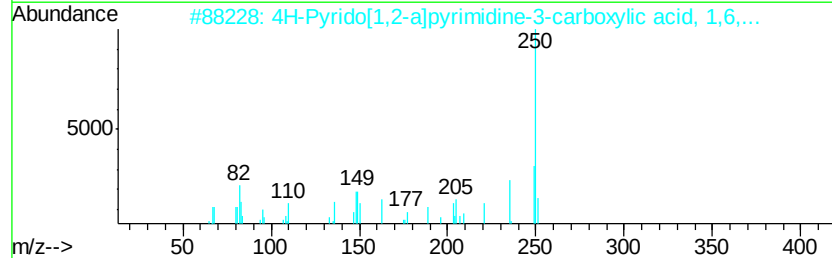
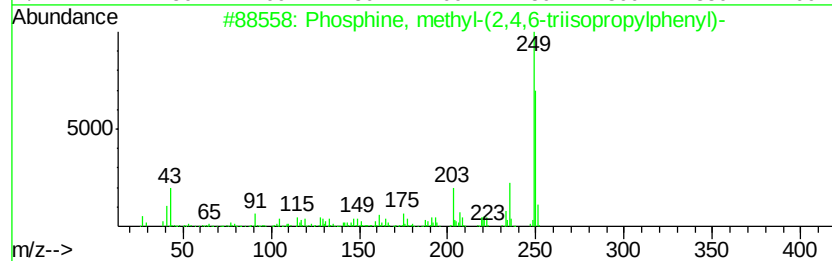
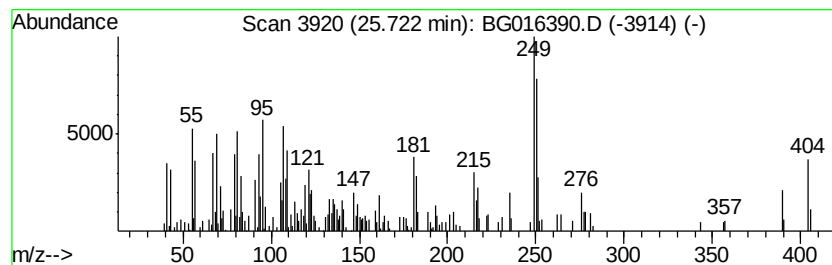
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 unknown25.72 Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 25.72 | 3.43 ng | 212500 | Perylene-d12     | 23.47 |

| Hit# | of | Tentative ID                                                                                                                                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Phosphine, methyl-(2,4,6-triisopropylphenyl)-                                                                                                       | 250 | C16H27P    | 158748-69-7  | 38   |
| 2    |    | 4H-Pyrido[1,2-a]pyrimidine-3-carboxylic acid, 1,6-dimethyl-, 1,6-dihydro-, 1,6-dihydro-1,6-dimethyl-4H-pyrido[1,2-a]pyrimidin-3(1H)-carboxylic acid | 250 | C13H18N2O3 | 035569-43-8  | 30   |
| 3    |    | Imidazo[2,1-b]1,3,4-thiadiazole, 5-(4-chlorophenyl)-                                                                                                | 249 | C11H8ClN3S | 037663-95-9  | 27   |
| 4    |    | 2-Naphthyl-p-tolyl sulfide                                                                                                                          | 250 | C17H14S    | 052258-16-9  | 25   |
| 5    |    | Pyrimidine, 2-(3,5-dimethylpyrazol-4-yl)-                                                                                                           | 250 | C15H14N4   | 1000259-18-6 | 22   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
Data File : BG016390.D  
Acq On : 14 Apr 2015 10:05  
Operator : TP/IZ  
Sample : G1791-08  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

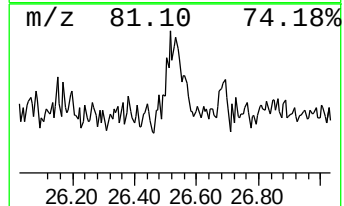
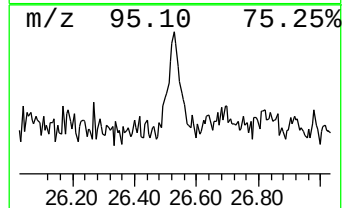
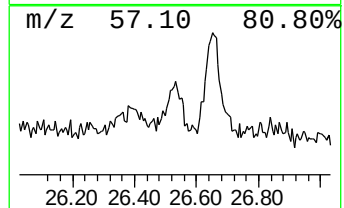
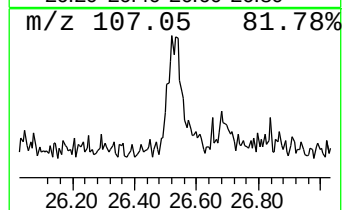
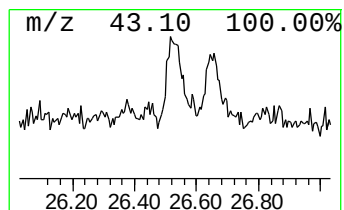
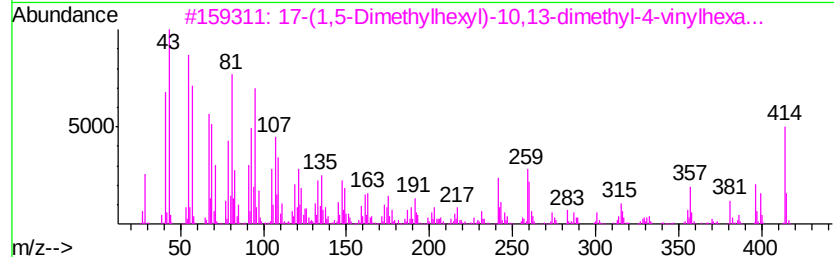
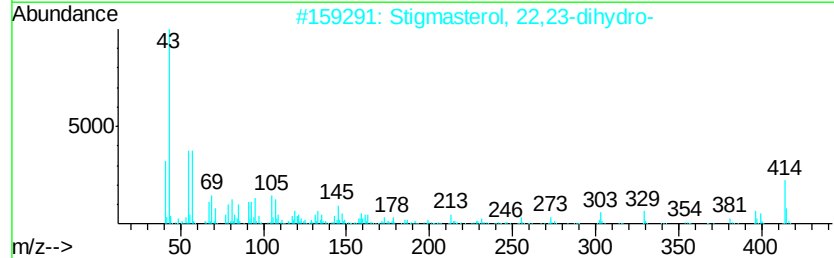
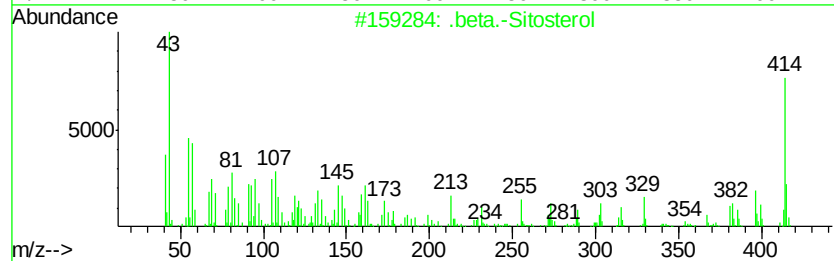
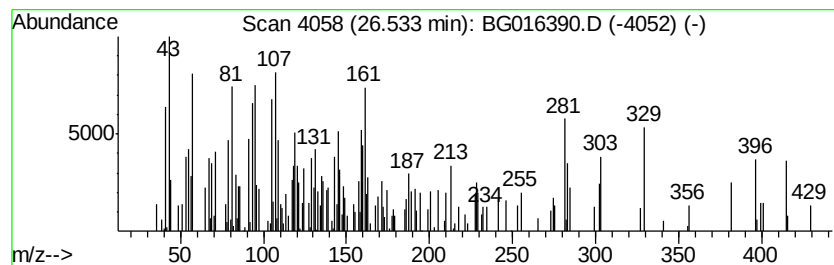
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 .beta.-Sitosterol Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 26.53 | 2.43 ng | 150311 | Perylene-d12     | 23.47 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | .beta.-Sitosterol                   | 414 | C29H50O | 000083-46-5  | 62   |
| 2    |    | Stigmasterol, 22,23-dihydro-        | 414 | C29H50O | 1000214-20-7 | 50   |
| 3    |    | 17-(1,5-Dimethylhexyl)-10,13-dim... | 414 | C29H50O | 1000210-86-9 | 30   |
| 4    |    | Ergost-5-en-3-ol, (3.beta.)-        | 400 | C28H48O | 004651-51-8  | 27   |
| 5    |    | .gamma.-Sitosterol                  | 414 | C29H50O | 000083-47-6  | 25   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041315\  
 Data File : BG016390.D  
 Acq On : 14 Apr 2015 10:05  
 Operator : TP/IZ  
 Sample : G1791-08  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LS-SD10C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG040615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butane, 2-methoxy... | 2.85  | 8.0     | ng    | 212091   | 1                     | 7.67  | 532593  | 20.0 |
| 2-Pentanone, 4-hy... | 4.79  | 12.0    | ng    | 319218   | 1                     | 7.67  | 532593  | 20.0 |
| unknown7.21          | 7.21  | 107.6   | ng    | 2866020  | 1                     | 7.67  | 532593  | 20.0 |
| Ethanol, 1-methox... | 11.78 | 4.6     | ng    | 185530   | 2                     | 10.46 | 814183  | 20.0 |
| Benzophenone         | 15.68 | 17.5    | ng    | 970080   | 3                     | 14.32 | 1111400 | 20.0 |
| Pentadecane, 2,6,... | 16.05 | 3.3     | ng    | 201295   | 4                     | 17.06 | 1211680 | 20.0 |
| 2-Propenoic acid,... | 16.39 | 5.4     | ng    | 327635   | 4                     | 17.06 | 1211680 | 20.0 |
| unknown17.32         | 17.32 | 5.1     | ng    | 310150   | 4                     | 17.06 | 1211680 | 20.0 |
| n-Hexadecanoic acid  | 17.95 | 3.9     | ng    | 233737   | 4                     | 17.06 | 1211680 | 20.0 |
| Bis(2-ethylhexyl)... | 19.14 | 3.8     | ng    | 231899   | 4                     | 17.06 | 1211680 | 20.0 |
| Hexadecanoic acid... | 19.38 | 6.5     | ng    | 433569   | 5                     | 21.23 | 1324960 | 20.0 |
| Octadecanoic acid... | 20.43 | 4.9     | ng    | 322683   | 5                     | 21.23 | 1324960 | 20.0 |
| 1-Octadecanol        | 20.95 | 8.0     | ng    | 532741   | 5                     | 21.23 | 1324960 | 20.0 |
| Hexadecane           | 21.38 | 2.8     | ng    | 187072   | 5                     | 21.23 | 1324960 | 20.0 |
| Heneicosane          | 21.81 | 2.5     | ng    | 167122   | 5                     | 21.23 | 1324960 | 20.0 |
| Heptadecane          | 22.27 | 2.4     | ng    | 157964   | 5                     | 21.23 | 1324960 | 20.0 |
| unknown25.72         | 25.72 | 3.4     | ng    | 212500   | 6                     | 23.47 | 1238770 | 20.0 |
| .beta.-Sitosterol    | 26.53 | 2.4     | ng    | 150311   | 6                     | 23.47 | 1238770 | 20.0 |