

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041416\  
 Data File : BG021684.D  
 Acq On : 15 Apr 2016 12:40  
 Operator : UM/SJ  
 Sample : H2412-04 2X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP-7W(0-2)A

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-BG041316.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         | 3.112       | 40            | 46          | 67           | rVB      | 1349161        | 2270201       | 100.00%         | 19.069%       |
| 2         | 5.303       | 412           | 419         | 427          | rVB      | 34237          | 54346         | 2.39%           | 0.456%        |
| 3         | 5.768       | 491           | 498         | 507          | rBV      | 349605         | 597027        | 26.30%          | 5.015%        |
| 4         | 7.366       | 762           | 770         | 779          | rBV      | 390854         | 689882        | 30.39%          | 5.795%        |
| 5         | 7.748       | 827           | 835         | 844          | rBV      | 377759         | 660182        | 29.08%          | 5.545%        |
| 6         | 8.218       | 904           | 915         | 923          | rBV      | 159701         | 275683        | 12.14%          | 2.316%        |
| 7         | 8.547       | 960           | 971         | 978          | rBV      | 278766         | 502561        | 22.14%          | 4.221%        |
| 8         | 9.387       | 1106          | 1114        | 1121         | rBV      | 230015         | 433717        | 19.10%          | 3.643%        |
| 9         | 11.032      | 1387          | 1394        | 1401         | rBV      | 223194         | 414400        | 18.25%          | 3.481%        |
| 10        | 13.453      | 1799          | 1806        | 1818         | rVB      | 589843         | 920327        | 40.54%          | 7.730%        |
| 11        | 13.635      | 1828          | 1837        | 1846         | rBV6     | 14163          | 44966         | 1.98%           | 0.378%        |
| 12        | 14.263      | 1938          | 1944        | 1952         | rBV      | 90297          | 166380        | 7.33%           | 1.398%        |
| 13        | 14.822      | 2027          | 2039        | 2047         | rBV2     | 325222         | 563532        | 24.82%          | 4.733%        |
| 14        | 15.638      | 2174          | 2178        | 2184         | rVB      | 24908          | 36745         | 1.62%           | 0.309%        |
| 15        | 15.862      | 2210          | 2216        | 2223         | rBV4     | 18430          | 38741         | 1.71%           | 0.325%        |
| 16        | 16.302      | 2285          | 2291        | 2299         | rVB      | 384924         | 589465        | 25.97%          | 4.951%        |
| 17        | 16.502      | 2321          | 2325        | 2326         | rBV      | 33145          | 40753         | 1.80%           | 0.342%        |
| 18        | 16.525      | 2326          | 2329        | 2335         | rVB2     | 52542          | 73213         | 3.22%           | 0.615%        |
| 19        | 17.289      | 2456          | 2459        | 2463         | rVB      | 31037          | 32941         | 1.45%           | 0.277%        |
| 20        | 17.342      | 2464          | 2468        | 2472         | rBV2     | 31721          | 45583         | 2.01%           | 0.383%        |
| 21        | 17.560      | 2499          | 2505        | 2509         | rBV      | 373374         | 583227        | 25.69%          | 4.899%        |
| 22        | 17.601      | 2509          | 2512        | 2518         | rVB      | 124101         | 183315        | 8.07%           | 1.540%        |
| 23        | 17.695      | 2524          | 2528        | 2532         | rVB      | 30340          | 43289         | 1.91%           | 0.364%        |
| 24        | 18.030      | 2582          | 2585        | 2589         | rVB2     | 24489          | 28944         | 1.27%           | 0.243%        |
| 25        | 18.470      | 2658          | 2660        | 2664         | rBV      | 18326          | 27477         | 1.21%           | 0.231%        |
| 26        | 18.711      | 2698          | 2701        | 2707         | rBV      | 24356          | 36372         | 1.60%           | 0.306%        |
| 27        | 19.334      | 2804          | 2807        | 2811         | rVB3     | 38989          | 42843         | 1.89%           | 0.360%        |
| 28        | 19.592      | 2846          | 2851        | 2856         | rBV      | 229621         | 333031        | 14.67%          | 2.797%        |
| 29        | 19.957      | 2908          | 2913        | 2920         | rVB      | 223698         | 349407        | 15.39%          | 2.935%        |
| 30        | 20.145      | 2940          | 2945        | 2950         | rBV      | 792644         | 1048135       | 46.17%          | 8.804%        |
| 31        | 20.433      | 2991          | 2994        | 3000         | rVB2     | 66057          | 87094         | 3.84%           | 0.732%        |
| 32        | 21.831      | 3226          | 3232        | 3237         | rBV2     | 397789         | 691612        | 30.46%          | 5.809%        |

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ClientSampleId :  
SP-7W(0-2)A

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

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

Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

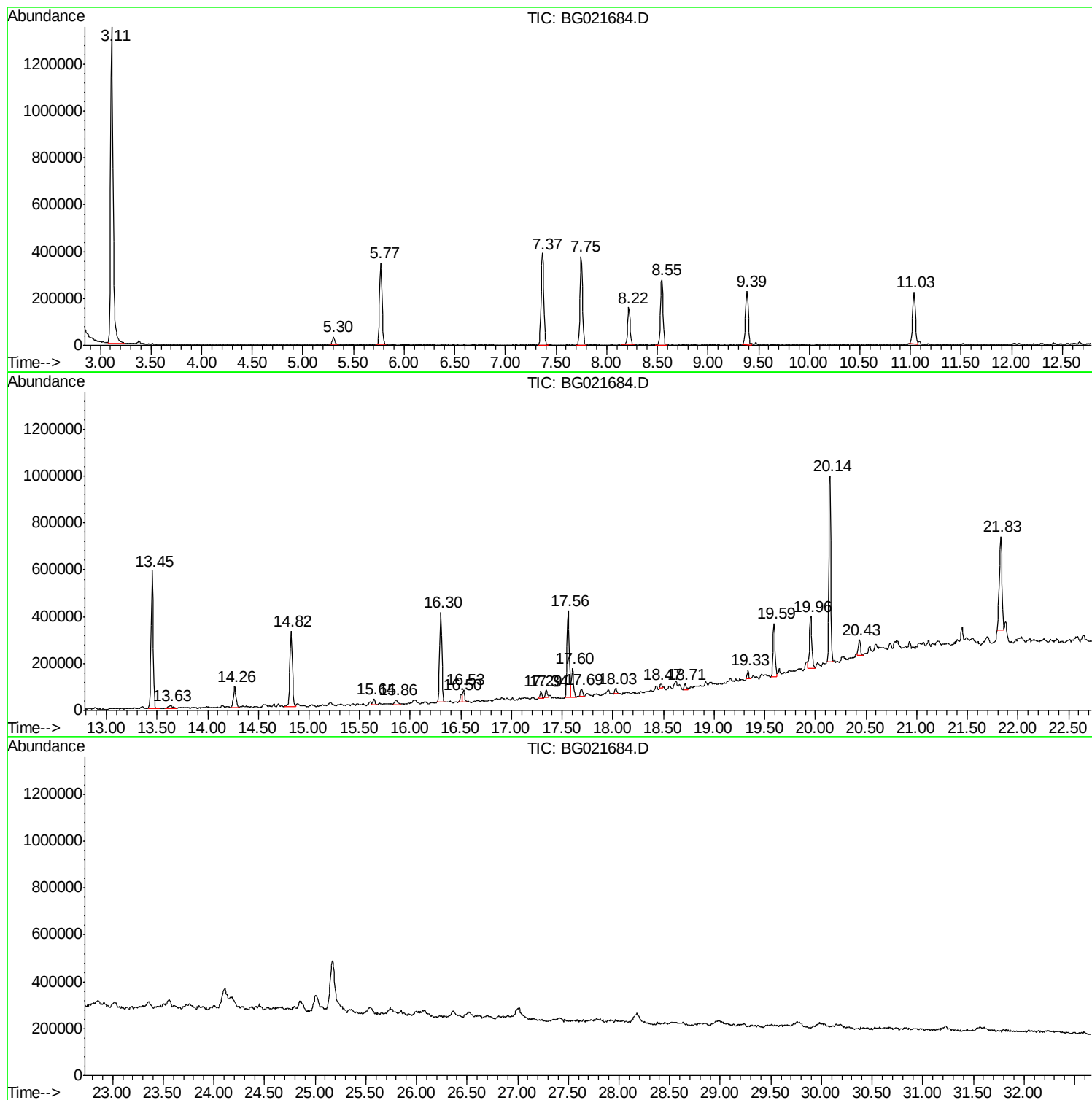
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Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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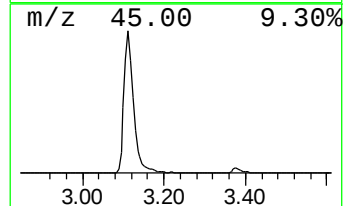
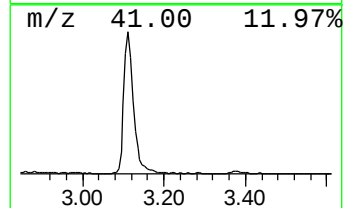
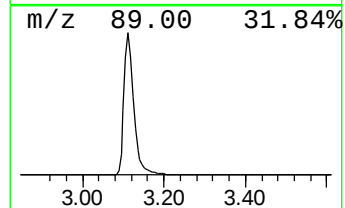
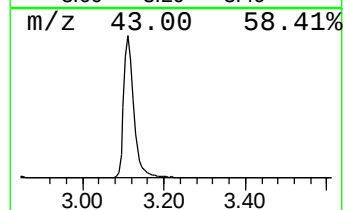
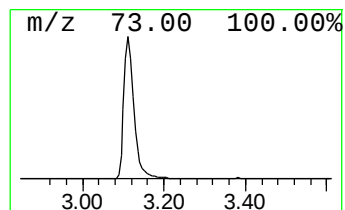
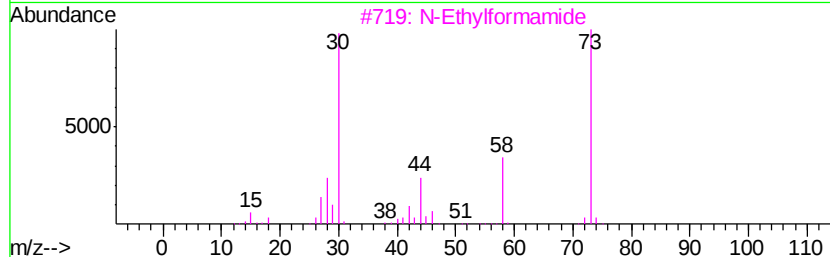
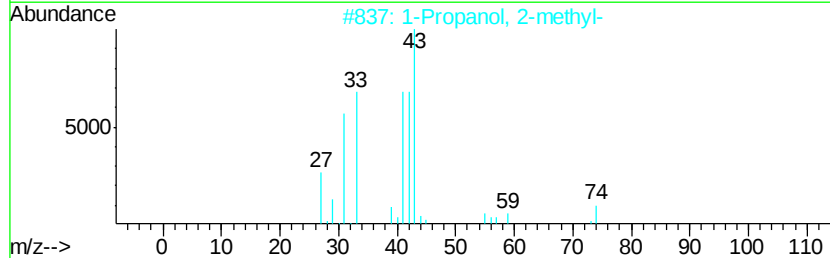
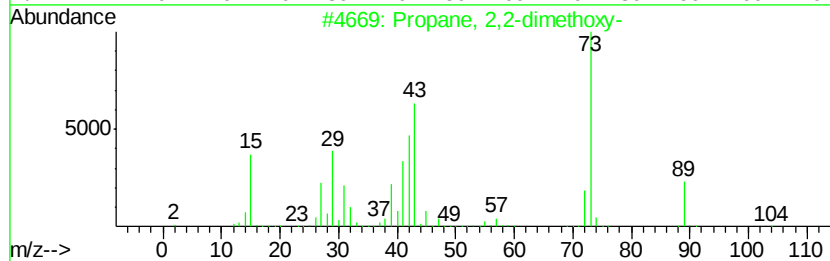
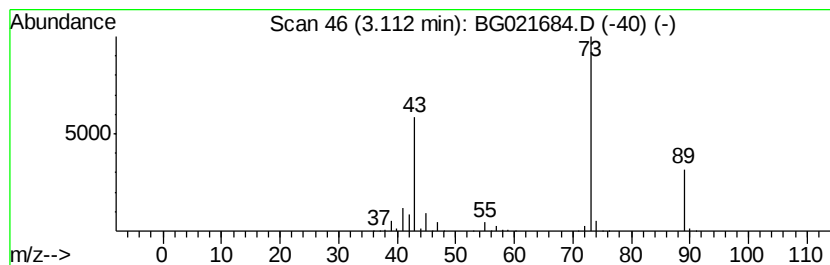
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Propane, 2,2-dimethoxy- Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 3.11 | 164.70 ng | 2270200 | 1,4-Dichlorobenzene-d4 | 8.22 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Propane, 2,2-dimethoxy-        | 104 | C5H12O2 | 000077-76-9 | 50   |
| 2    |    |   | 1-Propanol, 2-methyl-          | 74  | C4H10O  | 000078-83-1 | 9    |
| 3    |    |   | N-Ethylformamide               | 73  | C3H7NO  | 000627-45-2 | 9    |
| 4    |    |   | 1,3-Diaminoguanidine           | 89  | CH7N5   | 004364-78-7 | 9    |
| 5    |    |   | 2-Hydroxy-2-methylbutyric acid | 118 | C5H10O3 | 003739-30-8 | 9    |



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ClientSampleId :  
SP-7W(0-2)A

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

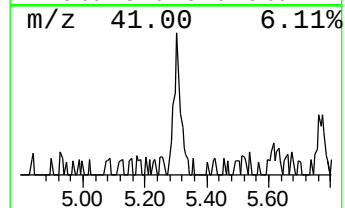
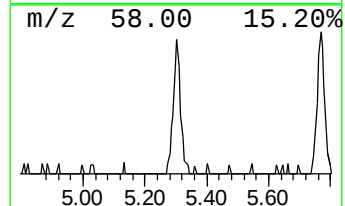
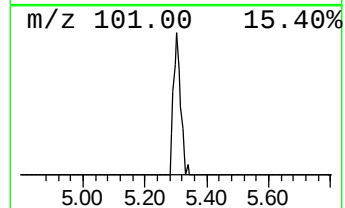
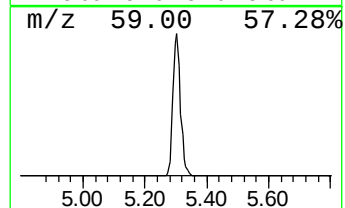
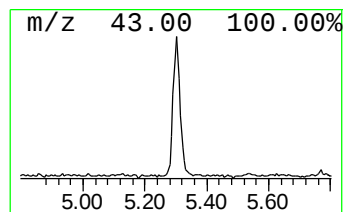
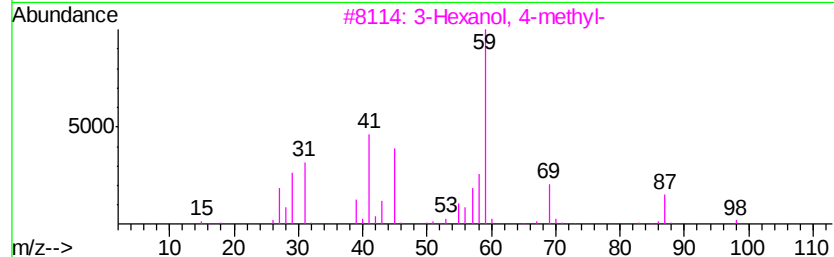
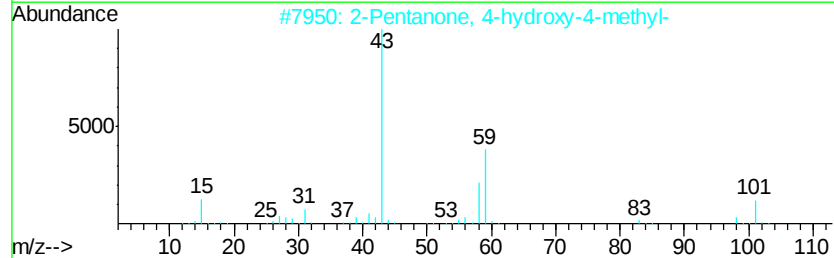
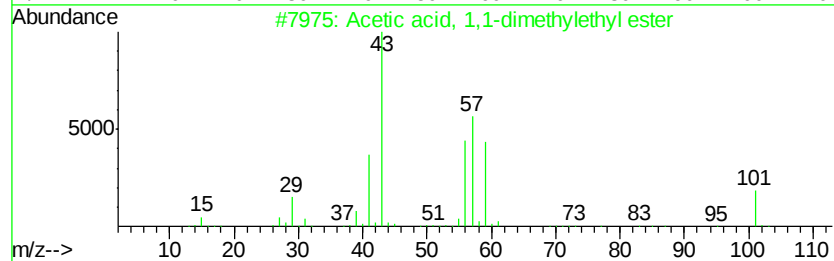
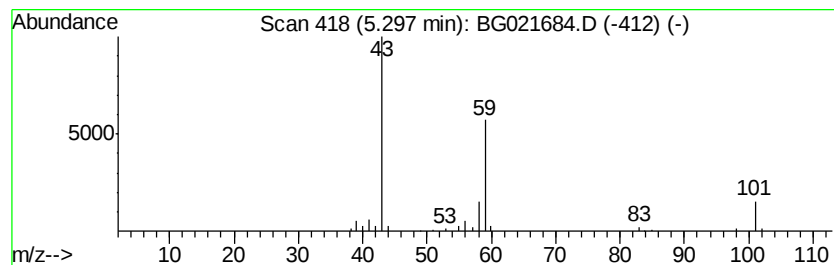
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Acetic acid, 1,1-dimethylet... Concentration Rank 4

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.30 | 3.94 ng | 54346 | 1,4-Dichlorobenzene-d4 | 8.22 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2  | 000540-88-5 | 50   |
| 2    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 50   |
| 3    |    |   | 3-Hexanol, 4-methyl-                | 116 | C7H16O   | 000615-29-2 | 33   |
| 4    |    |   | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 5    |    |   | Butyl aldoxime, 3-methyl-, syn-     | 101 | C5H11NO  | 005780-40-5 | 23   |



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Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7W(0-2)A

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

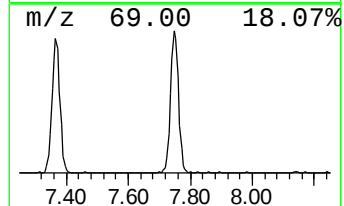
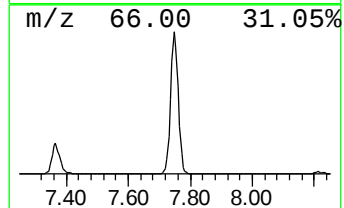
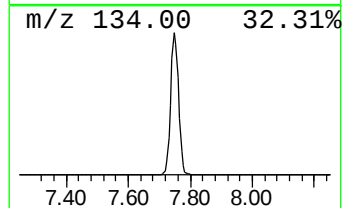
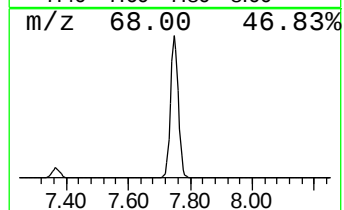
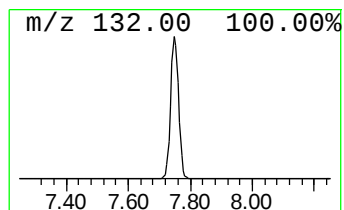
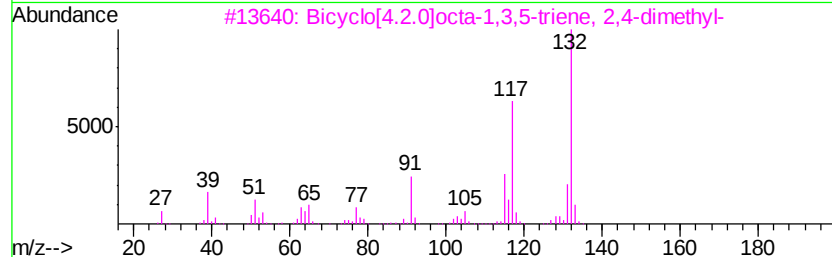
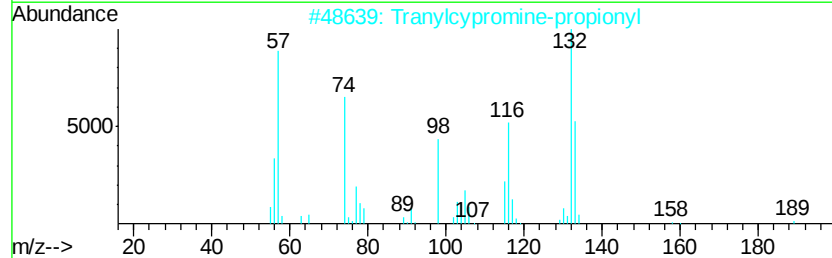
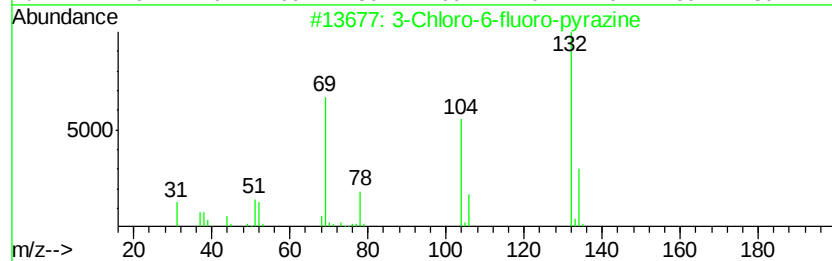
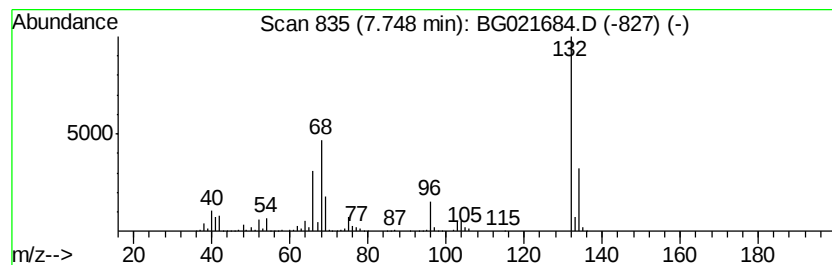
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown7.75 Concentration Rank 2

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 7.75 | 47.89 ng | 660182 | 1,4-Dichlorobenzene-d4 | 8.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 3    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 4    |    | Benzene, 1-ethenyl-3,5-dimethyl-    | 132 | C10H12    | 005379-20-4  | 9    |
| 5    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |



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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7W(0-2)A

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

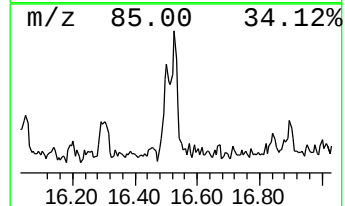
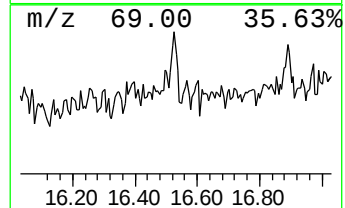
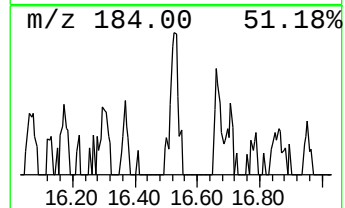
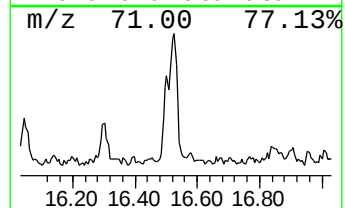
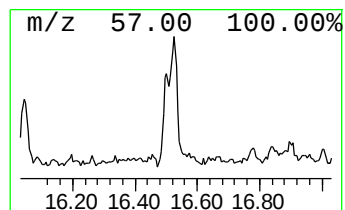
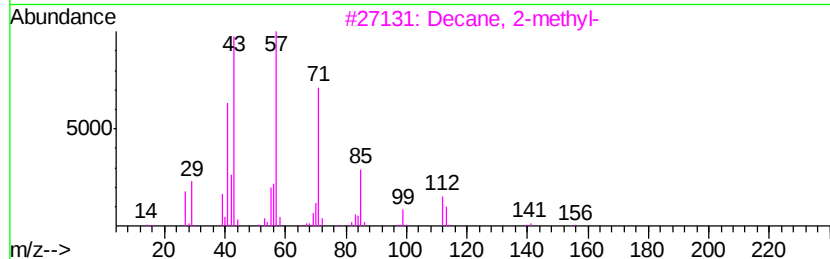
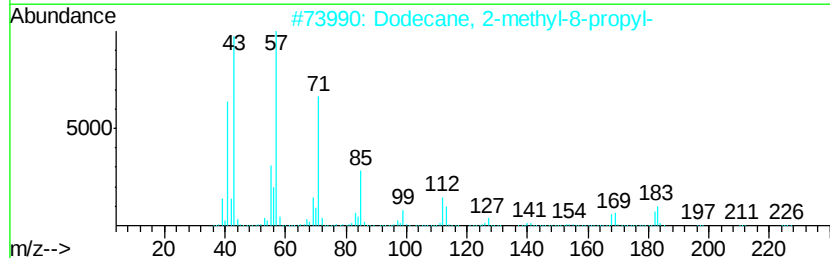
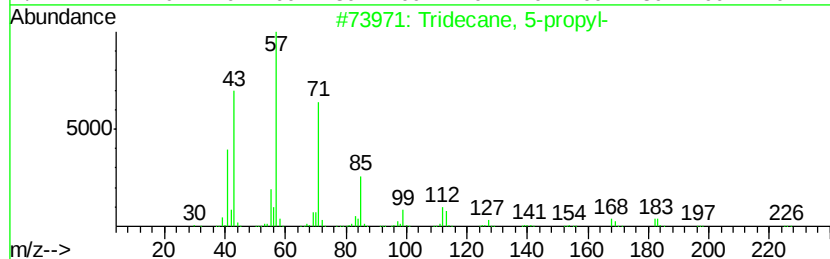
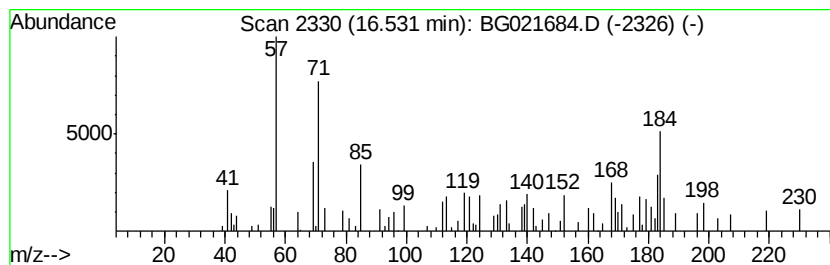
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Tridecane, 5-propyl- Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.53 | 2.51 ng | 73213 | Phenanthrene-d10 | 17.56 |

| Hit# of 5 | Tentative ID                       | MW  | MolForm  | CAS#        | Qual |
|-----------|------------------------------------|-----|----------|-------------|------|
| 1         | Tridecane, 5-propyl-               | 226 | C16H34   | 055045-11-9 | 53   |
| 2         | Dodecane, 2-methyl-8-propyl-       | 226 | C16H34   | 055045-07-3 | 53   |
| 3         | Decane, 2-methyl-                  | 156 | C11H24   | 006975-98-0 | 50   |
| 4         | 2-Bromo dodecane                   | 248 | C12H25Br | 013187-99-0 | 47   |
| 5         | Hexadecane, 2,6,11,15-tetramethyl- | 282 | C20H42   | 000504-44-9 | 47   |



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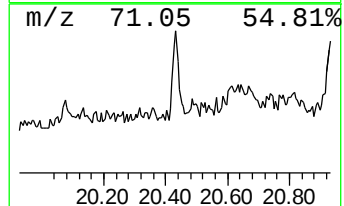
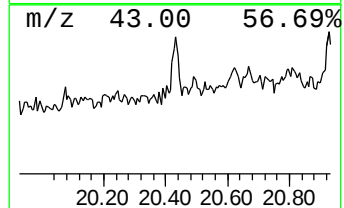
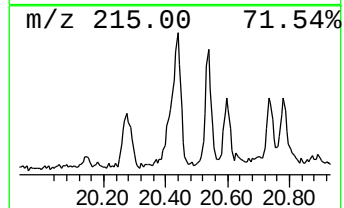
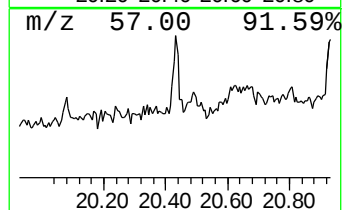
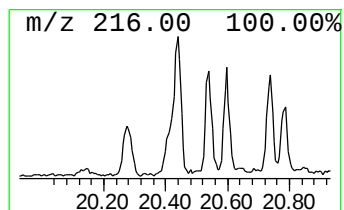
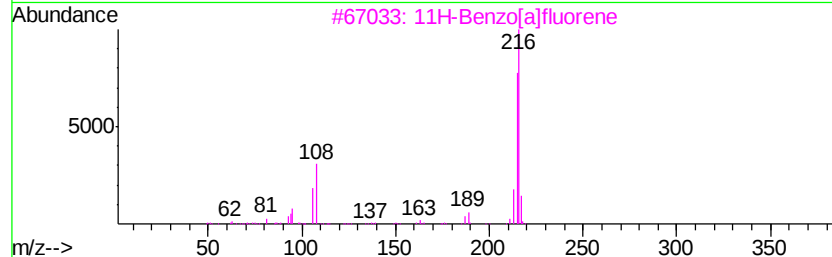
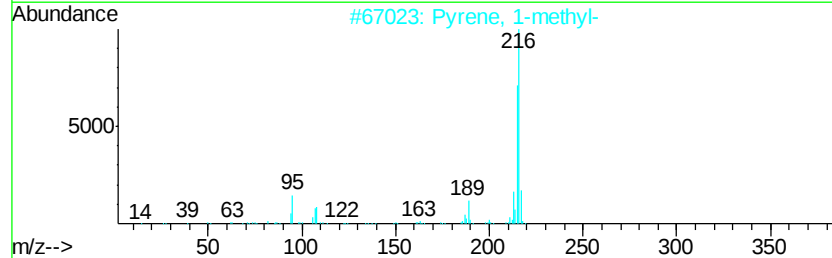
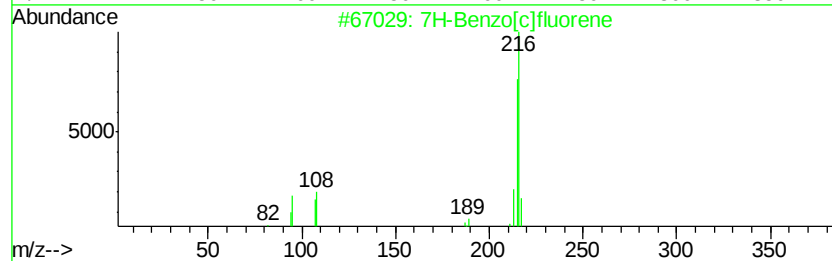
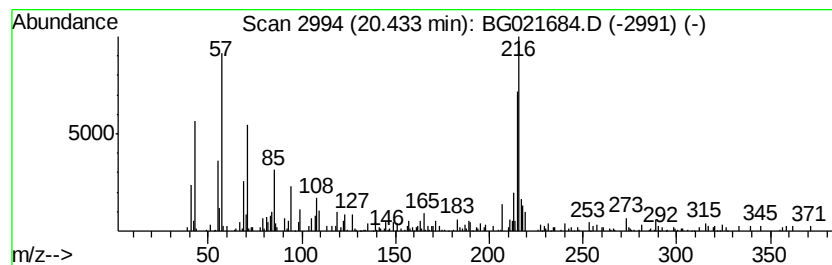
Instrument :  
BNA\_G  
ClientSampleId :  
SP-7W(0-2)A

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 7H-Benzo[c]fluorene Concentration Rank 5

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|-------|------------------|-------------|------|
| 20.43     | 2.52 ng                             | 87094 | Chrysene-d12     | 21.83       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#        | Qual |
| 1         | 7H-Benzo[c]fluorene                 | 216   | C17H12           | 000205-12-9 | 53   |
| 2         | Pyrene, 1-methyl-                   | 216   | C17H12           | 002381-21-7 | 53   |
| 3         | 11H-Benzo[a]fluorene                | 216   | C17H12           | 000238-84-6 | 49   |
| 4         | 11H-Benzo[b]fluorene                | 216   | C17H12           | 000243-17-4 | 46   |
| 5         | 1,3,5-Triazine-2,4,6-triamine, N... | 216   | C10H12N6         | 046731-79-7 | 46   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041416\  
Data File : BG021684.D  
Acq On : 15 Apr 2016 12:40  
Operator : UM/SJ  
Sample : H2412-04 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7W(0-2)A

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.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 |
| Propane, 2,2-dime... | 3.11  | 164.7   | ng    | 2270200  | 1                     | 8.22  | 275683 | 20.0 |
| Acetic acid, 1,1-... | 5.30  | 3.9     | ng    | 54346    | 1                     | 8.22  | 275683 | 20.0 |
| unknown7.75          | 7.75  | 47.9    | ng    | 660182   | 1                     | 8.22  | 275683 | 20.0 |
| Tridecane, 5-propyl- | 16.53 | 2.5     | ng    | 73213    | 4                     | 17.56 | 583227 | 20.0 |
| 7H-Benzo[c]fluorene  | 20.43 | 2.5     | ng    | 87094    | 5                     | 21.83 | 691612 | 20.0 |