

Data Path : Z:\HPCHEM1\BNA G\DATA\BG120815\  
 Data File : BG020018.D  
 Acq On : 8 Dec 2015 15:05  
 Operator : UM/SJ  
 Sample : G4684-06  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 UST-5

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

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG120215.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         | 2.992       | 20            | 26          | 47           | rVB      | 1408581        | 2112957       | 100.00%         | 21.858%       |
| 2         | 5.184       | 393           | 399         | 409          | rBV      | 71686          | 109841        | 5.20%           | 1.136%        |
| 3         | 5.660       | 473           | 480         | 489          | rVB      | 322034         | 509793        | 24.13%          | 5.274%        |
| 4         | 7.258       | 744           | 752         | 763          | rBV      | 339093         | 592520        | 28.04%          | 6.129%        |
| 5         | 7.640       | 809           | 817         | 825          | rBV      | 339317         | 570346        | 26.99%          | 5.900%        |
| 6         | 8.110       | 891           | 897         | 904          | rBV      | 61084          | 101773        | 4.82%           | 1.053%        |
| 7         | 8.439       | 945           | 953         | 960          | rBV      | 241365         | 415492        | 19.66%          | 4.298%        |
| 8         | 9.279       | 1088          | 1096        | 1104         | rBV      | 207814         | 365763        | 17.31%          | 3.784%        |
| 9         | 10.930      | 1369          | 1377        | 1386         | rBB      | 88470          | 154475        | 7.31%           | 1.598%        |
| 10        | 13.368      | 1784          | 1792        | 1799         | rBV      | 571644         | 886576        | 41.96%          | 9.171%        |
| 11        | 14.185      | 1923          | 1931        | 1939         | rBV      | 99025          | 138407        | 6.55%           | 1.432%        |
| 12        | 14.743      | 2019          | 2026        | 2033         | rVB2     | 147729         | 238554        | 11.29%          | 2.468%        |
| 13        | 16.224      | 2268          | 2278        | 2288         | rBV      | 516831         | 784663        | 37.14%          | 8.117%        |
| 14        | 17.481      | 2486          | 2492        | 2498         | rBV2     | 199608         | 301731        | 14.28%          | 3.121%        |
| 15        | 18.351      | 2635          | 2640        | 2646         | rBV2     | 40923          | 58751         | 2.78%           | 0.608%        |
| 16        | 19.620      | 2851          | 2856        | 2860         | rBV2     | 15771          | 22299         | 1.06%           | 0.231%        |
| 17        | 20.084      | 2929          | 2935        | 2940         | rBV      | 1143513        | 1455269       | 68.87%          | 15.054%       |
| 18        | 21.382      | 3151          | 3156        | 3165         | rBV      | 52431          | 83924         | 3.97%           | 0.868%        |
| 19        | 21.753      | 3212          | 3219        | 3225         | rBV      | 248754         | 400080        | 18.93%          | 4.139%        |
| 20        | 25.037      | 3766          | 3778        | 3788         | rBV2     | 125340         | 363496        | 17.20%          | 3.760%        |

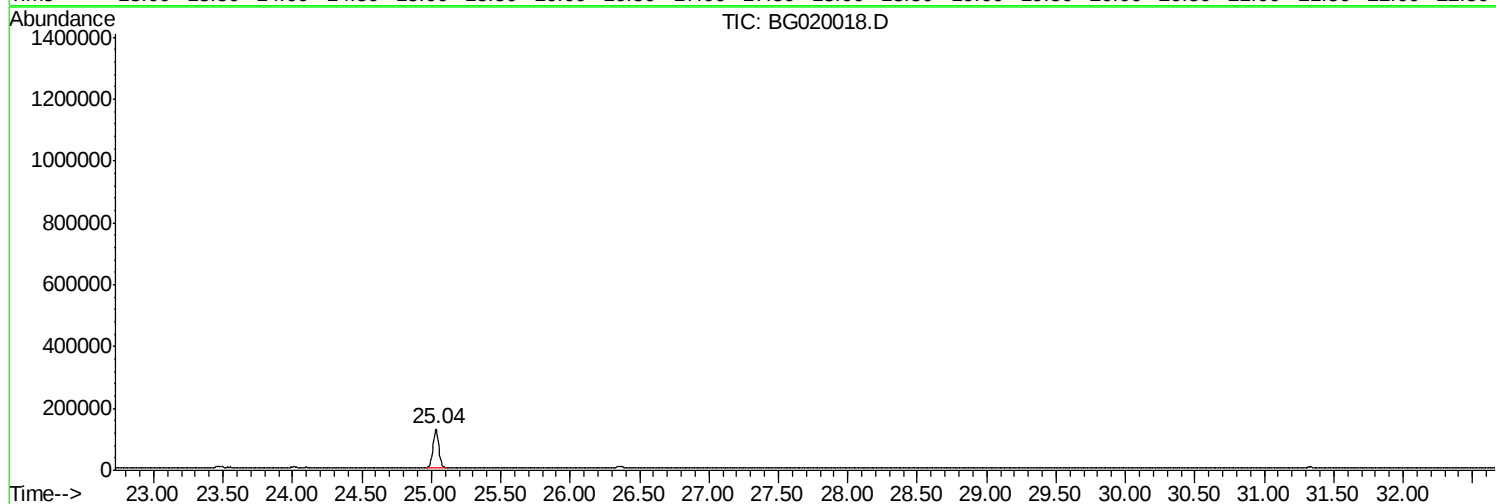
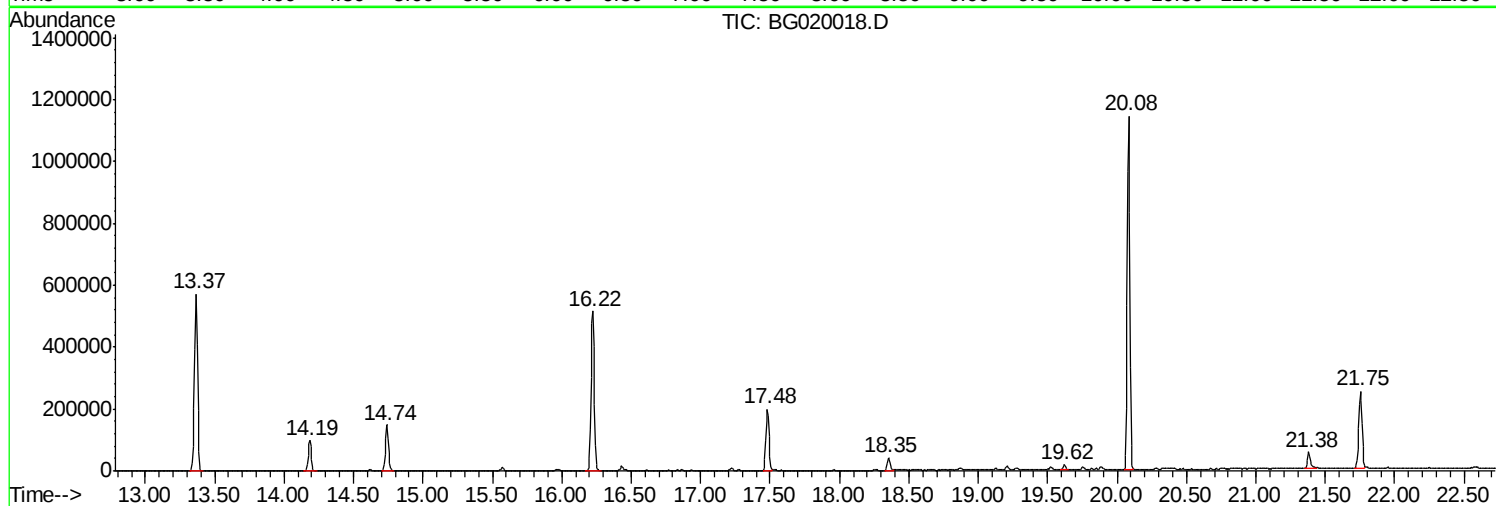
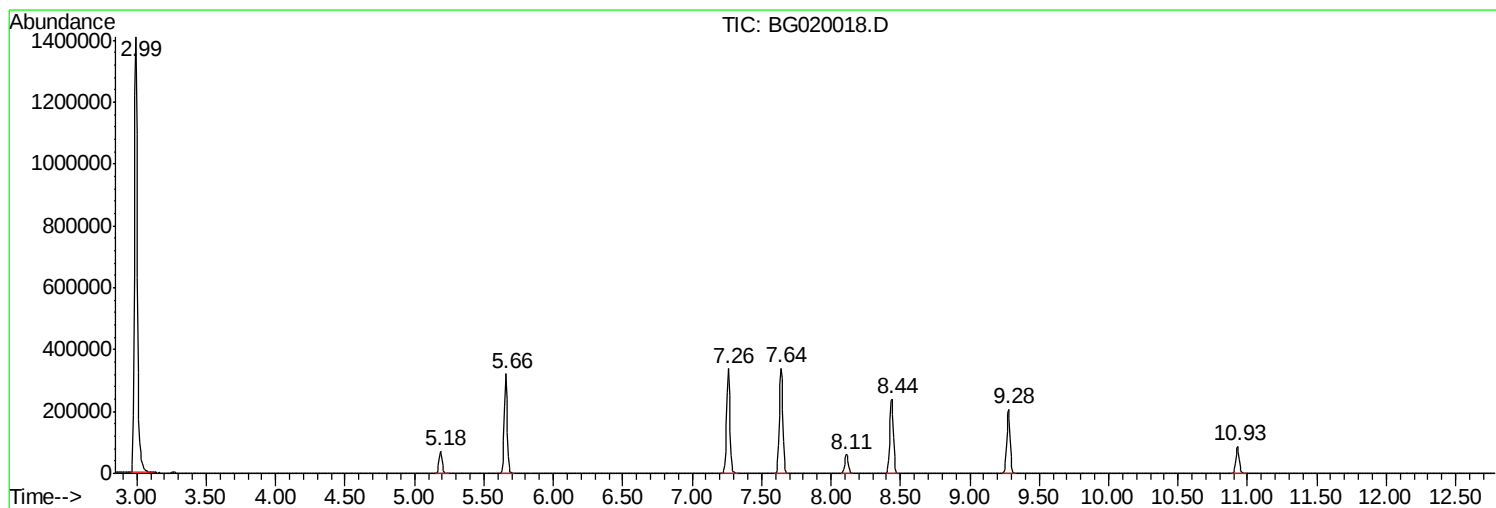
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BNA\_G  
ClientSampleId :  
UST-5

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.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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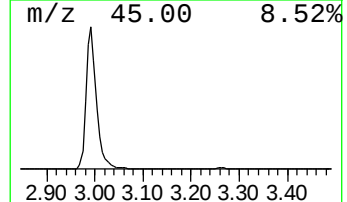
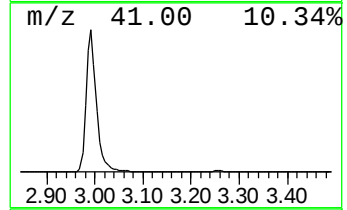
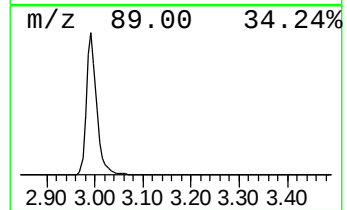
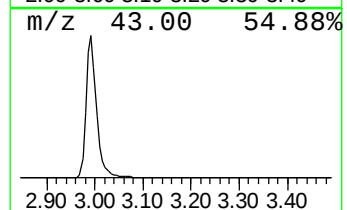
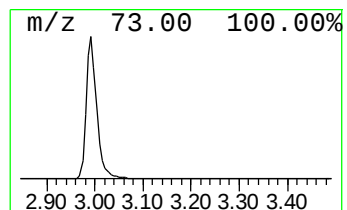
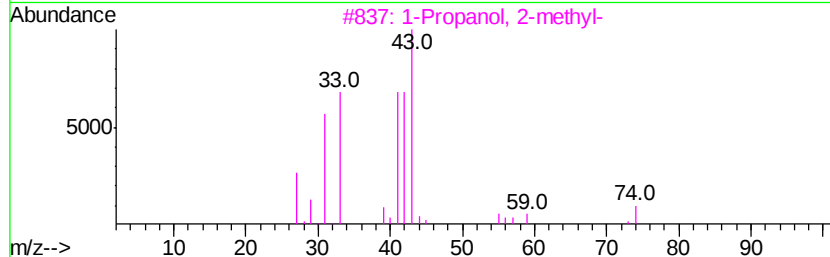
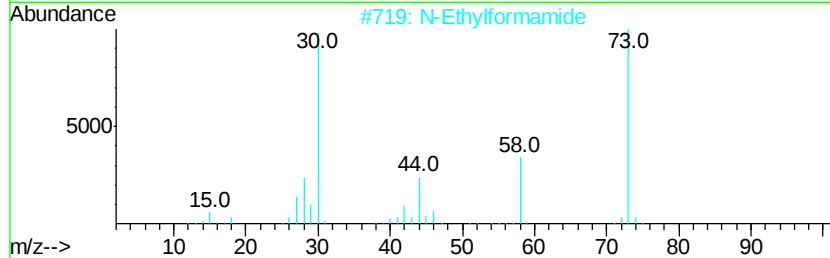
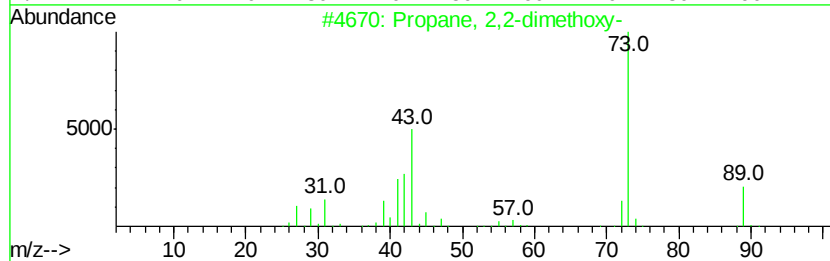
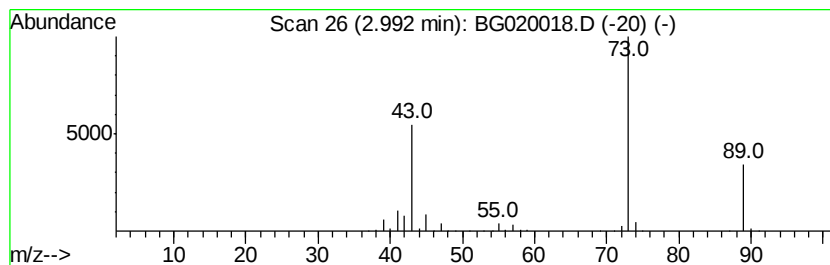
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 2.99 | 415.23 ng | 2112960 | 1,4-Dichlorobenzene-d4 | 8.11 |

| Hit# | of | Tentative ID                        | MW  | MolForm       | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------------|--------------|------|
| 1    | 5  | Propane, 2,2-dimethoxy-             | 104 | C5H12O2       | 000077-76-9  | 56   |
| 2    |    | N-Ethylformamide                    | 73  | C3H7NO        | 000627-45-2  | 9    |
| 3    |    | 1-Propanol, 2-methyl-               | 74  | C4H10O        | 000078-83-1  | 9    |
| 4    |    | 1,3-Diaminoquanidine                | 89  | CH7N5         | 004364-78-7  | 9    |
| 5    |    | 1,3-Dioxolane, 2-(3-bromo-5,5,5-... | 352 | C10H16BrCl3O2 | 1000115-31-4 | 9    |



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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
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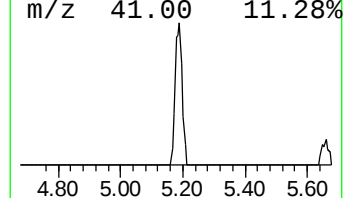
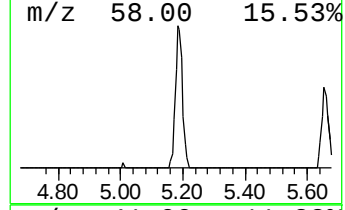
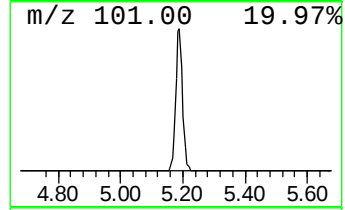
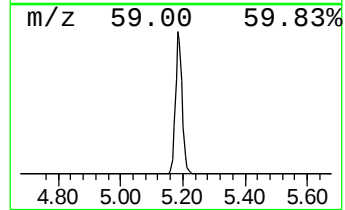
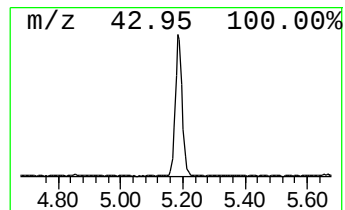
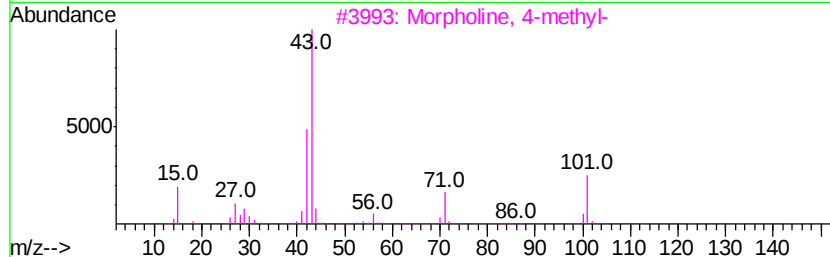
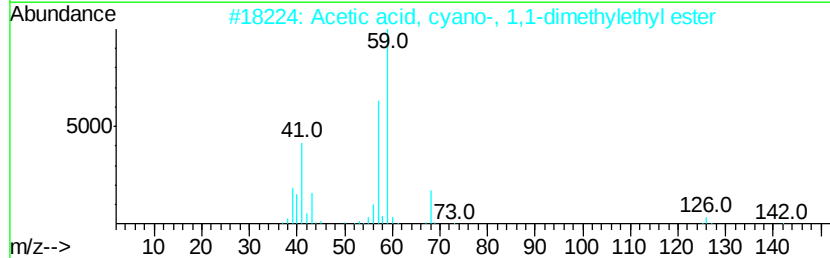
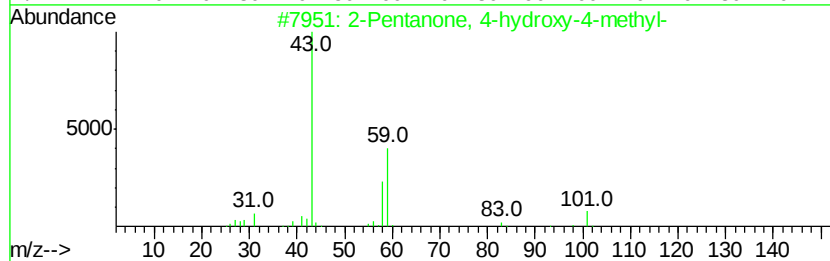
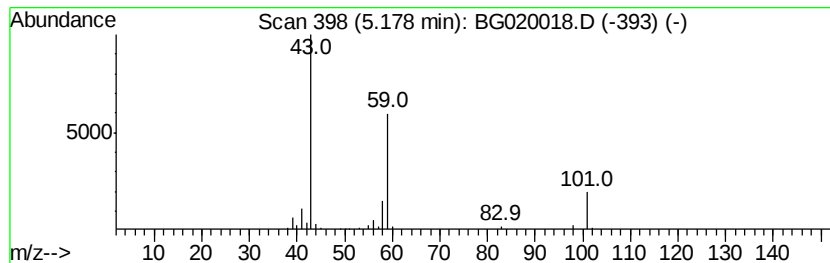
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown5.18 Concentration Rank 4

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.18 | 21.59 ng | 109841 | 1,4-Dichlorobenzene-d4 | 8.11 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 47   |
| 2    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 3    |    | Morpholine, 4-methyl-                | 101 | C5H11NO  | 000109-02-4 | 9    |
| 4    |    | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 9    |
| 5    |    | Acetone                              | 58  | C3H6O    | 000067-64-1 | 9    |



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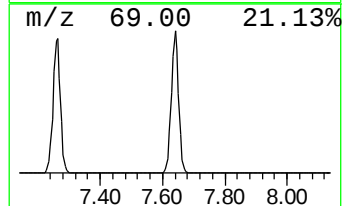
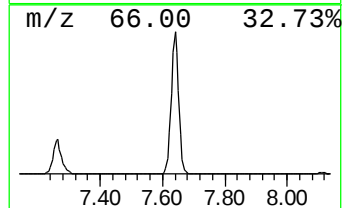
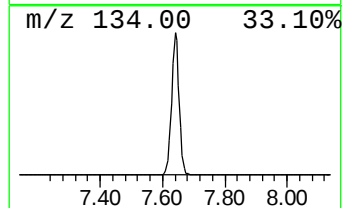
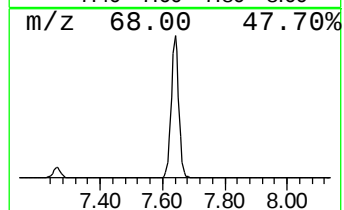
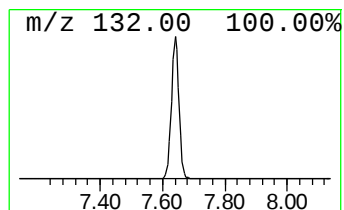
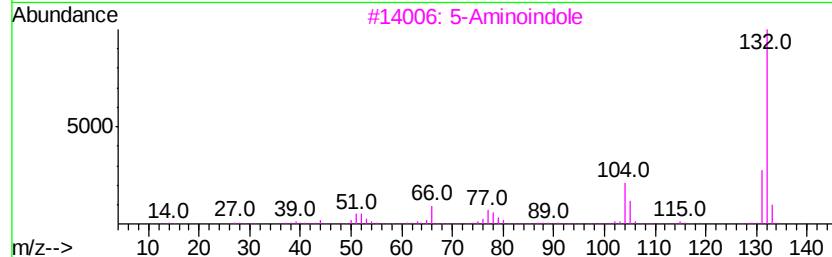
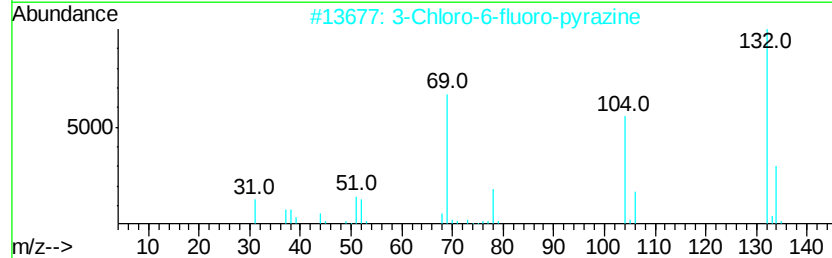
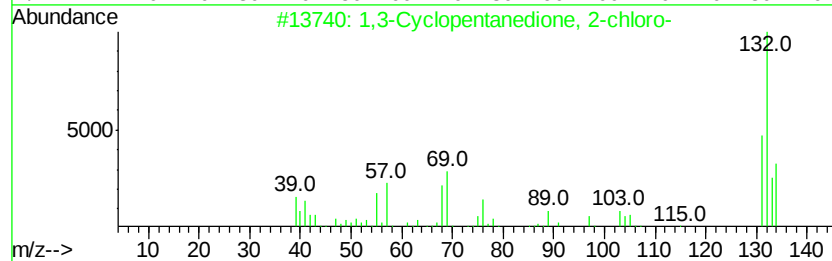
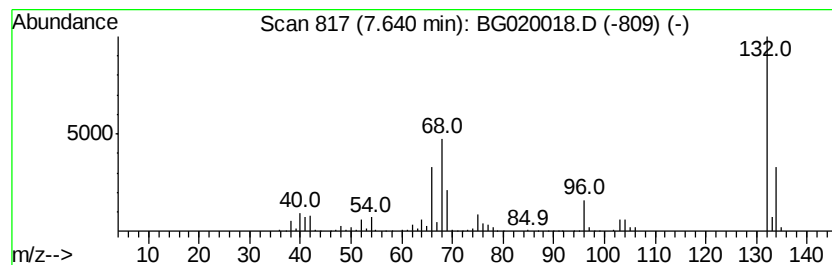
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown7.64 Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD       | R.T. |
|------|-----------|--------|------------------------|------|
| 7.64 | 112.08 ng | 570346 | 1,4-Dichlorobenzene-d4 | 8.11 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1,3-Cyclopentanedione, 2-chloro- | 132 | C5H5ClO2  | 014203-19-1  | 35   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 22   |
| 4    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 22   |
| 5    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 12   |



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Instrument :  
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ClientSampleId :  
UST-5

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
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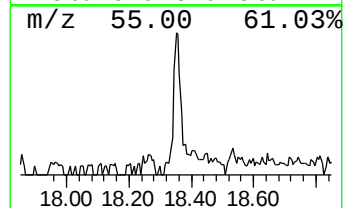
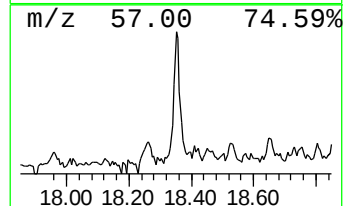
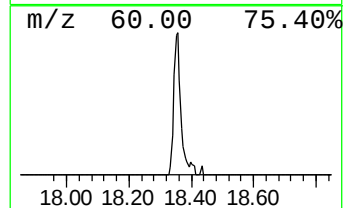
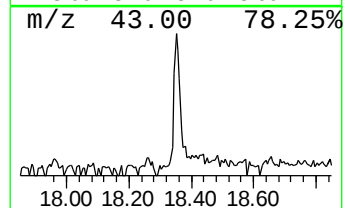
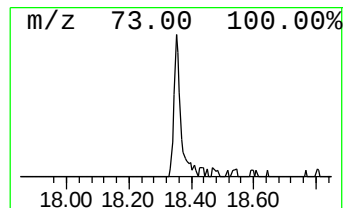
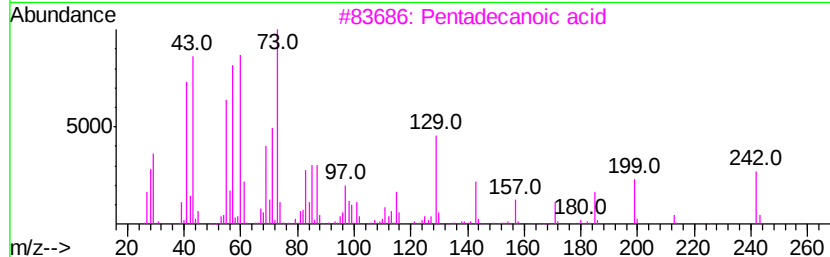
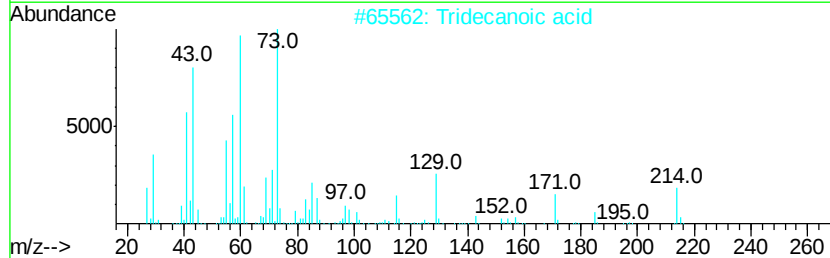
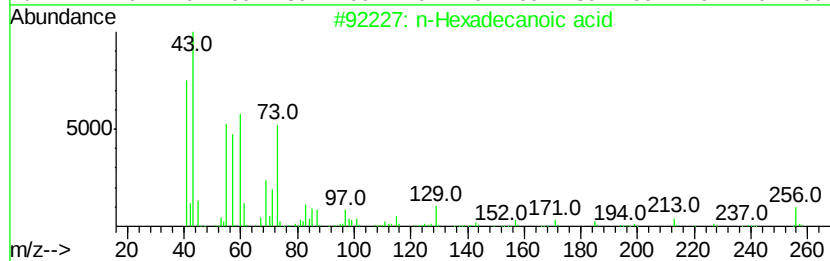
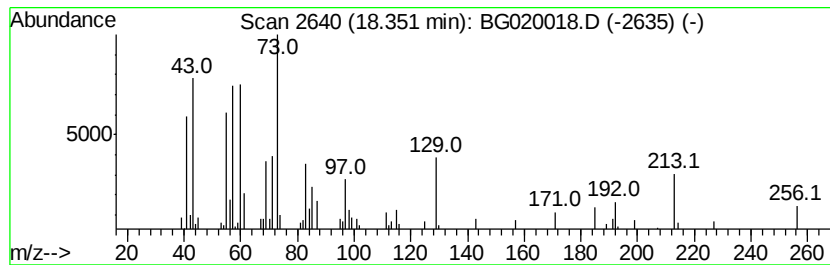
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Peak Number 5 n-Hexadecanoic acid Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 18.35 | 3.89 ng | 58751 | Phenanthrene-d10 | 17.48 |

| Hit# of 5 | Tentative ID         | MW  | MolForm  | CAS#         | Qual |
|-----------|----------------------|-----|----------|--------------|------|
| 1         | n-Hexadecanoic acid  | 256 | C16H32O2 | 000057-10-3  | 95   |
| 2         | Tridecanoic acid     | 214 | C13H26O2 | 000638-53-9  | 81   |
| 3         | Pentadecanoic acid   | 242 | C15H30O2 | 001002-84-2  | 72   |
| 4         | Tetradecanoic acid   | 228 | C14H28O2 | 000544-63-8  | 64   |
| 5         | 5-Acetoxypentadecane | 270 | C17H34O2 | 1000245-62-3 | 14   |



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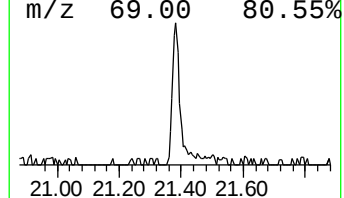
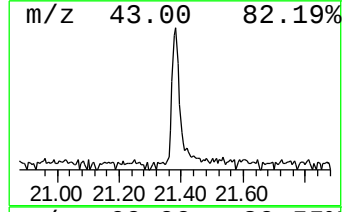
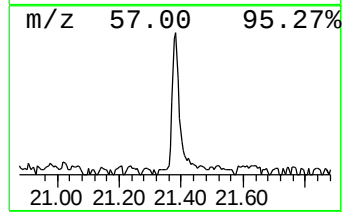
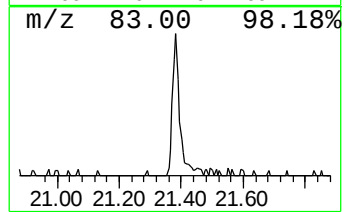
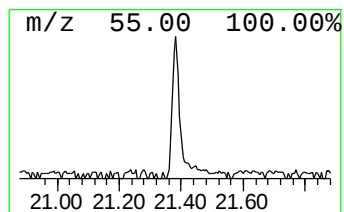
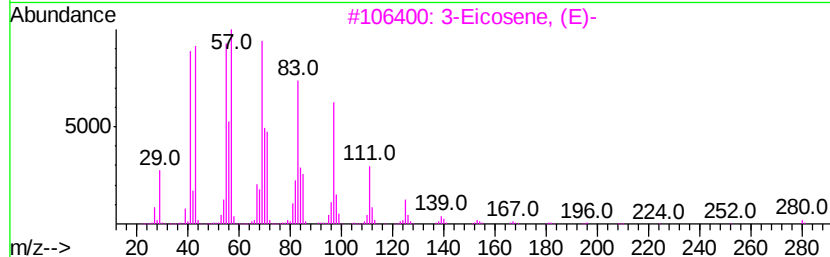
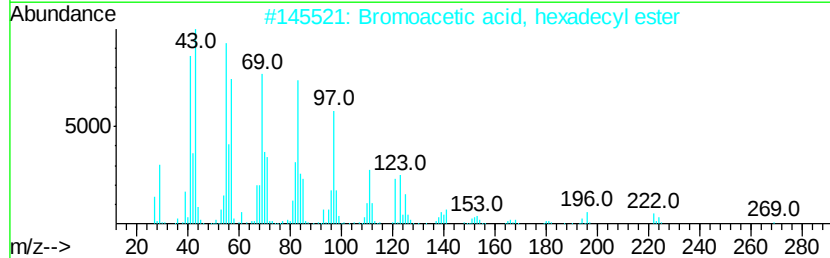
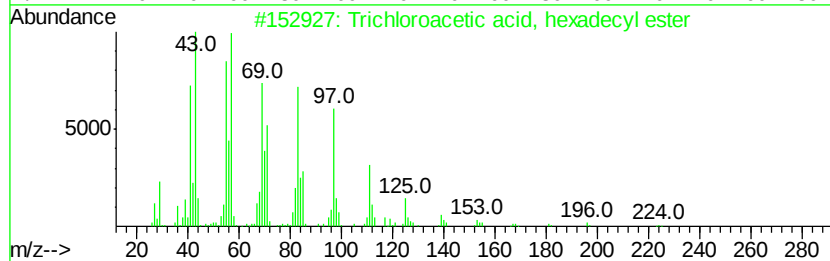
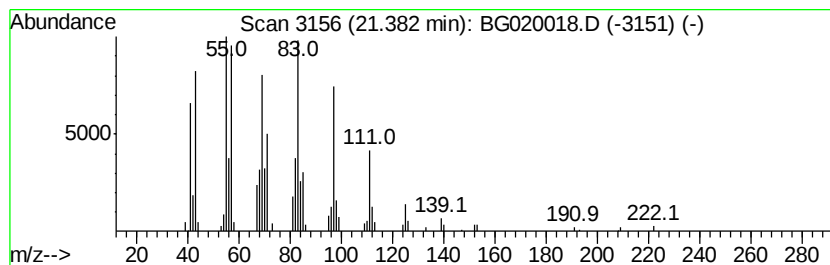
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Trichloroacetic acid, hexad... Concentration Rank 5

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 21.38 | 4.20 ng | 83924 | Chrysene-d12     | 21.75 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-------------|-------------|------|
| 1    |    |   | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 87   |
| 2    |    |   | Bromoacetic acid, hexadecyl ester   | 362 | C18H35BrO2  | 005454-48-8 | 86   |
| 3    |    |   | 3-Eicosene, (E)-                    | 280 | C20H40      | 074685-33-9 | 80   |
| 4    |    |   | 5-Eicosene, (E)-                    | 280 | C20H40      | 074685-30-6 | 76   |
| 5    |    |   | 1-Eicosanol                         | 298 | C20H42O     | 000629-96-9 | 76   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG120815\  
Data File : BG020018.D  
Acq On : 8 Dec 2015 15:05  
Operator : UM/SJ  
Sample : G4684-06  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
UST-5

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG120215.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... | 2.99  | 415.2   | ng    | 2112960  | 1                     | 8.11  | 101773 | 20.0 |
| unknown5.18          | 5.18  | 21.6    | ng    | 109841   | 1                     | 8.11  | 101773 | 20.0 |
| unknown7.64          | 7.64  | 112.1   | ng    | 570346   | 1                     | 8.11  | 101773 | 20.0 |
| n-Hexadecanoic acid  | 18.35 | 3.9     | ng    | 58751    | 4                     | 17.48 | 301731 | 20.0 |
| Trichloroacetic a... | 21.38 | 4.2     | ng    | 83924    | 5                     | 21.75 | 400080 | 20.0 |