

Data Path : V:\HPCHEM1\BNA F\DATA\BF121515\  
 Data File : BF083808.D  
 Acq On : 15 Dec 2015 10:06  
 Operator : UM/IZ  
 Sample : G4761-05  
 Misc :  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EAST-SIDEWALL

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\_F\METHODS\8270-BF121315.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         | 2.190       | 7             | 9           | 18           | rVB      | 38185          | 54488         | 1.52%           | 0.190%        |
| 2         | 5.093       | 260           | 263         | 270          | rBB      | 492714         | 704596        | 19.69%          | 2.463%        |
| 3         | 5.516       | 296           | 300         | 302          | rBV      | 2537805        | 3187078       | 89.05%          | 11.141%       |
| 4         | 6.487       | 382           | 385         | 386          | rBV2     | 52449          | 98926         | 2.76%           | 0.346%        |
| 5         | 6.533       | 386           | 389         | 392          | rVB      | 2310243        | 2754840       | 76.98%          | 9.630%        |
| 6         | 6.670       | 398           | 401         | 403          | rVB      | 2918009        | 3012944       | 84.19%          | 10.532%       |
| 7         | 6.899       | 418           | 421         | 423          | rBV      | 796240         | 650181        | 18.17%          | 2.273%        |
| 8         | 7.059       | 432           | 435         | 437          | rVB      | 2704375        | 2472782       | 69.09%          | 8.644%        |
| 9         | 7.459       | 467           | 470         | 473          | rVB      | 1699582        | 1827859       | 51.07%          | 6.390%        |
| 10        | 7.562       | 475           | 479         | 483          | rVB      | 73896          | 105013        | 2.93%           | 0.367%        |
| 11        | 8.087       | 523           | 525         | 528          | rVB      | 67665          | 71032         | 1.98%           | 0.248%        |
| 12        | 8.179       | 531           | 533         | 536          | rBV      | 748857         | 811999        | 22.69%          | 2.839%        |
| 13        | 9.265       | 625           | 628         | 630          | rBV      | 3546329        | 3578868       | 100.00%         | 12.511%       |
| 14        | 9.653       | 659           | 662         | 664          | rBV      | 945683         | 782482        | 21.86%          | 2.735%        |
| 15        | 9.882       | 679           | 682         | 684          | rBV2     | 65066          | 68177         | 1.90%           | 0.238%        |
| 16        | 9.939       | 684           | 687         | 689          | rVB      | 1069156        | 974157        | 27.22%          | 3.405%        |
| 17        | 10.373      | 724           | 725         | 727          | rVB      | 102983         | 93756         | 2.62%           | 0.328%        |
| 18        | 10.590      | 741           | 744         | 748          | rBV      | 29540          | 59207         | 1.65%           | 0.207%        |
| 19        | 10.728      | 753           | 756         | 758          | rBV      | 1904192        | 2170026       | 60.63%          | 7.586%        |
| 20        | 10.853      | 765           | 767         | 771          | rBV      | 72665          | 126574        | 3.54%           | 0.442%        |
| 21        | 11.299      | 804           | 806         | 807          | rBV      | 66257          | 59666         | 1.67%           | 0.209%        |
| 22        | 11.413      | 814           | 816         | 819          | rVB      | 830303         | 819593        | 22.90%          | 2.865%        |
| 23        | 12.831      | 938           | 940         | 943          | rBV2     | 45287          | 52946         | 1.48%           | 0.185%        |
| 24        | 13.002      | 952           | 955         | 957          | rBV      | 2620322        | 2417635       | 67.55%          | 8.451%        |
| 25        | 13.905      | 1031          | 1034        | 1038         | rBV2     | 75726          | 129568        | 3.62%           | 0.453%        |
| 26        | 14.042      | 1044          | 1046        | 1049         | rBV      | 541820         | 691410        | 19.32%          | 2.417%        |
| 27        | 15.482      | 1169          | 1172        | 1175         | rBV      | 485197         | 647492        | 18.09%          | 2.263%        |
| 28        | 16.191      | 1232          | 1234        | 1238         | rVB4     | 24786          | 51514         | 1.44%           | 0.180%        |
| 29        | 16.614      | 1269          | 1271        | 1279         | rVB7     | 31850          | 95534         | 2.67%           | 0.334%        |
| 30        | 17.185      | 1318          | 1321        | 1324         | rVB3     | 17179          | 35956         | 1.00%           | 0.126%        |

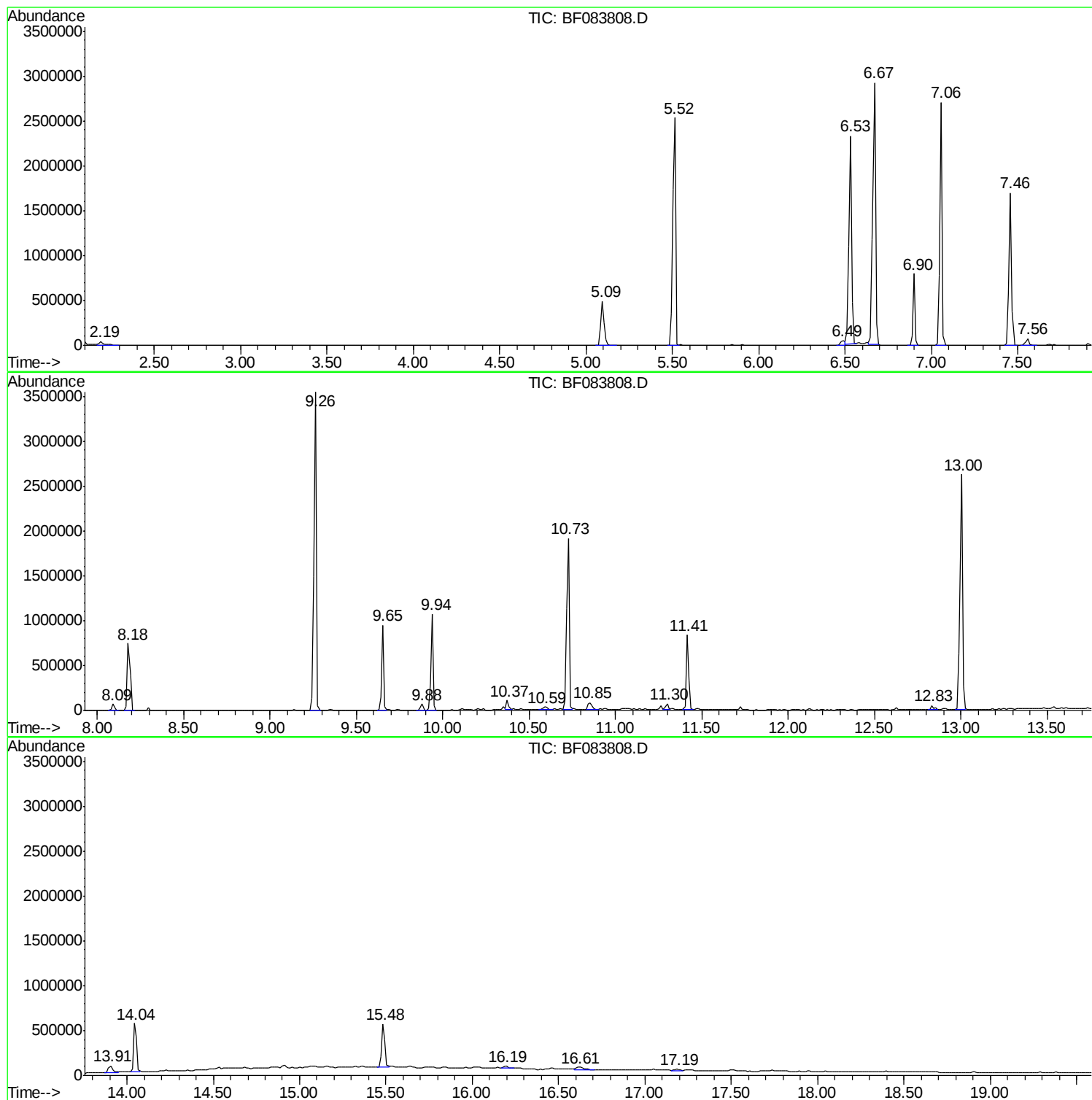
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BNA\_F  
ClientSampleId :  
EAST-SIDEWALL

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121315.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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BNA\_F  
ClientSampled :  
EAST-SIDEWALL

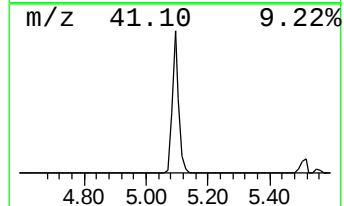
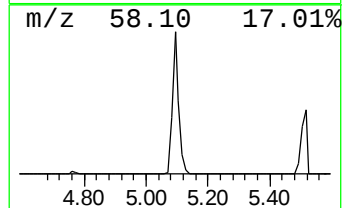
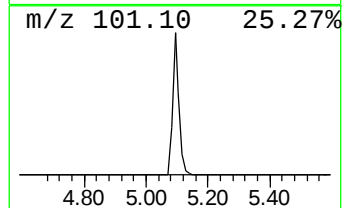
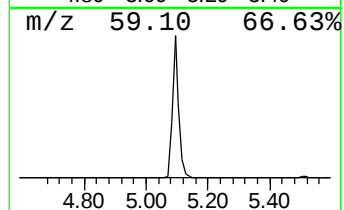
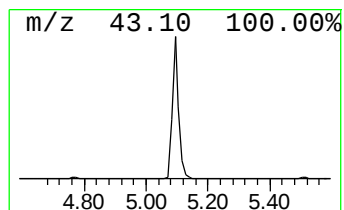
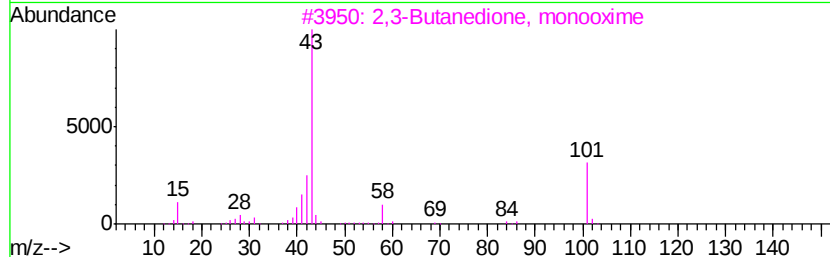
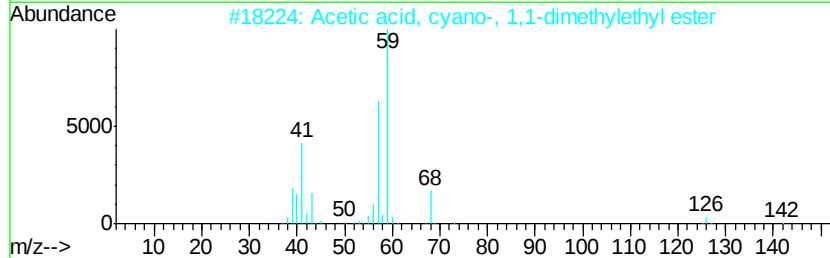
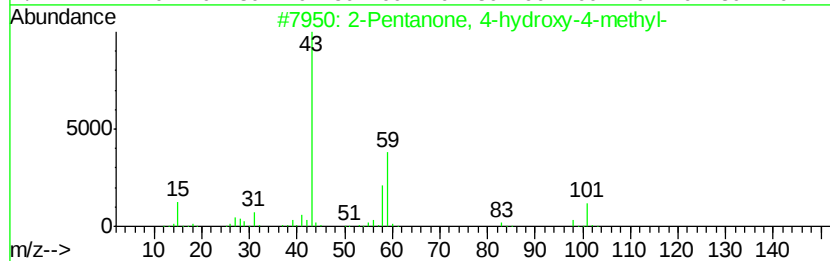
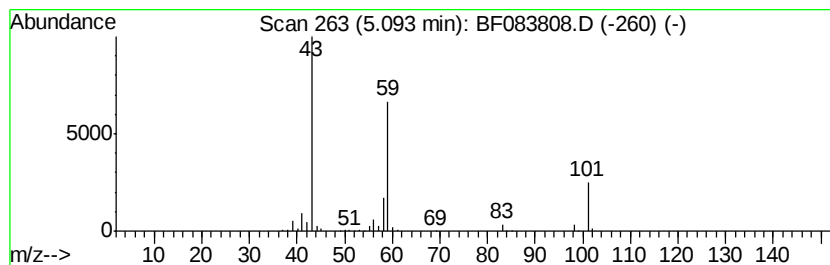
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.09 | 21.67 ng | 704596 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    |   | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 3    |    |   | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 17   |
| 4    |    |   | 5-Hexen-2-one                        | 98  | C6H10O   | 000109-49-9 | 9    |
| 5    |    |   | Butane, 1-ethoxy-                    | 102 | C6H14O   | 000628-81-9 | 9    |



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EAST-SIDEWALL

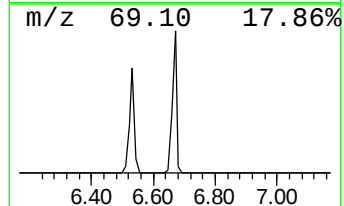
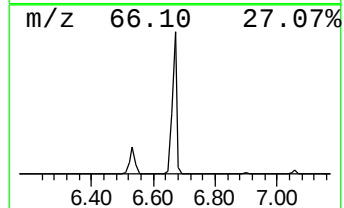
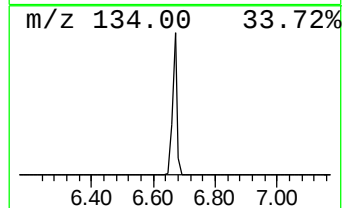
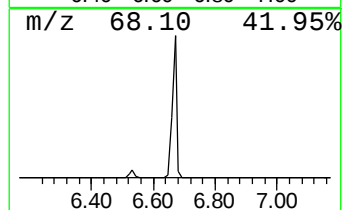
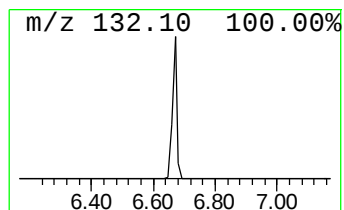
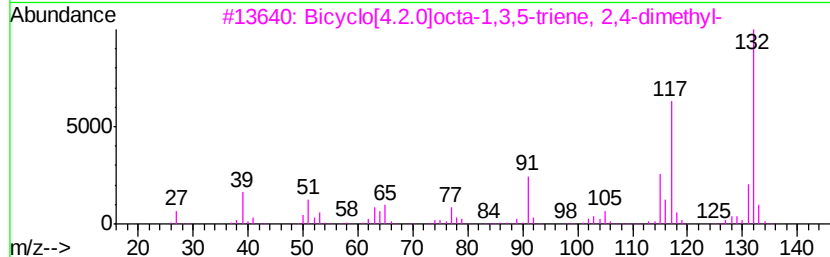
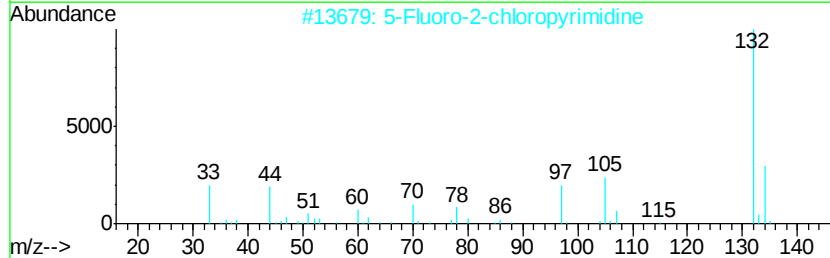
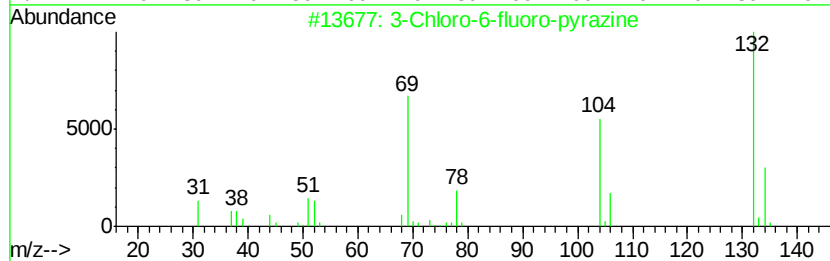
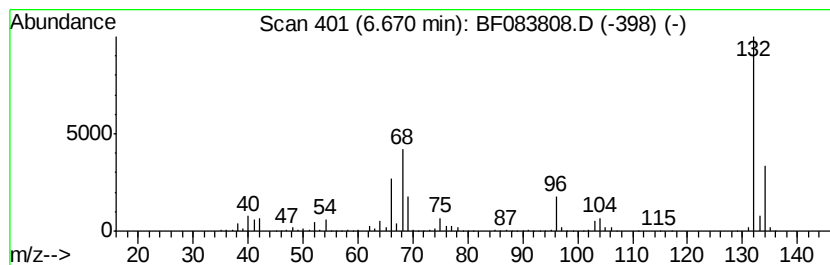
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TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.67 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.67 | 92.68 ng | 3012940 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 3    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 4    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-59-9  | 9    |



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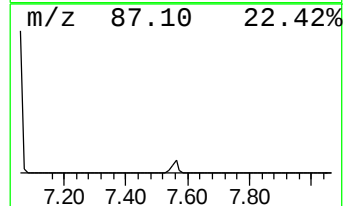
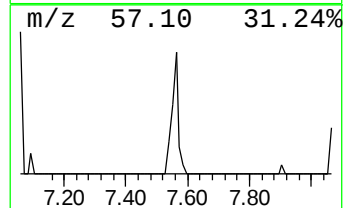
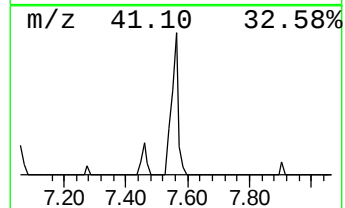
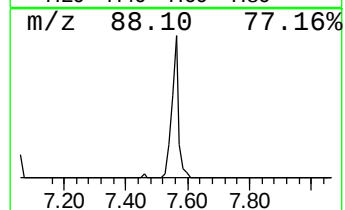
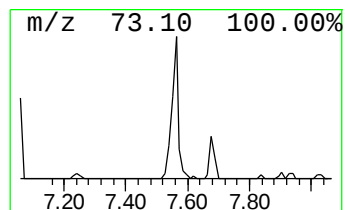
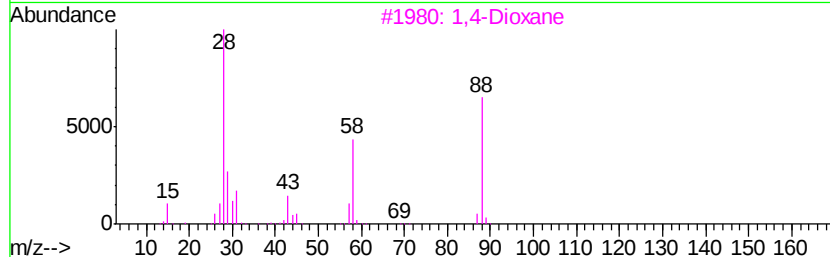
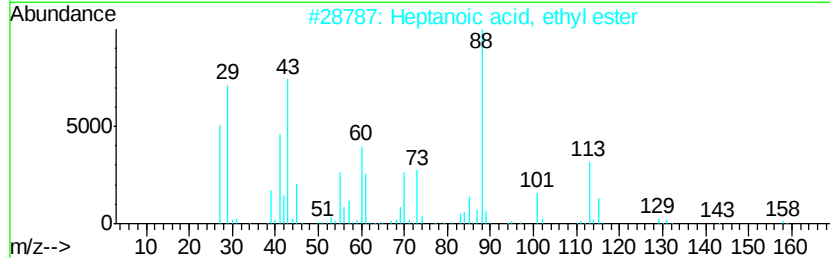
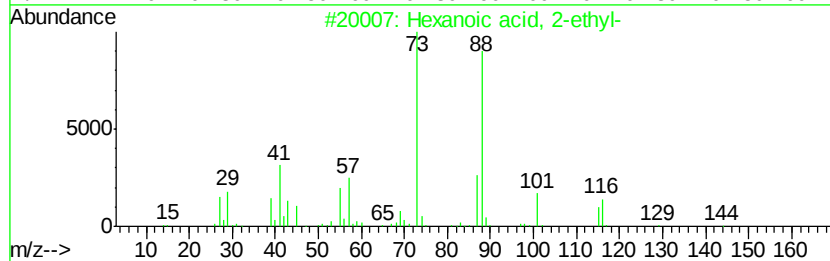
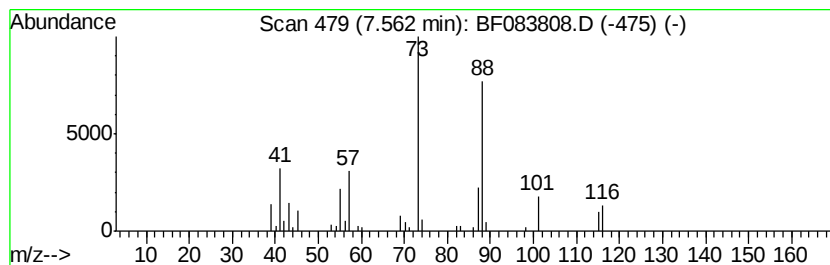
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TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Hexanoic acid, 2-ethyl- Concentration Rank 7

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 7.56 | 2.59 ng | 105013 | Naphthalene-d8   | 8.18 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Hexanoic acid, 2-ethyl-             | 144 | C8H16O2  | 000149-57-5 | 90   |
| 2    |    |   | Heptanoic acid, ethyl ester         | 158 | C9H18O2  | 000106-30-9 | 38   |
| 3    |    |   | 1,4-Dioxane                         | 88  | C4H8O2   | 000123-91-1 | 37   |
| 4    |    |   | Methyl 2,3,4-tri-O-methyl-6-deox... | 220 | C10H20O5 | 072983-16-5 | 33   |
| 5    |    |   | Butanoic acid, 2-methyl-, methyl... | 116 | C6H12O2  | 000868-57-5 | 28   |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
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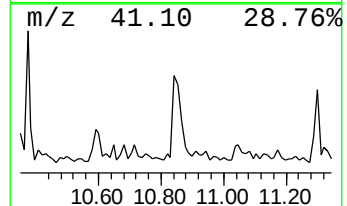
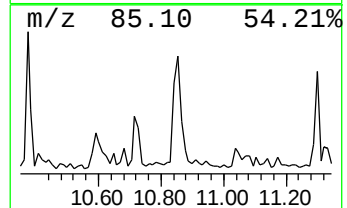
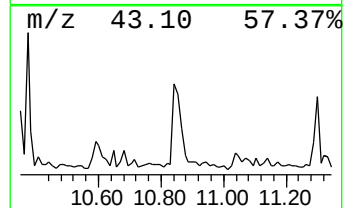
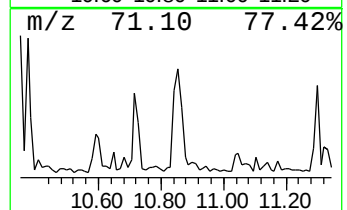
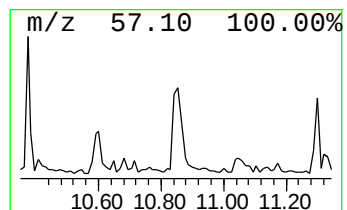
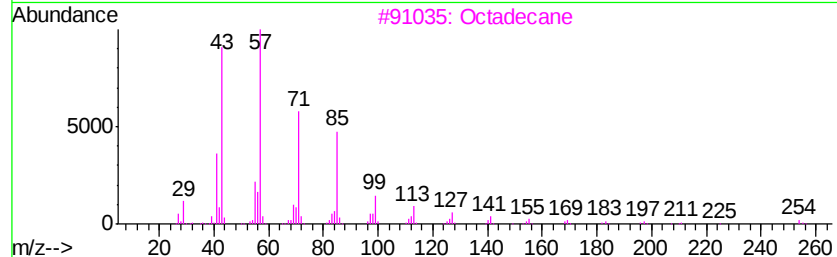
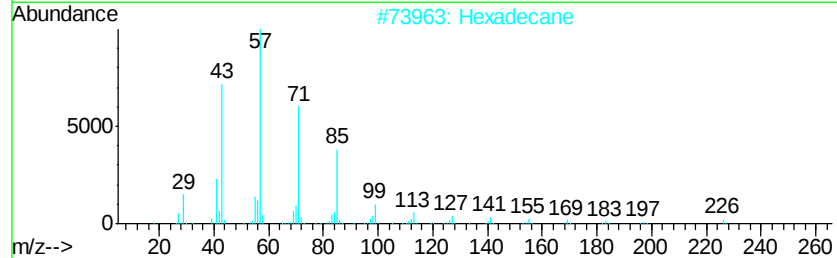
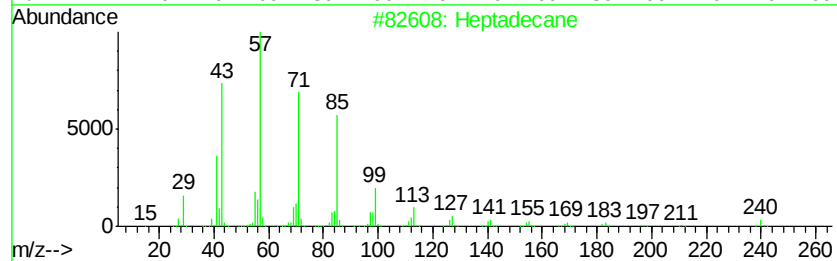
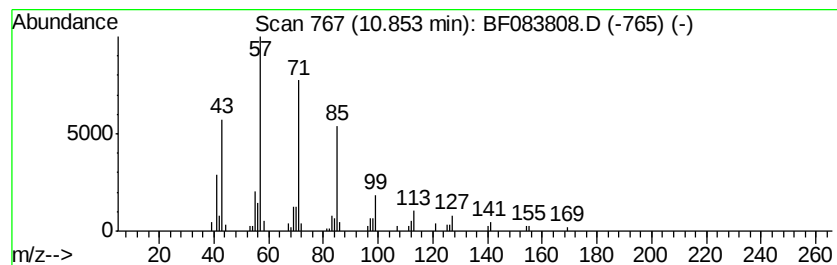
TIC Library : C:\DATABASE\NIST02.L  
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\*\*\*\*\*  
Peak Number 5 Heptadecane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.85 | 3.09 ng | 126574 | Phenanthrene-d10 | 11.41 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 91   |
| 2       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 90   |
| 3       | Octadecane  |              | 254 | C18H38  | 000593-45-3 | 90   |
| 4       | Pentadecane |              | 212 | C15H32  | 000629-62-9 | 86   |
| 5       | Tetracosane |              | 338 | C24H50  | 000646-31-1 | 86   |



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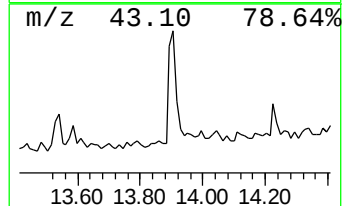
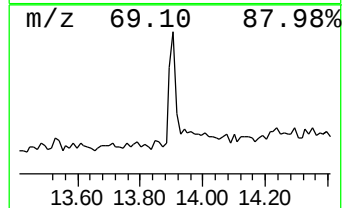
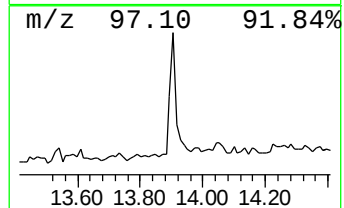
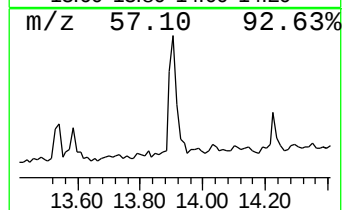
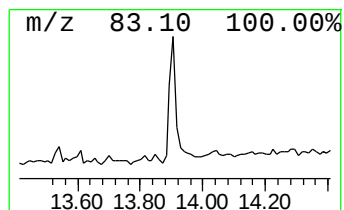
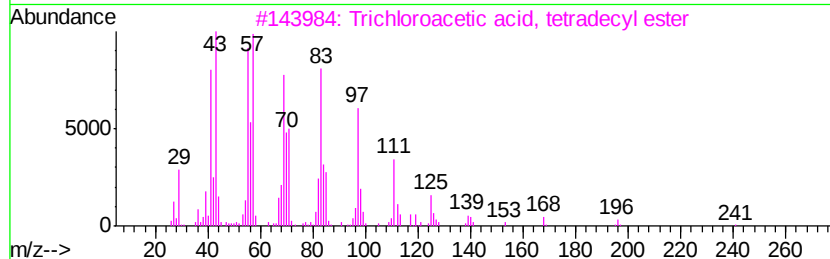
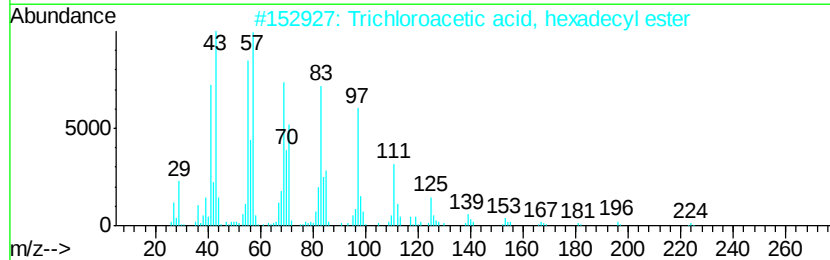
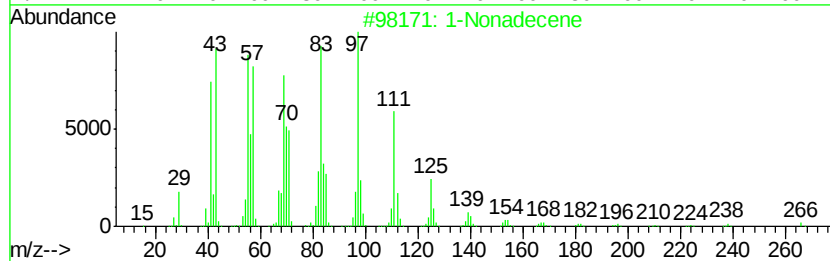
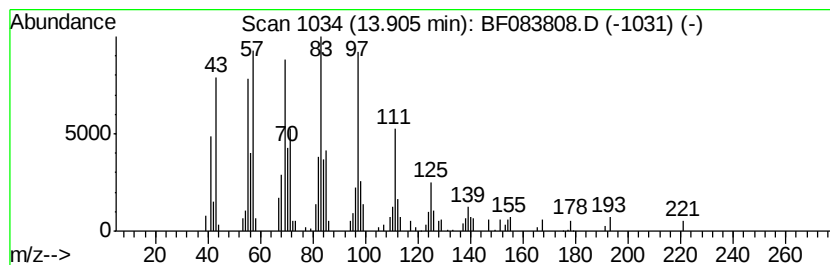
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 1-Nonadecene Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.91 | 3.75 ng | 129568 | Chrysene-d12     | 14.04 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|-------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | 1-Nonadecene                        | 266 | C19H38      | 018435-45-5 | 93   |
| 2    |    | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 90   |
| 3    |    | Trichloroacetic acid, tetradecyl... | 358 | C16H29Cl3O2 | 074339-52-9 | 90   |
| 4    |    | Acetic acid, trifluoro-, tetrade... | 310 | C16H29F3O2  | 006222-02-2 | 90   |
| 5    |    | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 90   |



Data Path : V:\HPCHEM1\BNA F\DATA\BF121515\  
Data File : BF083808.D  
Acq On : 15 Dec 2015 10:06  
Operator : UM/IZ  
Sample : G4761-05  
Misc :  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EAST-SIDEWALL

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

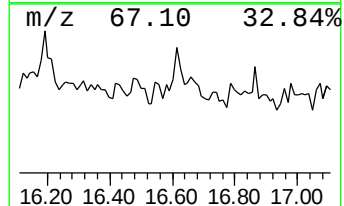
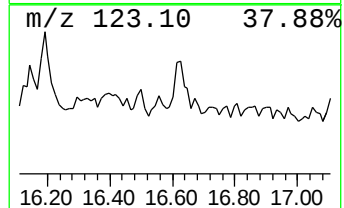
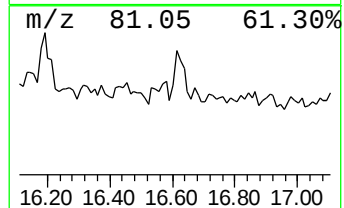
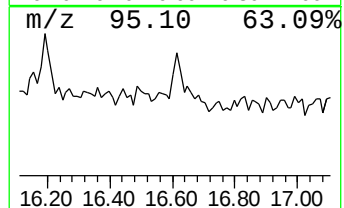
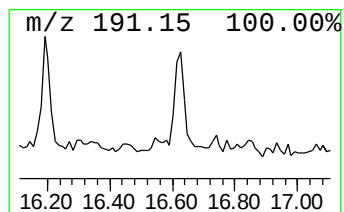
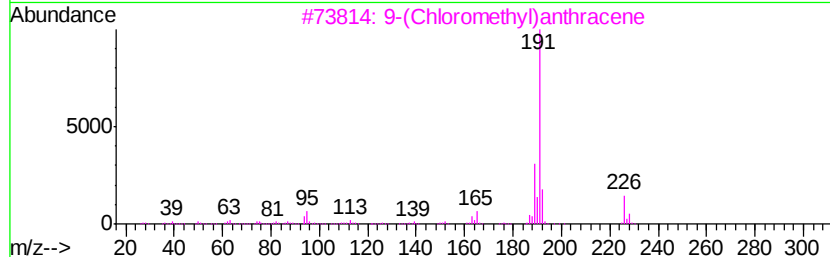
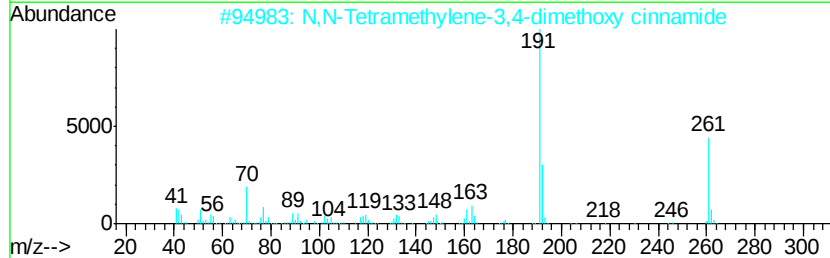
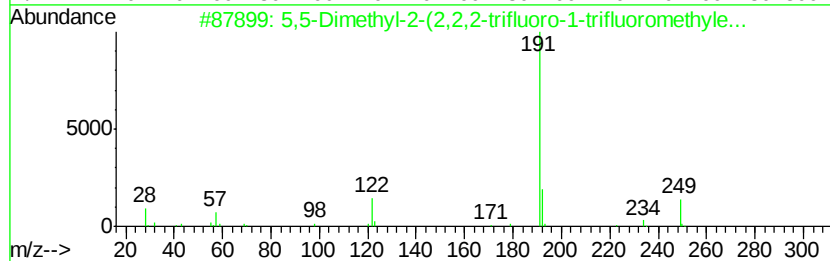
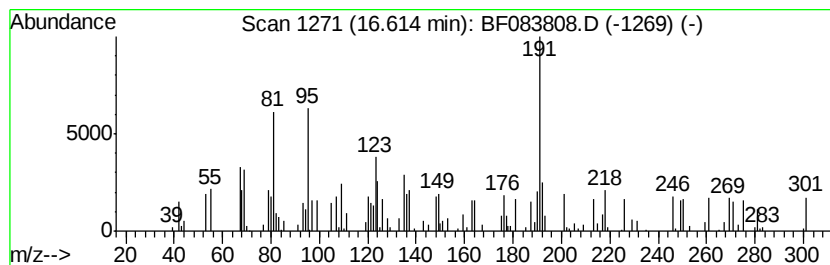
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 unknown16.61 Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.61 | 2.95 ng | 95534 | Perylene-d12     | 15.48 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 5,5-Dimethyl-2-(2,2,2-trifluoro-... | 249 | C8H9F6NO  | 020967-43-5 | 43   |
| 2    |    | N,N-Tetramethylene-3,4-dimethoxy... | 261 | C15H19NO3 | 327079-67-4 | 38   |
| 3    |    | 9-(Chloromethyl)anthracene          | 226 | C15H11Cl  | 024463-19-2 | 38   |
| 4    |    | 1-Penten-3-one, 1-(2,6,6-trimeth... | 206 | C14H22O   | 000127-43-5 | 38   |
| 5    |    | 9H-Fluorene-9-carbonitrile          | 191 | C14H9N    | 001529-40-4 | 35   |



Data Path : V:\HPCHEM1\BNA\_F\DATA\BF121515\  
Data File : BF083808.D  
Acq On : 15 Dec 2015 10:06  
Operator : UM/IZ  
Sample : G4761-05  
Misc :  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EAST-SIDEWALL

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121315.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 |
| 2-Pentanone, 4-hy... | 5.09  | 21.7    | ng    | 704596   | 1                     | 6.90  | 650181 | 20.0 |
| unknown6.67          | 6.67  | 92.7    | ng    | 3012940  | 1                     | 6.90  | 650181 | 20.0 |
| Hexanoic acid, 2-... | 7.56  | 2.6     | ng    | 105013   | 2                     | 8.18  | 811999 | 20.0 |
| Heptadecane          | 10.85 | 3.1     | ng    | 126574   | 4                     | 11.41 | 819593 | 20.0 |
| 1-Nonadecene         | 13.91 | 3.8     | ng    | 129568   | 5                     | 14.04 | 691410 | 20.0 |
| unknown16.61         | 16.61 | 3.0     | ng    | 95534    | 6                     | 15.48 | 647492 | 20.0 |