

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF081815\  
 Data File : BF081072.D  
 Acq On : 19 Aug 2015 7:59  
 Operator : UM/IZ  
 Sample : G3289-09 5X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RAMPB-T(0-2)-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\_F\METHODS\8270-BF081715.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         | 2.273       | 21            | 25          | 29           | rVB2     | 3460           | 6861          | 1.35%           | 0.113%        |
| 2         | 4.707       | 235           | 238         | 245          | rBV      | 127681         | 189886        | 37.32%          | 3.141%        |
| 3         | 5.164       | 276           | 278         | 286          | rVB      | 228616         | 287619        | 56.53%          | 4.757%        |
| 4         | 6.239       | 370           | 372         | 377          | rVV      | 283755         | 306106        | 60.17%          | 5.063%        |
| 5         | 6.364       | 381           | 383         | 386          | rBV      | 371287         | 310478        | 61.03%          | 5.135%        |
| 6         | 6.604       | 401           | 404         | 406          | rBV      | 392711         | 338195        | 66.47%          | 5.594%        |
| 7         | 6.753       | 415           | 417         | 420          | rVB      | 206101         | 214554        | 42.17%          | 3.549%        |
| 8         | 7.165       | 451           | 453         | 456          | rBV      | 215728         | 193326        | 38.00%          | 3.198%        |
| 9         | 7.885       | 514           | 516         | 519          | rBV      | 337952         | 423294        | 83.20%          | 7.001%        |
| 10        | 8.970       | 608           | 611         | 613          | rBV      | 287392         | 339926        | 66.81%          | 5.622%        |
| 11        | 9.359       | 643           | 645         | 648          | rBB      | 45648          | 57015         | 11.21%          | 0.943%        |
| 12        | 9.633       | 667           | 669         | 671          | rBV      | 589597         | 479665        | 94.28%          | 7.934%        |
| 13        | 10.079      | 707           | 708         | 712          | rVB      | 4237           | 6231          | 1.22%           | 0.103%        |
| 14        | 10.411      | 735           | 737         | 740          | rVB      | 232951         | 196345        | 38.59%          | 3.248%        |
| 15        | 10.559      | 748           | 750         | 753          | rBV      | 8645           | 13095         | 2.57%           | 0.217%        |
| 16        | 11.005      | 784           | 789         | 790          | rBV      | 6555           | 11276         | 2.22%           | 0.187%        |
| 17        | 11.108      | 795           | 798         | 800          | rVV      | 451915         | 503082        | 98.88%          | 8.321%        |
| 18        | 11.176      | 801           | 804         | 806          | rVB      | 6659           | 9806          | 1.93%           | 0.162%        |
| 19        | 11.428      | 824           | 826         | 829          | rBV3     | 5837           | 7047          | 1.39%           | 0.117%        |
| 20        | 11.622      | 840           | 843         | 844          | rBV2     | 6654           | 13717         | 2.70%           | 0.227%        |
| 21        | 11.656      | 844           | 846         | 848          | rVV      | 68715          | 70917         | 13.94%          | 1.173%        |
| 22        | 11.714      | 849           | 851         | 854          | rVV      | 6902           | 12525         | 2.46%           | 0.207%        |
| 23        | 11.828      | 856           | 861         | 865          | rVV3     | 9327           | 15787         | 3.10%           | 0.261%        |
| 24        | 12.216      | 893           | 895         | 900          | rBV      | 5604           | 11294         | 2.22%           | 0.187%        |
| 25        | 12.308      | 900           | 903         | 905          | rVV      | 41712          | 57247         | 11.25%          | 0.947%        |
| 26        | 12.434      | 912           | 914         | 920          | rBV5     | 7996           | 13611         | 2.68%           | 0.225%        |
| 27        | 12.525      | 920           | 922         | 924          | rVB      | 64862          | 66235         | 13.02%          | 1.096%        |
| 28        | 12.582      | 924           | 927         | 928          | rBV3     | 10209          | 12007         | 2.36%           | 0.199%        |
| 29        | 12.685      | 934           | 936         | 938          | rVB      | 405454         | 348325        | 68.46%          | 5.761%        |
| 30        | 12.754      | 938           | 942         | 943          | rBV4     | 3869           | 6324          | 1.24%           | 0.105%        |
| 31        | 12.857      | 947           | 951         | 953          | rBV2     | 8448           | 15530         | 3.05%           | 0.257%        |
| 32        | 12.937      | 955           | 958         | 959          | rBV2     | 8348           | 13300         | 2.61%           | 0.220%        |
| 33        | 13.051      | 966           | 968         | 969          | rBV2     | 6847           | 7137          | 1.40%           | 0.118%        |
| 34        | 13.165      | 977           | 978         | 980          | rVB      | 12161          | 9465          | 1.86%           | 0.157%        |

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ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAMPB-T(0-2)-5

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\_F\METHODS\8270-BF081715.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |         |        |
|----|--------|------|------|------|------|--------|--------|---------|--------|
| 35 | 13.234 | 982  | 984  | 986  | rBV2 | 11933  | 13749  | 2.70%   | 0.227% |
| 36 | 13.279 | 986  | 988  | 989  | rVV2 | 6481   | 6022   | 1.18%   | 0.100% |
| 37 | 13.394 | 996  | 998  | 1000 | rVB2 | 7040   | 7035   | 1.38%   | 0.116% |
| 38 | 13.622 | 1015 | 1018 | 1024 | rBV2 | 40564  | 105111 | 20.66%  | 1.739% |
| 39 | 13.725 | 1024 | 1027 | 1031 | rBV2 | 323453 | 508765 | 100.00% | 8.415% |
| 40 | 13.919 | 1042 | 1044 | 1050 | rVB6 | 9192   | 23141  | 4.55%   | 0.383% |
| 41 | 14.228 | 1069 | 1071 | 1072 | rBV  | 20342  | 22471  | 4.42%   | 0.372% |
| 42 | 14.514 | 1094 | 1096 | 1098 | rBV2 | 13514  | 20607  | 4.05%   | 0.341% |
| 43 | 14.640 | 1105 | 1107 | 1111 | rVB3 | 15716  | 20388  | 4.01%   | 0.337% |
| 44 | 14.708 | 1111 | 1113 | 1117 | rBV  | 31105  | 66239  | 13.02%  | 1.096% |
| 45 | 14.811 | 1119 | 1122 | 1123 | rVB  | 27190  | 40284  | 7.92%   | 0.666% |
| 46 | 14.960 | 1133 | 1135 | 1138 | rVB  | 27864  | 34263  | 6.73%   | 0.567% |
| 47 | 15.005 | 1138 | 1139 | 1142 | rBV  | 23195  | 33258  | 6.54%   | 0.550% |
| 48 | 15.062 | 1142 | 1144 | 1147 | rBV  | 278955 | 330191 | 64.90%  | 5.461% |
| 49 | 15.485 | 1179 | 1181 | 1184 | rBV  | 41627  | 76421  | 15.02%  | 1.264% |
| 50 | 16.011 | 1225 | 1227 | 1233 | rVV6 | 10378  | 29479  | 5.79%   | 0.488% |
| 51 | 16.148 | 1236 | 1239 | 1243 | rVB4 | 12849  | 30421  | 5.98%   | 0.503% |
| 52 | 16.274 | 1248 | 1250 | 1253 | rVB2 | 14067  | 24214  | 4.76%   | 0.401% |
| 53 | 16.640 | 1279 | 1282 | 1286 | rBV  | 9936   | 21108  | 4.15%   | 0.349% |
| 54 | 16.811 | 1295 | 1297 | 1304 | rVB8 | 15649  | 47279  | 9.29%   | 0.782% |
| 55 | 17.611 | 1364 | 1367 | 1368 | rBV3 | 8090   | 18175  | 3.57%   | 0.301% |

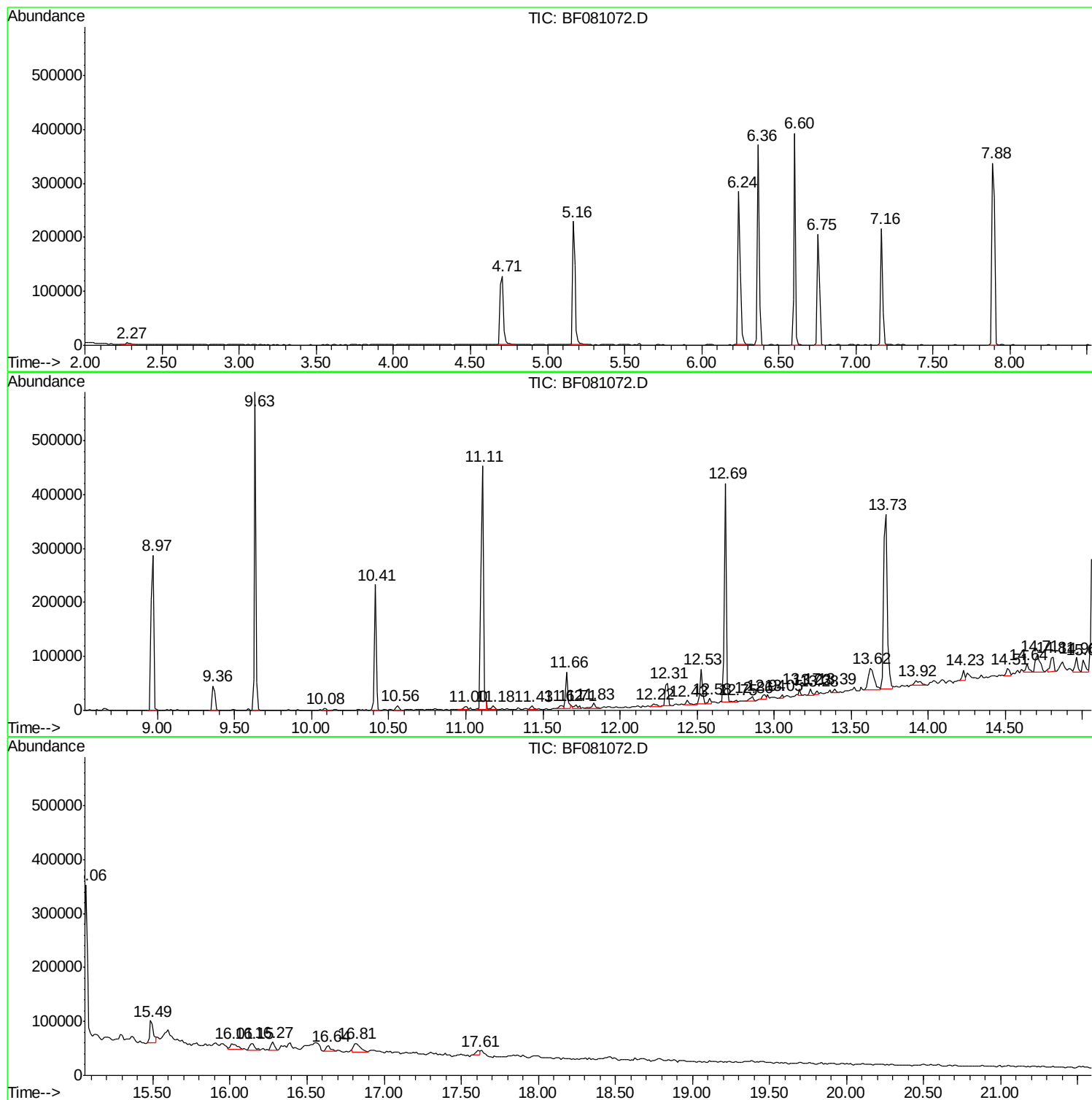
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAMPB-T(0-2)-5

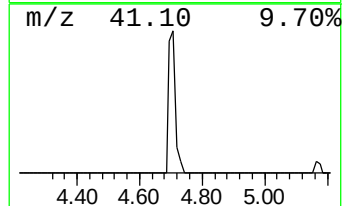
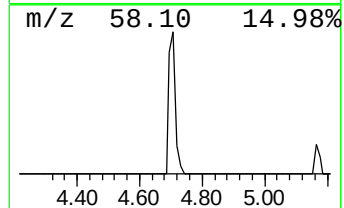
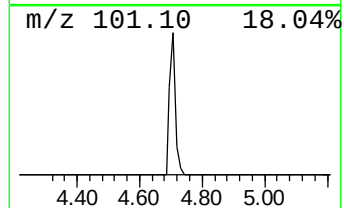
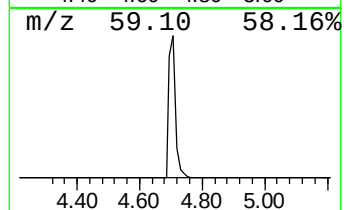
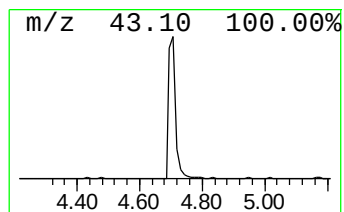
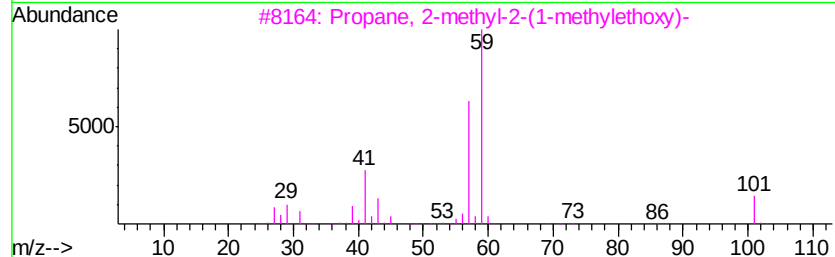
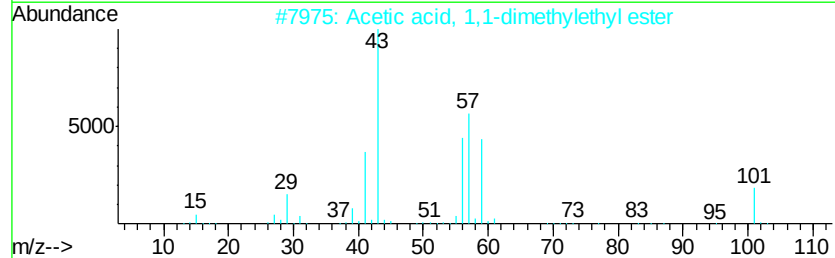
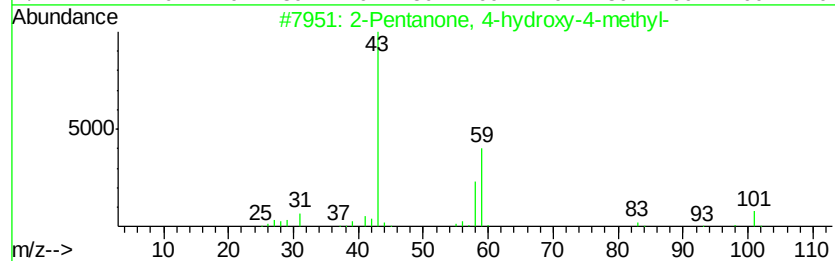
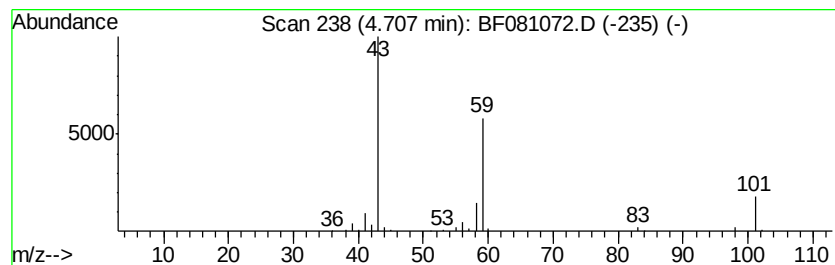
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.71 | 11.23 ng | 189886 | 1,4-Dichlorobenzene-d4 | 6.60 |

| 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, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39   |
| 3    |    |   | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O  | 017348-59-3 | 36   |
| 4    |    |   | 3-Hexanol, 4-methyl-                | 116 | C7H16O  | 000615-29-2 | 33   |
| 5    |    |   | 2,3-Butanedione, monooxime          | 101 | C4H7NO2 | 000057-71-6 | 16   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081715.M  
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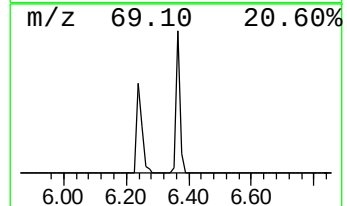
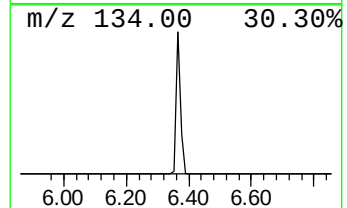
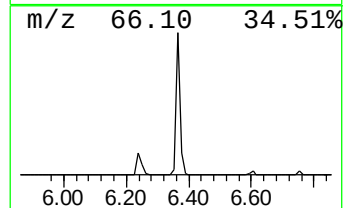
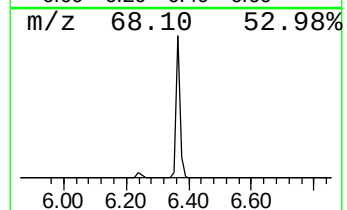
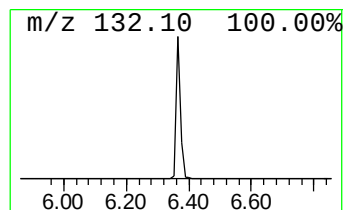
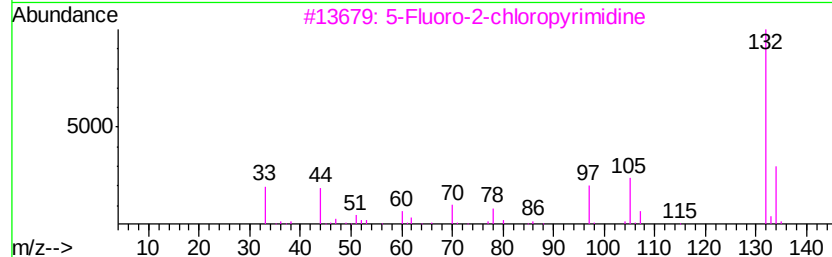
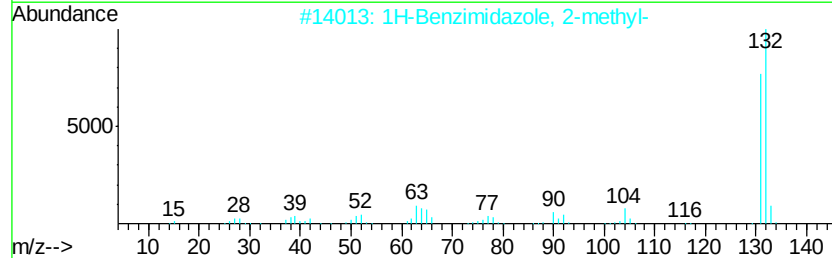
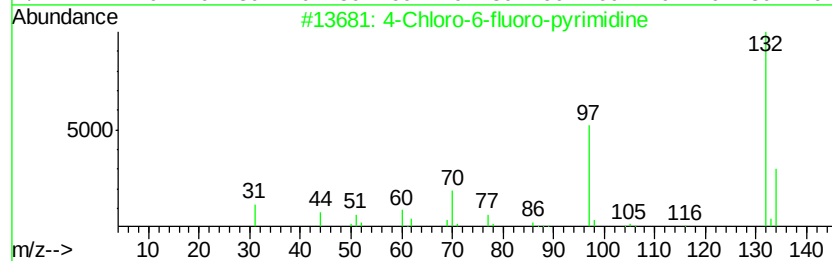
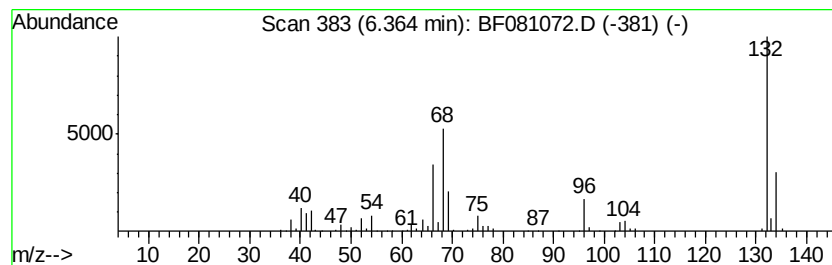
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.36 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.36 | 18.36 ng | 310478 | 1,4-Dichlorobenzene-d4 | 6.60 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 27   |
| 2    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 25   |
| 3    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 4    |    | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2    | 1000241-93-9 | 10   |
| 5    |    | 2-Cyclohexen-1-one               | 96  | C6H8O     | 000930-68-7  | 10   |



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RAMPB-T(0-2)-5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

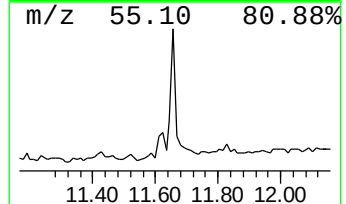
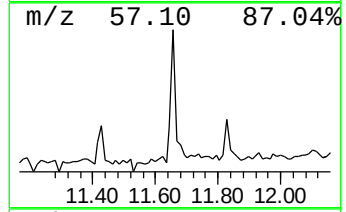
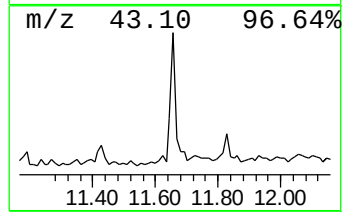
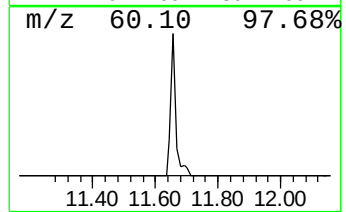
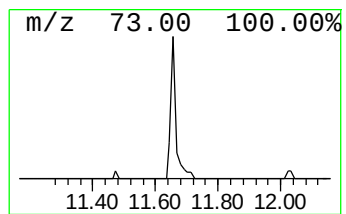
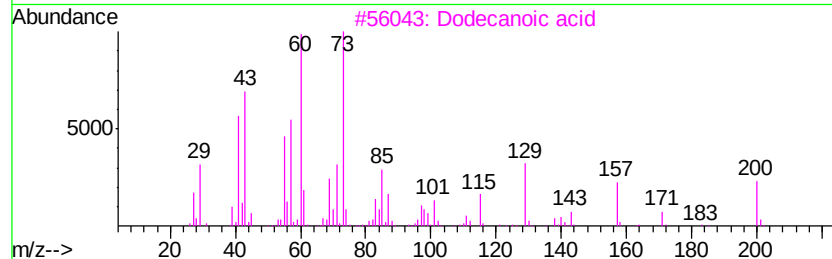
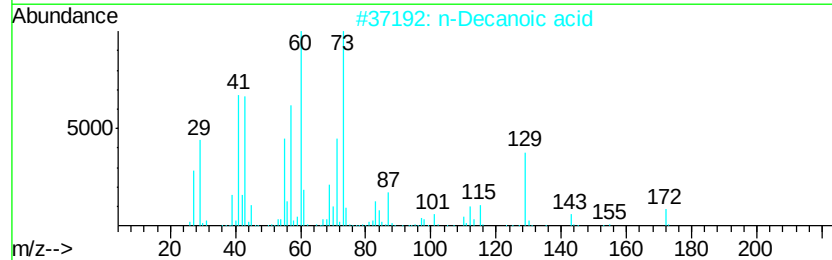
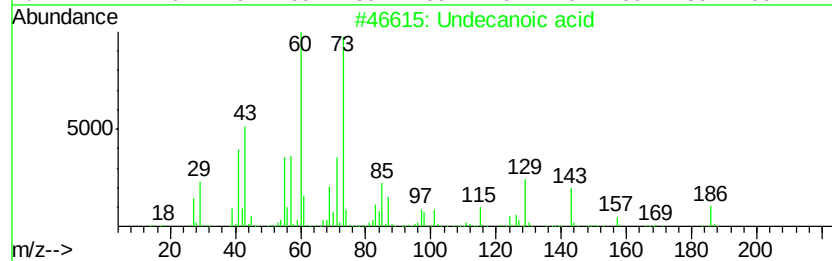
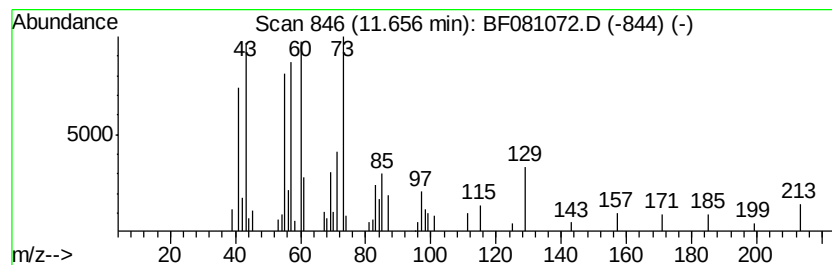
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Undecanoic acid Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.66 | 2.82 ng | 70917 | Phenanthrene-d10 | 11.11 |

| Hit# | of | Tentative ID                  | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------|-----|----------|-------------|------|
| 1    | 5  | Undecanoic acid               | 186 | C11H22O2 | 000112-37-8 | 72   |
| 2    |    | n-Decanoic acid               | 172 | C10H20O2 | 000334-48-5 | 59   |
| 3    |    | Dodecanoic acid               | 200 | C12H24O2 | 000143-07-7 | 59   |
| 4    |    | n-Capric acid isopropyl ester | 214 | C13H26O2 | 002311-59-3 | 53   |
| 5    |    | Amyl Nitrite                  | 117 | C5H11NO2 | 000110-46-3 | 35   |



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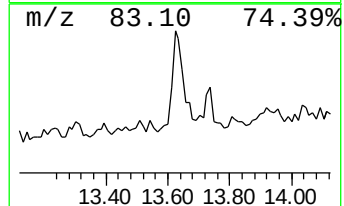
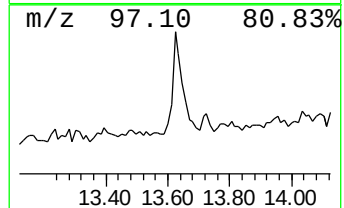
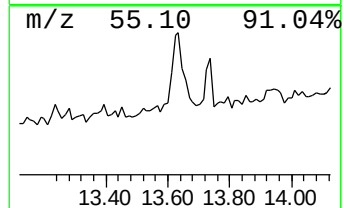
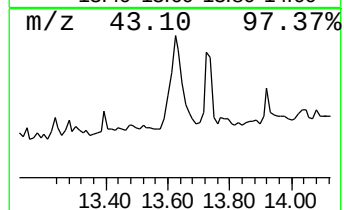
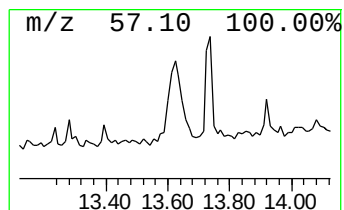
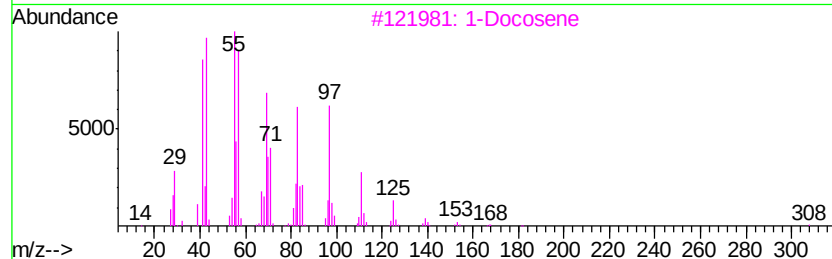
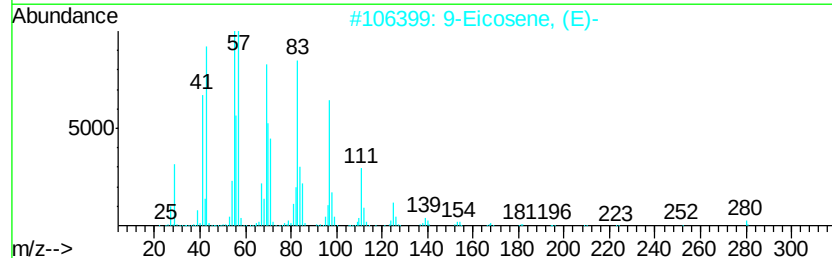
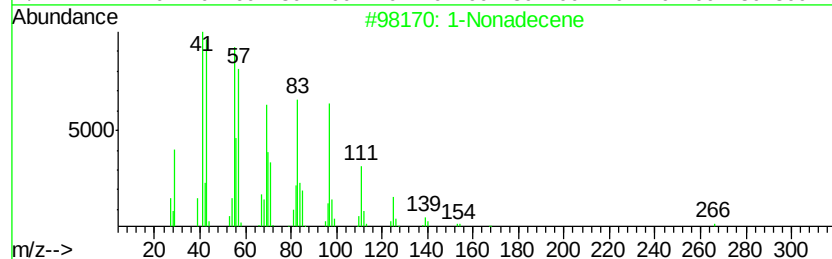
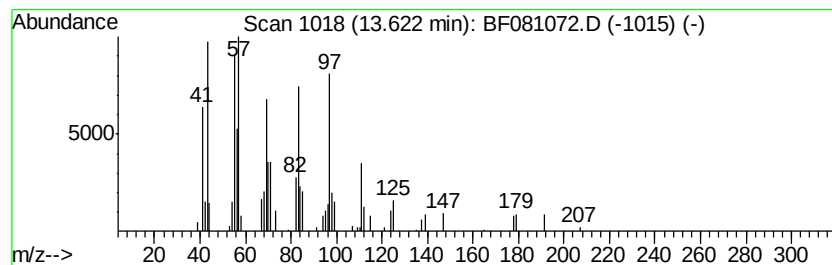
Instrument :  
BNA\_F  
ClientSampleId :  
RAMPB-T(0-2)-5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 1-Nonadecene Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD    |     | R.T.    |             |      |
|-------|---------|--------|---------------------|-----|---------|-------------|------|
| 13.62 | 4.13 ng | 105111 | Chrysene-d12        |     | 13.73   |             |      |
| Hit#  | of      | 5      | Tentative ID        | MW  | MolForm | CAS#        | Qual |
| 1     |         |        | 1-Nonadecene        | 266 | C19H38  | 018435-45-5 | 90   |
| 2     |         |        | 9-Eicosene, (E)-    | 280 | C20H40  | 074685-29-3 | 76   |
| 3     |         |        | 1-Docosene          | 308 | C22H44  | 001599-67-3 | 74   |
| 4     |         |        | 17-Pentatriacontene | 491 | C35H70  | 006971-40-0 | 74   |
| 5     |         |        | 3-Eicosene, (E)-    | 280 | C20H40  | 074685-33-9 | 68   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF081815\  
Data File : BF081072.D  
Acq On : 19 Aug 2015 7:59  
Operator : UM/IZ  
Sample : G3289-09 5X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAMPB-T(0-2)-5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

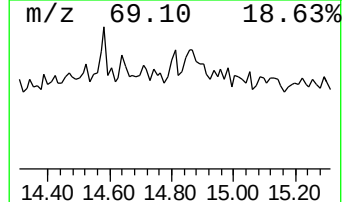
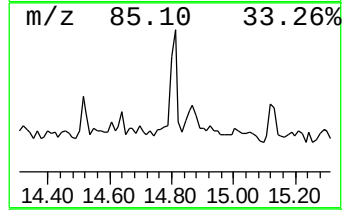
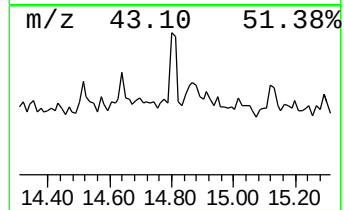
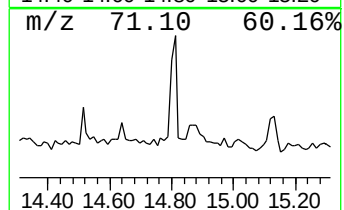
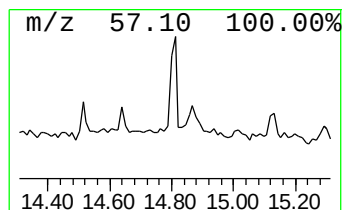
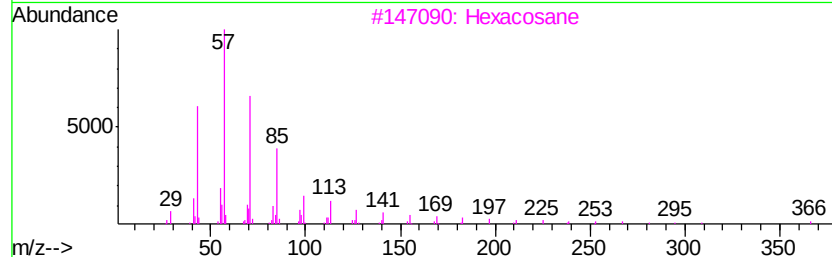
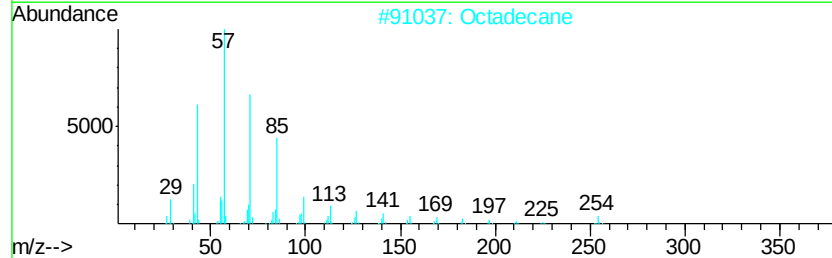
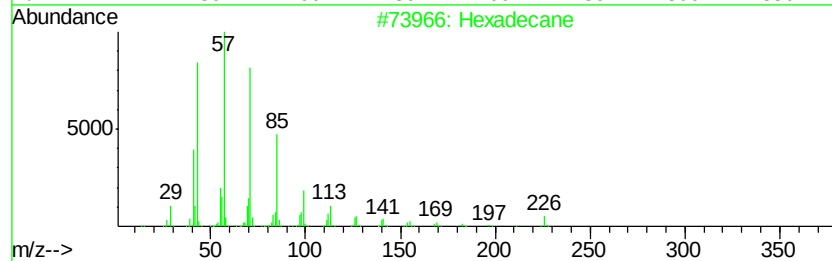
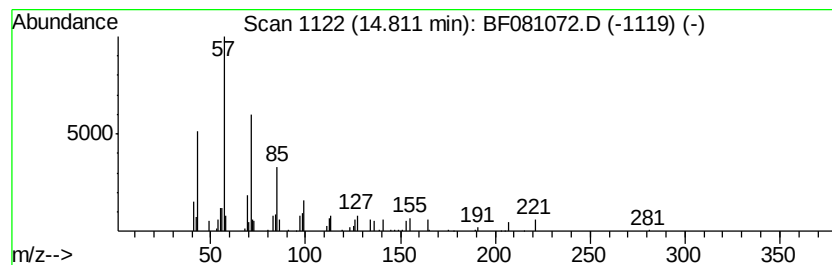
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Hexadecane Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.81 | 2.44 ng | 40284 | Perylene-d12     | 15.06 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane   | 226 | C16H34  | 000544-76-3 | 72   |
| 2    |    | Octadecane   | 254 | C18H38  | 000593-45-3 | 64   |
| 3    |    | Hexacosane   | 366 | C26H54  | 000630-01-3 | 64   |
| 4    |    | Pentacosane  | 352 | C25H52  | 000629-99-2 | 59   |
| 5    |    | Heptacosane  | 380 | C27H56  | 000593-49-7 | 59   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF081815\  
Data File : BF081072.D  
Acq On : 19 Aug 2015 7:59  
Operator : UM/IZ  
Sample : G3289-09 5X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

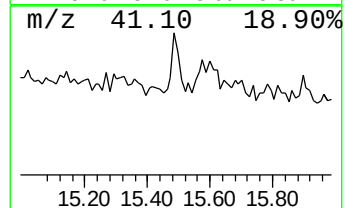
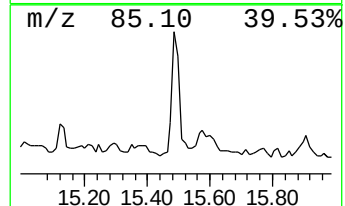
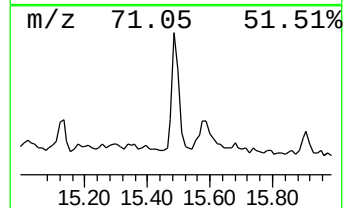
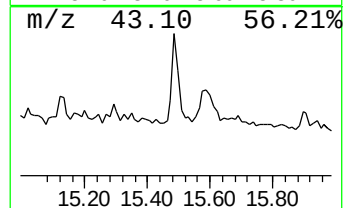
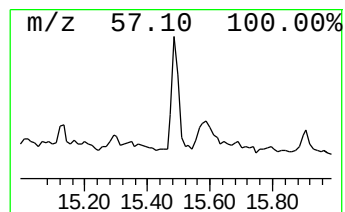
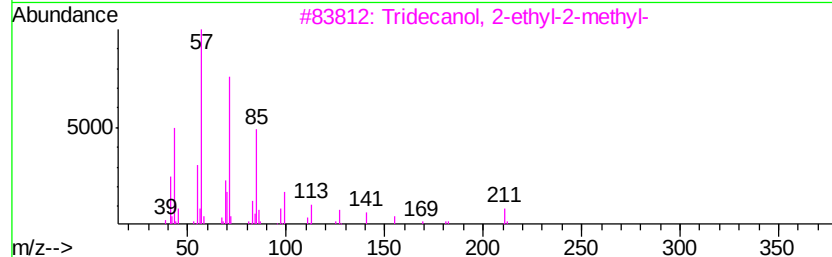
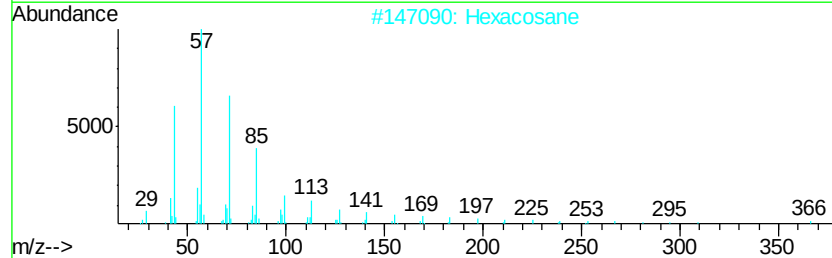
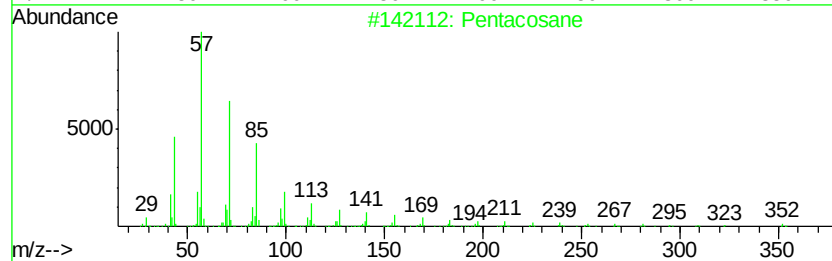
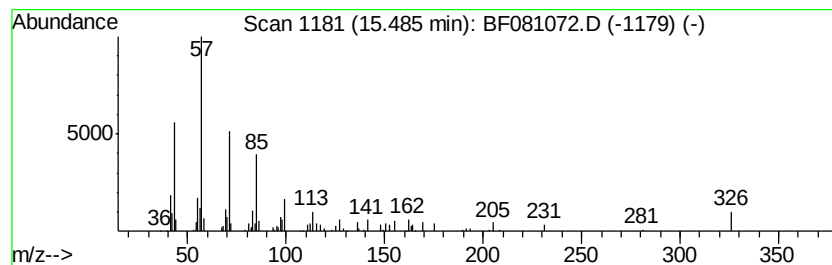
Instrument :  
BNA\_F  
ClientSampleId :  
RAMPB-T(0-2)-5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081715.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 10 Pentacosane Concentration Rank 4

| R.T.    | EstConc                       | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------|--------------|------------------|-----------|
| 15.49   | 4.63 ng                       | 76421        | Perylene-d12     | 15.06     |
| Hit# of | 5                             | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Pentacosane                   | 352 C25H52   | 000629-99-2      | 81        |
| 2       | Hexacosane                    | 366 C26H54   | 000630-01-3      | 81        |
| 3       | Tridecanol, 2-ethyl-2-methyl- | 242 C16H34O  | 1000115-66-1     | 74        |
| 4       | Triacontane                   | 422 C30H62   | 000638-68-6      | 74        |
| 5       | Heneicosane                   | 296 C21H44   | 000629-94-7      | 74        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF081815\  
Data File : BF081072.D  
Acq On : 19 Aug 2015 7:59  
Operator : UM/IZ  
Sample : G3289-09 5X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAMPB-T(0-2)-5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

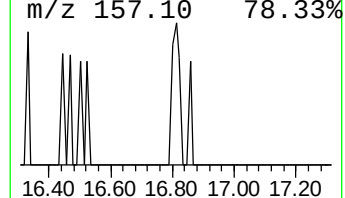
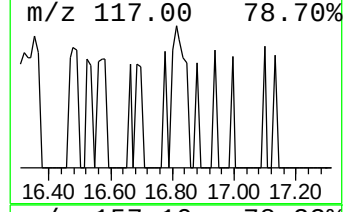
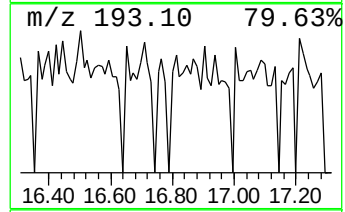
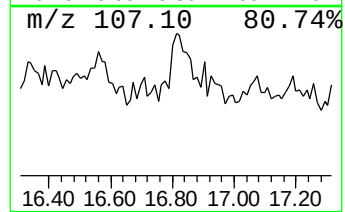
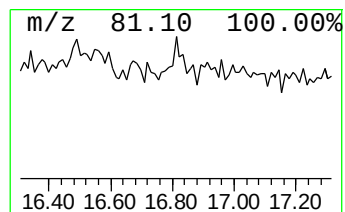
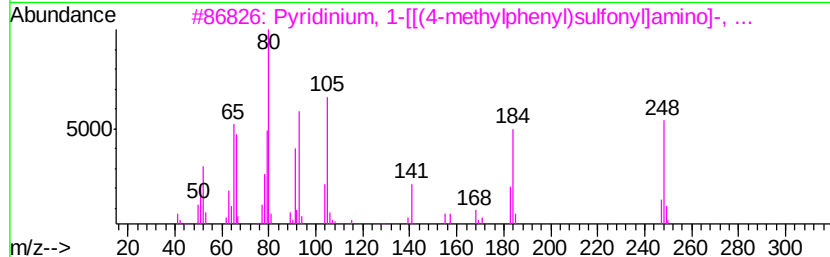
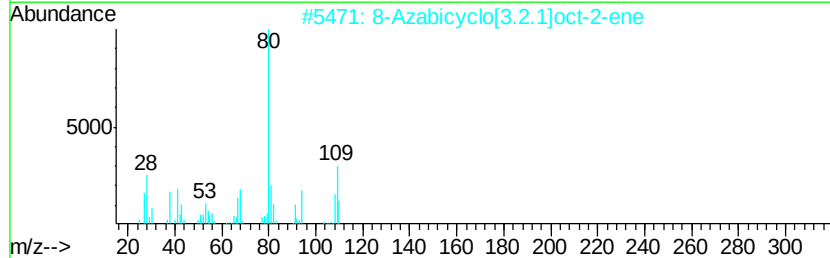
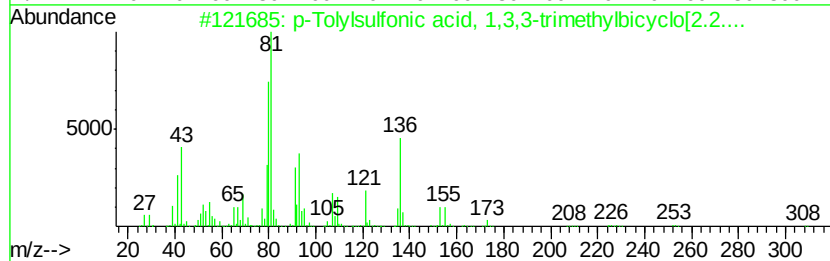
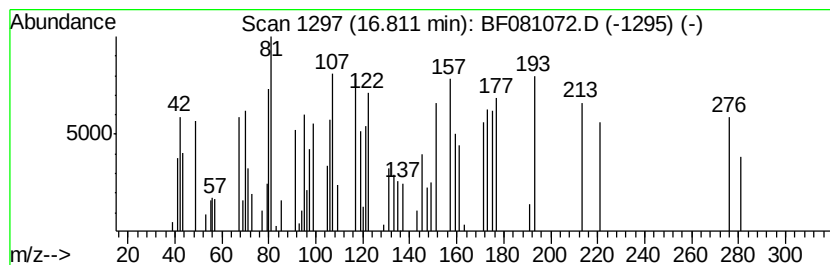
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 unknown16.81 Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.81 | 2.86 ng | 47279 | Perylene-d12     | 15.06 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | p-Tolylsulfonic acid, 1,3,3-trim... | 308 | C17H24O3S   | 1000196-53-0 | 22   |
| 2    |    | 8-Azabicyclo[3.2.1]oct-2-ene        | 109 | C7H11N      | 005632-85-9  | 14   |
| 3    |    | Pyridinium, 1-[[4-methylphenyl)...  | 248 | C12H12N2O2S | 040949-56-2  | 14   |
| 4    |    | 1H-Pyrrole, 2-ethyl-                | 95  | C6H9N       | 001551-06-0  | 14   |
| 5    |    | Cyclobuta[1,2:3,4]dicyclopentene... | 204 | C15H24      | 005208-59-3  | 10   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF081815\  
Data File : BF081072.D  
Acq On : 19 Aug 2015 7:59  
Operator : UM/IZ  
Sample : G3289-09 5X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAMPB-T(0-2)-5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081715.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... | 4.71  | 11.2    | ng    | 189886   | 1                     | 6.60  | 338195 | 20.0 |
| unknown6.36          | 6.36  | 18.4    | ng    | 310478   | 1                     | 6.60  | 338195 | 20.0 |
| Undecanoic acid      | 11.66 | 2.8     | ng    | 70917    | 4                     | 11.11 | 503082 | 20.0 |
| 1-Nonadecene         | 13.62 | 4.1     | ng    | 105111   | 5                     | 13.73 | 508765 | 20.0 |
| Hexadecane           | 14.81 | 2.4     | ng    | 40284    | 6                     | 15.06 | 330191 | 20.0 |
| Pentacosane          | 15.49 | 4.6     | ng    | 76421    | 6                     | 15.06 | 330191 | 20.0 |
| unknown16.81         | 16.81 | 2.9     | ng    | 47279    | 6                     | 15.06 | 330191 | 20.0 |