

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100716\  
 Data File : BF090473.D  
 Acq On : 8 Oct 2016 7:49  
 Operator : UM/SJ  
 Sample : H5136-07  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 100516-07

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-BF100516.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         | 5.194       | 247           | 250         | 256          | rVB      | 1233094        | 1740281       | 21.23%          | 2.591%        |
| 2         | 5.606       | 283           | 286         | 288          | rBV      | 5550826        | 6185113       | 75.47%          | 9.210%        |
| 3         | 6.623       | 372           | 375         | 377          | rBV      | 5587481        | 6583630       | 80.33%          | 9.804%        |
| 4         | 6.760       | 384           | 387         | 389          | rBV      | 6750039        | 6918619       | 84.42%          | 10.303%       |
| 5         | 6.989       | 404           | 407         | 409          | rVB      | 1420554        | 1422299       | 17.35%          | 2.118%        |
| 6         | 7.149       | 418           | 421         | 423          | rVB      | 4685513        | 5467537       | 66.71%          | 8.142%        |
| 7         | 7.549       | 453           | 456         | 458          | rBV      | 3977298        | 4195971       | 51.20%          | 6.248%        |
| 8         | 7.640       | 461           | 464         | 466          | rVV      | 142231         | 187431        | 2.29%           | 0.279%        |
| 9         | 8.269       | 517           | 519         | 522          | rBV      | 1634077        | 1897099       | 23.15%          | 2.825%        |
| 10        | 9.355       | 611           | 614         | 616          | rBV      | 7537900        | 7436233       | 90.74%          | 11.073%       |
| 11        | 9.743       | 646           | 648         | 650          | rBV      | 1829160        | 2037074       | 24.86%          | 3.033%        |
| 12        | 10.040      | 671           | 674         | 676          | rVB      | 1925049        | 2325569       | 28.38%          | 3.463%        |
| 13        | 10.463      | 707           | 711         | 713          | rBV      | 136490         | 162929        | 1.99%           | 0.243%        |
| 14        | 10.692      | 728           | 731         | 734          | rBV      | 52766          | 96897         | 1.18%           | 0.144%        |
| 15        | 10.829      | 740           | 743         | 745          | rBV      | 5038484        | 4952927       | 60.44%          | 7.375%        |
| 16        | 10.943      | 750           | 753         | 760          | rVB      | 194944         | 259398        | 3.17%           | 0.386%        |
| 17        | 11.389      | 790           | 792         | 794          | rBV      | 137429         | 129559        | 1.58%           | 0.193%        |
| 18        | 11.526      | 801           | 804         | 806          | rBV      | 2933219        | 2466757       | 30.10%          | 3.673%        |
| 19        | 12.052      | 847           | 850         | 852          | rBV      | 590665         | 542628        | 6.62%           | 0.808%        |
| 20        | 12.841      | 917           | 919         | 926          | rBV      | 290608         | 331921        | 4.05%           | 0.494%        |
| 21        | 13.126      | 941           | 944         | 946          | rVB      | 5837182        | 8195367       | 100.00%         | 12.204%       |
| 22        | 14.007      | 1019          | 1021        | 1030         | rBV      | 240098         | 414504        | 5.06%           | 0.617%        |
| 23        | 14.178      | 1033          | 1036        | 1038         | rBV      | 1330347        | 1741041       | 21.24%          | 2.593%        |
| 24        | 14.647      | 1075          | 1077        | 1084         | rBV      | 61214          | 109820        | 1.34%           | 0.164%        |
| 25        | 15.047      | 1109          | 1112        | 1114         | rBV      | 99378          | 139379        | 1.70%           | 0.208%        |
| 26        | 15.664      | 1163          | 1166        | 1169         | rBV      | 771081         | 1214446       | 14.82%          | 1.808%        |

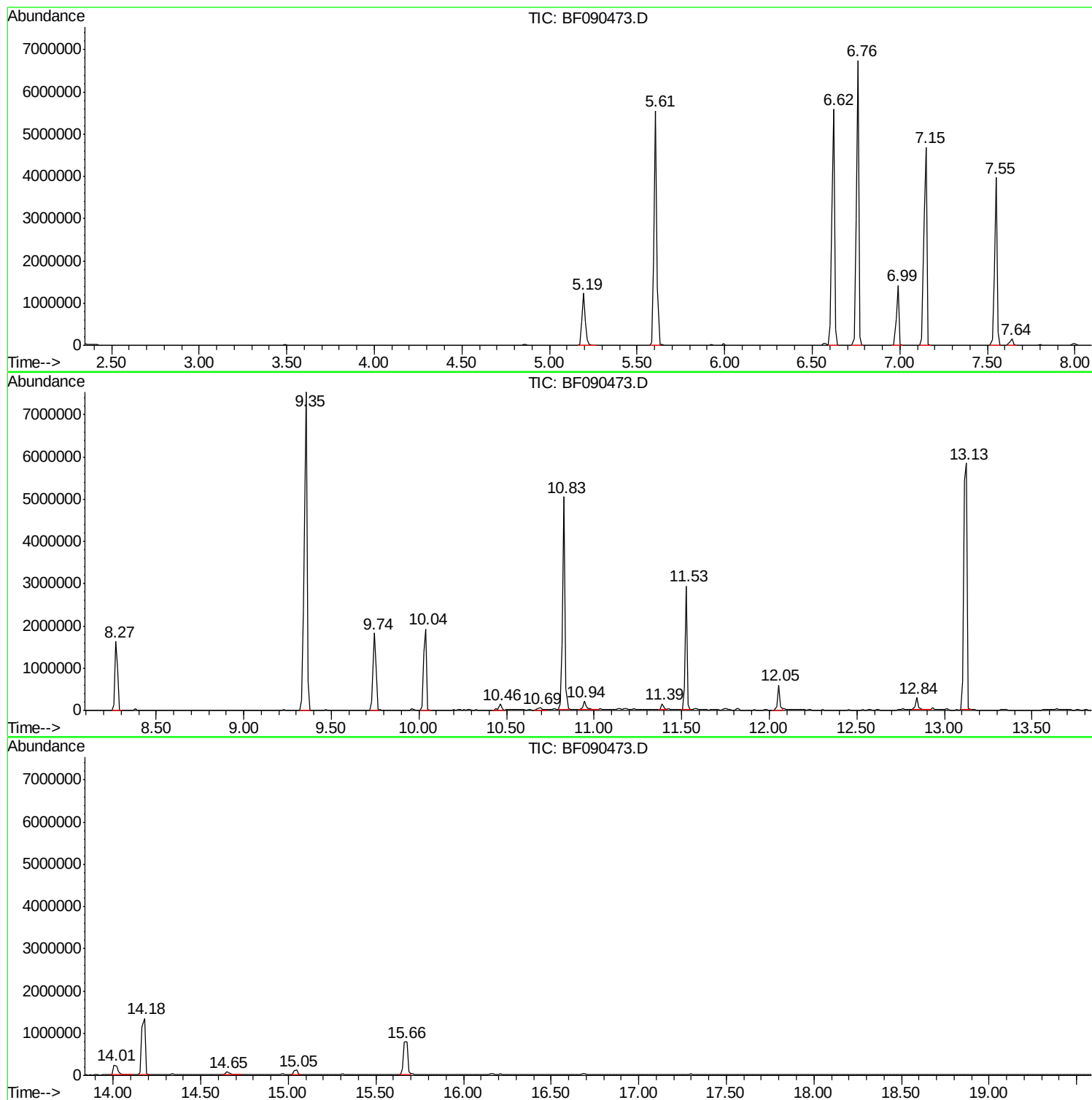
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ClientSampleId :  
100516-07

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF100516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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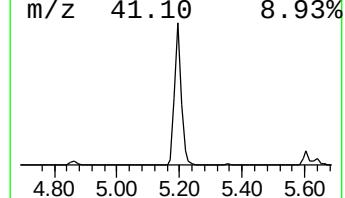
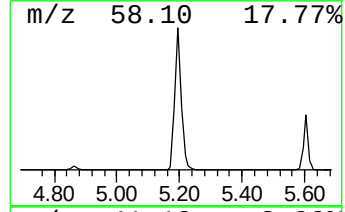
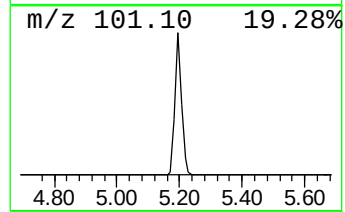
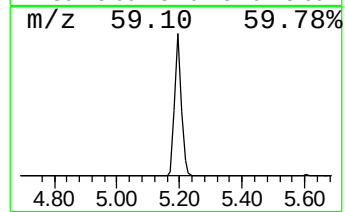
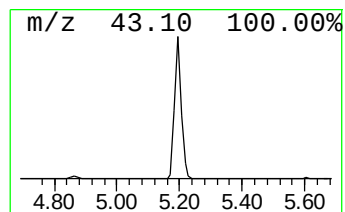
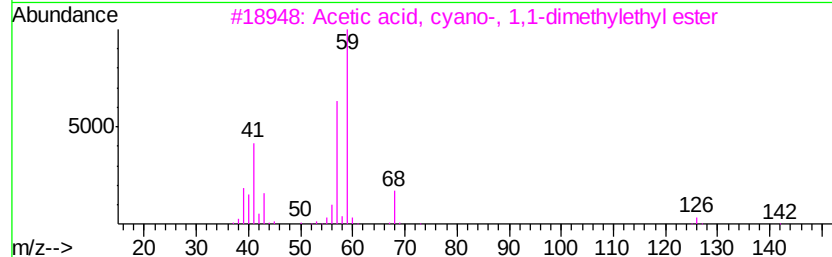
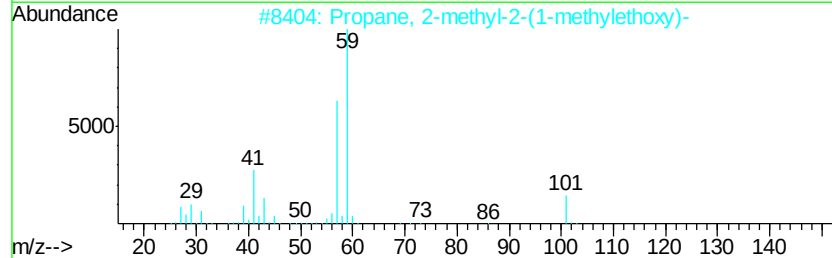
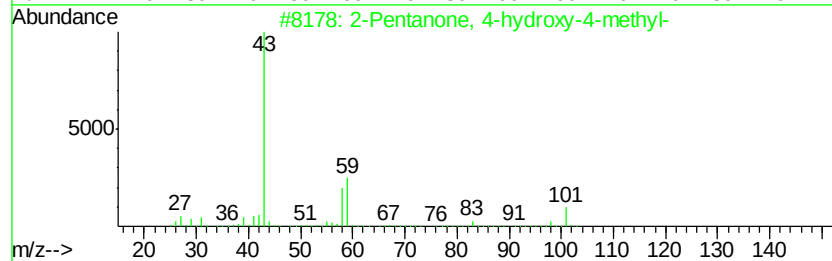
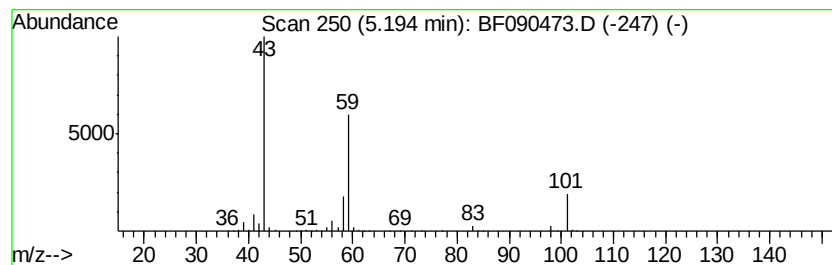
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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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. |
|------|----------|---------|------------------------|------|
| 5.19 | 24.47 ng | 1740280 | 1,4-Dichlorobenzene-d4 | 6.99 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 64   |
| 2    |    | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O   | 017348-59-3 | 36   |
| 3    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 4    |    | Acetone                             | 58  | C3H6O    | 000067-64-1 | 9    |
| 5    |    | 2,3-Butanedione, monooxime          | 101 | C4H7NO2  | 000057-71-6 | 9    |



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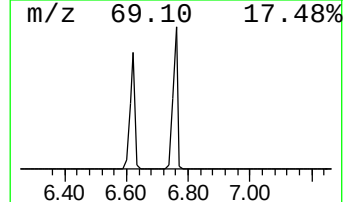
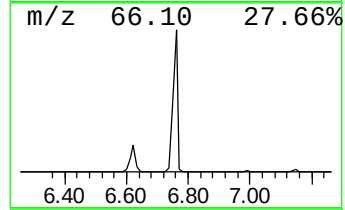
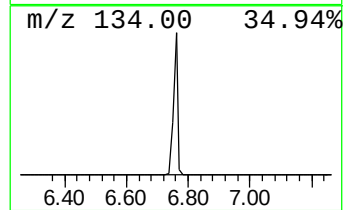
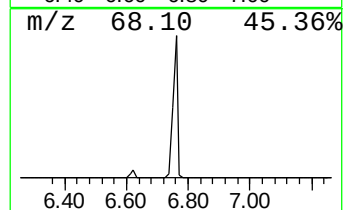
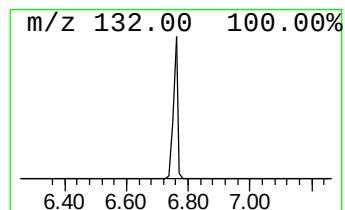
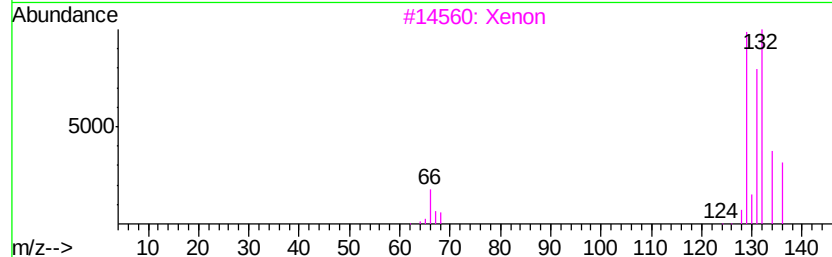
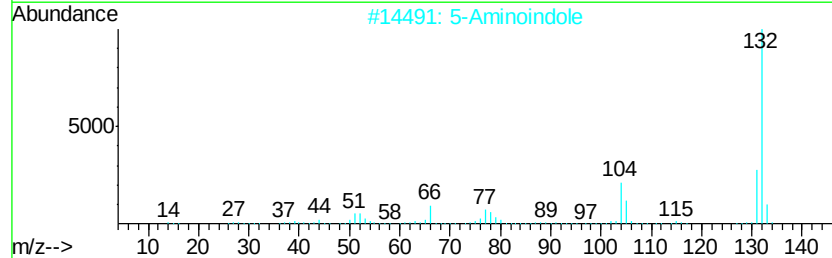
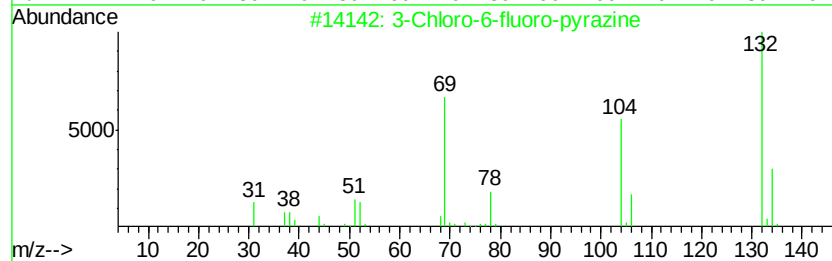
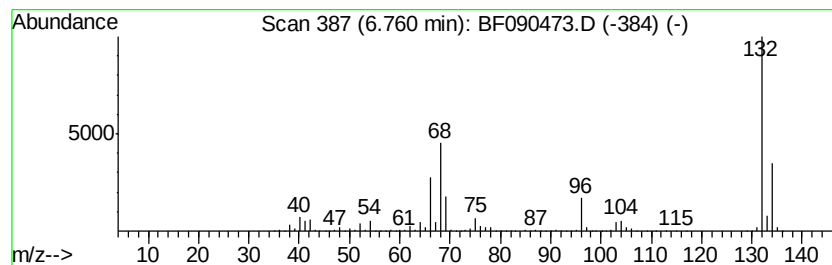
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.76 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.76 | 97.29 ng | 6918620 | 1,4-Dichlorobenzene-d4 | 6.99 |

| Hit# | of | Tentative ID                 | MW  | MolForm   | CAS#         | Qual |
|------|----|------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine   | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Aminoindole                | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    | Xenon                        | 132 | Xe        | 007440-63-3  | 9    |
| 4    |    | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 5    |    | 1H-Benzimidazole, 2-methyl-  | 132 | C8H8N2    | 000615-15-6  | 9    |



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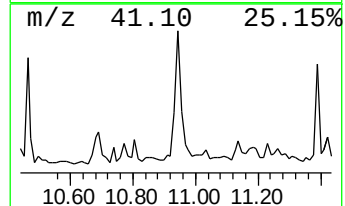
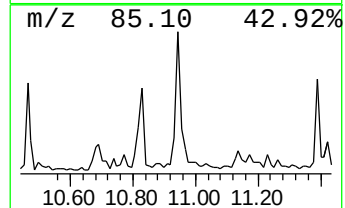
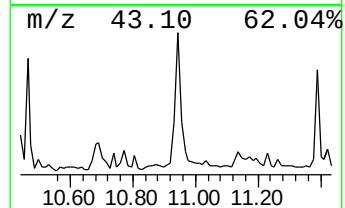
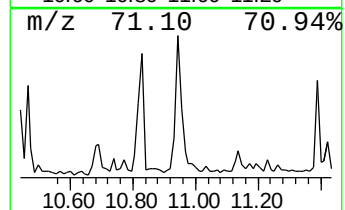
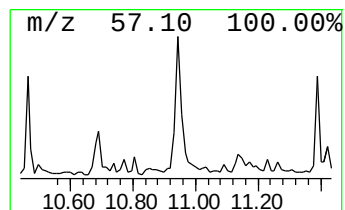
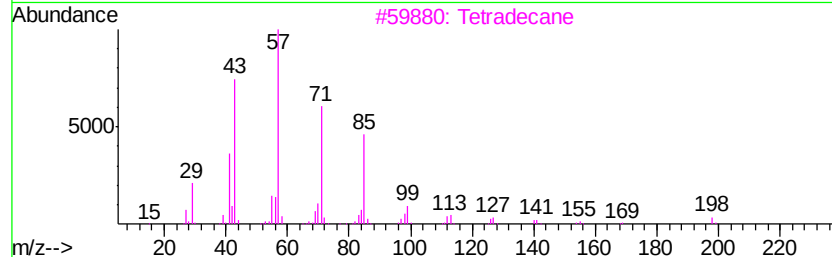
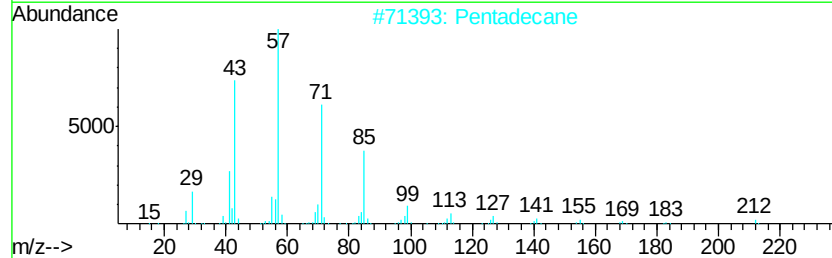
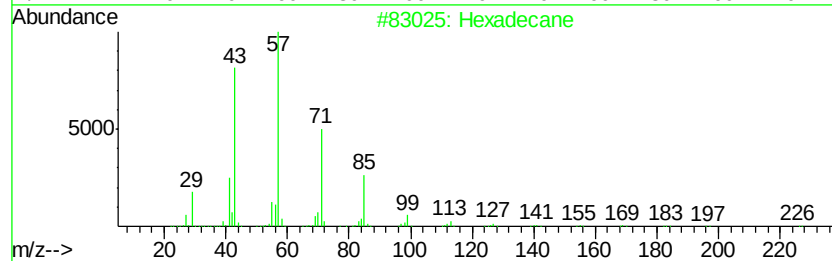
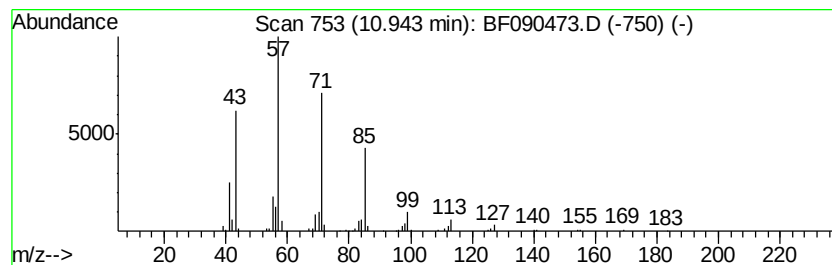
Instrument :  
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ClientSampleId :  
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Hexadecane Concentration Rank 8

| R.T.    | EstConc            | Area         | Relative to ISTD | R.T.      |
|---------|--------------------|--------------|------------------|-----------|
| 10.94   | 2.10 ng            | 259398       | Phenanthrene-d10 | 11.53     |
| Hit# of | 5                  | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Hexadecane         | 226 C16H34   | 000544-76-3      | 90        |
| 2       | Pentadecane        | 212 C15H32   | 000629-62-9      | 90        |
| 3       | Tetradecane        | 198 C14H30   | 000629-59-4      | 90        |
| 4       | Heptadecane        | 240 C17H36   | 000629-78-7      | 90        |
| 5       | Tridecane, 1-iodo- | 310 C13H27I  | 035599-77-0      | 86        |



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BNA\_F  
ClientSampleId :  
100516-07

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF100516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

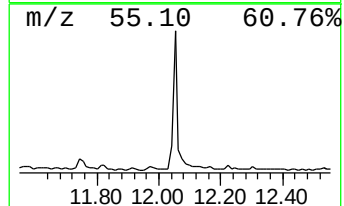
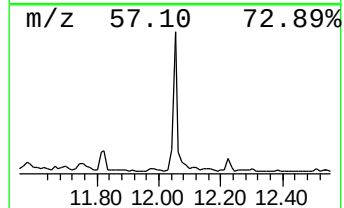
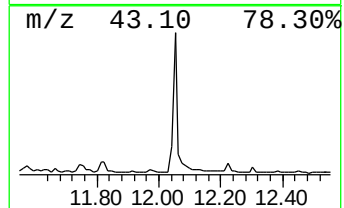
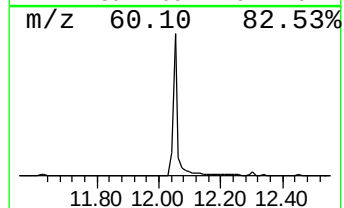
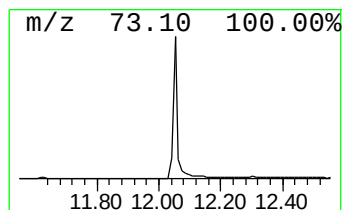
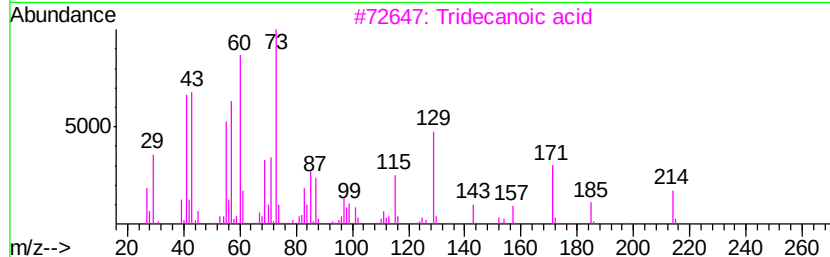
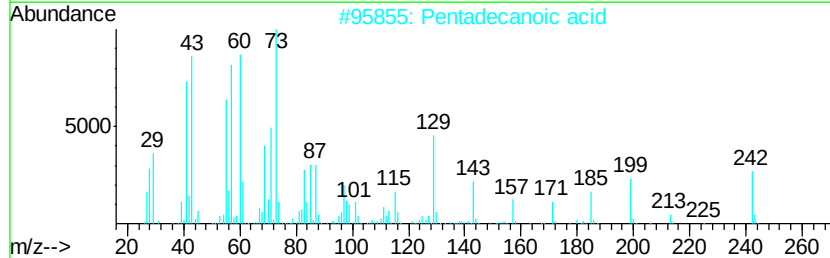
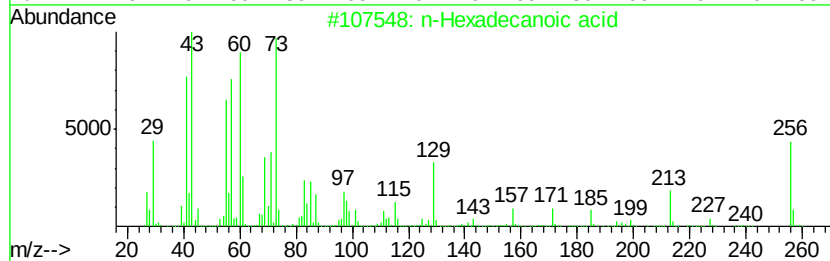
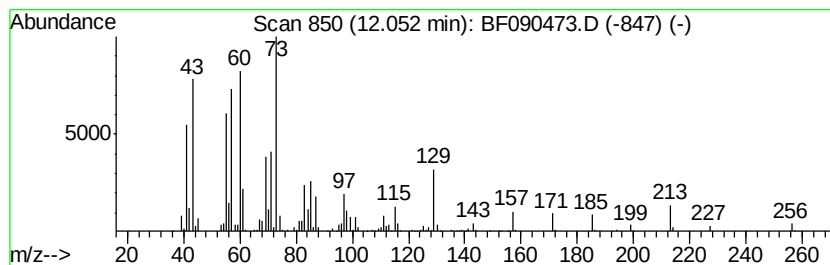
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 n-Hexadecanoic acid Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.05 | 4.40 ng | 542628 | Phenanthrene-d10 | 11.53 |

| Hit# | of | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1    | 5  | n-Hexadecanoic acid                | 256 | C16H32O2 | 000057-10-3  | 99   |
| 2    |    | Pentadecanoic acid                 | 242 | C15H30O2 | 001002-84-2  | 91   |
| 3    |    | Tridecanoic acid                   | 214 | C13H26O2 | 000638-53-9  | 64   |
| 4    |    | Estra-1,3,5(10)-trien-17.beta.-ol  | 256 | C18H24O  | 002529-64-8  | 25   |
| 5    |    | Oxalic acid, allyl hexadecyl ester | 354 | C21H38O4 | 1000309-24-4 | 20   |



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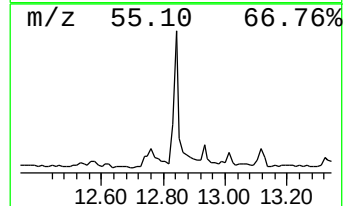
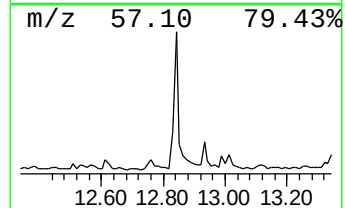
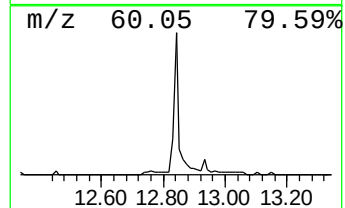
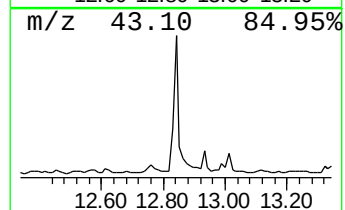
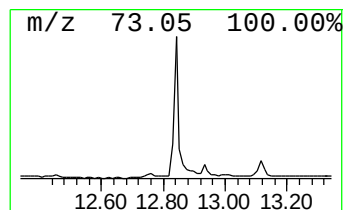
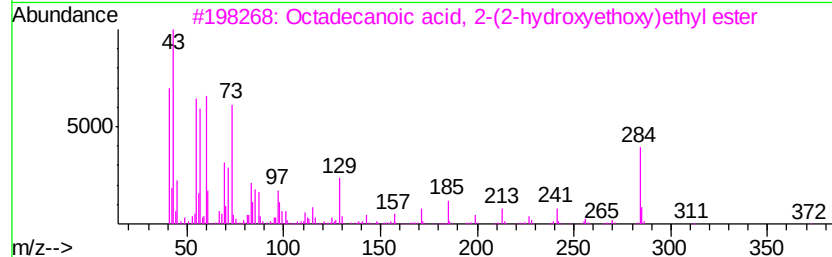
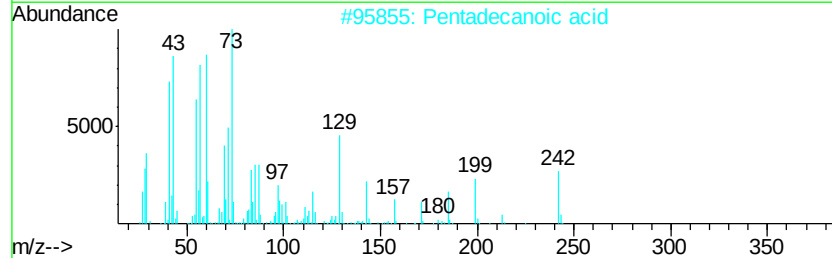
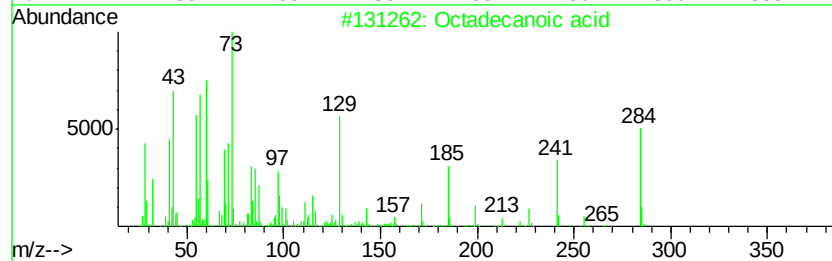
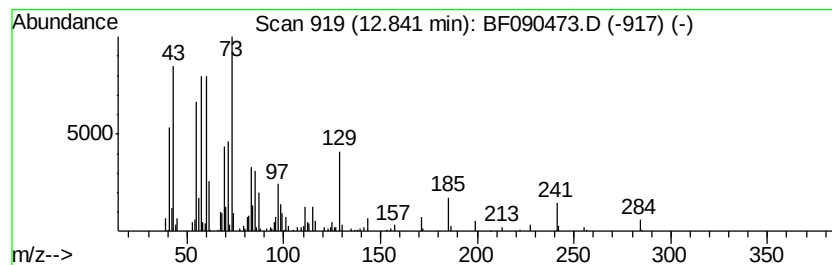
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Octadecanoic acid Concentration Rank 6

| R.T.    | EstConc | Area                                | Relative to ISTD |          | R.T.        |      |
|---------|---------|-------------------------------------|------------------|----------|-------------|------|
| 12.84   | 2.69 ng | 331921                              | Phenanthrene-d10 |          | 11.53       |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm  | CAS#        | Qual |
| 1       |         | Octadecanoic acid                   | 284              | C18H36O2 | 000057-11-4 | 99   |
| 2       |         | Pentadecanoic acid                  | 242              | C15H30O2 | 001002-84-2 | 91   |
| 3       |         | Octadecanoic acid, 2-(2-hydroxye... | 372              | C22H44O4 | 000106-11-6 | 90   |
| 4       |         | Tetradecanoic acid                  | 228              | C14H28O2 | 000544-63-8 | 87   |
| 5       |         | n-Decanoic acid                     | 172              | C10H20O2 | 000334-48-5 | 68   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100716\  
Data File : BF090473.D  
Acq On : 8 Oct 2016 7:49  
Operator : UM/SJ  
Sample : H5136-07  
Misc :  
ALS Vial : 35 Sample Multiplier: 1

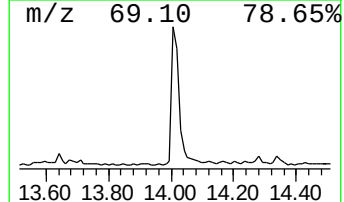
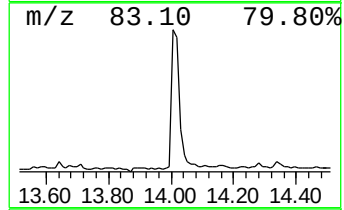
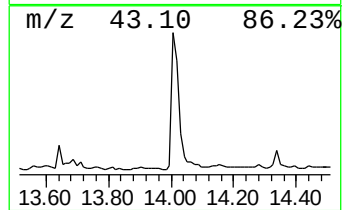
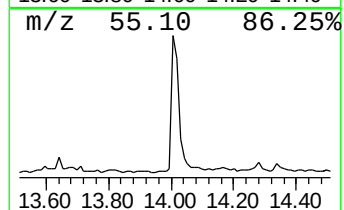
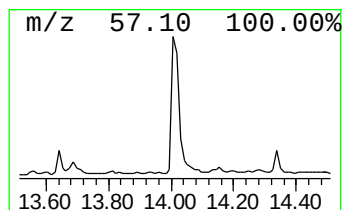
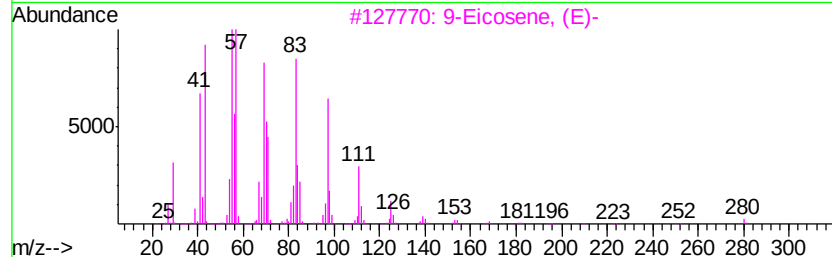
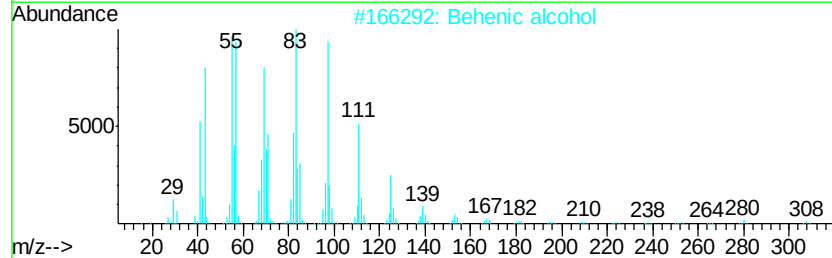
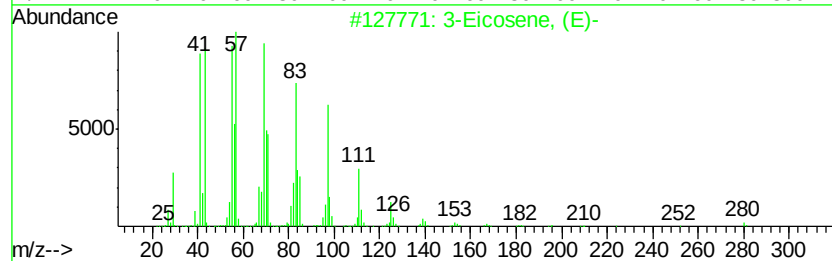
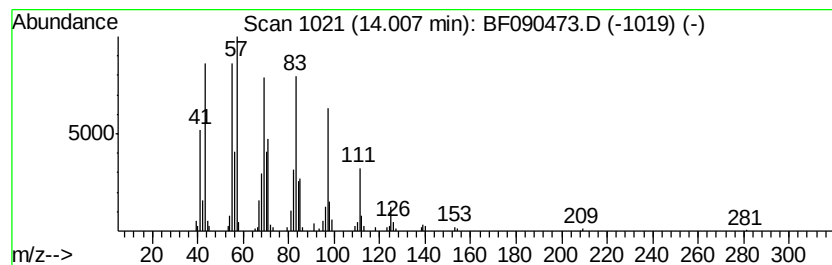
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ClientSampleId :  
100516-07

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF100516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 3-Eicosene, (E)- Concentration Rank 4

| R.T.    | EstConc                             | Area            | Relative to ISTD | R.T.      |
|---------|-------------------------------------|-----------------|------------------|-----------|
| 14.01   | 4.76 ng                             | 414504          | Chrysene-d12     | 14.18     |
| Hit# of | 5                                   | Tentative ID    | MW MolForm       | CAS# Qual |
| 1       | 3-Eicosene, (E)-                    | 280 C20H40      | 074685-33-9      | 95        |
| 2       | Behenic alcohol                     | 326 C22H46O     | 000661-19-8      | 94        |
| 3       | 9-Eicosene, (E)-                    | 280 C20H40      | 074685-29-3      | 91        |
| 4       | 1-Heneicosanol                      | 312 C21H44O     | 015594-90-8      | 91        |
| 5       | Trichloroacetic acid, tetradecyl... | 358 C16H29Cl3O2 | 074339-52-9      | 91        |





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Operator : UM/SJ  
Sample : H5136-07  
Misc :  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
100516-07

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF100516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

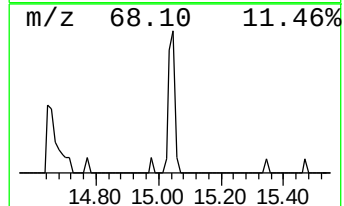
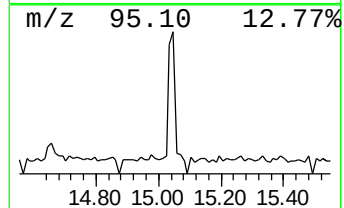
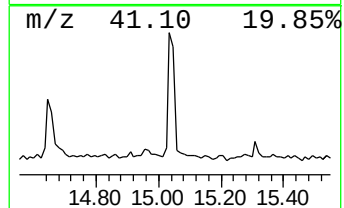
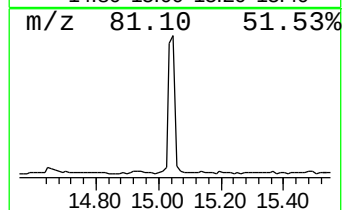
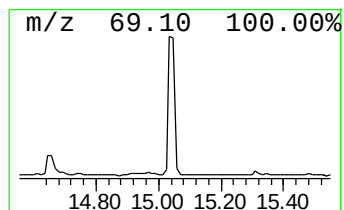
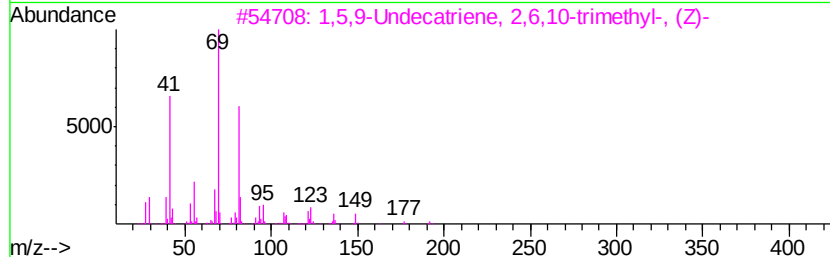
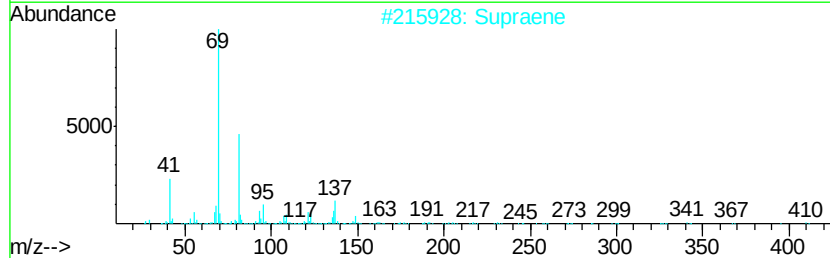
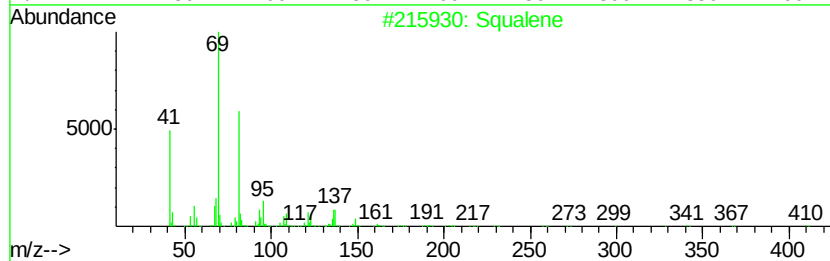
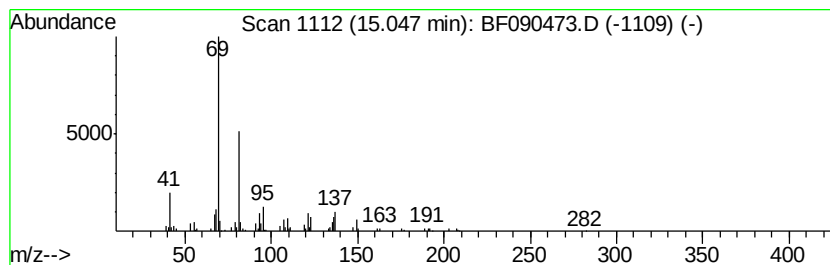
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Squalene Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.05 | 2.30 ng | 139379 | Perylene-d12     | 15.68 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Squalene                            | 410 | C30H50  | 000111-02-4  | 91   |
| 2    |    | Supraene                            | 410 | C30H50  | 007683-64-9  | 91   |
| 3    |    | 1,5,9-Undecatriene, 2,6,10-trime... | 192 | C14H24  | 062951-96-6  | 87   |
| 4    |    | Docosa-2,6,10,14,18-pentaen-22-a... | 384 | C27H44O | 1000163-04-7 | 83   |
| 5    |    | .psi.,.psi.-Carotene, 7,7',8,8',... | 547 | C40H66  | 000502-62-5  | 78   |



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Sample : H5136-07  
Misc :  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
100516-07

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF100516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 5.19  | 24.5    | ng    | 1740280  | 1                     | 6.99  | 1422300 | 20.0 |
| unknown6.76          | 6.76  | 97.3    | ng    | 6918620  | 1                     | 6.99  | 1422300 | 20.0 |
| Hexadecane           | 10.94 | 2.1     | ng    | 259398   | 4                     | 11.53 | 2466760 | 20.0 |
| n-Hexadecanoic acid  | 12.05 | 4.4     | ng    | 542628   | 4                     | 11.53 | 2466760 | 20.0 |
| Octadecanoic acid    | 12.84 | 2.7     | ng    | 331921   | 4                     | 11.53 | 2466760 | 20.0 |
| 3-Eicosene, (E)-     | 14.01 | 4.8     | ng    | 414504   | 5                     | 14.18 | 1741040 | 20.0 |
| Squalene             | 15.05 | 2.3     | ng    | 139379   | 6                     | 15.68 | 1214450 | 20.0 |