

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100716\  
 Data File : BF090469.D  
 Acq On : 8 Oct 2016 5:59  
 Operator : UM/SJ  
 Sample : H5120-05  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RAV-GT-106

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         | 5.172       | 246           | 248         | 251          | rBV      | 398473         | 453828        | 6.13%           | 0.903%        |
| 2         | 5.594       | 282           | 285         | 288          | rBV      | 3034557        | 2653667       | 35.85%          | 5.279%        |
| 3         | 6.612       | 371           | 374         | 376          | rBV      | 2187015        | 1858342       | 25.10%          | 3.697%        |
| 4         | 6.760       | 384           | 387         | 389          | rBV      | 4316773        | 5226293       | 70.60%          | 10.396%       |
| 5         | 6.989       | 404           | 407         | 409          | rBV      | 1277342        | 1358248       | 18.35%          | 2.702%        |
| 6         | 7.149       | 418           | 421         | 423          | rVB      | 3466475        | 4514128       | 60.98%          | 8.980%        |
| 7         | 7.549       | 453           | 456         | 458          | rBV      | 3732159        | 3757366       | 50.76%          | 7.474%        |
| 8         | 8.269       | 517           | 519         | 521          | rBV      | 1627779        | 1865374       | 25.20%          | 3.711%        |
| 9         | 9.355       | 611           | 614         | 616          | rBV      | 7559781        | 7088189       | 95.75%          | 14.100%       |
| 10        | 9.743       | 646           | 648         | 650          | rBV      | 371884         | 305661        | 4.13%           | 0.608%        |
| 11        | 10.041      | 671           | 674         | 676          | rBV      | 1750910        | 2179090       | 29.44%          | 4.335%        |
| 12        | 10.829      | 740           | 743         | 745          | rBV      | 4759540        | 4624201       | 62.47%          | 9.199%        |
| 13        | 10.944      | 750           | 753         | 755          | rVV2     | 61423          | 86808         | 1.17%           | 0.173%        |
| 14        | 11.526      | 801           | 804         | 806          | rBV      | 2731818        | 2296999       | 31.03%          | 4.569%        |
| 15        | 12.052      | 848           | 850         | 852          | rBV      | 611117         | 565532        | 7.64%           | 1.125%        |
| 16        | 12.761      | 909           | 912         | 913          | rBV2     | 49056          | 90171         | 1.22%           | 0.179%        |
| 17        | 12.841      | 917           | 919         | 926          | rBV      | 659802         | 704444        | 9.52%           | 1.401%        |
| 18        | 13.115      | 941           | 943         | 946          | rBV      | 5446066        | 7402618       | 100.00%         | 14.725%       |
| 19        | 14.018      | 1019          | 1022        | 1027         | rVB      | 143041         | 201578        | 2.72%           | 0.401%        |
| 20        | 14.178      | 1033          | 1036        | 1038         | rVB      | 1091686        | 1526938       | 20.63%          | 3.037%        |
| 21        | 15.001      | 1102          | 1108        | 1110         | rBV2     | 62598          | 205517        | 2.78%           | 0.409%        |
| 22        | 15.664      | 1163          | 1166        | 1169         | rBV      | 723475         | 1144593       | 15.46%          | 2.277%        |
| 23        | 18.076      | 1370          | 1377        | 1380         | rBV4     | 34433          | 161171        | 2.18%           | 0.321%        |

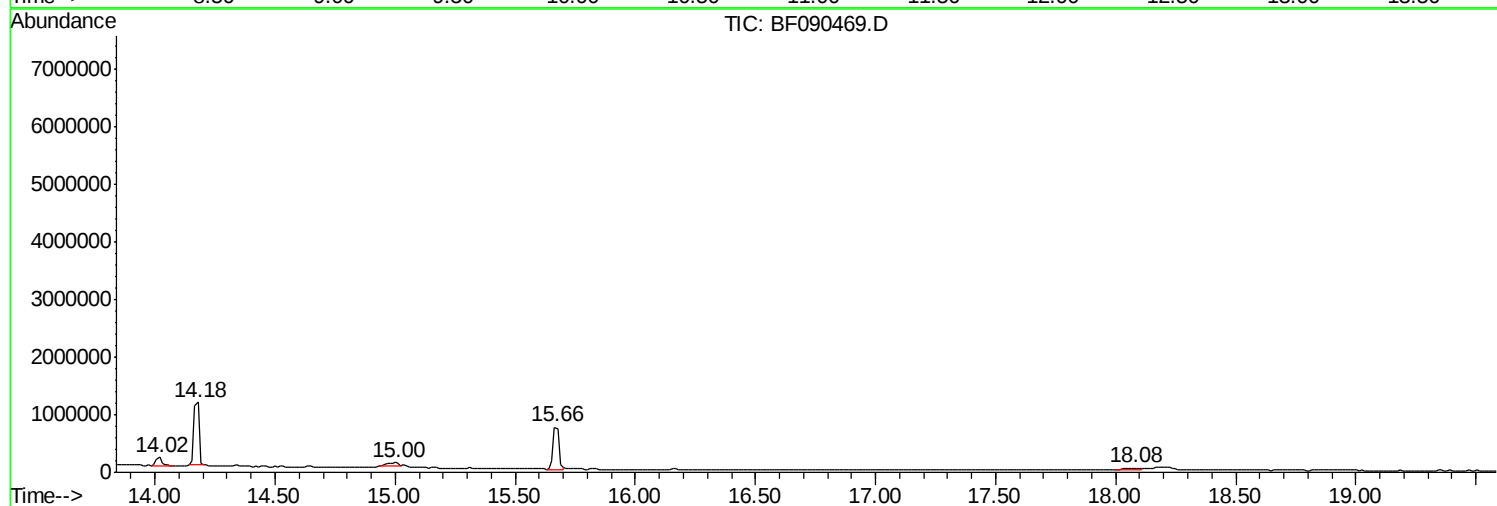
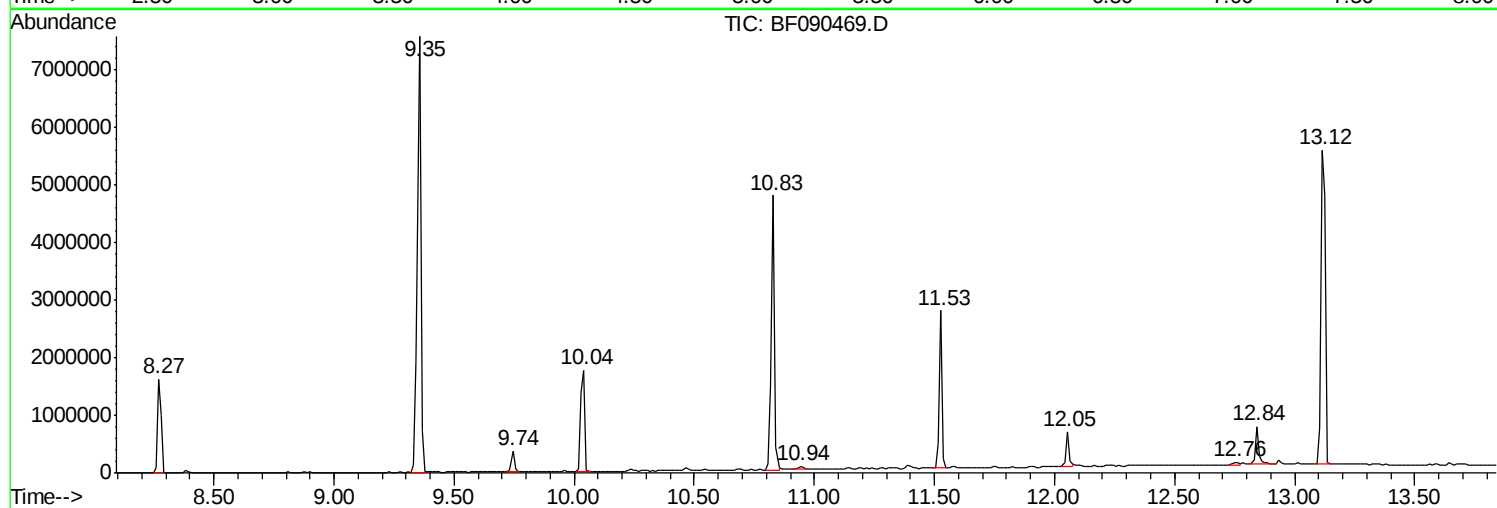
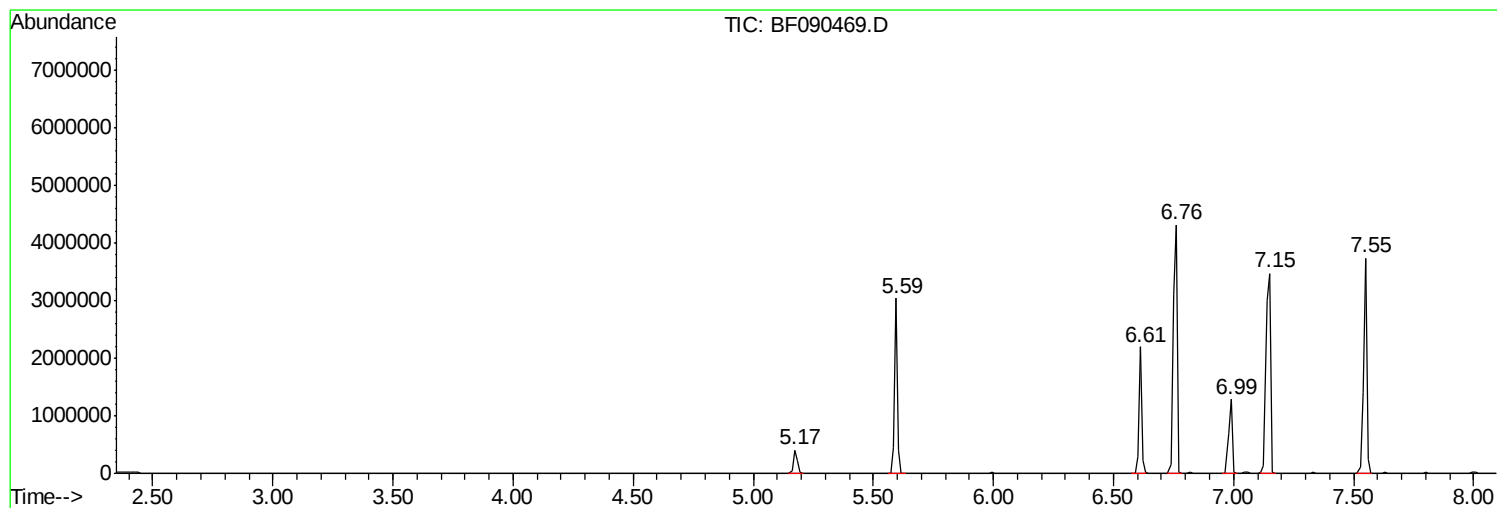
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ClientSampleId :  
RAV-GT-106

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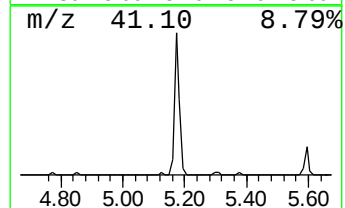
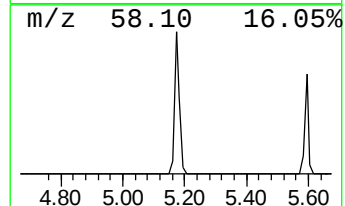
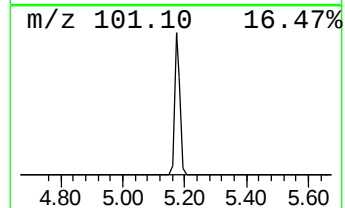
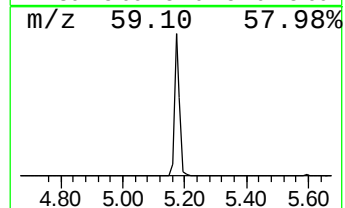
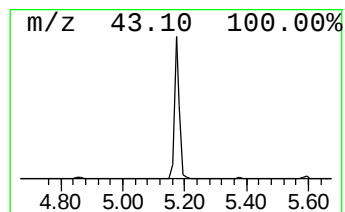
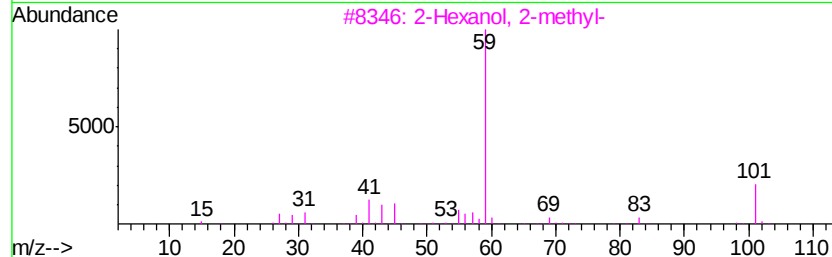
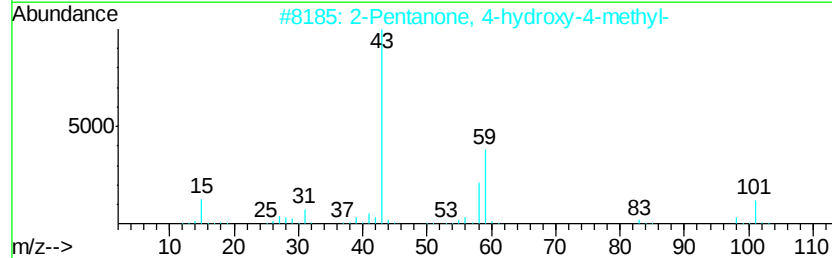
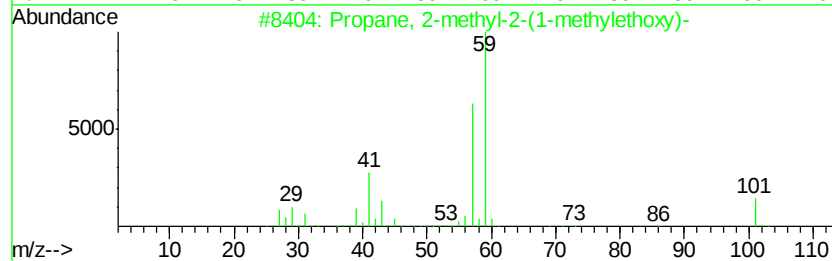
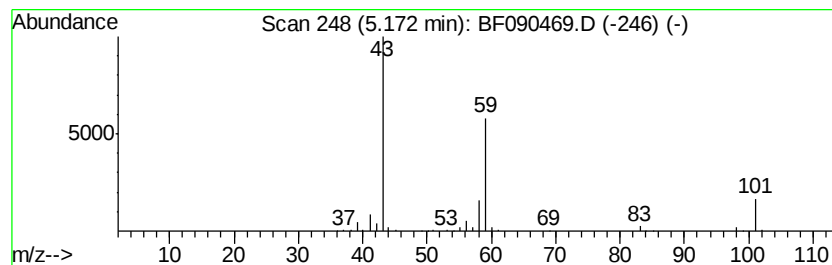
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Propane, 2-methyl-2-(1-meth... Concentration Rank 3

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.17 | 6.68 ng | 453828 | 1,4-Dichlorobenzene-d4 | 6.99 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O  | 017348-59-3 | 53   |
| 2    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 53   |
| 3    |    |   | 2-Hexanol, 2-methyl-                | 116 | C7H16O  | 000625-23-0 | 40   |
| 4    |    |   | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39   |
| 5    |    |   | 3-Octanol                           | 130 | C8H18O  | 000589-98-0 | 33   |



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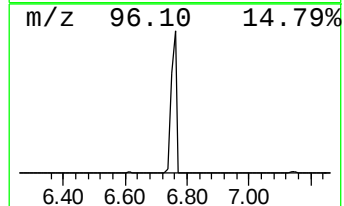
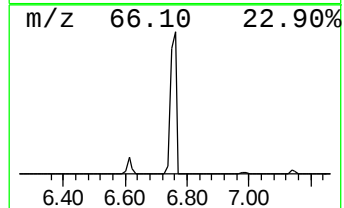
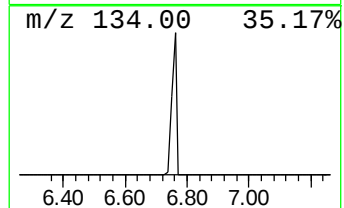
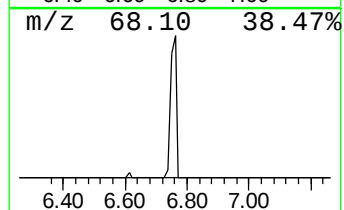
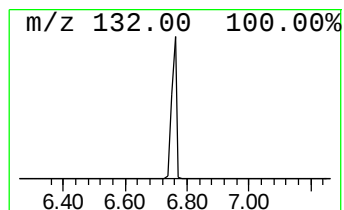
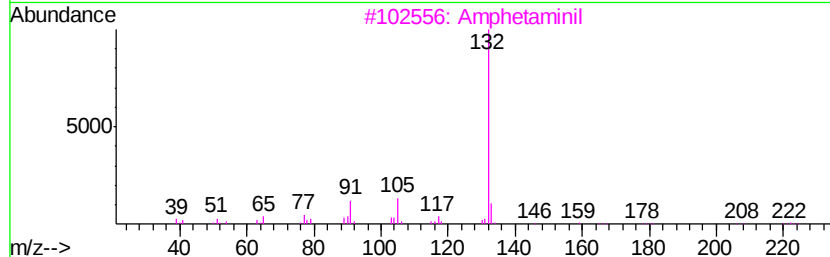
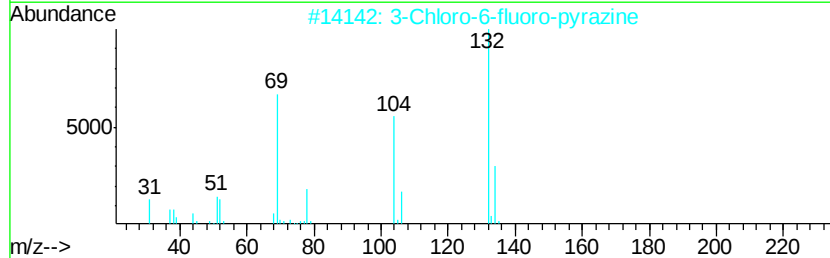
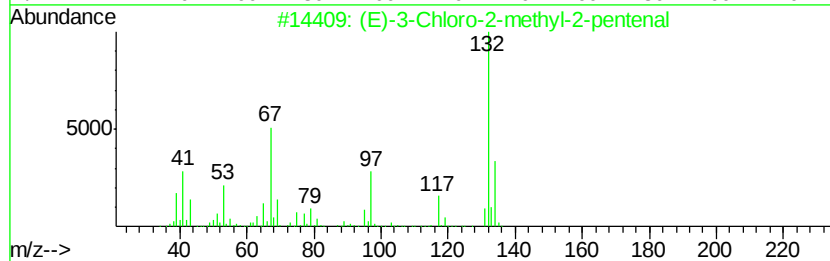
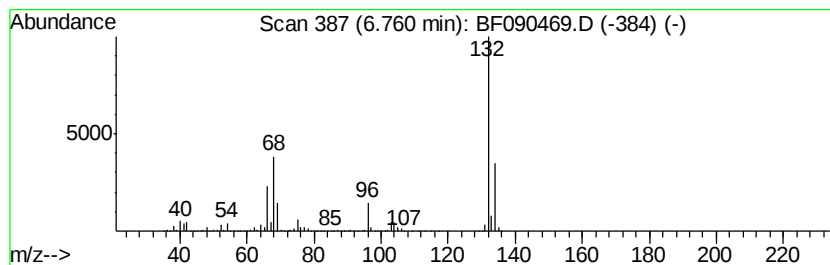
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF100516.M  
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.76 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.76 | 76.96 ng | 5226290 | 1,4-Dichlorobenzene-d4 | 6.99 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 3    |    | Amphetaminil                     | 250 | C17H18N2  | 017590-01-1  | 10   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 9    |



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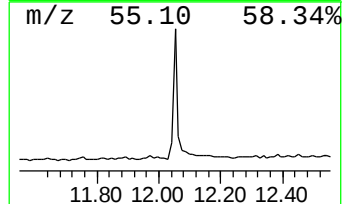
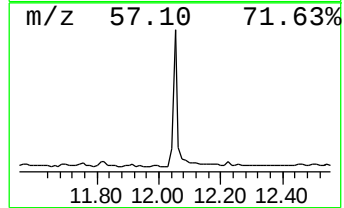
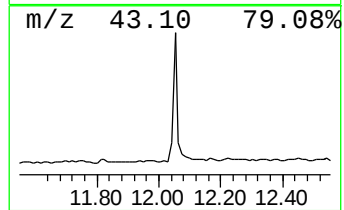
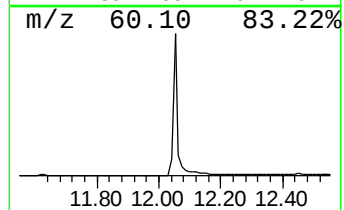
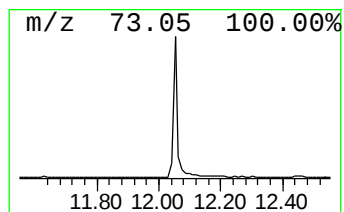
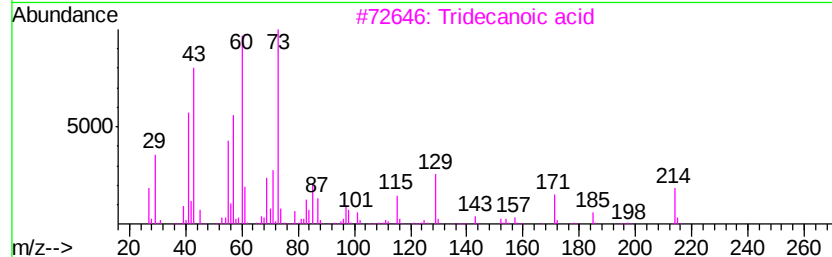
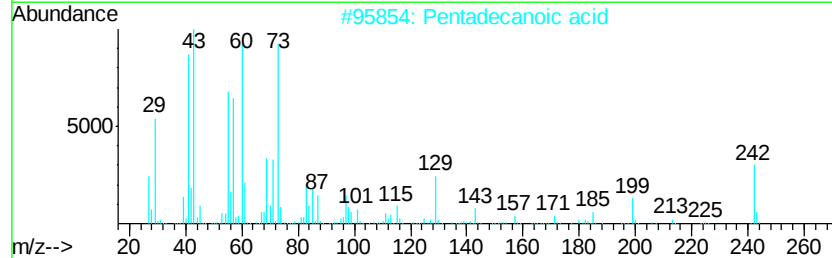
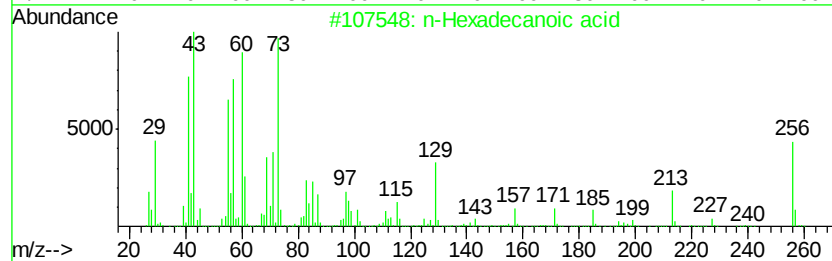
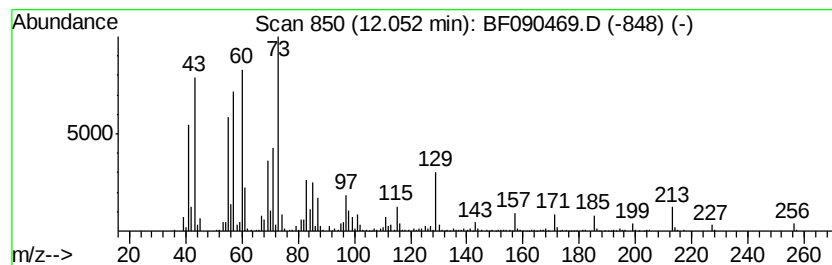
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 n-Hexadecanoic acid Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.05 | 4.92 ng | 565532 | Phenanthrene-d10 | 11.53 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98   |
| 2       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 86   |
| 3       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 81   |
| 4       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 72   |
| 5       |   | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 62   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF100516.M  
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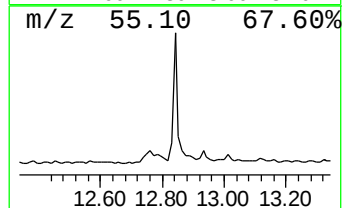
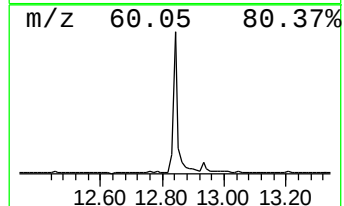
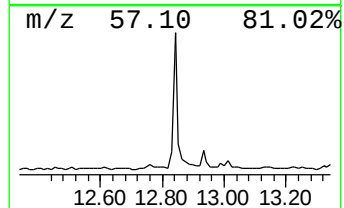
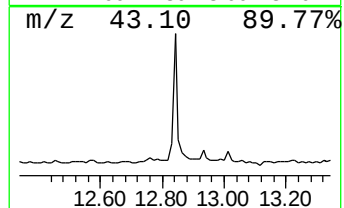
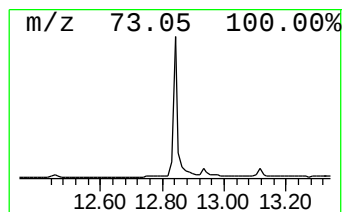
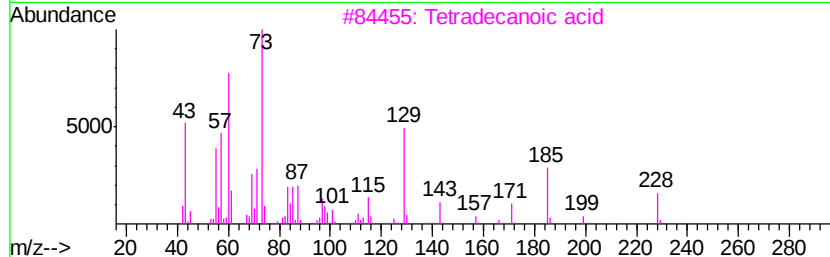
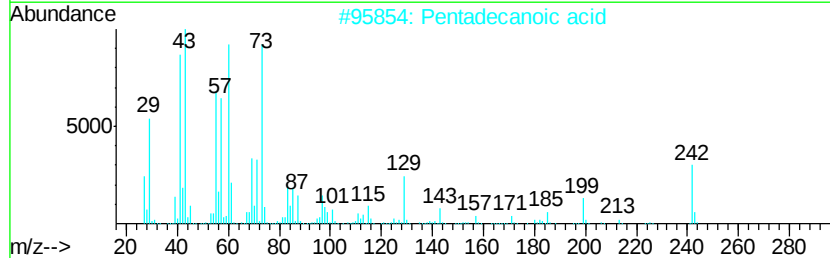
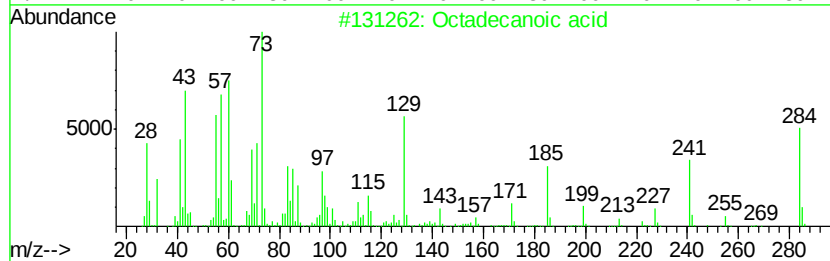
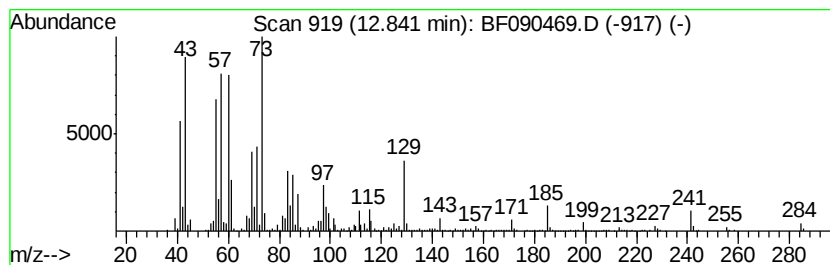
TIC Library : C:\DATABASE\NIST11.L  
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Peak Number 5 Octadecanoic acid Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.84 | 6.13 ng | 704444 | 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 | 94   |
| 3       |   | Tetradecanoic acid    | 228 | C14H28O2 | 000544-63-8 | 89   |
| 4       |   | Undecane, 5-methyl-   | 170 | C12H26   | 001632-70-8 | 25   |
| 5       |   | Decane, 3,8-dimethyl- | 170 | C12H26   | 017312-55-9 | 25   |



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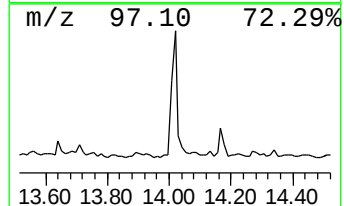
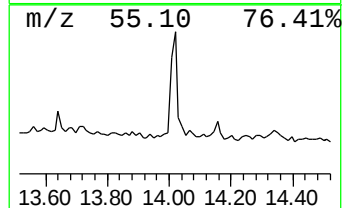
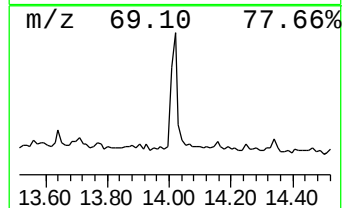
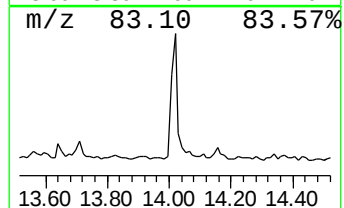
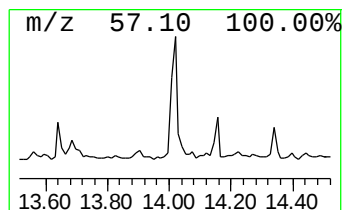
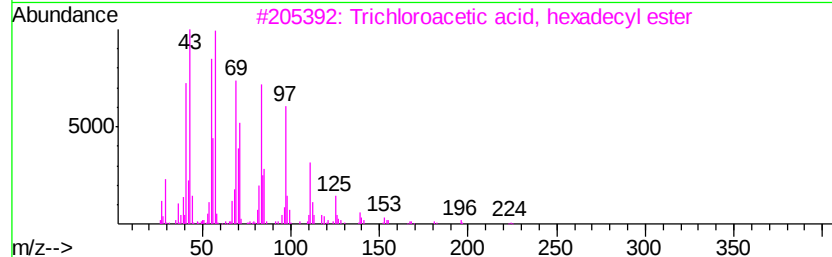
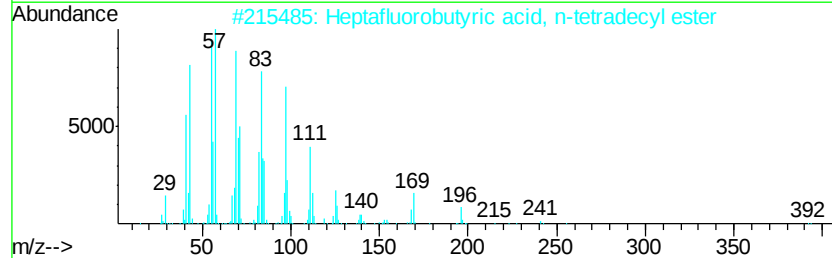
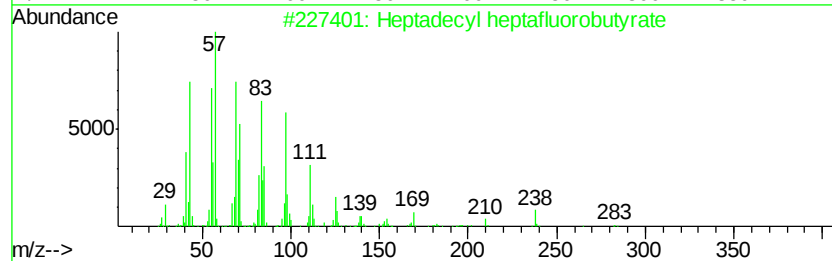
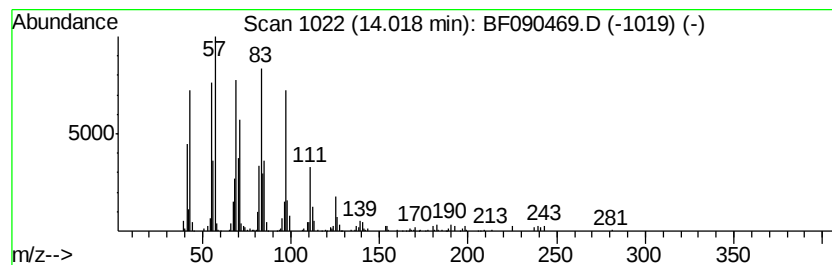
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Heptadecyl heptafluorobutyrate Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.02 | 2.64 ng | 201578 | Chrysene-d12     | 14.18 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|---------|---|-------------------------------------|-----|-------------|-------------|------|
| 1       |   | Heptadecyl heptafluorobutyrate      | 452 | C21H35F7O2  | 959085-66-6 | 94   |
| 2       |   | Heptafluorobutyric acid, n-tetra... | 410 | C18H29F7O2  | 007365-36-8 | 93   |
| 3       |   | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 91   |
| 4       |   | Heptafluorobutyric acid, penta...   | 424 | C19H31F7O2  | 959261-23-5 | 91   |
| 5       |   | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2  | 959092-08-1 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100716\  
Data File : BF090469.D  
Acq On : 8 Oct 2016 5:59  
Operator : UM/SJ  
Sample : H5120-05  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAV-GT-106

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

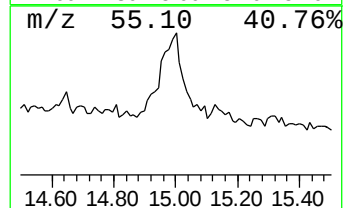
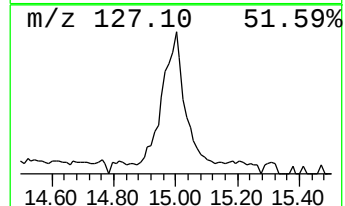
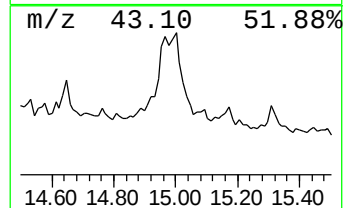
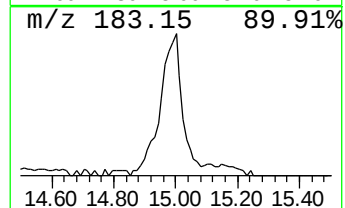
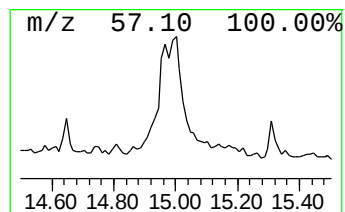
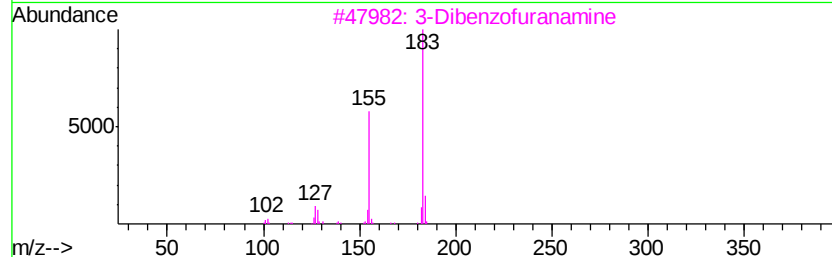
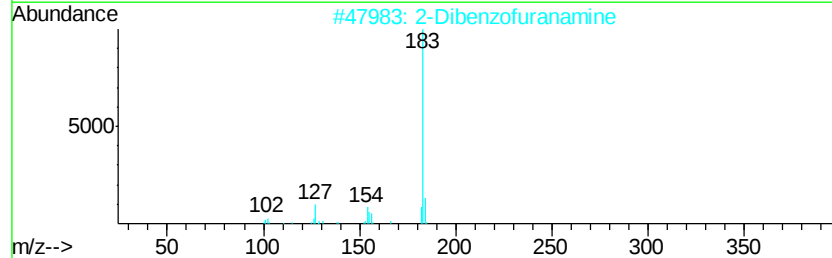
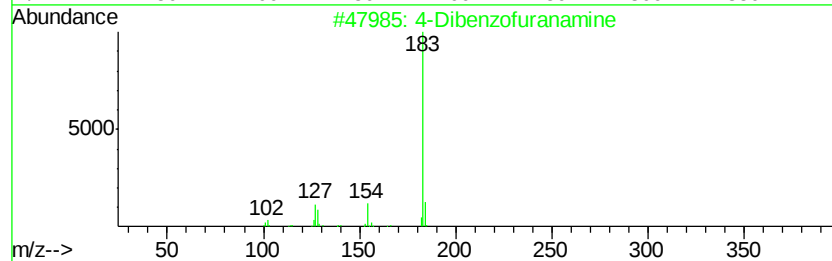
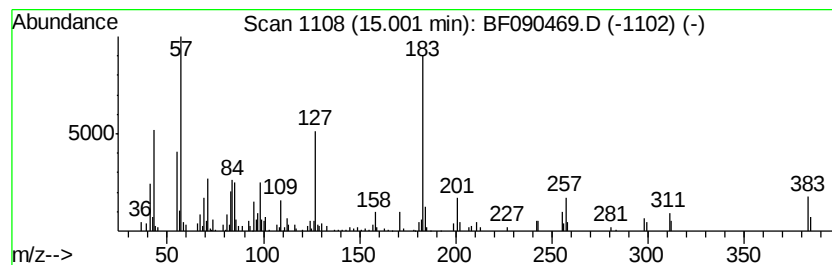
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 unknown15.00 Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.00 | 3.59 ng | 205517 | Perylene-d12     | 15.68 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 4-Dibenzofuranamine                 | 183 | C12H9NO    | 050548-43-1  | 47   |
| 2    |    | 2-Dibenzofuranamine                 | 183 | C12H9NO    | 003693-22-9  | 47   |
| 3    |    | 3-Dibenzofuranamine                 | 183 | C12H9NO    | 004106-66-5  | 47   |
| 4    |    | 1-[p-Bromophenyl]-4-nitro-1,3-bu... | 253 | C10H8BrN02 | 004995-05-5  | 43   |
| 5    |    | Fumaric acid, 6-ethyloct-3-yl he... | 340 | C20H36O4   | 1000339-15-3 | 43   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100716\  
Data File : BF090469.D  
Acq On : 8 Oct 2016 5:59  
Operator : UM/SJ  
Sample : H5120-05  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAV-GT-106

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

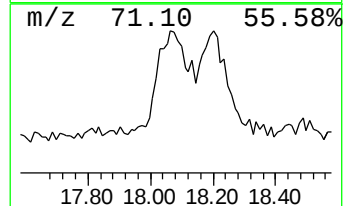
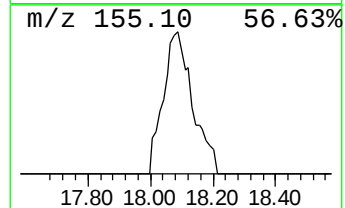
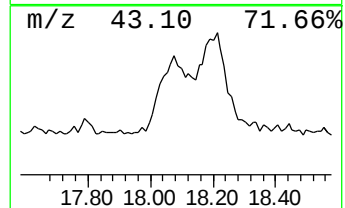
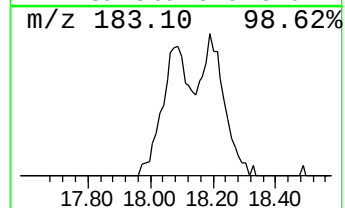
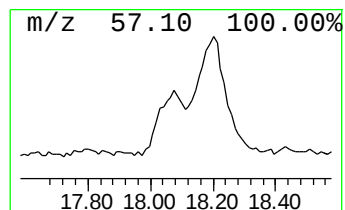
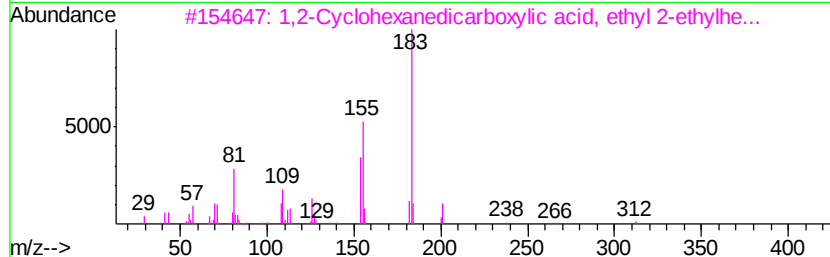
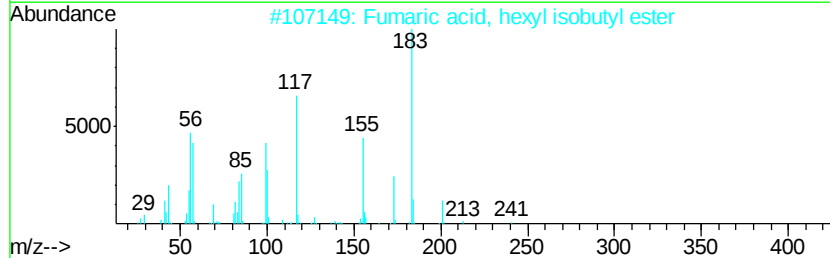
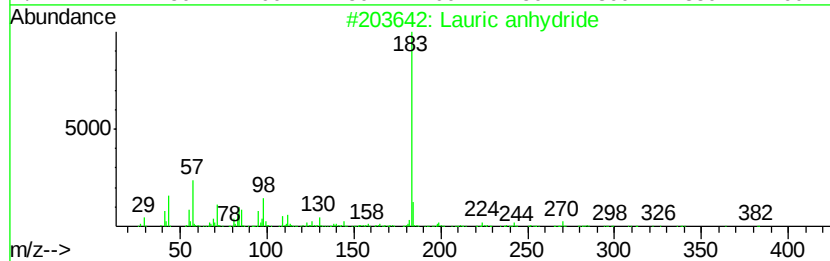
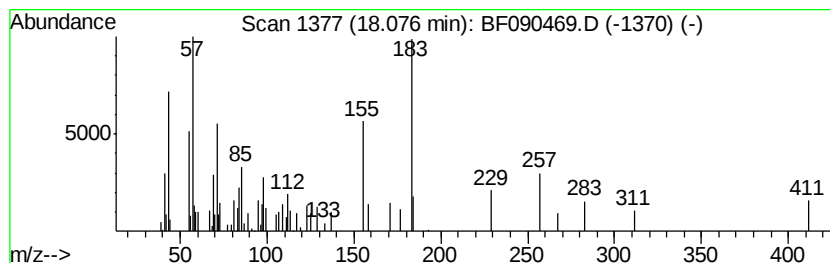
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 unknown18.08 Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.08 | 2.82 ng | 161171 | Perylene-d12     | 15.68 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|---------|---|-------------------------------------|-----|----------|--------------|------|
| 1       |   | Lauric anhydride                    | 382 | C24H46O3 | 000645-66-9  | 43   |
| 2       |   | Fumaric acid, hexyl isobutyl ester  | 256 | C14H24O4 | 1000330-43-0 | 40   |
| 3       |   | 1,2-Cyclohexanedicarboxylic acid... | 312 | C18H32O4 | 1000339-45-3 | 38   |
| 4       |   | Dodecanoic acid, ethenyl ester      | 226 | C14H26O2 | 002146-71-6  | 35   |
| 5       |   | Dodecanoic acid, isooctyl ester     | 312 | C20H40O2 | 084713-06-4  | 32   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100716\  
Data File : BF090469.D  
Acq On : 8 Oct 2016 5:59  
Operator : UM/SJ  
Sample : H5120-05  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAV-GT-106

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 |
| Propane, 2-methyl... | 5.17  | 6.7     | ng    | 453828   | 1                     | 6.99  | 1358250 | 20.0 |
| unknown6.76          | 6.76  | 77.0    | ng    | 5226290  | 1                     | 6.99  | 1358250 | 20.0 |
| n-Hexadecanoic acid  | 12.05 | 4.9     | ng    | 565532   | 4                     | 11.53 | 2297000 | 20.0 |
| Octadecanoic acid    | 12.84 | 6.1     | ng    | 704444   | 4                     | 11.53 | 2297000 | 20.0 |
| Heptadecyl heptaf... | 14.02 | 2.6     | ng    | 201578   | 5                     | 14.18 | 1526940 | 20.0 |
| unknown15.00         | 15.00 | 3.6     | ng    | 205517   | 6                     | 15.68 | 1144590 | 20.0 |
| unknown18.08         | 18.08 | 2.8     | ng    | 161171   | 6                     | 15.68 | 1144590 | 20.0 |