

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051316\  
 Data File : BF086984.D  
 Acq On : 13 May 2016 21:51  
 Operator : UM/SJ  
 Sample : H2992-06  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 90THAVE-SB-31(0.5-10.0)

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-BF050916.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         | 1.735       | 12            | 13          | 50           | rVB      | 4545745        | 9272023       | 100.00%         | 19.309%       |
| 2         | 4.741       | 273           | 276         | 291          | rBV      | 686921         | 1091185       | 11.77%          | 2.272%        |
| 3         | 5.199       | 314           | 316         | 319          | rBV      | 3169897        | 3416542       | 36.85%          | 7.115%        |
| 4         | 6.273       | 407           | 410         | 417          | rBV      | 3520633        | 3705600       | 39.97%          | 7.717%        |
| 5         | 6.387       | 417           | 420         | 422          | rBV      | 3019488        | 3860869       | 41.64%          | 8.040%        |
| 6         | 6.605       | 437           | 439         | 442          | rBV      | 749034         | 953526        | 10.28%          | 1.986%        |
| 7         | 6.765       | 450           | 453         | 456          | rBV      | 3068212        | 2795703       | 30.15%          | 5.822%        |
| 8         | 7.187       | 487           | 490         | 492          | rBV      | 2474729        | 2752521       | 29.69%          | 5.732%        |
| 9         | 7.896       | 550           | 552         | 555          | rBV      | 1304195        | 1262844       | 13.62%          | 2.630%        |
| 10        | 8.982       | 644           | 647         | 649          | rBV      | 4059424        | 4334119       | 46.74%          | 9.026%        |
| 11        | 9.382       | 680           | 682         | 684          | rBV      | 286935         | 286222        | 3.09%           | 0.596%        |
| 12        | 9.645       | 702           | 705         | 708          | rBV      | 1493931        | 1443347       | 15.57%          | 3.006%        |
| 13        | 10.091      | 742           | 744         | 746          | rVB      | 125762         | 104655        | 1.13%           | 0.218%        |
| 14        | 10.433      | 771           | 774         | 777          | rBV      | 2694708        | 2734806       | 29.50%          | 5.695%        |
| 15        | 10.559      | 783           | 785         | 790          | rVB      | 126669         | 141688        | 1.53%           | 0.295%        |
| 16        | 11.119      | 832           | 834         | 837          | rBV      | 1323051        | 1452825       | 15.67%          | 3.026%        |
| 17        | 11.371      | 853           | 856         | 860          | rBV      | 99688          | 186749        | 2.01%           | 0.389%        |
| 18        | 11.668      | 880           | 882         | 886          | rBV      | 76640          | 149640        | 1.61%           | 0.312%        |
| 19        | 12.182      | 925           | 927         | 938          | rVB      | 239865         | 521079        | 5.62%           | 1.085%        |
| 20        | 12.708      | 970           | 973         | 976          | rBV      | 3787958        | 3965176       | 42.76%          | 8.258%        |
| 21        | 13.611      | 1050          | 1052        | 1061         | rBV      | 193061         | 430360        | 4.64%           | 0.896%        |
| 22        | 13.748      | 1061          | 1064        | 1071         | rVB      | 1676219        | 1635440       | 17.64%          | 3.406%        |
| 23        | 14.514      | 1128          | 1131        | 1135         | rBV      | 222177         | 307569        | 3.32%           | 0.641%        |
| 24        | 15.108      | 1180          | 1183        | 1186         | rBV      | 967199         | 1119133       | 12.07%          | 2.331%        |
| 25        | 16.788      | 1327          | 1330        | 1340         | rVB6     | 22913          | 95225         | 1.03%           | 0.198%        |

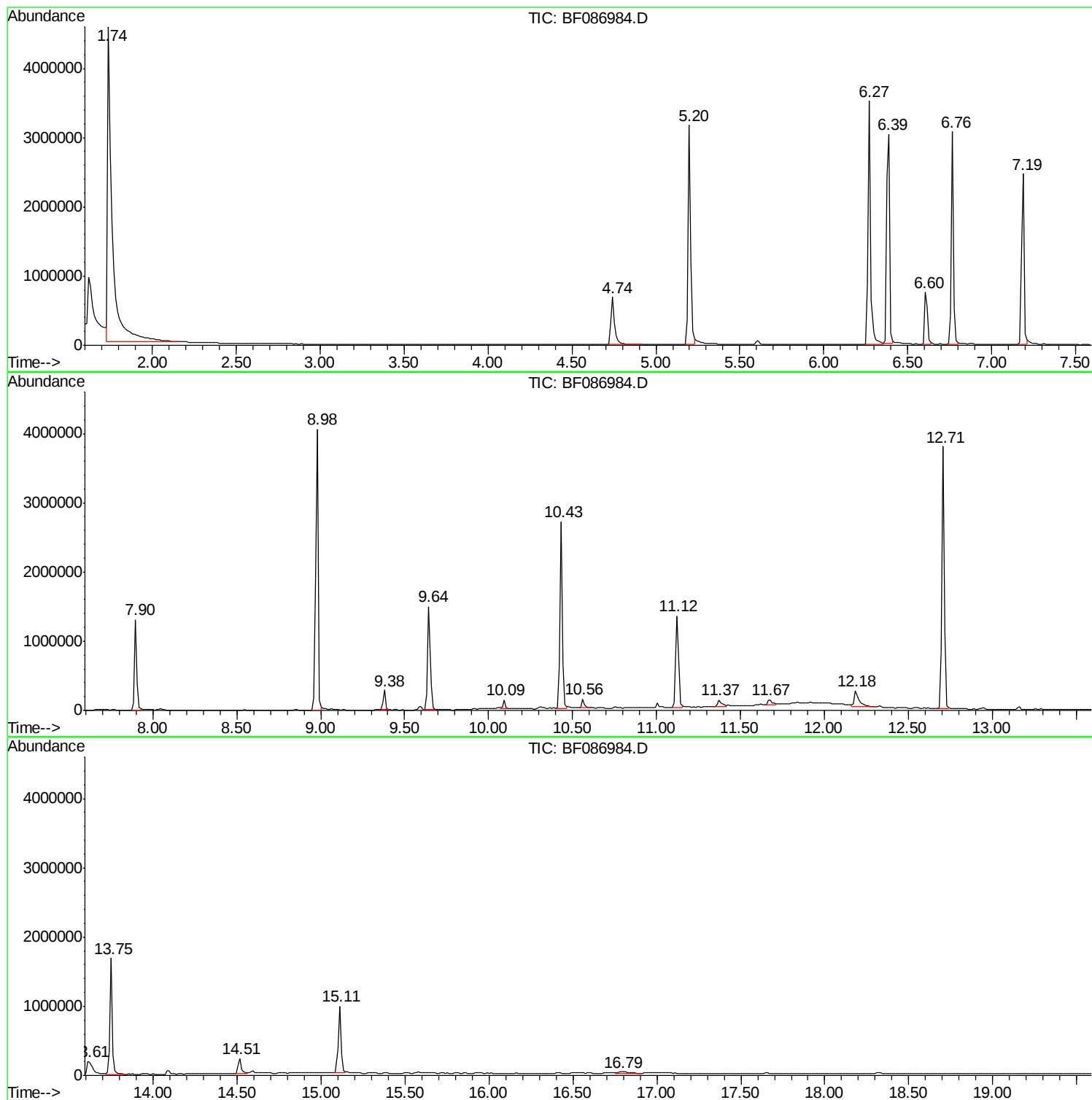
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Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
90THAVE-SB-31(0.5-10.0)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.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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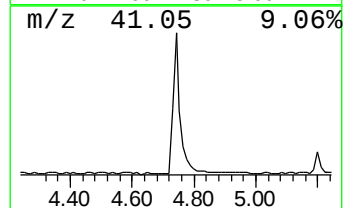
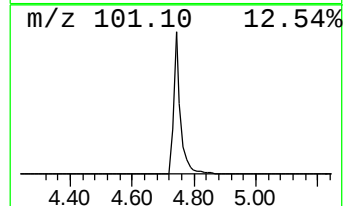
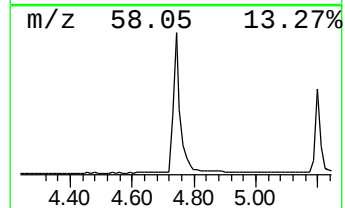
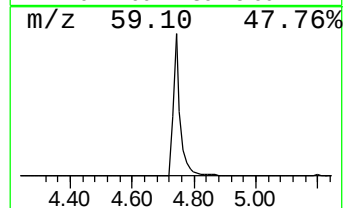
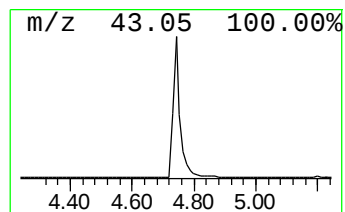
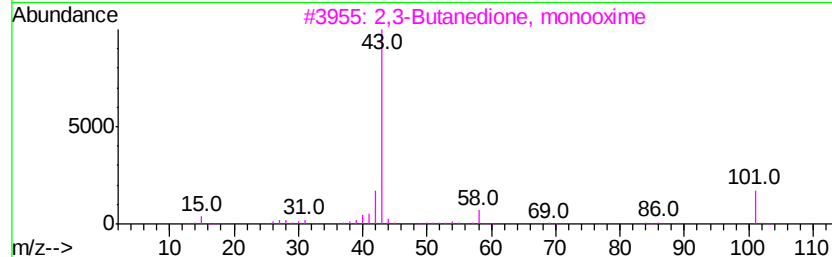
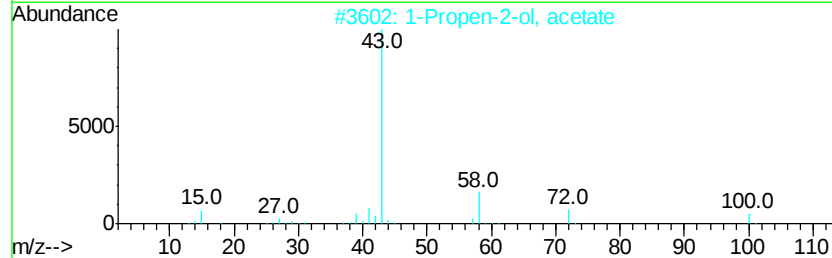
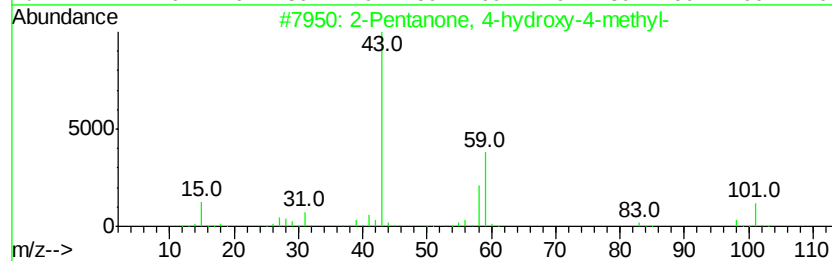
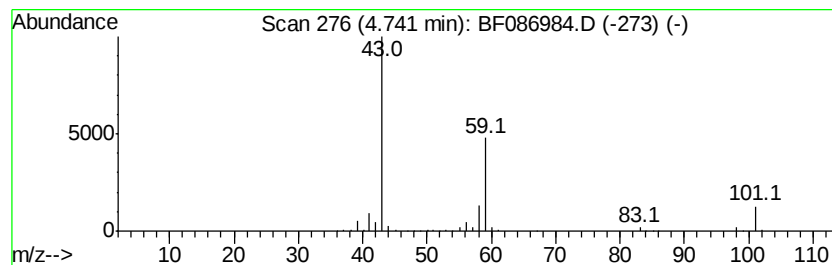
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 4.74 | 22.89 ng | 1091190 | 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 | 50   |
| 2    |    |   | 1-Propen-2-ol, acetate           | 100 | C5H8O2  | 000108-22-5 | 10   |
| 3    |    |   | 2,3-Butanedione, monooxime       | 101 | C4H7NO2 | 000057-71-6 | 9    |
| 4    |    |   | 2-Propanone, 1-(1-methylethoxy)- | 116 | C6H12O2 | 042781-12-4 | 9    |
| 5    |    |   | Formamide, N,N-diethyl-          | 101 | C5H11NO | 000617-84-5 | 7    |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

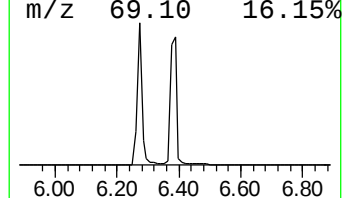
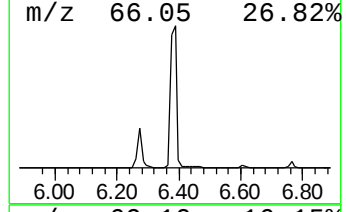
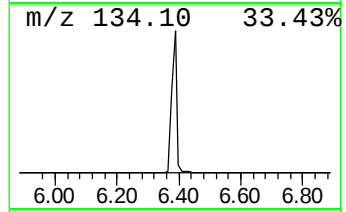
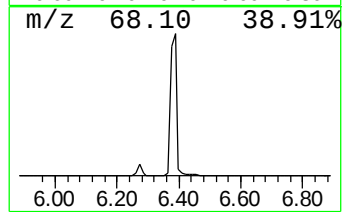
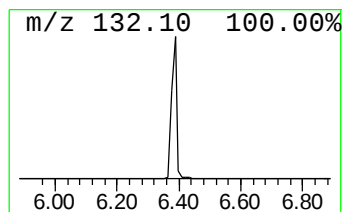
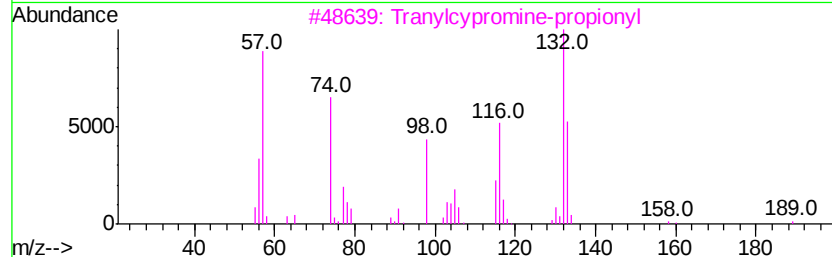
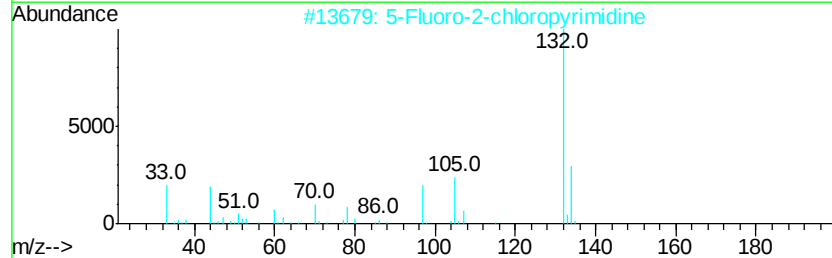
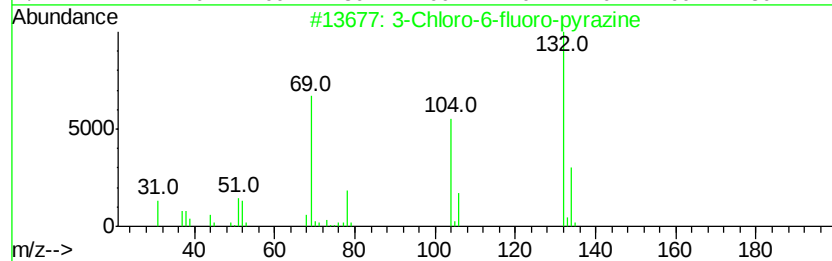
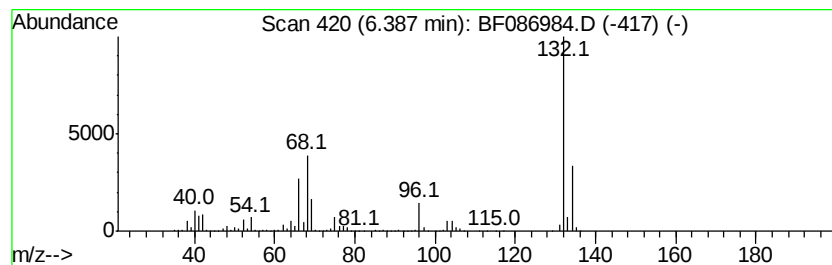
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown6.39 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.39 | 80.98 ng | 3860870 | 1,4-Dichlorobenzene-d4 | 6.60 |

| Hit# | of                          | 5 | Tentative ID | MW  | MolForm   | CAS#         | Qual |
|------|-----------------------------|---|--------------|-----|-----------|--------------|------|
| 1    | 3-Chloro-6-fluoro-pyrazine  |   |              | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    | 5-Fluoro-2-chloropyrimidine |   |              | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 3    | Tranvlcvpromine-propionyl   |   |              | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    | Benzene, 1,2,4-trifluoro-   |   |              | 132 | C6H3F3    | 000367-23-7  | 9    |
| 5    | Benzene, 1,3,5-trifluoro-   |   |              | 132 | C6H3F3    | 000372-38-3  | 9    |



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BNA\_F  
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90THAVE-SB-31(0.5-10.0)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
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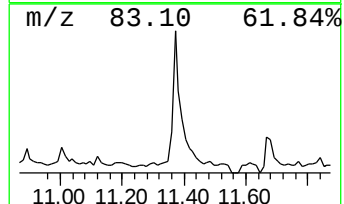
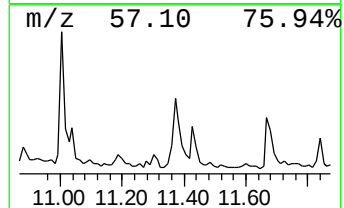
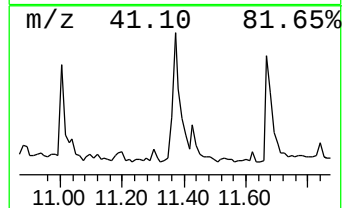
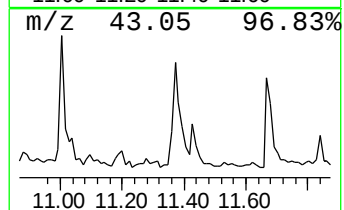
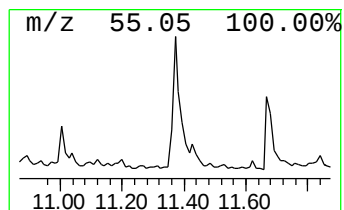
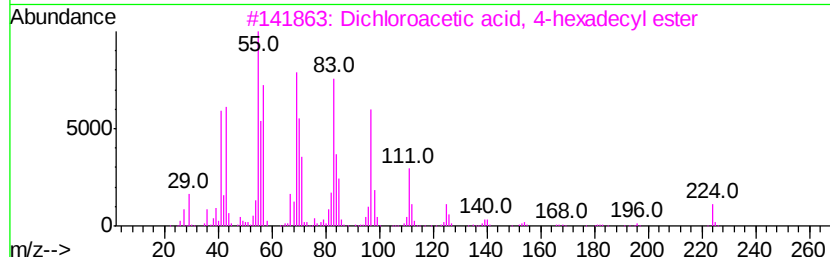
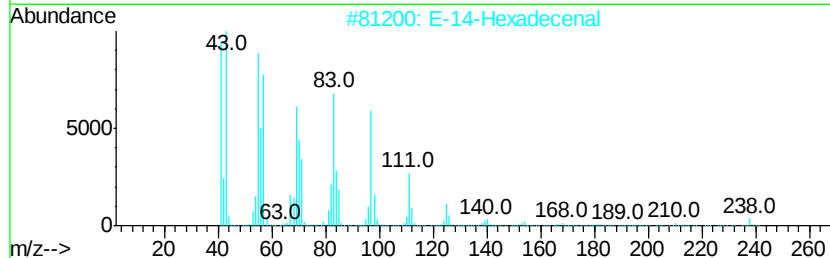
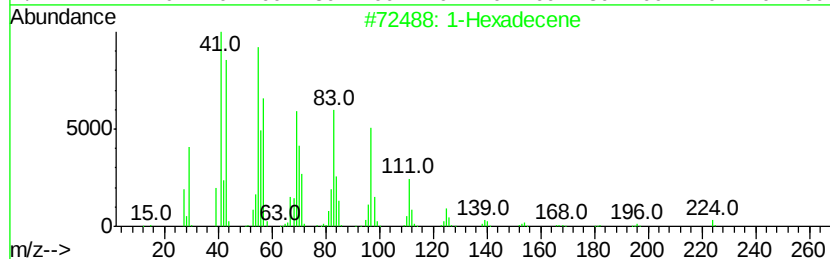
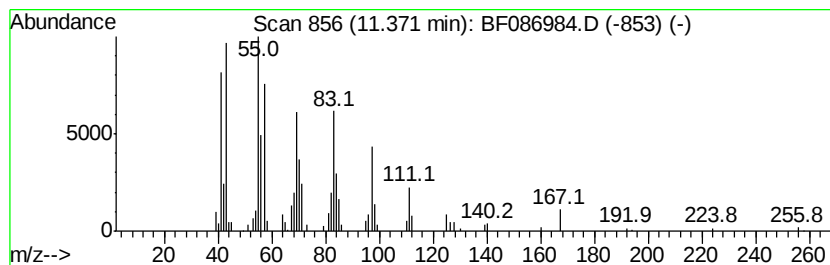
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 1-Hexadecene Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.37 | 2.57 ng | 186749 | Phenanthrene-d10 | 11.12 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm     | CAS#         | Qual |
|---------|-------------------------------------|--------------|-----|-------------|--------------|------|
| 1       | 1-Hexadecene                        |              | 224 | C16H32      | 000629-73-2  | 91   |
| 2       | E-14-Hexadecenal                    |              | 238 | C16H30O     | 330207-53-9  | 91   |
| 3       | Dichloroacetic acid, 4-hexadecyl... |              | 352 | C18H34Cl2O2 | 1000282-98-1 | 91   |
| 4       | 1-Hexadecanol                       |              | 242 | C16H34O     | 036653-82-4  | 91   |
| 5       | 1-Nonadecene                        |              | 266 | C19H38      | 018435-45-5  | 90   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
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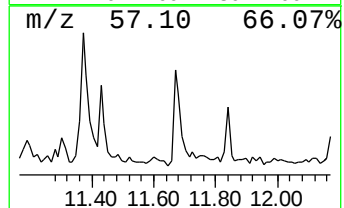
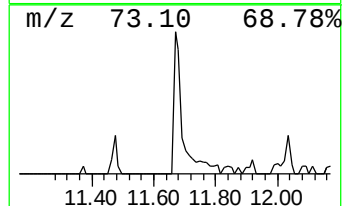
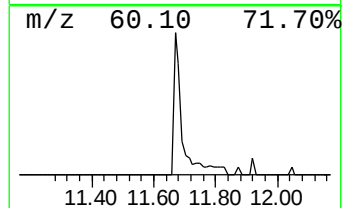
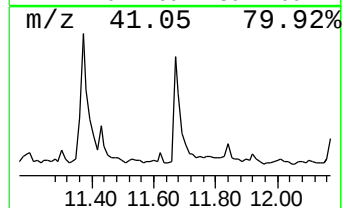
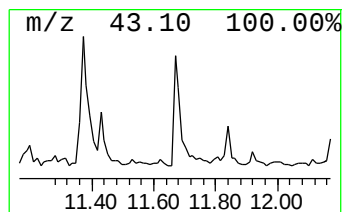
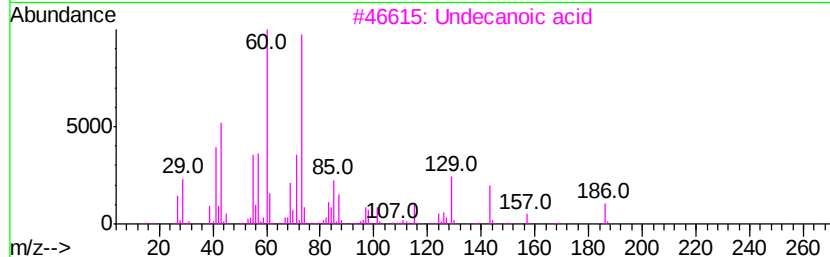
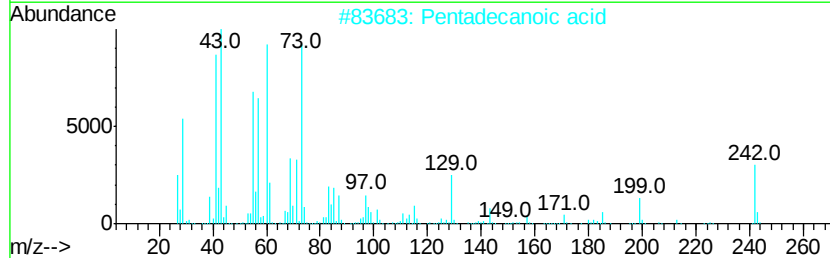
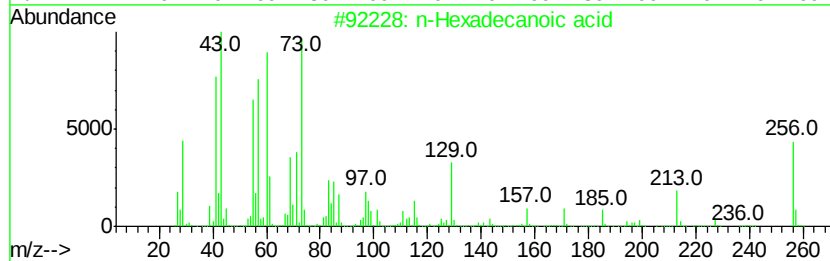
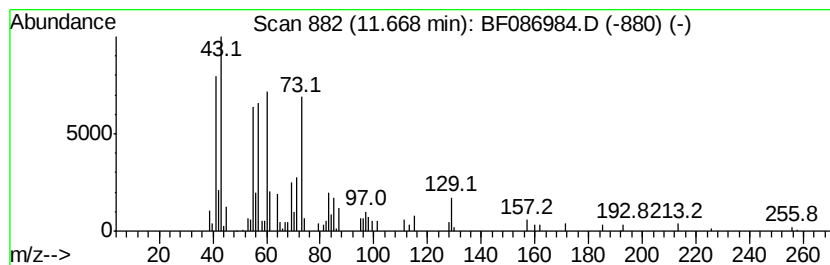
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 n-Hexadecanoic acid Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.67 | 2.06 ng | 149640 | Phenanthrene-d10 | 11.12 |

| Hit# of 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|-----------|---------------------|-----|----------|-------------|------|
| 1         | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97   |
| 2         | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 86   |
| 3         | Undecanoic acid     | 186 | C11H22O2 | 000112-37-8 | 64   |
| 4         | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 59   |
| 5         | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 53   |



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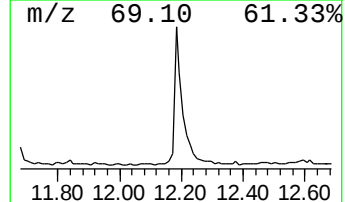
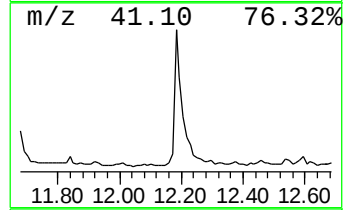
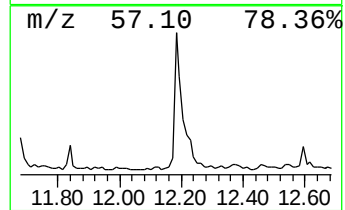
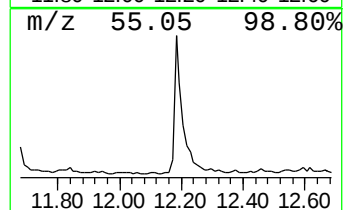
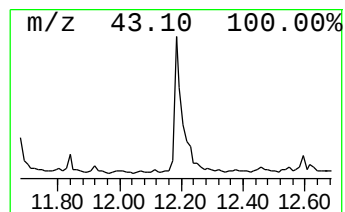
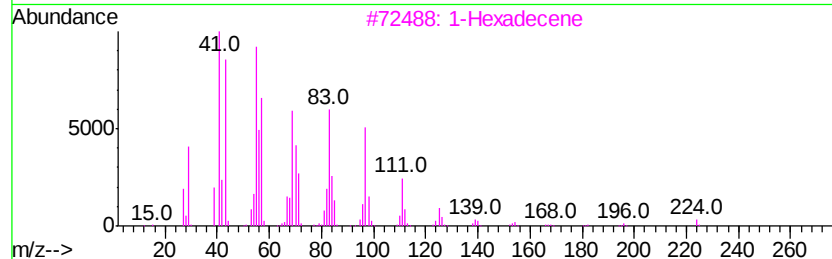
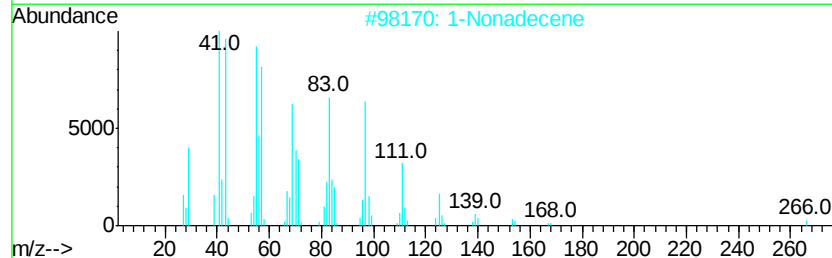
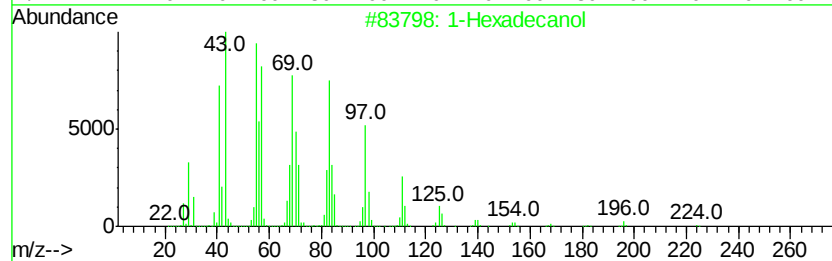
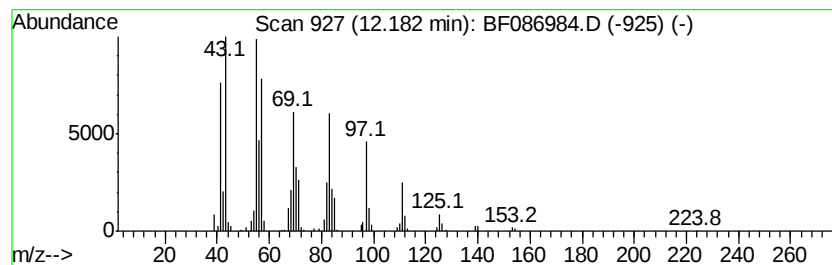
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 1-Hexadecanol Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.18 | 7.17 ng | 521079 | Phenanthrene-d10 | 11.12 |

| Hit# of | 5 | Tentative ID   | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------|-----|---------|-------------|------|
| 1       |   | 1-Hexadecanol  | 242 | C16H34O | 036653-82-4 | 91   |
| 2       |   | 1-Nonadecene   | 266 | C19H38  | 018435-45-5 | 91   |
| 3       |   | 1-Hexadecene   | 224 | C16H32  | 000629-73-2 | 91   |
| 4       |   | 1-Heptadecanol | 256 | C17H36O | 001454-85-9 | 90   |
| 5       |   | 11-Tricosene   | 322 | C23H46  | 052078-56-5 | 87   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051316\  
Data File : BF086984.D  
Acq On : 13 May 2016 21:51  
Operator : UM/SJ  
Sample : H2992-06  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

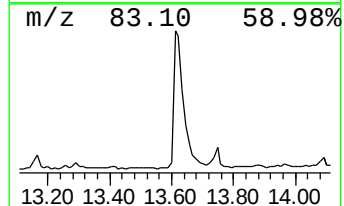
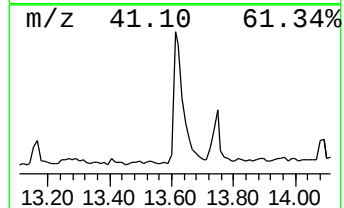
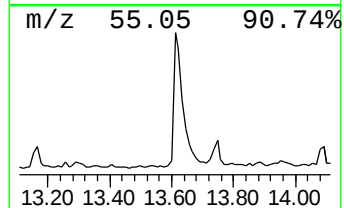
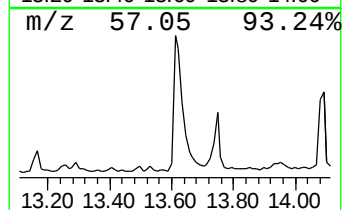
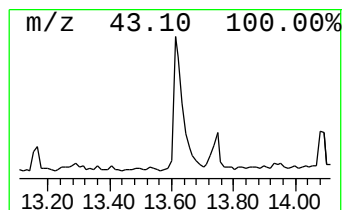
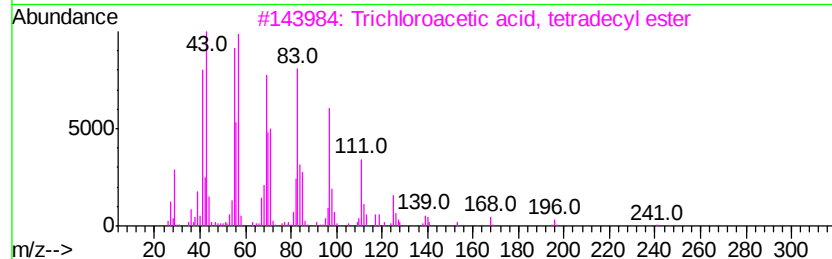
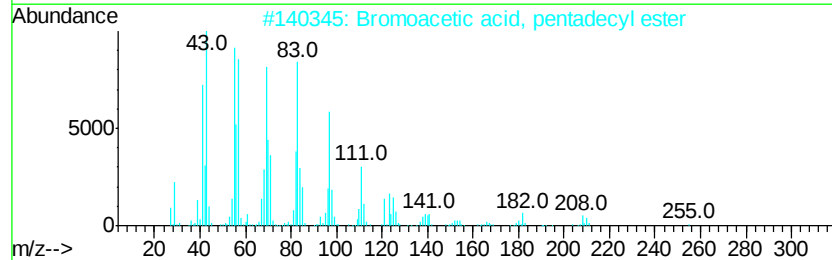
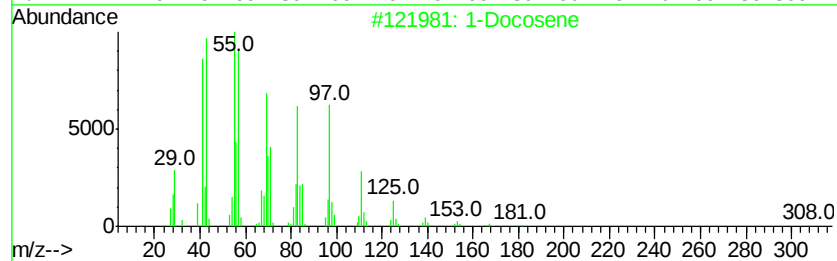
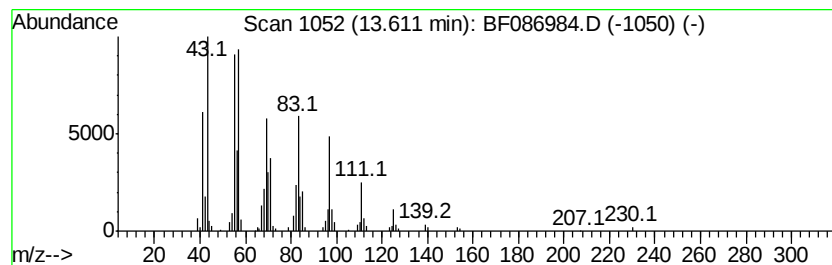
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ClientSampleId :  
90THAVE-SB-31(0.5-10.0)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.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 8 1-Docosene Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.61     | 5.26 ng                             | 430360 | Chrysene-d12     | 13.75       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 1-Docosene                          | 308    | C22H44           | 001599-67-3 | 95   |
| 2         | Bromoacetic acid, pentadecyl ester  | 348    | C17H33BrO2       | 131143-01-6 | 91   |
| 3         | Trichloroacetic acid, tetradecyl... | 358    | C16H29Cl3O2      | 074339-52-9 | 91   |
| 4         | 3-Eicosene, (E)-                    | 280    | C20H40           | 074685-33-9 | 91   |
| 5         | 1-Nonadecene                        | 266    | C19H38           | 018435-45-5 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051316\  
Data File : BF086984.D  
Acq On : 13 May 2016 21:51  
Operator : UM/SJ  
Sample : H2992-06  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
90THAVE-SB-31(0.5-10.0)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

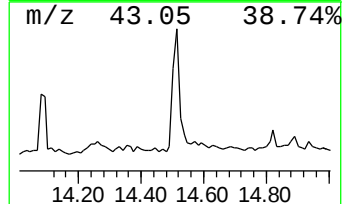
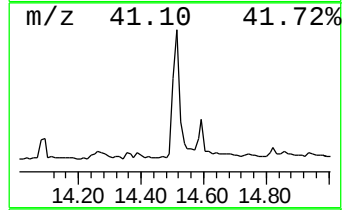
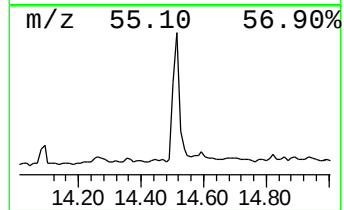
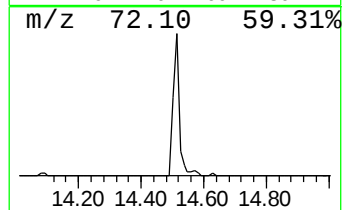
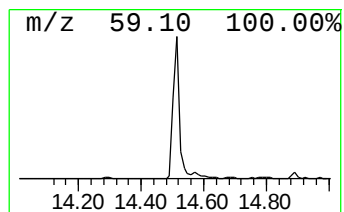
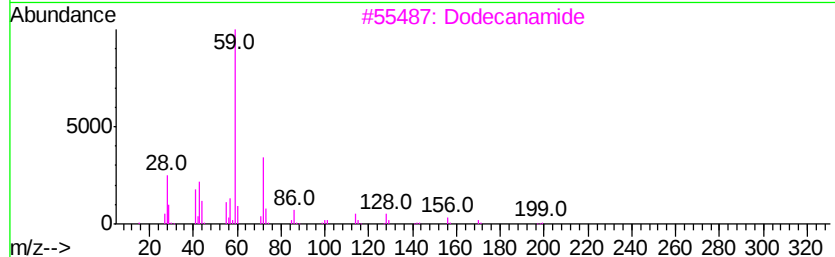
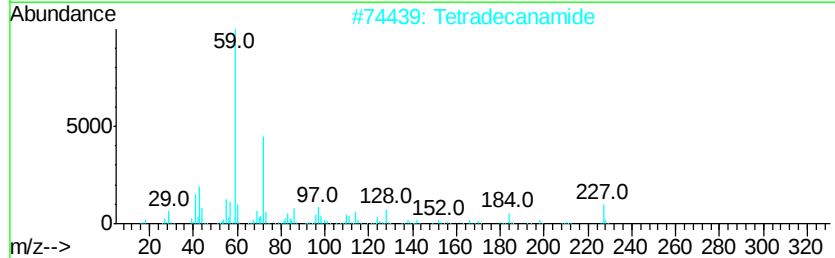
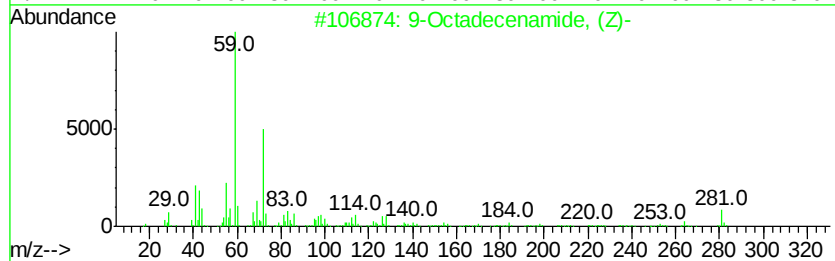
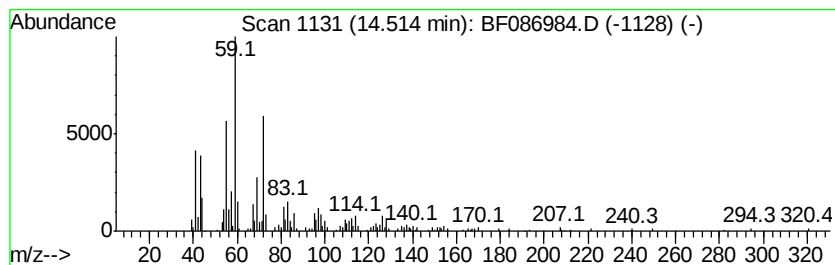
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 9-Octadecenamide, (Z)- Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.51 | 5.50 ng | 307569 | Perylene-d12     | 15.11 |

| Hit# | of | Tentative ID           | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------|-----|----------|-------------|------|
| 1    | 5  | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 86   |
| 2    |    | Tetradecanamide        | 227 | C14H29NO | 000638-58-4 | 78   |
| 3    |    | Dodecanamide           | 199 | C12H25NO | 001120-16-7 | 59   |
| 4    |    | Octadecanamide         | 283 | C18H37NO | 000124-26-5 | 59   |
| 5    |    | Hexadecanamide         | 255 | C16H33NO | 000629-54-9 | 59   |



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 Operator : UM/SJ  
 Sample : H2992-06  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 90THAVE-SB-31(0.5-10.0)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.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...  | 4.74  | 22.9    | ng    | 1091190  | 1                     | 6.60  | 953526  | 20.0 |
| unknown6.39           | 6.39  | 81.0    | ng    | 3860870  | 1                     | 6.60  | 953526  | 20.0 |
| 1-Hexadecene          | 11.37 | 2.6     | ng    | 186749   | 4                     | 11.12 | 1452830 | 20.0 |
| n-Hexadecanoic acid   | 11.67 | 2.1     | ng    | 149640   | 4                     | 11.12 | 1452830 | 20.0 |
| 1-Hexadecanol         | 12.18 | 7.2     | ng    | 521079   | 4                     | 11.12 | 1452830 | 20.0 |
| 1-Docosene            | 13.61 | 5.3     | ng    | 430360   | 5                     | 13.75 | 1635440 | 20.0 |
| 9-Octadecenamide, ... | 14.51 | 5.5     | ng    | 307569   | 6                     | 15.11 | 1119130 | 20.0 |