

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF030518\  
 Data File : BF103420.D  
 Acq On : 5 Mar 2018 20:30  
 Operator : SJ/JU  
 Sample : J1723-05  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-1

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-BF022218.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         | 5.093       | 508           | 511         | 521          | rBV      | 41406          | 63345         | 2.45%           | 0.241%        |
| 2         | 5.498       | 577           | 580         | 607          | rBV      | 1597302        | 2439102       | 94.32%          | 9.279%        |
| 3         | 6.516       | 749           | 753         | 772          | rBV      | 1951241        | 2585937       | 100.00%         | 9.838%        |
| 4         | 6.645       | 772           | 775         | 782          | rBV      | 2215595        | 2293518       | 88.69%          | 8.725%        |
| 5         | 6.875       | 810           | 814         | 821          | rBV      | 742308         | 778455        | 30.10%          | 2.961%        |
| 6         | 7.028       | 836           | 840         | 855          | rBV      | 1789124        | 1703787       | 65.89%          | 6.482%        |
| 7         | 7.439       | 906           | 910         | 924          | rBV      | 1446543        | 1534505       | 59.34%          | 5.838%        |
| 8         | 8.157       | 1028          | 1032        | 1051         | rVB      | 1051967        | 1140460       | 44.10%          | 4.339%        |
| 9         | 8.875       | 1150          | 1154        | 1160         | rBV      | 33493          | 38354         | 1.48%           | 0.146%        |
| 10        | 9.228       | 1210          | 1214        | 1223         | rBV      | 2472128        | 2293195       | 88.68%          | 8.724%        |
| 11        | 9.298       | 1223          | 1226        | 1229         | rVB      | 57414          | 49951         | 1.93%           | 0.190%        |
| 12        | 9.333       | 1229          | 1232        | 1237         | rBV      | 27159          | 28157         | 1.09%           | 0.107%        |
| 13        | 9.504       | 1256          | 1261        | 1265         | rBV3     | 16519          | 26206         | 1.01%           | 0.100%        |
| 14        | 9.575       | 1265          | 1273        | 1275         | rVV5     | 25138          | 36649         | 1.42%           | 0.139%        |
| 15        | 9.622       | 1275          | 1281        | 1287         | rVB      | 169631         | 203611        | 7.87%           | 0.775%        |
| 16        | 9.775       | 1304          | 1307        | 1312         | rBV      | 43614          | 52243         | 2.02%           | 0.199%        |
| 17        | 9.828       | 1312          | 1316        | 1319         | rVB      | 113490         | 90460         | 3.50%           | 0.344%        |
| 18        | 9.916       | 1327          | 1331        | 1334         | rBV      | 1285228        | 1115738       | 43.15%          | 4.245%        |
| 19        | 9.945       | 1334          | 1336        | 1340         | rVB      | 61803          | 59594         | 2.30%           | 0.227%        |
| 20        | 10.122      | 1362          | 1366        | 1369         | rBV2     | 45765          | 52714         | 2.04%           | 0.201%        |
| 21        | 10.151      | 1369          | 1371        | 1375         | rVB3     | 28576          | 32184         | 1.24%           | 0.122%        |
| 22        | 10.328      | 1394          | 1401        | 1404         | rBV      | 149708         | 135427        | 5.24%           | 0.515%        |
| 23        | 10.469      | 1421          | 1425        | 1431         | rVB      | 44355          | 52267         | 2.02%           | 0.199%        |
| 24        | 10.545      | 1434          | 1438        | 1441         | rBV2     | 51172          | 62641         | 2.42%           | 0.238%        |
| 25        | 10.710      | 1462          | 1466        | 1474         | rBV      | 1291467        | 1334584       | 51.61%          | 5.077%        |
| 26        | 10.798      | 1479          | 1481        | 1491         | rVB      | 116432         | 179506        | 6.94%           | 0.683%        |
| 27        | 10.951      | 1504          | 1507        | 1510         | rBV      | 35700          | 30693         | 1.19%           | 0.117%        |
| 28        | 11.222      | 1550          | 1553        | 1555         | rBV      | 30597          | 27582         | 1.07%           | 0.105%        |
| 29        | 11.251      | 1555          | 1558        | 1561         | rVV2     | 88637          | 85652         | 3.31%           | 0.326%        |
| 30        | 11.304      | 1565          | 1567        | 1570         | rVB      | 30512          | 27122         | 1.05%           | 0.103%        |
| 31        | 11.410      | 1581          | 1585        | 1587         | rBV      | 1187416        | 1038926       | 40.18%          | 3.952%        |
| 32        | 11.433      | 1587          | 1589        | 1593         | rVV      | 540337         | 447683        | 17.31%          | 1.703%        |
| 33        | 11.486      | 1595          | 1598        | 1602         | rVV      | 125533         | 111512        | 4.31%           | 0.424%        |
| 34        | 11.651      | 1623          | 1626        | 1628         | rVB      | 40604          | 35700         | 1.38%           | 0.136%        |

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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-1

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-BF022218.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.922 | 1668 | 1672 | 1674 | rBV2 | 227747  | 268430  | 10.38% | 1.021% |
| 36 | 11.992 | 1681 | 1684 | 1687 | rVB  | 32951   | 29257   | 1.13%  | 0.111% |
| 37 | 12.027 | 1687 | 1690 | 1692 | rBV2 | 110597  | 108210  | 4.18%  | 0.412% |
| 38 | 12.086 | 1697 | 1700 | 1702 | rBV  | 42452   | 35490   | 1.37%  | 0.135% |
| 39 | 12.204 | 1718 | 1720 | 1723 | rBV  | 46031   | 42411   | 1.64%  | 0.161% |
| 40 | 12.245 | 1724 | 1727 | 1732 | rVB5 | 46689   | 60090   | 2.32%  | 0.229% |
| 41 | 12.463 | 1761 | 1764 | 1768 | rBV2 | 61325   | 82904   | 3.21%  | 0.315% |
| 42 | 12.633 | 1789 | 1793 | 1796 | rBV  | 748090  | 723826  | 27.99% | 2.754% |
| 43 | 12.710 | 1803 | 1806 | 1814 | rBV2 | 185171  | 235768  | 9.12%  | 0.897% |
| 44 | 12.863 | 1829 | 1832 | 1838 | rVB  | 698993  | 647514  | 25.04% | 2.463% |
| 45 | 12.992 | 1850 | 1854 | 1858 | rBV  | 1630129 | 1638516 | 63.36% | 6.233% |
| 46 | 13.027 | 1858 | 1860 | 1864 | rVB  | 42509   | 43278   | 1.67%  | 0.165% |
| 47 | 13.874 | 2001 | 2004 | 2009 | rBV3 | 368982  | 386871  | 14.96% | 1.472% |
| 48 | 14.068 | 2032 | 2037 | 2039 | rBV2 | 780544  | 949373  | 36.71% | 3.612% |
| 49 | 14.092 | 2039 | 2041 | 2044 | rVB  | 276913  | 233424  | 9.03%  | 0.888% |
| 50 | 15.139 | 2216 | 2219 | 2222 | rBV  | 171755  | 267170  | 10.33% | 1.016% |
| 51 | 15.586 | 2292 | 2295 | 2298 | rVB  | 318909  | 346233  | 13.39% | 1.317% |

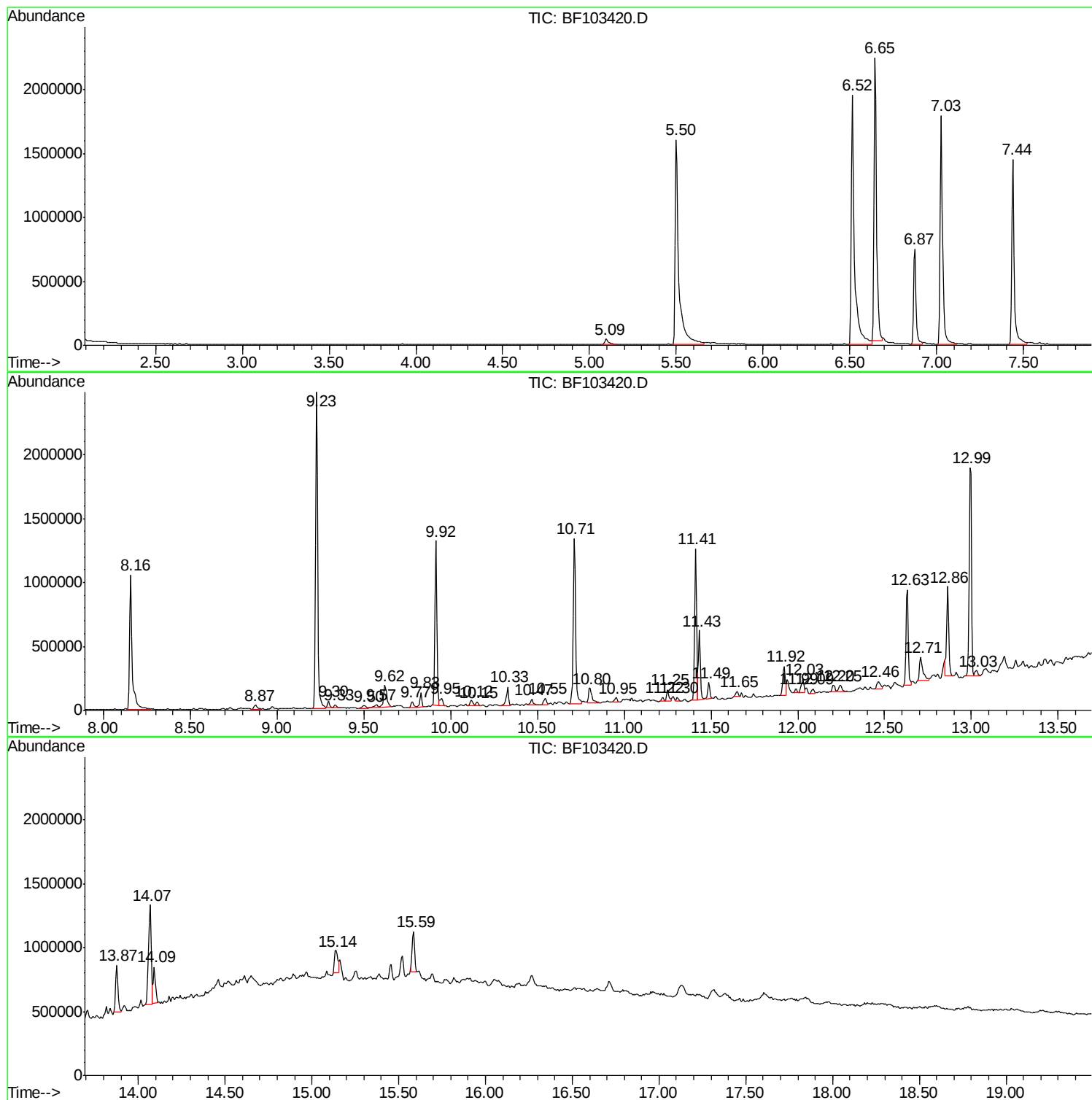
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Sample : J1723-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SP-1

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF030518\  
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Instrument :  
BNA\_F  
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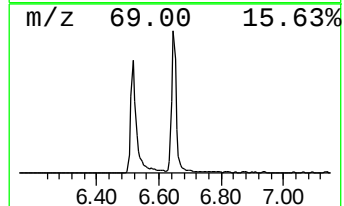
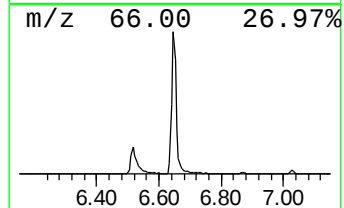
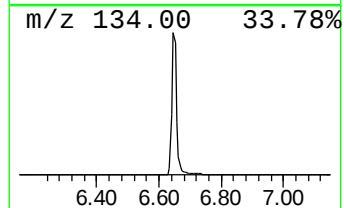
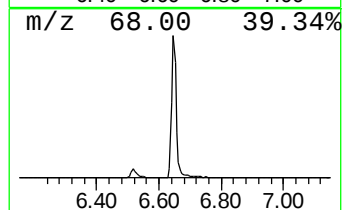
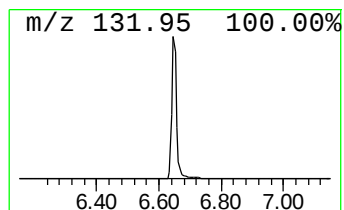
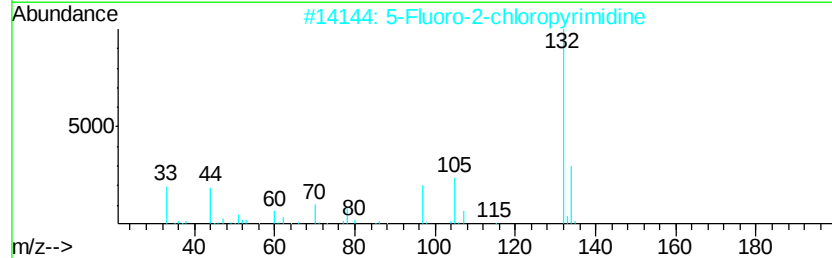
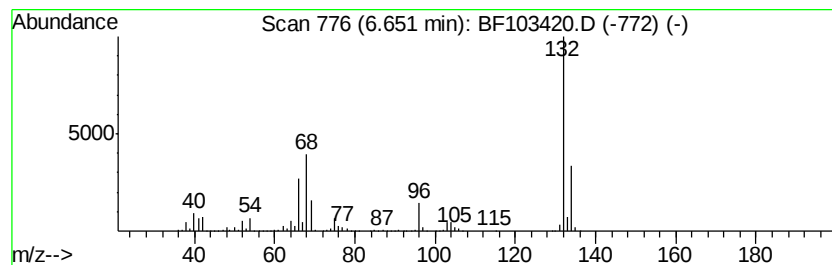
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.65 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.65 | 58.92 ng | 2293520 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# | of                                  | 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  | 12   |      |
| 3    | Tranvlcypropine-propionyl           | 189          | C12H15NO  | 1000123-86-3 | 10   |      |
| 4    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132          | C10H12    | 028749-81-7  | 9    |      |
| 5    | Benzene, 1-ethenyl-3,5-dimethyl-    | 132          | C10H12    | 005379-20-4  | 9    |      |



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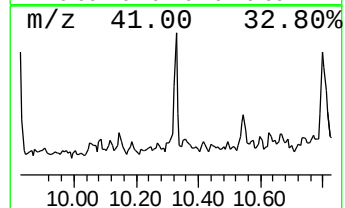
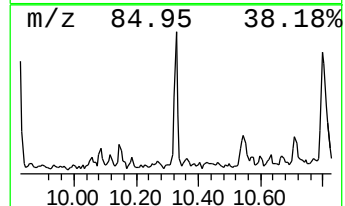
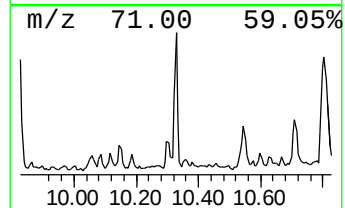
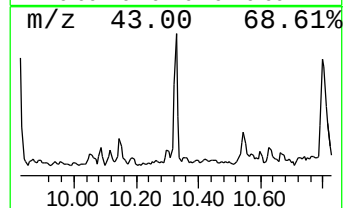
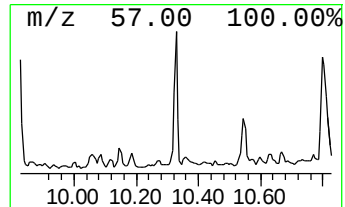
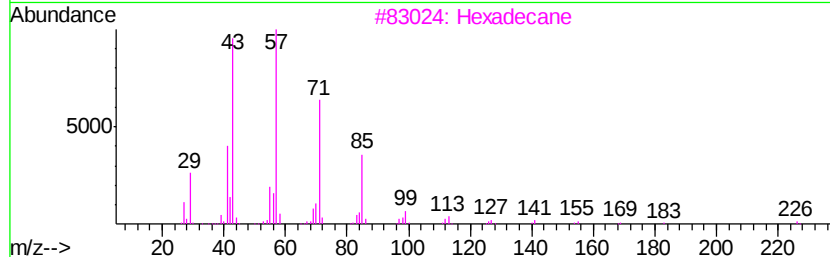
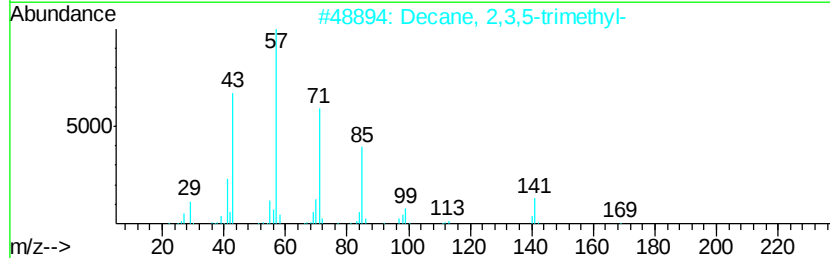
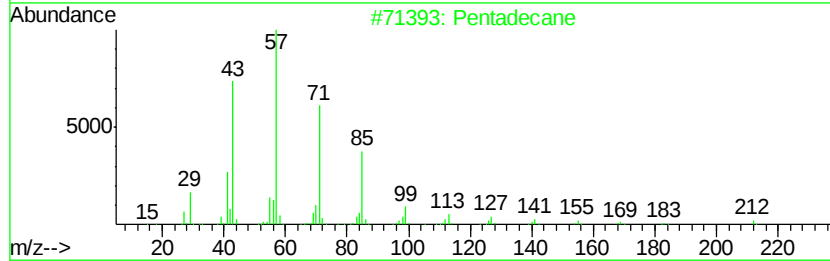
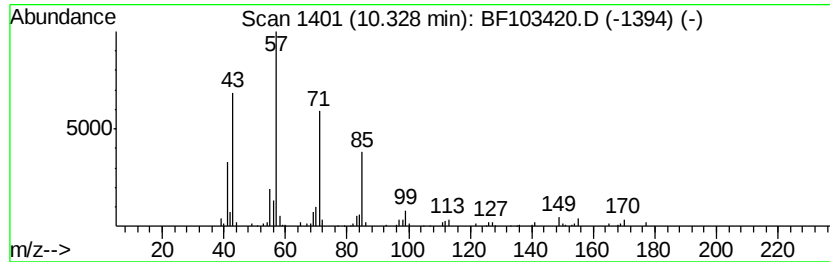
Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.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 3 Pentadecane Concentration Rank 7

| R.T.      | EstConc                  | Area   | Relative to ISTD |             | R.T. |
|-----------|--------------------------|--------|------------------|-------------|------|
| 10.33     | 2.43 ng                  | 135427 | Acenaphthene-d10 |             | 9.92 |
| Hit# of 5 | Tentative ID             | MW     | MolForm          | CAS#        | Qual |
| 1         | Pentadecane              | 212    | C15H32           | 000629-62-9 | 80   |
| 2         | Decane, 2,3,5-trimethyl- | 184    | C13H28           | 062238-11-3 | 72   |
| 3         | Hexadecane               | 226    | C16H34           | 000544-76-3 | 72   |
| 4         | Nonane, 5-butyl-         | 184    | C13H28           | 017312-63-9 | 64   |
| 5         | Tetradecane              | 198    | C14H30           | 000629-59-4 | 50   |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

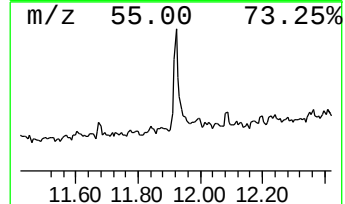
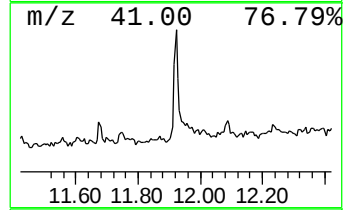
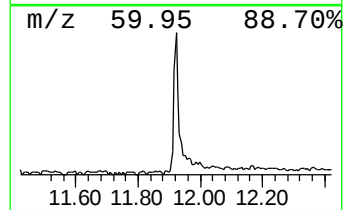
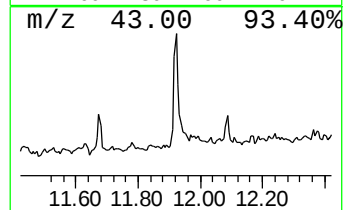
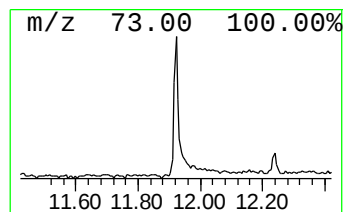
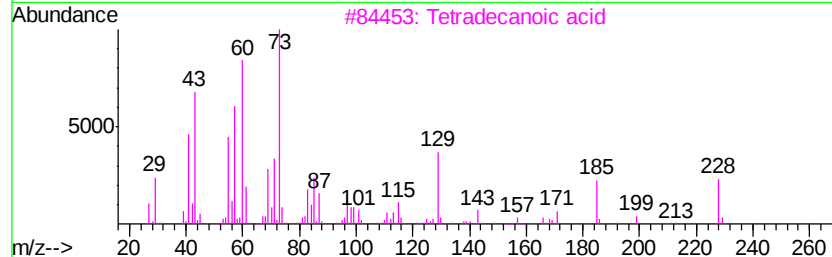
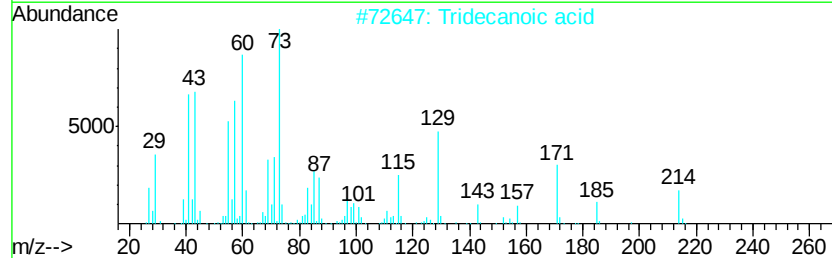
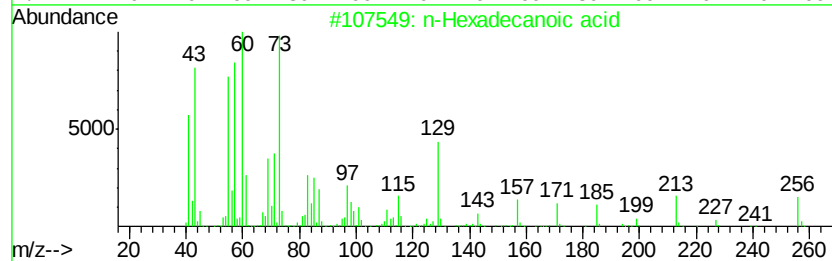
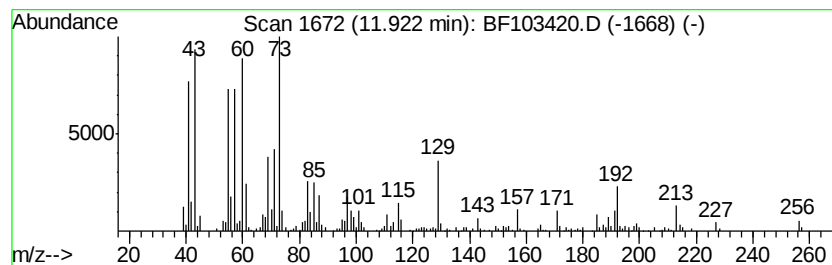
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.92 | 5.17 ng | 268430 | Phenanthrene-d10 | 11.41 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 95   |
| 3       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 90   |
| 4       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 72   |
| 5       |   | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 62   |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

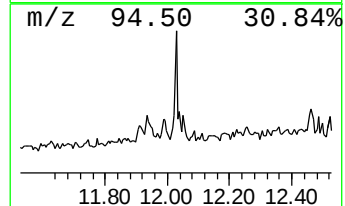
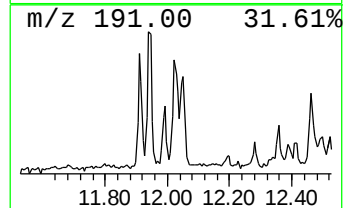
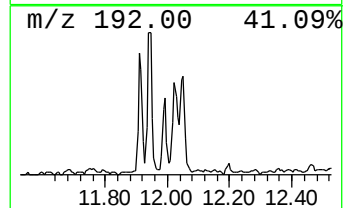
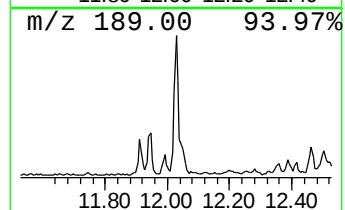
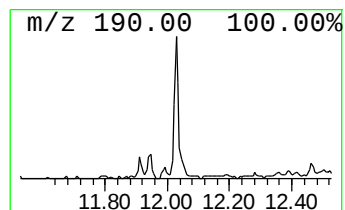
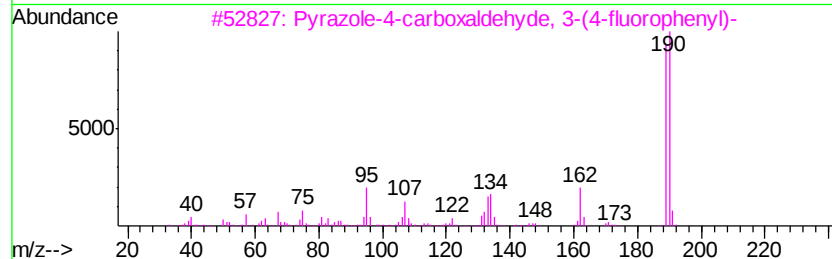
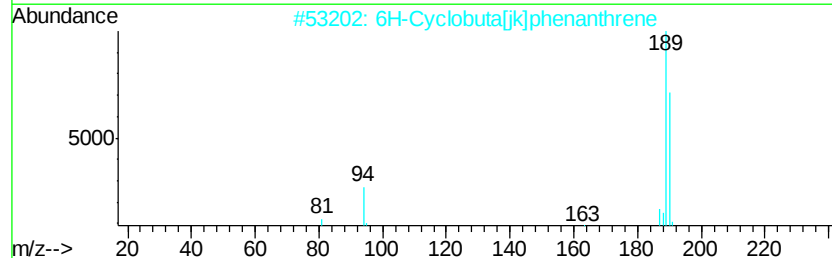
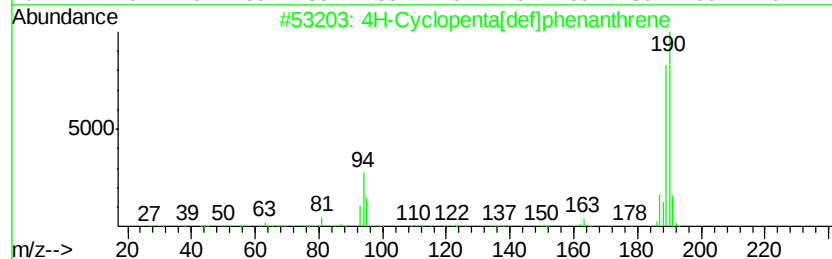
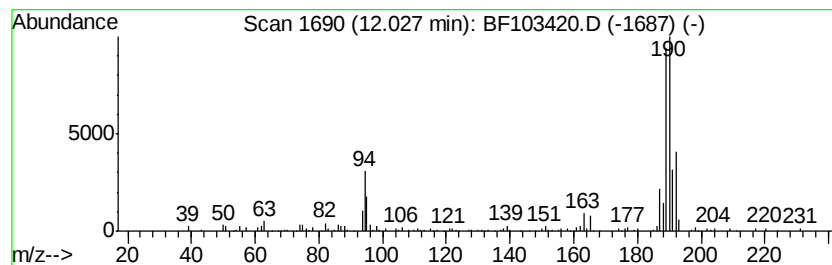
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.03 | 2.08 ng | 108210 | Phenanthrene-d10 | 11.41 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|---------|---|-------------------------------------|-----|------------|-------------|------|
| 1       |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5 | 81   |
| 2       |   | 6H-Cyclobuta[ik]phenanthrene        | 190 | C15H10     | 083469-43-6 | 59   |
| 3       |   | Pyrazole-4-carboxaldehyde, 3-(4-... | 190 | C10H7FN2O  | 306936-57-2 | 47   |
| 4       |   | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BCl03S | 036155-87-0 | 47   |
| 5       |   | 2,2'-Bis(4,5-dimethylimidazole)     | 190 | C10H14N4   | 069286-06-2 | 25   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030518\  
Data File : BF103420.D  
Acq On : 5 Mar 2018 20:30  
Operator : SJ/JU  
Sample : J1723-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

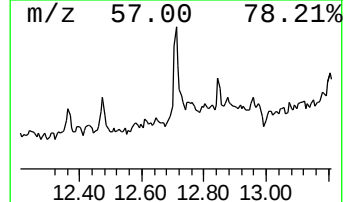
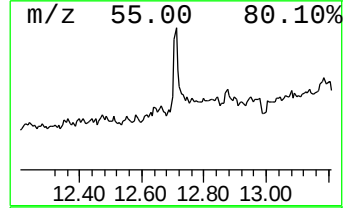
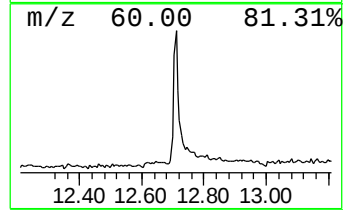
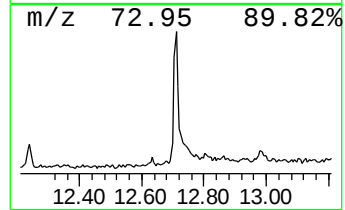
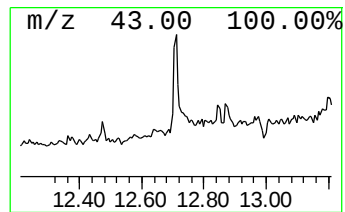
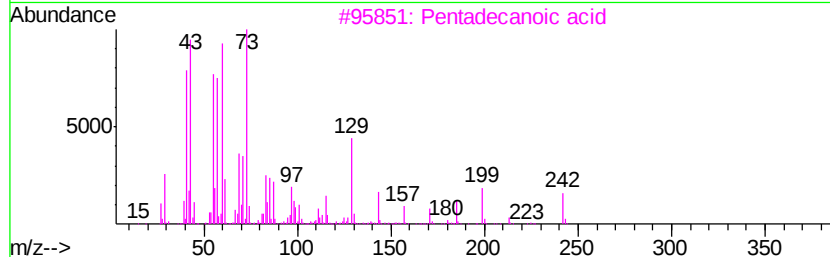
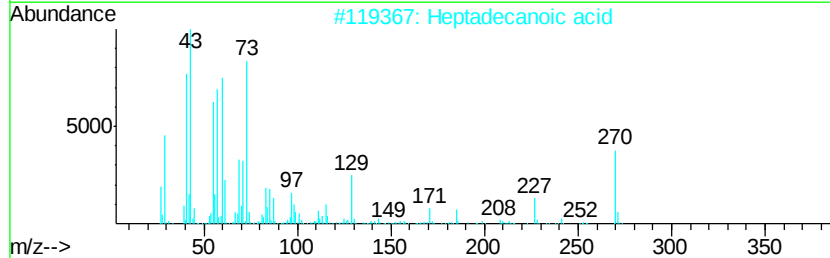
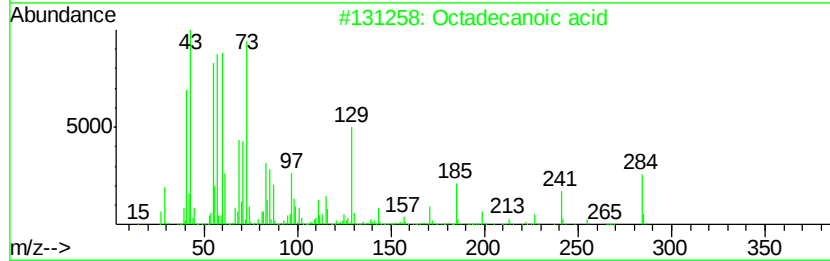
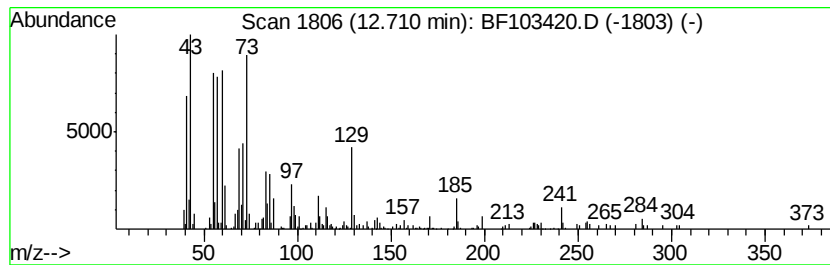
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Octadecanoic acid Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.71 | 4.54 ng | 235768 | Phenanthrene-d10 | 11.41 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2       |   | Heptadecanoic acid  | 270 | C17H34O2 | 000506-12-7 | 93   |
| 3       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 90   |
| 4       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 87   |
| 5       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 81   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030518\  
Data File : BF103420.D  
Acq On : 5 Mar 2018 20:30  
Operator : SJ/JU  
Sample : J1723-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

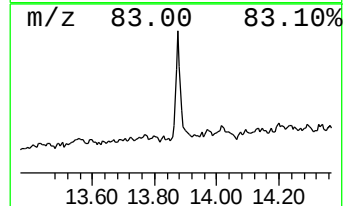
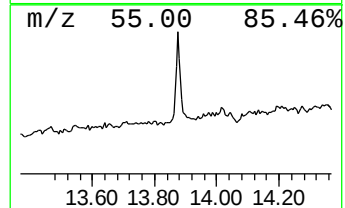
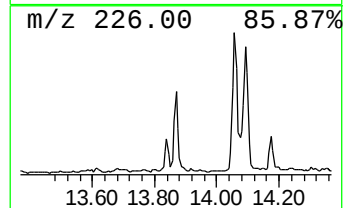
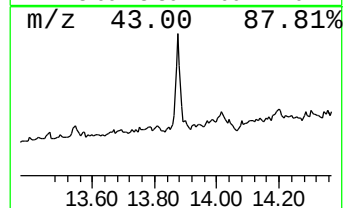
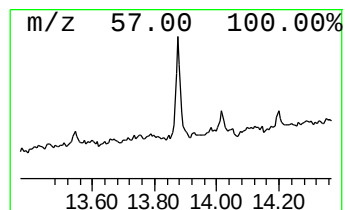
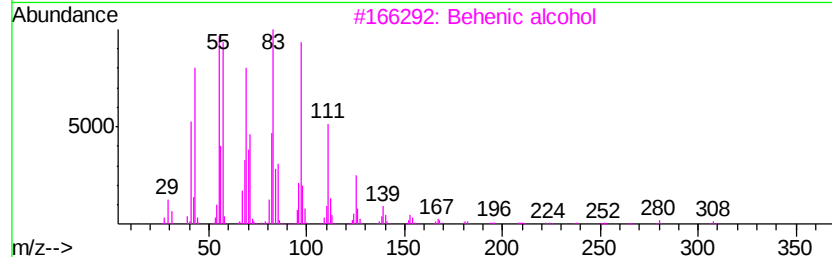
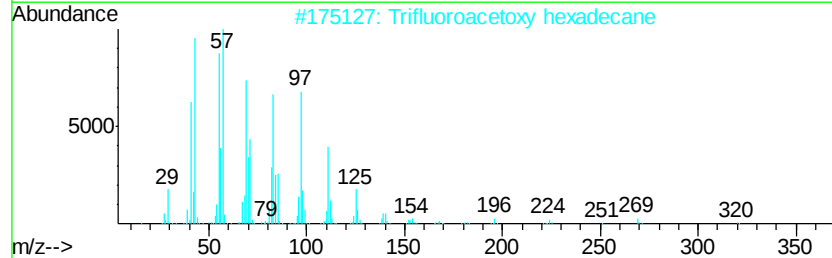
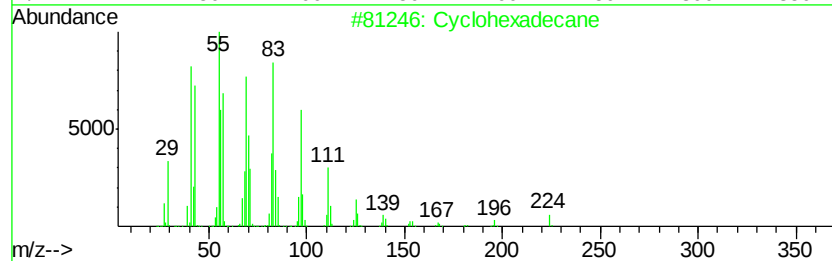
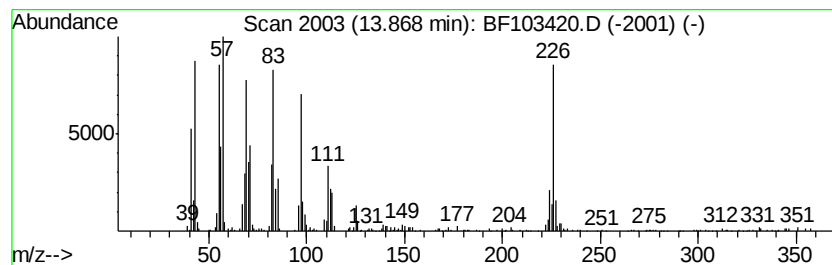
Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.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 Cyclohexadecane Concentration Rank 3

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.       |             |      |
|---------|---------|-------------------------------------|------------------|------------|-------------|------|
| 13.87   | 8.15 ng | 386871                              | Chrysene-d12     | 14.07      |             |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm    | CAS#        | Qual |
| 1       |         | Cvclohexadecane                     | 224              | C16H32     | 000295-65-8 | 98   |
| 2       |         | Trifluoroacetoxy hexadecane         | 338              | C18H33F3O2 | 006222-03-3 | 93   |
| 3       |         | Behenic alcohol                     | 326              | C22H46O    | 000661-19-8 | 91   |
| 4       |         | Acetic acid, chloro-, hexadecyl ... | 318              | C18H35ClO2 | 052132-58-8 | 91   |
| 5       |         | n-Tetracosanol-1                    | 354              | C24H50O    | 000506-51-4 | 91   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF030518\  
Data File : BF103420.D  
Acq On : 5 Mar 2018 20:30  
Operator : SJ/JU  
Sample : J1723-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF022218.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 |
| unknown6.65          | 6.65  | 58.9    | ng    | 2293520  | 1                     | 6.87  | 778455  | 20.0 |
| Pentadecane          | 10.33 | 2.4     | ng    | 135427   | 3                     | 9.92  | 1115740 | 20.0 |
| n-Hexadecanoic acid  | 11.92 | 5.2     | ng    | 268430   | 4                     | 11.41 | 1038930 | 20.0 |
| 4H-Cyclopenta[def... | 12.03 | 2.1     | ng    | 108210   | 4                     | 11.41 | 1038930 | 20.0 |
| Octadecanoic acid    | 12.71 | 4.5     | ng    | 235768   | 4                     | 11.41 | 1038930 | 20.0 |
| Cyclohexadecane      | 13.87 | 8.2     | ng    | 386871   | 5                     | 14.07 | 949373  | 20.0 |