

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF042318\  
 Data File : BF104711.D  
 Acq On : 23 Apr 2018 16:00  
 Operator : JU/SJ  
 Sample : J2499-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 355-285-279

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-BF040618.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         | 5.022       | 494           | 499         | 506          | rBV      | 69099          | 87293         | 3.67%           | 0.384%        |
| 2         | 5.434       | 564           | 569         | 572          | rBV      | 2447060        | 2263129       | 95.21%          | 9.967%        |
| 3         | 6.457       | 738           | 743         | 760          | rBV      | 2410386        | 2376868       | 100.00%         | 10.468%       |
| 4         | 6.581       | 760           | 764         | 768          | rBV      | 2434134        | 2330380       | 98.04%          | 10.264%       |
| 5         | 6.810       | 799           | 803         | 806          | rBV      | 757044         | 635269        | 26.73%          | 2.798%        |
| 6         | 6.963       | 825           | 829         | 833          | rBV      | 2122412        | 1860042       | 78.26%          | 8.192%        |
| 7         | 7.375       | 894           | 899         | 902          | rBV      | 1484804        | 1258868       | 52.96%          | 5.544%        |
| 8         | 8.092       | 1017          | 1021        | 1024         | rBV      | 944682         | 785094        | 33.03%          | 3.458%        |
| 9         | 9.169       | 1200          | 1204        | 1207         | rBV      | 2600988        | 2180798       | 91.75%          | 9.605%        |
| 10        | 9.269       | 1219          | 1221        | 1231         | rVB2     | 20130          | 32077         | 1.35%           | 0.141%        |
| 11        | 9.504       | 1257          | 1261        | 1264         | rBV2     | 21349          | 26222         | 1.10%           | 0.115%        |
| 12        | 9.563       | 1268          | 1271        | 1278         | rVB      | 162055         | 150446        | 6.33%           | 0.663%        |
| 13        | 9.769       | 1303          | 1306        | 1310         | rVB      | 82034          | 63278         | 2.66%           | 0.279%        |
| 14        | 9.851       | 1316          | 1320        | 1323         | rBV      | 870017         | 749872        | 31.55%          | 3.303%        |
| 15        | 9.880       | 1323          | 1325        | 1329         | rVB      | 61119          | 49933         | 2.10%           | 0.220%        |
| 16        | 10.057      | 1352          | 1355        | 1358         | rBV      | 63097          | 55459         | 2.33%           | 0.244%        |
| 17        | 10.269      | 1389          | 1391        | 1394         | rVB      | 98212          | 81575         | 3.43%           | 0.359%        |
| 18        | 10.398      | 1409          | 1413        | 1419         | rVB      | 58499          | 53826         | 2.26%           | 0.237%        |
| 19        | 10.486      | 1425          | 1428        | 1431         | rBV2     | 25318          | 27393         | 1.15%           | 0.121%        |
| 20        | 10.645      | 1451          | 1455        | 1461         | rBV      | 1134482        | 1155164       | 48.60%          | 5.088%        |
| 21        | 10.745      | 1469          | 1472        | 1482         | rVB      | 87673          | 95208         | 4.01%           | 0.419%        |
| 22        | 11.192      | 1544          | 1548        | 1550         | rBV2     | 54006          | 46087         | 1.94%           | 0.203%        |
| 23        | 11.339      | 1569          | 1573        | 1575         | rBV      | 805115         | 681862        | 28.69%          | 3.003%        |
| 24        | 11.363      | 1575          | 1577        | 1582         | rVV      | 575153         | 441275        | 18.57%          | 1.944%        |
| 25        | 11.416      | 1582          | 1586        | 1589         | rVB      | 147162         | 126469        | 5.32%           | 0.557%        |
| 26        | 11.574      | 1608          | 1613        | 1618         | rBV2     | 30812          | 37900         | 1.59%           | 0.167%        |
| 27        | 11.621      | 1618          | 1621        | 1627         | rVB2     | 31500          | 34713         | 1.46%           | 0.153%        |
| 28        | 11.686      | 1627          | 1632        | 1635         | rBV3     | 26989          | 36382         | 1.53%           | 0.160%        |
| 29        | 11.839      | 1655          | 1658        | 1661         | rBV      | 49625          | 49843         | 2.10%           | 0.220%        |
| 30        | 11.868      | 1661          | 1663        | 1666         | rVV      | 72327          | 73446         | 3.09%           | 0.323%        |
| 31        | 11.915      | 1669          | 1671        | 1674         | rVV      | 36905          | 32324         | 1.36%           | 0.142%        |
| 32        | 11.957      | 1674          | 1678        | 1680         | rVV      | 63772          | 78425         | 3.30%           | 0.345%        |
| 33        | 11.974      | 1680          | 1681        | 1686         | rVB      | 37699          | 27115         | 1.14%           | 0.119%        |
| 34        | 12.139      | 1706          | 1709        | 1711         | rBV      | 38255          | 35270         | 1.48%           | 0.155%        |

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\  
Data File : BF104711.D  
Acq On : 23 Apr 2018 16:00  
Operator : JU/SJ  
Sample : J2499-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
355-285-279

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-BF040618.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.392 | 1748 | 1752 | 1755 | rBV  | 30528   | 32506   | 1.37%  | 0.143% |
| 36 | 12.480 | 1764 | 1767 | 1772 | rVB2 | 34886   | 39391   | 1.66%  | 0.173% |
| 37 | 12.557 | 1776 | 1780 | 1783 | rBV  | 579458  | 480439  | 20.21% | 2.116% |
| 38 | 12.710 | 1799 | 1806 | 1809 | rBV3 | 21435   | 37020   | 1.56%  | 0.163% |
| 39 | 12.768 | 1813 | 1816 | 1817 | rBV2 | 94722   | 94452   | 3.97%  | 0.416% |
| 40 | 12.786 | 1817 | 1819 | 1823 | rVV  | 457849  | 358700  | 15.09% | 1.580% |
| 41 | 12.839 | 1825 | 1828 | 1833 | rVB2 | 23045   | 29442   | 1.24%  | 0.130% |
| 42 | 12.927 | 1836 | 1843 | 1846 | rBV  | 1891839 | 1699553 | 71.50% | 7.485% |
| 43 | 13.004 | 1851 | 1856 | 1860 | rBV2 | 31413   | 51241   | 2.16%  | 0.226% |
| 44 | 13.086 | 1867 | 1870 | 1872 | rBV2 | 26214   | 29879   | 1.26%  | 0.132% |
| 45 | 13.115 | 1872 | 1875 | 1879 | rVB  | 36273   | 43741   | 1.84%  | 0.193% |
| 46 | 13.215 | 1888 | 1892 | 1896 | rBV2 | 43541   | 50766   | 2.14%  | 0.224% |
| 47 | 13.345 | 1911 | 1914 | 1916 | rBV2 | 21701   | 25629   | 1.08%  | 0.113% |
| 48 | 13.627 | 1959 | 1962 | 1966 | rVB  | 32747   | 32515   | 1.37%  | 0.143% |
| 49 | 13.815 | 1991 | 1994 | 2003 | rVB3 | 187687  | 216405  | 9.10%  | 0.953% |
| 50 | 13.986 | 2019 | 2023 | 2026 | rBV2 | 567549  | 674834  | 28.39% | 2.972% |
| 51 | 14.015 | 2026 | 2028 | 2035 | rVB  | 149062  | 140037  | 5.89%  | 0.617% |
| 52 | 14.080 | 2036 | 2039 | 2043 | rBV5 | 32318   | 48101   | 2.02%  | 0.212% |
| 53 | 15.039 | 2199 | 2202 | 2210 | rVB  | 88754   | 161670  | 6.80%  | 0.712% |
| 54 | 15.403 | 2261 | 2264 | 2269 | rVB  | 75055   | 89409   | 3.76%  | 0.394% |
| 55 | 15.468 | 2271 | 2275 | 2279 | rBV  | 279492  | 350047  | 14.73% | 1.542% |

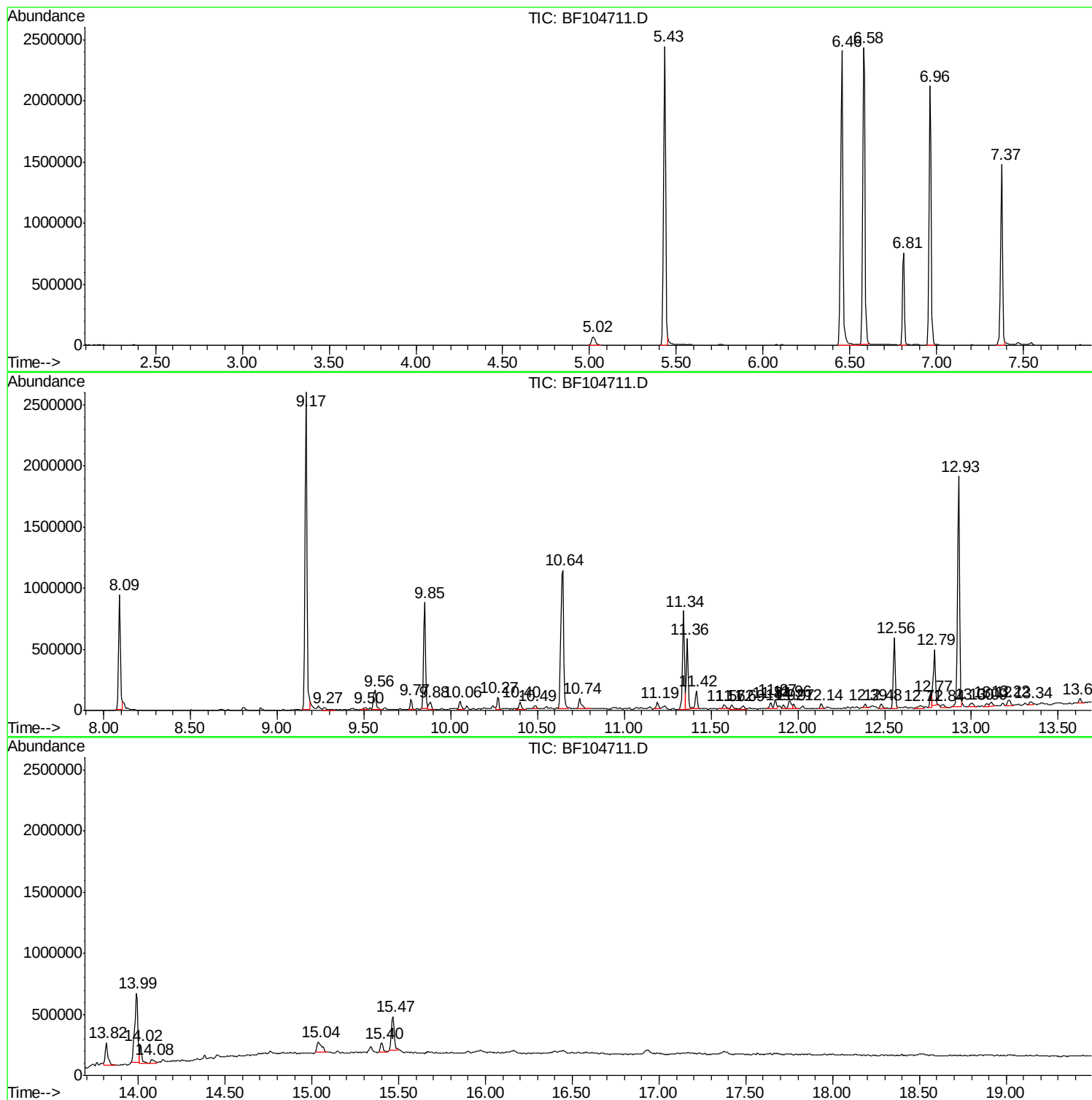
Sum of corrected areas: 22705082

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\  
Data File : BF104711.D  
Acq On : 23 Apr 2018 16:00  
Operator : JU/SJ  
Sample : J2499-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
355-285-279

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF042318\  
Data File : BF104711.D  
Acq On : 23 Apr 2018 16:00  
Operator : JU/SJ  
Sample : J2499-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

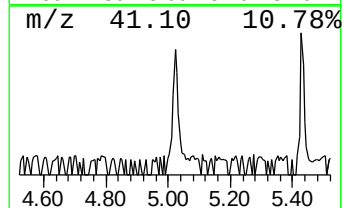
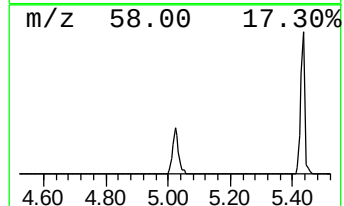
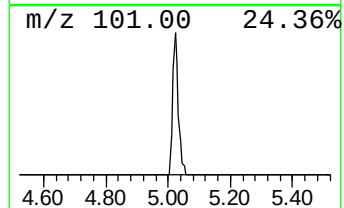
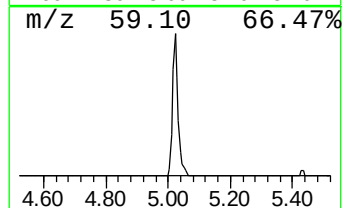
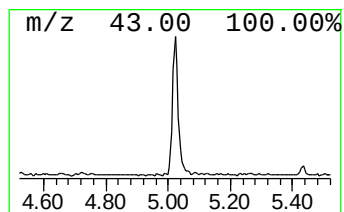
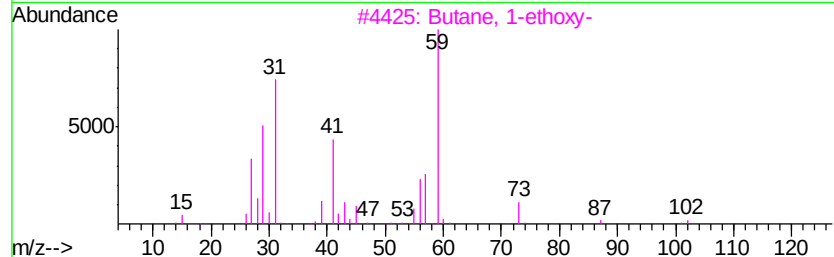
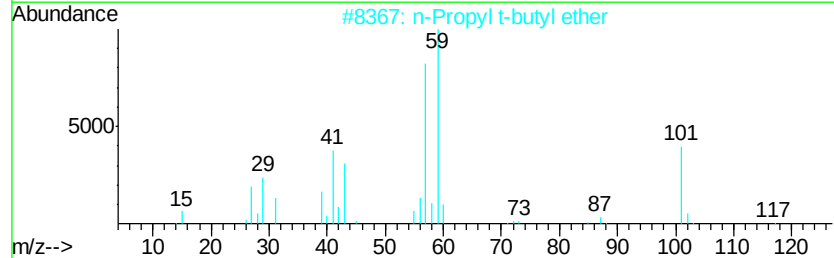
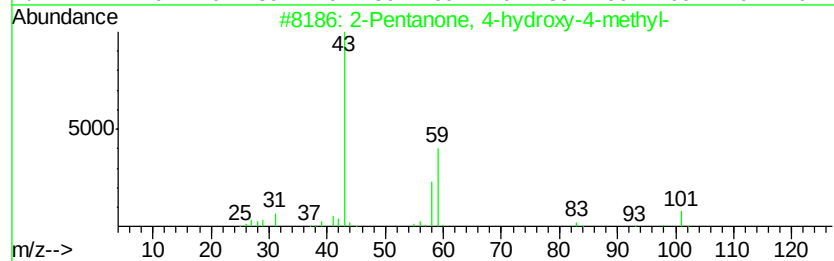
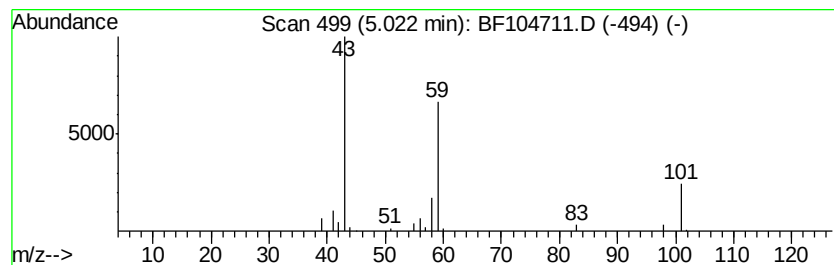
Instrument :  
BNA\_F  
ClientSampleId :  
355-285-279

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T.      | EstConc                          | Area  | Relative to ISTD       | R.T.         |      |
|-----------|----------------------------------|-------|------------------------|--------------|------|
| 5.02      | 2.75 ng                          | 87293 | 1,4-Dichlorobenzene-d4 | 6.81         |      |
| Hit# of 5 | Tentative ID                     | MW    | MolForm                | CAS#         | Qual |
| 1         | 2-Pentanone, 4-hydroxy-4-methyl- | 116   | C6H12O2                | 000123-42-2  | 50   |
| 2         | n-Propyl t-butyl ether           | 116   | C7H16O                 | 1000334-81-9 | 33   |
| 3         | Butane, 1-ethoxy-                | 102   | C6H14O                 | 000628-81-9  | 16   |
| 4         | 2-Nonanone                       | 142   | C9H18O                 | 000821-55-6  | 12   |
| 5         | 5-Hexen-2-one                    | 98    | C6H10O                 | 000109-49-9  | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\  
Data File : BF104711.D  
Acq On : 23 Apr 2018 16:00  
Operator : JU/SJ  
Sample : J2499-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
355-285-279

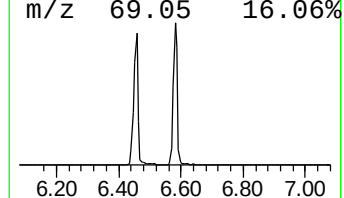
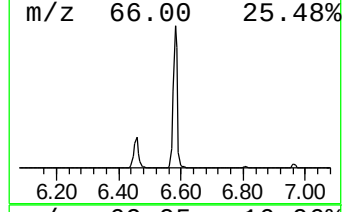
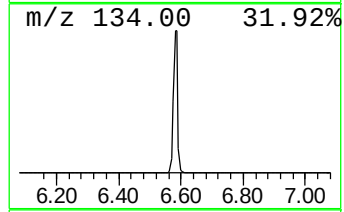
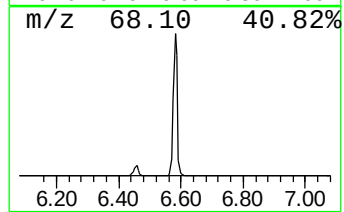
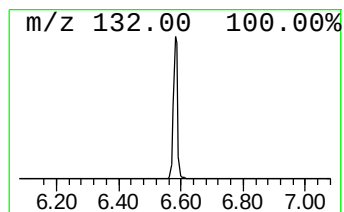
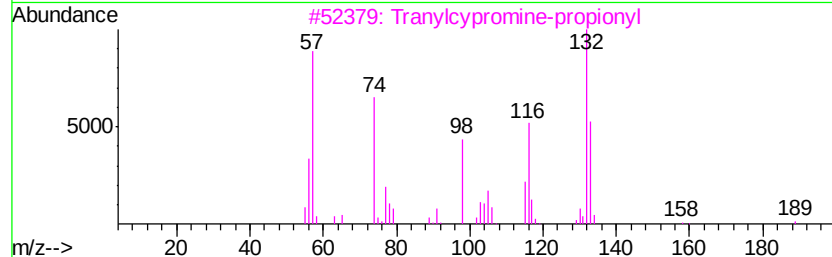
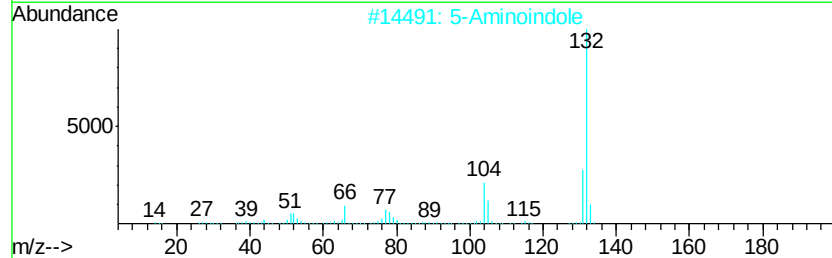
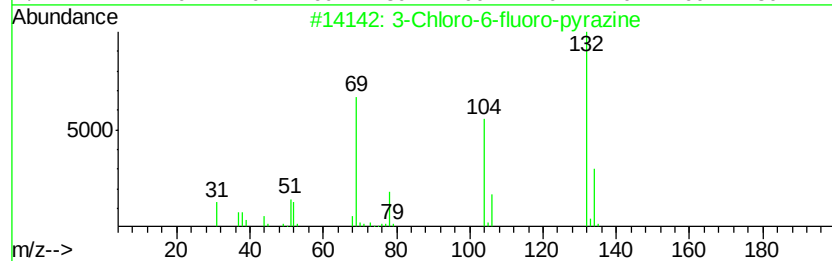
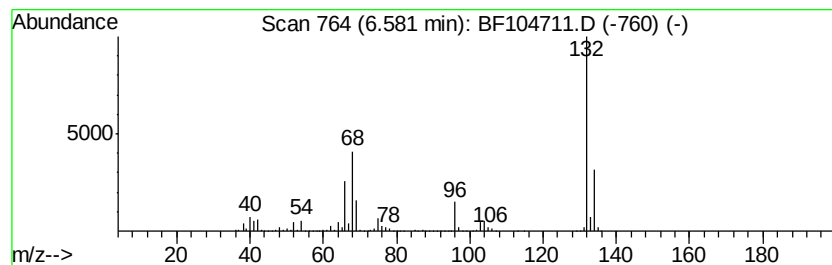
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 unknown6.58 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.58 | 73.37 ng | 2330380 | 1,4-Dichlorobenzene-d4 | 6.81 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm   | CAS#         | Qual |
|------|----|---|------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Chloro-6-fluoro-pyrazine   | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    |   | 5-Aminoindole                | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    |   | Tranvlcyproline-propionyl    | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    |   | 5-Fluoro-2-chloropyrimidine  | 132 | C4H2ClFN2 | 062802-42-0  | 9    |
| 5    |    |   | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6  | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF042318\  
Data File : BF104711.D  
Acq On : 23 Apr 2018 16:00  
Operator : JU/SJ  
Sample : J2499-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

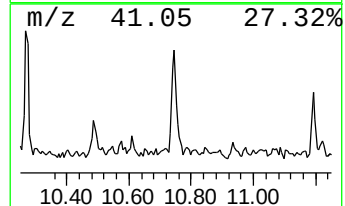
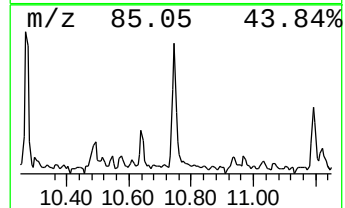
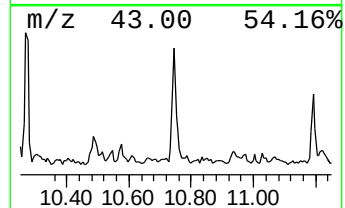
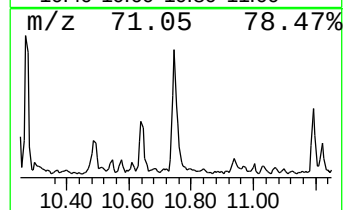
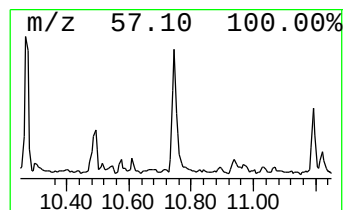
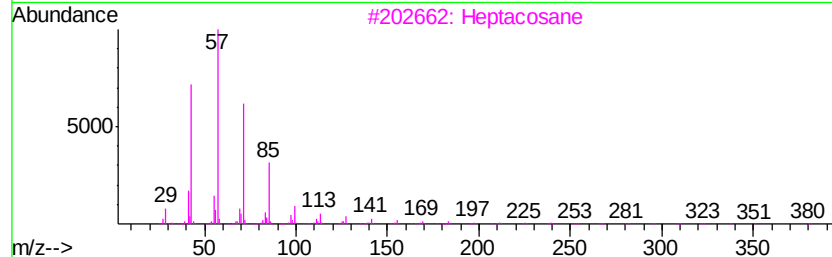
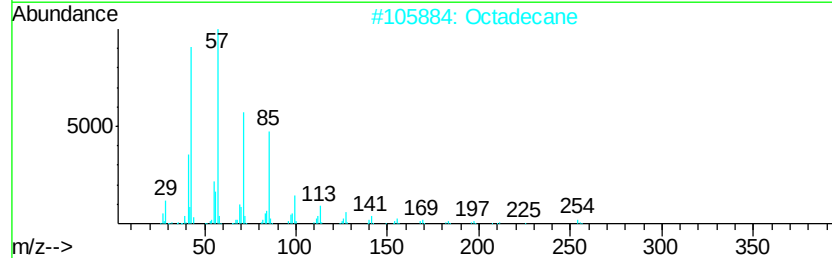
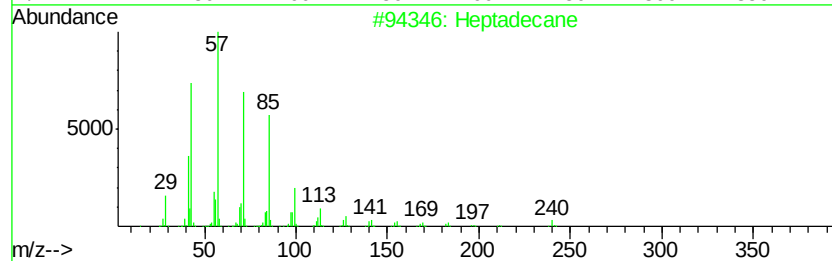
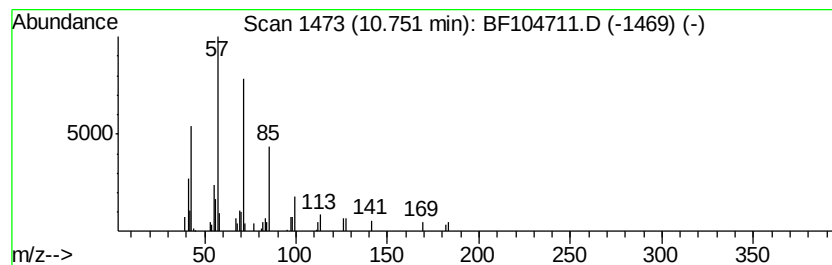
Instrument :  
BNA\_F  
ClientSampleId :  
355-285-279

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 Heptadecane Concentration Rank 4

| R.T.      | EstConc      | Area  | Relative to ISTD |             | R.T.  |
|-----------|--------------|-------|------------------|-------------|-------|
| 10.75     | 2.79 ng      | 95208 | Phenanthrene-d10 |             | 11.34 |
| Hit# of 5 | Tentative ID | MW    | MolForm          | CAS#        | Qual  |
| 1         | Heptadecane  | 240   | C17H36           | 000629-78-7 | 91    |
| 2         | Octadecane   | 254   | C18H38           | 000593-45-3 | 91    |
| 3         | Heptacosane  | 380   | C27H56           | 000593-49-7 | 90    |
| 4         | Heneicosane  | 296   | C21H44           | 000629-94-7 | 90    |
| 5         | Hexadecane   | 226   | C16H34           | 000544-76-3 | 90    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF042318\  
Data File : BF104711.D  
Acq On : 23 Apr 2018 16:00  
Operator : JU/SJ  
Sample : J2499-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

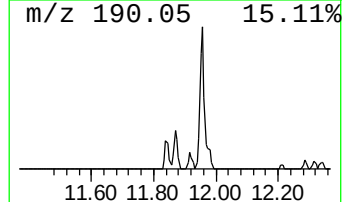
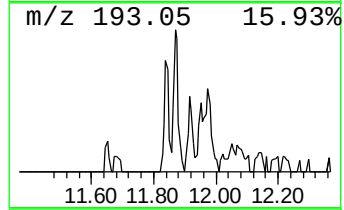
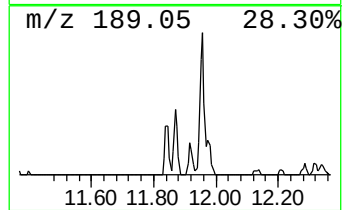
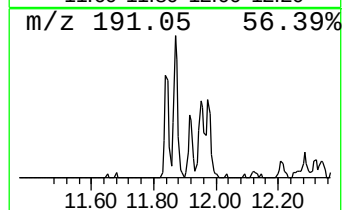
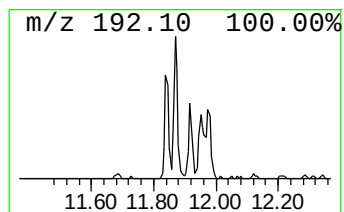
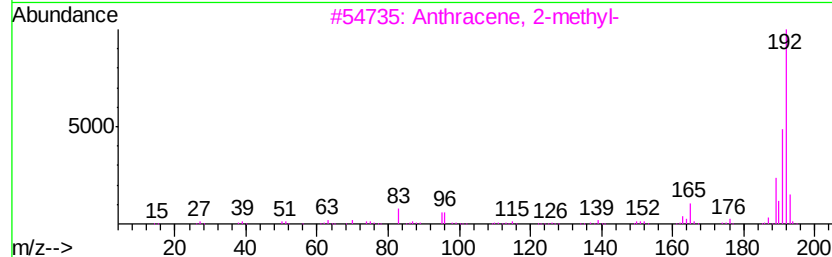
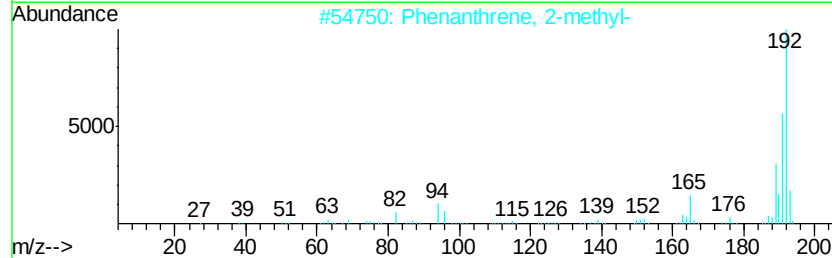
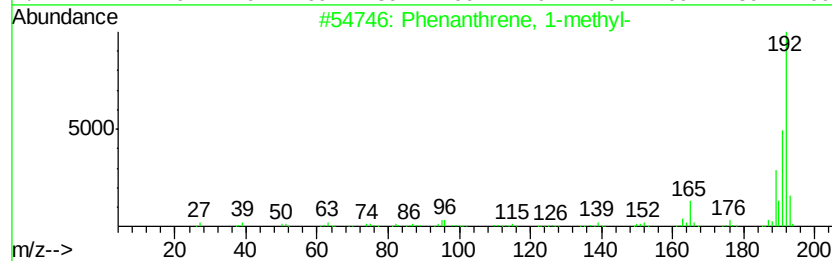
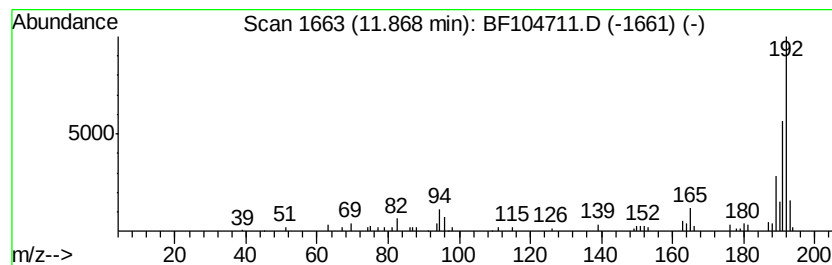
Instrument :  
BNA\_F  
ClientSampleId :  
355-285-279

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 8

| R.T.      | EstConc                 | Area  | Relative to ISTD |             | R.T.  |
|-----------|-------------------------|-------|------------------|-------------|-------|
| 11.87     | 2.15 ng                 | 73446 | Phenanthrene-d10 |             | 11.34 |
| Hit# of 5 | Tentative ID            | MW    | MolForm          | CAS#        | Qual  |
| 1         | Phenanthrene, 1-methyl- | 192   | C15H12           | 000832-69-9 | 97    |
| 2         | Phenanthrene, 2-methyl- | 192   | C15H12           | 002531-84-2 | 97    |
| 3         | Anthracene, 2-methyl-   | 192   | C15H12           | 000613-12-7 | 96    |
| 4         | Phenanthrene, 4-methyl- | 192   | C15H12           | 000832-64-4 | 94    |
| 5         | Anthracene, 9-methyl-   | 192   | C15H12           | 000779-02-2 | 94    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\  
Data File : BF104711.D  
Acq On : 23 Apr 2018 16:00  
Operator : JU/SJ  
Sample : J2499-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

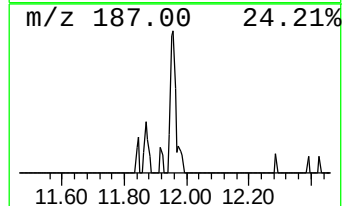
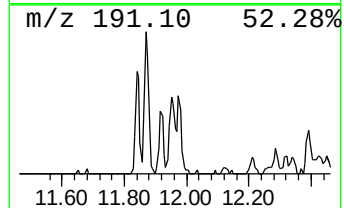
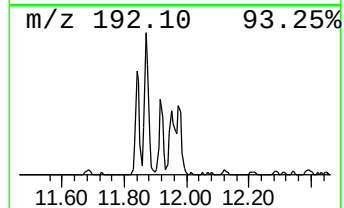
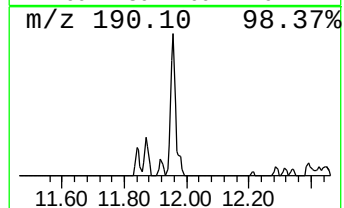
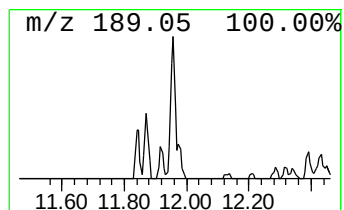
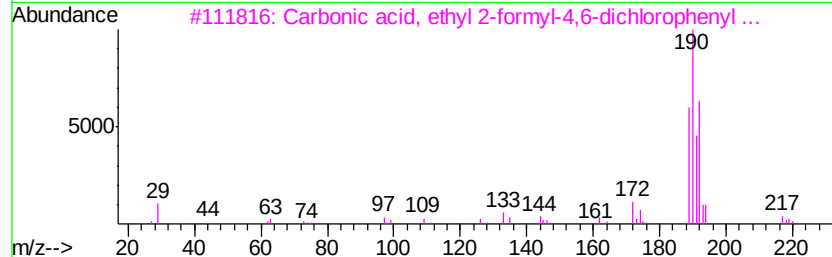
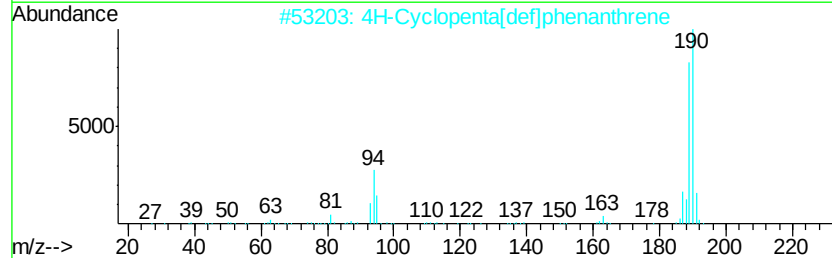
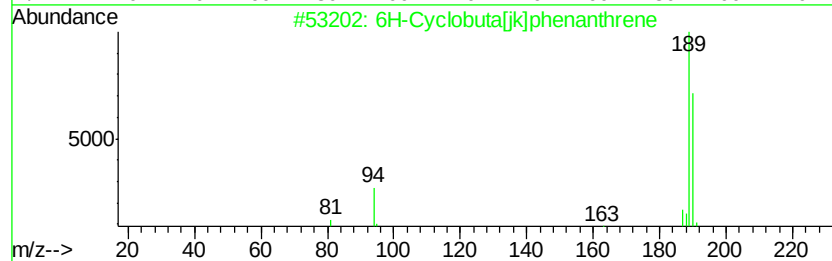
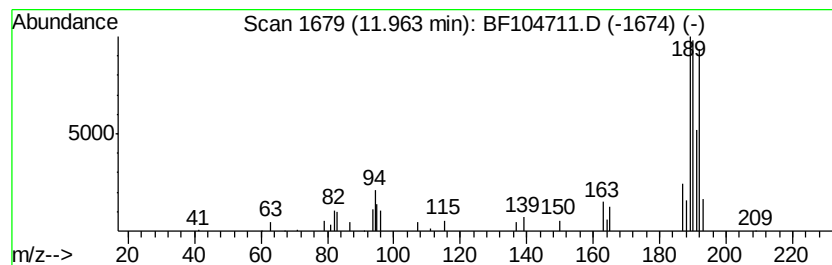
Instrument :  
BNA\_F  
ClientSampleId :  
355-285-279

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 6H-Cyclobuta[jk]phenanthrene Concentration Rank 6

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 11.96   | 2.30 ng                             | 78425        | Phenanthrene-d10 | 11.34        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | 6H-Cyclobuta[ikl]phenanthrene       | 190          | C15H10           | 083469-43-6  | 59   |      |
| 2       | 4H-Cyclopenta[def]phenanthrene      | 190          | C15H10           | 000203-64-5  | 58   |      |
| 3       | Carbonic acid, ethyl 2-formyl-4,... | 262          | C10H8Cl2O4       | 1000331-34-4 | 38   |      |
| 4       | Benzaldehyde, 3,5-dichloro-2-hyd... | 190          | C7H4Cl2O2        | 000090-60-8  | 38   |      |
| 5       | Methyl diselenide                   | 190          | C2H6Se2          | 007101-31-7  | 38   |      |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\  
Data File : BF104711.D  
Acq On : 23 Apr 2018 16:00  
Operator : JU/SJ  
Sample : J2499-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

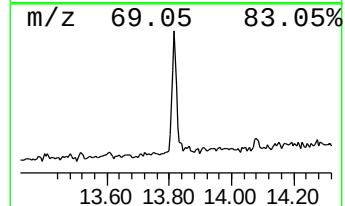
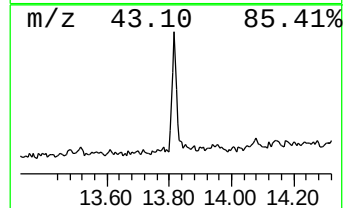
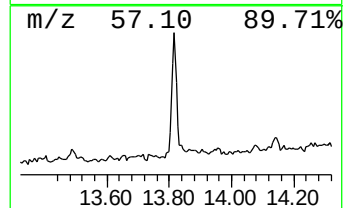
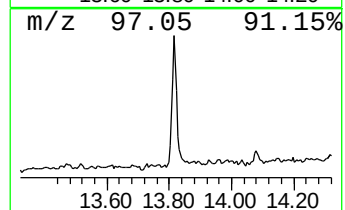
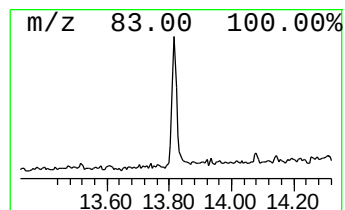
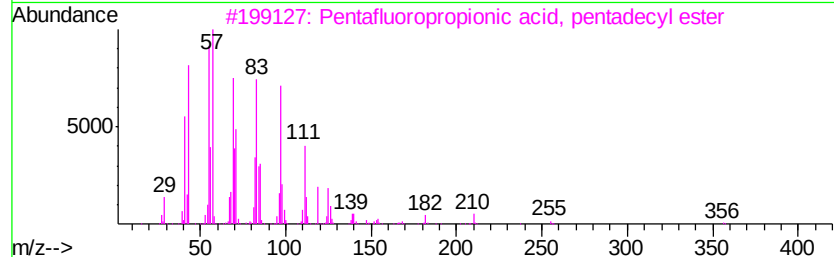
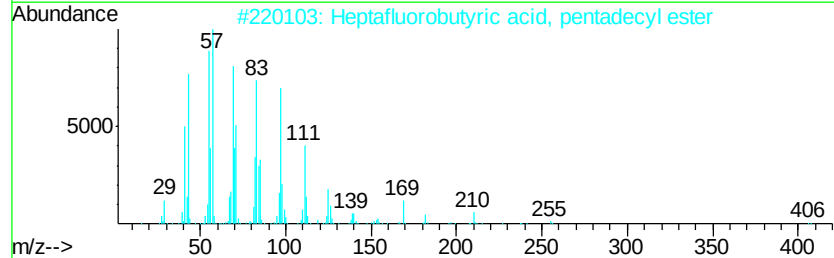
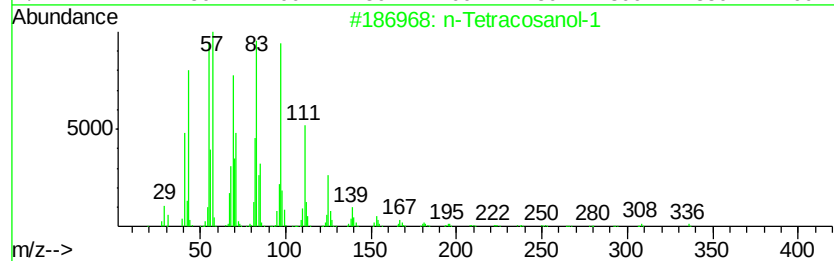
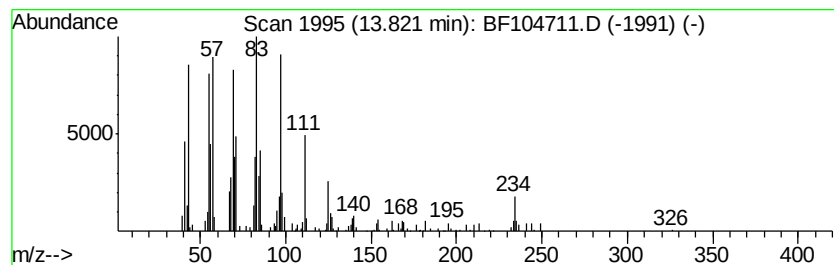
Instrument :  
BNA\_F  
ClientSampleId :  
355-285-279

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 n-Tetracosanol-1 Concentration Rank 3

| R.T.      | EstConc                             | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------------------|--------|------------------|-------------|-------|
| 13.82     | 6.41 ng                             | 216405 | Chrysene-d12     |             | 13.99 |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual  |
| 1         | n-Tetracosanol-1                    | 354    | C24H50O          | 000506-51-4 | 94    |
| 2         | Heptafluorobutyric acid, pentade... | 424    | C19H31F7O2       | 959261-23-5 | 94    |
| 3         | Pentafluoropropionic acid, penta... | 374    | C18H31F5O2       | 959092-08-1 | 94    |
| 4         | Trifluoroacetoxy hexadecane         | 338    | C18H33F3O2       | 006222-03-3 | 94    |
| 5         | 1-Heneicosanol                      | 312    | C21H44O          | 015594-90-8 | 93    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF042318\  
Data File : BF104711.D  
Acq On : 23 Apr 2018 16:00  
Operator : JU/SJ  
Sample : J2499-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
355-285-279

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040618.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... | 5.02  | 2.8     | ng    | 87293    | 1                     | 6.81  | 635269 | 20.0 |
| unknown6.58          | 6.58  | 73.4    | ng    | 2330380  | 1                     | 6.81  | 635269 | 20.0 |
| Heptadecane          | 10.75 | 2.8     | ng    | 95208    | 4                     | 11.34 | 681862 | 20.0 |
| Phenanthrene, 1-m... | 11.87 | 2.1     | ng    | 73446    | 4                     | 11.34 | 681862 | 20.0 |
| 6H-Cyclobuta[jk]p... | 11.96 | 2.3     | ng    | 78425    | 4                     | 11.34 | 681862 | 20.0 |
| n-Tetracosanol-1     | 13.82 | 6.4     | ng    | 216405   | 5                     | 13.99 | 674834 | 20.0 |