

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF050120\  
 Data File : BF120265.D  
 Acq On : 1 May 2020 18:26  
 Operator : MA/SJ  
 Sample : L2376-10  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-10

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040820.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         | 5.257       | 536           | 539         | 549          | rBV      | 1875726        | 1791991       | 67.59%          | 8.504%        |
| 2         | 6.304       | 713           | 717         | 734          | rVB      | 1922453        | 1815569       | 68.48%          | 8.616%        |
| 3         | 6.651       | 772           | 776         | 782          | rBV      | 841311         | 734267        | 27.69%          | 3.485%        |
| 4         | 6.804       | 798           | 802         | 805          | rBV      | 2205544        | 1801833       | 67.96%          | 8.551%        |
| 5         | 7.216       | 868           | 872         | 875          | rBV      | 1452057        | 1206986       | 45.52%          | 5.728%        |
| 6         | 7.934       | 990           | 994         | 998          | rBV      | 1212901        | 952728        | 35.93%          | 4.521%        |
| 7         | 9.016       | 1174          | 1178        | 1181         | rBV      | 3090879        | 2651402       | 100.00%         | 12.583%       |
| 8         | 9.410       | 1241          | 1245        | 1252         | rVB      | 274647         | 209374        | 7.90%           | 0.994%        |
| 9         | 9.686       | 1289          | 1292        | 1296         | rBV      | 1219577        | 987174        | 37.23%          | 4.685%        |
| 10        | 10.475      | 1423          | 1426        | 1430         | rBV      | 1420526        | 1330508       | 50.18%          | 6.314%        |
| 11        | 10.651      | 1452          | 1456        | 1461         | rBV2     | 27659          | 33937         | 1.28%           | 0.161%        |
| 12        | 11.175      | 1541          | 1545        | 1547         | rBV      | 965913         | 919319        | 34.67%          | 4.363%        |
| 13        | 11.192      | 1547          | 1548        | 1553         | rVV      | 121072         | 109264        | 4.12%           | 0.519%        |
| 14        | 11.245      | 1553          | 1557        | 1561         | rVB3     | 29919          | 36426         | 1.37%           | 0.173%        |
| 15        | 11.716      | 1633          | 1637        | 1646         | rBV2     | 211508         | 232384        | 8.76%           | 1.103%        |
| 16        | 12.386      | 1746          | 1751        | 1756         | rBV      | 245110         | 268309        | 10.12%          | 1.273%        |
| 17        | 12.498      | 1768          | 1770        | 1781         | rVB3     | 101418         | 121796        | 4.59%           | 0.578%        |
| 18        | 12.610      | 1784          | 1789        | 1793         | rBV      | 213712         | 224259        | 8.46%           | 1.064%        |
| 19        | 12.763      | 1811          | 1815        | 1818         | rBV      | 2624068        | 2178014       | 82.15%          | 10.336%       |
| 20        | 12.939      | 1843          | 1845        | 1849         | rVB      | 36577          | 37209         | 1.40%           | 0.177%        |
| 21        | 13.010      | 1853          | 1857        | 1860         | rVB2     | 27684          | 31313         | 1.18%           | 0.149%        |
| 22        | 13.045      | 1860          | 1863        | 1866         | rBV2     | 34846          | 39025         | 1.47%           | 0.185%        |
| 23        | 13.451      | 1929          | 1932        | 1936         | rVB      | 32280          | 41952         | 1.58%           | 0.199%        |
| 24        | 13.616      | 1957          | 1960        | 1965         | rBV4     | 38430          | 54571         | 2.06%           | 0.259%        |
| 25        | 13.686      | 1965          | 1972        | 1977         | rVV4     | 132450         | 230746        | 8.70%           | 1.095%        |
| 26        | 13.810      | 1988          | 1993        | 1996         | rBV      | 909424         | 983646        | 37.10%          | 4.668%        |
| 27        | 13.839      | 1996          | 1998        | 2000         | rVB      | 140094         | 107664        | 4.06%           | 0.511%        |
| 28        | 14.074      | 2035          | 2038        | 2040         | rBV      | 48669          | 42320         | 1.60%           | 0.201%        |
| 29        | 14.292      | 2072          | 2075        | 2078         | rBV3     | 76170          | 88990         | 3.36%           | 0.422%        |
| 30        | 14.821      | 2161          | 2165        | 2168         | rBV      | 189732         | 256491        | 9.67%           | 1.217%        |
| 31        | 14.898      | 2176          | 2178        | 2186         | rVB2     | 79142          | 100220        | 3.78%           | 0.476%        |
| 32        | 15.098      | 2209          | 2212        | 2218         | rVB      | 107892         | 113760        | 4.29%           | 0.540%        |
| 33        | 15.157      | 2219          | 2222        | 2228         | rVB      | 144846         | 159810        | 6.03%           | 0.758%        |
| 34        | 15.215      | 2228          | 2232        | 2236         | rBV      | 718578         | 829336        | 31.28%          | 3.936%        |

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Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-10

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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040820.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |       |        |       |        |
|----|--------|------|------|------|------|-------|--------|-------|--------|
| 35 | 15.645 | 2303 | 2305 | 2309 | rVB  | 75937 | 86843  | 3.28% | 0.412% |
| 36 | 16.551 | 2455 | 2459 | 2468 | rVB3 | 81191 | 174024 | 6.56% | 0.826% |
| 37 | 16.962 | 2526 | 2529 | 2534 | rVB  | 53546 | 87704  | 3.31% | 0.416% |

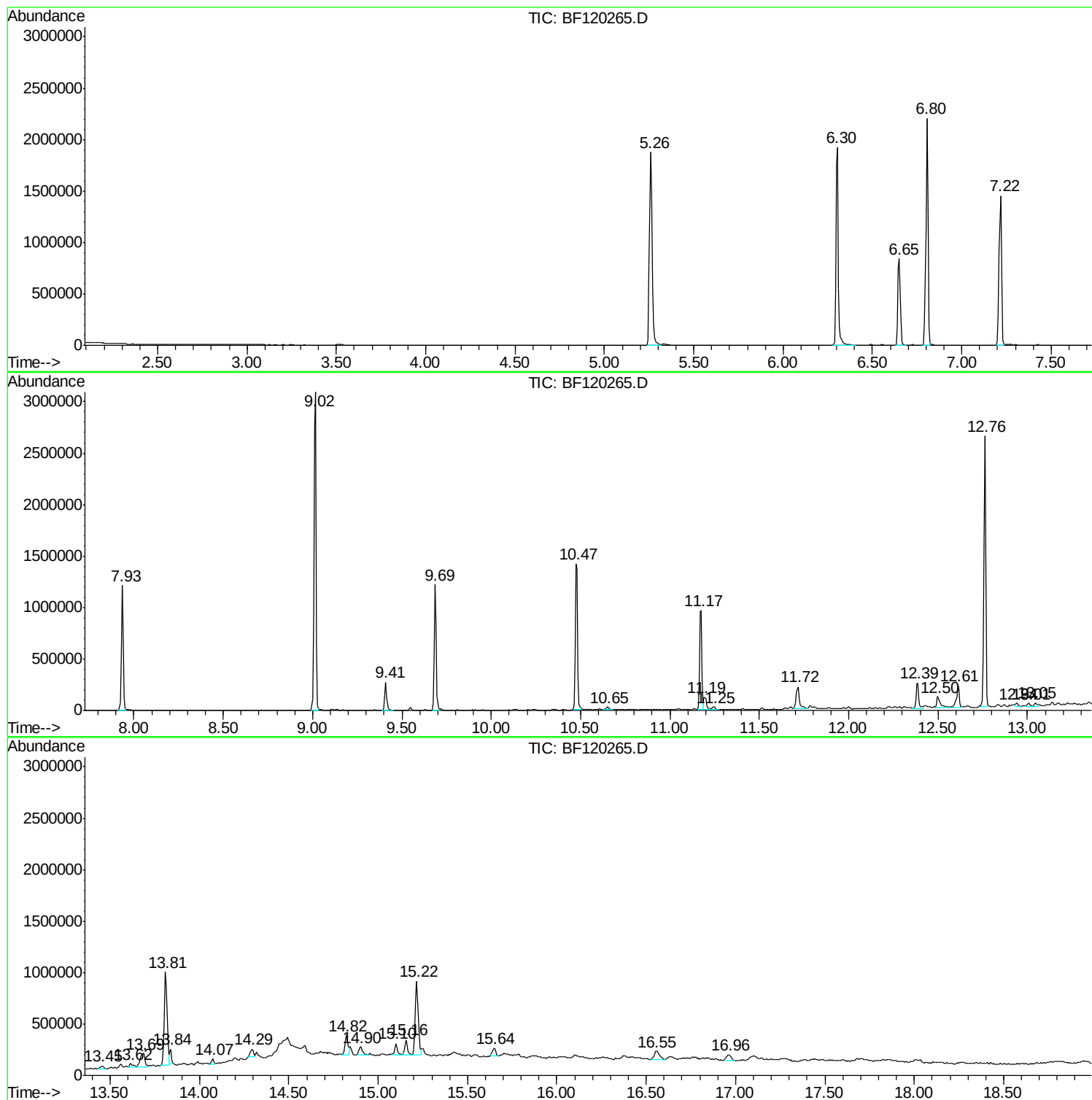
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BNA\_F  
ClientSampled :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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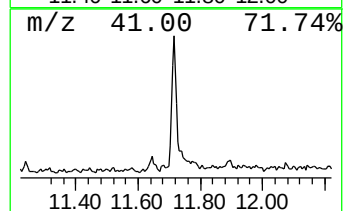
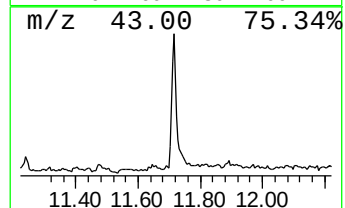
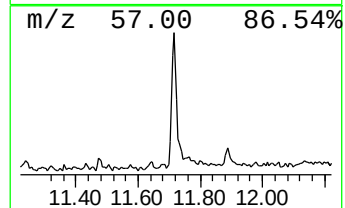
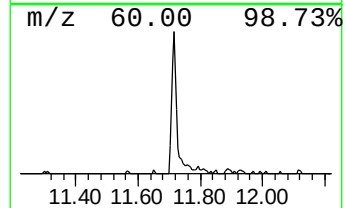
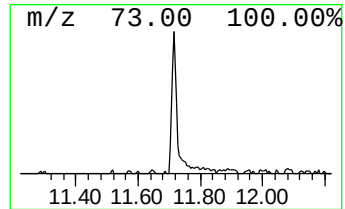
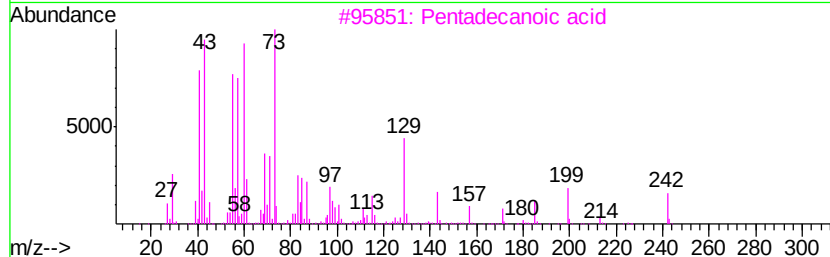
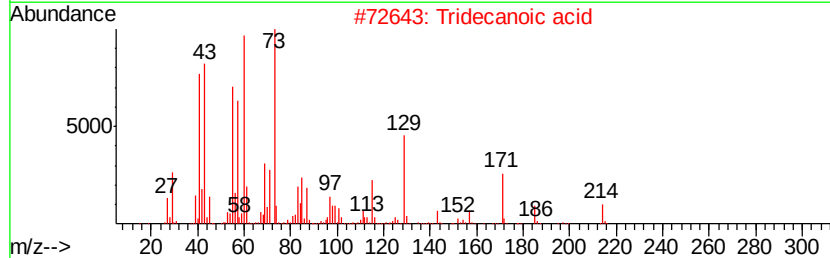
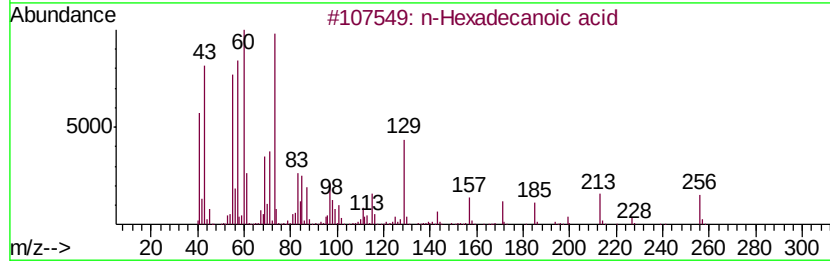
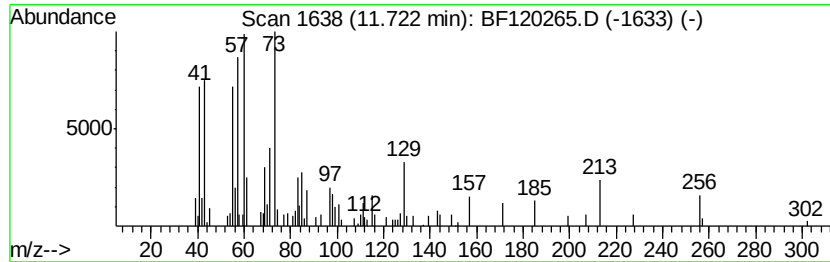
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 n-Hexadecanoic acid Concentration Rank 2

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 11.72     | 5.06 ng             | 232384 | Phenanthrene-d10 | 11.17       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 96   |
| 2         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 93   |
| 3         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 90   |
| 4         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 72   |
| 5         | Dodecanoic acid     | 200    | C12H24O2         | 000143-07-7 | 64   |



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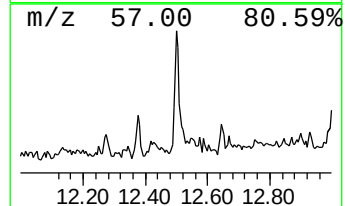
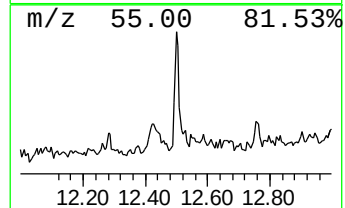
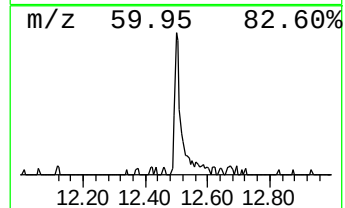
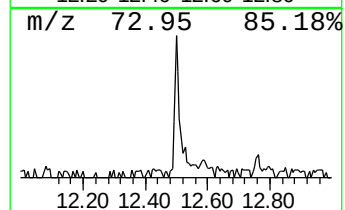
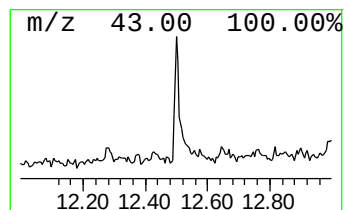
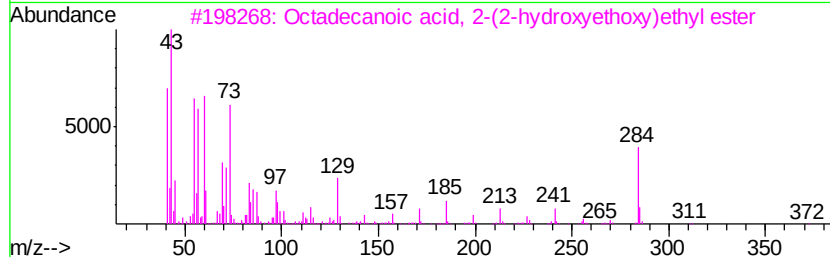
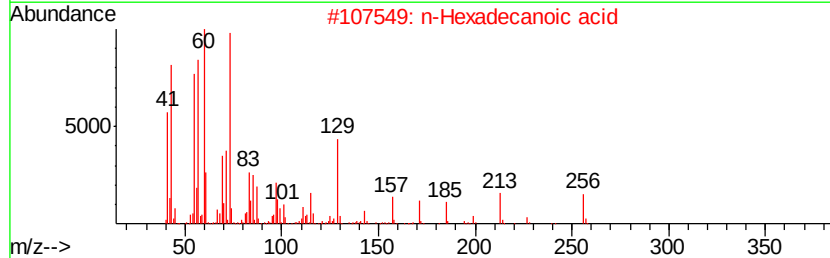
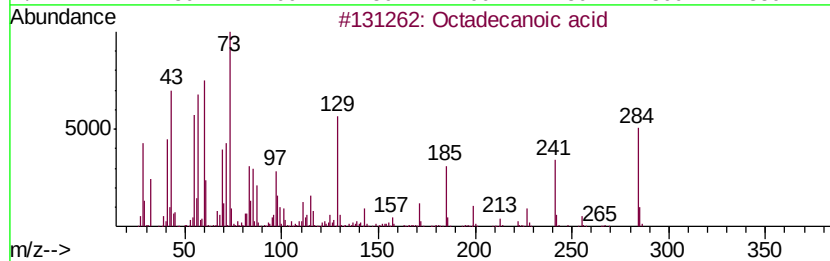
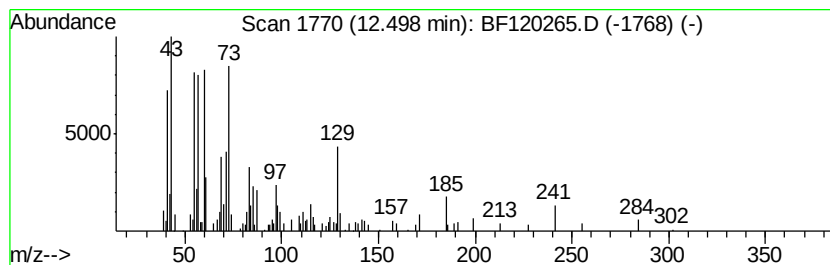
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 Octadecanoic acid Concentration Rank 5

| R.T.    | EstConc | Area                                | Relative to ISTD |          | R.T.         |      |
|---------|---------|-------------------------------------|------------------|----------|--------------|------|
| 12.50   | 2.48 ng | 121796                              | Chrysene-d12     |          | 13.81        |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm  | CAS#         | Qual |
| 1       |         | Octadecanoic acid                   | 284              | C18H36O2 | 000057-11-4  | 99   |
| 2       |         | n-Hexadecanoic acid                 | 256              | C16H32O2 | 000057-10-3  | 87   |
| 3       |         | Octadecanoic acid, 2-(2-hydroxye... | 372              | C22H44O4 | 000106-11-6  | 86   |
| 4       |         | Pentadecanoic acid                  | 242              | C15H30O2 | 001002-84-2  | 80   |
| 5       |         | Oxalic acid, allyl hexadecyl ester  | 354              | C21H38O4 | 1000309-24-4 | 20   |



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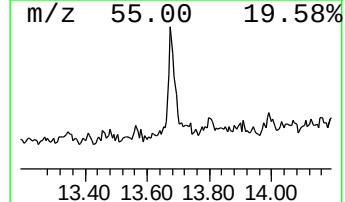
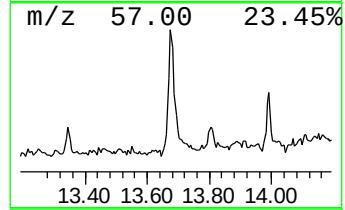
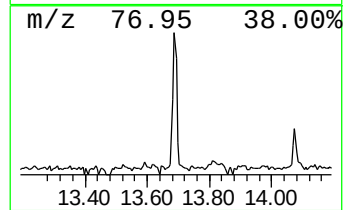
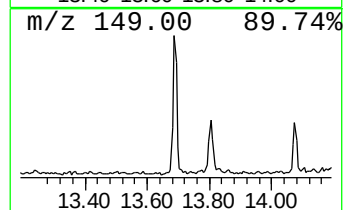
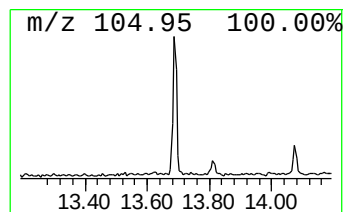
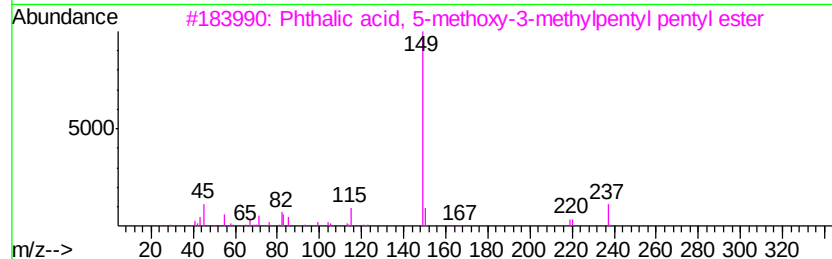
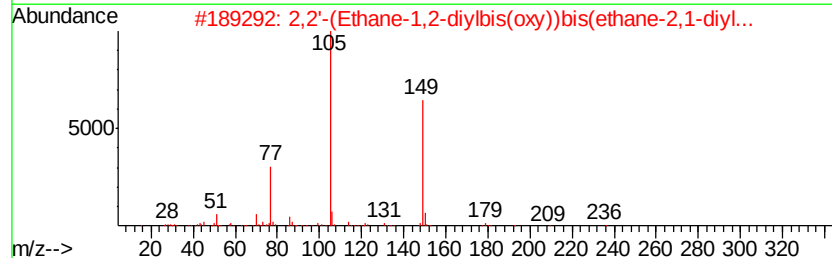
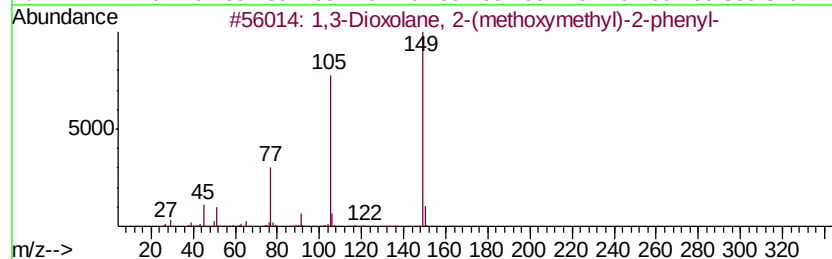
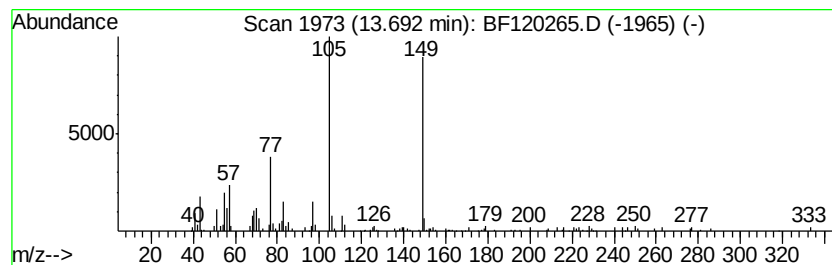
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 1,3-Dioxolane, 2-(methoxyme... Concentration Rank 3

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 13.69     | 4.69 ng                             | 230746 | Chrysene-d12     | 13.81        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | 1,3-Dioxolane, 2-(methoxymethyl)... | 194    | C11H14O3         | 1000156-71-2 | 72   |
| 2         | 2,2'-(Ethane-1,2-diylbis(oxy))bi... | 358    | C20H22O6         | 1000366-99-4 | 72   |
| 3         | Phthalic acid, 5-methoxy-3-methy... | 350    | C20H30O5         | 1000314-88-6 | 43   |
| 4         | 1-Ethyl-3-(1',1',2'-trichloroall... | 248    | C11H11Cl3        | 1000110-27-4 | 43   |
| 5         | Phthalic acid, pent-4-enyl tetra... | 430    | C27H42O4         | 1000360-47-3 | 38   |



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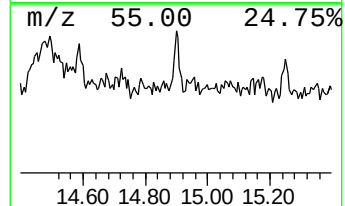
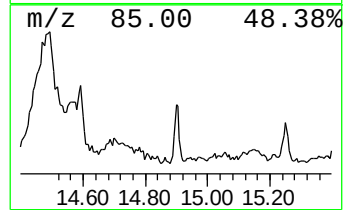
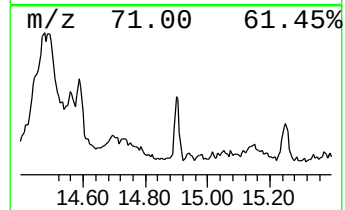
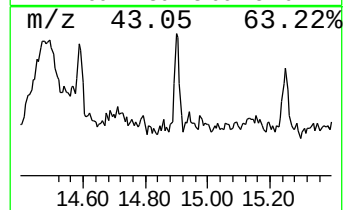
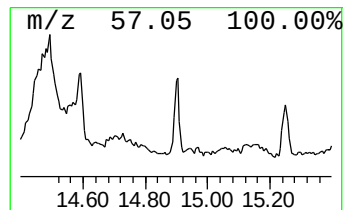
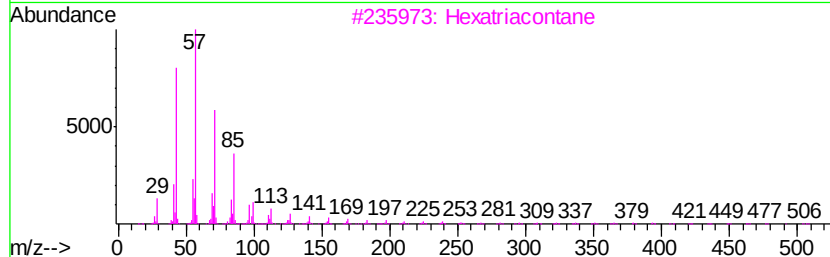
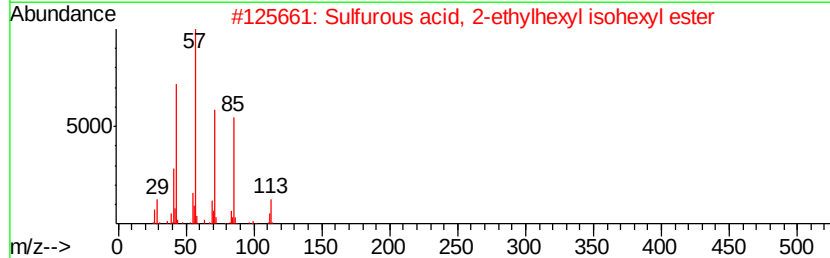
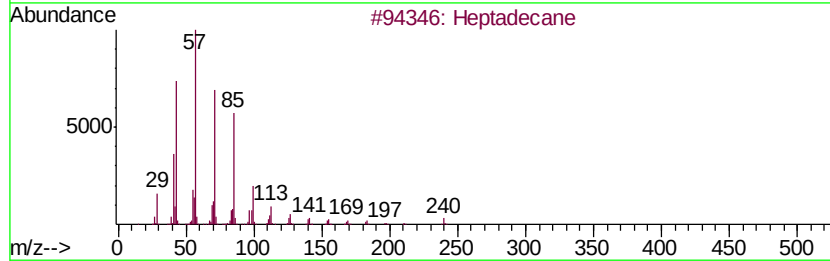
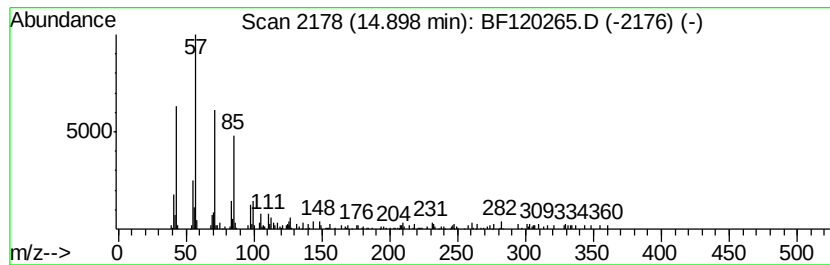
Instrument :  
BNA\_F  
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TP-10

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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 5 Heptadecane Concentration Rank 6

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 14.90     | 2.42 ng                             | 100220 | Perylene-d12     | 15.22        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Heptadecane                         | 240    | C17H36           | 000629-78-7  | 81   |
| 2         | Sulfurous acid, 2-ethylhexyl iso... | 278    | C14H30O3S        | 1000309-19-0 | 59   |
| 3         | Hexatriacontane                     | 507    | C36H74           | 000630-06-8  | 58   |
| 4         | Hexadecane, 7-methyl-               | 240    | C17H36           | 026730-20-1  | 58   |
| 5         | Tetratetracontane                   | 619    | C44H90           | 007098-22-8  | 58   |



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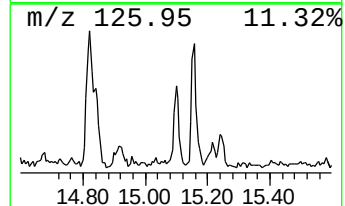
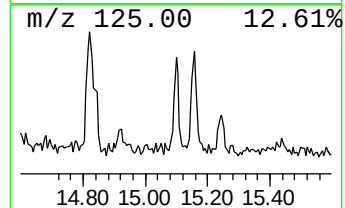
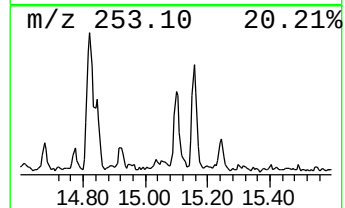
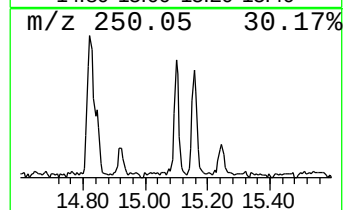
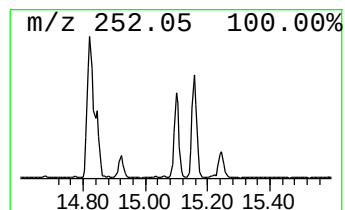
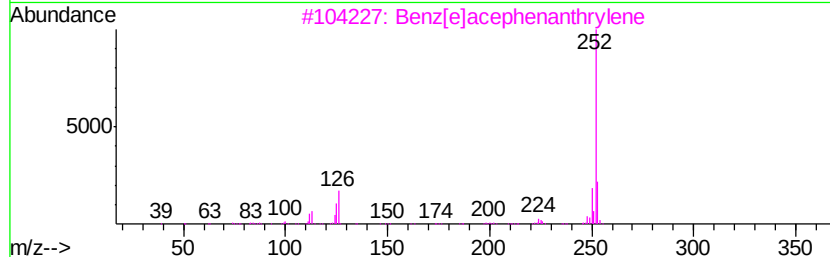
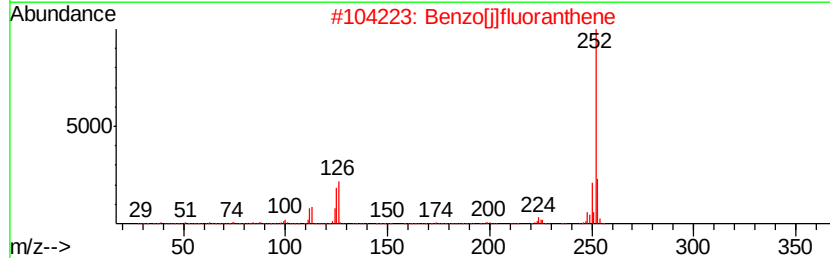
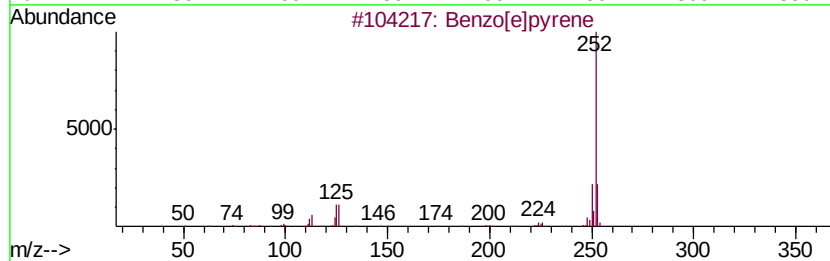
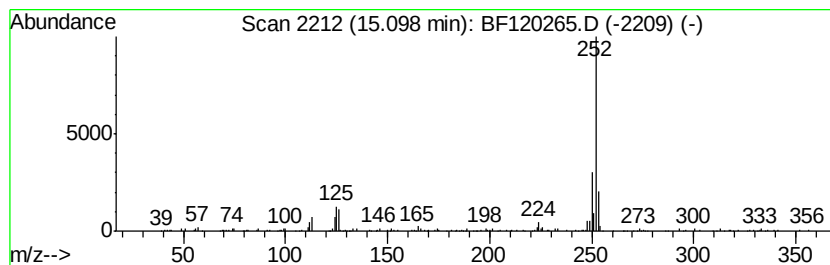
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Benzo[e]pyrene Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.10 | 2.74 ng | 113760 | Perylene-d12     | 15.22 |

| Hit# of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------|-----|---------|-------------|------|
| 1       |   | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 98   |
| 2       |   | Benzo[j]fluoranthene     | 252 | C20H12  | 000205-82-3 | 96   |
| 3       |   | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 95   |
| 4       |   | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 95   |
| 5       |   | Perylene                 | 252 | C20H12  | 000198-55-0 | 90   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF050120\  
Data File : BF120265.D  
Acq On : 1 May 2020 18:26  
Operator : MA/SJ  
Sample : L2376-10  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

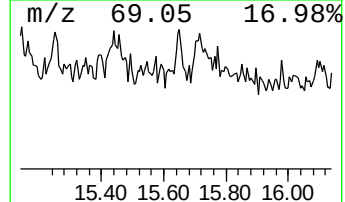
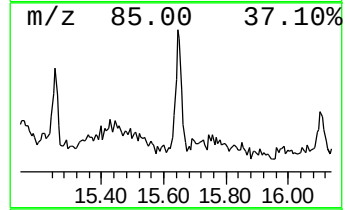
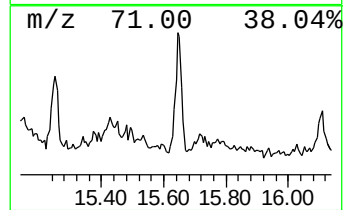
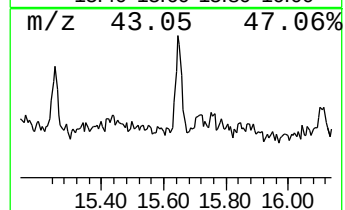
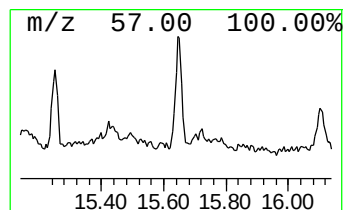
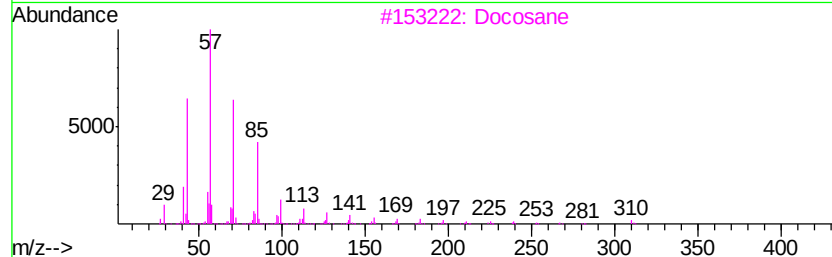
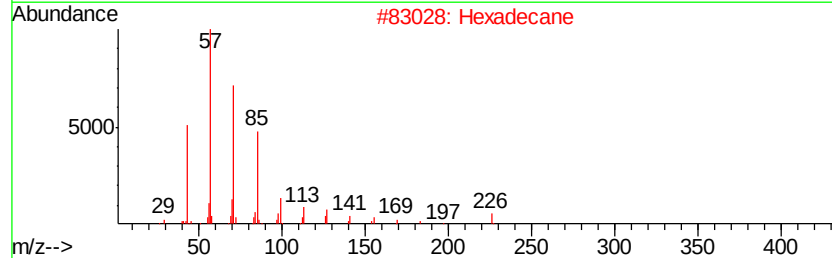
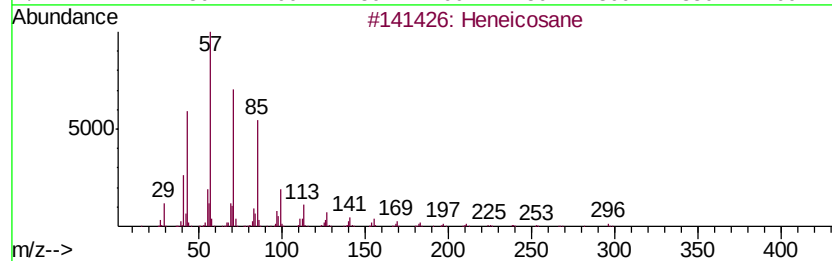
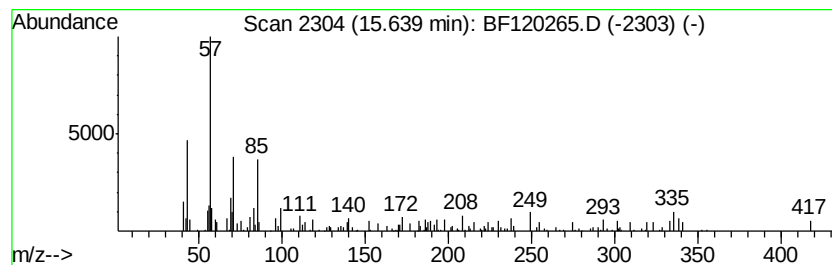
Instrument :  
BNA\_F  
ClientSampleId :  
TP-10

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040820.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 Heneicosane Concentration Rank 7

| R.T.    | EstConc                 | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------|--------------|------------------|-----------|
| 15.64   | 2.09 ng                 | 86843        | Perylene-d12     | 15.22     |
| Hit# of | 5                       | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Heneicosane             | 296 C21H44   | 000629-94-7      | 86        |
| 2       | Hexadecane              | 226 C16H34   | 000544-76-3      | 86        |
| 3       | Docosane                | 310 C22H46   | 000629-97-0      | 70        |
| 4       | Tetradecane             | 198 C14H30   | 000629-59-4      | 58        |
| 5       | Heneicosane, 10-methyl- | 310 C22H46   | 013287-25-7      | 58        |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF050120\  
Data File : BF120265.D  
Acq On : 1 May 2020 18:26  
Operator : MA/SJ  
Sample : L2376-10  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-10

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040820.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 |
| n-Hexadecanoic acid  | 11.72 | 5.1 ng  |       | 232384   | 4                     | 11.17 | 919319 | 20.0 |
| Octadecanoic acid    | 12.50 | 2.5 ng  |       | 121796   | 5                     | 13.81 | 983646 | 20.0 |
| 1,3-Dioxolane, 2-... | 13.69 | 4.7 ng  |       | 230746   | 5                     | 13.81 | 983646 | 20.0 |
| Heptadecane          | 14.90 | 2.4 ng  |       | 100220   | 6                     | 15.22 | 829336 | 20.0 |
| Benzo[e]pyrene       | 15.10 | 2.7 ng  |       | 113760   | 6                     | 15.22 | 829336 | 20.0 |
| Heneicosane          | 15.64 | 2.1 ng  |       | 86843    | 6                     | 15.22 | 829336 | 20.0 |