

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF020720\  
 Data File : BF118846.D  
 Acq On : 7 Feb 2020 13:13  
 Operator : CG/JU  
 Sample : L1421-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-12017

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-BF020320.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         | 5.434       | 564           | 569         | 572          | rBV      | 3861390        | 3650129       | 60.43%          | 7.527%        |
| 2         | 6.446       | 736           | 741         | 744          | rBV      | 3787423        | 3643837       | 60.33%          | 7.514%        |
| 3         | 6.810       | 800           | 803         | 807          | rBV      | 1500898        | 1287707       | 21.32%          | 2.656%        |
| 4         | 6.969       | 826           | 830         | 834          | rBV      | 3786943        | 3227923       | 53.44%          | 6.657%        |
| 5         | 7.369       | 894           | 898         | 902          | rBV      | 2517895        | 2464021       | 40.79%          | 5.081%        |
| 6         | 8.092       | 1017          | 1021        | 1025         | rBV      | 1818802        | 1637467       | 27.11%          | 3.377%        |
| 7         | 9.169       | 1199          | 1204        | 1219         | rBV      | 4881469        | 4944486       | 81.86%          | 10.197%       |
| 8         | 9.563       | 1267          | 1271        | 1278         | rBV      | 160173         | 163934        | 2.71%           | 0.338%        |
| 9         | 9.657       | 1283          | 1287        | 1294         | rVB      | 59488          | 88047         | 1.46%           | 0.182%        |
| 10        | 9.851       | 1315          | 1320        | 1333         | rBV      | 2021510        | 2107263       | 34.89%          | 4.346%        |
| 11        | 10.634      | 1449          | 1453        | 1467         | rBV      | 3394007        | 3705119       | 61.34%          | 7.641%        |
| 12        | 11.145      | 1535          | 1540        | 1544         | rBV      | 87361          | 97460         | 1.61%           | 0.201%        |
| 13        | 11.333      | 1567          | 1572        | 1575         | rBV      | 2596446        | 2335009       | 38.66%          | 4.815%        |
| 14        | 11.786      | 1636          | 1649        | 1651         | rBV6     | 51150          | 152326        | 2.52%           | 0.314%        |
| 15        | 11.863      | 1658          | 1662        | 1672         | rVB      | 898484         | 975793        | 16.16%          | 2.012%        |
| 16        | 12.545      | 1774          | 1778        | 1780         | rBV      | 193754         | 192560        | 3.19%           | 0.397%        |
| 17        | 12.645      | 1791          | 1795        | 1808         | rBV      | 440877         | 597632        | 9.89%           | 1.232%        |
| 18        | 12.769      | 1813          | 1816        | 1819         | rVB      | 183997         | 169671        | 2.81%           | 0.350%        |
| 19        | 12.916      | 1837          | 1841        | 1845         | rBV      | 5794891        | 6040073       | 100.00%         | 12.456%       |
| 20        | 13.145      | 1875          | 1880        | 1885         | rBV4     | 29663          | 64623         | 1.07%           | 0.133%        |
| 21        | 13.816      | 1990          | 1994        | 2000         | rBV2     | 668307         | 1031982       | 17.09%          | 2.128%        |
| 22        | 13.969      | 2014          | 2020        | 2024         | rBV      | 2650529        | 2734585       | 45.27%          | 5.639%        |
| 23        | 14.139      | 2045          | 2049        | 2055         | rVB2     | 191130         | 221232        | 3.66%           | 0.456%        |
| 24        | 14.386      | 2084          | 2091        | 2096         | rBV7     | 88452          | 270145        | 4.47%           | 0.557%        |
| 25        | 14.439      | 2097          | 2100        | 2109         | rVB2     | 313874         | 447883        | 7.42%           | 0.924%        |
| 26        | 14.598      | 2124          | 2127        | 2131         | rBV2     | 75272          | 93454         | 1.55%           | 0.193%        |
| 27        | 14.745      | 2145          | 2152        | 2156         | rVB      | 479331         | 602023        | 9.97%           | 1.241%        |
| 28        | 14.816      | 2161          | 2164        | 2170         | rVB2     | 111408         | 141051        | 2.34%           | 0.291%        |
| 29        | 14.998      | 2191          | 2195        | 2203         | rVB      | 121528         | 235301        | 3.90%           | 0.485%        |
| 30        | 15.074      | 2203          | 2208        | 2211         | rVV      | 478478         | 575111        | 9.52%           | 1.186%        |
| 31        | 15.110      | 2211          | 2214        | 2224         | rVB4     | 103617         | 219921        | 3.64%           | 0.454%        |
| 32        | 15.292      | 2242          | 2245        | 2252         | rBV      | 71321          | 102037        | 1.69%           | 0.210%        |
| 33        | 15.351      | 2252          | 2255        | 2260         | rVB      | 86983          | 106231        | 1.76%           | 0.219%        |
| 34        | 15.421      | 2261          | 2267        | 2270         | rBV      | 1828368        | 2619444       | 43.37%          | 5.402%        |

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Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
72-12017

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-BF020320.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 35 | 15.445 | 2270 | 2271 | 2278 | rVB  | 477051 | 454995 | 7.53% | 0.938% |
| 36 | 15.874 | 2338 | 2344 | 2349 | rBV  | 288221 | 445693 | 7.38% | 0.919% |
| 37 | 15.933 | 2350 | 2354 | 2362 | rVB4 | 66698  | 135207 | 2.24% | 0.279% |
| 38 | 16.363 | 2422 | 2427 | 2433 | rBV  | 152613 | 277312 | 4.59% | 0.572% |
| 39 | 16.845 | 2507 | 2509 | 2518 | rVB3 | 38618  | 83404  | 1.38% | 0.172% |
| 40 | 16.945 | 2521 | 2526 | 2535 | rVB2 | 68650  | 149677 | 2.48% | 0.309% |

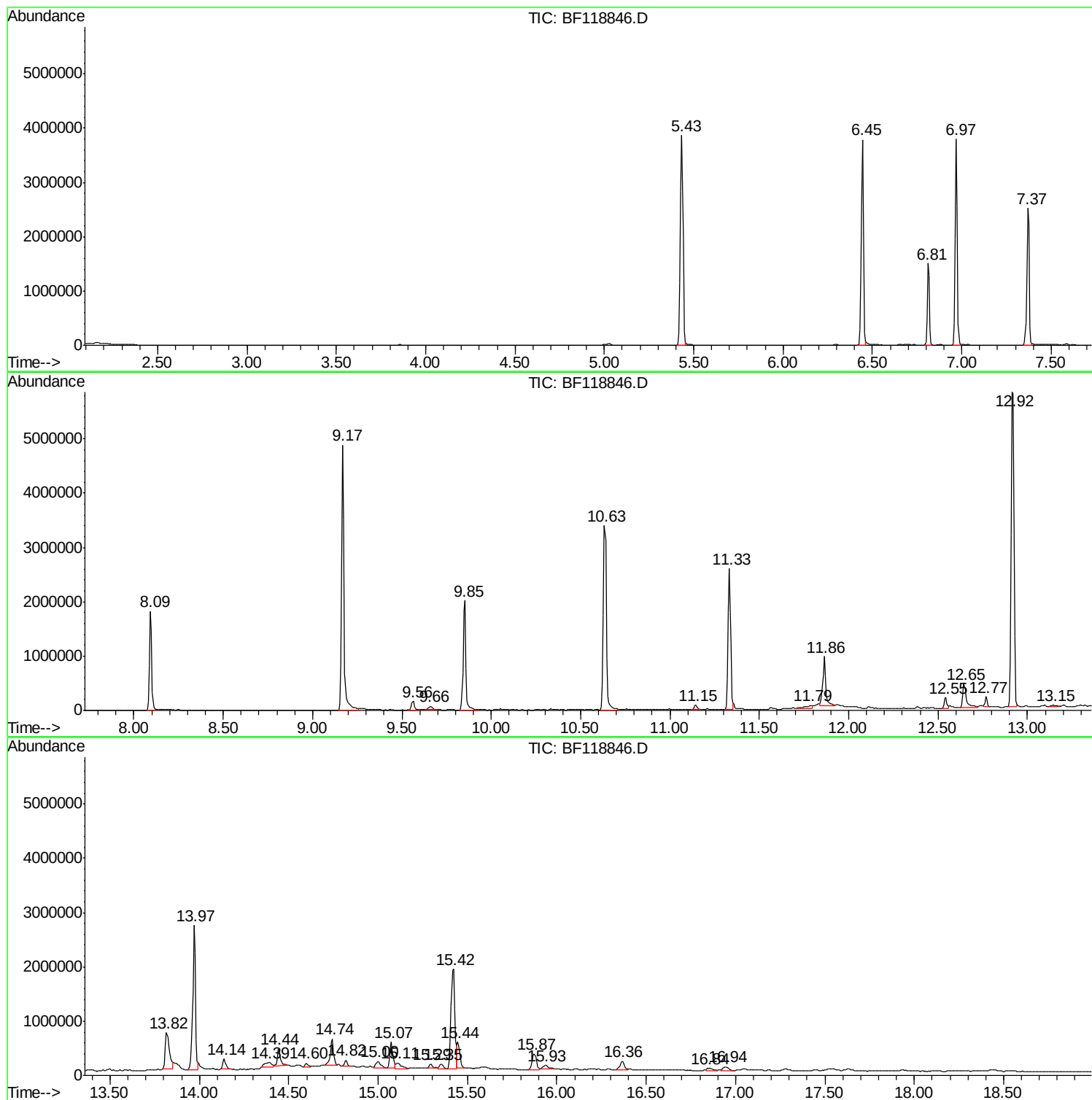
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Instrument :  
BNA\_F  
ClientSampled :  
72-12017

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.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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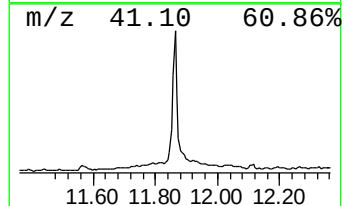
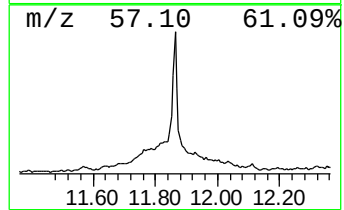
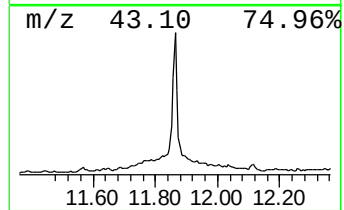
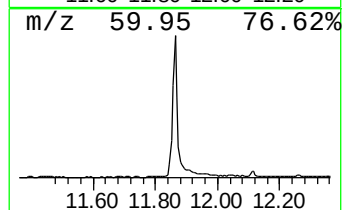
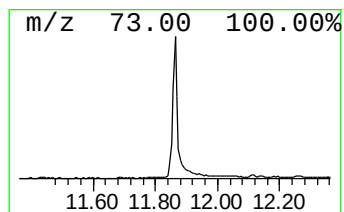
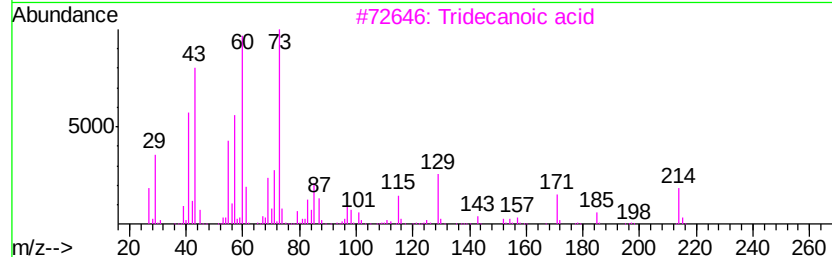
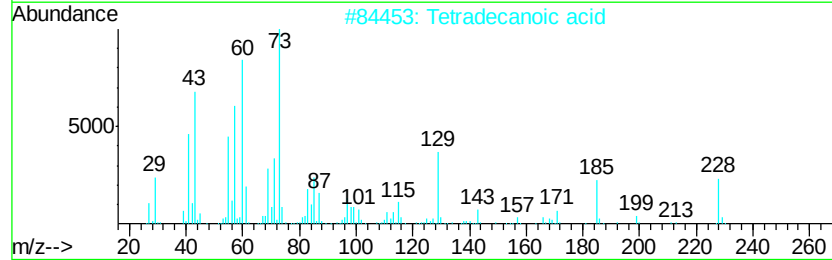
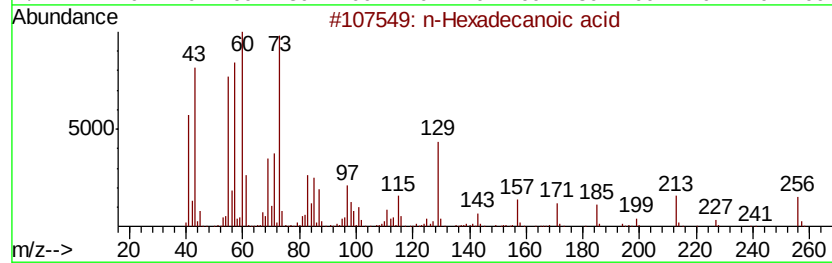
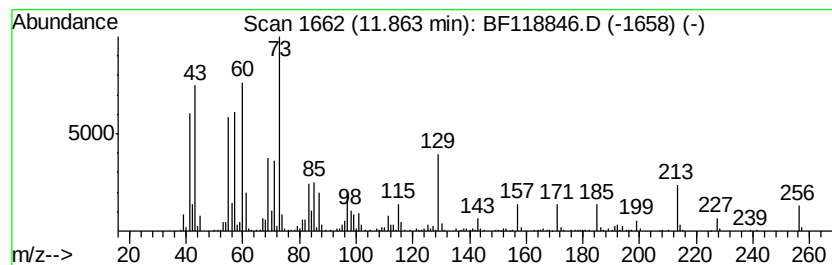
Instrument :  
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ClientSampleId :  
72-12017

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.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.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 11.86     | 8.36 ng             | 975793 | Phenanthrene-d10 |             | 11.33 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 99    |
| 2         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 94    |
| 3         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 90    |
| 4         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 87    |
| 5         | Dodecanoic acid     | 200    | C12H24O2         | 000143-07-7 | 59    |



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Misc :  
ALS Vial : 3 Sample Multiplier: 1

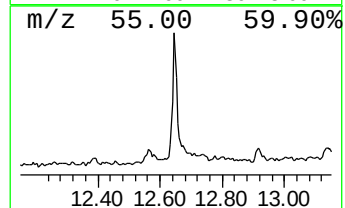
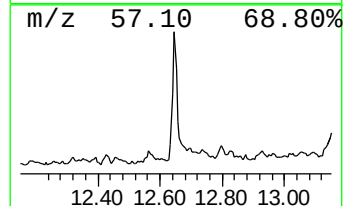
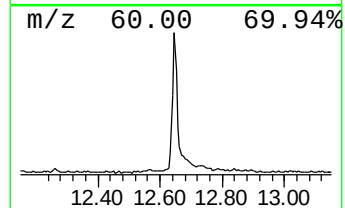
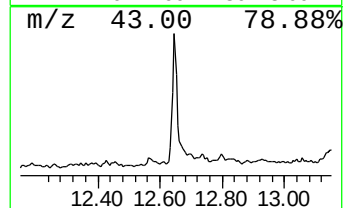
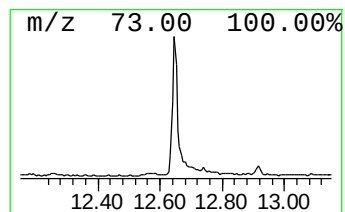
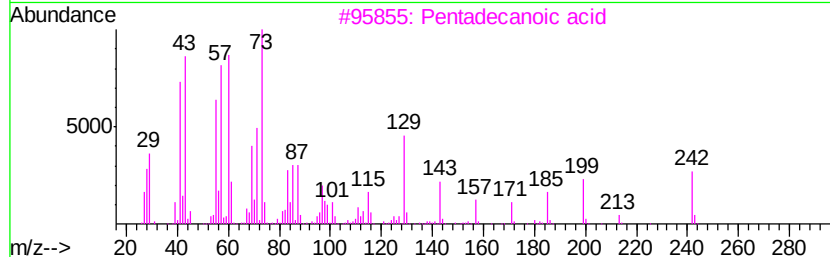
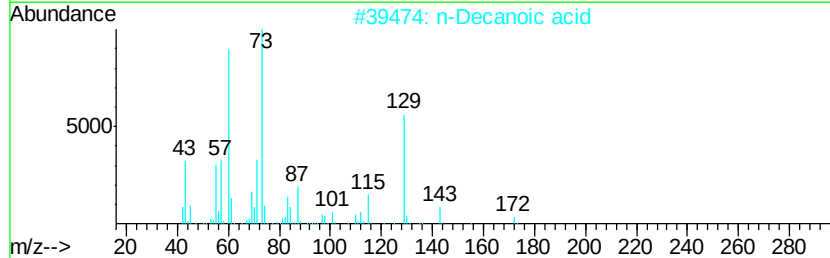
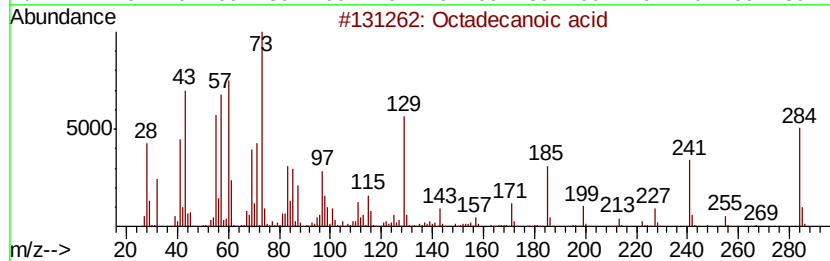
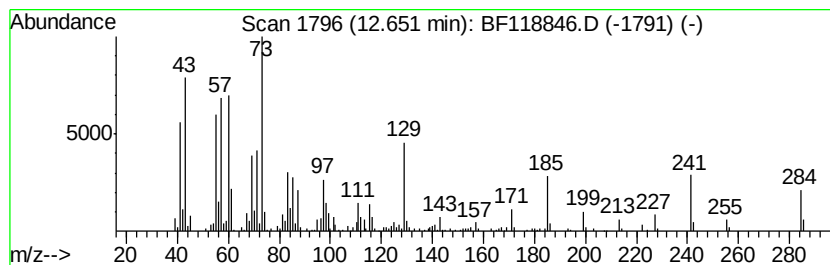
Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 Octadecanoic acid Concentration Rank 4

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 12.65     | 5.12 ng             | 597632 | Phenanthrene-d10 | 11.33       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | Octadecanoic acid   | 284    | C18H36O2         | 000057-11-4 | 99   |
| 2         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 91   |
| 3         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 90   |
| 4         | Undecanoic acid     | 186    | C11H22O2         | 000112-37-8 | 74   |
| 5         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 68   |



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ALS Vial : 3 Sample Multiplier: 1

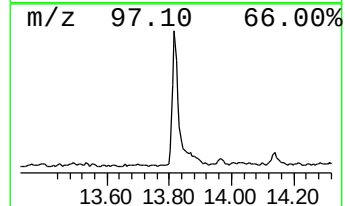
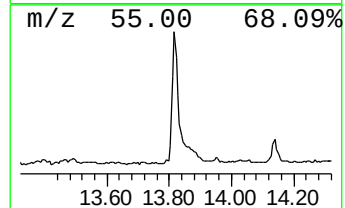
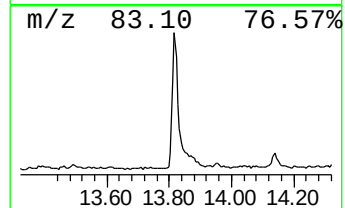
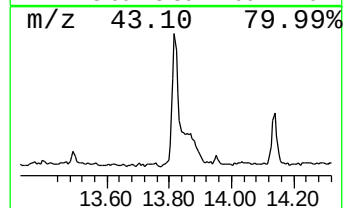
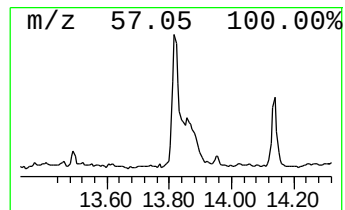
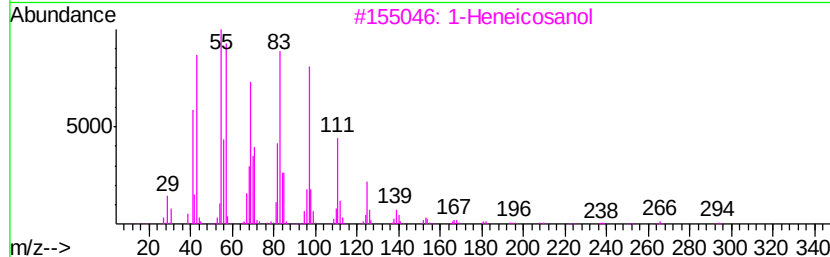
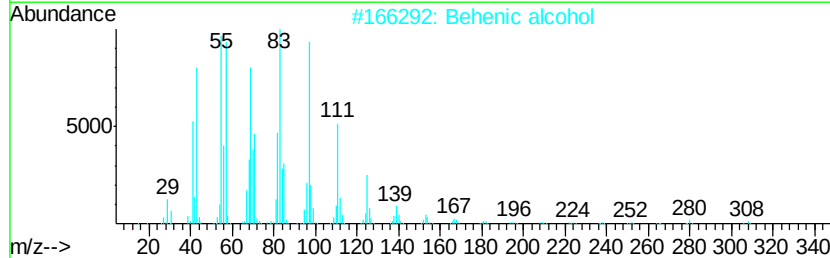
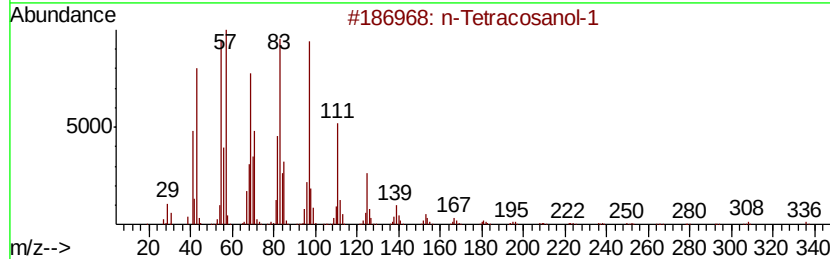
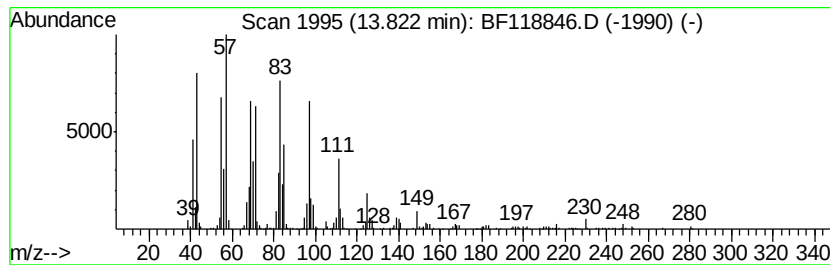
Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 n-Tetracosanol-1 Concentration Rank 3

| R.T.    | EstConc                             | Area            | Relative to ISTD | R.T.      |
|---------|-------------------------------------|-----------------|------------------|-----------|
| 13.82   | 7.55 ng                             | 1031980         | Chrysene-d12     | 13.97     |
| Hit# of | 5                                   | Tentative ID    | MW MolForm       | CAS# Qual |
| 1       | n-Tetracosanol-1                    | 354 C24H50O     | 000506-51-4      | 93        |
| 2       | Behenic alcohol                     | 326 C22H46O     | 000661-19-8      | 93        |
| 3       | 1-Heneicosanol                      | 312 C21H44O     | 015594-90-8      | 93        |
| 4       | E-14-Hexadecenal                    | 238 C16H30O     | 330207-53-9      | 92        |
| 5       | Trichloroacetic acid, hexadecyl ... | 386 C18H33Cl3O2 | 074339-54-1      | 91        |



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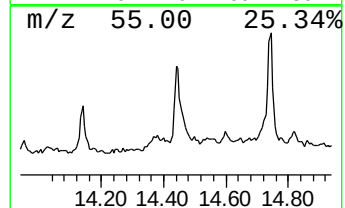
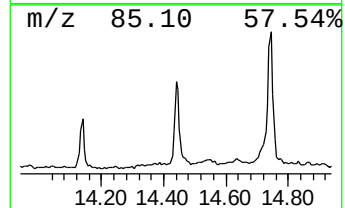
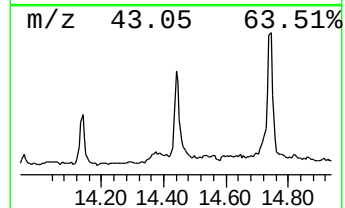
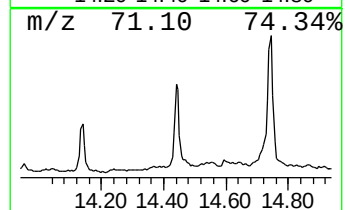
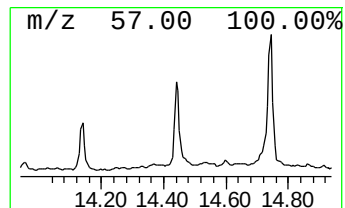
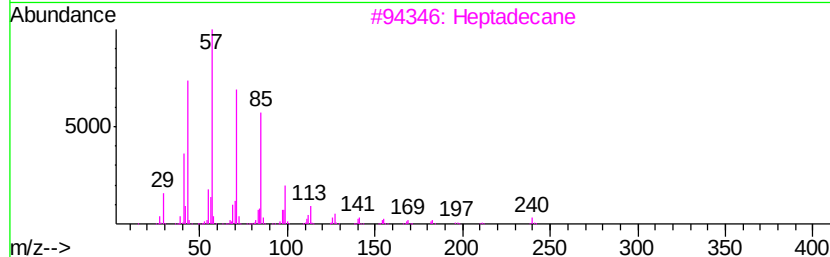
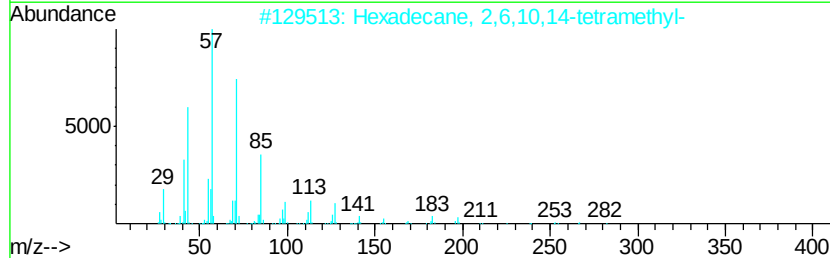
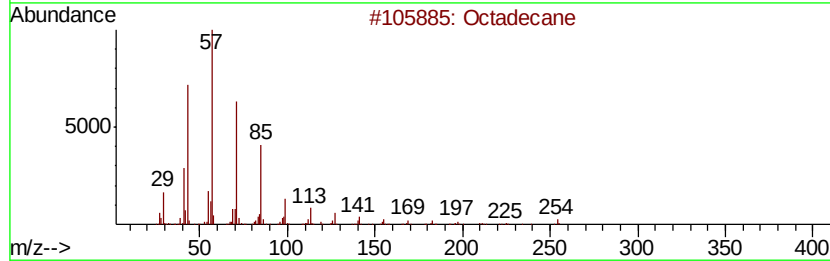
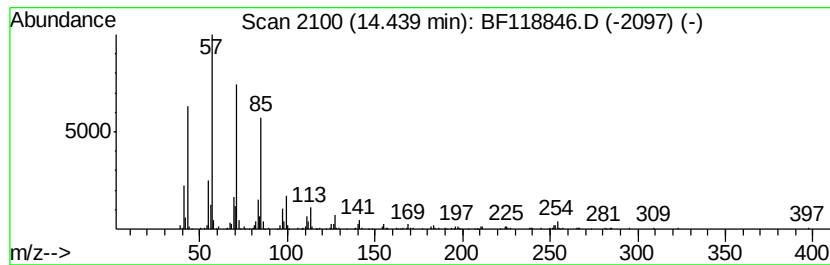
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Octadecane Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.44 | 3.28 ng | 447883 | Chrysene-d12     | 13.97 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Octadecane                         | 254 | C18H38  | 000593-45-3 | 96   |
| 2    |    | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42  | 000638-36-8 | 93   |
| 3    |    | Heptadecane                        | 240 | C17H36  | 000629-78-7 | 93   |
| 4    |    | Hexacosane                         | 366 | C26H54  | 000630-01-3 | 90   |
| 5    |    | Heneicosane                        | 296 | C21H44  | 000629-94-7 | 90   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

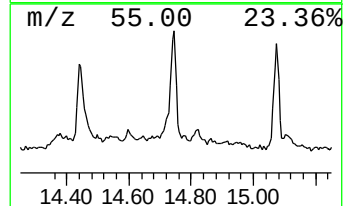
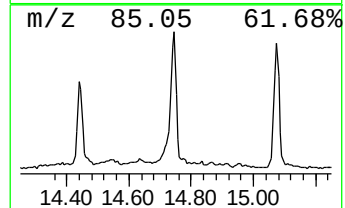
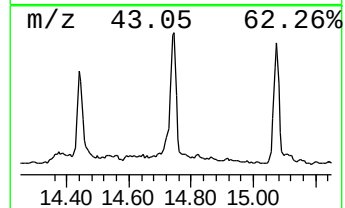
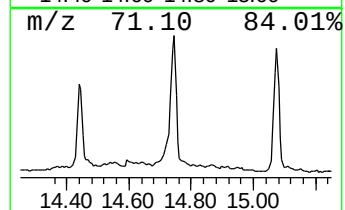
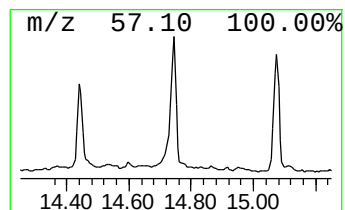
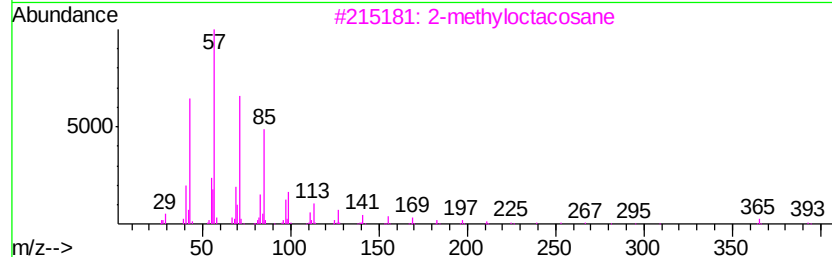
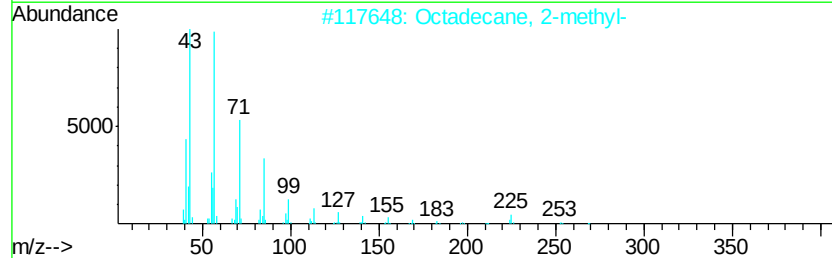
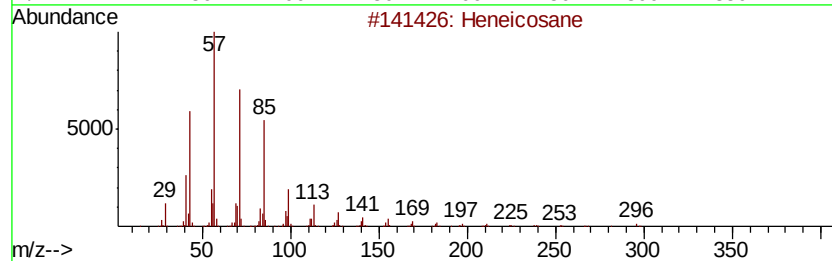
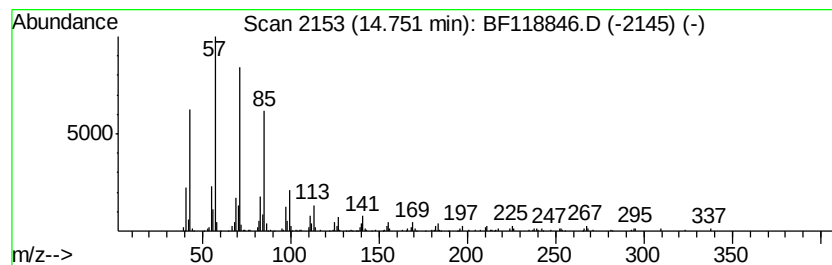
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Heneicosane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.75 | 4.60 ng | 602023 | Perylene-d12     | 15.42 |

| Hit# of | 5                                | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|----------------------------------|--------------|-----|---------|--------------|------|
| 1       | Heneicosane                      |              | 296 | C21H44  | 000629-94-7  | 91   |
| 2       | Octadecane, 2-methyl-            |              | 268 | C19H40  | 001560-88-9  | 91   |
| 3       | 2-methyloctacosane               |              | 408 | C29H60  | 1000376-72-8 | 91   |
| 4       | Heneicosane, 11-(1-ethylpropyl)- |              | 366 | C26H54  | 055282-11-6  | 91   |
| 5       | Hexacosane                       |              | 366 | C26H54  | 000630-01-3  | 90   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\  
Data File : BF118846.D  
Acq On : 7 Feb 2020 13:13  
Operator : CG/JU  
Sample : L1421-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
72-12017

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

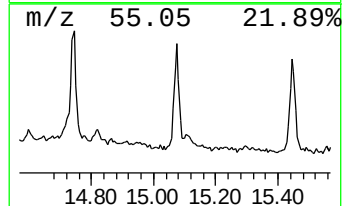
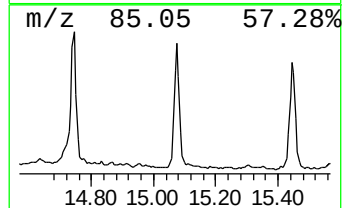
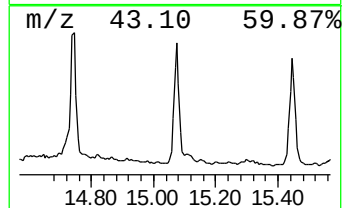
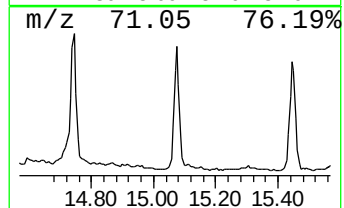
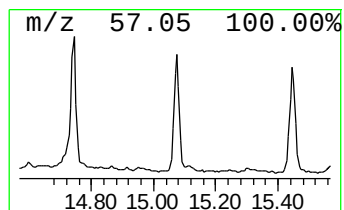
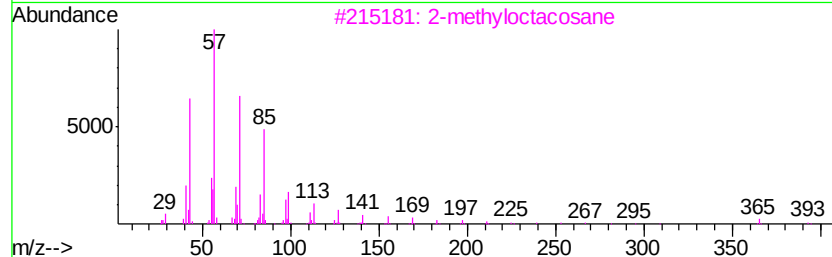
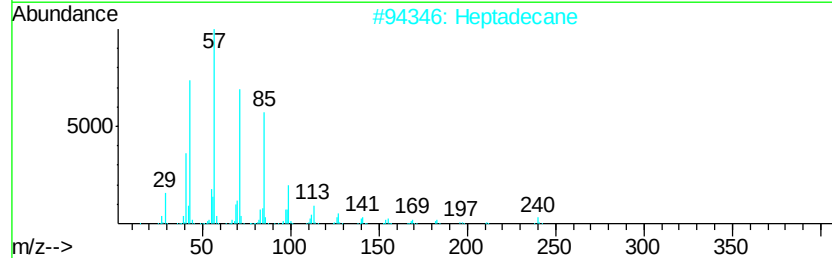
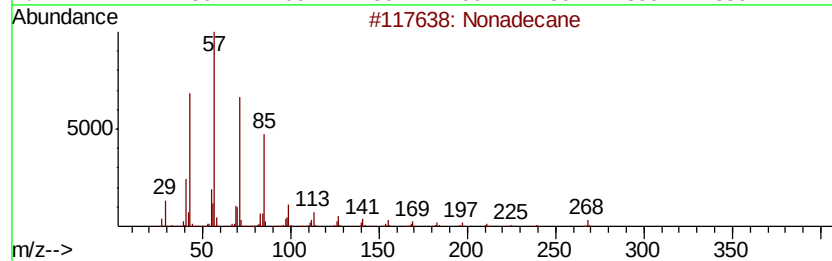
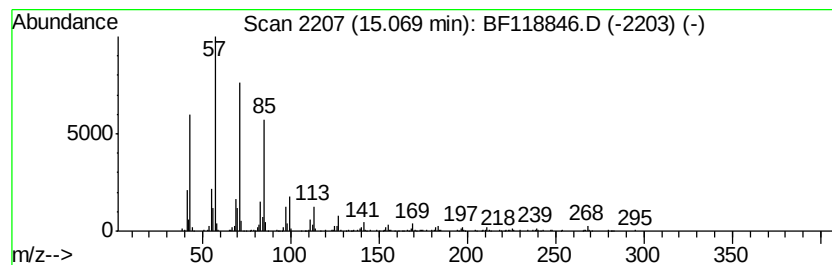
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Nonadecane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.07 | 4.39 ng | 575111 | Perylene-d12     | 15.42 |

| Hit# of | 5                  | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|--------------------|--------------|-----|---------|--------------|------|
| 1       | Nonadecane         |              | 268 | C19H40  | 000629-92-5  | 95   |
| 2       | Heptadecane        |              | 240 | C17H36  | 000629-78-7  | 93   |
| 3       | 2-methyloctacosane |              | 408 | C29H60  | 1000376-72-8 | 91   |
| 4       | Tetracosane        |              | 338 | C24H50  | 000646-31-1  | 91   |
| 5       | triacontane        |              | 422 | C30H62  | 000638-68-6  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\  
Data File : BF118846.D  
Acq On : 7 Feb 2020 13:13  
Operator : CG/JU  
Sample : L1421-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
72-12017

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

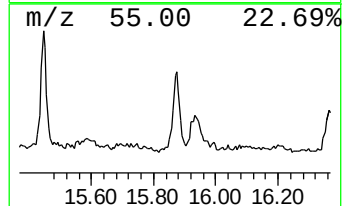
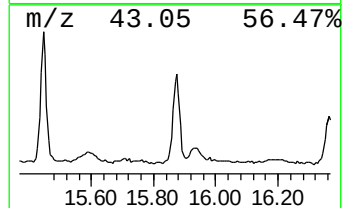
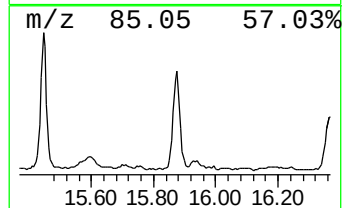
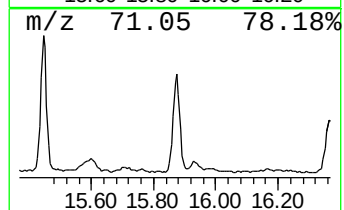
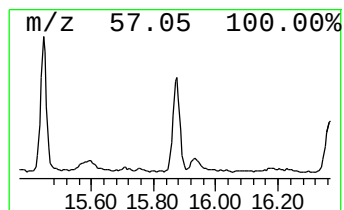
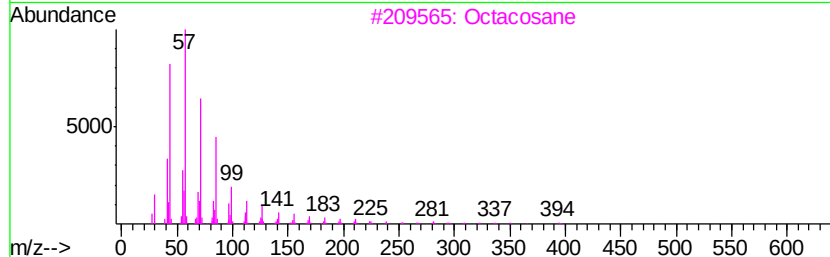
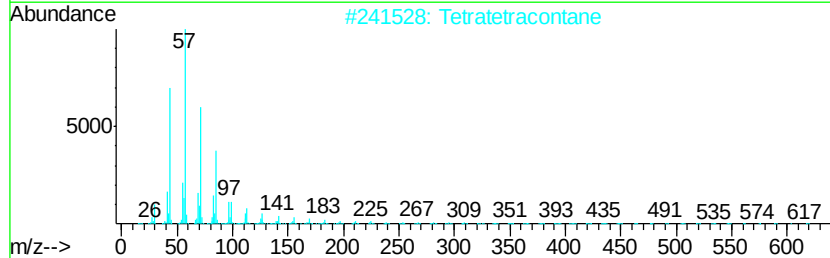
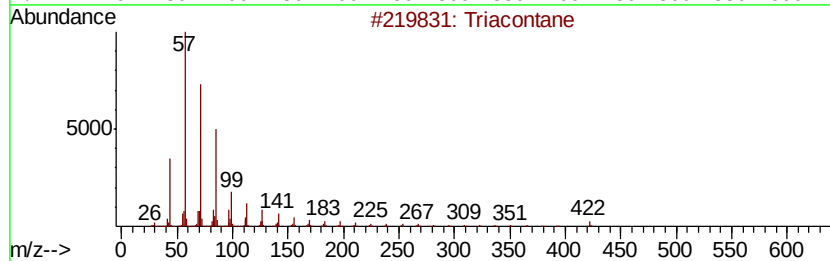
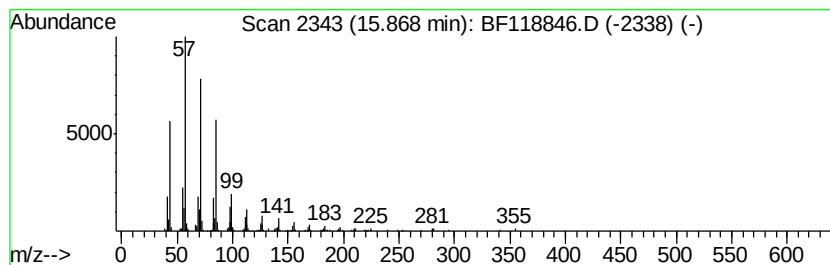
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Triacontane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.87 | 3.40 ng | 445693 | Perylene-d12     | 15.42 |

| Hit# of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------|-----|---------|-------------|------|
| 1       |   | Triacontane       | 422 | C30H62  | 000638-68-6 | 91   |
| 2       |   | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 91   |
| 3       |   | Octacosane        | 394 | C28H58  | 000630-02-4 | 91   |
| 4       |   | Pentacosane       | 352 | C25H52  | 000629-99-2 | 91   |
| 5       |   | Heneicosane       | 296 | C21H44  | 000629-94-7 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020720\  
Data File : BF118846.D  
Acq On : 7 Feb 2020 13:13  
Operator : CG/JU  
Sample : L1421-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

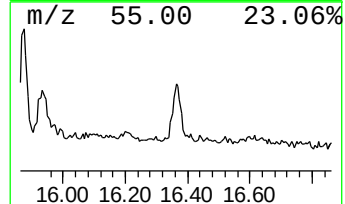
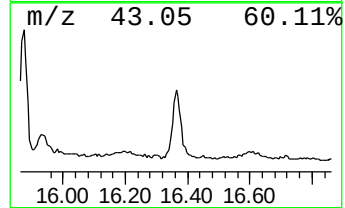
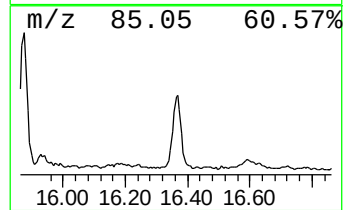
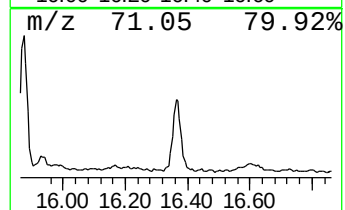
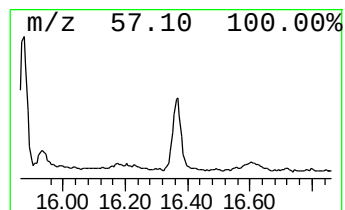
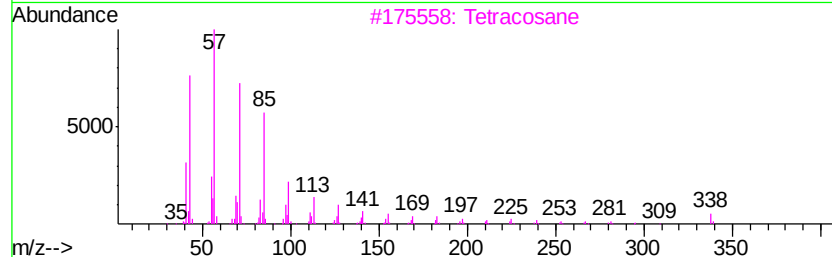
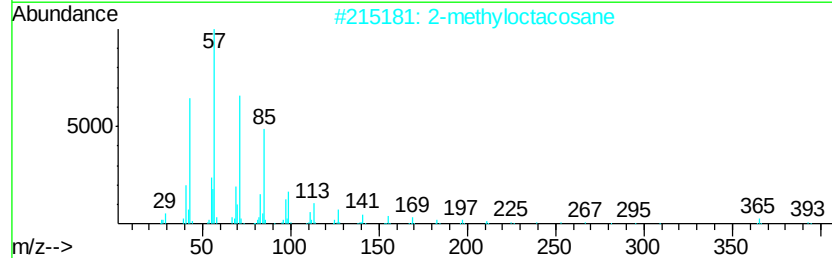
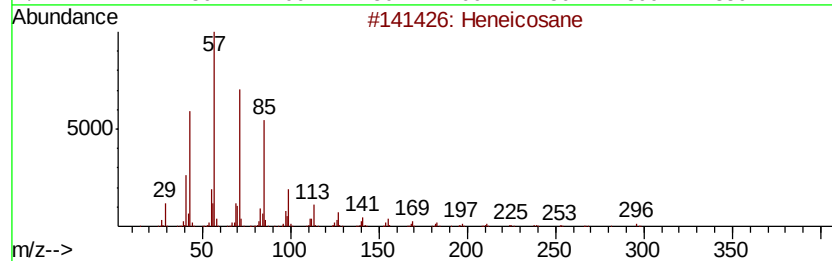
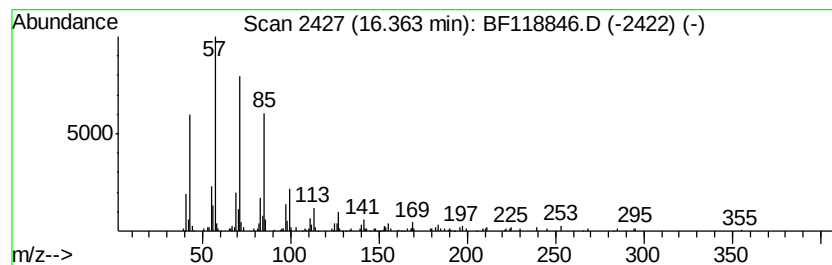
Instrument :  
BNA\_F  
ClientSampleId :  
72-12017

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.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 9 2-methyloctacosane Concentration Rank 9

| R.T.    | EstConc            | Area         | Relative to ISTD | R.T.      |
|---------|--------------------|--------------|------------------|-----------|
| 16.36   | 2.12 ng            | 277312       | Perylene-d12     | 15.42     |
| Hit# of | 5                  | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Heneicosane        | 296 C21H44   | 000629-94-7      | 91        |
| 2       | 2-methyloctacosane | 408 C29H60   | 1000376-72-8     | 91        |
| 3       | Tetracosane        | 338 C24H50   | 000646-31-1      | 91        |
| 4       | triacontane        | 422 C30H62   | 000638-68-6      | 91        |
| 5       | Eicosane           | 282 C20H42   | 000112-95-8      | 91        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF020720\  
Data File : BF118846.D  
Acq On : 7 Feb 2020 13:13  
Operator : CG/JU  
Sample : L1421-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
72-12017

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF020320.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 | 11.86 | 8.4     | ng    | 975793   | 4                     | 11.33 | 2335010 | 20.0 |
| Octadecanoic acid   | 12.65 | 5.1     | ng    | 597632   | 4                     | 11.33 | 2335010 | 20.0 |
| n-Tetracosanol-1    | 13.82 | 7.5     | ng    | 1031980  | 5                     | 13.97 | 2734590 | 20.0 |
| Octadecane          | 14.44 | 3.3     | ng    | 447883   | 5                     | 13.97 | 2734590 | 20.0 |
| Heneicosane         | 14.75 | 4.6     | ng    | 602023   | 6                     | 15.42 | 2619440 | 20.0 |
| Nonadecane          | 15.07 | 4.4     | ng    | 575111   | 6                     | 15.42 | 2619440 | 20.0 |
| Triacontane         | 15.87 | 3.4     | ng    | 445693   | 6                     | 15.42 | 2619440 | 20.0 |
| 2-methyloctacosane  | 16.36 | 2.1     | ng    | 277312   | 6                     | 15.42 | 2619440 | 20.0 |