

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF072519\  
 Data File : BF115765.D  
 Acq On : 25 Jul 2019 18:40  
 Operator : HP/JU  
 Sample : K3990-06  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3-B

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-BF071219.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         | 2.146       | 4             | 10          | 25           | rVB      | 541134         | 728973        | 21.04%          | 2.286%        |
| 2         | 5.493       | 574           | 579         | 600          | rBV      | 2207202        | 2155271       | 62.22%          | 6.758%        |
| 3         | 6.498       | 745           | 750         | 768          | rBV      | 2356604        | 2321230       | 67.01%          | 7.279%        |
| 4         | 6.640       | 770           | 774         | 777          | rBV      | 2727204        | 2338746       | 67.51%          | 7.334%        |
| 5         | 6.869       | 809           | 813         | 817          | rBV      | 998995         | 793048        | 22.89%          | 2.487%        |
| 6         | 7.028       | 836           | 840         | 843          | rBV      | 2114532        | 1849994       | 53.40%          | 5.801%        |
| 7         | 7.428       | 903           | 908         | 924          | rBV      | 1526520        | 1482146       | 42.78%          | 4.648%        |
| 8         | 8.151       | 1027          | 1031        | 1037         | rBV      | 1057170        | 974509        | 28.13%          | 3.056%        |
| 9         | 9.222       | 1209          | 1213        | 1229         | rBV      | 2789856        | 2915547       | 84.16%          | 9.142%        |
| 10        | 9.339       | 1229          | 1233        | 1245         | rVB      | 91248          | 111166        | 3.21%           | 0.349%        |
| 11        | 9.616       | 1276          | 1280        | 1296         | rBV      | 504154         | 482875        | 13.94%          | 1.514%        |
| 12        | 9.904       | 1325          | 1329        | 1350         | rBV      | 1385216        | 1271885       | 36.72%          | 3.988%        |
| 13        | 10.692      | 1459          | 1463        | 1480         | rBV      | 1944645        | 1949440       | 56.27%          | 6.113%        |
| 14        | 11.392      | 1578          | 1582        | 1590         | rBV      | 1342740        | 1368952       | 39.52%          | 4.293%        |
| 15        | 11.657      | 1620          | 1627        | 1645         | rBV6     | 62704          | 297879        | 8.60%           | 0.934%        |
| 16        | 11.916      | 1667          | 1671        | 1688         | rBV2     | 362529         | 404503        | 11.68%          | 1.268%        |
| 17        | 12.474      | 1758          | 1766        | 1786         | rBV3     | 185577         | 711121        | 20.53%          | 2.230%        |
| 18        | 12.627      | 1786          | 1792        | 1795         | rBV      | 94794          | 94211         | 2.72%           | 0.295%        |
| 19        | 12.698      | 1800          | 1804        | 1815         | rBV      | 142562         | 193248        | 5.58%           | 0.606%        |
| 20        | 12.974      | 1846          | 1851        | 1854         | rBV      | 3635287        | 3464209       | 100.00%         | 10.863%       |
| 21        | 13.198      | 1886          | 1889        | 1892         | rBV      | 76391          | 78140         | 2.26%           | 0.245%        |
| 22        | 13.239      | 1892          | 1896        | 1909         | rVB4     | 47088          | 131543        | 3.80%           | 0.412%        |
| 23        | 13.451      | 1928          | 1932        | 1938         | rVB4     | 25790          | 35810         | 1.03%           | 0.112%        |
| 24        | 13.545      | 1943          | 1948        | 1950         | rVB2     | 72484          | 67919         | 1.96%           | 0.213%        |
| 25        | 13.868      | 1997          | 2003        | 2005         | rBV2     | 98854          | 130822        | 3.78%           | 0.410%        |
| 26        | 13.910      | 2005          | 2010        | 2024         | rVV6     | 139571         | 545619        | 15.75%          | 1.711%        |
| 27        | 14.027      | 2026          | 2030        | 2040         | rVB      | 1400081        | 1297881       | 37.47%          | 4.070%        |
| 28        | 14.186      | 2053          | 2057        | 2062         | rBV      | 171143         | 143488        | 4.14%           | 0.450%        |
| 29        | 14.492      | 2102          | 2109        | 2112         | rBV      | 277425         | 265823        | 7.67%           | 0.834%        |
| 30        | 14.798      | 2154          | 2161        | 2167         | rBV      | 379226         | 407361        | 11.76%          | 1.277%        |
| 31        | 14.874      | 2170          | 2174        | 2179         | rVB      | 40332          | 45367         | 1.31%           | 0.142%        |
| 32        | 15.133      | 2214          | 2218        | 2225         | rBV      | 417924         | 440834        | 12.73%          | 1.382%        |
| 33        | 15.498      | 2274          | 2280        | 2294         | rBV2     | 839865         | 1611792       | 46.53%          | 5.054%        |
| 34        | 15.951      | 2351          | 2357        | 2371         | rVB      | 261239         | 412796        | 11.92%          | 1.294%        |

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Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-B

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-BF071219.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |     |        |        |       |        |
|----|--------|------|------|------|-----|--------|--------|-------|--------|
| 35 | 16.457 | 2437 | 2443 | 2454 | rBV | 145673 | 267891 | 7.73% | 0.840% |
| 36 | 17.045 | 2538 | 2543 | 2550 | rVB | 47833  | 98904  | 2.86% | 0.310% |

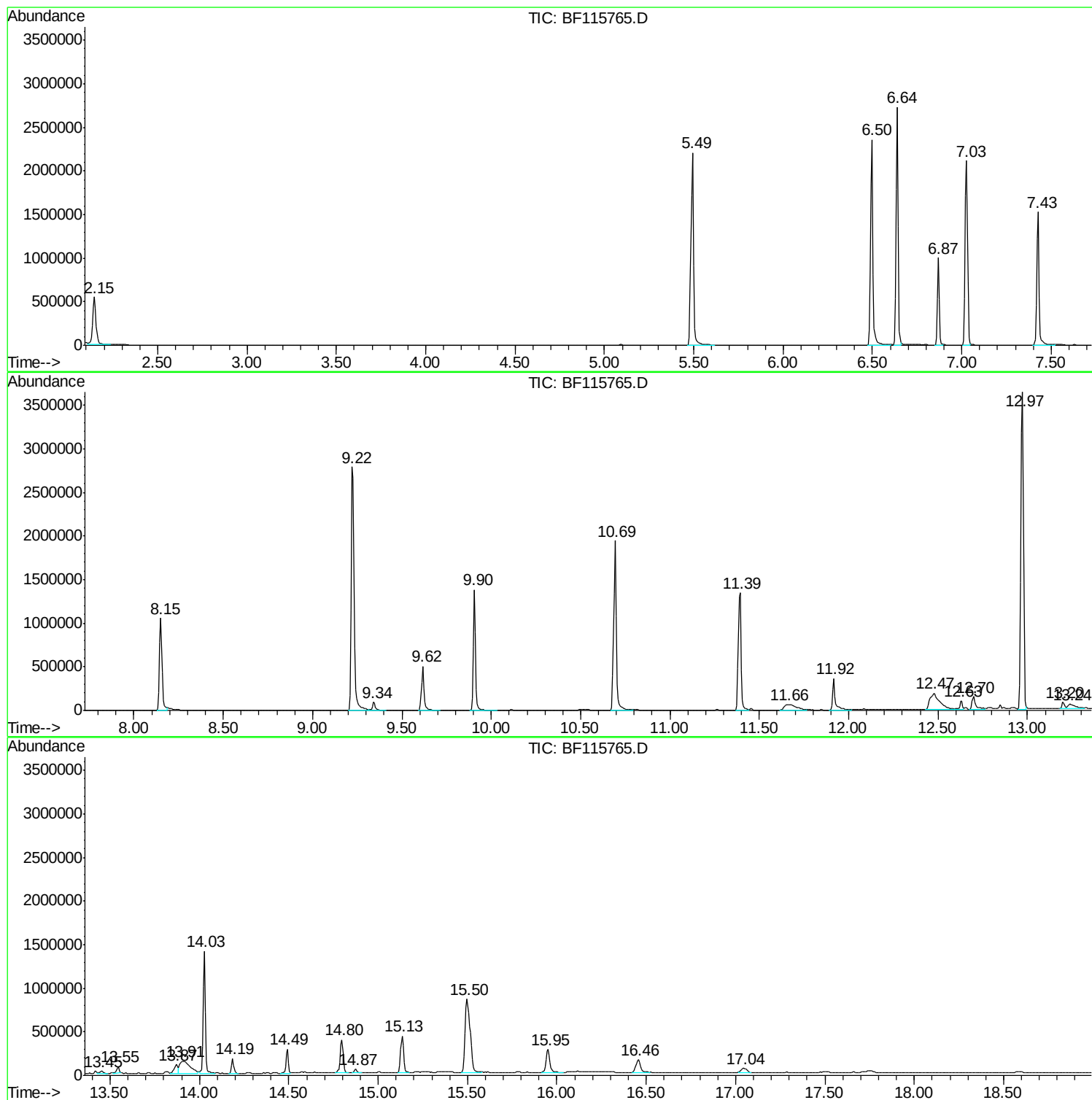
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BNA\_F  
ClientSampled :  
TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.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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Sample : K3990-06  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-B

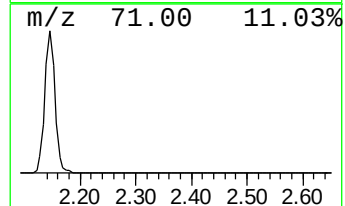
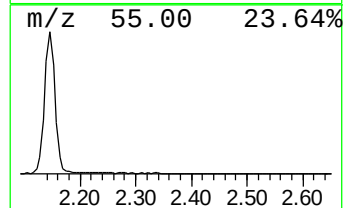
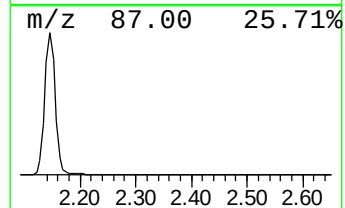
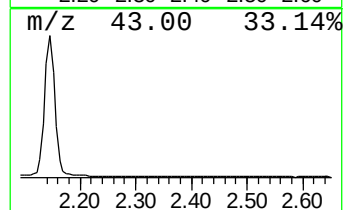
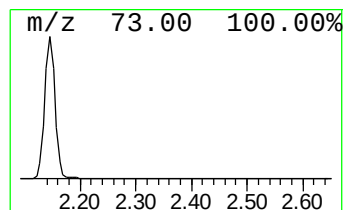
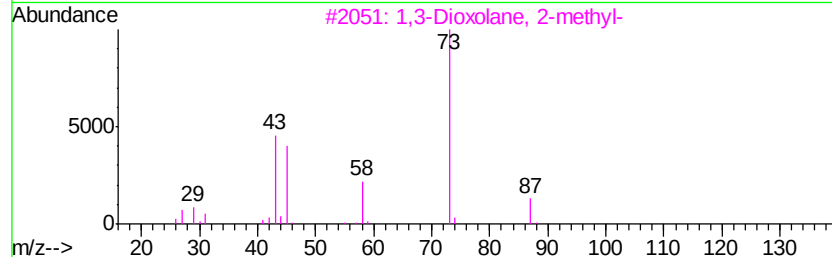
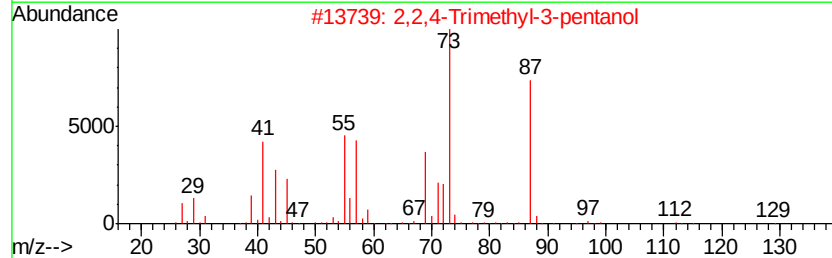
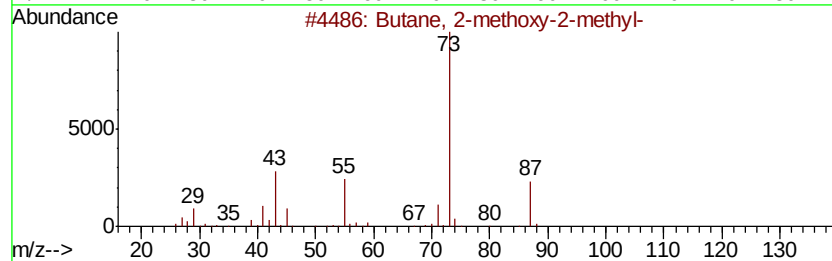
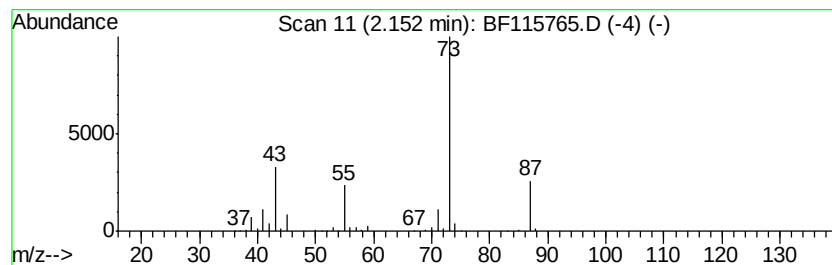
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 2.15 | 18.38 ng | 728973 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 2    |    | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 39   |
| 3    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 25   |
| 4    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 23   |
| 5    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 17   |



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ClientSampleId :  
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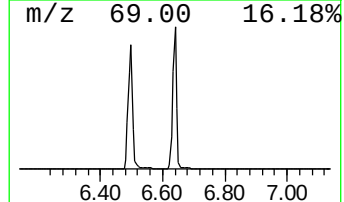
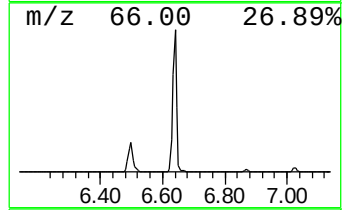
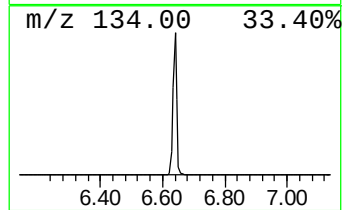
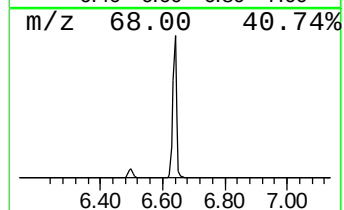
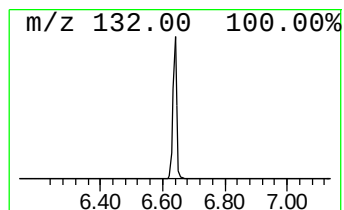
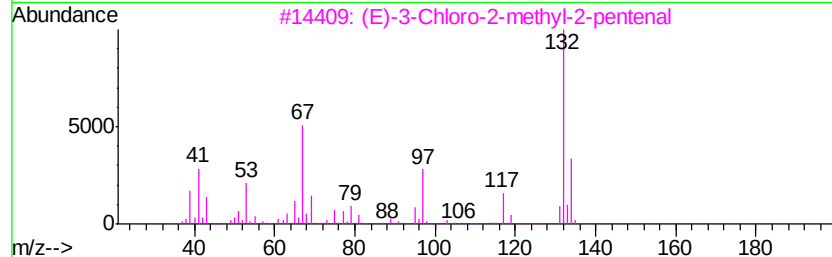
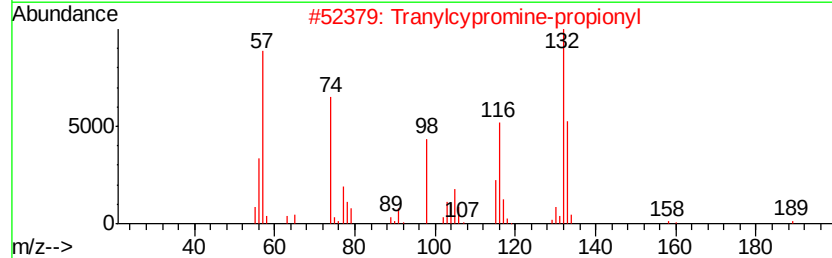
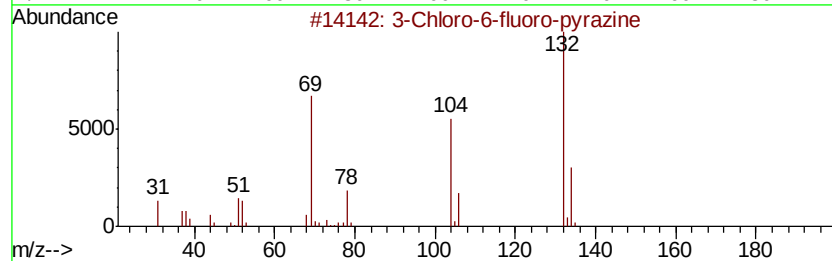
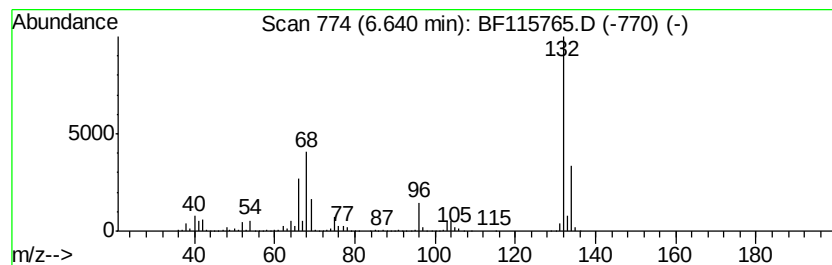
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown6.64 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.64 | 58.98 ng | 2338750 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 3    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 12   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | Xenon                               | 132 | Xe        | 007440-63-3  | 9    |



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Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
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TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
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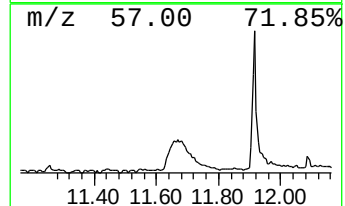
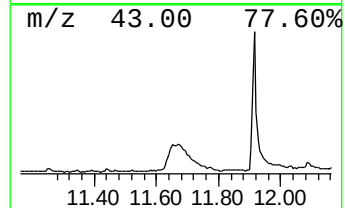
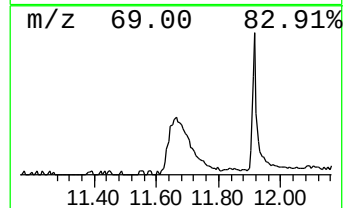
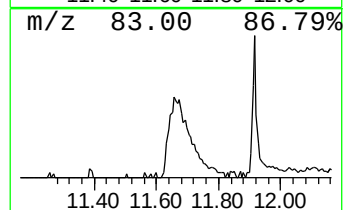
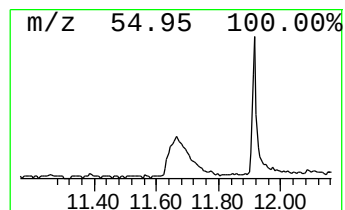
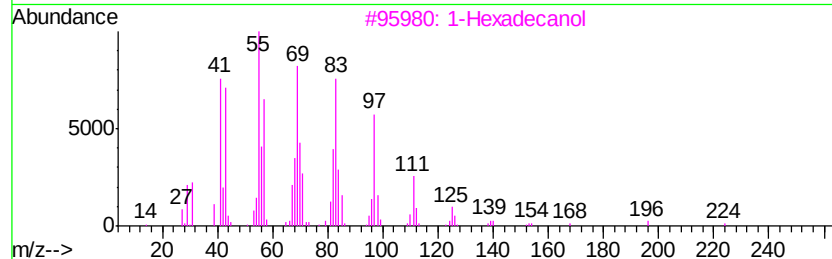
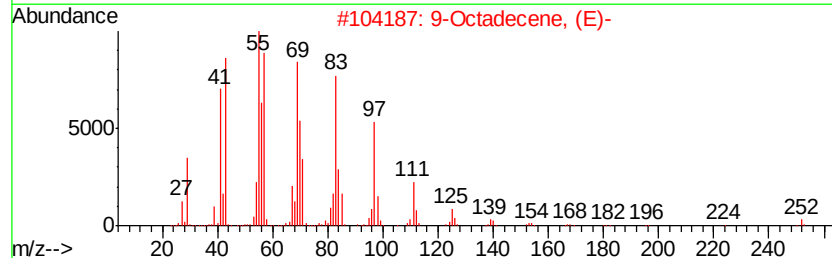
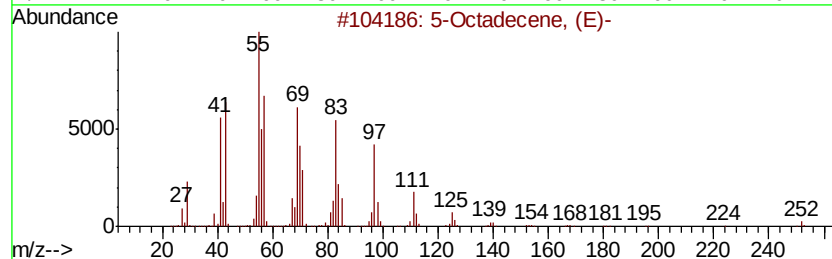
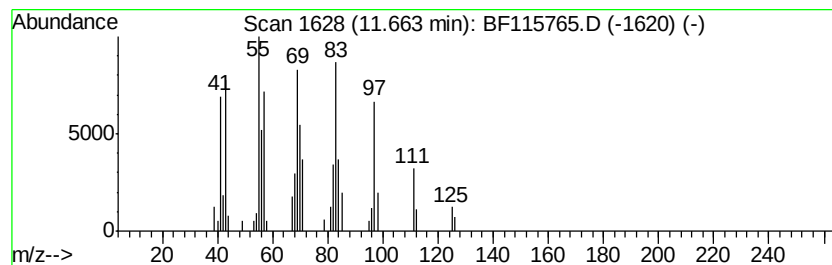
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 5-Octadecene, (E)- Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.66 | 4.35 ng | 297879 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------|-----|---------|-------------|------|
| 1    | 5  | 5-Octadecene, (E)- | 252 | C18H36  | 007206-21-5 | 91   |
| 2    |    | 9-Octadecene, (E)- | 252 | C18H36  | 007206-25-9 | 90   |
| 3    |    | 1-Hexadecanol      | 242 | C16H34O | 036653-82-4 | 81   |
| 4    |    | 11-Tricosene       | 322 | C23H46  | 052078-56-5 | 80   |
| 5    |    | Cetene             | 224 | C16H32  | 000629-73-2 | 74   |



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Sample : K3990-06  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

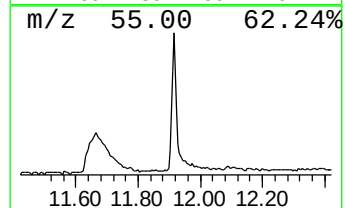
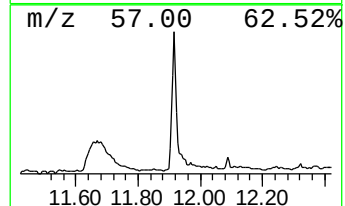
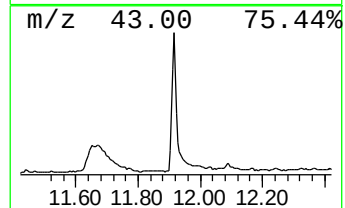
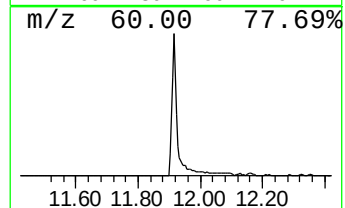
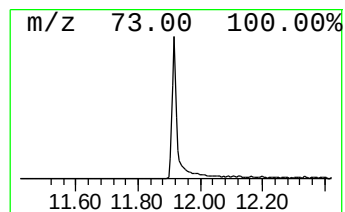
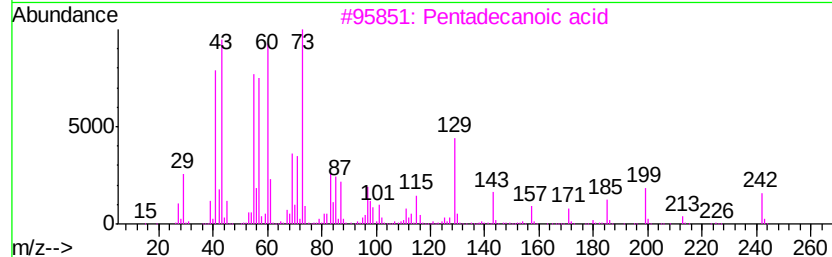
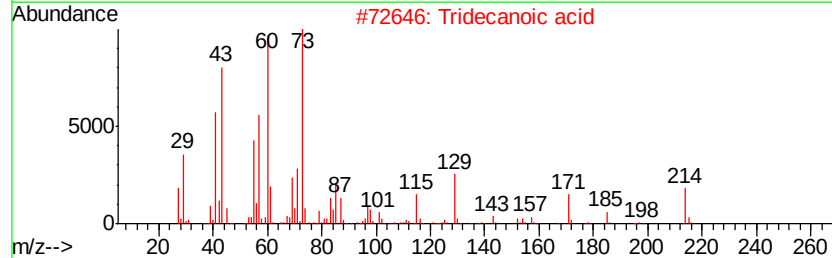
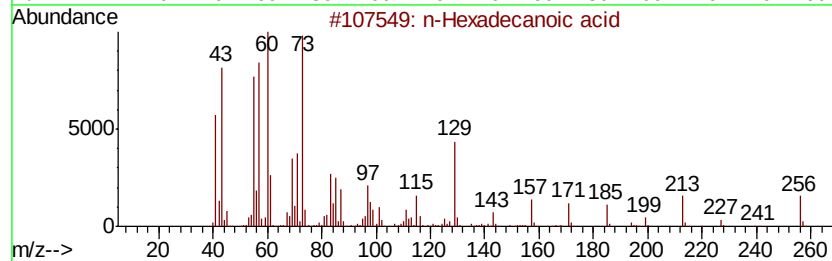
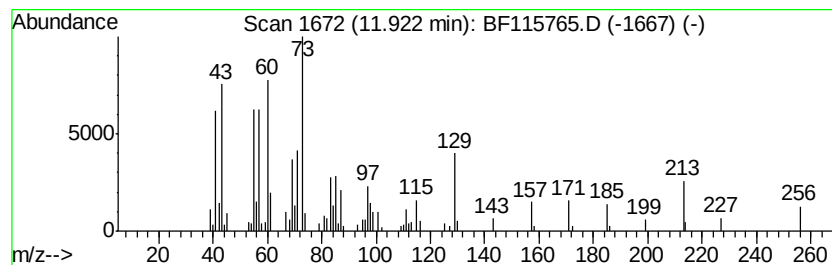
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.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 6

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 11.92     | 5.91 ng             | 404503 | Phenanthrene-d10 |             | 11.39 |
| 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 | 91    |
| 3         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 87    |
| 4         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 76    |
| 5         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 72    |



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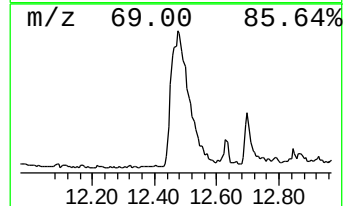
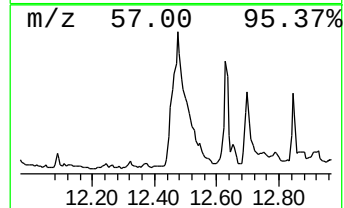
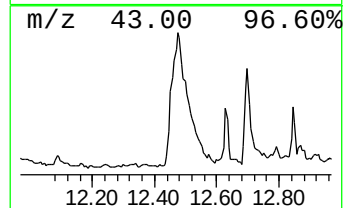
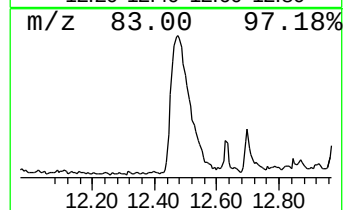
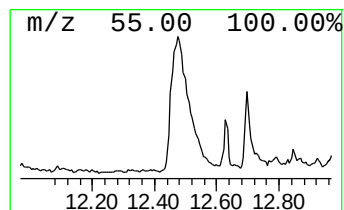
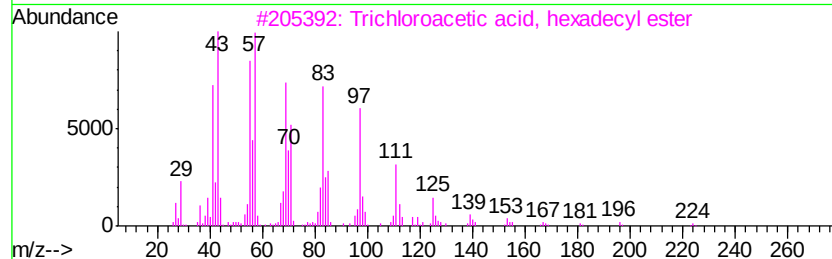
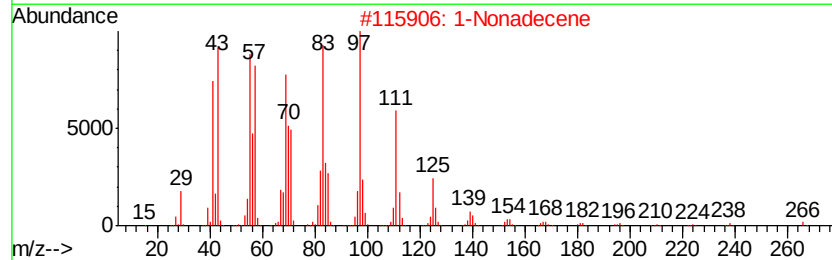
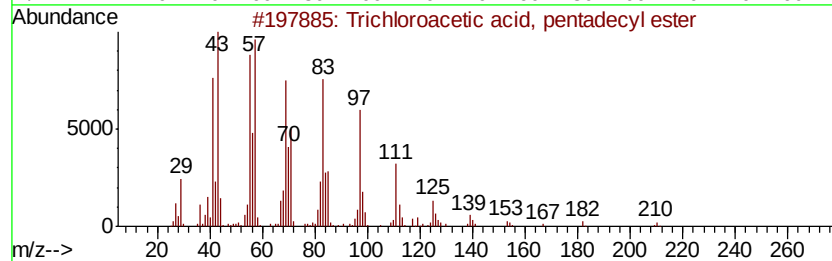
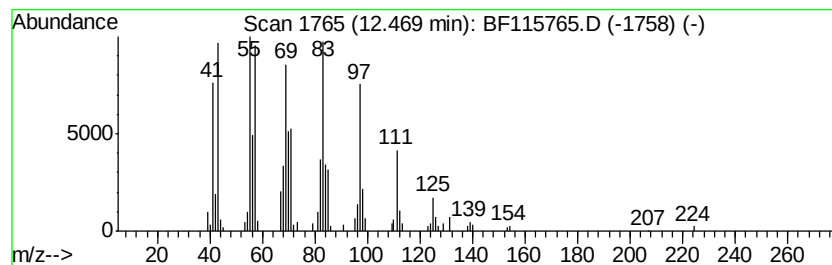
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ClientSampleId :  
TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 Trichloroacetic acid, penta... Concentration Rank 4

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.        |             |      |
|---------|----------|-------------------------------------|------------------|-------------|-------------|------|
| 12.47   | 10.39 ng | 711121                              | Phenanthrene-d10 | 11.39       |             |      |
| Hit# of | 5        | Tentative ID                        | MW               | MolForm     | CAS#        | Qual |
| 1       |          | Trichloroacetic acid, pentadecyl... | 372              | C17H31Cl3O2 | 074339-53-0 | 95   |
| 2       |          | 1-Nonadecene                        | 266              | C19H38      | 018435-45-5 | 91   |
| 3       |          | Trichloroacetic acid, hexadecyl ... | 386              | C18H33Cl3O2 | 074339-54-1 | 91   |
| 4       |          | Trifluoroacetox y hexadecane        | 338              | C18H33F3O2  | 006222-03-3 | 91   |
| 5       |          | n-Tetracosanol-1                    | 354              | C24H50O     | 000506-51-4 | 91   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072519\  
Data File : BF115765.D  
Acq On : 25 Jul 2019 18:40  
Operator : HP/JU  
Sample : K3990-06  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

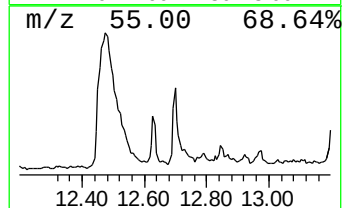
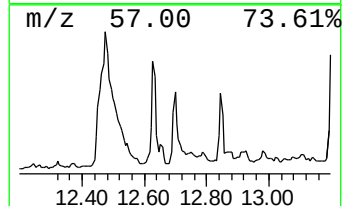
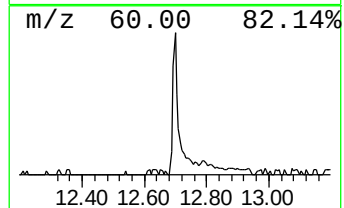
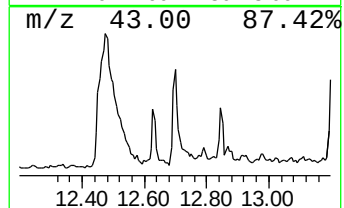
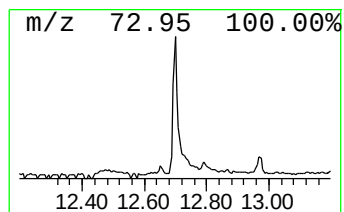
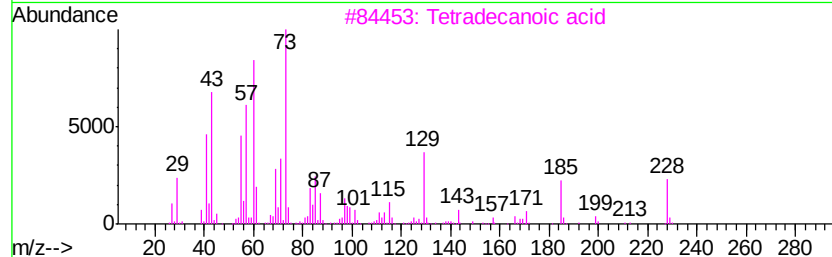
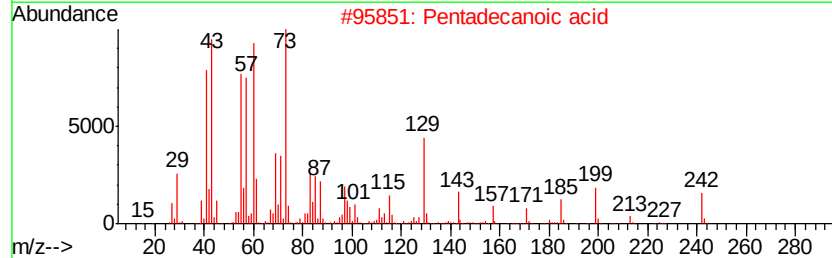
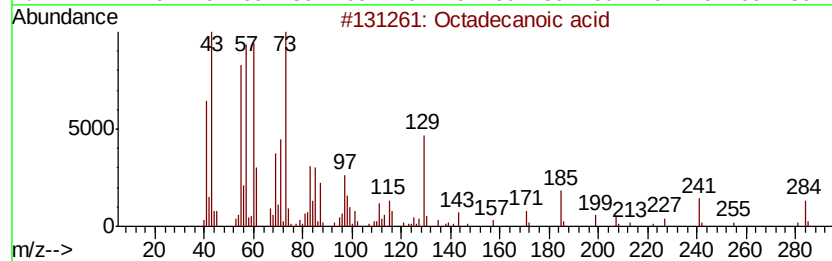
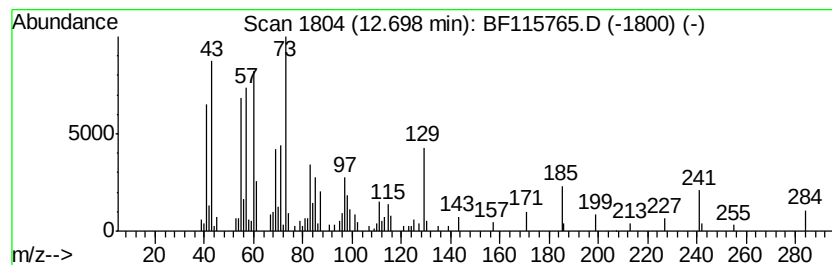
Instrument :  
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ClientSampleId :  
TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.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 13

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 12.70     | 2.82 ng             | 193248 | Phenanthrene-d10 |             | 11.39 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | Octadecanoic acid   | 284    | C18H36O2         | 000057-11-4 | 99    |
| 2         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 90    |
| 3         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 83    |
| 4         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 80    |
| 5         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 49    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072519\  
Data File : BF115765.D  
Acq On : 25 Jul 2019 18:40  
Operator : HP/JU  
Sample : K3990-06  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

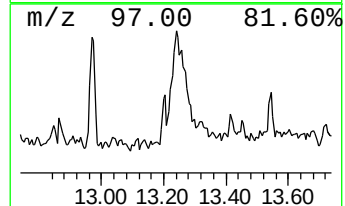
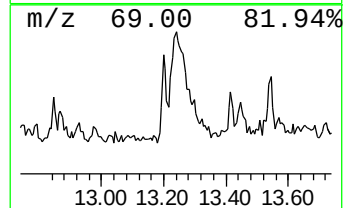
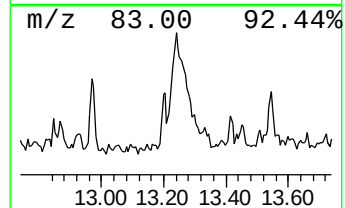
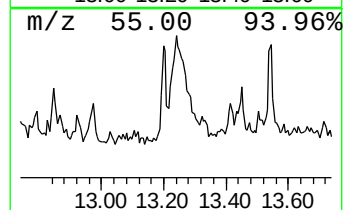
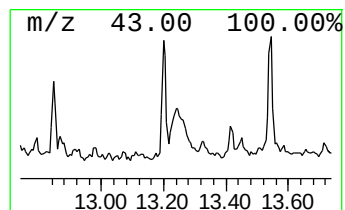
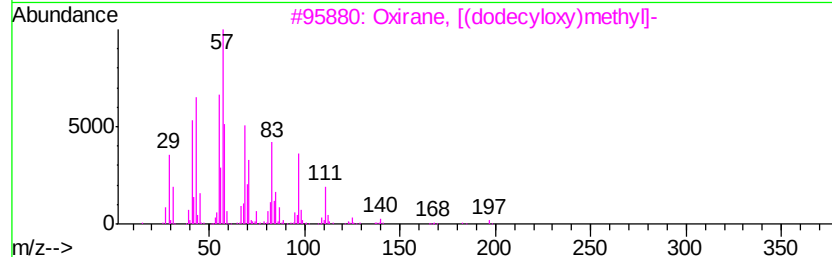
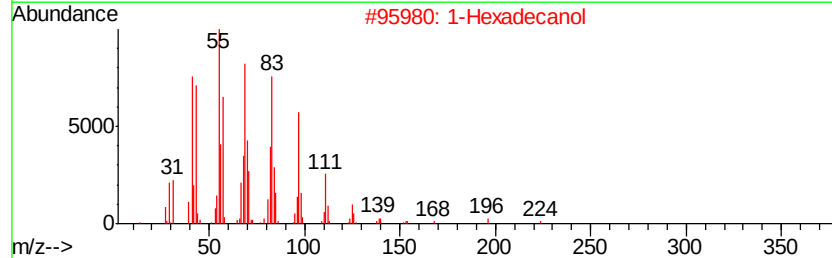
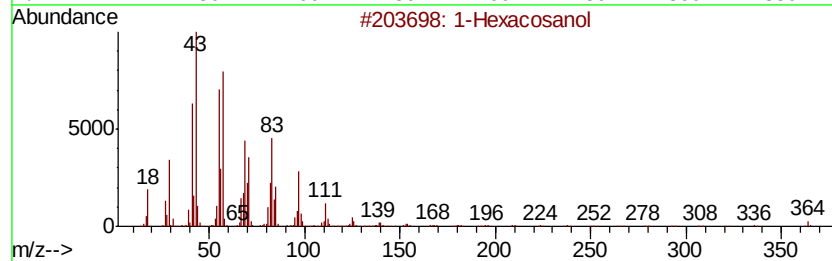
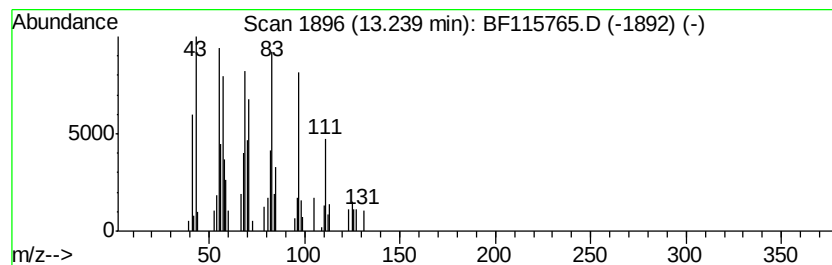
Instrument :  
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ClientSampleId :  
TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.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 1-Hexacosanol Concentration Rank 15

| R.T.    | EstConc                         | Area         | Relative to ISTD | R.T.      |
|---------|---------------------------------|--------------|------------------|-----------|
| 13.24   | 2.03 ng                         | 131543       | Chrysene-d12     | 14.03     |
| Hit# of | 5                               | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 1-Hexacosanol                   | 382 C26H54O  | 000506-52-5      | 72        |
| 2       | 1-Hexadecanol                   | 242 C16H34O  | 036653-82-4      | 68        |
| 3       | Oxirane, [(dodecyloxy)methyl]-  | 242 C15H30O2 | 002461-18-9      | 64        |
| 4       | 1-Dodecanol, 3,7,11-trimethyl-  | 228 C15H32O  | 006750-34-1      | 49        |
| 5       | Cyclopentane, (2-methylpropyl)- | 126 C9H18    | 003788-32-7      | 46        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072519\  
Data File : BF115765.D  
Acq On : 25 Jul 2019 18:40  
Operator : HP/JU  
Sample : K3990-06  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

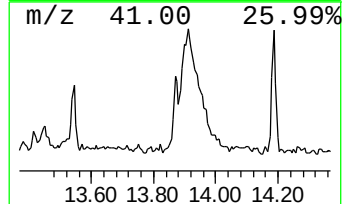
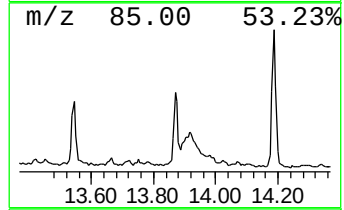
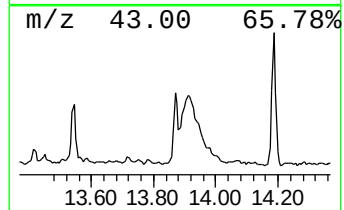
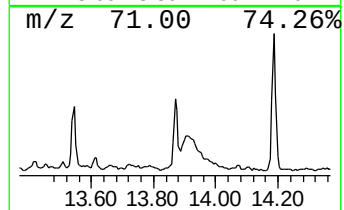
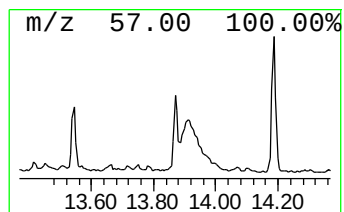
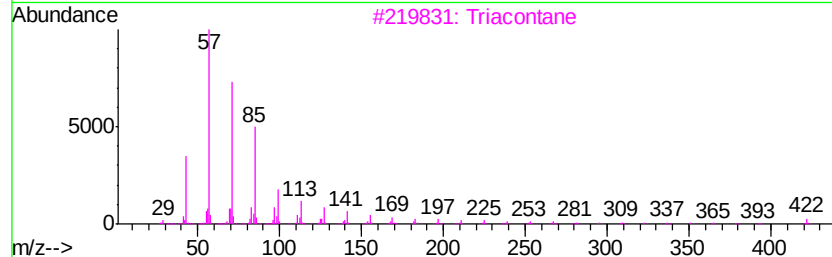
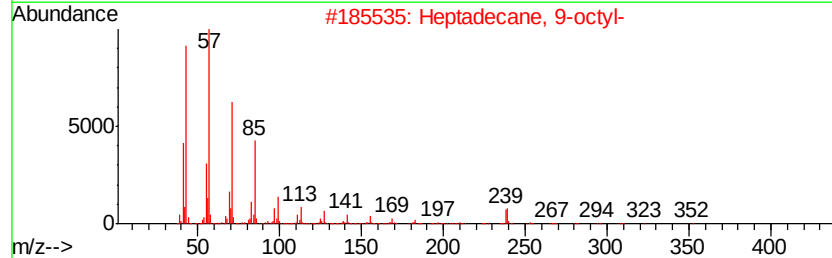
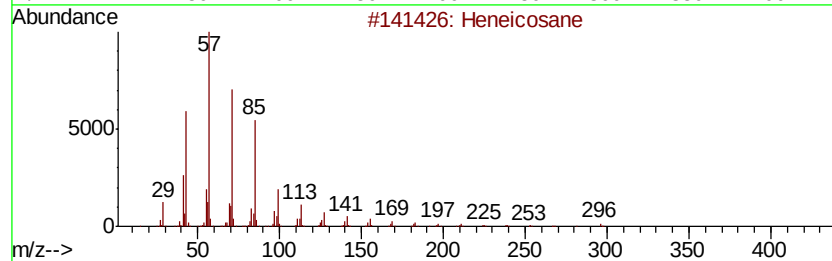
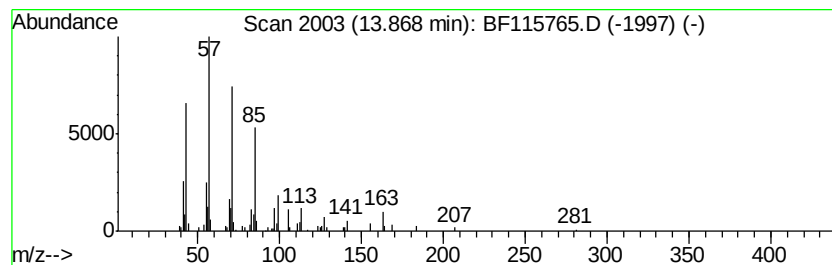
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Heneicosane Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.87 | 2.02 ng | 130822 | Chrysene-d12     | 14.03 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |
| 2    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 3    |    | Triaccontane          | 422 | C30H62  | 000638-68-6 | 91   |
| 4    |    | Hexacosane            | 366 | C26H54  | 000630-01-3 | 90   |
| 5    |    | Tetratetracontane     | 619 | C44H90  | 007098-22-8 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072519\  
Data File : BF115765.D  
Acq On : 25 Jul 2019 18:40  
Operator : HP/JU  
Sample : K3990-06  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

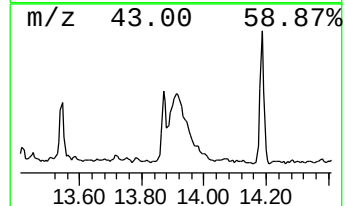
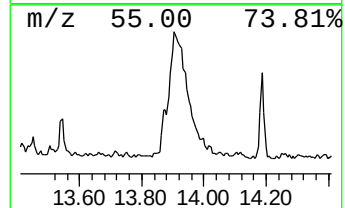
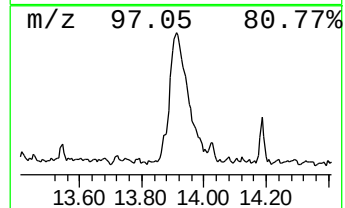
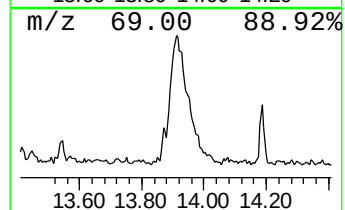
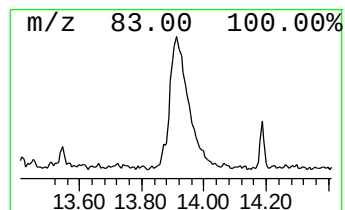
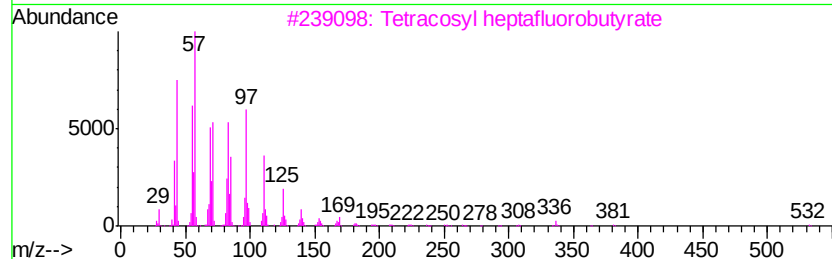
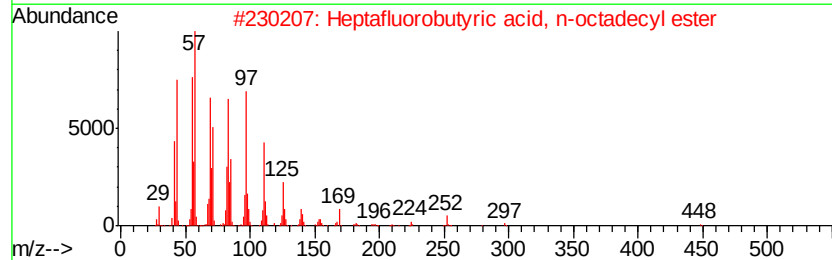
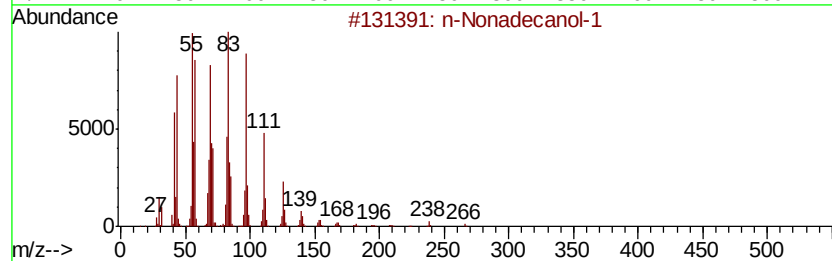
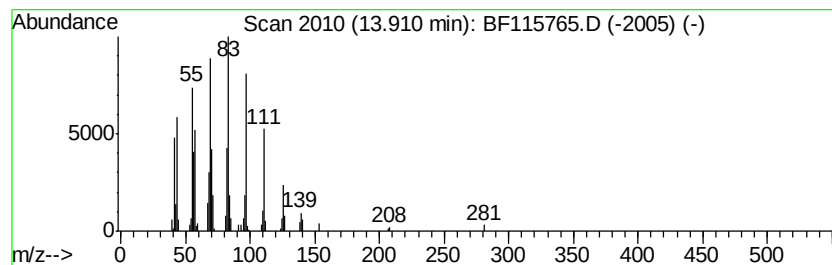
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 n-Nonadecanol-1 Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.91 | 8.41 ng | 545619 | Chrysene-d12     | 14.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | n-Nonadecanol-1                     | 284 | C19H40O    | 001454-84-8  | 83   |
| 2    |    | Heptafluorobutyric acid, n-octad... | 466 | C22H37F7O2 | 000400-57-7  | 58   |
| 3    |    | Tetracosyl heptafluorobutyrate      | 550 | C28H49F7O2 | 1000351-83-7 | 49   |
| 4    |    | Heneicosyl heptafluorobutyrate      | 508 | C25H43F7O2 | 1000351-83-8 | 49   |
| 5    |    | Docosyl pentafluoropropionate       | 472 | C25H45F5O2 | 1000351-80-9 | 49   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072519\  
Data File : BF115765.D  
Acq On : 25 Jul 2019 18:40  
Operator : HP/JU  
Sample : K3990-06  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

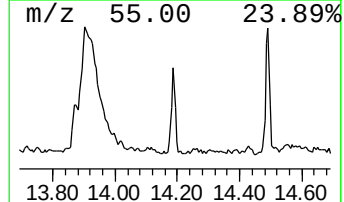
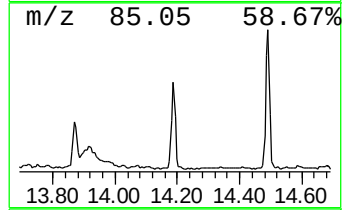
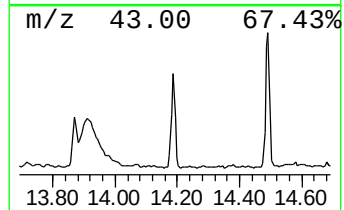
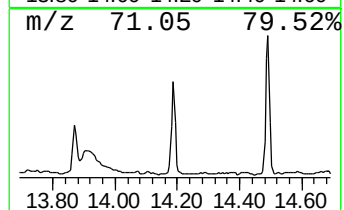
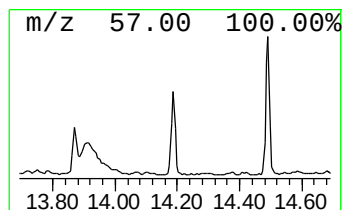
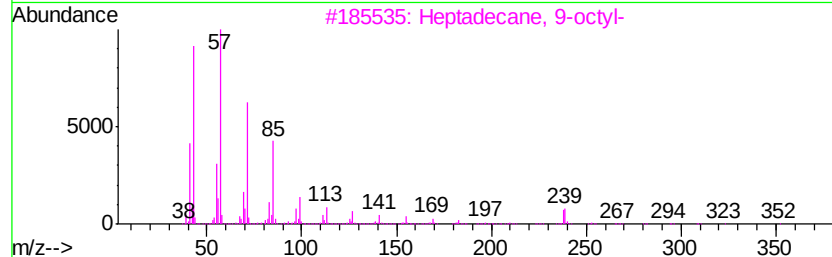
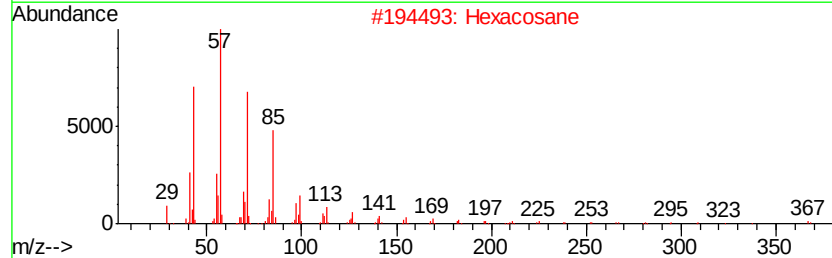
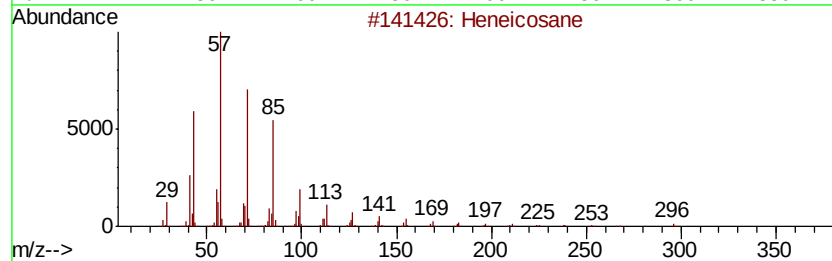
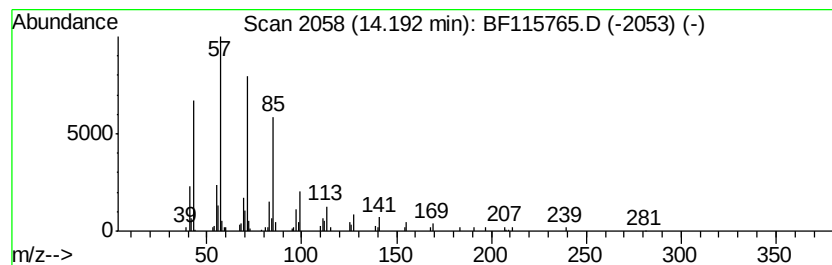
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Heptadecane, 9-octyl- Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.19 | 2.21 ng | 143488 | Chrysene-d12     | 14.03 |

| Hit# | of | Tentative ID          | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------|-----|----------|-------------|------|
| 1    | 5  | Heneicosane           | 296 | C21H44   | 000629-94-7 | 91   |
| 2    |    | Hexacosane            | 366 | C26H54   | 000630-01-3 | 91   |
| 3    |    | Heptadecane, 9-octyl- | 352 | C25H52   | 007225-64-1 | 91   |
| 4    |    | 2-Bromotetradecane    | 276 | C14H29Br | 074036-95-6 | 90   |
| 5    |    | Hexadecane            | 226 | C16H34   | 000544-76-3 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072519\  
Data File : BF115765.D  
Acq On : 25 Jul 2019 18:40  
Operator : HP/JU  
Sample : K3990-06  
Misc :  
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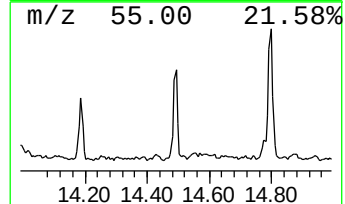
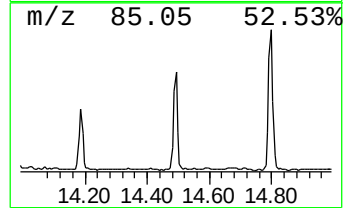
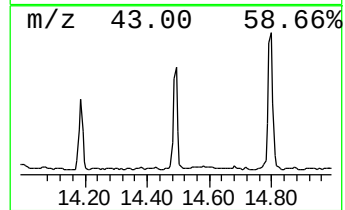
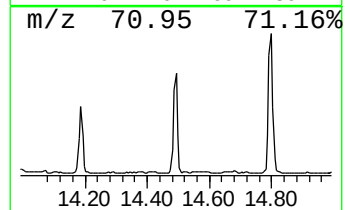
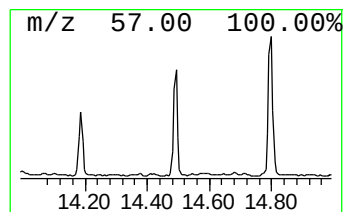
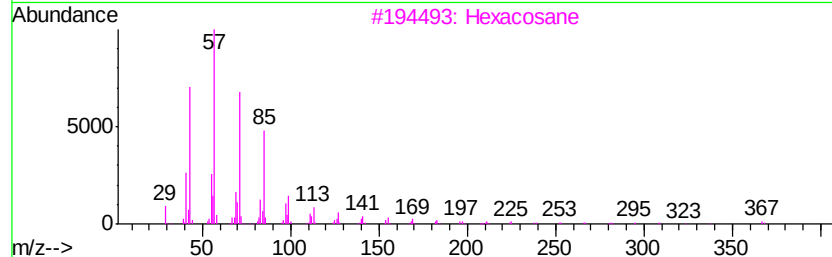
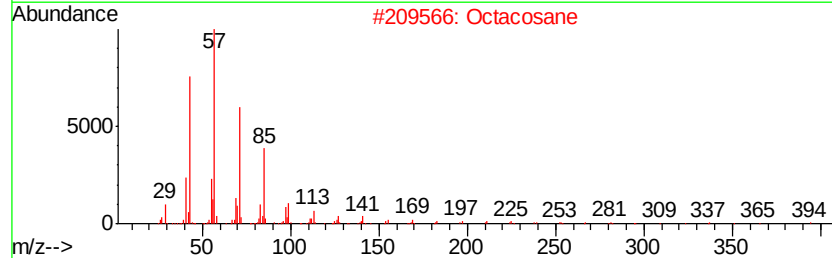
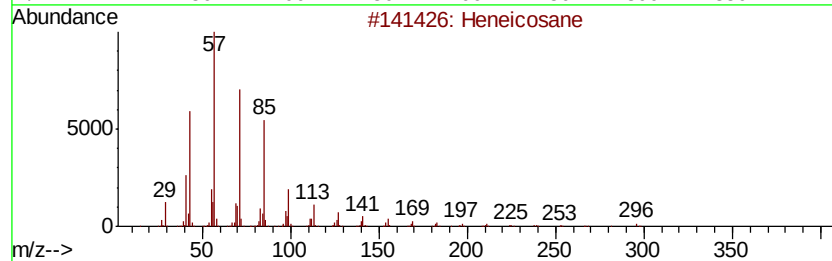
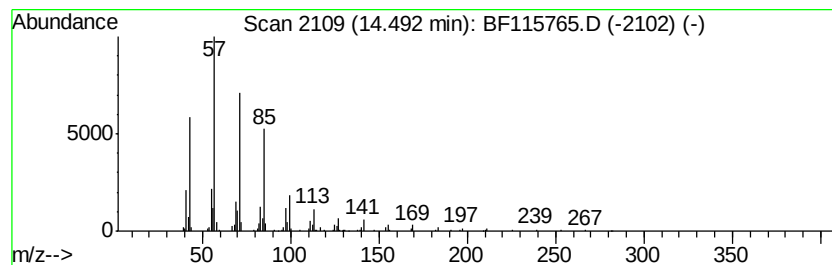
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.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 12 Heneicosane, 11-(1-ethylpro... Concentration Rank 11

| R.T.      | EstConc                          | Area   | Relative to ISTD | R.T.         |      |
|-----------|----------------------------------|--------|------------------|--------------|------|
| 14.49     | 4.10 ng                          | 265823 | Chrysene-d12     | 14.03        |      |
| Hit# of 5 | Tentative ID                     | MW     | MolForm          | CAS#         | Qual |
| 1         | Heneicosane                      | 296    | C21H44           | 000629-94-7  | 91   |
| 2         | Octacosane                       | 394    | C28H58           | 000630-02-4  | 91   |
| 3         | Hexacosane                       | 366    | C26H54           | 000630-01-3  | 91   |
| 4         | 2-methyloctacosane               | 408    | C29H60           | 1000376-72-8 | 91   |
| 5         | Heneicosane, 11-(1-ethylpropyl)- | 366    | C26H54           | 055282-11-6  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072519\  
Data File : BF115765.D  
Acq On : 25 Jul 2019 18:40  
Operator : HP/JU  
Sample : K3990-06  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

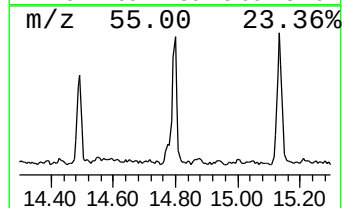
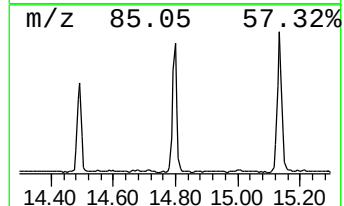
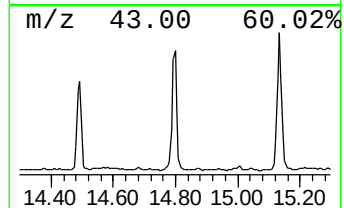
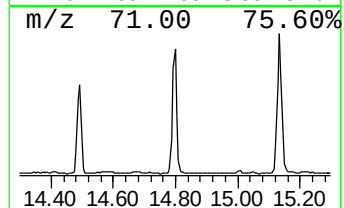
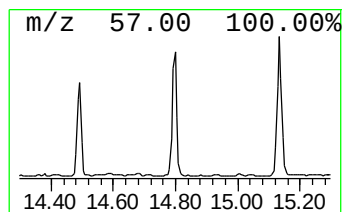
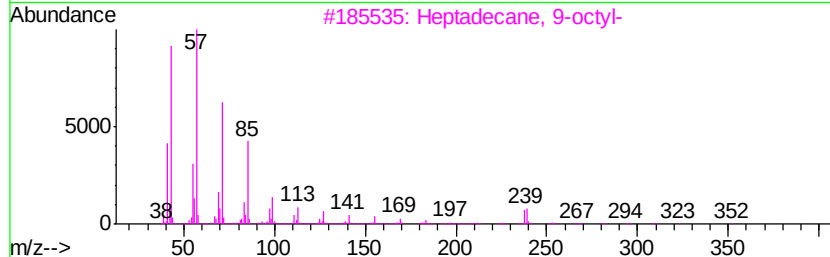
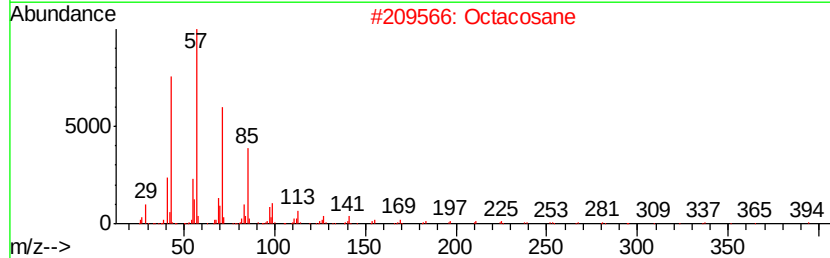
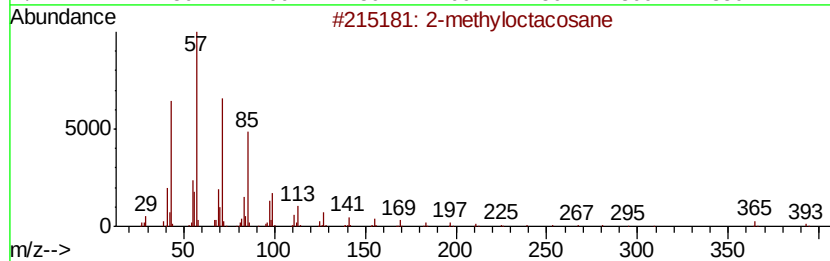
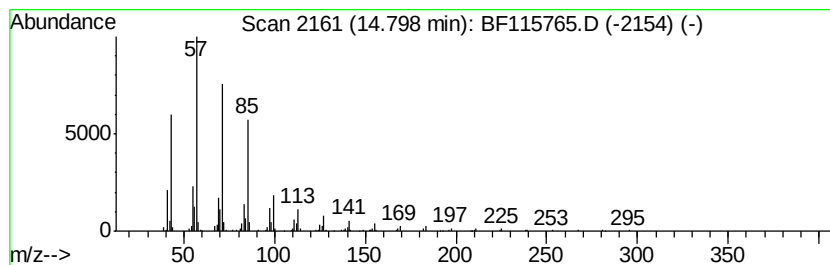
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 2-methyloctacosane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.80 | 5.05 ng | 407361 | Perylene-d12     | 15.50 |

| Hit# | of | 5 | Tentative ID          | MW  | MolForm | CAS#         | Qual |
|------|----|---|-----------------------|-----|---------|--------------|------|
| 1    |    |   | 2-methyloctacosane    | 408 | C29H60  | 1000376-72-8 | 91   |
| 2    |    |   | Octacosane            | 394 | C28H58  | 000630-02-4  | 91   |
| 3    |    |   | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1  | 91   |
| 4    |    |   | Hexacosane            | 366 | C26H54  | 000630-01-3  | 91   |
| 5    |    |   | Heneicosane           | 296 | C21H44  | 000629-94-7  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF072519\  
Data File : BF115765.D  
Acq On : 25 Jul 2019 18:40  
Operator : HP/JU  
Sample : K3990-06  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071219.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 |
| Butane, 2-methoxy... | 2.15  | 18.4    | ng    | 728973   | 1                     | 6.87  | 793048  | 20.0 |
| unknown6.64          | 6.64  | 59.0    | ng    | 2338750  | 1                     | 6.87  | 793048  | 20.0 |
| 5-Octadecene, (E)-   | 11.66 | 4.3     | ng    | 297879   | 4                     | 11.39 | 1368950 | 20.0 |
| n-Hexadecanoic acid  | 11.92 | 5.9     | ng    | 404503   | 4                     | 11.39 | 1368950 | 20.0 |
| Trichloroacetic a... | 12.47 | 10.4    | ng    | 711121   | 4                     | 11.39 | 1368950 | 20.0 |
| Octadecanoic acid    | 12.70 | 2.8     | ng    | 193248   | 4                     | 11.39 | 1368950 | 20.0 |
| 1-Hexacosanol        | 13.24 | 2.0     | ng    | 131543   | 5                     | 14.03 | 1297880 | 20.0 |
| Heneicosane          | 13.87 | 2.0     | ng    | 130822   | 5                     | 14.03 | 1297880 | 20.0 |
| n-Nonadecanol-1      | 13.91 | 8.4     | ng    | 545619   | 5                     | 14.03 | 1297880 | 20.0 |
| Heptadecane, 9-oc... | 14.19 | 2.2     | ng    | 143488   | 5                     | 14.03 | 1297880 | 20.0 |
| Heneicosane, 11-(... | 14.49 | 4.1     | ng    | 265823   | 5                     | 14.03 | 1297880 | 20.0 |
| 2-methyloctacosane   | 14.80 | 5.0     | ng    | 407361   | 6                     | 15.50 | 1611790 | 20.0 |