

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040519\  
 Data File : BF113622.D  
 Acq On : 5 Apr 2019 18:34  
 Operator : JU/SJ  
 Sample : K2221-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S10B(2-10)COMP

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-BF040319.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         | 5.298       | 542           | 546         | 564          | rBV      | 2009573        | 2536784       | 81.91%          | 6.449%        |
| 2         | 6.340       | 718           | 723         | 739          | rBV      | 2487011        | 2682403       | 86.61%          | 6.819%        |
| 3         | 6.457       | 739           | 743         | 750          | rVV      | 2905242        | 2644671       | 85.40%          | 6.723%        |
| 4         | 6.681       | 778           | 781         | 792          | rVB      | 725946         | 602512        | 19.46%          | 1.532%        |
| 5         | 6.840       | 804           | 808         | 821          | rVB      | 2308576        | 2042671       | 65.96%          | 5.193%        |
| 6         | 7.245       | 873           | 877         | 890          | rBV      | 1640821        | 1705714       | 55.08%          | 4.336%        |
| 7         | 7.963       | 995           | 999         | 1015         | rBV      | 861416         | 768745        | 24.82%          | 1.954%        |
| 8         | 9.039       | 1178          | 1182        | 1185         | rBV      | 3376027        | 2971714       | 95.96%          | 7.555%        |
| 9         | 9.434       | 1245          | 1249        | 1258         | rBV      | 342993         | 292297        | 9.44%           | 0.743%        |
| 10        | 9.710       | 1293          | 1296        | 1305         | rBV      | 991633         | 880560        | 28.43%          | 2.239%        |
| 11        | 10.504      | 1427          | 1431        | 1448         | rVB      | 1711722        | 1786045       | 57.67%          | 4.541%        |
| 12        | 11.192      | 1544          | 1548        | 1556         | rBV      | 1075103        | 960131        | 31.00%          | 2.441%        |
| 13        | 11.727      | 1634          | 1639        | 1650         | rVB      | 627161         | 945508        | 30.53%          | 2.404%        |
| 14        | 12.433      | 1751          | 1759        | 1763         | rBV3     | 70961          | 207575        | 6.70%           | 0.528%        |
| 15        | 12.510      | 1763          | 1772        | 1784         | rVV      | 1141584        | 1987119       | 64.16%          | 5.052%        |
| 16        | 12.598      | 1784          | 1787        | 1790         | rVB2     | 98997          | 91537         | 2.96%           | 0.233%        |
| 17        | 12.674      | 1798          | 1800        | 1808         | rVB4     | 30938          | 37552         | 1.21%           | 0.095%        |
| 18        | 12.774      | 1812          | 1817        | 1820         | rVV      | 3330801        | 3096946       | 100.00%         | 7.873%        |
| 19        | 12.798      | 1820          | 1821        | 1828         | rVB      | 68773          | 42626         | 1.38%           | 0.108%        |
| 20        | 13.004      | 1853          | 1856        | 1864         | rVB      | 31459          | 36507         | 1.18%           | 0.093%        |
| 21        | 13.298      | 1903          | 1906        | 1909         | rBV      | 65844          | 59103         | 1.91%           | 0.150%        |
| 22        | 13.345      | 1909          | 1914        | 1916         | rVV2     | 59102          | 74513         | 2.41%           | 0.189%        |
| 23        | 13.674      | 1966          | 1970        | 1971         | rBV      | 187847         | 219056        | 7.07%           | 0.557%        |
| 24        | 13.821      | 1991          | 1995        | 1999         | rBV      | 857321         | 791215        | 25.55%          | 2.011%        |
| 25        | 13.986      | 2019          | 2023        | 2028         | rVB      | 671121         | 634855        | 20.50%          | 1.614%        |
| 26        | 14.292      | 2070          | 2075        | 2079         | rVB      | 1373762        | 1355400       | 43.77%          | 3.446%        |
| 27        | 14.586      | 2119          | 2125        | 2130         | rVB      | 1973793        | 2084140       | 67.30%          | 5.298%        |
| 28        | 14.774      | 2154          | 2157        | 2159         | rVB      | 35369          | 34387         | 1.11%           | 0.087%        |
| 29        | 14.892      | 2172          | 2177        | 2185         | rVB      | 1918249        | 2220031       | 71.68%          | 5.644%        |
| 30        | 15.104      | 2210          | 2213        | 2218         | rBV2     | 55459          | 63275         | 2.04%           | 0.161%        |
| 31        | 15.239      | 2229          | 2236        | 2244         | rBV2     | 1693584        | 2710954       | 87.54%          | 6.892%        |
| 32        | 15.474      | 2273          | 2276        | 2280         | rVB      | 51523          | 64092         | 2.07%           | 0.163%        |
| 33        | 15.627      | 2296          | 2302        | 2314         | rVB      | 939457         | 1523672       | 49.20%          | 3.873%        |
| 34        | 16.080      | 2373          | 2379        | 2391         | rVB      | 503607         | 903921        | 29.19%          | 2.298%        |

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Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S10B(2-10)COMP

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-BF040319.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |     |        |        |       |        |
|----|--------|------|------|------|-----|--------|--------|-------|--------|
| 35 | 16.610 | 2464 | 2469 | 2477 | rVB | 144681 | 277592 | 8.96% | 0.706% |
|----|--------|------|------|------|-----|--------|--------|-------|--------|

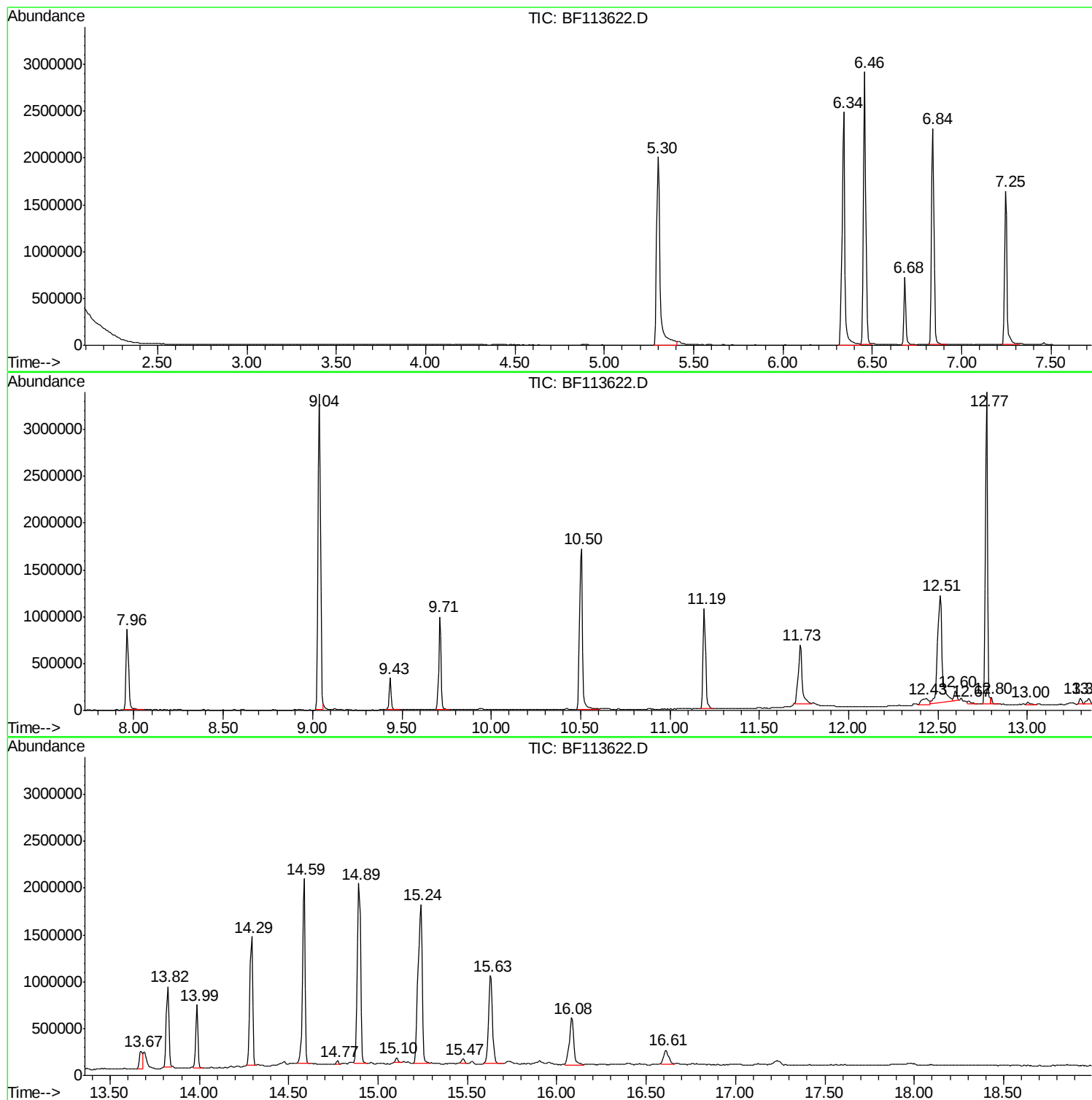
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BNA\_F  
ClientSampled :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

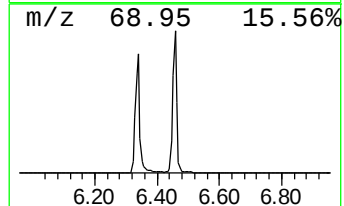
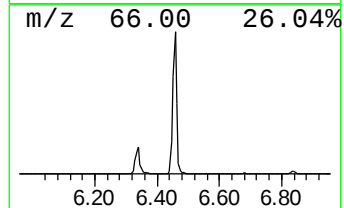
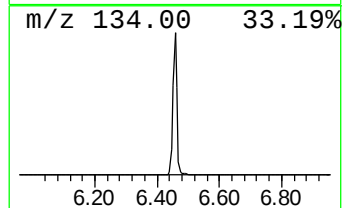
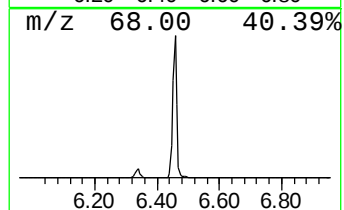
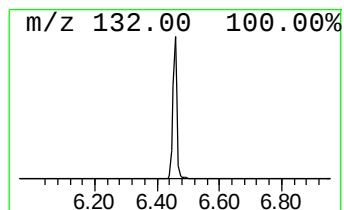
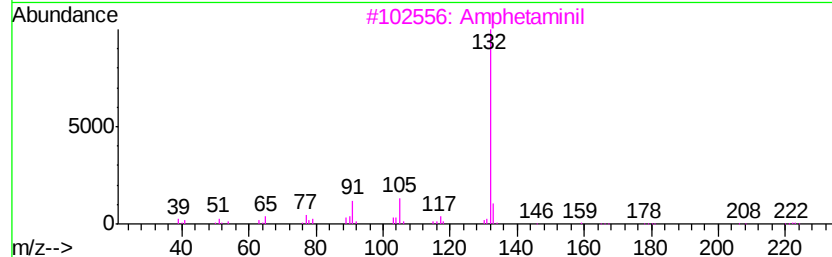
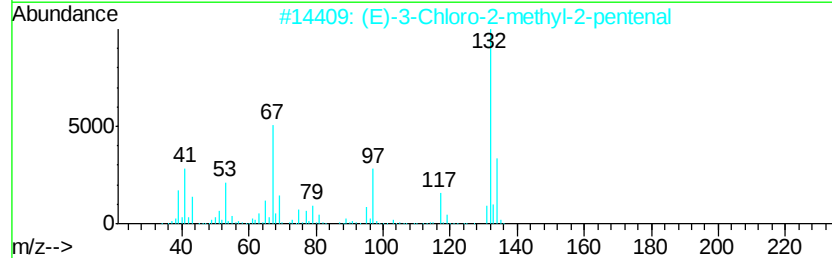
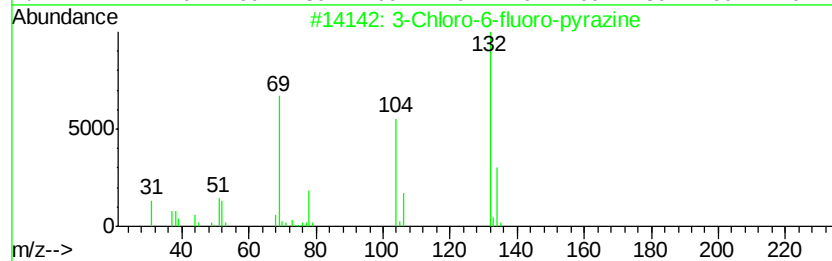
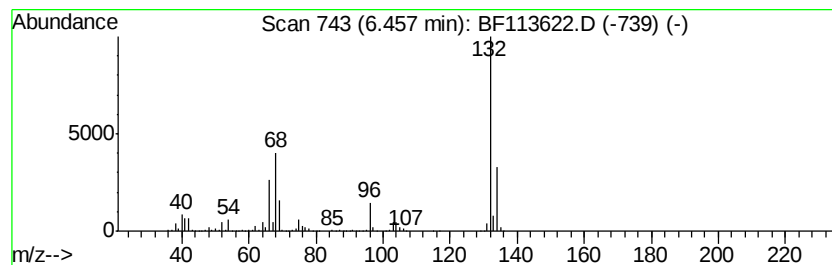
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.46 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.46 | 87.79 ng | 2644670 | 1,4-Dichlorobenzene-d4 | 6.68 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 3    |    | Amphetaminil                        | 250 | C17H18N2  | 017590-01-1  | 12   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | 4-Chloro-2-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-00-5  | 9    |



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S10B(2-10)COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

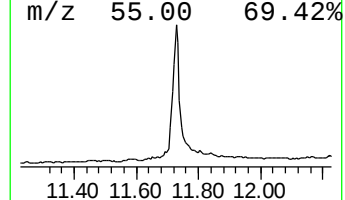
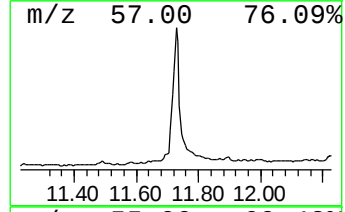
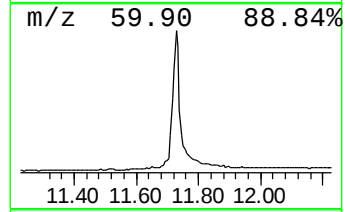
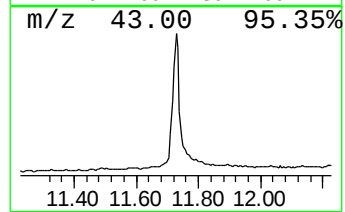
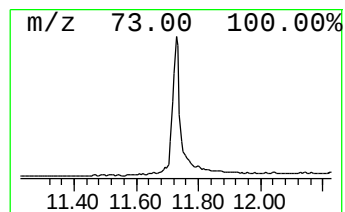
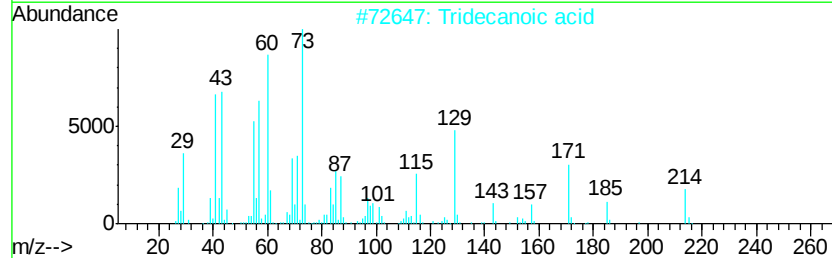
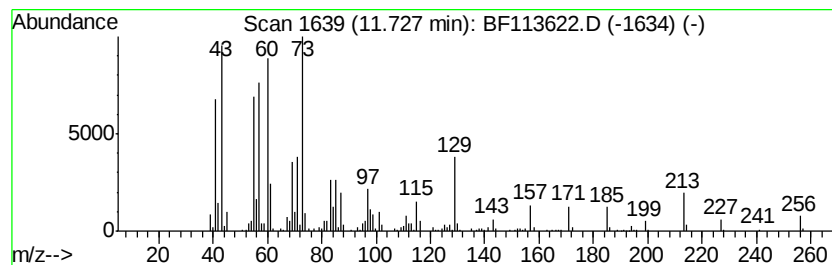
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.73 | 19.70 ng | 945508 | Phenanthrene-d10 | 11.19 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 95   |
| 3    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 93   |
| 4    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 91   |
| 5    |    | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 62   |



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Sample : K2221-01  
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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

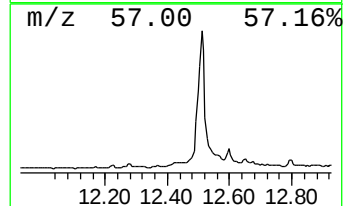
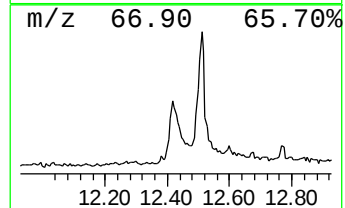
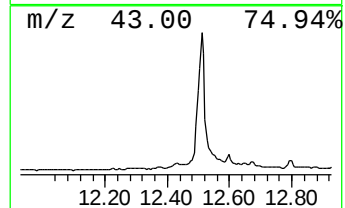
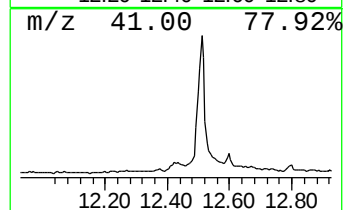
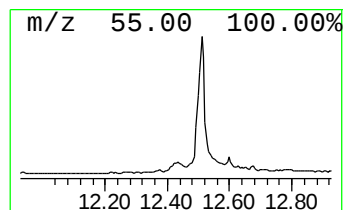
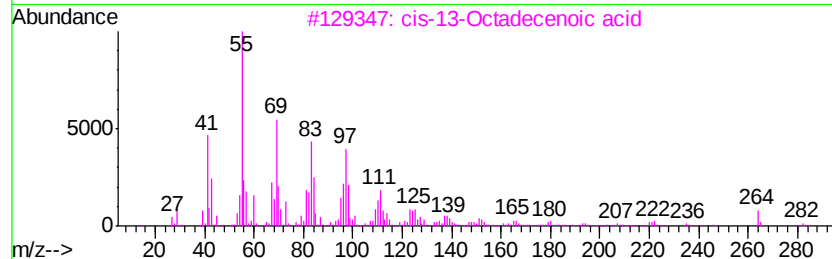
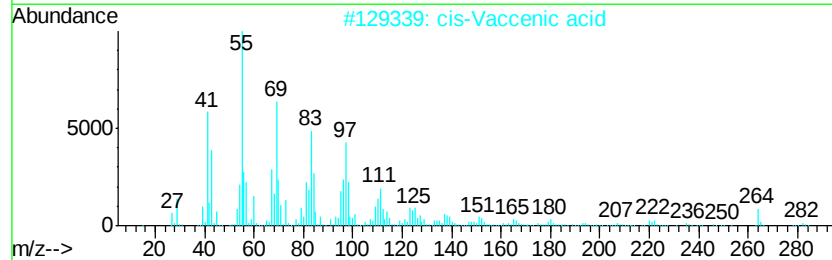
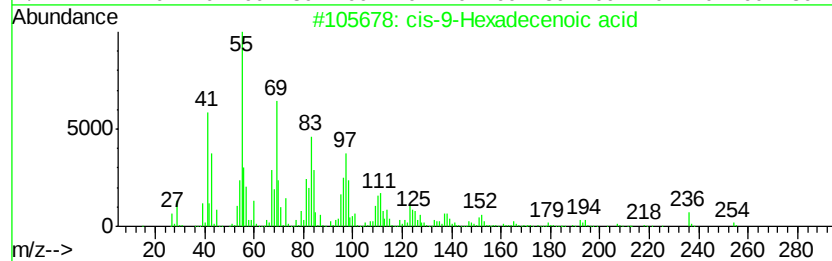
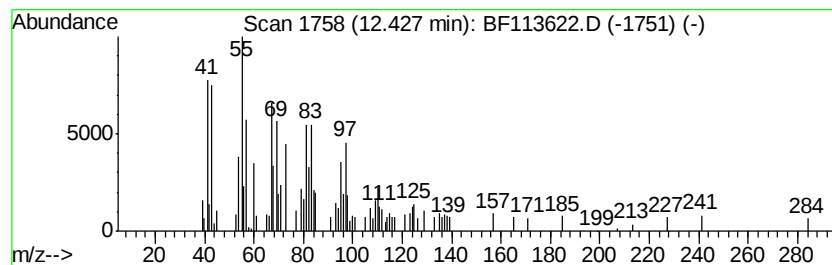
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 cis-9-Hexadecenoic acid Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.43 | 4.32 ng | 207575 | Phenanthrene-d10 | 11.19 |

| Hit# | of | Tentative ID                    | MW  | MolForm  | CAS#         | Qual |
|------|----|---------------------------------|-----|----------|--------------|------|
| 1    | 5  | cis-9-Hexadecenoic acid         | 254 | C16H30O2 | 1000333-19-5 | 68   |
| 2    |    | cis-Vaccenic acid               | 282 | C18H34O2 | 000506-17-2  | 68   |
| 3    |    | cis-13-Octadecenoic acid        | 282 | C18H34O2 | 013126-39-1  | 64   |
| 4    |    | 9-Oxabicyclo[6.1.0]nonane, cis- | 126 | C8H14O   | 004925-71-7  | 50   |
| 5    |    | Oleic Acid                      | 282 | C18H34O2 | 000112-80-1  | 49   |



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Misc :  
ALS Vial : 3 Sample Multiplier: 1

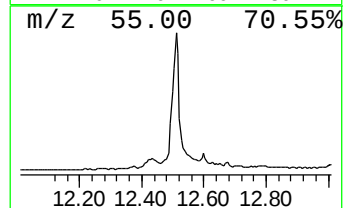
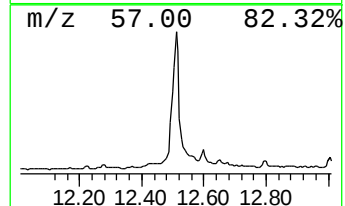
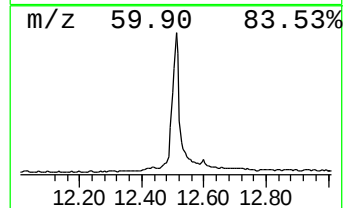
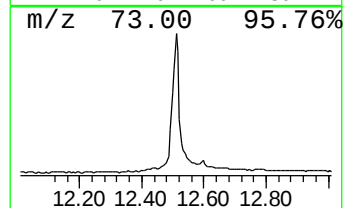
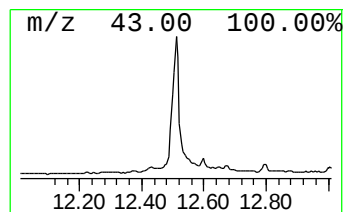
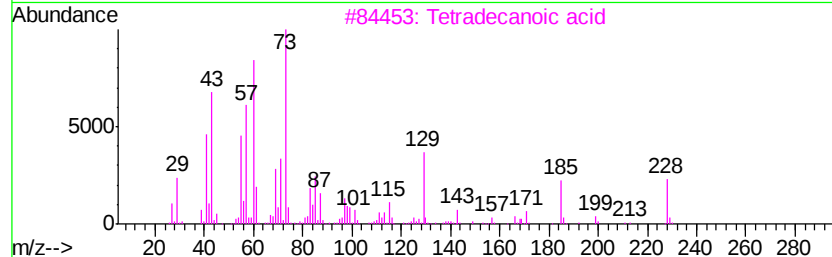
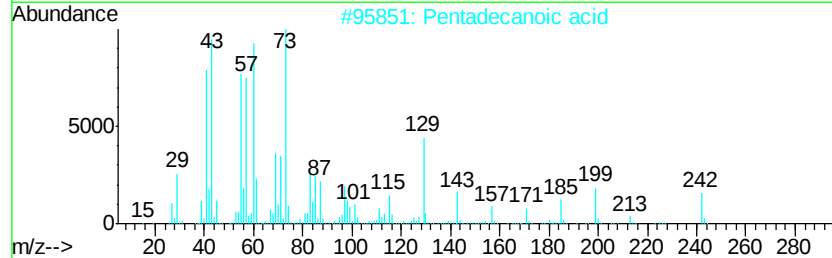
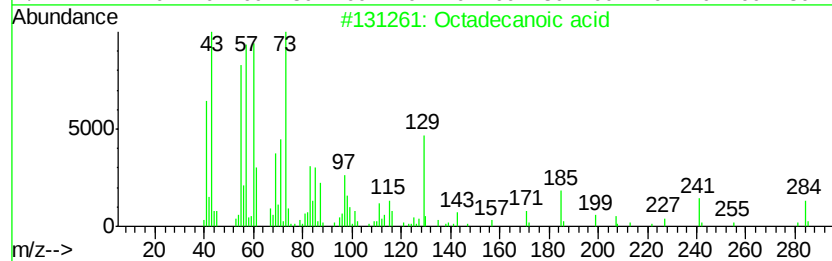
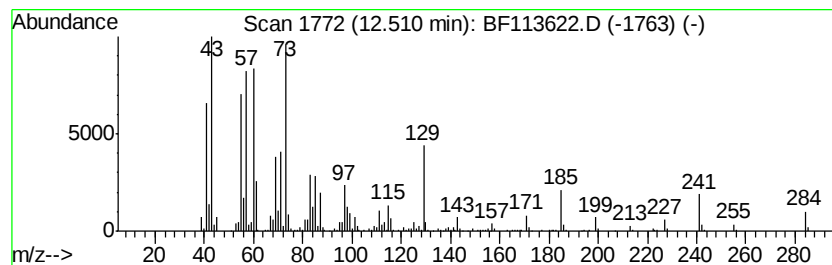
Instrument :  
BNA\_F  
ClientSampleId :  
S10B(2-10)COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 Octadecanoic acid Concentration Rank 3

| R.T.      | EstConc             | Area    | Relative to ISTD |             | R.T.  |
|-----------|---------------------|---------|------------------|-------------|-------|
| 12.51     | 50.23 ng            | 1987120 | Chrysene-d12     |             | 13.82 |
| 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 | 91    |
| 3         | Tetradecanoic acid  | 228     | C14H28O2         | 000544-63-8 | 90    |
| 4         | n-Hexadecanoic acid | 256     | C16H32O2         | 000057-10-3 | 87    |
| 5         | n-Decanoic acid     | 172     | C10H20O2         | 000334-48-5 | 68    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

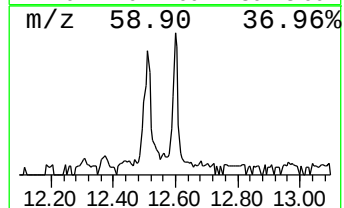
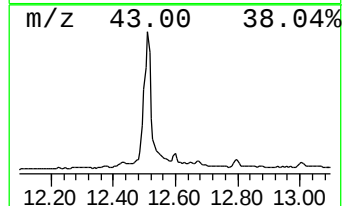
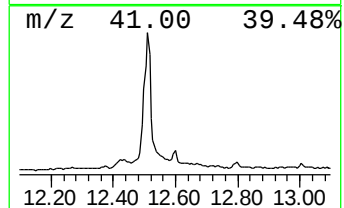
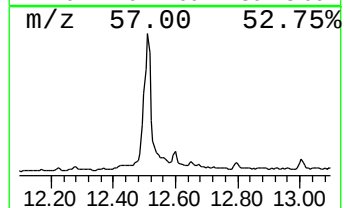
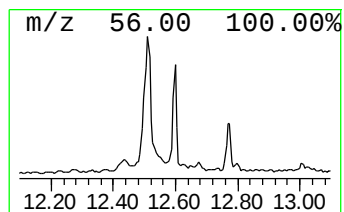
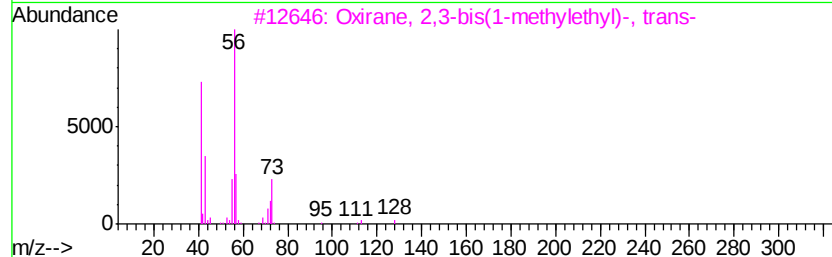
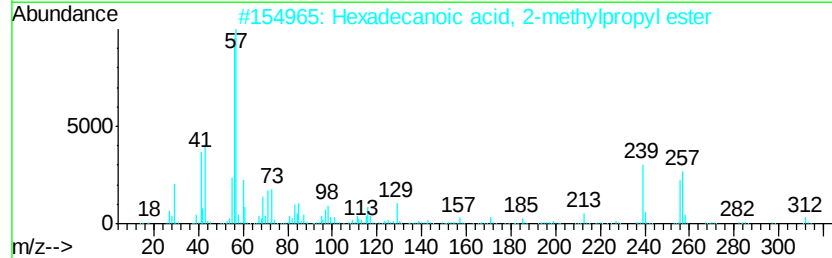
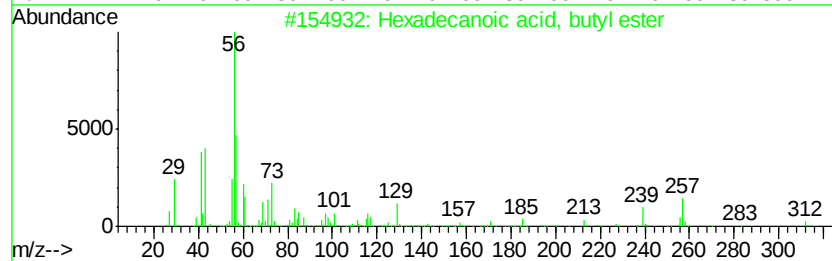
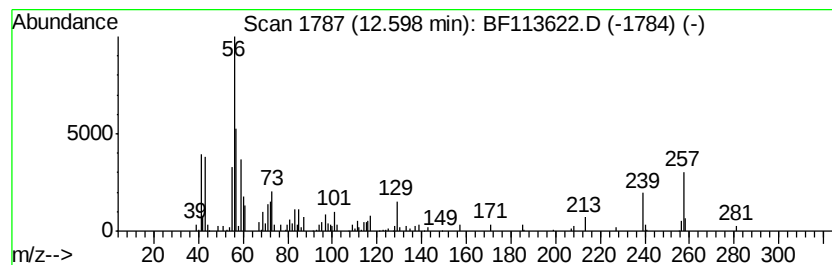
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Hexadecanoic acid, butyl ester Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.60 | 2.31 ng | 91537 | Chrysene-d12     | 13.82 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, butyl ester      | 312 | C20H40O2 | 000111-06-8 | 62   |
| 2    |    | Hexadecanoic acid, 2-methylpropy... | 312 | C20H40O2 | 000110-34-9 | 58   |
| 3    |    | Oxirane, 2,3-bis(1-methylethyl)-... | 128 | C8H16O   | 054644-32-5 | 43   |
| 4    |    | Cyclopentanecarboxylic acid, 2-a... | 129 | C6H11NO2 | 040482-05-1 | 35   |
| 5    |    | Piperidin-4-carboxylic acid         | 129 | C6H11NO2 | 000498-94-2 | 35   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040519\  
Data File : BF113622.D  
Acq On : 5 Apr 2019 18:34  
Operator : JU/SJ  
Sample : K2221-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S10B(2-10)COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

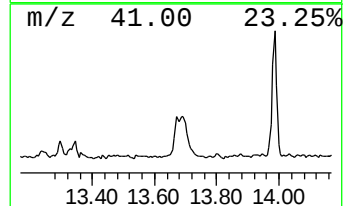
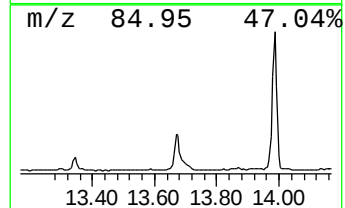
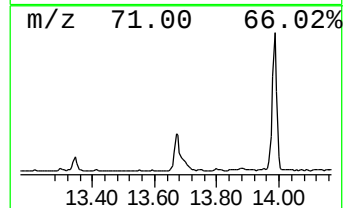
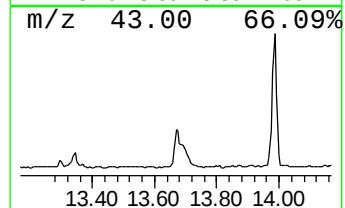
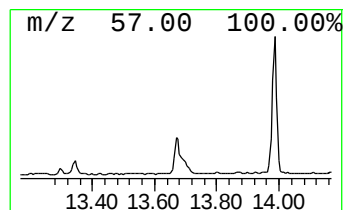
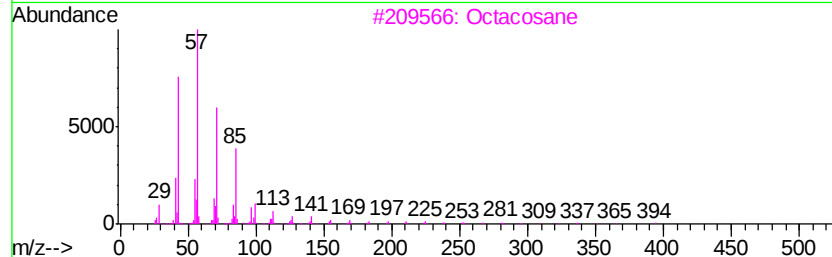
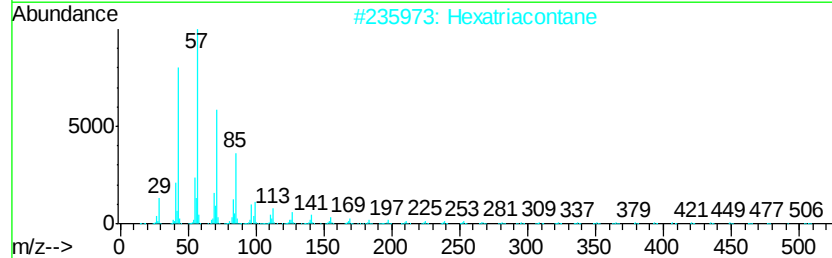
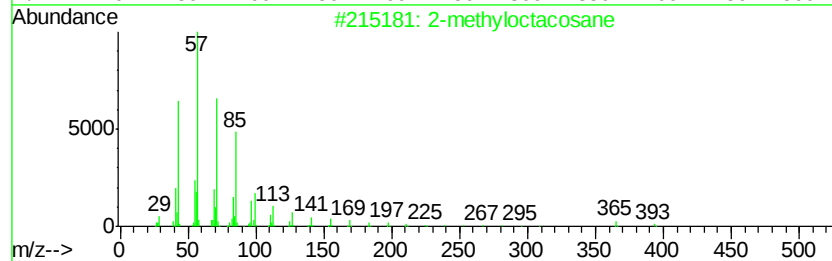
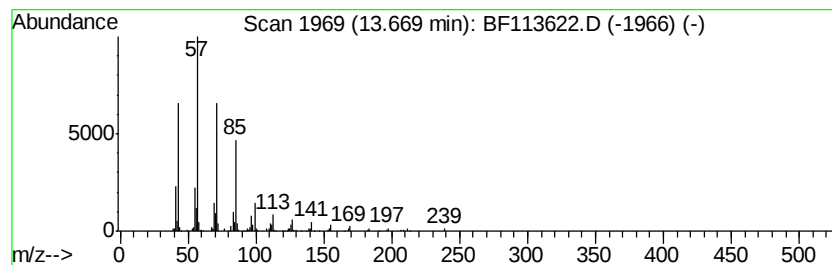
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 2-methyloctacosane Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.67 | 5.54 ng | 219056 | Chrysene-d12     | 13.82 |

| Hit# | of | 5 | Tentative ID       | MW  | MolForm | CAS#         | Qual |
|------|----|---|--------------------|-----|---------|--------------|------|
| 1    |    |   | 2-methyloctacosane | 408 | C29H60  | 1000376-72-8 | 91   |
| 2    |    |   | Hexatriacontane    | 507 | C36H74  | 000630-06-8  | 91   |
| 3    |    |   | Octacosane         | 394 | C28H58  | 000630-02-4  | 91   |
| 4    |    |   | Heneicosane        | 296 | C21H44  | 000629-94-7  | 91   |
| 5    |    |   | Hexacosane         | 366 | C26H54  | 000630-01-3  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040519\  
Data File : BF113622.D  
Acq On : 5 Apr 2019 18:34  
Operator : JU/SJ  
Sample : K2221-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S10B(2-10)COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

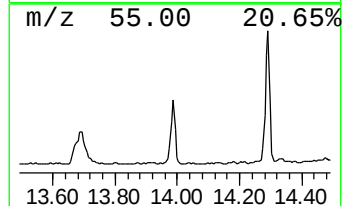
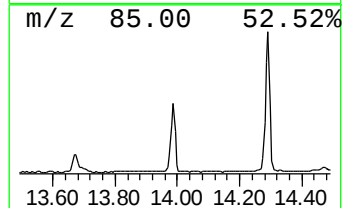
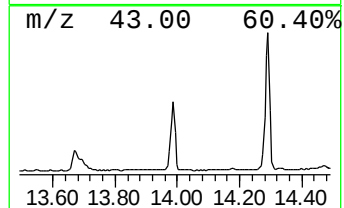
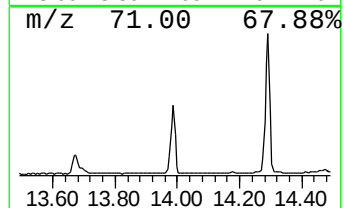
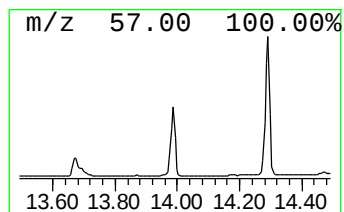
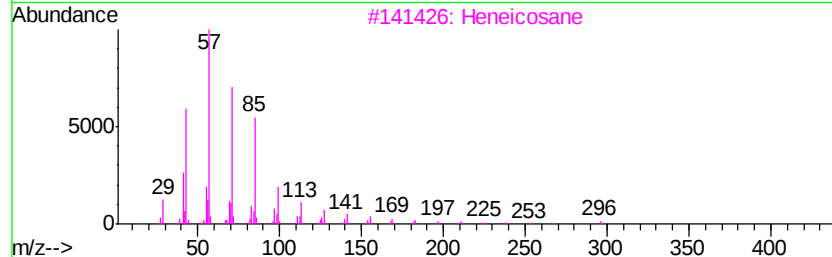
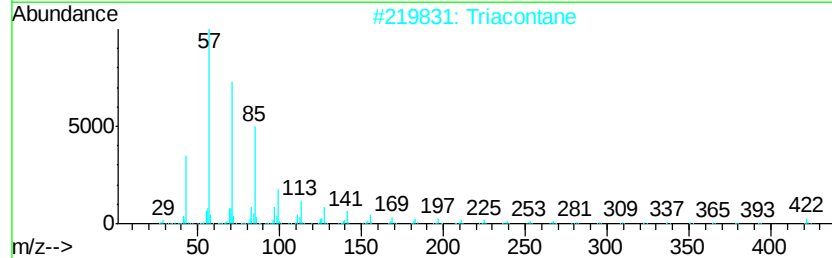
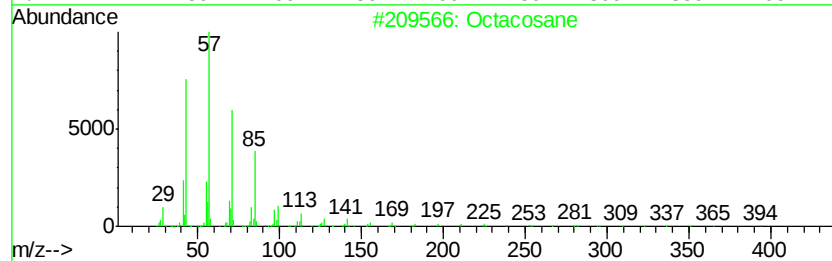
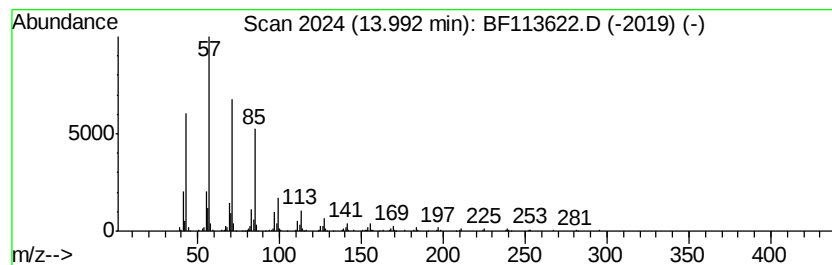
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Octacosane Concentration Rank 7

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.99 | 16.05 ng | 634855 | Chrysene-d12     | 13.82 |

| Hit# of | 5                   | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---------------------|--------------|-----|---------|-------------|------|
| 1       | Octacosane          |              | 394 | C28H58  | 000630-02-4 | 91   |
| 2       | triacontane         |              | 422 | C30H62  | 000638-68-6 | 91   |
| 3       | Heneicosane         |              | 296 | C21H44  | 000629-94-7 | 87   |
| 4       | Octadecane, 1-iodo- |              | 380 | C18H37I | 000629-93-6 | 86   |
| 5       | Hexatriacontane     |              | 507 | C36H74  | 000630-06-8 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040519\  
Data File : BF113622.D  
Acq On : 5 Apr 2019 18:34  
Operator : JU/SJ  
Sample : K2221-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S10B(2-10)COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

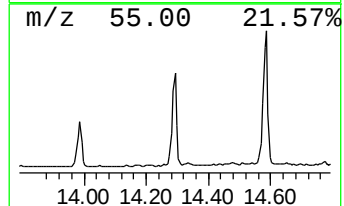
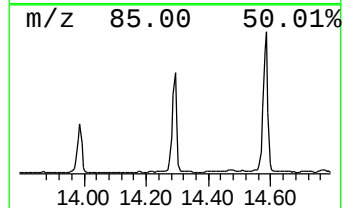
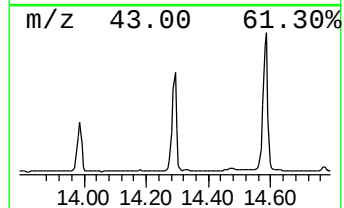
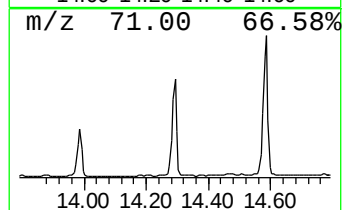
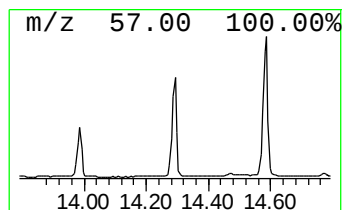
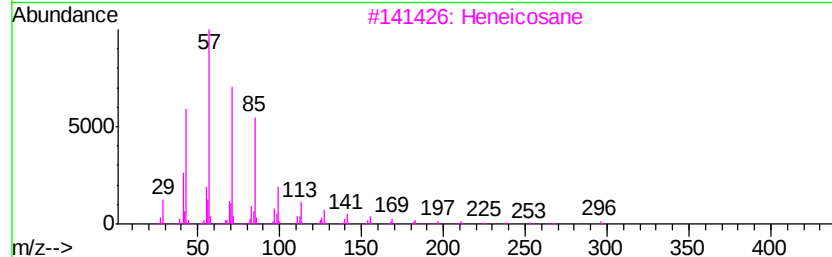
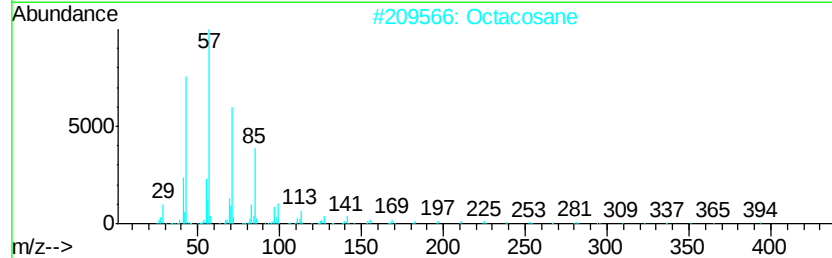
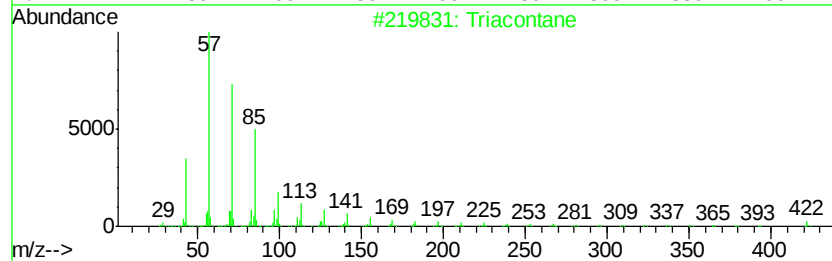
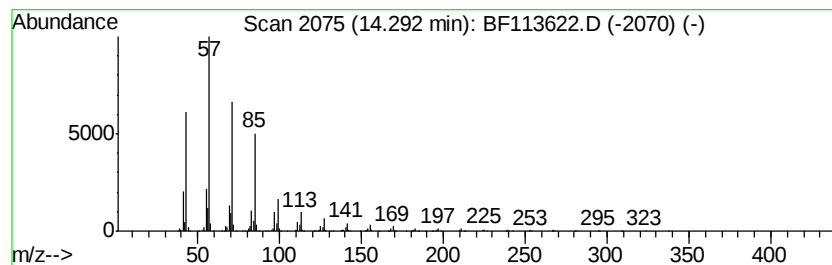
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Triacontane Concentration Rank 4

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 14.29 | 34.26 ng | 1355400 | Chrysene-d12     | 13.82 |

| Hit# of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|---------|---|-----------------------|-----|---------|-------------|------|
| 1       |   | Triacontane           | 422 | C30H62  | 000638-68-6 | 91   |
| 2       |   | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |
| 3       |   | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |
| 4       |   | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 5       |   | Eicosane              | 282 | C20H42  | 000112-95-8 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040519\  
Data File : BF113622.D  
Acq On : 5 Apr 2019 18:34  
Operator : JU/SJ  
Sample : K2221-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S10B(2-10)COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

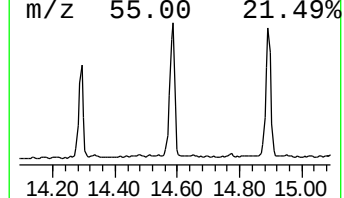
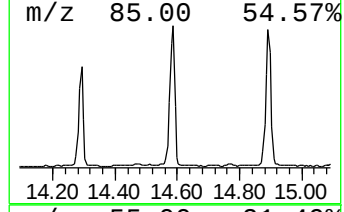
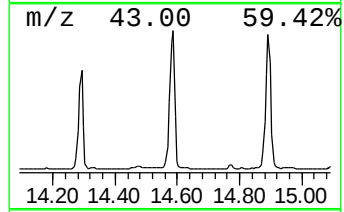
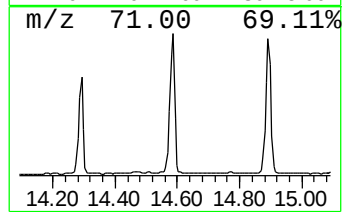
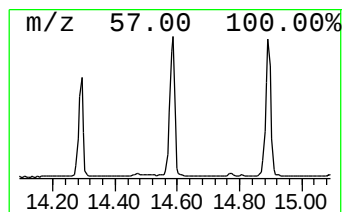
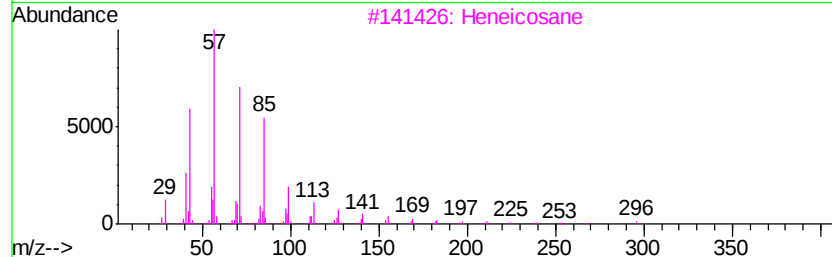
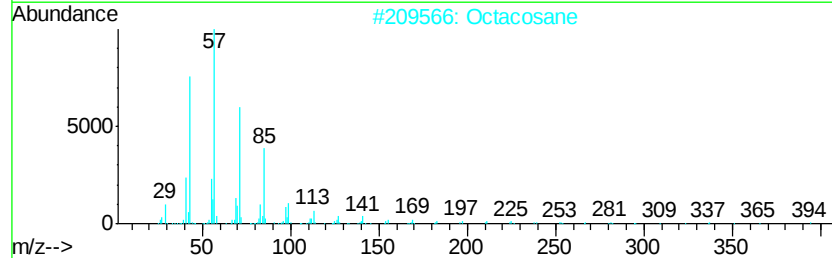
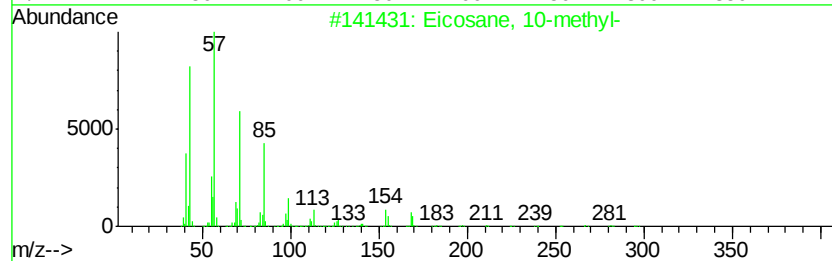
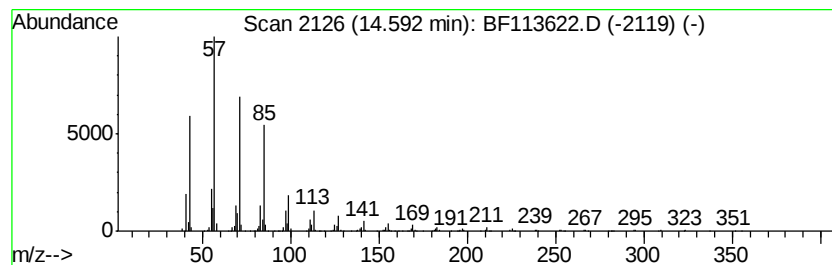
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Eicosane, 10-methyl- Concentration Rank 8

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 14.59 | 15.38 ng | 2084140 | Perylene-d12     | 15.23 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane, 10-methyl-  | 296 | C21H44  | 054833-23-7 | 94   |
| 2    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |
| 4    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 91   |
| 5    |    | Octadecane            | 254 | C18H38  | 000593-45-3 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040519\  
Data File : BF113622.D  
Acq On : 5 Apr 2019 18:34  
Operator : JU/SJ  
Sample : K2221-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S10B(2-10)COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

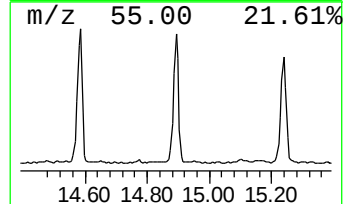
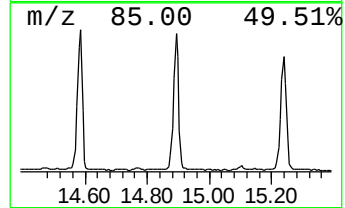
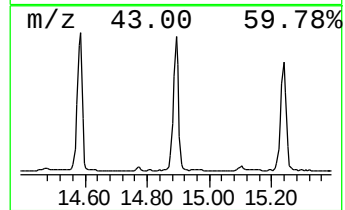
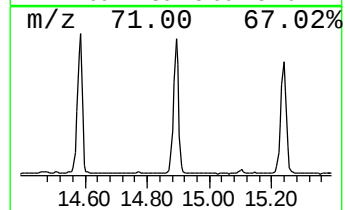
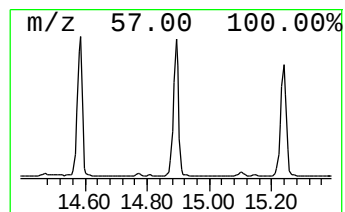
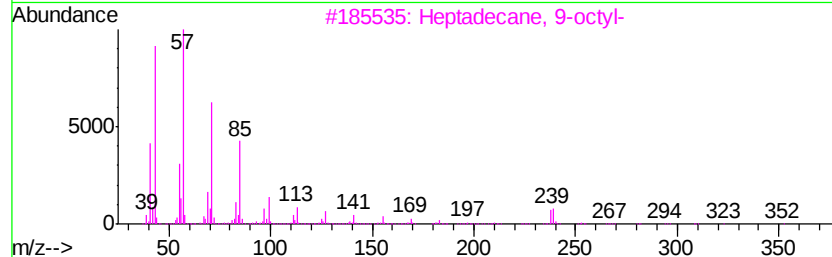
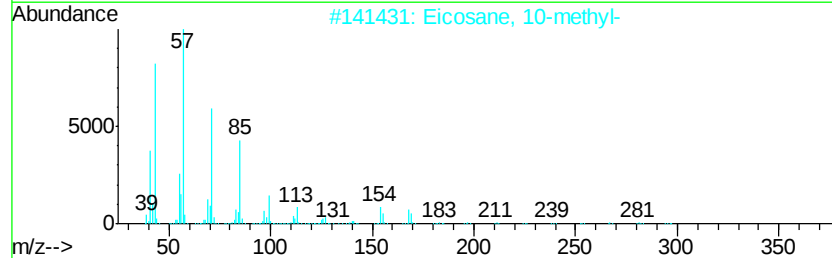
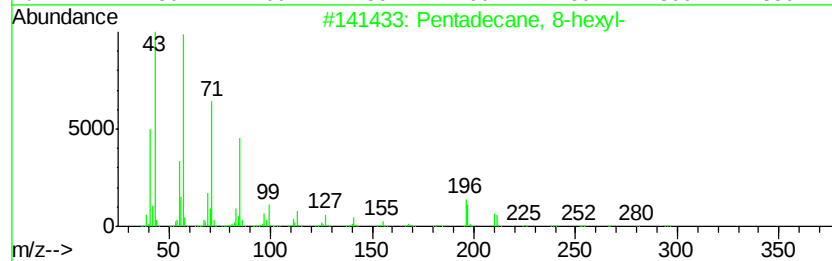
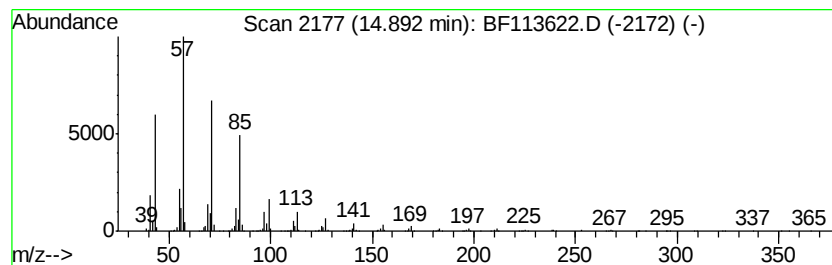
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Pentadecane, 8-hexyl- Concentration Rank 6

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 14.89 | 16.38 ng | 2220030 | Perylene-d12     | 15.23 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7 | 94   |
| 2    |    | Eicosane, 10-methyl-  | 296 | C21H44  | 054833-23-7 | 94   |
| 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\BF040519\  
Data File : BF113622.D  
Acq On : 5 Apr 2019 18:34  
Operator : JU/SJ  
Sample : K2221-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S10B(2-10)COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

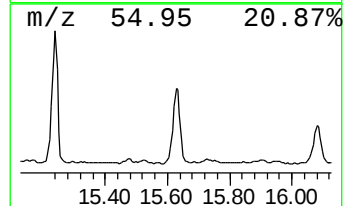
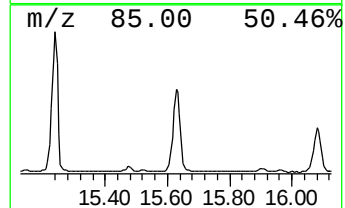
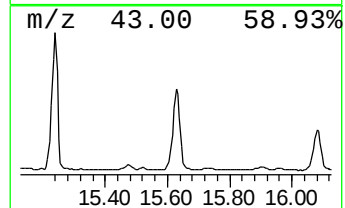
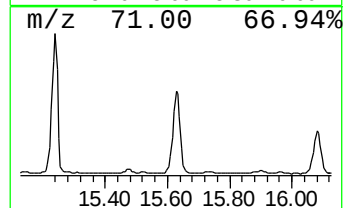
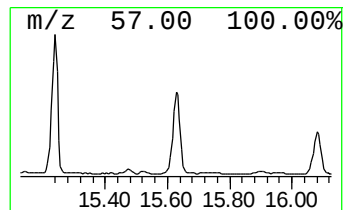
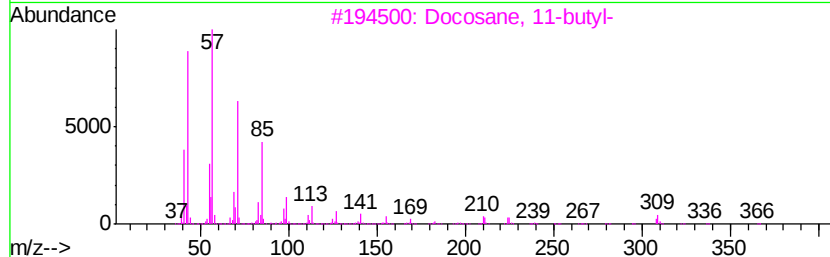
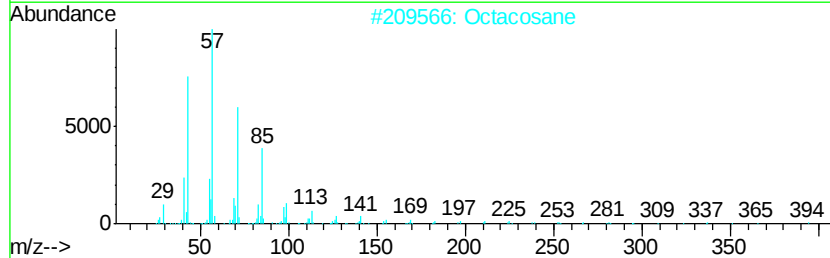
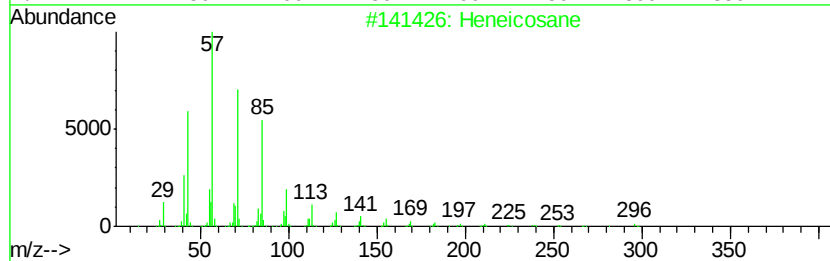
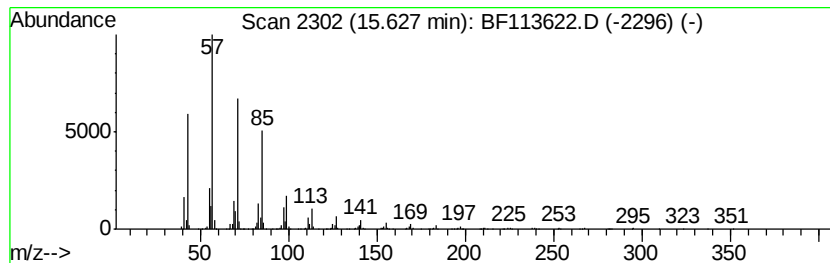
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Heneicosane Concentration Rank 9

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 15.63 | 11.24 ng | 1523670 | Perylene-d12     | 15.23 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane         | 296 | C21H44  | 000629-94-7 | 91   |
| 2    |    | Octacosane          | 394 | C28H58  | 000630-02-4 | 91   |
| 3    |    | Docosane, 11-butyl- | 366 | C26H54  | 013475-76-8 | 91   |
| 4    |    | Eicosane, 7-hexyl-  | 366 | C26H54  | 055333-99-8 | 90   |
| 5    |    | Hentriacontane      | 437 | C31H64  | 000630-04-6 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040519\  
Data File : BF113622.D  
Acq On : 5 Apr 2019 18:34  
Operator : JU/SJ  
Sample : K2221-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

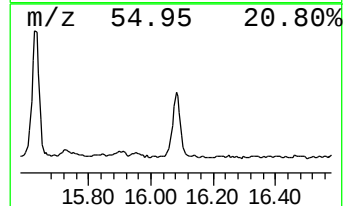
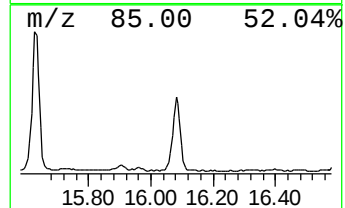
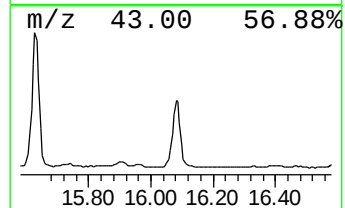
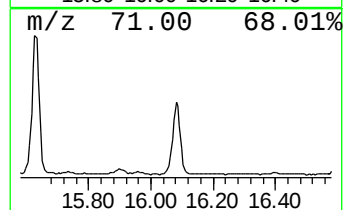
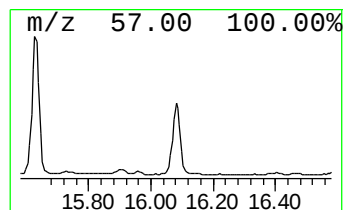
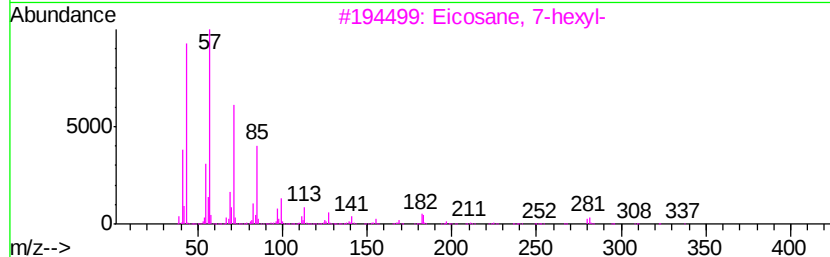
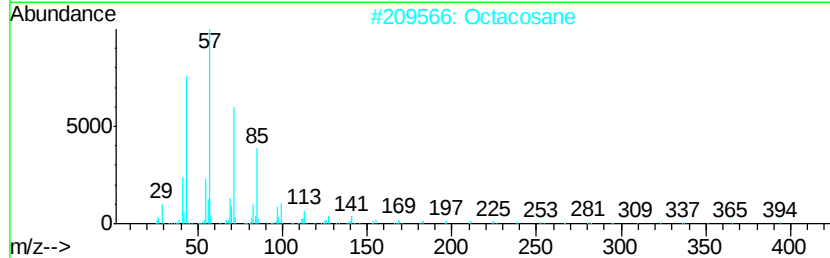
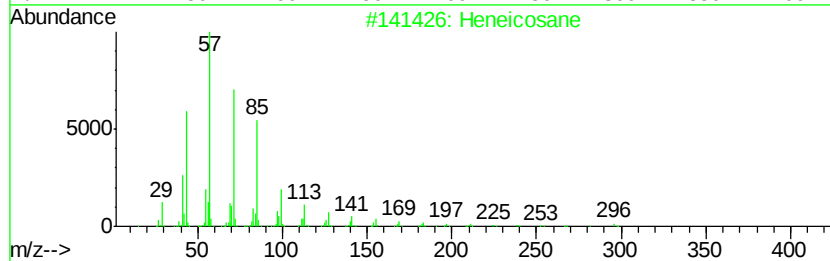
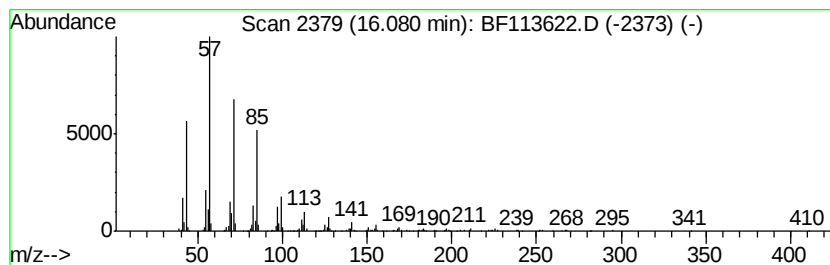
Instrument :  
BNA\_F  
ClientSampleId :  
S10B(2-10)COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.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 Eicosane, 7-hexyl- Concentration Rank 10

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 16.08     | 6.67 ng             | 903921 | Perylene-d12     | 15.23       |      |
| 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         | Eicosane, 7-hexyl-  | 366    | C26H54           | 055333-99-8 | 90   |
| 4         | Docosane, 11-butyl- | 366    | C26H54           | 013475-76-8 | 90   |
| 5         | Tetratetracontane   | 619    | C44H90           | 007098-22-8 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040519\  
Data File : BF113622.D  
Acq On : 5 Apr 2019 18:34  
Operator : JU/SJ  
Sample : K2221-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S10B(2-10)COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

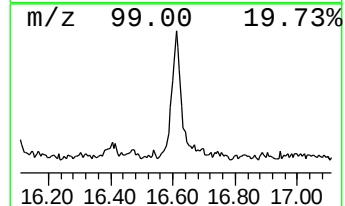
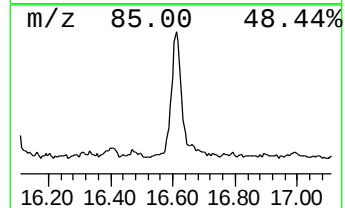
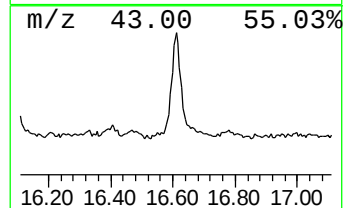
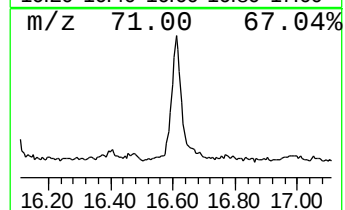
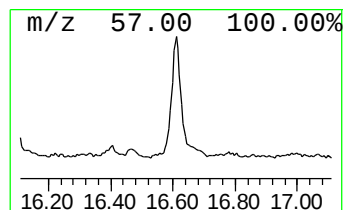
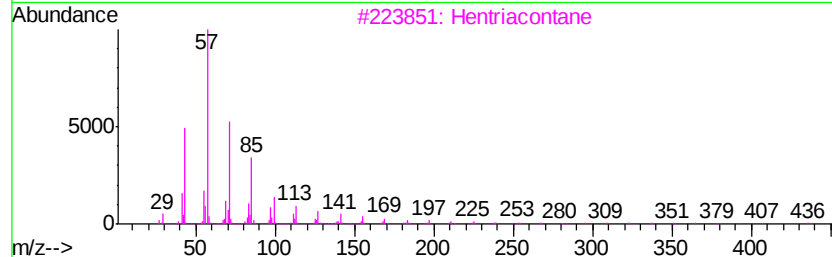
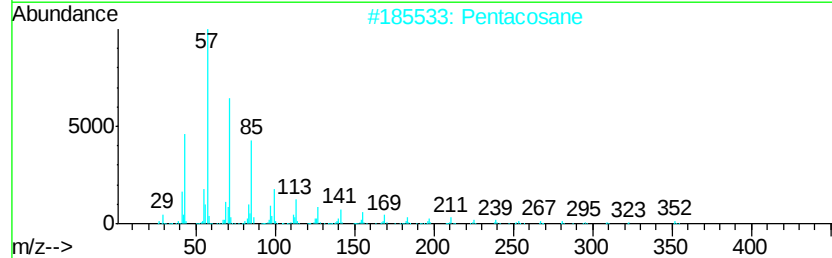
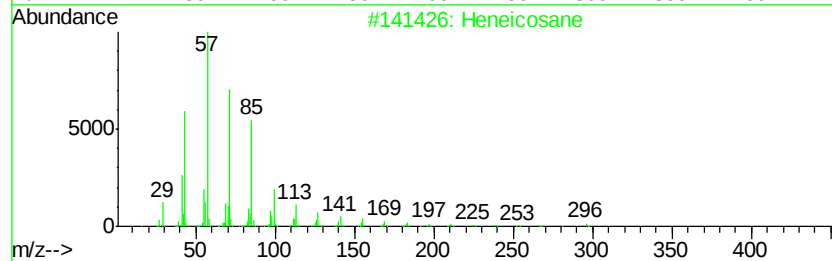
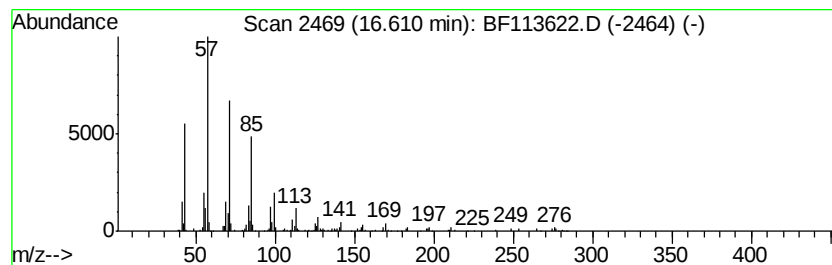
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Pentacosane Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.61 | 2.05 ng | 277592 | Perylene-d12     | 15.23 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane       | 296 | C21H44  | 000629-94-7 | 90   |
| 2    |    | Pentacosane       | 352 | C25H52  | 000629-99-2 | 87   |
| 3    |    | Hentriacontane    | 437 | C31H64  | 000630-04-6 | 87   |
| 4    |    | Octacosane        | 394 | C28H58  | 000630-02-4 | 87   |
| 5    |    | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040519\  
 Data File : BF113622.D  
 Acq On : 5 Apr 2019 18:34  
 Operator : JU/SJ  
 Sample : K2221-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S10B(2-10)COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF040319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name        | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|-------------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                         |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown6.46             | 6.46  | 87.8    | ng    | 2644670  | 1                     | 6.68  | 602512  | 20.0 |
| n-Hexadecanoic acid     | 11.73 | 19.7    | ng    | 945508   | 4                     | 11.19 | 960131  | 20.0 |
| cis-9-Hexadecenoic acid | 12.43 | 4.3     | ng    | 207575   | 4                     | 11.19 | 960131  | 20.0 |
| Octadecanoic acid       | 12.51 | 50.2    | ng    | 1987120  | 5                     | 13.82 | 791215  | 20.0 |
| Hexadecanoic acid...    | 12.60 | 2.3     | ng    | 91537    | 5                     | 13.82 | 791215  | 20.0 |
| 2-methyloctacosane      | 13.67 | 5.5     | ng    | 219056   | 5                     | 13.82 | 791215  | 20.0 |
| Octacosane              | 13.99 | 16.1    | ng    | 634855   | 5                     | 13.82 | 791215  | 20.0 |
| triacontane             | 14.29 | 34.3    | ng    | 1355400  | 5                     | 13.82 | 791215  | 20.0 |
| Eicosane, 10-methyl-    | 14.59 | 15.4    | ng    | 2084140  | 6                     | 15.23 | 2710950 | 20.0 |
| Pentadecane, 8-he...    | 14.89 | 16.4    | ng    | 2220030  | 6                     | 15.23 | 2710950 | 20.0 |
| Heneicosane             | 15.63 | 11.2    | ng    | 1523670  | 6                     | 15.23 | 2710950 | 20.0 |
| Eicosane, 7-hexyl-      | 16.08 | 6.7     | ng    | 903921   | 6                     | 15.23 | 2710950 | 20.0 |
| Pentacosane             | 16.61 | 2.0     | ng    | 277592   | 6                     | 15.23 | 2710950 | 20.0 |