

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030619\  
 Data File : BF112909.D  
 Acq On : 7 Mar 2019 4:22  
 Operator : JU/SJ  
 Sample : K1705-15  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-028-B097-022719

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-BF022719.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         | 5.340       | 548           | 553         | 556          | rBV      | 2977533        | 3029450       | 80.85%          | 8.084%        |
| 2         | 6.016       | 664           | 668         | 671          | rBV      | 75619          | 68320         | 1.82%           | 0.182%        |
| 3         | 6.369       | 723           | 728         | 738          | rBV      | 3204857        | 3270468       | 87.28%          | 8.727%        |
| 4         | 6.498       | 746           | 750         | 753          | rBV      | 3616739        | 3284774       | 87.66%          | 8.766%        |
| 5         | 6.728       | 786           | 789         | 793          | rBV      | 1186851        | 1010811       | 26.98%          | 2.697%        |
| 6         | 6.887       | 812           | 816         | 819          | rBV      | 3180271        | 2559854       | 68.32%          | 6.831%        |
| 7         | 7.287       | 880           | 884         | 887          | rBV      | 2151391        | 1971436       | 52.61%          | 5.261%        |
| 8         | 8.010       | 1004          | 1007        | 1013         | rBV      | 1427674        | 1301161       | 34.73%          | 3.472%        |
| 9         | 8.057       | 1013          | 1015        | 1029         | rVB2     | 30670          | 75236         | 2.01%           | 0.201%        |
| 10        | 9.086       | 1186          | 1190        | 1205         | rBV      | 4016747        | 3746963       | 100.00%         | 9.999%        |
| 11        | 9.481       | 1253          | 1257        | 1264         | rBV      | 185950         | 176185        | 4.70%           | 0.470%        |
| 12        | 9.763       | 1301          | 1305        | 1314         | rBV      | 1391197        | 1409402       | 37.61%          | 3.761%        |
| 13        | 10.545      | 1433          | 1438        | 1454         | rBV      | 2314509        | 2410151       | 64.32%          | 6.432%        |
| 14        | 11.239      | 1552          | 1556        | 1559         | rBV      | 1363457        | 1362038       | 36.35%          | 3.635%        |
| 15        | 11.774      | 1643          | 1647        | 1656         | rBV      | 607648         | 671332        | 17.92%          | 1.791%        |
| 16        | 12.439      | 1757          | 1760        | 1764         | rBV      | 161296         | 166611        | 4.45%           | 0.445%        |
| 17        | 12.557      | 1777          | 1780        | 1790         | rBV2     | 169782         | 225837        | 6.03%           | 0.603%        |
| 18        | 12.669      | 1793          | 1799        | 1802         | rVV      | 161730         | 189918        | 5.07%           | 0.507%        |
| 19        | 12.816      | 1820          | 1824        | 1833         | rVB      | 3516007        | 3176530       | 84.78%          | 8.477%        |
| 20        | 13.398      | 1921          | 1923        | 1929         | rVB4     | 31453          | 42490         | 1.13%           | 0.113%        |
| 21        | 13.510      | 1938          | 1942        | 1946         | rBV3     | 30275          | 50384         | 1.34%           | 0.134%        |
| 22        | 13.721      | 1975          | 1978        | 1986         | rBV      | 517029         | 681910        | 18.20%          | 1.820%        |
| 23        | 13.857      | 1996          | 2001        | 2005         | rBV      | 1404427        | 1568312       | 41.86%          | 4.185%        |
| 24        | 14.045      | 2030          | 2033        | 2039         | rBV3     | 72627          | 78715         | 2.10%           | 0.210%        |
| 25        | 14.357      | 2081          | 2086        | 2098         | rVB2     | 259690         | 490869        | 13.10%          | 1.310%        |
| 26        | 14.639      | 2131          | 2134        | 2142         | rBV      | 139813         | 156922        | 4.19%           | 0.419%        |
| 27        | 14.774      | 2153          | 2157        | 2162         | rVB      | 284104         | 294443        | 7.86%           | 0.786%        |
| 28        | 14.868      | 2169          | 2173        | 2181         | rVB      | 87371          | 162625        | 4.34%           | 0.434%        |
| 29        | 14.957      | 2184          | 2188        | 2191         | rBV      | 289324         | 348655        | 9.31%           | 0.930%        |
| 30        | 14.986      | 2191          | 2193        | 2205         | rVB2     | 249504         | 410069        | 10.94%          | 1.094%        |
| 31        | 15.145      | 2217          | 2220        | 2225         | rBV      | 53405          | 68717         | 1.83%           | 0.183%        |
| 32        | 15.204      | 2227          | 2230        | 2235         | rVV      | 68813          | 109298        | 2.92%           | 0.292%        |
| 33        | 15.262      | 2235          | 2240        | 2245         | rVV      | 973580         | 1223861       | 32.66%          | 3.266%        |
| 34        | 15.310      | 2245          | 2248        | 2254         | rVB      | 155921         | 209539        | 5.59%           | 0.559%        |

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Sample : K1705-15  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-028-B097-022719

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-BF022719.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 15.492 | 2276 | 2279 | 2285 | rVB2 | 70131  | 96291  | 2.57%  | 0.257% |
| 36 | 15.715 | 2312 | 2317 | 2322 | rBV  | 298972 | 442771 | 11.82% | 1.182% |
| 37 | 15.774 | 2322 | 2327 | 2333 | rBV2 | 131226 | 283947 | 7.58%  | 0.758% |
| 38 | 16.057 | 2372 | 2375 | 2380 | rBV7 | 26667  | 48534  | 1.30%  | 0.130% |
| 39 | 16.186 | 2392 | 2397 | 2401 | rBV  | 67267  | 131642 | 3.51%  | 0.351% |
| 40 | 16.445 | 2438 | 2441 | 2450 | rVB3 | 82342  | 144078 | 3.85%  | 0.384% |
| 41 | 16.733 | 2485 | 2490 | 2496 | rVB  | 92468  | 181254 | 4.84%  | 0.484% |
| 42 | 18.121 | 2719 | 2726 | 2729 | rBV8 | 47275  | 100250 | 2.68%  | 0.268% |
| 43 | 18.251 | 2745 | 2748 | 2751 | rBV5 | 26247  | 41815  | 1.12%  | 0.112% |

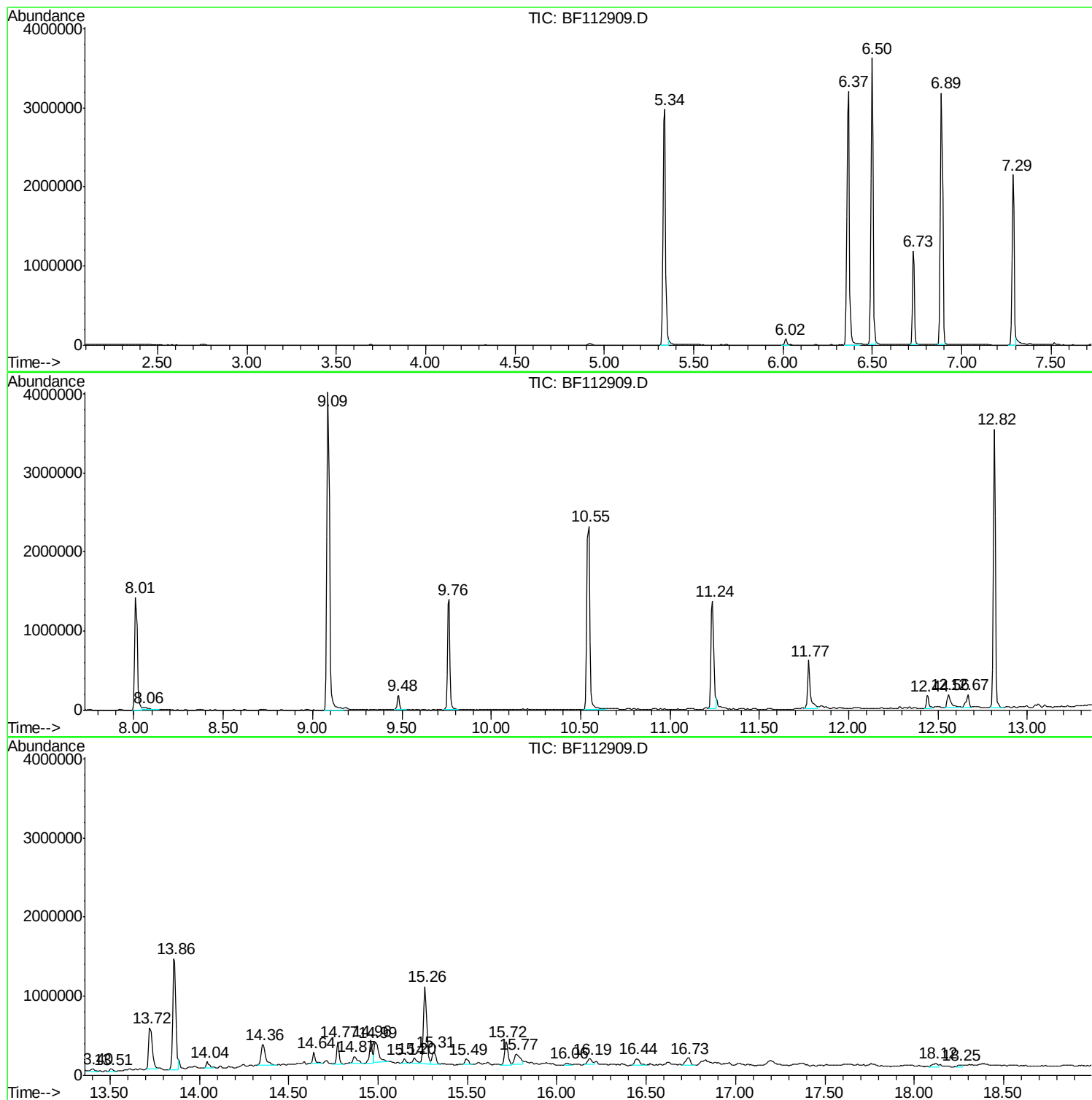
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

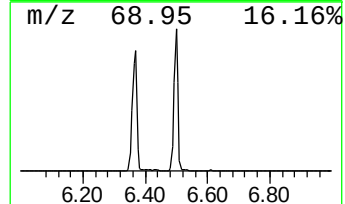
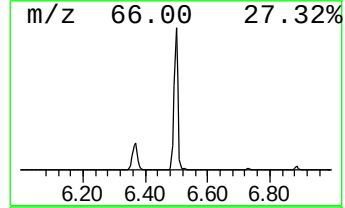
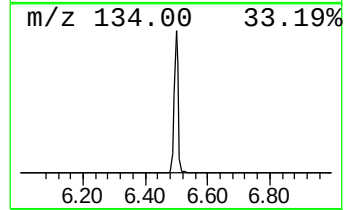
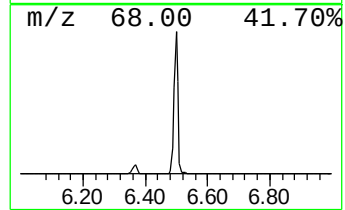
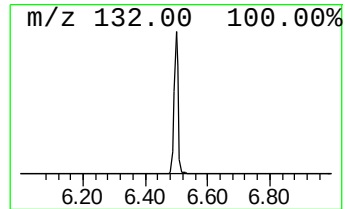
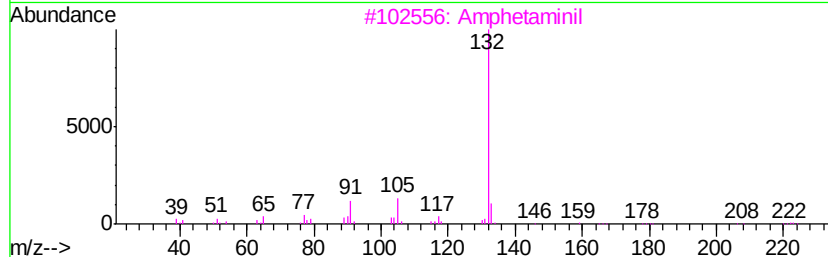
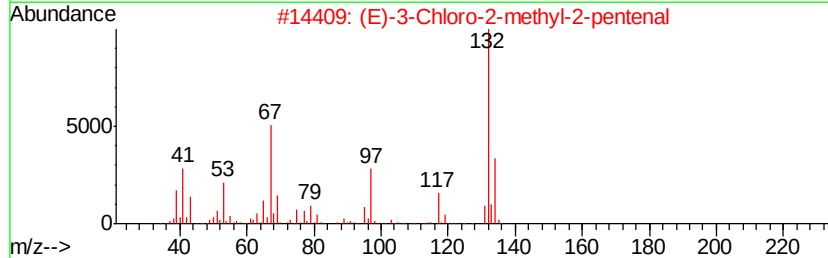
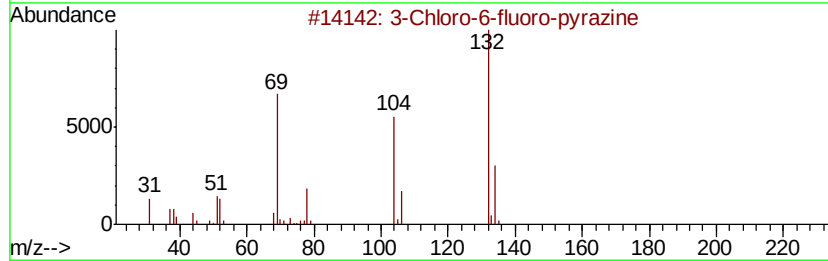
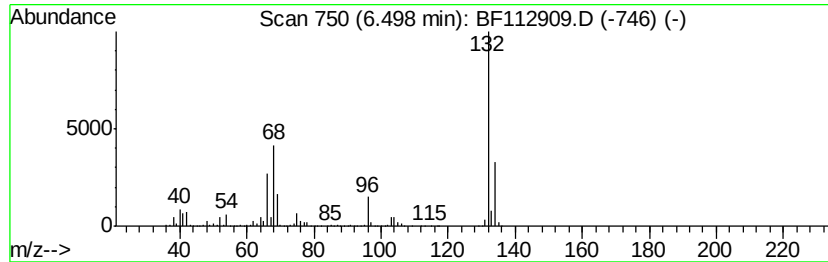
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.50 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.50 | 64.99 ng | 3284770 | 1,4-Dichlorobenzene-d4 | 6.73 |

| 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  | 12   |
| 3    |    | Amphetaminil                     | 250 | C17H18N2  | 017590-01-1  | 12   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 5    |    | 1,3,5-Trifluorobenzene           | 132 | C6H3F3    | 000372-38-3  | 9    |



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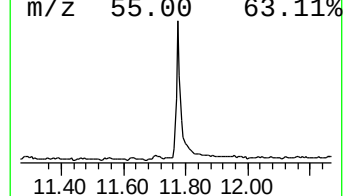
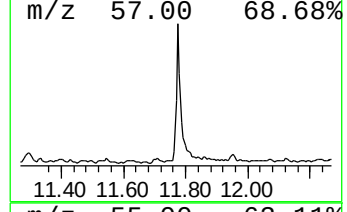
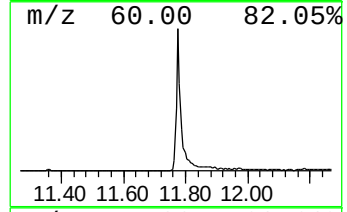
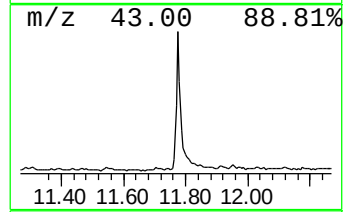
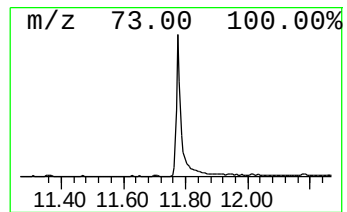
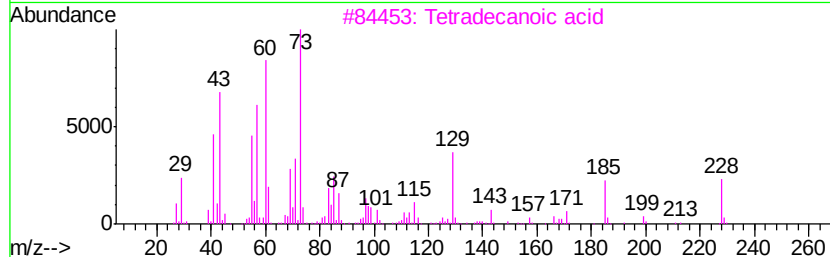
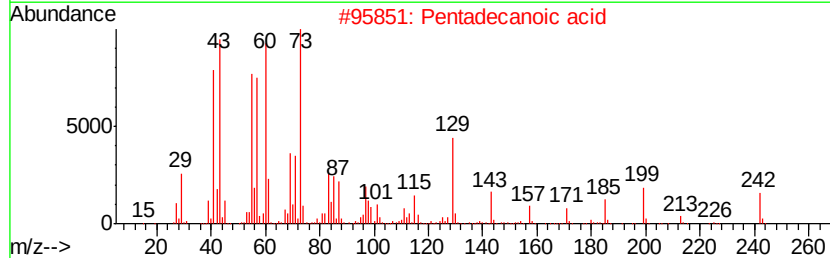
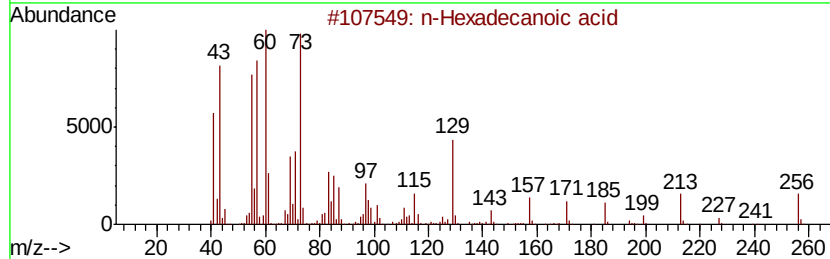
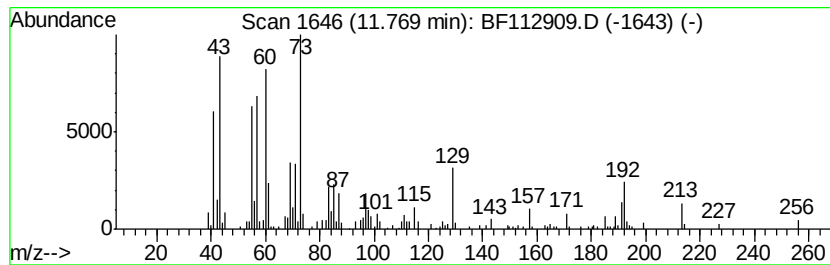
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 11.77     | 9.86 ng             | 671332 | Phenanthrene-d10 | 11.24       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 99   |
| 2         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 93   |
| 3         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 80   |
| 4         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 68   |
| 5         | Dodecanoic acid     | 200    | C12H24O2         | 000143-07-7 | 64   |



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Instrument :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

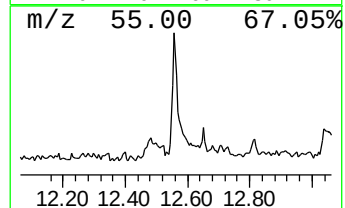
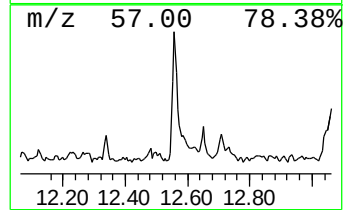
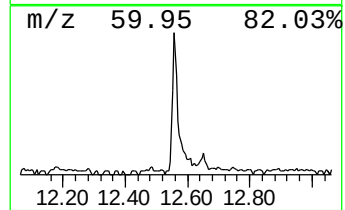
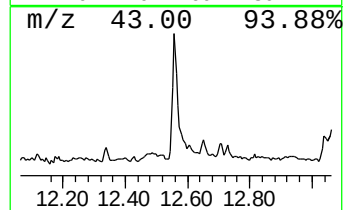
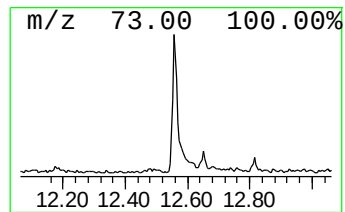
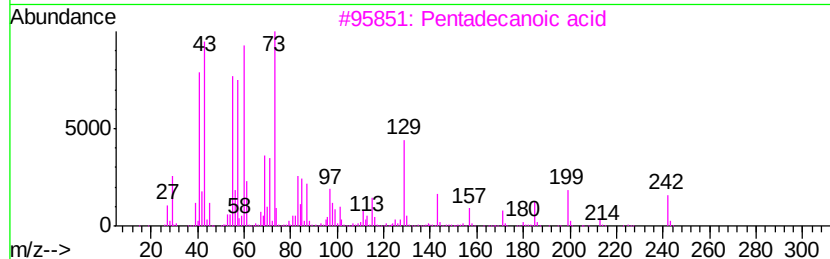
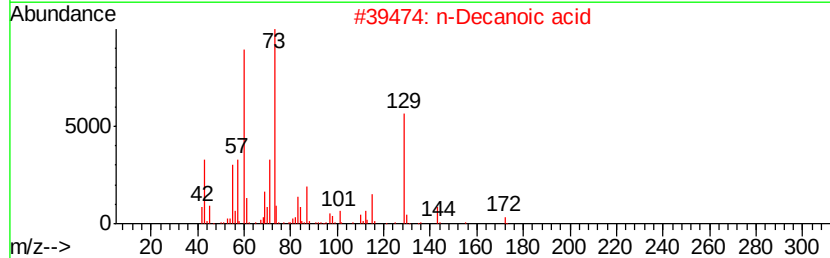
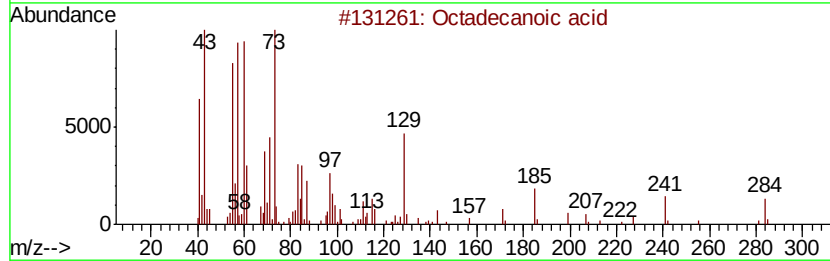
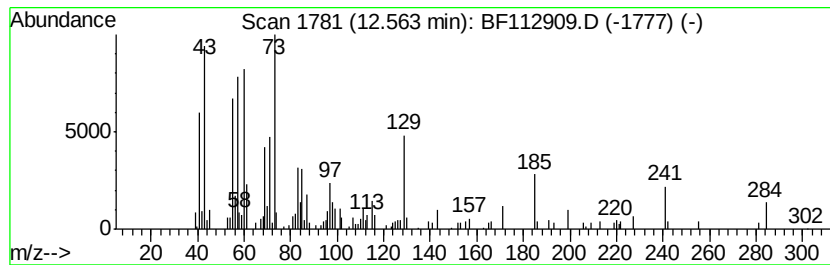
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Octadecanoic acid Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.56 | 2.88 ng | 225837 | Chrysene-d12     | 13.86 |

| Hit# | of | Tentative ID                       | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 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 | 86   |
| 4    |    | Tetradecanoic acid                 | 228 | C14H28O2 | 000544-63-8 | 83   |
| 5    |    | Octadecanoic acid, 2-(2-hydroxy... | 372 | C22H44O4 | 000106-11-6 | 80   |



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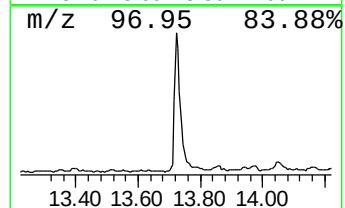
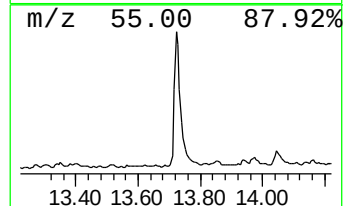
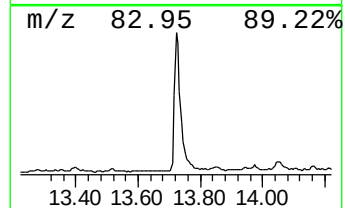
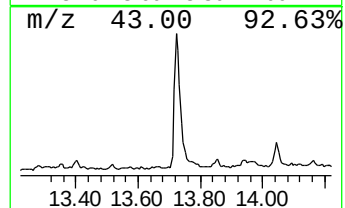
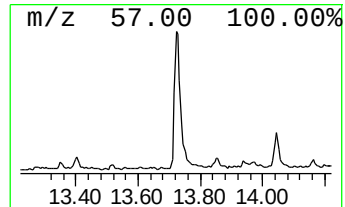
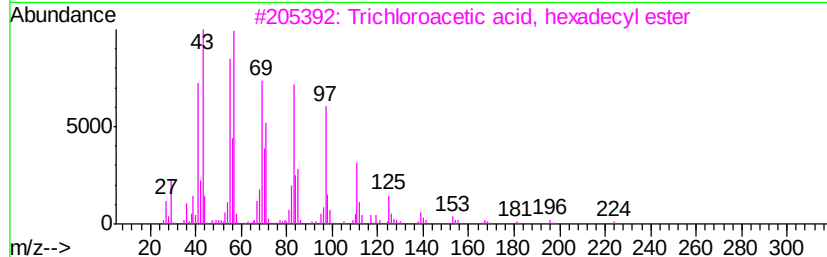
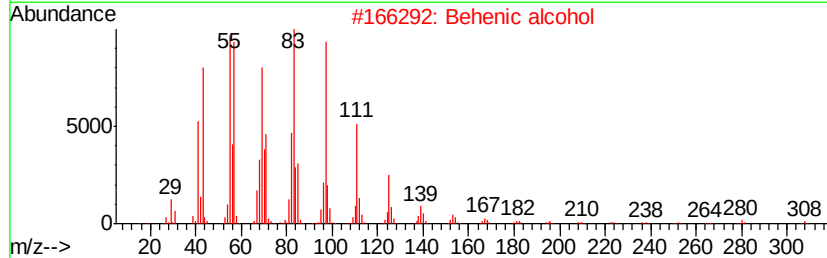
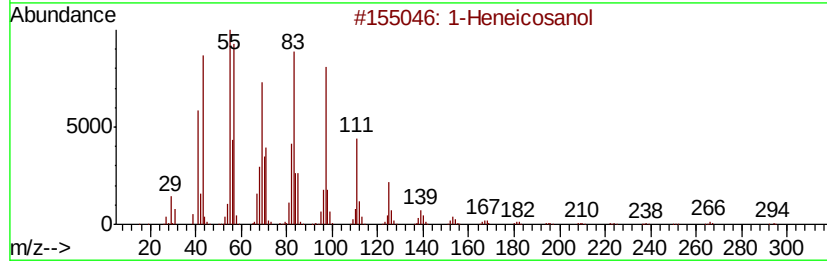
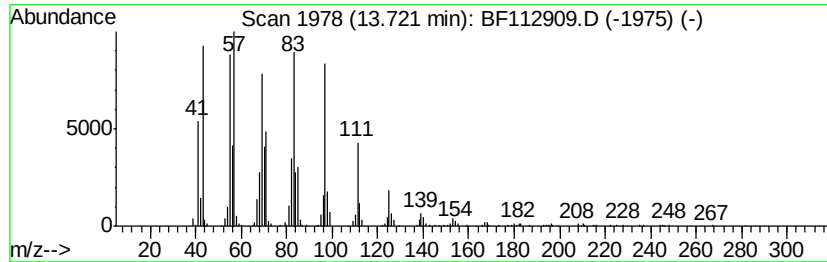
Instrument :  
BNA\_F  
ClientSampleId :  
PST-028-B097-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.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 1-Heneicosanol Concentration Rank 4

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.72     | 8.70 ng                             | 681910 | Chrysene-d12     | 13.86       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 1-Heneicosanol                      | 312    | C21H44O          | 015594-90-8 | 95   |
| 2         | Behenic alcohol                     | 326    | C22H46O          | 000661-19-8 | 95   |
| 3         | Trichloroacetic acid, hexadecyl ... | 386    | C18H33Cl3O2      | 074339-54-1 | 94   |
| 4         | Pentafluoropropionic acid, penta... | 374    | C18H31F5O2       | 959092-08-1 | 94   |
| 5         | Heptafluorobutyric acid, pentade... | 424    | C19H31F7O2       | 959261-23-5 | 94   |



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Operator : JU/SJ  
Sample : K1705-15  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

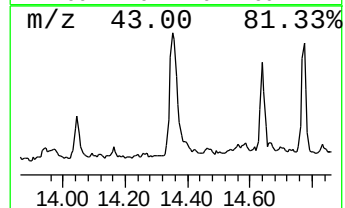
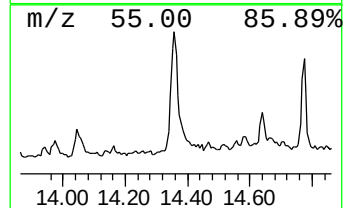
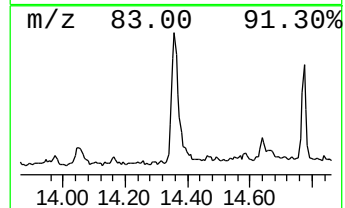
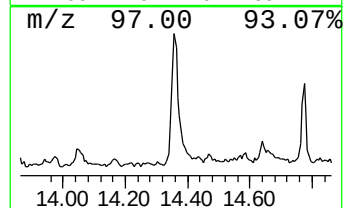
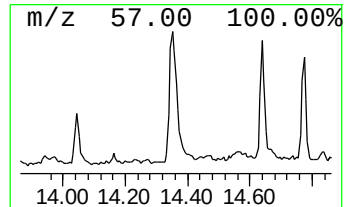
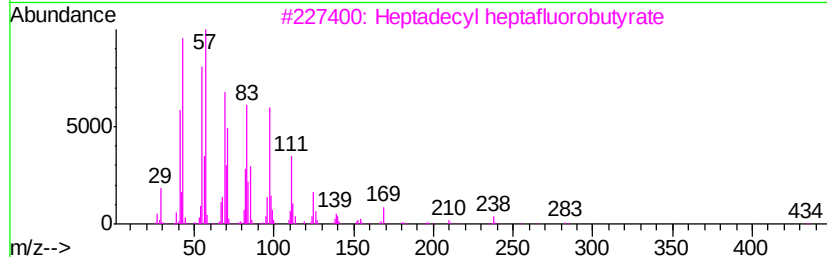
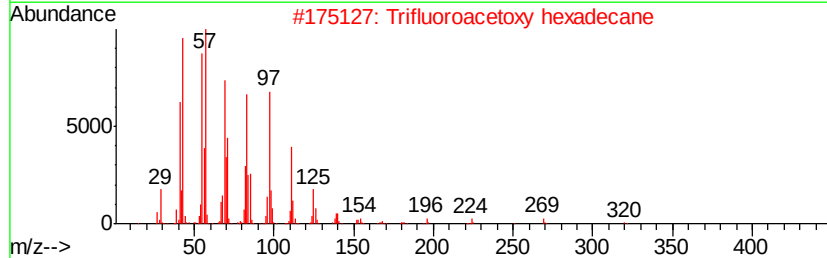
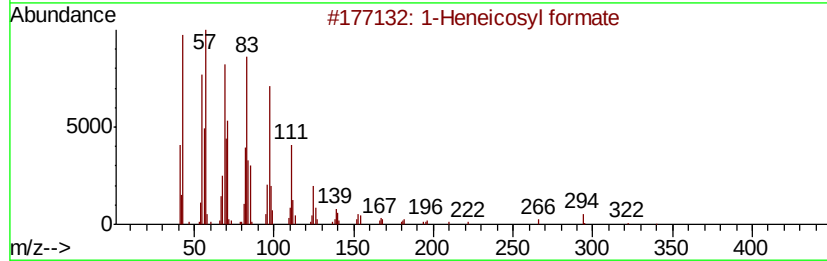
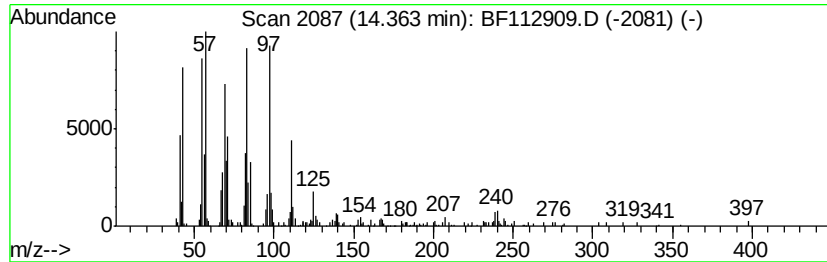
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ClientSampleId :  
PST-028-B097-022719

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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 7 1-Heneicosyl formate Concentration Rank 7

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.       |             |      |
|---------|---------|-------------------------------------|------------------|------------|-------------|------|
| 14.36   | 6.26 ng | 490869                              | Chrysene-d12     | 13.86      |             |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm    | CAS#        | Qual |
| 1       |         | 1-Heneicosyl formate                | 340              | C22H44O2   | 077899-03-7 | 95   |
| 2       |         | Trifluoroacetoxy hexadecane         | 338              | C18H33F3O2 | 006222-03-3 | 94   |
| 3       |         | Heptadecyl heptafluorobutyrate      | 452              | C21H35F7O2 | 959085-66-6 | 94   |
| 4       |         | Pentafluoropropionic acid, hepta... | 402              | C20H35F5O2 | 959218-78-1 | 94   |
| 5       |         | n-Tetracosanol-1                    | 354              | C24H50O    | 000506-51-4 | 93   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112909.D  
Acq On : 7 Mar 2019 4:22  
Operator : JU/SJ  
Sample : K1705-15  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-028-B097-022719

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

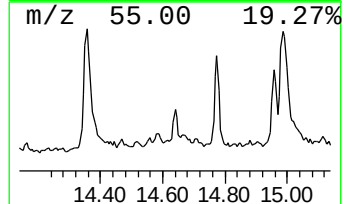
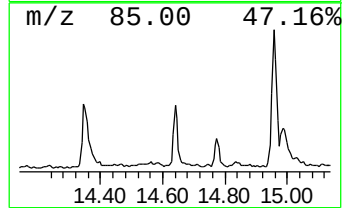
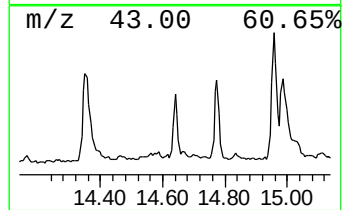
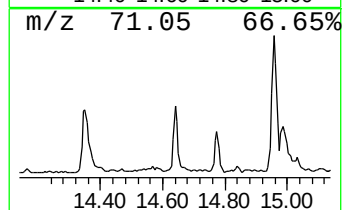
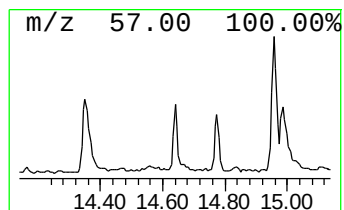
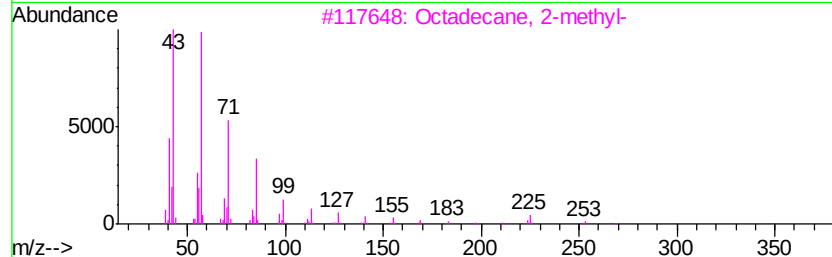
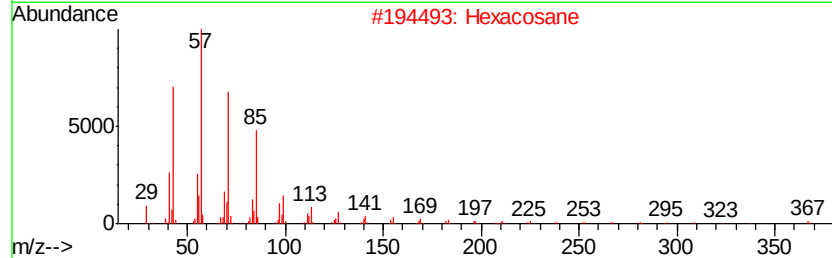
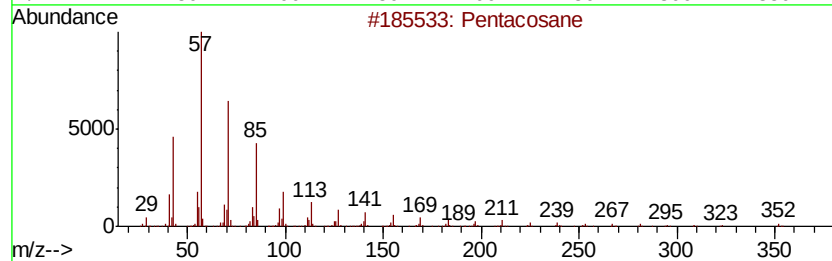
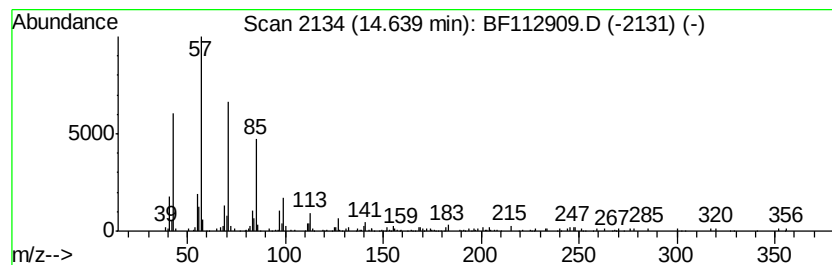
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 Pentacosane Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.64 | 2.56 ng | 156922 | Perylene-d12     | 15.26 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Pentacosane           | 352 | C25H52  | 000629-99-2 | 94   |
| 2    |    | Hexacosane            | 366 | C26H54  | 000630-01-3 | 90   |
| 3    |    | Octadecane, 2-methyl- | 268 | C19H40  | 001560-88-9 | 90   |
| 4    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 90   |
| 5    |    | Heptadecane           | 240 | C17H36  | 000629-78-7 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112909.D  
Acq On : 7 Mar 2019 4:22  
Operator : JU/SJ  
Sample : K1705-15  
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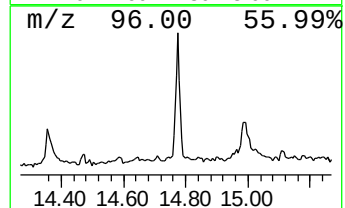
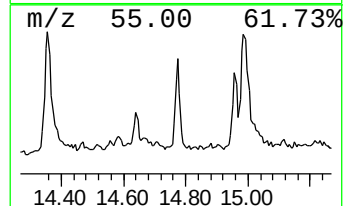
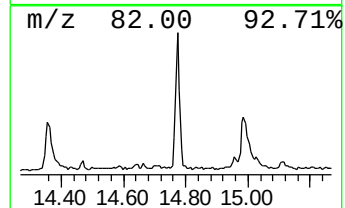
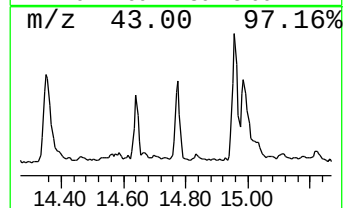
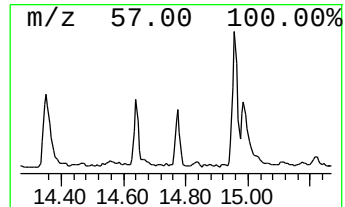
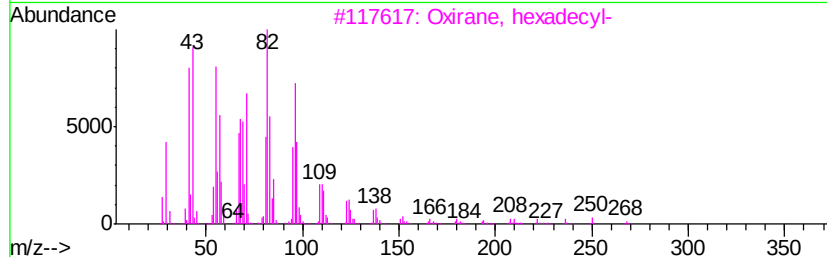
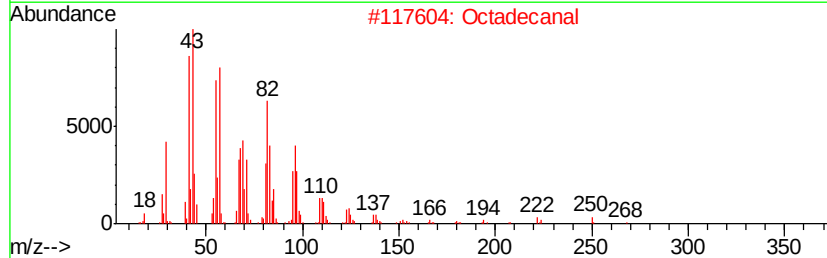
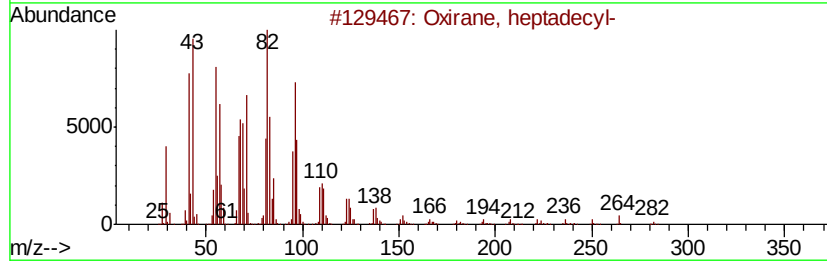
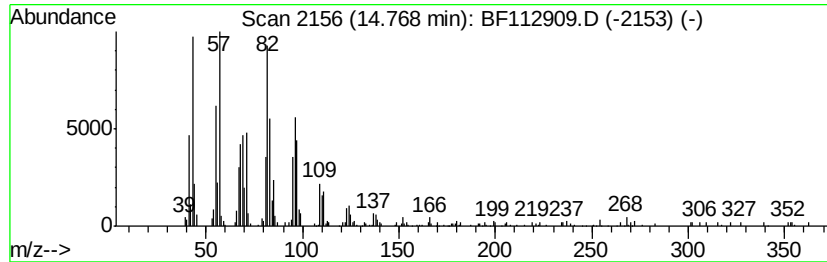
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 Oxirane, heptadecyl- Concentration Rank 9

| R.T.      | EstConc              | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------------|--------|------------------|-------------|------|
| 14.77     | 4.81 ng              | 294443 | Perylene-d12     | 15.26       |      |
| Hit# of 5 | Tentative ID         | MW     | MolForm          | CAS#        | Qual |
| 1         | Oxirane, heptadecyl- | 282    | C19H38O          | 067860-04-2 | 91   |
| 2         | Octadecanal          | 268    | C18H36O          | 000638-66-4 | 91   |
| 3         | Oxirane, hexadecyl-  | 268    | C18H36O          | 007390-81-0 | 91   |
| 4         | 17-Octadecenal       | 266    | C18H34O          | 056554-86-0 | 91   |
| 5         | 12-Octadecenal       | 266    | C18H34O          | 056554-91-7 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112909.D  
Acq On : 7 Mar 2019 4:22  
Operator : JU/SJ  
Sample : K1705-15  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

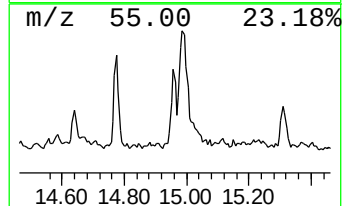
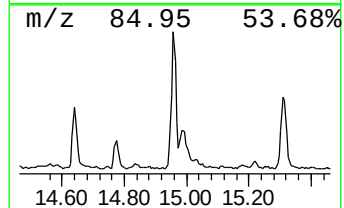
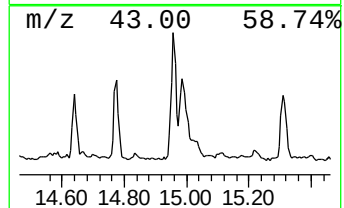
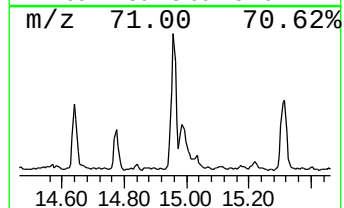
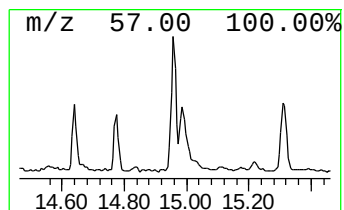
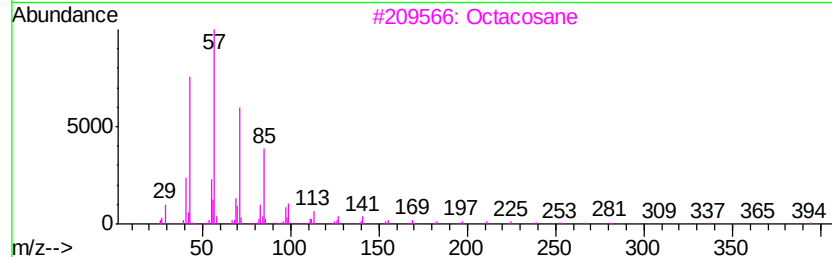
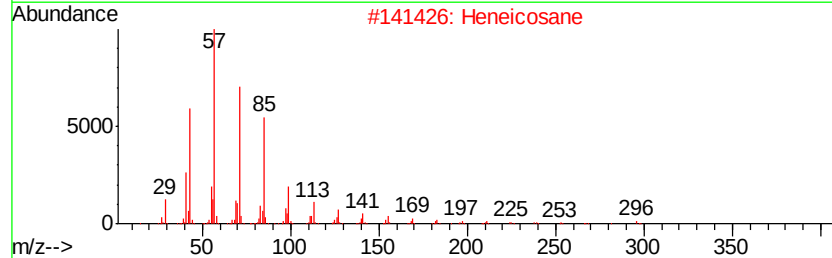
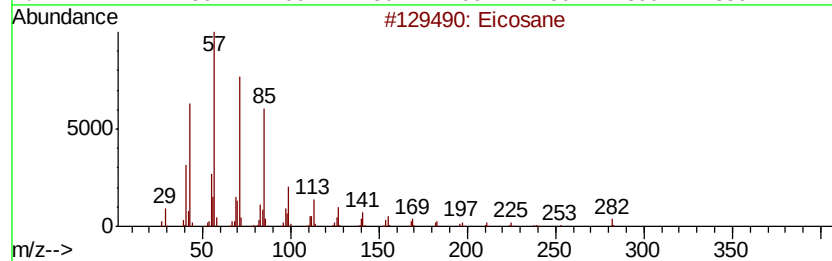
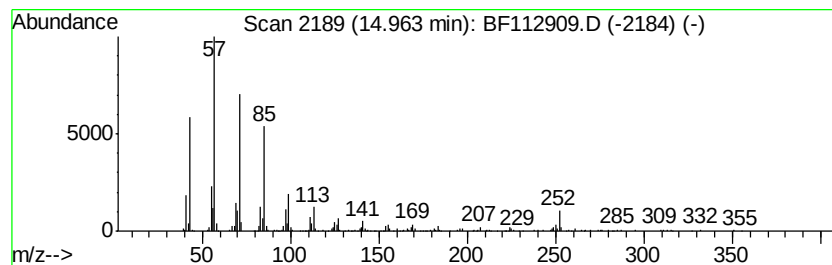
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 Eicosane Concentration Rank 8

| R.T.    | EstConc               | Area         | Relative to ISTD | R.T.      |
|---------|-----------------------|--------------|------------------|-----------|
| 14.96   | 5.70 ng               | 348655       | Perylene-d12     | 15.26     |
| Hit# of | 5                     | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Eicosane              | 282 C20H42   | 000112-95-8      | 98        |
| 2       | Heneicosane           | 296 C21H44   | 000629-94-7      | 91        |
| 3       | Octacosane            | 394 C28H58   | 000630-02-4      | 90        |
| 4       | Hexadecane, 2-methyl- | 240 C17H36   | 001560-92-5      | 87        |
| 5       | Nonadecane            | 268 C19H40   | 000629-92-5      | 86        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
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Operator : JU/SJ  
Sample : K1705-15  
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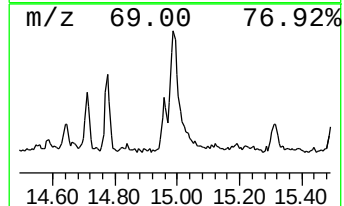
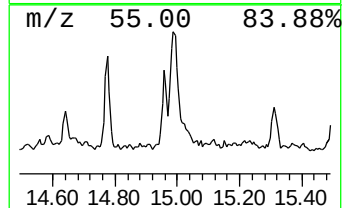
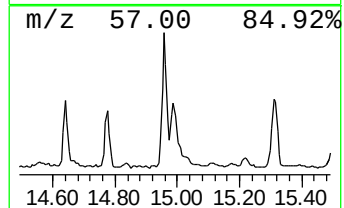
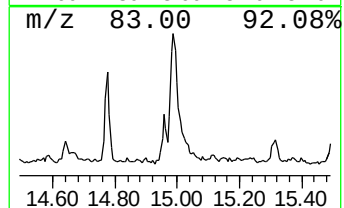
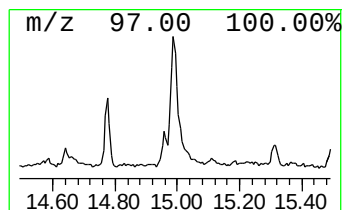
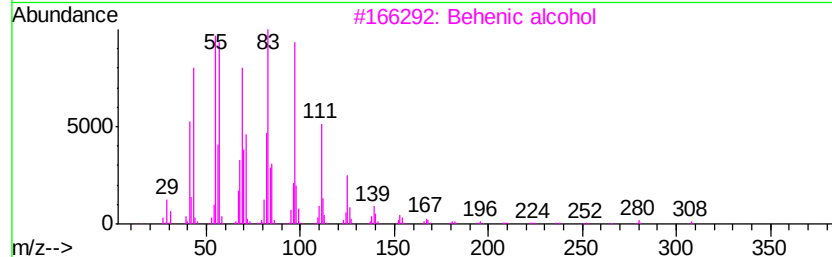
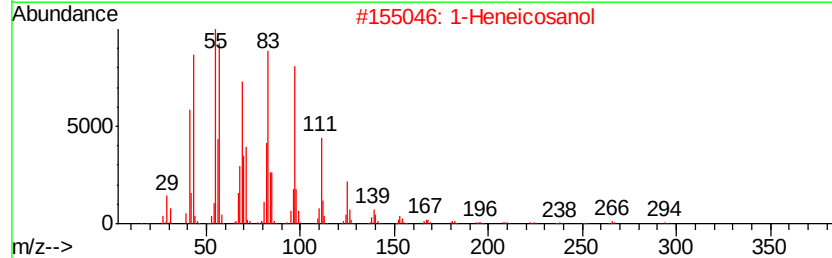
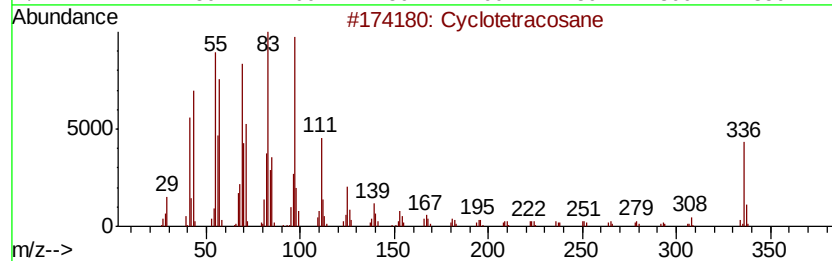
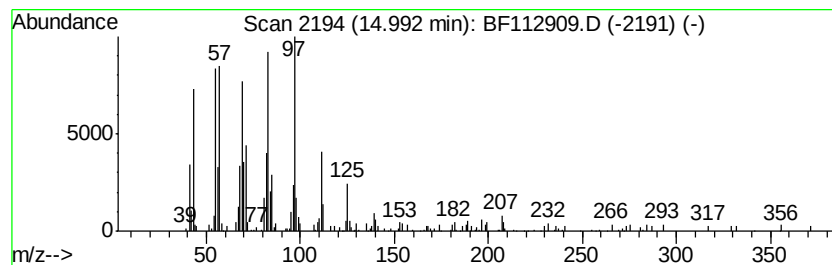
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 Cyclotetracosane Concentration Rank 6

| R.T.      | EstConc          | Area   | Relative to ISTD |             | R.T.  |
|-----------|------------------|--------|------------------|-------------|-------|
| 14.99     | 6.70 ng          | 410069 | Perylene-d12     |             | 15.26 |
| Hit# of 5 | Tentative ID     | MW     | MolForm          | CAS#        | Qual  |
| 1         | Cyclotetracosane | 336    | C24H48           | 000297-03-0 | 98    |
| 2         | 1-Heneicosanol   | 312    | C21H44O          | 015594-90-8 | 94    |
| 3         | Behenic alcohol  | 326    | C22H46O          | 000661-19-8 | 93    |
| 4         | n-Tetracosanol-1 | 354    | C24H50O          | 000506-51-4 | 93    |
| 5         | 1-Nonadecene     | 266    | C19H38           | 018435-45-5 | 91    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112909.D  
Acq On : 7 Mar 2019 4:22  
Operator : JU/SJ  
Sample : K1705-15  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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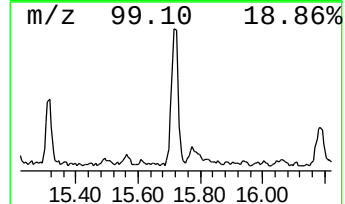
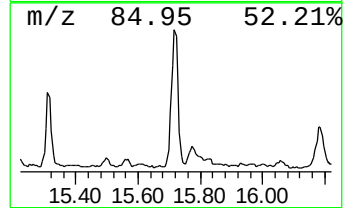
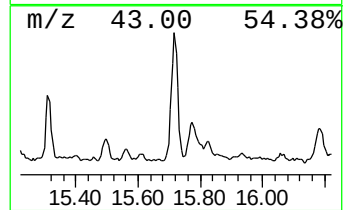
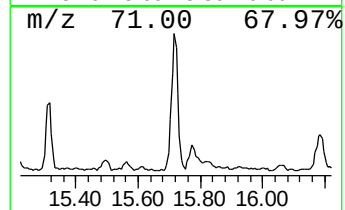
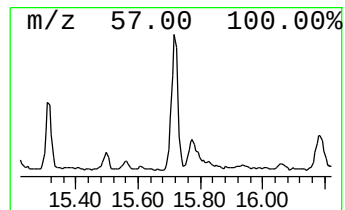
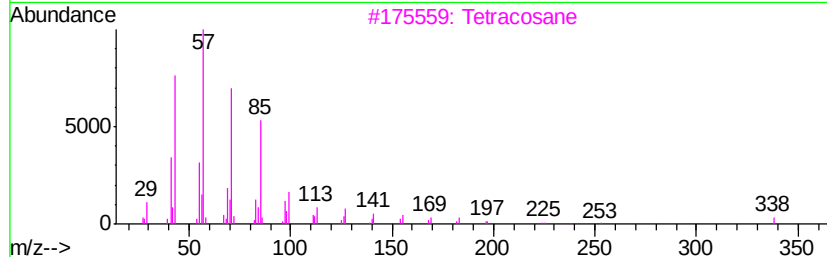
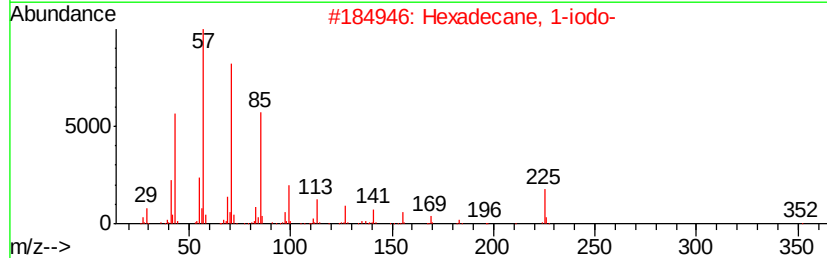
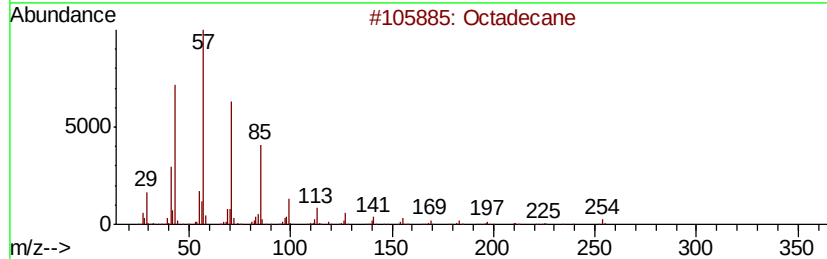
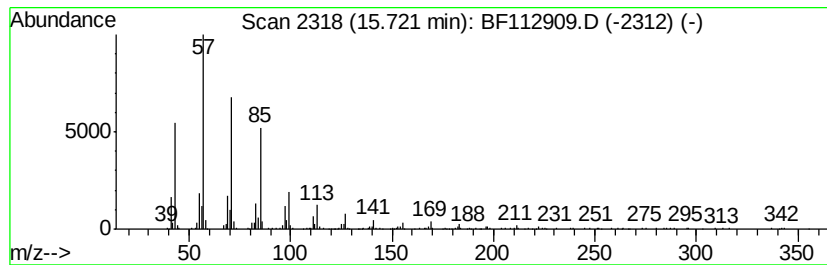
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 Octadecane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.72 | 7.24 ng | 442771 | Perylene-d12     | 15.26 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Octadecane          | 254 | C18H38  | 000593-45-3 | 96   |
| 2    |    | Hexadecane, 1-iodo- | 352 | C16H33I | 000544-77-4 | 94   |
| 3    |    | Tetracosane         | 338 | C24H50  | 000646-31-1 | 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\BF030619\  
Data File : BF112909.D  
Acq On : 7 Mar 2019 4:22  
Operator : JU/SJ  
Sample : K1705-15  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

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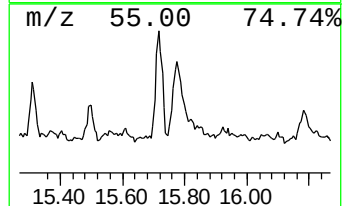
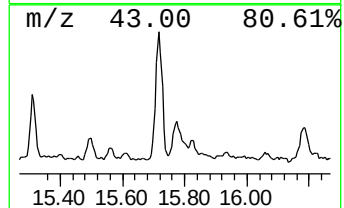
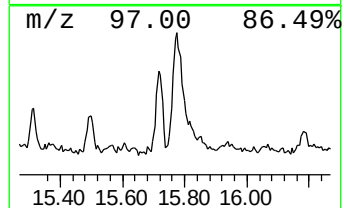
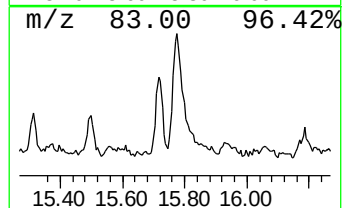
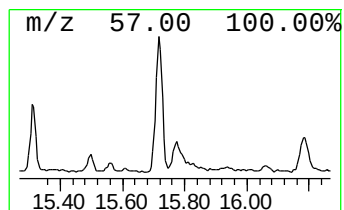
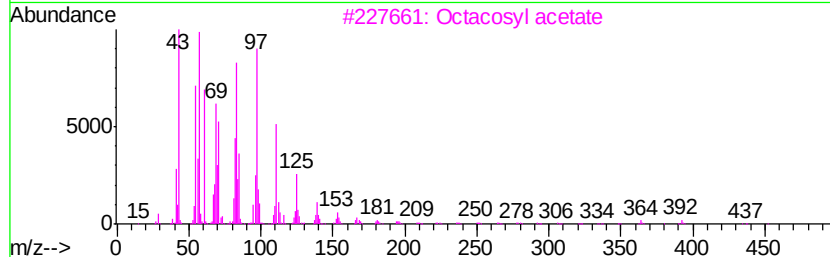
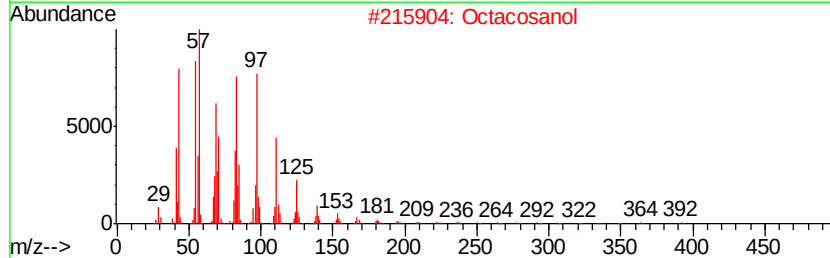
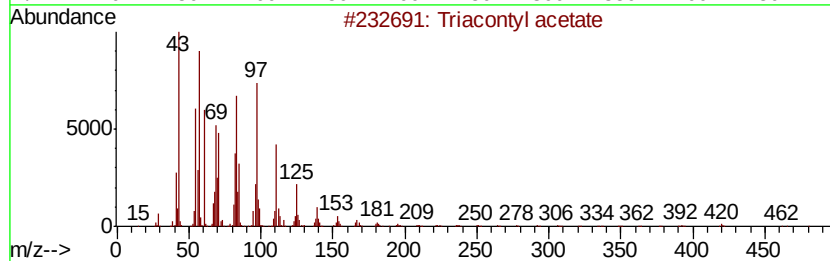
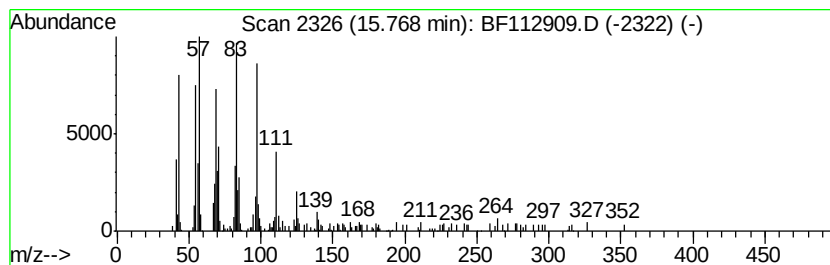
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Triacontyl acetate Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.77 | 4.64 ng | 283947 | Perylene-d12     | 15.26 |

| Hit# | of | 5 | Tentative ID       | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------|-----|----------|-------------|------|
| 1    |    |   | Triacontyl acetate | 480 | C32H64O2 | 041755-58-2 | 94   |
| 2    |    |   | Octacosanol        | 410 | C28H58O  | 000557-61-9 | 94   |
| 3    |    |   | Octacosyl acetate  | 452 | C30H60O2 | 018206-97-8 | 93   |
| 4    |    |   | n-Tetracosanol-1   | 354 | C24H50O  | 000506-51-4 | 93   |
| 5    |    |   | 1-Heptacosanol     | 396 | C27H56O  | 002004-39-9 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112909.D  
Acq On : 7 Mar 2019 4:22  
Operator : JU/SJ  
Sample : K1705-15  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

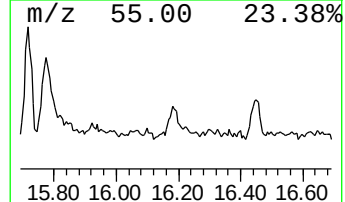
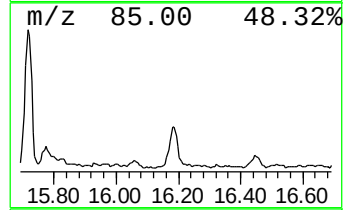
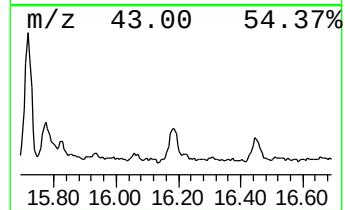
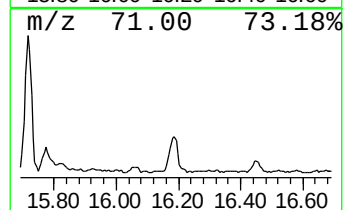
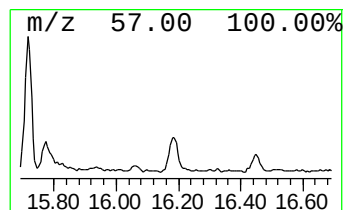
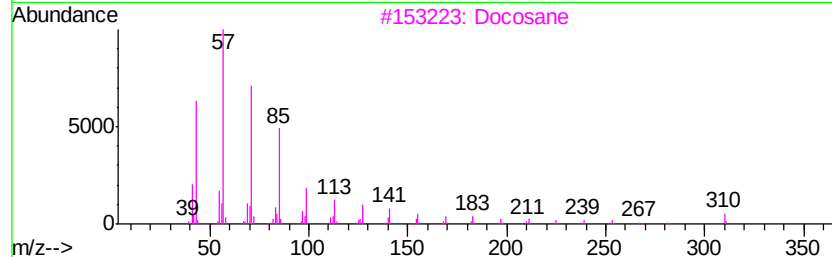
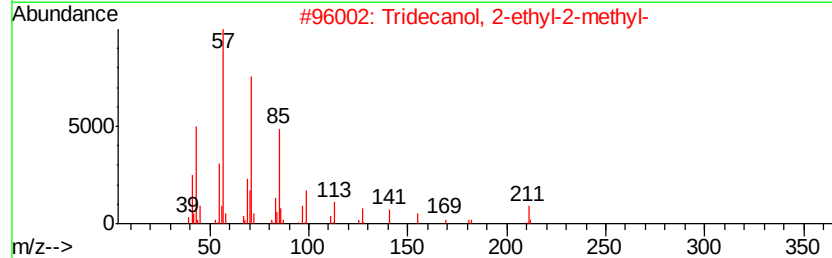
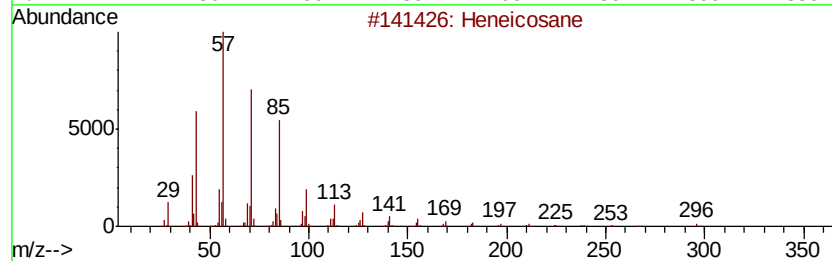
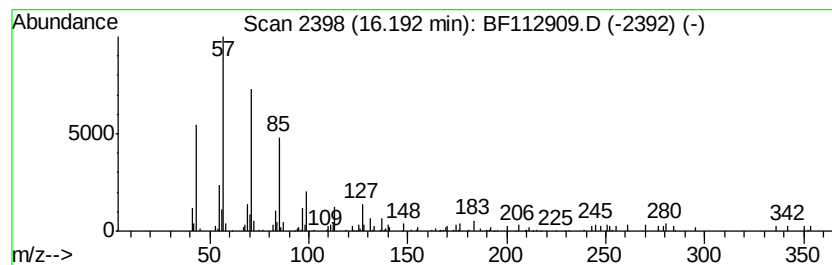
Instrument :  
BNA\_F  
ClientSampleId :  
PST-028-B097-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.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 15 Heneicosane Concentration Rank 17

| R.T.    | EstConc                       | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------|--------------|------------------|-----------|
| 16.19   | 2.15 ng                       | 131642       | Perylene-d12     | 15.26     |
| Hit# of | 5                             | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Heneicosane                   | 296 C21H44   | 000629-94-7      | 90        |
| 2       | Tridecanol, 2-ethyl-2-methyl- | 242 C16H34O  | 1000115-66-1     | 86        |
| 3       | Docosane                      | 310 C22H44   | 000629-97-0      | 86        |
| 4       | Dodecane, 1-iodo-             | 296 C12H25I  | 004292-19-7      | 72        |
| 5       | Octadecane, 1-iodo-           | 380 C18H37I  | 000629-93-6      | 72        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112909.D  
Acq On : 7 Mar 2019 4:22  
Operator : JU/SJ  
Sample : K1705-15  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-028-B097-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

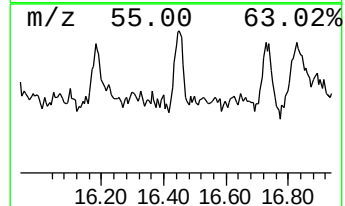
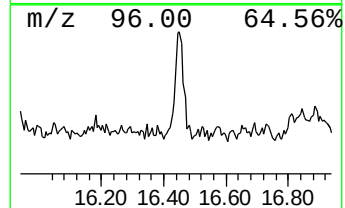
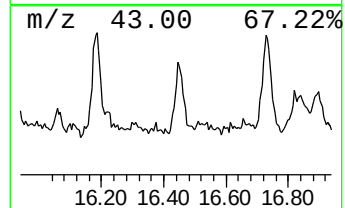
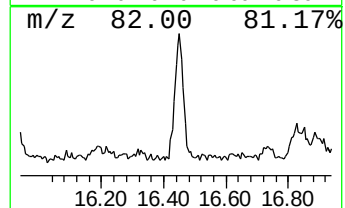
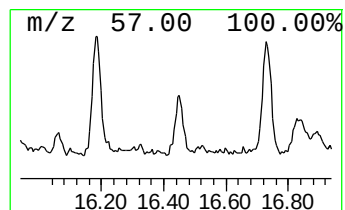
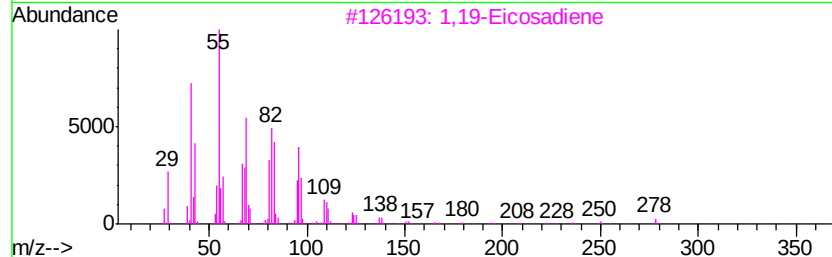
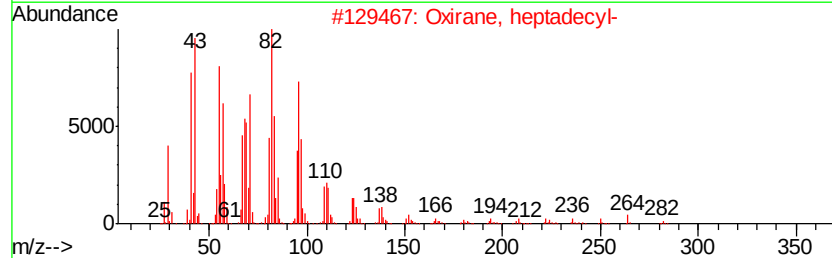
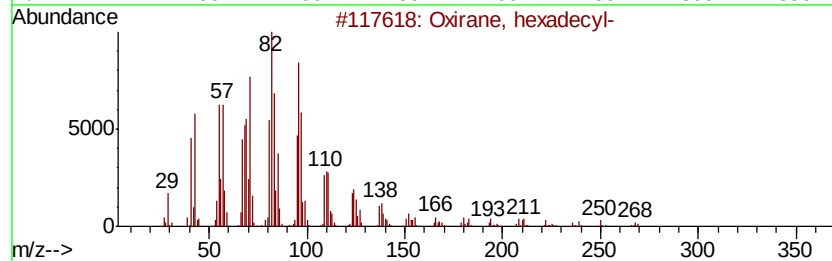
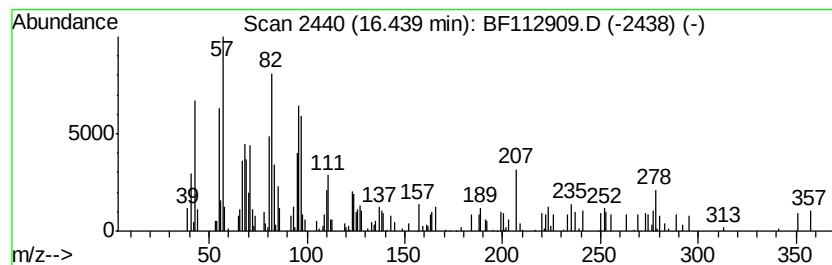
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Oxirane, hexadecyl- Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.44 | 2.35 ng | 144078 | Perylene-d12     | 15.26 |

| Hit# | of | Tentative ID              | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------|-----|----------|-------------|------|
| 1    | 5  | Oxirane, hexadecyl-       | 268 | C18H36O  | 007390-81-0 | 76   |
| 2    |    | Oxirane, heptadecyl-      | 282 | C19H38O  | 067860-04-2 | 53   |
| 3    |    | 1,19-Eicosadiene          | 278 | C20H38   | 014811-95-1 | 49   |
| 4    |    | Octadecanal               | 268 | C18H36O  | 000638-66-4 | 46   |
| 5    |    | (Z)-14-Tricosenyl formate | 366 | C24H46O2 | 077899-10-6 | 43   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030619\  
Data File : BF112909.D  
Acq On : 7 Mar 2019 4:22  
Operator : JU/SJ  
Sample : K1705-15  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PST-028-B097-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.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 |
| unknown6.50          | 6.50  | 65.0    | ng    | 3284770  | 1                     | 6.73  | 1010810 | 20.0 |
| n-Hexadecanoic acid  | 11.77 | 9.9     | ng    | 671332   | 4                     | 11.24 | 1362040 | 20.0 |
| Octadecanoic acid    | 12.56 | 2.9     | ng    | 225837   | 5                     | 13.86 | 1568310 | 20.0 |
| 1-Heneicosanol       | 13.72 | 8.7     | ng    | 681910   | 5                     | 13.86 | 1568310 | 20.0 |
| 1-Heneicosyl formate | 14.36 | 6.3     | ng    | 490869   | 5                     | 13.86 | 1568310 | 20.0 |
| Pentacosane          | 14.64 | 2.6     | ng    | 156922   | 6                     | 15.26 | 1223860 | 20.0 |
| Oxirane, heptadecyl- | 14.77 | 4.8     | ng    | 294443   | 6                     | 15.26 | 1223860 | 20.0 |
| Eicosane             | 14.96 | 5.7     | ng    | 348655   | 6                     | 15.26 | 1223860 | 20.0 |
| Cyclotetracosane     | 14.99 | 6.7     | ng    | 410069   | 6                     | 15.26 | 1223860 | 20.0 |
| Octadecane           | 15.72 | 7.2     | ng    | 442771   | 6                     | 15.26 | 1223860 | 20.0 |
| Triacetyl acetate    | 15.77 | 4.6     | ng    | 283947   | 6                     | 15.26 | 1223860 | 20.0 |
| Heneicosane          | 16.19 | 2.1     | ng    | 131642   | 6                     | 15.26 | 1223860 | 20.0 |
| Oxirane, hexadecyl-  | 16.44 | 2.4     | ng    | 144078   | 6                     | 15.26 | 1223860 | 20.0 |