

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051218\  
 Data File : BF105338.D  
 Acq On : 12 May 2018 15:36  
 Operator : JU/SJ  
 Sample : J2870-09  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-A

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:\HPCHEM1\BNA\_F\METHODS\8270-BF051018.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         | 5.010       | 492           | 497         | 506          | rBV      | 180211         | 262018        | 5.22%           | 0.609%        |
| 2         | 5.404       | 559           | 564         | 593          | rBV      | 3457396        | 4619916       | 91.96%          | 10.737%       |
| 3         | 6.428       | 733           | 738         | 756          | rBV      | 3548379        | 4724933       | 94.05%          | 10.981%       |
| 4         | 6.563       | 756           | 761         | 776          | rVV      | 3984209        | 4589242       | 91.35%          | 10.666%       |
| 5         | 6.786       | 796           | 799         | 807          | rBV      | 914321         | 888661        | 17.69%          | 2.065%        |
| 6         | 6.845       | 807           | 809         | 817          | rVB      | 60035          | 58848         | 1.17%           | 0.137%        |
| 7         | 6.945       | 822           | 826         | 851          | rVB      | 3693390        | 3581675       | 71.29%          | 8.324%        |
| 8         | 7.357       | 890           | 896         | 906          | rBV      | 2788592        | 3058850       | 60.88%          | 7.109%        |
| 9         | 8.069       | 1013          | 1017        | 1025         | rBV      | 1386966        | 1253258       | 24.95%          | 2.913%        |
| 10        | 9.145       | 1195          | 1200        | 1210         | rBV      | 4619861        | 5024003       | 100.00%         | 11.676%       |
| 11        | 9.539       | 1263          | 1267        | 1275         | rBV      | 733457         | 647374        | 12.89%          | 1.505%        |
| 12        | 9.751       | 1296          | 1303        | 1308         | rBV2     | 58227          | 90612         | 1.80%           | 0.211%        |
| 13        | 9.822       | 1311          | 1315        | 1326         | rVB      | 1530641        | 1383662       | 27.54%          | 3.216%        |
| 14        | 10.127      | 1362          | 1367        | 1375         | rBV      | 34430          | 80830         | 1.61%           | 0.188%        |
| 15        | 10.239      | 1381          | 1386        | 1391         | rVB2     | 63065          | 118161        | 2.35%           | 0.275%        |
| 16        | 10.469      | 1420          | 1425        | 1432         | rBV      | 31541          | 53418         | 1.06%           | 0.124%        |
| 17        | 10.616      | 1445          | 1450        | 1460         | rBV      | 3220101        | 3411557       | 67.91%          | 7.929%        |
| 18        | 10.727      | 1466          | 1469        | 1479         | rVB3     | 66860          | 113114        | 2.25%           | 0.263%        |
| 19        | 11.310      | 1564          | 1568        | 1576         | rBV      | 1487809        | 1434072       | 28.54%          | 3.333%        |
| 20        | 11.839      | 1654          | 1658        | 1667         | rBV      | 445511         | 461525        | 9.19%           | 1.073%        |
| 21        | 12.521      | 1771          | 1774        | 1779         | rBV      | 85996          | 80162         | 1.60%           | 0.186%        |
| 22        | 12.621      | 1788          | 1791        | 1797         | rBV      | 122344         | 132749        | 2.64%           | 0.309%        |
| 23        | 12.751      | 1810          | 1813        | 1815         | rBV      | 66302          | 58420         | 1.16%           | 0.136%        |
| 24        | 12.904      | 1834          | 1839        | 1842         | rBV      | 4176276        | 4342741       | 86.44%          | 10.093%       |
| 25        | 13.380      | 1917          | 1920        | 1925         | rVB      | 96846          | 97808         | 1.95%           | 0.227%        |
| 26        | 13.815      | 1991          | 1994        | 1999         | rBV2     | 188004         | 217797        | 4.34%           | 0.506%        |
| 27        | 13.986      | 2018          | 2023        | 2034         | rVB      | 920263         | 1028944       | 20.48%          | 2.391%        |
| 28        | 14.504      | 2108          | 2111        | 2115         | rBV2     | 97161          | 131023        | 2.61%           | 0.305%        |
| 29        | 15.509      | 2278          | 2282        | 2295         | rVB      | 726117         | 1082455       | 21.55%          | 2.516%        |

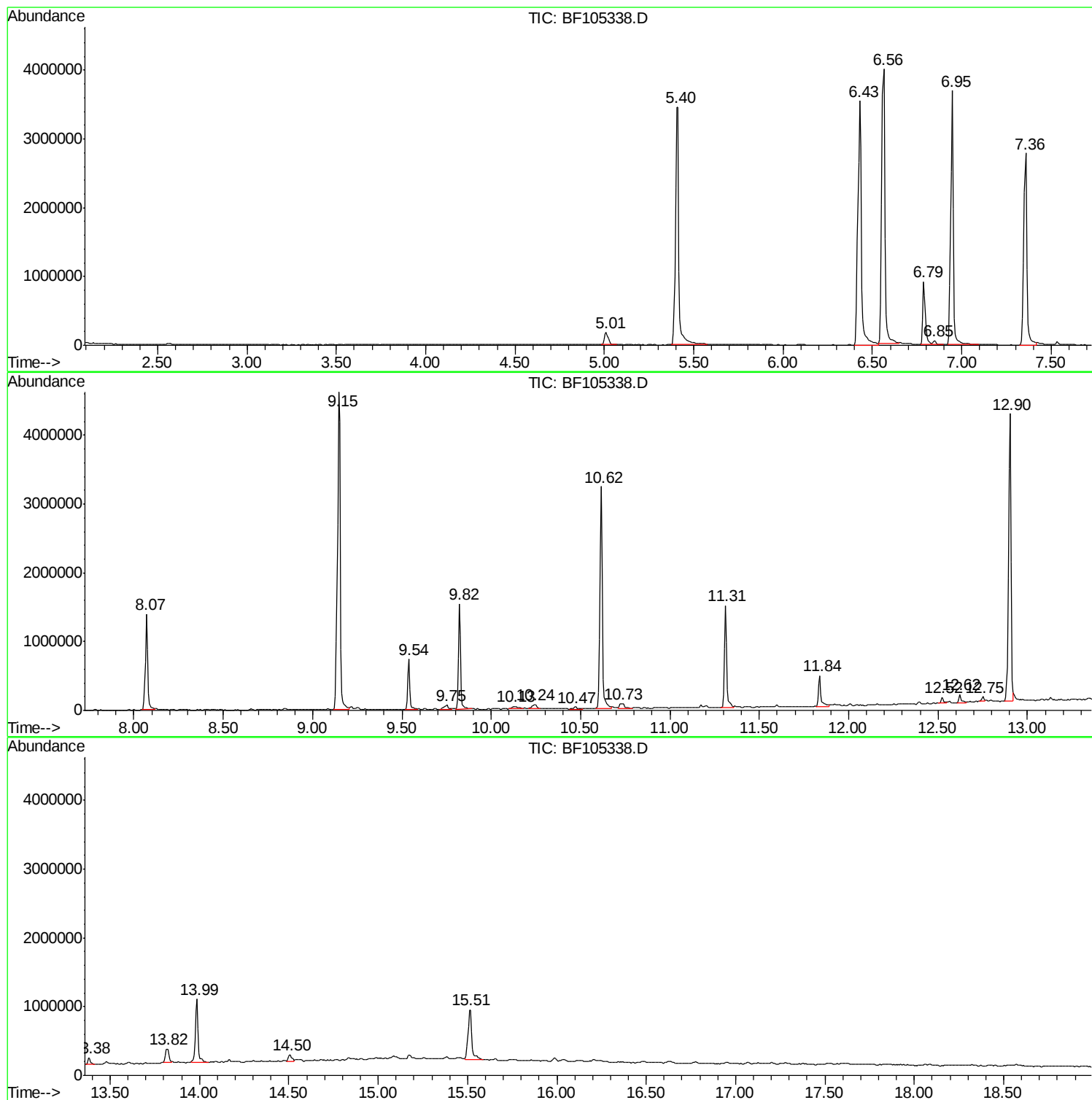
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BNA\_F  
ClientSampled :  
SP-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF051018.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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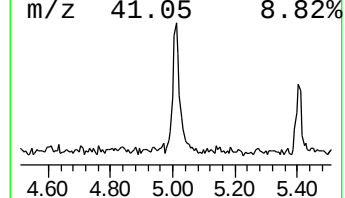
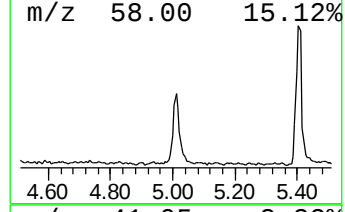
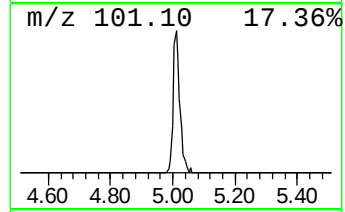
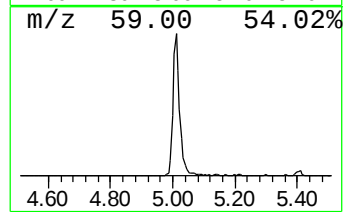
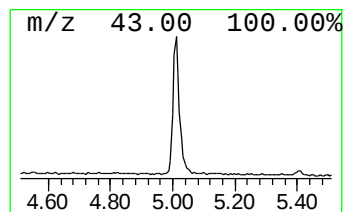
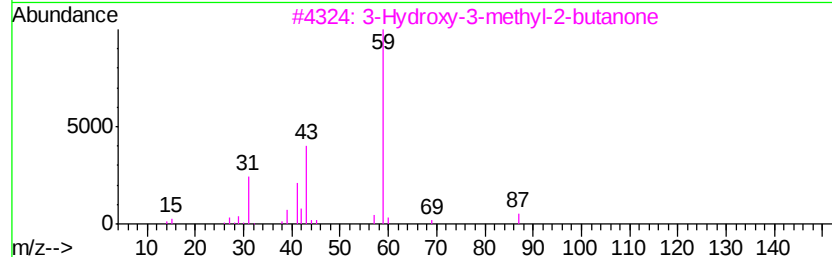
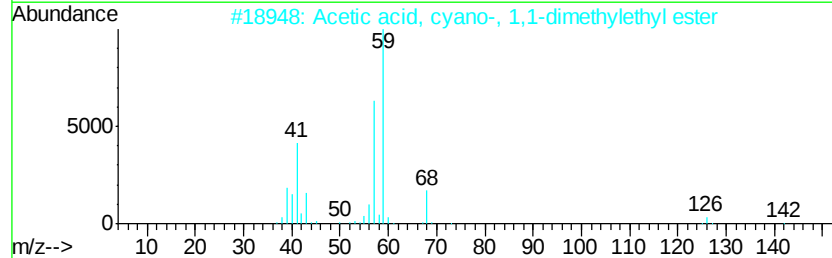
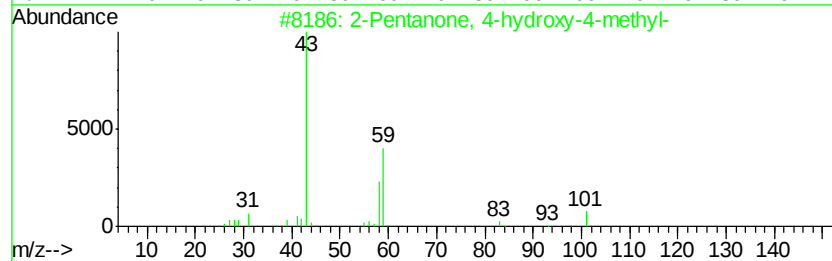
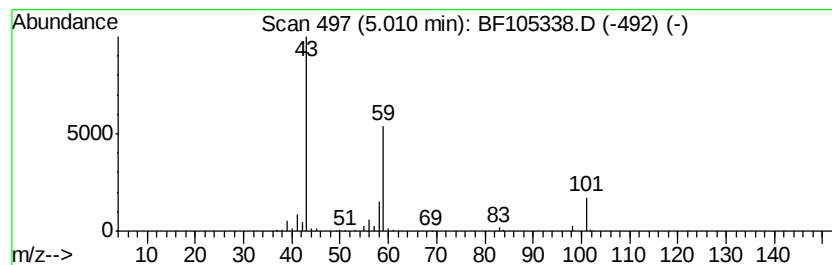
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.01 | 5.90 ng | 262018 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# of | 5                                    | Tentative ID | MW       | MolForm      | CAS# | Qual |
|---------|--------------------------------------|--------------|----------|--------------|------|------|
| 1       | 2-Pentanone, 4-hydroxy-4-methyl-     | 116          | C6H12O2  | 000123-42-2  | 56   |      |
| 2       | Acetic acid, cyano-, 1,1-dimethyl... | 141          | C7H11NO2 | 001116-98-9  | 25   |      |
| 3       | 3-Hydroxy-3-methyl-2-butanone        | 102          | C5H10O2  | 000115-22-0  | 23   |      |
| 4       | 1-Propen-2-ol, acetate               | 100          | C5H8O2   | 000108-22-5  | 10   |      |
| 5       | n-Propyl t-butyl ether               | 116          | C7H16O   | 1000334-81-9 | 9    |      |



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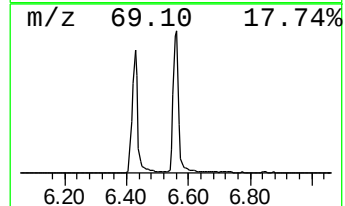
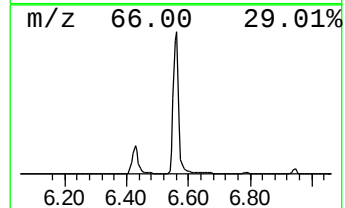
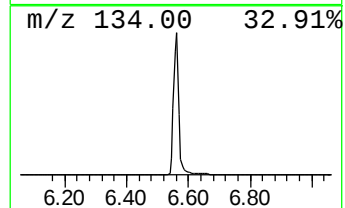
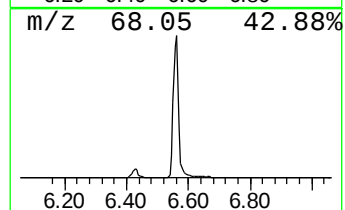
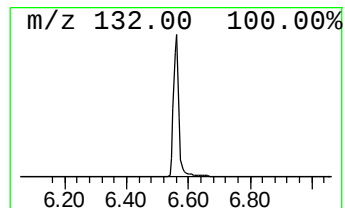
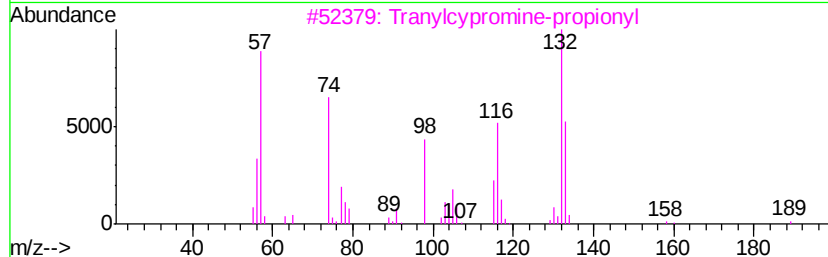
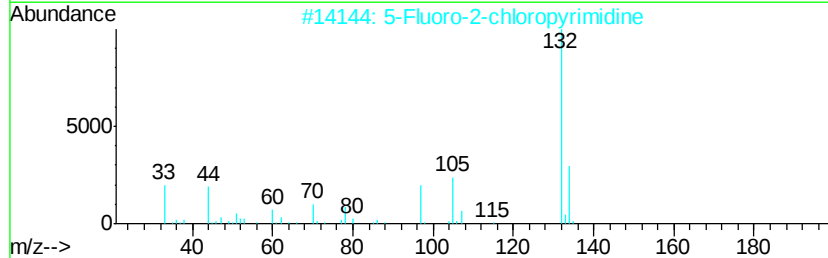
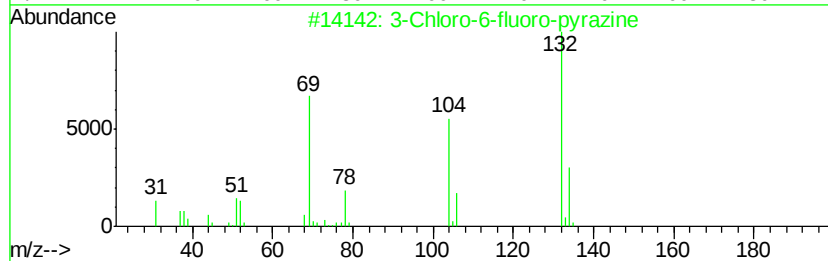
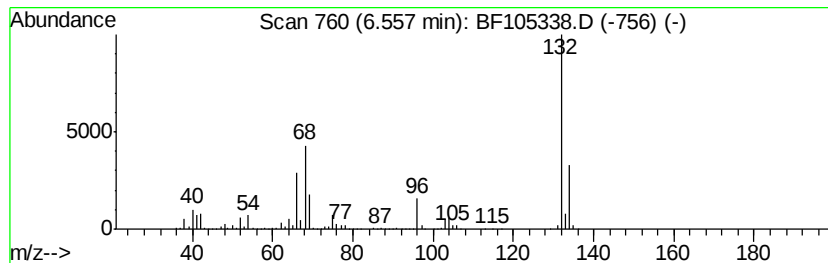
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF051018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown6.56 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 6.56 | 103.28 ng | 4589240 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 3    |    | Tranvlcyproline-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



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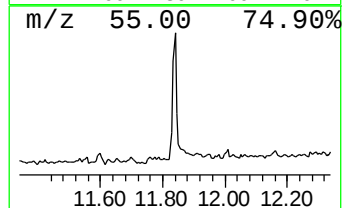
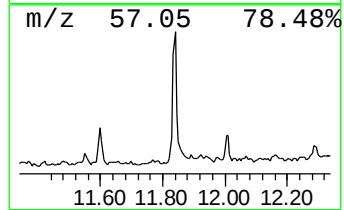
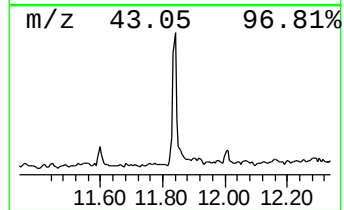
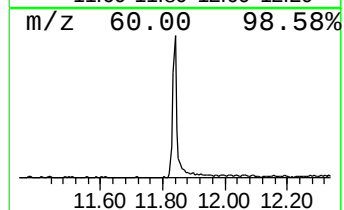
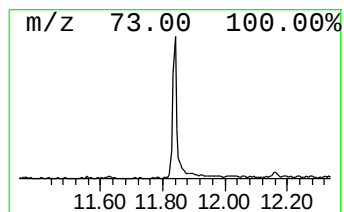
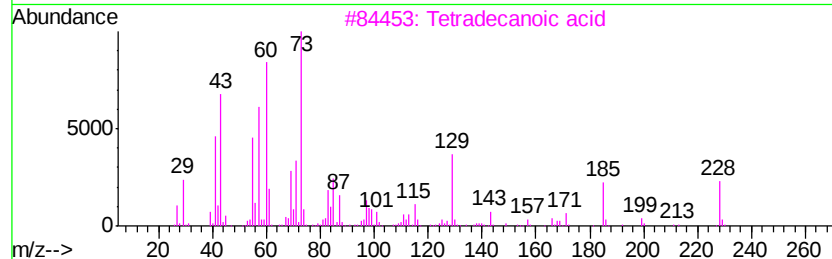
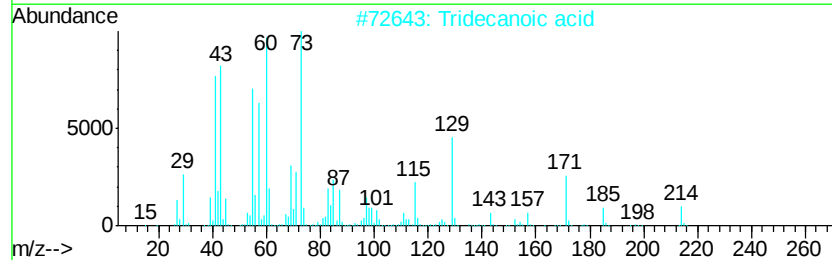
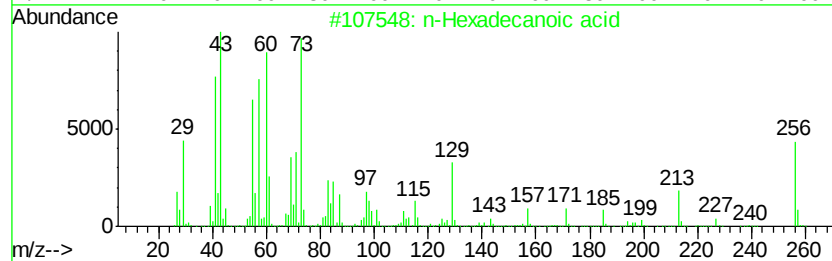
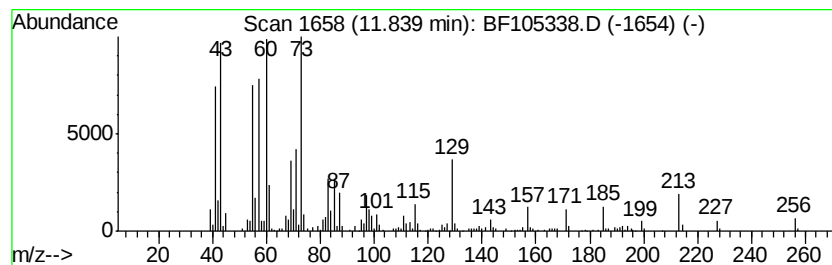
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.84 | 6.44 ng | 461525 | Phenanthrene-d10 | 11.31 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98   |
| 2       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 89   |
| 3       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 83   |
| 4       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 76   |
| 5       |   | Undecanoic acid     | 186 | C11H22O2 | 000112-37-8 | 74   |



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SP-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF051018.M  
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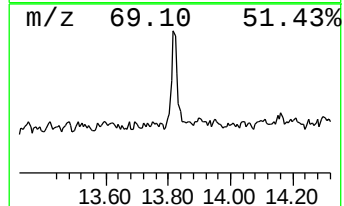
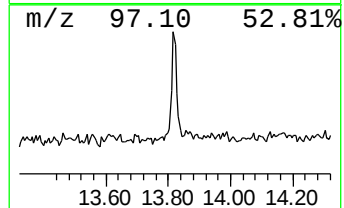
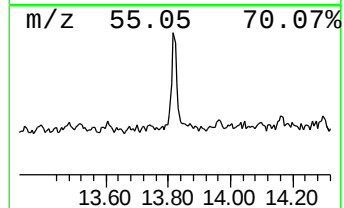
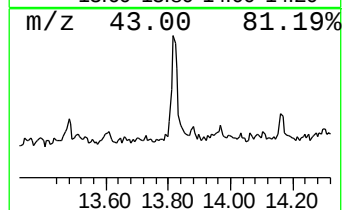
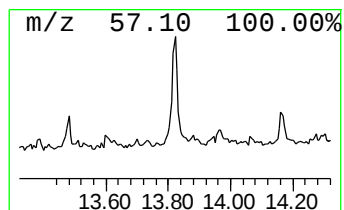
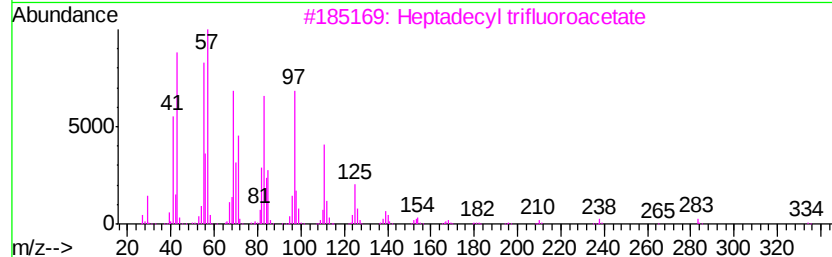
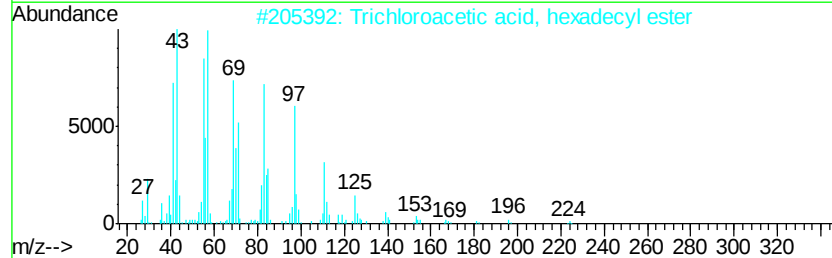
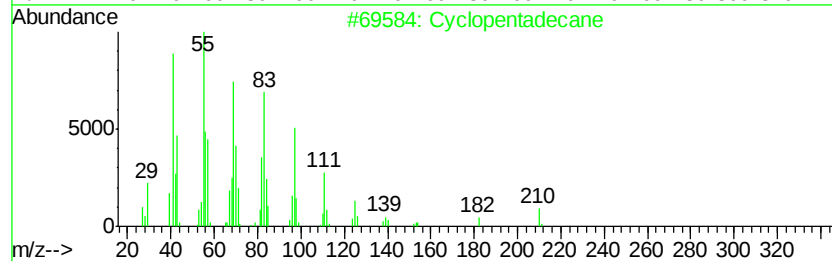
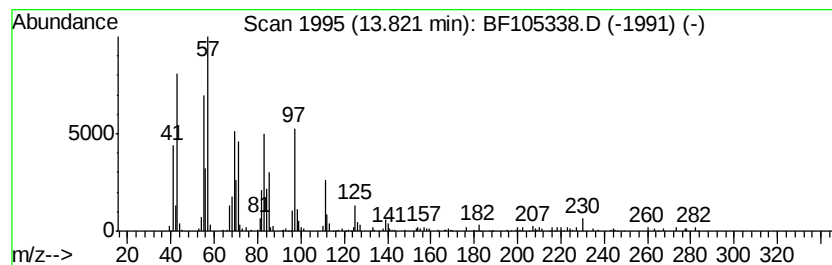
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Peak Number 5 Cyclopentadecane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.82 | 4.23 ng | 217797 | Chrysene-d12     | 13.99 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|---------|---|-------------------------------------|-----|-------------|--------------|------|
| 1       |   | Cyclopentadecane                    | 210 | C15H30      | 000295-48-7  | 96   |
| 2       |   | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1  | 94   |
| 3       |   | Heptadecyl trifluoroacetate         | 352 | C19H35F3O2  | 1000351-87-0 | 91   |
| 4       |   | 1-Nonadecene                        | 266 | C19H38      | 018435-45-5  | 91   |
| 5       |   | Cycloeicosane                       | 280 | C20H40      | 000296-56-0  | 91   |



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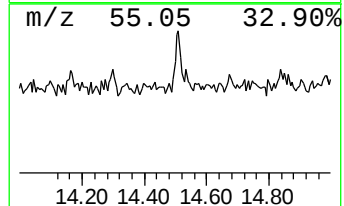
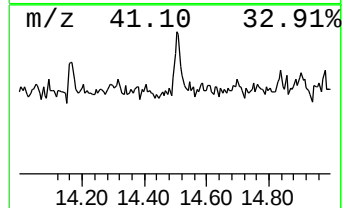
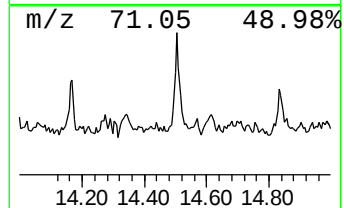
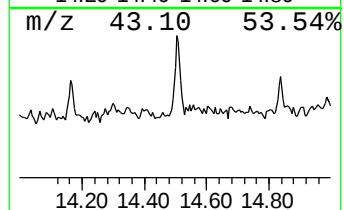
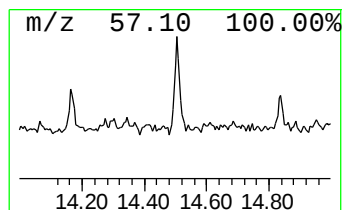
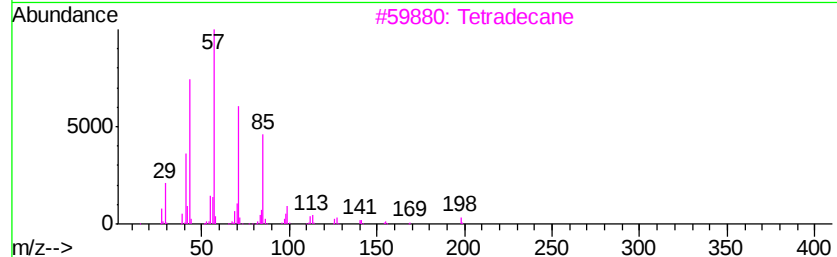
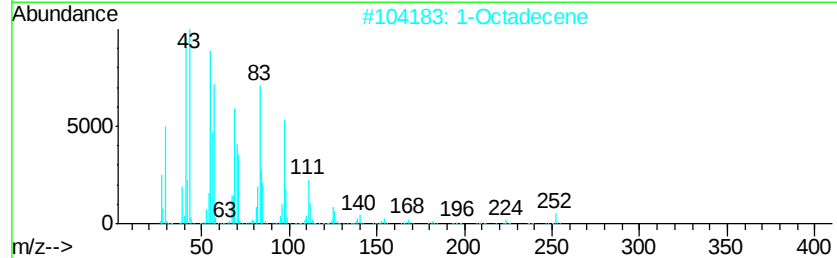
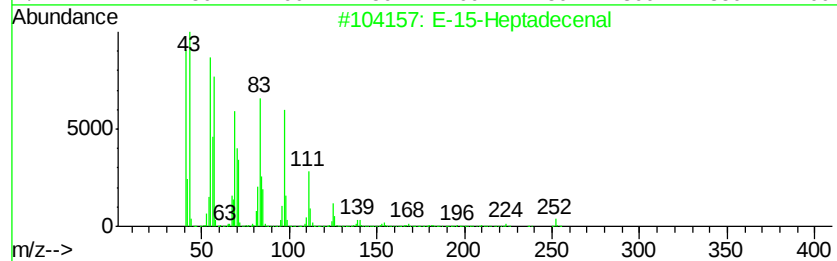
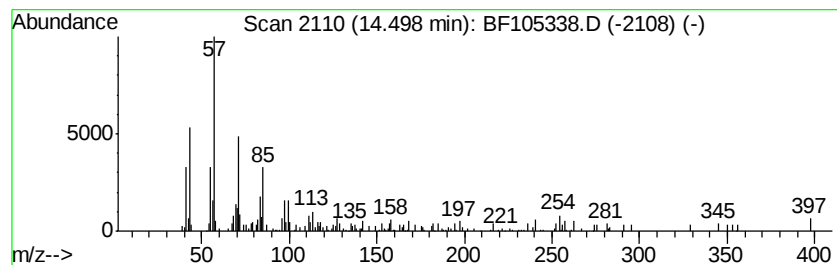
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 E-15-Heptadecenal Concentration Rank 6

| R.T.  | EstConc           | Area   | Relative to ISTD |     | R.T.    |              |      |
|-------|-------------------|--------|------------------|-----|---------|--------------|------|
| 14.50 | 2.55 ng           | 131023 | Chrysene-d12     |     | 13.99   |              |      |
| Hit#  | of                | 5      | Tentative ID     | MW  | MolForm | CAS#         | Qual |
| 1     | E-15-Heptadecenal |        |                  | 252 | C17H32O | 1000130-97-9 | 92   |
| 2     | 1-Octadecene      |        |                  | 252 | C18H36  | 000112-88-9  | 92   |
| 3     | Tetradecane       |        |                  | 198 | C14H30  | 000629-59-4  | 91   |
| 4     | Tritetracontane   |        |                  | 605 | C43H88  | 007098-21-7  | 90   |
| 5     | Heptadecane       |        |                  | 240 | C17H36  | 000629-78-7  | 89   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051218\  
Data File : BF105338.D  
Acq On : 12 May 2018 15:36  
Operator : JU/SJ  
Sample : J2870-09  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF051018.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 |
| 2-Pentanone, 4-hy... | 5.01  | 5.9     | ng    | 262018   | 1                     | 6.79  | 888661  | 20.0 |
| unknown6.56          | 6.56  | 103.3   | ng    | 4589240  | 1                     | 6.79  | 888661  | 20.0 |
| n-Hexadecanoic acid  | 11.84 | 6.4     | ng    | 461525   | 4                     | 11.31 | 1434070 | 20.0 |
| Cyclopentadecane     | 13.82 | 4.2     | ng    | 217797   | 5                     | 13.99 | 1028940 | 20.0 |
| E-15-Heptadecenal    | 14.50 | 2.5     | ng    | 131023   | 5                     | 13.99 | 1028940 | 20.0 |