

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF111117\  
 Data File : BF100451.D  
 Acq On : 11 Nov 2017 19:57  
 Operator : SJ/JU  
 Sample : I6399-24  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-12

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:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.204       | 16            | 20          | 31           | rVB      | 92045          | 155446        | 4.95%           | 0.551%        |
| 2         | 2.316       | 36            | 39          | 62           | rVB      | 125383         | 241244        | 7.68%           | 0.855%        |
| 3         | 5.122       | 513           | 516         | 526          | rBV      | 242490         | 259022        | 8.24%           | 0.918%        |
| 4         | 5.516       | 579           | 583         | 587          | rBV      | 1648124        | 1562772       | 49.73%          | 5.537%        |
| 5         | 5.622       | 598           | 601         | 605          | rVB      | 208420         | 168262        | 5.35%           | 0.596%        |
| 6         | 6.522       | 750           | 754         | 762          | rBV      | 1112574        | 1022525       | 32.54%          | 3.623%        |
| 7         | 6.669       | 775           | 779         | 783          | rBV      | 2587775        | 2624275       | 83.50%          | 9.298%        |
| 8         | 6.904       | 815           | 819         | 822          | rBV      | 1883579        | 1565035       | 49.80%          | 5.545%        |
| 9         | 7.063       | 841           | 846         | 849          | rVB      | 2837615        | 2566980       | 81.68%          | 9.095%        |
| 10        | 7.463       | 908           | 914         | 918          | rBV      | 1935062        | 2057639       | 65.47%          | 7.291%        |
| 11        | 8.051       | 1011          | 1014        | 1018         | rBV      | 51799          | 44598         | 1.42%           | 0.158%        |
| 12        | 8.186       | 1033          | 1037        | 1040         | rBV      | 2205130        | 1823379       | 58.02%          | 6.461%        |
| 13        | 8.375       | 1064          | 1069        | 1072         | rBV      | 145550         | 112290        | 3.57%           | 0.398%        |
| 14        | 8.739       | 1128          | 1131        | 1135         | rVB      | 53201          | 46608         | 1.48%           | 0.165%        |
| 15        | 9.080       | 1185          | 1189        | 1195         | rBV      | 267655         | 244477        | 7.78%           | 0.866%        |
| 16        | 9.257       | 1215          | 1219        | 1223         | rBV      | 3216347        | 3142708       | 100.00%         | 11.135%       |
| 17        | 9.651       | 1283          | 1286        | 1293         | rVB      | 228875         | 208422        | 6.63%           | 0.738%        |
| 18        | 9.939       | 1331          | 1335        | 1339         | rBV2     | 1714649        | 1590015       | 50.59%          | 5.634%        |
| 19        | 10.310      | 1395          | 1398        | 1401         | rVB      | 200214         | 156376        | 4.98%           | 0.554%        |
| 20        | 10.651      | 1452          | 1456        | 1463         | rVB      | 120451         | 104606        | 3.33%           | 0.371%        |
| 21        | 10.727      | 1465          | 1469        | 1472         | rBV      | 1574620        | 1369560       | 43.58%          | 4.853%        |
| 22        | 11.427      | 1584          | 1588        | 1591         | rBV      | 1705592        | 1396444       | 44.43%          | 4.948%        |
| 23        | 11.592      | 1612          | 1616        | 1620         | rVB2     | 28401          | 32353         | 1.03%           | 0.115%        |
| 24        | 11.939      | 1668          | 1675        | 1680         | rBV2     | 104348         | 127490        | 4.06%           | 0.452%        |
| 25        | 12.727      | 1806          | 1809        | 1813         | rBV4     | 44128          | 43737         | 1.39%           | 0.155%        |
| 26        | 13.010      | 1853          | 1857        | 1861         | rBV      | 2664633        | 2636487       | 83.89%          | 9.342%        |
| 27        | 13.121      | 1873          | 1876        | 1879         | rBV      | 48092          | 41784         | 1.33%           | 0.148%        |
| 28        | 13.898      | 2004          | 2008        | 2015         | rBV      | 141876         | 162415        | 5.17%           | 0.575%        |
| 29        | 14.068      | 2032          | 2037        | 2040         | rBV      | 1630968        | 1561702       | 49.69%          | 5.533%        |
| 30        | 14.521      | 2111          | 2114        | 2121         | rBV9     | 21234          | 34764         | 1.11%           | 0.123%        |
| 31        | 15.551      | 2283          | 2289        | 2298         | rVB      | 880401         | 1119315       | 35.62%          | 3.966%        |

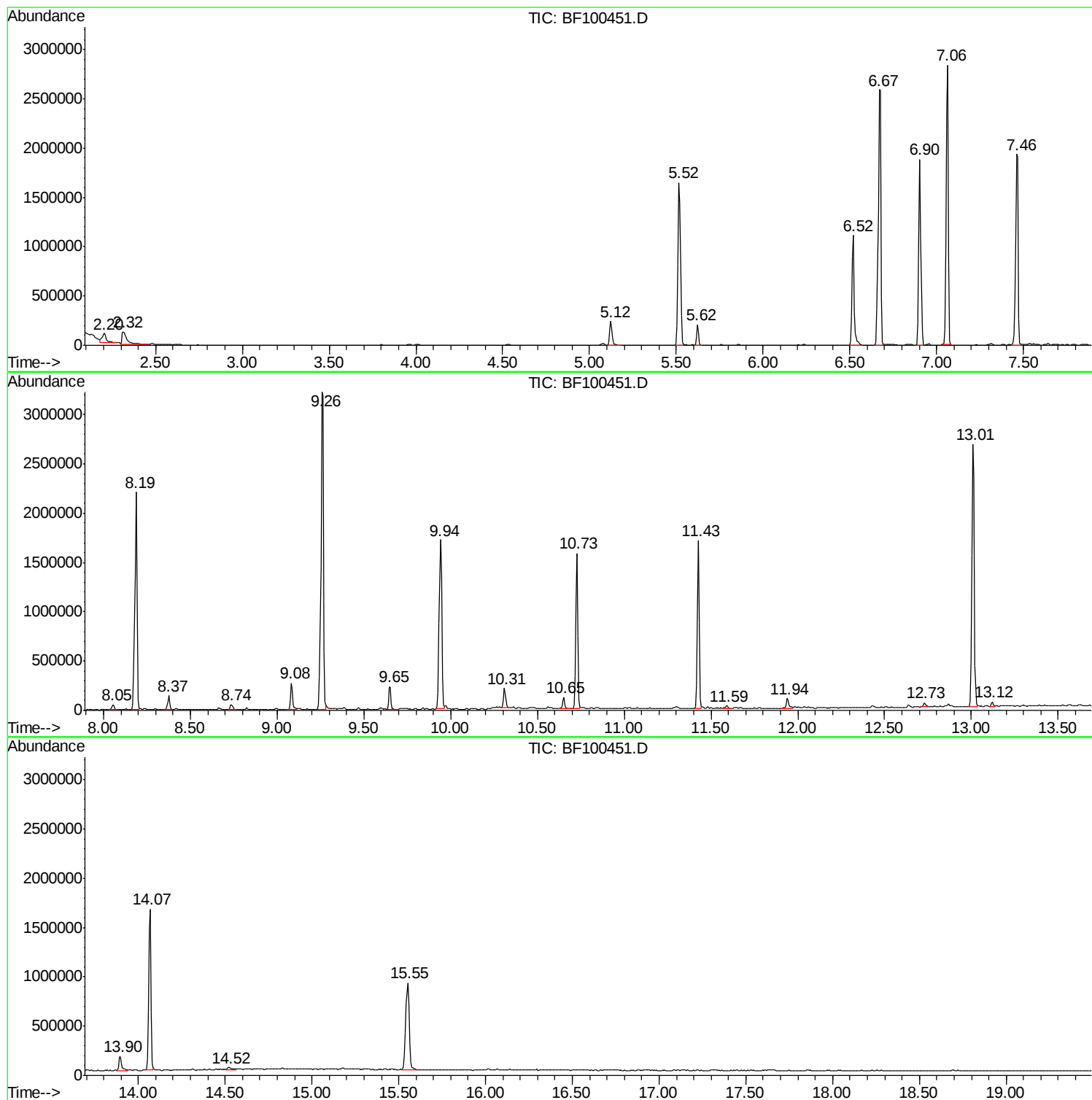
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BNA\_F  
ClientSampleId :  
TP-12

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.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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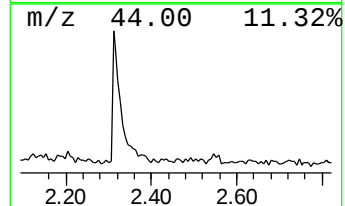
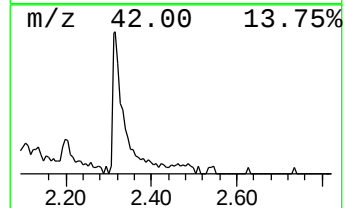
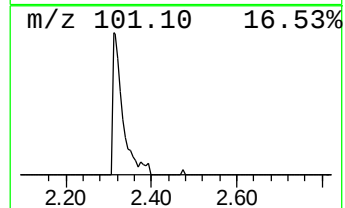
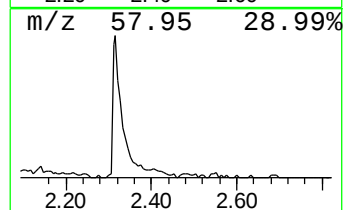
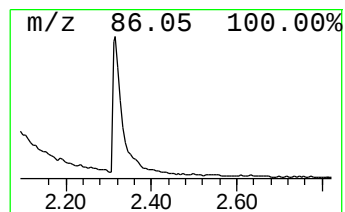
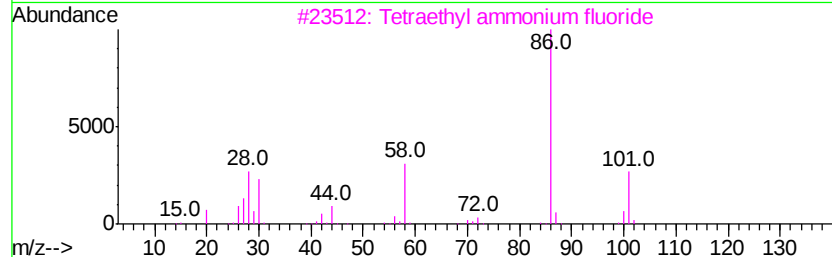
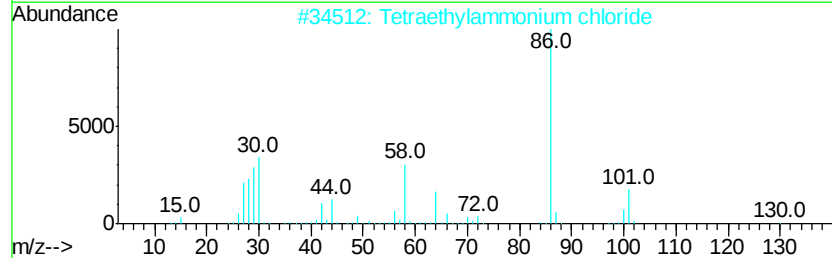
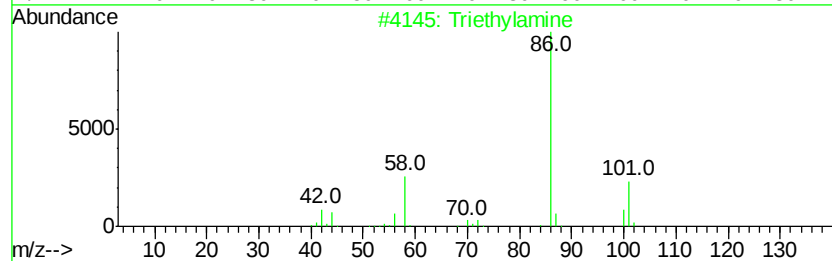
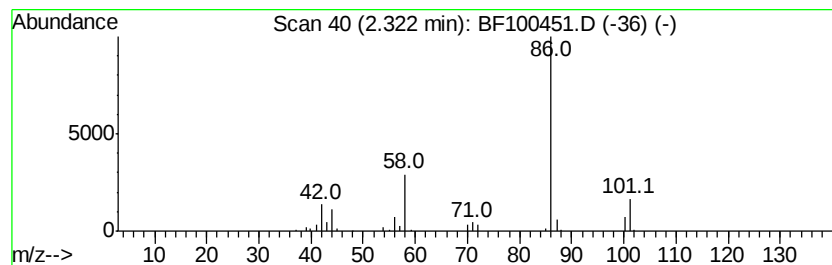
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Triethylamine Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.32 | 3.08 ng | 241244 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|----------|-------------|------|
| 1    |    |   | Triethylamine                     | 101 | C6H15N   | 000121-44-8 | 94   |
| 2    |    |   | Tetraethylammonium chloride       | 165 | C8H20ClN | 000056-34-8 | 83   |
| 3    |    |   | Tetraethyl ammonium fluoride      | 149 | C8H20FN  | 000665-46-3 | 78   |
| 4    |    |   | 1,2-Ethanediamine, N,N-diethyl-   | 116 | C6H16N2  | 000100-36-7 | 72   |
| 5    |    |   | 1-Propanamine, N-(1-methylethyl)- | 101 | C6H15N   | 021968-17-2 | 72   |



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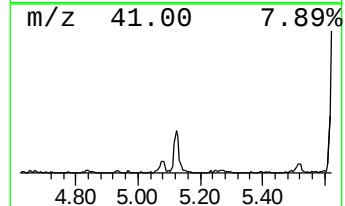
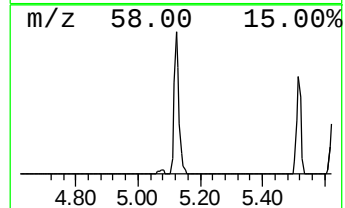
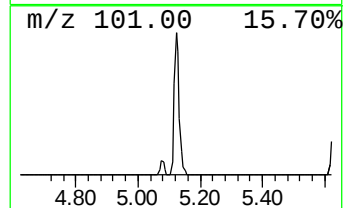
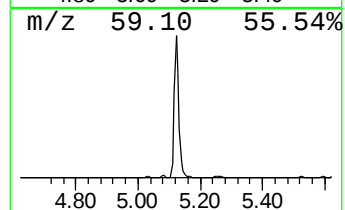
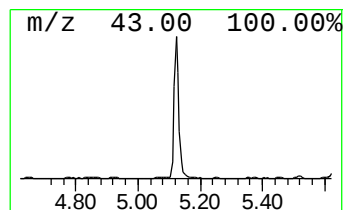
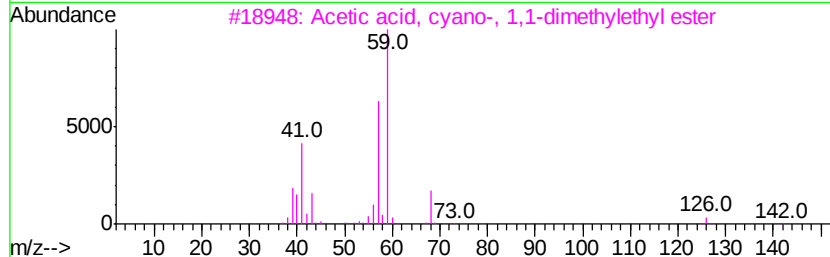
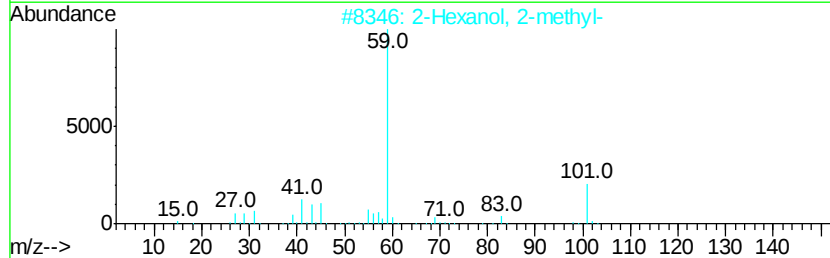
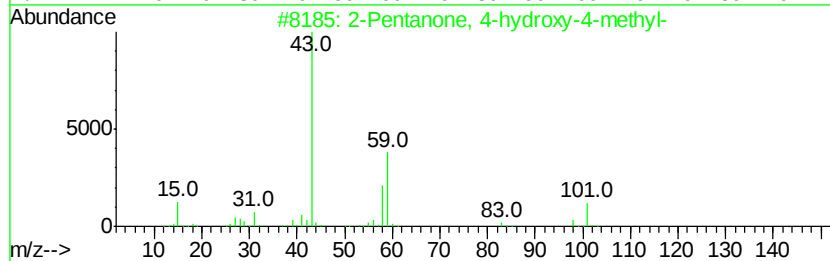
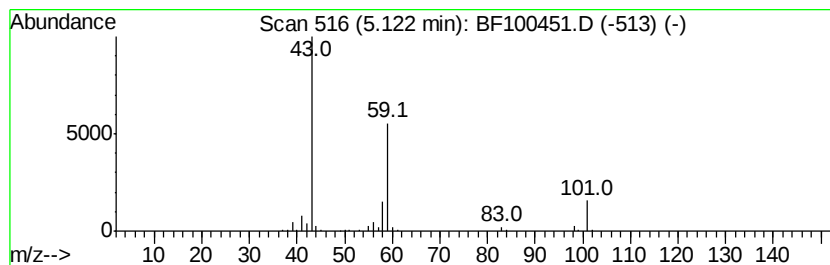
TIC Library : C:\DATABASE\NIST11.L  
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Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.12 | 3.31 ng | 259022 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 59   |
| 2    |    |   | 2-Hexanol, 2-methyl-                 | 116 | C7H16O   | 000625-23-0 | 28   |
| 3    |    |   | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 4    |    |   | Acetic acid, 1,1-dimethylethyl e...  | 116 | C6H12O2  | 000540-88-5 | 17   |
| 5    |    |   | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 10   |



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Sample : I6399-24  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
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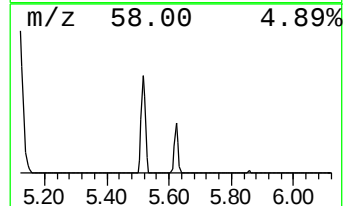
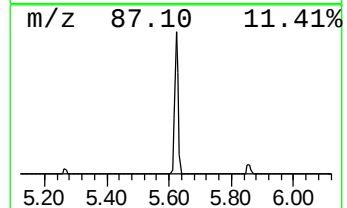
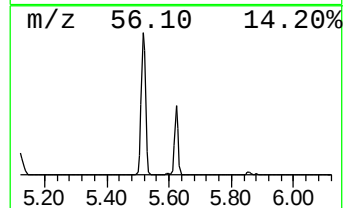
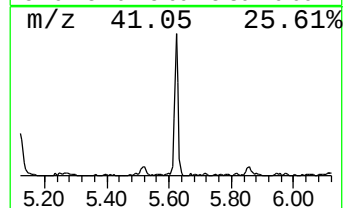
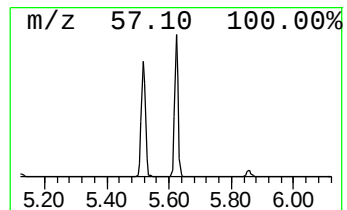
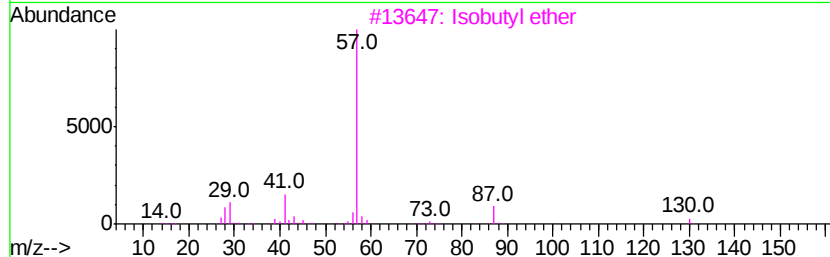
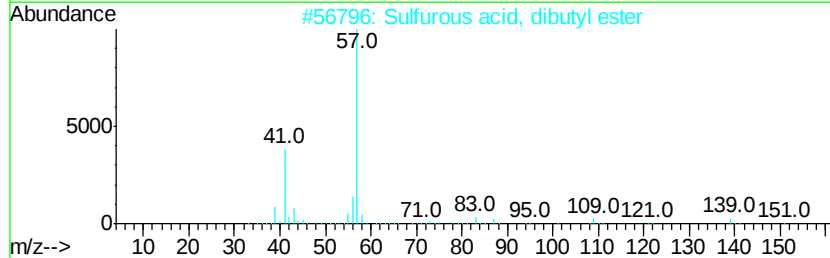
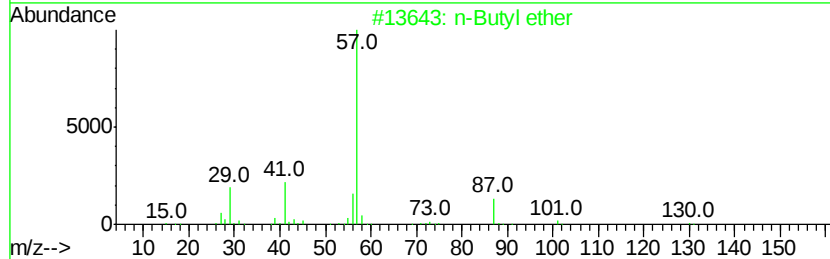
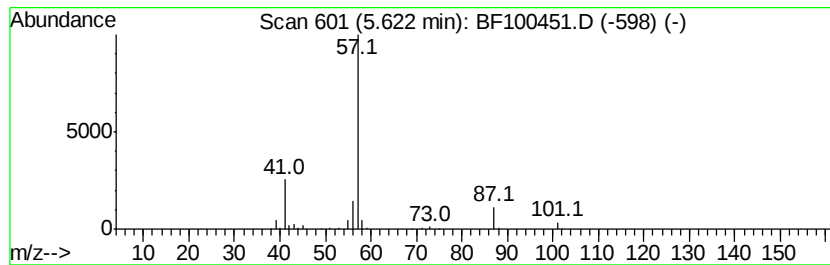
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Butyl ether Concentration Rank 6

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.62 | 2.15 ng | 168262 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | Tentative ID                  | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------|-----|----------|-------------|------|
| 1    | 5  | n-Butyl ether                 | 130 | C8H18O   | 000142-96-1 | 78   |
| 2    |    | Sulfurous acid, dibutyl ester | 194 | C8H18O3S | 000626-85-7 | 53   |
| 3    |    | Isobutyl ether                | 130 | C8H18O   | 000628-55-7 | 45   |
| 4    |    | Pentane, 1-butoxy-            | 144 | C9H20O   | 018636-66-3 | 39   |
| 5    |    | Mercury di-n-butyl            | 316 | C8H18Hg  | 000629-35-6 | 38   |



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ALS Vial : 24 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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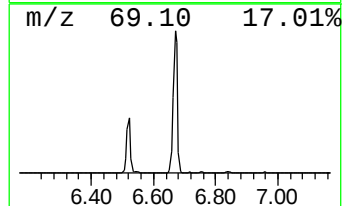
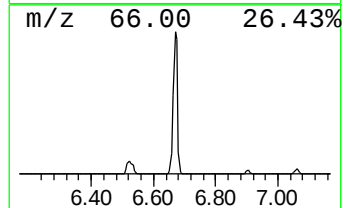
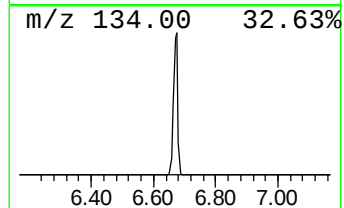
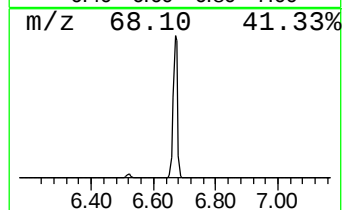
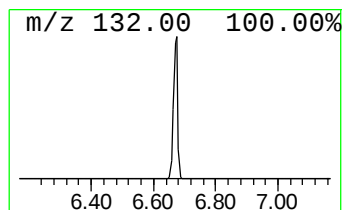
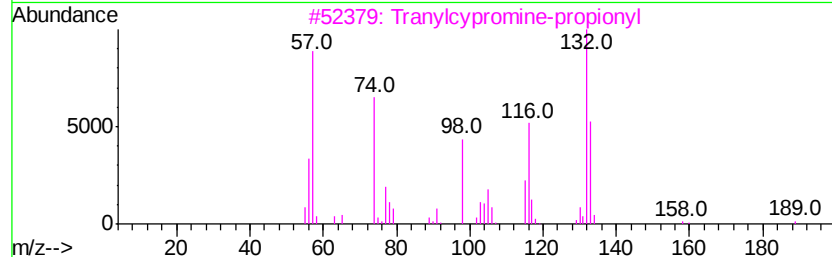
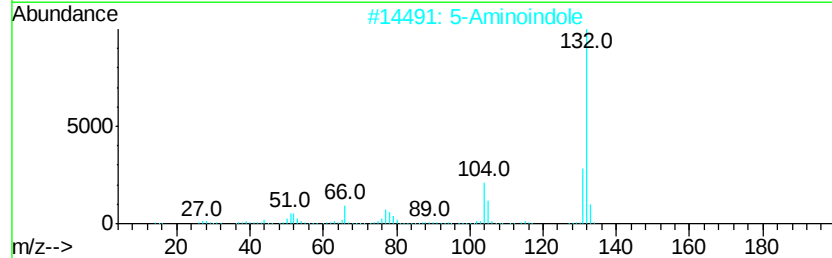
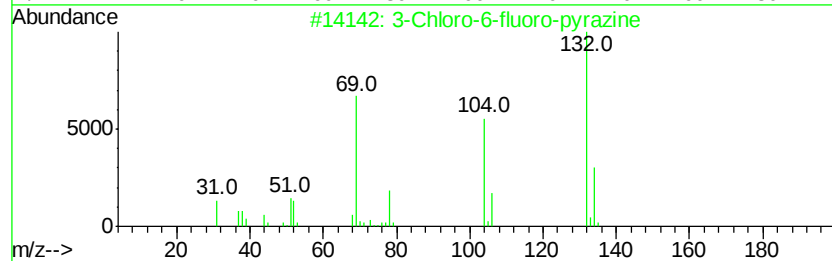
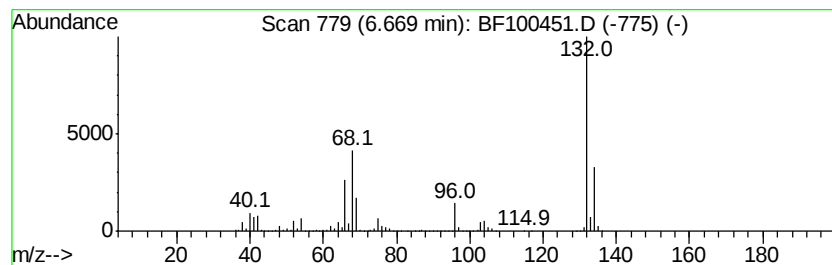
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Peak Number 4 unknown6.67 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.67 | 33.54 ng | 2624280 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    |   | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    |   | Tranvlcypropine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    |   | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    |   | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



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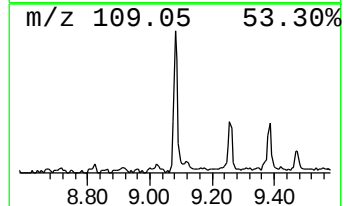
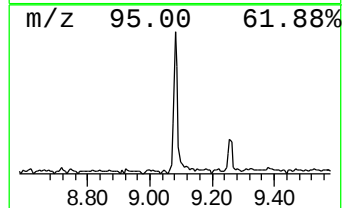
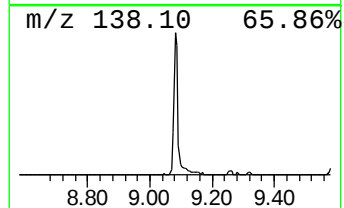
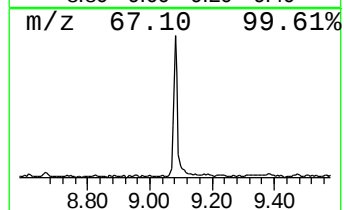
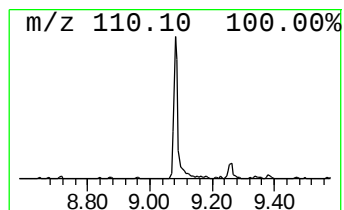
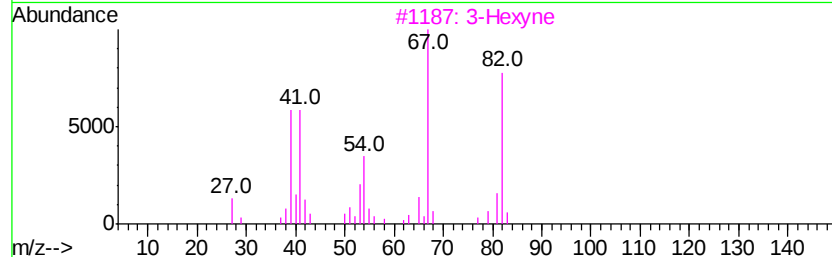
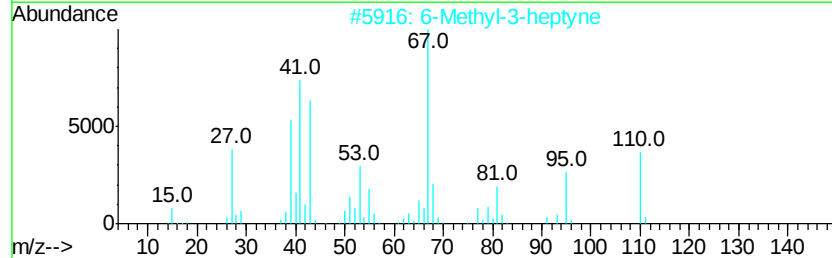
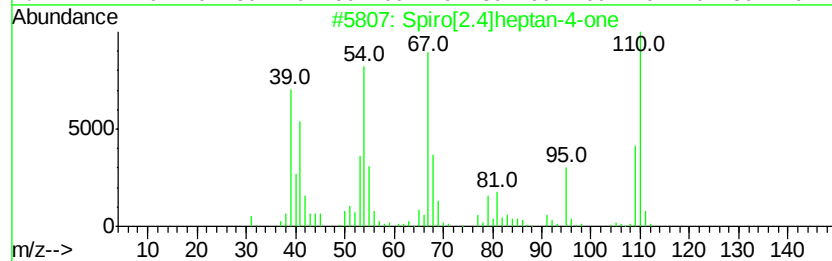
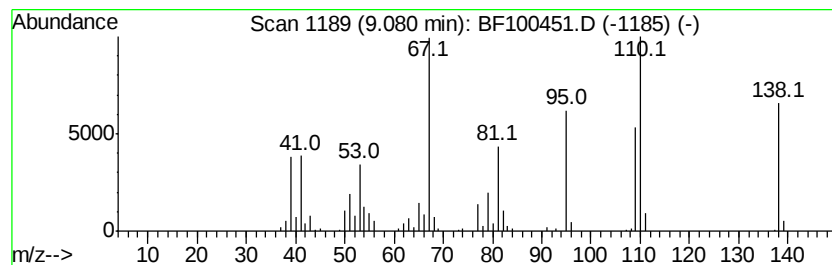
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Spiro[2.4]heptan-4-one Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.08 | 3.08 ng | 244477 | Acenaphthene-d10 | 9.94 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Spiro[2.4]heptan-4-one       | 110 | C7H10O  | 005771-32-4 | 58   |
| 2    |    | 6-Methyl-3-heptyne           | 110 | C8H14   | 054050-92-9 | 49   |
| 3    |    | 3-Hexyne                     | 82  | C6H10   | 000928-49-4 | 22   |
| 4    |    | Phenol, 4-ethoxy-            | 138 | C8H10O2 | 000622-62-8 | 22   |
| 5    |    | 4-Acetyl-1-methylcyclohexene | 138 | C9H14O  | 006090-09-1 | 18   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111117\  
Data File : BF100451.D  
Acq On : 11 Nov 2017 19:57  
Operator : SJ/JU  
Sample : I6399-24  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

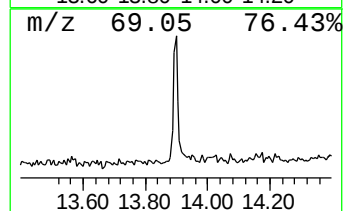
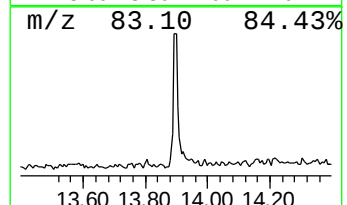
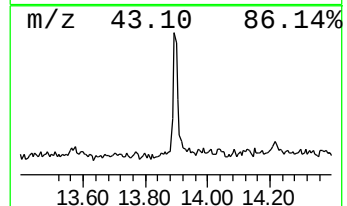
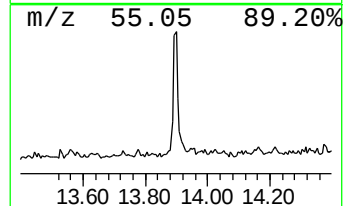
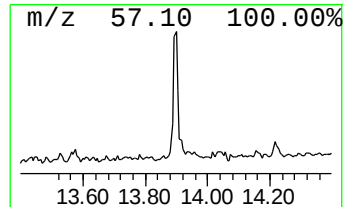
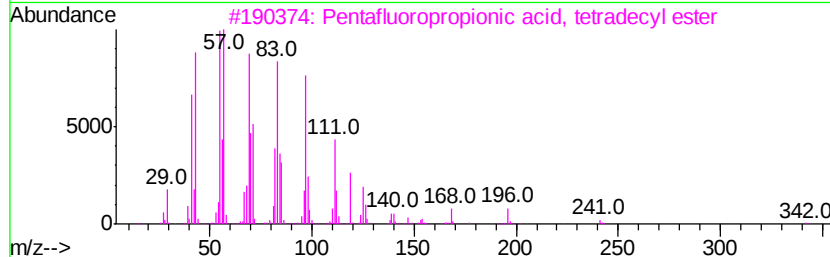
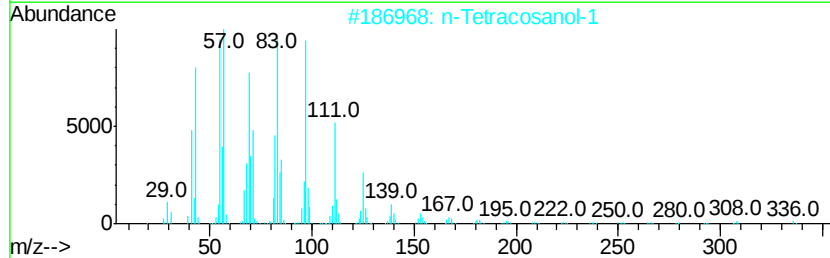
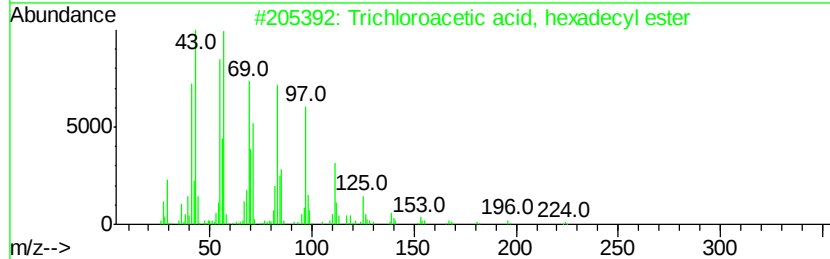
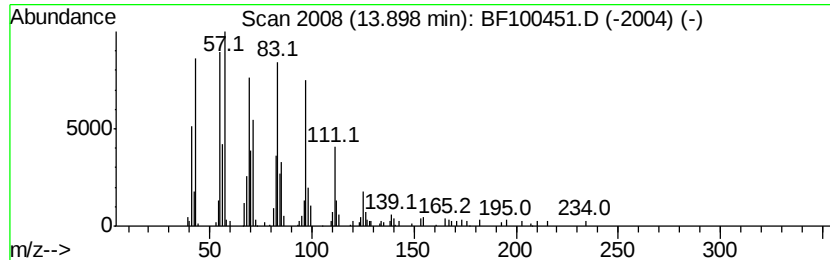
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Trichloroacetic acid, hexad... Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.90 | 2.08 ng | 162415 | Chrysene-d12     | 14.07 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1  | 94   |
| 2    |    | n-Tetracosanol-1                    | 354 | C24H50O     | 000506-51-4  | 94   |
| 3    |    | Pentafluoropropionic acid, tetra... | 360 | C17H29F5O2  | 006222-06-6  | 94   |
| 4    |    | Heptafluorobutyric acid, n-tetra... | 410 | C18H29F7O2  | 007365-36-8  | 94   |
| 5    |    | Heptadecyl trifluoroacetate         | 352 | C19H35F3O2  | 1000351-87-0 | 93   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF111117\  
Data File : BF100451.D  
Acq On : 11 Nov 2017 19:57  
Operator : SJ/JU  
Sample : I6399-24  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.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 |
| Triethylamine        | 2.32  | 3.1     | ng    | 241244   | 1                     | 6.90  | 1565040 | 20.0 |
| 2-Pentanone, 4-hy... | 5.12  | 3.3     | ng    | 259022   | 1                     | 6.90  | 1565040 | 20.0 |
| n-Butyl ether        | 5.62  | 2.1     | ng    | 168262   | 1                     | 6.90  | 1565040 | 20.0 |
| unknown6.67          | 6.67  | 33.5    | ng    | 2624280  | 1                     | 6.90  | 1565040 | 20.0 |
| Spiro[2.4]heptan-... | 9.08  | 3.1     | ng    | 244477   | 3                     | 9.94  | 1590020 | 20.0 |
| Trichloroacetic a... | 13.90 | 2.1     | ng    | 162415   | 5                     | 14.07 | 1561700 | 20.0 |