

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF111516\  
 Data File : BF091177.D  
 Acq On : 15 Nov 2016 14:16  
 Operator : UM/SJ  
 Sample : H5636-04  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CPS043044

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-BF110316.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         | 1.744       | 3             | 5           | 57           | rVB      | 3214970        | 10454282      | 100.00%         | 19.805%       |
| 2         | 4.761       | 268           | 269         | 282          | rBV      | 323809         | 574317        | 5.49%           | 1.088%        |
| 3         | 5.219       | 307           | 309         | 328          | rBV      | 2250520        | 2695146       | 25.78%          | 5.106%        |
| 4         | 6.282       | 400           | 402         | 410          | rBV      | 1403906        | 1683796       | 16.11%          | 3.190%        |
| 5         | 6.407       | 410           | 413         | 415          | rBV      | 3762632        | 4612532       | 44.12%          | 8.738%        |
| 6         | 6.636       | 431           | 433         | 438          | rBV      | 892366         | 982875        | 9.40%           | 1.862%        |
| 7         | 6.716       | 438           | 440         | 444          | rVB      | 159649         | 184541        | 1.77%           | 0.350%        |
| 8         | 6.784       | 444           | 446         | 449          | rBV      | 3264410        | 4108404       | 39.30%          | 7.783%        |
| 9         | 7.207       | 480           | 483         | 485          | rBV      | 3135299        | 3403647       | 32.56%          | 6.448%        |
| 10        | 7.916       | 543           | 545         | 548          | rBV      | 1086109        | 1340270       | 12.82%          | 2.539%        |
| 11        | 9.002       | 637           | 640         | 642          | rBV      | 5714526        | 5972662       | 57.13%          | 11.315%       |
| 12        | 9.665       | 696           | 698         | 701          | rBV      | 1455228        | 1614025       | 15.44%          | 3.058%        |
| 13        | 10.465      | 765           | 768         | 770          | rBV      | 3379426        | 4095369       | 39.17%          | 7.758%        |
| 14        | 11.151      | 825           | 828         | 830          | rBV      | 1657526        | 1660751       | 15.89%          | 3.146%        |
| 15        | 11.539      | 860           | 862         | 865          | rVB      | 226465         | 219474        | 2.10%           | 0.416%        |
| 16        | 12.739      | 964           | 967         | 969          | rBV      | 5814715        | 6361385       | 60.85%          | 12.051%       |
| 17        | 13.779      | 1055          | 1058        | 1060         | rBV      | 1445342        | 1557693       | 14.90%          | 2.951%        |
| 18        | 15.140      | 1175          | 1177        | 1180         | rBV      | 889675         | 1265810       | 12.11%          | 2.398%        |

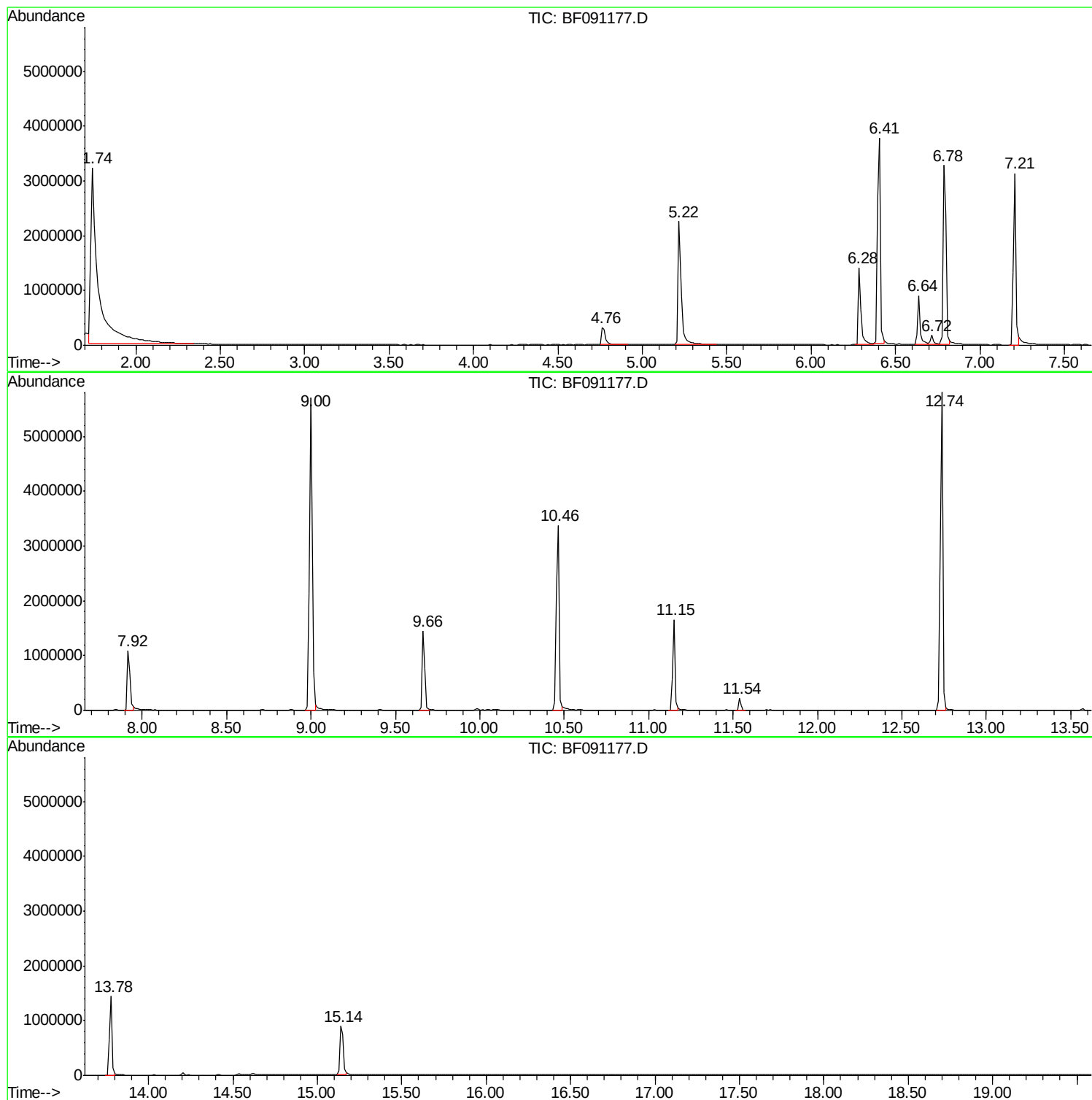
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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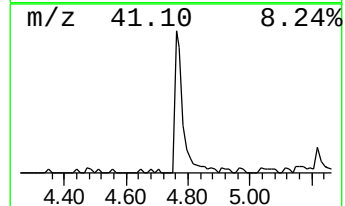
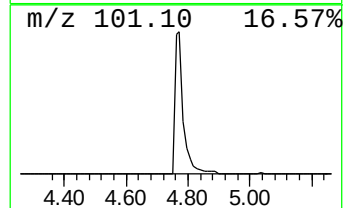
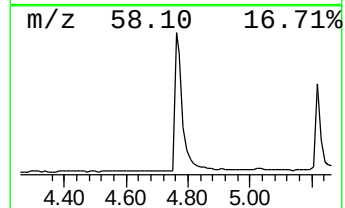
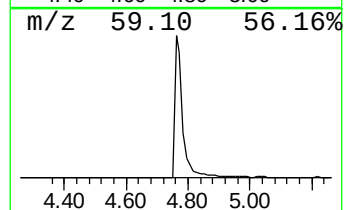
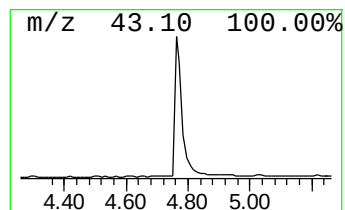
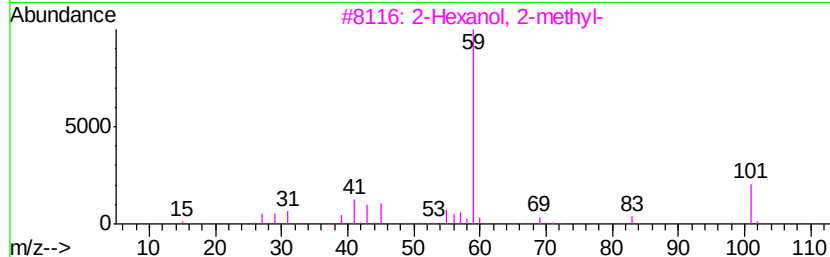
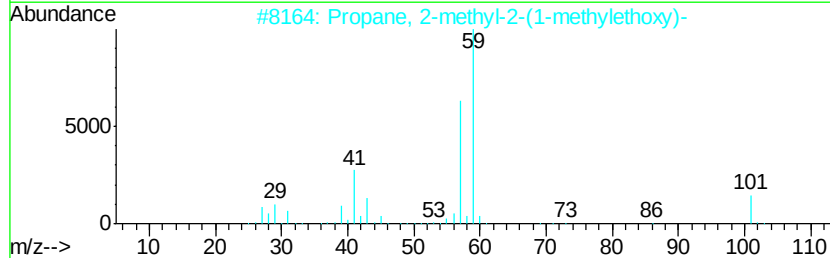
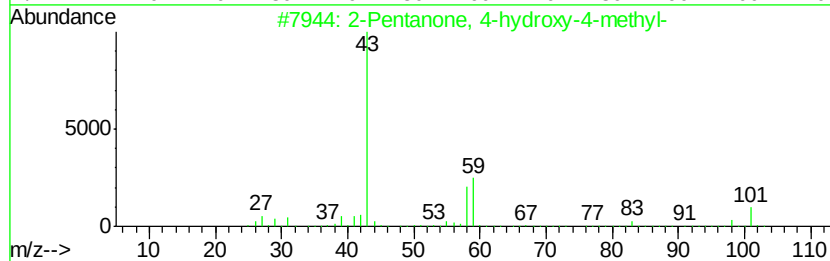
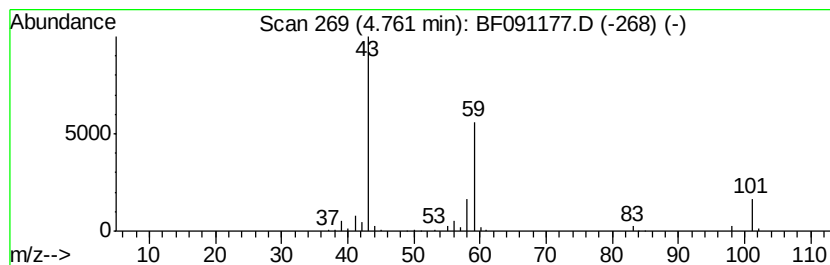
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.76 | 11.69 ng | 574317 | 1,4-Dichlorobenzene-d4 | 6.64 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 59   |
| 2    |    | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O   | 017348-59-3 | 42   |
| 3    |    | 2-Hexanol, 2-methyl-                | 116 | C7H16O   | 000625-23-0 | 33   |
| 4    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 5    |    | 1-Propen-2-ol, acetate              | 100 | C5H8O2   | 000108-22-5 | 10   |



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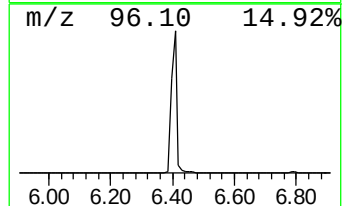
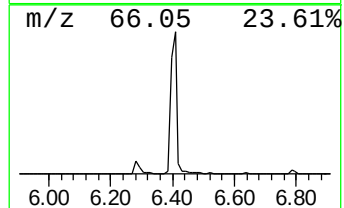
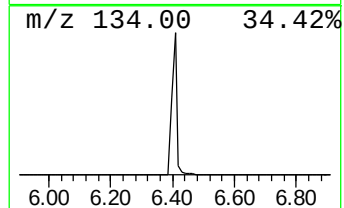
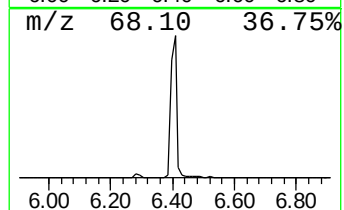
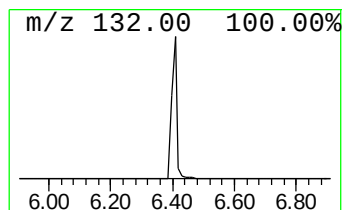
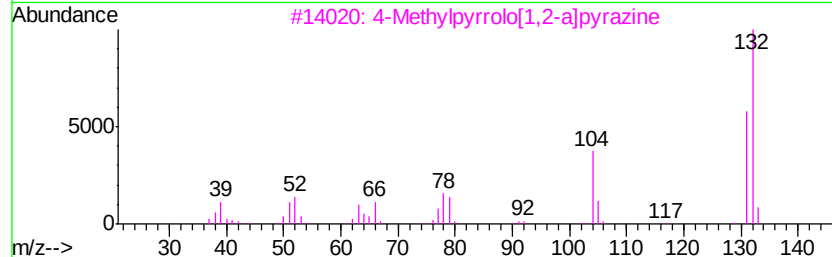
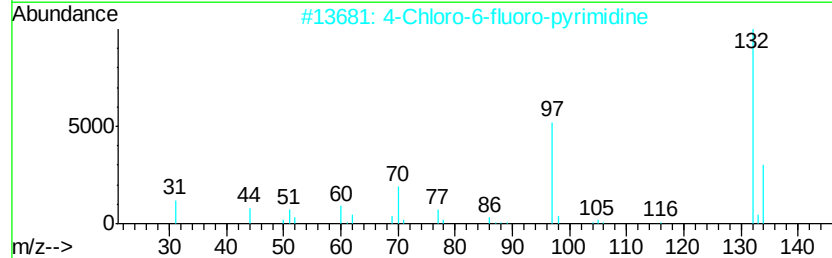
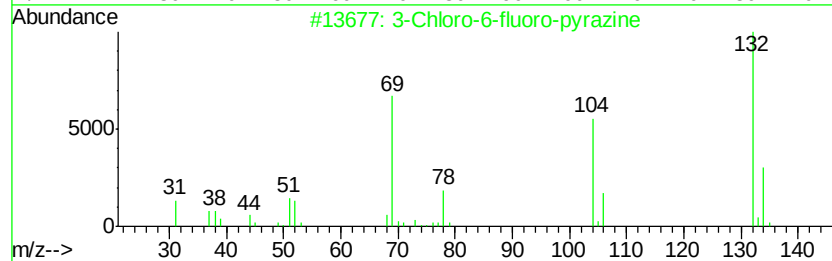
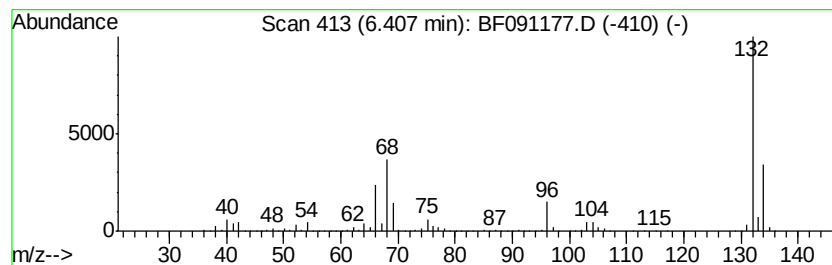
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Peak Number 3 unknown6.41 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.41 | 93.86 ng | 4612530 | 1,4-Dichlorobenzene-d4 | 6.64 |

| Hit# | of | Tentative ID                   | MW  | MolForm   | CAS#         | Qual |
|------|----|--------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine     | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 2    |    | 4-Chloro-6-fluoro-pyrimidine   | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 3    |    | 4-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2    | 064608-60-2  | 9    |
| 4    |    | 4-Chloro-2-fluoro-pyrimidine   | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2    | 064608-59-9  | 9    |



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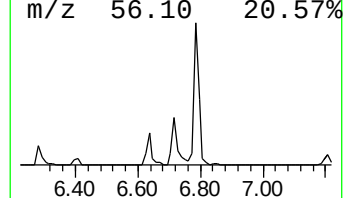
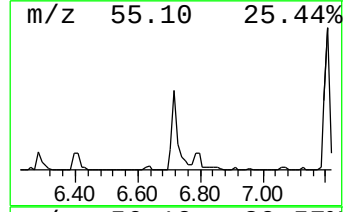
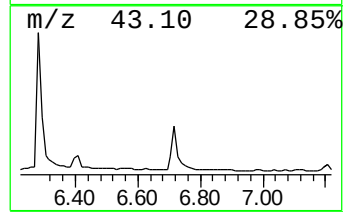
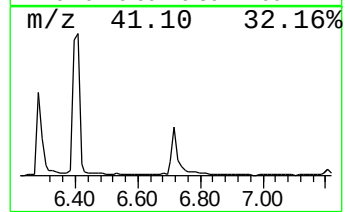
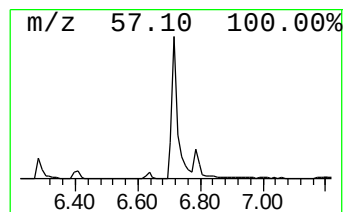
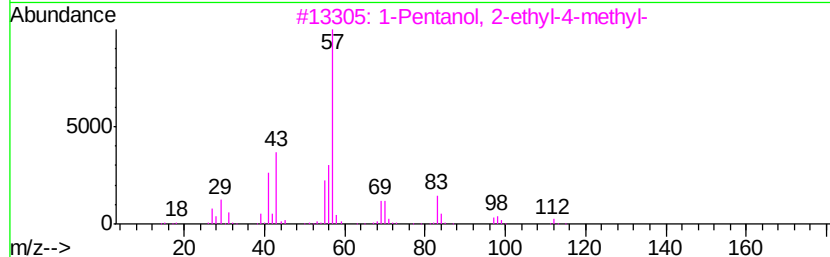
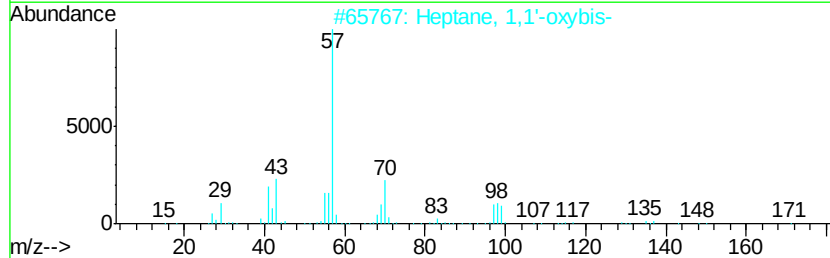
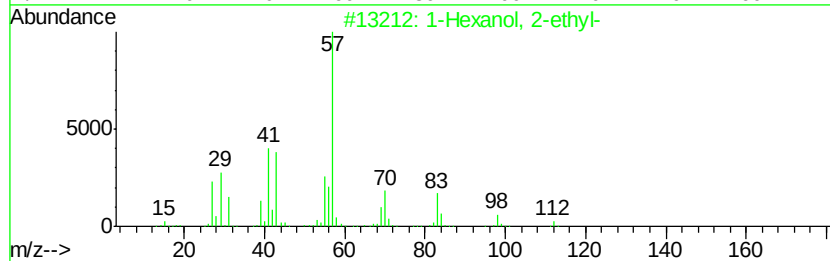
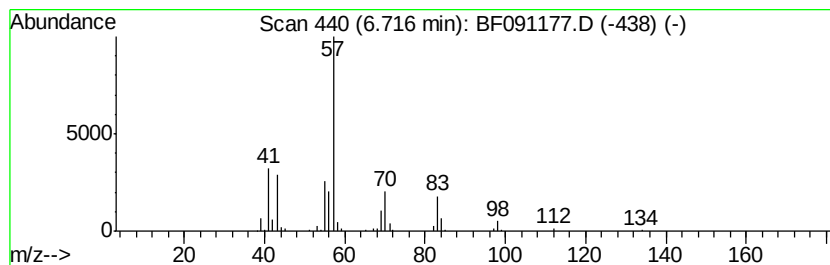
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 1-Hexanol, 2-ethyl- Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.72 | 3.76 ng | 184541 | 1,4-Dichlorobenzene-d4 | 6.64 |

| Hit# | of | Tentative ID                  | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 1-Hexanol, 2-ethyl-           | 130 | C8H18O    | 000104-76-7 | 83   |
| 2    |    | Heptane, 1,1'-oxybis-         | 214 | C14H30O   | 000629-64-1 | 64   |
| 3    |    | 1-Pentanol, 2-ethyl-4-methyl- | 130 | C8H18O    | 000106-67-2 | 50   |
| 4    |    | dl-2-Ethylhexyl chloroformate | 192 | C9H17ClO2 | 024468-13-1 | 50   |
| 5    |    | 1-Hexene, 4-methyl-           | 98  | C7H14     | 003769-23-1 | 43   |



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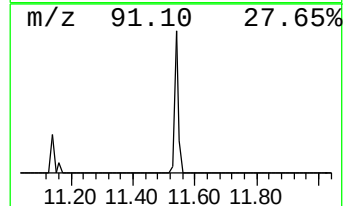
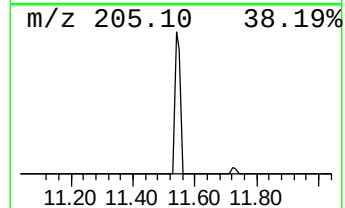
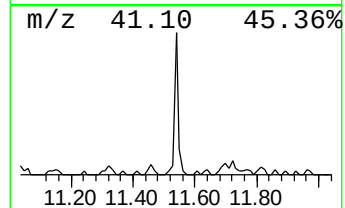
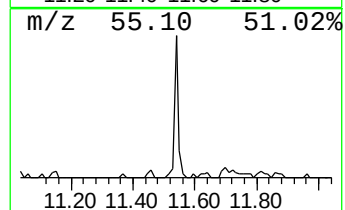
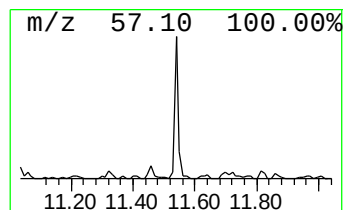
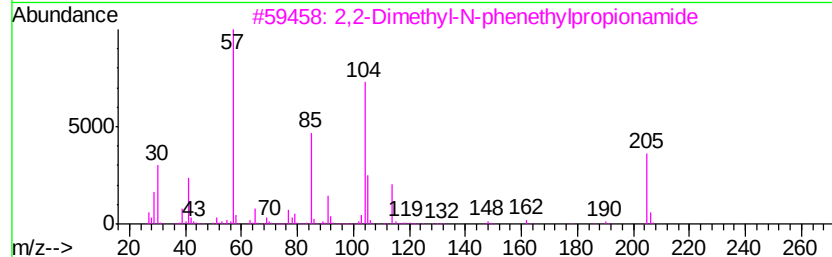
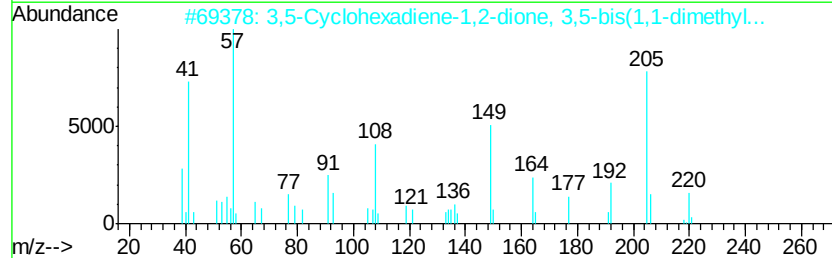
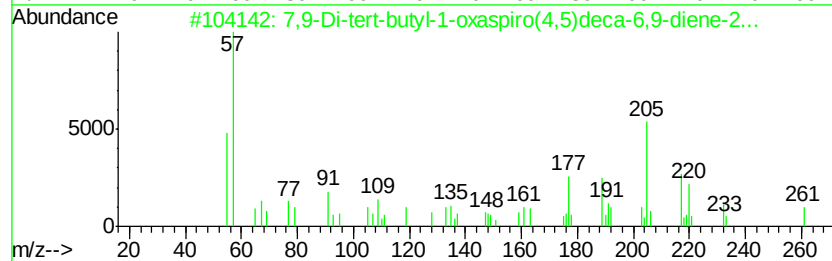
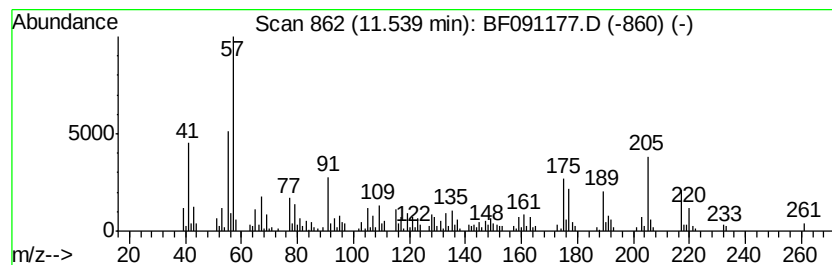
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Peak Number 6 7,9-Di-tert-butyl-1-oxaspiro... Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.54 | 2.64 ng | 219474 | Phenanthrene-d10 | 11.15 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-------------|-------------|------|
| 1    |    |   | 7,9-Di-tert-butyl-1-oxaspiro(4,5... | 276 | C17H24O3    | 082304-66-3 | 52   |
| 2    |    |   | 3,5-Cyclohexadiene-1,2-dione, 3,... | 220 | C14H2O2     | 003383-21-9 | 22   |
| 3    |    |   | 2,2-Dimethyl-N-phenethylpropiona... | 205 | C13H19NO    | 062056-54-6 | 20   |
| 4    |    |   | Silane, trichlorodecyl-             | 274 | C10H21Cl3Si | 013829-21-5 | 17   |
| 5    |    |   | 2(5H)-Furanone, 4-methyl-3,5,5-t... | 260 | C17H24O2    | 089902-28-3 | 10   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 4.76  | 11.7    | ng    | 574317   | 1                     | 6.64  | 982875  | 20.0 |
| unknown6.41          | 6.41  | 93.9    | ng    | 4612530  | 1                     | 6.64  | 982875  | 20.0 |
| 1-Hexanol, 2-ethyl-  | 6.72  | 3.8     | ng    | 184541   | 1                     | 6.64  | 982875  | 20.0 |
| 7,9-Di-tert-butyl... | 11.54 | 2.6     | ng    | 219474   | 4                     | 11.15 | 1660750 | 20.0 |