

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020117\  
 Data File : BF092734.D  
 Acq On : 2 Feb 2017 6:15  
 Operator : SJ/MA  
 Sample : I1615-11  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-11

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-BF013017.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         | 4.818       | 238           | 239         | 250          | rBV      | 18355          | 39183         | 1.03%           | 0.126%        |
| 2         | 5.138       | 264           | 267         | 276          | rVB      | 1306176        | 1766029       | 46.43%          | 5.673%        |
| 3         | 5.561       | 301           | 304         | 306          | rBV      | 3688293        | 3655300       | 96.10%          | 11.741%       |
| 4         | 6.590       | 391           | 394         | 396          | rBV      | 3064186        | 3803633       | 100.00%         | 12.218%       |
| 5         | 6.716       | 402           | 405         | 407          | rBV      | 3634730        | 3324707       | 87.41%          | 10.679%       |
| 6         | 6.944       | 423           | 425         | 427          | rBV      | 1153845        | 943940        | 24.82%          | 3.032%        |
| 7         | 7.104       | 436           | 439         | 441          | rBV      | 2896270        | 2699787       | 70.98%          | 8.672%        |
| 8         | 7.516       | 472           | 475         | 477          | rBV      | 1843566        | 2323699       | 61.09%          | 7.464%        |
| 9         | 8.236       | 535           | 538         | 540          | rBV      | 1377727        | 1169665       | 30.75%          | 3.757%        |
| 10        | 9.310       | 630           | 632         | 635          | rBV      | 2206471        | 3105993       | 81.66%          | 9.977%        |
| 11        | 9.710       | 665           | 667         | 669          | rBV      | 201795         | 167872        | 4.41%           | 0.539%        |
| 12        | 9.996       | 690           | 692         | 694          | rBV      | 1344357        | 1104675       | 29.04%          | 3.548%        |
| 13        | 10.419      | 726           | 729         | 731          | rBV      | 46412          | 71493         | 1.88%           | 0.230%        |
| 14        | 10.785      | 759           | 761         | 764          | rVV      | 1266282        | 1332040       | 35.02%          | 4.279%        |
| 15        | 10.842      | 764           | 766         | 769          | rVB      | 49188          | 48124         | 1.27%           | 0.155%        |
| 16        | 10.899      | 769           | 771         | 774          | rBV      | 74391          | 82811         | 2.18%           | 0.266%        |
| 17        | 11.345      | 808           | 810         | 811          | rBV      | 59942          | 48686         | 1.28%           | 0.156%        |
| 18        | 11.482      | 820           | 822         | 825          | rBV      | 757890         | 760366        | 19.99%          | 2.442%        |
| 19        | 13.071      | 958           | 961         | 963          | rBV      | 2401541        | 2139954       | 56.26%          | 6.874%        |
| 20        | 13.974      | 1038          | 1040        | 1045         | rBV4     | 15064          | 45880         | 1.21%           | 0.147%        |
| 21        | 14.122      | 1050          | 1053        | 1055         | rBV      | 976792         | 907377        | 23.86%          | 2.915%        |
| 22        | 14.282      | 1063          | 1067        | 1072         | rBV5     | 20192          | 58932         | 1.55%           | 0.189%        |
| 23        | 14.579      | 1091          | 1093        | 1096         | rBV      | 34080          | 42328         | 1.11%           | 0.136%        |
| 24        | 14.888      | 1118          | 1120        | 1122         | rVB      | 38232          | 42008         | 1.10%           | 0.135%        |
| 25        | 14.968      | 1124          | 1127        | 1129         | rVB      | 36782          | 44609         | 1.17%           | 0.143%        |
| 26        | 15.231      | 1148          | 1150        | 1154         | rVB      | 48911          | 64232         | 1.69%           | 0.206%        |
| 27        | 15.597      | 1178          | 1182        | 1188         | rBV      | 481235         | 843916        | 22.19%          | 2.711%        |
| 28        | 16.042      | 1219          | 1221        | 1225         | rBV      | 64825          | 101648        | 2.67%           | 0.327%        |
| 29        | 16.294      | 1240          | 1243        | 1247         | rBV5     | 31651          | 63366         | 1.67%           | 0.204%        |
| 30        | 16.557      | 1263          | 1266        | 1272         | rVB2     | 56994          | 125070        | 3.29%           | 0.402%        |
| 31        | 16.728      | 1278          | 1281        | 1284         | rVB3     | 23040          | 43356         | 1.14%           | 0.139%        |
| 32        | 17.151      | 1314          | 1318        | 1322         | rVB      | 33643          | 70776         | 1.86%           | 0.227%        |
| 33        | 17.848      | 1375          | 1379        | 1385         | rVB2     | 28910          | 91023         | 2.39%           | 0.292%        |

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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-BF013017.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

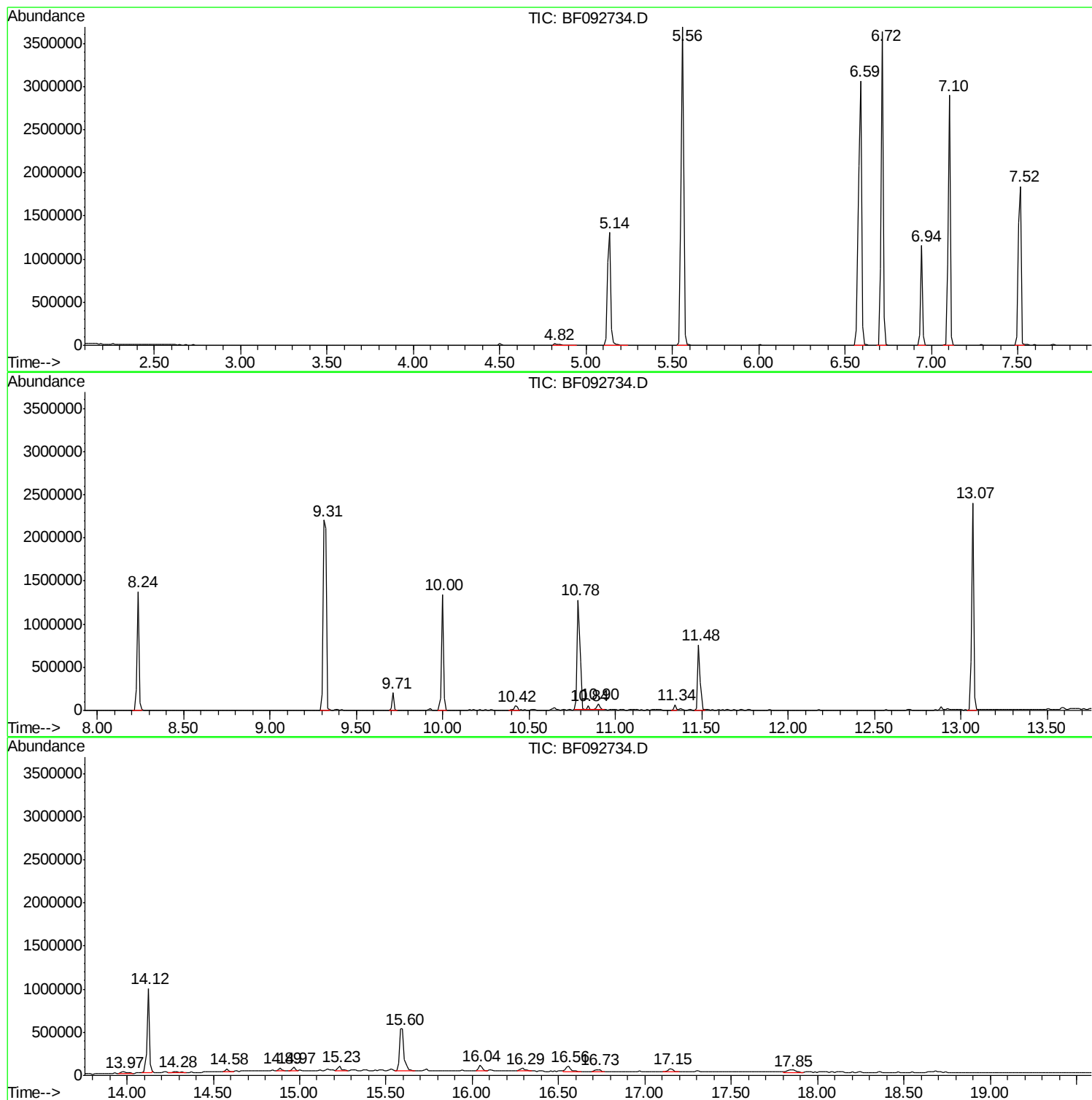
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
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TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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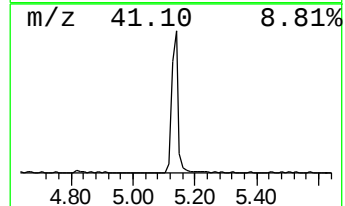
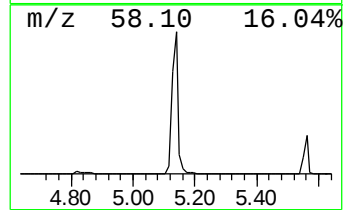
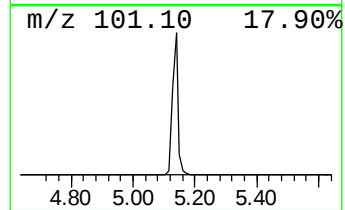
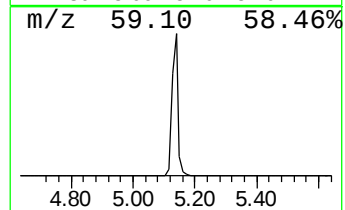
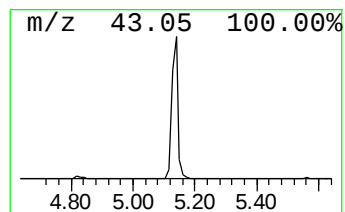
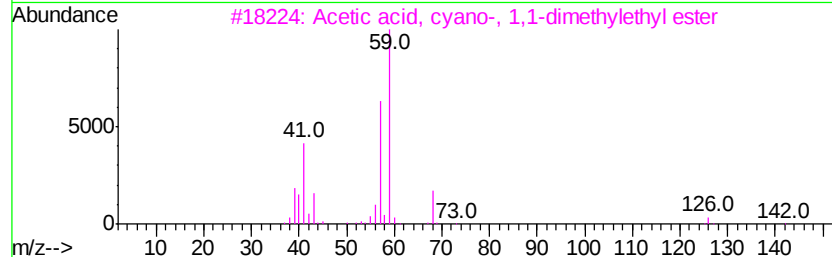
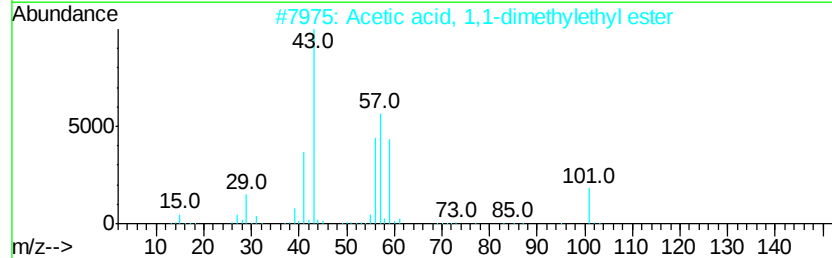
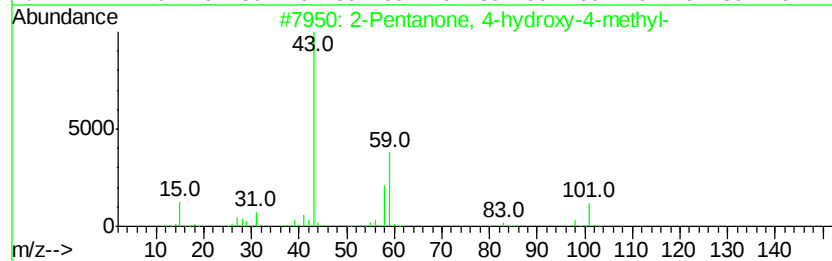
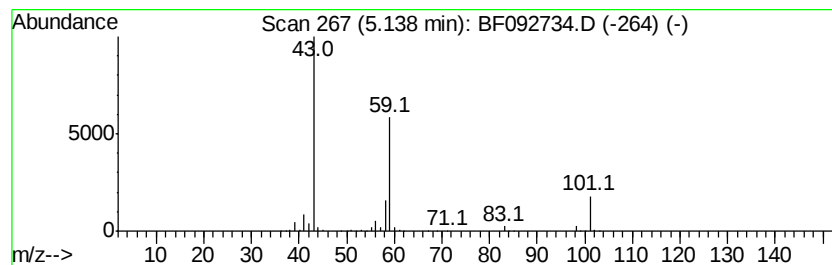
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 5.14 | 37.42 ng | 1766030 | 1,4-Dichlorobenzene-d4 | 6.94 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 59   |
| 2    |    |   | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2  | 000540-88-5 | 39   |
| 3    |    |   | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 4    |    |   | Butyl aldoxime, 3-methyl-, syn-     | 101 | C5H11NO  | 005780-40-5 | 9    |
| 5    |    |   | 3-Hydroxy-3-methyl-2-butanone       | 102 | C5H10O2  | 000115-22-0 | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

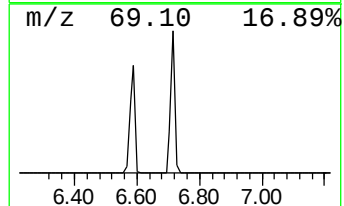
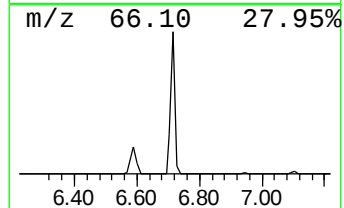
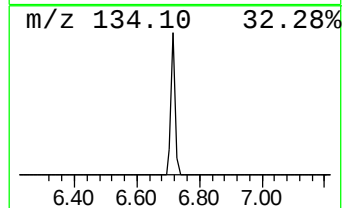
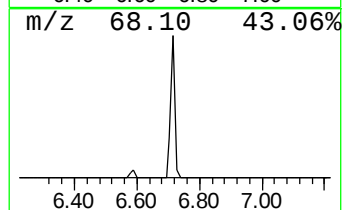
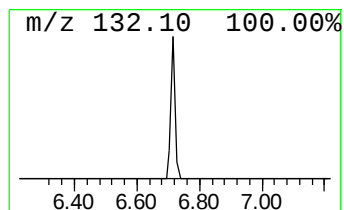
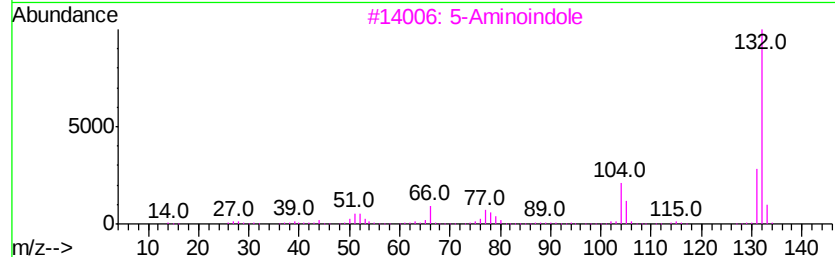
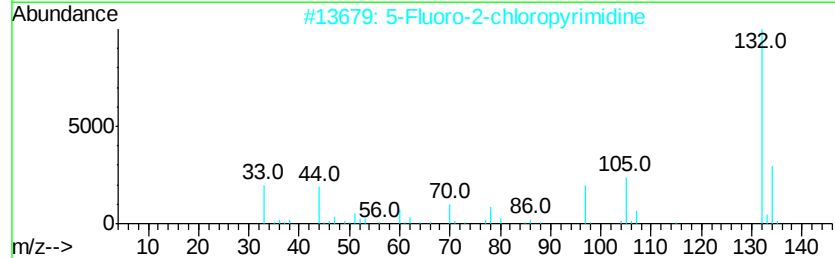
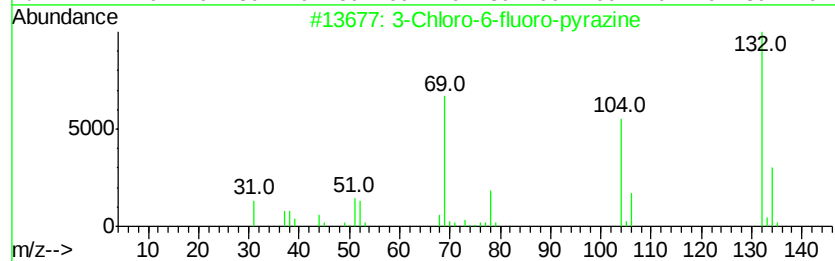
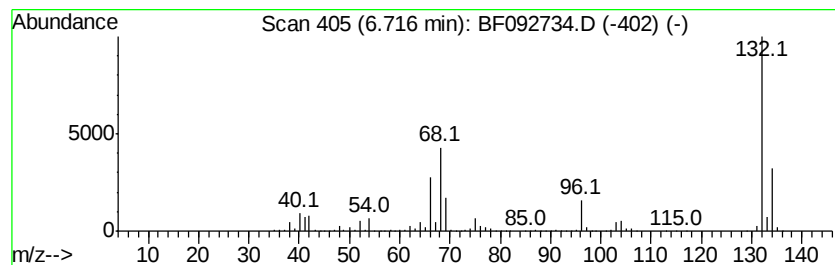
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.72 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.72 | 70.44 ng | 3324710 | 1,4-Dichlorobenzene-d4 | 6.94 |

| 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    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4    | 019485-35-9  | 9    |
| 5    |    | Benzene, 1,3,5-trifluoro-        | 132 | C6H3F3    | 000372-38-3  | 9    |



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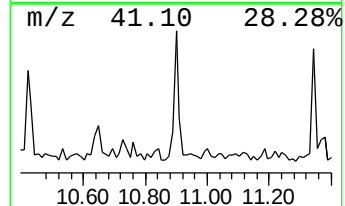
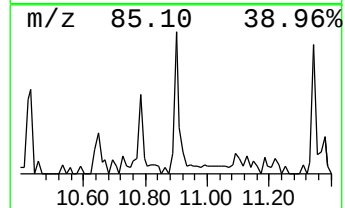
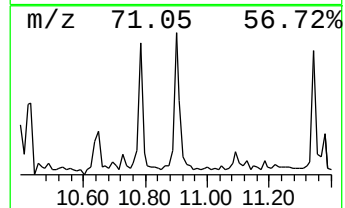
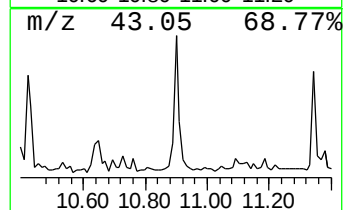
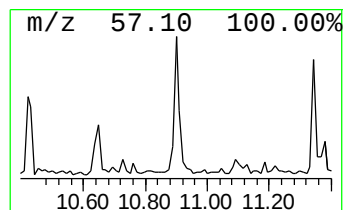
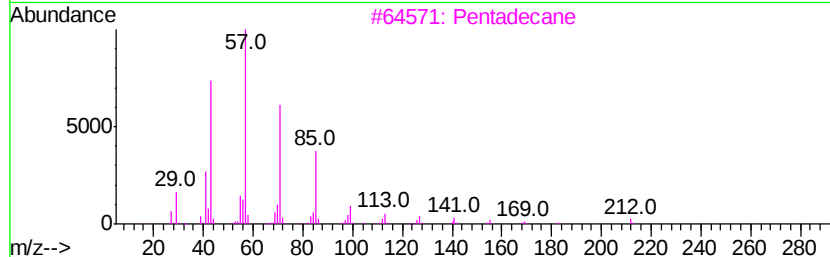
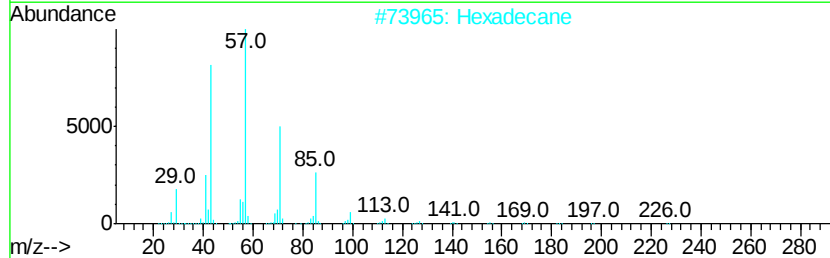
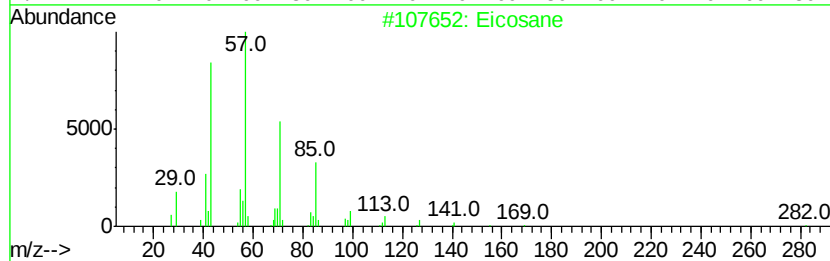
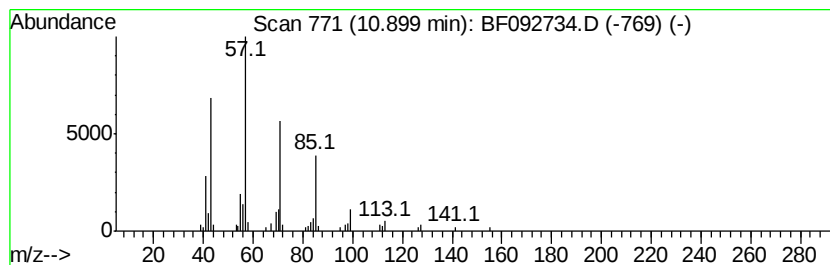
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TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Eicosane Concentration Rank 6

| R.T.      | EstConc              | Area  | Relative to ISTD |             | R.T.  |
|-----------|----------------------|-------|------------------|-------------|-------|
| 10.90     | 2.18 ng              | 82811 | Phenanthrene-d10 |             | 11.48 |
| Hit# of 5 | Tentative ID         | MW    | MolForm          | CAS#        | Qual  |
| 1         | Eicosane             | 282   | C20H42           | 000112-95-8 | 91    |
| 2         | Hexadecane           | 226   | C16H34           | 000544-76-3 | 90    |
| 3         | Pentadecane          | 212   | C15H32           | 000629-62-9 | 86    |
| 4         | Tridecane            | 184   | C13H28           | 000629-50-5 | 86    |
| 5         | Tetradecane, 1-iodo- | 324   | C14H29I          | 019218-94-1 | 80    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

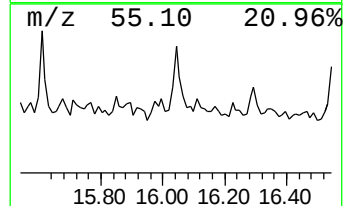
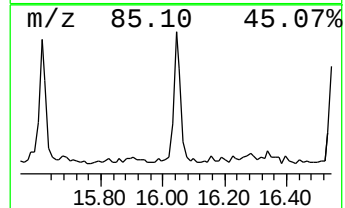
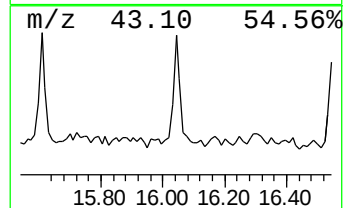
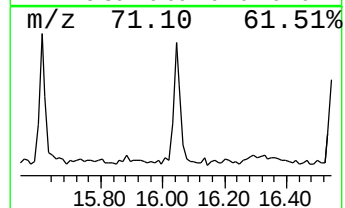
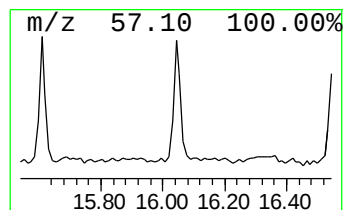
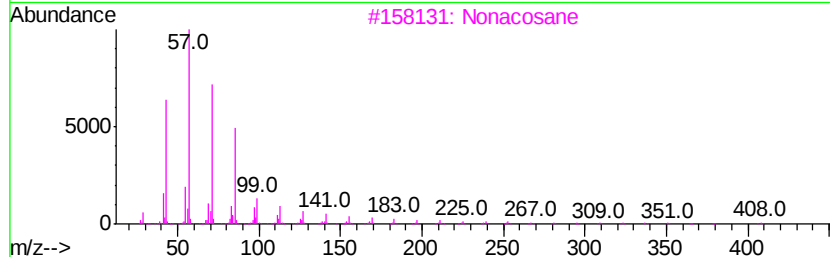
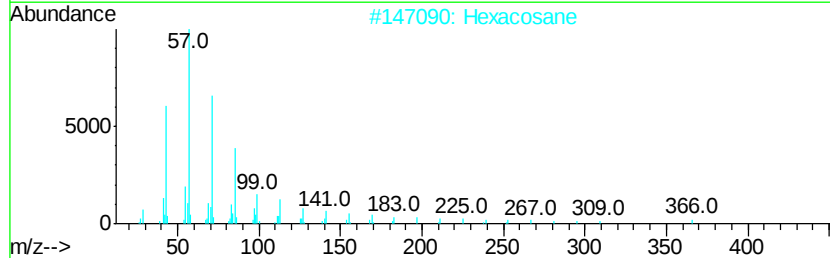
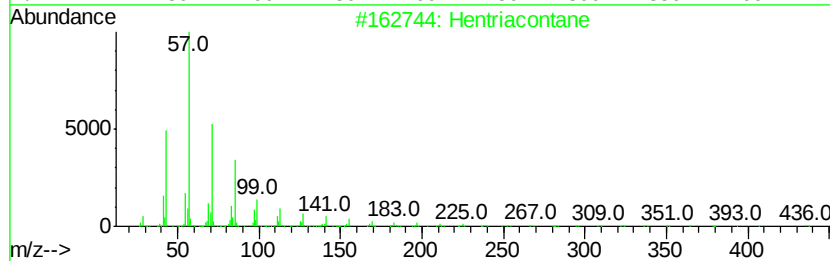
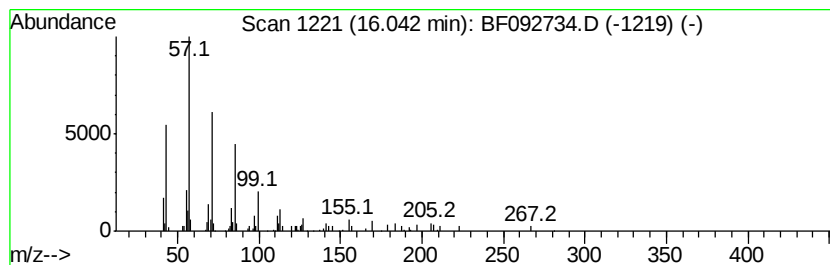
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Hentriacontane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.04 | 2.41 ng | 101648 | Perylene-d12     | 15.60 |

| Hit# of | 5                 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------------|--------------|-----|---------|-------------|------|
| 1       | Hentriacontane    |              | 437 | C31H64  | 000630-04-6 | 87   |
| 2       | Hexacosane        |              | 366 | C26H54  | 000630-01-3 | 83   |
| 3       | Nonacosane        |              | 408 | C29H60  | 000630-03-5 | 80   |
| 4       | Docosane          |              | 310 | C22H46  | 000629-97-0 | 80   |
| 5       | Dodecane, 1-iodo- |              | 296 | C12H25I | 004292-19-7 | 72   |



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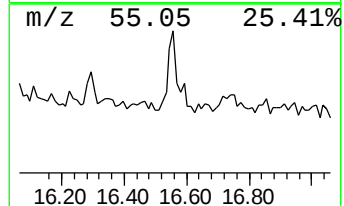
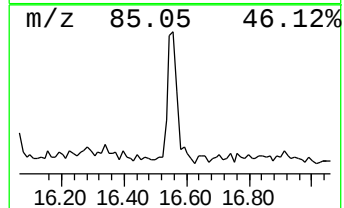
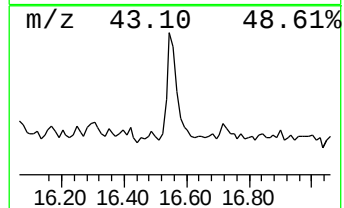
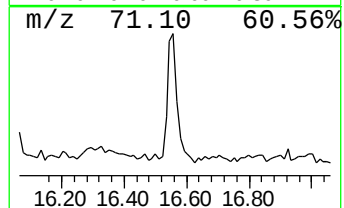
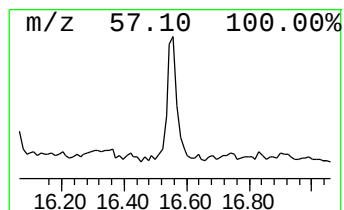
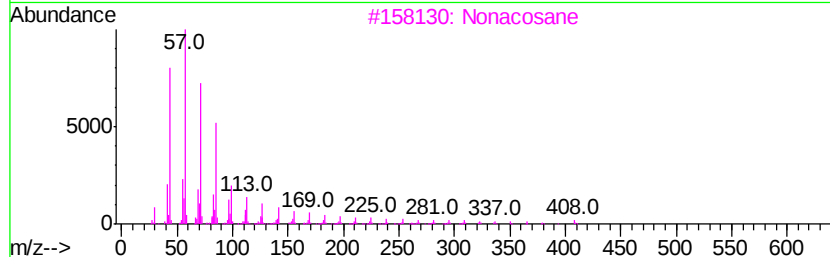
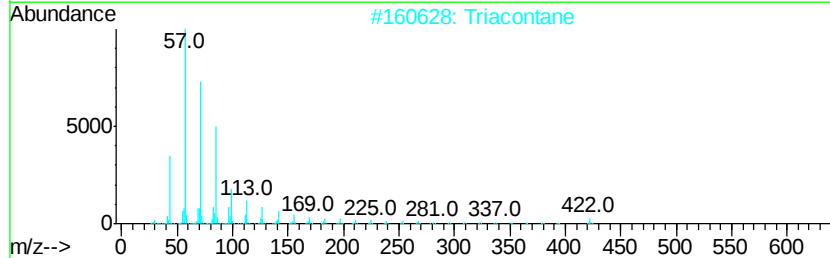
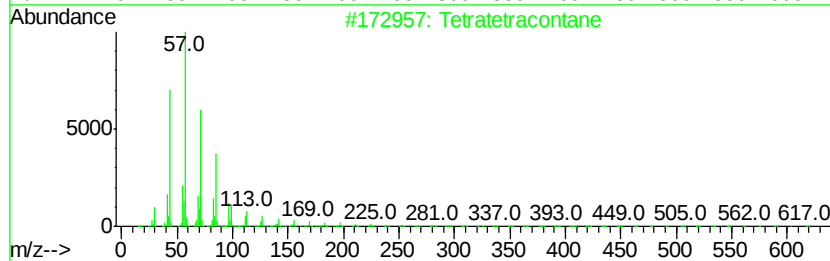
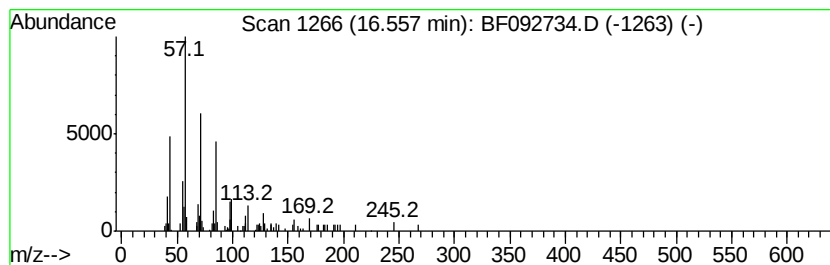
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Tetratetracontane Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.56 | 2.96 ng | 125070 | Perylene-d12     | 15.60 |

| Hit# of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------|-----|---------|-------------|------|
| 1       |   | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 90   |
| 2       |   | Triacontane       | 422 | C30H62  | 000638-68-6 | 90   |
| 3       |   | Nonacosane        | 408 | C29H60  | 000630-03-5 | 90   |
| 4       |   | Hentriacontane    | 437 | C31H64  | 000630-04-6 | 86   |
| 5       |   | Octadecane        | 254 | C18H38  | 000593-45-3 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020117\  
Data File : BF092734.D  
Acq On : 2 Feb 2017 6:15  
Operator : SJ/MA  
Sample : I1615-11  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-11

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

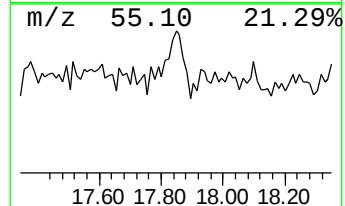
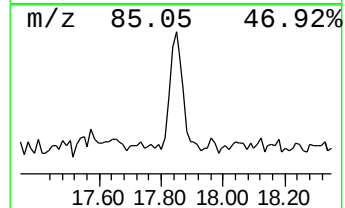
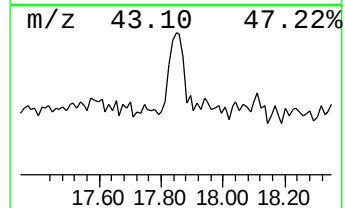
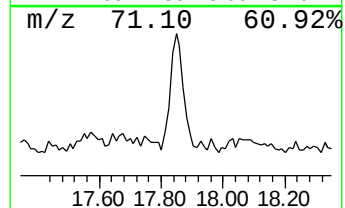
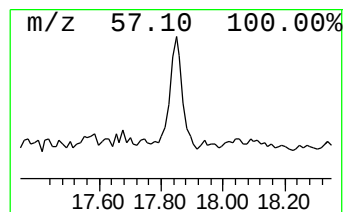
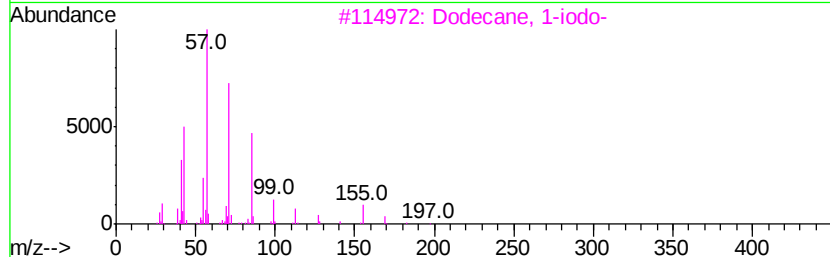
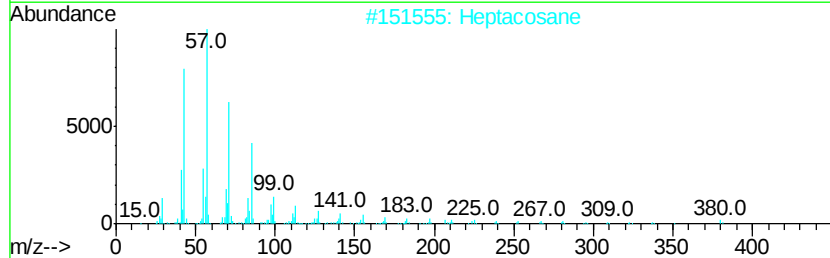
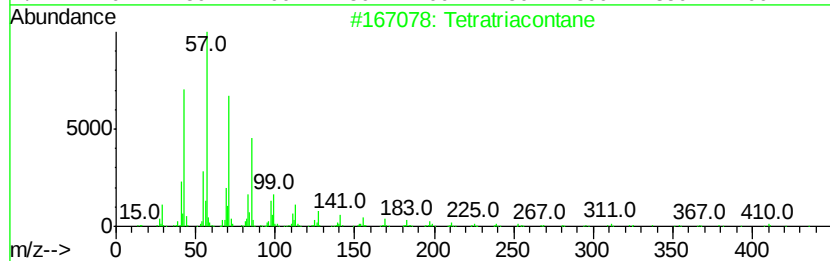
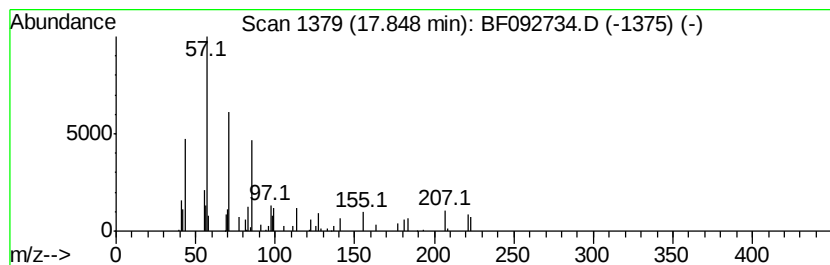
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Tetratriacontane Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.85 | 2.16 ng | 91023 | Perylene-d12     | 15.60 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Tetratriacontane  | 479 | C34H70  | 014167-59-0 | 80   |
| 2    |    | Heptacosane       | 380 | C27H56  | 000593-49-7 | 72   |
| 3    |    | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 72   |
| 4    |    | Pentacosane       | 352 | C25H52  | 000629-99-2 | 72   |
| 5    |    | Hexatriacontane   | 507 | C36H74  | 000630-06-8 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020117\  
Data File : BF092734.D  
Acq On : 2 Feb 2017 6:15  
Operator : SJ/MA  
Sample : I1615-11  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-11

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 2-Pentanone, 4-hy... | 5.14  | 37.4    | ng    | 1766030  | 1                     | 6.94  | 943940 | 20.0 |
| unknown6.72          | 6.72  | 70.4    | ng    | 3324710  | 1                     | 6.94  | 943940 | 20.0 |
| Eicosane             | 10.90 | 2.2     | ng    | 82811    | 4                     | 11.48 | 760366 | 20.0 |
| Hentriacontane       | 16.04 | 2.4     | ng    | 101648   | 6                     | 15.60 | 843916 | 20.0 |
| Tetratetracontane    | 16.56 | 3.0     | ng    | 125070   | 6                     | 15.60 | 843916 | 20.0 |
| Tetratriacontane     | 17.85 | 2.2     | ng    | 91023    | 6                     | 15.60 | 843916 | 20.0 |