

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100716\  
 Data File : BF090439.D  
 Acq On : 7 Oct 2016 12:12  
 Operator : UM/SJ  
 Sample : H5121-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T-1

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-BF100516.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         | 3.446       | 95            | 97          | 105          | rBV2     | 116645         | 234055        | 2.53%           | 0.341%        |
| 2         | 5.194       | 247           | 250         | 255          | rVB      | 1252447        | 1685646       | 18.23%          | 2.456%        |
| 3         | 5.594       | 282           | 285         | 288          | rBV      | 5158090        | 6441814       | 69.66%          | 9.385%        |
| 4         | 6.566       | 366           | 370         | 371          | rBV      | 68171          | 94465         | 1.02%           | 0.138%        |
| 5         | 6.612       | 371           | 374         | 376          | rVB      | 5796612        | 6533015       | 70.64%          | 9.518%        |
| 6         | 6.749       | 383           | 386         | 389          | rBV      | 4988500        | 6921633       | 74.85%          | 10.084%       |
| 7         | 6.989       | 404           | 407         | 409          | rBV      | 1196407        | 1346557       | 14.56%          | 1.962%        |
| 8         | 7.137       | 418           | 420         | 423          | rVB      | 3788709        | 5207533       | 56.31%          | 7.587%        |
| 9         | 7.549       | 453           | 456         | 458          | rBV      | 4208589        | 4469904       | 48.34%          | 6.512%        |
| 10        | 8.269       | 517           | 519         | 521          | rBV      | 1784113        | 1816797       | 19.65%          | 2.647%        |
| 11        | 9.355       | 610           | 614         | 616          | rBV      | 7683413        | 7743788       | 83.74%          | 11.281%       |
| 12        | 9.743       | 645           | 648         | 650          | rBV      | 1829551        | 1642256       | 17.76%          | 2.393%        |
| 13        | 10.029      | 671           | 673         | 676          | rVB      | 1561241        | 2060332       | 22.28%          | 3.002%        |
| 14        | 10.463      | 707           | 711         | 713          | rBV2     | 58572          | 96006         | 1.04%           | 0.140%        |
| 15        | 10.829      | 739           | 743         | 745          | rBV      | 5003949        | 5305004       | 57.37%          | 7.729%        |
| 16        | 10.943      | 750           | 753         | 758          | rVB      | 95394          | 136382        | 1.47%           | 0.199%        |
| 17        | 11.389      | 790           | 792         | 794          | rBV2     | 118186         | 112281        | 1.21%           | 0.164%        |
| 18        | 11.526      | 801           | 804         | 806          | rBV      | 2651174        | 2347472       | 25.38%          | 3.420%        |
| 19        | 12.052      | 847           | 850         | 852          | rBV      | 188500         | 269500        | 2.91%           | 0.393%        |
| 20        | 12.841      | 916           | 919         | 925          | rBV      | 314145         | 423975        | 4.58%           | 0.618%        |
| 21        | 13.126      | 940           | 944         | 946          | rBV      | 6298594        | 9247727       | 100.00%         | 13.472%       |
| 22        | 14.007      | 1019          | 1021        | 1029         | rBV2     | 359868         | 519336        | 5.62%           | 0.757%        |
| 23        | 14.167      | 1033          | 1035        | 1038         | rBV      | 1696267        | 2157104       | 23.33%          | 3.143%        |
| 24        | 15.675      | 1163          | 1167        | 1169         | rBV      | 1110548        | 1735908       | 18.77%          | 2.529%        |
| 25        | 16.693      | 1253          | 1256        | 1265         | rVB2     | 26701          | 93049         | 1.01%           | 0.136%        |

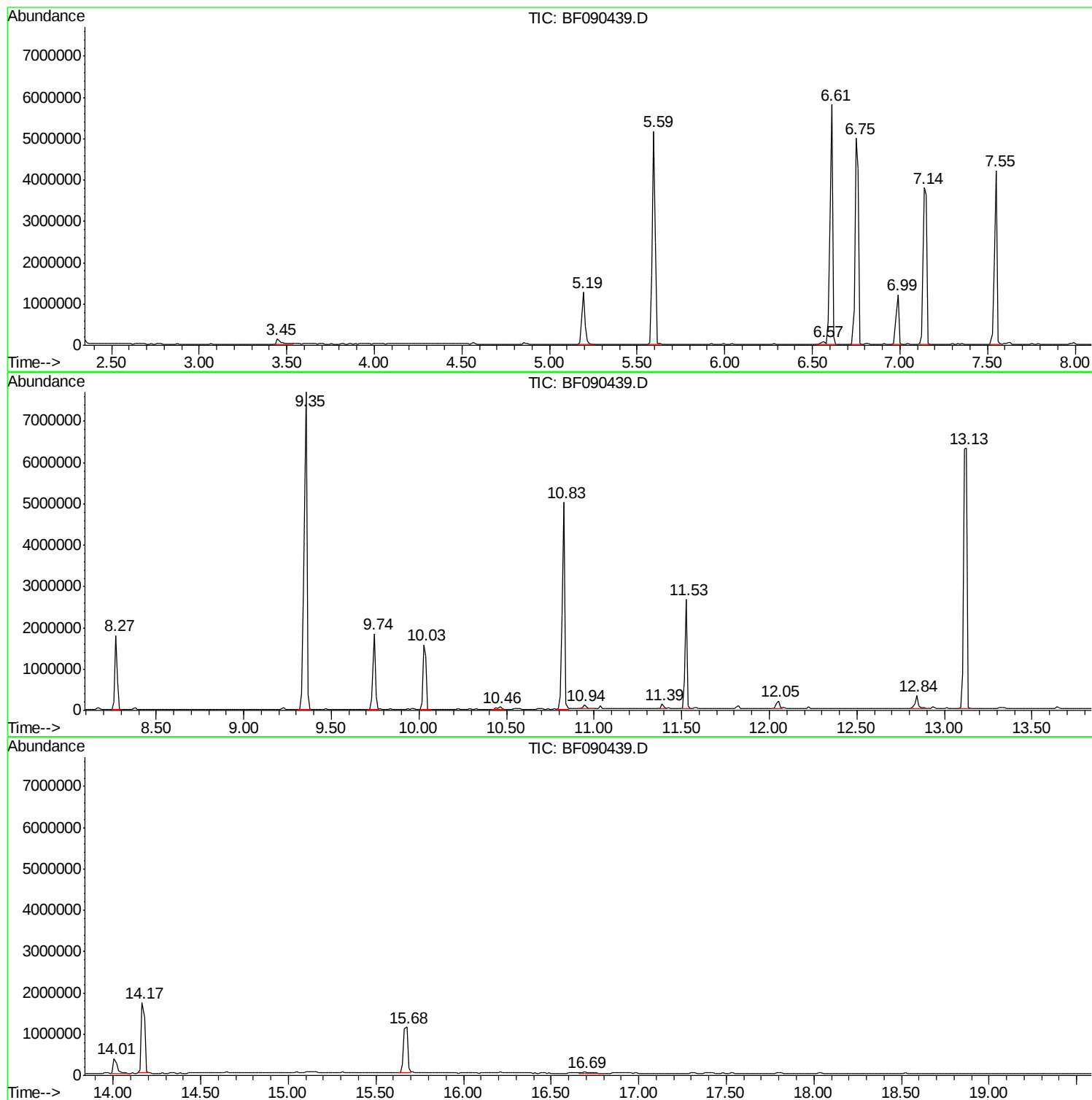
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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
T-1

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF100516.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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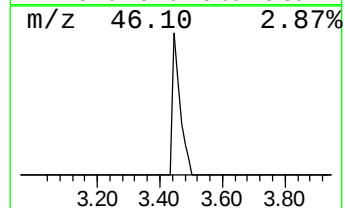
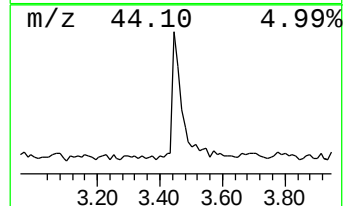
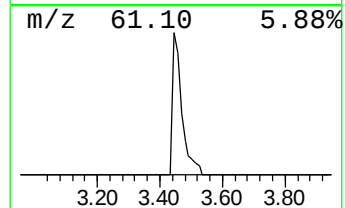
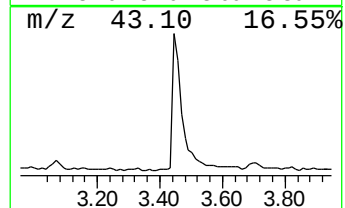
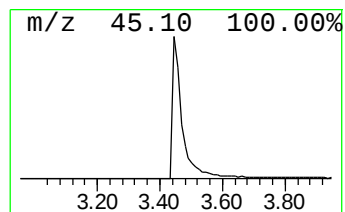
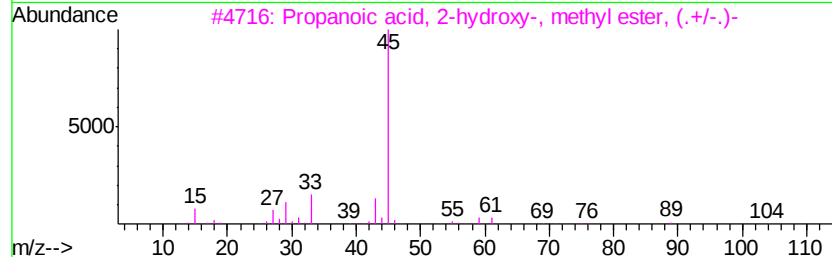
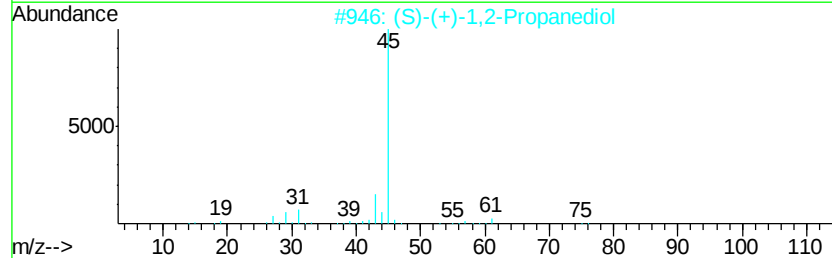
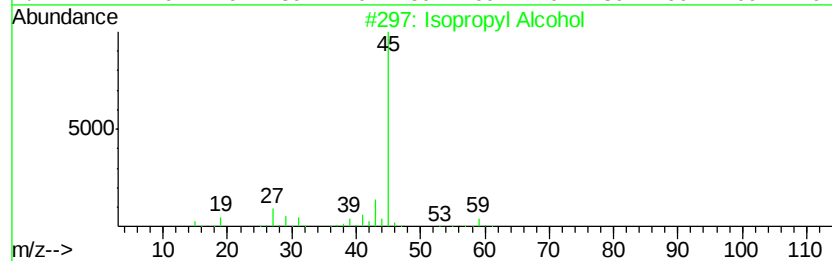
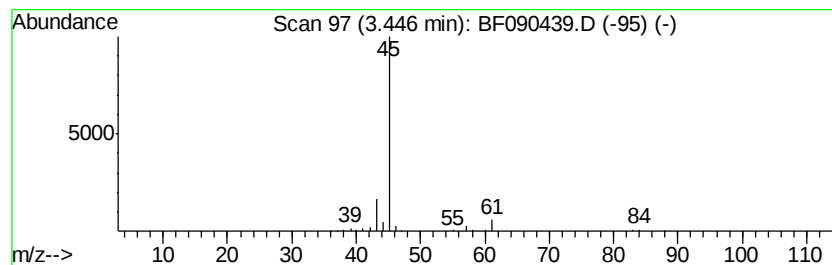
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Isopropyl Alcohol Concentration Rank 6

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 3.45 | 3.48 ng | 234055 | 1,4-Dichlorobenzene-d4 | 6.99 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Isopropyl Alcohol                   | 60  | C3H8O   | 000067-63-0 | 80   |
| 2       |   | (S)-(+)-1,2-Propanediol             | 76  | C3H8O2  | 004254-15-3 | 43   |
| 3       |   | Propanoic acid, 2-hydroxy-, meth... | 104 | C4H8O3  | 002155-30-8 | 9    |
| 4       |   | Propylene Glycol                    | 76  | C3H8O2  | 000057-55-6 | 9    |
| 5       |   | Formamide                           | 45  | CH3NO   | 000075-12-7 | 7    |



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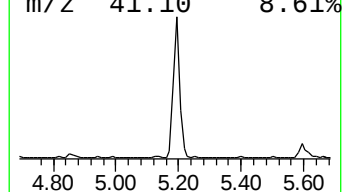
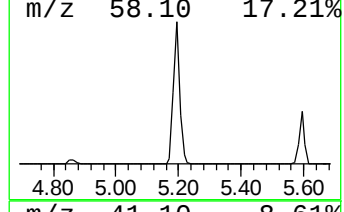
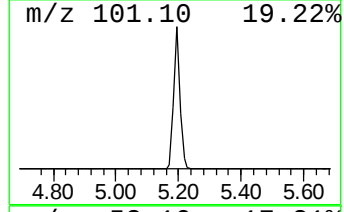
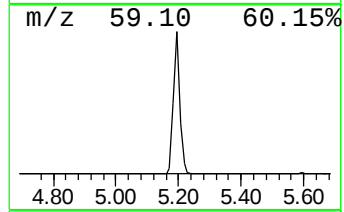
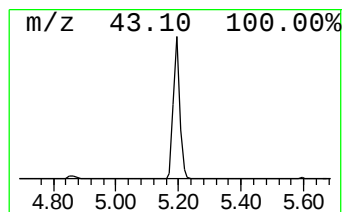
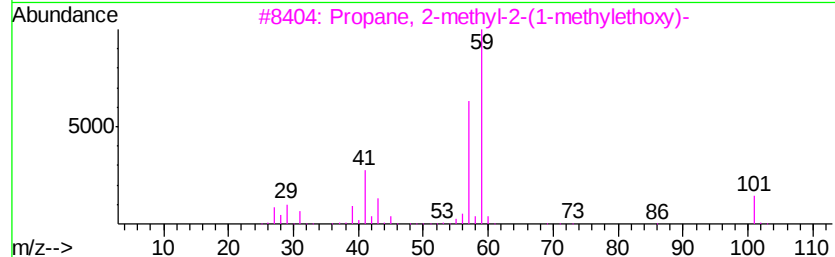
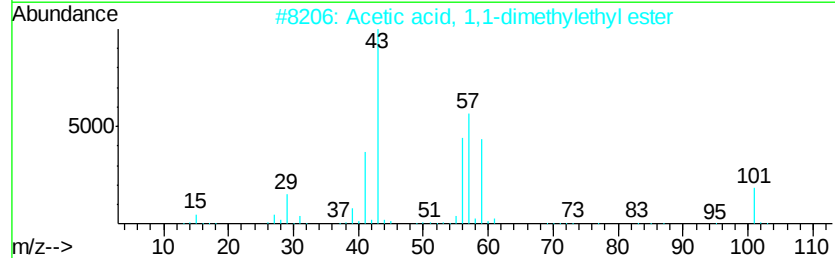
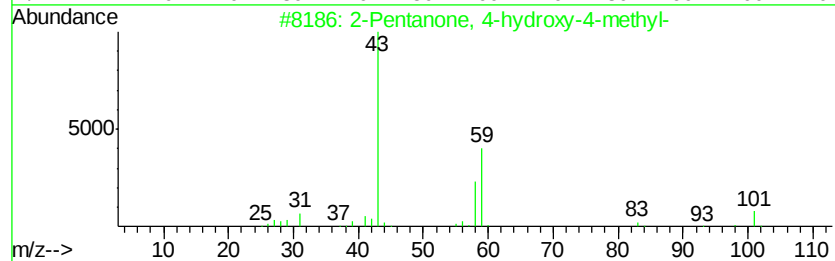
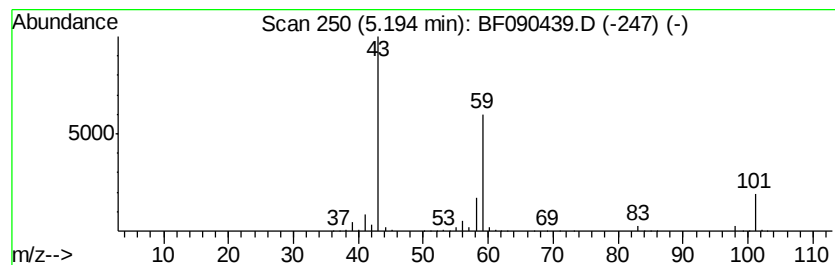
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TIC Integration Parameters: LSCINT.P

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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. |
|------|----------|---------|------------------------|------|
| 5.19 | 25.04 ng | 1685650 | 1,4-Dichlorobenzene-d4 | 6.99 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2  | 000540-88-5 | 39   |
| 3    |    | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O   | 017348-59-3 | 28   |
| 4    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 5    |    | Acetone                             | 58  | C3H6O    | 000067-64-1 | 9    |



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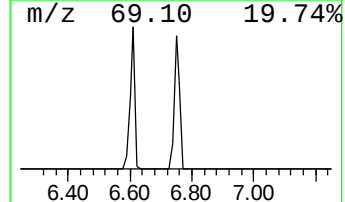
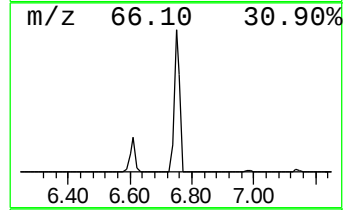
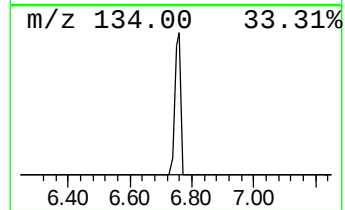
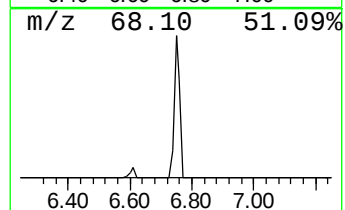
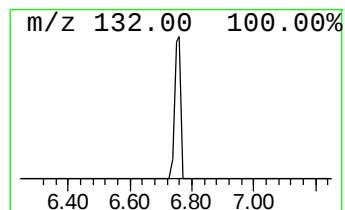
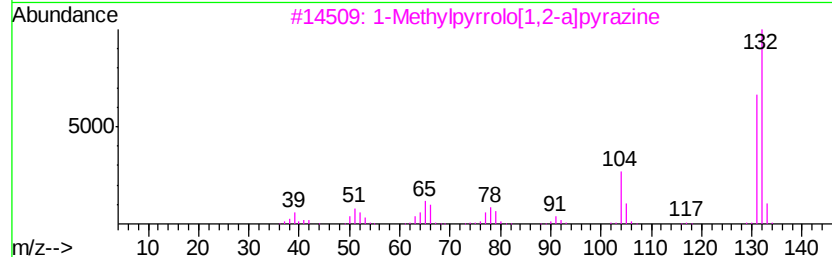
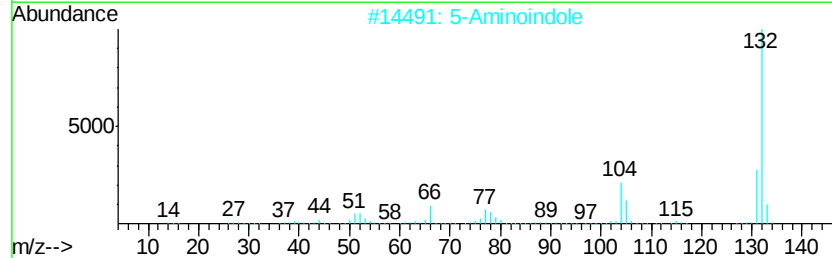
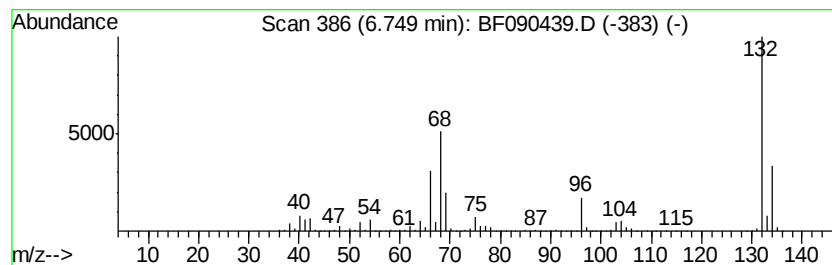
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown6.75 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 6.75 | 102.81 ng | 6921630 | 1,4-Dichlorobenzene-d4 | 6.99 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 2    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    | 1-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-59-9  | 9    |
| 4    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 9    |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |



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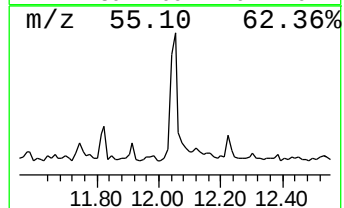
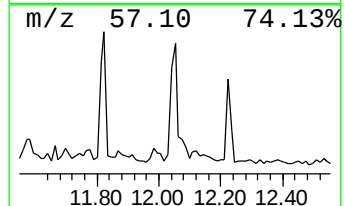
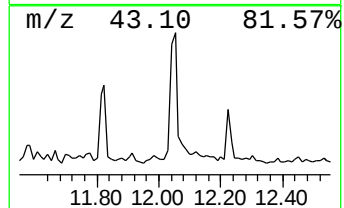
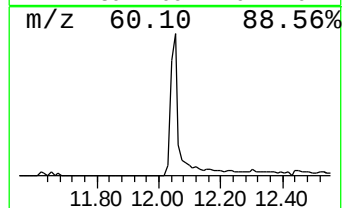
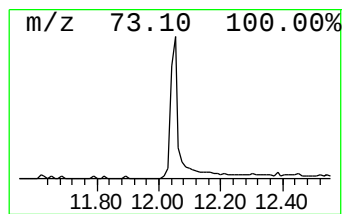
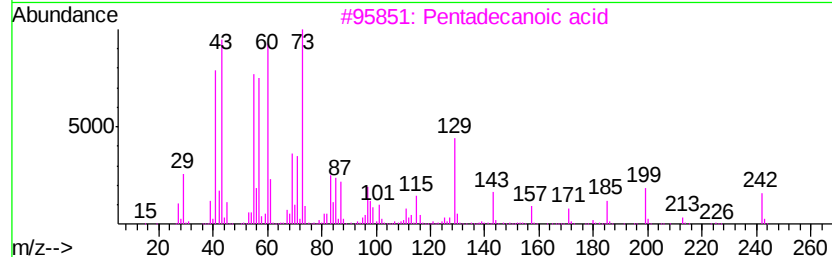
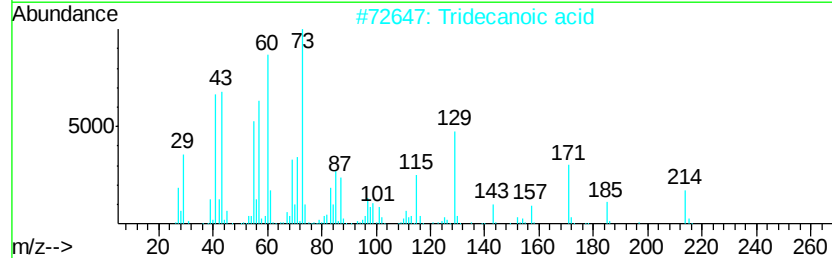
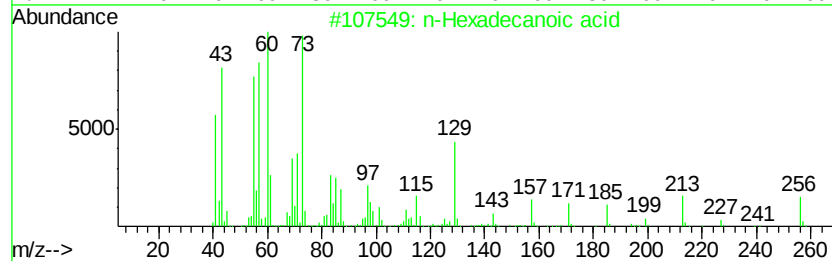
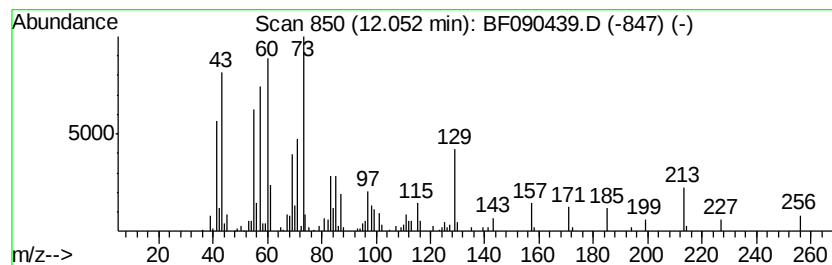
Instrument :  
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 n-Hexadecanoic acid Concentration Rank 7

| R.T.    | EstConc | Area                | Relative to ISTD |          | R.T.        |      |
|---------|---------|---------------------|------------------|----------|-------------|------|
| 12.05   | 2.30 ng | 269500              | Phenanthrene-d10 |          | 11.53       |      |
| Hit# of | 5       | Tentative ID        | MW               | MolForm  | CAS#        | Qual |
| 1       |         | n-Hexadecanoic acid | 256              | C16H32O2 | 000057-10-3 | 99   |
| 2       |         | Tridecanoic acid    | 214              | C13H26O2 | 000638-53-9 | 86   |
| 3       |         | Pentadecanoic acid  | 242              | C15H30O2 | 001002-84-2 | 81   |
| 4       |         | Tetradecanoic acid  | 228              | C14H28O2 | 000544-63-8 | 64   |
| 5       |         | n-Decanoic acid     | 172              | C10H20O2 | 000334-48-5 | 62   |



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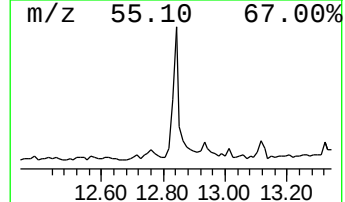
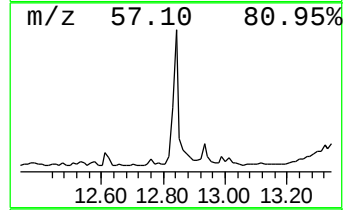
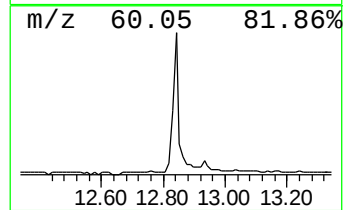
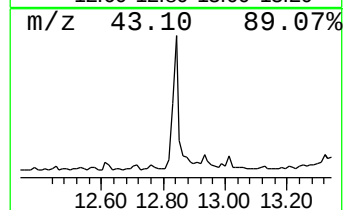
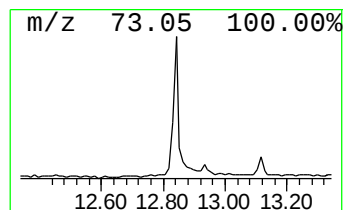
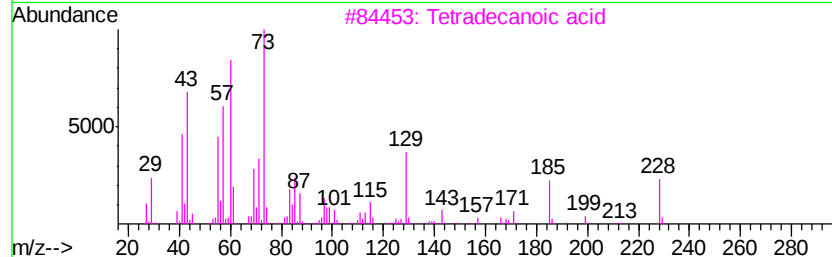
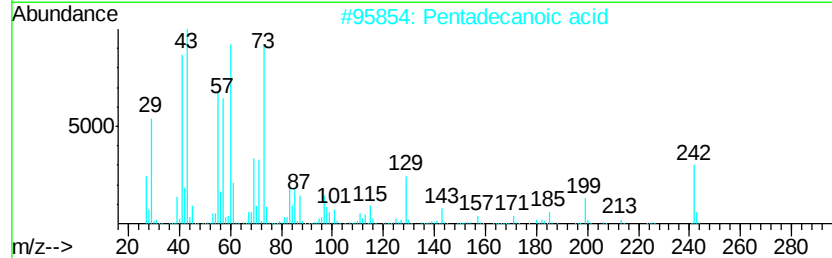
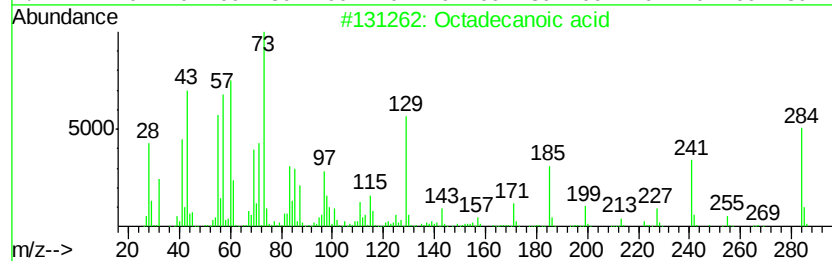
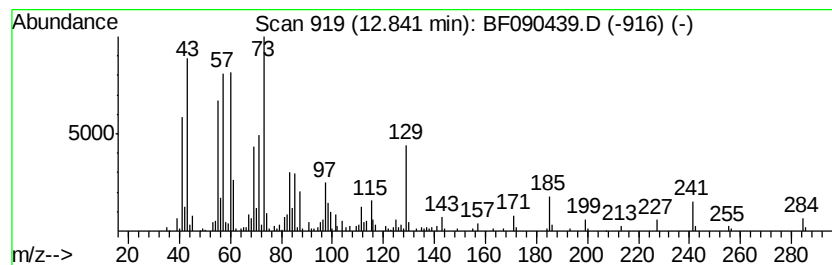
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\*\*\*\*\*  
Peak Number 6 Octadecanoic acid Concentration Rank 5

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 12.84     | 3.61 ng             | 423975 | Phenanthrene-d10 |             | 11.53 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | Octadecanoic acid   | 284    | C18H36O2         | 000057-11-4 | 99    |
| 2         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 91    |
| 3         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 87    |
| 4         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 74    |
| 5         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 68    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100716\  
Data File : BF090439.D  
Acq On : 7 Oct 2016 12:12  
Operator : UM/SJ  
Sample : H5121-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

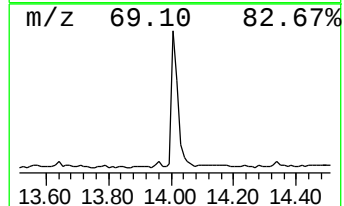
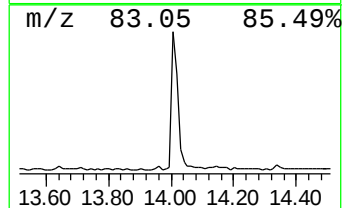
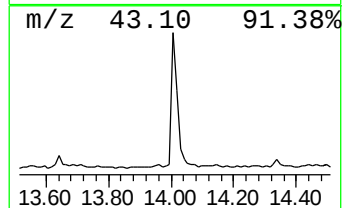
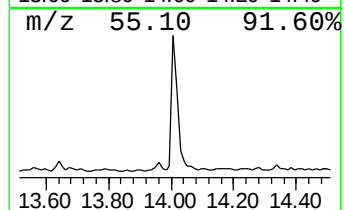
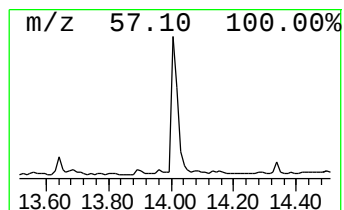
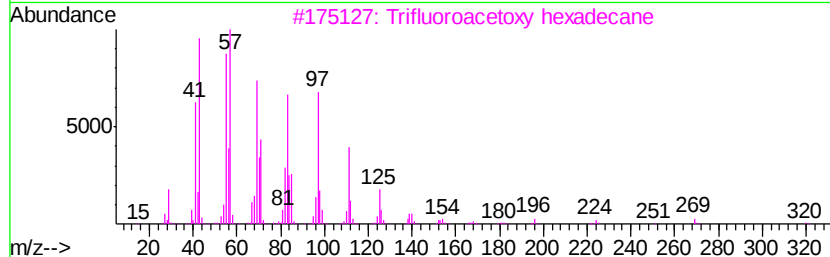
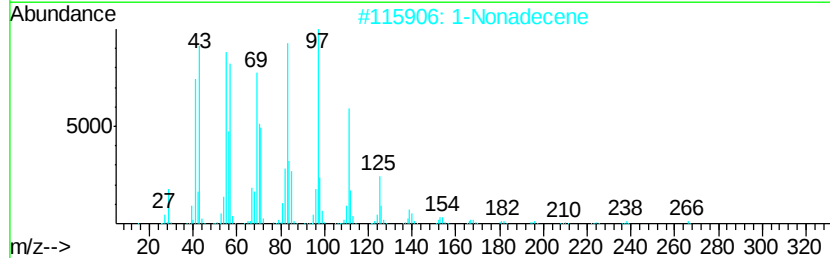
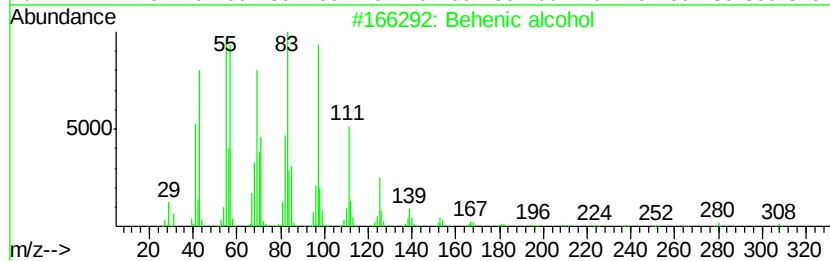
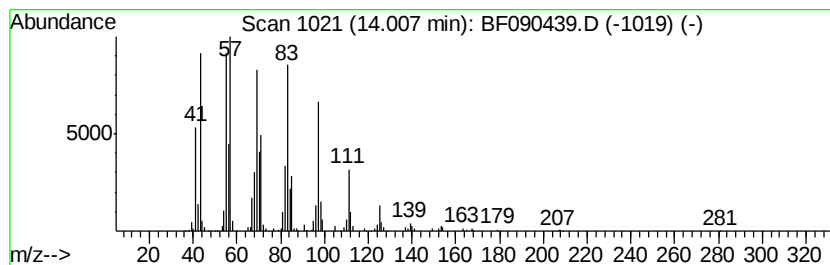
Instrument :  
BNA\_F  
ClientSampleId :  
T-1

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF100516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Behenic alcohol Concentration Rank 4

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.           |
|---------|---------|-------------------------------------|------------------|----------------|
| 14.01   | 4.82 ng | 519336                              | Chrysene-d12     | 14.18          |
| Hit# of | 5       | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |         | Behenic alcohol                     | 326 C22H46O      | 000661-19-8 94 |
| 2       |         | 1-Nonadecene                        | 266 C19H38       | 018435-45-5 91 |
| 3       |         | Trifluoroacetoxy hexadecane         | 338 C18H33F3O2   | 006222-03-3 91 |
| 4       |         | 1-Heneicosanol                      | 312 C21H44O      | 015594-90-8 91 |
| 5       |         | Trichloroacetic acid, hexadecyl ... | 386 C18H33Cl3O2  | 074339-54-1 91 |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100716\  
Data File : BF090439.D  
Acq On : 7 Oct 2016 12:12  
Operator : UM/SJ  
Sample : H5121-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
T-1

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF100516.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 |
| Isopropyl Alcohol    | 3.45  | 3.5     | ng    | 234055   | 1                     | 6.99  | 1346560 | 20.0 |
| 2-Pentanone, 4-hy... | 5.19  | 25.0    | ng    | 1685650  | 1                     | 6.99  | 1346560 | 20.0 |
| unknown6.75          | 6.75  | 102.8   | ng    | 6921630  | 1                     | 6.99  | 1346560 | 20.0 |
| n-Hexadecanoic acid  | 12.05 | 2.3     | ng    | 269500   | 4                     | 11.53 | 2347470 | 20.0 |
| Octadecanoic acid    | 12.84 | 3.6     | ng    | 423975   | 4                     | 11.53 | 2347470 | 20.0 |
| Behenic alcohol      | 14.01 | 4.8     | ng    | 519336   | 5                     | 14.18 | 2157100 | 20.0 |