

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060715\  
 Data File : BF079799.D  
 Acq On : 7 Jun 2015 7:41  
 Operator : TP/IZ  
 Sample : G2508-03  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UNDERCUTAB-2(0-2)

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-BF060515.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         | 1.495       | 21            | 27          | 29           | rBV3     | 119670         | 347101        | 5.09%           | 1.315%        |
| 2         | 1.678       | 42            | 43          | 72           | rVB3     | 198147         | 1369778       | 20.08%          | 5.188%        |
| 3         | 2.227       | 90            | 91          | 105          | rVB      | 94562          | 256980        | 3.77%           | 0.973%        |
| 4         | 2.421       | 105           | 108         | 111          | rBV      | 4456351        | 6821634       | 100.00%         | 25.835%       |
| 5         | 2.878       | 145           | 148         | 151          | rBV      | 248869         | 354451        | 5.20%           | 1.342%        |
| 6         | 5.713       | 393           | 396         | 399          | rVB      | 144066         | 175163        | 2.57%           | 0.663%        |
| 7         | 6.090       | 427           | 429         | 432          | rBV      | 2097498        | 1799410       | 26.38%          | 6.815%        |
| 8         | 7.073       | 512           | 515         | 517          | rBV      | 1812137        | 1925409       | 28.23%          | 7.292%        |
| 9         | 7.244       | 527           | 530         | 532          | rBV      | 2008563        | 1942192       | 28.47%          | 7.355%        |
| 10        | 7.473       | 548           | 550         | 552          | rVB      | 400157         | 353558        | 5.18%           | 1.339%        |
| 11        | 7.633       | 562           | 564         | 567          | rBV      | 1632073        | 1461198       | 21.42%          | 5.534%        |
| 12        | 8.033       | 596           | 599         | 601          | rBV      | 1143106        | 1091849       | 16.01%          | 4.135%        |
| 13        | 8.765       | 661           | 663         | 666          | rVB      | 577594         | 535469        | 7.85%           | 2.028%        |
| 14        | 9.839       | 755           | 757         | 760          | rVB      | 2596169        | 2342942       | 34.35%          | 8.873%        |
| 15        | 10.548      | 817           | 819         | 821          | rBV      | 450625         | 514480        | 7.54%           | 1.948%        |
| 16        | 11.336      | 886           | 888         | 891          | rBV      | 1288429        | 1127033       | 16.52%          | 4.268%        |
| 17        | 12.056      | 949           | 951         | 953          | rBV      | 563942         | 563461        | 8.26%           | 2.134%        |
| 18        | 13.737      | 1095          | 1098        | 1101         | rBV      | 2393610        | 2186946       | 32.06%          | 8.282%        |
| 19        | 15.017      | 1207          | 1210        | 1212         | rBV      | 510748         | 600641        | 8.80%           | 2.275%        |
| 20        | 16.960      | 1376          | 1380        | 1383         | rBV      | 395815         | 635059        | 9.31%           | 2.405%        |

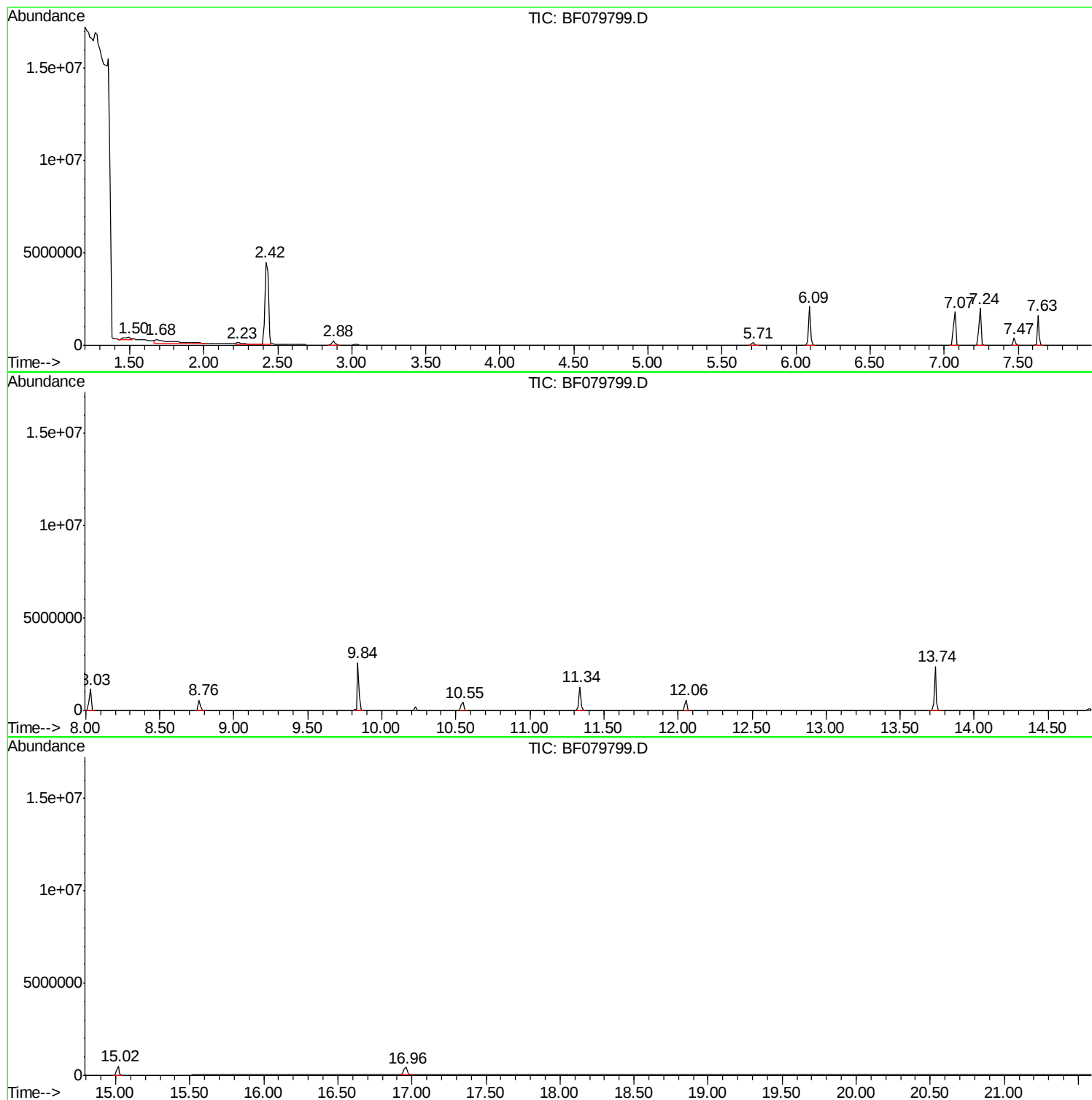
Sum of corrected areas: 26404754

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060715\  
Data File : BF079799.D  
Acq On : 7 Jun 2015 7:41  
Operator : TP/IZ  
Sample : G2508-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UNDERCUTAB-2(0-2)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060515.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060715\  
Data File : BF079799.D  
Acq On : 7 Jun 2015 7:41  
Operator : TP/IZ  
Sample : G2508-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UNDERCUTAB-2(0-2)

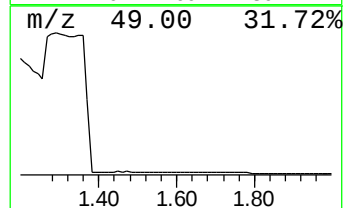
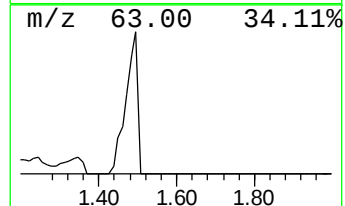
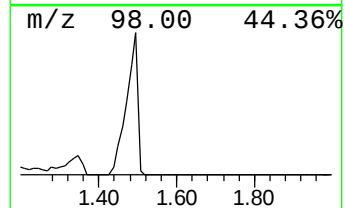
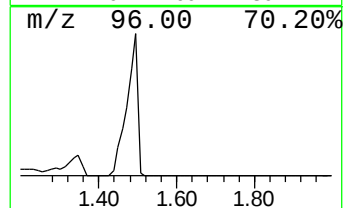
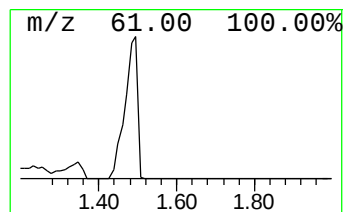
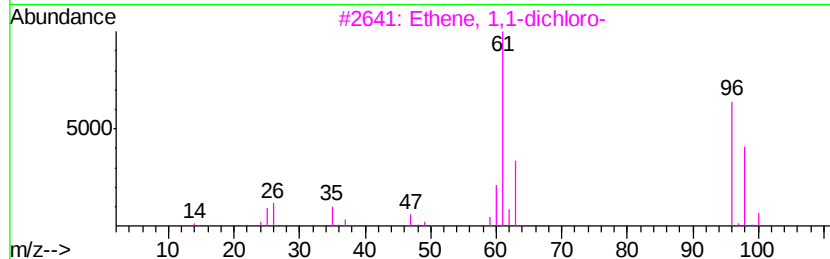
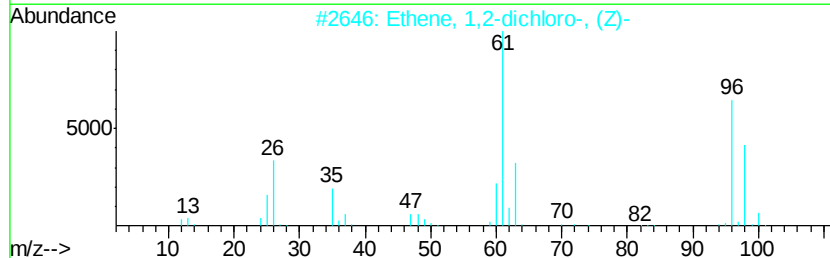
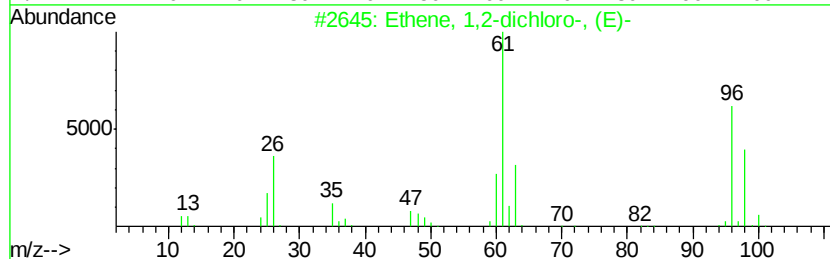
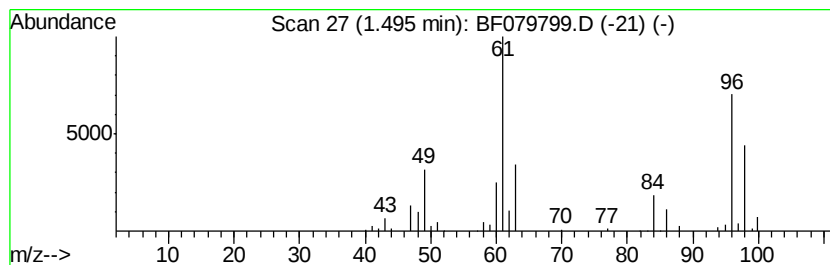
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060515.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Ethene, 1,2-dichloro-, (E)- Concentration Rank 6

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 1.50 | 19.63 ng | 347101 | 1,4-Dichlorobenzene-d4 | 7.47 |

| Hit# | of | Tentative ID                | MW | MolForm | CAS#        | Qual |
|------|----|-----------------------------|----|---------|-------------|------|
| 1    | 5  | Ethene, 1,2-dichloro-, (E)- | 96 | C2H2Cl2 | 000156-60-5 | 92   |
| 2    |    | Ethene, 1,2-dichloro-, (Z)- | 96 | C2H2Cl2 | 000156-59-2 | 92   |
| 3    |    | Ethene, 1,1-dichloro-       | 96 | C2H2Cl2 | 000075-35-4 | 70   |
| 4    |    | 1,2-Dichloroethylene        | 96 | C2H2Cl2 | 000540-59-0 | 52   |
| 5    |    | Chloromethylmethyl sulfide  | 96 | C2H5ClS | 002373-51-5 | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060715\  
Data File : BF079799.D  
Acq On : 7 Jun 2015 7:41  
Operator : TP/IZ  
Sample : G2508-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UNDERCUTAB-2(0-2)

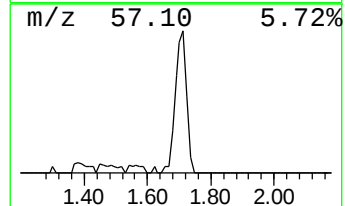
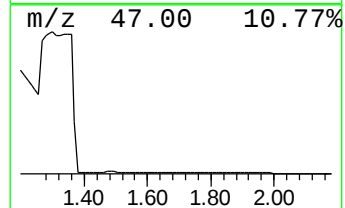
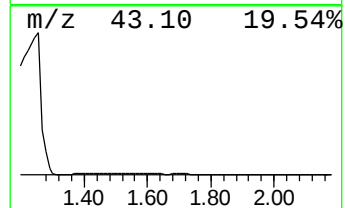
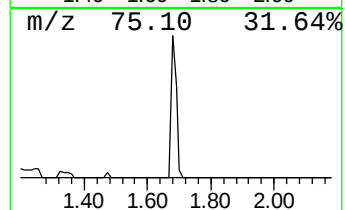
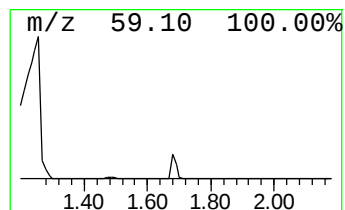
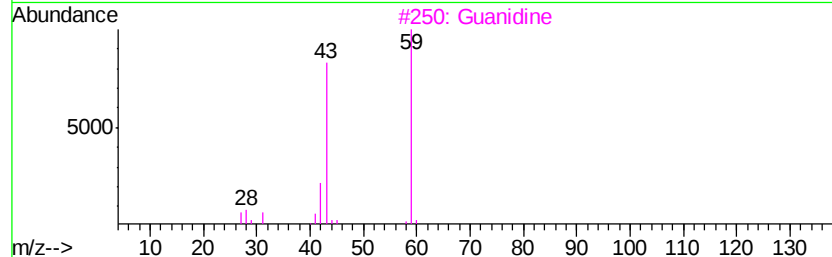
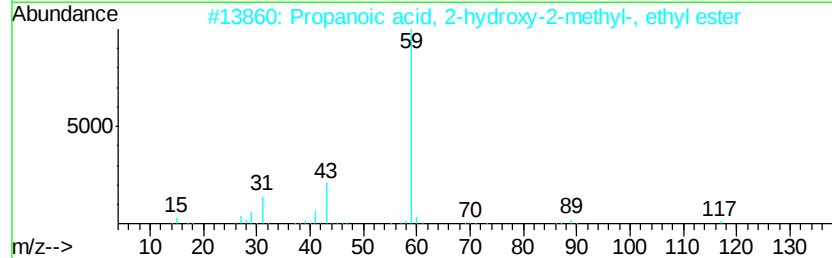
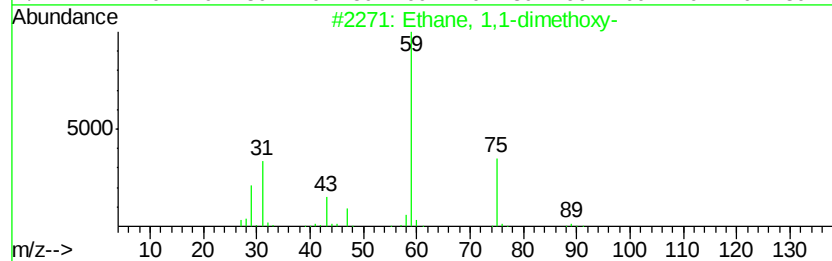
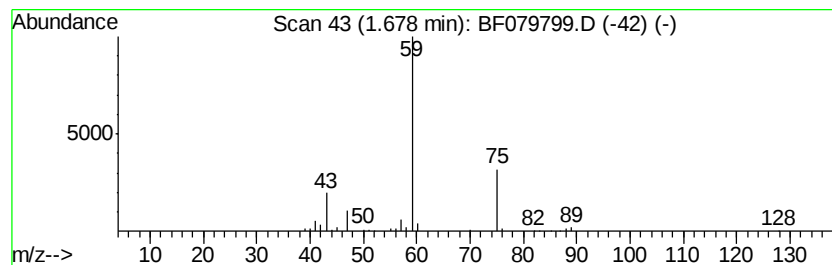
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060515.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 Ethane, 1,1-dimethoxy- Concentration Rank 4

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 1.68 | 77.49 ng | 1369780 | 1,4-Dichlorobenzene-d4 | 7.47 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Ethane, 1,1-dimethoxy-              | 90  | C4H10O2 | 000534-15-6 | 78   |
| 2    |    |   | Propanoic acid, 2-hydroxy-2-meth... | 132 | C6H12O3 | 000080-55-7 | 42   |
| 3    |    |   | Guanidine                           | 59  | CH5N3   | 000113-00-8 | 40   |
| 4    |    |   | 1,2-Butanediol                      | 90  | C4H10O2 | 000584-03-2 | 33   |
| 5    |    |   | Butane, 2-methoxy-                  | 88  | C5H12O  | 006795-87-5 | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060715\  
Data File : BF079799.D  
Acq On : 7 Jun 2015 7:41  
Operator : TP/IZ  
Sample : G2508-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UNDERCUTAB-2(0-2)

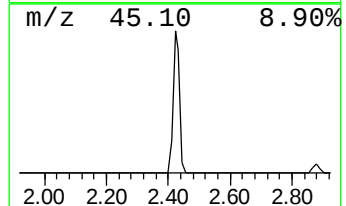
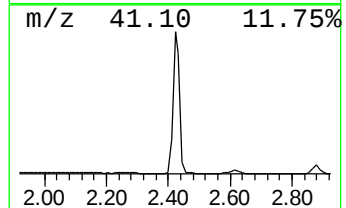
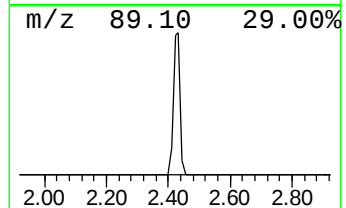
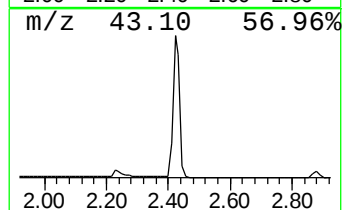
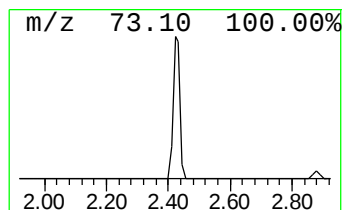
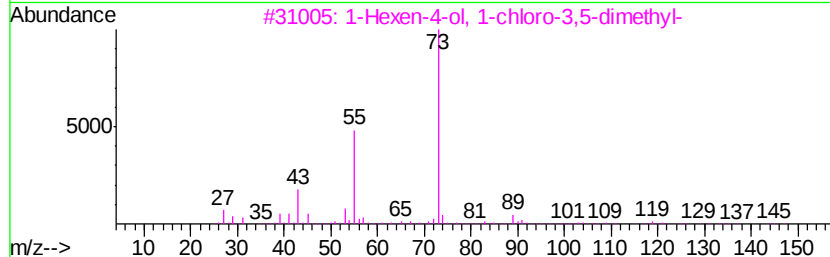
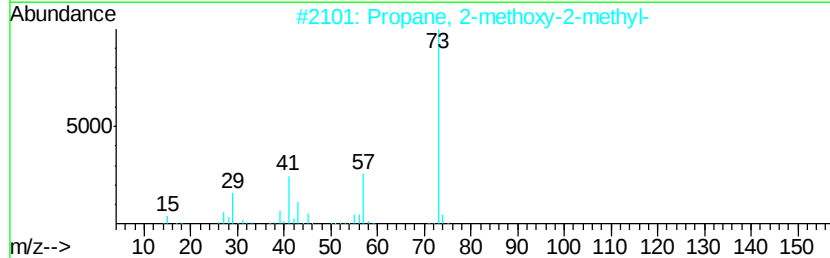
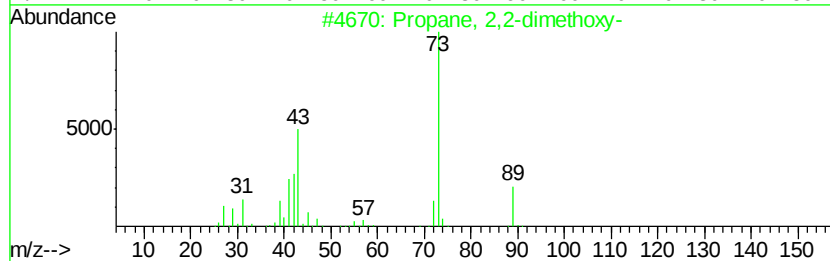
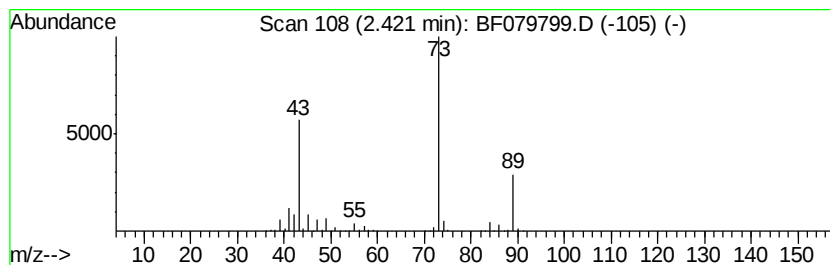
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060515.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 Propane, 2,2-dimethoxy- Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 2.42 | 385.89 ng | 6821630 | 1,4-Dichlorobenzene-d4 | 7.47 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Propane, 2,2-dimethoxy-             | 104 | C5H12O2  | 000077-76-9 | 53   |
| 2    |    | Propane, 2-methoxy-2-methyl-        | 88  | C5H12O   | 001634-04-4 | 9    |
| 3    |    | 1-Hexen-4-ol, 1-chloro-3,5-dimet... | 162 | C8H15ClO | 100244-09-5 | 9    |
| 4    |    | 2-Butanone, 3-methoxy-3-methyl-     | 116 | C6H12O2  | 036687-98-6 | 9    |
| 5    |    | 2-Hydroxy-2-methylbutyric acid      | 118 | C5H10O3  | 003739-30-8 | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060715\  
Data File : BF079799.D  
Acq On : 7 Jun 2015 7:41  
Operator : TP/IZ  
Sample : G2508-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UNDERCUTAB-2(0-2)

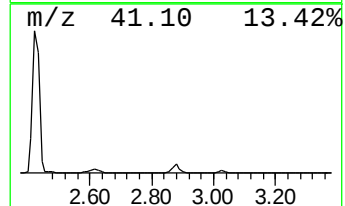
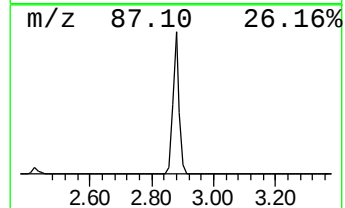
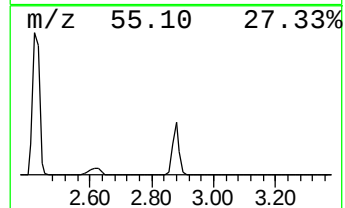
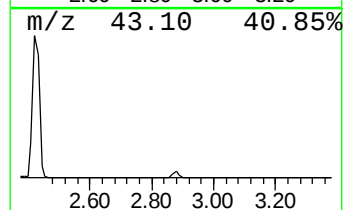
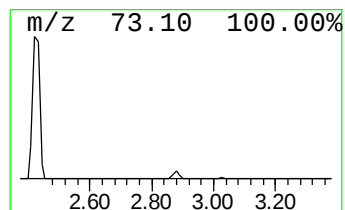
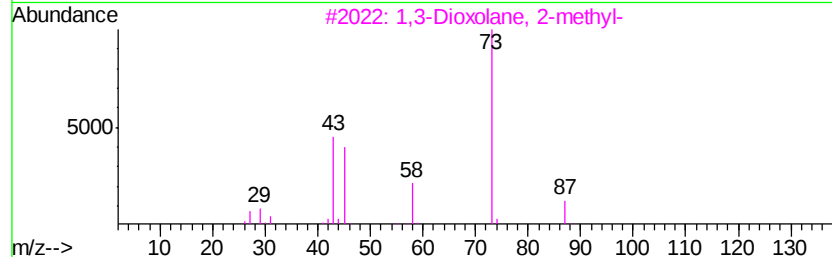
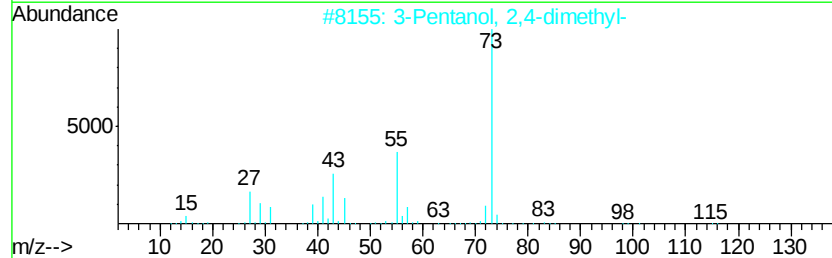
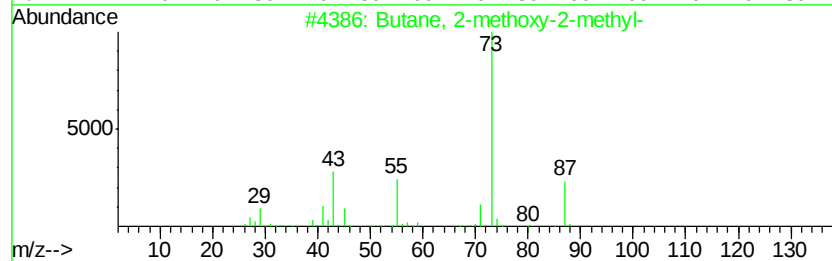
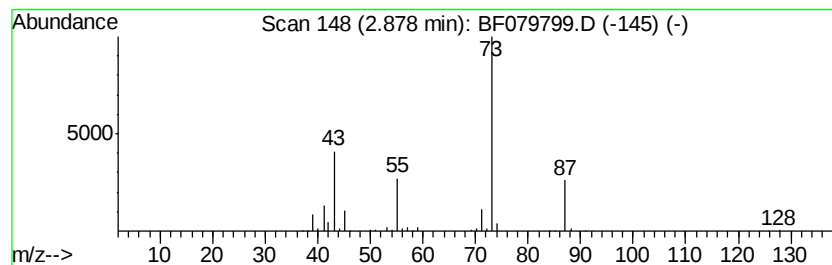
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060515.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 Butane, 2-methoxy-2-methyl- Concentration Rank 5

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 2.88 | 20.05 ng | 354451 | 1,4-Dichlorobenzene-d4 | 7.47 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | 3-Pentanol, 2,4-dimethyl-   | 116 | C7H16O  | 000600-36-2 | 37   |
| 3    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 32   |
| 4    |    | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 22   |
| 5    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 17   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060715\  
Data File : BF079799.D  
Acq On : 7 Jun 2015 7:41  
Operator : TP/IZ  
Sample : G2508-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UNDERCUTAB-2(0-2)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060515.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

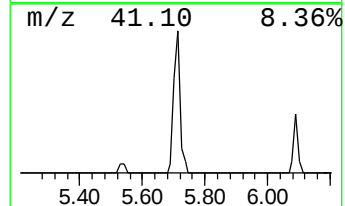
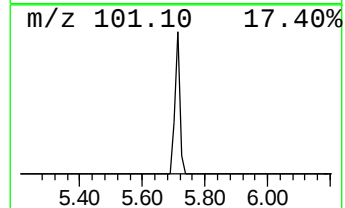
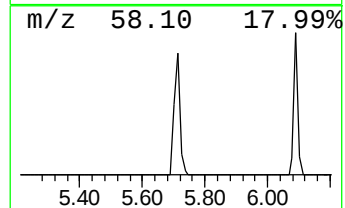
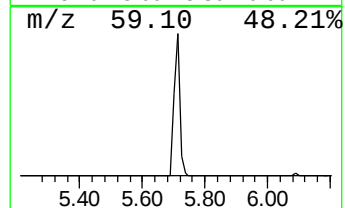
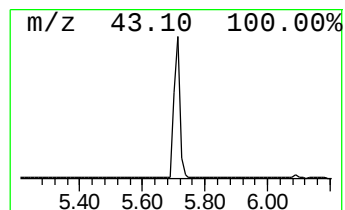
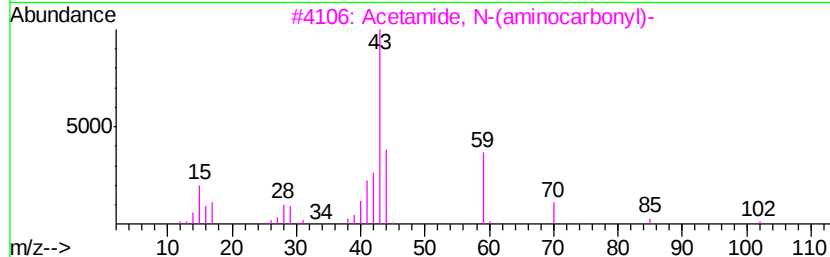
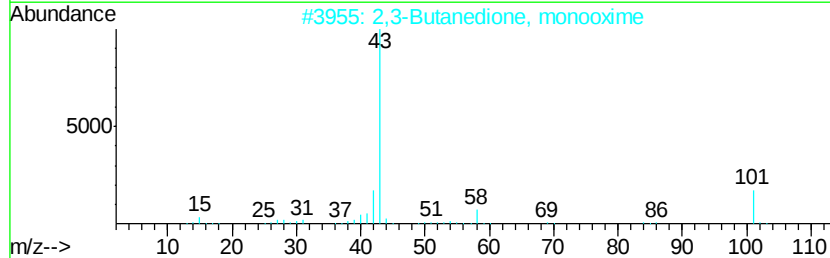
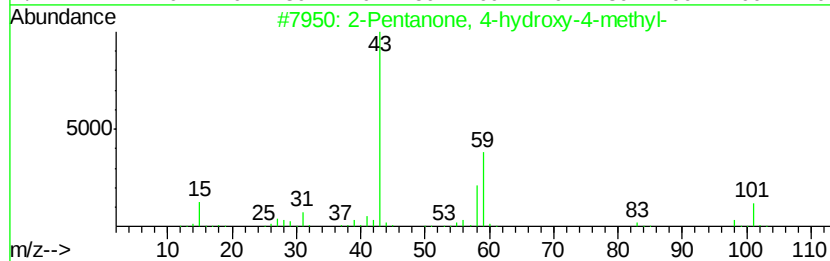
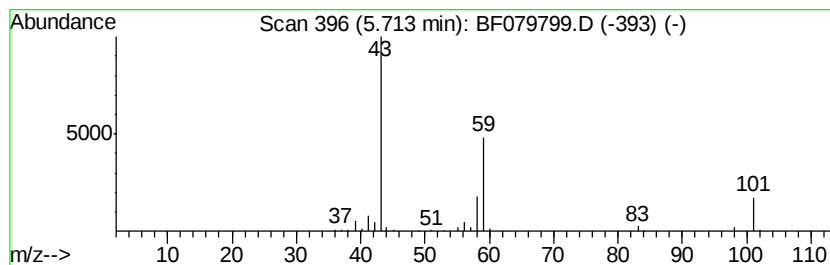
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.71 | 9.91 ng | 175163 | 1,4-Dichlorobenzene-d4 | 7.47 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm  | CAS#        | Qual |
|------|----|---|----------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2  | 000123-42-2 | 59   |
| 2    |    |   | 2,3-Butanedione, monooxime       | 101 | C4H7NO2  | 000057-71-6 | 27   |
| 3    |    |   | Acetamide, N-(aminocarbonyl)-    | 102 | C3H6N2O2 | 000591-07-1 | 9    |
| 4    |    |   | Morpholine, 4-methyl-            | 101 | C5H11NO  | 000109-02-4 | 9    |
| 5    |    |   | 1-Propen-2-ol, acetate           | 100 | C5H8O2   | 000108-22-5 | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060715\  
Data File : BF079799.D  
Acq On : 7 Jun 2015 7:41  
Operator : TP/IZ  
Sample : G2508-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UNDERCUTAB-2(0-2)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060515.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

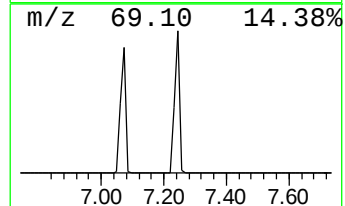
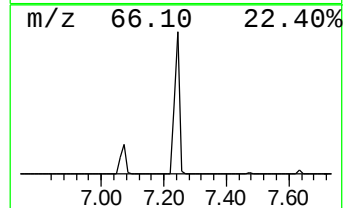
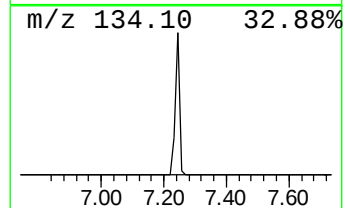
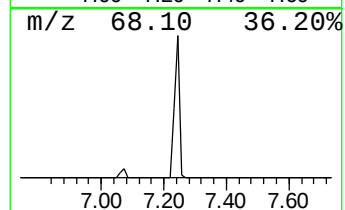
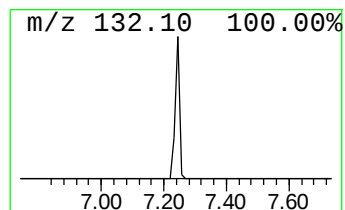
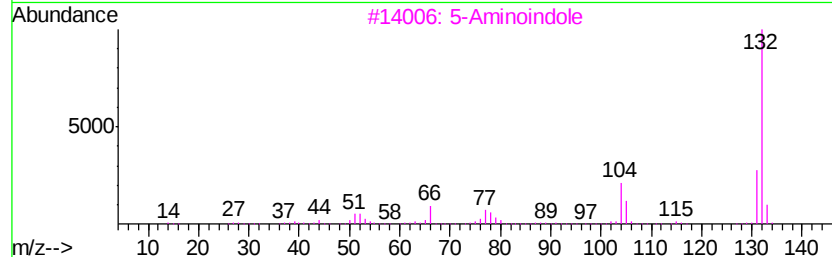
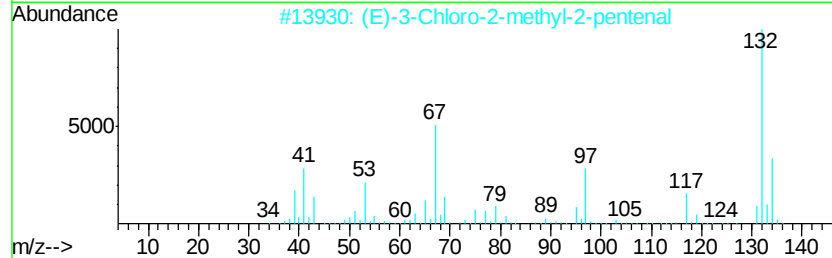
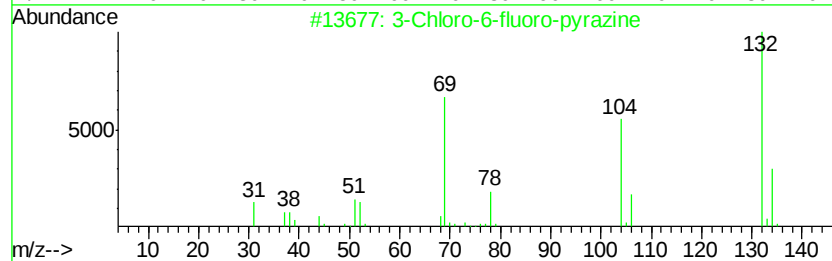
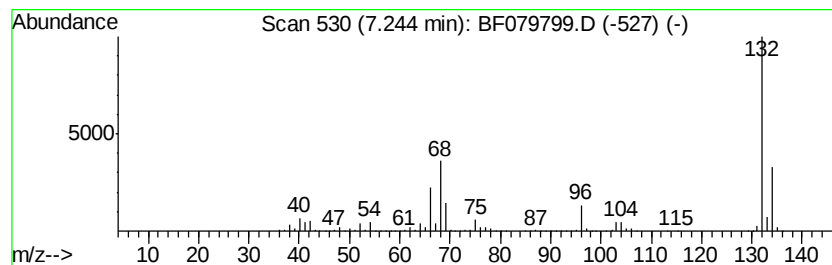
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 unknown7.24 Concentration Rank 2

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 7.24 | 109.87 ng | 1942190 | 1,4-Dichlorobenzene-d4 | 7.47 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 25   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Xenon                            | 132 | Xe        | 007440-63-3  | 9    |
| 5    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060715\  
Data File : BF079799.D  
Acq On : 7 Jun 2015 7:41  
Operator : TP/IZ  
Sample : G2508-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UNDERCUTAB-2(0-2)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060515.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 |
| Ethene, 1,2-dichl... | 1.50 | 19.6    | ng    | 347101   | 1                     | 7.47 | 353558 | 20.0 |
| Ethane, 1,1-dimet... | 1.68 | 77.5    | ng    | 1369780  | 1                     | 7.47 | 353558 | 20.0 |
| Propane, 2,2-dime... | 2.42 | 385.9   | ng    | 6821630  | 1                     | 7.47 | 353558 | 20.0 |
| Butane, 2-methoxy... | 2.88 | 20.1    | ng    | 354451   | 1                     | 7.47 | 353558 | 20.0 |
| 2-Pentanone, 4-hy... | 5.71 | 9.9     | ng    | 175163   | 1                     | 7.47 | 353558 | 20.0 |
| unknown7.24          | 7.24 | 109.9   | ng    | 1942190  | 1                     | 7.47 | 353558 | 20.0 |