

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF101217\  
 Data File : BF099417.D  
 Acq On : 13 Oct 2017 1:38  
 Operator : SJ/JU  
 Sample : I5779-01  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-SF-03-003-A

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-BF092317.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         | 2.146       | 7             | 10          | 17           | rVB      | 49299          | 69485         | 2.77%           | 0.308%        |
| 2         | 3.934       | 309           | 314         | 323          | rBV      | 55916          | 73419         | 2.92%           | 0.325%        |
| 3         | 5.081       | 506           | 509         | 529          | rBV      | 313186         | 433692        | 17.27%          | 1.922%        |
| 4         | 5.481       | 572           | 577         | 580          | rBV      | 2445250        | 2413729       | 96.13%          | 10.695%       |
| 5         | 6.128       | 683           | 687         | 690          | rBV      | 68385          | 55071         | 2.19%           | 0.244%        |
| 6         | 6.493       | 743           | 749         | 757          | rBV      | 2171076        | 2511031       | 100.00%         | 11.127%       |
| 7         | 6.628       | 767           | 772         | 775          | rBV      | 2588063        | 2481345       | 98.82%          | 10.995%       |
| 8         | 6.851       | 807           | 810         | 814          | rBV      | 838648         | 659877        | 26.28%          | 2.924%        |
| 9         | 7.010       | 833           | 837         | 840          | rBV      | 2308803        | 2000437       | 79.67%          | 8.864%        |
| 10        | 7.422       | 902           | 907         | 910          | rBV      | 1437583        | 1503016       | 59.86%          | 6.660%        |
| 11        | 8.134       | 1024          | 1028        | 1031         | rBV      | 1031778        | 827780        | 32.97%          | 3.668%        |
| 12        | 8.687       | 1119          | 1122        | 1125         | rBV      | 101943         | 80682         | 3.21%           | 0.358%        |
| 13        | 9.210       | 1205          | 1211        | 1214         | rBV      | 2761974        | 2501827       | 99.63%          | 11.086%       |
| 14        | 9.598       | 1273          | 1277        | 1284         | rVB      | 414390         | 337411        | 13.44%          | 1.495%        |
| 15        | 9.886       | 1322          | 1326        | 1330         | rBV2     | 880558         | 731987        | 29.15%          | 3.244%        |
| 16        | 10.598      | 1443          | 1447        | 1452         | rBV      | 348546         | 272451        | 10.85%          | 1.207%        |
| 17        | 10.675      | 1456          | 1460        | 1470         | rBV      | 1025603        | 1016652       | 40.49%          | 4.505%        |
| 18        | 10.781      | 1475          | 1478        | 1482         | rBV2     | 21306          | 31308         | 1.25%           | 0.139%        |
| 19        | 11.375      | 1576          | 1579        | 1581         | rBV      | 724179         | 590424        | 23.51%          | 2.616%        |
| 20        | 11.398      | 1581          | 1583        | 1588         | rVV      | 173434         | 135723        | 5.41%           | 0.601%        |
| 21        | 11.451      | 1588          | 1592        | 1595         | rVB      | 36009          | 35453         | 1.41%           | 0.157%        |
| 22        | 11.904      | 1660          | 1669        | 1673         | rBV3     | 33653          | 76215         | 3.04%           | 0.338%        |
| 23        | 11.986      | 1680          | 1683        | 1686         | rBV2     | 28328          | 33648         | 1.34%           | 0.149%        |
| 24        | 12.586      | 1782          | 1785        | 1790         | rBV      | 252575         | 214069        | 8.53%           | 0.949%        |
| 25        | 12.816      | 1818          | 1824        | 1830         | rBV      | 234944         | 242739        | 9.67%           | 1.076%        |
| 26        | 12.957      | 1841          | 1848        | 1851         | rBV      | 2008717        | 1764620       | 70.27%          | 7.819%        |
| 27        | 13.839      | 1995          | 1998        | 2001         | rBV2     | 190358         | 188955        | 7.52%           | 0.837%        |
| 28        | 14.016      | 2023          | 2028        | 2031         | rBV2     | 727148         | 735866        | 29.31%          | 3.261%        |
| 29        | 14.039      | 2031          | 2032        | 2035         | rVB      | 95566          | 59081         | 2.35%           | 0.262%        |
| 30        | 15.486      | 2274          | 2278        | 2283         | rBV      | 383593         | 489813        | 19.51%          | 2.170%        |

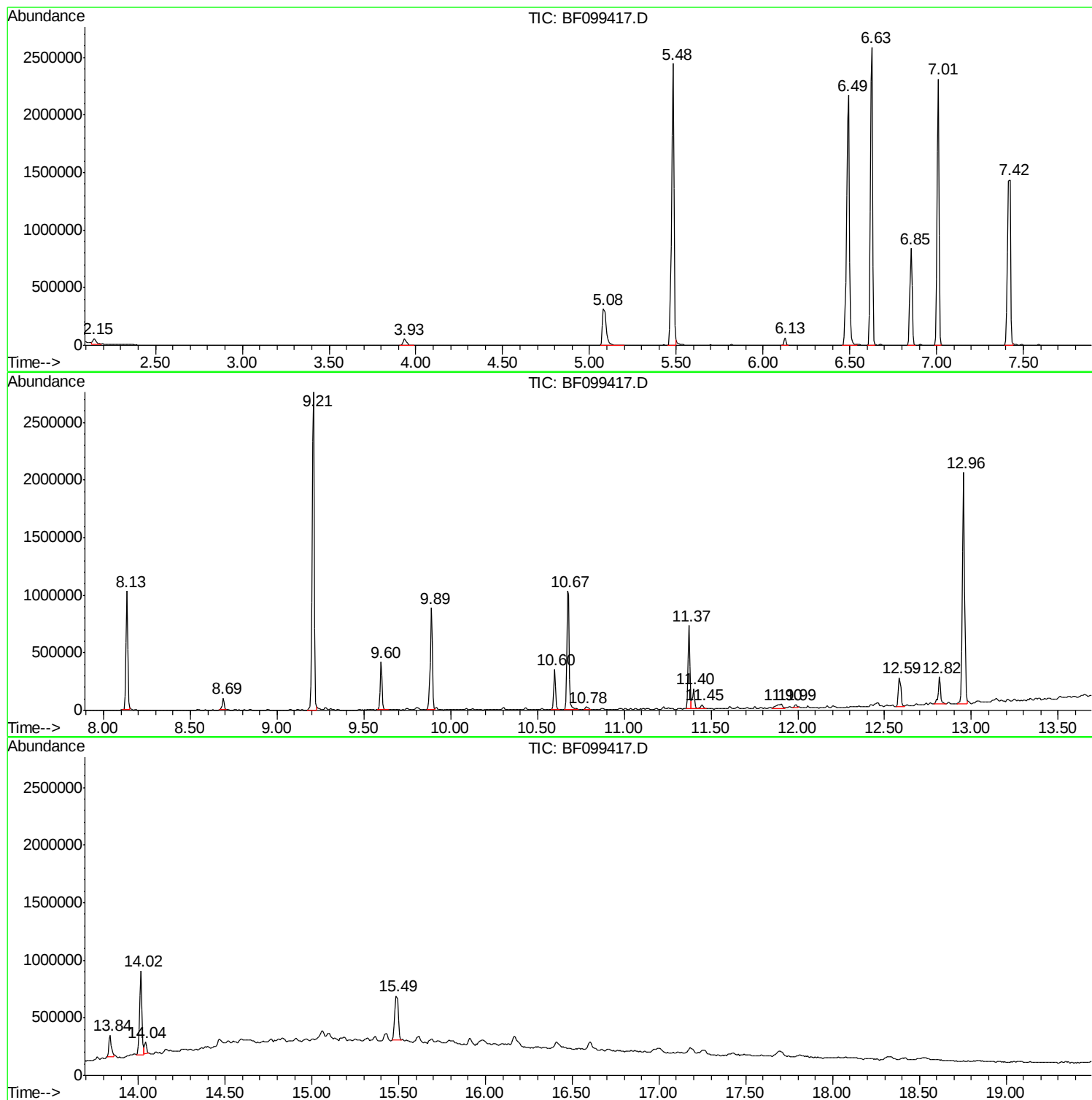
Sum of corrected areas: 22567806

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF101217\  
Data File : BF099417.D  
Acq On : 13 Oct 2017 1:38  
Operator : SJ/JU  
Sample : I5779-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-SF-03-003-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\  
Data File : BF099417.D  
Acq On : 13 Oct 2017 1:38  
Operator : SJ/JU  
Sample : I5779-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-SF-03-003-A

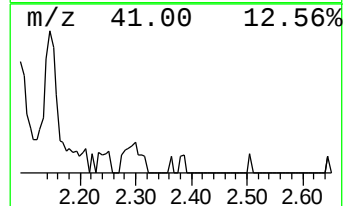
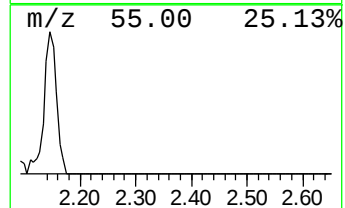
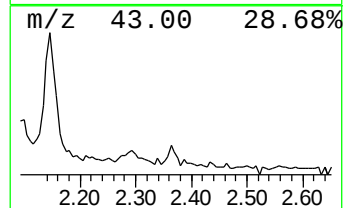
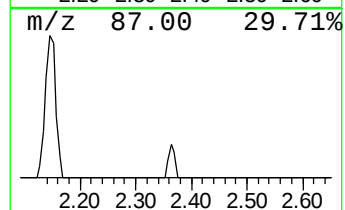
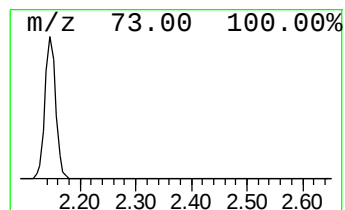
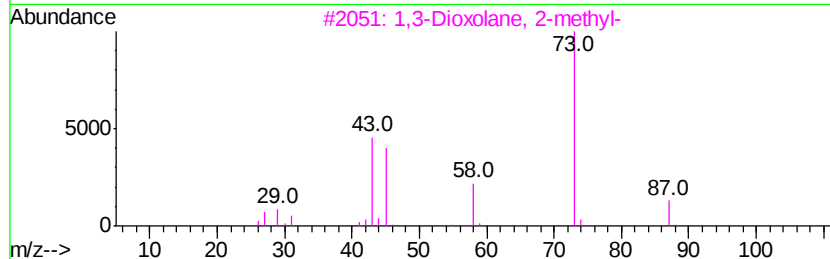
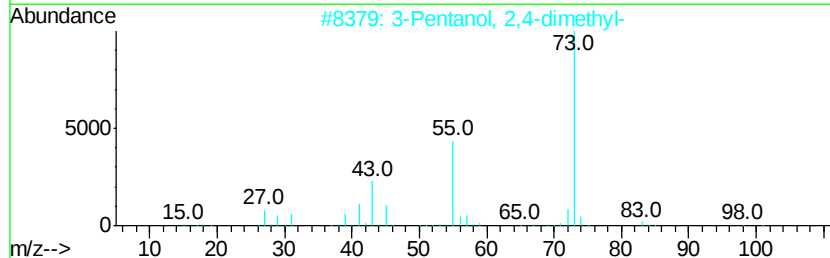
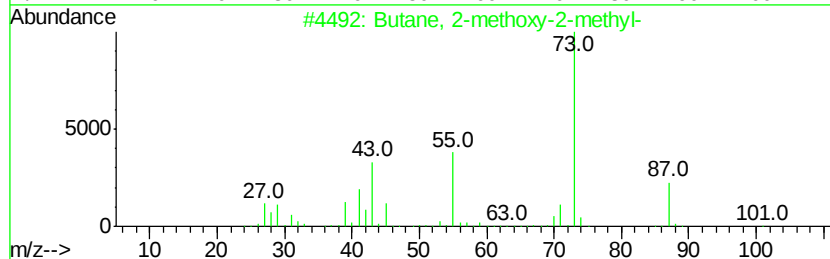
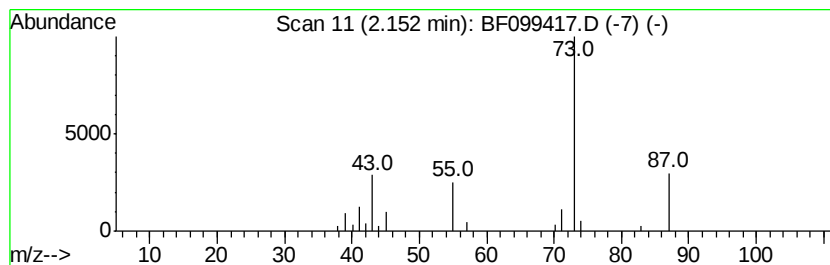
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 8

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 2.15 | 2.11 ng | 69485 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 64   |
| 2    |    |   | 3-Pentanol, 2,4-dimethyl-   | 116 | C7H16O  | 000600-36-2 | 37   |
| 3    |    |   | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 35   |
| 4    |    |   | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 35   |
| 5    |    |   | N-Ethylformamide            | 73  | C3H7NO  | 000627-45-2 | 9    |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\  
Data File : BF099417.D  
Acq On : 13 Oct 2017 1:38  
Operator : SJ/JU  
Sample : I5779-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-SF-03-003-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

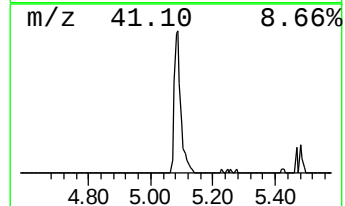
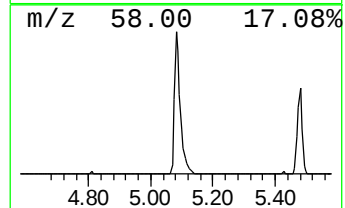
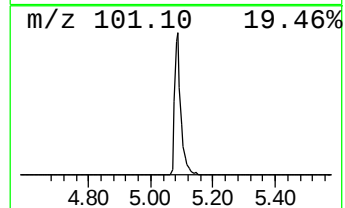
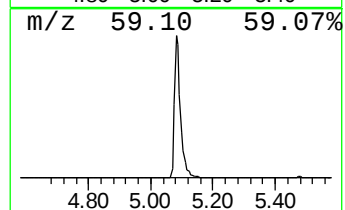
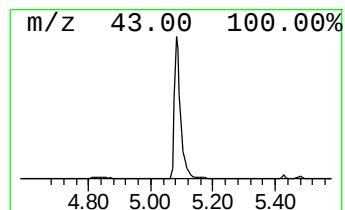
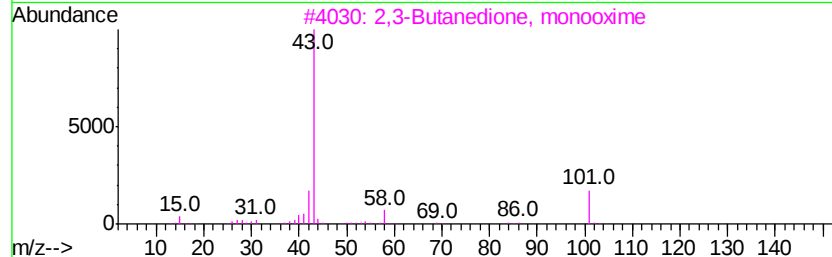
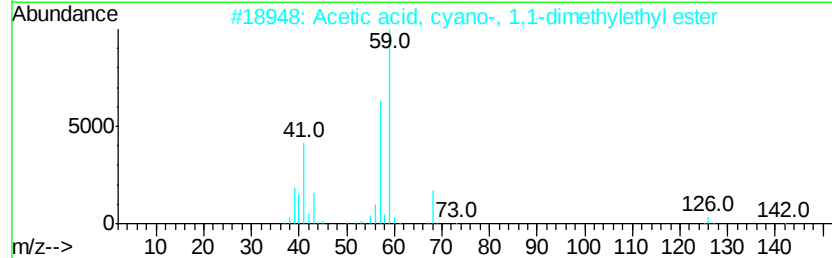
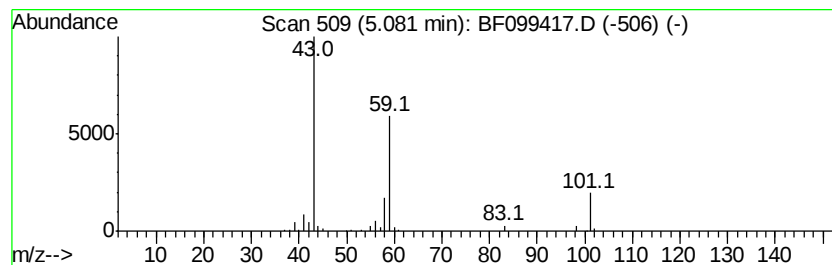
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.08 | 13.14 ng | 433692 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 53   |
| 2    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 3    |    | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 9    |
| 4    |    | Formamide, N,N-diethyl-              | 101 | C5H11NO  | 000617-84-5 | 9    |
| 5    |    | Morpholine, 4-methyl-                | 101 | C5H11NO  | 000109-02-4 | 9    |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\  
Data File : BF099417.D  
Acq On : 13 Oct 2017 1:38  
Operator : SJ/JU  
Sample : I5779-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-SF-03-003-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

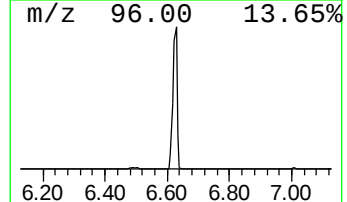
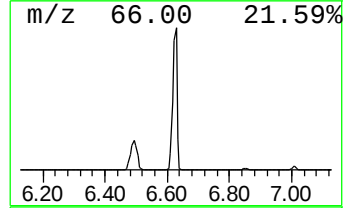
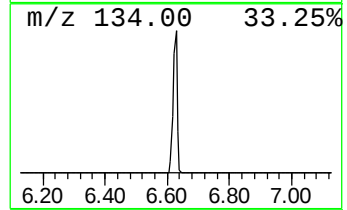
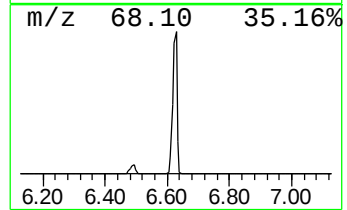
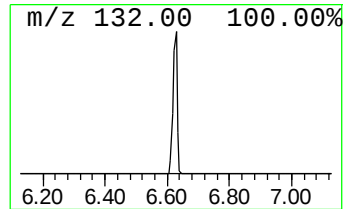
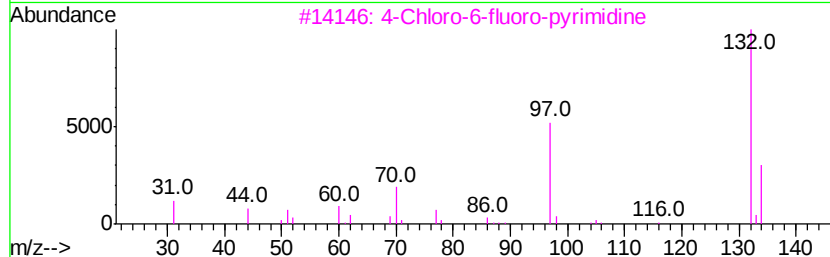
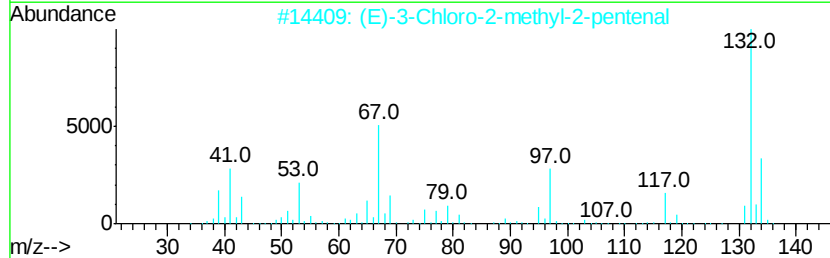
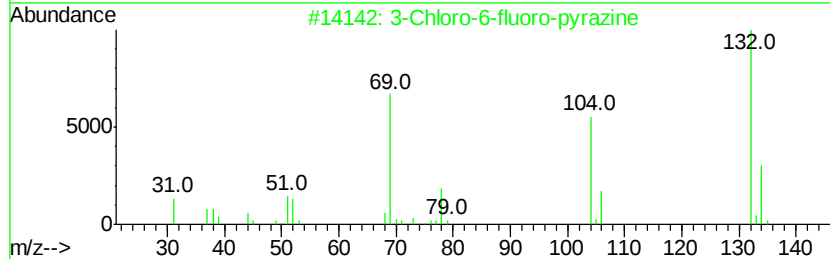
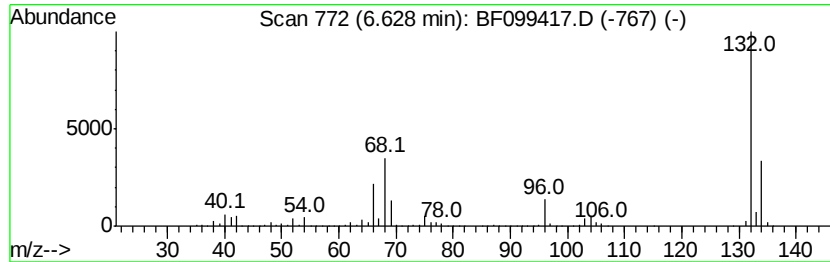
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 unknown6.63 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.63 | 75.21 ng | 2481350 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 38   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 12   |
| 3    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 4    |    | Xenon                            | 132 | Xe        | 007440-63-3  | 9    |
| 5    |    | 4-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-60-2  | 9    |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\  
Data File : BF099417.D  
Acq On : 13 Oct 2017 1:38  
Operator : SJ/JU  
Sample : I5779-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-SF-03-003-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

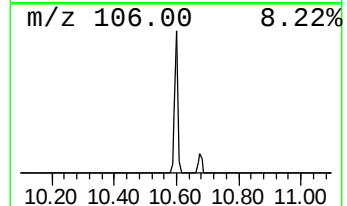
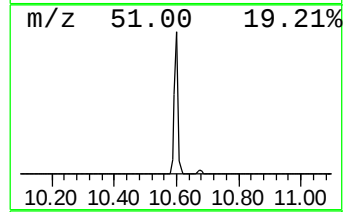
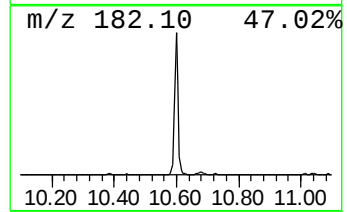
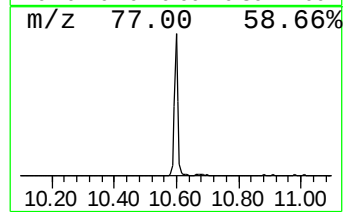
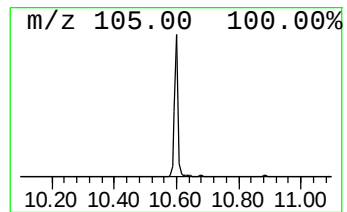
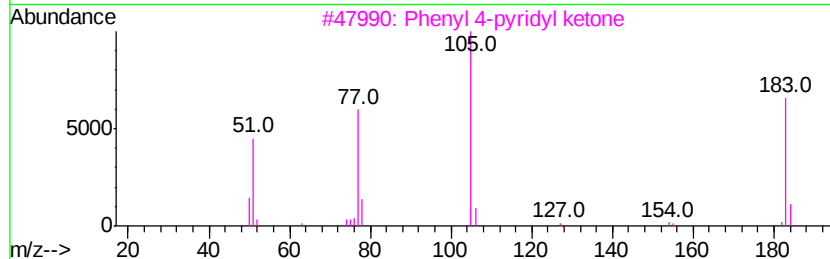
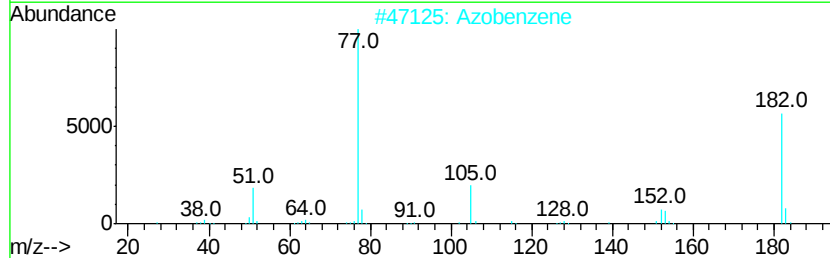
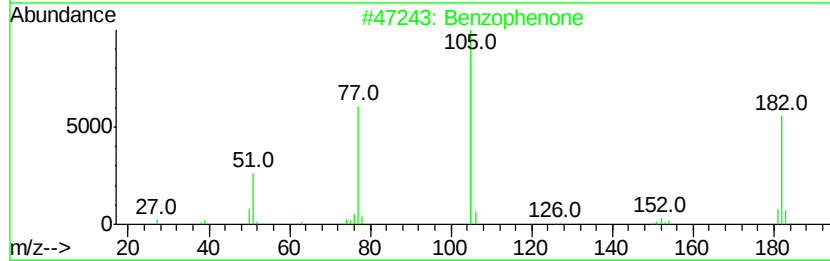
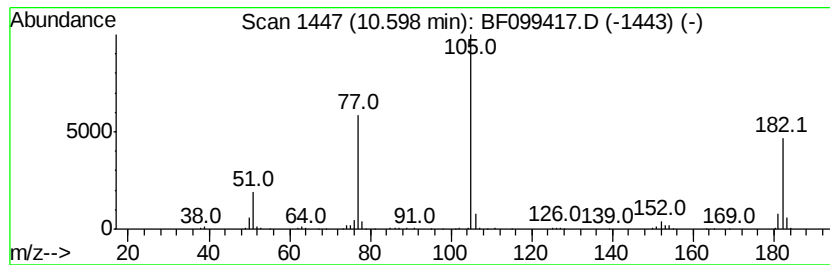
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.60 | 7.44 ng | 272451 | Acenaphthene-d10 | 9.89 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------------------|-----|----------|-------------|------|
| 1       |   | Benzophenone                        | 182 | C13H10O  | 000119-61-9 | 96   |
| 2       |   | Azobenzene                          | 182 | C12H10N2 | 000103-33-3 | 64   |
| 3       |   | Phenvl 4-pyridyl ketone             | 183 | C12H9NO  | 014548-46-0 | 52   |
| 4       |   | Acetophenone, 2-chloro-             | 154 | C8H7ClO  | 000532-27-4 | 49   |
| 5       |   | .alpha.,.alpha.-Dichloroacetophe... | 188 | C8H6Cl2O | 002648-61-5 | 47   |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\  
Data File : BF099417.D  
Acq On : 13 Oct 2017 1:38  
Operator : SJ/JU  
Sample : I5779-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

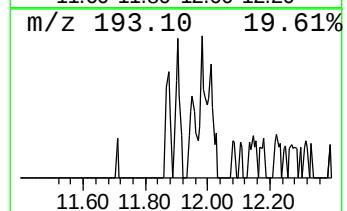
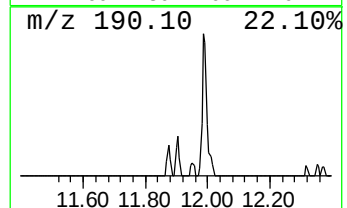
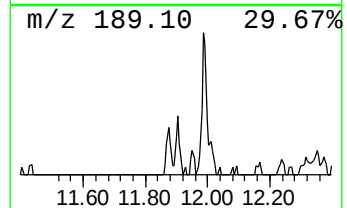
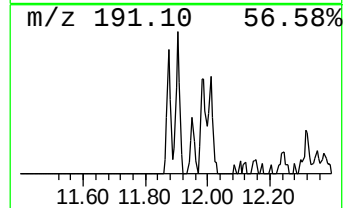
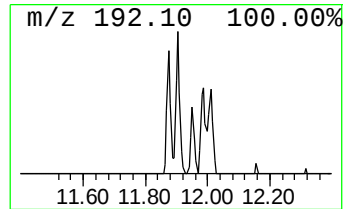
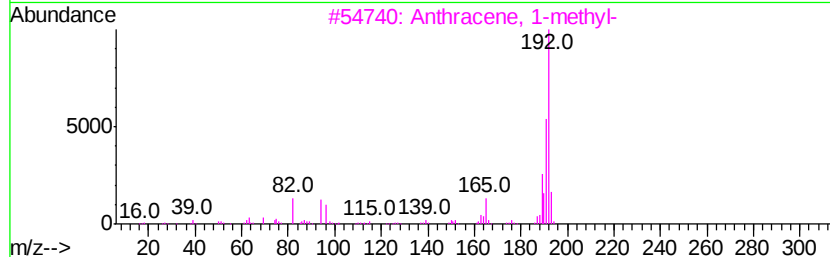
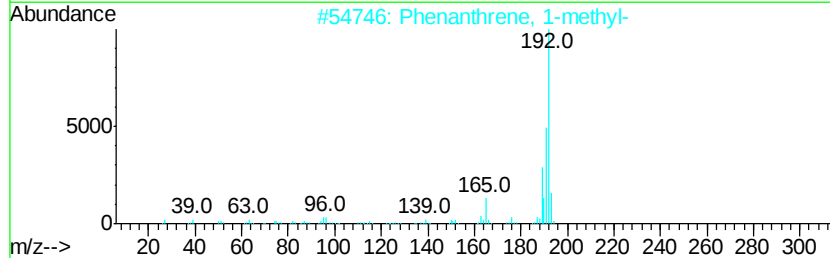
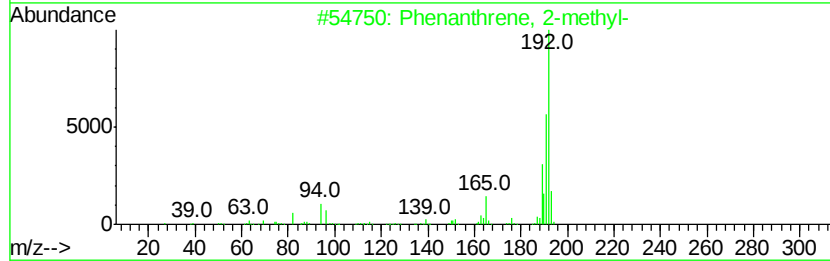
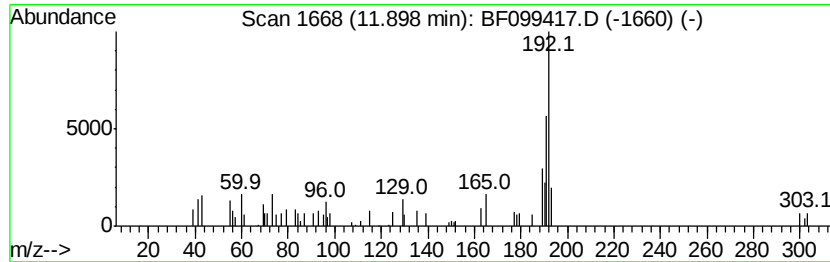
Instrument :  
BNA\_F  
ClientSampleId :  
FK-SF-03-003-A

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T.      | EstConc                     | Area  | Relative to ISTD | R.T.        |      |
|-----------|-----------------------------|-------|------------------|-------------|------|
| 11.90     | 2.58 ng                     | 76215 | Phenanthrene-d10 | 11.37       |      |
| Hit# of 5 | Tentative ID                | MW    | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2-methyl-     | 192   | C15H12           | 002531-84-2 | 93   |
| 2         | Phenanthrene, 1-methyl-     | 192   | C15H12           | 000832-69-9 | 76   |
| 3         | Anthracene, 1-methyl-       | 192   | C15H12           | 000610-48-0 | 76   |
| 4         | Anthracene, 2-methyl-       | 192   | C15H12           | 000613-12-7 | 76   |
| 5         | Naphtho[2,3-b]norbornadiene | 192   | C15H12           | 107426-38-0 | 68   |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\  
Data File : BF099417.D  
Acq On : 13 Oct 2017 1:38  
Operator : SJ/JU  
Sample : I5779-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-SF-03-003-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

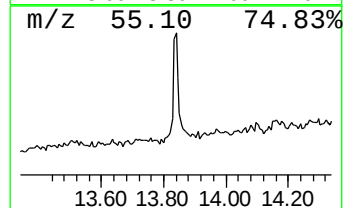
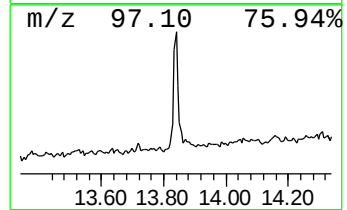
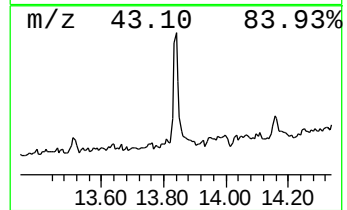
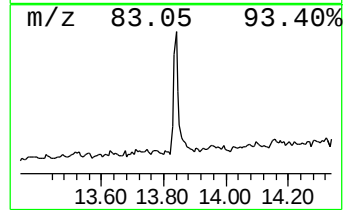
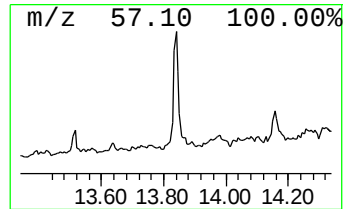
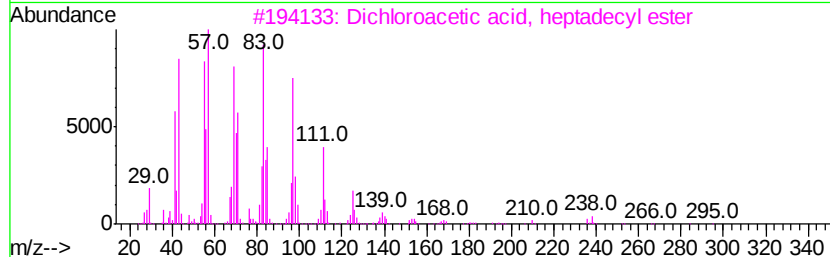
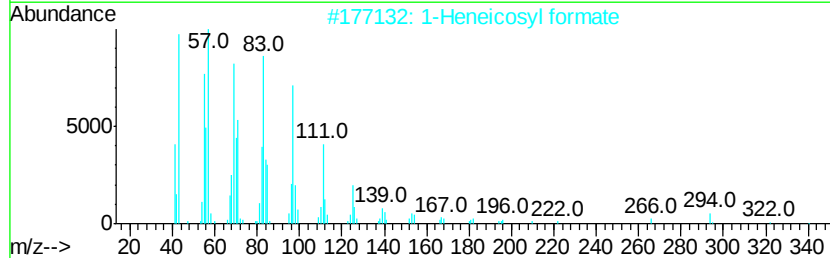
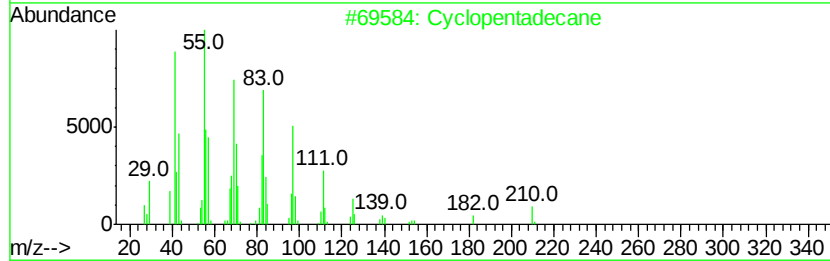
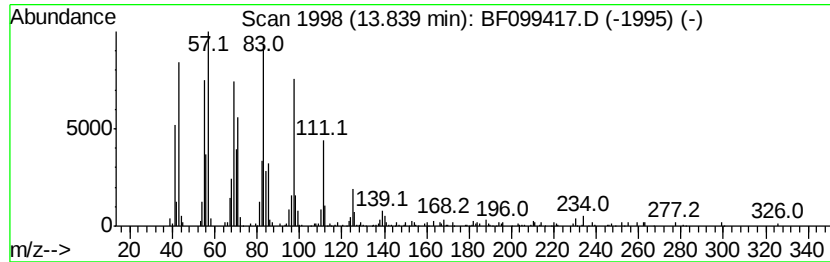
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Cyclopentadecane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.84 | 5.14 ng | 188955 | Chrysene-d12     | 14.02 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Cyclopentadecane                    | 210 | C15H30      | 000295-48-7  | 98   |
| 2    |    | 1-Heneicosyl formate                | 340 | C22H44O2    | 077899-03-7  | 94   |
| 3    |    | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 94   |
| 4    |    | 1-Heptacosanol                      | 396 | C27H56O     | 002004-39-9  | 93   |
| 5    |    | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2  | 959261-23-5  | 91   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF101217\  
Data File : BF099417.D  
Acq On : 13 Oct 2017 1:38  
Operator : SJ/JU  
Sample : I5779-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-SF-03-003-A

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.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 |
| Butane, 2-methoxy... | 2.15  | 2.1     | ng    | 69485    | 1                     | 6.85  | 659877 | 20.0 |
| 2-Pentanone, 4-hy... | 5.08  | 13.1    | ng    | 433692   | 1                     | 6.85  | 659877 | 20.0 |
| unknown6.63          | 6.63  | 75.2    | ng    | 2481350  | 1                     | 6.85  | 659877 | 20.0 |
| Benzophenone         | 10.60 | 7.4     | ng    | 272451   | 3                     | 9.89  | 731987 | 20.0 |
| Phenanthrene, 2-m... | 11.90 | 2.6     | ng    | 76215    | 4                     | 11.37 | 590424 | 20.0 |
| Cyclopentadecane     | 13.84 | 5.1     | ng    | 188955   | 5                     | 14.02 | 735866 | 20.0 |