

Data Path : Z:\HPCHEM1\BNA G\DATA\BG091815\  
 Data File : BG018739.D  
 Acq On : 17 Sep 2015 15:32  
 Operator : TP  
 Sample : G3651-04  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CPS043034

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\_G\METHODS\8270-BG091115.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         | 2.964       | 16            | 21          | 39           | rVB      | 2100396        | 2908818       | 65.83%          | 12.208%       |
| 2         | 3.105       | 39            | 45          | 52           | rVV      | 62292          | 106645        | 2.41%           | 0.448%        |
| 3         | 3.181       | 52            | 58          | 73           | rVB      | 1419184        | 2034902       | 46.05%          | 8.540%        |
| 4         | 5.102       | 379           | 385         | 391          | rBV      | 103436         | 150602        | 3.41%           | 0.632%        |
| 5         | 5.572       | 455           | 465         | 474          | rBV      | 335277         | 518859        | 11.74%          | 2.178%        |
| 6         | 7.164       | 728           | 736         | 744          | rBV      | 200998         | 337559        | 7.64%           | 1.417%        |
| 7         | 7.535       | 791           | 799         | 808          | rBV      | 655238         | 1100670       | 24.91%          | 4.619%        |
| 8         | 7.999       | 871           | 878         | 885          | rBV      | 148243         | 249458        | 5.65%           | 1.047%        |
| 9         | 8.322       | 926           | 933         | 941          | rBV      | 612873         | 1048879       | 23.74%          | 4.402%        |
| 10        | 9.162       | 1069          | 1076        | 1083         | rVB      | 491614         | 872041        | 19.74%          | 3.660%        |
| 11        | 10.566      | 1310          | 1315        | 1325         | rVB3     | 25840          | 47794         | 1.08%           | 0.201%        |
| 12        | 10.801      | 1348          | 1355        | 1362         | rBV      | 209686         | 371914        | 8.42%           | 1.561%        |
| 13        | 11.448      | 1458          | 1465        | 1473         | rBV      | 62147          | 113254        | 2.56%           | 0.475%        |
| 14        | 12.987      | 1721          | 1727        | 1732         | rBV      | 30233          | 51030         | 1.15%           | 0.214%        |
| 15        | 13.251      | 1760          | 1772        | 1780         | rBV      | 1618220        | 2541668       | 57.52%          | 10.667%       |
| 16        | 14.074      | 1907          | 1912        | 1917         | rBV      | 70345          | 103359        | 2.34%           | 0.434%        |
| 17        | 14.626      | 1999          | 2006        | 2014         | rVB2     | 391145         | 613736        | 13.89%          | 2.576%        |
| 18        | 15.437      | 2135          | 2144        | 2155         | rBV      | 258334         | 368186        | 8.33%           | 1.545%        |
| 19        | 16.113      | 2252          | 2259        | 2269         | rBV      | 1385988        | 2066137       | 46.76%          | 8.671%        |
| 20        | 17.370      | 2466          | 2473        | 2479         | rBV      | 584457         | 860423        | 19.47%          | 3.611%        |
| 21        | 17.646      | 2514          | 2520        | 2526         | rVB      | 377454         | 479928        | 10.86%          | 2.014%        |
| 22        | 18.034      | 2580          | 2586        | 2593         | rBV2     | 125705         | 170444        | 3.86%           | 0.715%        |
| 23        | 18.322      | 2631          | 2635        | 2641         | rVB      | 41998          | 52971         | 1.20%           | 0.222%        |
| 24        | 19.979      | 2911          | 2917        | 2923         | rBV      | 3423080        | 4418499       | 100.00%         | 18.544%       |
| 25        | 21.512      | 3173          | 3178        | 3186         | rVB      | 72751          | 96333         | 2.18%           | 0.404%        |
| 26        | 21.624      | 3191          | 3197        | 3206         | rBV      | 644339         | 1049810       | 23.76%          | 4.406%        |
| 27        | 23.081      | 3439          | 3445        | 3456         | rBV10    | 28549          | 74162         | 1.68%           | 0.311%        |
| 28        | 24.814      | 3729          | 3740        | 3751         | rBV      | 360554         | 1018744       | 23.06%          | 4.276%        |

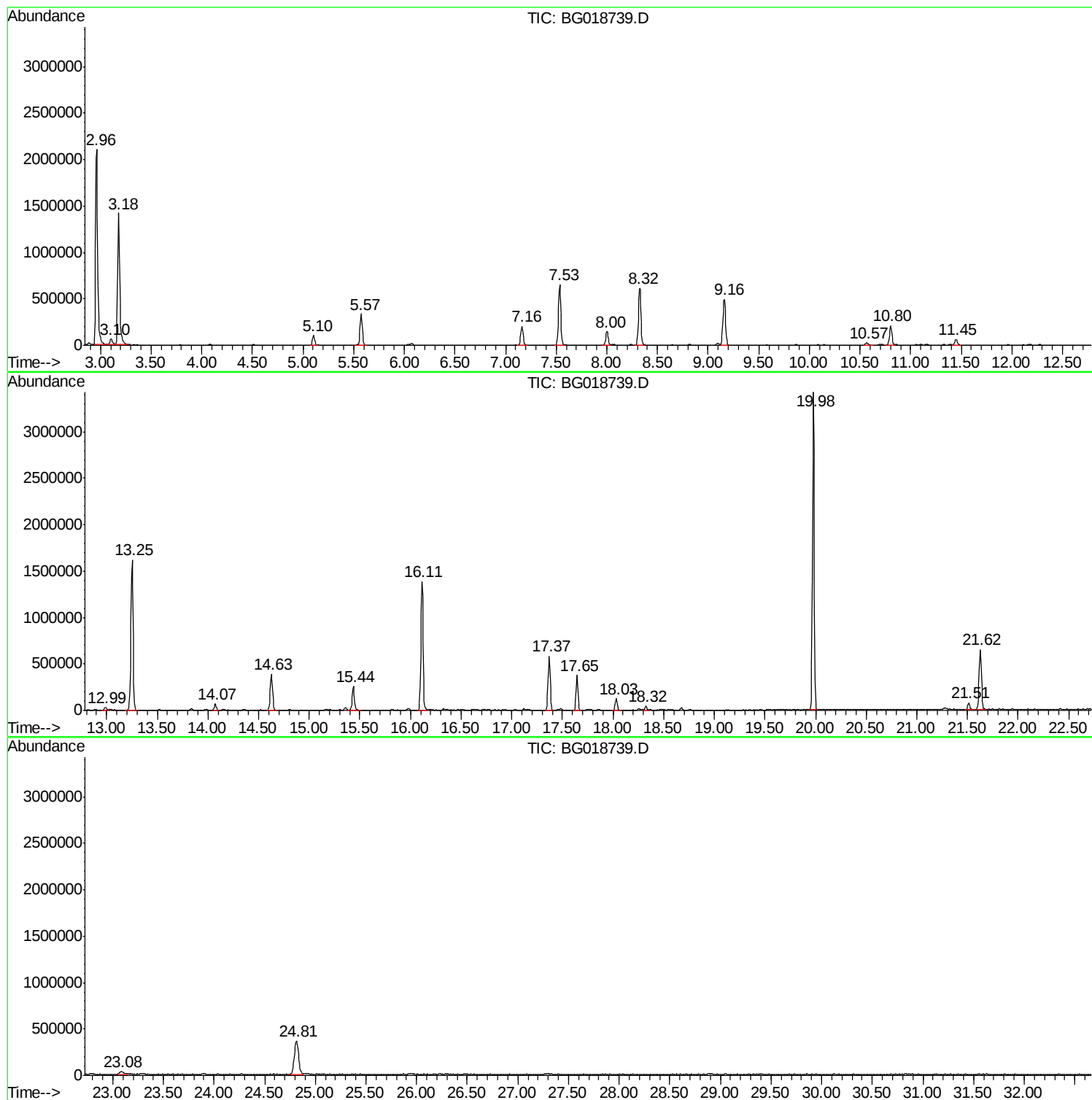
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BNA\_G  
ClientSampleId :  
CPS043034

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG091115.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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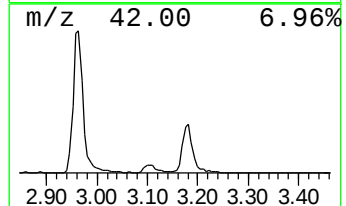
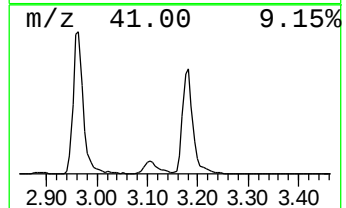
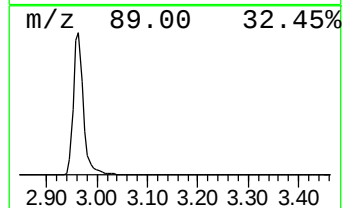
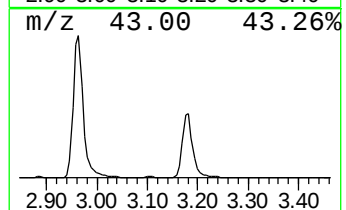
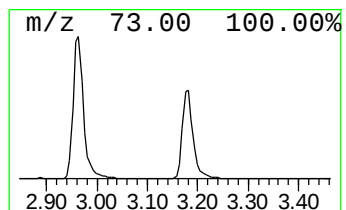
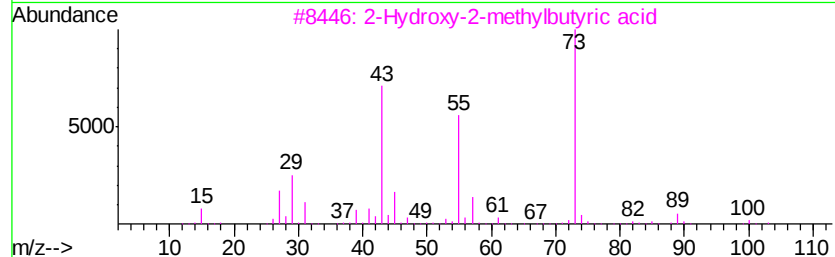
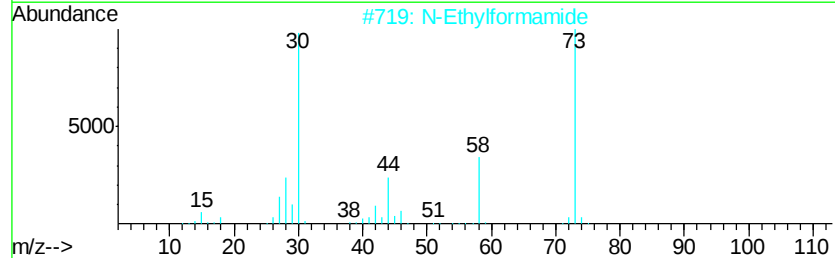
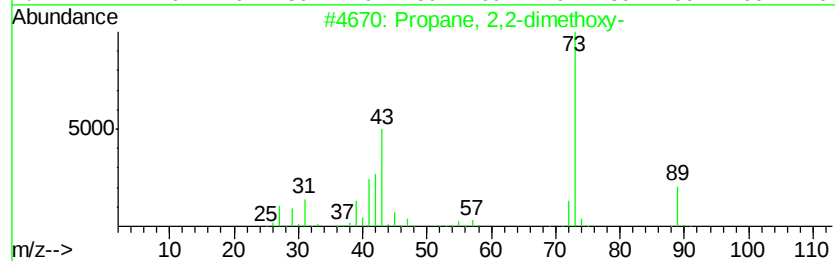
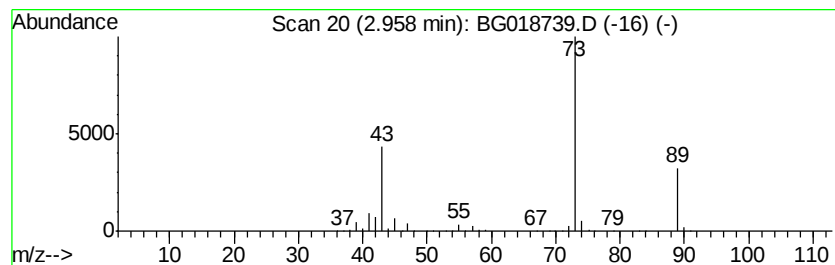
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Propane, 2,2-dimethoxy- Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 2.96 | 233.21 ng | 2908820 | 1,4-Dichlorobenzene-d4 | 8.00 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propane, 2,2-dimethoxy-        | 104 | C5H12O2 | 000077-76-9 | 56   |
| 2    |    | N-Ethylformamide               | 73  | C3H7NO  | 000627-45-2 | 9    |
| 3    |    | 2-Hydroxy-2-methylbutyric acid | 118 | C5H10O3 | 003739-30-8 | 9    |
| 4    |    | Pentane, 3-methoxy-            | 102 | C6H14O  | 036839-67-5 | 9    |
| 5    |    | Propane, 2-methoxy-2-methyl-   | 88  | C5H12O  | 001634-04-4 | 9    |



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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG091115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

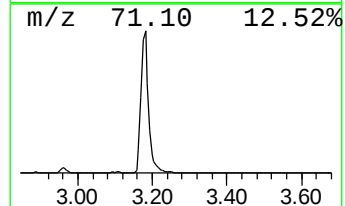
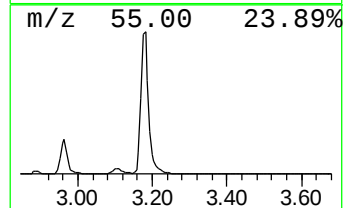
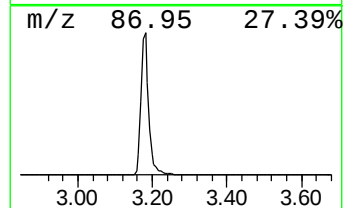
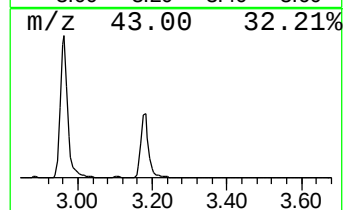
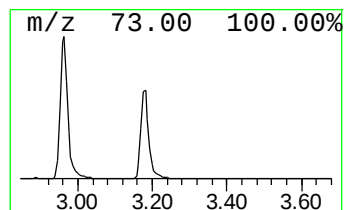
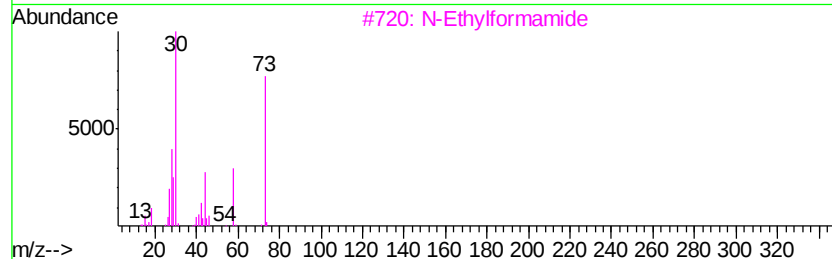
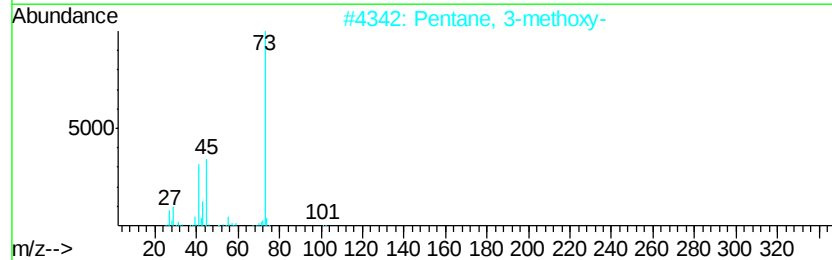
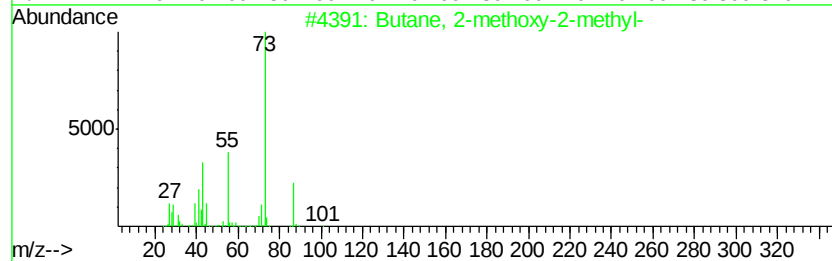
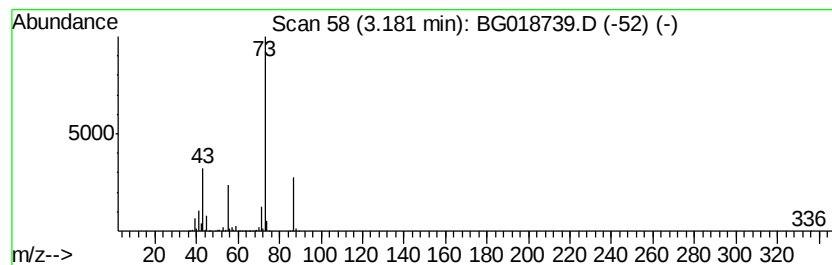
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Butane, 2-methoxy-2-methyl- Concentration Rank 2

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 3.18 | 163.15 ng | 2034900 | 1,4-Dichlorobenzene-d4 | 8.00 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 23   |
| 3    |    | N-Ethylformamide            | 73  | C3H7NO  | 000627-45-2 | 9    |
| 4    |    | Borane, dimethoxy-          | 74  | C2H7BO2 | 004542-61-4 | 9    |
| 5    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 9    |



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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
CPS043034

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG091115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

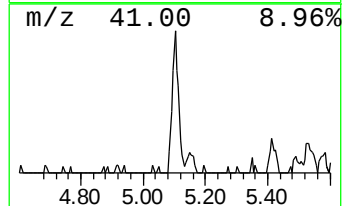
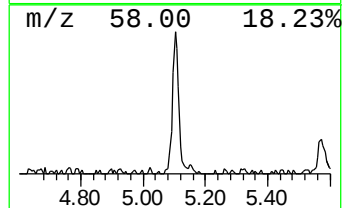
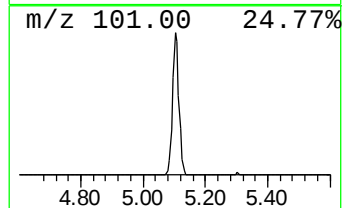
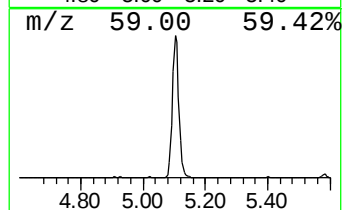
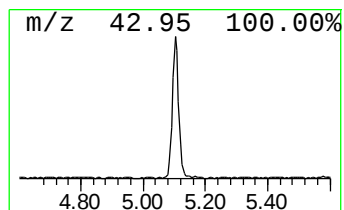
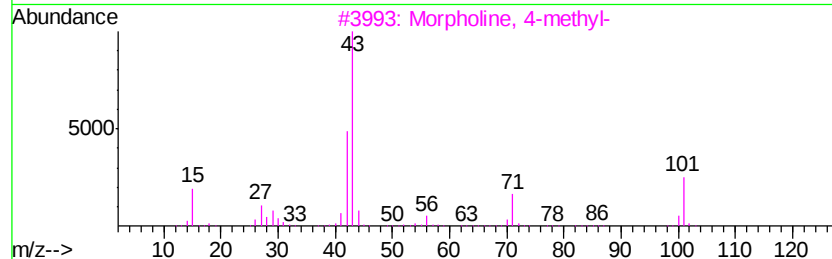
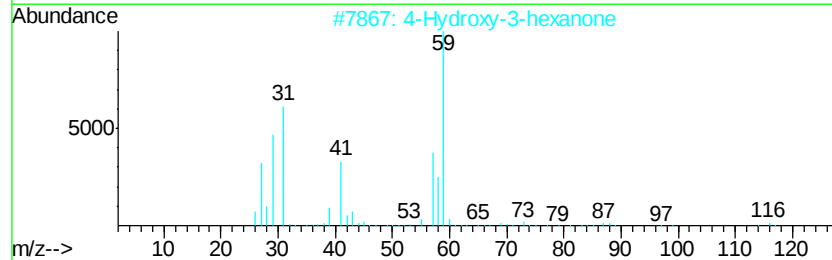
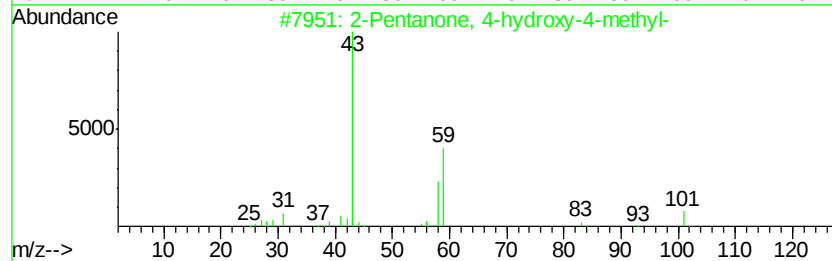
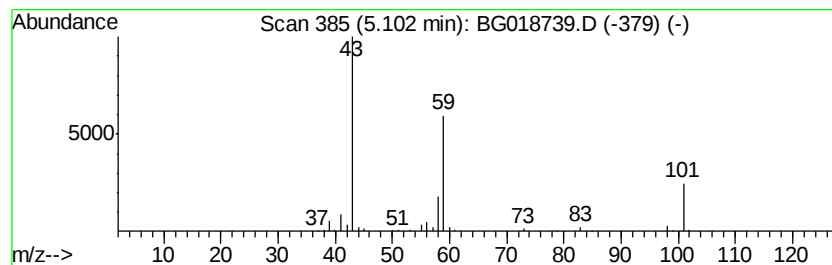
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.10 | 12.07 ng | 150602 | 1,4-Dichlorobenzene-d4 | 8.00 |

| Hit# of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------------|-----|---------|-------------|------|
| 1       |   | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56   |
| 2       |   | 4-Hydroxy-3-hexanone             | 116 | C6H12O2 | 004984-85-4 | 25   |
| 3       |   | Morpholine, 4-methyl-            | 101 | C5H11NO | 000109-02-4 | 9    |
| 4       |   | Acetone                          | 58  | C3H6O   | 000067-64-1 | 9    |
| 5       |   | Butane, 1-ethoxy-                | 102 | C6H14O  | 000628-81-9 | 9    |



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BNA\_G  
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CPS043034

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG091115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

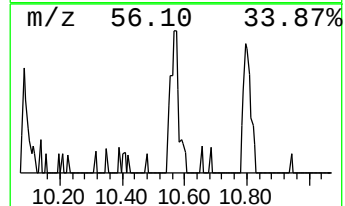
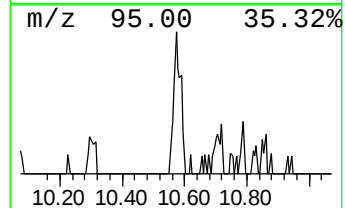
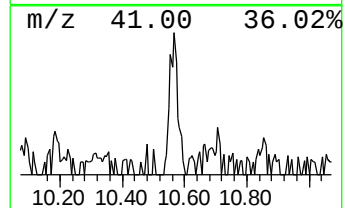
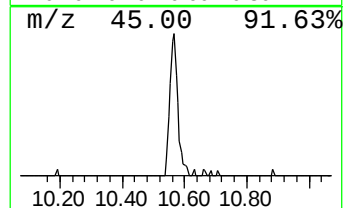
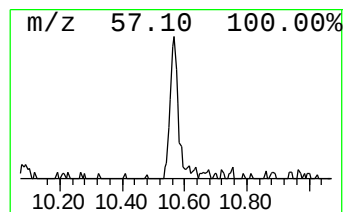
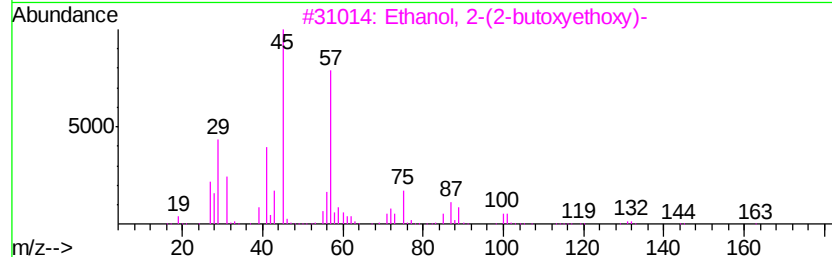
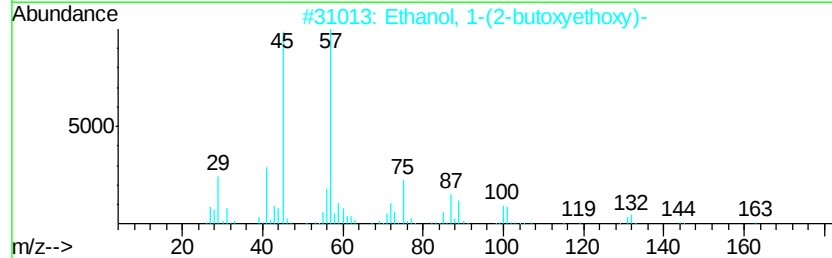
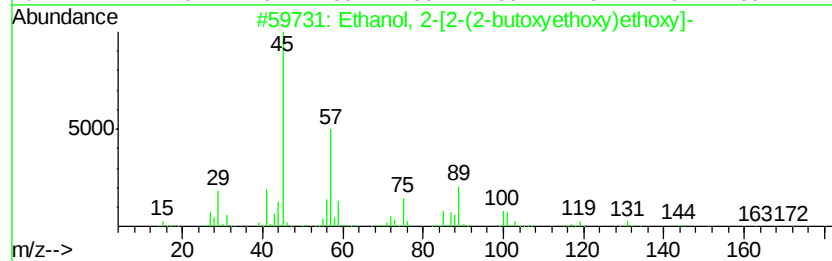
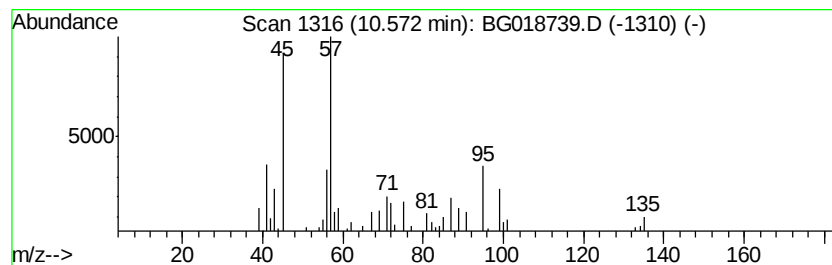
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Ethanol, 2-[2-(2-butoxyetho... Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 10.57 | 2.57 ng | 47794 | Naphthalene-d8   | 10.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Ethanol, 2-[2-(2-butoxyethoxy)et... | 206 | C10H22O4 | 000143-22-6 | 64   |
| 2    |    | Ethanol, 1-(2-butoxyethoxy)-        | 162 | C8H18O3  | 054446-78-5 | 58   |
| 3    |    | Ethanol, 2-(2-butoxyethoxy)-        | 162 | C8H18O3  | 000112-34-5 | 53   |
| 4    |    | Ethanol, 2-butoxy-                  | 118 | C6H14O2  | 000111-76-2 | 53   |
| 5    |    | Methoxyacetic acid, heptyl ester    | 188 | C10H20O3 | 168920-36-3 | 38   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

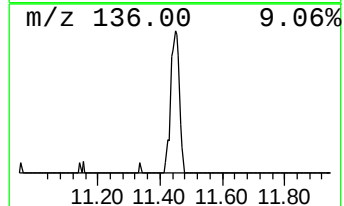
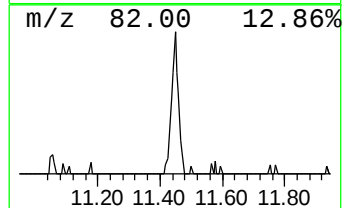
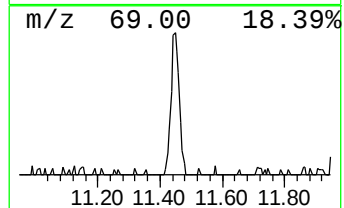
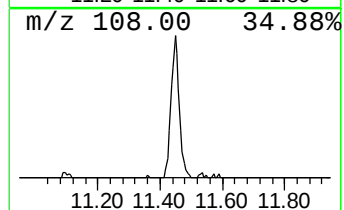
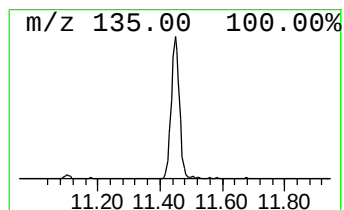
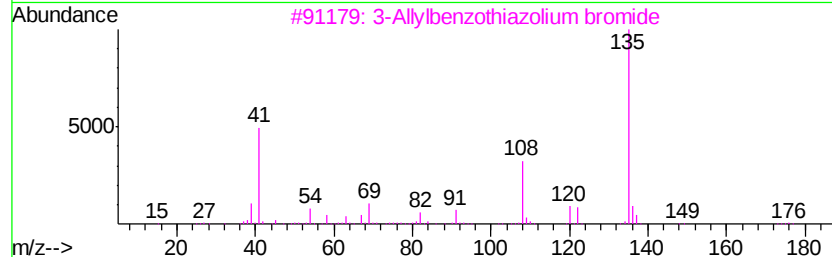
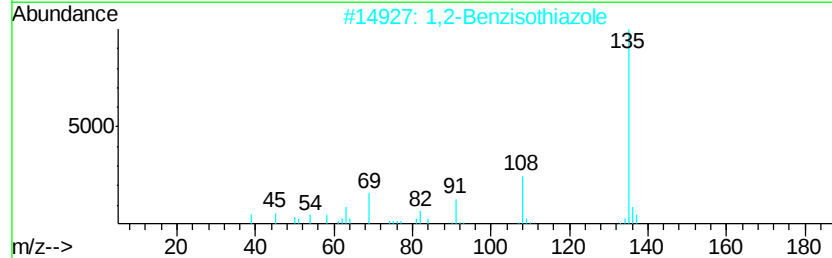
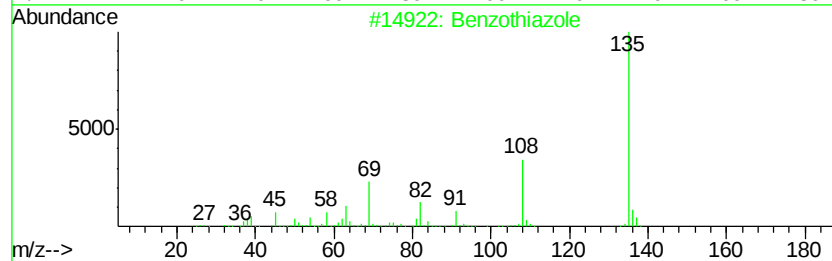
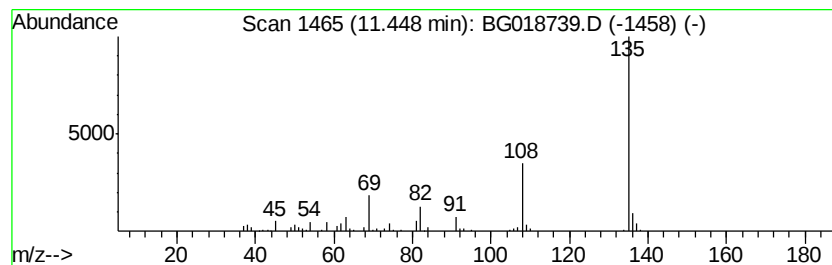
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Benzothiazole Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.45 | 6.09 ng | 113254 | Napthalene-d8    | 10.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Benzothiazole                       | 135 | C7H5NS     | 000095-16-9 | 95   |
| 2    |    | 1,2-Benzisothiazole                 | 135 | C7H5NS     | 000272-16-2 | 78   |
| 3    |    | 3-Allylbenzothiazolium bromide      | 255 | C10H10BrNS | 016407-55-9 | 72   |
| 4    |    | Adenine                             | 135 | C5H5N5     | 000073-24-5 | 64   |
| 5    |    | 1H-Pyrazolo[3,4-d]pyrimidin-4-amine | 135 | C5H5N5     | 002380-63-4 | 59   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG091815\  
Data File : BG018739.D  
Acq On : 17 Sep 2015 15:32  
Operator : TP  
Sample : G3651-04  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
CPS043034

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG091115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

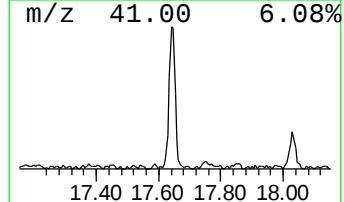
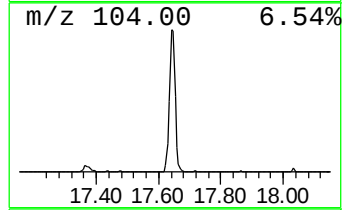
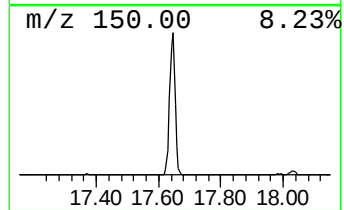
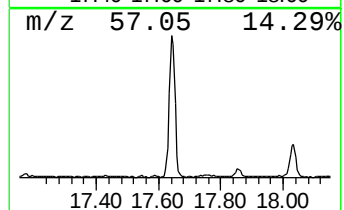
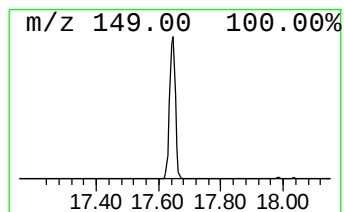
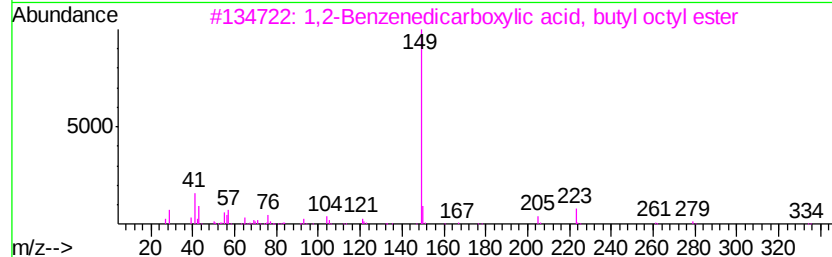
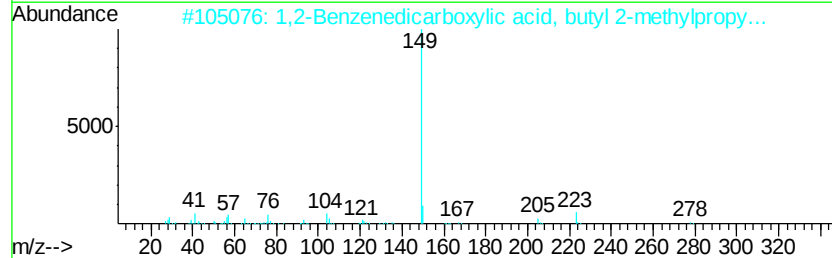
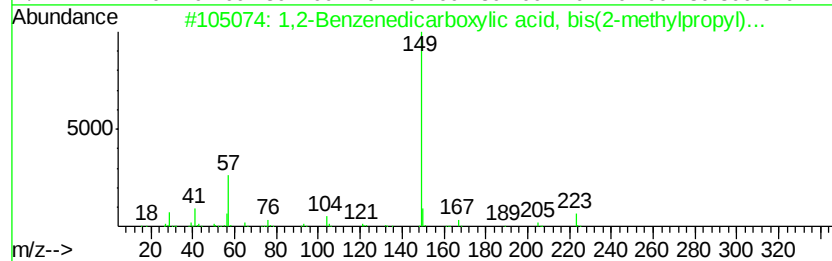
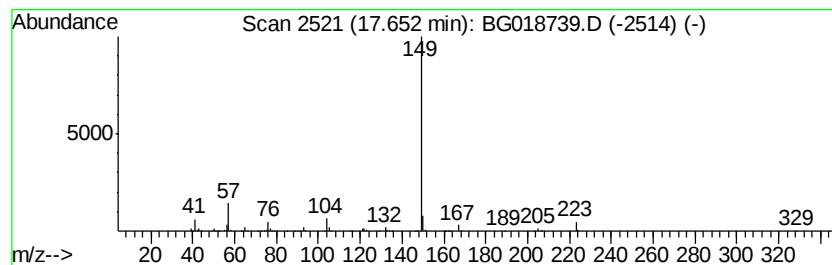
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 1,2-Benzenedicarboxylic aci... Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 17.65 | 11.16 ng | 479928 | Phenanthrene-d10 | 17.37 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,2-Benzenedicarboxylic acid, bi... | 278 | C16H22O4 | 000084-69-5 | 83   |
| 2    |    | 1,2-Benzenedicarboxylic acid, bu... | 278 | C16H22O4 | 017851-53-5 | 80   |
| 3    |    | 1,2-Benzenedicarboxylic acid, bu... | 334 | C20H30O4 | 000084-78-6 | 78   |
| 4    |    | 1,2-Benzenedicarboxylic acid, bu... | 362 | C22H34O4 | 000089-18-9 | 64   |
| 5    |    | Dibutyl phthalate                   | 278 | C16H22O4 | 000084-74-2 | 50   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG091815\  
Data File : BG018739.D  
Acq On : 17 Sep 2015 15:32  
Operator : TP  
Sample : G3651-04  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
CPS043034

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG091115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

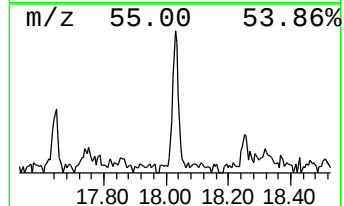
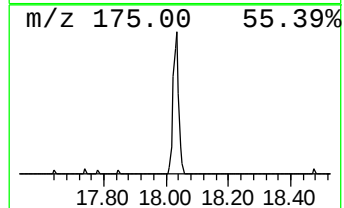
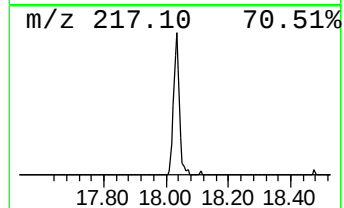
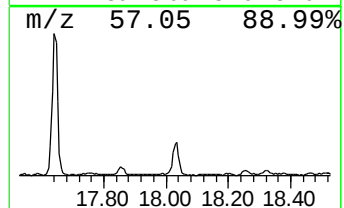
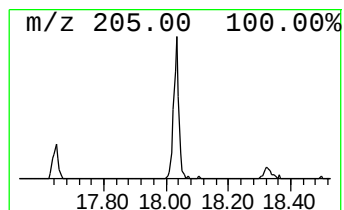
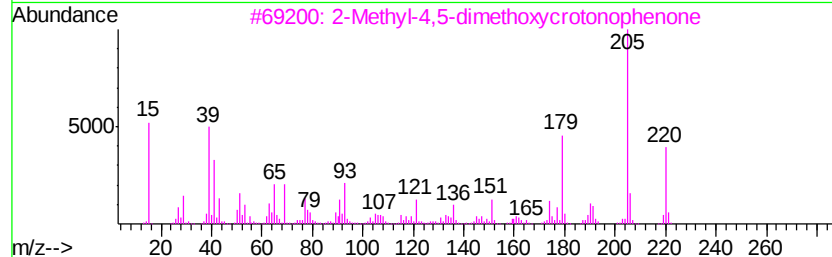
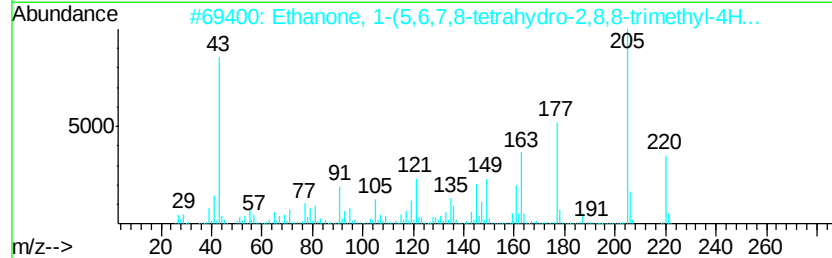
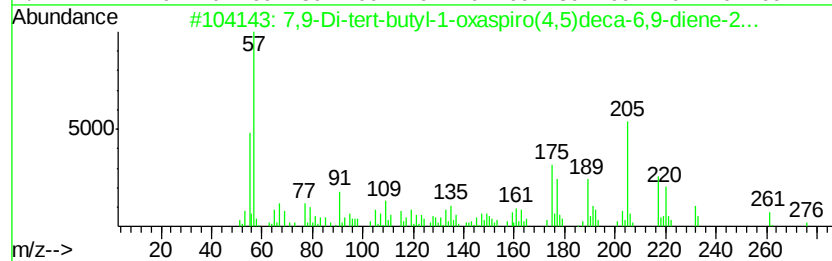
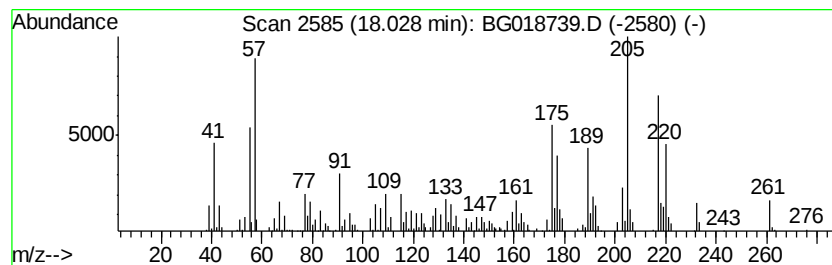
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 7,9-Di-tert-butyl-1-oxaspiro... Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.03 | 3.96 ng | 170444 | Phenanthrene-d10 | 17.37 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 7,9-Di-tert-butyl-1-oxaspiro(4,5... | 276 | C17H24O3 | 082304-66-3 | 80   |
| 2    |    |   | Ethanone, 1-(5,6,7,8-tetrahydro-... | 220 | C14H20O2 | 071596-88-8 | 45   |
| 3    |    |   | 2-Methyl-4,5-dimethoxycrotonophe... | 220 | C13H16O3 | 207233-94-1 | 38   |
| 4    |    |   | 2H-1-Benzopyran, 6,7-dimethoxy-2... | 220 | C13H16O3 | 000644-06-4 | 30   |
| 5    |    |   | 2,6-Bis(1,1-dimethylethyl)-4-met... | 262 | C18H30O  | 004278-82-4 | 30   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG091815\  
Data File : BG018739.D  
Acq On : 17 Sep 2015 15:32  
Operator : TP  
Sample : G3651-04  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
CPS043034

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG091115.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 |
| Propane, 2,2-dime... | 2.96  | 233.2   | ng    | 2908820  | 1                     | 8.00  | 249458 | 20.0 |
| Butane, 2-methoxy... | 3.18  | 163.2   | ng    | 2034900  | 1                     | 8.00  | 249458 | 20.0 |
| 2-Pentanone, 4-hy... | 5.10  | 12.1    | ng    | 150602   | 1                     | 8.00  | 249458 | 20.0 |
| Ethanol, 2-[2-(2-... | 10.57 | 2.6     | ng    | 47794    | 2                     | 10.80 | 371914 | 20.0 |
| Benzothiazole        | 11.45 | 6.1     | ng    | 113254   | 2                     | 10.80 | 371914 | 20.0 |
| 1,2-Benzenedicarb... | 17.65 | 11.2    | ng    | 479928   | 4                     | 17.37 | 860423 | 20.0 |
| 7,9-Di-tert-butyl... | 18.03 | 4.0     | ng    | 170444   | 4                     | 17.37 | 860423 | 20.0 |