

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060415\  
 Data File : BG017448.D  
 Acq On : 4 Jun 2015 18:58  
 Operator : TP/IZ  
 Sample : G2491-03  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SS043MW010-150601

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-BG060315.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         | 2.777       | 11            | 15          | 21           | rBV      | 189319         | 247188        | 14.55%          | 3.037%        |
| 2         | 4.240       | 259           | 264         | 273          | rVB      | 64495          | 94522         | 5.57%           | 1.161%        |
| 3         | 4.728       | 342           | 347         | 356          | rVB2     | 11840          | 18085         | 1.06%           | 0.222%        |
| 4         | 4.934       | 376           | 382         | 387          | rBV      | 47668          | 69741         | 4.11%           | 0.857%        |
| 5         | 5.216       | 424           | 430         | 439          | rBV      | 148809         | 208815        | 12.29%          | 2.566%        |
| 6         | 6.826       | 698           | 704         | 715          | rVB      | 94930          | 143285        | 8.44%           | 1.760%        |
| 7         | 7.166       | 755           | 762         | 771          | rBV      | 299538         | 458512        | 27.00%          | 5.634%        |
| 8         | 7.625       | 833           | 840         | 845          | rBV      | 79245          | 123057        | 7.25%           | 1.512%        |
| 9         | 7.942       | 887           | 894         | 900          | rBV      | 279904         | 447892        | 26.37%          | 5.503%        |
| 10        | 8.788       | 1031          | 1038        | 1047         | rBV      | 249263         | 397117        | 23.38%          | 4.879%        |
| 11        | 10.421      | 1309          | 1316        | 1323         | rBV      | 93720          | 159355        | 9.38%           | 1.958%        |
| 12        | 12.313      | 1632          | 1638        | 1643         | rBV      | 24310          | 36238         | 2.13%           | 0.445%        |
| 13        | 12.907      | 1732          | 1739        | 1747         | rVB      | 623894         | 911269        | 53.65%          | 11.196%       |
| 14        | 13.612      | 1851          | 1859        | 1860         | rBV4     | 26351          | 40612         | 2.39%           | 0.499%        |
| 15        | 14.287      | 1964          | 1974        | 1980         | rBV2     | 154669         | 233568        | 13.75%          | 2.870%        |
| 16        | 14.352      | 1980          | 1985        | 1992         | rVB      | 82296          | 121167        | 7.13%           | 1.489%        |
| 17        | 14.423      | 1992          | 1997        | 2000         | rBV2     | 13293          | 19955         | 1.17%           | 0.245%        |
| 18        | 15.040      | 2098          | 2102        | 2107         | rBV      | 18066          | 23580         | 1.39%           | 0.290%        |
| 19        | 15.192      | 2125          | 2128        | 2136         | rVB5     | 12147          | 21380         | 1.26%           | 0.263%        |
| 20        | 15.339      | 2149          | 2153        | 2159         | rVB      | 79034          | 110040        | 6.48%           | 1.352%        |
| 21        | 15.786      | 2223          | 2229        | 2237         | rBV      | 637236         | 879352        | 51.77%          | 10.804%       |
| 22        | 16.015      | 2263          | 2268        | 2273         | rBV6     | 11267          | 21600         | 1.27%           | 0.265%        |
| 23        | 17.037      | 2435          | 2442        | 2446         | rBV      | 218179         | 306147        | 18.03%          | 3.761%        |
| 24        | 17.078      | 2446          | 2449        | 2454         | rVB      | 51548          | 70285         | 4.14%           | 0.864%        |
| 25        | 17.172      | 2461          | 2465        | 2469         | rVB      | 16007          | 21097         | 1.24%           | 0.259%        |
| 26        | 17.948      | 2592          | 2597        | 2603         | rBV3     | 25794          | 44960         | 2.65%           | 0.552%        |
| 27        | 18.012      | 2603          | 2608        | 2611         | rVV4     | 15462          | 24079         | 1.42%           | 0.296%        |
| 28        | 19.099      | 2790          | 2793        | 2799         | rBV      | 17640          | 26090         | 1.54%           | 0.321%        |
| 29        | 19.164      | 2800          | 2804        | 2808         | rVB      | 66204          | 73037         | 4.30%           | 0.897%        |
| 30        | 19.229      | 2812          | 2815        | 2822         | rVB8     | 13045          | 19686         | 1.16%           | 0.242%        |
| 31        | 19.499      | 2858          | 2861        | 2868         | rVB      | 46080          | 60858         | 3.58%           | 0.748%        |
| 32        | 19.681      | 2886          | 2892        | 2897         | rBV      | 1451931        | 1698450       | 100.00%         | 20.868%       |
| 33        | 19.857      | 2917          | 2922        | 2925         | rBV5     | 14140          | 21816         | 1.28%           | 0.268%        |
| 34        | 19.922      | 2929          | 2933        | 2937         | rVB      | 47325          | 58527         | 3.45%           | 0.719%        |

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Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SS043MW010-150601

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\_G\METHODS\8270-BG060315.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 20.292 | 2992 | 2996 | 3002 | rVB5 | 13488  | 19509  | 1.15%  | 0.240% |
| 36 | 20.474 | 3023 | 3027 | 3031 | rVB3 | 34984  | 38485  | 2.27%  | 0.473% |
| 37 | 20.956 | 3105 | 3109 | 3117 | rVB4 | 24859  | 43519  | 2.56%  | 0.535% |
| 38 | 21.150 | 3138 | 3142 | 3148 | rBV2 | 25450  | 38021  | 2.24%  | 0.467% |
| 39 | 21.232 | 3150 | 3156 | 3165 | rBV  | 325949 | 419687 | 24.71% | 5.156% |
| 40 | 23.465 | 3529 | 3536 | 3546 | rBV  | 202081 | 368441 | 21.69% | 4.527% |

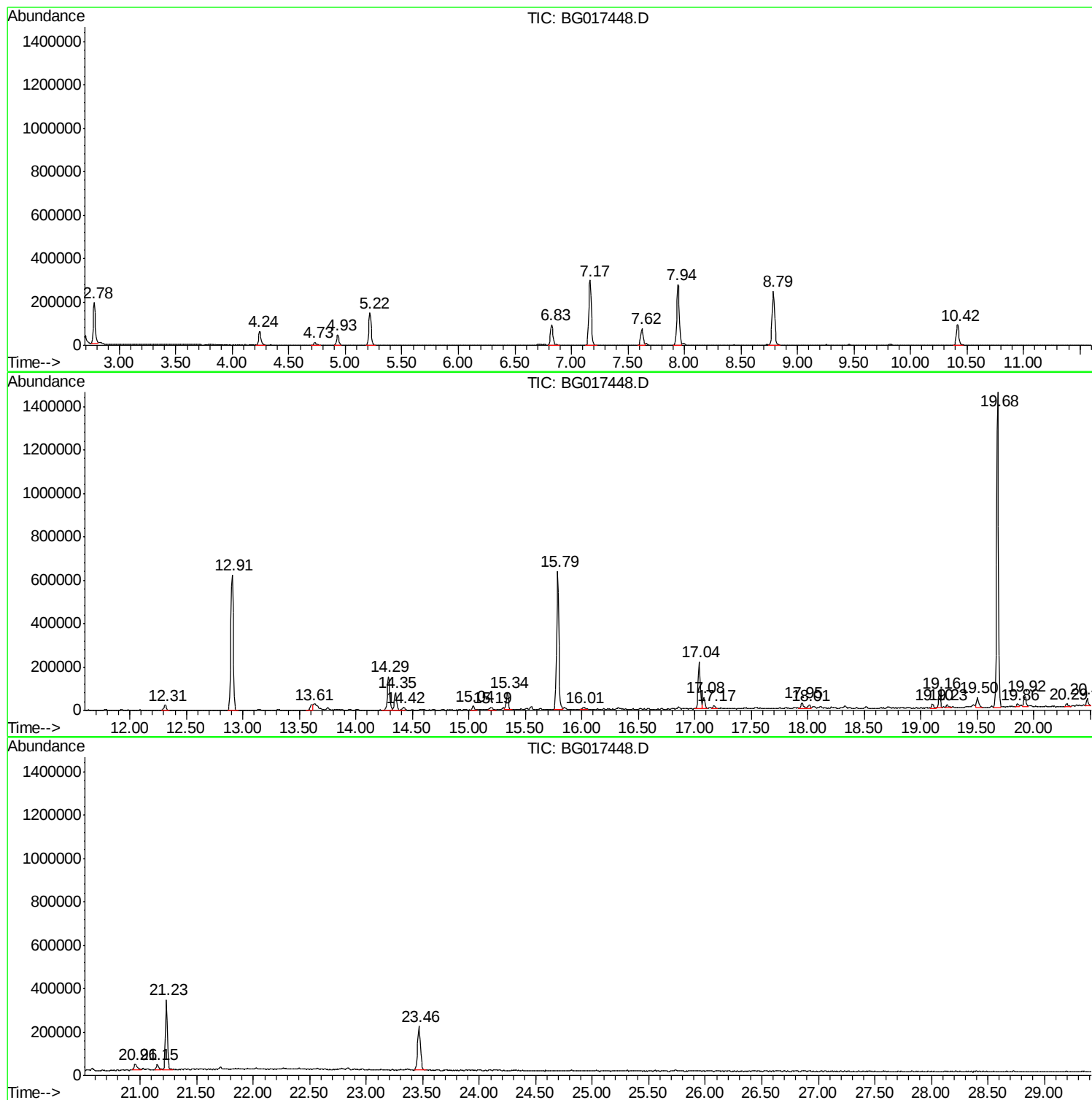
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Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
SS043MW010-150601

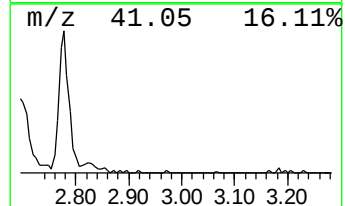
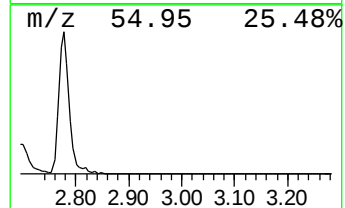
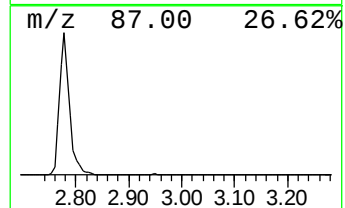
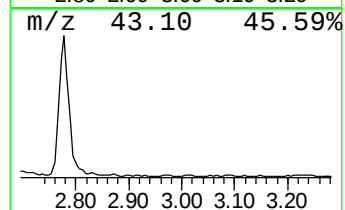
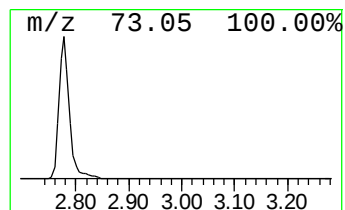
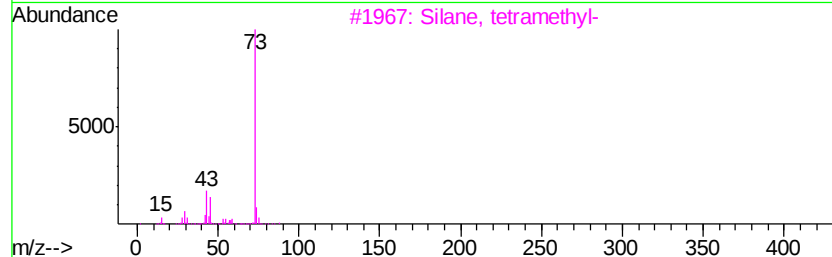
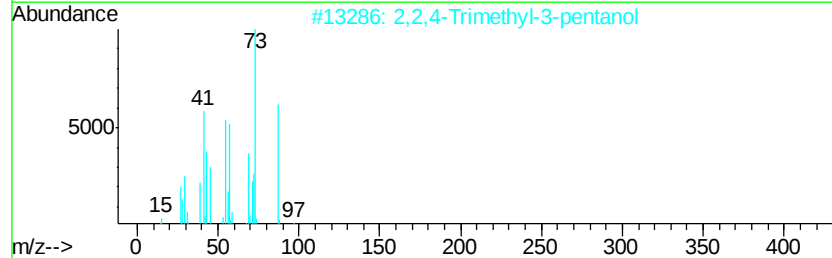
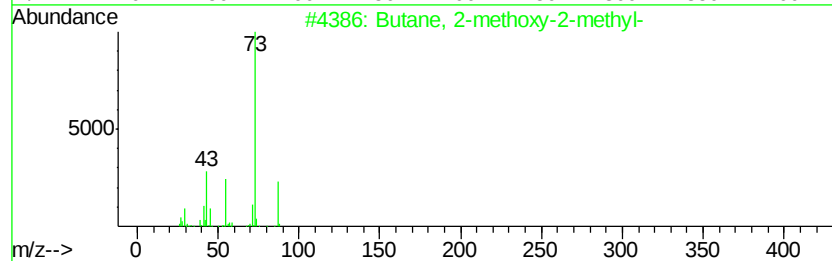
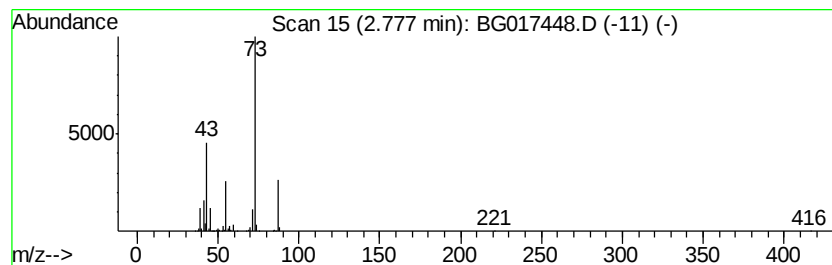
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 2.78 | 40.17 ng | 247188 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 2    |    | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 64   |
| 3    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 25   |
| 4    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 9    |
| 5    |    | N-Ethylformamide            | 73  | C3H7NO  | 000627-45-2 | 9    |



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BNA\_G  
ClientSampleId :  
SS043MW010-150601

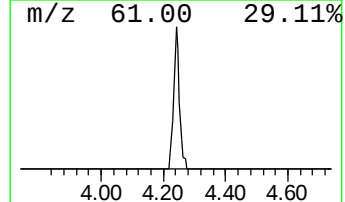
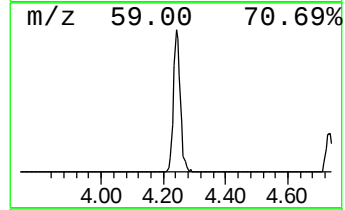
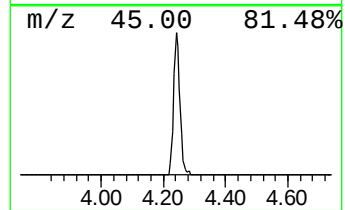
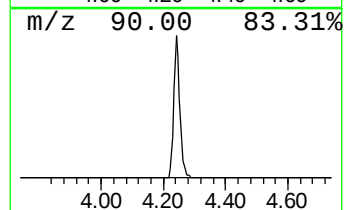
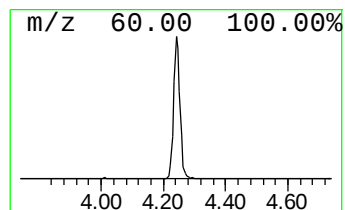
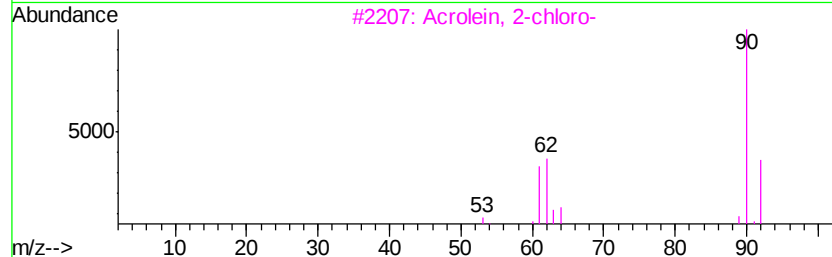
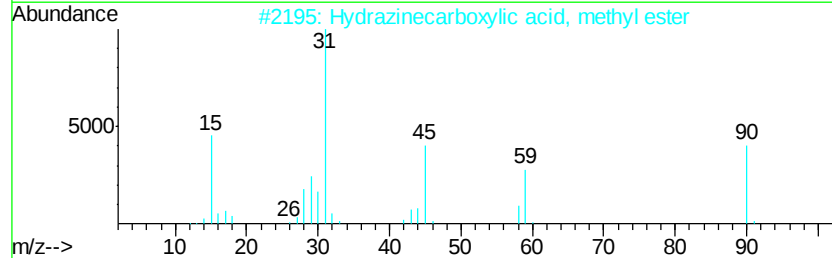
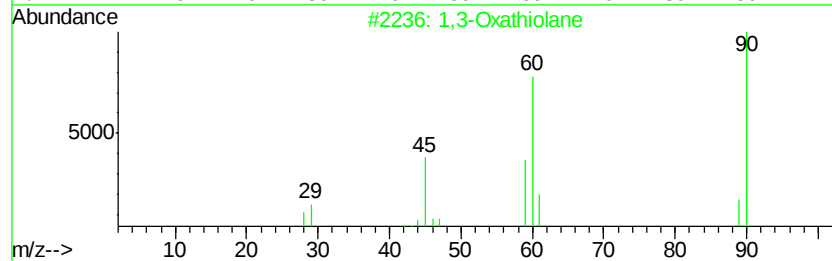
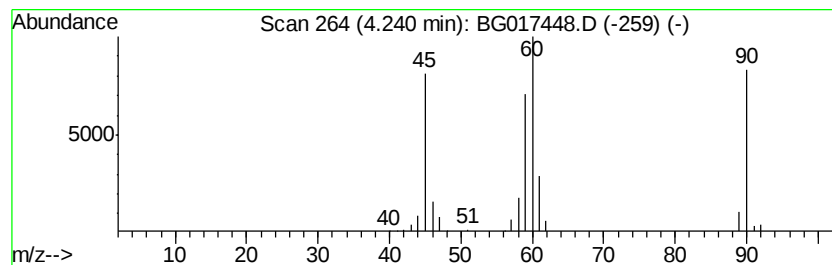
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 1,3-Oxathiolane Concentration Rank 4

| R.T. | EstConc  | Area  | Relative to ISTD       | R.T. |
|------|----------|-------|------------------------|------|
| 4.24 | 15.36 ng | 94522 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# | of | 5 | Tentative ID                        | MW | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|----|----------|-------------|------|
| 1    |    |   | 1,3-Oxathiolane                     | 90 | C3H6OS   | 002094-97-5 | 80   |
| 2    |    |   | Hydrazinecarboxylic acid, methyl... | 90 | C2H6N2O2 | 006294-89-9 | 59   |
| 3    |    |   | Acrolein, 2-chloro-                 | 90 | C3H3ClO  | 000683-51-2 | 45   |
| 4    |    |   | 3-Thietanol                         | 90 | C3H6OS   | 010304-16-2 | 38   |
| 5    |    |   | Thiirane                            | 60 | C2H4S    | 000420-12-2 | 25   |



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Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SS043MW010-150601

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

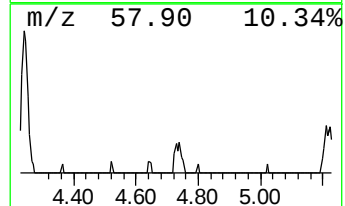
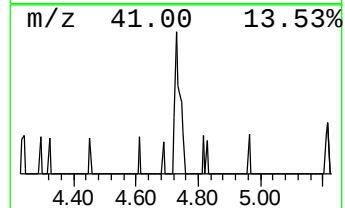
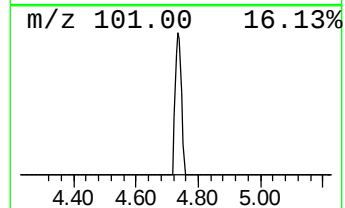
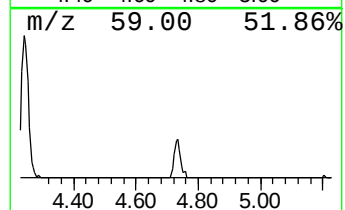
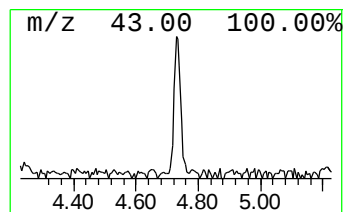
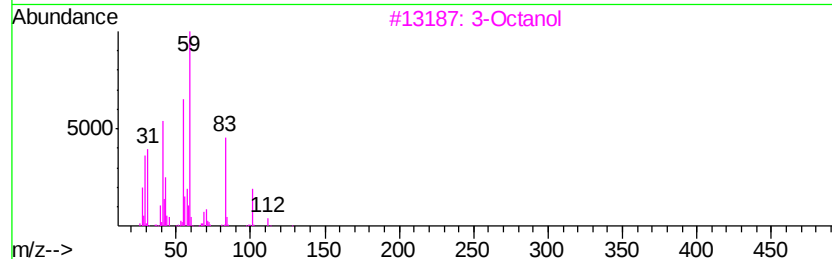
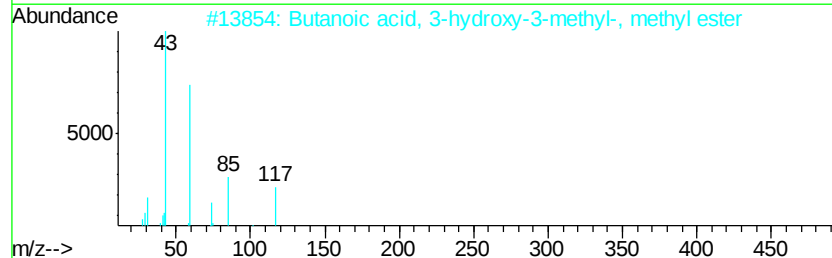
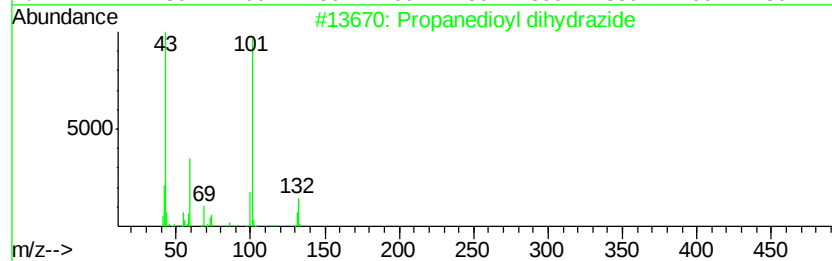
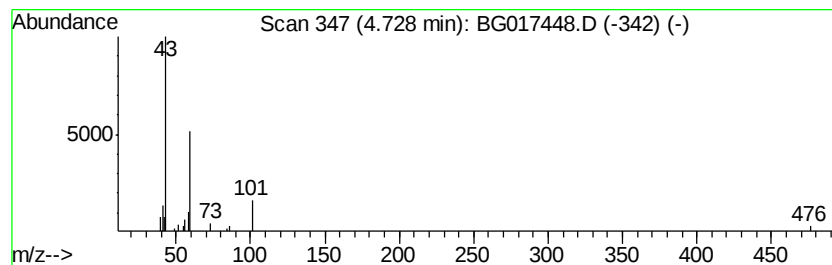
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown4.73 Concentration Rank 9

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 4.73 | 2.94 ng | 18085 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Propanedioyl dihydrazide            | 132 | C3H8N4O2 | 003815-86-9 | 39   |
| 2    |    | Butanoic acid, 3-hydroxy-3-methy... | 132 | C6H12O3  | 006149-45-7 | 33   |
| 3    |    | 3-Octanol                           | 130 | C8H18O   | 000589-98-0 | 33   |
| 4    |    | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 9    |
| 5    |    | Butanedioic acid, diazo-, dimeth... | 172 | C6H8N2O4 | 055514-36-8 | 9    |



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Misc :  
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Instrument :  
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ClientSampleId :  
SS043MW010-150601

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

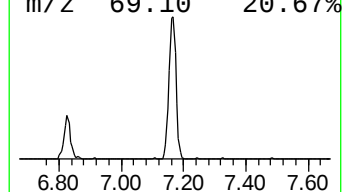
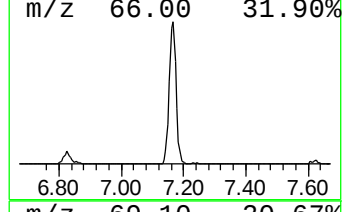
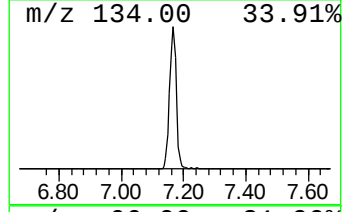
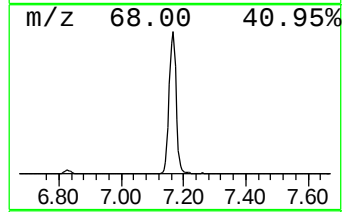
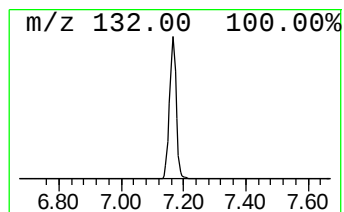
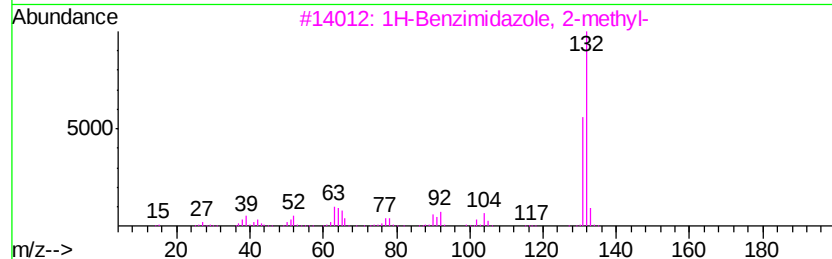
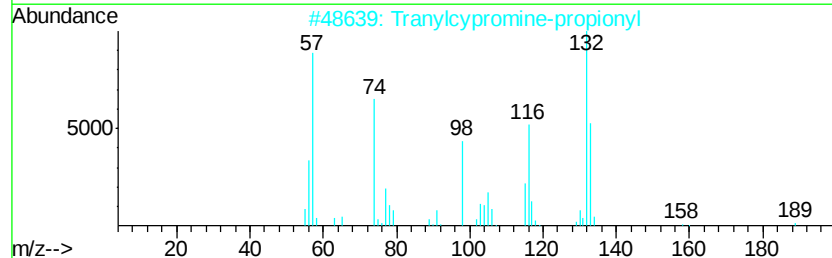
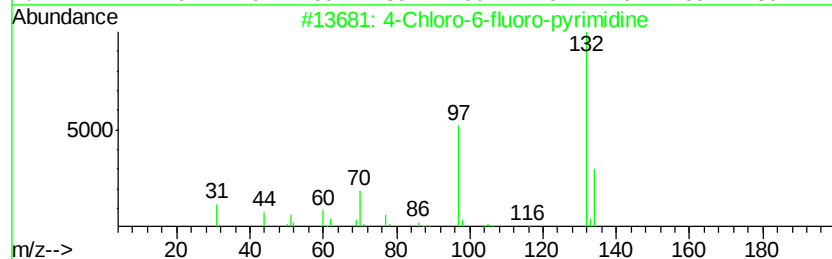
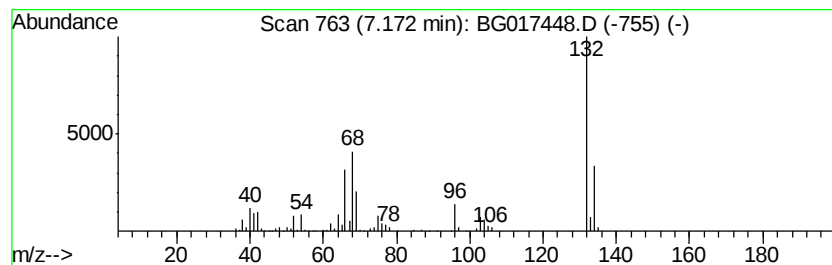
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 unknown7.17 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 7.17 | 74.52 ng | 458512 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 27   |
| 2    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 22   |
| 3    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 22   |
| 4    |    | 1,3-Cyclopentanedione, 2-chloro- | 132 | C5H5ClO2  | 014203-19-1  | 20   |
| 5    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |



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SS043MW010-150601

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

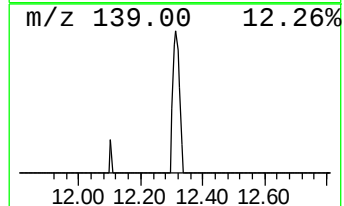
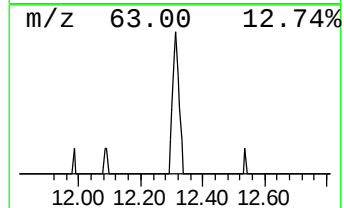
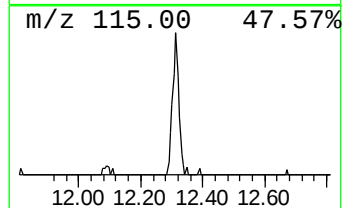
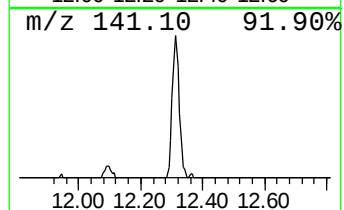
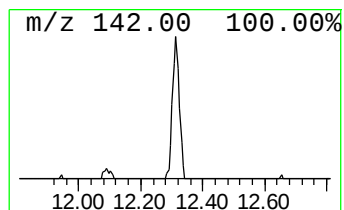
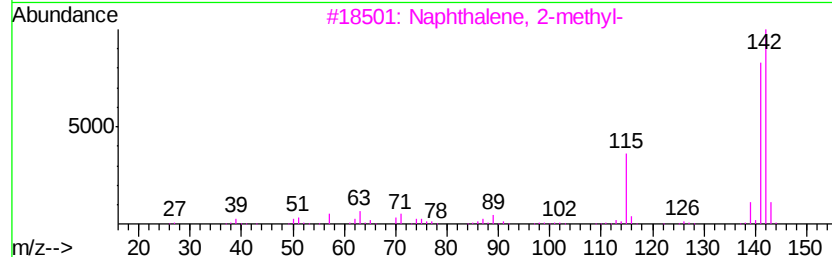
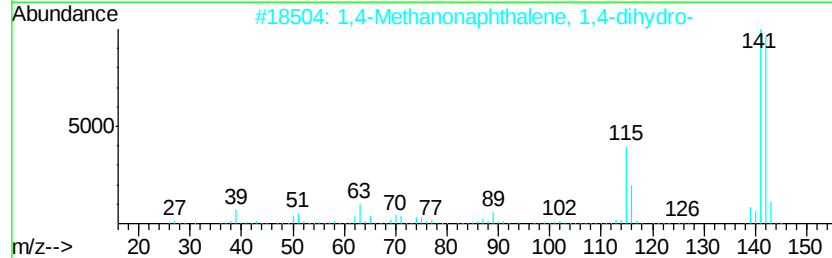
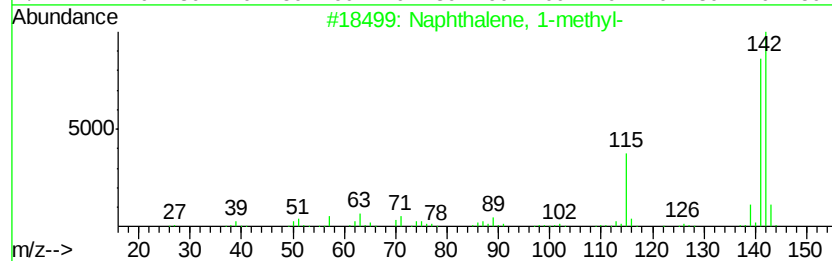
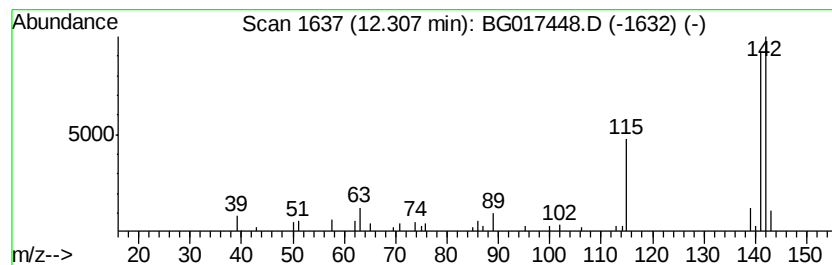
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Naphthalene, 1-methyl- Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.31 | 4.55 ng | 36238 | Naphthalene-d8   | 10.42 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 83   |
| 2    |    |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 83   |
| 3    |    |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 72   |
| 4    |    |   | 3,4-Difluorobenzaldehyde            | 142 | C7H4F2O | 034036-07-2 | 59   |
| 5    |    |   | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10  | 002443-46-1 | 59   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060415\  
Data File : BG017448.D  
Acq On : 4 Jun 2015 18:58  
Operator : TP/IZ  
Sample : G2491-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

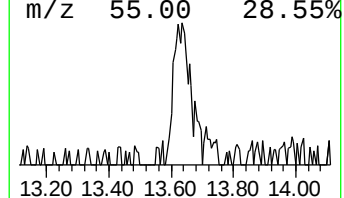
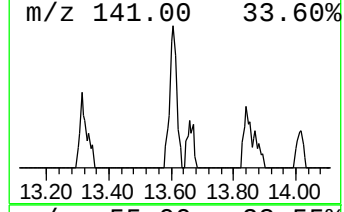
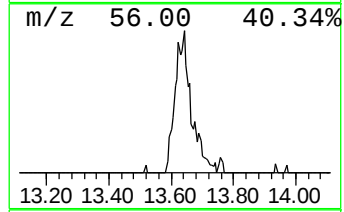
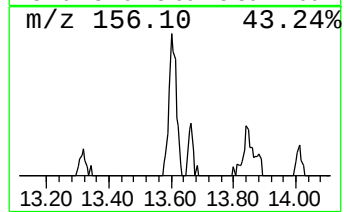
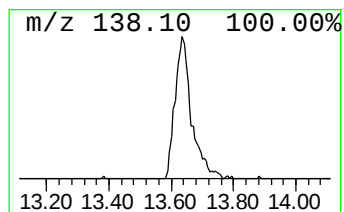
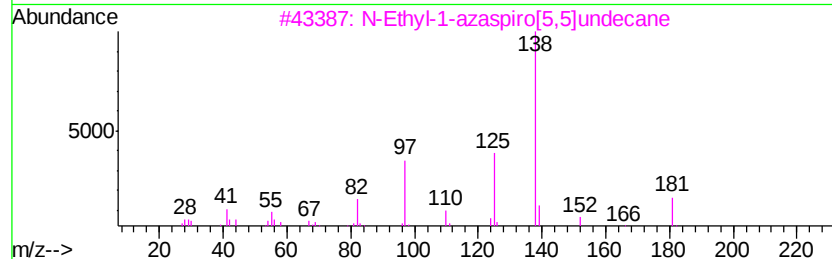
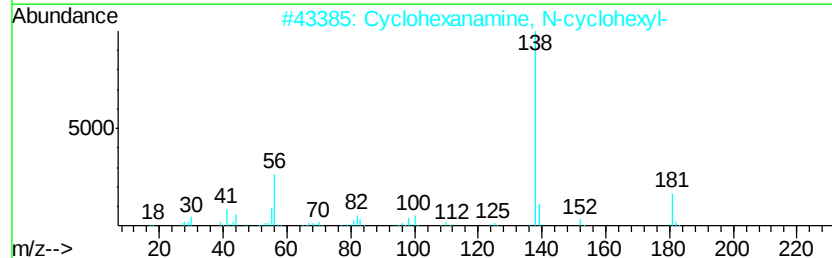
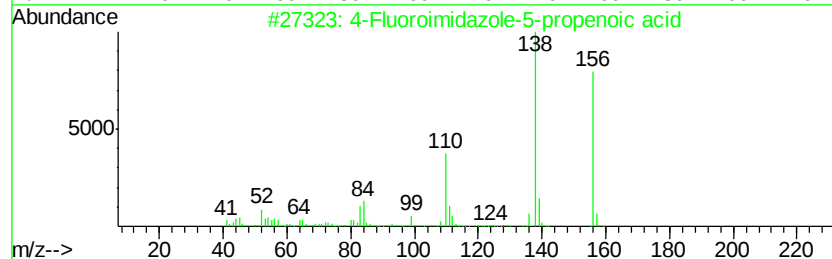
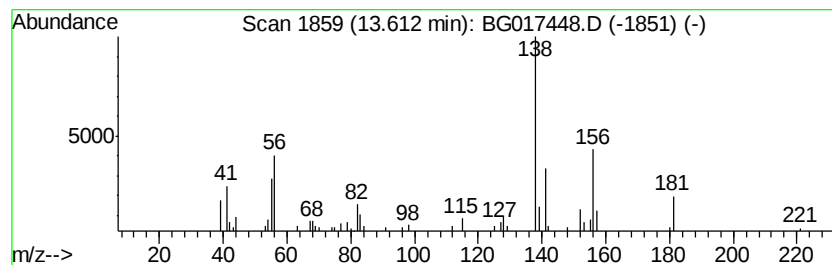
Instrument :  
BNA\_G  
ClientSampleId :  
SS043MW010-150601

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 unknown13.61 Concentration Rank 8

| R.T.    | EstConc                             | Area           | Relative to ISTD | R.T.      |
|---------|-------------------------------------|----------------|------------------|-----------|
| 13.61   | 3.48 ng                             | 40612          | Acenaphthene-d10 | 14.29     |
| Hit# of | 5                                   | Tentative ID   | MW MolForm       | CAS# Qual |
| 1       | 4-Fluoroimidazole-5-propenoic acid  | 156 C6H5FN2O2  | 060010-44-8      | 46        |
| 2       | Cyclohexanamine, N-cyclohexyl-      | 181 C12H23N    | 000101-83-7      | 43        |
| 3       | N-Ethyl-1-azaspiro[5,5]undecane     | 181 C12H23N    | 1000101-78-6     | 38        |
| 4       | 1-Penten-3-one, 4-methyl-1-(1-pi... | 181 C11H19NO   | 013606-83-2      | 35        |
| 5       | (Methyl)(phenyl)dithiophosphinic... | 369 C19H32NPS2 | 1000162-91-1     | 28        |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060415\  
Data File : BG017448.D  
Acq On : 4 Jun 2015 18:58  
Operator : TP/IZ  
Sample : G2491-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SS043MW010-150601

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

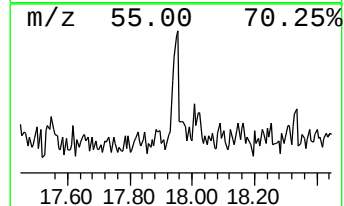
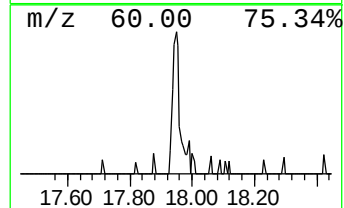
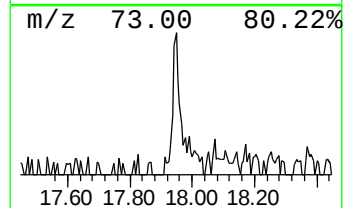
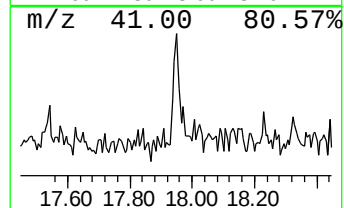
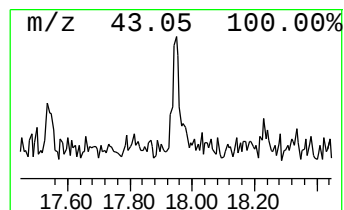
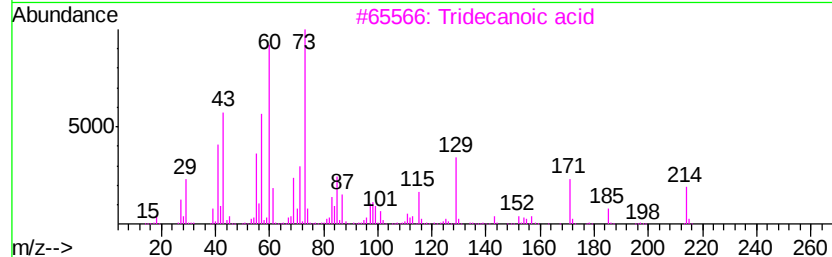
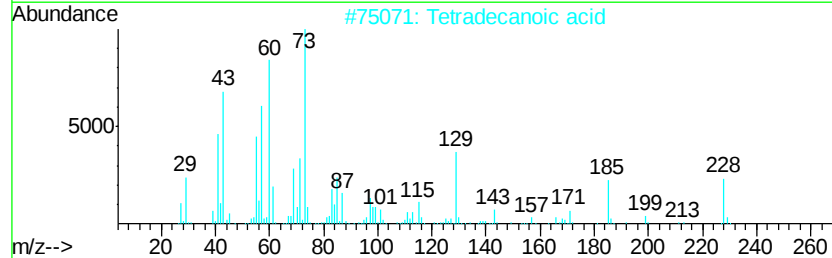
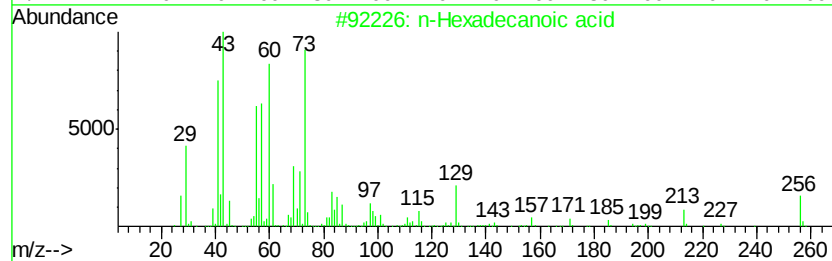
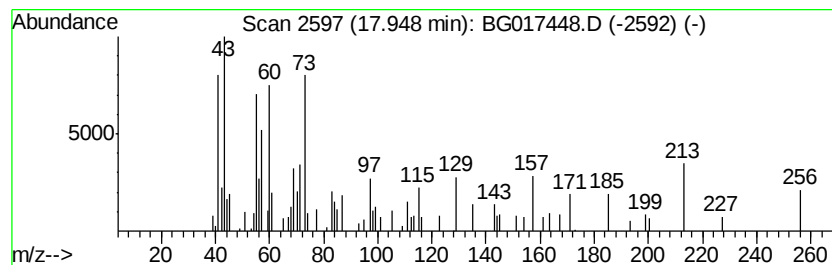
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 n-Hexadecanoic acid Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 17.95 | 2.94 ng | 44960 | Phenanthrene-d10 | 17.04 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 58   |
| 2       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 53   |
| 3       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 50   |
| 4       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 47   |
| 5       |   | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 47   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060415\  
Data File : BG017448.D  
Acq On : 4 Jun 2015 18:58  
Operator : TP/IZ  
Sample : G2491-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SS043MW010-150601

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

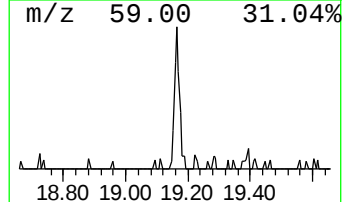
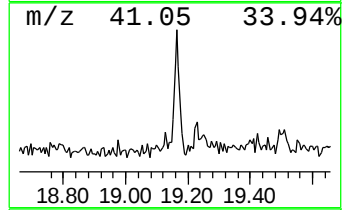
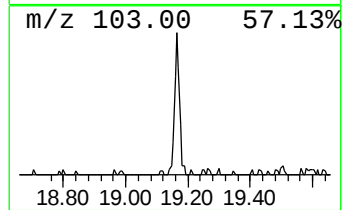
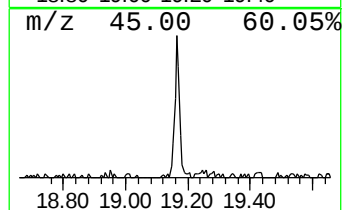
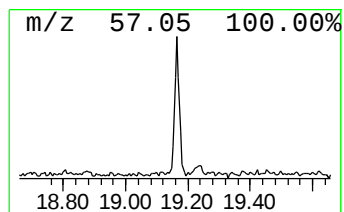
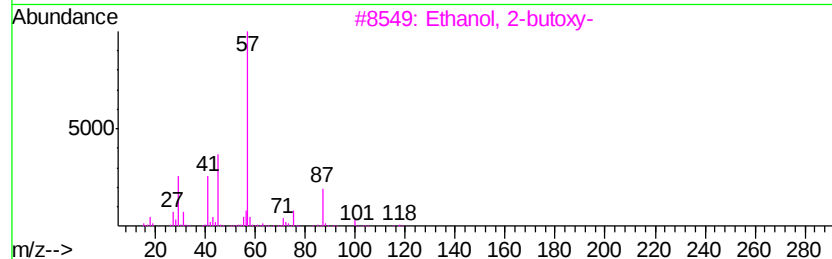
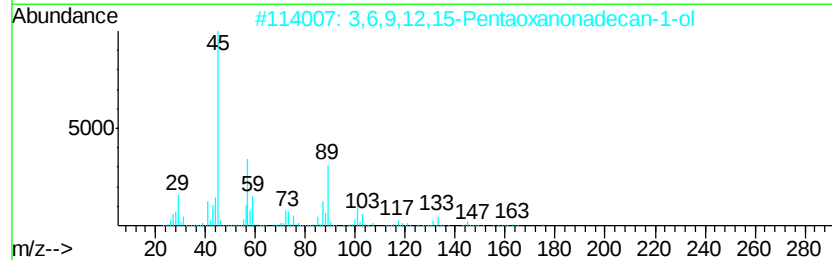
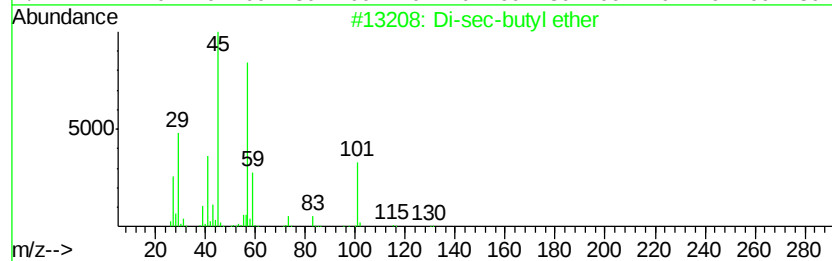
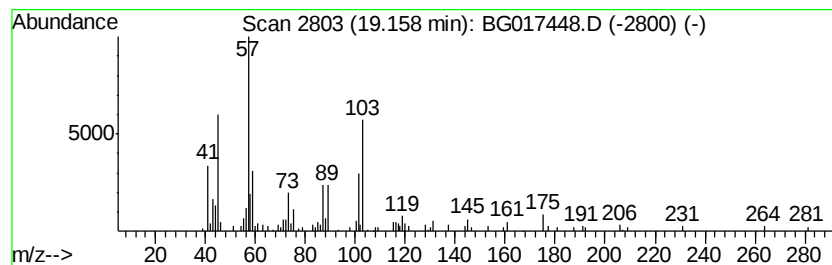
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 unknown19.16 Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 19.16 | 3.48 ng | 73037 | Chrysene-d12     | 21.23 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Di-sec-butyl ether                  | 130 | C8H18O   | 006863-58-7 | 43   |
| 2    |    | 3,6,9,12,15-Pentaoxanonadecan-1-ol  | 294 | C14H30O6 | 001786-94-3 | 38   |
| 3    |    | Ethanol, 2-butoxy-                  | 118 | C6H14O2  | 000111-76-2 | 38   |
| 4    |    | Orthoformic acid, tri-sec-butyl ... | 232 | C13H28O3 | 016754-48-6 | 38   |
| 5    |    | 3,6,9,12-Tetraoxahexadecan-1-ol     | 250 | C12H26O5 | 001559-34-8 | 38   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060415\  
Data File : BG017448.D  
Acq On : 4 Jun 2015 18:58  
Operator : TP/IZ  
Sample : G2491-03  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SS043MW010-150601

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.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 |
| Butane, 2-methoxy... | 2.78  | 40.2    | ng    | 247188   | 1                     | 7.62  | 123057 | 20.0 |
| 1,3-Oxathiolane      | 4.24  | 15.4    | ng    | 94522    | 1                     | 7.62  | 123057 | 20.0 |
| unknown4.73          | 4.73  | 2.9     | ng    | 18085    | 1                     | 7.62  | 123057 | 20.0 |
| unknown7.17          | 7.17  | 74.5    | ng    | 458512   | 1                     | 7.62  | 123057 | 20.0 |
| Naphthalene, 1-me... | 12.31 | 4.5     | ng    | 36238    | 2                     | 10.42 | 159355 | 20.0 |
| unknown13.61         | 13.61 | 3.5     | ng    | 40612    | 3                     | 14.29 | 233568 | 20.0 |
| n-Hexadecanoic acid  | 17.95 | 2.9     | ng    | 44960    | 4                     | 17.04 | 306147 | 20.0 |
| unknown19.16         | 19.16 | 3.5     | ng    | 73037    | 5                     | 21.23 | 419687 | 20.0 |