

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060415\  
 Data File : BG017462.D  
 Acq On : 5 Jun 2015 5:24  
 Operator : TP/IZ  
 Sample : G2474-04  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C-4

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         | 2.770       | 10            | 14          | 22           | rVB      | 39111          | 48887         | 5.77%           | 0.797%        |
| 2         | 4.732       | 344           | 348         | 353          | rVB      | 15593          | 20065         | 2.37%           | 0.327%        |
| 3         | 5.214       | 425           | 430         | 441          | rBV      | 303933         | 422690        | 49.85%          | 6.888%        |
| 4         | 6.824       | 697           | 704         | 714          | rBV      | 301449         | 470754        | 55.52%          | 7.671%        |
| 5         | 7.165       | 755           | 762         | 770          | rBV      | 303880         | 459202        | 54.16%          | 7.483%        |
| 6         | 7.623       | 834           | 840         | 846          | rBV      | 68575          | 99588         | 11.75%          | 1.623%        |
| 7         | 7.946       | 886           | 895         | 902          | rBV      | 184694         | 294215        | 34.70%          | 4.794%        |
| 8         | 8.786       | 1031          | 1038        | 1047         | rBV      | 177529         | 285880        | 33.72%          | 4.658%        |
| 9         | 10.420      | 1308          | 1316        | 1323         | rBV      | 83199          | 136569        | 16.11%          | 2.225%        |
| 10        | 12.905      | 1732          | 1739        | 1750         | rBV      | 349709         | 492555        | 58.09%          | 8.026%        |
| 11        | 13.751      | 1878          | 1883        | 1890         | rBV      | 37581          | 55578         | 6.55%           | 0.906%        |
| 12        | 14.286      | 1969          | 1974        | 1982         | rVB2     | 131051         | 197294        | 23.27%          | 3.215%        |
| 13        | 15.784      | 2222          | 2229        | 2237         | rBV2     | 390783         | 566631        | 66.83%          | 9.233%        |
| 14        | 16.013      | 2264          | 2268        | 2275         | rBV2     | 6617           | 11486         | 1.35%           | 0.187%        |
| 15        | 16.806      | 2396          | 2403        | 2408         | rBV2     | 6518           | 9458          | 1.12%           | 0.154%        |
| 16        | 17.035      | 2437          | 2442        | 2447         | rBV      | 193465         | 278719        | 32.87%          | 4.542%        |
| 17        | 17.082      | 2447          | 2450        | 2456         | rVB      | 24312          | 30629         | 3.61%           | 0.499%        |
| 18        | 17.429      | 2505          | 2509        | 2519         | rBV3     | 8891           | 14517         | 1.71%           | 0.237%        |
| 19        | 17.946      | 2594          | 2597        | 2604         | rVB3     | 21288          | 34875         | 4.11%           | 0.568%        |
| 20        | 18.105      | 2620          | 2624        | 2628         | rBV4     | 5362           | 9261          | 1.09%           | 0.151%        |
| 21        | 18.804      | 2739          | 2743        | 2748         | rBV3     | 28383          | 43457         | 5.13%           | 0.708%        |
| 22        | 19.104      | 2788          | 2794        | 2799         | rBV      | 59620          | 73733         | 8.70%           | 1.202%        |
| 23        | 19.468      | 2847          | 2856        | 2861         | rBV      | 49114          | 69842         | 8.24%           | 1.138%        |
| 24        | 19.679      | 2886          | 2892        | 2897         | rBV      | 676080         | 847909        | 100.00%         | 13.817%       |
| 25        | 19.967      | 2937          | 2941        | 2948         | rVB7     | 8421           | 16217         | 1.91%           | 0.264%        |
| 26        | 20.126      | 2964          | 2968        | 2972         | rVB4     | 7085           | 11197         | 1.32%           | 0.182%        |
| 27        | 20.214      | 2978          | 2983        | 2987         | rVB5     | 8169           | 14817         | 1.75%           | 0.241%        |
| 28        | 20.878      | 3089          | 3096        | 3099         | rBV7     | 5721           | 11096         | 1.31%           | 0.181%        |
| 29        | 20.949      | 3104          | 3108        | 3116         | rBV3     | 54128          | 87726         | 10.35%          | 1.430%        |
| 30        | 21.231      | 3150          | 3156        | 3160         | rVV      | 312346         | 396917        | 46.81%          | 6.468%        |
| 31        | 21.266      | 3160          | 3162        | 3170         | rVB      | 25091          | 34191         | 4.03%           | 0.557%        |
| 32        | 21.830      | 3253          | 3258        | 3260         | rBV6     | 5758           | 10522         | 1.24%           | 0.171%        |
| 33        | 22.306      | 3334          | 3339        | 3350         | rBV7     | 24776          | 70592         | 8.33%           | 1.150%        |
| 34        | 22.400      | 3352          | 3355        | 3362         | rVB8     | 12591          | 20802         | 2.45%           | 0.339%        |

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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C-4

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 | 22.793 | 3417 | 3422 | 3426 | rBV4 | 21817  | 46698  | 5.51%  | 0.761% |
| 36 | 23.269 | 3499 | 3503 | 3509 | rVB2 | 14802  | 28535  | 3.37%  | 0.465% |
| 37 | 23.369 | 3516 | 3520 | 3528 | rVB  | 19427  | 38079  | 4.49%  | 0.621% |
| 38 | 23.463 | 3529 | 3536 | 3544 | rBV  | 177769 | 342408 | 40.38% | 5.580% |
| 39 | 23.992 | 3623 | 3626 | 3632 | rVB7 | 6464   | 11416  | 1.35%  | 0.186% |
| 40 | 25.737 | 3916 | 3923 | 3928 | rBV7 | 9320   | 21737  | 2.56%  | 0.354% |

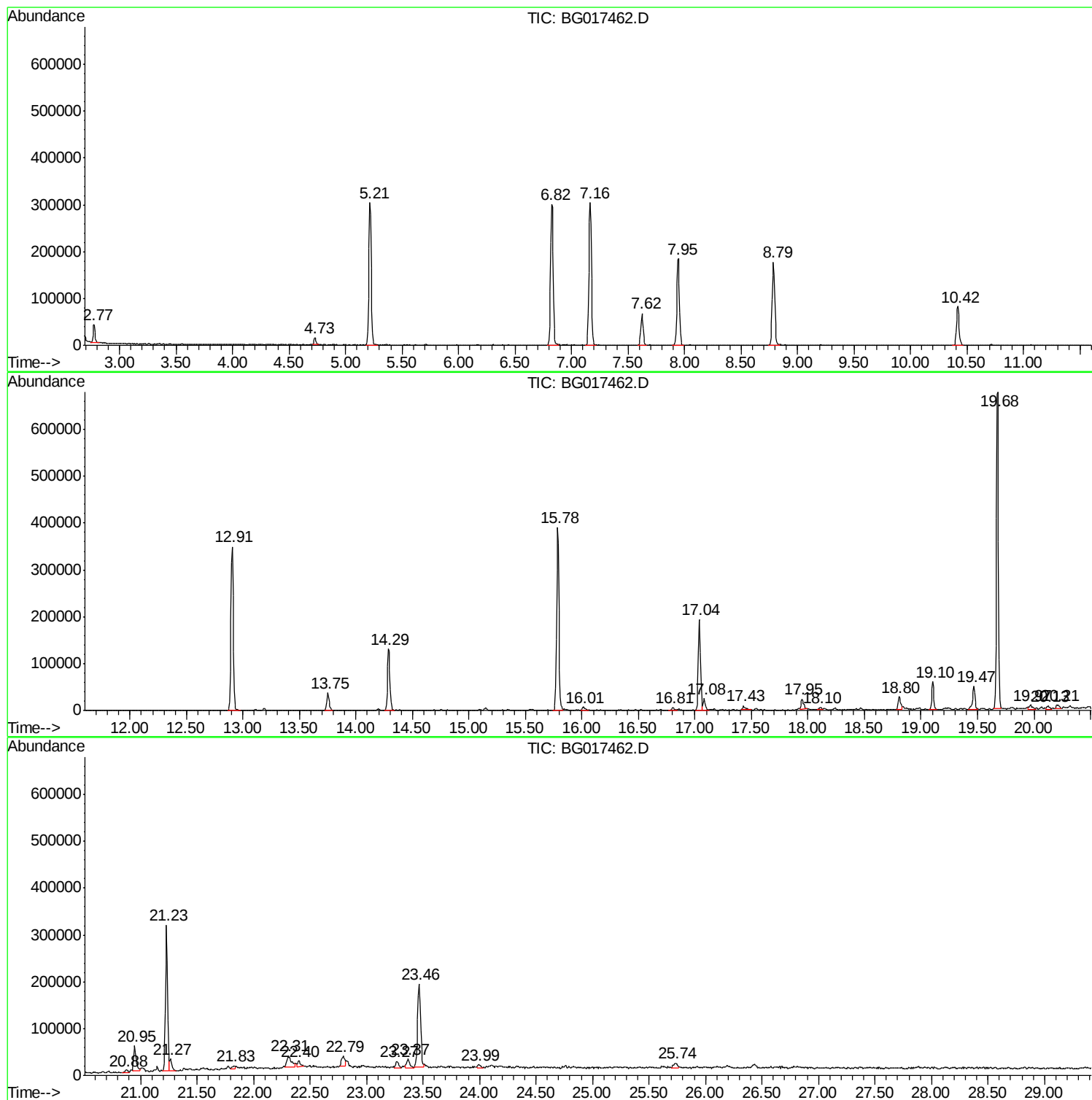
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Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060415\  
Data File : BG017462.D  
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Operator : TP/IZ  
Sample : G2474-04  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampled :  
C-4

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



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060415\  
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Operator : TP/IZ  
Sample : G2474-04  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C-4

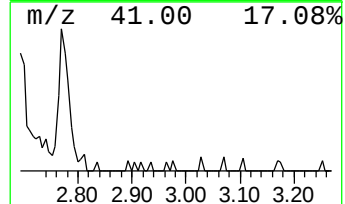
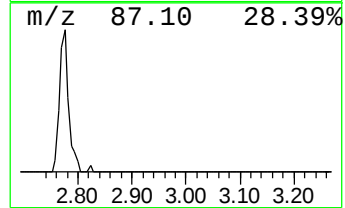
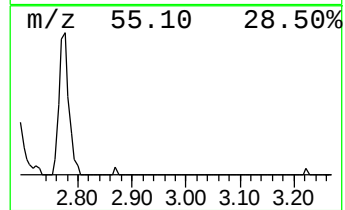
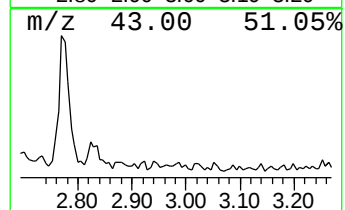
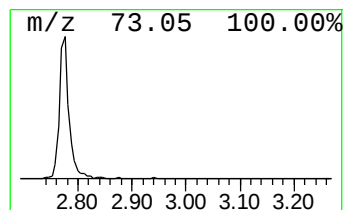
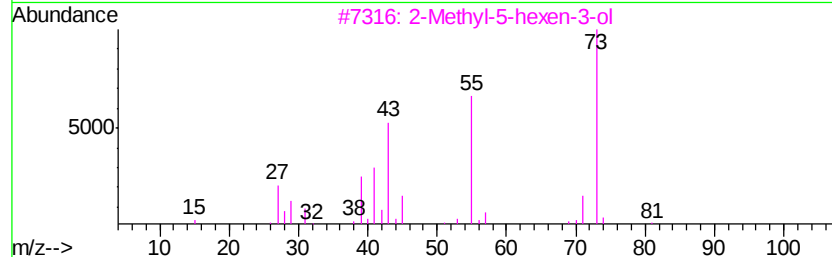
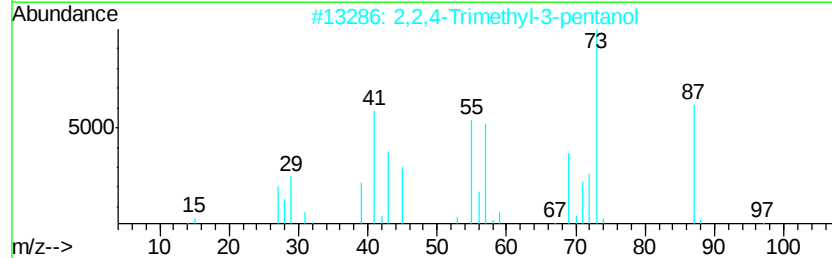
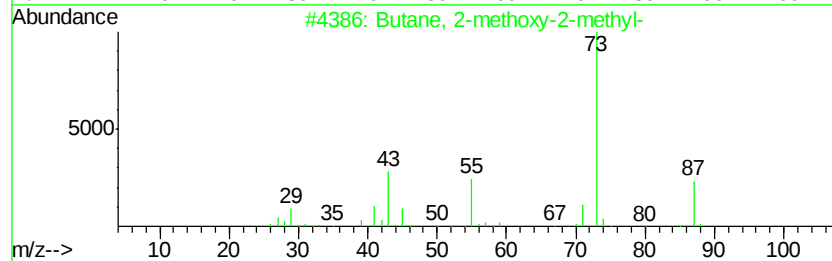
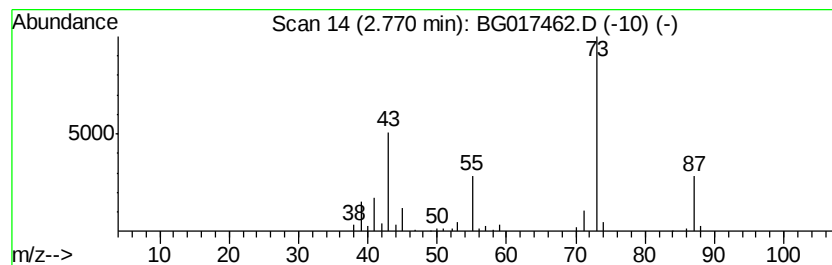
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 2.77 | 9.82 ng | 48887 | 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 | 38   |
| 3    |    | 2-Methyl-5-hexen-3-ol       | 114 | C7H14O  | 032815-70-6 | 37   |
| 4    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 23   |
| 5    |    | Acetamide, N-methyl-        | 73  | C3H7NO  | 000079-16-3 | 9    |



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BNA\_G  
ClientSampleId :  
C-4

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

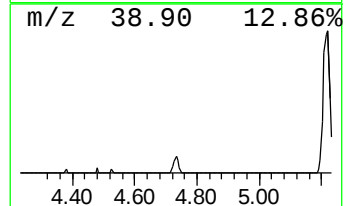
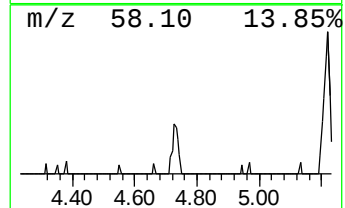
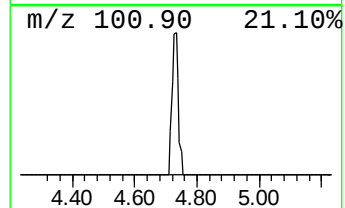
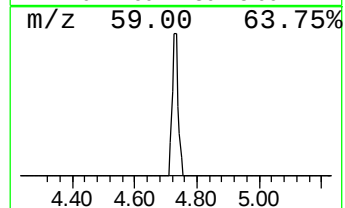
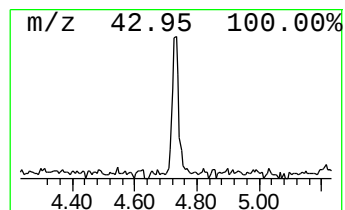
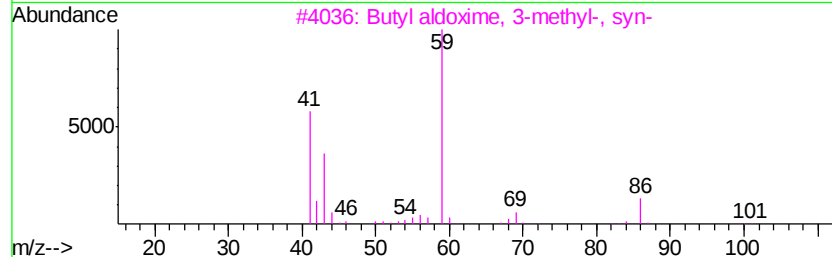
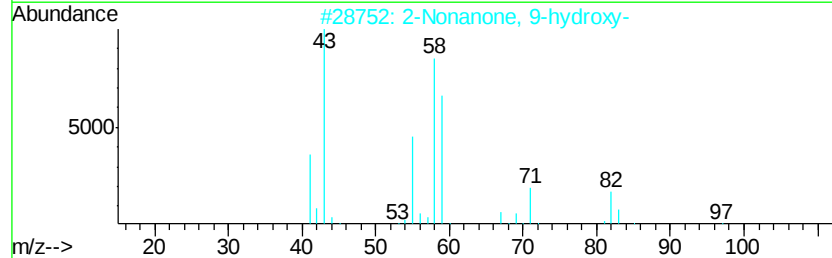
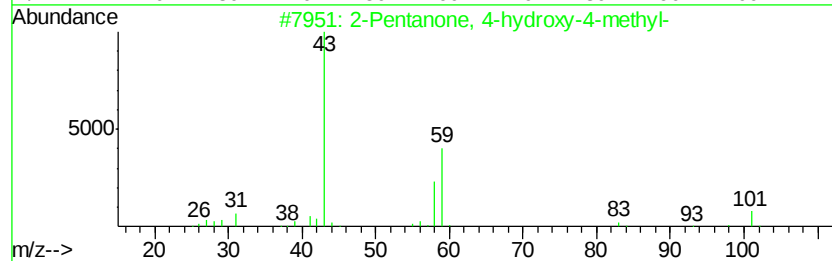
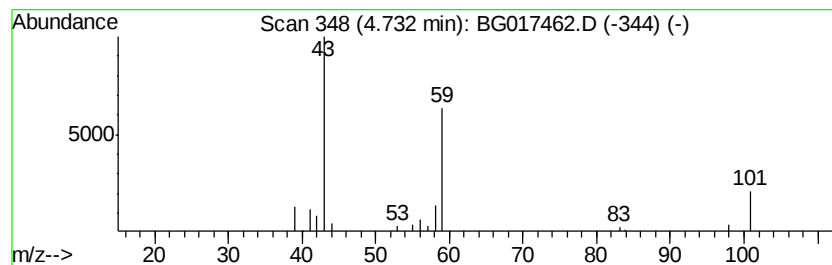
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 4.73 | 4.03 ng | 20065 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# of 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|-----------|----------------------------------|-----|---------|-------------|------|
| 1         | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 40   |
| 2         | 2-Nonanone, 9-hydroxy-           | 158 | C9H18O2 | 025368-56-3 | 28   |
| 3         | Butyl aldoxime, 3-methyl-, syn-  | 101 | C5H11NO | 005780-40-5 | 25   |
| 4         | 2,3-Butanedione, monooxime       | 101 | C4H7NO2 | 000057-71-6 | 25   |
| 5         | Butane                           | 58  | C4H10   | 000106-97-8 | 10   |



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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C-4

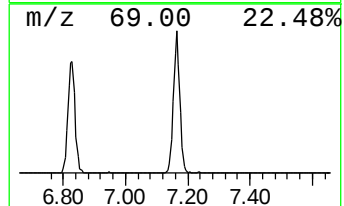
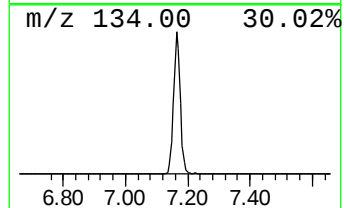
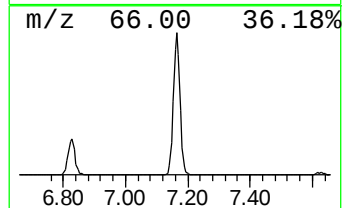
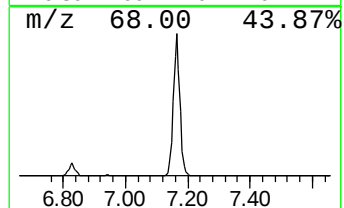
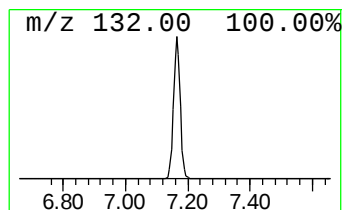
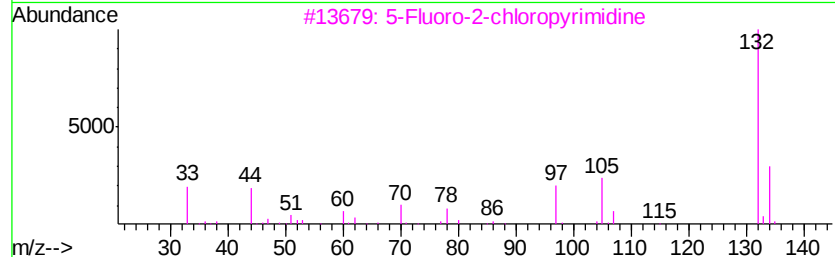
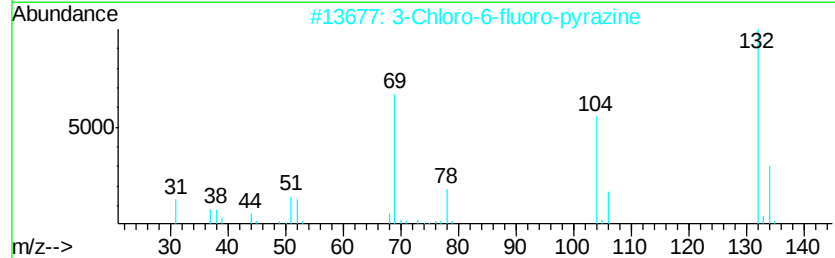
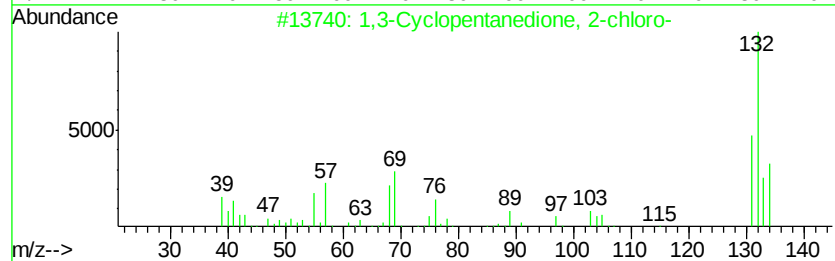
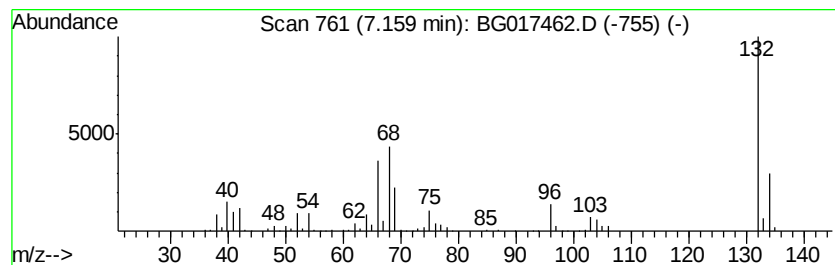
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 unknown7.16 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 7.16 | 92.22 ng | 459202 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# | of | Tentative ID                      | MW  | MolForm   | CAS#         | Qual |
|------|----|-----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1,3-Cyclopentanedione, 2-chloro-  | 132 | C5H5ClO2  | 014203-19-1  | 35   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine        | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 3    |    | 5-Fluoro-2-chloropyrimidine       | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 4    |    | Acetic acid, 2-benzimidazol-2-yl- | 176 | C9H8N2O2  | 013570-08-6  | 12   |
| 5    |    | 1H-Benzimidazole, 2-methyl-       | 132 | C8H8N2    | 000615-15-6  | 10   |



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Misc :  
ALS Vial : 21 Sample Multiplier: 1

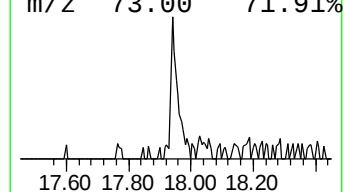
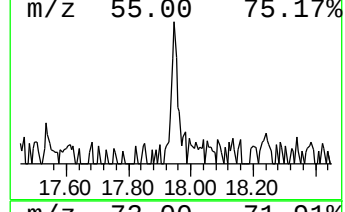
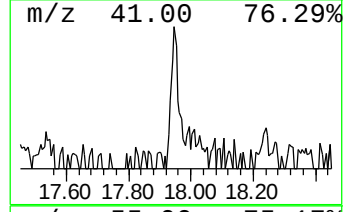
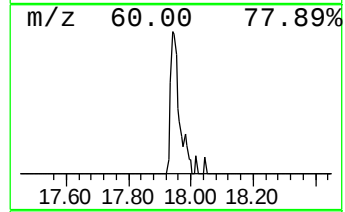
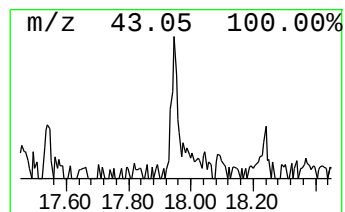
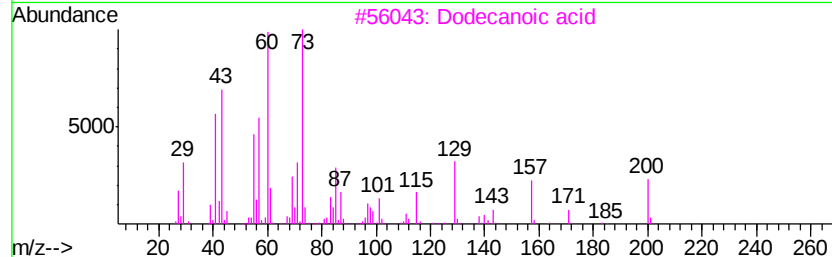
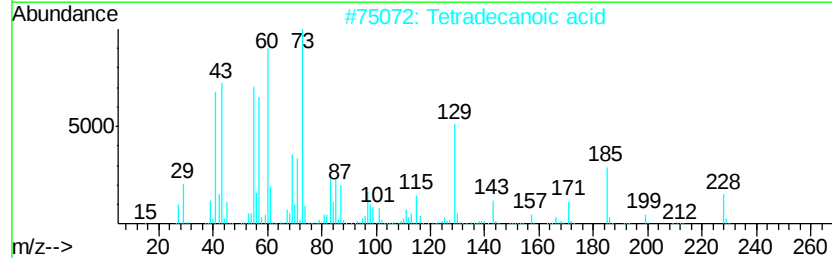
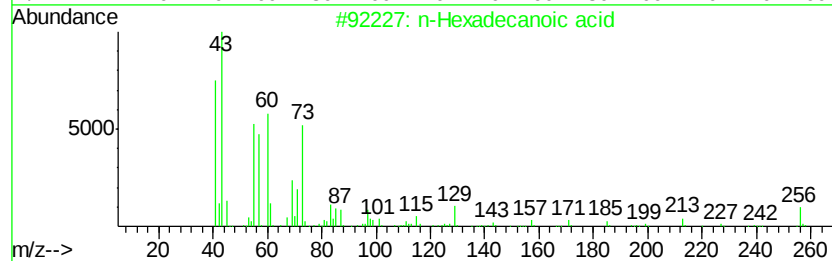
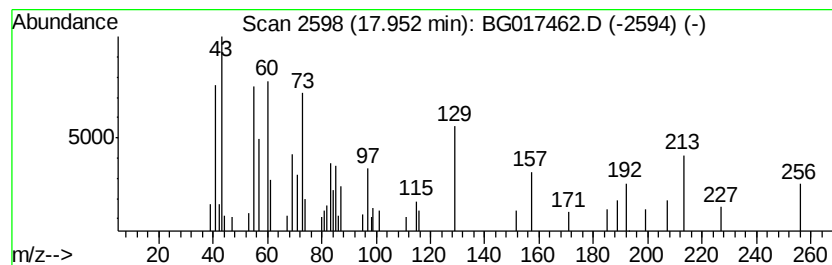
Instrument :  
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 n-Hexadecanoic acid Concentration Rank 8

| R.T.      | EstConc             | Area  | Relative to ISTD |             | R.T.  |
|-----------|---------------------|-------|------------------|-------------|-------|
| 17.95     | 2.50 ng             | 34875 | Phenanthrene-d10 |             | 17.04 |
| Hit# of 5 | Tentative ID        | MW    | MolForm          | CAS#        | Qual  |
| 1         | n-Hexadecanoic acid | 256   | C16H32O2         | 000057-10-3 | 52    |
| 2         | Tetradecanoic acid  | 228   | C14H28O2         | 000544-63-8 | 43    |
| 3         | Dodecanoic acid     | 200   | C12H24O2         | 000143-07-7 | 43    |
| 4         | Pentadecanoic acid  | 242   | C15H30O2         | 001002-84-2 | 32    |
| 5         | Tridecanoic acid    | 214   | C13H26O2         | 000638-53-9 | 32    |



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

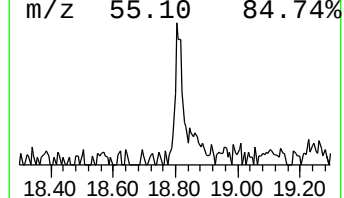
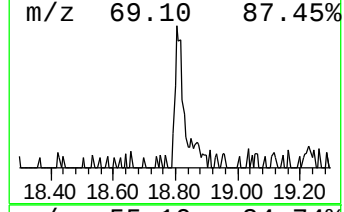
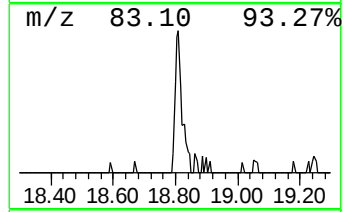
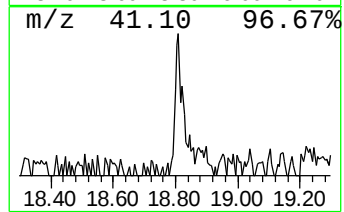
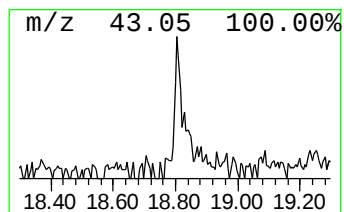
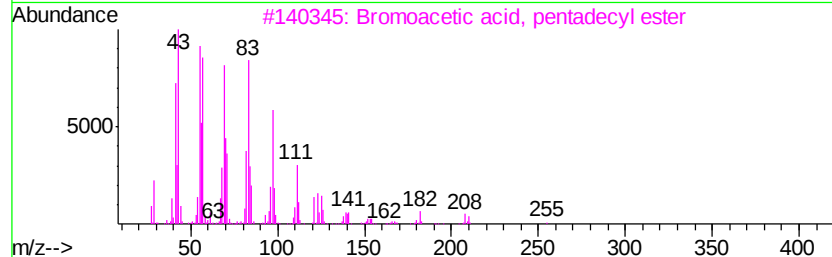
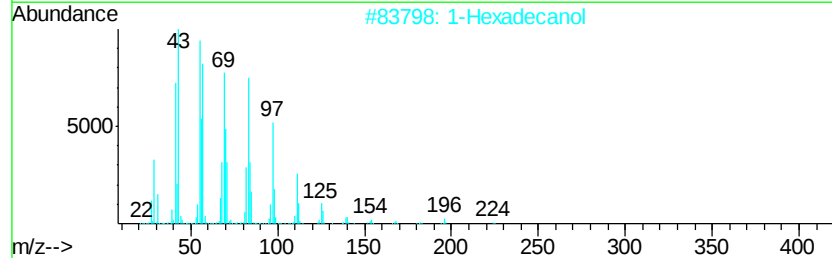
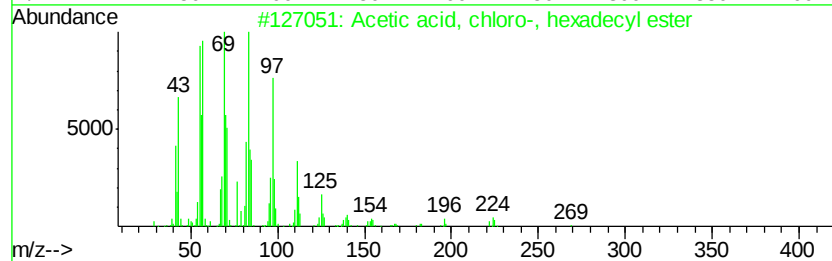
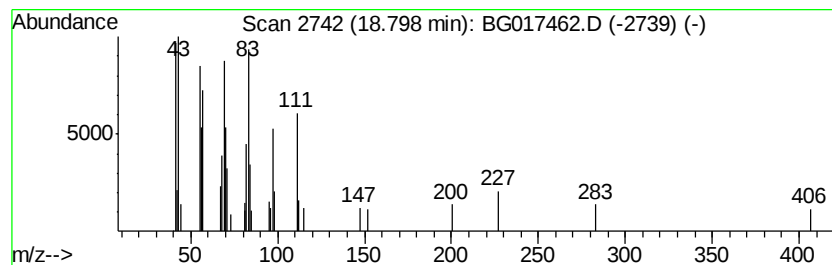
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Acetic acid, chloro-, hexad... Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 18.80 | 3.12 ng | 43457 | Phenanthrene-d10 | 17.04 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|------------|-------------|------|
| 1    |    |   | Acetic acid, chloro-, hexadecyl ... | 318 | C18H35ClO2 | 052132-58-8 | 91   |
| 2    |    |   | 1-Hexadecanol                       | 242 | C16H34O    | 036653-82-4 | 91   |
| 3    |    |   | Bromoacetic acid, pentadecyl ester  | 348 | C17H33BrO2 | 131143-01-6 | 91   |
| 4    |    |   | Cyclohexadecane                     | 224 | C16H32     | 000295-65-8 | 91   |
| 5    |    |   | Cyclopentadecane                    | 210 | C15H30     | 000295-48-7 | 90   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060415\  
Data File : BG017462.D  
Acq On : 5 Jun 2015 5:24  
Operator : TP/IZ  
Sample : G2474-04  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C-4

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

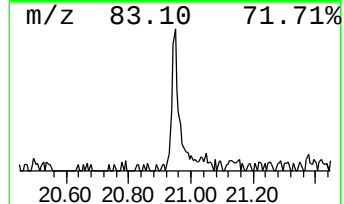
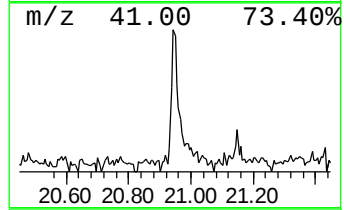
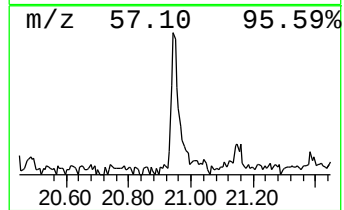
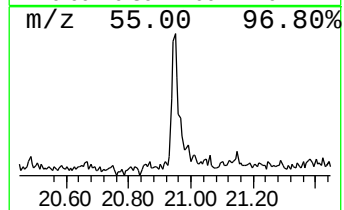
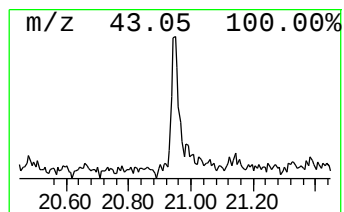
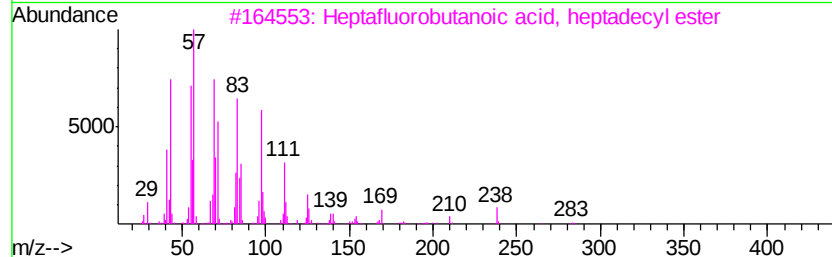
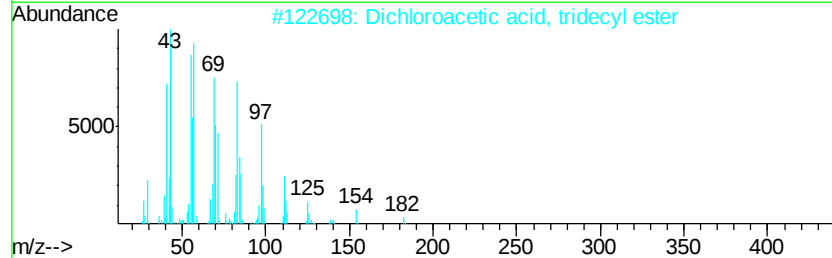
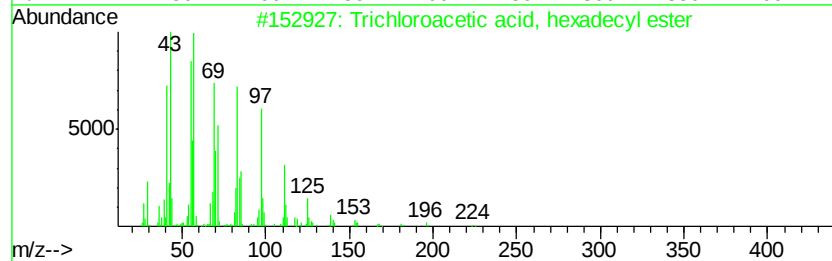
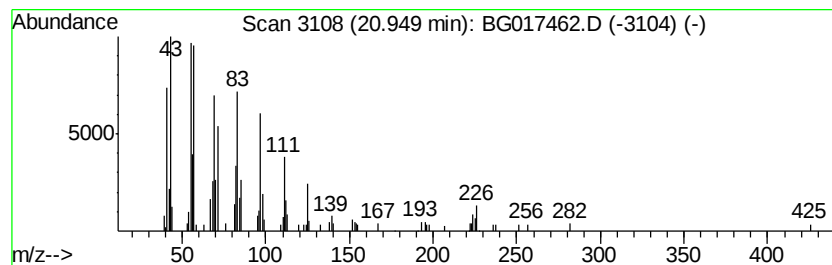
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Trichloroacetic acid, hexad... Concentration Rank 4

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 20.95 | 4.42 ng | 87726 | Chrysene-d12     | 21.23 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1  | 76   |
| 2    |    | Dichloroacetic acid, tridecyl ester | 310 | C15H28Cl2O2 | 1000280-48-3 | 70   |
| 3    |    | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2  | 1000282-97-3 | 68   |
| 4    |    | 1-Docosanol                         | 326 | C22H46O     | 000661-19-8  | 68   |
| 5    |    | Cyclohexadecane                     | 224 | C16H32      | 000295-65-8  | 64   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060415\  
Data File : BG017462.D  
Acq On : 5 Jun 2015 5:24  
Operator : TP/IZ  
Sample : G2474-04  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

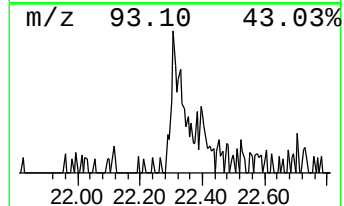
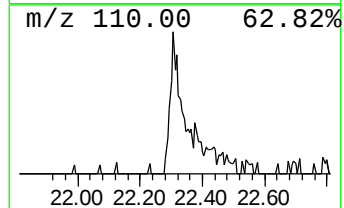
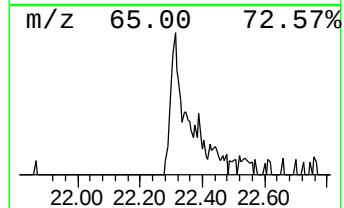
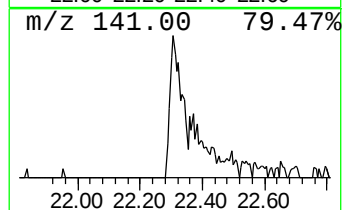
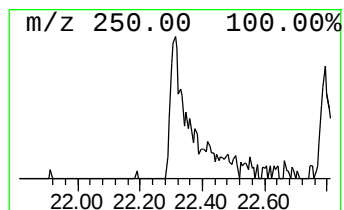
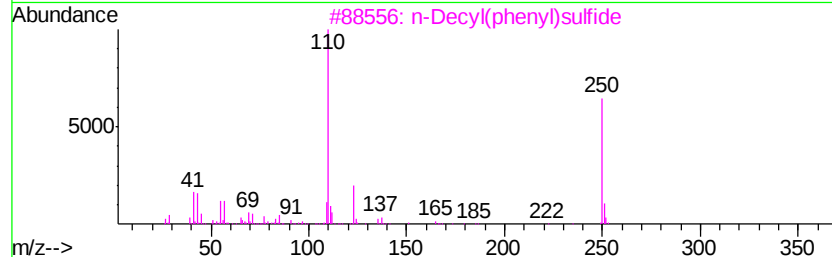
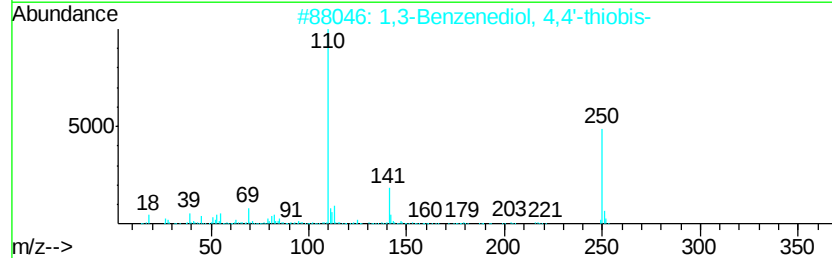
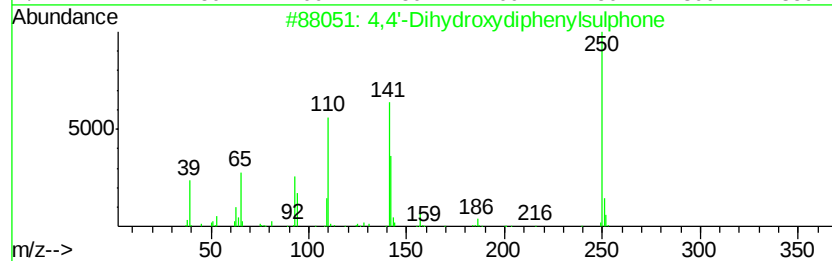
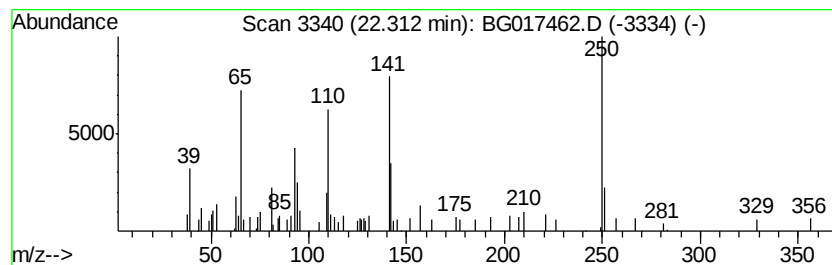
Instrument :  
BNA\_G  
ClientSampled :  
C-4

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 8 4,4'-Dihydroxydiphenylsulphone Concentration Rank 6

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.        |      |      |
|---------|-------------------------------------|--------------|------------------|-------------|------|------|
| 22.31   | 3.56 ng                             | 70592        | Chrysene-d12     | 21.23       |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | 4,4'-Dihydroxydiphenylsulphone      | 250          | C12H10O4S        | 000080-09-1 | 93   |      |
| 2       | 1,3-Benzenediol, 4,4'-thiobis-      | 250          | C12H10O4S        | 000097-29-0 | 38   |      |
| 3       | n-Decyl(phenyl)sulfide              | 250          | C16H26S          | 013910-18-4 | 22   |      |
| 4       | 2,3,5,6-Tetrafluoro-4-(trifluoro... | 250          | C7HF7S           | 000651-84-3 | 11   |      |
| 5       | p-Chloromandelic acid               | 186          | C8H7ClO3         | 000492-86-4 | 11   |      |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060415\  
Data File : BG017462.D  
Acq On : 5 Jun 2015 5:24  
Operator : TP/IZ  
Sample : G2474-04  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C-4

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... | 2.77  | 9.8     | ng    | 48887    | 1                     | 7.62  | 99588  | 20.0 |
| 2-Pentanone, 4-hy... | 4.73  | 4.0     | ng    | 20065    | 1                     | 7.62  | 99588  | 20.0 |
| unknown7.16          | 7.16  | 92.2    | ng    | 459202   | 1                     | 7.62  | 99588  | 20.0 |
| n-Hexadecanoic acid  | 17.95 | 2.5     | ng    | 34875    | 4                     | 17.04 | 278719 | 20.0 |
| Acetic acid, chlo... | 18.80 | 3.1     | ng    | 43457    | 4                     | 17.04 | 278719 | 20.0 |
| Trichloroacetic a... | 20.95 | 4.4     | ng    | 87726    | 5                     | 21.23 | 396917 | 20.0 |
| 4,4'-Dihydroxydip... | 22.31 | 3.6     | ng    | 70592    | 5                     | 21.23 | 396917 | 20.0 |