

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121015\  
 Data File : BG020059.D  
 Acq On : 10 Dec 2015 1:07  
 Operator : UM/SJ  
 Sample : G4659-03  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 A8-3C

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-BG120215.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         | 2.990       | 21            | 26          | 41           | rBV      | 1056158        | 1466269       | 78.67%          | 13.073%       |
| 2         | 5.182       | 393           | 399         | 409          | rBV      | 77685          | 120506        | 6.47%           | 1.074%        |
| 3         | 5.658       | 473           | 480         | 492          | rBV      | 412176         | 643279        | 34.52%          | 5.735%        |
| 4         | 7.262       | 746           | 753         | 763          | rVB      | 434079         | 739737        | 39.69%          | 6.595%        |
| 5         | 7.638       | 810           | 817         | 826          | rBV      | 423021         | 722980        | 38.79%          | 6.446%        |
| 6         | 8.108       | 891           | 897         | 904          | rBV      | 65672          | 106516        | 5.72%           | 0.950%        |
| 7         | 8.437       | 945           | 953         | 960          | rVB      | 301923         | 515840        | 27.68%          | 4.599%        |
| 8         | 9.277       | 1088          | 1096        | 1105         | rVB      | 262785         | 461657        | 24.77%          | 4.116%        |
| 9         | 10.928      | 1370          | 1377        | 1384         | rVB      | 97037          | 166291        | 8.92%           | 1.483%        |
| 10        | 13.366      | 1785          | 1792        | 1800         | rVB      | 744602         | 1156346       | 62.05%          | 10.309%       |
| 11        | 14.183      | 1924          | 1931        | 1937         | rBV      | 80630          | 109643        | 5.88%           | 0.978%        |
| 12        | 14.741      | 2017          | 2026        | 2033         | rVB2     | 160898         | 256615        | 13.77%          | 2.288%        |
| 13        | 16.222      | 2268          | 2278        | 2288         | rBV      | 656200         | 979505        | 52.56%          | 8.733%        |
| 14        | 17.479      | 2486          | 2492        | 2498         | rBV2     | 217374         | 320969        | 17.22%          | 2.862%        |
| 15        | 18.349      | 2635          | 2640        | 2649         | rBV      | 43419          | 61594         | 3.30%           | 0.549%        |
| 16        | 18.748      | 2704          | 2708        | 2711         | rBV2     | 19346          | 28310         | 1.52%           | 0.252%        |
| 17        | 19.224      | 2779          | 2789        | 2794         | rBV4     | 20463          | 26397         | 1.42%           | 0.235%        |
| 18        | 19.559      | 2843          | 2846        | 2852         | rVB3     | 16977          | 19459         | 1.04%           | 0.173%        |
| 19        | 19.624      | 2852          | 2857        | 2860         | rBV3     | 35706          | 52148         | 2.80%           | 0.465%        |
| 20        | 19.665      | 2860          | 2864        | 2870         | rVB      | 145671         | 190854        | 10.24%          | 1.702%        |
| 21        | 19.829      | 2887          | 2892        | 2895         | rBV      | 140235         | 210396        | 11.29%          | 1.876%        |
| 22        | 20.082      | 2929          | 2935        | 2941         | rBV      | 1444722        | 1863710       | 100.00%         | 16.616%       |
| 23        | 20.587      | 3017          | 3021        | 3025         | rBV3     | 25703          | 26553         | 1.42%           | 0.237%        |
| 24        | 20.799      | 3053          | 3057        | 3063         | rBV2     | 37750          | 45477         | 2.44%           | 0.405%        |
| 25        | 21.374      | 3151          | 3155        | 3166         | rBV      | 57145          | 103976        | 5.58%           | 0.927%        |
| 26        | 21.750      | 3212          | 3219        | 3226         | rBV      | 263970         | 430650        | 23.11%          | 3.839%        |
| 27        | 25.023      | 3766          | 3776        | 3790         | rVB2     | 131456         | 390691        | 20.96%          | 3.483%        |

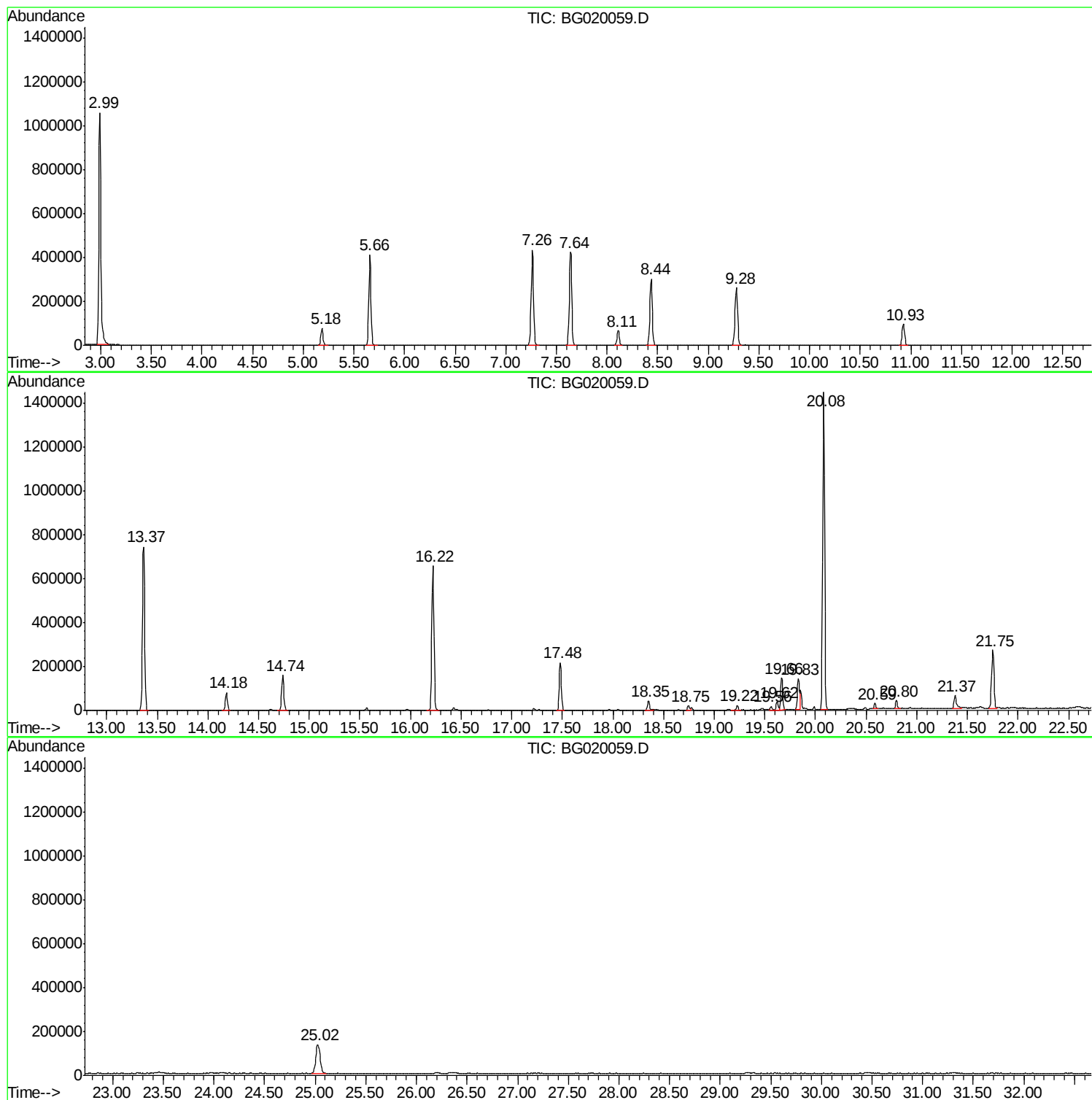
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ClientSampleId :  
A8-3C

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.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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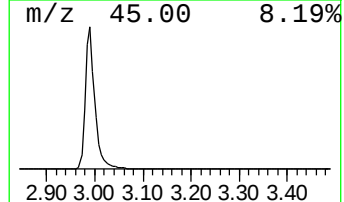
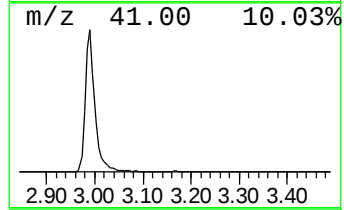
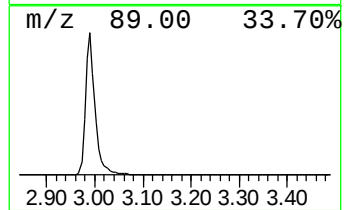
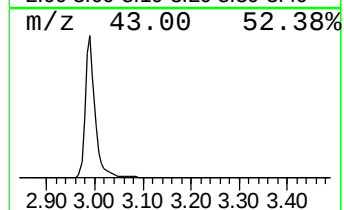
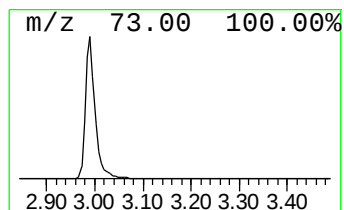
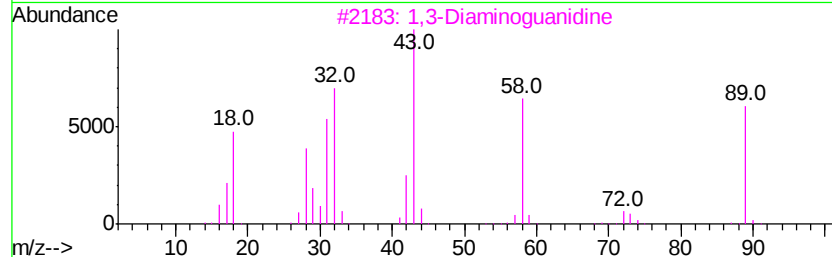
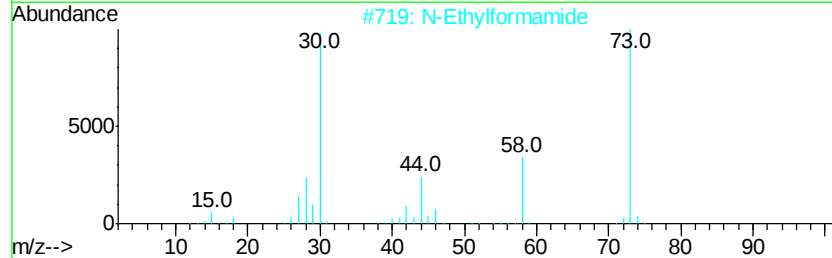
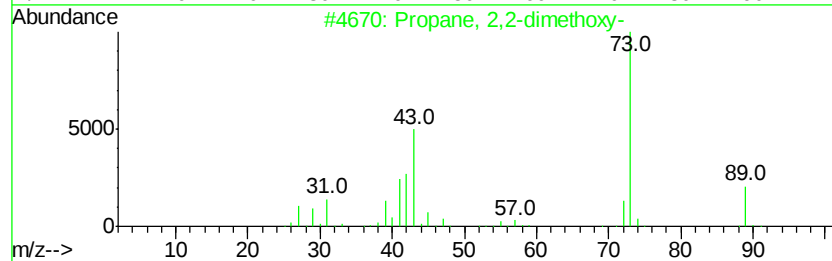
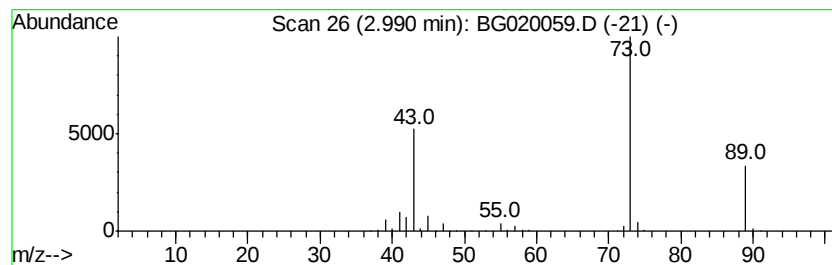
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown2.99 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 2.99 | 275.31 ng | 1466270 | 1,4-Dichlorobenzene-d4 | 8.11 |

| Hit# | of | Tentative ID                        | MW  | MolForm       | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------------|--------------|------|
| 1    | 5  | Propane, 2,2-dimethoxy-             | 104 | C5H12O2       | 000077-76-9  | 38   |
| 2    |    | N-Ethylformamide                    | 73  | C3H7NO        | 000627-45-2  | 9    |
| 3    |    | 1,3-Diaminoquanidine                | 89  | CH7N5         | 004364-78-7  | 9    |
| 4    |    | 2-Hydroxy-2-methylbutyric acid      | 118 | C5H10O3       | 003739-30-8  | 9    |
| 5    |    | 1,3-Dioxolane, 2-(3-bromo-5,5,5-... | 352 | C10H16BrCl3O2 | 1000115-31-4 | 9    |



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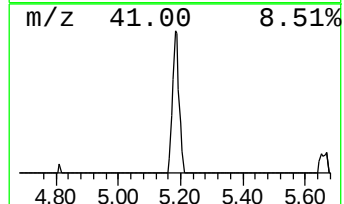
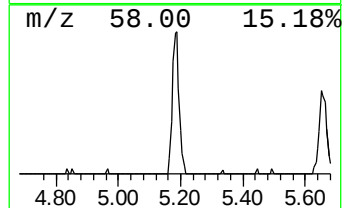
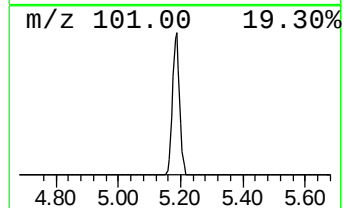
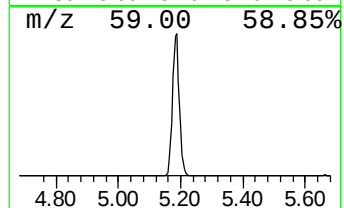
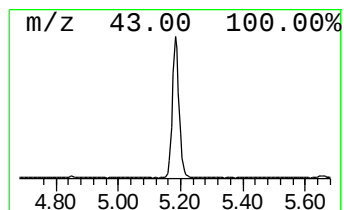
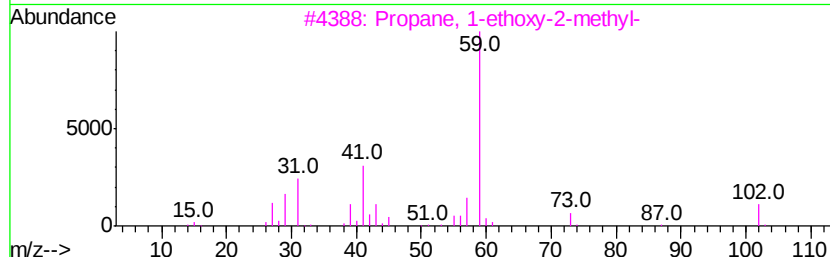
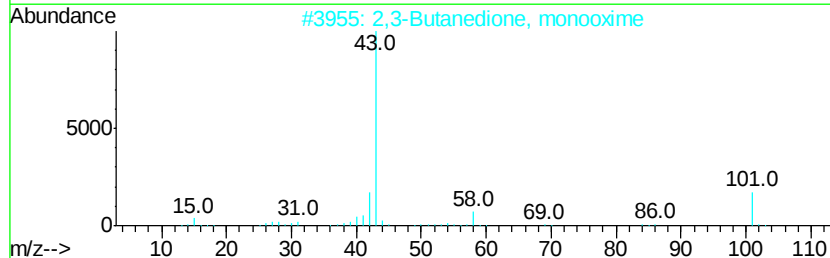
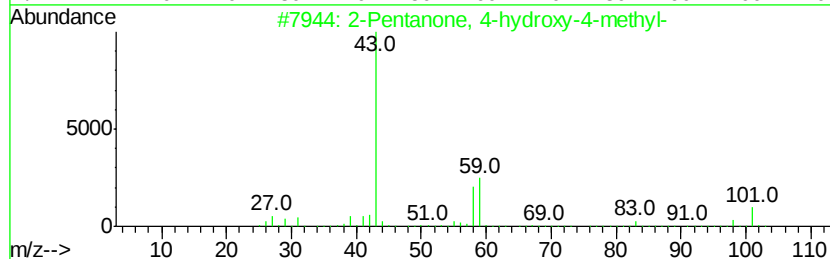
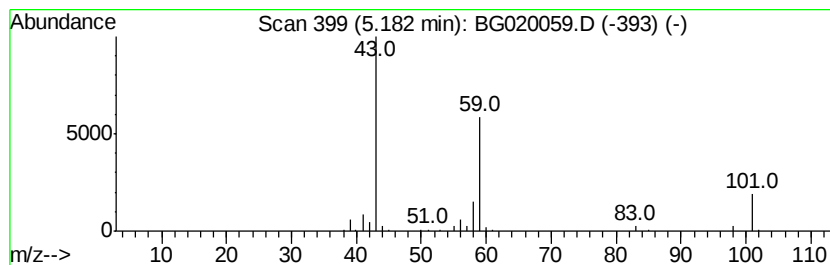
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TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.18 | 22.63 ng | 120506 | 1,4-Dichlorobenzene-d4 | 8.11 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 64   |
| 2    |    | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 25   |
| 3    |    | Propane, 1-ethoxy-2-methyl-          | 102 | C6H14O   | 000627-02-1 | 9    |
| 4    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 9    |
| 5    |    | 4-Hydroxy-3-hexanone                 | 116 | C6H12O2  | 004984-85-4 | 9    |



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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
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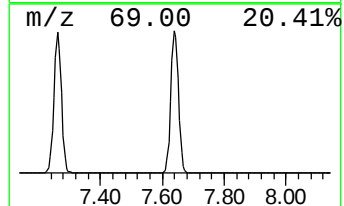
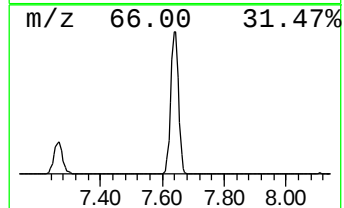
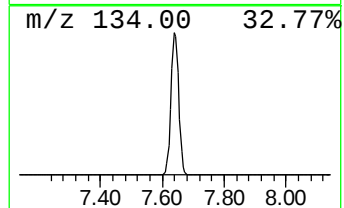
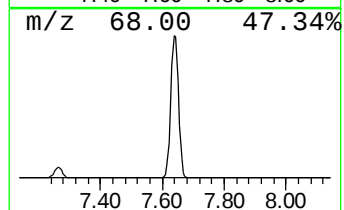
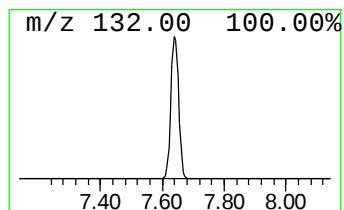
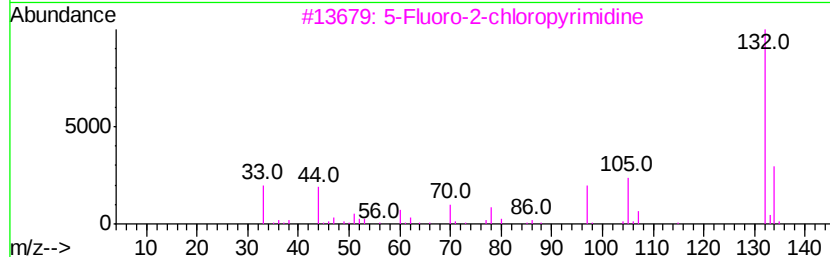
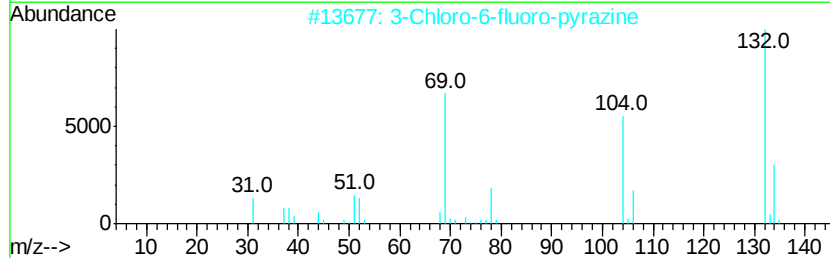
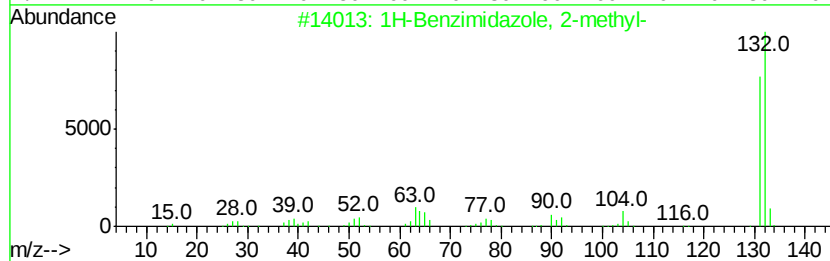
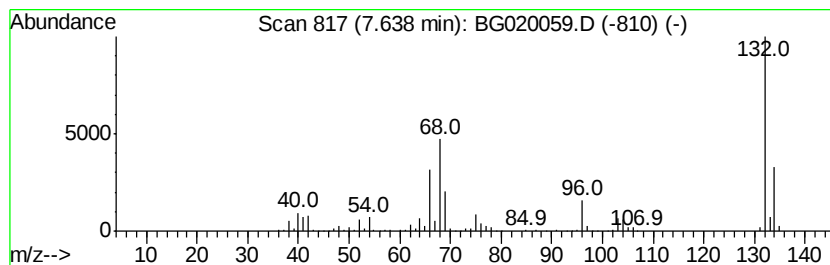
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown7.64 Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD       | R.T. |
|------|-----------|--------|------------------------|------|
| 7.64 | 135.75 ng | 722980 | 1,4-Dichlorobenzene-d4 | 8.11 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 22   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 3    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 4    |    | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2    | 1000241-93-9 | 10   |
| 5    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 10   |



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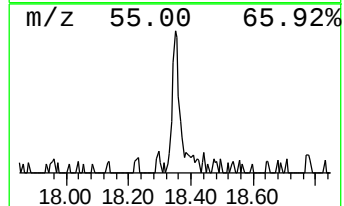
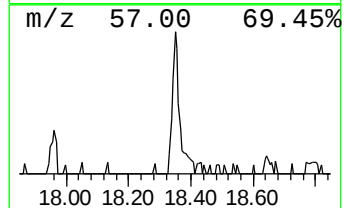
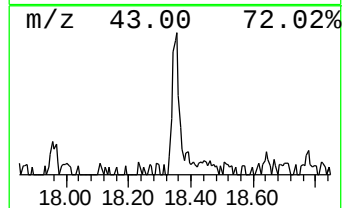
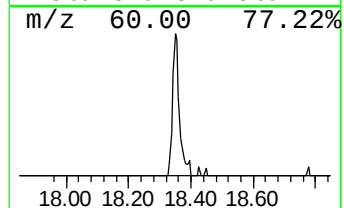
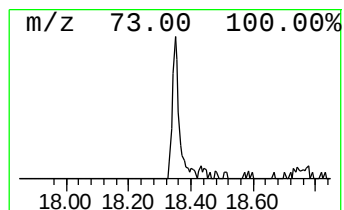
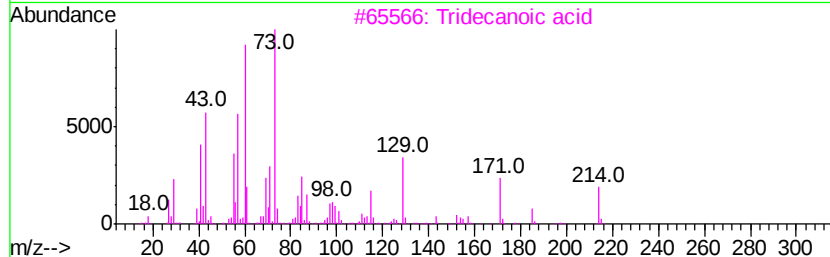
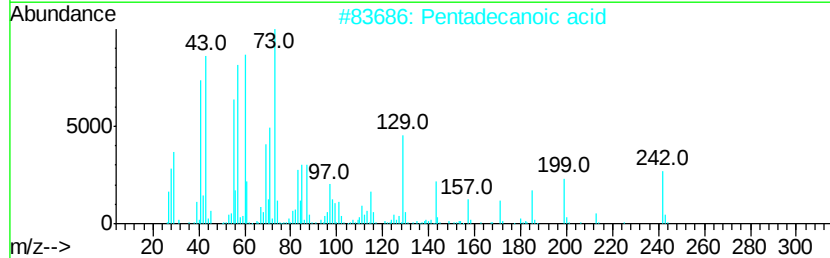
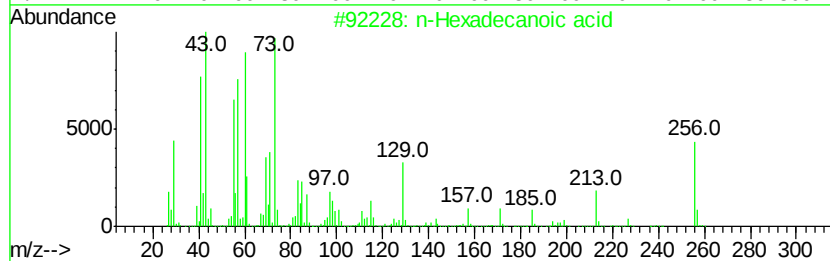
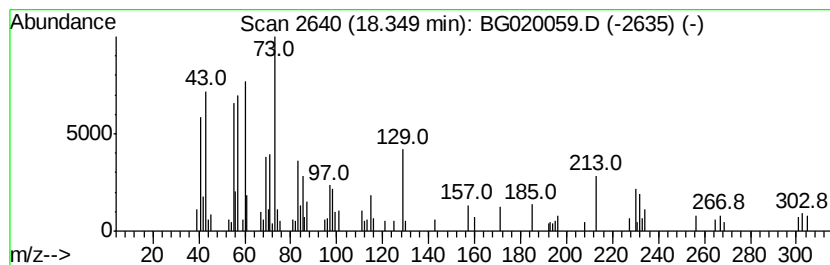
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Peak Number 5 n-Hexadecanoic acid Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 18.35 | 3.84 ng | 61594 | Phenanthrene-d10 | 17.48 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 95   |
| 2       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 70   |
| 3       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 50   |
| 4       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 50   |
| 5       |   | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 50   |



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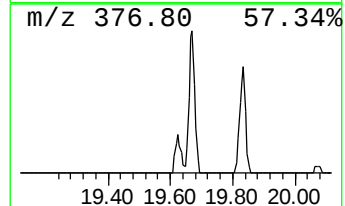
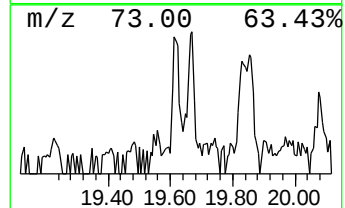
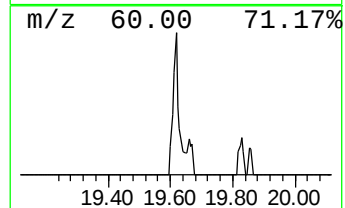
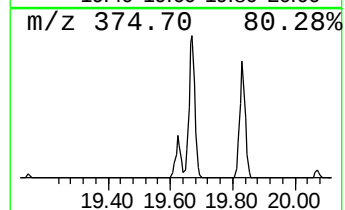
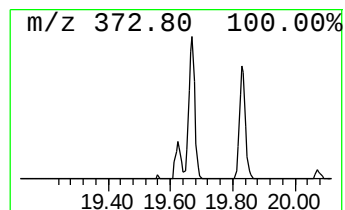
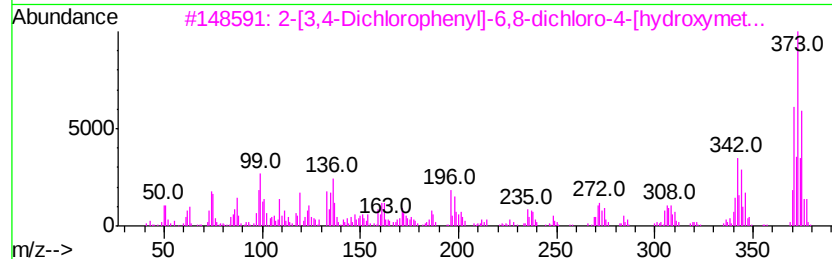
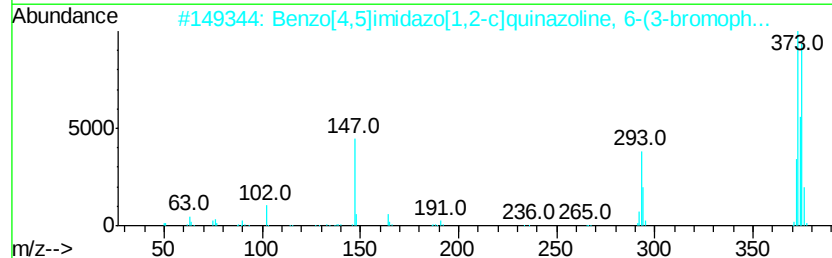
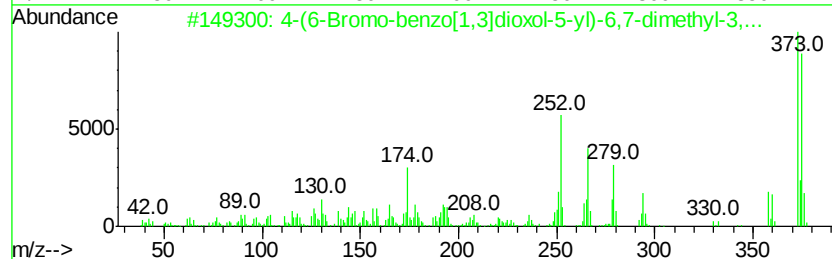
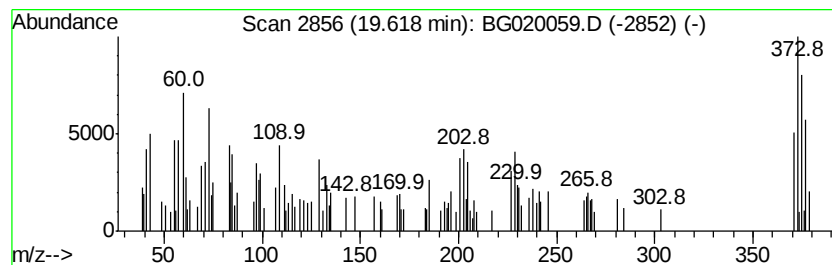
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 unknown19.62 Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 19.62 | 2.42 ng | 52148 | Chrysene-d12     | 21.75 |

| Hit# | of | Tentative ID                         | MW  | MolForm      | CAS#         | Qual |
|------|----|--------------------------------------|-----|--------------|--------------|------|
| 1    | 5  | 4-(6-Bromo-benzo[1,3]dioxol-5-yl)... | 373 | C18H16BrN03  | 1000296-27-0 | 25   |
| 2    |    | Benzo[4,5]imidazo[1,2-c]quinazol...  | 373 | C20H12BrN3   | 077123-53-6  | 23   |
| 3    |    | 2-[3,4-Dichlorophenyl]-6,8-dichl...  | 371 | C16H9Cl4N0   | 038599-01-8  | 20   |
| 4    |    | 6-(4-Bromophenyl)-benzo[4,5]imid...  | 373 | C20H12BrN3   | 313233-59-9  | 17   |
| 5    |    | 6,8-Dichloro-2-(1-adamantanyl)-4...  | 375 | C20H19Cl2N02 | 049647-91-8  | 16   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121015\  
Data File : BG020059.D  
Acq On : 10 Dec 2015 1:07  
Operator : UM/SJ  
Sample : G4659-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
A8-3C

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

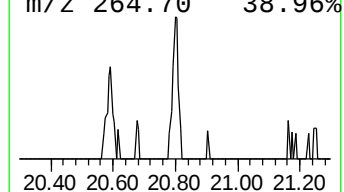
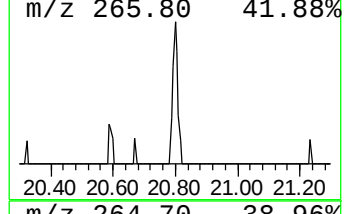
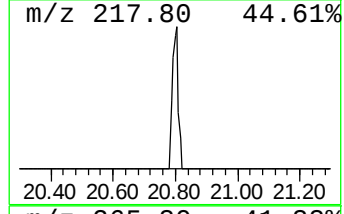
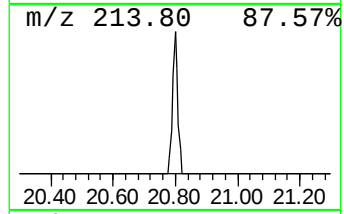
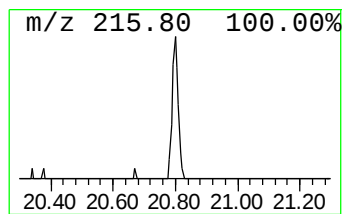
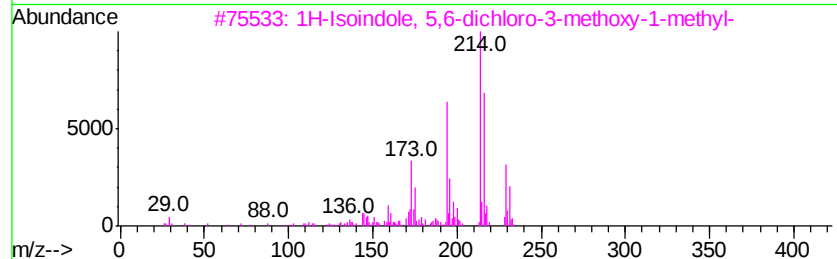
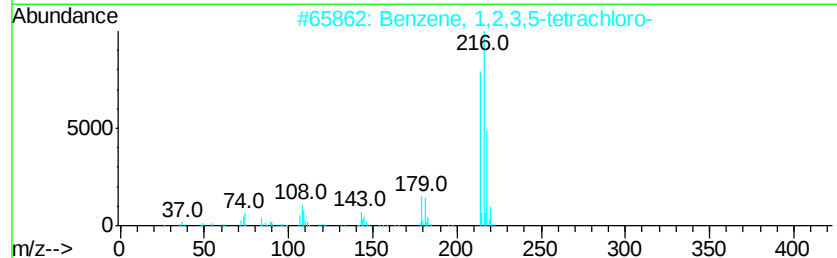
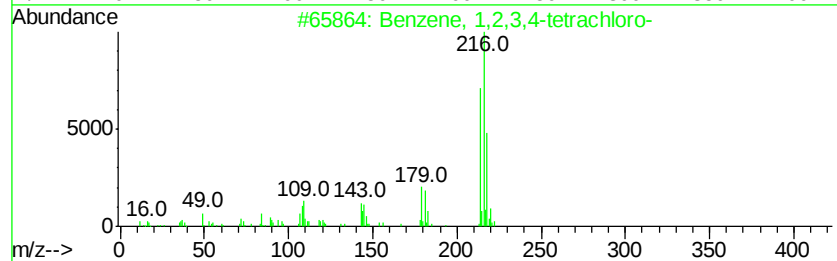
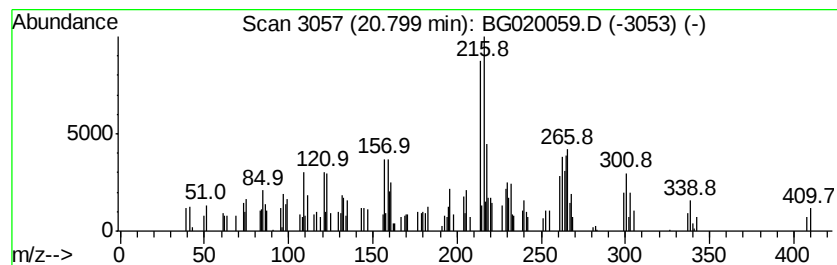
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 unknown20.80 Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 20.80 | 2.11 ng | 45477 | Chrysene-d12     | 21.75 |

| Hit# | of | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|------|----|-------------------------------------|-----|--------------|--------------|------|
| 1    | 5  | Benzene, 1,2,3,4-tetrachloro-       | 214 | C6H2Cl4      | 000634-66-2  | 46   |
| 2    |    | Benzene, 1,2,3,5-tetrachloro-       | 214 | C6H2Cl4      | 000634-90-2  | 38   |
| 3    |    | 1H-Isoindole, 5,6-dichloro-3-met... | 229 | C10H9Cl2NO   | 100813-57-8  | 25   |
| 4    |    | 2,4-Dichloro-6-n-butoxy-1,5-naph... | 270 | C12H12Cl2N2O | 1000213-83-1 | 22   |
| 5    |    | Hydrazidiamantane                   | 216 | C14H20N2     | 1000138-39-6 | 11   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121015\  
Data File : BG020059.D  
Acq On : 10 Dec 2015 1:07  
Operator : UM/SJ  
Sample : G4659-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
A8-3C

Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

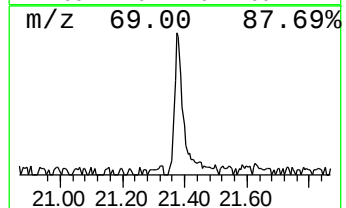
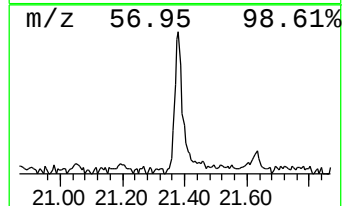
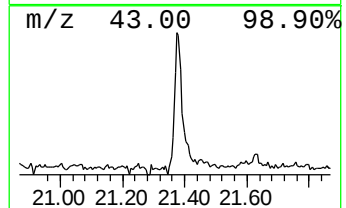
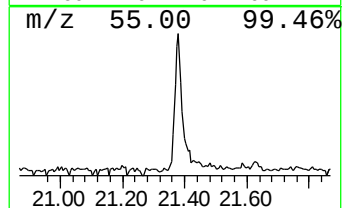
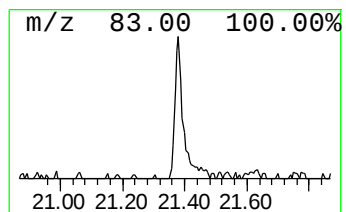
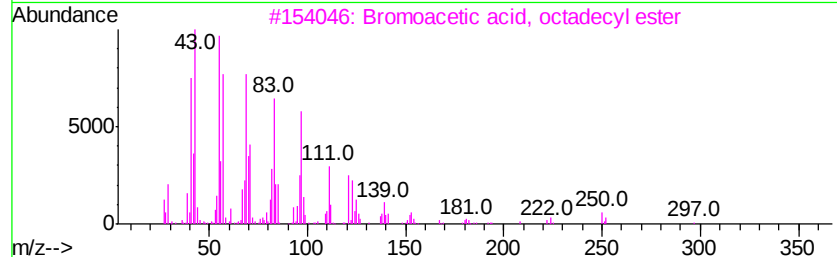
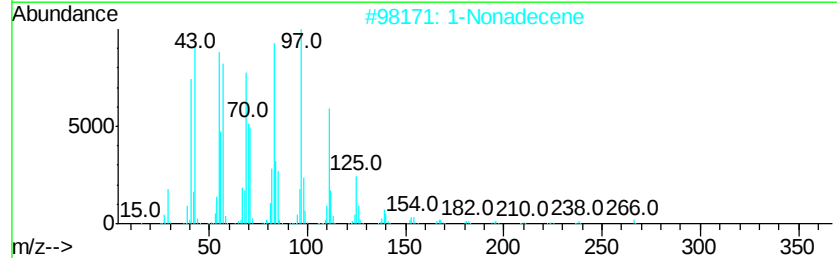
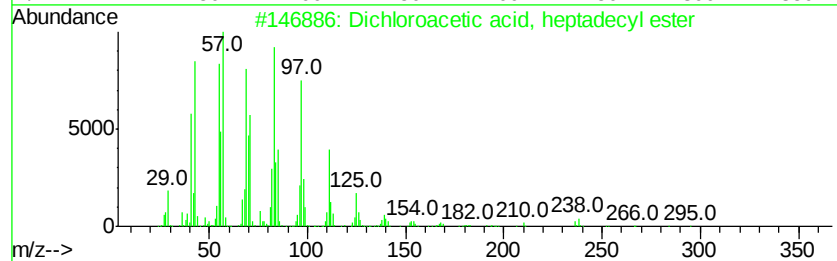
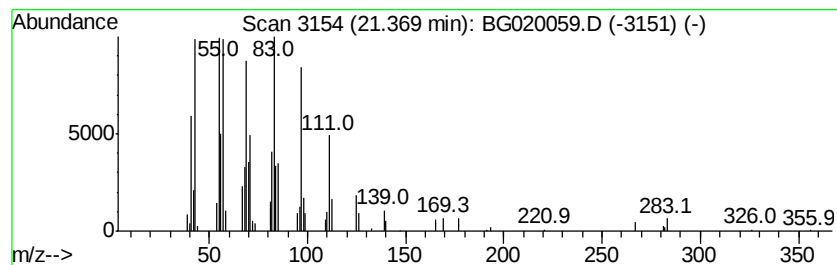
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Dichloroacetic acid, heptad... Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 21.37 | 4.83 ng | 103976 | Chrysene-d12     | 21.75 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 93   |
| 2    |    |   | 1-Nonadecene                        | 266 | C19H38      | 018435-45-5  | 91   |
| 3    |    |   | Bromoacetic acid, octadecyl ester   | 390 | C20H39BrO2  | 018992-03-5  | 91   |
| 4    |    |   | 3-Eicosene, (E)-                    | 280 | C20H40      | 074685-33-9  | 91   |
| 5    |    |   | Trifluoroacetic acid, n-heptadec... | 324 | C17H31F3O2  | 1000216-79-2 | 90   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG121015\  
Data File : BG020059.D  
Acq On : 10 Dec 2015 1:07  
Operator : UM/SJ  
Sample : G4659-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
A8-3C

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG120215.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 |
| unknown2.99          | 2.99  | 275.3   | ng    | 1466270  | 1                     | 8.11  | 106516 | 20.0 |
| 2-Pentanone, 4-hy... | 5.18  | 22.6    | ng    | 120506   | 1                     | 8.11  | 106516 | 20.0 |
| unknown7.64          | 7.64  | 135.8   | ng    | 722980   | 1                     | 8.11  | 106516 | 20.0 |
| n-Hexadecanoic acid  | 18.35 | 3.8     | ng    | 61594    | 4                     | 17.48 | 320969 | 20.0 |
| unknown19.62         | 19.62 | 2.4     | ng    | 52148    | 5                     | 21.75 | 430650 | 20.0 |
| unknown20.80         | 20.80 | 2.1     | ng    | 45477    | 5                     | 21.75 | 430650 | 20.0 |
| Dichloroacetic ac... | 21.37 | 4.8     | ng    | 103976   | 5                     | 21.75 | 430650 | 20.0 |