

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_G\DATA\BG011218\  
 Data File : BG032020.D  
 Acq On : 13 Jan 2018 2:18  
 Operator : SJ/JU  
 Sample : J1106-02  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CLEAN-SAND-14

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-BG011218.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         | 3.414       | 15            | 21          | 30           | rBV2     | 31215          | 69666         | 1.81%           | 0.374%        |
| 2         | 3.502       | 32            | 36          | 45           | rVB      | 27775          | 42200         | 1.10%           | 0.227%        |
| 3         | 5.688       | 402           | 408         | 417          | rVB      | 30588          | 54854         | 1.43%           | 0.295%        |
| 4         | 6.199       | 487           | 495         | 504          | rBV      | 606275         | 1044552       | 27.20%          | 5.608%        |
| 5         | 7.880       | 772           | 781         | 795          | rBV      | 591617         | 1148960       | 29.92%          | 6.169%        |
| 6         | 8.285       | 841           | 850         | 865          | rBV      | 655149         | 1197520       | 31.18%          | 6.430%        |
| 7         | 8.773       | 926           | 933         | 942          | rVB      | 163454         | 296069        | 7.71%           | 1.590%        |
| 8         | 9.108       | 982           | 990         | 1004         | rBB      | 539962         | 989149        | 25.75%          | 5.311%        |
| 9         | 9.965       | 1127          | 1136        | 1151         | rBV      | 345804         | 677489        | 17.64%          | 3.638%        |
| 10        | 11.658      | 1415          | 1424        | 1433         | rBV      | 227114         | 435146        | 11.33%          | 2.336%        |
| 11        | 14.031      | 1820          | 1828        | 1841         | rVB      | 1399183        | 2258082       | 58.79%          | 12.124%       |
| 12        | 14.824      | 1957          | 1963        | 1969         | rBV      | 136613         | 211342        | 5.50%           | 1.135%        |
| 13        | 15.406      | 2055          | 2062        | 2073         | rVB2     | 402050         | 696582        | 18.14%          | 3.740%        |
| 14        | 16.188      | 2183          | 2195        | 2199         | rBV2     | 33606          | 53033         | 1.38%           | 0.285%        |
| 15        | 16.875      | 2304          | 2312        | 2327         | rBV      | 1186048        | 1878928       | 48.92%          | 10.088%       |
| 16        | 17.039      | 2336          | 2340        | 2350         | rVB      | 26386          | 46492         | 1.21%           | 0.250%        |
| 17        | 18.132      | 2520          | 2526        | 2536         | rBV2     | 583434         | 943128        | 24.56%          | 5.064%        |
| 18        | 18.949      | 2657          | 2665        | 2677         | rBV2     | 87803          | 139542        | 3.63%           | 0.749%        |
| 19        | 20.670      | 2952          | 2958        | 2968         | rBV      | 2838463        | 3840711       | 100.00%         | 20.621%       |
| 20        | 22.010      | 3180          | 3186        | 3198         | rBV      | 173188         | 289929        | 7.55%           | 1.557%        |
| 21        | 22.474      | 3257          | 3265        | 3276         | rBV      | 613917         | 1136626       | 29.59%          | 6.103%        |
| 22        | 26.199      | 3886          | 3899        | 3914         | rBV2     | 353049         | 1174948       | 30.59%          | 6.308%        |

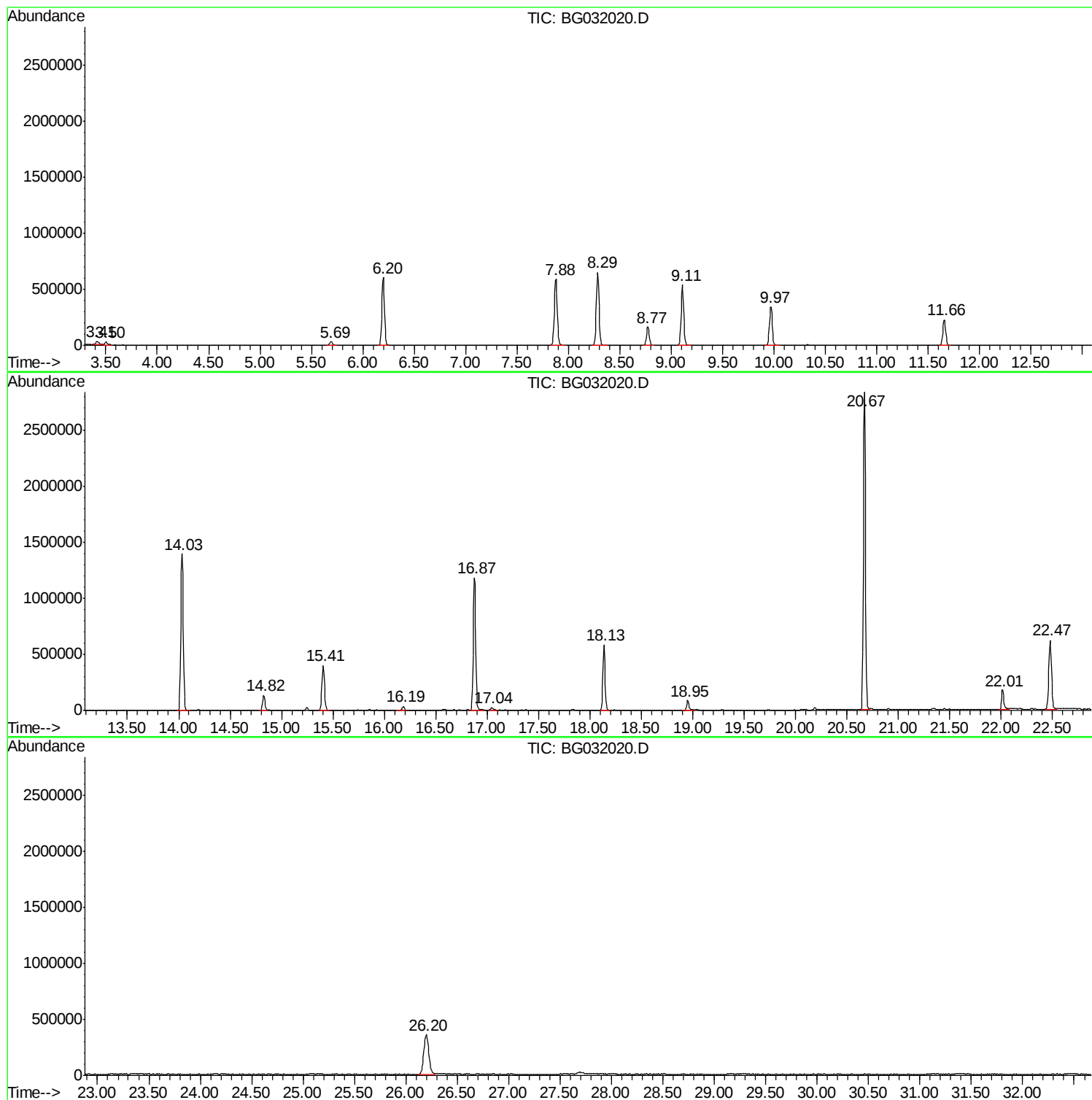
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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
CLEAN-SAND-14

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG011218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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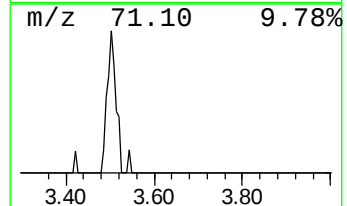
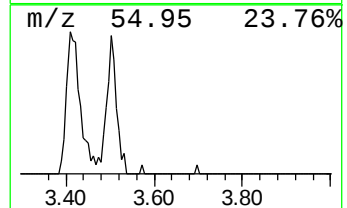
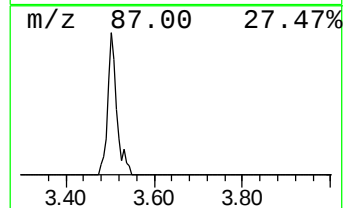
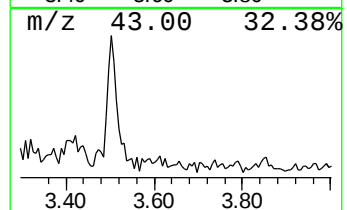
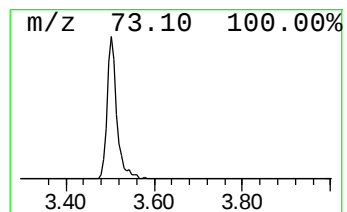
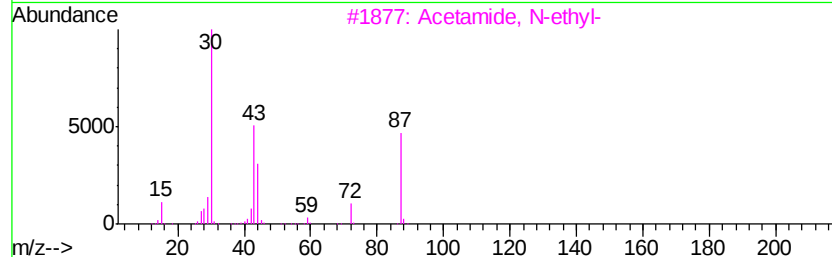
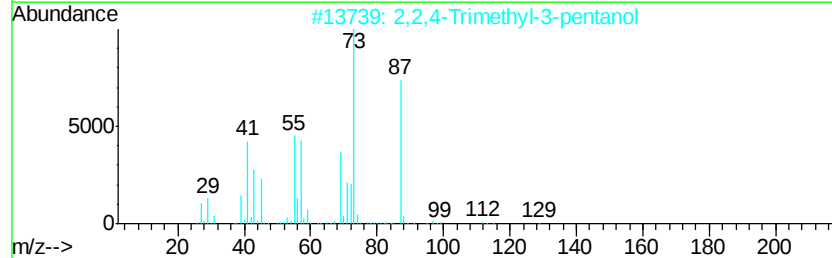
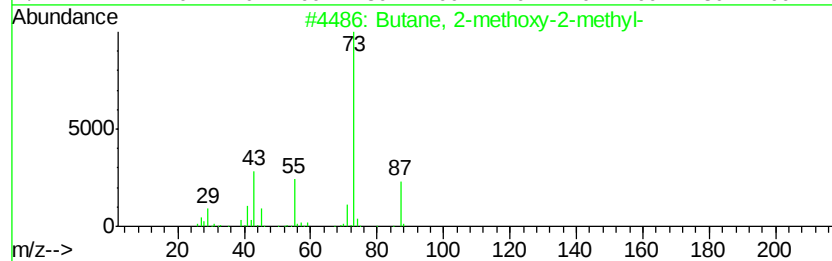
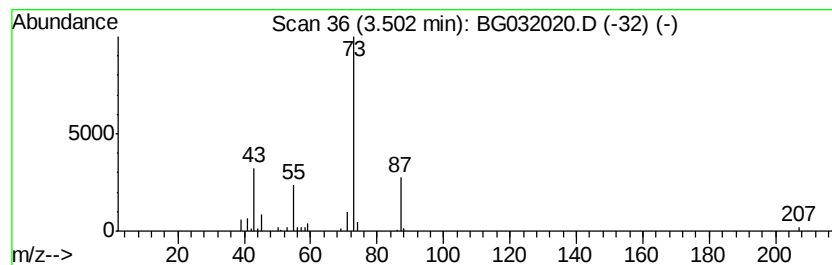
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 7

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 3.50 | 2.85 ng | 42200 | 1,4-Dichlorobenzene-d4 | 8.77 |

| 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 | 43   |
| 3    |    | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 9    |
| 4    |    | Acetamide, N-methyl-        | 73  | C3H7NO  | 000079-16-3 | 9    |
| 5    |    | 3-Hexanol, 2,4-dimethyl-    | 130 | C8H18O  | 013432-25-2 | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG011218.M  
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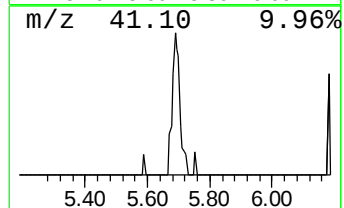
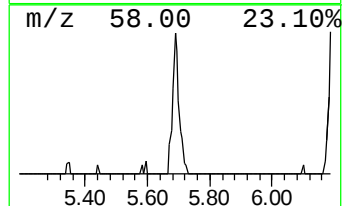
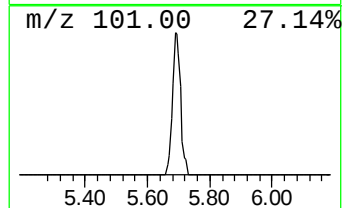
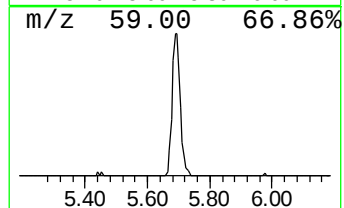
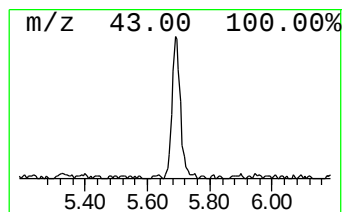
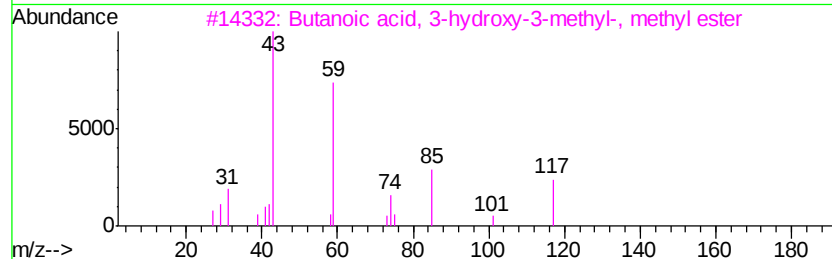
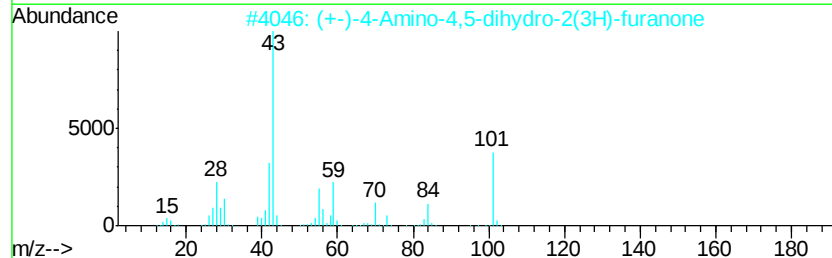
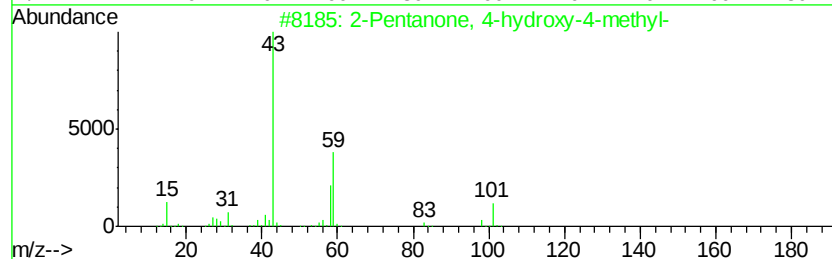
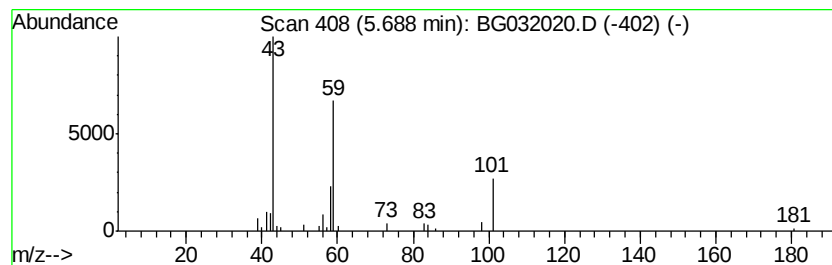
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.69 | 3.71 ng | 54854 | 1,4-Dichlorobenzene-d4 | 8.77 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2 | 000123-42-2 | 40   |
| 2    |    | (+)-4-Amino-4,5-dihydro-2(3H)-f...   | 101 | C4H7NO2 | 016504-58-8 | 32   |
| 3    |    | Butanoic acid, 3-hydroxy-3-methyl... | 132 | C6H12O3 | 006149-45-7 | 28   |
| 4    |    | 4,5-Dimethyl-3-heptanol              | 144 | C9H20O  | 019549-76-9 | 25   |
| 5    |    | Acetone                              | 58  | C3H6O   | 000067-64-1 | 10   |



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Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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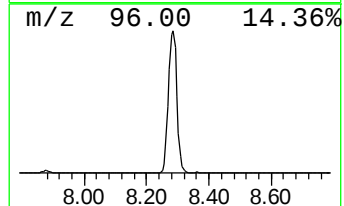
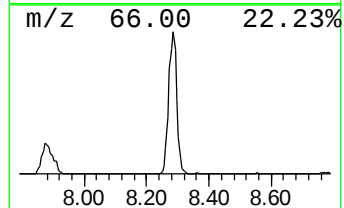
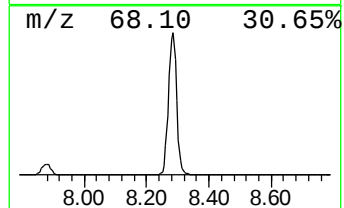
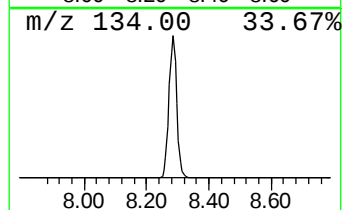
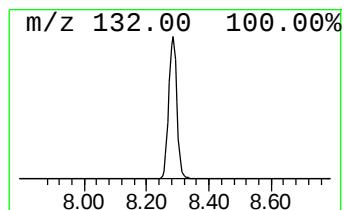
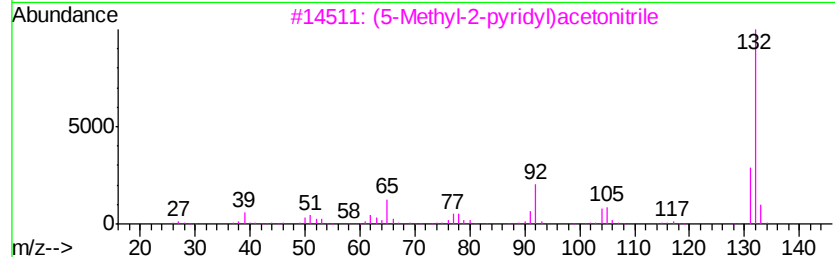
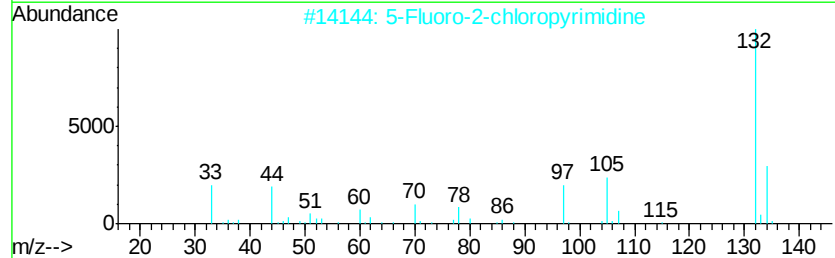
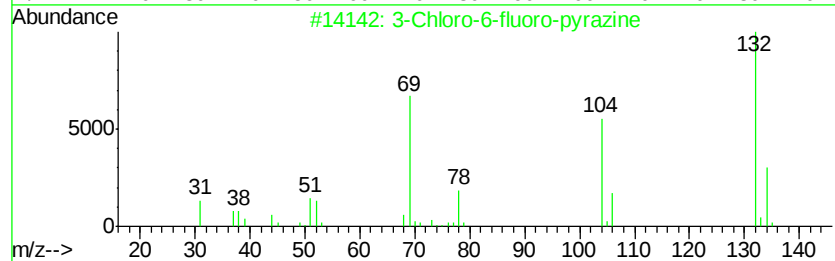
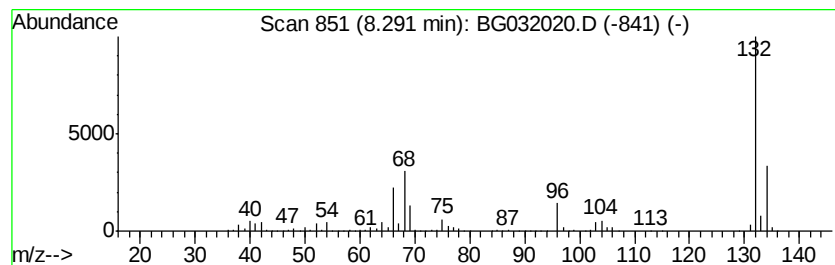
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TIC Library : C:\Database\NIST11.L  
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Peak Number 4 unknown8.29 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 8.29 | 80.89 ng | 1197520 | 1,4-Dichlorobenzene-d4 | 8.77 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 38   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 25   |
| 3    |    | (5-Methyl-2-pyridyl)acetonitrile    | 132 | C8H8N2    | 1000241-93-9 | 12   |
| 4    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 12   |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG011218.M  
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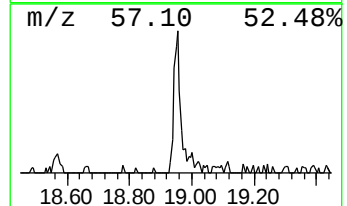
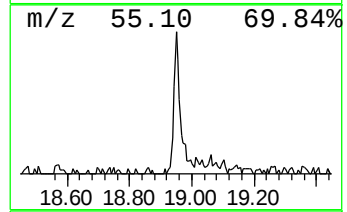
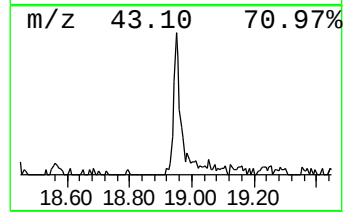
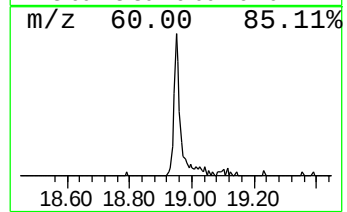
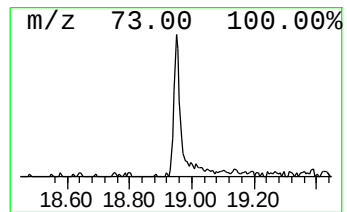
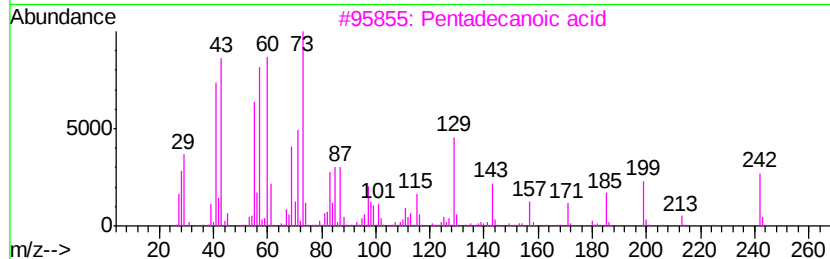
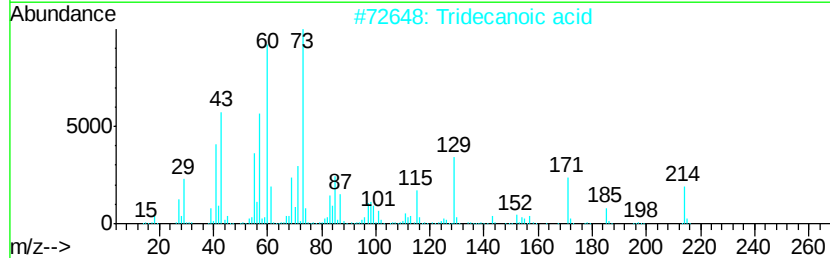
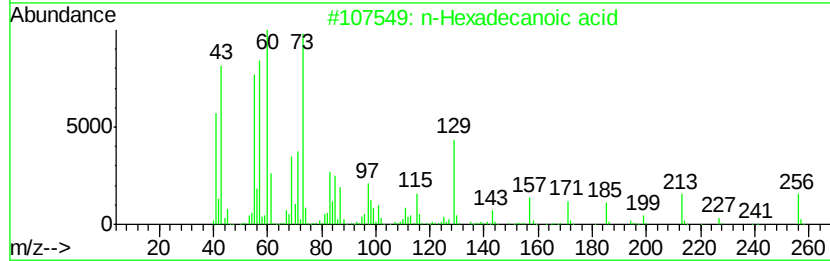
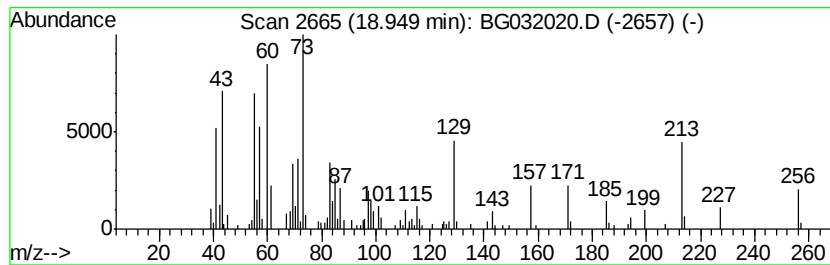
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 n-Hexadecanoic acid Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.95 | 2.96 ng | 139542 | Phenanthrene-d10 | 18.13 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96   |
| 2    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 93   |
| 3    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 58   |
| 4    |    | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 55   |
| 5    |    | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 53   |



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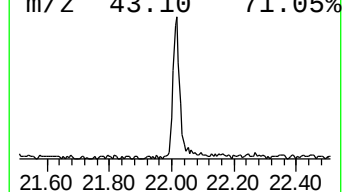
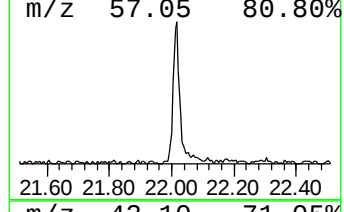
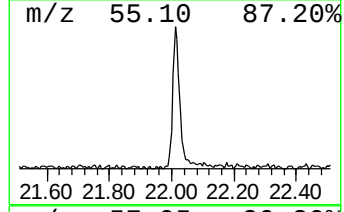
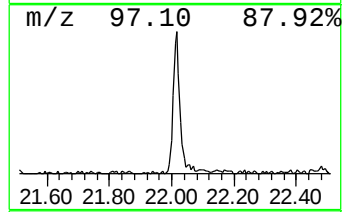
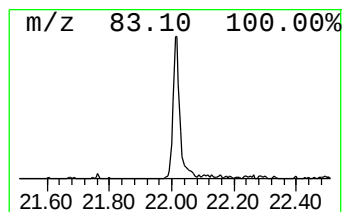
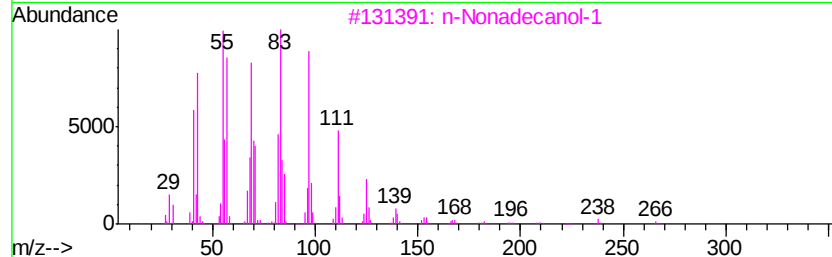
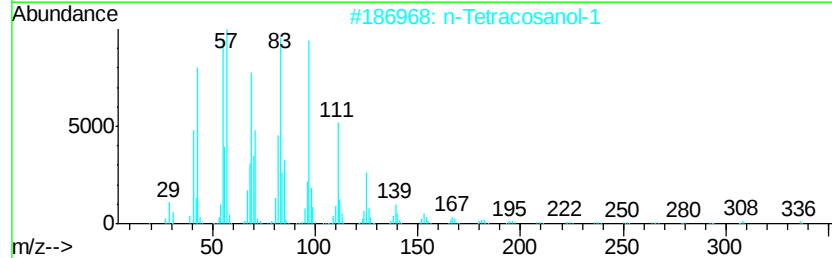
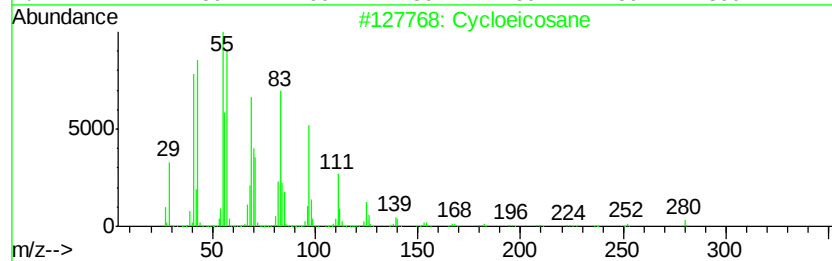
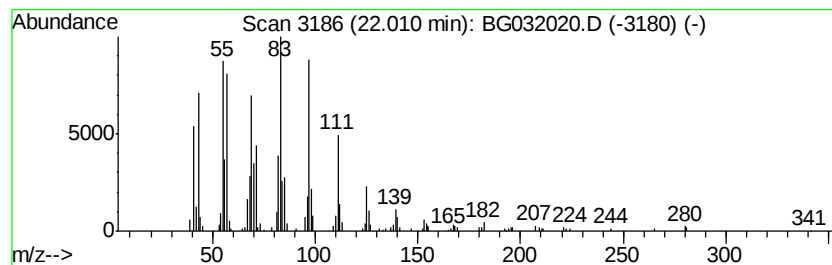
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Cycloeicosane Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 22.01 | 5.10 ng | 289929 | Chrysene-d12     | 22.47 |

| Hit# | of | 5 | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------|-----|---------|-------------|------|
| 1    |    |   | Cycloeicosane    | 280 | C20H40  | 000296-56-0 | 99   |
| 2    |    |   | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 95   |
| 3    |    |   | n-Nonadecanol-1  | 284 | C19H40O | 001454-84-8 | 95   |
| 4    |    |   | Behenic alcohol  | 326 | C22H46O | 000661-19-8 | 95   |
| 5    |    |   | 1-Heptacosanol   | 396 | C27H56O | 002004-39-9 | 95   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_G\DATA\BG011218\  
Data File : BG032020.D  
Acq On : 13 Jan 2018 2:18  
Operator : SJ/JU  
Sample : J1106-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
CLEAN-SAND-14

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG011218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butane, 2-methoxy... | 3.50  | 2.9     | ng    | 42200    | 1                     | 8.77  | 296069  | 20.0 |
| 2-Pentanone, 4-hy... | 5.69  | 3.7     | ng    | 54854    | 1                     | 8.77  | 296069  | 20.0 |
| unknown8.29          | 8.29  | 80.9    | ng    | 1197520  | 1                     | 8.77  | 296069  | 20.0 |
| n-Hexadecanoic acid  | 18.95 | 3.0     | ng    | 139542   | 4                     | 18.13 | 943128  | 20.0 |
| Cycloeicosane        | 22.01 | 5.1     | ng    | 289929   | 5                     | 22.47 | 1136630 | 20.0 |