

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060817\  
 Data File : BF095794.D  
 Acq On : 8 Jun 2017 21:02  
 Operator : SJ/MA  
 Sample : I3535-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOILSAMPLE-1

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\_F\METHODS\8270-BF060517.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         | 4.598       | 507           | 512         | 541          | rBV      | 68722          | 229619        | 8.80%           | 1.091%        |
| 2         | 5.269       | 621           | 626         | 653          | rBV      | 1323318        | 2244914       | 86.08%          | 10.665%       |
| 3         | 6.934       | 903           | 909         | 919          | rBV      | 1297528        | 2245146       | 86.09%          | 10.666%       |
| 4         | 7.028       | 919           | 925         | 944          | rVB      | 1724721        | 2482885       | 95.20%          | 11.796%       |
| 5         | 7.369       | 978           | 983         | 993          | rBV      | 334136         | 444221        | 17.03%          | 2.110%        |
| 6         | 7.604       | 1018          | 1023        | 1038         | rBV      | 1275779        | 1830083       | 70.17%          | 8.694%        |
| 7         | 8.286       | 1133          | 1139        | 1164         | rBV      | 891006         | 1415704       | 54.28%          | 6.726%        |
| 8         | 9.398       | 1324          | 1328        | 1342         | rBV      | 461482         | 611386        | 23.44%          | 2.905%        |
| 9         | 11.186      | 1624          | 1632        | 1635         | rBV      | 1863760        | 2608037       | 100.00%         | 12.390%       |
| 10        | 11.410      | 1665          | 1670        | 1677         | rVB5     | 16874          | 26164         | 1.00%           | 0.124%        |
| 11        | 11.874      | 1743          | 1749        | 1755         | rBV      | 498391         | 597020        | 22.89%          | 2.836%        |
| 12        | 12.221      | 1802          | 1808        | 1813         | rBV2     | 513147         | 644371        | 24.71%          | 3.061%        |
| 13        | 12.269      | 1813          | 1816        | 1822         | rVB3     | 35059          | 44045         | 1.69%           | 0.209%        |
| 14        | 13.080      | 1948          | 1954        | 1959         | rBV      | 42922          | 53710         | 2.06%           | 0.255%        |
| 15        | 13.439      | 2004          | 2015        | 2019         | rBV3     | 26349          | 51679         | 1.98%           | 0.246%        |
| 16        | 13.515      | 2023          | 2028        | 2036         | rBV      | 923757         | 1334850       | 51.18%          | 6.342%        |
| 17        | 13.851      | 2081          | 2085        | 2087         | rBV2     | 42969          | 61289         | 2.35%           | 0.291%        |
| 18        | 13.868      | 2087          | 2088        | 2094         | rVB      | 45357          | 45833         | 1.76%           | 0.218%        |
| 19        | 14.580      | 2205          | 2209        | 2211         | rBV      | 30216          | 37122         | 1.42%           | 0.176%        |
| 20        | 14.615      | 2211          | 2215        | 2220         | rVV      | 462981         | 592691        | 22.73%          | 2.816%        |
| 21        | 15.633      | 2383          | 2388        | 2398         | rVB2     | 76666          | 106134        | 4.07%           | 0.504%        |
| 22        | 16.433      | 2518          | 2524        | 2530         | rVB      | 69721          | 91592         | 3.51%           | 0.435%        |
| 23        | 16.739      | 2572          | 2576        | 2582         | rBV      | 98237          | 123659        | 4.74%           | 0.587%        |
| 24        | 16.992      | 2613          | 2619        | 2623         | rBV2     | 1637844        | 1994477       | 76.47%          | 9.475%        |
| 25        | 18.245      | 2828          | 2832        | 2841         | rBV2     | 53042          | 84718         | 3.25%           | 0.402%        |
| 26        | 18.327      | 2841          | 2846        | 2857         | rBV      | 409033         | 540659        | 20.73%          | 2.569%        |
| 27        | 19.480      | 3038          | 3042        | 3046         | rBV      | 25911          | 29847         | 1.14%           | 0.142%        |
| 28        | 19.609      | 3060          | 3064        | 3067         | rBV      | 26677          | 35322         | 1.35%           | 0.168%        |
| 29        | 19.997      | 3126          | 3130        | 3140         | rVV      | 319660         | 409407        | 15.70%          | 1.945%        |
| 30        | 20.821      | 3266          | 3270        | 3279         | rVB8     | 13019          | 32362         | 1.24%           | 0.154%        |

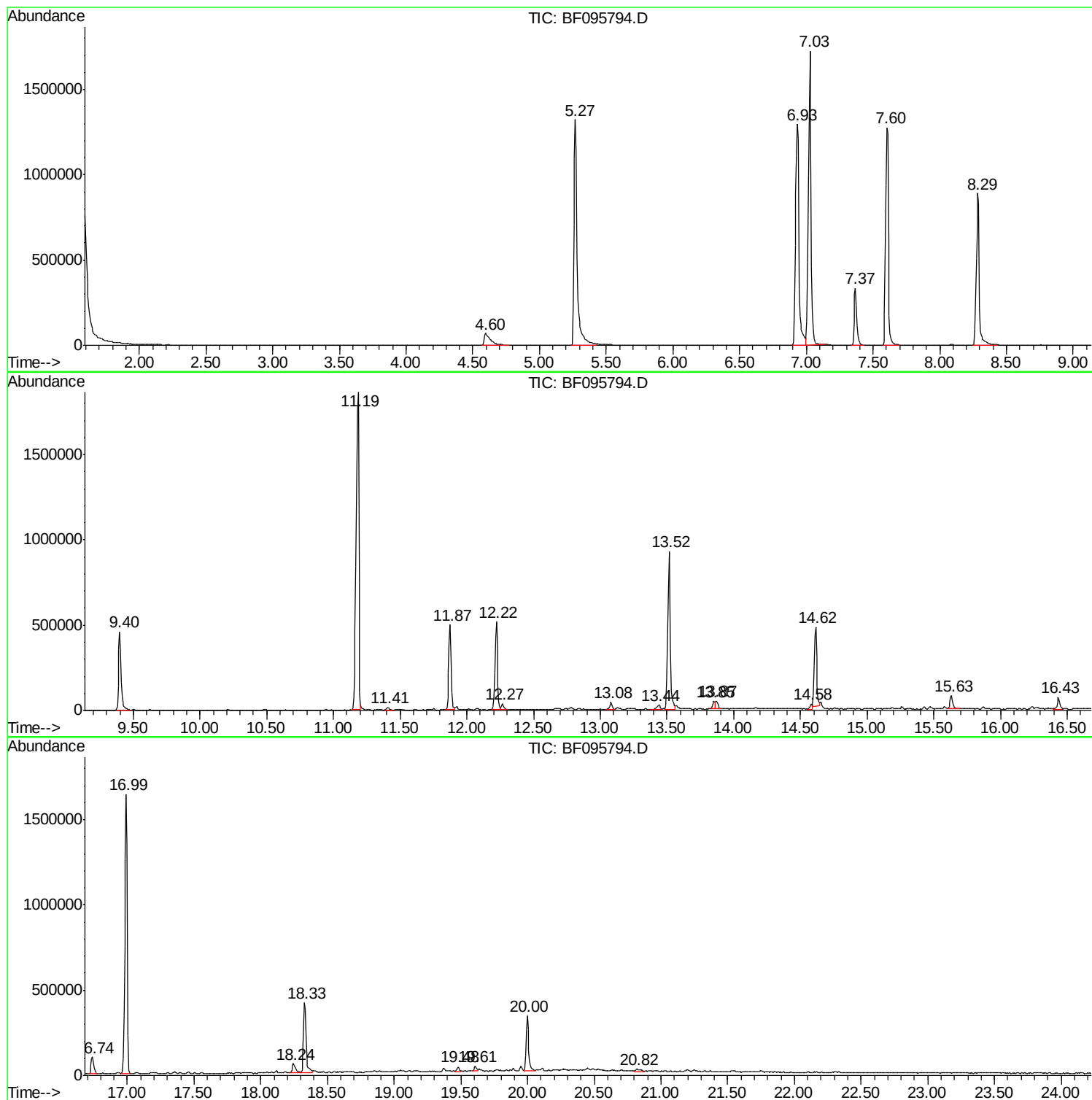
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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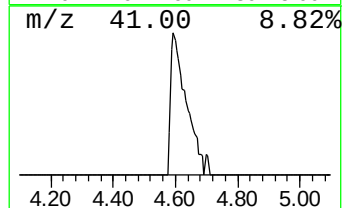
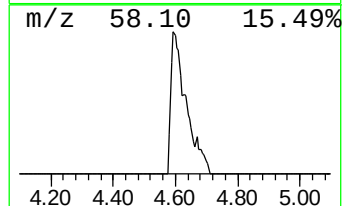
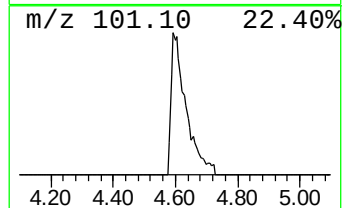
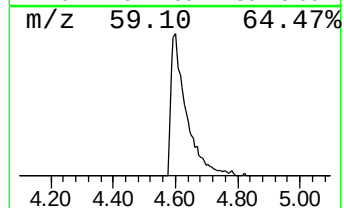
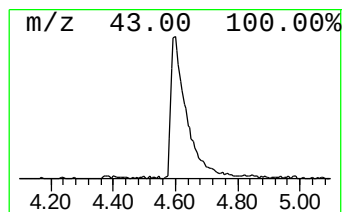
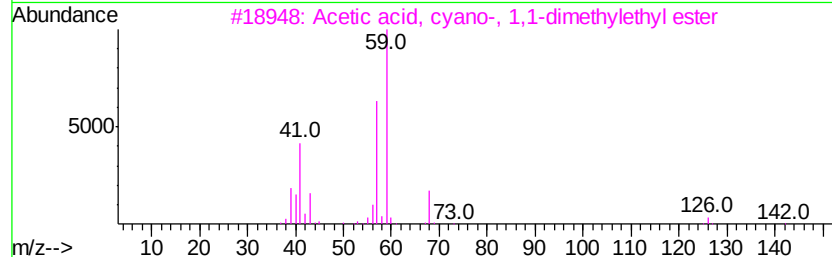
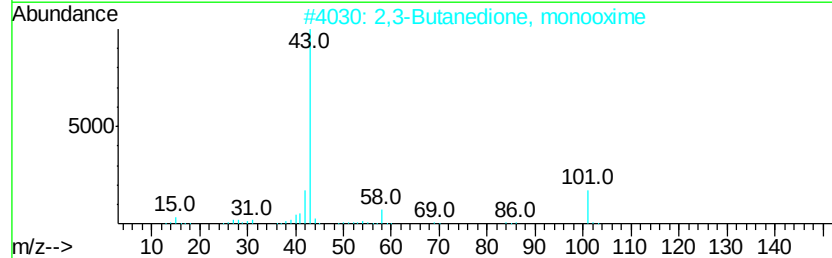
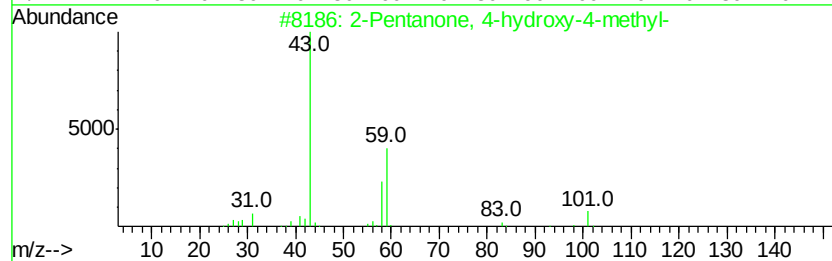
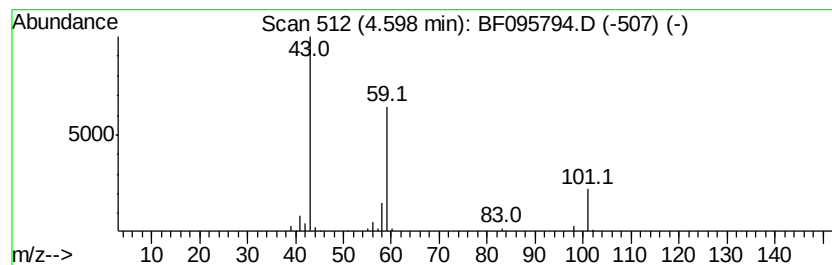
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.60 | 10.34 ng | 229619 | 1,4-Dichlorobenzene-d4 | 7.37 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    |   | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 35   |
| 3    |    |   | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 4    |    |   | (+)-4-Amino-4,5-dihydro-2(3H)-f...   | 101 | C4H7NO2  | 016504-58-8 | 9    |
| 5    |    |   | Butane, 1-ethoxy-                    | 102 | C6H14O   | 000628-81-9 | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

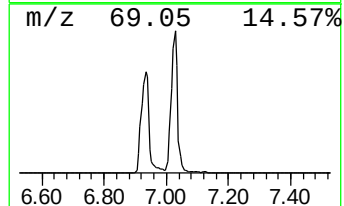
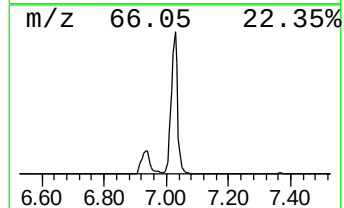
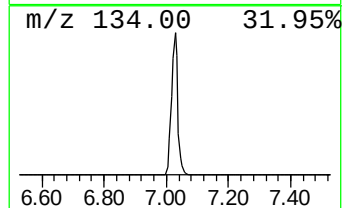
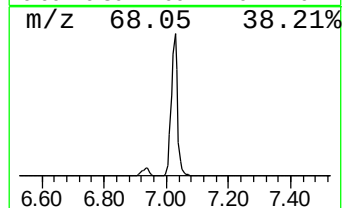
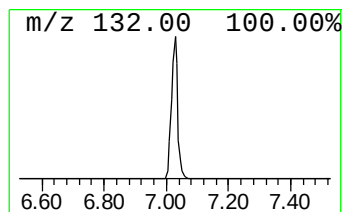
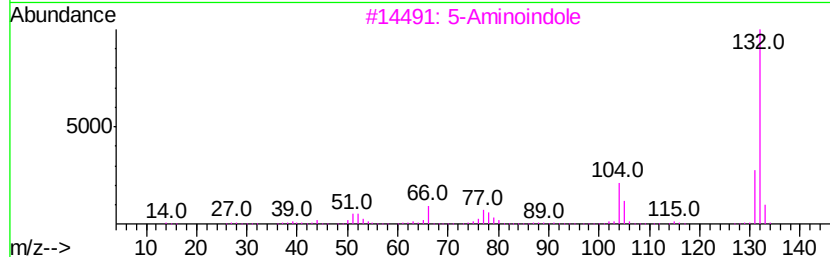
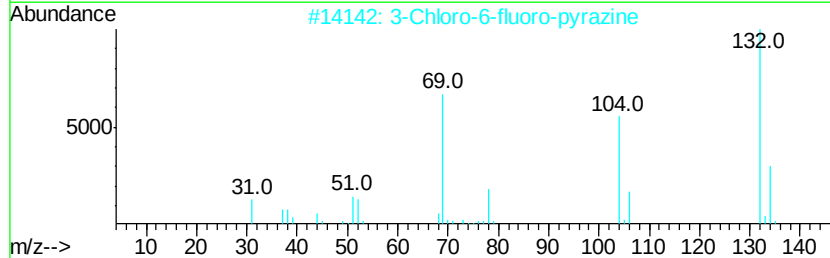
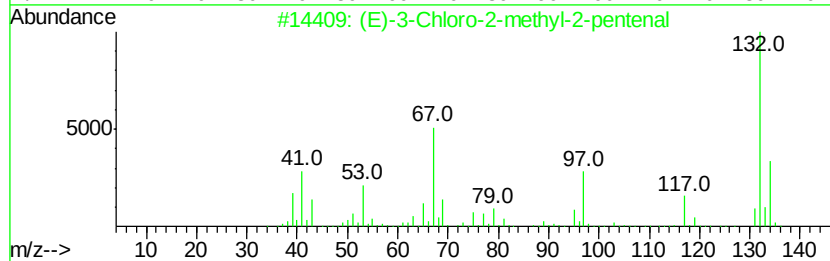
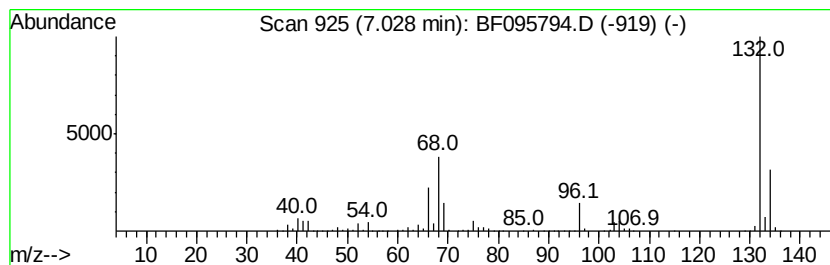
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown7.03 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 7.03 | 111.79 ng | 2482890 | 1,4-Dichlorobenzene-d4 | 7.37 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



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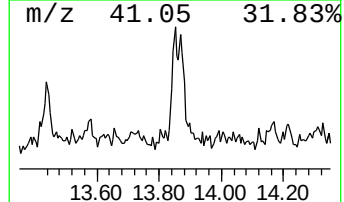
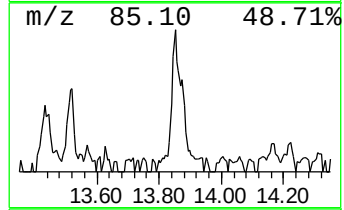
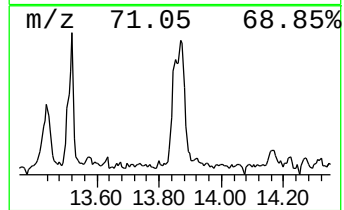
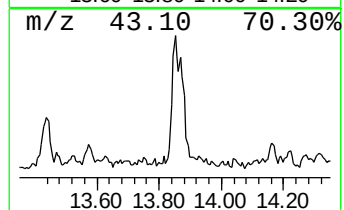
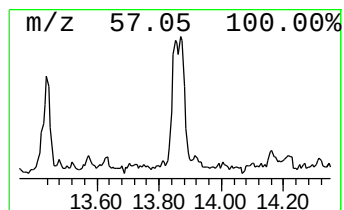
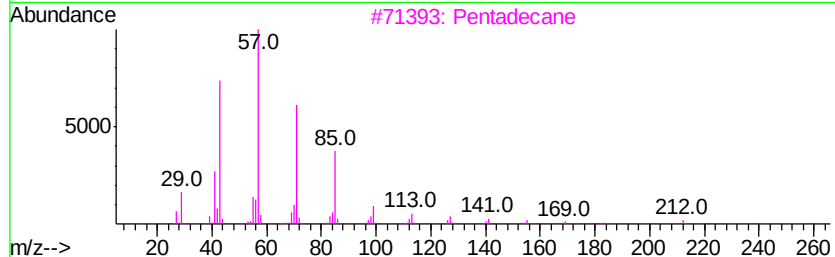
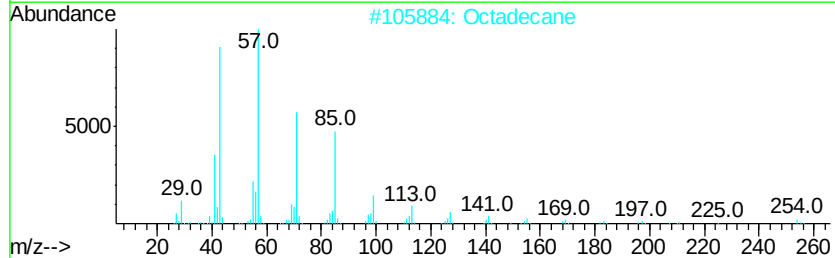
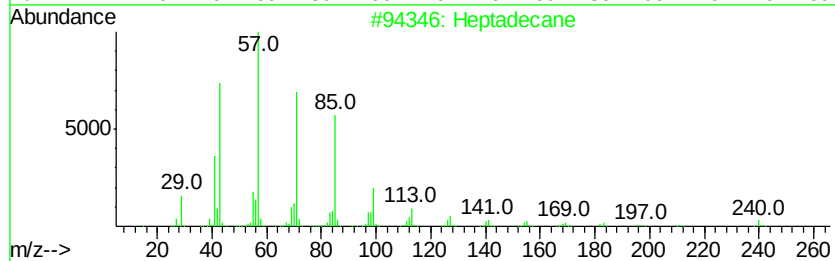
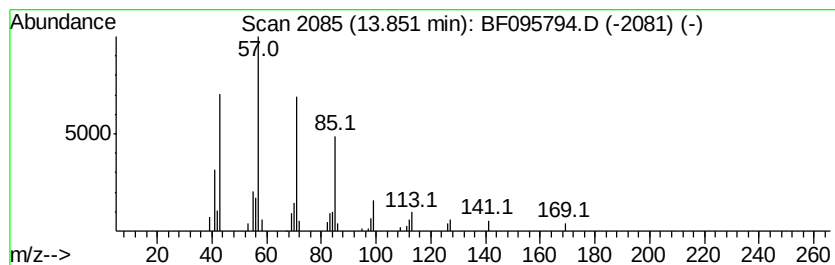
Instrument :  
BNA\_F  
ClientSampleId :  
SOILSAMPLE-1

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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 4 Heptadecane Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD |     | R.T.    |             |      |
|-------|---------|-------|------------------|-----|---------|-------------|------|
| 13.85 | 2.07 ng | 61289 | Phenanthrene-d10 |     | 14.62   |             |      |
| Hit#  | of      | 5     | Tentative ID     | MW  | MolForm | CAS#        | Qual |
| 1     |         |       | Heptadecane      | 240 | C17H36  | 000629-78-7 | 91   |
| 2     |         |       | Octadecane       | 254 | C18H38  | 000593-45-3 | 90   |
| 3     |         |       | Pentadecane      | 212 | C15H32  | 000629-62-9 | 90   |
| 4     |         |       | Nonadecane       | 268 | C19H40  | 000629-92-5 | 87   |
| 5     |         |       | Heptacosane      | 380 | C27H56  | 000593-49-7 | 86   |



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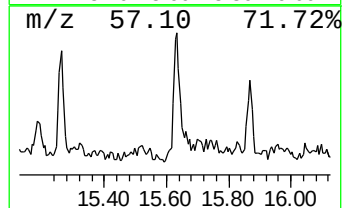
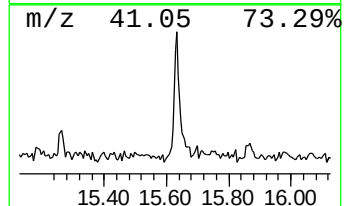
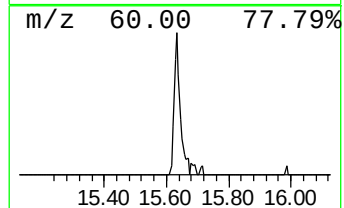
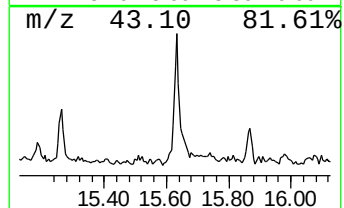
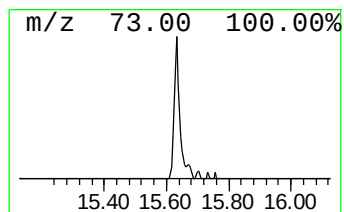
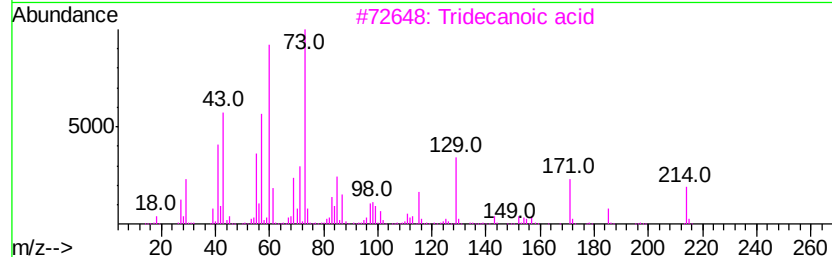
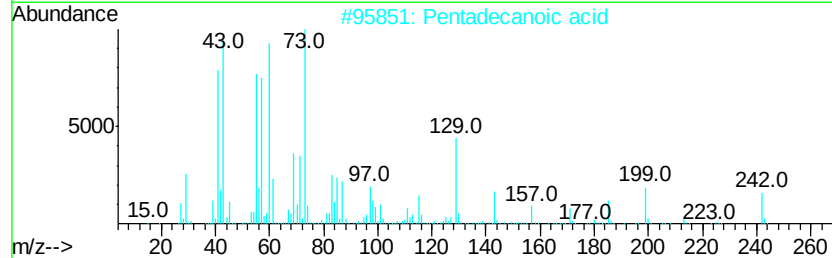
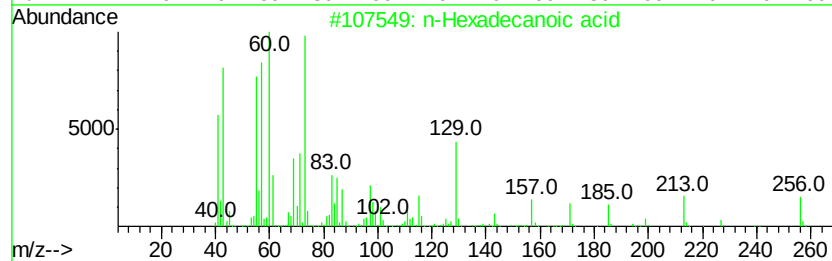
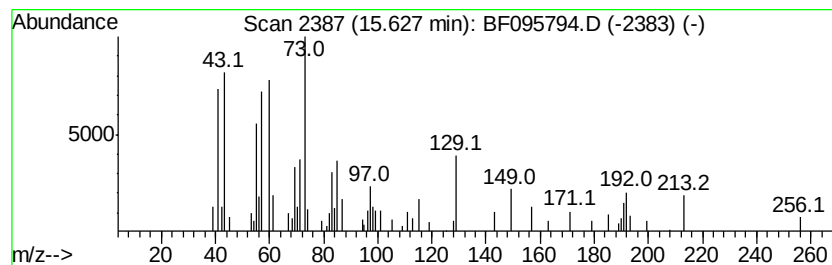
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Peak Number 5 n-Hexadecanoic acid Concentration Rank 4

| R.T.    | EstConc | Area                | Relative to ISTD |          | R.T.        |      |
|---------|---------|---------------------|------------------|----------|-------------|------|
| 15.63   | 3.58 ng | 106134              | Phenanthrene-d10 |          | 14.62       |      |
| Hit# of | 5       | Tentative ID        | MW               | MolForm  | CAS#        | Qual |
| 1       |         | n-Hexadecanoic acid | 256              | C16H32O2 | 000057-10-3 | 98   |
| 2       |         | Pentadecanoic acid  | 242              | C15H30O2 | 001002-84-2 | 87   |
| 3       |         | Tridecanoic acid    | 214              | C13H26O2 | 000638-53-9 | 72   |
| 4       |         | Tetradecanoic acid  | 228              | C14H28O2 | 000544-63-8 | 53   |
| 5       |         | Dodecanoic acid     | 200              | C12H24O2 | 000143-07-7 | 53   |



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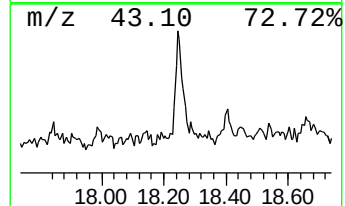
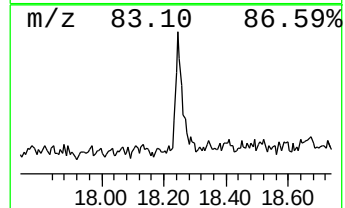
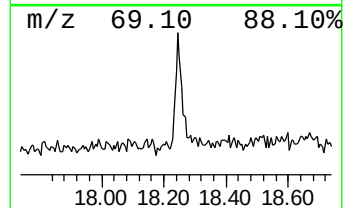
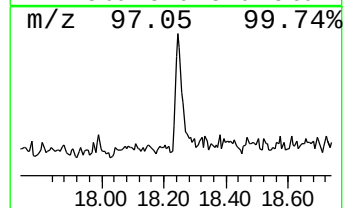
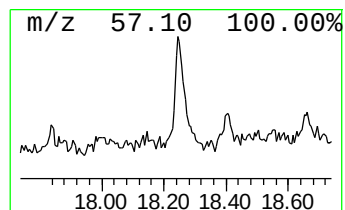
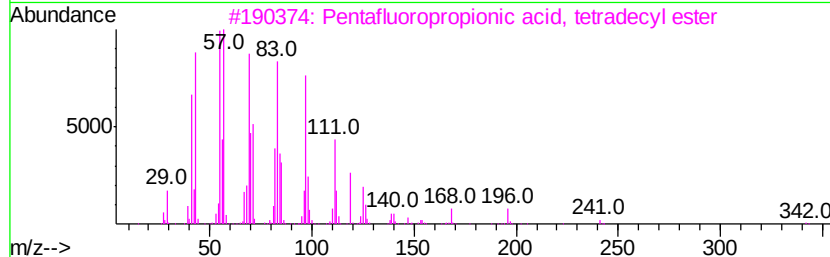
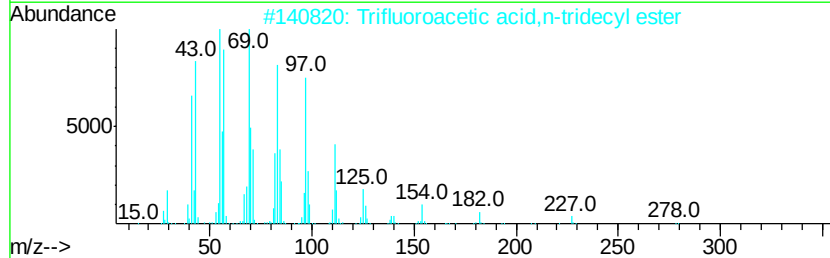
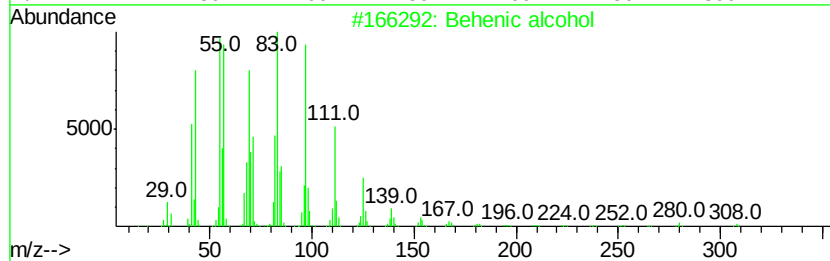
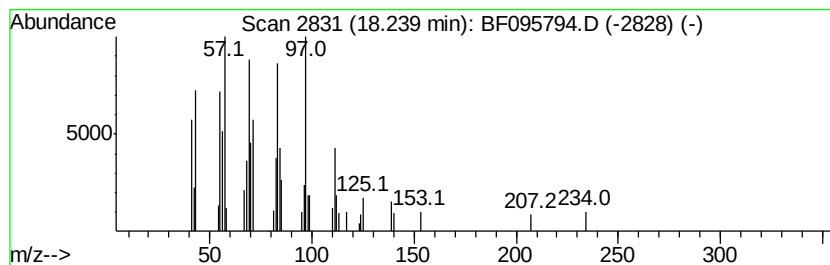
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\*\*\*\*\*  
Peak Number 6 Behenic alcohol Concentration Rank 5

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|-------|------------------|-------------|------|
| 18.24     | 3.13 ng                             | 84718 | Chrysene-d12     | 18.33       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#        | Qual |
| 1         | Behenic alcohol                     | 326   | C22H46O          | 000661-19-8 | 91   |
| 2         | Trifluoroacetic acid,n-tridecyl ... | 296   | C15H27F3O2       | 053800-02-5 | 91   |
| 3         | Pentafluoropropionic acid, tetra... | 360   | C17H29F5O2       | 006222-06-6 | 91   |
| 4         | Heptafluorobutyric acid, n-tetra... | 410   | C18H29F7O2       | 007365-36-8 | 91   |
| 5         | n-Tetracosanol-1                    | 354   | C24H50O          | 000506-51-4 | 83   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060817\  
Data File : BF095794.D  
Acq On : 8 Jun 2017 21:02  
Operator : SJ/MA  
Sample : I3535-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SOILSAMPLE-1

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060517.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 |
| 2-Pentanone, 4-hy... | 4.60  | 10.3    | ng    | 229619   | 1                     | 7.37  | 444221 | 20.0 |
| unknown7.03          | 7.03  | 111.8   | ng    | 2482890  | 1                     | 7.37  | 444221 | 20.0 |
| Heptadecane          | 13.85 | 2.1     | ng    | 61289    | 4                     | 14.62 | 592691 | 20.0 |
| n-Hexadecanoic acid  | 15.63 | 3.6     | ng    | 106134   | 4                     | 14.62 | 592691 | 20.0 |
| Behenic alcohol      | 18.24 | 3.1     | ng    | 84718    | 5                     | 18.33 | 540659 | 20.0 |