

Data Path : Z:\HPCHEM1\BNA F\Data\BF042617\  
 Data File : BF094647.D  
 Acq On : 26 Apr 2017 15:25  
 Operator : SJ/MA  
 Sample : I2847-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AVENUE-A-GROUNDWATER

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\_F\METHODS\8270-BF041717.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         | 3.896       | 329           | 333         | 344          | rBV      | 296274         | 308683        | 11.81%          | 1.818%        |
| 2         | 4.307       | 399           | 403         | 418          | rBV      | 582755         | 633206        | 24.22%          | 3.729%        |
| 3         | 5.372       | 581           | 584         | 585          | rBV      | 488406         | 401508        | 15.36%          | 2.364%        |
| 4         | 5.501       | 602           | 606         | 614          | rVB      | 1316924        | 1180456       | 45.16%          | 6.952%        |
| 5         | 5.754       | 645           | 649         | 653          | rBV      | 772244         | 716888        | 27.42%          | 4.222%        |
| 6         | 5.931       | 674           | 679         | 682          | rBV      | 1779603        | 1664367       | 63.67%          | 9.801%        |
| 7         | 6.401       | 754           | 759         | 762          | rBV      | 1419912        | 1339941       | 51.26%          | 7.891%        |
| 8         | 7.242       | 898           | 902         | 906          | rBV      | 1036246        | 990435        | 37.89%          | 5.833%        |
| 9         | 8.566       | 1120          | 1127        | 1131         | rBV      | 2669196        | 2614076       | 100.00%         | 15.394%       |
| 10        | 8.942       | 1187          | 1191        | 1195         | rBV7     | 54706          | 82818         | 3.17%           | 0.488%        |
| 11        | 9.001       | 1195          | 1201        | 1202         | rBV5     | 43623          | 72245         | 2.76%           | 0.425%        |
| 12        | 9.066       | 1209          | 1212        | 1216         | rBV      | 655953         | 661466        | 25.30%          | 3.895%        |
| 13        | 9.278       | 1242          | 1248        | 1251         | rBV6     | 126960         | 261927        | 10.02%          | 1.542%        |
| 14        | 9.378       | 1260          | 1265        | 1270         | rBV2     | 1062670        | 1415981       | 54.17%          | 8.339%        |
| 15        | 13.201      | 1911          | 1915        | 1918         | rVB      | 1375054        | 1599039       | 61.17%          | 9.417%        |
| 16        | 14.348      | 2108          | 2110        | 2116         | rVB      | 279870         | 337560        | 12.91%          | 1.988%        |
| 17        | 14.460      | 2126          | 2129        | 2133         | rVB      | 806437         | 902236        | 34.51%          | 5.313%        |
| 18        | 15.418      | 2289          | 2292        | 2293         | rBV      | 88786          | 85398         | 3.27%           | 0.503%        |
| 19        | 15.571      | 2314          | 2318        | 2322         | rBV      | 578319         | 629806        | 24.09%          | 3.709%        |
| 20        | 16.083      | 2400          | 2405        | 2410         | rBV      | 644048         | 751258        | 28.74%          | 4.424%        |
| 21        | 16.189      | 2421          | 2423        | 2430         | rVB      | 41228          | 54970         | 2.10%           | 0.324%        |
| 22        | 16.571      | 2484          | 2488        | 2492         | rBV      | 55985          | 75256         | 2.88%           | 0.443%        |
| 23        | 17.001      | 2557          | 2561        | 2565         | rBV2     | 37750          | 54014         | 2.07%           | 0.318%        |
| 24        | 19.071      | 2906          | 2913        | 2922         | rVB7     | 50221          | 147706        | 5.65%           | 0.870%        |

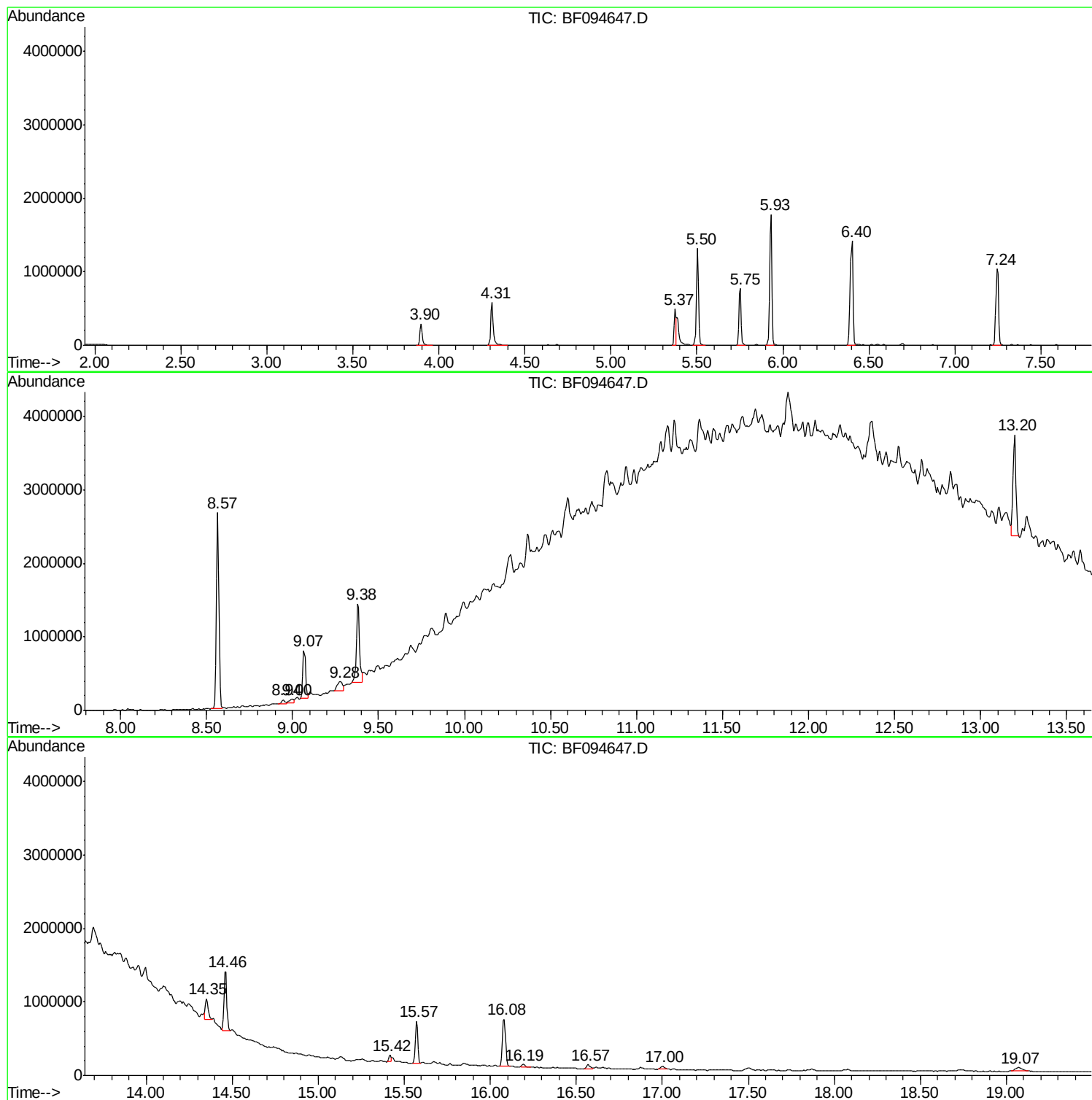
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ALS Vial : 9 Sample Multiplier: 1

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BNA\_F  
ClientSampleId :  
AVENUE-A-GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.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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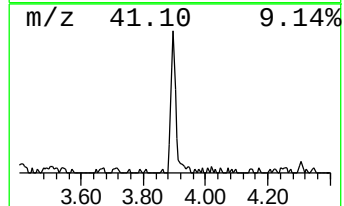
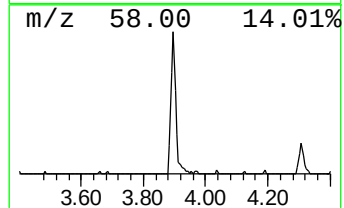
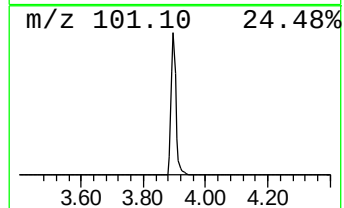
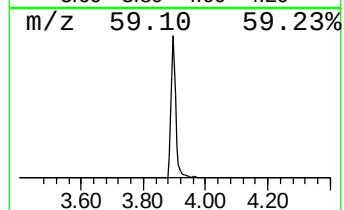
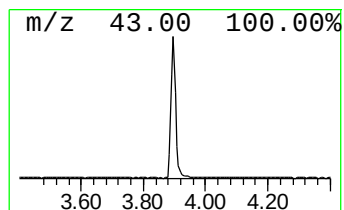
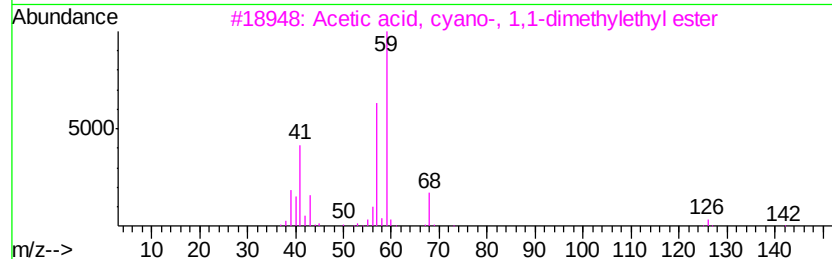
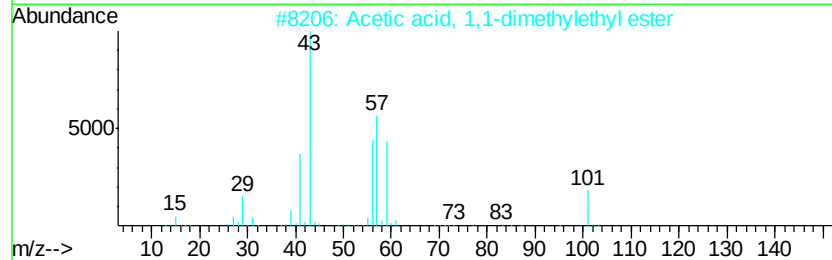
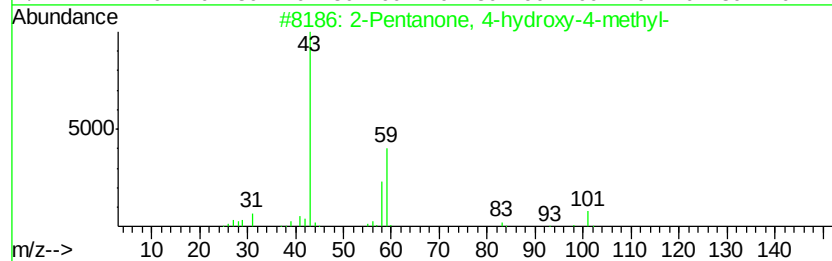
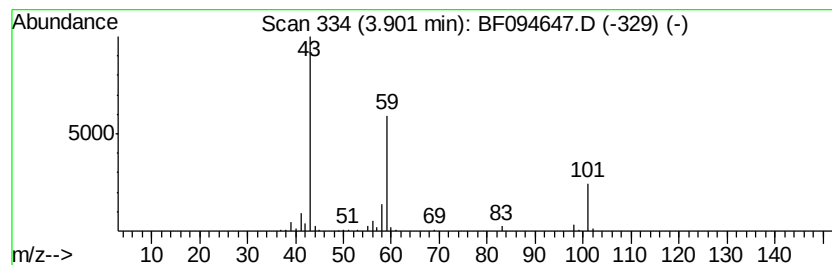
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 3.90 | 8.61 ng | 308683 | 1,4-Dichlorobenzene-d4 | 5.75 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    |   | Acetic acid, 1,1-dimethylethyl e...  | 116 | C6H12O2  | 000540-88-5 | 39   |
| 3    |    |   | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 4    |    |   | Morpholine, 4-methyl-                | 101 | C5H11NO  | 000109-02-4 | 9    |
| 5    |    |   | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 9    |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
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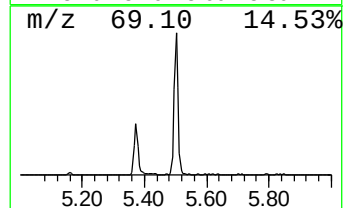
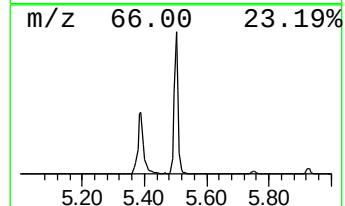
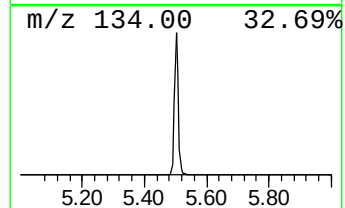
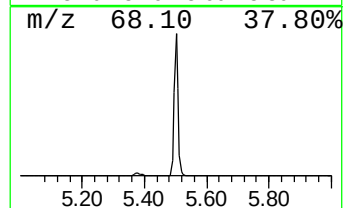
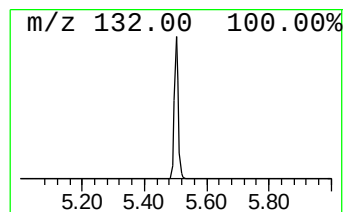
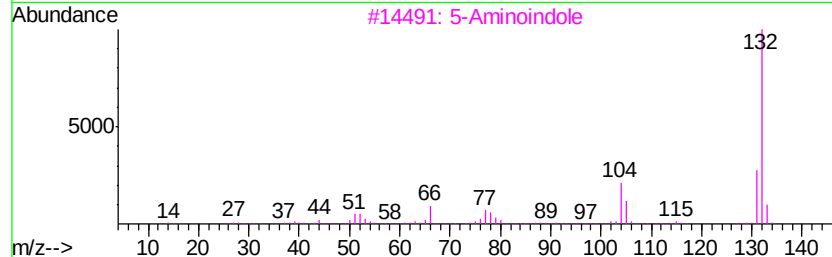
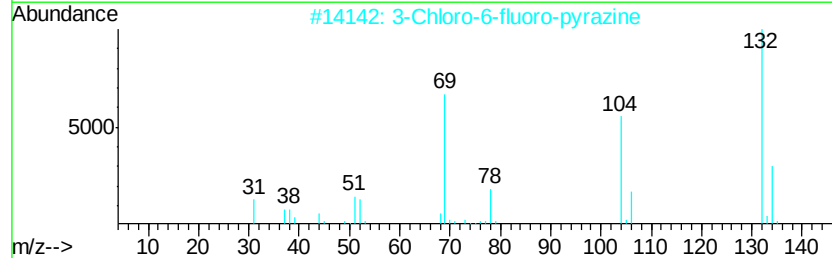
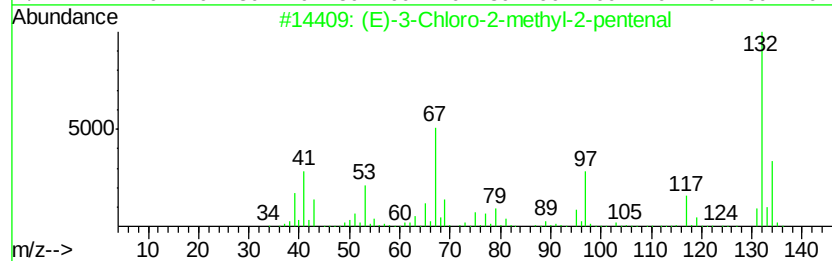
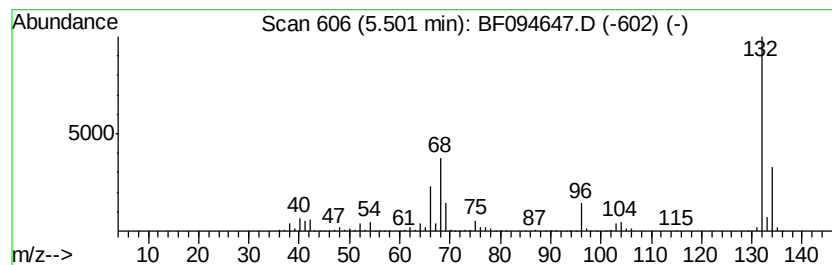
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown5.50 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 5.50 | 32.93 ng | 1180460 | 1,4-Dichlorobenzene-d4 | 5.75 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 35   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | 4-Chloro-2-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 5    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 9    |



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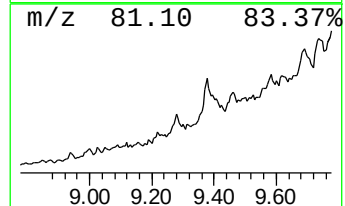
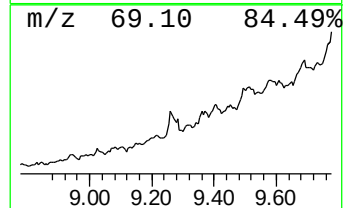
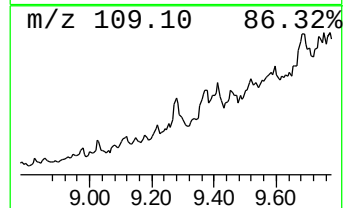
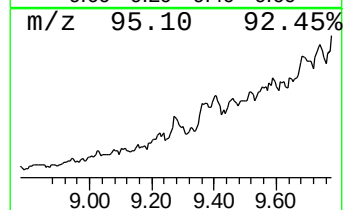
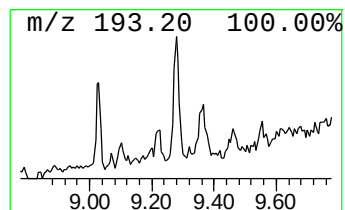
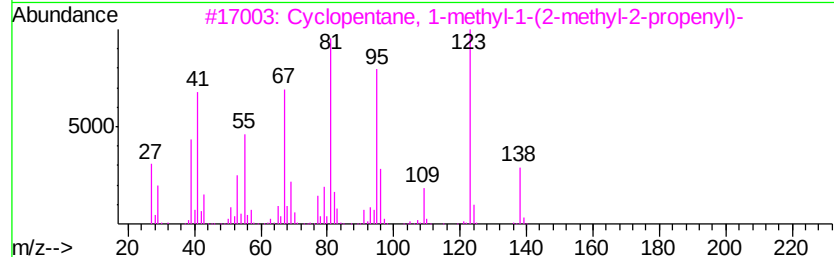
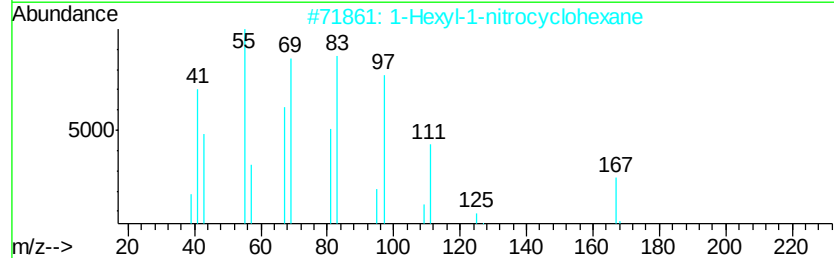
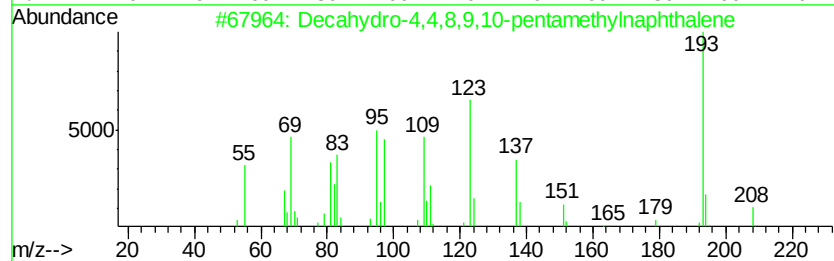
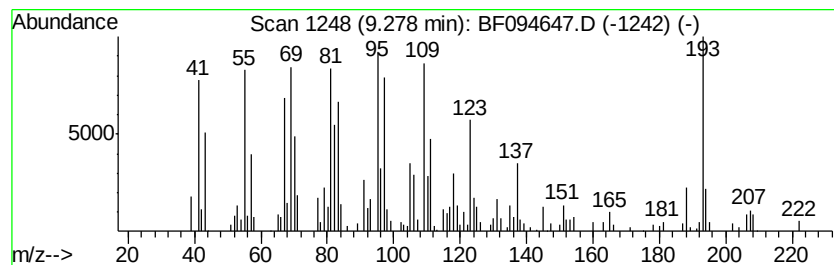
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown9.28 Concentration Rank 7

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.28 | 3.70 ng | 261927 | Acenaphthene-d10 | 9.38 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Decahydro-4,4,8,9,10-pentamethyl... | 208 | C15H28    | 080655-44-3 | 30   |
| 2    |    | 1-Hexyl-1-nitrocyclohexane          | 213 | C12H23NO2 | 118252-09-8 | 25   |
| 3    |    | Cyclopentane, 1-methyl-1-(2-meth... | 138 | C10H18    | 074764-47-9 | 22   |
| 4    |    | Cyclooctane, methyl-                | 126 | C9H18     | 001502-38-1 | 15   |
| 5    |    | 2-Cyclohexen-1-one, 4-(2-oxoprop... | 152 | C9H12O2   | 056051-94-6 | 14   |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
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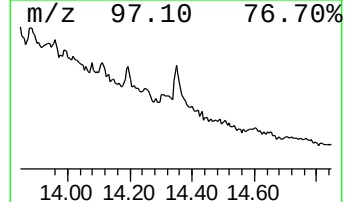
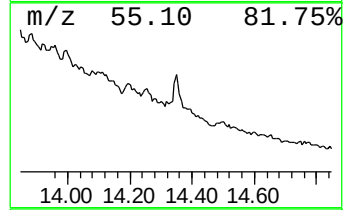
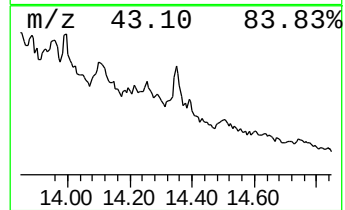
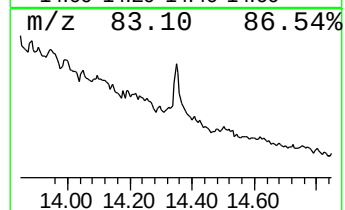
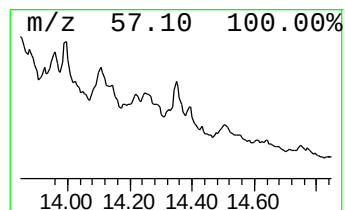
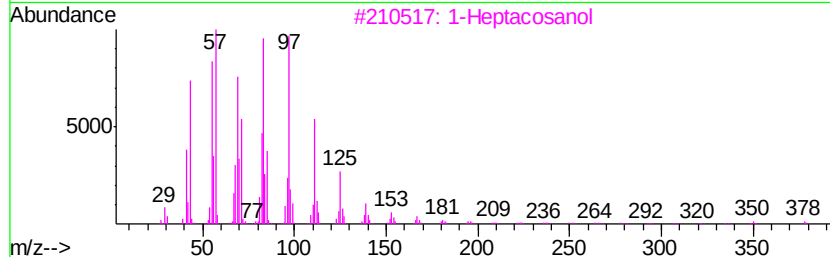
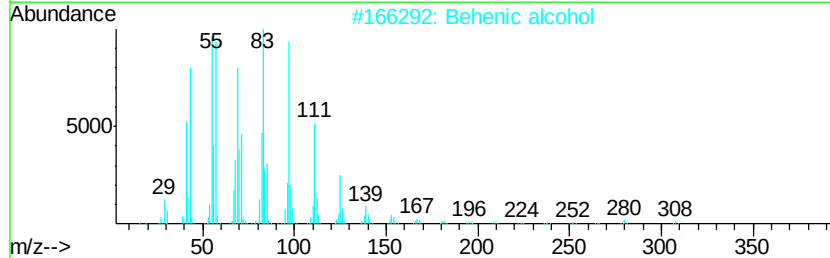
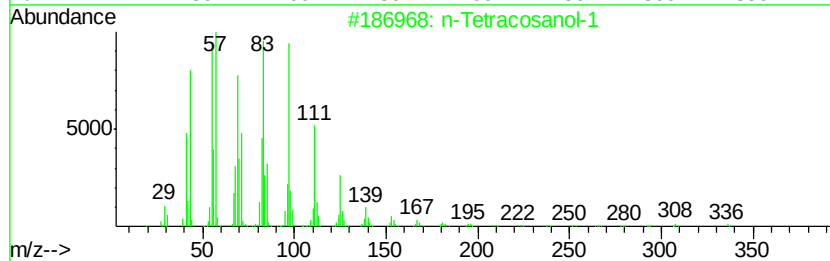
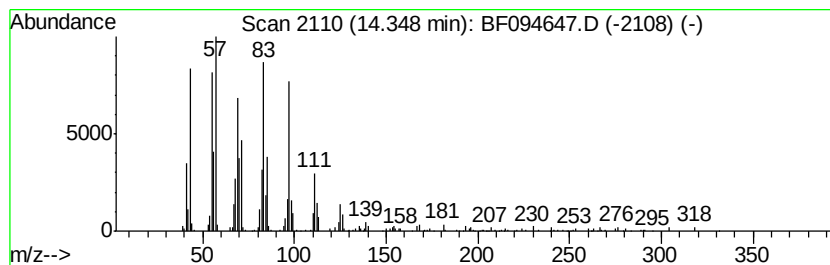
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Peak Number 5 n-Tetracosanol-1 Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.35 | 7.48 ng | 337560 | Chrysene-d12     | 14.47 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | n-Tetracosanol-1                    | 354 | C24H50O    | 000506-51-4  | 93   |
| 2    |    | Behenic alcohol                     | 326 | C22H46O    | 000661-19-8  | 93   |
| 3    |    | 1-Heptacosanol                      | 396 | C27H56O    | 002004-39-9  | 90   |
| 4    |    | Heptafluorobutyric acid, n-octad... | 466 | C22H37F7O2 | 000400-57-7  | 83   |
| 5    |    | Nonadecyl heptafluorobutyrate       | 480 | C23H39F7O2 | 1000351-83-9 | 81   |



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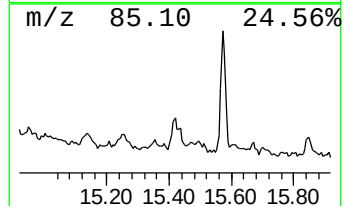
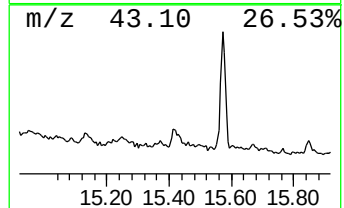
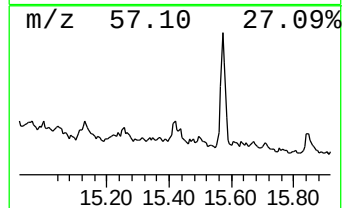
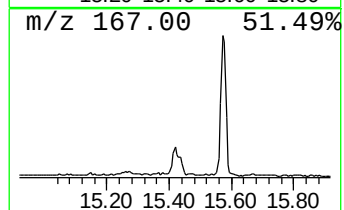
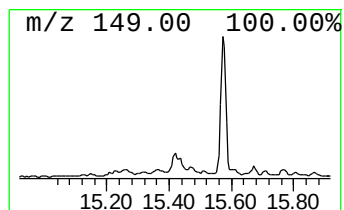
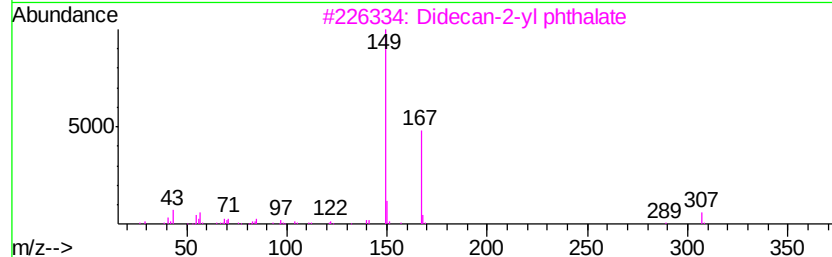
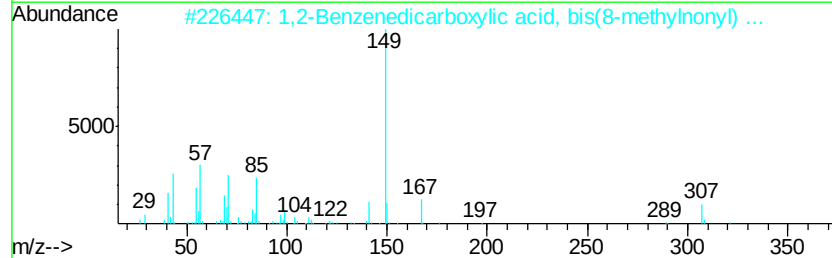
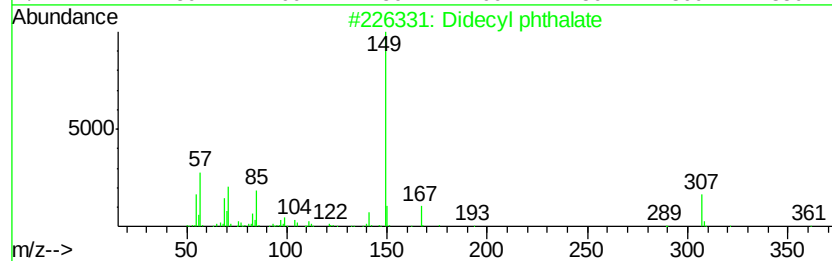
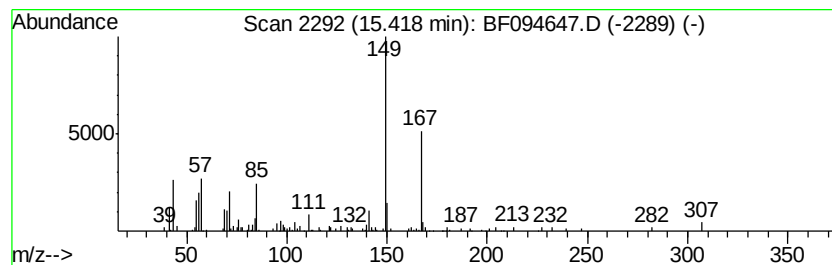
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Peak Number 6 Didecyl phthalate Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 15.42 | 2.27 ng | 85398 | Perylene-d12     | 16.08 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Didecyl phthalate                   | 446 | C28H46O4 | 000084-77-5  | 58   |
| 2    |    | 1,2-Benzenedicarboxylic acid, bi... | 446 | C28H46O4 | 000089-16-7  | 53   |
| 3    |    | Didecan-2-yl phthalate              | 446 | C28H46O4 | 028029-89-2  | 53   |
| 4    |    | Phthalic acid, di(6-methylhept-2... | 390 | C24H38O4 | 1000377-97-3 | 53   |
| 5    |    | Dicyclohexyl phthalate              | 330 | C20H26O4 | 000084-61-7  | 47   |



Data Path : Z:\HPCHEM1\BNA F\Data\BF042617\  
Data File : BF094647.D  
Acq On : 26 Apr 2017 15:25  
Operator : SJ/MA  
Sample : I2847-01  
Misc :  
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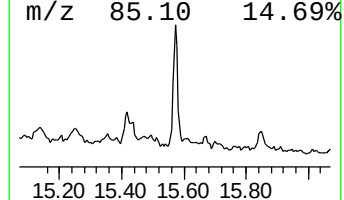
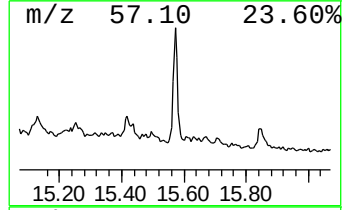
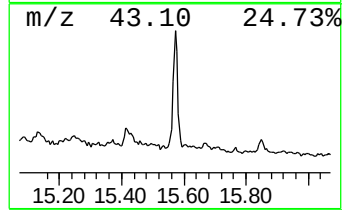
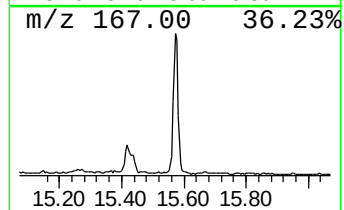
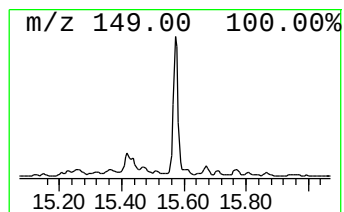
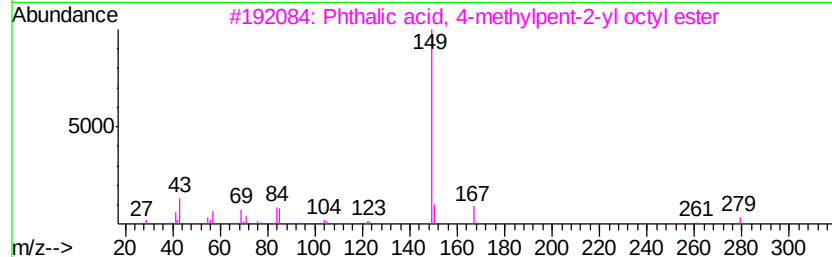
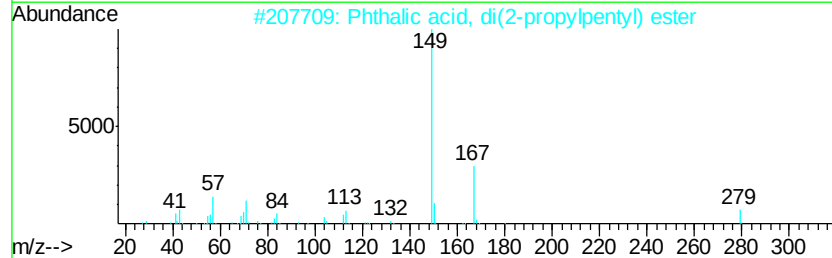
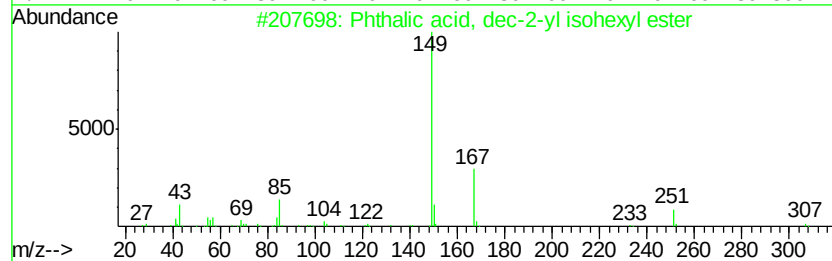
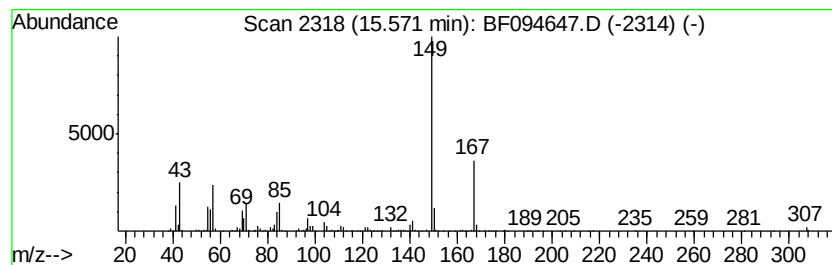
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AVENUE-A-GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Phthalic acid, dec-2-yl iso... Concentration Rank 3

| R.T.    | EstConc        | Area                 | Relative to ISTD | R.T.     |              |      |
|---------|----------------|----------------------|------------------|----------|--------------|------|
| 15.57   | 16.77 ng       | 629806               | Perylene-d12     | 16.08    |              |      |
| Hit# of | 5              | Tentative ID         | MW               | MolForm  | CAS#         | Qual |
| 1       | Phthalic acid, | dec-2-yl isohexyl... | 390              | C24H38O4 | 1000356-94-1 | 72   |
| 2       | Phthalic acid, | di(2-propylpentyl... | 390              | C24H38O4 | 1000377-93-5 | 64   |
| 3       | Phthalic acid, | 4-methylpent-2-yl... | 362              | C22H34O4 | 1000356-87-8 | 64   |
| 4       | Phthalic acid, | di(6-methylhept-2... | 390              | C24H38O4 | 1000377-97-3 | 64   |
| 5       | Phthalic acid, | cyclohexylmethyl ... | 332              | C20H28O4 | 1000315-55-5 | 59   |





Data Path : Z:\HPCHEM1\BNA F\Data\BF042617\  
Data File : BF094647.D  
Acq On : 26 Apr 2017 15:25  
Operator : SJ/MA  
Sample : I2847-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

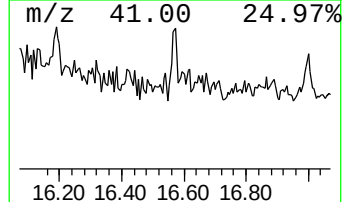
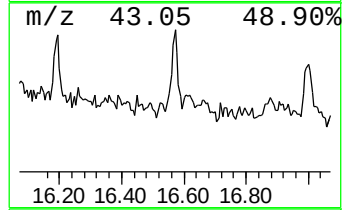
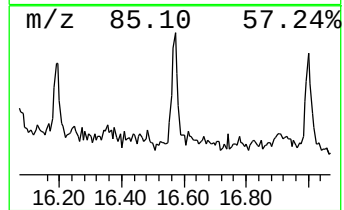
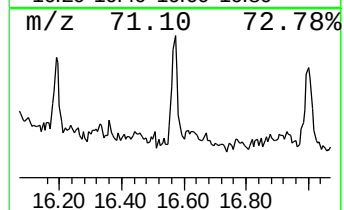
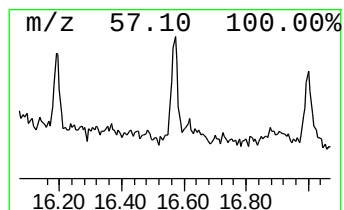
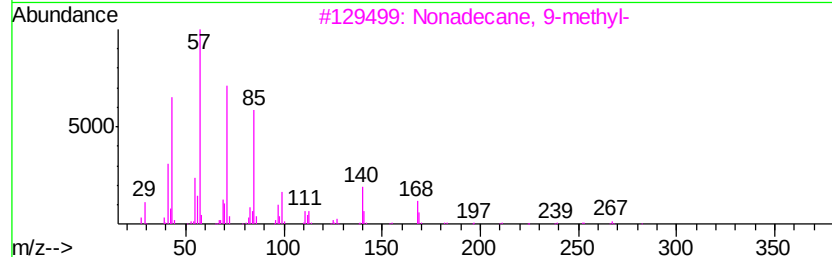
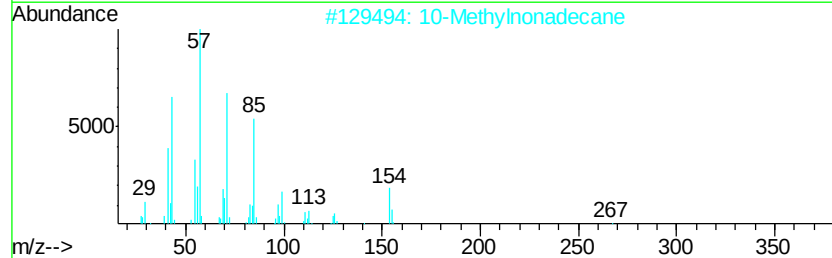
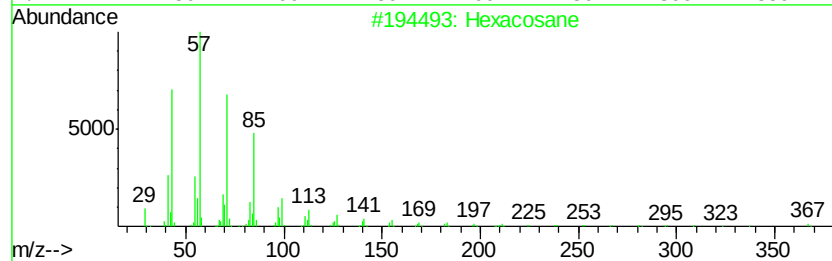
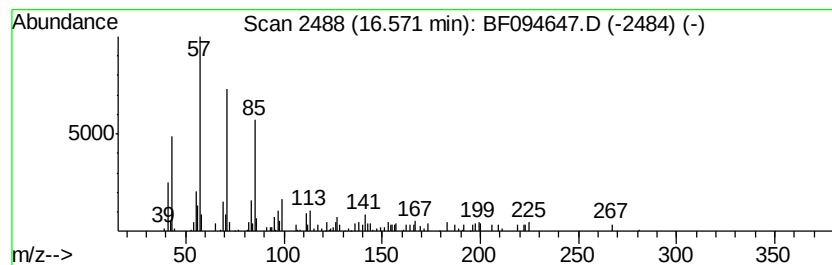
Instrument :  
BNA\_F  
ClientSampleId :  
AVENUE-A-GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.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 8 Hexacosane Concentration Rank 9

| R.T.    | EstConc               | Area         | Relative to ISTD | R.T.      |
|---------|-----------------------|--------------|------------------|-----------|
| 16.57   | 2.00 ng               | 75256        | Perylene-d12     | 16.08     |
| Hit# of | 5                     | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Hexacosane            | 366 C26H54   | 000630-01-3      | 87        |
| 2       | 10-Methylnonadecane   | 282 C20H42   | 056862-62-5      | 86        |
| 3       | Nonadecane, 9-methyl- | 282 C20H42   | 013287-24-6      | 86        |
| 4       | Heptadecane, 9-octyl- | 352 C25H52   | 007225-64-1      | 83        |
| 5       | Docosane              | 310 C22H46   | 000629-97-0      | 72        |



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Acq On : 26 Apr 2017 15:25  
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Sample : I2847-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AVENUE-A-GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

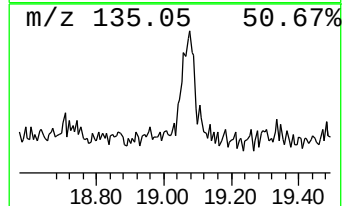
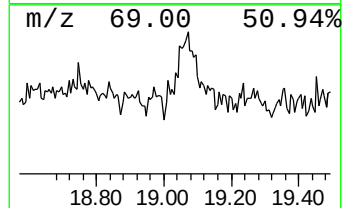
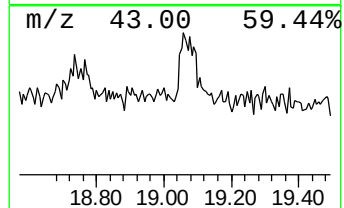
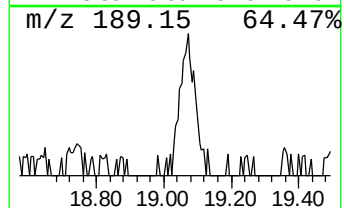
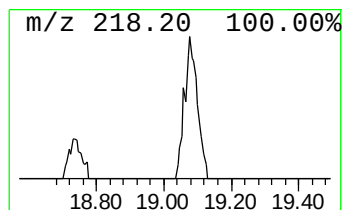
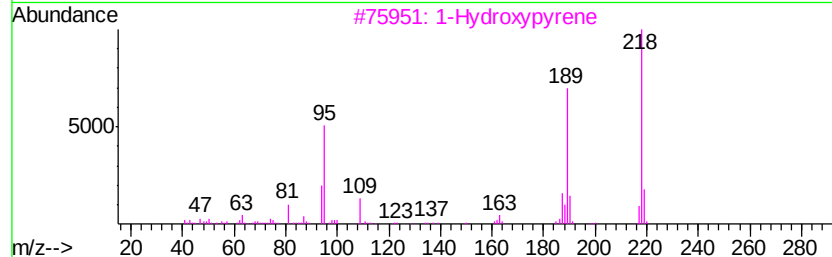
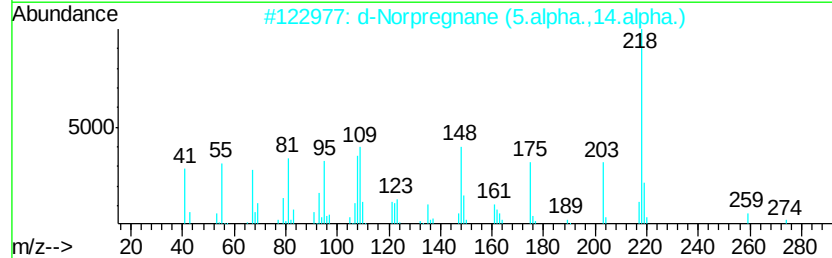
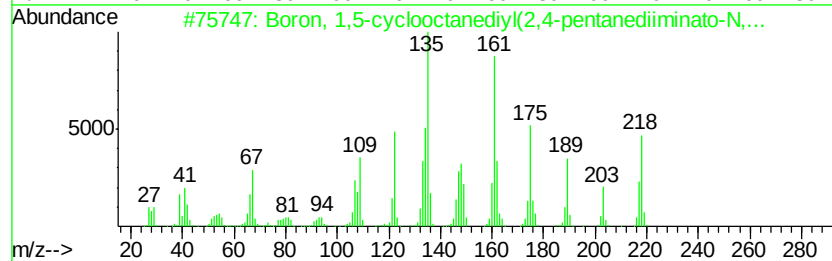
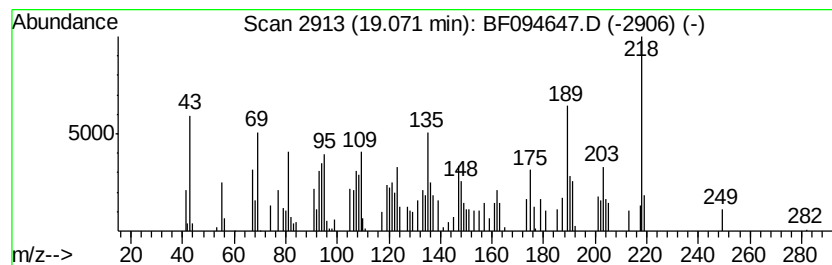
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Boron, 1,5-cyclooctanediyl(...) Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.07 | 3.93 ng | 147706 | Perylene-d12     | 16.08 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Boron, 1,5-cvclooctanediyl(2,4-p... | 218 | C13H23BN2 | 136704-99-9  | 52   |
| 2    |    | d-Norpregnane (5.alpha.,14.alpha.)  | 274 | C20H34    | 1000281-13-7 | 47   |
| 3    |    | 1-Hydroxypvrene                     | 218 | C16H10O   | 005315-79-7  | 46   |
| 4    |    | 3,4-2H-Coumarin, 4,4,5,6,8-penta... | 218 | C14H18O2  | 1000129-70-7 | 45   |
| 5    |    | Benzo[b]naphtho[2,3-d]furan         | 218 | C16H10O   | 000243-42-5  | 43   |



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Operator : SJ/MA  
Sample : I2847-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
AVENUE-A-GROUNDWATER

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF041717.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... | 3.90  | 8.6 ng  |       | 308683   | 1                     | 5.75  | 716888  | 20.0 |
| unknown5.50          | 5.50  | 32.9 ng |       | 1180460  | 1                     | 5.75  | 716888  | 20.0 |
| unknown9.28          | 9.28  | 3.7 ng  |       | 261927   | 3                     | 9.38  | 1415980 | 20.0 |
| n-Tetracosanol-1     | 14.35 | 7.5 ng  |       | 337560   | 5                     | 14.47 | 902236  | 20.0 |
| Didecyl phthalate    | 15.42 | 2.3 ng  |       | 85398    | 6                     | 16.08 | 751258  | 20.0 |
| Phthalic acid, de... | 15.57 | 16.8 ng |       | 629806   | 6                     | 16.08 | 751258  | 20.0 |
| Hexacosane           | 16.57 | 2.0 ng  |       | 75256    | 6                     | 16.08 | 751258  | 20.0 |
| Boron, 1,5-cycloo... | 19.07 | 3.9 ng  |       | 147706   | 6                     | 16.08 | 751258  | 20.0 |