

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040418\  
 Data File : BF104232.D  
 Acq On : 4 Apr 2018 18:22  
 Operator : JU/SJ  
 Sample : J2185-10  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOWER-CONCRETE-SLAB-2

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-BF032818.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         | 2.293       | 29            | 35          | 45           | rVB      | 112584         | 166037        | 4.07%           | 0.543%        |
| 2         | 5.187       | 523           | 527         | 548          | rBV      | 388947         | 609527        | 14.94%          | 1.995%        |
| 3         | 5.593       | 593           | 596         | 629          | rBV      | 534557         | 1610359       | 39.48%          | 5.270%        |
| 4         | 6.592       | 763           | 766         | 785          | rBV      | 1403683        | 2749301       | 67.41%          | 8.998%        |
| 5         | 6.722       | 785           | 788         | 815          | rVB      | 1607718        | 2680150       | 65.71%          | 8.771%        |
| 6         | 6.957       | 824           | 828         | 833          | rBV      | 220748         | 404225        | 9.91%           | 1.323%        |
| 7         | 7.104       | 849           | 853         | 890          | rVB      | 1872908        | 2619336       | 64.22%          | 8.572%        |
| 8         | 7.516       | 920           | 923         | 946          | rBV      | 1070483        | 1952567       | 47.87%          | 6.390%        |
| 9         | 8.228       | 1041          | 1044        | 1068         | rBV      | 464750         | 884500        | 21.69%          | 2.895%        |
| 10        | 9.298       | 1222          | 1226        | 1242         | rBV      | 2935699        | 3944885       | 96.72%          | 12.910%       |
| 11        | 9.692       | 1286          | 1293        | 1305         | rBV      | 209248         | 317265        | 7.78%           | 1.038%        |
| 12        | 9.892       | 1324          | 1327        | 1331         | rBV      | 60022          | 51390         | 1.26%           | 0.168%        |
| 13        | 9.986       | 1339          | 1343        | 1355         | rBV      | 934647         | 1034312       | 25.36%          | 3.385%        |
| 14        | 10.392      | 1410          | 1412        | 1415         | rVB      | 82908          | 64260         | 1.58%           | 0.210%        |
| 15        | 10.786      | 1475          | 1479        | 1490         | rBV      | 835236         | 1261623       | 30.93%          | 4.129%        |
| 16        | 10.863      | 1490          | 1492        | 1504         | rVB      | 95246          | 151547        | 3.72%           | 0.496%        |
| 17        | 11.316      | 1566          | 1569        | 1571         | rBV      | 50843          | 44511         | 1.09%           | 0.146%        |
| 18        | 11.486      | 1594          | 1598        | 1613         | rBV      | 759251         | 1105244       | 27.10%          | 3.617%        |
| 19        | 11.986      | 1680          | 1683        | 1687         | rBV4     | 32442          | 44946         | 1.10%           | 0.147%        |
| 20        | 13.069      | 1863          | 1867        | 1884         | rBV      | 3246236        | 4078679       | 100.00%         | 13.348%       |
| 21        | 13.933      | 2012          | 2014        | 2021         | rVB      | 116581         | 128246        | 3.14%           | 0.420%        |
| 22        | 14.080      | 2036          | 2039        | 2043         | rVB      | 56539          | 52369         | 1.28%           | 0.171%        |
| 23        | 14.139      | 2045          | 2049        | 2065         | rBV      | 665185         | 972699        | 23.85%          | 3.183%        |
| 24        | 14.739      | 2146          | 2151        | 2155         | rBV      | 2785098        | 2973070       | 72.89%          | 9.730%        |
| 25        | 15.674      | 2305          | 2310        | 2324         | rBV      | 351057         | 654855        | 16.06%          | 2.143%        |

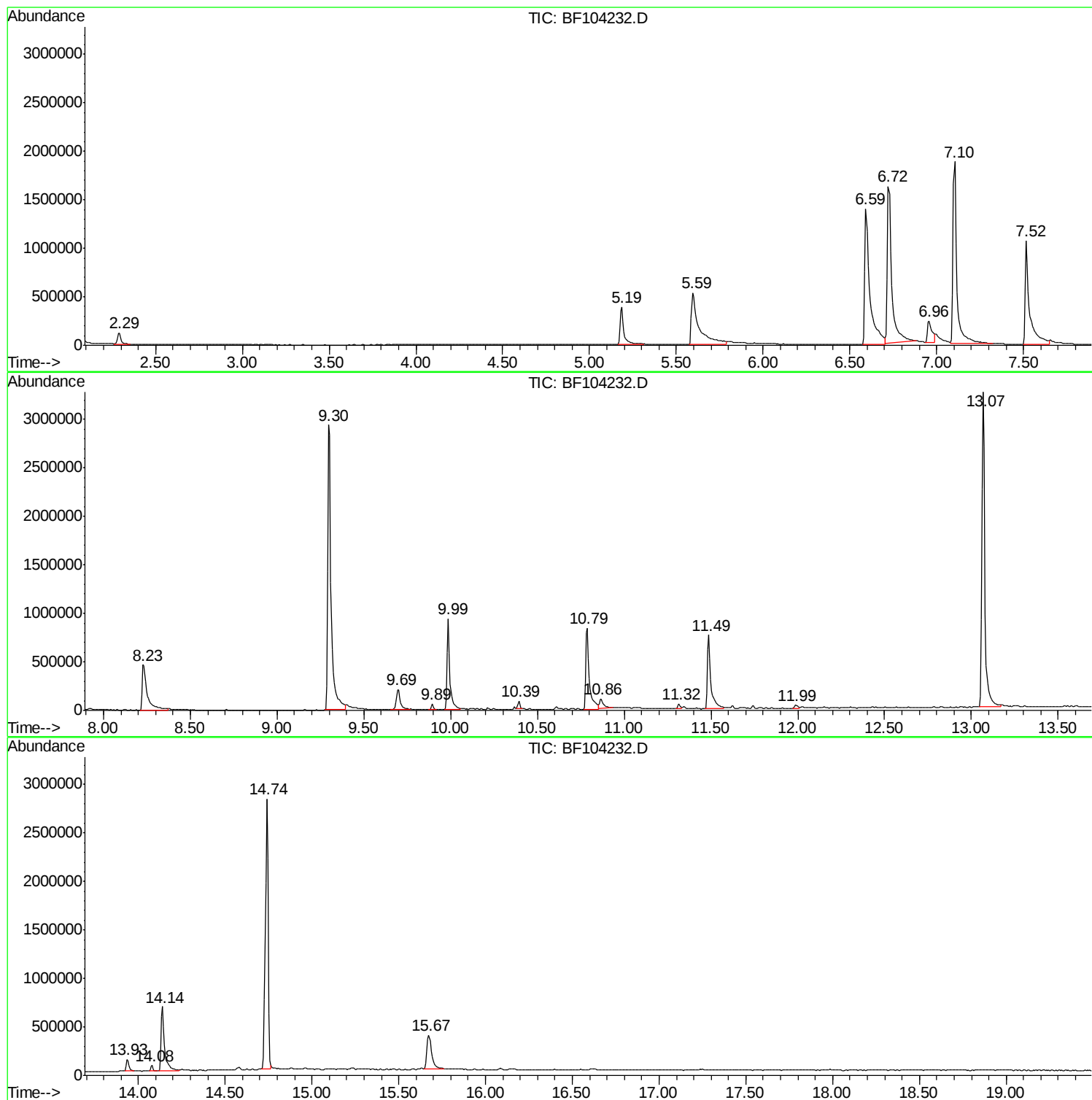
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BNA\_F  
ClientSampleId :  
LOWER-CONCRETE-SLAB-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032818.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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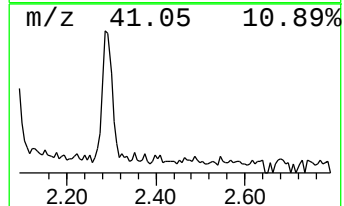
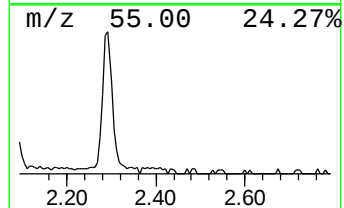
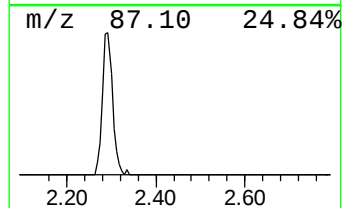
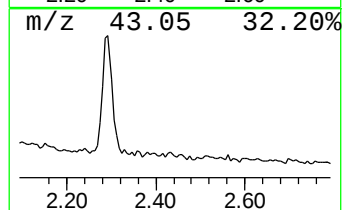
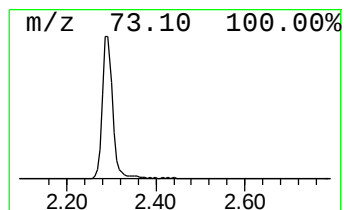
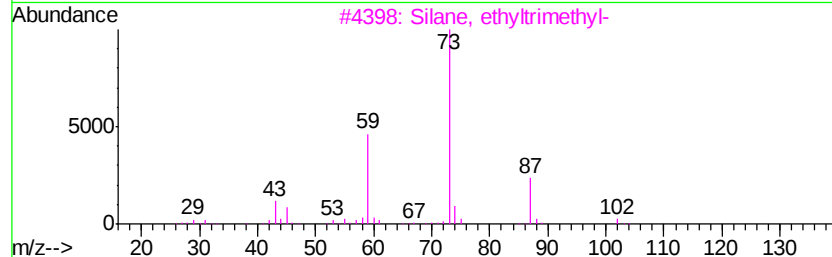
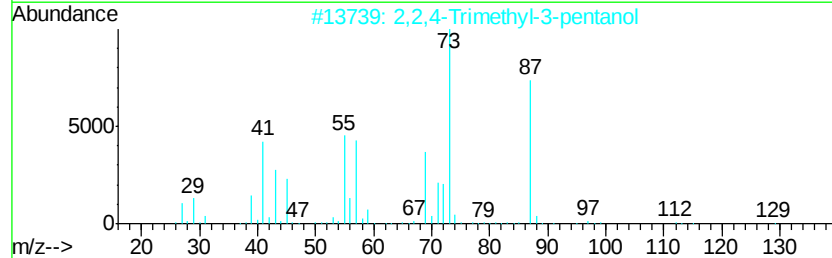
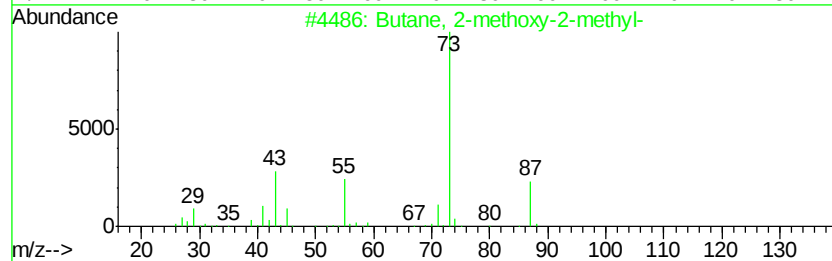
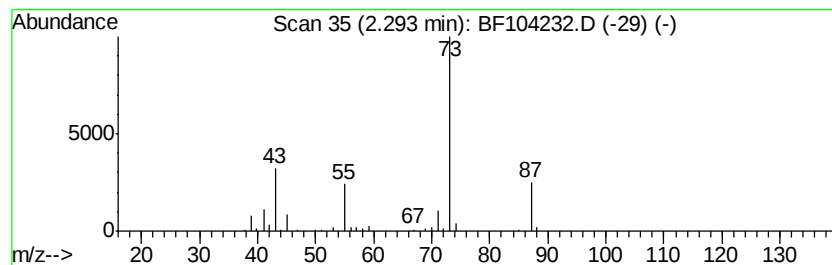
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 4

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.29 | 8.22 ng | 166037 | 1,4-Dichlorobenzene-d4 | 6.96 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    |   | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 40   |
| 3    |    |   | Silane, ethyltrimethyl-     | 102 | C5H14Si | 003439-38-1 | 36   |
| 4    |    |   | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 25   |
| 5    |    |   | 3-Hexanol, 2-methyl-        | 116 | C7H16O  | 000617-29-8 | 17   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

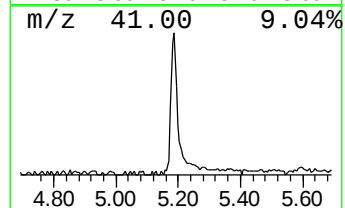
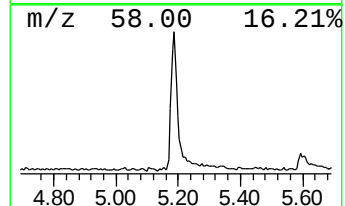
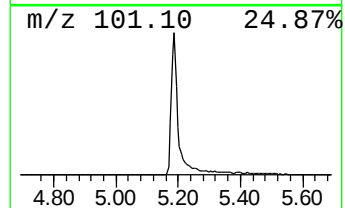
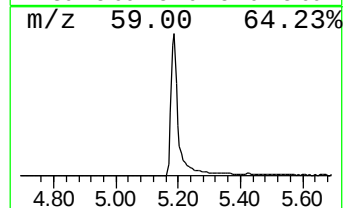
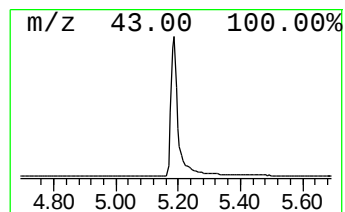
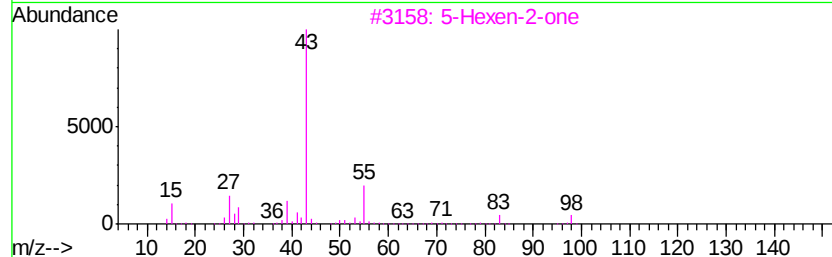
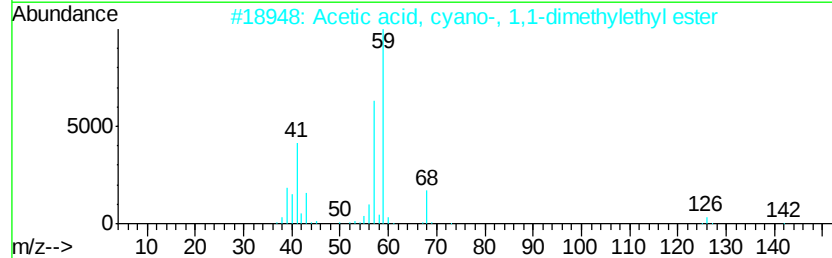
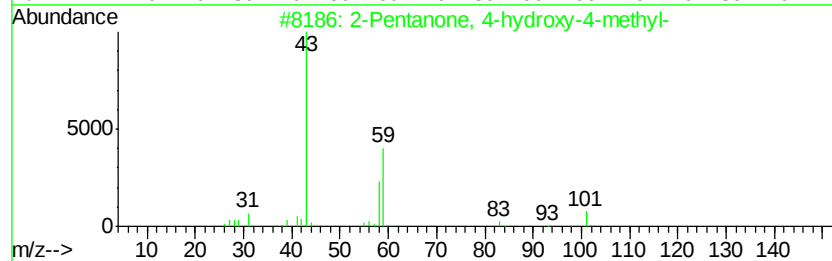
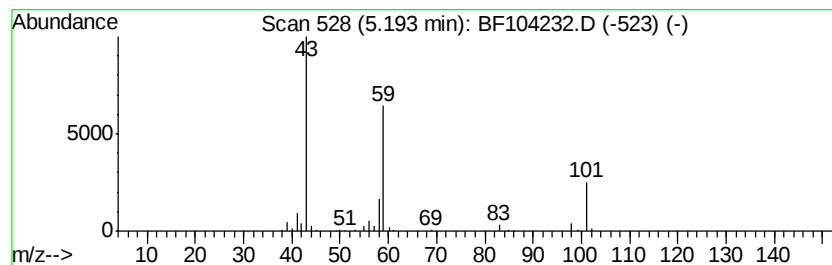
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.19 | 30.16 ng | 609527 | 1,4-Dichlorobenzene-d4 | 6.96 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 64   |
| 2    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 3    |    | 5-Hexen-2-one                        | 98  | C6H10O   | 000109-49-9 | 9    |
| 4    |    | Morpholine, 4-methyl-                | 101 | C5H11NO  | 000109-02-4 | 9    |
| 5    |    | (+)-4-Amino-4,5-dihydro-2(3H)-f...   | 101 | C4H7NO2  | 016504-58-8 | 9    |



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LOWER-CONCRETE-SLAB-2

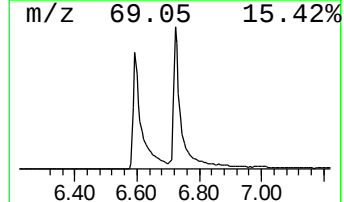
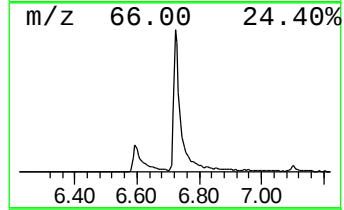
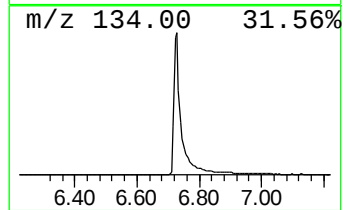
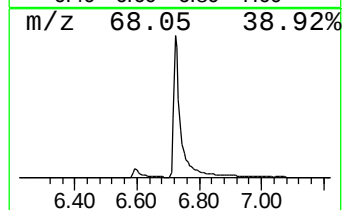
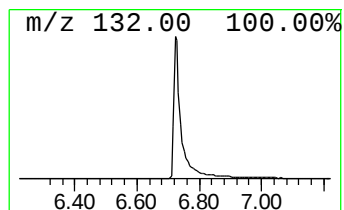
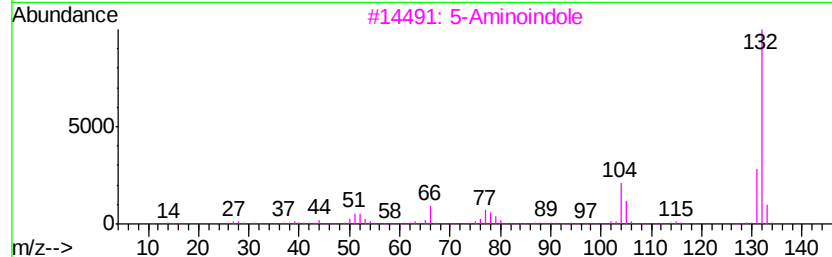
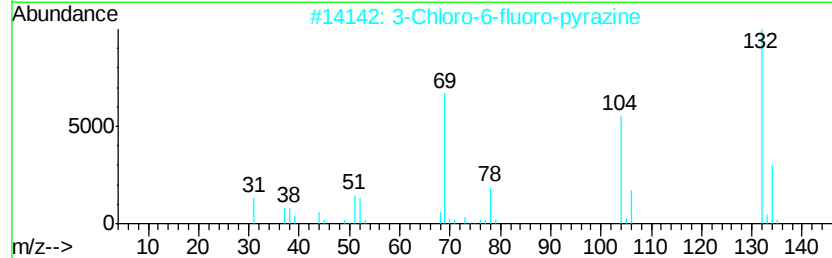
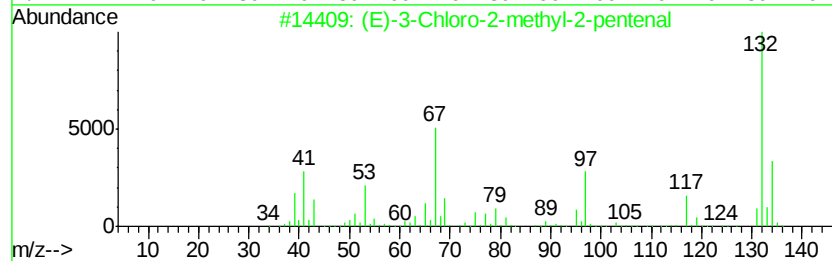
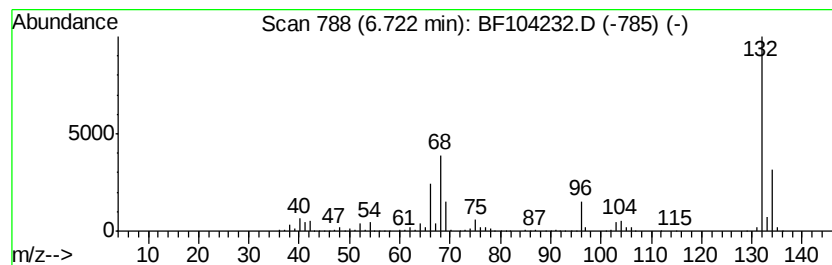
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown6.72 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 6.72 | 132.61 ng | 2680150 | 1,4-Dichlorobenzene-d4 | 6.96 |

| 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-Methyl-2-pyridyl)acetonitrile | 132 | C8H8N2    | 1000241-93-9 | 9    |



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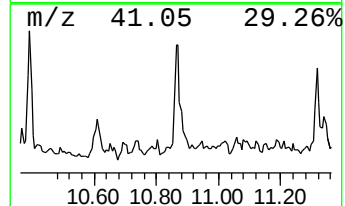
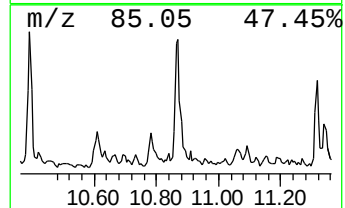
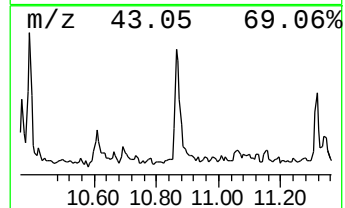
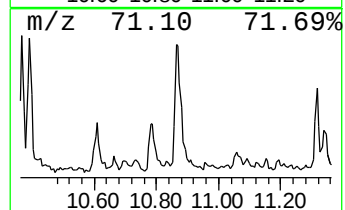
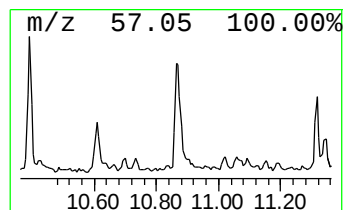
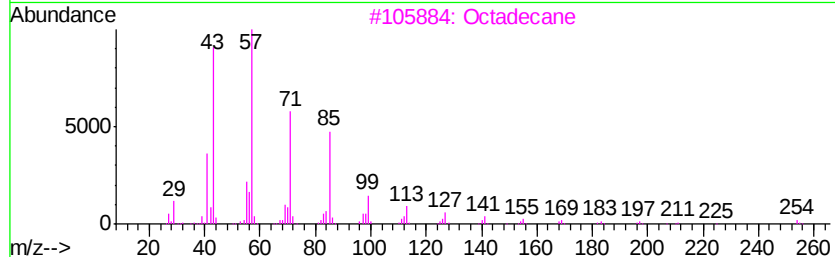
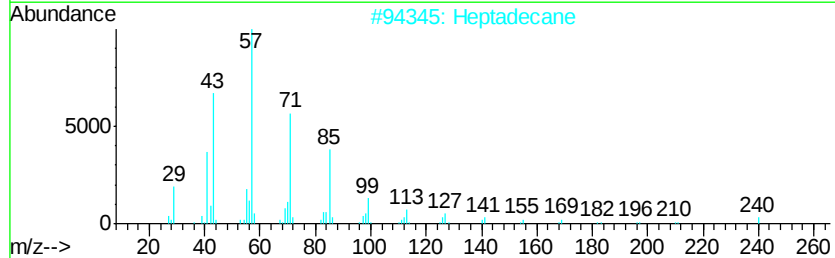
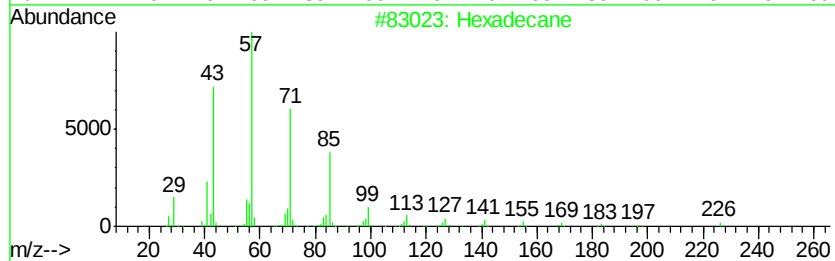
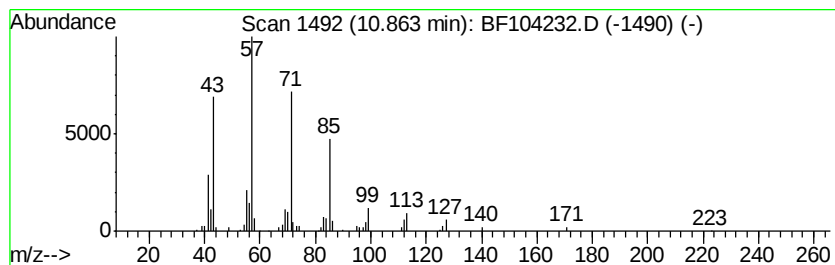
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Peak Number 5 Hexadecane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.86 | 2.74 ng | 151547 | Phenanthrene-d10 | 11.49 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 90   |
| 2       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 90   |
| 3       | Octadecane  |              | 254 | C18H38  | 000593-45-3 | 90   |
| 4       | Tetracosane |              | 338 | C24H50  | 000646-31-1 | 86   |
| 5       | Heneicosane |              | 296 | C21H44  | 000629-94-7 | 86   |



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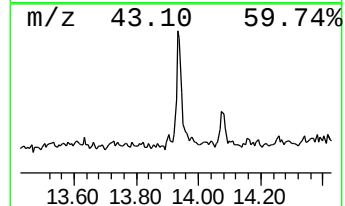
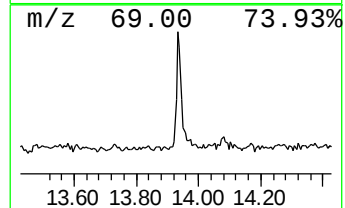
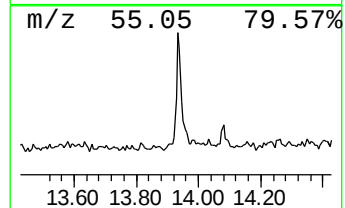
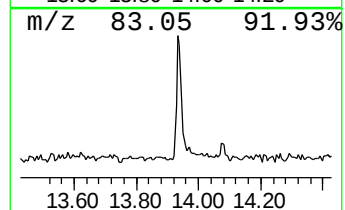
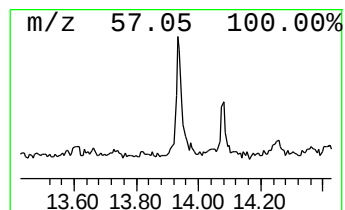
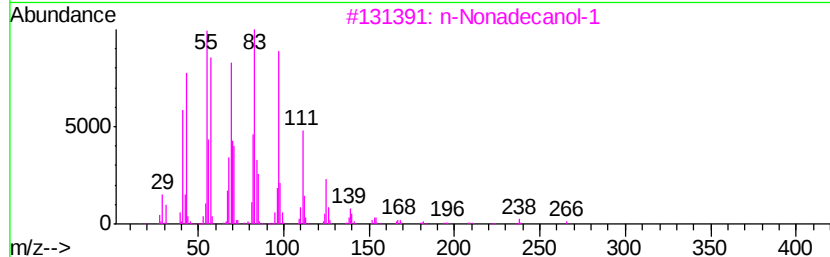
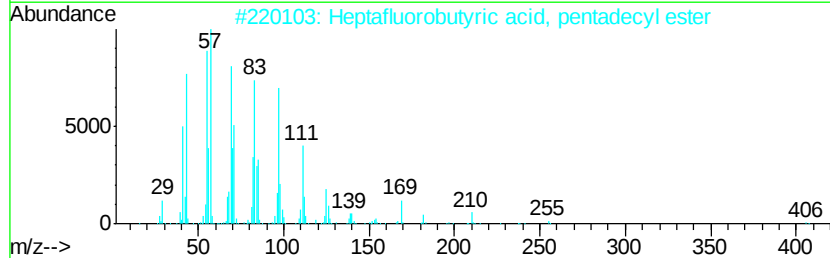
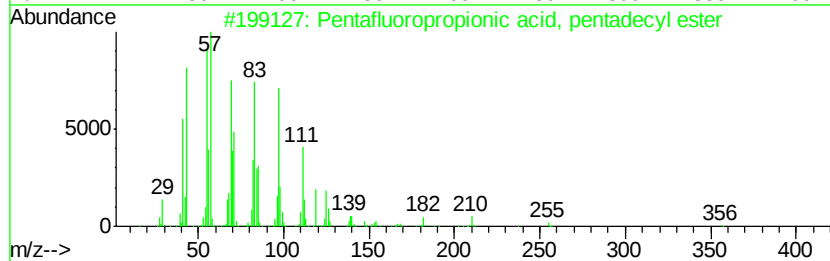
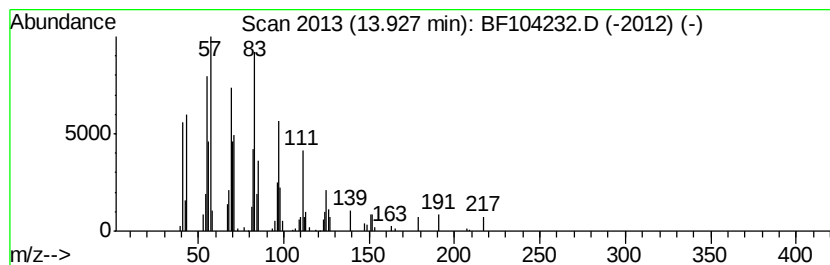
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Pentafluoropropionic acid, ... Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.93 | 2.64 ng | 128246 | Chrysene-d12     | 14.14 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2 | 959092-08-1 | 94   |
| 2    |    | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 94   |
| 3    |    | n-Nonadecanol-1                     | 284 | C19H40O    | 001454-84-8 | 93   |
| 4    |    | Heptafluorobutyric acid, n-tetra... | 410 | C18H29F7O2 | 007365-36-8 | 91   |
| 5    |    | 1-Heptacosanol                      | 396 | C27H56O    | 002004-39-9 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040418\  
Data File : BF104232.D  
Acq On : 4 Apr 2018 18:22  
Operator : JU/SJ  
Sample : J2185-10  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
LOWER-CONCRETE-SLAB-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032818.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... | 2.29  | 8.2     | ng    | 166037   | 1                     | 6.96  | 404225  | 20.0 |
| 2-Pentanone, 4-hy... | 5.19  | 30.2    | ng    | 609527   | 1                     | 6.96  | 404225  | 20.0 |
| unknown6.72          | 6.72  | 132.6   | ng    | 2680150  | 1                     | 6.96  | 404225  | 20.0 |
| Hexadecane           | 10.86 | 2.7     | ng    | 151547   | 4                     | 11.49 | 1105240 | 20.0 |
| Pentafluoropropio... | 13.93 | 2.6     | ng    | 128246   | 5                     | 14.14 | 972699  | 20.0 |