

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050917\  
 Data File : BF095029.D  
 Acq On : 9 May 2017 19:04  
 Operator : SJ/MA  
 Sample : I3014-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RAV-RMW-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-BF050217.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         | 5.013       | 520           | 523         | 536          | rBV      | 28980          | 65880         | 2.16%           | 0.339%        |
| 2         | 5.648       | 628           | 631         | 661          | rBV      | 463282         | 1014323       | 33.31%          | 5.218%        |
| 3         | 7.248       | 900           | 903         | 919          | rBV      | 268598         | 598884        | 19.67%          | 3.081%        |
| 4         | 7.366       | 919           | 923         | 933          | rVB      | 1507753        | 2119349       | 69.60%          | 10.903%       |
| 5         | 7.707       | 977           | 981         | 993          | rVB      | 413577         | 503169        | 16.52%          | 2.589%        |
| 6         | 7.942       | 1016          | 1021        | 1038         | rBV      | 1446271        | 1824572       | 59.92%          | 9.386%        |
| 7         | 8.607       | 1129          | 1134        | 1153         | rBV      | 1116498        | 1579023       | 51.86%          | 8.123%        |
| 8         | 9.730       | 1321          | 1325        | 1343         | rBV      | 459552         | 659600        | 21.66%          | 3.393%        |
| 9         | 11.507      | 1621          | 1627        | 1644         | rBV      | 2235450        | 2890462       | 94.92%          | 14.870%       |
| 10        | 12.201      | 1741          | 1745        | 1755         | rBV      | 53384          | 77967         | 2.56%           | 0.401%        |
| 11        | 12.560      | 1801          | 1806        | 1822         | rBV2     | 525252         | 743986        | 24.43%          | 3.827%        |
| 12        | 13.736      | 2002          | 2006        | 2014         | rBV      | 79709          | 104518        | 3.43%           | 0.538%        |
| 13        | 13.854      | 2020          | 2026        | 2048         | rBV      | 1207199        | 1742694       | 57.23%          | 8.965%        |
| 14        | 14.177      | 2076          | 2081        | 2091         | rBV4     | 19659          | 31296         | 1.03%           | 0.161%        |
| 15        | 14.960      | 2210          | 2214        | 2229         | rVB2     | 567245         | 763498        | 25.07%          | 3.928%        |
| 16        | 15.924      | 2374          | 2378        | 2385         | rBV2     | 111552         | 150207        | 4.93%           | 0.773%        |
| 17        | 17.018      | 2559          | 2564        | 2576         | rBV      | 139300         | 215236        | 7.07%           | 1.107%        |
| 18        | 17.289      | 2604          | 2610        | 2614         | rBV      | 2534767        | 3045036       | 100.00%         | 15.665%       |
| 19        | 18.559      | 2819          | 2826        | 2833         | rBV7     | 16529          | 45914         | 1.51%           | 0.236%        |
| 20        | 18.630      | 2833          | 2838        | 2846         | rBV      | 542414         | 714697        | 23.47%          | 3.677%        |
| 21        | 20.294      | 3116          | 3121        | 3132         | rBV      | 393744         | 548246        | 18.00%          | 2.820%        |

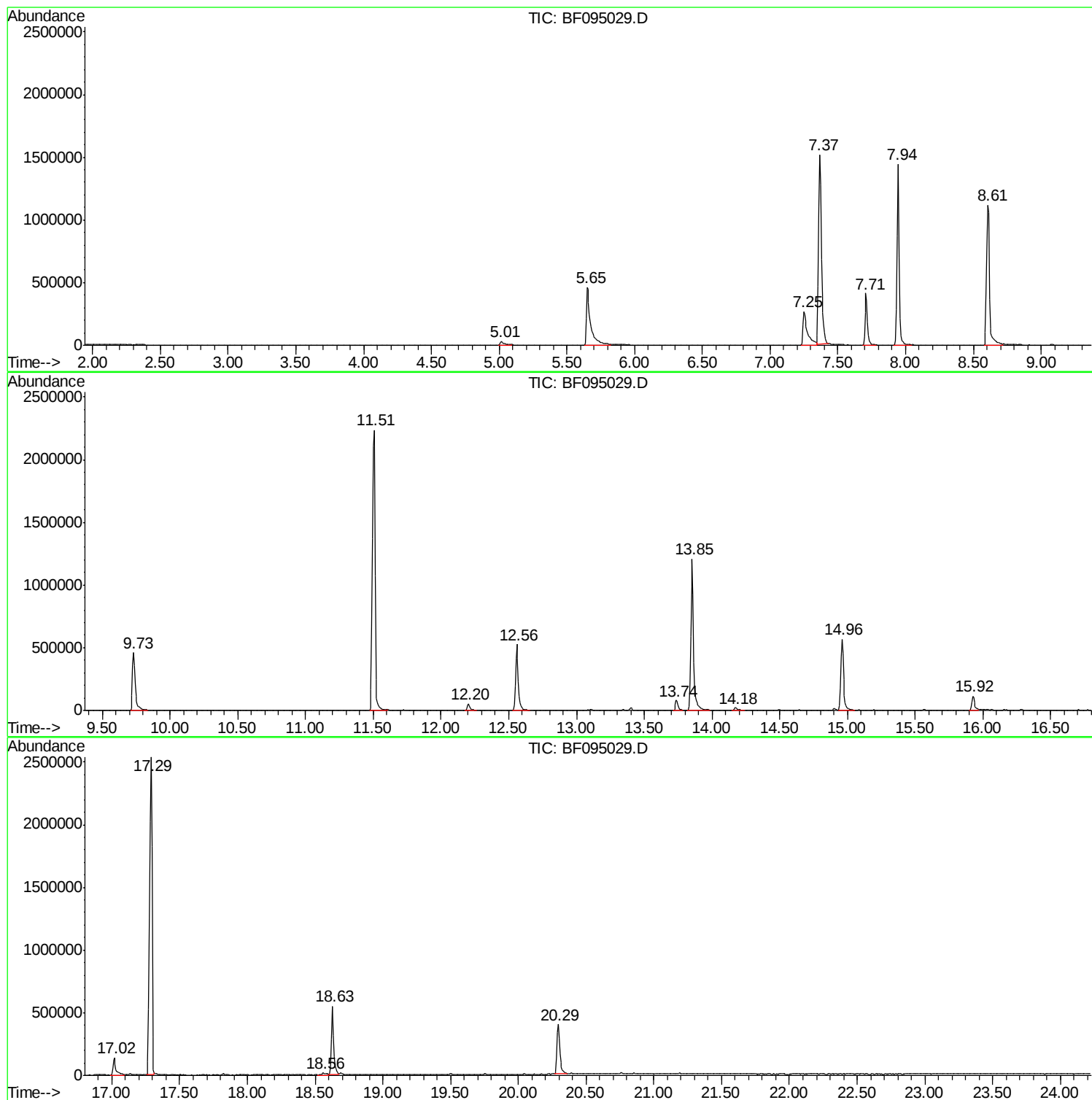
Sum of corrected areas: 19438557

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050917\  
Data File : BF095029.D  
Acq On : 9 May 2017 19:04  
Operator : SJ/MA  
Sample : I3014-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAV-RMW-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050917\  
Data File : BF095029.D  
Acq On : 9 May 2017 19:04  
Operator : SJ/MA  
Sample : I3014-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAV-RMW-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

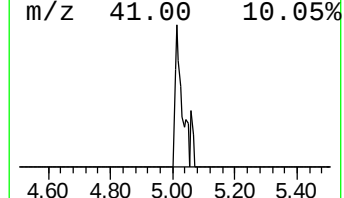
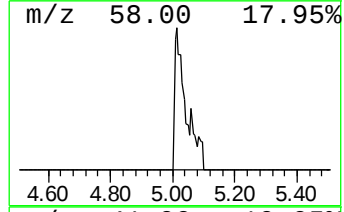
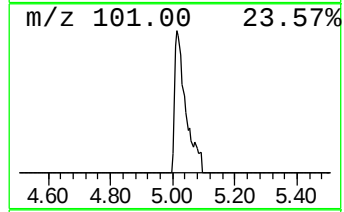
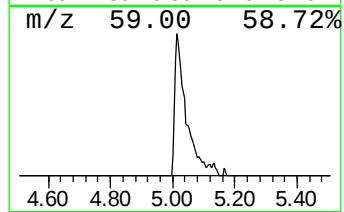
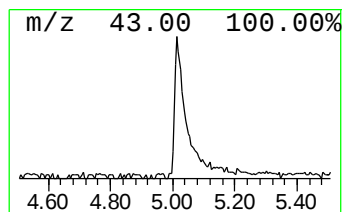
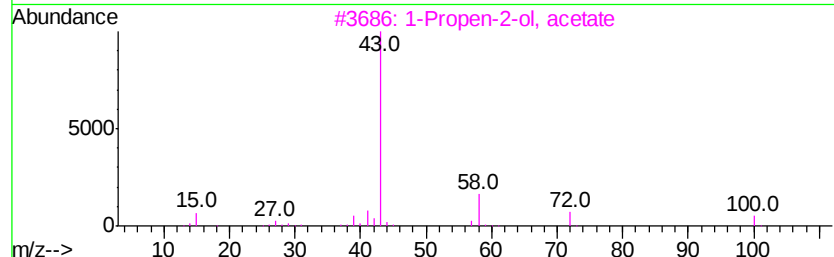
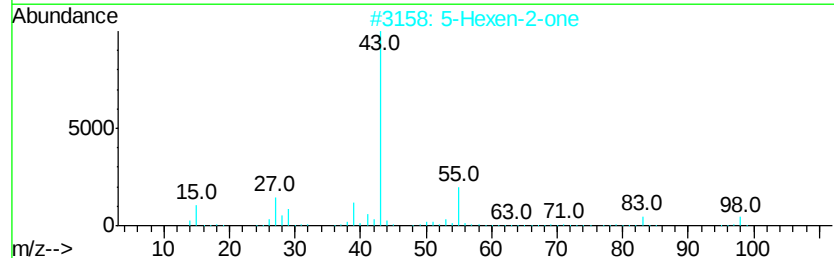
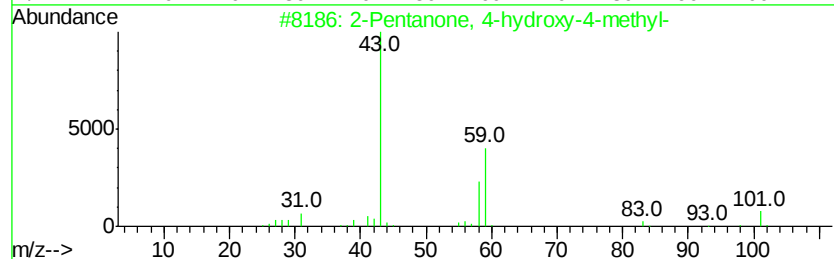
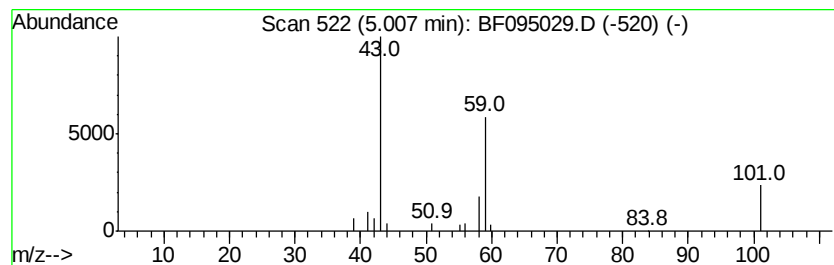
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.01 | 2.62 ng | 65880 | 1,4-Dichlorobenzene-d4 | 7.71 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 40   |
| 2    |    | 5-Hexen-2-one                    | 98  | C6H10O  | 000109-49-9 | 9    |
| 3    |    | 1-Propen-2-ol, acetate           | 100 | C5H8O2  | 000108-22-5 | 9    |
| 4    |    | 2-Nonanone                       | 142 | C9H18O  | 000821-55-6 | 9    |
| 5    |    | 4-Penten-2-one, 4-methyl-        | 98  | C6H10O  | 003744-02-3 | 7    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050917\  
Data File : BF095029.D  
Acq On : 9 May 2017 19:04  
Operator : SJ/MA  
Sample : I3014-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAV-RMW-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

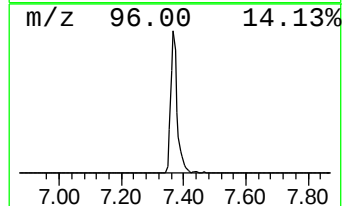
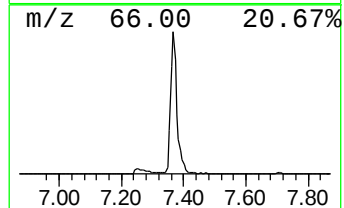
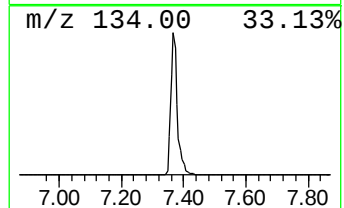
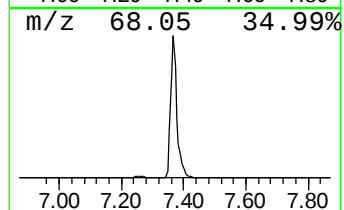
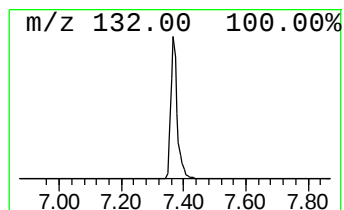
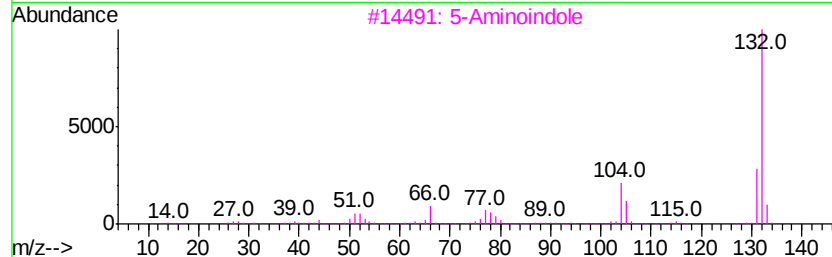
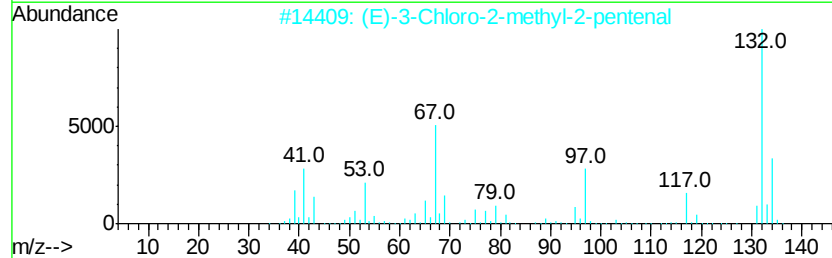
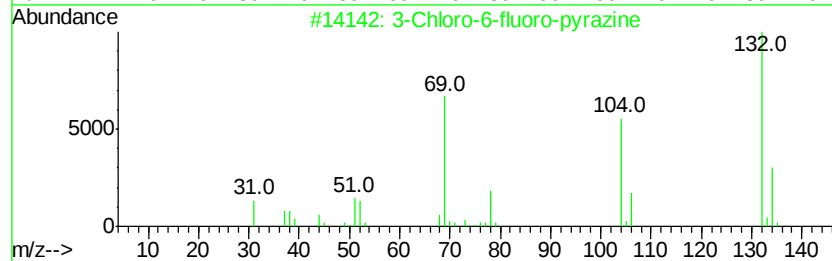
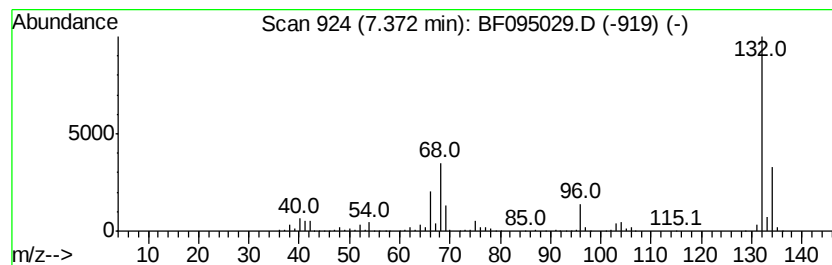
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown7.37 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.37 | 84.24 ng | 2119350 | 1,4-Dichlorobenzene-d4 | 7.71 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050917\  
Data File : BF095029.D  
Acq On : 9 May 2017 19:04  
Operator : SJ/MA  
Sample : I3014-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAV-RMW-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

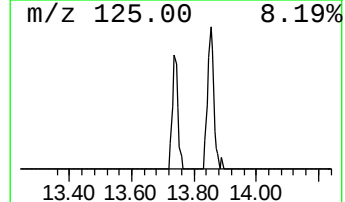
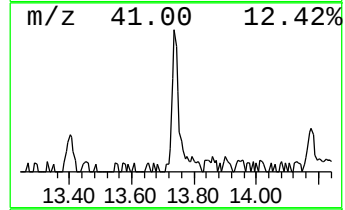
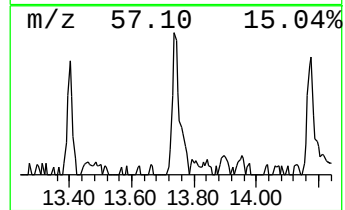
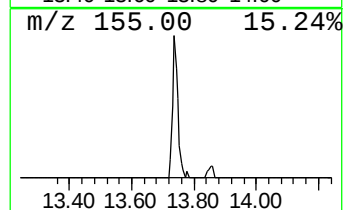
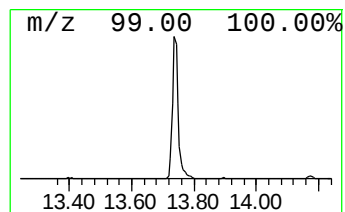
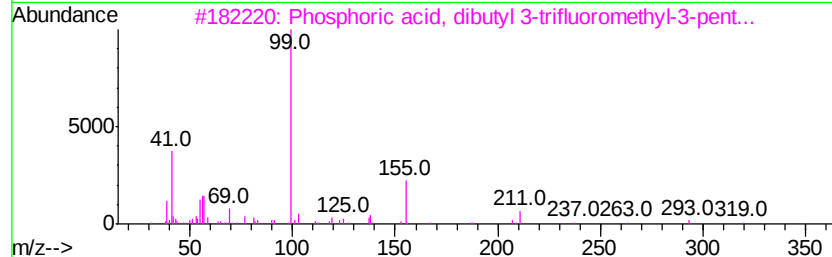
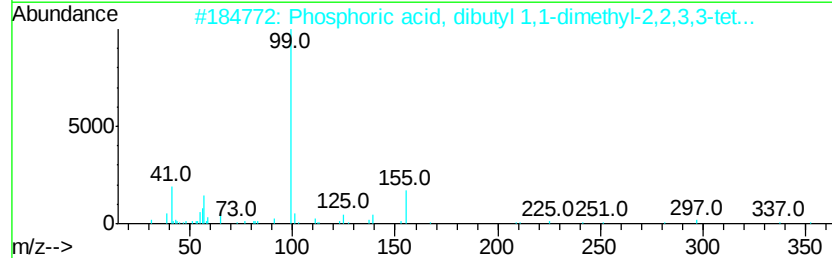
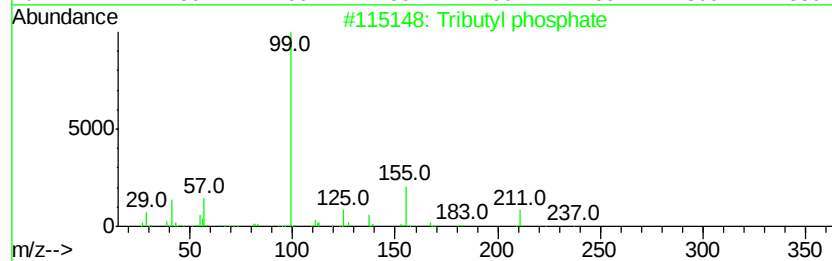
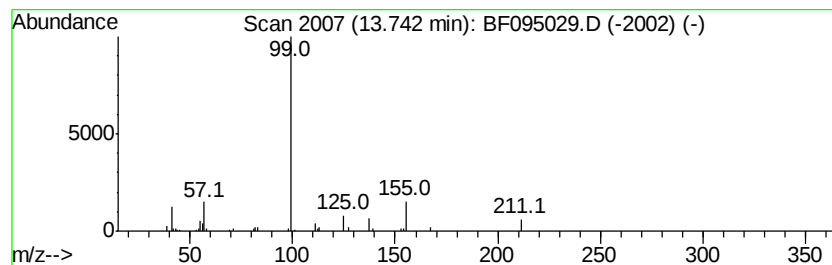
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Tributyl phosphate Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.74 | 2.81 ng | 104518 | Acenaphthene-d10 | 12.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Tributyl phosphate                  | 266 | C12H27O4P   | 000126-73-8  | 87   |
| 2    |    | Phosphoric acid, dibutyl 1,1-dim... | 352 | C13H25F4O4P | 1000298-93-9 | 72   |
| 3    |    | Phosphoric acid, dibutyl 3-trifl... | 348 | C14H28F3O4P | 1000298-93-8 | 40   |
| 4    |    | 2H-Pyran-2-one, 6-hexyltetrahydro-  | 184 | C11H20O2    | 000710-04-3  | 38   |
| 5    |    | Phosphoric acid, dipropyl octyl ... | 294 | C14H31O4P   | 1000308-96-4 | 36   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050917\  
Data File : BF095029.D  
Acq On : 9 May 2017 19:04  
Operator : SJ/MA  
Sample : I3014-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAV-RMW-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

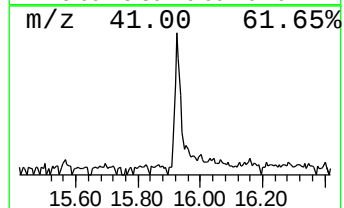
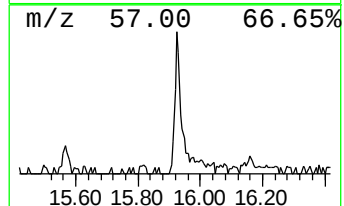
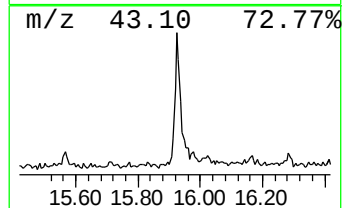
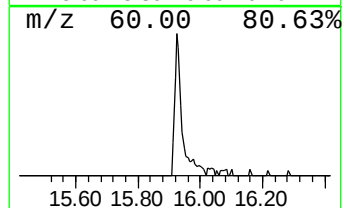
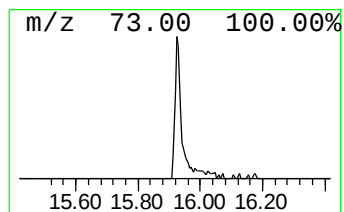
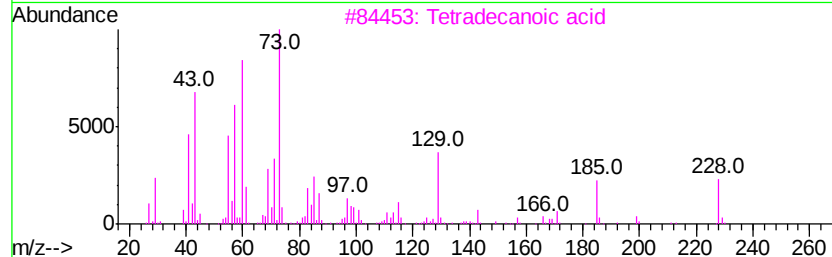
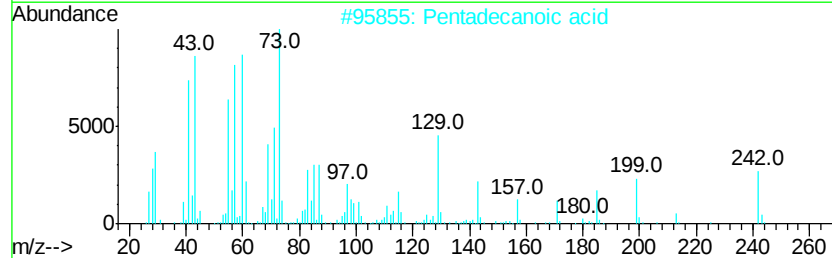
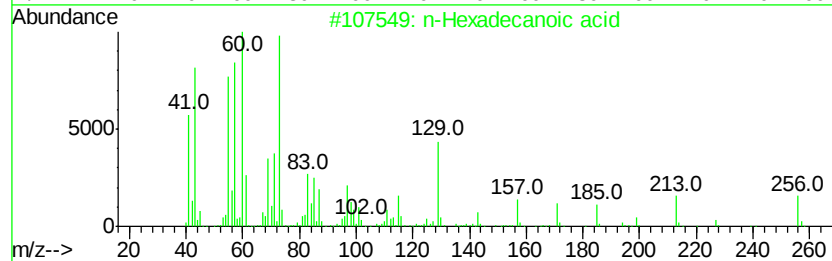
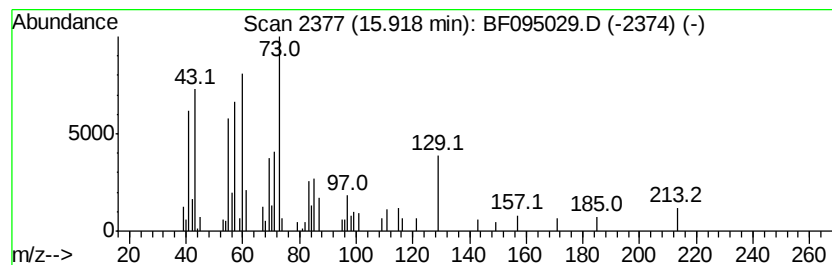
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.92 | 3.93 ng | 150207 | Phenanthrene-d10 | 14.96 |

| Hit# of | 5 | Tentative ID                       | MW  | MolForm  | CAS#         | Qual |
|---------|---|------------------------------------|-----|----------|--------------|------|
| 1       |   | n-Hexadecanoic acid                | 256 | C16H32O2 | 000057-10-3  | 96   |
| 2       |   | Pentadecanoic acid                 | 242 | C15H30O2 | 001002-84-2  | 91   |
| 3       |   | Tetradecanoic acid                 | 228 | C14H28O2 | 000544-63-8  | 83   |
| 4       |   | Dodecanoic acid                    | 200 | C12H24O2 | 000143-07-7  | 52   |
| 5       |   | Oxalic acid, allyl hexadecyl ester | 354 | C21H38O4 | 1000309-24-4 | 30   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050917\  
Data File : BF095029.D  
Acq On : 9 May 2017 19:04  
Operator : SJ/MA  
Sample : I3014-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

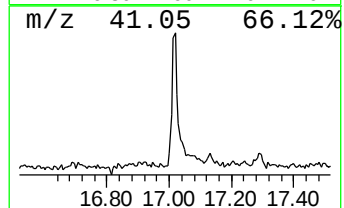
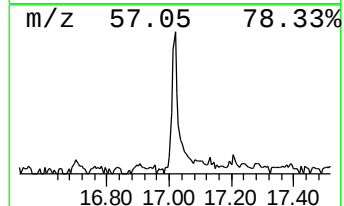
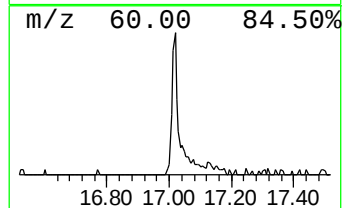
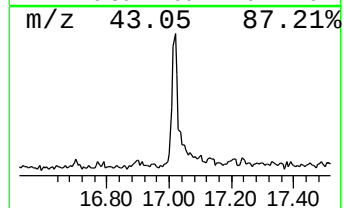
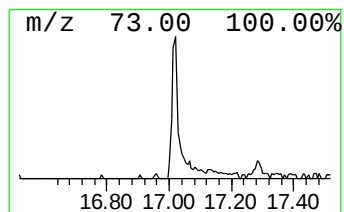
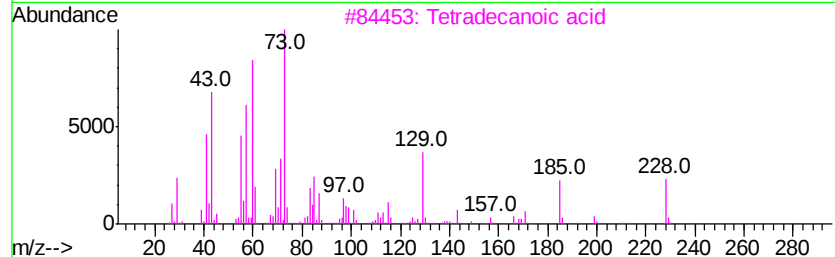
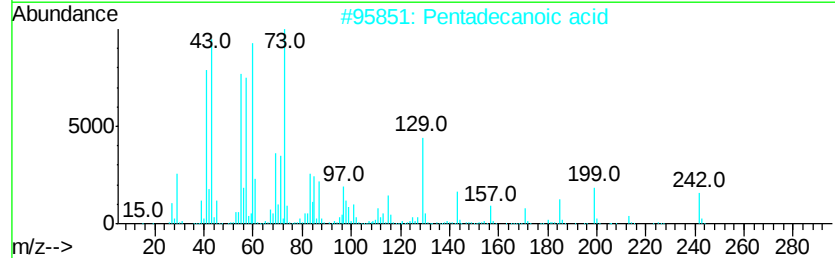
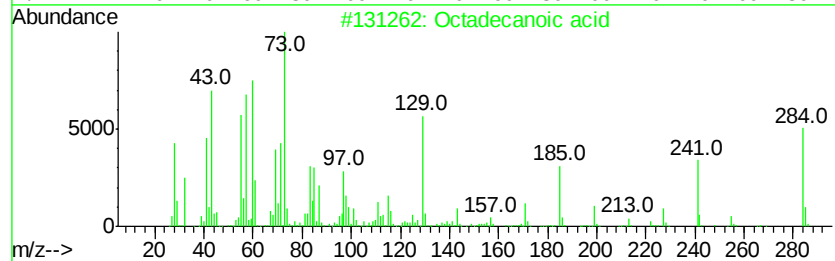
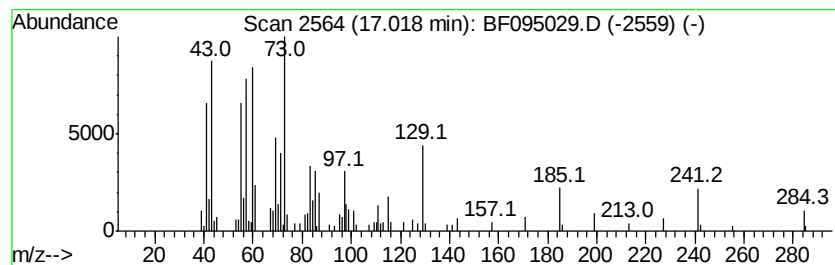
Instrument :  
BNA\_F  
ClientSampleId :  
RAV-RMW-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 Octadecanoic acid Concentration Rank 3

| R.T.      | EstConc                              | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------------------|--------|------------------|-------------|------|
| 17.02     | 6.02 ng                              | 215236 | Chrysene-d12     | 18.63       |      |
| Hit# of 5 | Tentative ID                         | MW     | MolForm          | CAS#        | Qual |
| 1         | Octadecanoic acid                    | 284    | C18H36O2         | 000057-11-4 | 99   |
| 2         | Pentadecanoic acid                   | 242    | C15H30O2         | 001002-84-2 | 89   |
| 3         | Tetradecanoic acid                   | 228    | C14H28O2         | 000544-63-8 | 83   |
| 4         | Octadecanoic acid, 2-(2-hydroxyve... | 372    | C22H44O4         | 000106-11-6 | 72   |
| 5         | Tridecanoic acid                     | 214    | C13H26O2         | 000638-53-9 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050917\  
Data File : BF095029.D  
Acq On : 9 May 2017 19:04  
Operator : SJ/MA  
Sample : I3014-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RAV-RMW-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.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... | 5.01  | 2.6     | ng    | 65880    | 1                     | 7.71  | 503169 | 20.0 |
| unknown7.37          | 7.37  | 84.2    | ng    | 2119350  | 1                     | 7.71  | 503169 | 20.0 |
| Tributyl phosphate   | 13.74 | 2.8     | ng    | 104518   | 3                     | 12.56 | 743986 | 20.0 |
| n-Hexadecanoic acid  | 15.92 | 3.9     | ng    | 150207   | 4                     | 14.96 | 763498 | 20.0 |
| Octadecanoic acid    | 17.02 | 6.0     | ng    | 215236   | 5                     | 18.63 | 714697 | 20.0 |