

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021517\  
 Data File : BF092973.D  
 Acq On : 16 Feb 2017 1:26  
 Operator : SJ/MA  
 Sample : I1850-05  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP21-COMP15

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-BF013017.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         | 3.813       | 144           | 151         | 154          | rBV2     | 19492          | 41686         | 1.00%           | 0.092%        |
| 2         | 5.047       | 256           | 259         | 268          | rBV      | 1161703        | 1785321       | 42.89%          | 3.955%        |
| 3         | 5.470       | 294           | 296         | 299          | rVB      | 3149106        | 4020747       | 96.60%          | 8.906%        |
| 4         | 6.510       | 384           | 387         | 390          | rBV      | 3077239        | 3976164       | 95.53%          | 8.808%        |
| 5         | 6.647       | 396           | 399         | 401          | rBV      | 2974376        | 4162103       | 100.00%         | 9.219%        |
| 6         | 6.704       | 401           | 404         | 410          | rVB3     | 38599          | 64019         | 1.54%           | 0.142%        |
| 7         | 6.876       | 416           | 419         | 421          | rBV      | 792034         | 1017265       | 24.44%          | 2.253%        |
| 8         | 7.025       | 430           | 432         | 435          | rBV      | 2471831        | 3164220       | 76.02%          | 7.009%        |
| 9         | 7.436       | 465           | 468         | 470          | rBV      | 1922348        | 2595887       | 62.37%          | 5.750%        |
| 10        | 7.539       | 473           | 477         | 484          | rVB      | 48076          | 101539        | 2.44%           | 0.225%        |
| 11        | 8.156       | 529           | 531         | 535          | rVB2     | 1482242        | 1435776       | 34.50%          | 3.180%        |
| 12        | 9.230       | 622           | 625         | 628          | rBV      | 3799221        | 3713931       | 89.23%          | 8.227%        |
| 13        | 9.345       | 633           | 635         | 637          | rVB2     | 38834          | 51763         | 1.24%           | 0.115%        |
| 14        | 9.630       | 657           | 660         | 662          | rVB      | 933031         | 979618        | 23.54%          | 2.170%        |
| 15        | 9.768       | 670           | 672         | 674          | rBV      | 53252          | 47003         | 1.13%           | 0.104%        |
| 16        | 9.836       | 674           | 678         | 682          | rVV2     | 80611          | 148264        | 3.56%           | 0.328%        |
| 17        | 9.905       | 682           | 684         | 686          | rVV      | 1521893        | 1337846       | 32.14%          | 2.963%        |
| 18        | 9.939       | 686           | 687         | 689          | rVB      | 306253         | 223927        | 5.38%           | 0.496%        |
| 19        | 10.111      | 700           | 702         | 704          | rBV      | 62454          | 63367         | 1.52%           | 0.140%        |
| 20        | 10.339      | 718           | 722         | 723          | rVB      | 83492          | 130206        | 3.13%           | 0.288%        |
| 21        | 10.453      | 730           | 732         | 734          | rVB      | 72946          | 77922         | 1.87%           | 0.173%        |
| 22        | 10.556      | 735           | 741         | 744          | rBV3     | 41320          | 124966        | 3.00%           | 0.277%        |
| 23        | 10.693      | 750           | 753         | 756          | rBV      | 2025521        | 2109855       | 50.69%          | 4.674%        |
| 24        | 10.808      | 761           | 763         | 767          | rVB      | 147105         | 182331        | 4.38%           | 0.404%        |
| 25        | 11.002      | 777           | 780         | 781          | rVV      | 37792          | 46873         | 1.13%           | 0.104%        |
| 26        | 11.082      | 784           | 787         | 789          | rVB3     | 22136          | 48885         | 1.17%           | 0.108%        |
| 27        | 11.128      | 789           | 791         | 794          | rBV3     | 26341          | 43765         | 1.05%           | 0.097%        |
| 28        | 11.254      | 799           | 802         | 804          | rBV      | 119733         | 148395        | 3.57%           | 0.329%        |
| 29        | 11.288      | 804           | 805         | 807          | rVB      | 57532          | 45789         | 1.10%           | 0.101%        |
| 30        | 11.391      | 812           | 814         | 815          | rBV      | 1292383        | 1227917       | 29.50%          | 2.720%        |
| 31        | 11.459      | 818           | 820         | 822          | rVB      | 129373         | 152554        | 3.67%           | 0.338%        |
| 32        | 11.494      | 822           | 823         | 825          | rBV2     | 31934          | 49080         | 1.18%           | 0.109%        |
| 33        | 11.619      | 831           | 834         | 835          | rBV2     | 160660         | 267469        | 6.43%           | 0.592%        |
| 34        | 11.676      | 838           | 839         | 841          | rVV      | 69773          | 88479         | 2.13%           | 0.196%        |

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 BNA\_F  
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 TP21-COMP15

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-BF013017.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.779 | 846  | 848  | 851  | rVV3 | 65423   | 126424  | 3.04%  | 0.280% |
| 36 | 11.848 | 851  | 854  | 855  | rVV2 | 41183   | 70569   | 1.70%  | 0.156% |
| 37 | 11.882 | 855  | 857  | 859  | rVV  | 61258   | 113907  | 2.74%  | 0.252% |
| 38 | 11.916 | 859  | 860  | 861  | rVV  | 135919  | 116491  | 2.80%  | 0.258% |
| 39 | 11.974 | 861  | 865  | 866  | rVV3 | 91760   | 214190  | 5.15%  | 0.474% |
| 40 | 11.996 | 866  | 867  | 871  | rVV2 | 123528  | 267022  | 6.42%  | 0.591% |
| 41 | 12.088 | 873  | 875  | 877  | rVV3 | 69598   | 103045  | 2.48%  | 0.228% |
| 42 | 12.168 | 878  | 882  | 885  | rVB3 | 125847  | 271557  | 6.52%  | 0.602% |
| 43 | 12.339 | 894  | 897  | 899  | rBV3 | 77496   | 163791  | 3.94%  | 0.363% |
| 44 | 12.454 | 905  | 907  | 910  | rVB3 | 48602   | 76164   | 1.83%  | 0.169% |
| 45 | 12.602 | 917  | 920  | 922  | rBV  | 658791  | 606953  | 14.58% | 1.344% |
| 46 | 12.637 | 922  | 923  | 926  | rVB3 | 134938  | 144343  | 3.47%  | 0.320% |
| 47 | 12.831 | 937  | 940  | 942  | rBV  | 558665  | 701798  | 16.86% | 1.555% |
| 48 | 12.888 | 943  | 945  | 948  | rVB  | 89493   | 116066  | 2.79%  | 0.257% |
| 49 | 12.979 | 950  | 953  | 955  | rVV  | 1954391 | 2786269 | 66.94% | 6.172% |
| 50 | 13.048 | 957  | 959  | 961  | rBV2 | 34748   | 52762   | 1.27%  | 0.117% |
| 51 | 13.105 | 962  | 964  | 966  | rVV  | 319971  | 309991  | 7.45%  | 0.687% |
| 52 | 13.162 | 966  | 969  | 970  | rVB2 | 87861   | 137165  | 3.30%  | 0.304% |
| 53 | 13.219 | 970  | 974  | 975  | rBV2 | 76031   | 85770   | 2.06%  | 0.190% |
| 54 | 13.254 | 975  | 977  | 981  | rVB3 | 79621   | 124094  | 2.98%  | 0.275% |
| 55 | 13.357 | 984  | 986  | 987  | rBV  | 43887   | 55937   | 1.34%  | 0.124% |
| 56 | 13.437 | 992  | 993  | 995  | rBV  | 78603   | 73898   | 1.78%  | 0.164% |
| 57 | 13.539 | 1000 | 1002 | 1004 | rBV3 | 68986   | 107822  | 2.59%  | 0.239% |
| 58 | 13.665 | 1011 | 1013 | 1015 | rVB  | 85571   | 93605   | 2.25%  | 0.207% |
| 59 | 13.871 | 1029 | 1031 | 1034 | rVB  | 193011  | 284263  | 6.83%  | 0.630% |
| 60 | 14.020 | 1041 | 1044 | 1049 | rBV3 | 864598  | 1429957 | 34.36% | 3.167% |
| 61 | 14.134 | 1051 | 1054 | 1055 | rVB2 | 51101   | 72305   | 1.74%  | 0.160% |
| 62 | 14.168 | 1055 | 1057 | 1060 | rBV2 | 34079   | 80523   | 1.93%  | 0.178% |
| 63 | 14.408 | 1076 | 1078 | 1080 | rBV  | 54775   | 57325   | 1.38%  | 0.127% |
| 64 | 14.500 | 1083 | 1086 | 1088 | rBV3 | 64481   | 136649  | 3.28%  | 0.303% |
| 65 | 15.048 | 1131 | 1134 | 1138 | rBV  | 276134  | 557872  | 13.40% | 1.236% |
| 66 | 15.151 | 1141 | 1143 | 1145 | rVB  | 65210   | 70547   | 1.69%  | 0.156% |
| 67 | 15.334 | 1157 | 1159 | 1162 | rVB  | 155989  | 230807  | 5.55%  | 0.511% |
| 68 | 15.402 | 1162 | 1165 | 1167 | rVV  | 264646  | 340422  | 8.18%  | 0.754% |
| 69 | 15.460 | 1167 | 1170 | 1176 | rVB  | 621950  | 897370  | 21.56% | 1.988% |
| 70 | 16.866 | 1290 | 1293 | 1297 | rBV2 | 100403  | 207309  | 4.98%  | 0.459% |
| 71 | 17.300 | 1328 | 1331 | 1335 | rVB  | 89760   | 184931  | 4.44%  | 0.410% |

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Misc :  
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Instrument :  
BNA\_F  
ClientSampleId :  
TP21-COMP15

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-BF013017.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

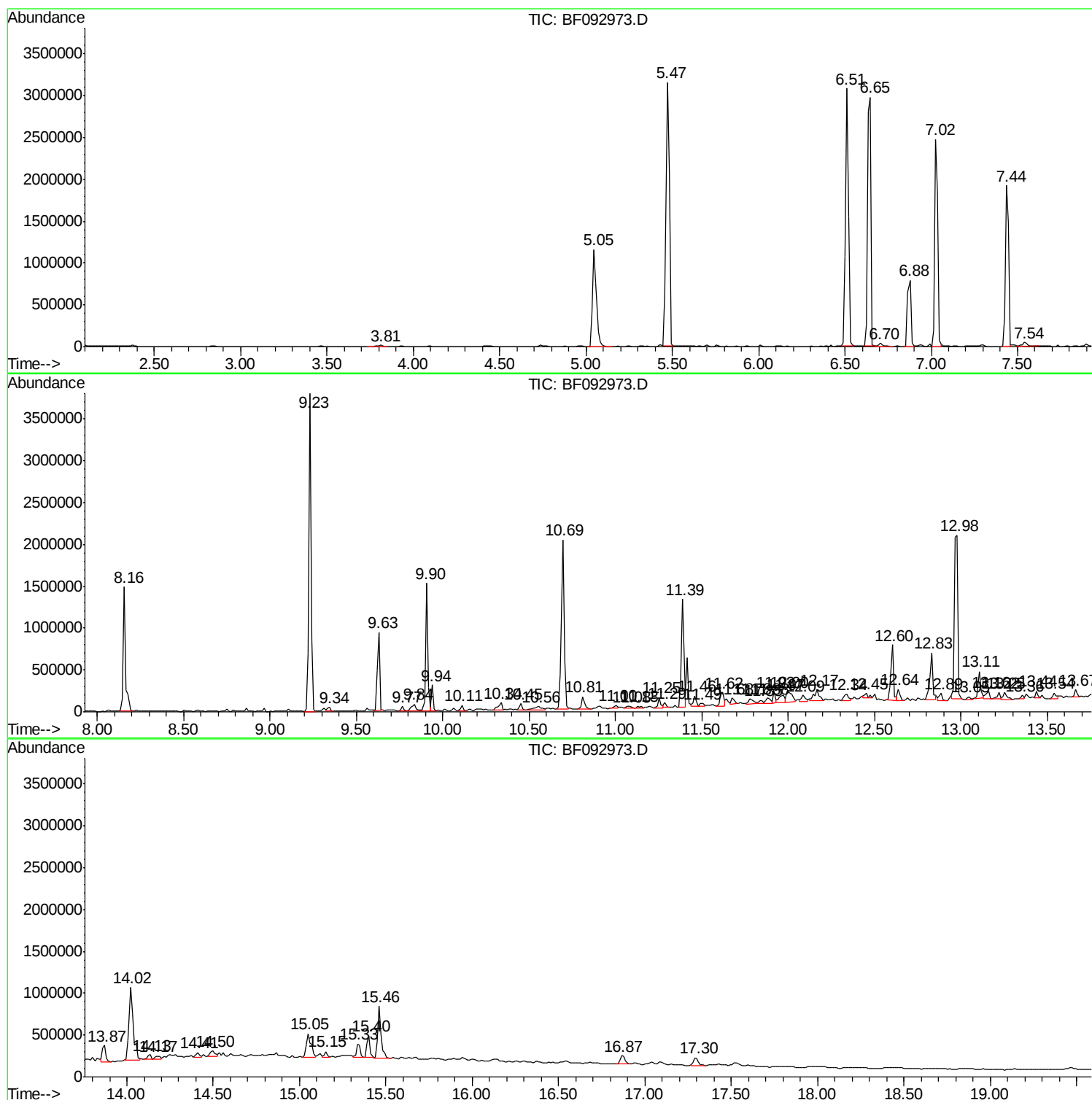
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Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021517\  
Data File : BF092973.D  
Acq On : 16 Feb 2017 1:26  
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Sample : I1850-05  
Misc :  
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Instrument :  
BNA\_F  
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TP21-COMP15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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Sample : I1850-05  
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Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

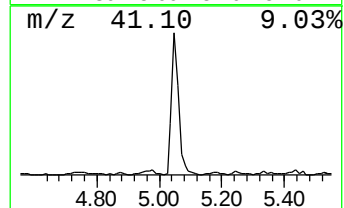
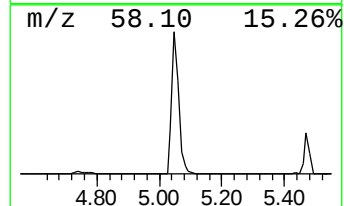
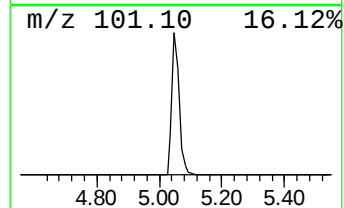
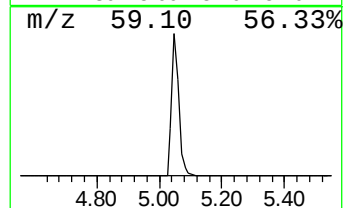
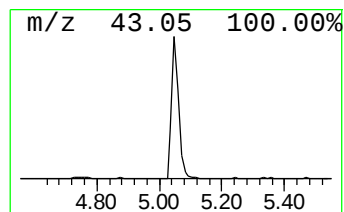
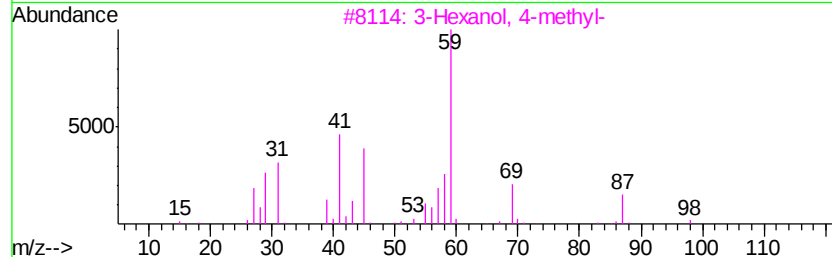
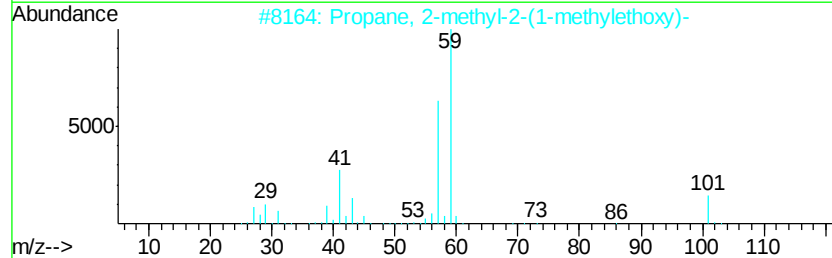
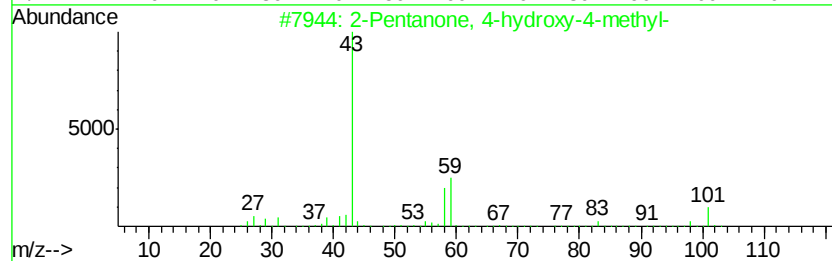
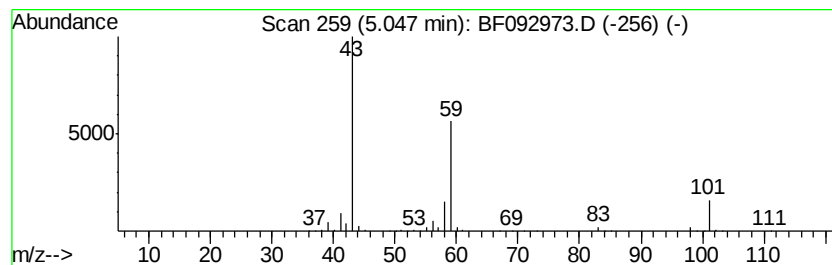
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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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. |
|------|----------|---------|------------------------|------|
| 5.05 | 35.10 ng | 1785320 | 1,4-Dichlorobenzene-d4 | 6.88 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------------------|-----|----------|-------------|------|
| 1       |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 45   |
| 2       |   | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O   | 017348-59-3 | 42   |
| 3       |   | 3-Hexanol, 4-methyl-                | 116 | C7H16O   | 000615-29-2 | 33   |
| 4       |   | 2-Hexanol, 2-methyl-                | 116 | C7H16O   | 000625-23-0 | 33   |
| 5       |   | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 32   |



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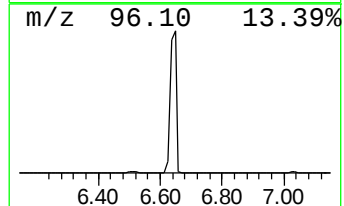
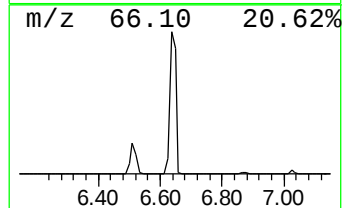
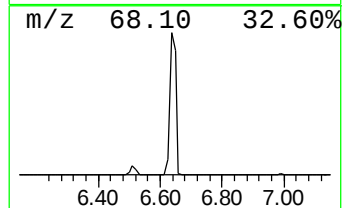
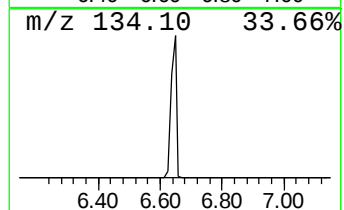
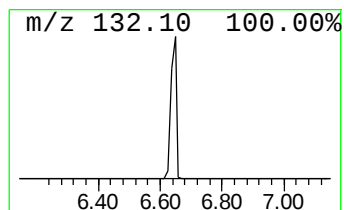
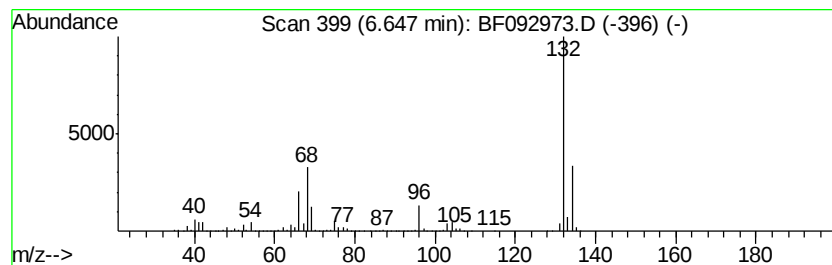
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.65 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.65 | 81.83 ng | 4162100 | 1,4-Dichlorobenzene-d4 | 6.88 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 38   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 25   |
| 3    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 16   |
| 4    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 9    |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |



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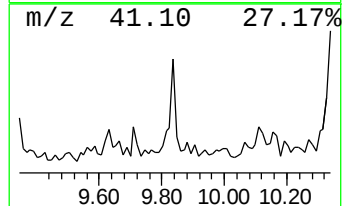
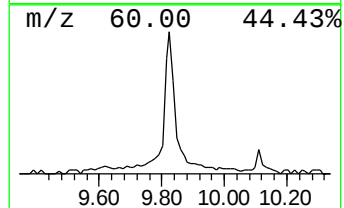
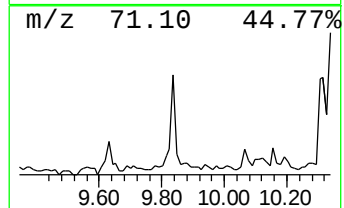
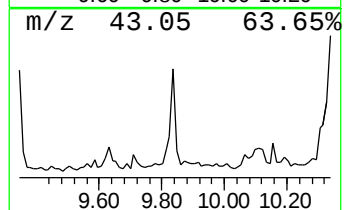
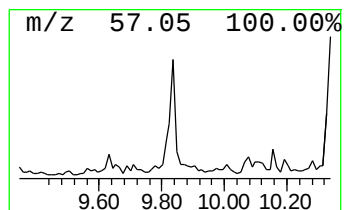
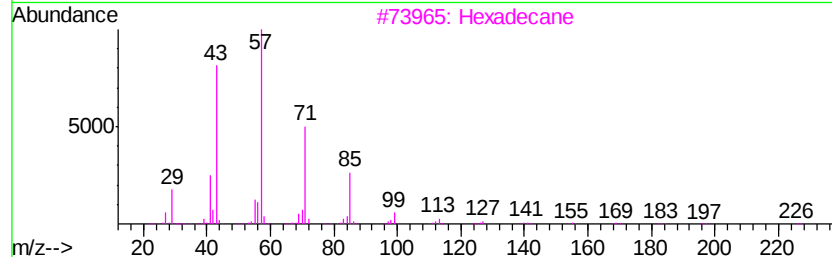
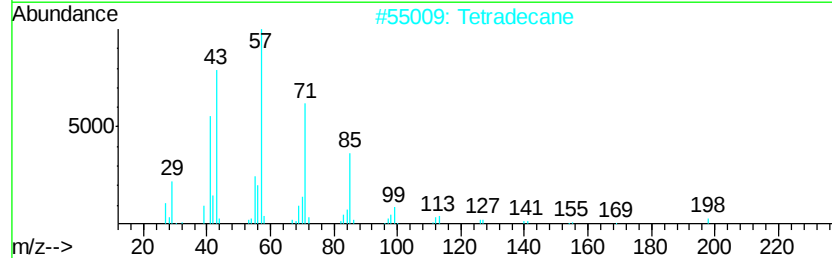
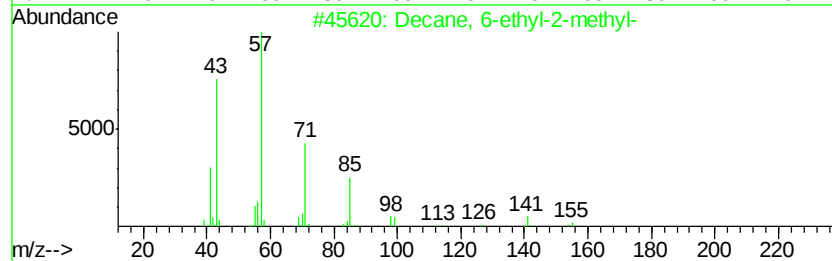
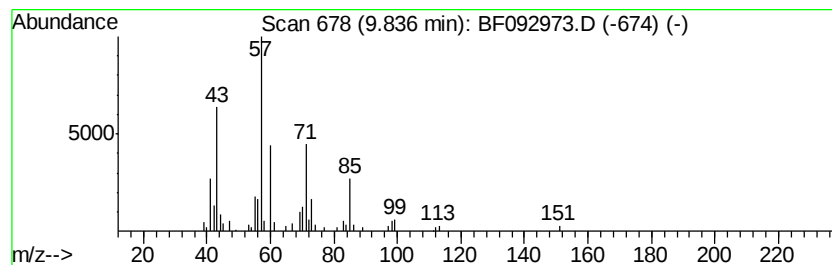
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 unknown9.84 Concentration Rank 14

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.84 | 2.22 ng | 148264 | Acenaphthene-d10 | 9.90 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Decane, 6-ethyl-2-methyl- | 184 | C13H28  | 062108-21-8 | 47   |
| 2    |    | Tetradecane               | 198 | C14H30  | 000629-59-4 | 47   |
| 3    |    | Hexadecane                | 226 | C16H34  | 000544-76-3 | 47   |
| 4    |    | Octane, 2,4,6-trimethyl-  | 156 | C11H24  | 062016-37-9 | 47   |
| 5    |    | Decane, 2,9-dimethyl-     | 170 | C12H26  | 001002-17-1 | 43   |



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Operator : SJ/MA  
Sample : I1850-05  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP21-COMP15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

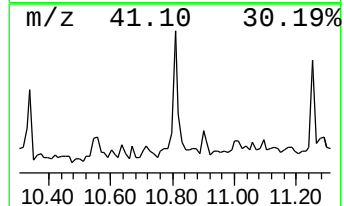
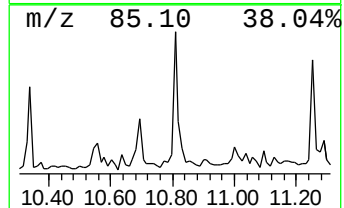
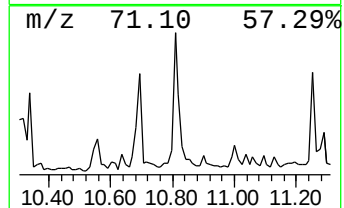
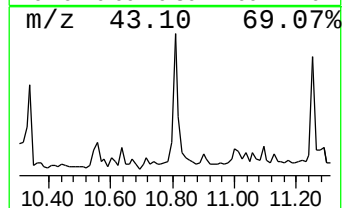
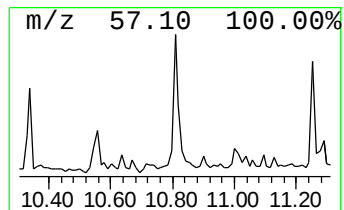
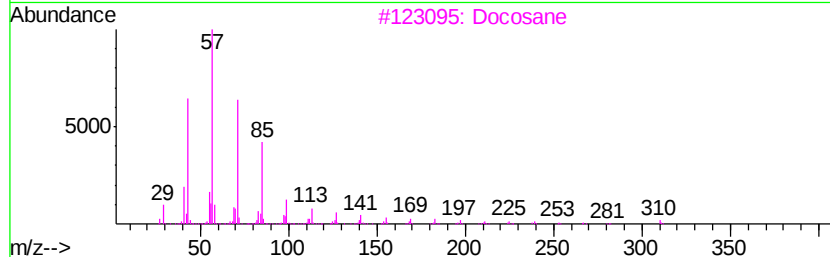
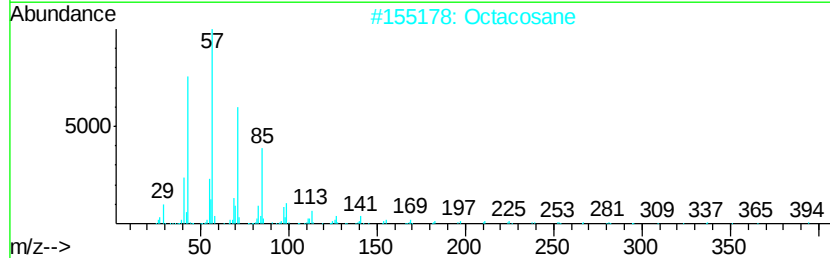
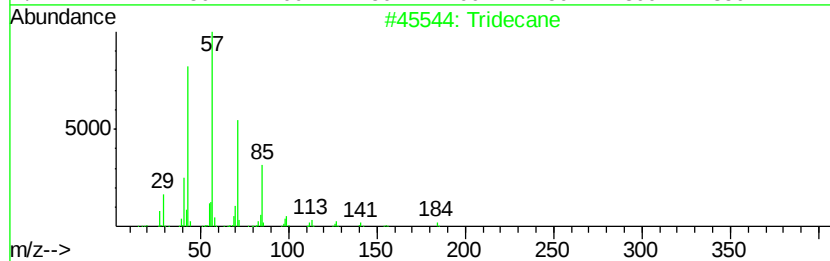
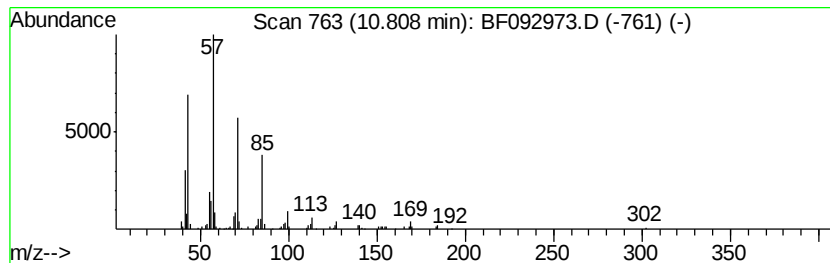
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Tridecane Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.81 | 2.97 ng | 182331 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane         | 184 | C13H28  | 000629-50-5 | 95   |
| 2    |    | Octacosane        | 394 | C28H58  | 000630-02-4 | 90   |
| 3    |    | Docosane          | 310 | C22H46  | 000629-97-0 | 90   |
| 4    |    | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 87   |
| 5    |    | Hexadecane        | 226 | C16H34  | 000544-76-3 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021517\  
Data File : BF092973.D  
Acq On : 16 Feb 2017 1:26  
Operator : SJ/MA  
Sample : I1850-05  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

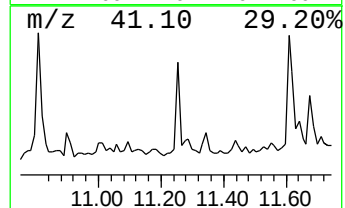
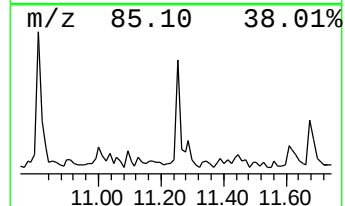
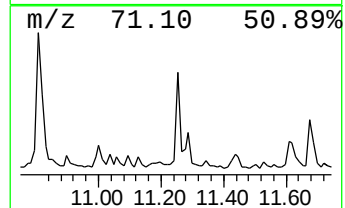
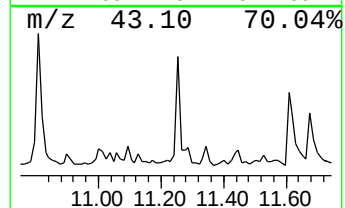
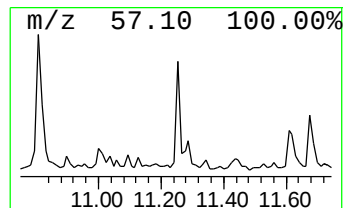
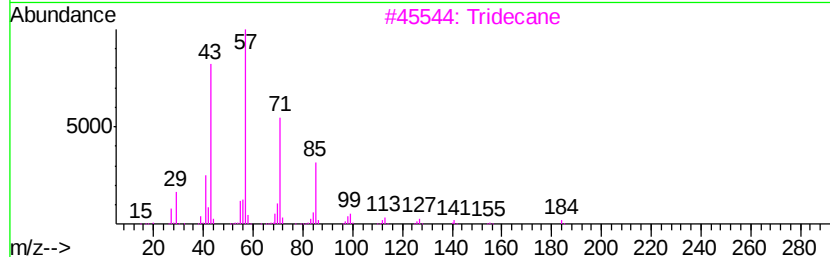
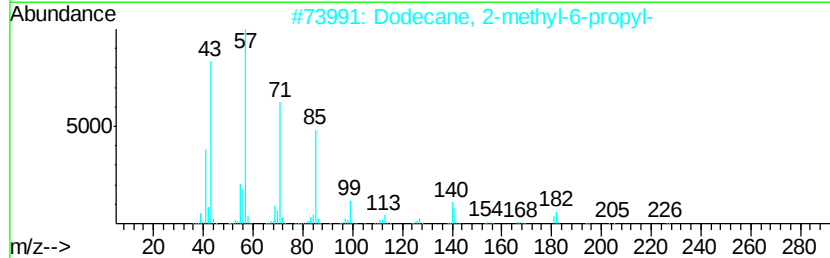
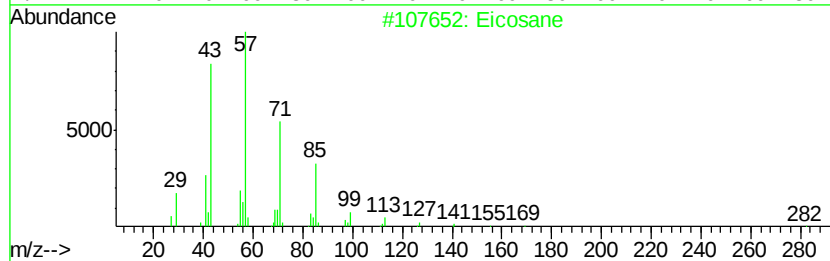
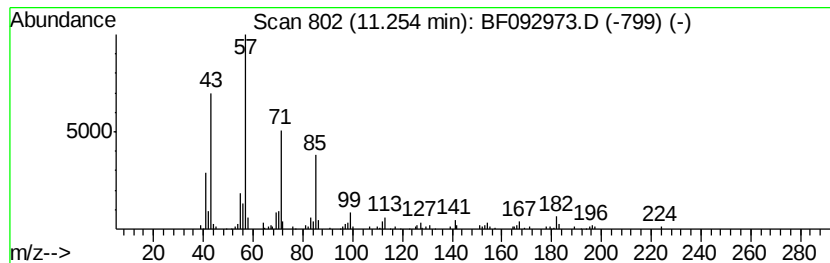
Instrument :  
BNA\_F  
ClientSampleId :  
TP21-COMP15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Eicosane Concentration Rank 13

| R.T.    | EstConc                      | Area         | Relative to ISTD | R.T.      |
|---------|------------------------------|--------------|------------------|-----------|
| 11.25   | 2.42 ng                      | 148395       | Phenanthrene-d10 | 11.39     |
| Hit# of | 5                            | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Eicosane                     | 282 C20H42   | 000112-95-8      | 74        |
| 2       | Dodecane, 2-methyl-6-propyl- | 226 C16H34   | 055045-08-4      | 72        |
| 3       | Tridecane                    | 184 C13H28   | 000629-50-5      | 72        |
| 4       | Tetradecane                  | 198 C14H30   | 000629-59-4      | 72        |
| 5       | Pentadecane                  | 212 C15H32   | 000629-62-9      | 72        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021517\  
Data File : BF092973.D  
Acq On : 16 Feb 2017 1:26  
Operator : SJ/MA  
Sample : I1850-05  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

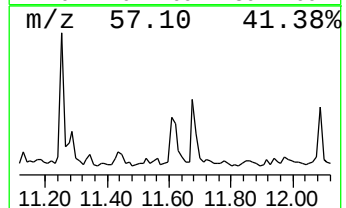
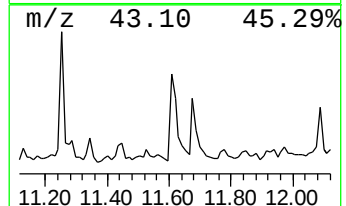
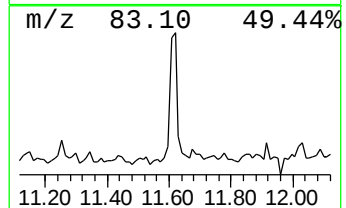
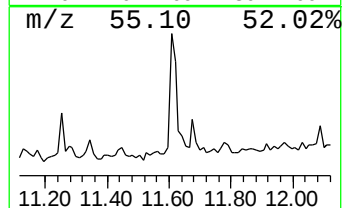
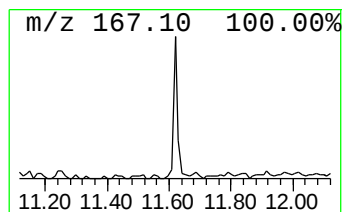
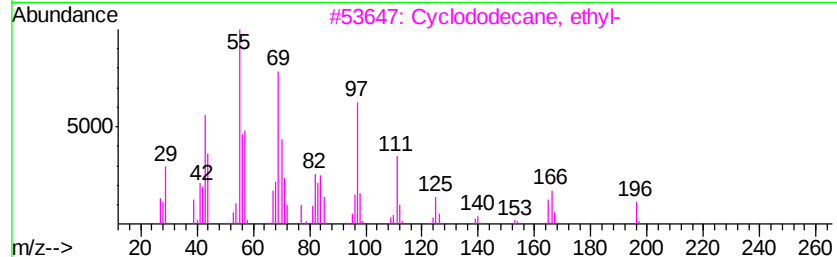
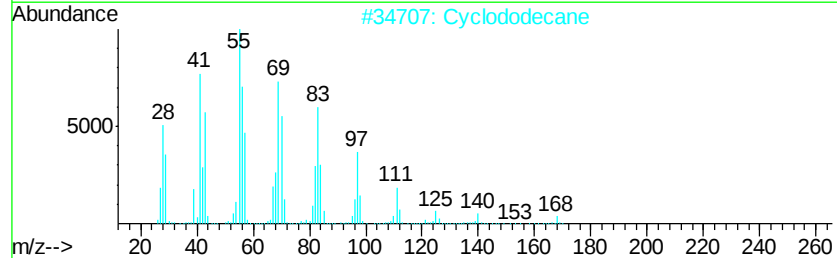
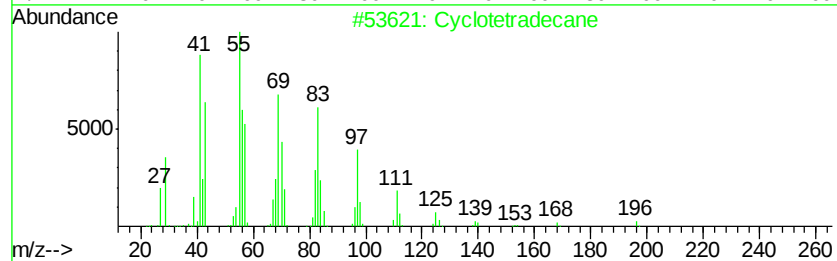
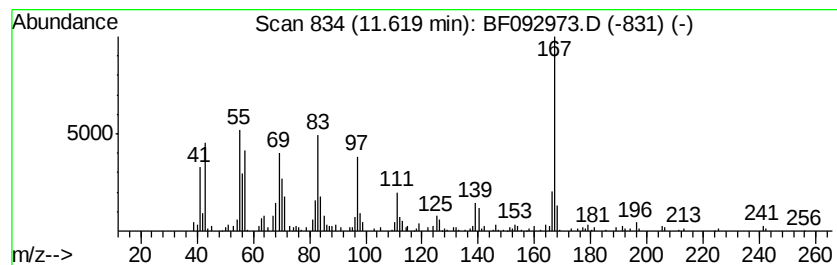
Instrument :  
BNA\_F  
ClientSampleId :  
TP21-COMP15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Cyclotetradecane Concentration Rank 6

| R.T.      | EstConc               | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------------|--------|------------------|-------------|-------|
| 11.62     | 4.36 ng               | 267469 | Phenanthrene-d10 |             | 11.39 |
| Hit# of 5 | Tentative ID          | MW     | MolForm          | CAS#        | Qual  |
| 1         | Cyclotetradecane      | 196    | C14H28           | 000295-17-0 | 94    |
| 2         | Cyclododecane         | 168    | C12H24           | 000294-62-2 | 47    |
| 3         | Cyclododecane, ethyl- | 196    | C14H28           | 028981-49-9 | 47    |
| 4         | 2-Azafluorene         | 167    | C12H9N           | 000244-40-6 | 45    |
| 5         | Carbazole             | 167    | C12H9N           | 000086-74-8 | 45    |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021517\  
Data File : BF092973.D  
Acq On : 16 Feb 2017 1:26  
Operator : SJ/MA  
Sample : I1850-05  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP21-COMP15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

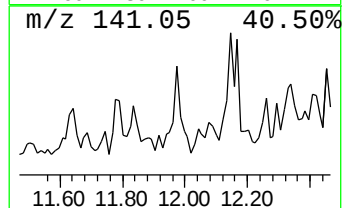
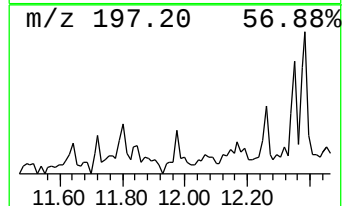
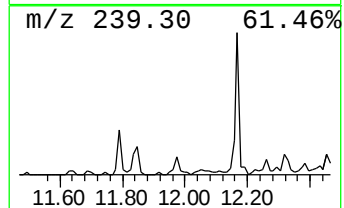
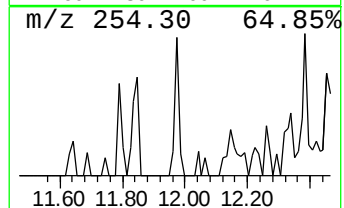
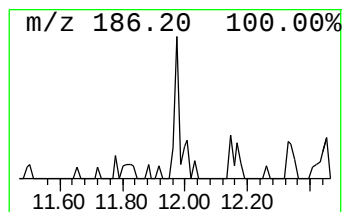
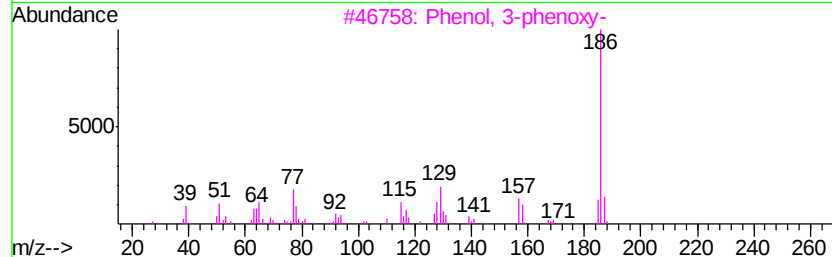
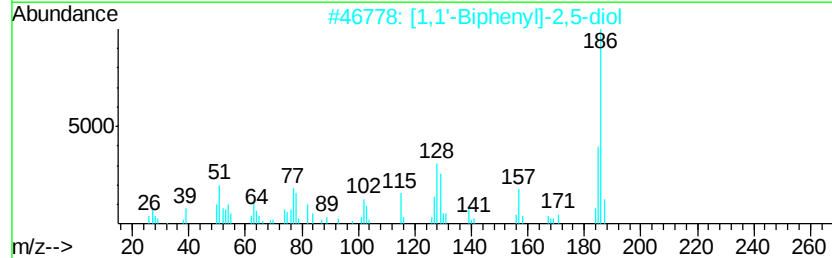
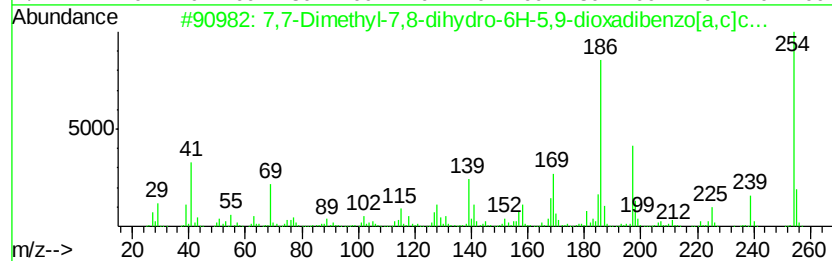
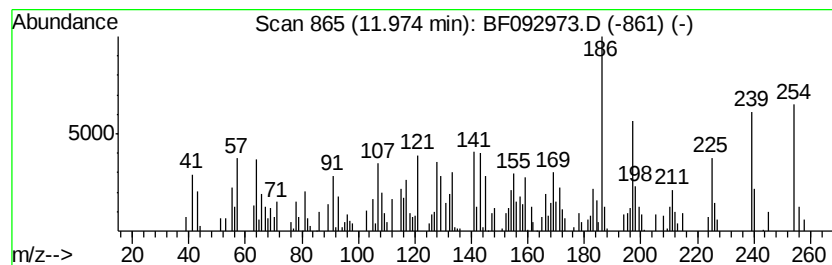
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 unknown11.97 Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.97 | 3.49 ng | 214190 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID                          | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 7,7-Dimethyl-7,8-dihydro-6H-5,9-...   | 254 | C17H18O2 | 161895-54-1 | 38   |
| 2    |    | [1,1'-Biphenyl]-2,5-diol              | 186 | C12H10O2 | 001079-21-6 | 25   |
| 3    |    | Phenol, 3-phenoxy-                    | 186 | C12H10O2 | 000713-68-8 | 25   |
| 4    |    | Phenanthrene, 1,2,3,4,5,6,7,8-octa... | 186 | C14H18   | 005325-97-3 | 25   |
| 5    |    | Anthracene, 1,2,3,4,5,6,7,8-octa...   | 186 | C14H18   | 001079-71-6 | 20   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021517\  
Data File : BF092973.D  
Acq On : 16 Feb 2017 1:26  
Operator : SJ/MA  
Sample : I1850-05  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP21-COMP15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

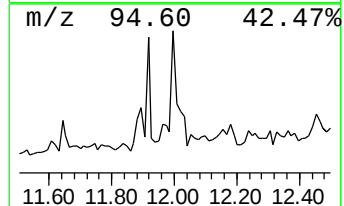
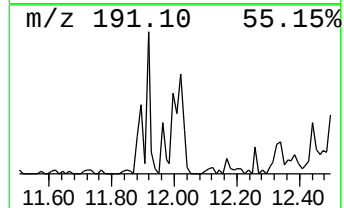
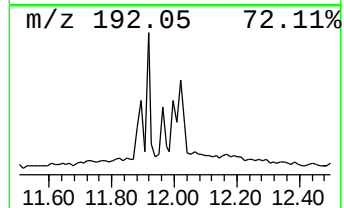
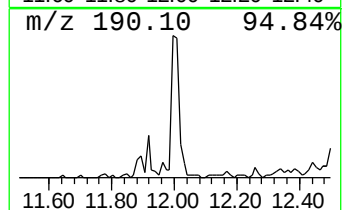
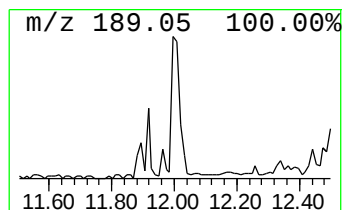
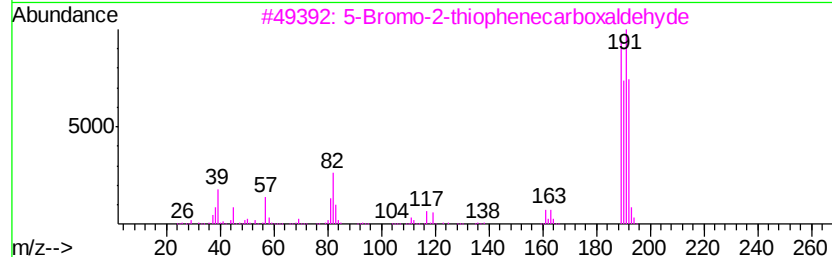
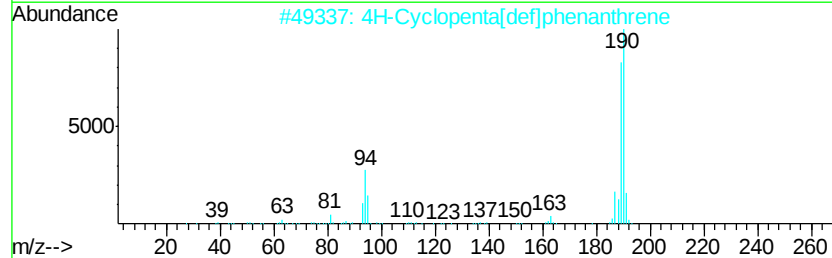
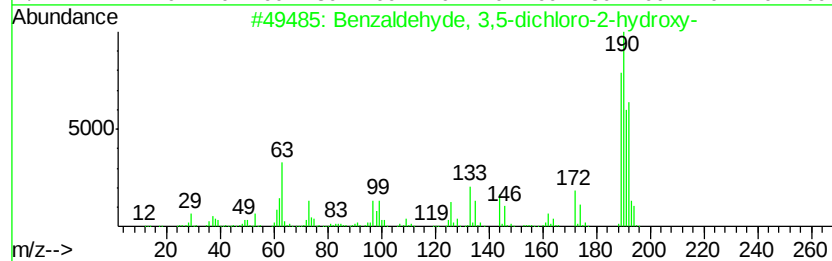
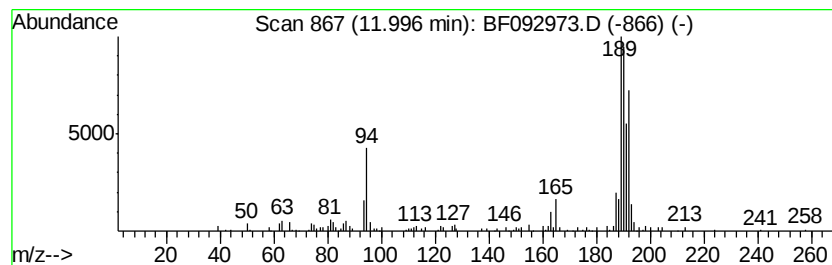
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzaldehyde, 3,5-dichloro-... Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.00 | 4.35 ng | 267022 | Phenanthrene-d10 | 11.39 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 64   |
| 2    |    |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10    | 000203-64-5 | 58   |
| 3    |    |   | 5-Bromo-2-thiophenecarboxaldehyde   | 190 | C5H3BrOS  | 004701-17-1 | 52   |
| 4    |    |   | 5H-Dibenzo[a,d]cycloheptene         | 192 | C15H12    | 000256-81-5 | 35   |
| 5    |    |   | Phenanthrene, 4-methyl-             | 192 | C15H12    | 000832-64-4 | 35   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021517\  
Data File : BF092973.D  
Acq On : 16 Feb 2017 1:26  
Operator : SJ/MA  
Sample : I1850-05  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
TP21-COMP15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

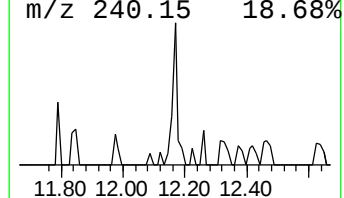
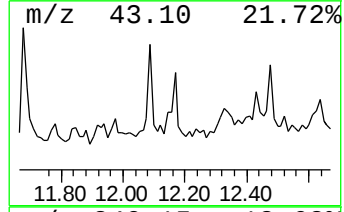
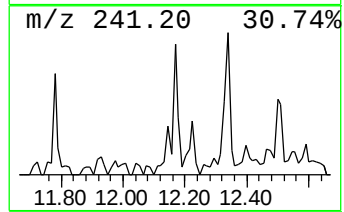
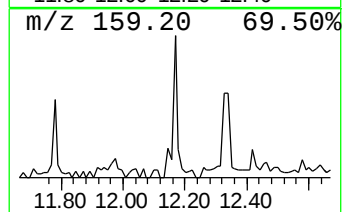
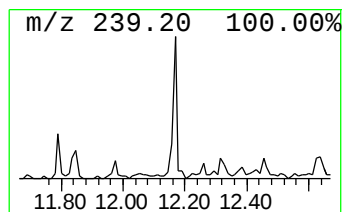
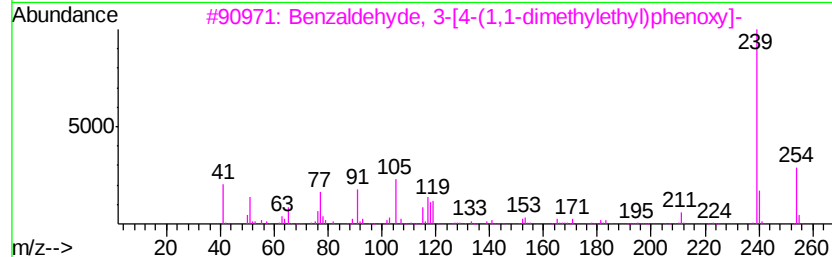
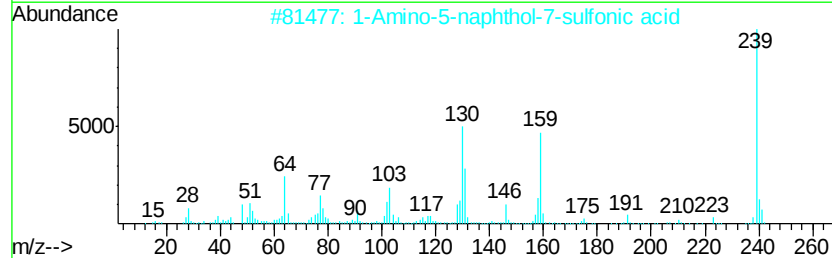
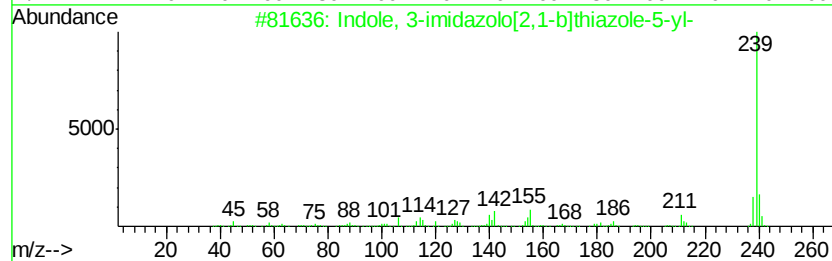
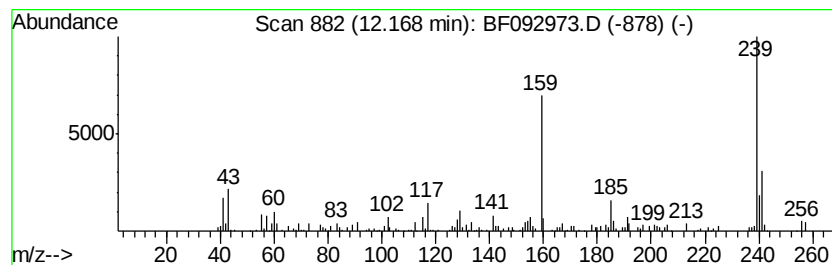
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 unknown12.17 Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.17 | 4.42 ng | 271557 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Indole, 3-imidazolo[2,1-b]thiazo... | 239 | C13H9N3S   | 292855-05-1  | 45   |
| 2    |    | 1-Amino-5-naphthol-7-sulfonic acid  | 239 | C10H9NO4S  | 000489-78-1  | 40   |
| 3    |    | Benzaldehyde, 3-[4-(1,1-dimethyl... | 254 | C17H18O2   | 069770-23-6  | 38   |
| 4    |    | Imidazolo[2,1-b]thiazole, 5-(3-i... | 239 | C13H9N3S   | 327097-37-0  | 38   |
| 5    |    | 4-(4-Oxo-1,2,3,4,6,7,12,12b-octa... | 326 | C19H22N2O3 | 1000137-91-1 | 35   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021517\  
Data File : BF092973.D  
Acq On : 16 Feb 2017 1:26  
Operator : SJ/MA  
Sample : I1850-05  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP21-COMP15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

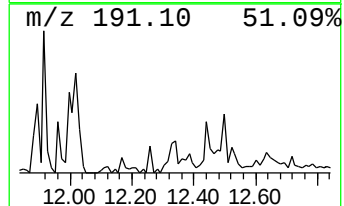
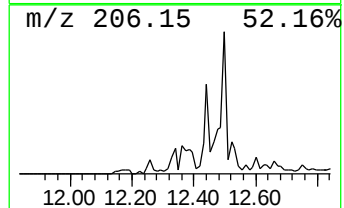
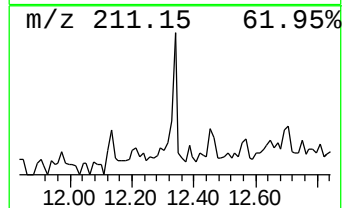
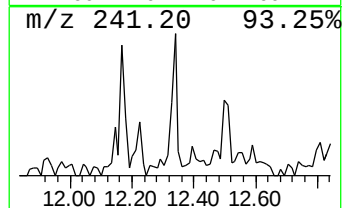
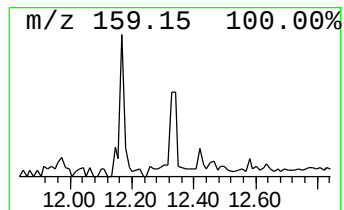
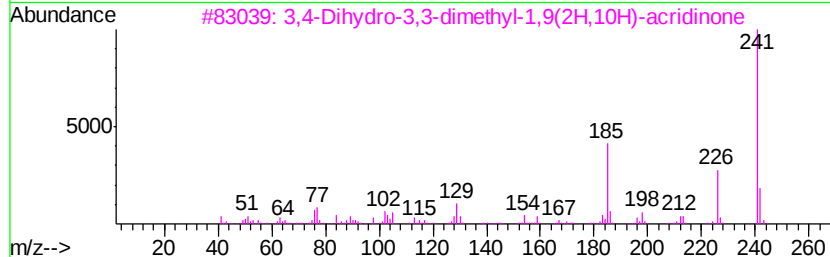
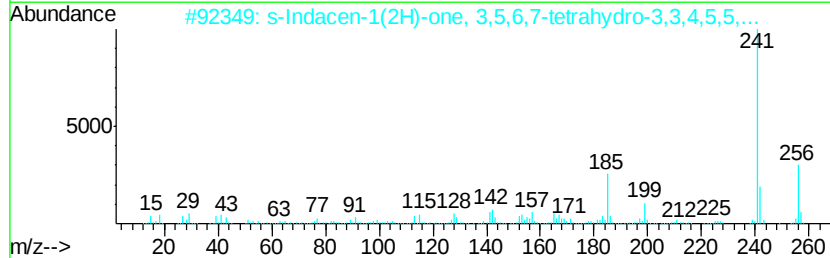
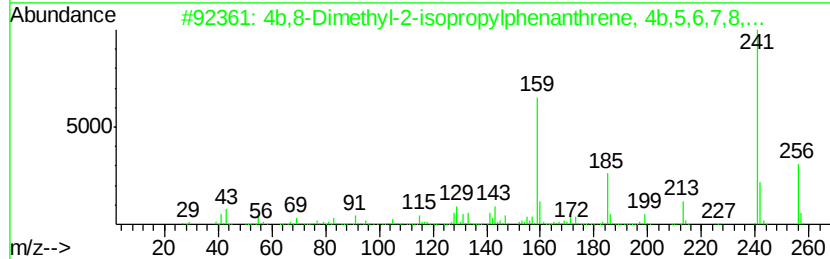
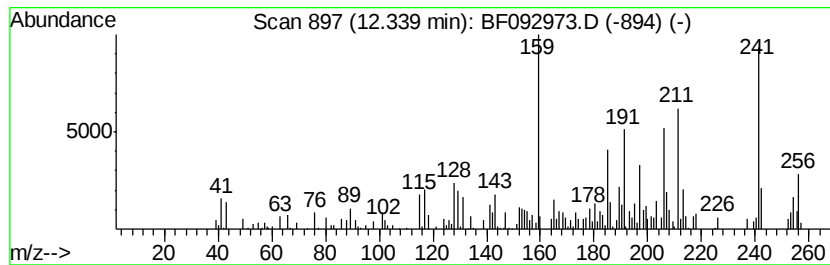
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 4b,8-Dimethyl-2-isopropylph... Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.34 | 2.67 ng | 163791 | Phenanthrene-d10 | 11.39 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 4b,8-Dimethyl-2-isopropylphenant... | 256 | C19H28    | 1000197-14-1 | 83   |
| 2    |    | s-Indacen-1(2H)-one, 3,5,6,7-tet... | 256 | C18H24O   | 038754-94-8  | 38   |
| 3    |    | 3,4-Dihydro-3,3-dimethyl-1,9(2H,... | 241 | C15H15N02 | 1000212-95-2 | 38   |
| 4    |    | 1H-Benz[de]isoquinoline-1,3(2H)-... | 241 | C14H11N03 | 055133-82-9  | 25   |
| 5    |    | Phenanthrene, 4,5-dimethyl-         | 206 | C16H14    | 003674-69-9  | 25   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021517\  
Data File : BF092973.D  
Acq On : 16 Feb 2017 1:26  
Operator : SJ/MA  
Sample : I1850-05  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

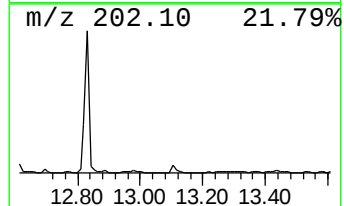
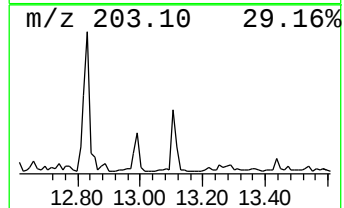
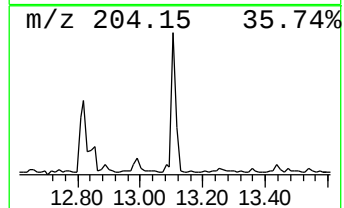
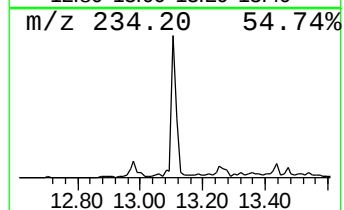
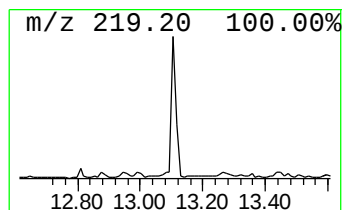
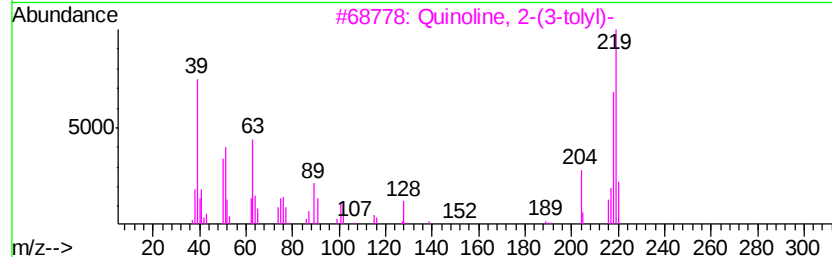
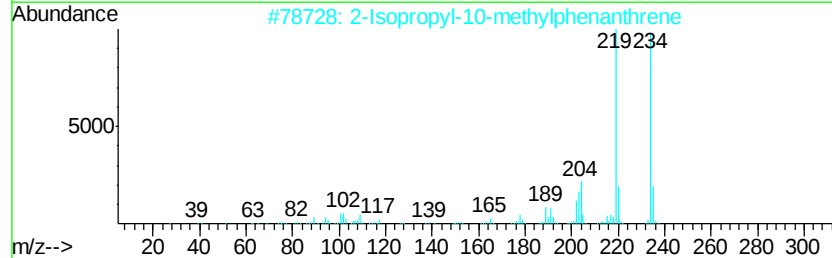
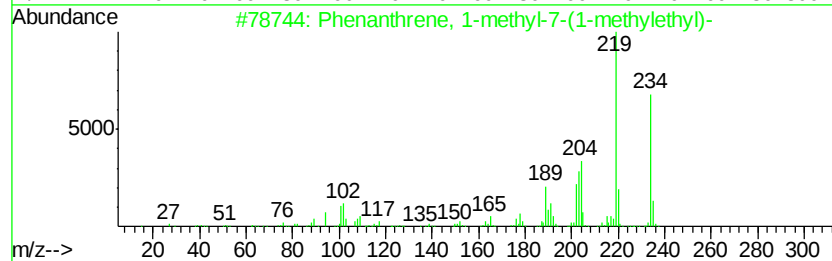
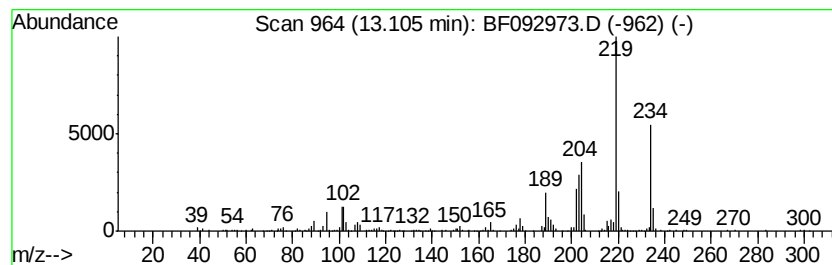
Instrument :  
BNA\_F  
ClientSampleId :  
TP21-COMP15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Phenanthrene, 1-methyl-7-(1... Concentration Rank 8

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.    |             |      |
|---------|-------------------------------------|--------------|------------------|---------|-------------|------|
| 13.11   | 4.34 ng                             | 309991       | Chrysene-d12     | 14.02   |             |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm | CAS#        | Qual |
| 1       | Phenanthrene, 1-methyl-7-(1-meth... | 234          | C18H18           |         | 000483-65-8 | 96   |
| 2       | 2-Isopropyl-10-methylphenanthrene   | 234          | C18H18           |         | 066552-97-4 | 94   |
| 3       | Quinoline, 2-(3-tolyl)-             | 219          | C16H13N          |         | 024641-30-3 | 87   |
| 4       | Phenanthrene, 2,4,5,7-tetramethyl-  | 234          | C18H18           |         | 007396-38-5 | 70   |
| 5       | 2,5-Diphenyl-2,4-hexadiene          | 234          | C18H18           |         | 016819-47-9 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021517\  
Data File : BF092973.D  
Acq On : 16 Feb 2017 1:26  
Operator : SJ/MA  
Sample : I1850-05  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

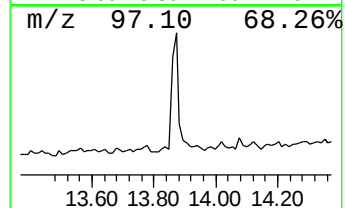
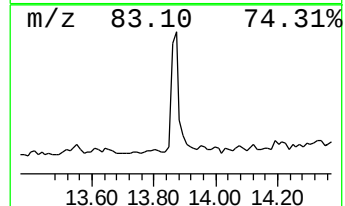
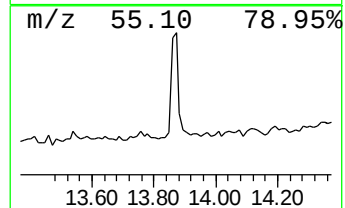
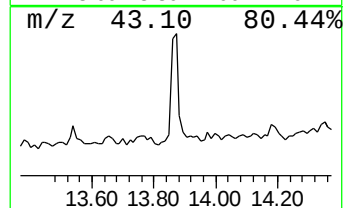
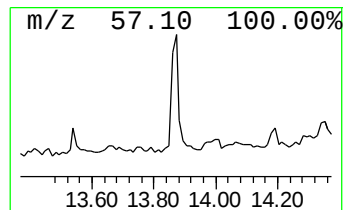
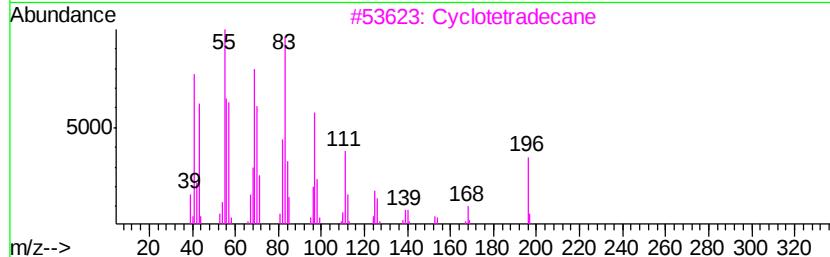
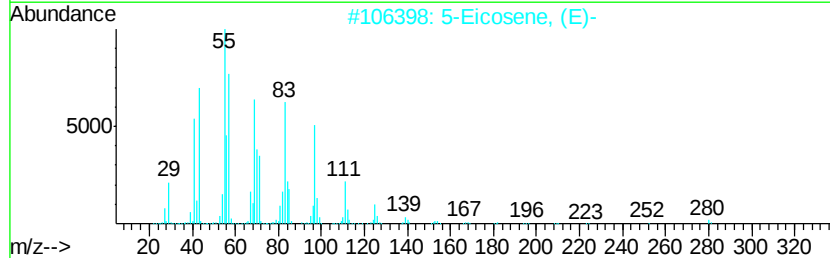
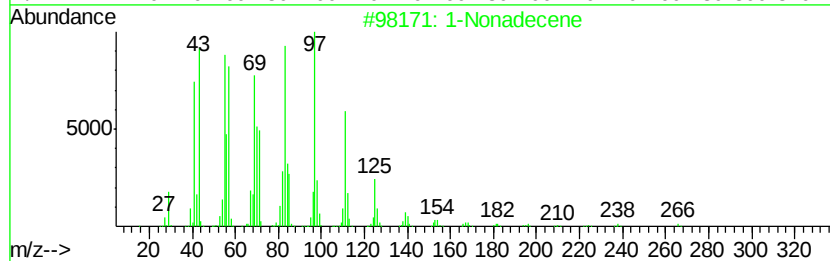
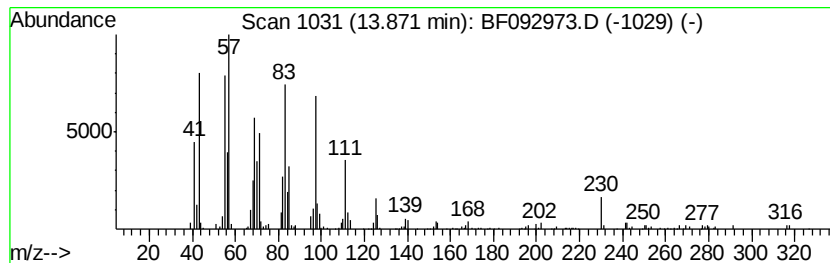
Instrument :  
BNA\_F  
ClientSampleId :  
TP21-COMP15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 1-Nonadecene Concentration Rank 9

| R.T.    | EstConc                             | Area            | Relative to ISTD | R.T.      |
|---------|-------------------------------------|-----------------|------------------|-----------|
| 13.87   | 3.98 ng                             | 284263          | Chrysene-d12     | 14.02     |
| Hit# of | 5                                   | Tentative ID    | MW MolForm       | CAS# Qual |
| 1       | 1-Nonadecene                        | 266 C19H38      | 018435-45-5      | 98        |
| 2       | 5-Eicosene, (E)-                    | 280 C20H40      | 074685-30-6      | 93        |
| 3       | Cyclotetradecane                    | 196 C14H28      | 000295-17-0      | 93        |
| 4       | Trichloroacetic acid, hexadecyl ... | 386 C18H33Cl3O2 | 074339-54-1      | 91        |
| 5       | 17-Pentatriacontene                 | 491 C35H70      | 006971-40-0      | 91        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021517\  
 Data File : BF092973.D  
 Acq On : 16 Feb 2017 1:26  
 Operator : SJ/MA  
 Sample : I1850-05  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP21-COMP15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 5.05  | 35.1 ng |       | 1785320  | 1                     | 6.88  | 1017270 | 20.0 |
| unknown6.65          | 6.65  | 81.8 ng |       | 4162100  | 1                     | 6.88  | 1017270 | 20.0 |
| unknown9.84          | 9.84  | 2.2 ng  |       | 148264   | 3                     | 9.90  | 1337850 | 20.0 |
| Tridecane            | 10.81 | 3.0 ng  |       | 182331   | 4                     | 11.39 | 1227920 | 20.0 |
| Eicosane             | 11.25 | 2.4 ng  |       | 148395   | 4                     | 11.39 | 1227920 | 20.0 |
| Cyclotetradecane     | 11.62 | 4.4 ng  |       | 267469   | 4                     | 11.39 | 1227920 | 20.0 |
| unknown11.78         | 11.78 | 2.1 ng  |       | 126424   | 4                     | 11.39 | 1227920 | 20.0 |
| unknown11.97         | 11.97 | 3.5 ng  |       | 214190   | 4                     | 11.39 | 1227920 | 20.0 |
| Benzaldehyde, 3,5... | 12.00 | 4.3 ng  |       | 267022   | 4                     | 11.39 | 1227920 | 20.0 |
| unknown12.17         | 12.17 | 4.4 ng  |       | 271557   | 4                     | 11.39 | 1227920 | 20.0 |
| 4b,8-Dimethyl-2-i... | 12.34 | 2.7 ng  |       | 163791   | 4                     | 11.39 | 1227920 | 20.0 |
| Phenanthrene, 1-m... | 13.11 | 4.3 ng  |       | 309991   | 5                     | 14.02 | 1429960 | 20.0 |
| 1-Nonadecene         | 13.87 | 4.0 ng  |       | 284263   | 5                     | 14.02 | 1429960 | 20.0 |