

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030215\  
 Data File : BF077529.D  
 Acq On : 2 Mar 2015 18:27  
 Operator : TP/IZ  
 Sample : G1399-07  
 Misc : S  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB15

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: CENTROID

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.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         | 1.173       | 22            | 25          | 28           | rVB      | 1355871        | 2309206       | 40.57%          | 5.820%        |
| 2         | 1.413       | 43            | 46          | 48           | rBV      | 5201451        | 5692012       | 100.00%         | 14.347%       |
| 3         | 1.550       | 54            | 58          | 61           | rBV      | 1296299        | 2109653       | 37.06%          | 5.317%        |
| 4         | 1.721       | 70            | 73          | 76           | rVB      | 243630         | 337628        | 5.93%           | 0.851%        |
| 5         | 1.847       | 83            | 84          | 95           | rVB      | 113645         | 170840        | 3.00%           | 0.431%        |
| 6         | 5.036       | 361           | 363         | 371          | rVB      | 375687         | 427648        | 7.51%           | 1.078%        |
| 7         | 5.550       | 405           | 408         | 411          | rBV      | 924781         | 914962        | 16.07%          | 2.306%        |
| 8         | 6.819       | 517           | 519         | 522          | rBV      | 1563229        | 1439101       | 25.28%          | 3.627%        |
| 9         | 6.967       | 530           | 532         | 535          | rBV      | 1230647        | 1269810       | 22.31%          | 3.201%        |
| 10        | 7.265       | 555           | 558         | 560          | rBV      | 555915         | 583350        | 10.25%          | 1.470%        |
| 11        | 7.447       | 572           | 574         | 576          | rBV      | 1452748        | 1285779       | 22.59%          | 3.241%        |
| 12        | 7.950       | 615           | 618         | 621          | rBV      | 1088376        | 960885        | 16.88%          | 2.422%        |
| 13        | 8.842       | 693           | 696         | 697          | rBV      | 646137         | 787849        | 13.84%          | 1.986%        |
| 14        | 10.179      | 811           | 813         | 816          | rVB      | 1905262        | 1953853       | 34.33%          | 4.925%        |
| 15        | 10.305      | 822           | 824         | 827          | rVB      | 75490          | 97224         | 1.71%           | 0.245%        |
| 16        | 10.682      | 856           | 857         | 860          | rBV2     | 67738          | 146628        | 2.58%           | 0.370%        |
| 17        | 10.968      | 880           | 882         | 884          | rBV      | 129493         | 137591        | 2.42%           | 0.347%        |
| 18        | 11.014      | 884           | 886         | 888          | rVB      | 925196         | 912432        | 16.03%          | 2.300%        |
| 19        | 11.265      | 905           | 908         | 910          | rBV      | 151289         | 174865        | 3.07%           | 0.441%        |
| 20        | 11.596      | 934           | 937         | 939          | rVB      | 113198         | 121579        | 2.14%           | 0.306%        |
| 21        | 11.871      | 957           | 961         | 962          | rBV2     | 62755          | 107130        | 1.88%           | 0.270%        |
| 22        | 11.905      | 962           | 964         | 967          | rVV2     | 115112         | 197845        | 3.48%           | 0.499%        |
| 23        | 11.985      | 969           | 971         | 975          | rVB2     | 324312         | 413467        | 7.26%           | 1.042%        |
| 24        | 12.191      | 987           | 989         | 992          | rVB2     | 105128         | 213737        | 3.76%           | 0.539%        |
| 25        | 12.739      | 1033          | 1037        | 1039         | rVB2     | 96125          | 185989        | 3.27%           | 0.469%        |
| 26        | 12.785      | 1039          | 1041        | 1043         | rVB      | 67338          | 94107         | 1.65%           | 0.237%        |
| 27        | 12.854      | 1044          | 1047        | 1048         | rBV      | 969992         | 950514        | 16.70%          | 2.396%        |
| 28        | 12.888      | 1048          | 1050        | 1052         | rVB      | 892642         | 1160214       | 20.38%          | 2.924%        |
| 29        | 12.945      | 1052          | 1055        | 1057         | rBV      | 173667         | 207716        | 3.65%           | 0.524%        |
| 30        | 13.151      | 1069          | 1073        | 1075         | rBV      | 58406          | 96460         | 1.69%           | 0.243%        |
| 31        | 13.277      | 1082          | 1084        | 1086         | rVB2     | 141454         | 141414        | 2.48%           | 0.356%        |
| 32        | 13.482      | 1100          | 1102        | 1103         | rBV      | 161363         | 165196        | 2.90%           | 0.416%        |
| 33        | 13.517      | 1103          | 1105        | 1108         | rVV      | 215730         | 234356        | 4.12%           | 0.591%        |
| 34        | 13.619      | 1111          | 1114        | 1115         | rVV2     | 119943         | 189567        | 3.33%           | 0.478%        |

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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB15

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: CENTROID

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 13.642 | 1115 | 1116 | 1119 | rVB  | 97338   | 118000  | 2.07%  | 0.297% |
| 36 | 13.791 | 1126 | 1129 | 1131 | rBV2 | 89057   | 123913  | 2.18%  | 0.312% |
| 37 | 13.860 | 1133 | 1135 | 1141 | rBV3 | 113471  | 246463  | 4.33%  | 0.621% |
| 38 | 14.271 | 1169 | 1171 | 1173 | rVB2 | 149486  | 179815  | 3.16%  | 0.453% |
| 39 | 14.362 | 1176 | 1179 | 1181 | rBV  | 1373168 | 1346767 | 23.66% | 3.395% |
| 40 | 14.442 | 1184 | 1186 | 1188 | rBV3 | 55049   | 104117  | 1.83%  | 0.262% |
| 41 | 14.637 | 1200 | 1203 | 1206 | rBV2 | 895208  | 1260094 | 22.14% | 3.176% |
| 42 | 14.740 | 1210 | 1212 | 1214 | rVB2 | 142476  | 151775  | 2.67%  | 0.383% |
| 43 | 14.854 | 1219 | 1222 | 1224 | rBV  | 1925722 | 2313253 | 40.64% | 5.831% |
| 44 | 14.922 | 1224 | 1228 | 1230 | rVB2 | 54698   | 133619  | 2.35%  | 0.337% |
| 45 | 15.185 | 1249 | 1251 | 1253 | rBV  | 198600  | 181290  | 3.18%  | 0.457% |
| 46 | 15.334 | 1263 | 1264 | 1266 | rBV2 | 89881   | 136295  | 2.39%  | 0.344% |
| 47 | 15.620 | 1287 | 1289 | 1290 | rBV  | 126529  | 169477  | 2.98%  | 0.427% |
| 48 | 16.008 | 1321 | 1323 | 1332 | rVB4 | 564039  | 1642884 | 28.86% | 4.141% |
| 49 | 16.145 | 1332 | 1335 | 1336 | rBV2 | 1065526 | 1630950 | 28.65% | 4.111% |
| 50 | 16.191 | 1336 | 1339 | 1341 | rVB2 | 1212589 | 1751246 | 30.77% | 4.414% |
| 51 | 16.831 | 1393 | 1395 | 1398 | rVB4 | 219654  | 288626  | 5.07%  | 0.727% |
| 52 | 17.426 | 1445 | 1447 | 1452 | rBV  | 329111  | 779925  | 13.70% | 1.966% |
| 53 | 17.871 | 1484 | 1486 | 1489 | rBV  | 751789  | 925533  | 16.26% | 2.333% |

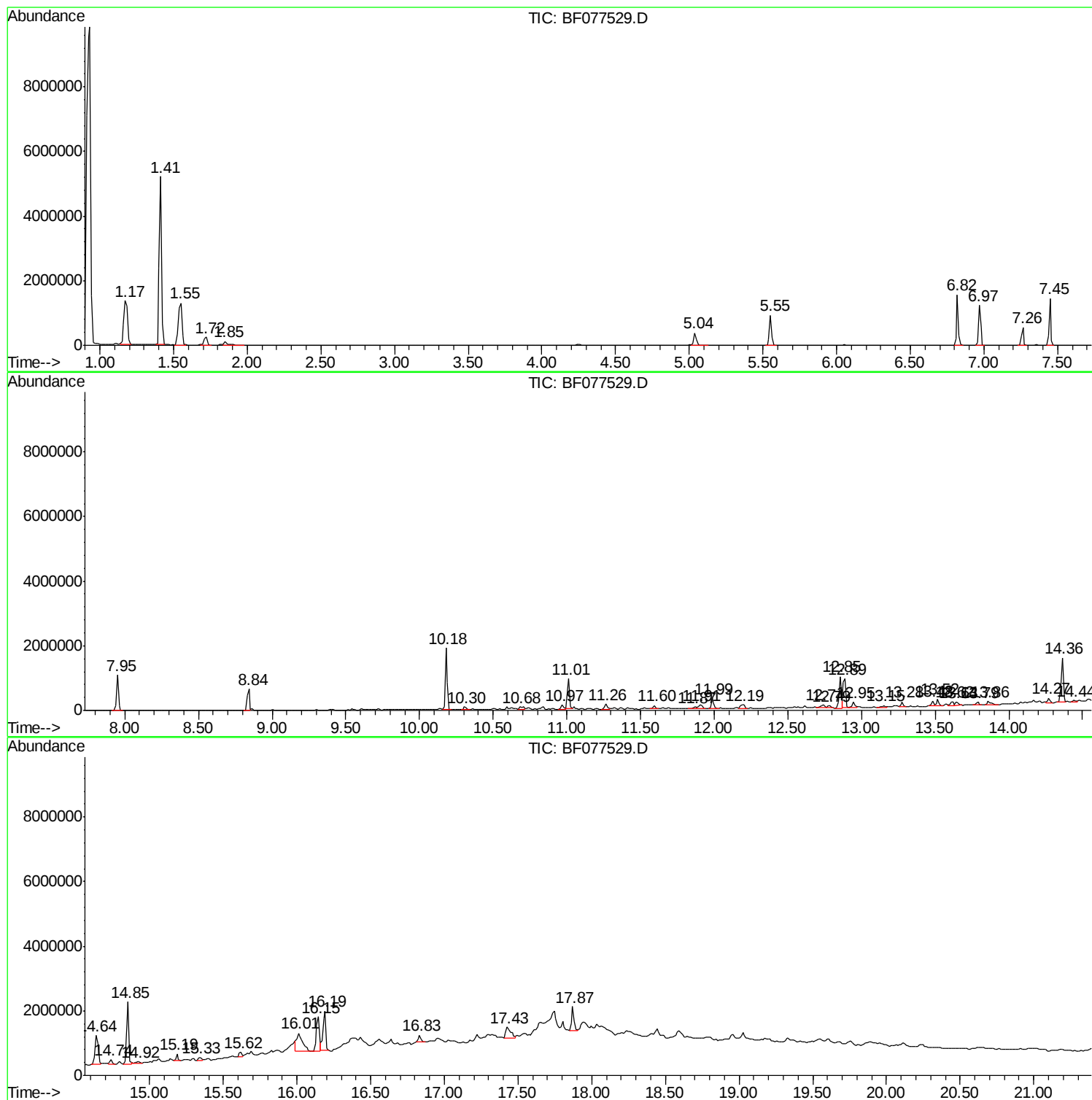
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Misc : S  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030215\  
Data File : BF077529.D  
Acq On : 2 Mar 2015 18:27  
Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

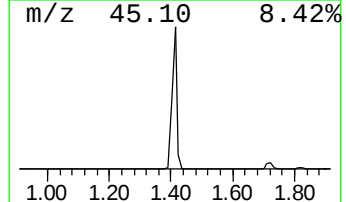
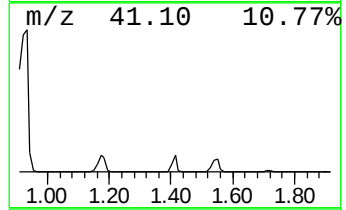
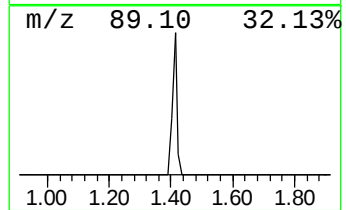
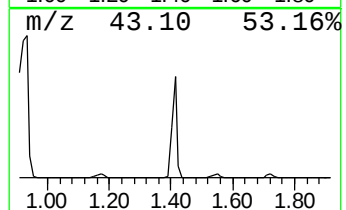
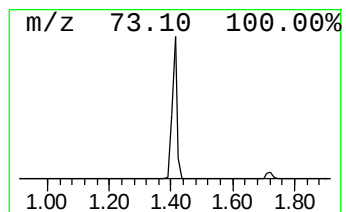
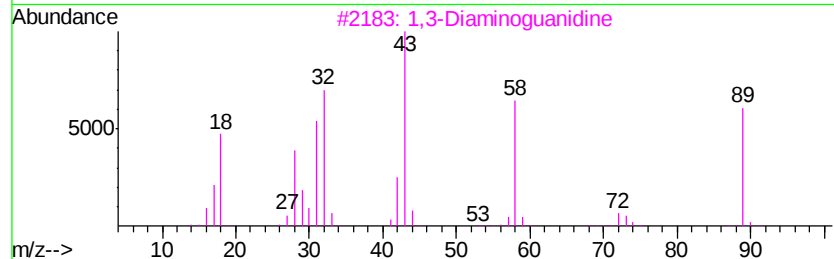
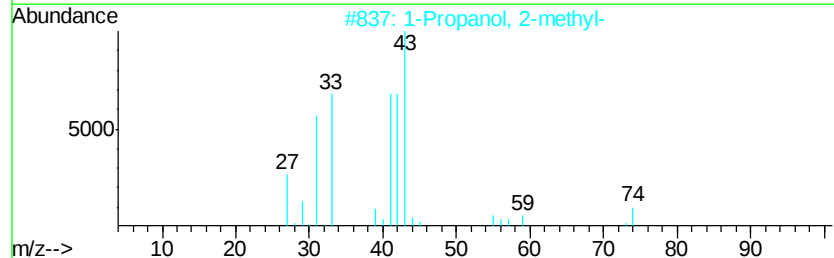
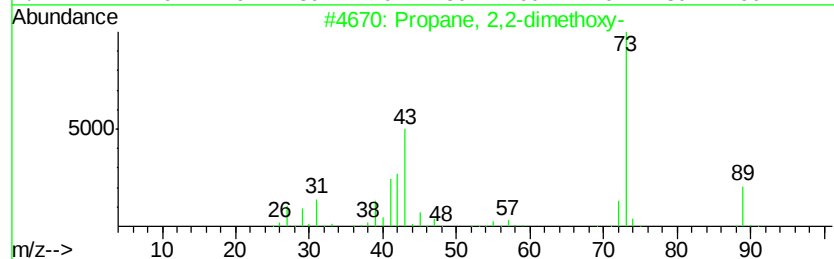
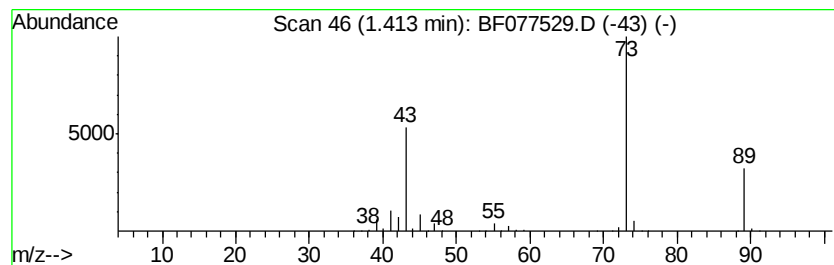
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Propane, 2,2-dimethoxy- Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 1.41 | 195.15 ng | 5692010 | 1,4-Dichlorobenzene-d4 | 7.26 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propane, 2,2-dimethoxy-        | 104 | C5H12O2 | 000077-76-9 | 50   |
| 2    |    | 1-Propanol, 2-methyl-          | 74  | C4H10O  | 000078-83-1 | 9    |
| 3    |    | 1,3-Diaminoquanidine           | 89  | CH7N5   | 004364-78-7 | 9    |
| 4    |    | 2-Hydroxy-2-methylbutyric acid | 118 | C5H10O3 | 003739-30-8 | 9    |
| 5    |    | Propane, 2-methoxy-2-methyl-   | 88  | C5H12O  | 001634-04-4 | 9    |



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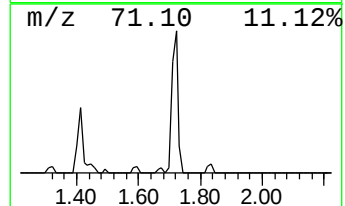
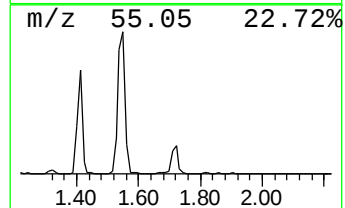
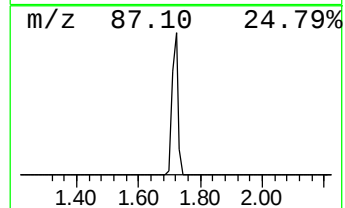
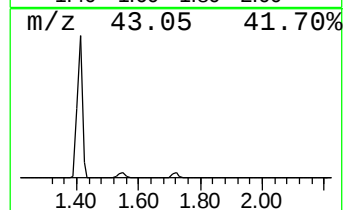
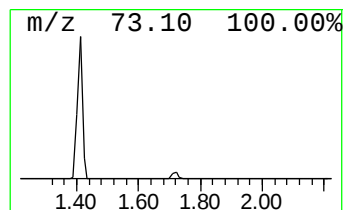
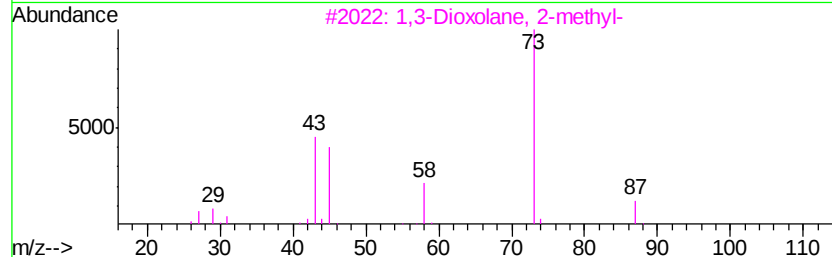
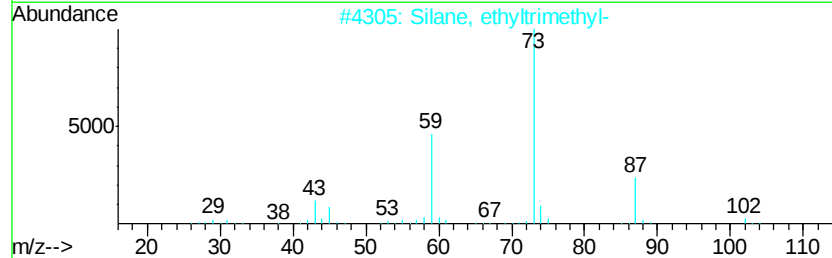
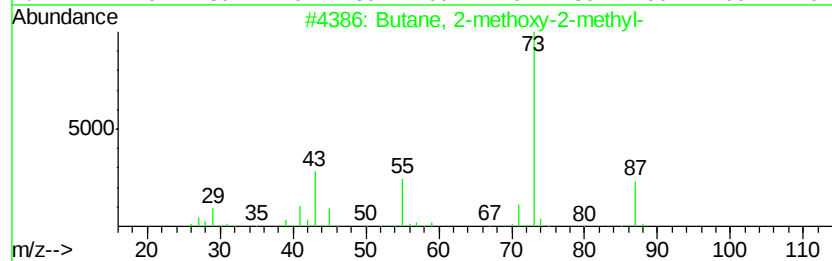
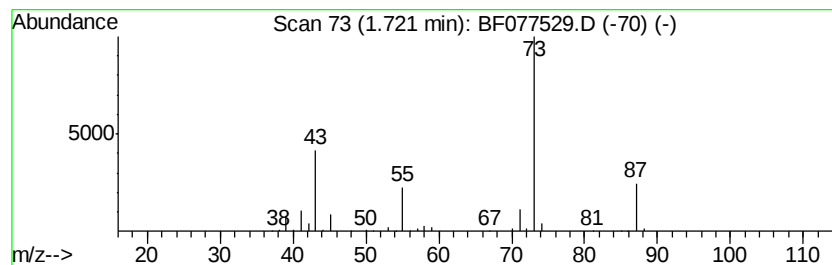
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 Butane, 2-methoxy-2-methyl- Concentration Rank 8

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 1.72 | 11.58 ng | 337628 | 1,4-Dichlorobenzene-d4 | 7.26 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | Silane, ethyltrimethyl-     | 102 | C5H14Si | 003439-38-1 | 33   |
| 3    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 23   |
| 4    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 17   |
| 5    |    | Methane, isothiocyanato-    | 73  | C2H3NS  | 000556-61-6 | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
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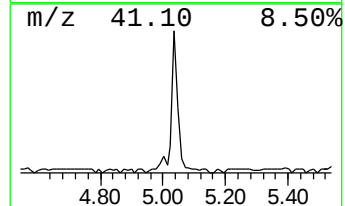
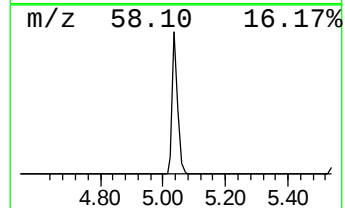
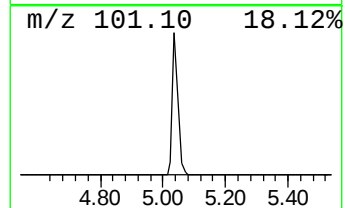
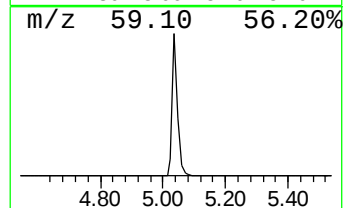
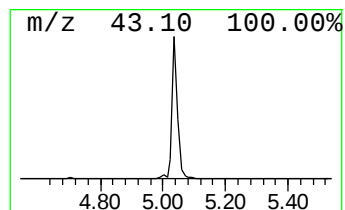
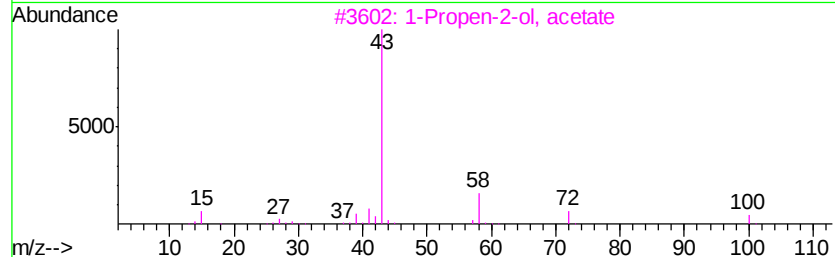
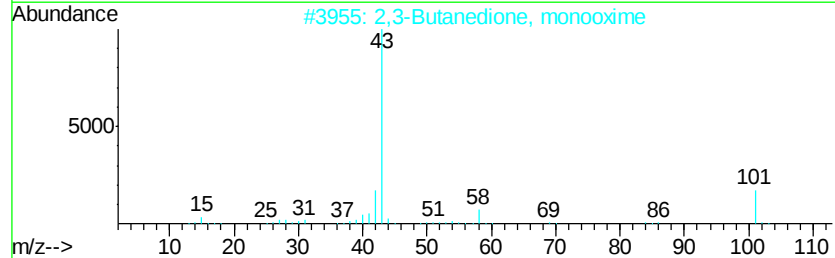
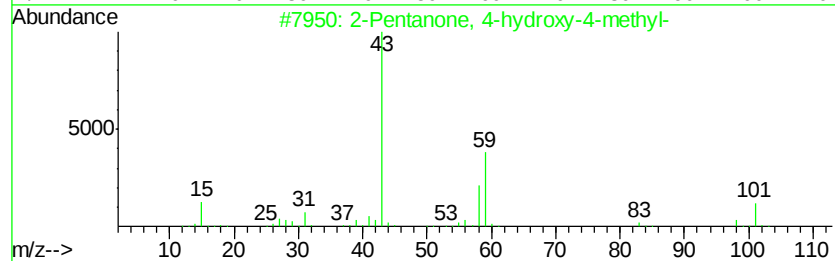
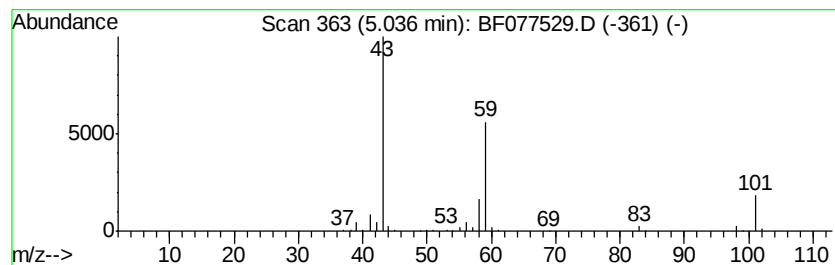
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.04 | 14.66 ng | 427648 | 1,4-Dichlorobenzene-d4 | 7.26 |

| Hit# of | 5                                | Tentative ID | MW      | MolForm     | CAS# | Qual |
|---------|----------------------------------|--------------|---------|-------------|------|------|
| 1       | 2-Pentanone, 4-hydroxy-4-methyl- | 116          | C6H12O2 | 000123-42-2 | 59   |      |
| 2       | 2,3-Butanedione, monooxime       | 101          | C4H7NO2 | 000057-71-6 | 16   |      |
| 3       | 1-Propen-2-ol, acetate           | 100          | C5H8O2  | 000108-22-5 | 10   |      |
| 4       | Morpholine, 4-methyl-            | 101          | C5H11NO | 000109-02-4 | 9    |      |
| 5       | 3-Hydroxy-3-methyl-2-butanone    | 102          | C5H10O2 | 000115-22-0 | 9    |      |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

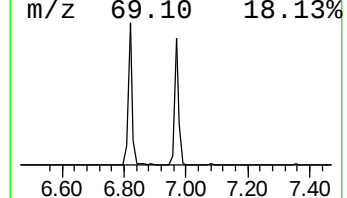
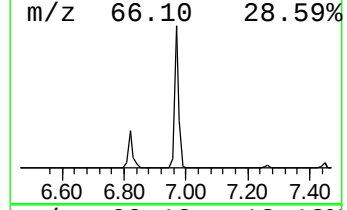
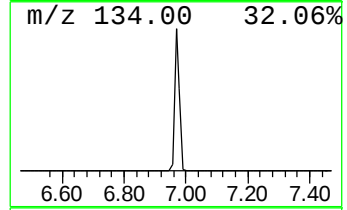
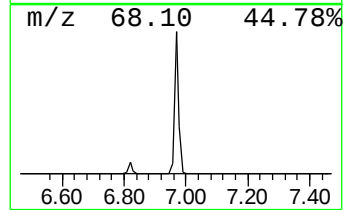
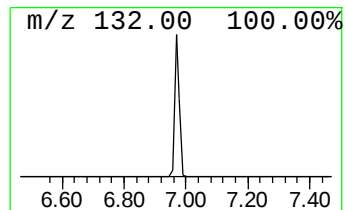
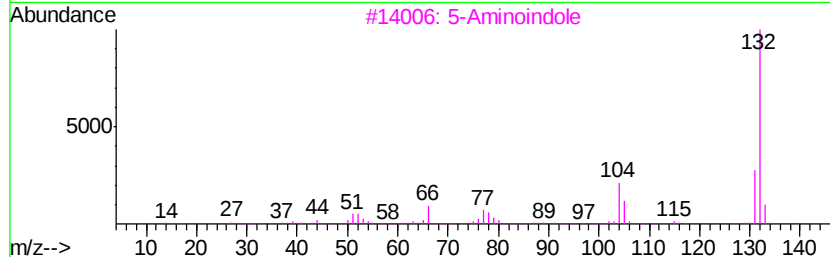
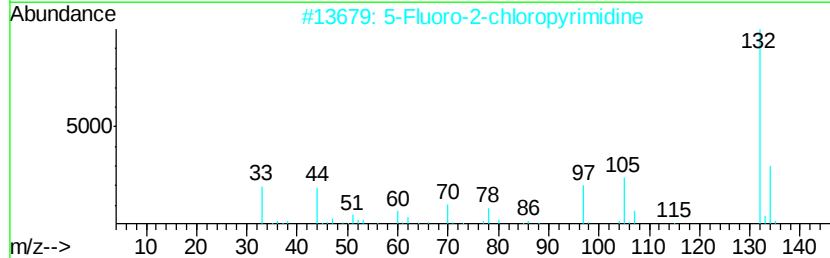
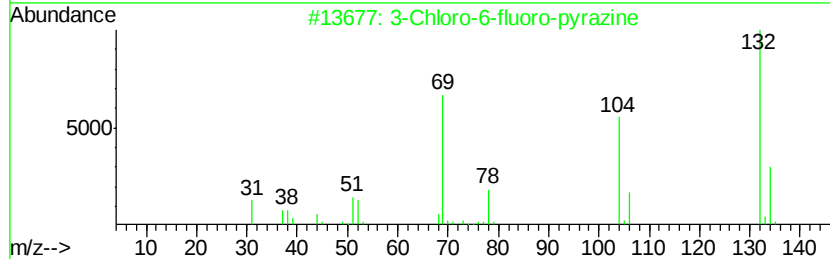
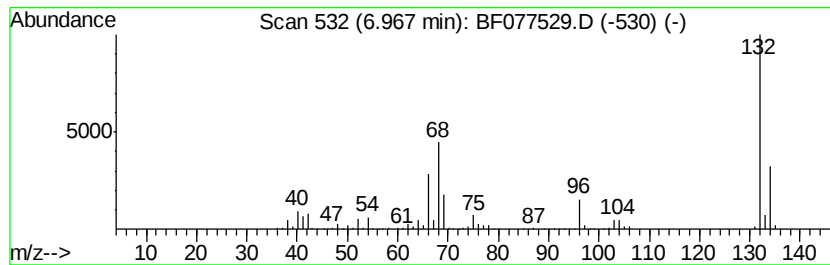
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 unknown6.97 Concentration Rank 5

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.97 | 43.54 ng | 1269810 | 1,4-Dichlorobenzene-d4 | 7.26 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 3    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030215\  
Data File : BF077529.D  
Acq On : 2 Mar 2015 18:27  
Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

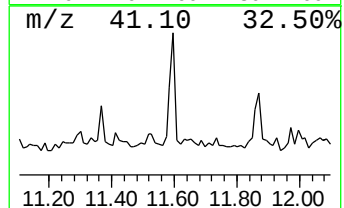
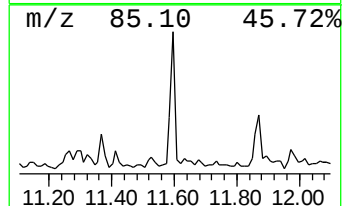
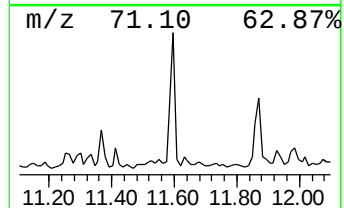
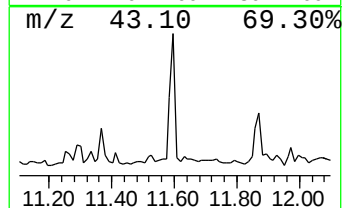
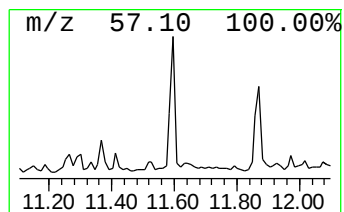
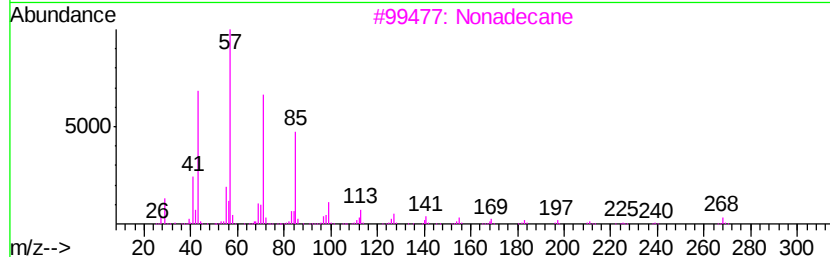
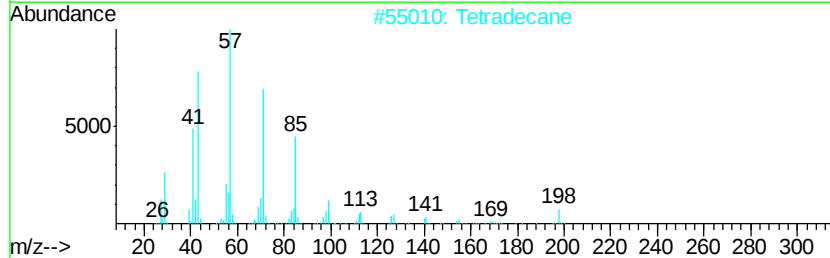
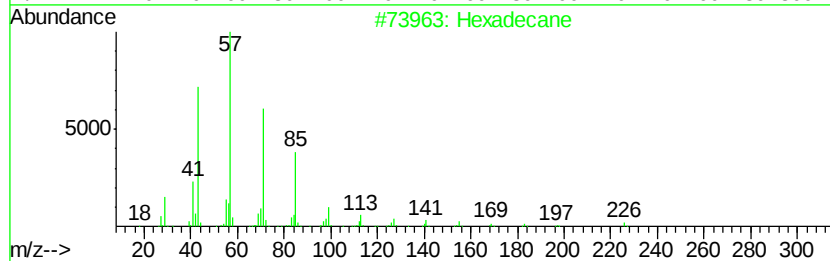
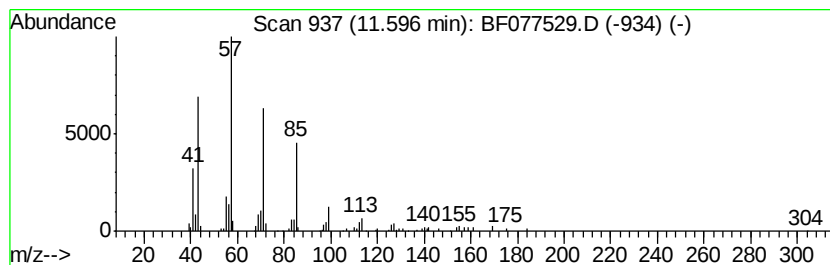
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 Hexadecane Concentration Rank 20

| R.T.    | EstConc     | Area         | Relative to ISTD | R.T.      |
|---------|-------------|--------------|------------------|-----------|
| 11.60   | 2.66 ng     | 121579       | Acenaphthene-d10 | 11.01     |
| Hit# of | 5           | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Hexadecane  | 226 C16H34   | 000544-76-3      | 91        |
| 2       | Tetradecane | 198 C14H30   | 000629-59-4      | 91        |
| 3       | Nonadecane  | 268 C19H40   | 000629-92-5      | 90        |
| 4       | Pentadecane | 212 C15H32   | 000629-62-9      | 90        |
| 5       | Heptadecane | 240 C17H36   | 000629-78-7      | 90        |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF030215\  
Data File : BF077529.D  
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Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

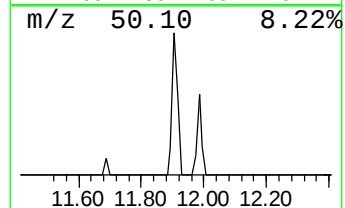
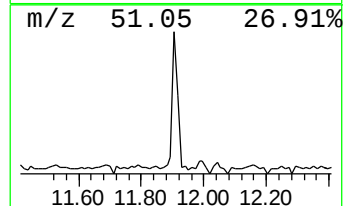
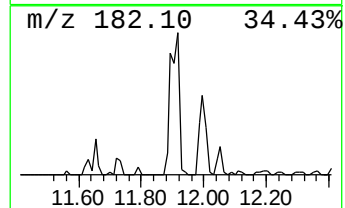
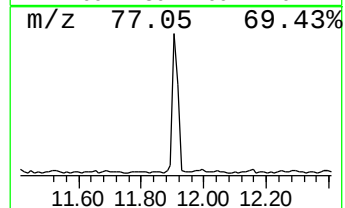
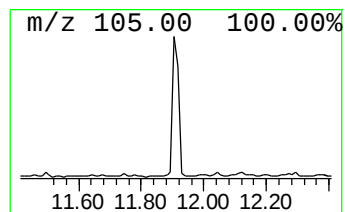
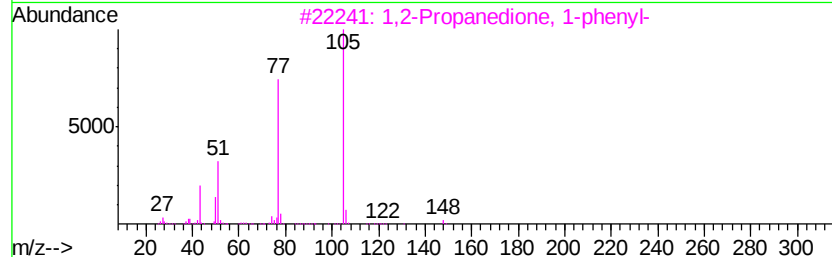
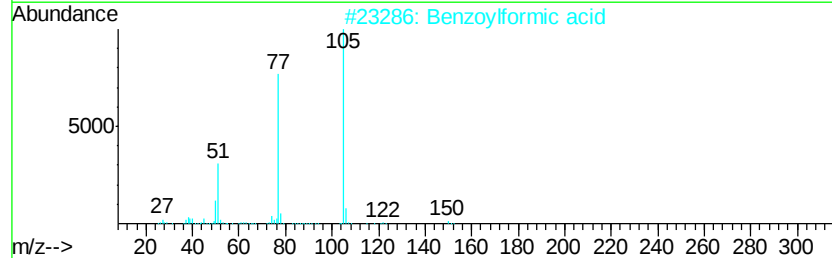
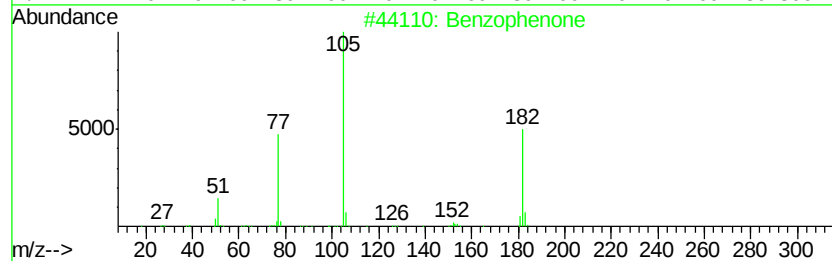
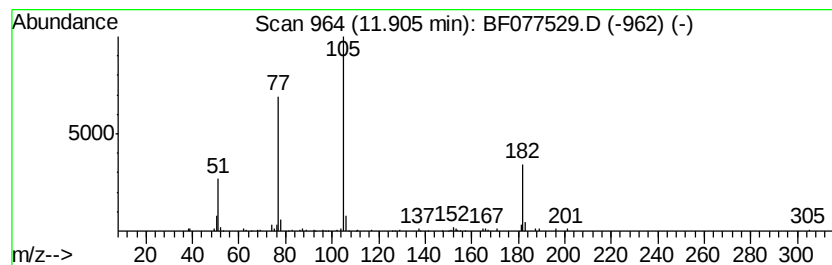
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 Benzophenone Concentration Rank 13

| R.T.      | EstConc                         | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------------------|--------|------------------|-------------|-------|
| 11.91     | 4.34 ng                         | 197845 | Acenaphthene-d10 |             | 11.01 |
| Hit# of 5 | Tentative ID                    | MW     | MolForm          | CAS#        | Qual  |
| 1         | Benzophenone                    | 182    | C13H10O          | 000119-61-9 | 90    |
| 2         | Benzoylformic acid              | 150    | C8H6O3           | 000611-73-4 | 64    |
| 3         | 1,2-Propanedione, 1-phenyl-     | 148    | C9H8O2           | 000579-07-7 | 59    |
| 4         | 1-Propanone, 3-chloro-1-phenyl- | 168    | C9H9ClO          | 000936-59-4 | 59    |
| 5         | Vinyl benzoate                  | 148    | C9H8O2           | 000769-78-8 | 59    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030215\  
Data File : BF077529.D  
Acq On : 2 Mar 2015 18:27  
Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

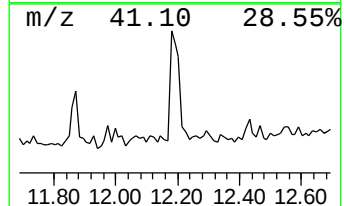
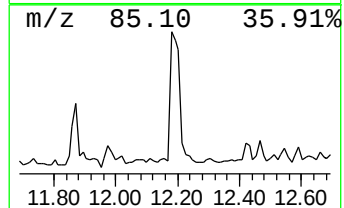
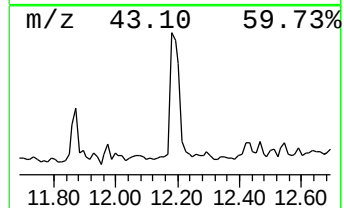
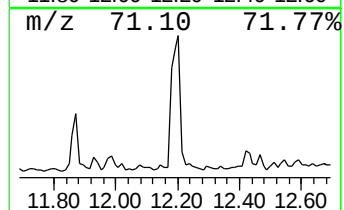
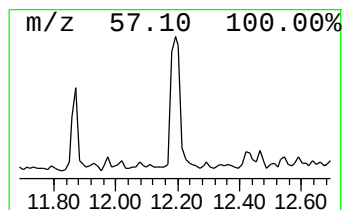
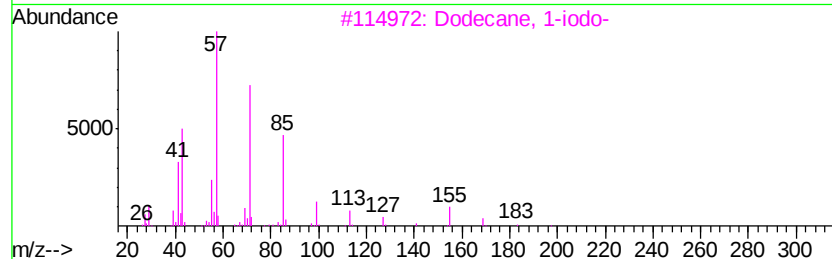
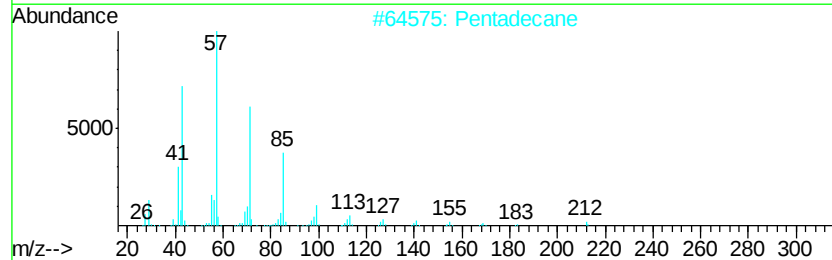
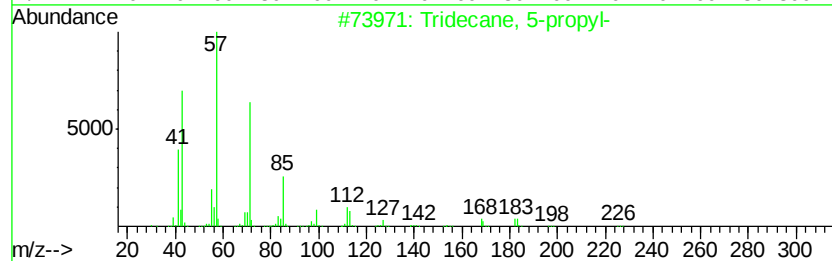
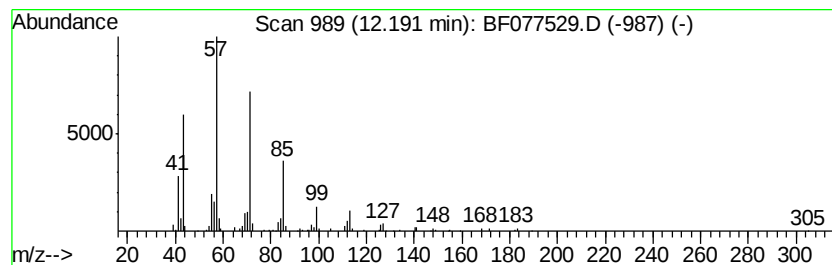
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 Tridecane, 5-propyl- Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.19 | 4.50 ng | 213737 | Phenanthrene-d10 | 12.85 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Tridecane, 5-propyl-                | 226 | C16H34  | 055045-11-9 | 86   |
| 2    |    |   | Pentadecane                         | 212 | C15H32  | 000629-62-9 | 86   |
| 3    |    |   | Dodecane, 1-iodo-                   | 296 | C12H25I | 004292-19-7 | 86   |
| 4    |    |   | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 80   |
| 5    |    |   | Hexadecane                          | 226 | C16H34  | 000544-76-3 | 78   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF030215\  
Data File : BF077529.D  
Acq On : 2 Mar 2015 18:27  
Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

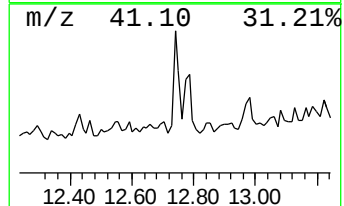
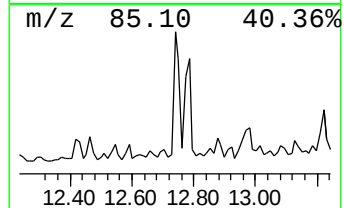
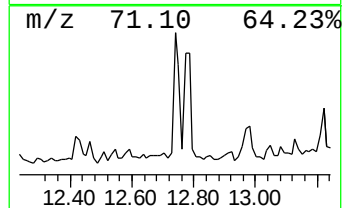
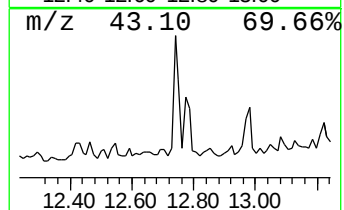
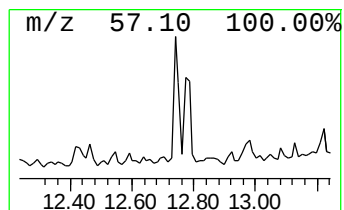
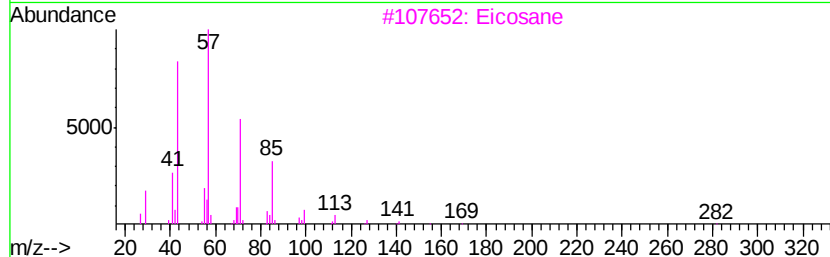
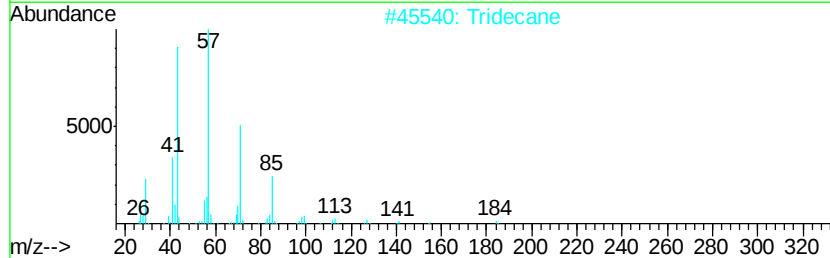
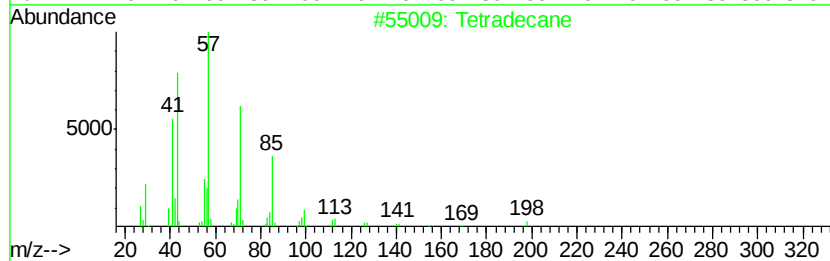
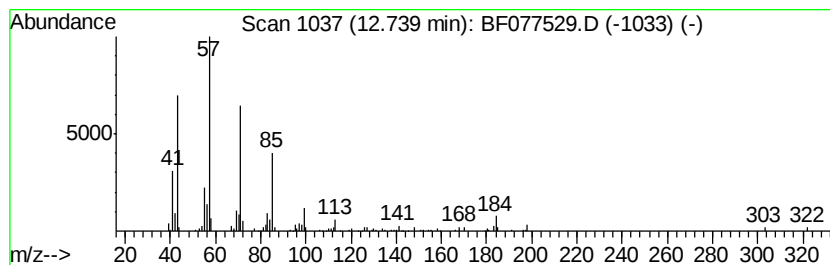
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 Tetradecane Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.74 | 3.91 ng | 185989 | Phenanthrene-d10 | 12.85 |

| Hit# | of | 5 | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------|-----|---------|-------------|------|
| 1    |    |   | Tetradecane        | 198 | C14H30  | 000629-59-4 | 87   |
| 2    |    |   | Tridecane          | 184 | C13H28  | 000629-50-5 | 86   |
| 3    |    |   | Eicosane           | 282 | C20H42  | 000112-95-8 | 83   |
| 4    |    |   | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 80   |
| 5    |    |   | Heptacosane        | 380 | C27H56  | 000593-49-7 | 80   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF030215\  
Data File : BF077529.D  
Acq On : 2 Mar 2015 18:27  
Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF021915.M  
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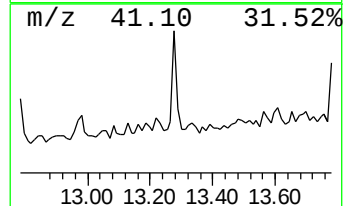
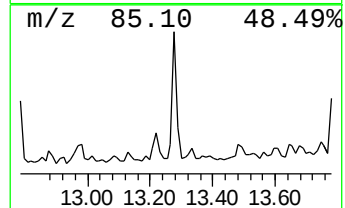
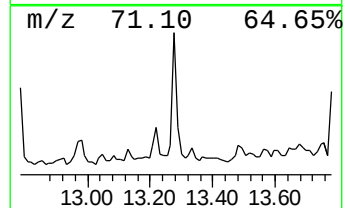
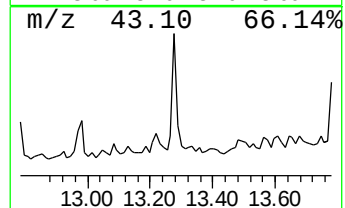
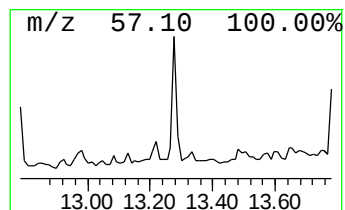
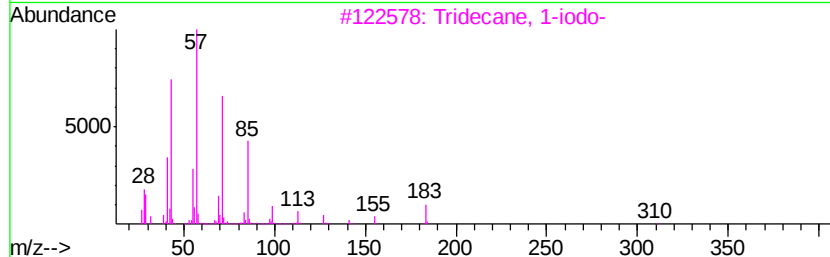
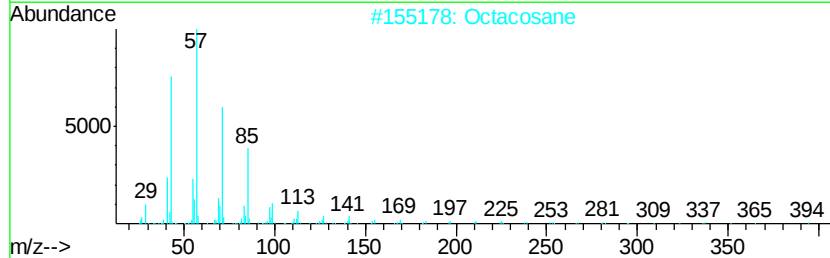
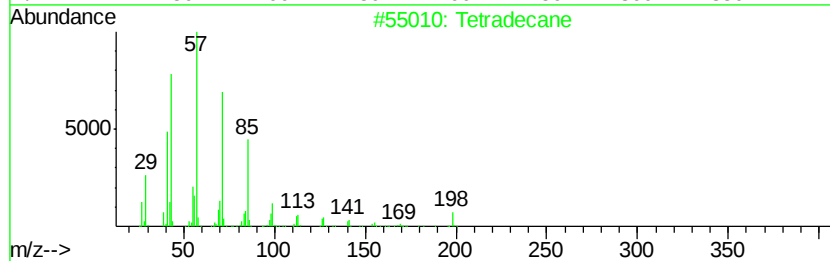
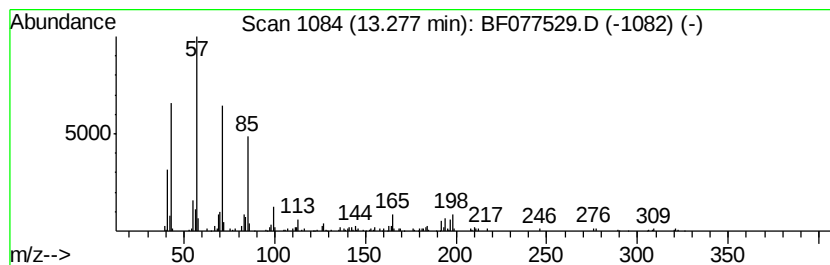
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TIC Integration Parameters: LSCINT.P

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Peak Number 13 Octacosane Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.28 | 2.98 ng | 141414 | Phenanthrene-d10 | 12.85 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane            | 198 | C14H30  | 000629-59-4 | 83   |
| 2    |    | Octacosane             | 394 | C28H58  | 000630-02-4 | 74   |
| 3    |    | Tridecane, 1-iodo-     | 310 | C13H27I | 035599-77-0 | 72   |
| 4    |    | Tetradecane, 2-methyl- | 212 | C15H32  | 001560-95-8 | 64   |
| 5    |    | Tridecane              | 184 | C13H28  | 000629-50-5 | 64   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF030215\  
Data File : BF077529.D  
Acq On : 2 Mar 2015 18:27  
Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

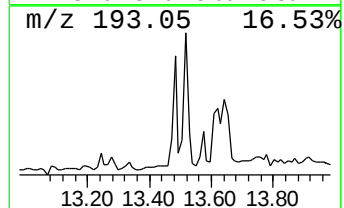
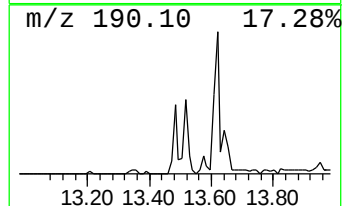
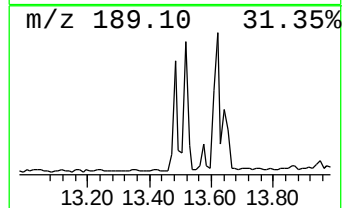
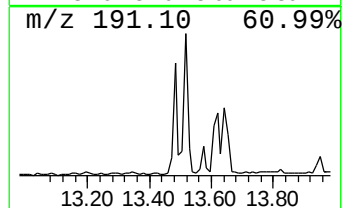
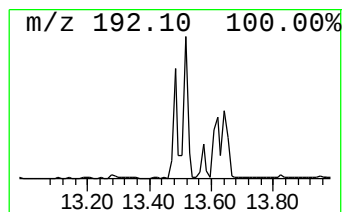
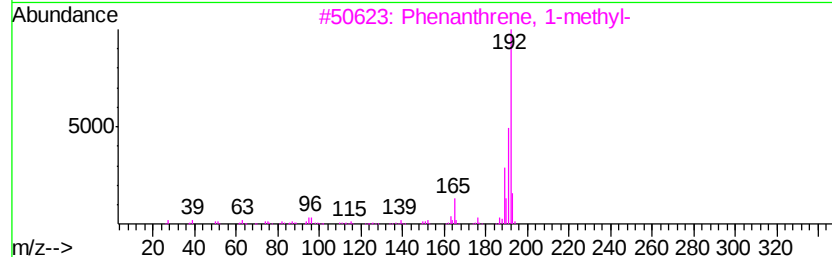
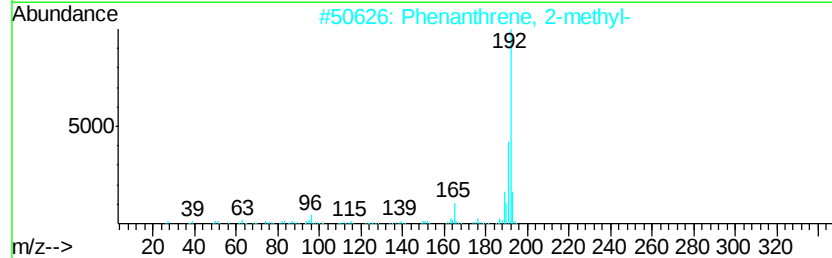
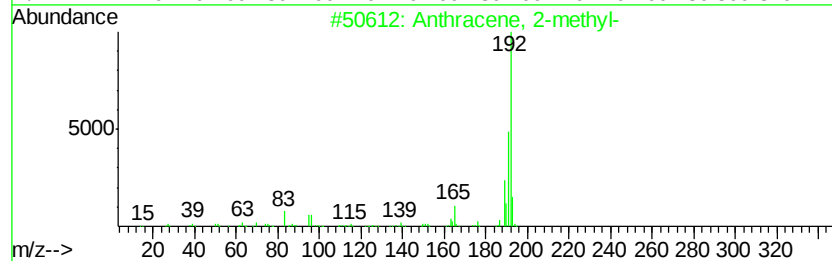
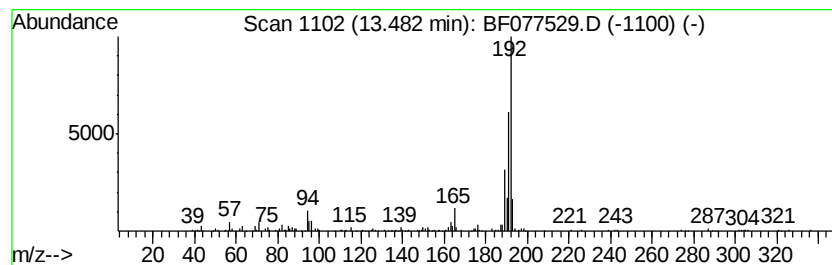
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TIC Integration Parameters: LSCINT.P

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Peak Number 14 Anthracene, 2-methyl- Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.48 | 3.48 ng | 165196 | Phenanthrene-d10 | 12.85 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 96   |
| 2    |    | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 96   |
| 3    |    | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 95   |
| 4    |    | Anthracene, 1-methyl-                 | 192 | C15H12  | 000610-48-0 | 95   |
| 5    |    | 1H-Cyclopropa[1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 92   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030215\  
Data File : BF077529.D  
Acq On : 2 Mar 2015 18:27  
Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

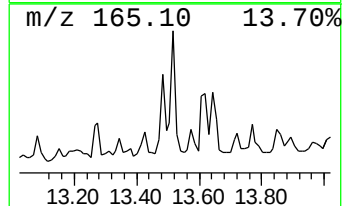
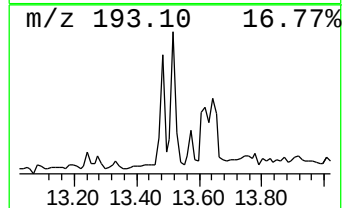
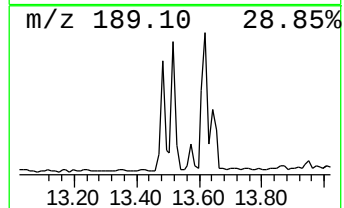
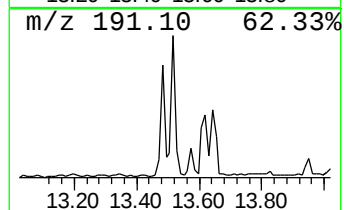
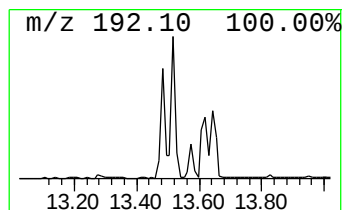
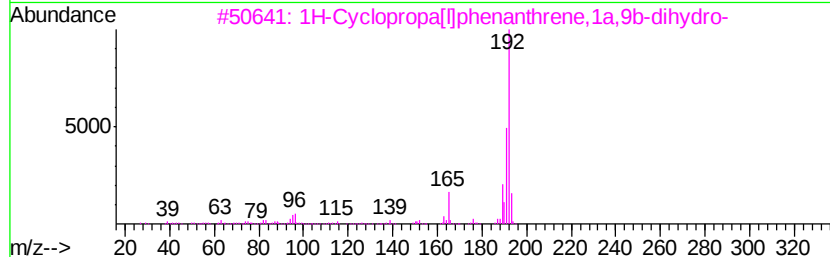
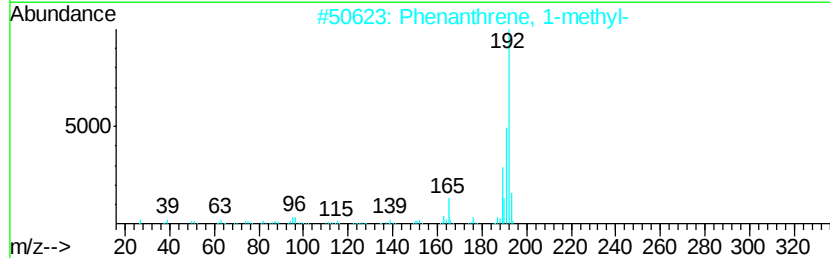
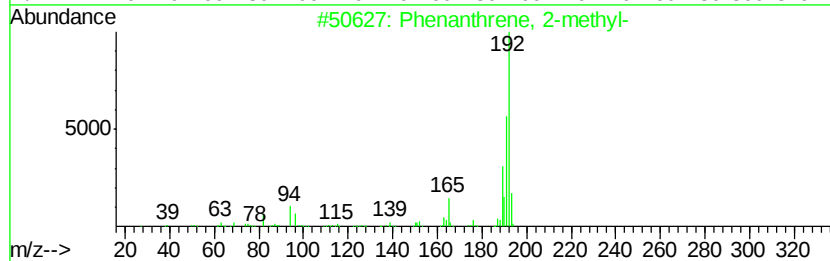
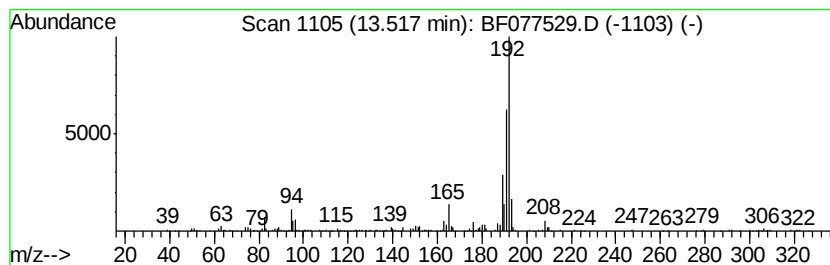
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Phenanthrene, 2-methyl- Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.52 | 4.93 ng | 234356 | Phenanthrene-d10 | 12.85 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 98   |
| 2    |    | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 97   |
| 3    |    | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 96   |
| 4    |    | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 95   |
| 5    |    | 1H-Indene, 2-phenyl-                | 192 | C15H12  | 004505-48-0 | 95   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030215\  
Data File : BF077529.D  
Acq On : 2 Mar 2015 18:27  
Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

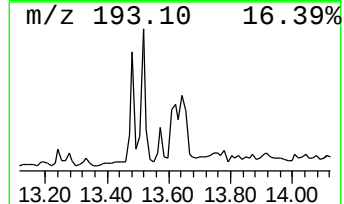
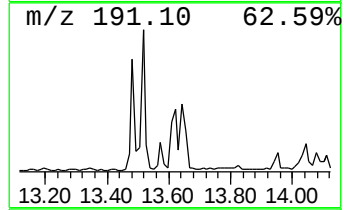
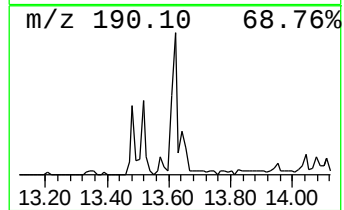
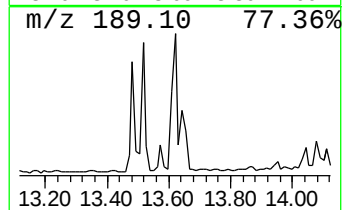
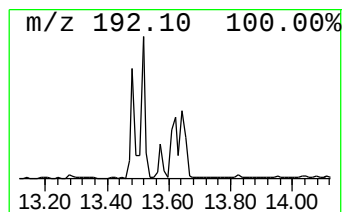
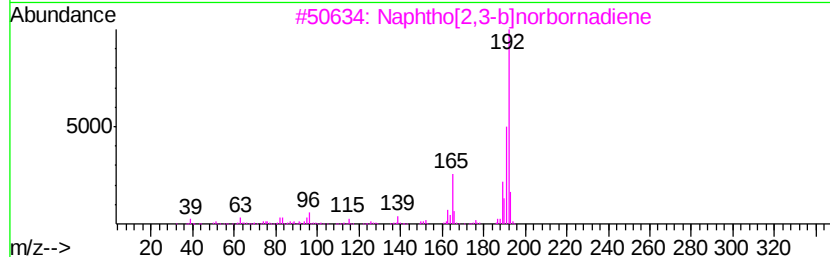
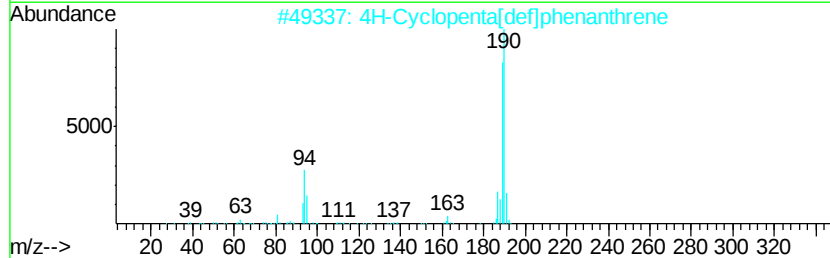
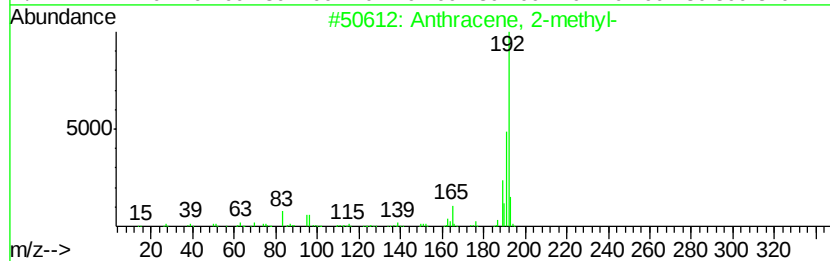
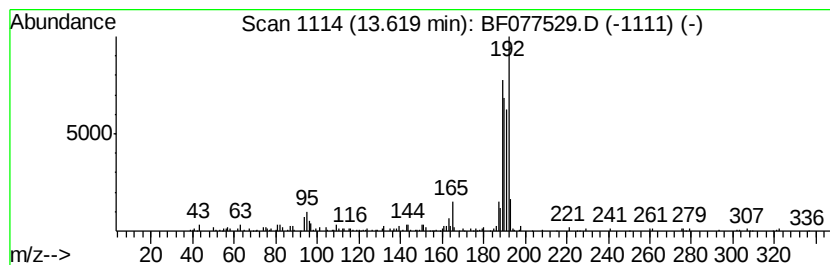
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 4H-Cyclopenta[def]phenanthrene Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.62 | 3.99 ng | 189567 | Phenanthrene-d10 | 12.85 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 2-methyl-          | 192 | C15H12  | 000613-12-7 | 70   |
| 2    |    | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10  | 000203-64-5 | 55   |
| 3    |    | Naphtho[2,3-b]norbornadiene    | 192 | C15H12  | 107426-38-0 | 50   |
| 4    |    | Phenanthrene, 1-methyl-        | 192 | C15H12  | 000832-69-9 | 50   |
| 5    |    | 1H-Indene, 2-phenyl-           | 192 | C15H12  | 004505-48-0 | 50   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030215\  
Data File : BF077529.D  
Acq On : 2 Mar 2015 18:27  
Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

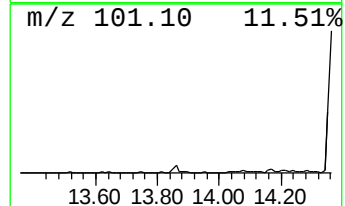
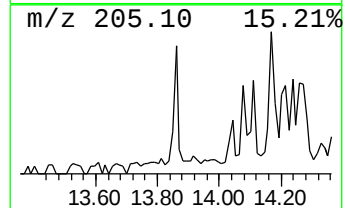
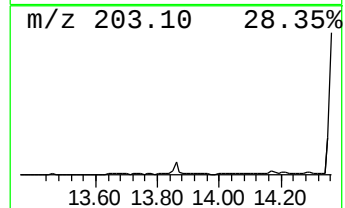
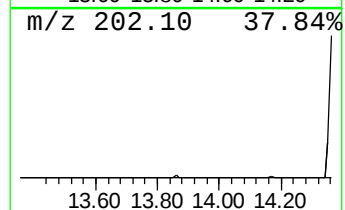
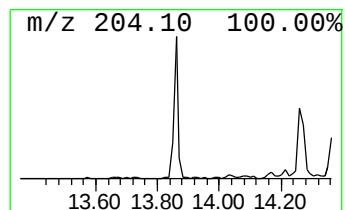
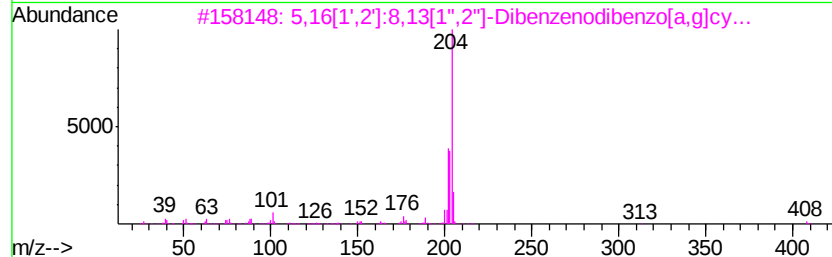
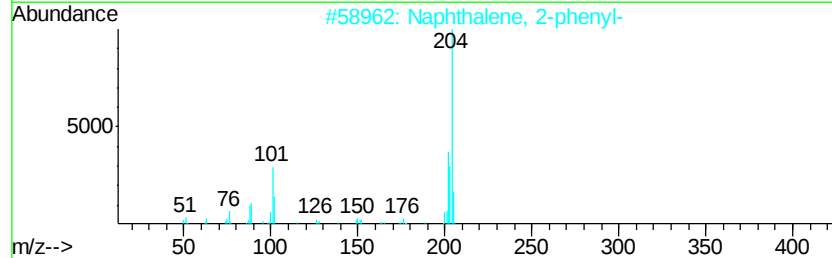
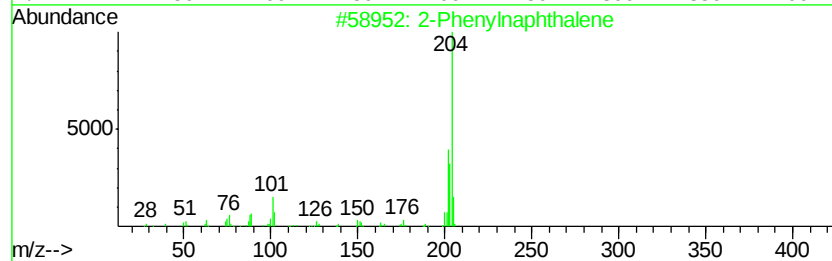
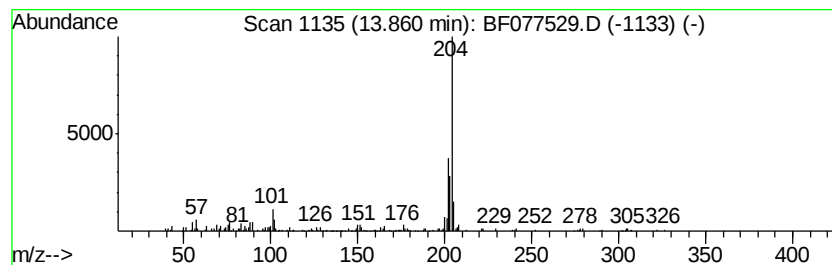
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 2-Phenylnaphthalene Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.86 | 5.19 ng | 246463 | Phenanthrene-d10 | 12.85 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Phenylnaphthalene                 | 204 | C16H12  | 035465-71-5 | 95   |
| 2    |    | Naphthalene, 2-phenyl-              | 204 | C16H12  | 000612-94-2 | 93   |
| 3    |    | 5,16[1',2']8,13[1'',2'']-Dibenz...  | 408 | C32H24  | 005672-97-9 | 80   |
| 4    |    | Naphthalene, 1-phenyl-              | 204 | C16H12  | 000605-02-7 | 64   |
| 5    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12  | 006572-60-7 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030215\  
Data File : BF077529.D  
Acq On : 2 Mar 2015 18:27  
Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

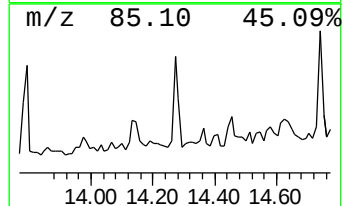
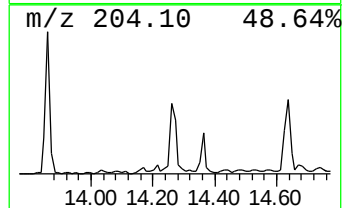
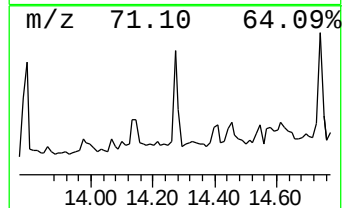
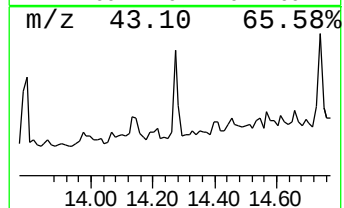
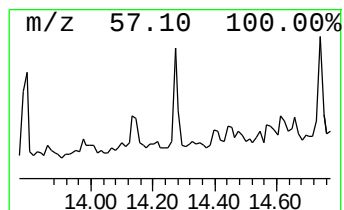
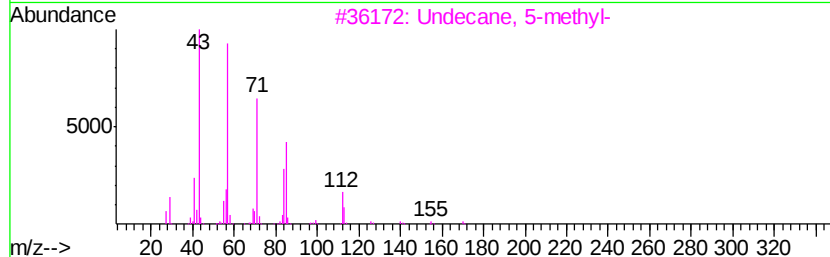
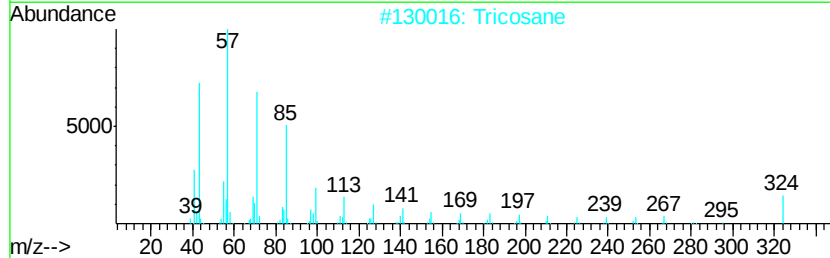
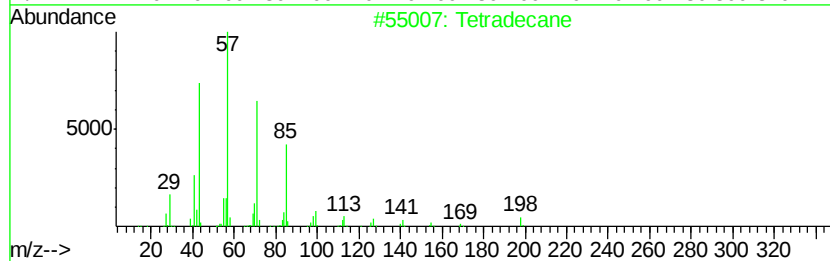
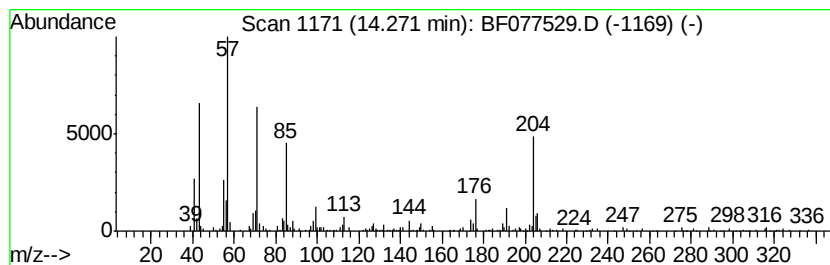
Instrument :  
BNA\_F  
ClientSampleId :  
SB15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.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 18 Tricosane Concentration Rank 16

| R.T.      | EstConc                | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------------|--------|------------------|-------------|------|
| 14.27     | 3.78 ng                | 179815 | Phenanthrene-d10 | 12.85       |      |
| Hit# of 5 | Tentative ID           | MW     | MolForm          | CAS#        | Qual |
| 1         | Tetradecane            | 198    | C14H30           | 000629-59-4 | 78   |
| 2         | Tricosane              | 324    | C23H48           | 000638-67-5 | 60   |
| 3         | Undecane, 5-methyl-    | 170    | C12H26           | 001632-70-8 | 55   |
| 4         | Pentadecane            | 212    | C15H32           | 000629-62-9 | 53   |
| 5         | Tetradecane, 5-methyl- | 212    | C15H32           | 025117-32-2 | 50   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF030215\  
Data File : BF077529.D  
Acq On : 2 Mar 2015 18:27  
Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB15

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

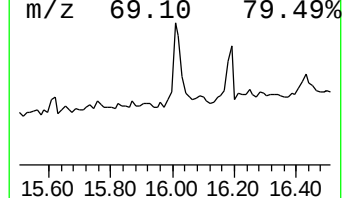
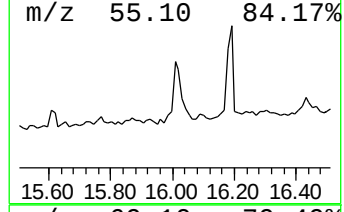
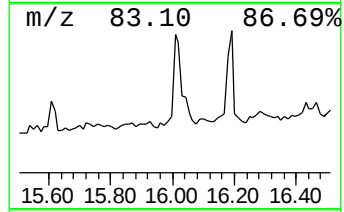
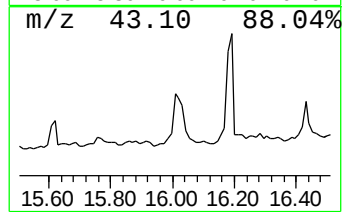
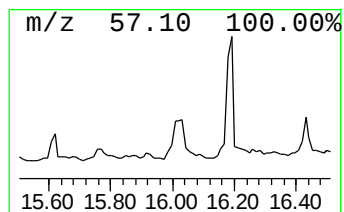
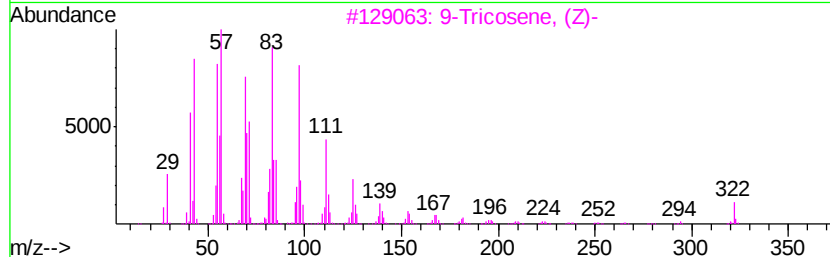
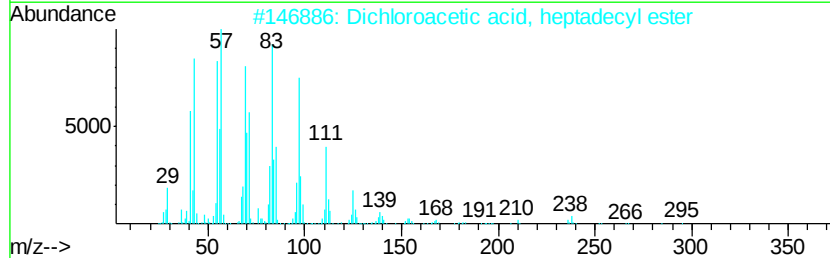
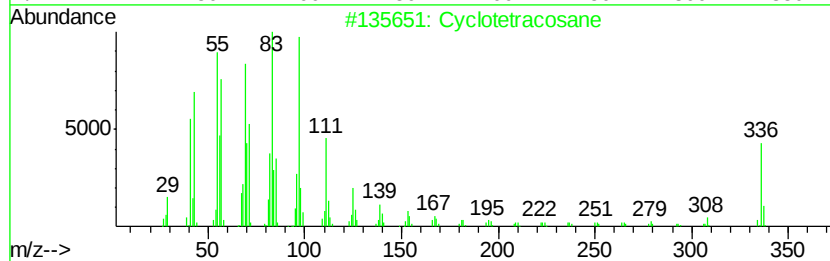
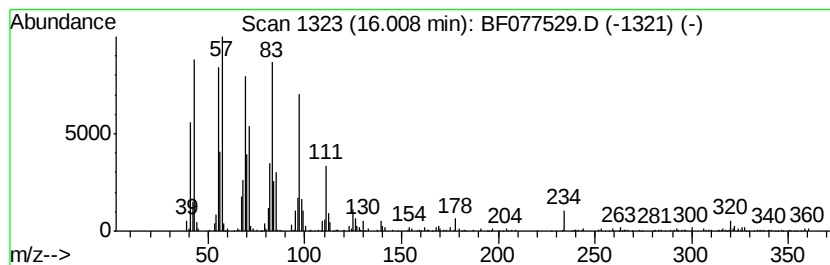
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 Cyclotetracosane Concentration Rank 6

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 16.01 | 20.15 ng | 1642880 | Chrysene-d12     | 16.14 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Cyclotetracosane                    | 336 | C24H48      | 000297-03-0  | 99   |
| 2    |    | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 94   |
| 3    |    | 9-Tricosene, (Z)-                   | 322 | C23H46      | 027519-02-4  | 94   |
| 4    |    | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0  | 91   |
| 5    |    | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1  | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF030215\  
Data File : BF077529.D  
Acq On : 2 Mar 2015 18:27  
Operator : TP/IZ  
Sample : G1399-07  
Misc : S  
ALS Vial : 10 Sample Multiplier: 1

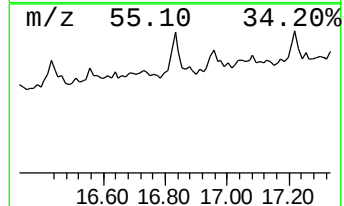
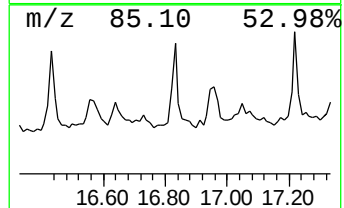
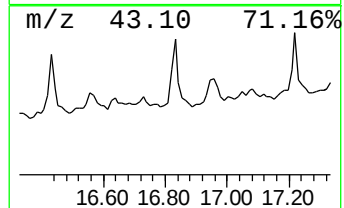
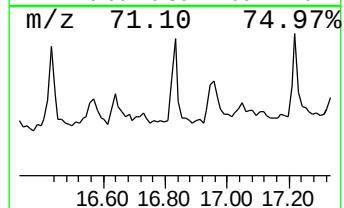
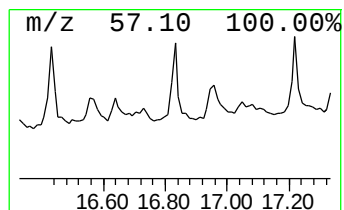
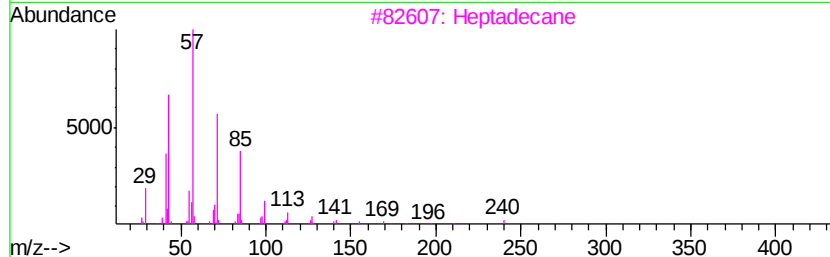
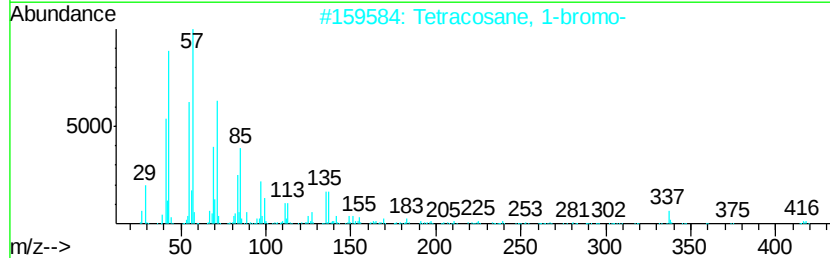
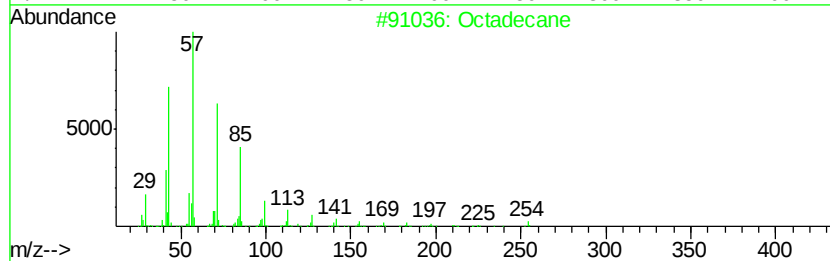
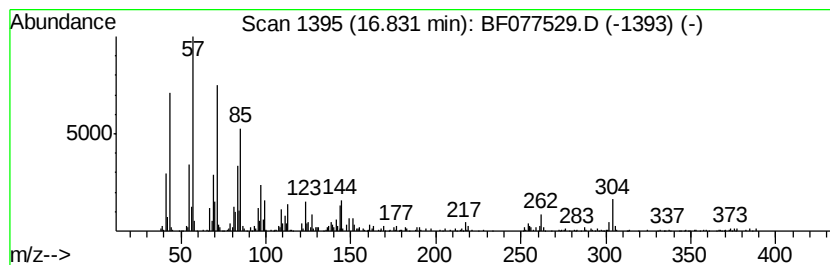
Instrument :  
BNA\_F  
ClientSampleId :  
SB15

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF021915.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 20 Octadecane Concentration Rank 17

| R.T.    | EstConc                 | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------|--------------|------------------|-----------|
| 16.83   | 3.54 ng                 | 288626       | Chrysene-d12     | 16.14     |
| Hit# of | 5                       | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Octadecane              | 254 C18H38   | 000593-45-3      | 90        |
| 2       | Tetracosane, 1-bromo-   | 416 C24H49Br | 006946-24-3      | 58        |
| 3       | Heptadecane             | 240 C17H36   | 000629-78-7      | 53        |
| 4       | Tetracosane             | 338 C24H50   | 000646-31-1      | 53        |
| 5       | 1-Iodo-2-methylundecane | 296 C12H25I  | 073105-67-6      | 53        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030215\  
 Data File : BF077529.D  
 Acq On : 2 Mar 2015 18:27  
 Operator : TP/IZ  
 Sample : G1399-07  
 Misc : S  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB15

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.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 |
| Propane, 2,2-dime... | 1.41  | 195.2   | ng    | 5692010  | 1                     | 7.26  | 583350  | 20.0 |
| Butane, 2-methoxy... | 1.72  | 11.6    | ng    | 337628   | 1                     | 7.26  | 583350  | 20.0 |
| 2-Pentanone, 4-hy... | 5.04  | 14.7    | ng    | 427648   | 1                     | 7.26  | 583350  | 20.0 |
| unknown6.97          | 6.97  | 43.5    | ng    | 1269810  | 1                     | 7.26  | 583350  | 20.0 |
| Hexadecane           | 11.60 | 2.7     | ng    | 121579   | 3                     | 11.01 | 912432  | 20.0 |
| Benzophenone         | 11.91 | 4.3     | ng    | 197845   | 3                     | 11.01 | 912432  | 20.0 |
| Tridecane, 5-propyl- | 12.19 | 4.5     | ng    | 213737   | 4                     | 12.85 | 950514  | 20.0 |
| Tetradecane          | 12.74 | 3.9     | ng    | 185989   | 4                     | 12.85 | 950514  | 20.0 |
| Octacosane           | 13.28 | 3.0     | ng    | 141414   | 4                     | 12.85 | 950514  | 20.0 |
| Anthracene, 2-met... | 13.48 | 3.5     | ng    | 165196   | 4                     | 12.85 | 950514  | 20.0 |
| Phenanthrene, 2-m... | 13.52 | 4.9     | ng    | 234356   | 4                     | 12.85 | 950514  | 20.0 |
| 4H-Cyclopenta[def... | 13.62 | 4.0     | ng    | 189567   | 4                     | 12.85 | 950514  | 20.0 |
| 2-Phenylnaphthalene  | 13.86 | 5.2     | ng    | 246463   | 4                     | 12.85 | 950514  | 20.0 |
| Tricosane            | 14.27 | 3.8     | ng    | 179815   | 4                     | 12.85 | 950514  | 20.0 |
| Cyclotetracosane     | 16.01 | 20.1    | ng    | 1642880  | 5                     | 16.14 | 1630950 | 20.0 |
| Octadecane           | 16.83 | 3.5     | ng    | 288626   | 5                     | 16.14 | 1630950 | 20.0 |