

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051215\  
 Data File : BF079158.D  
 Acq On : 12 May 2015 15:27  
 Operator : TP/IZ  
 Sample : G2155-07  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-44AS

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-BF043015.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         | 1.427       | 18            | 21          | 24           | rVB      | 4168596        | 4544299       | 100.00%         | 13.395%       |
| 2         | 1.564       | 30            | 33          | 41           | rVB      | 129951         | 242084        | 5.33%           | 0.714%        |
| 3         | 1.736       | 45            | 48          | 56           | rVV2     | 275577         | 541211        | 11.91%          | 1.595%        |
| 4         | 1.850       | 56            | 58          | 91           | rVB      | 1877468        | 3420369       | 75.27%          | 10.082%       |
| 5         | 5.073       | 338           | 340         | 345          | rVB      | 63596          | 81695         | 1.80%           | 0.241%        |
| 6         | 5.576       | 382           | 384         | 387          | rBV      | 906629         | 1273876       | 28.03%          | 3.755%        |
| 7         | 6.387       | 452           | 455         | 457          | rBV      | 121839         | 127640        | 2.81%           | 0.376%        |
| 8         | 6.845       | 493           | 495         | 498          | rBV      | 1435426        | 1290540       | 28.40%          | 3.804%        |
| 9         | 6.993       | 506           | 508         | 511          | rBV      | 1517881        | 1376177       | 30.28%          | 4.057%        |
| 10        | 7.222       | 526           | 528         | 531          | rBV      | 59946          | 52420         | 1.15%           | 0.155%        |
| 11        | 7.279       | 531           | 533         | 536          | rBV      | 417446         | 384072        | 8.45%           | 1.132%        |
| 12        | 7.462       | 547           | 549         | 552          | rVB      | 758186         | 1046110       | 23.02%          | 3.084%        |
| 13        | 7.976       | 591           | 594         | 596          | rBV      | 767485         | 847942        | 18.66%          | 2.499%        |
| 14        | 8.856       | 669           | 671         | 674          | rBV      | 644330         | 581452        | 12.80%          | 1.714%        |
| 15        | 10.205      | 786           | 789         | 791          | rBV      | 1966529        | 1733671       | 38.15%          | 5.110%        |
| 16        | 10.708      | 831           | 833         | 835          | rBV      | 90703          | 82754         | 1.82%           | 0.244%        |
| 17        | 11.028      | 859           | 861         | 863          | rBV      | 515846         | 625242        | 13.76%          | 1.843%        |
| 18        | 11.714      | 919           | 921         | 923          | rBV      | 66017          | 62300         | 1.37%           | 0.184%        |
| 19        | 12.011      | 944           | 947         | 950          | rBV      | 1115161        | 1139364       | 25.07%          | 3.358%        |
| 20        | 12.765      | 1009          | 1013        | 1015         | rBV2     | 31004          | 50171         | 1.10%           | 0.148%        |
| 21        | 12.880      | 1020          | 1023        | 1024         | rBV      | 668776         | 690028        | 15.18%          | 2.034%        |
| 22        | 12.902      | 1024          | 1025        | 1027         | rVB      | 591878         | 622434        | 13.70%          | 1.835%        |
| 23        | 12.971      | 1027          | 1031        | 1033         | rBV      | 165883         | 169657        | 3.73%           | 0.500%        |
| 24        | 13.177      | 1047          | 1049        | 1051         | rVB      | 71864          | 59139         | 1.30%           | 0.174%        |
| 25        | 13.302      | 1058          | 1060        | 1063         | rVB      | 33935          | 48931         | 1.08%           | 0.144%        |
| 26        | 13.508      | 1075          | 1078        | 1079         | rBV      | 81868          | 81006         | 1.78%           | 0.239%        |
| 27        | 13.542      | 1079          | 1081        | 1083         | rVB      | 115392         | 116480        | 2.56%           | 0.343%        |
| 28        | 13.600      | 1083          | 1086        | 1087         | rBV2     | 60221          | 75070         | 1.65%           | 0.221%        |
| 29        | 13.634      | 1087          | 1089        | 1091         | rBV2     | 85522          | 126766        | 2.79%           | 0.374%        |
| 30        | 13.885      | 1109          | 1111        | 1117         | rBV2     | 55255          | 119470        | 2.63%           | 0.352%        |
| 31        | 14.194      | 1136          | 1138        | 1140         | rBV      | 53231          | 67474         | 1.48%           | 0.199%        |
| 32        | 14.240      | 1140          | 1142        | 1145         | rVB3     | 33555          | 54684         | 1.20%           | 0.161%        |
| 33        | 14.297      | 1145          | 1147        | 1152         | rVB3     | 40309          | 78603         | 1.73%           | 0.232%        |
| 34        | 14.388      | 1152          | 1155        | 1157         | rBV      | 929318         | 941572        | 20.72%          | 2.775%        |

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 BNA\_F  
 ClientSampleId :  
 SB-44AS

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-BF043015.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 14.571 | 1168 | 1171 | 1172 | rBV2 | 33723   | 50004   | 1.10%  | 0.147% |
| 36 | 14.663 | 1176 | 1179 | 1182 | rBV  | 640279  | 935621  | 20.59% | 2.758% |
| 37 | 14.834 | 1192 | 1194 | 1195 | rBV  | 44950   | 61399   | 1.35%  | 0.181% |
| 38 | 14.880 | 1195 | 1198 | 1200 | rVV  | 1855383 | 1960479 | 43.14% | 5.779% |
| 39 | 14.960 | 1200 | 1205 | 1207 | rVV2 | 42535   | 75392   | 1.66%  | 0.222% |
| 40 | 15.063 | 1209 | 1214 | 1215 | rBV4 | 48685   | 101591  | 2.24%  | 0.299% |
| 41 | 15.085 | 1215 | 1216 | 1218 | rVB  | 78028   | 94838   | 2.09%  | 0.280% |
| 42 | 15.177 | 1222 | 1224 | 1226 | rBV  | 67319   | 75110   | 1.65%  | 0.221% |
| 43 | 15.223 | 1226 | 1228 | 1230 | rBV  | 89296   | 114868  | 2.53%  | 0.339% |
| 44 | 15.337 | 1236 | 1238 | 1240 | rBV  | 51134   | 59854   | 1.32%  | 0.176% |
| 45 | 15.531 | 1253 | 1255 | 1258 | rBV  | 54845   | 86879   | 1.91%  | 0.256% |
| 46 | 15.737 | 1270 | 1273 | 1277 | rVB  | 66865   | 105279  | 2.32%  | 0.310% |
| 47 | 15.886 | 1283 | 1286 | 1288 | rBV  | 66769   | 114479  | 2.52%  | 0.337% |
| 48 | 15.931 | 1288 | 1290 | 1293 | rVV2 | 64413   | 147662  | 3.25%  | 0.435% |
| 49 | 16.011 | 1296 | 1297 | 1302 | rVB  | 66517   | 93497   | 2.06%  | 0.276% |
| 50 | 16.091 | 1302 | 1304 | 1310 | rBV3 | 208306  | 340197  | 7.49%  | 1.003% |
| 51 | 16.217 | 1310 | 1315 | 1317 | rBV2 | 786628  | 1441356 | 31.72% | 4.249% |
| 52 | 16.251 | 1317 | 1318 | 1321 | rVV  | 352679  | 431917  | 9.50%  | 1.273% |
| 53 | 16.354 | 1324 | 1327 | 1329 | rBV2 | 62529   | 96891   | 2.13%  | 0.286% |
| 54 | 16.491 | 1337 | 1339 | 1341 | rVB2 | 33766   | 51374   | 1.13%  | 0.151% |
| 55 | 16.537 | 1341 | 1343 | 1345 | rBV  | 84052   | 94498   | 2.08%  | 0.279% |
| 56 | 16.754 | 1359 | 1362 | 1364 | rVV  | 82468   | 121022  | 2.66%  | 0.357% |
| 57 | 16.800 | 1364 | 1366 | 1369 | rVV  | 36484   | 49590   | 1.09%  | 0.146% |
| 58 | 16.971 | 1378 | 1381 | 1385 | rVV3 | 60292   | 164343  | 3.62%  | 0.484% |
| 59 | 17.040 | 1385 | 1387 | 1391 | rVB2 | 37056   | 61657   | 1.36%  | 0.182% |
| 60 | 17.177 | 1397 | 1399 | 1401 | rBV2 | 39483   | 62357   | 1.37%  | 0.184% |
| 61 | 17.394 | 1416 | 1418 | 1423 | rBV3 | 52669   | 124886  | 2.75%  | 0.368% |
| 62 | 17.611 | 1434 | 1437 | 1444 | rBV  | 342591  | 911462  | 20.06% | 2.687% |
| 63 | 17.749 | 1447 | 1449 | 1451 | rVB  | 72843   | 91363   | 2.01%  | 0.269% |
| 64 | 17.829 | 1454 | 1456 | 1458 | rBV  | 42608   | 79238   | 1.74%  | 0.234% |
| 65 | 17.966 | 1465 | 1468 | 1472 | rBV  | 243300  | 309737  | 6.82%  | 0.913% |
| 66 | 18.034 | 1472 | 1474 | 1477 | rVB  | 361407  | 434934  | 9.57%  | 1.282% |
| 67 | 18.103 | 1477 | 1480 | 1482 | rBV  | 530761  | 810045  | 17.83% | 2.388% |
| 68 | 18.777 | 1537 | 1539 | 1543 | rBV3 | 31224   | 67682   | 1.49%  | 0.200% |
| 69 | 19.429 | 1593 | 1596 | 1600 | rVB2 | 38913   | 81443   | 1.79%  | 0.240% |
| 70 | 19.589 | 1607 | 1610 | 1616 | rVB2 | 196142  | 466831  | 10.27% | 1.376% |
| 71 | 19.772 | 1623 | 1626 | 1629 | rBV2 | 50385   | 132883  | 2.92%  | 0.392% |

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ClientSampleId :  
SB-44AS

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-BF043015.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 72 | 19.840 | 1629 | 1632 | 1634 | rVV2 | 33731  | 74373  | 1.64% | 0.219% |
| 73 | 20.023 | 1644 | 1648 | 1659 | rVB  | 179003 | 411520 | 9.06% | 1.213% |
| 74 | 20.252 | 1664 | 1668 | 1673 | rVB2 | 52499  | 181771 | 4.00% | 0.536% |

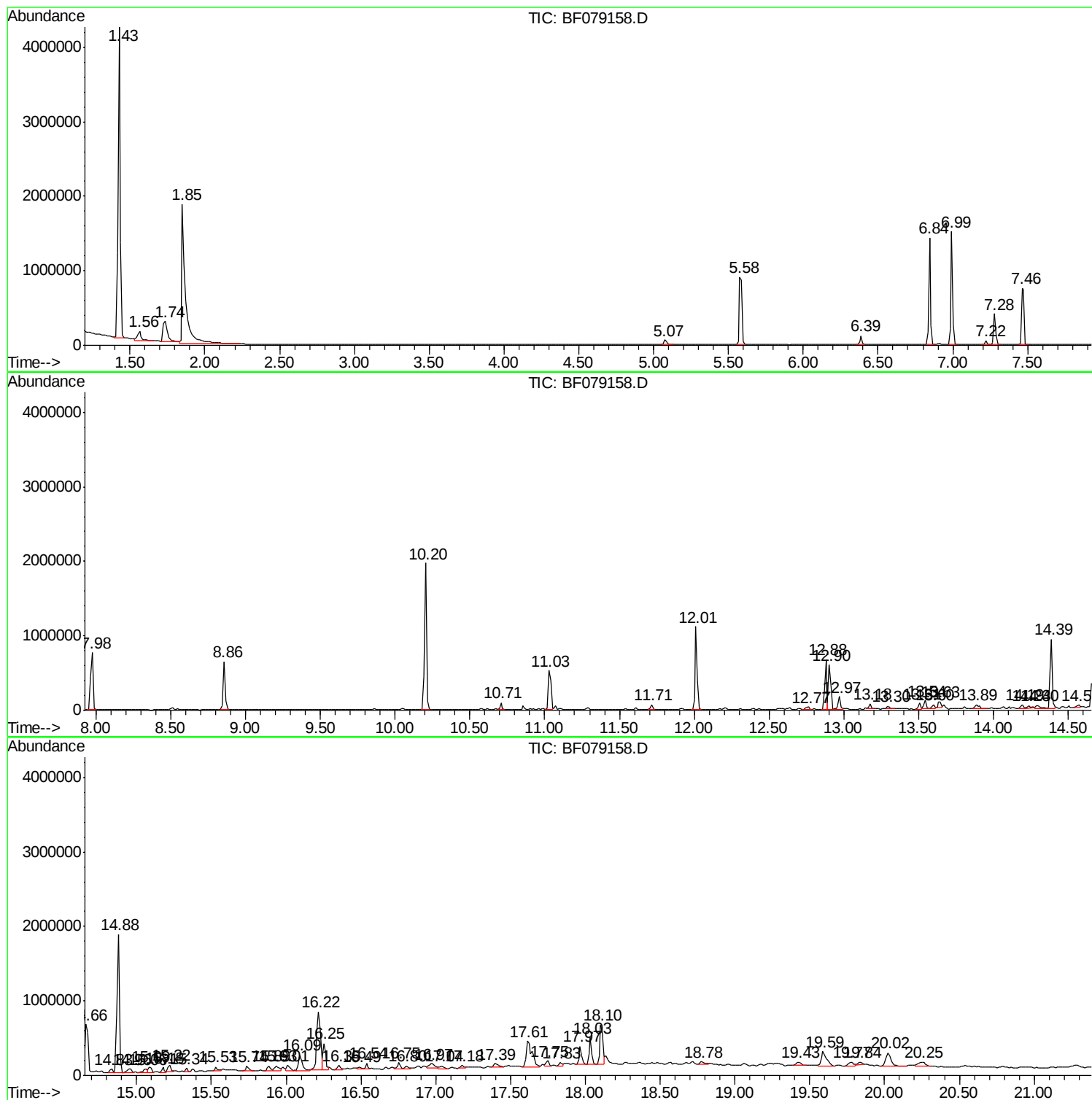
Sum of corrected areas: 33925025

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051215\  
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Instrument :  
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ClientSampleId :  
SB-44AS

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.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\BF051215\  
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Acq On : 12 May 2015 15:27  
Operator : TP/IZ  
Sample : G2155-07  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
SB-44AS

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

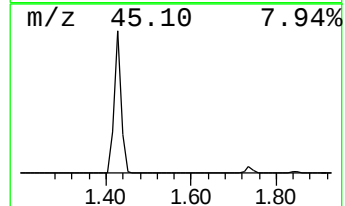
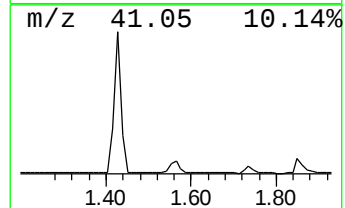
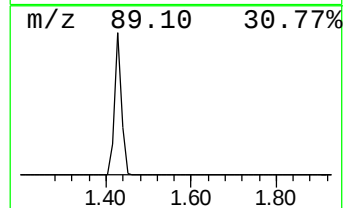
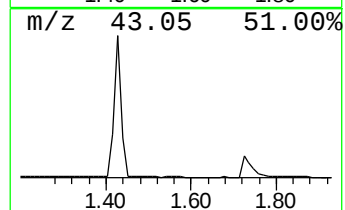
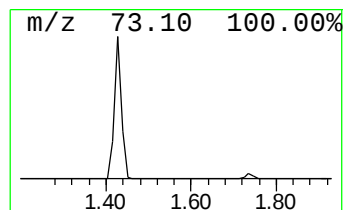
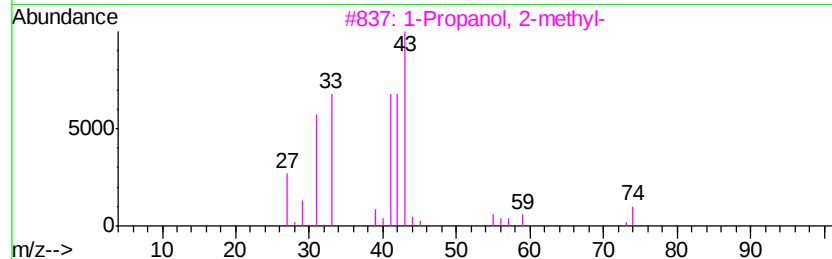
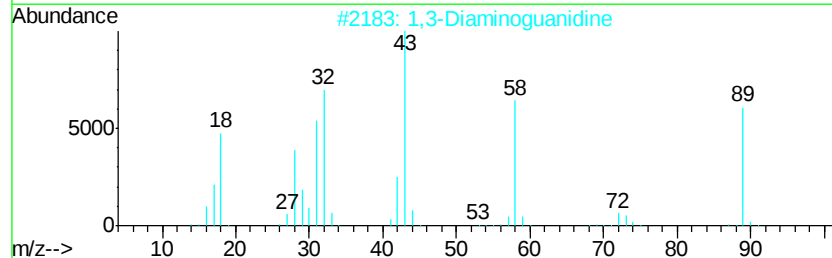
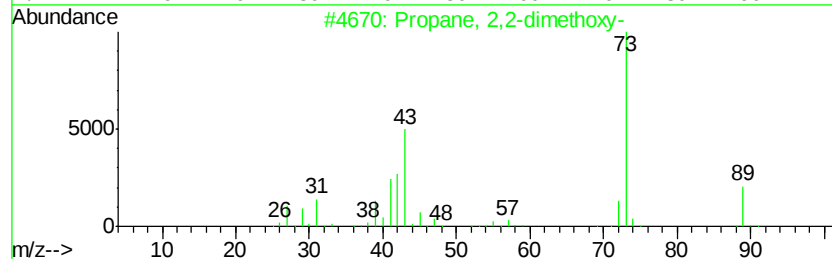
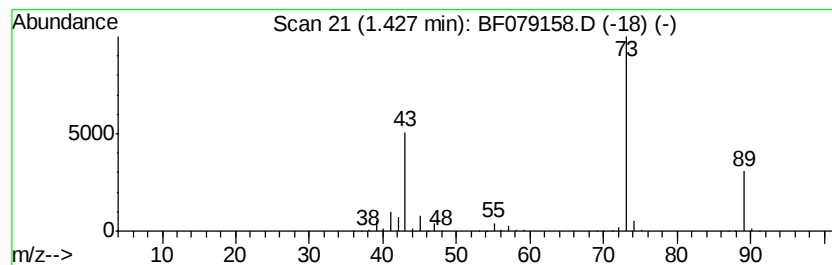
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown1.43 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 1.43 | 236.64 ng | 4544300 | 1,4-Dichlorobenzene-d4 | 7.28 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Propane, 2,2-dimethoxy-             | 104 | C5H12O2  | 000077-76-9 | 38   |
| 2    |    | 1,3-Diaminoguanidine                | 89  | CH7N5    | 004364-78-7 | 9    |
| 3    |    | 1-Propanol, 2-methyl-               | 74  | C4H10O   | 000078-83-1 | 9    |
| 4    |    | 1-Hexen-4-ol, 1-chloro-3,5-dimet... | 162 | C8H15ClO | 100244-09-5 | 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-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

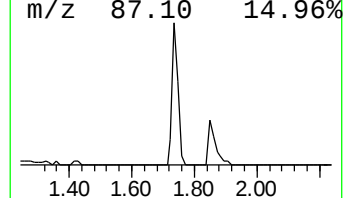
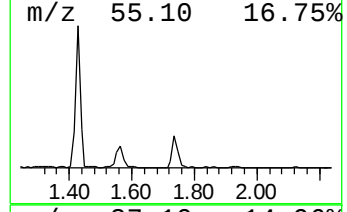
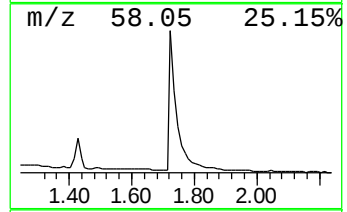
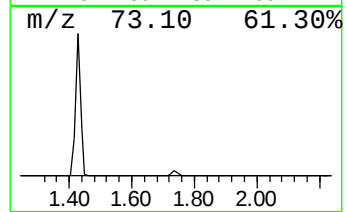
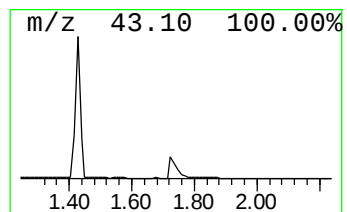
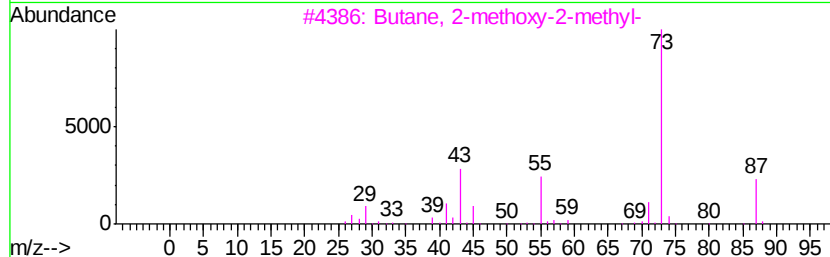
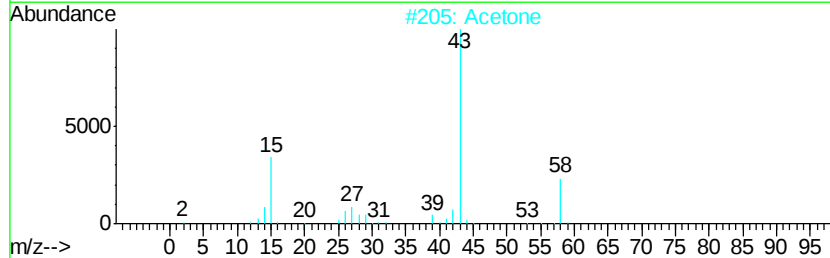
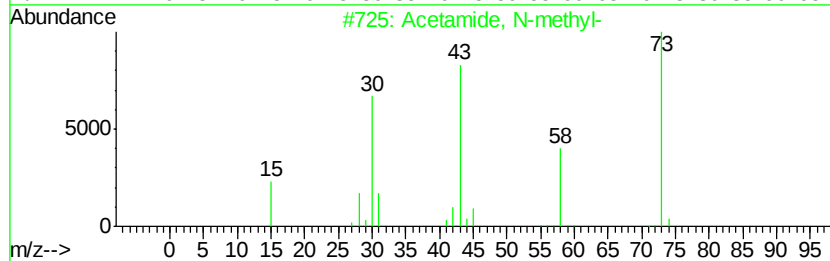
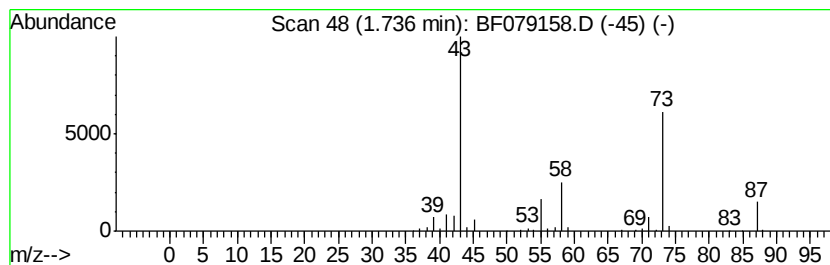
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown1.74 Concentration Rank 5

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 1.74 | 28.18 ng | 541211 | 1,4-Dichlorobenzene-d4 | 7.28 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Acetamide, N-methyl-        | 73  | C3H7NO  | 000079-16-3 | 47   |
| 2    |    | Acetone                     | 58  | C3H6O   | 000067-64-1 | 37   |
| 3    |    | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 35   |
| 4    |    | N-Ethylformamide            | 73  | C3H7NO  | 000627-45-2 | 25   |
| 5    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 9    |



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SB-44AS

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

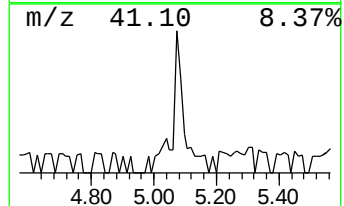
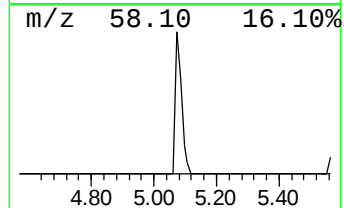
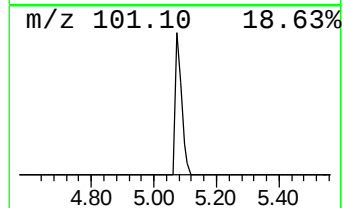
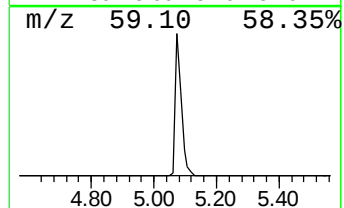
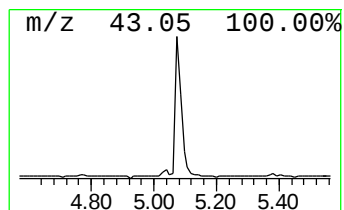
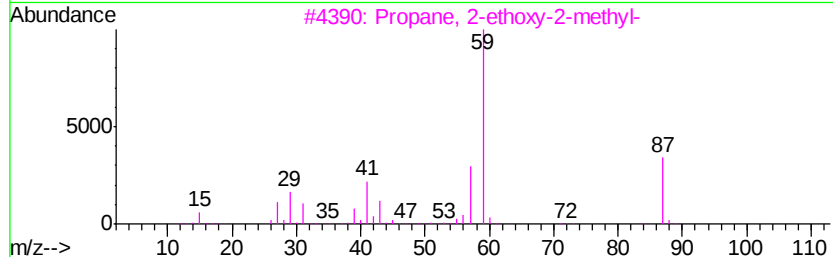
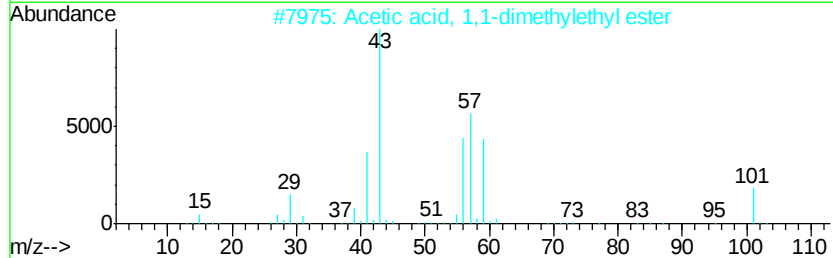
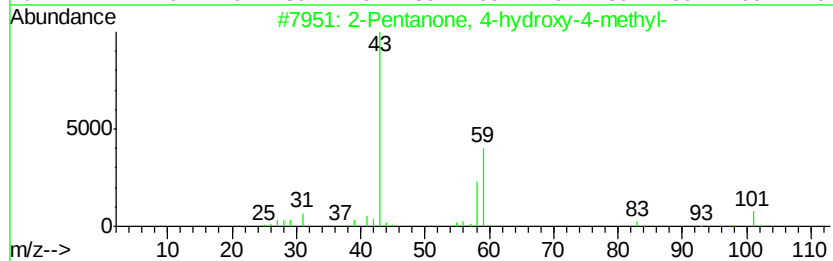
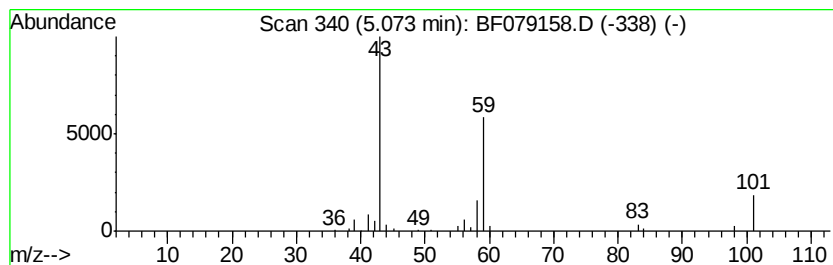
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 11

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.07 | 4.25 ng | 81695 | 1,4-Dichlorobenzene-d4 | 7.28 |

| Hit# of | 5                                   | Tentative ID | MW      | MolForm      | CAS# | Qual |
|---------|-------------------------------------|--------------|---------|--------------|------|------|
| 1       | 2-Pentanone, 4-hydroxy-4-methyl-    | 116          | C6H12O2 | 000123-42-2  | 50   |      |
| 2       | Acetic acid, 1,1-dimethylethyl e... | 116          | C6H12O2 | 000540-88-5  | 38   |      |
| 3       | Propane, 2-ethoxy-2-methyl-         | 102          | C6H14O  | 000637-92-3  | 23   |      |
| 4       | Butyl aldoxime, 3-methyl-, syn-     | 101          | C5H11NO | 005780-40-5  | 23   |      |
| 5       | t-Butyl ethyl ether                 | 102          | C6H14O  | 1000118-18-4 | 23   |      |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051215\  
Data File : BF079158.D  
Acq On : 12 May 2015 15:27  
Operator : TP/IZ  
Sample : G2155-07  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-44AS

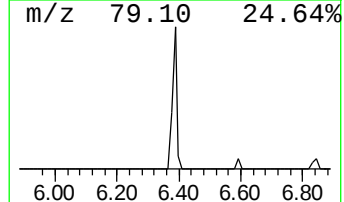
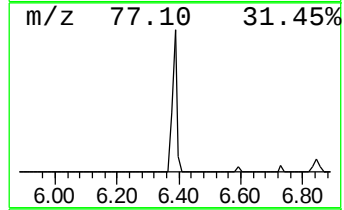
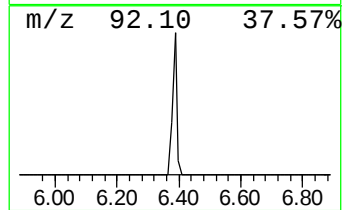
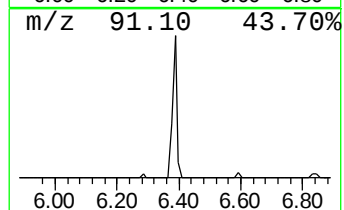
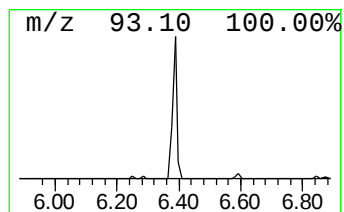
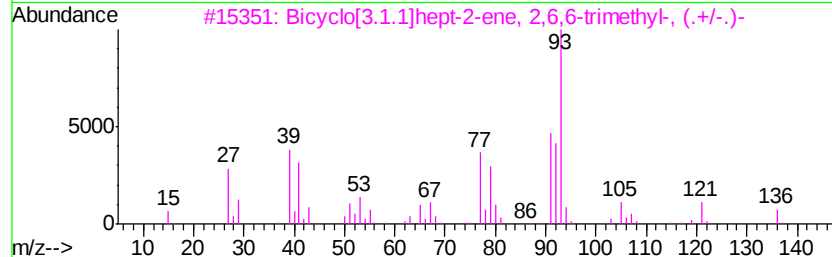
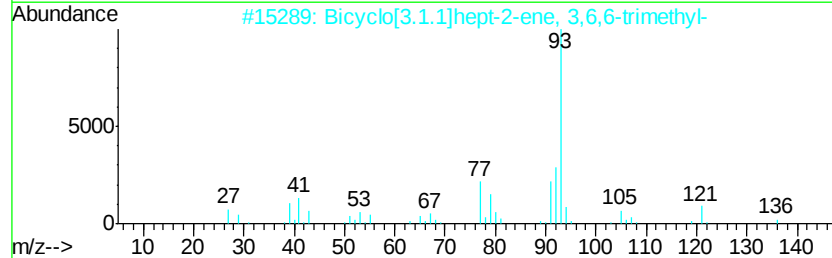
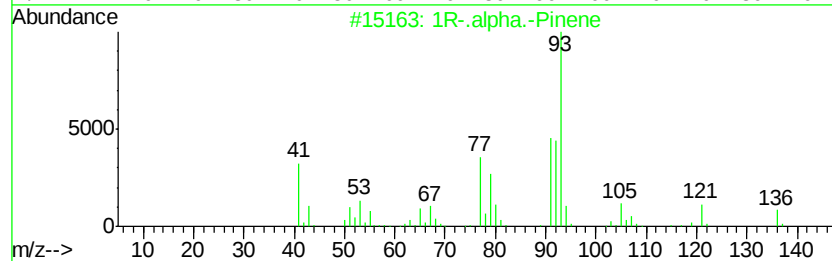
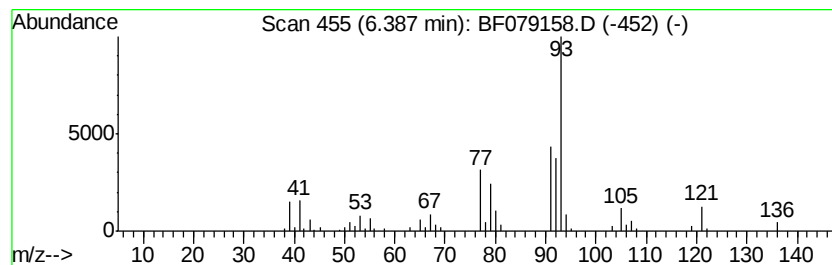
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 1R-.alpha.-Pinene Concentration Rank 8

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.39 | 6.65 ng | 127640 | 1,4-Dichlorobenzene-d4 | 7.28 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1R-.alpha.-Pinene                   | 136 | C10H16  | 007785-70-8 | 95   |
| 2    |    | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... | 136 | C10H16  | 004889-83-2 | 94   |
| 3    |    | Bicyclo[3.1.1]hept-2-ene, 2,6,6-... | 136 | C10H16  | 002437-95-8 | 94   |
| 4    |    | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16  | 000508-32-7 | 91   |
| 5    |    | .alpha.-Pinene                      | 136 | C10H16  | 000080-56-8 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051215\  
Data File : BF079158.D  
Acq On : 12 May 2015 15:27  
Operator : TP/IZ  
Sample : G2155-07  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-44AS

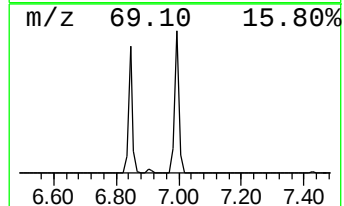
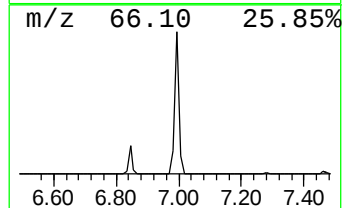
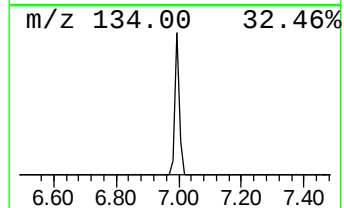
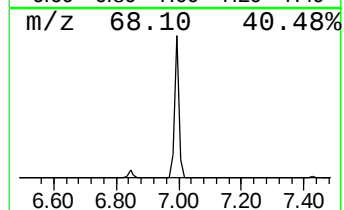
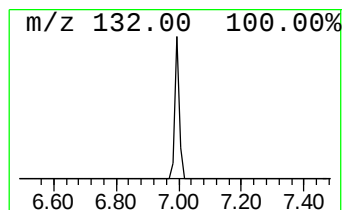
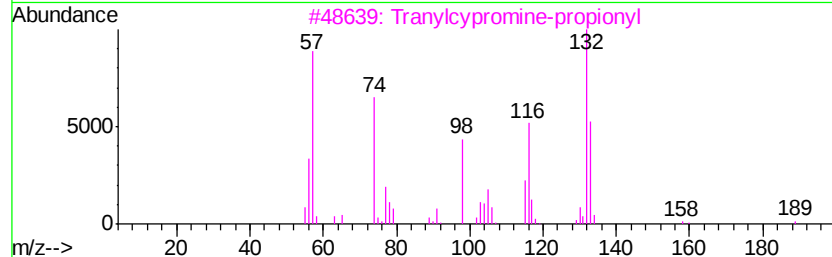
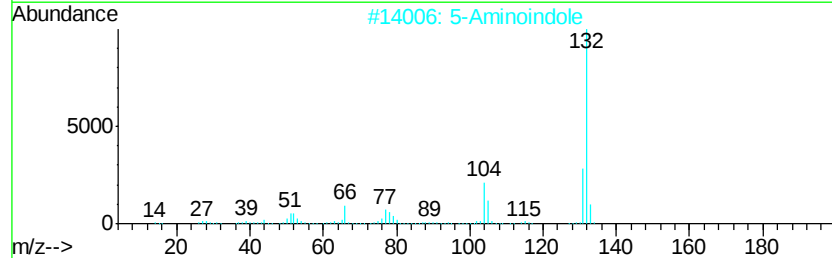
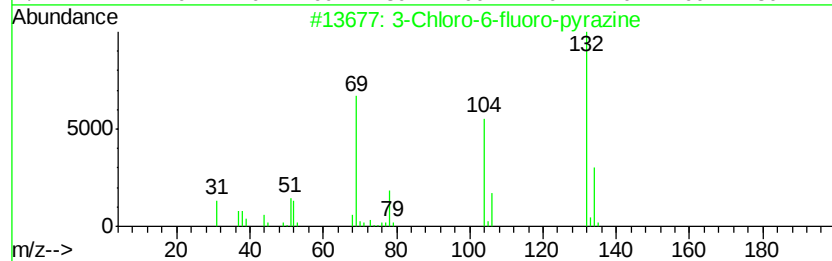
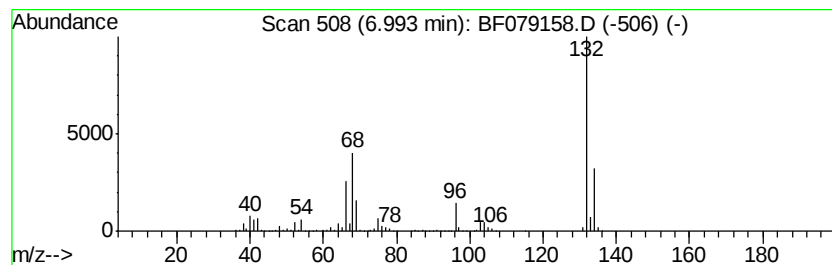
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 unknown6.99 Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.99 | 71.66 ng | 1376180 | 1,4-Dichlorobenzene-d4 | 7.28 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|---|----------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    |   | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    |   | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    |   | 4-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-60-2  | 9    |
| 5    |    |   | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051215\  
Data File : BF079158.D  
Acq On : 12 May 2015 15:27  
Operator : TP/IZ  
Sample : G2155-07  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-44AS

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

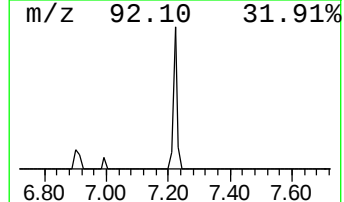
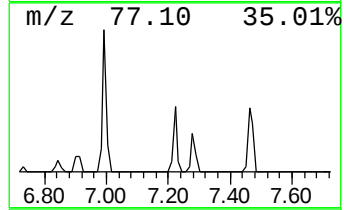
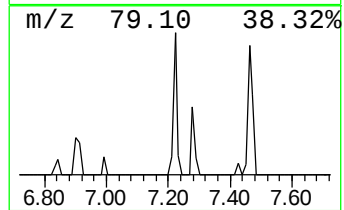
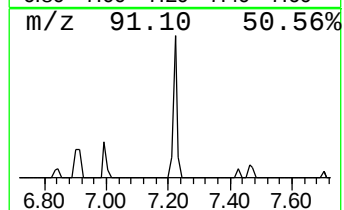
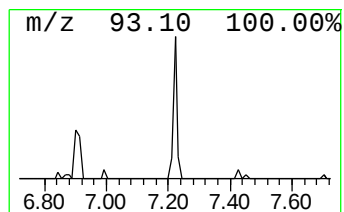
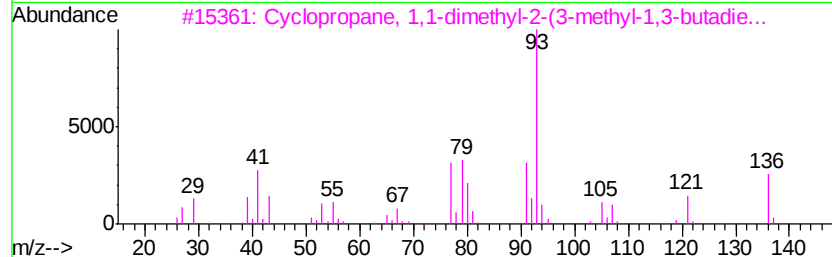
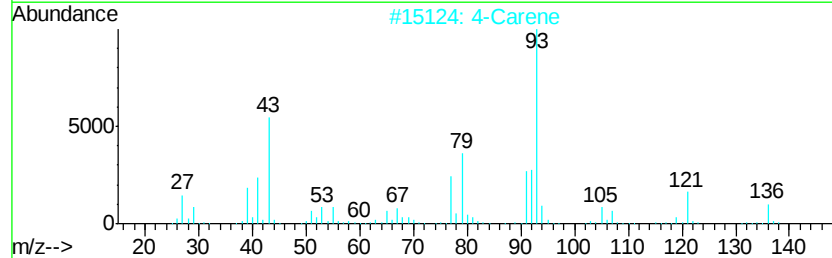
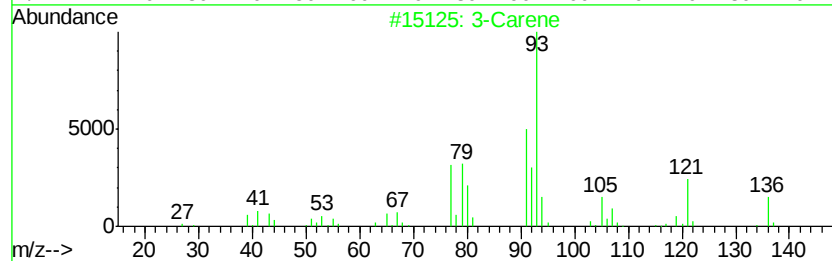
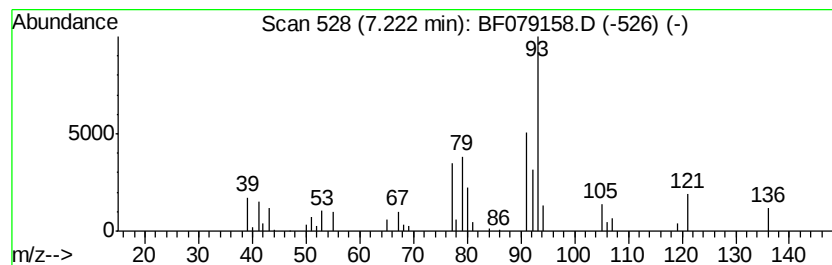
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 3-Carene Concentration Rank 17

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 7.22 | 2.73 ng | 52420 | 1,4-Dichlorobenzene-d4 | 7.28 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 3-Carene                            | 136 | C10H16  | 013466-78-9  | 95   |
| 2    |    | 4-Carene                            | 136 | C10H16  | 1000150-36-1 | 93   |
| 3    |    | Cyclopropane, 1,1-dimethyl-2-(3-... | 136 | C10H16  | 068998-21-0  | 91   |
| 4    |    | Bicyclo[4.1.0]hept-3-ene, 3,7,7-... | 136 | C10H16  | 000498-15-7  | 90   |
| 5    |    | 4-Carene, (1S,3S,6R)-(-)-           | 136 | C10H16  | 005208-50-4  | 87   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051215\  
Data File : BF079158.D  
Acq On : 12 May 2015 15:27  
Operator : TP/IZ  
Sample : G2155-07  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-44AS

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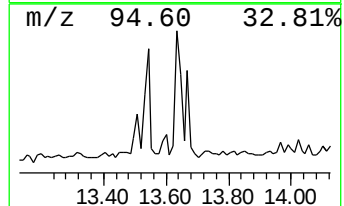
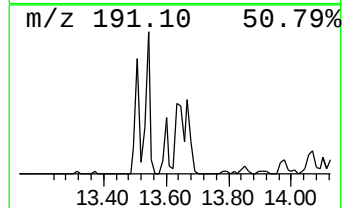
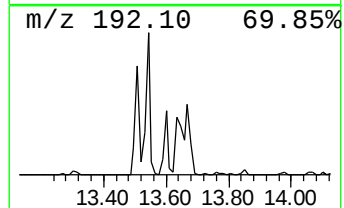
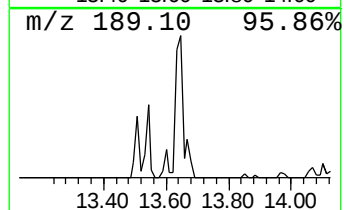
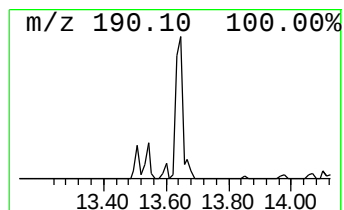
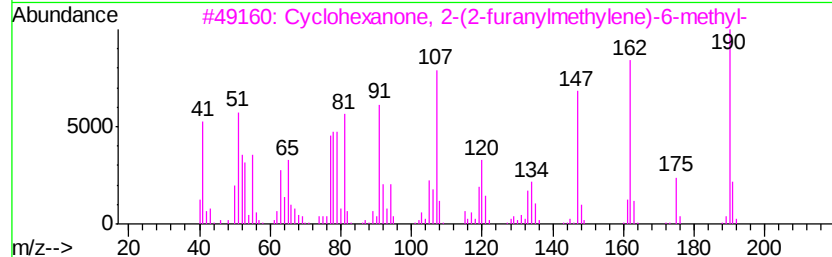
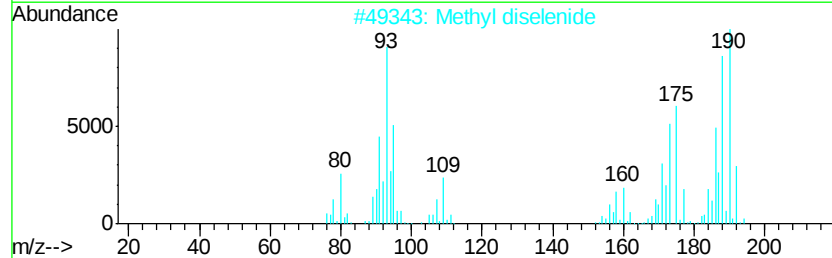
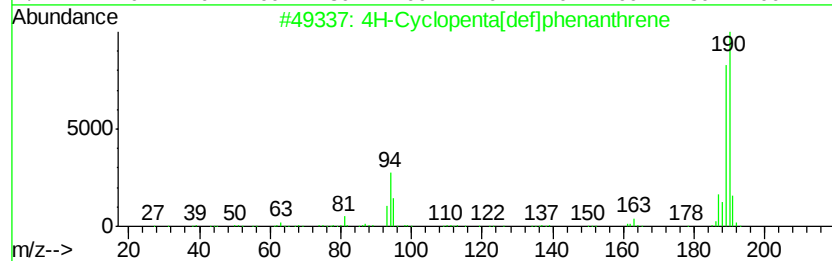
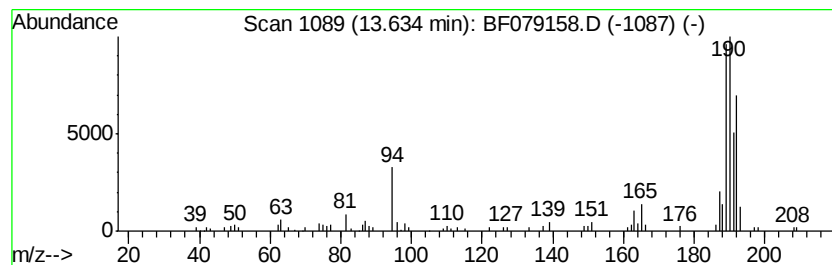
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.63 | 3.67 ng | 126766 | Phenanthrene-d10 | 12.88 |

| Hit# | of | 5 | Tentative ID                                 | MW  | MolForm  | CAS#        | Qual |
|------|----|---|----------------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 4H-Cyclopenta[def]phenanthrene               | 190 | C15H10   | 000203-64-5 | 62   |
| 2    |    |   | Methyl diselenide                            | 190 | C2H6Se2  | 007101-31-7 | 41   |
| 3    |    |   | Cyclohexanone, 2-(2-furanylmethyl)-6-methyl- | 190 | C12H14O2 | 056053-07-7 | 27   |
| 4    |    |   | 3-Bromo-2-furoic acid                        | 190 | C5H3BrO3 | 014903-90-3 | 27   |
| 5    |    |   | Phenanthrene, 4-methyl-                      | 192 | C15H12   | 000832-64-4 | 25   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051215\  
Data File : BF079158.D  
Acq On : 12 May 2015 15:27  
Operator : TP/IZ  
Sample : G2155-07  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-44AS

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

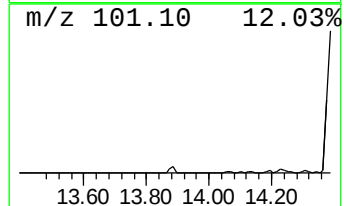
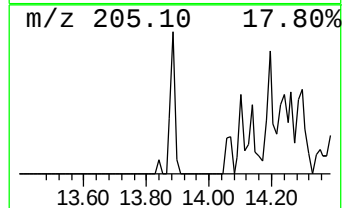
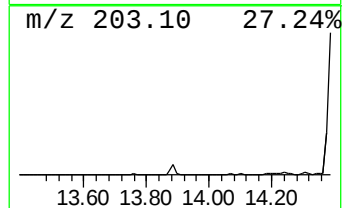
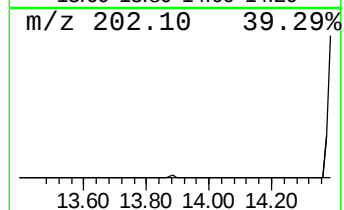
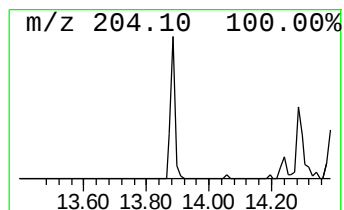
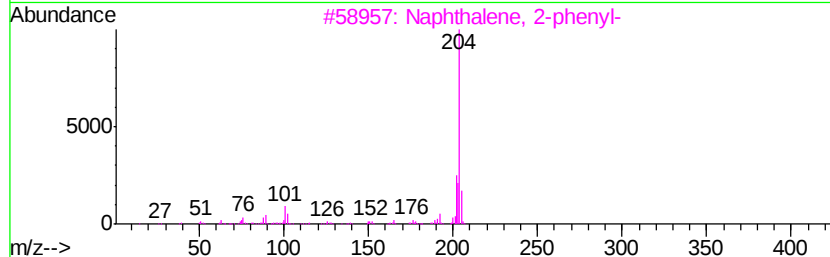
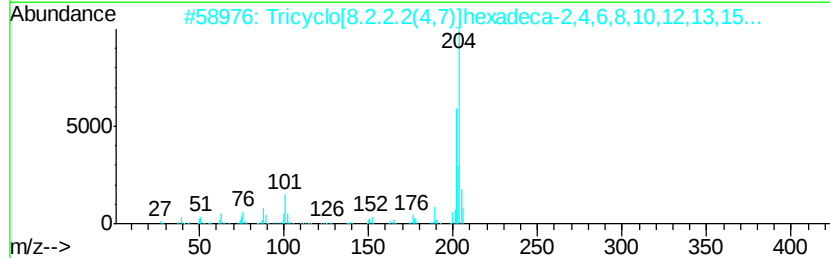
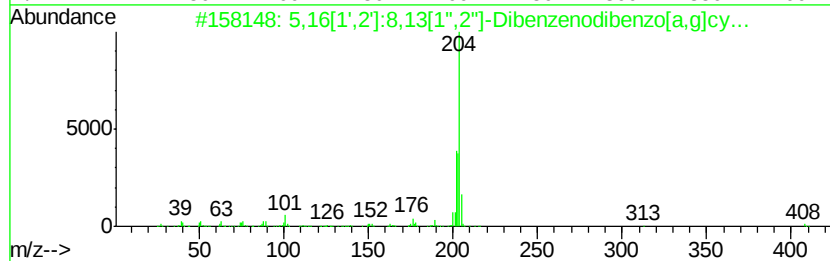
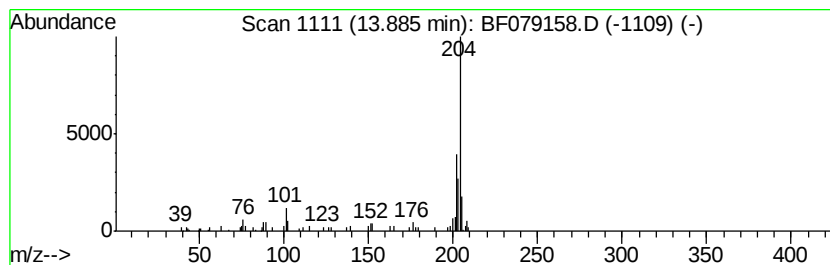
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.89 | 3.46 ng | 119470 | Phenanthrene-d10 | 12.88 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24  | 005672-97-9 | 78   |
| 2    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12  | 006572-60-7 | 70   |
| 3    |    | Naphthalene, 2-phenyl-              | 204 | C16H12  | 000612-94-2 | 70   |
| 4    |    | 2-Phenyl-naphthalene                | 204 | C16H12  | 035465-71-5 | 70   |
| 5    |    | Naphthalene, 1-phenyl-              | 204 | C16H12  | 000605-02-7 | 49   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051215\  
Data File : BF079158.D  
Acq On : 12 May 2015 15:27  
Operator : TP/IZ  
Sample : G2155-07  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-44AS

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

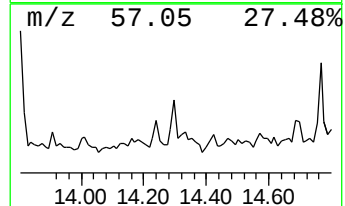
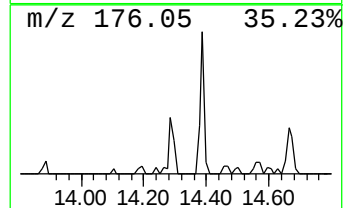
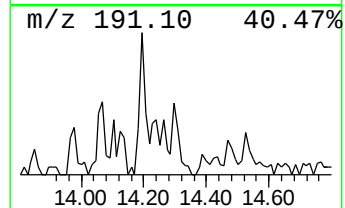
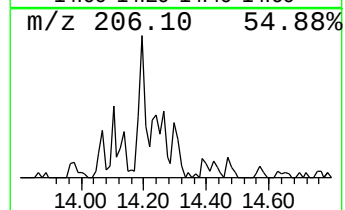
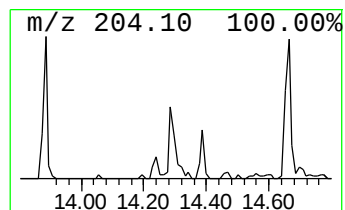
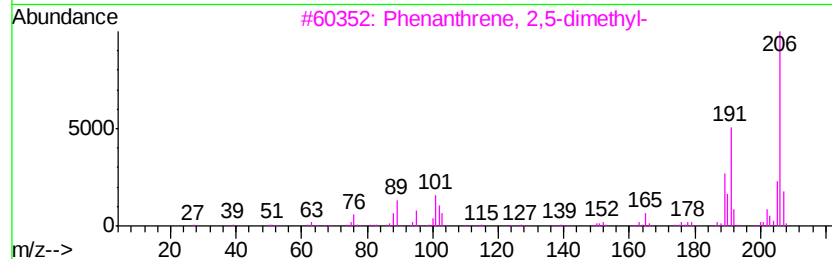
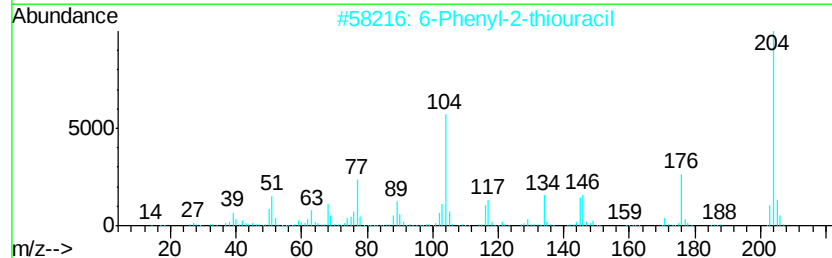
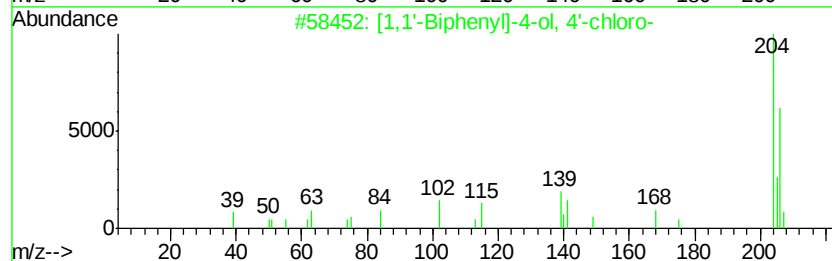
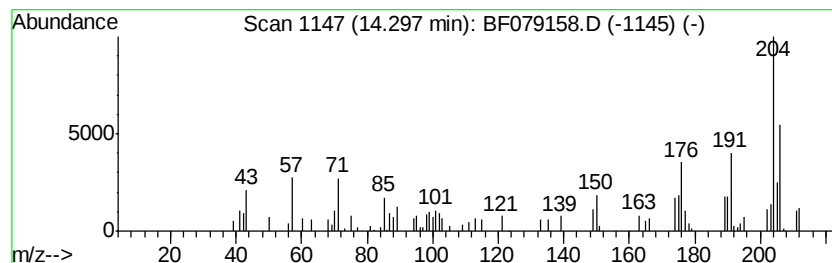
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 unknown14.30 Concentration Rank 20

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.30 | 2.28 ng | 78603 | Phenanthrene-d10 | 12.88 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | [1,1'-Biphenyl]-4-ol, 4'-chloro-    | 204 | C12H9ClO  | 028034-99-3 | 43   |
| 2    |    | 6-Phenyl-2-thiouracil               | 204 | C10H8N2OS | 005590-94-3 | 38   |
| 3    |    | Phenanthrene, 2,5-dimethyl-         | 206 | C16H14    | 003674-66-6 | 38   |
| 4    |    | 9-Acridinecarbonitrile              | 204 | C14H8N2   | 005326-19-2 | 38   |
| 5    |    | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2   | 001591-30-6 | 38   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051215\  
Data File : BF079158.D  
Acq On : 12 May 2015 15:27  
Operator : TP/IZ  
Sample : G2155-07  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-44AS

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

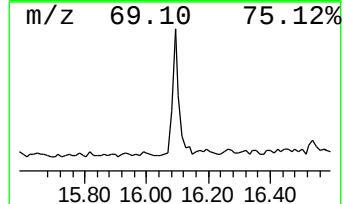
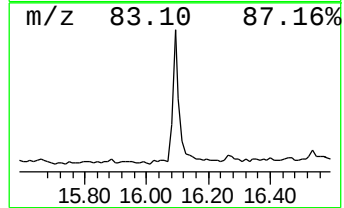
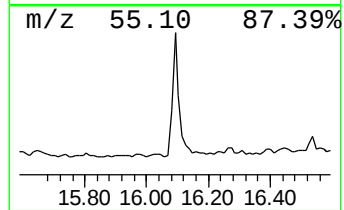
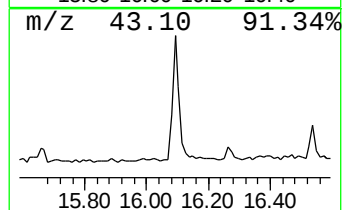
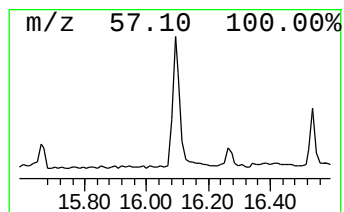
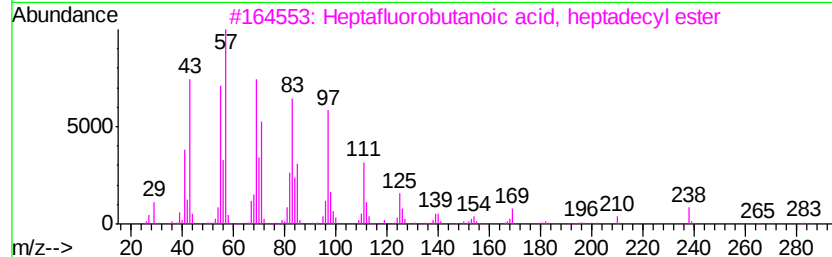
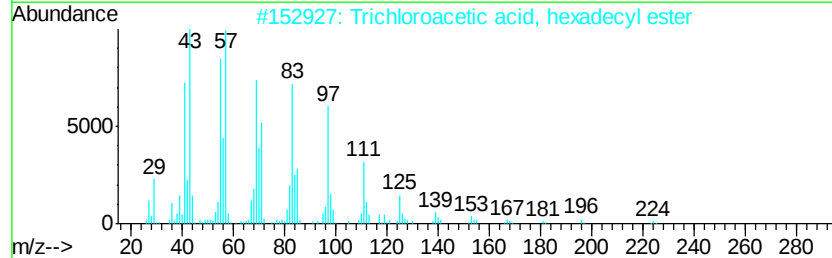
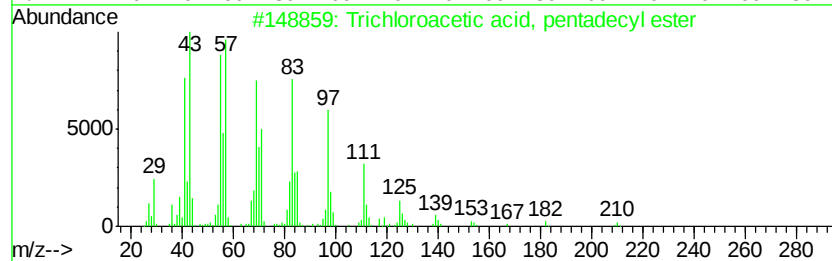
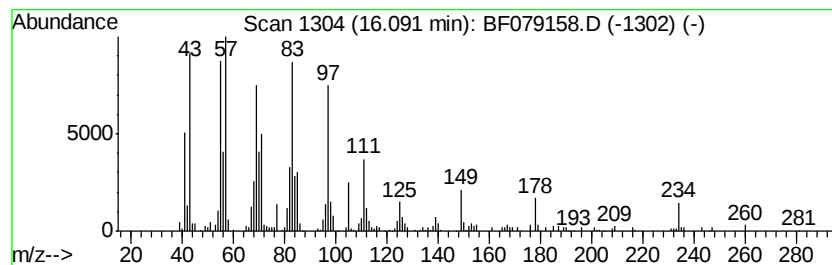
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Trichloroacetic acid, penta... Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.09 | 4.72 ng | 340197 | Chrysene-d12     | 16.22 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0  | 93   |
| 2    |    |   | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1  | 93   |
| 3    |    |   | Heptafluorobutanoic acid, heptad... | 452 | C21H35F7O2  | 1000282-97-3 | 93   |
| 4    |    |   | Heptafluorobutyric acid, n-octad... | 466 | C22H37F7O2  | 000400-57-7  | 90   |
| 5    |    |   | 1-Nonadecene                        | 266 | C19H38      | 018435-45-5  | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051215\  
Data File : BF079158.D  
Acq On : 12 May 2015 15:27  
Operator : TP/IZ  
Sample : G2155-07  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

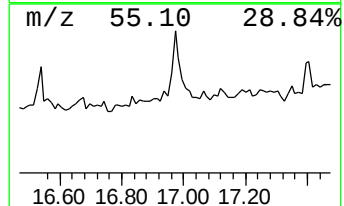
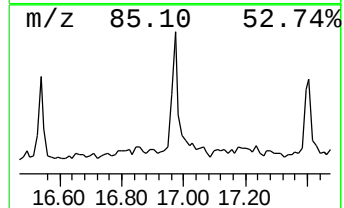
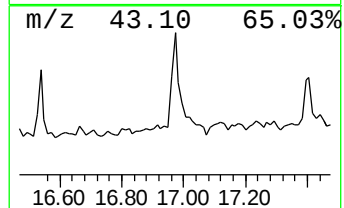
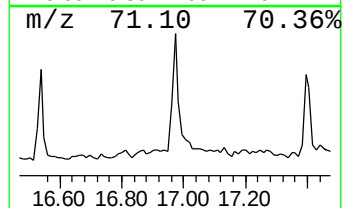
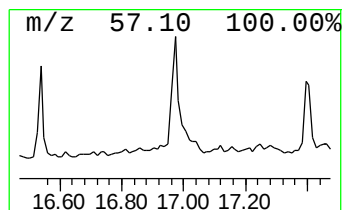
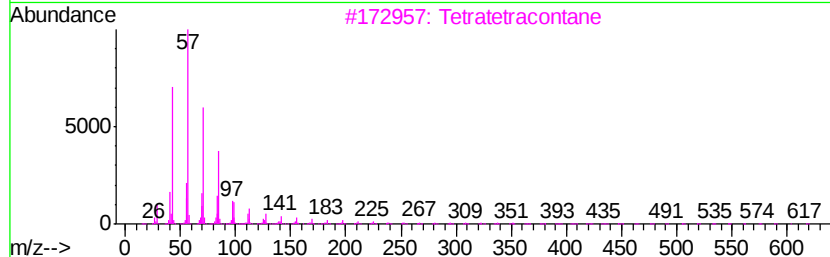
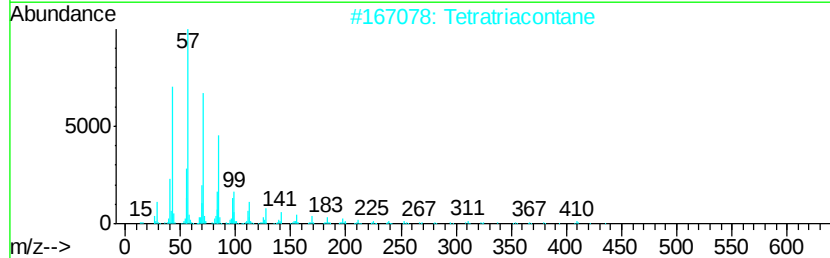
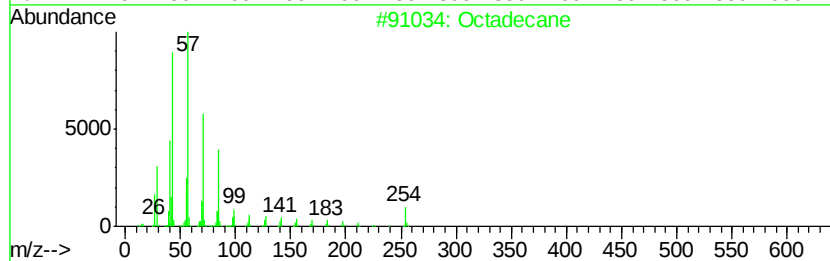
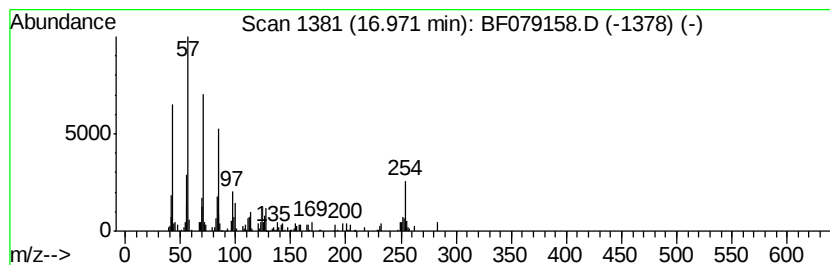
Instrument :  
BNA\_F  
ClientSampleId :  
SB-44AS

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 16 Octadecane Concentration Rank 19

| R.T.    | EstConc           | Area         | Relative to ISTD | R.T.      |
|---------|-------------------|--------------|------------------|-----------|
| 16.97   | 2.28 ng           | 164343       | Chrysene-d12     | 16.22     |
| Hit# of | 5                 | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Octadecane        | 254 C18H38   | 000593-45-3      | 76        |
| 2       | Tetratriacontane  | 479 C34H70   | 014167-59-0      | 58        |
| 3       | Tetratetracontane | 619 C44H90   | 007098-22-8      | 58        |
| 4       | Hexadecane        | 226 C16H34   | 000544-76-3      | 53        |
| 5       | Hexatriacontane   | 507 C36H74   | 000630-06-8      | 52        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051215\  
Data File : BF079158.D  
Acq On : 12 May 2015 15:27  
Operator : TP/IZ  
Sample : G2155-07  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-44AS

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

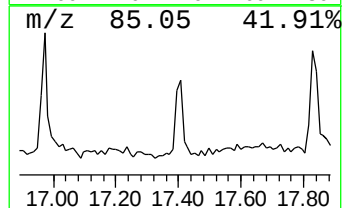
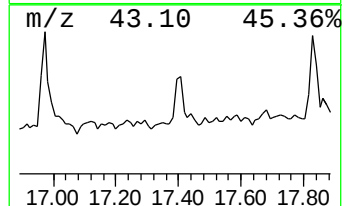
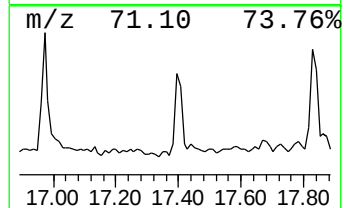
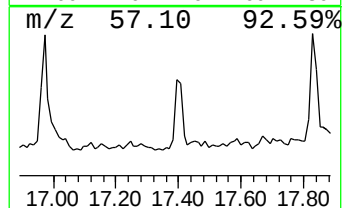
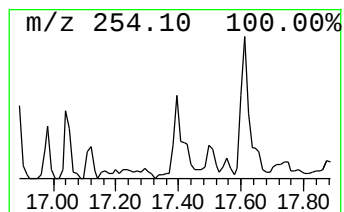
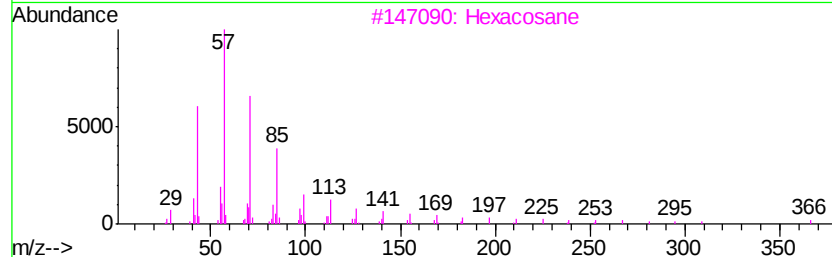
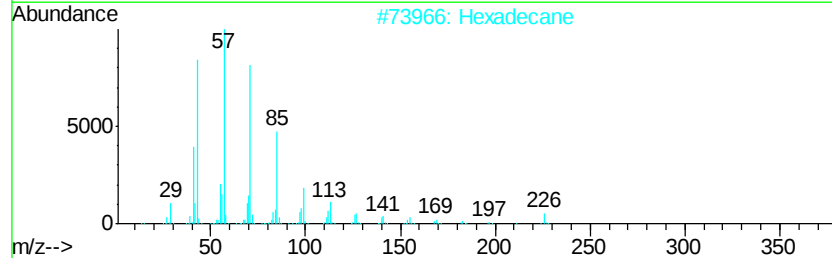
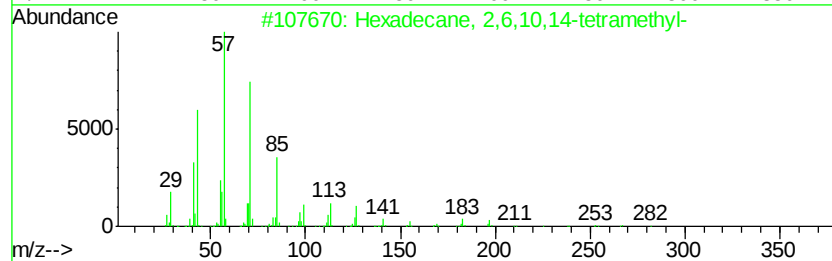
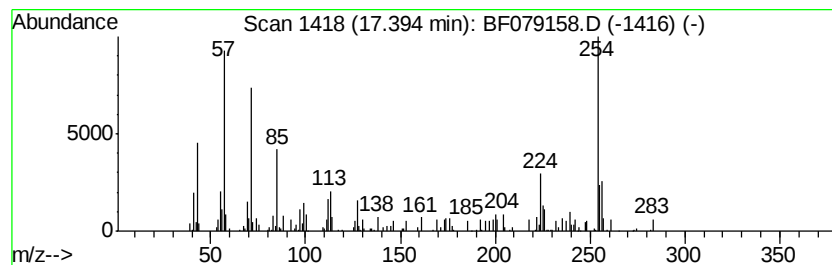
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 unknown17.39 Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.39 | 3.08 ng | 124886 | Perylene-d12     | 18.10 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42  | 000638-36-8 | 46   |
| 2    |    |   | Hexadecane                         | 226 | C16H34  | 000544-76-3 | 41   |
| 3    |    |   | Hexacosane                         | 366 | C26H54  | 000630-01-3 | 38   |
| 4    |    |   | Anthracene, 9-phenyl-              | 254 | C20H14  | 000602-55-1 | 38   |
| 5    |    |   | Pentacosane                        | 352 | C25H52  | 000629-99-2 | 35   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051215\  
Data File : BF079158.D  
Acq On : 12 May 2015 15:27  
Operator : TP/IZ  
Sample : G2155-07  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-44AS

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

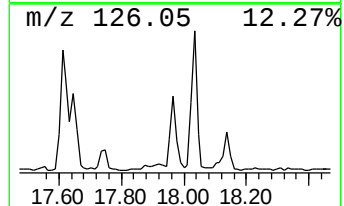
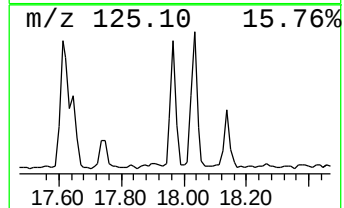
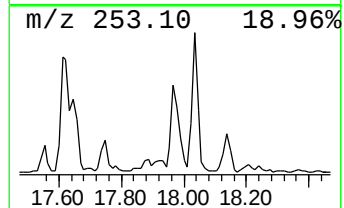
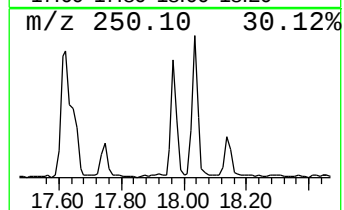
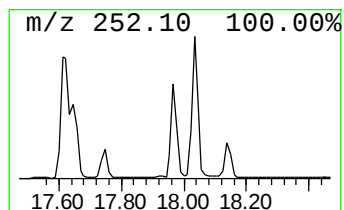
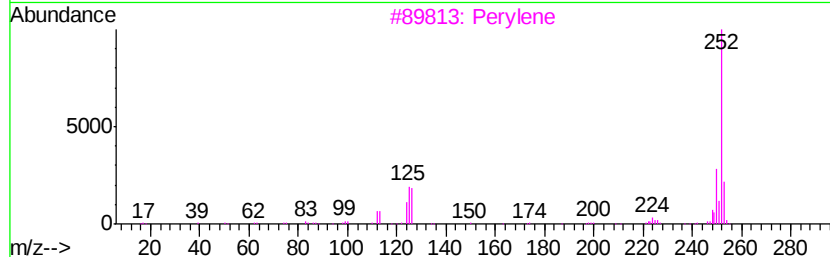
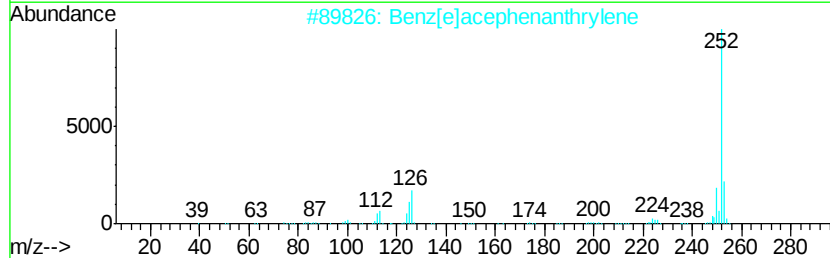
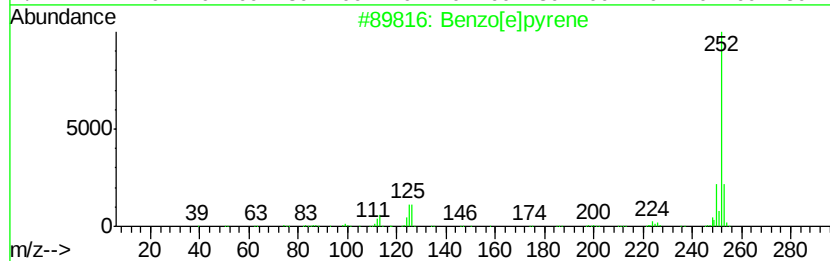
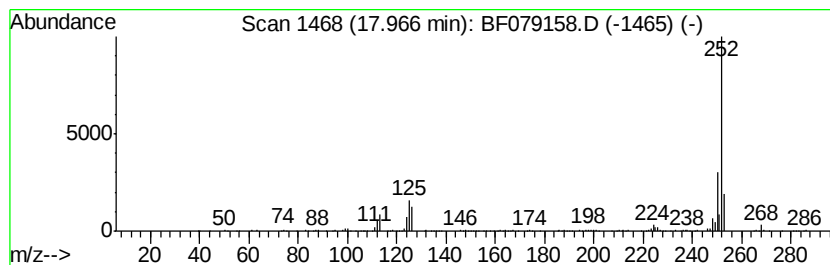
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Benzo[e]pyrene Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.97 | 7.65 ng | 309737 | Perylene-d12     | 18.10 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 97   |
| 2    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 96   |
| 3    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 94   |
| 4    |    | Benzo[i]fluoranthene      | 252 | C20H12  | 000205-82-3 | 93   |
| 5    |    | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 93   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051215\  
Data File : BF079158.D  
Acq On : 12 May 2015 15:27  
Operator : TP/IZ  
Sample : G2155-07  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-44AS

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

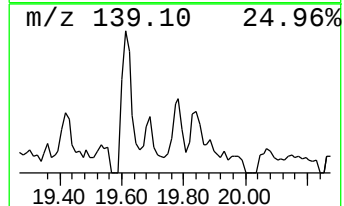
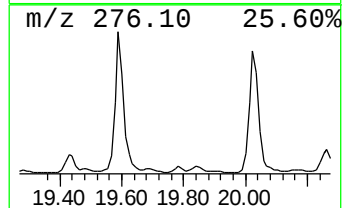
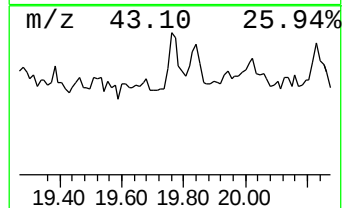
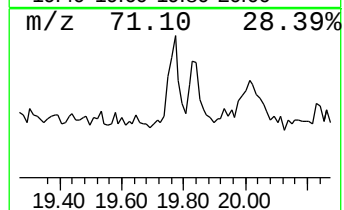
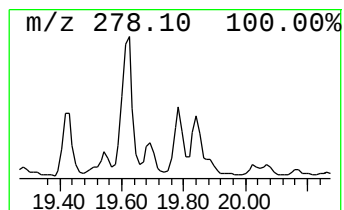
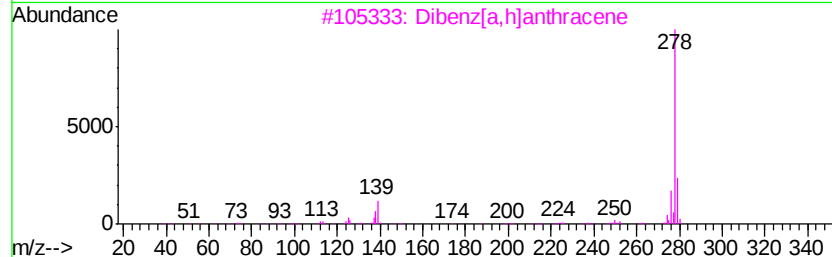
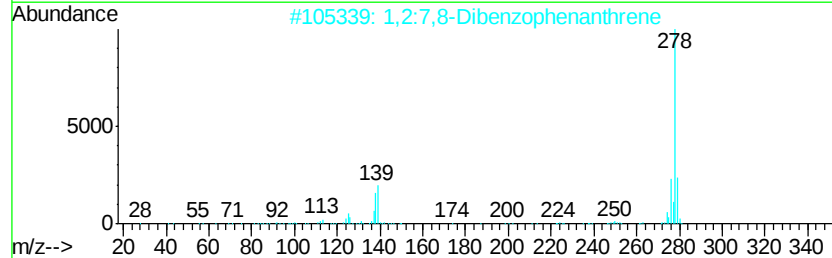
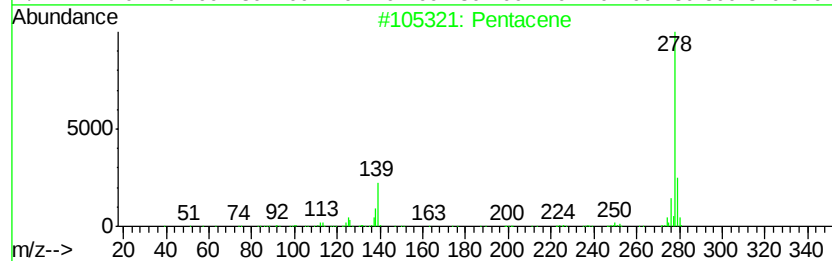
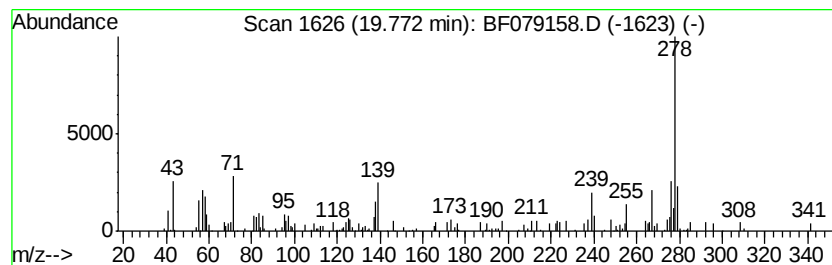
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Pentacene Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.77 | 3.28 ng | 132883 | Perylene-d12     | 18.10 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentacene                   | 278 | C22H14  | 000135-48-8 | 78   |
| 2    |    | 1,2:7,8-Dibenzophenanthrene | 278 | C22H14  | 000213-46-7 | 78   |
| 3    |    | Dibenz[a,h]anthracene       | 278 | C22H14  | 000053-70-3 | 78   |
| 4    |    | Naphtho[1,2-a]anthracene    | 278 | C22H14  | 000195-06-2 | 60   |
| 5    |    | Benzo[b]chrysene            | 278 | C22H14  | 000214-17-5 | 60   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051215\  
 Data File : BF079158.D  
 Acq On : 12 May 2015 15:27  
 Operator : TP/IZ  
 Sample : G2155-07  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-44AS

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.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 |
| unknown1.43          | 1.43  | 236.6   | ng    | 4544300  | 1                     | 7.28  | 384072  | 20.0 |
| unknown1.74          | 1.74  | 28.2    | ng    | 541211   | 1                     | 7.28  | 384072  | 20.0 |
| 2-Pentanone, 4-hy... | 5.07  | 4.3     | ng    | 81695    | 1                     | 7.28  | 384072  | 20.0 |
| 1R-.alpha.-Pinene    | 6.39  | 6.7     | ng    | 127640   | 1                     | 7.28  | 384072  | 20.0 |
| unknown6.99          | 6.99  | 71.7    | ng    | 1376180  | 1                     | 7.28  | 384072  | 20.0 |
| 3-Carene             | 7.22  | 2.7     | ng    | 52420    | 1                     | 7.28  | 384072  | 20.0 |
| 4H-Cyclopenta[def... | 13.63 | 3.7     | ng    | 126766   | 4                     | 12.88 | 690028  | 20.0 |
| 5,16[1',2']:8,13[... | 13.89 | 3.5     | ng    | 119470   | 4                     | 12.88 | 690028  | 20.0 |
| unknown14.30         | 14.30 | 2.3     | ng    | 78603    | 4                     | 12.88 | 690028  | 20.0 |
| Trichloroacetic a... | 16.09 | 4.7     | ng    | 340197   | 5                     | 16.22 | 1441360 | 20.0 |
| Octadecane           | 16.97 | 2.3     | ng    | 164343   | 5                     | 16.22 | 1441360 | 20.0 |
| unknown17.39         | 17.39 | 3.1     | ng    | 124886   | 6                     | 18.10 | 810045  | 20.0 |
| Benzo[e]pyrene       | 17.97 | 7.7     | ng    | 309737   | 6                     | 18.10 | 810045  | 20.0 |
| Pentacene            | 19.77 | 3.3     | ng    | 132883   | 6                     | 18.10 | 810045  | 20.0 |