

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051815\  
 Data File : BF079330.D  
 Acq On : 19 May 2015 3:57  
 Operator : TP/IZ  
 Sample : G2282-07  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-01-D1

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         | 1.312       | 8             | 11          | 13           | rVB      | 2953242        | 3711932       | 59.49%          | 9.555%        |
| 2         | 1.438       | 20            | 22          | 34           | rVB2     | 90226          | 274659        | 4.40%           | 0.707%        |
| 3         | 1.598       | 34            | 36          | 41           | rVV      | 132216         | 204671        | 3.28%           | 0.527%        |
| 4         | 1.667       | 41            | 42          | 50           | rVV      | 268477         | 466686        | 7.48%           | 1.201%        |
| 5         | 1.781       | 50            | 52          | 90           | rVB      | 3066045        | 6239799       | 100.00%         | 16.062%       |
| 6         | 4.936       | 326           | 328         | 335          | rBV      | 147372         | 234511        | 3.76%           | 0.604%        |
| 7         | 5.461       | 372           | 374         | 377          | rBV      | 1051078        | 1120201       | 17.95%          | 2.884%        |
| 8         | 6.742       | 484           | 486         | 489          | rBV      | 1234934        | 1169840       | 18.75%          | 3.011%        |
| 9         | 6.879       | 496           | 498         | 501          | rBV      | 1189720        | 1227435       | 19.67%          | 3.160%        |
| 10        | 7.164       | 521           | 523         | 526          | rBV      | 319017         | 310024        | 4.97%           | 0.798%        |
| 11        | 7.359       | 537           | 540         | 542          | rBV      | 672238         | 939403        | 15.06%          | 2.418%        |
| 12        | 7.862       | 581           | 584         | 586          | rBV      | 836554         | 740894        | 11.87%          | 1.907%        |
| 13        | 8.742       | 659           | 661         | 663          | rBV      | 466231         | 498213        | 7.98%           | 1.282%        |
| 14        | 10.090      | 777           | 779         | 782          | rBV      | 1703037        | 1482943       | 23.77%          | 3.817%        |
| 15        | 10.593      | 820           | 823         | 826          | rBV2     | 92109          | 123123        | 1.97%           | 0.317%        |
| 16        | 10.742      | 833           | 836         | 839          | rBV      | 211199         | 201435        | 3.23%           | 0.519%        |
| 17        | 10.913      | 849           | 851         | 853          | rBV      | 463952         | 472996        | 7.58%           | 1.218%        |
| 18        | 10.959      | 853           | 855         | 857          | rVB      | 76534          | 73002         | 1.17%           | 0.188%        |
| 19        | 11.599      | 909           | 911         | 913          | rBV      | 56943          | 66783         | 1.07%           | 0.172%        |
| 20        | 11.896      | 934           | 937         | 940          | rBV      | 966321         | 992732        | 15.91%          | 2.555%        |
| 21        | 12.754      | 1010          | 1012        | 1014         | rBV      | 380373         | 579995        | 9.30%           | 1.493%        |
| 22        | 12.788      | 1014          | 1015        | 1018         | rVV      | 695671         | 563317        | 9.03%           | 1.450%        |
| 23        | 12.856      | 1018          | 1021        | 1022         | rVV      | 205032         | 272645        | 4.37%           | 0.702%        |
| 24        | 13.382      | 1065          | 1067        | 1069         | rBV      | 85525          | 128174        | 2.05%           | 0.330%        |
| 25        | 13.416      | 1069          | 1070        | 1074         | rVB      | 112437         | 160472        | 2.57%           | 0.413%        |
| 26        | 13.485      | 1074          | 1076        | 1077         | rBV      | 110001         | 133851        | 2.15%           | 0.345%        |
| 27        | 13.519      | 1077          | 1079        | 1081         | rVV      | 212157         | 272931        | 4.37%           | 0.703%        |
| 28        | 13.554      | 1081          | 1082        | 1086         | rVB      | 97375          | 79317         | 1.27%           | 0.204%        |
| 29        | 13.759      | 1099          | 1100        | 1101         | rBV      | 70134          | 74810         | 1.20%           | 0.193%        |
| 30        | 13.794      | 1101          | 1103        | 1105         | rVB2     | 51758          | 71535         | 1.15%           | 0.184%        |
| 31        | 14.068      | 1125          | 1127        | 1129         | rBV2     | 80770          | 123407        | 1.98%           | 0.318%        |
| 32        | 14.114      | 1129          | 1131        | 1133         | rVV      | 52489          | 81901         | 1.31%           | 0.211%        |
| 33        | 14.171      | 1135          | 1136        | 1139         | rVB3     | 65938          | 100362        | 1.61%           | 0.258%        |
| 34        | 14.262      | 1142          | 1144        | 1146         | rBV      | 1051241        | 1214884       | 19.47%          | 3.127%        |

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 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-01-D1

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 | 14.342 | 1149 | 1151 | 1153 | rBV2 | 82048   | 109439  | 1.75%  | 0.282% |
| 36 | 14.377 | 1153 | 1154 | 1157 | rVB  | 121951  | 171516  | 2.75%  | 0.442% |
| 37 | 14.445 | 1157 | 1160 | 1161 | rBV  | 65375   | 78452   | 1.26%  | 0.202% |
| 38 | 14.548 | 1166 | 1169 | 1171 | rBV  | 1171151 | 1352085 | 21.67% | 3.480% |
| 39 | 14.708 | 1181 | 1183 | 1184 | rBV  | 66440   | 82969   | 1.33%  | 0.214% |
| 40 | 14.754 | 1184 | 1187 | 1190 | rVV  | 1620590 | 1657147 | 26.56% | 4.266% |
| 41 | 14.834 | 1190 | 1194 | 1196 | rVV2 | 87050   | 150687  | 2.41%  | 0.388% |
| 42 | 14.937 | 1198 | 1203 | 1204 | rBV3 | 86485   | 191772  | 3.07%  | 0.494% |
| 43 | 14.960 | 1204 | 1205 | 1208 | rVB  | 169667  | 180479  | 2.89%  | 0.465% |
| 44 | 15.051 | 1210 | 1213 | 1215 | rVV  | 112204  | 163013  | 2.61%  | 0.420% |
| 45 | 15.085 | 1215 | 1216 | 1218 | rVV  | 149201  | 177669  | 2.85%  | 0.457% |
| 46 | 15.165 | 1221 | 1223 | 1225 | rVV2 | 46124   | 82340   | 1.32%  | 0.212% |
| 47 | 15.200 | 1225 | 1226 | 1228 | rVV  | 92536   | 91559   | 1.47%  | 0.236% |
| 48 | 15.245 | 1228 | 1230 | 1232 | rVV  | 72395   | 120709  | 1.93%  | 0.311% |
| 49 | 15.348 | 1236 | 1239 | 1244 | rVB6 | 25638   | 97292   | 1.56%  | 0.250% |
| 50 | 15.588 | 1258 | 1260 | 1264 | rVB2 | 65032   | 118334  | 1.90%  | 0.305% |
| 51 | 15.725 | 1269 | 1272 | 1274 | rBV  | 109923  | 153025  | 2.45%  | 0.394% |
| 52 | 15.771 | 1274 | 1276 | 1279 | rBV2 | 69942   | 176315  | 2.83%  | 0.454% |
| 53 | 15.851 | 1282 | 1283 | 1286 | rVB  | 70988   | 98769   | 1.58%  | 0.254% |
| 54 | 15.920 | 1287 | 1289 | 1293 | rBV2 | 159592  | 285499  | 4.58%  | 0.735% |
| 55 | 16.034 | 1296 | 1299 | 1301 | rBV2 | 927137  | 1563129 | 25.05% | 4.024% |
| 56 | 16.080 | 1301 | 1303 | 1307 | rVB2 | 639421  | 864835  | 13.86% | 2.226% |
| 57 | 16.171 | 1309 | 1311 | 1312 | rVB2 | 87103   | 75305   | 1.21%  | 0.194% |
| 58 | 16.228 | 1314 | 1316 | 1317 | rVB  | 63375   | 85441   | 1.37%  | 0.220% |
| 59 | 16.331 | 1323 | 1325 | 1327 | rVB3 | 55765   | 79363   | 1.27%  | 0.204% |
| 60 | 16.445 | 1333 | 1335 | 1337 | rBV2 | 34276   | 66250   | 1.06%  | 0.171% |
| 61 | 16.537 | 1340 | 1343 | 1345 | rVV  | 157331  | 219771  | 3.52%  | 0.566% |
| 62 | 16.571 | 1345 | 1346 | 1349 | rVV  | 60691   | 87256   | 1.40%  | 0.225% |
| 63 | 16.651 | 1351 | 1353 | 1354 | rVV  | 86497   | 90718   | 1.45%  | 0.234% |
| 64 | 16.685 | 1354 | 1356 | 1357 | rVV  | 72598   | 103974  | 1.67%  | 0.268% |
| 65 | 16.720 | 1357 | 1359 | 1363 | rVB4 | 77881   | 186235  | 2.98%  | 0.479% |
| 66 | 17.131 | 1391 | 1395 | 1397 | rBV5 | 73594   | 228935  | 3.67%  | 0.589% |
| 67 | 17.257 | 1404 | 1406 | 1408 | rBV2 | 66034   | 81372   | 1.30%  | 0.209% |
| 68 | 17.303 | 1408 | 1410 | 1416 | rBV  | 619859  | 1326343 | 21.26% | 3.414% |
| 69 | 17.417 | 1418 | 1420 | 1422 | rVB  | 215370  | 216432  | 3.47%  | 0.557% |
| 70 | 17.474 | 1422 | 1425 | 1426 | rBV  | 115594  | 168427  | 2.70%  | 0.434% |
| 71 | 17.611 | 1435 | 1437 | 1440 | rBV  | 463043  | 529894  | 8.49%  | 1.364% |

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Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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 | 17.668 | 1440 | 1442 | 1445 | rVB  | 661245 | 758251 | 12.15% | 1.952% |
| 73 | 17.737 | 1445 | 1448 | 1449 | rBV  | 413673 | 534478 | 8.57%  | 1.376% |
| 74 | 18.263 | 1492 | 1494 | 1497 | rVB  | 183998 | 308219 | 4.94%  | 0.793% |
| 75 | 19.131 | 1567 | 1570 | 1575 | rBV2 | 268847 | 569399 | 9.13%  | 1.466% |
| 76 | 19.303 | 1582 | 1585 | 1588 | rBV  | 117340 | 281768 | 4.52%  | 0.725% |
| 77 | 19.543 | 1603 | 1606 | 1612 | rVB  | 247991 | 473805 | 7.59%  | 1.220% |

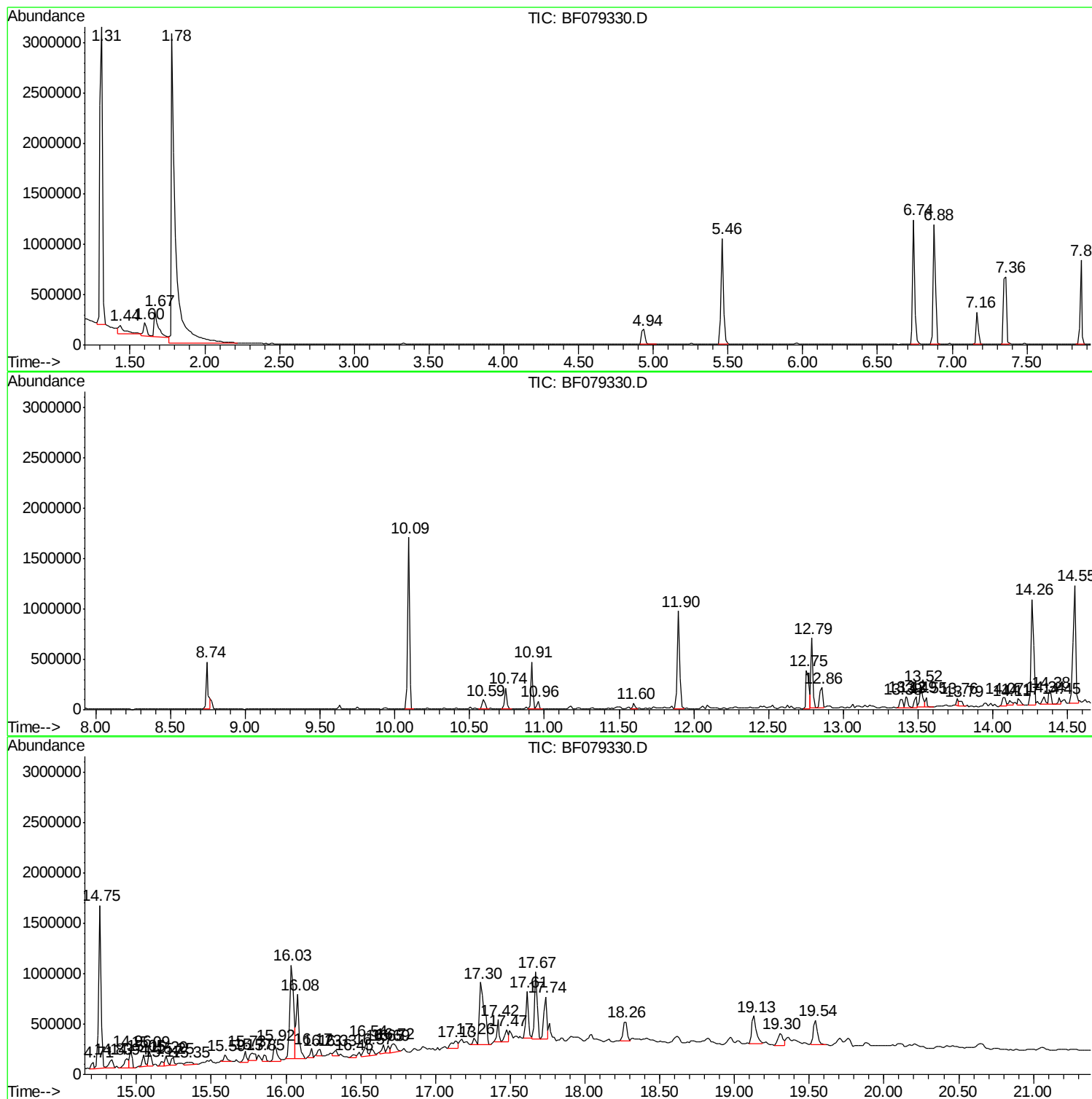
Sum of corrected areas: 38847553

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
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Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
Sample : G2282-07  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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

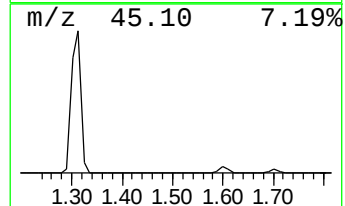
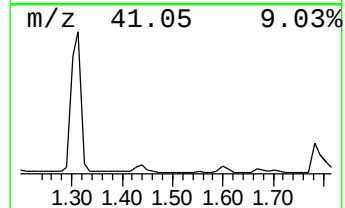
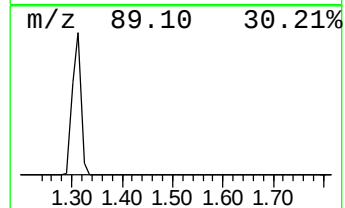
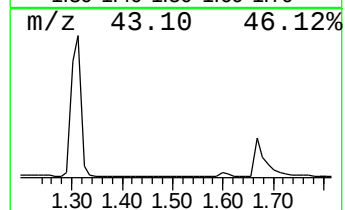
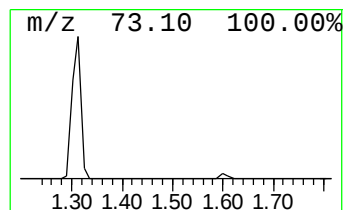
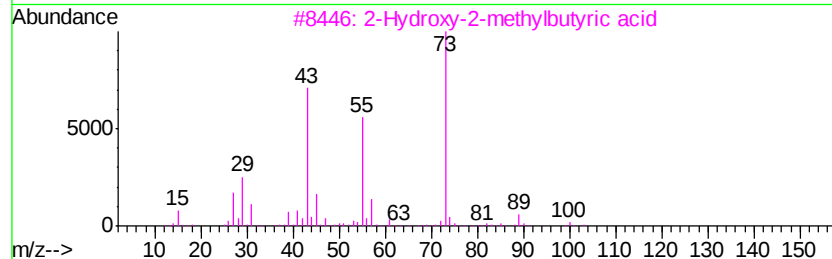
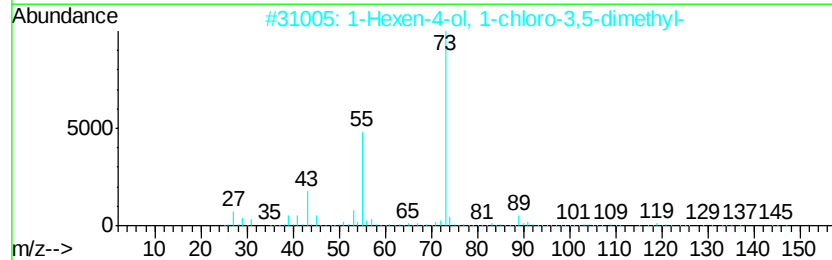
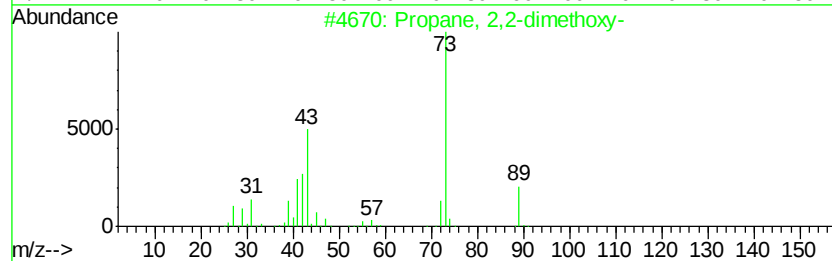
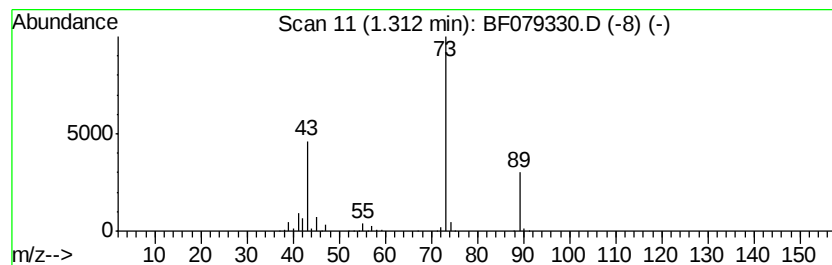
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown1.31 Concentration Rank 2

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 1.31 | 239.46 ng | 3711930 | 1,4-Dichlorobenzene-d4 | 7.16 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Propane, 2,2-dimethoxy-             | 104 | C5H12O2  | 000077-76-9 | 38   |
| 2    |    | 1-Hexen-4-ol, 1-chloro-3,5-dimet... | 162 | C8H15ClO | 100244-09-5 | 9    |
| 3    |    | 2-Hydroxy-2-methylbutyric acid      | 118 | C5H10O3  | 003739-30-8 | 9    |
| 4    |    | Propane, 2-methoxy-2-methyl-        | 88  | C5H12O   | 001634-04-4 | 9    |
| 5    |    | Methane, isothiocyanato-            | 73  | C2H3NS   | 000556-61-6 | 7    |



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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

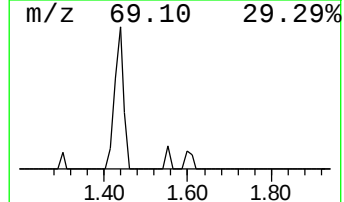
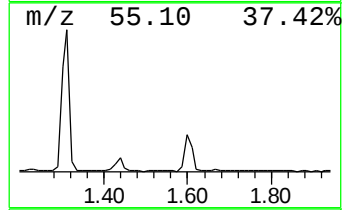
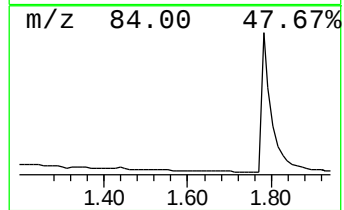
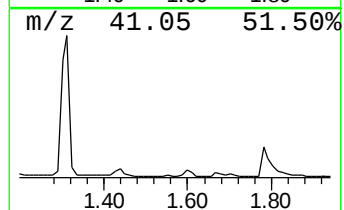
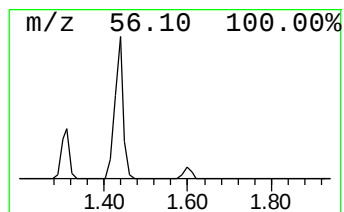
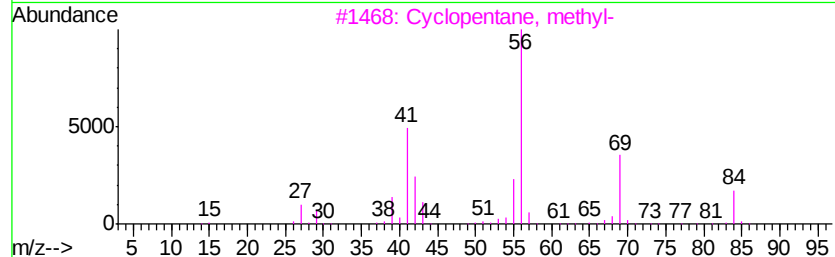
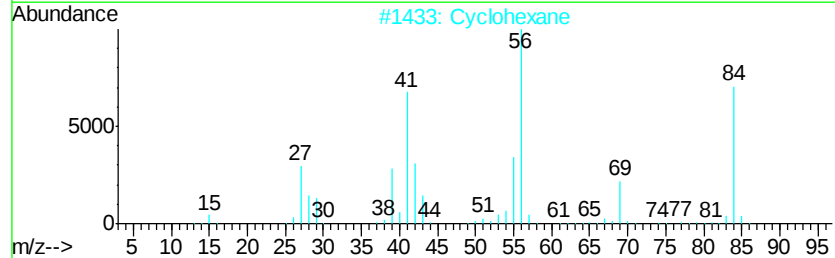
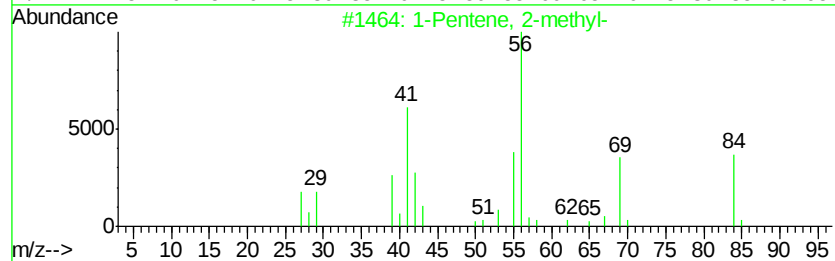
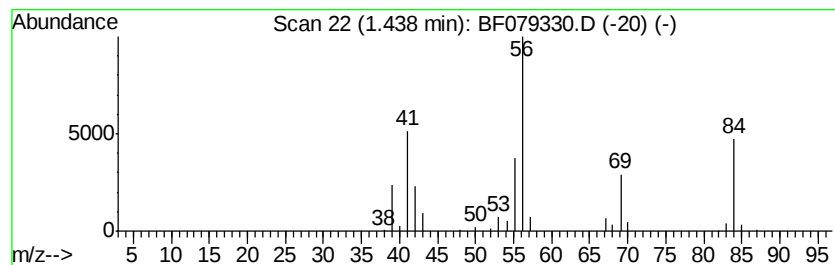
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 1-Pentene, 2-methyl- Concentration Rank 7

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 1.44 | 17.72 ng | 274659 | 1,4-Dichlorobenzene-d4 | 7.16 |

| Hit# | of | Tentative ID                       | MW | MolForm | CAS#        | Qual |
|------|----|------------------------------------|----|---------|-------------|------|
| 1    | 5  | 1-Pentene, 2-methyl-               | 84 | C6H12   | 000763-29-1 | 91   |
| 2    |    | Cyclohexane                        | 84 | C6H12   | 000110-82-7 | 91   |
| 3    |    | Cyclopentane, methyl-              | 84 | C6H12   | 000096-37-7 | 86   |
| 4    |    | Cyanoic acid, 2-methylpropyl ester | 99 | C5H9NO  | 001768-25-8 | 59   |
| 5    |    | 1-Hexene                           | 84 | C6H12   | 000592-41-6 | 53   |



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

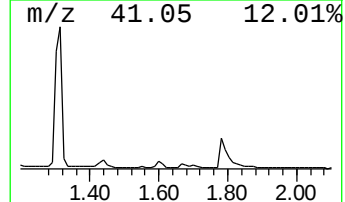
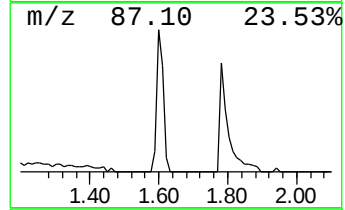
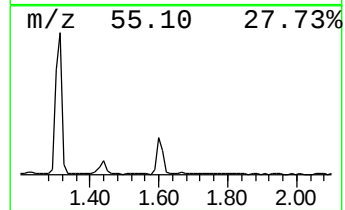
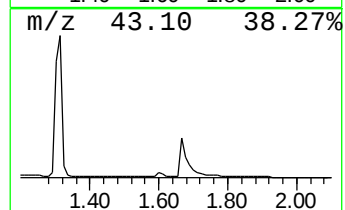
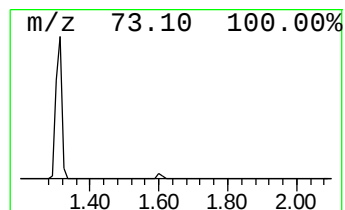
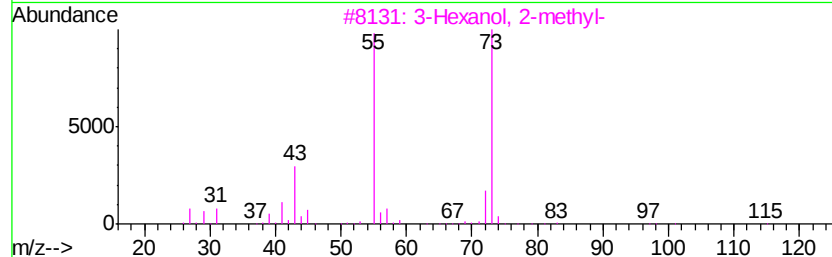
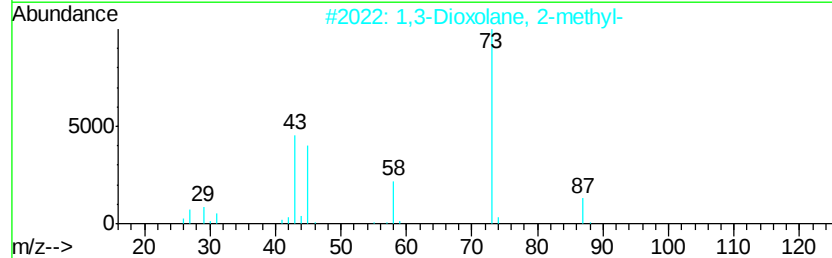
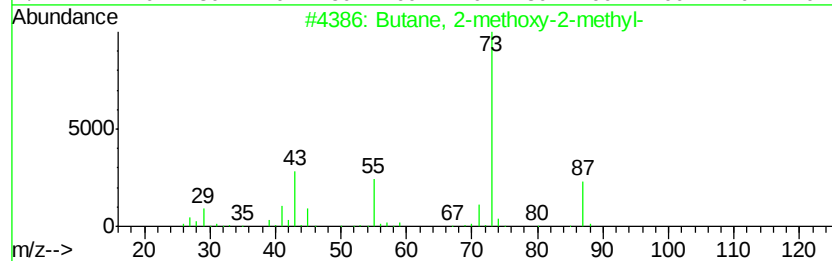
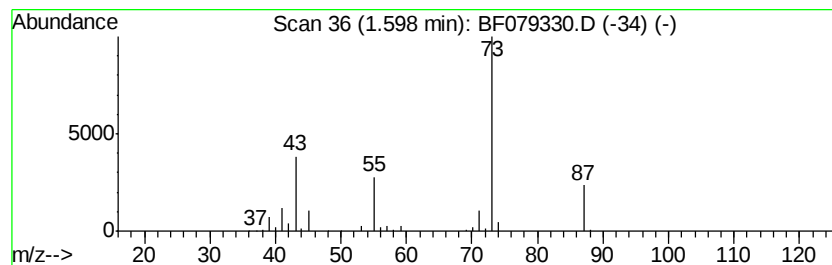
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Butane, 2-methoxy-2-methyl- Concentration Rank 9

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 1.60 | 13.20 ng | 204671 | 1,4-Dichlorobenzene-d4 | 7.16 |

| Hit# of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|---------|---|-----------------------------|-----|---------|-------------|------|
| 1       |   | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 59   |
| 2       |   | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 25   |
| 3       |   | 3-Hexanol, 2-methyl-        | 116 | C7H16O  | 000617-29-8 | 16   |
| 4       |   | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 12   |
| 5       |   | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
Sample : G2282-07  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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

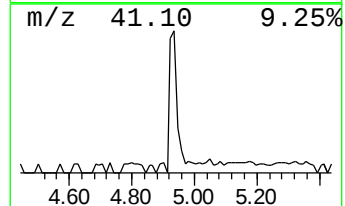
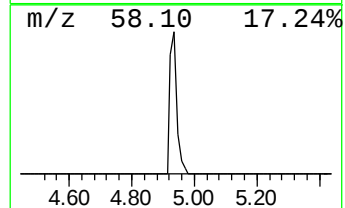
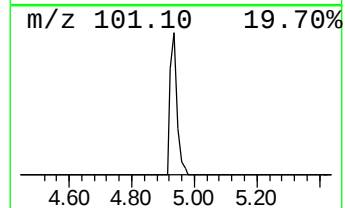
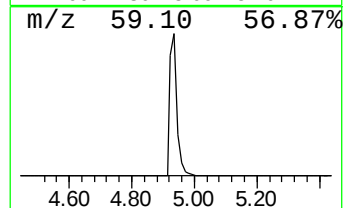
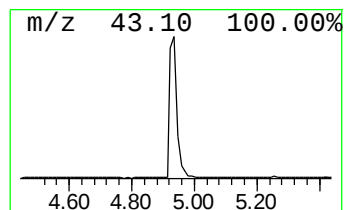
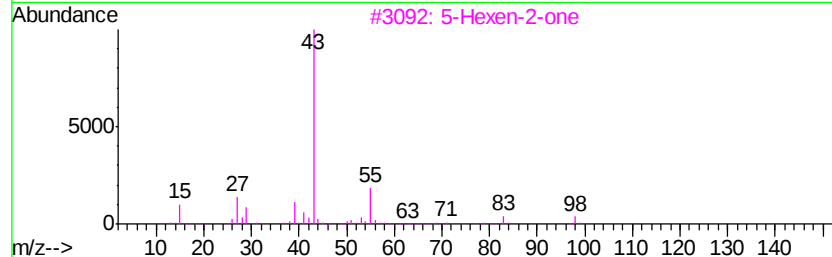
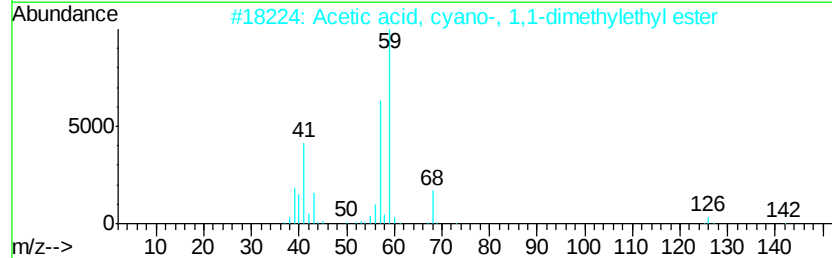
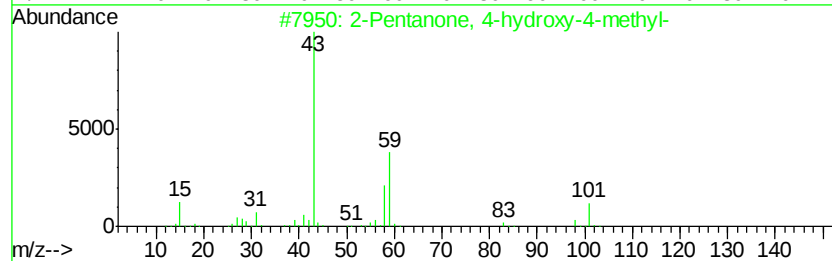
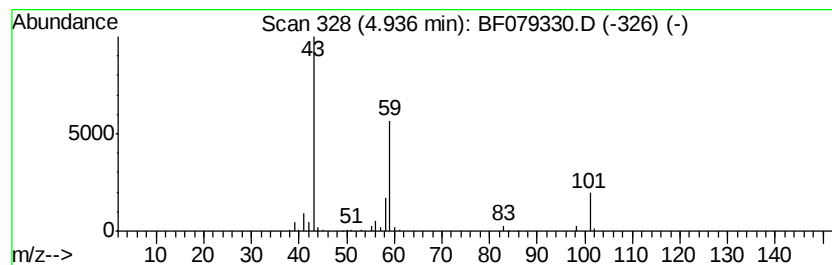
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.94 | 15.13 ng | 234511 | 1,4-Dichlorobenzene-d4 | 7.16 |

| Hit# of | 5                                    | Tentative ID | MW       | MolForm     | CAS# | Qual |
|---------|--------------------------------------|--------------|----------|-------------|------|------|
| 1       | 2-Pentanone, 4-hydroxy-4-methyl-     | 116          | C6H12O2  | 000123-42-2 | 53   |      |
| 2       | Acetic acid, cyano-, 1,1-dimethyl... | 141          | C7H11NO2 | 001116-98-9 | 17   |      |
| 3       | 5-Hexen-2-one                        | 98           | C6H10O   | 000109-49-9 | 9    |      |
| 4       | Acetone                              | 58           | C3H6O    | 000067-64-1 | 9    |      |
| 5       | Morpholine, 4-methyl-                | 101          | C5H11NO  | 000109-02-4 | 9    |      |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
Sample : G2282-07  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

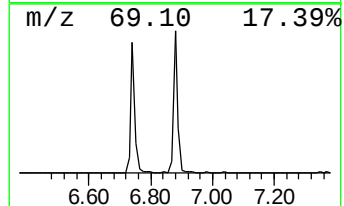
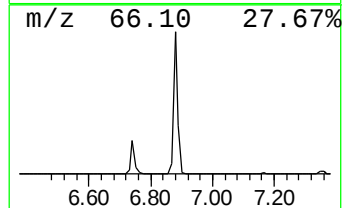
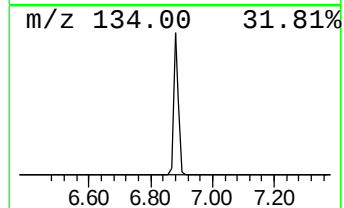
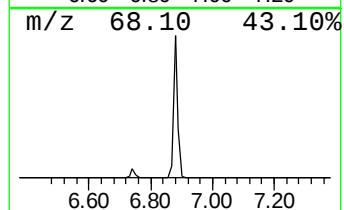
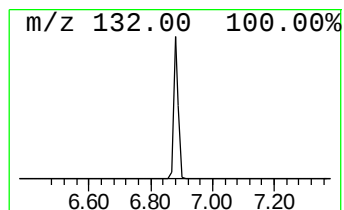
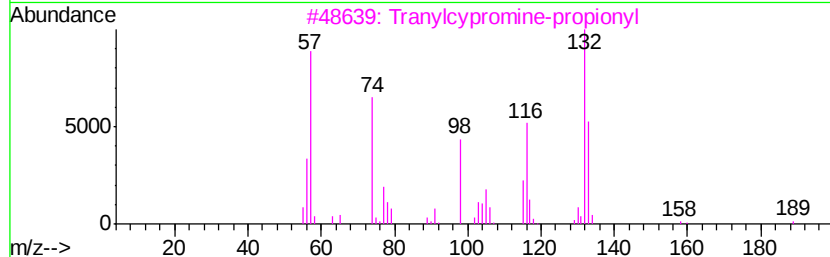
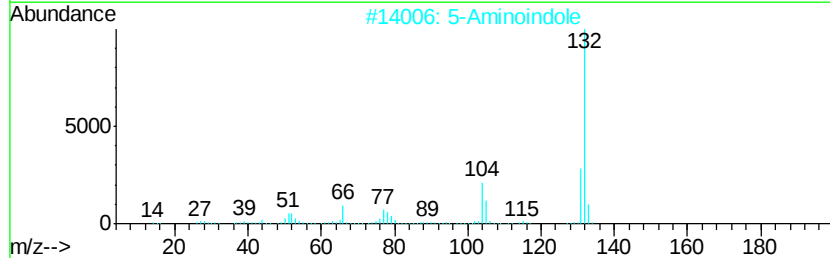
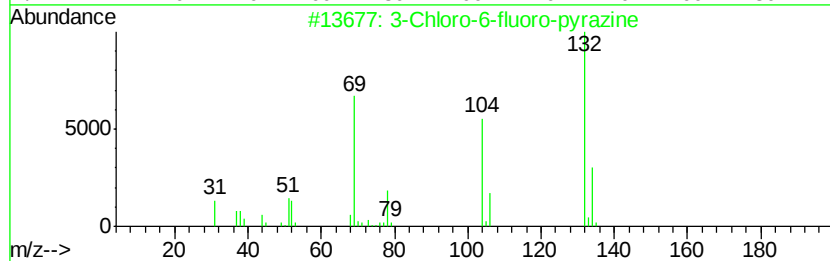
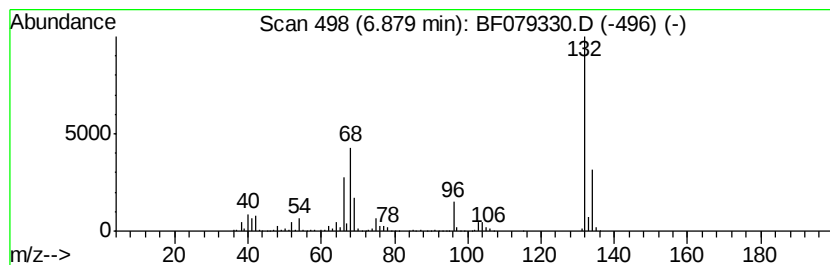
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 unknown6.88 Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.88 | 79.18 ng | 1227440 | 1,4-Dichlorobenzene-d4 | 7.16 |

| 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    |    |   | Tranvlcypropine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    |   | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    |   | 4-Chloro-2-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-00-5  | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
Sample : G2282-07  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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

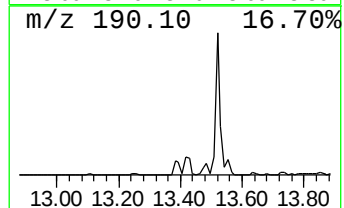
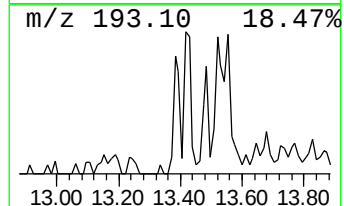
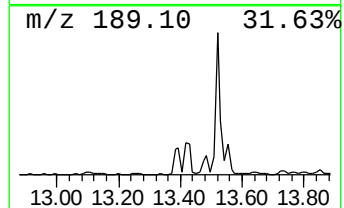
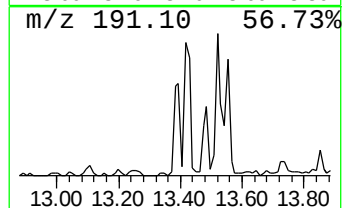
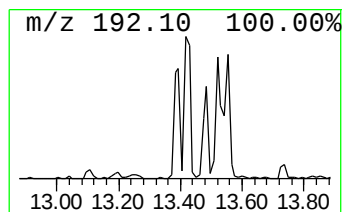
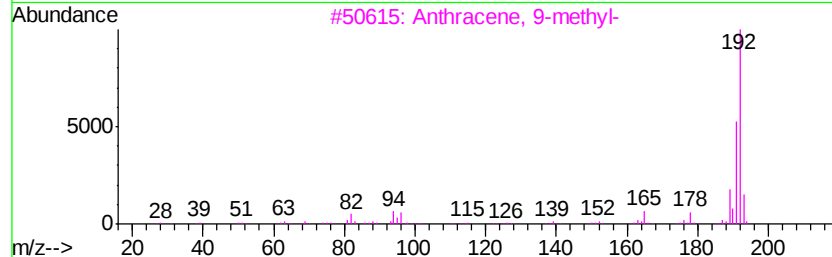
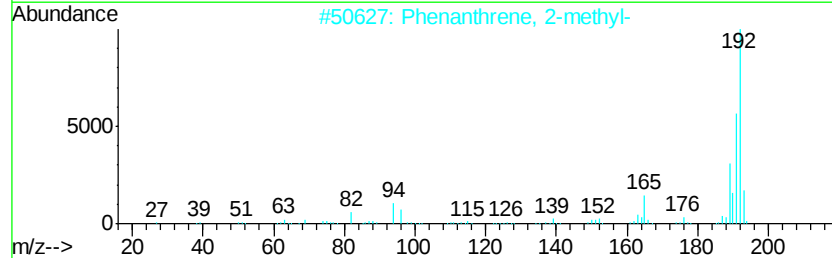
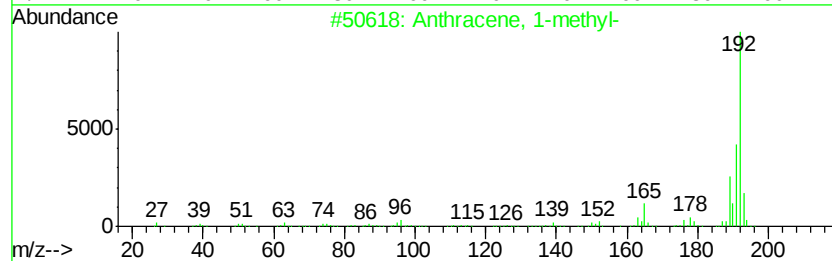
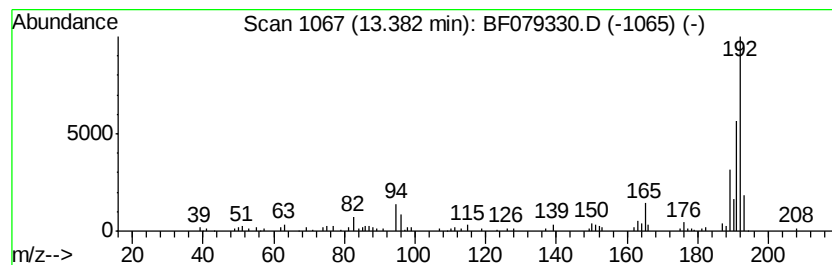
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Anthracene, 1-methyl- Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.38 | 4.42 ng | 128174 | Phenanthrene-d10 | 12.75 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------|-----|---------|-------------|------|
| 1       |   | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 94   |
| 2       |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 93   |
| 3       |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 91   |
| 4       |   | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 91   |
| 5       |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
Sample : G2282-07  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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

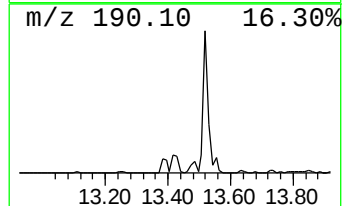
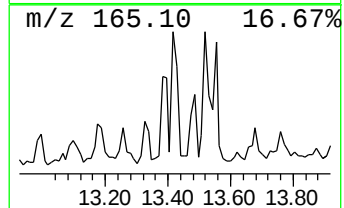
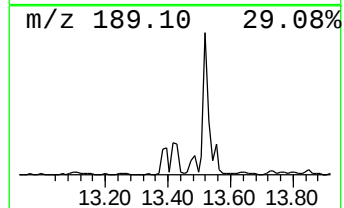
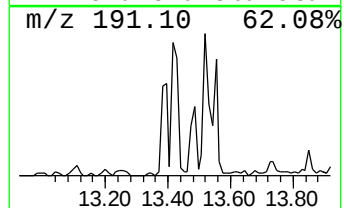
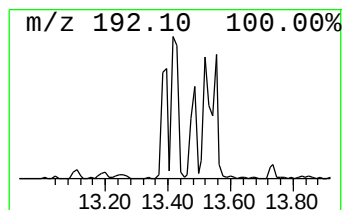
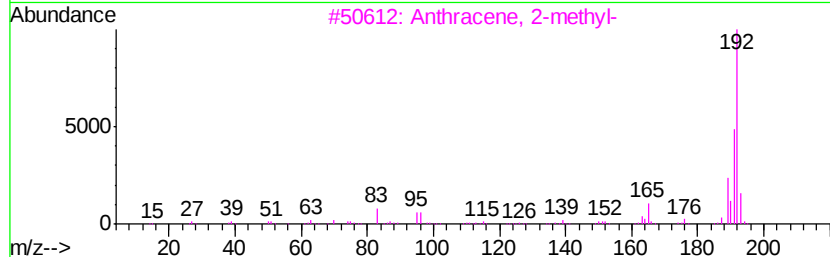
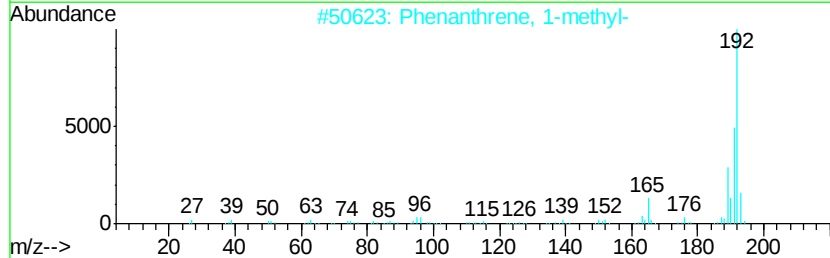
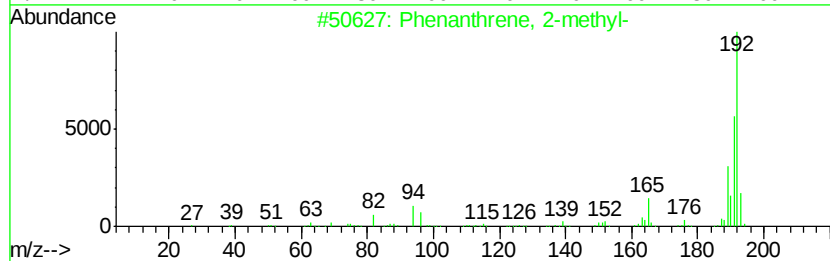
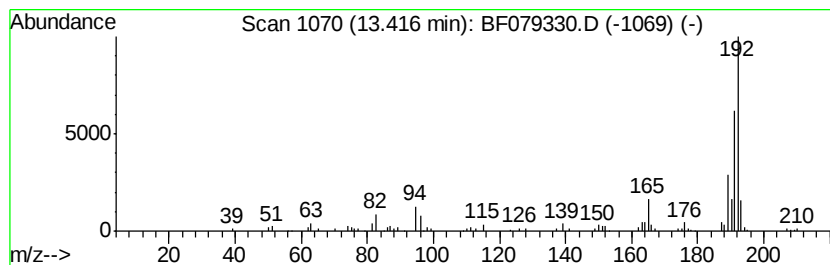
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.42 | 5.53 ng | 160472 | Phenanthrene-d10 | 12.75 |

| Hit# | of | 5 | Tentative ID                           | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl-                | 192 | C15H12  | 002531-84-2 | 98   |
| 2    |    |   | Phenanthrene, 1-methyl-                | 192 | C15H12  | 000832-69-9 | 97   |
| 3    |    |   | Anthracene, 2-methyl-                  | 192 | C15H12  | 000613-12-7 | 95   |
| 4    |    |   | 1H-Cyclopropa[1,1]phenanthrene, 1a,... | 192 | C15H12  | 000949-41-7 | 95   |
| 5    |    |   | Anthracene, 1-methyl-                  | 192 | C15H12  | 000610-48-0 | 93   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
Sample : G2282-07  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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

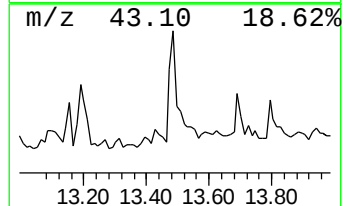
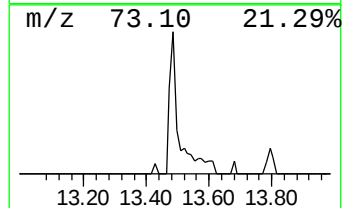
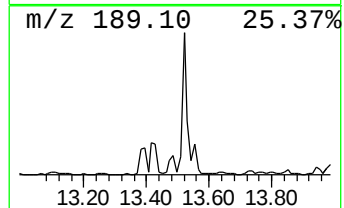
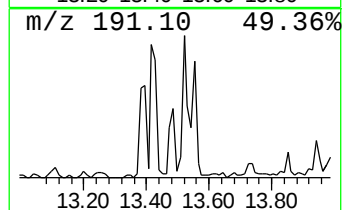
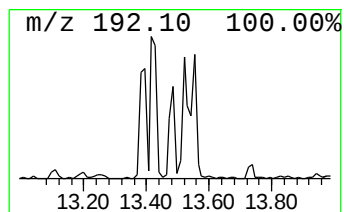
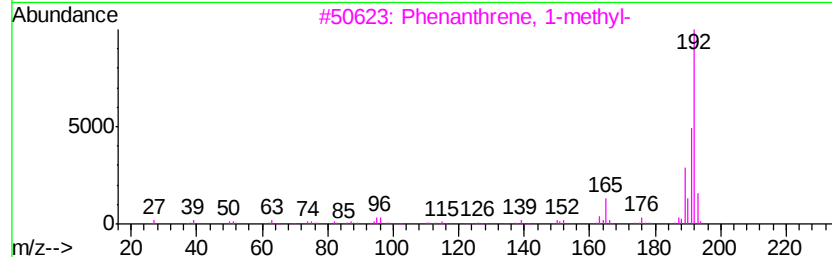
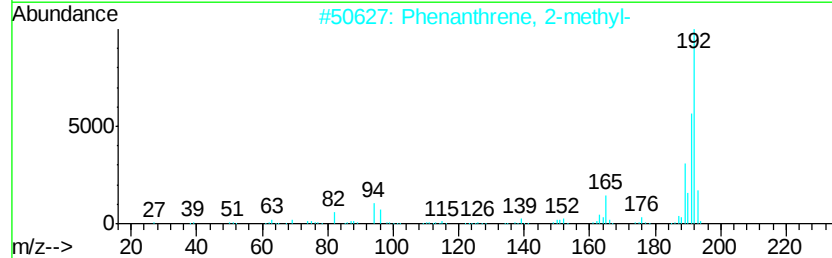
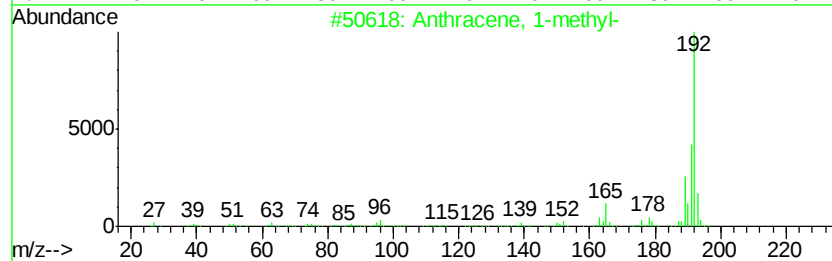
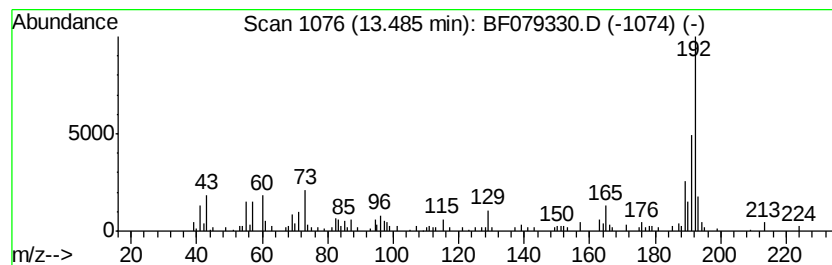
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.49 | 4.62 ng | 133851 | Phenanthrene-d10 | 12.75 |

| Hit# | of | 5 | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 1-methyl-                 | 192 | C15H12  | 000610-48-0 | 97   |
| 2    |    |   | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 95   |
| 3    |    |   | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 95   |
| 4    |    |   | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 92   |
| 5    |    |   | 1H-Cyclopropa[1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 83   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
Sample : G2282-07  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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

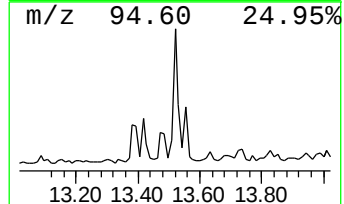
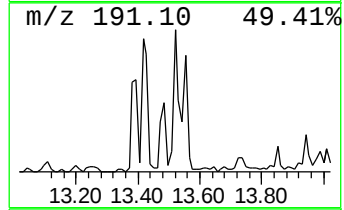
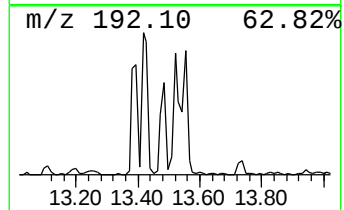
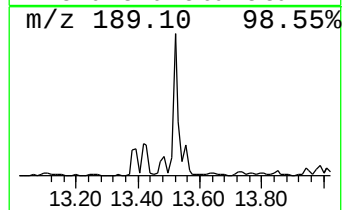
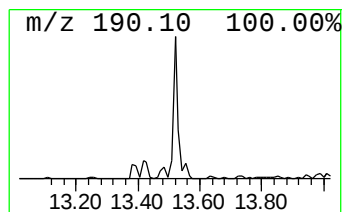
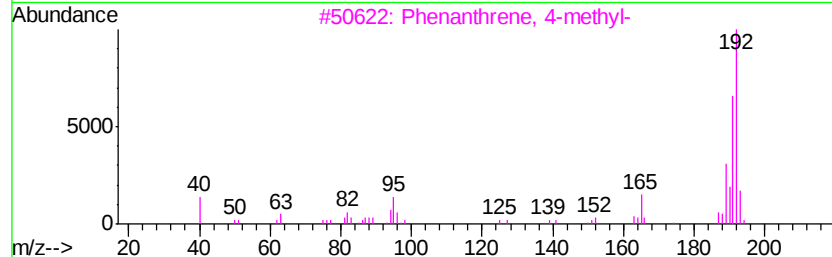
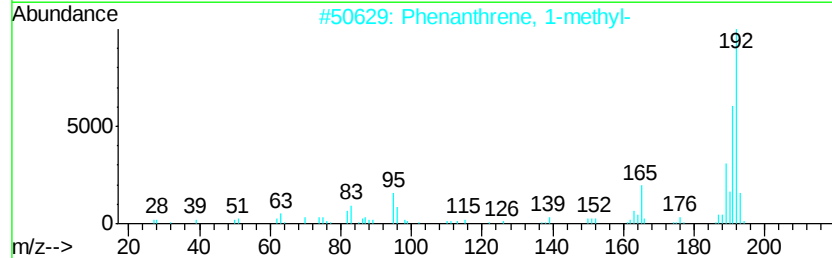
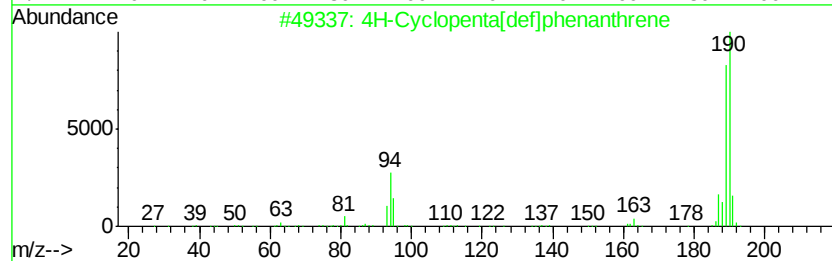
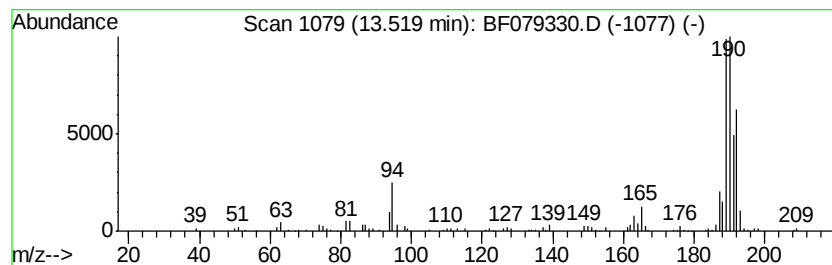
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.52 | 9.41 ng | 272931 | Phenanthrene-d10 | 12.75 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10  | 000203-64-5 | 70   |
| 2    |    | Phenanthrene, 1-methyl-        | 192 | C15H12  | 000832-69-9 | 35   |
| 3    |    | Phenanthrene, 4-methyl-        | 192 | C15H12  | 000832-64-4 | 30   |
| 4    |    | Phenanthrene, 2-methyl-        | 192 | C15H12  | 002531-84-2 | 30   |
| 5    |    | Anthracene, 1-methyl-          | 192 | C15H12  | 000610-48-0 | 25   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
Sample : G2282-07  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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

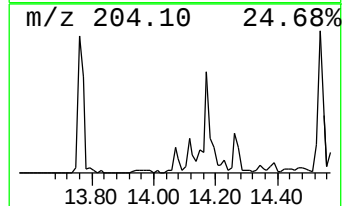
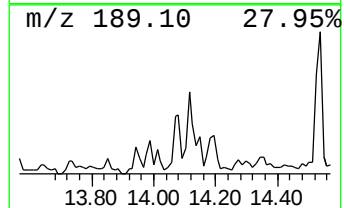
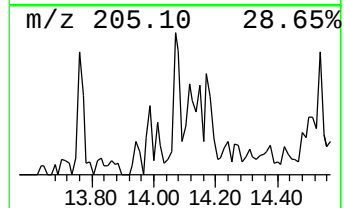
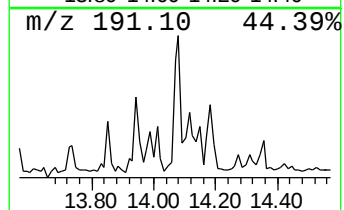
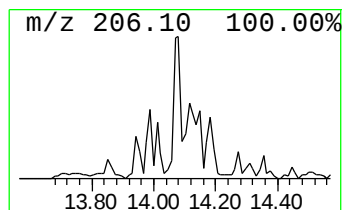
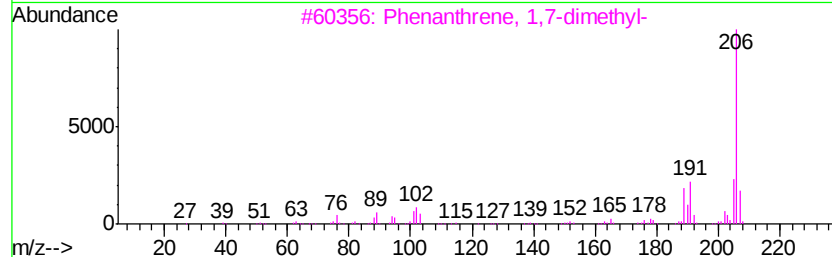
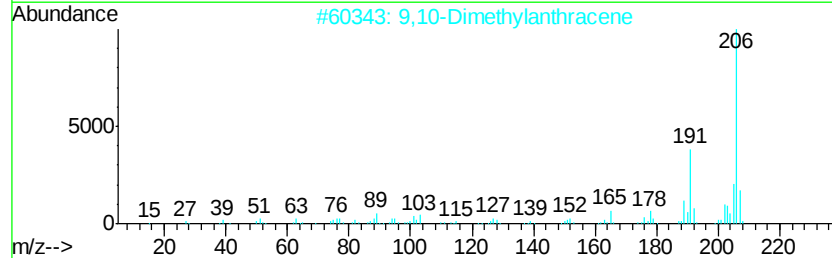
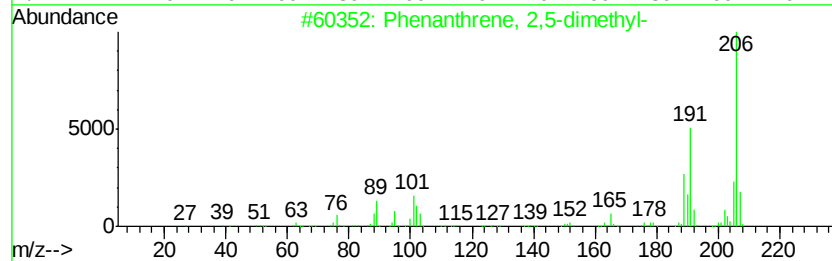
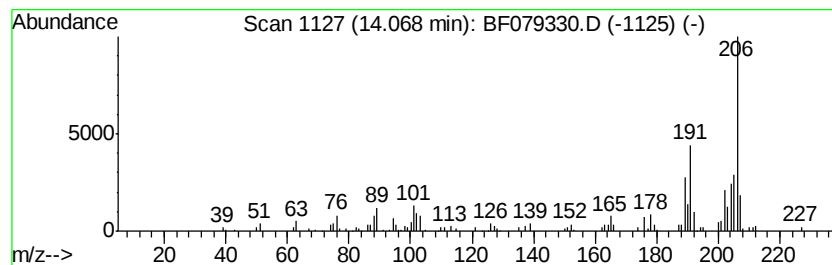
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.07 | 4.26 ng | 123407 | Phenanthrene-d10 | 12.75 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 93   |
| 2    |    |   | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 93   |
| 3    |    |   | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 90   |
| 4    |    |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 90   |
| 5    |    |   | Anthracene, 1,4-dimethyl-   | 206 | C16H14  | 000781-92-0 | 89   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
Sample : G2282-07  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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

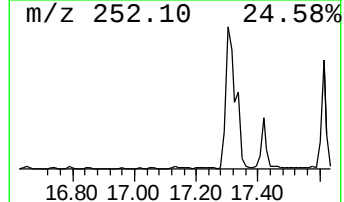
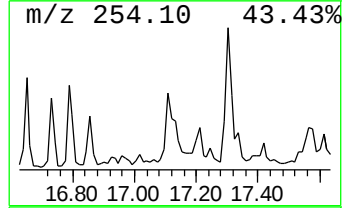
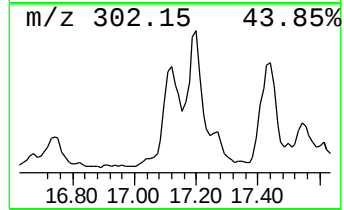
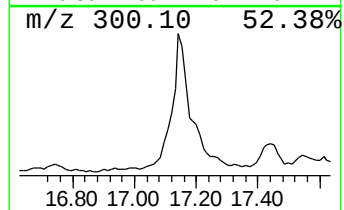
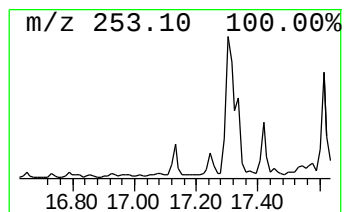
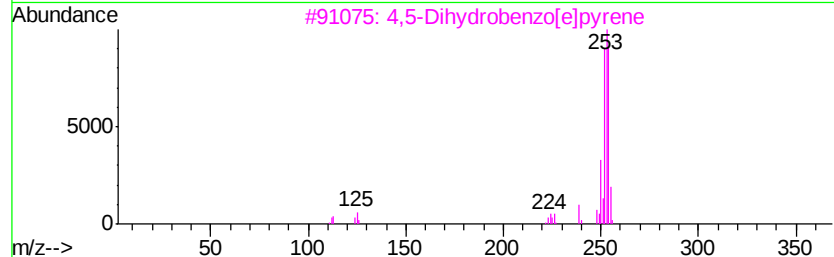
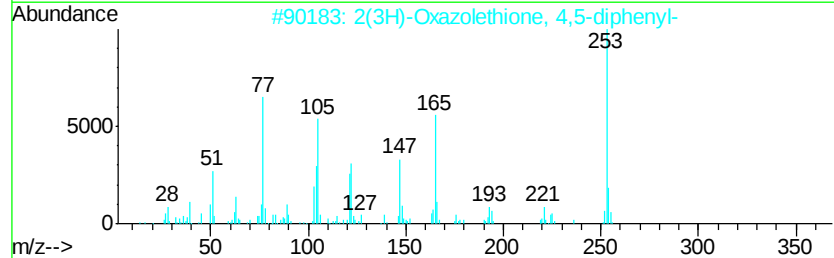
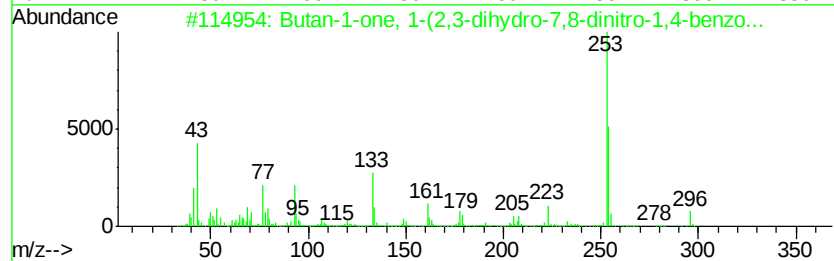
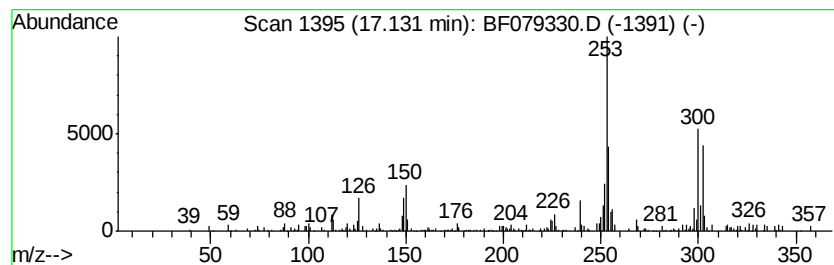
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 unknown17.13 Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.13 | 8.57 ng | 228935 | Perylene-d12     | 17.74 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Butan-1-one, 1-(2,3-dihydro-7,8-... | 296 | C12H12N2O7 | 1000273-76-9 | 25   |
| 2    |    | 2(3H)-Oxazolethione, 4,5-diphenyl-  | 253 | C15H11NOS  | 006670-13-9  | 22   |
| 3    |    | 4,5-Dihydrobenzo[el]pyrene          | 254 | C20H14     | 095676-42-9  | 20   |
| 4    |    | 1,1'-Binaphthalene                  | 254 | C20H14     | 000604-53-5  | 20   |
| 5    |    | 1,2'-Binaphthalene                  | 254 | C20H14     | 004325-74-0  | 14   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
Sample : G2282-07  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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

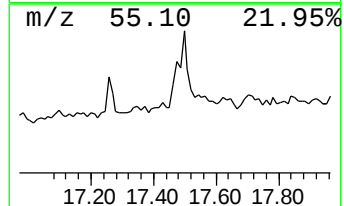
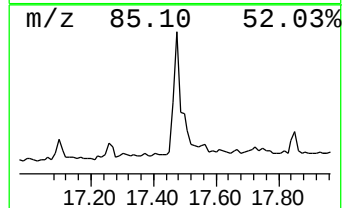
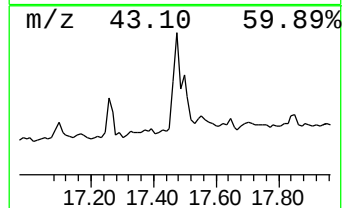
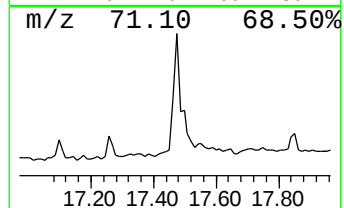
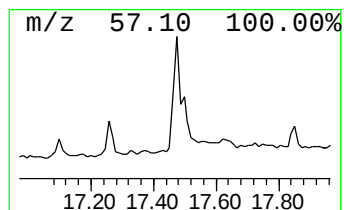
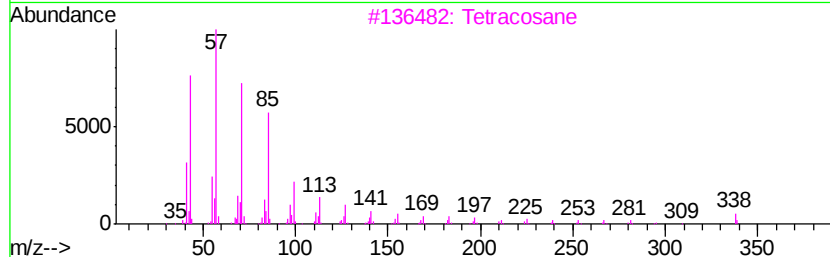
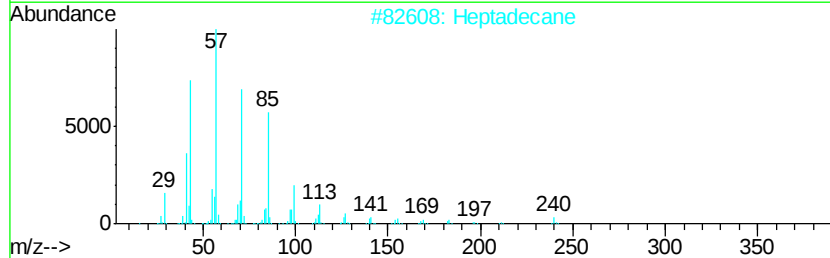
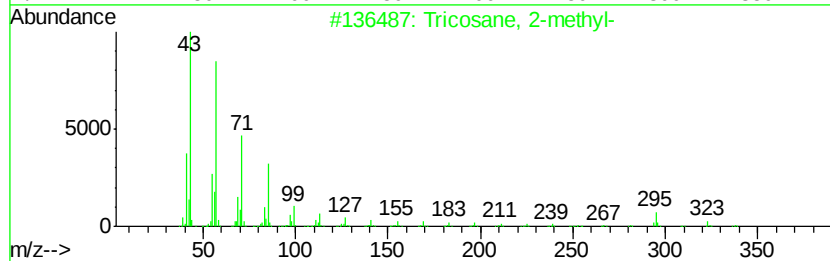
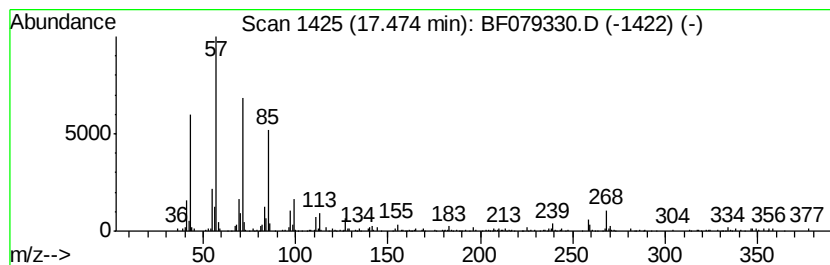
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Tricosane, 2-methyl- Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.47 | 6.30 ng | 168427 | Perylene-d12     | 17.74 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Tricosane, 2-methyl-             | 338 | C24H50  | 001928-30-9 | 91   |
| 2    |    |   | Heptadecane                      | 240 | C17H36  | 000629-78-7 | 91   |
| 3    |    |   | Tetracosane                      | 338 | C24H50  | 000646-31-1 | 87   |
| 4    |    |   | Tetradecane, 2,6,10-trimethyl-   | 240 | C17H36  | 014905-56-7 | 81   |
| 5    |    |   | Heneicosane, 11-(1-ethylpropyl)- | 366 | C26H54  | 055282-11-6 | 80   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
Sample : G2282-07  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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

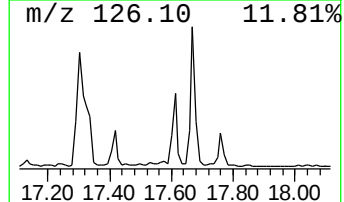
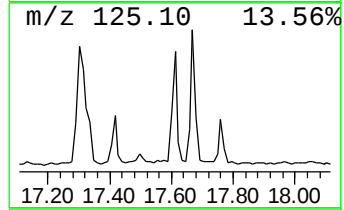
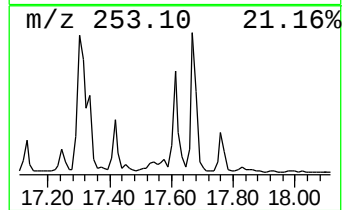
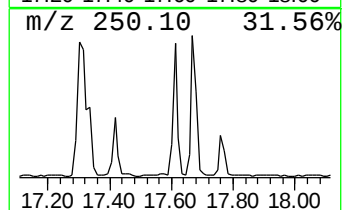
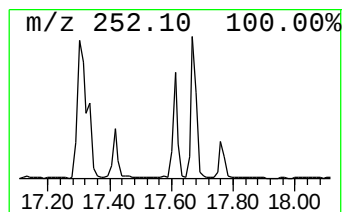
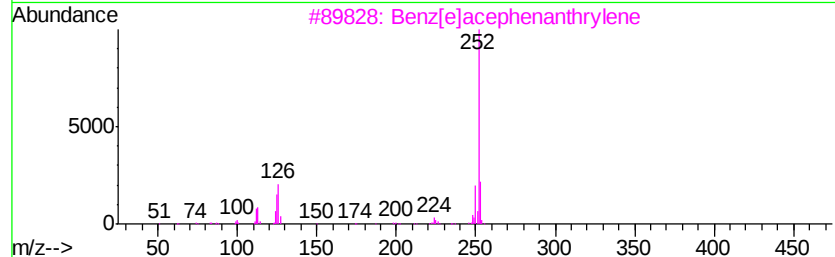
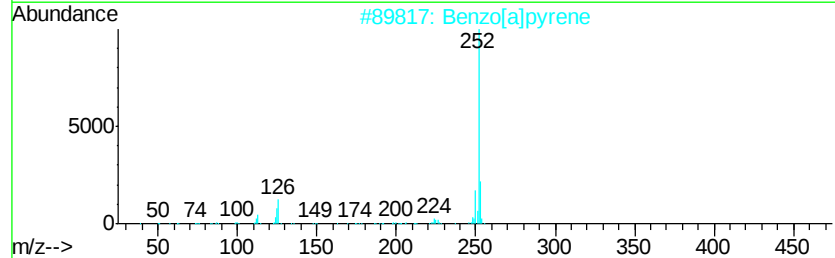
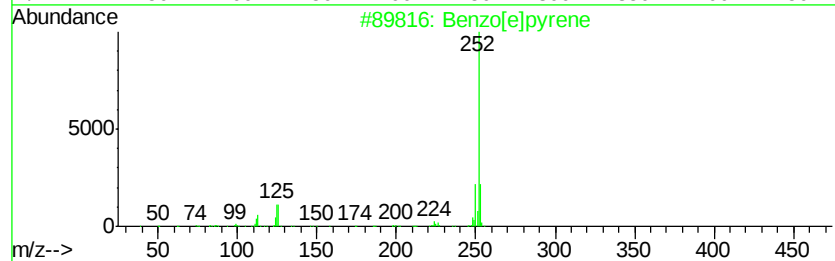
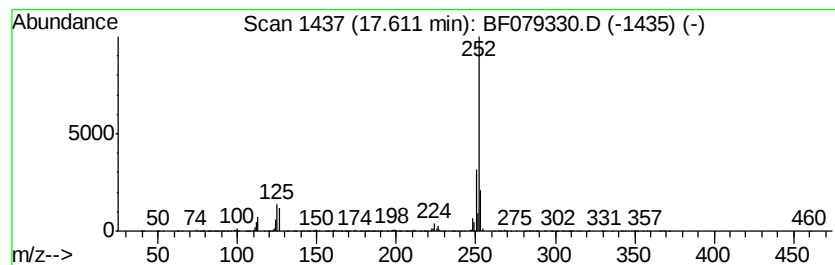
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Benzo[e]pyrene Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 17.61 | 19.83 ng | 529894 | Perylene-d12     | 17.74 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 94   |
| 2    |    |   | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 93   |
| 3    |    |   | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 91   |
| 4    |    |   | Benzo[i]fluoranthene      | 252 | C20H12  | 000205-82-3 | 90   |
| 5    |    |   | Perylene                  | 252 | C20H12  | 000198-55-0 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051815\  
Data File : BF079330.D  
Acq On : 19 May 2015 3:57  
Operator : TP/IZ  
Sample : G2282-07  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-01-D1

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

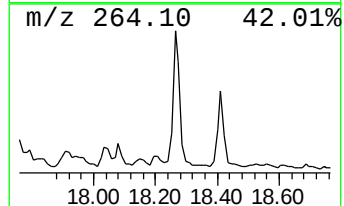
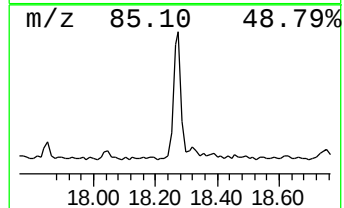
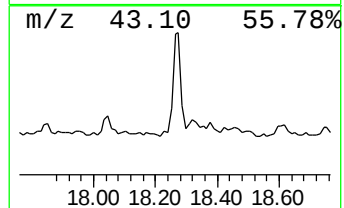
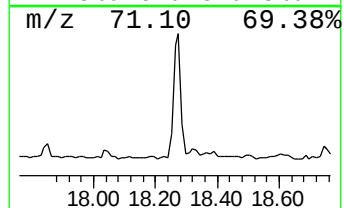
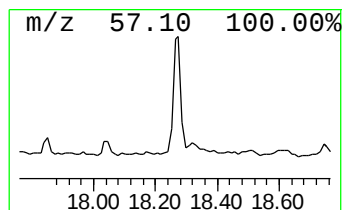
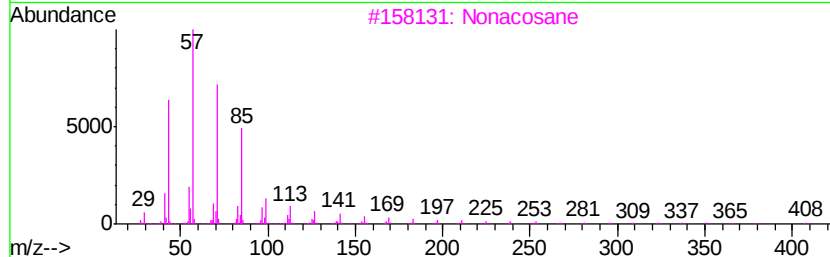
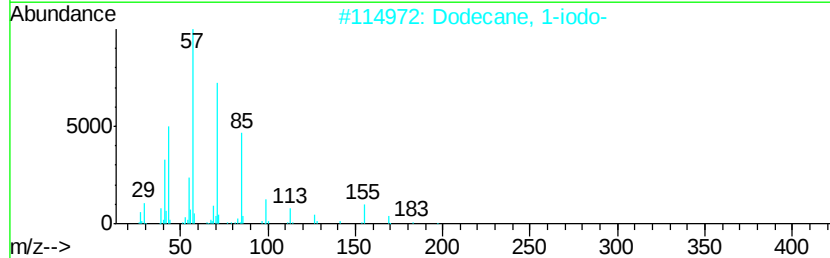
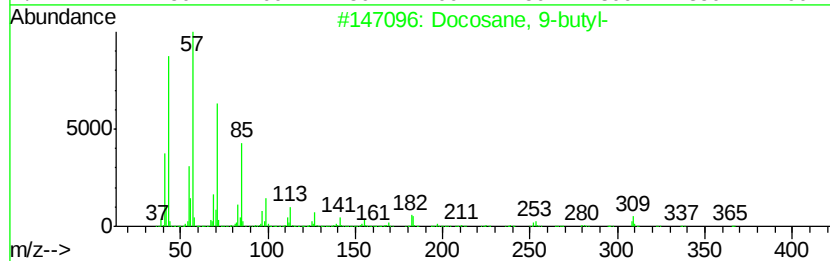
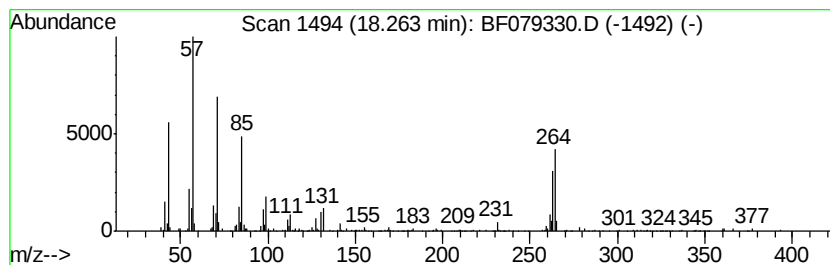
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 unknown18.26 Concentration Rank 10

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 18.26 | 11.53 ng | 308219 | Perylene-d12     | 17.74 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Docosane, 9-butyl-    | 366 | C26H54  | 055282-14-9 | 38   |
| 2    |    | Dodecane, 1-iodo-     | 296 | C12H25I | 004292-19-7 | 38   |
| 3    |    | Nonacosane            | 408 | C29H60  | 000630-03-5 | 35   |
| 4    |    | Tridecane, 1-iodo-    | 310 | C13H27I | 035599-77-0 | 35   |
| 5    |    | Octadecane, 2-methyl- | 268 | C19H40  | 001560-88-9 | 35   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051815\  
 Data File : BF079330.D  
 Acq On : 19 May 2015 3:57  
 Operator : TP/IZ  
 Sample : G2282-07  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-01-D1

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 |
| unknown1.31          | 1.31  | 239.5   | ng    | 3711930  | 1                     | 7.16  | 310024 | 20.0 |
| 1-Pentene, 2-methyl- | 1.44  | 17.7    | ng    | 274659   | 1                     | 7.16  | 310024 | 20.0 |
| Butane, 2-methoxy... | 1.60  | 13.2    | ng    | 204671   | 1                     | 7.16  | 310024 | 20.0 |
| 2-Pentanone, 4-hy... | 4.94  | 15.1    | ng    | 234511   | 1                     | 7.16  | 310024 | 20.0 |
| unknown6.88          | 6.88  | 79.2    | ng    | 1227440  | 1                     | 7.16  | 310024 | 20.0 |
| Anthracene, 1-met... | 13.38 | 4.4     | ng    | 128174   | 4                     | 12.75 | 579995 | 20.0 |
| Phenanthrene, 2-m... | 13.42 | 5.5     | ng    | 160472   | 4                     | 12.75 | 579995 | 20.0 |
| Phenanthrene, 1-m... | 13.49 | 4.6     | ng    | 133851   | 4                     | 12.75 | 579995 | 20.0 |
| 4H-Cyclopenta[def... | 13.52 | 9.4     | ng    | 272931   | 4                     | 12.75 | 579995 | 20.0 |
| Phenanthrene, 2,5... | 14.07 | 4.3     | ng    | 123407   | 4                     | 12.75 | 579995 | 20.0 |
| unknown17.13         | 17.13 | 8.6     | ng    | 228935   | 6                     | 17.74 | 534478 | 20.0 |
| Tricosane, 2-methyl- | 17.47 | 6.3     | ng    | 168427   | 6                     | 17.74 | 534478 | 20.0 |
| Benzo[e]pyrene       | 17.61 | 19.8    | ng    | 529894   | 6                     | 17.74 | 534478 | 20.0 |
| unknown18.26         | 18.26 | 11.5    | ng    | 308219   | 6                     | 17.74 | 534478 | 20.0 |