

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
 Data File : BF088431.D  
 Acq On : 26 Jun 2016 21:22  
 Operator : UM/SJ  
 Sample : H3663-05 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-3

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-BF060716.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         | 1.690       | 8             | 9           | 40           | rVB      | 146239         | 324305        | 18.28%          | 0.959%        |
| 2         | 4.650       | 265           | 268         | 284          | rBV      | 151691         | 246413        | 13.89%          | 0.729%        |
| 3         | 5.130       | 308           | 310         | 326          | rBV      | 613200         | 931044        | 52.49%          | 2.754%        |
| 4         | 6.170       | 399           | 401         | 403          | rBB      | 106615         | 88147         | 4.97%           | 0.261%        |
| 5         | 6.216       | 403           | 405         | 412          | rBV      | 871266         | 1005437       | 56.69%          | 2.975%        |
| 6         | 6.319       | 412           | 414         | 429          | rVB      | 1068139        | 1116278       | 62.93%          | 3.302%        |
| 7         | 6.547       | 432           | 434         | 445          | rBV      | 392448         | 437770        | 24.68%          | 1.295%        |
| 8         | 6.696       | 445           | 447         | 450          | rBV      | 785843         | 824926        | 46.51%          | 2.440%        |
| 9         | 7.119       | 482           | 484         | 497          | rBV      | 543474         | 628896        | 35.46%          | 1.861%        |
| 10        | 7.827       | 544           | 546         | 559          | rBV2     | 468709         | 720457        | 40.62%          | 2.131%        |
| 11        | 8.548       | 607           | 609         | 615          | rBV      | 43763          | 40346         | 2.27%           | 0.119%        |
| 12        | 8.913       | 638           | 641         | 643          | rBV      | 1350326        | 1321122       | 74.48%          | 3.908%        |
| 13        | 9.313       | 674           | 676         | 678          | rBV      | 266907         | 217915        | 12.29%          | 0.645%        |
| 14        | 9.576       | 697           | 699         | 701          | rBV      | 775833         | 735781        | 41.48%          | 2.177%        |
| 15        | 9.610       | 701           | 702         | 704          | rVB      | 246860         | 181117        | 10.21%          | 0.536%        |
| 16        | 9.782       | 715           | 717         | 719          | rBV      | 68033          | 62285         | 3.51%           | 0.184%        |
| 17        | 10.125      | 744           | 747         | 750          | rVB      | 90713          | 101398        | 5.72%           | 0.300%        |
| 18        | 10.365      | 765           | 768         | 771          | rBV      | 719538         | 709450        | 40.00%          | 2.099%        |
| 19        | 10.491      | 777           | 779         | 782          | rVB      | 40669          | 60464         | 3.41%           | 0.179%        |
| 20        | 10.913      | 814           | 816         | 817          | rBV      | 37637          | 43215         | 2.44%           | 0.128%        |
| 21        | 10.948      | 817           | 819         | 823          | rVB2     | 60776          | 90100         | 5.08%           | 0.267%        |
| 22        | 11.073      | 826           | 830         | 833          | rBV2     | 958835         | 1639786       | 92.45%          | 4.851%        |
| 23        | 11.131      | 833           | 835         | 837          | rVV      | 245067         | 272132        | 15.34%          | 0.805%        |
| 24        | 11.165      | 837           | 838         | 841          | rVB      | 28154          | 37825         | 2.13%           | 0.112%        |
| 25        | 11.291      | 846           | 849         | 853          | rBV2     | 124378         | 200890        | 11.33%          | 0.594%        |
| 26        | 11.359      | 853           | 855         | 860          | rVB2     | 42399          | 71136         | 4.01%           | 0.210%        |
| 27        | 11.554      | 869           | 872         | 873          | rBV      | 93954          | 100516        | 5.67%           | 0.297%        |
| 28        | 11.576      | 873           | 874         | 876          | rVV      | 120974         | 149232        | 8.41%           | 0.441%        |
| 29        | 11.611      | 876           | 877         | 880          | rVV2     | 56020          | 102990        | 5.81%           | 0.305%        |
| 30        | 11.656      | 880           | 881         | 887          | rVB      | 195823         | 273961        | 15.45%          | 0.810%        |
| 31        | 11.771      | 887           | 891         | 894          | rBV2     | 29963          | 61138         | 3.45%           | 0.181%        |
| 32        | 11.851      | 896           | 898         | 899          | rVV      | 54248          | 55679         | 3.14%           | 0.165%        |
| 33        | 11.885      | 899           | 901         | 903          | rVB      | 42502          | 39656         | 2.24%           | 0.117%        |
| 34        | 12.102      | 918           | 920         | 921          | rBV      | 39342          | 49528         | 2.79%           | 0.147%        |

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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-BF060716.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 12.136 | 921  | 923  | 926  | rVB3 | 25117   | 51851   | 2.92%   | 0.153% |
| 36 | 12.194 | 926  | 928  | 931  | rVB3 | 53805   | 67219   | 3.79%   | 0.199% |
| 37 | 12.262 | 931  | 934  | 936  | rBV  | 1584708 | 1597301 | 90.05%  | 4.725% |
| 38 | 12.331 | 936  | 940  | 942  | rVB2 | 30757   | 60873   | 3.43%   | 0.180% |
| 39 | 12.411 | 944  | 947  | 948  | rBV  | 51854   | 75647   | 4.26%   | 0.224% |
| 40 | 12.491 | 951  | 954  | 956  | rVV  | 1050104 | 1637369 | 92.31%  | 4.844% |
| 41 | 12.537 | 956  | 958  | 962  | rVB  | 62188   | 93031   | 5.24%   | 0.275% |
| 42 | 12.605 | 962  | 964  | 965  | rBV  | 82154   | 104331  | 5.88%   | 0.309% |
| 43 | 12.628 | 965  | 966  | 970  | rVV2 | 745136  | 1038851 | 58.57%  | 3.073% |
| 44 | 12.708 | 970  | 973  | 975  | rVB2 | 70660   | 122732  | 6.92%   | 0.363% |
| 45 | 12.811 | 978  | 982  | 984  | rBV  | 222959  | 309517  | 17.45%  | 0.916% |
| 46 | 12.879 | 984  | 988  | 989  | rBV  | 204015  | 208511  | 11.76%  | 0.617% |
| 47 | 12.914 | 989  | 991  | 995  | rVV2 | 141974  | 239609  | 13.51%  | 0.709% |
| 48 | 13.005 | 997  | 999  | 1000 | rVV  | 68678   | 57479   | 3.24%   | 0.170% |
| 49 | 13.039 | 1000 | 1002 | 1007 | rVB2 | 59382   | 79807   | 4.50%   | 0.236% |
| 50 | 13.234 | 1014 | 1019 | 1023 | rBV3 | 66813   | 134638  | 7.59%   | 0.398% |
| 51 | 13.291 | 1023 | 1024 | 1026 | rBV2 | 30925   | 50933   | 2.87%   | 0.151% |
| 52 | 13.325 | 1026 | 1027 | 1033 | rVB  | 86501   | 125896  | 7.10%   | 0.372% |
| 53 | 13.428 | 1033 | 1036 | 1039 | rBV2 | 158689  | 323931  | 18.26%  | 0.958% |
| 54 | 13.474 | 1039 | 1040 | 1044 | rVB3 | 118333  | 201841  | 11.38%  | 0.597% |
| 55 | 13.542 | 1044 | 1046 | 1049 | rBV  | 287738  | 376910  | 21.25%  | 1.115% |
| 56 | 13.599 | 1049 | 1051 | 1053 | rVB  | 40668   | 53914   | 3.04%   | 0.160% |
| 57 | 13.668 | 1053 | 1057 | 1059 | rBV2 | 839643  | 1658217 | 93.49%  | 4.906% |
| 58 | 13.782 | 1065 | 1067 | 1069 | rVB  | 199123  | 193787  | 10.93%  | 0.573% |
| 59 | 13.885 | 1069 | 1076 | 1077 | rBV3 | 110378  | 234262  | 13.21%  | 0.693% |
| 60 | 13.919 | 1077 | 1079 | 1083 | rVB  | 74728   | 109585  | 6.18%   | 0.324% |
| 61 | 13.977 | 1083 | 1084 | 1087 | rVB2 | 52781   | 67251   | 3.79%   | 0.199% |
| 62 | 14.068 | 1087 | 1092 | 1093 | rBV2 | 138432  | 275184  | 15.51%  | 0.814% |
| 63 | 14.102 | 1093 | 1095 | 1096 | rVB2 | 44290   | 57751   | 3.26%   | 0.171% |
| 64 | 14.171 | 1096 | 1101 | 1106 | rBV3 | 335398  | 775203  | 43.70%  | 2.293% |
| 65 | 14.388 | 1116 | 1120 | 1123 | rBV3 | 87185   | 179341  | 10.11%  | 0.531% |
| 66 | 14.457 | 1123 | 1126 | 1130 | rVB5 | 39823   | 93687   | 5.28%   | 0.277% |
| 67 | 14.537 | 1130 | 1133 | 1135 | rBV2 | 88038   | 149925  | 8.45%   | 0.444% |
| 68 | 14.582 | 1135 | 1137 | 1139 | rVB  | 556550  | 520731  | 29.36%  | 1.541% |
| 69 | 14.628 | 1139 | 1141 | 1143 | rBV2 | 29561   | 53502   | 3.02%   | 0.158% |
| 70 | 14.674 | 1143 | 1145 | 1149 | rBV  | 839173  | 1773717 | 100.00% | 5.247% |
| 71 | 14.765 | 1149 | 1153 | 1158 | rVB2 | 586708  | 972520  | 54.83%  | 2.877% |

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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-3

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-BF060716.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 14.845 | 1158 | 1160 | 1161 | rBV2 | 35665  | 67638  | 3.81%  | 0.200% |
| 73  | 14.880 | 1161 | 1163 | 1165 | rVB2 | 60343  | 84264  | 4.75%  | 0.249% |
| 74  | 14.925 | 1165 | 1167 | 1170 | rBV  | 536092 | 653541 | 36.85% | 1.933% |
| 75  | 14.982 | 1170 | 1172 | 1175 | rBV  | 791839 | 900498 | 50.77% | 2.664% |
| 76  | 15.028 | 1175 | 1176 | 1178 | rBV  | 278816 | 460183 | 25.94% | 1.361% |
| 77  | 15.177 | 1187 | 1189 | 1190 | rBV  | 40482  | 50196  | 2.83%  | 0.149% |
| 78  | 15.211 | 1190 | 1192 | 1196 | rVV2 | 171213 | 262828 | 14.82% | 0.778% |
| 79  | 15.405 | 1206 | 1209 | 1211 | rBV  | 302271 | 452333 | 25.50% | 1.338% |
| 80  | 15.451 | 1211 | 1213 | 1215 | rVV3 | 50295  | 96298  | 5.43%  | 0.285% |
| 81  | 15.497 | 1215 | 1217 | 1221 | rVB  | 79606  | 131570 | 7.42%  | 0.389% |
| 82  | 15.943 | 1254 | 1256 | 1258 | rVV2 | 23896  | 39191  | 2.21%  | 0.116% |
| 83  | 16.034 | 1262 | 1264 | 1267 | rVV2 | 57361  | 100063 | 5.64%  | 0.296% |
| 84  | 16.091 | 1267 | 1269 | 1270 | rVV2 | 47293  | 69892  | 3.94%  | 0.207% |
| 85  | 16.125 | 1270 | 1272 | 1274 | rVV  | 45145  | 73294  | 4.13%  | 0.217% |
| 86  | 16.205 | 1274 | 1279 | 1281 | rVV4 | 45555  | 153940 | 8.68%  | 0.455% |
| 87  | 16.263 | 1281 | 1284 | 1291 | rVV  | 402216 | 836172 | 47.14% | 2.474% |
| 88  | 16.400 | 1294 | 1296 | 1298 | rBV2 | 67982  | 130388 | 7.35%  | 0.386% |
| 89  | 16.445 | 1298 | 1300 | 1303 | rVB2 | 56996  | 111999 | 6.31%  | 0.331% |
| 90  | 16.628 | 1313 | 1316 | 1325 | rBV  | 306958 | 777688 | 43.85% | 2.301% |
| 91  | 16.754 | 1325 | 1327 | 1331 | rVV3 | 22602  | 51348  | 2.89%  | 0.152% |
| 92  | 16.834 | 1331 | 1334 | 1339 | rVB  | 104162 | 233665 | 13.17% | 0.691% |
| 93  | 16.926 | 1339 | 1342 | 1346 | rVB3 | 17933  | 41395  | 2.33%  | 0.122% |
| 94  | 17.166 | 1360 | 1363 | 1369 | rVB3 | 38350  | 102968 | 5.81%  | 0.305% |
| 95  | 17.280 | 1369 | 1373 | 1376 | rBV3 | 24228  | 73279  | 4.13%  | 0.217% |
| 96  | 17.474 | 1386 | 1390 | 1395 | rVB4 | 47234  | 131381 | 7.41%  | 0.389% |
| 97  | 18.491 | 1472 | 1479 | 1484 | rBV  | 79791  | 312284 | 17.61% | 0.924% |
| 98  | 18.651 | 1485 | 1493 | 1497 | rBV2 | 34000  | 162645 | 9.17%  | 0.481% |
| 99  | 18.949 | 1515 | 1519 | 1527 | rBV3 | 14140  | 49698  | 2.80%  | 0.147% |
| 100 | 19.440 | 1557 | 1562 | 1566 | rBV  | 29187  | 122954 | 6.93%  | 0.364% |

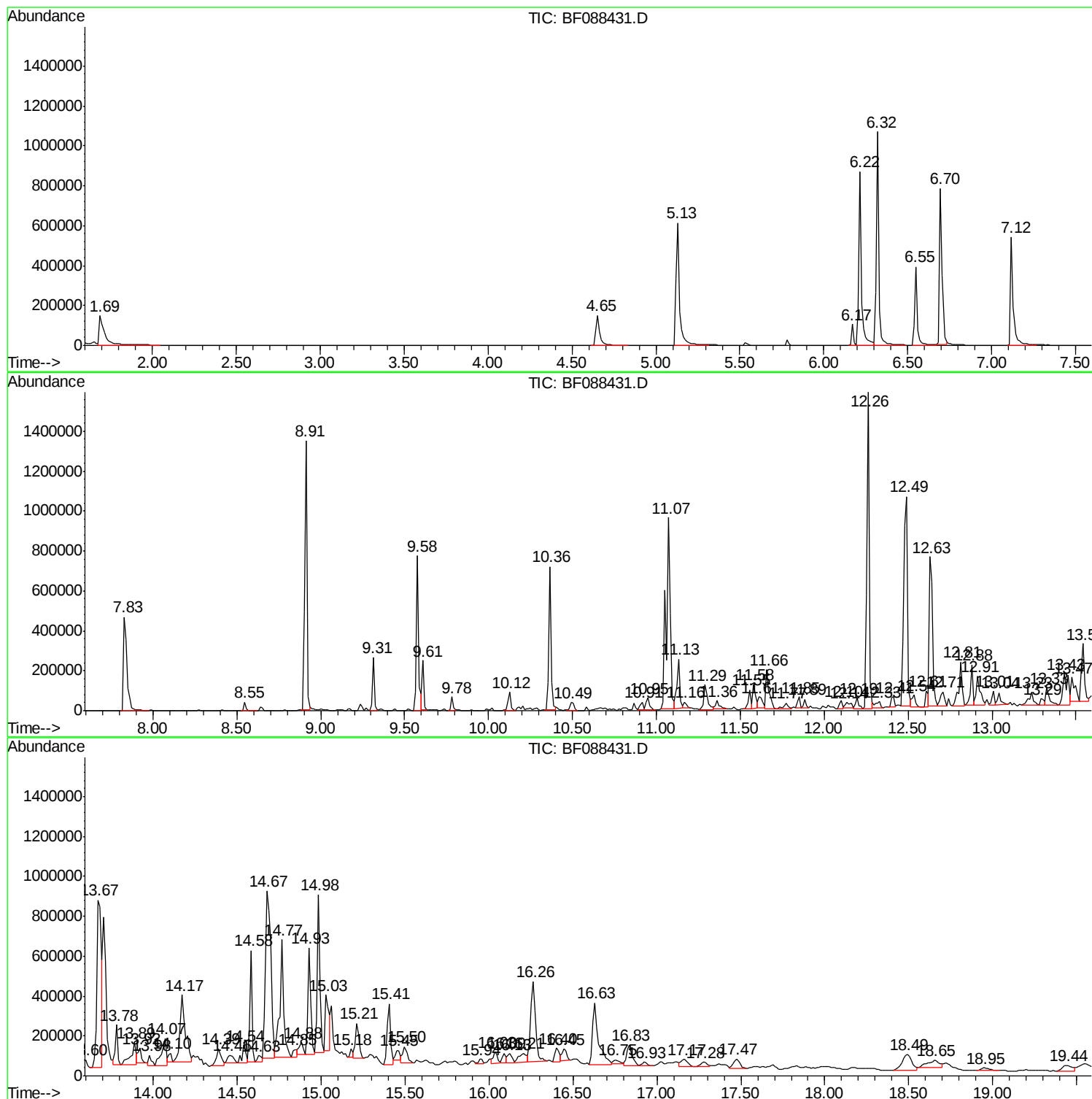
Sum of corrected areas: 33801782

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ClientSampled :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

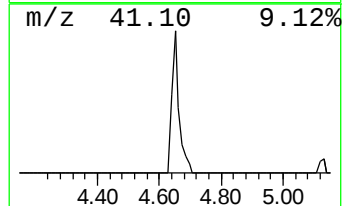
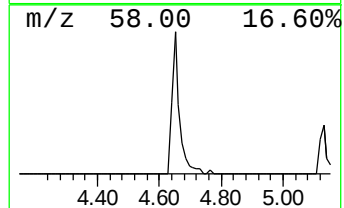
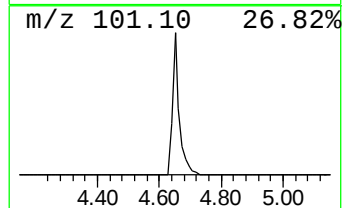
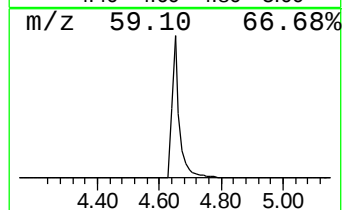
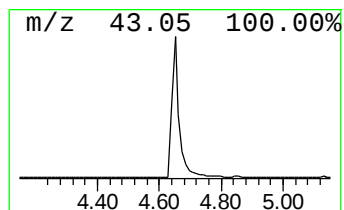
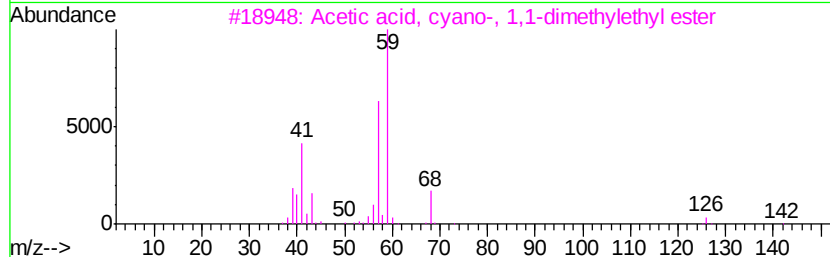
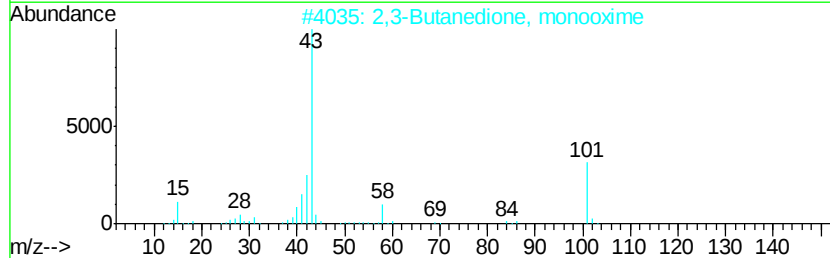
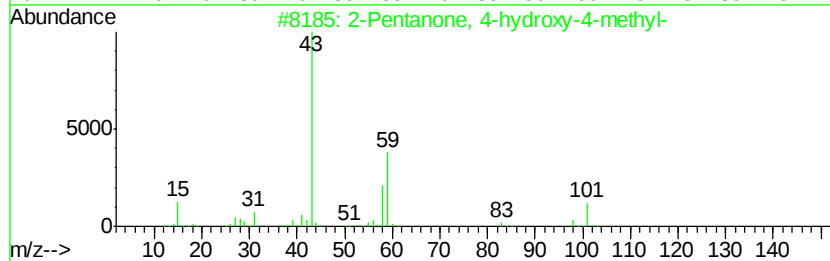
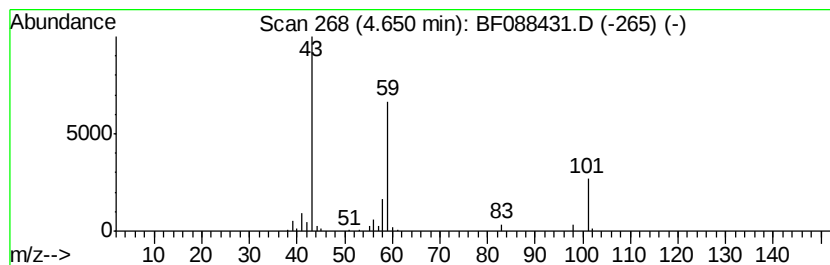
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 10

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.65 | 11.26 ng | 246413 | 1,4-Dichlorobenzene-d4 | 6.55 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 25   |
| 3    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 4    |    | 5-Hexen-2-one                        | 98  | C6H10O   | 000109-49-9 | 9    |
| 5    |    | Morpholine, 4-methyl-                | 101 | C5H11NO  | 000109-02-4 | 9    |



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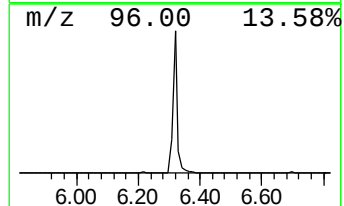
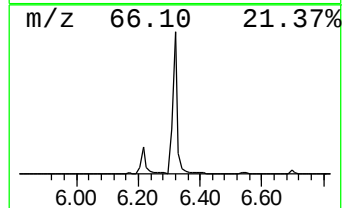
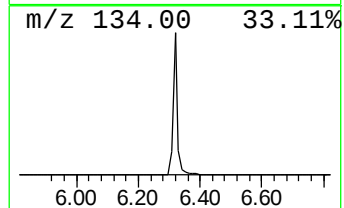
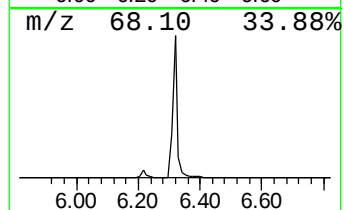
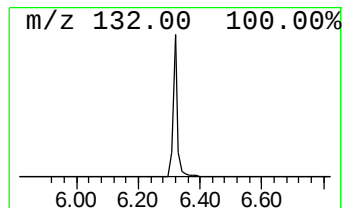
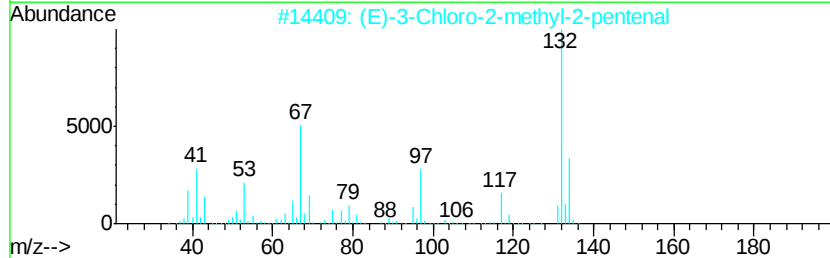
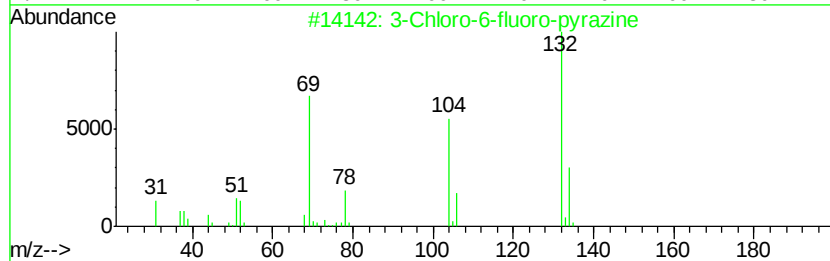
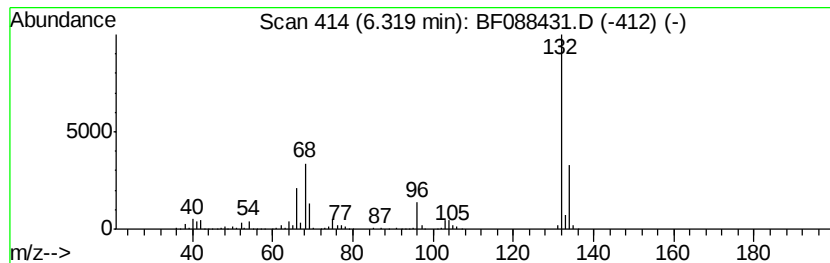
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 unknown6.32 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.32 | 51.00 ng | 1116280 | 1,4-Dichlorobenzene-d4 | 6.55 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 38   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 25   |
| 3    |    | Tranvlcyproline-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 4-Chloro-2-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-59-9  | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-3

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

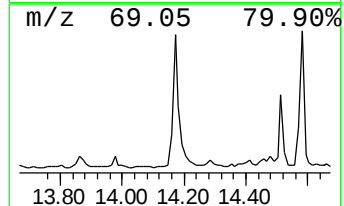
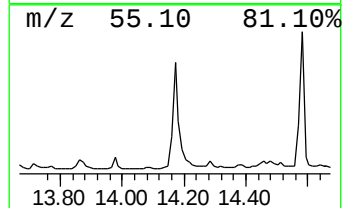
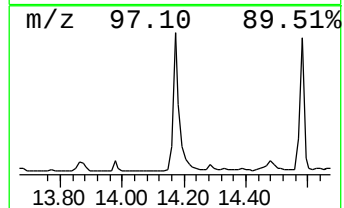
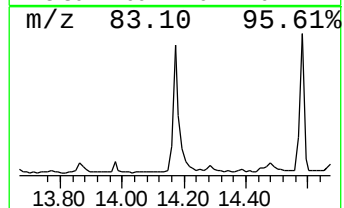
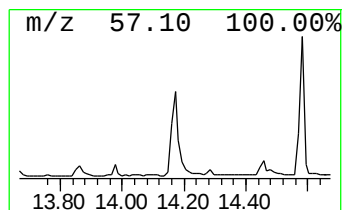
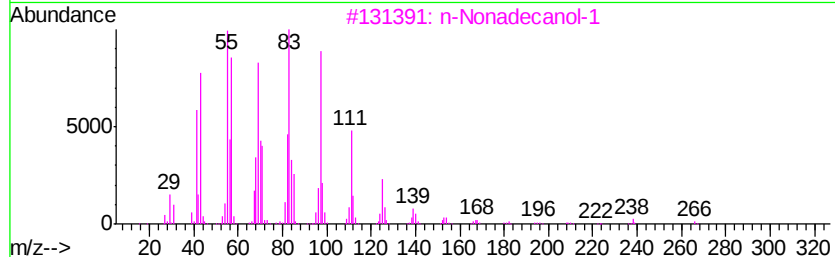
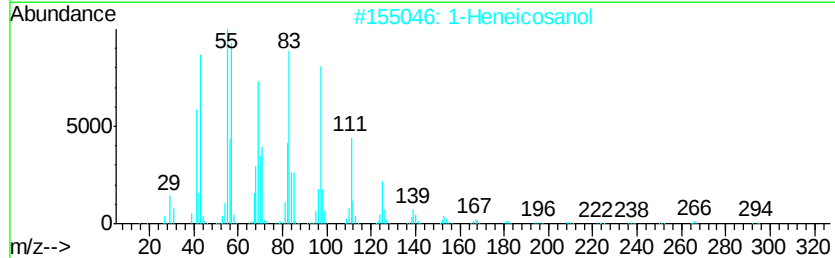
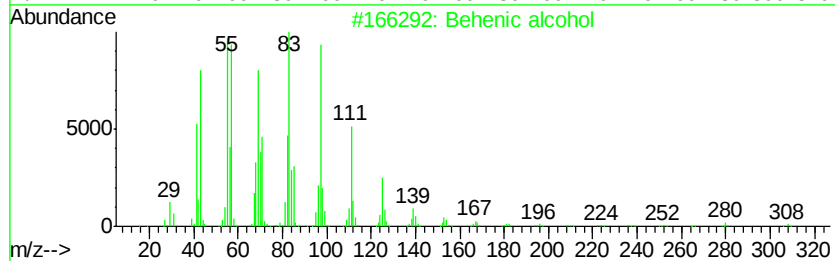
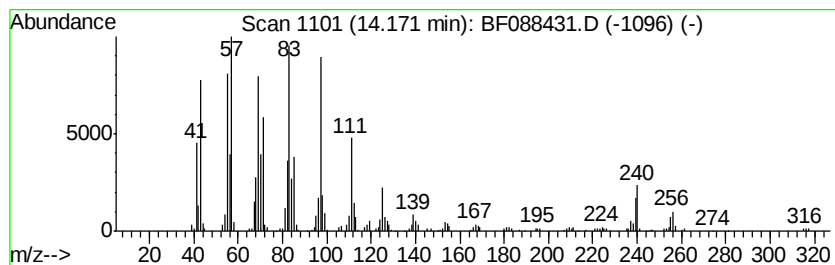
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Behenic alcohol Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.17 | 9.35 ng | 775203 | Chrysene-d12     | 13.68 |

| Hit# of | 5 | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|---------|---|------------------|-----|---------|-------------|------|
| 1       |   | Behenic alcohol  | 326 | C22H46O | 000661-19-8 | 93   |
| 2       |   | 1-Heneicosanol   | 312 | C21H44O | 015594-90-8 | 93   |
| 3       |   | n-Nonadecanol-1  | 284 | C19H40O | 001454-84-8 | 93   |
| 4       |   | 1-Heptacosanol   | 396 | C27H56O | 002004-39-9 | 93   |
| 5       |   | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 93   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-3

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

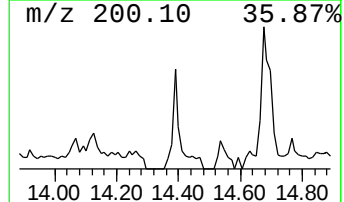
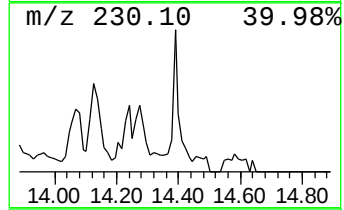
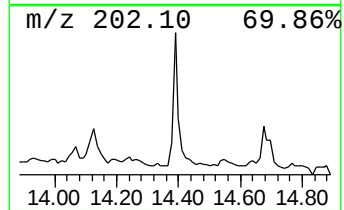
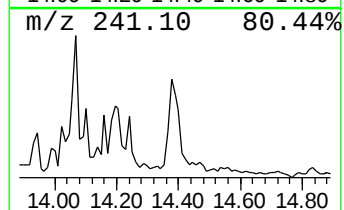
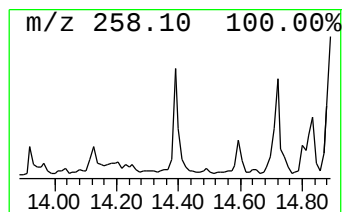
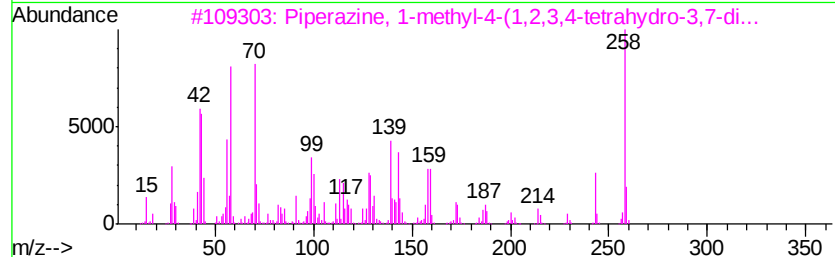
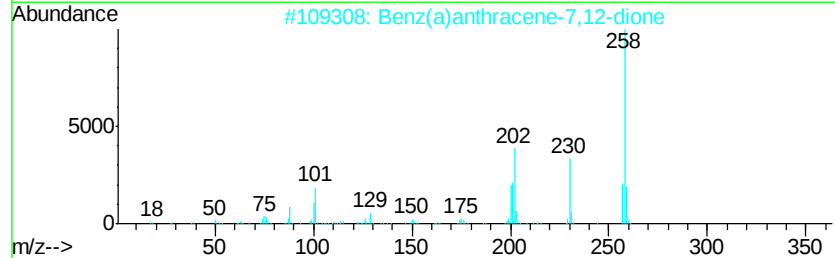
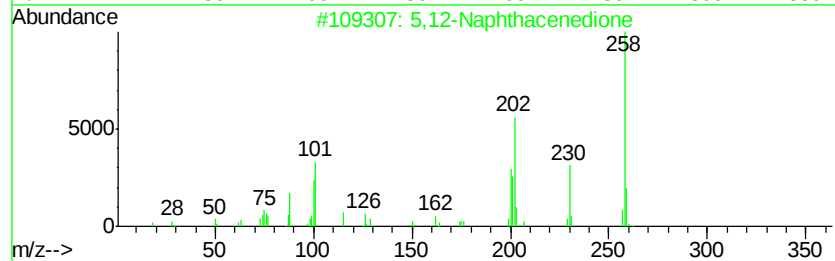
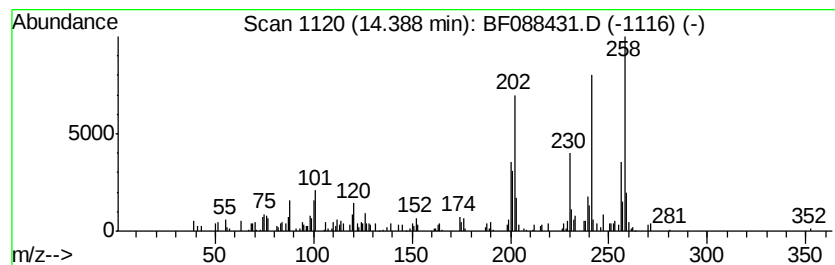
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 5,12-Naphthacenedione Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.39 | 7.79 ng | 179341 | Perylene-d12     | 15.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 5,12-Naphthacenedione               | 258 | C18H10O2  | 001090-13-7  | 91   |
| 2    |    | Benz(a)anthracene-7,12-dione        | 258 | C18H10O2  | 002498-66-0  | 91   |
| 3    |    | Piperazine, 1-methyl-4-(1,2,3,4-... | 258 | C17H26N2  | 055591-14-5  | 90   |
| 4    |    | 1,8-Anthracenedinitrile, 9,10-di... | 258 | C16H6N2O2 | 090866-50-5  | 55   |
| 5    |    | Androst-2,16-diene                  | 256 | C19H28    | 1000193-07-5 | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-3

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

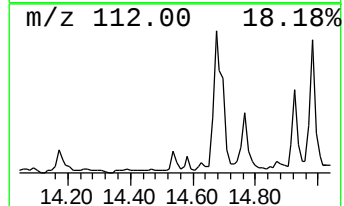
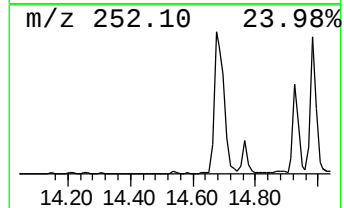
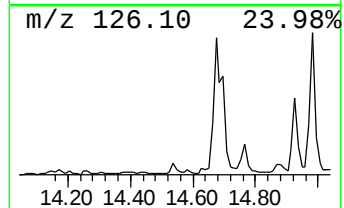
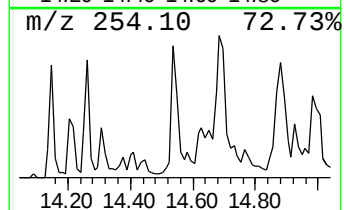
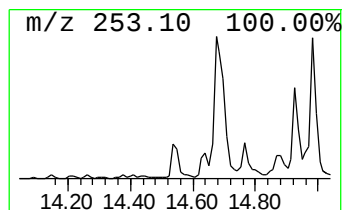
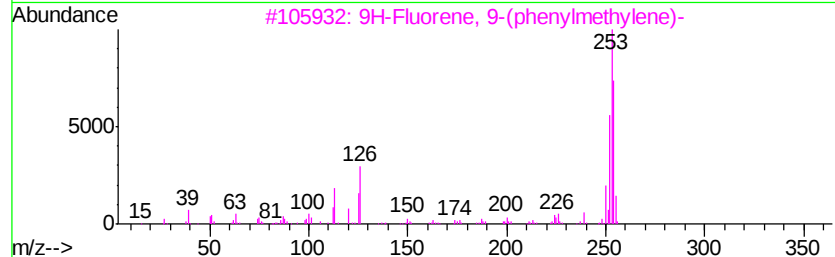
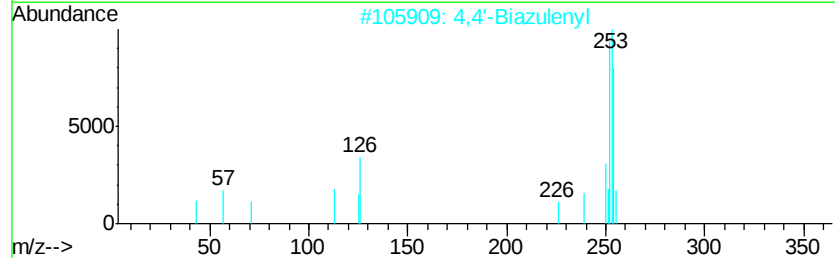
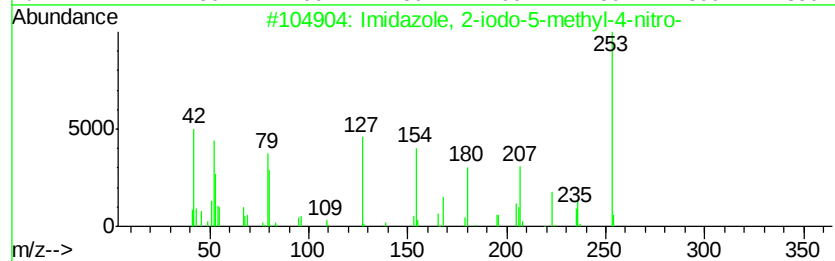
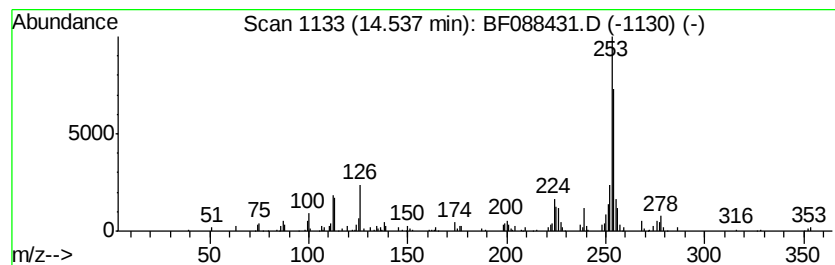
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Imidazole, 2-iodo-5-methyl-... Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.54 | 6.52 ng | 149925 | Perylene-d12     | 15.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Imidazole, 2-iodo-5-methyl-4-nitro- | 253 | C4H4IN3O2 | 149510-86-1 | 83   |
| 2    |    | 4,4'-Biazulenyl                     | 254 | C20H14    | 094053-54-0 | 76   |
| 3    |    | 9H-Fluorene, 9-(phenylmethyl)-      | 254 | C20H14    | 001836-87-9 | 76   |
| 4    |    | 1,1'-Binaphthalene                  | 254 | C20H14    | 000604-53-5 | 70   |
| 5    |    | 4,5-Dihydrobenzo[e]pyrene           | 254 | C20H14    | 095676-42-9 | 64   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-3

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

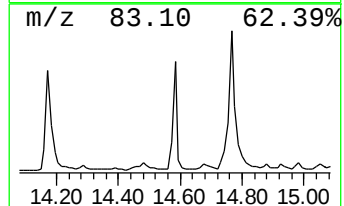
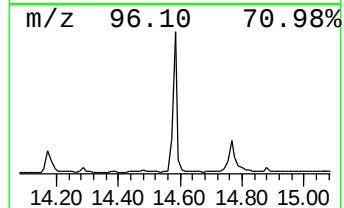
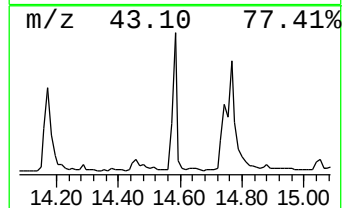
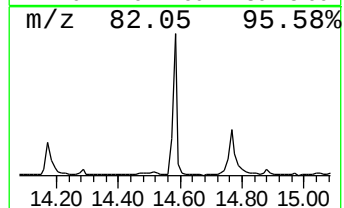
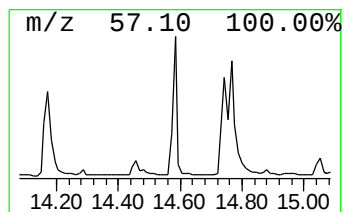
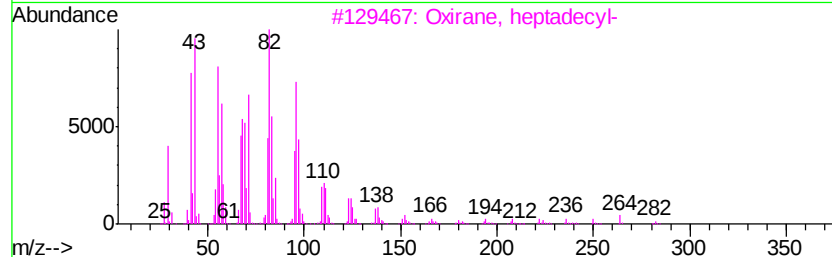
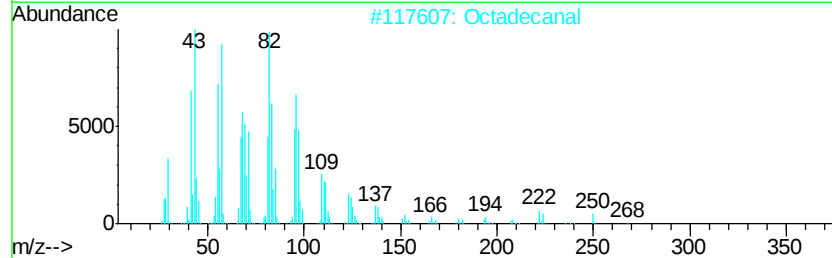
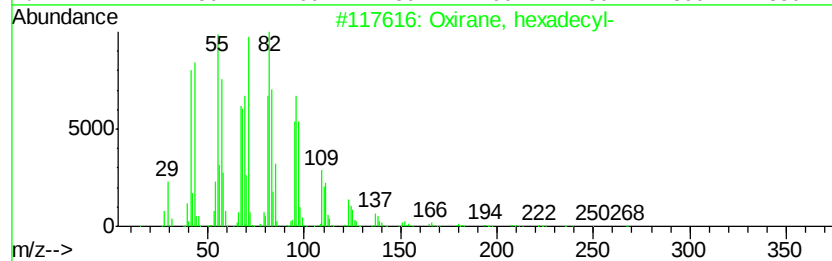
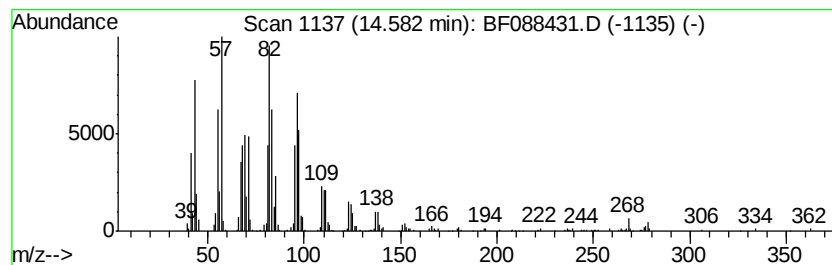
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Oxirane, hexadecyl- Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 14.58 | 22.63 ng | 520731 | Perylene-d12     | 15.03 |

| Hit# | of | Tentative ID              | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------|-----|----------|-------------|------|
| 1    | 5  | Oxirane, hexadecyl-       | 268 | C18H36O  | 007390-81-0 | 91   |
| 2    |    | Octadecanal               | 268 | C18H36O  | 000638-66-4 | 91   |
| 3    |    | Oxirane, heptadecyl-      | 282 | C19H38O  | 067860-04-2 | 87   |
| 4    |    | 1,19-Eicosadiene          | 278 | C20H38   | 014811-95-1 | 74   |
| 5    |    | (Z)-14-Tricosenyl formate | 366 | C24H46O2 | 077899-10-6 | 60   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-3

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

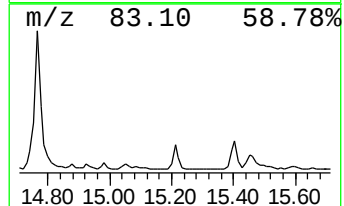
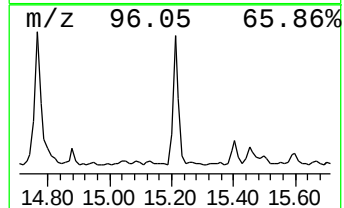
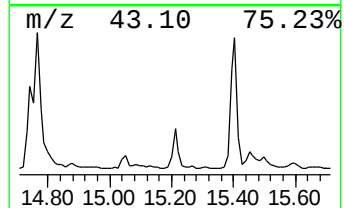
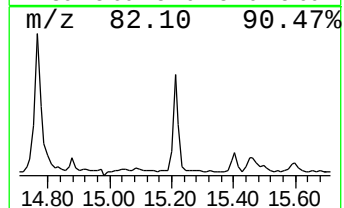
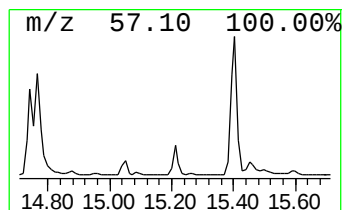
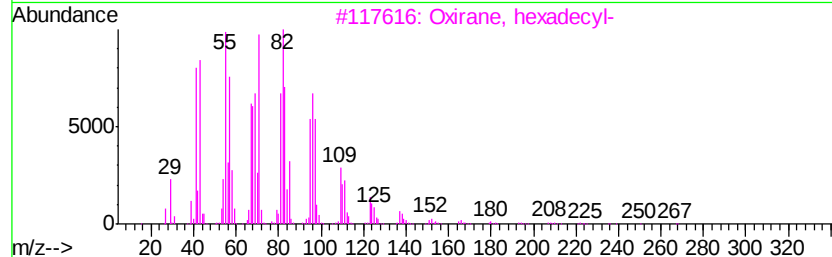
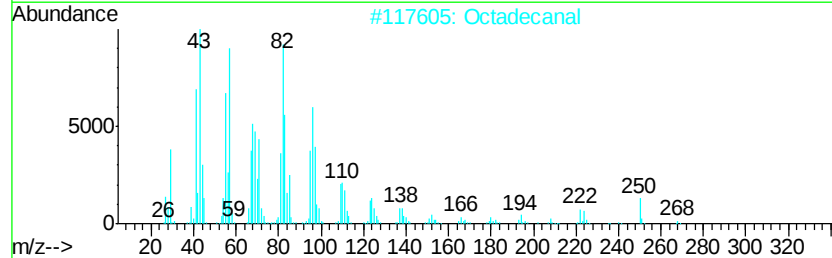
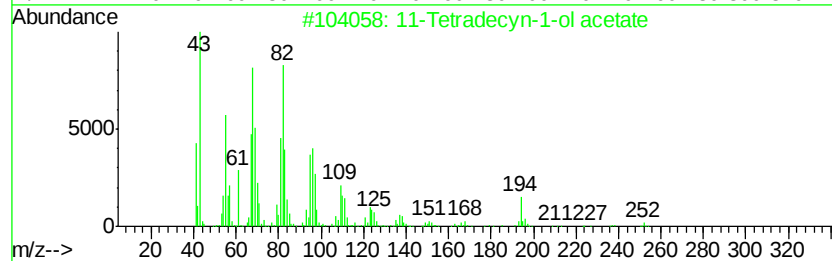
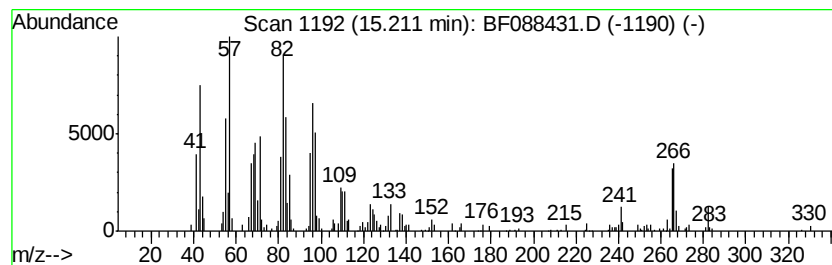
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 11-Tetradecyn-1-ol acetate Concentration Rank 9

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.21 | 11.42 ng | 262828 | Perylene-d12     | 15.03 |

| Hit# | of | Tentative ID               | MW  | MolForm  | CAS#         | Qual |
|------|----|----------------------------|-----|----------|--------------|------|
| 1    | 5  | 11-Tetradecyn-1-ol acetate | 252 | C16H28O2 | 033925-72-3  | 89   |
| 2    |    | Octadecanal                | 268 | C18H36O  | 000638-66-4  | 81   |
| 3    |    | Oxirane, hexadecyl-        | 268 | C18H36O  | 007390-81-0  | 81   |
| 4    |    | Heptadecanal               | 254 | C17H34O  | 1000376-70-0 | 74   |
| 5    |    | 1,19-Eicosadiene           | 278 | C20H38   | 014811-95-1  | 74   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-3

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

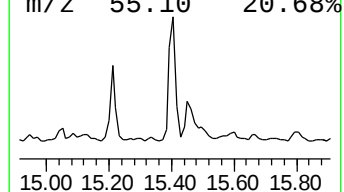
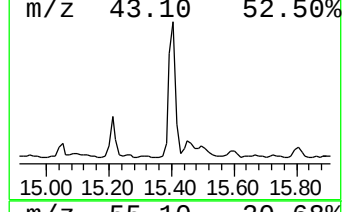
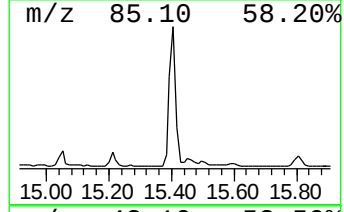
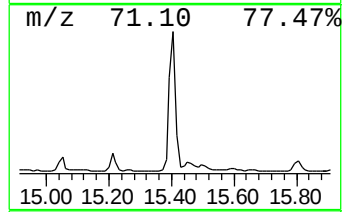
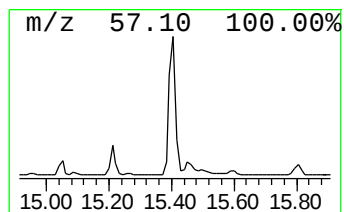
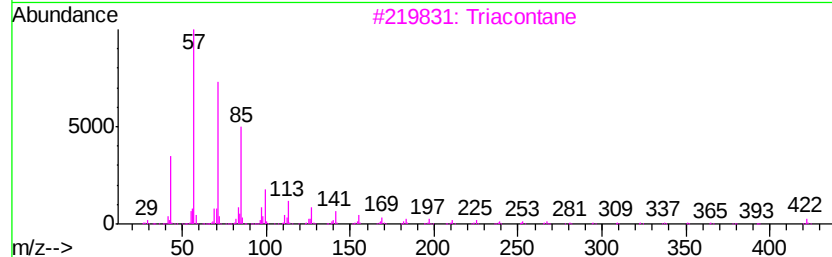
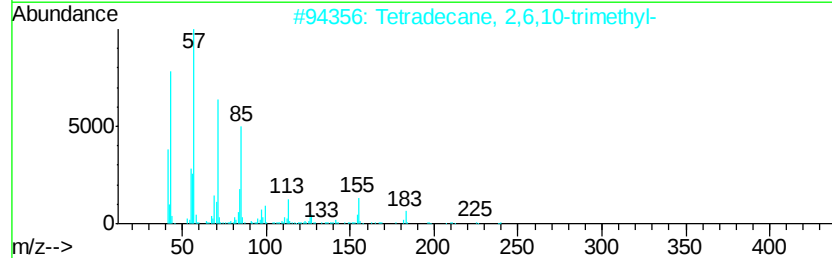
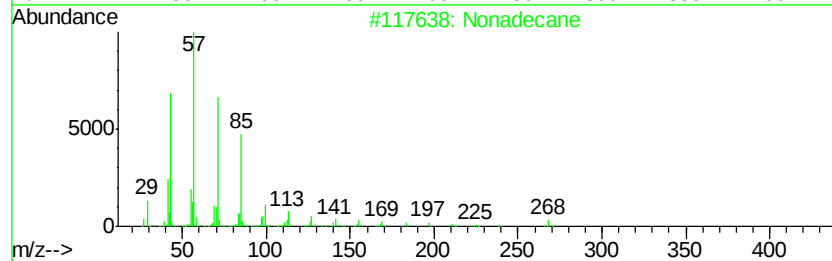
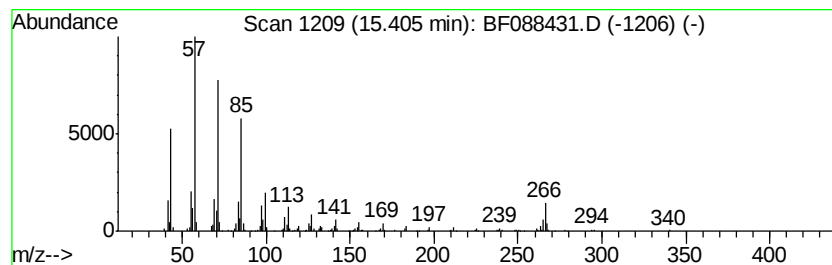
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 Nonadecane Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.41 | 19.66 ng | 452333 | Perylene-d12     | 15.03 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#         | Qual |
|------|----|--------------------------------|-----|---------|--------------|------|
| 1    | 5  | Nonadecane                     | 268 | C19H40  | 000629-92-5  | 94   |
| 2    |    | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36  | 014905-56-7  | 90   |
| 3    |    | Triacontane                    | 422 | C30H62  | 000638-68-6  | 87   |
| 4    |    | 2-methyloctacosane             | 408 | C29H60  | 1000376-72-8 | 87   |
| 5    |    | Heneicosane                    | 296 | C21H44  | 000629-94-7  | 87   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-3

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

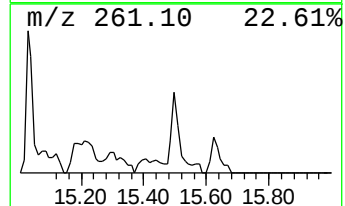
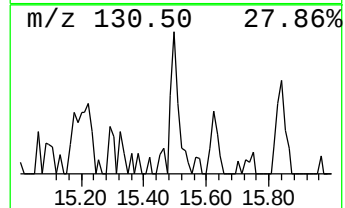
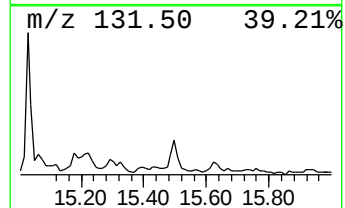
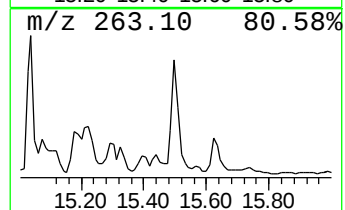
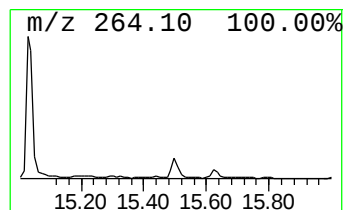
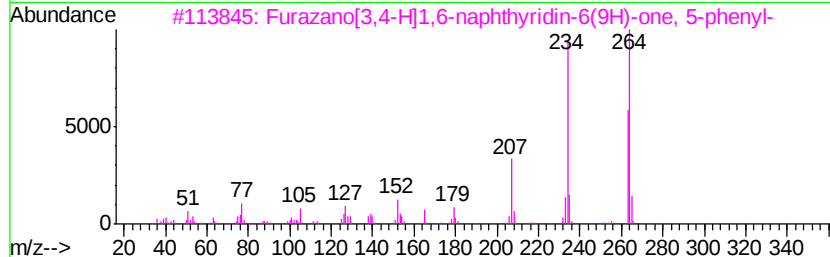
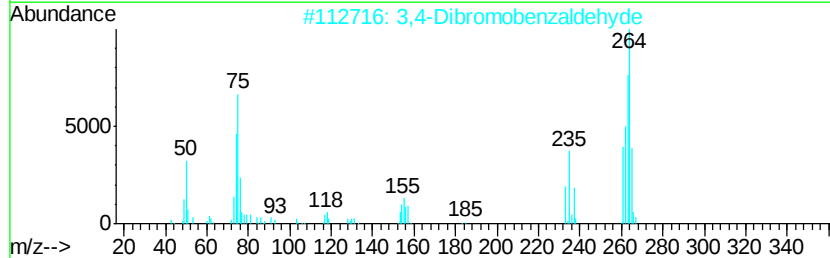
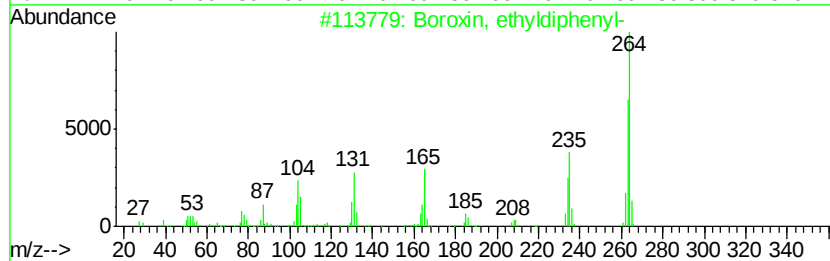
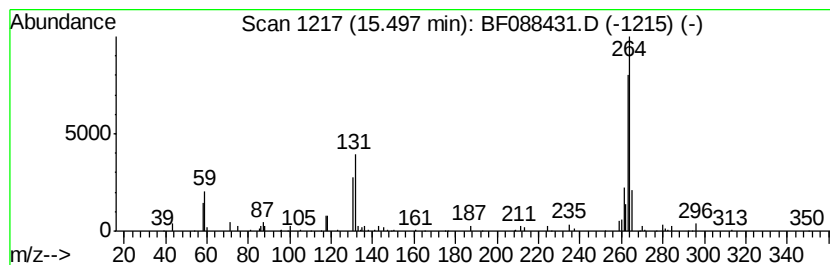
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Boroxin, ethyldiphenyl- Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.50 | 5.72 ng | 131570 | Perylene-d12     | 15.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|------|----|-------------------------------------|-----|--------------|--------------|------|
| 1    | 5  | Boroxin, ethyldiphenyl-             | 264 | C14H15B3O3   | 1000151-82-0 | 59   |
| 2    |    | 3,4-Dibromobenzaldehyde             | 262 | C7H4Br2O     | 074003-55-7  | 52   |
| 3    |    | Furazano[3,4-H]1,6-naphthvridin-... | 264 | C14H8N4O2    | 296245-19-7  | 38   |
| 4    |    | Diphenyl methyl phosphate           | 264 | C13H13O4P    | 000115-89-9  | 38   |
| 5    |    | 2-Bromo-5-fluorobenzyl alcohol, ... | 276 | C10H14BrFOSi | 1000364-22-3 | 23   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

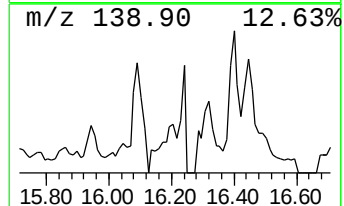
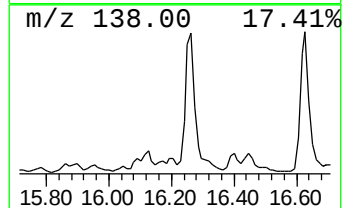
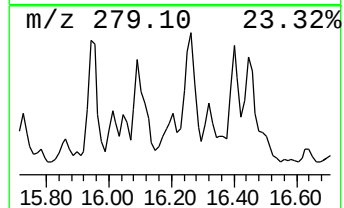
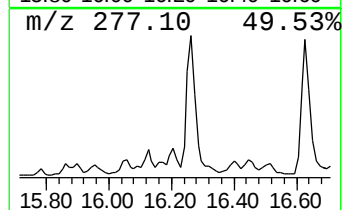
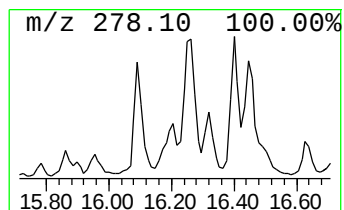
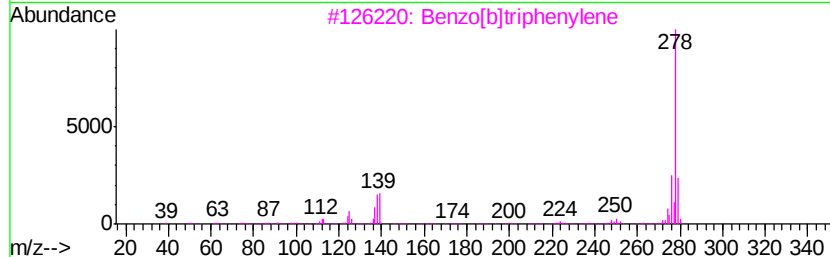
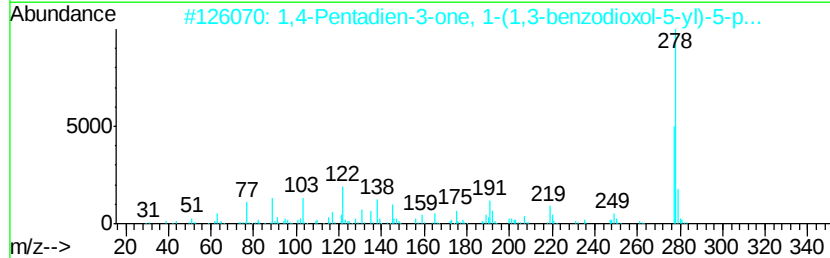
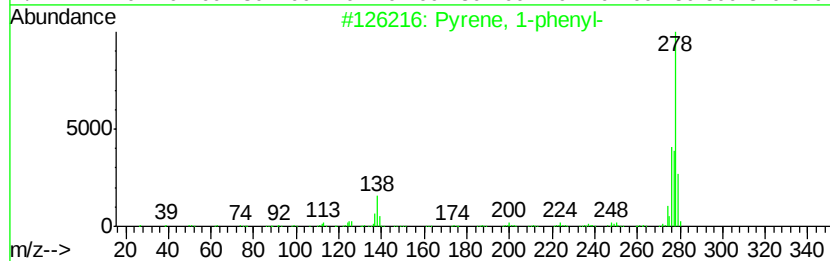
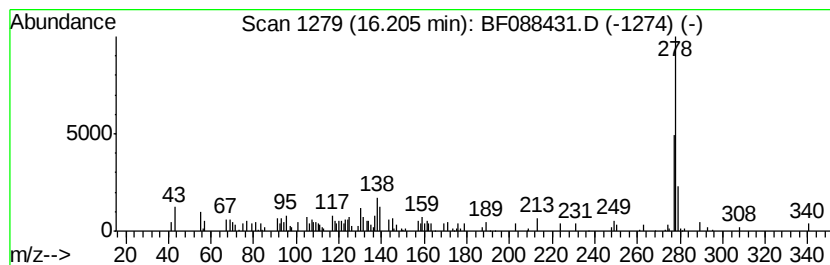
Instrument :  
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ClientSampleId :  
SS-3

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 14 Pyrene, 1-phenyl- Concentration Rank 15

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 16.21     | 6.69 ng                             | 153940 | Perylene-d12     | 15.03        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Pyrene, 1-phenyl-                   | 278    | C22H14           | 005101-27-9  | 87   |
| 2         | 1,4-Pentadien-3-one, 1-(1,3-benz... | 278    | C18H14O3         | 1000319-47-3 | 74   |
| 3         | Benzo[bltriphenylene                | 278    | C22H14           | 000215-58-7  | 64   |
| 4         | Picene                              | 278    | C22H14           | 000213-46-7  | 64   |
| 5         | Benzaldehyde, 4-hydroxy-3-iodo-5... | 278    | C8H7IO3          | 005438-36-8  | 59   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

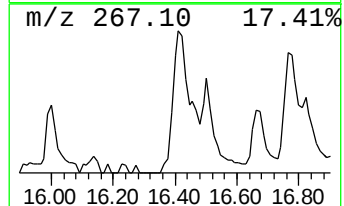
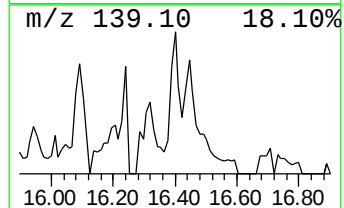
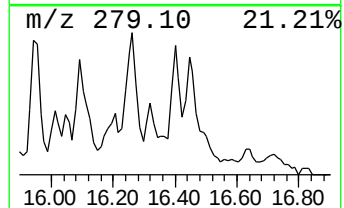
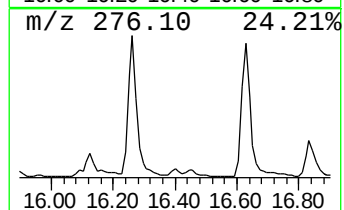
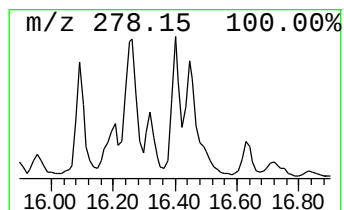
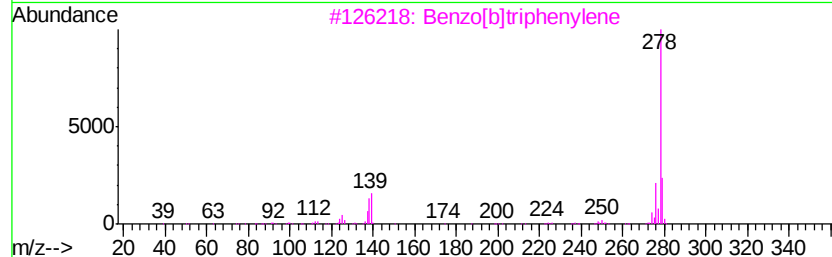
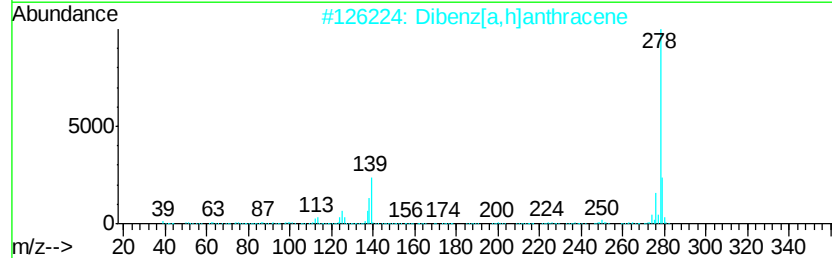
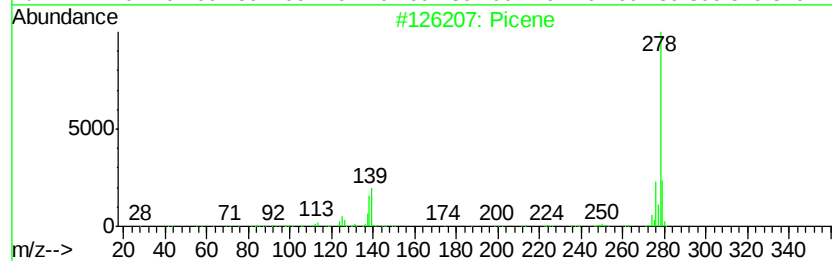
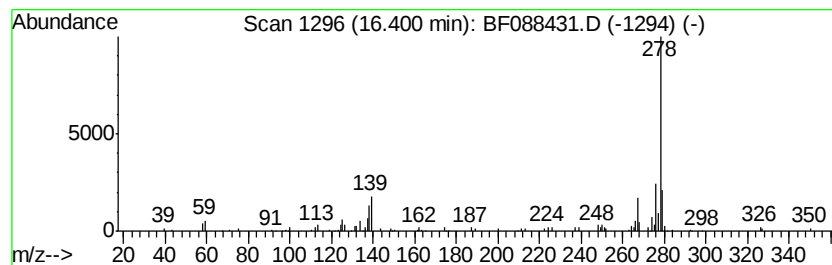
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TIC Integration Parameters: LSCINT.P

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Peak Number 15 Picene Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.40 | 5.67 ng | 130388 | Perylene-d12     | 15.03 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Picene                |              | 278 | C22H14  | 000213-46-7 | 97   |
| 2       | Dibenz[a,h]anthracene |              | 278 | C22H14  | 000053-70-3 | 96   |
| 3       | Benzo[b]triphenylene  |              | 278 | C22H14  | 000215-58-7 | 96   |
| 4       | Benzo[b]chrysene      |              | 278 | C22H14  | 000214-17-5 | 95   |
| 5       | Benzo[a]naphthacene   |              | 278 | C22H14  | 000226-88-0 | 89   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

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

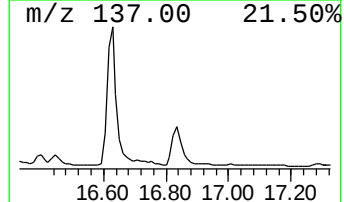
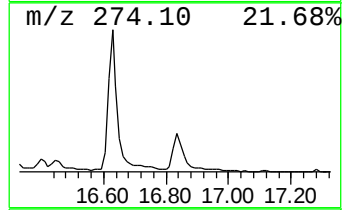
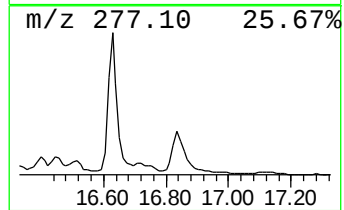
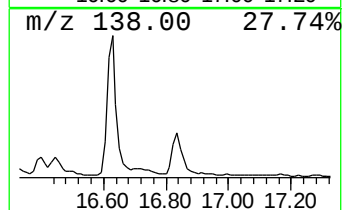
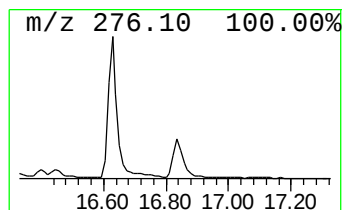
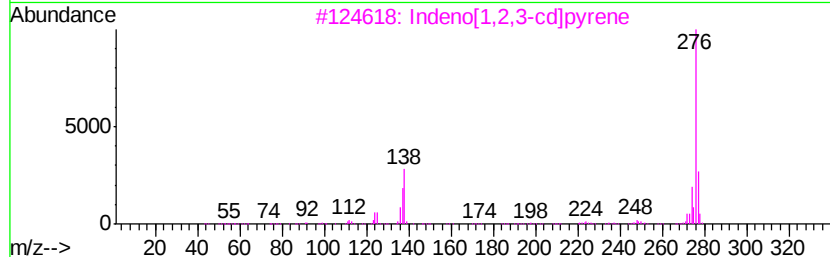
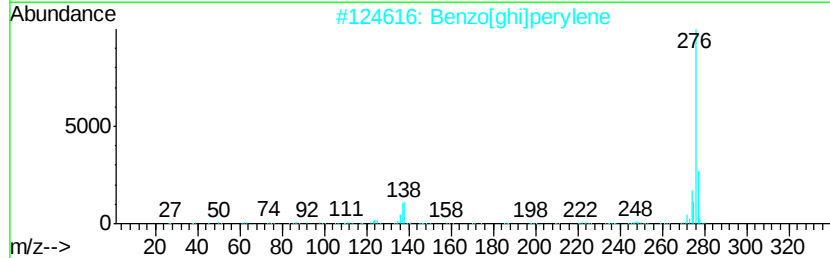
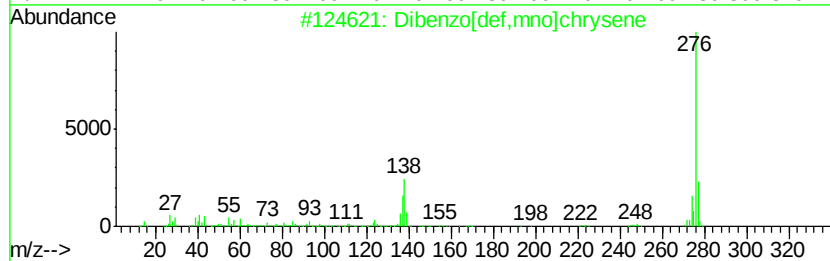
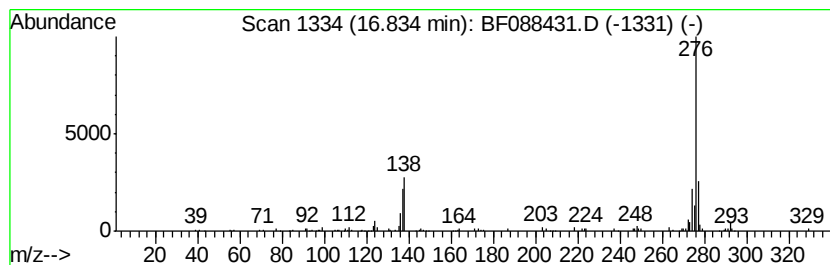
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TIC Integration Parameters: LSCINT.P

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Peak Number 16 Dibenzo[def,mno]chrysene Concentration Rank 11

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 16.83 | 10.16 ng | 233665 | Perylene-d12     | 15.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Dibenzo[def,mno]chrysene            | 276 | C22H12   | 000191-26-4 | 96   |
| 2    |    | Benzo[ghi]perylene                  | 276 | C22H12   | 000191-24-2 | 94   |
| 3    |    | Indeno[1,2,3-cd]pyrene              | 276 | C22H12   | 000193-39-5 | 94   |
| 4    |    | Indeno[1,2,3-cd]fluoranthene        | 276 | C22H12   | 000193-43-1 | 83   |
| 5    |    | 1-Naphthalenecarboxylic acid, 2-... | 276 | C18H12O3 | 038119-11-8 | 43   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

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

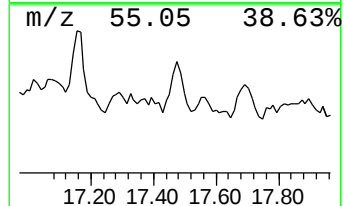
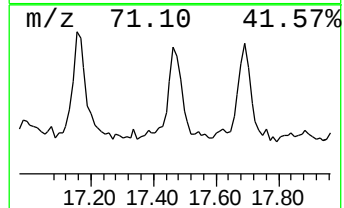
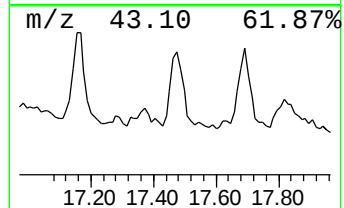
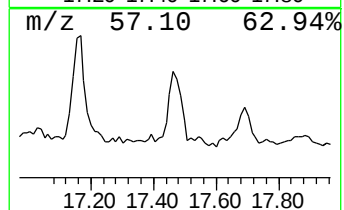
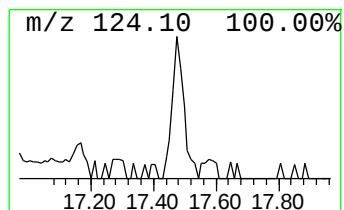
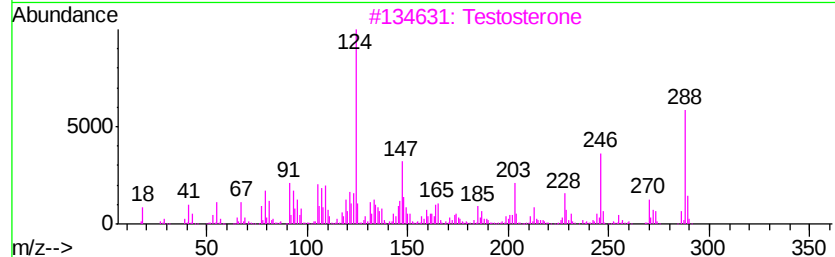
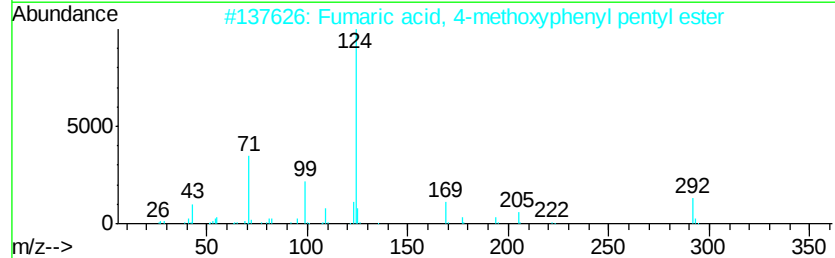
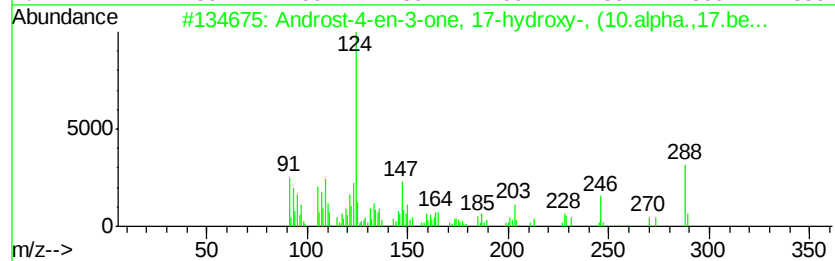
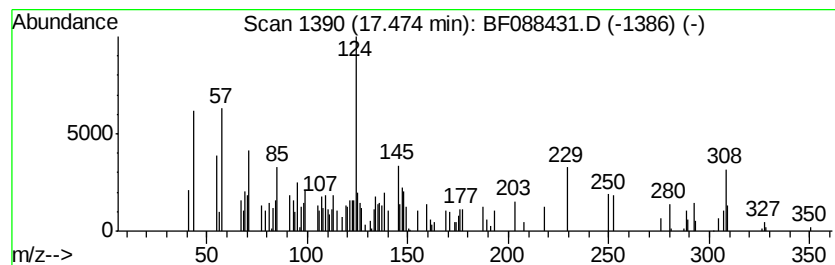
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TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown17.47 Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.47 | 5.71 ng | 131381 | Perylene-d12     | 15.03 |

| Hit# | of | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|------|----|-------------------------------------|-----|--------------|--------------|------|
| 1    | 5  | Androst-4-en-3-one, 17-hydroxy-,... | 288 | C19H28O2     | 000604-39-7  | 38   |
| 2    |    | Fumaric acid, 4-methoxyphenyl pe... | 292 | C16H20O5     | 1000344-74-2 | 38   |
| 3    |    | Testosterone                        | 288 | C19H28O2     | 000058-22-0  | 35   |
| 4    |    | Benzenethiosulfonic acid, 4-amin... | 280 | C12H12N2O2S2 | 001146-45-8  | 35   |
| 5    |    | Succinic acid, isobutyl 4-methox... | 280 | C15H20O5     | 1000325-79-3 | 35   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

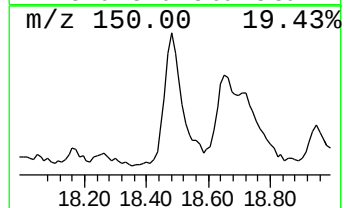
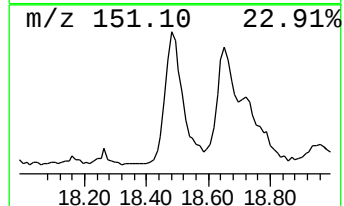
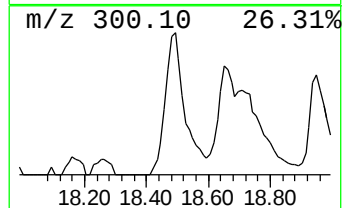
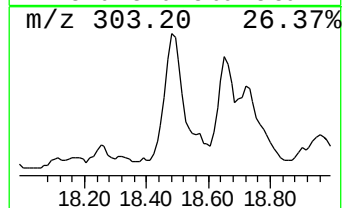
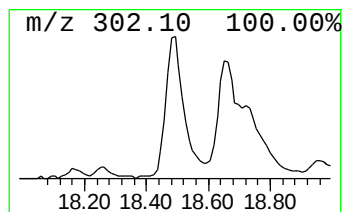
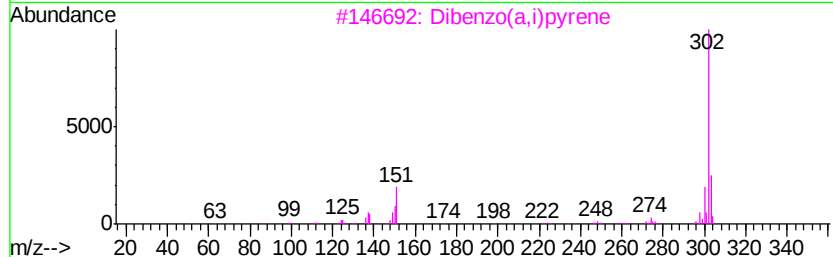
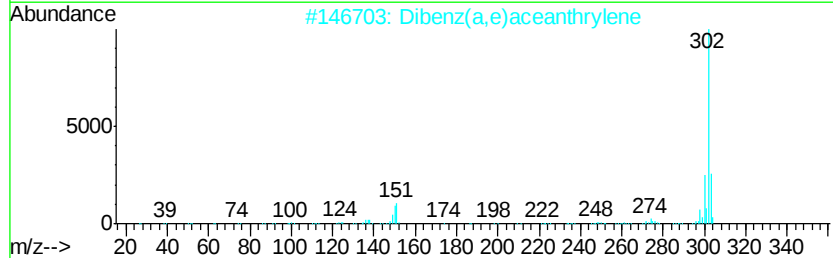
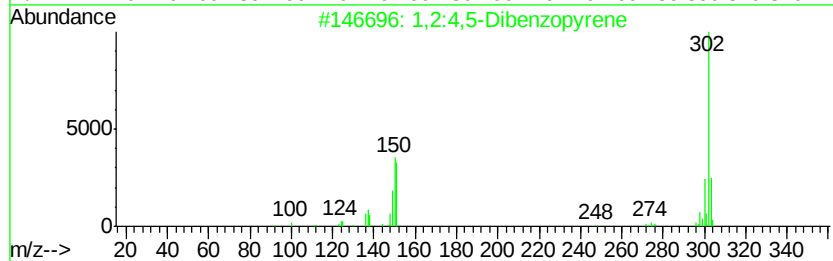
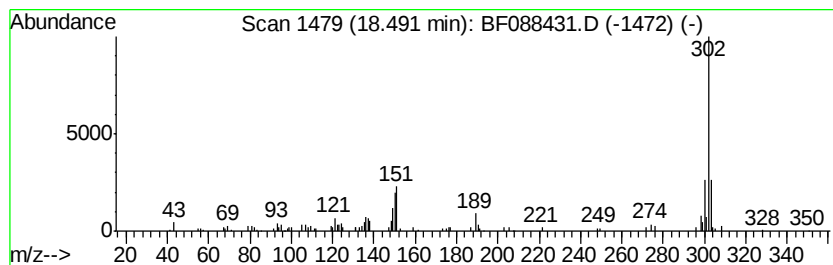
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 18 1,2:4,5-Dibenzopyrene Concentration Rank 8

| R.T.      | EstConc                  | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------|--------|------------------|-------------|------|
| 18.49     | 13.57 ng                 | 312284 | Perylene-d12     | 15.03       |      |
| Hit# of 5 | Tentative ID             | MW     | MolForm          | CAS#        | Qual |
| 1         | 1,2:4,5-Dibenzopvrene    | 302    | C24H14           | 000192-65-4 | 90   |
| 2         | Dibenz(a,e)aceanthrylene | 302    | C24H14           | 005385-75-1 | 90   |
| 3         | Dibenzo(a,i)pvrene       | 302    | C24H14           | 000189-55-9 | 86   |
| 4         | 1,2,9,10-Dibenzopvrene   | 302    | C24H14           | 000191-30-0 | 86   |
| 5         | 3,4:8,9-Dibenzopyrene    | 302    | C24H14           | 000189-64-0 | 76   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062616\  
Data File : BF088431.D  
Acq On : 26 Jun 2016 21:22  
Operator : UM/SJ  
Sample : H3663-05 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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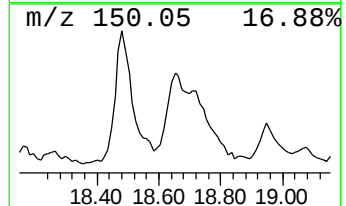
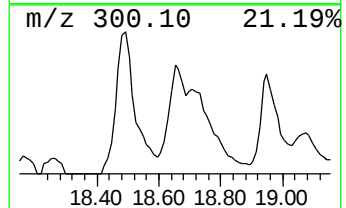
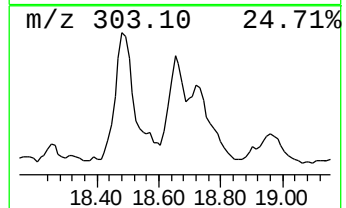
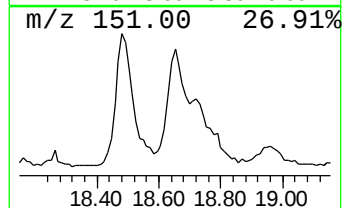
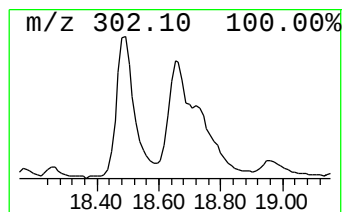
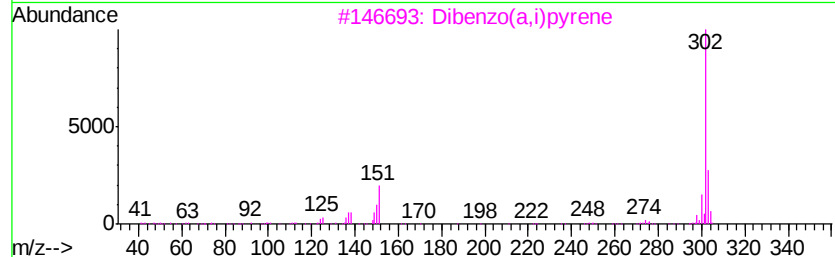
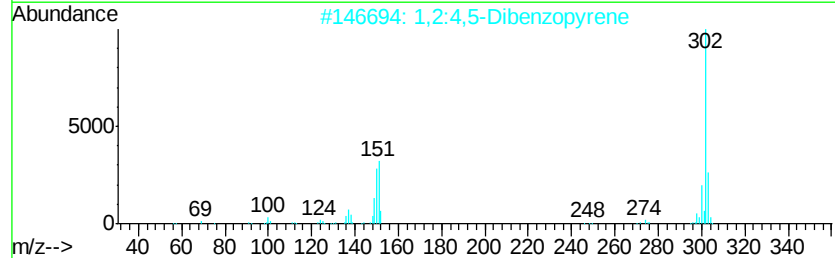
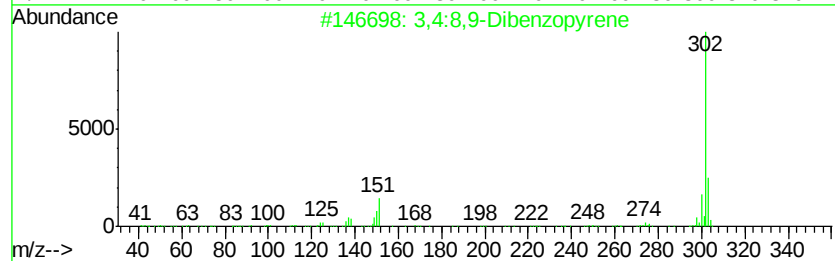
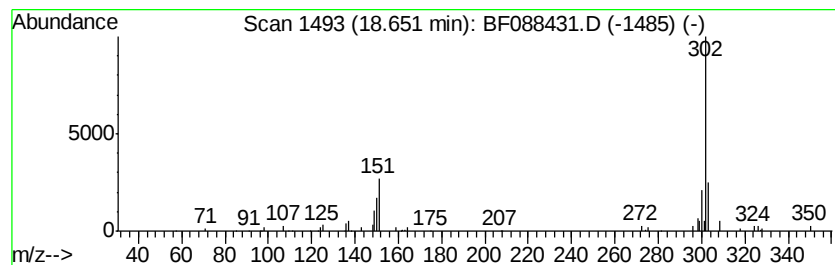
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 3,4:8,9-Dibenzopyrene Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.65 | 7.07 ng | 162645 | Perylene-d12     | 15.03 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | 3,4:8,9-Dibenzopyrene    | 302 | C24H14  | 000189-64-0 | 91   |
| 2    |    | 1,2:4,5-Dibenzopyrene    | 302 | C24H14  | 000192-65-4 | 87   |
| 3    |    | Dibenzo(a,i)pyrene       | 302 | C24H14  | 000189-55-9 | 87   |
| 4    |    | Dibenz(a,e)aceanthrylene | 302 | C24H14  | 005385-75-1 | 76   |
| 5    |    | 1,2,9,10-Dibenzopyrene   | 302 | C24H14  | 000191-30-0 | 62   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062616\  
 Data File : BF088431.D  
 Acq On : 26 Jun 2016 21:22  
 Operator : UM/SJ  
 Sample : H3663-05 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-3

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 4.65  | 11.3    | ng    | 246413   | 1                     | 6.55  | 437770  | 20.0 |
| unknown6.32          | 6.32  | 51.0    | ng    | 1116280  | 1                     | 6.55  | 437770  | 20.0 |
| Behenic alcohol      | 14.17 | 9.3     | ng    | 775203   | 5                     | 13.68 | 1658220 | 20.0 |
| 5,12-Naphthacened... | 14.39 | 7.8     | ng    | 179341   | 6                     | 15.03 | 460183  | 20.0 |
| Imidazole, 2-iodo... | 14.54 | 6.5     | ng    | 149925   | 6                     | 15.03 | 460183  | 20.0 |
| Oxirane, hexadecyl-  | 14.58 | 22.6    | ng    | 520731   | 6                     | 15.03 | 460183  | 20.0 |
| 11-Tetradecyn-1-o... | 15.21 | 11.4    | ng    | 262828   | 6                     | 15.03 | 460183  | 20.0 |
| Nonadecane           | 15.41 | 19.7    | ng    | 452333   | 6                     | 15.03 | 460183  | 20.0 |
| Boroxin, ethyldip... | 15.50 | 5.7     | ng    | 131570   | 6                     | 15.03 | 460183  | 20.0 |
| Pyrene, 1-phenyl-    | 16.21 | 6.7     | ng    | 153940   | 6                     | 15.03 | 460183  | 20.0 |
| Picene               | 16.40 | 5.7     | ng    | 130388   | 6                     | 15.03 | 460183  | 20.0 |
| Dibenzo[def,mno]c... | 16.83 | 10.2    | ng    | 233665   | 6                     | 15.03 | 460183  | 20.0 |
| unknown17.47         | 17.47 | 5.7     | ng    | 131381   | 6                     | 15.03 | 460183  | 20.0 |
| 1,2:4,5-Dibenzopy... | 18.49 | 13.6    | ng    | 312284   | 6                     | 15.03 | 460183  | 20.0 |
| 3,4:8,9-Dibenzopy... | 18.65 | 7.1     | ng    | 162645   | 6                     | 15.03 | 460183  | 20.0 |