

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
 Data File : BF121352.D  
 Acq On : 20 Aug 2020 17:45  
 Operator : JU/CG  
 Sample : L3689-11 2X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081920.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         | 5.292       | 542           | 545         | 554          | rVB      | 1187819        | 1166918       | 39.15%          | 2.280%        |
| 2         | 6.216       | 700           | 702         | 705          | rBV2     | 51107          | 51930         | 1.74%           | 0.101%        |
| 3         | 6.334       | 718           | 722         | 729          | rBV      | 1208920        | 1236986       | 41.50%          | 2.416%        |
| 4         | 6.387       | 729           | 731         | 734          | rVB      | 317880         | 280097        | 9.40%           | 0.547%        |
| 5         | 6.528       | 750           | 755         | 761          | rVB4     | 105798         | 139121        | 4.67%           | 0.272%        |
| 6         | 6.692       | 779           | 783         | 785          | rBV      | 1055956        | 835852        | 28.04%          | 1.633%        |
| 7         | 6.751       | 790           | 793         | 795          | rBV3     | 52456          | 64700         | 2.17%           | 0.126%        |
| 8         | 6.769       | 795           | 796         | 801          | rVV2     | 56449          | 67244         | 2.26%           | 0.131%        |
| 9         | 6.816       | 801           | 804         | 806          | rVV2     | 59290          | 70717         | 2.37%           | 0.138%        |
| 10        | 6.839       | 806           | 808         | 812          | rVV3     | 81019          | 99281         | 3.33%           | 0.194%        |
| 11        | 6.875       | 812           | 814         | 817          | rVB2     | 56193          | 47950         | 1.61%           | 0.094%        |
| 12        | 6.963       | 824           | 829         | 834          | rVB5     | 95123          | 165599        | 5.56%           | 0.323%        |
| 13        | 7.004       | 834           | 836         | 840          | rBV3     | 63871          | 68945         | 2.31%           | 0.135%        |
| 14        | 7.039       | 840           | 842         | 845          | rBV2     | 47565          | 48082         | 1.61%           | 0.094%        |
| 15        | 7.086       | 847           | 850         | 852          | rVV2     | 151788         | 122564        | 4.11%           | 0.239%        |
| 16        | 7.122       | 852           | 856         | 860          | rVB4     | 42093          | 76272         | 2.56%           | 0.149%        |
| 17        | 7.234       | 868           | 875         | 876          | rBV3     | 143190         | 214678        | 7.20%           | 0.419%        |
| 18        | 7.257       | 876           | 879         | 884          | rVV      | 976954         | 864915        | 29.02%          | 1.690%        |
| 19        | 7.292       | 884           | 885         | 888          | rVB2     | 86132          | 69258         | 2.32%           | 0.135%        |
| 20        | 7.339       | 888           | 893         | 897          | rBV5     | 132173         | 185893        | 6.24%           | 0.363%        |
| 21        | 7.386       | 897           | 901         | 902          | rBV3     | 83186          | 99915         | 3.35%           | 0.195%        |
| 22        | 7.410       | 903           | 905         | 909          | rVB3     | 99266          | 89576         | 3.00%           | 0.175%        |
| 23        | 7.451       | 909           | 912         | 913          | rBV2     | 69574          | 77662         | 2.61%           | 0.152%        |
| 24        | 7.481       | 913           | 917         | 918          | rBV2     | 96090          | 93731         | 3.14%           | 0.183%        |
| 25        | 7.498       | 918           | 920         | 924          | rVB3     | 223372         | 194607        | 6.53%           | 0.380%        |
| 26        | 7.586       | 928           | 935         | 936          | rBV4     | 88448          | 134217        | 4.50%           | 0.262%        |
| 27        | 7.616       | 938           | 940         | 944          | rVB3     | 233180         | 265009        | 8.89%           | 0.518%        |
| 28        | 7.663       | 944           | 948         | 951          | rBV3     | 168164         | 211013        | 7.08%           | 0.412%        |
| 29        | 7.698       | 951           | 954         | 956          | rBV2     | 123129         | 102867        | 3.45%           | 0.201%        |
| 30        | 7.739       | 958           | 961         | 966          | rVB3     | 106022         | 140594        | 4.72%           | 0.275%        |
| 31        | 7.781       | 966           | 968         | 969          | rBV      | 64936          | 49494         | 1.66%           | 0.097%        |
| 32        | 7.798       | 969           | 971         | 976          | rVB3     | 150303         | 165540        | 5.55%           | 0.323%        |
| 33        | 7.851       | 976           | 980         | 984          | rBV3     | 152199         | 250533        | 8.40%           | 0.489%        |
| 34        | 7.881       | 984           | 985         | 988          | rVB3     | 75944          | 53147         | 1.78%           | 0.104%        |

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 TP-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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081920.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |       |      |      |      |      |         |         |        |        |
|----|-------|------|------|------|------|---------|---------|--------|--------|
| 35 | 7.916 | 989  | 991  | 993  | rBV2 | 111281  | 107569  | 3.61%  | 0.210% |
| 36 | 7.975 | 996  | 1001 | 1004 | rBV  | 1253518 | 1375437 | 46.14% | 2.687% |
| 37 | 8.028 | 1008 | 1010 | 1011 | rBV  | 196426  | 144926  | 4.86%  | 0.283% |
| 38 | 8.045 | 1011 | 1013 | 1016 | rVB  | 795920  | 559604  | 18.77% | 1.093% |
| 39 | 8.069 | 1016 | 1017 | 1020 | rVB2 | 185454  | 134959  | 4.53%  | 0.264% |
| 40 | 8.098 | 1020 | 1022 | 1025 | rVB2 | 187985  | 168613  | 5.66%  | 0.329% |
| 41 | 8.145 | 1026 | 1030 | 1034 | rBV5 | 161835  | 300551  | 10.08% | 0.587% |
| 42 | 8.186 | 1034 | 1037 | 1039 | rVB2 | 297714  | 268436  | 9.01%  | 0.524% |
| 43 | 8.210 | 1039 | 1041 | 1044 | rBV3 | 71886   | 79307   | 2.66%  | 0.155% |
| 44 | 8.239 | 1044 | 1046 | 1047 | rBV2 | 77865   | 60059   | 2.01%  | 0.117% |
| 45 | 8.269 | 1047 | 1051 | 1054 | rBV4 | 374560  | 616385  | 20.68% | 1.204% |
| 46 | 8.298 | 1054 | 1056 | 1059 | rVB3 | 158620  | 140789  | 4.72%  | 0.275% |
| 47 | 8.328 | 1059 | 1061 | 1064 | rBV4 | 240261  | 204174  | 6.85%  | 0.399% |
| 48 | 8.363 | 1064 | 1067 | 1070 | rVB4 | 340272  | 349221  | 11.72% | 0.682% |
| 49 | 8.404 | 1070 | 1074 | 1079 | rBV2 | 1209756 | 1596709 | 53.56% | 3.119% |
| 50 | 8.439 | 1079 | 1080 | 1083 | rVB3 | 322935  | 273486  | 9.17%  | 0.534% |
| 51 | 8.480 | 1083 | 1087 | 1090 | rBV6 | 255874  | 342187  | 11.48% | 0.668% |
| 52 | 8.522 | 1090 | 1094 | 1096 | rBV4 | 340558  | 371232  | 12.45% | 0.725% |
| 53 | 8.575 | 1099 | 1103 | 1105 | rBV4 | 321194  | 421520  | 14.14% | 0.823% |
| 54 | 8.669 | 1116 | 1119 | 1122 | rVB3 | 525730  | 557850  | 18.71% | 1.090% |
| 55 | 8.728 | 1126 | 1129 | 1131 | rBV3 | 157441  | 201919  | 6.77%  | 0.394% |
| 56 | 8.786 | 1137 | 1139 | 1143 | rVB2 | 298823  | 251779  | 8.45%  | 0.492% |
| 57 | 8.857 | 1149 | 1151 | 1153 | rBV2 | 423119  | 391735  | 13.14% | 0.765% |
| 58 | 8.886 | 1153 | 1156 | 1161 | rVB5 | 395732  | 594476  | 19.94% | 1.161% |
| 59 | 9.004 | 1173 | 1176 | 1179 | rBV  | 1626982 | 1428162 | 47.91% | 2.790% |
| 60 | 9.051 | 1181 | 1184 | 1187 | rVB  | 1520863 | 1253101 | 42.04% | 2.448% |
| 61 | 9.139 | 1195 | 1199 | 1203 | rBV4 | 545381  | 982195  | 32.95% | 1.919% |
| 62 | 9.186 | 1203 | 1207 | 1208 | rBV3 | 369151  | 496023  | 16.64% | 0.969% |
| 63 | 9.257 | 1217 | 1219 | 1221 | rVB  | 293794  | 214553  | 7.20%  | 0.419% |
| 64 | 9.392 | 1239 | 1242 | 1244 | rBV3 | 635240  | 567012  | 19.02% | 1.108% |
| 65 | 9.416 | 1244 | 1246 | 1248 | rVB  | 476185  | 318535  | 10.69% | 0.622% |
| 66 | 9.439 | 1248 | 1250 | 1251 | rBV  | 791204  | 609340  | 20.44% | 1.190% |
| 67 | 9.463 | 1251 | 1254 | 1256 | rVB2 | 2029023 | 1789154 | 60.02% | 3.495% |
| 68 | 9.486 | 1256 | 1258 | 1260 | rBV3 | 210855  | 177954  | 5.97%  | 0.348% |
| 69 | 9.545 | 1266 | 1268 | 1270 | rBV3 | 274109  | 248721  | 8.34%  | 0.486% |
| 70 | 9.592 | 1274 | 1276 | 1282 | rBV5 | 398762  | 727598  | 24.41% | 1.421% |
| 71 | 9.639 | 1282 | 1284 | 1287 | rVB  | 831101  | 751793  | 25.22% | 1.469% |

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Integration Parameters: rteint.p  
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 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:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081920.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 9.675  | 1287 | 1290 | 1293 | rBV3 | 260245  | 409712  | 13.74%  | 0.800% |
| 73  | 9.710  | 1293 | 1296 | 1297 | rBV2 | 757565  | 654402  | 21.95%  | 1.278% |
| 74  | 9.733  | 1297 | 1300 | 1302 | rVB  | 1188391 | 1175282 | 39.43%  | 2.296% |
| 75  | 9.775  | 1305 | 1307 | 1309 | rVB2 | 286970  | 185186  | 6.21%   | 0.362% |
| 76  | 9.839  | 1315 | 1318 | 1322 | rVB2 | 575592  | 731374  | 24.54%  | 1.429% |
| 77  | 9.892  | 1322 | 1327 | 1331 | rBV6 | 370283  | 858368  | 28.80%  | 1.677% |
| 78  | 9.933  | 1331 | 1334 | 1337 | rVV  | 1004336 | 1000667 | 33.57%  | 1.955% |
| 79  | 9.975  | 1339 | 1341 | 1343 | rVV  | 458274  | 389334  | 13.06%  | 0.761% |
| 80  | 9.998  | 1343 | 1345 | 1351 | rVB5 | 887264  | 946572  | 31.75%  | 1.849% |
| 81  | 10.051 | 1351 | 1354 | 1357 | rBV  | 871921  | 997429  | 33.46%  | 1.948% |
| 82  | 10.139 | 1367 | 1369 | 1371 | rBV  | 320119  | 260968  | 8.75%   | 0.510% |
| 83  | 10.192 | 1376 | 1378 | 1381 | rBV3 | 293882  | 347483  | 11.66%  | 0.679% |
| 84  | 10.275 | 1390 | 1392 | 1394 | rBV2 | 321588  | 276582  | 9.28%   | 0.540% |
| 85  | 10.392 | 1409 | 1412 | 1415 | rVB  | 1819742 | 1802509 | 60.47%  | 3.521% |
| 86  | 10.504 | 1429 | 1431 | 1432 | rBV  | 435908  | 330732  | 11.09%  | 0.646% |
| 87  | 10.522 | 1432 | 1434 | 1437 | rVB2 | 702836  | 578915  | 19.42%  | 1.131% |
| 88  | 10.663 | 1453 | 1458 | 1463 | rBV2 | 2266186 | 2980919 | 100.00% | 5.823% |
| 89  | 10.857 | 1489 | 1491 | 1497 | rVB6 | 695018  | 900559  | 30.21%  | 1.759% |
| 90  | 10.980 | 1507 | 1512 | 1517 | rBV6 | 558209  | 850258  | 28.52%  | 1.661% |
| 91  | 11.122 | 1533 | 1536 | 1542 | rVB  | 1765421 | 2139558 | 71.78%  | 4.180% |
| 92  | 11.216 | 1549 | 1552 | 1554 | rBV  | 886506  | 859998  | 28.85%  | 1.680% |
| 93  | 11.469 | 1593 | 1595 | 1599 | rVB  | 568744  | 563491  | 18.90%  | 1.101% |
| 94  | 12.198 | 1716 | 1719 | 1721 | rBV2 | 504892  | 555253  | 18.63%  | 1.085% |
| 95  | 12.269 | 1729 | 1731 | 1734 | rBV  | 541638  | 481607  | 16.16%  | 0.941% |
| 96  | 12.468 | 1763 | 1765 | 1768 | rVB2 | 492377  | 383212  | 12.86%  | 0.749% |
| 97  | 12.716 | 1805 | 1807 | 1810 | rVB  | 275757  | 242346  | 8.13%   | 0.473% |
| 98  | 12.798 | 1818 | 1821 | 1830 | rVB  | 1438327 | 1566970 | 52.57%  | 3.061% |
| 99  | 13.851 | 1997 | 2000 | 2003 | rVB  | 889025  | 794442  | 26.65%  | 1.552% |
| 100 | 15.268 | 2238 | 2241 | 2249 | rVB  | 726012  | 1045618 | 35.08%  | 2.043% |

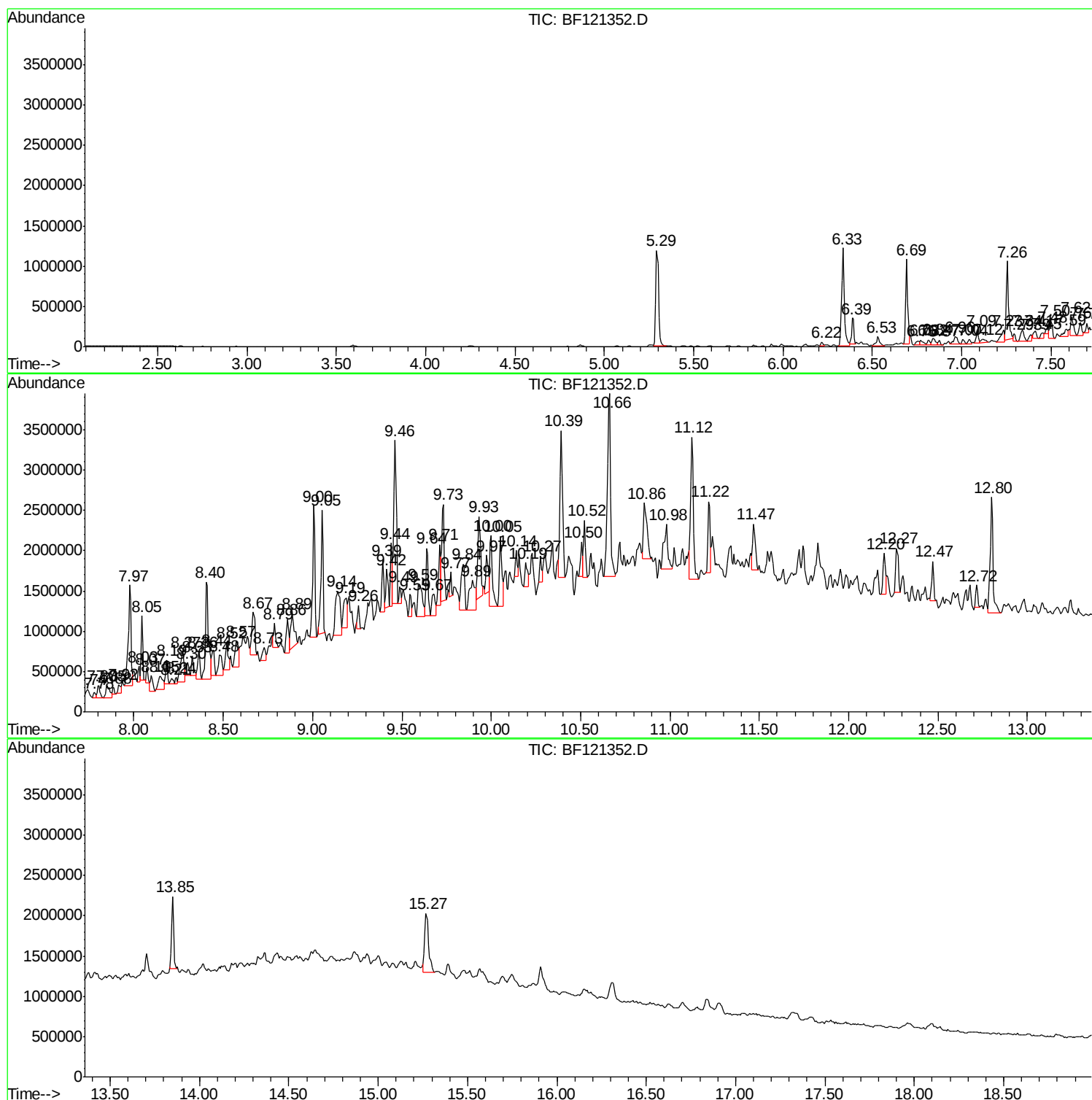
Sum of corrected areas: 51191717

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Instrument :  
BNA\_F  
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TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

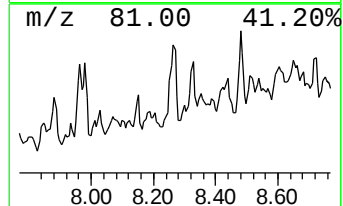
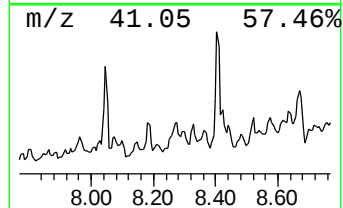
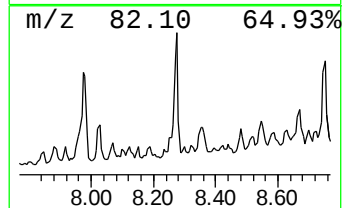
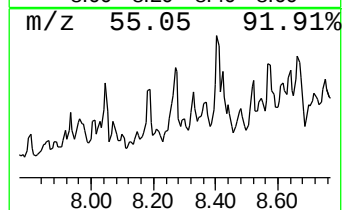
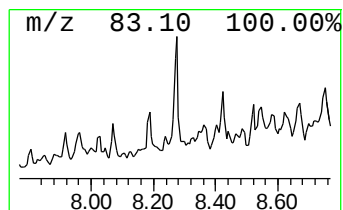
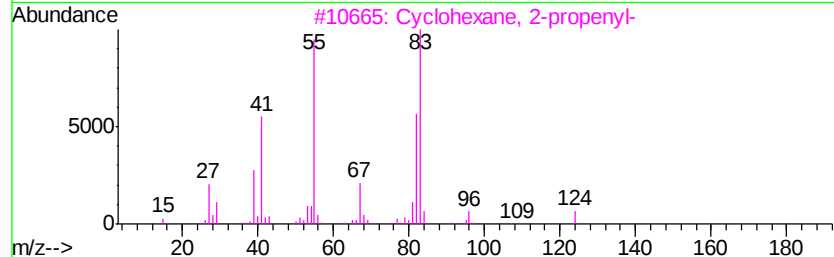
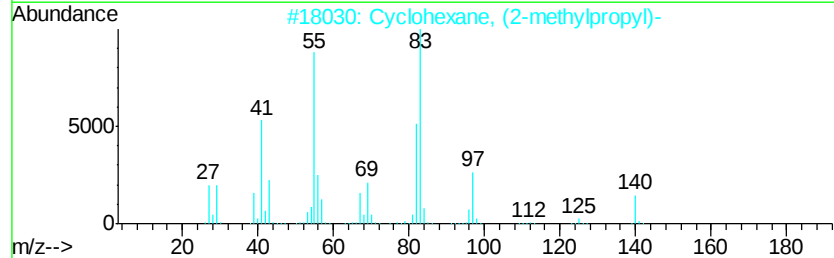
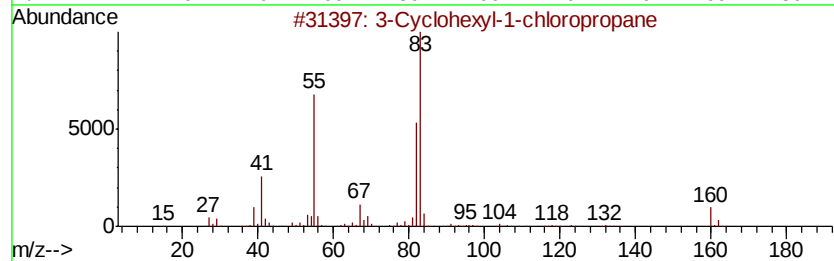
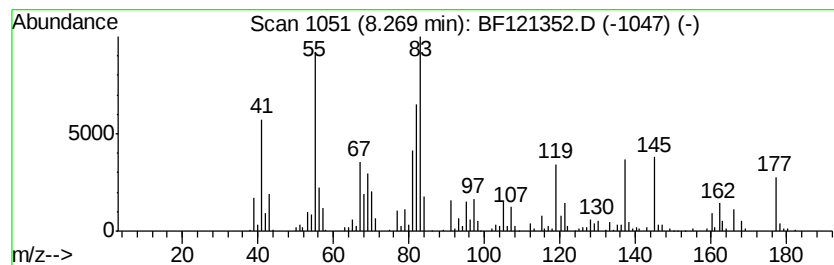
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown8.27 Concentration Rank 20

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.27 | 8.96 ng | 616385 | Naphthalene-d8   | 7.97 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 3-Cyclohexyl-1-chloropropane        | 160 | C9H17Cl | 001124-62-5 | 46   |
| 2    |    | Cyclohexane, (2-methylpropyl)-      | 140 | C10H20  | 001678-98-4 | 38   |
| 3    |    | Cyclohexane, 2-propenyl-            | 124 | C9H16   | 002114-42-3 | 38   |
| 4    |    | Cyclopentane, 1-methyl-2-(2-prop... | 124 | C9H16   | 050746-53-7 | 38   |
| 5    |    | Heptylcyclohexane                   | 182 | C13H26  | 005617-41-4 | 38   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

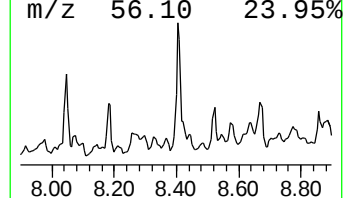
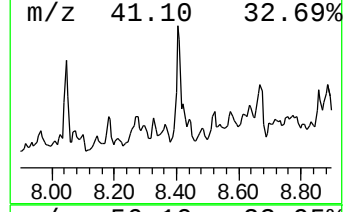
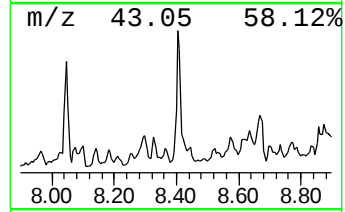
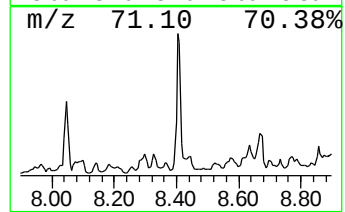
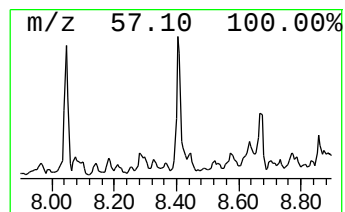
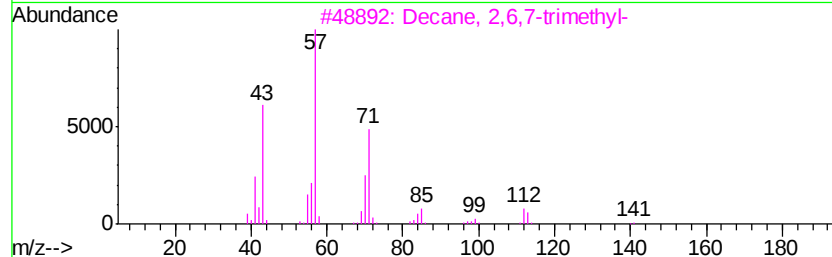
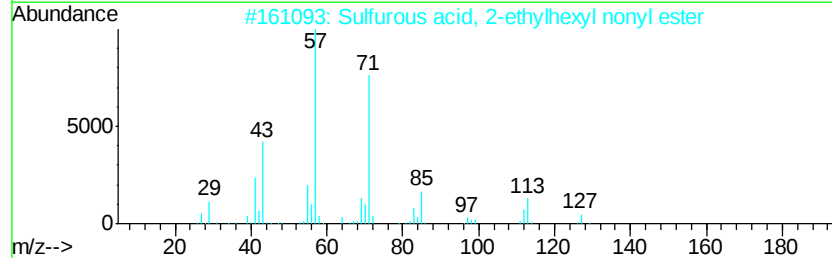
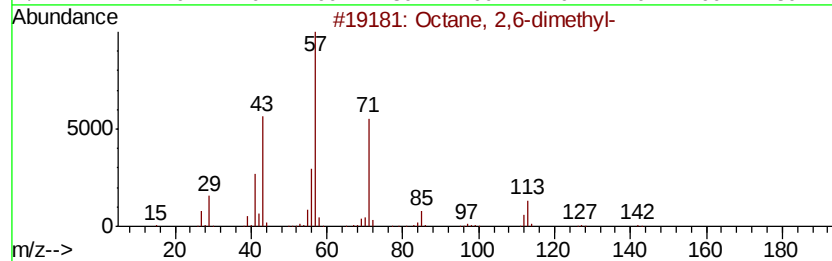
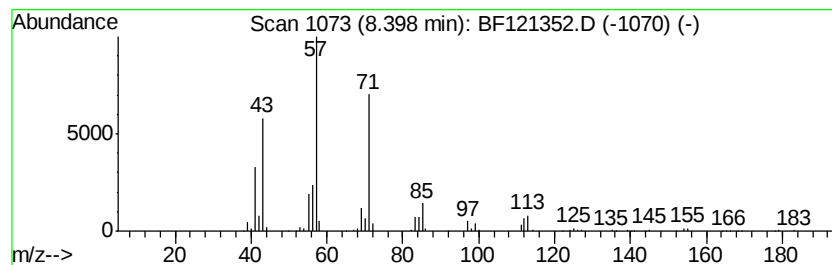
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Octane, 2,6-dimethyl- Concentration Rank 4

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 8.40 | 23.22 ng | 1596710 | Naphthalene-d8   | 7.97 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Octane, 2,6-dimethyl-               | 142 | C10H22    | 002051-30-1  | 90   |
| 2    |    | Sulfurous acid, 2-ethylhexyl non... | 320 | C17H36O3S | 1000309-19-2 | 78   |
| 3    |    | Decane, 2,6,7-trimethyl-            | 184 | C13H28    | 062108-25-2  | 64   |
| 4    |    | Sulfurous acid, 2-ethylhexyl pen... | 264 | C13H28O3S | 1000309-18-9 | 64   |
| 5    |    | Undecane, 6,6-dimethyl-             | 184 | C13H28    | 017312-76-4  | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

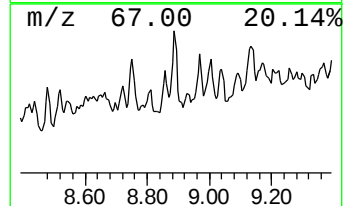
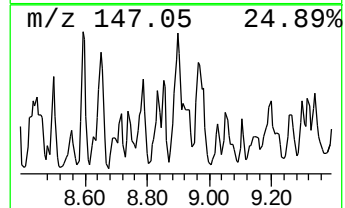
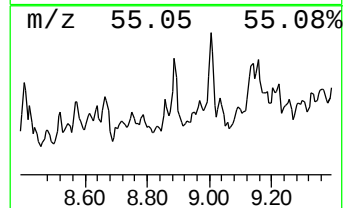
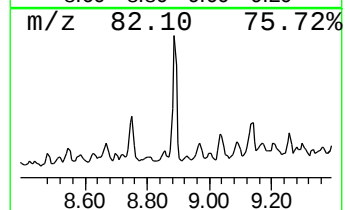
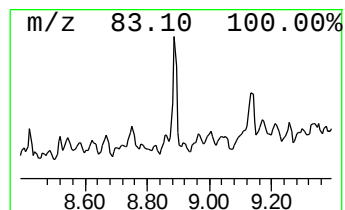
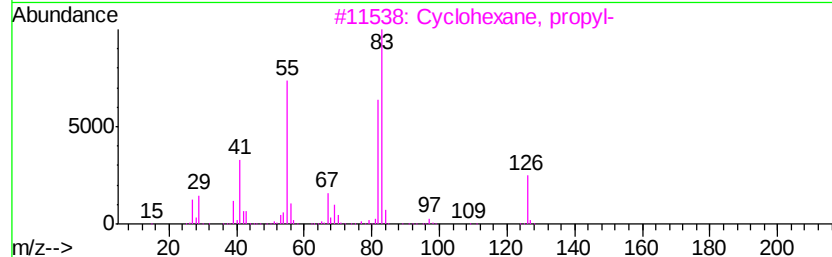
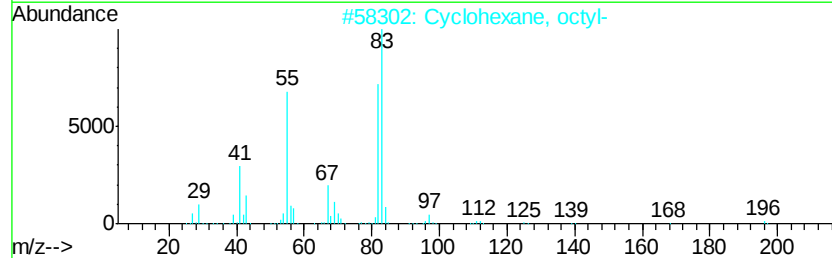
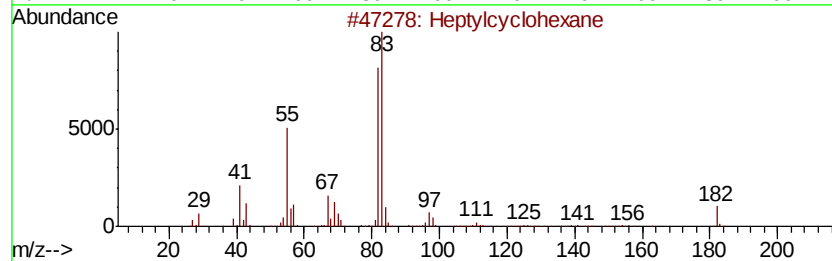
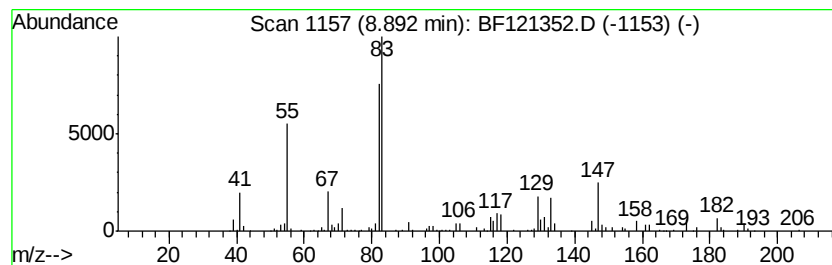
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TIC Integration Parameters: LSCINT.P

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Peak Number 3 Heptylcyclohexane Concentration Rank 18

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 8.89 | 10.12 ng | 594476 | Acenaphthene-d10 | 9.73 |

| Hit# of | 5 | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|---------|---|-----------------------|-----|---------|-------------|------|
| 1       |   | Heptylcyclohexane     | 182 | C13H26  | 005617-41-4 | 59   |
| 2       |   | Cyclohexane, octyl-   | 196 | C14H28  | 001795-15-9 | 53   |
| 3       |   | Cyclohexane, propyl-  | 126 | C9H18   | 001678-92-8 | 53   |
| 4       |   | Cyclohexane, decyl-   | 224 | C16H32  | 001795-16-0 | 53   |
| 5       |   | Cyclohexane, undecyl- | 238 | C17H34  | 054105-66-7 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

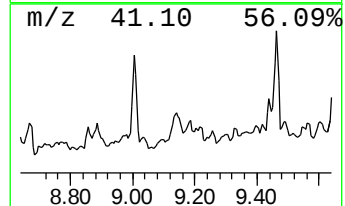
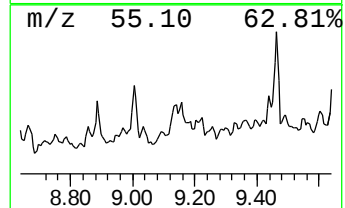
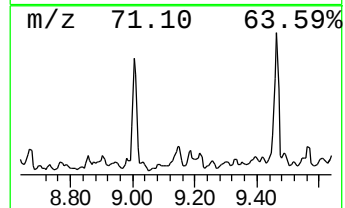
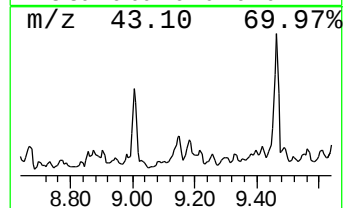
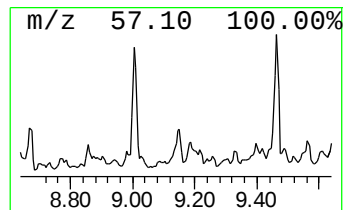
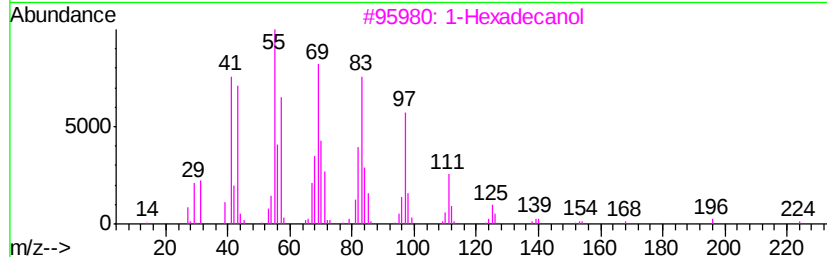
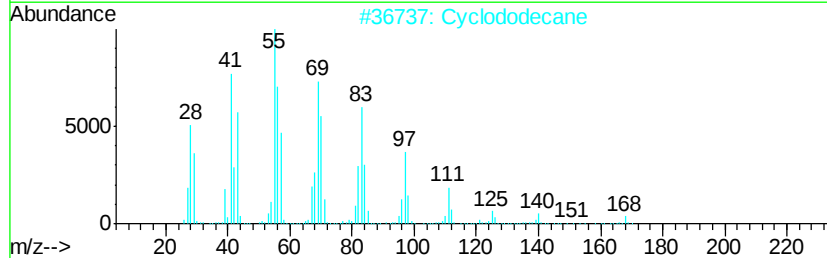
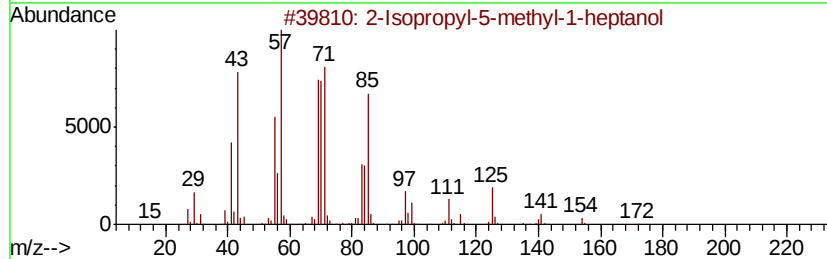
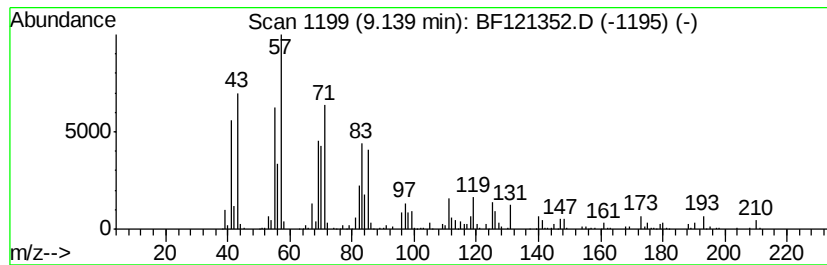
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 2-Isopropyl-5-methyl-1-hept... Concentration Rank 9

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.14 | 16.71 ng | 982195 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Isopropyl-5-methyl-1-heptanol | 172 | C11H24O | 091337-07-4 | 58   |
| 2    |    | Cyclododecane                   | 168 | C12H24  | 000294-62-2 | 38   |
| 3    |    | 1-Hexadecanol                   | 242 | C16H34O | 036653-82-4 | 30   |
| 4    |    | Hexadecane                      | 226 | C16H34  | 000544-76-3 | 30   |
| 5    |    | 1-Decene, 2,4-dimethyl-         | 168 | C12H24  | 055170-80-4 | 30   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

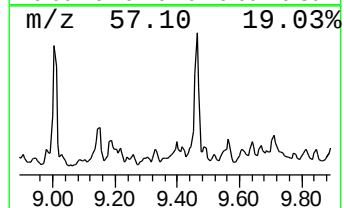
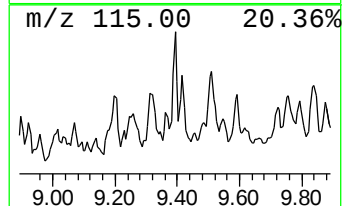
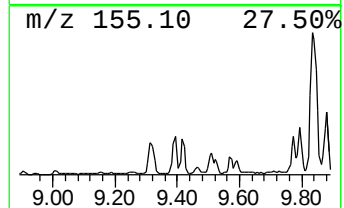
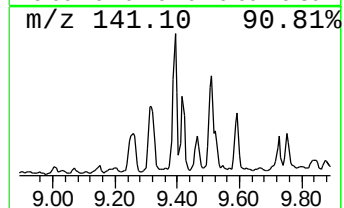
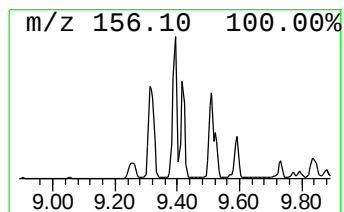
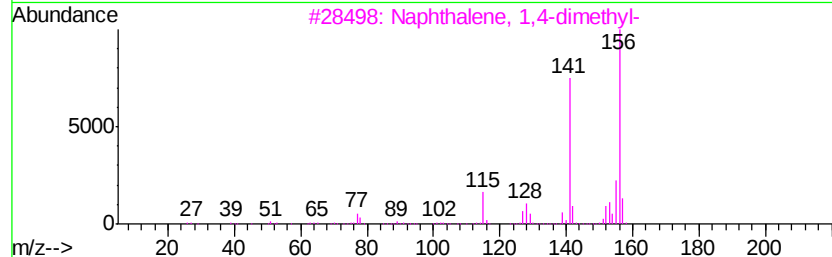
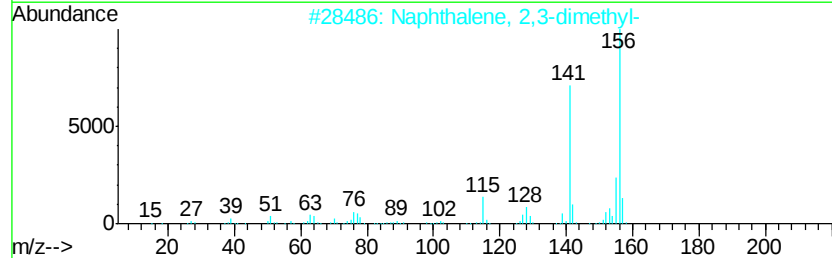
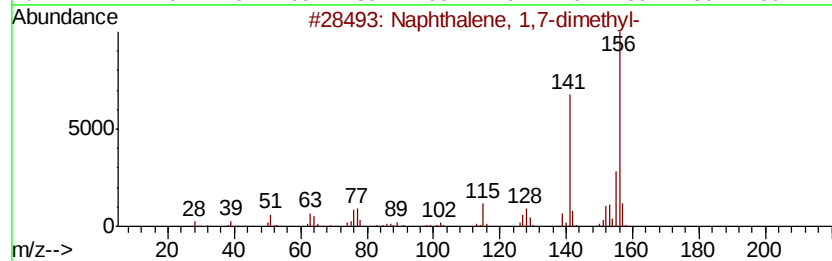
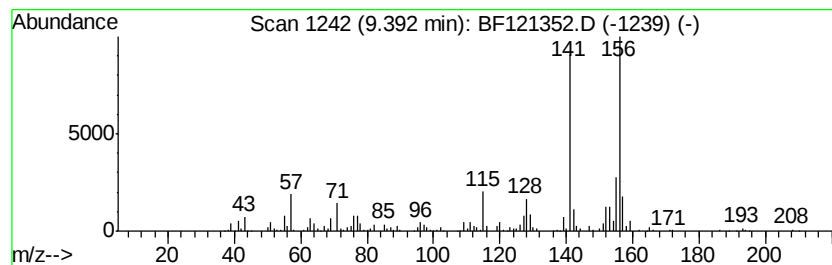
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Naphthalene, 1,7-dimethyl- Concentration Rank 19

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.39 | 9.65 ng | 567012 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 2    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 3    |    | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 97   |
| 4    |    | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |
| 5    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 95   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

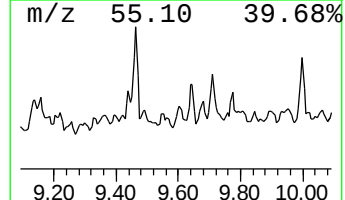
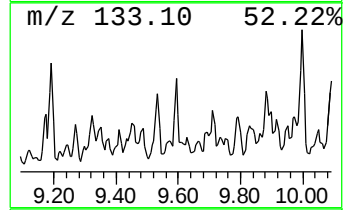
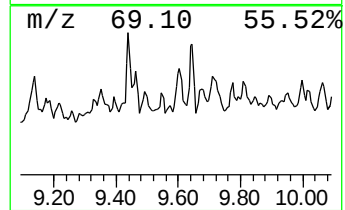
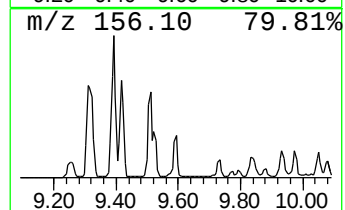
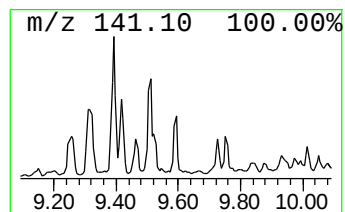
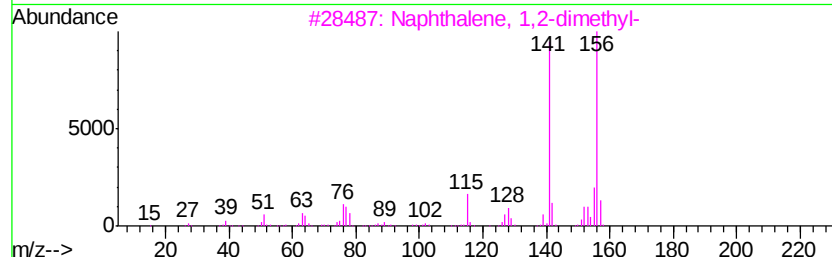
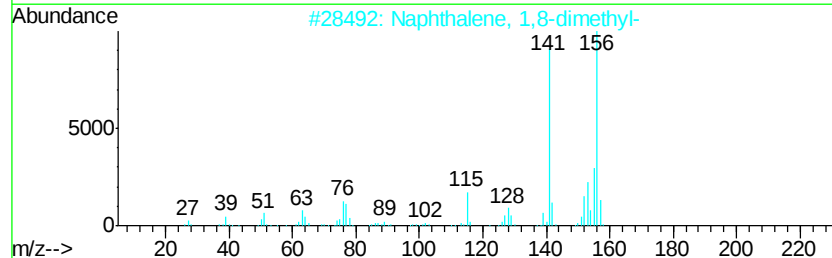
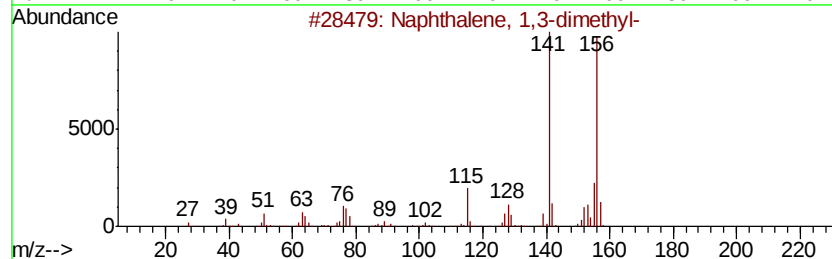
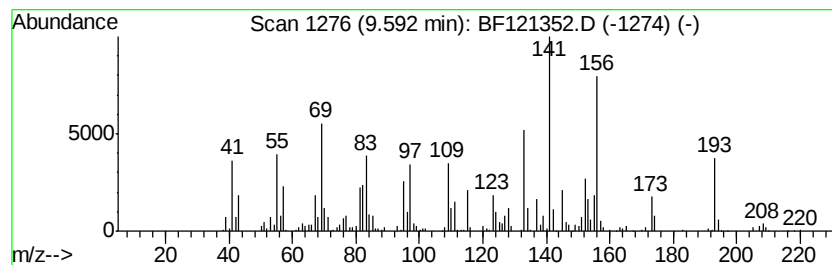
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Naphthalene, 1,3-dimethyl- Concentration Rank 16

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.59 | 12.38 ng | 727598 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 60   |
| 2    |    | Naphthalene, 1,8-dimethyl- | 156 | C12H12  | 000569-41-5 | 46   |
| 3    |    | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 46   |
| 4    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 46   |
| 5    |    | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 46   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

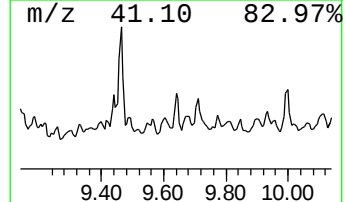
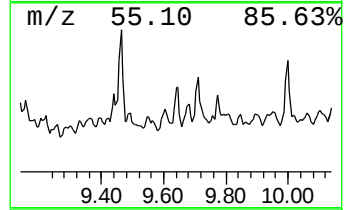
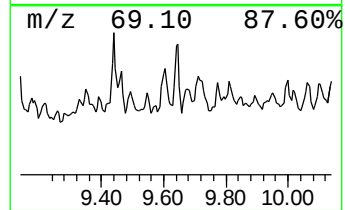
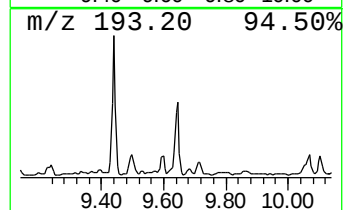
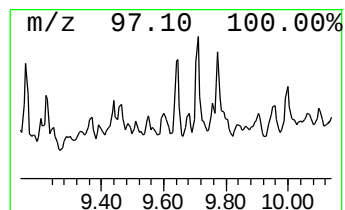
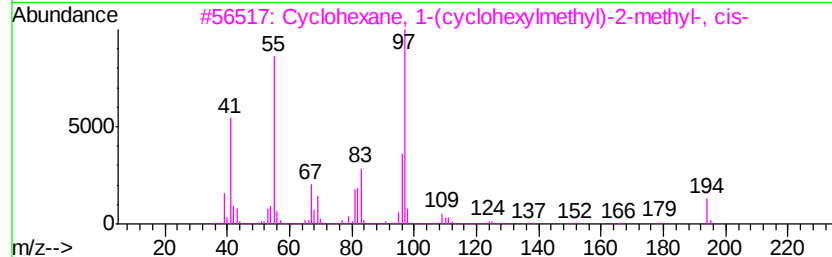
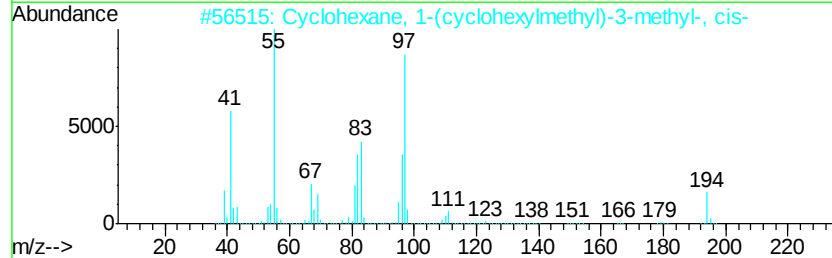
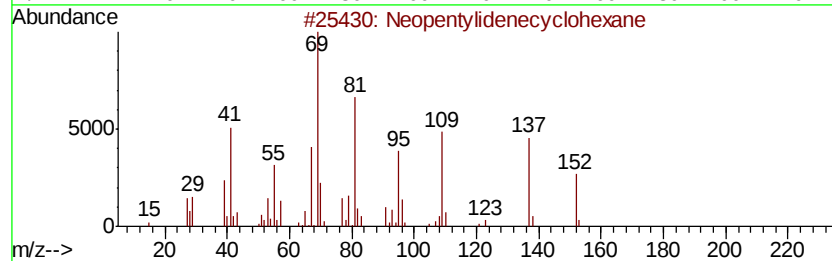
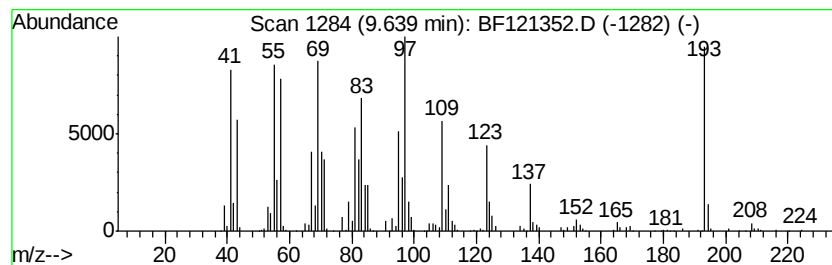
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 unknown9.64 Concentration Rank 14

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.64 | 12.79 ng | 751793 | Acenaphthene-d10 | 9.73 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Neopentylidenecyclohexane          | 152 | C11H20  | 039546-80-0 | 38   |
| 2    |    |   | Cyclohexane, 1-(cyclohexylmethyl)- | 194 | C14H26  | 054823-96-0 | 18   |
| 3    |    |   | Cyclohexane, 1-(cyclohexylmethyl)- | 194 | C14H26  | 054824-04-3 | 18   |
| 4    |    |   | 1-Undecene, 8-methyl-              | 168 | C12H24  | 074630-40-3 | 15   |
| 5    |    |   | 1,1'-Bicyclohexyl, 2-ethyl-, cis-  | 194 | C14H26  | 050991-12-3 | 15   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

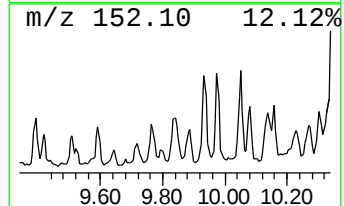
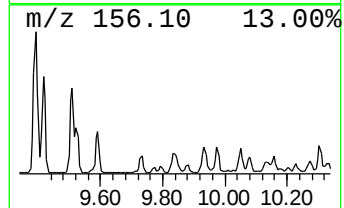
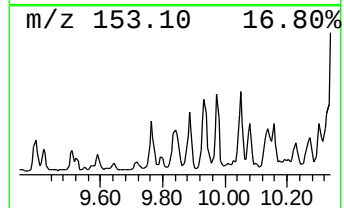
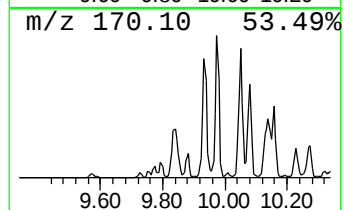
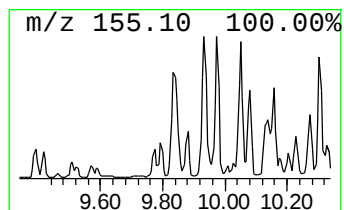
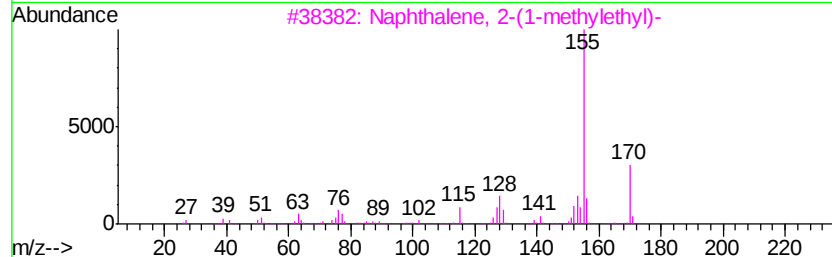
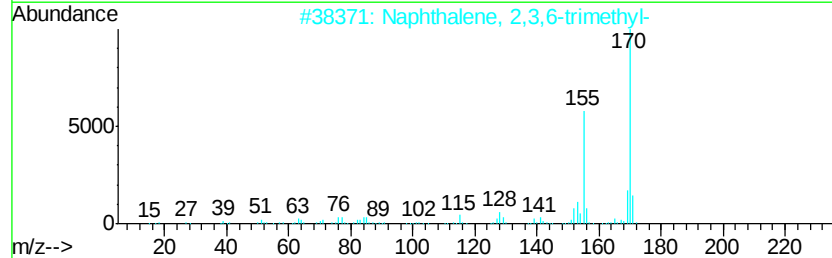
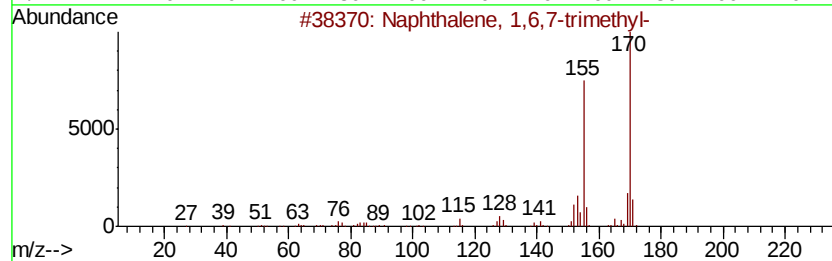
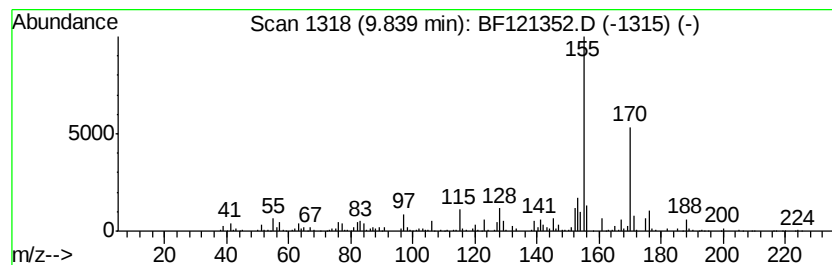
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Naphthalene, 1,6,7-trimethyl- Concentration Rank 15

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.84 | 12.45 ng | 731374 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,6,7-trimethyl-   | 170 | C13H14  | 002245-38-7 | 93   |
| 2    |    | Naphthalene, 2,3,6-trimethyl-   | 170 | C13H14  | 000829-26-5 | 93   |
| 3    |    | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14  | 002027-17-0 | 87   |
| 4    |    | Naphthalene, 1,4,6-trimethyl-   | 170 | C13H14  | 002131-42-2 | 83   |
| 5    |    | Naphthalene, 1,4,5-trimethyl-   | 170 | C13H14  | 002131-41-1 | 78   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

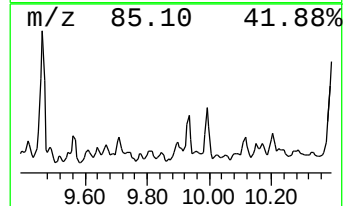
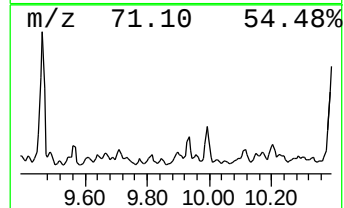
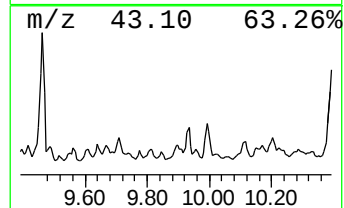
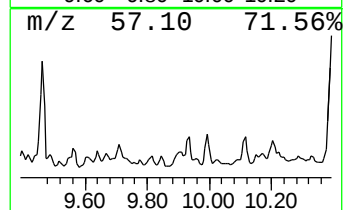
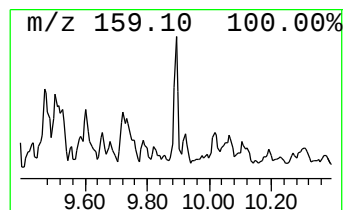
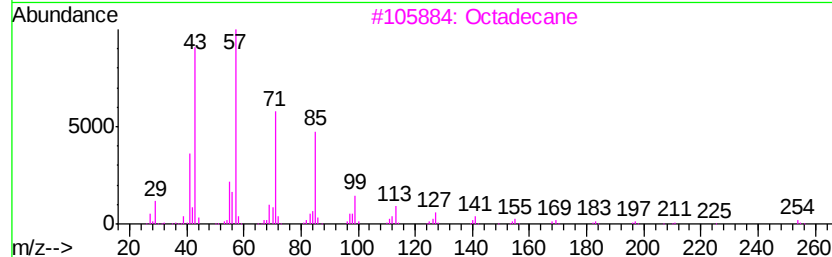
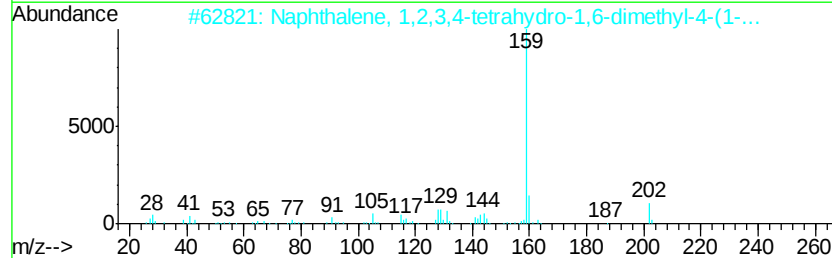
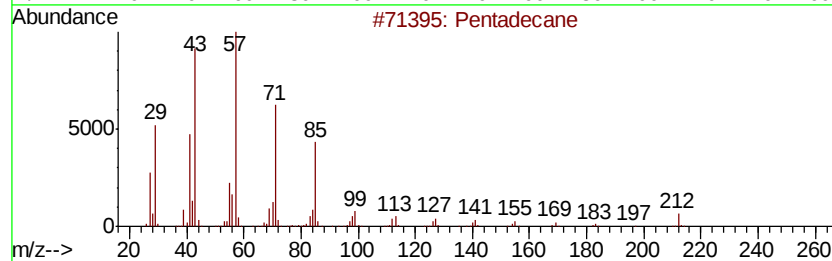
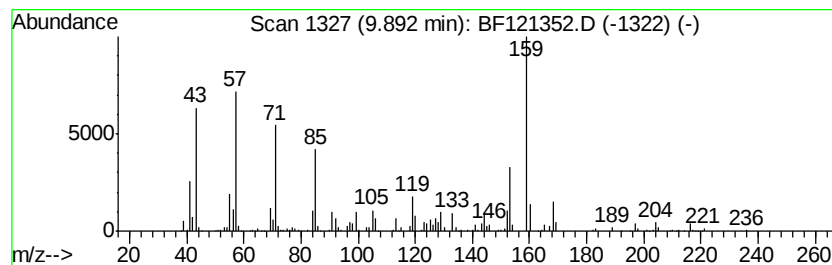
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 unknown9.89 Concentration Rank 11

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.89 | 14.61 ng | 858368 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane                         | 212 | C15H32  | 000629-62-9 | 38   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 202 | C15H22  | 000483-77-2 | 30   |
| 3    |    | Octadecane                          | 254 | C18H38  | 000593-45-3 | 30   |
| 4    |    | Nonadecane                          | 268 | C19H40  | 000629-92-5 | 30   |
| 5    |    | Oxazole, 5-methyl-2-phenyl-         | 159 | C10H9NO | 005221-67-0 | 25   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

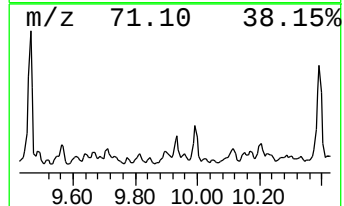
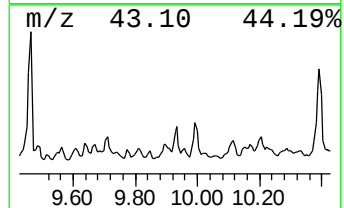
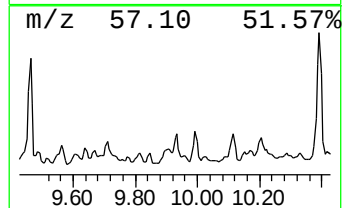
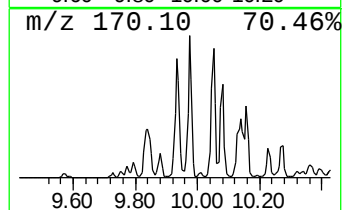
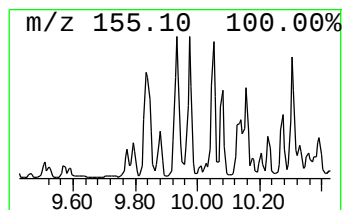
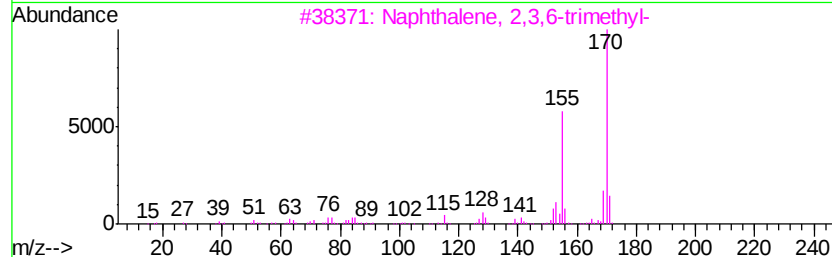
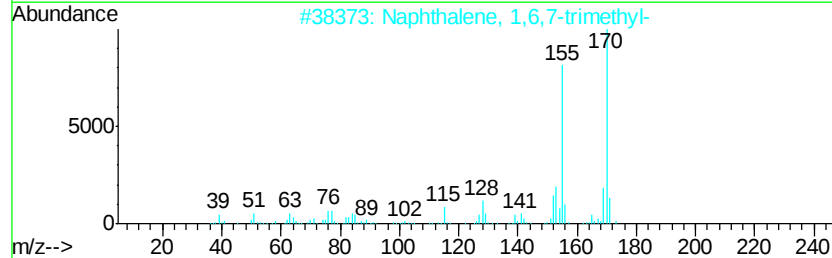
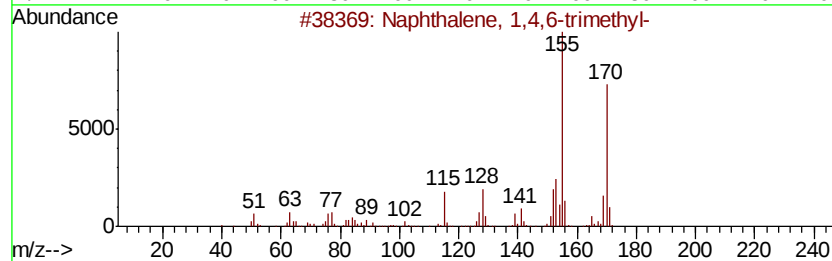
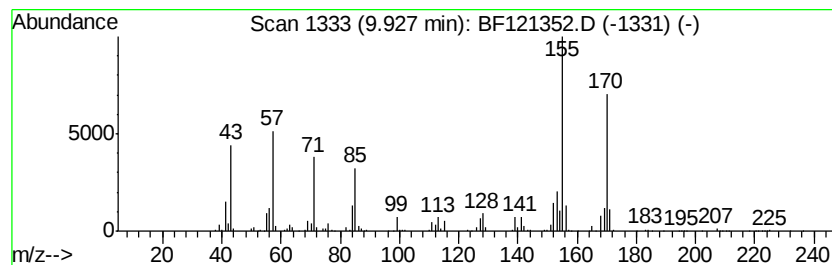
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 3-(2-Methyl-propenyl)-1H-in... Concentration Rank 7

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.93 | 17.03 ng | 1000670 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#         | Qual |
|------|----|---------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, 1,4,6-trimethyl-   | 170 | C13H14  | 002131-42-2  | 96   |
| 2    |    | Naphthalene, 1,6,7-trimethyl-   | 170 | C13H14  | 002245-38-7  | 93   |
| 3    |    | Naphthalene, 2,3,6-trimethyl-   | 170 | C13H14  | 000829-26-5  | 93   |
| 4    |    | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14  | 1000187-78-5 | 87   |
| 5    |    | Naphthalene, 1,4,5-trimethyl-   | 170 | C13H14  | 002131-41-1  | 81   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

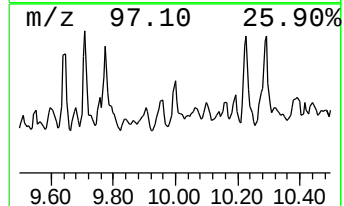
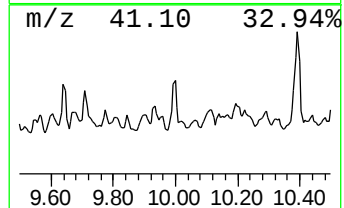
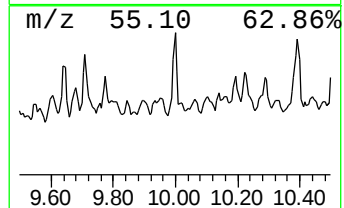
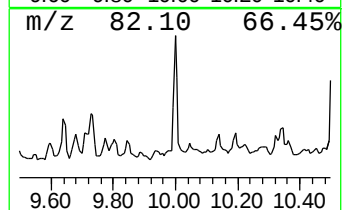
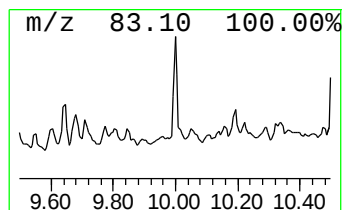
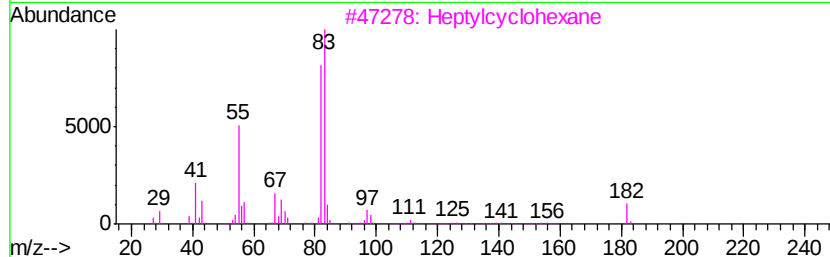
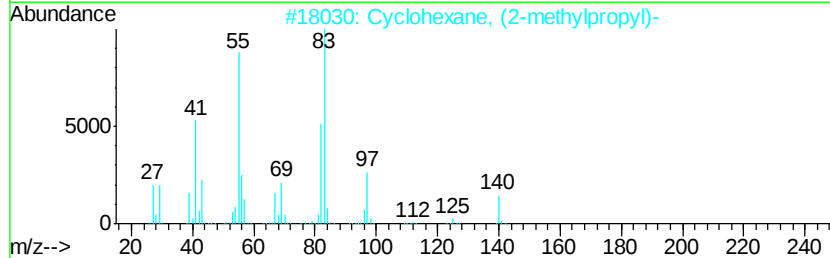
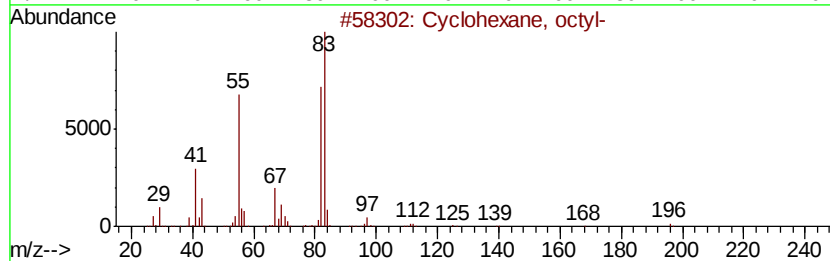
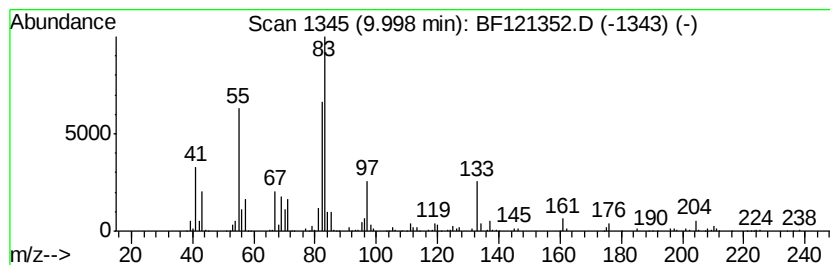
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Cyclohexane, octyl- Concentration Rank 10

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T. |
|-------|----------|--------|------------------|------|
| 10.00 | 16.11 ng | 946572 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, octyl-            | 196 | C14H28  | 001795-15-9 | 70   |
| 2    |    | Cyclohexane, (2-methylpropyl)- | 140 | C10H20  | 001678-98-4 | 64   |
| 3    |    | Heptylcyclohexane              | 182 | C13H26  | 005617-41-4 | 59   |
| 4    |    | Cyclohexane, 2-propenyl-       | 124 | C9H16   | 002114-42-3 | 58   |
| 5    |    | Cyclohexane, pentyl-           | 154 | C11H22  | 004292-92-6 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

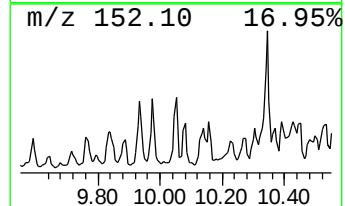
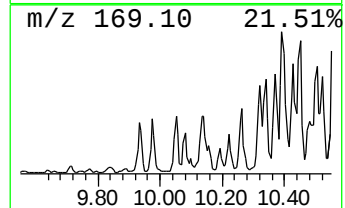
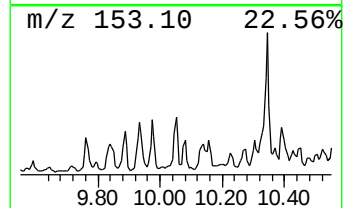
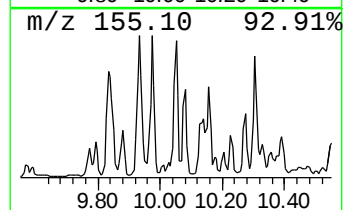
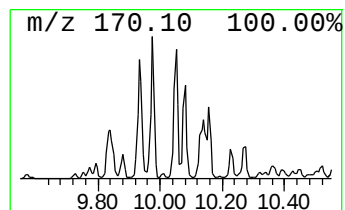
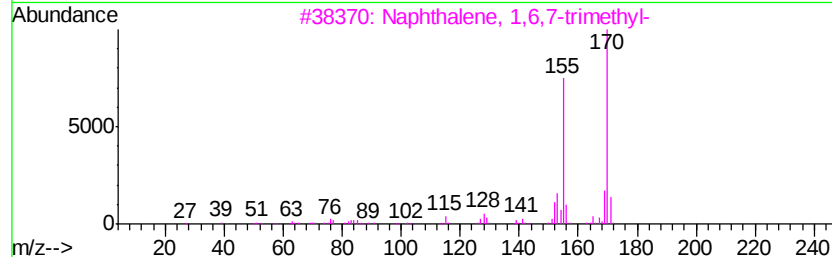
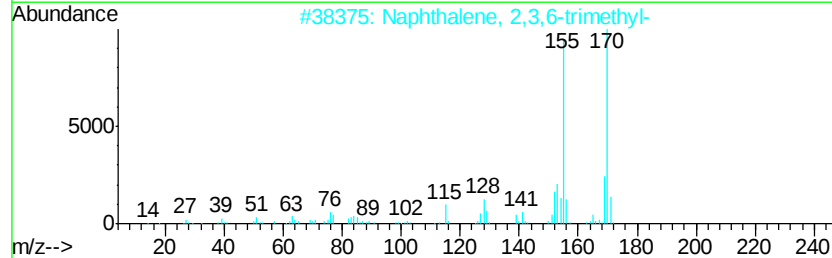
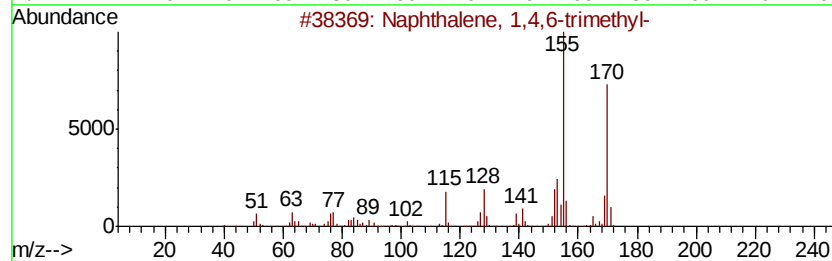
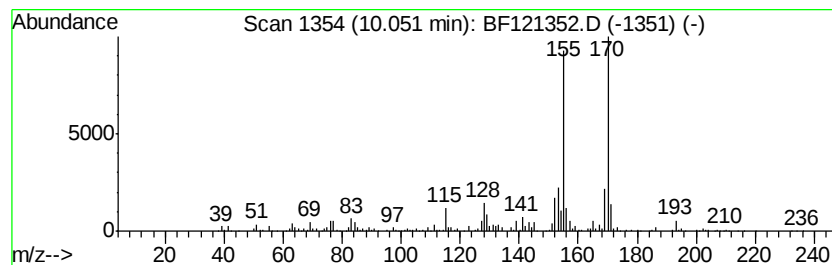
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Naphthalene, 1,4,6-trimethyl- Concentration Rank 8

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T. |
|-------|----------|--------|------------------|------|
| 10.05 | 16.97 ng | 997429 | Acenaphthene-d10 | 9.73 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm | CAS#         | Qual |
|------|----|---|---------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, 1,4,6-trimethyl-   | 170 | C13H14  | 002131-42-2  | 97   |
| 2    |    |   | Naphthalene, 2,3,6-trimethyl-   | 170 | C13H14  | 000829-26-5  | 97   |
| 3    |    |   | Naphthalene, 1,6,7-trimethyl-   | 170 | C13H14  | 002245-38-7  | 96   |
| 4    |    |   | 4,6,8-Trimethylazulene          | 170 | C13H14  | 000941-81-1  | 94   |
| 5    |    |   | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14  | 1000187-78-5 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

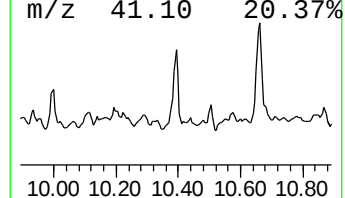
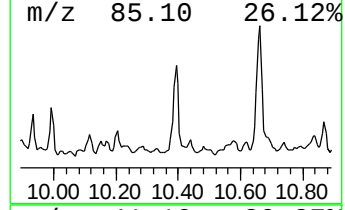
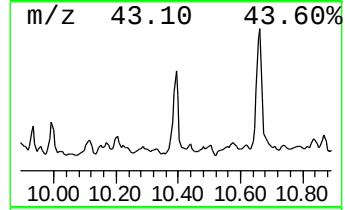
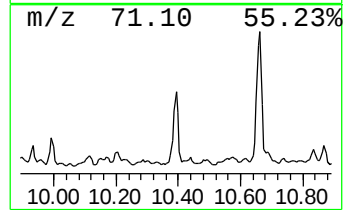
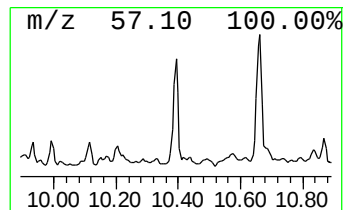
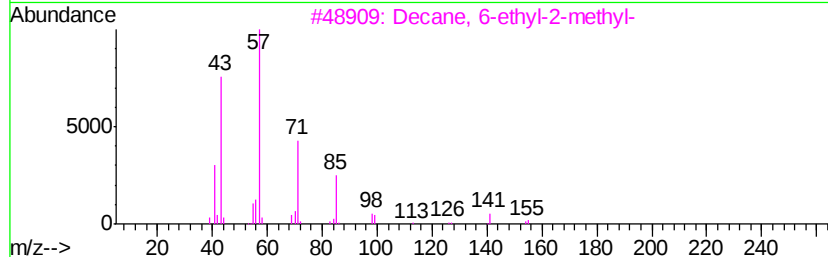
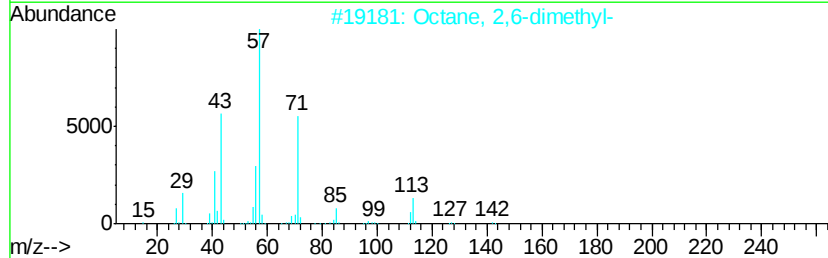
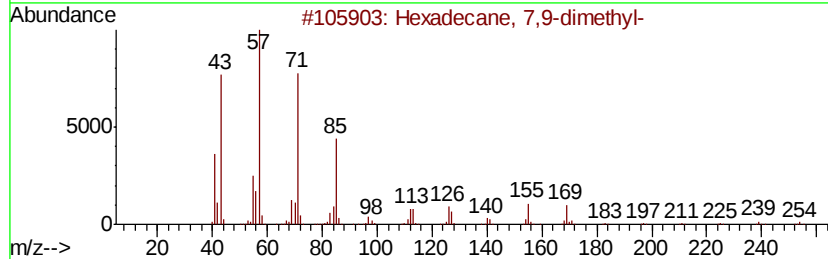
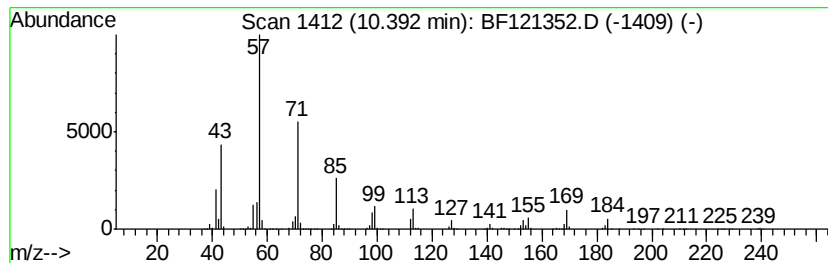
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Hexadecane, 7,9-dimethyl- Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T. |
|-------|----------|---------|------------------|------|
| 10.39 | 30.67 ng | 1802510 | Acenaphthene-d10 | 9.73 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane, 7,9-dimethyl-  | 254 | C18H38  | 021164-95-4 | 58   |
| 2    |    | Octane, 2,6-dimethyl-      | 142 | C10H22  | 002051-30-1 | 55   |
| 3    |    | Decane, 6-ethyl-2-methyl-  | 184 | C13H28  | 062108-21-8 | 50   |
| 4    |    | Heptane, 3-ethyl-5-methyl- | 142 | C10H22  | 052896-90-9 | 49   |
| 5    |    | Tridecane                  | 184 | C13H28  | 000629-50-5 | 49   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

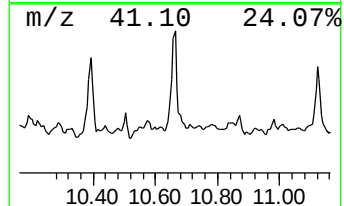
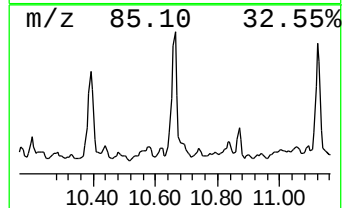
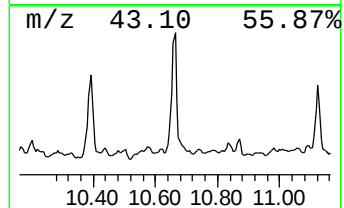
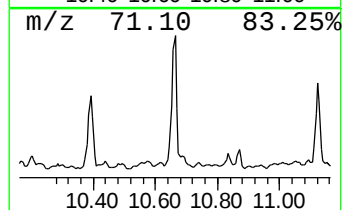
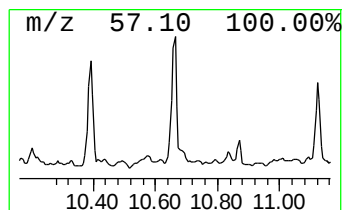
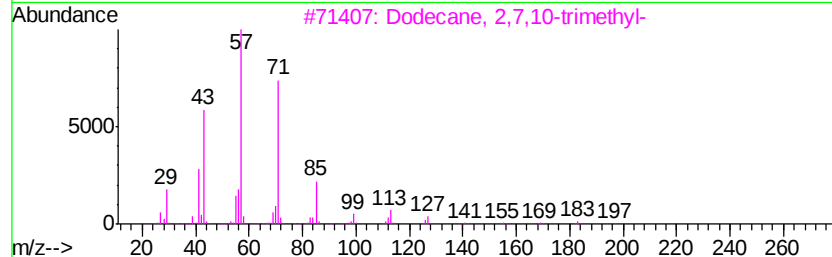
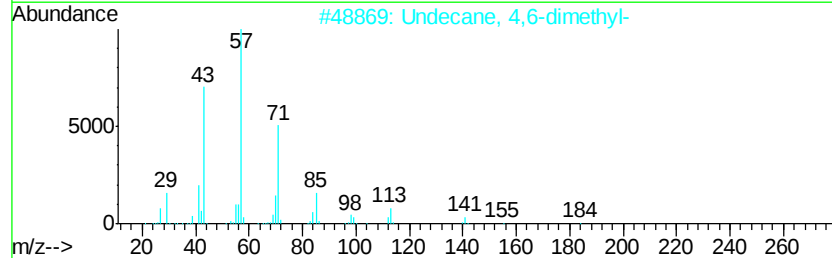
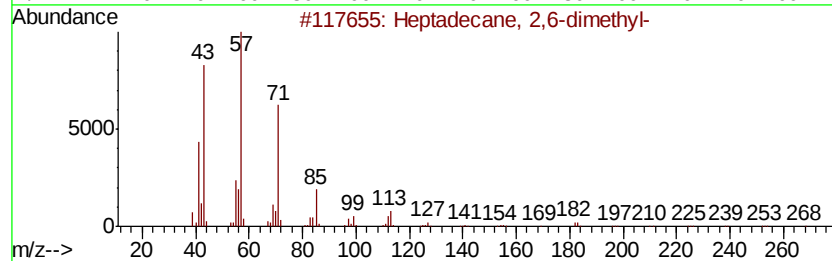
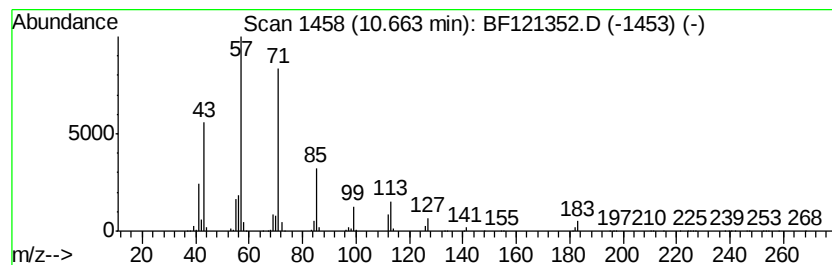
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 14 Heptadecane, 2,6-dimethyl- Concentration Rank 1

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|---------|------------------|--------------|------|
| 10.66     | 69.32 ng                            | 2980920 | Phenanthrene-d10 | 11.22        |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#         | Qual |
| 1         | Heptadecane, 2,6-dimethyl-          | 268     | C19H40           | 054105-67-8  | 78   |
| 2         | Undecane, 4,6-dimethyl-             | 184     | C13H28           | 017312-82-2  | 78   |
| 3         | Dodecane, 2,7,10-trimethyl-         | 212     | C15H32           | 074645-98-0  | 64   |
| 4         | Sulfurous acid, 2-ethylhexyl pen... | 264     | C13H28O3S        | 1000309-18-9 | 59   |
| 5         | Tridecane, 5-propyl-                | 226     | C16H34           | 055045-11-9  | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

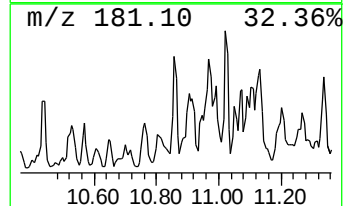
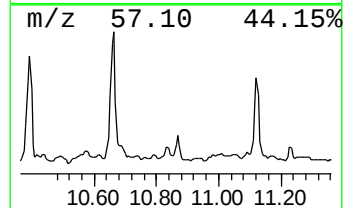
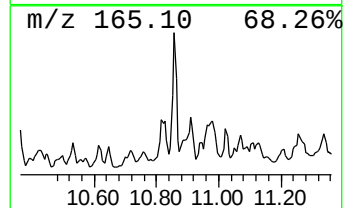
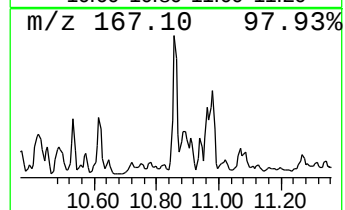
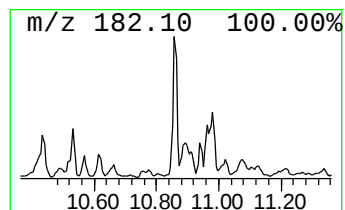
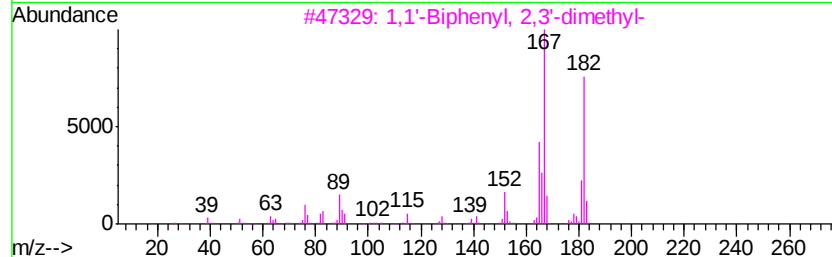
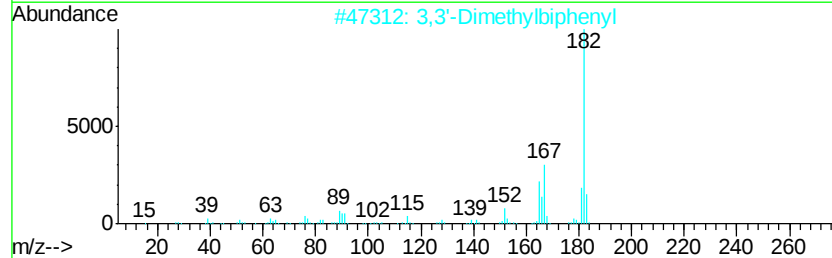
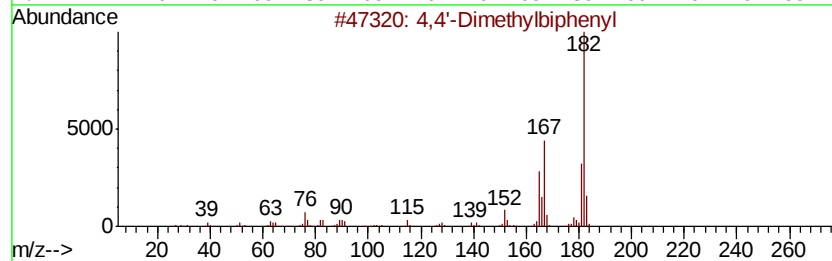
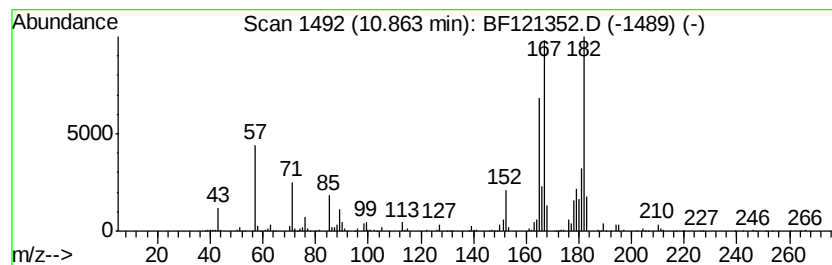
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 15 4,4'-Dimethylbiphenyl Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 10.86     | 20.94 ng                            | 900559 | Phenanthrene-d10 | 11.22       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 4,4'-Dimethylbiphenyl               | 182    | C14H14           | 000613-33-2 | 81   |
| 2         | 3,3'-Dimethylbiphenyl               | 182    | C14H14           | 000612-75-9 | 72   |
| 3         | 1,1'-Biphenyl, 2,3'-dimethyl-       | 182    | C14H14           | 000611-43-8 | 70   |
| 4         | 1,4-Methanonaphthalene,1,4-dihyd... | 182    | C14H14           | 007350-72-3 | 68   |
| 5         | 1,1'-Biphenyl, 2,4'-dimethyl-       | 182    | C14H14           | 000611-61-0 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

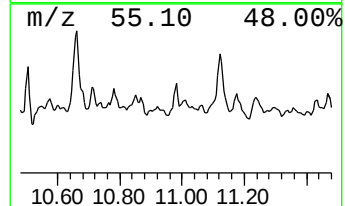
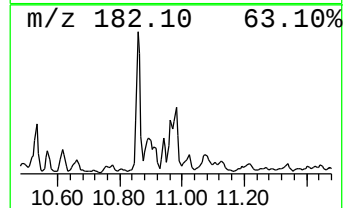
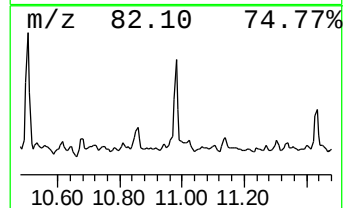
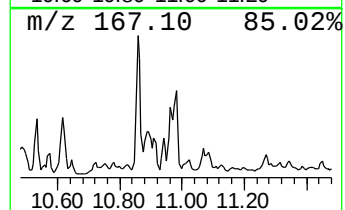
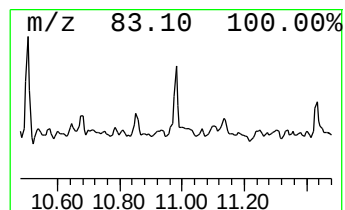
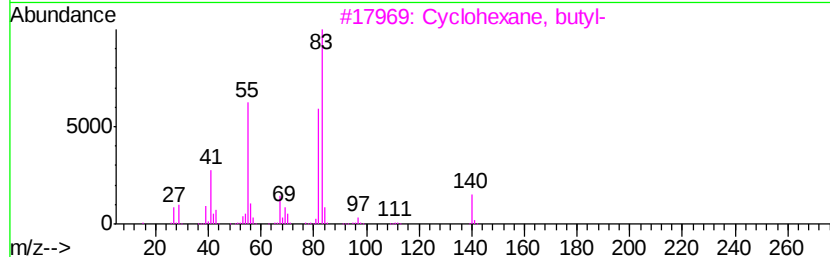
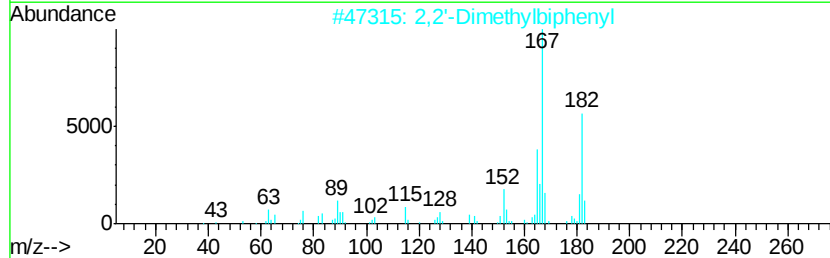
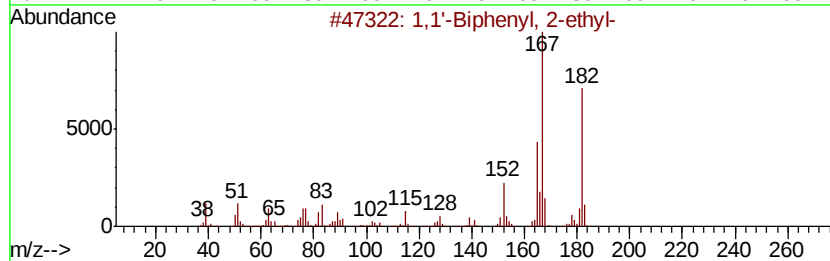
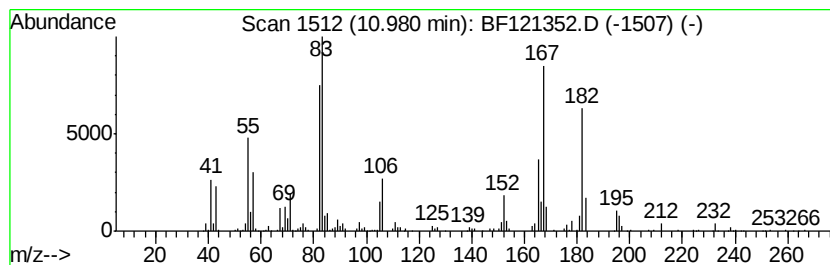
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 16 1,1'-Biphenyl, 2-ethyl- Concentration Rank 6

| R.T.      | EstConc                 | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------|--------|------------------|-------------|-------|
| 10.98     | 19.77 ng                | 850258 | Phenanthrene-d10 |             | 11.22 |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual  |
| 1         | 1,1'-Biphenyl, 2-ethyl- | 182    | C14H14           | 001812-51-7 | 59    |
| 2         | 2,2'-Dimethylbiphenyl   | 182    | C14H14           | 000605-39-0 | 42    |
| 3         | Cyclohexane, butyl-     | 140    | C10H20           | 001678-93-9 | 41    |
| 4         | Cyclohexane, pentyl-    | 154    | C11H22           | 004292-92-6 | 41    |
| 5         | Cyclohexane, octyl-     | 196    | C14H28           | 001795-15-9 | 41    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

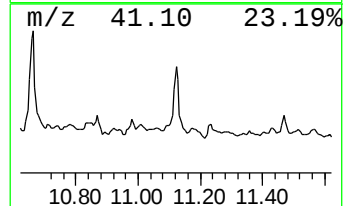
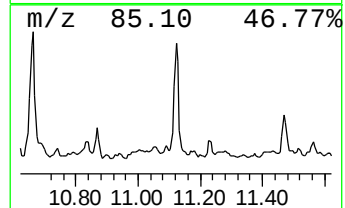
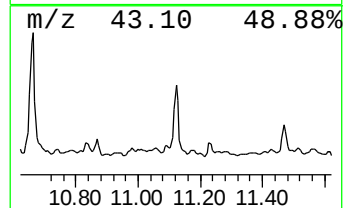
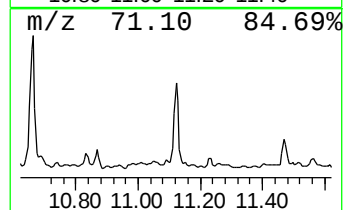
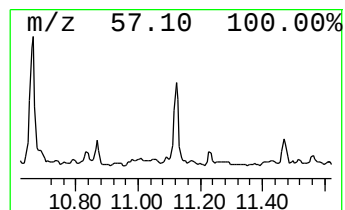
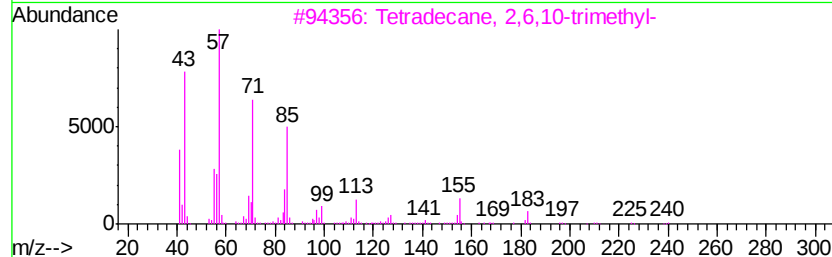
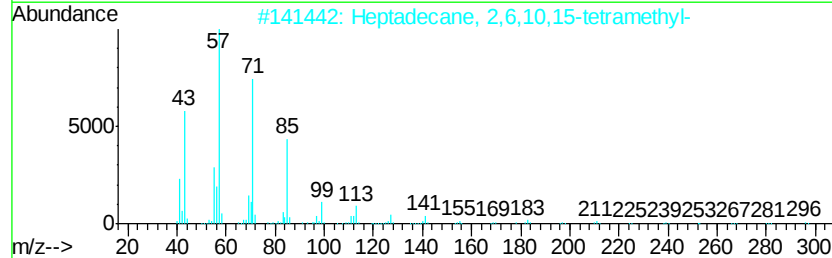
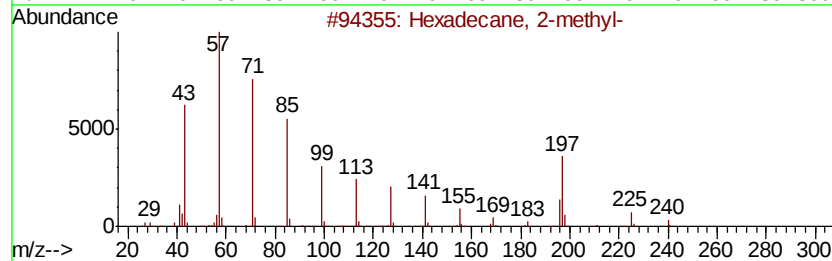
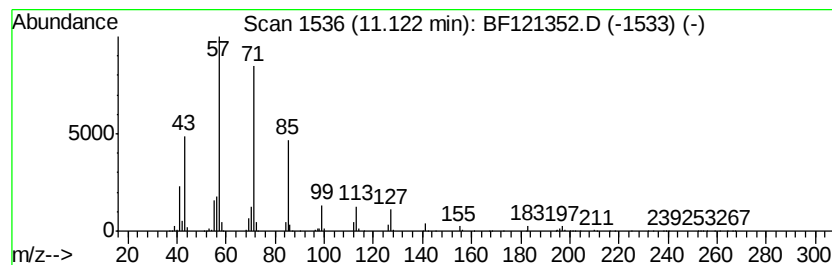
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Hexadecane, 2-methyl- Concentration Rank 2

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.12 | 49.76 ng | 2139560 | Phenanthrene-d10 | 11.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane, 2-methyl-               | 240 | C17H36  | 001560-92-5 | 90   |
| 2    |    | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 90   |
| 3    |    | Tetradecane, 2,6,10-trimethyl-      | 240 | C17H36  | 014905-56-7 | 86   |
| 4    |    | Octadecane                          | 254 | C18H38  | 000593-45-3 | 83   |
| 5    |    | Hexadecane, 7-methyl-               | 240 | C17H36  | 026730-20-1 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

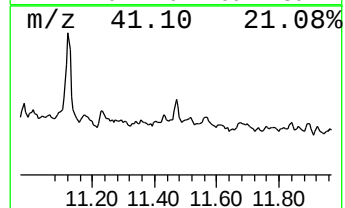
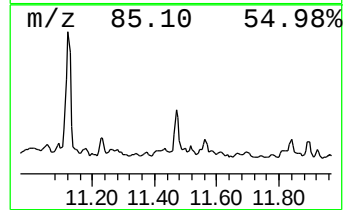
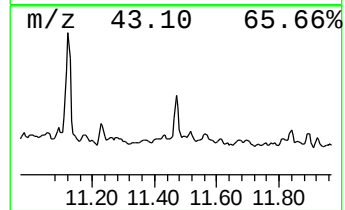
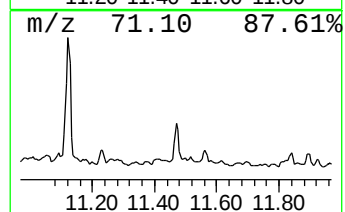
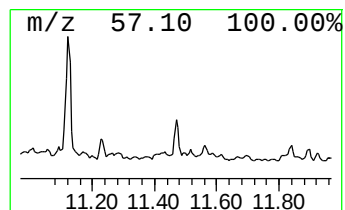
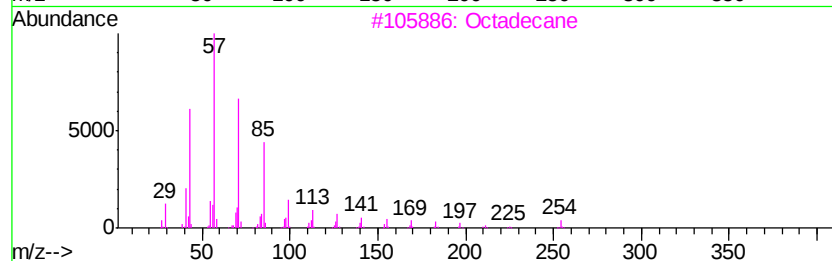
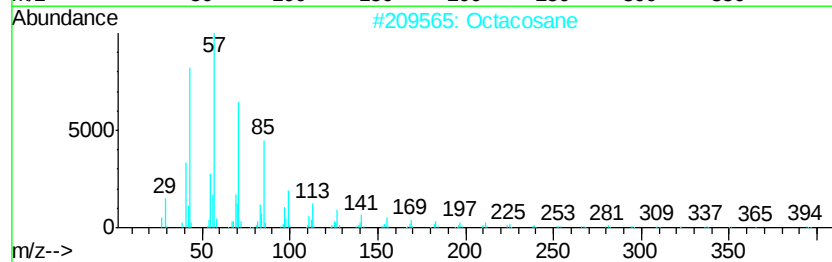
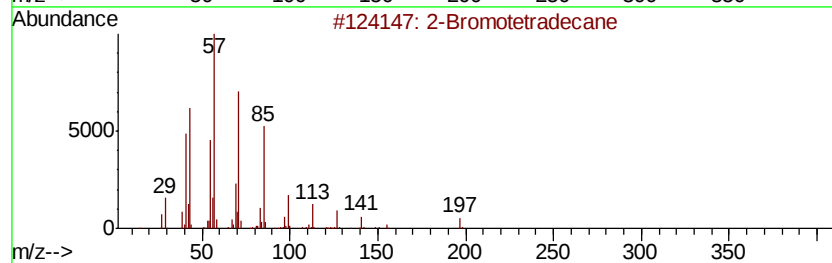
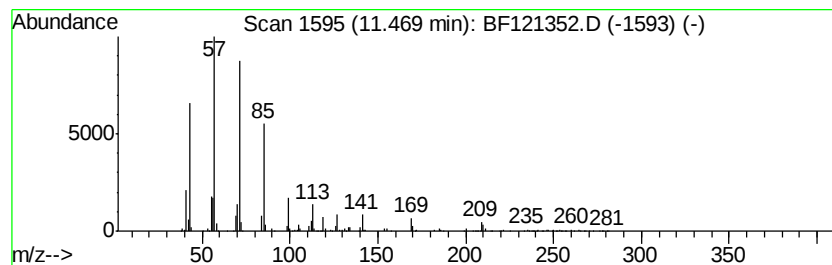
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 2-Bromotetradecane Concentration Rank 12

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.47 | 13.10 ng | 563491 | Phenanthrene-d10 | 11.22 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Bromotetradecane  | 276 | C14H29Br | 074036-95-6 | 86   |
| 2    |    | Octacosane          | 394 | C28H58   | 000630-02-4 | 86   |
| 3    |    | Octadecane          | 254 | C18H38   | 000593-45-3 | 86   |
| 4    |    | Hexadecane          | 226 | C16H34   | 000544-76-3 | 86   |
| 5    |    | Undecane, 5-methyl- | 170 | C12H26   | 001632-70-8 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

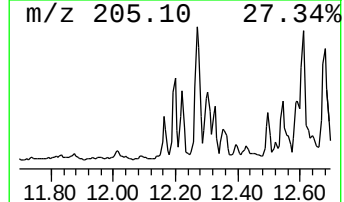
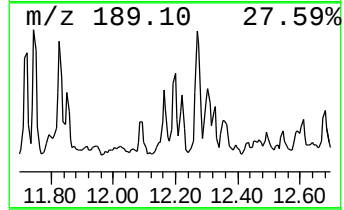
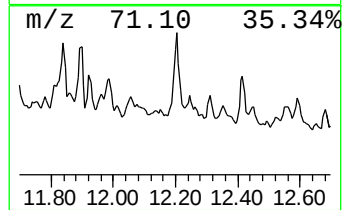
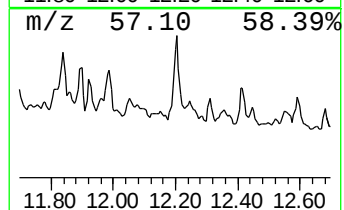
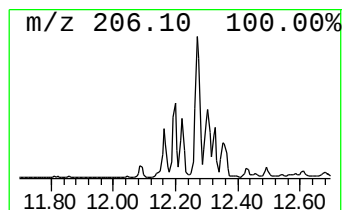
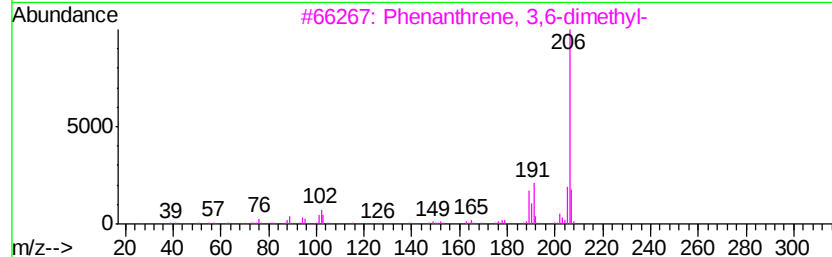
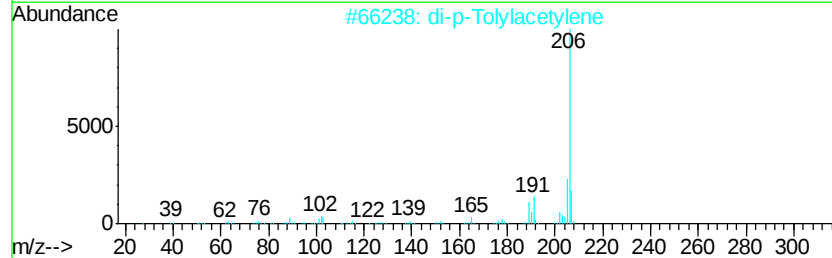
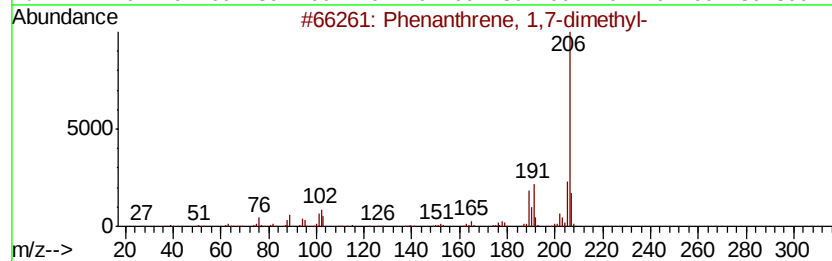
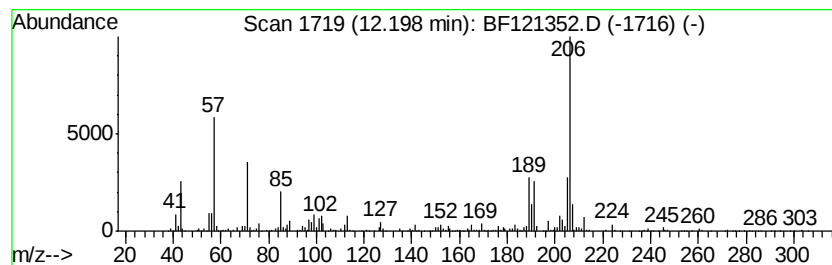
Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 19 Phenanthrene, 1,7-dimethyl- Concentration Rank 13

| R.T.    | EstConc  | Area                                | Relative to ISTD |         | R.T.        |      |
|---------|----------|-------------------------------------|------------------|---------|-------------|------|
| 12.20   | 12.91 ng | 555253                              | Phenanthrene-d10 |         | 11.22       |      |
| Hit# of | 5        | Tentative ID                        | MW               | MolForm | CAS#        | Qual |
| 1       |          | Phenanthrene, 1,7-dimethyl-         | 206              | C16H14  | 000483-87-4 | 89   |
| 2       |          | di-p-Tolylacetylene                 | 206              | C16H14  | 002789-88-0 | 86   |
| 3       |          | Phenanthrene, 3,6-dimethyl-         | 206              | C16H14  | 001576-67-6 | 58   |
| 4       |          | Phenanthrene, 2,7-dimethyl-         | 206              | C16H14  | 001576-69-8 | 58   |
| 5       |          | 1,3-Butadiene, 1,4-diphenyl-, (E... | 206              | C16H14  | 000538-81-8 | 46   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082020\  
Data File : BF121352.D  
Acq On : 20 Aug 2020 17:45  
Operator : JU/CG  
Sample : L3689-11 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

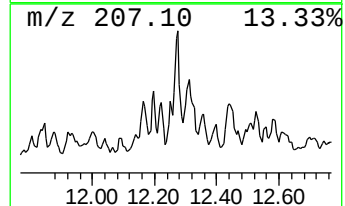
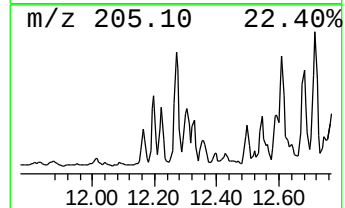
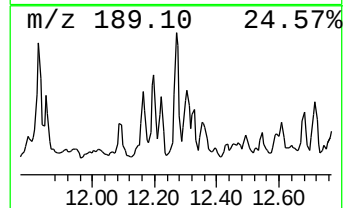
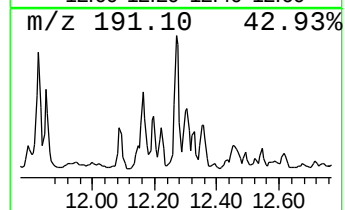
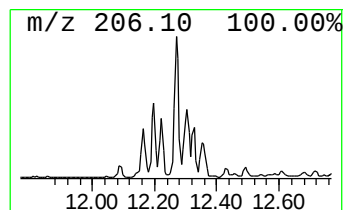
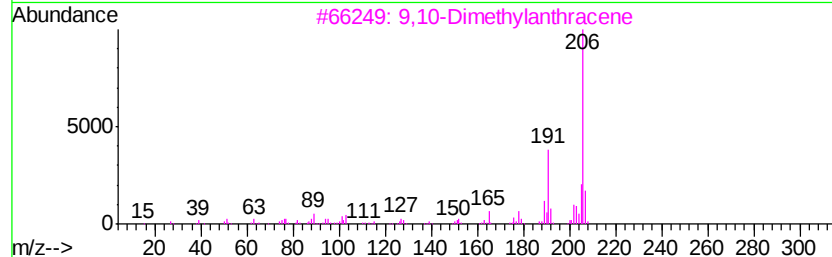
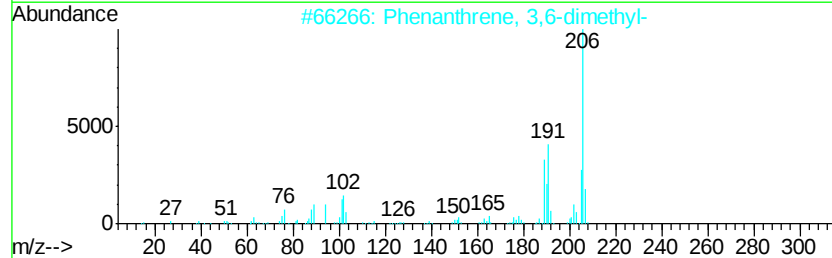
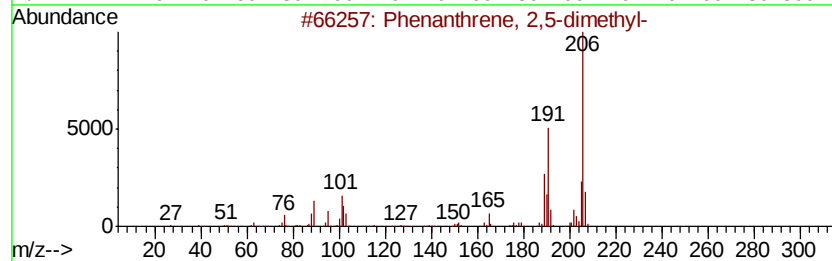
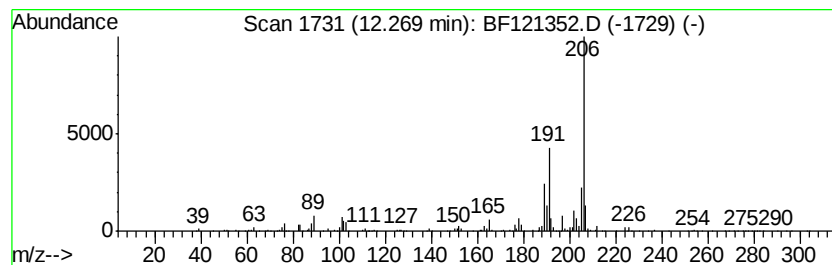
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 Phenanthrene, 2,5-dimethyl- Concentration Rank 17

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.27 | 11.20 ng | 481607 | Phenanthrene-d10 | 11.22 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 93   |
| 2    |    | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 90   |
| 3    |    | 9,10-Dimethylanthracene     | 206 | C16H14  | 000781-43-1 | 90   |
| 4    |    | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 89   |
| 5    |    | Phenanthrene, 2,3-dimethyl- | 206 | C16H14  | 003674-65-5 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF082020\  
 Data File : BF121352.D  
 Acq On : 20 Aug 2020 17:45  
 Operator : JU/CG  
 Sample : L3689-11 2X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF081920.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 |
| unknown8.27          | 8.27  | 9.0 ng  |       | 616385   | 2                     | 7.97  | 1375440 | 20.0 |
| Octane, 2,6-dimet... | 8.40  | 23.2 ng |       | 1596710  | 2                     | 7.97  | 1375440 | 20.0 |
| Heptylcyclohexane    | 8.89  | 10.1 ng |       | 594476   | 3                     | 9.73  | 1175280 | 20.0 |
| 2-Isopropyl-5-met... | 9.14  | 16.7 ng |       | 982195   | 3                     | 9.73  | 1175280 | 20.0 |
| Naphthalene, 1,7-... | 9.39  | 9.7 ng  |       | 567012   | 3                     | 9.73  | 1175280 | 20.0 |
| Naphthalene, 1,3-... | 9.59  | 12.4 ng |       | 727598   | 3                     | 9.73  | 1175280 | 20.0 |
| unknown9.64          | 9.64  | 12.8 ng |       | 751793   | 3                     | 9.73  | 1175280 | 20.0 |
| Naphthalene, 1,6,... | 9.84  | 12.4 ng |       | 731374   | 3                     | 9.73  | 1175280 | 20.0 |
| unknown9.89          | 9.89  | 14.6 ng |       | 858368   | 3                     | 9.73  | 1175280 | 20.0 |
| 3-(2-Methyl-prope... | 9.93  | 17.0 ng |       | 1000670  | 3                     | 9.73  | 1175280 | 20.0 |
| Cyclohexane, octyl-  | 10.00 | 16.1 ng |       | 946572   | 3                     | 9.73  | 1175280 | 20.0 |
| Naphthalene, 1,4,... | 10.05 | 17.0 ng |       | 997429   | 3                     | 9.73  | 1175280 | 20.0 |
| Hexadecane, 7,9-d... | 10.39 | 30.7 ng |       | 1802510  | 3                     | 9.73  | 1175280 | 20.0 |
| Heptadecane, 2,6-... | 10.66 | 69.3 ng |       | 2980920  | 4                     | 11.22 | 859998  | 20.0 |
| 4,4'-Dimethylbiph... | 10.86 | 20.9 ng |       | 900559   | 4                     | 11.22 | 859998  | 20.0 |
| 1,1'-Biphenyl, 2-... | 10.98 | 19.8 ng |       | 850258   | 4                     | 11.22 | 859998  | 20.0 |
| Hexadecane, 2-met... | 11.12 | 49.8 ng |       | 2139560  | 4                     | 11.22 | 859998  | 20.0 |
| 2-Bromotetradecane   | 11.47 | 13.1 ng |       | 563491   | 4                     | 11.22 | 859998  | 20.0 |
| Phenanthrene, 1,7... | 12.20 | 12.9 ng |       | 555253   | 4                     | 11.22 | 859998  | 20.0 |
| Phenanthrene, 2,5... | 12.27 | 11.2 ng |       | 481607   | 4                     | 11.22 | 859998  | 20.0 |