LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061118\
Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.201 | 483 | 487 | 493 | rVV2 | 273798 | 362262 | 8.61% | 0.401% |
| 2 | 5.590 | 546 | 553 | 558 | rVB | 2504839 | 2437632 | 57.97% | 2.697% |
| 3 | 6.001 | 617 | 623 | 625 | rBV3 | 178790 | 230638 | 5.48% | 0.255% |
| 4 | 6.143 | 644 | 647 | 649 | rVB2 | 267004 | 264219 | 6.28% | 0.292% |
| 5 | 6.213 | 655 | 659 | 660 | rBV2 | 276903 | 239800 | 5.70% | 0.265% |
| 6 | 6.231 | 660 | 662 | 667 | rVB | 252154 | 243626 | 5.79% | 0.270% |
| 7 | 6.507 | 708 | 709 | 714 | rVV4 | 219842 | 234712 | 5.58% | 0.260% |
| 8 | 6.590 | 718 | 723 | 727 | rVV | 1645341 | 1738132 | 41.33% | 1.923% |
| 9 | 6.654 | 730 | 734 | 736 | rVV2 | 178320 | 260151 | 6.19% | 0.288% |
| 10 | 6.743 | 739 | 749 | 752 | rBV | 3569116 | 3810667 | 90.62% | 4.216% |
| 11 | 6.925 | 777 | 780 | 784 | rVV3 | 246916 | 245036 | 5.83% | 0.271% |
| 12 | 6.972 | 784 | 788 | 791 | rVB | 1888538 | 1612511 | 38.35% | 1.784% |
| 13 | 7.131 | 808 | 815 | 817 | rBV | 3610356 | 3838468 | 91.28% | 4.246% |
| 14 | 7.154 | 817 | 819 | 823 | rVB | 1328094 | 1047441 | 24.91% | 1.159% |
| 15 | 7.213 | 827 | 829 | 831 | rBV | 731036 | 584402 | 13.90% | 0.646% |
| 16 | 7.237 | 831 | 833 | 836 | rVB3 | 408467 | 338699 | 8.05% | 0.375% |
| 17 | 7.284 | 839 | 841 | 843 | rBV | 358793 | 318025 | 7.56% | 0.352% |
| 18 | 7.307 | 843 | 845 | 849 | rVB3 | 406842 | 404637 | 9.62% | 0.448% |
| 19 | 7.366 | 853 | 855 | 857 | rVB2 | 491978 | 371655 | 8.84% | 0.411% |
| 20 | 7.407 | 857 | 862 | 864 | rVB3 | 377819 | 381050 | 9.06% | 0.422% |
| 21 | 7.501 | 873 | 878 | 880 | rVV2 | 2118250 | 2184372 | 51.94% | 2.416% |
| 22 | 7.537 | 880 | 884 | 887 | rVV2 | 3532518 | 3700847 | 88.01% | 4.094% |
| 23 | 7.613 | 891 | 897 | 900 | rVB4 | 715672 | 1108378 | 26.36% | 1.226% |
| 24 | 7.660 | 900 | 905 | 910 | rBV4 | 539643 | 946853 | 22.52% | 1.047% |
| 25 | 7.737 | 915 | 918 | 920 | rVV | 1352328 | 1038029 | 24.68% | 1.148% |
| 26 | 7.760 | 920 | 922 | 924 | rVV2 | 429978 | 446818 | 10.63% | 0.494% |
| 27 | 7.778 | 924 | 925 | 929 | rVB3 | 624071 | 507834 | 12.08% | 0.562% |
| 28 | 7.848 | 932 | 937 | 938 | rBV3 | 387313 | 479797 | 11.41% | 0.531% |
| 29 | 7.866 | 938 | 940 | 942 | rVB | 497308 | 388701 | 9.24% | 0.430% |
| 30 | 7.895 | 942 | 945 | 947 | rBV3 | 885881 | 896722 | 21.32% | 0.992% |
| 31 | 7.925 | 947 | 950 | 954 | rVB3 | 952853 | 978613 | 23.27% | 1.083% |
| 32 | 7.990 | 958 | 961 | 964 | rBV | 3095758 | 2721623 | 64.72% | 3.011% |
| 33 | 8.066 | 970 | 974 | 976 | rBV3 | 472942 | 525510 | 12.50% | 0.581% |
| 34 | 8.095 | 976 | 979 | 981 | rVV | 810040 | 694502 | 16.52% | 0.768% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061118\
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Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 8.119 | 981 | 983 | 986 | rVB2 | 518502 | 424902 | 10.10% | 0.470% |
| 36 | 8.166 | 986 | 991 | 993 | rBV4 | 459376 | 740490 | 17.61% | 0.819% |
| 37 | 8.195 | 993 | 996 | 998 | rVV3 | 493548 | 705351 | 16.77% | 0.780% |
| 38 | 8.254 | 1000 | 1006 | 1008 | rVV2 | 1875892 | 3020425 | 71.82% | 3.341% |
| 39 | 8.278 | 1008 | 1010 | 1012 | rVV | 1992077 | 1772820 | 42.16% | 1.961% |
| 40 | 8.301 | 1012 | 1014 | 1017 | rVB2 | 1783961 | 1512821 | 35.97% | 1.674% |
| 41 | 8.337 | 1017 | 1020 | 1022 | rBV2 | 752424 | 721991 | 17.17% | 0.799% |
| 42 | 8.401 | 1028 | 1031 | 1034 | rBV3 | 319692 | 301492 | 7.17% | 0.334% |
| 43 | 8.454 | 1037 | 1040 | 1044 | rVB3 | 630254 | 873554 | 20.77% | 0.966% |
| 44 | 8.495 | 1044 | 1047 | 1051 | rBV3 | 405651 | 593471 | 14.11% | 0.657% |
| 45 | 8.537 | 1051 | 1054 | 1058 | rVB3 | 1029114 | 1257987 | 29.91% | 1.392% |
| 46 | 8.637 | 1066 | 1071 | 1074 | rBV3 | 734142 | 995345 | 23.67% | 1.101% |
| 47 | 8.666 | 1074 | 1076 | 1078 | rVV | 807936 | 561196 | 13.35% | 0.621% |
| 48 | 8.719 | 1083 | 1085 | 1089 | rVB4 | 468759 | 494315 | 11.75% | 0.547% |
| 49 | 8.754 | 1089 | 1091 | 1094 | rVB | 655996 | 491554 | 11.69% | 0.544% |
| 50 | 8.795 | 1095 | 1098 | 1103 | rVB | 622073 | 595667 | 14.16% | 0.659% |
| 51 | 8.842 | 1103 | 1106 | 1109 | rBV4 | 248346 | 277719 | 6.60% | 0.307% |
| 52 | 8.884 | 1110 | 1113 | 1114 | rBV2 | 369844 | 357284 | 8.50% | 0.395% |
| 53 | 8.913 | 1116 | 1118 | 1120 | rBV2 | 321567 | 278575 | 6.62% | 0.308% |
| 54 | 8.972 | 1125 | 1128 | 1130 | rVV | 2065056 | 1787325 | 42.50% | 1.977% |
| 55 | 9.037 | 1136 | 1139 | 1141 | rVV4 | 208071 | 275404 | 6.55% | 0.305% |
| 56 | 9.072 | 1141 | 1145 | 1148 | rVB | 2452821 | 2311723 | 54.97% | 2.557% |
| 57 | 9.195 | 1164 | 1166 | 1171 | rVB3 | 395186 | 459150 | 10.92% | 0.508% |
| 58 | 9.266 | 1174 | 1178 | 1180 | rVB2 | 1130718 | 1090109 | 25.92% | 1.206% |
| 59 | 9.295 | 1180 | 1183 | 1185 | rVB3 | 541865 | 525439 | 12.49% | 0.581% |
| 60 | 9.331 | 1185 | 1189 | 1192 | rVB | 4403133 | 4205264 | 100.00% | 4.652% |
| 61 | 9.360 | 1192 | 1194 | 1198 | rBV4 | 308735 | 315639 | 7.51% | 0.349% |
| 62 | 9.407 | 1198 | 1202 | 1203 | rBV2 | 356990 | 393564 | 9.36% | 0.435% |
| 63 | 9.507 | 1216 | 1219 | 1220 | rVV3 | 271664 | 288427 | 6.86% | 0.319% |
| 64 | 9.525 | 1220 | 1222 | 1224 | rVB | 587764 | 425734 | 10.12% | 0.471% |
| 65 | 9.595 | 1229 | 1234 | 1237 | rBV3 | 757380 | 1171233 | 27.85% | 1.296% |
| 66 | 9.672 | 1243 | 1247 | 1249 | rVV2 | 1039518 | 1319833 | 31.39% | 1.460% |
| 67 | 9.695 | 1249 | 1251 | 1253 | rVV2 | 719402 | 545459 | 12.97% | 0.603% |
| 68 | 9.719 | 1253 | 1255 | 1258 | rVB2 | 1066354 | 817070 | 19.43% | 0.904% |
| 69 | 9.784 | 1263 | 1266 | 1268 | rVV3 | 458160 | 581312 | 13.82% | 0.643% |
| 70 | 9.807 | 1268 | 1270 | 1272 | rVV3 | 332943 | 329892 | 7.84% | 0.365% |
| 71 | 9.831 | 1272 | 1274 | 1277 | rVV3 | 384725 | 398443 | 9.47% | 0.441% |

LSC Area Percent Report

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Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 9.872 | 1277 | 1281 | 1284 | rVB5 | 388109 | 593301 | 14.11% | 0.656% |
| 73 | 10.013 | 1303 | 1305 | 1309 | rVB | 1592920 | 1347185 | 32.04% | 1.490% |
| 74 | 10.172 | 1330 | 1332 | 1337 | rVB2 | 298043 | 329355 | 7.83% | 0.364% |
| 75 | 10.266 | 1346 | 1348 | 1354 | rVB5 | 435238 | 512299 | 12.18% | 0.567% |
| 76 | 10.325 | 1354 | 1358 | 1360 | rBV5 | 413409 | 525435 | 12.49% | 0.581% |
| 77 | 10.354 | 1361 | 1363 | 1365 | rVV2 | 272184 | 251656 | 5.98% | 0.278% |
| 78 | 10.407 | 1369 | 1372 | 1374 | rBV4 | 250524 | 314441 | 7.48% | 0.348% |
| 79 | 10.807 | 1437 | 1440 | 1442 | rBV | 2054974 | 1769602 | 42.08% | 1.958% |
| 80 | 10.831 | 1442 | 1444 | 1446 | rVB | 376575 | 274500 | 6.53% | 0.304% |
| 81 | 10.872 | 1449 | 1451 | 1454 | rVB | 312667 | 271198 | 6.45% | 0.300% |
| 82 | 10.931 | 1456 | 1461 | 1464 | rBV2 | 841403 | 1071914 | 25.49% | 1.186% |
| 83 | 10.978 | 1467 | 1469 | 1472 | rBV | 543161 | 442965 | 10.53% | 0.490% |
| 84 | 11.013 | 1472 | 1475 | 1478 | rBV2 | 611606 | 706083 | 16.79% | 0.781% |
| 85 | 11.048 | 1478 | 1481 | 1483 | rVB | 757853 | 594903 | 14.15% | 0.658% |
| 86 | 11.072 | 1483 | 1485 | 1487 | rVB | 326445 | 228765 | 5.44% | 0.253% |
| 87 | 11.119 | 1491 | 1493 | 1494 | rBV2 | 302796 | 281160 | 6.69% | 0.311% |
| 88 | 11.166 | 1498 | 1501 | 1504 | rVB2 | 698993 | 639335 | 15.20% | 0.707% |
| 89 | 11.195 | 1504 | 1506 | 1508 | rVB | 696254 | 504511 | 12.00% | 0.558% |
| 90 | 11.360 | 1531 | 1534 | 1536 | rBV3 | 443134 | 472784 | 11.24% | 0.523% |
| 91 | 11.389 | 1536 | 1539 | 1545 | rVB3 | 855778 | 1318289 | 31.35% | 1.458% |
| 92 | 11.507 | 1555 | 1559 | 1561 | rBV | 1211755 | 1129333 | 26.86% | 1.249% |
| 93 | 12.025 | 1645 | 1647 | 1651 | rVB2 | 397306 | 341826 | 8.13% | 0.378% |
| 94 | 12.213 | 1677 | 1679 | 1681 | rBV2 | 250082 | 228978 | 5.45% | 0.253% |
| 95 | 13.089 | 1824 | 1828 | 1831 | rBV | 3927268 | 3695020 | 87.87% | 4.088% |
| 96 | 13.642 | 1920 | 1922 | 1928 | rVB2 | 302231 | 301486 | 7.17% | 0.334% |
| 97 | 14.148 | 2004 | 2008 | 2011 | rBV | 1458322 | 1270134 | 30.20% | 1.405% |
| 98 | 14.660 | 2092 | 2095 | 2099 | rVB | 370320 | 342460 | 8.14% | 0.379% |
| 99 | 14.766 | 2110 | 2113 | 2121 | rVB2 | 231795 | 397670 | 9.46% | 0.440% |
| 100 | 15.677 | 2262 | 2268 | 2276 | rVB2 | 950716 | 1438581 | 34.21% | 1.591% |

Sum of corrected areas: 90395510

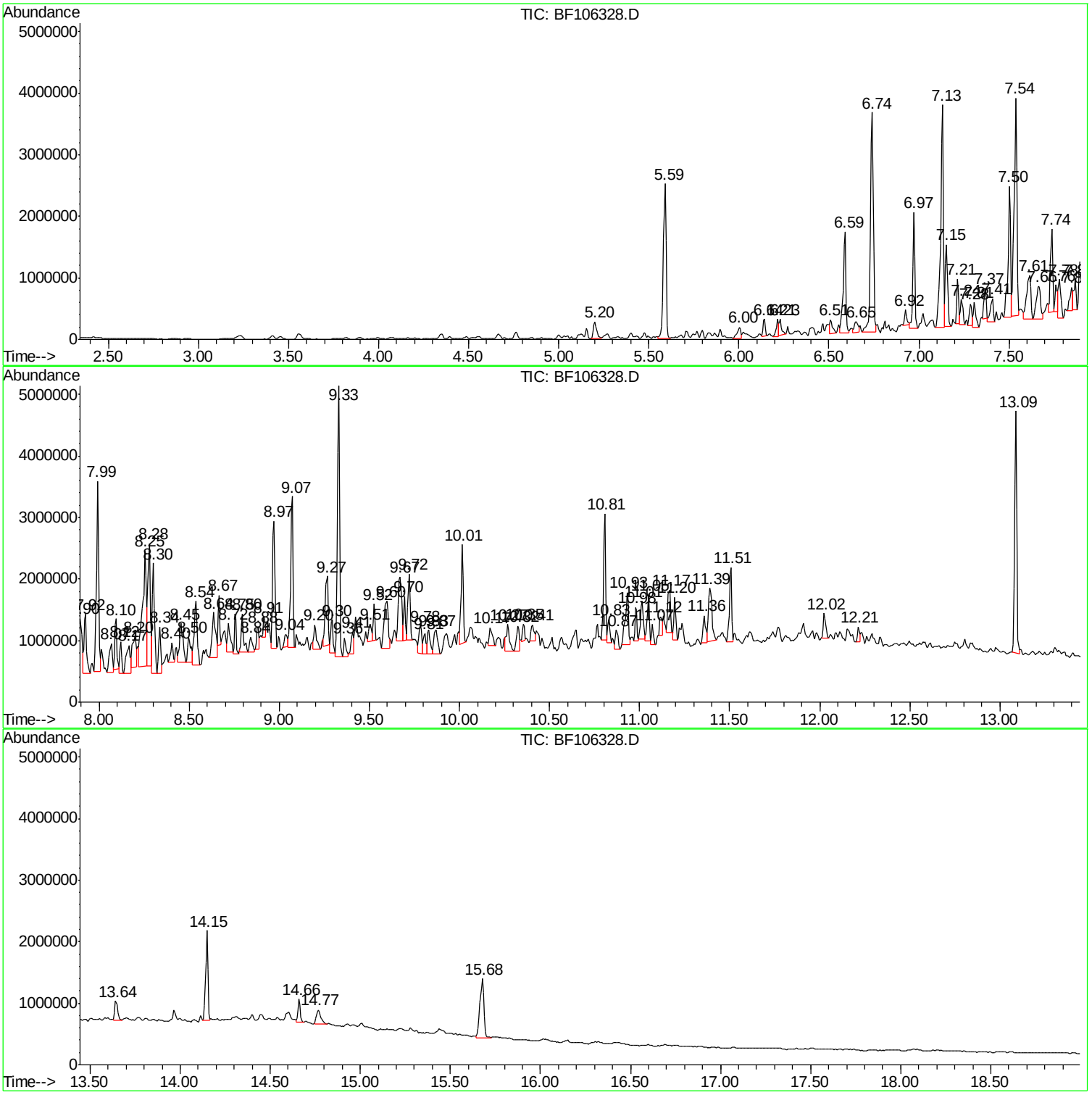
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061118\
Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061118\
Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

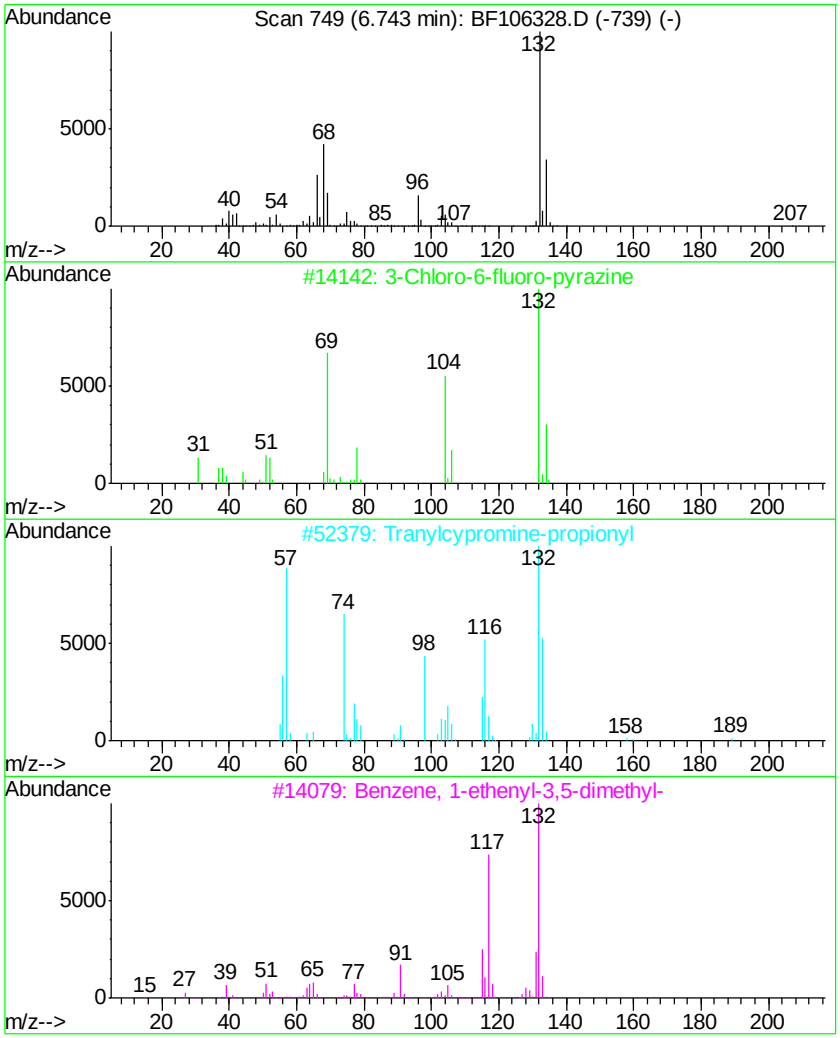
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

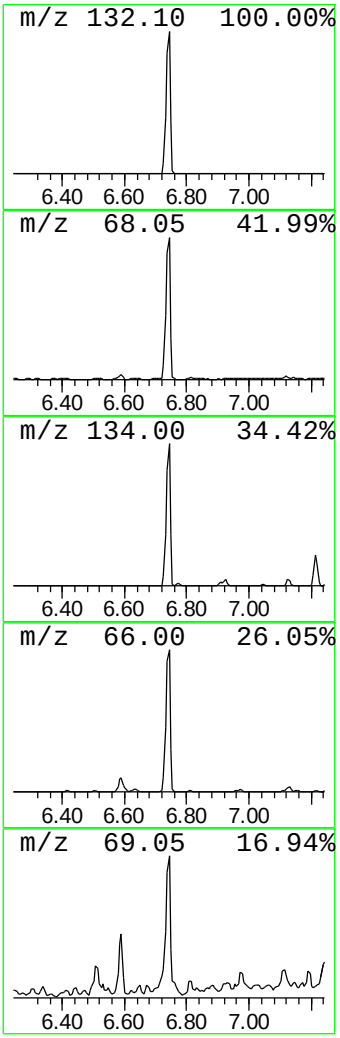
**********

Peak Number 1 unknown6.74 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.74 | 47.26 ng | 3810670 | 1,4-Dichlorobenzene-d4 | 6.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 3 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061118\
Data File : BF106328.D
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Sample : J3309-06
Misc :
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**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

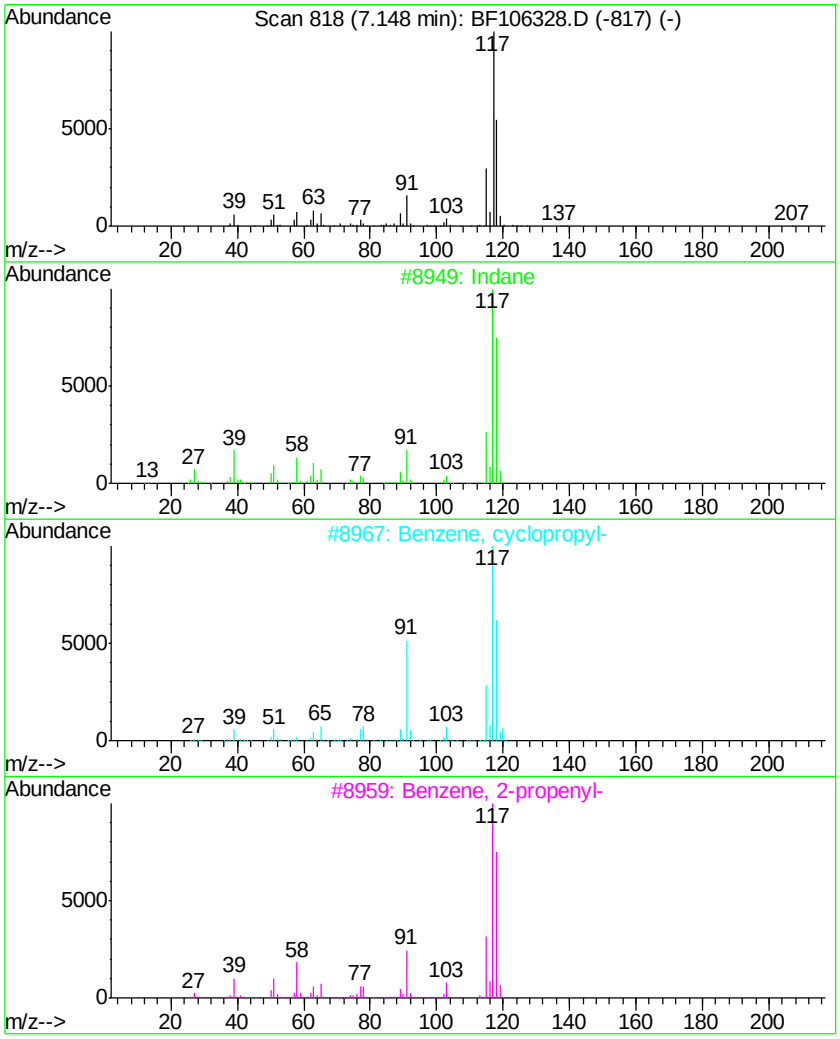
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

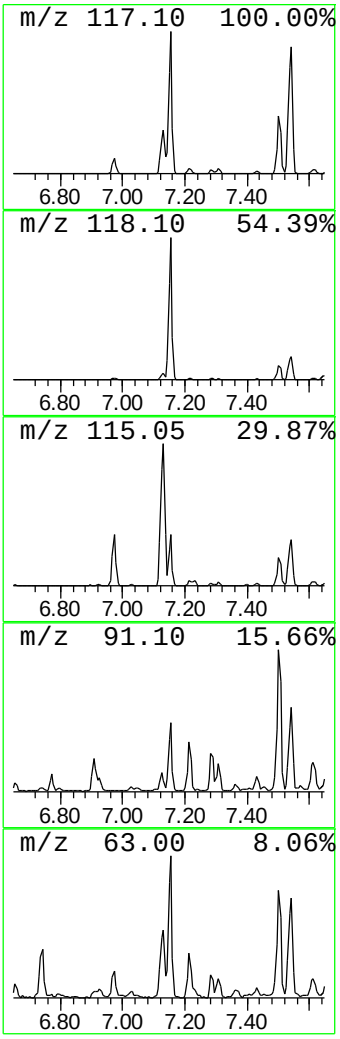
**********

Peak Number 3 Indane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.15 | 12.99 ng | 1047440 | 1,4-Dichlorobenzene-d4 | 6.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 90 |
| 2 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 74 |
| 3 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 64 |
| 4 | Benzene, 1,1'-(1,5-hexadiene-1,6... | 234 | C18H18 | 004439-45-6 | 53 |
| 5 | Benzene, 1,1'-(1-ethenyl-1,3-pro... | 222 | C17H18 | 061141-97-7 | 50 |



# Library Search Compound Report

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

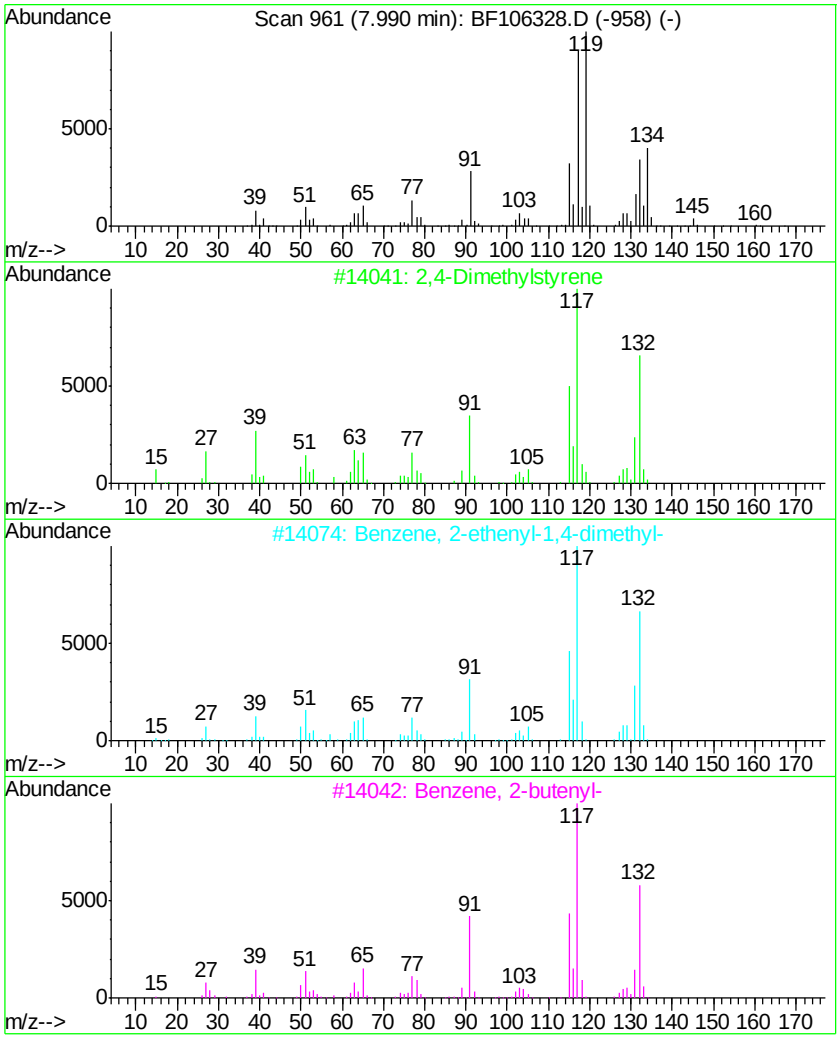
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

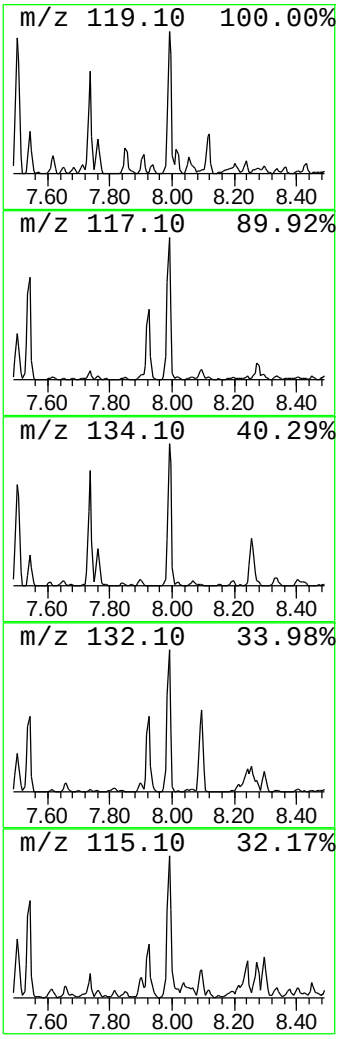
**********

Peak Number 4 2,4-Dimethylstyrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.99 | 18.02 ng | 2721620 | Naphthalene-d8 | 8.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Dimethylstyrene | 132 | C10H12 | 002234-20-0 | 86 |
| 2 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 80 |
| 3 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 64 |
| 4 | p-Cymene | 134 | C10H14 | 000099-87-6 | 50 |
| 5 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 50 |



Library Search Compound Report

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**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

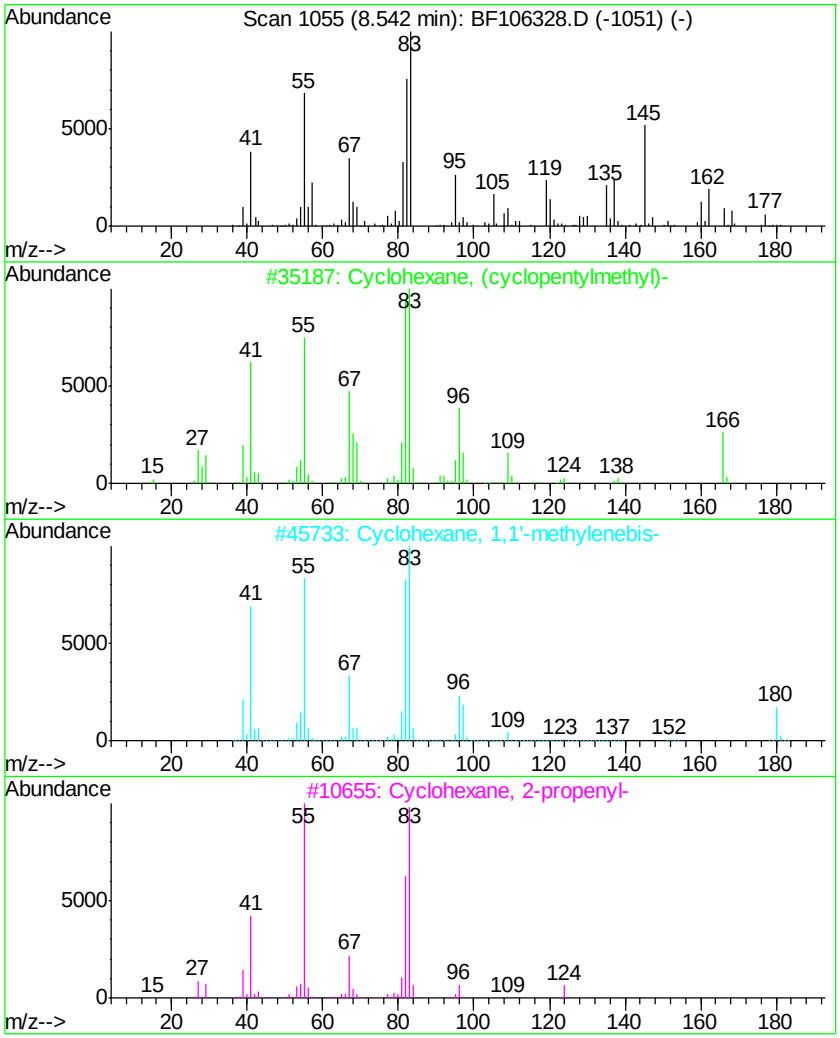
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

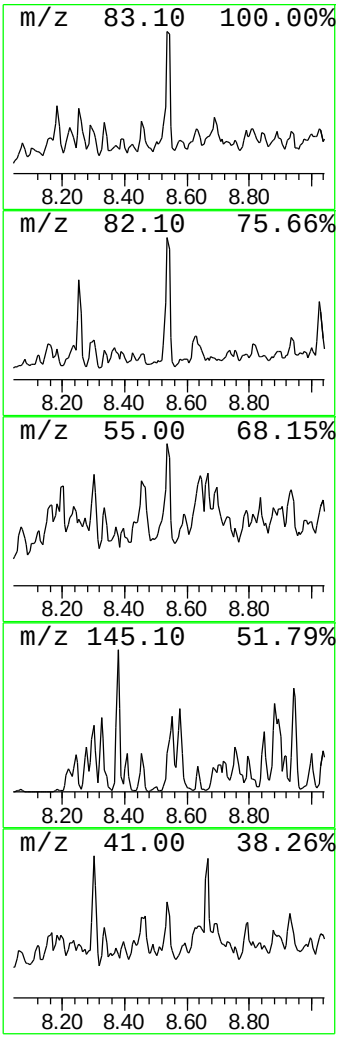
**********

Peak Number 5 unknown8.54 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.54 | 8.33 ng | 1257990 | Naphthalene-d8 | 8.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (cyclopentylmethyl)- | 166 | C12H22 | 004431-89-4 | 30 |
| 2 | Cyclohexane, 1,1'-methylenebis- | 180 | C13H24 | 003178-23-2 | 27 |
| 3 | Cyclohexane, 2-propenyl- | 124 | C9H16 | 002114-42-3 | 22 |
| 4 | Benzamide, o-(.beta.-hydroxyphen... | 241 | C15H15NO2 | 023966-60-1 | 22 |
| 5 | Cyclohexane, hexyl- | 168 | C12H24 | 004292-75-5 | 22 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061118\
Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

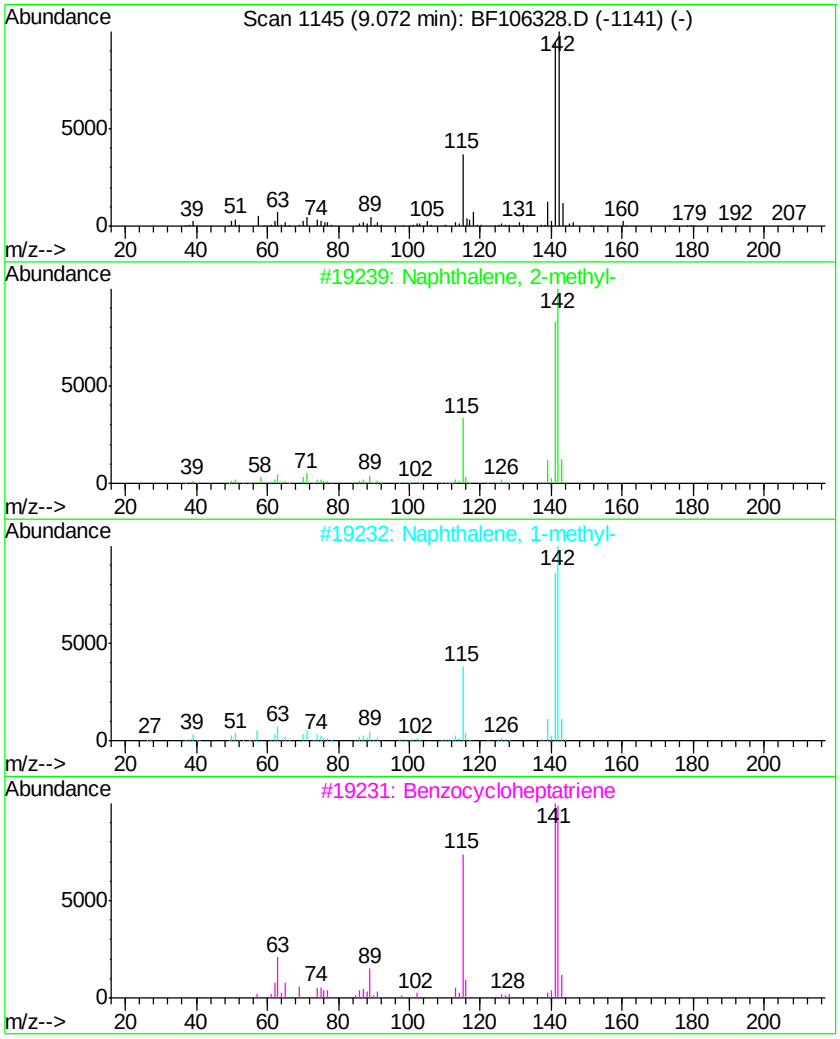
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

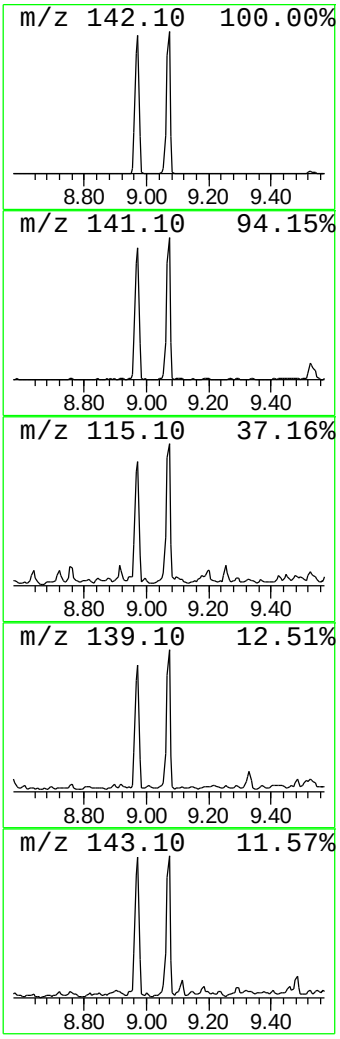
**********

Peak Number 6 Naphthalene, 1-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.07 | 15.31 ng | 2311720 | Naphthalene-d8 | 8.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 97 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 3 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 93 |
| 4 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 90 |
| 5 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 86 |



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Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

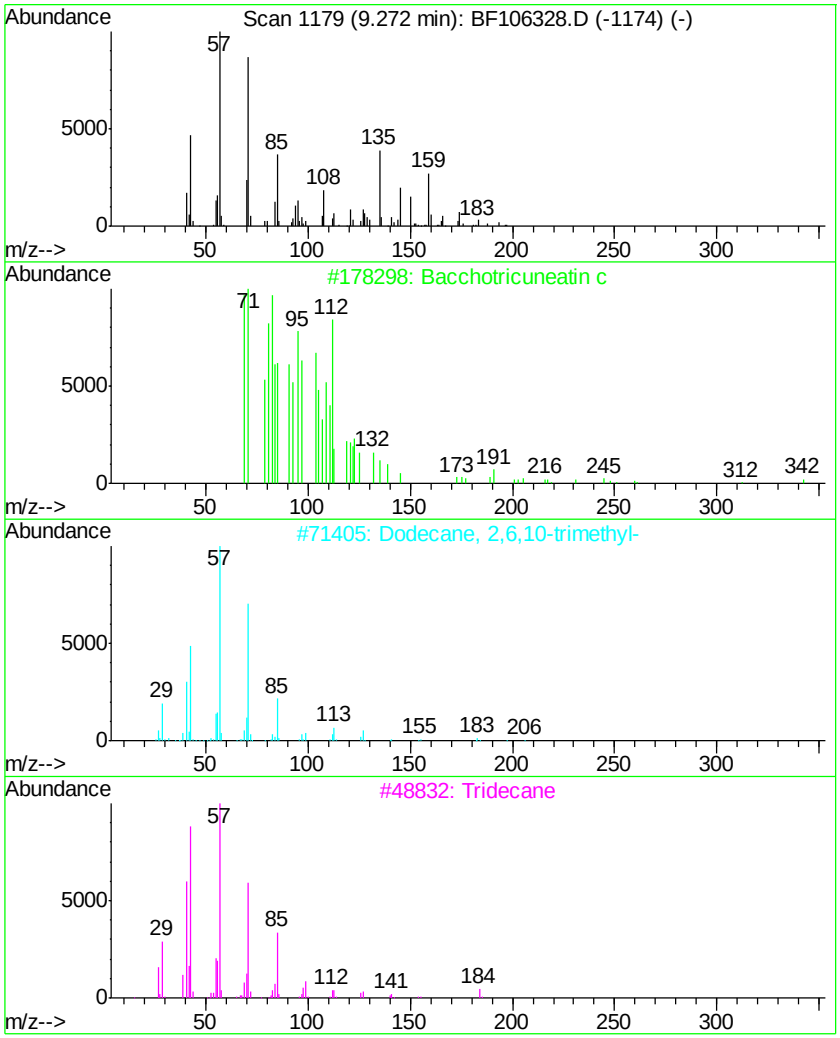
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

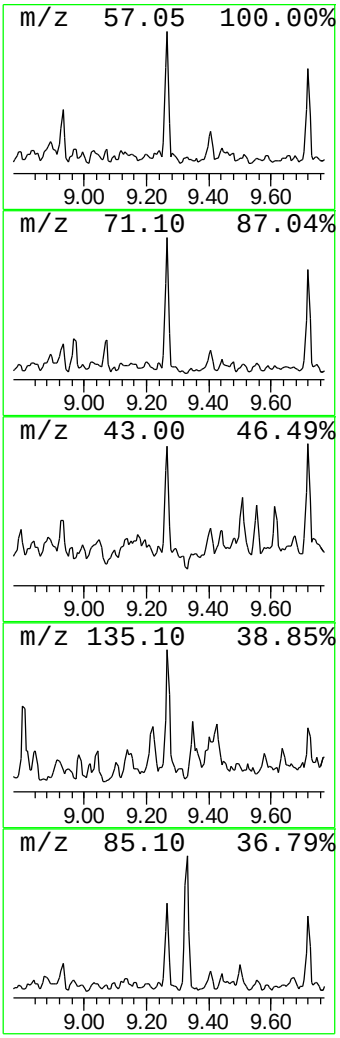
**********

Peak Number 7 Bacchotricuneatin c Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.27 | 16.18 ng | 1090110 | Acenaphthene-d10 | 10.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 72 |
| 2 | Dodecane, 2,6,10-trimethyl- | 212 | C15H32 | 003891-98-3 | 58 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 53 |
| 4 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 52 |
| 5 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 50 |



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Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

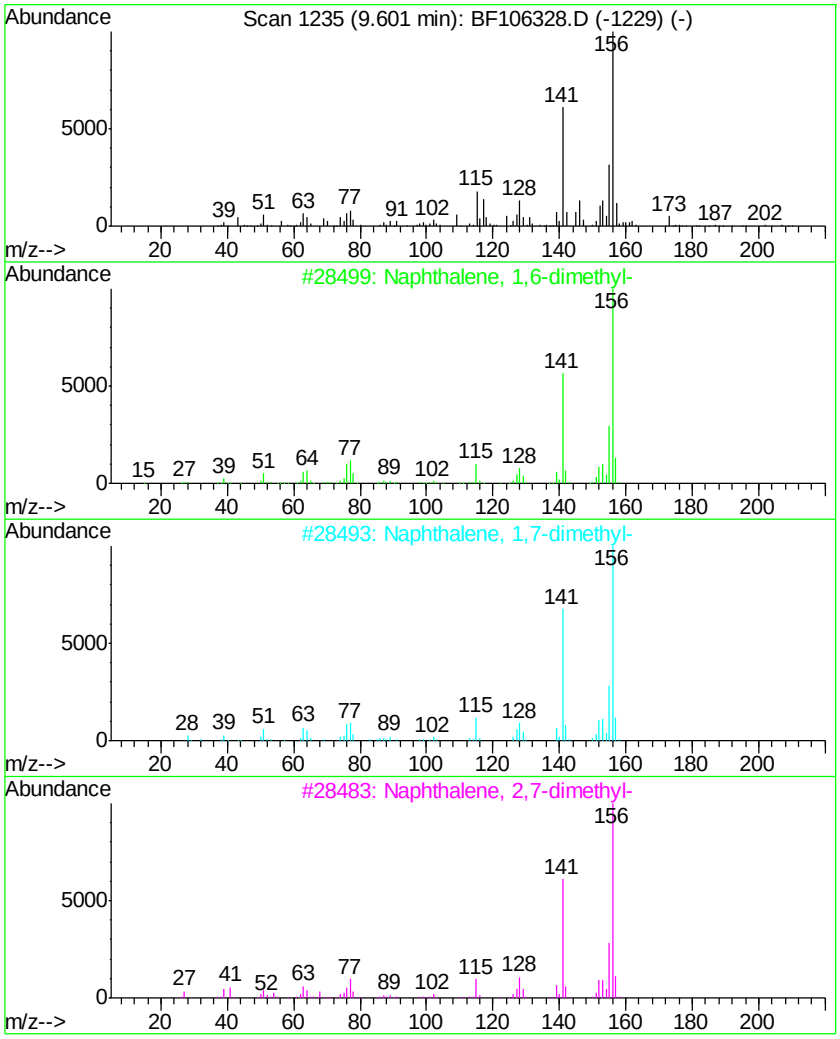
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

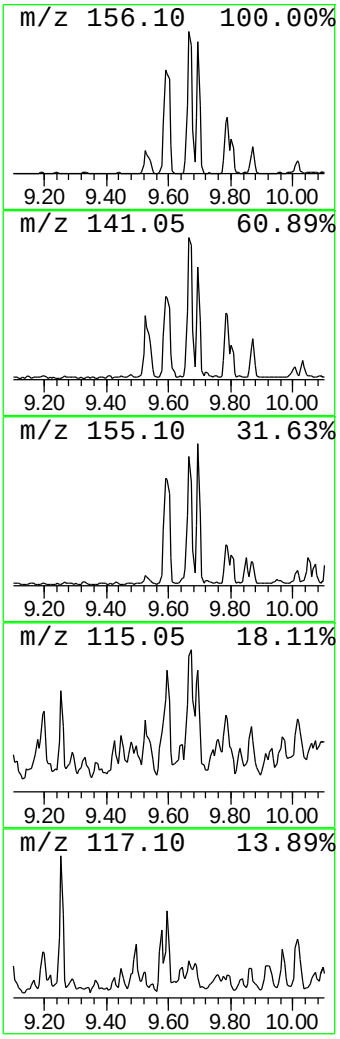
**********

Peak Number 8 Naphthalene, 1,6-dimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.60 | 17.39 ng | 1171230 | Acenaphthene-d10 | 10.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |
| 4 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 5 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 96 |



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Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.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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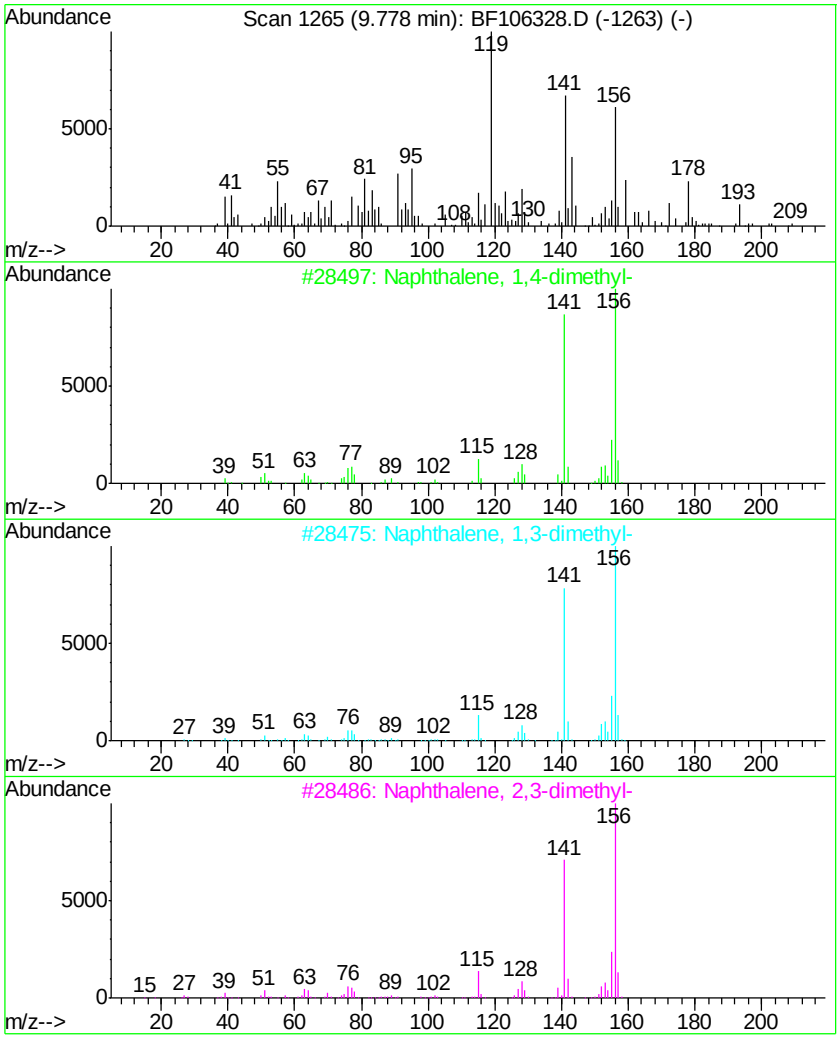
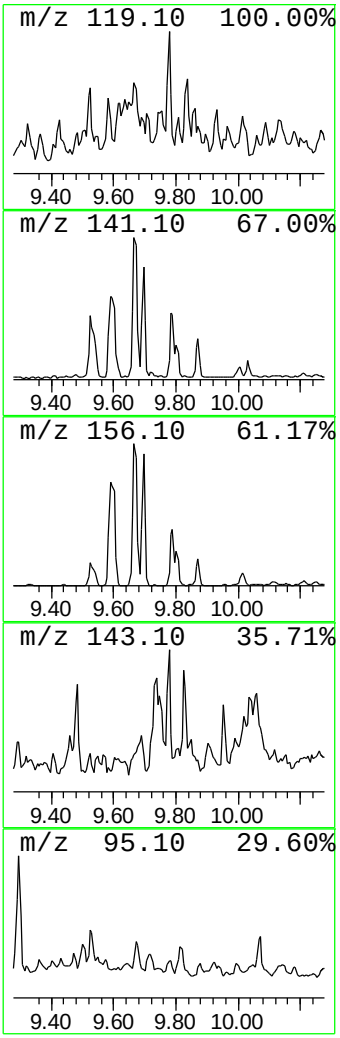
Peak Number 9 Naphthalene, 1,4-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.78 | 8.63 ng | 581312 | Acenaphthene-d10 | 10.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 96 |
| 2 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 3 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 96 |
| 4 | Naphthalene, 1,2-dimethyl- | 156 | C12H12 | 000573-98-8 | 94 |
| 5 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 92 |



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Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.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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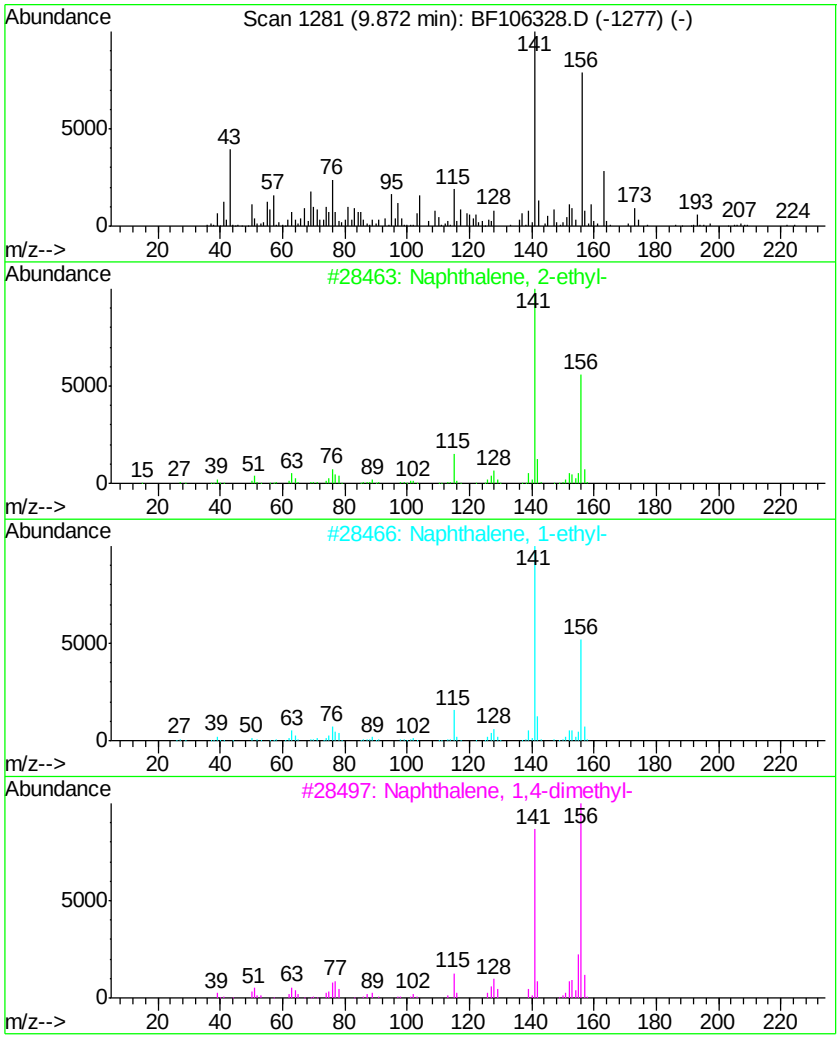
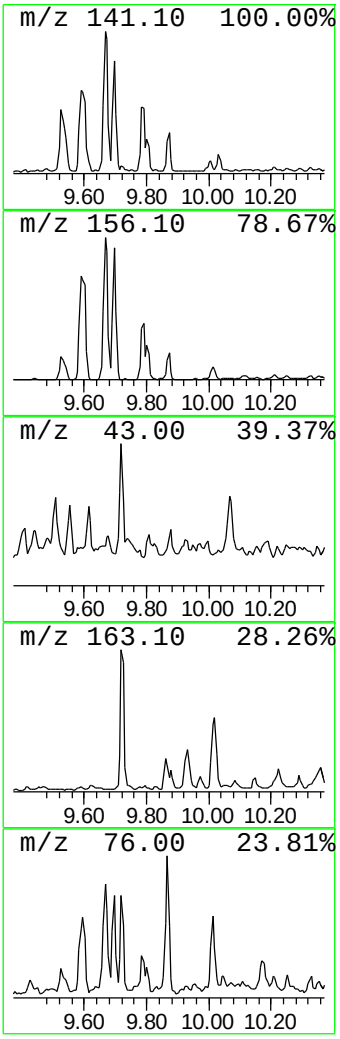
Peak Number 10 Naphthalene, 2-ethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.87 | 8.81 ng | 593301 | Acenaphthene-d10 | 10.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 94 |
| 2 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 93 |
| 3 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 68 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 62 |
| 5 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 58 |



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Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

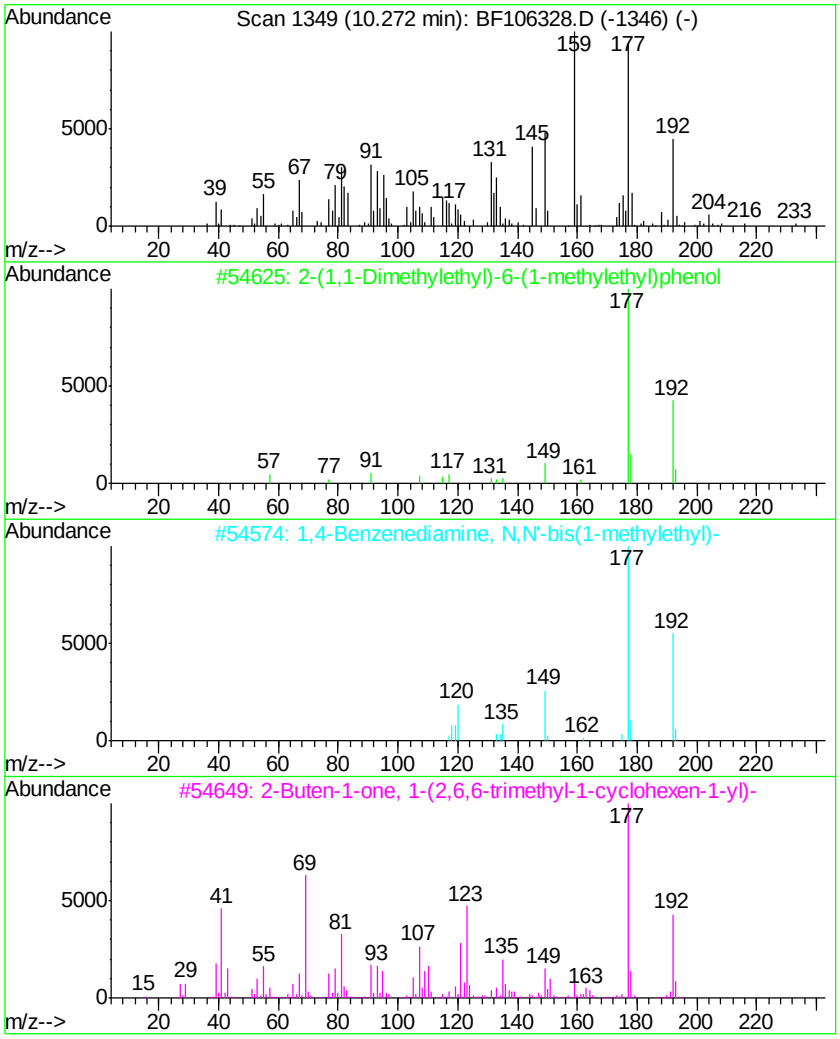
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

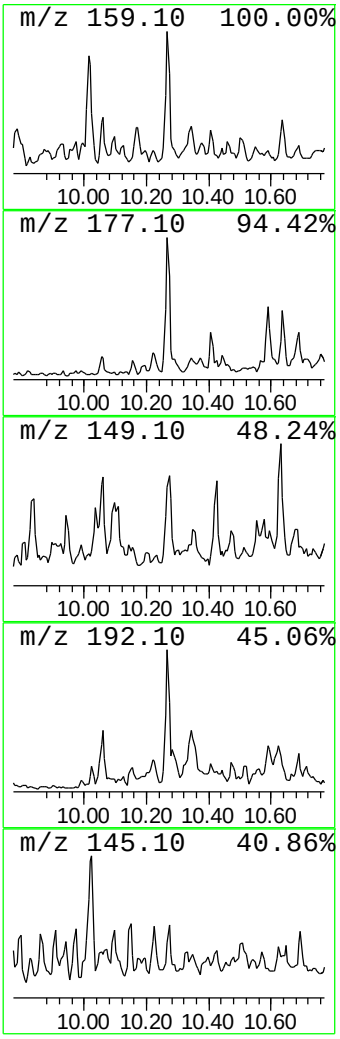
**********

Peak Number 11 unknown10.27 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.27 | 7.61 ng | 512299 | Acenaphthene-d10 | 10.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-(1,1-Dimethylethyl)-6-(1-methy... | 192 | C13H20O | 022791-95-3 | 38 |
| 2 | 1,4-Benzenediamine, N,N'-bis(1-m... | 192 | C12H20N2 | 004251-01-8 | 38 |
| 3 | 2-Buten-1-one, 1-(2,6,6-trimethy... | 192 | C13H20O | 035044-68-9 | 35 |
| 4 | 1-(4-Methoxymethyl-2,6-dimethylp... | 192 | C12H16O2 | 1000202-02-2 | 35 |
| 5 | 1-Dimethylvinylsilyloxy-3-methyl... | 192 | C11H16OSi | 1000307-91-6 | 35 |



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Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.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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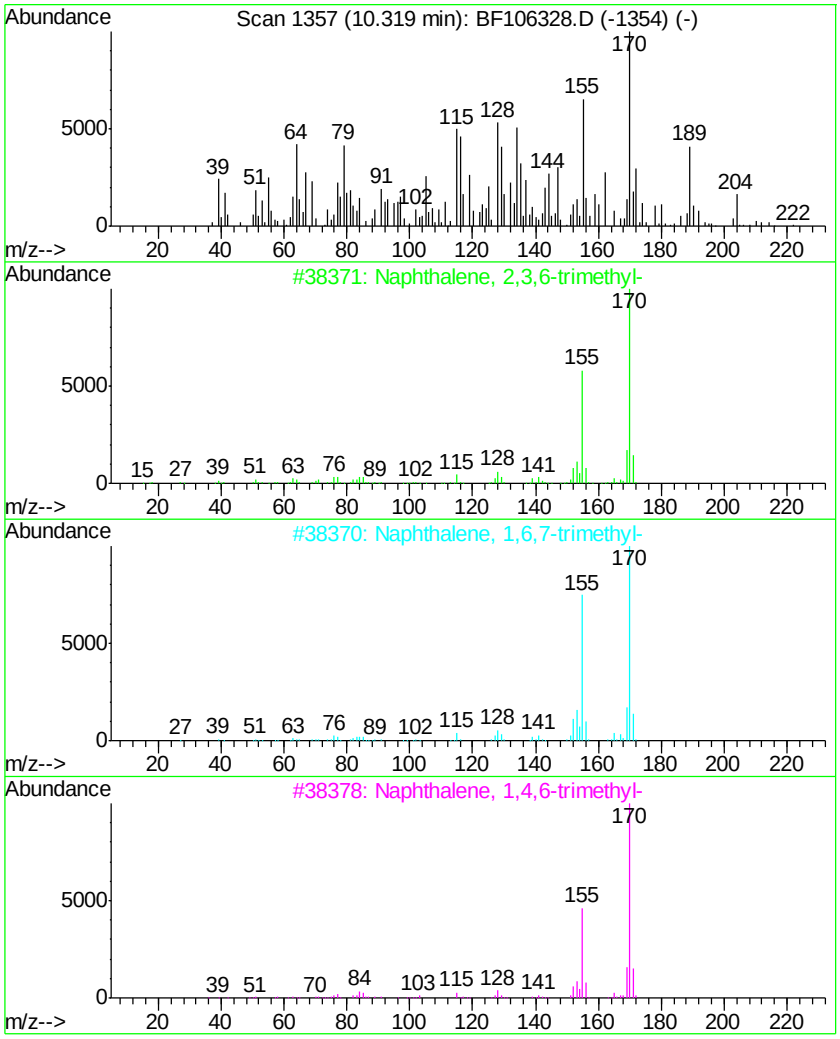
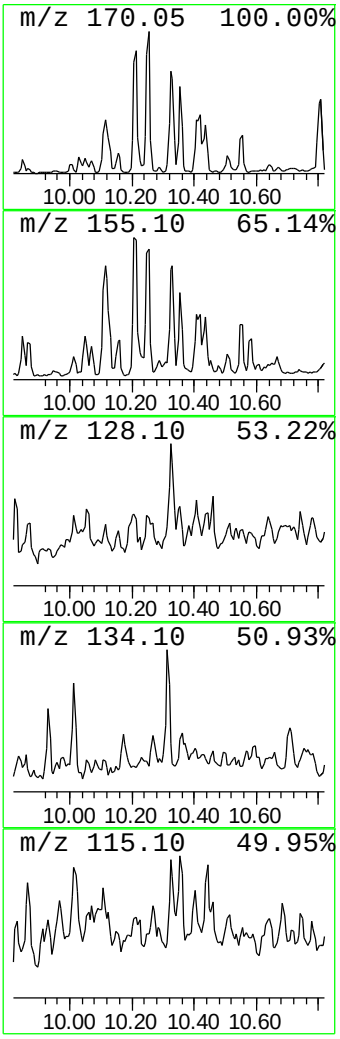
Peak Number 12 Naphthalene, 2,3,6-trimethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.32 | 7.80 ng | 525435 | Acenaphthene-d10 | 10.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 94 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 94 |
| 3 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 90 |
| 4 | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14 | 1000187-78-5 | 60 |
| 5 | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14 | 1000294-91-1 | 58 |



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Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.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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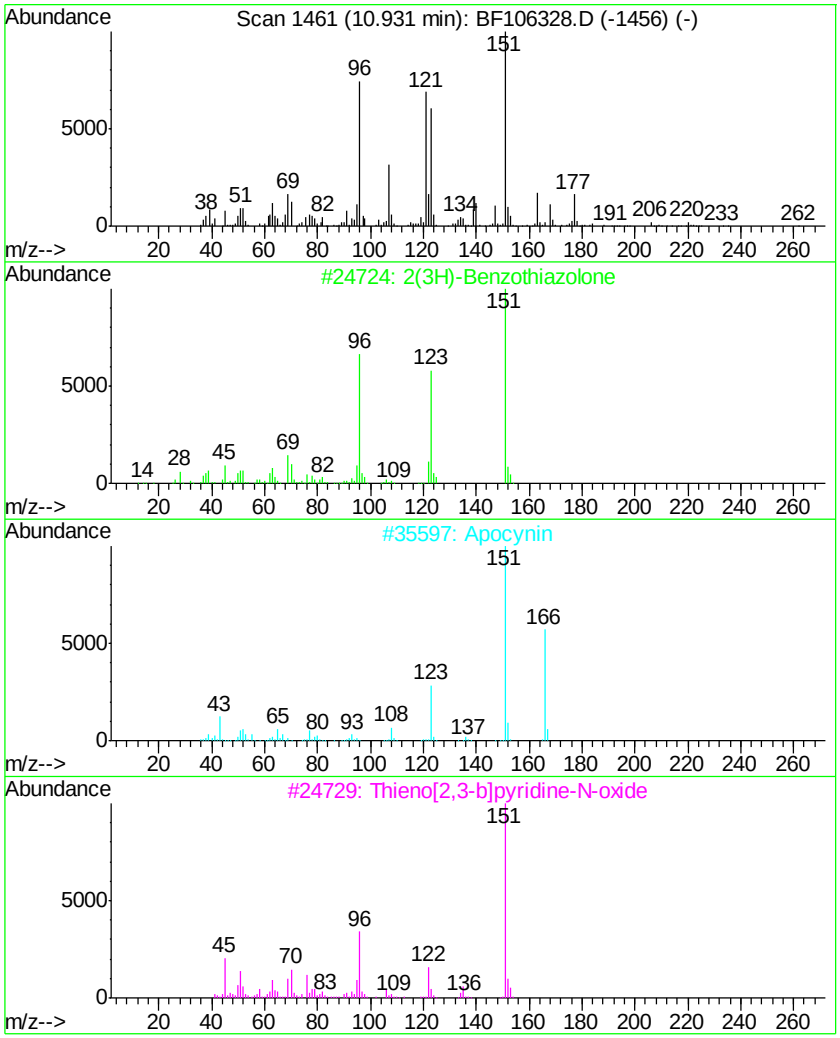
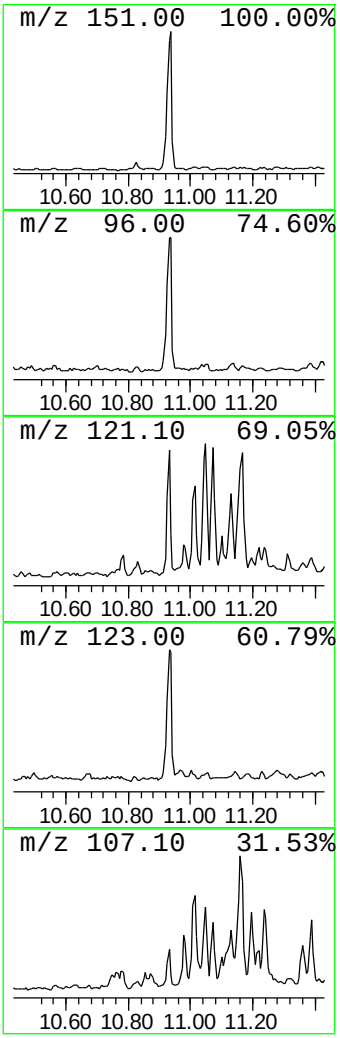
Peak Number 13 2(3H)-Benzothiazolone Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.93 | 18.98 ng | 1071910 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2(3H)-Benzothiazolone | 151 | C7H5NOS | 000934-34-9 | 93 |
| 2 | Apocynin | 166 | C9H10O3 | 000498-02-2 | 38 |
| 3 | Thieno[2,3-b]pyridine-N-oxide | 151 | C7H5NOS | 025557-50-0 | 30 |
| 4 | 1,2-Benzisothiazol-3(2H)-one | 151 | C7H5NOS | 002634-33-5 | 27 |
| 5 | Isosafrole glycol, diacetyl | 280 | C14H16O6 | 1000378-93-2 | 27 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061118\
Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.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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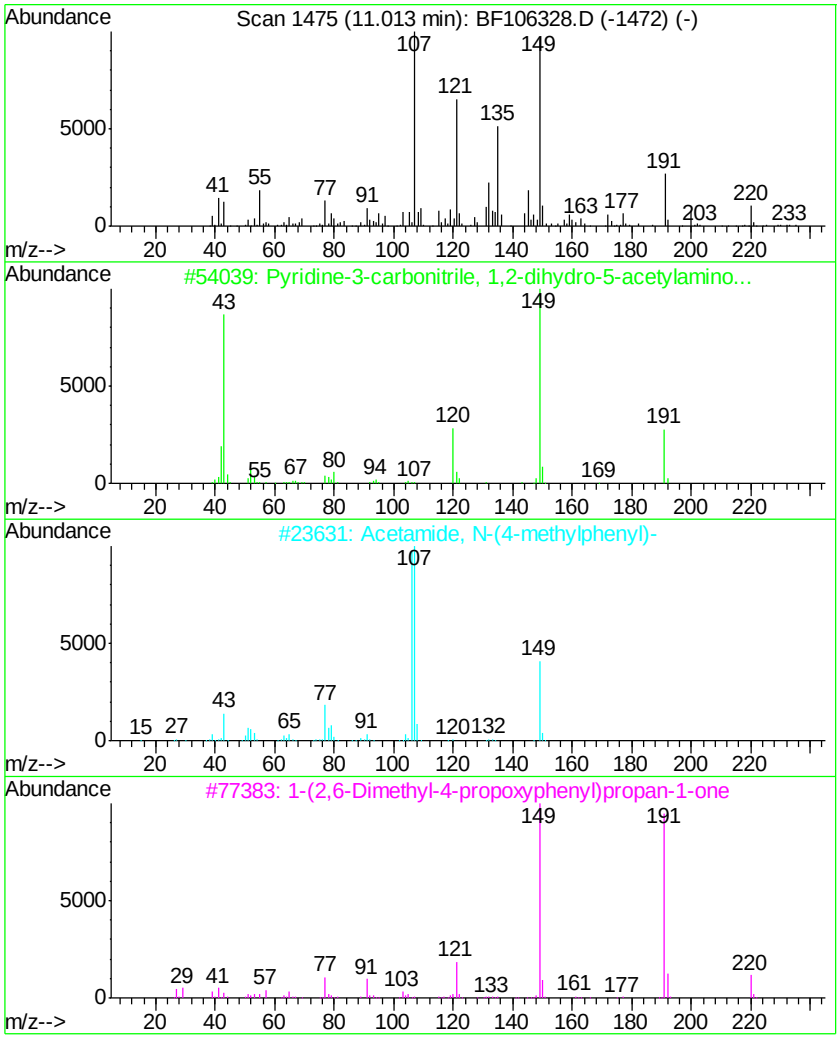
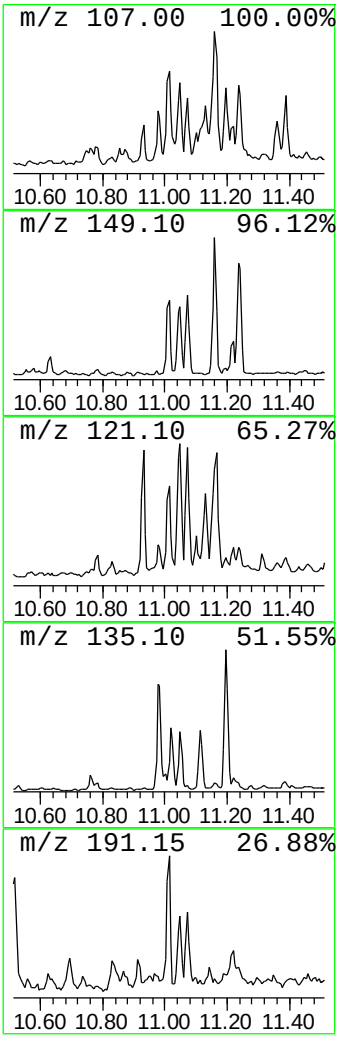
Peak Number 15 unknown11.01 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.01 | 12.50 ng | 706083 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyridine-3-carbonitrile, 1,2-dih... | 191 | C9H9N3O2 | 220098-92-0 | 27 |
| 2 | Acetamide, N-(4-methylphenyl)- | 149 | C9H11NO | 000103-89-9 | 27 |
| 3 | 1-(2,6-Dimethyl-4-propoxyphenyl)... | 220 | C14H20O2 | 1000190-22-3 | 25 |
| 4 | 4-Methyl-2-tert-octylphenol | 220 | C15H24O | 004979-46-8 | 22 |
| 5 | Tricyclo[4.3.1.1(3,8)]undecane-1... | 208 | C13H20O2 | 031083-60-0 | 22 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061118\
Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.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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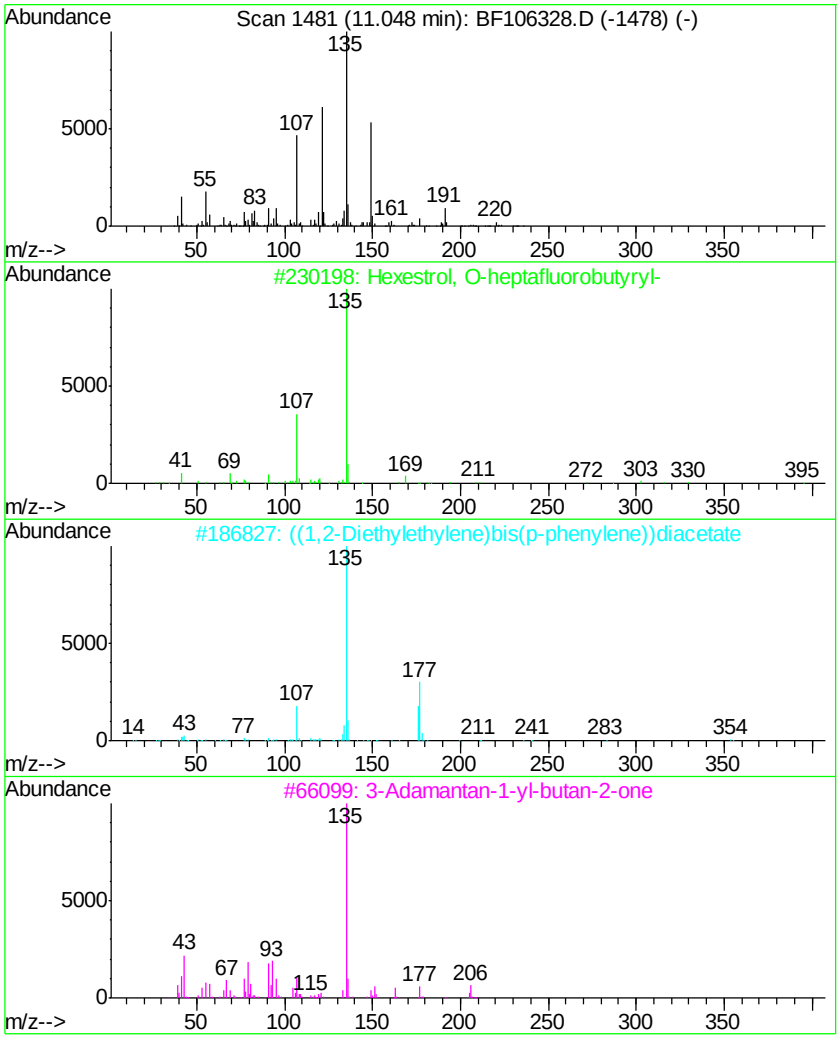
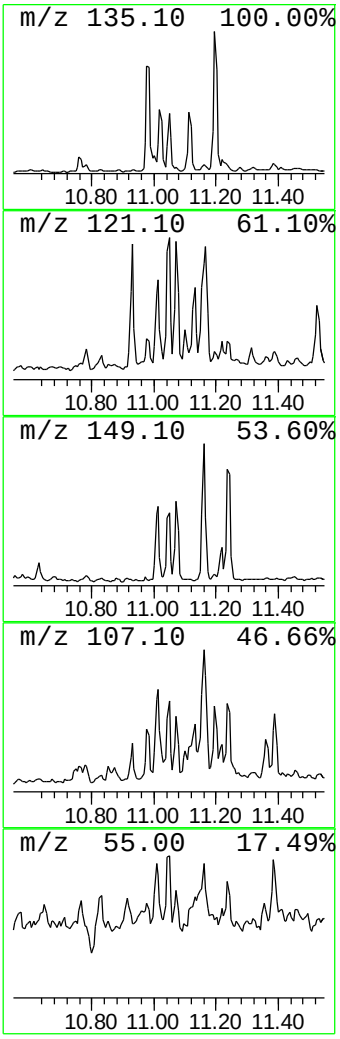
Peak Number 16 unknown11.05 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.05 | 10.54 ng | 594903 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexestrol, O-heptafluorobutyryl- | 466 | C22H21F7O3 | 1000365-31-9 | 47 |
| 2 | ((1,2-Diethylethylene)bis(p-phen... | 354 | C22H26O4 | 004547-76-6 | 47 |
| 3 | 3-Adamantan-1-yl-butan-2-one | 206 | C14H22O | 1000300-40-8 | 43 |
| 4 | 1-Isobutyladamantane | 192 | C14H24 | 027364-16-5 | 38 |
| 5 | Benzamide, 2-methoxy-N-allyl- | 191 | C11H13NO2 | 1000339-10-5 | 38 |



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Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.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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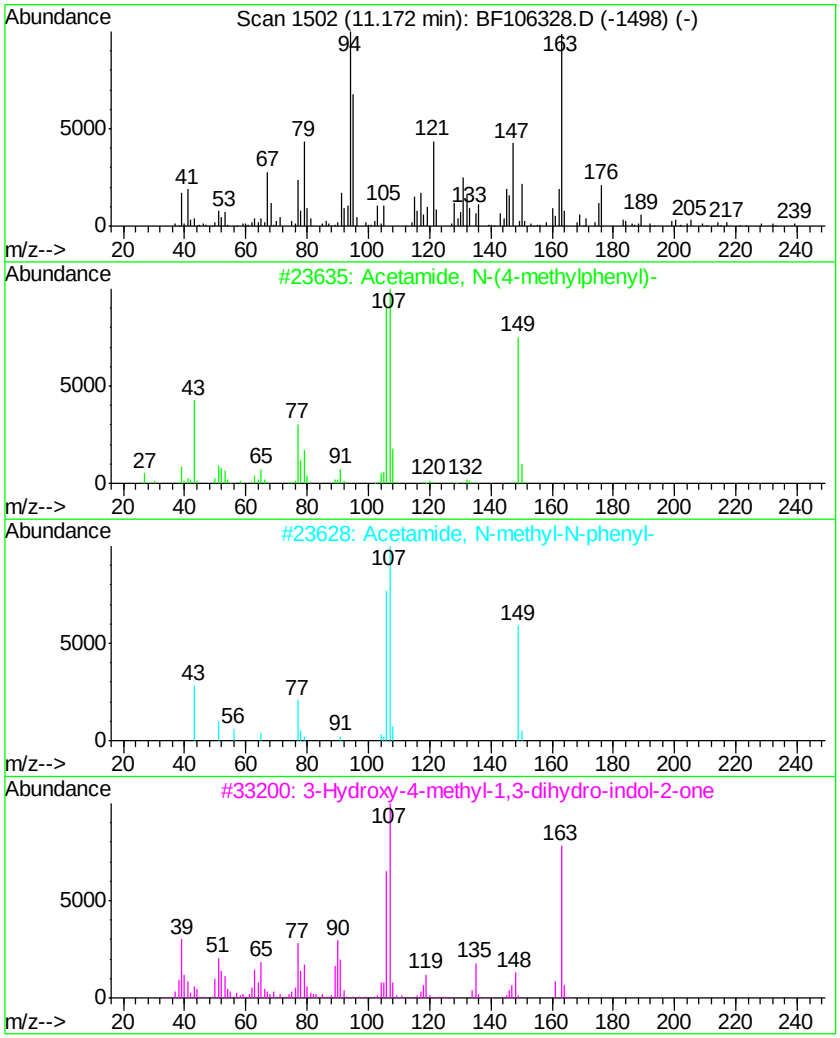
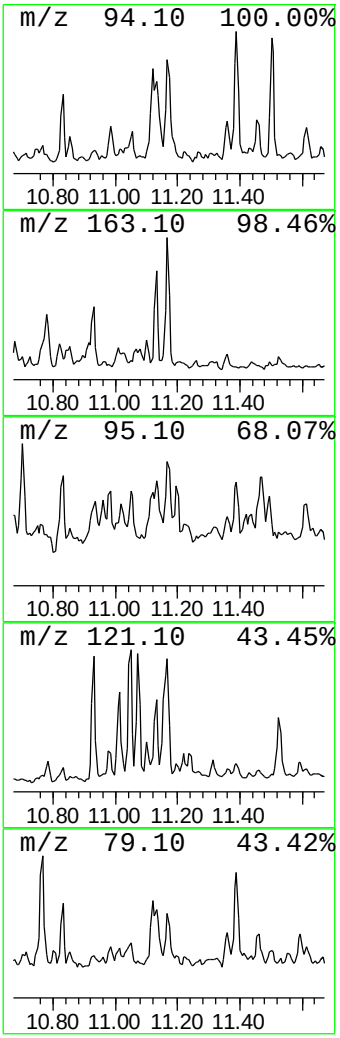
Peak Number 17 unknown11.17 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.17 | 11.32 ng | 639335 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetamide, N-(4-methylphenyl)- | 149 | C9H11NO | 000103-89-9 | 25 |
| 2 | Acetamide, N-methyl-N-phenyl- | 149 | C9H11NO | 000579-10-2 | 22 |
| 3 | 3-Hydroxy-4-methyl-1,3-dihydro-i... | 163 | C9H9NO2 | 1000274-99-7 | 22 |
| 4 | 2-Methyl-1-phenyl-1-butanol | 164 | C11H16O | 003968-86-3 | 15 |
| 5 | Acetamide, N-(2,3-dimethylphenyl)- | 163 | C10H13NO | 000134-98-5 | 11 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061118\
Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

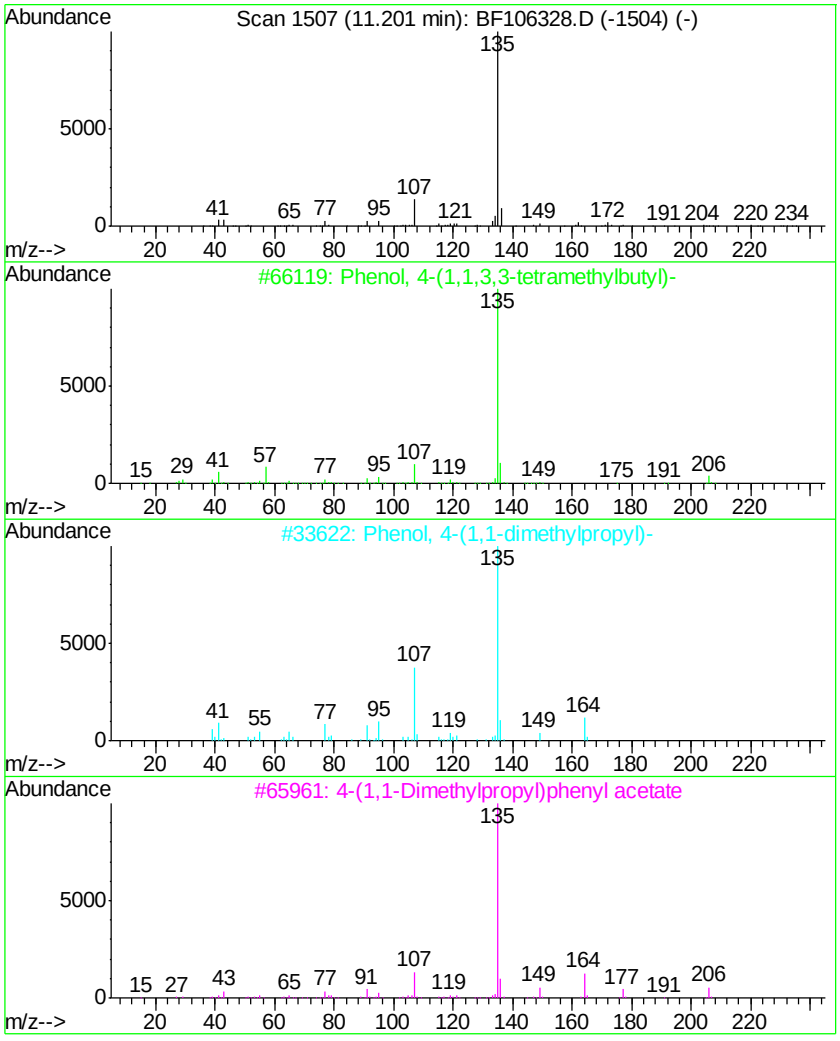
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

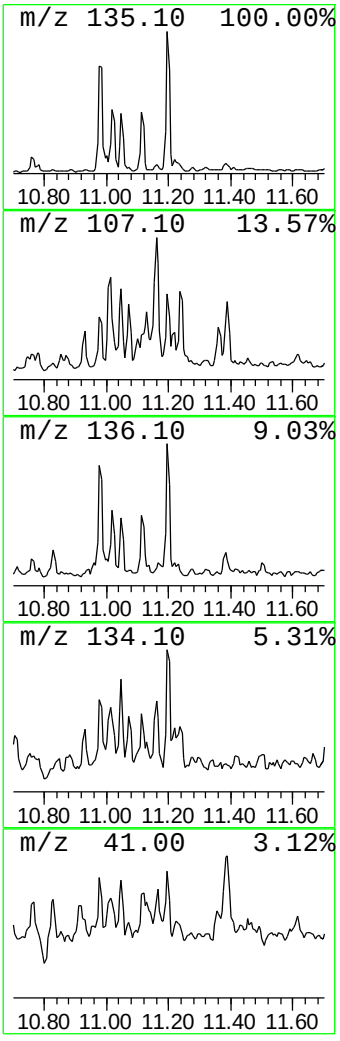
**********

Peak Number 18 Phenol, 4-(1,1,3,3-tetramet... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.20 | 8.93 ng | 504511 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4-(1,1,3,3-tetramethylbu... | 206 | C14H22O | 000140-66-9 | 78 |
| 2 | Phenol, 4-(1,1-dimethylpropyl)- | 164 | C11H16O | 000080-46-6 | 78 |
| 3 | 4-(1,1-Dimethylpropyl)phenyl ace... | 206 | C13H18O2 | 1000373-45-3 | 64 |
| 4 | Hexestrol, O-trifluoroacetyl- | 366 | C20H21F3O3 | 1000365-31-7 | 50 |
| 5 | ((1,2-Diethylethylene)bis(p-phen... | 354 | C22H26O4 | 004547-76-6 | 50 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061118\
Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

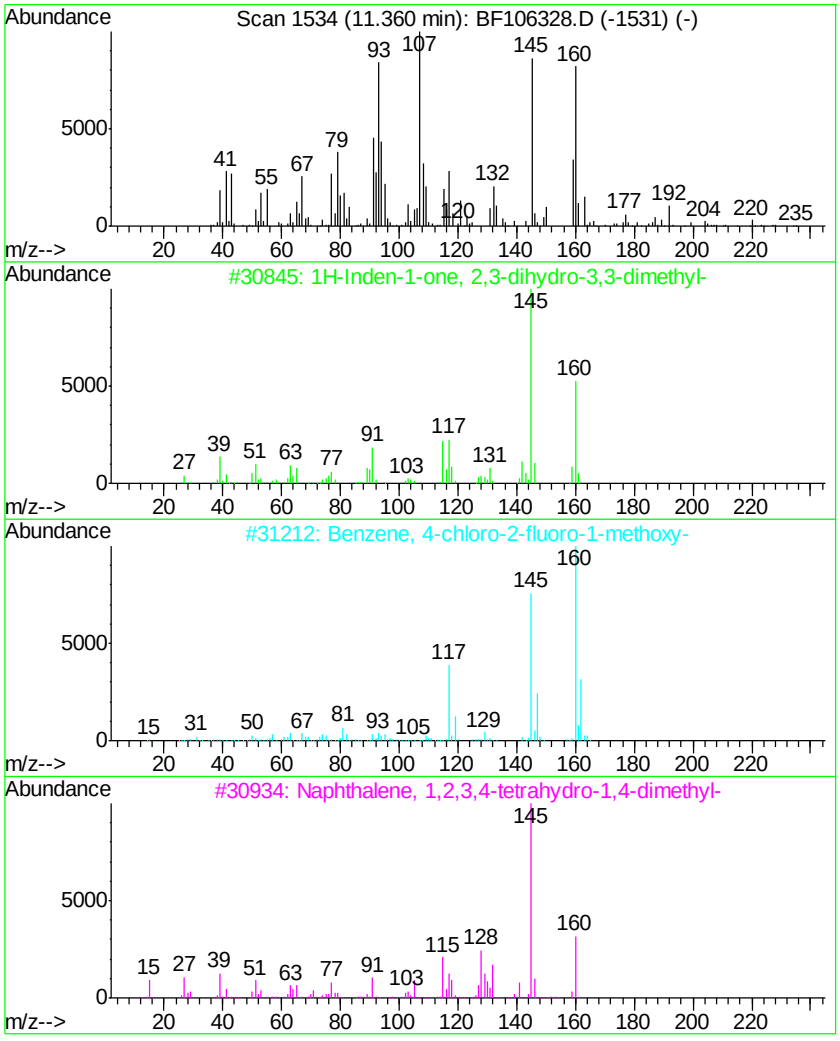
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

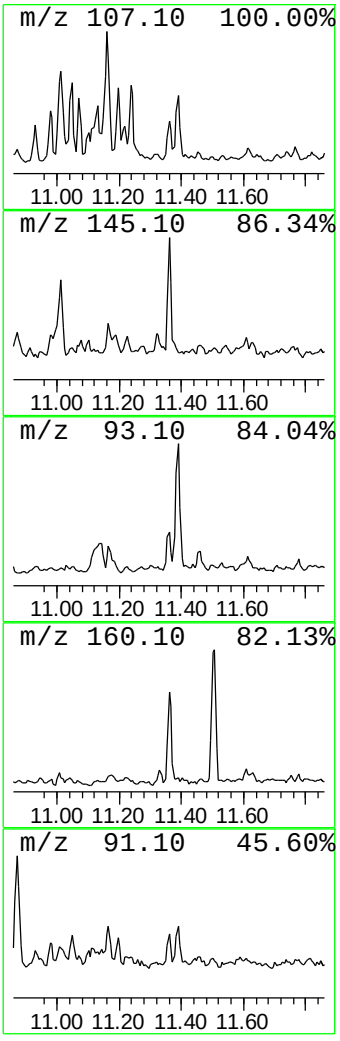
**********

Peak Number 19 unknown11.36 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.36 | 8.37 ng | 472784 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Inden-1-one, 2,3-dihydro-3,3-... | 160 | C11H12O | 026465-81-6 | 38 |
| 2 | Benzene, 4-chloro-2-fluoro-1-met... | 160 | C7H6ClFO | 000452-09-5 | 27 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 004175-54-6 | 22 |
| 4 | 1H-Inden-1-one, 2,3-dihydro-5,7-... | 160 | C11H12O | 006682-69-5 | 20 |
| 5 | Spiro[tricyclo[3.3.1.1(3,7)]deca... | 204 | C13H16O2 | 126255-70-7 | 15 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061118\
Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

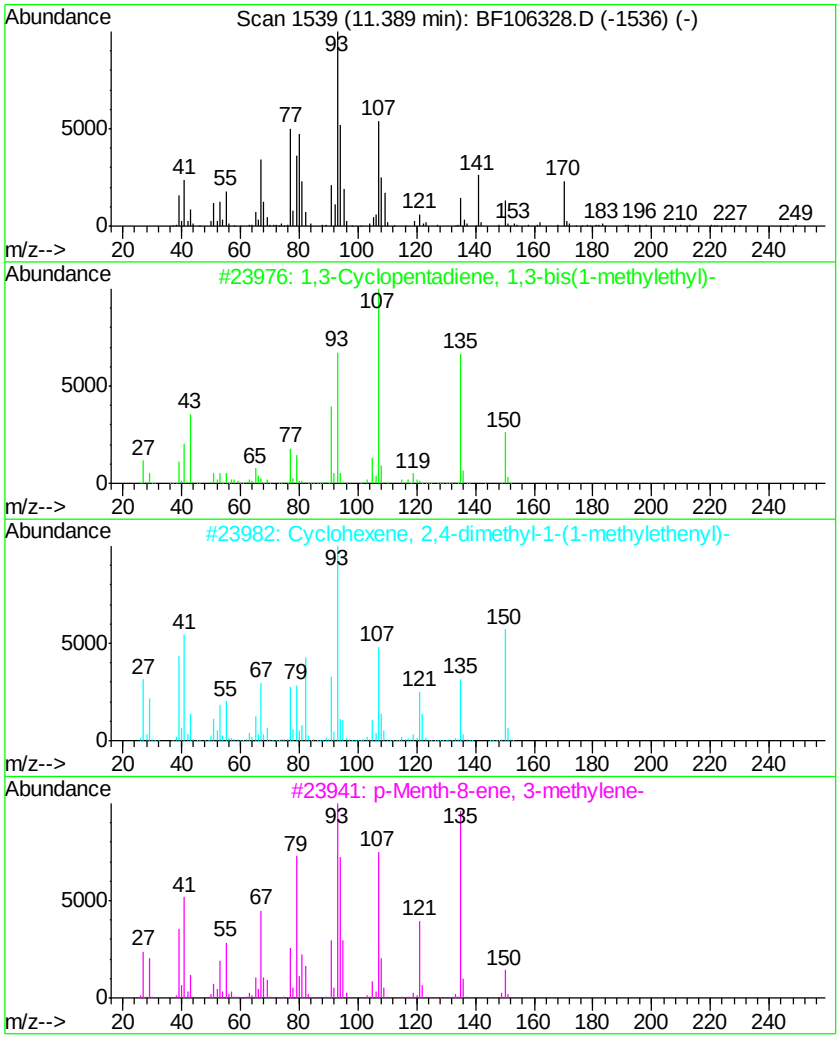
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

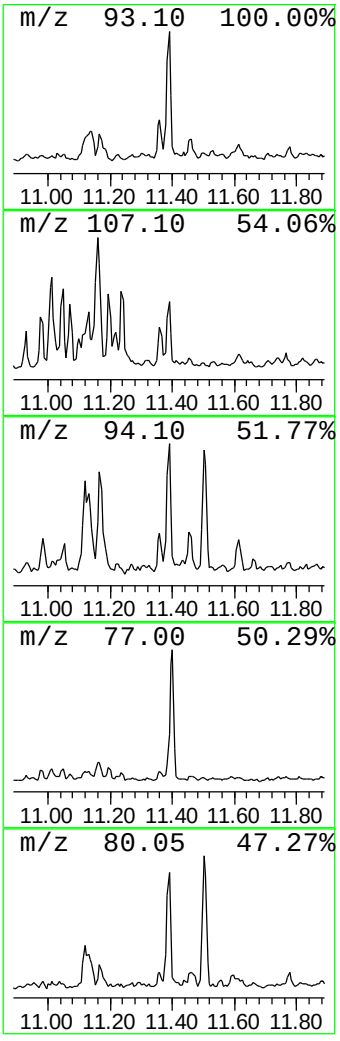
**********

Peak Number 20 unknown Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.39 | 23.35 ng | 1318290 | Phenanthrene-d10 | 11.51 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Cyclopentadiene, 1,3-bis(1-m... | 150 | C11H18 | 123278-27-3 | 47 |
| 2 | Cyclohexene, 2,4-dimethyl-1-(1-m... | 150 | C11H18 | 056763-60-1 | 38 |
| 3 | p-Menth-8-ene, 3-methylene- | 150 | C11H18 | 1000151-25-7 | 35 |
| 4 | Cyclopropane, 1,1-dimethyl-2-(3-... | 136 | C10H16 | 068998-21-0 | 27 |
| 5 | Bicyclo[3.1.1]hept-3-en-2-one, 4... | 150 | C10H14O | 001196-01-6 | 25 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF061118\
Data File : BF106328.D
Acq On : 12 Jun 2018 7:16
Operator : JU/SJ
Sample : J3309-06
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| unknown6.74 | 6.74 | 47.3 | ng | 3810670 | 1 | 6.97 | 1612510 | 20.0 |
| Indane | 7.15 | 13.0 | ng | 1047440 | 1 | 6.97 | 1612510 | 20.0 |
| 2,4-Dimethylstyrene | 7.99 | 18.0 | ng | 2721620 | 2 | 8.25 | 3020430 | 20.0 |
| unknown8.54 | 8.54 | 8.3 | ng | 1257990 | 2 | 8.25 | 3020430 | 20.0 |
| Naphthalene, 1-me... | 9.07 | 15.3 | ng | 2311720 | 2 | 8.25 | 3020430 | 20.0 |
| Bacchotricuneatin c | 9.27 | 16.2 | ng | 1090110 | 3 | 10.01 | 1347190 | 20.0 |
| Naphthalene, 1,6-... | 9.60 | 17.4 | ng | 1171230 | 3 | 10.01 | 1347190 | 20.0 |
| Naphthalene, 1,4-... | 9.78 | 8.6 | ng | 581312 | 3 | 10.01 | 1347190 | 20.0 |
| Naphthalene, 2-et... | 9.87 | 8.8 | ng | 593301 | 3 | 10.01 | 1347190 | 20.0 |
| unknown10.27 | 10.27 | 7.6 | ng | 512299 | 3 | 10.01 | 1347190 | 20.0 |
| Naphthalene, 2,3,... | 10.32 | 7.8 | ng | 525435 | 3 | 10.01 | 1347190 | 20.0 |
| 2(3H)-Benzothiazo... | 10.93 | 19.0 | ng | 1071910 | 4 | 11.51 | 1129330 | 20.0 |
| unknown11.01 | 11.01 | 12.5 | ng | 706083 | 4 | 11.51 | 1129330 | 20.0 |
| unknown11.05 | 11.05 | 10.5 | ng | 594903 | 4 | 11.51 | 1129330 | 20.0 |
| unknown11.17 | 11.17 | 11.3 | ng | 639335 | 4 | 11.51 | 1129330 | 20.0 |
| Phenol, 4-(1,1,3,... | 11.20 | 8.9 | ng | 504511 | 4 | 11.51 | 1129330 | 20.0 |
| unknown11.36 | 11.36 | 8.4 | ng | 472784 | 4 | 11.51 | 1129330 | 20.0 |
| unknown | 11.39 | 23.4 | ng | 1318290 | 4 | 11.51 | 1129330 | 20.0 |