|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SNR = 20 dBM | Matlab | | Python | |
| Activity Statistic | Average | Cumulants (First-order) | Average | Cumulants (First-order) |
| 0.1 | 0.9017 | 0.9204 | 0.9265 | 0.9407 |
| 0.2 | 0.9028 | 0.9165 | 0.8847 | 0.8975 |
| 0.3 | 0.9030 | 0.9175 | 0.8463 | 0.8581 |
| 0.4 | 0.9045 | 0.9173 | 0.8102 | 0.8206 |
| 0.5 | 0.9015 | 0.9173 | 0.7768 | 0.7863 |
| 0.6 | 0.8971 | 0.9192 | 0.7433 | 0.7538 |
| 0.7 | 0.9038 | 0.9148 | 0.7110 | 0.7196 |
| 0.8 | 0.9082 | 0.9189 | 0.6797 | 0.6871 |
| 0.9 | 0.9098 | 0.9155 | 0.6406 | 0.6470 |

Conventional

Predictive

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SNR = 20 dBM | MATLAB | | Python | |
| Activity Statistic | Average | Cumulants (First-order) | Average | Cumulants (First-order) |
| 0.1 | 0.9877 | 0.9897 | 0.9681 | 0.9692 |
| 0.2 | 0.9878 | 0.9894 | 0.9382 | 0.9658 |
| 0.3 | 0.9882 | 0.9895 | 0.9183 | 0.9645 |
| 0.4 | 0.9859 | 0.98945 | 0.9117 | 0.9715 |
| 0.5 | 0.9857 | 0.9894 | 0.9046 | 0.9707 |
| 0.6 | 0.9877 | 0.9896 | 0.9061 | 0.9689 |
| 0.7 | 0.9879 | 0.9893 | 0.9222 | 0.9715 |
| 0.8 | 0.9869 | 0.9894 | 0.9370 | 0.9764 |
| 0.9 | 0.9880 | 0.9895 | 0.9685 | 0.9781 |