

## **Appendix RF Test Data for LTE Band 2**

**Company:** : SIMFINITY COMPANY LIMITED

**EUT** : MIFI

**Model Number** : U6

**FCC ID** : 2BSRS-U6

**Report No.** : CTA25100901302

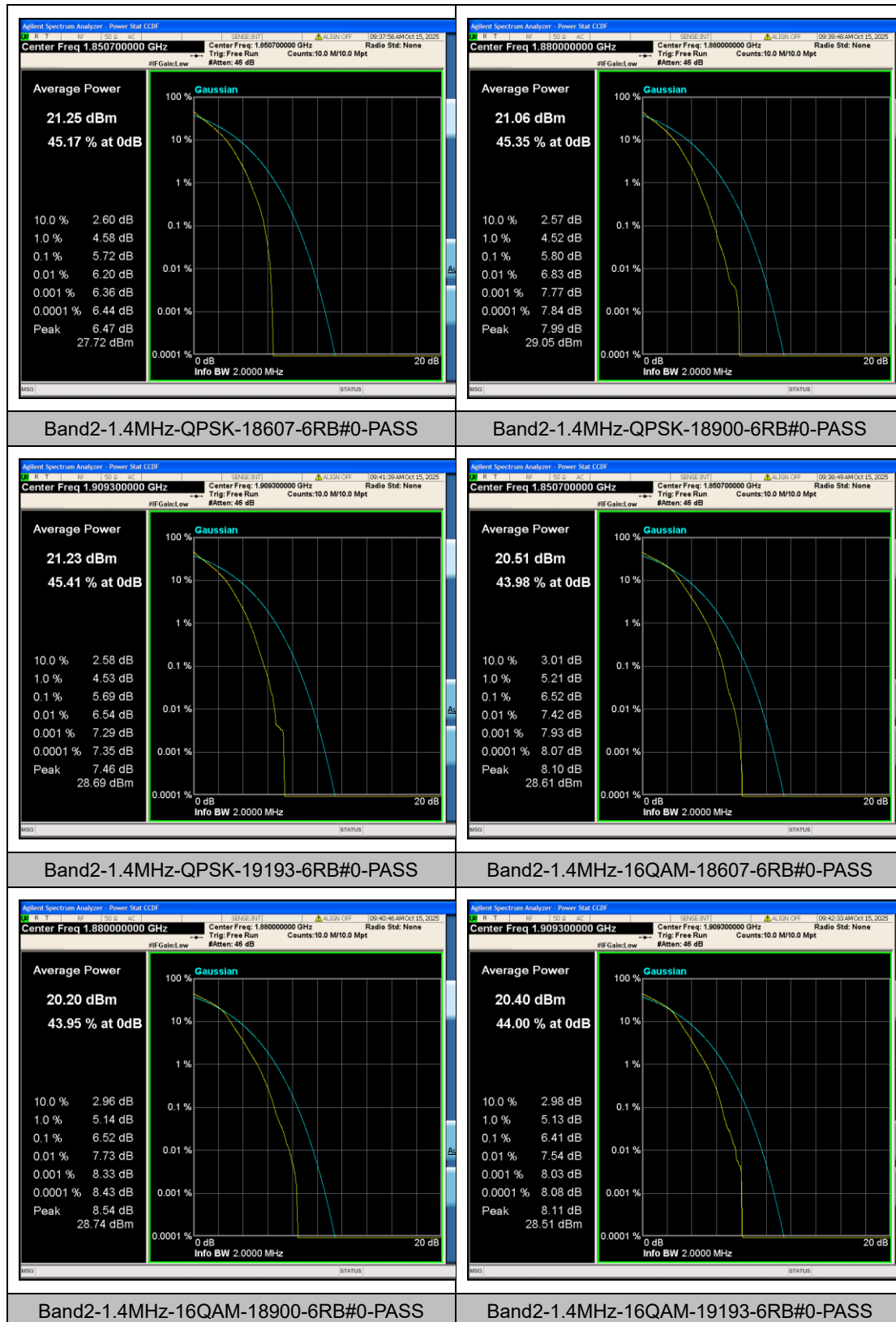
**Reviewed By** : Eric Wang

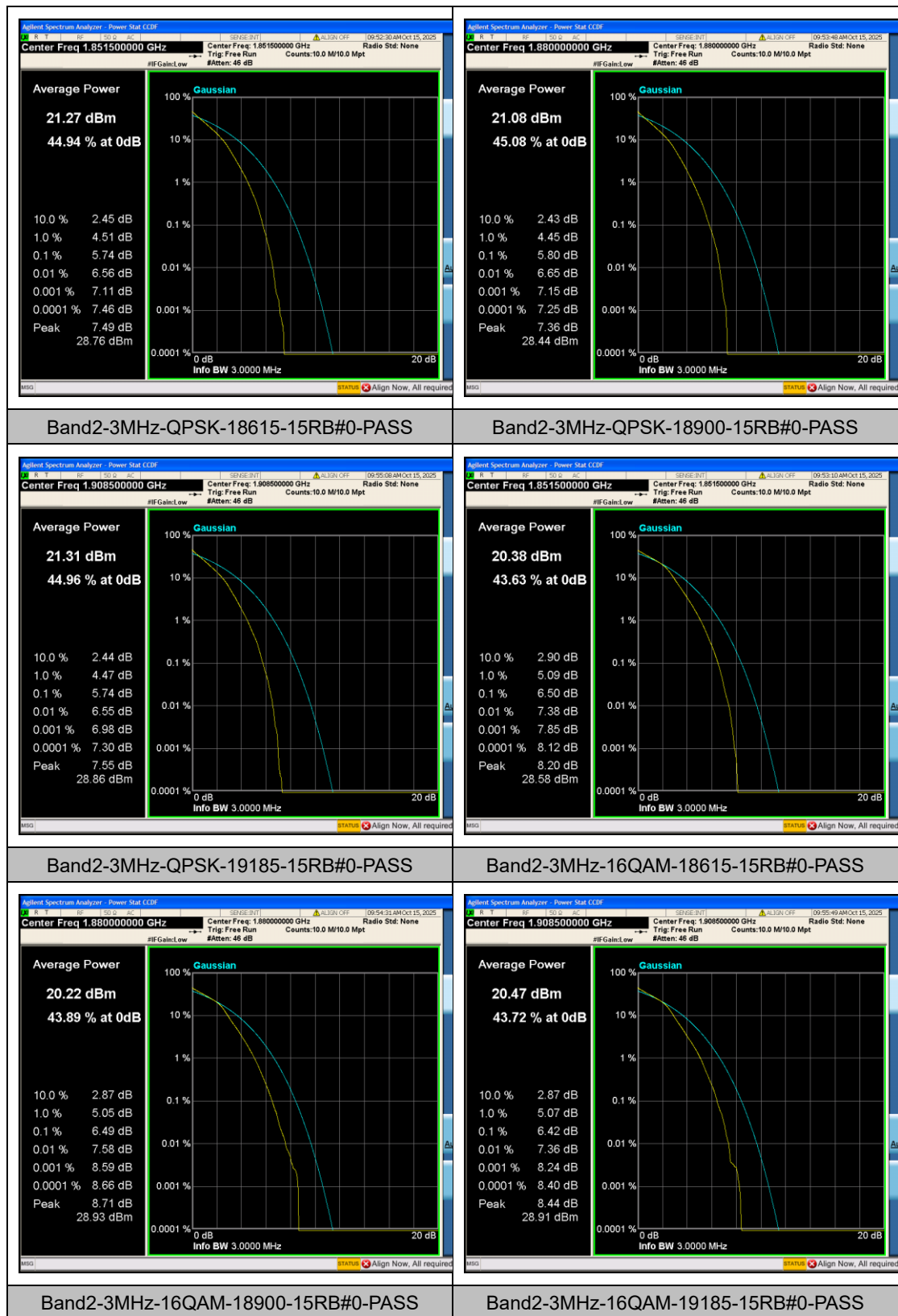
## Appendix B: Peak-to-Average Ratio(CCDF)

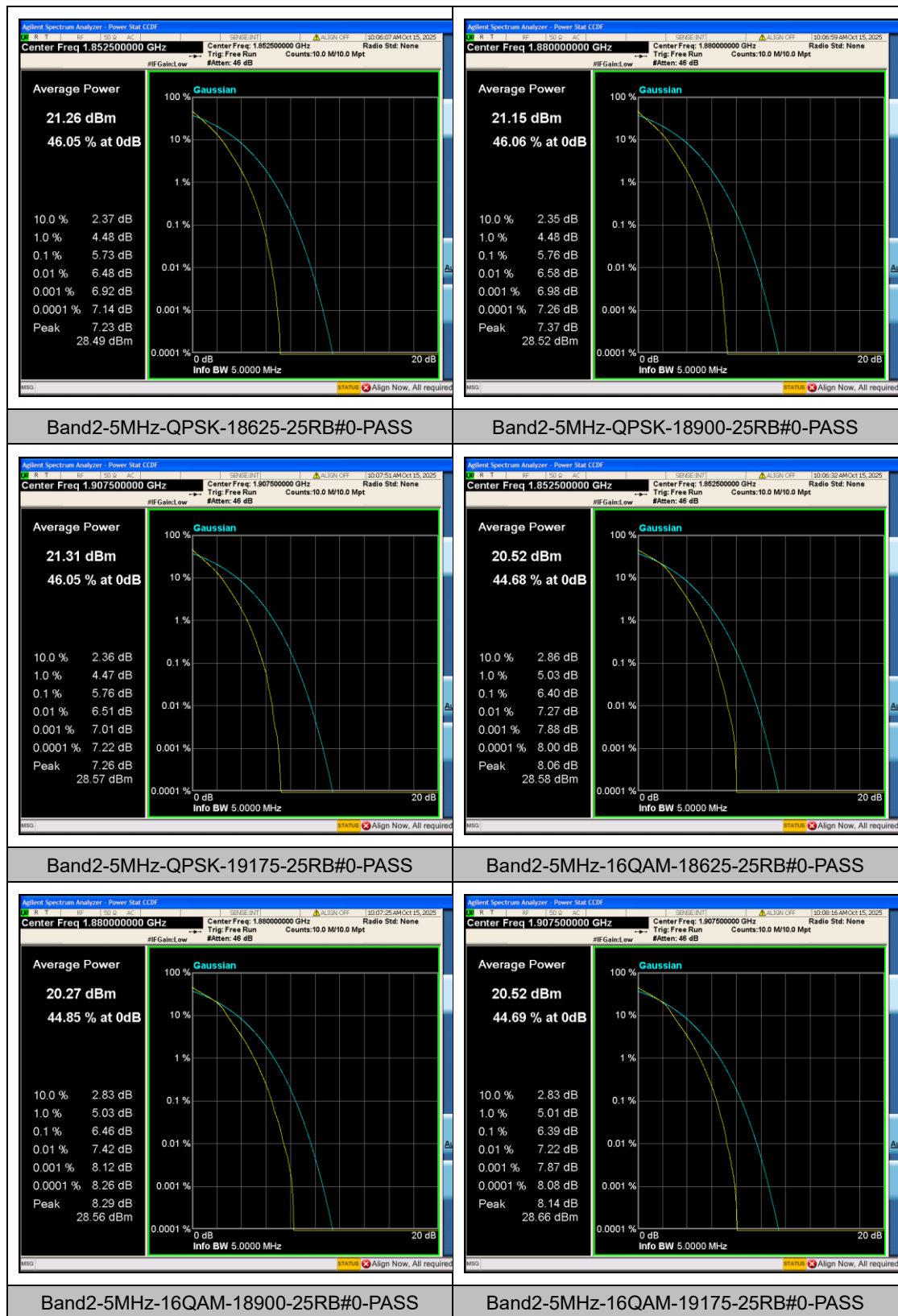
### Test Result

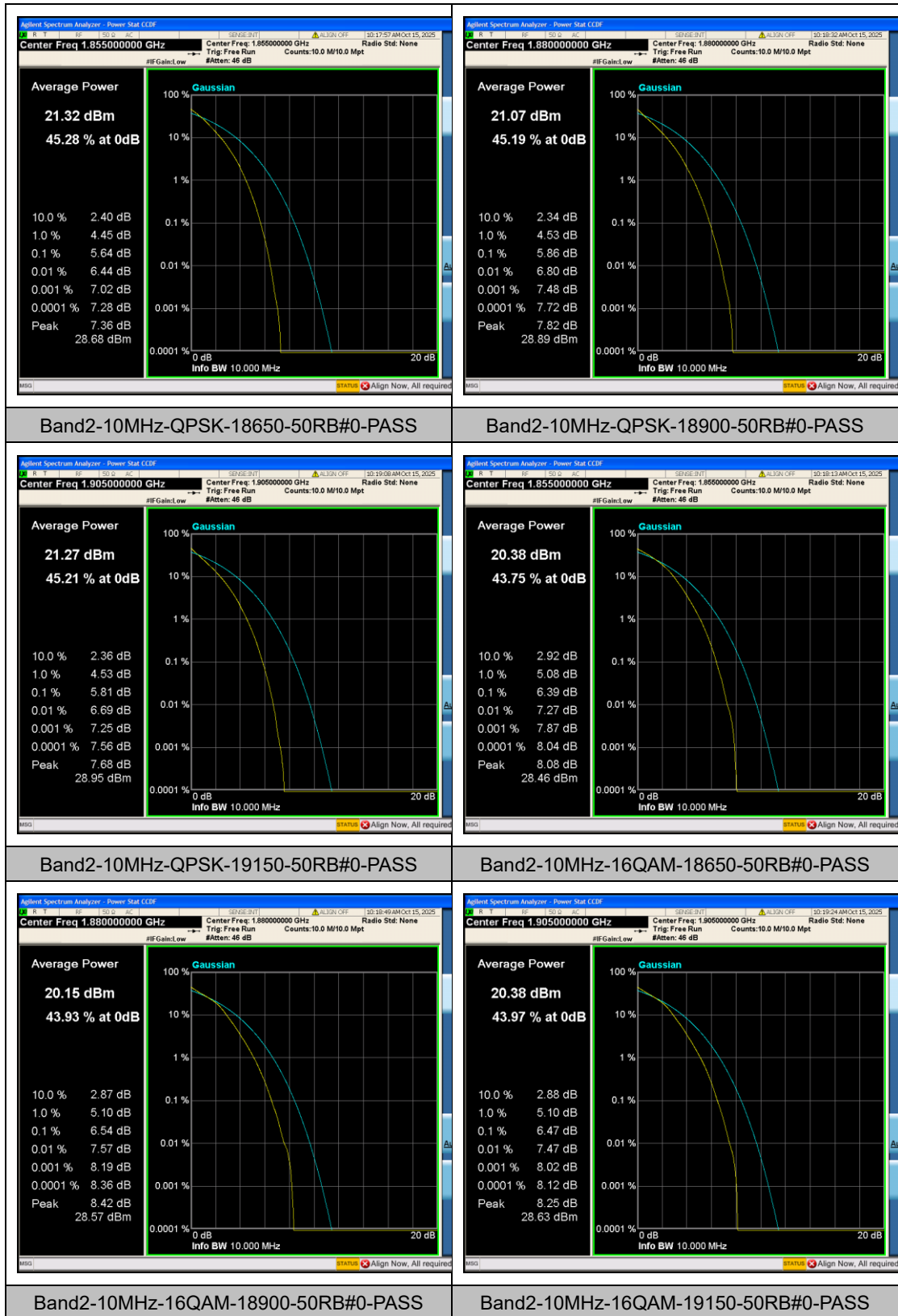
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 5.72       | 13        | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 5.80       | 13        | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 5.69       | 13        | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 6.52       | 13        | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 6.52       | 13        | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 6RB#0            | 6.41       | 13        | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 15RB#0           | 5.74       | 13        | PASS    |
| Band2 | 3MHz      | QPSK       | 18900   | 15RB#0           | 5.80       | 13        | PASS    |
| Band2 | 3MHz      | QPSK       | 19185   | 15RB#0           | 5.74       | 13        | PASS    |
| Band2 | 3MHz      | 16QAM      | 18615   | 15RB#0           | 6.50       | 13        | PASS    |
| Band2 | 3MHz      | 16QAM      | 18900   | 15RB#0           | 6.49       | 13        | PASS    |
| Band2 | 3MHz      | 16QAM      | 19185   | 15RB#0           | 6.42       | 13        | PASS    |
| Band2 | 5MHz      | QPSK       | 18625   | 25RB#0           | 5.73       | 13        | PASS    |
| Band2 | 5MHz      | QPSK       | 18900   | 25RB#0           | 5.76       | 13        | PASS    |
| Band2 | 5MHz      | QPSK       | 19175   | 25RB#0           | 5.76       | 13        | PASS    |
| Band2 | 5MHz      | 16QAM      | 18625   | 25RB#0           | 6.40       | 13        | PASS    |
| Band2 | 5MHz      | 16QAM      | 18900   | 25RB#0           | 6.46       | 13        | PASS    |
| Band2 | 5MHz      | 16QAM      | 19175   | 25RB#0           | 6.39       | 13        | PASS    |
| Band2 | 10MHz     | QPSK       | 18650   | 50RB#0           | 5.64       | 13        | PASS    |
| Band2 | 10MHz     | QPSK       | 18900   | 50RB#0           | 5.86       | 13        | PASS    |
| Band2 | 10MHz     | QPSK       | 19150   | 50RB#0           | 5.81       | 13        | PASS    |
| Band2 | 10MHz     | 16QAM      | 18650   | 50RB#0           | 6.39       | 13        | PASS    |
| Band2 | 10MHz     | 16QAM      | 18900   | 50RB#0           | 6.54       | 13        | PASS    |
| Band2 | 10MHz     | 16QAM      | 19150   | 50RB#0           | 6.47       | 13        | PASS    |
| Band2 | 15MHz     | QPSK       | 18675   | 75RB#0           | 5.82       | 13        | PASS    |
| Band2 | 15MHz     | QPSK       | 18900   | 75RB#0           | 6.21       | 13        | PASS    |
| Band2 | 15MHz     | QPSK       | 19125   | 75RB#0           | 6.04       | 13        | PASS    |
| Band2 | 15MHz     | 16QAM      | 18675   | 75RB#0           | 6.32       | 13        | PASS    |
| Band2 | 15MHz     | 16QAM      | 18900   | 75RB#0           | 6.61       | 13        | PASS    |
| Band2 | 15MHz     | 16QAM      | 19125   | 75RB#0           | 6.48       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 5.46       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0          | 5.97       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0          | 5.65       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0          | 6.26       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0          | 6.63       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0          | 6.35       | 13        | PASS    |

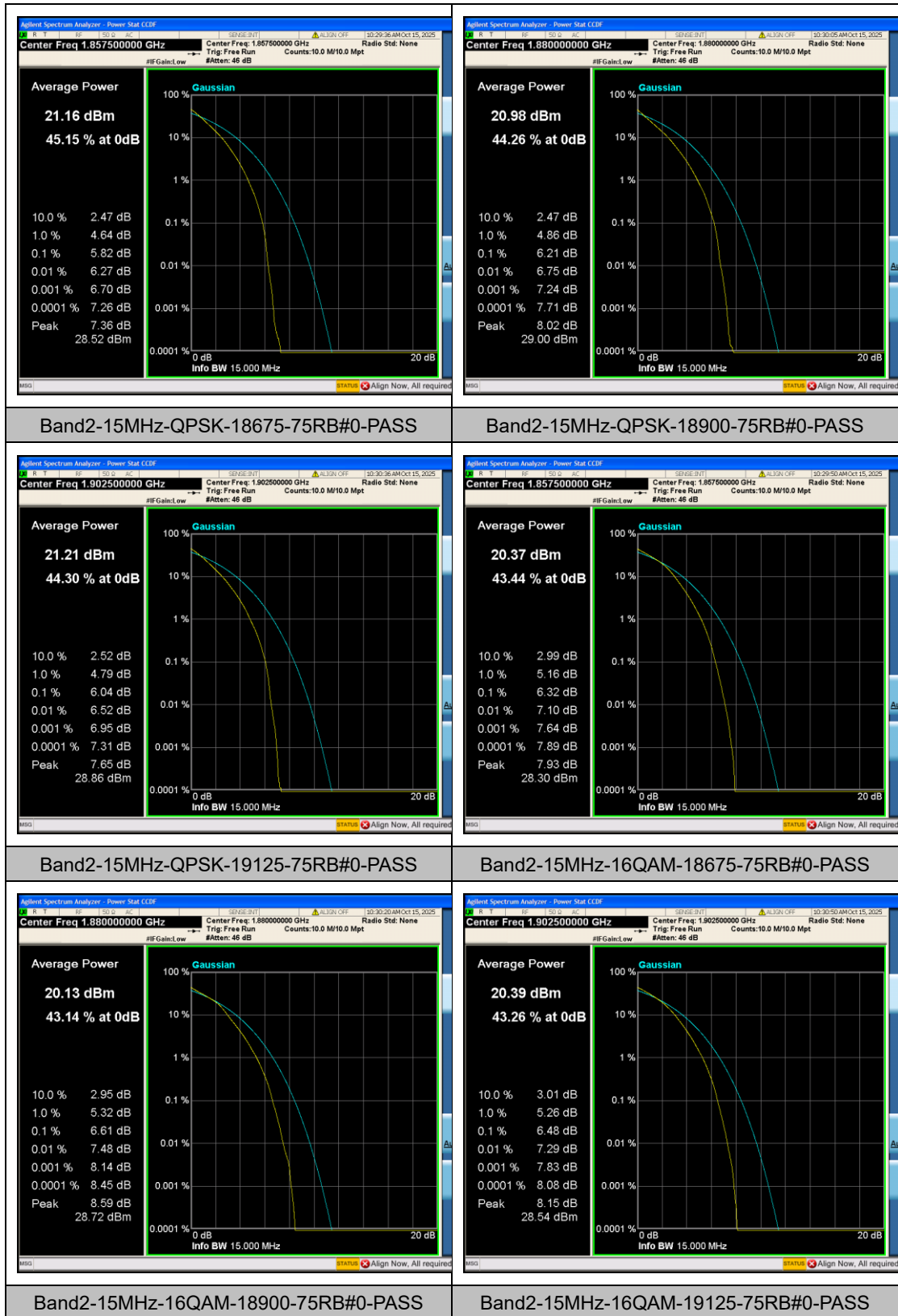
## Test Graphs

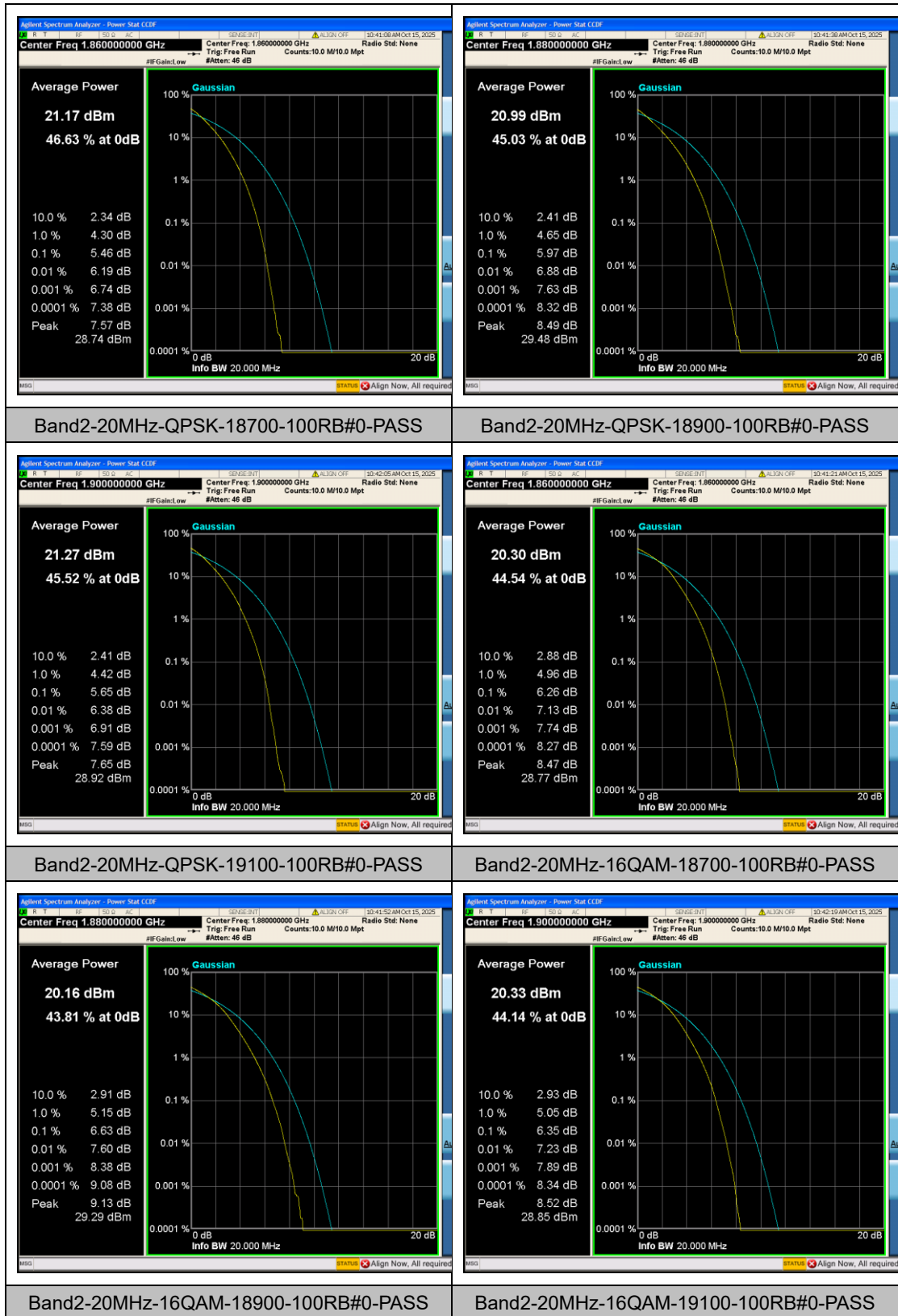












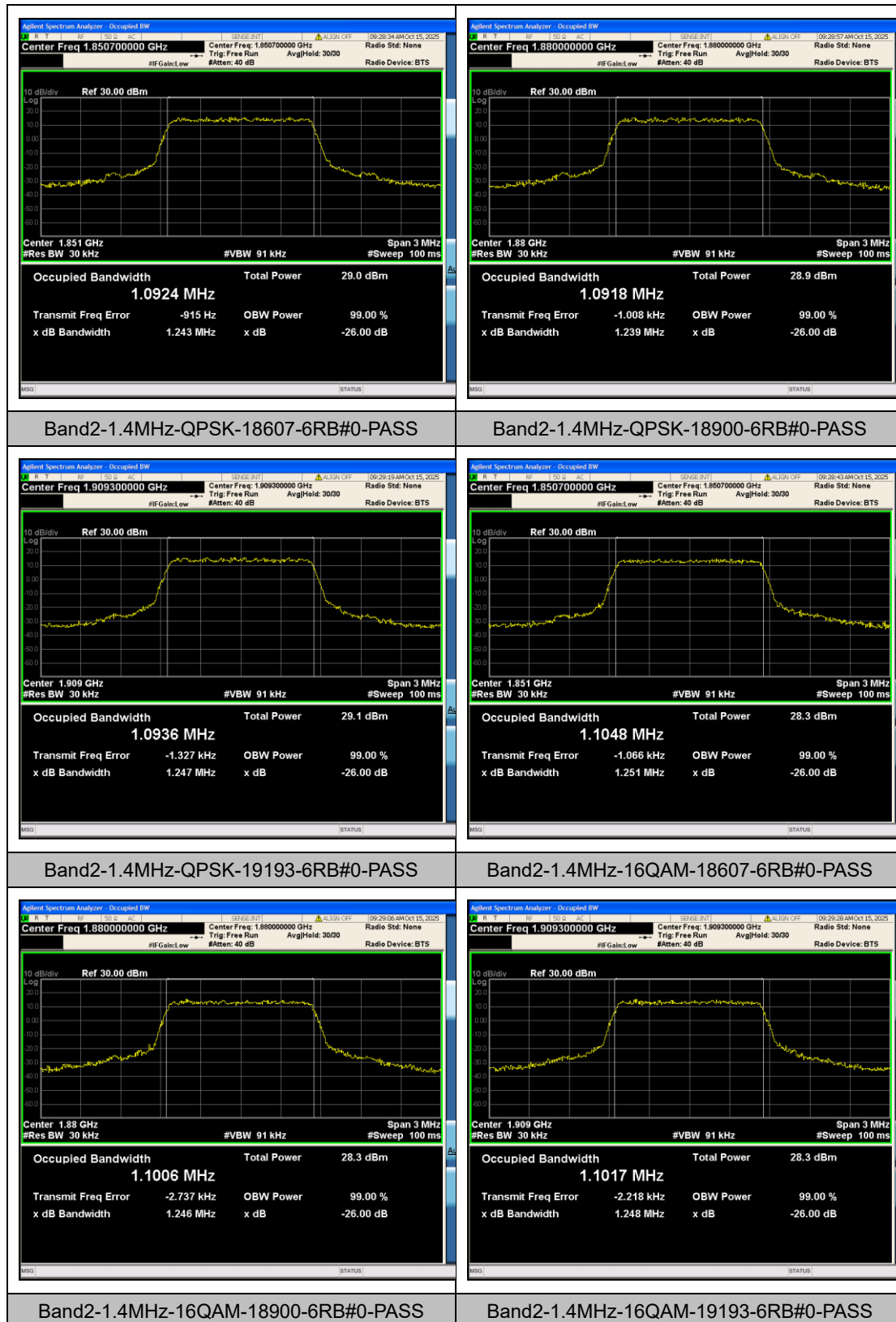
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

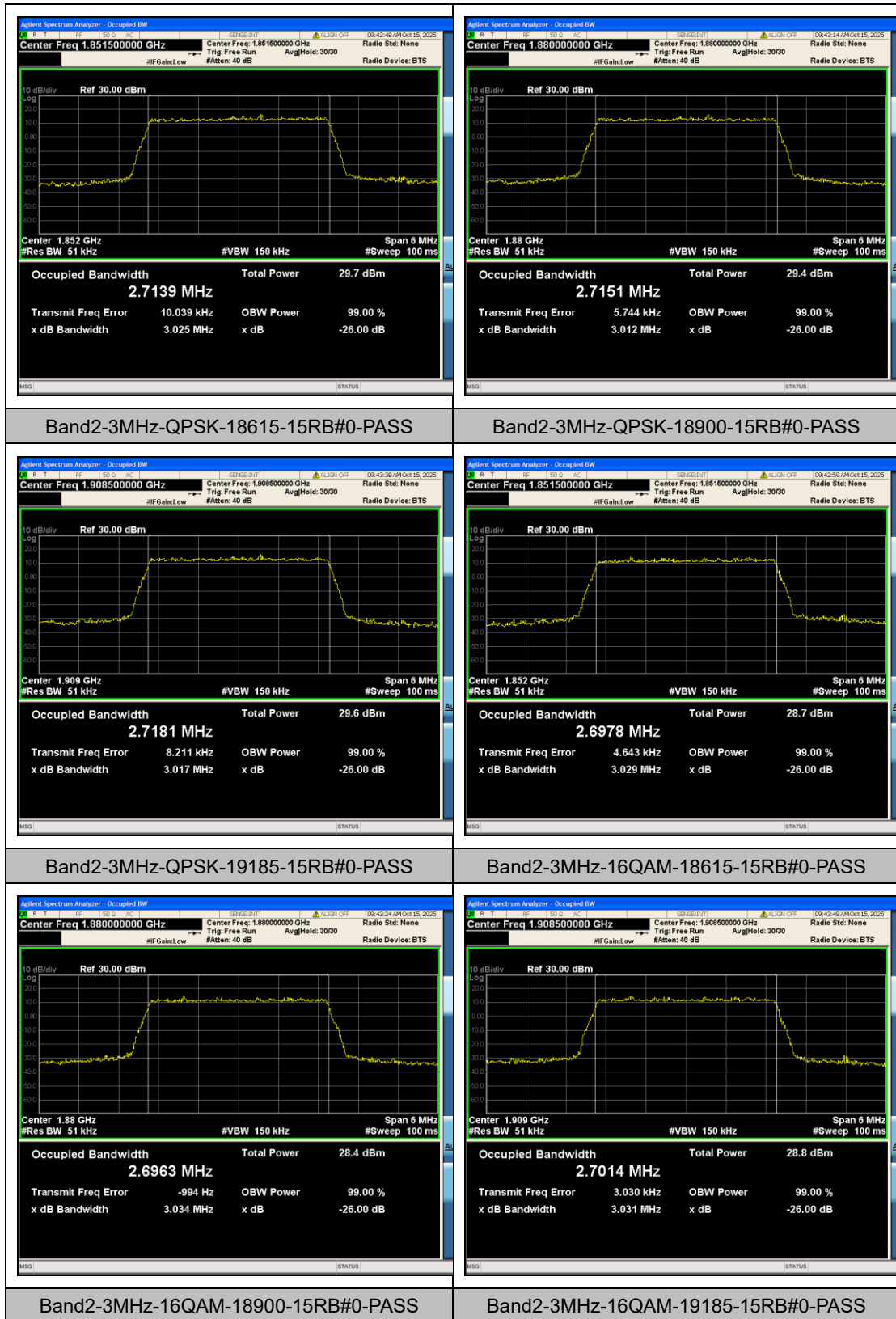
### Test Result

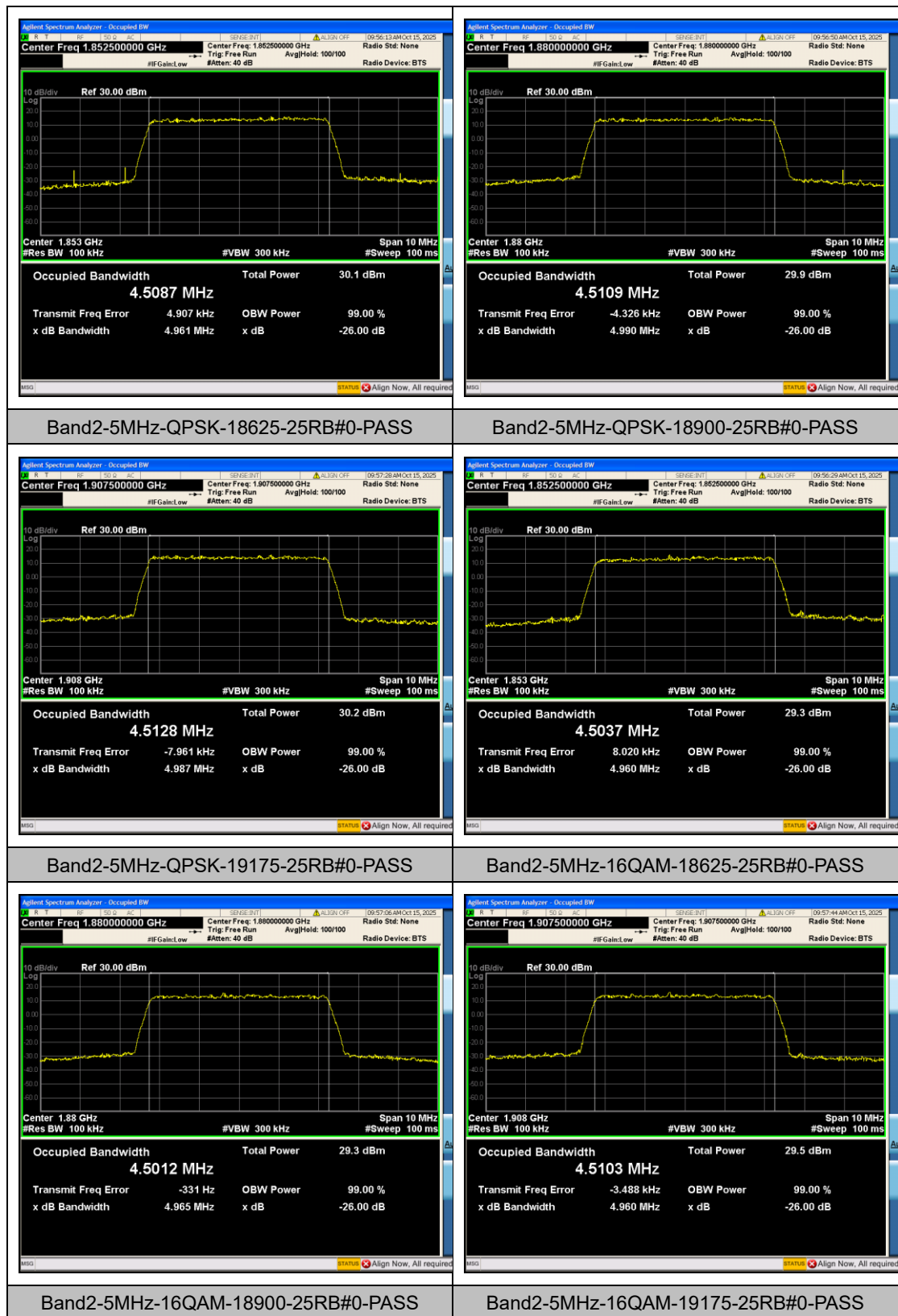
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 1.0924                   | 1.243                | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 1.0918                   | 1.239                | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 1.0936                   | 1.247                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 1.1048                   | 1.251                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 1.1006                   | 1.246                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 6RB#0            | 1.1017                   | 1.248                | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 15RB#0           | 2.7139                   | 3.025                | PASS    |
| Band2 | 3MHz      | QPSK       | 18900   | 15RB#0           | 2.7151                   | 3.012                | PASS    |
| Band2 | 3MHz      | QPSK       | 19185   | 15RB#0           | 2.7181                   | 3.017                | PASS    |
| Band2 | 3MHz      | 16QAM      | 18615   | 15RB#0           | 2.6978                   | 3.029                | PASS    |
| Band2 | 3MHz      | 16QAM      | 18900   | 15RB#0           | 2.6963                   | 3.034                | PASS    |
| Band2 | 3MHz      | 16QAM      | 19185   | 15RB#0           | 2.7014                   | 3.031                | PASS    |
| Band2 | 5MHz      | QPSK       | 18625   | 25RB#0           | 4.5087                   | 4.961                | PASS    |
| Band2 | 5MHz      | QPSK       | 18900   | 25RB#0           | 4.5109                   | 4.990                | PASS    |
| Band2 | 5MHz      | QPSK       | 19175   | 25RB#0           | 4.5128                   | 4.987                | PASS    |
| Band2 | 5MHz      | 16QAM      | 18625   | 25RB#0           | 4.5037                   | 4.960                | PASS    |
| Band2 | 5MHz      | 16QAM      | 18900   | 25RB#0           | 4.5012                   | 4.965                | PASS    |
| Band2 | 5MHz      | 16QAM      | 19175   | 25RB#0           | 4.5103                   | 4.960                | PASS    |
| Band2 | 10MHz     | QPSK       | 18650   | 50RB#0           | 8.9689                   | 9.831                | PASS    |
| Band2 | 10MHz     | QPSK       | 18900   | 50RB#0           | 8.9987                   | 9.877                | PASS    |
| Band2 | 10MHz     | QPSK       | 19150   | 50RB#0           | 9.0157                   | 9.903                | PASS    |
| Band2 | 10MHz     | 16QAM      | 18650   | 50RB#0           | 8.9518                   | 9.853                | PASS    |
| Band2 | 10MHz     | 16QAM      | 18900   | 50RB#0           | 8.9960                   | 9.929                | PASS    |
| Band2 | 10MHz     | 16QAM      | 19150   | 50RB#0           | 9.0106                   | 9.923                | PASS    |
| Band2 | 15MHz     | QPSK       | 18675   | 75RB#0           | 13.447                   | 14.82                | PASS    |
| Band2 | 15MHz     | QPSK       | 18900   | 75RB#0           | 13.538                   | 14.92                | PASS    |
| Band2 | 15MHz     | QPSK       | 19125   | 75RB#0           | 13.503                   | 14.93                | PASS    |
| Band2 | 15MHz     | 16QAM      | 18675   | 75RB#0           | 13.431                   | 14.82                | PASS    |
| Band2 | 15MHz     | 16QAM      | 18900   | 75RB#0           | 13.539                   | 14.97                | PASS    |
| Band2 | 15MHz     | 16QAM      | 19125   | 75RB#0           | 13.495                   | 14.81                | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 17.903                   | 19.59                | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0          | 18.066                   | 19.68                | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0          | 17.953                   | 19.70                | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0          | 17.917                   | 19.59                | PASS    |

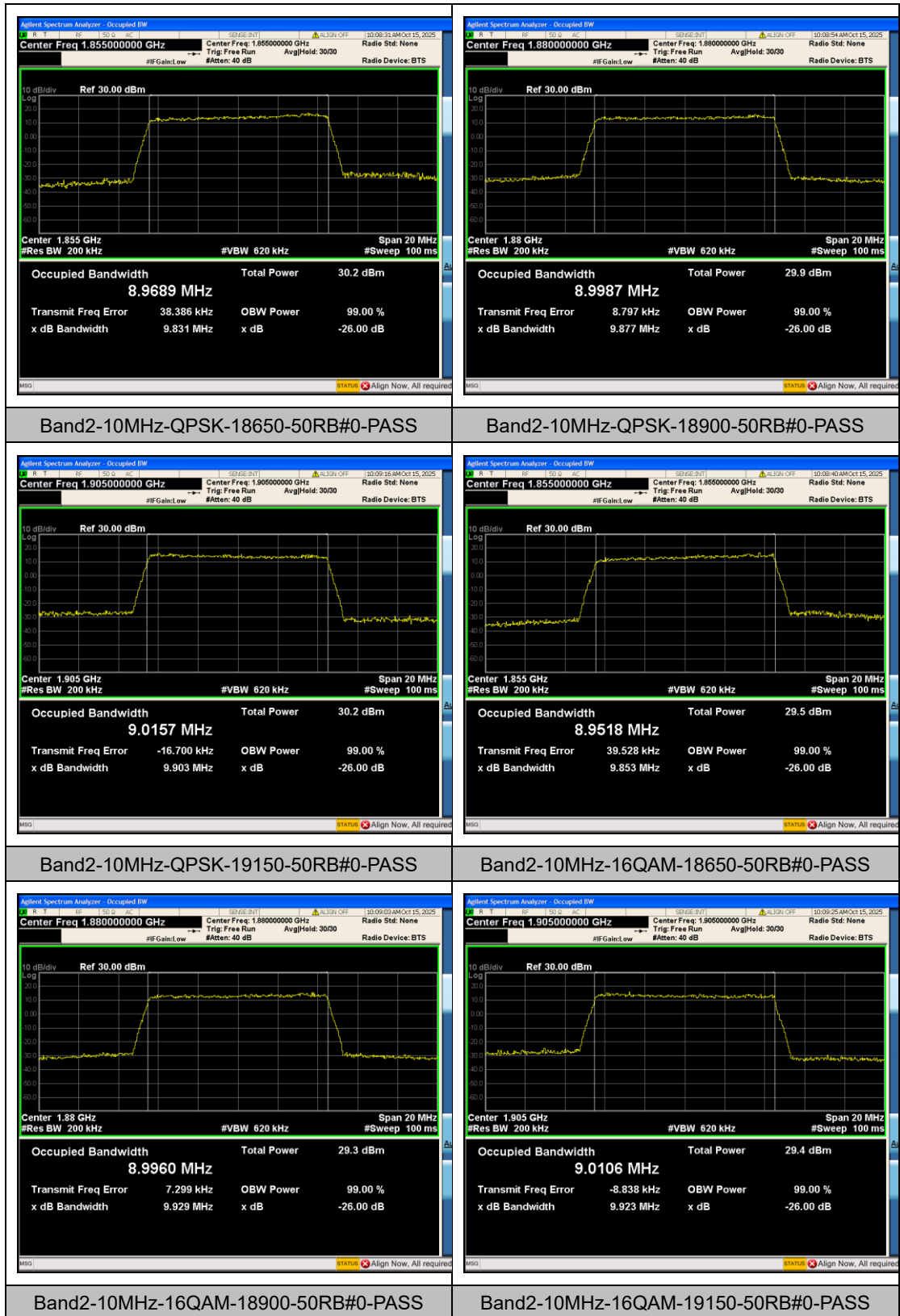
|       |       |       |       |         |        |       |      |
|-------|-------|-------|-------|---------|--------|-------|------|
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 18.071 | 19.67 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 17.954 | 19.67 | PASS |

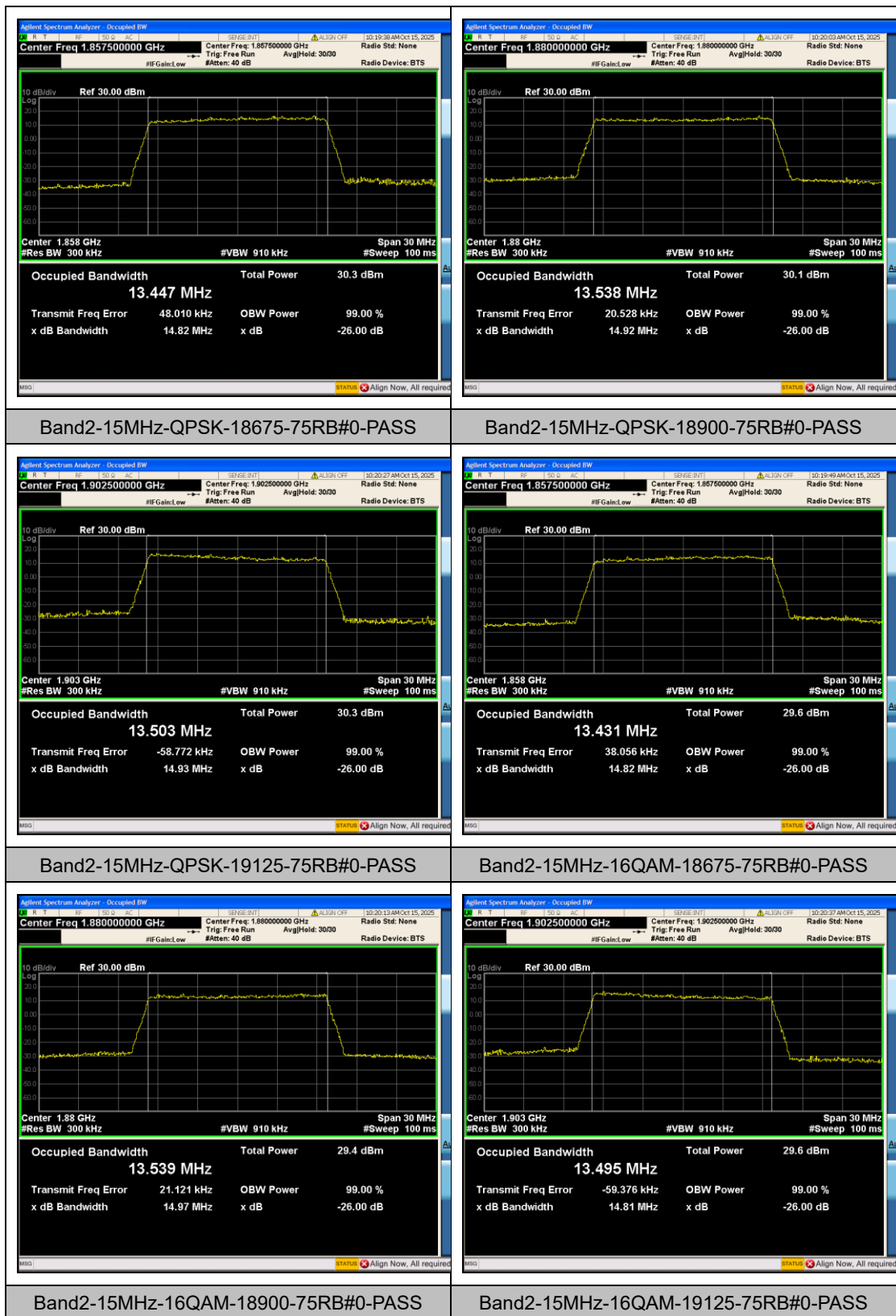
## Test Graphs













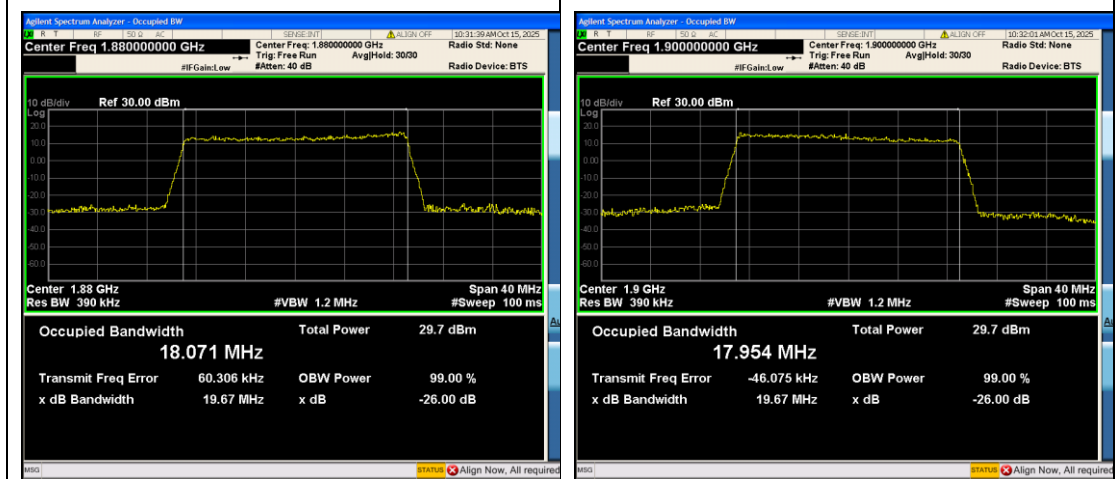
Band2-20MHz-QPSK-18700-100RB#0-PASS

Band2-20MHz-QPSK-18900-100RB#0-PASS



Band2-20MHz-QPSK-19100-100RB#0-PASS

Band2-20MHz-16QAM-18700-100RB#0-PASS



Band2-20MHz-16QAM-18900-100RB#0-PASS

Band2-20MHz-16QAM-19100-100RB#0-PASS

## Appendix D: Band Edge

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | -25.18      | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | -30.00      | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | -30.08      | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 6RB#0            | -31.91      | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 15RB#0           | -28.87      | PASS    |
| Band2 | 3MHz      | QPSK       | 19185   | 15RB#0           | -30.21      | PASS    |
| Band2 | 3MHz      | 16QAM      | 18615   | 15RB#0           | -30.33      | PASS    |
| Band2 | 3MHz      | 16QAM      | 19185   | 15RB#0           | -30.52      | PASS    |
| Band2 | 5MHz      | QPSK       | 18625   | 25RB#0           | -34.96      | PASS    |
| Band2 | 5MHz      | QPSK       | 19175   | 25RB#0           | -34.02      | PASS    |
| Band2 | 5MHz      | 16QAM      | 18625   | 25RB#0           | -34.18      | PASS    |
| Band2 | 5MHz      | 16QAM      | 19175   | 25RB#0           | -33.41      | PASS    |
| Band2 | 10MHz     | QPSK       | 18650   | 50RB#0           | -38.78      | PASS    |
| Band2 | 10MHz     | QPSK       | 19150   | 50RB#0           | -37.87      | PASS    |
| Band2 | 10MHz     | 16QAM      | 18650   | 50RB#0           | -38.62      | PASS    |
| Band2 | 10MHz     | 16QAM      | 19150   | 50RB#0           | -37.55      | PASS    |
| Band2 | 15MHz     | QPSK       | 18675   | 75RB#0           | -39.73      | PASS    |
| Band2 | 15MHz     | QPSK       | 19125   | 75RB#0           | -39.72      | PASS    |
| Band2 | 15MHz     | 16QAM      | 18675   | 75RB#0           | -39.37      | PASS    |
| Band2 | 15MHz     | 16QAM      | 19125   | 75RB#0           | -39.79      | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | -40.20      | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0          | -40.94      | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0          | -40.46      | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0          | -41.16      | PASS    |