

# FCC LTE Band Test Data

**FCC ID** : **2BG6D-SDM660**

**Company:** : **Dongguan Yigaoxin Electronic Technology Co., Ltd.**

**EUT** : **Wireless Carplay Box**

**Model Number** : **SDM660**

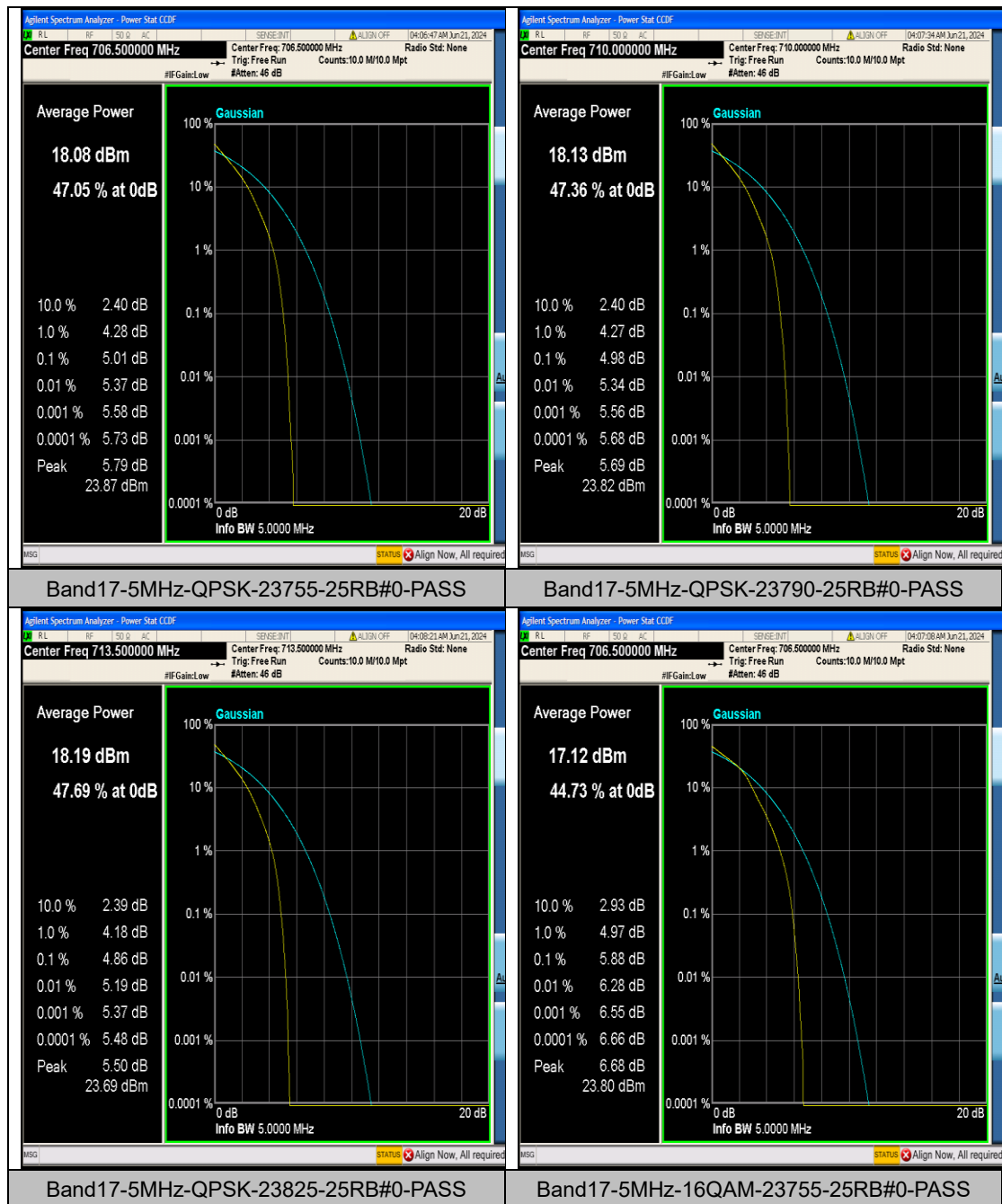
**Reviewed By** : **Eric Wang**

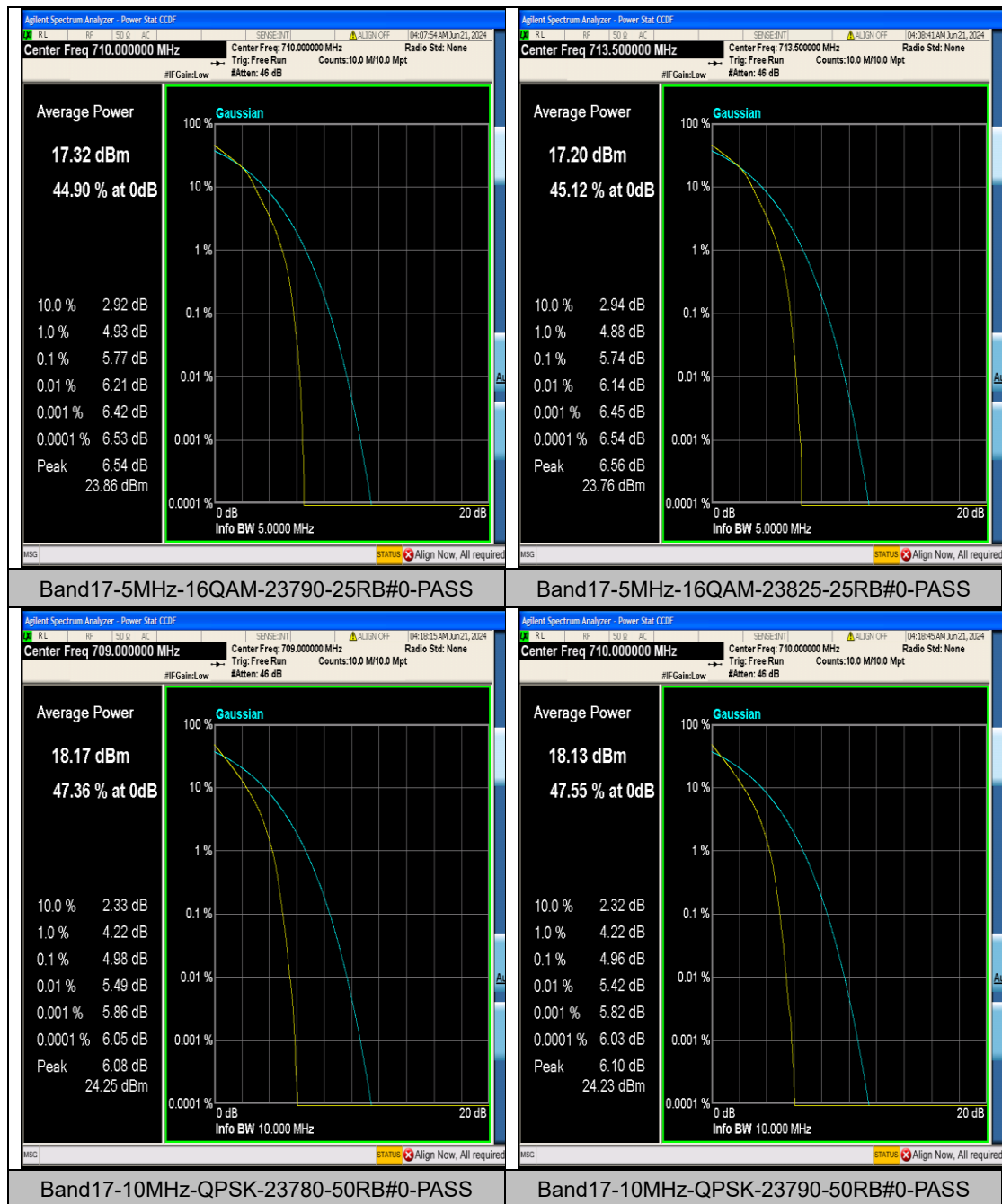
## Appendix B: Peak-to-Average Ratio(CCDF)

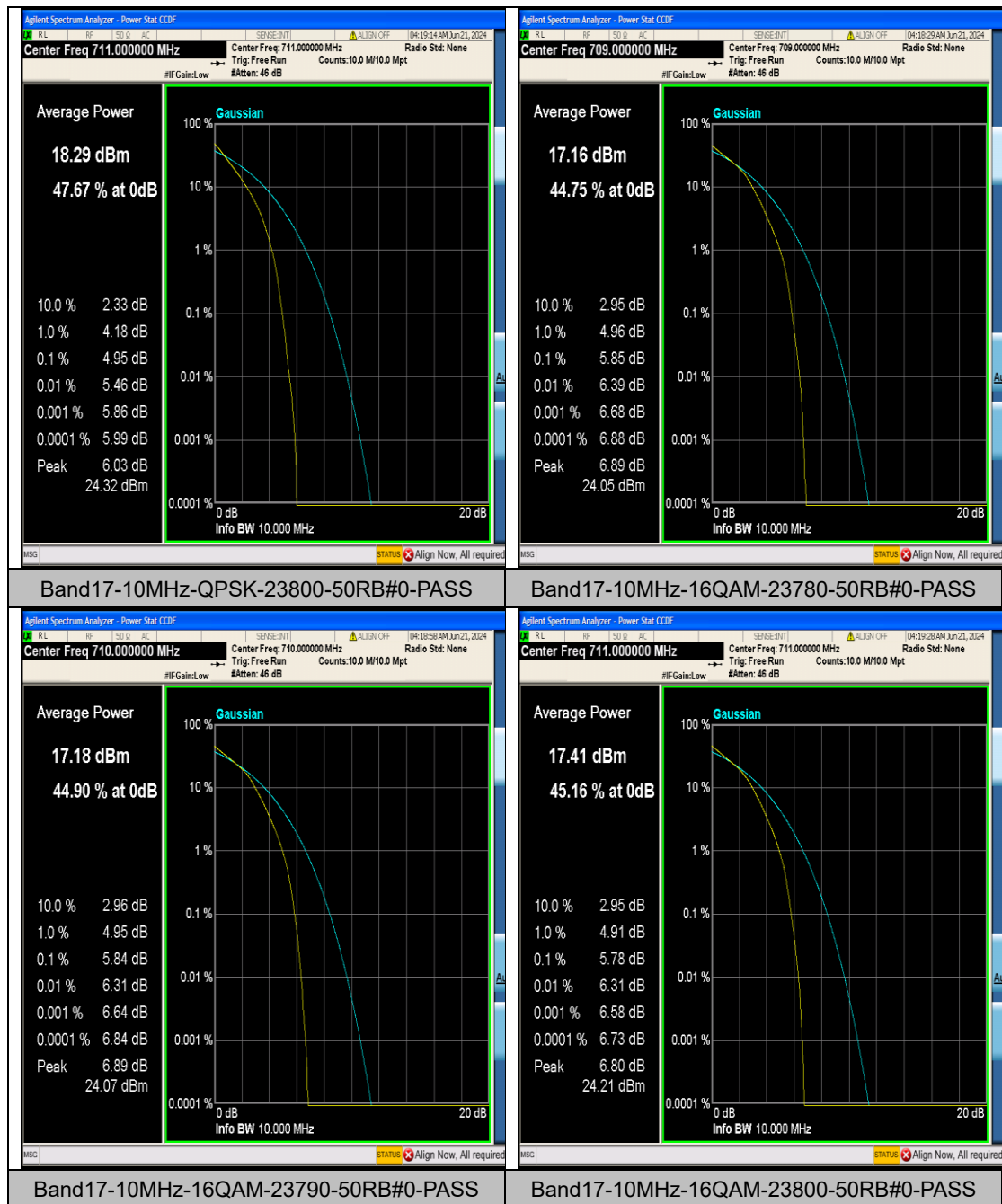
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 5.01       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 4.98       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 4.86       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 5.88       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 5.77       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 5.74       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 4.98       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 4.96       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 4.95       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 5.85       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 5.84       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 5.78       | 13        | PASS    |

## Test Graphs





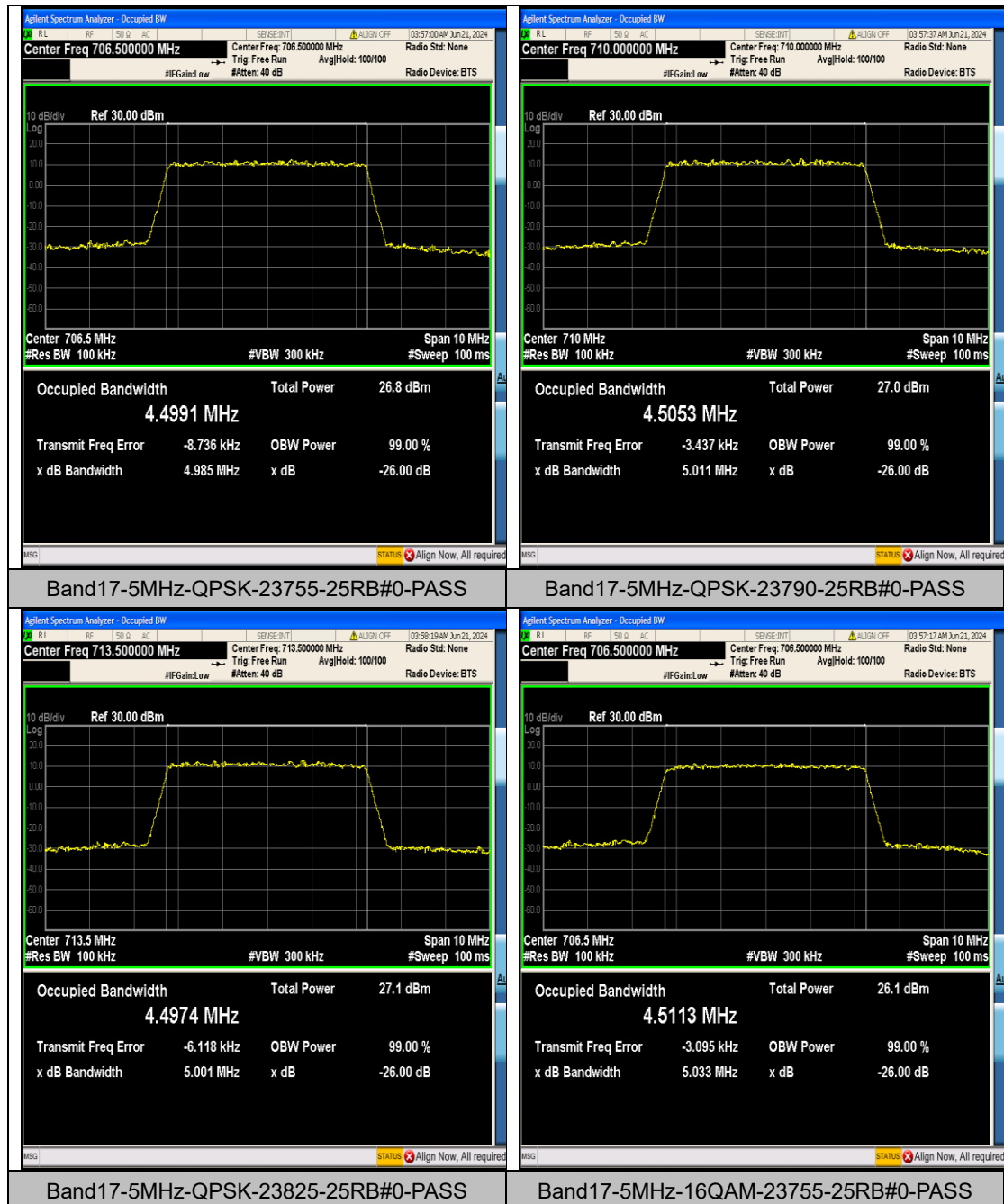


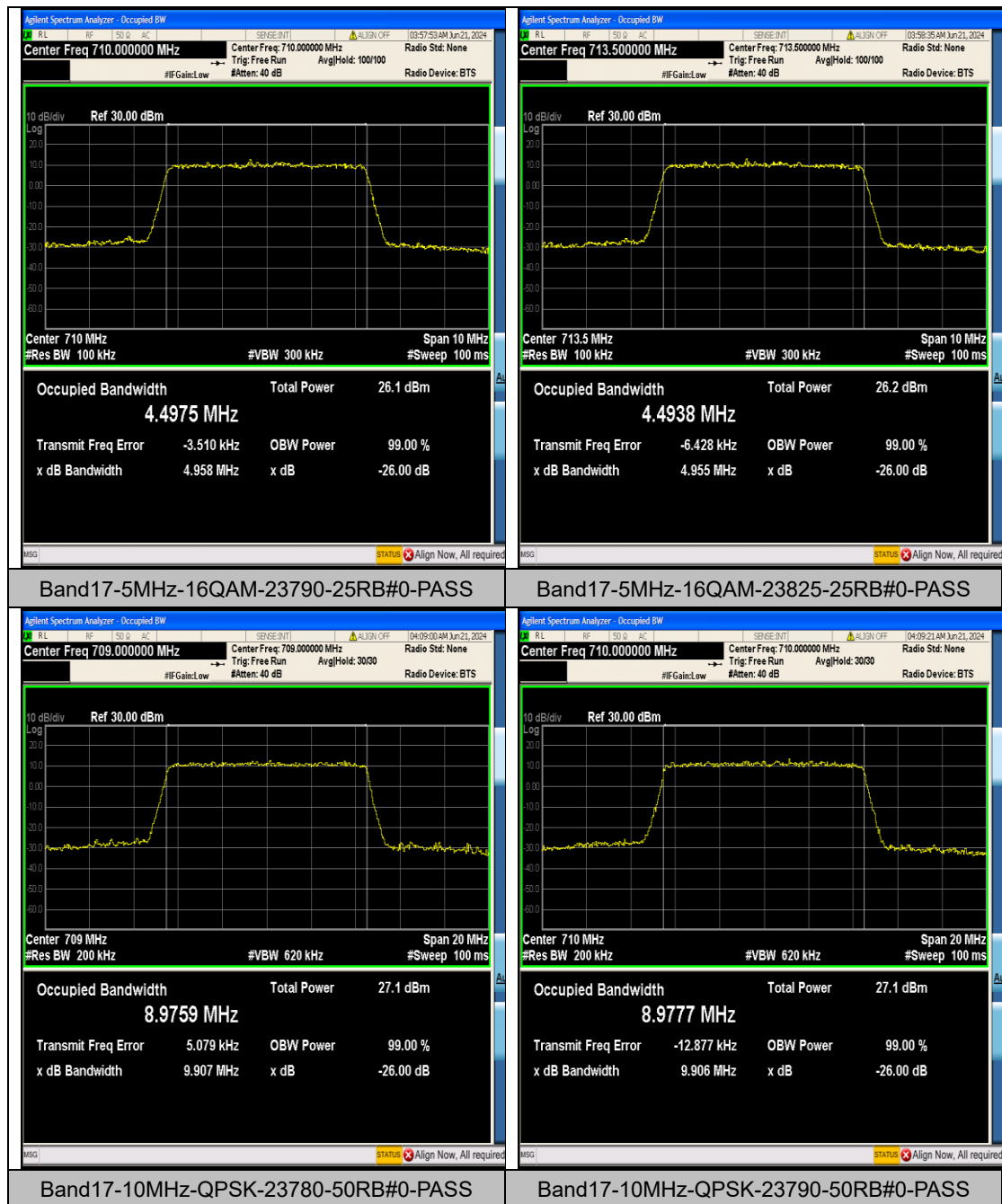
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

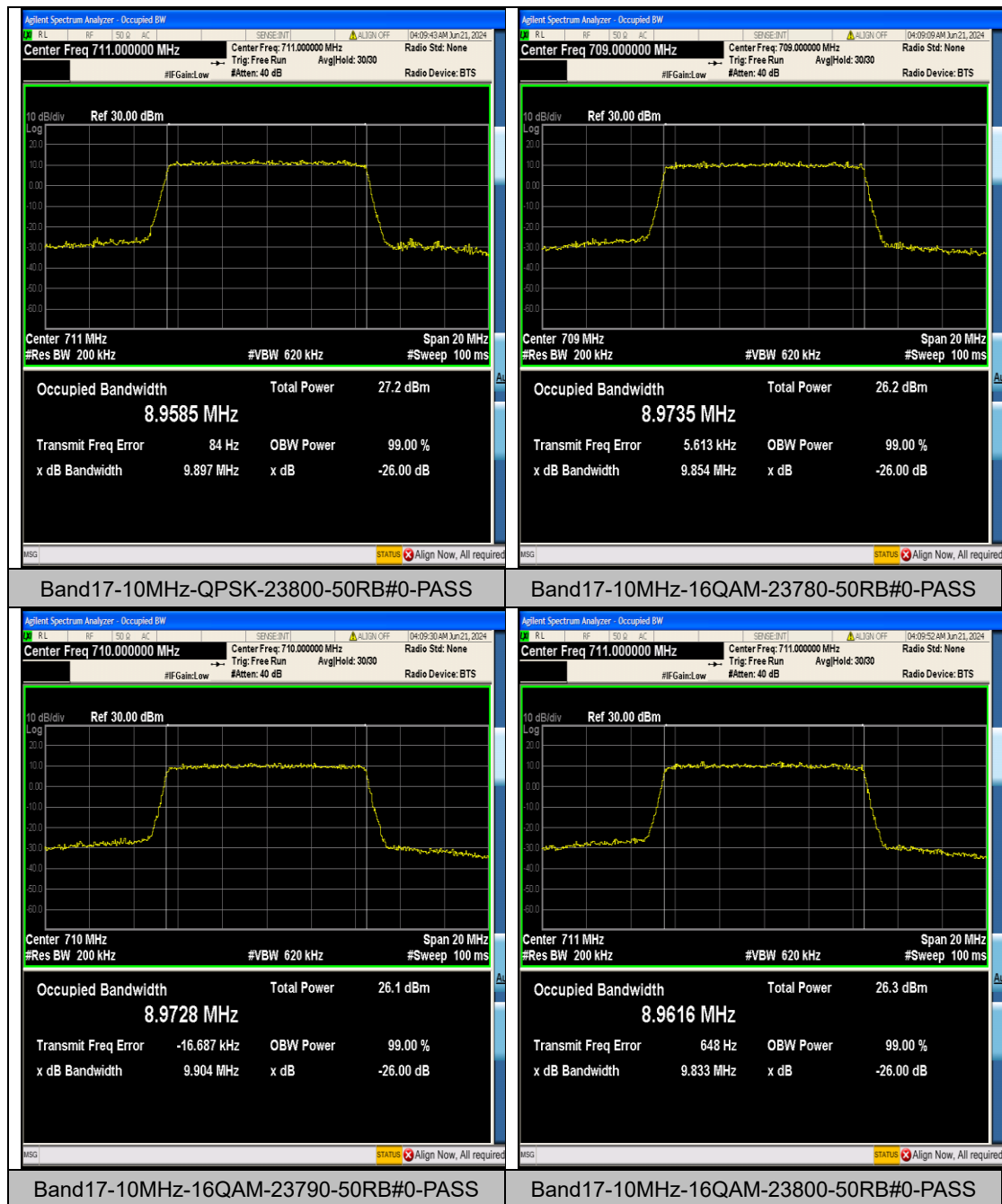
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 4.4991                   | 4.985                | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 4.5053                   | 5.011                | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 4.4974                   | 5.001                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 4.5113                   | 5.033                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 4.4975                   | 4.958                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 4.4938                   | 4.955                | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 8.9759                   | 9.907                | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 8.9777                   | 9.906                | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 8.9585                   | 9.897                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 8.9735                   | 9.854                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 8.9728                   | 9.904                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 8.9616                   | 9.833                | PASS    |

## Test Graphs





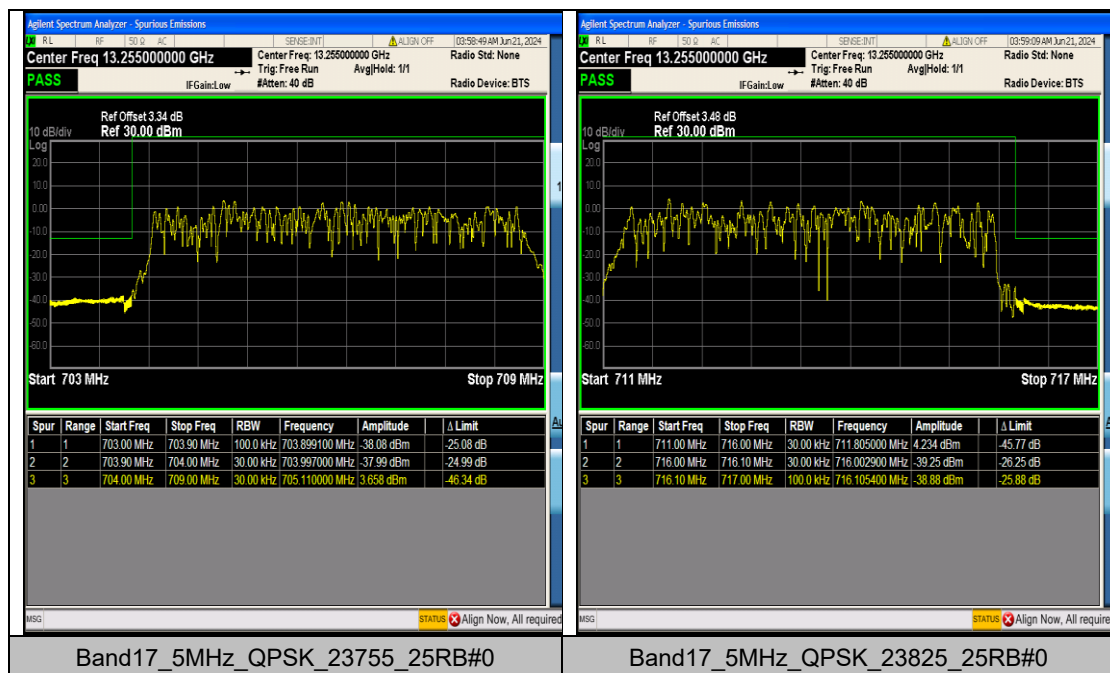


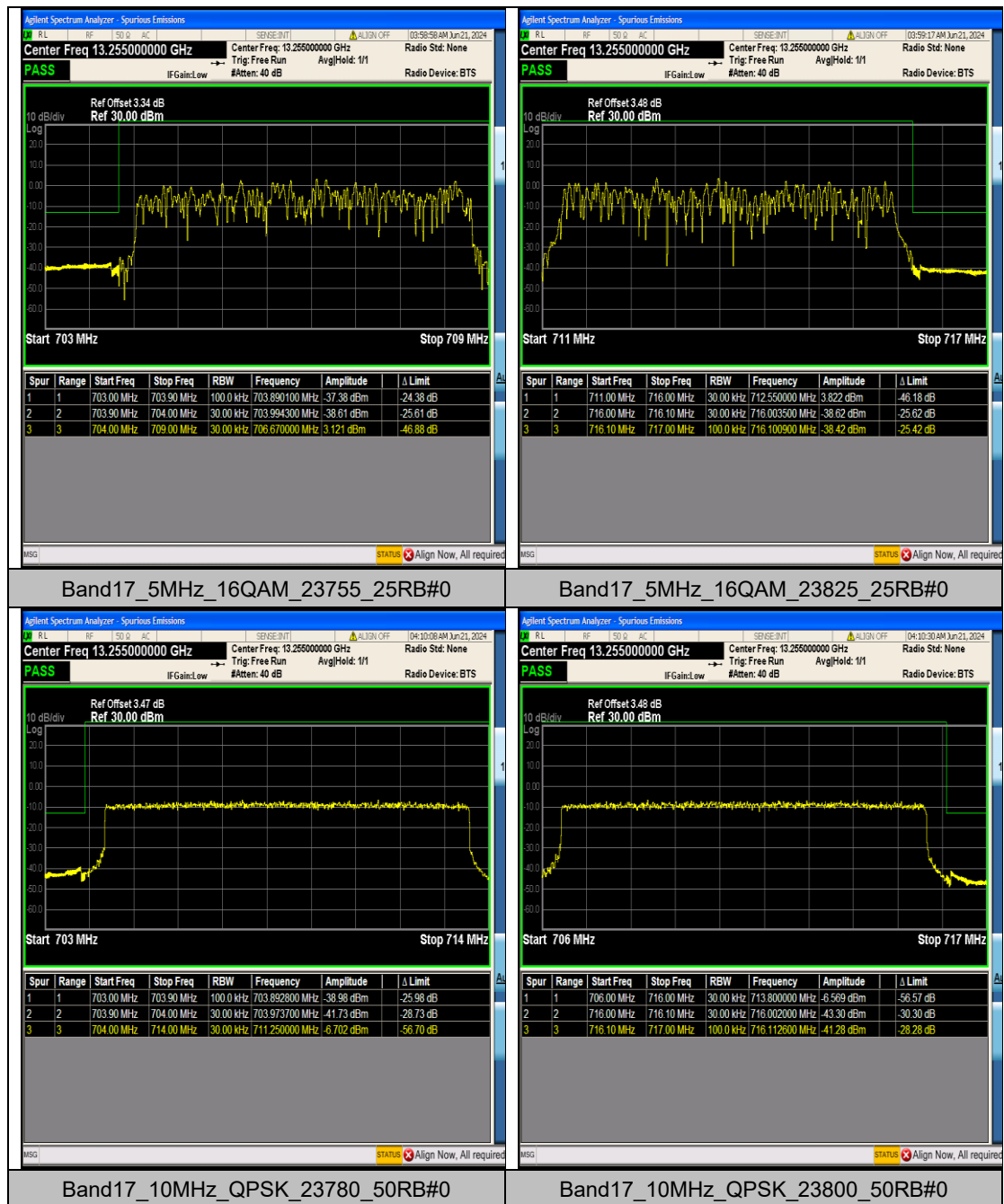
## Appendix D: Band Edge

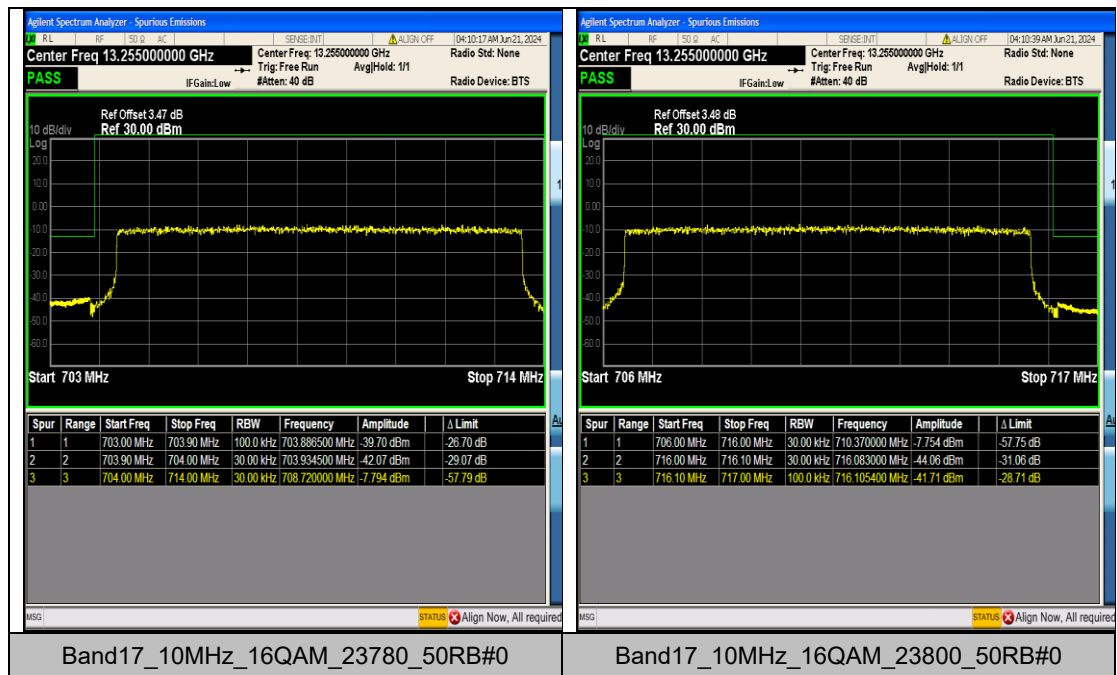
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | -37.99      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | -38.88      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | -37.38      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | -38.42      | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | -38.98      | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | -41.28      | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | -39.70      | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | -41.71      | PASS    |

### Test Graphs







## Appendix E: Conducted Spurious Emission

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-----------------|--------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 0.009~0.15      | -46.66       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 0.15~30         | -58.44       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 30~1000         | -59.52       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 1000~3000       | -52.74       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 3000~10000      | -49.63       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 0.009~0.15      | -46.86       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 0.15~30         | -58.22       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 30~1000         | -58.34       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 1000~3000       | -52.58       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 3000~10000      | -49.68       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 0.009~0.15      | -49.44       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 0.15~30         | -58.37       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 30~1000         | -58.27       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 1000~3000       | -52.59       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 3000~10000      | -49.80       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 0.009~0.15      | -47.02       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 0.15~30         | -58.69       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 30~1000         | -61.15       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 1000~3000       | -52.45       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 3000~10000      | -49.69       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 0.009~0.15      | -48.56       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 0.15~30         | -56.10       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 30~1000         | -60.03       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 1000~3000       | -52.46       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 3000~10000      | -49.83       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 0.009~0.15      | -46.46       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 0.15~30         | -59.87       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 30~1000         | -61.04       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 1000~3000       | -52.61       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 3000~10000      | -49.87       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 0.009~0.15      | -49.75       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 0.15~30         | -58.63       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 30~1000         | -66.78       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 1000~3000       | -52.61       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 3000~10000      | -49.73       | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 0.009~0.15      | -46.85       | PASS    |

|        |       |       |       |        |            |        |      |
|--------|-------|-------|-------|--------|------------|--------|------|
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0 | 0.15~30    | -59.67 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0 | 30~1000    | -66.72 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0 | 1000~3000  | -52.61 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0 | 3000~10000 | -50.03 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0 | 0.009~0.15 | -46.09 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0 | 0.15~30    | -59.21 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0 | 30~1000    | -66.56 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0 | 1000~3000  | -52.52 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0 | 3000~10000 | -48.94 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | 0.009~0.15 | -50.05 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | 0.15~30    | -59.06 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | 30~1000    | -66.71 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | 1000~3000  | -52.65 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | 3000~10000 | -50.05 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | 0.009~0.15 | -51.78 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | 0.15~30    | -59.52 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | 30~1000    | -66.54 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | 1000~3000  | -52.84 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | 3000~10000 | -49.91 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | 0.009~0.15 | -49.51 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | 0.15~30    | -57.93 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | 30~1000    | -66.59 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | 1000~3000  | -52.61 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | 3000~10000 | -50.00 | PASS |

## Test Graphs

