

# FCC LTE Band Test Data

**FCC ID** : 2BFI8-TIQMINIM5

**Company:** : Jinan Ant Zhonglian Information Technology Co., Ltd.

**EUT** : TIQ mini M5

**Model Number** : TIQ mini M5

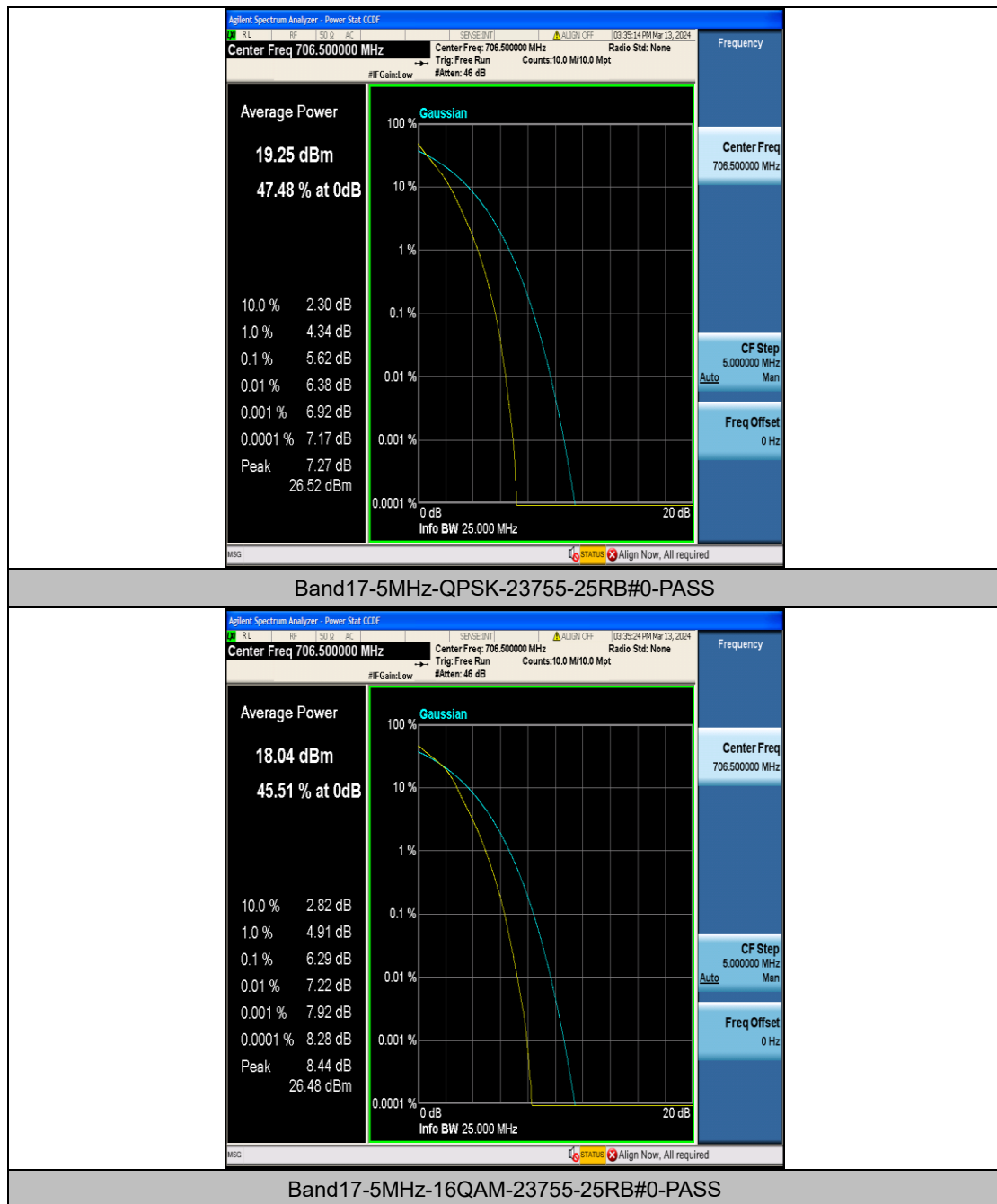
**Reviewed By** : Eric Wang

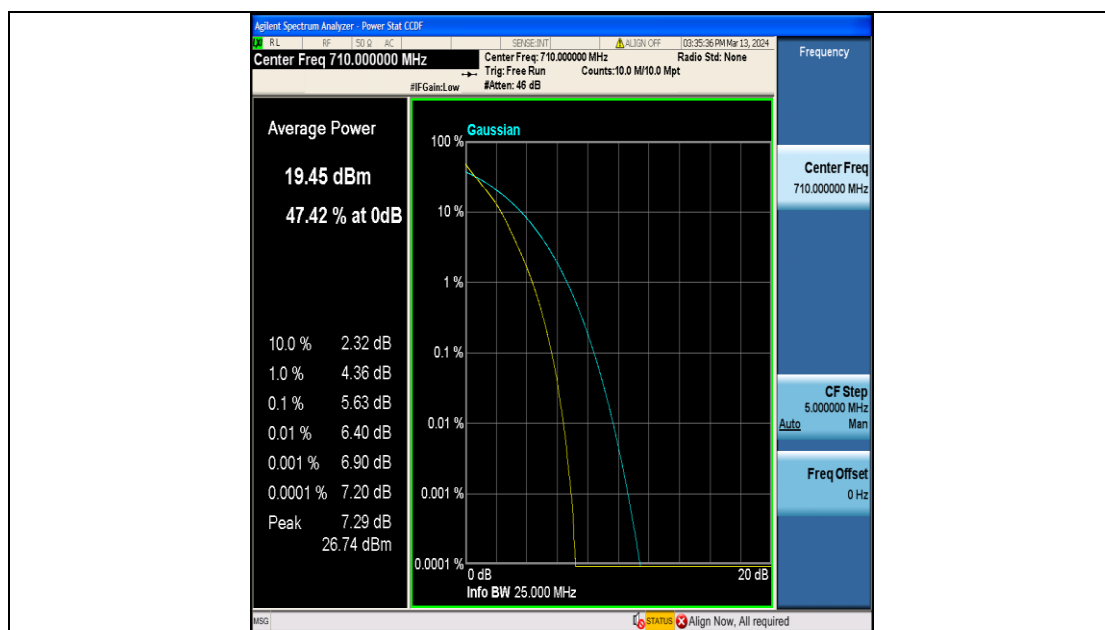
## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

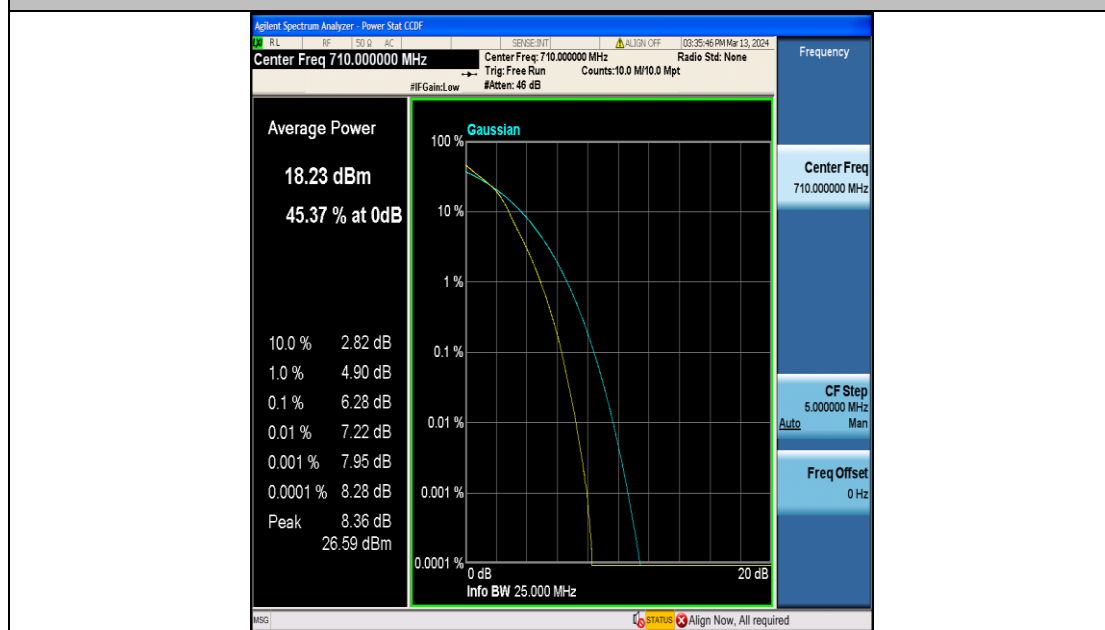
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 5.62       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 6.29       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 5.63       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 6.28       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 5.64       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 6.30       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 5.65       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 6.29       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 5.62       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 6.32       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 5.71       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 6.34       | 13        | PASS    |

## Test Graphs

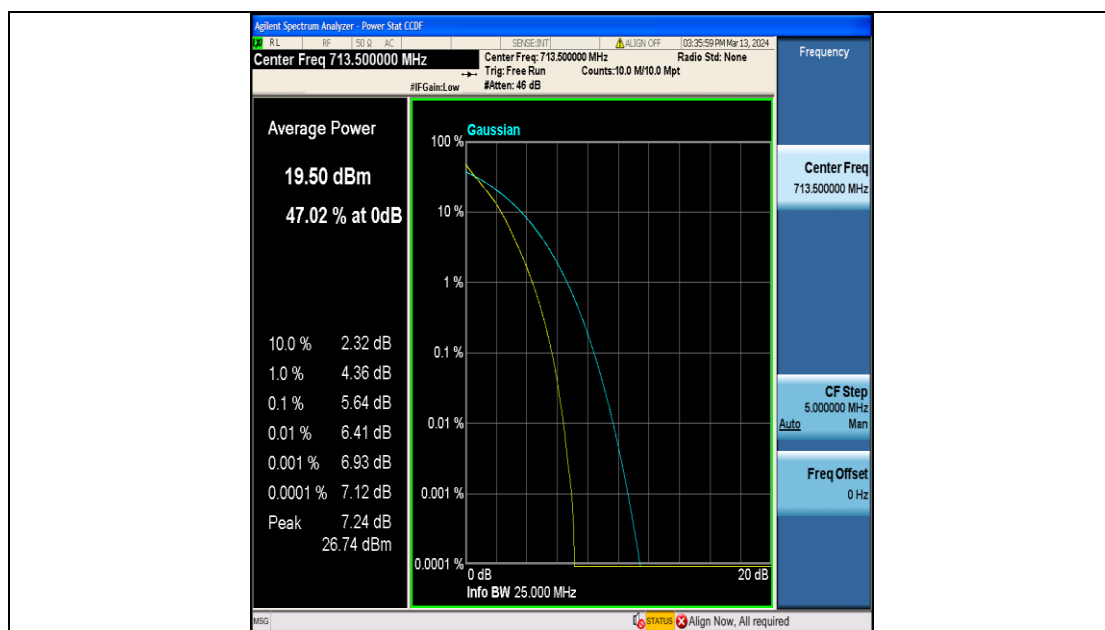




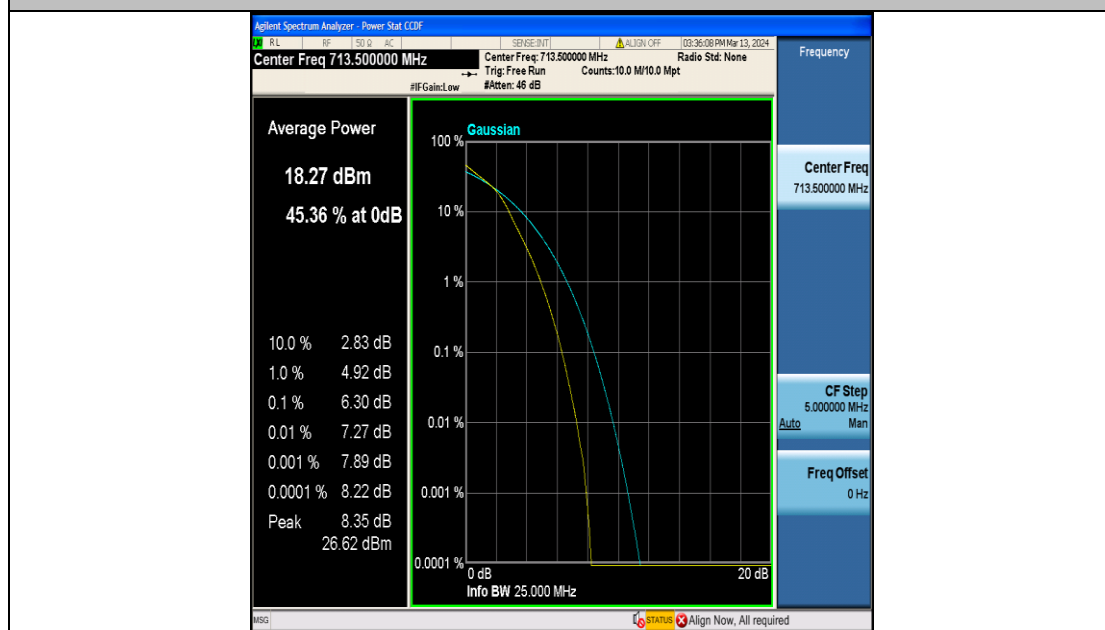
Band17-5MHz-QPSK-23790-25RB#0-PASS



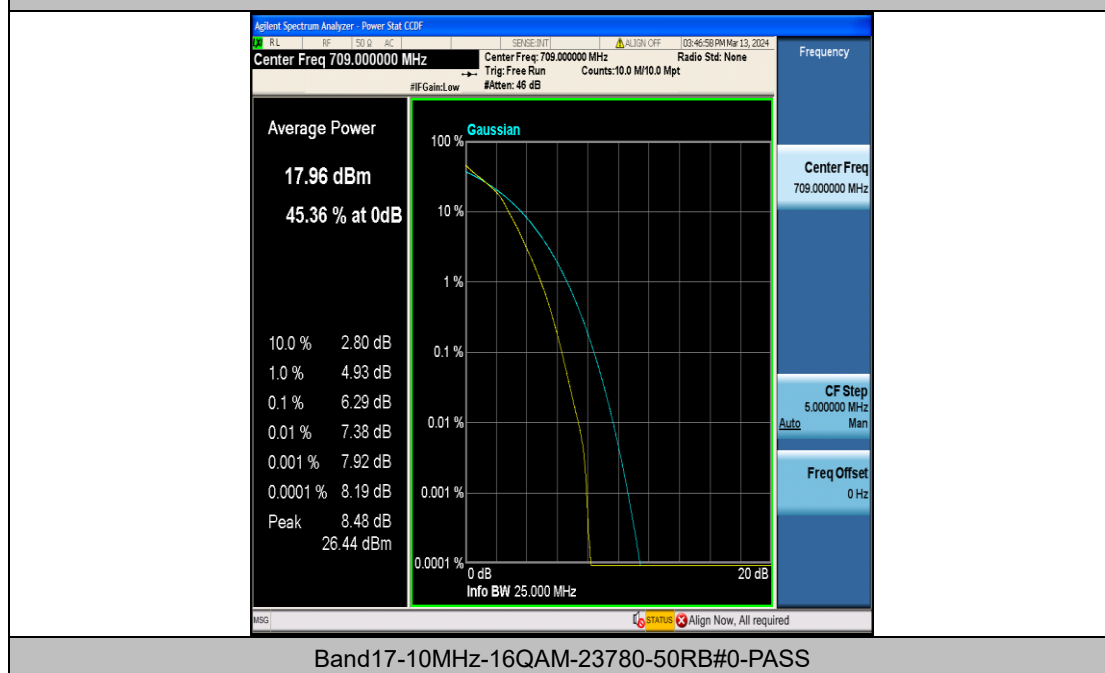
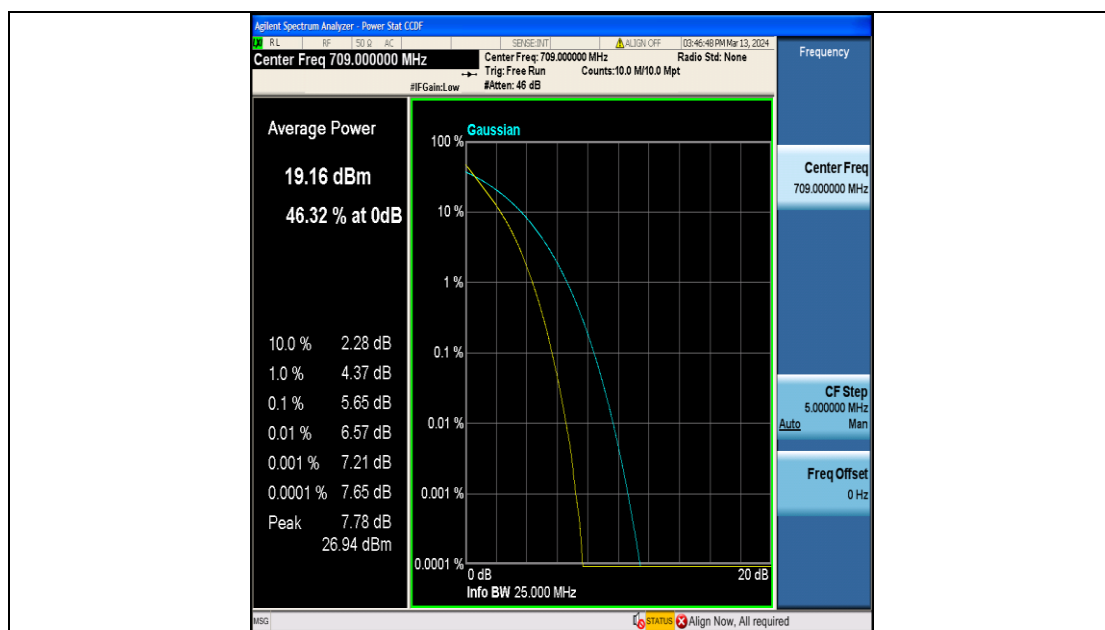
Band17-5MHz-16QAM-23790-25RB#0-PASS

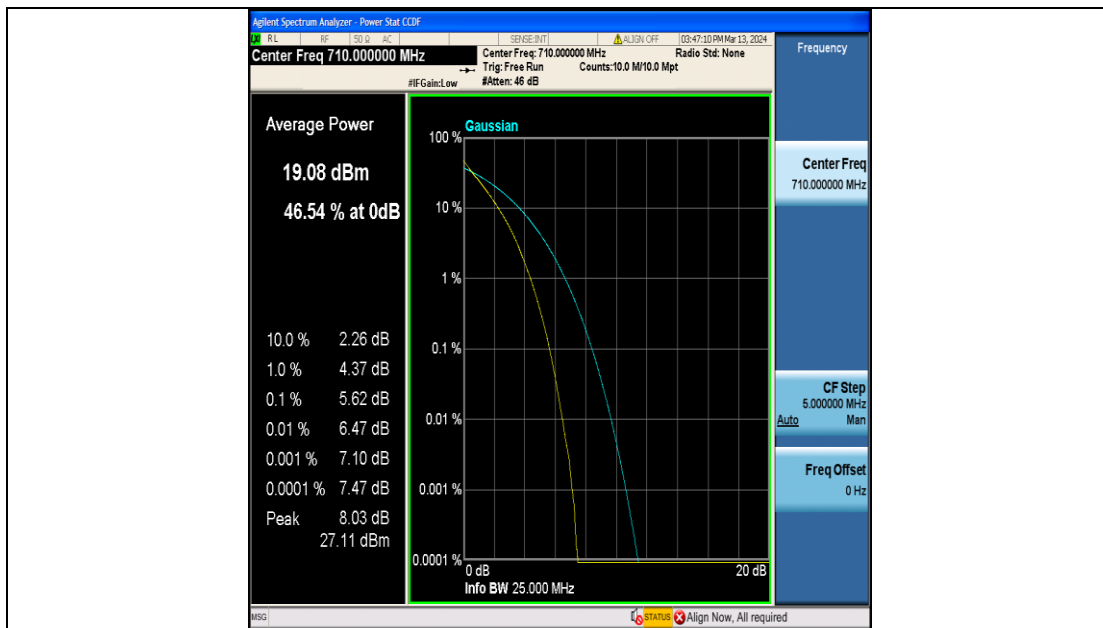


Band17-5MHz-QPSK-23825-25RB#0-PASS

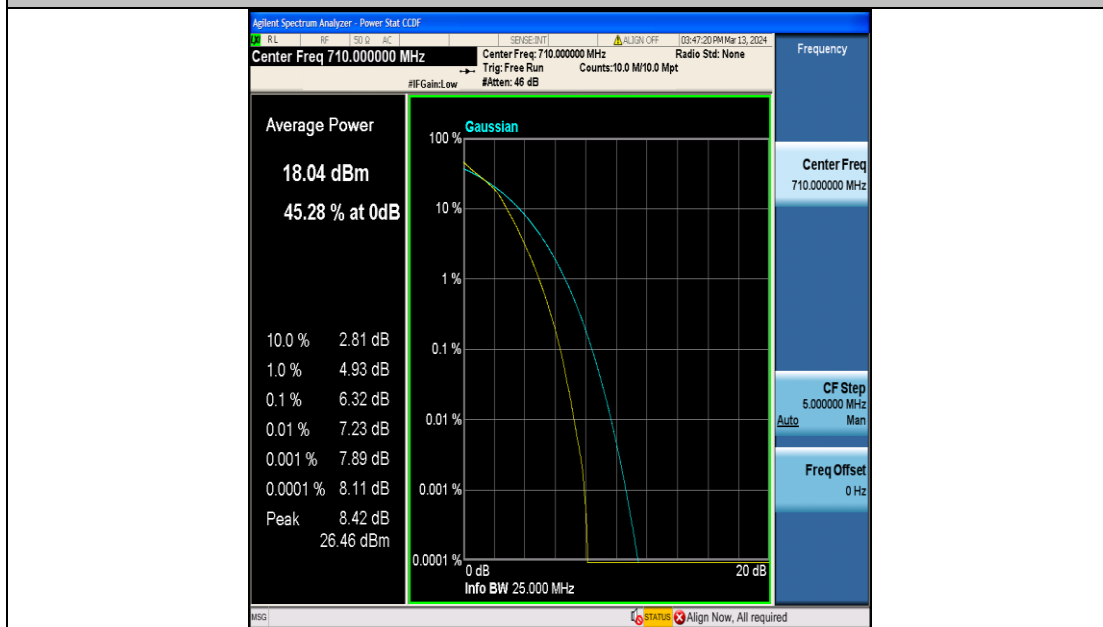


Band17-5MHz-16QAM-23825-25RB#0-PASS

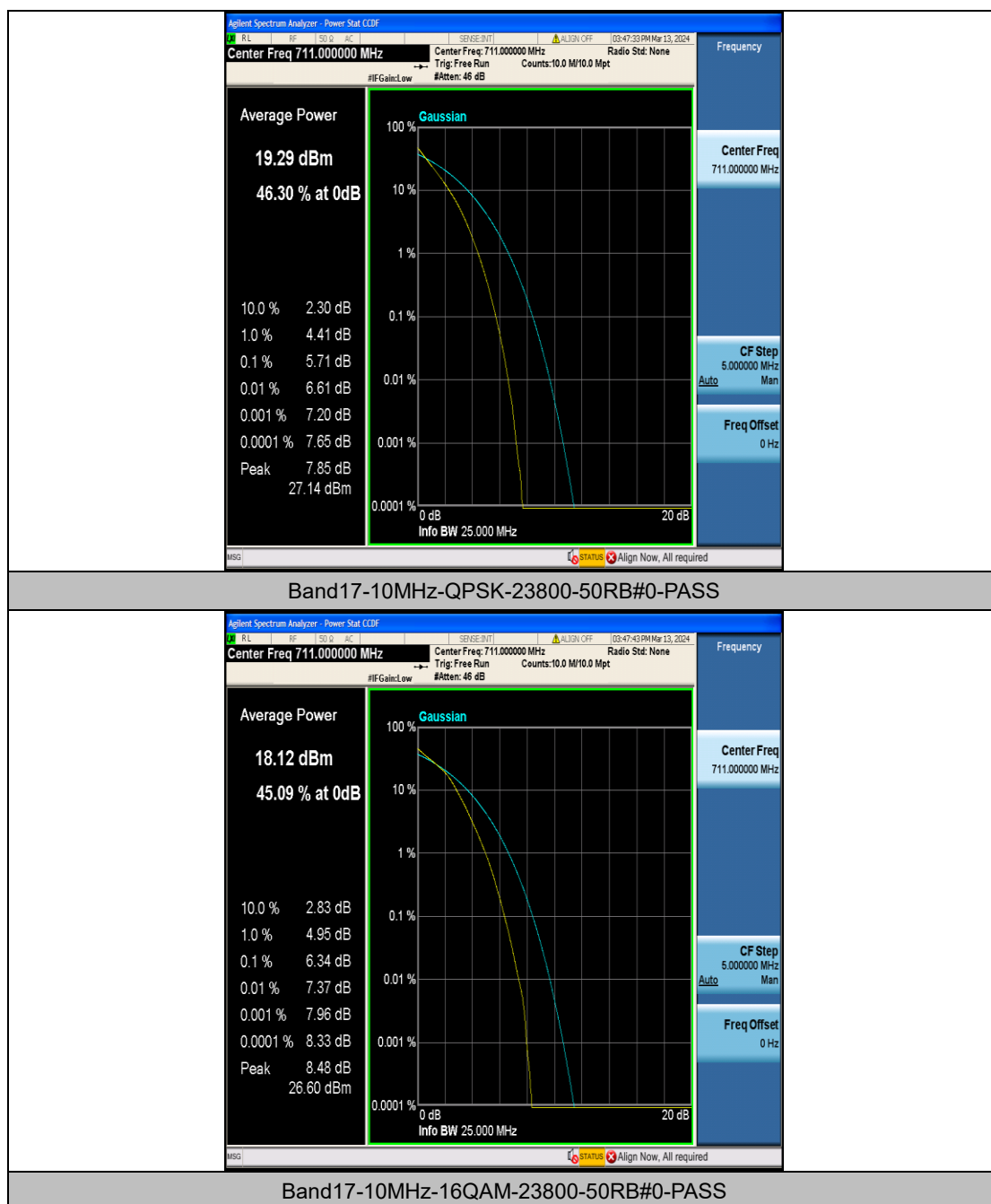




Band17-10MHz-QPSK-23790-50RB#0-PASS



Band17-10MHz-16QAM-23790-50RB#0-PASS

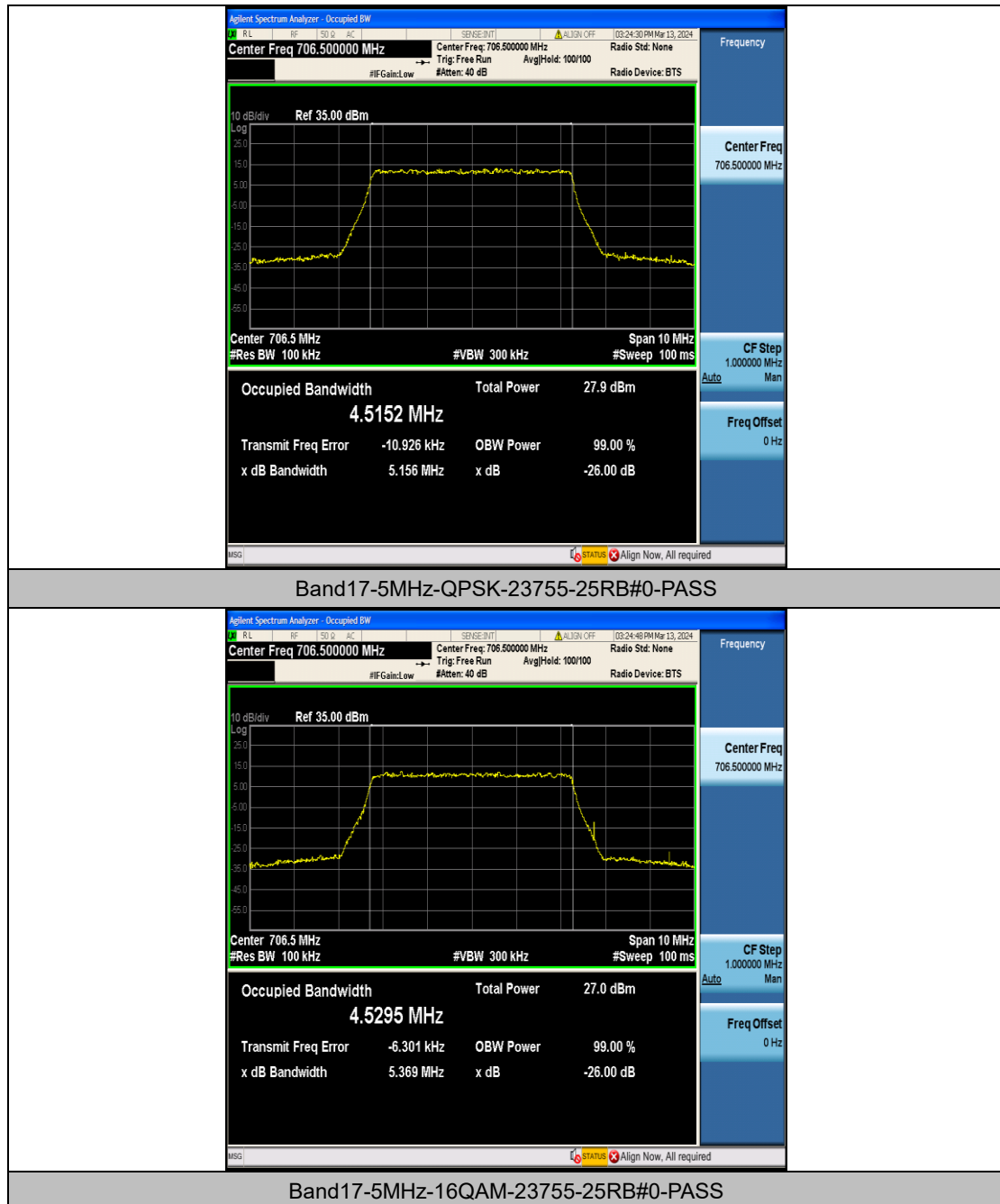


## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 4.5152                   | 5.156                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 4.5295                   | 5.369                | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 4.5201                   | 5.199                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 4.5211                   | 5.133                | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 4.5310                   | 5.199                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 4.5234                   | 5.141                | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 9.0028                   | 10.16                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 9.0046                   | 9.997                | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 9.0078                   | 10.15                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 9.0015                   | 10.09                | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 9.0139                   | 10.21                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 9.0111                   | 10.01                | PASS    |

## Test Graphs

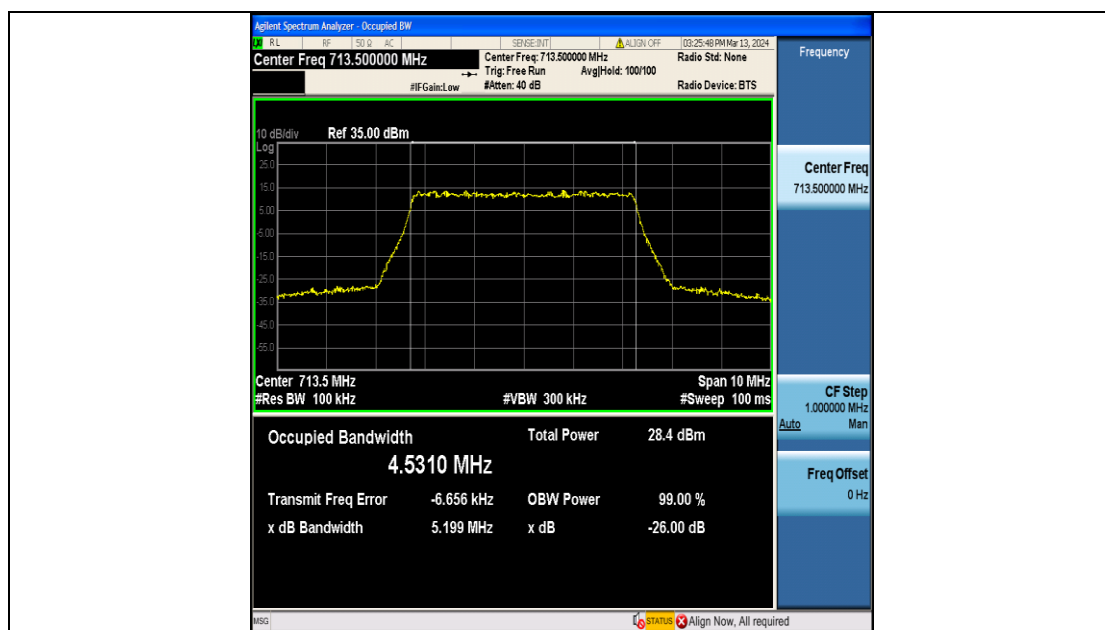




### Band17-5MHz-QPSK-23790-25RB#0-PASS



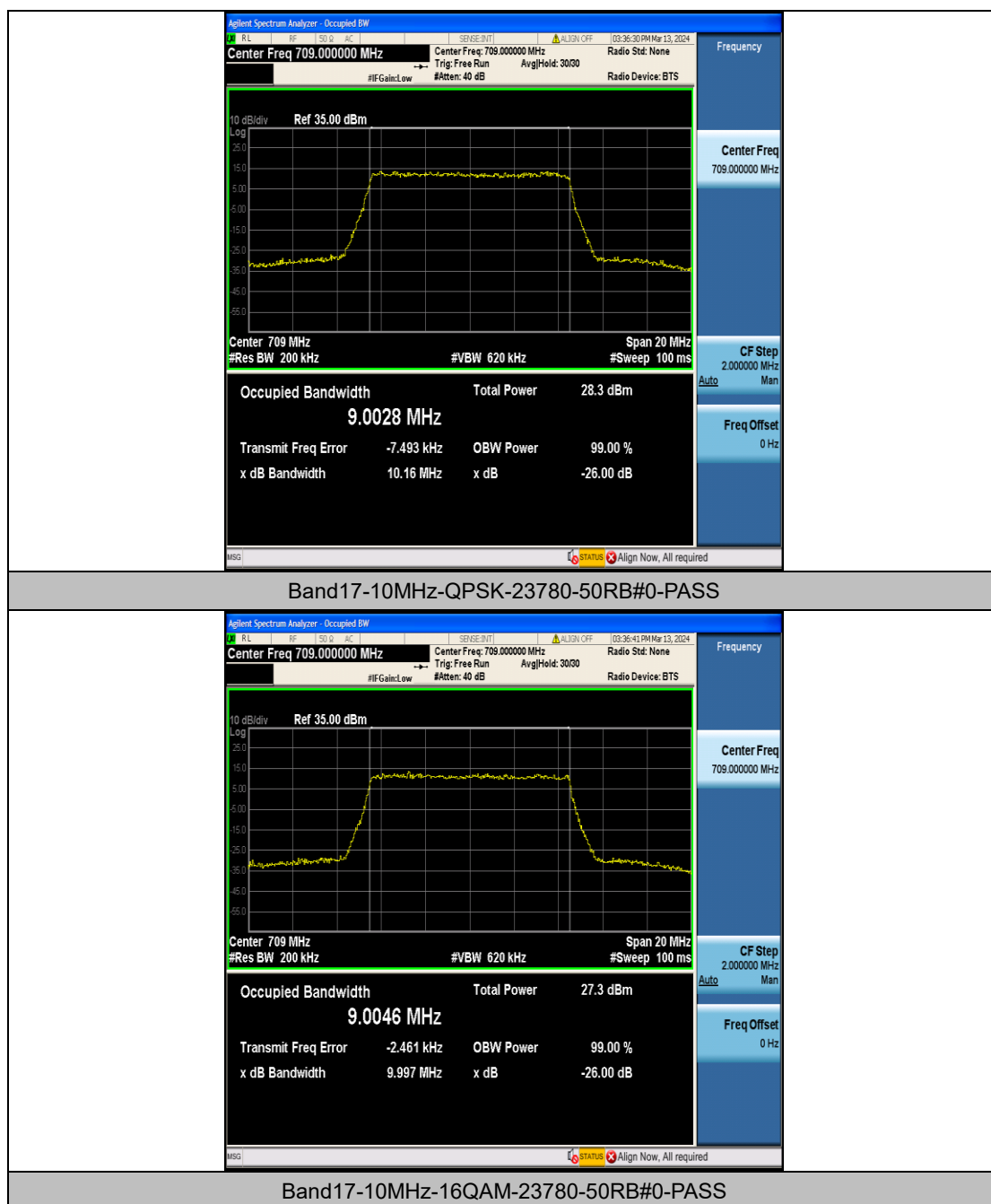
### Band17-5MHz-16QAM-23790-25RB#0-PASS

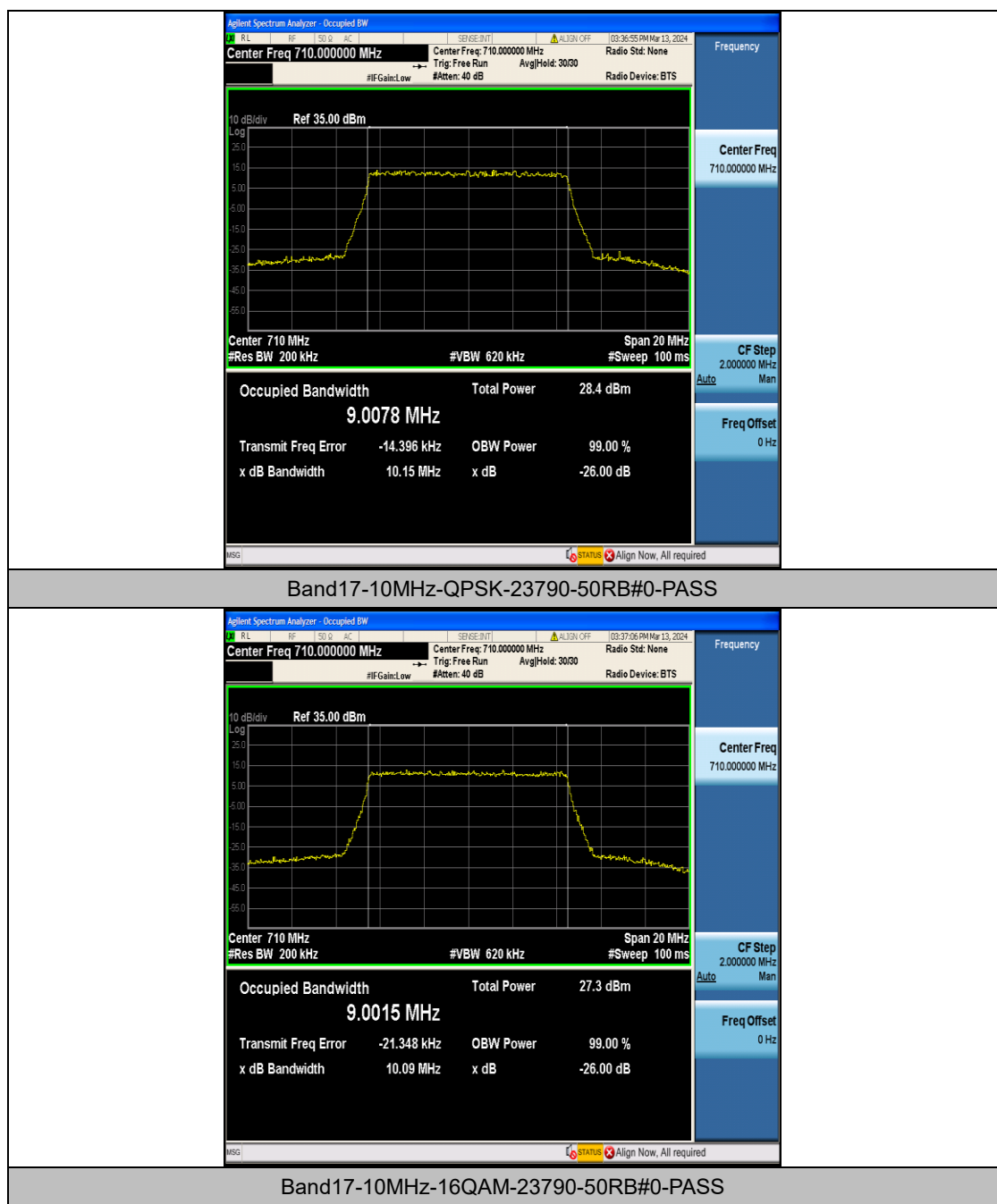


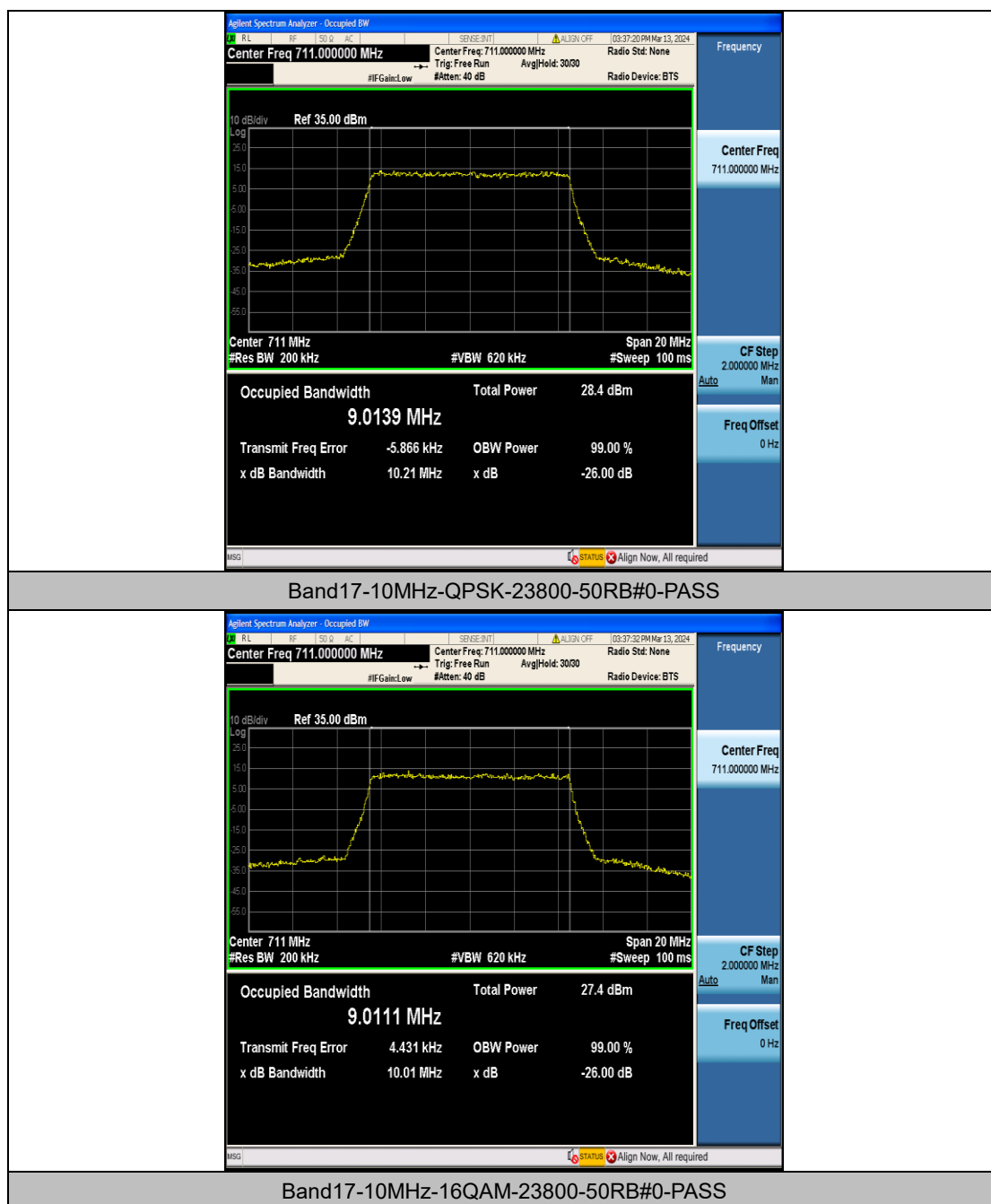
Band17-5MHz-QPSK-23825-25RB#0-PASS



Band17-5MHz-16QAM-23825-25RB#0-PASS





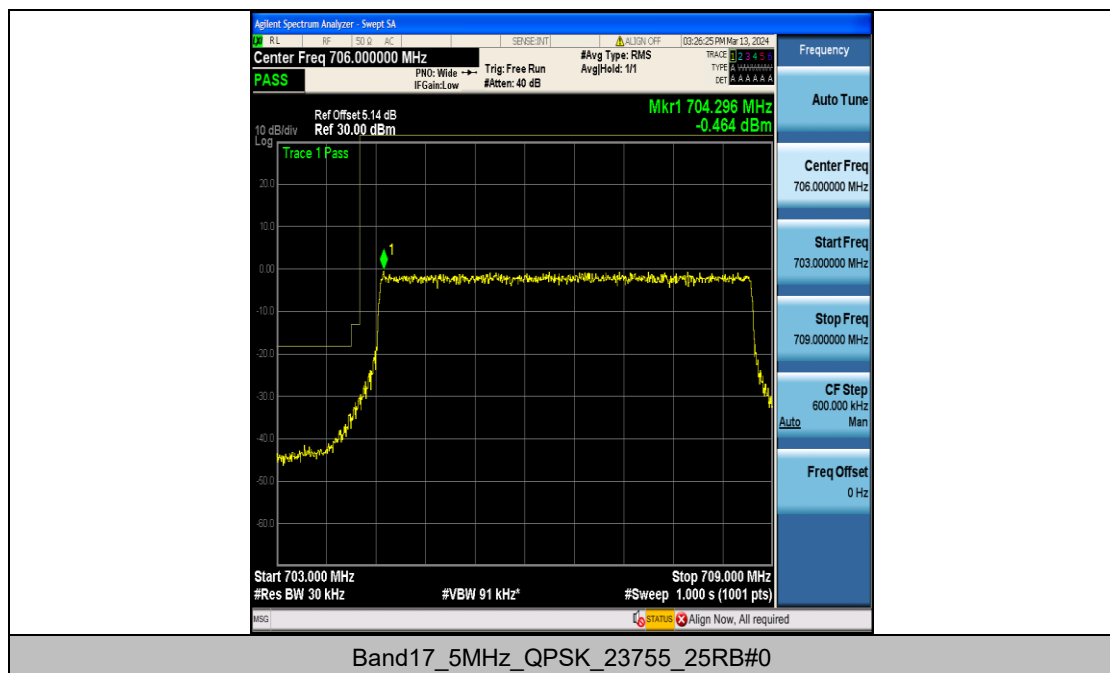


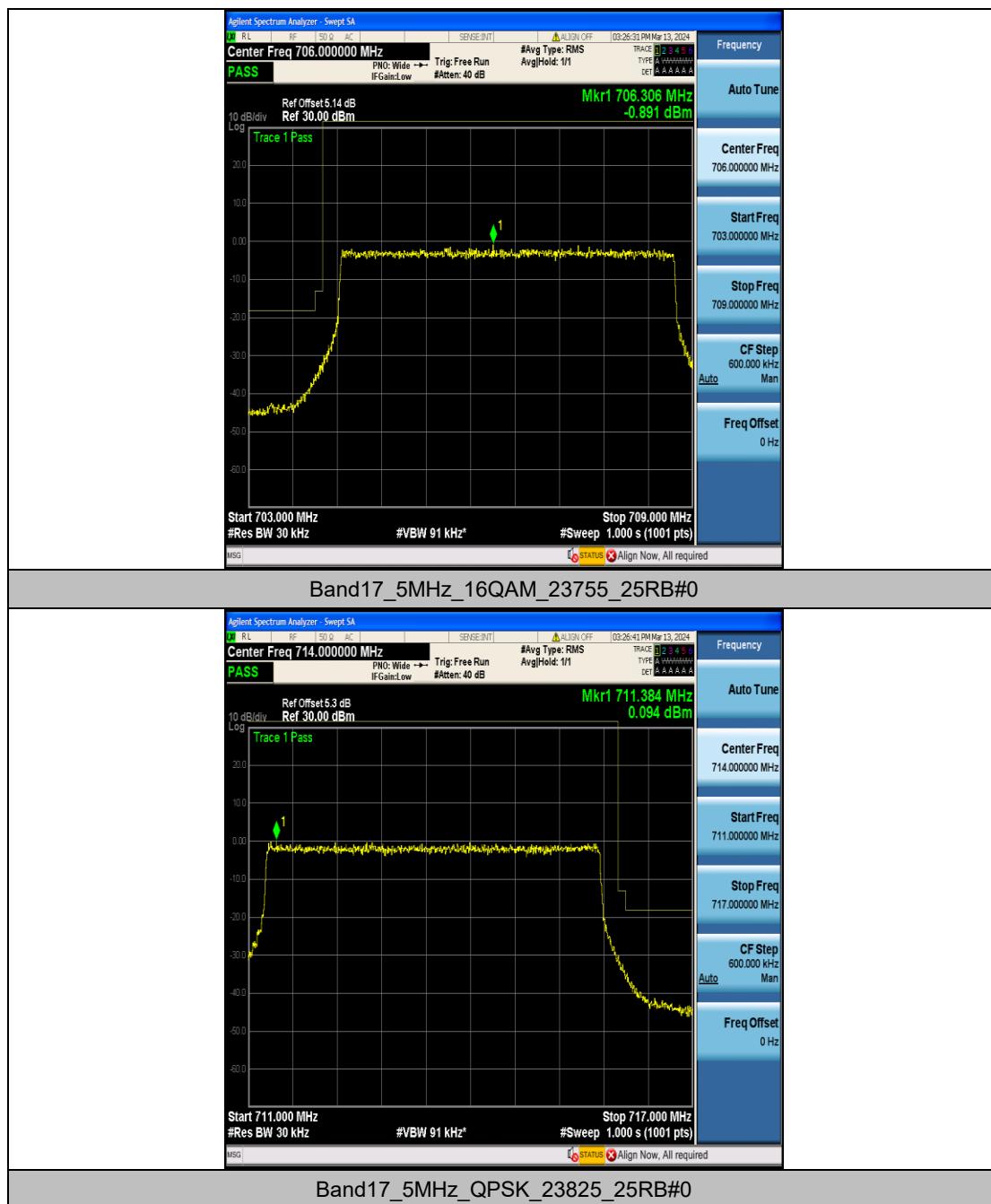
## Appendix D: Band Edge

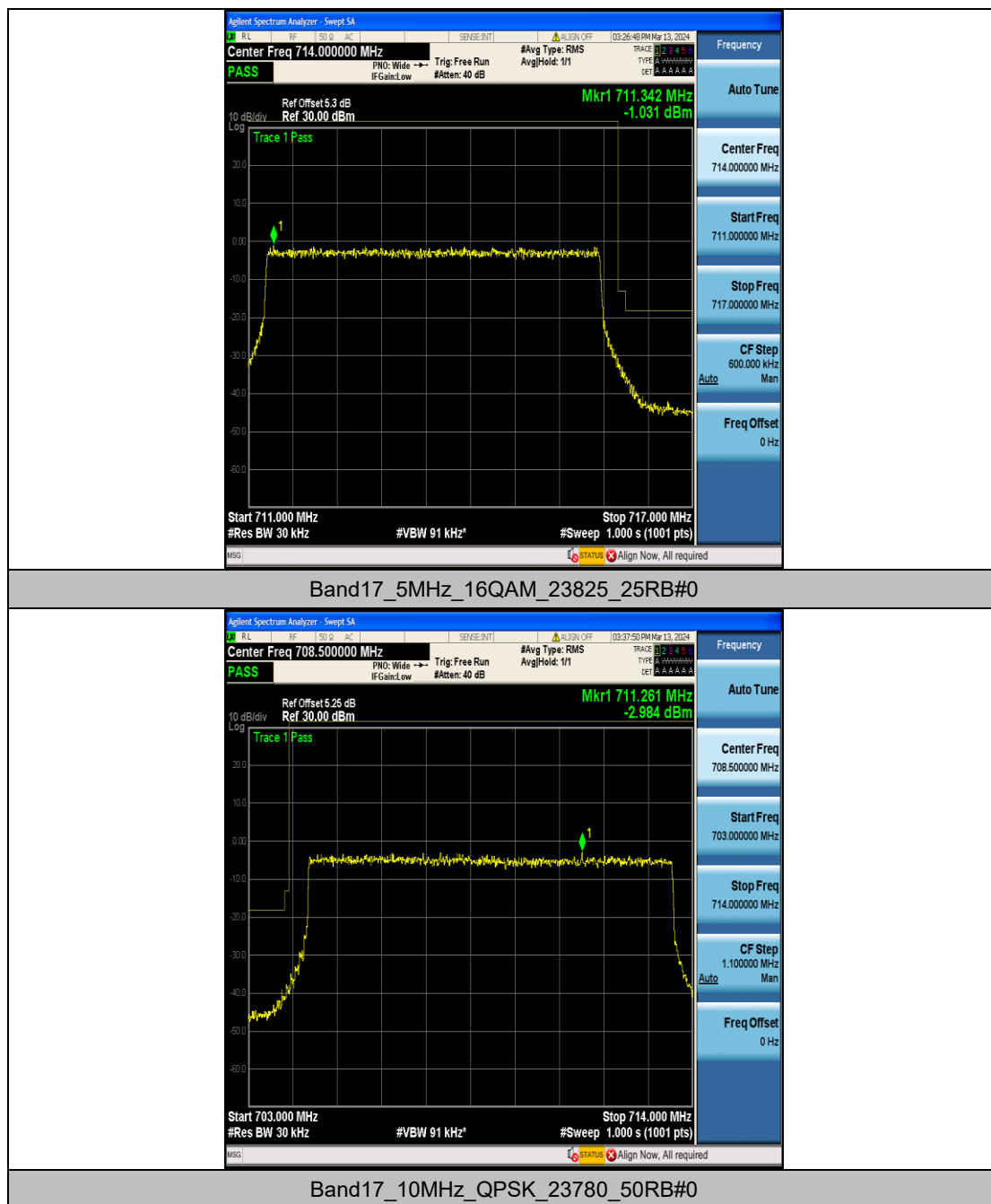
### Test Result

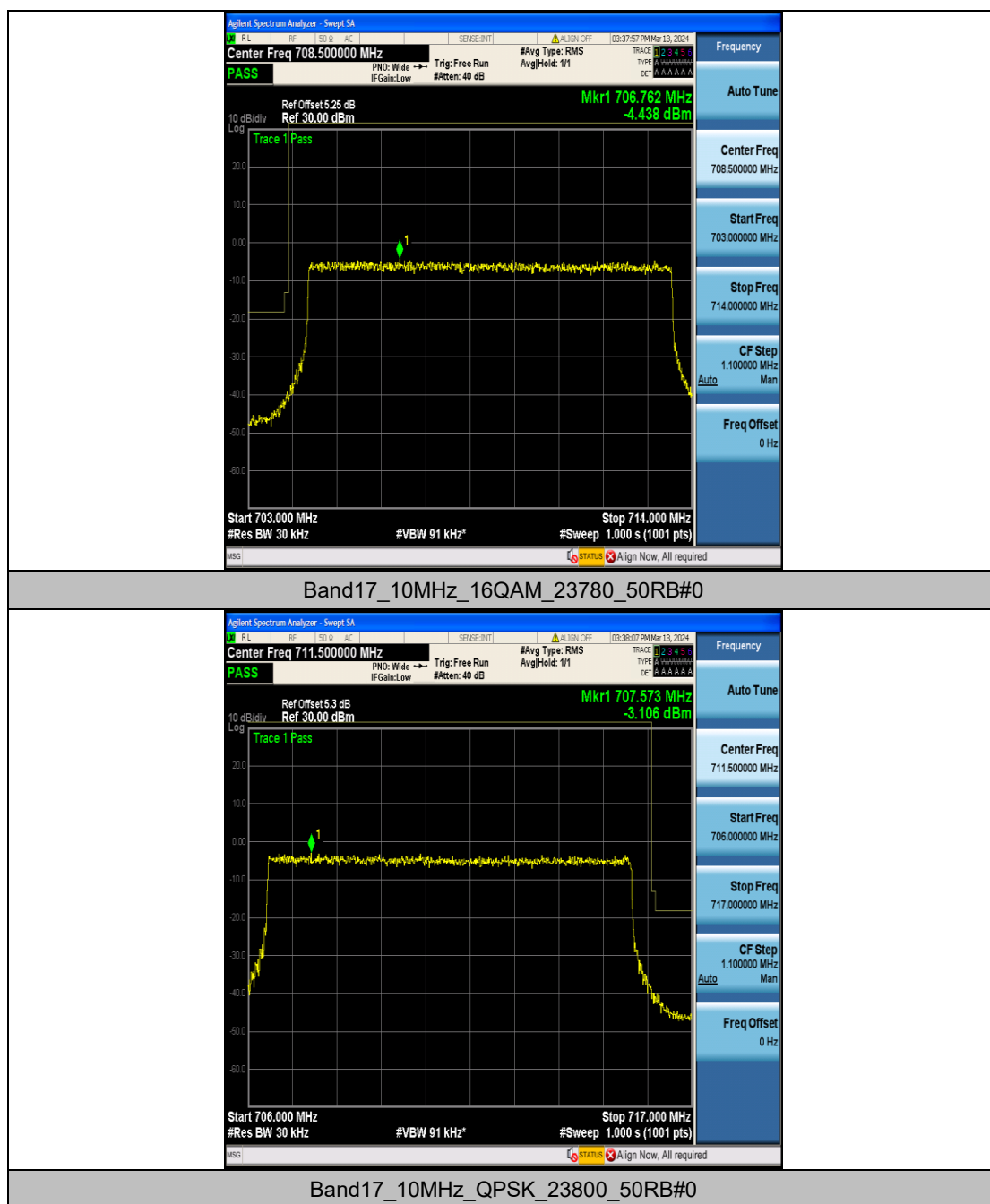
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | -34.09      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | -35.97      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | -34.62      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | -35.61      | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | -39.00      | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | -41.21      | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | -40.27      | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | -41.96      | PASS    |

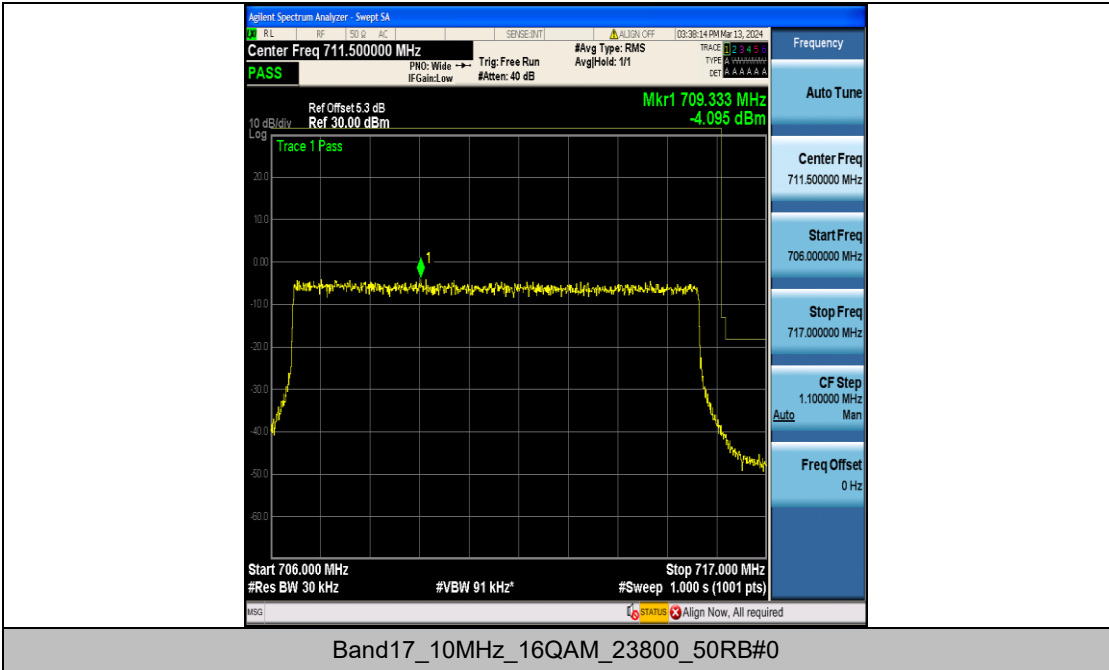
### Test Graphs











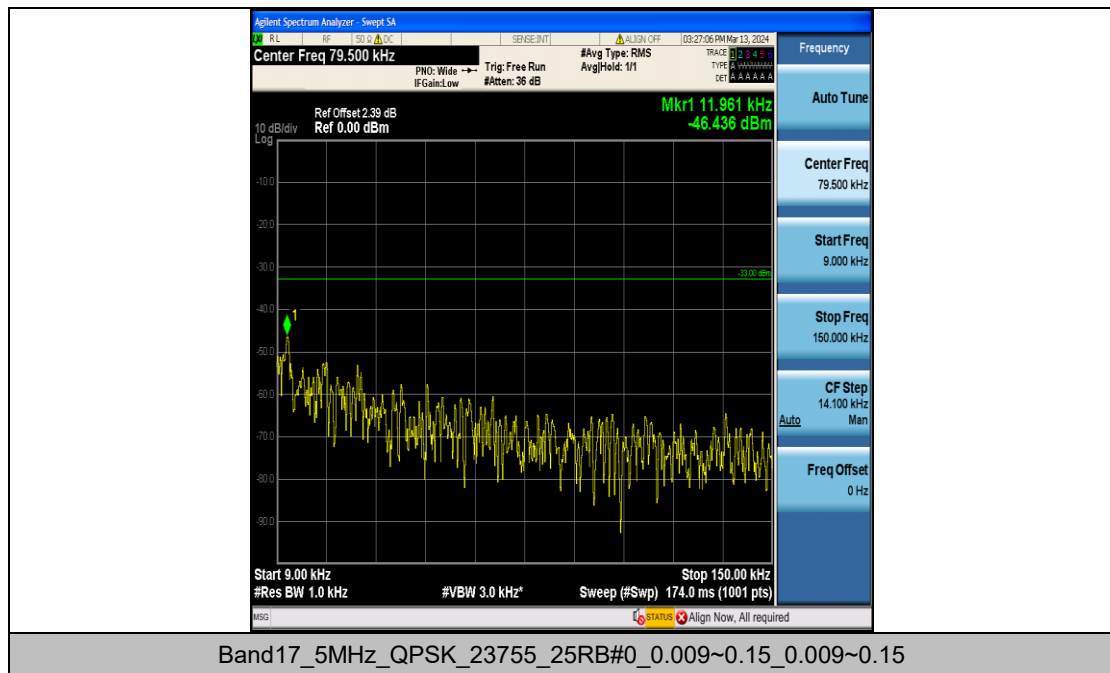
## Appendix E: Conducted Spurious Emission

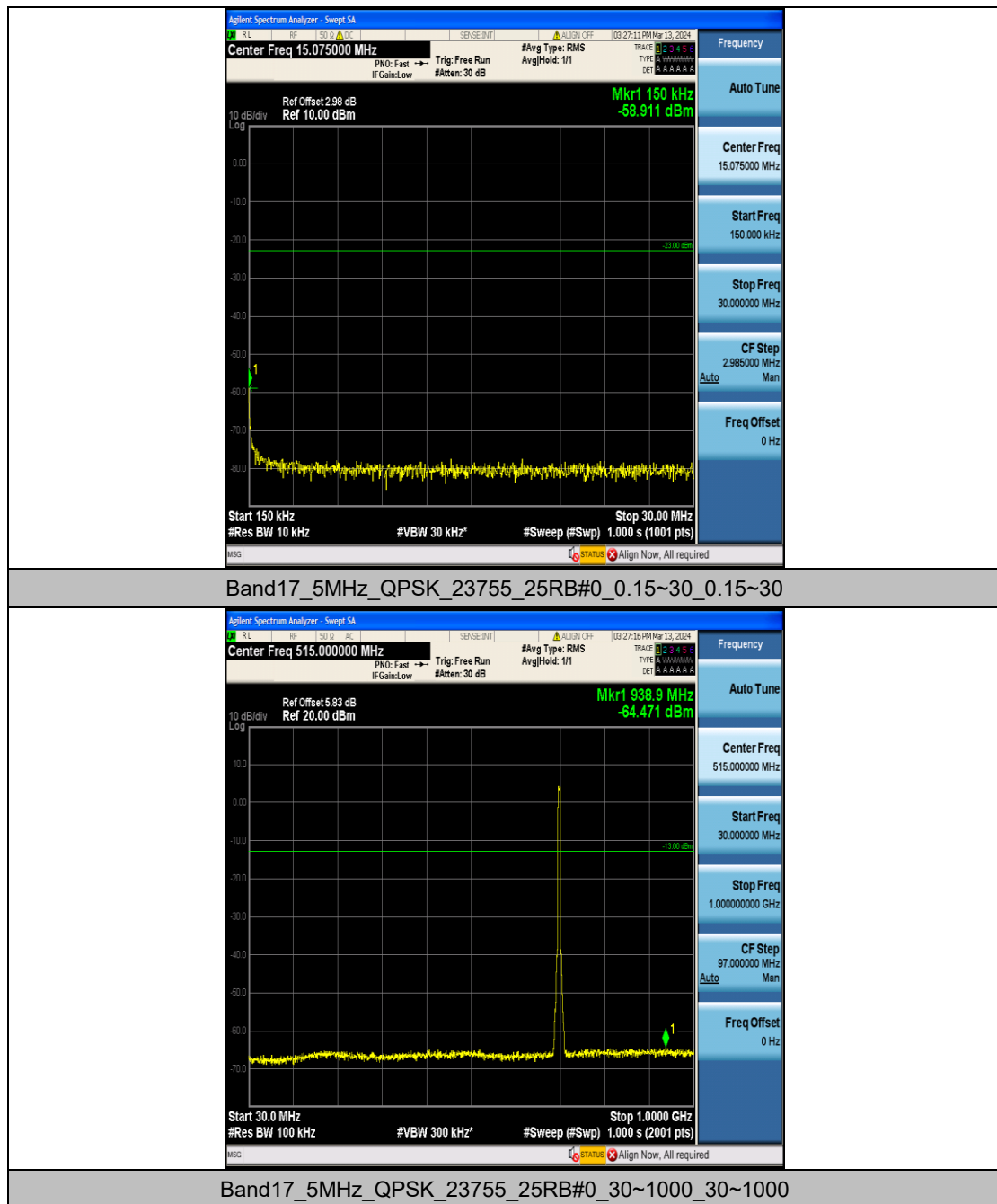
### Test Result

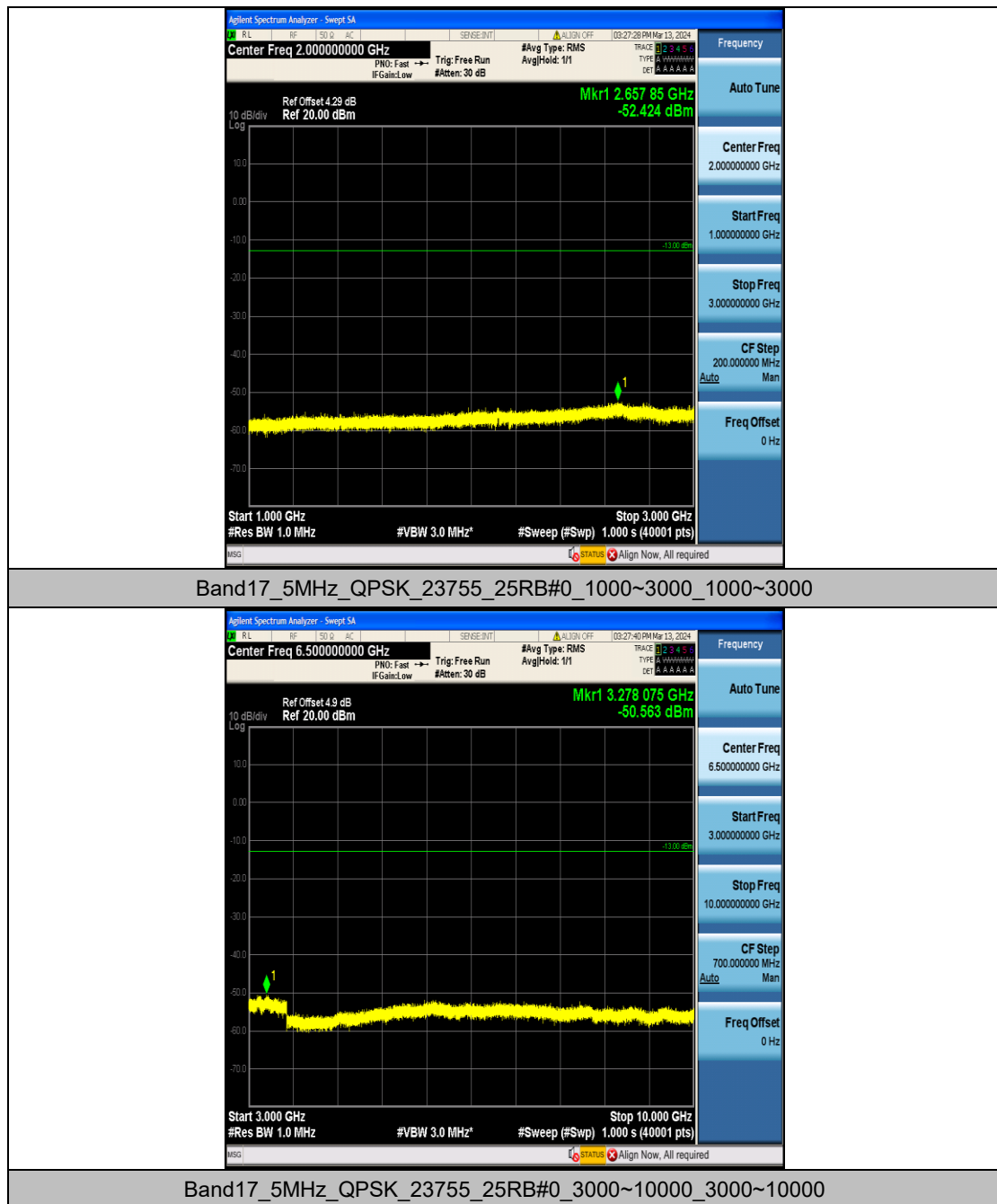
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-----------------|--------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 0.009~0.15      | -46.44       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 0.15~30         | -58.91       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 30~1000         | -64.47       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 1000~3000       | -52.42       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 3000~10000      | -50.56       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 0.009~0.15      | -47.30       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 0.15~30         | -59.29       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 30~1000         | -64.22       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 1000~3000       | -52.48       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 3000~10000      | -50.64       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 0.009~0.15      | -48.15       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 0.15~30         | -56.86       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 30~1000         | -64.47       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 1000~3000       | -52.46       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 3000~10000      | -50.60       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 0.009~0.15      | -48.46       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 0.15~30         | -58.28       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 30~1000         | -64.28       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 1000~3000       | -52.47       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 3000~10000      | -50.41       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 0.009~0.15      | -49.00       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 0.15~30         | -57.53       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 30~1000         | -64.21       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 1000~3000       | -52.50       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 3000~10000      | -50.56       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 0.009~0.15      | -43.05       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 0.15~30         | -59.34       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 30~1000         | -63.98       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 1000~3000       | -52.16       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 3000~10000      | -50.38       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 0.009~0.15      | -49.18       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 0.15~30         | -58.86       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 30~1000         | -64.22       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 1000~3000       | -52.83       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 3000~10000      | -50.38       | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 0.009~0.15      | -47.36       | PASS    |

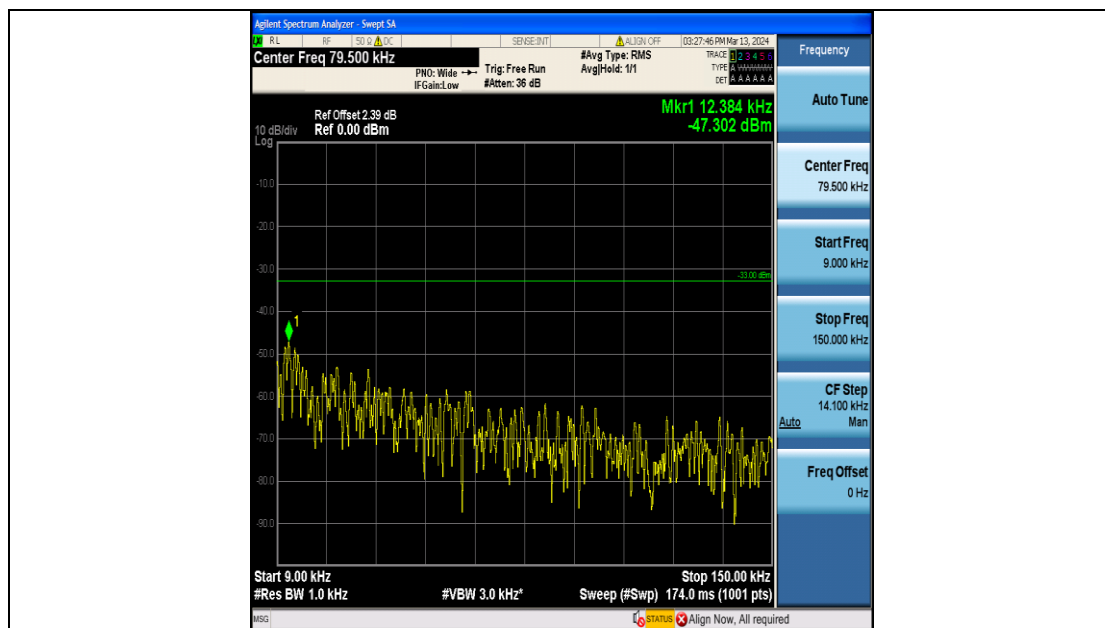
|        |       |       |       |        |            |        |      |
|--------|-------|-------|-------|--------|------------|--------|------|
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | 0.15~30    | -60.13 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | 30~1000    | -64.44 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | 1000~3000  | -52.44 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0 | 3000~10000 | -50.43 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0 | 0.009~0.15 | -48.90 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0 | 0.15~30    | -58.82 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0 | 30~1000    | -64.49 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0 | 1000~3000  | -52.57 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0 | 3000~10000 | -49.84 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | 0.009~0.15 | -50.14 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | 0.15~30    | -58.78 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | 30~1000    | -64.14 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | 1000~3000  | -52.52 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0 | 3000~10000 | -50.58 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0 | 0.009~0.15 | -47.51 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0 | 0.15~30    | -58.23 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0 | 30~1000    | -64.39 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0 | 1000~3000  | -52.46 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0 | 3000~10000 | -50.40 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | 0.009~0.15 | -44.55 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | 0.15~30    | -60.17 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | 30~1000    | -64.40 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | 1000~3000  | -52.39 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0 | 3000~10000 | -50.60 | PASS |

## Test Graphs

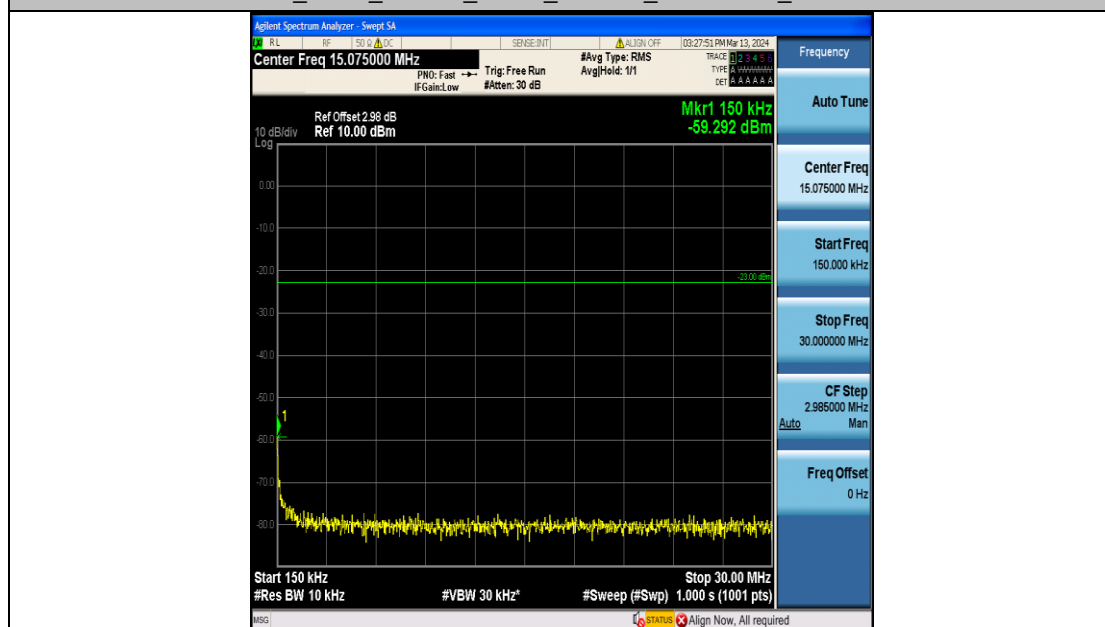




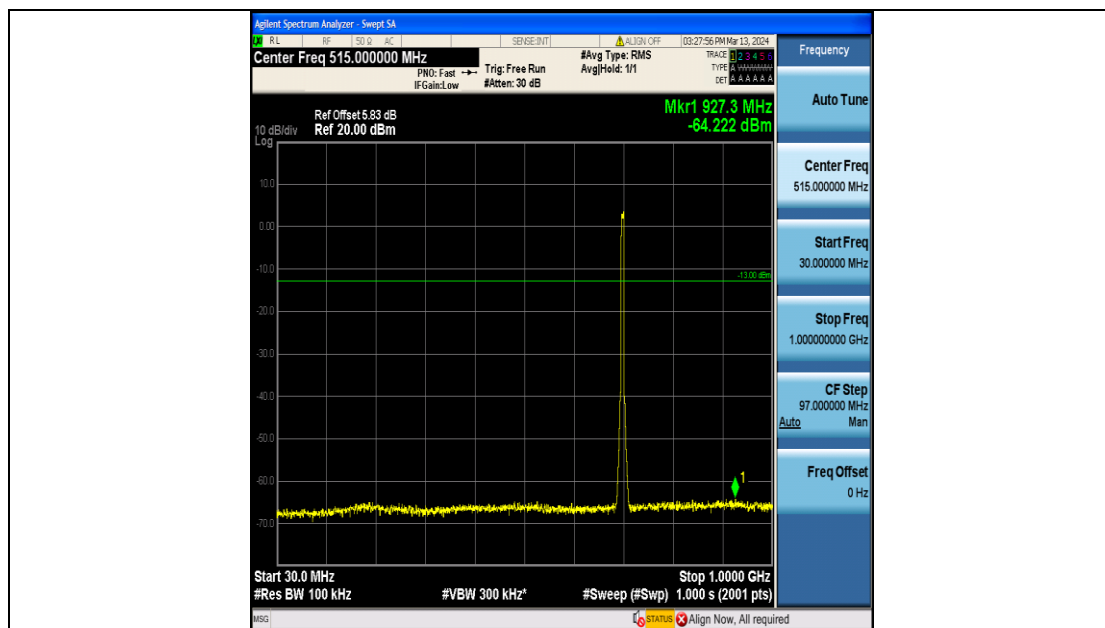




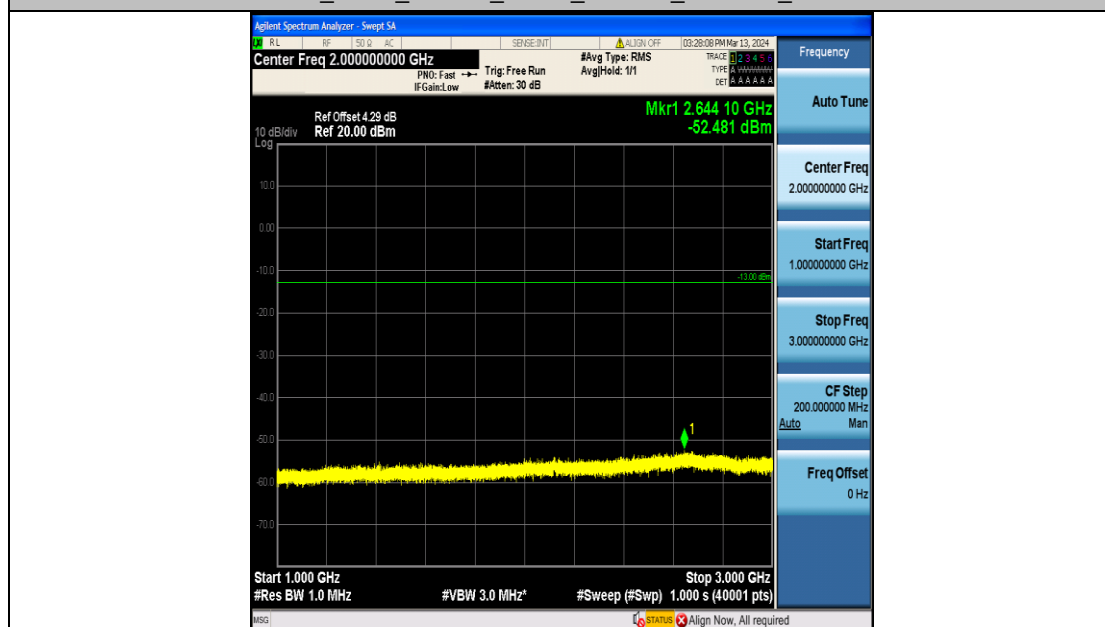
Band17\_5MHz\_16QAM\_23755\_25RB#0\_0.009~0.15\_0.009~0.15



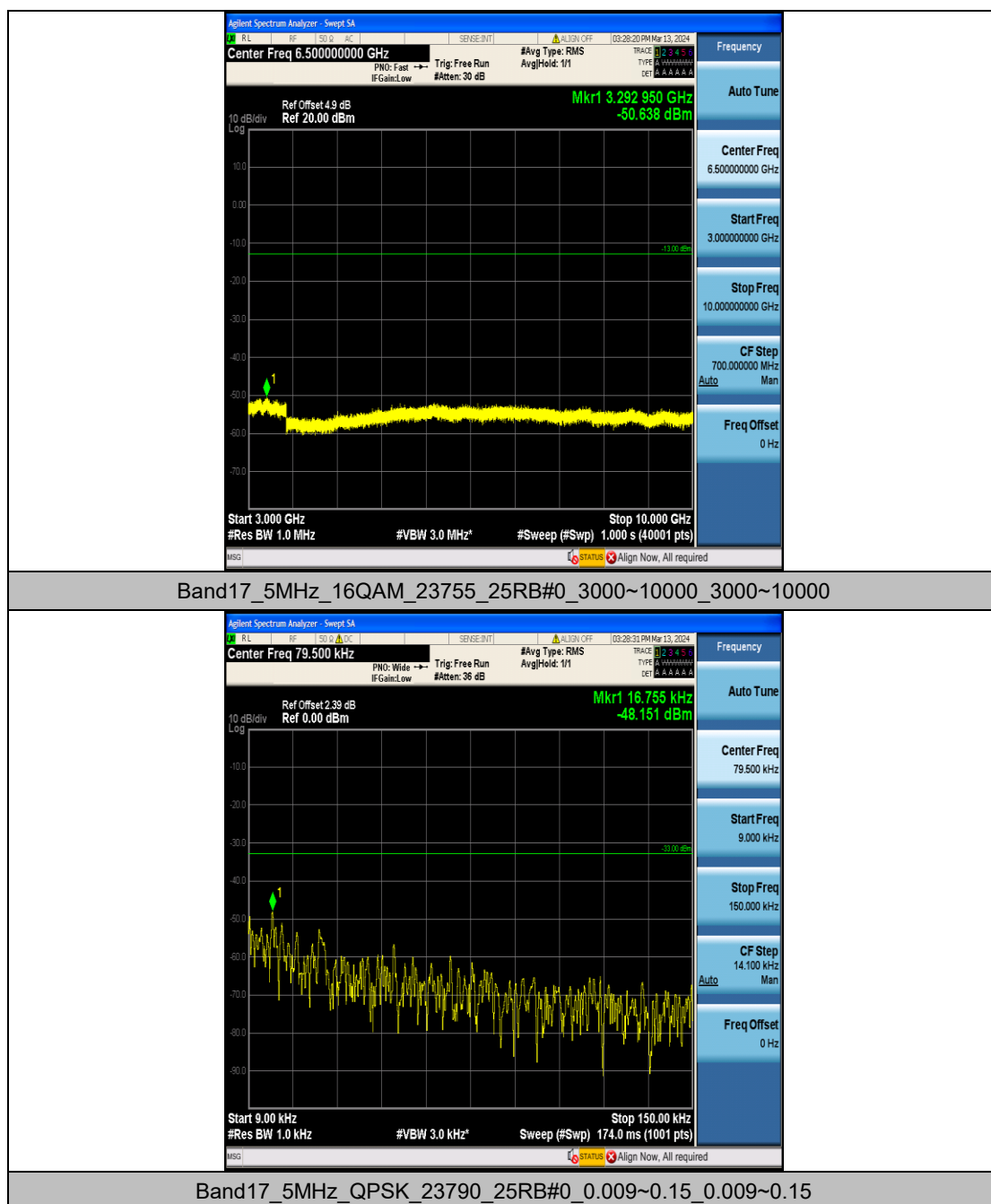
Band17\_5MHz\_16QAM\_23755\_25RB#0\_0.15~30\_0.15~30

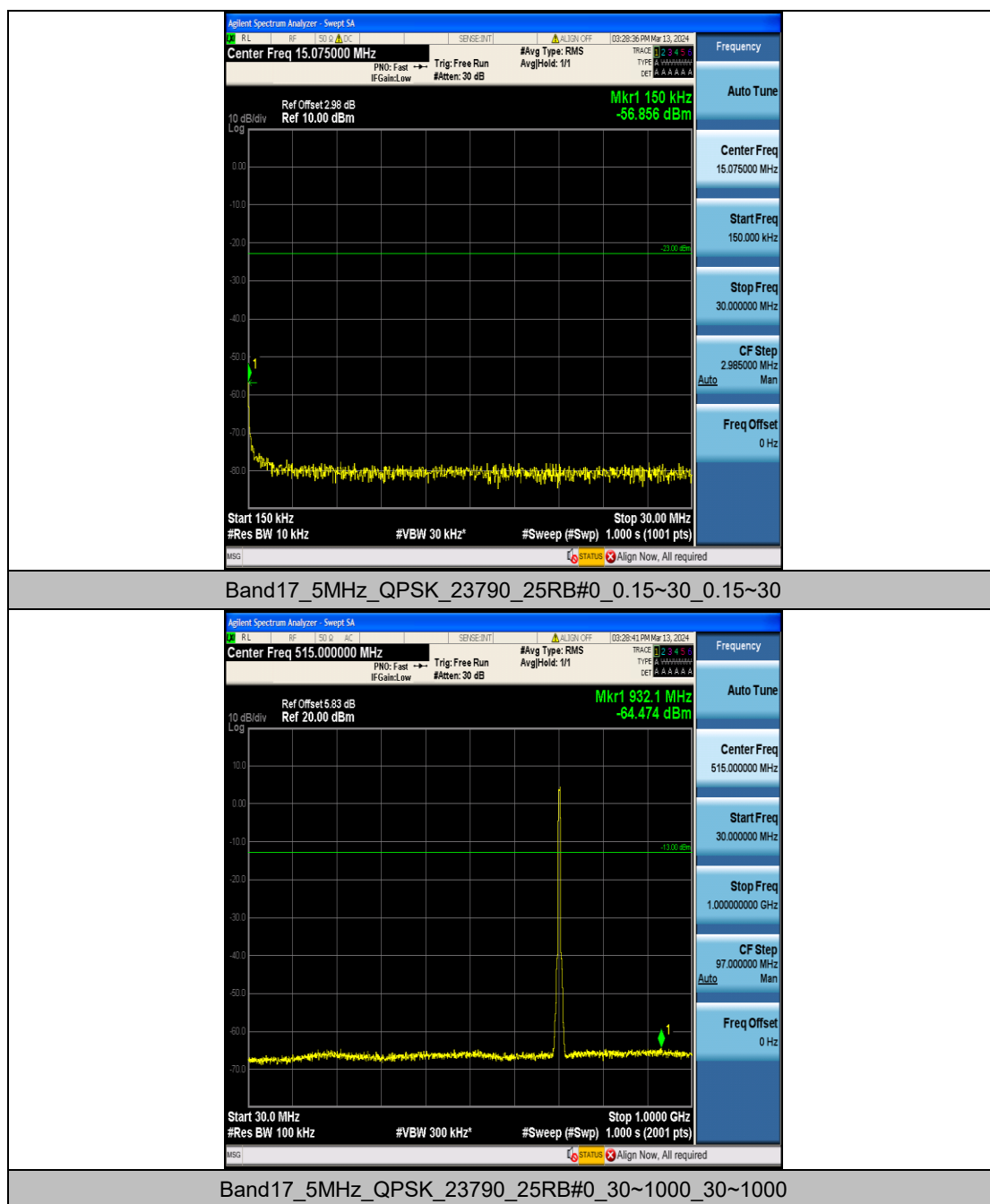


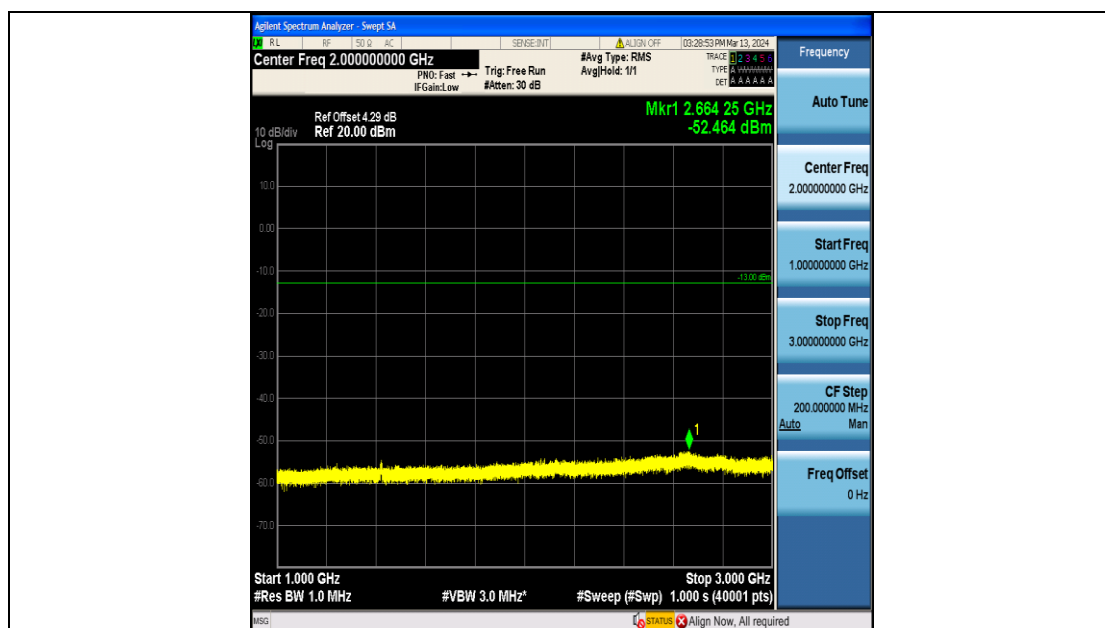
Band17\_5MHz\_16QAM\_23755\_25RB#0\_30~1000\_30~1000



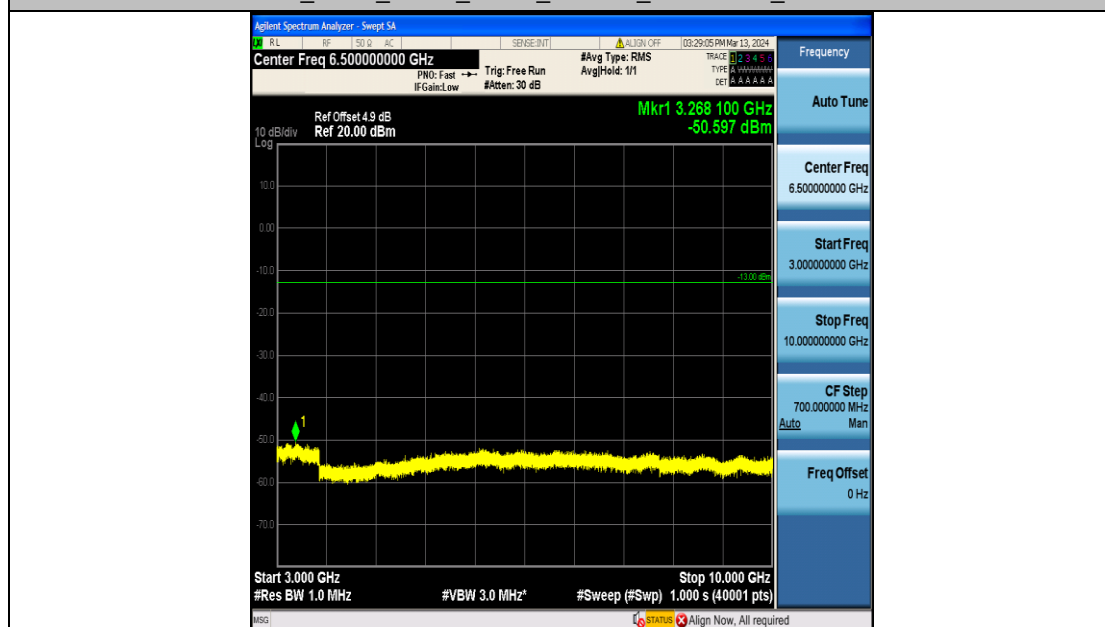
Band17\_5MHz\_16QAM\_23755\_25RB#0\_1000~3000\_1000~3000



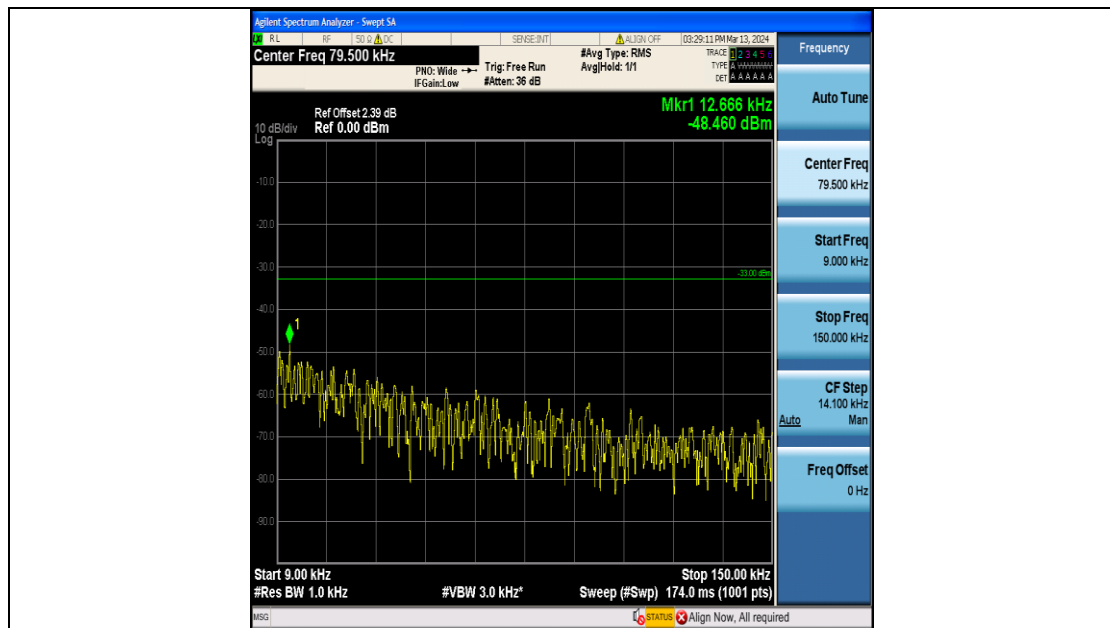




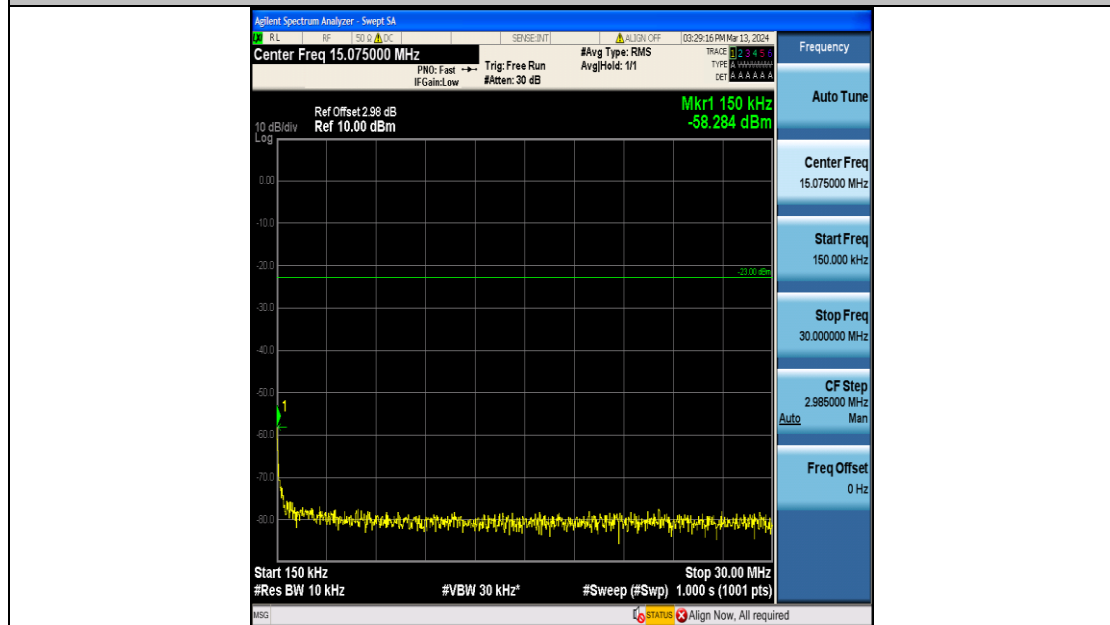
Band17\_5MHz\_QPSK\_23790\_25RB#0\_1000~3000\_1000~3000



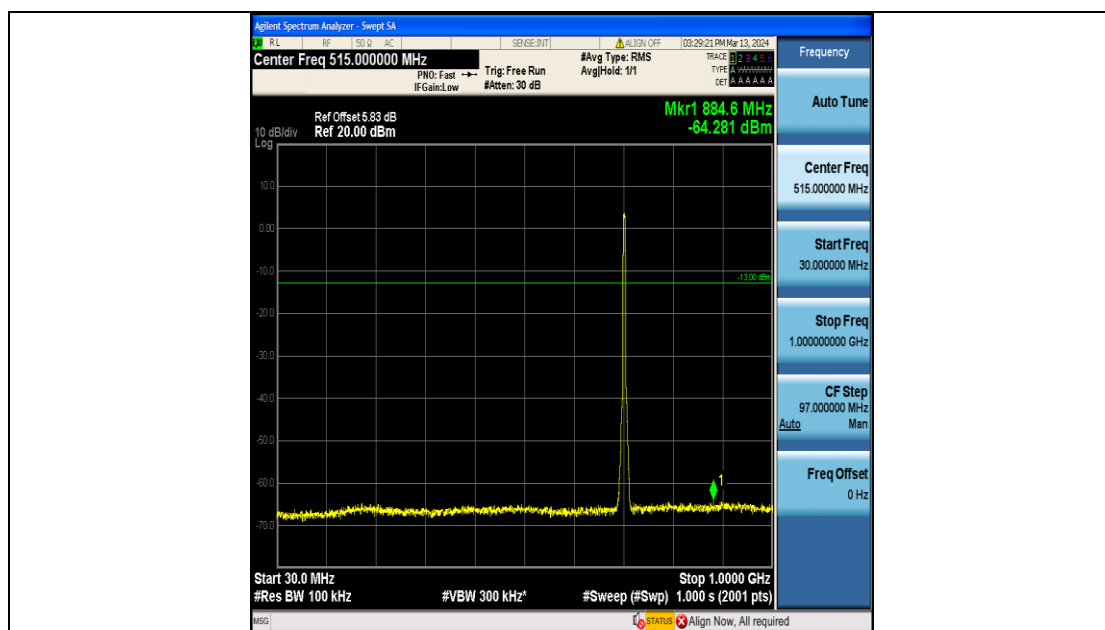
Band17\_5MHz\_QPSK\_23790\_25RB#0\_3000~10000\_3000~10000



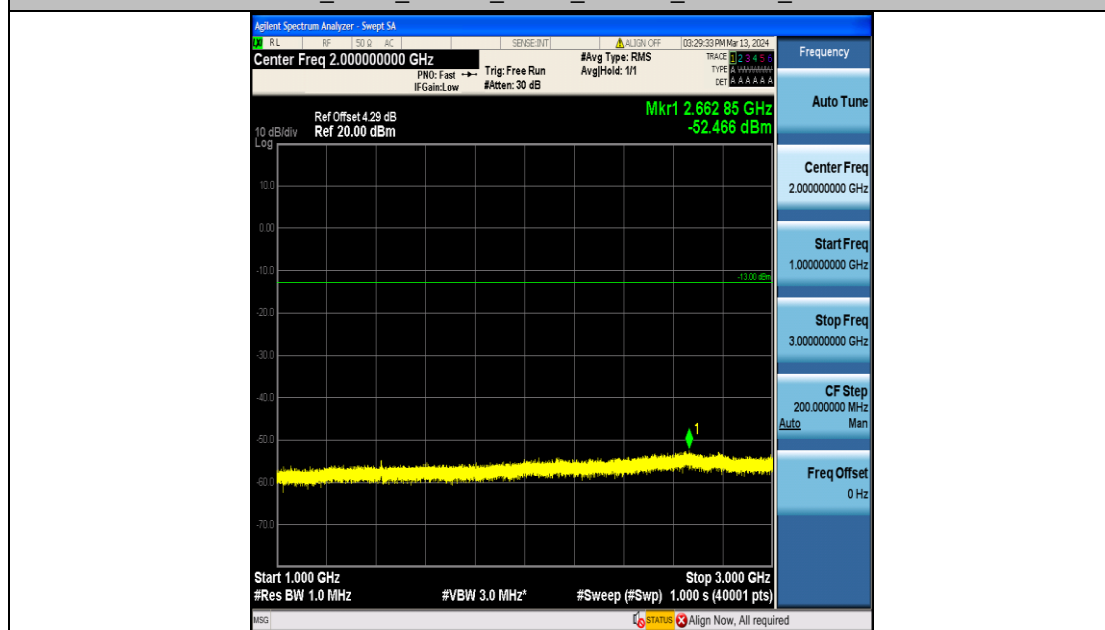
Band17\_5MHz\_16QAM\_23790\_25RB#0\_0.009~0.15\_0.009~0.15



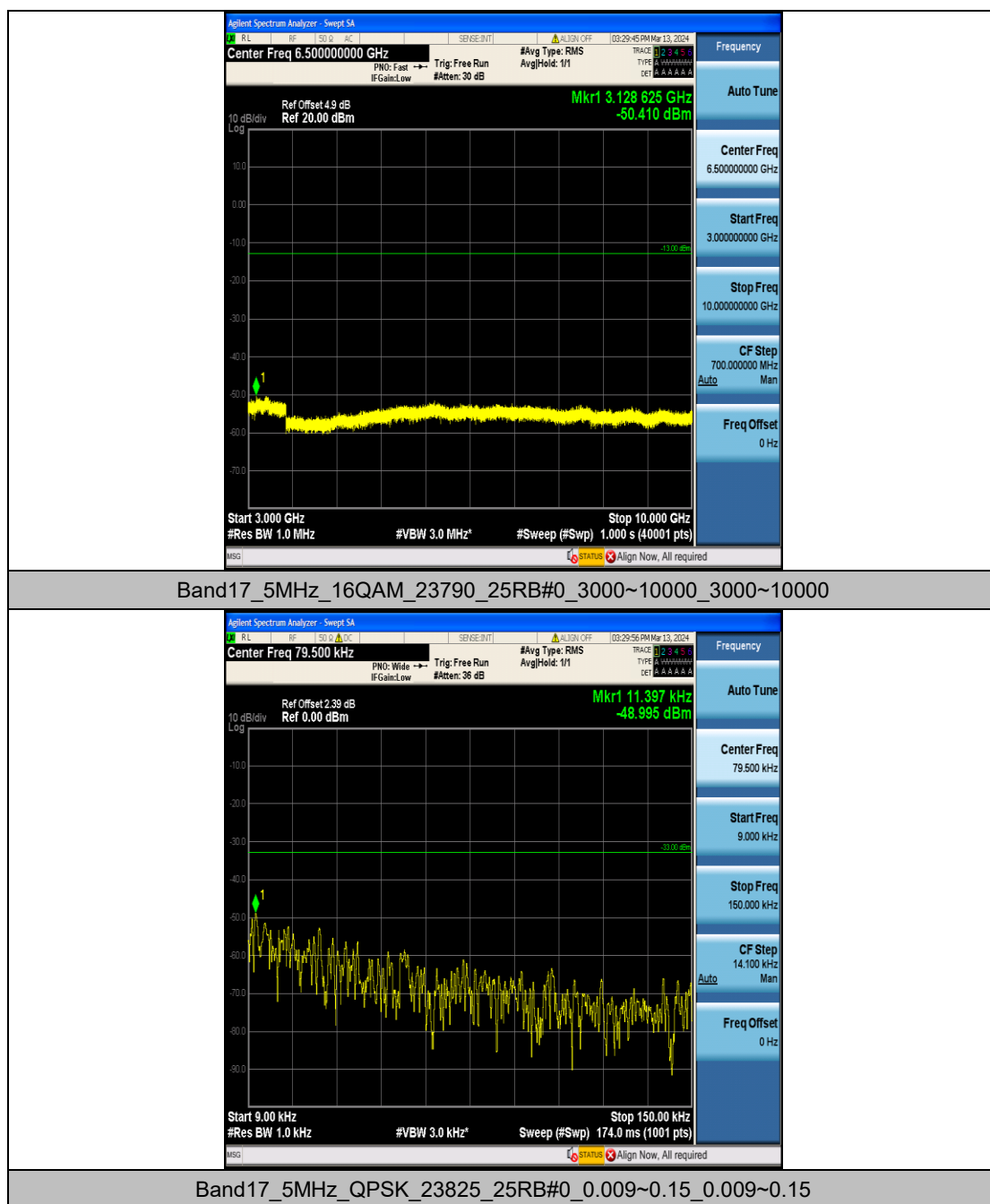
Band17\_5MHz\_16QAM\_23790\_25RB#0\_0.15~30\_0.15~30

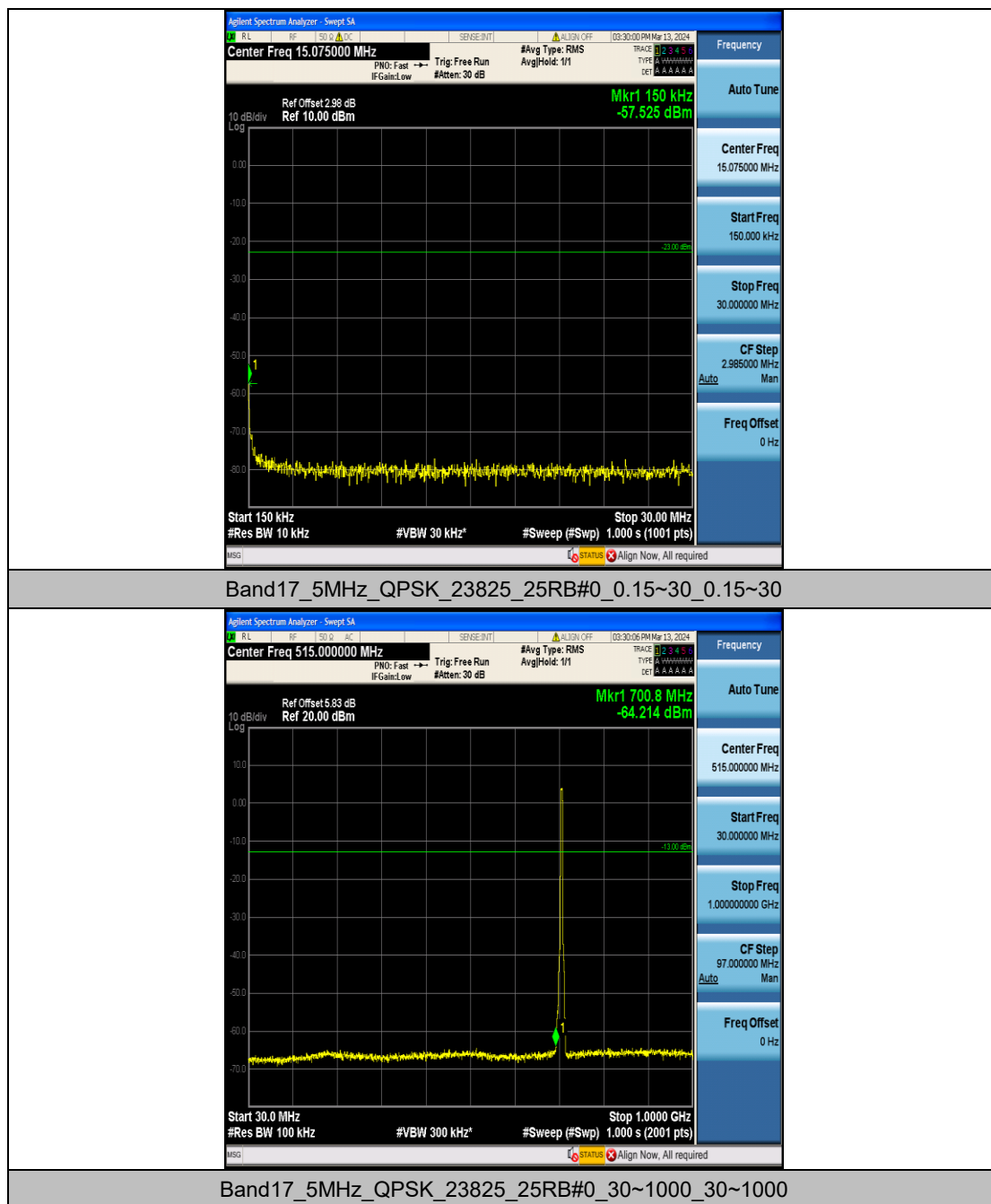


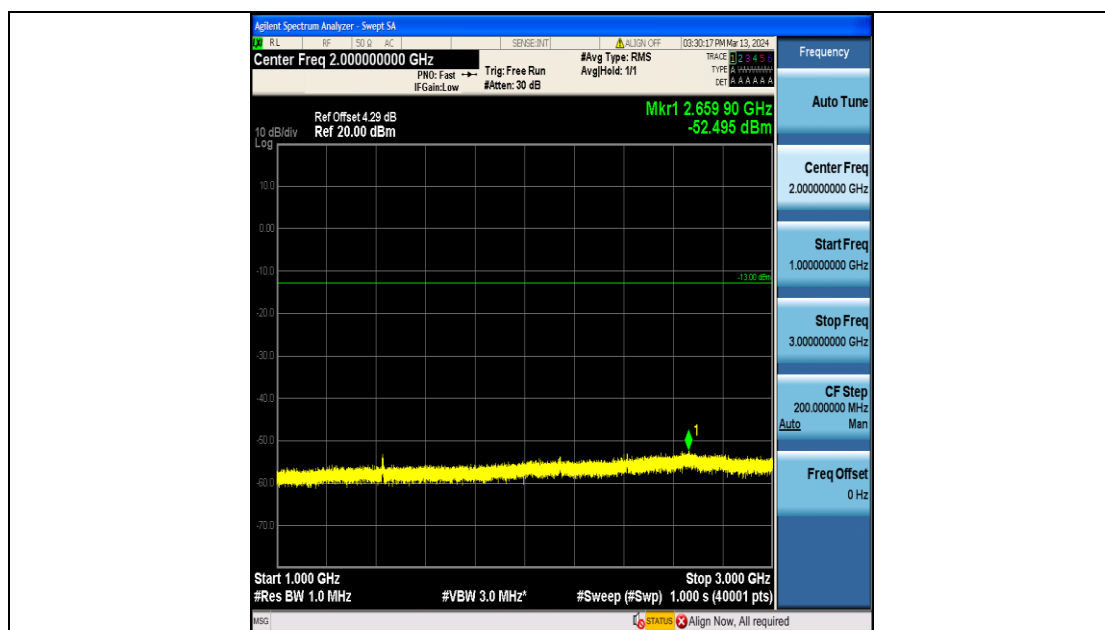
Band17\_5MHz\_16QAM\_23790\_25RB#0\_30~1000\_30~1000



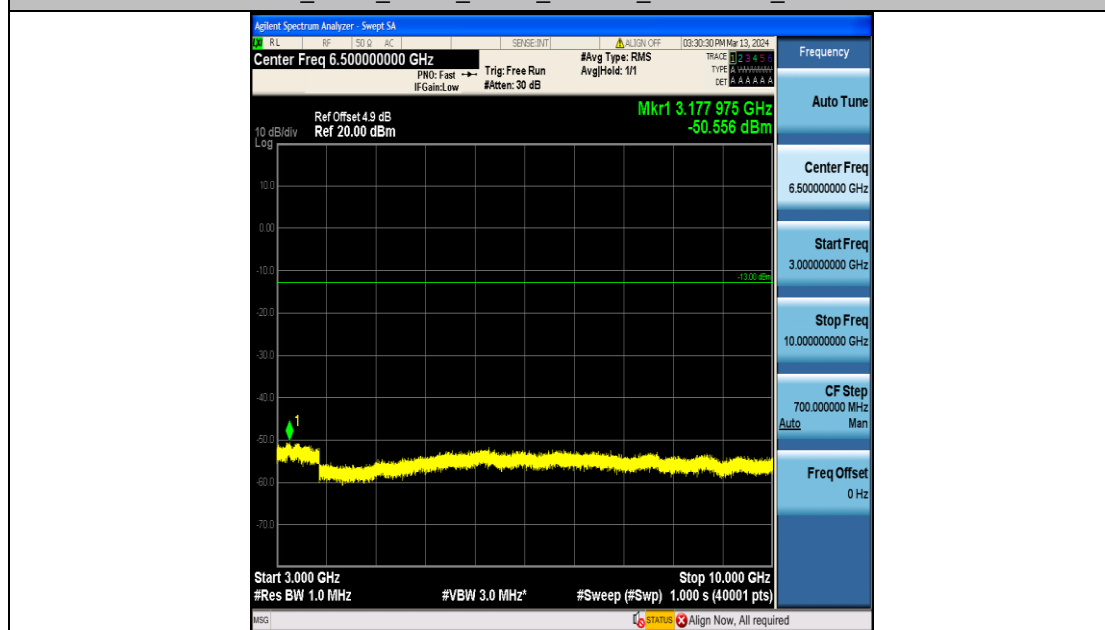
Band17\_5MHz\_16QAM\_23790\_25RB#0\_1000~3000\_1000~3000



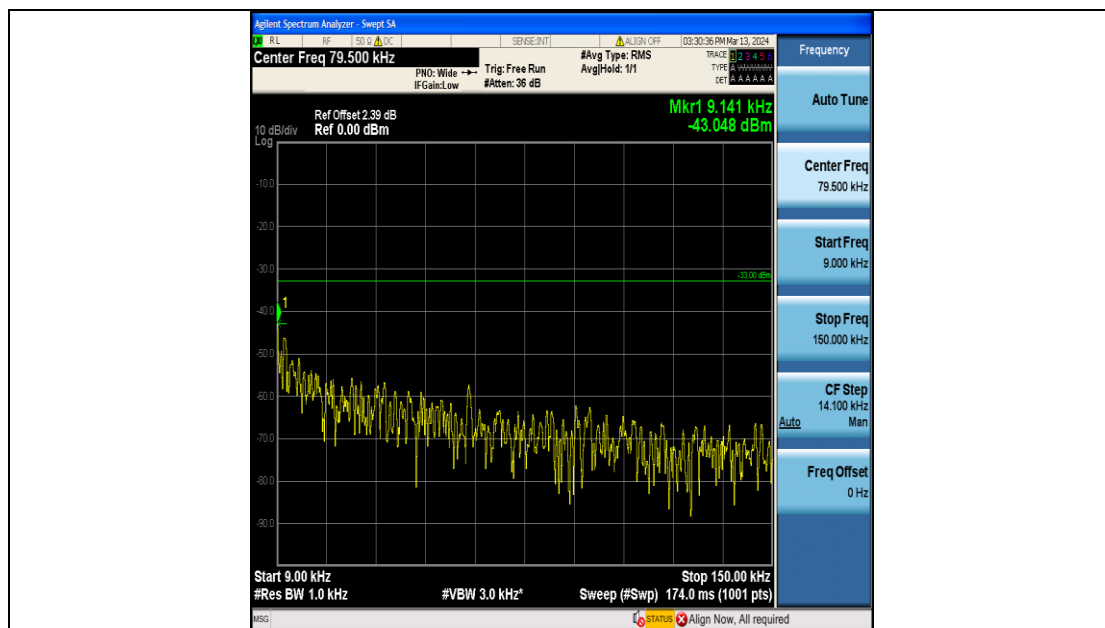




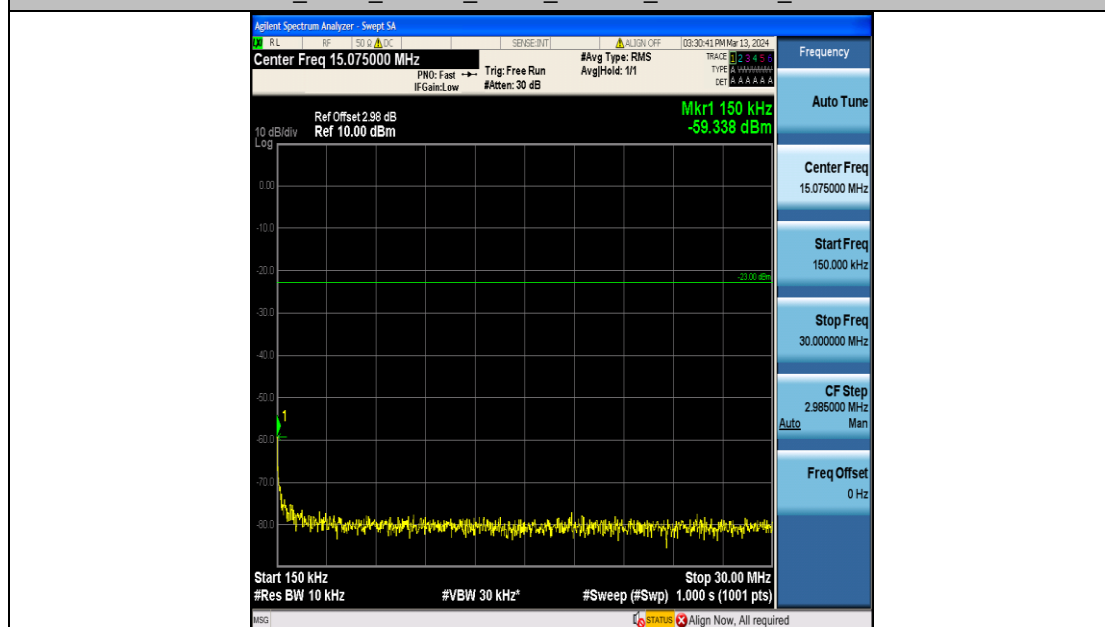
Band17\_5MHz\_QPSK\_23825\_25RB#0\_1000~3000\_1000~3000



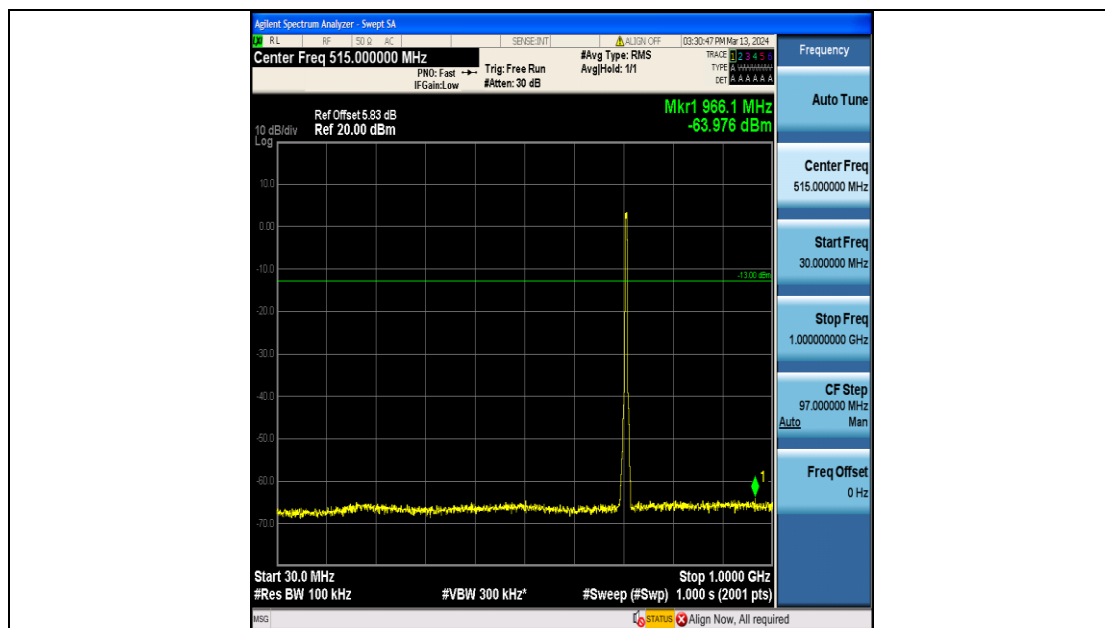
Band17\_5MHz\_QPSK\_23825\_25RB#0\_3000~10000\_3000~10000



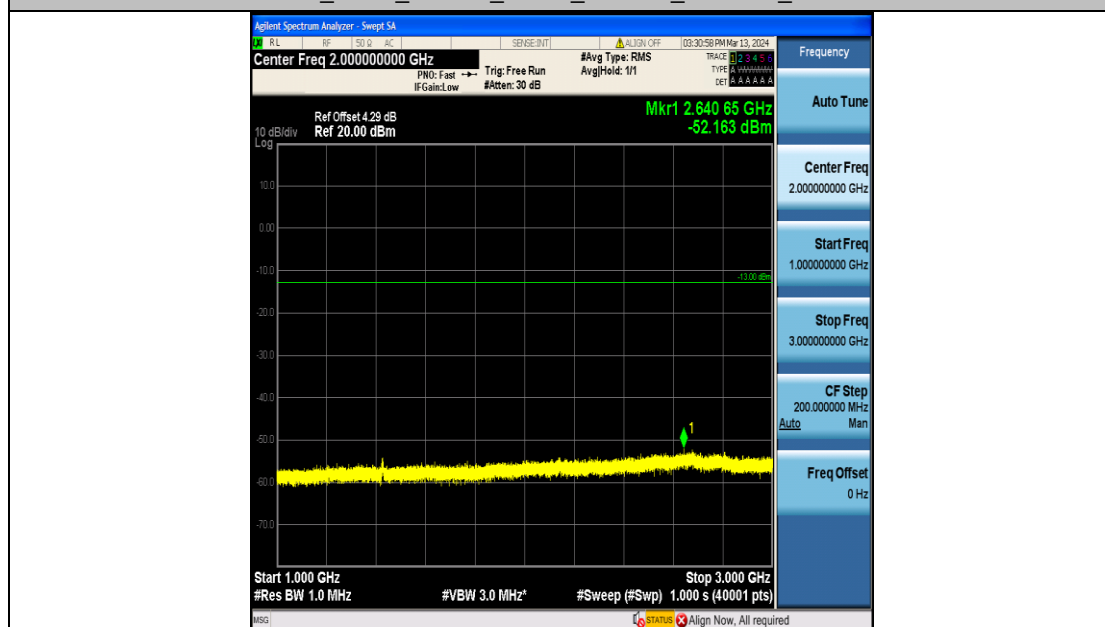
Band17\_5MHz\_16QAM\_23825\_25RB#0\_0.009~0.15\_0.009~0.15



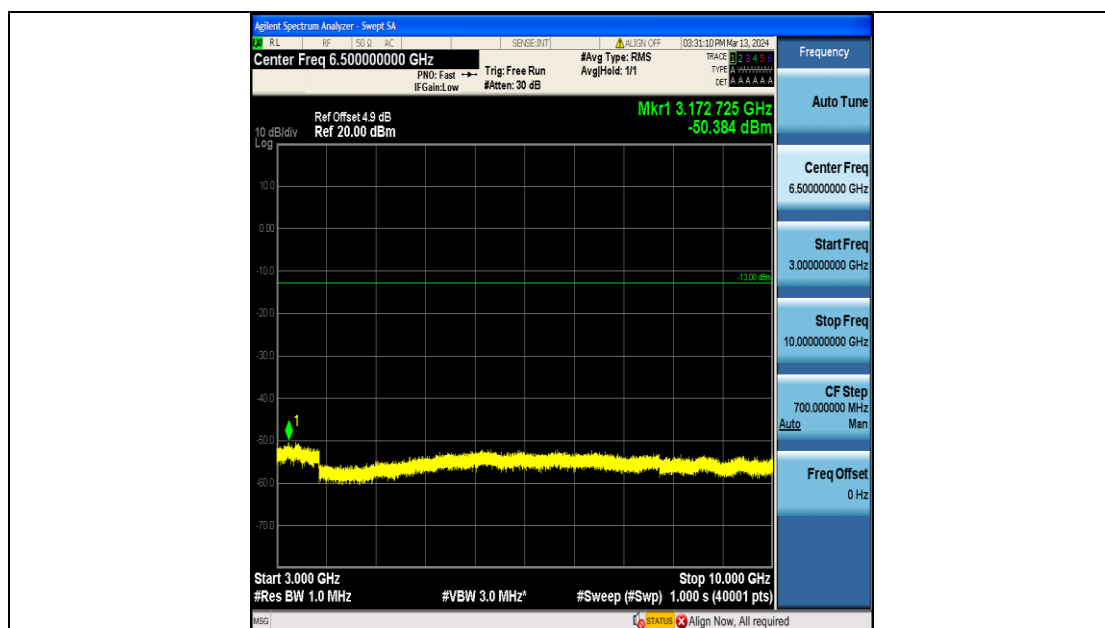
Band17\_5MHz\_16QAM\_23825\_25RB#0\_0.15~30\_0.15~30



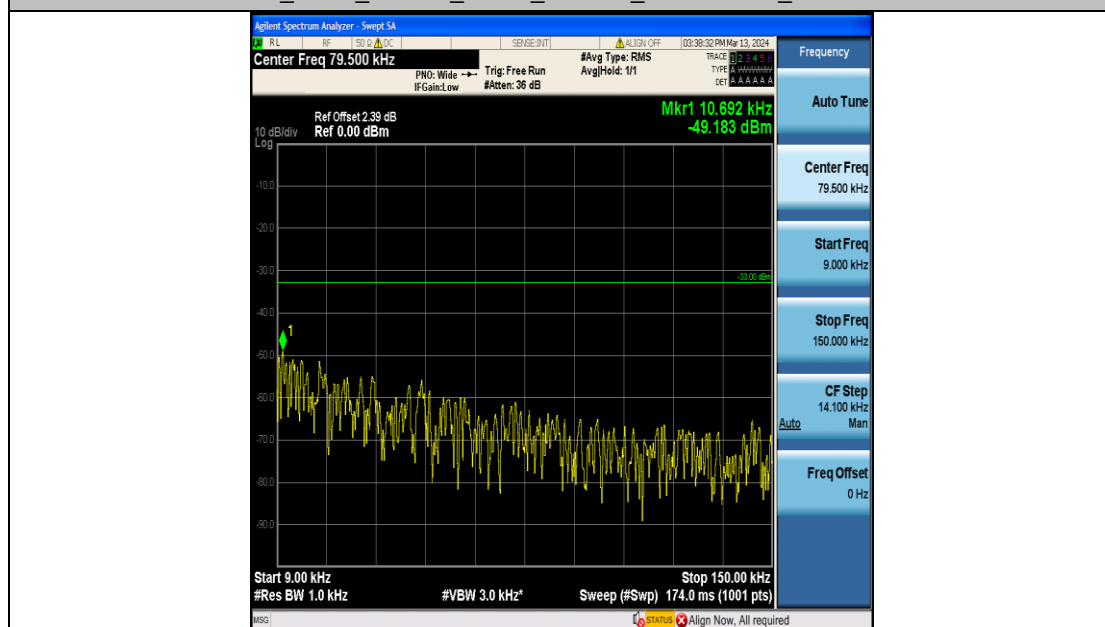
Band17\_5MHz\_16QAM\_23825\_25RB#0\_30~1000\_30~1000



Band17\_5MHz\_16QAM\_23825\_25RB#0\_1000~3000\_1000~3000



Band17\_5MHz\_16QAM\_23825\_25RB#0\_3000~10000\_3000~10000



Band17\_10MHz\_QPSK\_23780\_50RB#0\_0.009~0.15\_0.009~0.15