

# LTE Bnad40 Test Data

| General Description of EUT                                                                                                                             |                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Product Name:                                                                                                                                          | Tablet                    |
| Test Model:                                                                                                                                            | B7                        |
| Test Standard:                                                                                                                                         | FCC Part 2<br>FCC Part 27 |
| Environmental Conditions                                                                                                                               |                           |
| Temperature:                                                                                                                                           | 23.8℃                     |
| Relative Humidity:                                                                                                                                     | 48%                       |
| Test Voltage:                                                                                                                                          | DC 3.85V                  |
| Test Engineer:                                                                                                                                         | Rick. chen                |
| Note: For a more detailed features description, please refer to the report <b>TBR-C-202503-3450-115</b> .<br>The report only show the worst case data. |                           |

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## 1: Conducted Output Power Data

### Test Result

| Band          | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|---------------|-----------|------------|---------|------------------|-------------|---------|
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 1RB#0            | 22.76       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 1RB#12           | 23.17       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 1RB#24           | 22.76       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 12RB#0           | 21.78       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 12RB#6           | 21.87       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 12RB#13          | 21.80       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | 21.80       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 1RB#0            | 22.74       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 1RB#12           | 23.11       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 1RB#24           | 22.76       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 12RB#0           | 21.80       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 12RB#6           | 21.90       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 12RB#13          | 21.78       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | 21.78       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 1RB#0            | 22.87       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 1RB#12           | 23.22       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 1RB#24           | 22.84       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 12RB#0           | 21.80       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 12RB#6           | 21.93       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 12RB#13          | 21.83       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | 21.81       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 1RB#0            | 22.10       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 1RB#12           | 22.48       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 1RB#24           | 22.07       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 12RB#0           | 20.71       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 12RB#6           | 20.78       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 12RB#13          | 20.75       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | 20.75       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 1RB#0            | 21.85       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 1RB#12           | 22.17       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 1RB#24           | 21.83       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 12RB#0           | 20.75       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 12RB#6           | 20.78       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 12RB#13          | 20.81       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 25RB#0           | 20.78       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 1RB#0            | 21.86       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 1RB#12           | 22.18       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 1RB#24           | 21.79       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 12RB#0           | 20.70       | PASS    |

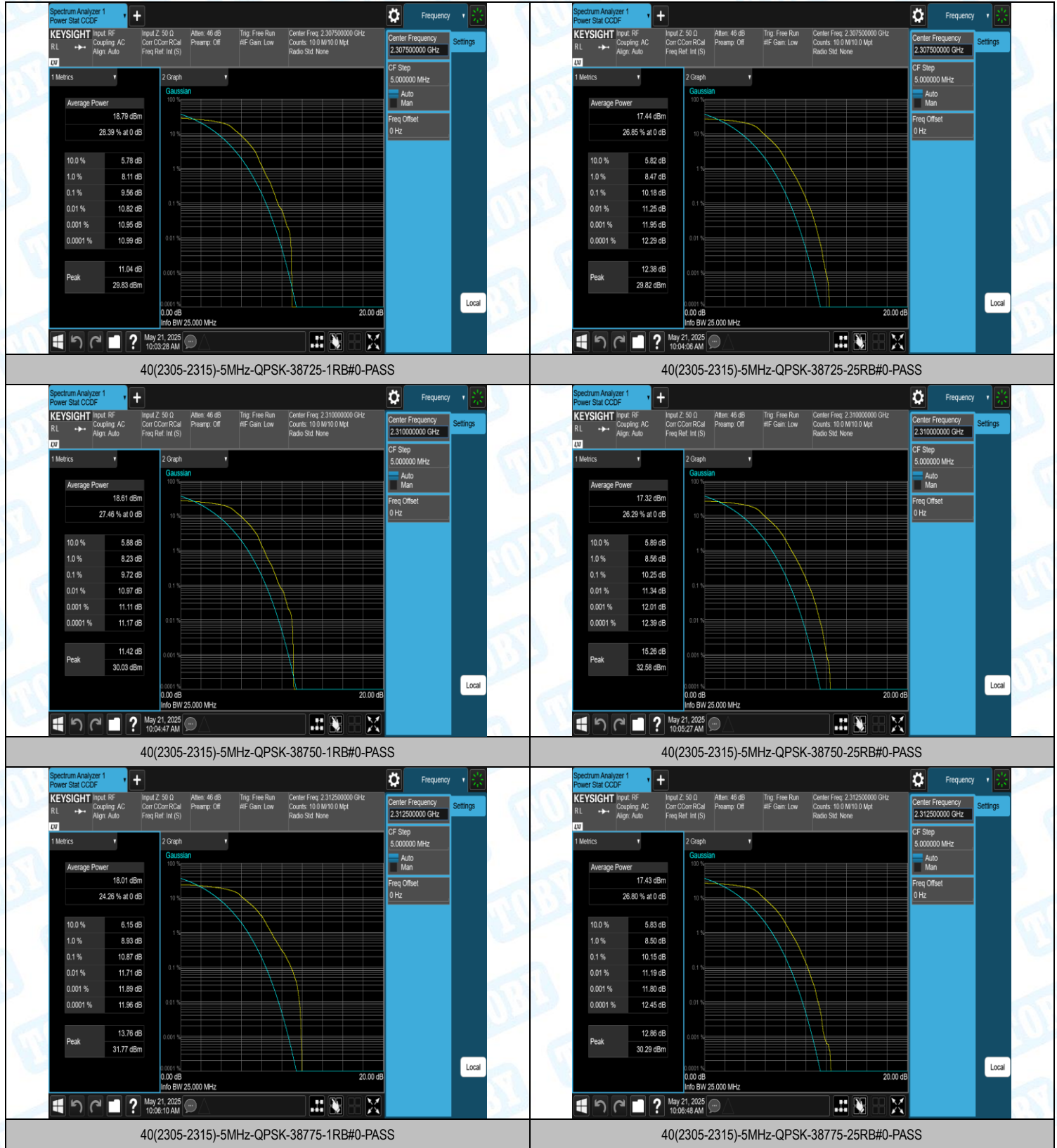
|               |       |       |       |         |       |      |
|---------------|-------|-------|-------|---------|-------|------|
| 40(2305-2315) | 5MHz  | 16QAM | 38775 | 12RB#6  | 20.79 | PASS |
| 40(2305-2315) | 5MHz  | 16QAM | 38775 | 12RB#13 | 20.74 | PASS |
| 40(2305-2315) | 5MHz  | 16QAM | 38775 | 25RB#0  | 20.73 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 1RB#0   | 22.84 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 1RB#24  | 23.03 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 1RB#49  | 22.90 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 25RB#0  | 21.84 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 25RB#12 | 21.86 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 25RB#25 | 21.84 | PASS |
| 40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0  | 21.89 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 1RB#0   | 21.52 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 1RB#24  | 21.61 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 1RB#49  | 21.54 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 25RB#0  | 20.80 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 25RB#12 | 20.82 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 25RB#25 | 20.87 | PASS |
| 40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0  | 20.82 | PASS |

## 2: Peak-to-Average Ratio(CCDF)

### Test Result

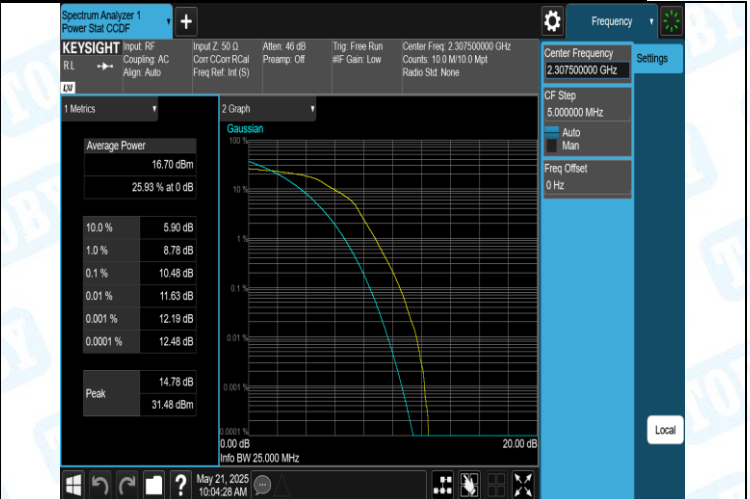
| Band          | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---------------|-----------|------------|---------|------------------|------------|-----------|---------|
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 1RB#0            | 9.56       | 13        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | 10.18      | 13        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 1RB#0            | 9.72       | 13        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | 10.25      | 13        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 1RB#0            | 10.87      | 13        | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | 10.15      | 13        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 1RB#0            | 10.97      | 13        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | 10.48      | 13        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 1RB#0            | 11.13      | 13        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 25RB#0           | 10.72      | 13        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 1RB#0            | 11.01      | 13        | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 25RB#0           | 10.61      | 13        | PASS    |
| 40(2305-2315) | 10MHz     | QPSK       | 38750   | 1RB#0            | 10.38      | 13        | PASS    |
| 40(2305-2315) | 10MHz     | QPSK       | 38750   | 50RB#0           | 10.49      | 13        | PASS    |
| 40(2305-2315) | 10MHz     | 16QAM      | 38750   | 1RB#0            | 10.88      | 13        | PASS    |
| 40(2305-2315) | 10MHz     | 16QAM      | 38750   | 50RB#0           | 10.84      | 13        | PASS    |

## Test Graphs

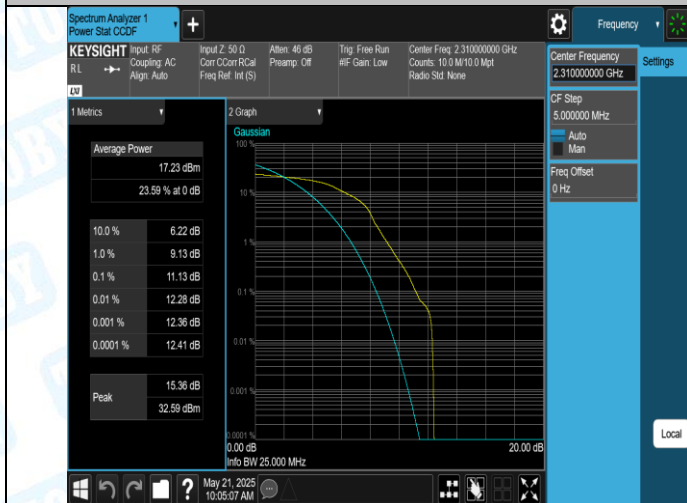




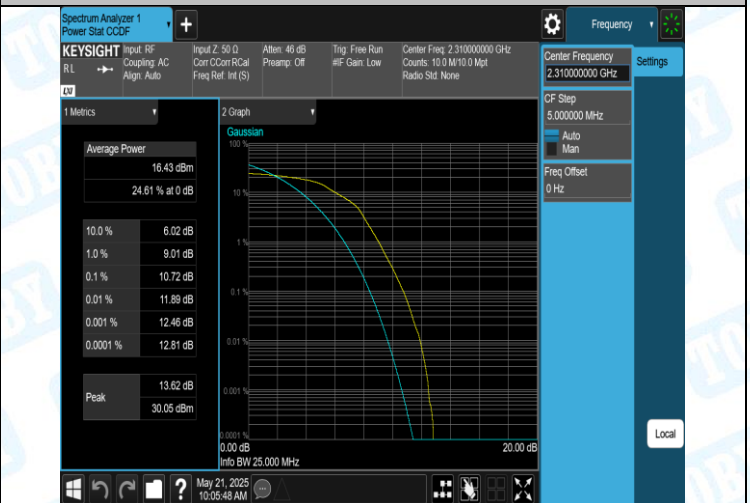
40(2305-2315)-5MHz-16QAM-38725-1RB#0-PASS



40(2305-2315)-5MHz-16QAM-38725-25RB#0-PASS



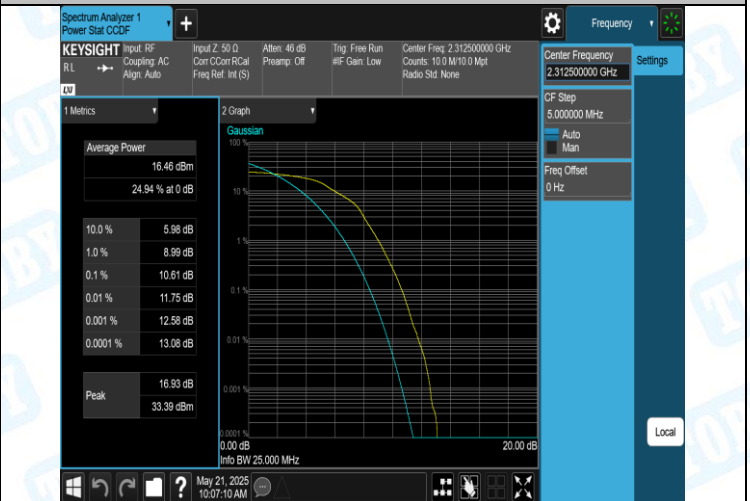
40(2305-2315)-5MHz-16QAM-38750-1RB#0-PASS



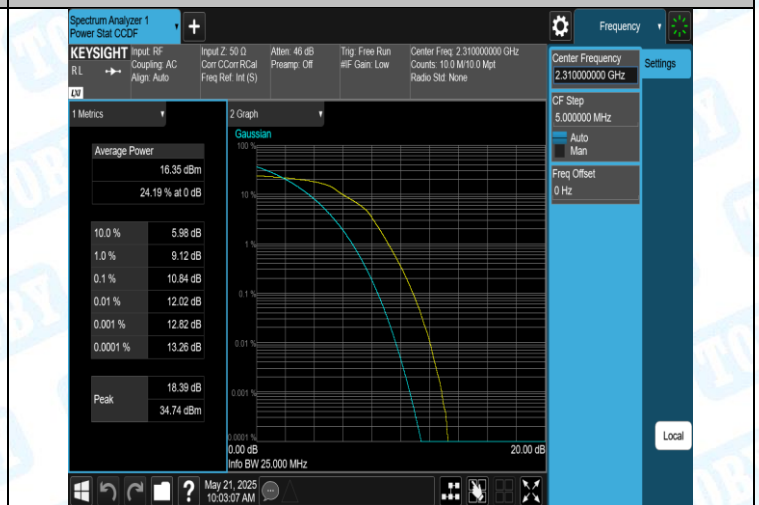
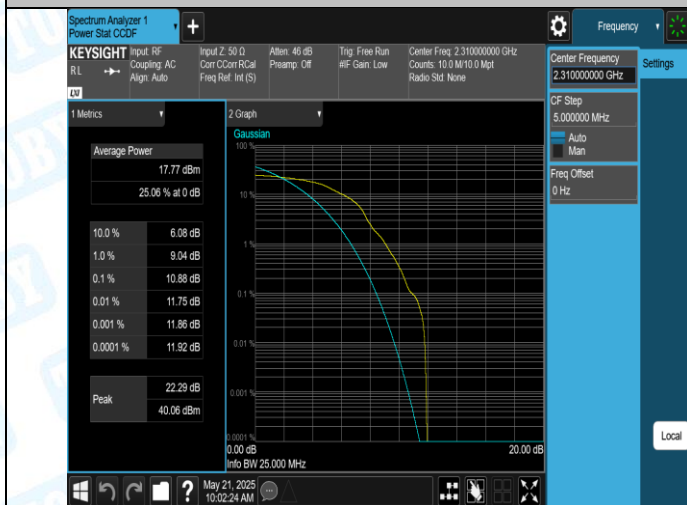
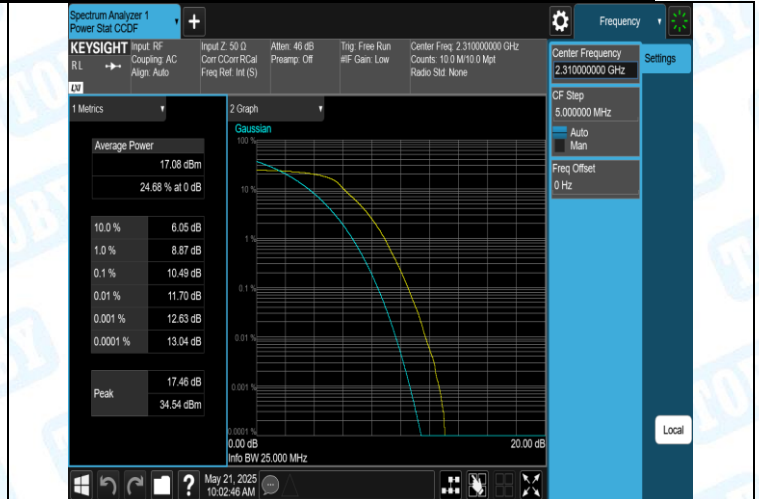
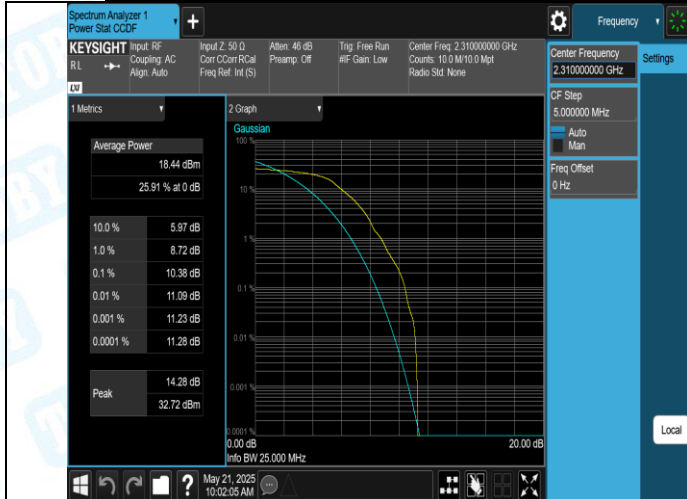
40(2305-2315)-5MHz-16QAM-38750-25RB#0-PASS



40(2305-2315)-5MHz-16QAM-38775-1RB#0-PASS



40(2305-2315)-5MHz-16QAM-38775-25RB#0-PASS

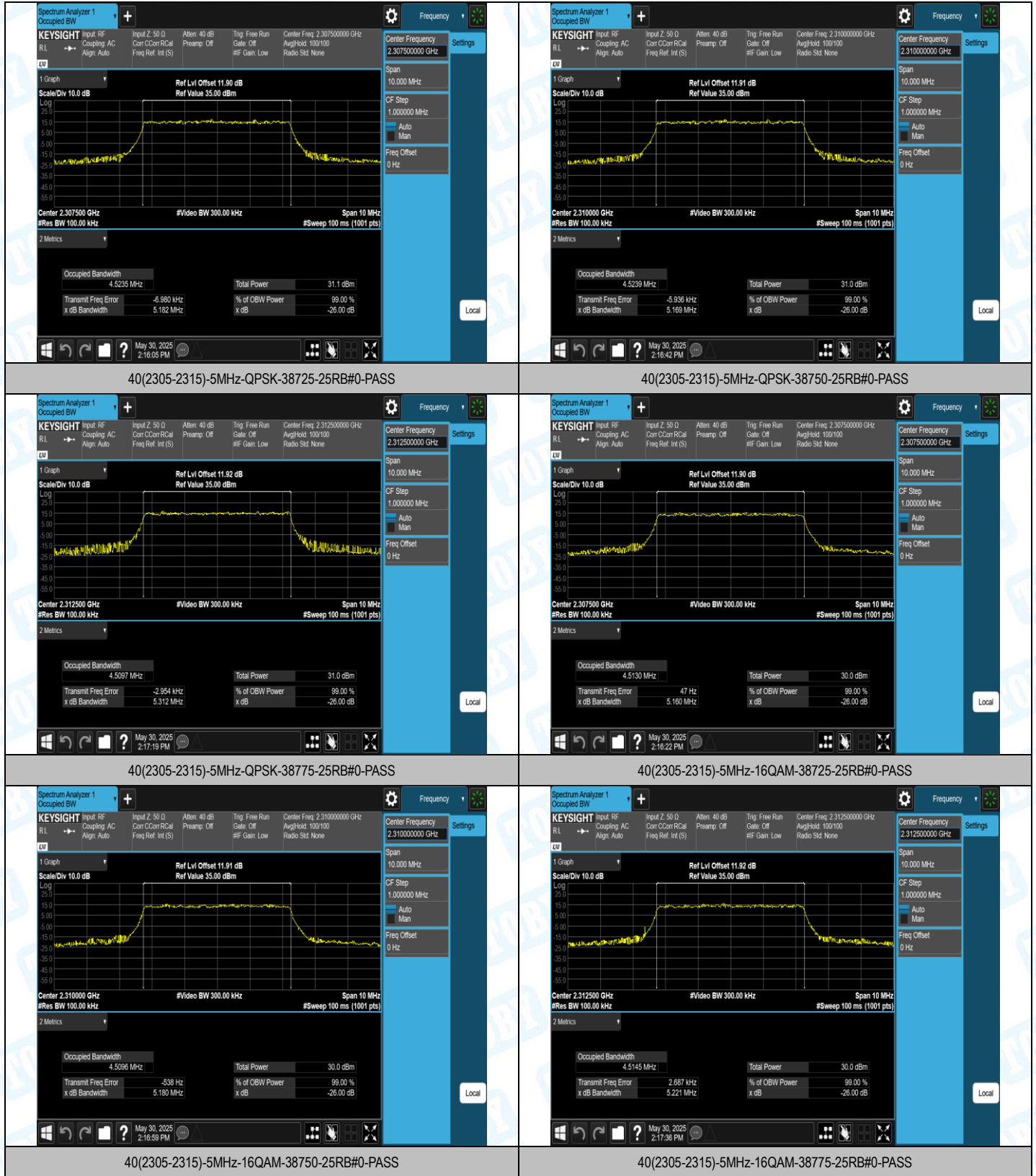


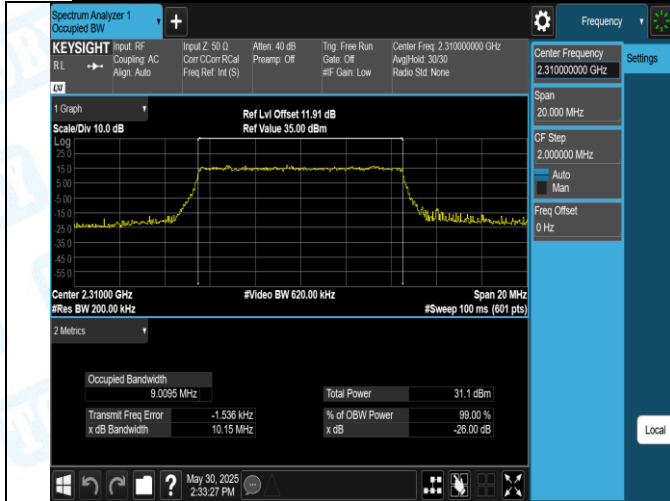
### 3: 26dB Bandwidth and Occupied Bandwidth

#### Test Result

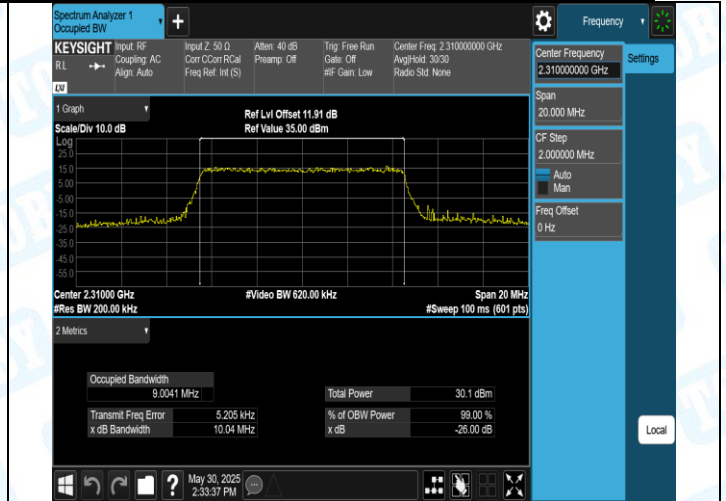
| Band          | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|---------------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | 4.5235                   | 5.182                | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | 4.5239                   | 5.169                | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | 4.5097                   | 5.312                | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | 4.5130                   | 5.160                | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 25RB#0           | 4.5096                   | 5.180                | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 25RB#0           | 4.5145                   | 5.221                | PASS    |
| 40(2305-2315) | 10MHz     | QPSK       | 38750   | 50RB#0           | 9.0095                   | 10.15                | PASS    |
| 40(2305-2315) | 10MHz     | 16QAM      | 38750   | 50RB#0           | 9.0041                   | 10.04                | PASS    |

## Test Graphs





40(2305-2315)-10MHz-QPSK-38750-50RB#0-PASS



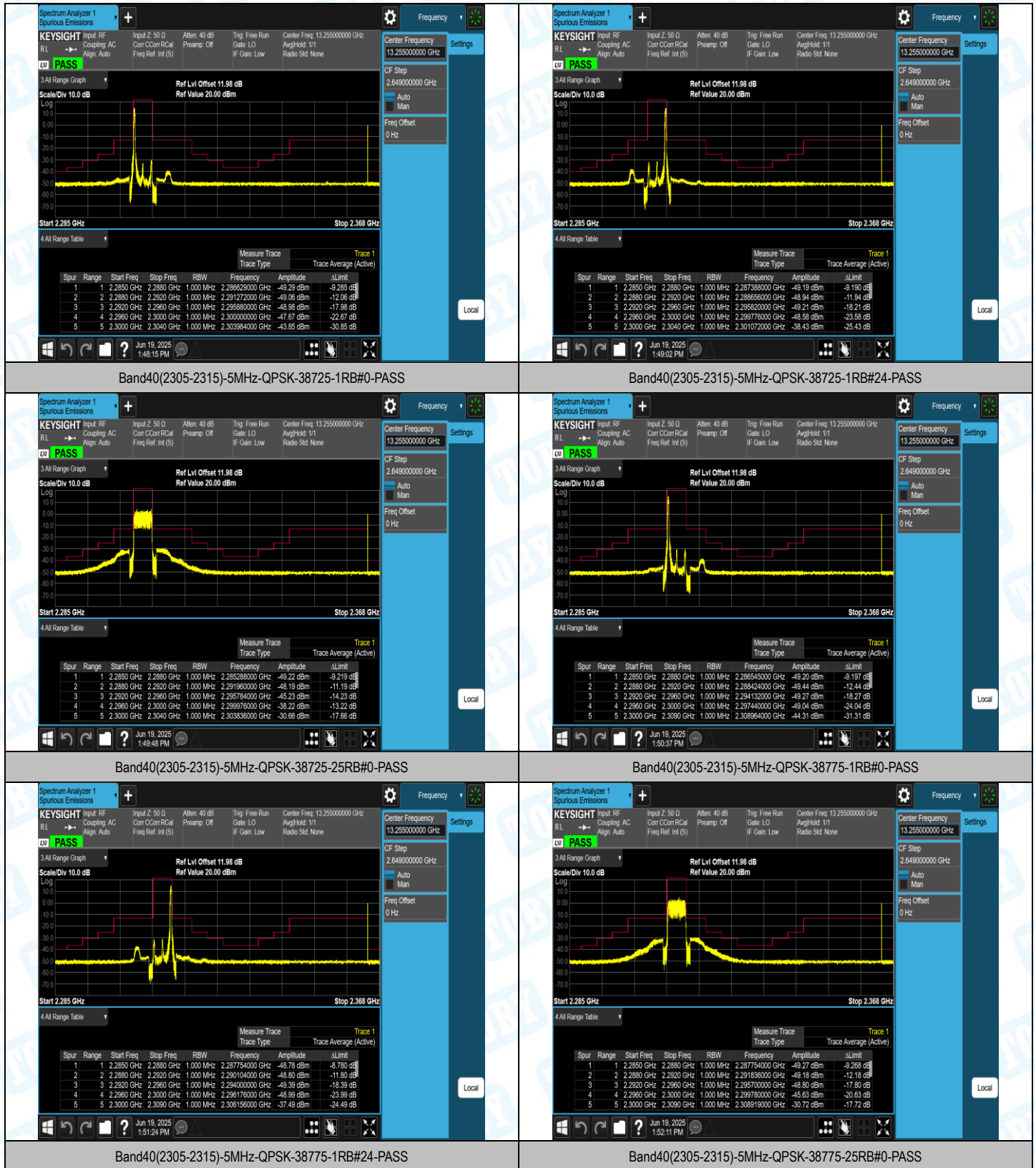
40(2305-2315)-10MHz-16QAM-38750-50RB#0-PASS

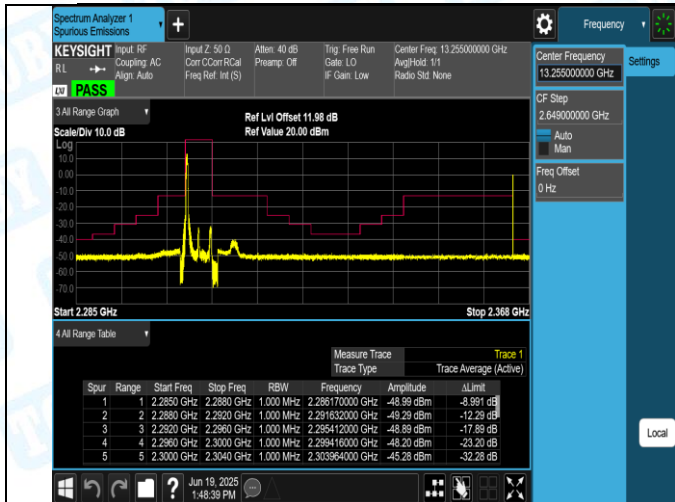
## 4: Band Edge

### Test Result

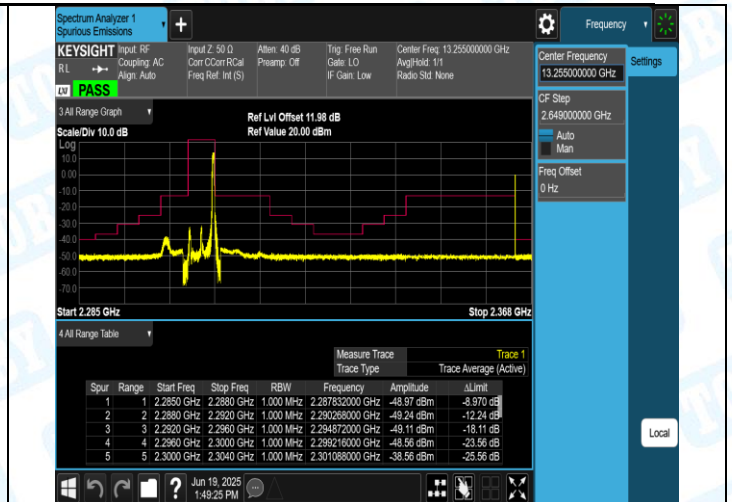
| Band              | Bandwidth | Modulation | Channel | RB Configuration | Level_dBm | Margin | Verdict |
|-------------------|-----------|------------|---------|------------------|-----------|--------|---------|
| Band40(2305-2315) | 5MHz      | QPSK       | 38725   | 1RB#0            | -49.10    | 9.10   | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38725   | 1RB#24           | -48.98    | 8.98   | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | -48.97    | 8.97   | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38775   | 1RB#0            | -49.05    | 9.05   | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38775   | 1RB#24           | -48.78    | 8.78   | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | -49.27    | 9.27   | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38725   | 1RB#0            | -48.99    | 8.99   | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38725   | 1RB#24           | -48.97    | 8.97   | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | -48.83    | 8.83   | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38775   | 1RB#0            | -49.00    | 9.00   | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38775   | 1RB#24           | -49.18    | 9.18   | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38775   | 25RB#0           | -49.16    | 9.16   | PASS    |
| Band40(2305-2315) | 10MHz     | QPSK       | 38750   | 1RB#0            | -48.78    | 8.78   | PASS    |
| Band40(2305-2315) | 10MHz     | QPSK       | 38750   | 1RB#49           | -48.97    | 8.97   | PASS    |
| Band40(2305-2315) | 10MHz     | QPSK       | 38750   | 50RB#0           | -41.66    | 4.66   | PASS    |
| Band40(2305-2315) | 10MHz     | 16QAM      | 38750   | 1RB#0            | -48.74    | 8.74   | PASS    |
| Band40(2305-2315) | 10MHz     | 16QAM      | 38750   | 1RB#49           | -48.99    | 8.99   | PASS    |
| Band40(2305-2315) | 10MHz     | 16QAM      | 38750   | 50RB#0           | -42.63    | 5.63   | PASS    |

## Test Graphs

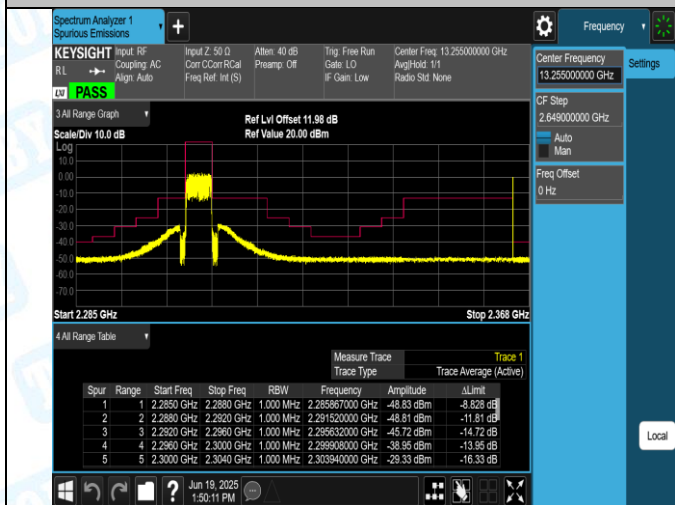




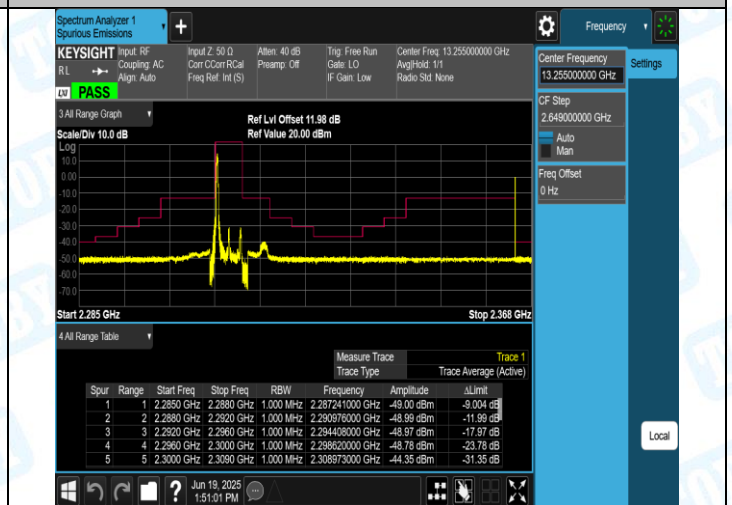
Band40(2305-2315)-5MHz-16QAM-38725-1RB#0-PASS



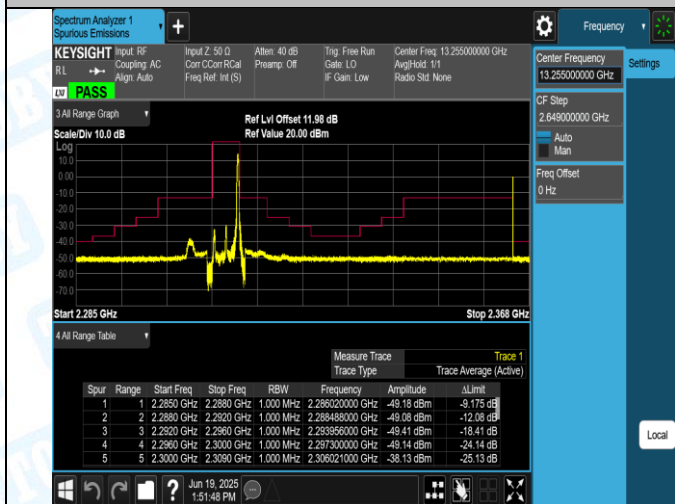
Band40(2305-2315)-5MHz-16QAM-38725-1RB#24-PASS



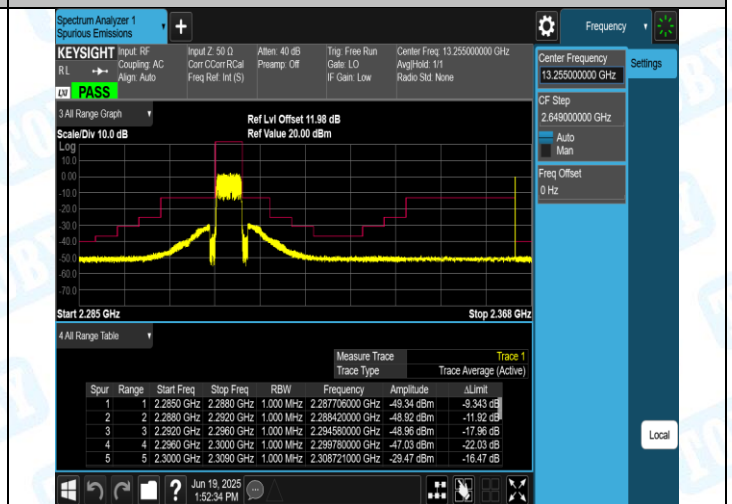
Band40(2305-2315)-5MHz-16QAM-38725-25RB#0-PASS



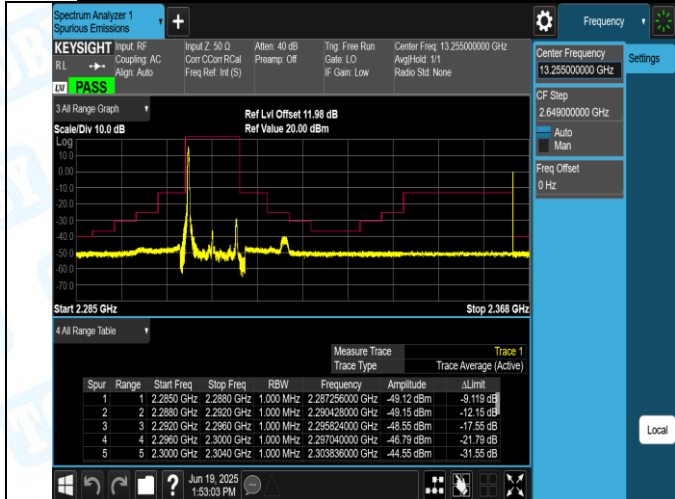
Band40(2305-2315)-5MHz-16QAM-38775-1RB#0-PASS



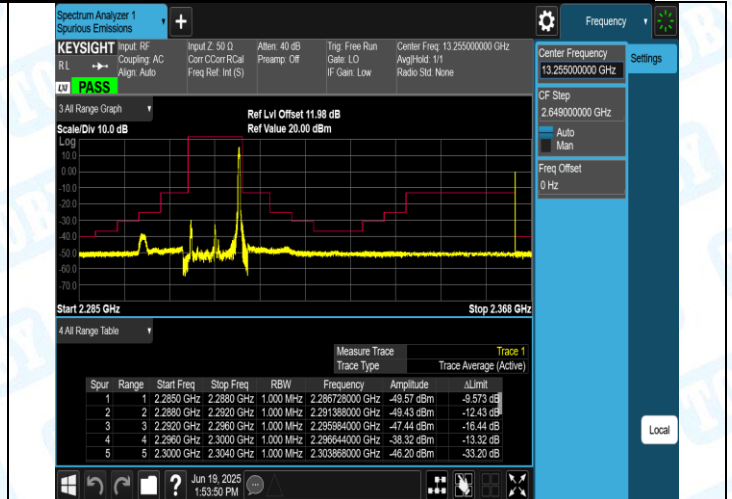
Band40(2305-2315)-5MHz-16QAM-38775-1RB#24-PASS



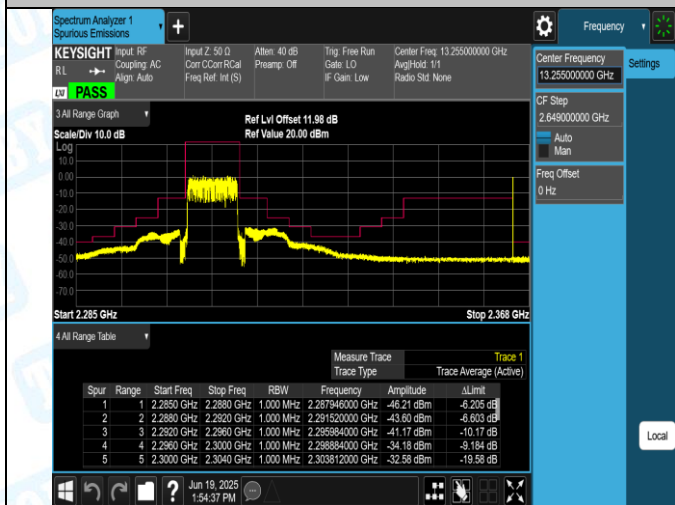
Band40(2305-2315)-5MHz-16QAM-38775-25RB#0-PASS



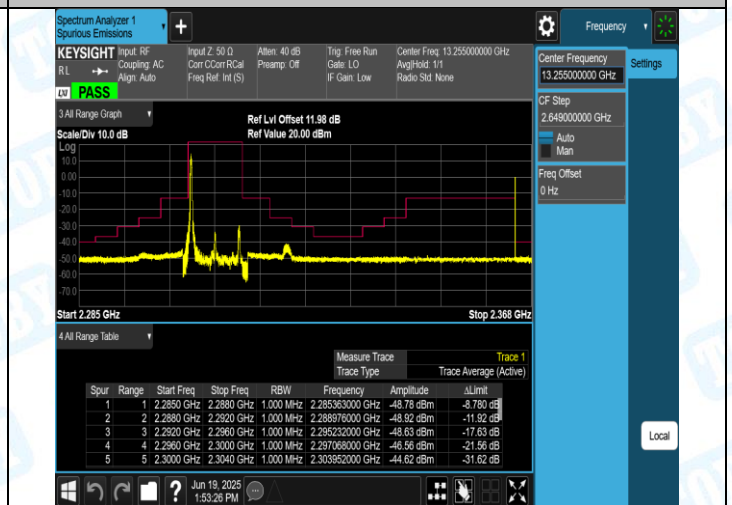
Band40(2305-2315)-10MHz-QPSK-38750-1RB#0-PASS



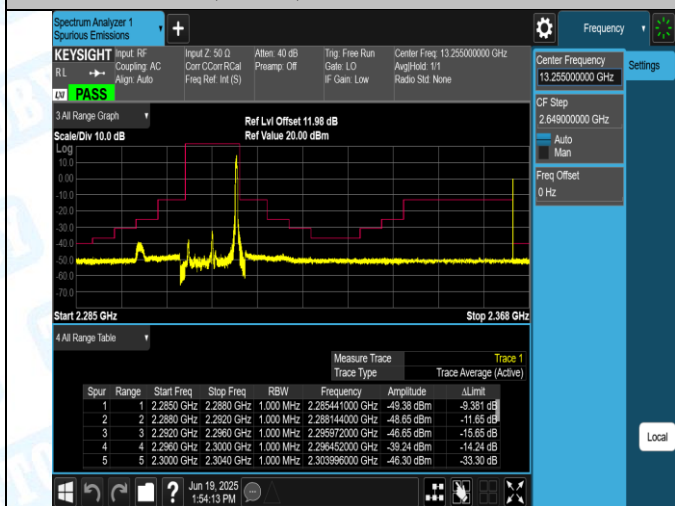
Band40(2305-2315)-10MHz-QPSK-38750-1RB#49-PASS



Band40(2305-2315)-10MHz-QPSK-38750-50RB#0-PASS



Band40(2305-2315)-10MHz-16QAM-38750-1RB#0-PASS



Band40(2305-2315)-10MHz-16QAM-38750-1RB#49-PASS



Band40(2305-2315)-10MHz-16QAM-38750-50RB#0-PASS

## 5: Conducted Spurious Emission

### Test Result

| Band          | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Frequency | Value(dBm) | Limit (dBm) | Verdict |
|---------------|-----------|------------|---------|------------------|-----------------|-----------|------------|-------------|---------|
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 1RB#0            | 0.009~0.15      | 0.02      | -81.01     | -70.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 1RB#0            | 0.15~30         | 0.15      | -90.41     | -60.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 1RB#0            | 30~1000         | 897.08    | -61.50     | -50.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 1RB#0            | 1000~3000       | 2691.69   | -45.03     | -40.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38725   | 1RB#0            | 3000~26500      | 24759.26  | -45.93     | -40.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 1RB#0            | 0.009~0.15      | 0.03      | -87.30     | -70.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 1RB#0            | 0.15~30         | 0.63      | -91.87     | -60.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 1RB#0            | 30~1000         | 899.99    | -60.45     | -50.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 1RB#0            | 1000~3000       | 2709.71   | -45.02     | -40.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38750   | 1RB#0            | 3000~26500      | 24735.74  | -45.99     | -40.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 1RB#0            | 0.009~0.15      | 0.03      | -86.05     | -70.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 1RB#0            | 0.15~30         | 0.60      | -90.77     | -60.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 1RB#0            | 30~1000         | 903.87    | -63.13     | -50.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 1RB#0            | 1000~3000       | 2681.68   | -44.99     | -40.0       | PASS    |
| 40(2305-2315) | 5MHz      | QPSK       | 38775   | 1RB#0            | 3000~26500      | 24735.74  | -46.11     | -40.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 1RB#0            | 0.009~0.15      | 0.02      | -81.43     | -70.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 1RB#0            | 0.15~30         | 0.48      | -90.86     | -60.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 1RB#0            | 30~1000         | 896.11    | -65.68     | -50.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 1RB#0            | 1000~3000       | 2677.68   | -44.99     | -40.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38725   | 1RB#0            | 3000~26500      | 24759.26  | -45.84     | -40.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 1RB#0            | 0.009~0.15      | 0.03      | -86.93     | -70.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 1RB#0            | 0.15~30         | 0.15      | -91.17     | -60.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 1RB#0            | 30~1000         | 900.96    | -65.57     | -50.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 1RB#0            | 1000~3000       | 2687.69   | -45.04     | -40.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38750   | 1RB#0            | 3000~26500      | 24759.26  | -45.97     | -40.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 1RB#0            | 0.009~0.15      | 0.09      | -93.17     | -70.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 1RB#0            | 0.15~30         | 0.48      | -89.35     | -60.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 1RB#0            | 30~1000         | 903.87    | -64.03     | -50.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 1RB#0            | 1000~3000       | 2693.69   | -44.97     | -40.0       | PASS    |
| 40(2305-2315) | 5MHz      | 16QAM      | 38775   | 1RB#0            | 3000~26500      | 24735.74  | -45.86     | -40.0       | PASS    |
| 40(2305-2315) | 10MHz     | QPSK       | 38750   | 1RB#0            | 0.009~0.15      | 0.03      | -86.70     | -70.0       | PASS    |
| 40(2305-2315) | 10MHz     | QPSK       | 38750   | 1RB#0            | 0.15~30         | 0.45      | -90.95     | -60.0       | PASS    |
| 40(2305-2315) | 10MHz     | QPSK       | 38750   | 1RB#0            | 30~1000         | 897.08    | -62.03     | -50.0       | PASS    |
| 40(2305-2315) | 10MHz     | QPSK       | 38750   | 1RB#0            | 1000~3000       | 2687.69   | -44.95     | -40.0       | PASS    |
| 40(2305-2315) | 10MHz     | QPSK       | 38750   | 1RB#0            | 3000~26500      | 24782.78  | -46.01     | -40.0       | PASS    |
| 40(2305-2315) | 10MHz     | 16QAM      | 38750   | 1RB#0            | 0.009~0.15      | 0.03      | -88.98     | -70.0       | PASS    |
| 40(2305-2315) | 10MHz     | 16QAM      | 38750   | 1RB#0            | 0.15~30         | 0.45      | -92.07     | -60.0       | PASS    |
| 40(2305-2315) | 10MHz     | 16QAM      | 38750   | 1RB#0            | 30~1000         | 897.08    | -64.05     | -50.0       | PASS    |
| 40(2305-2315) | 10MHz     | 16QAM      | 38750   | 1RB#0            | 1000~3000       | 2691.69   | -44.86     | -40.0       | PASS    |
| 40(2305-2315) | 10MHz     | 16QAM      | 38750   | 1RB#0            | 3000~26500      | 24759.26  | -46.16     | -40.0       | PASS    |

## Test Graphs

