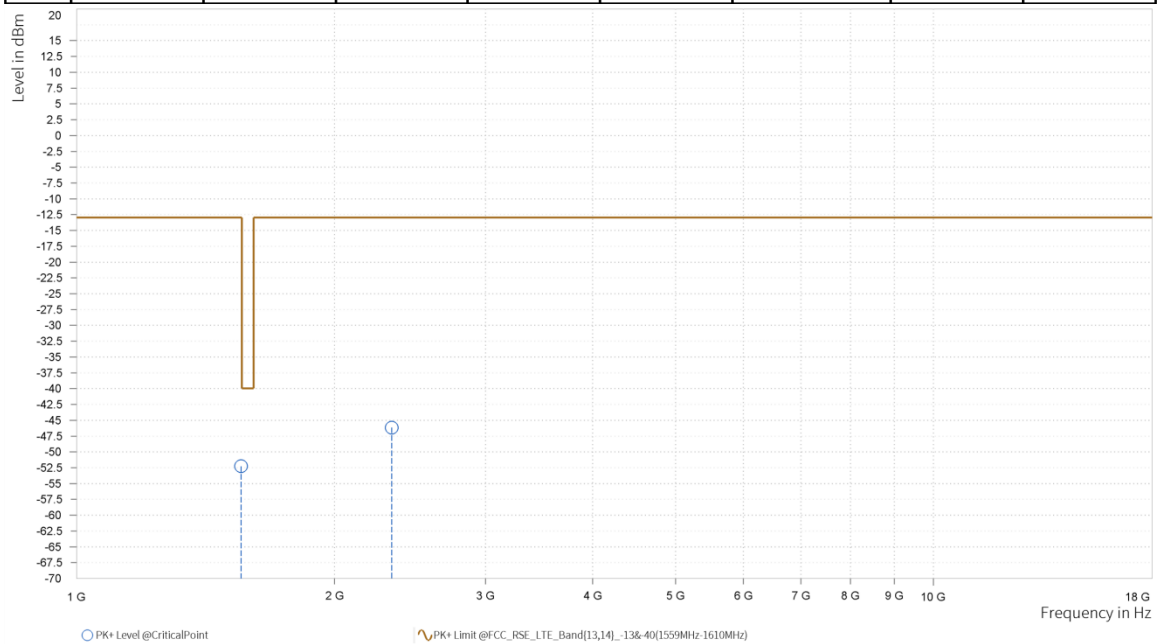




|                   |               |                          |                  |
|-------------------|---------------|--------------------------|------------------|
| CHANNEL BANDWIDTH | 10MHz / QPSK  | MODE                     | TX channel 23230 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH  |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu        |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,555.000       | -52.27          | -13.00          | 39.27           | 17.16           | H            | 1             | 1.00               |
| 3  | 2,332.500       | -46.15          | -13.00          | 33.15           | 24.28           | H            | 359           | 1.00               |

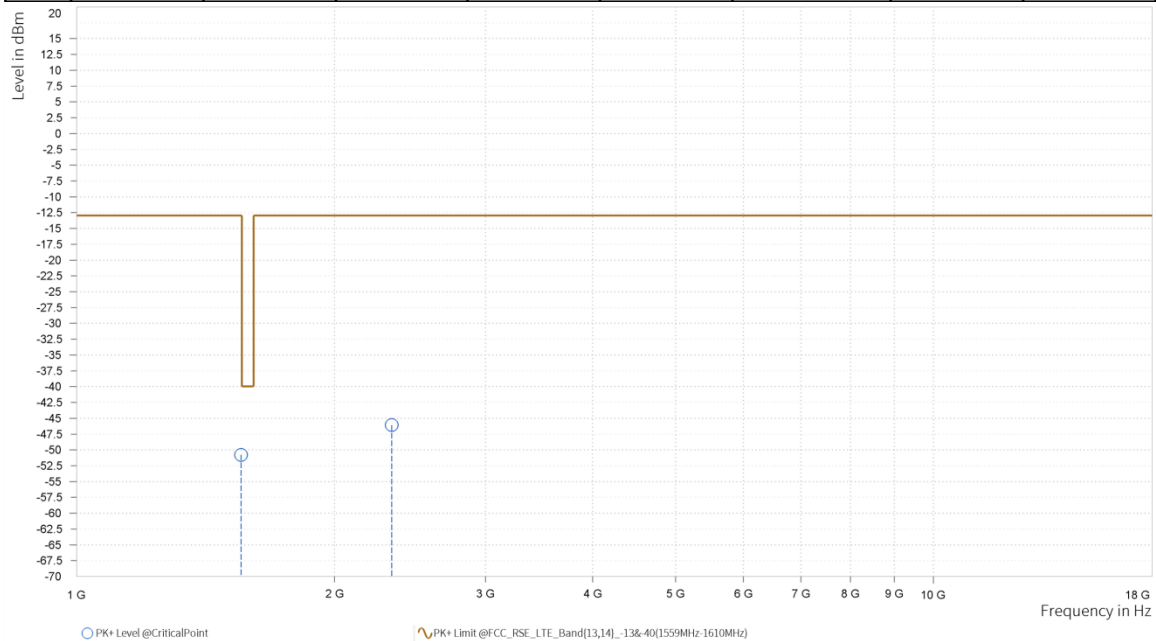




|                   |               |                          |                  |
|-------------------|---------------|--------------------------|------------------|
| CHANNEL BANDWIDTH | 10MHz / QPSK  | MODE                     | TX channel 23230 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH  |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu        |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,555.000       | -50.79          | -13.00          | 37.79           | 17.16           | H            | 359           | 2.00               |
| 3  | 2,332.500       | -46.08          | -13.00          | 33.08           | 24.28           | H            | 1             | 2.00               |





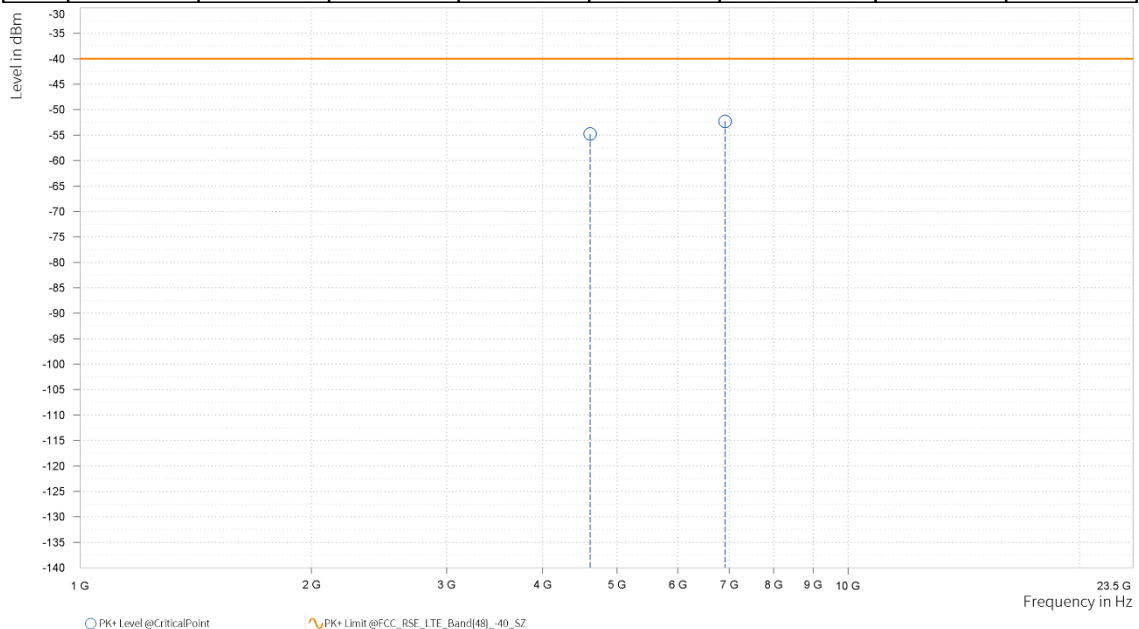
**LTE B30**

**CH 27685**

|                          |               |                                 |                  |
|--------------------------|---------------|---------------------------------|------------------|
| <b>CHANNEL BANDWIDTH</b> | 5MHz / QPSK   | <b>MODE</b>                     | TX channel 27685 |
| <b>FREQUENCY RANGE</b>   | Above 1000MHz | <b>ENVIRONMENTAL CONDITIONS</b> | 23deg. C, 70%RH  |
| <b>INPUT POWER</b>       | DC 5V         | <b>TESTED BY</b>                | Hanwen Xu        |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 4,610.500       | -54.79          | -40.00          | 14.79           | 18.66           | H            | 1             | 1.00               |
| 5  | 6,915.500       | -52.28          | -40.00          | 12.28           | 23.10           | H            | 7             | 2.00               |

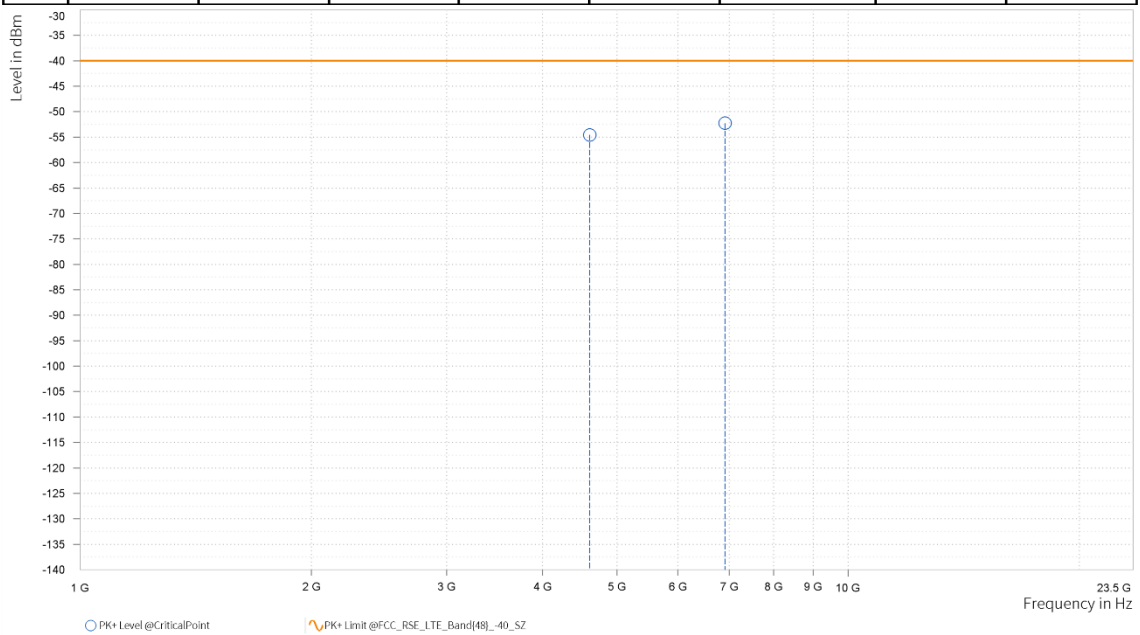




|                   |               |                          |                  |
|-------------------|---------------|--------------------------|------------------|
| CHANNEL BANDWIDTH | 5MHz / QPSK   | MODE                     | TX channel 27685 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH  |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu        |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 4,610.000       | -54.57          | -40.00          | 14.57           | 18.66           | V            | 0.9           | 2.00               |
| 5  | 6,915.500       | -52.25          | -40.00          | 12.25           | 23.10           | V            | 359           | 1.00               |

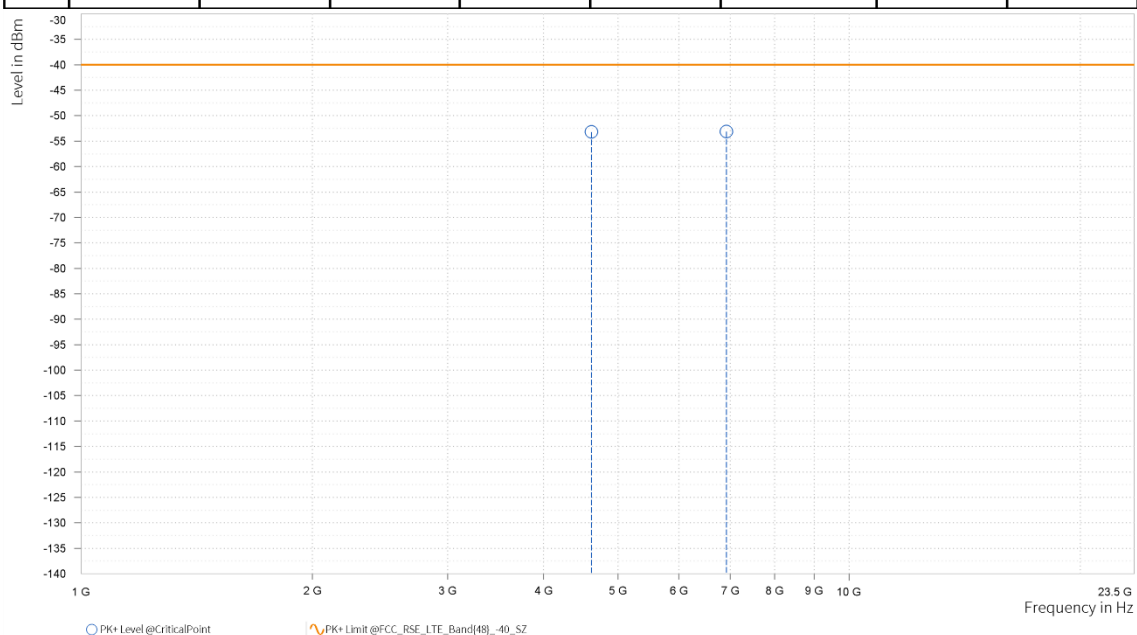




|                   |               |                          |                  |
|-------------------|---------------|--------------------------|------------------|
| CHANNEL BANDWIDTH | 5MHz / QPSK   | MODE                     | TX channel 27710 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH  |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu        |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 4,615.500       | -53.19          | -40.00          | 13.19           | 18.64           | H            | 0.9           | 2.00               |
| 5  | 6,923.000       | -53.13          | -40.00          | 13.13           | 23.05           | H            | 277.8         | 1.00               |

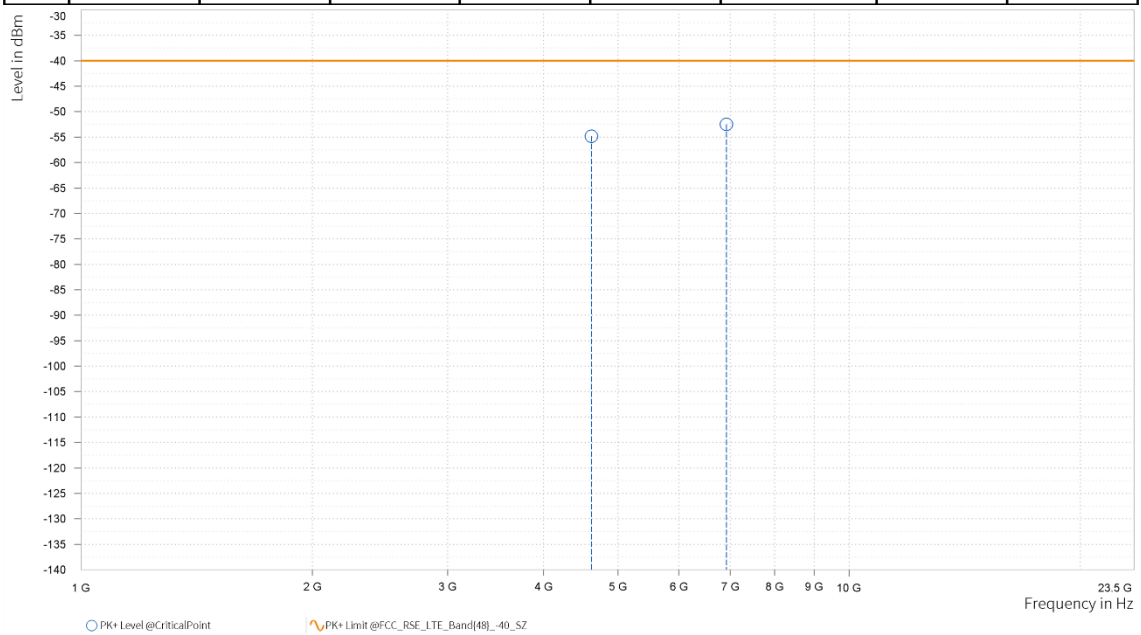




|                   |               |                          |                  |
|-------------------|---------------|--------------------------|------------------|
| CHANNEL BANDWIDTH | 5MHz / QPSK   | MODE                     | TX channel 27710 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH  |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu        |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 4,615.500       | -54.80          | -40.00          | 14.80           | 18.64           | V            | 269.4         | 1.00               |
| 5  | 6,923.000       | -52.49          | -40.00          | 12.49           | 23.05           | V            | 359           | 2.00               |

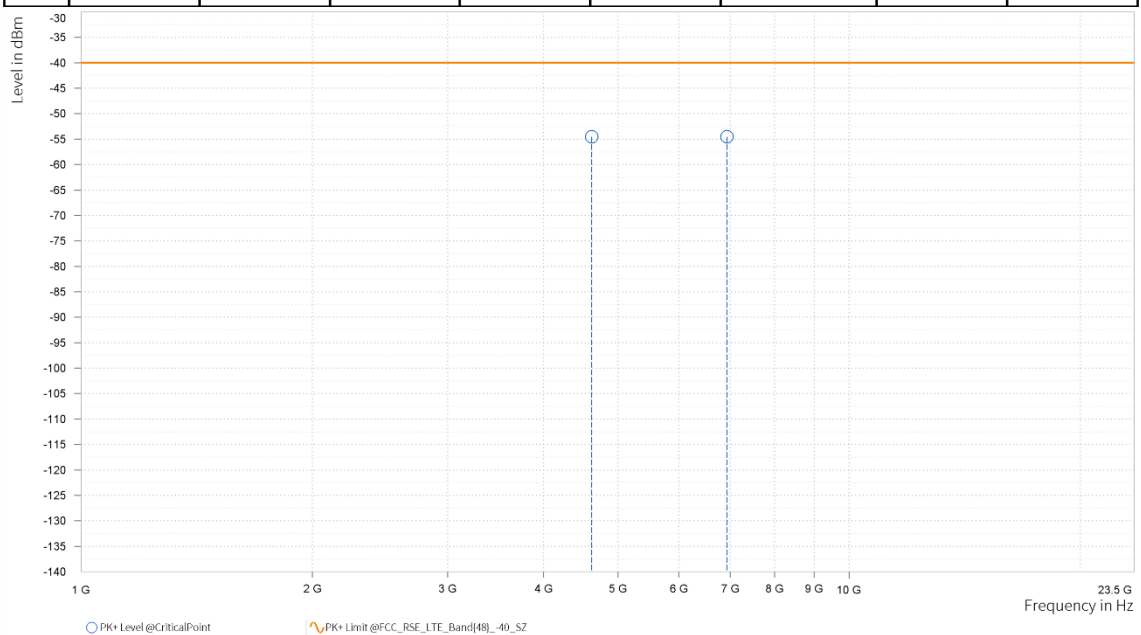




|                   |               |                          |                  |
|-------------------|---------------|--------------------------|------------------|
| CHANNEL BANDWIDTH | 5MHz / QPSK   | MODE                     | TX channel 27735 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH  |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu        |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 4,620.000       | -54.54          | -40.00          | 14.54           | 18.66           | H            | 357.8         | 1.00               |
| 5  | 6,930.500       | -54.53          | -40.00          | 14.53           | 23.00           | H            | 0.9           | 2.00               |

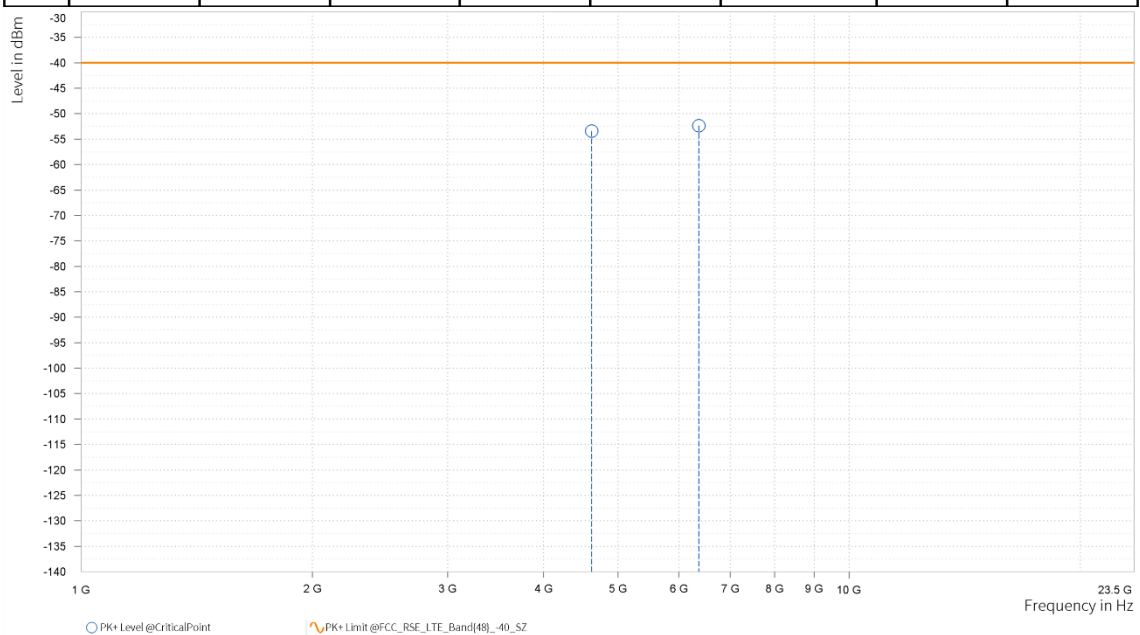




|                   |               |                          |                  |
|-------------------|---------------|--------------------------|------------------|
| CHANNEL BANDWIDTH | 5MHz / QPSK   | MODE                     | TX channel 27735 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH  |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu        |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 4,620.500       | -53.40          | -40.00          | 13.40           | 18.66           | V            | 0.9           | 2.00               |
| 5  | 6,370.500       | -52.35          | -40.00          | 12.35           | 23.09           | V            | 326.7         | 1.00               |

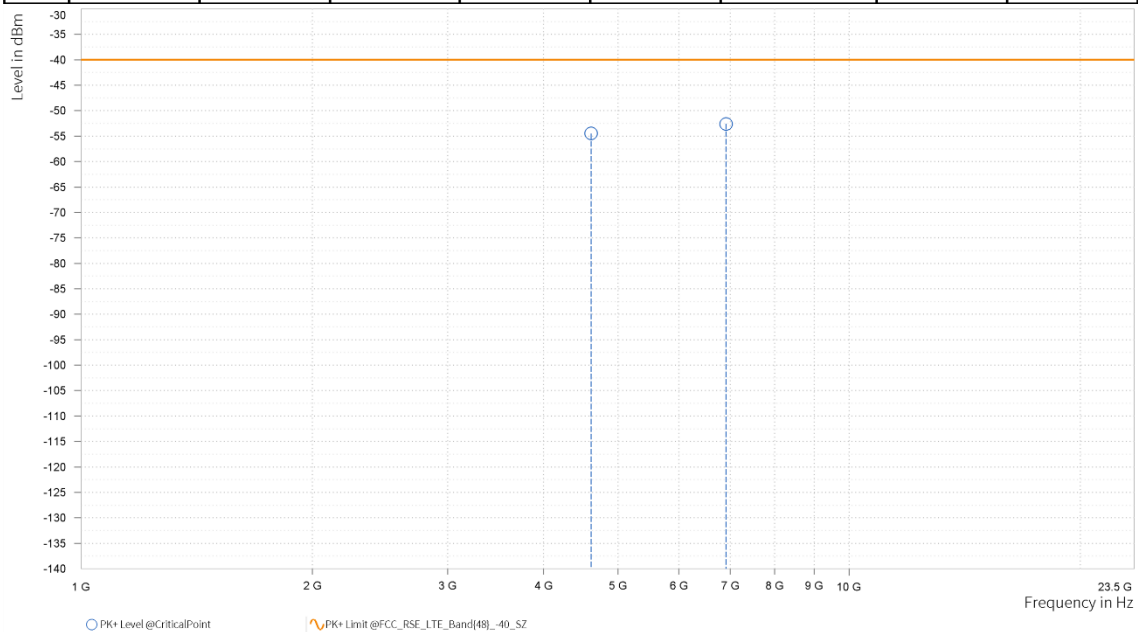




|                   |               |                          |                  |
|-------------------|---------------|--------------------------|------------------|
| CHANNEL BANDWIDTH | 10MHz / QPSK  | MODE                     | TX channel 27710 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH  |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu        |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 4,611.000       | -54.48          | -40.00          | 14.48           | 18.65           | H            | 359           | 2.00               |
| 5  | 6,916.500       | -52.61          | -40.00          | 12.61           | 23.09           | H            | 359           | 1.00               |

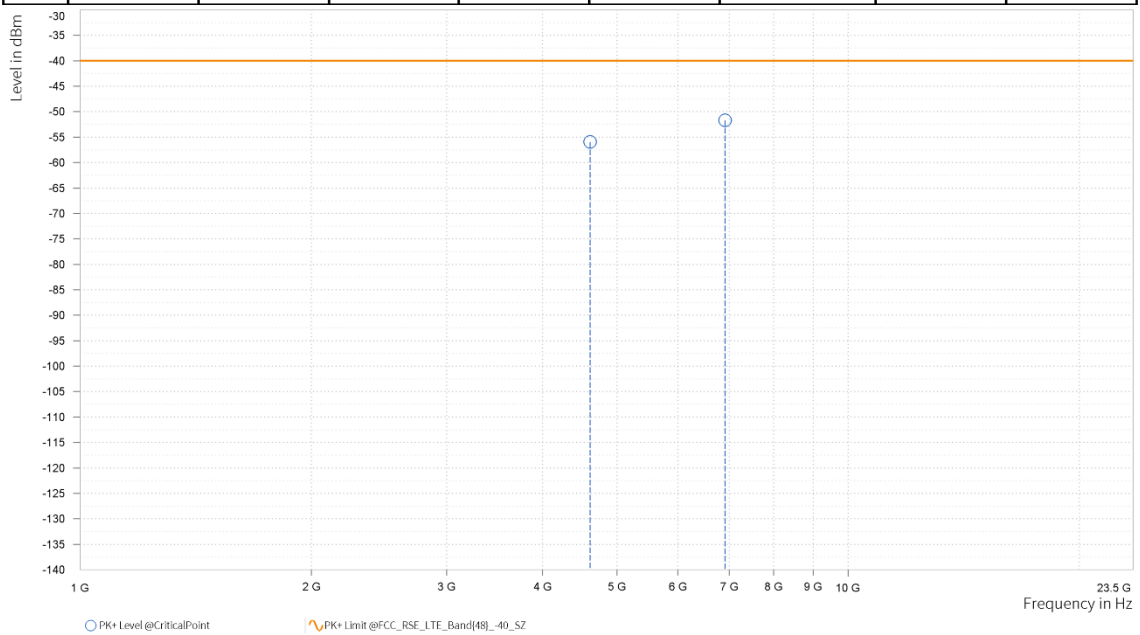


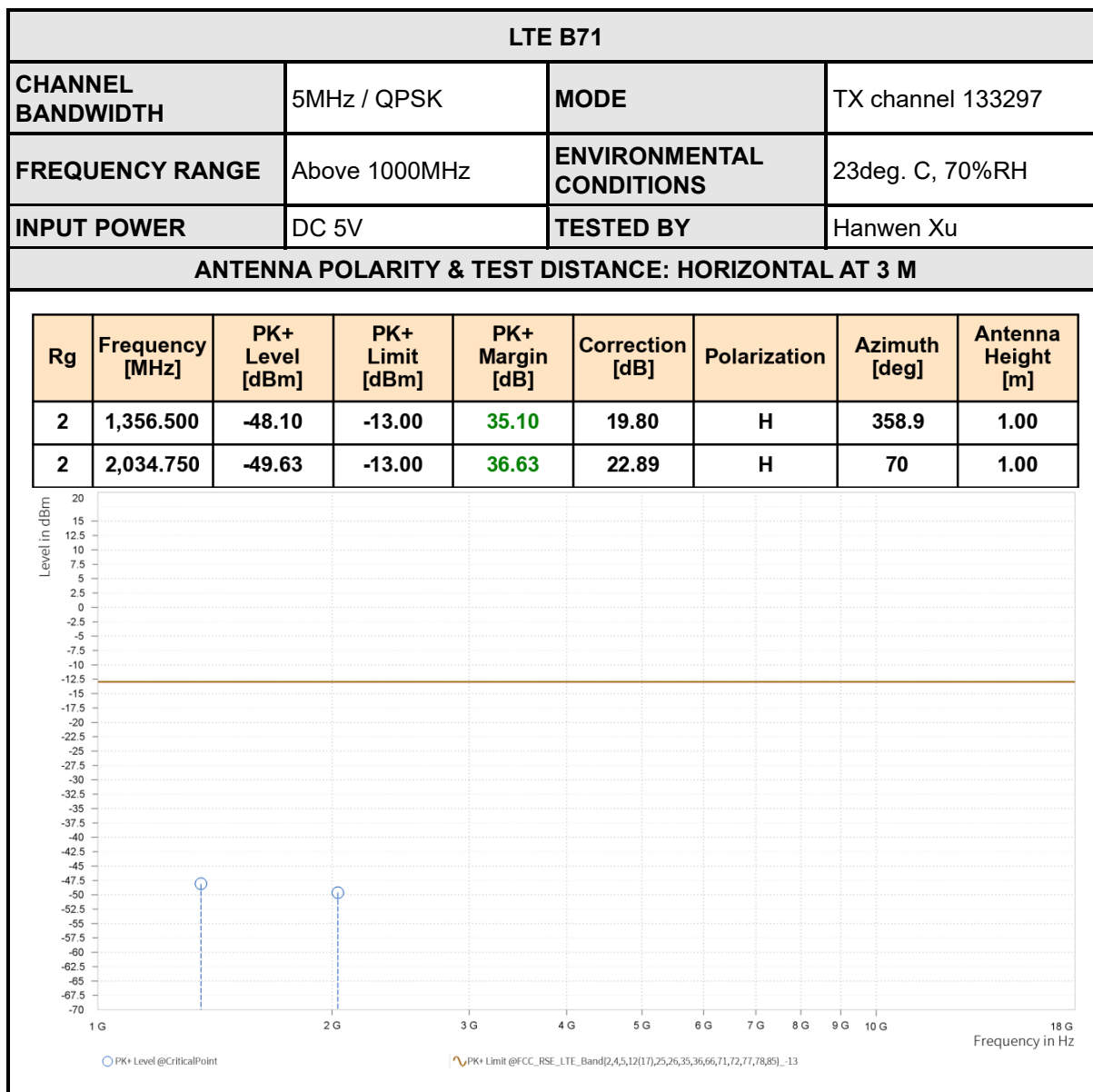


|                   |               |                          |                  |
|-------------------|---------------|--------------------------|------------------|
| CHANNEL BANDWIDTH | 10MHz / QPSK  | MODE                     | TX channel 27710 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH  |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu        |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 5  | 4,611.500       | -55.94          | -40.00          | 15.94           | 18.65           | V            | 206.6         | 2.00               |
| 5  | 6,916.500       | -51.71          | -40.00          | 11.71           | 23.09           | V            | 358.2         | 1.00               |



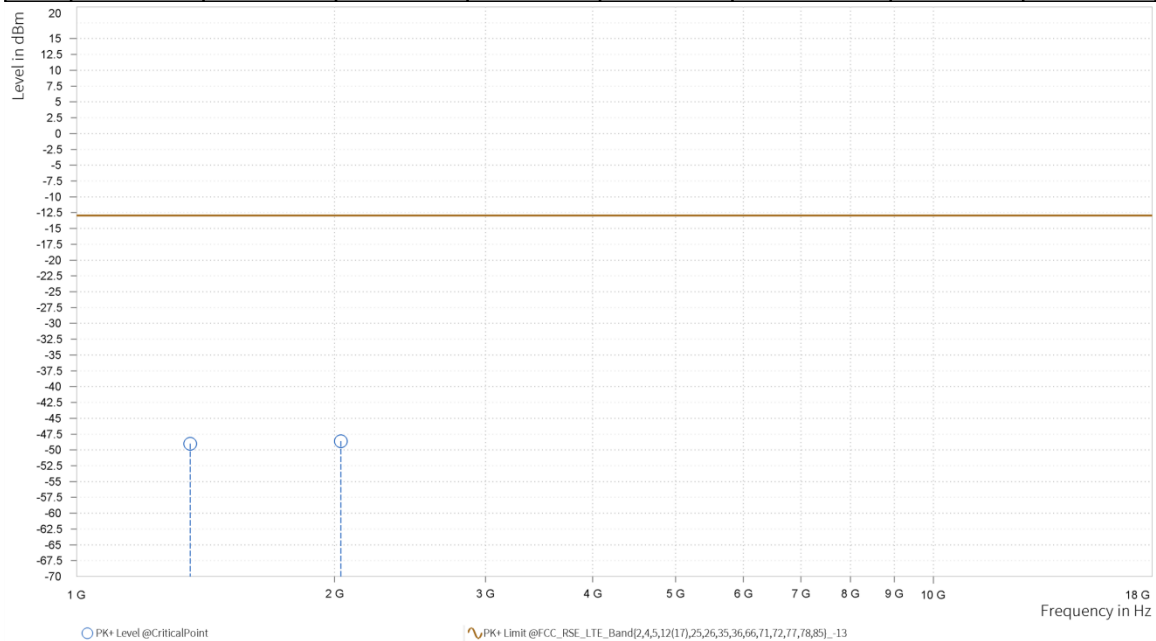




|                   |               |                          |                   |
|-------------------|---------------|--------------------------|-------------------|
| CHANNEL BANDWIDTH | 5MHz / QPSK   | MODE                     | TX channel 133297 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH   |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu         |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,356.500       | -49.02          | -13.00          | 36.02           | 19.88           | V            | 1             | 1.00               |
| 2  | 2,034.750       | -48.62          | -13.00          | 35.62           | 23.43           | V            | 72.4          | 1.00               |

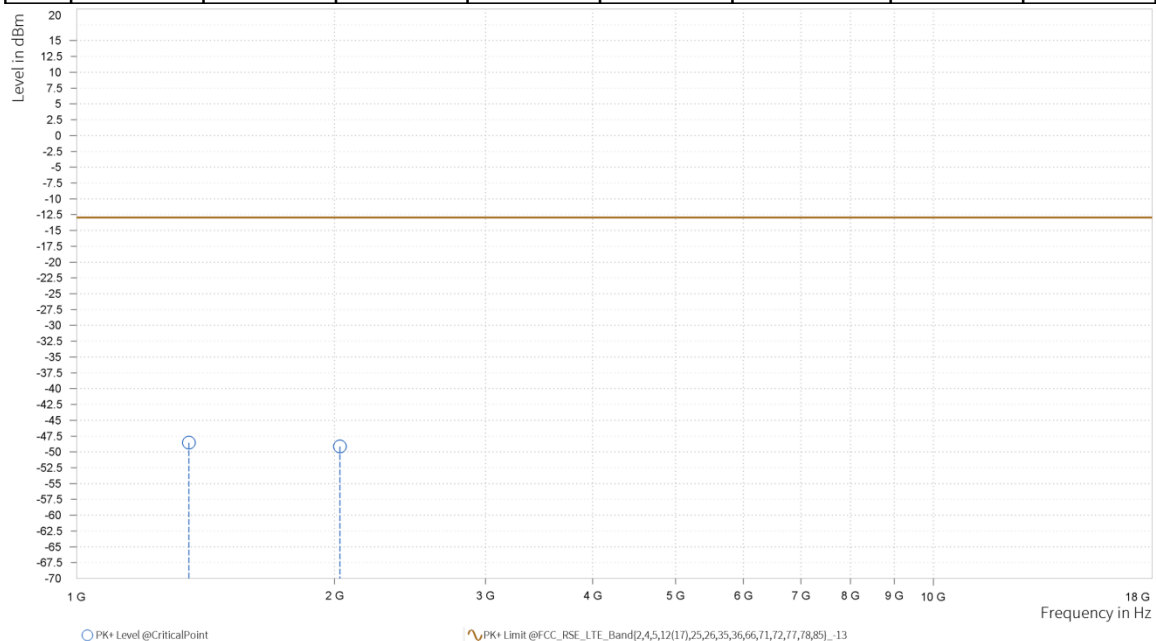




|                   |               |                          |                   |
|-------------------|---------------|--------------------------|-------------------|
| CHANNEL BANDWIDTH | 10MHz / QPSK  | MODE                     | TX channel 133297 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH   |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu         |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,352.000       | -48.53          | -13.00          | 35.53           | 19.24           | H            | 1.7           | 2.00               |
| 2  | 2,028.000       | -49.16          | -13.00          | 36.16           | 22.94           | H            | 292.4         | 2.00               |

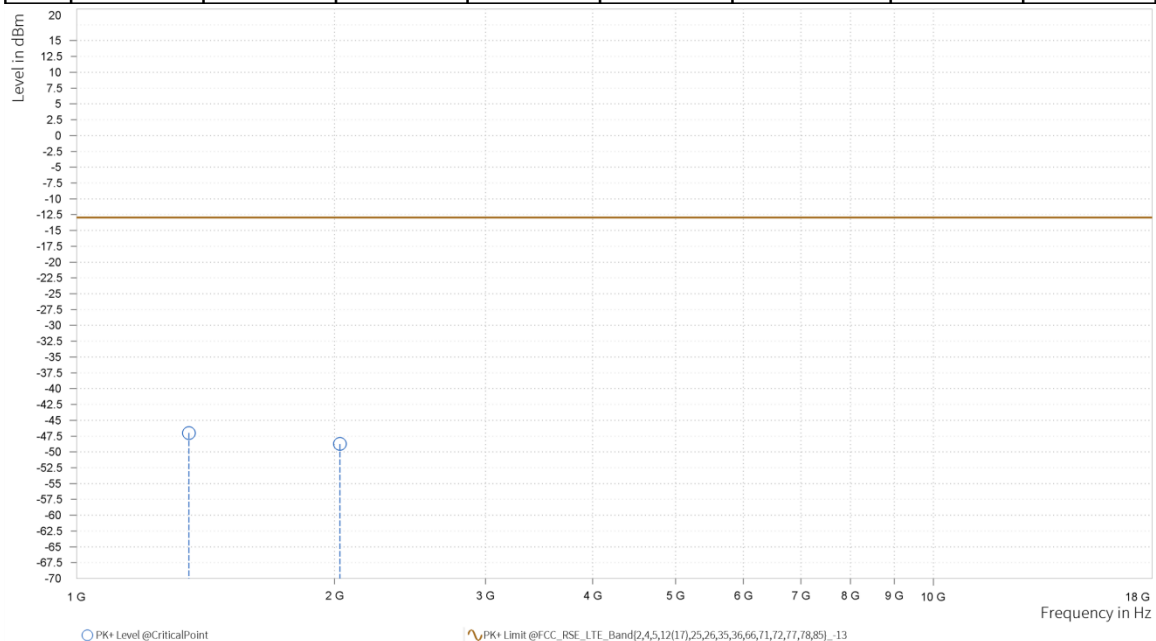




|                   |               |                          |                   |
|-------------------|---------------|--------------------------|-------------------|
| CHANNEL BANDWIDTH | 10MHz / QPSK  | MODE                     | TX channel 133297 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH   |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu         |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,352.000       | -47.02          | -13.00          | 34.02           | 19.30           | V            | 71.2          | 1.00               |
| 2  | 2,028.000       | -48.74          | -13.00          | 35.74           | 23.51           | V            | 358.9         | 1.00               |



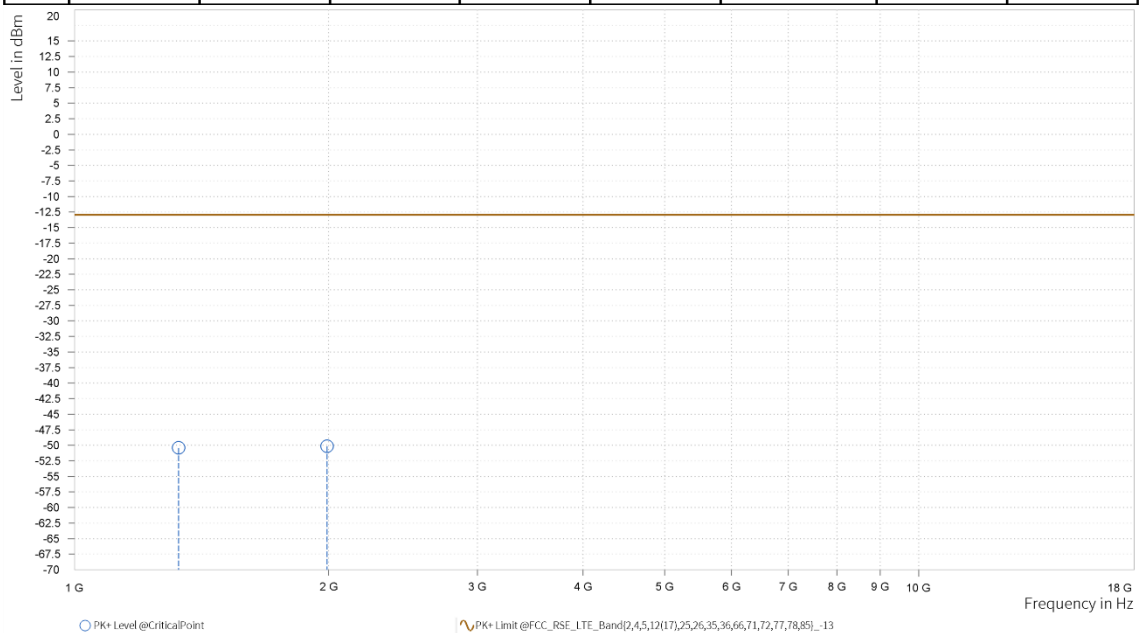


CH133197

|                   |               |                          |                   |
|-------------------|---------------|--------------------------|-------------------|
| CHANNEL BANDWIDTH | 15MHz / QPSK  | MODE                     | TX channel 133197 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH   |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu         |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,327.500       | -50.42          | -13.00          | 37.42           | 16.38           | H            | 359           | 2.00               |
| 2  | 1,991.250       | -50.16          | -13.00          | 37.16           | 21.19           | H            | 357.7         | 1.00               |

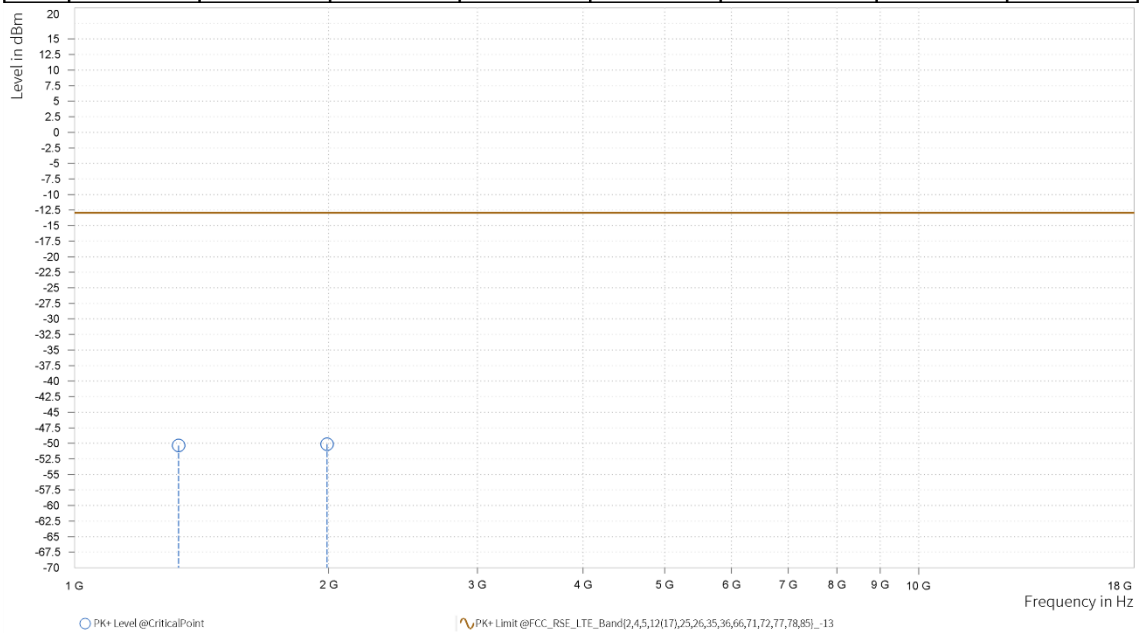




|                   |               |                          |                   |
|-------------------|---------------|--------------------------|-------------------|
| CHANNEL BANDWIDTH | 15MHz / QPSK  | MODE                     | TX channel 133197 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH   |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu         |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,327.500       | -50.37          | -13.00          | 37.37           | 16.45           | V            | 67.7          | 1.00               |
| 2  | 1,991.250       | -50.12          | -13.00          | 37.12           | 21.16           | V            | 1             | 1.00               |



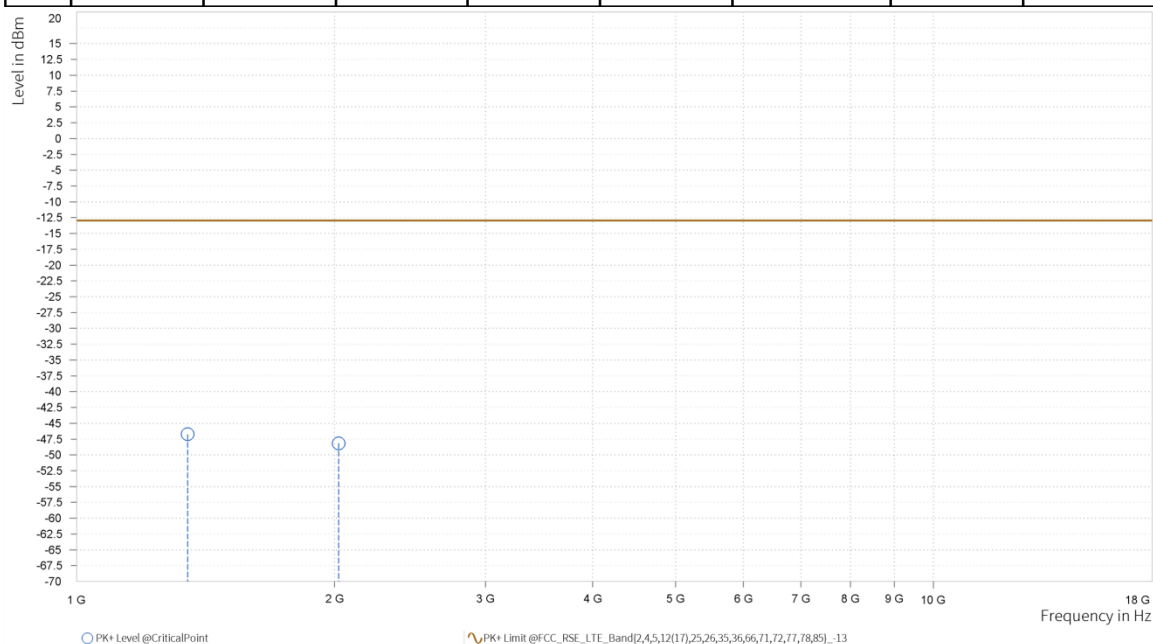


CH133297

|                   |               |                          |                   |
|-------------------|---------------|--------------------------|-------------------|
| CHANNEL BANDWIDTH | 15MHz / QPSK  | MODE                     | TX channel 133297 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH   |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu         |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,347.500       | -46.74          | -13.00          | 33.74           | 18.90           | H            | 359           | 2.00               |
| 2  | 2,021.250       | -48.16          | -13.00          | 35.16           | 22.60           | H            | 1             | 1.00               |

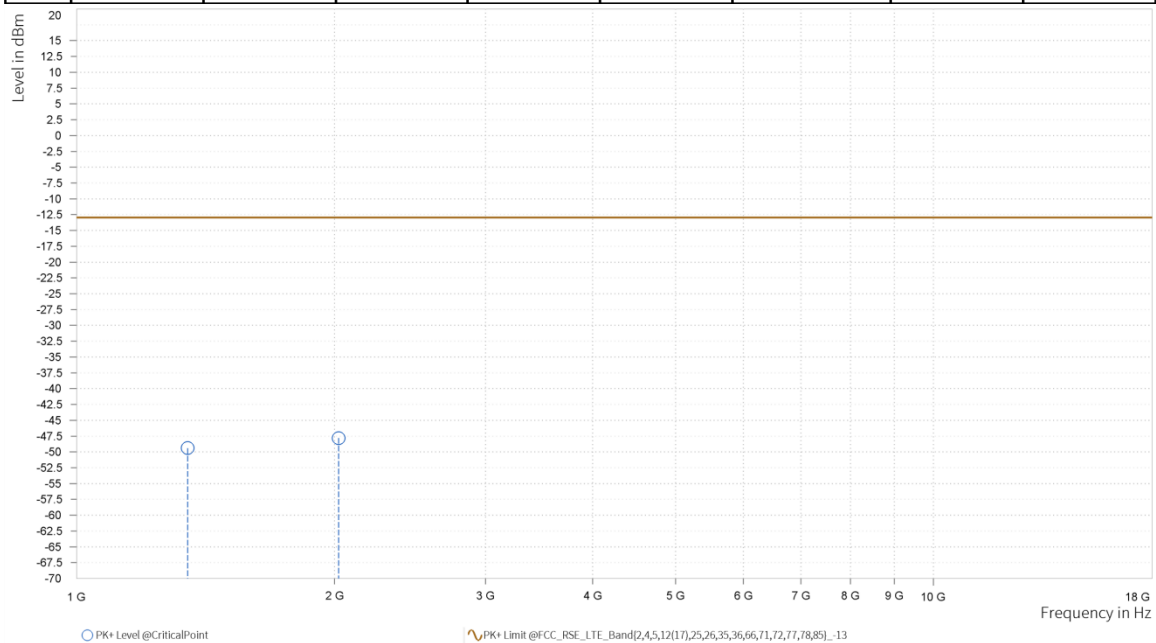




|                   |               |                          |                   |
|-------------------|---------------|--------------------------|-------------------|
| CHANNEL BANDWIDTH | 15MHz / QPSK  | MODE                     | TX channel 133297 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH   |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu         |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,347.500       | -49.39          | -13.00          | 36.39           | 18.96           | V            | 66.5          | 1.00               |
| 2  | 2,021.250       | -47.81          | -13.00          | 34.81           | 23.05           | V            | 357.4         | 1.00               |



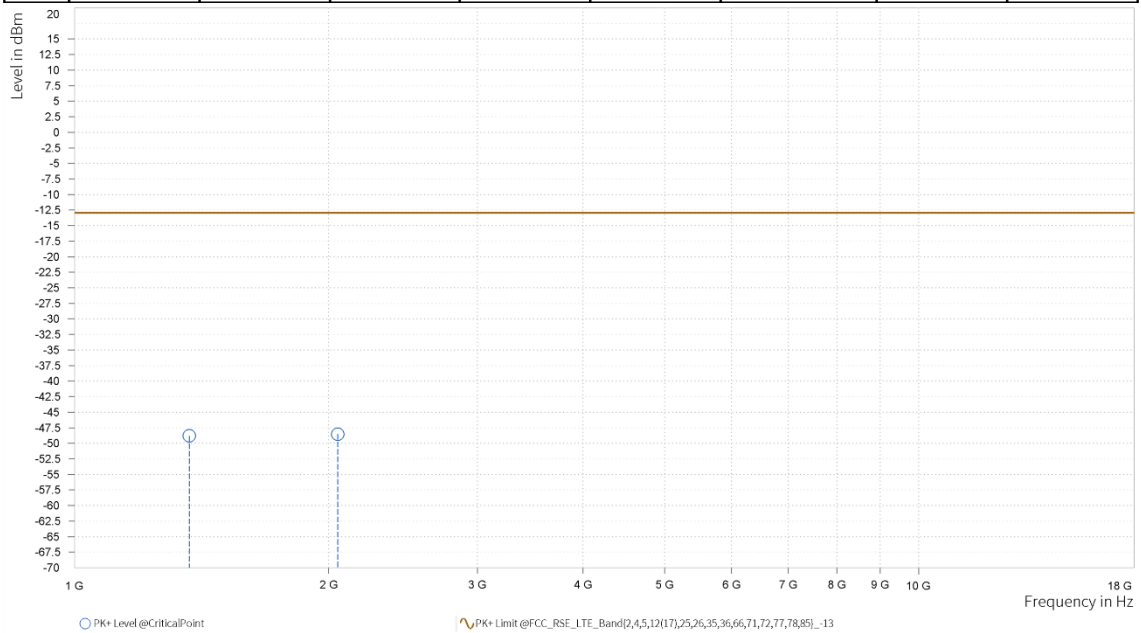


CH133397

|                   |               |                          |                   |
|-------------------|---------------|--------------------------|-------------------|
| CHANNEL BANDWIDTH | 15MHz / QPSK  | MODE                     | TX channel 133397 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH   |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu         |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,366.900       | -48.79          | -13.00          | 35.79           | 19.71           | H            | 70            | 1.00               |
| 2  | 2,050.350       | -48.51          | -13.00          | 35.51           | 22.99           | H            | 1             | 1.00               |

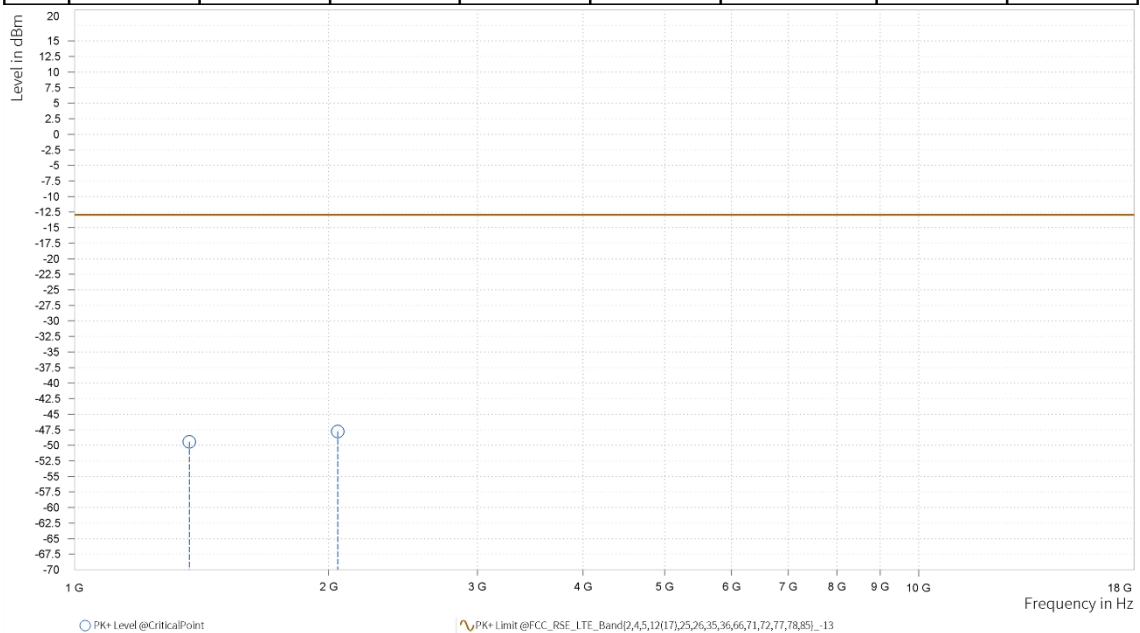




|                   |               |                          |                   |
|-------------------|---------------|--------------------------|-------------------|
| CHANNEL BANDWIDTH | 15MHz / QPSK  | MODE                     | TX channel 133397 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH   |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu         |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,366.900       | -49.42          | -13.00          | 36.42           | 19.79           | V            | 67.6          | 1.00               |
| 2  | 2,050.350       | -47.75          | -13.00          | 34.75           | 23.38           | V            | 1.9           | 2.00               |

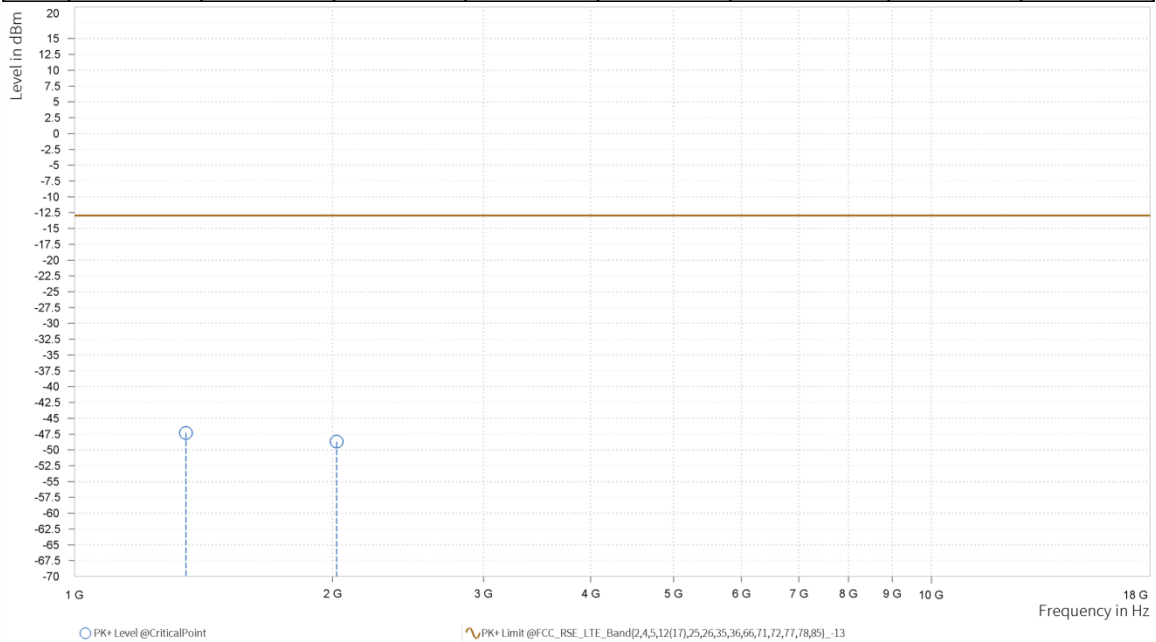




|                   |               |                          |                   |
|-------------------|---------------|--------------------------|-------------------|
| CHANNEL BANDWIDTH | 20MHz / QPSK  | MODE                     | TX channel 133322 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH   |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu         |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,348.000       | -47.31          | -13.00          | 34.31           | 18.92           | H            | 359           | 2.00               |
| 2  | 2,022.000       | -48.70          | -13.00          | 35.70           | 22.65           | H            | 292.4         | 2.00               |

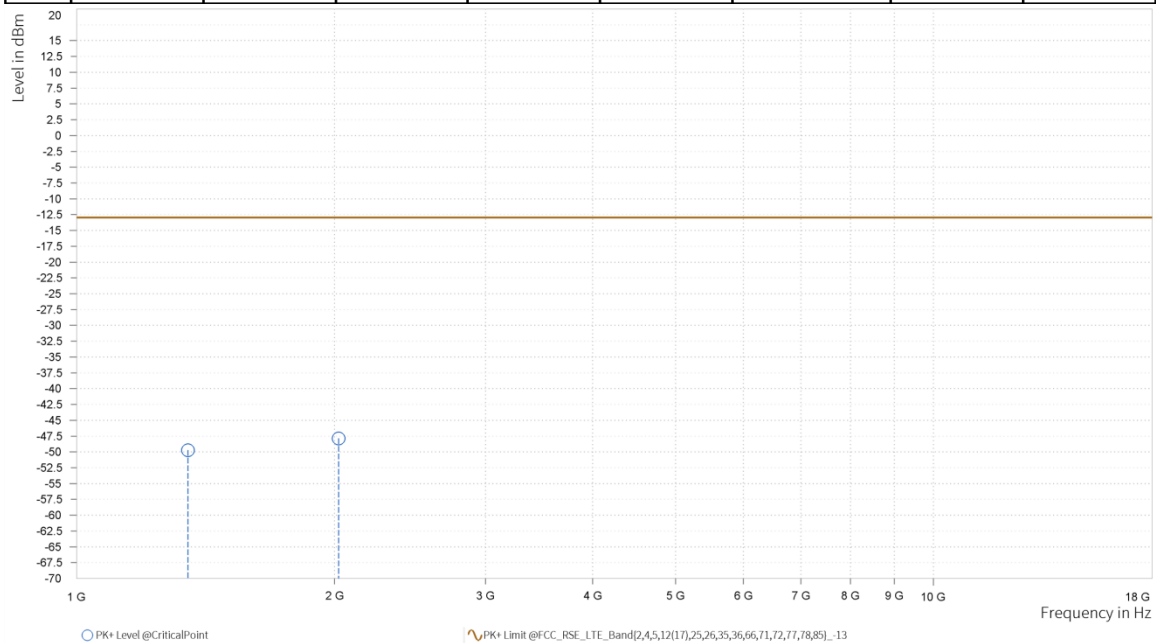




|                   |               |                          |                   |
|-------------------|---------------|--------------------------|-------------------|
| CHANNEL BANDWIDTH | 20MHz / QPSK  | MODE                     | TX channel 133322 |
| FREQUENCY RANGE   | Above 1000MHz | ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH   |
| INPUT POWER       | DC 5V         | TESTED BY                | Hanwen Xu         |

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2  | 1,348.000       | -49.74          | -13.00          | 36.74           | 18.98           | V            | 67.7          | 1.00               |
| 2  | 2,022.000       | -47.87          | -13.00          | 34.87           | 23.12           | V            | 67.7          | 1.00               |

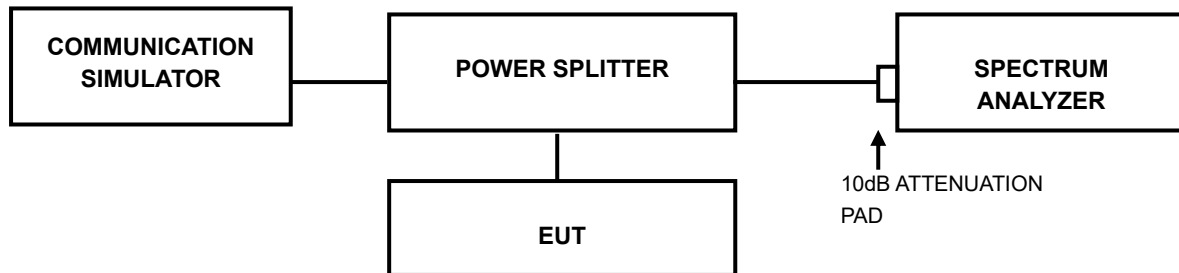


### 3.7 PEAK TO AVERAGE RATIO

#### 3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

#### 3.7.2 TEST SETUP



#### 3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

#### 3.7.4 TEST RESULTS

Please Refer to Appendix of this test report.



## 4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

Accredited Test Lab Cert 6613.01

If you have any comments, please feel free to contact us at the following:

**Suzhou EMC/RF Lab:**

Tel: +86 (0557) 368 1008



## **5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.



## 6 Appendix

### LTE BAND7

### Peak to Average Ratio Results

#### Test Result

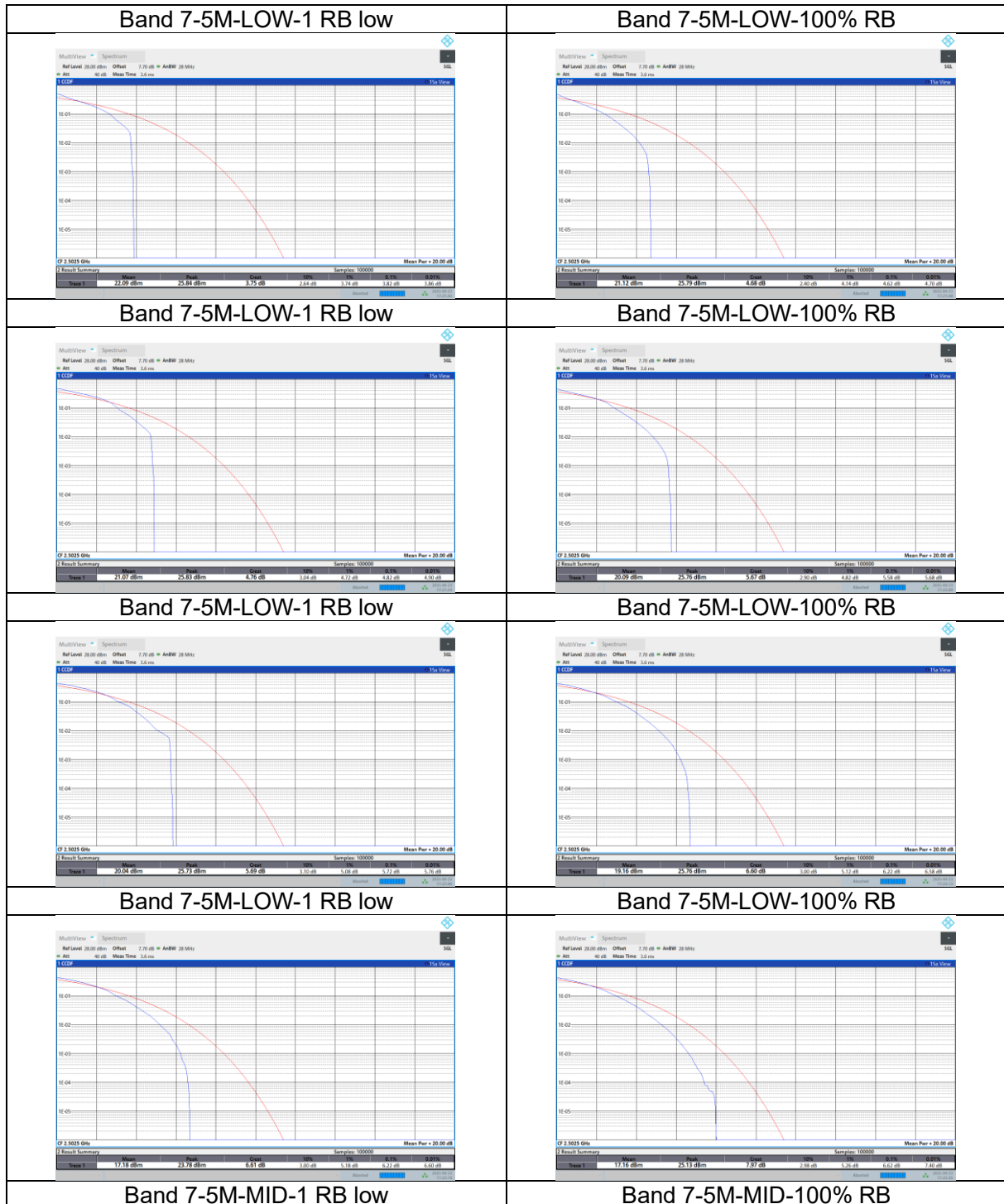
| Bandwidth | Modulation | Frequency (MHz) | RB Configuration | Result (dB) | Limit (dB) | Verdict |
|-----------|------------|-----------------|------------------|-------------|------------|---------|
| 5MHz      | QPSK       | 2502.5          | 1 RB low         | 3.82        | 13         | PASS    |
| 5MHz      | QPSK       | 2502.5          | 100% RB          | 4.62        | 13         | PASS    |
| 5MHz      | 16QAM      | 2502.5          | 1 RB low         | 4.82        | 13         | PASS    |
| 5MHz      | 16QAM      | 2502.5          | 100% RB          | 5.58        | 13         | PASS    |
| 5MHz      | 64QAM      | 2502.5          | 1 RB low         | 5.72        | 13         | PASS    |
| 5MHz      | 64QAM      | 2502.5          | 100% RB          | 6.22        | 13         | PASS    |
| 5MHz      | 256QAM     | 2502.5          | 1 RB low         | 6.22        | 13         | PASS    |
| 5MHz      | 256QAM     | 2502.5          | 100% RB          | 6.62        | 13         | PASS    |
| 5MHz      | QPSK       | 2535            | 1 RB low         | 4.04        | 13         | PASS    |
| 5MHz      | QPSK       | 2535            | 100% RB          | 4.90        | 13         | PASS    |
| 5MHz      | 16QAM      | 2535            | 1 RB low         | 4.88        | 13         | PASS    |
| 5MHz      | 16QAM      | 2535            | 100% RB          | 5.82        | 13         | PASS    |
| 5MHz      | 64QAM      | 2535            | 1 RB low         | 6.06        | 13         | PASS    |
| 5MHz      | 64QAM      | 2535            | 100% RB          | 6.40        | 13         | PASS    |
| 5MHz      | 256QAM     | 2535            | 1 RB low         | 7.44        | 13         | PASS    |
| 5MHz      | 256QAM     | 2535            | 100% RB          | 6.70        | 13         | PASS    |
| 5MHz      | QPSK       | 2567.5          | 1 RB low         | 4.08        | 13         | PASS    |
| 5MHz      | QPSK       | 2567.5          | 100% RB          | 4.94        | 13         | PASS    |
| 5MHz      | 16QAM      | 2567.5          | 1 RB low         | 5.08        | 13         | PASS    |
| 5MHz      | 16QAM      | 2567.5          | 100% RB          | 5.96        | 13         | PASS    |
| 5MHz      | 64QAM      | 2567.5          | 1 RB low         | 5.70        | 13         | PASS    |
| 5MHz      | 64QAM      | 2567.5          | 100% RB          | 6.40        | 13         | PASS    |
| 5MHz      | 256QAM     | 2567.5          | 1 RB low         | 6.50        | 13         | PASS    |
| 5MHz      | 256QAM     | 2567.5          | 100% RB          | 6.72        | 13         | PASS    |
| 10MHz     | QPSK       | 2505            | 1 RB low         | 3.68        | 13         | PASS    |
| 10MHz     | QPSK       | 2505            | 100% RB          | 4.68        | 13         | PASS    |
| 10MHz     | 16QAM      | 2505            | 1 RB low         | 4.58        | 13         | PASS    |
| 10MHz     | 16QAM      | 2505            | 100% RB          | 5.58        | 13         | PASS    |
| 10MHz     | 64QAM      | 2505            | 1 RB low         | 5.60        | 13         | PASS    |
| 10MHz     | 64QAM      | 2505            | 100% RB          | 6.16        | 13         | PASS    |
| 10MHz     | 256QAM     | 2505            | 1 RB low         | 6.38        | 13         | PASS    |
| 10MHz     | 256QAM     | 2505            | 100% RB          | 6.66        | 13         | PASS    |
| 10MHz     | QPSK       | 2535            | 1 RB low         | 4.00        | 13         | PASS    |
| 10MHz     | QPSK       | 2535            | 100% RB          | 4.96        | 13         | PASS    |
| 10MHz     | 16QAM      | 2535            | 1 RB low         | 4.98        | 13         | PASS    |
| 10MHz     | 16QAM      | 2535            | 100% RB          | 5.96        | 13         | PASS    |
| 10MHz     | 64QAM      | 2535            | 1 RB low         | 5.52        | 13         | PASS    |
| 10MHz     | 64QAM      | 2535            | 100% RB          | 6.42        | 13         | PASS    |
| 10MHz     | 256QAM     | 2535            | 1 RB low         | 6.64        | 13         | PASS    |
| 10MHz     | 256QAM     | 2535            | 100% RB          | 6.66        | 13         | PASS    |
| 10MHz     | QPSK       | 2565            | 1 RB low         | 4.04        | 13         | PASS    |
| 10MHz     | QPSK       | 2565            | 100% RB          | 5.02        | 13         | PASS    |

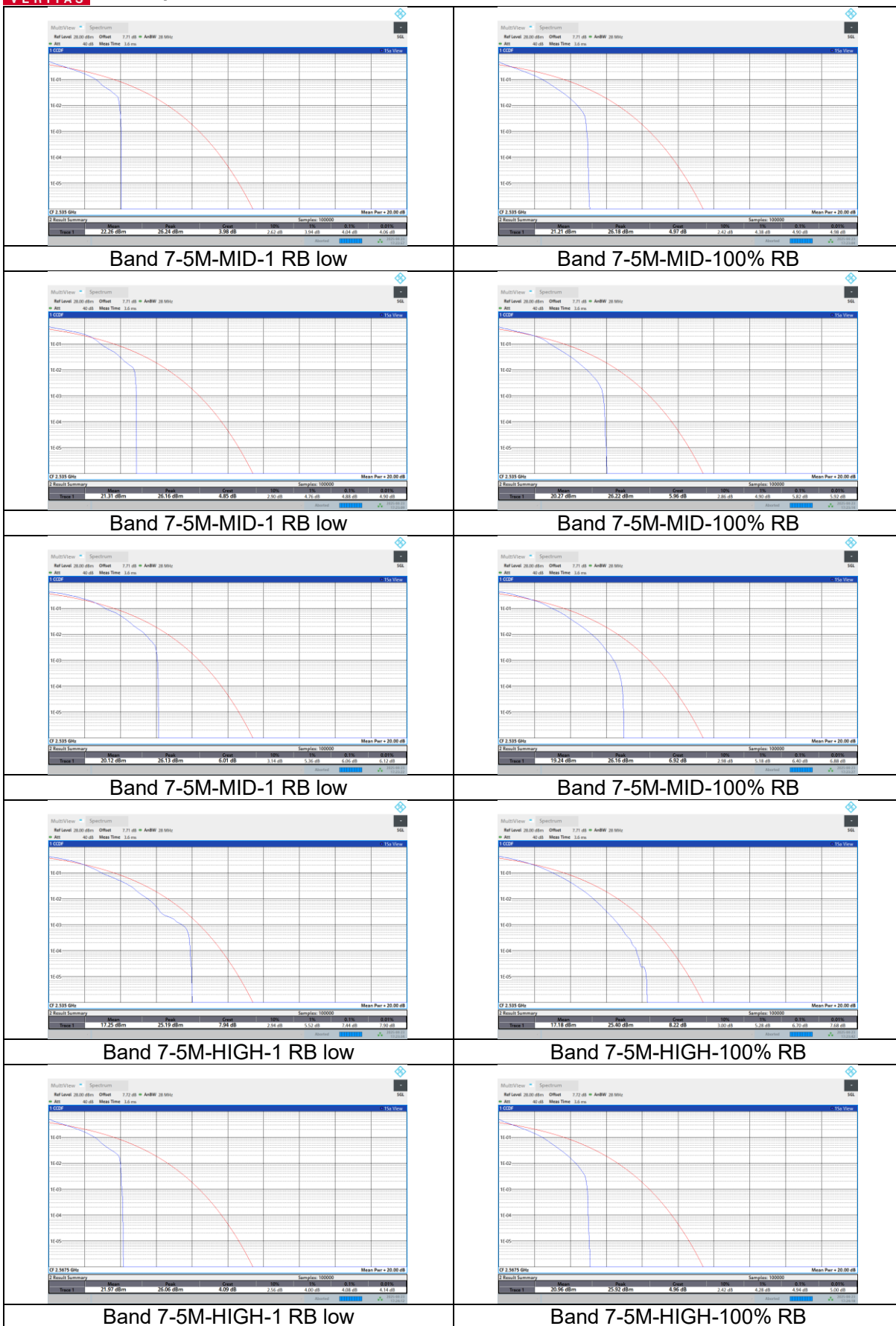
**BUREAU VERITAS** Test Report No.: PSU-QSU2504140116RF03

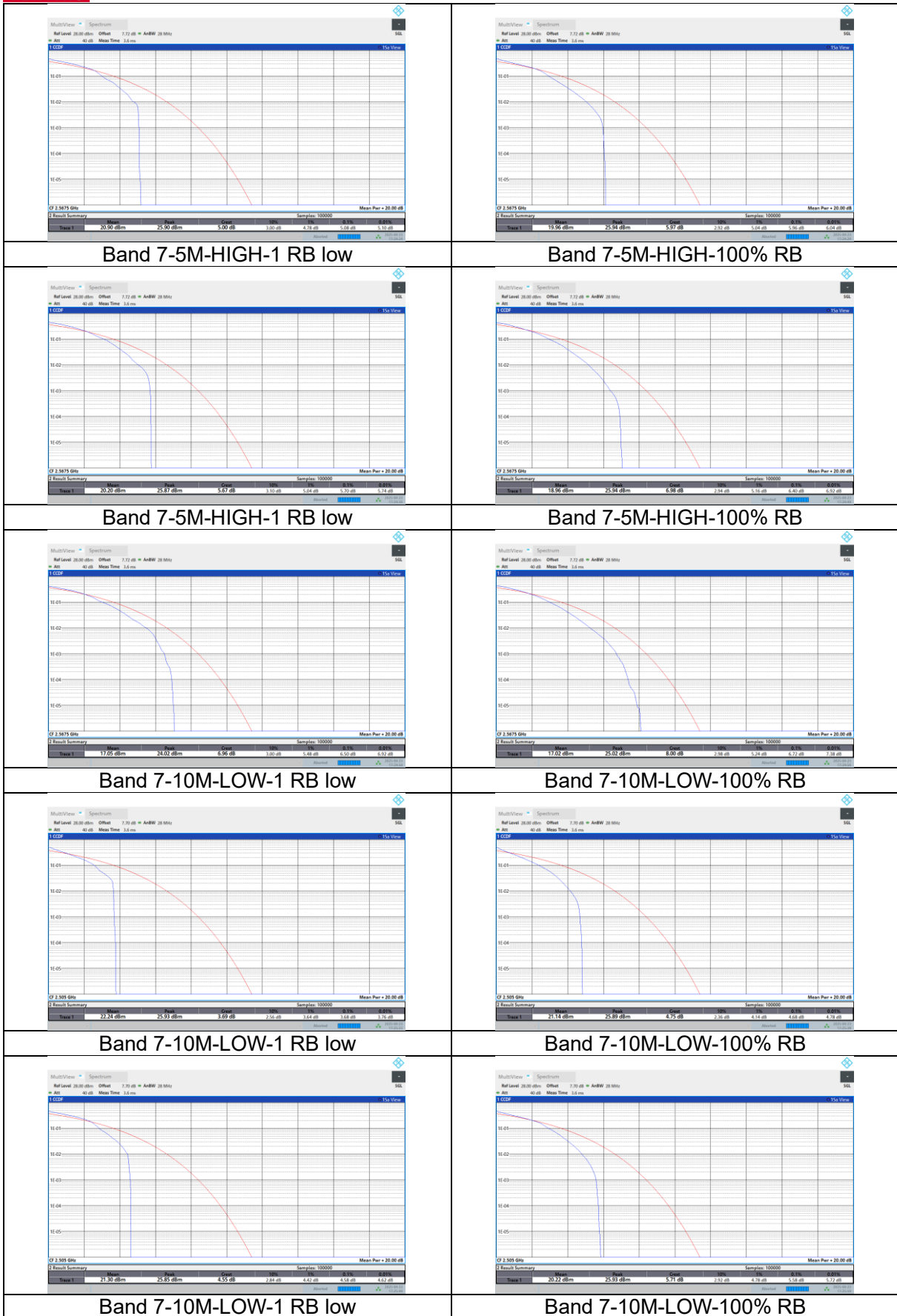
|       |        |        |          |      |    |      |
|-------|--------|--------|----------|------|----|------|
| 10MHz | 16QAM  | 2565   | 1 RB low | 4.84 | 13 | PASS |
| 10MHz | 16QAM  | 2565   | 100% RB  | 5.88 | 13 | PASS |
| 10MHz | 64QAM  | 2565   | 1 RB low | 5.72 | 13 | PASS |
| 10MHz | 64QAM  | 2565   | 100% RB  | 6.42 | 13 | PASS |
| 10MHz | 256QAM | 2565   | 1 RB low | 6.30 | 13 | PASS |
| 10MHz | 256QAM | 2565   | 100% RB  | 6.80 | 13 | PASS |
| 15MHz | QPSK   | 2507.5 | 1 RB low | 3.84 | 13 | PASS |
| 15MHz | QPSK   | 2507.5 | 100% RB  | 4.94 | 13 | PASS |
| 15MHz | 16QAM  | 2507.5 | 1 RB low | 4.42 | 13 | PASS |
| 15MHz | 16QAM  | 2507.5 | 100% RB  | 5.80 | 13 | PASS |
| 15MHz | 64QAM  | 2507.5 | 1 RB low | 5.46 | 13 | PASS |
| 15MHz | 64QAM  | 2507.5 | 100% RB  | 6.32 | 13 | PASS |
| 15MHz | 256QAM | 2507.5 | 1 RB low | 6.44 | 13 | PASS |
| 15MHz | 256QAM | 2507.5 | 100% RB  | 6.66 | 13 | PASS |
| 15MHz | QPSK   | 2535   | 1 RB low | 4.04 | 13 | PASS |
| 15MHz | QPSK   | 2535   | 100% RB  | 5.26 | 13 | PASS |
| 15MHz | 16QAM  | 2535   | 1 RB low | 4.98 | 13 | PASS |
| 15MHz | 16QAM  | 2535   | 100% RB  | 6.14 | 13 | PASS |
| 15MHz | 64QAM  | 2535   | 1 RB low | 5.64 | 13 | PASS |
| 15MHz | 64QAM  | 2535   | 100% RB  | 6.48 | 13 | PASS |
| 15MHz | 256QAM | 2535   | 1 RB low | 6.74 | 13 | PASS |
| 15MHz | 256QAM | 2535   | 100% RB  | 6.78 | 13 | PASS |
| 15MHz | QPSK   | 2562.5 | 1 RB low | 4.04 | 13 | PASS |
| 15MHz | QPSK   | 2562.5 | 100% RB  | 5.20 | 13 | PASS |
| 15MHz | 16QAM  | 2562.5 | 1 RB low | 4.96 | 13 | PASS |
| 15MHz | 16QAM  | 2562.5 | 100% RB  | 6.04 | 13 | PASS |
| 15MHz | 64QAM  | 2562.5 | 1 RB low | 5.76 | 13 | PASS |
| 15MHz | 64QAM  | 2562.5 | 100% RB  | 6.42 | 13 | PASS |
| 15MHz | 256QAM | 2562.5 | 1 RB low | 6.22 | 13 | PASS |
| 15MHz | 256QAM | 2562.5 | 100% RB  | 6.78 | 13 | PASS |
| 20MHz | QPSK   | 2510   | 1 RB low | 3.76 | 13 | PASS |
| 20MHz | QPSK   | 2510   | 100% RB  | 5.06 | 13 | PASS |
| 20MHz | 16QAM  | 2510   | 1 RB low | 4.42 | 13 | PASS |
| 20MHz | 16QAM  | 2510   | 100% RB  | 5.90 | 13 | PASS |
| 20MHz | 64QAM  | 2510   | 1 RB low | 5.46 | 13 | PASS |
| 20MHz | 64QAM  | 2510   | 100% RB  | 6.36 | 13 | PASS |
| 20MHz | 256QAM | 2510   | 1 RB low | 6.30 | 13 | PASS |
| 20MHz | 256QAM | 2510   | 100% RB  | 6.76 | 13 | PASS |
| 20MHz | QPSK   | 2535   | 1 RB low | 4.06 | 13 | PASS |
| 20MHz | QPSK   | 2535   | 100% RB  | 5.22 | 13 | PASS |
| 20MHz | 16QAM  | 2535   | 1 RB low | 4.80 | 13 | PASS |
| 20MHz | 16QAM  | 2535   | 100% RB  | 6.12 | 13 | PASS |
| 20MHz | 64QAM  | 2535   | 1 RB low | 5.74 | 13 | PASS |
| 20MHz | 64QAM  | 2535   | 100% RB  | 6.48 | 13 | PASS |
| 20MHz | 256QAM | 2535   | 1 RB low | 6.80 | 13 | PASS |
| 20MHz | 256QAM | 2535   | 100% RB  | 6.82 | 13 | PASS |
| 20MHz | QPSK   | 2560   | 1 RB low | 4.04 | 13 | PASS |
| 20MHz | QPSK   | 2560   | 100% RB  | 5.18 | 13 | PASS |
| 20MHz | 16QAM  | 2560   | 1 RB low | 4.90 | 13 | PASS |
| 20MHz | 16QAM  | 2560   | 100% RB  | 6.04 | 13 | PASS |
| 20MHz | 64QAM  | 2560   | 1 RB low | 5.74 | 13 | PASS |
| 20MHz | 64QAM  | 2560   | 100% RB  | 6.44 | 13 | PASS |
| 20MHz | 256QAM | 2560   | 1 RB low | 6.44 | 13 | PASS |
| 20MHz | 256QAM | 2560   | 100% RB  | 6.80 | 13 | PASS |

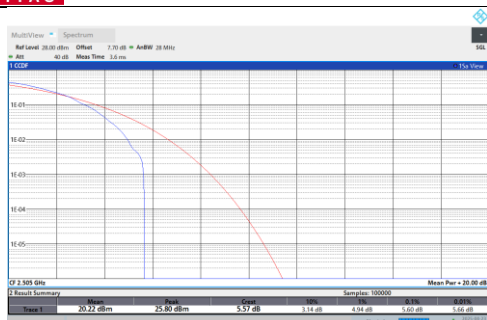


## Test Graphs

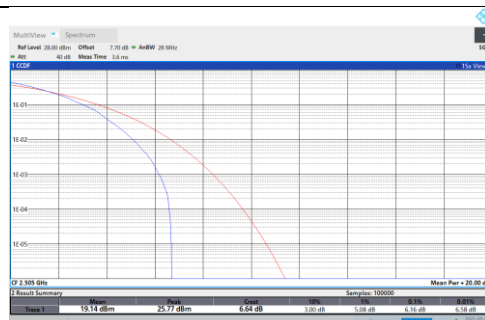




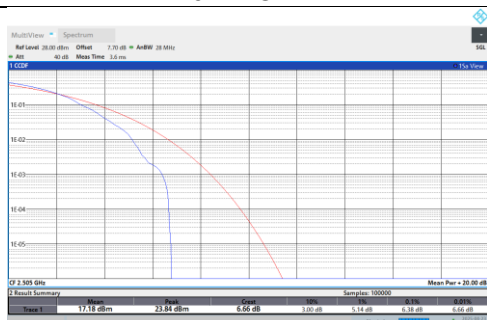




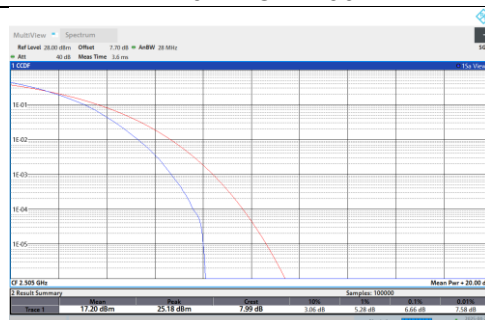
Band 7-10M-LOW-1 RB low



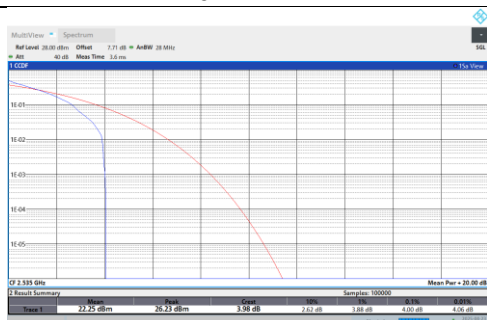
Band 7-10M-LOW-100% RB



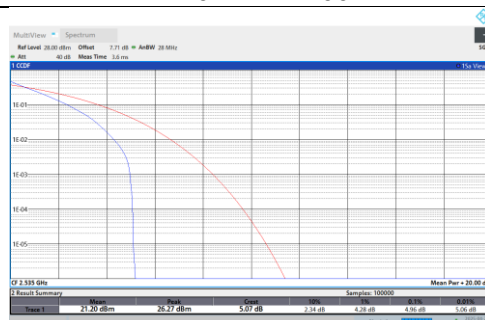
Band 7-10M-MID-1 RB low



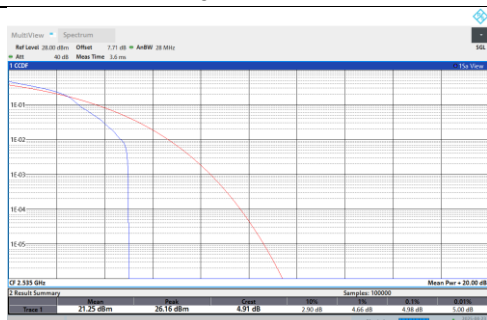
Band 7-10M-MID-100% RB



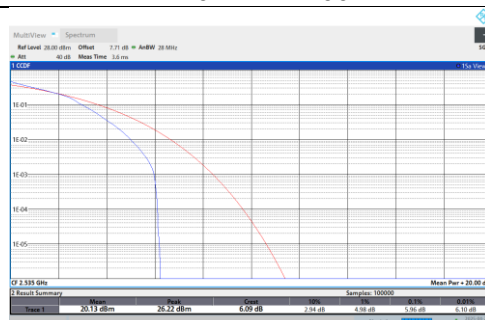
Band 7-10M-MID-1 RB low



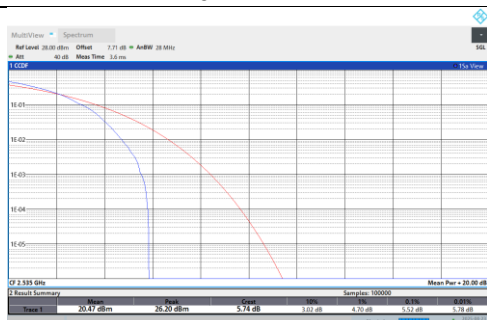
Band 7-10M-MID-100% RB



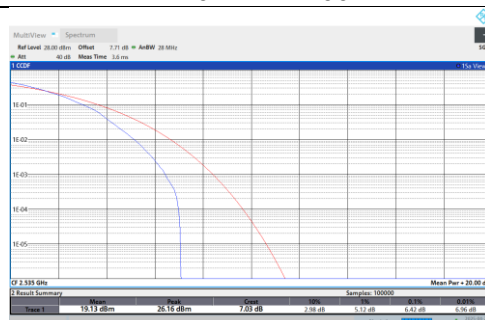
Band 7-10M-MID-1 RB low



Band 7-10M-MID-100% RB



Band 7-10M-MID-1 RB low



Band 7-10M-MID-100% RB

