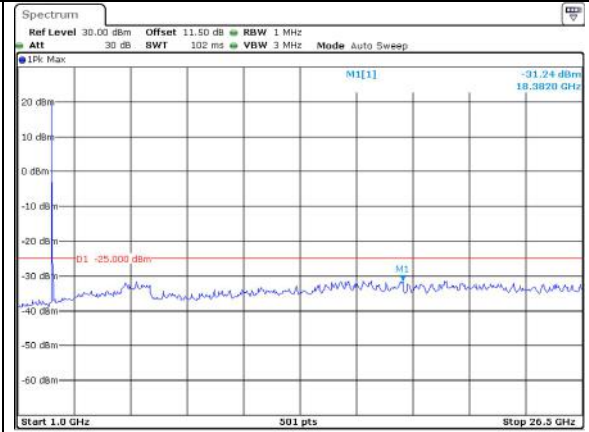
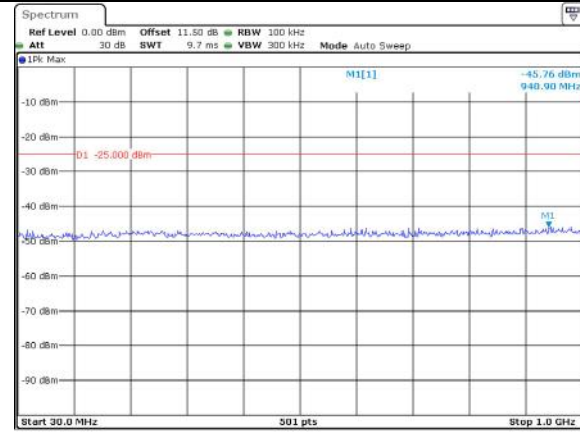


### Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

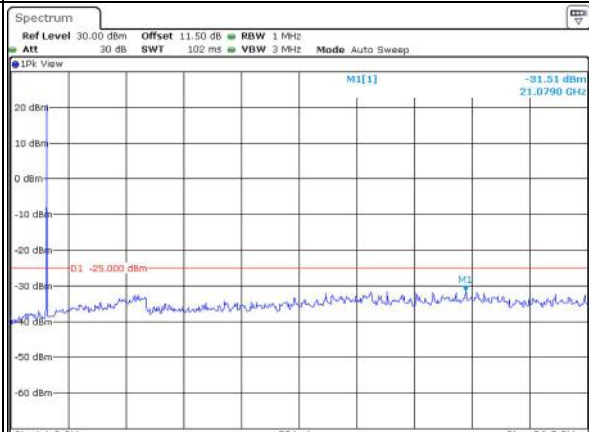
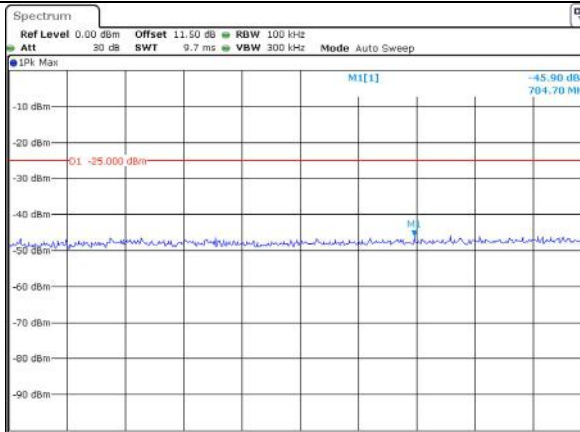
Lowest



ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 28.OCT.2023 00:43:04

ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 28.OCT.2023 00:43:30

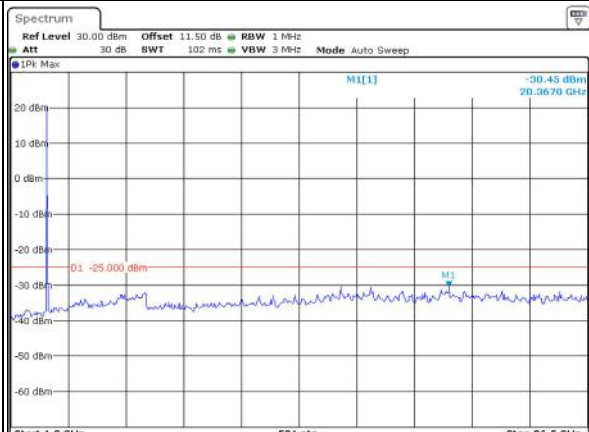
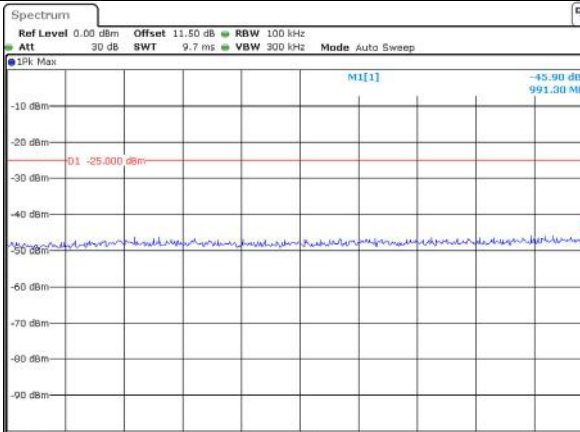
Middle



ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 28.OCT.2023 00:44:04

ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 28.OCT.2023 00:44:33

Highest



ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 28.OCT.2023 00:45:00

ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 28.OCT.2023 00:45:20

Spurious Emissions at Antenna Terminal

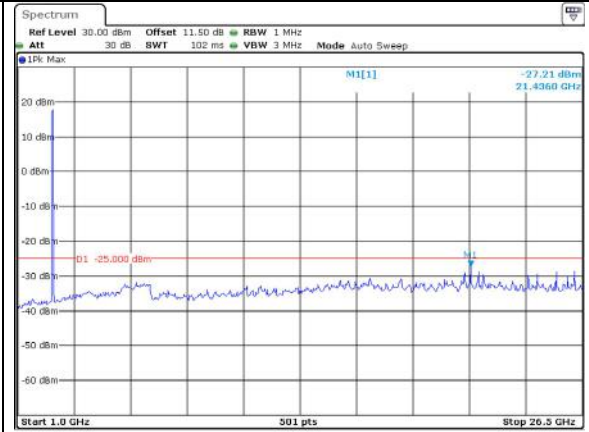
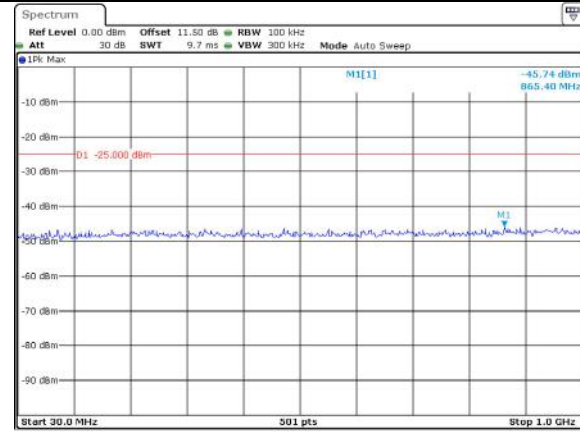
| Channel | 10MHz Bandwidth QPSK  |   |
|---------|---|---|
| Lowest  | <p>Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz<br/>Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -45.32 dBm 979.00 MHz</p> <p>D1 -25.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 28.OCT.2023 00:45:52</p> | <p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz<br/>Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -30.94 dBm 15.5820 GHz</p> <p>D1 -25.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 26.5 GHz</p> <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 28.OCT.2023 00:46:18</p> |
| Middle  | <p>Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz<br/>Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -45.88 dBm 805.40 MHz</p> <p>D1 -25.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 28.OCT.2023 00:46:45</p> | <p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz<br/>Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -31.52 dBm 19.6540 GHz</p> <p>D1 -25.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 26.5 GHz</p> <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 28.OCT.2023 00:47:11</p> |
| Highest | <p>Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz<br/>Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -45.19 dBm 319.60 MHz</p> <p>D1 -25.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 28.OCT.2023 00:47:41</p> | <p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz<br/>Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -31.06 dBm 21.5080 GHz</p> <p>D1 -25.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 26.5 GHz</p> <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 28.OCT.2023 00:48:05</p> |

Spurious Emissions at Antenna Terminal

Channel

15MHz Bandwidth QPSK

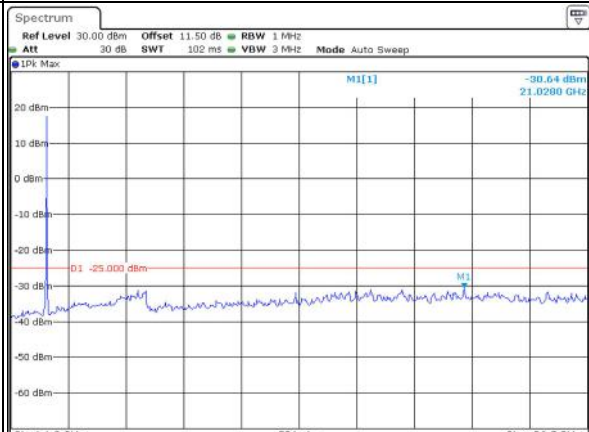
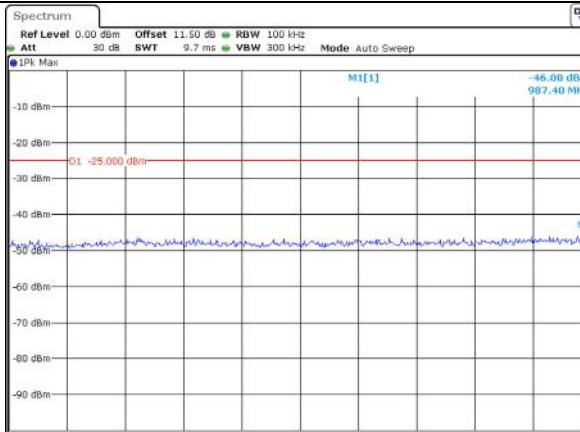
Lowest



ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 28.OCT.2023 00:48:33

ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 28.OCT.2023 00:49:14

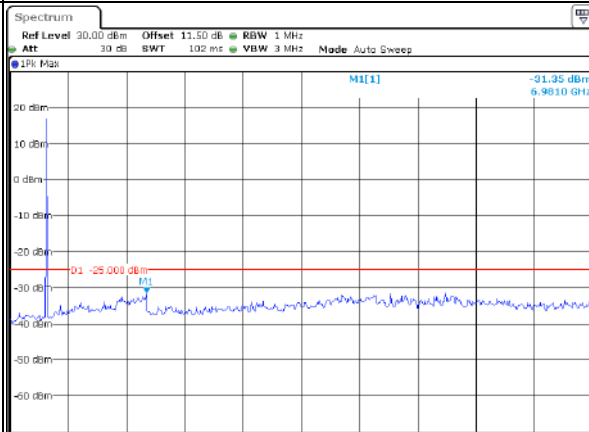
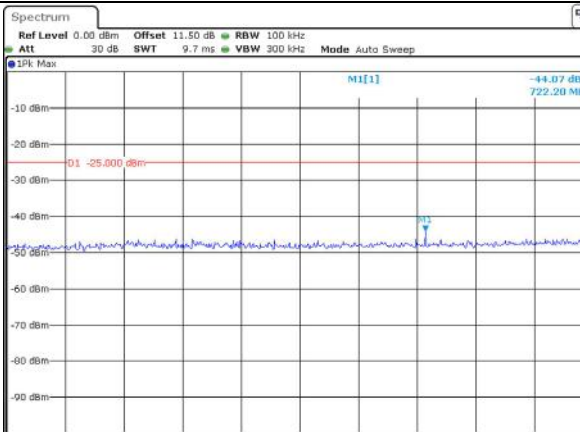
Middle



ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 28.OCT.2023 00:49:42

ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 28.OCT.2023 00:50:11

Highest



ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 28.OCT.2023 00:50:39

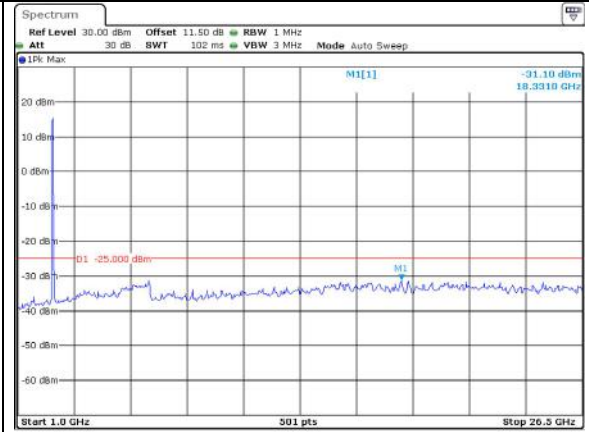
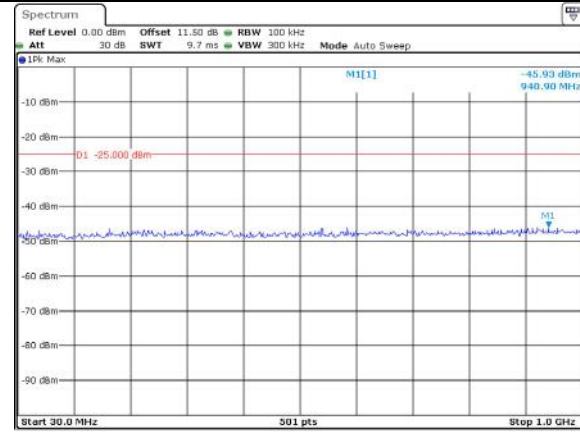
ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 17:34:12

Spurious Emissions at Antenna Terminal

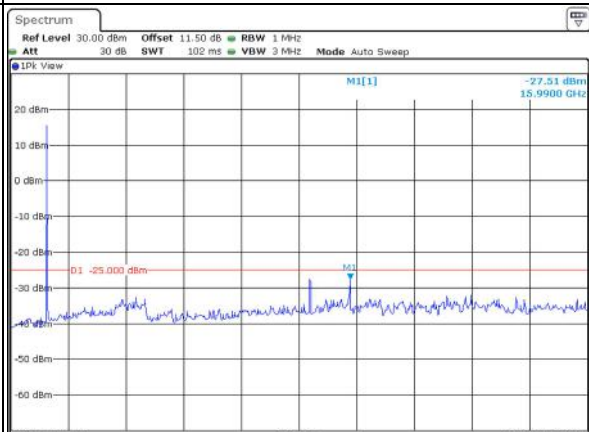
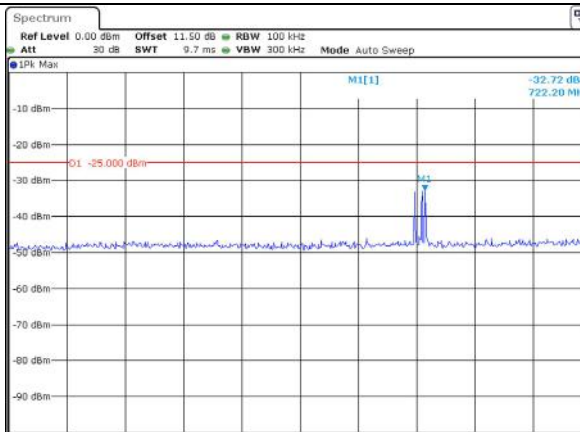
Channel

20MHz Bandwidth QPSK

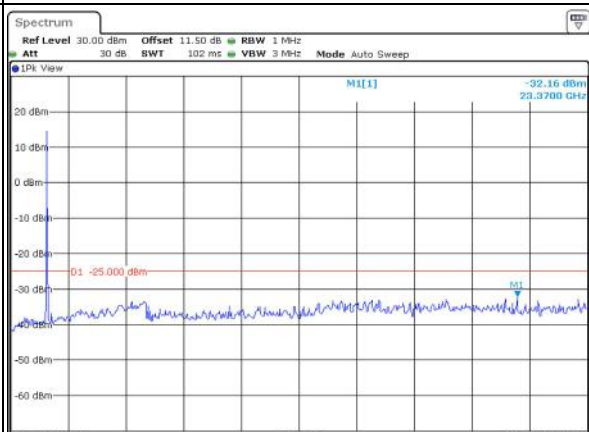
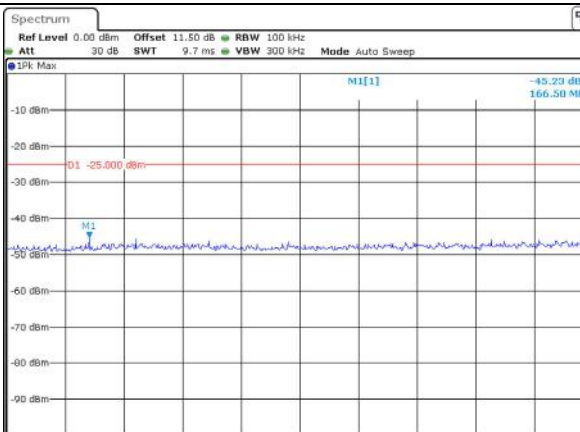
Lowest



Middle



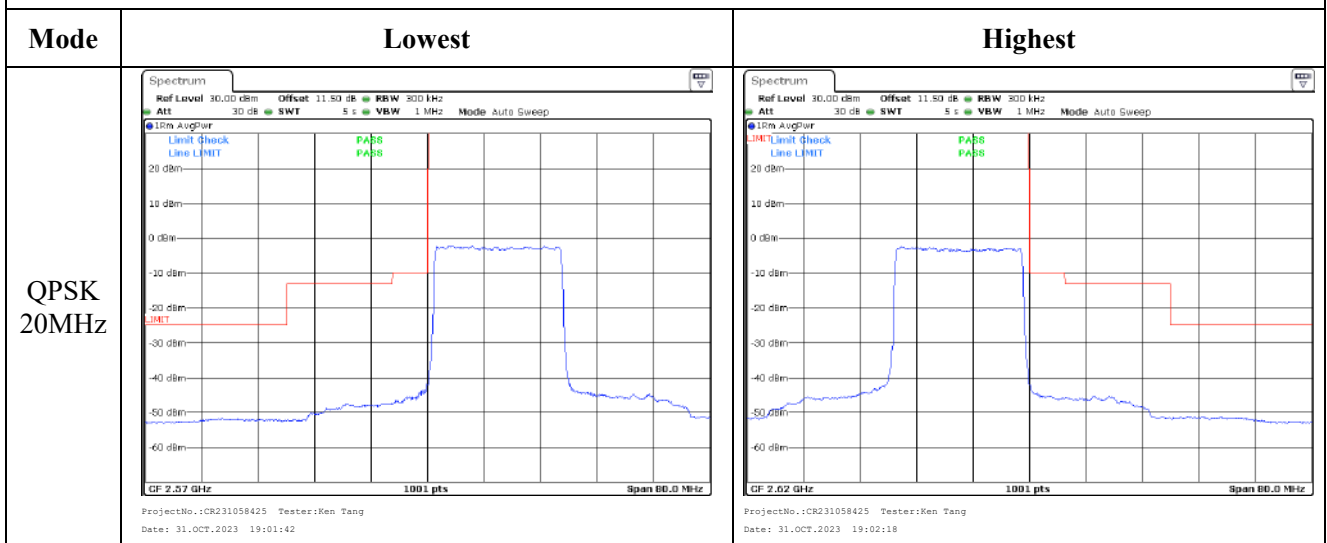
Highest



Out of band emission, Band Edge

| Mode          | Lowest   | Highest  |
|---------------|--|--|
| QPSK<br>5MHz  | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 31.OCT.2023 18:50:24</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 31.OCT.2023 18:50:59</p> |
| QPSK<br>10MHz | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 31.OCT.2023 18:54:46</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 31.OCT.2023 18:55:41</p> |
| QPSK<br>15MHz | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 31.OCT.2023 18:59:00</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 31.OCT.2023 18:59:34</p> |

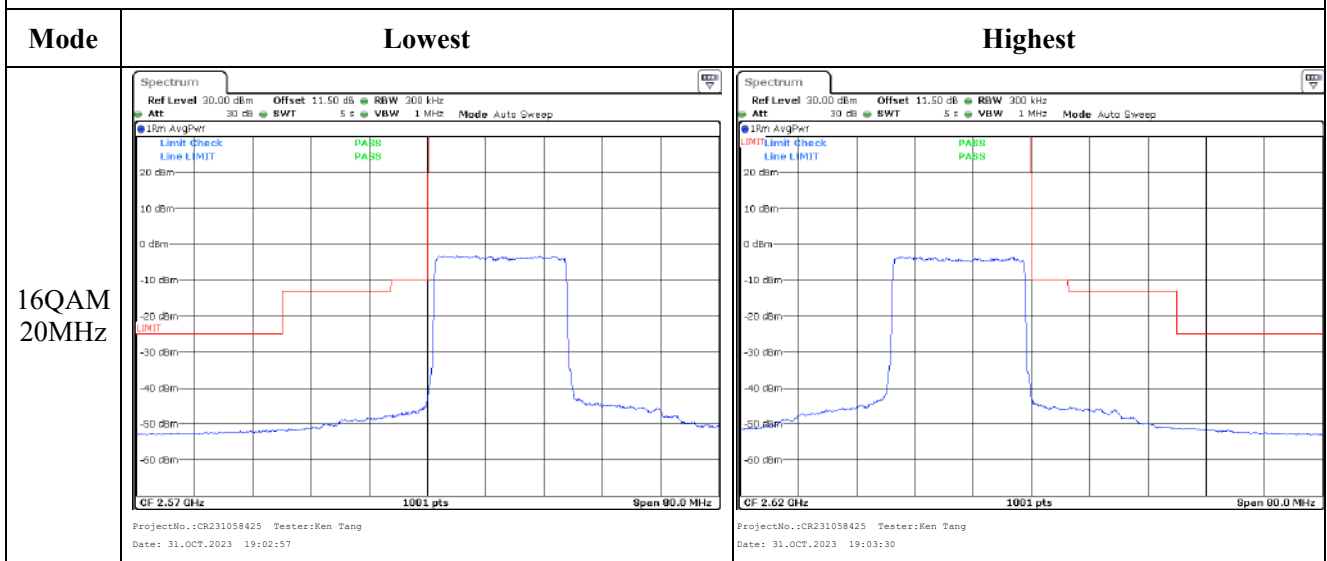
Out of band emission, Band Edge



Out of band emission, Band Edge

| Mode           | Lowest   | Highest  |
|----------------|--|--|
| 16QAM<br>5MHz  | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 31.OCT.2023 18:51:42</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 31.OCT.2023 18:54:00</p> |
| 16QAM<br>10MHz | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 31.OCT.2023 18:56:47</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 31.OCT.2023 18:58:01</p> |
| 16QAM<br>15MHz | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 31.OCT.2023 19:00:10</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 31.OCT.2023 19:00:58</p> |

Out of band emission, Band Edge





**4.16 Antenna Port Test Data and Results for LTE Band 40**

|                |          |              |                      |
|----------------|----------|--------------|----------------------|
| Serial Number: | 2BYR-5   | Test Date:   | 2023/10/29-2023/11/7 |
| Test Site:     | RF       | Test Mode:   | Transmitting         |
| Tester:        | Ken Tang | Test Result: | Pass                 |

**Environmental Conditions:**

|                      |           |                           |       |                        |           |
|----------------------|-----------|---------------------------|-------|------------------------|-----------|
| Temperature:<br>(°C) | 24.5-25.6 | Relative Humidity:<br>(%) | 60-63 | ATM Pressure:<br>(kPa) | 100.5-101 |
|----------------------|-----------|---------------------------|-------|------------------------|-----------|

**Test Equipment List and Details:**

| Manufacturer  | Description                         | Model         | Serial Number   | Calibration Date | Calibration Due Date |
|---------------|-------------------------------------|---------------|-----------------|------------------|----------------------|
| R&S           | Spectrum Analyzer                   | FSV40         | 101943          | 2023/3/31        | 2024/3/30            |
| zhuoxiang     | Coaxial Cable                       | SMA-178       | 211001          | Each time        | N/A                  |
| zhuoxiang     | Coaxial Cable                       | SMA-178       | 211002          | Each time        | N/A                  |
| eastsheep     | Coaxial Attenuator                  | 2W-SMA-JK-18G | 21060301        | Each time        | N/A                  |
| Minl-Circuits | Power Splitter                      | ZFRSC-183-S+  | S F448201619    | Each time        | N/A                  |
| R&S           | Wideband Radio Communication Tester | CMW500        | 143458          | 2023/3/31        | 2024/3/30            |
| BACL          | TEMP&HUMI Test Chamber              | BTH-150-40    | 30174           | 2023/9/28        | 2024/9/27            |
| UNI-T         | Multimeter                          | UT39A+        | C210582554      | 2022/9/29        | 2023/9/28            |
| ZHAOXIN       | DC Power Supply                     | RXN-6010D     | 21R6010D0912386 | N/A              | N/A                  |

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Frequency for Each Mode:**

| Operation Bandwidth | Lowest Frequency (MHz) | Middle Frequency (MHz) | Highest Frequency (MHz) |
|---------------------|------------------------|------------------------|-------------------------|
| 5MHz                | 2307.5                 | /                      | 2312.5                  |
| 10MHz               | /                      | 2310                   | /                       |
| 5MHz                | 2352.5                 | /                      | 2357.5                  |
| 10MHz               | /                      | 2355                   | /                       |

**Test Data:**

(Note:Uplink Downlink configuration 3 was tested)

| <b>FCC§2.1046;§ 27.50(a)(3)</b> |                            |                                     |                |                 |                    |             |
|---------------------------------|----------------------------|-------------------------------------|----------------|-----------------|--------------------|-------------|
| <b>LTE Band 40 Lower:</b>       |                            |                                     |                |                 |                    |             |
| <b>RF Output Power:</b>         |                            |                                     |                |                 |                    |             |
| Test Bandwidth & Modulation     | Resource Block & RB offset | Conducted Average Output Power(dBm) |                |                 | Maximum EIRP (dBm) | Limit (dBm) |
|                                 |                            | Lowest Channel                      | Middle Channel | Highest Channel |                    |             |
| 5MHz QPSK                       | RB1#0                      | 16.25                               | /              | 16.51           | <b>15.83</b>       | 24          |
|                                 | RB1#13                     | 16.38                               | /              | 16.63           |                    |             |
|                                 | RB1#24                     | 16.25                               | /              | 16.47           |                    |             |
|                                 | RB15#0                     | 15.31                               | /              | 15.57           |                    |             |
|                                 | RB15#10                    | 15.28                               | /              | 15.53           |                    |             |
|                                 | RB25#0                     | 15.31                               | /              | 15.54           |                    |             |
| 5MHz 16QAM                      | RB1#0                      | 15.54                               | /              | 15.56           | <b>14.91</b>       | 24          |
|                                 | RB1#13                     | 15.66                               | /              | 15.71           |                    |             |
|                                 | RB1#24                     | 15.50                               | /              | 15.55           |                    |             |
|                                 | RB15#0                     | 14.35                               | /              | 14.63           |                    |             |
|                                 | RB15#10                    | 14.36                               | /              | 14.63           |                    |             |
|                                 | RB25#0                     | 14.33                               | /              | 14.65           |                    |             |
| 10MHz QPSK                      | RB1#0                      | /                                   | 16.43          | /               | 15.76              | 24          |
|                                 | RB1#25                     | /                                   | 16.56          | /               |                    |             |
|                                 | RB1#49                     | /                                   | 16.43          | /               |                    |             |
|                                 | RB25#0                     | /                                   | 15.49          | /               |                    |             |
|                                 | RB25#25                    | /                                   | 15.48          | /               |                    |             |
|                                 | RB50#0                     | /                                   | 15.49          | /               |                    |             |
| 10MHz 16QAM                     | RB1#0                      | /                                   | 15.47          | /               | 14.78              | 24          |
|                                 | RB1#25                     | /                                   | 15.58          | /               |                    |             |
|                                 | RB1#49                     | /                                   | 15.44          | /               |                    |             |
|                                 | RB25#0                     | /                                   | 14.50          | /               |                    |             |
|                                 | RB25#25                    | /                                   | 14.47          | /               |                    |             |
|                                 | RB50#0                     | /                                   | 14.61          | /               |                    |             |

Note:  
For 5MHz mode, the channel power is equal to the test result in dBm/5MHz.  
For 10MHz mode, the channel power is sum of 10MHz bandwidth, the result is less than 24dBm, so in any 5MHz bandwidth, it's will not exceed limit  
EIRP=Conducted Power(dBm) - Lc(dB) + Gt(dBi)  
EIRP PSD=Conducted PSD(dBm/5MHz) - Lc(dB) + Gt(dBi)

| <b>LTE Band 40 Upper:</b>   |                            |                                     |                |                 |                    |                  |
|---|----------------------------|-------------------------------------|----------------|-----------------|--------------------|------------------|
| <b>RF Output Power:</b>   |                            |                                     |                |                 |                    |                  |
| Test Bandwidth & Modulation   | Resource Block & RB offset | Conducted Average Output Power(dBm) |                |                 | Maximum EIRP (dBm) | EIRP Limit (dBm) |
|   |                            | Lowest Channel                      | Middle Channel | Highest Channel |                    |                  |
| 5MHz QPSK   | RB1#0                      | 15.25                               | /              | 15.10           | 14.95              | 24               |
|   | RB1#13                     | 15.65                               | /              | 15.75           |                    |                  |
|   | RB1#24                     | 14.95                               | /              | 15.22           |                    |                  |
|   | RB15#0                     | 14.40                               | /              | 14.35           |                    |                  |
|   | RB15#10                    | 14.27                               | /              | 14.38           |                    |                  |
|   | RB25#0                     | 14.30                               | /              | 14.35           |                    |                  |
| 5MHz 16QAM  | RB1#0                      | 14.21                               | /              | 13.96           | 13.79              | 24               |
|   | RB1#13                     | 14.59                               | /              | 14.58           |                    |                  |
|   | RB1#24                     | 13.91                               | /              | 14.04           |                    |                  |
|   | RB15#0                     | 13.57                               | /              | 13.49           |                    |                  |
|   | RB15#10                    | 13.45                               | /              | 13.52           |                    |                  |
|   | RB25#0                     | 13.50                               | /              | 13.56           |                    |                  |
| 10MHz QPSK  | RB1#0                      | /                                   | 15.40          | /               | 15.06              | 24               |
|   | RB1#25                     | /                                   | 15.86          | /               |                    |                  |
|   | RB1#49                     | /                                   | 15.26          | /               |                    |                  |
|   | RB25#0                     | /                                   | 14.59          | /               |                    |                  |
|   | RB25#25                    | /                                   | 14.55          | /               |                    |                  |
|   | RB50#0                     | /                                   | 14.53          | /               |                    |                  |
| 10MHz 16QAM   | RB1#0                      | /                                   | 14.54          | /               | 14.20              | 24               |
|   | RB1#25                     | /                                   | 15.00          | /               |                    |                  |
|   | RB1#49                     | /                                   | 14.41          | /               |                    |                  |
|   | RB25#0                     | /                                   | 13.58          | /               |                    |                  |
|   | RB25#25                    | /                                   | 13.49          | /               |                    |                  |
|   | RB50#0                     | /                                   | 13.36          | /               |                    |                  |
| Note:<br>For 5MHz mode, the channel power is equal to the test result in dBm/5MHz.<br>For 10MHz mode, the channel power is sum of 10MHz bandwidth, the result is less than 24dBm, so in any 5MHz bandwidth, it's will not exceed limit<br>$EIRP = \text{Conducted Power(dBm)} - Lc(\text{dB}) + Gt(\text{dBi})$<br>$EIRP \text{ PSD} = \text{Conducted PSD(dBm/5MHz)} - Lc(\text{dB}) + Gt(\text{dBi})$ |                            |                                     |                |                 |                    |                  |
|   |                            |                                     |                |                 | <b>Result:</b>     | <b>Pass</b>      |

**Duty Cycle**

| Operation Band    | Modulation | Bandwidth | Ton (ms) | Ton+off (ms) | Duty Cycle (%) | Limit (%)   |
|-------------------|------------|-----------|----------|--------------|----------------|-------------|
| LTE Band 40 Lower | QPSK       | 5M        | 3        | 10           | 30.00          | 38          |
|                   |            | 10M       | 3        | 10           | 30.00          | 38          |
|                   | 16QAM      | 5M        | 3        | 10           | 30.00          | 38          |
|                   |            | 10M       | 3        | 10           | 30.00          | 38          |
| LTE Band 40 Upper | QPSK       | 5M        | 3        | 10           | 30.00          | 38          |
|                   |            | 10M       | 3        | 10           | 30.00          | 38          |
|                   | 16QAM      | 5M        | 3        | 10           | 30.00          | 38          |
|                   |            | 10M       | 3        | 10           | 30.00          | 38          |
|                   |            |           |          |              | <b>Result:</b> | <b>Pass</b> |

**FCC §2.1049, §27.53:Occupied Bandwidth****LTE Band 40 Lower:**

| Operation Mode | 99% Occupied Bandwidth (MHz) |                |              | 26 dB Occupied Bandwidth (MHz) |                |              |
|----------------|------------------------------|----------------|--------------|--------------------------------|----------------|--------------|
|                | Low Channel                  | Middle channel | High Channel | Low Channel                    | Middle channel | High Channel |
| 5MHz QPSK      | 4.511                        | /              | 4.511        | 5.080                          | /              | 5.060        |
| 5MHz 16QAM     | 4.511                        | /              | 4.511        | 5.100                          | /              | 5.180        |
| 10MHz QPSK     | /                            | 8.942          | /            | /                              | 9.720          | /            |
| 10MHz 16QAM    | /                            | 8.942          | /            | /                              | 9.760          | /            |

**LTE Band 40 Upper:**

| Operation Mode | 99% Occupied Bandwidth (MHz) |                |              | 26 dB Occupied Bandwidth (MHz) |                |              |
|----------------|------------------------------|----------------|--------------|--------------------------------|----------------|--------------|
|                | Low Channel                  | Middle channel | High Channel | Low Channel                    | Middle channel | High Channel |
| 5MHz QPSK      | 4.511                        | /              | 4.511        | 5.120                          | /              | 5.100        |
| 5MHz 16QAM     | 4.511                        | /              | 4.511        | 5.120                          | /              | 4.980        |
| 10MHz QPSK     | /                            | 8.942          | /            | /                              | 9.840          | /            |
| 10MHz 16QAM    | /                            | 8.942          | /            | /                              | 9.800          | /            |

Note: The test plots please refer to the Plots of Occupied Bandwidth

**FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal****Result:** Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**FCC §2.1051, § 27.53:Out of band emission, Band Edge****Result:** Pass, Please refer to the test plots of Out of band emission, Band Edge.

**FCC §2.1055, §27.54: Frequency Stability****LTE Band 40 Lower:**

| Test Mode:                          | 10M QPSK         | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                  |          |                  |          |
|-------------------------------------|------------------|--|------------------|----------|------------------|----------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                 | Lower Edge (MHz) |          | Upper Edge (MHz) |          |
|                                     |                  |  | Result           | Limit    | Result           | Limit    |
| Frequency Stability vs. Temperature | -30              | 3.85   | 2305.022         | 2305.000 | 2314.983         | 2315.000 |
|                                     | -20              | 3.85   | 2305.009         | 2305.000 | 2314.975         | 2315.000 |
|                                     | -10              | 3.85   | 2305.024         | 2305.000 | 2314.982         | 2315.000 |
|                                     | 0                | 3.85   | 2305.006         | 2305.000 | 2314.970         | 2315.000 |
|                                     | 10               | 3.85   | 2305.029         | 2305.000 | 2314.987         | 2315.000 |
|                                     | 20               | 3.85   | 2305.028         | 2305.000 | 2314.979         | 2315.000 |
|                                     | 30               | 3.85   | 2305.015         | 2305.000 | 2314.985         | 2315.000 |
|                                     | 40               | 3.85   | 2305.002         | 2305.000 | 2314.998         | 2315.000 |
| Frequency Stability vs. Voltage     | 50               | 3.85   | 2305.023         | 2305.000 | 2314.990         | 2315.000 |
|                                     | 20               | 3.35   | 2305.018         | 2305.000 | 2314.997         | 2315.000 |
|                                     | 20               | 4.4  | 2305.016         | 2305.000 | 2314.974         | 2315.000 |
| <b>Result:</b>                      |                  |  |                  |          | <b>Pass</b>      |          |

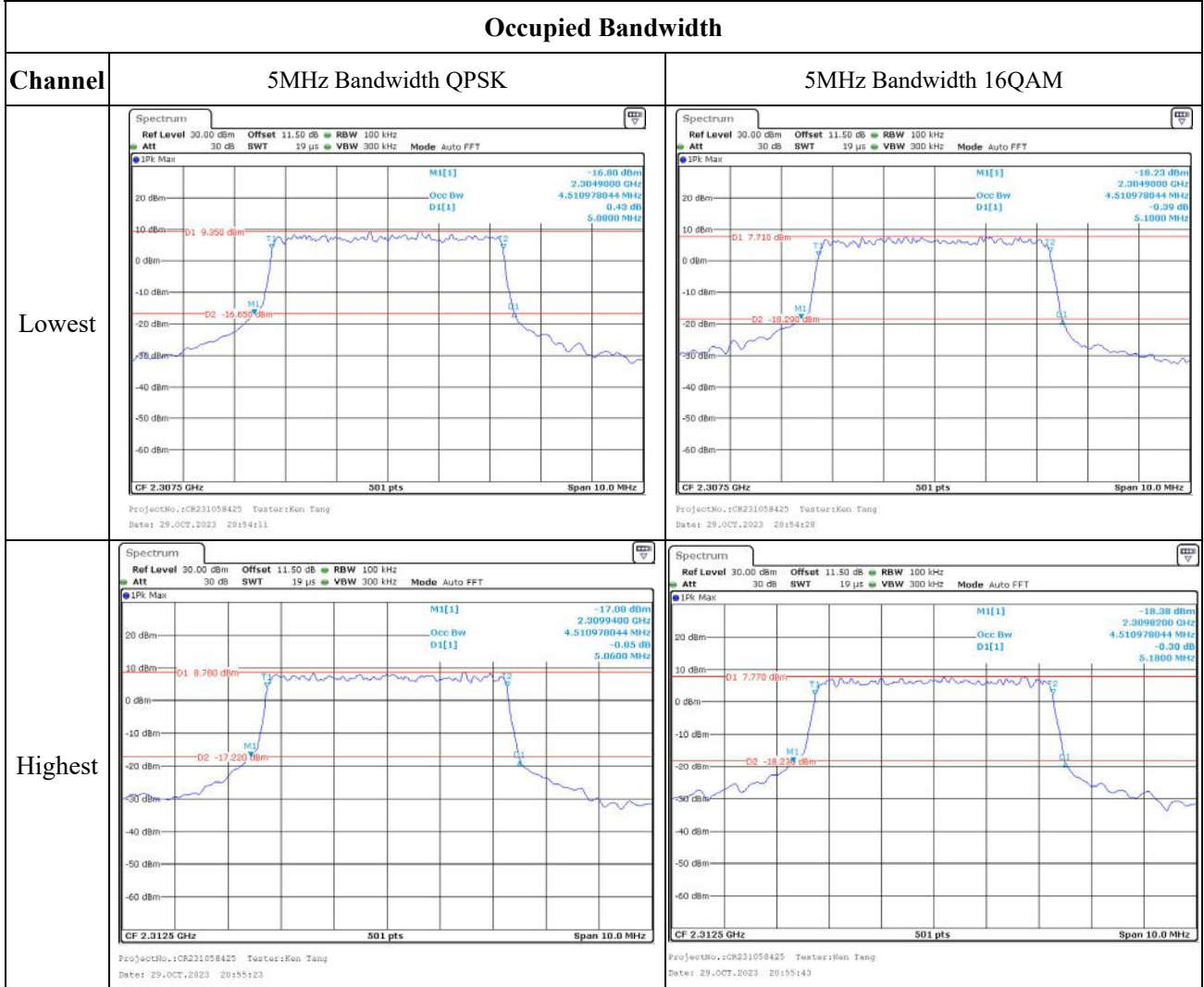
| Test Mode:                          | 10M 16QAM        | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                  |          |                  |          |
|-------------------------------------|------------------|--|------------------|----------|------------------|----------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                 | Lower Edge (MHz) |          | Upper Edge (MHz) |          |
|                                     |                  |  | Result           | Limit    | Result           | Limit    |
| Frequency Stability vs. Temperature | -30              | 3.85   | 2305.029         | 2305.000 | 2314.984         | 2315.000 |
|                                     | -20              | 3.85   | 2305.009         | 2305.000 | 2314.996         | 2315.000 |
|                                     | -10              | 3.85   | 2305.011         | 2305.000 | 2314.990         | 2315.000 |
|                                     | 0                | 3.85   | 2305.013         | 2305.000 | 2314.972         | 2315.000 |
|                                     | 10               | 3.85   | 2305.002         | 2305.000 | 2314.999         | 2315.000 |
|                                     | 20               | 3.85   | 2305.029         | 2305.000 | 2314.986         | 2315.000 |
|                                     | 30               | 3.85   | 2305.016         | 2305.000 | 2314.981         | 2315.000 |
|                                     | 40               | 3.85   | 2305.028         | 2305.000 | 2314.989         | 2315.000 |
| Frequency Stability vs. Voltage     | 50               | 3.85   | 2305.006         | 2305.000 | 2314.976         | 2315.000 |
|                                     | 20               | 3.35   | 2305.002         | 2305.000 | 2314.978         | 2315.000 |
|                                     | 20               | 4.4  | 2305.007         | 2305.000 | 2314.986         | 2315.000 |
| <b>Result:</b>                      |                  |  |                  |          | <b>Pass</b>      |          |

| <b>LTE Band 40 Upper:</b>           |                  |  |                  |          |                  |             |
|-------------------------------------|------------------|--|------------------|----------|------------------|-------------|
| Test Mode:                          | 10M QPSK         | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                  |          |                  |             |
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                 | Lower Edge (MHz) |          | Upper Edge (MHz) |             |
|                                     |                  |  | Result           | Limit    | Result           | Limit       |
| Frequency Stability vs. Temperature | -30              | 3.85   | 2350.017         | 2350.000 | 2359.974         | 2360.000    |
|                                     | -20              | 3.85   | 2350.023         | 2350.000 | 2359.984         | 2360.000    |
|                                     | -10              | 3.85   | 2350.020         | 2350.000 | 2359.975         | 2360.000    |
|                                     | 0                | 3.85   | 2350.006         | 2350.000 | 2359.974         | 2360.000    |
|                                     | 10               | 3.85   | 2350.008         | 2350.000 | 2359.976         | 2360.000    |
|                                     | 20               | 3.85   | 2350.020         | 2350.000 | 2359.992         | 2360.000    |
|                                     | 30               | 3.85   | 2350.007         | 2350.000 | 2359.975         | 2360.000    |
|                                     | 40               | 3.85   | 2350.005         | 2350.000 | 2359.991         | 2360.000    |
| Frequency Stability vs. Voltage     | 20               | 3.35   | 2350.029         | 2350.000 | 2359.993         | 2360.000    |
|                                     | 20               | 4.4  | 2350.019         | 2350.000 | 2359.976         | 2360.000    |
|                                     |                  |  |                  |          | <b>Result:</b>   | <b>Pass</b> |

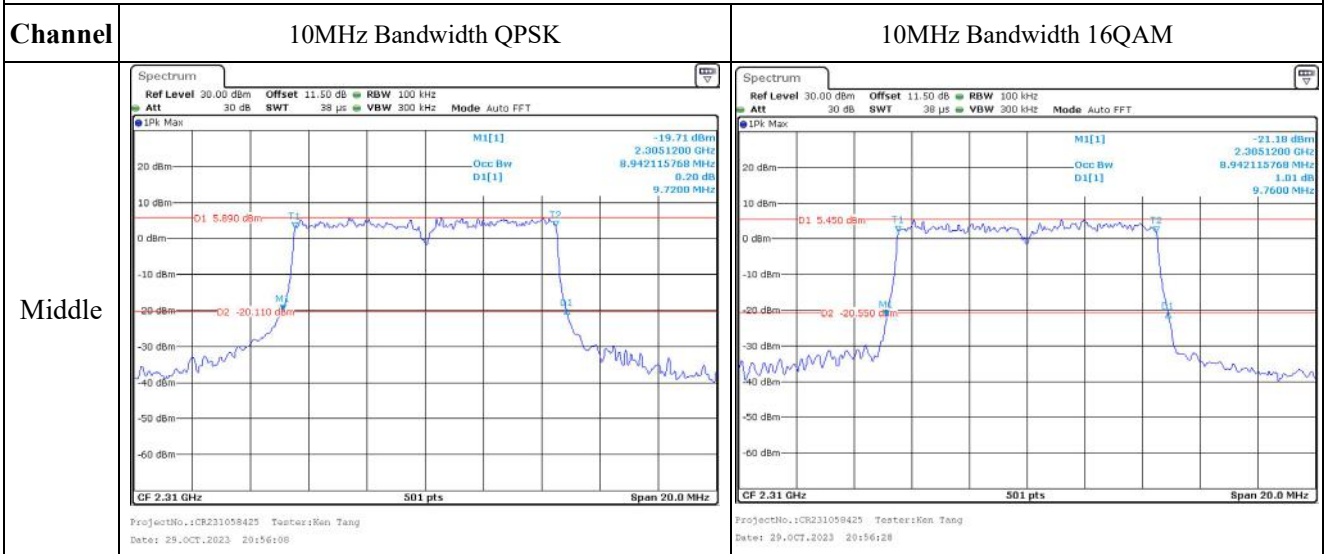
| Test Mode:                          | 10M 16QAM        | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                  |          |                  |             |
|-------------------------------------|------------------|--|------------------|----------|------------------|-------------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                 | Lower Edge (MHz) |          | Upper Edge (MHz) |             |
|                                     |                  |  | Result           | Limit    | Result           | Limit       |
| Frequency Stability vs. Temperature | -30              | 3.85   | 2350.002         | 2350.000 | 2359.986         | 2360.000    |
|                                     | -20              | 3.85   | 2350.009         | 2350.000 | 2359.986         | 2360.000    |
|                                     | -10              | 3.85   | 2350.001         | 2350.000 | 2359.994         | 2360.000    |
|                                     | 0                | 3.85   | 2350.029         | 2350.000 | 2359.981         | 2360.000    |
|                                     | 10               | 3.85   | 2350.025         | 2350.000 | 2359.991         | 2360.000    |
|                                     | 20               | 3.85   | 2350.008         | 2350.000 | 2359.992         | 2360.000    |
|                                     | 30               | 3.85   | 2350.007         | 2350.000 | 2359.982         | 2360.000    |
|                                     | 40               | 3.85   | 2350.002         | 2350.000 | 2359.972         | 2360.000    |
| Frequency Stability vs. Voltage     | 20               | 3.35   | 2350.026         | 2350.000 | 2359.992         | 2360.000    |
|                                     | 20               | 4.4  | 2350.003         | 2350.000 | 2359.972         | 2360.000    |
|                                     |                  |  |                  |          | <b>Result:</b>   | <b>Pass</b> |

**Test Plots** (Note: The 11.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

**LTE Band 40 Lower:**



Occupied Bandwidth



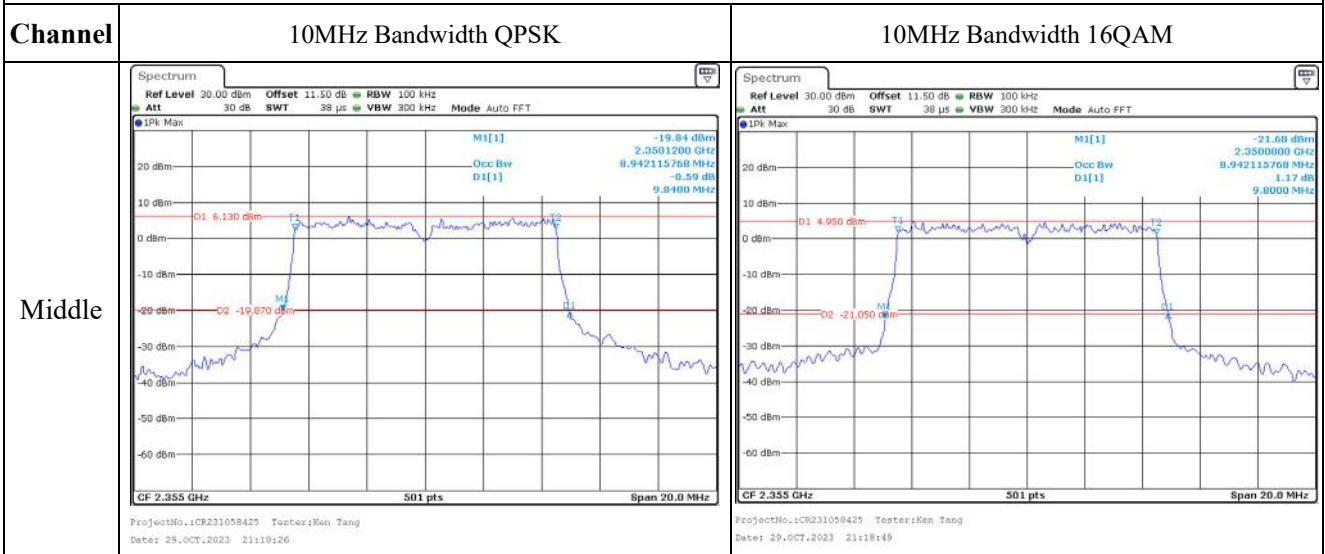


LTE Band 40 Upper:

Occupied Bandwidth

| Channel | 5MHz Bandwidth QPSK  | 5MHz Bandwidth 16QAM   |
|---------|--|--|
| Lowest  | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 21:16:37</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 21:16:57</p> |
| Highest | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 21:17:46</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 21:18:03</p> |

**Occupied Bandwidth**



LTE Band 40 Lower:

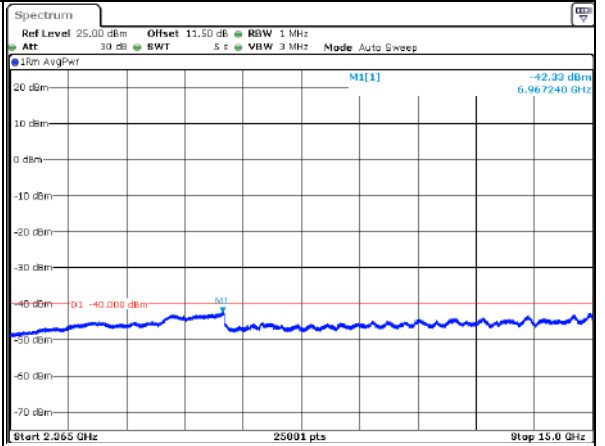
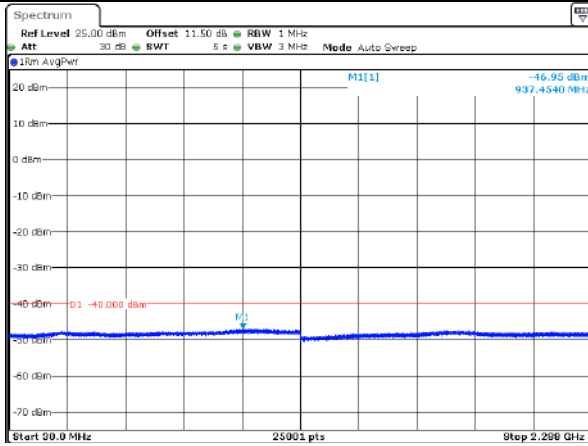
Spurious Emissions at Antenna Terminal

| Channel | 5MHz Bandwidth QPSK  |  |
|---------|--|--|
| Lowest  | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 30.OCT.2023 00:22:57</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 30.OCT.2023 00:23:19</p> |
|         | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 30.OCT.2023 00:23:39</p> |  |

Spurious Emissions at Antenna Terminal

Channel

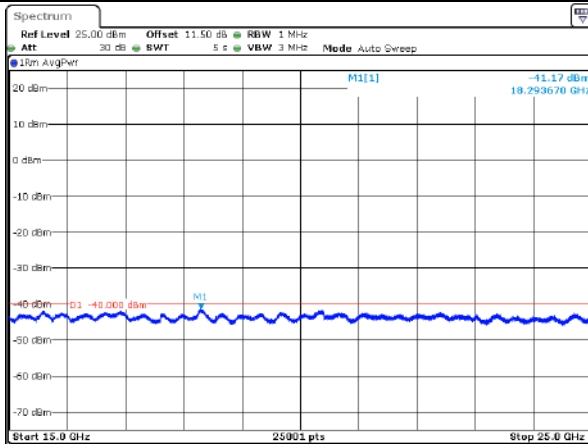
5MHz Bandwidth QPSK



ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 30.OCT.2023 00:25:06

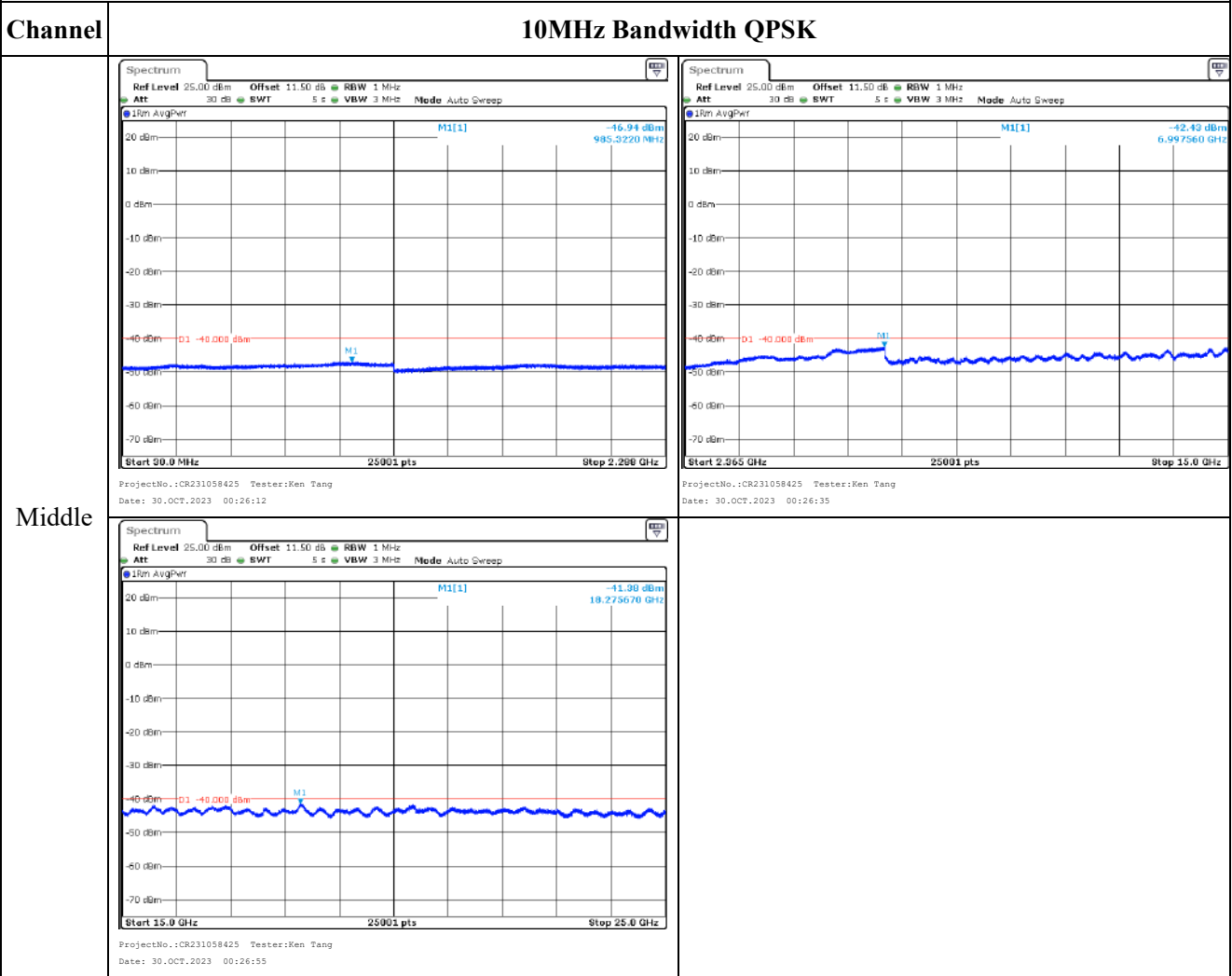
ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 30.OCT.2023 00:25:29

Highest



ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 30.OCT.2023 00:25:49

Spurious Emissions at Antenna Terminal



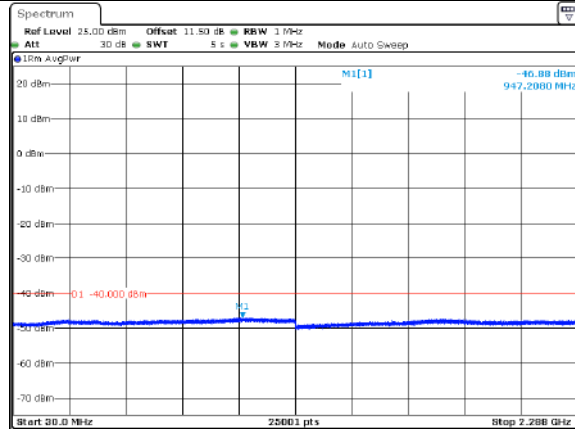
**LTE Band 40 Upper:**

**Spurious Emissions at Antenna Terminal**

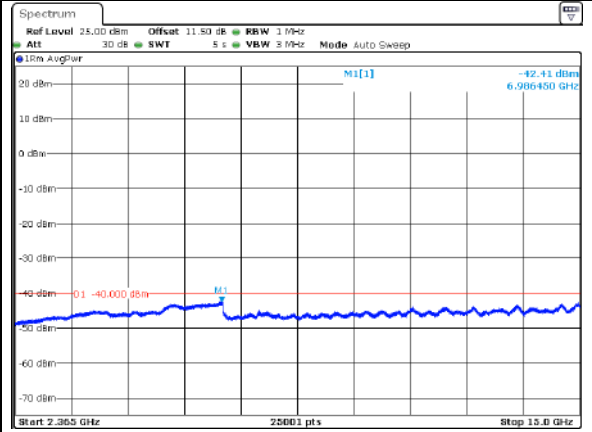
**Channel**

**5MHz Bandwidth QPSK**

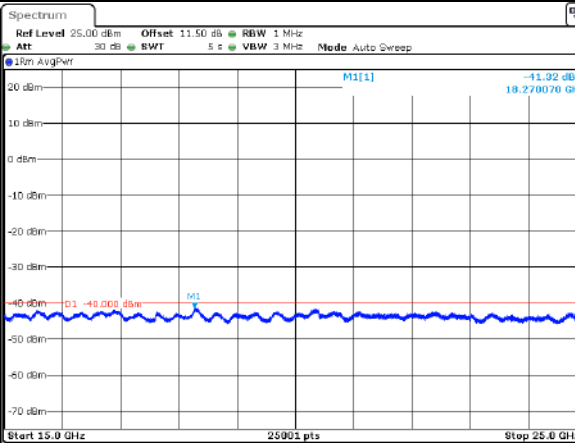
**Lowest**



ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 30.OCT.2023 00:35:10



ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 30.OCT.2023 00:35:30

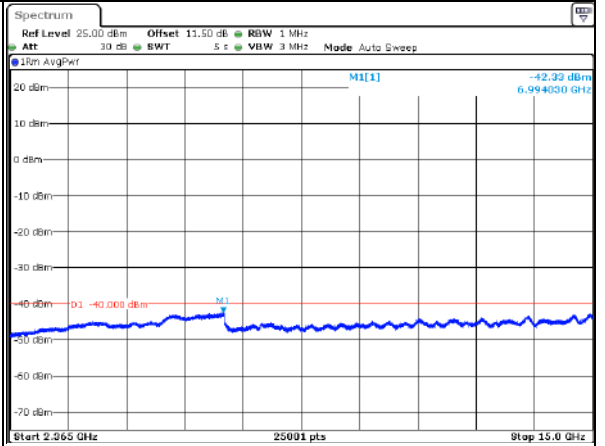
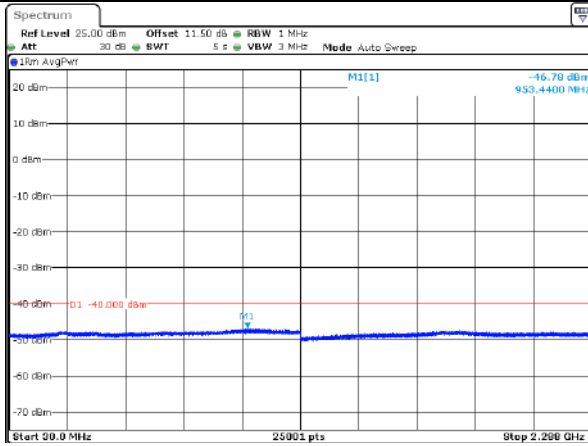


ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 30.OCT.2023 00:35:51

Spurious Emissions at Antenna Terminal

Channel

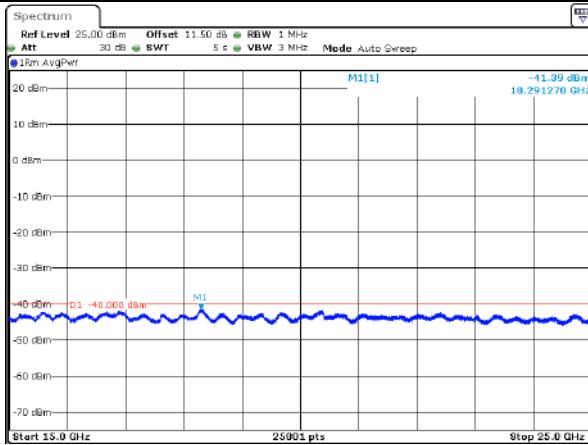
5MHz Bandwidth QPSK



ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 30.OCT.2023 00:37:18

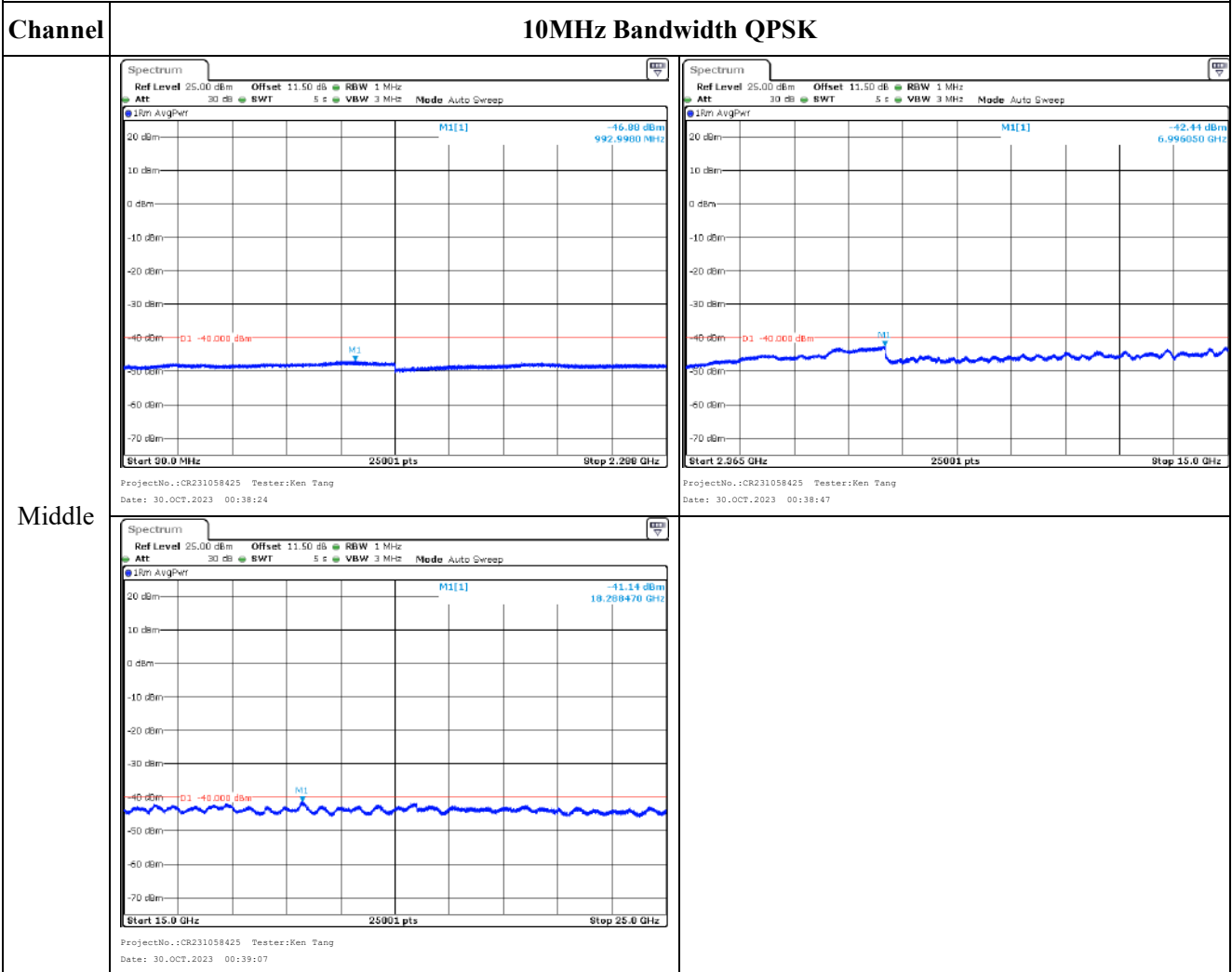
ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 30.OCT.2023 00:37:41

Highest



ProjectNo.:CR231058425 Tester:Ken Tang  
Date: 30.OCT.2023 00:38:01

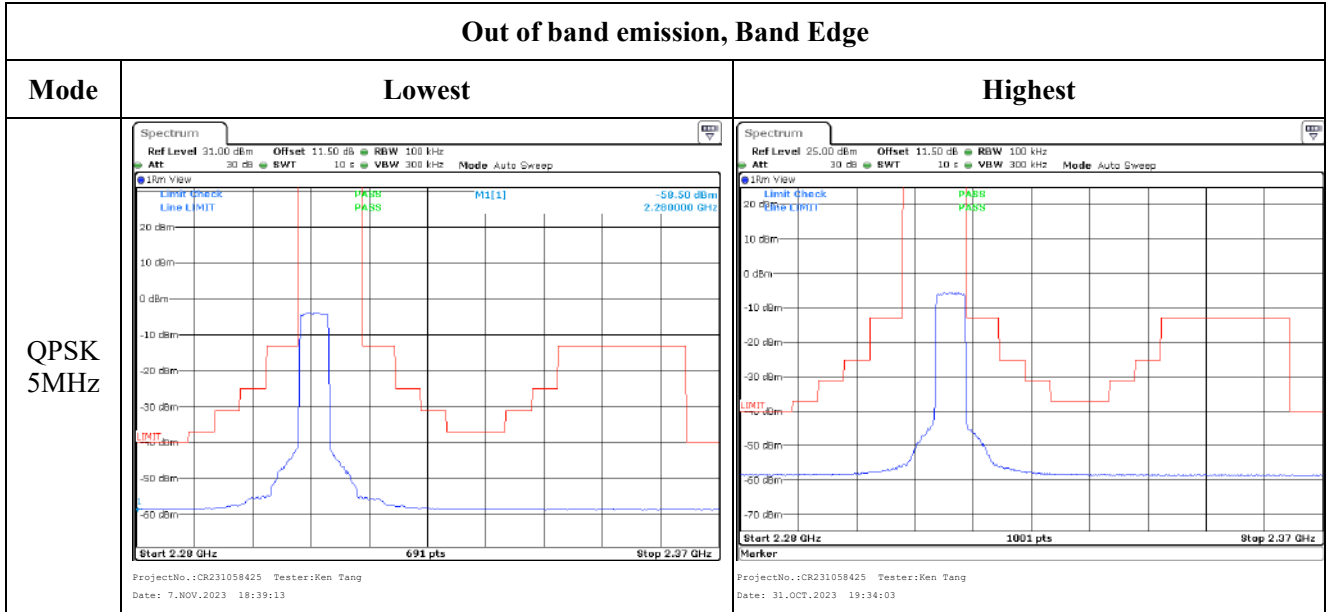
**Spurious Emissions at Antenna Terminal**



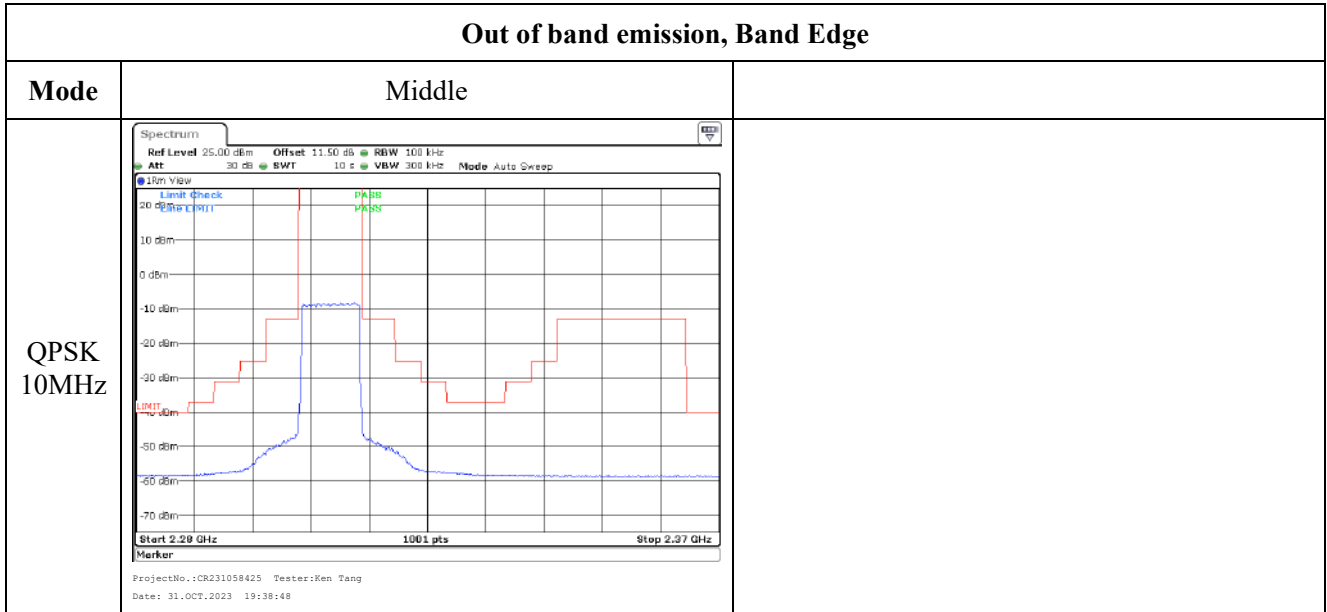


LTE Band 40 Lower:

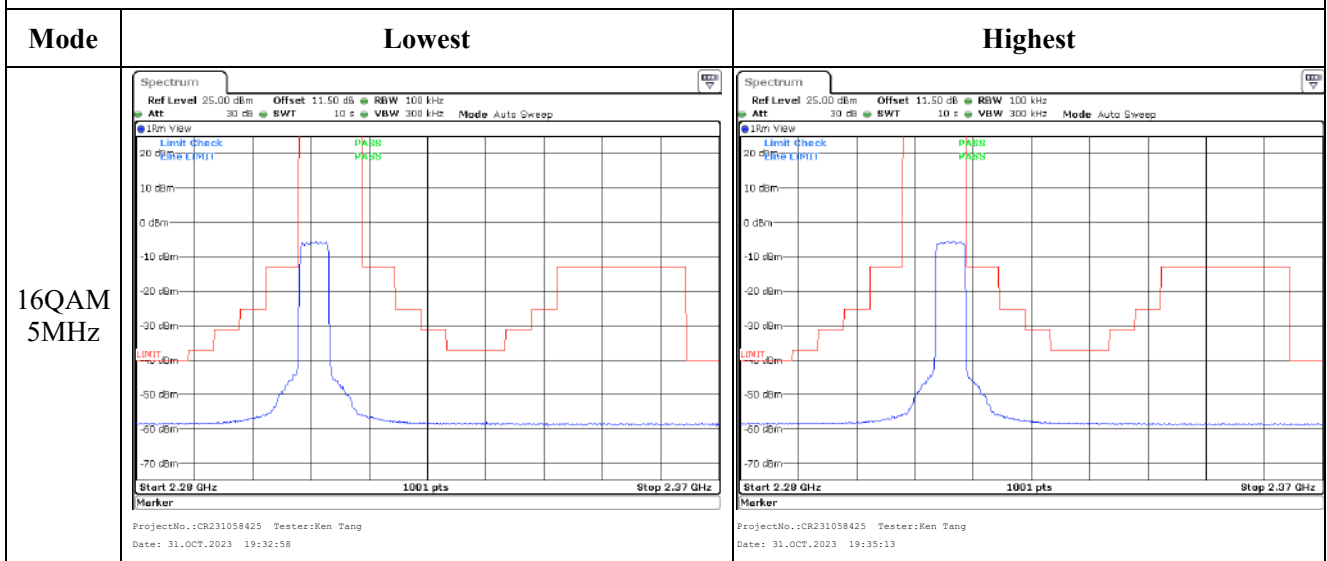
Out of band emission, Band Edge



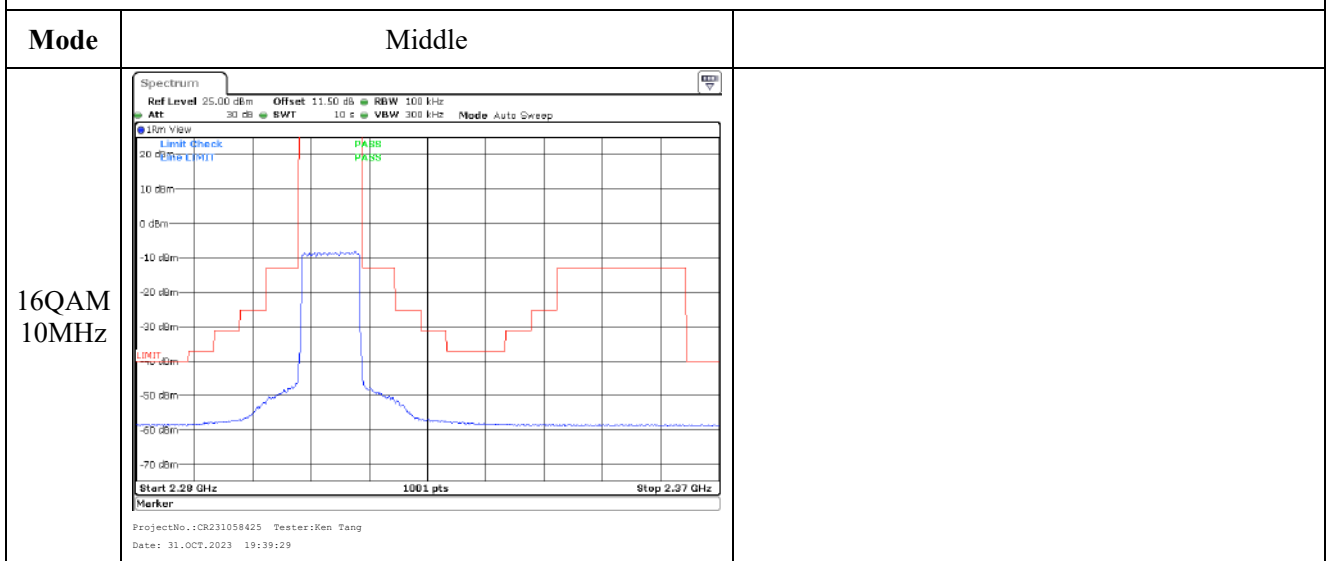
Out of band emission, Band Edge



Out of band emission, Band Edge

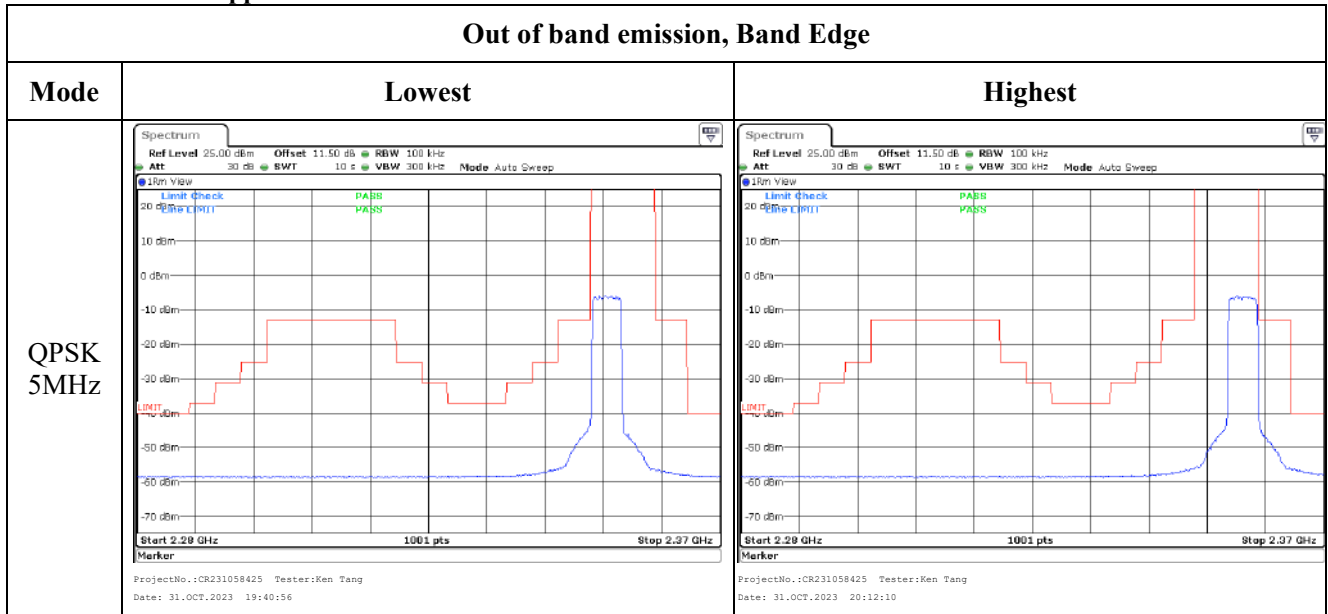


Out of band emission, Band Edge

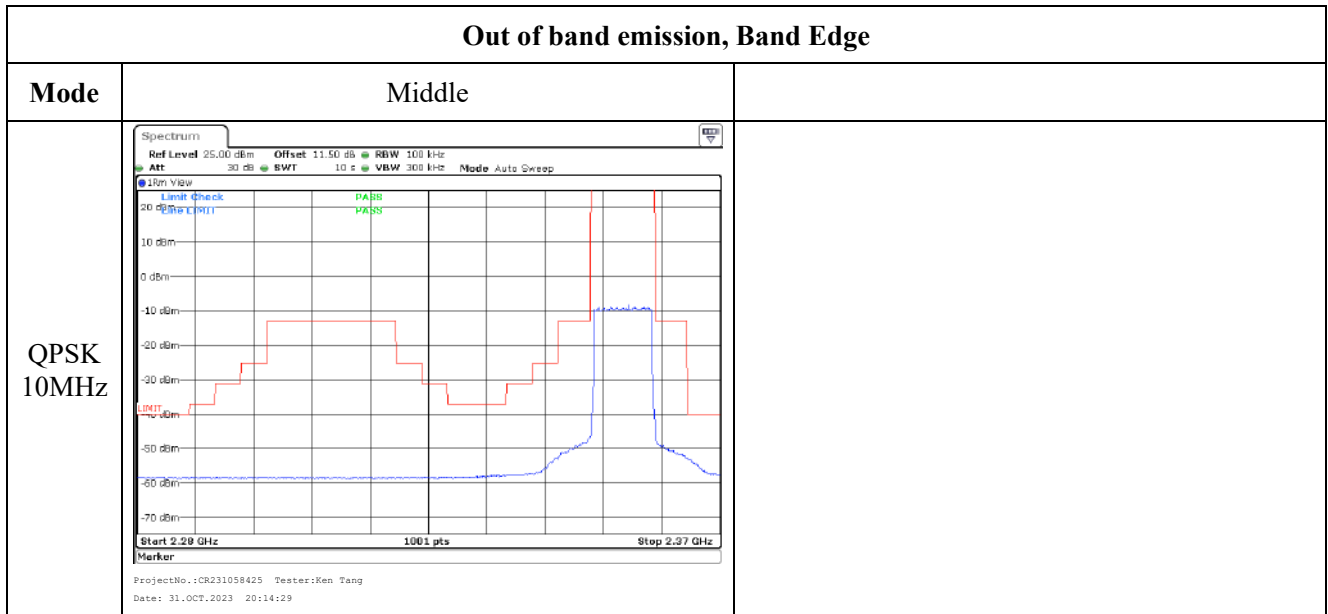


LTE Band 40 Upper:

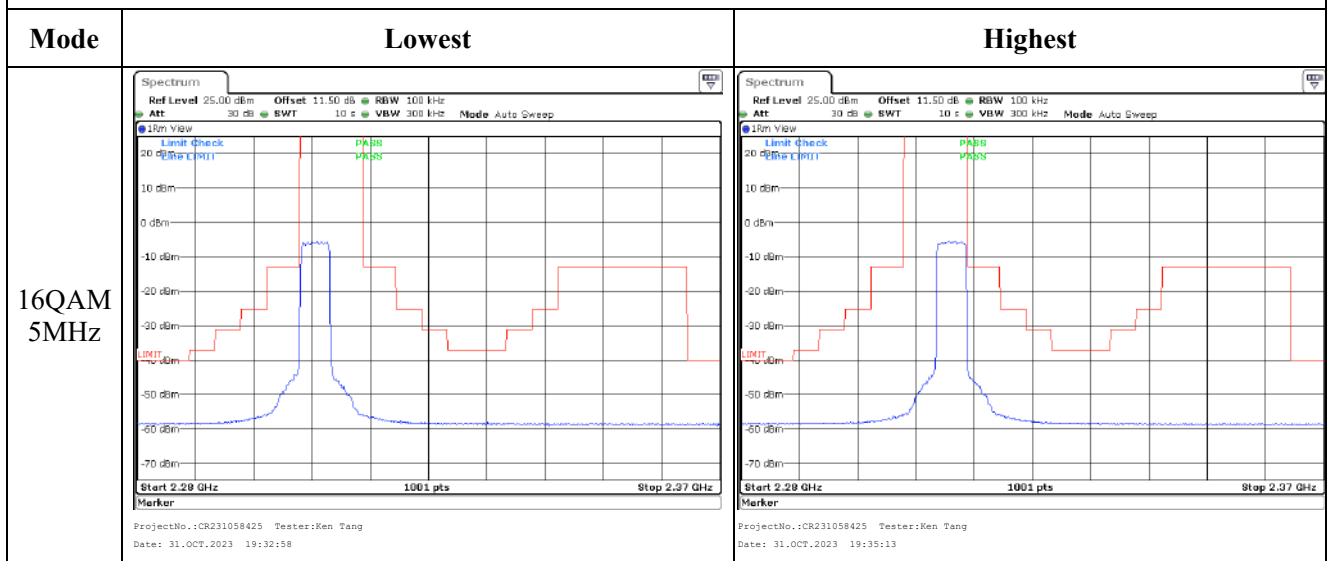
Out of band emission, Band Edge



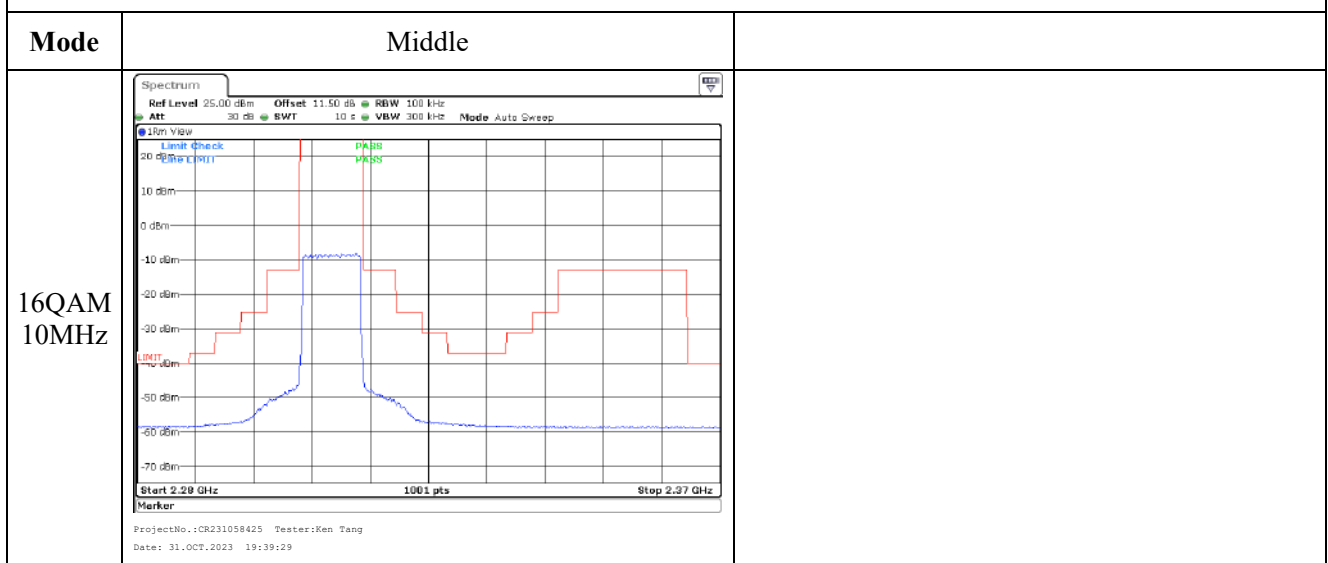
Out of band emission, Band Edge



Out of band emission, Band Edge

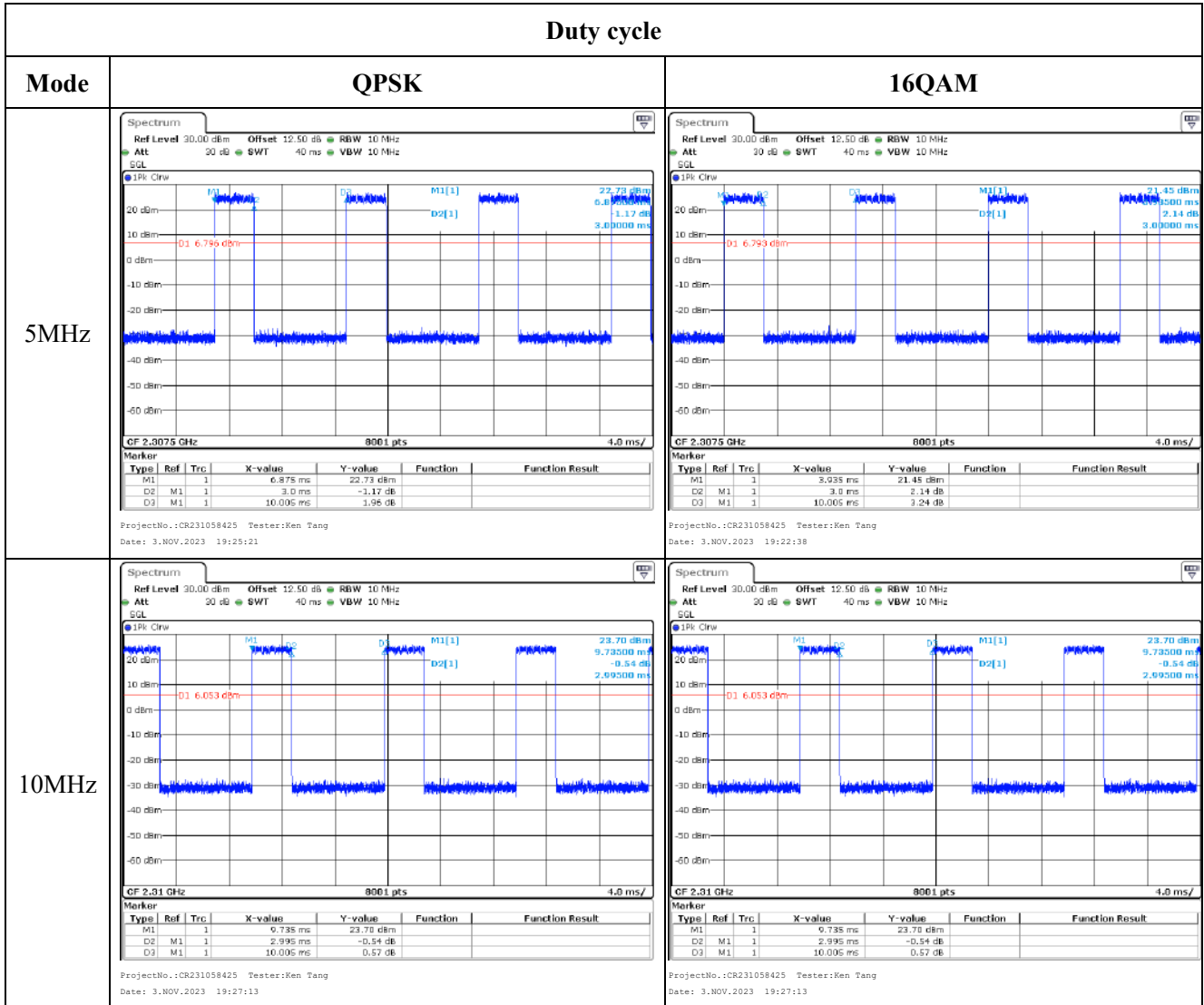


Out of band emission, Band Edge



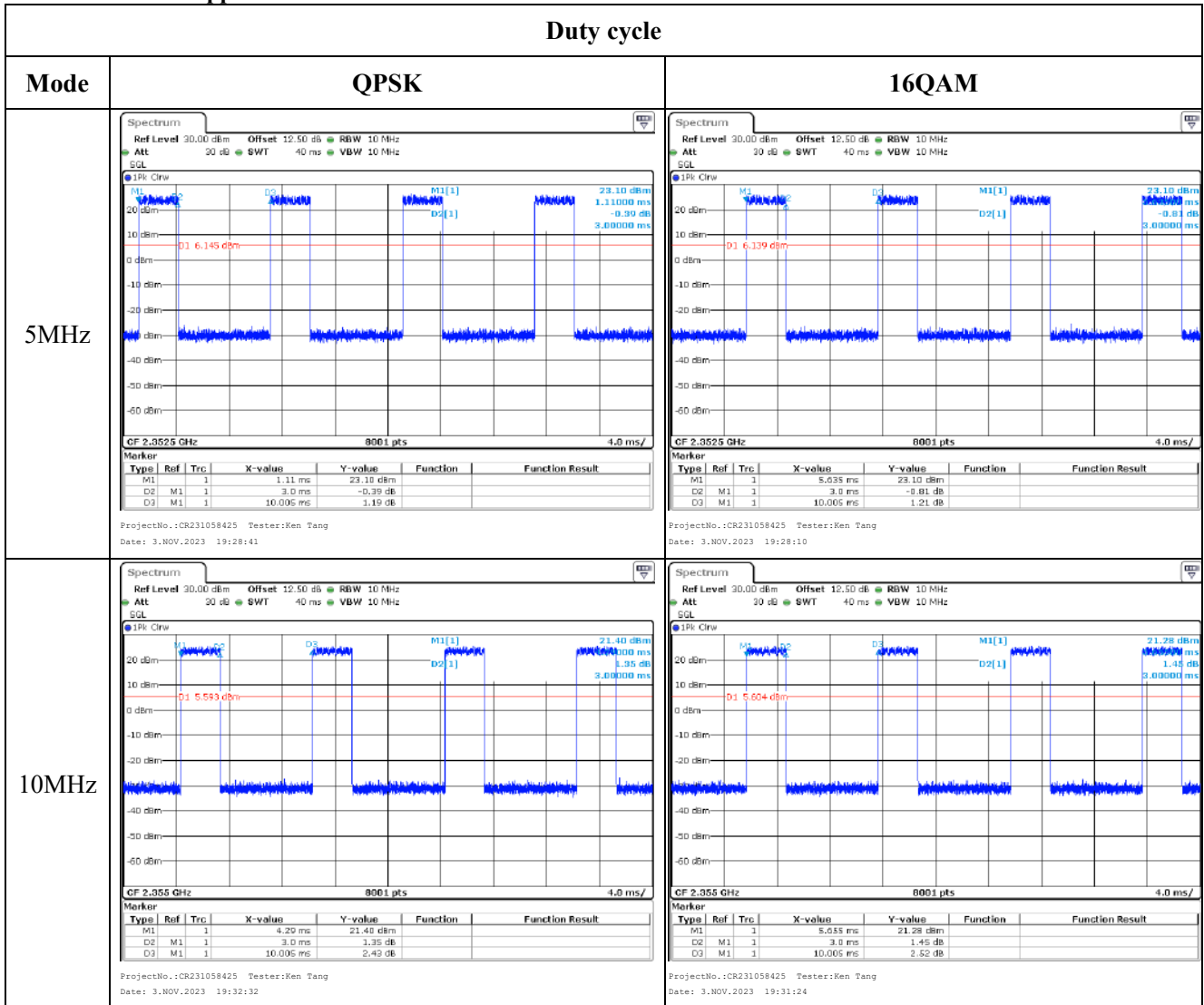
LTE Band 40 Lower:

Duty cycle



LTE Band 40 Upper:

Duty cycle



**4.17 Antenna Port Test Data and Results for LTE Band 41**

|                |          |              |                       |
|----------------|----------|--------------|-----------------------|
| Serial Number: | 2BYR-5   | Test Date:   | 2023/10/29-2023/10/31 |
| Test Site:     | RF       | Test Mode:   | Transmitting          |
| Tester:        | Ken Tang | Test Result: | Pass                  |

**Environmental Conditions:**

|                      |           |                           |       |                        |             |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|
| Temperature:<br>(°C) | 24.5-25.3 | Relative Humidity:<br>(%) | 60-62 | ATM Pressure:<br>(kPa) | 100.5-100.9 |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|

**Test Equipment List and Details:**

| Manufacturer  | Description                         | Model         | Serial Number   | Calibration Date | Calibration Due Date |
|---------------|-------------------------------------|---------------|-----------------|------------------|----------------------|
| R&S           | Spectrum Analyzer                   | FSV40         | 101943          | 2023/3/31        | 2024/3/30            |
| zhuoxiang     | Coaxial Cable                       | SMA-178       | 211001          | Each time        | N/A                  |
| zhuoxiang     | Coaxial Cable                       | SMA-178       | 211002          | Each time        | N/A                  |
| eastsheep     | Coaxial Attenuator                  | 2W-SMA-JK-18G | 21060301        | Each time        | N/A                  |
| Minl-Circuits | Power Splitter                      | ZFRSC-183-S+  | S F448201619    | Each time        | N/A                  |
| R&S           | Wideband Radio Communication Tester | CMW500        | 143458          | 2023/3/31        | 2024/3/30            |
| BACL          | TEMP&HUMI Test Chamber              | BTH-150-40    | 30174           | 2023/3/31        | 2024/3/30            |
| UNI-T         | Multimeter                          | UT39A+        | C210582554      | 2023/9/28        | 2024/9/27            |
| ZHAOXIN       | DC Power Supply                     | RXN-6010D     | 21R6010D0912386 | N/A              | N/A                  |

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Frequency for Each Mode:**

| Operation Bandwidth | Lowest Frequency (MHz) | Middle Frequency (MHz) | Highest Frequency (MHz) |
|---------------------|------------------------|------------------------|-------------------------|
| 5MHz                | 2537.5                 | 2595                   | 2652.5                  |
| 10MHz               | 2540                   | 2595                   | 2650                    |
| 15MHz               | 2542.5                 | 2595                   | 2647.5                  |
| 20MHz               | 2545                   | 2595                   | 2645                    |

**Test Data:**

| <b>FCC§2.1046;§ 27.50(h)(2)</b> |                            |                                     |                |                 |                    |                  |
|---------------------------------|----------------------------|-------------------------------------|----------------|-----------------|--------------------|------------------|
| <b>RF Output Power:</b>         |                            |                                     |                |                 |                    |                  |
| Test Bandwidth & Modulation     | Resource Block & RB offset | Conducted Average Output Power(dBm) |                |                 | Maximum EIRP (dBm) | EIRP Limit (dBm) |
|                                 |                            | Lowest Channel                      | Middle Channel | Highest Channel |                    |                  |
| 5MHz QPSK                       | RB1#0                      | 21.40                               | 21.50          | 21.46           | 21.43              | 33               |
|                                 | RB1#13                     | 21.45                               | 21.62          | 21.46           |                    |                  |
|                                 | RB1#24                     | 21.29                               | 21.63          | 21.52           |                    |                  |
|                                 | RB15#0                     | 20.05                               | 19.91          | 19.94           |                    |                  |
|                                 | RB15#10                    | 19.99                               | 19.93          | 19.80           |                    |                  |
|                                 | RB25#0                     | 19.97                               | 19.88          | 19.85           |                    |                  |
| 5MHz 16QAM                      | RB1#0                      | 21.12                               | 20.77          | 20.06           | 20.92              | 33               |
|                                 | RB1#13                     | 21.07                               | 20.86          | 20.10           |                    |                  |
|                                 | RB1#24                     | 21.05                               | 21.03          | 20.07           |                    |                  |
|                                 | RB15#0                     | 18.93                               | 18.81          | 18.87           |                    |                  |
|                                 | RB15#10                    | 18.98                               | 18.95          | 18.85           |                    |                  |
|                                 | RB25#0                     | 19.11                               | 19.01          | 18.97           |                    |                  |
| 10MHz QPSK                      | RB1#0                      | 21.65                               | 21.52          | 21.72           | 21.54              | 33               |
|                                 | RB1#25                     | 21.60                               | 21.65          | 21.66           |                    |                  |
|                                 | RB1#49                     | 21.62                               | 21.74          | 21.74           |                    |                  |
|                                 | RB25#0                     | 19.92                               | 19.99          | 19.88           |                    |                  |
|                                 | RB25#25                    | 19.86                               | 20.00          | 19.85           |                    |                  |
|                                 | RB50#0                     | 19.52                               | 19.59          | 19.58           |                    |                  |
| 10MHz 16QAM                     | RB1#0                      | 20.87                               | 20.51          | 20.59           | 20.71              | 33               |
|                                 | RB1#25                     | 20.62                               | 20.58          | 20.54           |                    |                  |
|                                 | RB1#49                     | 20.91                               | 20.57          | 20.67           |                    |                  |
|                                 | RB25#0                     | 19.18                               | 19.34          | 18.99           |                    |                  |
|                                 | RB25#25                    | 19.00                               | 19.30          | 18.88           |                    |                  |
|                                 | RB50#0                     | 18.77                               | 18.71          | 18.61           |                    |                  |
| 15MHz QPSK                      | RB1#0                      | 21.48                               | 21.70          | 21.78           | 21.67              | 33               |
|                                 | RB1#38                     | 21.20                               | 21.79          | 21.77           |                    |                  |
|                                 | RB1#74                     | 21.13                               | 21.87          | 21.84           |                    |                  |
|                                 | RB36#0                     | 19.93                               | 20.04          | 19.84           |                    |                  |
|                                 | RB36#39                    | 19.75                               | 20.12          | 19.97           |                    |                  |
|                                 | RB75#0                     | 19.51                               | 19.69          | 19.55           |                    |                  |
| 15MHz 16QAM                     | RB1#0                      | 20.72                               | 20.60          | 21.32           | 21.12              | 33               |
|                                 | RB1#38                     | 20.58                               | 20.78          | 20.85           |                    |                  |
|                                 | RB1#74                     | 20.45                               | 20.82          | 21.01           |                    |                  |
|                                 | RB36#0                     | 18.99                               | 19.16          | 18.91           |                    |                  |
|                                 | RB36#39                    | 18.92                               | 19.24          | 18.89           |                    |                  |
|                                 | RB75#0                     | 18.61                               | 18.72          | 18.71           |                    |                  |



|             |         |       |       |       |       |    |
|-------------|---------|-------|-------|-------|-------|----|
| 20MHz QPSK  | RB1#0   | 21.85 | 21.55 | 21.54 | 21.65 | 33 |
|             | RB1#50  | 21.73 | 21.59 | 21.54 |       |    |
|             | RB1#99  | 21.47 | 21.69 | 21.48 |       |    |
|             | RB50#0  | 19.90 | 19.93 | 19.92 |       |    |
|             | RB50#50 | 19.76 | 20.01 | 19.85 |       |    |
|             | RB100#0 | 19.55 | 19.68 | 19.51 |       |    |
| 20MHz 16QAM | RB1#0   | 21.37 | 20.76 | 20.42 | 21.17 | 33 |
|             | RB1#50  | 21.24 | 20.86 | 20.47 |       |    |
|             | RB1#99  | 21.11 | 20.91 | 20.40 |       |    |
|             | RB50#0  | 19.05 | 19.17 | 19.11 |       |    |
|             | RB50#50 | 18.85 | 19.25 | 19.18 |       |    |
|             | RB100#0 | 18.52 | 18.76 | 18.55 |       |    |

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)

**Result:** Pass

#### Peak-to-average Ratio(PAR)

| Test Bandwidth & Modulation | Resource Block & RB offset | Peak-to-average Ratio(dB) |                |                 | Limit (dB)  |
|-----------------------------|----------------------------|---------------------------|----------------|-----------------|-------------|
|                             |                            | Lowest Channel            | Middle Channel | Highest Channel |             |
| 20MHz QPSK                  | RB1#0                      | 6.10                      | 8.28           | 9.81            | 13          |
|                             | RB100#0                    | 6.44                      | 9.60           | 6.34            | 13          |
| 20MHz 16QAM                 | RB1#0                      | 7.33                      | 9.71           | 6.74            | 13          |
|                             | RB100#0                    | 9.58                      | 9.71           | 7.38            | 13          |
| <b>Result:</b>              |                            |                           |                |                 | <b>Pass</b> |

#### FCC §2.1049, §27.53:Occupied Bandwidth

| Operation Mode | 99% Occupied Bandwidth (MHz) |                |              | 26 dB Occupied Bandwidth (MHz) |                |              |
|----------------|------------------------------|----------------|--------------|--------------------------------|----------------|--------------|
|                | Low Channel                  | Middle channel | High Channel | Low Channel                    | Middle Channel | High Channel |
| 5MHz QPSK      | 4.511                        | 4.511          | 4.511        | 5.000                          | 5.120          | 5.000        |
| 5MHz 16QAM     | 4.511                        | 4.511          | 4.511        | 5.120                          | 5.100          | 5.200        |
| 10MHz QPSK     | 8.942                        | 8.942          | 8.942        | 9.800                          | 9.680          | 9.840        |
| 10MHz 16QAM    | 8.942                        | 8.942          | 8.942        | 9.800                          | 9.640          | 9.800        |
| 15MHz QPSK     | 13.533                       | 13.533         | 13.473       | 14.880                         | 15.180         | 15.060       |
| 15MHz 16QAM    | 13.533                       | 13.533         | 13.533       | 15.540                         | 15.000         | 14.940       |
| 20MHz QPSK     | 17.884                       | 18.044         | 17.884       | 19.520                         | 19.440         | 19.520       |
| 20MHz 16QAM    | 17.964                       | 17.964         | 17.964       | 19.440                         | 19.680         | 19.360       |

Note: The test plots please refer to the Plots of Occupied Bandwidth

#### FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal

|                |  |
|----------------|--|
| <b>Result:</b> | <b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b> |
|----------------|--|

|  |   |
|--|---|
| <b>FCC §2.1051, § 27.53: Out of band emission, Band Edge</b> |   |
| <b>Result:</b>   | <b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b> |

| <b>FCC §2.1055, §27.54: Frequency Stability</b> |                  |   |                  |       |                  |             |
|---|------------------|---|------------------|-------|------------------|-------------|
| Test Mode:                                      | 20M QPSK         | Test Channel: Lowest for Lower Edge, Highest for Upper Edge |                  |       |                  |             |
| Test Item                                       | Temperature (°C) | Voltage (V <sub>DC</sub> )                                  | Lower Edge (MHz) |       | Upper Edge (MHz) |             |
|   |                  |   | Result           | Limit | Result           | Limit       |
| Frequency Stability vs. Temperature             | -30              | 3.85  | 2535.123         | 2335  | 2654.976         | 2655        |
|   | -20              | 3.85  | 2535.146         | 2335  | 2654.987         | 2655        |
|   | -10              | 3.85  | 2535.157         | 2335  | 2654.972         | 2655        |
|   | 0                | 3.85  | 2535.131         | 2335  | 2654.982         | 2655        |
|   | 10               | 3.85  | 2535.127         | 2335  | 2654.981         | 2655        |
|   | 20               | 3.85  | 2535.126         | 2335  | 2654.993         | 2655        |
|   | 30               | 3.85  | 2535.141         | 2335  | 2654.986         | 2655        |
|   | 40               | 3.85  | 2535.144         | 2335  | 2654.986         | 2655        |
| Frequency Stability vs. Voltage                 | 20               | 3.35  | 2335.167         | 2335  | 2654.981         | 2655        |
|   | 20               | 4.4   | 2335.185         | 2335  | 2654.984         | 2655        |
|   |                  |   |                  |       | <b>Result:</b>   | <b>Pass</b> |

| Test Mode:                          | 20M 16QAM        | Test Channel: Lowest for Lower Edge, Highest for Upper Edge |                  |       |                  |             |
|-------------------------------------|------------------|---|------------------|-------|------------------|-------------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                  | Lower Edge (MHz) |       | Upper Edge (MHz) |             |
|                                     |                  |   | Result           | Limit | Result           | Limit       |
| Frequency Stability vs. Temperature | -30              | 3.85  | 2335.144         | 2335  | 2654.974         | 2655        |
|                                     | -20              | 3.85  | 2335.102         | 2335  | 2654.981         | 2655        |
|                                     | -10              | 3.85  | 2335.165         | 2335  | 2654.987         | 2655        |
|                                     | 0                | 3.85  | 2335.194         | 2335  | 2654.994         | 2655        |
|                                     | 10               | 3.85  | 2335.183         | 2335  | 2654.977         | 2655        |
|                                     | 20               | 3.85  | 2335.105         | 2335  | 2654.973         | 2655        |
|                                     | 30               | 3.85  | 2335.184         | 2335  | 2654.990         | 2655        |
|                                     | 40               | 3.85  | 2335.113         | 2335  | 2654.974         | 2655        |
|                                     | 50               | 3.85  | 2335.134         | 2335  | 2654.973         | 2655        |
| Frequency Stability vs. Voltage     | 20               | 3.35  | 2335.157         | 2335  | 2654.979         | 2655        |
|                                     | 20               | 4.4   | 2335.144         | 2335  | 2654.991         | 2655        |
|                                     |                  |   |                  |       | <b>Result:</b>   | <b>Pass</b> |

**Test Plots** (Note: The 11.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

| <b>Occupied Bandwidth</b> |  |  |
|---------------------------|--|--|
| <b>Channel</b>            | <b>5MHz Bandwidth QPSK</b>   | <b>5MHz Bandwidth 16QAM</b>  |
| Lowest                    | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 19:17:02</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 19:17:19</p> |
| Middle                    | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 19:17:39</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 19:18:02</p> |
| Highest                   | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 19:18:20</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 19:18:34</p> |

Occupied Bandwidth

| Channel | 10MHz Bandwidth QPSK   | 10MHz Bandwidth 16QAM  |
|---------|--|--|
| Lowest  | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 19:19:29</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 19:19:45</p> |
| Middle  | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 19:20:09</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 19:20:32</p> |
| Highest | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 19:21:10</p> | <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 19:21:36</p> |

Occupied Bandwidth

| Channel | 15MHz Bandwidth QPSK | 15MHz Bandwidth 16QAM |
|---------|----------------------|-----------------------|
| Lowest  |                      |                       |
| Middle  |                      |                       |
| Highest |                      |                       |

Occupied Bandwidth

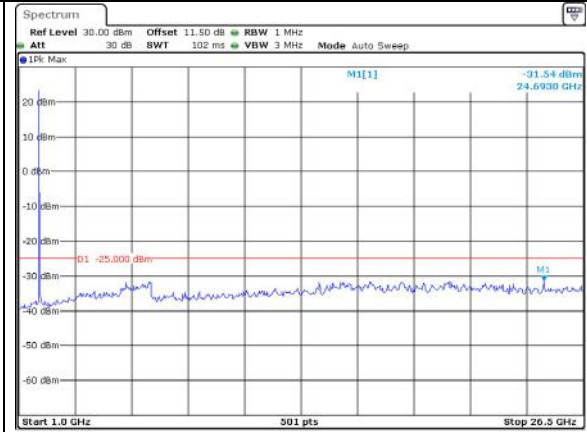
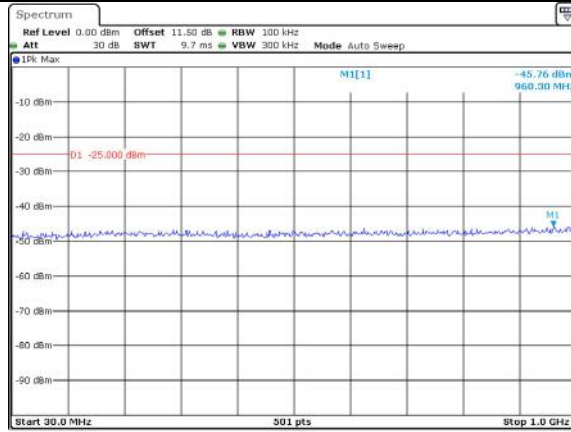
| Channel | 20MHz Bandwidth QPSK | 20MHz Bandwidth 16QAM |
|---------|----------------------|-----------------------|
| Lowest  |                      |                       |
| Middle  |                      |                       |
| Highest |                      |                       |

Spurious Emissions at Antenna Terminal

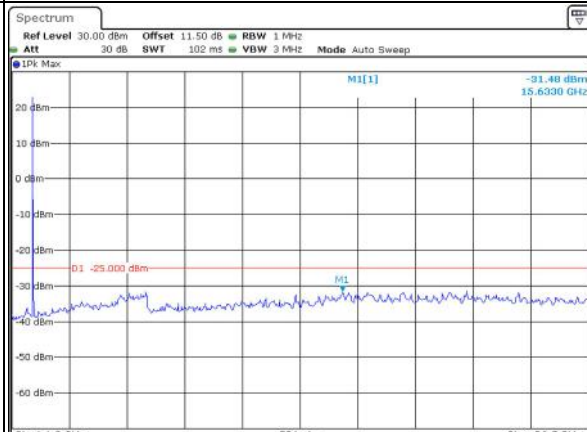
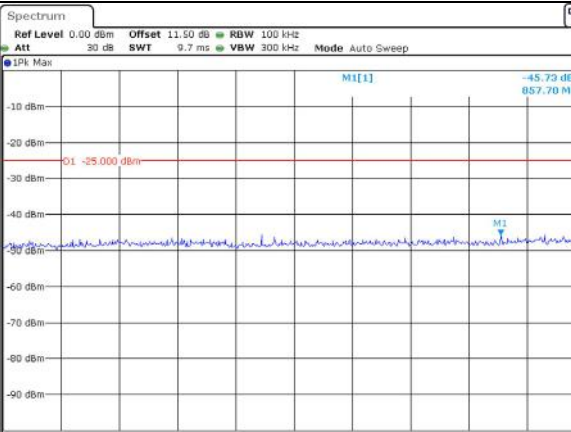
Channel

5MHz Bandwidth QPSK

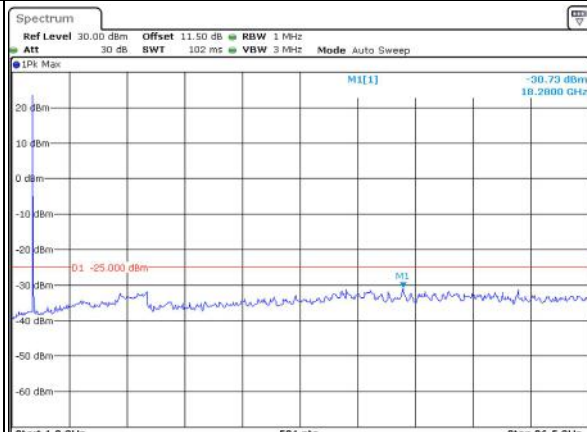
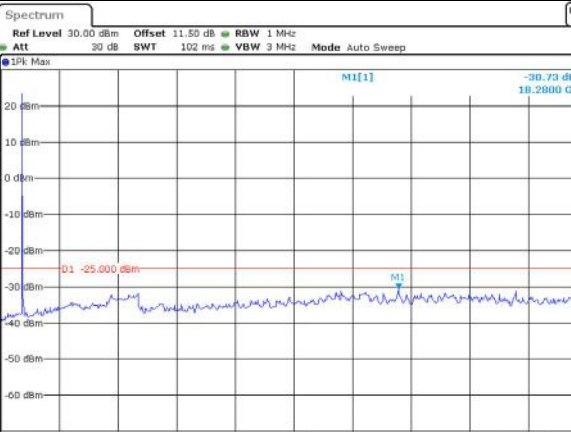
Lowest



Middle



Highest



Spurious Emissions at Antenna Terminal

| Channel | 10MHz Bandwidth QPSK  |   |
|---------|---|---|
| Lowest  | <p>Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz<br/>Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -45.27 dBm 952.60 MHz</p> <p>D1 -25.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 20:10:28</p> | <p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz<br/>Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -31.65 dBm 15.5870 GHz</p> <p>D1 -25.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 26.5 GHz</p> <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 20:10:55</p> |
| Middle  | <p>Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz<br/>Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -45.81 dBm 935.10 MHz</p> <p>D1 -25.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 20:11:16</p> | <p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz<br/>Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -31.10 dBm 15.5310 GHz</p> <p>D1 -25.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 26.5 GHz</p> <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 20:11:43</p> |
| Highest | <p>Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz<br/>Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -44.85 dBm 954.50 MHz</p> <p>D1 -25.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 20:12:14</p> | <p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz<br/>Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -31.32 dBm 16.9060 GHz</p> <p>D1 -25.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 26.5 GHz</p> <p>ProjectNo.:CR231058425 Tester:Ken Tang<br/>Date: 29.OCT.2023 20:12:44</p> |

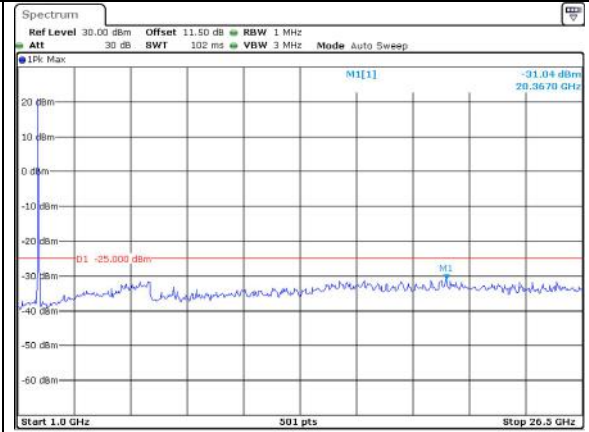
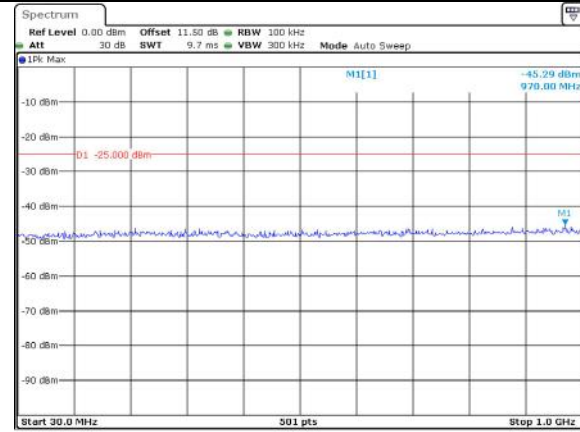


Spurious Emissions at Antenna Terminal

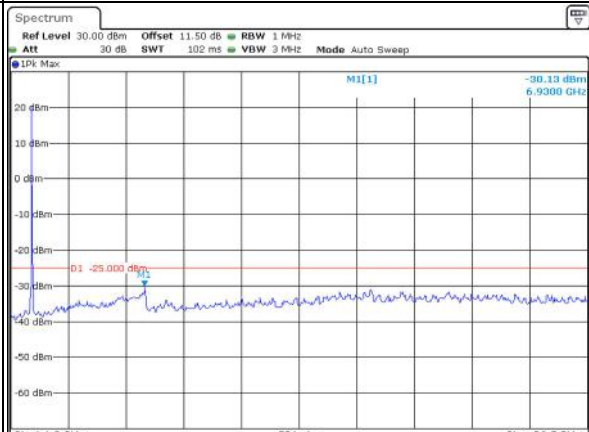
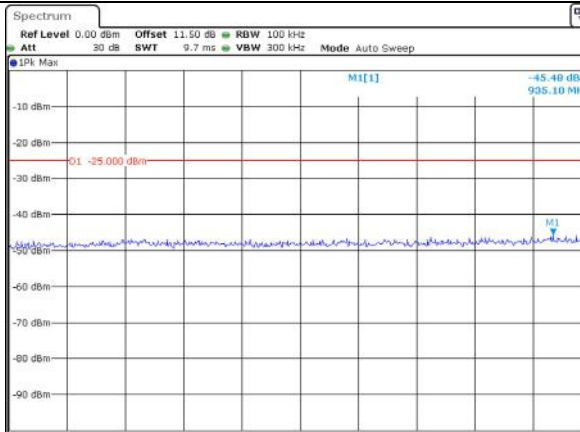
Channel

15MHz Bandwidth QPSK

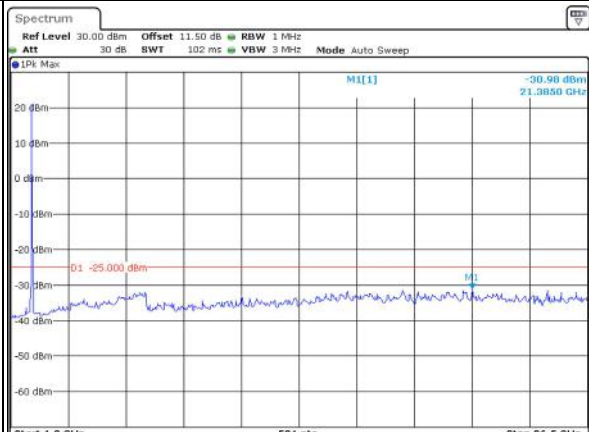
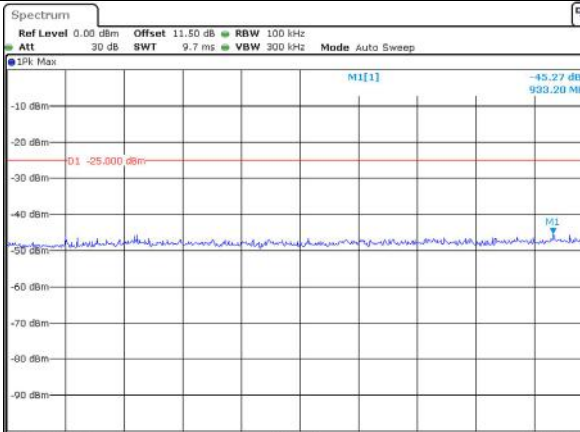
Lowest



Middle



Highest

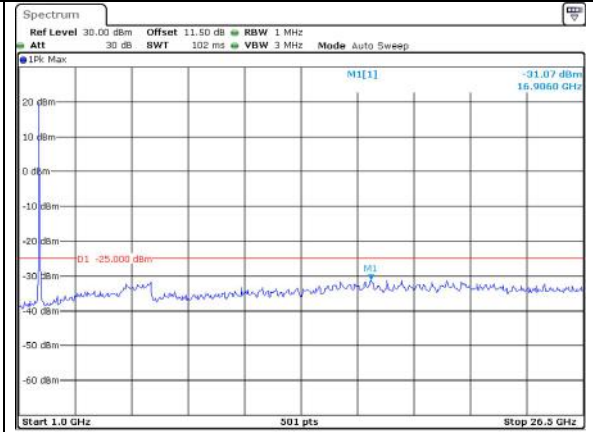
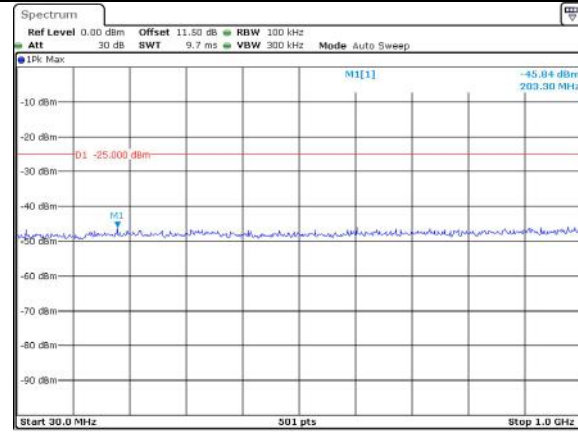


Spurious Emissions at Antenna Terminal

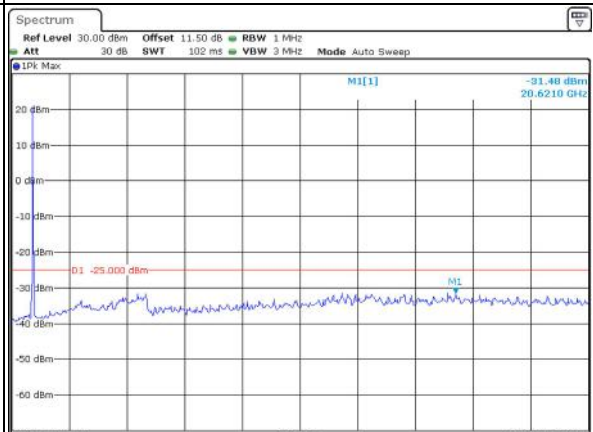
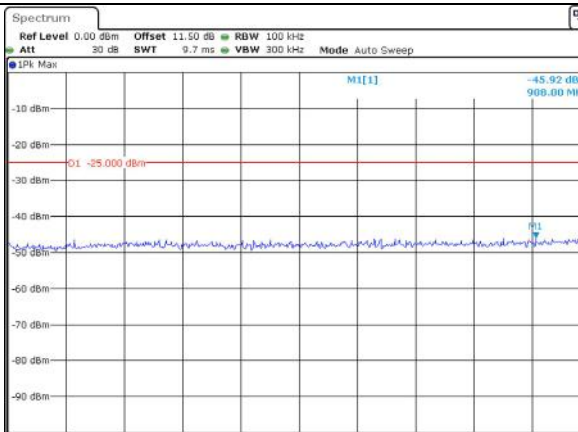
Channel

20MHz Bandwidth QPSK

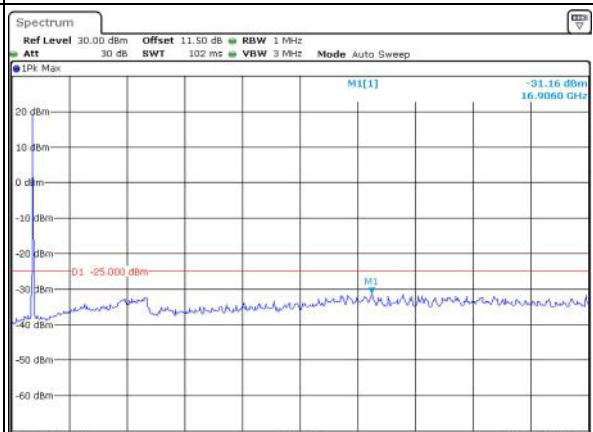
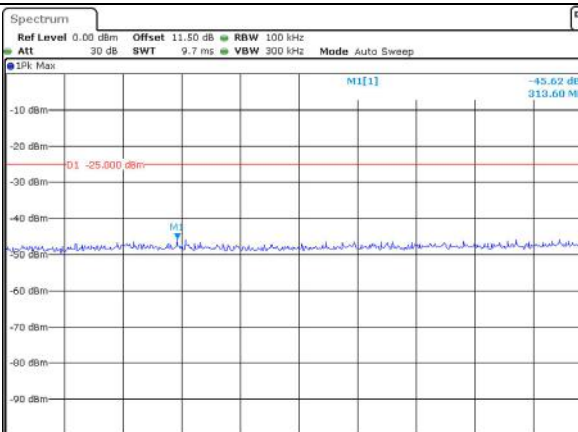
Lowest



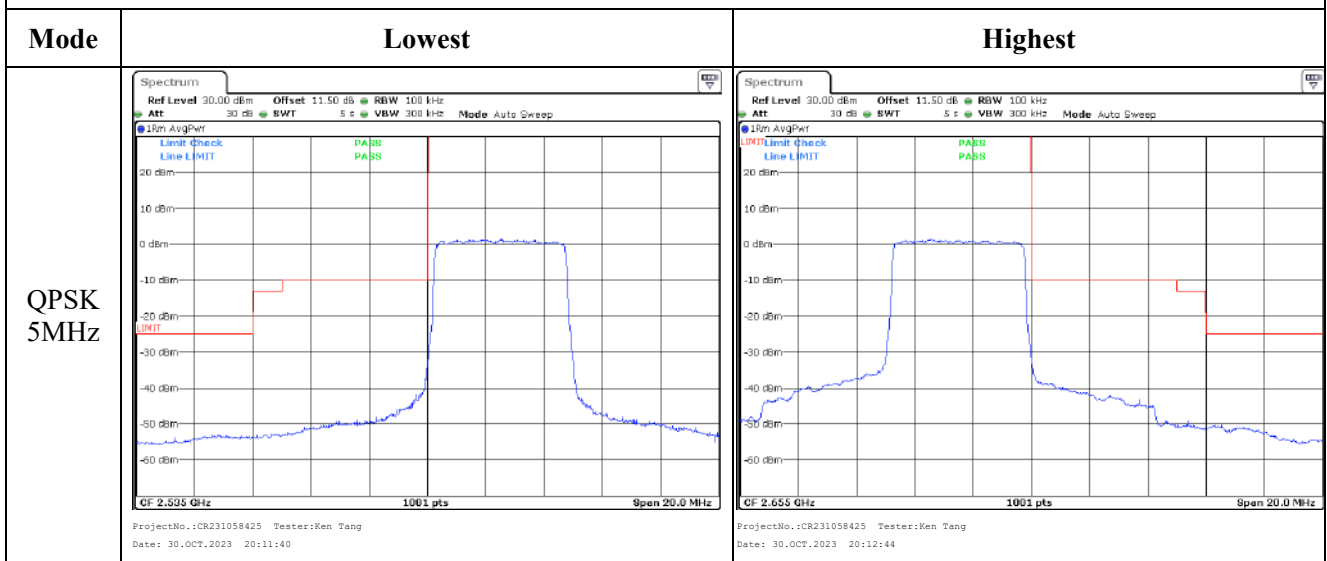
Middle



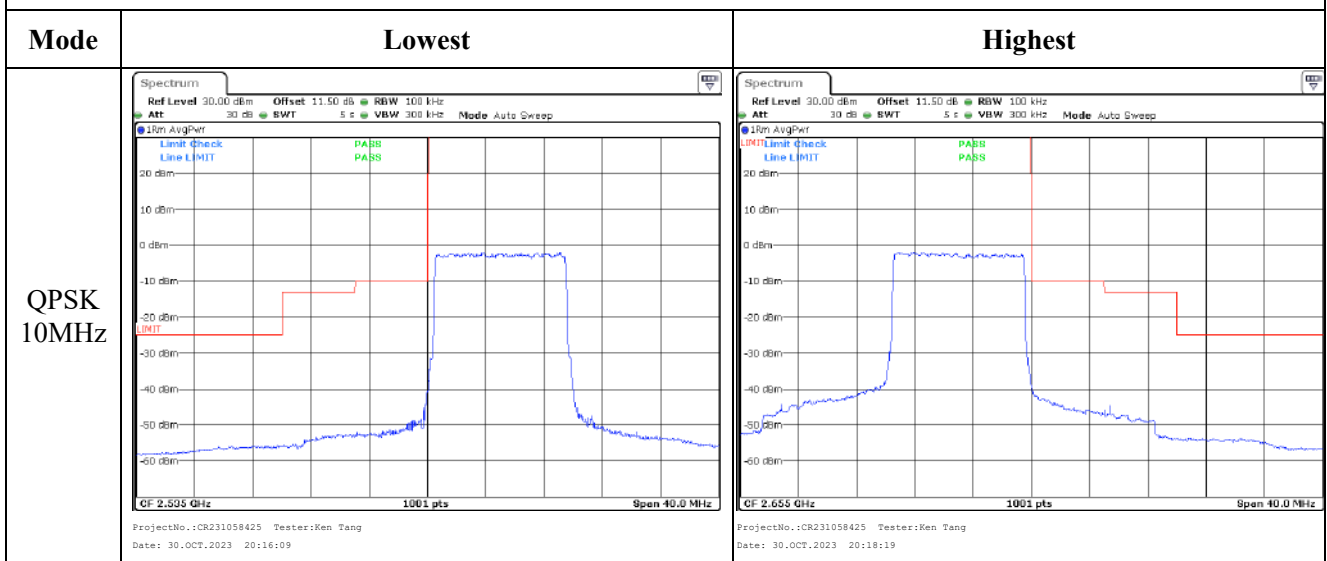
Highest



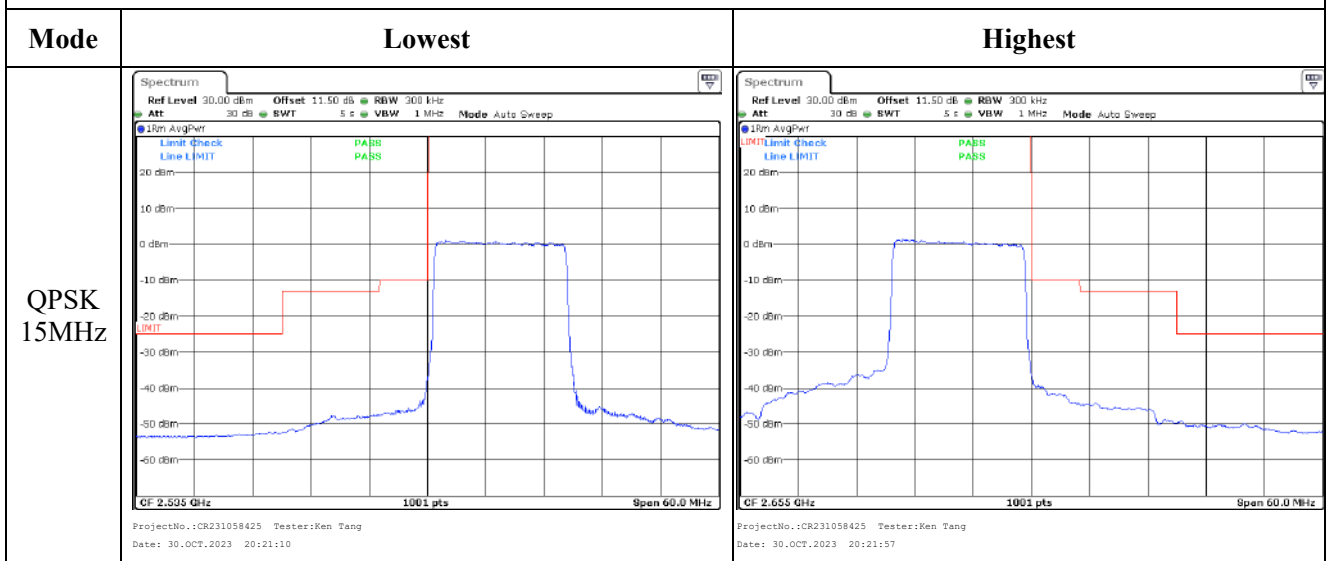
Out of band emission, Band Edge



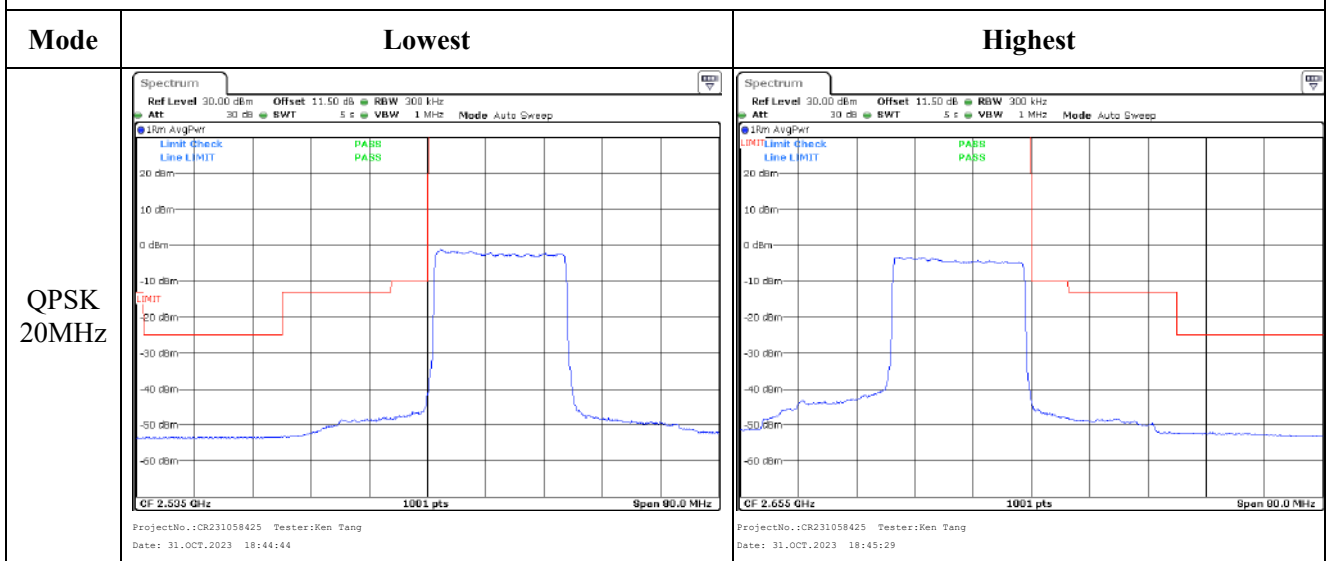
Out of band emission, Band Edge



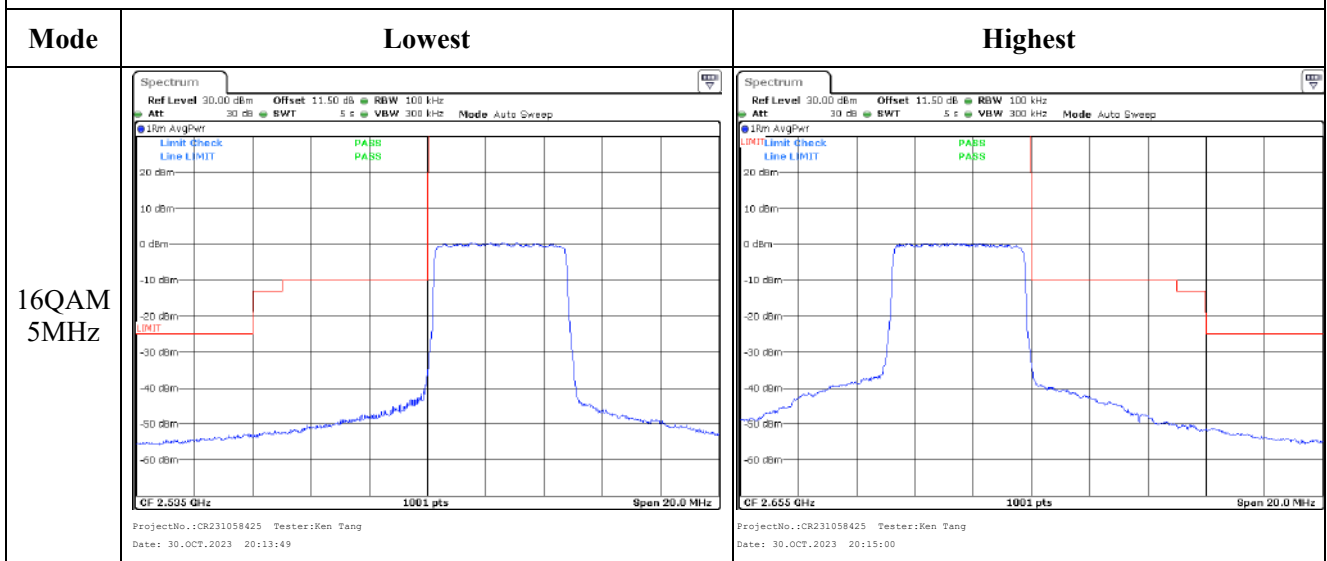
Out of band emission, Band Edge



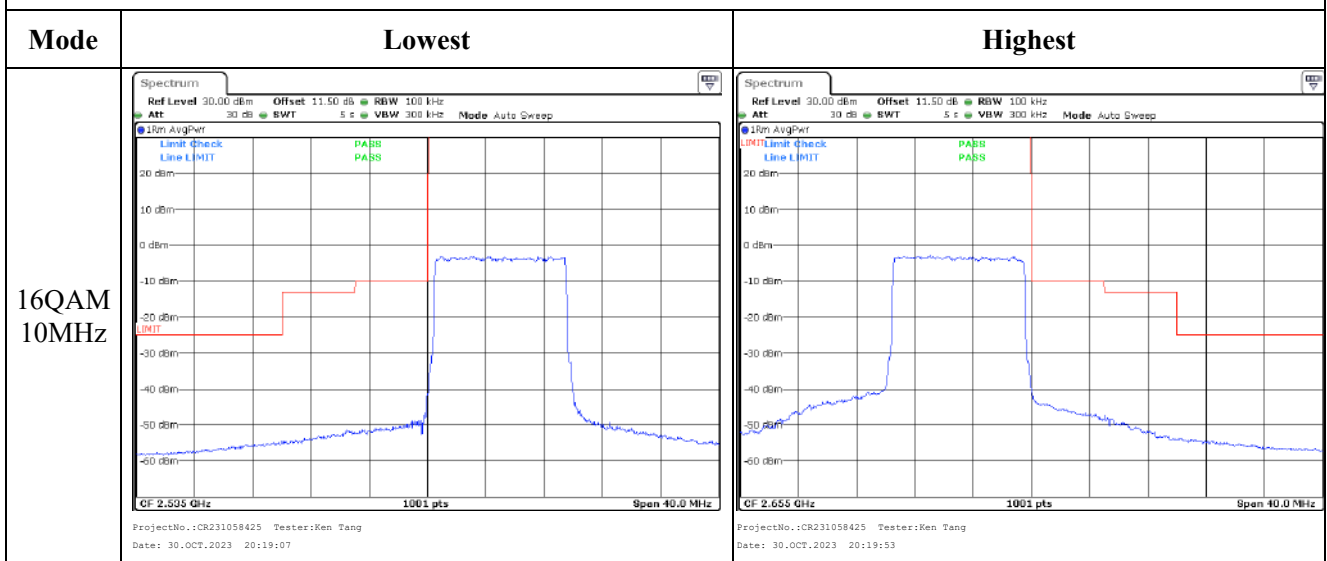
Out of band emission, Band Edge



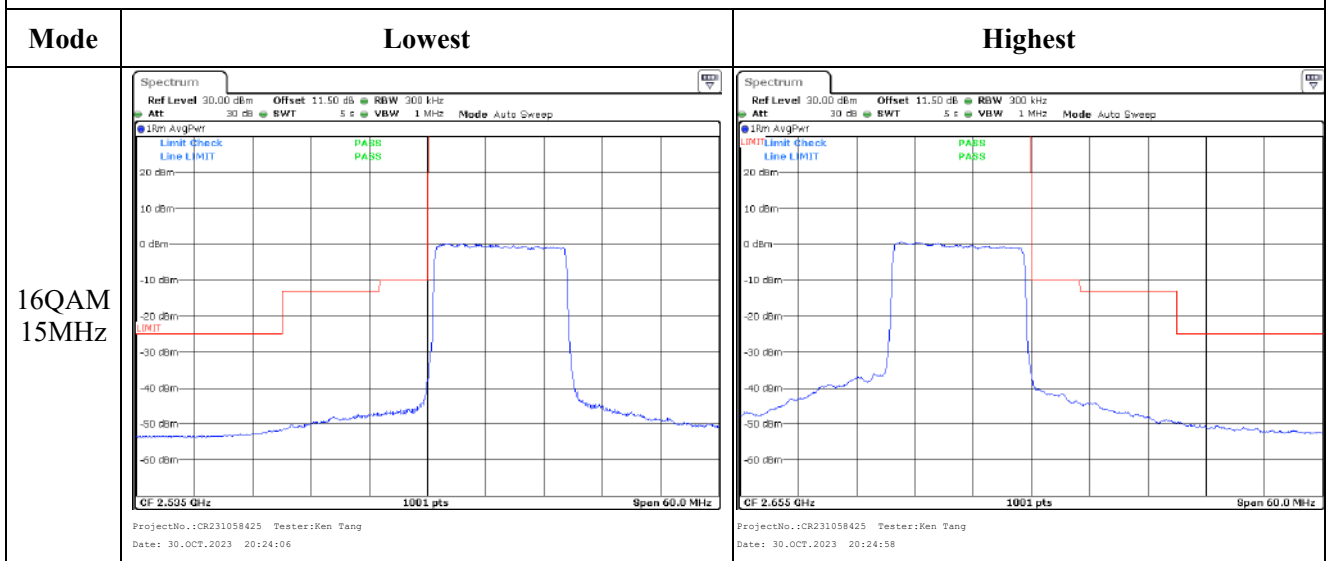
Out of band emission, Band Edge



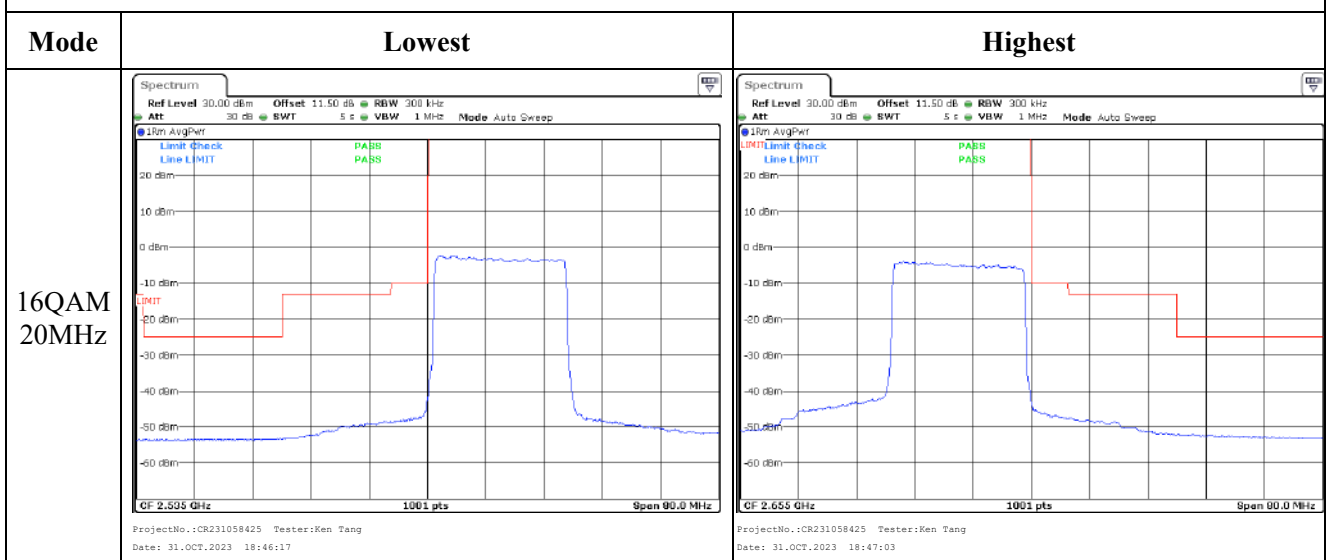
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



**4.18 Antenna Port Test Data and Results for LTE Band 66**

|                |          |              |                      |
|----------------|----------|--------------|----------------------|
| Serial Number: | 2BYR-5   | Test Date:   | 2023/10/27-2023/11/6 |
| Test Site:     | RF       | Test Mode:   | Transmitting         |
| Tester:        | Ken Tang | Test Result: | Pass                 |

**Environmental Conditions:**

|                      |           |                           |       |                        |             |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|
| Temperature:<br>(°C) | 24.5-25.3 | Relative Humidity:<br>(%) | 60-62 | ATM Pressure:<br>(kPa) | 100.5-100.9 |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|

**Test Equipment List and Details:**

| Manufacturer  | Description                         | Model         | Serial Number   | Calibration Date | Calibration Due Date |
|---------------|-------------------------------------|---------------|-----------------|------------------|----------------------|
| R&S           | Spectrum Analyzer                   | FSV40         | 101943          | 2023/3/31        | 2024/3/30            |
| zhuoxiang     | Coaxial Cable                       | SMA-178       | 211001          | Each time        | N/A                  |
| zhuoxiang     | Coaxial Cable                       | SMA-178       | 211002          | Each time        | N/A                  |
| eastsheep     | Coaxial Attenuator                  | 2W-SMA-JK-18G | 21060301        | Each time        | N/A                  |
| Minl-Circuits | Power Splitter                      | ZFRSC-183-S+  | S F448201619    | Each time        | N/A                  |
| R&S           | Wideband Radio Communication Tester | CMW500        | 143458          | 2023/3/31        | 2024/3/30            |
| BACL          | TEMP&HUMI Test Chamber              | BTH-150-40    | 30174           | 2023/3/31        | 2024/3/30            |
| UNI-T         | Multimeter                          | UT39A+        | C210582554      | 2023/9/28        | 2024/9/27            |
| ZHAOXIN       | DC Power Supply                     | RXN-6010D     | 21R6010D0912386 | N/A              | N/A                  |

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Frequency for Each Mode:**

| Operation Bandwidth | Lowest Frequency (MHz) | Middle Frequency (MHz) | Highest Frequency (MHz) |
|---------------------|------------------------|------------------------|-------------------------|
| 1.4MHz              | 1710.7                 | 1745                   | 1779.3                  |
| 3MHz                | 1711.5                 | 1745                   | 1778.5                  |
| 5MHz                | 1712.5                 | 1745                   | 1777.5                  |
| 10MHz               | 1715                   | 1745                   | 1775                    |
| 15MHz               | 1717.5                 | 1745                   | 1772.5                  |
| 20MHz               | 1720                   | 1745                   | 1770                    |

| <b>Test Data:</b>               |                            |                                     |                |                 |                    |                  |
|---------------------------------|----------------------------|-------------------------------------|----------------|-----------------|--------------------|------------------|
| <b>FCC§2.1046;§ 27.50(d)(4)</b> |                            |                                     |                |                 |                    |                  |
| <b>RF Output Power:</b>         |                            |                                     |                |                 |                    |                  |
| Test Bandwidth & Modulation     | Resource Block & RB offset | Conducted Average Output Power(dBm) |                |                 | Maximum EIRP (dBm) | EIRP Limit (dBm) |
|                                 |                            | Lowest Channel                      | Middle Channel | Highest Channel |                    |                  |
| 1.4MHz QPSK                     | RB1#0                      | 17.14                               | 16.74          | 16.55           | 16.00              | 30               |
|                                 | RB1#3                      | 17.40                               | 16.94          | 16.67           |                    |                  |
|                                 | RB1#5                      | 17.24                               | 16.74          | 16.48           |                    |                  |
|                                 | RB3#0                      | 17.30                               | 16.90          | 16.72           |                    |                  |
|                                 | RB3#3                      | 17.36                               | 16.89          | 16.63           |                    |                  |
|                                 | RB6#0                      | 16.34                               | 15.87          | 15.64           |                    |                  |
| 1.4MHz 16QAM                    | RB1#0                      | 16.35                               | 15.77          | 15.59           | 15.22              | 30               |
|                                 | RB1#3                      | 16.62                               | 15.98          | 15.73           |                    |                  |
|                                 | RB1#5                      | 16.46                               | 15.79          | 15.49           |                    |                  |
|                                 | RB3#0                      | 16.38                               | 16.02          | 15.91           |                    |                  |
|                                 | RB3#3                      | 16.46                               | 16.01          | 15.84           |                    |                  |
|                                 | RB6#0                      | 15.58                               | 14.92          | 14.95           |                    |                  |
| 3MHz QPSK                       | RB1#0                      | 17.21                               | 16.76          | 16.78           | 16.09              | 30               |
|                                 | RB1#8                      | 17.49                               | 16.86          | 16.73           |                    |                  |
|                                 | RB1#14                     | 17.45                               | 16.72          | 16.47           |                    |                  |
|                                 | RB6#0                      | 16.31                               | 15.97          | 15.88           |                    |                  |
|                                 | RB6#9                      | 16.48                               | 15.95          | 15.71           |                    |                  |
|                                 | RB15#0                     | 16.44                               | 15.99          | 15.83           |                    |                  |
| 3MHz 16QAM                      | RB1#0                      | 16.33                               | 15.91          | 16.45           | 15.22              | 30               |
|                                 | RB1#8                      | 16.62                               | 16.00          | 16.42           |                    |                  |
|                                 | RB1#14                     | 16.59                               | 15.87          | 16.14           |                    |                  |
|                                 | RB6#0                      | 15.52                               | 15.00          | 15.23           |                    |                  |
|                                 | RB6#9                      | 15.70                               | 14.98          | 15.06           |                    |                  |
|                                 | RB15#0                     | 15.57                               | 15.11          | 15.19           |                    |                  |
| 5MHz QPSK                       | RB1#0                      | 16.96                               | 16.48          | 16.76           | 16.31              | 30               |
|                                 | RB1#13                     | 17.71                               | 16.96          | 17.03           |                    |                  |
|                                 | RB1#24                     | 17.28                               | 16.45          | 16.29           |                    |                  |
|                                 | RB15#0                     | 16.43                               | 15.98          | 16.00           |                    |                  |
|                                 | RB15#10                    | 16.58                               | 15.97          | 15.84           |                    |                  |
|                                 | RB25#0                     | 16.47                               | 15.94          | 15.88           |                    |                  |
| 5MHz 16QAM                      | RB1#0                      | 16.23                               | 15.71          | 15.70           | 15.61              | 30               |
|                                 | RB1#13                     | 17.01                               | 16.18          | 15.98           |                    |                  |
|                                 | RB1#24                     | 16.58                               | 15.67          | 15.25           |                    |                  |
|                                 | RB15#0                     | 15.58                               | 15.07          | 15.32           |                    |                  |
|                                 | RB15#10                    | 15.74                               | 15.06          | 15.15           |                    |                  |
|                                 | RB25#0                     | 15.64                               | 15.02          | 15.21           |                    |                  |



|             |         |       |       |       |       |    |
|-------------|---------|-------|-------|-------|-------|----|
| 10MHz QPSK  | RB1#0   | 17.01 | 16.74 | 17.21 | 16.47 | 30 |
|             | RB1#25  | 17.57 | 16.93 | 17.20 |       |    |
|             | RB1#49  | 17.87 | 17.25 | 17.02 |       |    |
|             | RB25#0  | 16.42 | 16.07 | 16.40 |       |    |
|             | RB25#25 | 16.77 | 16.31 | 16.28 |       |    |
|             | RB50#0  | 16.60 | 16.20 | 16.33 |       |    |
| 10MHz 16QAM | RB1#0   | 16.14 | 15.87 | 16.87 | 15.63 | 30 |
|             | RB1#25  | 16.72 | 16.07 | 16.87 |       |    |
|             | RB1#49  | 17.03 | 16.40 | 16.71 |       |    |
|             | RB25#0  | 15.70 | 15.20 | 15.71 |       |    |
|             | RB25#25 | 16.06 | 15.44 | 15.60 |       |    |
|             | RB50#0  | 15.86 | 15.26 | 15.59 |       |    |
| 15MHz QPSK  | RB1#0   | 17.30 | 16.95 | 17.42 | 16.25 | 30 |
|             | RB1#38  | 17.41 | 16.90 | 17.12 |       |    |
|             | RB1#74  | 17.65 | 17.02 | 16.62 |       |    |
|             | RB36#0  | 16.54 | 16.20 | 16.52 |       |    |
|             | RB36#39 | 16.72 | 16.21 | 16.13 |       |    |
|             | RB75#0  | 16.63 | 16.21 | 16.33 |       |    |
| 15MHz 16QAM | RB1#0   | 16.42 | 16.51 | 17.12 | 15.72 | 30 |
|             | RB1#38  | 16.60 | 16.49 | 16.89 |       |    |
|             | RB1#74  | 16.83 | 16.59 | 16.34 |       |    |
|             | RB36#0  | 15.84 | 15.22 | 15.66 |       |    |
|             | RB36#39 | 16.01 | 15.24 | 15.29 |       |    |
|             | RB75#0  | 15.92 | 15.22 | 15.48 |       |    |
| 20MHz QPSK  | RB1#0   | 17.59 | 17.53 | 18.04 | 16.64 | 30 |
|             | RB1#50  | 17.41 | 16.90 | 17.29 |       |    |
|             | RB1#99  | 18.04 | 17.59 | 17.10 |       |    |
|             | RB50#0  | 16.65 | 16.46 | 16.82 |       |    |
|             | RB50#50 | 16.80 | 16.46 | 16.42 |       |    |
|             | RB100#0 | 16.72 | 16.45 | 16.61 |       |    |
| 20MHz 16QAM | RB1#0   | 16.80 | 17.23 | 17.38 | 15.98 | 30 |
|             | RB1#50  | 16.73 | 16.62 | 16.72 |       |    |
|             | RB1#99  | 17.27 | 17.29 | 16.45 |       |    |
|             | RB50#0  | 15.75 | 15.48 | 15.94 |       |    |
|             | RB50#50 | 15.90 | 15.49 | 15.54 |       |    |
|             | RB100#0 | 15.81 | 15.42 | 15.76 |       |    |

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)

**Result:**

**Pass**

| <b>Peak-to-average Ratio(PAR)</b> |                            |                           |                |                 |             |
|-----------------------------------|----------------------------|---------------------------|----------------|-----------------|-------------|
| Test Bandwidth & Modulation       | Resource Block & RB offset | Peak-to-average Ratio(dB) |                |                 | Limit (dB)  |
|                                   |                            | Lowest Channel            | Middle Channel | Highest Channel |             |
| 20MHz QPSK                        | RB1#0                      | 8.38                      | 9.97           | 7.6             | 13          |
|                                   | RB100#0                    | 8.09                      | 9.30           | 8.14            | 13          |
| 20MHz 16QAM                       | RB1#0                      | 6.20                      | 6.00           | 9.93            | 13          |
|                                   | RB100#0                    | 6.90                      | 6.61           | 8.71            | 13          |
| <b>Result:</b>                    |                            |                           |                |                 | <b>Pass</b> |

| <b>FCC §2.1049, §27.53:Occupied Bandwidth</b> |                              |                |              |                                |                |              |
|---|------------------------------|----------------|--------------|--------------------------------|----------------|--------------|
| Operation Mode                                | 99% Occupied Bandwidth (MHz) |                |              | 26 dB Occupied Bandwidth (MHz) |                |              |
|   | Low Channel                  | Middle channel | High Channel | Low Channel                    | Middle Channel | High Channel |
| 1.4MHz QPSK                                   | 1.102                        | 1.096          | 1.102        | 1.260                          | 1.254          | 1.254        |
| 1.4MHz 16QAM                                  | 1.096                        | 1.102          | 1.09         | 1.254                          | 1.266          | 1.25         |
| 3MHz QPSK                                     | 2.695                        | 2.695          | 2.695        | 3.000                          | 3.024          | 3.012        |
| 3MHz 16QAM                                    | 2.683                        | 2.695          | 2.695        | 3.000                          | 3.024          | 3.000        |
| 5MHz QPSK                                     | 4.511                        | 4.511          | 4.531        | 5.000                          | 5.020          | 4.980        |
| 5MHz 16QAM                                    | 4.511                        | 4.511          | 4.511        | 5.000                          | 5.000          | 5.000        |
| 10MHz QPSK                                    | 8.942                        | 8.942          | 8.942        | 9.320                          | 9.800          | 9.760        |
| 10MHz 16QAM                                   | 8.942                        | 8.942          | 8.942        | 9.840                          | 9.840          | 9.720        |
| 15MHz QPSK                                    | 13.473                       | 13.533         | 13.533       | 15.060                         | 14.940         | 14.940       |
| 15MHz 16QAM                                   | 13.533                       | 13.533         | 13.533       | 15.060                         | 15.000         | 14.940       |
| 20MHz QPSK                                    | 17.884                       | 18.044         | 17.964       | 19.520                         | 19.680         | 19.520       |
| 20MHz 16QAM                                   | 17.964                       | 17.964         | 18.044       | 19.600                         | 19.440         | 19.600       |

Note: The test plots please refer to the Plots of Occupied Bandwidth

| <b>FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal</b> |  |
|--|--|
| <b>Result:</b>   | <b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b> |

| <b>FCC §2.1051, § 27.53:Out of band emission, Band Edge</b> |   |
|---|---|
| <b>Result:</b>  | <b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b> |

| FCC §2.1055, §27.54: Frequency Stability |                  |  |                  |          |                  |             |
|--|------------------|--|------------------|----------|------------------|-------------|
| Test Mode:                               | 20M QPSK         | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                  |          |                  |             |
| Test Item                                | Temperature (°C) | Voltage (V <sub>DC</sub> )                                 | Lower Edge (MHz) |          | Upper Edge (MHz) |             |
|  |                  |  | Result           | Limit    | Result           | Limit       |
| Frequency Stability vs. Temperature      | -30              | 3.85   | 2535.011         | 2535.000 | 2654.985         | 2655.000    |
|  | -20              | 3.85   | 2535.013         | 2535.000 | 2654.989         | 2655.000    |
|  | -10              | 3.85   | 2535.015         | 2535.000 | 2654.984         | 2655.000    |
|  | 0                | 3.85   | 2535.011         | 2535.000 | 2654.983         | 2655.000    |
|  | 10               | 3.85   | 2535.014         | 2535.000 | 2654.987         | 2655.000    |
|  | 20               | 3.85   | 2535.013         | 2535.000 | 2654.985         | 2655.000    |
|  | 30               | 3.85   | 2535.018         | 2535.000 | 2654.986         | 2655.000    |
|  | 40               | 3.85   | 2535.019         | 2535.000 | 2654.981         | 2655.000    |
|  | 50               | 3.85   | 2535.015         | 2535.000 | 2654.992         | 2655.000    |
| Frequency Stability vs. Voltage          | 20               | 3.35   | 2535.012         | 2535.000 | 2654.984         | 2655.000    |
|  | 20               | 4.4  | 2535.018         | 2535.000 | 2654.991         | 2655.000    |
|  |                  |  |                  |          | <b>Result:</b>   | <b>Pass</b> |

| Test Mode:                          | 20M 16QAM        | Test Channel: Lowest for Lower Edge,Highest for Upper Edge |                  |          |                  |             |
|-------------------------------------|------------------|--|------------------|----------|------------------|-------------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> )                                 | Lower Edge (MHz) |          | Upper Edge (MHz) |             |
|                                     |                  |  | Result           | Limit    | Result           | Limit       |
| Frequency Stability vs. Temperature | -30              | 3.85   | 2535.015         | 2535.000 | 2654.985         | 2655.000    |
|                                     | -20              | 3.85   | 2535.015         | 2535.000 | 2654.979         | 2655.000    |
|                                     | -10              | 3.85   | 2535.021         | 2535.000 | 2654.983         | 2655.000    |
|                                     | 0                | 3.85   | 2535.018         | 2535.000 | 2654.985         | 2655.000    |
|                                     | 10               | 3.85   | 2535.017         | 2535.000 | 2654.981         | 2655.000    |
|                                     | 20               | 3.85   | 2535.016         | 2535.000 | 2654.985         | 2655.000    |
|                                     | 30               | 3.85   | 2535.019         | 2535.000 | 2654.983         | 2655.000    |
|                                     | 40               | 3.85   | 2535.019         | 2535.000 | 2654.979         | 2655.000    |
|                                     | 50               | 3.85   | 2535.016         | 2535.000 | 2654.983         | 2655.000    |
| Frequency Stability vs. Voltage     | 20               | 3.35   | 2535.018         | 2535.000 | 2654.979         | 2655.000    |
|                                     | 20               | 4.4  | 2535.015         | 2535.000 | 2654.985         | 2655.000    |
|                                     |                  |  |                  |          | <b>Result:</b>   | <b>Pass</b> |

**Test Plots** (Note: The 11.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

| <b>Occupied Bandwidth</b> |   |   |
|---------------------------|---|---|
| <b>Channel</b>            | <b>1.4MHz Bandwidth QPSK</b>  | <b>1.4MHz Bandwidth 16QAM</b>   |
| <b>Lowest</b>             | <p>ProjectNo.:CR231058425 Testeri:Ken Tang<br/>Date: 27.OCT.2023 23:18:05</p> | <p>ProjectNo.:CR231058425 Testeri:Ken Tang<br/>Date: 27.OCT.2023 23:18:26</p> |
| <b>Middle</b>             | <p>ProjectNo.:CR231058425 Testeri:Ken Tang<br/>Date: 27.OCT.2023 23:18:41</p> | <p>ProjectNo.:CR231058425 Testeri:Ken Tang<br/>Date: 27.OCT.2023 23:19:04</p> |
| <b>Highest</b>            | <p>ProjectNo.:CR231058425 Testeri:Ken Tang<br/>Date: 27.OCT.2023 23:19:26</p> | <p>ProjectNo.:CR231058425 Testeri:Ken Tang<br/>Date: 27.OCT.2023 23:19:43</p> |

Occupied Bandwidth

| Channel | 3MHz Bandwidth QPSK | 3MHz Bandwidth 16QAM |
|---------|---------------------|----------------------|
| Lowest  |                     |                      |
| Middle  |                     |                      |
| Highest |                     |                      |

Occupied Bandwidth

| Channel | 5MHz Bandwidth QPSK  | 5MHz Bandwidth 16QAM   |
|---------|--|--|
| Lowest  | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:22:109</p> | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:22:126</p> |
| Middle  | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:22:151</p> | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:23:112</p> |
| Highest | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:23:137</p> | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:24:101</p> |

Occupied Bandwidth

| Channel | 10MHz Bandwidth QPSK  | 10MHz Bandwidth 16QAM   |
|---------|---|---|
| Lowest  | <p>ProjectNo.:CR231058425 Testeri:Ken Tang<br/>Date: 27.OCT.2023 23:24:33</p> | <p>ProjectNo.:CR231058425 Testeri:Ken Tang<br/>Date: 27.OCT.2023 23:25:00</p> |
| Middle  | <p>ProjectNo.:CR231058425 Testeri:Ken Tang<br/>Date: 27.OCT.2023 23:25:25</p> | <p>ProjectNo.:CR231058425 Testeri:Ken Tang<br/>Date: 27.OCT.2023 23:25:52</p> |
| Highest | <p>ProjectNo.:CR231058425 Testeri:Ken Tang<br/>Date: 27.OCT.2023 23:26:20</p> | <p>ProjectNo.:CR231058425 Testeri:Ken Tang<br/>Date: 27.OCT.2023 23:26:44</p> |

Occupied Bandwidth

| Channel | 15MHz Bandwidth QPSK  | 15MHz Bandwidth 16QAM   |
|---------|---|---|
| Lowest  | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:27:21</p> | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:27:57</p> |
| Middle  | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:28:24</p> | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:28:50</p> |
| Highest | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:29:17</p> | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:29:47</p> |



Occupied Bandwidth

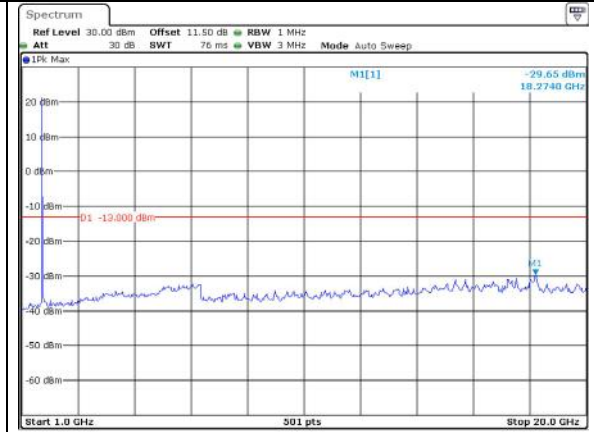
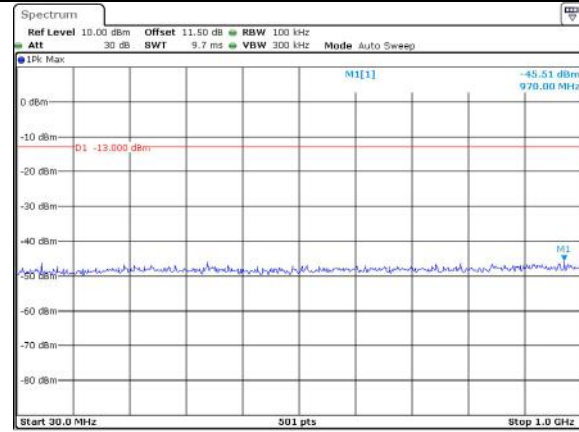
| Channel | 20MHz Bandwidth QPSK  | 20MHz Bandwidth 16QAM   |
|---------|---|---|
| Lowest  | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:30:18</p> | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:30:15</p> |
| Middle  | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:31:27</p> | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:31:19</p> |
| Highest | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:32:24</p> | <p>ProjectNo.:CR231058425 Testter:Ken Tang<br/>Date: 27.OCT.2023 23:32:17</p> |

Spurious Emissions at Antenna Terminal

Channel

1.4MHz Bandwidth QPSK

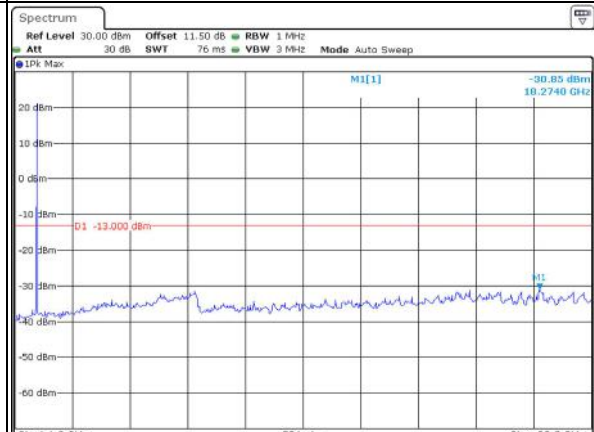
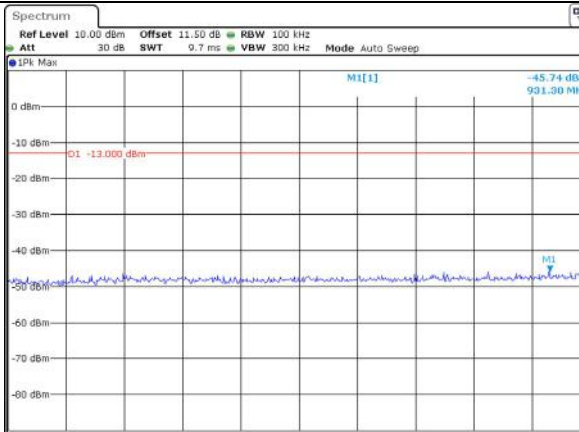
Lowest



ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 16:53:18

ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 16:54:24

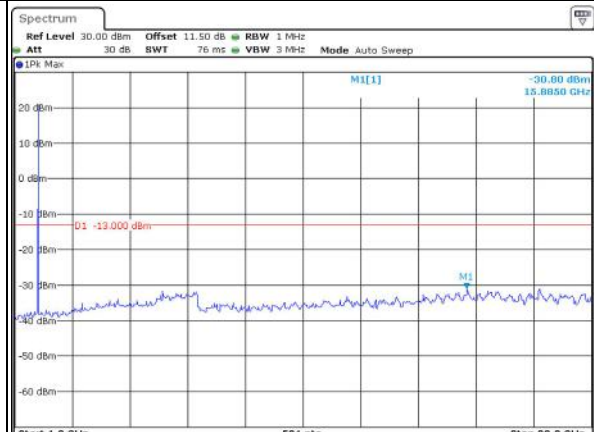
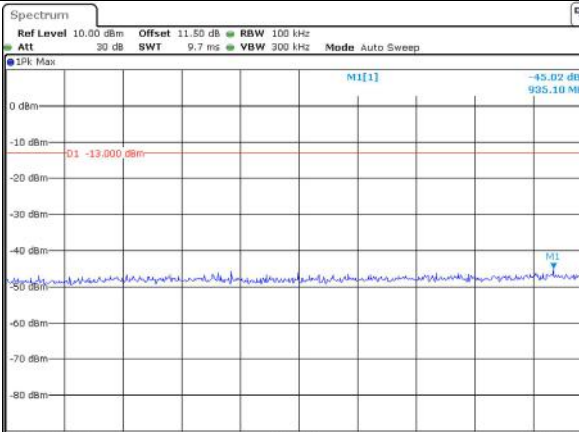
Middle



ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 16:54:53

ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 16:55:16

Highest



ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 16:55:48

ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 16:56:14

Spurious Emissions at Antenna Terminal

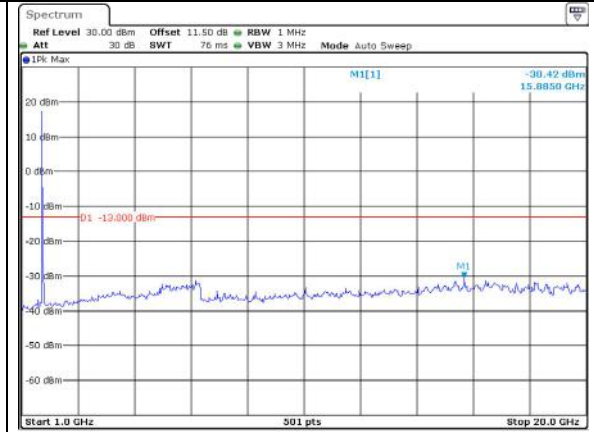
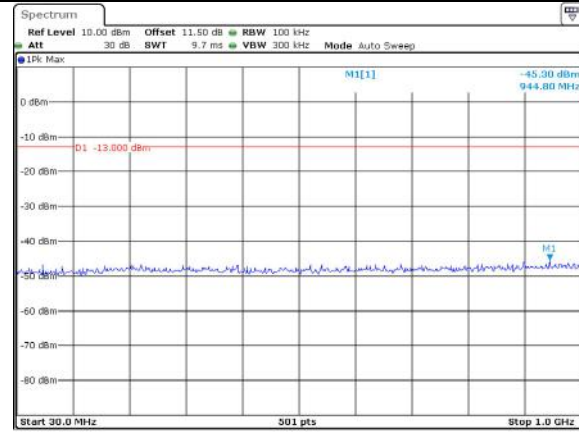
| Channel | 3MHz Bandwidth QPSK  |  |
|---------|--|--|
| Lowest  | <p>Ref Level 10.00 dBm Offset 11.50 dB RBW 100 kHz<br/>Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -45.66 dBm 940.90 MHz</p> <p>D1 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR231058425 Tester:Len Huang<br/>Date: 6.NOV.2023 16:57:13</p> | <p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz<br/>Att 30 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -31.00 dBm 16.8710 GHz</p> <p>D1 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <p>ProjectNo.:CR231058425 Tester:Len Huang<br/>Date: 6.NOV.2023 16:57:06</p> |
| Middle  | <p>Ref Level 10.00 dBm Offset 11.50 dB RBW 100 kHz<br/>Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -45.45 dBm 668.00 MHz</p> <p>D1 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR231058425 Tester:Len Huang<br/>Date: 6.NOV.2023 16:57:35</p> | <p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz<br/>Att 30 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -31.03 dBm 6.5560 GHz</p> <p>D1 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <p>ProjectNo.:CR231058425 Tester:Len Huang<br/>Date: 6.NOV.2023 16:58:02</p>  |
| Highest | <p>Ref Level 10.00 dBm Offset 11.50 dB RBW 100 kHz<br/>Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep</p> <p>IPk Max M1[1] -46.02 dBm 950.60 MHz</p> <p>D1 -13.000 dBm</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>ProjectNo.:CR231058425 Tester:Len Huang<br/>Date: 6.NOV.2023 16:58:31</p> | <p>Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz<br/>Att 30 dB SWT 76 ms VBW 3 MHz Mode Auto Sweep</p> <p>IPk Max M1[1] -31.38 dBm 6.0590 GHz</p> <p>D1 -13.000 dBm</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <p>ProjectNo.:CR231058425 Tester:Len Huang<br/>Date: 6.NOV.2023 16:58:57</p>  |

Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

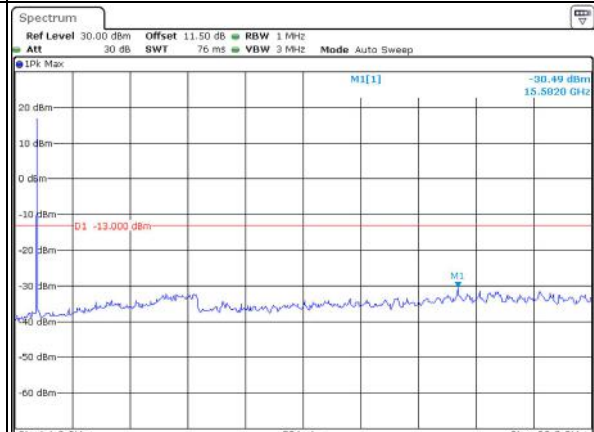
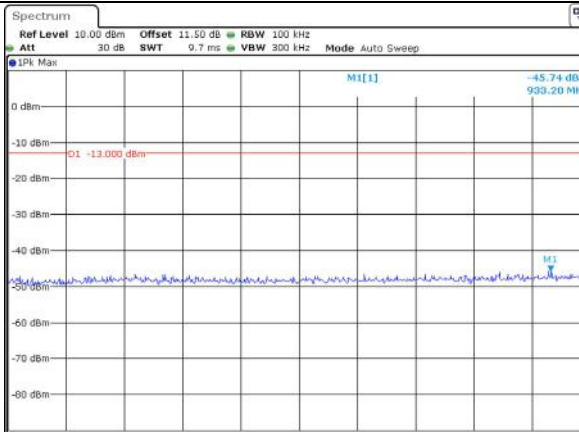
Lowest



ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 16:59:22

ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 16:59:49

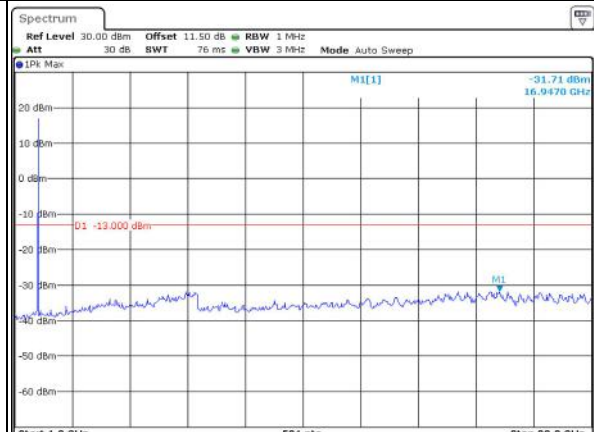
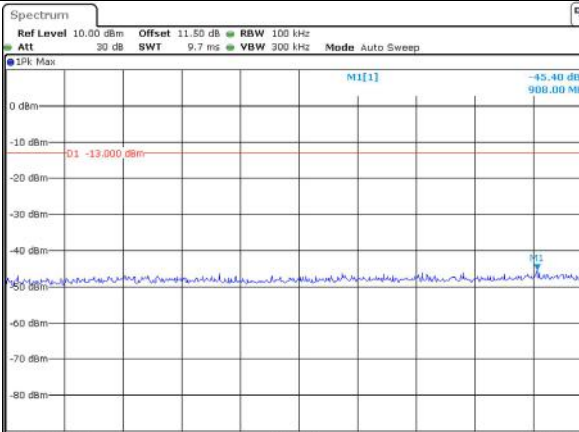
Middle



ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 17:00:15

ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 17:00:41

Highest



ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 17:01:13

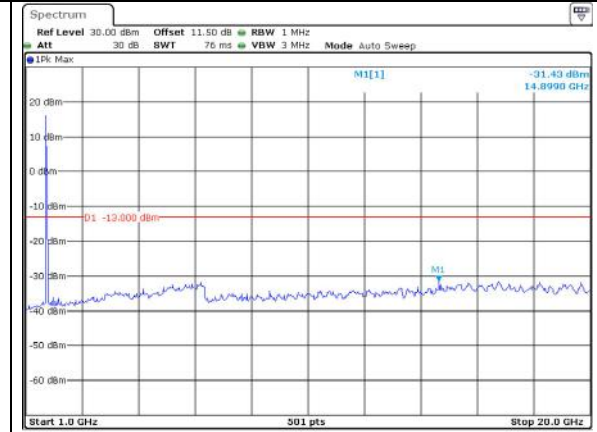
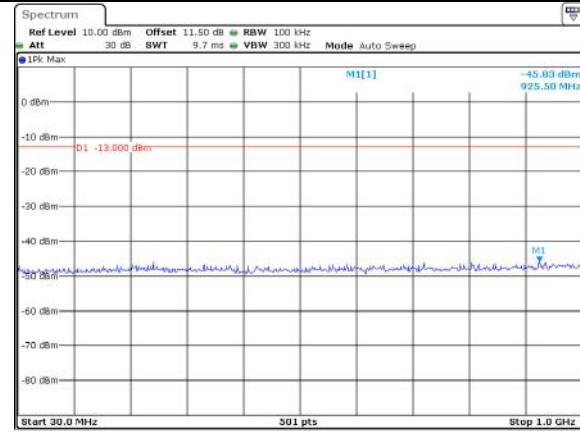
ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 17:01:33

Spurious Emissions at Antenna Terminal

Channel

10MHz Bandwidth QPSK

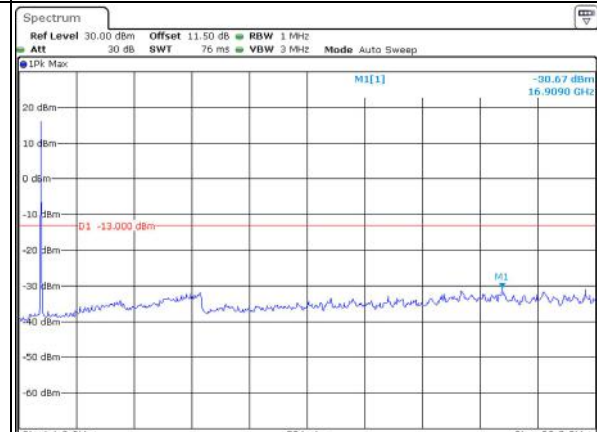
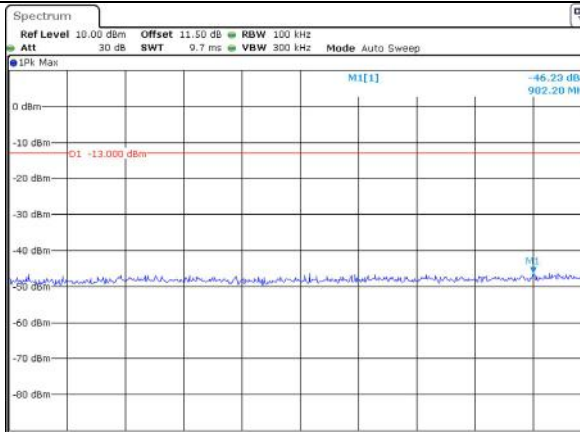
Lowest



ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 17:02:06

ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 17:02:32

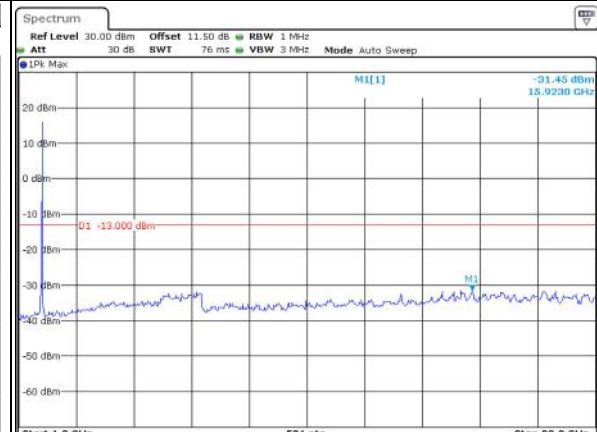
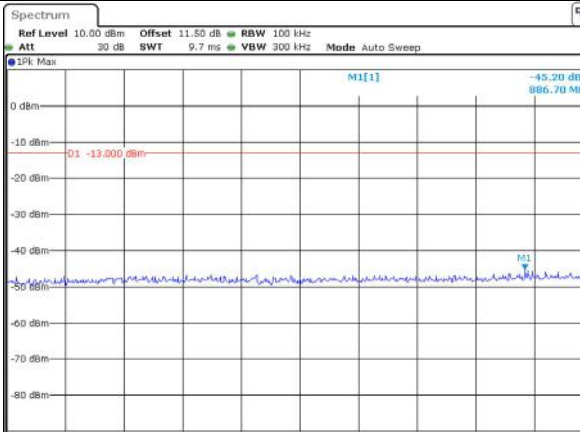
Middle



ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 17:02:58

ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 17:03:21

Highest



ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 17:03:51

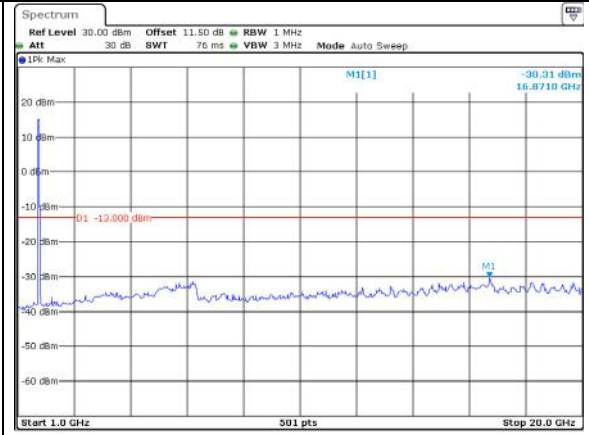
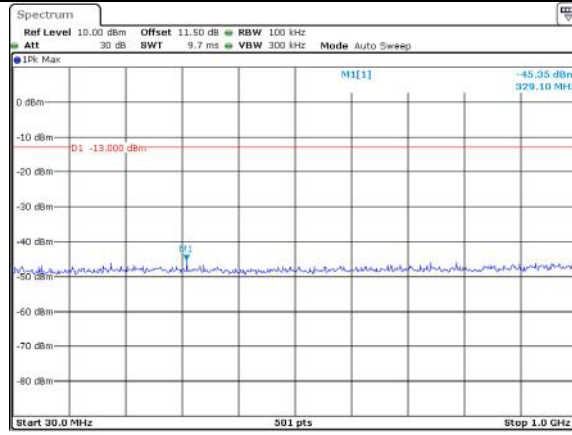
ProjectNo.:CR231058425 Tester:Len Huang  
Date: 6.NOV.2023 17:04:17

**Spurious Emissions at Antenna Terminal**

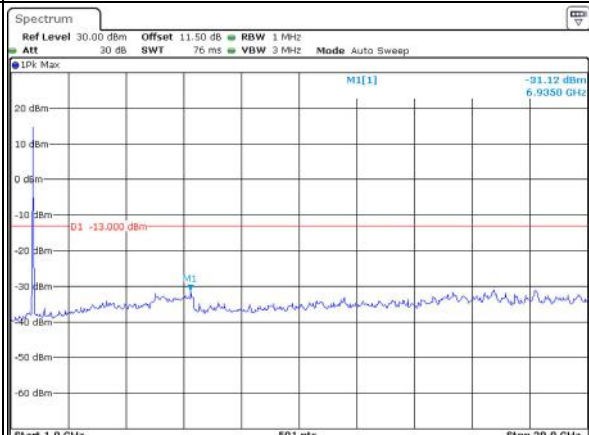
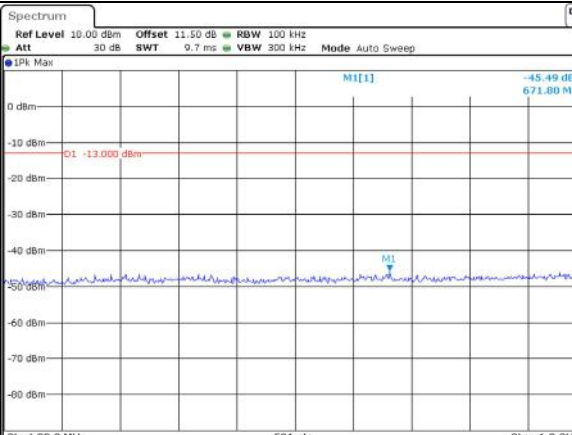
**Channel**

**15MHz Bandwidth QPSK**

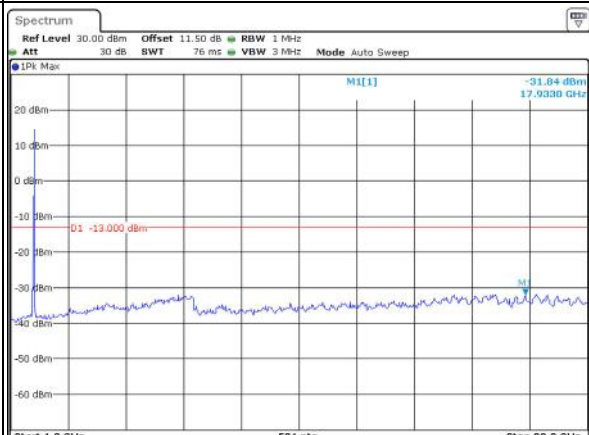
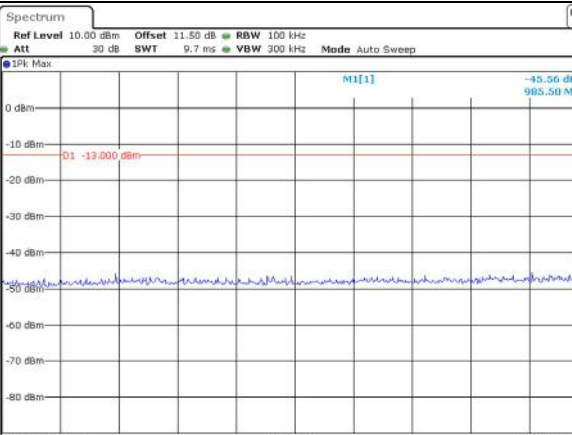
**Lowest**



**Middle**



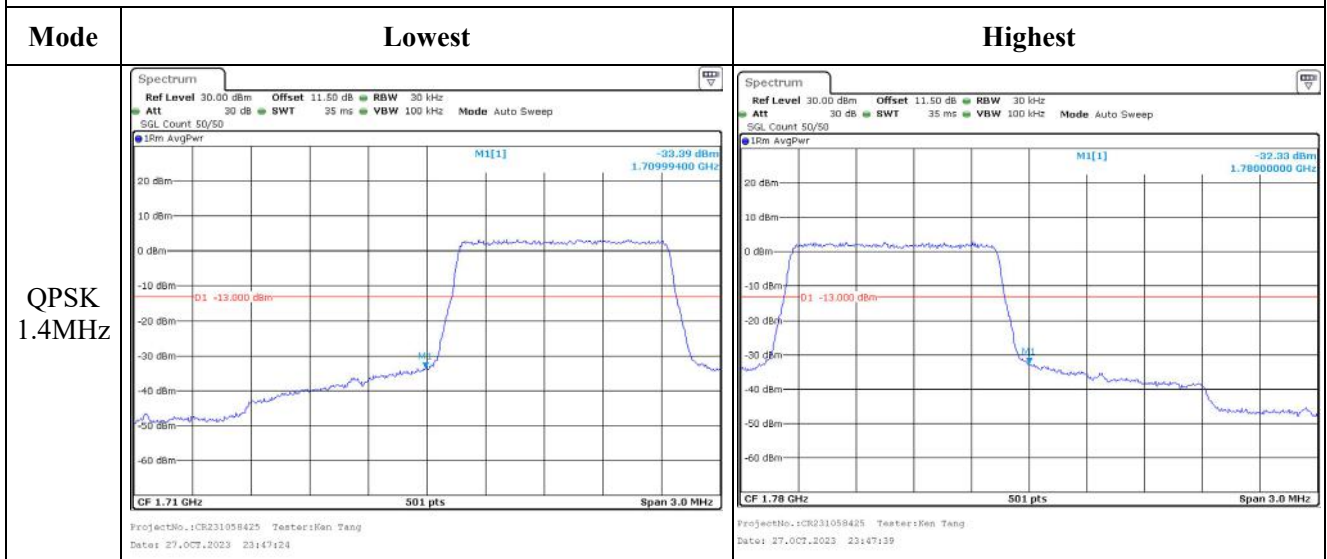
**Highest**



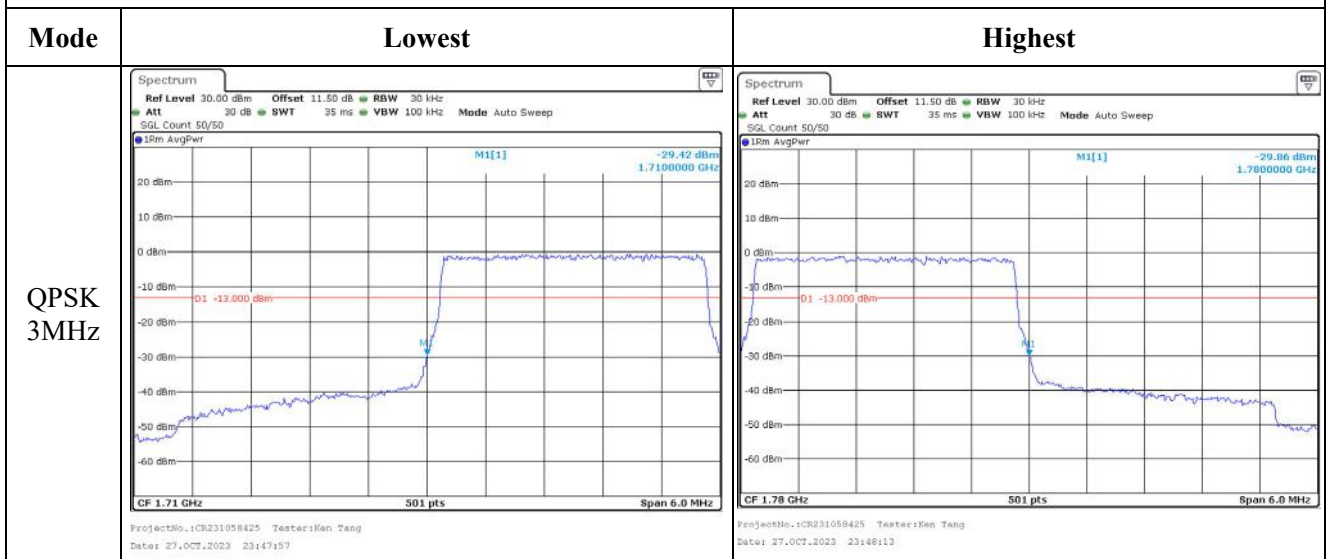
Spurious Emissions at Antenna Terminal

| Channel | 20MHz Bandwidth QPSK   |  |
|---------|--|--|
| Lowest  | <p>ProjectNo.:CR231058425 Tester:Len Huang<br/>Date: 6.NOV.2023 17:07:48</p> | <p>ProjectNo.:CR231058425 Tester:Len Huang<br/>Date: 6.NOV.2023 17:09:11</p> |
| Middle  | <p>ProjectNo.:CR231058425 Tester:Len Huang<br/>Date: 6.NOV.2023 17:08:39</p> | <p>ProjectNo.:CR231058425 Tester:Len Huang<br/>Date: 6.NOV.2023 17:09:11</p> |
| Highest | <p>ProjectNo.:CR231058425 Tester:Len Huang<br/>Date: 6.NOV.2023 17:09:36</p> | <p>ProjectNo.:CR231058425 Tester:Len Huang<br/>Date: 6.NOV.2023 17:10:02</p> |

Out of band emission, Band Edge

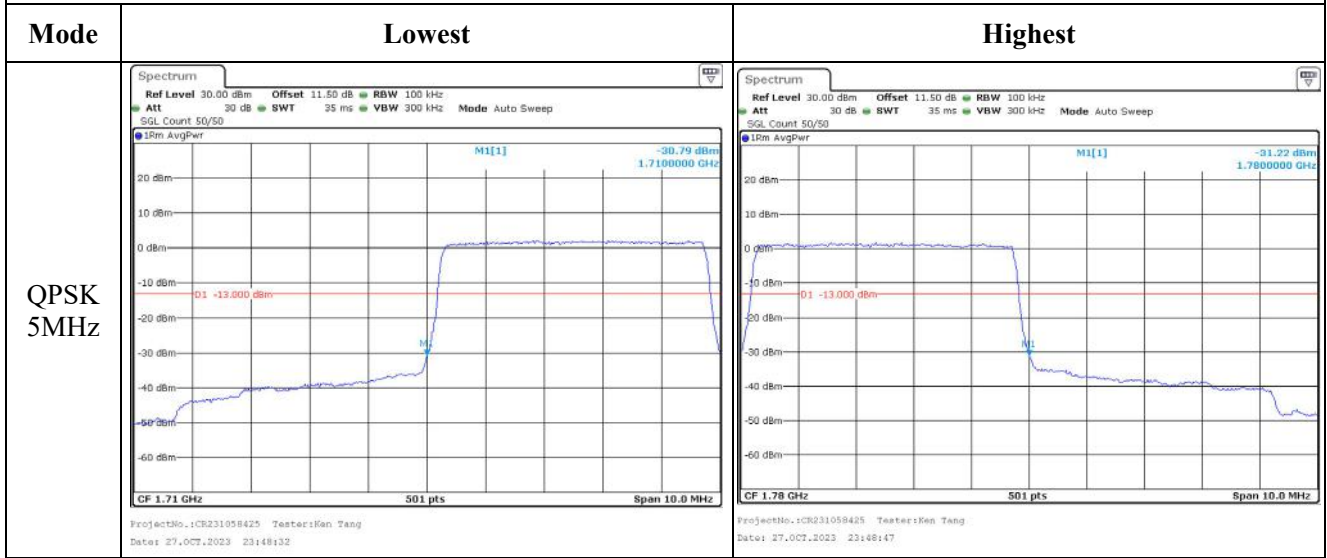


Out of band emission, Band Edge

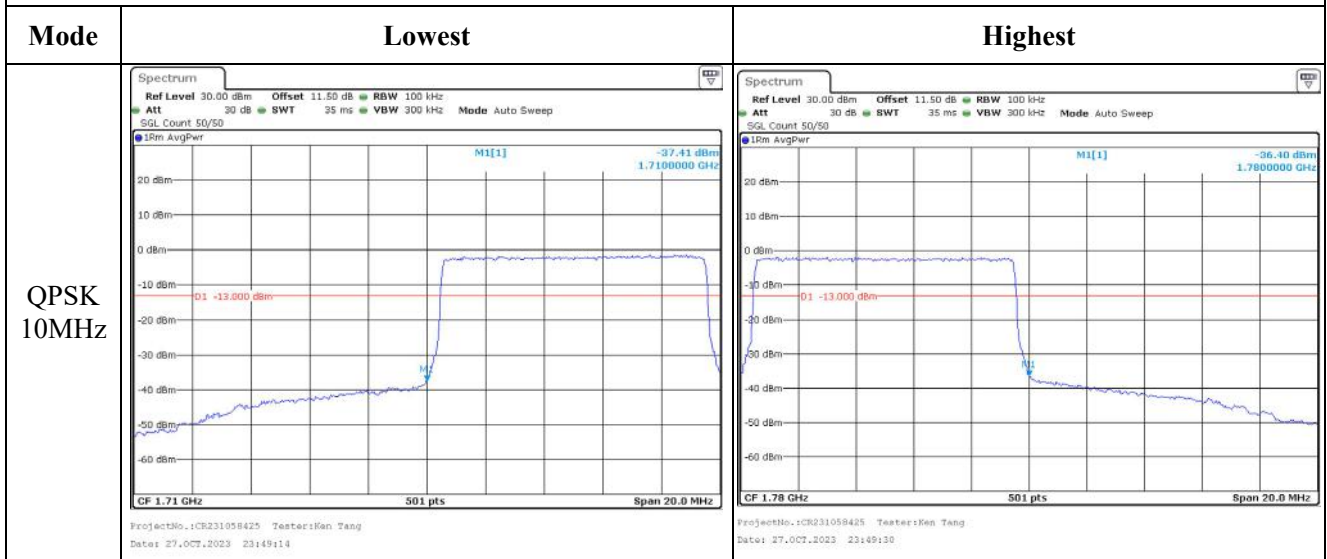




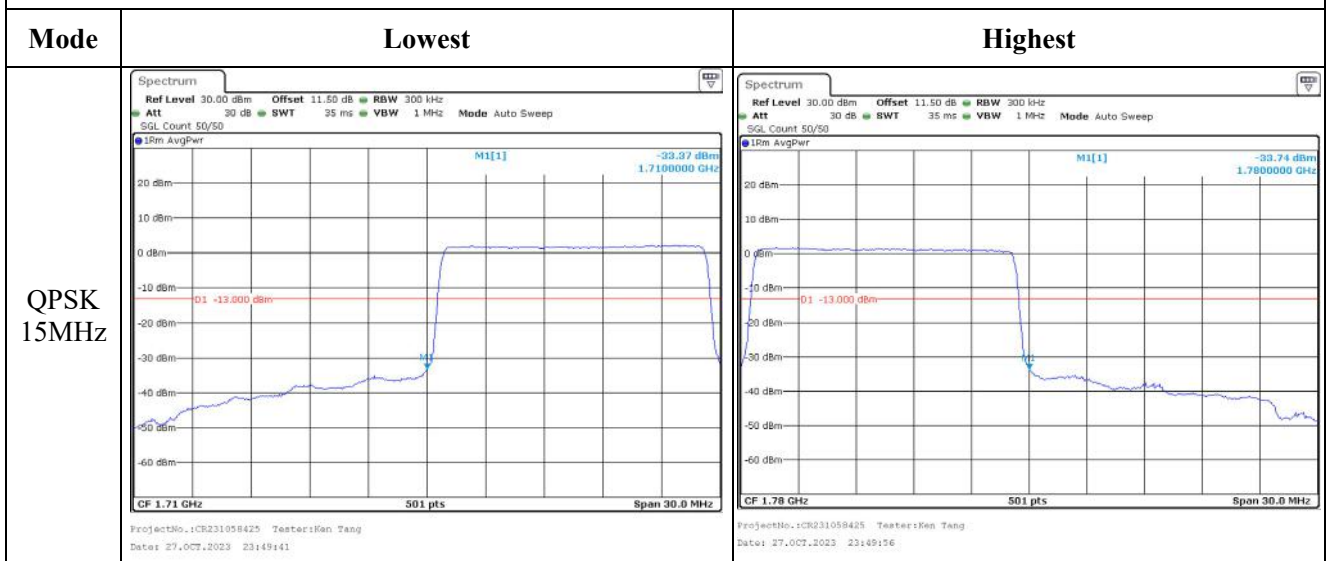
Out of band emission, Band Edge



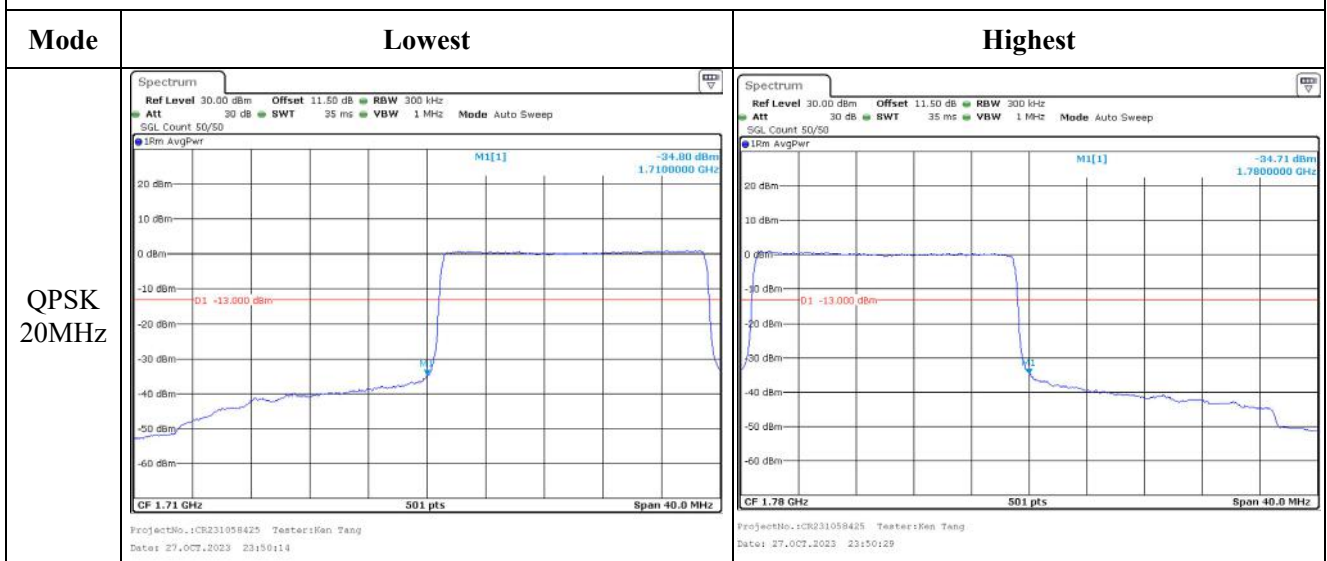
Out of band emission, Band Edge



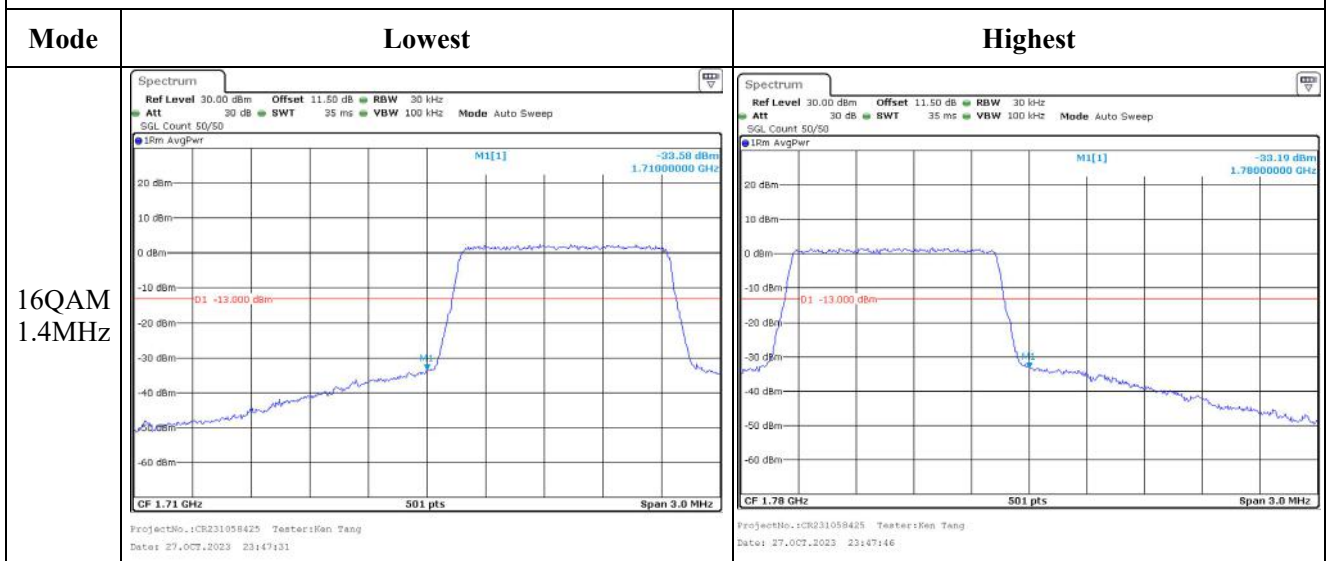
Out of band emission, Band Edge



Out of band emission, Band Edge



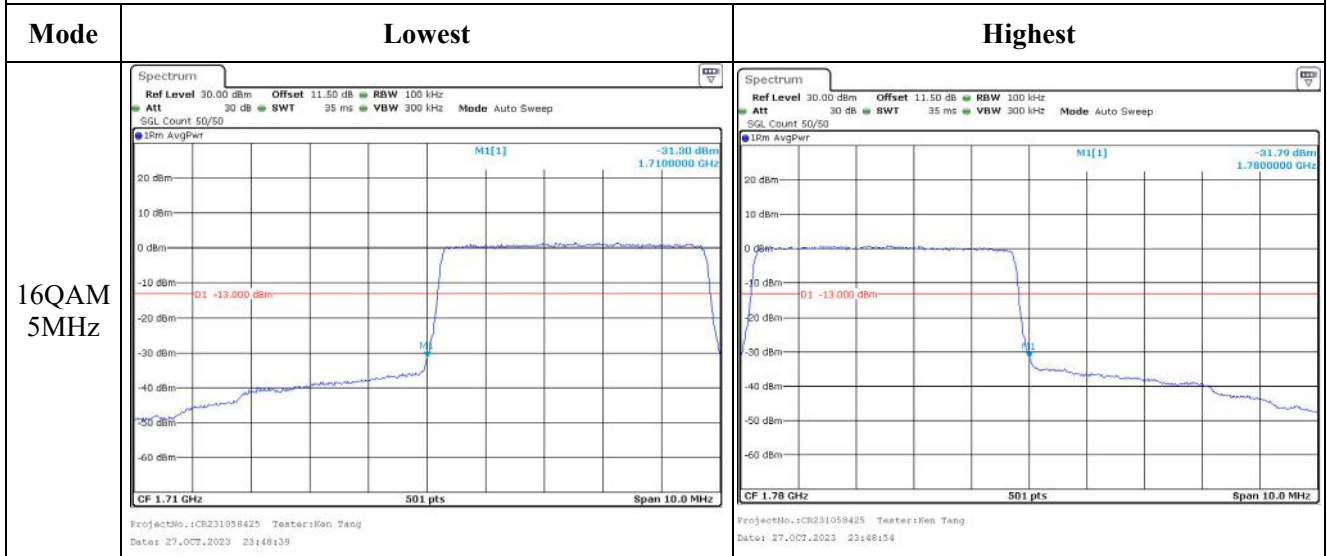
Out of band emission, Band Edge



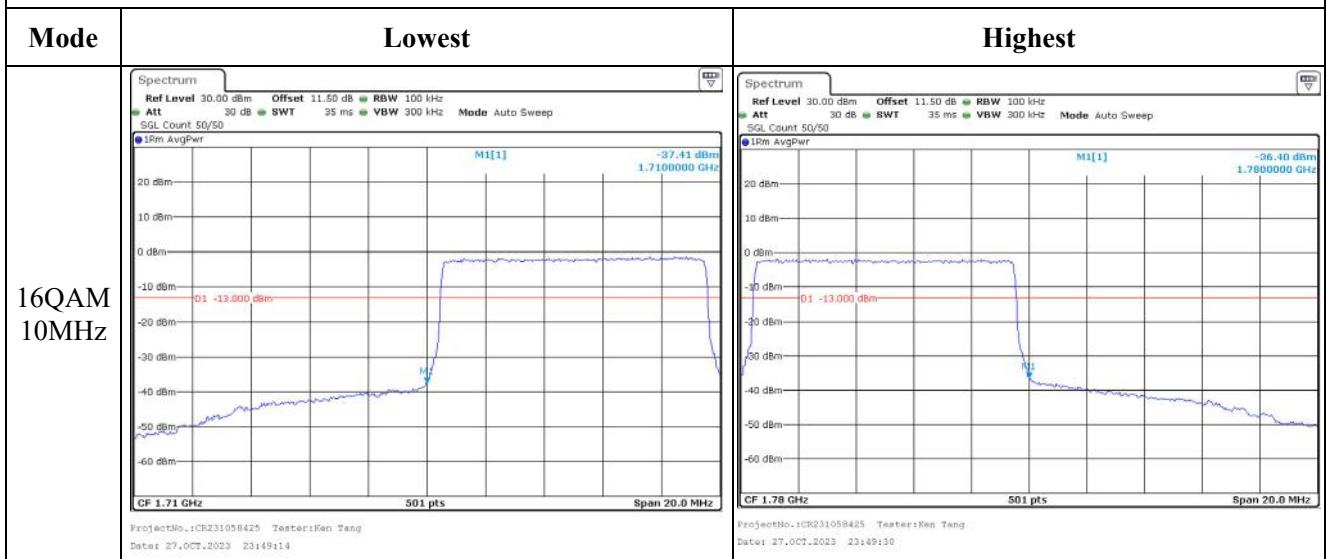
Out of band emission, Band Edge



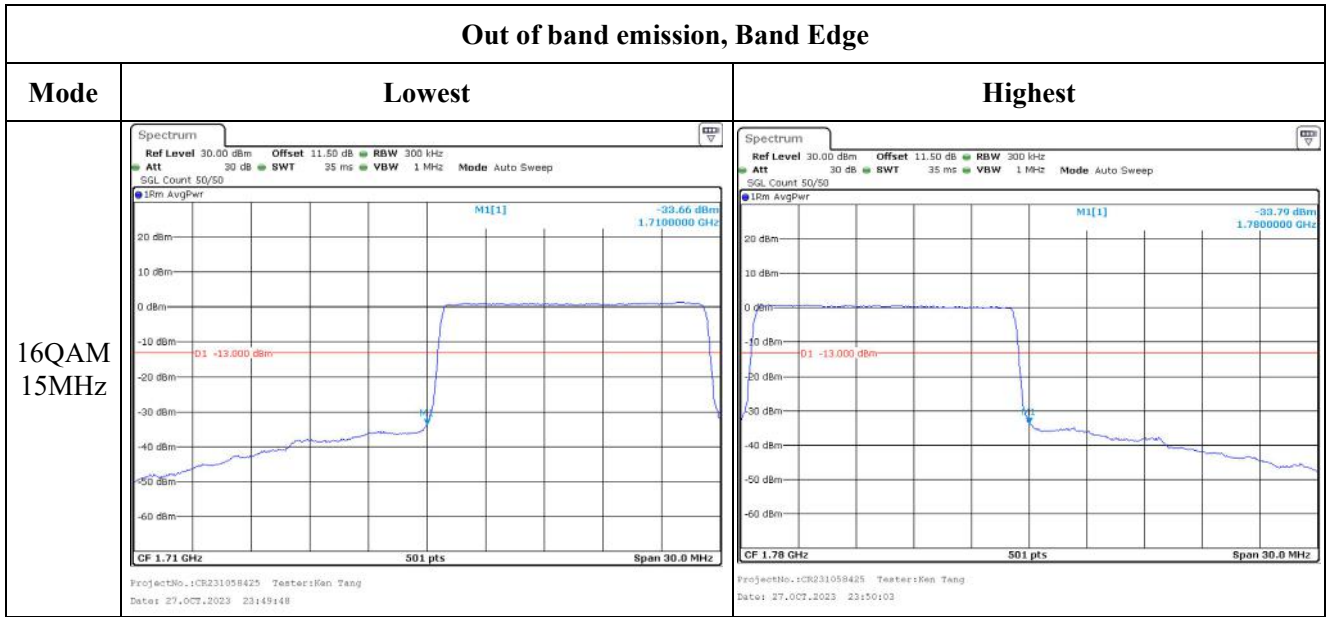
Out of band emission, Band Edge



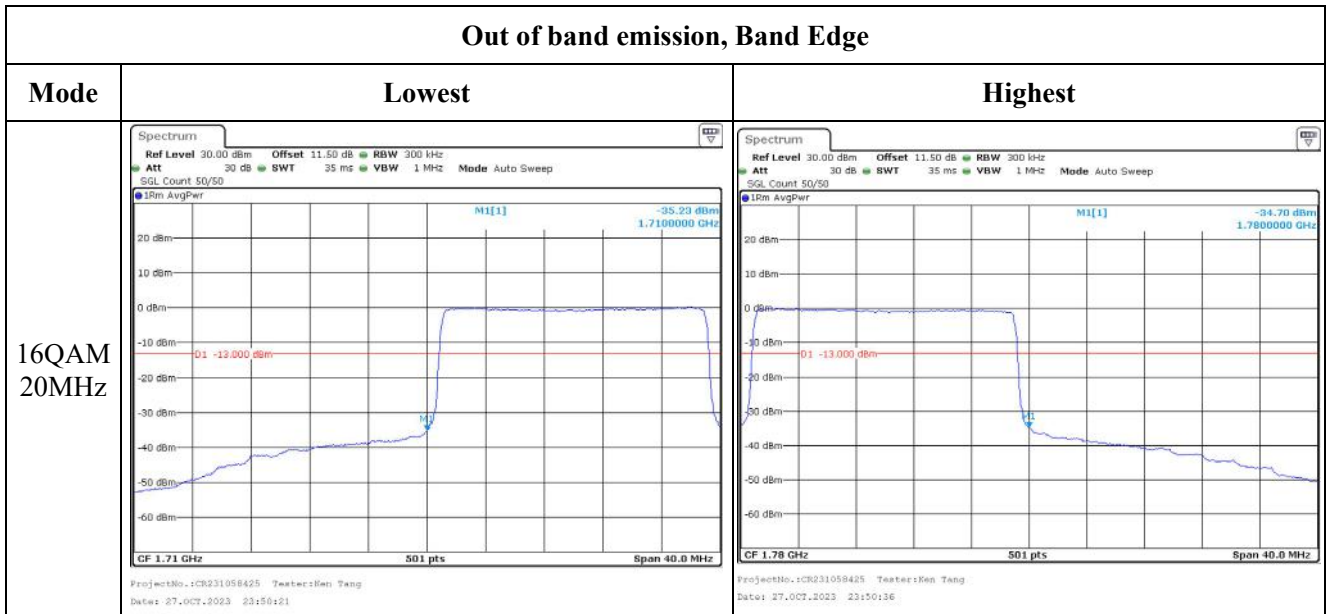
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



**4.19 Radiated Spurious Emissions**

|                |                    |              |                       |
|----------------|--------------------|--------------|-----------------------|
| Serial Number: | 2BYR-5             | Test Date:   | 2023/10/24~2023/10/30 |
| Test Site:     | 966-2,966-1        | Test Mode:   | Transmitting          |
| Tester:        | Carl Xue,Coco Tian | Test Result: | Pass                  |

**Environmental Conditions:**

|                      |           |                           |         |                           |             |
|----------------------|-----------|---------------------------|---------|---------------------------|-------------|
| Temperature:<br>(°C) | 25.4~26.7 | Relative Humidity:<br>(%) | 61.5~67 | ATM<br>Pressure:<br>(kPa) | 100.7~101.1 |
|----------------------|-----------|---------------------------|---------|---------------------------|-------------|

**Test Equipment List and Details:**

| Manufacturer       | Description                        | Model                     | Serial Number | Calibration Date | Calibration Due Date |
|--------------------|------------------------------------|---------------------------|---------------|------------------|----------------------|
| <b>Below 1GHz</b>  |                                    |                           |               |                  |                      |
| Sunol Sciences     | Antenna                            | JB6                       | A082520-6     | 2023/9/18        | 2026/9/17            |
| R&S                | EMI Test Receiver                  | ESR3                      | 102724        | 2023/3/31        | 2024/3/30            |
| TIMES<br>MICROWAVE | Coaxial Cable                      | LMR-600-UltraFlex         | C-0470-02     | 2023/7/16        | 2024/7/15            |
| TIMES<br>MICROWAVE | Coaxial Cable                      | LMR-600-UltraFlex         | C-0780-01     | 2023/7/16        | 2024/7/15            |
| Sonoma             | Amplifier                          | 310N                      | 186165        | 2023/7/16        | 2024/7/15            |
| EMCO               | Adjustable Dipole<br>Antenna       | 3121C                     | 9109-756      | N/A              | N/A                  |
| MICRO-COAX         | Coaxial Cable                      | UFA210B-0-0720-<br>300300 | 99G1448       | 2023/7/16        | 2024/7/15            |
| Agilent            | Signal Generator                   | E8247C                    | MY43321352    | 2022/11/18       | 2023/11/17           |
| <b>Above 1GHz</b>  |                                    |                           |               |                  |                      |
| AH                 | Double Ridge Guide<br>Horn Antenna | SAS-571                   | 1394          | 2023/2/22        | 2026/2/21            |
| R&S                | Spectrum Analyzer                  | FSV40                     | 101591        | 2023/3/31        | 2024/3/30            |
| MICRO-COAX         | Coaxial Cable                      | UFA210A-1-1200-<br>70U300 | 217423-008    | 2023/8/6         | 2024/8/5             |
| MICRO-COAX         | Coaxial Cable                      | UFA210A-1-2362-<br>300300 | 235780-001    | 2023/8/6         | 2024/8/5             |
| Mini               | Pre-amplifier                      | ZVA-183-S+                | 5969001149    | 2022/11/9        | 2023/11/8            |
| AH                 | Double Ridge Guide<br>Horn Antenna | SAS-571                   | 1396          | 2021/10/18       | 2024/10/17           |
| MICRO-COAX         | Coaxial Cable                      | UFA210B-0-0720-<br>300300 | 99G1448       | 2023/7/16        | 2024/7/15            |
| Agilent            | Signal Generator                   | E8247C                    | MY43321352    | 2022/11/18       | 2023/11/17           |
| PASTERNAK          | Horn Antenna                       | PE9852/2F-20              | 112002        | 2021/2/5         | 2024/2/4             |
| PASTERNAK          | Horn Antenna                       | PE9852/2F-20              | 112001        | 2021/2/5         | 2024/2/4             |
| Quinstar           | Preamplifier                       | QLW-18405536-JO           | 15964001005   | 2023/9/15        | 2024/9/14            |
| PASTERNAK          | Horn Antenna                       | PE9850/2F-20              | 072001        | 2021/2/5         | 2024/2/4             |
| PASTERNAK          | Horn Antenna                       | PE9850/2F-20              | 072002        | 2021/2/5         | 2024/2/4             |
| MICRO-COAX         | Coaxial Cable                      | UFB142A-1-2362-<br>200200 | 235772-001    | 2023/8/6         | 2024/8/5             |

**\* Statement of Traceability:** China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Data:**

Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

**Cellular Band (30MHz-10GHz)**

| Frequency (MHz)            | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|----------------------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                            |             |                         | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| GSM 850 Frequency:824.2MHz |             |                         |                         |                        |                 |                      |             |             |
| 704.22                     | H           | 20.79                   | -52.44                  | 0.00                   | 0.55            | -52.99               | -13.00      | 39.99       |
| 675.38                     | V           | 20.66                   | -49.71                  | 0.00                   | 0.50            | -50.21               | -13.00      | 37.21       |
| 1648.400                   | H           | 50.65                   | -53.68                  | 8.68                   | 0.80            | -45.80               | -13.00      | 32.80       |
| 1648.400                   | V           | 48.63                   | -55.78                  | 8.68                   | 0.80            | -47.90               | -13.00      | 34.90       |
| 2472.600                   | H           | 56.21                   | -44.57                  | 9.38                   | 1.00            | -36.19               | -13.00      | 23.19       |
| 2472.600                   | V           | 55.29                   | -45.44                  | 9.38                   | 1.00            | -37.06               | -13.00      | 24.06       |
| 3296.800                   | H           | 46.51                   | -50.17                  | 10.32                  | 1.15            | -41.00               | -13.00      | 28.00       |
| 3296.800                   | V           | 46.36                   | -50.08                  | 10.32                  | 1.15            | -40.91               | -13.00      | 27.91       |
| GSM 850 Frequency:836.6MHz |             |                         |                         |                        |                 |                      |             |             |
| 651.99                     | H           | 20.94                   | -52.64                  | 0.00                   | 0.52            | -53.16               | -13.00      | 40.16       |
| 726.75                     | V           | 20.84                   | -48.50                  | 0.00                   | 0.52            | -49.02               | -13.00      | 36.02       |
| 1673.200                   | H           | 50.79                   | -53.52                  | 8.71                   | 0.85            | -45.66               | -13.00      | 32.66       |
| 1673.200                   | V           | 51.78                   | -52.63                  | 8.71                   | 0.85            | -44.77               | -13.00      | 31.77       |
| 2509.800                   | H           | 61.32                   | -39.29                  | 9.42                   | 1.01            | -30.88               | -13.00      | 17.88       |
| 2509.800                   | V           | 61.94                   | -38.68                  | 9.42                   | 1.01            | -30.27               | -13.00      | 17.27       |
| 3346.400                   | H           | 46.51                   | -50.66                  | 10.34                  | 1.16            | -41.48               | -13.00      | 28.48       |
| 3346.400                   | V           | 46.08                   | -50.95                  | 10.34                  | 1.16            | -41.77               | -13.00      | 28.77       |
| GSM 850 Frequency:848.8MHz |             |                         |                         |                        |                 |                      |             |             |
| 714.16                     | H           | 20.85                   | -52.18                  | 0.00                   | 0.50            | -52.68               | -13.00      | 39.68       |
| 701.73                     | V           | 20.71                   | -49.17                  | 0.00                   | 0.55            | -49.72               | -13.00      | 36.72       |
| 1697.600                   | H           | 60.06                   | -44.23                  | 8.74                   | 0.90            | -36.39               | -13.00      | 23.39       |
| 1697.600                   | V           | 59.24                   | -45.18                  | 8.74                   | 0.90            | -37.34               | -13.00      | 24.34       |
| 2546.400                   | H           | 64.37                   | -35.96                  | 9.47                   | 1.01            | -27.50               | -13.00      | 14.50       |
| 2546.400                   | V           | 65.64                   | -34.64                  | 9.47                   | 1.01            | -26.18               | -13.00      | 13.18       |
| 3395.200                   | H           | 65.44                   | -32.25                  | 10.36                  | 1.19            | -23.08               | -13.00      | 10.08       |
| 3395.200                   | V           | 66.42                   | -31.24                  | 10.36                  | 1.19            | -22.07               | -13.00      | 9.07        |

**PCS Band (30MHz-20GHz)**

| Frequency (MHz)              | Polar (H/V) | Receiver Reading (dB $\mu$ V) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|------------------------------|-------------|-------------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                              |             |                               | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| GSM 1900 Frequency:1850.2MHz |             |                               |                         |                        |                 |                      |             |             |
| 250.30                       | H           | 33.21                         | -78.68                  | 0.00                   | 0.30            | -78.98               | -13.00      | 65.98       |
| 44.73                        | V           | 36.32                         | -59.63                  | -20.16                 | 0.12            | -79.91               | -13.00      | 66.91       |
| 3700.400                     | H           | 45.72                         | -51.60                  | 10.60                  | 1.25            | -42.25               | -13.00      | 29.25       |
| 3700.400                     | V           | 45.84                         | -51.46                  | 10.60                  | 1.25            | -42.11               | -13.00      | 29.11       |
| 5550.600                     | H           | 45.62                         | -47.64                  | 11.44                  | 1.49            | -37.69               | -13.00      | 24.69       |
| 5550.600                     | V           | 45.53                         | -47.57                  | 11.44                  | 1.49            | -37.62               | -13.00      | 24.62       |
| GSM 1900 Frequency:1880MHz   |             |                               |                         |                        |                 |                      |             |             |
| 270.37                       | H           | 33.80                         | -77.62                  | 0.00                   | 0.31            | -77.93               | -13.00      | 64.93       |
| 38.34                        | V           | 35.66                         | -52.54                  | -25.60                 | 0.11            | -78.25               | -13.00      | 65.25       |
| 3760.000                     | H           | 45.81                         | -50.60                  | 10.66                  | 1.24            | -41.18               | -13.00      | 28.18       |
| 3760.000                     | V           | 46.13                         | -50.16                  | 10.66                  | 1.24            | -40.74               | -13.00      | 27.74       |
| 5640.000                     | H           | 45.49                         | -47.96                  | 11.33                  | 1.54            | -38.17               | -13.00      | 25.17       |
| 5640.000                     | V           | 45.87                         | -47.46                  | 11.33                  | 1.54            | -37.67               | -13.00      | 24.67       |
| GSM 1900 Frequency:1909.8MHz |             |                               |                         |                        |                 |                      |             |             |
| 252.96                       | H           | 33.18                         | -78.65                  | 0.00                   | 0.30            | -78.95               | -13.00      | 65.95       |
| 39.71                        | V           | 35.54                         | -54.00                  | -26.26                 | 0.11            | -80.37               | -13.00      | 67.37       |
| 3819.600                     | H           | 46.59                         | -49.27                  | 10.72                  | 1.29            | -39.84               | -13.00      | 26.84       |
| 3819.600                     | V           | 45.72                         | -50.00                  | 10.72                  | 1.29            | -40.57               | -13.00      | 27.57       |
| 5729.400                     | H           | 45.97                         | -47.51                  | 11.22                  | 1.59            | -37.88               | -13.00      | 24.88       |
| 5729.400                     | V           | 45.42                         | -47.94                  | 11.22                  | 1.59            | -38.31               | -13.00      | 25.31       |



**WCDMA Band 2(30MHz-20GHz):**

| Frequency (MHz)                     | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                                     |             |                         | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| WCDMA Band II, Frequency:1852.4 MHz |             |                         |                         |                        |                 |                      |             |             |
| 269.42                              | H           | 33.69                   | -77.75                  | 0.00                   | 0.31            | -78.06               | -13.00      | 65.06       |
| 44.74                               | V           | 35.81                   | -60.15                  | -20.14                 | 0.12            | -80.41               | -13.00      | 67.41       |
| 3704.800                            | H           | 45.61                   | -51.65                  | 10.60                  | 1.25            | -42.30               | -13.00      | 29.30       |
| 3704.800                            | V           | 45.67                   | -51.56                  | 10.60                  | 1.25            | -42.21               | -13.00      | 29.21       |
| 5557.200                            | H           | 48.14                   | -45.14                  | 11.43                  | 1.49            | -35.20               | -13.00      | 22.20       |
| 5557.200                            | V           | 47.83                   | -45.30                  | 11.43                  | 1.49            | -35.36               | -13.00      | 22.36       |
| WCDMA Band II, Frequency:1880 MHz   |             |                         |                         |                        |                 |                      |             |             |
| 255.63                              | H           | 33.52                   | -78.25                  | 0.00                   | 0.30            | -78.55               | -13.00      | 65.55       |
| 38.21                               | V           | 35.68                   | -52.39                  | -25.54                 | 0.11            | -78.04               | -13.00      | 65.04       |
| 3760.000                            | H           | 46.26                   | -50.15                  | 10.66                  | 1.24            | -40.73               | -13.00      | 27.73       |
| 3760.000                            | V           | 47.15                   | -49.14                  | 10.66                  | 1.24            | -39.72               | -13.00      | 26.72       |
| 5640.000                            | H           | 47.39                   | -46.06                  | 11.33                  | 1.54            | -36.27               | -13.00      | 23.27       |
| 5640.000                            | V           | 48.71                   | -44.62                  | 11.33                  | 1.54            | -34.83               | -13.00      | 21.83       |
| WCDMA Band II, Frequency:1907.6MHz  |             |                         |                         |                        |                 |                      |             |             |
| 278.05                              | H           | 33.38                   | -77.86                  | 0.00                   | 0.32            | -78.18               | -13.00      | 65.18       |
| 68.12                               | V           | 35.40                   | -67.85                  | -6.00                  | 0.15            | -74.00               | -13.00      | 61.00       |
| 3815.200                            | H           | 46.27                   | -49.58                  | 10.72                  | 1.29            | -40.15               | -13.00      | 27.15       |
| 3815.200                            | V           | 46.41                   | -49.28                  | 10.72                  | 1.29            | -39.85               | -13.00      | 26.85       |
| 5722.800                            | H           | 50.28                   | -43.21                  | 11.23                  | 1.58            | -33.56               | -13.00      | 20.56       |
| 5722.800                            | V           | 51.65                   | -41.70                  | 11.23                  | 1.58            | -32.05               | -13.00      | 19.05       |

**WCDMA Band 4(30MHz-20GHz):**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                 |             |                         | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| Frequency:      |             |                         | 1712.4                  | MHz                    |                 |                      |             |             |
| 97.55           | H           | 33.57                   | -78.96                  | 0.00                   | 0.19            | -79.15               | -13.00      | 66.15       |
| 45.21           | V           | 35.80                   | -60.71                  | -19.59                 | 0.12            | -80.42               | -13.00      | 67.42       |
| 3424.800        | H           | 46.52                   | -51.25                  | 10.37                  | 1.17            | -42.05               | -13.00      | 29.05       |
| 3424.800        | V           | 46.37                   | -51.37                  | 10.37                  | 1.17            | -42.17               | -13.00      | 29.17       |
| 5137.200        | H           | 46.71                   | -46.91                  | 11.28                  | 1.46            | -37.09               | -13.00      | 24.09       |
| 5137.200        | V           | 47.29                   | -46.21                  | 11.28                  | 1.46            | -36.39               | -13.00      | 23.39       |
| Frequency:      |             |                         | 1732.6                  | MHz                    |                 |                      |             |             |
| 105.04          | H           | 33.94                   | -78.36                  | 0.00                   | 0.19            | -78.55               | -13.00      | 65.55       |
| 43.05           | V           | 35.64                   | -58.13                  | -22.37                 | 0.12            | -80.62               | -13.00      | 67.62       |
| 3465.200        | H           | 46.23                   | -51.58                  | 10.39                  | 1.15            | -42.34               | -13.00      | 29.34       |
| 3465.200        | V           | 46.08                   | -51.69                  | 10.39                  | 1.15            | -42.45               | -13.00      | 29.45       |
| 5197.800        | H           | 46.47                   | -47.66                  | 11.32                  | 1.44            | -37.78               | -13.00      | 24.78       |
| 5197.800        | V           | 47.56                   | -46.42                  | 11.32                  | 1.44            | -36.54               | -13.00      | 23.54       |
| Frequency:      |             |                         | 1752.6                  | MHz                    |                 |                      |             |             |
| 273.23          | H           | 33.59                   | -77.76                  | 0.00                   | 0.32            | -78.08               | -13.00      | 65.08       |
| 39.72           | V           | 35.91                   | -53.64                  | -26.27                 | 0.11            | -80.02               | -13.00      | 67.02       |
| 3505.200        | H           | 46.76                   | -51.07                  | 10.41                  | 1.18            | -41.84               | -13.00      | 28.84       |
| 3505.200        | V           | 46.48                   | -51.29                  | 10.41                  | 1.18            | -42.06               | -13.00      | 29.06       |
| 5257.800        | H           | 46.82                   | -46.91                  | 11.35                  | 1.47            | -37.03               | -13.00      | 24.03       |
| 5257.800        | V           | 46.51                   | -47.00                  | 11.35                  | 1.47            | -37.12               | -13.00      | 24.12       |

**WCDMA Band 5(30MHz-10GHz):**

| Frequency (MHz)                  | Polar (H/V) | Receiver Reading (dB $\mu$ V) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|----------------------------------|-------------|-------------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                                  |             |                               | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| WCDMA Band 5 Frequency:826.4 MHz |             |                               |                         |                        |                 |                      |             |             |
| 724.37                           | H           | 20.93                         | -51.90                  | 0.00                   | 0.51            | -52.41               | -13.00      | 39.41       |
| 716.64                           | V           | 20.65                         | -48.91                  | 0.00                   | 0.50            | -49.41               | -13.00      | 36.41       |
| 1652.800                         | H           | 54.15                         | -50.18                  | 8.68                   | 0.81            | -42.31               | -13.00      | 29.31       |
| 1652.800                         | V           | 53.43                         | -50.98                  | 8.68                   | 0.81            | -43.11               | -13.00      | 30.11       |
| 2479.200                         | H           | 48.26                         | -52.50                  | 9.39                   | 1.01            | -44.12               | -13.00      | 31.12       |
| 2479.200                         | V           | 49.42                         | -51.31                  | 9.39                   | 1.01            | -42.93               | -13.00      | 29.93       |
| 3305.600                         | H           | 45.31                         | -51.42                  | 10.32                  | 1.15            | -42.25               | -13.00      | 29.25       |
| 3305.600                         | V           | 46.35                         | -50.15                  | 10.32                  | 1.15            | -40.98               | -13.00      | 27.98       |
| WCDMA Band 5 Frequency:836.6MHz  |             |                               |                         |                        |                 |                      |             |             |
| 711.79                           | H           | 20.75                         | -52.33                  | 0.00                   | 0.51            | -52.84               | -13.00      | 39.84       |
| 636.17                           | V           | 20.81                         | -50.27                  | 0.00                   | 0.52            | -50.79               | -13.00      | 37.79       |
| 1673.200                         | H           | 54.45                         | -49.86                  | 8.71                   | 0.85            | -42.00               | -13.00      | 29.00       |
| 1673.200                         | V           | 54.67                         | -49.74                  | 8.71                   | 0.85            | -41.88               | -13.00      | 28.88       |
| 2509.800                         | H           | 51.58                         | -49.03                  | 9.42                   | 1.01            | -40.62               | -13.00      | 27.62       |
| 2509.800                         | V           | 52.09                         | -48.53                  | 9.42                   | 1.01            | -40.12               | -13.00      | 27.12       |
| 3346.400                         | H           | 46.13                         | -51.04                  | 10.34                  | 1.16            | -41.86               | -13.00      | 28.86       |
| 3346.400                         | V           | 46.37                         | -50.66                  | 10.34                  | 1.16            | -41.48               | -13.00      | 28.48       |
| WCDMA Band 5 Frequency:846.6MHz  |             |                               |                         |                        |                 |                      |             |             |
| 658.99                           | H           | 20.64                         | -52.90                  | 0.00                   | 0.51            | -53.41               | -13.00      | 40.41       |
| 721.68                           | V           | 20.92                         | -48.53                  | 0.00                   | 0.50            | -49.03               | -13.00      | 36.03       |
| 1693.200                         | H           | 58.93                         | -45.37                  | 8.73                   | 0.89            | -37.53               | -13.00      | 24.53       |
| 1693.200                         | V           | 57.25                         | -47.17                  | 8.73                   | 0.89            | -39.33               | -13.00      | 26.33       |
| 2539.800                         | H           | 52.71                         | -47.67                  | 9.46                   | 1.01            | -39.22               | -13.00      | 26.22       |
| 2539.800                         | V           | 51.26                         | -49.08                  | 9.46                   | 1.01            | -40.63               | -13.00      | 27.63       |
| 3386.400                         | H           | 45.21                         | -52.38                  | 10.35                  | 1.18            | -43.21               | -13.00      | 30.21       |
| 3386.400                         | V           | 45.29                         | -52.25                  | 10.35                  | 1.18            | -43.08               | -13.00      | 30.08       |

**LTE Bands:**

(The Worst modulation and bandwidth was below)

**LTE Band 2(30MHz-20GHz):**

| Frequency (MHz)                    | Polar (H/V) | Receiver Reading (dB $\mu$ V) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|------------------------------------|-------------|-------------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                                    |             |                               | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| QPSK, 1.4MHz, Frequency:1850.7 MHz |             |                               |                         |                        |                 |                      |             |             |
| 252.94                             | H           | 34.67                         | -77.16                  | 0.00                   | 0.30            | -77.46               | -13.00      | 64.46       |
| 46.34                              | V           | 36.52                         | -61.10                  | -18.49                 | 0.12            | -79.71               | -13.00      | 66.71       |
| 3701.400                           | H           | 45.98                         | -51.33                  | 10.60                  | 1.25            | -41.98               | -13.00      | 28.98       |
| 3701.400                           | V           | 46.49                         | -50.80                  | 10.60                  | 1.25            | -41.45               | -13.00      | 28.45       |
| 5552.100                           | H           | 53.17                         | -40.10                  | 11.44                  | 1.49            | -30.15               | -13.00      | 17.15       |
| 5552.100                           | V           | 52.03                         | -41.07                  | 11.44                  | 1.49            | -31.12               | -13.00      | 18.12       |
| QPSK, 1.4MHz, Frequency:1880 MHz   |             |                               |                         |                        |                 |                      |             |             |
| 105.27                             | H           | 35.24                         | -77.06                  | 0.00                   | 0.19            | -77.25               | -13.00      | 64.25       |
| 68.39                              | V           | 35.70                         | -67.46                  | -5.85                  | 0.15            | -73.46               | -13.00      | 60.46       |
| 3760.000                           | H           | 46.57                         | -49.84                  | 10.66                  | 1.24            | -40.42               | -13.00      | 27.42       |
| 3760.000                           | V           | 46.83                         | -49.46                  | 10.66                  | 1.24            | -40.04               | -13.00      | 27.04       |
| 5640.000                           | H           | 53.86                         | -39.59                  | 11.33                  | 1.54            | -29.80               | -13.00      | 16.80       |
| 5640.000                           | V           | 54.67                         | -38.66                  | 11.33                  | 1.54            | -28.87               | -13.00      | 15.87       |
| QPSK, 1.4MHz, Frequency:1909.3 MHz |             |                               |                         |                        |                 |                      |             |             |
| 253.83                             | H           | 34.63                         | -77.18                  | 0.00                   | 0.30            | -77.48               | -13.00      | 64.48       |
| 44.14                              | V           | 35.66                         | -59.53                  | -20.94                 | 0.12            | -80.59               | -13.00      | 67.59       |
| 3818.600                           | H           | 46.34                         | -49.52                  | 10.72                  | 1.29            | -40.09               | -13.00      | 27.09       |
| 3818.600                           | V           | 46.13                         | -49.58                  | 10.72                  | 1.29            | -40.15               | -13.00      | 27.15       |
| 5727.900                           | H           | 57.29                         | -36.19                  | 11.23                  | 1.59            | -26.55               | -13.00      | 13.55       |
| 5727.900                           | V           | 58.81                         | -34.55                  | 11.23                  | 1.59            | -24.91               | -13.00      | 11.91       |

**LTE Band 4(30MHz-20GHz):**

| Frequency (MHz)         | Polar (H/V) | Receiver Reading (dB $\mu$ V) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------|-------------|-------------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                         |             |                               | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| 1.4MHz QPSK, Frequency: |             |                               | 1710.7                  | MHz                    |                 |                      |             |             |
| 104.90                  | H           | 34.64                         | -77.66                  | 0.00                   | 0.19            | -77.85               | -13.00      | 64.85       |
| 43.65                   | V           | 35.82                         | -58.73                  | -21.58                 | 0.12            | -80.43               | -13.00      | 67.43       |
| 3421.400                | H           | 46.15                         | -51.61                  | 10.37                  | 1.17            | -42.41               | -13.00      | 29.41       |
| 3421.400                | V           | 46.46                         | -51.27                  | 10.37                  | 1.17            | -42.07               | -13.00      | 29.07       |
| 5132.100                | H           | 48.34                         | -45.23                  | 11.28                  | 1.47            | -35.42               | -13.00      | 22.42       |
| 5132.100                | V           | 47.62                         | -45.84                  | 11.28                  | 1.47            | -36.03               | -13.00      | 23.03       |
| 1.4MHz QPSK, Frequency: |             |                               | 1732.5                  | MHz                    |                 |                      |             |             |
| 102.04                  | H           | 34.82                         | -77.52                  | 0.00                   | 0.19            | -77.71               | -13.00      | 64.71       |
| 45.21                   | V           | 35.71                         | -60.80                  | -19.59                 | 0.12            | -80.51               | -13.00      | 67.51       |
| 3465.000                | H           | 46.06                         | -51.75                  | 10.39                  | 1.15            | -42.51               | -13.00      | 29.51       |
| 3465.000                | V           | 46.47                         | -51.30                  | 10.39                  | 1.15            | -42.06               | -13.00      | 29.06       |
| 5197.500                | H           | 50.12                         | -44.01                  | 11.32                  | 1.44            | -34.13               | -13.00      | 21.13       |
| 5197.500                | V           | 49.21                         | -44.77                  | 11.32                  | 1.44            | -34.89               | -13.00      | 21.89       |
| 1.4MHz QPSK, Frequency: |             |                               | 1754.3                  | MHz                    |                 |                      |             |             |
| 252.06                  | H           | 34.41                         | -77.44                  | 0.00                   | 0.30            | -77.74               | -13.00      | 64.74       |
| 44.58                   | V           | 35.54                         | -60.22                  | -20.35                 | 0.12            | -80.69               | -13.00      | 67.69       |
| 3508.600                | H           | 46.27                         | -51.55                  | 10.41                  | 1.19            | -42.33               | -13.00      | 29.33       |
| 3508.600                | V           | 46.45                         | -51.31                  | 10.41                  | 1.19            | -42.09               | -13.00      | 29.09       |
| 5262.900                | H           | 47.31                         | -46.39                  | 11.36                  | 1.47            | -36.50               | -13.00      | 23.50       |
| 5262.900                | V           | 46.59                         | -46.88                  | 11.36                  | 1.47            | -36.99               | -13.00      | 23.99       |

**LTE Band 5(30MHz-10GHz):**

| Frequency (MHz)                    | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|------------------------------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                                    |             |                         | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| QPSK, 1.4MHz, Frequency: 824.7 MHz |             |                         |                         |                        |                 |                      |             |             |
| 445.14                             | H           | 21.06                   | -55.89                  | 0.00                   | 0.43            | -56.32               | -13.00      | 43.32       |
| 714.31                             | V           | 20.80                   | -48.81                  | 0.00                   | 0.50            | -49.31               | -13.00      | 36.31       |
| 1649.400                           | H           | 55.09                   | -49.24                  | 8.68                   | 0.80            | -41.36               | -13.00      | 28.36       |
| 1649.400                           | V           | 54.62                   | -49.79                  | 8.68                   | 0.80            | -41.91               | -13.00      | 28.91       |
| 2474.100                           | H           | 53.27                   | -47.51                  | 9.38                   | 1.00            | -39.13               | -13.00      | 26.13       |
| 2474.100                           | V           | 54.03                   | -46.70                  | 9.38                   | 1.00            | -38.32               | -13.00      | 25.32       |
| 3298.800                           | H           | 45.37                   | -51.31                  | 10.32                  | 1.15            | -42.14               | -13.00      | 29.14       |
| 3298.800                           | V           | 46.36                   | -50.08                  | 10.32                  | 1.15            | -40.91               | -13.00      | 27.91       |
| QPSK, 1.4MHz, Frequency: 836.5 MHz |             |                         |                         |                        |                 |                      |             |             |
| 721.86                             | H           | 20.61                   | -52.27                  | 0.00                   | 0.50            | -52.77               | -13.00      | 39.77       |
| 694.57                             | V           | 20.56                   | -49.46                  | 0.00                   | 0.55            | -50.01               | -13.00      | 37.01       |
| 1673.000                           | H           | 57.62                   | -46.69                  | 8.71                   | 0.85            | -38.83               | -13.00      | 25.83       |
| 1673.000                           | V           | 56.27                   | -48.14                  | 8.71                   | 0.85            | -40.28               | -13.00      | 27.28       |
| 2509.500                           | H           | 54.03                   | -46.58                  | 9.42                   | 1.01            | -38.17               | -13.00      | 25.17       |
| 2509.500                           | V           | 53.61                   | -47.01                  | 9.42                   | 1.01            | -38.60               | -13.00      | 25.60       |
| 3346.000                           | H           | 45.71                   | -51.45                  | 10.34                  | 1.16            | -42.27               | -13.00      | 29.27       |
| 3346.000                           | V           | 46.14                   | -50.88                  | 10.34                  | 1.16            | -41.70               | -13.00      | 28.70       |
| QPSK, 1.4MHz, Frequency: 848.3 MHz |             |                         |                         |                        |                 |                      |             |             |
| 570.85                             | H           | 20.78                   | -53.65                  | 0.00                   | 0.46            | -54.11               | -13.00      | 41.11       |
| 719.34                             | V           | 20.84                   | -48.66                  | 0.00                   | 0.49            | -49.15               | -13.00      | 36.15       |
| 1696.600                           | H           | 60.67                   | -43.62                  | 8.74                   | 0.89            | -35.77               | -13.00      | 22.77       |
| 1696.600                           | V           | 59.29                   | -45.13                  | 8.74                   | 0.89            | -37.28               | -13.00      | 24.28       |
| 2544.900                           | H           | 56.43                   | -43.91                  | 9.47                   | 1.01            | -35.45               | -13.00      | 22.45       |
| 2544.900                           | V           | 57.89                   | -42.41                  | 9.47                   | 1.01            | -33.95               | -13.00      | 20.95       |
| 3393.200                           | H           | 45.81                   | -51.86                  | 10.36                  | 1.19            | -42.69               | -13.00      | 29.69       |
| 3393.200                           | V           | 45.19                   | -52.44                  | 10.36                  | 1.19            | -43.27               | -13.00      | 30.27       |

**LTE Band 7(30MHz-26.5GHz):**

| Frequency (MHz)                  | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|----------------------------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                                  |             |                         | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| 5MHz QPSK, Frequency: 2502.5 MHz |             |                         |                         |                        |                 |                      |             |             |
| 105.27                           | H           | 34.69                   | -77.61                  | 0.00                   | 0.19            | -77.80               | -25.00      | 52.80       |
| 45.21                            | V           | 35.72                   | -60.79                  | -19.59                 | 0.12            | -80.50               | -25.00      | 55.50       |
| 5005.000                         | H           | 46.38                   | -46.58                  | 11.20                  | 1.47            | -36.85               | -25.00      | 11.85       |
| 5005.000                         | V           | 46.25                   | -46.57                  | 11.20                  | 1.47            | -36.84               | -25.00      | 11.84       |
| 7507.500                         | H           | 47.03                   | -42.76                  | 10.90                  | 1.95            | -33.81               | -25.00      | 8.81        |
| 7507.500                         | V           | 46.59                   | -43.70                  | 10.90                  | 1.95            | -34.75               | -25.00      | 9.75        |
| 5MHz QPSK, Frequency: 2535 MHz   |             |                         |                         |                        |                 |                      |             |             |
| 106.38                           | H           | 34.40                   | -77.88                  | 0.00                   | 0.19            | -78.07               | -25.00      | 53.07       |
| 43.81                            | V           | 35.67                   | -59.09                  | -21.37                 | 0.12            | -80.58               | -25.00      | 55.58       |
| 5070.000                         | H           | 45.49                   | -47.70                  | 11.24                  | 1.47            | -37.93               | -25.00      | 12.93       |
| 5070.000                         | V           | 46.68                   | -46.41                  | 11.24                  | 1.47            | -36.64               | -25.00      | 11.64       |
| 7605.000                         | H           | 45.35                   | -44.12                  | 10.88                  | 2.01            | -35.25               | -25.00      | 10.25       |
| 7605.000                         | V           | 45.04                   | -45.15                  | 10.88                  | 2.01            | -36.28               | -25.00      | 11.28       |
| 5MHz QPSK, Frequency: 2567.5 MHz |             |                         |                         |                        |                 |                      |             |             |
| 248.39                           | H           | 34.82                   | -77.11                  | 0.00                   | 0.30            | -77.41               | -25.00      | 52.41       |
| 45.05                            | V           | 35.69                   | -60.66                  | -19.75                 | 0.12            | -80.53               | -25.00      | 55.53       |
| 5135.000                         | H           | 47.06                   | -46.54                  | 11.28                  | 1.47            | -36.73               | -25.00      | 11.73       |
| 5135.000                         | V           | 46.04                   | -47.45                  | 11.28                  | 1.47            | -37.64               | -25.00      | 12.64       |
| 7702.500                         | H           | 47.26                   | -42.26                  | 10.86                  | 1.97            | -33.37               | -25.00      | 8.37        |
| 7702.500                         | V           | 47.12                   | -43.06                  | 10.86                  | 1.97            | -34.17               | -25.00      | 9.17        |

**LTE Band 12(30MHz-10GHz):**

| Frequency (MHz)         | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                         |             |                         | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| 1.4MHz QPSK, Frequency: |             |                         | 699.7                   | MHz                    |                 |                      |             |             |
| 459.32                  | H           | 20.64                   | -56.02                  | 0.00                   | 0.41            | -56.43               | -13.00      | 43.43       |
| 568.86                  | V           | 20.61                   | -51.07                  | 0.00                   | 0.46            | -51.53               | -13.00      | 38.53       |
| 1399.400                | H           | 50.97                   | -52.73                  | 8.22                   | 0.71            | -45.22               | -13.00      | 32.22       |
| 1399.400                | V           | 49.53                   | -54.22                  | 8.22                   | 0.71            | -46.71               | -13.00      | 33.71       |
| 2099.100                | H           | 58.74                   | -43.14                  | 9.16                   | 0.91            | -34.89               | -13.00      | 21.89       |
| 2099.100                | V           | 57.61                   | -44.22                  | 9.16                   | 0.91            | -35.97               | -13.00      | 22.97       |
| 2798.800                | H           | 46.92                   | -53.01                  | 9.88                   | 1.04            | -44.17               | -13.00      | 31.17       |
| 2798.800                | V           | 47.43                   | -52.37                  | 9.88                   | 1.04            | -43.53               | -13.00      | 30.53       |
| 1.4MHz QPSK, Frequency: |             |                         | 707.5                   | MHz                    |                 |                      |             |             |
| 525.56                  | H           | 20.57                   | -54.76                  | 0.00                   | 0.42            | -55.18               | -13.00      | 42.18       |
| 539.74                  | V           | 20.46                   | -51.18                  | 0.00                   | 0.46            | -51.64               | -13.00      | 38.64       |
| 1415.000                | H           | 50.92                   | -52.75                  | 8.26                   | 0.72            | -45.21               | -13.00      | 32.21       |
| 1415.000                | V           | 49.27                   | -54.45                  | 8.26                   | 0.72            | -46.91               | -13.00      | 33.91       |
| 2122.500                | H           | 63.25                   | -38.74                  | 9.17                   | 0.92            | -30.49               | -13.00      | 17.49       |
| 2122.500                | V           | 62.86                   | -39.11                  | 9.17                   | 0.92            | -30.86               | -13.00      | 17.86       |
| 2830.000                | H           | 45.92                   | -53.88                  | 9.93                   | 1.06            | -45.01               | -13.00      | 32.01       |
| 2830.000                | V           | 45.97                   | -53.76                  | 9.93                   | 1.06            | -44.89               | -13.00      | 31.89       |
| 1.4MHz QPSK, Frequency: |             |                         | 715.3                   | MHz                    |                 |                      |             |             |
| 574.76                  | H           | 20.68                   | -53.68                  | 0.00                   | 0.46            | -54.14               | -13.00      | 41.14       |
| 428.32                  | V           | 20.53                   | -53.90                  | 0.00                   | 0.40            | -54.30               | -13.00      | 41.30       |
| 1430.600                | H           | 51.09                   | -52.54                  | 8.31                   | 0.73            | -44.96               | -13.00      | 31.96       |
| 1430.600                | V           | 50.02                   | -53.67                  | 8.31                   | 0.73            | -46.09               | -13.00      | 33.09       |
| 2145.900                | H           | 54.43                   | -47.67                  | 9.19                   | 0.93            | -39.41               | -13.00      | 26.41       |
| 2145.900                | V           | 53.61                   | -48.50                  | 9.19                   | 0.93            | -40.24               | -13.00      | 27.24       |
| 2861.200                | H           | 47.98                   | -51.67                  | 9.98                   | 1.07            | -42.76               | -13.00      | 29.76       |
| 2861.200                | V           | 48.34                   | -51.33                  | 9.98                   | 1.07            | -42.42               | -13.00      | 29.42       |



**LTE Band 13(30MHz-10GHz):**

| Frequency (MHz)       | Polar (H/V) | Receiver Reading (dB $\mu$ V) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------------|-------------|-------------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                       |             |                               | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| 5MHz QPSK, Frequency: |             |                               | 779.5                   | MHz                    |                 |                      |             |             |
| 593.17                | H           | 20.57                         | -53.42                  | 0.00                   | 0.50            | -53.92               | -13.00      | 40.92       |
| 687.32                | V           | 20.60                         | -49.55                  | 0.00                   | 0.53            | -50.08               | -13.00      | 37.08       |
| 1559.000              | H           | 49.57                         | -54.42                  | 8.57                   | 0.80            | -46.65               | -40.00      | 6.65        |
| 1559.000              | V           | 48.36                         | -55.69                  | 8.57                   | 0.80            | -47.92               | -40.00      | 7.92        |
| 2338.500              | H           | 49.72                         | -51.87                  | 9.30                   | 0.97            | -43.54               | -13.00      | 30.54       |
| 2338.500              | V           | 49.31                         | -52.05                  | 9.30                   | 0.97            | -43.72               | -13.00      | 30.72       |
| 3118.000              | H           | 45.13                         | -52.36                  | 10.25                  | 1.13            | -43.24               | -13.00      | 30.24       |
| 3118.000              | V           | 45.84                         | -51.51                  | 10.25                  | 1.13            | -42.39               | -13.00      | 29.39       |
| 5MHz QPSK, Frequency: |             |                               | 784.5                   | MHz                    |                 |                      |             |             |
| 672.62                | H           | 20.61                         | -52.86                  | 0.00                   | 0.50            | -53.36               | -13.00      | 40.36       |
| 661.34                | V           | 20.53                         | -50.09                  | 0.00                   | 0.51            | -50.60               | -13.00      | 37.60       |
| 1569.000              | H           | 49.66                         | -54.42                  | 8.58                   | 0.81            | -46.65               | -40.00      | 6.65        |
| 1569.000              | V           | 48.02                         | -56.11                  | 8.58                   | 0.81            | -48.34               | -40.00      | 8.34        |
| 2353.500              | H           | 48.59                         | -52.86                  | 9.31                   | 0.97            | -44.52               | -13.00      | 31.52       |
| 2353.500              | V           | 49.07                         | -52.15                  | 9.31                   | 0.97            | -43.81               | -13.00      | 30.81       |
| 3138.000              | H           | 45.12                         | -52.28                  | 10.26                  | 1.14            | -43.16               | -13.00      | 30.16       |
| 3138.000              | V           | 46.01                         | -51.22                  | 10.26                  | 1.14            | -42.10               | -13.00      | 29.10       |

**LTE Band 17(30MHz-10GHz):**

| Frequency (MHz)       | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                       |             |                         | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| 5MHz QPSK, Frequency: |             |                         | 706.5 MHz               |                        |                 |                      |             |             |
| 508.44                | H           | 20.51                   | -55.15                  | 0.00                   | 0.45            | -55.60               | -13.00      | 42.60       |
| 522.99                | V           | 20.58                   | -51.03                  | 0.00                   | 0.42            | -51.45               | -13.00      | 38.45       |
| 1413.000              | H           | 47.86                   | -55.81                  | 8.26                   | 0.72            | -48.27               | -13.00      | 35.27       |
| 1413.000              | V           | 46.92                   | -56.80                  | 8.26                   | 0.72            | -49.26               | -13.00      | 36.26       |
| 2119.500              | H           | 57.34                   | -44.63                  | 9.17                   | 0.92            | -36.38               | -13.00      | 23.38       |
| 2119.500              | V           | 56.15                   | -45.80                  | 9.17                   | 0.92            | -37.55               | -13.00      | 24.55       |
| 2826.000              | H           | 45.97                   | -53.84                  | 9.92                   | 1.06            | -44.98               | -13.00      | 31.98       |
| 2826.000              | V           | 45.62                   | -54.12                  | 9.92                   | 1.06            | -45.26               | -13.00      | 32.26       |
| 5MHz QPSK, Frequency: |             |                         | 710 MHz                 |                        |                 |                      |             |             |
| 469.08                | H           | 20.48                   | -55.98                  | 0.00                   | 0.43            | -56.41               | -13.00      | 43.41       |
| 591.20                | V           | 20.52                   | -51.20                  | 0.00                   | 0.49            | -51.69               | -13.00      | 38.69       |
| 1420.000              | H           | 46.83                   | -56.83                  | 8.28                   | 0.73            | -49.28               | -13.00      | 36.28       |
| 1420.000              | V           | 46.52                   | -57.19                  | 8.28                   | 0.73            | -49.64               | -13.00      | 36.64       |
| 2130.000              | H           | 63.78                   | -38.24                  | 9.18                   | 0.92            | -29.98               | -13.00      | 16.98       |
| 2130.000              | V           | 62.71                   | -39.30                  | 9.18                   | 0.92            | -31.04               | -13.00      | 18.04       |
| 2840.000              | H           | 45.82                   | -53.93                  | 9.94                   | 1.06            | -45.05               | -13.00      | 32.05       |
| 2840.000              | V           | 45.31                   | -54.40                  | 9.94                   | 1.06            | -45.52               | -13.00      | 32.52       |
| 5MHz QPSK, Frequency: |             |                         | 713.5 MHz               |                        |                 |                      |             |             |
| 530.26                | H           | 20.59                   | -54.64                  | 0.00                   | 0.45            | -55.09               | -13.00      | 42.09       |
| 603.76                | V           | 20.62                   | -51.04                  | 0.00                   | 0.50            | -51.54               | -13.00      | 38.54       |
| 1427.000              | H           | 48.47                   | -55.17                  | 8.30                   | 0.73            | -47.60               | -13.00      | 34.60       |
| 1427.000              | V           | 47.08                   | -56.61                  | 8.30                   | 0.73            | -49.04               | -13.00      | 36.04       |
| 2140.500              | H           | 54.51                   | -47.56                  | 9.18                   | 0.93            | -39.31               | -13.00      | 26.31       |
| 2140.500              | V           | 52.55                   | -49.53                  | 9.18                   | 0.93            | -41.28               | -13.00      | 28.28       |
| 2854.000              | H           | 46.03                   | -53.66                  | 9.97                   | 1.07            | -44.76               | -13.00      | 31.76       |
| 2854.000              | V           | 45.97                   | -53.71                  | 9.97                   | 1.07            | -44.81               | -13.00      | 31.81       |

**LTE Band 26(30MHz-10GHz):**

| Frequency (MHz)         | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                         |             |                         | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| 1.4MHz QPSK, Frequency: |             |                         | 814.7 MHz               |                        |                 |                      |             |             |
| 680.05                  | H           | 20.77                   | -52.66                  | 0.00                   | 0.52            | -53.18               | -13.00      | 40.18       |
| 714.18                  | V           | 20.96                   | -48.65                  | 0.00                   | 0.50            | -49.15               | -13.00      | 36.15       |
| 1629.400                | H           | 51.67                   | -52.68                  | 8.66                   | 0.81            | -44.83               | -13.00      | 31.83       |
| 1629.400                | V           | 50.36                   | -54.05                  | 8.66                   | 0.81            | -46.20               | -13.00      | 33.20       |
| 2444.100                | H           | 52.67                   | -48.22                  | 9.37                   | 1.00            | -39.85               | -13.00      | 26.85       |
| 2444.100                | V           | 51.25                   | -49.50                  | 9.37                   | 1.00            | -41.13               | -13.00      | 28.13       |
| 3258.800                | H           | 45.05                   | -51.81                  | 10.30                  | 1.17            | -42.68               | -13.00      | 29.68       |
| 3258.800                | V           | 45.79                   | -50.82                  | 10.30                  | 1.17            | -41.69               | -13.00      | 28.69       |
| 1.4MHz QPSK, Frequency: |             |                         | 836.5 MHz               |                        |                 |                      |             |             |
| 721.73                  | H           | 20.80                   | -52.08                  | 0.00                   | 0.50            | -52.58               | -13.00      | 39.58       |
| 687.18                  | V           | 20.74                   | -49.41                  | 0.00                   | 0.53            | -49.94               | -13.00      | 36.94       |
| 1673.000                | H           | 55.79                   | -48.52                  | 8.71                   | 0.85            | -40.66               | -13.00      | 27.66       |
| 1673.000                | V           | 54.25                   | -50.16                  | 8.71                   | 0.85            | -42.30               | -13.00      | 29.30       |
| 2509.500                | H           | 52.78                   | -47.83                  | 9.42                   | 1.01            | -39.42               | -13.00      | 26.42       |
| 2509.500                | V           | 51.63                   | -48.99                  | 9.42                   | 1.01            | -40.58               | -13.00      | 27.58       |
| 3346.000                | H           | 46.41                   | -50.75                  | 10.34                  | 1.16            | -41.57               | -13.00      | 28.57       |
| 3346.000                | V           | 45.94                   | -51.08                  | 10.34                  | 1.16            | -41.90               | -13.00      | 28.90       |
| 1.4MHz QPSK, Frequency: |             |                         | 848.3 MHz               |                        |                 |                      |             |             |
| 668.19                  | H           | 21.12                   | -52.37                  | 0.00                   | 0.50            | -52.87               | -13.00      | 39.87       |
| 584.91                  | V           | 20.88                   | -50.83                  | 0.00                   | 0.46            | -51.29               | -13.00      | 38.29       |
| 1696.600                | H           | 59.34                   | -44.95                  | 8.74                   | 0.89            | -37.10               | -13.00      | 24.10       |
| 1696.600                | V           | 58.29                   | -46.13                  | 8.74                   | 0.89            | -38.28               | -13.00      | 25.28       |
| 2544.900                | H           | 57.31                   | -43.03                  | 9.47                   | 1.01            | -34.57               | -13.00      | 21.57       |
| 2544.900                | V           | 58.35                   | -41.95                  | 9.47                   | 1.01            | -33.49               | -13.00      | 20.49       |
| 3393.200                | H           | 45.71                   | -51.96                  | 10.36                  | 1.19            | -42.79               | -13.00      | 29.79       |
| 3393.200                | V           | 46.12                   | -51.51                  | 10.36                  | 1.19            | -42.34               | -13.00      | 29.34       |

**LTE Band 38 (30MHz-26.5GHz):**

| Frequency (MHz)       | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                       |             |                         | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| 5MHz QPSK, Frequency: |             |                         | 2572.5                  | MHz                    |                 |                      |             |             |
| 105.27                | H           | 35.05                   | -77.25                  | 0.00                   | 0.19            | -77.44               | -25.00      | 52.44       |
| 68.63                 | V           | 35.42                   | -67.66                  | -5.73                  | 0.15            | -73.54               | -25.00      | 48.54       |
| 5145.000              | H           | 50.83                   | -42.85                  | 11.29                  | 1.44            | -33.00               | -25.00      | 8.00        |
| 5145.000              | V           | 49.27                   | -44.30                  | 11.29                  | 1.44            | -34.45               | -25.00      | 9.45        |
| 7717.500              | H           | 48.35                   | -41.16                  | 10.86                  | 1.99            | -32.29               | -25.00      | 7.29        |
| 7717.500              | V           | 47.92                   | -42.21                  | 10.86                  | 1.99            | -33.34               | -25.00      | 8.34        |
| 5MHz QPSK, Frequency: |             |                         | 2595                    | MHz                    |                 |                      |             |             |
| 103.80                | H           | 34.91                   | -77.41                  | 0.00                   | 0.19            | -77.60               | -25.00      | 52.60       |
| 45.21                 | V           | 35.79                   | -60.72                  | -19.59                 | 0.12            | -80.43               | -25.00      | 55.43       |
| 5190.000              | H           | 55.06                   | -39.01                  | 11.31                  | 1.44            | -29.14               | -25.00      | 4.14        |
| 5190.000              | V           | 54.09                   | -39.83                  | 11.31                  | 1.44            | -29.96               | -25.00      | 4.96        |
| 7785.000              | H           | 48.15                   | -41.34                  | 10.84                  | 1.99            | -32.49               | -25.00      | 7.49        |
| 7785.000              | V           | 48.13                   | -41.79                  | 10.84                  | 1.99            | -32.94               | -25.00      | 7.94        |
| 5MHz QPSK, Frequency: |             |                         | 2617.5                  | MHz                    |                 |                      |             |             |
| 103.80                | H           | 34.91                   | -77.41                  | 0.00                   | 0.19            | -77.60               | -25.00      | 52.60       |
| 45.21                 | V           | 35.79                   | -60.72                  | -19.59                 | 0.12            | -80.43               | -25.00      | 55.43       |
| 5235.000              | H           | 46.17                   | -47.73                  | 11.34                  | 1.46            | -37.85               | -25.00      | 12.85       |
| 5235.000              | V           | 46.05                   | -47.66                  | 11.34                  | 1.46            | -37.78               | -25.00      | 12.78       |
| 7852.500              | H           | 48.56                   | -40.63                  | 10.83                  | 2.03            | -31.83               | -25.00      | 6.83        |
| 7852.500              | V           | 47.85                   | -41.73                  | 10.83                  | 2.03            | -32.93               | -25.00      | 7.93        |

**LTE Band 40 Lower (30MHz-25GHz):**

| Frequency (MHz)                  | Polar (H/V) | Receiver Reading (dB $\mu$ V) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|----------------------------------|-------------|-------------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                                  |             |                               | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| 5MHz QPSK, Frequency: 2307.5 MHz |             |                               |                         |                        |                 |                      |             |             |
| 103.80                           | H           | 34.64                         | -77.68                  | 0.00                   | 0.19            | -77.87               | -40.00      | 37.87       |
| 44.58                            | V           | 36.08                         | -59.68                  | -20.35                 | 0.12            | -80.15               | -40.00      | 40.15       |
| 4615.000                         | H           | 37.82                         | -57.54                  | 10.74                  | 1.41            | -48.21               | -40.00      | 8.21        |
| 4615.000                         | V           | 38.39                         | -56.83                  | 10.74                  | 1.41            | -47.50               | -40.00      | 7.50        |
| 6922.500                         | H           | 35.58                         | -55.44                  | 11.22                  | 1.88            | -46.10               | -40.00      | 6.10        |
| 6922.500                         | V           | 35.41                         | -55.48                  | 11.22                  | 1.88            | -46.14               | -40.00      | 6.14        |
| 5MHz QPSK, Frequency: 2312.5 MHz |             |                               |                         |                        |                 |                      |             |             |
| 102.36                           | H           | 33.86                         | -78.48                  | 0.00                   | 0.19            | -78.67               | -40.00      | 38.67       |
| 43.81                            | V           | 35.48                         | -59.28                  | -21.37                 | 0.12            | -80.77               | -40.00      | 40.77       |
| 4625.000                         | H           | 37.96                         | -57.33                  | 10.75                  | 1.41            | -47.99               | -40.00      | 7.99        |
| 4625.000                         | V           | 38.42                         | -56.75                  | 10.75                  | 1.41            | -47.41               | -40.00      | 7.41        |
| 6937.500                         | H           | 35.61                         | -55.37                  | 11.21                  | 1.90            | -46.06               | -40.00      | 6.06        |
| 6937.500                         | V           | 35.53                         | -55.31                  | 11.21                  | 1.90            | -46.00               | -40.00      | 6.00        |

**LTE Band 40 Upper (30MHz-25GHz):**

| Frequency (MHz)                  | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|----------------------------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                                  |             |                         | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| 5MHz QPSK, Frequency: 2352.5 MHz |             |                         |                         |                        |                 |                      |             |             |
| 99.18                            | H           | 33.98                   | -78.44                  | 0.00                   | 0.19            | -78.63               | -40.00      | 38.63       |
| 44.74                            | V           | 34.94                   | -61.02                  | -20.14                 | 0.12            | -81.28               | -40.00      | 41.28       |
| 4705.000                         | H           | 37.82                   | -56.96                  | 10.85                  | 1.41            | -47.52               | -40.00      | 7.52        |
| 4705.000                         | V           | 38.39                   | -56.41                  | 10.85                  | 1.41            | -46.97               | -40.00      | 6.97        |
| 7057.500                         | H           | 35.58                   | -54.43                  | 11.17                  | 1.92            | -45.18               | -40.00      | 5.18        |
| 7057.500                         | V           | 35.41                   | -54.49                  | 11.17                  | 1.92            | -45.24               | -40.00      | 5.24        |
| 5MHz QPSK, Frequency: 2357.5 MHz |             |                         |                         |                        |                 |                      |             |             |
| 104.16                           | H           | 34.50                   | -77.81                  | 0.00                   | 0.19            | -78.00               | -40.00      | 38.00       |
| 45.21                            | V           | 35.20                   | -61.31                  | -19.59                 | 0.12            | -81.02               | -40.00      | 41.02       |
| 4715.000                         | H           | 37.75                   | -56.96                  | 10.86                  | 1.41            | -47.51               | -40.00      | 7.51        |
| 4715.000                         | V           | 38.37                   | -56.34                  | 10.86                  | 1.41            | -46.89               | -40.00      | 6.89        |
| 7072.500                         | H           | 35.53                   | -54.27                  | 11.16                  | 1.91            | -45.02               | -40.00      | 5.02        |
| 7072.500                         | V           | 35.64                   | -54.07                  | 11.16                  | 1.91            | -44.82               | -40.00      | 4.82        |

**LTE Band 41 (30MHz-26.5GHz):**

| Frequency (MHz)                   | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------------------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                                   |             |                         | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| QPSK, 5MHz, Frequency: 2537.5 MHz |             |                         |                         |                        |                 |                      |             |             |
| 257.42                            | H           | 34.41                   | -77.31                  | 0.00                   | 0.30            | -77.61               | -25.00      | 52.61       |
| 44.58                             | V           | 34.76                   | -61.00                  | -20.35                 | 0.12            | -81.47               | -25.00      | 56.47       |
| 5075.000                          | H           | 39.63                   | -53.58                  | 11.25                  | 1.48            | -43.81               | -25.00      | 18.81       |
| 5075.000                          | V           | 38.29                   | -54.82                  | 11.25                  | 1.48            | -45.05               | -25.00      | 20.05       |
| 7612.500                          | H           | 37.36                   | -52.12                  | 10.88                  | 2.02            | -43.26               | -25.00      | 18.26       |
| 7612.500                          | V           | 37.61                   | -52.58                  | 10.88                  | 2.02            | -43.72               | -25.00      | 18.72       |
| QPSK, 5MHz, Frequency:2595 MHz    |             |                         |                         |                        |                 |                      |             |             |
| 275.13                            | H           | 33.81                   | -77.50                  | 0.00                   | 0.32            | -77.82               | -25.00      | 52.82       |
| 43.81                             | V           | 35.23                   | -59.53                  | -21.37                 | 0.12            | -81.02               | -25.00      | 56.02       |
| 5190.000                          | H           | 41.57                   | -52.50                  | 11.31                  | 1.44            | -42.63               | -25.00      | 17.63       |
| 5190.000                          | V           | 42.34                   | -51.58                  | 11.31                  | 1.44            | -41.71               | -25.00      | 16.71       |
| 7785.000                          | H           | 37.56                   | -51.93                  | 10.84                  | 1.99            | -43.08               | -25.00      | 18.08       |
| 7785.000                          | V           | 37.64                   | -52.28                  | 10.84                  | 1.99            | -43.43               | -25.00      | 18.43       |
| QPSK, 5MHz, Frequency: 2652.5MHz  |             |                         |                         |                        |                 |                      |             |             |
| 93.53                             | H           | 33.43                   | -79.37                  | 0.00                   | 0.18            | -79.55               | -25.00      | 54.55       |
| 68.63                             | V           | 35.55                   | -67.53                  | -5.73                  | 0.15            | -73.41               | -25.00      | 48.41       |
| 5305.000                          | H           | 38.21                   | -55.23                  | 11.38                  | 1.46            | -45.31               | -25.00      | 20.31       |
| 5305.000                          | V           | 37.28                   | -55.90                  | 11.38                  | 1.46            | -45.98               | -25.00      | 20.98       |
| 7957.500                          | H           | 37.25                   | -51.17                  | 10.81                  | 2.09            | -42.45               | -25.00      | 17.45       |
| 7957.500                          | V           | 37.56                   | -51.31                  | 10.81                  | 2.09            | -42.59               | -25.00      | 17.59       |

**LTE Band 66 (30MHz-20GHz):**

| Frequency (MHz)         | Polar (H/V) | Receiver Reading (dB $\mu$ V) | Substituted Method      |                        |                 | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-------------------------|-------------|-------------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
|                         |             |                               | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) |                      |             |             |
| 1.4MHz QPSK, Frequency: |             |                               | 1710.7 MHz              |                        |                 |                      |             |             |
| 267.53                  | H           | 33.91                         | -77.58                  | 0.00                   | 0.31            | -77.89               | -13.00      | 64.89       |
| 43.19                   | V           | 35.07                         | -58.88                  | -22.19                 | 0.12            | -81.19               | -13.00      | 68.19       |
| 3421.400                | H           | 47.34                         | -50.42                  | 10.37                  | 1.17            | -41.22               | -13.00      | 28.22       |
| 3421.400                | V           | 46.83                         | -50.90                  | 10.37                  | 1.17            | -41.70               | -13.00      | 28.70       |
| 5132.100                | H           | 47.62                         | -45.95                  | 11.28                  | 1.47            | -36.14               | -13.00      | 23.14       |
| 5132.100                | V           | 46.57                         | -46.89                  | 11.28                  | 1.47            | -37.08               | -13.00      | 24.08       |
| 1.4MHz QPSK, Frequency: |             |                               | 1745 MHz                |                        |                 |                      |             |             |
| 252.95                  | H           | 34.22                         | -77.61                  | 0.00                   | 0.30            | -77.91               | -13.00      | 64.91       |
| 38.34                   | V           | 35.25                         | -52.95                  | -25.60                 | 0.11            | -78.66               | -13.00      | 65.66       |
| 3490.000                | H           | 47.81                         | -50.03                  | 10.40                  | 1.17            | -40.80               | -13.00      | 27.80       |
| 3490.000                | V           | 47.08                         | -50.70                  | 10.40                  | 1.17            | -41.47               | -13.00      | 28.47       |
| 5235.000                | H           | 47.51                         | -46.39                  | 11.34                  | 1.46            | -36.51               | -13.00      | 23.51       |
| 5235.000                | V           | 46.55                         | -47.16                  | 11.34                  | 1.46            | -37.28               | -13.00      | 24.28       |
| 1.4MHz QPSK, Frequency: |             |                               | 1779.3 MHz              |                        |                 |                      |             |             |
| 249.43                  | H           | 34.29                         | -77.62                  | 0.00                   | 0.30            | -77.92               | -13.00      | 64.92       |
| 44.58                   | V           | 34.91                         | -60.85                  | -20.35                 | 0.12            | -81.32               | -13.00      | 68.32       |
| 3558.600                | H           | 46.78                         | -50.89                  | 10.46                  | 1.22            | -41.65               | -13.00      | 28.65       |
| 3558.600                | V           | 45.87                         | -51.70                  | 10.46                  | 1.22            | -42.46               | -13.00      | 29.46       |
| 5337.900                | H           | 47.75                         | -45.72                  | 11.40                  | 1.47            | -35.79               | -13.00      | 22.79       |
| 5337.900                | V           | 46.56                         | -46.77                  | 11.40                  | 1.47            | -36.84               | -13.00      | 23.84       |

**Note:**

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level



## **5. EUT PHOTOGRAPHS**

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Please refer to the attachment CR231058425-EXP EUT EXTERNAL PHOTOGRAPHS and CR231058425-INP EUT INTERNAL PHOTOGRAPHS

## **6. TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment CR231058425-00E-TSP TEST SETUP PHOTOGRAPHS.

**==== END OF REPORT =====**