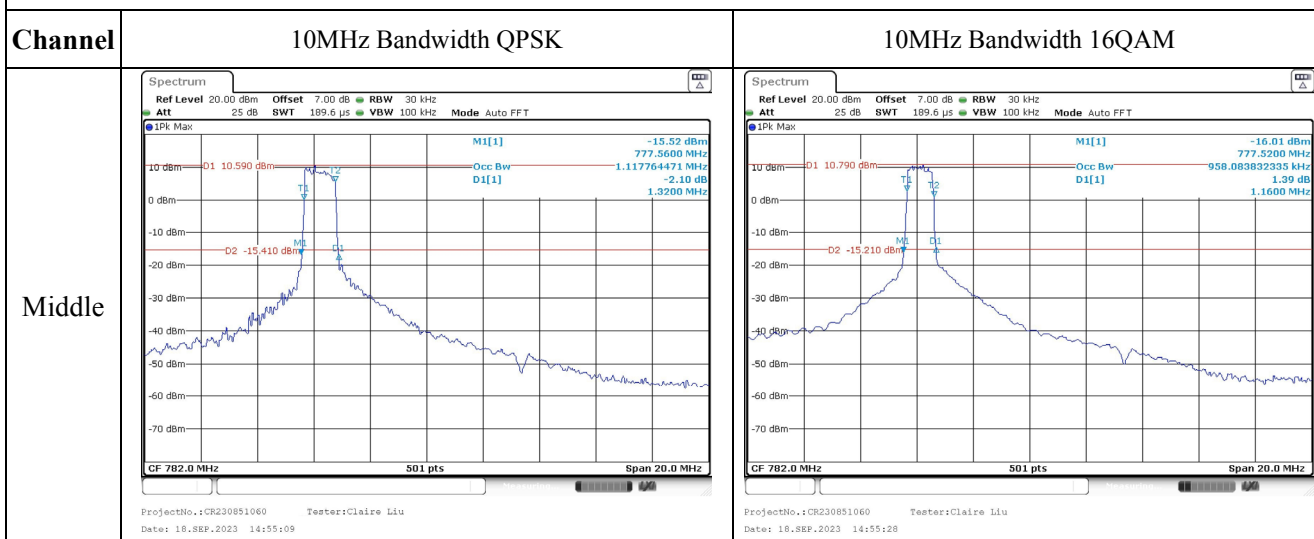


## Occupied Bandwidth

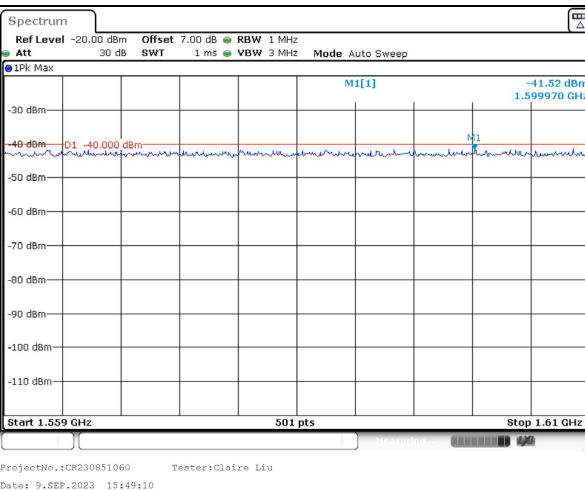
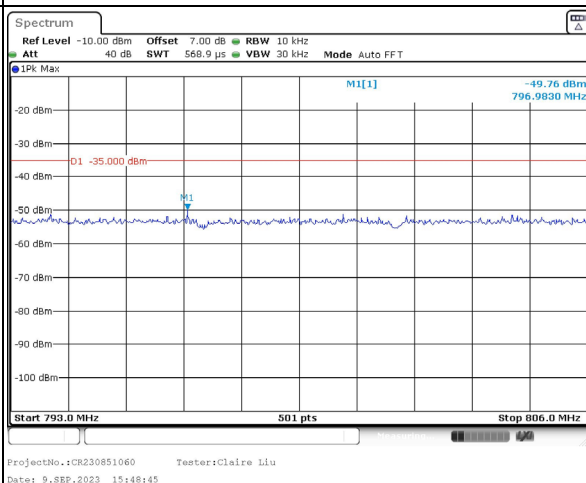
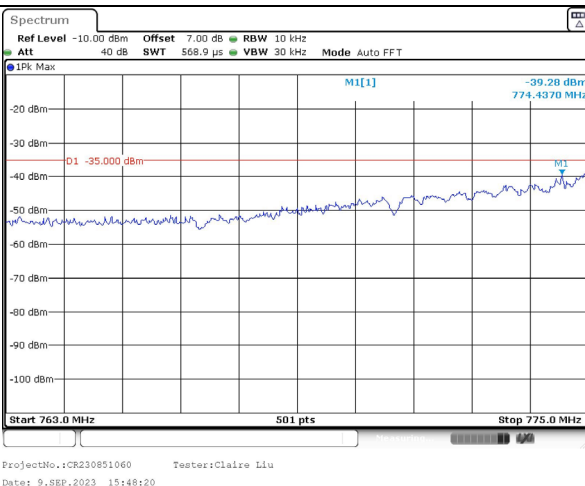
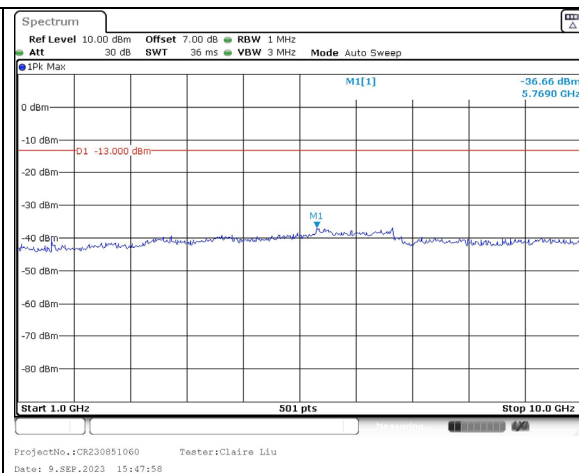
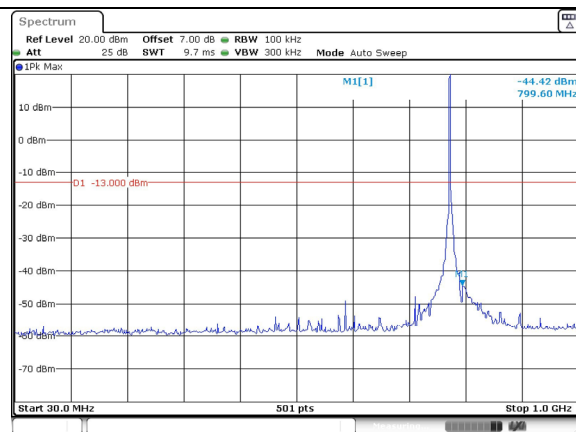


## Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

Lowest

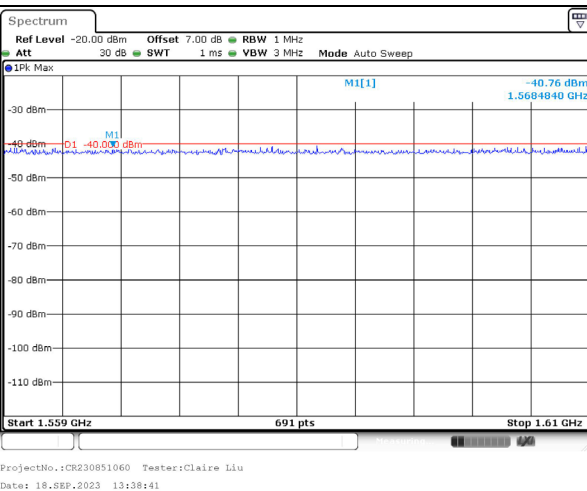
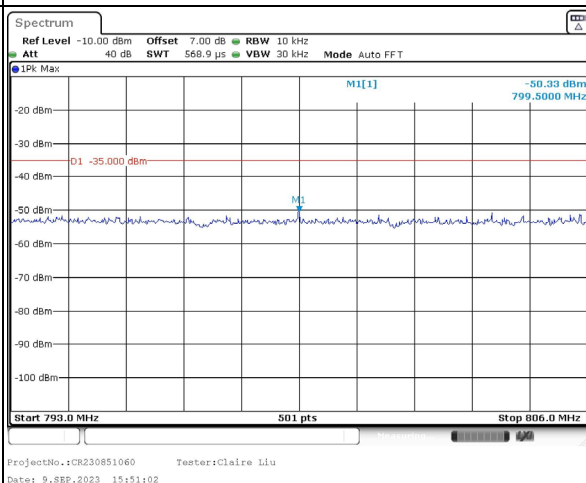
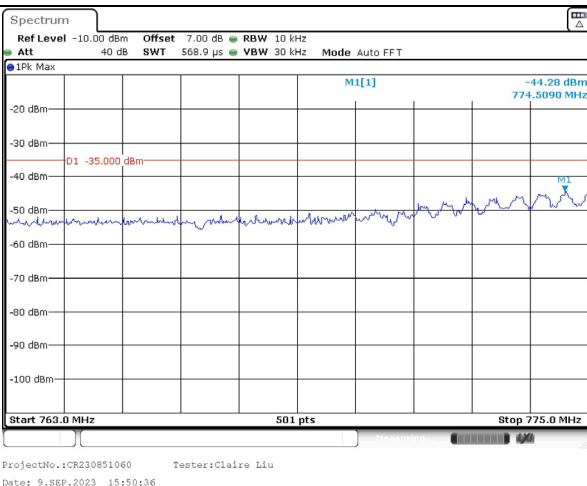
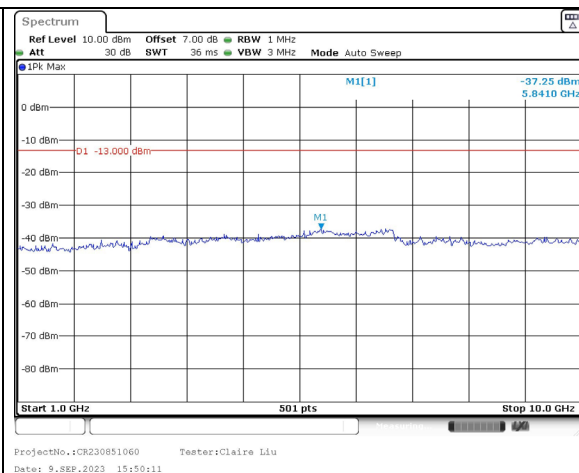
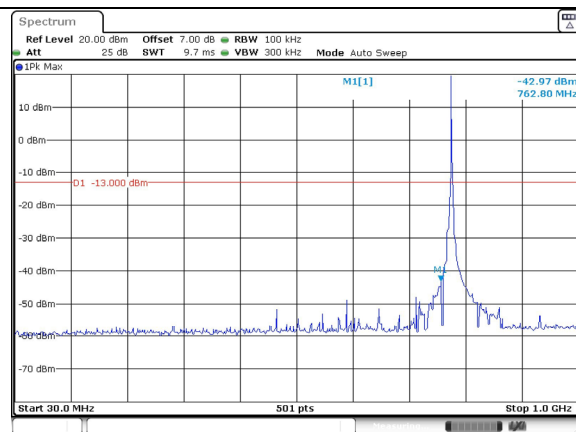


## Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

Middle

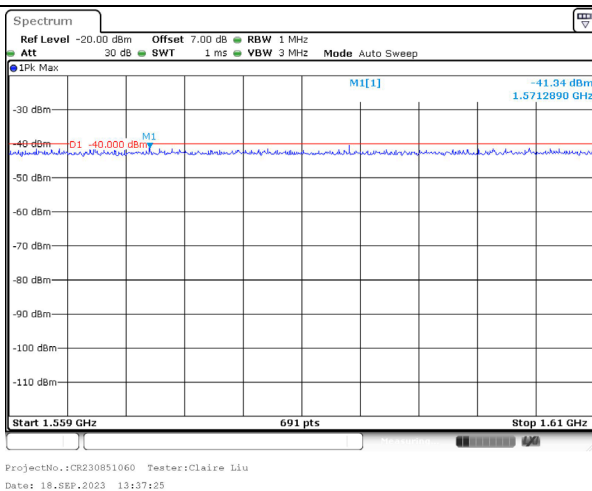
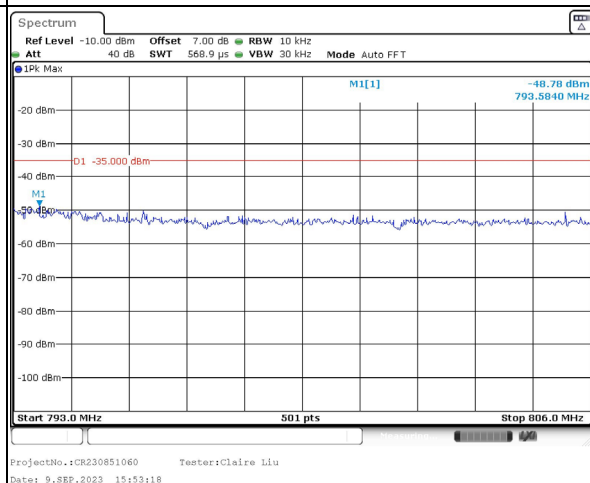
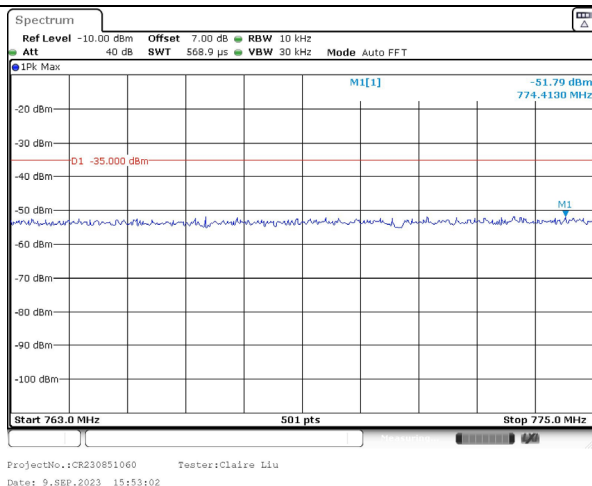
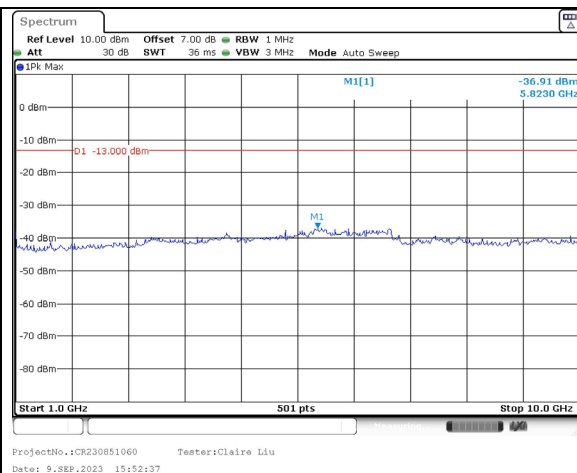
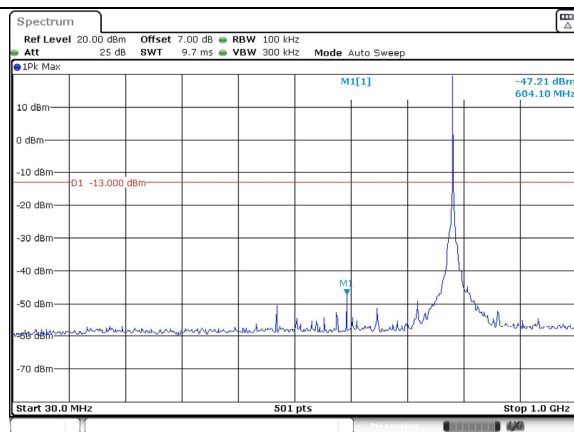


## Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

Highest

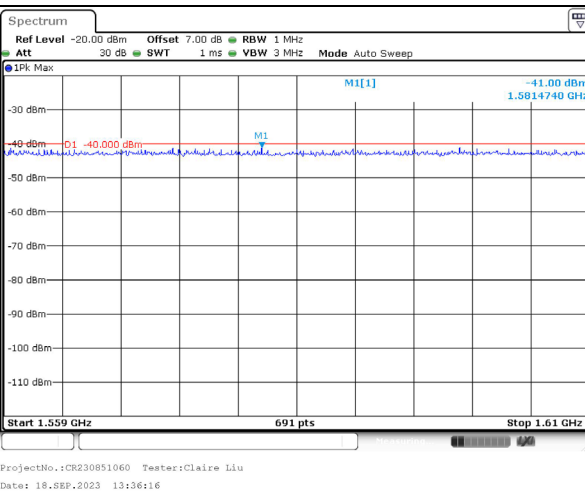
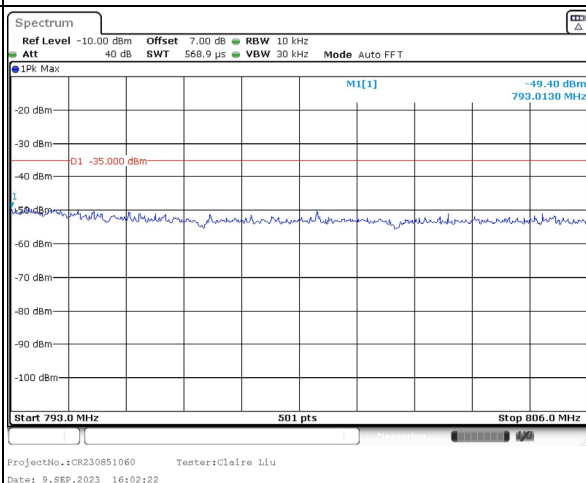
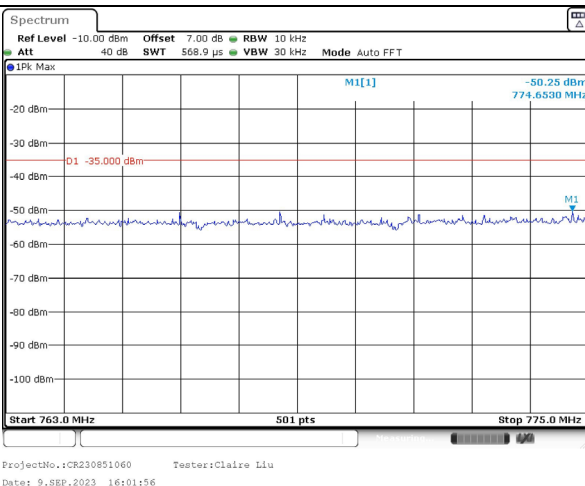
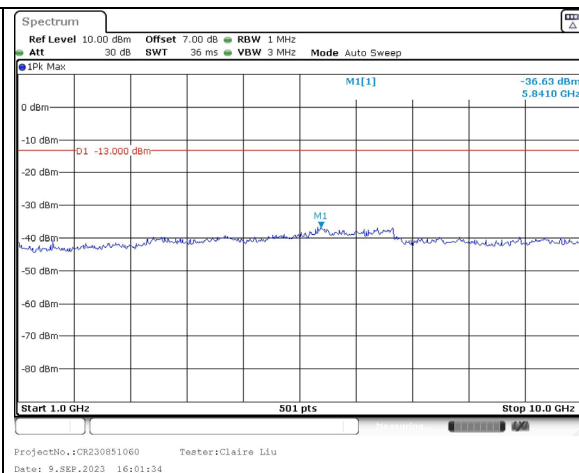
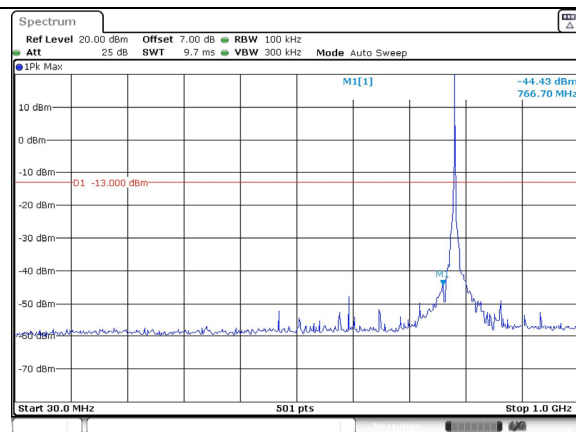


## Spurious Emissions at Antenna Terminal

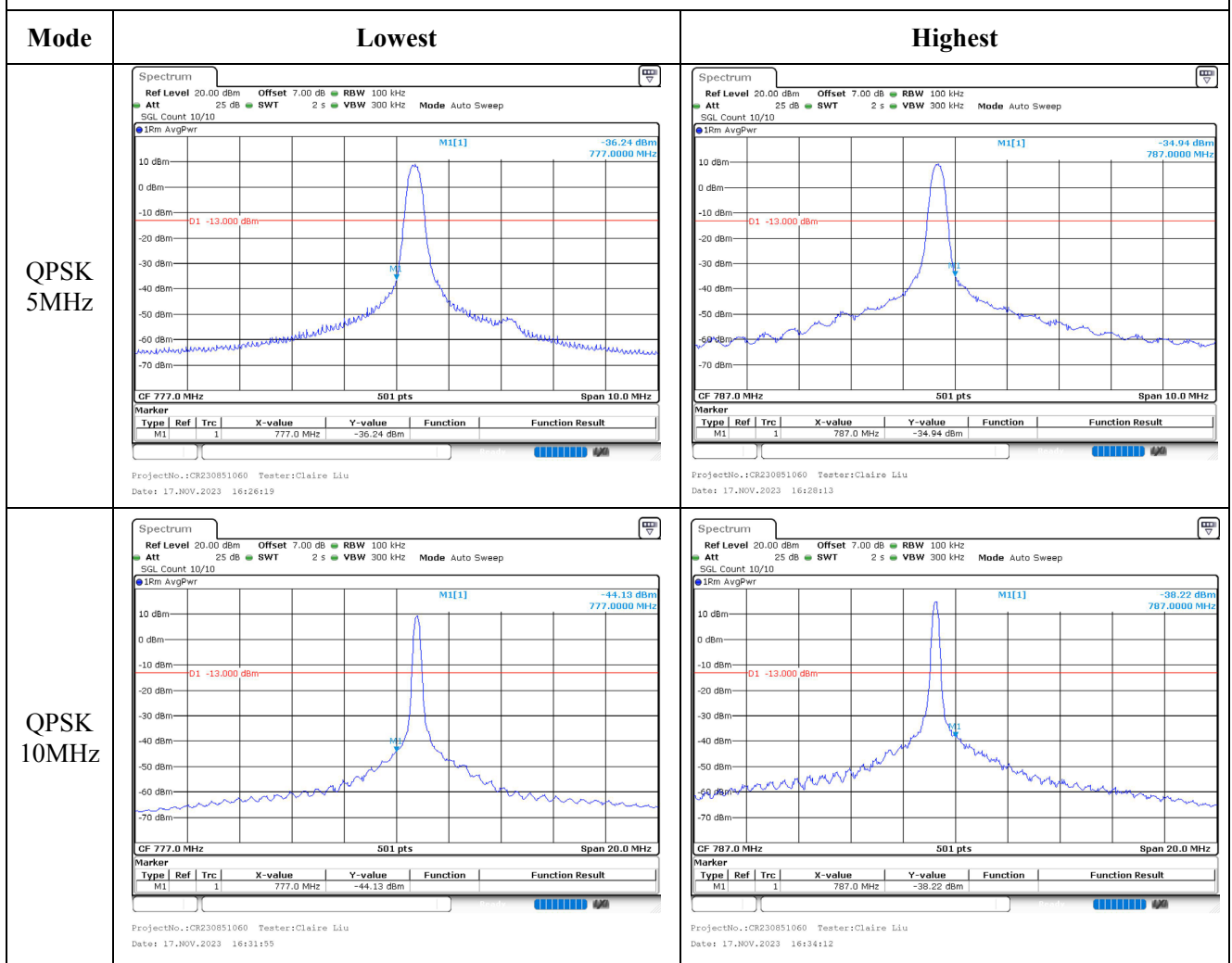
Channel

10MHz Bandwidth QPSK

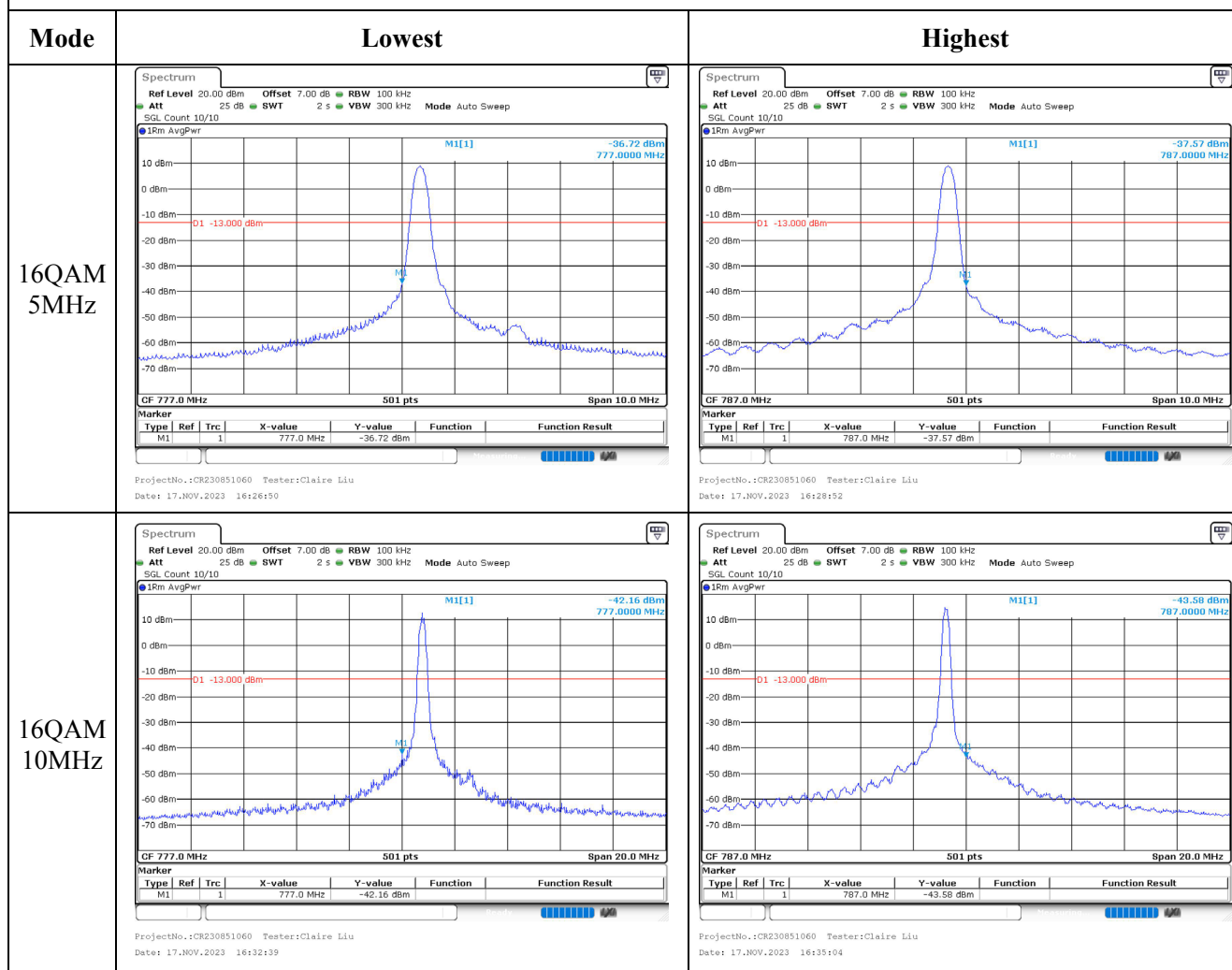
Middle



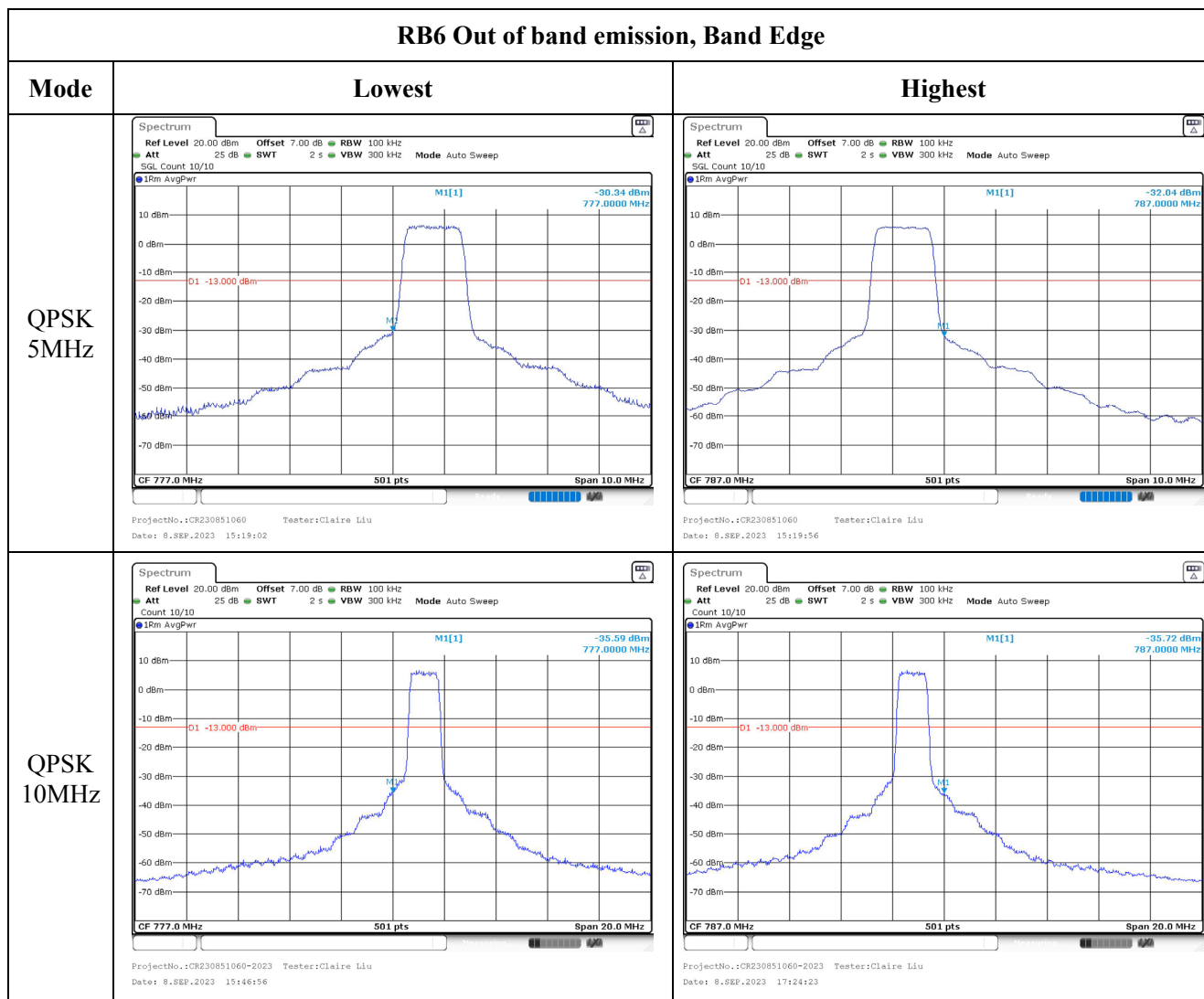
## RB1 Out of band emission, Band Edge



## RB1 Out of band emission, Band Edge

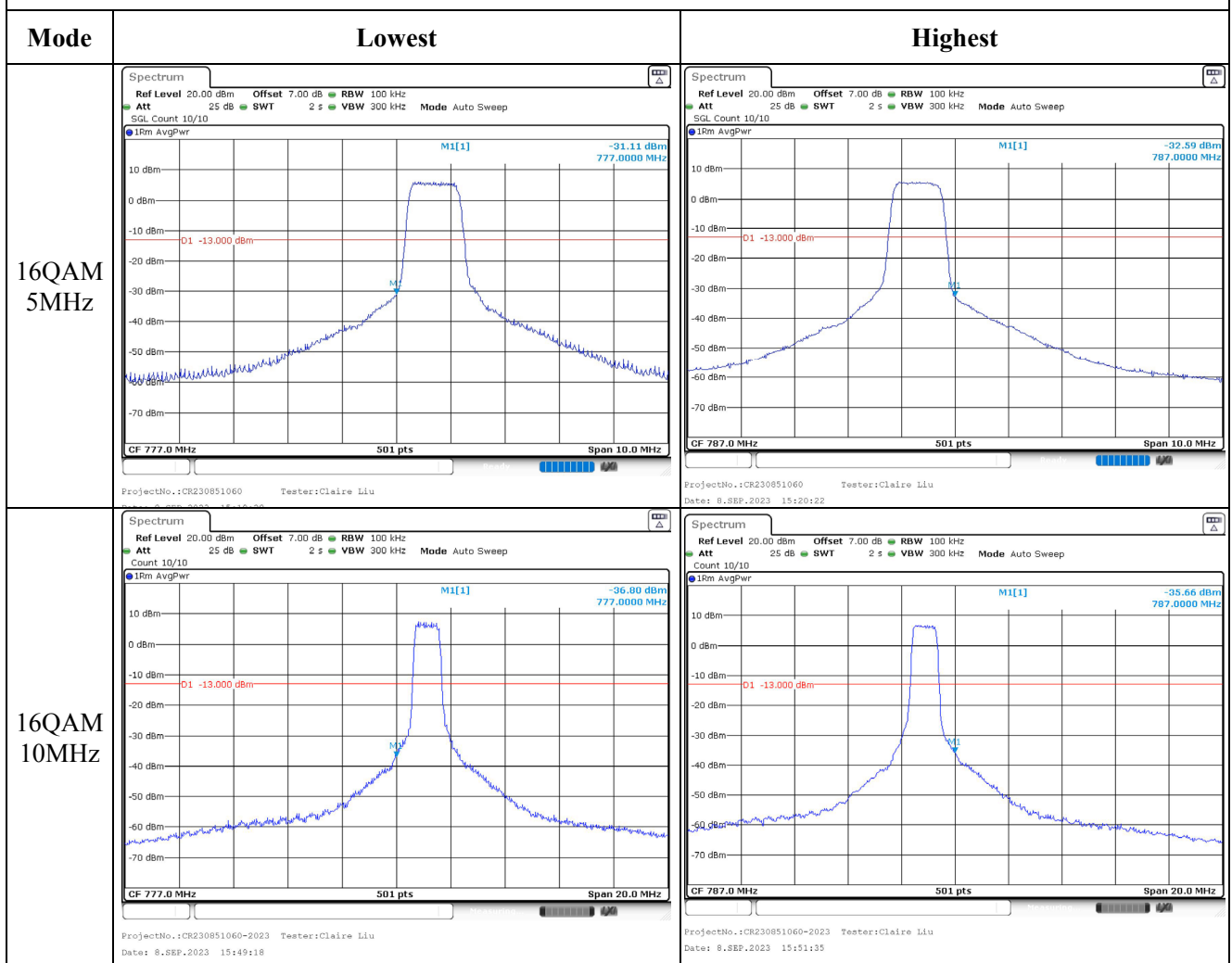


## RB6 Out of band emission, Band Edge





## RB5 Out of band emission, Band Edge



**4.6 Antenna Port Test Data and Results for LTE Band 25**

|                |            |              |                     |
|----------------|------------|--------------|---------------------|
| Serial Number: | 2AQ1-8     | Test Date:   | 2023/9/8~2023/11/17 |
| Test Site:     | RF         | Test Mode:   | Transmitting        |
| Tester:        | Claire Liu | Test Result: | Pass                |

**Environmental Conditions:**

|                      |           |                              |       |                        |           |
|----------------------|-----------|------------------------------|-------|------------------------|-----------|
| Temperature:<br>(°C) | 24.5~26.3 | Relative<br>Humidity:<br>(%) | 52~56 | ATM Pressure:<br>(kPa) | 100.2~101 |
|----------------------|-----------|------------------------------|-------|------------------------|-----------|

**Test Equipment List and Details:**

| Manufacturer  | Description                         | Model      | Serial Number   | Calibration Date | Calibration Due Date |
|---------------|-------------------------------------|------------|-----------------|------------------|----------------------|
| R&S           | Spectrum Analyzer                   | FSV40      | 101590          | 2022/11/25       | 2023/11/24           |
| YINSAIGE      | Coaxial Cable                       | SS402      | SJ0100002       | Each time        | N/A                  |
| Mini-Circuits | DC Block                            | BLK-18-S+  | 1554404         | Each time        | N/A                  |
| Weinschel     | Power Splitter                      | 1515       | RA914           | 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      | 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) |
|---------------------|------------------------|------------------------|-------------------------|
| 1.4MHz              | 1850.7                 | 1882.5                 | 1914.3                  |
| 3MHz                | 1851.5                 | 1882.5                 | 1913.5                  |
| 5MHz                | 1852.5                 | 1882.5                 | 1912.5                  |
| 10MHz               | 1855                   | 1882.5                 | 1910                    |
| 15MHz               | 1857.5                 | 1882.5                 | 1907.5                  |
| 20MHz               | 1860                   | 1882.5                 | 1905                    |

**Test Data:****FCC§2.1046;§ 24.232****RF Output Power:**

| 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                      | 21.62                               | 21.69          | 21.61           | 25.58              | 33               |
|                             | RB1#3                      | 21.35                               | 21.53          | 21.55           |                    |                  |
|                             | RB1#5                      | 21.34                               | 21.46          | 21.46           |                    |                  |
|                             | RB3#0                      | 20.44                               | 20.49          | 20.53           |                    |                  |
|                             | RB3#3                      | 20.25                               | 20.3           | 20.35           |                    |                  |
|                             | RB6#0                      | 19.3                                | 19.32          | 19.38           |                    |                  |
| 1.4MHz 16QAM                | RB1#0                      | 20.44                               | 20.61          | 20.61           | 24.5               | 33               |
|                             | RB1#3                      | 20.36                               | 20.54          | 20.44           |                    |                  |
|                             | RB1#5                      | 20.28                               | 20.37          | 20.36           |                    |                  |
|                             | RB3#0                      | 19.17                               | 19.42          | 19.17           |                    |                  |
|                             | RB3#3                      | 18.98                               | 19.27          | 19.08           |                    |                  |
|                             | RB5#0                      | 19.1                                | 19.28          | 19.32           |                    |                  |
| 3MHz QPSK                   | RB1#1                      | 21.65                               | 21.65          | 21.54           | 25.54              | 33               |
|                             | RB1#4                      | 21.32                               | 21.5           | 21.4            |                    |                  |
|                             | RB1#6                      | 21.33                               | 21.4           | 21.31           |                    |                  |
|                             | RB3#1                      | 20.42                               | 20.53          | 20.57           |                    |                  |
|                             | RB3#4                      | 20.25                               | 20.36          | 20.4            |                    |                  |
|                             | RB6#1                      | 19.22                               | 19.29          | 19.42           |                    |                  |
| 3MHz 16QAM                  | RB1#1                      | 20.47                               | 20.65          | 20.89           | 24.78              | 33               |
|                             | RB1#4                      | 20.4                                | 20.49          | 20.83           |                    |                  |
|                             | RB1#6                      | 20.32                               | 20.4           | 20.73           |                    |                  |
|                             | RB3#1                      | 19.08                               | 19.15          | 19.46           |                    |                  |
|                             | RB3#4                      | 18.93                               | 19             | 19.23           |                    |                  |
|                             | RB5#1                      | 19.15                               | 19.24          | 19.3            |                    |                  |
| 5MHz QPSK                   | RB1#0                      | 21.42                               | 21.63          | 21.67           | 25.56              | 33               |
|                             | RB1#3                      | 21.29                               | 21.59          | 21.54           |                    |                  |
|                             | RB1#5                      | 21.28                               | 21.38          | 21.46           |                    |                  |
|                             | RB3#0                      | 20.36                               | 20.49          | 20.6            |                    |                  |
|                             | RB3#3                      | 20.18                               | 20.31          | 20.43           |                    |                  |
|                             | RB6#0                      | 20.36                               | 20.38          | 20.51           |                    |                  |
| 5MHz 16QAM                  | RB1#0                      | 21.82                               | 21.81          | 21.98           | 25.87              | 33               |
|                             | RB1#3                      | 21.48                               | 21.49          | 21.88           |                    |                  |
|                             | RB1#5                      | 21.42                               | 21.59          | 21.71           |                    |                  |
|                             | RB3#0                      | 20.54                               | 20.62          | 20.66           |                    |                  |
|                             | RB3#3                      | 20.4                                | 20.53          | 20.62           |                    |                  |
|                             | RB5#0                      | 19.4                                | 19.43          | 19.68           |                    |                  |
| 10MHz QPSK                  | RB1#1                      | 21.32                               | 21.5           | 21.52           | 25.41              | 33               |
|                             | RB1#4                      | 21.07                               | 21.34          | 21.47           |                    |                  |
|                             | RB1#6                      | 21.19                               | 21.26          | 21.47           |                    |                  |

|             |       |       |       |       |       |    |
|-------------|-------|-------|-------|-------|-------|----|
|             | RB3#1 | 21.12 | 21.21 | 21.46 |       |    |
|             | RB3#4 | 21.07 | 21.18 | 21.34 |       |    |
|             | RB6#1 | 19.83 | 20.29 | 20.27 |       |    |
| 10MHz 16QAM | RB1#1 | 21.43 | 21.66 | 21.85 | 25.74 | 33 |
|             | RB1#4 | 21.35 | 21.49 | 21.52 |       |    |
|             | RB1#6 | 21.33 | 21.29 | 21.63 |       |    |
|             | RB3#1 | 21.45 | 21.5  | 21.56 |       |    |
|             | RB3#4 | 21.29 | 21.35 | 21.43 |       |    |
|             | RB5#1 | 20.19 | 20.31 | 20.65 |       |    |
| 15MHz QPSK  | RB1#1 | 21.34 | 21.52 | 21.58 | 25.47 | 33 |
|             | RB1#4 | 21.25 | 21.43 | 21.51 |       |    |
|             | RB1#6 | 21.11 | 21.21 | 21.33 |       |    |
|             | RB3#1 | 21.12 | 21.32 | 21.55 |       |    |
|             | RB3#4 | 21.14 | 21.25 | 21.38 |       |    |
|             | RB6#1 | 21.19 | 21.31 | 21.44 |       |    |
| 15MHz 16QAM | RB1#1 | 21.67 | 21.63 | 21.84 | 25.73 | 33 |
|             | RB1#4 | 21.25 | 21.42 | 21.76 |       |    |
|             | RB1#6 | 21.44 | 21.48 | 21.57 |       |    |
|             | RB3#1 | 21.42 | 21.5  | 21.5  |       |    |
|             | RB3#4 | 21.35 | 21.36 | 21.48 |       |    |
|             | RB5#1 | 21.32 | 21.44 | 21.64 |       |    |
| 20MHz QPSK  | RB1#2 | 21.43 | 21.66 | 21.8  | 25.69 | 33 |
|             | RB1#5 | 21.33 | 21.52 | 21.57 |       |    |
|             | RB1#7 | 21.31 | 21.62 | 21.59 |       |    |
|             | RB3#2 | 21.41 | 21.52 | 21.69 |       |    |
|             | RB3#5 | 21.25 | 21.36 | 21.52 |       |    |
|             | RB6#2 | 21.42 | 21.43 | 21.5  |       |    |
| 20MHz 16QAM | RB1#2 | 21.85 | 21.87 | 22.03 | 25.92 | 33 |
|             | RB1#5 | 21.59 | 21.61 | 21.9  |       |    |
|             | RB1#7 | 21.44 | 21.53 | 21.74 |       |    |
|             | RB3#2 | 21.61 | 21.61 | 21.67 |       |    |
|             | RB3#5 | 21.48 | 21.48 | 21.62 |       |    |
|             | RB5#2 | 21.42 | 21.54 | 21.87 |       |    |

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(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#2                      | 11.2                      | 11.1           | 10.87           | 13          |
|                             | RB6#2                      | 11.33                     | 11.45          | 11.19           | 13          |
| 20MHz 16QAM                 | RB1#2                      | 11.59                     | 11.45          | 11.36           | 13          |
|                             | RB5#2                      | 11.88                     | 11.68          | 11.13           | 13          |
|                             |                            |                           |                | <b>Result:</b>  | <b>Pass</b> |

**FCC §2.1049, §24.238: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 |
| 1.4MHz QPSK    | 1.096                        | 1.102          | 1.09         | 1.296                          | 1.308          | 1.272        |
| 1.4MHz 16QAM   | 0.934                        | 0.934          | 0.934        | 1.146                          | 1.14           | 1.194        |
| 3MHz QPSK      | 1.114                        | 1.102          | 1.09         | 1.296                          | 1.308          | 1.296        |
| 3MHz 16QAM     | 0.934                        | 0.934          | 0.934        | 1.14                           | 1.14           | 1.2          |
| 5MHz QPSK      | 1.118                        | 1.118          | 1.098        | 1.32                           | 1.34           | 1.3          |
| 5MHz 16QAM     | 0.958                        | 0.938          | 0.958        | 1.16                           | 1.16           | 1.16         |
| 10MHz QPSK     | 1.118                        | 1.118          | 1.118        | 1.32                           | 1.32           | 1.32         |
| 10MHz 16QAM    | 0.958                        | 0.958          | 0.958        | 1.16                           | 1.16           | 1.16         |
| 15MHz QPSK     | 1.138                        | 1.38           | 1.138        | 1.38                           | 1.38           | 1.38         |
| 15MHz 16QAM    | 0.958                        | 0.958          | 0.958        | 1.2                            | 1.32           | 1.32         |
| 20MHz QPSK     | 1.198                        | 1.198          | 1.118        | 1.36                           | 1.36           | 1.36         |
| 20MHz 16QAM    | 1.038                        | 1.038          | 1.038        | 1.28                           | 1.28           | 1.2          |

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

**FCC §2.1051, § 24.238 (a):Spurious Emissions at Antenna Terminal**

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

**FCC §2.1051, § 24.238 (a):Out of band emission, Band Edge**

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

| FCC §2.1055, §24.235: 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              | 12                                                         | 1850.069         | 1850.000 | 1914.876         | 1915.000    |
|                                           | -20              | 12                                                         | 1850.176         | 1850.000 | 1914.88          | 1915.000    |
|                                           | -10              | 12                                                         | 1850.25          | 1850.000 | 1914.855         | 1915.000    |
|                                           | 0                | 12                                                         | 1850.28          | 1850.000 | 1914.868         | 1915.000    |
|                                           | 10               | 12                                                         | 1850.276         | 1850.000 | 1914.866         | 1915.000    |
|                                           | 20               | 12                                                         | 1850.052         | 1850.000 | 1914.93          | 1915.000    |
|                                           | 30               | 12                                                         | 1850.144         | 1850.000 | 1914.918         | 1915.000    |
|                                           | 40               | 12                                                         | 1850.179         | 1850.000 | 1914.861         | 1915.000    |
|                                           | 50               | 12                                                         | 1850.242         | 1850.000 | 1914.885         | 1915.000    |
| Frequency Stability vs. Voltage           | 20               | 9                                                          | 1850.268         | 1850.000 | 1914.873         | 1915.000    |
|                                           | 20               | 14                                                         | 1850.28          | 1850.000 | 1914.902         | 1915.000    |
|                                           |                  |                                                            |                  |          | <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              | 12                                                         | 1850.004         | 1850.000 | 1914.943         | 1915.000    |
|                                     | -20              | 12                                                         | 1850.144         | 1850.000 | 1914.895         | 1915.000    |
|                                     | -10              | 12                                                         | 1850.104         | 1850.000 | 1914.915         | 1915.000    |
|                                     | 0                | 12                                                         | 1850.226         | 1850.000 | 1914.956         | 1915.000    |
|                                     | 10               | 12                                                         | 1850.246         | 1850.000 | 1914.921         | 1915.000    |
|                                     | 20               | 12                                                         | 1850.004         | 1850.000 | 1914.96          | 1915.000    |
|                                     | 30               | 12                                                         | 1850.074         | 1850.000 | 1914.92          | 1915.000    |
|                                     | 40               | 12                                                         | 1850.099         | 1850.000 | 1914.932         | 1915.000    |
|                                     | 50               | 12                                                         | 1850.131         | 1850.000 | 1914.933         | 1915.000    |
| Frequency Stability vs. Voltage     | 20               | 9                                                          | 1850.205         | 1850.000 | 1914.912         | 1915.000    |
|                                     | 20               | 14                                                         | 1850.283         | 1850.000 | 1914.908         | 1915.000    |
|                                     |                  |                                                            |                  |          | <b>Result:</b>   | <b>Pass</b> |