

### 5MHz Channel Bandwidth - Full RB

#### Lower Band Edge



#### Upper Band Edge



### 10MHz Channel Bandwidth - Full RB

#### Lower Band Edge



#### Upper Band Edge



### 15MHz Channel Bandwidth - Full RB

#### Lower Band Edge



#### Upper Band Edge



### 20MHz Channel Bandwidth - Full RB

#### Lower Band Edge



#### Upper Band Edge



## 5.6. Peak to Average Ratio Measurement

### 5.6.1. Test Limit

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

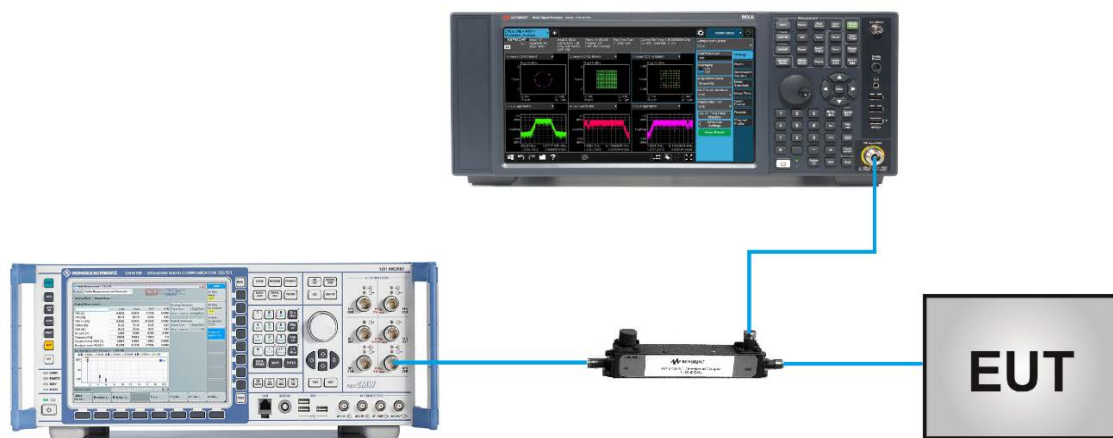
### 5.6.2. Test Procedure

ANSI C63.26-2015 - Section 5.2.3.4 (CCDF).

### 5.6.3. Test Setting

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

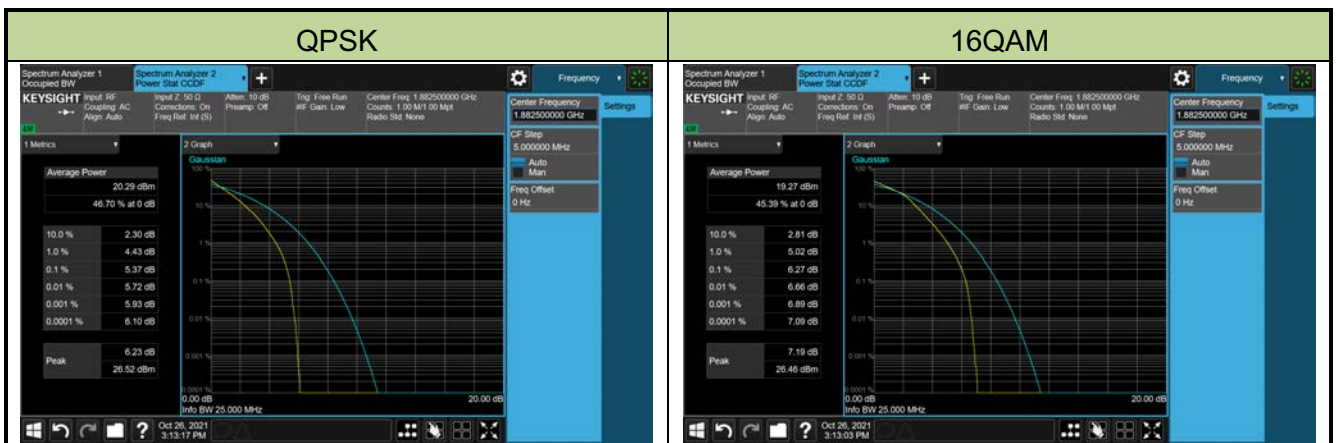
### 5.6.4. Test Setup



### 5.6.5. Test Result

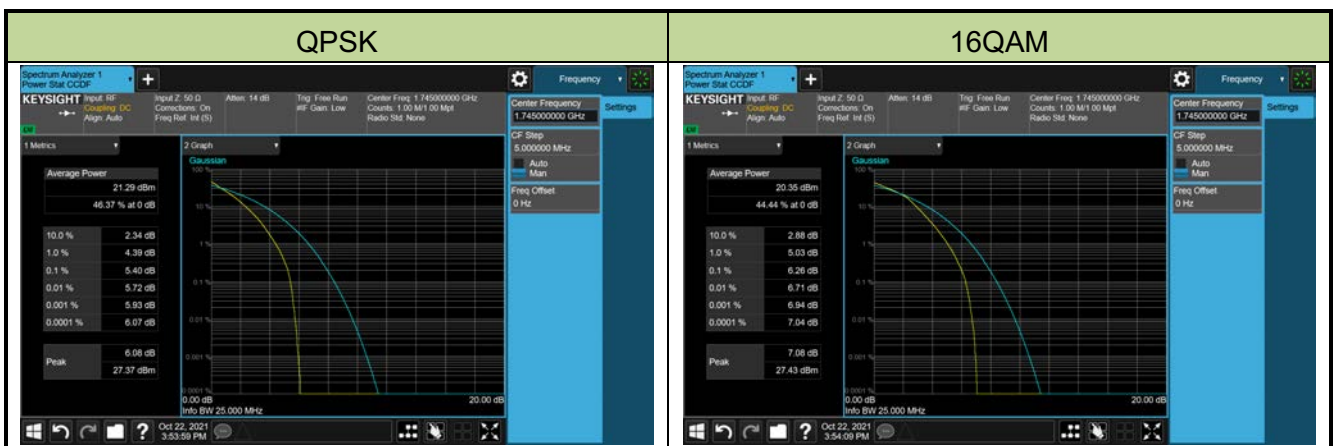
|               |            |           |            |
|---------------|------------|-----------|------------|
| Product       | LTE Module | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo  | Test Date | 2021/10/26 |
| Test Band     | Band 2/25  |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB)   | Result |
|-------------|-----------------|-------------------------|----------------------------|--------------|--------|
| QPSK        |                 |                         |                            |              |        |
| 26365       | 1882.5          | 20                      | 5.37                       | $\leq 13.00$ | Pass   |
| 16QAM       |                 |                         |                            |              |        |
| 26365       | 1882.5          | 20                      | 6.27                       | $\leq 13.00$ | Pass   |



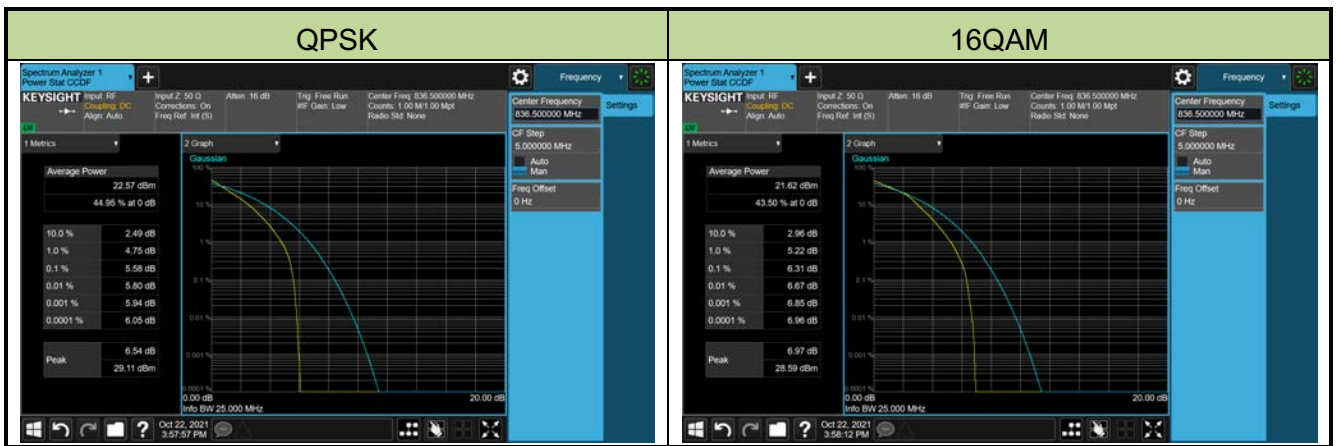
|               |            |           |            |
|---------------|------------|-----------|------------|
| Product       | LTE Module | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo  | Test Date | 2021/10/22 |
| Test Band     | Band 4/66  |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 132322      | 1745.0          | 20                      | 5.40                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 132322      | 1745.0          | 20                      | 6.26                       | ≤ 13.00    | Pass   |



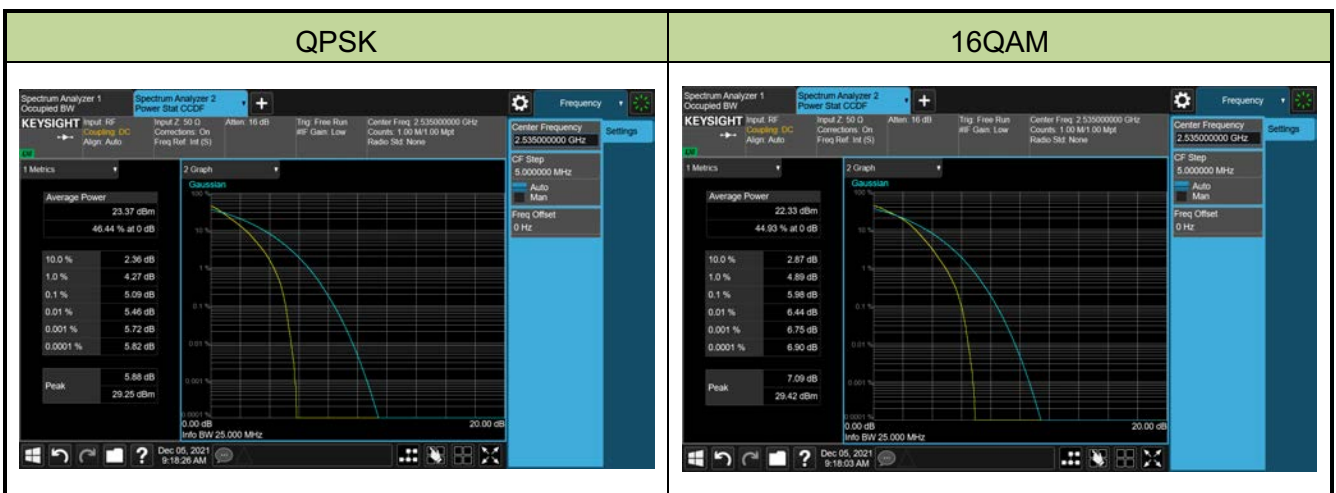
|               |            |           |            |
|---------------|------------|-----------|------------|
| Product       | LTE Module | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo  | Test Date | 2021/10/22 |
| Test Band     | Band 5/26  |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 20525       | 836.5           | 10                      | 5.58                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 20525       | 836.5           | 10                      | 6.31                       | ≤ 13.00    | Pass   |



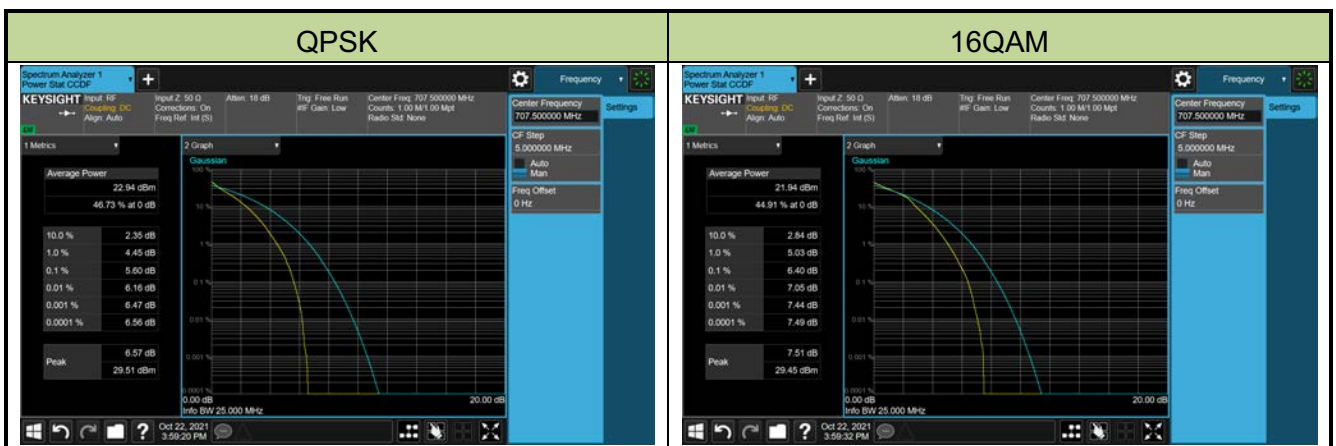
|               |            |           |            |
|---------------|------------|-----------|------------|
| Product       | LTE Module | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo  | Test Date | 2021/12/05 |
| Test Band     | LTE Band 7 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 21100       | 2535.0          | 20                      | 5.09                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 21100       | 2535.0          | 20                      | 5.98                       | ≤ 13.00    | Pass   |



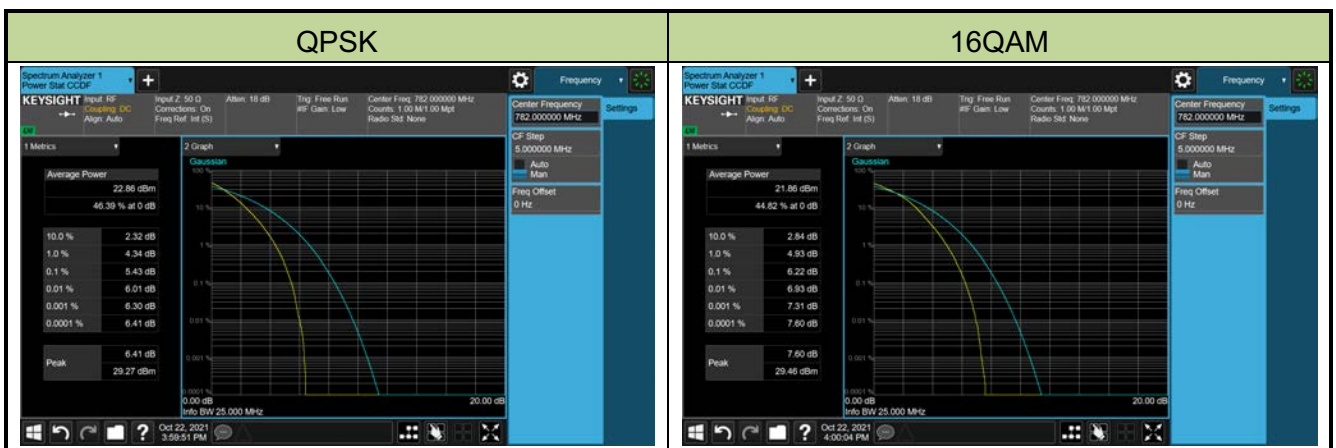
|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/10/22 |
| Test Band     | LTE Band 12 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 26365       | 707.5           | 10                      | 5.60                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 26365       | 707.5           | 10                      | 6.40                       | ≤ 13.00    | Pass   |



|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/10/22 |
| Test Band     | LTE Band 13 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 132322      | 782             | 10                      | 5.43                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 132322      | 782             | 10                      | 6.22                       | ≤ 13.00    | Pass   |



|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/11/29 |
| Test Band     | LTE Band 17 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB)   | Result |
|-------------|-----------------|-------------------------|----------------------------|--------------|--------|
| QPSK        |                 |                         |                            |              |        |
| 23790       | 710.0           | 10                      | 5.25                       | $\leq 13.00$ | Pass   |
| 16QAM       |                 |                         |                            |              |        |
| 23790       | 710.0           | 10                      | 6.22                       | $\leq 13.00$ | Pass   |



|               |                |           |            |
|---------------|----------------|-----------|------------|
| Product       | LTE Module     | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo      | Test Date | 2021/10/22 |
| Test Band     | LTE Band 38/41 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 40620       | 2593.0          | 20                      | 8.73                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 40620       | 2593.0          | 20                      | 9.07                       | ≤ 13.00    | Pass   |



|               |             |           |            |
|---------------|-------------|-----------|------------|
| Product       | LTE Module  | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo   | Test Date | 2021/10/22 |
| Test Band     | LTE Band 71 |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Peak to Average Ratio (dB) | Limit (dB) | Result |
|-------------|-----------------|-------------------------|----------------------------|------------|--------|
| QPSK        |                 |                         |                            |            |        |
| 133297      | 680.5           | 20                      | 4.87                       | ≤ 13.00    | Pass   |
| 16QAM       |                 |                         |                            |            |        |
| 133297      | 680.5           | 20                      | 6.13                       | ≤ 13.00    | Pass   |



## **5.7. Conducted Spurious Emission Measurement**

### **5.7.1. Test Limit**

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

For Band 7, 38/41 the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $55 + 10 \log(P)$  dB.

### **5.7.2. Test Procedure**

ANSI C63.26-2015 - Section 5.7

### **5.7.3. Test Setting**

1. Set the analyzer frequency to low, mid, high channel.
  2. RBW = 1MHz
  3. VBW  $\geq 3 \times$  RBW
  4. Sweep time = auto
  5. Detector = power averaging (rms)
  6. Set sweep trigger to "free run."
  7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
  8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple.
- To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

### 5.7.4.Test Setup



### 5.7.5.Test Result

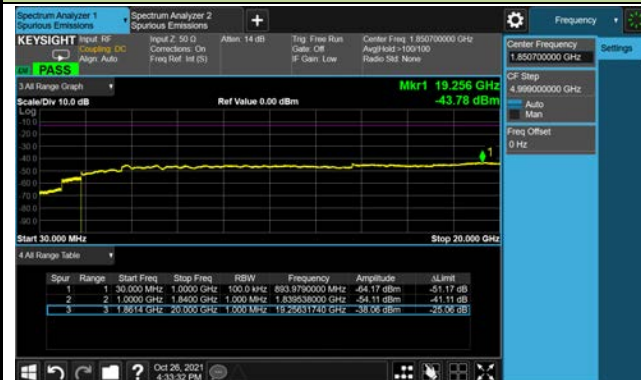
|               |                        |           |                       |
|---------------|------------------------|-----------|-----------------------|
| Product       | LTE Module             | Test Site | SIP-SR1               |
| Test Engineer | Candy Luo              | Test Date | 2021/10/26~2021/11/15 |
| Test Band     | LTE Band 2/25_1RB_QPSK |           |                       |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 26047   | 1850.7          | 1.4                     | 30 ~ 20000            | -38.06                       | ≤ -13.00    | Pass   |
| 26365   | 1882.5          | 1.4                     | 30 ~ 20000            | -38.02                       | ≤ -13.00    | Pass   |
| 26683   | 1914.3          | 1.4                     | 30 ~ 20000            | -37.52                       | ≤ -13.00    | Pass   |
| 26055   | 1851.5          | 3                       | 30 ~ 20000            | -38.17                       | ≤ -13.00    | Pass   |
| 26365   | 1882.5          | 3                       | 30 ~ 20000            | -37.46                       | ≤ -13.00    | Pass   |
| 26675   | 1913.5          | 3                       | 30 ~ 20000            | -36.24                       | ≤ -13.00    | Pass   |
| 26065   | 1852.5          | 5                       | 30 ~ 20000            | -37.59                       | ≤ -13.00    | Pass   |
| 26365   | 1882.5          | 5                       | 30 ~ 20000            | -36.96                       | ≤ -13.00    | Pass   |
| 26665   | 1912.5          | 5                       | 30 ~ 20000            | -37.94                       | ≤ -13.00    | Pass   |
| 16390   | 1855.0          | 10                      | 30 ~ 20000            | -37.15                       | ≤ -13.00    | Pass   |
| 26365   | 1882.5          | 10                      | 30 ~ 20000            | -36.37                       | ≤ -13.00    | Pass   |
| 26640   | 1910.0          | 10                      | 30 ~ 20000            | -37.77                       | ≤ -13.00    | Pass   |
| 26115   | 1857.5          | 15                      | 30 ~ 20000            | -37.83                       | ≤ -13.00    | Pass   |
| 26365   | 1882.5          | 15                      | 30 ~ 20000            | -37.51                       | ≤ -13.00    | Pass   |
| 26615   | 1907.5          | 15                      | 30 ~ 20000            | -37.38                       | ≤ -13.00    | Pass   |
| 26140   | 1860.0          | 20                      | 30 ~ 20000            | -37.53                       | ≤ -13.00    | Pass   |
| 26365   | 1882.5          | 20                      | 30 ~ 20000            | -38.23                       | ≤ -13.00    | Pass   |
| 26590   | 1905.0          | 20                      | 30 ~ 20000            | -37.68                       | ≤ -13.00    | Pass   |

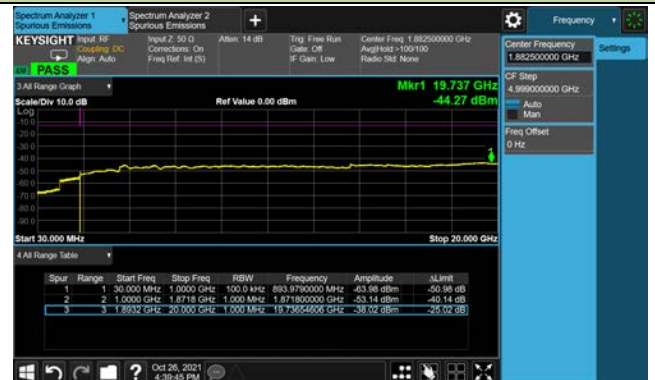
Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

## 1.4MHz Channel Bandwidth

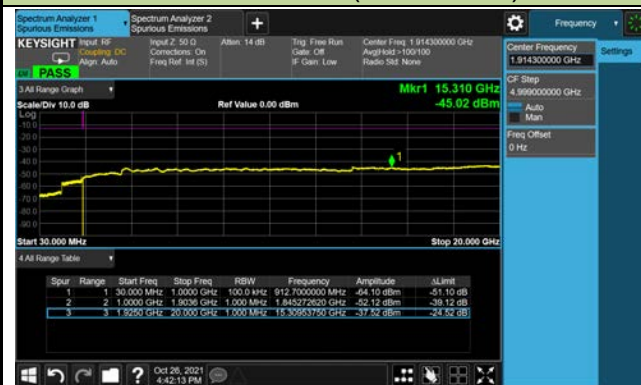
### Channel 26047 (1850.7MHz)



### Channel 26365 (1882.5MHz)

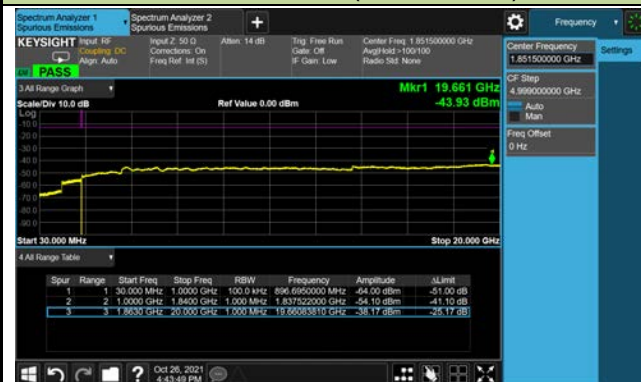


### Channel 26683 (1914.3MHz)

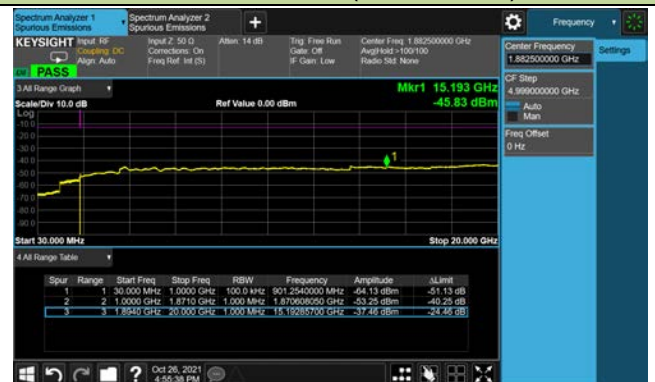


## 3MHz Channel Bandwidth

### Channel 26055 (1851.5MHz)



### Channel 26365 (1882.5MHz)

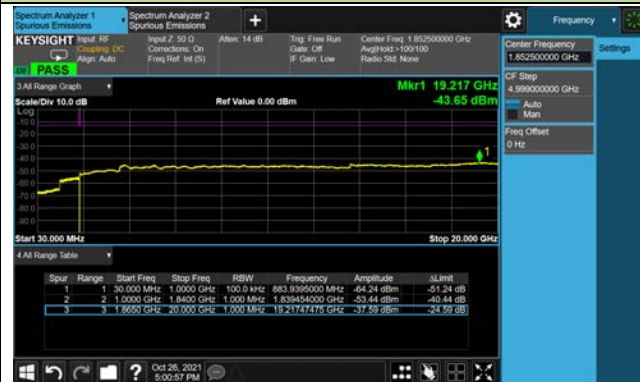


### Channel 26675 (1913.5MHz)

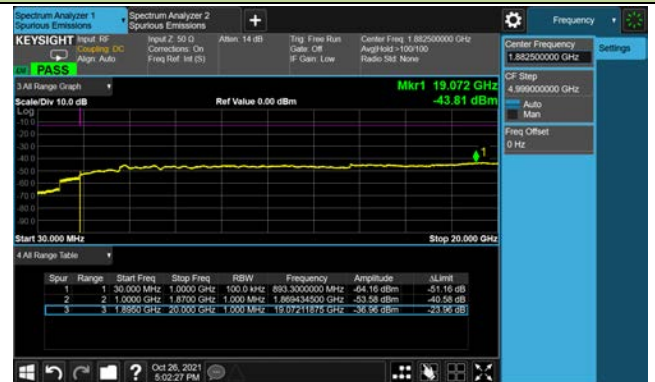


## 5MHz Channel Bandwidth

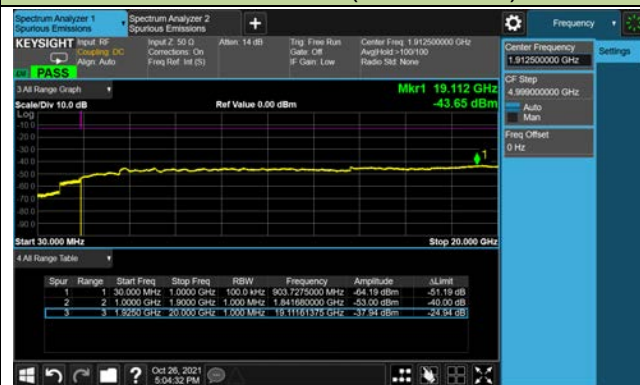
### Channel 26065 (1852.5MHz)



### Channel 26365 (1882.5MHz)

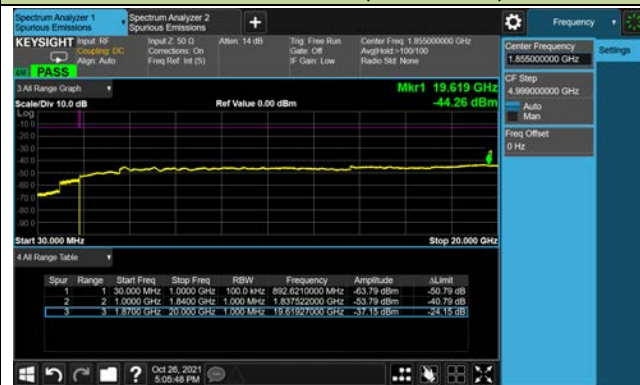


### Channel 26665 (1912.5MHz)

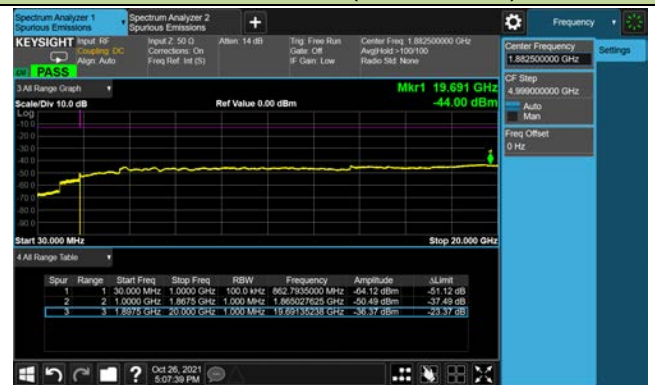


## 10MHz Channel Bandwidth

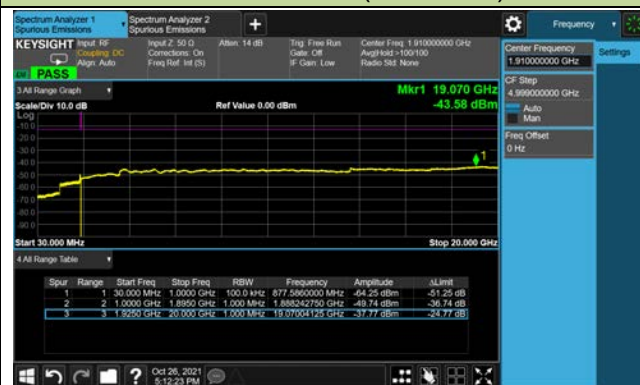
### Channel 16390 (1855MHz)



### Channel 26365 (1882.5MHz)

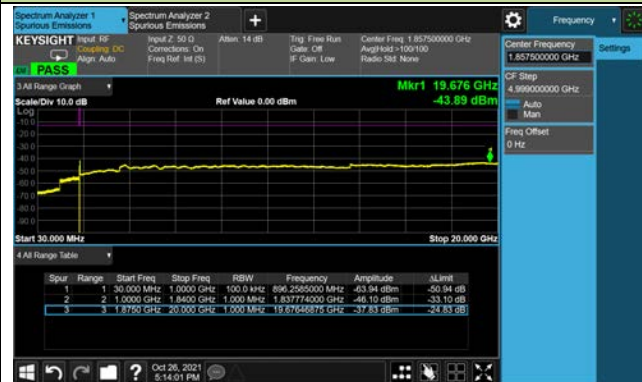


### Channel 26640 (1910MHz)

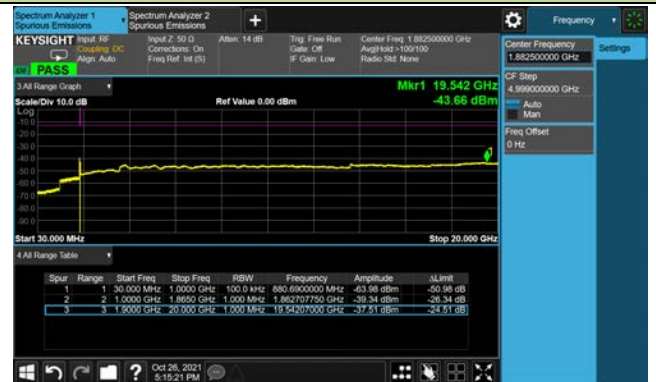


## 15MHz Channel Bandwidth

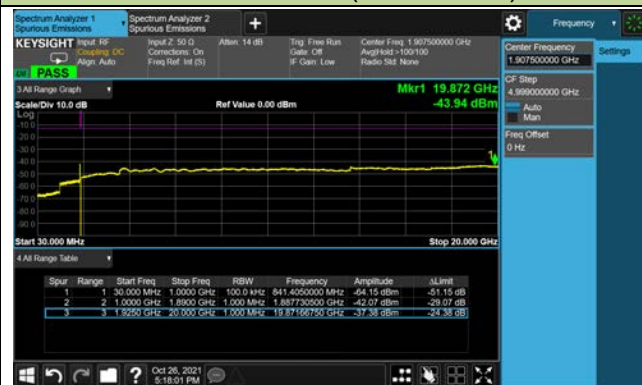
### Channel 26115 (1857MHz)



### Channel 26365 (1882.5MHz)

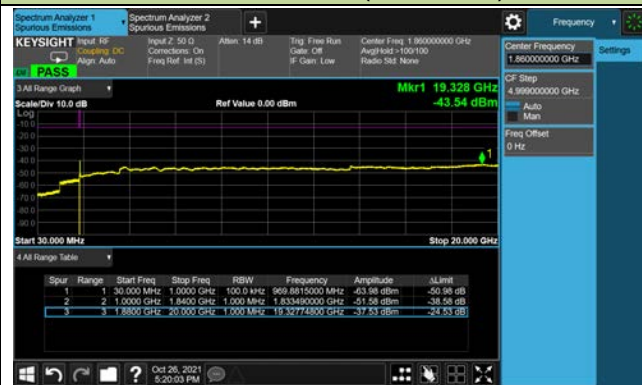


### Channel 26615 (1907.5MHz)

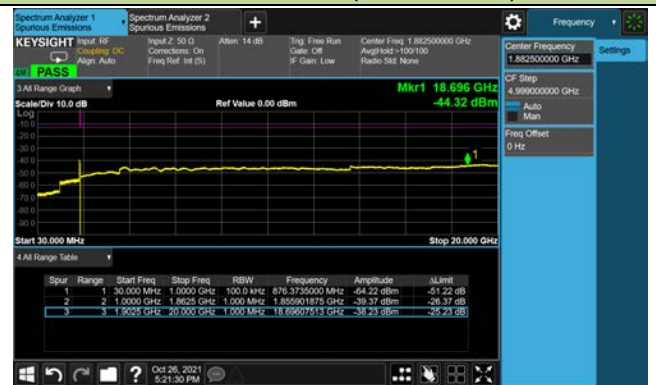


## 20MHz Channel Bandwidth

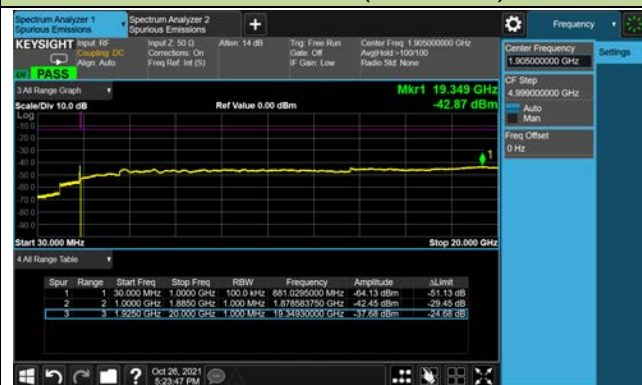
### Channel 26140 (1860MHz)



### Channel 26365 (1882.5MHz)



### Channel 26590 (1905MHz)



|               |                        |           |            |
|---------------|------------------------|-----------|------------|
| Product       | LTE Module             | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo              | Test Date | 2021/10/27 |
| Test Band     | LTE Band 4/66_1RB_QPSK |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 131979  | 1710.7          | 1.4                     | 30 ~ 20000            | -36.23                       | ≤ -13.00    | Pass   |
| 132322  | 1745.0          | 1.4                     | 30 ~ 20000            | -36.33                       | ≤ -13.00    | Pass   |
| 132665  | 1779.3          | 1.4                     | 30 ~ 20000            | -35.83                       | ≤ -13.00    | Pass   |
| 131987  | 1711.5          | 3                       | 30 ~ 20000            | -36.71                       | ≤ -13.00    | Pass   |
| 132322  | 1745.0          | 3                       | 30 ~ 20000            | -36.08                       | ≤ -13.00    | Pass   |
| 132657  | 1778.5          | 3                       | 30 ~ 20000            | -36.25                       | ≤ -13.00    | Pass   |
| 131997  | 1712.5          | 5                       | 30 ~ 20000            | -36.49                       | ≤ -13.00    | Pass   |
| 132322  | 1745.0          | 5                       | 30 ~ 20000            | -36.52                       | ≤ -13.00    | Pass   |
| 132647  | 1777.5          | 5                       | 30 ~ 20000            | -36.34                       | ≤ -13.00    | Pass   |
| 132022  | 1715.0          | 10                      | 30 ~ 20000            | -36.19                       | ≤ -13.00    | Pass   |
| 132322  | 1745.0          | 10                      | 30 ~ 20000            | -36.40                       | ≤ -13.00    | Pass   |
| 132622  | 1775.0          | 10                      | 30 ~ 20000            | -36.79                       | ≤ -13.00    | Pass   |
| 132047  | 1717.5          | 15                      | 30 ~ 20000            | -35.47                       | ≤ -13.00    | Pass   |
| 132322  | 1745.0          | 15                      | 30 ~ 20000            | -37.02                       | ≤ -13.00    | Pass   |
| 132597  | 1772.5          | 15                      | 30 ~ 20000            | -36.05                       | ≤ -13.00    | Pass   |
| 132072  | 1720.0          | 20                      | 30 ~ 20000            | -36.31                       | ≤ -13.00    | Pass   |
| 132322  | 1745.0          | 20                      | 30 ~ 20000            | -36.35                       | ≤ -13.00    | Pass   |
| 132572  | 1770.0          | 20                      | 30 ~ 20000            | -35.69                       | ≤ -13.00    | Pass   |

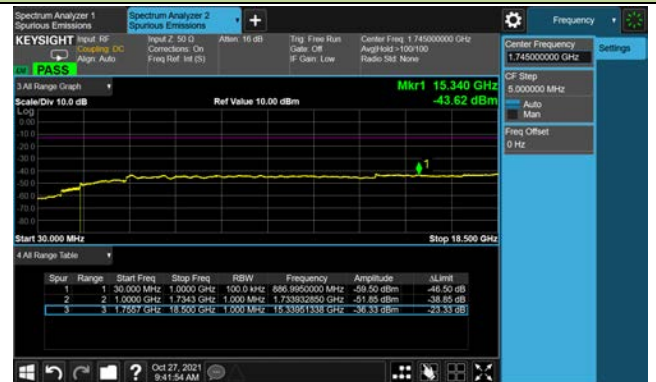
Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

## 1.4MHz Channel Bandwidth

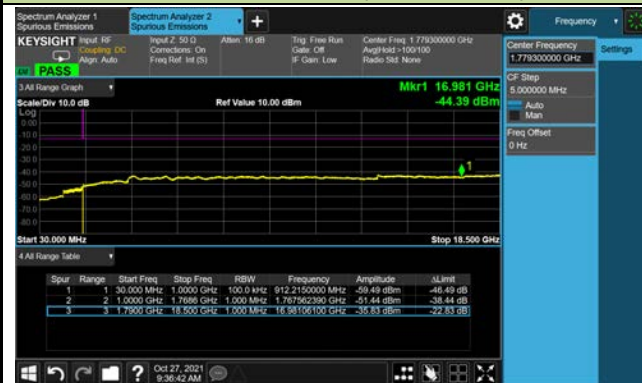
### Channel 131979 (1710.7MHz)



### Channel 132322 (1745MHz)

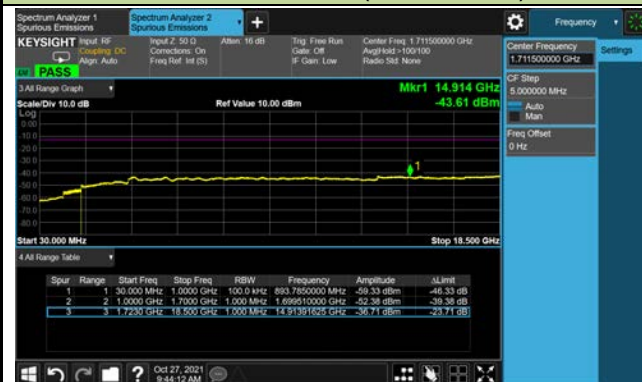


### Channel 132665 (1779.3MHz)

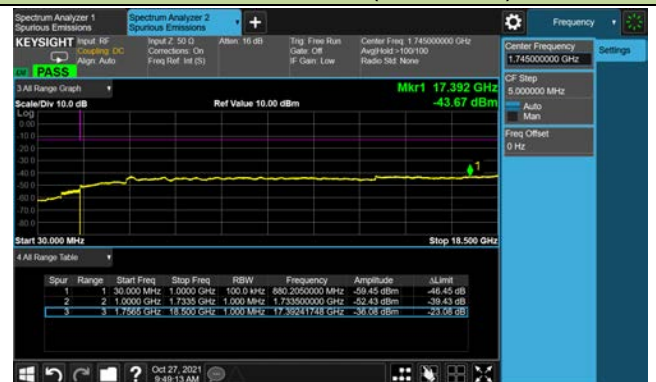


## 3MHz Channel Bandwidth

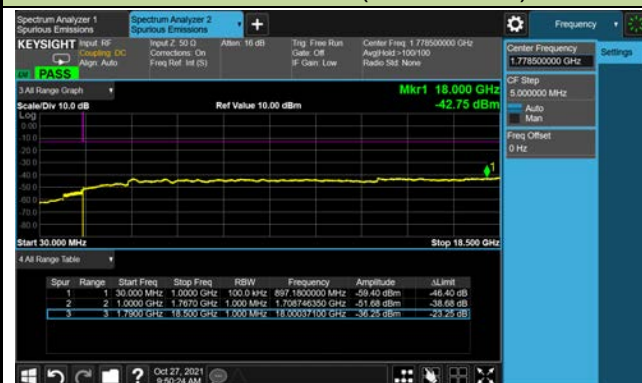
### Channel 131987 (1711.5MHz)



### Channel 132322 (1745MHz)

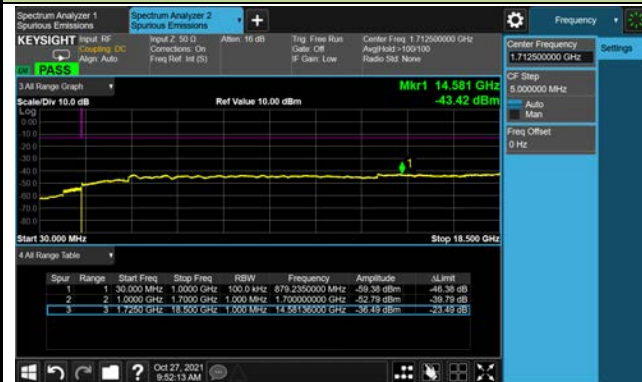


### Channel 132657 (1778.5MHz)

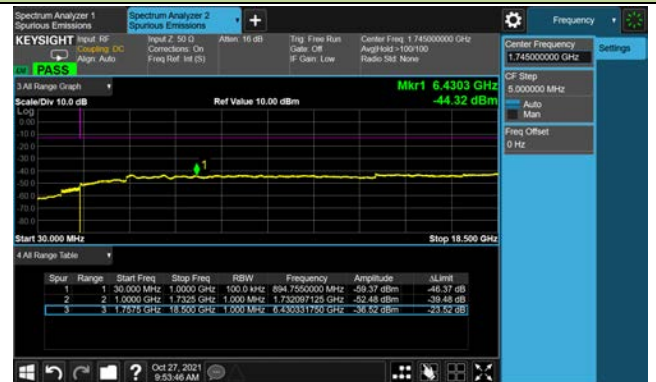


### 5MHz Channel Bandwidth

#### Channel 131997 (1712.5MHz)



#### Channel 132322 (1745MHz)

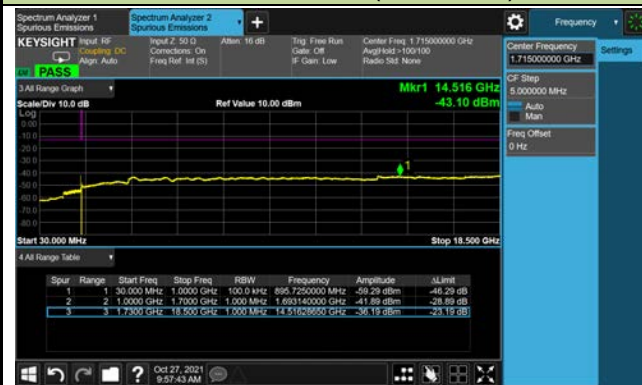


#### Channel 132647 (1777.5MHz)

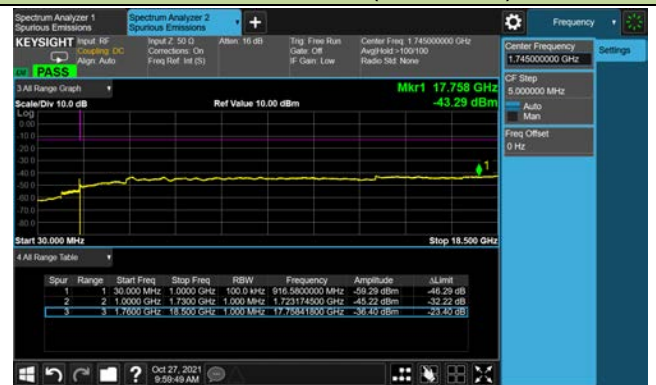


### 10MHz Channel Bandwidth

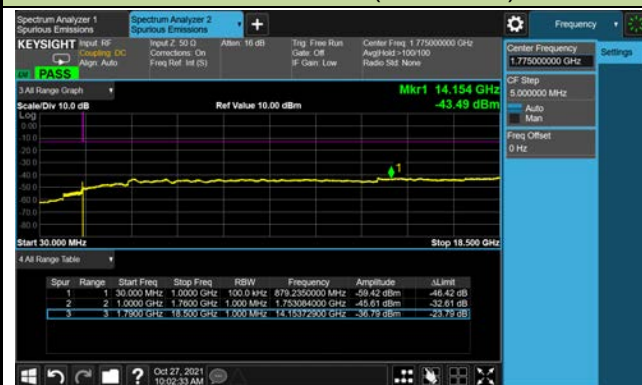
#### Channel 132022 (1715MHz)



#### Channel 132322 (1745MHz)



#### Channel 132622 (1775MHz)

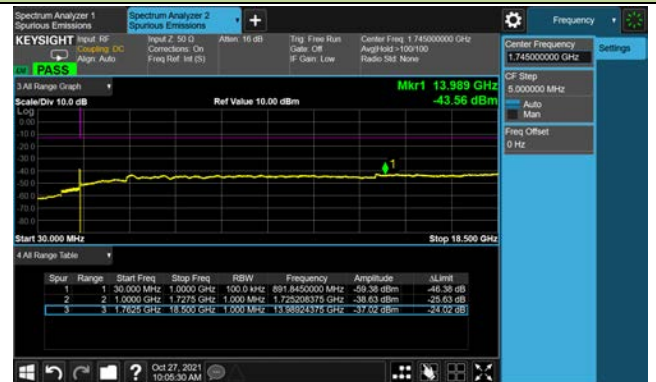


## 15MHz Channel Bandwidth

## Channel 132047 (1717.5MHz)



## Channel 132322 (1745MHz)

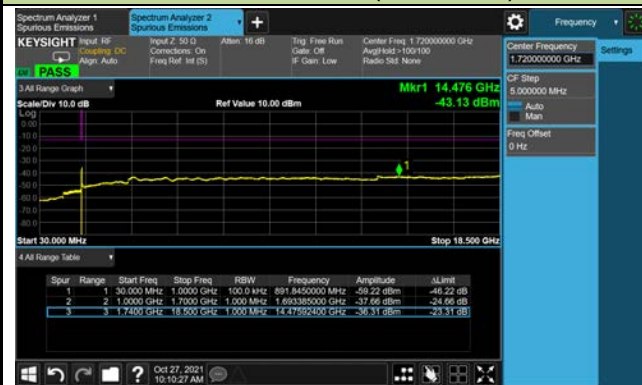


## Channel 132597 (1772.5Hz)

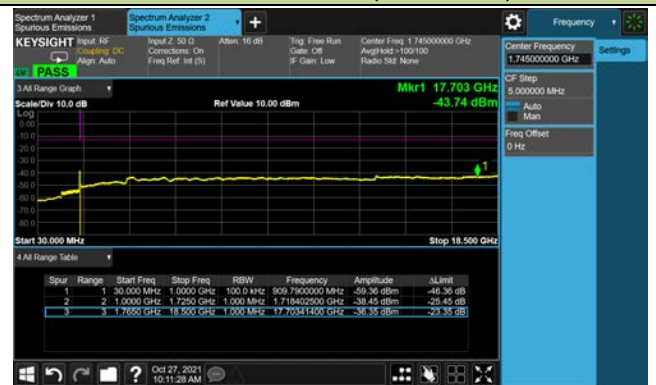


## 20MHz Channel Bandwidth

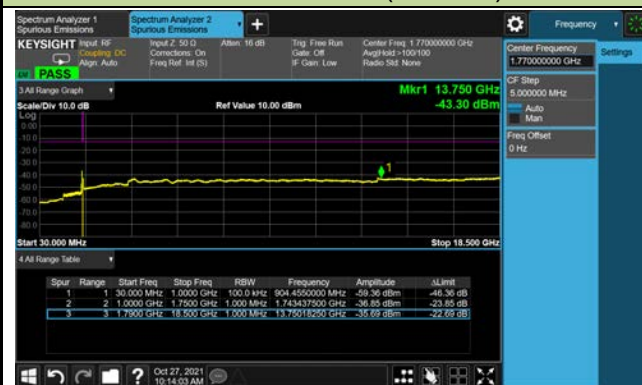
## Channel 132072 (1720MHz)



## Channel 132322 (1745MHz)



## Channel 132572 (1770Hz)



|               |                        |           |            |
|---------------|------------------------|-----------|------------|
| Product       | LTE Module             | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo              | Test Date | 2021/10/27 |
| Test Band     | LTE Band 5/26_1RB_QPSK |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 26797   | 824.7           | 1.4                     | 30 ~ 10000            | -36.38                       | ≤ -13.00    | Pass   |
| 26915   | 836.5           | 1.4                     | 30 ~ 10000            | -37.39                       | ≤ -13.00    | Pass   |
| 27033   | 848.3           | 1.4                     | 30 ~ 10000            | -37.51                       | ≤ -13.00    | Pass   |
| 26805   | 825.5           | 3                       | 30 ~ 10000            | -37.48                       | ≤ -13.00    | Pass   |
| 26915   | 836.5           | 3                       | 30 ~ 10000            | -38.21                       | ≤ -13.00    | Pass   |
| 27025   | 847.5           | 3                       | 30 ~ 10000            | -37.72                       | ≤ -13.00    | Pass   |
| 26815   | 826.5           | 5                       | 30 ~ 10000            | -37.60                       | ≤ -13.00    | Pass   |
| 26915   | 836.5           | 5                       | 30 ~ 10000            | -37.48                       | ≤ -13.00    | Pass   |
| 27015   | 846.5           | 5                       | 30 ~ 10000            | -36.83                       | ≤ -13.00    | Pass   |
| 26840   | 829.0           | 10                      | 30 ~ 10000            | -37.64                       | ≤ -13.00    | Pass   |
| 26915   | 836.5           | 10                      | 30 ~ 10000            | -38.05                       | ≤ -13.00    | Pass   |
| 26990   | 844.0           | 10                      | 30 ~ 10000            | -38.21                       | ≤ -13.00    | Pass   |
| 26865   | 831.5           | 15                      | 30 ~ 10000            | -36.57                       | ≤ -13.00    | Pass   |
| 26915   | 836.5           | 15                      | 30 ~ 10000            | -38.15                       | ≤ -13.00    | Pass   |
| 26965   | 841.5           | 15                      | 30 ~ 10000            | -37.54                       | ≤ -13.00    | Pass   |

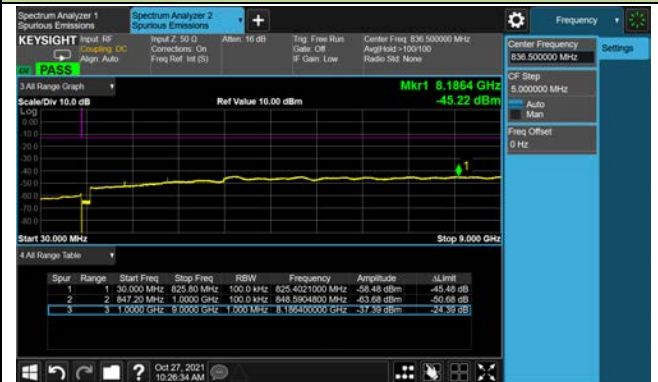
Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

## 1.4MHz Channel Bandwidth

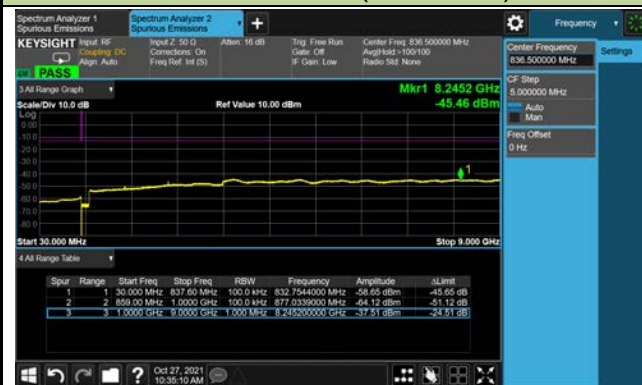
### Channel 26697 (814.7MHz)



### Channel 25865 (831.5MHz)

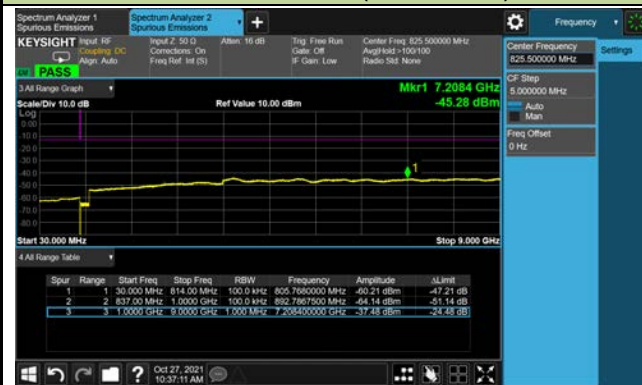


### Channel 27033 (848.3MHz)

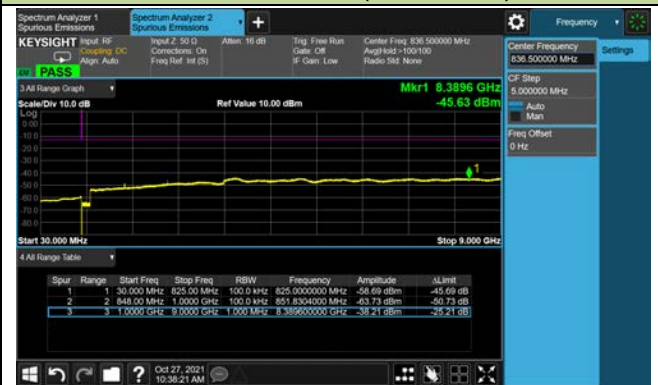


## 3MHz Channel Bandwidth

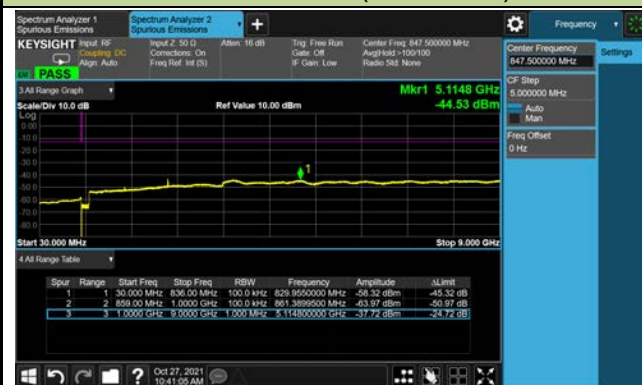
### Channel 26705 (815.5MHz)



### Channel 26865 (831.5MHz)

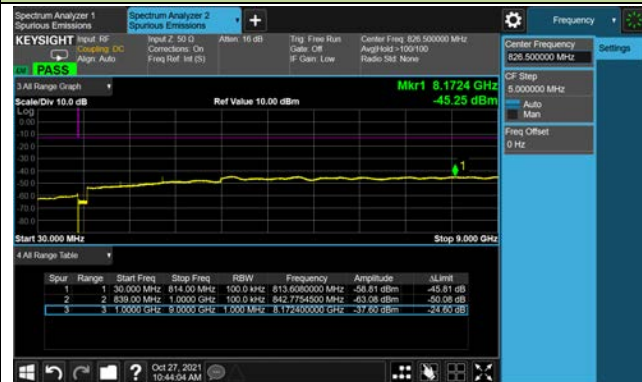


### Channel 27025 (847.5MHz)

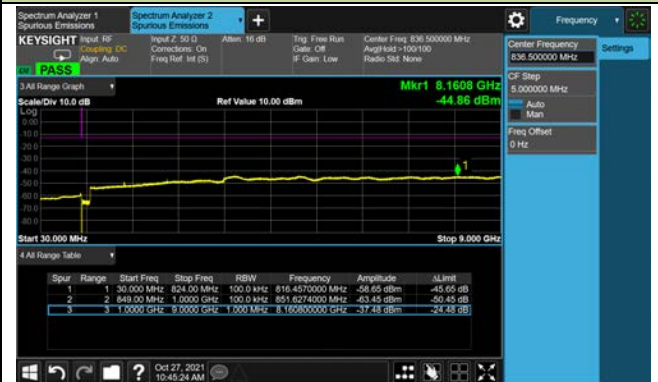


### 5MHz Channel Bandwidth

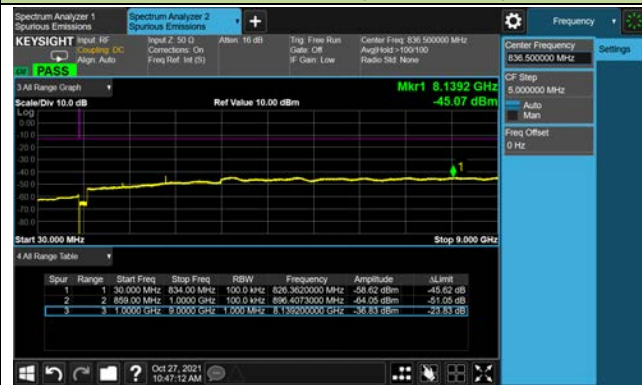
#### Channel 26715 (816.5MHz)



#### Channel 26865 (831.5MHz)

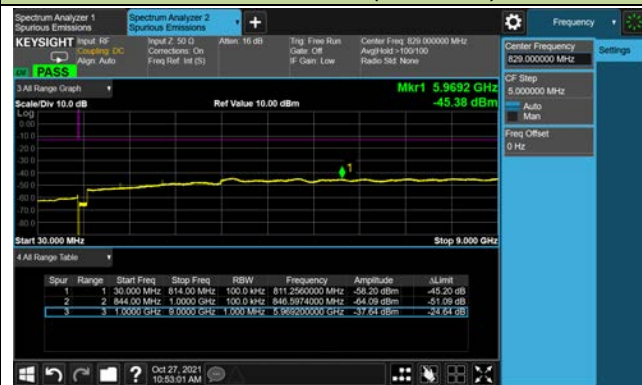


#### Channel 27015 (846.5MHz)

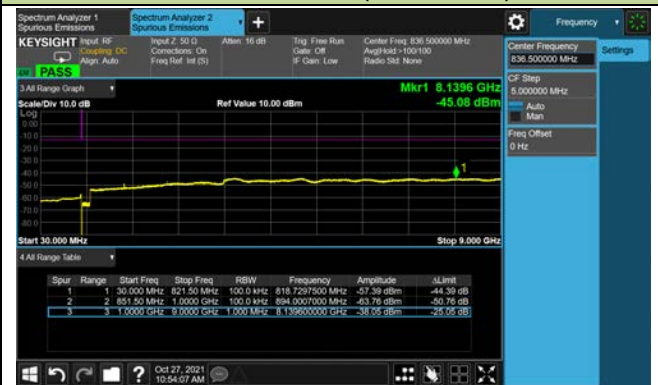


### 10MHz Channel Bandwidth

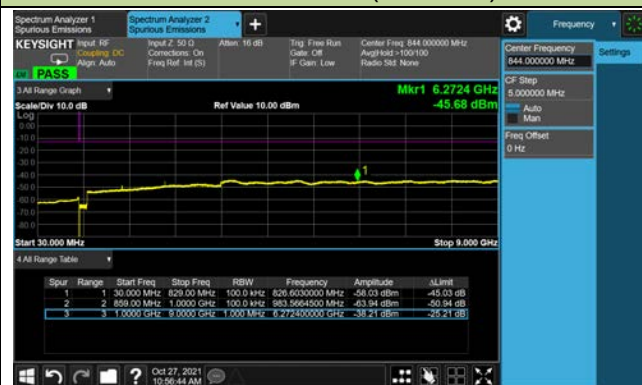
#### Channel 26740 (819MHz)



#### Channel 26865 (831.5MHz)

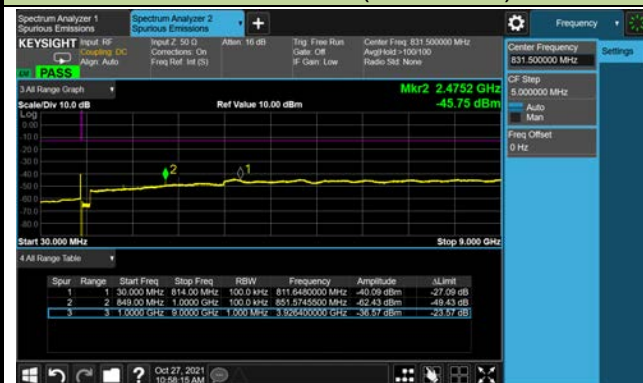


#### Channel 26990 (844MHz)

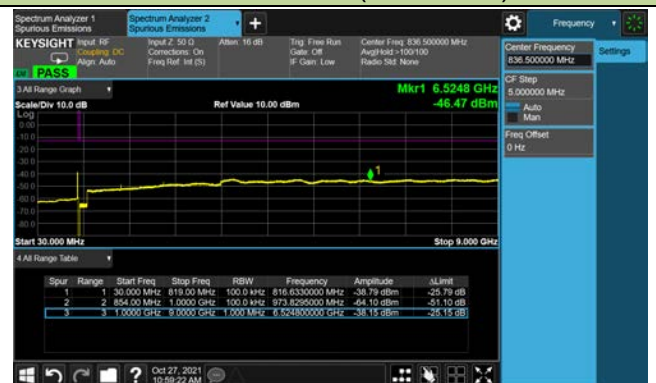


# 15MHz Channel Bandwidth

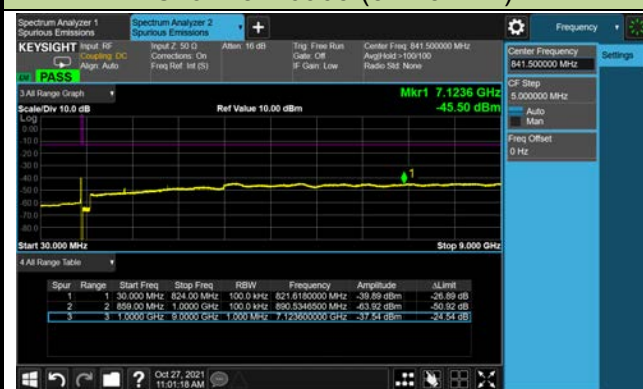
## Channel 26865 (831.5MHz)



## Channel 26915 (836.5MHz)



## Channel 26965 (841.5MHz)



|               |                     |           |            |
|---------------|---------------------|-----------|------------|
| Product       | LTE Module          | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo           | Test Date | 2021/12/05 |
| Test Band     | LTE Band 7_1RB_QPSK |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 20775   | 2502.5          | 5                       | 30 ~ 26000            | -38.14                       | ≤ -25.00    | Pass   |
| 21100   | 2535.0          | 5                       | 30 ~ 26000            | -38.18                       | ≤ -25.00    | Pass   |
| 21425   | 2567.5          | 5                       | 30 ~ 26000            | -38.11                       | ≤ -25.00    | Pass   |
| 20800   | 2505.0          | 10                      | 30 ~ 26000            | -38.00                       | ≤ -25.00    | Pass   |
| 21100   | 2535.0          | 10                      | 30 ~ 26000            | -38.06                       | ≤ -25.00    | Pass   |
| 21400   | 2565.0          | 10                      | 30 ~ 26000            | -38.06                       | ≤ -25.00    | Pass   |
| 20825   | 2507.5          | 15                      | 30 ~ 26000            | -38.03                       | ≤ -25.00    | Pass   |
| 21100   | 2535.0          | 15                      | 30 ~ 26000            | -37.92                       | ≤ -25.00    | Pass   |
| 21375   | 2562.5          | 15                      | 30 ~ 26000            | -38.04                       | ≤ -25.00    | Pass   |
| 20850   | 2510.0          | 20                      | 30 ~ 26000            | -37.80                       | ≤ -25.00    | Pass   |
| 21100   | 2535.0          | 20                      | 30 ~ 26000            | -38.04                       | ≤ -25.00    | Pass   |
| 21350   | 2560.0          | 20                      | 30 ~ 26000            | -38.07                       | ≤ -25.00    | Pass   |

Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

### 5MHz Channel Bandwidth

#### Channel 20775 (2502.5MHz)/



#### Channel 21100 (2535MHz)



#### Channel 21425 (2567.5MHz)



### 10MHz Channel Bandwidth

#### Channel 20800 (2505MHz)



#### Channel 21100 (2535MHz)



#### Channel 21400 (2565MHz)



## 15MHz Channel Bandwidth

## Channel 20825 (2507.5MHz)



## Channel 21100 (2535MHz)



## Channel 21375 (2562.5MHz)



## 20MHz Channel Bandwidth

## Channel 20850 (2510MHz)



## Channel 21100 (2535MHz)



## Channel 21350 (2560MHz)



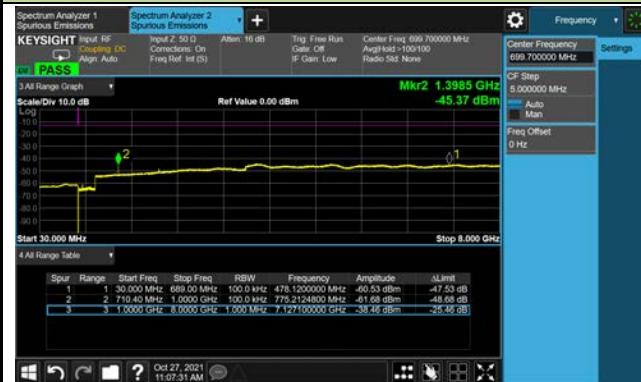
|               |                      |           |            |
|---------------|----------------------|-----------|------------|
| Product       | LTE Module           | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo            | Test Date | 2021/10/27 |
| Test Band     | LTE Band 12_1RB_QPSK |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 23017   | 699.7           | 1.4                     | 30 ~ 10000            | -38.46                       | ≤ -13.00    | Pass   |
| 23095   | 707.5           | 1.4                     | 30 ~ 10000            | -37.60                       | ≤ -13.00    | Pass   |
| 23173   | 715.3           | 1.4                     | 30 ~ 10000            | -38.24                       | ≤ -13.00    | Pass   |
| 23025   | 700.5           | 3                       | 30 ~ 10000            | -38.54                       | ≤ -13.00    | Pass   |
| 23095   | 707.5           | 3                       | 30 ~ 10000            | -38.00                       | ≤ -13.00    | Pass   |
| 23165   | 714.5           | 3                       | 30 ~ 10000            | -38.16                       | ≤ -13.00    | Pass   |
| 23035   | 701.5           | 5                       | 30 ~ 10000            | -37.73                       | ≤ -13.00    | Pass   |
| 23095   | 707.5           | 5                       | 30 ~ 10000            | -38.22                       | ≤ -13.00    | Pass   |
| 23155   | 713.5           | 5                       | 30 ~ 10000            | -37.11                       | ≤ -13.00    | Pass   |
| 23060   | 704.0           | 10                      | 30 ~ 10000            | -38.48                       | ≤ -13.00    | Pass   |
| 23095   | 707.5           | 10                      | 30 ~ 10000            | -38.01                       | ≤ -13.00    | Pass   |
| 23130   | 711.0           | 10                      | 30 ~ 10000            | -37.96                       | ≤ -13.00    | Pass   |

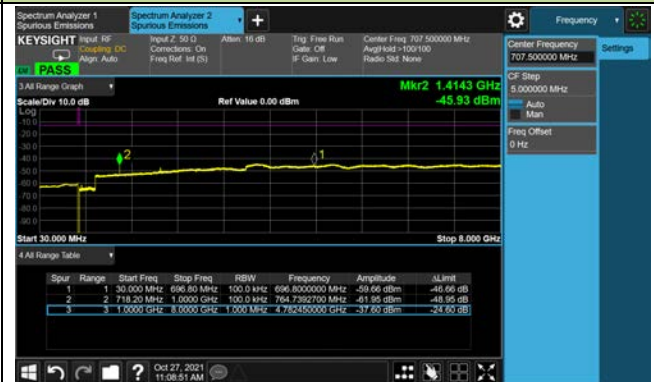
Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

## 1.4MHz Channel Bandwidth

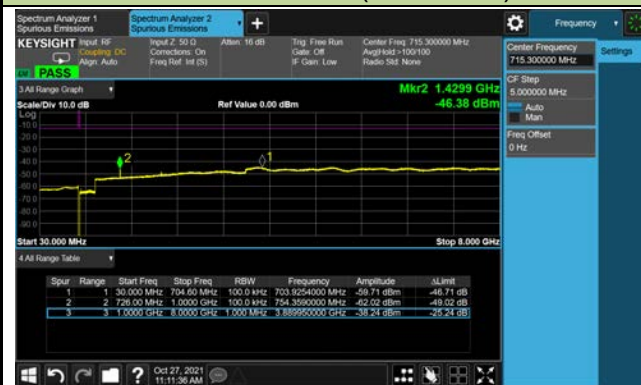
### Channel 23017 (699.7MHz)



### Channel 23095 (707.5MHz)

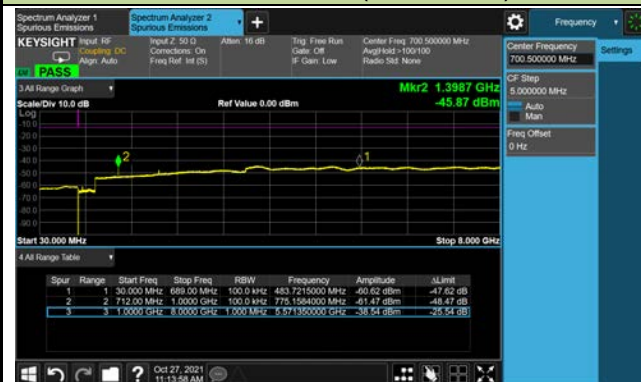


### Channel 23173 (715.3MHz)

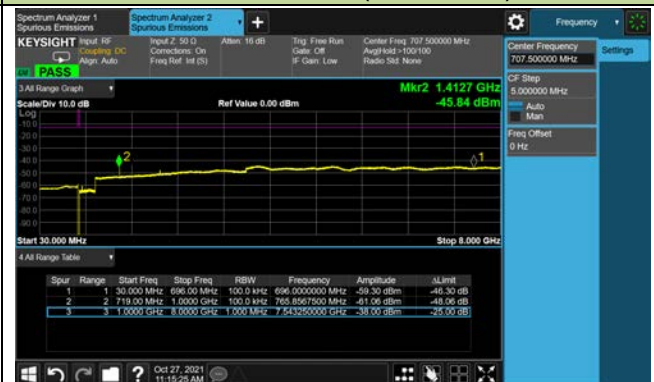


## 3MHz Channel Bandwidth

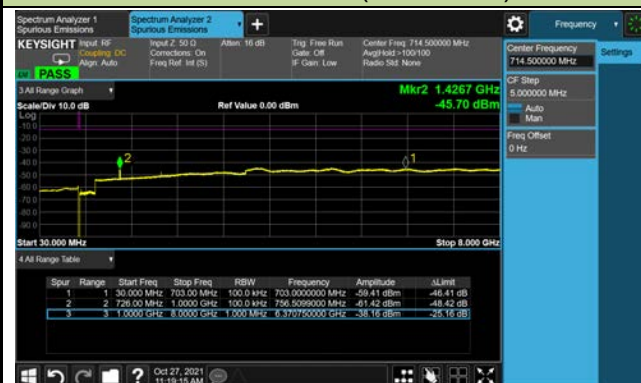
### Channel 23025 (700.5MHz)



### Channel 23095 (707.5MHz)

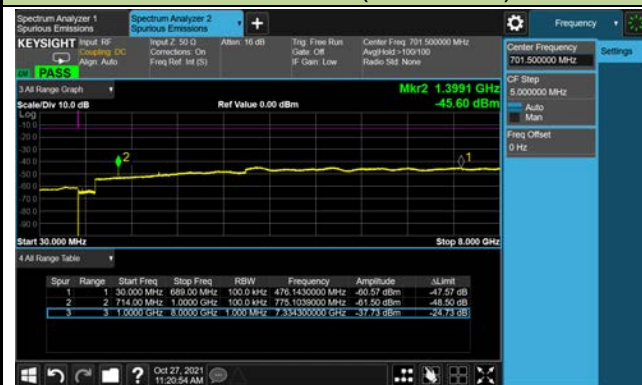


### Channel 23165 (714.5MHz)

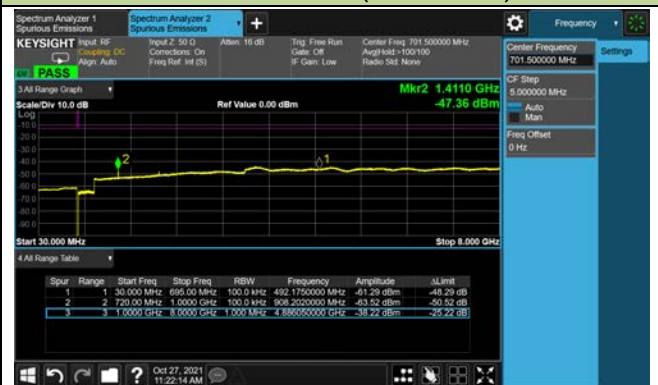


## 5MHz Channel Bandwidth

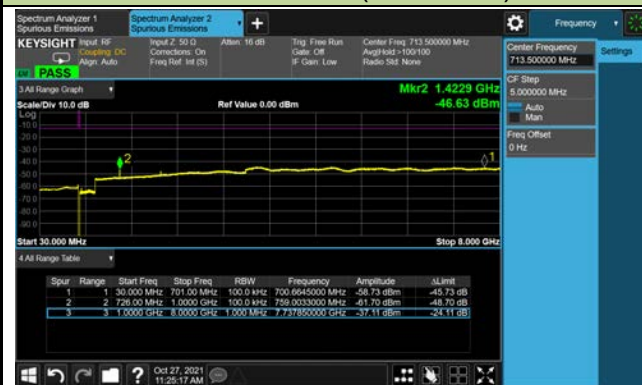
### Channel 23035 (701.5MHz)



### Channel 23095 (707.5MHz)

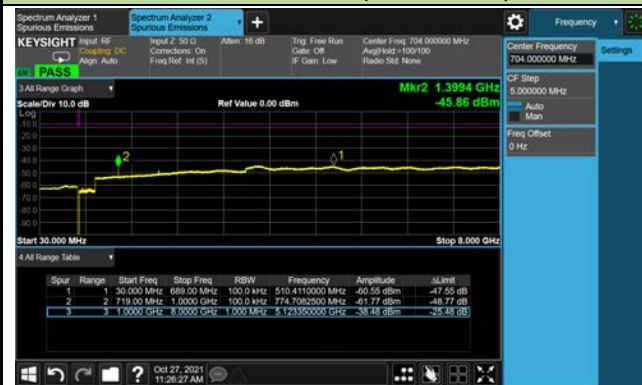


### Channel 23165 (714.5MHz)



## 10MHz Channel Bandwidth

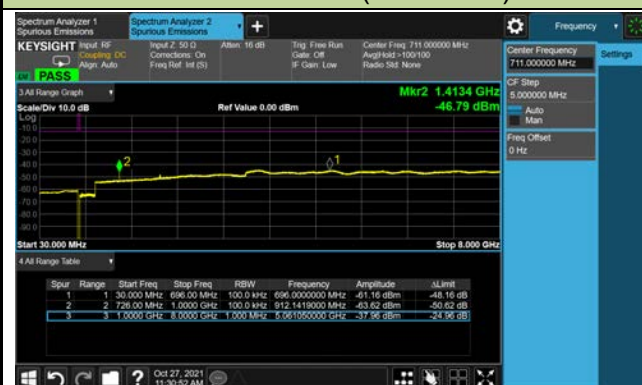
### Channel 23060 (704.0MHz)



### Channel 23095 (707.5MHz)



### Channel 23130 (711.0MHz)



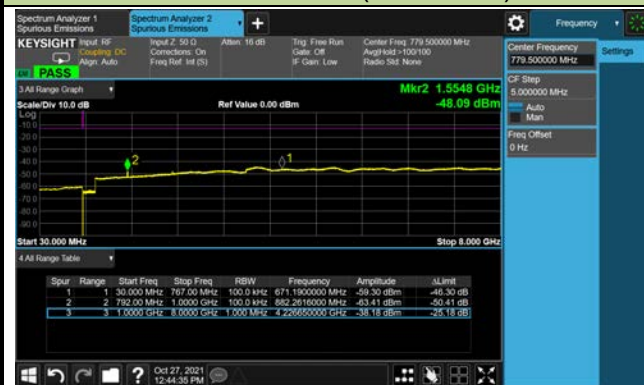
|               |                      |           |            |
|---------------|----------------------|-----------|------------|
| Product       | LTE Module           | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo            | Test Date | 2021/10/27 |
| Test Band     | LTE Band 13_1RB_QPSK |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 23205   | 779.5           | 5                       | 30 ~ 10000            | -38.18                       | ≤ -13.00    | Pass   |
| 23230   | 782.0           | 5                       | 30 ~ 10000            | -37.56                       | ≤ -13.00    | Pass   |
| 23255   | 784.5           | 5                       | 30 ~ 10000            | -36.73                       | ≤ -13.00    | Pass   |
| 23230   | 782.0           | 10                      | 30 ~ 10000            | -37.54                       | ≤ -13.00    | Pass   |

Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

### 5MHz Channel Bandwidth

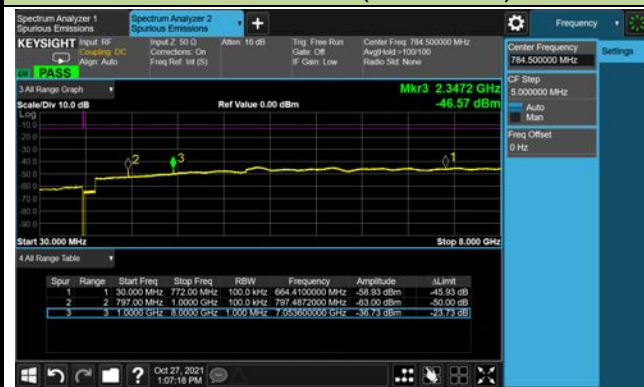
#### Channel 23205 (779.5MHz)

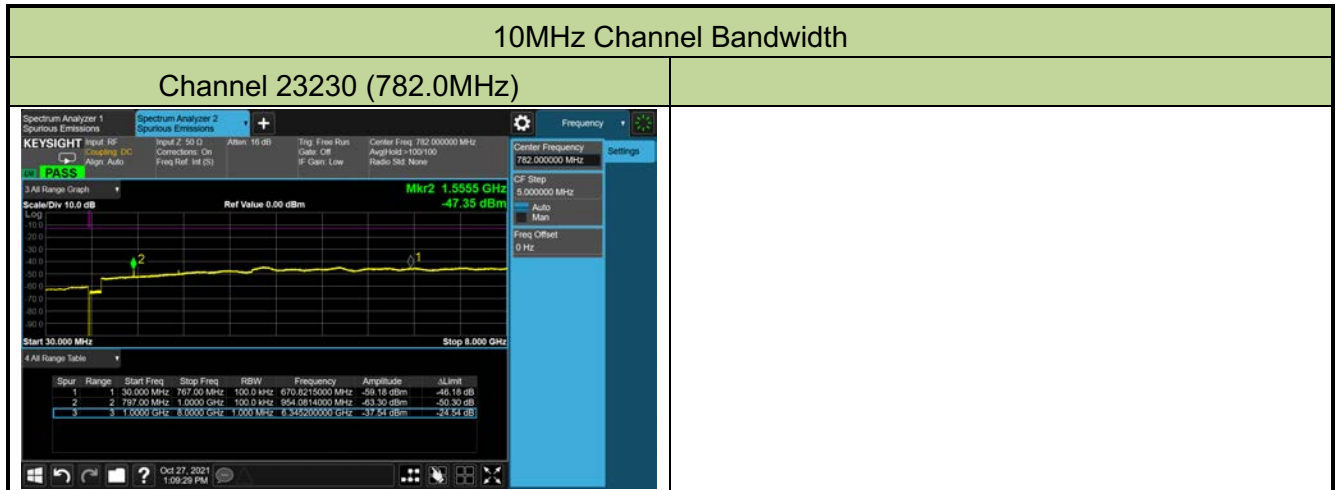


#### Channel 23230 (782MHz)



#### Channel 23255 (784.5MHz)





|               |                      |           |            |
|---------------|----------------------|-----------|------------|
| Product       | LTE Module           | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo            | Test Date | 2021/11/29 |
| Test Band     | LTE Band 17_1RB_QPSK |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 23755   | 706.5           | 5                       | 30 ~ 8000             | -35.16                       | ≤ -13.00    | Pass   |
| 23790   | 710.0           | 5                       | 30 ~ 8000             | -37.70                       | ≤ -13.00    | Pass   |
| 23825   | 713.5           | 5                       | 30 ~ 8000             | -32.55                       | ≤ -13.00    | Pass   |
| 23780   | 709.0           | 10                      | 30 ~ 8000             | -35.41                       | ≤ -13.00    | Pass   |
| 23790   | 710.0           | 10                      | 30 ~ 8000             | -35.78                       | ≤ -13.00    | Pass   |
| 23800   | 711.0           | 10                      | 30 ~ 8000             | -31.48                       | ≤ -13.00    | Pass   |

Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

### 5MHz Channel Bandwidth

#### Channel 23755 (706.5MHz)



#### Channel 23790(710.0MHz)

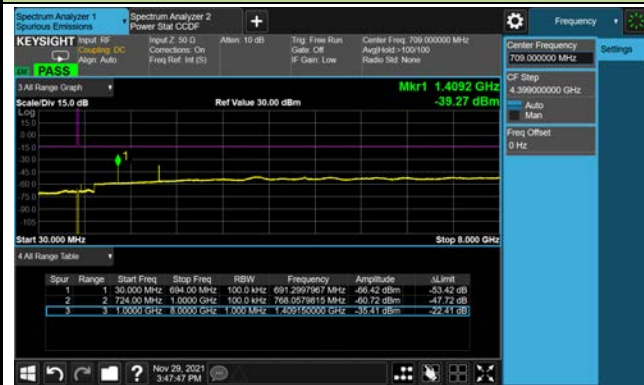


#### Channel 23825 (713.5MHz)



## 10MHz Channel Bandwidth

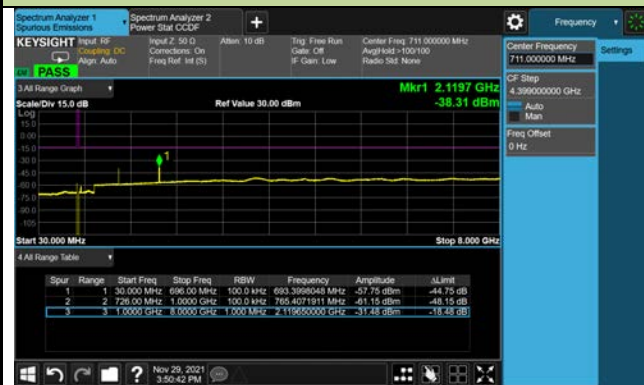
### Channel 23780 (709.0MHz)



### Channel 23790(710.0MHz)



### Channel 23800 (711MHz)



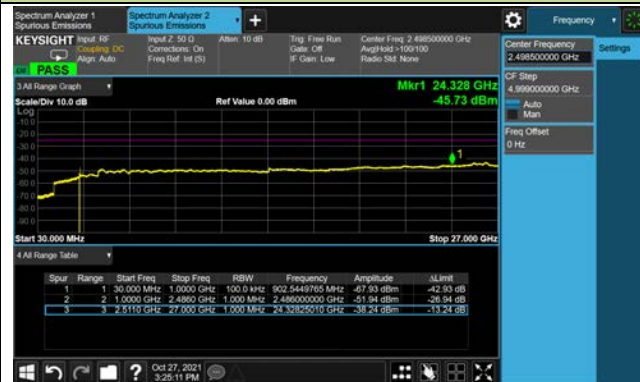
|               |                              |           |            |
|---------------|------------------------------|-----------|------------|
| Product       | LTE Module                   | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo                    | Test Date | 2021/10/27 |
| Test Band     | LTE Band 38/41_HPUE_1RB_QPSK |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 39675   | 2498.50         | 5                       | 30 ~ 27000            | -38.24                       | ≤ -25.00    | Pass   |
| 40620   | 2593.00         | 5                       | 30 ~ 27000            | -37.80                       | ≤ -25.00    | Pass   |
| 40565   | 2687.50         | 5                       | 30 ~ 27000            | -38.80                       | ≤ -25.00    | Pass   |
| 39700   | 2501.00         | 10                      | 30 ~ 27000            | -33.85                       | ≤ -25.00    | Pass   |
| 40620   | 2593.00         | 10                      | 30 ~ 27000            | -35.18                       | ≤ -25.00    | Pass   |
| 41540   | 2685.00         | 10                      | 30 ~ 27000            | -34.02                       | ≤ -25.00    | Pass   |
| 39725   | 2503.50         | 15                      | 30 ~ 27000            | -35.20                       | ≤ -25.00    | Pass   |
| 40620   | 2593.00         | 15                      | 30 ~ 27000            | -34.33                       | ≤ -25.00    | Pass   |
| 41515   | 2682.50         | 15                      | 30 ~ 27000            | -35.05                       | ≤ -25.00    | Pass   |
| 39750   | 2506.00         | 20                      | 30 ~ 27000            | -34.73                       | ≤ -25.00    | Pass   |
| 40620   | 2593.00         | 20                      | 30 ~ 27000            | -33.62                       | ≤ -25.00    | Pass   |
| 41490   | 2680.00         | 20                      | 30 ~ 27000            | -34.98                       | ≤ -25.00    | Pass   |

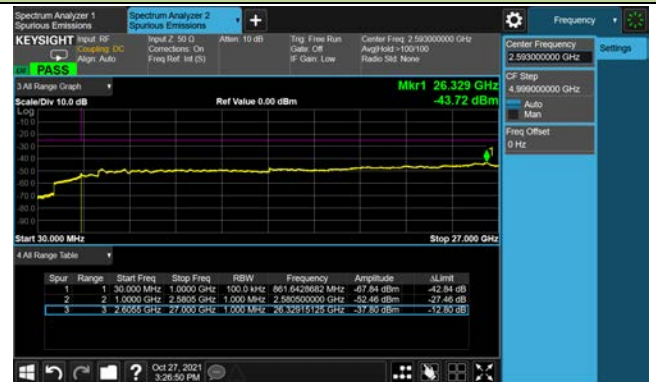
Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

### 5MHz Channel Bandwidth

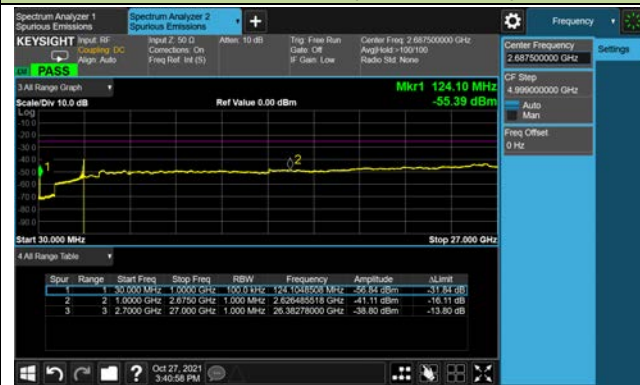
#### Channel 39675 (2498.5MHz)



#### Channel 40620 (2593MHz)



#### Channel 40565 (2687.5MHz)

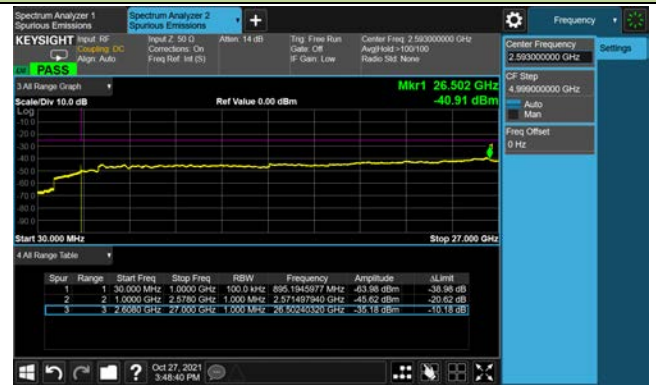


### 10MHz Channel Bandwidth

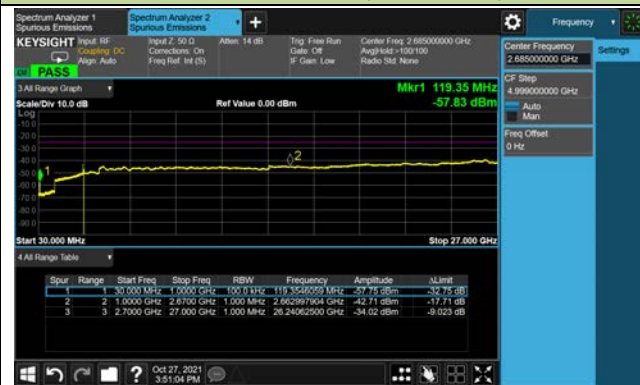
#### Channel 39700 (2501MHz)



#### Channel 40620 (2593MHz)



#### Channel 41540 (2685MHz)

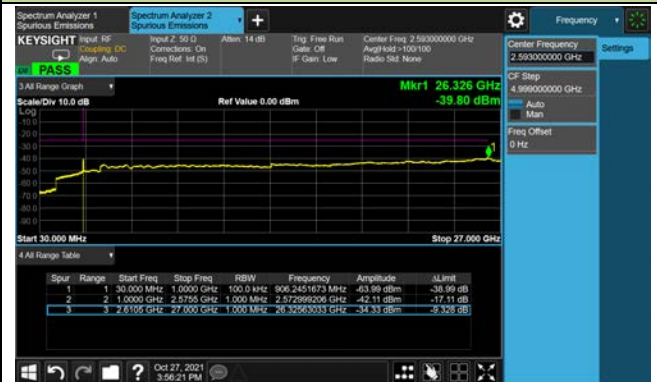


## 15MHz Channel Bandwidth

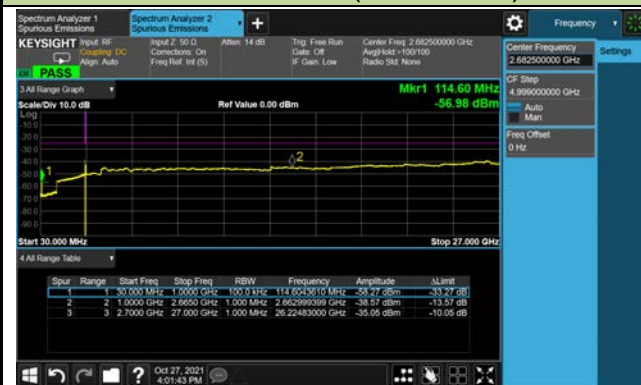
## Channel 39725 (2503.5MHz)



## Channel 40620 (2593MHz)



## Channel 41515 (2682.5MHz)

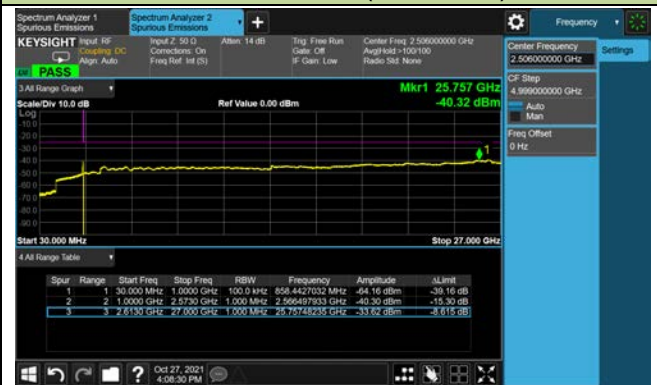


## 20MHz Channel Bandwidth

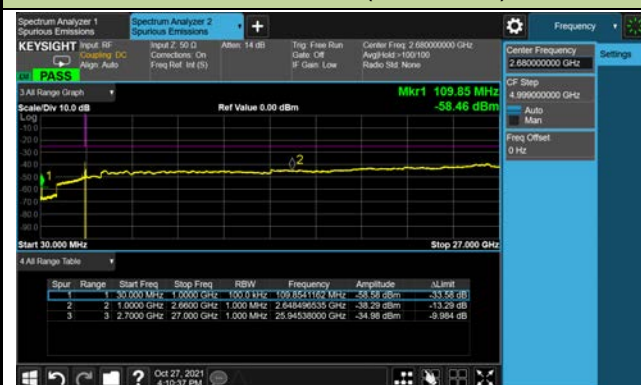
## Channel 39750 (2506MHz)



## Channel 40620 (2593MHz)



## Channel 41490 (2680MHz)



|               |                      |           |            |
|---------------|----------------------|-----------|------------|
| Product       | LTE Module           | Test Site | SIP-SR1    |
| Test Engineer | Candy Luo            | Test Date | 2021/10/27 |
| Test Band     | LTE Band 71_1RB_QPSK |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 133147  | 665.5           | 5                       | 30 ~ 10000            | -37.48                       | ≤ -13.00    | Pass   |
| 133297  | 680.5           | 5                       | 30 ~ 10000            | -37.71                       | ≤ -13.00    | Pass   |
| 133447  | 695.5           | 5                       | 30 ~ 10000            | -36.88                       | ≤ -13.00    | Pass   |
| 133172  | 668.0           | 10                      | 30 ~ 10000            | -37.69                       | ≤ -13.00    | Pass   |
| 133297  | 680.5           | 10                      | 30 ~ 10000            | -38.52                       | ≤ -13.00    | Pass   |
| 133422  | 693.0           | 10                      | 30 ~ 10000            | -37.44                       | ≤ -13.00    | Pass   |
| 133197  | 670.5           | 15                      | 30 ~ 10000            | -37.95                       | ≤ -13.00    | Pass   |
| 133297  | 680.5           | 15                      | 30 ~ 10000            | -38.02                       | ≤ -13.00    | Pass   |
| 133397  | 690.5           | 15                      | 30 ~ 10000            | -37.61                       | ≤ -13.00    | Pass   |
| 133222  | 673.0           | 20                      | 30 ~ 10000            | -37.72                       | ≤ -13.00    | Pass   |
| 133322  | 683.0           | 20                      | 30 ~ 10000            | -37.28                       | ≤ -13.00    | Pass   |
| 133372  | 688.0           | 20                      | 30 ~ 10000            | -36.71                       | ≤ -13.00    | Pass   |

Note: Spurious emissions within 9kHz – 30MHz were found more than 20dB below limit line.

## 5MHz Channel Bandwidth

## Channel 133147 (665.5MHz)



## Channel 133297 (680.5MHz)



## Channel 133447 (695.5MHz)



## 10MHz Channel Bandwidth

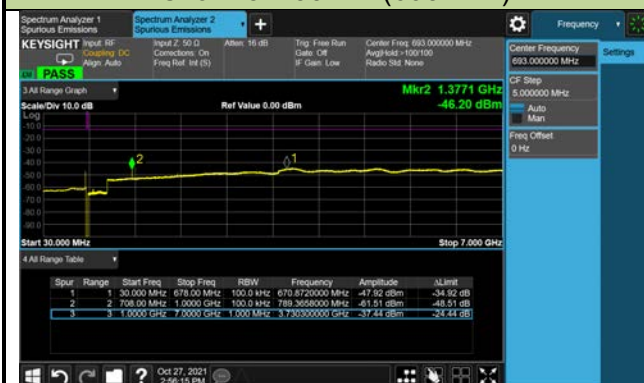
## Channel 133172 (668.0MHz)



## Channel 133297 (680.5MHz)

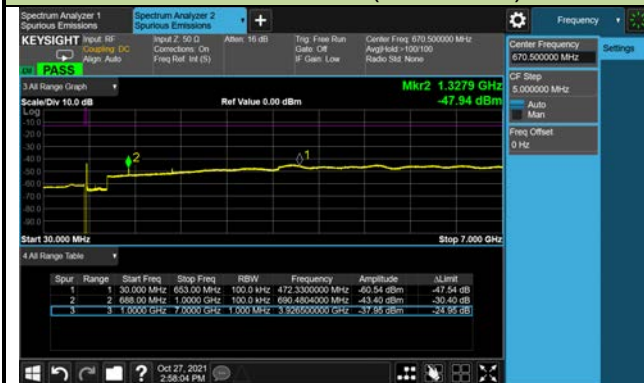


## Channel 133422 (693MHz)



## 15MHz Channel Bandwidth

## Channel 133197 (670.5MHz)



## Channel 133297 (680.5MHz)

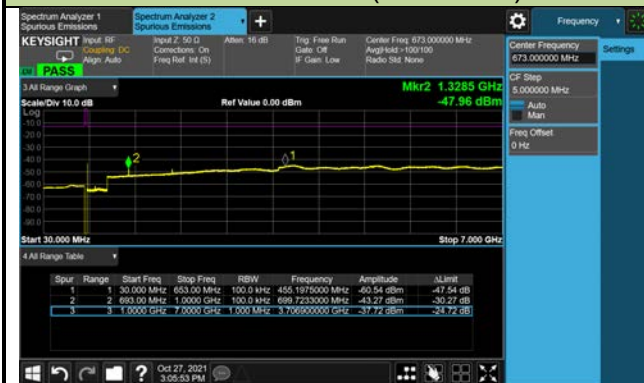


## Channel 133397 (690.5MHz)



## 20MHz Channel Bandwidth

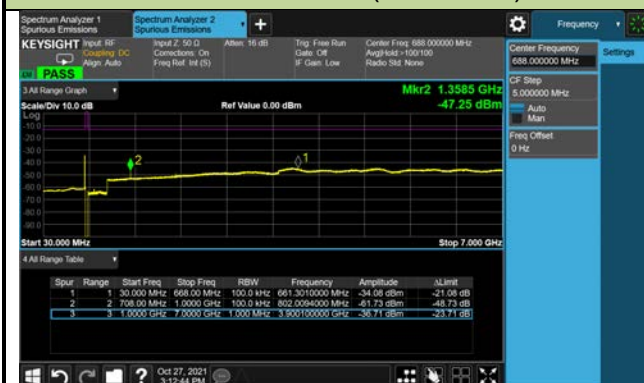
## Channel 133222 (673.0MHz)



## Channel 133322 (683.0MHz)



## Channel 133372 (688.0MHz)



## **5.8. Radiated Spurious Emission Measurement**

### **5.8.1. Test Limit**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to -13dBm.

For Band 7, 38/41, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $55 + 10 \log(P)$  dB. The emission limit equal to -25dBm.

For LTE Band 13, For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW (-50dBm) EIRP for discrete emissions of less than 700 Hz bandwidth.

$E$  (dB $\mu$ V/m) = EIRP (dBm) -  $20 \log D$  + 104.8; where D is the measurement distance in meters. The emission limit equal to 82.3dB $\mu$ V/m or 70.3dB $\mu$ V/m.

### **5.8.2. Test Procedure**

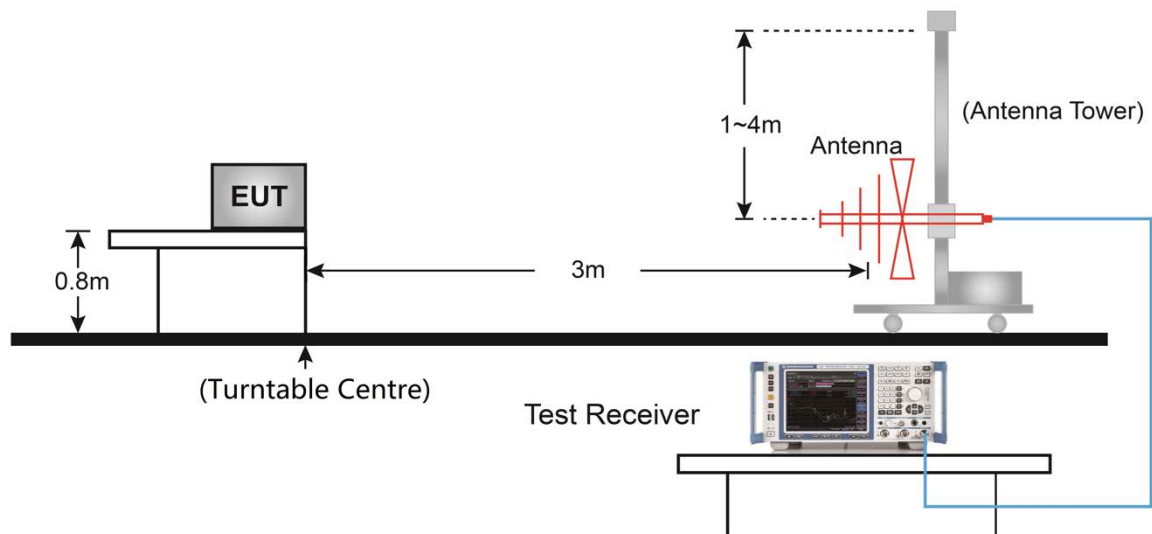
ANSI C63.26-2015 - Section 5.2.7 & 5.5

### **5.8.3. Test Setting**

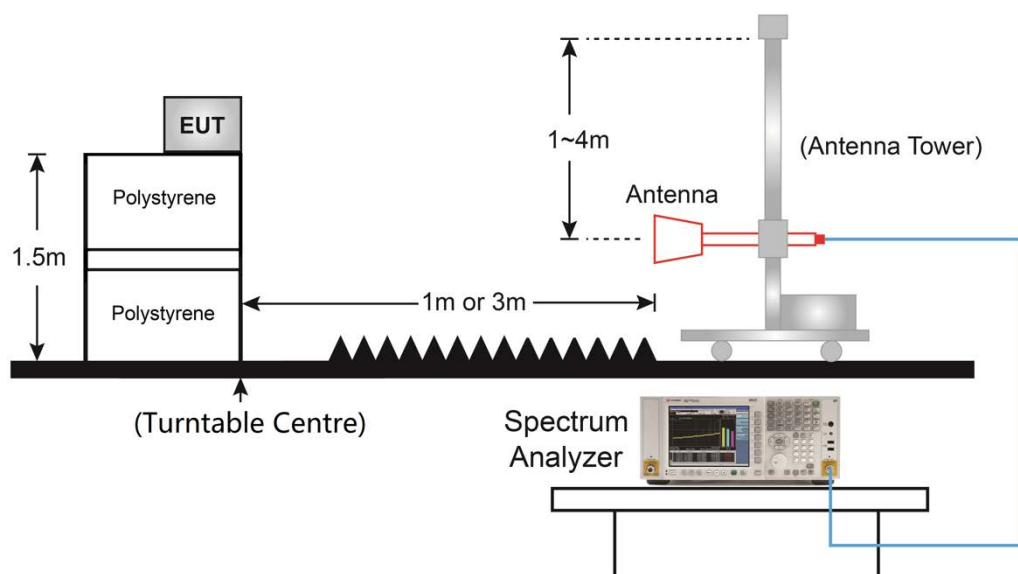
1. RBW = 1MHz
2. VBW  $\geq 3 \times$  RBW
3. Sweep time  $\geq 10 \times$  (number of points in sweep)  $\times$  (transmission symbol period)
4. Detector = Peak
5. Trace mode = max hold
6. The trace was allowed to stabilize

#### 5.8.4. Test Setup

##### Below 1GHz Test Setup:



##### Above 1GHz Test Setup:



### 5.8.5. Test Result

|               |                        |           |                       |
|---------------|------------------------|-----------|-----------------------|
| Product       | LTE Module             | Test Site | SIP-AC2               |
| Test Engineer | Allen Zou              | Test Date | 2021/11/04~2021/11/13 |
| Test Band     | LTE Band 2/25_1RB_QPSK |           |                       |

| Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level(dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|-----------------|----------------------|---------------|-----------------------|----------------|-------------|----------|--------------|
| Low Channel     |                      |               |                       |                |             |          |              |
| 68.3            | 8.5                  | 16.8          | 25.3                  | 82.3           | -57.0       | Peak     | Horizontal   |
| 978.7           | 1.8                  | 30.9          | 32.7                  | 82.3           | -49.6       | Peak     | Horizontal   |
| 34.4            | 17.8                 | 17.5          | 35.3                  | 82.3           | -47.0       | Peak     | Vertical     |
| 817.2           | 2.9                  | 29.1          | 32.0                  | 82.3           | -50.3       | Peak     | Vertical     |
| 4629.5          | 53.6                 | -11.0         | 42.6                  | 82.3           | -39.7       | Peak     | Horizontal   |
| 10452.0         | 51.2                 | -5.3          | 45.9                  | 82.3           | -36.4       | Peak     | Horizontal   |
| 5233.0          | 52.4                 | -10.0         | 42.4                  | 82.3           | -39.9       | Peak     | Vertical     |
| 7715.0          | 51.5                 | -7.0          | 44.5                  | 82.3           | -37.8       | Peak     | Vertical     |
| Middle Channel  |                      |               |                       |                |             |          |              |
| 129.9           | 9.8                  | 17.4          | 27.2                  | 82.3           | -55.1       | Peak     | Horizontal   |
| 929.7           | 1.7                  | 30.2          | 31.9                  | 82.3           | -50.4       | Peak     | Horizontal   |
| 34.4            | 18.2                 | 17.5          | 35.7                  | 82.3           | -46.6       | Peak     | Vertical     |
| 976.2           | 1.5                  | 30.9          | 32.4                  | 82.3           | -49.9       | Peak     | Vertical     |
| 5743.0          | 53.2                 | -9.5          | 43.7                  | 82.3           | -38.6       | Peak     | Horizontal   |
| 7672.5          | 51.3                 | -7.0          | 44.3                  | 82.3           | -38.0       | Peak     | Horizontal   |
| 4952.5          | 53.1                 | -10.3         | 42.8                  | 82.3           | -39.5       | Peak     | Vertical     |
| 9406.5          | 53.7                 | -6.0          | 47.7                  | 82.3           | -34.6       | Peak     | Vertical     |
| High Channel    |                      |               |                       |                |             |          |              |
| 129.9           | 10.1                 | 17.4          | 27.5                  | 82.3           | -54.8       | Peak     | Horizontal   |
| 995.6           | 1.6                  | 31.2          | 32.8                  | 82.3           | -49.5       | Peak     | Horizontal   |
| 34.4            | 18.3                 | 17.5          | 35.8                  | 82.3           | -46.5       | Peak     | Vertical     |
| 985.9           | 2.1                  | 31.0          | 33.1                  | 82.3           | -49.2       | Peak     | Vertical     |
| 4842.0          | 55.2                 | -10.6         | 44.6                  | 82.3           | -37.7       | Peak     | Horizontal   |
| 7655.5          | 52.1                 | -7.0          | 45.1                  | 82.3           | -37.2       | Peak     | Horizontal   |
| 6397.5          | 53.0                 | -8.8          | 44.2                  | 82.3           | -38.1       | Peak     | Vertical     |
| 9568.0          | 51.8                 | -5.4          | 46.4                  | 82.3           | -35.9       | Peak     | Vertical     |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

|               |                        |           |                       |
|---------------|------------------------|-----------|-----------------------|
| Product       | LTE Module             | Test Site | SIP-AC2               |
| Test Engineer | Allen Zou              | Test Date | 2021/11/04~2021/11/13 |
| Test Band     | LTE Band 4/66_1RB_QPSK |           |                       |

| Frequency<br>(MHz) | Reading Level<br>(dBμV) | Factor<br>(dB/m) | Measure<br>Level(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector | Polarization |
|--------------------|-------------------------|------------------|--------------------------|-------------------|----------------|----------|--------------|
| Low Channel        |                         |                  |                          |                   |                |          |              |
| 66.9               | 16.1                    | 17.0             | 33.1                     | 82.3              | -49.2          | Peak     | Horizontal   |
| 978.7              | 2.8                     | 30.9             | 33.7                     | 82.3              | -48.6          | Peak     | Horizontal   |
| 30.0               | 20.4                    | 16.9             | 37.3                     | 82.3              | -45.0          | Peak     | Vertical     |
| 66.4               | 20.2                    | 17.1             | 37.3                     | 82.3              | -45.0          | Peak     | Vertical     |
| 6346.5             | 53.1                    | -8.9             | 44.2                     | 82.3              | -38.1          | Peak     | Horizontal   |
| 7145.5             | 51.5                    | -7.6             | 43.9                     | 82.3              | -38.4          | Peak     | Horizontal   |
| 4995.0             | 53.7                    | -10.3            | 43.4                     | 82.3              | -38.9          | Peak     | Vertical     |
| 6346.5             | 52.6                    | -8.9             | 43.7                     | 82.3              | -38.6          | Peak     | Vertical     |
| Middle Channel     |                         |                  |                          |                   |                |          |              |
| 66.9               | 16.4                    | 17.0             | 33.4                     | 82.3              | -48.9          | Peak     | Horizontal   |
| 971.9              | 2.8                     | 30.8             | 33.6                     | 82.3              | -48.7          | Peak     | Horizontal   |
| 30.0               | 20.5                    | 16.9             | 37.4                     | 82.3              | -44.9          | Peak     | Vertical     |
| 66.9               | 17.7                    | 17.0             | 34.7                     | 82.3              | -47.6          | Peak     | Vertical     |
| 5734.5             | 52.8                    | -9.6             | 43.2                     | 82.3              | -39.1          | Peak     | Horizontal   |
| 7978.5             | 51.8                    | -6.6             | 45.2                     | 82.3              | -37.1          | Peak     | Horizontal   |
| 6321.0             | 53.4                    | -8.9             | 44.5                     | 82.3              | -37.8          | Peak     | Vertical     |
| 8284.5             | 51.0                    | -5.9             | 45.1                     | 82.3              | -37.2          | Peak     | Vertical     |
| High Channel       |                         |                  |                          |                   |                |          |              |
| 66.9               | 15.8                    | 17.0             | 32.8                     | 82.3              | -49.5          | Peak     | Horizontal   |
| 975.3              | 1.6                     | 30.8             | 32.4                     | 82.3              | -49.9          | Peak     | Horizontal   |
| 30.0               | 20.9                    | 16.9             | 37.8                     | 82.3              | -44.5          | Peak     | Vertical     |
| 66.9               | 20.4                    | 17.0             | 37.4                     | 82.3              | -44.9          | Peak     | Vertical     |
| 5751.5             | 52.5                    | -9.5             | 43.0                     | 82.3              | -39.3          | Peak     | Horizontal   |
| 9848.5             | 51.2                    | -5.3             | 45.9                     | 82.3              | -36.4          | Peak     | Horizontal   |
| 6465.5             | 52.7                    | -8.8             | 43.9                     | 82.3              | -38.4          | Peak     | Vertical     |
| 10409.5            | 50.5                    | -5.3             | 45.2                     | 82.3              | -37.1          | Peak     | Vertical     |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

|               |                        |           |                       |
|---------------|------------------------|-----------|-----------------------|
| Product       | LTE Module             | Test Site | SIP-AC2               |
| Test Engineer | Allen Zou              | Test Date | 2021/11/04~2021/11/13 |
| Test Band     | LTE Band 5/26_1RB_QPSK |           |                       |

| Frequency<br>(MHz) | Reading Level<br>(dBμV) | Factor<br>(dB/m) | Measure<br>Level(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector | Polarization |
|--------------------|-------------------------|------------------|--------------------------|-------------------|----------------|----------|--------------|
| Low Channel        |                         |                  |                          |                   |                |          |              |
| 696.4              | 27.8                    | 27.3             | 55.1                     | 82.3              | -27.2          | Peak     | Horizontal   |
| 996.6              | 27.6                    | 31.2             | 58.8                     | 82.3              | -23.5          | Peak     | Horizontal   |
| 755.1              | 27.3                    | 28.7             | 56.0                     | 82.3              | -26.3          | Peak     | Vertical     |
| 979.1              | 27.6                    | 30.9             | 58.5                     | 82.3              | -23.8          | Peak     | Vertical     |
| 3779.5             | 54.3                    | -12.5            | 41.8                     | 82.3              | -40.5          | Peak     | Horizontal   |
| 4519.0             | 53.5                    | -11.4            | 42.1                     | 82.3              | -40.2          | Peak     | Horizontal   |
| 1901.0             | 63.2                    | -18.8            | 44.4                     | 82.3              | -37.9          | Peak     | Vertical     |
| 3813.5             | 53.5                    | -12.4            | 41.1                     | 82.3              | -41.2          | Peak     | Vertical     |
| Middle Channel     |                         |                  |                          |                   |                |          |              |
| 882.1              | 28.8                    | 29.9             | 58.7                     | 82.3              | -23.6          | Peak     | Horizontal   |
| 966.1              | 27.3                    | 30.7             | 58.0                     | 82.3              | -24.3          | Peak     | Horizontal   |
| 635.3              | 28.0                    | 26.7             | 54.7                     | 82.3              | -27.6          | Peak     | Vertical     |
| 988.4              | 27.9                    | 31.1             | 59.0                     | 82.3              | -23.3          | Peak     | Vertical     |
| 2317.5             | 54.4                    | -17.3            | 37.1                     | 82.3              | -45.2          | Peak     | Horizontal   |
| 4621.0             | 53.6                    | -11.0            | 42.6                     | 82.3              | -39.7          | Peak     | Horizontal   |
| 1901.0             | 57.9                    | -18.8            | 39.1                     | 82.3              | -43.2          | Peak     | Vertical     |
| 3728.5             | 53.7                    | -12.5            | 41.2                     | 82.3              | -41.1          | Peak     | Vertical     |
| High Channel       |                         |                  |                          |                   |                |          |              |
| 762.4              | 27.7                    | 28.8             | 56.5                     | 82.3              | -25.8          | Peak     | Horizontal   |
| 984.5              | 27.7                    | 31.0             | 58.7                     | 82.3              | -23.6          | Peak     | Horizontal   |
| 723.1              | 28.2                    | 28.0             | 56.2                     | 82.3              | -26.1          | Peak     | Vertical     |
| 960.2              | 28.1                    | 30.6             | 58.7                     | 82.3              | -23.6          | Peak     | Vertical     |
| 1697.0             | 58.0                    | -19.8            | 38.2                     | 82.3              | -44.1          | Peak     | Horizontal   |
| 3643.5             | 53.9                    | -12.7            | 41.2                     | 82.3              | -41.1          | Peak     | Horizontal   |
| 1697.0             | 62.4                    | -19.8            | 42.6                     | 82.3              | -39.7          | Peak     | Vertical     |
| 2547.0             | 55.7                    | -16.5            | 39.2                     | 82.3              | -43.1          | Peak     | Vertical     |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

|               |                     |           |            |
|---------------|---------------------|-----------|------------|
| Product       | LTE Module          | Test Site | SIP-AC2    |
| Test Engineer | Allen Zou           | Test Date | 2021/12/08 |
| Test Band     | LTE Band 7_1RB_QPSK |           |            |

| Frequency<br>(MHz) | Reading Level<br>(dBμV) | Factor<br>(dB/m) | Measure<br>Level(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector | Polarization |
|--------------------|-------------------------|------------------|--------------------------|-------------------|----------------|----------|--------------|
| Low Channel        |                         |                  |                          |                   |                |          |              |
| 206.5              | 12.6                    | 15.4             | 28.0                     | 70.3              | -42.3          | Peak     | Horizontal   |
| 957.8              | 2.8                     | 31.0             | 33.8                     | 70.3              | -36.5          | Peak     | Horizontal   |
| 39.2               | 17.7                    | 17.8             | 35.5                     | 70.3              | -34.8          | Peak     | Vertical     |
| 71.2               | 17.3                    | 16.0             | 33.3                     | 70.3              | -37.0          | Peak     | Vertical     |
| 7128.5             | 43.0                    | 0.8              | 43.8                     | 70.3              | -26.5          | Peak     | Horizontal   |
| 9355.5             | 42.6                    | 5.6              | 48.2                     | 70.3              | -22.1          | Peak     | Horizontal   |
| 7502.5             | 43.2                    | 2.0              | 45.2                     | 70.3              | -25.1          | Peak     | Vertical     |
| 9678.5             | 43.1                    | 5.4              | 48.5                     | 70.3              | -21.8          | Peak     | Vertical     |
| Middle Channel     |                         |                  |                          |                   |                |          |              |
| 205.6              | 12.7                    | 15.4             | 28.1                     | 70.3              | -42.2          | Peak     | Horizontal   |
| 928.2              | 2.2                     | 30.8             | 33.0                     | 70.3              | -37.3          | Peak     | Horizontal   |
| 39.2               | 17.7                    | 17.8             | 35.5                     | 70.3              | -34.8          | Peak     | Vertical     |
| 71.7               | 16.1                    | 15.9             | 32.0                     | 70.3              | -38.3          | Peak     | Vertical     |
| 5811.0             | 44.9                    | -3.4             | 41.5                     | 70.3              | -28.8          | Peak     | Horizontal   |
| 7264.5             | 43.3                    | 1.6              | 44.9                     | 70.3              | -25.4          | Peak     | Horizontal   |
| 7596.0             | 44.2                    | 1.4              | 45.6                     | 70.3              | -24.7          | Peak     | Vertical     |
| 9457.5             | 41.7                    | 5.5              | 47.2                     | 70.3              | -23.1          | Peak     | Vertical     |
| High Channel       |                         |                  |                          |                   |                |          |              |
| 206.1              | 12.7                    | 15.4             | 28.1                     | 70.3              | -42.2          | Peak     | Horizontal   |
| 969.4              | 2.2                     | 30.9             | 33.1                     | 70.3              | -37.2          | Peak     | Horizontal   |
| 39.2               | 18.1                    | 17.8             | 35.9                     | 70.3              | -34.4          | Peak     | Vertical     |
| 71.7               | 15.5                    | 15.9             | 31.4                     | 70.3              | -38.9          | Peak     | Vertical     |
| 7434.5             | 42.7                    | 2.3              | 45.0                     | 70.3              | -25.3          | Peak     | Horizontal   |
| 9347.0             | 41.5                    | 5.6              | 47.1                     | 70.3              | -23.2          | Peak     | Horizontal   |
| 7451.5             | 41.7                    | 2.4              | 44.1                     | 70.3              | -26.2          | Peak     | Vertical     |
| 10324.5            | 41.3                    | 6.5              | 47.8                     | 70.3              | -22.5          | Peak     | Vertical     |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

|               |                        |           |                       |
|---------------|------------------------|-----------|-----------------------|
| Product       | LTE Module             | Test Site | SIP-AC2               |
| Test Engineer | Allen Zou              | Test Date | 2021/11/04~2021/11/13 |
| Test Band     | LTE Band 12, 1RB, QPSK |           |                       |

| Frequency<br>(MHz) | Reading Level<br>(dBμV) | Factor<br>(dB/m) | Measure<br>Level(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector | Polarization |
|--------------------|-------------------------|------------------|--------------------------|-------------------|----------------|----------|--------------|
| Low Channel        |                         |                  |                          |                   |                |          |              |
| 614.4              | 26.5                    | 26.8             | 53.3                     | 82.3              | -29.0          | Peak     | Horizontal   |
| 958.3              | 27.3                    | 30.6             | 57.9                     | 82.3              | -24.4          | Peak     | Horizontal   |
| 867.6              | 27.6                    | 29.9             | 57.5                     | 82.3              | -24.8          | Peak     | Vertical     |
| 997.6              | 28.8                    | 31.2             | 60.0                     | 82.3              | -22.3          | Peak     | Vertical     |
| 1901.0             | 60.9                    | -18.8            | 42.1                     | 82.3              | -40.2          | Peak     | Horizontal   |
| 4306.5             | 52.8                    | -11.4            | 41.4                     | 82.3              | -40.9          | Peak     | Horizontal   |
| 1884.0             | 65.8                    | -18.9            | 46.9                     | 82.3              | -35.4          | Peak     | Vertical     |
| 3762.5             | 54.6                    | -12.4            | 42.2                     | 82.3              | -40.1          | Peak     | Vertical     |
| Middle Channel     |                         |                  |                          |                   |                |          |              |
| 738.1              | 29.8                    | 28.4             | 58.2                     | 82.3              | -24.1          | Peak     | Horizontal   |
| 993.2              | 27.5                    | 31.2             | 58.7                     | 82.3              | -23.6          | Peak     | Horizontal   |
| 862.3              | 27.3                    | 29.9             | 57.2                     | 82.3              | -25.1          | Peak     | Vertical     |
| 981.1              | 27.8                    | 30.9             | 58.7                     | 82.3              | -23.6          | Peak     | Vertical     |
| 3805.0             | 53.3                    | -12.4            | 40.9                     | 82.3              | -41.4          | Peak     | Horizontal   |
| 4638.0             | 53.6                    | -11.0            | 42.6                     | 82.3              | -39.7          | Peak     | Horizontal   |
| 2122.0             | 57.4                    | -17.9            | 39.5                     | 82.3              | -42.8          | Peak     | Vertical     |
| 3737.0             | 54.1                    | -12.5            | 41.6                     | 82.3              | -40.7          | Peak     | Vertical     |
| High Channel       |                         |                  |                          |                   |                |          |              |
| 872.9              | 27.9                    | 29.9             | 57.8                     | 82.3              | -24.5          | Peak     | Horizontal   |
| 938.9              | 28.7                    | 30.4             | 59.1                     | 82.3              | -23.2          | Peak     | Horizontal   |
| 957.3              | 28.8                    | 30.5             | 59.3                     | 82.3              | -23.0          | Peak     | Vertical     |
| 983.5              | 28.3                    | 31.0             | 59.3                     | 82.3              | -23.0          | Peak     | Vertical     |
| 3184.5             | 54.1                    | -13.9            | 40.2                     | 82.3              | -42.1          | Peak     | Horizontal   |
| 3745.5             | 53.3                    | -12.4            | 40.9                     | 82.3              | -41.4          | Peak     | Horizontal   |
| 3057.0             | 54.1                    | -14.4            | 39.7                     | 82.3              | -42.6          | Peak     | Vertical     |
| 3694.5             | 53.4                    | -12.6            | 40.8                     | 82.3              | -41.5          | Peak     | Vertical     |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

|               |                        |           |                       |
|---------------|------------------------|-----------|-----------------------|
| Product       | LTE Module             | Test Site | SIP-AC2               |
| Test Engineer | Allen Zou              | Test Date | 2021/11/04~2021/11/13 |
| Test Band     | LTE Band 13, 1RB, QPSK |           |                       |

| Frequency<br>(MHz) | Reading Level<br>(dBμV) | Factor<br>(dB/m) | Measure<br>Level(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector | Polarization |
|--------------------|-------------------------|------------------|--------------------------|-------------------|----------------|----------|--------------|
| Low Channel        |                         |                  |                          |                   |                |          |              |
| 883.1              | 28.7                    | 29.9             | 58.6                     | 82.3              | -23.7          | Peak     | Horizontal   |
| 990.8              | 27.4                    | 31.1             | 58.5                     | 82.3              | -23.8          | Peak     | Horizontal   |
| 897.2              | 27.7                    | 29.9             | 57.6                     | 82.3              | -24.7          | Peak     | Vertical     |
| 957.8              | 28.4                    | 30.5             | 58.9                     | 82.3              | -23.4          | Peak     | Vertical     |
| 1586.5             | 54.0                    | -20.4            | 33.6                     | 55.3              | -21.7          | Peak     | Horizontal   |
| 5063.0             | 53.1                    | -10.0            | 43.1                     | 82.3              | -39.2          | Peak     | Horizontal   |
| 1603.5             | 54.9                    | -20.3            | 34.6                     | 55.3              | -20.7          | Peak     | Vertical     |
| 4952.5             | 53.1                    | -10.3            | 42.8                     | 82.3              | -39.5          | Peak     | Vertical     |
| Middle Channel     |                         |                  |                          |                   |                |          |              |
| 847.7              | 27.7                    | 29.9             | 57.6                     | 82.3              | -24.7          | Peak     | Horizontal   |
| 989.8              | 27.5                    | 31.1             | 58.6                     | 82.3              | -23.7          | Peak     | Horizontal   |
| 874.4              | 27.5                    | 29.9             | 57.4                     | 82.3              | -24.9          | Peak     | Vertical     |
| 964.6              | 28.7                    | 30.6             | 59.3                     | 82.3              | -23.0          | Peak     | Vertical     |
| 1569.5             | 56.9                    | -20.5            | 36.4                     | 55.3              | -18.9          | Peak     | Horizontal   |
| 1765.0             | 60.5                    | -19.4            | 41.1                     | 82.3              | -41.2          | Peak     | Horizontal   |
| 1569.5             | 54.9                    | -20.5            | 34.4                     | 55.3              | -20.9          | Peak     | Vertical     |
| 1765.0             | 58.0                    | -19.4            | 38.6                     | 82.3              | -43.7          | Peak     | Vertical     |
| High Channel       |                         |                  |                          |                   |                |          |              |
| 705.6              | 27.9                    | 27.6             | 55.5                     | 82.3              | -26.8          | Peak     | Horizontal   |
| 984.0              | 28.1                    | 31.0             | 59.1                     | 82.3              | -23.2          | Peak     | Horizontal   |
| 898.6              | 28.2                    | 29.9             | 58.1                     | 82.3              | -24.2          | Peak     | Vertical     |
| 980.6              | 28.8                    | 30.9             | 59.7                     | 82.3              | -22.6          | Peak     | Vertical     |
| 1569.5             | 56.4                    | -20.5            | 35.9                     | 55.3              | -19.4          | Peak     | Horizontal   |
| 5743.0             | 53.5                    | -9.5             | 44.0                     | 82.3              | -38.3          | Peak     | Horizontal   |
| 1569.5             | 54.7                    | -20.5            | 34.2                     | 55.3              | -21.1          | Peak     | Vertical     |
| 6227.5             | 53.2                    | -9.0             | 44.2                     | 82.3              | -38.1          | Peak     | Vertical     |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

|               |                        |           |            |
|---------------|------------------------|-----------|------------|
| Product       | LTE Module             | Test Site | SIP-AC2    |
| Test Engineer | Allen Zou              | Test Date | 2021/11/29 |
| Test Band     | LTE Band 17, 1RB, QPSK |           |            |

| Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level(dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|-----------------|----------------------|---------------|-----------------------|----------------|-------------|----------|--------------|
| Low Channel     |                      |               |                       |                |             |          |              |
| 67.8            | 22.7                 | 16.0          | 38.7                  | 82.3           | -43.6       | Peak     | Horizontal   |
| 431.6           | 21.4                 | 21.8          | 43.2                  | 82.3           | -39.1       | Peak     | Horizontal   |
| 35.3            | 23.9                 | 17.3          | 41.2                  | 82.3           | -41.1       | Peak     | Vertical     |
| 109.5           | 24.3                 | 15.0          | 39.3                  | 82.3           | -43.0       | Peak     | Vertical     |
| 5088.5          | 50.4                 | -9.1          | 41.3                  | 82.3           | -41.0       | Peak     | Horizontal   |
| 7757.5          | 49.5                 | -5.9          | 43.6                  | 82.3           | -38.7       | Peak     | Horizontal   |
| 6193.5          | 50.0                 | -8.3          | 41.7                  | 82.3           | -40.6       | Peak     | Vertical     |
| 9372.5          | 48.0                 | -3.6          | 44.4                  | 82.3           | -37.9       | Peak     | Vertical     |
| Middle Channel  |                      |               |                       |                |             |          |              |
| 388.4           | 21.5                 | 20.7          | 42.2                  | 82.3           | -40.1       | Peak     | Horizontal   |
| 583.9           | 22.2                 | 25.0          | 47.2                  | 82.3           | -35.1       | Peak     | Horizontal   |
| 384.5           | 21.1                 | 20.6          | 41.7                  | 82.3           | -40.6       | Peak     | Vertical     |
| 516.9           | 22.0                 | 23.6          | 45.6                  | 82.3           | -36.7       | Peak     | Vertical     |
| 6465.5          | 50.1                 | -7.9          | 42.2                  | 82.3           | -40.1       | Peak     | Horizontal   |
| 9721.0          | 47.7                 | -3.5          | 44.2                  | 82.3           | -38.1       | Peak     | Horizontal   |
| 6448.5          | 50.1                 | -8.0          | 42.1                  | 82.3           | -40.2       | Peak     | Vertical     |
| 9729.5          | 47.5                 | -3.6          | 43.9                  | 82.3           | -38.4       | Peak     | Vertical     |
| High Channel    |                      |               |                       |                |             |          |              |
| 498.5           | 21.4                 | 23.3          | 44.7                  | 82.3           | -37.6       | Peak     | Horizontal   |
| 594.5           | 22.1                 | 25.4          | 47.5                  | 82.3           | -34.8       | Peak     | Horizontal   |
| 40.2            | 25.5                 | 17.9          | 43.4                  | 82.3           | -38.9       | Peak     | Vertical     |
| 923.9           | 21.1                 | 29.8          | 50.9                  | 82.3           | -31.4       | Peak     | Vertical     |
| 8607.5          | 48.7                 | -4.2          | 44.5                  | 82.3           | -37.8       | Peak     | Horizontal   |
| 10911.0         | 48.1                 | -3.1          | 45.0                  | 82.3           | -37.3       | Peak     | Horizontal   |
| 7009.5          | 49.4                 | -6.9          | 42.5                  | 82.3           | -39.8       | Peak     | Vertical     |
| 9372.5          | 47.8                 | -3.6          | 44.2                  | 82.3           | -38.1       | Peak     | Vertical     |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

|               |                                |           |                       |
|---------------|--------------------------------|-----------|-----------------------|
| Product       | LTE Module                     | Test Site | SIP-AC2               |
| Test Engineer | Allen Zou                      | Test Date | 2021/11/04~2021/11/13 |
| Test Band     | LTE Band 38/41_HPUE, 1RB, QPSK |           |                       |

| Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level(dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|-----------------|----------------------|---------------|-----------------------|----------------|-------------|----------|--------------|
| Low Channel     |                      |               |                       |                |             |          |              |
| 66.9            | 16.7                 | 17.0          | 33.7                  | 70.3           | -36.6       | Peak     | Horizontal   |
| 879.7           | 3.3                  | 30.0          | 33.3                  | 70.3           | -37.0       | Peak     | Horizontal   |
| 30.0            | 20.9                 | 16.9          | 37.8                  | 70.3           | -32.5       | Peak     | Vertical     |
| 66.4            | 20.7                 | 17.1          | 37.8                  | 70.3           | -32.5       | Peak     | Vertical     |
| 14056.0         | 47.7                 | 1.3           | 49.0                  | 70.3           | -21.3       | Peak     | Horizontal   |
| 17660.0         | 46.3                 | 5.1           | 51.4                  | 70.3           | -18.9       | Peak     | Horizontal   |
| 13911.5         | 47.7                 | 0.6           | 48.3                  | 70.3           | -22.0       | Peak     | Vertical     |
| 17915.0         | 46.2                 | 5.4           | 51.6                  | 70.3           | -18.7       | Peak     | Vertical     |
| Middle Channel  |                      |               |                       |                |             |          |              |
| 66.9            | 16.6                 | 17.0          | 33.6                  | 70.3           | -36.7       | Peak     | Horizontal   |
| 948.6           | 3.0                  | 30.5          | 33.5                  | 70.3           | -36.8       | Peak     | Horizontal   |
| 30.0            | 20.7                 | 16.9          | 37.6                  | 70.3           | -32.7       | Peak     | Vertical     |
| 66.9            | 20.4                 | 17.0          | 37.4                  | 70.3           | -32.9       | Peak     | Vertical     |
| 14285.5         | 47.1                 | 1.6           | 48.7                  | 70.3           | -21.6       | Peak     | Horizontal   |
| 17779.0         | 45.0                 | 5.6           | 50.6                  | 70.3           | -19.7       | Peak     | Horizontal   |
| 13741.5         | 49.0                 | 0.2           | 49.2                  | 70.3           | -21.1       | Peak     | Vertical     |
| 17787.5         | 46.2                 | 5.5           | 51.7                  | 70.3           | -18.6       | Peak     | Vertical     |
| High Channel    |                      |               |                       |                |             |          |              |
| 67.3            | 16.6                 | 16.9          | 33.5                  | 70.3           | -36.8       | Peak     | Horizontal   |
| 966.5           | 3.3                  | 30.7          | 34.0                  | 70.3           | -36.3       | Peak     | Horizontal   |
| 30.0            | 20.0                 | 16.9          | 36.9                  | 70.3           | -33.4       | Peak     | Vertical     |
| 66.4            | 18.5                 | 17.1          | 35.6                  | 70.3           | -34.7       | Peak     | Vertical     |
| 13988.0         | 47.2                 | 0.8           | 48.0                  | 70.3           | -22.3       | Peak     | Horizontal   |
| 17813.0         | 45.5                 | 5.2           | 50.7                  | 70.3           | -19.6       | Peak     | Horizontal   |
| 14192.0         | 46.9                 | 1.3           | 48.2                  | 70.3           | -22.1       | Peak     | Vertical     |
| 17473.0         | 46.2                 | 5.0           | 51.2                  | 70.3           | -19.1       | Peak     | Vertical     |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

|               |                        |           |                       |
|---------------|------------------------|-----------|-----------------------|
| Product       | LTE Module             | Test Site | SIP-AC2               |
| Test Engineer | Allen Zou              | Test Date | 2021/11/04~2021/11/13 |
| Test Band     | LTE Band 71, 1RB, QPSK |           |                       |

| Frequency<br>(MHz)      | Reading Level<br>(dBμV) | Factor<br>(dB/m) | Measure<br>Level(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector | Polarization |
|-------------------------|-------------------------|------------------|--------------------------|-------------------|----------------|----------|--------------|
| Low Channel             |                         |                  |                          |                   |                |          |              |
| 618.3                   | 22.0                    | 26.7             | 48.7                     | 82.3              | -33.6          | Peak     | Horizontal   |
| 874.9                   | 18.1                    | 29.9             | 48.0                     | 82.3              | -34.3          | Peak     | Horizontal   |
| 873.9                   | 26.9                    | 29.9             | 56.8                     | 82.3              | -25.5          | Peak     | Vertical     |
| 970.4                   | 27.2                    | 30.8             | 58.0                     | 82.3              | -24.3          | Peak     | Vertical     |
| 1323.0                  | 62.6                    | -21.9            | 40.7                     | 82.3              | -41.6          | Peak     | Horizontal   |
| 4621.0                  | 52.0                    | -11.0            | 41.0                     | 82.3              | -41.3          | Peak     | Horizontal   |
| 1323.0                  | 58.3                    | -21.9            | 36.4                     | 82.3              | -45.9          | Peak     | Vertical     |
| 3524.5                  | 52.7                    | -13.0            | 39.7                     | 82.3              | -42.6          | Peak     | Vertical     |
| Middle Channel          |                         |                  |                          |                   |                |          |              |
| 829.3                   | 28.1                    | 29.5             | 57.6                     | 82.3              | -24.7          | Peak     | Horizontal   |
| 960.2                   | 27.5                    | 30.6             | 58.1                     | 82.3              | -24.2          | Peak     | Horizontal   |
| 890.9                   | 27.9                    | 29.9             | 57.8                     | 82.3              | -24.5          | Peak     | Vertical     |
| 999.0                   | 27.6                    | 31.2             | 58.8                     | 82.3              | -23.5          | Peak     | Vertical     |
| 1348.5                  | 58.5                    | -21.7            | 36.8                     | 82.3              | -45.5          | Peak     | Horizontal   |
| 3762.5                  | 51.5                    | -12.4            | 39.1                     | 82.3              | -43.2          | Peak     | Horizontal   |
| 1348.5                  | 55.7                    | -21.7            | 34.0                     | 82.3              | -48.3          | Peak     | Vertical     |
| 3439.5                  | 52.2                    | -13.1            | 39.1                     | 82.3              | -43.2          | Peak     | Vertical     |
| Top CH 23825 (713.5MHz) |                         |                  |                          |                   |                |          |              |
| 869.1                   | 28.1                    | 29.9             | 58.0                     | 82.3              | -24.3          | Peak     | Horizontal   |
| 995.2                   | 27.5                    | 31.2             | 58.7                     | 82.3              | -23.6          | Peak     | Horizontal   |
| 889.9                   | 29.0                    | 29.9             | 58.9                     | 82.3              | -23.4          | Peak     | Vertical     |
| 993.2                   | 27.0                    | 31.2             | 58.2                     | 82.3              | -24.1          | Peak     | Vertical     |
| 3244.0                  | 52.2                    | -13.5            | 38.7                     | 82.3              | -43.6          | Peak     | Horizontal   |
| 4629.5                  | 51.9                    | -11.0            | 40.9                     | 82.3              | -41.4          | Peak     | Horizontal   |
| 1391.0                  | 56.3                    | -21.6            | 34.7                     | 82.3              | -47.6          | Peak     | Vertical     |
| 2436.5                  | 55.2                    | -16.8            | 38.4                     | 82.3              | -43.9          | Peak     | Vertical     |

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

## 6. CONCLUSION

The data collected relate only the item(s) tested and show that unit is compliance with FCC Rules.

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The End

## **Appendix A - Test Setup Photograph**

Refer to “2110RSU029-UT” file.

## **Appendix B - EUT Photograph**

Refer to “2110RSU029-UE” file.