



## FCC Test Report

Report Reference No.: **HK2409265637-10E**

FCC ID : **2ALPX-OPYNMULTIPIB**

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Date of issue.....: Oct. 30, 2024

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**Applicant's name**.....: **Advanced Electronic Solutions Global Ltd.**

Address.....: Unit 4C, Kilcronagh Business Park Cookstown County Tyrone, United  
Kingdom

**Test specification** ..... :

**Standard** ..... : **FCC Part 90**

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**Test item description**.....: Opyn Multi

Trade Mark .....: AES

**Manufacturer**.....: **Advanced Electronic Solutions Global Ltd.**

Model/Type reference.....: OPYN-MULTI-IP-IB

Series Models .....: N/A

Ratings.....: DC 12V From DC Power or DC 48V From POE Power

Modulation .....: QPSK, 16QAM

Hardware version .....: V2.0

Software version .....: V2.0

Frequency.....: LTE Band 26

Result.....: **PASS**

**TEST REPORT****Test Report No. :****HK2409265637-10E**

Oct. 30, 2024

Date of issue

Equipment under Test : Oryn Multi

Model /Type : OPYN-MULTI-IP-IB

Series Models : N/A

**Applicant : Advanced Electronic Solutions Global Ltd.**Address : Unit 4C, Kilcronagh Business Park Cookstown  
County Tyrone, United Kingdom**Manufacturer : Advanced Electronic Solutions Global Ltd.**Address : Unit 4C, Kilcronagh Business Park Cookstown  
County Tyrone, United Kingdom**Test result****Pass**

The test report merely corresponds to the test sample.  
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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**\*\* Modified History \*\***

| Revision     | Description                 | Issued Data   | Remark     |
|--------------|-----------------------------|---------------|------------|
| Revision 1.0 | Initial Test Report Release | Oct. 30, 2024 | Jason Zhou |
|              |                             |               |            |
|              |                             |               |            |





## 1. Summary

### 1.1 Test Standards

The tests were performed according to following standards:

[FCC Part 90](#) : PRIVATE LAND MOBILE RADIO SERVICES

[TIA/EIA 603 D June 2010](#):Land Mobile FM or PM Communications Equipment  
Measurement and Performance Standards.

47 CFR FCC Part 15 Subpart B: - Unintentional Radiators

[FCC Part 2](#): FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL  
RULES AND REG-ULATIONS

[KDB 971168 D01 v03r01](#): Measurement Guidance For Certification Of Licensed Digital  
Transmitters



## 1.2 Test Description

| Requirement                                   | CFR 47 Section    | Result |
|-----------------------------------------------|-------------------|--------|
| Conducted Output Power                        | §2.1046; §90.635; | PASS   |
| Peak-to-Average Ratio                         | §2.1046;          | PASS   |
| Effective Radiated Power                      | §2.1046; §90.635; | PASS   |
| Occupied Bandwidth                            | §2.1049;          | PASS   |
| Band Edge                                     | §2.1051; §90.691  | PASS   |
| Conducted Spurious Emission                   | §2.1051; §90.691  | PASS   |
| Field Strength of Spurious Radiation          | §2.1053; §90.691  | PASS   |
| Frequency Stability for Temperature & Voltage | §2.1055; §90.231  | PASS   |

**Note:**

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.



## 2. EUT Description

|                                                                                                                                                                                                                                                                                                                             |                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>Product Name:</b>                                                                                                                                                                                                                                                                                                        | Opyn Multi                                    |
| <b>Model :</b>                                                                                                                                                                                                                                                                                                              | OPYN-MULTI-IP-IB                              |
| <b>Series Models:</b>                                                                                                                                                                                                                                                                                                       | N/A                                           |
| <b>Trade Mark:</b>                                                                                                                                                                                                                                                                                                          | AES                                           |
| <b>Tx Frequency:</b>                                                                                                                                                                                                                                                                                                        | LTE Band 26: 814 MHz ~ 824 MHz                |
| <b>Rx Frequency:</b>                                                                                                                                                                                                                                                                                                        | LTE Band 26: 859MHz ~ 869 MHz                 |
| <b>Bandwidth:</b>                                                                                                                                                                                                                                                                                                           | LTE Band 26: 1.4MHz /3MHz /5MHz /10MHz        |
| <b>Type of Modulation:</b>                                                                                                                                                                                                                                                                                                  | QPSK/16QAM                                    |
| <b>Antenna Type:</b>                                                                                                                                                                                                                                                                                                        | External Antenna                              |
| <b>Antenna Gain:</b>                                                                                                                                                                                                                                                                                                        | 2.5dBi                                        |
| <b>Power Supply:</b>                                                                                                                                                                                                                                                                                                        | DC 12V From DC Power or DC 48V From POE Power |
| <b>Note:</b><br>1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.<br>2. Antenna gain Refer to the antenna specifications.<br>3. The cable loss data is obtained from the supplier.<br>4. The test results in the report only apply to the tested sample. |                                               |



### 3. General Information

#### 3.1. Test environment and mode

| Operating Environment:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24.0 °C                                                 |
| Humidity:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 54 % RH                                                 |
| Atmospheric Pressure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1010 mbar                                               |
| Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |
| Operation mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Keep the EUT in continuous transmitting with modulation |
| The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. |                                                         |

#### Description Operation Frequency

| LTE Band 26(1.4MHz) |                 | LTE Band 26(3MHz)  |                 |
|---------------------|-----------------|--------------------|-----------------|
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 26697               | 814.7           | 26705              | 815.5           |
| 26740               | 819.0           | 26740              | 819.0           |
| 26783               | 823.3           | 26775              | 822.5           |
| LTE Band 26(5MHz)   |                 | LTE Band 26(10MHz) |                 |
| Channel             | Frequency (MHz) | Channel            | Frequency (MHz) |
| 26715               | 816.5           | 26740              | 819.0           |
| 26740               | 819.0           | -                  | -               |
| 26765               | 821.5           | -                  | -               |





### 3.2. Test Mode

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

| Test Mode   |                                                |                                                 |
|-------------|------------------------------------------------|-------------------------------------------------|
| Band        | Radiated TCs                                   | Conducted TCs                                   |
| LTE Band 26 | QPSK Link<br>(1.4MHz / 3MHz / 5MHz /<br>10MHz) | 16QAM Link<br>(1.4MHz / 3MHz / 5MHz /<br>10MHz) |

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas License Digital Systems v03 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

### 3.3. Description of Support Units

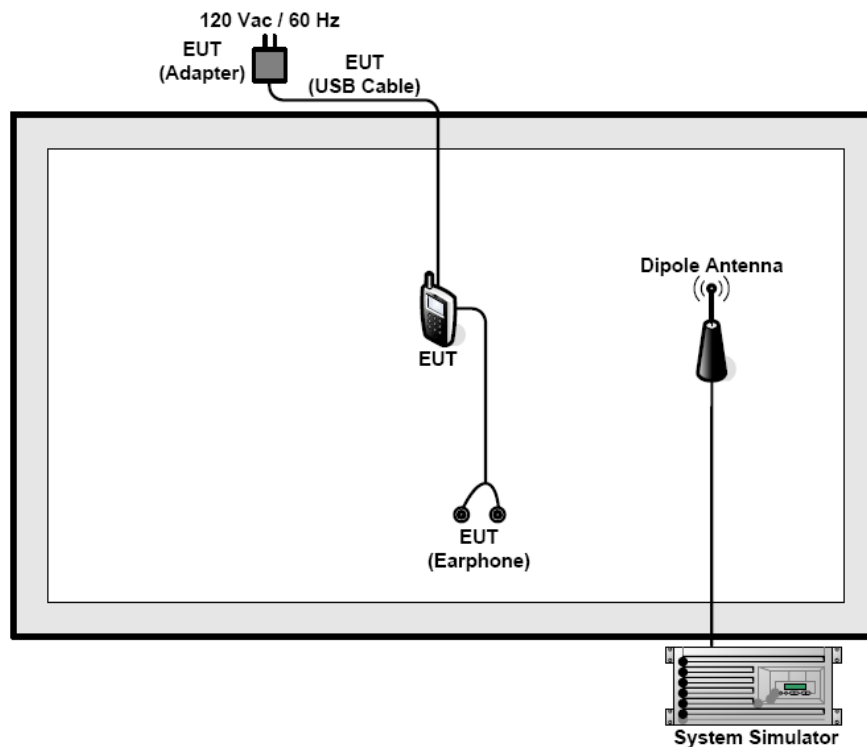
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Equipment | Model No. | Serial No. | FCC ID | Trade Name |
|-----------|-----------|------------|--------|------------|
| /         | /         | /          | /      | /          |

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

### 3.4. Configuration of Tested System



### 3.5. Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level. The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*



### 3.6. Equipments Used during the Test

| Item | Test Equipment                  | Manufacturer    | Model No.                | Serial No. | Calibration Date | Calibration Due Date |
|------|---------------------------------|-----------------|--------------------------|------------|------------------|----------------------|
| 1    | L.I.S.N.                        | R&S             | ENV216                   | HKE-002    | 2024/02/20       | 2025/02/19           |
| 2    | L.I.S.N.                        | R&S             | ENV216                   | HKE-059    | 2024/02/20       | 2025/02/19           |
| 3    | EMI Test Receiver               | R&S             | ESR                      | HKE-005    | 2024/02/20       | 2025/02/19           |
| 4    | Spectrum analyzer               | Agilent         | N9020A                   | HKE-117    | 2024/02/20       | 2025/02/19           |
| 5    | Spectrum analyzer               | R&S             | FSV3044                  | HKE-126    | 2024/02/20       | 2025/02/19           |
| 6    | Preamplifier                    | EMCI            | EMC051845S               | HKE-006    | 2024/02/20       | 2025/02/19           |
| 7    | Preamplifier                    | Schwarzbeck     | BBV 9743                 | HKE-016    | 2024/02/20       | 2025/02/19           |
| 8    | Preamplifier                    | A.H. Systems    | SAS-574                  | HKE-182    | 2024/02/20       | 2025/02/19           |
| 9    | 6d Attenuator                   | Pasternack      | 6db                      | HKE-184    | 2024/02/20       | 2025/02/19           |
| 10   | EMI Test Receiver               | Rohde & Schwarz | ESR-7                    | HKE-010    | 2024/02/20       | 2025/02/19           |
| 11   | Broadband Antenna               | Schwarzbeck     | VULB9168                 | HKE-167    | 2024/02/21       | 2026/02/20           |
| 12   | Loop Antenna                    | COM-POWER       | AL-130R                  | HKE-014    | 2024/02/21       | 2026/02/20           |
| 13   | Horn Antenna                    | Schwarzbeck     | 9120D                    | HKE-013    | 2024/02/21       | 2026/02/20           |
| 14   | EMI Test Software               | Tonscend        | JS32-CE<br>2.5.0.6       | HKE-081    | /                | /                    |
| 15   | EMI Test Software               | Tonscend        | JS32-RE<br>5.0.0         | HKE-082    | /                | /                    |
| 16   | RF Automatic control unit       | Tonscend        | JS0806-1                 | HKE-096    | 2024/02/20       | 2025/02/19           |
| 17   | High pass filter unit           | Tonscend        | JS0806-F                 | HKE-055    | 2024/02/20       | 2025/02/19           |
| 18   | Wireless Communication Test Set | R&S             | CMU200                   | HKE-026    | 2024/02/20       | 2025/02/19           |
| 19   | Wireless Communication Test Set | R&S             | CMW500                   | HKE-027    | 2024/02/20       | 2025/02/19           |
| 20   | High-low temperature chamber    | Guangke         | HT-80L                   | HKE-118    | 2024/06/10       | 2025/06/09           |
| 21   | Temperature and humidity meter  | Boyang          | HTC-1                    | HKE-075    | 2024/06/10       | 2025/06/09           |
| 22   | RF Test Software                | Tonscend        | JS1120<br>Version 3.1.46 | HKE-183    | /                | /                    |
| 23   | RSE Test Software               | Tonscend        | JS36-RSE<br>5.0.0        | HKE-184    | /                | /                    |

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## 4. Facilities and Accreditations

### 4.1. Information of The Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

### 4.2. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

| Test                  | Range      | Measurement Uncertainty | Notes |
|-----------------------|------------|-------------------------|-------|
| Radiated Emission     | 30~1000MHz | 4.10dB                  | (1)   |
| Radiated Emission     | Above 1GHz | 4.32dB                  | (1)   |
| Conducted Disturbance | 0.15~30MHz | 3.20dB                  | (1)   |

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

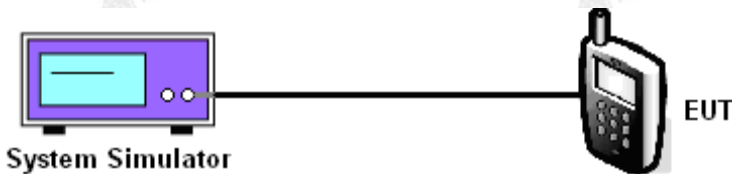




## 5. Test Results and Measurement Data

### 5.1. Conducted Output Power Measurement

#### 5.1.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC part 90.635                                                                                                                                                                                                                                                                                                                                         |
| <b>Test Method:</b>      | FCC part 2.1046                                                                                                                                                                                                                                                                                                                                         |
| <b>Limits:</b>           | LTE Band 26: 100W                                                                                                                                                                                                                                                                                                                                       |
| <b>Test Setup:</b>       |  <p>The diagram illustrates the test setup. On the left is a purple rectangular box labeled 'System Simulator' with a blue screen and two small circles. A black line connects this box to a black mobile phone on the right, which is labeled 'EUT'.</p>             |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"><li>1. The transmitter output port was connected to the system simulator.</li><li>2. Set EUT at maximum power through system simulator.</li><li>3. Select lowest, middle, highest channels for each band and different modulation.</li><li>4. Measure and record the power level from the system simulator.</li></ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                    |

## TEST RESULTS

**Conducted Measurement:**

| LTE FDD Band 26      |                |                 |                     |       |
|----------------------|----------------|-----------------|---------------------|-------|
| TX Channel Bandwidth | RB Size/Offset | Frequency (MHz) | Average Power [dBm] |       |
|                      |                |                 | QPSK                | 16QAM |
| 1.4 MHz              | 1 RB low       | 814.7           | 23.28               | 22.53 |
|                      |                | 819.0           | 23.34               | 22.29 |
|                      |                | 823.3           | 23.37               | 22.36 |
|                      | 1 RB high      | 814.7           | 23.41               | 22.31 |
|                      |                | 819.0           | 23.36               | 22.22 |
|                      |                | 823.3           | 23.29               | 22.25 |
|                      | 50% RB mid     | 814.7           | 22.39               | 21.38 |
|                      |                | 819.0           | 23.51               | 22.49 |
|                      |                | 823.3           | 23.59               | 22.45 |
|                      | 100% RB        | 814.7           | 23.66               | 22.62 |
|                      |                | 819.0           | 23.53               | 22.12 |
|                      |                | 823.3           | 23.49               | 22.09 |
| 3 MHz                | 1 RB low       | 815.5           | 23.24               | 21.79 |
|                      |                | 819.0           | 23.22               | 22.20 |
|                      |                | 822.5           | 23.28               | 22.30 |
|                      | 1 RB high      | 815.5           | 22.53               | 21.40 |
|                      |                | 819.0           | 22.35               | 21.43 |
|                      |                | 822.5           | 22.41               | 21.49 |
|                      | 50% RB mid     | 815.5           | 23.28               | 22.47 |
|                      |                | 819.0           | 23.56               | 22.56 |
|                      |                | 822.5           | 22.40               | 21.51 |
|                      | 100% RB        | 815.5           | 22.35               | 21.73 |
|                      |                | 819.0           | 22.27               | 21.31 |
|                      |                | 822.5           | 22.33               | 21.25 |
| 5 MHz                | 1 RB low       | 816.5           | 23.32               | 22.15 |
|                      |                | 819.0           | 23.33               | 22.02 |
|                      |                | 821.5           | 23.41               | 22.28 |
|                      | 1 RB high      | 816.5           | 22.14               | 21.44 |
|                      |                | 819.0           | 22.21               | 21.36 |
|                      |                | 821.5           | 22.35               | 21.37 |
|                      | 50% RB mid     | 816.5           | 22.27               | 21.33 |
|                      |                | 819.0           | 23.46               | 21.78 |
|                      |                | 821.5           | 23.33               | 22.19 |
|                      | 100% RB        | 816.5           | 23.32               | 22.15 |
|                      |                | 819.0           | 22.31               | 21.41 |
|                      |                | 821.5           | 22.31               | 21.51 |
| 10 MHz               | 1 RB low       | 819.0           | 23.32               | 22.13 |
|                      | 1 RB high      | 819.0           | 23.23               | 22.73 |
|                      | 50% RB mid     | 819.0           | 23.37               | 22.26 |
|                      | 100% RB        | 819.0           | 22.15               | 21.36 |

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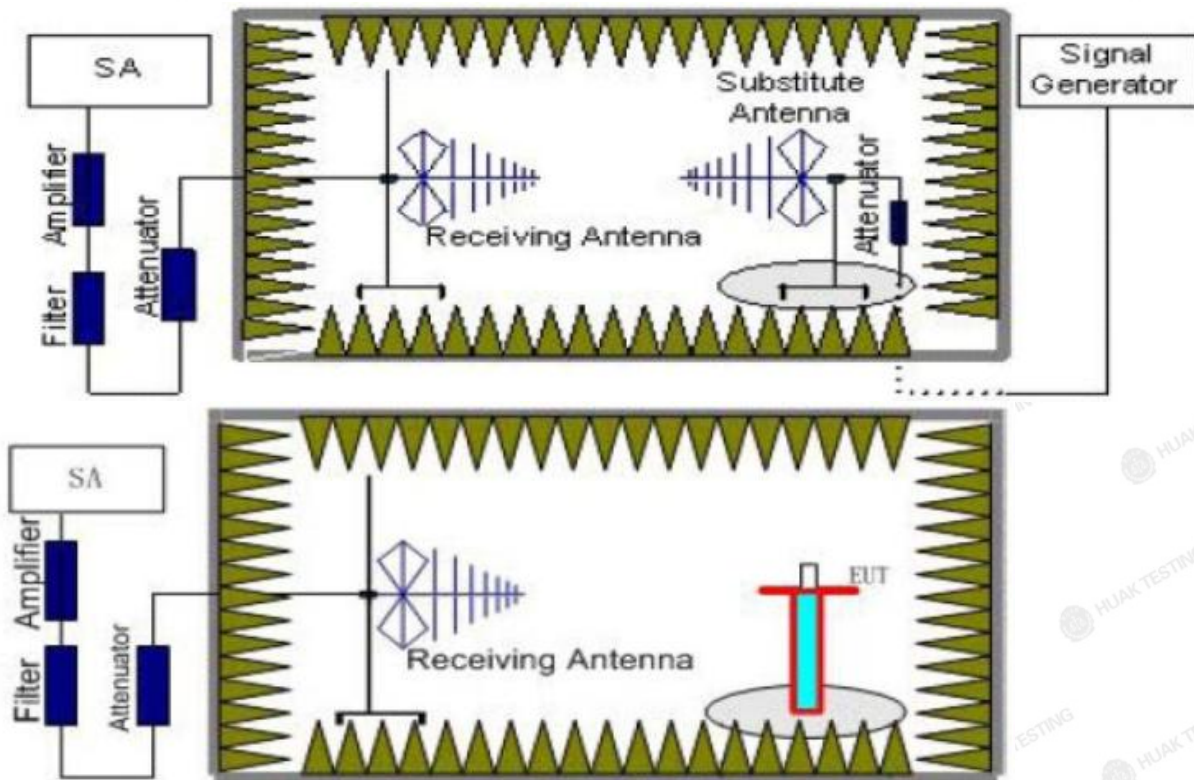
## 5.2. Radiated Output Power

### LIMIT

This is the test for the maximum radiated power from the EUT.

Rule Part 90 specifies, " The maximum output power of the transmitter for mobile stations is 100 watts. "

### TEST CONFIGURATION



### TEST PROCEDURE

1. EUT was placed on a 0.1 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 0.1m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as ( $P_r$ ).
4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver.





5. reach the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss ( $P_{cl}$ ), the Substitution Antenna Gain ( $G_a$ ) and the Amplifier Gain ( $P_{Ag}$ ) should be recorded after test.

The measurement results are obtained as described below:  $\text{Power(EIRP)} = P_{Mea} - P_{Ag} - P_{cl} + G_a$

We used SMF100A microwave signal generator which signal level can up to 33dBm, so we not used power

Amplifier for substitution test; The measurement results are amend as described below:

$$\text{Power(EIRP)} = P_{Mea} - P_{cl} + G_a$$

7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
8. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$ .

## TEST RESULTS

### Radiated Measurement:

Remark:

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 26.
2.  $\text{EIRP} = P_{Mea}(\text{dBm}) - P_{cl}(\text{dB}) + P_{Ag}(\text{dB}) + G_a(\text{dBi})$
3. We measured both Horizontal and Vertical direction, recorded worst case direction.

#### LTE FDD Band 26\_Channel Bandwidth 1.4MHz\_QPSK

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | $G_a$ Antenna Gain(dB) | $P_{Ag}$ (dB) | EIRP (dBm) | ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|-----------------|---------------|------------------------|---------------|------------|-----------|-------------|-------------|--------------|
| 814.7           | -19.09          | 2.42          | 8.45                   | 36.82         | 23.76      | 21.61     | 50.00       | 28.39       | V            |
| 819.0           | -16.93          | 2.46          | 8.45                   | 36.82         | 25.88      | 23.73     | 50.00       | 26.27       | V            |
| 823.3           | -18.73          | 2.53          | 8.36                   | 36.82         | 23.92      | 21.77     | 50.00       | 28.23       | V            |

#### LTE FDD Band 26\_Channel Bandwidth 3MHz\_QPSK

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | $G_a$ Antenna Gain(dB) | $P_{Ag}$ (dB) | EIRP (dBm) | ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|-----------------|---------------|------------------------|---------------|------------|-----------|-------------|-------------|--------------|
| 815.5           | -18.91          | 2.42          | 8.45                   | 36.82         | 23.94      | 21.79     | 50.00       | 28.21       | V            |
| 819.0           | -17.29          | 2.46          | 8.45                   | 36.82         | 25.52      | 23.37     | 50.00       | 26.63       | V            |
| 822.5           | -18.06          | 2.53          | 8.36                   | 36.82         | 24.59      | 22.44     | 50.00       | 27.56       | V            |

#### LTE FDD Band 26\_Channel Bandwidth 5MHz\_QPSK

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | $G_a$ Antenna Gain(dB) | $P_{Ag}$ (dB) | EIRP (dBm) | ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|-----------------|---------------|------------------------|---------------|------------|-----------|-------------|-------------|--------------|
| 816.5           | -18.68          | 2.42          | 8.45                   | 36.82         | 24.17      | 22.02     | 50.00       | 27.98       | V            |
| 819.0           | -17.2           | 2.46          | 8.45                   | 36.82         | 25.61      | 23.46     | 50.00       | 26.54       | V            |
| 821.5           | -17.64          | 2.53          | 8.36                   | 36.82         | 25.01      | 22.86     | 50.00       | 27.14       | V            |

#### LTE FDD Band 26\_Channel Bandwidth 10MHz\_QPSK

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | $G_a$ Antenna Gain(dB) | $P_{Ag}$ (dB) | EIRP (dBm) | ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|-----------------|---------------|------------------------|---------------|------------|-----------|-------------|-------------|--------------|
| 819.0           | -15.95          | 2.46          | 8.45                   | 36.82         | 26.86      | 24.71     | 50.00       | 25.29       | V            |



**LTE FDD Band 26\_Channel Bandwidth 1.4MHz\_16QAM**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | G <sub>a</sub> Antenna Gain(dB) | P <sub>Aq</sub> (dB) | EIRP (dBm) | ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|---------------------------------|----------------------|------------|-----------|-------------|-------------|--------------|
| 814.7           | -18.09                 | 2.42                 | 8.45                            | 36.82                | 24.76      | 22.61     | 50.00       | 27.39       | V            |
| 819.0           | -17.22                 | 2.46                 | 8.45                            | 36.82                | 25.59      | 23.44     | 50.00       | 26.56       | V            |
| 823.3           | -18.31                 | 2.53                 | 8.36                            | 36.82                | 24.34      | 22.19     | 50.00       | 27.81       | V            |

**LTE FDD Band 26\_Channel Bandwidth 3MHz\_16QAM**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | G <sub>a</sub> Antenna Gain(dB) | P <sub>Aq</sub> (dB) | EIRP (dBm) | ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|---------------------------------|----------------------|------------|-----------|-------------|-------------|--------------|
| 815.5           | -19.2                  | 2.42                 | 8.45                            | 36.82                | 23.65      | 21.5      | 50.00       | 28.5        | V            |
| 819.0           | -17.33                 | 2.46                 | 8.45                            | 36.82                | 25.48      | 23.33     | 50.00       | 26.67       | V            |
| 822.5           | -18.06                 | 2.53                 | 8.36                            | 36.82                | 24.59      | 22.44     | 50.00       | 27.56       | V            |

**LTE FDD Band 26\_Channel Bandwidth 5MHz\_16QAM**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | G <sub>a</sub> Antenna Gain(dB) | P <sub>Aq</sub> (dB) | EIRP (dBm) | ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|---------------------------------|----------------------|------------|-----------|-------------|-------------|--------------|
| 816.5           | -18.58                 | 2.42                 | 8.45                            | 36.82                | 24.27      | 22.12     | 50.00       | 27.88       | V            |
| 819.0           | -17.02                 | 2.46                 | 8.45                            | 36.82                | 25.79      | 23.64     | 50.00       | 26.36       | V            |
| 821.5           | -17.65                 | 2.53                 | 8.36                            | 36.82                | 25         | 22.85     | 50.00       | 27.15       | V            |

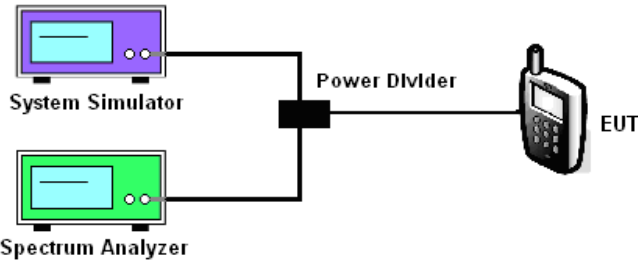
**LTE FDD Band 26\_Channel Bandwidth 10MHz\_16QAM**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | G <sub>a</sub> Antenna Gain(dB) | P <sub>Aq</sub> (dB) | EIRP (dBm) | ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|---------------------------------|----------------------|------------|-----------|-------------|-------------|--------------|
| 819.0           | -15.71                 | 2.46                 | 8.45                            | 36.82                | 27.1       | 24.95     | 50.00       | 25.05       | V            |



### 5.3. Peak to Average Ratio

#### 5.3.1. Test Specification

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Method:</b>    | FCC KDB 971168 D01v03                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Limit:</b>          | The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Test Setup:</b>     |  <p>The diagram shows a System Simulator (top) and a Spectrum Analyzer (bottom) connected to a central Power Divider. The Power Divider is then connected to the EUT (Equipment Under Test) on the right.</p>                                                                                                                                                             |
| <b>Test Procedure:</b> | <ol style="list-style-type: none"> <li>1. The testing follows FCC KDB 971168 D01v03 Section 5.7.1.</li> <li>2. The EUT was connected to spectrum analyzer and system simulator via a power divider.</li> <li>3. Set EUT to transmit at maximum output power.</li> <li>4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer.<br/>Record the maximum PAPR level associated with a probability of 0.1%.</li> </ol> |
| <b>Test Result:</b>    | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### TEST RESULTS

#### Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 26.

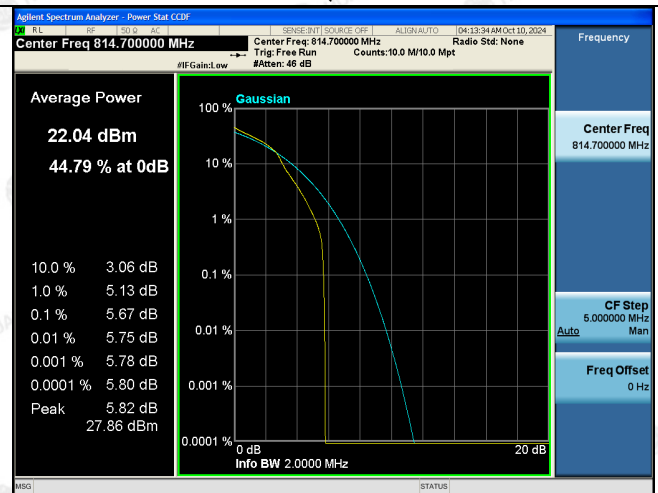
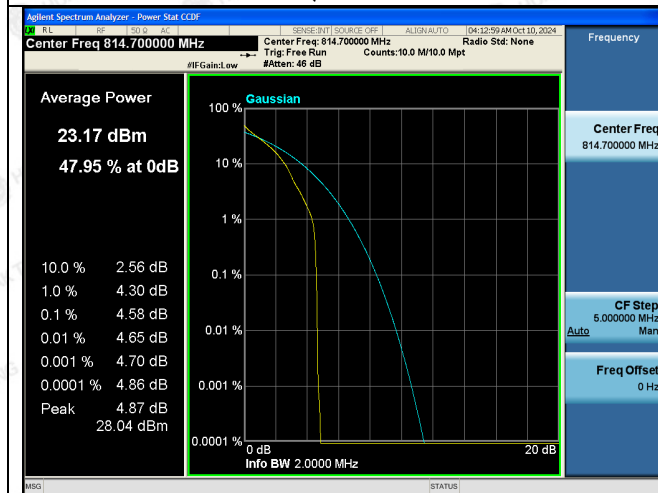
| LTE FDD Band 26      |                 |                |           |       |
|----------------------|-----------------|----------------|-----------|-------|
| TX Channel Bandwidth | Frequency (MHz) | RB Size/Offset | PAPR (dB) |       |
|                      |                 |                | QPSK      | 16QAM |
| 1.4 MHz              | 814.7           | 1RB#0          | 4.58      | 5.67  |
|                      | 819.0           |                | 4.70      | 5.70  |
|                      | 823.3           |                | 4.58      | 5.64  |
| 3 MHz                | 815.5           | 1RB#0          | 4.56      | 5.61  |
|                      | 819.0           |                | 4.71      | 5.78  |
|                      | 822.5           |                | 4.68      | 5.60  |
| 5 MHz                | 816.5           | 1RB#0          | 4.59      | 5.52  |
|                      | 819.0           |                | 4.70      | 5.67  |
|                      | 821.5           |                | 4.67      | 5.62  |
| 10 MHz               | 819.0           | 1RB#0          | 4.63      | 5.53  |



## LTE FDD Band 26-1.4MHz Channel Bandwidth PAPR

## QPSK

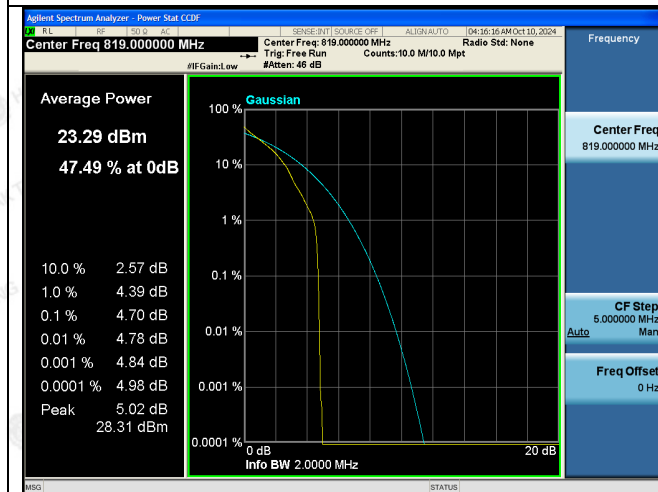
## 16QAM



1RB#0

1RB#0

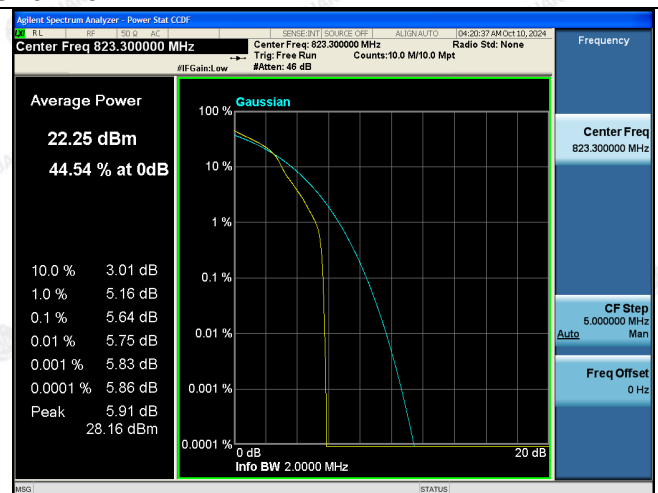
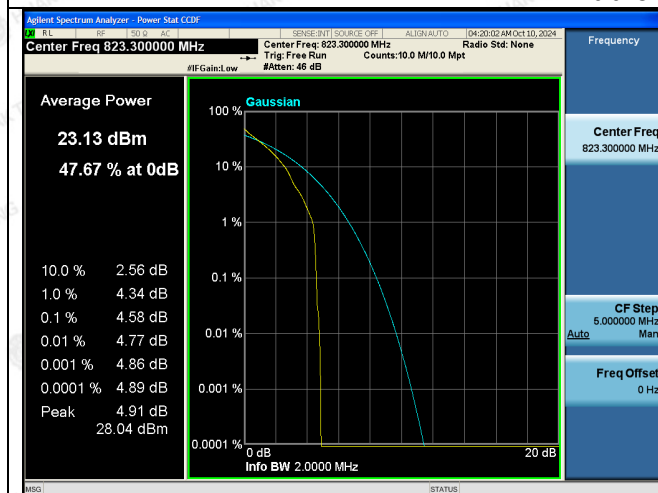
## Low Channel



1RB#0

1RB#0

## Middle Channel



1RB#0

1RB#0

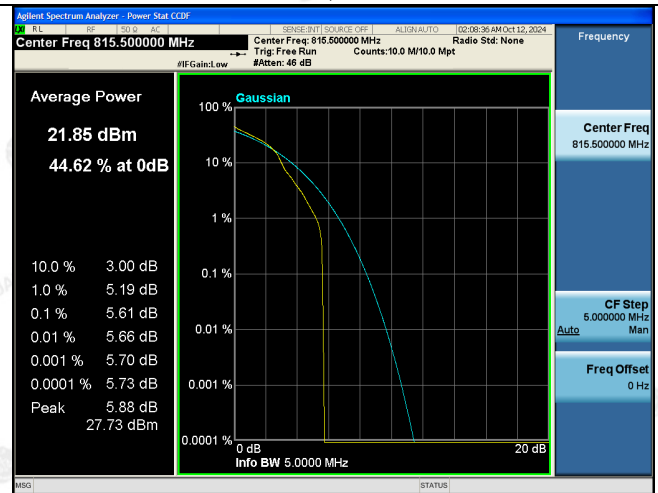
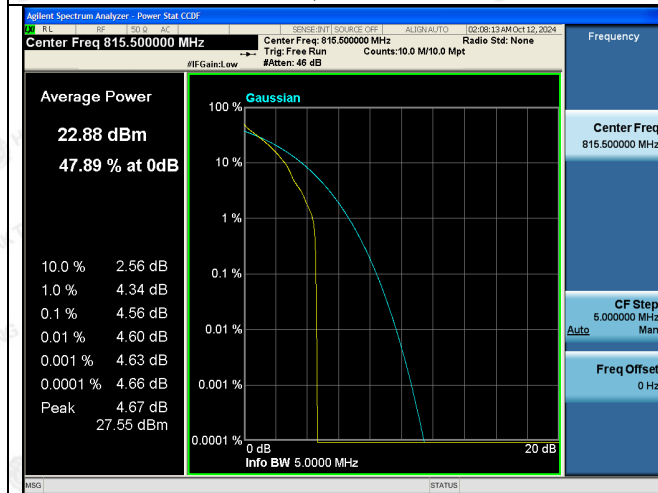
## High Channel



## LTE FDD Band 26-3MHz Channel Bandwidth PAPR

## QPSK

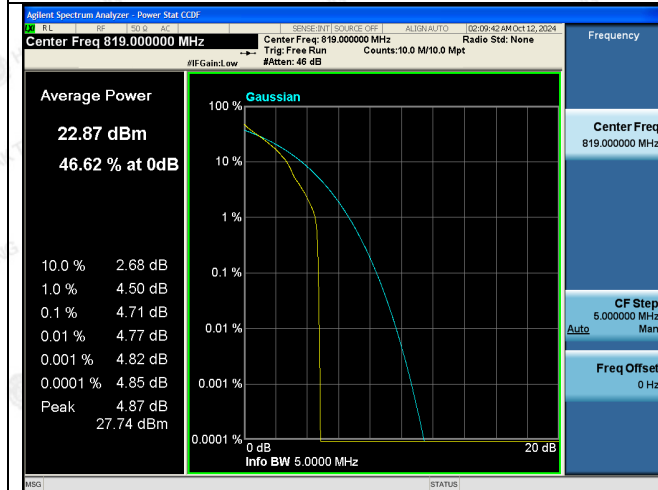
## 16QAM



1RB#0

1RB#0

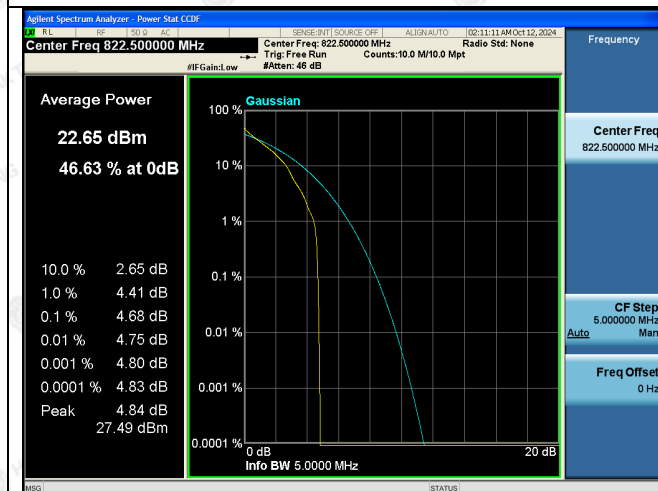
## Low Channel



1RB#0

1RB#0

## Middle Channel



1RB#0

1RB#0

## High Channel

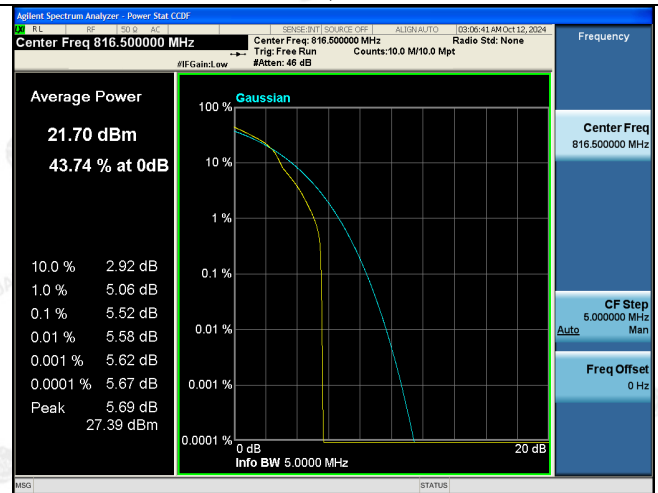
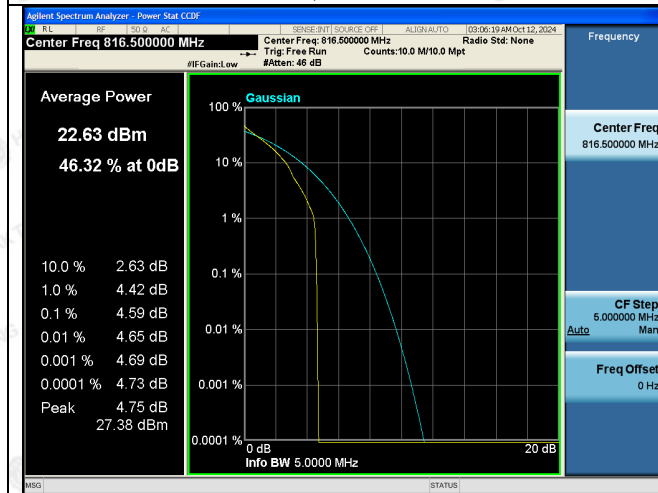




## LTE FDD Band 26-5MHz Channel Bandwidth PAPR

## QPSK

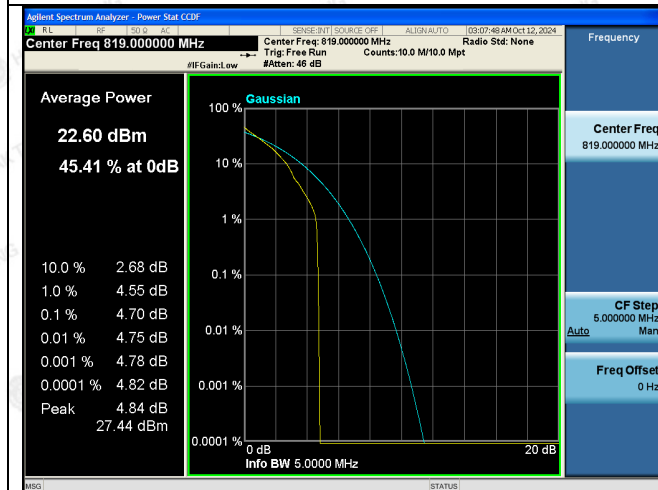
## 16QAM



1RB#0

1RB#0

## Low Channel



1RB#0

1RB#0

## Middle Channel



1RB#0

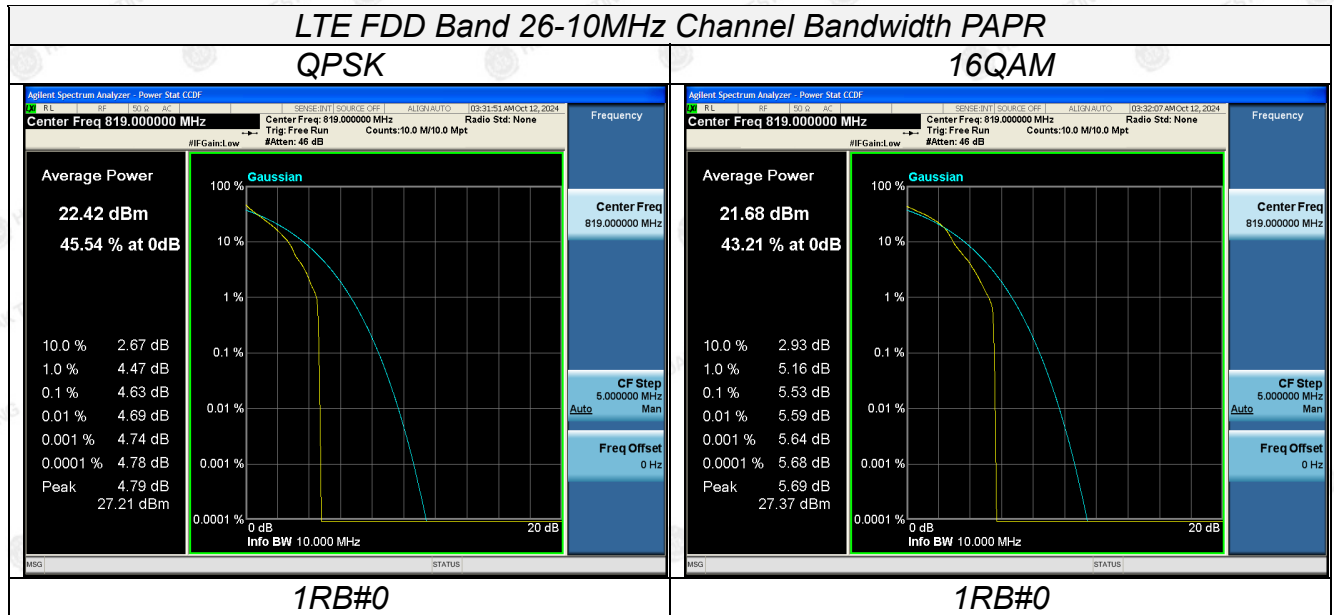
1RB#0

## High Channel

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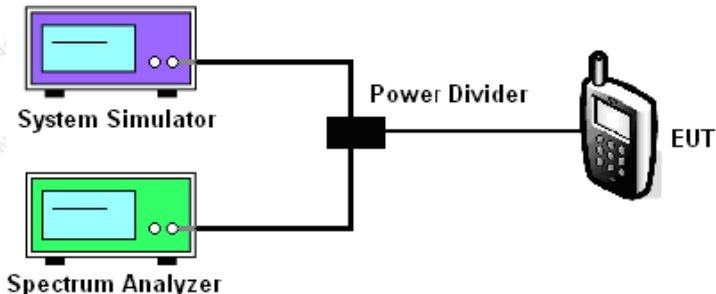
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China





## 5.4. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

### 5.4.1. Test Specification

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Method:    | FCC part 2.1049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Limit:          | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Setup:     |  <p>The diagram shows a System Simulator (purple box) and a Spectrum Analyzer (green box) connected to a Power Divider (black box). The Power Divider is then connected to the EUT (Equipment Under Test, represented by a mobile phone icon).</p>                                                                                                                                                                                                                                                                                              |
| Test Procedure: | <ol style="list-style-type: none"><li>1. The testing follows FCC KDB 971168 D01v03 Section 4.2.</li><li>2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.</li><li>3. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li><li>4. The 99% occupied bandwidth were measured, set RBW= 1% of OBW, VBW= 3*RBW, sample detector, trace maximum hold.</li><li>5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.</li></ol> |
| Test Result:    | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## TEST RESULTS

### Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 26.



| <i>LTE FDD Band 26</i> |                |                 |                                 |       |                              |        |
|------------------------|----------------|-----------------|---------------------------------|-------|------------------------------|--------|
| TX Channel Bandwidth   | RB Size/Offset | Frequency (MHz) | -26dBc Emission bandwidth (MHz) |       | 99% Occupied bandwidth (MHz) |        |
|                        |                |                 | QPSK                            | 16QAM | QPSK                         | 16QAM  |
| 1.4 MHz                | 6RB#0          | 814.7           | 1.296                           | 1.300 | 1.0914                       | 1.0992 |
|                        |                | 819.0           | 1.294                           | 1.304 | 1.0956                       | 1.0977 |
|                        |                | 823.3           | 1.279                           | 1.284 | 1.0938                       | 1.0942 |
| 3 MHz                  | 15RB#0         | 815.5           | 2.963                           | 2.970 | 2.7051                       | 2.7006 |
|                        |                | 819.0           | 2.962                           | 2.969 | 2.7058                       | 2.6921 |
|                        |                | 822.5           | 2.975                           | 2.961 | 2.6916                       | 2.6975 |
| 5 MHz                  | 25RB#0         | 816.5           | 5.023                           | 4.995 | 4.5111                       | 4.5064 |
|                        |                | 819.0           | 4.987                           | 5.041 | 4.4974                       | 4.5083 |
|                        |                | 821.5           | 5.002                           | 5.045 | 4.5063                       | 4.5197 |
| 10 MHz                 | 50RB#0         | 819.0           | 9.884                           | 9.873 | 8.9671                       | 8.9587 |

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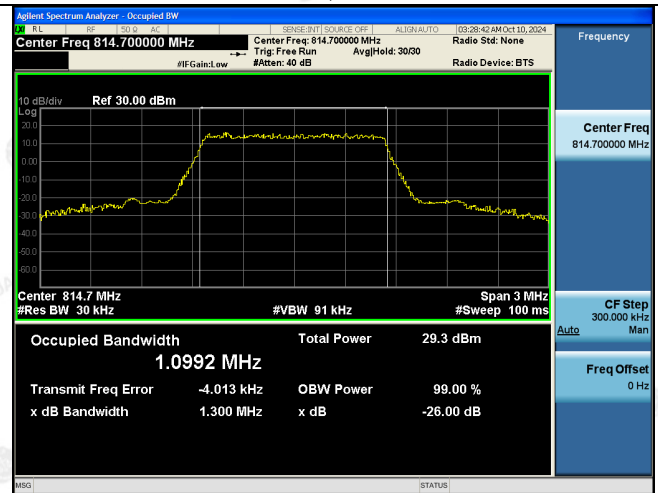




## LTE FDD Band 26-1.4MHz Channel Bandwidth

## QPSK

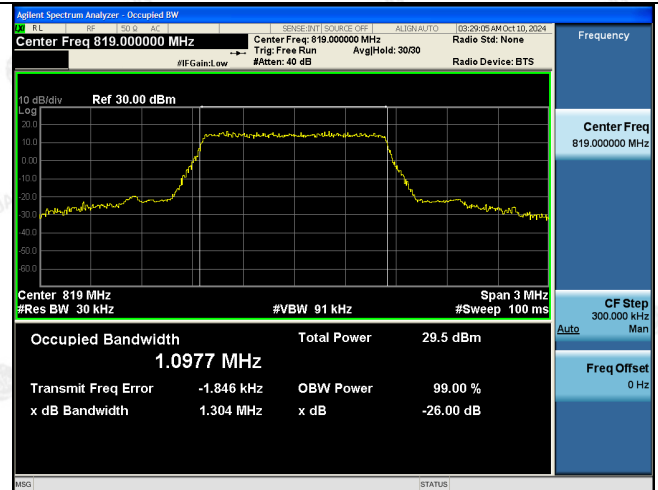
## 16QAM



6RB#0

6RB#0

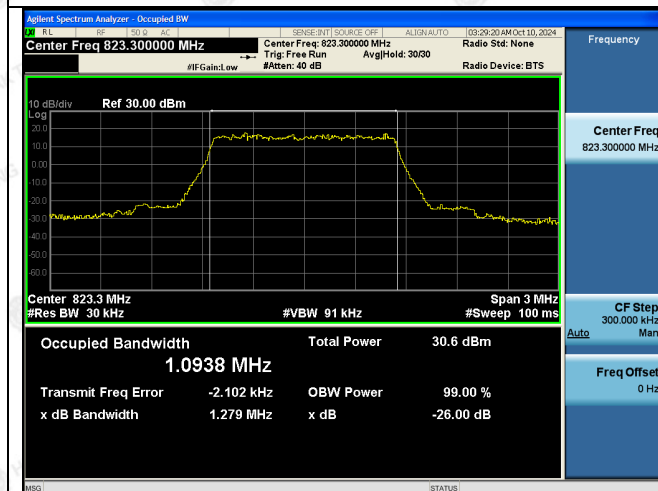
## Low Channel



6RB#0

6RB#0

## Middle Channel



6RB#0

6RB#0

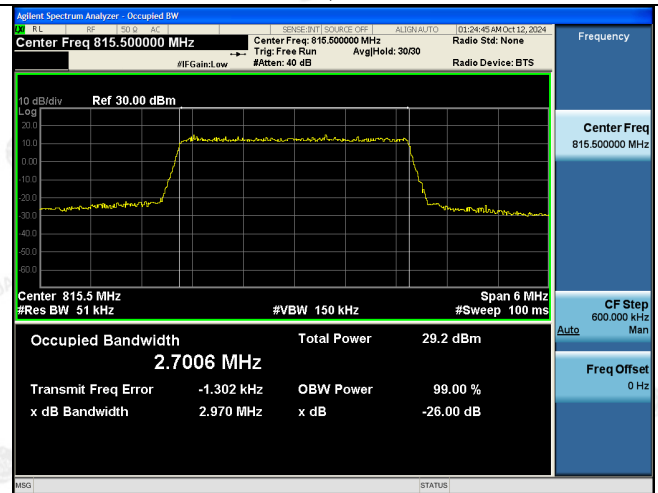
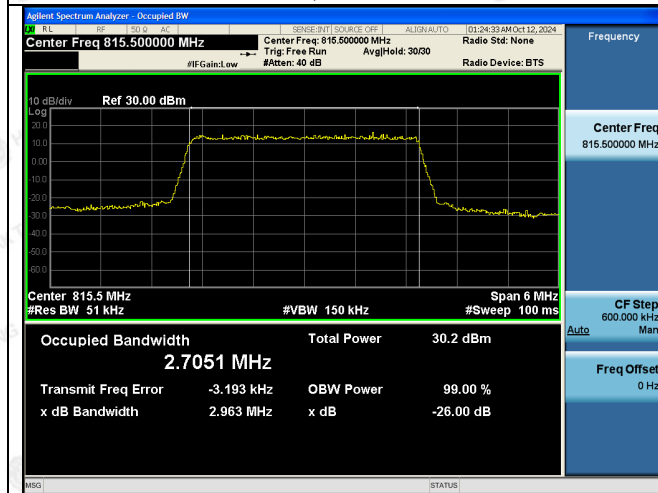
## High Channel



## LTE FDD Band 26-3MHz Channel Bandwidth

## QPSK

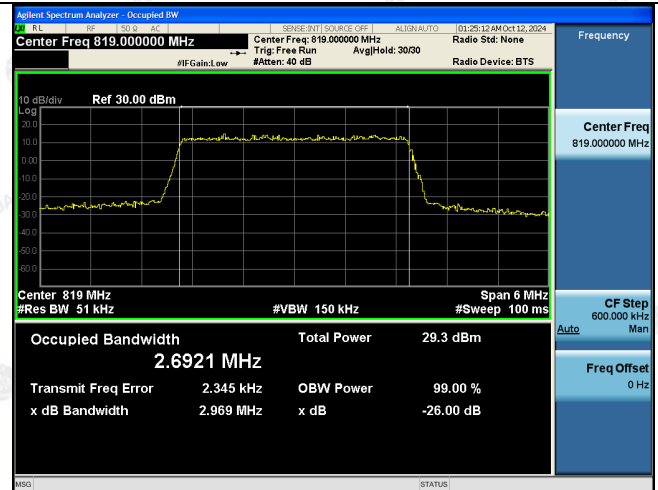
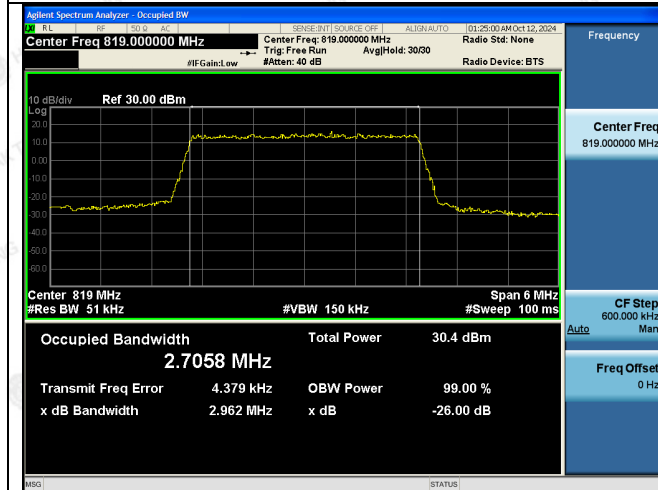
## 16QAM



15RB#0

15RB#0

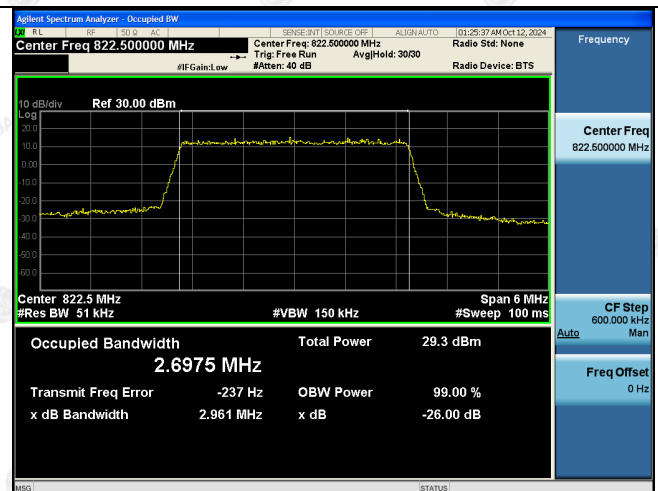
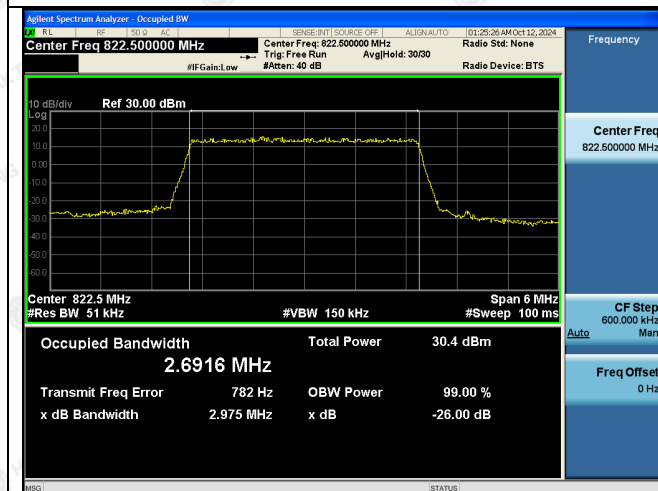
## Low Channel



15RB#0

15RB#0

## Middle Channel



15RB#0

15RB#0

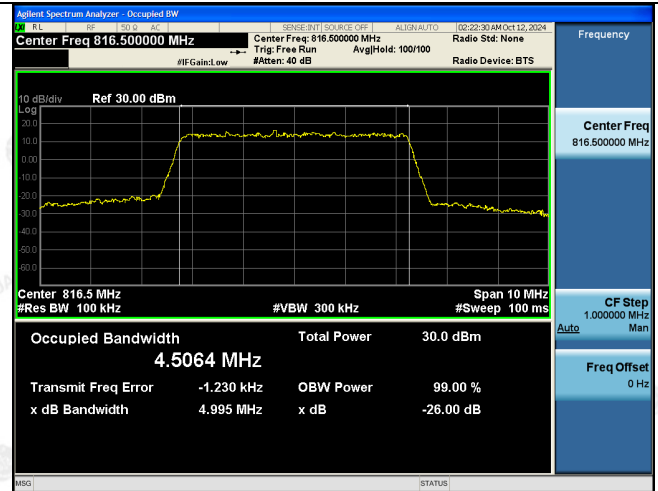
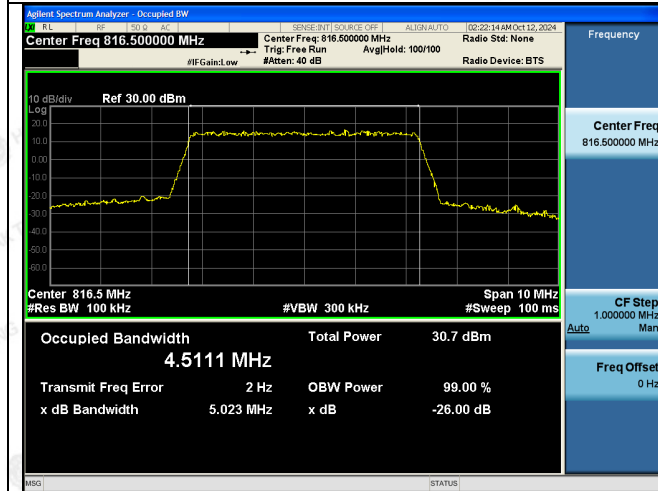
## High Channel



## LTE FDD Band 26-5MHz Channel Bandwidth

## QPSK

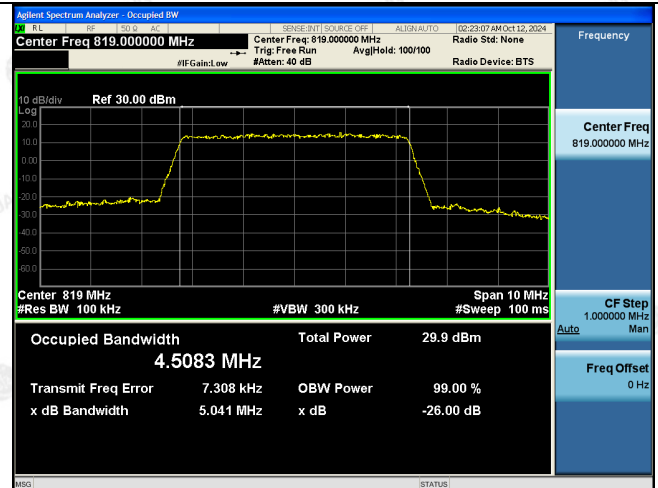
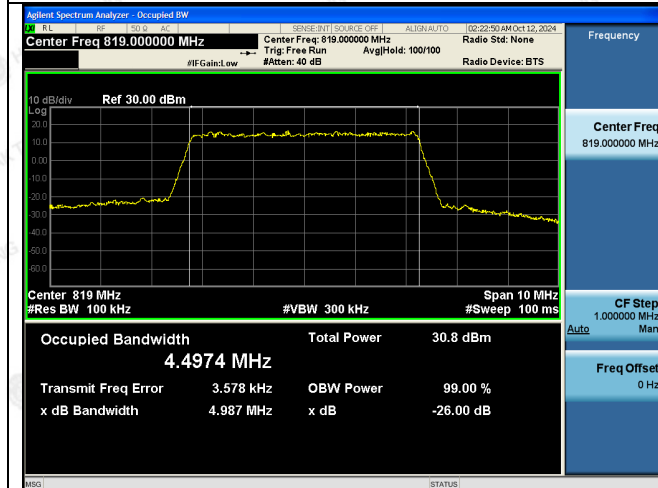
## 16QAM



25RB#0

25RB#0

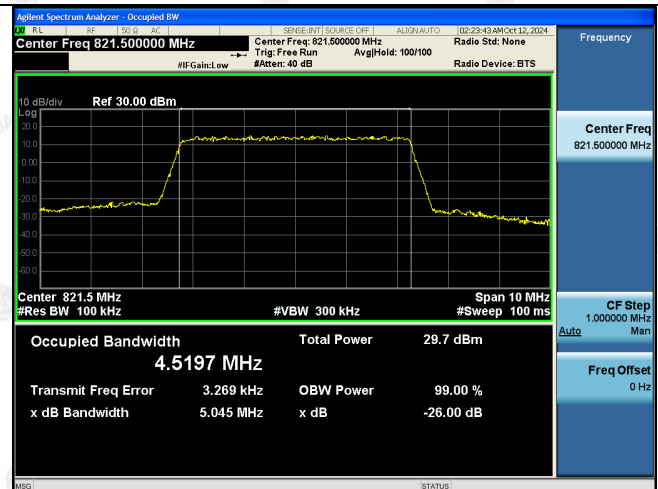
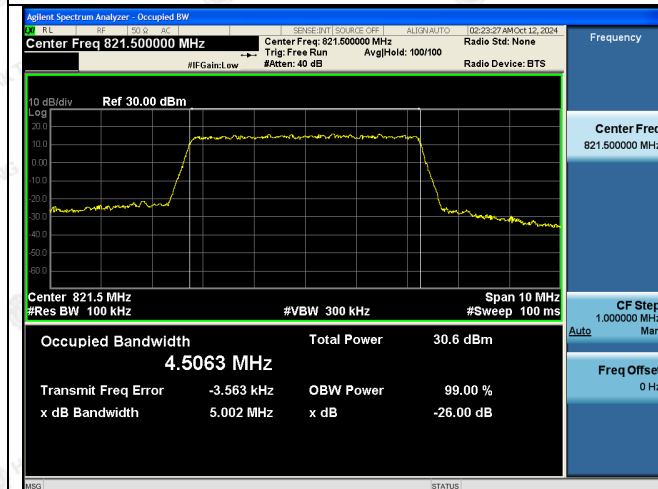
## Low Channel



25RB#0

25RB#0

## Middle Channel



25RB#0

25RB#0

## Middle Channel



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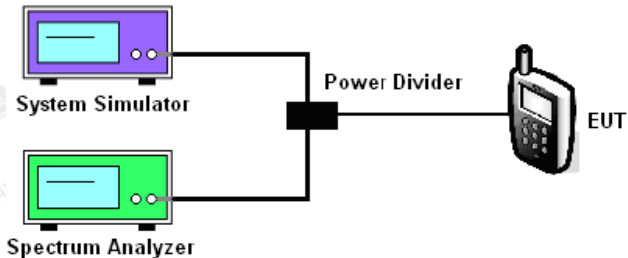
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China





## 5.5. Band Edge and Conducted Spurious Emission Measurement

### 5.5.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC part 90.691                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Test Method:</b>      | FCC part 2.1051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Limit:</b>            | For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.                                                                                                                                                                                                                        |
| <b>Test Setup:</b>       |  <p>The diagram shows a System Simulator (purple box) and a Spectrum Analyzer (green box) connected to a Power Divider (black box). The Power Divider is also connected to the EUT (Equipment Under Test, represented by a mobile phone icon).</p>                                                                                                                                                                                                                                                                                                                                                     |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"><li>1. The testing follows FCC KDB 971168 D01v03 Section 6.0.</li><li>2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.</li><li>3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.</li><li>4. The band edges of low and high channels for the highest RF powers were measured.</li><li>5. The conducted spurious emission for the whole frequency range was taken.</li><li>6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li></ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## TEST RESULTS

### Remark:

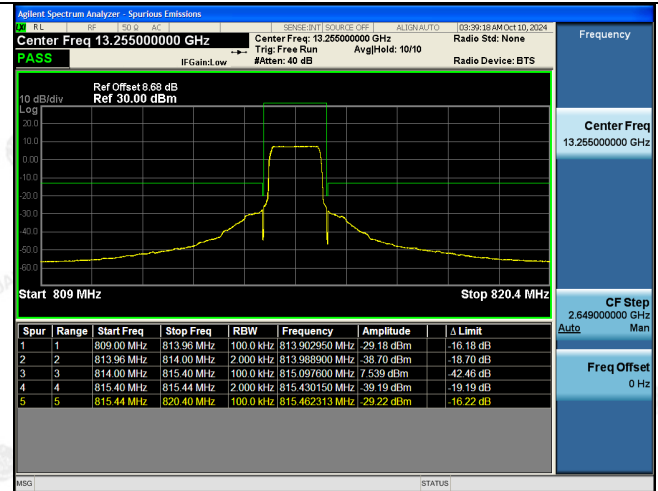
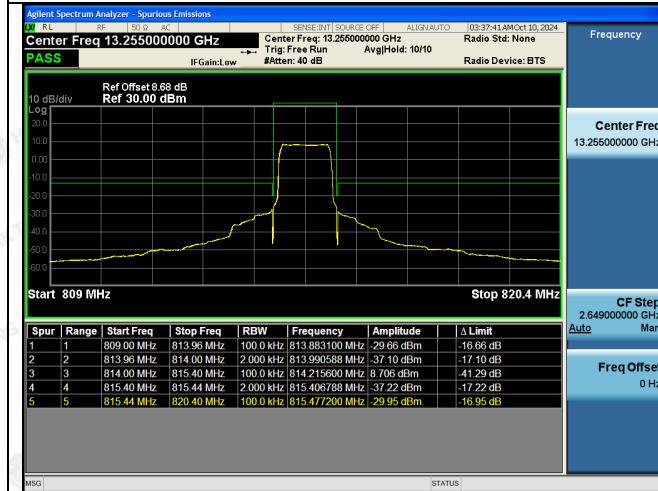
1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 26.



## LTE FDD Band 26-1.4MHz Channel Bandwidth Band Edge Compliance

## QPSK

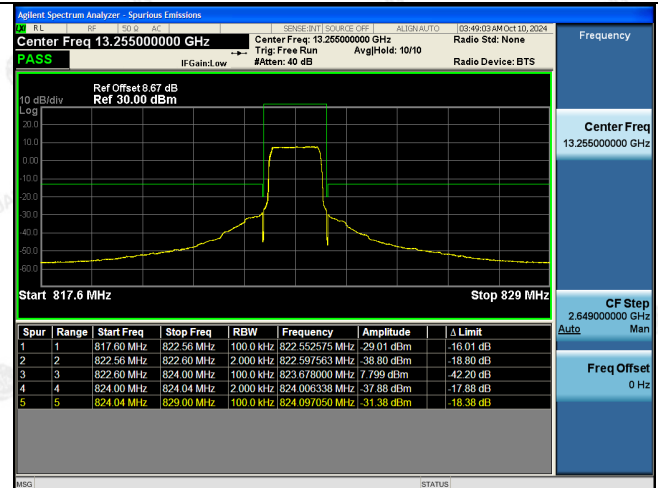
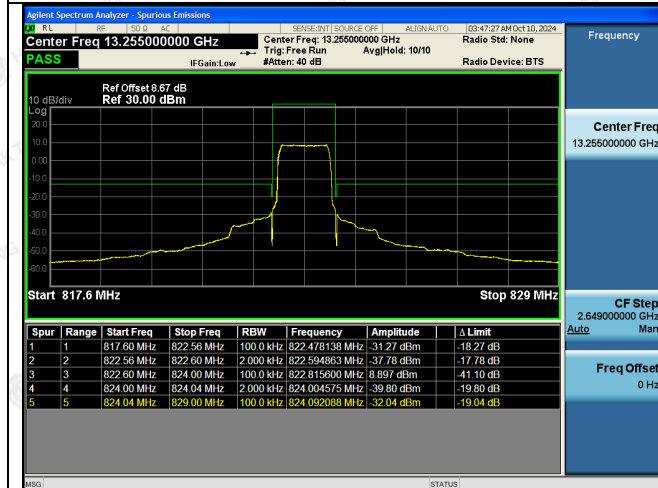
## 16QAM



6RB#0

6RB#0

## Low Channel



6RB#0

6RB#0

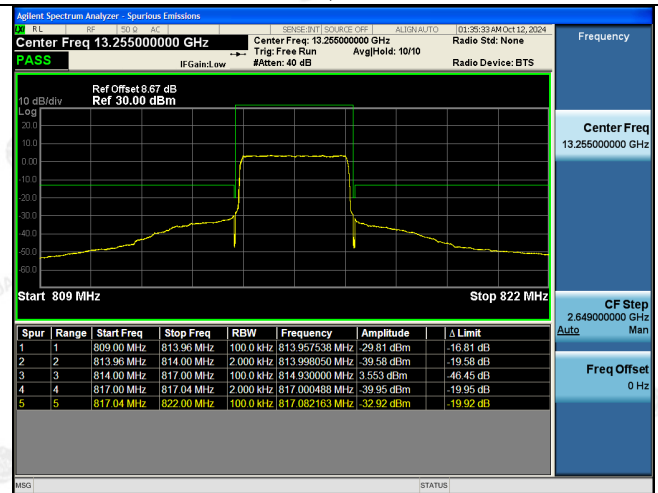
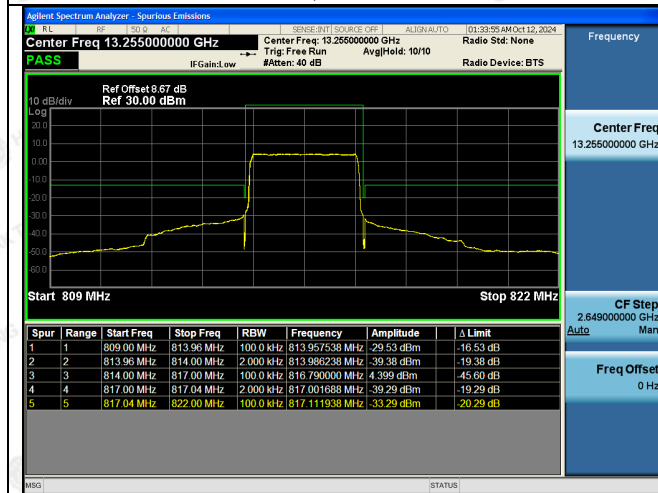
## High Channel



## LTE FDD Band 26-3MHz Channel Bandwidth Band Edge Compliance

## QPSK

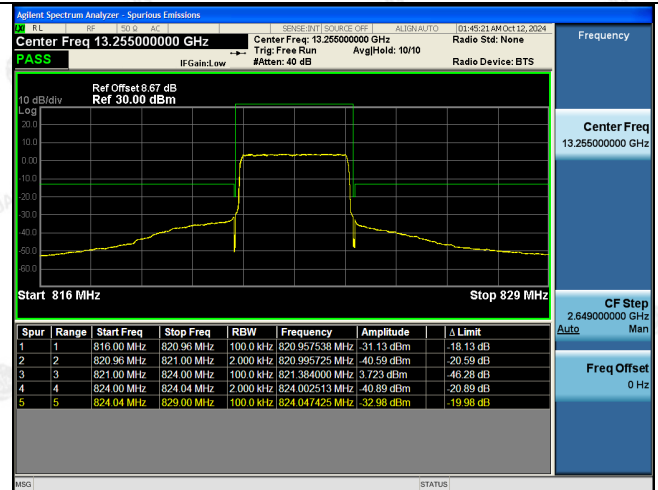
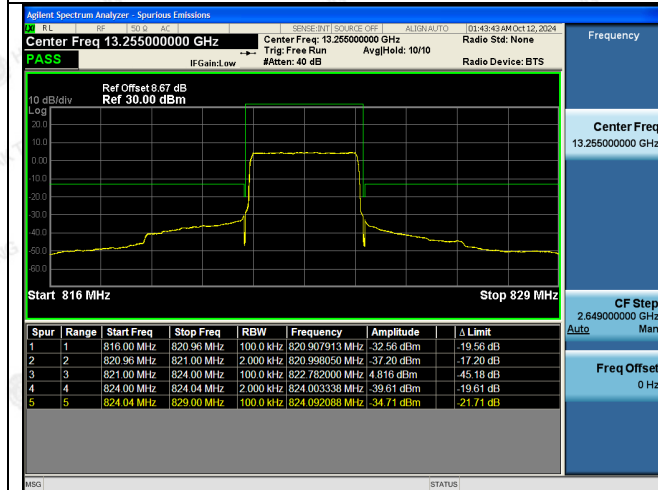
## 16QAM



15RB#0

15RB#0

## Low Channel



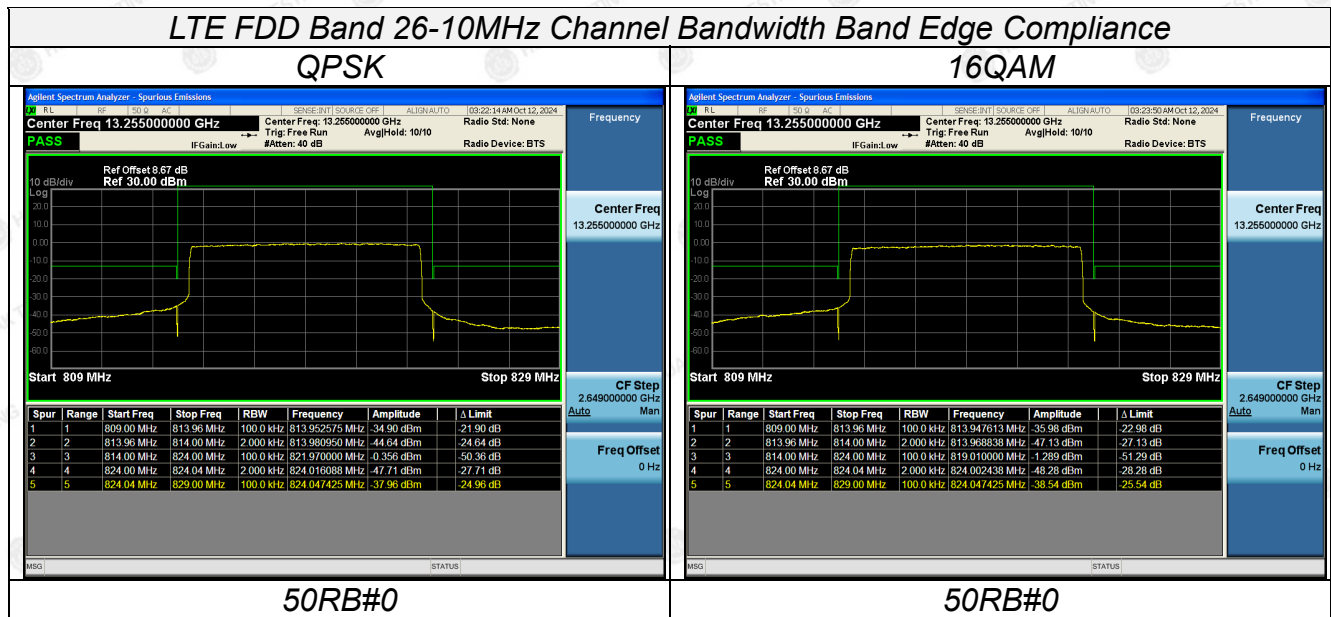
15RB#0

15RB#0

## High Channel

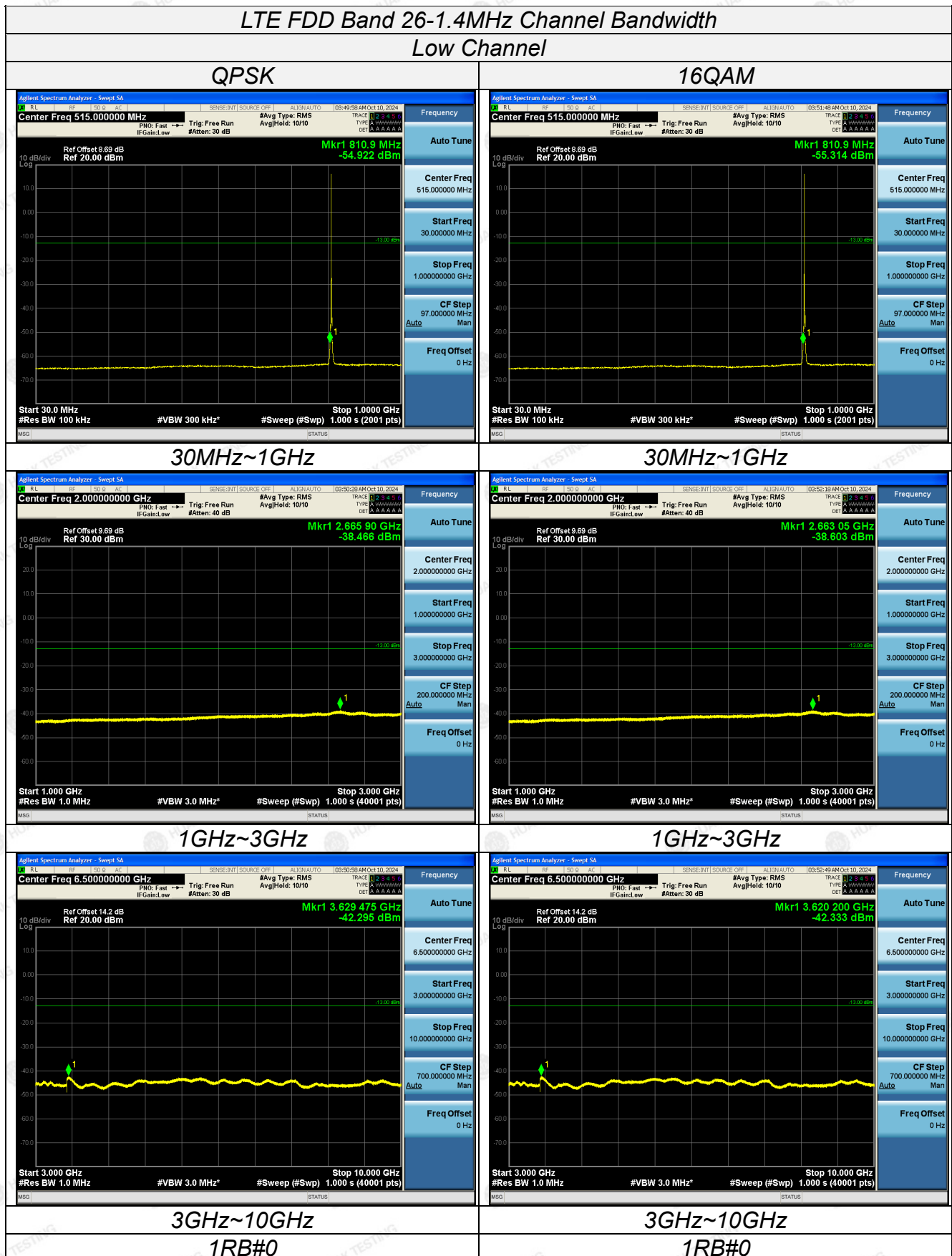








## Conducted Measurement:



The results shown in this test report refer only to the sample(s) tested otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

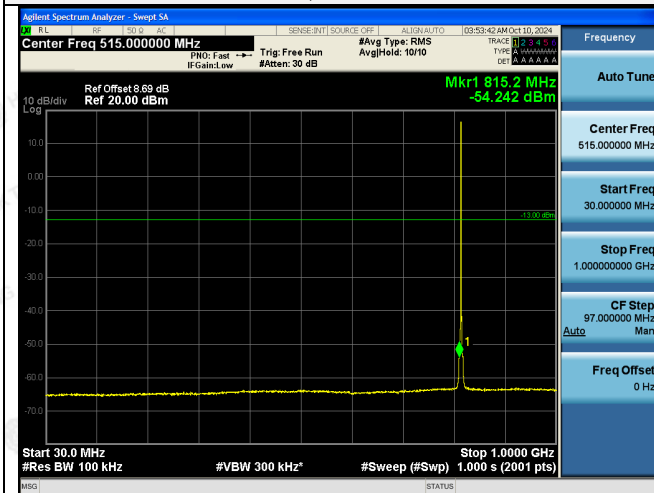
TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

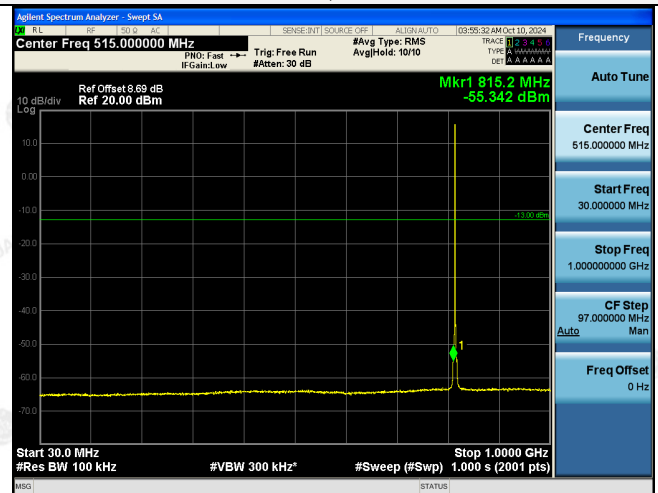


### LTE FDD Band 26-1.4MHz Channel Bandwidth Middle Channel

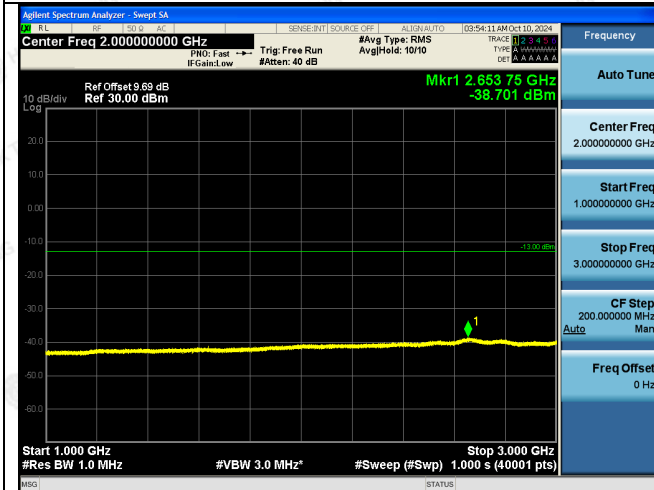
#### QPSK



#### 16QAM



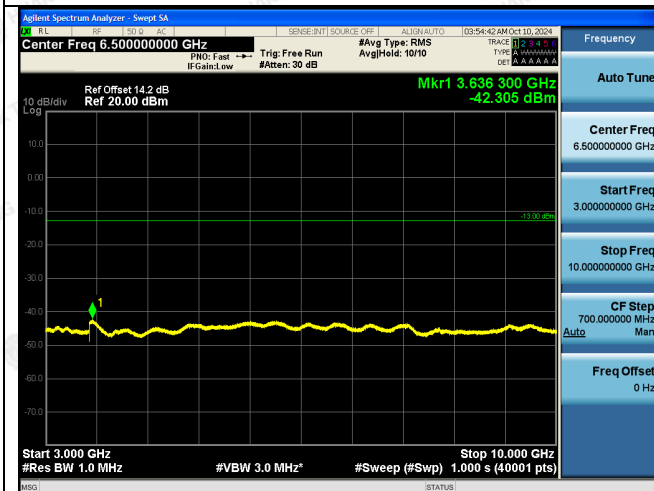
#### 30MHz~1GHz



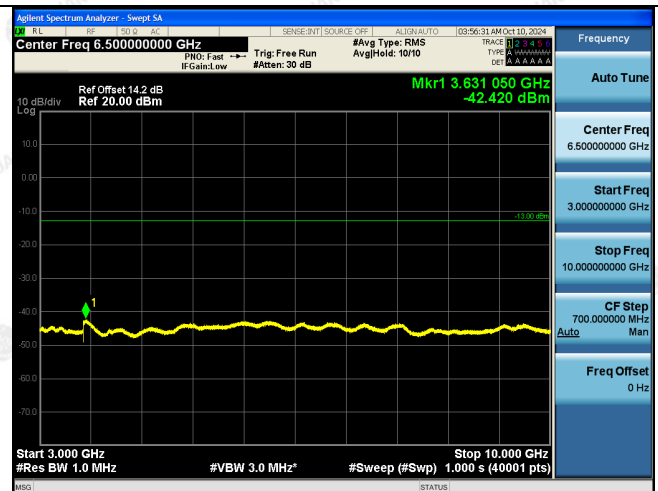
#### 30MHz~1GHz



#### 1GHz~3GHz



#### 1GHz~3GHz



#### 3GHz~10GHz

1RB#0

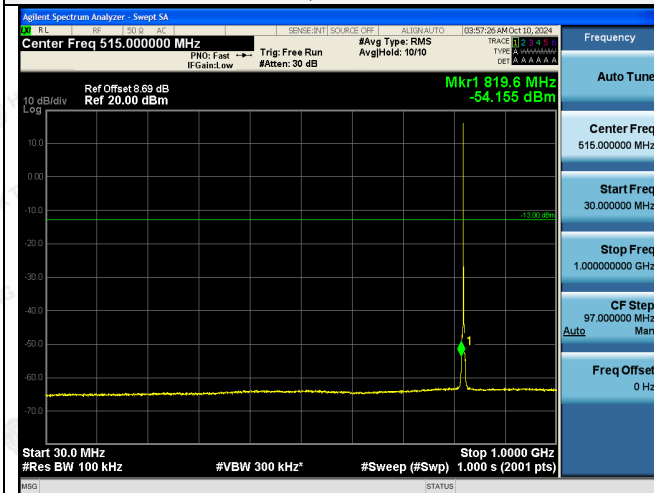
#### 3GHz~10GHz

1RB#0

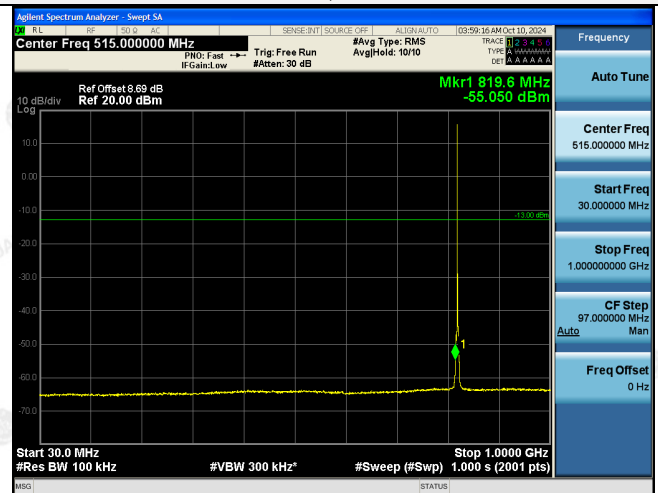


### LTE FDD Band 26-1.4MHz Channel Bandwidth High Channel

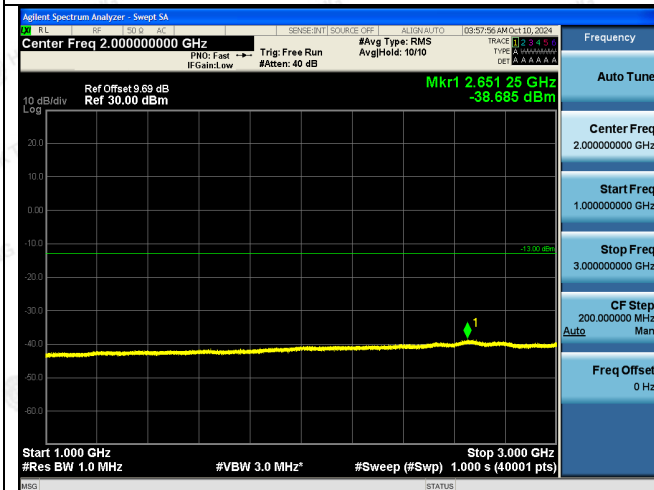
#### QPSK



#### 16QAM



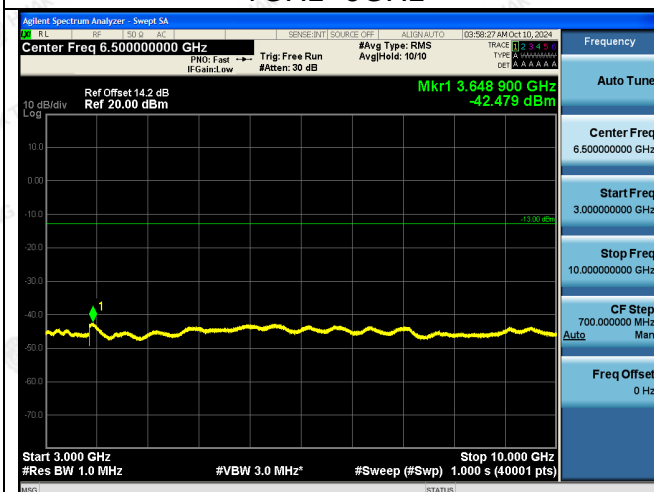
#### 30MHz~1GHz



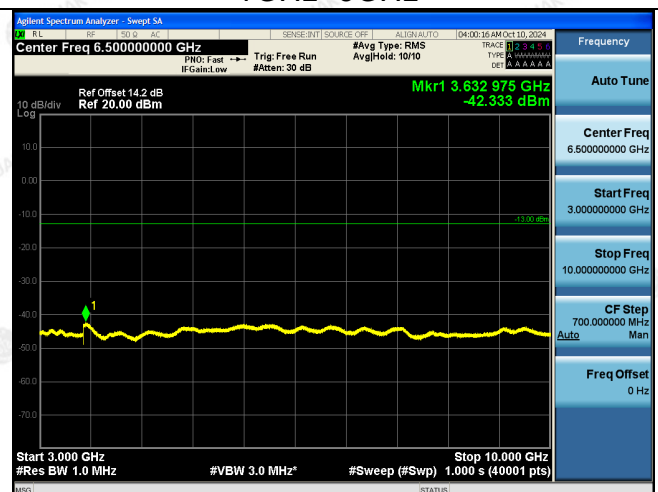
#### 30MHz~1GHz



#### 1GHz~3GHz



#### 1GHz~3GHz



#### 3GHz~10GHz

1RB#0

#### 3GHz~10GHz

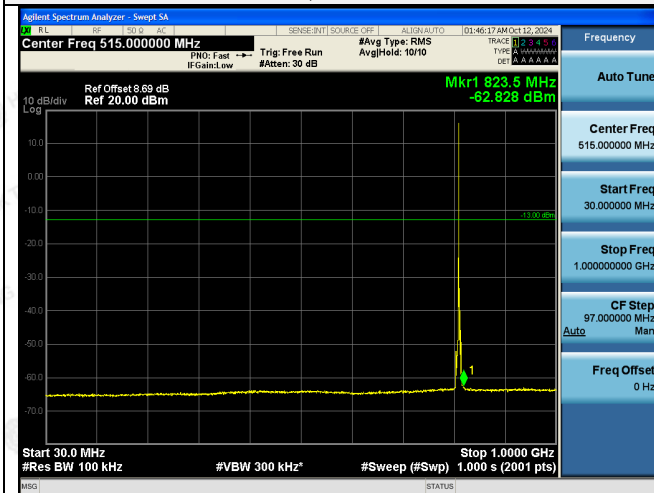
1RB#0



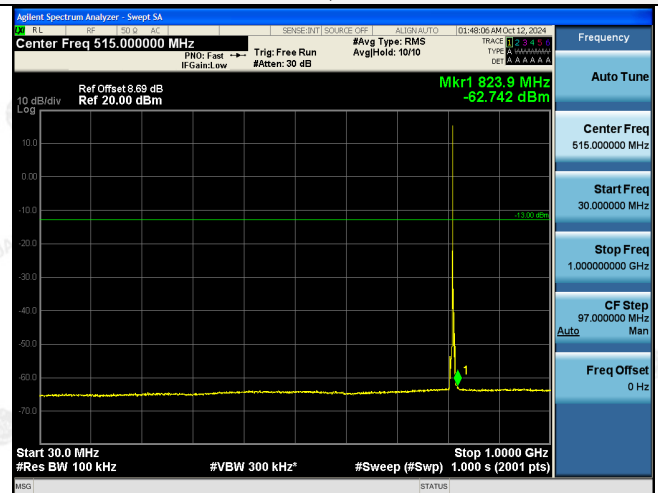


### LTE FDD Band 26-3MHz Channel Bandwidth Low Channel

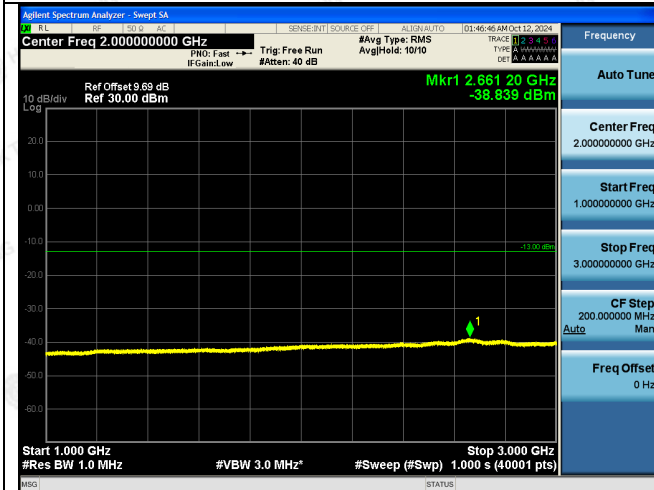
#### QPSK



#### 16QAM



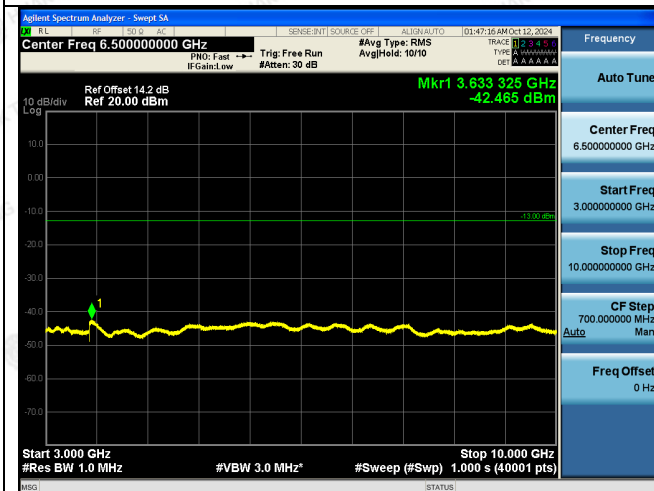
#### 30MHz~1GHz



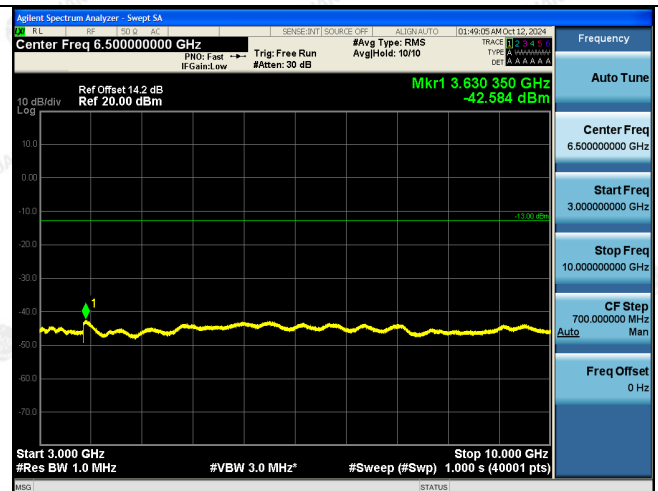
#### 30MHz~1GHz



#### 1GHz~3GHz



#### 1GHz~3GHz



#### 3GHz~10GHz

1RB#0

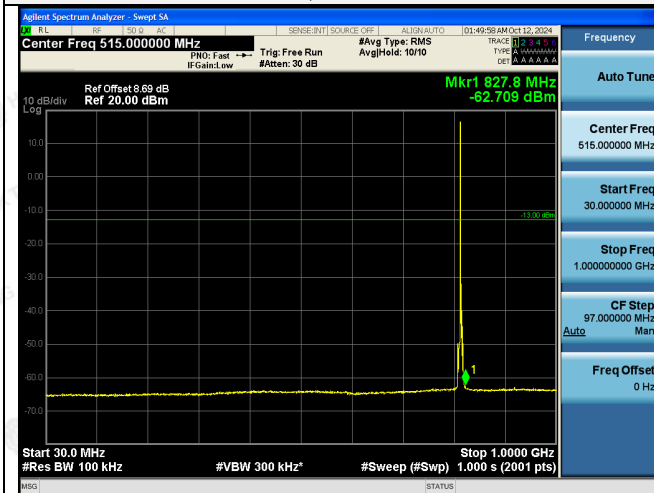
#### 3GHz~10GHz

1RB#0

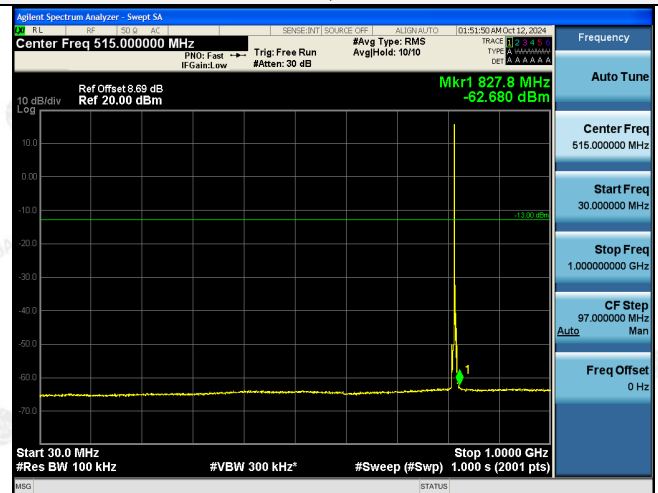


### LTE FDD Band 26-3MHz Channel Bandwidth Middle Channel

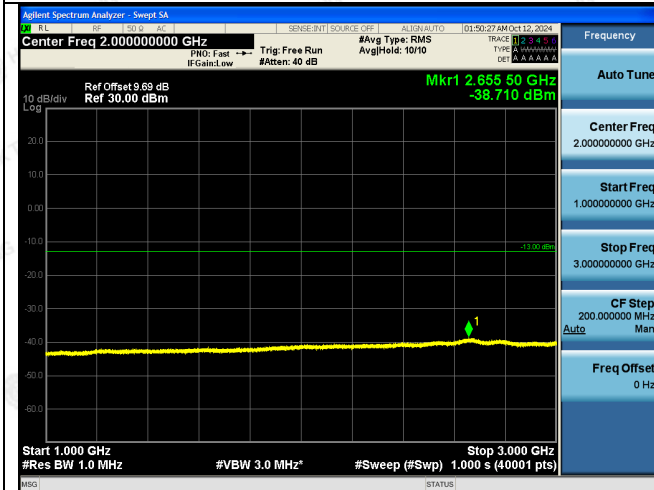
#### QPSK



#### 16QAM



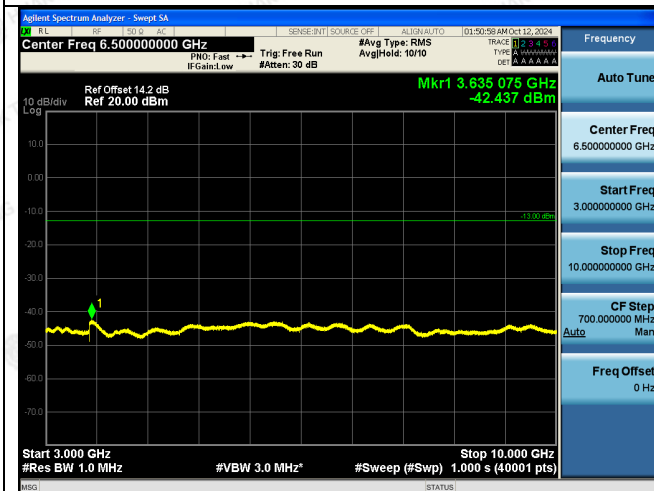
#### 30MHz~1GHz



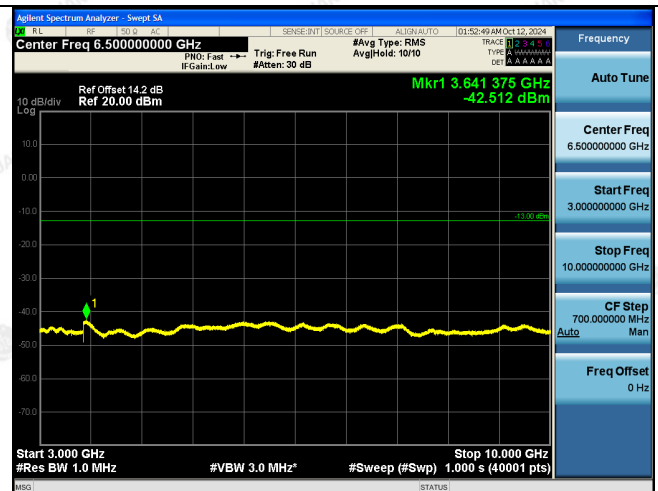
#### 30MHz~1GHz



#### 1GHz~3GHz



#### 1GHz~3GHz



#### 3GHz~10GHz

#### 1RB#0

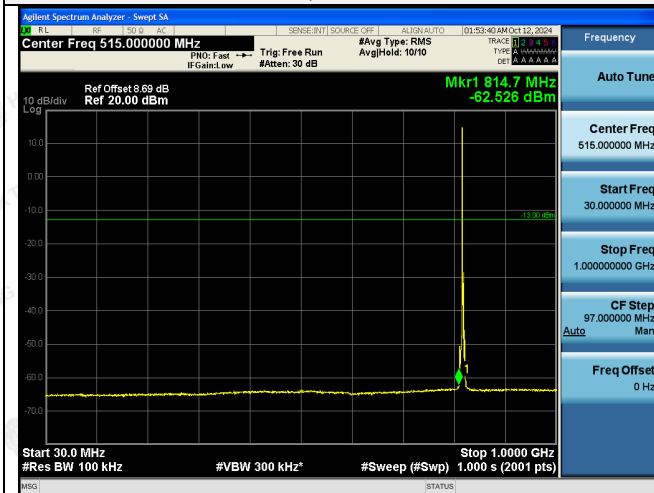
#### 3GHz~10GHz

#### 1RB#0

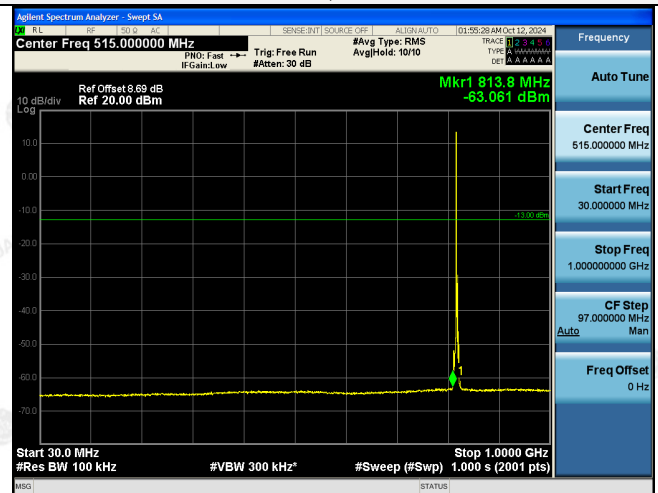


### LTE FDD Band 26-3MHz Channel Bandwidth High Channel

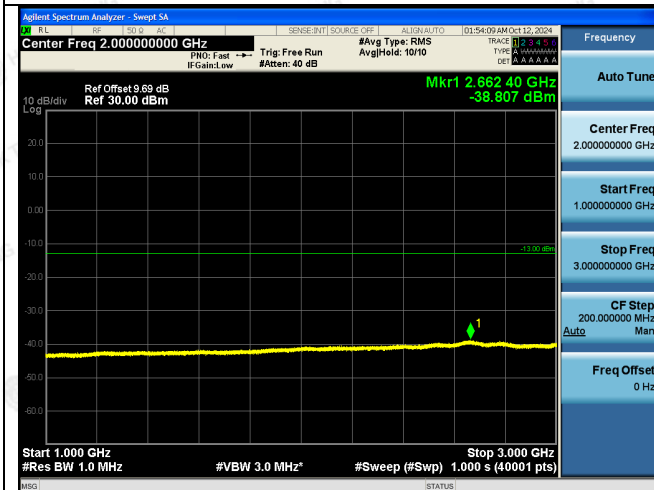
#### QPSK



#### 16QAM



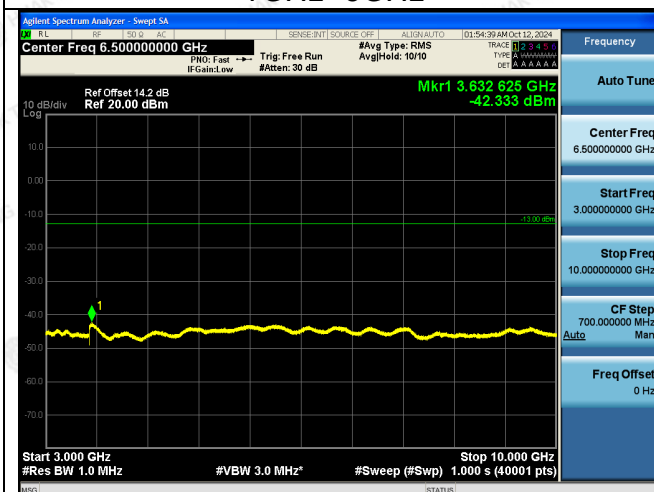
#### 30MHz~1GHz



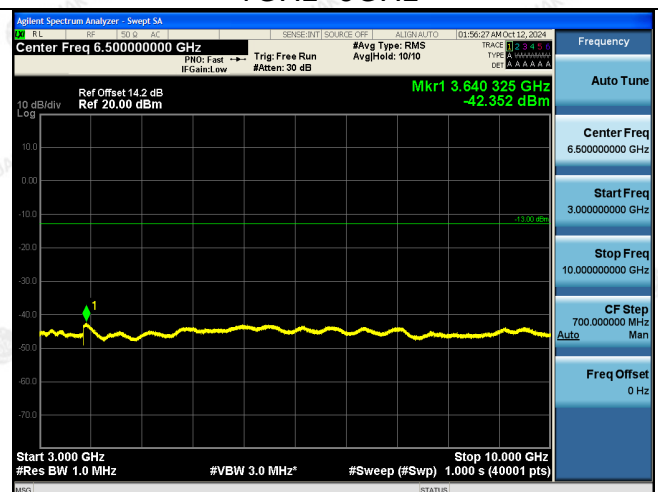
#### 30MHz~1GHz



#### 1GHz~3GHz



#### 1GHz~3GHz



#### 3GHz~10GHz

#### 1RB#0

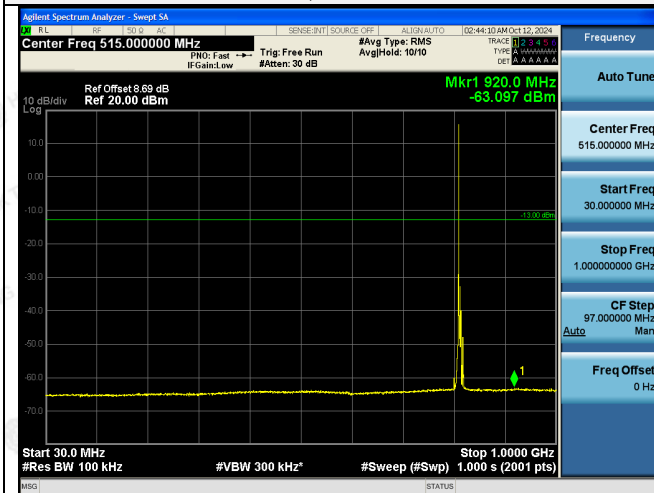
#### 3GHz~10GHz

#### 1RB#0

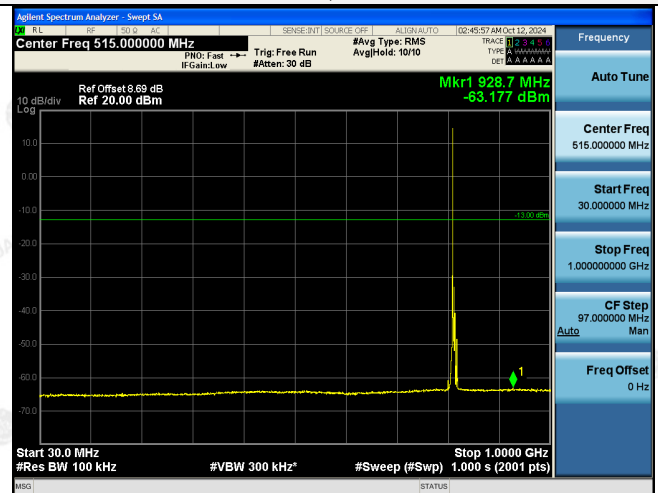


### LTE FDD Band 26-5MHz Channel Bandwidth Low Channel

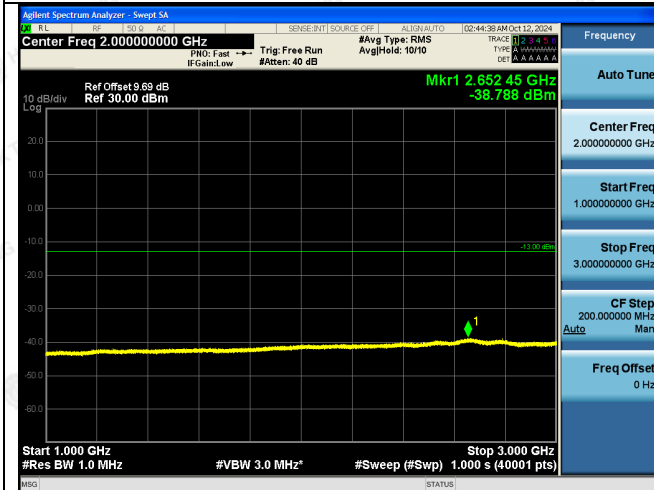
#### QPSK



#### 16QAM



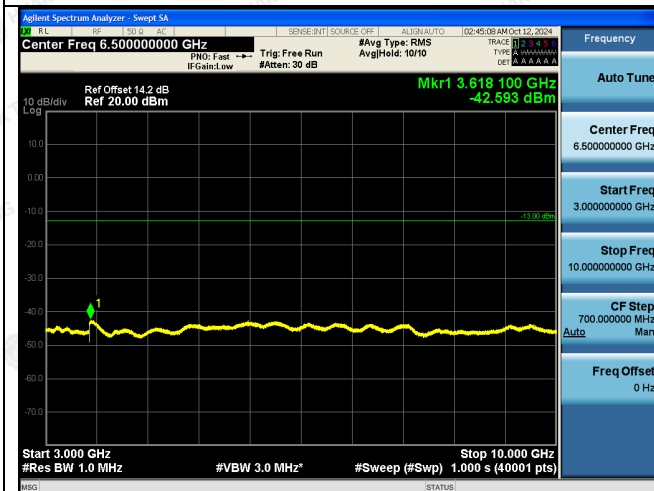
#### 30MHz~1GHz



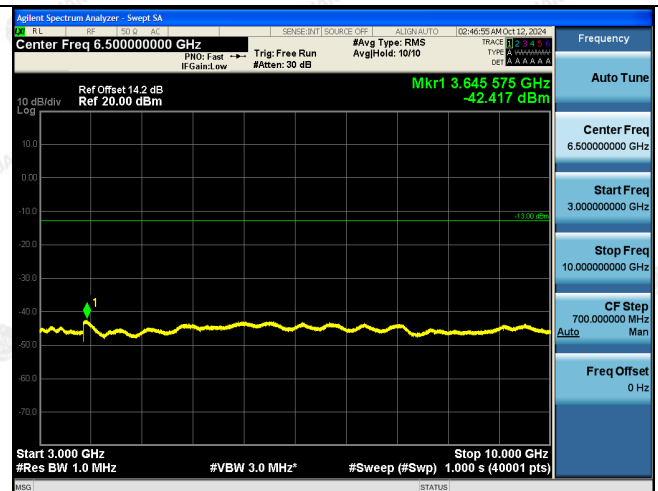
#### 30MHz~1GHz



#### 1GHz~3GHz



#### 1GHz~3GHz



#### 3GHz~10GHz

1RB#0

#### 3GHz~10GHz

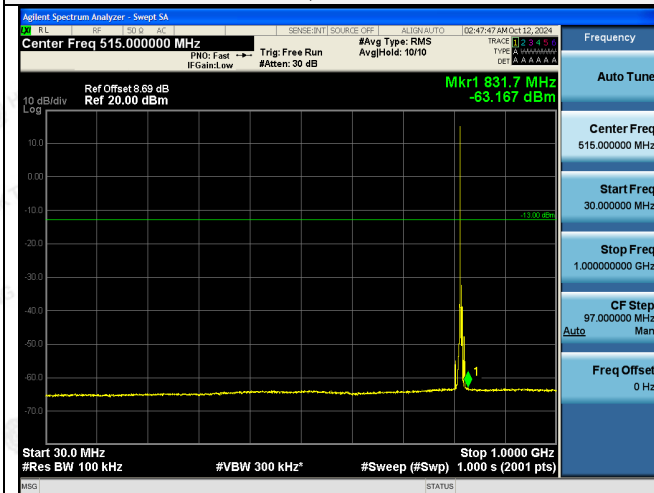
1RB#0



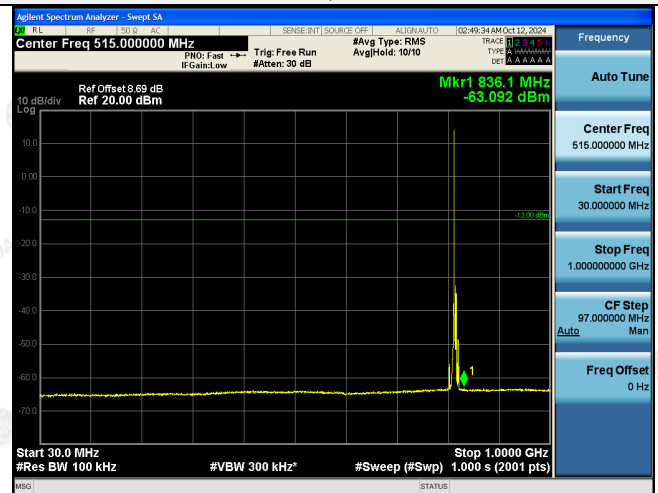


### LTE FDD Band 26-5MHz Channel Bandwidth Middle Channel

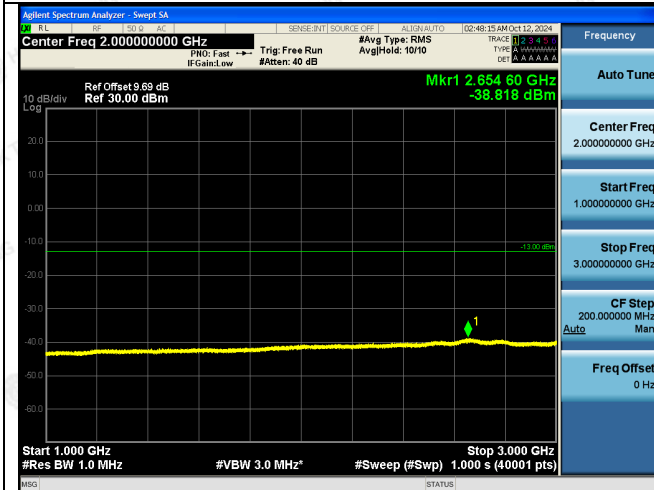
#### QPSK



#### 16QAM



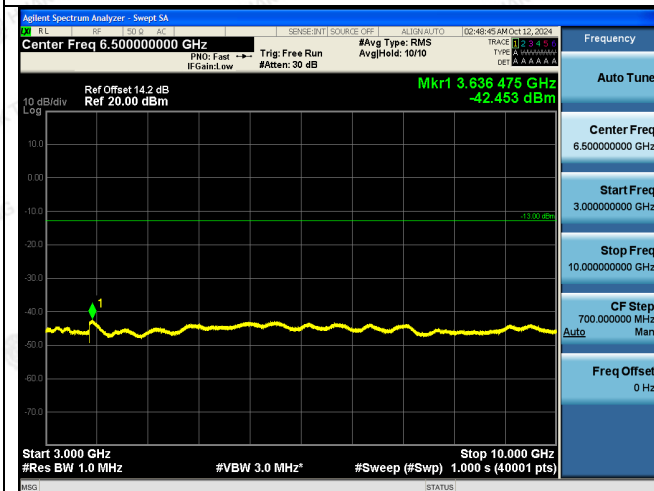
#### 30MHz~1GHz



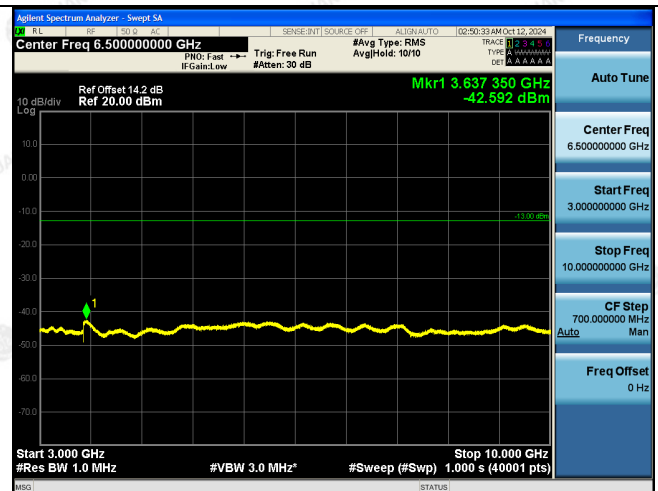
#### 30MHz~1GHz



#### 1GHz~3GHz



#### 1GHz~3GHz



#### 3GHz~10GHz

1RB#0

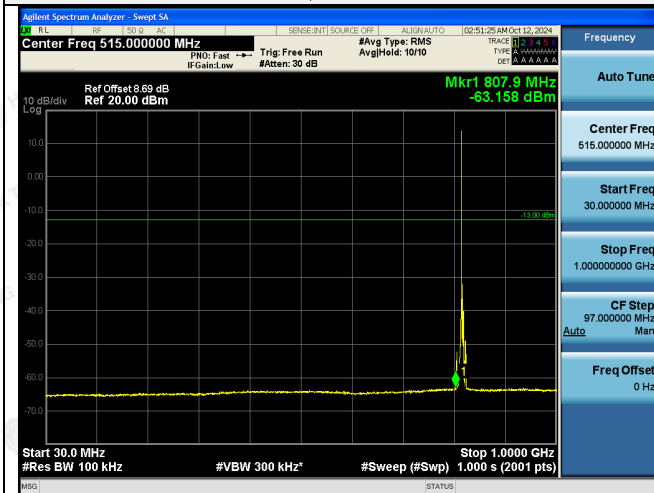
#### 3GHz~10GHz

1RB#0

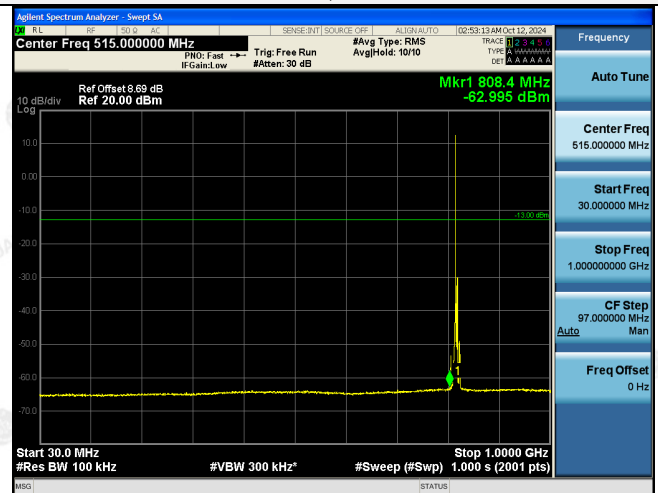


### LTE FDD Band 26-5MHz Channel Bandwidth High Channel

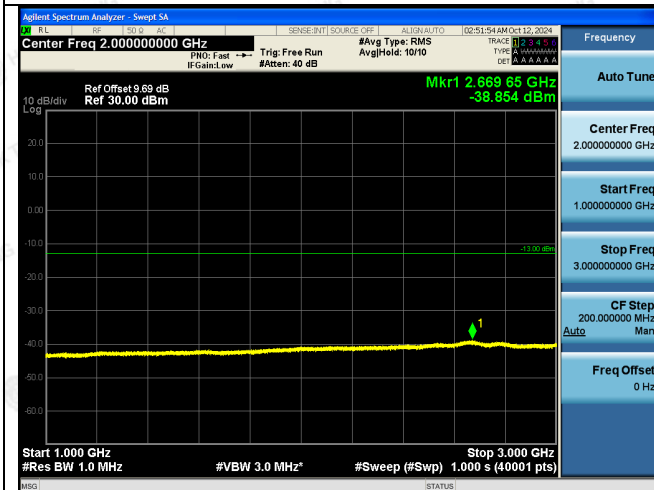
#### QPSK



#### 16QAM



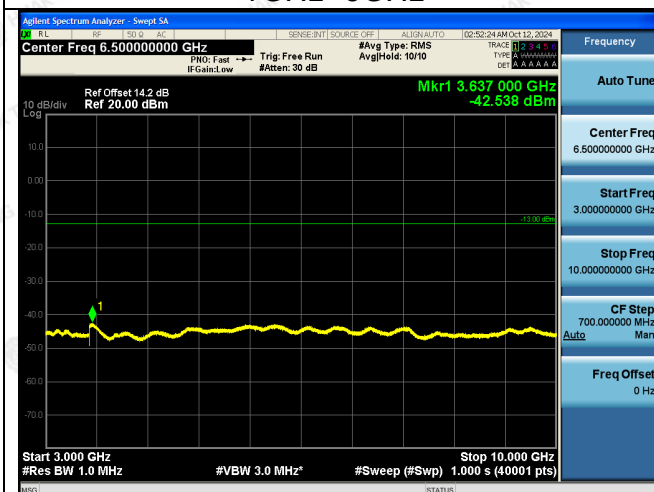
#### 30MHz~1GHz



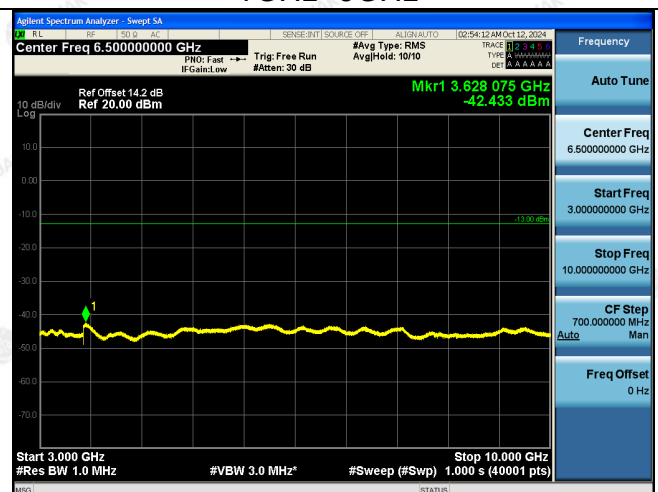
#### 30MHz~1GHz



#### 1GHz~3GHz



#### 1GHz~3GHz

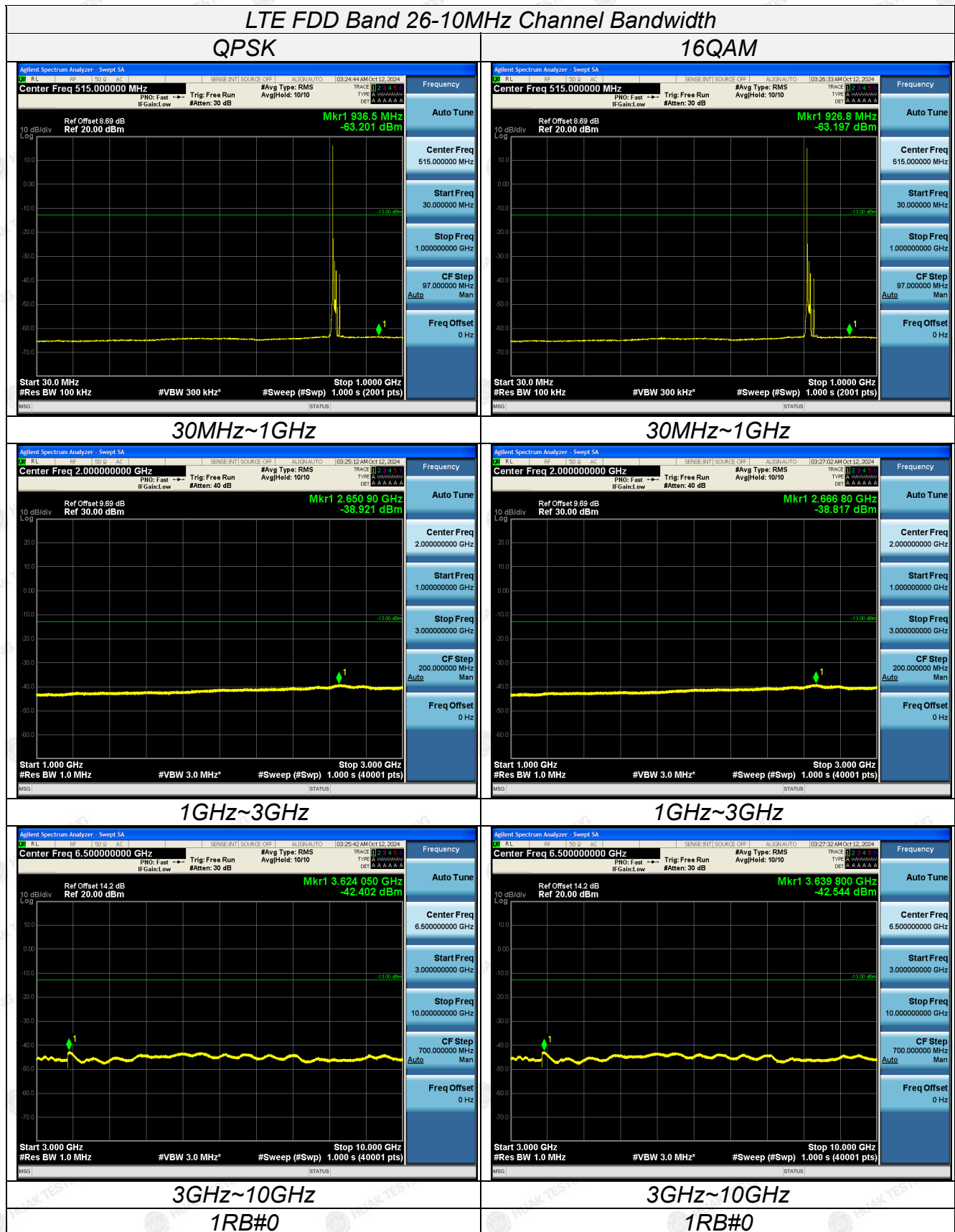


#### 3GHz~10GHz

#### 1RB#0

#### 3GHz~10GHz

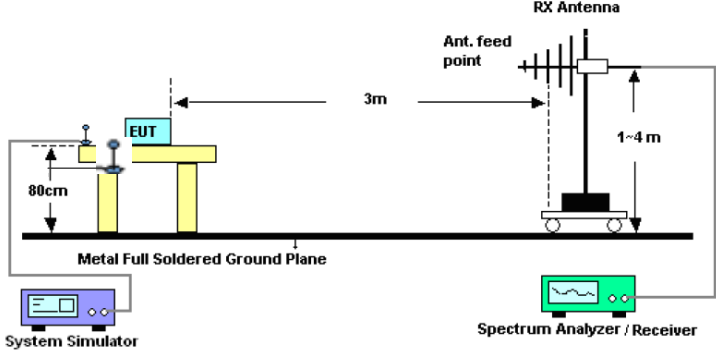
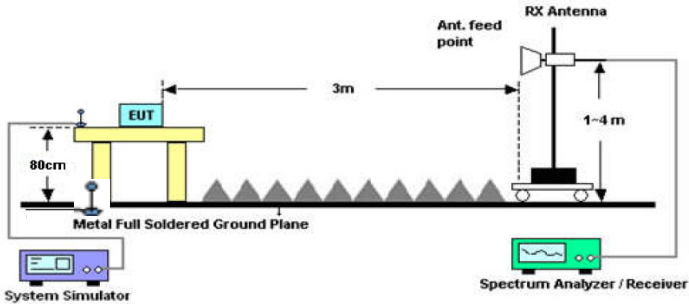
#### 1RB#0





## 5.6. Field Strength of Spurious Radiation Measurement

### 5.6.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC part90.691                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Test Method:</b>      | FCC part 2.1053                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Limit:</b>            | 30MHz~20GHz -13dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Test setup:</b>       | <p>From 30MHz to 1GHz</p>  <p>Above 1GHz</p>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"><li>1. The testing follows FCC KDB 971168 D01v03 Section 5.8 and ANSI / TIA-603-D-2010Section 2.2.12.</li><li>2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.</li><li>3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.</li><li>4. The table was rotated 360 degrees to determine the position of the highest spurious emission.</li><li>5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.</li></ol> |





|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.<br>7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.<br>8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.<br>9. Taking the record of output power at antenna port.<br>10. Repeat step 7 to step 8 for another polarization.<br>11. $EIRP(dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$<br>12. $ERP(dBm) = EIRP - 2.15$<br>13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. |
| <b>Test results:</b> | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Radiated Measurement:**

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 26.
2.  $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + G_a(dBi)$
3. We were not recorded other points as values lower than limits.
4.  $Margin = Limit - EIRP$

**LTE FDD Band 26\_Channel Bandwidth 1.4MHz\_QPSK\_Low Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|-----------------|-------------|-------------|--------------|
| 1629.4          | -35.41                 | 2.86                 | 3.00     | 7.25                            | -33.17          | -13.00      | 20.17       | H            |
| 2444.1          | -43.65                 | 2.94                 | 3.00     | 9.53                            | -39.21          | -13.00      | 26.21       | H            |
| 1629.4          | -43.88                 | 2.86                 | 3.00     | 7.25                            | -41.64          | -13.00      | 28.64       | V            |
| 2444.1          | -46.93                 | 2.94                 | 3.00     | 9.53                            | -42.49          | -13.00      | 29.49       | V            |

**LTE FDD Band 26\_Channel Bandwidth 1.4MHz\_QPSK\_Middle Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1638            | -35.82                 | 2.86                 | 3.00     | 7.25                            | -33.58     | -13.00      | 20.58       | H            |
| 2457            | -43.18                 | 2.94                 | 3.00     | 9.53                            | -38.74     | -13.00      | 25.74       | H            |
| 1638            | -43.85                 | 2.86                 | 3.00     | 7.25                            | -41.61     | -13.00      | 28.61       | V            |
| 2457            | -47.2                  | 2.94                 | 3.00     | 9.53                            | -42.76     | -13.00      | 29.76       | V            |

**LTE FDD Band 26\_Channel Bandwidth 1.4MHz\_QPSK\_High Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1646.6          | -45.31                 | 2.86                 | 3.00     | 7.82                            | -40.35     | -13.00      | 27.35       | H            |
| 2469.9          | -46.78                 | 2.94                 | 3.00     | 9.35                            | -40.37     | -13.00      | 27.37       | H            |
| 1646.6          | -45.71                 | 2.86                 | 3.00     | 7.82                            | -40.75     | -13.00      | 27.75       | V            |
| 2469.9          | -47.54                 | 2.94                 | 3.00     | 9.35                            | -41.13     | -13.00      | 28.13       | V            |

**LTE FDD Band 26\_Channel Bandwidth 3MHz\_QPSK\_Low Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|-----------------|-------------|-------------|--------------|
| 1631            | -47.35                 | 2.86                 | 3.00     | 7.25                            | -45.11          | -13.00      | 32.11       | H            |
| 2446.5          | -43.97                 | 2.94                 | 3.00     | 9.53                            | -39.53          | -13.00      | 26.53       | H            |
| 1631            | -45.8                  | 2.86                 | 3.00     | 7.25                            | -43.56          | -13.00      | 30.56       | V            |
| 2446.5          | -47.68                 | 2.94                 | 3.00     | 9.53                            | -43.24          | -13.00      | 30.24       | V            |

**LTE FDD Band 26\_Channel Bandwidth 3MHz\_QPSK\_Middle Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1638            | -45.44                 | 2.86                 | 3.00     | 7.25                            | -43.2      | -13.00      | 30.2        | H            |
| 2457            | -44.2                  | 2.94                 | 3.00     | 9.53                            | -39.76     | -13.00      | 26.76       | H            |
| 1638            | -47.26                 | 2.86                 | 3.00     | 7.25                            | -45.02     | -13.00      | 32.02       | V            |
| 2457            | -48.43                 | 2.94                 | 3.00     | 9.53                            | -43.99     | -13.00      | 30.99       | V            |

**LTE FDD Band 26\_Channel Bandwidth 3MHz\_QPSK\_High Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1645            | -45.71                 | 2.86                 | 3.00     | 7.82                            | -40.75     | -13.00      | 27.75       | H            |
| 2467.5          | -46.66                 | 2.94                 | 3.00     | 9.35                            | -40.25     | -13.00      | 27.25       | H            |
| 1645            | -45.11                 | 2.86                 | 3.00     | 7.82                            | -40.15     | -13.00      | 27.15       | V            |
| 2467.5          | -47.92                 | 2.94                 | 3.00     | 9.35                            | -41.51     | -13.00      | 28.51       | V            |

**LTE FDD Band 26\_Channel Bandwidth 5MHz\_QPSK\_Low Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|-----------------|-------------|-------------|--------------|
| 1633            | -44.93                 | 2.86                 | 3.00     | 7.25                            | -42.69          | -13.00      | 29.69       | H            |
| 2449.5          | -44.88                 | 2.94                 | 3.00     | 9.53                            | -40.44          | -13.00      | 27.44       | H            |
| 1633            | -45.4                  | 2.86                 | 3.00     | 7.25                            | -43.16          | -13.00      | 30.16       | V            |
| 2449.5          | -48.07                 | 2.94                 | 3.00     | 9.53                            | -43.63          | -13.00      | 30.63       | V            |

*LTE FDD Band 26\_Channel Bandwidth 5MHz\_QPSK\_Middle Channel*

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1638            | -46.25                 | 2.86                 | 3.00     | 7.25                            | -44.01     | -13.00      | 31.01       | H            |
| 2457            | -46.37                 | 2.94                 | 3.00     | 9.53                            | -41.93     | -13.00      | 28.93       | H            |
| 1638            | -45.27                 | 2.86                 | 3.00     | 7.25                            | -43.03     | -13.00      | 30.03       | V            |
| 2457            | -48.05                 | 2.94                 | 3.00     | 9.53                            | -43.61     | -13.00      | 30.61       | V            |

*LTE FDD Band 26\_Channel Bandwidth 5MHz\_QPSK\_High Channel*

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1643            | -47.08                 | 2.86                 | 3.00     | 7.82                            | -42.12     | -13.00      | 29.12       | H            |
| 2464.5          | -44.43                 | 2.94                 | 3.00     | 9.35                            | -38.02     | -13.00      | 25.02       | H            |
| 1643            | -46.12                 | 2.86                 | 3.00     | 7.82                            | -41.16     | -13.00      | 28.16       | V            |
| 2464.5          | -48.35                 | 2.94                 | 3.00     | 9.35                            | -41.94     | -13.00      | 28.94       | V            |

*LTE FDD Band 26\_Channel Bandwidth 10MHz\_QPSK*

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1638            | -45.13                 | 2.86                 | 3.00     | 7.25                            | -42.89     | -13.00      | 29.89       | H            |
| 2457            | -46.45                 | 2.94                 | 3.00     | 9.53                            | -42.01     | -13.00      | 29.01       | H            |
| 1638            | -45.78                 | 2.86                 | 3.00     | 7.25                            | -43.54     | -13.00      | 30.54       | V            |
| 2457            | -47.17                 | 2.94                 | 3.00     | 9.53                            | -42.73     | -13.00      | 29.73       | V            |



**LTE FDD Band 26\_Channel Bandwidth 1.4MHz\_16QAM\_Low Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|-----------------|-------------|-------------|--------------|
| 1629.4          | -45.68                 | 2.86                 | 3.00     | 7.25                            | -43.44          | -13.00      | 30.44       | H            |
| 2444.1          | -43.9                  | 2.94                 | 3.00     | 9.53                            | -39.46          | -13.00      | 26.46       | H            |
| 1629.4          | -45.19                 | 2.86                 | 3.00     | 7.25                            | -42.95          | -13.00      | 29.95       | V            |
| 2444.1          | -48.86                 | 2.94                 | 3.00     | 9.53                            | -44.42          | -13.00      | 31.42       | V            |

**LTE FDD Band 26\_Channel Bandwidth 1.4MHz\_16QAM\_Middle Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1638            | -46.47                 | 2.86                 | 3.00     | 7.25                            | -44.23     | -13.00      | 31.23       | H            |
| 2457            | -45.83                 | 2.94                 | 3.00     | 9.53                            | -41.39     | -13.00      | 28.39       | H            |
| 1638            | -46.65                 | 2.86                 | 3.00     | 7.25                            | -44.41     | -13.00      | 31.41       | V            |
| 2457            | -48.07                 | 2.94                 | 3.00     | 9.53                            | -43.63     | -13.00      | 30.63       | V            |

**LTE FDD Band 26\_Channel Bandwidth 1.4MHz\_16QAM\_High Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1646.6          | -44.26                 | 2.86                 | 3.00     | 7.82                            | -39.3      | -13.00      | 26.3        | H            |
| 2469.9          | -45.78                 | 2.94                 | 3.00     | 9.35                            | -39.37     | -13.00      | 26.37       | H            |
| 1646.6          | -45.26                 | 2.86                 | 3.00     | 7.82                            | -40.3      | -13.00      | 27.3        | V            |
| 2469.9          | -50.47                 | 2.94                 | 3.00     | 9.35                            | -44.06     | -13.00      | 31.06       | V            |

**LTE FDD Band 26\_Channel Bandwidth 3MHz\_16QAM\_Low Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|-----------------|-------------|-------------|--------------|
| 1631            | -46.51                 | 2.86                 | 3.00     | 7.25                            | -44.27          | -13.00      | 31.27       | H            |
| 2446.5          | -43.43                 | 2.94                 | 3.00     | 9.53                            | -38.99          | -13.00      | 25.99       | H            |
| 1631            | -47.38                 | 2.86                 | 3.00     | 7.25                            | -45.14          | -13.00      | 32.14       | V            |
| 2446.5          | -48.09                 | 2.94                 | 3.00     | 9.53                            | -43.65          | -13.00      | 30.65       | V            |

**LTE FDD Band 26\_Channel Bandwidth 3MHz\_16QAM\_Middle Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1638            | -46.24                 | 2.86                 | 3.00     | 7.25                            | -44        | -13.00      | 31          | H            |
| 2457            | -46.01                 | 2.94                 | 3.00     | 9.53                            | -41.57     | -13.00      | 28.57       | H            |
| 1638            | -46.18                 | 2.86                 | 3.00     | 7.25                            | -43.94     | -13.00      | 30.94       | V            |
| 2457            | -48.15                 | 2.94                 | 3.00     | 9.53                            | -43.71     | -13.00      | 30.71       | V            |



**LTE FDD Band 26\_Channel Bandwidth 3MHz\_16QAM\_High Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1645            | -44.31                 | 2.86                 | 3.00     | 7.82                            | -39.35     | -13.00      | 26.35       | H            |
| 2467.5          | -46.57                 | 2.94                 | 3.00     | 9.35                            | -40.16     | -13.00      | 27.16       | H            |
| 1645            | -44.75                 | 2.86                 | 3.00     | 7.82                            | -39.79     | -13.00      | 26.79       | V            |
| 2467.5          | -49.87                 | 2.94                 | 3.00     | 9.35                            | -43.46     | -13.00      | 30.46       | V            |

**LTE FDD Band 26\_Channel Bandwidth 5MHz\_16QAM\_Low Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|-----------------|-------------|-------------|--------------|
| 1633            | -45.46                 | 2.86                 | 3.00     | 7.25                            | -43.22          | -13.00      | 30.22       | H            |
| 2449.5          | -44.97                 | 2.94                 | 3.00     | 9.53                            | -40.53          | -13.00      | 27.53       | H            |
| 1633            | -46.19                 | 2.86                 | 3.00     | 7.25                            | -43.95          | -13.00      | 30.95       | V            |
| 2449.5          | -48.26                 | 2.94                 | 3.00     | 9.53                            | -43.82          | -13.00      | 30.82       | V            |

**LTE FDD Band 26\_Channel Bandwidth 5MHz\_16QAM\_Middle Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1638            | -45.72                 | 2.86                 | 3.00     | 7.25                            | -43.48     | -13.00      | 30.48       | H            |
| 2457            | -46.56                 | 2.94                 | 3.00     | 9.53                            | -42.12     | -13.00      | 29.12       | H            |
| 1638            | -44.61                 | 2.86                 | 3.00     | 7.25                            | -42.37     | -13.00      | 29.37       | V            |
| 2457            | -46.88                 | 2.94                 | 3.00     | 9.53                            | -42.44     | -13.00      | 29.44       | V            |

**LTE FDD Band 26\_Channel Bandwidth 5MHz\_16QAM\_High Channel**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1643            | -44.9                  | 2.86                 | 3.00     | 7.82                            | -39.94     | -13.00      | 26.94       | H            |
| 2464.5          | -44.85                 | 2.94                 | 3.00     | 9.35                            | -38.44     | -13.00      | 25.44       | H            |
| 1643            | -47.54                 | 2.86                 | 3.00     | 7.82                            | -42.58     | -13.00      | 29.58       | V            |
| 2464.5          | -49.16                 | 2.94                 | 3.00     | 9.35                            | -42.75     | -13.00      | 29.75       | V            |

**LTE FDD Band 26\_Channel Bandwidth 10MHz\_16QAM**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB) | Diatance | G <sub>a</sub> Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|------------------------|----------------------|----------|---------------------------------|------------|-------------|-------------|--------------|
| 1638            | -45.23                 | 2.86                 | 3.00     | 7.25                            | -42.99     | -13.00      | 29.99       | H            |
| 2457            | -44.89                 | 2.94                 | 3.00     | 9.53                            | -40.45     | -13.00      | 27.45       | H            |
| 1638            | -46.02                 | 2.86                 | 3.00     | 7.25                            | -43.78     | -13.00      | 30.78       | V            |
| 2457            | -49.07                 | 2.94                 | 3.00     | 9.53                            | -44.63     | -13.00      | 31.63       | V            |



## 5.7. Frequency Stability Measurement

### 5.7.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC part 90.213                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Test Method:</b>      | FCC Part 2.1055                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Limit:</b>            | ±2.5 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Test Setup:</b>       |  <p>The diagram shows a 'System Simulator' connected by a line to a 'Thermal Chamber'. Inside the thermal chamber is the 'EUT' (Equipment Under Test).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Test Procedure:</b>   | <p><b>Test Procedures for Temperature Variation</b></p> <ol style="list-style-type: none"><li>1. The testing follows FCC KDB 971168 D01v03 Section 9.0.</li><li>2. The EUT was set up in the thermal chamber and connected with the system simulator.</li><li>3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.</li><li>4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.</li></ol> <p><b>Test Procedures for Voltage Variation</b></p> <ol style="list-style-type: none"><li>1. The testing follows FCC KDB 971168 D01v03 Section 9.0.</li><li>2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.</li><li>3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.</li><li>4. The variation in frequency was measured for the worst case.</li></ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**TEST RESULTS**

*Remark:*

*1. We tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 26; recorded worst case.*

LTE Band 26, 1.4MHz bandwidth (worst case of all bandwidths)

**Frequency Error vs Voltage**

| Voltage<br>(V) | Frequency error (Hz) |       | Frequency error (ppm) |           | Limit<br>(ppm) |
|----------------|----------------------|-------|-----------------------|-----------|----------------|
|                | QPSK                 | 16QAM | QPSK                  | 16QAM     |                |
| 10.2           | -1.30                | -2.93 | -0.001596             | -0.003596 | 2.50           |
| 12             | -2.19                | -1.79 | -0.002688             | -0.002197 | 2.50           |
| 13.8           | -2.35                | -2.66 | -0.002884             | -0.003265 | 2.50           |

**Frequency Error vs Temperature**

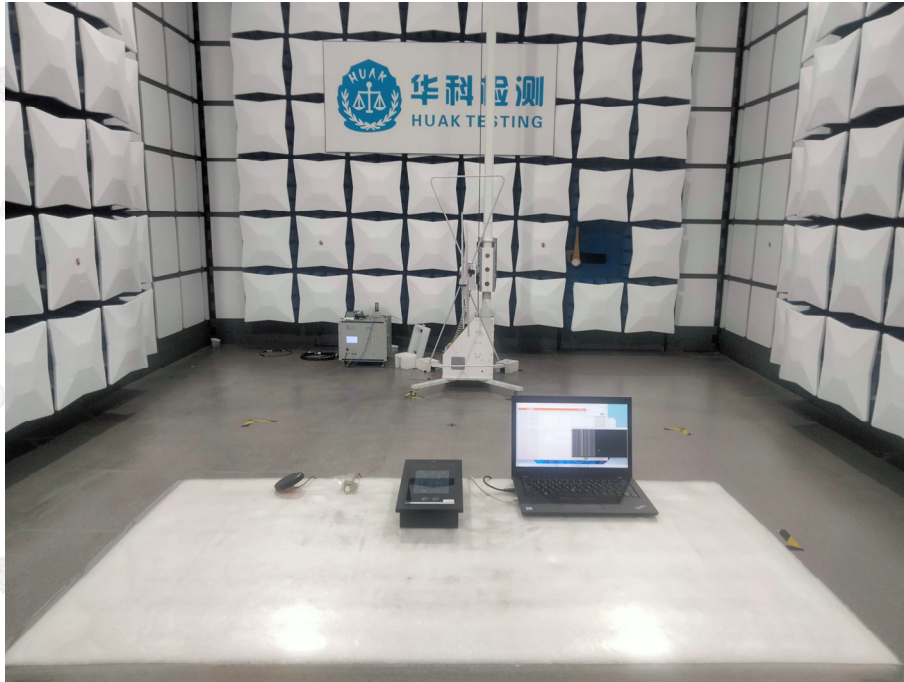
| Temperature<br>(°C) | Frequency error (Hz) |       | Frequency error (ppm) |           | Limit<br>(ppm) |
|---------------------|----------------------|-------|-----------------------|-----------|----------------|
|                     | QPSK                 | 16QAM | QPSK                  | 16QAM     |                |
| -30°                | -1.96                | -2.47 | -0.002406             | -0.003032 | 2.50           |
| -20°                | -2.50                | -5.06 | -0.003069             | -0.006211 | 2.50           |
| -10°                | -3.82                | -1.39 | -0.004689             | -0.001706 | 2.50           |
| 0°                  | -2.06                | -2.72 | -0.002529             | -0.003339 | 2.50           |
| 10°                 | 2.03                 | -2.17 | 0.002492              | -0.002664 | 2.50           |
| 20°                 | -2.40                | 1.85  | -0.002946             | 0.002271  | 2.50           |
| 30°                 | -3.38                | -3.88 | -0.004127             | -0.004737 | 2.50           |
| 40°                 | -2.65                | -3.50 | -0.003236             | -0.004274 | 2.50           |
| 50°                 | -2.85                | -2.19 | -0.003480             | -0.002674 | 2.50           |





## 6. Test Setup Photos of the EUT

### Radiated Emission







## 7. Photos of the EUT

Refer to test report ANNEX A of external photos and ANNEX B of internal photos

.....**End of Report**.....

