

## Partial FCC Test Report

### (PART 22)

**Report No.:** RFBASM-WTW-P21060063

**FCC ID:** QYLEM9190K

**Test Model:** EM9190

**Received Date:** Jun. 02, 2021

**Test Date:** Jun. 23 ~ Jun. 26, 2021

**Issued Date:** Nov. 16, 2021

**Applicant:** Getac Technology Corporation.

**Address:** 5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist., Taipei City  
11568, Taiwan, R.O.C.

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location:** B2F., No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan

**FCC Registration /** 427177 / TW0011

**Designation Number:**



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### Release Control Record

| Issue No.            | Description      | Date Issued   |
|----------------------|------------------|---------------|
| RFBASM-WTW-P21060063 | Original Release | Nov. 16, 2021 |

## 1 Certificate of Conformity

**Product:** Wireless Module

**Brand:** Getac

**Test Model:** EM9190

**Sample Status:** Identical Prototype

**Applicant:** Getac Technology Corporation.

**Test Date:** Jun. 23 ~ Jun. 26, 2021

**Standards:** FCC Part 22, Subpart H

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** Polly Chien , **Date:** Nov. 16, 2021  
Polly Chien / Specialist

**Approved by :** Bruce Chen , **Date:** Nov. 16, 2021  
Bruce Chen / Senior Engineer

## 2 Summary of Test Results

| Applied Standard: FCC Part 22 & Part 2 |                              |        |                                                                                       |
|----------------------------------------|------------------------------|--------|---------------------------------------------------------------------------------------|
| FCC Clause                             | Test Item                    | Result | Remarks                                                                               |
| 2.1046<br>22.913 (a)                   | Effective Radiated Power     | Pass   | Meet the requirement of limit.                                                        |
| 2.1047                                 | Modulation Characteristics   | N/A    | Refer to Note                                                                         |
| 2.1046<br>22.913 (d)                   | Peak to Average Ratio        | N/A    | Refer to Note                                                                         |
| 2.1055<br>22.355                       | Frequency Stability          | N/A    | Refer to Note                                                                         |
| 2.1049                                 | Occupied Bandwidth           | N/A    | Refer to Note                                                                         |
| 22.917                                 | Band Edge Measurements       | N/A    | Refer to Note                                                                         |
| 2.1051<br>22.917                       | Conducted Spurious Emissions | N/A    | Refer to Note                                                                         |
| 2.1053<br>22.917                       | Radiated Spurious Emissions  | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -35.97 dB at 2509.50 MHz. |

Note:

1. This report is a Class II change partial report. Therefore, only test item of Radiated Spurious Emissions tests and Effective Radiated Power were performed for this report. Other testing data please refer to Sporton International (Shenzhen) Inc. report no.: FG021501A\_Rev. 02 and FG021501B\_Rev. 02 for module (Brand: Airprime, Model: EM9190).
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                    | Frequency          | Expanded Uncertainty (k=2) (±) |
|--------------------------------|--------------------|--------------------------------|
| Radiated Emissions up to 1 GHz | 9 kHz ~ 30 MHz     | 3.0400 dB                      |
|                                | 30 MHz ~ 200 MHz   | 2.0153 dB                      |
|                                | 200 MHz ~ 1000 MHz | 2.0224 dB                      |
| Radiated Emissions above 1 GHz | 1GHz ~ 18GHz       | 1.0121 dB                      |
|                                | 18GHz ~ 40GHz      | 1.1508 dB                      |

## 2.2 Test Site and Instruments

| Description & Manufacturer                     | Model No.       | Serial No.                                                        | Date of Calibration | Due Date of Calibration |
|------------------------------------------------|-----------------|-------------------------------------------------------------------|---------------------|-------------------------|
| Test Receiver<br>Agilent Technologies          | N9038A          | MY52260177                                                        | Aug. 24, 2020       | Aug. 23, 2021           |
| Spectrum Analyzer<br>ROHDE & SCHWARZ           | FSU43           | 101261                                                            | Apr. 12, 2021       | Apr. 11, 2022           |
| HORN Antenna<br>ETS-Lindgren                   | 3117            | 00143293                                                          | Nov. 22, 2020       | Nov. 21, 2021           |
| BILOG Antenna<br>SCHWARZBECK                   | VULB 9168       | 9168-616                                                          | Nov. 09, 2020       | Nov. 08, 2021           |
| HORN Antenna<br>SCHWARZBECK                    | BBHA 9170       | 9170-480                                                          | Nov. 22, 2020       | Nov. 21, 2021           |
| Fixed Attenuator<br>Mini-Circuits              | MDCS18N-10      | MDCS18N-10-01                                                     | Apr. 13, 2021       | Apr. 12, 2022           |
| MXG Vector signal<br>generator<br>Agilent      | N5182B          | MY53050430                                                        | Nov. 25, 2020       | Nov. 24, 2021           |
| Preamplifier<br>Agilent                        | 310N            | 187226                                                            | Jun. 17, 2021       | Jun. 16, 2022           |
| Preamplifier<br>Agilent                        | 83017A          | MY39501357                                                        | Jun. 17, 2021       | Jun. 16, 2022           |
| RF signal cable<br>ETS-LINDGREN                | 5D-FB           | Cable-CH1-01(RFC<br>-SMS-100-SMS-12<br>0+RFC-SMS-100-S<br>MS-400) | Jun. 17, 2021       | Jun. 16, 2022           |
| RF signal cable<br>ETS-LINDGREN                | 8D-FB           | Cable-CH1-02(RFC<br>-SMS-100-SMS-24)                              | Jun. 17, 2021       | Jun. 16, 2022           |
| Boresight Antenna Fixture                      | FBA-01          | FBA-SIP01                                                         | NA                  | NA                      |
| Software<br>BV ADT                             | E3<br>8.130425b | NA                                                                | NA                  | NA                      |
| Antenna Tower<br>MF                            | NA              | NA                                                                | NA                  | NA                      |
| Turn Table<br>MF                               | NA              | NA                                                                | NA                  | NA                      |
| Antenna Tower & Turn<br>Table Controller<br>MF | MF-7802         | NA                                                                | NA                  | NA                      |
| Radio Communication<br>Analyzer<br>Anritsu     | MT8820C         | 6201300640                                                        | Aug. 19, 2019       | Aug. 18, 2021           |
| Spectrum Analyzer<br>ROHDE & SCHWARZ           | FSW43           | 101582                                                            | Apr. 01, 2021       | Mar. 31, 2022           |

Note: 1. The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HsinTien Chamber 1.

### 3 General Information

#### 3.1 General Description of EUT

|                            |                                     |                            |
|----------------------------|-------------------------------------|----------------------------|
| <b>Product</b>             | Wireless Module                     |                            |
| <b>Brand</b>               | Getac                               |                            |
| <b>Test Model</b>          | EM9190                              |                            |
| <b>Status of EUT</b>       | Identical Prototype                 |                            |
| <b>Power Supply Rating</b> | 3.3 Vdc (Host equipment)            |                            |
| <b>Modulation Type</b>     | WCDMA                               | QPSK                       |
|                            | LTE                                 | QPSK, 16QAM, 64QAM, 256QAM |
| <b>Frequency Range</b>     | WCDMA                               | 826.4 ~ 846.6 MHz          |
|                            | LTE 5 (Channel Bandwidth: 1.4 MHz)  | 824.7 ~ 848.3 MHz          |
|                            | LTE 5 (Channel Bandwidth: 3 MHz)    | 825.5 ~ 847.5 MHz          |
|                            | LTE 5 (Channel Bandwidth: 5 MHz)    | 826.5 ~ 846.5 MHz          |
|                            | LTE 5 (Channel Bandwidth: 10 MHz)   | 829 ~ 844 MHz              |
|                            | LTE 26 (Channel Bandwidth: 1.4 MHz) | 824.7 ~ 848.3 MHz          |
|                            | LTE 26 (Channel Bandwidth: 3 MHz)   | 825.5 ~ 847.5 MHz          |
|                            | LTE 26 (Channel Bandwidth: 5 MHz)   | 826.5 ~ 846.5 MHz          |
|                            | LTE 26 (Channel Bandwidth: 10 MHz)  | 829 ~ 844 MHz              |
|                            | LTE 26 (Channel Bandwidth: 15 MHz)  | 831.5 ~ 841.5 MHz          |
| <b>Max. ERP Power</b>      | WCDMA                               | 159.22 mW                  |
|                            | LTE 5 (Channel Bandwidth: 1.4 MHz)  | 163.76 mW                  |
|                            | LTE 5 (Channel Bandwidth: 3 MHz)    | 165.27 mW                  |
|                            | LTE 5 (Channel Bandwidth: 5 MHz)    | 166.80 mW                  |
|                            | LTE 5 (Channel Bandwidth: 10 MHz)   | 167.96 mW                  |
|                            | LTE 26 (Channel Bandwidth: 1.4 MHz) | 148.18 mW                  |
|                            | LTE 26 (Channel Bandwidth: 3 MHz)   | 149.21 mW                  |
|                            | LTE 26 (Channel Bandwidth: 5 MHz)   | 150.24 mW                  |
|                            | LTE 26 (Channel Bandwidth: 10 MHz)  | 151.64 mW                  |
|                            | LTE 26 (Channel Bandwidth: 15 MHz)  | 153.04 mW                  |
| <b>Antenna Type</b>        | Refer to Note as below              |                            |
| <b>Accessory Device</b>    | N/A                                 |                            |
| <b>Data Cable Supplied</b> | N/A                                 |                            |

Note:

1. The EUT is authorized for use in specific End-product. The model of the K120 was chosen for final test.

| Product | Brand | Model                                                                           | Description           |
|---------|-------|---------------------------------------------------------------------------------|-----------------------|
| Tablet  | Getac | K120                                                                            | For marketing purpose |
|         |       | K120G2                                                                          |                       |
|         |       | K120Y (Y= 10 , Y can be 0-9, a-z, A-Z, "-", "_" or blank for marketing purpose) |                       |

2. The antenna information is listed as below.

| Antenna Type | Brand | Model        | Antenna Gain (dBi) |        |         |
|--------------|-------|--------------|--------------------|--------|---------|
|              |       |              | WCDMA V            | LTE B5 | LTE B26 |
| PIFA         | Getac | K120 Main 5G | 1.60               | 1.60   | 1.60    |
|              | Getac | K120 Aux 5G  | 0.63               | 0.63   | 0.63    |

\* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3. The End-product contains following accessory devices.

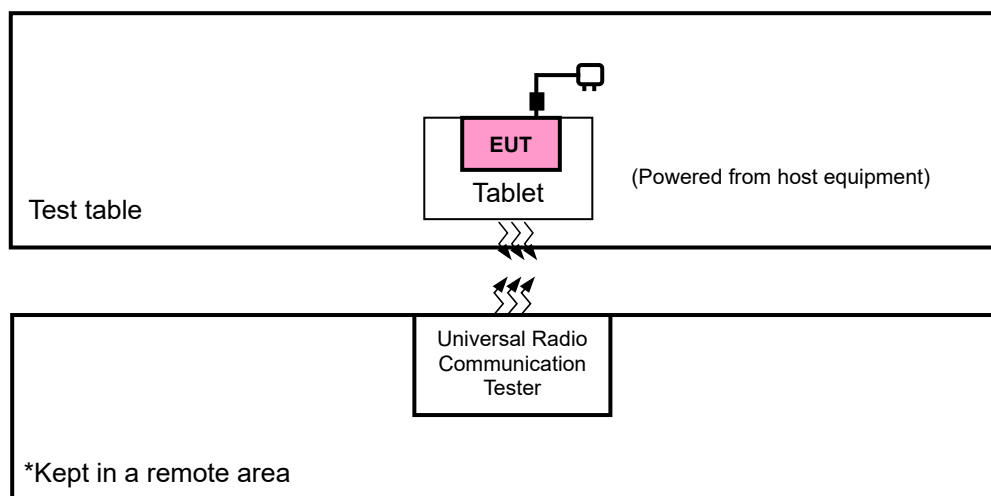
| Part      | Brand   | Model              | Specification                                                 |
|-----------|---------|--------------------|---------------------------------------------------------------|
| Adapter 1 | Getac   | MTA190474W4        | I/P: 100-240Vac, 1.6A, 50-60Hz<br>O/P: 19.0Vdc, 4.74A (90.0W) |
| Adapter 2 | Chicony | A15-090P1A         | I/P: 100-240Vac, 1.2A, 50-60Hz<br>O/P: 19.0Vdc, 4.74A (90.0W) |
| Battery 1 | Getac   | BP3S1P2100S-01     | 11.1Vdc , 2040mAh, 24Wh                                       |
| Battery 2 | Getac   | BP4S1P3450P-01     | 14.4Vdc , 3300mAh, 48Wh                                       |
| Touch Pen | Getac   | 340142000064       | -                                                             |
| Dock      | Getac   | K120 Keyboard Dock | -                                                             |

4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

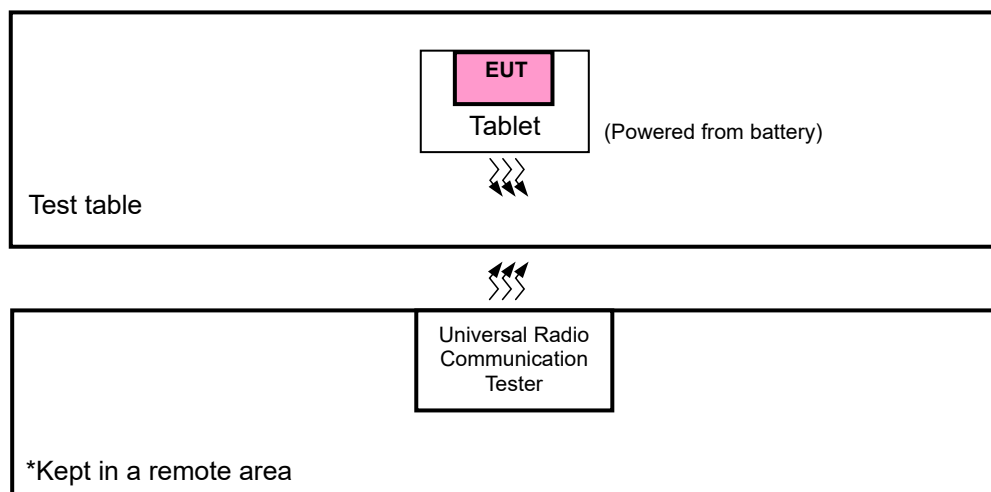


### 3.2 Configuration of System under Test

#### <Radiated Emission Test>



#### <E.R.P. Test>



#### 3.2.1 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.

| No. | Product                              | Brand   | Model No. | Serial No. | FCC ID |
|-----|--------------------------------------|---------|-----------|------------|--------|
| 1.  | Tablet                               | Getac   | K120      | N/A        | N/A    |
| 2.  | Universal Radio Communication Tester | Anritsu | MT8820C   | 6201300640 | N/A    |

| No. | Signal Cable Description Of The Above Support Units |
|-----|-----------------------------------------------------|
| 1.  | N/A                                                 |

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item 1 was provided by client.

### 3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, and antenna ports.

The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

| Band        | ERP     | Radiated Emission |
|-------------|---------|-------------------|
| WCDMA       | X-plane | X-axis            |
| LTE Band 5  | X-plane | X-axis            |
| LTE Band 26 | Z-plane | Z-axis            |

#### WCDMA

| EUT Configure Mode | Test Item         | Available Channel | Tested Channel   | Mode  |
|--------------------|-------------------|-------------------|------------------|-------|
| -                  | ERP               | 4132 to 4233      | 4132, 4182, 4233 | WCDMA |
| -                  | Radiated Emission | 4132 to 4233      | 4132, 4182, 4233 | WCDMA |

#### LTE Band 5

| EUT Configure Mode | Test Item         | Available Channel | Tested Channel      | Channel Bandwidth | Modulation                    | Mode               |
|--------------------|-------------------|-------------------|---------------------|-------------------|-------------------------------|--------------------|
| -                  | ERP               | 20407 to 20643    | 20407, 20525, 20643 | 1.4 MHz           | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset |
|                    |                   | 20415 to 20635    | 20415, 20525, 20635 | 3 MHz             | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset |
|                    |                   | 20425 to 20625    | 20425, 20525, 20625 | 5 MHz             | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset |
|                    |                   | 20450 to 20600    | 20450, 20525, 20600 | 10 MHz            | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset |
| -                  | Radiated Emission | 20407 to 20643    | 20407, 20525, 20643 | 1.4 MHz           | QPSK                          | 1 RB / 0 RB Offset |
|                    |                   | 20425 to 20625    | 20425, 20525, 20625 | 5 MHz             | QPSK                          | 1 RB / 0 RB Offset |
|                    |                   | 20450 to 20600    | 20450, 20525, 20600 | 10 MHz            | QPSK                          | 1 RB / 0 RB Offset |

#### Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.

## LTE Band 26

| EUT Configure Mode | Test Item         | Available Channel | Tested Channel      | Channel Bandwidth | Modulation                    | Mode               |
|--------------------|-------------------|-------------------|---------------------|-------------------|-------------------------------|--------------------|
| -                  | ERP               | 26797 to 27033    | 26797, 26915, 27033 | 1.4 MHz           | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset |
|                    |                   | 26805 to 27025    | 26805, 26915, 27025 | 3 MHz             | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset |
|                    |                   | 26815 to 27015    | 26815, 26915, 27015 | 5 MHz             | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset |
|                    |                   | 26840 to 26990    | 26840, 26915, 26990 | 10 MHz            | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset |
|                    |                   | 26865 to 26965    | 26865, 26915, 26965 | 15 MHz            | QPSK / 16QAM / 64QAM / 256QAM | 1 RB / 0 RB Offset |
| -                  | Radiated Emission | 26797 to 27033    | 26797, 26915, 27033 | 1.4 MHz           | QPSK                          | 1 RB / 0 RB Offset |
|                    |                   | 26815 to 27015    | 26815, 26915, 27015 | 5 MHz             | QPSK                          | 1 RB / 0 RB Offset |
|                    |                   | 26865 to 26965    | 26865, 26915, 26965 | 15 MHz            | QPSK                          | 1 RB / 0 RB Offset |

### Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.

### Test Condition:

| Test Item         | Environmental Conditions | Input Power    | Tested By |
|-------------------|--------------------------|----------------|-----------|
| ERP               | 25 deg. C, 59 % RH       | 3.3 Vdc        | Karl Lee  |
| Radiated Emission | 25 deg. C, 59 % RH       | 120 Vac, 60 Hz | Karl Lee  |

### **3.4 EUT Operating Conditions**

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

### **3.5 General Description of Applied Standards and references**

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

**Test Standard:**

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 22**

**ANSI 63.26-2015**

**Note:** All test items have been performed and recorded as per the above standards.

**References Test Guidance:**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**

**ANSI/TIA/EIA-603-E 2016**

**Note:** All test items have been performed as a reference to the above KDB test guidance.

## 4 Test Types and Results

### 4.1 Output Power Measurement

#### 4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 7 watts e.r.p.

#### 4.1.2 Test Procedures

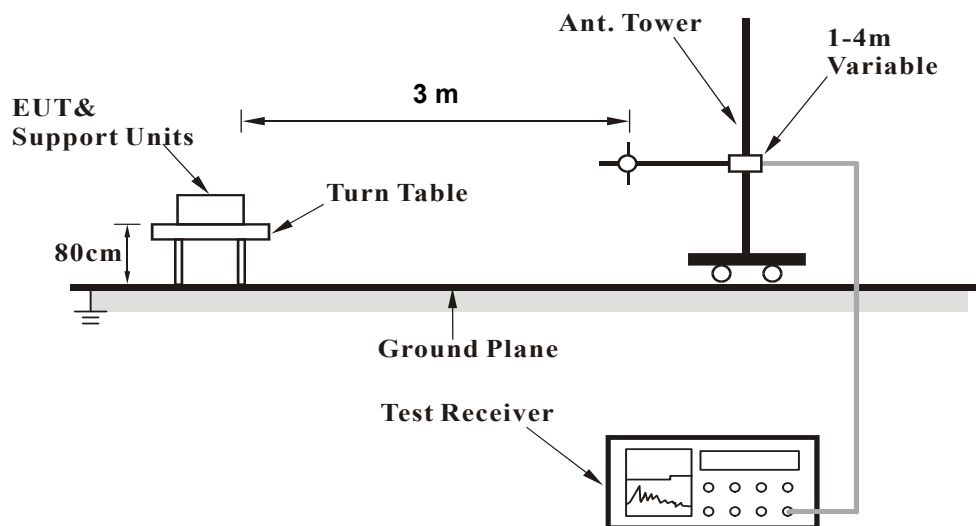
##### **EIRP / ERP Measurement:**

- a. All measurements were done at low, middle and high operational frequency range. RBW is 5 MHz for WCDMA and, 1.4 MHz · 3 MHz · 5 MHz · 10 MHz · 15 MHz for LTE mode, VBW  $\geq 3 \times$  RBW. When the RBW setting value exceeds the maximum value set by the Spectrum instrument, the measurement method refers to ANSI C63.26 section 5.2.4.4.
- b. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c.  $EIRP = \text{Output power level} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ . E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$ .  
Correction Factor (includes EIRP and ERP unit conversion factor) = Antenna gain of substitution horn. – Tx cable loss. Measurement method refers to ANSI C63.26 section 5.2.7 & 5.2.4.

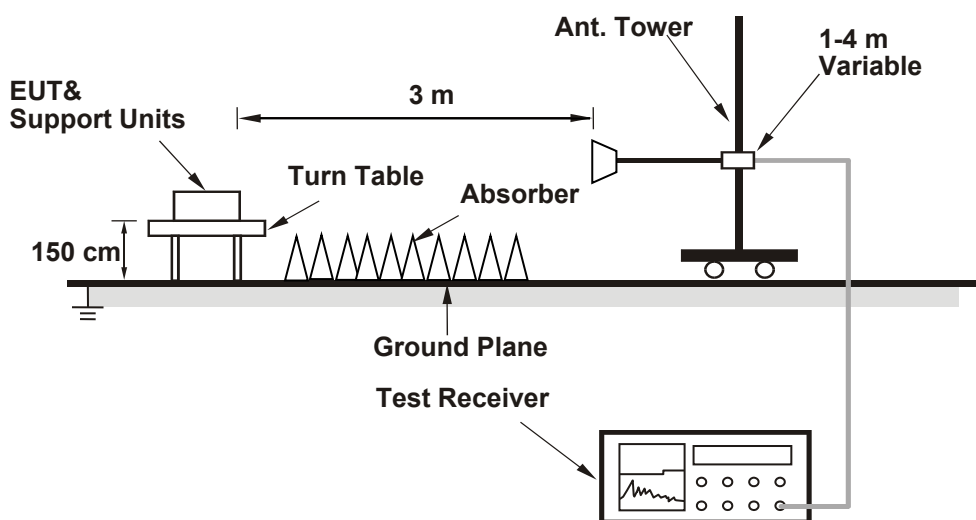
#### 4.1.3 Test Setup

##### EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.4 Test Results

##### ERP Power (dBm)

| WCDMA |         |                 |               |                        |           |          |                    |
|-------|---------|-----------------|---------------|------------------------|-----------|----------|--------------------|
| Plane | Channel | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | ERP (dBm) | ERP (mW) | Polarization (H/V) |
| X     | 4132    | 826.4           | -7.12         | 29.06                  | 21.94     | 156.24   | H                  |
|       | 4182    | 836.4           | -7.13         | 29.15                  | 22.02     | 159.22   |                    |
|       | 4233    | 846.6           | -7.92         | 29.07                  | 21.15     | 130.38   |                    |
|       | 4132    | 826.4           | -13.21        | 29.35                  | 16.14     | 41.15    | V                  |
|       | 4182    | 836.4           | -12.69        | 28.97                  | 16.28     | 42.43    |                    |
|       | 4233    | 846.6           | -13.45        | 29.77                  | 16.32     | 42.87    |                    |

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 5                          |         |                 |               |                        |           |          |                    |
|-------------------------------------|---------|-----------------|---------------|------------------------|-----------|----------|--------------------|
| Channel Bandwidth: 1.4 MHz / QPSK   |         |                 |               |                        |           |          |                    |
| Plane                               | Channel | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | ERP (dBm) | ERP (mW) | Polarization (H/V) |
| X                                   | 20407   | 824.7           | -7.10         | 29.06                  | 21.96     | 156.96   | H                  |
|                                     | 20525   | 836.5           | -7.16         | 29.15                  | 21.99     | 158.12   |                    |
|                                     | 20643   | 848.3           | -6.93         | 29.07                  | 22.14     | 163.76   |                    |
|                                     | 20407   | 824.7           | -13.04        | 29.35                  | 16.31     | 42.80    | V                  |
|                                     | 20525   | 836.5           | -12.53        | 28.97                  | 16.44     | 44.03    |                    |
|                                     | 20643   | 848.3           | -13.23        | 29.77                  | 16.54     | 45.10    |                    |
| Channel Bandwidth: 1.4 MHz / 16QAM  |         |                 |               |                        |           |          |                    |
| X                                   | 20407   | 824.7           | -8.10         | 29.06                  | 20.96     | 124.68   | H                  |
|                                     | 20525   | 836.5           | -8.17         | 29.15                  | 20.98     | 125.31   |                    |
|                                     | 20643   | 848.3           | -7.94         | 29.07                  | 21.13     | 129.78   |                    |
|                                     | 20407   | 824.7           | -14.04        | 29.35                  | 15.31     | 33.99    | V                  |
|                                     | 20525   | 836.5           | -13.53        | 28.97                  | 15.44     | 34.97    |                    |
|                                     | 20643   | 848.3           | -14.24        | 29.77                  | 15.53     | 35.74    |                    |
| Channel Bandwidth: 1.4 MHz / 64QAM  |         |                 |               |                        |           |          |                    |
| X                                   | 20407   | 824.7           | -9.10         | 29.06                  | 19.96     | 99.04    | H                  |
|                                     | 20525   | 836.5           | -9.18         | 29.15                  | 19.97     | 99.31    |                    |
|                                     | 20643   | 848.3           | -8.95         | 29.07                  | 20.12     | 102.85   |                    |
|                                     | 20407   | 824.7           | -15.04        | 29.35                  | 14.31     | 27.00    | V                  |
|                                     | 20525   | 836.5           | -14.53        | 28.97                  | 14.44     | 27.78    |                    |
|                                     | 20643   | 848.3           | -15.25        | 29.77                  | 14.52     | 28.33    |                    |
| Channel Bandwidth: 1.4 MHz / 256QAM |         |                 |               |                        |           |          |                    |
| X                                   | 20407   | 824.7           | -12.10        | 29.06                  | 16.96     | 49.64    | H                  |
|                                     | 20525   | 836.5           | -12.19        | 29.15                  | 16.96     | 49.66    |                    |
|                                     | 20643   | 848.3           | -11.94        | 29.07                  | 17.13     | 51.67    |                    |
|                                     | 20407   | 824.7           | -18.04        | 29.35                  | 11.31     | 13.53    | V                  |
|                                     | 20525   | 836.5           | -17.53        | 28.97                  | 11.44     | 13.92    |                    |
|                                     | 20643   | 848.3           | -18.25        | 29.77                  | 11.52     | 14.20    |                    |

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB)



| LTE Band 5                        |         |                 |               |                        |           |          |                    |
|-----------------------------------|---------|-----------------|---------------|------------------------|-----------|----------|--------------------|
| Channel Bandwidth: 3 MHz / QPSK   |         |                 |               |                        |           |          |                    |
| Plane                             | Channel | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | ERP (dBm) | ERP (mW) | Polarization (H/V) |
| X                                 | 20415   | 825.5           | -7.07         | 29.06                  | 21.99     | 158.05   | H                  |
|                                   | 20525   | 836.5           | -7.12         | 29.15                  | 22.03     | 159.59   |                    |
|                                   | 20635   | 847.5           | -6.89         | 29.07                  | 22.18     | 165.27   |                    |
|                                   | 20415   | 825.5           | -13.00        | 29.35                  | 16.35     | 43.19    | V                  |
|                                   | 20525   | 836.5           | -12.49        | 28.97                  | 16.48     | 44.43    |                    |
|                                   | 20635   | 847.5           | -13.20        | 29.77                  | 16.57     | 45.42    |                    |
| Channel Bandwidth: 3 MHz / 16QAM  |         |                 |               |                        |           |          |                    |
| X                                 | 20415   | 825.5           | -8.07         | 29.06                  | 20.99     | 125.55   | H                  |
|                                   | 20525   | 836.5           | -8.12         | 29.15                  | 21.03     | 126.77   |                    |
|                                   | 20635   | 847.5           | -7.89         | 29.07                  | 21.18     | 131.28   |                    |
|                                   | 20415   | 825.5           | -14.01        | 29.35                  | 15.34     | 34.23    | V                  |
|                                   | 20525   | 836.5           | -13.49        | 28.97                  | 15.48     | 35.29    |                    |
|                                   | 20635   | 847.5           | -14.20        | 29.77                  | 15.57     | 36.07    |                    |
| Channel Bandwidth: 3 MHz / 64QAM  |         |                 |               |                        |           |          |                    |
| X                                 | 20415   | 825.5           | -9.08         | 29.06                  | 19.98     | 99.49    | H                  |
|                                   | 20525   | 836.5           | -9.12         | 29.15                  | 20.03     | 100.69   |                    |
|                                   | 20635   | 847.5           | -8.90         | 29.07                  | 20.17     | 104.04   |                    |
|                                   | 20415   | 825.5           | -15.01        | 29.35                  | 14.34     | 27.19    | V                  |
|                                   | 20525   | 836.5           | -14.49        | 28.97                  | 14.48     | 28.03    |                    |
|                                   | 20635   | 847.5           | -15.21        | 29.77                  | 14.56     | 28.59    |                    |
| Channel Bandwidth: 3 MHz / 256QAM |         |                 |               |                        |           |          |                    |
| X                                 | 20415   | 825.5           | -12.08        | 29.06                  | 16.98     | 49.87    | H                  |
|                                   | 20525   | 836.5           | -12.13        | 29.15                  | 17.02     | 50.35    |                    |
|                                   | 20635   | 847.5           | -11.90        | 29.07                  | 17.17     | 52.14    |                    |
|                                   | 20415   | 825.5           | -18.02        | 29.35                  | 11.33     | 13.60    | V                  |
|                                   | 20525   | 836.5           | -17.50        | 28.97                  | 11.47     | 14.02    |                    |
|                                   | 20635   | 847.5           | -18.21        | 29.77                  | 11.56     | 14.33    |                    |

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 5                        |         |                 |               |                        |           |          |                    |
|-----------------------------------|---------|-----------------|---------------|------------------------|-----------|----------|--------------------|
| Channel Bandwidth: 5 MHz / QPSK   |         |                 |               |                        |           |          |                    |
| Plane                             | Channel | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | ERP (dBm) | ERP (mW) | Polarization (H/V) |
| X                                 | 20425   | 826.5           | -7.04         | 29.06                  | 22.02     | 159.15   | H                  |
|                                   | 20525   | 836.5           | -7.08         | 29.15                  | 22.07     | 161.06   |                    |
|                                   | 20625   | 846.5           | -6.85         | 29.07                  | 22.22     | 166.80   |                    |
|                                   | 20425   | 826.5           | -12.96        | 29.35                  | 16.39     | 43.59    | V                  |
|                                   | 20525   | 836.5           | -12.46        | 28.97                  | 16.51     | 44.74    |                    |
|                                   | 20625   | 846.5           | -13.16        | 29.77                  | 16.61     | 45.84    |                    |
| Channel Bandwidth: 5 MHz / 16QAM  |         |                 |               |                        |           |          |                    |
| X                                 | 20425   | 826.5           | -8.04         | 29.06                  | 21.02     | 126.42   | H                  |
|                                   | 20525   | 836.5           | -8.09         | 29.15                  | 21.06     | 127.64   |                    |
|                                   | 20625   | 846.5           | -7.85         | 29.07                  | 21.22     | 132.50   |                    |
|                                   | 20425   | 826.5           | -13.96        | 29.35                  | 15.39     | 34.63    | V                  |
|                                   | 20525   | 836.5           | -13.47        | 28.97                  | 15.50     | 35.46    |                    |
|                                   | 20625   | 846.5           | -14.16        | 29.77                  | 15.61     | 36.41    |                    |
| Channel Bandwidth: 5 MHz / 64QAM  |         |                 |               |                        |           |          |                    |
| X                                 | 20425   | 826.5           | -9.04         | 29.06                  | 20.02     | 100.42   | H                  |
|                                   | 20525   | 836.5           | -9.09         | 29.15                  | 20.06     | 101.39   |                    |
|                                   | 20625   | 846.5           | -8.85         | 29.07                  | 20.22     | 105.24   |                    |
|                                   | 20425   | 826.5           | -14.96        | 29.35                  | 14.39     | 27.50    | V                  |
|                                   | 20525   | 836.5           | -14.47        | 28.97                  | 14.50     | 28.16    |                    |
|                                   | 20625   | 846.5           | -15.17        | 29.77                  | 14.60     | 28.85    |                    |
| Channel Bandwidth: 5 MHz / 256QAM |         |                 |               |                        |           |          |                    |
| X                                 | 20425   | 826.5           | -12.04        | 29.06                  | 17.02     | 50.33    | H                  |
|                                   | 20525   | 836.5           | -12.10        | 29.15                  | 17.05     | 50.70    |                    |
|                                   | 20625   | 846.5           | -11.84        | 29.07                  | 17.23     | 52.87    |                    |
|                                   | 20425   | 826.5           | -17.94        | 29.35                  | 11.41     | 13.85    | V                  |
|                                   | 20525   | 836.5           | -17.47        | 28.97                  | 11.50     | 14.12    |                    |
|                                   | 20625   | 846.5           | -18.18        | 29.77                  | 11.59     | 14.43    |                    |

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 5                         |         |                 |               |                        |           |          |                    |
|------------------------------------|---------|-----------------|---------------|------------------------|-----------|----------|--------------------|
| Channel Bandwidth: 10 MHz / QPSK   |         |                 |               |                        |           |          |                    |
| Plane                              | Channel | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | ERP (dBm) | ERP (mW) | Polarization (H/V) |
| X                                  | 20450   | 829             | -7.01         | 29.06                  | 22.05     | 160.25   | H                  |
|                                    | 20525   | 836.5           | -7.03         | 29.15                  | 22.12     | 162.93   |                    |
|                                    | 20600   | 844             | -6.82         | 29.07                  | 22.25     | 167.96   |                    |
|                                    | 20450   | 829             | -12.93        | 29.35                  | 16.42     | 43.89    | V                  |
|                                    | 20525   | 836.5           | -12.42        | 28.97                  | 16.55     | 45.15    |                    |
|                                    | 20600   | 844             | -13.12        | 29.77                  | 16.65     | 46.26    |                    |
| Channel Bandwidth: 10 MHz / 16QAM  |         |                 |               |                        |           |          |                    |
| X                                  | 20450   | 829             | -8.01         | 29.06                  | 21.05     | 127.29   | H                  |
|                                    | 20525   | 836.5           | -8.03         | 29.15                  | 21.12     | 129.42   |                    |
|                                    | 20600   | 844             | -7.83         | 29.07                  | 21.24     | 133.11   |                    |
|                                    | 20450   | 829             | -13.93        | 29.35                  | 15.42     | 34.87    | V                  |
|                                    | 20525   | 836.5           | -13.42        | 28.97                  | 15.55     | 35.87    |                    |
|                                    | 20600   | 844             | -14.13        | 29.77                  | 15.64     | 36.66    |                    |
| Channel Bandwidth: 10 MHz / 64QAM  |         |                 |               |                        |           |          |                    |
| X                                  | 20450   | 829             | -9.01         | 29.06                  | 20.05     | 101.11   | H                  |
|                                    | 20525   | 836.5           | -9.03         | 29.15                  | 20.12     | 102.80   |                    |
|                                    | 20600   | 844             | -8.84         | 29.07                  | 20.23     | 105.49   |                    |
|                                    | 20450   | 829             | -14.93        | 29.35                  | 14.42     | 27.69    | V                  |
|                                    | 20525   | 836.5           | -14.42        | 28.97                  | 14.55     | 28.49    |                    |
|                                    | 20600   | 844             | -15.14        | 29.77                  | 14.63     | 29.05    |                    |
| Channel Bandwidth: 10 MHz / 256QAM |         |                 |               |                        |           |          |                    |
| X                                  | 20450   | 829             | -12.02        | 29.06                  | 17.04     | 50.56    | H                  |
|                                    | 20525   | 836.5           | -12.02        | 29.15                  | 17.13     | 51.64    |                    |
|                                    | 20600   | 844             | -11.84        | 29.07                  | 17.23     | 52.87    |                    |
|                                    | 20450   | 829             | -17.93        | 29.35                  | 11.42     | 13.88    | V                  |
|                                    | 20525   | 836.5           | -17.42        | 28.97                  | 11.55     | 14.28    |                    |
|                                    | 20600   | 844             | -18.14        | 29.77                  | 11.63     | 14.56    |                    |

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 26                         |         |                 |               |                        |           |          |                    |
|-------------------------------------|---------|-----------------|---------------|------------------------|-----------|----------|--------------------|
| Channel Bandwidth: 1.4 MHz / QPSK   |         |                 |               |                        |           |          |                    |
| Plane                               | Channel | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | ERP (dBm) | ERP (mW) | Polarization (H/V) |
| Z                                   | 26797   | 824.7           | -7.35         | 29.06                  | 21.71     | 148.18   | H                  |
|                                     | 26915   | 836.5           | -7.61         | 29.15                  | 21.54     | 142.56   |                    |
|                                     | 27033   | 848.3           | -7.72         | 29.07                  | 21.35     | 136.52   |                    |
|                                     | 26797   | 824.7           | -12.11        | 29.35                  | 17.24     | 53.02    | V                  |
|                                     | 26915   | 836.5           | -11.86        | 28.97                  | 17.11     | 51.37    |                    |
|                                     | 27033   | 848.3           | -12.76        | 29.77                  | 17.01     | 50.26    |                    |
| Channel Bandwidth: 1.4 MHz / 16QAM  |         |                 |               |                        |           |          |                    |
| Z                                   | 26797   | 824.7           | -8.36         | 29.06                  | 20.70     | 117.44   | H                  |
|                                     | 26915   | 836.5           | -8.62         | 29.15                  | 20.53     | 112.98   |                    |
|                                     | 27033   | 848.3           | -8.72         | 29.07                  | 20.35     | 108.44   |                    |
|                                     | 26797   | 824.7           | -13.11        | 29.35                  | 16.24     | 42.11    | V                  |
|                                     | 26915   | 836.5           | -12.86        | 28.97                  | 16.11     | 40.80    |                    |
|                                     | 27033   | 848.3           | -13.77        | 29.77                  | 16.00     | 39.83    |                    |
| Channel Bandwidth: 1.4 MHz / 64QAM  |         |                 |               |                        |           |          |                    |
| Z                                   | 26797   | 824.7           | -9.36         | 29.06                  | 19.70     | 93.28    | H                  |
|                                     | 26915   | 836.5           | -9.63         | 29.15                  | 19.52     | 89.54    |                    |
|                                     | 27033   | 848.3           | -9.72         | 29.07                  | 19.35     | 86.14    |                    |
|                                     | 26797   | 824.7           | -14.12        | 29.35                  | 15.23     | 33.37    | V                  |
|                                     | 26915   | 836.5           | -13.85        | 28.97                  | 15.12     | 32.49    |                    |
|                                     | 27033   | 848.3           | -14.78        | 29.77                  | 14.99     | 31.56    |                    |
| Channel Bandwidth: 1.4 MHz / 256QAM |         |                 |               |                        |           |          |                    |
| Z                                   | 26797   | 824.7           | -12.36        | 29.06                  | 16.70     | 46.75    | H                  |
|                                     | 26915   | 836.5           | -12.62        | 29.15                  | 16.53     | 44.98    |                    |
|                                     | 27033   | 848.3           | -12.72        | 29.07                  | 16.35     | 43.17    |                    |
|                                     | 26797   | 824.7           | -17.13        | 29.35                  | 12.22     | 16.69    | V                  |
|                                     | 26915   | 836.5           | -16.85        | 28.97                  | 12.12     | 16.28    |                    |
|                                     | 27033   | 848.3           | -17.77        | 29.77                  | 12.00     | 15.86    |                    |

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 26                       |         |                 |               |                        |           |          |                    |
|-----------------------------------|---------|-----------------|---------------|------------------------|-----------|----------|--------------------|
| Channel Bandwidth: 3 MHz / QPSK   |         |                 |               |                        |           |          |                    |
| Plane                             | Channel | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | ERP (dBm) | ERP (mW) | Polarization (H/V) |
| Z                                 | 26805   | 825.5           | -7.32         | 29.058                 | 21.74     | 149.21   | H                  |
|                                   | 26915   | 836.5           | -7.57         | 29.15                  | 21.58     | 143.88   |                    |
|                                   | 27025   | 847.5           | -7.68         | 29.072                 | 21.39     | 137.78   |                    |
|                                   | 26805   | 825.5           | -12.07        | 29.354                 | 17.28     | 53.51    | V                  |
|                                   | 26915   | 836.5           | -11.83        | 28.967                 | 17.14     | 51.72    |                    |
|                                   | 27025   | 847.5           | -12.72        | 29.772                 | 17.05     | 50.72    |                    |
| Channel Bandwidth: 3 MHz / 16QAM  |         |                 |               |                        |           |          |                    |
| Z                                 | 26805   | 825.5           | -8.32         | 29.058                 | 20.74     | 118.52   | H                  |
|                                   | 26915   | 836.5           | -8.58         | 29.15                  | 20.57     | 114.02   |                    |
|                                   | 27025   | 847.5           | -8.69         | 29.072                 | 20.38     | 109.19   |                    |
|                                   | 26805   | 825.5           | -13.08        | 29.354                 | 16.27     | 42.40    | V                  |
|                                   | 26915   | 836.5           | -12.82        | 28.967                 | 16.15     | 41.18    |                    |
|                                   | 27025   | 847.5           | -13.73        | 29.772                 | 16.04     | 40.20    |                    |
| Channel Bandwidth: 3 MHz / 64QAM  |         |                 |               |                        |           |          |                    |
| Z                                 | 26805   | 825.5           | -9.32         | 29.058                 | 19.74     | 94.15    | H                  |
|                                   | 26915   | 836.5           | -9.58         | 29.15                  | 19.57     | 90.57    |                    |
|                                   | 27025   | 847.5           | -9.69         | 29.072                 | 19.38     | 86.74    |                    |
|                                   | 26805   | 825.5           | -14.07        | 29.354                 | 15.28     | 33.76    | V                  |
|                                   | 26915   | 836.5           | -13.82        | 28.967                 | 15.15     | 32.71    |                    |
|                                   | 27025   | 847.5           | -14.74        | 29.772                 | 15.03     | 31.86    |                    |
| Channel Bandwidth: 3 MHz / 256QAM |         |                 |               |                        |           |          |                    |
| Z                                 | 26805   | 825.5           | -12.32        | 29.058                 | 16.74     | 47.18    | H                  |
|                                   | 26915   | 836.5           | -12.58        | 29.15                  | 16.57     | 45.39    |                    |
|                                   | 27025   | 847.5           | -12.70        | 29.072                 | 16.37     | 43.37    |                    |
|                                   | 26805   | 825.5           | -17.02        | 29.354                 | 12.33     | 17.12    | V                  |
|                                   | 26915   | 836.5           | -16.82        | 28.967                 | 12.15     | 16.39    |                    |
|                                   | 27025   | 847.5           | -17.73        | 29.772                 | 12.04     | 16.00    |                    |

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 26                       |         |                 |               |                        |           |          |                    |
|-----------------------------------|---------|-----------------|---------------|------------------------|-----------|----------|--------------------|
| Channel Bandwidth: 5 MHz / QPSK   |         |                 |               |                        |           |          |                    |
| Plane                             | Channel | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | ERP (dBm) | ERP (mW) | Polarization (H/V) |
| Z                                 | 26815   | 826.5           | -7.29         | 29.06                  | 21.77     | 150.24   | H                  |
|                                   | 26915   | 836.5           | -7.53         | 29.15                  | 21.62     | 145.21   |                    |
|                                   | 27015   | 846.5           | -7.64         | 29.07                  | 21.43     | 139.06   |                    |
|                                   | 26815   | 826.5           | -12.03        | 29.35                  | 17.32     | 54.00    | V                  |
|                                   | 26915   | 836.5           | -11.79        | 28.97                  | 17.18     | 52.20    |                    |
|                                   | 27015   | 846.5           | -12.69        | 29.77                  | 17.08     | 51.07    |                    |
| Channel Bandwidth: 5 MHz / 16QAM  |         |                 |               |                        |           |          |                    |
| Z                                 | 26815   | 826.5           | -8.29         | 29.06                  | 20.77     | 119.34   | H                  |
|                                   | 26915   | 836.5           | -8.54         | 29.15                  | 20.61     | 115.08   |                    |
|                                   | 27015   | 846.5           | -8.64         | 29.07                  | 20.43     | 110.46   |                    |
|                                   | 26815   | 826.5           | -13.04        | 29.35                  | 16.31     | 42.80    | V                  |
|                                   | 26915   | 836.5           | -12.79        | 28.97                  | 16.18     | 41.47    |                    |
|                                   | 27015   | 846.5           | -13.70        | 29.77                  | 16.07     | 40.48    |                    |
| Channel Bandwidth: 5 MHz / 64QAM  |         |                 |               |                        |           |          |                    |
| Z                                 | 26815   | 826.5           | -9.29         | 29.06                  | 19.77     | 94.80    | H                  |
|                                   | 26915   | 836.5           | -9.54         | 29.15                  | 19.61     | 91.41    |                    |
|                                   | 27015   | 846.5           | -9.65         | 29.07                  | 19.42     | 87.54    |                    |
|                                   | 26815   | 826.5           | -14.05        | 29.35                  | 15.30     | 33.92    | V                  |
|                                   | 26915   | 836.5           | -13.78        | 28.97                  | 15.19     | 33.01    |                    |
|                                   | 27015   | 846.5           | -14.71        | 29.77                  | 15.06     | 32.08    |                    |
| Channel Bandwidth: 5 MHz / 256QAM |         |                 |               |                        |           |          |                    |
| Z                                 | 26815   | 826.5           | -12.29        | 29.06                  | 16.77     | 47.51    | H                  |
|                                   | 26915   | 836.5           | -12.55        | 29.15                  | 16.60     | 45.71    |                    |
|                                   | 27015   | 846.5           | -12.66        | 29.07                  | 16.41     | 43.77    |                    |
|                                   | 26815   | 826.5           | -17.05        | 29.35                  | 12.30     | 17.00    | V                  |
|                                   | 26915   | 836.5           | -16.79        | 28.97                  | 12.18     | 16.51    |                    |
|                                   | 27015   | 846.5           | -17.72        | 29.77                  | 12.05     | 16.04    |                    |

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 26                        |         |                 |               |                        |           |          |                    |
|------------------------------------|---------|-----------------|---------------|------------------------|-----------|----------|--------------------|
| Channel Bandwidth: 10 MHz / QPSK   |         |                 |               |                        |           |          |                    |
| Plane                              | Channel | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | ERP (dBm) | ERP (mW) | Polarization (H/V) |
| Z                                  | 26840   | 829             | -7.25         | 29.06                  | 21.81     | 151.64   | H                  |
|                                    | 26915   | 836.5           | -7.50         | 29.15                  | 21.65     | 146.22   |                    |
|                                    | 26990   | 844             | -7.61         | 29.07                  | 21.46     | 140.02   |                    |
|                                    | 26840   | 829             | -12.00        | 29.35                  | 17.35     | 54.38    | V                  |
|                                    | 26915   | 836.5           | -11.75        | 28.97                  | 17.22     | 52.69    |                    |
|                                    | 26990   | 844             | -12.66        | 29.77                  | 17.11     | 51.43    |                    |
| Channel Bandwidth: 10 MHz / 16QAM  |         |                 |               |                        |           |          |                    |
| Z                                  | 26840   | 829             | -8.25         | 29.06                  | 20.81     | 120.45   | H                  |
|                                    | 26915   | 836.5           | -8.51         | 29.15                  | 20.64     | 115.88   |                    |
|                                    | 26990   | 844             | -8.62         | 29.07                  | 20.45     | 110.97   |                    |
|                                    | 26840   | 829             | -13.10        | 29.35                  | 16.25     | 42.21    | V                  |
|                                    | 26915   | 836.5           | -12.75        | 28.97                  | 16.22     | 41.85    |                    |
|                                    | 26990   | 844             | -13.66        | 29.77                  | 16.11     | 40.85    |                    |
| Channel Bandwidth: 10 MHz / 64QAM  |         |                 |               |                        |           |          |                    |
| Z                                  | 26840   | 829             | -9.25         | 29.06                  | 19.81     | 95.68    | H                  |
|                                    | 26915   | 836.5           | -9.50         | 29.15                  | 19.65     | 92.26    |                    |
|                                    | 26990   | 844             | -9.63         | 29.07                  | 19.44     | 87.94    |                    |
|                                    | 26840   | 829             | -14.10        | 29.35                  | 15.25     | 33.53    | V                  |
|                                    | 26915   | 836.5           | -13.76        | 28.97                  | 15.21     | 33.17    |                    |
|                                    | 26990   | 844             | -14.65        | 29.77                  | 15.12     | 32.52    |                    |
| Channel Bandwidth: 10 MHz / 256QAM |         |                 |               |                        |           |          |                    |
| Z                                  | 26840   | 829             | -12.25        | 29.06                  | 16.81     | 47.95    | H                  |
|                                    | 26915   | 836.5           | -12.50        | 29.15                  | 16.65     | 46.24    |                    |
|                                    | 26990   | 844             | -12.63        | 29.07                  | 16.44     | 44.08    |                    |
|                                    | 26840   | 829             | -17.11        | 29.35                  | 12.24     | 16.76    | V                  |
|                                    | 26915   | 836.5           | -16.76        | 28.97                  | 12.21     | 16.62    |                    |
|                                    | 26990   | 844             | -17.65        | 29.77                  | 12.12     | 16.30    |                    |

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 26                        |         |                 |               |                        |           |          |                    |
|------------------------------------|---------|-----------------|---------------|------------------------|-----------|----------|--------------------|
| Channel Bandwidth: 15 MHz / QPSK   |         |                 |               |                        |           |          |                    |
| Plane                              | Channel | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | ERP (dBm) | ERP (mW) | Polarization (H/V) |
| Z                                  | 26865   | 831.5           | -7.21         | 29.06                  | 21.85     | 153.04   | H                  |
|                                    | 26915   | 836.5           | -7.46         | 29.15                  | 21.69     | 147.57   |                    |
|                                    | 26965   | 841.5           | -7.57         | 29.07                  | 21.50     | 141.32   |                    |
|                                    | 26865   | 831.5           | -11.96        | 29.35                  | 17.39     | 54.88    | V                  |
|                                    | 26915   | 836.5           | -11.71        | 28.97                  | 17.26     | 53.17    |                    |
|                                    | 26965   | 841.5           | -12.62        | 29.77                  | 17.15     | 51.90    |                    |
| Channel Bandwidth: 15 MHz / 16QAM  |         |                 |               |                        |           |          |                    |
| Z                                  | 26865   | 831.5           | -8.21         | 29.06                  | 20.85     | 121.56   | H                  |
|                                    | 26915   | 836.5           | -8.47         | 29.15                  | 20.68     | 116.95   |                    |
|                                    | 26965   | 841.5           | -8.57         | 29.07                  | 20.50     | 112.25   |                    |
|                                    | 26865   | 831.5           | -12.97        | 29.35                  | 16.38     | 43.49    | V                  |
|                                    | 26915   | 836.5           | -12.72        | 28.97                  | 16.25     | 42.14    |                    |
|                                    | 26965   | 841.5           | -13.62        | 29.77                  | 16.15     | 41.23    |                    |
| Channel Bandwidth: 15 MHz / 64QAM  |         |                 |               |                        |           |          |                    |
| Z                                  | 26865   | 831.5           | -9.21         | 29.06                  | 19.85     | 96.56    | H                  |
|                                    | 26915   | 836.5           | -9.47         | 29.15                  | 19.68     | 92.90    |                    |
|                                    | 26965   | 841.5           | -9.56         | 29.07                  | 19.51     | 89.37    |                    |
|                                    | 26865   | 831.5           | -13.96        | 29.35                  | 15.39     | 34.63    | V                  |
|                                    | 26915   | 836.5           | -13.72        | 28.97                  | 15.25     | 33.47    |                    |
|                                    | 26965   | 841.5           | -14.63        | 29.77                  | 15.14     | 32.67    |                    |
| Channel Bandwidth: 15 MHz / 256QAM |         |                 |               |                        |           |          |                    |
| Z                                  | 26865   | 831.5           | -12.20        | 29.06                  | 16.86     | 48.51    | H                  |
|                                    | 26915   | 836.5           | -12.47        | 29.15                  | 16.68     | 46.56    |                    |
|                                    | 26965   | 841.5           | -12.57        | 29.07                  | 16.50     | 44.69    |                    |
|                                    | 26865   | 831.5           | -16.97        | 29.35                  | 12.38     | 17.31    | V                  |
|                                    | 26915   | 836.5           | -16.72        | 28.97                  | 12.25     | 16.78    |                    |
|                                    | 26965   | 841.5           | -17.63        | 29.77                  | 12.14     | 16.38    |                    |

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB)



## 4.2 Radiated Emission Measurement

### 4.2.1 Limits of Radiated Emission Measurement

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

### 4.2.2 Test Procedure

- a. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b.  $EIRP = \text{Output power level} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ . Correction Factor (includes EIRP and ERP unit conversion factor) =  $\text{Antenna gain of substitution horn} - \text{Tx cable loss}$ . Measurement method refers to ANSI C63.26 section 5.5 and 5.2.7.
- c. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$ .

#### NOTE:

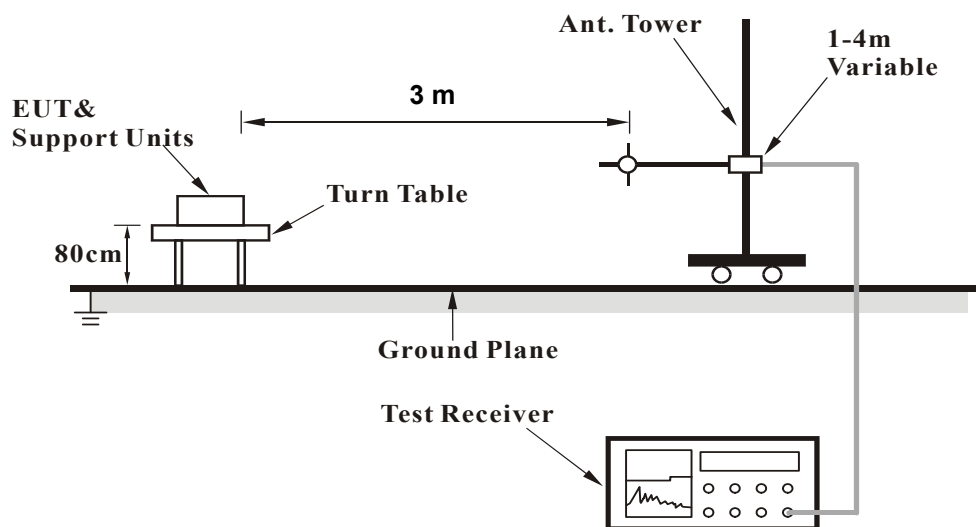
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz: The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

### 4.2.3 Deviation from Test Standard

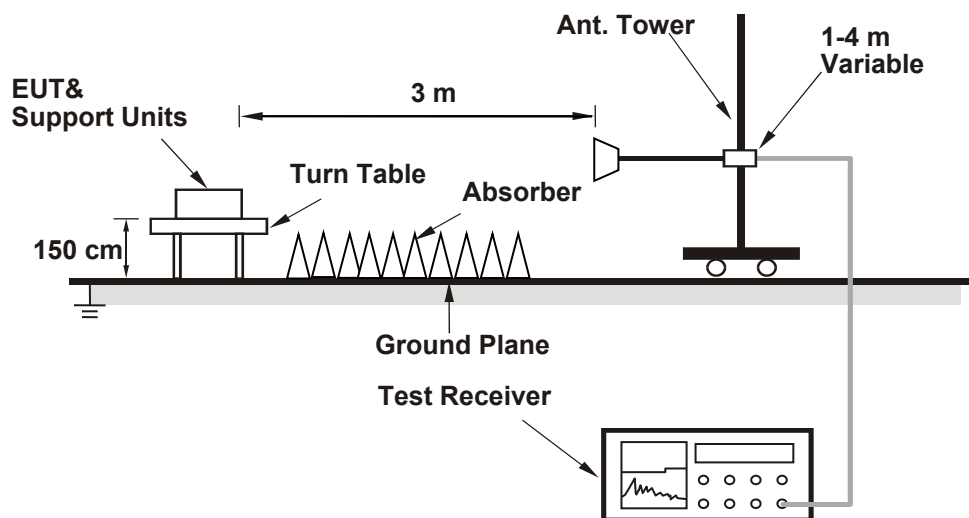
No deviation.

#### 4.2.4 Test Setup

##### <Radiated Emission below or equal 1 GHz>



##### <Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.2.5 Test Results

WCDMA:

Low Channel

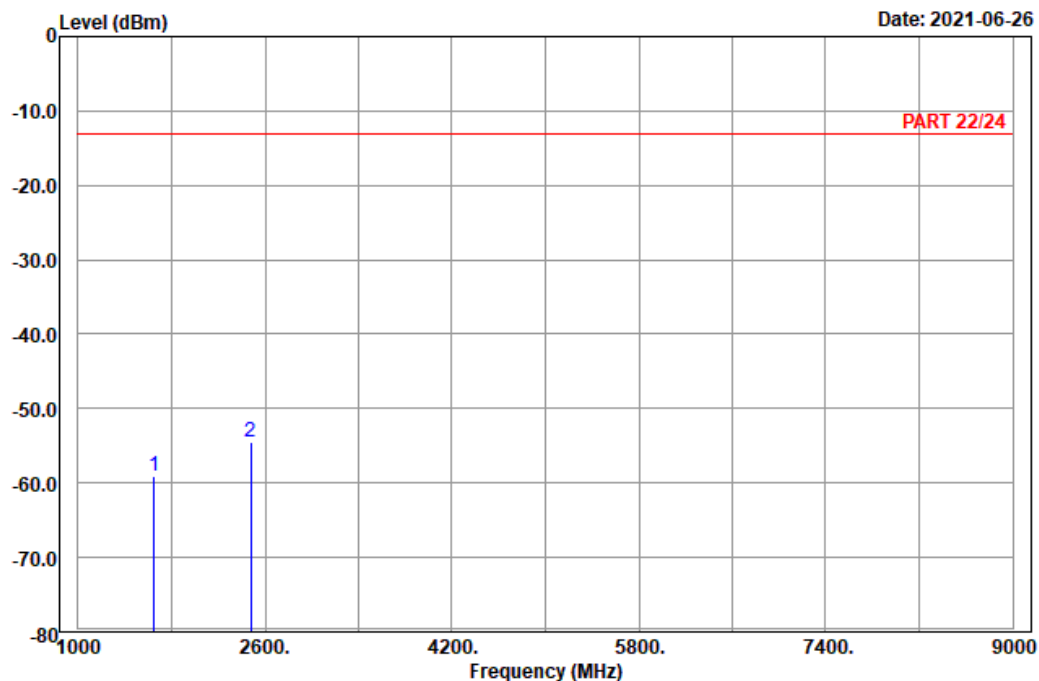


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2021-06-26



Site : 966 chamber 1  
Condition: PART 22/24 Horizontal  
Remark : Band V\_Link\_L-Ch  
Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1652.80 | -59.09 | -66.82        | 7.73   | -13.00        | -46.09        | Peak   |
| 2 pp | 2479.20 | -54.47 | -65.50        | 11.03  | -13.00        | -41.47        | Peak   |

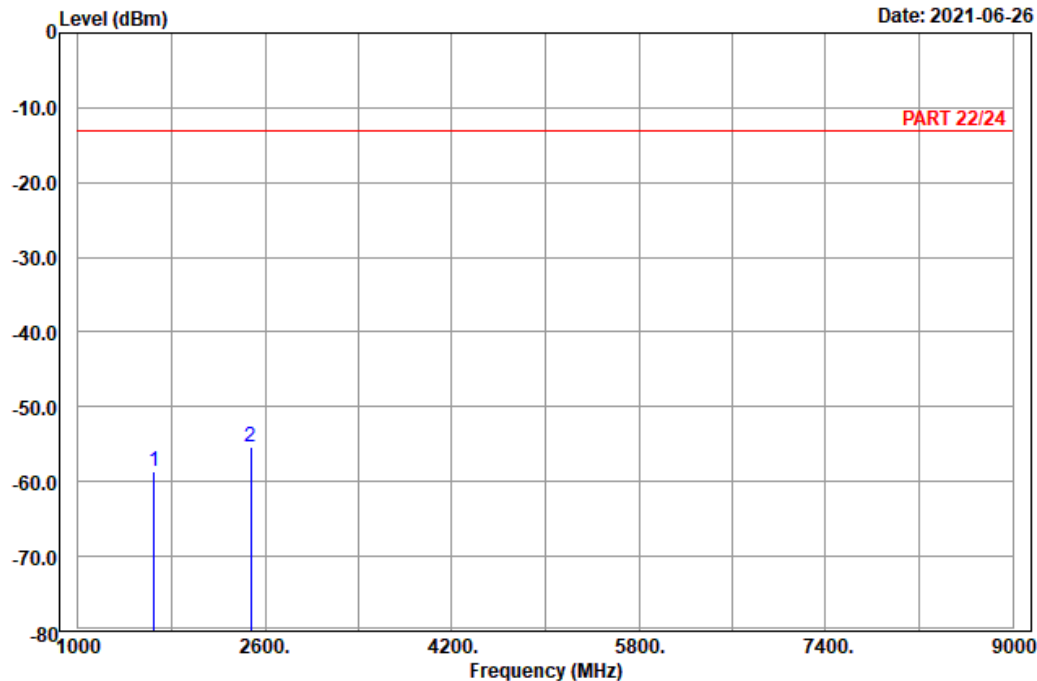


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2021-06-26



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : Band V\_Link\_L-Ch

Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1652.80 | -58.61 | -66.34     | 7.73   | -13.00     | -45.61     | Peak   |
| 2 pp | 2479.20 | -55.37 | -66.40     | 11.03  | -13.00     | -42.37     | Peak   |

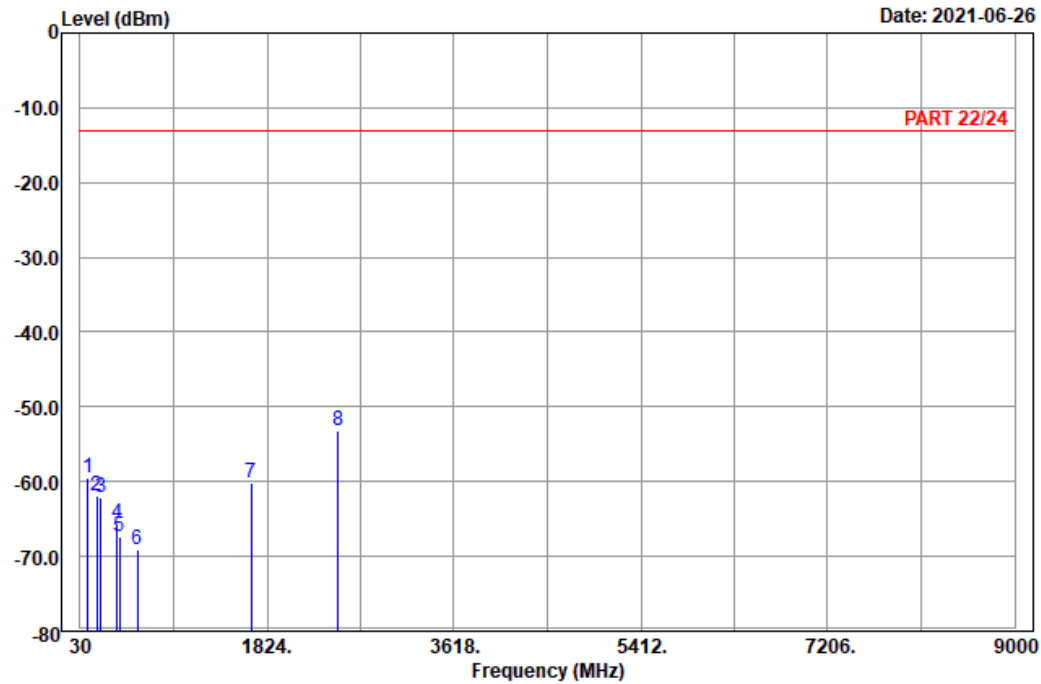
# Middle Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 7



Site : 966 chamber 1  
Condition: PART 22/24 Horizontal  
Remark : Band V\_Link\_M-Ch  
Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 100.47  | -59.43 | -49.43        | -10.00 | -13.00        | -46.43        | Peak   |
| 2    | 192.54  | -61.80 | -55.93        | -5.87  | -13.00        | -48.80        | Peak   |
| 3    | 226.02  | -62.02 | -56.19        | -5.83  | -13.00        | -49.02        | Peak   |
| 4    | 384.00  | -65.69 | -62.12        | -3.57  | -13.00        | -52.69        | Peak   |
| 5    | 405.70  | -67.29 | -64.42        | -2.87  | -13.00        | -54.29        | Peak   |
| 6    | 577.90  | -69.10 | -68.60        | -0.50  | -13.00        | -56.10        | Peak   |
| 7    | 1672.80 | -60.22 | -68.13        | 7.91   | -13.00        | -47.22        | Peak   |
| 8 pp | 2509.20 | -53.12 | -64.40        | 11.28  | -13.00        | -40.12        | Peak   |

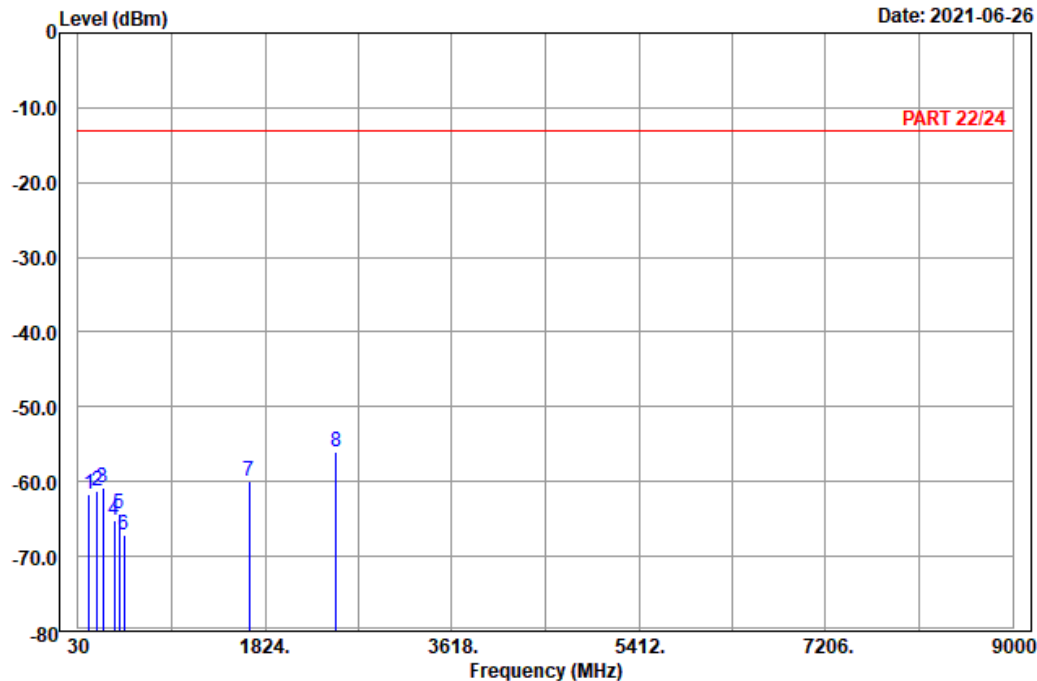


# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8

Date: 2021-06-26



Site : 966 chamber 1  
Condition: PART 22/24 Vertical  
Remark : Band V\_Link\_M-Ch  
Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 134.76  | -61.65 | -53.98     | -7.67  | -13.00     | -48.65     | Peak   |
| 2    | 211.44  | -61.25 | -55.22     | -6.03  | -13.00     | -48.25     | Peak   |
| 3    | 265.71  | -60.81 | -55.16     | -5.65  | -13.00     | -47.81     | Peak   |
| 4    | 377.00  | -65.16 | -61.23     | -3.93  | -13.00     | -52.16     | Peak   |
| 5    | 422.50  | -64.41 | -61.16     | -3.25  | -13.00     | -51.41     | Peak   |
| 6    | 469.40  | -67.21 | -62.81     | -4.40  | -13.00     | -54.21     | Peak   |
| 7    | 1672.80 | -59.87 | -67.78     | 7.91   | -13.00     | -46.87     | Peak   |
| 8 pp | 2509.20 | -56.05 | -67.33     | 11.28  | -13.00     | -43.05     | Peak   |

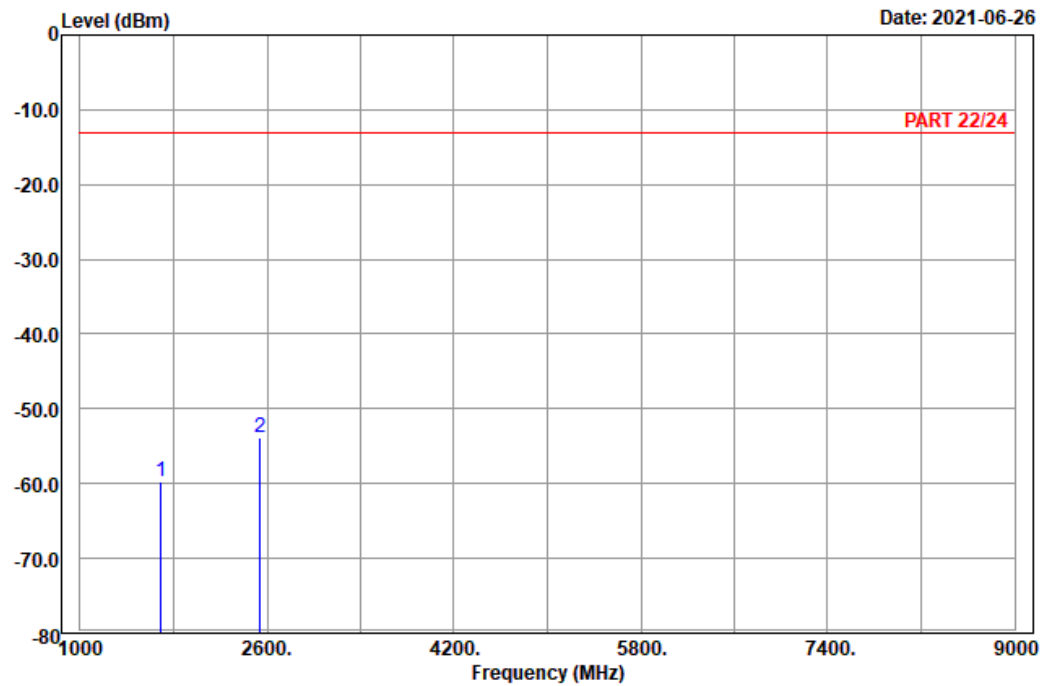
## High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : Band V\_Link\_H-Ch  
 Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1693.20 | -59.72 | -67.86        | 8.14   | -13.00        | -46.72        | Peak   |
| 2 pp | 2539.80 | -53.90 | -65.37        | 11.47  | -13.00        | -40.90        | Peak   |

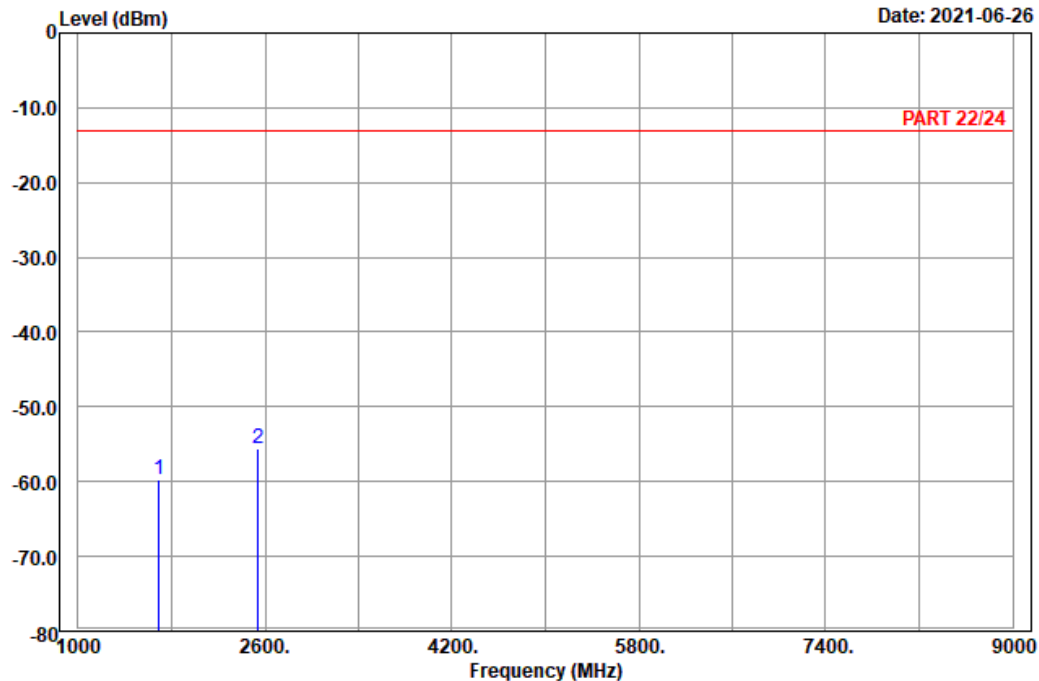


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2021-06-26



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : Band V\_Link\_H-Ch

Tested by: Karl Lee

|   | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|---|---------|--------|------------|--------|------------|------------|--------|
|   | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1 | 1693.20 | -59.78 | -67.92     | 8.14   | -13.00     | -46.78     | Peak   |
| 2 | 2539.80 | -55.65 | -67.12     | 11.47  | -13.00     | -42.65     | Peak   |



# LTE Band 5

Channel Bandwidth: 1.4 MHz / QPSK

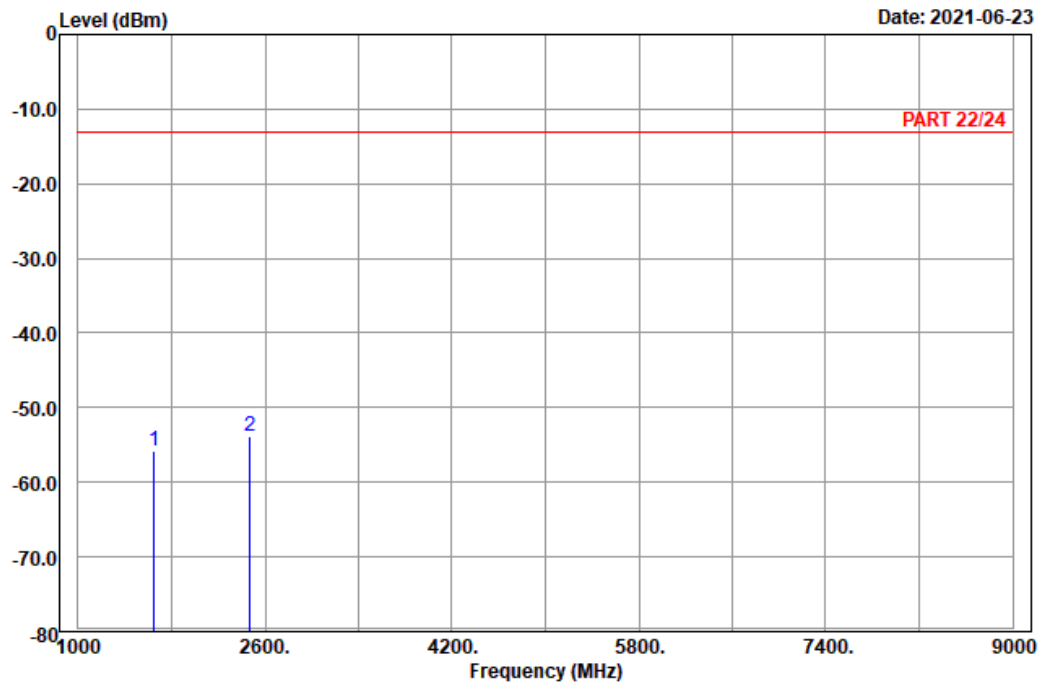
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 5\_Link\_L-Ch  
 Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1649.40 | -55.70 | -63.43        | 7.73   | -13.00        | -42.70        | Peak   |
| 2 pp | 2474.10 | -53.79 | -64.82        | 11.03  | -13.00        | -40.79        | Peak   |

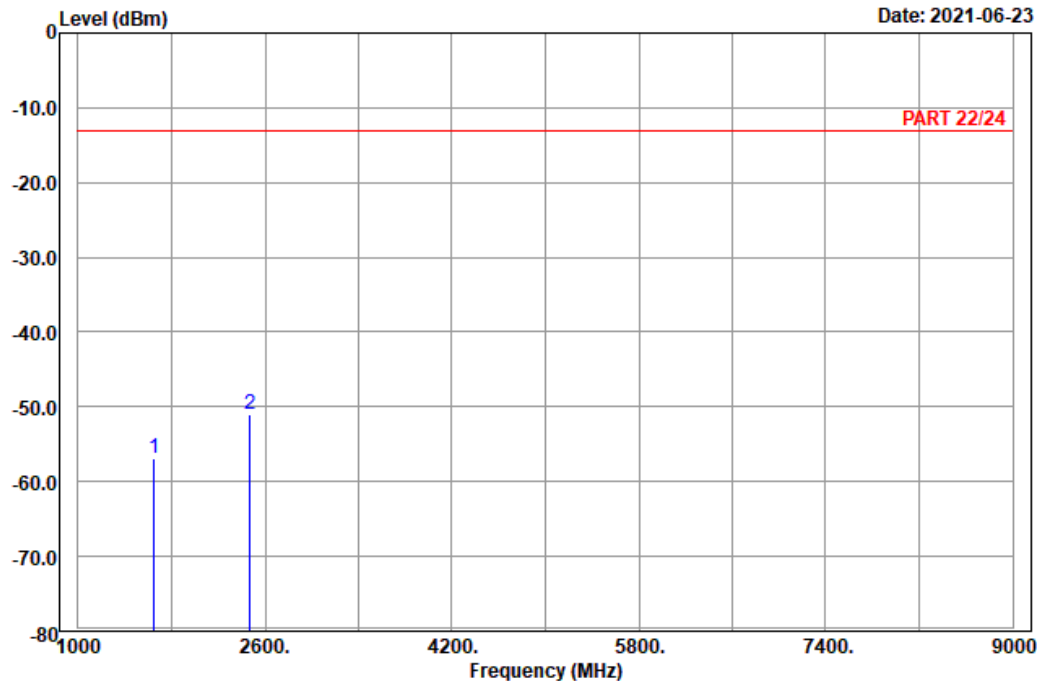


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-23



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 5\_Link\_L-Ch

Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1649.40 | -56.86 | -64.59     | 7.73   | -13.00     | -43.86     | Peak   |
| 2 pp | 2474.10 | -51.09 | -62.12     | 11.03  | -13.00     | -38.09     | Peak   |

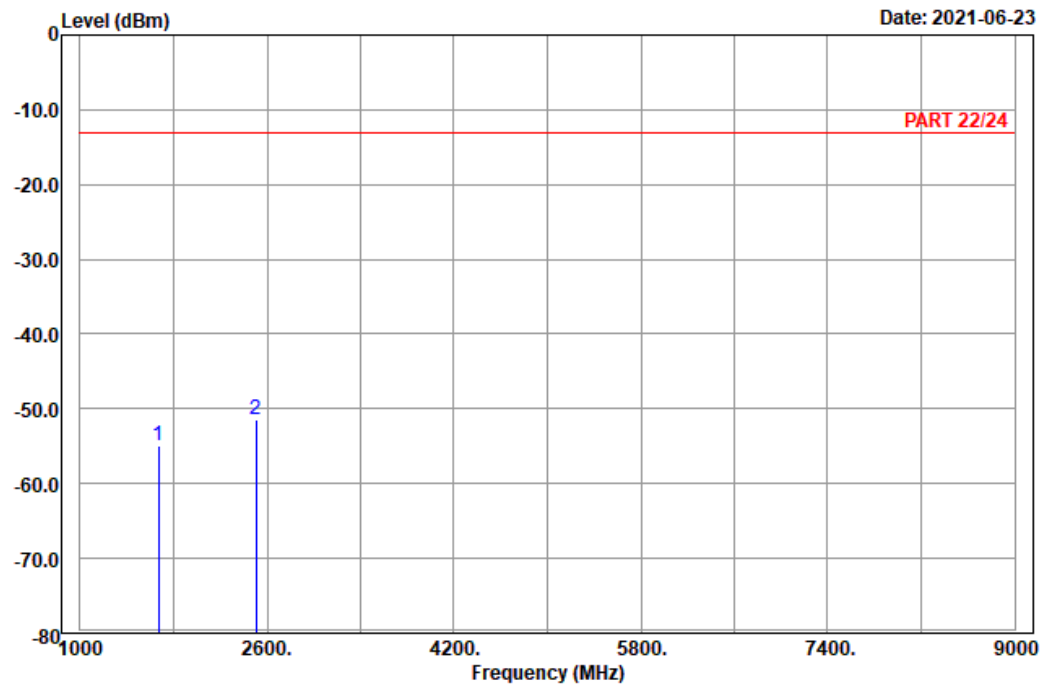
## Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 5\_Link\_M-Ch  
 Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1673.00 | -54.88 | -62.79     | 7.91   | -13.00     | -41.88     | Peak   |
| 2 pp | 2509.50 | -51.37 | -62.65     | 11.28  | -13.00     | -38.37     | Peak   |

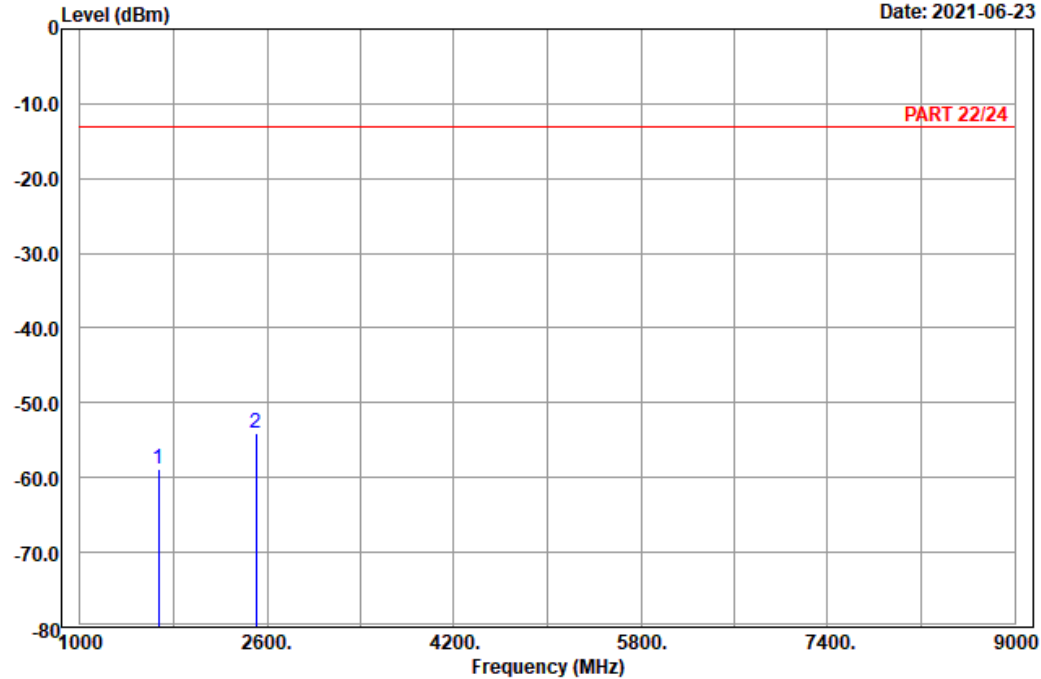


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-23



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 5\_Link\_M-Ch

Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1673.00 | -58.77 | -66.68        | 7.91   | -13.00        | -45.77        | Peak   |
| 2 pp | 2509.50 | -54.12 | -65.40        | 11.28  | -13.00        | -41.12        | Peak   |

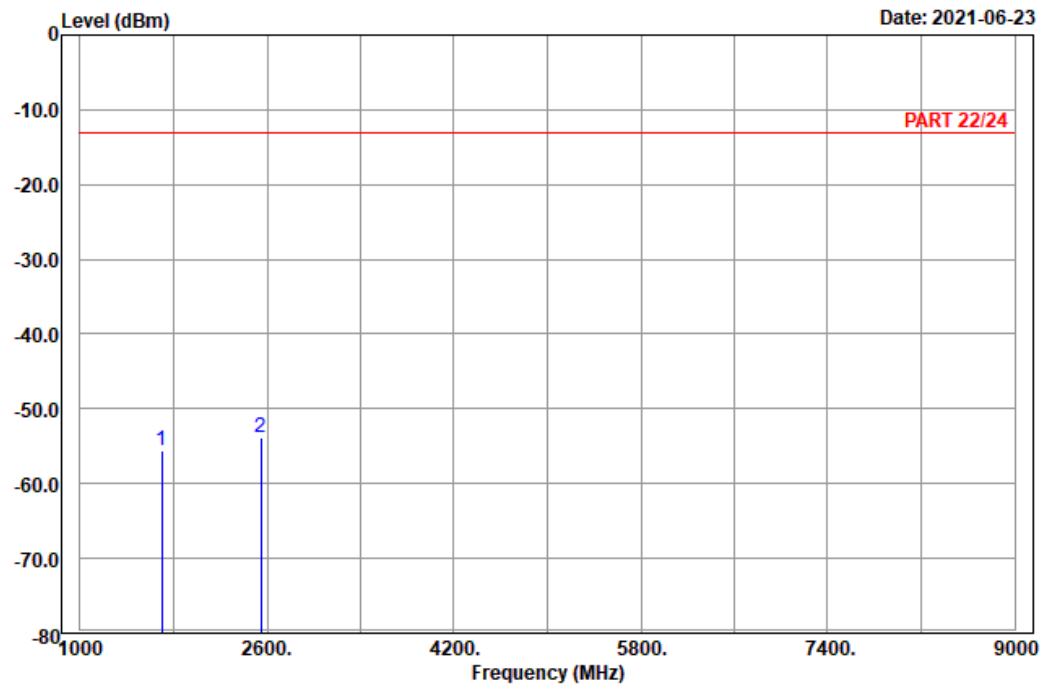
## High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 5\_Link\_H-Ch  
 Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1696.60 | -55.60 | -63.74     | 8.14   | -13.00     | -42.60     | Peak   |
| 2 pp | 2544.90 | -53.79 | -65.26     | 11.47  | -13.00     | -40.79     | Peak   |

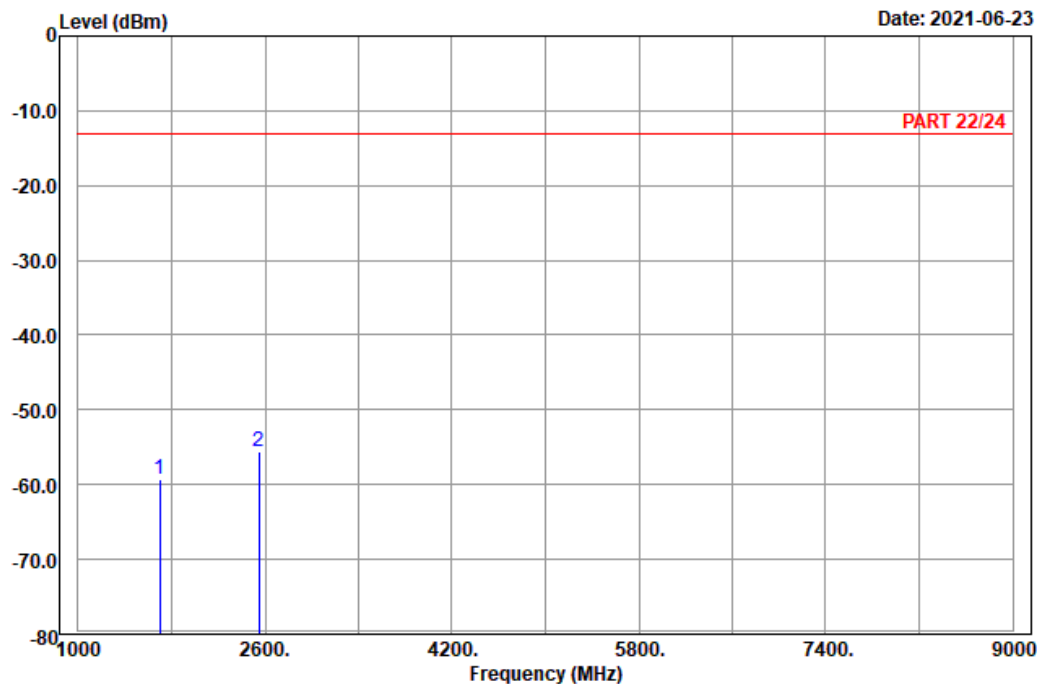


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-23



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 5\_Link\_H-Ch

Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1696.60 | -59.36 | -67.50     | 8.14   | -13.00     | -46.36     | Peak   |
| 2 pp | 2544.90 | -55.69 | -67.16     | 11.47  | -13.00     | -42.69     | Peak   |

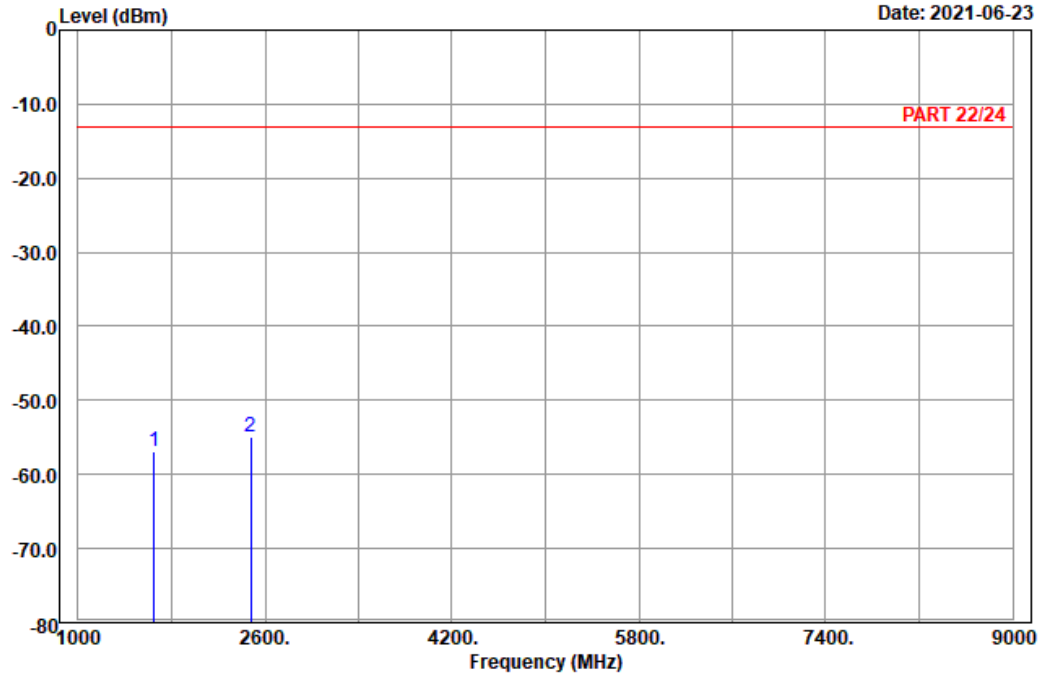
Channel Bandwidth: 5 MHz / QPSK  
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
Condition: PART 22/24 Horizontal  
Remark : LTE\_Band 5\_Link\_L-Ch  
Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1653.00 | -56.96 | -64.69     | 7.73   | -13.00     | -43.96     | Peak   |
| 2 pp | 2479.50 | -54.87 | -65.90     | 11.03  | -13.00     | -41.87     | Peak   |

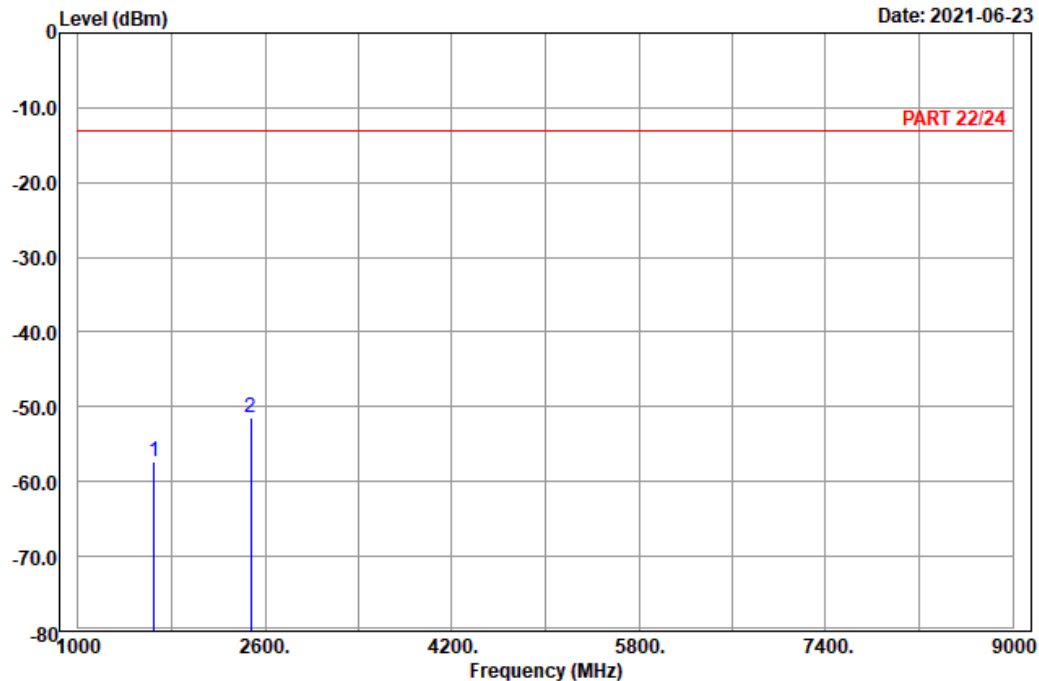


# Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 6

Date: 2021-06-23



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 5\_Link\_L-Ch

Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1653.00 | -57.34 | -65.07     | 7.73   | -13.00     | -44.34     | Peak   |
| 2 pp | 2479.50 | -51.47 | -62.50     | 11.03  | -13.00     | -38.47     | Peak   |



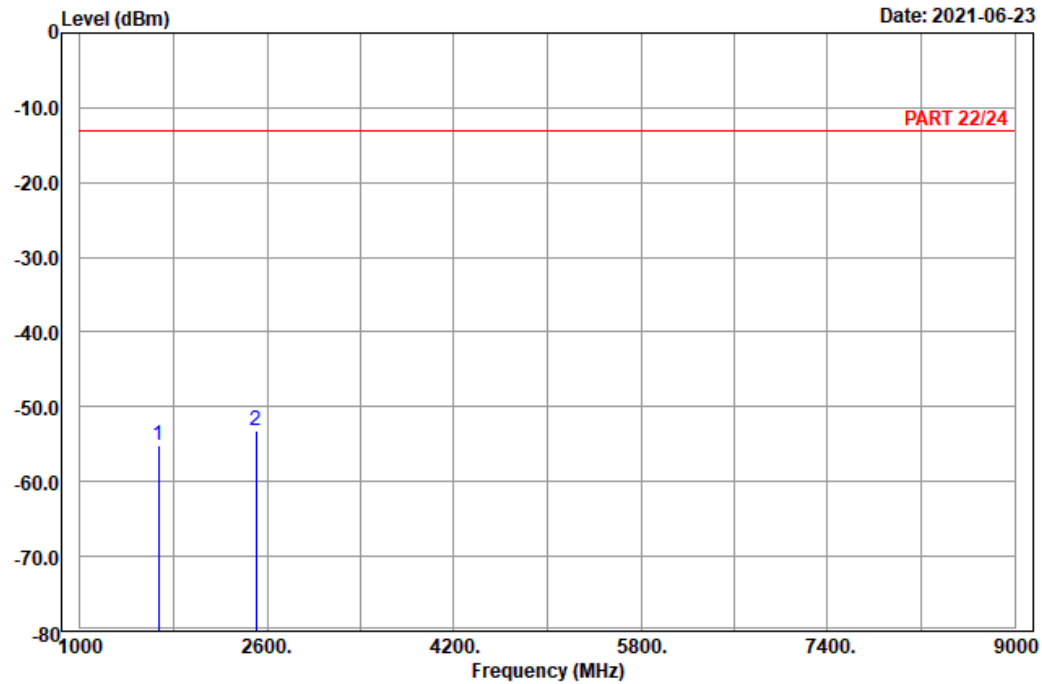
## Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 5\_Link\_M-Ch  
 Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1673.00 | -55.09 | -63.00        | 7.91   | -13.00        | -42.09        | Peak   |
| 2 pp | 2509.50 | -53.13 | -64.41        | 11.28  | -13.00        | -40.13        | Peak   |

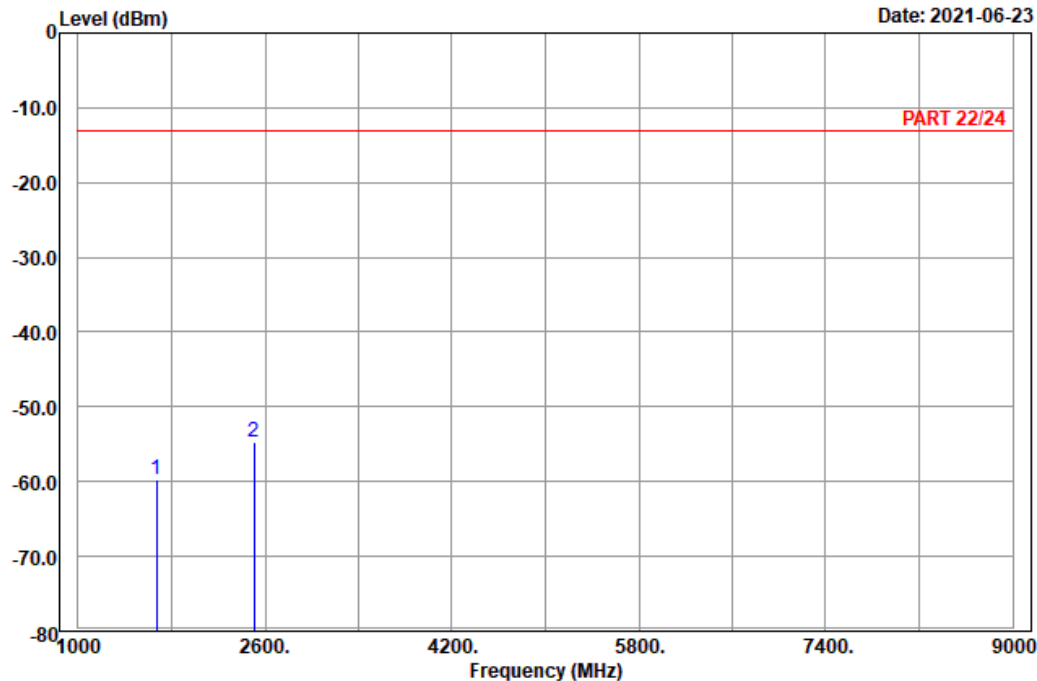


# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-23



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 5\_Link\_M-Ch

Tested by: Karl Lee

|   | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|---|---------|--------|------------|--------|------------|------------|--------|
|   | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1 | 1672.00 | -59.63 | -67.54     | 7.91   | -13.00     | -46.63     | Peak   |
| 2 | 2509.50 | -54.71 | -65.99     | 11.28  | -13.00     | -41.71     | Peak   |

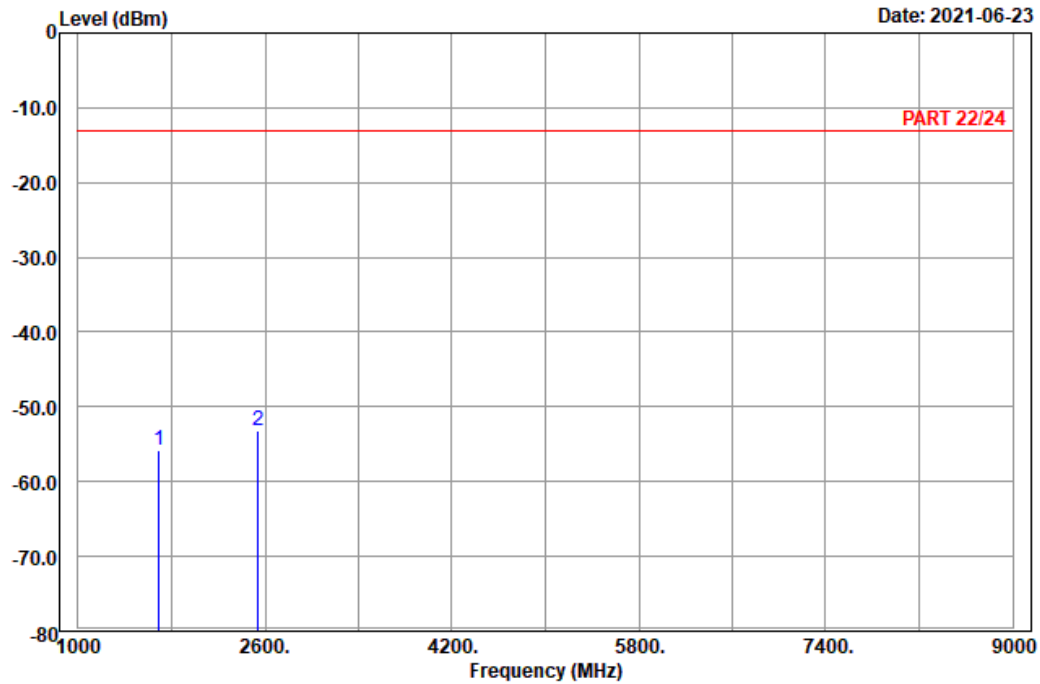
## High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 5\_Link\_H-Ch  
 Tested by: Harry Hsueh

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1693.00 | -55.76 | -63.78        | 8.02   | -13.00        | -42.76        | Peak   |
| 2 pp | 2539.50 | -53.25 | -64.72        | 11.47  | -13.00        | -40.25        | Peak   |

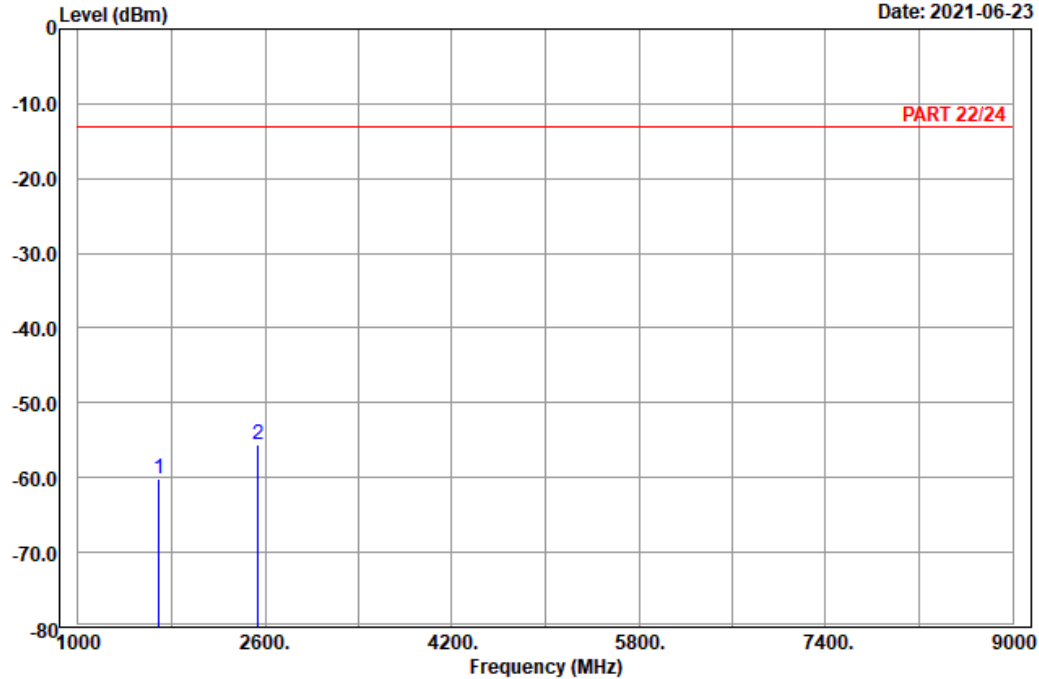


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-23



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 5\_Link\_H-Ch

Tested by: Harry Hsueh

|   | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|---|---------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1 | 1693.00 | -60.10 | -68.12        | 8.02   | -13.00        | -47.10        | Peak   |
| 2 | 2539.50 | -55.68 | -67.15        | 11.47  | -13.00        | -42.68        | Peak   |

Channel Bandwidth: 10 MHz / QPSK  
Low Channel

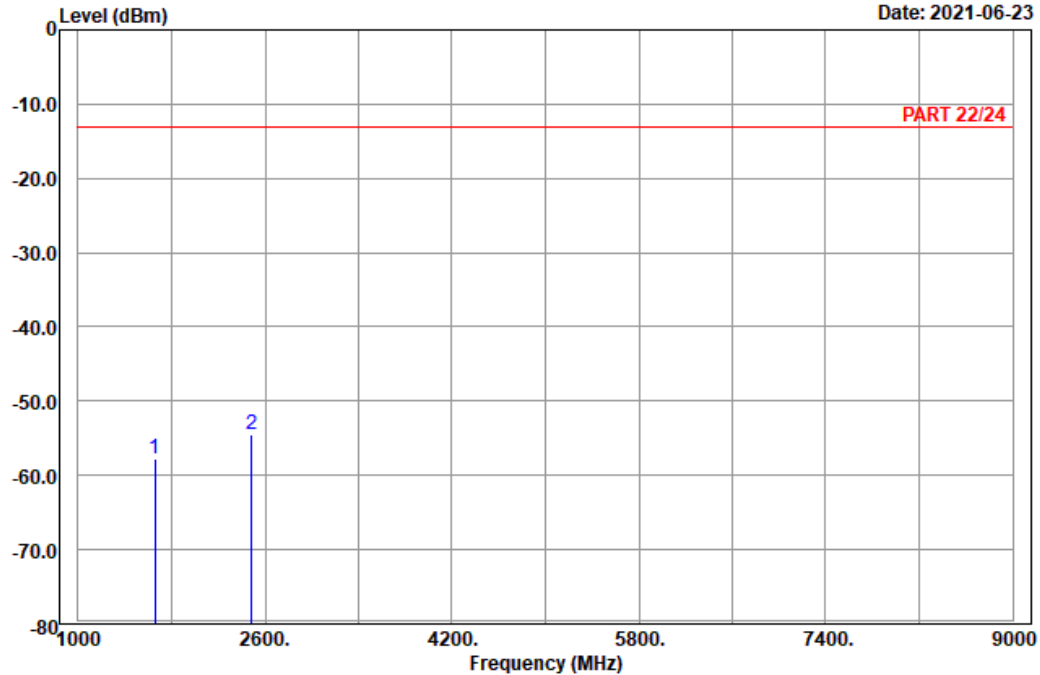


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2021-06-23



Site : 966 chamber 1  
Condition: PART 22/24 Horizontal  
Remark : LTE\_Band 5\_Link\_L-Ch  
Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1658.00 | -57.72 | -65.63        | 7.91   | -13.00        | -44.72        | Peak   |
| 2 pp | 2487.00 | -54.57 | -65.61        | 11.04  | -13.00        | -41.57        | Peak   |

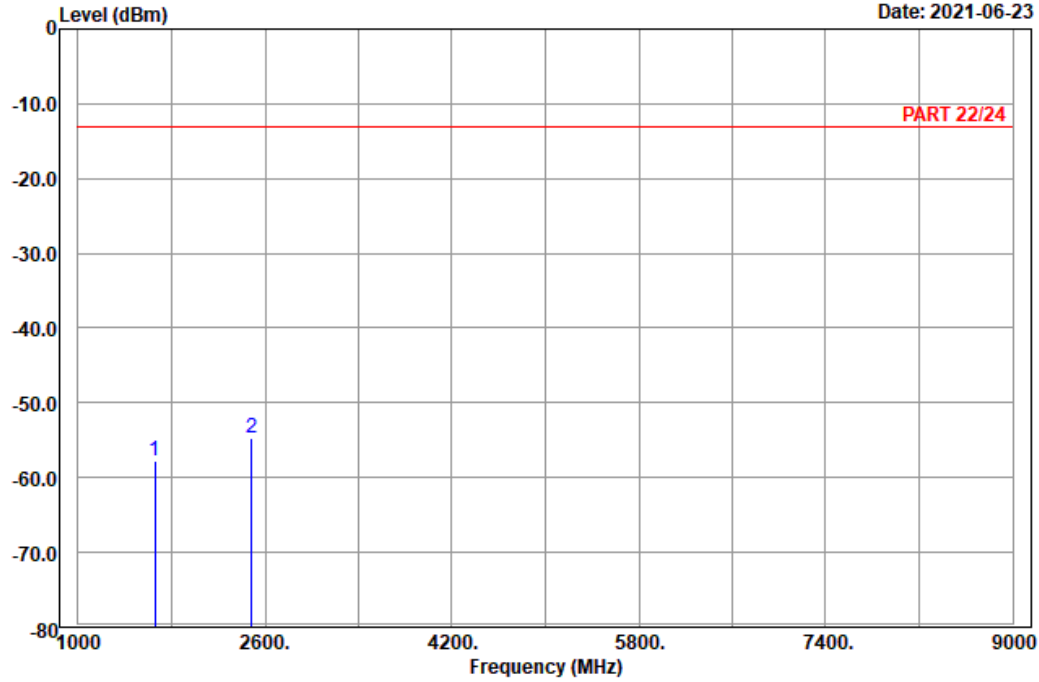


# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-23



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 5\_Link\_L-Ch

Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1658.00 | -57.85 | -65.76        | 7.91   | -13.00        | -44.85        | Peak   |
| 2 pp | 2487.00 | -54.74 | -65.78        | 11.04  | -13.00        | -41.74        | Peak   |

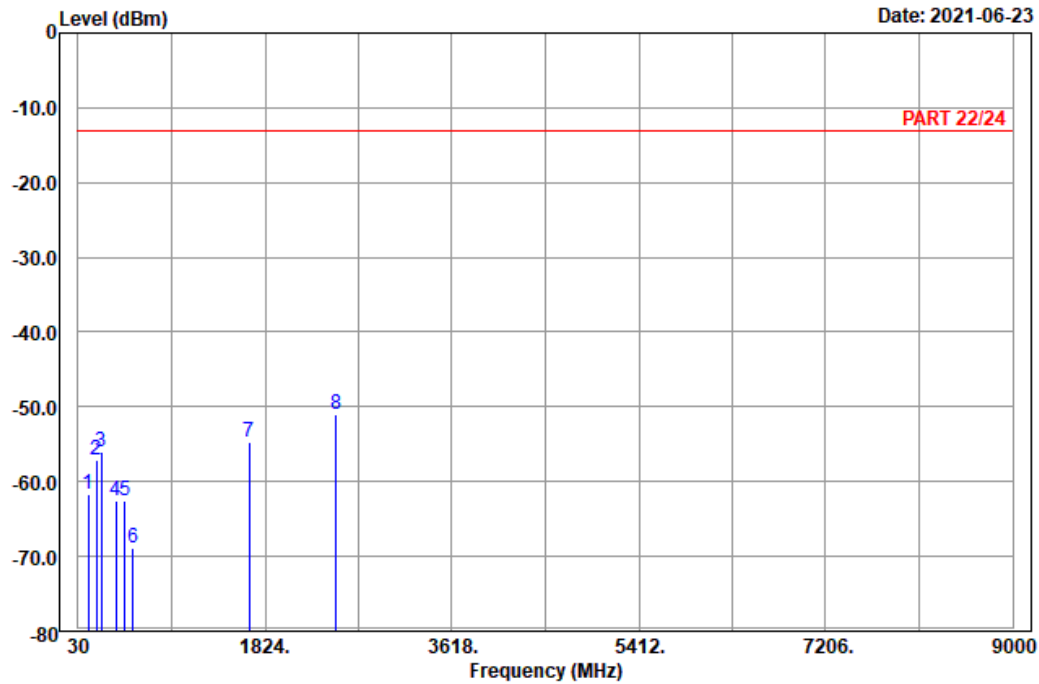
## Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 5\_Link\_M-Ch  
 Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 129.36  | -61.66 | -53.95        | -7.71  | -13.00        | -48.66        | Peak   |
| 2    | 201.72  | -57.11 | -50.95        | -6.16  | -13.00        | -44.11        | Peak   |
| 3    | 248.97  | -56.06 | -50.54        | -5.52  | -13.00        | -43.06        | Peak   |
| 4    | 394.50  | -62.52 | -59.52        | -3.00  | -13.00        | -49.52        | Peak   |
| 5    | 476.40  | -62.55 | -57.96        | -4.59  | -13.00        | -49.55        | Peak   |
| 6    | 553.40  | -68.78 | -67.28        | -1.50  | -13.00        | -55.78        | Peak   |
| 7    | 1673.00 | -54.63 | -62.54        | 7.91   | -13.00        | -41.63        | Peak   |
| 8 pp | 2509.50 | -50.97 | -62.25        | 11.28  | -13.00        | -37.97        | Peak   |

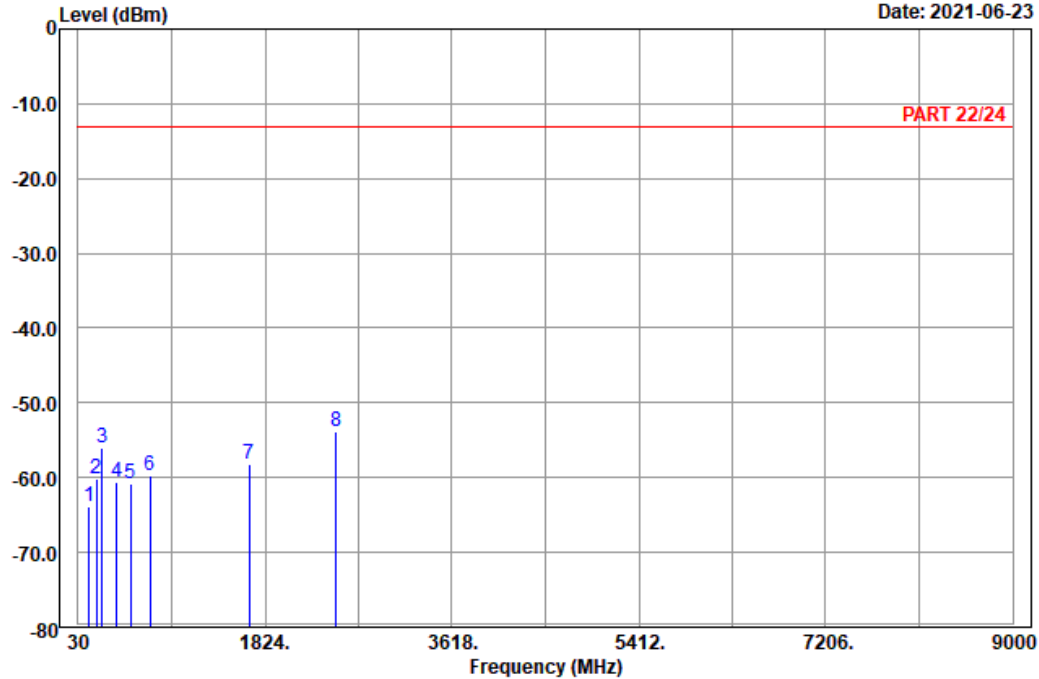


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2021-06-23



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 5\_Link\_M-Ch

Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 136.38  | -63.82 | -56.14        | -7.68  | -13.00        | -50.82        | Peak   |
| 2    | 205.50  | -60.09 | -53.98        | -6.11  | -13.00        | -47.09        | Peak   |
| 3    | 260.85  | -56.04 | -50.44        | -5.60  | -13.00        | -43.04        | Peak   |
| 4    | 397.30  | -60.63 | -57.79        | -2.84  | -13.00        | -47.63        | Peak   |
| 5    | 532.40  | -60.74 | -57.80        | -2.94  | -13.00        | -47.74        | Peak   |
| 6    | 721.40  | -59.80 | -59.02        | -0.78  | -13.00        | -46.80        | Peak   |
| 7    | 1673.00 | -58.18 | -66.09        | 7.91   | -13.00        | -45.18        | Peak   |
| 8 pp | 2509.50 | -53.78 | -65.06        | 11.28  | -13.00        | -40.78        | Peak   |



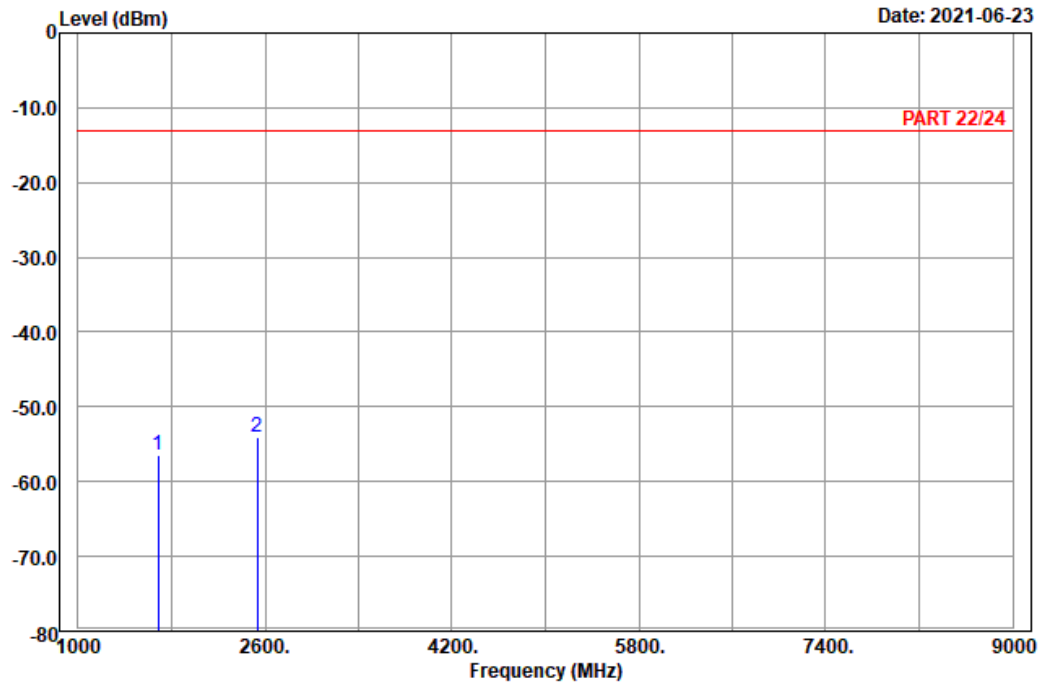
## High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 5\_Link\_H-Ch  
 Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1688.00 | -56.44 | -64.46        | 8.02   | -13.00        | -43.44        | Peak   |
| 2 pp | 2532.00 | -54.07 | -65.45        | 11.38  | -13.00        | -41.07        | Peak   |

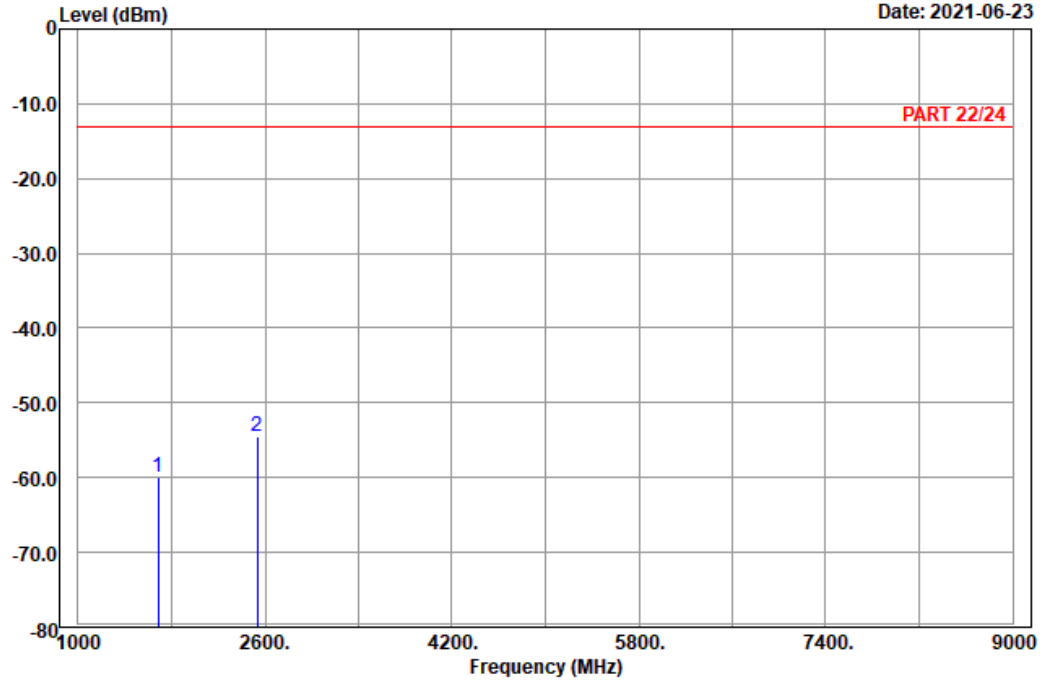


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-23



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 5\_Link\_H-Ch

Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1688.00 | -59.99 | -68.01        | 8.02   | -13.00        | -46.99        | Peak   |
| 2 pp | 2532.00 | -54.47 | -65.85        | 11.38  | -13.00        | -41.47        | Peak   |

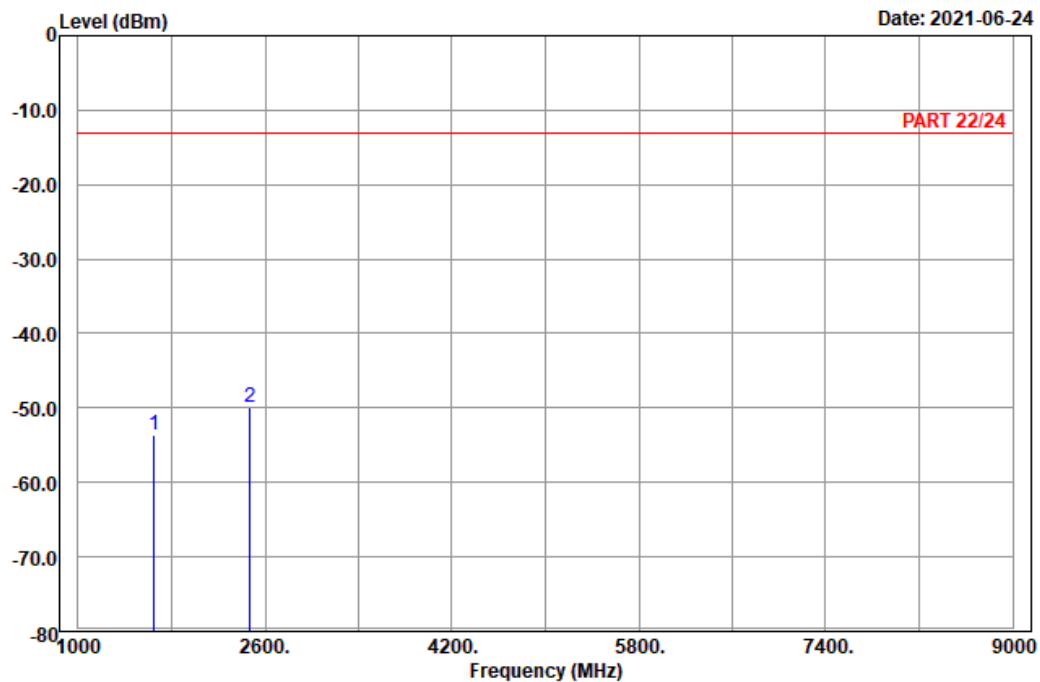
LTE Band 26  
Channel Bandwidth: 1.4 MHz / QPSK  
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
Condition: PART 22/24 Horizontal  
Remark : LTE\_Band 26\_Link\_L-Ch  
Tested by: Karl Lee

|      |         | Read   | Limit  | Over   |        |               |
|------|---------|--------|--------|--------|--------|---------------|
|      | Freq    | Level  | Level  | Line   | Limit  | Factor Remark |
|      | MHz     | dBm    | dBm    | dBm    | dB     | dB            |
| 1    | 1649.40 | -53.72 | -61.45 | -13.00 | -40.72 | 7.73 Peak     |
| 2 pp | 2474.10 | -49.84 | -60.87 | -13.00 | -36.84 | 11.03 Peak    |

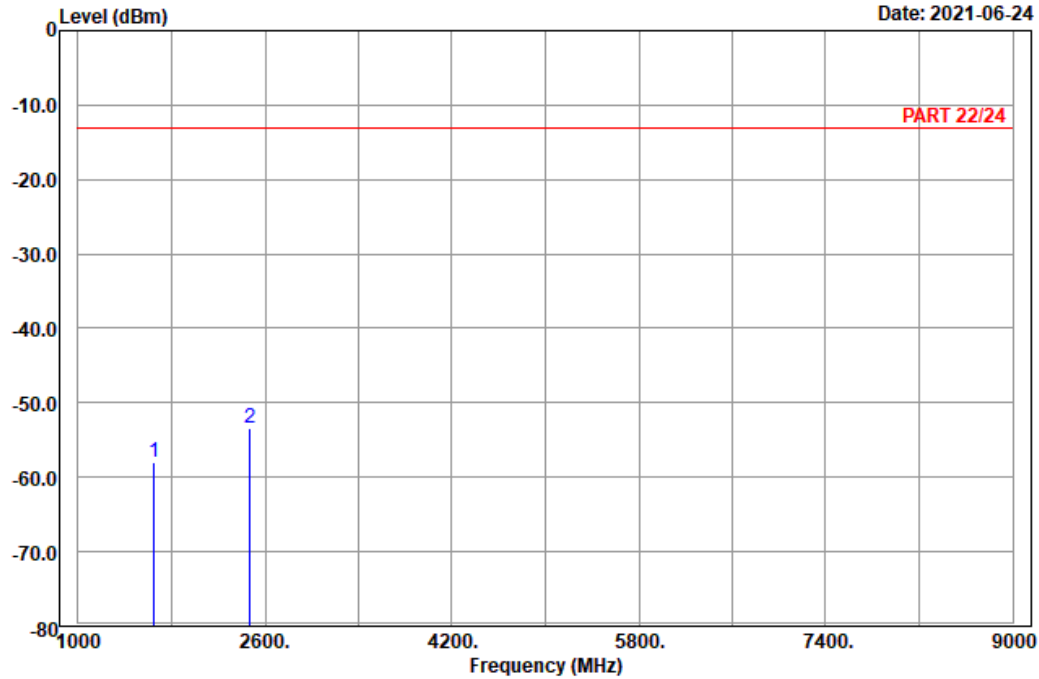


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-24



Site : 966 chamber 1  
Condition: PART 22/24 Vertical  
Remark : LTE\_Band 26\_Link\_L-Ch  
Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
|      | MHz     | dBm    | dBm        | dBm        | dB         | dB     |        |
| 1    | 1649.40 | -57.99 | -65.72     | -13.00     | -44.99     | 7.73   | Peak   |
| 2 pp | 2474.10 | -53.47 | -64.50     | -13.00     | -40.47     | 11.03  | Peak   |

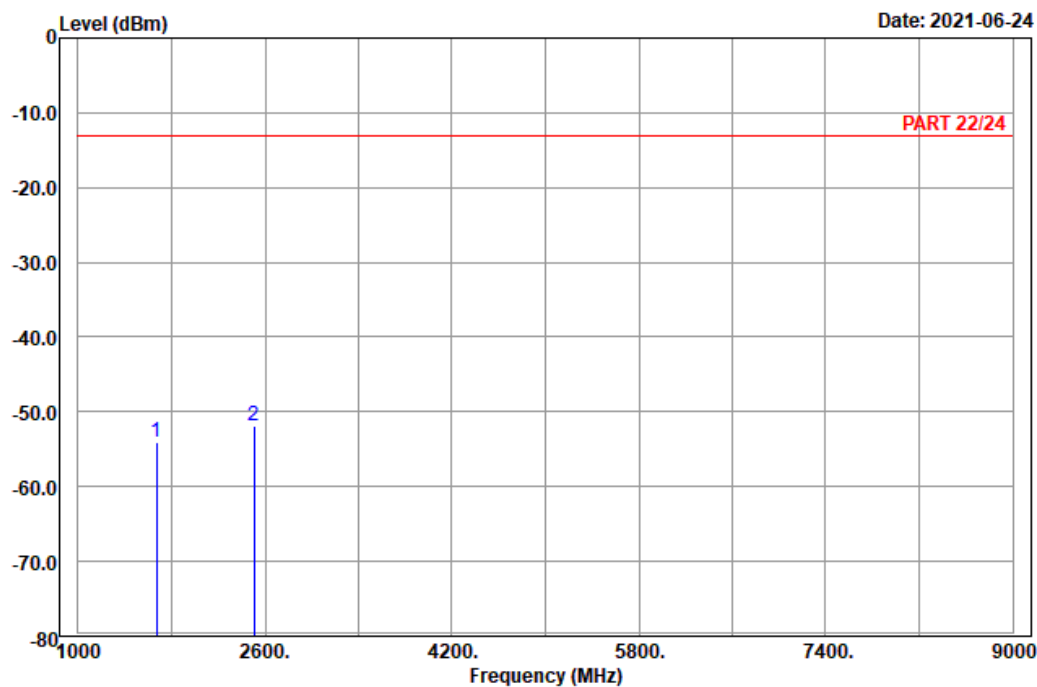
## Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 26\_Link\_M-Ch  
 Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1673.00 | -54.08 | -61.99     | 7.91   | -13.00     | -41.08     | Peak   |
| 2 pp | 2509.50 | -51.97 | -63.25     | 11.28  | -13.00     | -38.97     | Peak   |

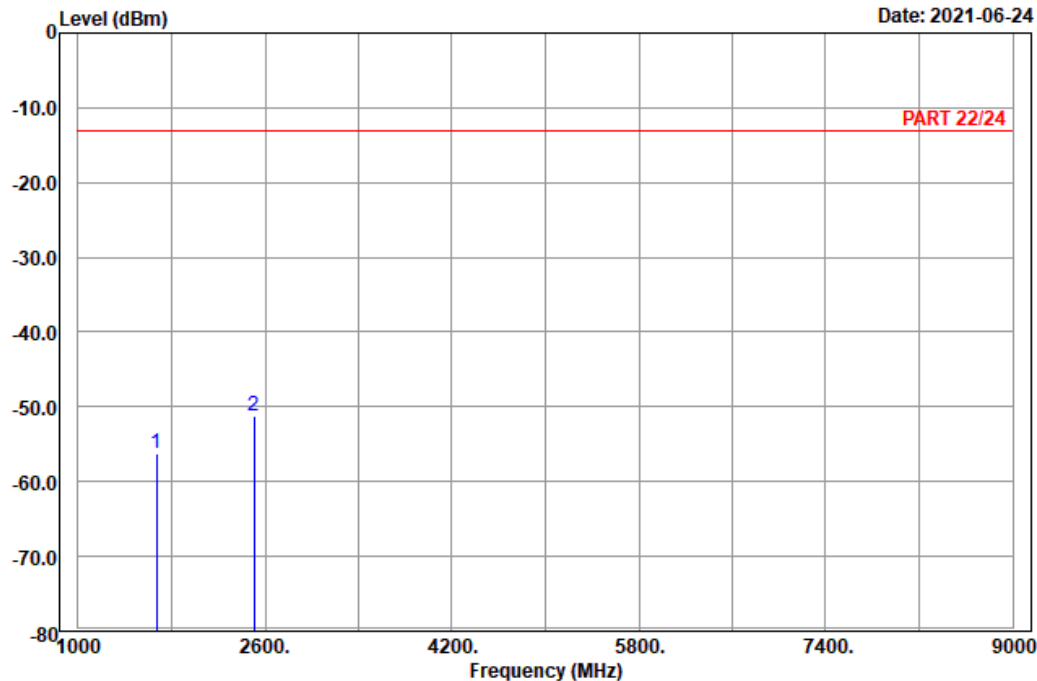


# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-24



Site : 966 chamber 1  
Condition: PART 22/24 Vertical  
Remark : LTE\_Band 26\_Link\_M-Ch  
Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1673.00 | -56.32 | -64.23     | 7.91   | -13.00     | -43.32     | Peak   |
| 2 pp | 2509.50 | -51.30 | -62.58     | 11.28  | -13.00     | -38.30     | Peak   |

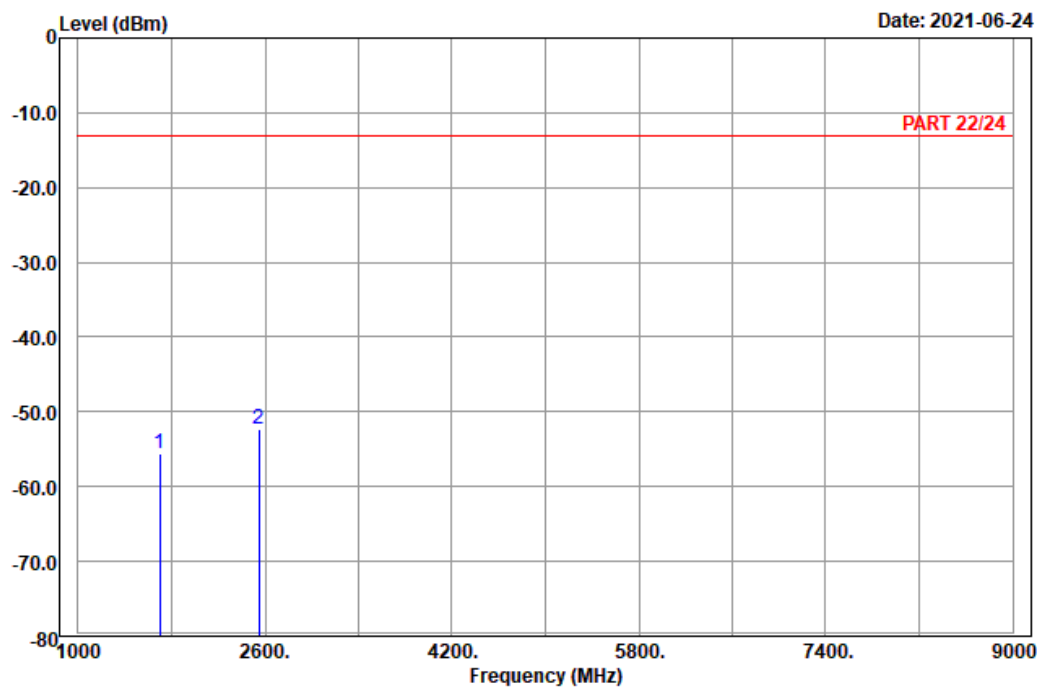
## High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 26\_Link\_H-Ch  
 Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1696.60 | -55.59 | -63.73     | 8.14   | -13.00     | -42.59     | Peak   |
| 2 pp | 2544.90 | -52.37 | -63.84     | 11.47  | -13.00     | -39.37     | Peak   |

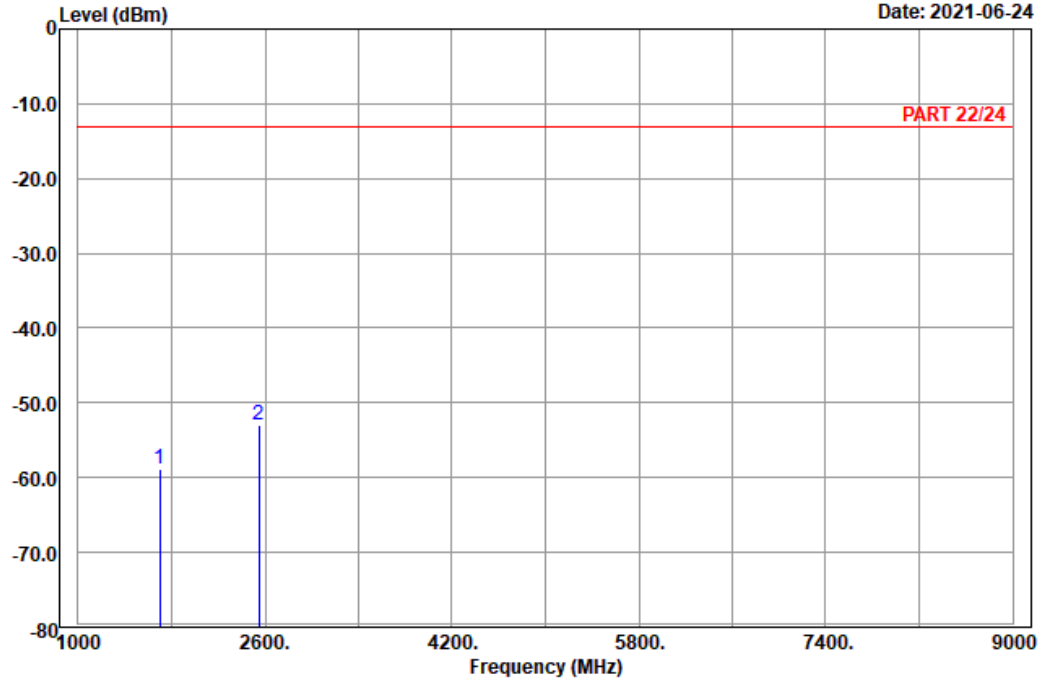


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-24



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 26\_Link\_H-Ch

Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1696.60 | -58.92 | -67.06        | 8.14   | -13.00        | -45.92        | Peak   |
| 2 pp | 2544.90 | -53.07 | -64.54        | 11.47  | -13.00        | -40.07        | Peak   |



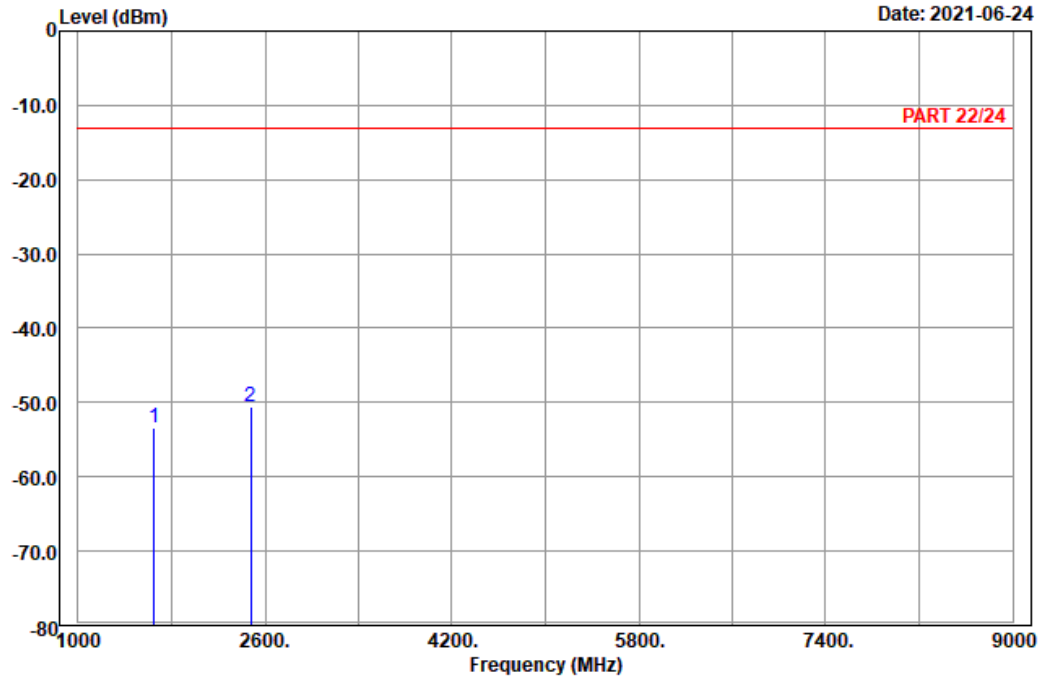
Channel Bandwidth: 5 MHz / QPSK  
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
Condition: PART 22/24 Horizontal  
Remark : LTE\_Band 26\_Link\_L-Ch  
Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1653.00 | -53.38 | -61.11        | 7.73   | -13.00        | -40.38        | Peak   |
| 2 pp | 2479.50 | -50.58 | -61.61        | 11.03  | -13.00        | -37.58        | Peak   |

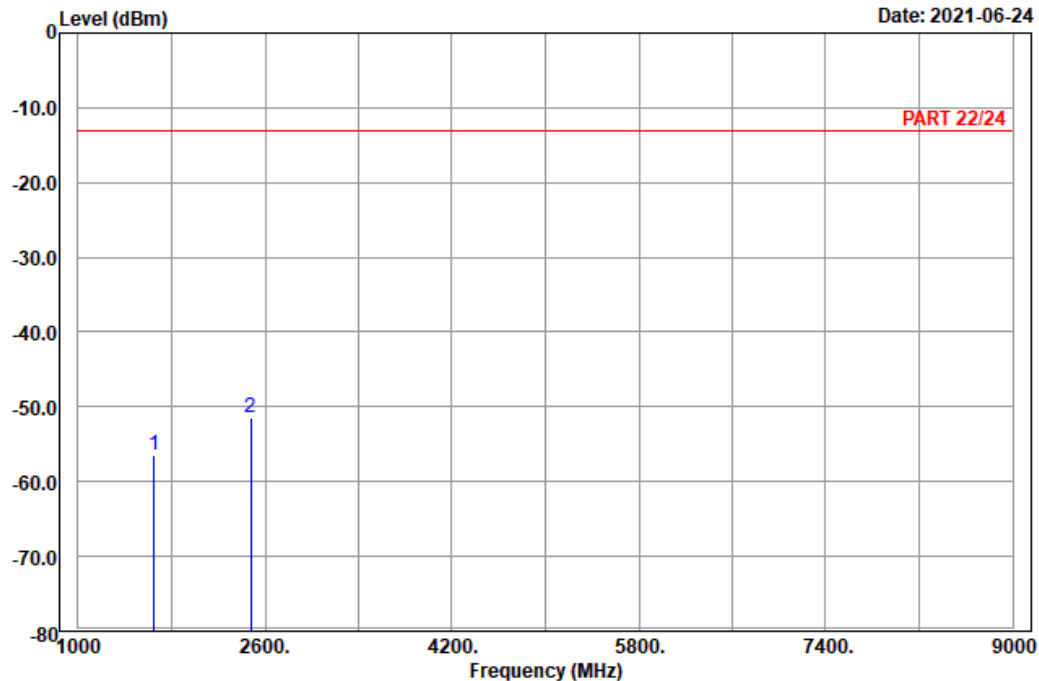


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-24



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 26\_Link\_L-Ch

Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1653.00 | -56.44 | -64.17     | 7.73   | -13.00     | -43.44     | Peak   |
| 2 pp | 2479.50 | -51.45 | -62.48     | 11.03  | -13.00     | -38.45     | Peak   |

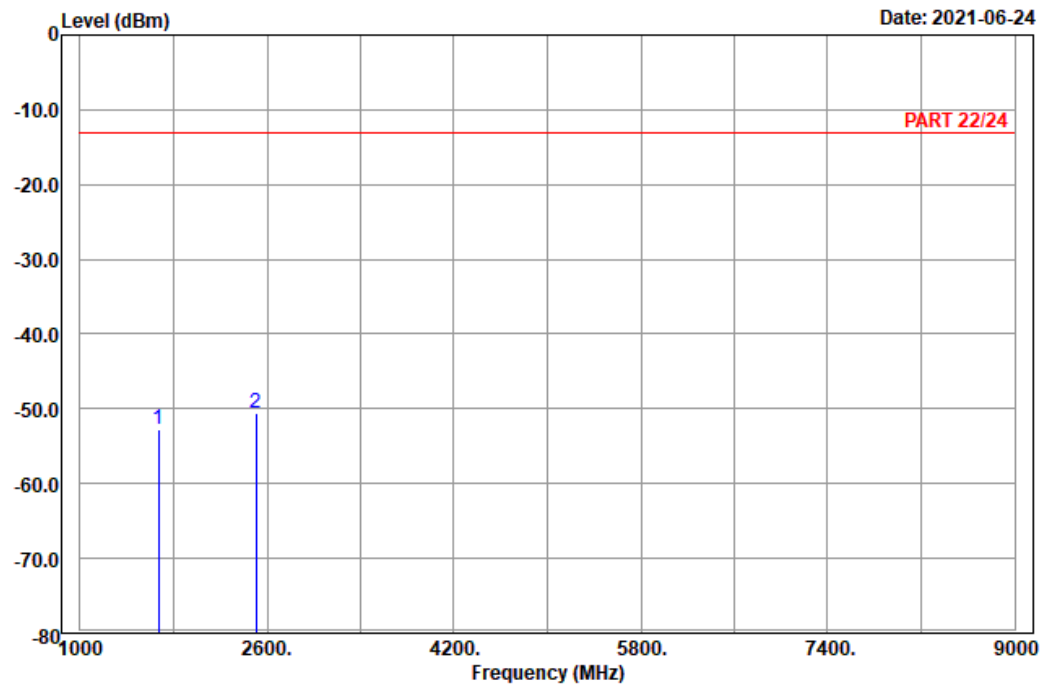
## Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 26\_Link\_M-Ch  
 Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1673.00 | -52.75 | -60.66     | 7.91   | -13.00     | -39.75     | Peak   |
| 2 pp | 2509.50 | -50.47 | -61.75     | 11.28  | -13.00     | -37.47     | Peak   |

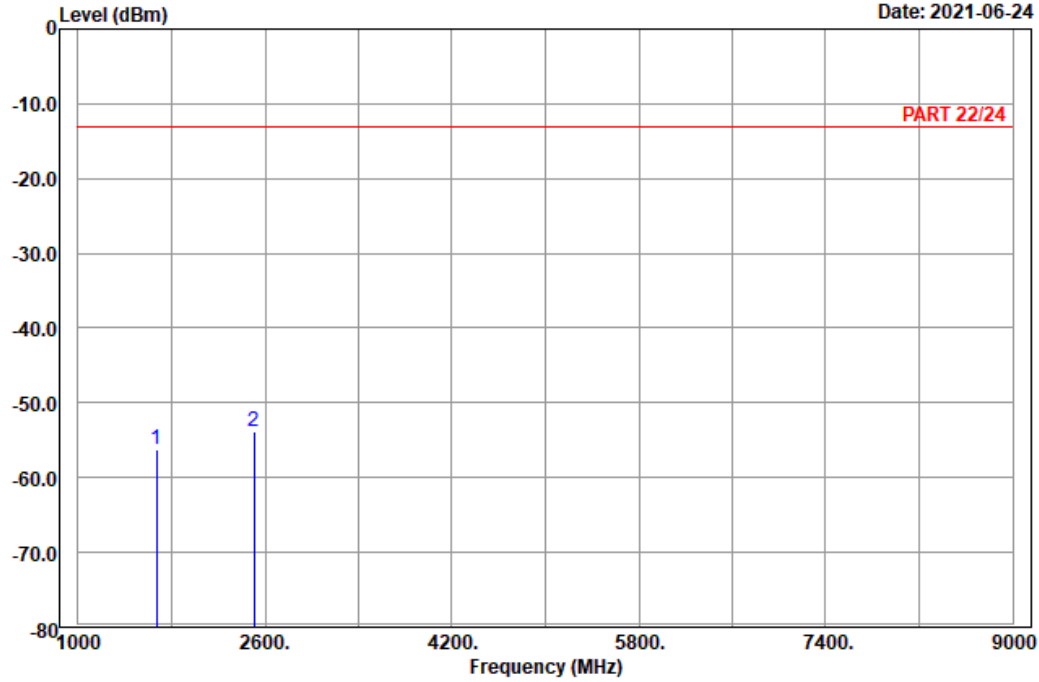


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-24



Site : 966 chamber 1  
Condition: PART 22/24 Vertical  
Remark : LTE\_Band 26\_Link\_M-Ch  
Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1673.00 | -56.22 | -64.13        | 7.91   | -13.00        | -43.22        | Peak   |
| 2 pp | 2509.50 | -53.94 | -65.22        | 11.28  | -13.00        | -40.94        | Peak   |

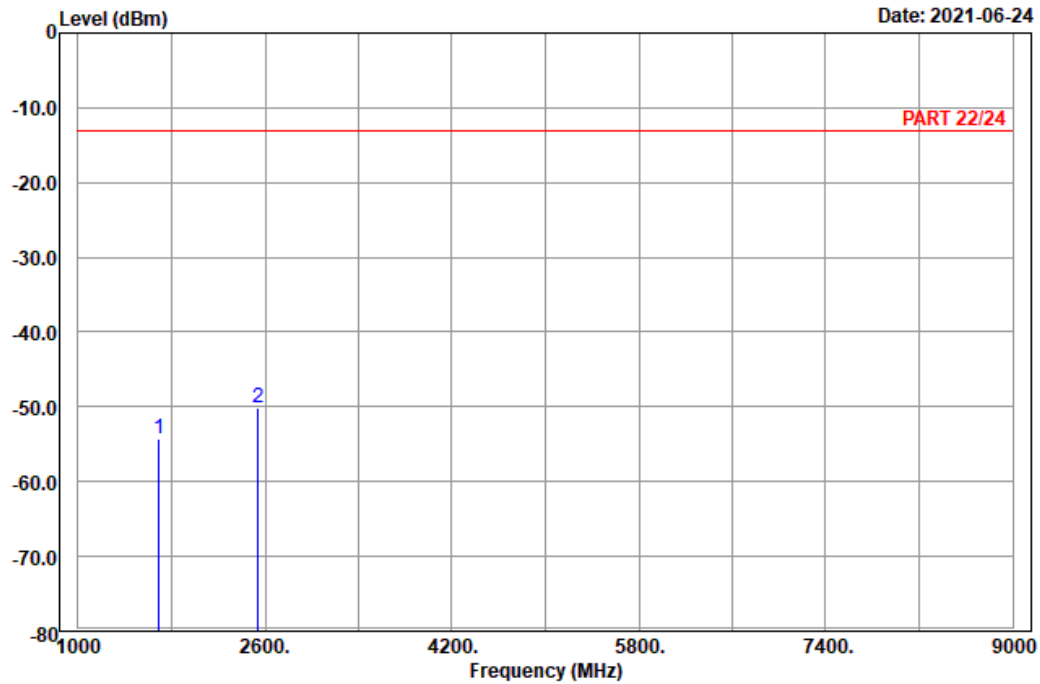
## High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 26\_Link\_H-Ch  
 Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1693.00 | -54.21 | -62.23        | 8.02   | -13.00        | -41.21        | Peak   |
| 2 pp | 2539.50 | -50.23 | -61.70        | 11.47  | -13.00        | -37.23        | Peak   |

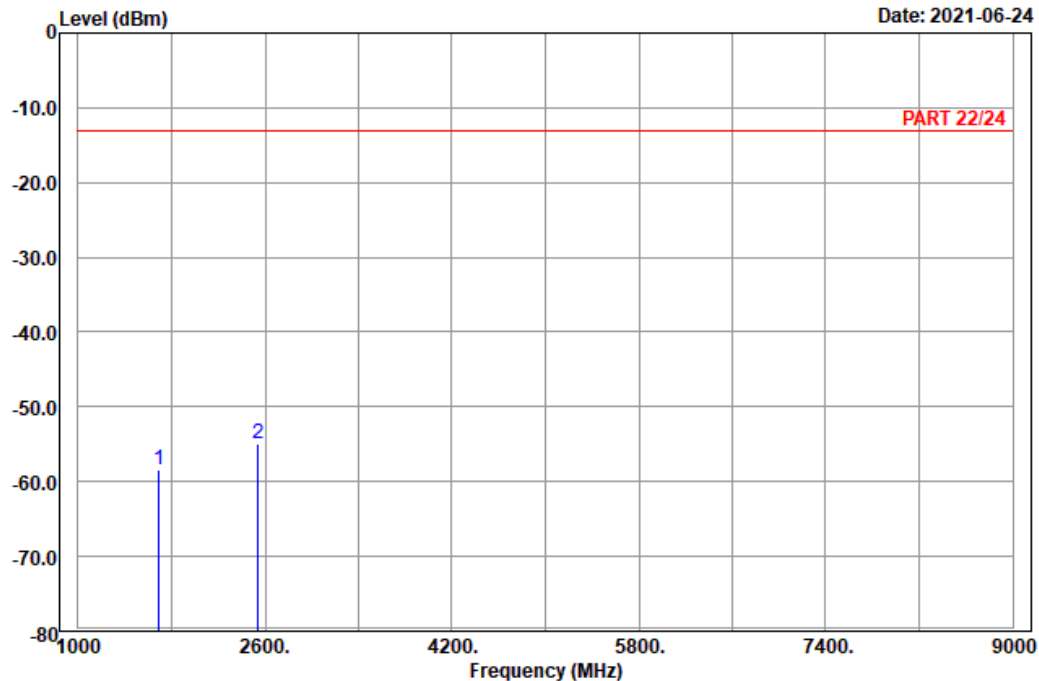


# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-24



Site : 966 chamber 1  
Condition: PART 22/24 Vertical  
Remark : LTE\_Band 26\_Link\_H-Ch  
Tested by: Karl Lee

|   | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|---|---------|--------|------------|--------|------------|------------|--------|
|   | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1 | 1693.00 | -58.39 | -66.41     | 8.02   | -13.00     | -45.39     | Peak   |
| 2 | 2539.50 | -54.95 | -66.42     | 11.47  | -13.00     | -41.95     | Peak   |

Channel Bandwidth: 15 MHz / QPSK  
Low Channel

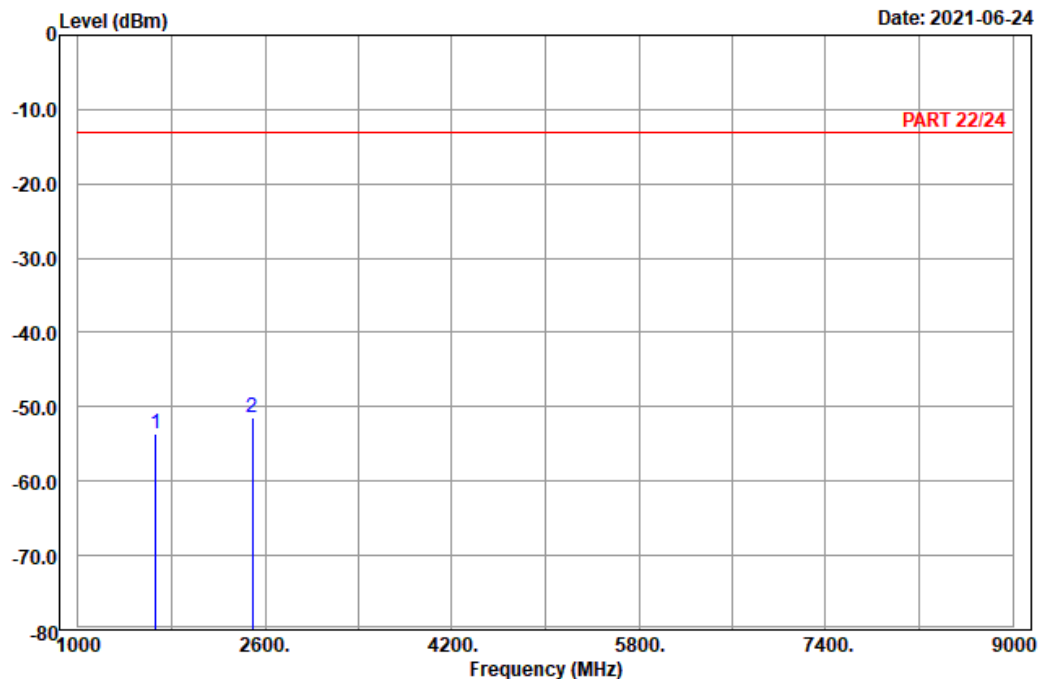


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2021-06-24



Site : 966 chamber 1  
Condition: PART 22/24 Horizontal  
Remark : LTE\_Band 26\_Link\_L-Ch  
Tested by: Karl Lee

|      | Freq    | Level  | Read Level | Factor | Limit Line | Over Limit | Remark |
|------|---------|--------|------------|--------|------------|------------|--------|
|      | MHz     | dBm    | dBm        | dB     | dBm        | dB         |        |
| 1    | 1663.00 | -53.70 | -61.61     | 7.91   | -13.00     | -40.70     | Peak   |
| 2 pp | 2494.50 | -51.52 | -62.56     | 11.04  | -13.00     | -38.52     | Peak   |

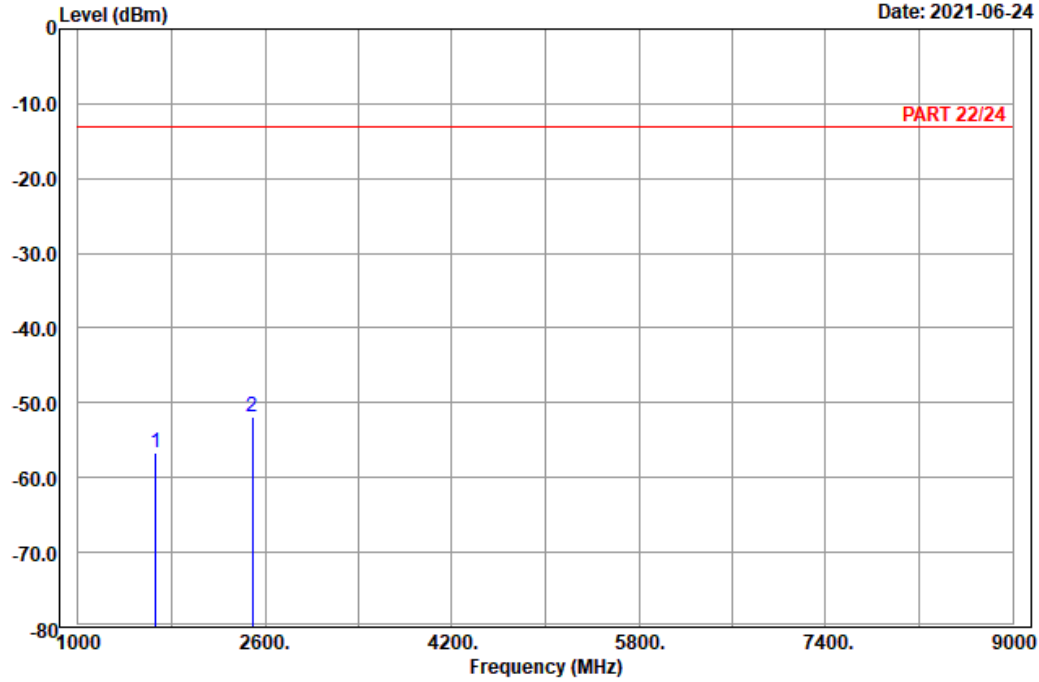


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-24



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 26\_Link\_L-Ch

Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1663.00 | -56.77 | -64.68        | 7.91   | -13.00        | -43.77        | Peak   |
| 2 pp | 2494.50 | -51.97 | -63.01        | 11.04  | -13.00        | -38.97        | Peak   |



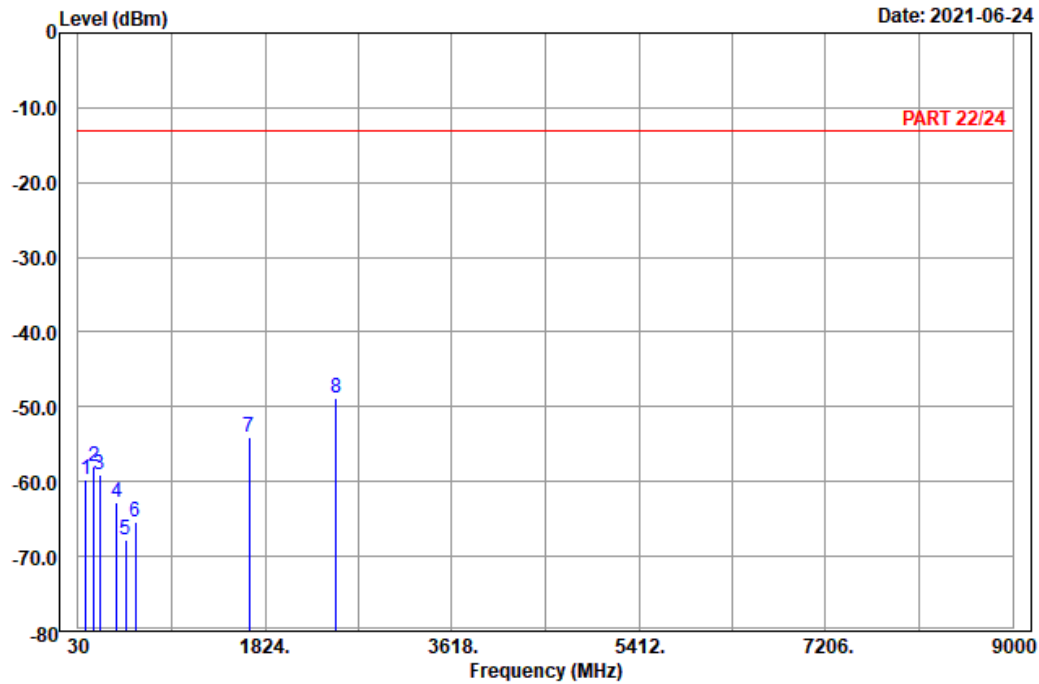
# Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 chamber 1  
Condition: PART 22/24 Horizontal  
Remark : LTE\_Band 26\_Link\_M-Ch  
Tested by: Karl Lee

|      |         | Read   | Limit  | Over  |                    |
|------|---------|--------|--------|-------|--------------------|
| Freq | Level   | Level  | Factor | Line  | Limit Remark       |
| MHz  | dBm     | dBm    | dB     | dBm   | dB                 |
| 1    | 106.14  | -59.69 | -50.27 | -9.42 | -13.00 -46.69 Peak |
| 2    | 185.52  | -57.98 | -52.33 | -5.65 | -13.00 -44.98 Peak |
| 3    | 237.36  | -59.16 | -53.48 | -5.68 | -13.00 -46.16 Peak |
| 4    | 401.50  | -62.68 | -59.90 | -2.78 | -13.00 -49.68 Peak |
| 5    | 486.20  | -67.81 | -62.94 | -4.87 | -13.00 -54.81 Peak |
| 6    | 582.80  | -65.42 | -65.12 | -0.30 | -13.00 -52.42 Peak |
| 7    | 1673.00 | -54.02 | -61.93 | 7.91  | -13.00 -41.02 Peak |
| 8 pp | 2509.50 | -48.79 | -60.07 | 11.28 | -13.00 -35.79 Peak |

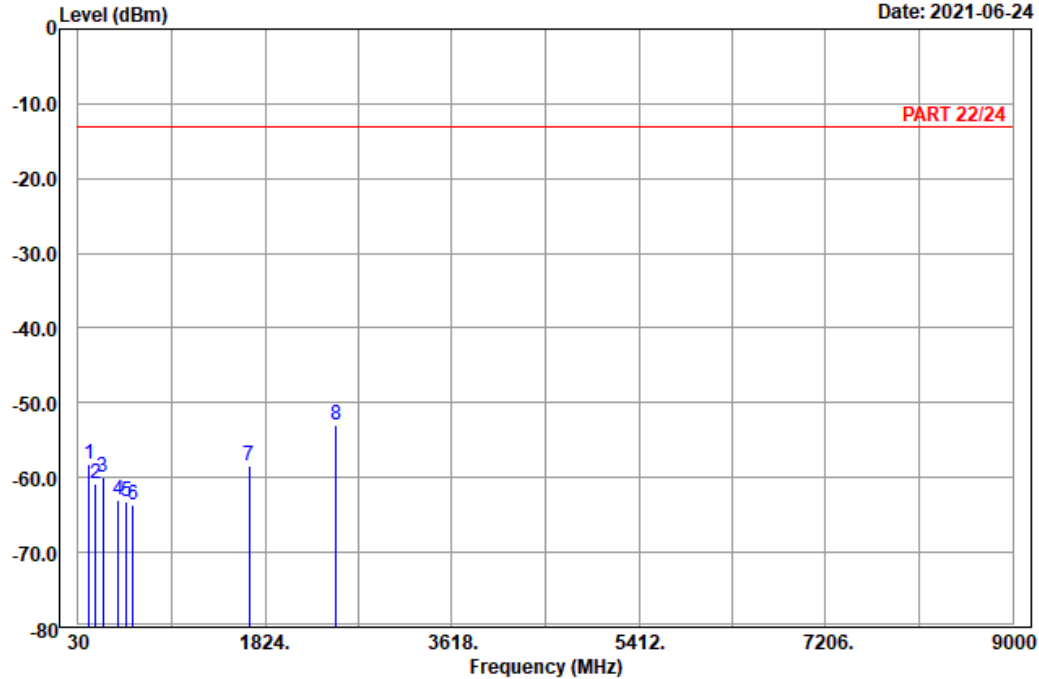


# Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2021-06-24



Site : 966 chamber 1  
Condition: PART 22/24 Vertical  
Remark : LTE\_Band 26\_Link\_M-Ch  
Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 134.22  | -58.13 | -50.47        | -7.66  | -13.00        | -45.13        | Peak   |
| 2    | 197.40  | -60.83 | -54.74        | -6.09  | -13.00        | -47.83        | Peak   |
| 3    | 266.25  | -59.93 | -54.27        | -5.66  | -13.00        | -46.93        | Peak   |
| 4    | 414.10  | -63.01 | -59.95        | -3.06  | -13.00        | -50.01        | Peak   |
| 5    | 496.00  | -63.13 | -57.99        | -5.14  | -13.00        | -50.13        | Peak   |
| 6    | 552.70  | -63.55 | -62.01        | -1.54  | -13.00        | -50.55        | Peak   |
| 7    | 1673.00 | -58.33 | -66.24        | 7.91   | -13.00        | -45.33        | Peak   |
| 8 pp | 2509.50 | -52.90 | -64.18        | 11.28  | -13.00        | -39.90        | Peak   |

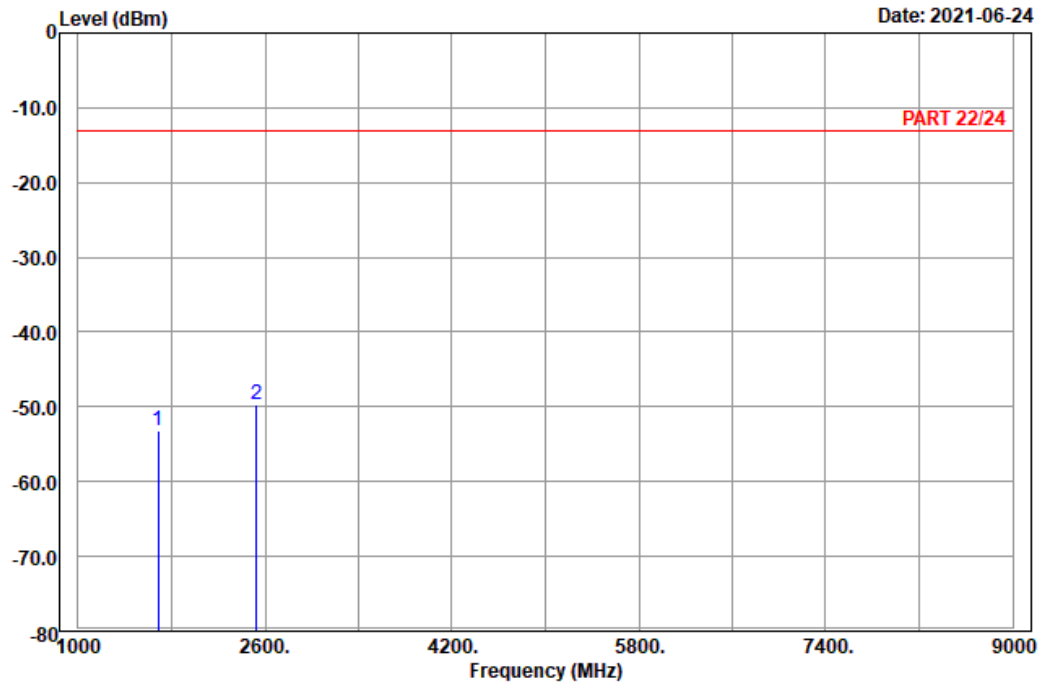
## High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1  
 Condition: PART 22/24 Horizontal  
 Remark : LTE\_Band 26\_Link\_H-Ch  
 Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1683.00 | -53.18 | -61.20        | 8.02   | -13.00        | -40.18        | Peak   |
| 2 pp | 2524.50 | -49.62 | -61.00        | 11.38  | -13.00        | -36.62        | Peak   |

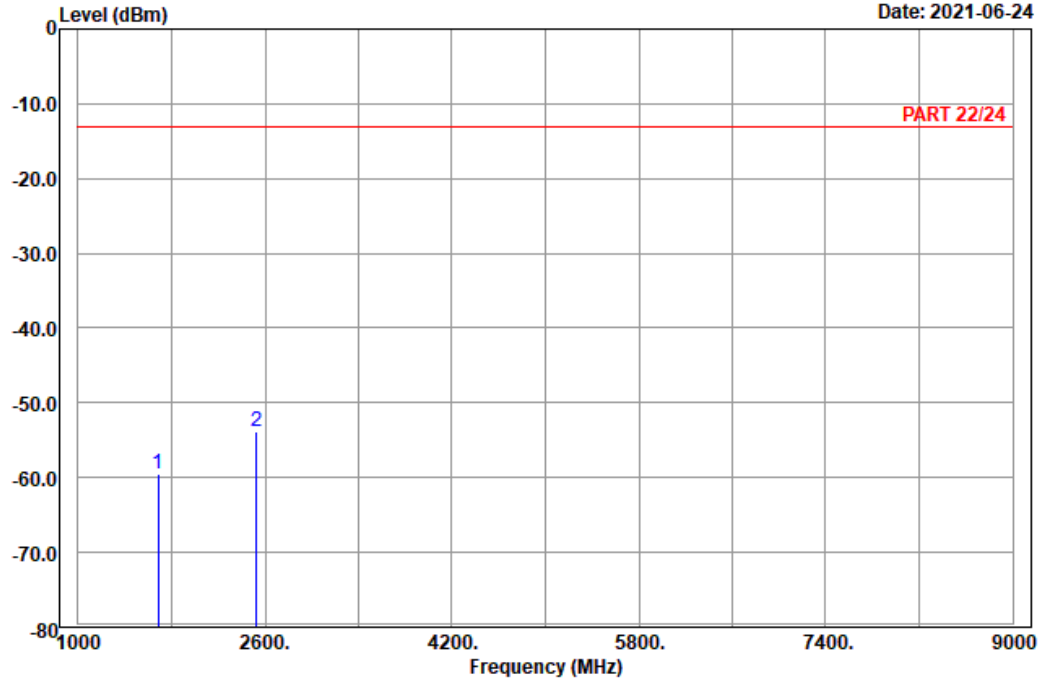


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2021-06-24



Site : 966 chamber 1

Condition: PART 22/24 Vertical

Remark : LTE\_Band 26\_Link\_H-Ch

Tested by: Karl Lee

|      | Freq    | Level  | Read<br>Level | Factor | Limit<br>Line | Over<br>Limit | Remark |
|------|---------|--------|---------------|--------|---------------|---------------|--------|
|      | MHz     | dBm    | dBm           | dB     | dBm           | dB            |        |
| 1    | 1683.00 | -59.61 | -67.63        | 8.02   | -13.00        | -46.61        | Peak   |
| 2 pp | 2524.50 | -53.79 | -65.17        | 11.38  | -13.00        | -40.79        | Peak   |

## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

## Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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