

# FCC TEST REPORT

## (PART 24)

**REPORT NO.:** RF131114C03-1

**MODEL NO.:** C6730

**FCC ID:** V65C6730

**RECEIVED:** Nov. 14, 2013

**TESTED:** Nov. 29, 2013 ~ Feb. 14, 2014

**ISSUED:** Feb. 24, 2014

**APPLICANT:** Kyocera Communications, Inc. c/o Kyocera Corporation

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**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New  
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**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei  
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A D T

## RELEASE CONTROL RECORD

| ISSUE NO.     | REASON FOR CHANGE | DATE ISSUED   |
|---------------|-------------------|---------------|
| RF131114C03-1 | Original release  | Feb. 24, 2014 |

## 1 CERTIFICATION

**PRODUCT:** Kyocera phone

**MODEL:** C6730

**BRAND:** Kyocera

**APPLICANT:** Kyocera Communications, Inc. c/o Kyocera Corporation

**TESTED:** Nov. 29, 2013 ~ Feb. 14, 2014

**TEST SAMPLE:** Identical Prototype

**STANDARDS:** FCC Part 24, Subpart E

The above equipment (model: C6730) 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 EMC characteristics under the conditions specified in this report.

**PREPARED BY** : Vera Huang , **DATE** : Feb. 24, 2014

Vera Huang / Specialist

**APPROVED BY** : Sam chen , **DATE** : Feb. 24, 2014

Sam Chen / Senior Project Engineer

## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 24 & Part 2 |                                         |        |                                                                                     |
|----------------------------------------|-----------------------------------------|--------|-------------------------------------------------------------------------------------|
| STANDARD SECTION                       | TEST TYPE                               | RESULT | REMARK                                                                              |
| 2.1046<br>24.232                       | Equivalent isotropically radiated power | PASS   | Meet the requirement of limit.                                                      |
| 2.1055<br>24.235                       | Frequency Stability                     | PASS   | Meet the requirement of limit.                                                      |
| 2.1049<br>24.238(b)                    | Occupied Bandwidth                      | PASS   | Meet the requirement of limit.                                                      |
| 24.232(d)                              | Peak to average ratio                   | PASS   | Meet the requirement of limit.                                                      |
| 24.238(b)                              | Band Edge Measurements                  | PASS   | Meet the requirement of limit.                                                      |
| 2.1051<br>24.238                       | Conducted Spurious Emissions            | PASS   | Meet the requirement of limit.                                                      |
| 2.1053<br>24.238                       | Radiated Spurious Emissions             | PASS   | Meet the requirement of limit.<br>Minimum passing margin is -27.50dB at 5647.50MHz. |

### 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       | UNCERTAINTY |
|---------------------|-----------------|-------------|
| Conducted emissions | 150kHz~30MHz    | 2.44 dB     |
| Radiated emissions  | 30MHz ~ 200MHz  | 2.93 dB     |
|                     | 200MHz ~1000MHz | 2.95 dB     |
|                     | 1GHz ~ 18GHz    | 2.26 dB     |
|                     | 18GHz ~ 40GHz   | 1.94 dB     |

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

## 2.2 TEST SITE AND INSTRUMENTS

| DESCRIPTION & MANUFACTURER                     | MODEL NO.      | SERIAL NO.          | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|------------------------------------------------|----------------|---------------------|---------------------|-------------------------|
| Test Receiver<br>ROHDE & SCHWARZ               | ESCI           | 100744              | Apr. 15, 2013       | Apr. 14, 2014           |
| Spectrum Analyzer<br>Agilent                   | E4446A         | MY51100039          | Jul. 31, 2013       | Jul. 30, 2014           |
| BILOG Antenna<br>SCHWARZBECK                   | VULB9168       | 9168-472            | Mar. 25, 2013       | Mar. 24, 2014           |
| HORN Antenna<br>SCHWARZBECK                    | BBHA 9120 D    | 9120D- 209          | Sep. 12, 2013       | Sep. 11, 2014           |
| HORN Antenna<br>SCHWARZBECK                    | BBHA 9170      | 9170-480            | Dec. 25, 2012       | Dec. 24, 2013           |
| HORN Antenna<br>SCHWARZBECK                    | BBHA 9170      | 9170-480            | Dec. 18, 2013       | Dec. 17, 2014           |
| Loop Antenna                                   | 3127-836       | 00099258            | Aug. 09, 2013       | Aug. 08, 2014           |
| Preamplifier<br>EMCI                           | EMC 330H       | 980112              | Dec. 28, 2012       | Dec. 27, 2013           |
| Preamplifier<br>EMCI                           | EMC 330H       | 980112              | Dec. 27, 2013       | Dec. 26, 2014           |
| RF signal cable<br>HUBER+SUHNNER               | SUCOFLEX 104   | 309219/4<br>2950114 | Oct. 18, 2013       | Oct. 17, 2014           |
| RF signal cable<br>HUBER+SUHNNER               | SUCOFLEX 104   | 250130/4            | Oct. 18, 2013       | Oct. 17, 2014           |
| RF signal cable<br>Worken                      | RG-213         | NA                  | Nov. 07, 2013       | Nov. 06, 2014           |
| Software<br>BV ADT                             | E3<br>6.120103 | NA                  | NA                  | NA                      |
| Antenna Tower<br>MF                            | MFA-440H       | NA                  | NA                  | NA                      |
| Turn Table<br>MF                               | MFT-201SS      | NA                  | NA                  | NA                      |
| Antenna Tower & Turn Table<br>Controller<br>MF | MF-7802        | NA                  | NA                  | NA                      |
| Mini-Circuits Power Splitter                   | ZN2PD-9G       | NA                  | Jul. 18, 2013       | Jul. 17, 2014           |
| JFW 20dB attenuation                           | 50HF-020-SMA   | NA                  | NA                  | NA                      |
| Communications<br>Tester-Wireless              | E5515C         | MY52102544          | Sep. 05, 2012       | Sep. 04, 2014           |
| Radio Communication<br>Analyzer                | MT8820C        | 6201300640          | Aug. 01, 2013       | Jul. 31, 2014           |

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 690701.
5. The IC Site Registration No. is IC 7450F-10.

### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                            |                                                                                                                       |                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>EUT</b>                 | Kyocera phone                                                                                                         |                         |
| <b>MODEL NO.</b>           | C6730                                                                                                                 |                         |
| <b>POWER SUPPLY</b>        | 5.0Vdc (adapter or host equipment)<br>3.8Vdc (battery)                                                                |                         |
| <b>MODULATION TYPE</b>     | <b>CDMA</b>                                                                                                           | QPSK, OQPSK, HPSK       |
|                            | <b>LTE Band 25</b>                                                                                                    | QPSK, 16QAM             |
| <b>FREQUENCY RANGE</b>     | <b>CDMA</b>                                                                                                           | 1851.25MHz ~ 1908.75MHz |
|                            | <b>LTE Band 25 (Channel Bandwidth: 3MHz)</b>                                                                          | 1851.5MHz ~ 1913.5MHz   |
|                            | <b>LTE Band 25 (Channel Bandwidth: 5MHz)</b>                                                                          | 1852.5MHz ~ 1912.5MHz   |
|                            | <b>LTE Band 25 (Channel Bandwidth: 10MHz)</b>                                                                         | 1855MHz ~ 1910MHz       |
| <b>MAX. EIRP POWER</b>     | <b>CDMA</b>                                                                                                           | 231.31mW                |
|                            | <b>LTE Band 25 (Channel Bandwidth: 3MHz)</b>                                                                          | 172.19mW                |
|                            | <b>LTE Band 25 (Channel Bandwidth: 5MHz)</b>                                                                          | 172.98mW                |
|                            | <b>LTE Band 25 (Channel Bandwidth: 10MHz)</b>                                                                         | 169.82mW                |
| <b>EMISSION DESIGNATOR</b> | <b>CDMA</b>                                                                                                           | 1M27F9W                 |
|                            | <b>LTE Band 25 (Channel Bandwidth: 3MHz)</b>                                                                          | 2M68G7D                 |
|                            | <b>LTE Band 25 (Channel Bandwidth: 5MHz)</b>                                                                          | 4M49G7D                 |
|                            | <b>LTE Band 25 (Channel Bandwidth: 10MHz)</b>                                                                         | 8M92W7D                 |
| <b>ANTENNA TYPE</b>        | <b>CDMA:</b> Fixed Internal Antenna with -1.5dBi gain<br><b>LTE Band 25:</b> Fixed Internal Antenna with -1.5dBi gain |                         |
| <b>I/O PORTS</b>           | Refer to users' manual                                                                                                |                         |
| <b>DATA CABLE</b>          | Refer to NOTE as below                                                                                                |                         |
| <b>ACCESSORY DEVICES</b>   | Refer to NOTE as below                                                                                                |                         |

#### NOTE:

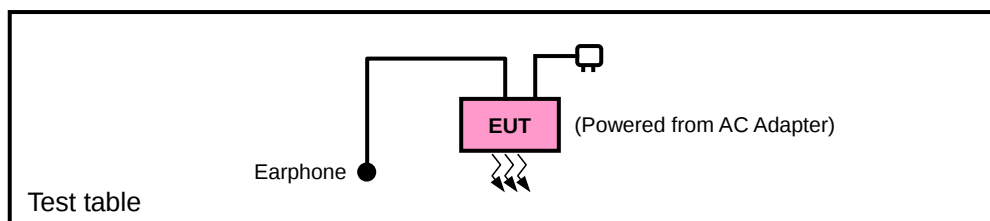
1. The EUT has following accessories.

| ITEM           | BRAND   | MODEL      | DESCRIPTION                                          |
|----------------|---------|------------|------------------------------------------------------|
| AC Adapter     | Kyocera | SCP-42ADT  | I/P: 100-240Vac, 50/60Hz, 200mA<br>O/P: 5Vdc, 1000mA |
| Li-ion Battery | Kyocera | SCP-59LBPS | Rating: 3.8Vdc, 2000mAh                              |
| USB cable      | Kyocera | SCP-11SDC  | 1.2m non-shielded cable w/o ferrite core             |

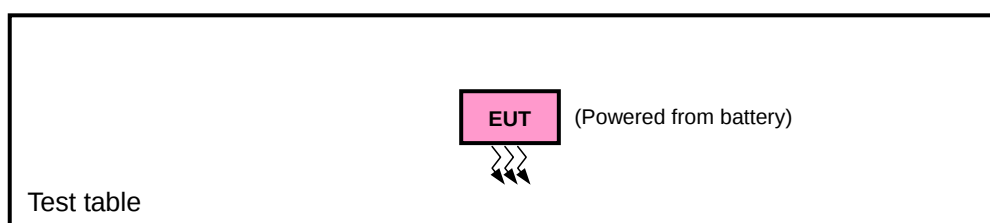
2. The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

## 3.2 CONFIGURATION OF SYSTEM UNDER TEST

### FOR RADIATION EMISSION TEST



### FOR E.I.R.P. TEST



## 3.3 DESCRIPTION OF SUPPORT UNITS

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

| NO. | PRODUCT  | BRAND  | MODEL NO. | SERIAL NO. | FCC ID |
|-----|----------|--------|-----------|------------|--------|
| 1   | EARPHONE | GALIEN | HF-HB04D  | N/A        | 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.

### 3.4 TEST ITEM AND TEST CONFIGURATION

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 on Y-plane for CDMA and X-plane for LTE for EIRP, and Y-axis for CDMA and X-axis for LTE for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

#### CDMA MODE

| EUT CONFIGURE MODE | TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL | MODE  |
|--------------------|-----------------------|-------------------|----------------|-------|
| -                  | EIRP                  | 25 to 1175        | 25, 600, 1175  | 1xRTT |
| -                  | FREQUENCY STABILITY   | 25 to 1175        | 600            | 1xRTT |
| -                  | OCCUPIED BANDWIDTH    | 25 to 1175        | 25, 600, 1175  | 1xRTT |
| -                  | PEAK TO AVERAGE RATIO | 25 to 1175        | 25, 600, 1175  | 1xRTT |
| -                  | BAND EDGE             | 25 to 1175        | 25, 1175       | 1xRTT |
| -                  | CONDCUDED EMISSION    | 25 to 1175        | 600            | 1xRTT |
| -                  | RADIATED EMISSION     | 25 to 1175        | 600            | 1xRTT |

## LTE BAND 25 MODE

| EUT CONFIGURE MODE | TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION   | MODE                |
|--------------------|-----------------------|-------------------|---------------------|-------------------|--------------|---------------------|
| -                  | EIRP                  | 26055 to 26675    | 26055, 26365, 26675 | 3MHz              | QPSK / 16QAM | 1 RB / 7 RB Offset  |
|                    |                       | 26065 to 26665    | 26065, 26365, 26665 | 5MHz              | QPSK / 16QAM | 1 RB / 12 RB Offset |
|                    |                       | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | QPSK / 16QAM | 1 RB / 24 RB Offset |
| -                  | FREQUENCY STABILITY   | 26055 to 26675    | 26365               | 3MHz              | QPSK         | 1 RB / 7 RB Offset  |
|                    |                       | 26065 to 26665    | 26365               | 5MHz              | QPSK         | 1 RB / 12 RB Offset |
|                    |                       | 26090 to 26640    | 26365               | 10MHz             | QPSK         | 1 RB / 24 RB Offset |
| -                  | OCCUPIED BANDWIDTH    | 26055 to 26675    | 26055, 26365, 26675 | 3MHz              | QPSK / 16QAM | 15 RB / 0 RB Offset |
|                    |                       | 26065 to 26665    | 26065, 26365, 26665 | 5MHz              | QPSK / 16QAM | 25 RB / 0 RB Offset |
|                    |                       | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | QPSK / 16QAM | 50 RB / 0 RB Offset |
| -                  | PEAK TO AVERAGE RATIO | 26055 to 26675    | 26055, 26365, 26675 | 3MHz              | QPSK / 16QAM | 1 RB / 7 RB Offset  |
|                    |                       | 26065 to 26665    | 26065, 26365, 26665 | 5MHz              | QPSK / 16QAM | 1 RB / 12 RB Offset |
|                    |                       | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | QPSK / 16QAM | 1 RB / 24 RB Offset |
| -                  | BAND EDGE             | 26055 to 26675    | 26055               | 3MHz              | QPSK         | 1 RB / 0 RB Offset  |
|                    |                       |                   |                     |                   |              | 15 RB / 0 RB Offset |
|                    |                       | 26065 to 26665    | 26675               | 3MHz              | QPSK         | 1 RB / 14 RB Offset |
|                    |                       |                   |                     |                   |              | 15 RB / 0 RB Offset |
|                    |                       | 26090 to 26640    | 26065               | 5MHz              | QPSK         | 1 RB / 0 RB Offset  |
|                    |                       |                   |                     |                   |              | 25 RB / 0 RB Offset |
|                    |                       | 26090 to 26640    | 26665               | 5MHz              | QPSK         | 1 RB / 24 RB Offset |
|                    |                       |                   |                     |                   |              | 25 RB / 0 RB Offset |
| -                  | CONDCUDED EMISSION    | 26055 to 26675    | 26365               | 3MHz              | QPSK         | 1 RB / 7 RB Offset  |
|                    |                       | 26065 to 26665    | 26365               | 5MHz              | QPSK         | 1 RB / 12 RB Offset |
|                    |                       | 26090 to 26640    | 26365               | 10MHz             | QPSK         | 1 RB / 24 RB Offset |
| -                  | RADIATED EMISSION     | 26055 to 26675    | 26365               | 3MHz              | QPSK         | 1 RB / 7 RB Offset  |
|                    |                       | 26065 to 26665    | 26365               | 5MHz              | QPSK         | 1 RB / 12 RB Offset |
|                    |                       | 26090 to 26640    | 26365               | 10MHz             | QPSK         | 1 RB / 24 RB Offset |

**Note:** This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

# TEST CONDITION:

| TEST ITEM           | ENVIRONMENTAL CONDITIONS | INPUT POWER  | TESTED BY  |
|---------------------|--------------------------|--------------|------------|
| EIRP                | 26deg. C, 58%RH          | 3.8Vdc       | Howard Kao |
| FREQUENCY STABILITY | 26deg. C, 58%RH          | 3.8Vdc       | Howard Kao |
| OCCUPIED BANDWIDTH  | 26deg. C, 58%RH          | 3.8Vdc       | Howard Kao |
| BAND EDGE           | 26deg. C, 58%RH          | 3.8Vdc       | Howard Kao |
| CONDCUDED EMISSION  | 26deg. C, 58%RH          | 3.8Vdc       | Howard Kao |
| RADIATED EMISSION   | 25deg. C, 65%RH          | 120Vac, 60Hz | Anson Lin  |

## 3.5 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

## 3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 24**

**ANSI/TIA/EIA-603-C 2004**

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

## 4 TEST TYPES AND RESULTS

### 4.1 OUTPUT POWER MEASUREMENT

#### 4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP

#### 4.1.2 TEST PROCEDURES

##### EIRP MEASUREMENT:

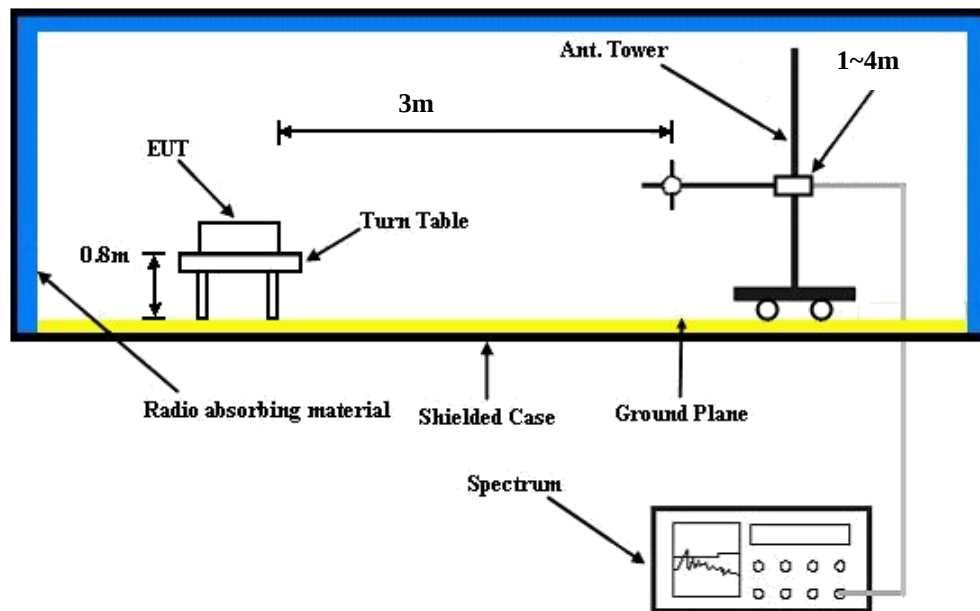
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5MHz for CDMA, and 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step b. Record the power level of S.G
- d.  $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

##### CONDUCTED POWER MEASUREMENT:

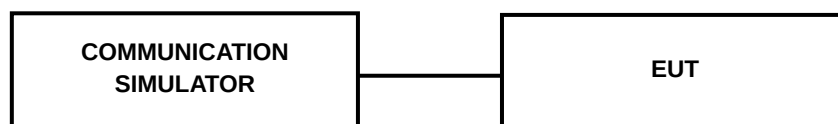
The EUT was set up for the maximum power with GSM, GPRS, EDGE & WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

### 4.1.3 TEST SETUP

#### EIRP / ERP MEASUREMENT:



#### CONDUCTED POWER MEASUREMENT:



#### 4.1.4 TEST RESULTS

##### CONDUCTED OUTPUT POWER (dBm)

| Band              | CDMA    |       |         |
|-------------------|---------|-------|---------|
| Channel           | 25      | 600   | 1175    |
| Frequency (MHz)   | 1851.25 | 1880  | 1908.75 |
| RC1+SO55          | 24.84   | 24.64 | 24.62   |
| RC3+SO55          | 24.85   | 24.65 | 24.63   |
| RC3+SO32(+ F-SCH) | 24.82   | 24.62 | 24.60   |
| RC3+SO32(+SCH)    | 24.80   | 24.60 | 24.58   |
| RTAP 153.6        | 24.78   | 24.58 | 24.56   |
| RETAP 4096        | 24.69   | 24.49 | 24.47   |

| Band / BW | Modulation | RB Size | RB Offset | Low CH 26055         | Mid CH 26365         | High CH 26675        | 3PGG MPR (dB) |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------|
|           |            |         |           | Frequency 1851.5 MHz | Frequency 1882.5 MHz | Frequency 1913.5 MHz |               |
| 25 / 3M   | QPSK       | 1       | 0         | 22.75                | 23.06                | 22.79                | 0             |
|           |            | 1       | 7         | 22.69                | 23.12                | 22.71                | 0             |
|           |            | 1       | 14        | 22.61                | 23.02                | 22.78                | 0             |
|           |            | 8       | 0         | 21.51                | 21.85                | 21.65                | 1             |
|           |            | 8       | 3         | 21.60                | 21.87                | 21.71                | 1             |
|           |            | 8       | 7         | 21.60                | 21.77                | 21.54                | 1             |
|           |            | 15      | 0         | 21.57                | 21.81                | 21.71                | 1             |
|           | 16QAM      | 1       | 0         | 21.65                | 21.96                | 21.69                | 1             |
|           |            | 1       | 7         | 21.59                | 22.02                | 21.61                | 1             |
|           |            | 1       | 14        | 21.51                | 21.92                | 21.59                | 1             |
|           |            | 8       | 0         | 20.62                | 20.75                | 20.66                | 2             |
|           |            | 8       | 3         | 20.57                | 20.77                | 20.62                | 2             |
|           |            | 8       | 7         | 20.51                | 20.67                | 20.55                | 2             |
|           |            | 15      | 0         | 20.58                | 20.71                | 20.63                | 2             |

| Band / BW | Modulation | RB Size | RB Offset | Low CH 26065         | Mid CH 26365         | High CH 26665        | 3PGG MPR (dB) |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------|
|           |            |         |           | Frequency 1852.5 MHz | Frequency 1882.5 MHz | Frequency 1912.5 MHz |               |
| 25 / 5M   | QPSK       | 1       | 0         | 22.87                | 23.18                | 22.91                | 0             |
|           |            | 1       | 12        | 22.81                | 23.24                | 22.83                | 0             |
|           |            | 1       | 24        | 22.73                | 23.14                | 22.61                | 0             |
|           |            | 12      | 0         | 21.63                | 21.97                | 21.60                | 1             |
|           |            | 12      | 6         | 21.60                | 21.99                | 21.55                | 1             |
|           |            | 12      | 13        | 21.53                | 21.89                | 21.66                | 1             |
|           |            | 25      | 0         | 21.58                | 21.93                | 21.60                | 1             |
|           | 16QAM      | 1       | 0         | 21.77                | 22.08                | 21.81                | 1             |
|           |            | 1       | 12        | 21.71                | 22.14                | 21.73                | 1             |
|           |            | 1       | 24        | 21.63                | 22.04                | 21.51                | 1             |
|           |            | 12      | 0         | 20.53                | 20.87                | 20.65                | 2             |
|           |            | 12      | 6         | 20.61                | 20.89                | 20.73                | 2             |
|           |            | 12      | 13        | 20.62                | 20.79                | 20.64                | 2             |
|           |            | 25      | 0         | 20.55                | 20.83                | 20.65                | 2             |



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| Band / BW | Modulation | RB Size | RB Offset | Low CH<br>26090         | Mid CH<br>26365         | High CH<br>26640        | 3PGG<br>MPR<br>(dB) |
|-----------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|---------------------|
|           |            |         |           | Frequency<br>1855.0 MHz | Frequency<br>1882.5 MHz | Frequency<br>1910.0 MHz |                     |
| 25 / 10M  | QPSK       | 1       | 0         | 22.98                   | 23.29                   | 23.02                   | 0                   |
|           |            | 1       | 24        | 22.92                   | <b>23.35</b>            | 22.94                   | 0                   |
|           |            | 1       | 49        | 22.84                   | 23.25                   | 22.72                   | 0                   |
|           |            | 25      | 0         | 21.74                   | 22.08                   | 21.71                   | 1                   |
|           |            | 25      | 12        | 21.71                   | 22.10                   | 21.66                   | 1                   |
|           |            | 25      | 25        | 21.64                   | 22.00                   | 21.77                   | 1                   |
|           |            | 50      | 0         | 21.69                   | 22.04                   | 21.71                   | 1                   |
|           | 16QAM      | 1       | 0         | 21.88                   | 22.19                   | 21.92                   | 1                   |
|           |            | 1       | 24        | 21.82                   | 22.25                   | 21.84                   | 1                   |
|           |            | 1       | 49        | 21.74                   | 22.15                   | 21.62                   | 1                   |
|           |            | 25      | 0         | 20.64                   | 20.98                   | 20.61                   | 2                   |
|           |            | 25      | 12        | 20.61                   | 21.00                   | 20.56                   | 2                   |
|           |            | 25      | 25        | 20.54                   | 20.90                   | 20.67                   | 2                   |
|           |            | 50      | 0         | 20.59                   | 20.94                   | 20.61                   | 2                   |

## EIRP POWER (dBm)

### CDMA

| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
|-------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| Y     | 25      | 1851.25         | -13.36    | 36.57                 | 23.21     | 209.51   | H                  |
|       | 600     | 1880.00         | -13.89    | 37.22                 | 23.33     | 215.48   | H                  |
|       | 1175    | 1908.75         | -13.54    | 37.18                 | 23.64     | 231.31   | H                  |
|       | 25      | 1851.25         | -20.39    | 37.65                 | 17.26     | 53.22    | V                  |
|       | 600     | 1880.00         | -20.34    | 37.58                 | 17.24     | 53.00    | V                  |
|       | 1175    | 1908.75         | -20.96    | 37.48                 | 16.52     | 44.87    | V                  |

### LTE Band 25

#### CHANNEL BANDWIDTH: 3MHz QPSK

| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
|-------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| X     | 26055   | 1851.5          | -15.42    | 36.57                 | 21.15     | 130.38   | H                  |
|       | 26365   | 1882.5          | -15.60    | 37.22                 | 21.62     | 145.34   | H                  |
|       | 26675   | 1913.5          | -16.75    | 39.11                 | 22.36     | 172.19   | H                  |
|       | 26055   | 1851.5          | -23.28    | 37.65                 | 14.37     | 27.36    | V                  |
|       | 26365   | 1882.5          | -23.40    | 37.58                 | 14.18     | 26.20    | V                  |
|       | 26675   | 1913.5          | -24.30    | 37.93                 | 13.63     | 23.07    | V                  |

#### CHANNEL BANDWIDTH: 3MHz 16QAM

| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
|-------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| X     | 26055   | 1851.5          | -16.61    | 36.57                 | 19.96     | 99.13    | H                  |
|       | 26365   | 1882.5          | -16.23    | 37.22                 | 20.99     | 125.72   | H                  |
|       | 26675   | 1913.5          | -18.34    | 39.11                 | 20.77     | 119.40   | H                  |
|       | 26055   | 1851.5          | -24.41    | 37.65                 | 13.24     | 21.09    | V                  |
|       | 26365   | 1882.5          | -24.64    | 37.58                 | 12.94     | 19.69    | V                  |
|       | 26675   | 1913.5          | -25.32    | 37.93                 | 12.61     | 18.24    | V                  |

### CHANNEL BANDWIDTH: 5MHz QPSK

| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
|-------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| X     | 26065   | 1852.5          | -15.31    | 36.57                 | 21.26     | 133.72   | H                  |
|       | 26365   | 1882.5          | -15.65    | 37.22                 | 21.57     | 143.68   | H                  |
|       | 26665   | 1912.5          | -16.73    | 39.11                 | 22.38     | 172.98   | H                  |
|       | 26065   | 1852.5          | -23.18    | 37.65                 | 14.47     | 28.00    | V                  |
|       | 26365   | 1882.5          | -23.25    | 37.58                 | 14.33     | 27.12    | V                  |
|       | 26665   | 1912.5          | -24.52    | 37.96                 | 13.44     | 22.08    | V                  |

### CHANNEL BANDWIDTH: 5MHz 16QAM

| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
|-------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| X     | 26065   | 1852.5          | -16.56    | 36.57                 | 20.01     | 100.28   | H                  |
|       | 26365   | 1882.5          | -16.24    | 37.22                 | 20.98     | 125.43   | H                  |
|       | 26665   | 1912.5          | -17.69    | 39.11                 | 21.42     | 138.68   | H                  |
|       | 26065   | 1852.5          | -24.52    | 37.65                 | 13.13     | 20.56    | V                  |
|       | 26365   | 1882.5          | -24.81    | 37.58                 | 12.77     | 18.94    | V                  |
|       | 26665   | 1912.5          | -26.96    | 37.96                 | 11.00     | 12.59    | V                  |

### CHANNEL BANDWIDTH: 10MHZ QPSK

| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
|-------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| X     | 26090   | 1855            | -15.73    | 36.57                 | 20.84     | 121.39   | H                  |
|       | 26365   | 1882.5          | -15.70    | 37.22                 | 21.52     | 142.04   | H                  |
|       | 26640   | 1910            | -16.89    | 39.19                 | 22.30     | 169.82   | H                  |
|       | 26090   | 1855            | -23.60    | 37.65                 | 14.05     | 25.42    | V                  |
|       | 26365   | 1882.5          | -23.24    | 37.58                 | 14.34     | 27.18    | V                  |
|       | 26640   | 1910            | -24.06    | 38.15                 | 14.09     | 25.64    | V                  |

### CHANNEL BANDWIDTH: 10MHZ 16QAM

| Plane | Channel | Frequency (MHz) | LVL (dBm) | Correction Factor(dB) | EIRP(dBm) | EIRP(mW) | Polarization (H/V) |
|-------|---------|-----------------|-----------|-----------------------|-----------|----------|--------------------|
| X     | 26090   | 1855            | -16.00    | 36.57                 | 20.57     | 114.08   | H                  |
|       | 26365   | 1882.5          | -16.29    | 37.22                 | 20.93     | 123.99   | H                  |
|       | 26640   | 1910            | -17.64    | 39.19                 | 21.55     | 142.89   | H                  |
|       | 26090   | 1855            | -25.53    | 37.65                 | 12.12     | 16.30    | V                  |
|       | 26365   | 1882.5          | -25.13    | 37.58                 | 12.45     | 17.59    | V                  |
|       | 26640   | 1910            | -26.14    | 38.15                 | 12.01     | 15.89    | V                  |

## 4.2 FREQUENCY STABILITY MEASUREMENT

### 4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

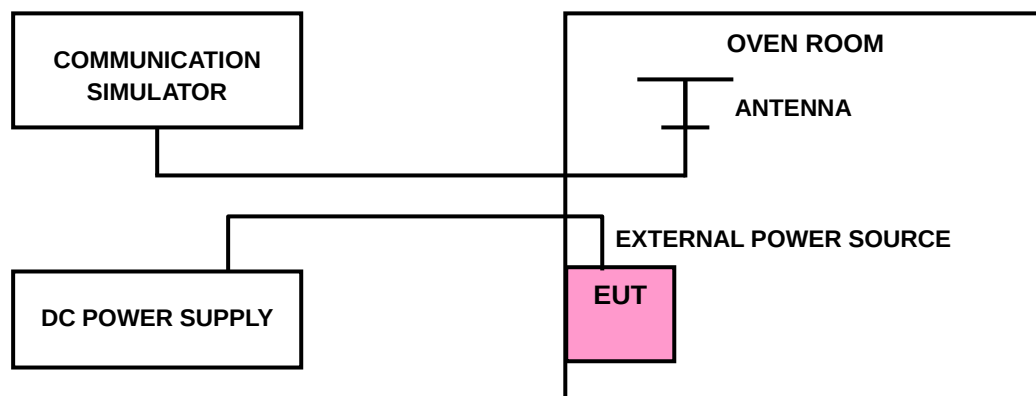
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### 4.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

**NOTE:** The frequency error was recorded frequency error from the communication simulator.

### 4.2.3 TEST SETUP



#### 4.2.4 TEST RESULTS

##### FREQUENCY ERROR vs. VOLTAGE

| VOLTAGE (Volts) | FREQUENCY ERROR (ppm) |             |          |          | LIMIT (ppm) |
|-----------------|-----------------------|-------------|----------|----------|-------------|
|                 | CDMA                  | LTE Band 25 |          |          |             |
|                 |                       | 3MHz        | 5MHz     | 10MHz    |             |
| 3.7             | 0.004                 | 0.00189     | -0.00116 | 0.00095  | 2.5         |
| 3.3             | 0.002                 | -0.00337    | -0.00184 | 0.00137  | 2.5         |
| 4.2             | 0.004                 | -0.00195    | -0.00021 | -0.00258 | 2.5         |

**NOTE:** The applicant defined the normal working voltage of the battery is from 3.3Vdc to 4.2Vdc.

##### FREQUENCY ERROR vs. TEMPERATURE

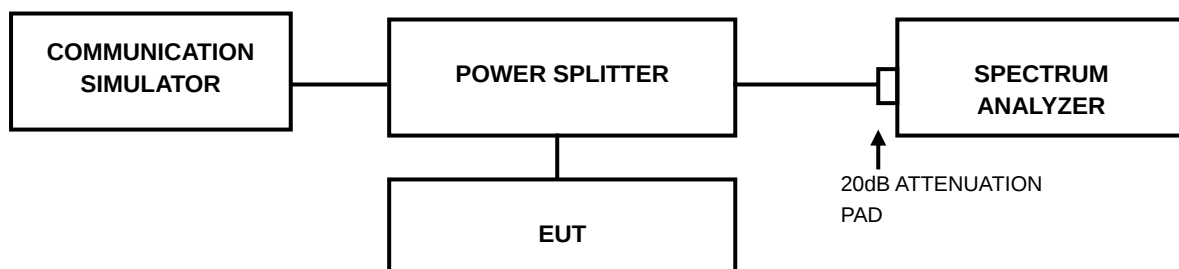
| TEMP. (°C) | FREQUENCY ERROR (ppm) |             |          |          | LIMIT (ppm) |
|------------|-----------------------|-------------|----------|----------|-------------|
|            | CDMA                  | LTE Band 25 |          |          |             |
|            |                       | 3MHz        | 5MHz     | 10MHz    |             |
| -30        | 0.002                 | 0.0021      | -0.00111 | -0.00163 | 2.5         |
| -20        | 0.002                 | -0.0021     | 0.00184  | 0.00437  | 2.5         |
| -10        | 0.003                 | -0.0017     | 0.00374  | -0.00442 | 2.5         |
| 0          | 0.002                 | -0.0024     | -0.00032 | 0.00284  | 2.5         |
| 10         | 0.002                 | -0.0009     | -0.00021 | 0.00021  | 2.5         |
| 20         | -0.001                | -0.0004     | -0.00242 | -0.00079 | 2.5         |
| 30         | 0.002                 | -0.0012     | -0.00142 | 0.00163  | 2.5         |
| 40         | 0.004                 | -0.0013     | -0.00116 | 0.00089  | 2.5         |
| 50         | 0.005                 | -0.0029     | 0.00400  | 0.00468  | 2.5         |

### 4.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 4.3.1 TEST PROCEDURES

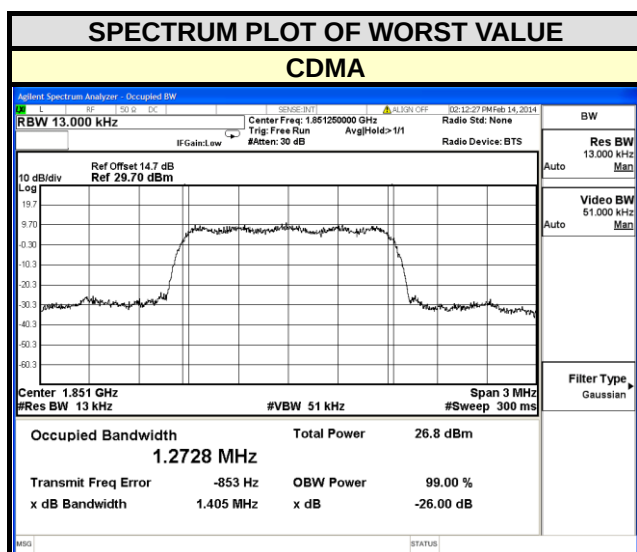
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

#### 4.3.2 TEST SETUP



### 4.3.3 TEST RESULTS

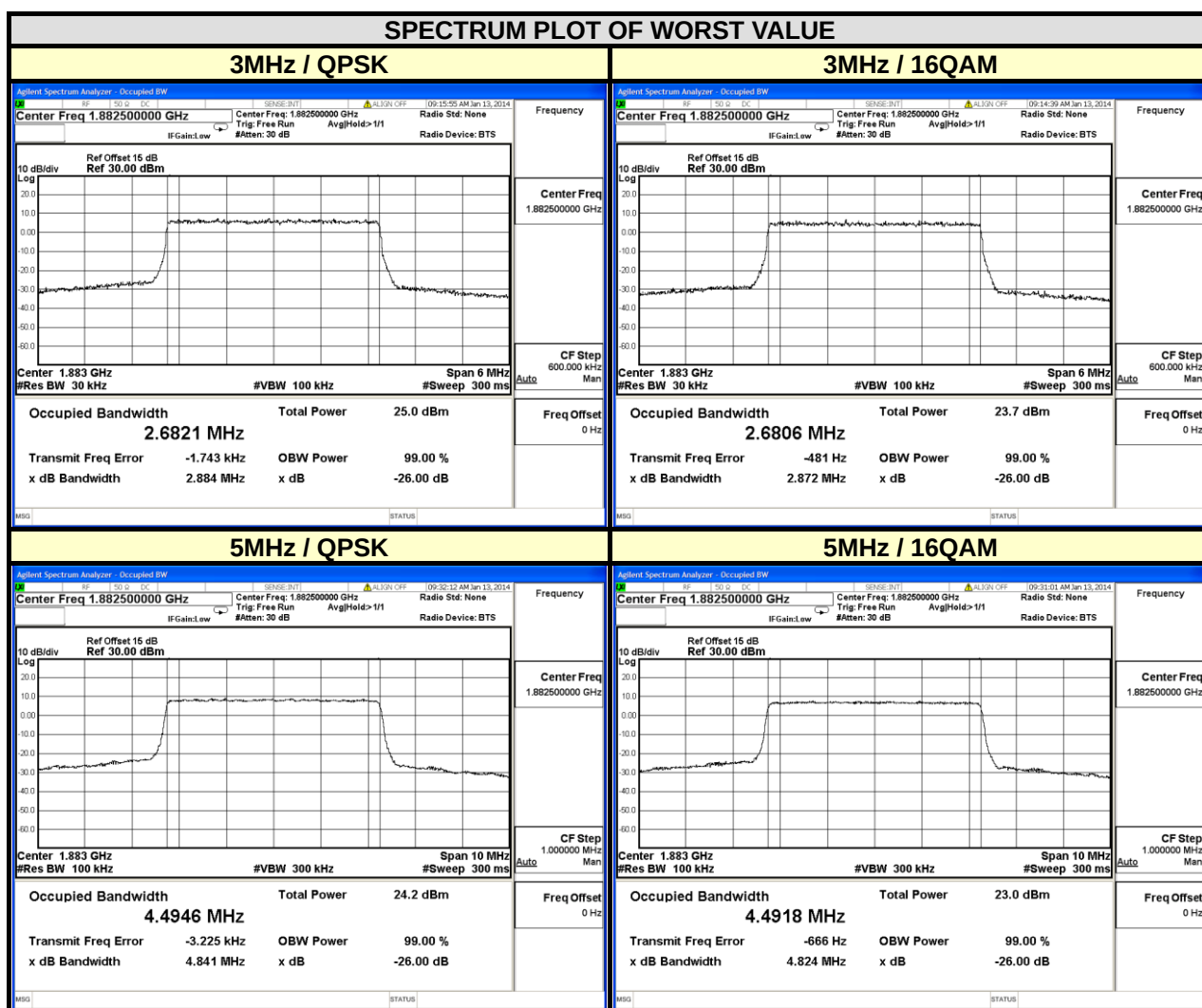
| CHANNEL | FREQUENCY | 99% OCCUPIED BANDWIDTH (MHz) |
|---------|-----------|------------------------------|
|         |           | CDMA                         |
| 25      | 1851.25   | 1.2728                       |
| 600     | 1880.00   | 1.2686                       |
| 1175    | 1908.75   | 1.2688                       |





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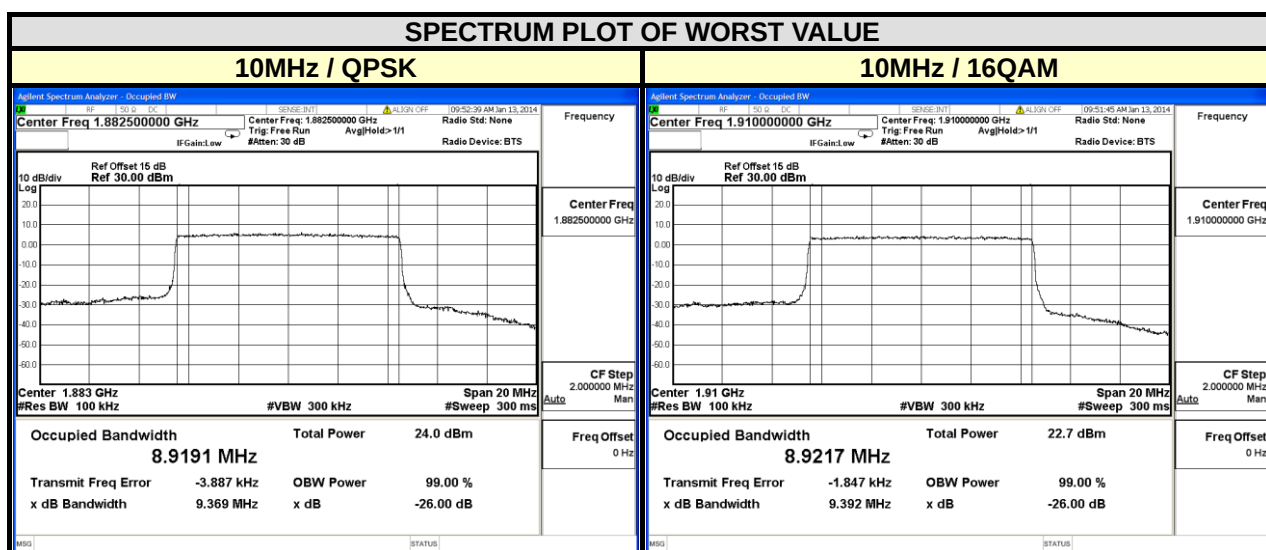
| LTE BAND 25             |           |                              |        |                         |           |                              |        |
|-------------------------|-----------|------------------------------|--------|-------------------------|-----------|------------------------------|--------|
| CHANNEL BANDWIDTH: 3MHz |           |                              |        | CHANNEL BANDWIDTH: 5MHz |           |                              |        |
| CHANNEL                 | FREQUENCY | 99% OCCUPIED BANDWIDTH (MHz) |        | CHANNEL                 | FREQUENCY | 99% OCCUPIED BANDWIDTH (MHz) |        |
|                         |           | QPSK                         | 16QAM  |                         |           | QPSK                         | 16QAM  |
| 26055                   | 1851.5    | 2.6805                       | 2.6802 | 26065                   | 1852.5    | 4.4911                       | 4.4846 |
| 26365                   | 1882.5    | 2.6821                       | 2.6806 | 26365                   | 1882.5    | 4.4946                       | 4.4918 |
| 26675                   | 1913.5    | 2.6802                       | 2.6786 | 26665                   | 1912.5    | 4.4884                       | 4.4862 |





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| LTE BAND 25              |           |                              |        |
|--------------------------|-----------|------------------------------|--------|
| CHANNEL BANDWIDTH: 10MHz |           |                              |        |
| CHANNEL                  | FREQUENCY | 99% OCCUPIED BANDWIDTH (MHz) |        |
|                          |           | QPSK                         | 16QAM  |
| 26090                    | 1855.0    | 8.9069                       | 8.8984 |
| 26365                    | 1882.5    | 8.9191                       | 8.9165 |
| 26640                    | 1910.0    | 8.9166                       | 8.9217 |

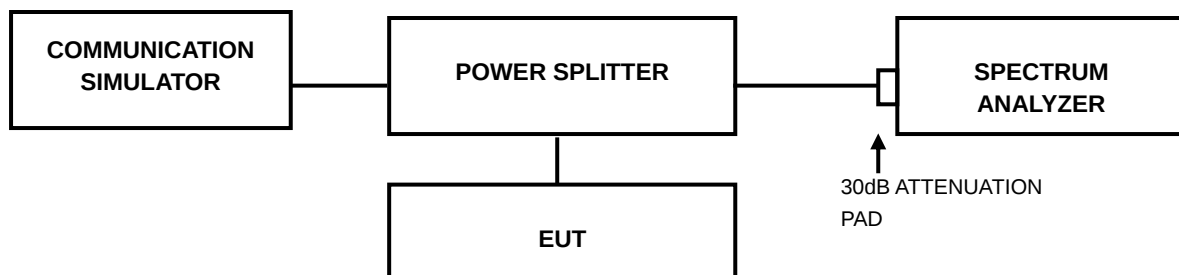


## 4.4 PEAK TO AVERAGE RATIO

### 4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

### 4.4.2 TEST SETUP

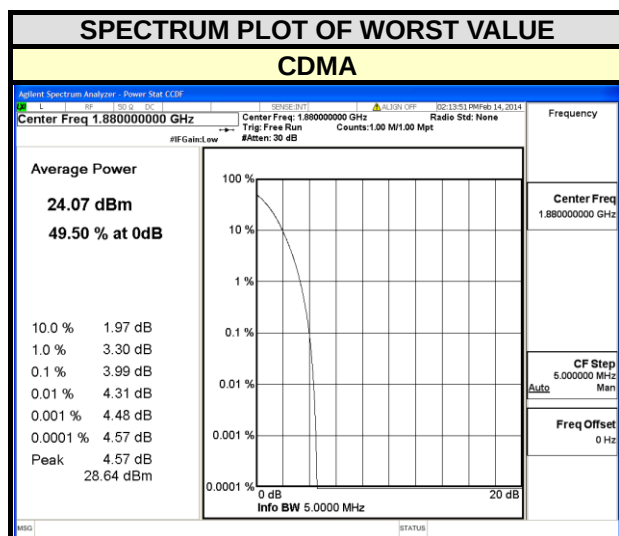


### 4.4.3 TEST PROCEDURES

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

#### 4.4.4 TEST RESULTS

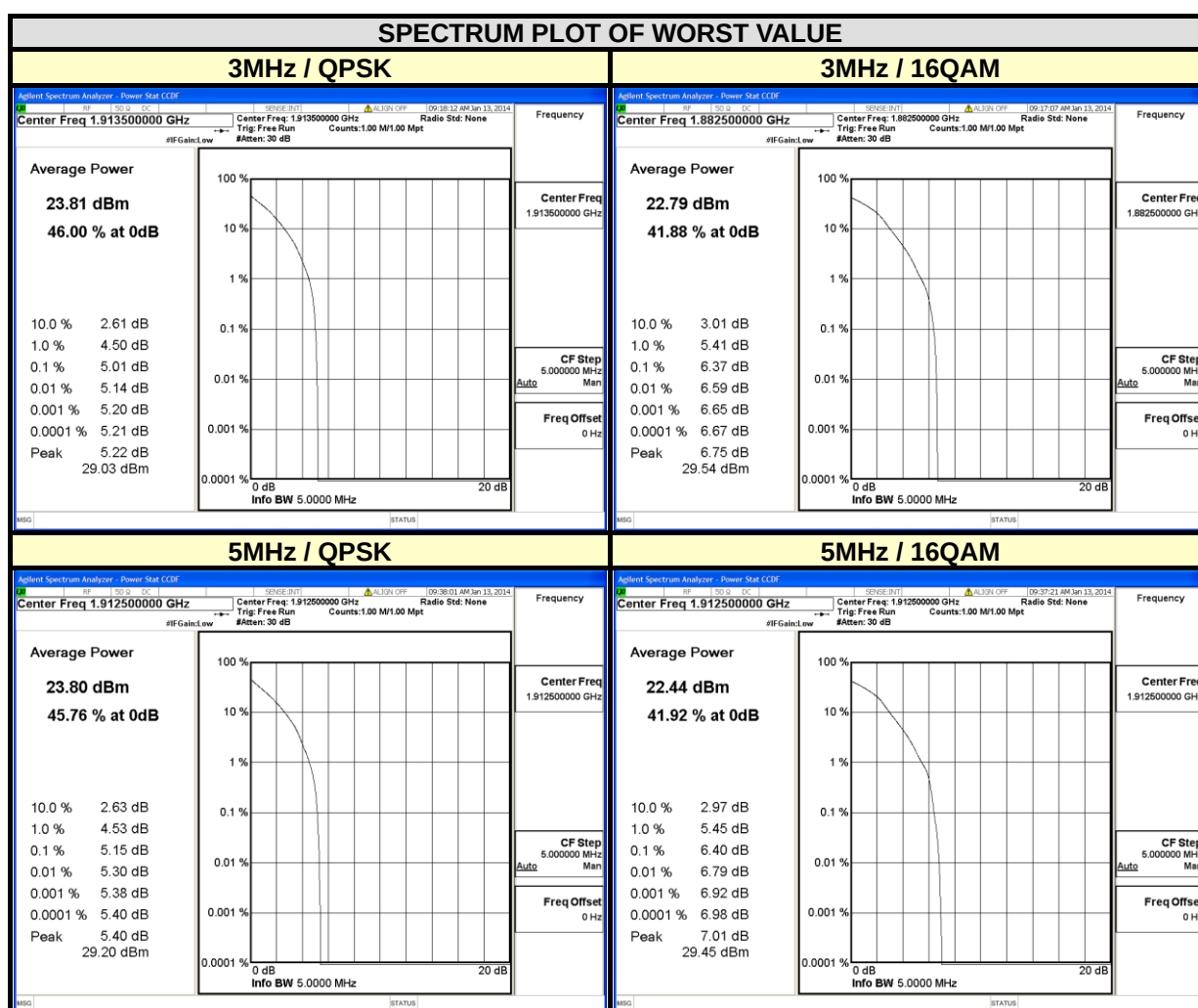
| CHANNEL | FREQUENCY (MHz) | PEAK TO AVERAGE RATIO (dB) |
|---------|-----------------|----------------------------|
|         |                 | CDMA                       |
| 25      | 1851.25         | 3.59                       |
| 600     | 1880.00         | 3.99                       |
| 1175    | 1908.75         | 3.96                       |





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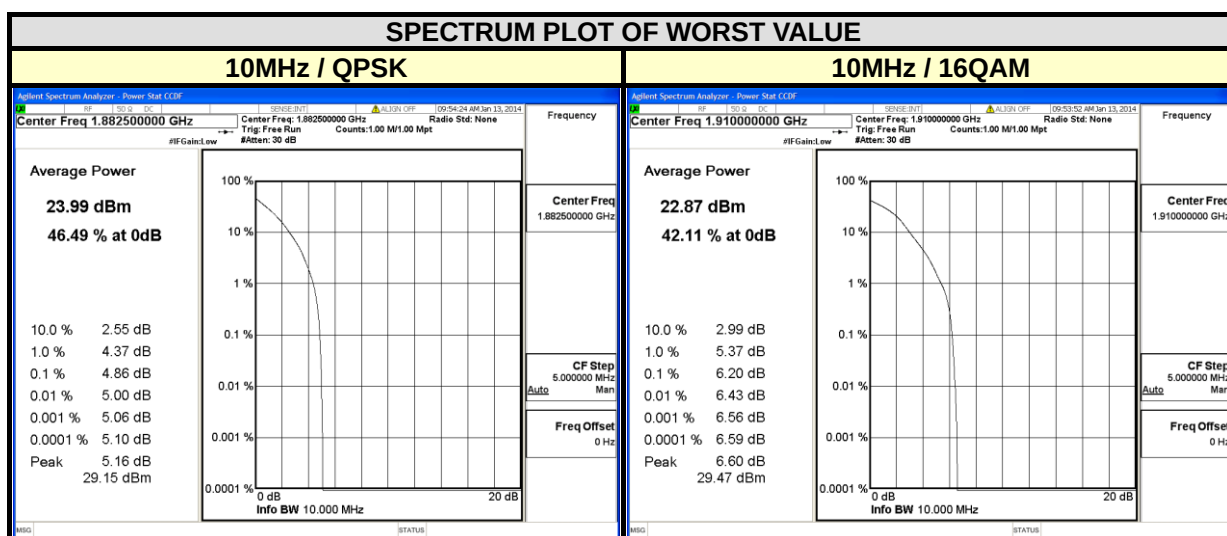
| LTE BAND 25             |                 |                            |       |                         |                 |                            |       |
|-------------------------|-----------------|----------------------------|-------|-------------------------|-----------------|----------------------------|-------|
| CHANNEL BANDWIDTH: 3MHz |                 |                            |       | CHANNEL BANDWIDTH: 5MHz |                 |                            |       |
| CHANNEL                 | FREQUENCY (MHz) | PEAK TO AVERAGE RATIO (dB) |       | CHANNEL                 | FREQUENCY (MHz) | PEAK TO AVERAGE RATIO (dB) |       |
|                         |                 | QPSK                       | 16QAM |                         |                 | QPSK                       | 16QAM |
| 26055                   | 1851.5          | 4.42                       | 5.83  | 26065                   | 1852.5          | 4.44                       | 5.80  |
| 26365                   | 1882.5          | 4.99                       | 6.37  | 26365                   | 1882.5          | 5.06                       | 6.26  |
| 26675                   | 1913.5          | 5.01                       | 6.36  | 26665                   | 1912.5          | 5.15                       | 6.40  |





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| LTE BAND 25              |                 |                            |       |
|--------------------------|-----------------|----------------------------|-------|
| CHANNEL BANDWIDTH: 10MHz |                 |                            |       |
| CHANNEL                  | FREQUENCY (MHz) | PEAK TO AVERAGE RATIO (dB) |       |
|                          |                 | QPSK                       | 16QAM |
| 26090                    | 1855.0          | 4.20                       | 5.55  |
| 26365                    | 1882.5          | 4.86                       | 6.18  |
| 26640                    | 1910.0          | 4.80                       | 6.20  |

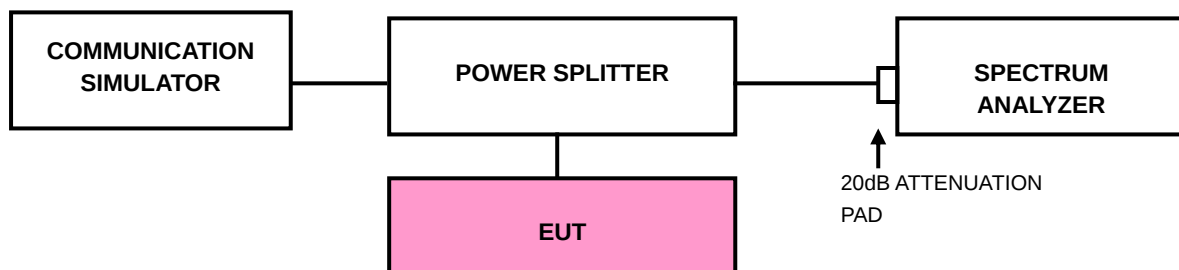


## 4.5 BAND EDGE MEASUREMENT

### 4.5.1 LIMITS OF BAND EDGE MEASUREMENT

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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

### 4.5.2 TEST SETUP



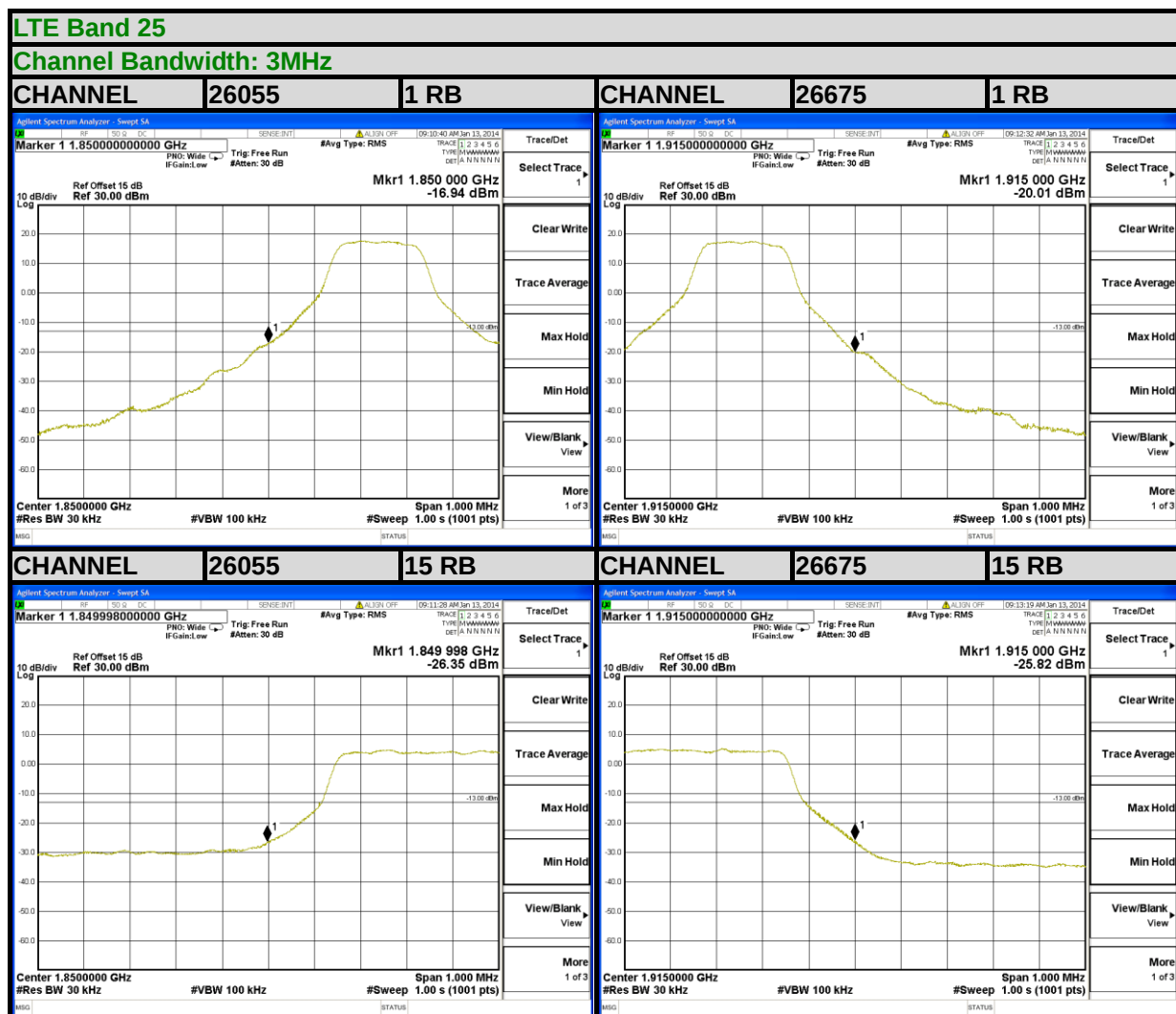
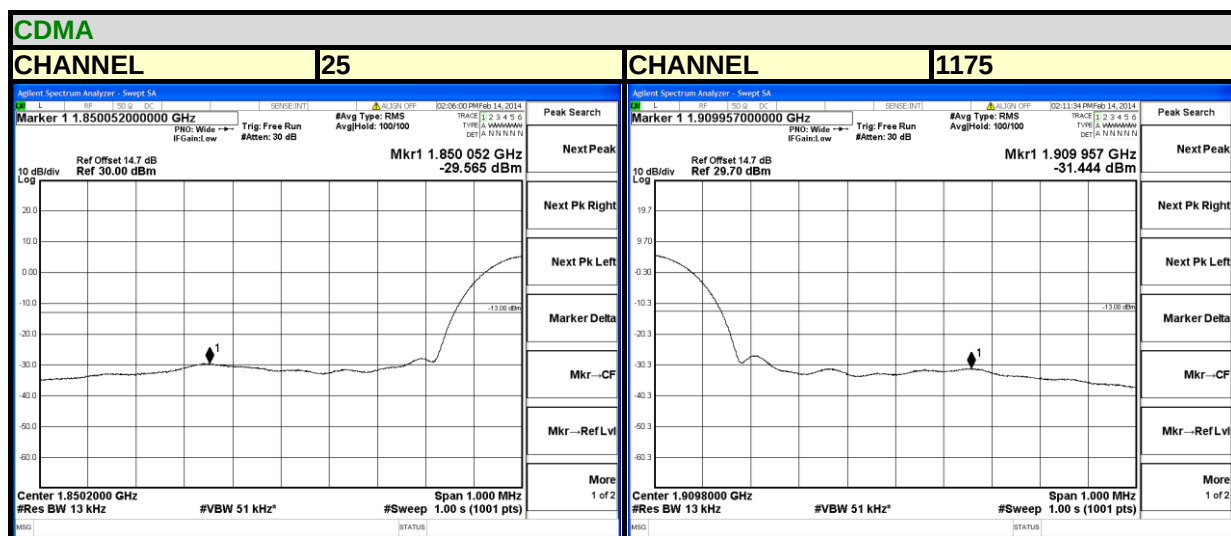
### 4.5.3 TEST PROCEDURES

- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 13kHz and VB of the spectrum is 51kHz (CDMA).
- The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Channel Bandwidth 3MHz).
- The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Channel Bandwidth 5MHz & 10MHz).
- Record the max trace plot into the test report.



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## 4.5.4 TEST RESULTS

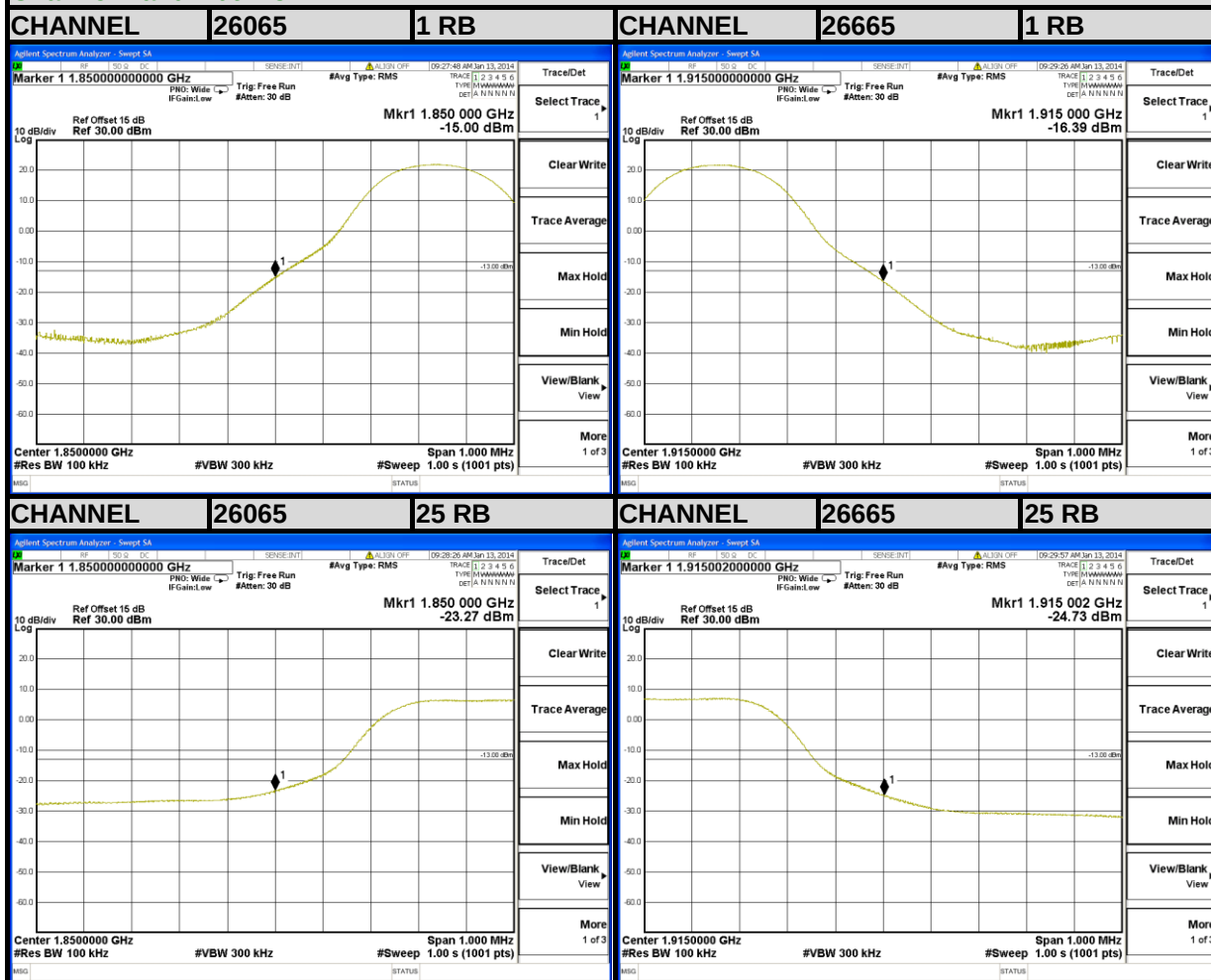




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## LTE Band 25

## Channel Bandwidth: 5MHz

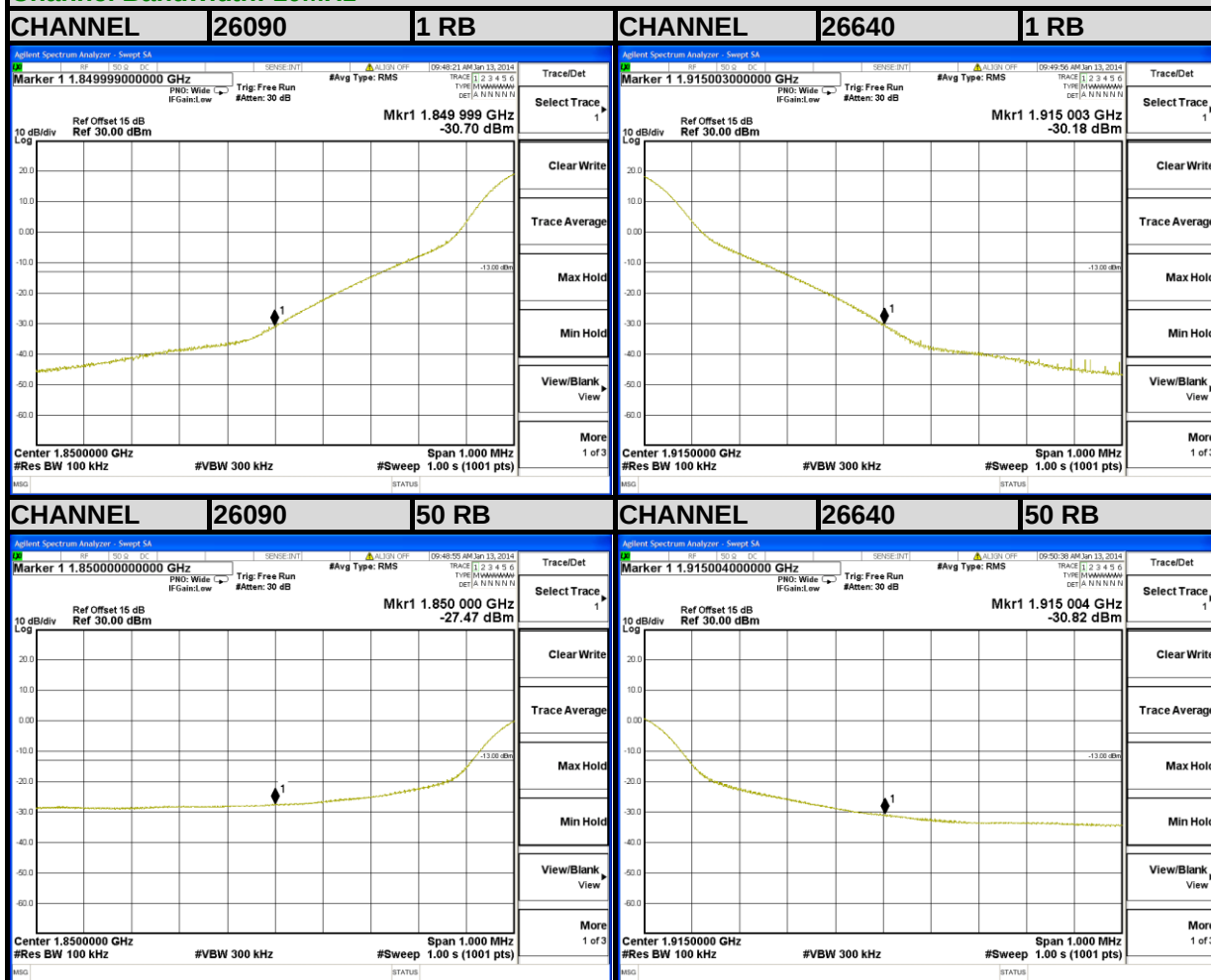




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## LTE Band 25

Channel Bandwidth: 10MHz



## 4.6 CONDUCTED SPURIOUS EMISSIONS

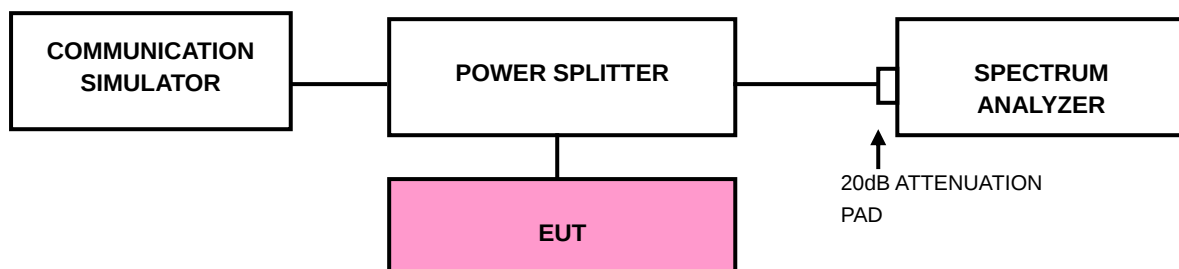
### 4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 equal to  $-13\text{dBm}$ .

### 4.6.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30 MHz to 19.1GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

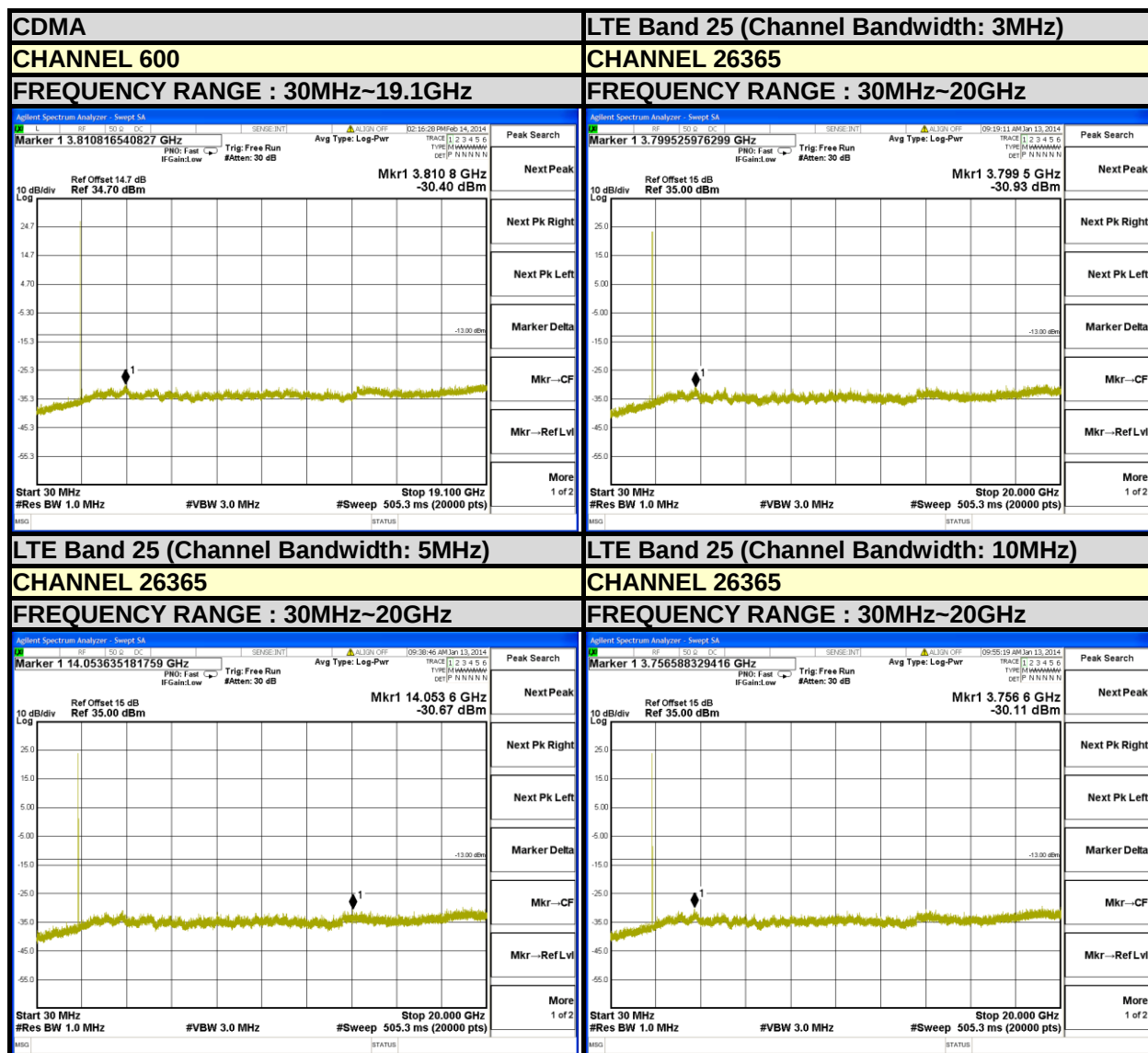
### 4.6.3 TEST SETUP





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#### 4.6.4 TEST RESULTS



## 4.7 RADIATED EMISSION MEASUREMENT

### 4.7.1 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 equal to  $-13\text{dBm}$ .

### 4.7.2 TEST PROCEDURES

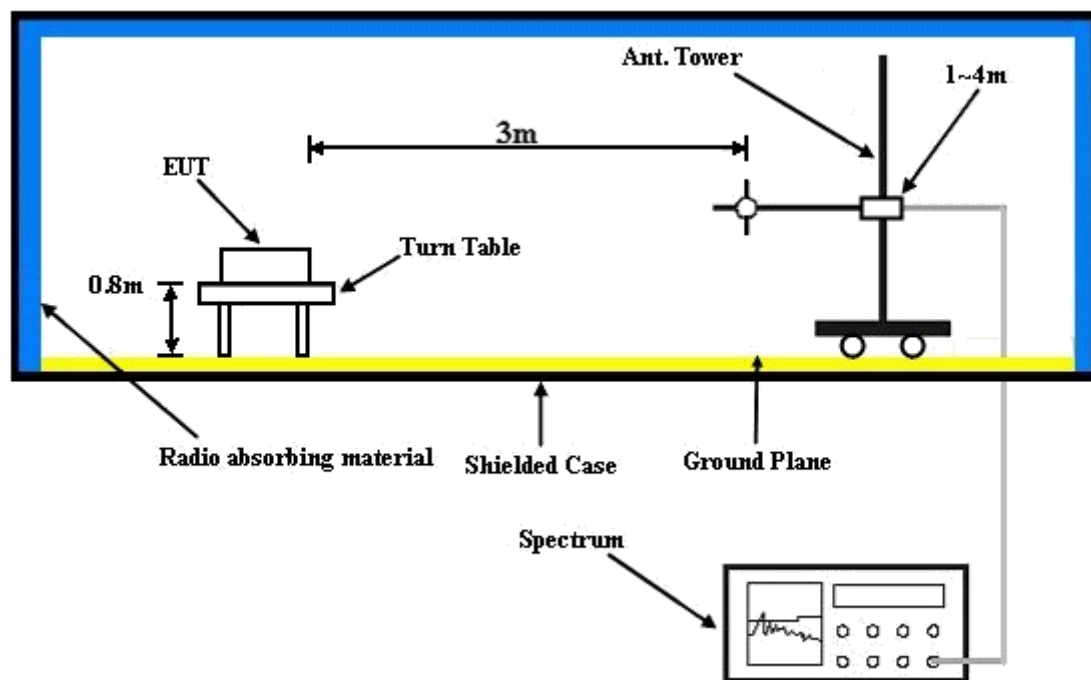
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G
- c.  $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  
 $\text{E.R.P power} = \text{E.I.R.P power} - 2.15\text{dBi}.$

**NOTE:** The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

### 4.7.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.7.4 TEST SETUP



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

## 4.7.5 TEST RESULTS

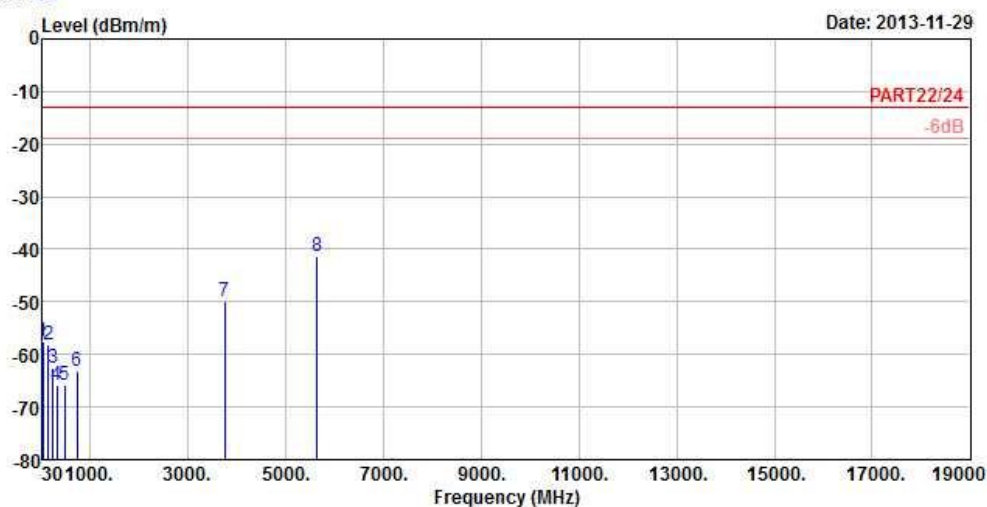
### CDMA:



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A D T

Data: 15



Site : 966 Chamber 5  
Condition : PART22/24 3m HORIZONTAL  
Brand/Model: G81-C6730  
Remark : 1xRTT1900 Link  
Tested by : Anson Lin  
Temperature : 25°C  
Humidity : 65%  
Plane : Y  
Sample No : C131120-004-024-003

|      |         |        | Read   | Limit  | Over   |        |        |
|------|---------|--------|--------|--------|--------|--------|--------|
|      | Freq    | Level  | Level  | Line   | Limit  | Factor | Remark |
|      | MHz     | dBm/m  | dBm    | dBm/m  | dB     | dB/m   |        |
| 1    | 38.10   | -57.68 | -55.73 | -13.00 | -44.68 | -1.95  | Peak   |
| 2    | 145.29  | -58.12 | -52.07 | -13.00 | -45.12 | -6.05  | Peak   |
| 3    | 248.70  | -62.47 | -56.70 | -13.00 | -49.47 | -5.77  | Peak   |
| 4    | 318.90  | -65.82 | -59.58 | -13.00 | -52.82 | -6.24  | Peak   |
| 5    | 473.60  | -65.88 | -62.10 | -13.00 | -52.88 | -3.78  | Peak   |
| 6    | 728.40  | -63.05 | -64.69 | -13.00 | -50.05 | 1.64   | Peak   |
| 7    | 3760.00 | -49.98 | -41.68 | -13.00 | -36.98 | -8.30  | Peak   |
| 8 pp | 5640.00 | -41.45 | -39.55 | -13.00 | -28.45 | -1.90  | Peak   |



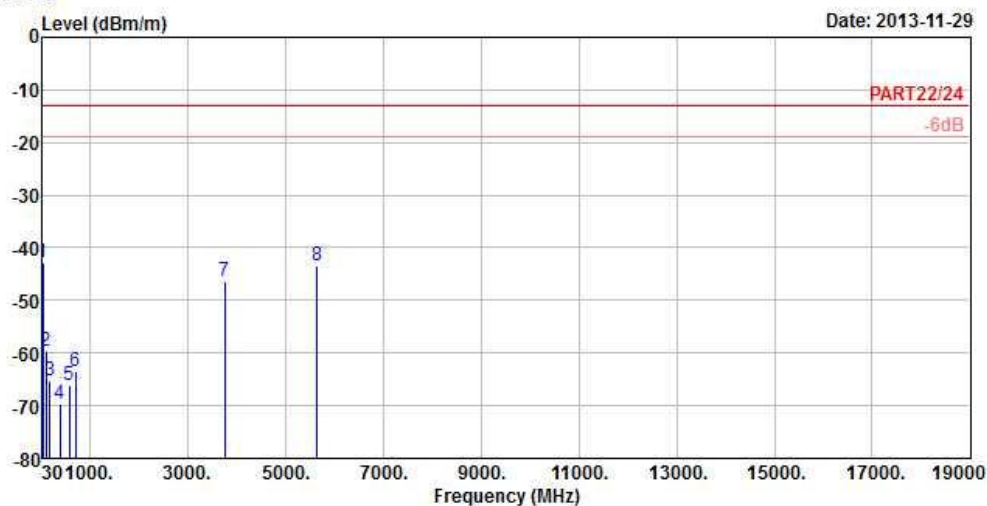
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A D T

Data: 16



Site : 966 Chamber 5  
Condition : PART22/24 3m VERTICAL  
Brand/Model: G81-C6730  
Remark : 1xRTT1900 Link  
Tested by : Anson Lin  
Temperature : 25°C  
Humidity : 65%  
Plane : Y  
Sample No : C131120-004-024-003

|   |      |         | Read   | Limit  | Over   |        |             |
|---|------|---------|--------|--------|--------|--------|-------------|
|   | Freq | Level   | Level  | Line   | Limit  | Factor | Remark      |
|   | MHz  | dBm/m   | dBm    | dBm/m  | dB     | dB/m   |             |
| 1 | pp   | 39.18   | -42.80 | -41.06 | -13.00 | -29.80 | -1.74 Peak  |
| 2 |      | 95.34   | -59.49 | -49.00 | -13.00 | -46.49 | -10.49 Peak |
| 3 |      | 182.82  | -65.30 | -59.29 | -13.00 | -52.30 | -6.01 Peak  |
| 4 |      | 379.10  | -69.63 | -63.84 | -13.00 | -56.63 | -5.79 Peak  |
| 5 |      | 572.30  | -66.27 | -65.15 | -13.00 | -53.27 | -1.12 Peak  |
| 6 |      | 701.80  | -63.55 | -65.01 | -13.00 | -50.55 | 1.46 Peak   |
| 7 |      | 3760.00 | -46.22 | -37.92 | -13.00 | -33.22 | -8.30 Peak  |
| 8 |      | 5640.00 | -43.41 | -41.51 | -13.00 | -30.41 | -1.90 Peak  |



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## LTE BAND 25

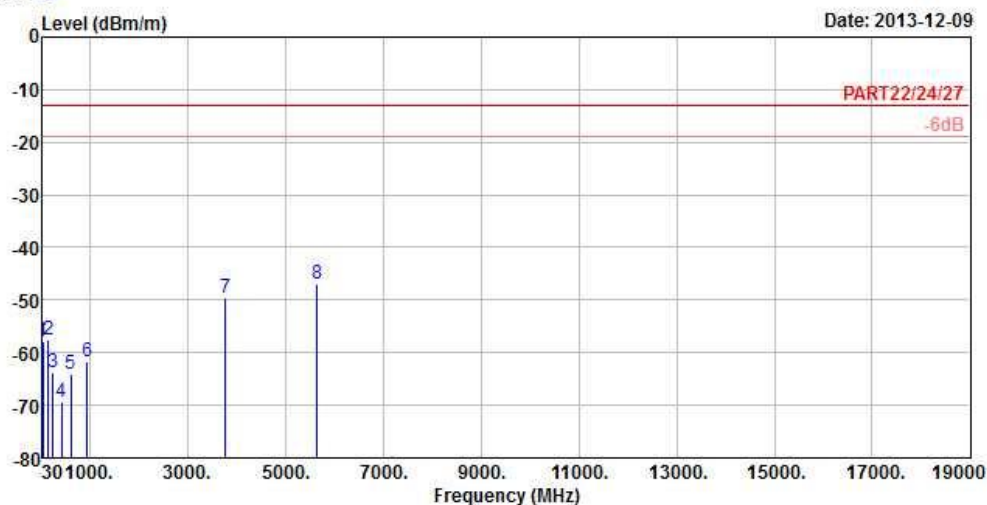
CHANNEL BANDWIDTH: 3MHz / QPSK



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A D T

Data: 15



Site : 966 Chamber 5  
Condition : PART22/24/27 3m HORIZONTAL  
Brand/Model: G81-C6730  
Remark : Band 25 3M QPSK(1,7) Link  
Tested by : Anson Lin  
Temperature : 25°C  
Humidity : 65%  
Plane : X  
Sample No : C131120-002-024-006

|      | Freq    | Level  | Read Level | Limit Line | Over Limit | Factor | Remark |
|------|---------|--------|------------|------------|------------|--------|--------|
|      | MHz     | dBm/m  | dBm        | dBm/m      | dB         | dB/m   |        |
| 1    | 40.26   | -57.82 | -56.36     | -13.00     | -44.82     | -1.46  | Peak   |
| 2    | 146.10  | -57.70 | -51.59     | -13.00     | -44.70     | -6.11  | Peak   |
| 3    | 248.70  | -63.74 | -57.97     | -13.00     | -50.74     | -5.77  | Peak   |
| 4    | 413.40  | -69.39 | -64.09     | -13.00     | -56.39     | -5.30  | Peak   |
| 5    | 612.20  | -64.11 | -63.97     | -13.00     | -51.11     | -0.14  | Peak   |
| 6    | 944.70  | -61.80 | -65.38     | -13.00     | -48.80     | 3.58   | Peak   |
| 7    | 3765.00 | -49.58 | -41.34     | -13.00     | -36.58     | -8.24  | Peak   |
| 8 pp | 5647.50 | -46.88 | -44.98     | -13.00     | -33.88     | -1.90  | Peak   |



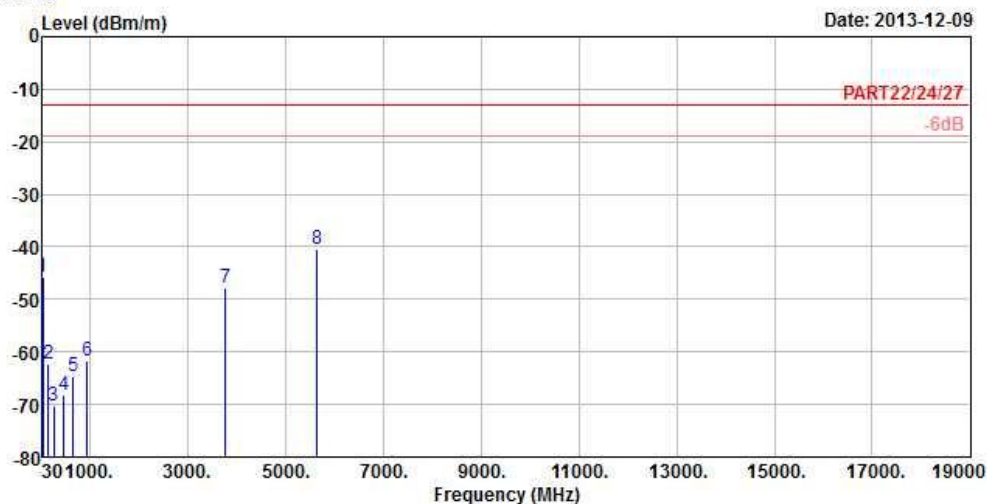
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A D T

Data: 16



Site : 966 Chamber 5  
Condition : PART22/24/27 3m VERTICAL  
Brand/Model: G81-C6730  
Remark : Band 25 3M QPSK(1,7) Link  
Tested by : Anson Lin  
Temperature : 25°C  
Humidity : 65%  
Plane : X  
Sample No : C131120-002-024-006

|      |         |        | Read   | Limit  | Over   |        |        |
|------|---------|--------|--------|--------|--------|--------|--------|
|      | Freq    | Level  | Level  | Line   | Limit  | Factor | Remark |
|      | MHz     | dBm/m  | dBm    | dBm/m  | dB     | dB/m   |        |
| 1    | 40.53   | -45.69 | -44.23 | -13.00 | -32.69 | -1.46  | Peak   |
| 2    | 141.51  | -62.36 | -56.56 | -13.00 | -49.36 | -5.80  | Peak   |
| 3    | 259.23  | -70.32 | -64.52 | -13.00 | -57.32 | -5.80  | Peak   |
| 4    | 461.00  | -68.17 | -64.07 | -13.00 | -55.17 | -4.10  | Peak   |
| 5    | 650.70  | -64.56 | -65.12 | -13.00 | -51.56 | 0.56   | Peak   |
| 6    | 946.80  | -61.63 | -65.25 | -13.00 | -48.63 | 3.62   | Peak   |
| 7    | 3765.00 | -47.91 | -39.67 | -13.00 | -34.91 | -8.24  | Peak   |
| 8 pp | 5647.50 | -40.50 | -38.60 | -13.00 | -27.50 | -1.90  | Peak   |



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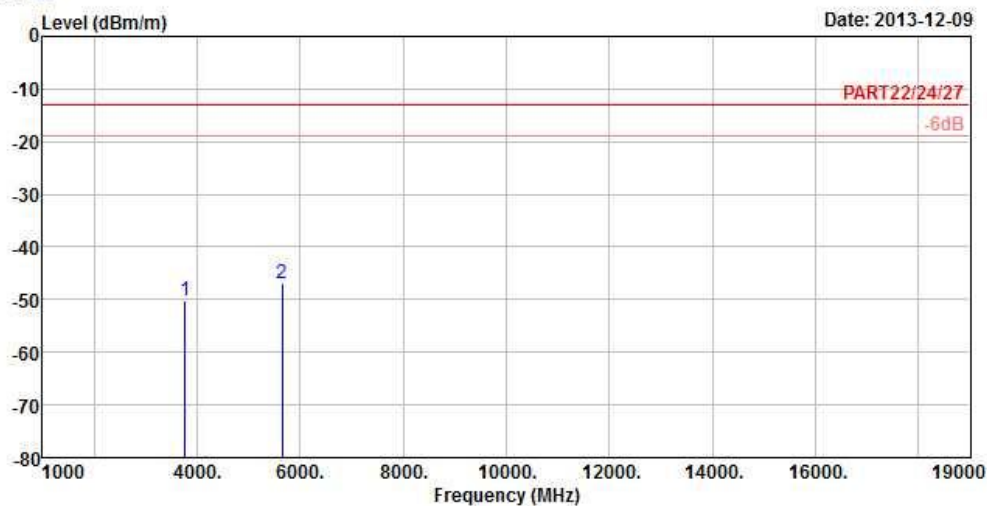
## CHANNEL BANDWIDTH: 5MHz / QPSK



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A D T

Data: 11



Site : 966 Chamber 5  
Condition : PART22/24/27 3m HORIZONTAL  
Brand/Model: G81-C6730  
Remark : Band 25 5M QPSK(1,12) Link  
Tested by : Anson Lin  
Temperature : 25°C  
Humidity : 65%  
Plane : X  
Sample No : C131120-002-024-006

|      | Freq    | Level  | Read Level | Limit Level | Over Limit | Factor | Remark |
|------|---------|--------|------------|-------------|------------|--------|--------|
|      | MHz     | dBm/m  | dBm        | dBm/m       | dB         | dB/m   |        |
| 1    | 3765.00 | -50.28 | -42.04     | -13.00      | -37.28     | -8.24  | Peak   |
| 2 pp | 5647.50 | -46.80 | -44.90     | -13.00      | -33.80     | -1.90  | Peak   |



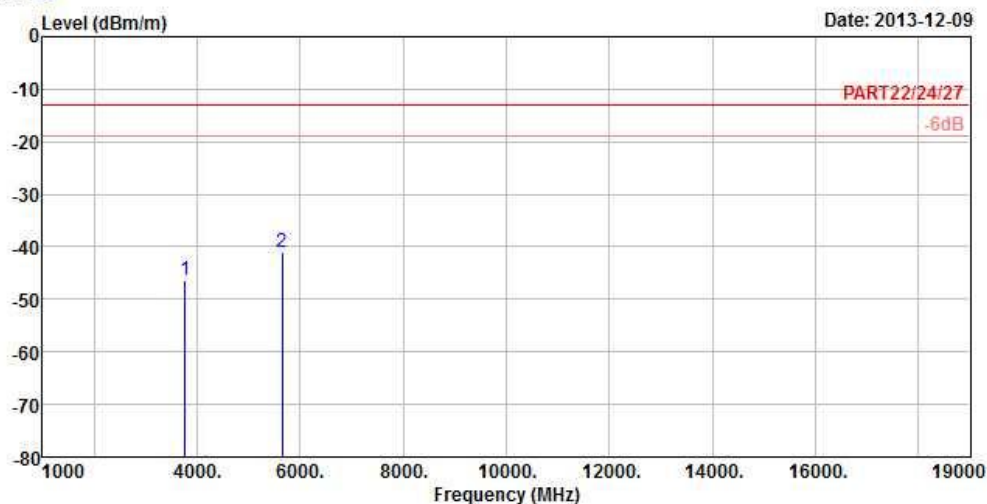
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5  
Condition : PART22/24/27 3m VERTICAL  
Brand/Model: G81-C6730  
Remark : Band 25 5M QPSK(1,12) Link  
Tested by : Anson Lin  
Temperature : 25°C  
Humidity : 65%  
Plane : X  
Sample No : C131120-002-024-006

|      | Freq    | Level  | Read   | Limit  | Over   | Factor | Remark |
|------|---------|--------|--------|--------|--------|--------|--------|
|      |         |        | Level  | Line   | Limit  |        |        |
|      | MHz     | dBm/m  | dBm    | dBm/m  | dB     | dB/m   |        |
| 1    | 3765.00 | -46.28 | -38.04 | -13.00 | -33.28 | -8.24  | Peak   |
| 2 pp | 5647.50 | -41.09 | -39.19 | -13.00 | -28.09 | -1.90  | Peak   |



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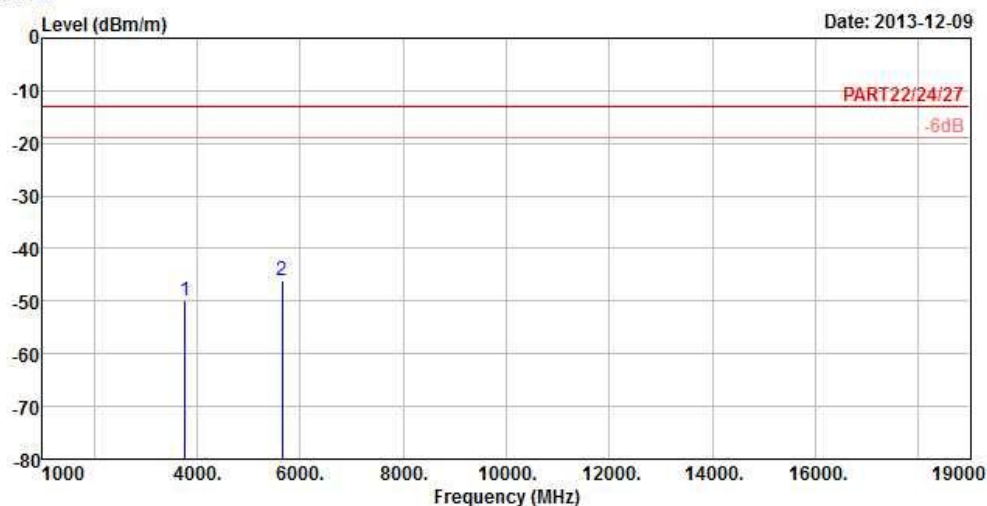
CHANNEL BANDWIDTH: 10MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11



Site : 966 Chamber 5  
Condition : PART22/24/27 3m HORIZONTAL  
Brand/Model: G81-C6730  
Remark : Band 25 10M QPSK(1,24) Link  
Tested by : Anson Lin  
Temperature : 25°C  
Humidity : 65%  
Plane : X  
Sample No : C131120-002-024-006

|   | Freq    | Level  | Read   | Limit  | Over   | Factor | Remark |
|---|---------|--------|--------|--------|--------|--------|--------|
|   |         |        | Level  | Line   | Limit  |        |        |
|   | MHz     | dBm/m  | dBm    | dBm/m  | dB     | dB/m   |        |
| 1 | 3765.00 | -49.88 | -41.64 | -13.00 | -36.88 | -8.24  | Peak   |
| 2 | 5647.50 | -46.09 | -44.19 | -13.00 | -33.09 | -1.90  | Peak   |



A D T

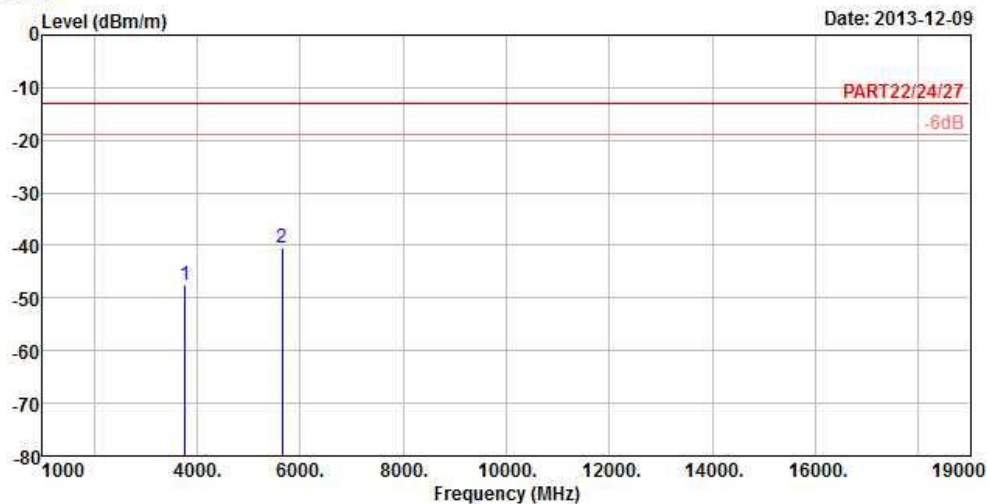


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12

Date: 2013-12-09



Site : 966 Chamber 5  
Condition : PART22/24/27 3m VERTICAL  
Brand/Model: G81-C6730  
Remark : Band 25 10M QPSK(1,24) Link  
Tested by : Anson Lin  
Temperature : 25°C  
Humidity : 65%  
Plane : X  
Sample No : C131120-002-024-006

|      | Freq    | Level  | Read   | Limit  | Over   | Factor | Remark |
|------|---------|--------|--------|--------|--------|--------|--------|
|      |         |        | Level  | Line   | Limit  |        |        |
|      | MHz     | dBm/m  | dBm    | dBm/m  | dB     | dB/m   |        |
| 1    | 3765.00 | -47.60 | -39.36 | -13.00 | -34.60 | -8.24  | Peak   |
| 2 pp | 5647.50 | -40.56 | -38.66 | -13.00 | -27.56 | -1.90  | Peak   |

## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

## 6 INFORMATION ON 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 accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26051924

**Hsin Chu EMC/RF Lab:**

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**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

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



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## **7 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications were made to the EUT by the lab during the test.

**---END---**