



# FCC RF Test Report

**APPLICANT** : ZTE Corporation  
**EQUIPMENT** : Tablet  
**BRAND NAME** : ZTE  
**MODEL NAME** : K81  
**MARKETING NAME** : K81  
**FCC ID** : SRQ-K81  
**STANDARD** : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)  
**CLASSIFICATION** : PCS Licensed Transmitter (PCB)

The product was received on Mar. 24, 2017 and testing was completed on Apr. 17, 2017. We, SPORTON International (ShenZhen) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON International (ShenZhen) INC., the test report shall not be reproduced except in full.

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Prepared by: Eric Shih / Manager

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Approved by: Jones Tsai / Manager



**SPORTON International (ShenZhen) INC.**

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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE  |
|------------|---------|-------------------------|--------------|
| FG732417A  | Rev. 01 | Initial issue of report | May 22, 2017 |
|            |         |                         |              |
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## SUMMARY OF TEST RESULT

| Report Section | FCC Rule                                         | Description                                   | Limit                  | Result | Remark                                     |
|----------------|--------------------------------------------------|-----------------------------------------------|------------------------|--------|--------------------------------------------|
| 3.4            | §2.1046                                          | Conducted Output Power                        | Reporting Only         | PASS   | -                                          |
|                | §22.913(a)(2)                                    | Effective Radiated Power                      | < 7 Watts              | PASS   | -                                          |
|                | §24.232(c)                                       | Equivalent Isotropic Radiated Power           | < 2 Watts              | PASS   | -                                          |
|                | §27.50(d)(4)                                     | Equivalent Isotropic Radiated Power           | < 1 Watts              | PASS   | -                                          |
| 3.5            | §24.232(d)                                       | Peak-to-Average Ratio                         | < 13 dB                | PASS   | -                                          |
| 3.6            | §2.1049<br>§22.917(b)<br>§24.238(b)<br>§27.53(g) | Occupied Bandwidth                            | Reporting Only         | PASS   | -                                          |
| 3.7            | §2.1051<br>§22.917(a)<br>§24.238(a)<br>§27.53(h) | Band Edge Measurement                         | < 43+10log10(P[Watts]) | PASS   | -                                          |
| 3.8            | §2.1051<br>§22.917(a)<br>§24.238(a)<br>§27.53(h) | Conducted Emission                            | < 43+10log10(P[Watts]) | PASS   | -                                          |
| 3.9            | §2.1055<br>§22.355                               | Frequency Stability for Temperature & Voltage | < 2.5 ppm for Part 22H | PASS   | -                                          |
|                | §2.1055<br>§24.235<br>§27.54                     |                                               | Within Authorized Band |        |                                            |
| 4.4            | §2.1053<br>§22.917(a)<br>§24.238(a)<br>§27.53(h) | Field Strength of Spurious Radiation          | < 43+10log10(P[Watts]) | PASS   | Under limit<br>40.16 dB at<br>2539.800 MHz |



# 1 General Description

## 1.1 Applicant

**ZTE Corporation**

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China

## 1.2 Manufacturer

**ZTE Corporation**

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China

## 1.3 Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                                            |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Tablet                                                                                                                                                                     |
| Brand Name                      | ZTE                                                                                                                                                                        |
| Model Name                      | K81                                                                                                                                                                        |
| Marketing Name                  | K81                                                                                                                                                                        |
| FCC ID                          | SRQ-K81                                                                                                                                                                    |
| EUT supports Radios application | WCDMA/HSPA/HSPA+ (16QAM uplink is not supported)/LTE<br>WLAN2.4GHz 802.11b/g/n HT20/HT40<br>Bluetooth v3.0+EDR/ Bluetooth v4.0 LE/<br>Bluetooth v4.1 LE/ Bluetooth v4.2 LE |
| IMEI Code                       | Conducted: 864855030001624<br>Radiation: 864855030001509                                                                                                                   |
| HW Version                      | K81MB_A                                                                                                                                                                    |
| SW Version                      | PV_ZTE_P890R81_ROGERSV1.0.0B01                                                                                                                                             |
| EUT Stage                       | Identical Prototype                                                                                                                                                        |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                        |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                     | <b>WCDMA:</b><br>Band V: 826.4 MHz ~ 846.6 MHz<br>Band II: 1852.4 MHz ~ 1907.6 MHz<br>Band IV: 1712.4 MHz ~ 1752.6 MHz |
| <b>Rx Frequency</b>                     | <b>WCDMA:</b><br>Band V: 871.4 MHz ~ 891.6 MHz<br>Band II: 1932.4 MHz ~ 1987.6 MHz<br>Band IV: 2112.4 MHz ~ 2152.6 MHz |
| <b>Maximum Output Power to Antenna</b>  | <b>WCDMA:</b><br>Band V: 23.37 dBm<br>Band II: 23.26 dBm<br>Band IV: 22.90 dBm                                         |
| <b>Antenna Type</b>                     | PIFA Antenna                                                                                                           |
| <b>Antenna Gain</b>                     | Cellular Band: -3.50 dBi<br>PCS Band: -2.50 dBi<br>AWS Band: -2.50 dBi                                                 |
| <b>Type of Modulation</b>               | WCDMA : BPSK (Uplink)<br>HSDPA: QPSK (Uplink)<br>HSUPA : QPSK (Uplink)<br>HSPA+ : 16QAM (uplink is not supported)      |

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

| FCC Rule | System                     | Type of Modulation | Maximum ERP/EIRP (W) | Frequency Tolerance (ppm) | Emission Designator |
|----------|----------------------------|--------------------|----------------------|---------------------------|---------------------|
| Part 22H | WCDMA Band V RMC 12.2Kbps  | BPSK               | 0.0592               | 0.0117 ppm                | 4M13F9W             |
| Part 24E | WCDMA Band II RMC 12.2Kbps | BPSK               | 0.1191               | 0.0085 ppm                | 4M15F9W             |
| Part 27L | WCDMA Band IV RMC 12.2Kbps | BPSK               | 0.1096               | 0.0190 ppm                | 4M16F9W             |

## 1.7 Testing Location

|                           |                                                                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Site</b>          | SPORTON International (ShenZhen) INC.                                                                                                                                           |
| <b>Test Site Location</b> | 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan District, Shenzhen City, Guangdong Province, China<br>TEL: +86-755-8637-9589<br>FAX: +86-755-8637-9595 |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b><br>TH01-SZ                                                                                                                                              |

|                           |                                                                                                                                                                 |                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Test Site</b>          | SPORTON International (ShenZhen) INC.                                                                                                                           |                             |
| <b>Test Site Location</b> | No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China<br>TEL: +86-755- 3320-2398 |                             |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                         | <b>FCC Registration No.</b> |
|                           | 03CH03-SZ                                                                                                                                                       | 565805                      |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

## 1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

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

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for WCDMA Band V.
2. 30 MHz to 10th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic for WCDMA Band II.

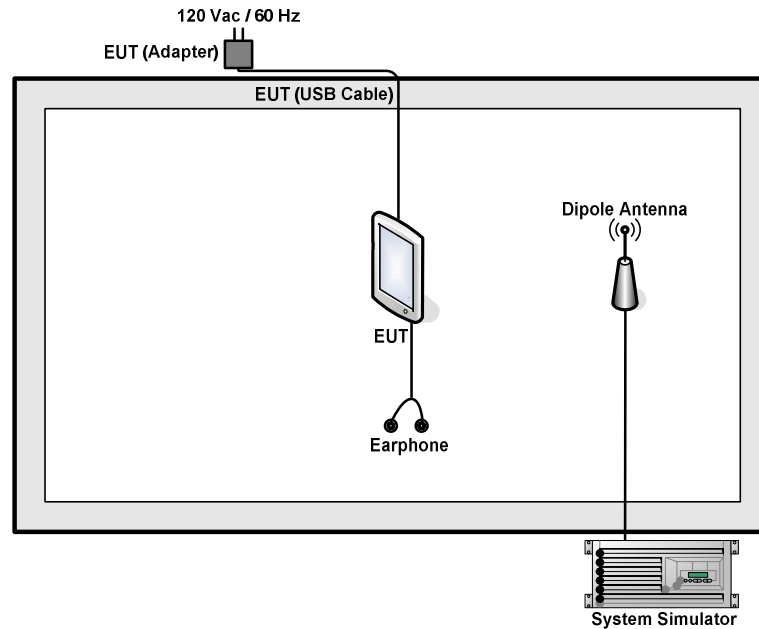
All modes and data rates and positions were investigated.

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

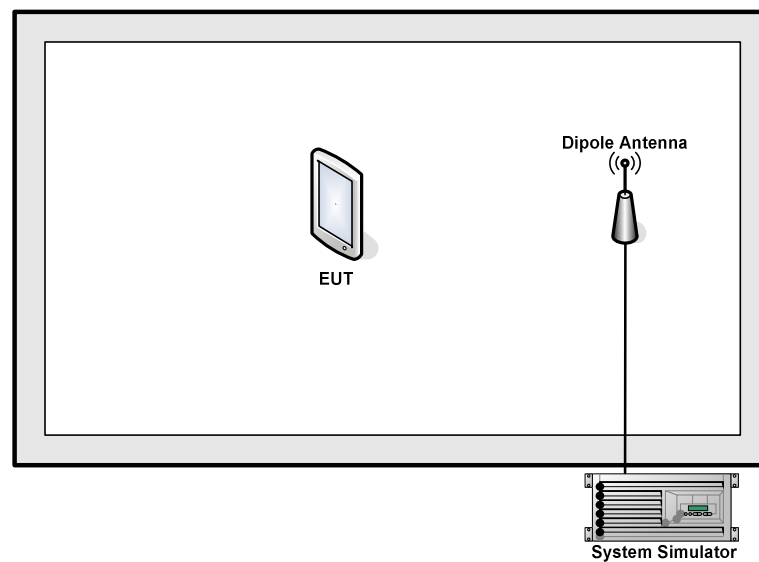
| Test Modes    |                     |                     |
|---------------|---------------------|---------------------|
| Band          | Radiated TCs        | Conducted TCs       |
| WCDMA Band V  | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |
| WCDMA Band II | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |
| WCDMA Band IV | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |

## 2.2 Connection Diagram of Test System

### Part 22H



### Part 24E, 27L



## 2.3 Support Unit used in test configuration

| Item | Equipment        | Trade Name | Model No. | FCC ID | Data Cable    | Power Cord        |
|------|------------------|------------|-----------|--------|---------------|-------------------|
| 1.   | System Simulator | R&S        | CMU 200   | N/A    | N/A           | Unshielded, 1.8 m |
| 2.   | DC Power Supply  | GW INSTEK  | GPS-3030D | N/A    | N/A           | Unshielded, 1.8 m |
| 3.   | Earphone         | Apple      | MC690ZP/A | N/A    | Shielded,1.0m | N/A               |

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

The following shows an offset computation example with RF cable loss 4.5 dB and a 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.5 + 10 = 14.5 \text{ (dB)}\end{aligned}$$

### 3 Conducted Test Result

#### 3.1 Measuring Instruments

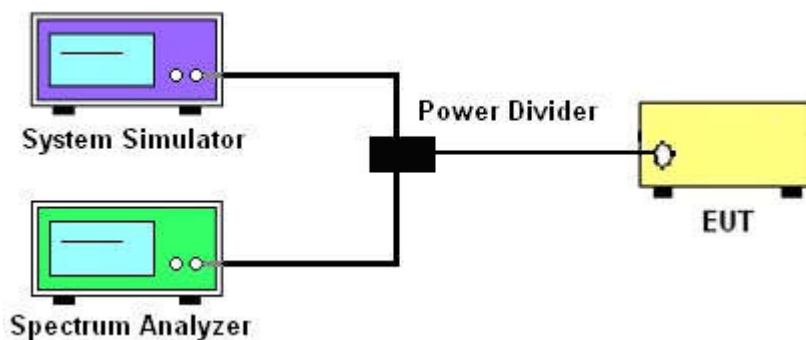
See list of measuring instruments of this test report.

#### 3.2 Test Setup

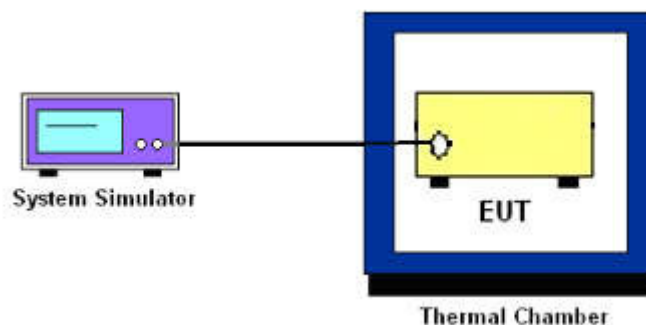
##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



##### 3.2.3 Frequency Stability



#### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

### 3.4 Conducted Output Power and ERP/EIRP

#### 3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.4.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power for WCDMA



## **3.5 Peak-to-Average Ratio**

### **3.5.1 Description of the PAR Measurement**

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

### **3.5.2 Test Procedures**

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.7.1.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. Set EUT to transmit at maximum output power.
4. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer.  
Record the maximum PAPR level associated with a probability of 0.1%.

## 3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

### 3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

### 3.6.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.  
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

## 3.7 Conducted Band Edge

### 3.7.1 Description of Conducted Band Edge Measurement

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

### 3.7.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.  
The path loss was compensated to the results for each measurement.
4. The band edges of low and high channels for the highest RF powers were measured.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13\text{dBm}$ .

### 3.8 Conducted Spurious Emission

#### 3.8.1 Description of Conducted Spurious Emission Measurement

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

#### 3.8.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
=  $P(W) - [43 + 10\log(P)]$  (dB)  
=  $[30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
= -13dBm.

## **3.9 Frequency Stability**

### **3.9.1 Description of Frequency Stability Measurement**

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

### **3.9.2 Test Procedures for Temperature Variation**

1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  steps up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

### **3.9.3 Test Procedures for Voltage Variation**

1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
2. The EUT was placed in a temperature chamber at  $20\pm 5^{\circ}\text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

## 4 Radiated Test Items

### 4.1 Measuring Instruments

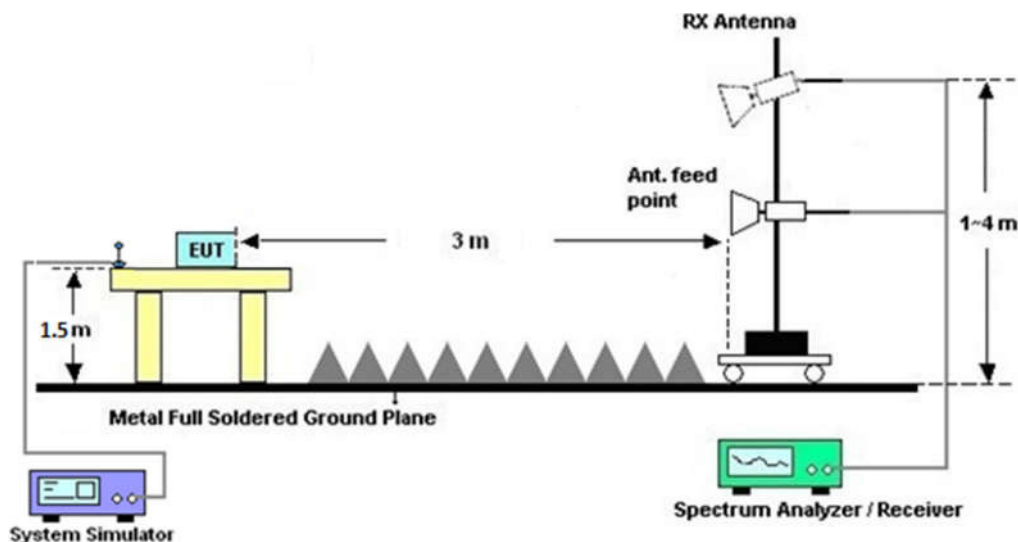
See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test from 30MHz to 1GHz



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

## **4.4 Field Strength of Spurious Radiation Measurement**

### **4.4.1 Description of Field Strength of Spurious Radiated Measurement**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### **4.4.2 Test Procedures**

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12.  $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$   
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$



## 5 List of Measuring Equipment

| Instrument                | Manufacturer              | Model No.     | Serial No.   | Characteristics | Calibration Date | Test Date                       | Due Date      | Remark                |
|---------------------------|---------------------------|---------------|--------------|-----------------|------------------|---------------------------------|---------------|-----------------------|
| Spectrum Analyzer         | R&S                       | FSV40         | 101078       | 9kHz~40GHz      | May 07, 2016     | Apr. 04, 2017                   | May 06, 2017  | Conducted (TH01-SZ)   |
| Thermal Chamber           | Ten Billion Hongzhangroup | LP-150U       | H2014081803  | -40~+150°C      | Jul. 16, 2016    | Apr. 04, 2017                   | Jul. 15, 2017 | Conducted (TH01-SZ)   |
| Radio Communicatio        | Anritsu                   | MT8820C       | 6201563777   | 2G/3G/4G (CDMA) | Jan. 03, 2017    | Apr. 04, 2017                   | Jan. 02, 2018 | Conducted (TH01-SZ)   |
| EXA Spectrum Anaiyzer     | KEYSIGHT                  | N9010A        | MY55150246   | 10Hz~44GHz      | May 07, 2016     | Apr. 11, 2017~<br>Apr. 17, 2017 | May 06, 2017  | Radiation (03CH03-SZ) |
| Bilog Antenna             | TeseQ                     | CBL6112D      | 35408        | 30MHz~2GHz      | May 21, 2016     | Apr. 11, 2017~<br>Apr. 17, 2017 | May 20, 2017  | Radiation (03CH03-SZ) |
| Double Ridge Horn Antenna | SCHWARZBECK               | BBHA9120 D    | 9120D-1355   | 1GHz~18GHz      | May 07, 2016     | Apr. 11, 2017~<br>Apr. 17, 2017 | May 06, 2017  | Radiation (03CH03-SZ) |
| SHF-EHF Horn              | com-power                 | AH-840        | 101071       | 18GHz~40GHz     | Aug. 10, 2016    | Apr. 11, 2017~<br>Apr. 17, 2017 | Aug. 09, 2017 | Radiation (03CH03-SZ) |
| Amplifier                 | Burgeon                   | BPA-530       | 102210       | 0.01Hz ~3000MHz | Oct. 11, 2016    | Apr. 11, 2017~<br>Apr. 17, 2017 | Oct. 10, 2017 | Radiation (03CH03-SZ) |
| Amplifier                 | Agilent Technologies      | 83017A        | MY39501302   | 500MHz~26.5GHz  | Jan. 06, 2017    | Apr. 11, 2017~<br>Apr. 17, 2017 | Jan. 05, 2018 | Radiation (03CH03-SZ) |
| HF Amplifier              | MITEQ                     | TTA1840-35-HG | 1871923      | 18GHz~40GHz     | Jul. 16, 2016    | Apr. 11, 2017~<br>Apr. 17, 2017 | Jul. 15, 2017 | Radiation (03CH03-SZ) |
| AC Power Source           | Chroma                    | 61601         | 616010001985 | N/A             | NCR              | Apr. 11, 2017~<br>Apr. 17, 2017 | NCR           | Radiation (03CH03-SZ) |
| Turn Table                | EM                        | EM1000        | N/A          | 0~360 degree    | NCR              | Apr. 11, 2017~<br>Apr. 17, 2017 | NCR           | Radiation (03CH03-SZ) |
| Antenna Mast              | EM                        | EM1000        | N/A          | 1 m~4 m         | NCR              | Apr. 11, 2017~<br>Apr. 17, 2017 | NCR           | Radiation (03CH03-SZ) |

NCR: No Calibration Required

## 6 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.0dB |
|-------------------------------------------------------------------------|-------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.6dB |
|-------------------------------------------------------------------------|-------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.8dB |
|-------------------------------------------------------------------------|-------|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

| Conducted Power (*Unit: dBm) |              |       |       |               |       |        |               |        |        |
|------------------------------|--------------|-------|-------|---------------|-------|--------|---------------|--------|--------|
| Band                         | WCDMA Band V |       |       | WCDMA Band II |       |        | WCDMA Band IV |        |        |
| Channel                      | 4132         | 4182  | 4233  | 9262          | 9400  | 9538   | 1312          | 1413   | 1513   |
| Frequency                    | 826.4        | 836.4 | 846.6 | 1852.4        | 1880  | 1907.6 | 1712.4        | 1732.6 | 1752.6 |
| RMC 12.2Kbps                 | 23.27        | 23.20 | 23.37 | 23.25         | 23.26 | 23.15  | 22.62         | 22.90  | 22.85  |
| HSDPA Subtest-1              | 22.24        | 22.22 | 22.45 | 22.17         | 22.25 | 22.09  | 21.65         | 21.87  | 21.88  |
| HSDPA Subtest-2              | 22.38        | 22.34 | 22.43 | 22.29         | 22.38 | 22.28  | 21.70         | 21.94  | 21.97  |
| HSDPA Subtest-3              | 21.86        | 21.86 | 21.92 | 21.78         | 21.88 | 21.80  | 21.20         | 21.44  | 21.48  |
| HSDPA Subtest-4              | 21.86        | 21.86 | 21.91 | 21.78         | 21.95 | 21.80  | 21.18         | 21.43  | 21.48  |
| HSUPA Subtest-1              | 22.44        | 21.78 | 21.77 | 21.79         | 22.41 | 21.56  | 21.08         | 21.22  | 21.53  |
| HSUPA Subtest-2              | 21.34        | 21.27 | 21.41 | 21.33         | 21.39 | 20.99  | 20.65         | 20.84  | 20.95  |
| HSUPA Subtest-3              | 20.76        | 20.87 | 21.11 | 21.12         | 21.18 | 20.55  | 20.34         | 20.53  | 20.54  |
| HSUPA Subtest-4              | 21.30        | 21.44 | 21.99 | 21.72         | 21.99 | 21.87  | 21.20         | 21.52  | 21.01  |
| HSUPA Subtest-5              | 22.40        | 22.30 | 22.48 | 22.30         | 22.40 | 22.30  | 21.70         | 21.90  | 21.90  |

**ERP/EIRP**

| WCDMA Band V ( $G_T - L_C = -3.50\text{dB}$ ) |        |        |        |
|-----------------------------------------------|--------|--------|--------|
| Channel                                       | 4132   | 4182   | 4233   |
|                                               | (Low)  | (Mid)  | (High) |
| Frequency                                     | 826.4  | 836.4  | 846.6  |
| (MHz)                                         |        |        |        |
| Conducted Power (dBm)                         | 23.27  | 23.20  | 23.37  |
| Conducted Power (Watts)                       | 0.2123 | 0.2089 | 0.2173 |
| ERP(dBm)                                      | 17.62  | 17.55  | 17.72  |
| ERP(Watts)                                    | 0.0578 | 0.0569 | 0.0592 |

| WCDMA Band II ( $G_T - L_C = -2.50\text{dB}$ ) |        |        |        |
|------------------------------------------------|--------|--------|--------|
| Channel                                        | 9262   | 9400   | 9538   |
|                                                | (Low)  | (Mid)  | (High) |
| Frequency                                      | 1852.4 | 1880   | 1907.6 |
| (MHz)                                          |        |        |        |
| Conducted Power (dBm)                          | 23.25  | 23.26  | 23.15  |
| Conducted Power (Watts)                        | 0.2113 | 0.2118 | 0.2065 |
| EIRP(dBm)                                      | 20.75  | 20.76  | 20.65  |
| EIRP(Watts)                                    | 0.1189 | 0.1191 | 0.1161 |

| WCDMA Band IV ( $G_T - L_C = -2.50\text{dB}$ ) |        |        |        |
|------------------------------------------------|--------|--------|--------|
| Channel                                        | 1312   | 1413   | 1513   |
|                                                | (Low)  | (Mid)  | (High) |
| Frequency                                      | 1712.4 | 1732.6 | 1752.6 |
| (MHz)                                          |        |        |        |
| Conducted Power (dBm)                          | 22.62  | 22.90  | 22.85  |
| Conducted Power (Watts)                        | 0.1828 | 0.1950 | 0.1928 |
| EIRP(dBm)                                      | 20.12  | 20.40  | 20.35  |
| EIRP(Watts)                                    | 0.1028 | 0.1096 | 0.1084 |

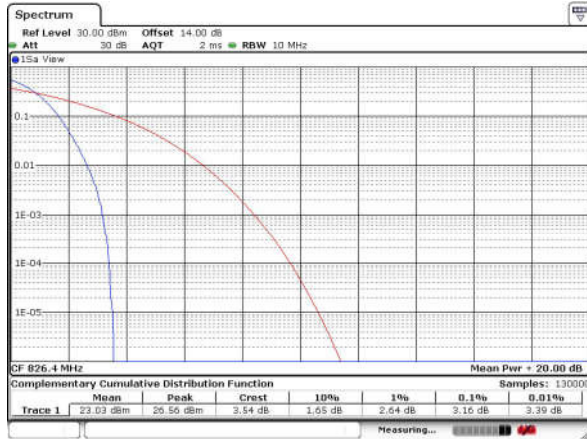
**Peak-to-Average Ratio**

| Mode       | WCDMA Band V(dB) | WCDMA Band II(dB) | WCDMA Band IV(dB) | Limit: 13dB |
|------------|------------------|-------------------|-------------------|-------------|
| Mod.       | RMC 12.2Kbps     | RMC 12.2Kbps      | RMC 12.2Kbps      | Result      |
| Lowest CH  | 3.16             | 3.25              | 2.90              | <b>PASS</b> |
| Middle CH  | 3.07             | 3.39              | 3.07              |             |
| Highest CH | 3.28             | 3.28              | 3.13              |             |



WCDMA Band V (RMC 12.2Kbps)

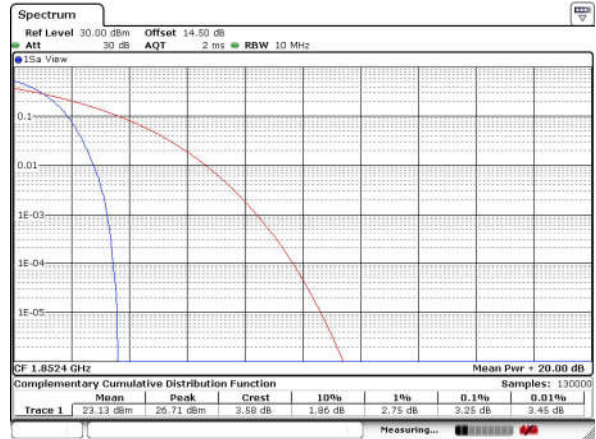
Lowest Channel



Date: 4.APR.2017 12:16:05

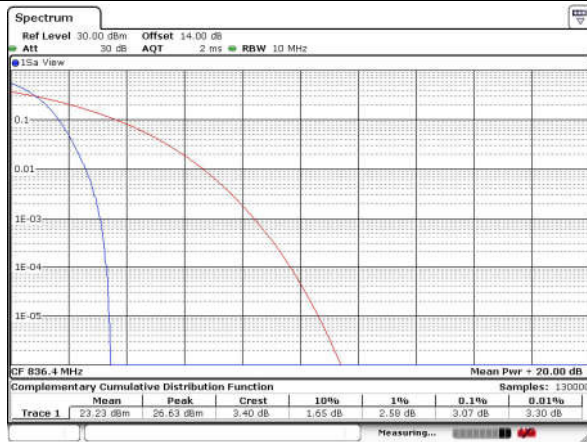
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



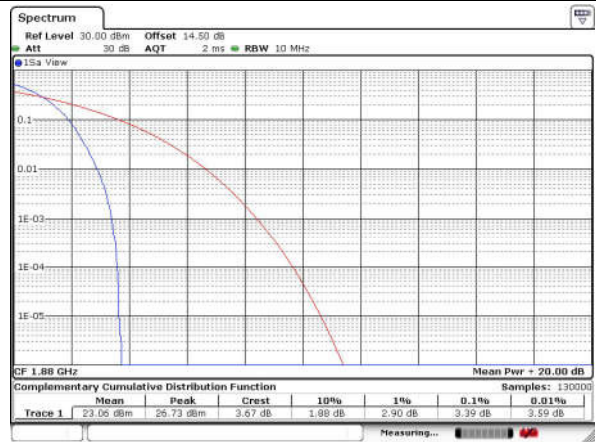
Date: 4.APR.2017 12:14:58

Middle Channel



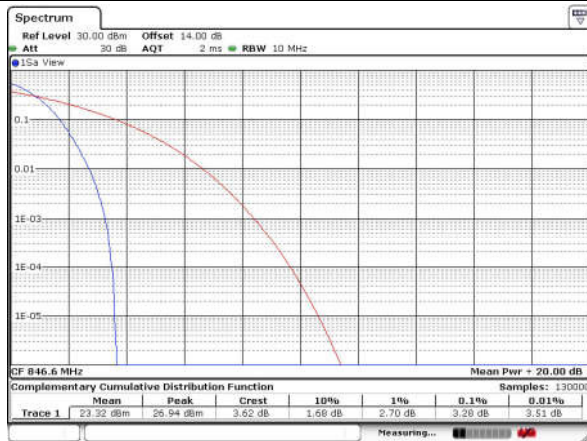
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Middle Channel



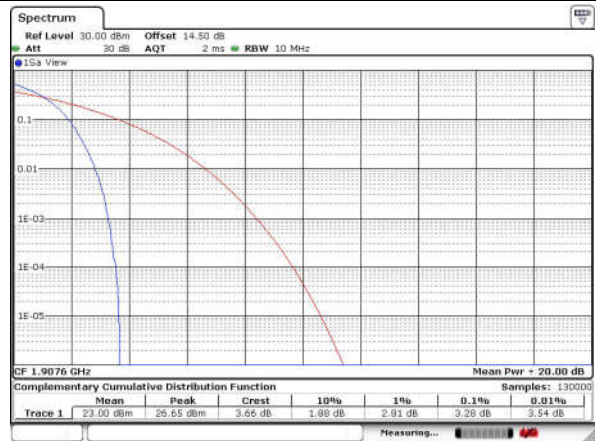
Date: 4.APR.2017 12:14:19

Highest Channel



Date: 4.APR.2017 12:19:45

Highest Channel

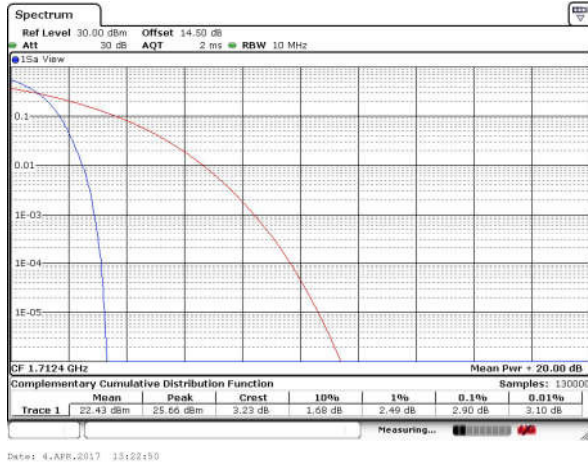


Date: 4.APR.2017 12:14:42



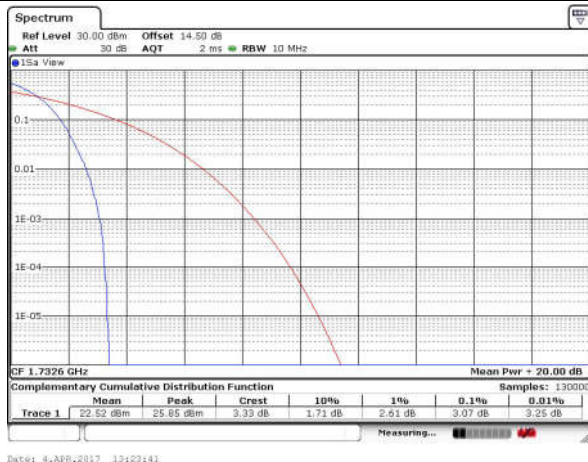
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



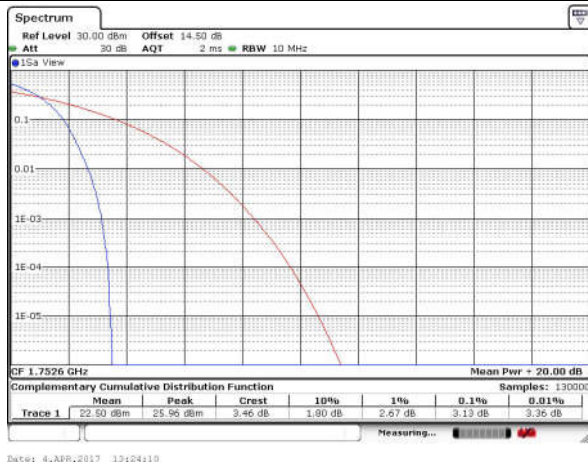
Date: 4.APR.2017 13:22:50

Middle Channel



Date: 4.APR.2017 13:23:41

Highest Channel



Date: 4.APR.2017 13:24:10

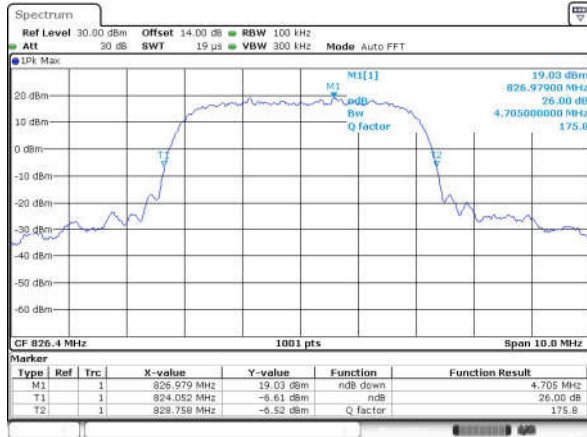
**26dB Bandwidth**

| Mode       | WCDMA Band V(MHz) | WCDMA Band II(MHz) | WCDMA Band IV(MHz) |
|------------|-------------------|--------------------|--------------------|
| Mod.       | RMC 12.2Kbps      | RMC 12.2Kbps       | RMC 12.2Kbps       |
| Lowest CH  | 4.71              | 4.72               | 4.74               |
| Middle CH  | 4.72              | 4.71               | 4.73               |
| Highest CH | 4.72              | 4.72               | 4.71               |



## WCDMA Band V (RMC 12.2Kbps)

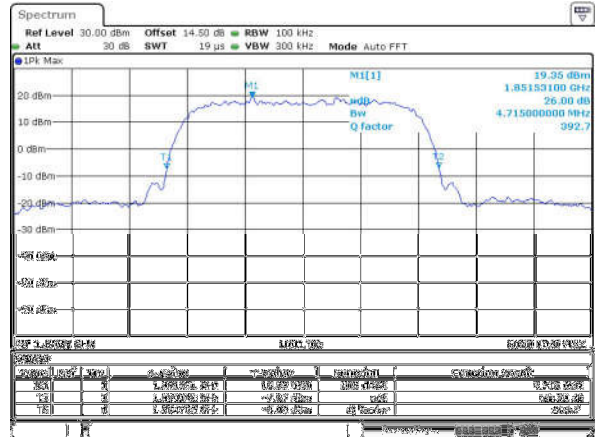
## Lowest Channel



Date: 4, APR, 2017 11:56:04

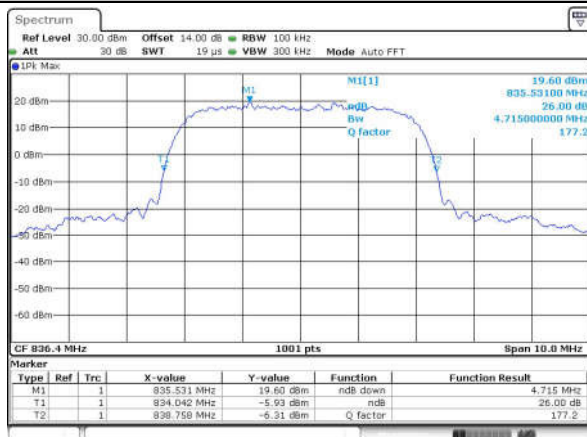
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Channel



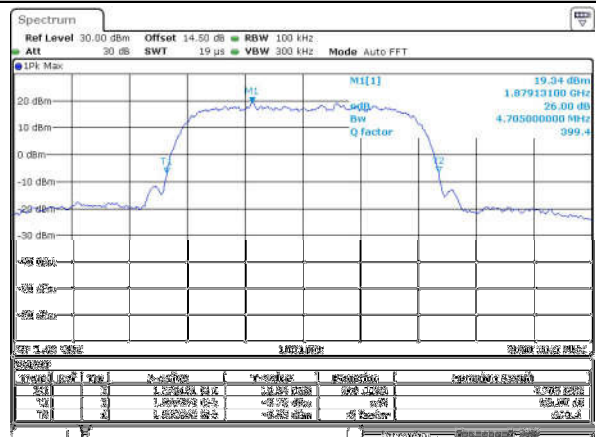
Date: 4, APR, 2017 11:56:04

## Middle Channel



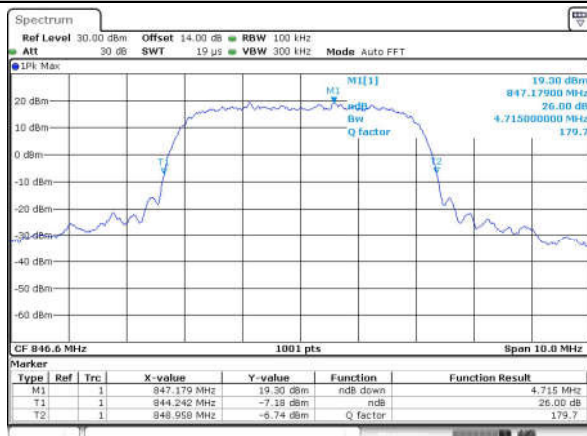
Date: 4, APR, 2017 11:57:40

## Middle Channel



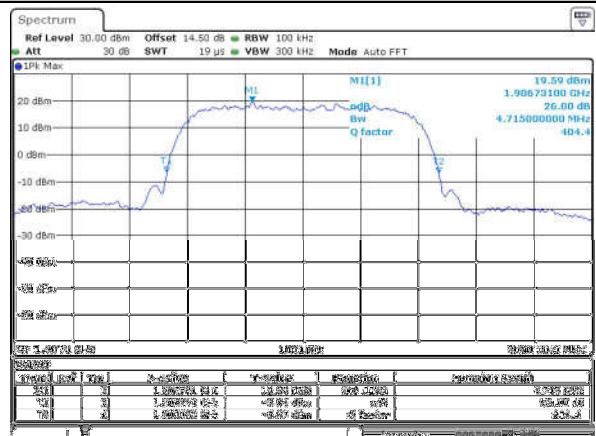
Date: 4, APR, 2017 11:57:40

## Highest Channel



Date: 4, APR, 2017 11:57:43

## Highest Channel

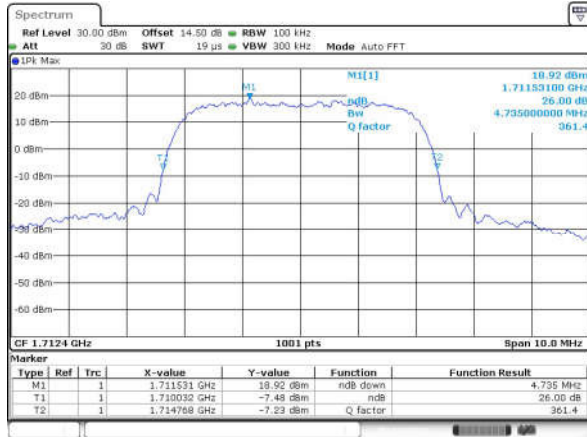


Date: 4, APR, 2017 11:57:43

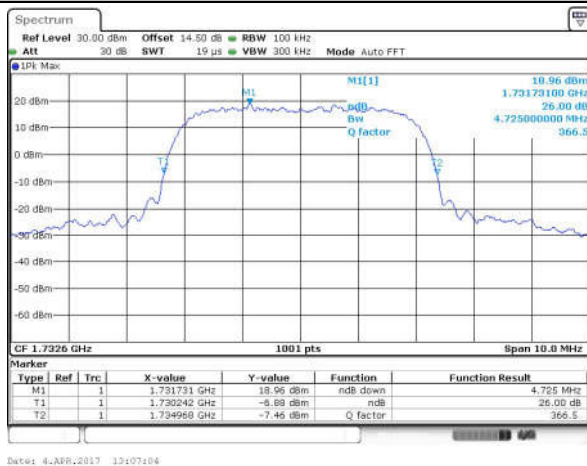


## WCDMA Band IV (RMC 12.2Kbps)

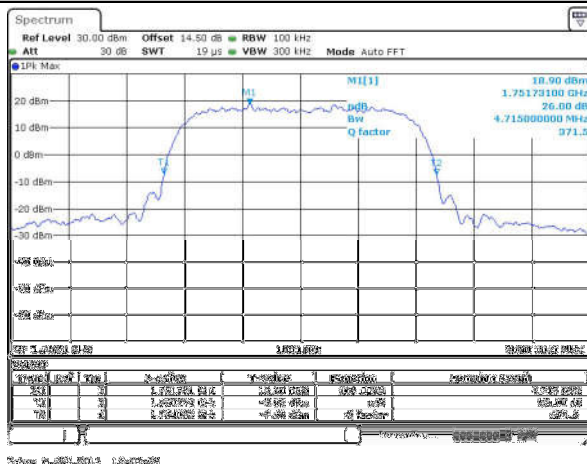
## Lowest Channel



## Middle Channel



## Highest Channel



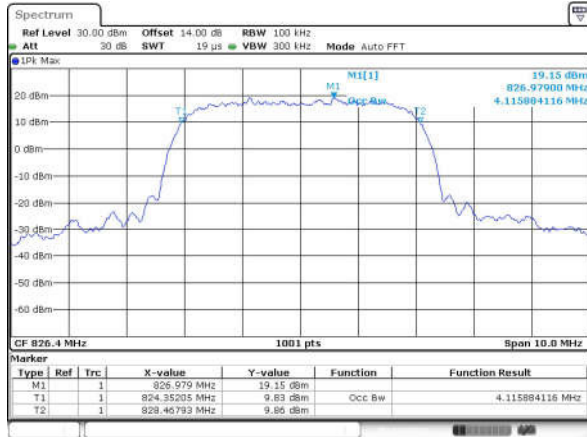
**Occupied Bandwidth**

| Mode       | WCDMA Band V(MHz) | WCDMA Band II(MHz) | WCDMA Band IV(MHz) |
|------------|-------------------|--------------------|--------------------|
| Mod.       | RMC 12.2Kbps      | RMC 12.2Kbps       | RMC 12.2Kbps       |
| Lowest CH  | 4.12              | 4.15               | 4.15               |
| Middle CH  | 4.13              | 4.15               | 4.15               |
| Highest CH | 4.13              | 4.15               | 4.16               |



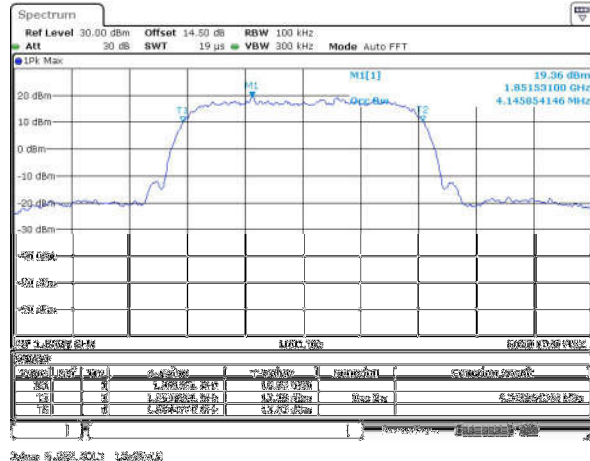
## WCDMA Band V (RMC 12.2Kbps)

## Lowest Channel

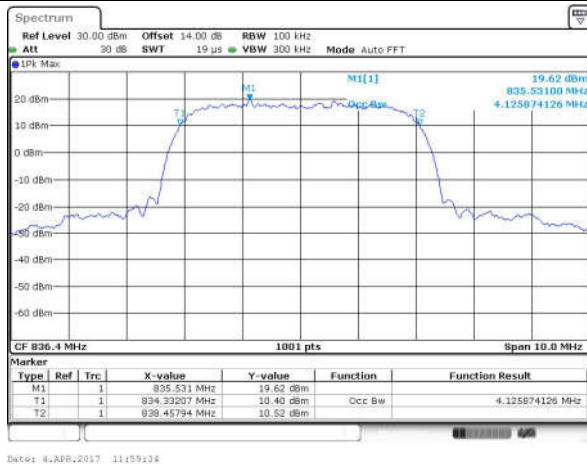


## WCDMA Band II (RMC 12.2Kbps)

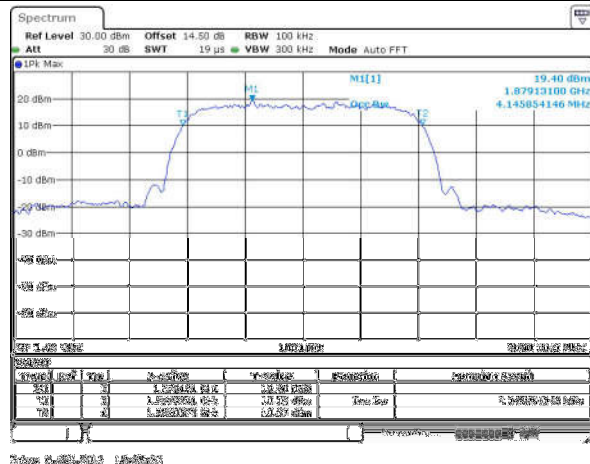
## Lowest Channel



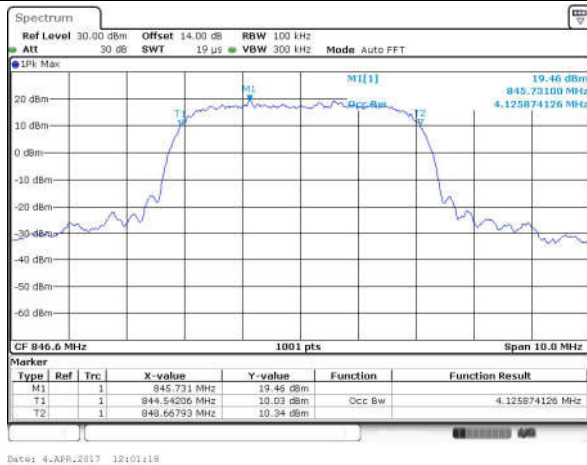
## Middle Channel



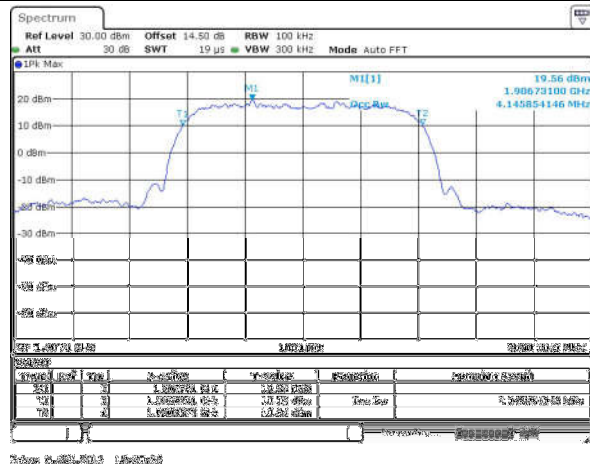
## Middle Channel



## Highest Channel



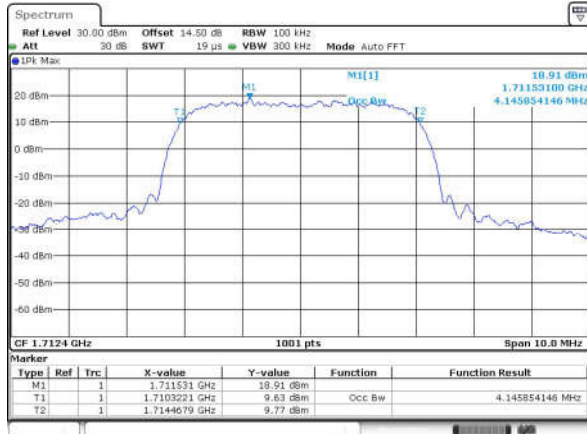
## Highest Channel



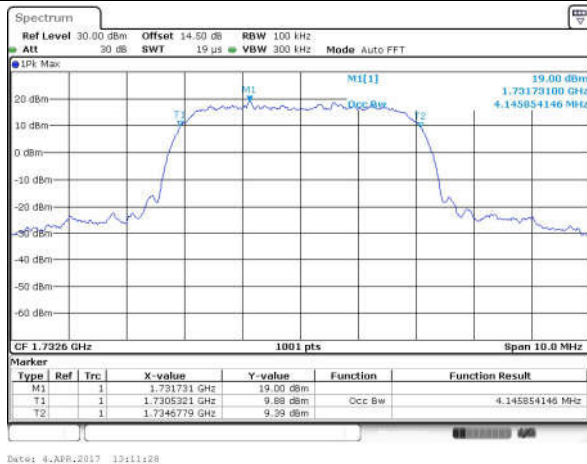


WCDMA Band IV (RMC 12.2Kbps)

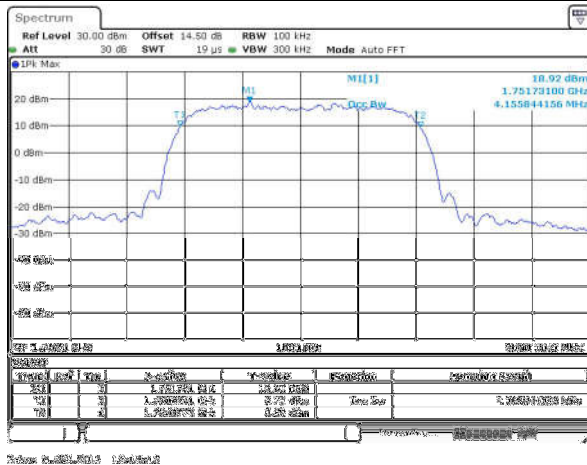
Lowest Channel

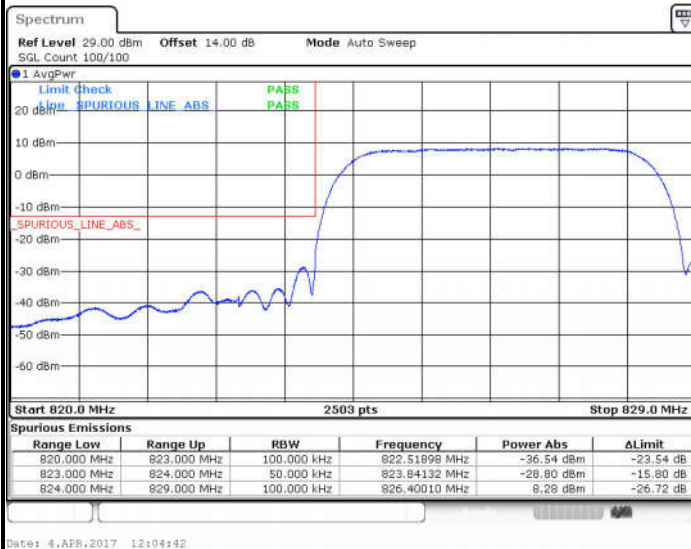
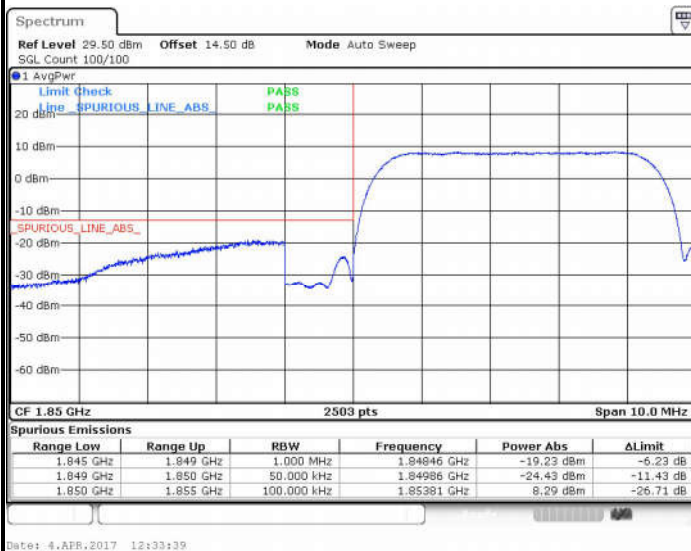
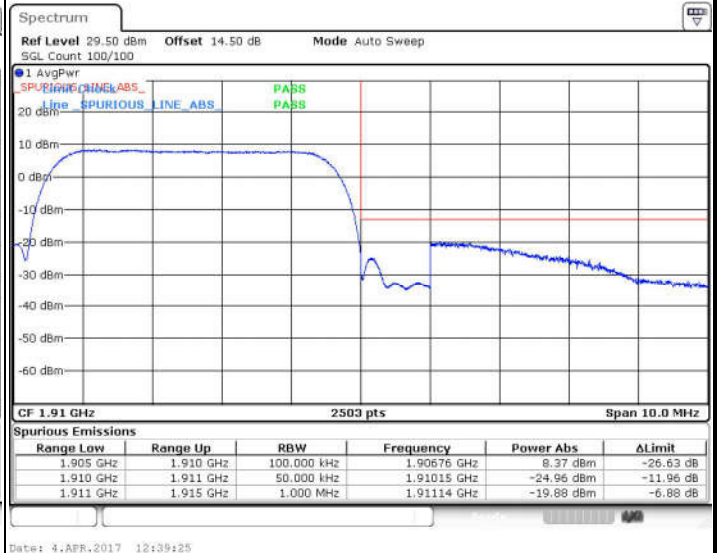


Middle Channel



Highest Channel

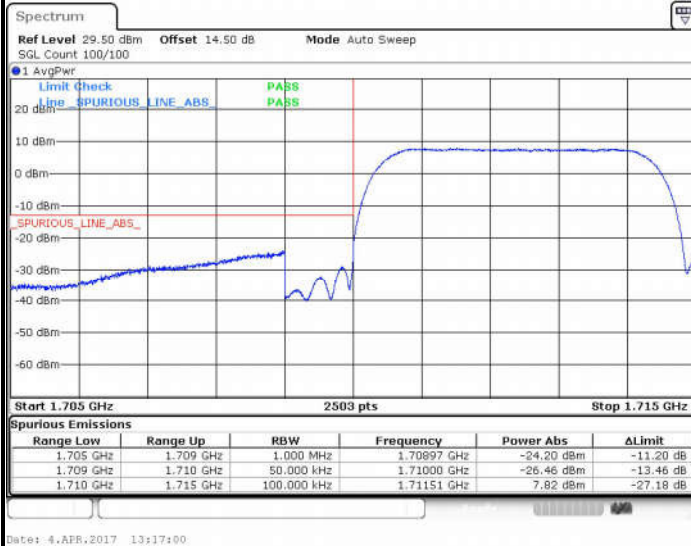


**Conducted Band Edge****WCDMA Band V (RMC 12.2Kbps)****Lowest Band Edge****Highest Band Edge****WCDMA Band II (RMC 12.2Kbps)****Lowest Band Edge****Highest Band Edge**

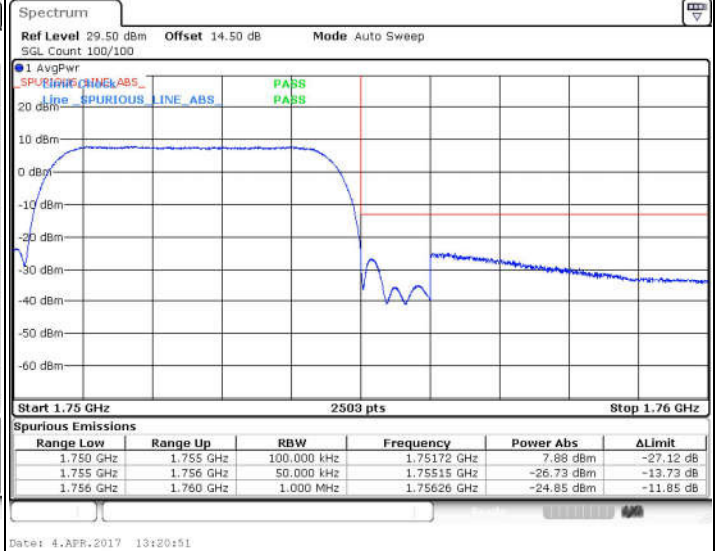


## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Band Edge



## Highest Band Edge

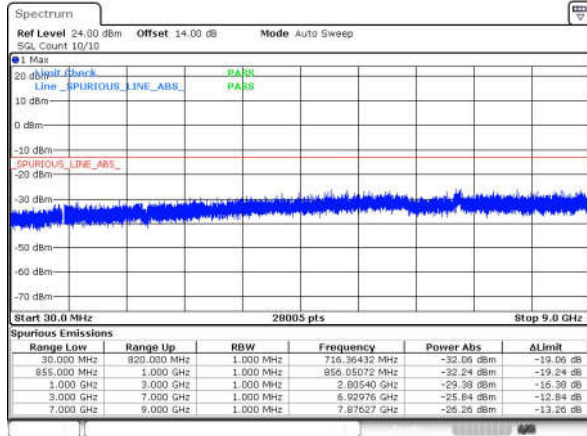




## Conducted Spurious Emission

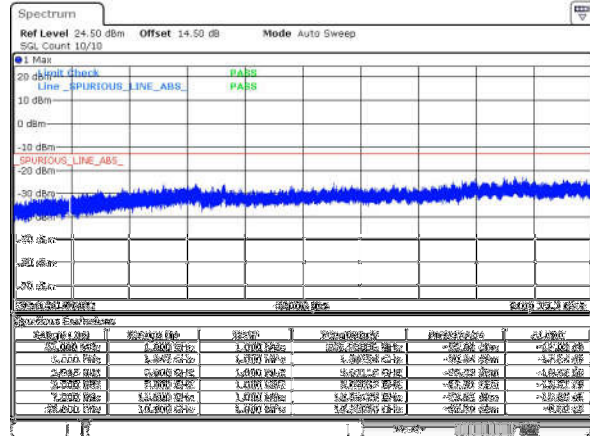
### WCDMA Band V (RMC 12.2Kbps)

#### Lowest Channel

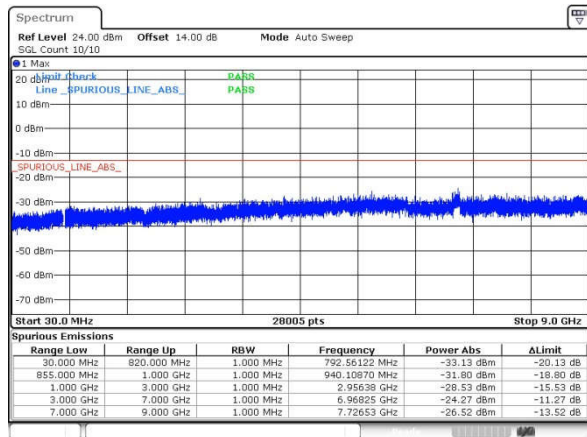


### WCDMA Band II (RMC 12.2Kbps)

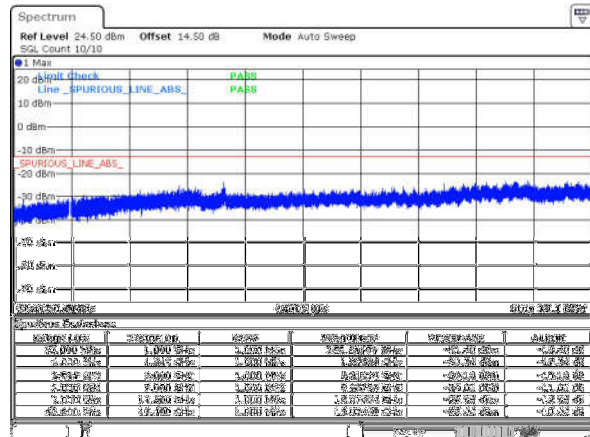
#### Lowest Channel



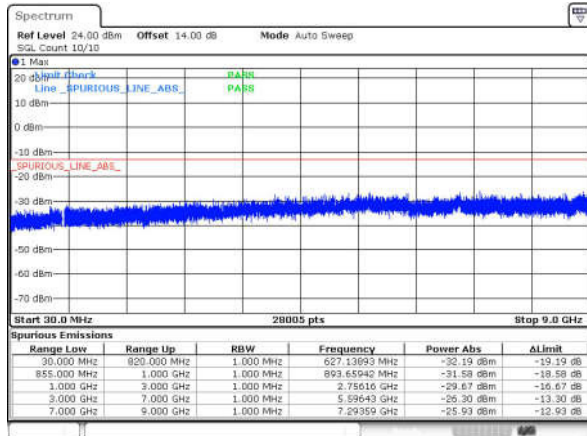
#### Middle Channel



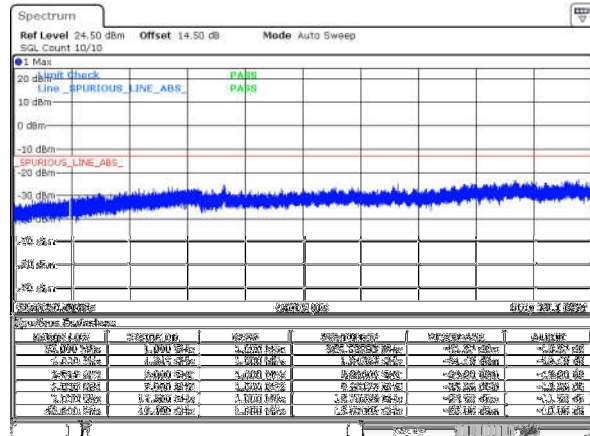
#### Middle Channel

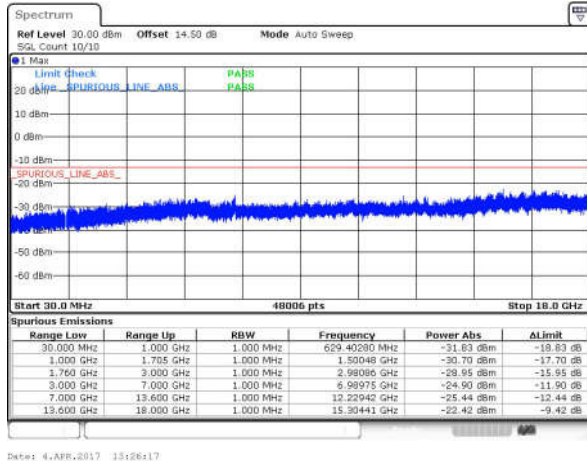
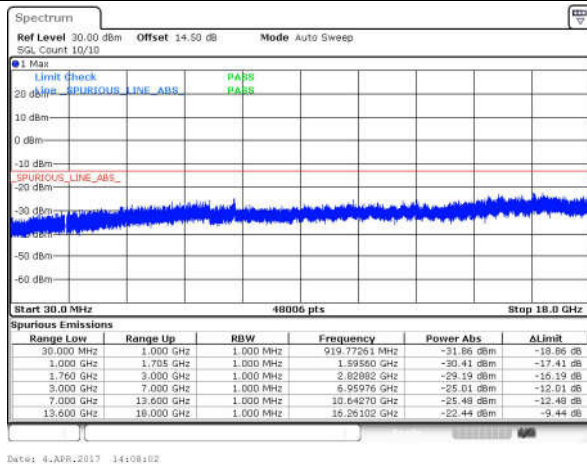
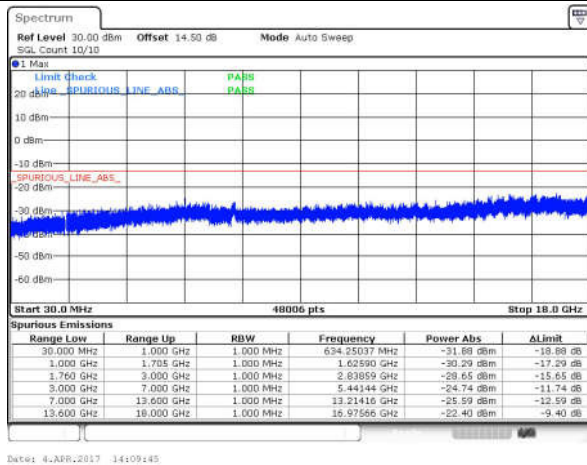


#### Highest Channel



#### Highest Channel



**WCDMA Band IV (RMC 12.2Kbps)****Lowest Channel****Middle Channel****Highest Channel**

**Frequency Stability**

| Test Conditions  | Middle Channel    | WCDMA Band V<br>(RMC 12.2Kbps) | Limit<br>2.5ppm |
|------------------|-------------------|--------------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                | Result          |
| 50               | Normal Voltage    | 0.0016                         | PASS            |
| 40               | Normal Voltage    | 0.0064                         |                 |
| 30               | Normal Voltage    | 0.0048                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0011                         |                 |
| 0                | Normal Voltage    | 0.0005                         |                 |
| -10              | Normal Voltage    | 0.0117                         |                 |
| -20              | Normal Voltage    | 0.0005                         |                 |
| -30              | Normal Voltage    | 0.0018                         |                 |
| 20               | Maximum Voltage   | 0.0032                         |                 |
| 20               | Normal Voltage    | 0.0000                         |                 |
| 20               | Battery End Point | 0.0090                         |                 |

**Note:** Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V

| Test Conditions  | Middle Channel    | WCDMA Band II<br>(RMC 12.2Kbps) | Limit<br>Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                 | Result           |
| 50               | Normal Voltage    | 0.0021                          | PASS             |
| 40               | Normal Voltage    | 0.0059                          |                  |
| 30               | Normal Voltage    | 0.0043                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0080                          |                  |
| 0                | Normal Voltage    | 0.0085                          |                  |
| -10              | Normal Voltage    | 0.0011                          |                  |
| -20              | Normal Voltage    | 0.0085                          |                  |
| -30              | Normal Voltage    | 0.0005                          |                  |
| 20               | Maximum Voltage   | 0.0043                          |                  |
| 20               | Normal Voltage    | 0.0000                          |                  |
| 20               | Battery End Point | 0.0053                          |                  |

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



| Test Conditions  | Middle Channel    | WCDMA Band IV<br>(RMC 12.2Kbps) | Limit<br>Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                 | Result           |
| 50               | Normal Voltage    | 0.0190                          | PASS             |
| 40               | Normal Voltage    | 0.0012                          |                  |
| 30               | Normal Voltage    | 0.0179                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0132                          |                  |
| 0                | Normal Voltage    | 0.0087                          |                  |
| -10              | Normal Voltage    | 0.0035                          |                  |
| -20              | Normal Voltage    | 0.0052                          |                  |
| -30              | Normal Voltage    | 0.0087                          |                  |
| 20               | Maximum Voltage   | 0.0002                          |                  |
| 20               | Normal Voltage    | 0.0000                          |                  |
| 20               | Battery End Point | 0.0075                          |                  |

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

| WCDMA Band V(RMC 12.2Kbps) |                      |                |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 1652.8               | -65.16         | -13              | -52.16                  | -72.52                  | -71.85                   | 0.56                       | 9.40                        | H                     |
|                            | 2479.2               | -54.27         | -13              | -41.27                  | -65.73                  | -61.98                   | 0.74                       | 10.60                       | H                     |
|                            | 3305.6               | -62.91         | -13              | -49.91                  | -76.30                  | -72.51                   | 0.85                       | 12.60                       | H                     |
|                            | 1652.8               | -64.18         | -13              | -51.18                  | -71.59                  | -70.87                   | 0.56                       | 9.40                        | V                     |
|                            | 2479.2               | -53.44         | -13              | -40.44                  | -64.49                  | -61.15                   | 0.74                       | 10.60                       | V                     |
|                            | 3305.6               | -62.66         | -13              | -49.66                  | -76.25                  | -72.26                   | 0.85                       | 12.60                       | V                     |
| Middle                     | 1672                 | -64.14         | -13              | -51.14                  | -71.27                  | -70.83                   | 0.56                       | 9.40                        | H                     |
|                            | 2510                 | -53.62         | -13              | -40.62                  | -65.01                  | -61.33                   | 0.74                       | 10.60                       | H                     |
|                            | 3346                 | -63.26         | -13              | -50.26                  | -76.54                  | -72.86                   | 0.85                       | 12.60                       | H                     |
|                            | 1672                 | -63.29         | -13              | -50.29                  | -70.42                  | -69.98                   | 0.56                       | 9.40                        | V                     |
|                            | 2510                 | -53.50         | -13              | -40.50                  | -64.49                  | -61.21                   | 0.74                       | 10.60                       | V                     |
|                            | 3346                 | -61.85         | -13              | -48.85                  | -75.36                  | -71.45                   | 0.85                       | 12.60                       | V                     |
| Highest                    | 1693.2               | -64.30         | -13              | -51.30                  | -71.57                  | -70.99                   | 0.56                       | 9.40                        | H                     |
|                            | 2539.8               | -53.44         | -13              | -40.44                  | -64.55                  | -61.15                   | 0.74                       | 10.60                       | H                     |
|                            | 3386.4               | -63.39         | -13              | -50.39                  | -76.61                  | -72.99                   | 0.85                       | 12.60                       | H                     |
|                            | 1693.2               | -62.24         | -13              | -49.24                  | -69.51                  | -68.93                   | 0.56                       | 9.40                        | V                     |
|                            | 2539.8               | -53.16         | -13              | -40.16                  | -64.05                  | -60.87                   | 0.74                       | 10.60                       | V                     |
|                            | 3386.4               | -62.00         | -13              | -49.00                  | -75.52                  | -71.60                   | 0.85                       | 12.60                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| WCDMA Band II(RMC 12.2Kbps) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                     | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                      | 3704.8               | -57.52          | -13              | -44.52                  | -72.74                  | -63.56                   | 6.56                       | 12.60                       | H                     |
|                             | 5557.2               | -58.52          | -13              | -45.52                  | -77.94                  | -63.62                   | 8                          | 13.10                       | H                     |
|                             | 7409.6               | -53.71          | -13              | -40.71                  | -78.11                  | -55.44                   | 9.57                       | 11.30                       | H                     |
|                             | 3704.8               | -59.26          | -13              | -46.26                  | -74.79                  | -65.30                   | 6.56                       | 12.6                        | V                     |
|                             | 5557.2               | -58.20          | -13              | -45.20                  | -78.22                  | -63.30                   | 8                          | 13.1                        | V                     |
|                             | 7409.6               | -53.47          | -13              | -40.47                  | -77.77                  | -55.20                   | 9.57                       | 11.3                        | V                     |
| Middle                      | 3760                 | -56.46          | -13              | -43.46                  | -71.74                  | -62.50                   | 6.56                       | 12.60                       | H                     |
|                             | 5640                 | -59.06          | -13              | -46.06                  | -78.41                  | -64.16                   | 8                          | 13.10                       | H                     |
|                             | 7520                 | -54.74          | -13              | -41.74                  | -78.33                  | -56.47                   | 9.57                       | 11.30                       | H                     |
|                             | 3760                 | -57.87          | -13              | -44.87                  | -73.42                  | -63.91                   | 6.56                       | 12.6                        | V                     |
|                             | 5640                 | -58.35          | -13              | -45.35                  | -78.27                  | -63.45                   | 8                          | 13.1                        | V                     |
|                             | 7520                 | -54.64          | -13              | -41.64                  | -78.28                  | -56.37                   | 9.57                       | 11.3                        | V                     |
| Highest                     | 3815.2               | -54.77          | -13              | -41.77                  | -70.17                  | -60.81                   | 6.56                       | 12.60                       | H                     |
|                             | 5722.8               | -59.05          | -13              | -46.05                  | -78.66                  | -64.15                   | 8                          | 13.10                       | H                     |
|                             | 7630.4               | -54.89          | -13              | -41.89                  | -77.97                  | -56.62                   | 9.57                       | 11.30                       | H                     |
|                             | 3815.2               | -56.31          | -13              | -43.31                  | -71.93                  | -62.35                   | 6.56                       | 12.6                        | V                     |
|                             | 5722.8               | -58.35          | -13              | -45.35                  | -78.66                  | -63.45                   | 8                          | 13.1                        | V                     |
|                             | 7630.4               | -55.02          | -13              | -42.02                  | -78.23                  | -56.75                   | 9.57                       | 11.3                        | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| WCDMA Band IV(RMC 12.2Kbps) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                     | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                      | 3424.8               | -62.42          | -13              | -49.42                  | -75.92                  | -68.84                   | 6.18                       | 12.60                       | H                     |
|                             | 5137.2               | -59.36          | -13              | -46.36                  | -78.70                  | -64.32                   | 7.74                       | 12.70                       | H                     |
|                             | 6849.6               | -57.25          | -13              | -44.25                  | -78.83                  | -59.95                   | 9                          | 11.70                       | H                     |
|                             | 3424.8               | -63.02          | -13              | -50.02                  | -76.87                  | -69.44                   | 6.18                       | 12.60                       | V                     |
|                             | 5137.2               | -58.83          | -13              | -45.83                  | -78.9                   | -63.79                   | 7.74                       | 12.70                       | V                     |
|                             | 6849.6               | -56.75          | -13              | -43.75                  | -78.93                  | -59.45                   | 9                          | 11.70                       | V                     |
| Middle                      | 3465.2               | -61.76          | -13              | -48.76                  | -75.58                  | -68.18                   | 6.18                       | 12.60                       | H                     |
|                             | 5197.8               | -59.64          | -13              | -46.64                  | -78.97                  | -64.60                   | 7.74                       | 12.70                       | H                     |
|                             | 6930.4               | -56.51          | -13              | -43.51                  | -78.70                  | -59.21                   | 9                          | 11.70                       | H                     |
|                             | 3465.2               | -62.60          | -13              | -49.60                  | -76.78                  | -69.02                   | 6.18                       | 12.60                       | V                     |
|                             | 5197.8               | -58.61          | -13              | -45.61                  | -78.61                  | -63.57                   | 7.74                       | 12.70                       | V                     |
|                             | 6930.4               | -56.22          | -13              | -43.22                  | -78.94                  | -58.92                   | 9                          | 11.70                       | V                     |
| Highest                     | 3505.2               | -62.18          | -13              | -49.18                  | -76.31                  | -68.60                   | 6.18                       | 12.60                       | H                     |
|                             | 5257.8               | -59.93          | -13              | -46.93                  | -78.97                  | -64.89                   | 7.74                       | 12.70                       | H                     |
|                             | 7010.4               | -55.84          | -13              | -42.84                  | -78.63                  | -58.54                   | 9                          | 11.70                       | H                     |
|                             | 3505.2               | -62.40          | -13              | -49.40                  | -76.9                   | -68.82                   | 6.18                       | 12.60                       | V                     |
|                             | 5257.8               | -59.45          | -13              | -46.45                  | -78.89                  | -64.41                   | 7.74                       | 12.70                       | V                     |
|                             | 7010.4               | -55.33          | -13              | -42.33                  | -78.58                  | -58.03                   | 9                          | 11.70                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.