



# EMC TEST REPORT

No. I18Z60848-EMC02

for

**Shenzhen Tinno Mobile Technology Corp.**

**smart phone**

**Model Name: C210AE**

**FCC ID: 2AM86WC210**

with

**Hardware Version: V0.3**

**Software Version: C210AE-V02**

**Issued Date: 2018-06-22**



**Note:**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I18Z60848-EMC02	Rev.0	1st edition	2018-06-22

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## 1. Test Laboratory

### 1.1. Testing Location

#### Location 2: CTTL(Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road, Haidian District, Beijing, P. R. China 100191

### 1.2. Testing Environment

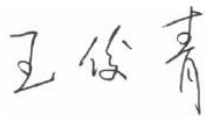
Normal Temperature: 15-35°C  
Relative Humidity: 20-75%  
Air pressure 980 - 1040 hPa

The climatic requirements above are general exclude the special requirements for dedicated test environments listed in section 5 and some specific test cases in other parts of this report.

### 1.3. Project data

Testing Start Date: 2018-06-13  
Testing End Date: 2018-06-22

### 1.4. Signature



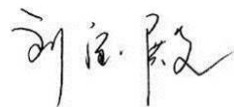
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## **2. Client Information**

### **2.1. Certification Manager Information**

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### **2.2. Applicant Information**

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### **2.3. Manufacturer Information**

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Contact Person: Jingwen.Guo  
Contact Email: jingwen.guo@tinno.com  
Telephone: 0755-86095550  
Fax: 0755-86095551



### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

Description	smart phone
FCC ID	2AM86WC210
Antenna	Internal
Power supply	Battery
Extreme vol. Limits	3.55VDC to 4.35VDC (nominal: 3.8VDC)

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MIIT of People's Republic of China.

#### **3.2. Internal Identification of EUT used during the test**

<b>EUT ID*</b>	<b>IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
EUT4	35796009002178	V0.3	C210AE-V02

\*EUT ID: is used to identify the test sample in the lab internally.

#### **3.3. Internal Identification of AE used during the test**

<b>AE ID*</b>	<b>Description</b>	<b>SN</b>	<b>Note</b>
AE1	battery	/	/

AE1

Model	C210AEBATT
Manufacturer	Ningbo Veken Battery Co., Ltd
Capacitance	2500mAh
Nominal voltage	3.8V

\*AE ID: is used to identify the test sample in the lab internally.



### **3.4. General Description**

Equipment Under Test (EUT) is a model of smart phone with integrated antenna.

It supports CDMA Class 0, CDMA Class 1 and CDMA Class 10 with 1X RTT and EvDo, LTE FDD 13/25/26 and LTE TDD 41.

It has MP3, Camera, FM, USB memory, Bluetooth (EDR and BLE), Wi-Fi (802.11b/g/n) and GNSS functions.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

### **3.5. EUT set-ups**

<b>EUT Set-up No.</b>	<b>Combination of EUT and AE</b>	<b>Remarks</b>
Set.10	EUT4 + AE1	ERP/EIRP/RSE tests



## 4. Reference Documents

### 4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-16 Edition
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-16 Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
KDB 971168 D01	Measurement Guidance for Certification of Licensed Digital Transmitters	v02r02



## 5. LABORATORY ENVIRONMENT

Fully-anechoic chamber FAC-3 (9 meters×6.5 meters×4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω
Site voltage standing-wave ratio ( $S_{VSWR}$ )	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 4000 MHz

## 6. SUMMARY OF TEST RESULTS

### 6.1. Summary of test results

Abbreviations used in this clause:		
Verdict Column	P	Pass
	F	Fail
	NA	Not applicable
	NM	Not measured
Location Column	1/2/3/4	The test is performed in test location 1, 2, 3 or 4 which are described in section 1.1 of this report

#### CDMA800

Items	Test Name	Clause in FCC rules	Section in this report	Verdict	Test Location
1	Output Power	22.913(a.2)	5.4	P	Shouxiang
2	Emission Limit	22.917(a), 2.1051	5.5	P	Shouxiang

#### CDMA1900

Items	Test Name	Clause in FCC rules	Section in this report	Verdict	Test Location
1	Output Power	24.232(c)	5.4	P	Shouxiang
2	Emission Limit	24.238(a), 2.1051	5.5	P	Shouxiang

### 6.2. Statements

The test cases listed in section 6.1 of this report for the EUT specified in section 3 were performed by TMC according to the standards or reference documents in section 4.1

The EUT met all applicable requirements of the standards or reference documents in section 4.1. This report only deals with the CDMA functions among the features described in section 3.



## 7. Test Equipments Utilized

NO.	NAME	TYPE	PRODUCER	SERIES NUMBER	CAL. DUE DATE	CAL. INTERVAL
1.	EMI Antenna	VULB 9163	Schwarzbeck	9163-235	2018-11-30	3 Years
2.	EMI Antenna	3117	ETS-Lindgren	00119024	2020-01-21	3 Years
3.	EMI Antenna	3117	ETS-Lindgren	00058889	2021-01-12	3 Years
4.	Signal Generator	N5183A	Agilent	MY49060052	2019-03-31	1 Year
5.	Spectrum Analyzer	E4440A	Agilent	MY48250642	2019-03-31	1 Year
6.	Universal Radio Communication Tester	E5515C	Agilent	MY48363198	2018-06-22	1 Year
7.	Universal Radio Communication Tester	CMW500	R&S	143008	2018-12-26	1 Year

## Test Software Utilized

Test Item	Test Software and Version	Software Vendor
ERP/EIRP/RSE	Tile V7.2.3.5	ETS-Lindgren

## **ANNEX A: MEASUREMENT RESULTS**

### **A.1 OUTPUT POWER**

#### **Reference**

FCC: CFR Part 22.913

#### **A.1.1 Summary**

During the process of testing, the EUT was controlled via Agilent Universal Radio Communication Tester (E5515C) to ensure max power transmission and proper modulation.

This result contains peak output power and ERP/EIRP measurements for the EUT.

In all cases, output power is within the specified limits.

#### **A.1.2 Radiated**

##### **A.1.2.1 Description**

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

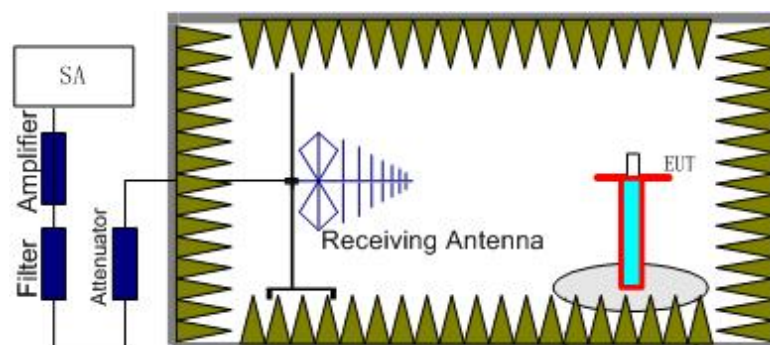
Rule Part 22.913(a)(2) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

Rule Part 24.232 specifies, "Mobile/portable stations are limited to 2 watts EIRP. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

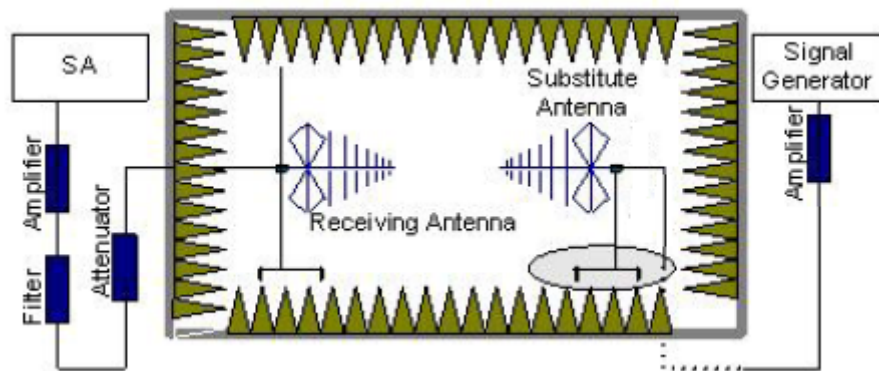
##### **A.1.2.2 Method of Measurement**

The measurements procedures in TIA-603-E-2016 are used.

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna. Adjust the level of the signal generator output until the value of the receiver reaches the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. An amplifier should be connected to the Signal Source output port. And the cable should be connected between the amplifier and the substitution antenna. The cable loss ( $P_{cl}$ ), the substitution antenna Gain ( $G_a$ ) and the amplifier Gain ( $P_{Ag}$ ) should be recorded after test.

The measurement results are obtained as described below:

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

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (Unit dBi) and known input power.
  6. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15$ .
- For test layout photo, please refer to Pic.1 in Annex B.

### CDMA800- ERP

#### Limits

Band	Peak ERP (dBm)
CDMA800(BC0)	≤38.45dBm (7W)

#### Measurement result

##### 1x RTT

Frequency (MHz)	$P_{Mea}$ (dBm)	$P_{cl}$ (dB)	$P_{Ag}$ (dB)	$G_a$ (dBi)	Peak ERP(dBm)	Polarization
824.70	-23.03	2.26	45.79	0.95	19.30	H
836.52	-21.96	2.26	45.66	0.82	20.11	V
848.31	-21.57	2.27	45.55	0.80	20.36	V

Sample calculation: 848.31MHz

$$\begin{aligned} \text{Peak ERP (dBm)} &= P_{Mea} (-21.57\text{dBm}) - G_a (-0.80\text{dBi}) - P_{Ag} (-45.55 \text{ dB}) - P_{cl} (2.27 \text{ dB}) - 2.15\text{dBm} \\ &= 20.36 \text{ dBm} \end{aligned}$$



**Ev-Do**

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> (dBi)	Peak ERP(dBm)	Polarization
824.70	-22.36	2.26	45.79	0.95	19.97	H
836.52	-21.95	2.26	45.66	0.82	20.12	V
848.31	-22.29	2.27	45.55	0.80	19.64	V

Sample calculation: 836.52MHz

$$\text{Peak ERP (dBm)} = P_{\text{Mea}}(-21.95\text{dBm}) - G_a(-0.82 \text{ dBi}) - P_{\text{Ag}}(-45.66 \text{ dB}) - P_{\text{cl}}(2.26 \text{ dB}) - 2.15\text{dBm} = 20.12 \text{ dBm}$$

**ANALYZER SETTINGS: RBW = VBW = 5MHz**

Note: Expanded measurement uncertainty for CDMA800 (BC0) is U = 4.92dB, k = 2.

**CDMA1900- EIRP**

**Limits**

Band	Peak EIRP (dBm)
CDMA1900(BC1)	≤33dBm (2W)

**Measurement result**

**1x RTT**

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> (dBi)	RMS EIRP(dBm)	Polarization
1851.25	-22.41	2.91	43.74	4.87	23.29	H
1880.00	-20.94	2.85	43.75	4.82	24.78	H
1908.75	-20.68	2.86	43.77	4.76	24.99	H

Sample calculation: 1908.75MHz

$$\text{Peak EIRP (dBm)} = P_{\text{Mea}}(-20.68\text{dBm}) - G_a(-4.76 \text{ dBi}) - P_{\text{Ag}}(-43.77\text{dB}) - P_{\text{cl}}(2.86 \text{ dB}) = 24.99\text{dBm}$$

**Ev-Do**

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>cl</sub> (dB)	P <sub>Ag</sub> (dB)	G <sub>a</sub> (dBi)	RMS EIRP(dBm)	Polarization
1851.25	-22.50	2.91	43.74	4.87	23.20	H
1880.00	-20.98	2.85	43.75	4.82	24.74	H
1908.75	-20.72	2.86	43.77	4.76	24.95	H

Sample calculation: 1908.75 MHz

$$\text{Peak EIRP (dBm)} = P_{\text{Mea}}(-20.72\text{dBm}) - G_a(-4.76 \text{ dBi}) - P_{\text{Ag}}(-43.77\text{dB}) - P_{\text{cl}}(2.86 \text{ dB}) = 24.95\text{dBm}$$

**ANALYZER SETTINGS: RBW = VBW = 5MHz**

Note: Expanded measurement uncertainty for CDMA1900 (BC1) is U = 4.92dB, k=2.

## A.2 EMISSION LIMIT

### Reference

FCC: CFR 2.1051, Part 22.917(a), 24.238(a).

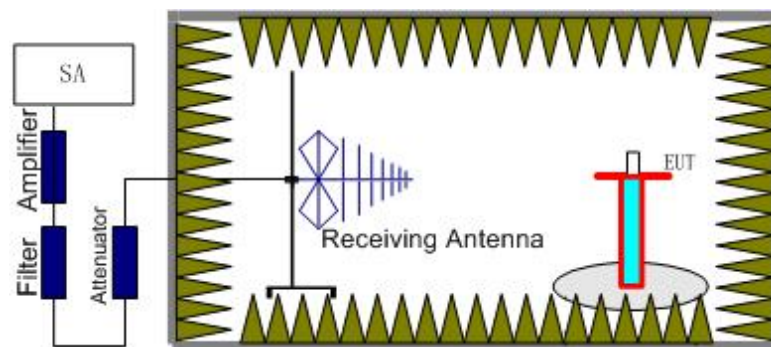
### A.2.1 Measurement Method

The measurements procedures in TIA-603-E-2016 are used. This measurement is carried out in fully-anechoic chamber 3.

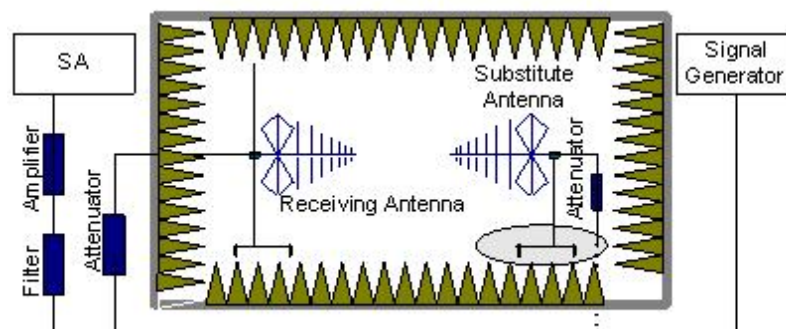
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set 1MHz as outlined in Part 22.917(a) and 24.238(a). The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of CDMA800 and CDMA 1900.

### The procedure of radiated spurious emissions is as follows:

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna. Adjust the level of the signal generator output until the value of the receiver reaches the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss ( $P_{pl}$ ) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain ( $G_a$ ) should be recorded after test.

An amplifier should be connected in for the test.

The Path loss ( $P_{pl}$ ) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

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

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit: dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15dB$ .

### A.2.2 Measurement Limit

Part 22.917(a) and 24.238(a) all specify that 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 specification that emissions shall be attenuated below the transmitter power ( $P$ ) by at least  $43 + 10 \log(P)$  dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

### A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the CDMA BC0 (836.52MHz, 848.31MHz and 824.7MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the CDMA BC0 or CDMA BC1 into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.



**The worst cases:**

**CDMA BC0, Channel 384/836.52MHz**

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>pl</sub> (dB)	G <sub>a</sub> (dBi)	Peak ERP (dBm)	Limit (dBm)	Polarity
1666.01	-59.15	3.58	5.20	-59.68	-13.00	H
2510.00	-49.05	4.63	6.12	-49.71	-13.00	H
3347.02	-53.56	5.32	7.83	-53.20	-13.00	H
4184.02	-55.18	6.17	9.08	-54.42	-13.00	V
5028.01	-56.26	6.57	9.94	-55.04	-13.00	V
5864.01	-53.96	7.28	10.53	-52.86	-13.00	H

**CDMA BC0, Channel 777/848.31MHz**

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>pl</sub> (dB)	G <sub>a</sub> (dBi)	Peak ERP (dBm)	Limit (dBm)	Polarity
1696.01	-60.59	3.60	5.15	-61.19	-13.00	H
2546.00	-53.38	4.66	6.18	-54.01	-13.00	H
3384.02	-55.65	5.35	7.92	-55.23	-13.00	V
4238.02	-56.17	6.25	9.14	-55.43	-13.00	H
5080.01	-55.56	6.72	10.01	-54.42	-13.00	H
5945.01	-53.37	7.47	10.51	-52.48	-13.00	H

**CDMA BC0, Channel 1013/824.7MHz**

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>pl</sub> (dB)	G <sub>a</sub> (dBi)	Peak ERP (dBm)	Limit (dBm)	Polarity
1648.01	-60.78	3.56	5.23	-61.26	-13.00	V
2474.00	-50.12	4.60	6.02	-50.85	-13.00	H
3300.02	-51.62	5.29	7.72	-51.34	-13.00	H
4119.02	-56.18	6.04	9.02	-55.35	-13.00	H
4957.01	-55.65	6.68	9.86	-54.62	-13.00	H
5765.01	-53.93	7.24	10.55	-52.77	-13.00	H

Sample calculation: 1648.01MHz

$$\text{Peak ERP (dBm)} = P_{\text{Mea}}(-60.78 \text{ dBm}) - P_{\text{cl}}(3.56\text{dB}) - G_{\text{a}}(-5.23 \text{ dBi}) - 2.15\text{dBm} \\ = -61.26 \text{ dBm}$$

**CDMA BC1, Channel 25/1851.25MHz**

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>pl</sub> (dB)	G <sub>a</sub> (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarity
3707.02	-56.86	6.41	8.49	-54.78	-13.00	V
5557.02	-46.05	7.19	10.59	-42.65	-13.00	H
7408.01	-52.75	8.14	12.09	-48.80	-13.00	V
9260.01	-54.13	9.06	13.26	-49.93	-13.00	V
11110.01	-46.22	9.79	13.18	-42.83	-13.00	V
12957.01	-46.27	10.48	13.47	-43.28	-13.00	V

**CDMA BC1, Channel 600/1880.00MHz**

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>pl</sub> (dB)	G <sub>a</sub> (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarity
3753.02	-57.36	6.28	8.55	-55.09	-13.00	V
5641.02	-49.03	7.27	10.57	-45.73	-13.00	H
7526.01	-54.86	8.28	12.22	-50.92	-13.00	V
9396.01	-54.12	9.04	13.34	-49.82	-13.00	V
11286.01	-48.28	9.91	13.14	-45.05	-13.00	V
13164.01	-48.22	10.66	13.73	-45.15	-13.00	V

**CDMA BC1, Channel 1175/1908.75MHz**

Frequency (MHz)	P <sub>Mea</sub> (dBm)	P <sub>pl</sub> (dB)	G <sub>a</sub> (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarity
3834.02	-57.50	6.07	8.67	-54.90	-13.00	H
5733.02	-47.97	7.29	10.55	-44.71	-13.00	H
7641.01	-54.83	8.16	12.31	-50.68	-13.00	V
9570.01	-53.57	9.29	13.33	-49.53	-13.00	H
11464.01	-47.04	9.90	13.11	-43.83	-13.00	V
13334.01	-47.72	10.58	13.97	-44.33	-13.00	H

Sample calculation: 3834.02MHz

$$\begin{aligned} \text{Peak ERP (dBm)} &= P_{\text{Mea}}(-57.50 \text{ dBm}) - P_{\text{cl}}(6.07\text{dB}) - G_{\text{a}}(-8.67 \text{ dBi}) - 2.15\text{dBm} \\ &= -54.90\text{dBm} \end{aligned}$$

Note: Expanded measurement uncertainty for this test item is U = 4.92 dB, k = 2.

## ANNEX B: TEST LAYOUT



**Pic.1 Radiated spurious emission**

**\*\*\*END OF REPORT\*\*\***