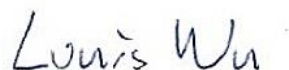


# FCC Test Report

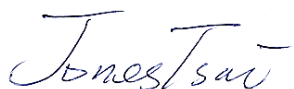
APPLICANT : CT Asia  
EQUIPMENT : Smart phone  
BRAND NAME : BLU  
MODEL NAME : BLU STUDIO MINI LTE 2  
FCC ID : YHLBLUSTMNLTE2  
STANDARD : FCC 47 CFR FCC Part 15 Subpart B  
ICES-003 Issue 5  
CLASSIFICATION : Certification

The product was received on Mar. 10, 2015 and testing was completed on Mar. 27, 2015. 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 C63.4-2009 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.



Reviewed by: Louis Wu / Manager



Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL (SHENZHEN) INC.**

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,  
Nanshan District, Shenzhen, Guangdong, P. R. China



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## REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC531002	Rev. 01	Initial issue of report	May 26, 2015



## SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	ICES003 Section 6.1	AC Conducted Emission	< 15.107 limits < ICES003 6.1 limits	PASS	Under limit 13.12 dB at 0.180 MHz
3.2	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 8.59 dB at 850.620 MHz

## 1. General Description

### 1.1. Applicant

**CT Asia**

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

### 1.2. Manufacturer

**Beijing Benywave Wireless Communication Co., Ltd.**

NO.55 Jiachang 2 road, OPTO-Mechatronics Industrial Park, Tongzhou district, Beijing 101111

### 1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart phone
Brand Name	BLU
Model Name	BLU STUDIO MINI LTE 2
FCC ID	YHLBLUSTMNLTE2
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/LTE/ WLAN 2.4GHz 802.11b/g/n HT20/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE
IMEI Code	Conduction: 354033028150194/354033028150202 Radiation: 354033028147935/354033028147943
HW Version	TBW5726_P1.1_002
SW Version	BLU_W010Q_V01_GENERIC
EUT Stage	Pre-Production

**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 subjective to this standard

Product Specification subjective to this standard	
<b>Tx Frequency</b>	GSM850 : 824.2 MHz ~ 848.8 MHz GSM1900 : 1850.2 MHz ~ 1909.8MHz WCDMA Band V : 826.4 MHz ~ 846.6 MHz WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz WCDMA Band II : 1852.4 MHz ~ 1907.6 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
<b>Rx Frequency</b>	GSM850 : 869.2 MHz ~ 893.8 MHz GSM1900 : 1930.2 MHz ~ 1989.8 MHz WCDMA Band V : 871.4 MHz ~ 891.6 MHz WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz WCDMA Band II : 1932.4 MHz ~ 1987.6 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 7 : 2622.5 MHz ~ 2687.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz Glonass : 1602 MHz + $n \times 0.5625\text{MHz}$ ( $n=-7, -6, -5, \dots, 0, \dots, 6$ )
<b>Antenna Type</b>	WWAN : IFA Antenna WLAN : IFA Antenna Bluetooth : IFA Antenna GPS/Glonass: IFA Antenna
<b>Type of Modulation</b>	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) LTE: QPSK / 16QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth v4.0 LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GPS / Glonass : BPSK

## 1.5. Modification of EUT

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

## 1.6. Test Location

<b>Test Site</b>	SPORTON INTERNATIONAL (KUNSHAN) INC.	
<b>Test Site Location</b>	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC/IC Registration No.</b>
	03CH01-KS	149928/4086E

<b>Test Site</b>	SPORTON INTERNATIONAL (SHENZHEN) INC.	
<b>Test Site Location</b>	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	CO01-SZ	

## 1.7. Applicable Standards

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

- ♦ FCC 47 CFR FCC Part 15 Subpart B
- ♦ ANSI C63.4-2009
- ♦ IC ICES-003 Issue 5
- ♦ IC RSS-Gen Issue 4

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

Item	EUT Configuration	Test Condition		
		EMI AC	EMI RE<1G	EMI RE≥1G
1.	Charging Mode (EUT with adapter)	☒	☒	Note 1
2.	Data application transferred mode (EUT connected with notebook)	☒	☒	☒

#### Abbreviations:

- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

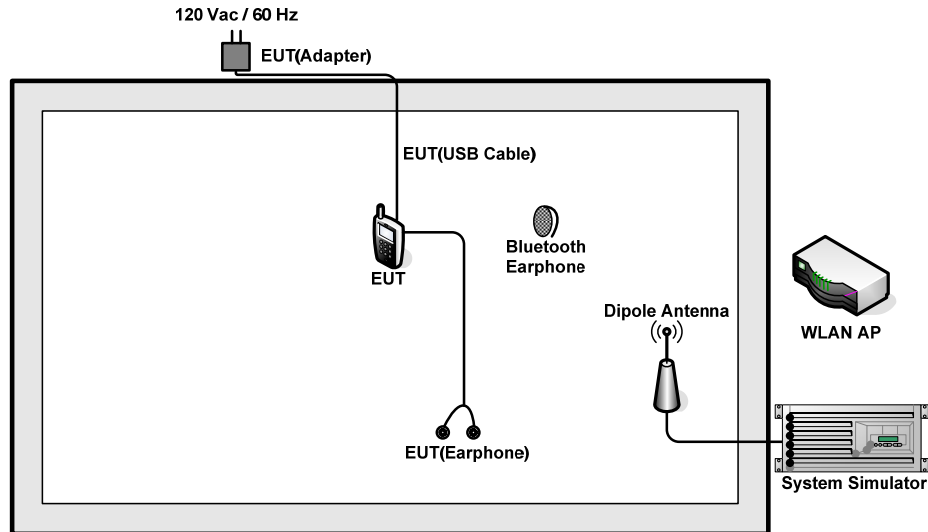
**Note 1:** Testing for this mode is not required or not the worst case.

**Remark:** For signal above 1GHz, the worst case was test item 2.

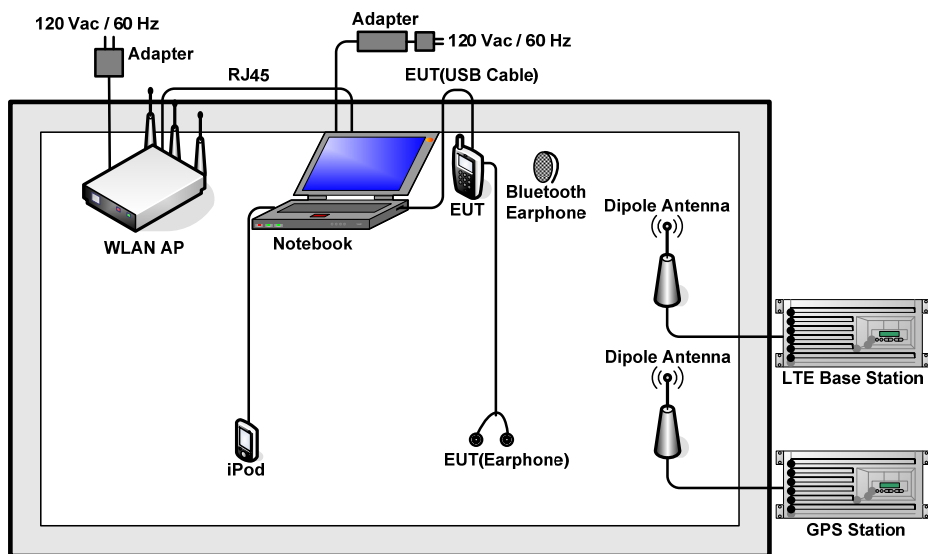


Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1/2	<p>Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera&lt;Fig.1&gt;</p> <p>Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4&lt;Fig.1&gt;</p> <p>Mode 3: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx&lt;Fig.2&gt;</p> <p>Mode 4: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Glonass Rx&lt;Fig.3&gt;</p>
Radiated Emissions < 1GHz	1/2	<p>Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera&lt;Fig.1&gt;</p> <p>Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4&lt;Fig.1&gt;</p> <p>Mode 3: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx&lt;Fig.2&gt;</p> <p>Mode 4: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Glonass Rx&lt;Fig.3&gt;</p>
Radiated Emissions ≥ 1GHz	2	<p>Mode 1: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx&lt;Fig.2&gt;</p>
<b>Remark:</b> <ol style="list-style-type: none"> <li>The worst case of AC is mode 1; and the USB Link mode of AC is mode 3, the test data of these modes were reported.</li> <li>The worst case of RE &lt; 1G is mode 3; only the test data of this mode was reported.</li> <li>Link with Notebook means data application transferred mode between EUT and Notebook.</li> </ol>		

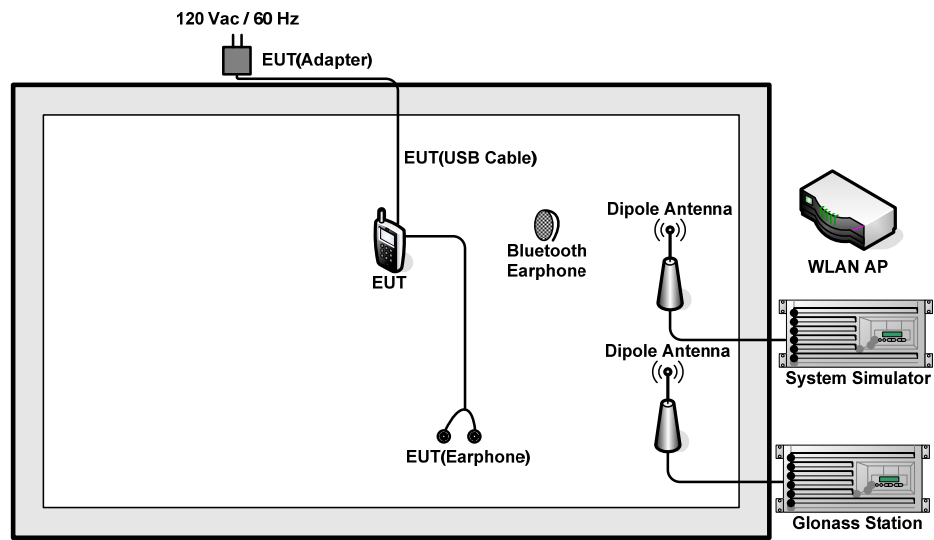
## 2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>



**<Fig.3>**

## 2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	Glomass Station	RACELOGIC	RLLS03-2RP	N/A	N/A	Unshielded, 1.8 m
5.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
6.	WLAN AP	D-Link	DIR-815	KA2IR815A1	N/A	Unshielded, 1.8 m
7.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
8.	Notebook	Lenovo	G480	PRC4	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
9.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
10.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
11.	iPod	Apple	A1199	FCC DoC	Unshielded, 1.2 m	N/A
12.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Unshielded, 1.2 m	N/A

## **2.4. EUT Operation Test Setup**

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and was in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Data application is transferred between Notebook and EUT via USB cable.
2. Execute "Video Player" to play MPEG4 files.
3. Turn on camera to capture images.
4. Turn on GPS/Glonass function to make the EUT receive continuous signals from GPS/Glonass station.

### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

##### 3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

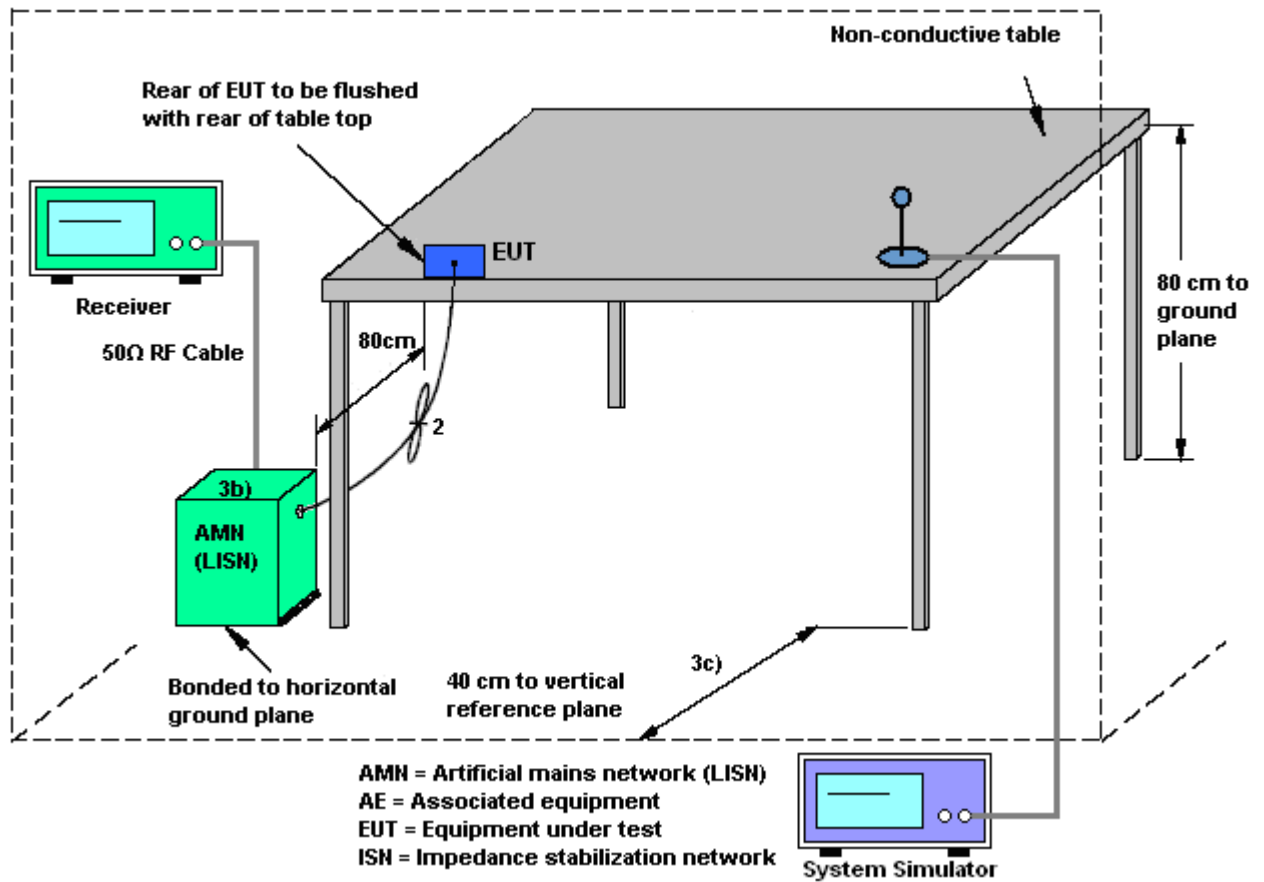
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedure

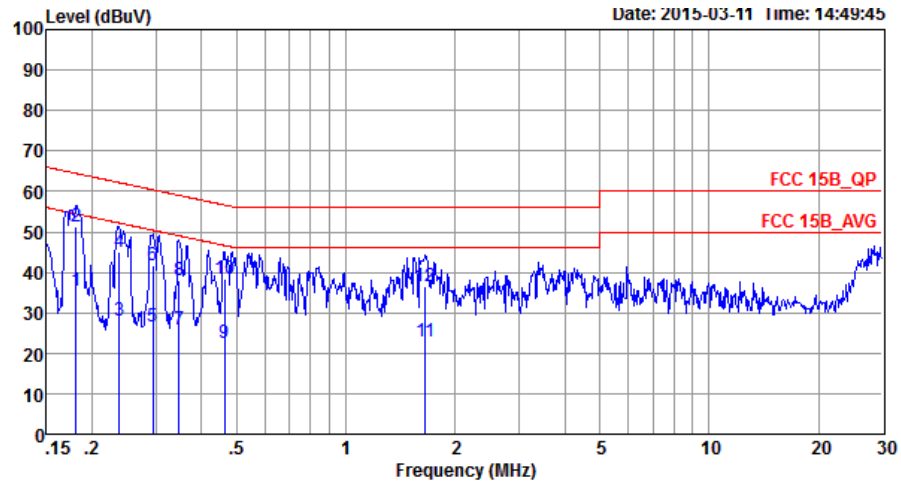
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.1.4 Test Setup



### 3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~22℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera		



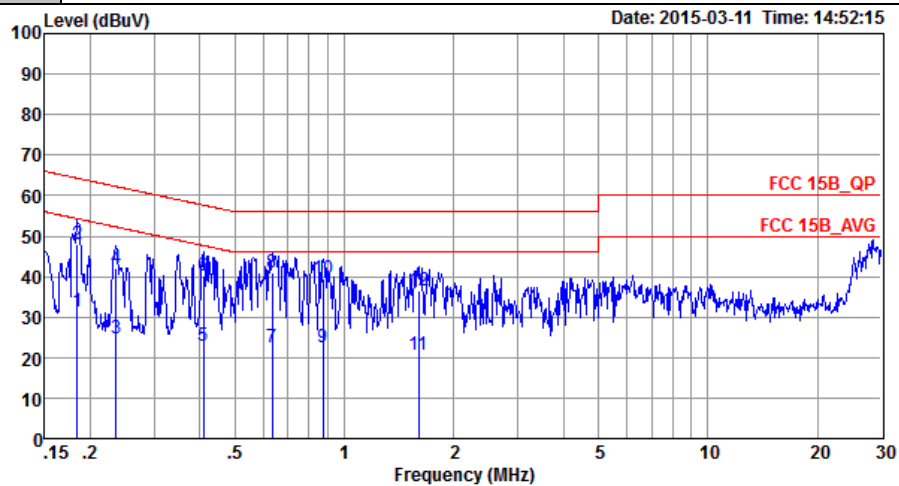
Site : CO01-SZ  
Condition: FCC 15B\_QP LISN\_L\_20140304 LINE  
Project : (FC)531002  
Mode : Mode 1  
IMEI : 354033028150194/354033028150202

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.18	35.34	-19.12	54.46	24.80	0.22	10.32	Average
2 *	0.18	51.34	-13.12	64.46	40.80	0.22	10.32	QP
3	0.24	28.09	-24.08	52.17	17.60	0.24	10.25	Average
4	0.24	44.89	-17.28	62.17	34.40	0.24	10.25	QP
5	0.29	26.46	-23.95	50.41	16.01	0.25	10.20	Average
6	0.29	41.86	-18.55	60.41	31.41	0.25	10.20	QP
7	0.35	25.65	-23.40	49.05	15.19	0.27	10.19	Average
8	0.35	38.15	-20.90	59.05	27.69	0.27	10.19	QP
9	0.46	22.35	-24.28	46.63	11.90	0.29	10.16	Average
10	0.46	38.45	-18.18	56.63	28.00	0.29	10.16	QP
11	1.65	22.81	-23.19	46.00	12.40	0.23	10.18	Average
12	1.65	36.71	-19.29	56.00	26.30	0.23	10.18	QP





<b>Test Mode :</b>	Mode 1	<b>Temperature :</b>	21~22℃
<b>Test Engineer :</b>	Jack Tian	<b>Relative Humidity :</b>	41~42%
<b>Test Voltage :</b>	120Vac / 60Hz	<b>Phase :</b>	Neutral
<b>Function Type :</b>	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera		

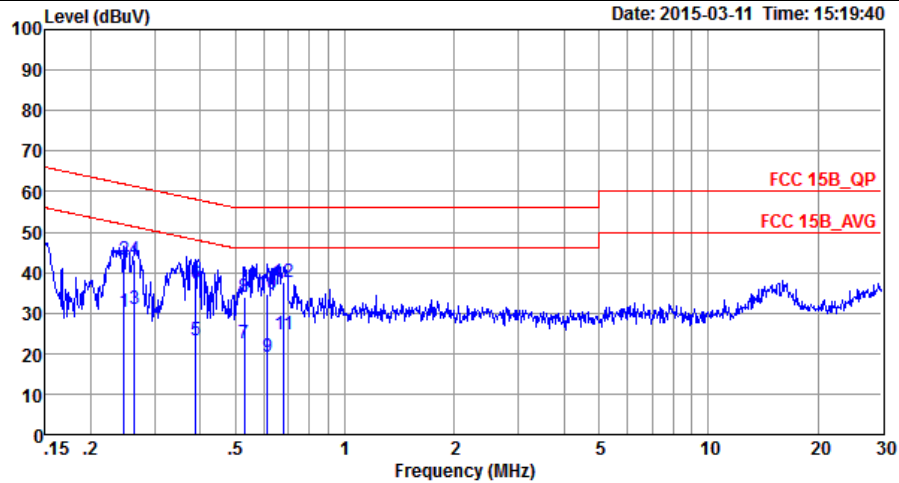


Site : C001-SZ  
 Condition: FCC 15B\_QP LISN\_N\_20140304 NEUTRAL  
 Project : (FC)531002  
 Mode : Mode 1  
 IMEI : 354033028150194/354033028150202

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.18	31.34	-22.94	54.28	20.71	0.32	10.31	Average
2	0.18	47.94	-16.34	64.28	37.31	0.32	10.31	QP
3	0.24	24.59	-27.67	52.26	13.99	0.34	10.26	Average
4	0.24	41.89	-20.37	62.26	31.29	0.34	10.26	QP
5	0.41	22.86	-24.78	47.64	12.30	0.39	10.17	Average
6	0.41	40.06	-17.58	57.64	29.50	0.39	10.17	QP
7	0.63	22.35	-23.65	46.00	11.90	0.30	10.15	Average
8 *	0.63	41.05	-14.95	56.00	30.60	0.30	10.15	QP
9	0.88	22.45	-23.55	46.00	12.00	0.30	10.15	Average
10	0.88	39.55	-16.45	56.00	29.10	0.30	10.15	QP
11	1.60	20.83	-25.17	46.00	10.29	0.36	10.18	Average
12	1.60	36.63	-19.37	56.00	26.09	0.36	10.18	QP



Test Mode :	Mode 3	Temperature :	21~22°C
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		

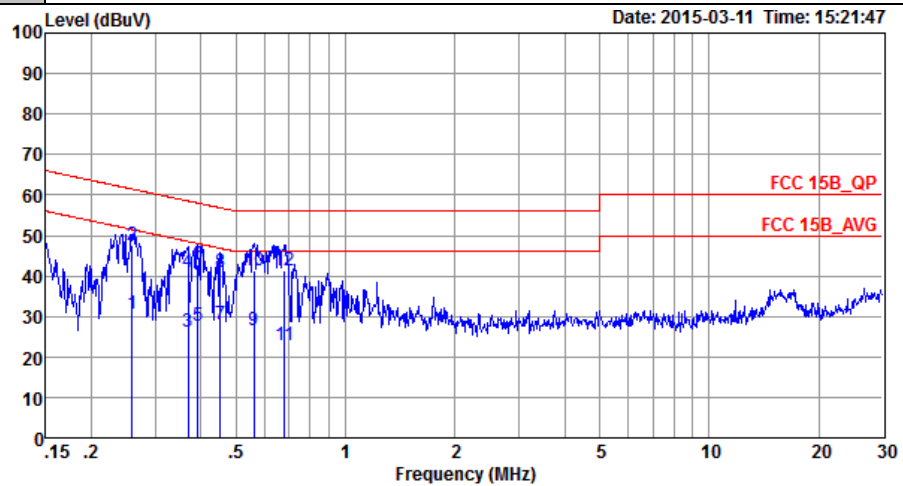


Site : C001-SZ  
Condition: FCC 15B\_QP LISN\_L\_20140304 LINE  
Project : (FC)531002  
Mode : Mode 3  
IMEI : 354033028150194/354033028150202

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.25	30.08	-21.78	51.86	19.59	0.24	10.25	Average
2	0.25	43.18	-18.68	61.86	32.69	0.24	10.25	QP
3	0.26	30.87	-20.42	51.29	20.40	0.24	10.23	Average
4 *	0.26	43.27	-18.02	61.29	32.80	0.24	10.23	QP
5	0.39	23.15	-24.93	48.08	12.70	0.28	10.17	Average
6	0.39	37.15	-20.93	58.08	26.70	0.28	10.17	QP
7	0.53	22.63	-23.37	46.00	12.20	0.28	10.15	Average
8	0.53	33.83	-22.17	56.00	23.40	0.28	10.15	QP
9	0.61	19.08	-26.92	46.00	8.70	0.23	10.15	Average
10	0.61	34.78	-21.22	56.00	24.40	0.23	10.15	QP
11	0.68	24.54	-21.46	46.00	14.20	0.19	10.15	Average
12	0.68	37.54	-18.46	56.00	27.20	0.19	10.15	QP



Test Mode :	Mode 3	Temperature :	21~22℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : C001-SZ  
Condition: FCC 15B\_QP LISN\_N\_20140304 NEUTRAL  
Project : (FC)531002  
Mode : Mode 3  
IMEI : 354033028150194/354033028150202

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.26	30.78	-20.69	51.47	20.20	0.35	10.23	Average
2 *	0.26	47.58	-13.89	61.47	37.00	0.35	10.23	QP
3	0.37	26.36	-22.16	48.52	15.80	0.38	10.18	Average
4	0.37	40.86	-17.66	58.52	30.30	0.38	10.18	QP
5	0.39	27.66	-20.33	47.99	17.10	0.39	10.17	Average
6	0.39	42.66	-15.33	57.99	32.10	0.39	10.17	QP
7	0.45	28.06	-18.79	46.85	17.50	0.40	10.16	Average
8	0.45	41.06	-15.79	56.85	30.50	0.40	10.16	QP
9	0.56	26.41	-19.59	46.00	15.90	0.36	10.15	Average
10	0.56	41.21	-14.79	56.00	30.70	0.36	10.15	QP
11	0.68	22.92	-23.08	46.00	12.50	0.27	10.15	Average
12	0.68	41.22	-14.78	56.00	30.80	0.27	10.15	QP

## 3.2. Test of Radiated Emission Measurement

### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

### 3.2.2. Measuring Instruments

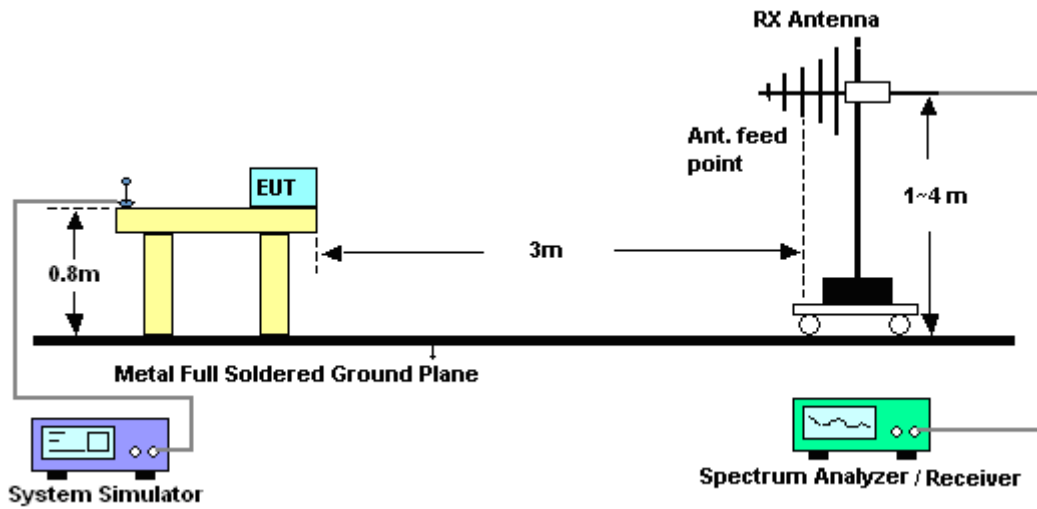
The measuring equipment is listed in the section 4 of this test report.

### 3.2.3. Test Procedures

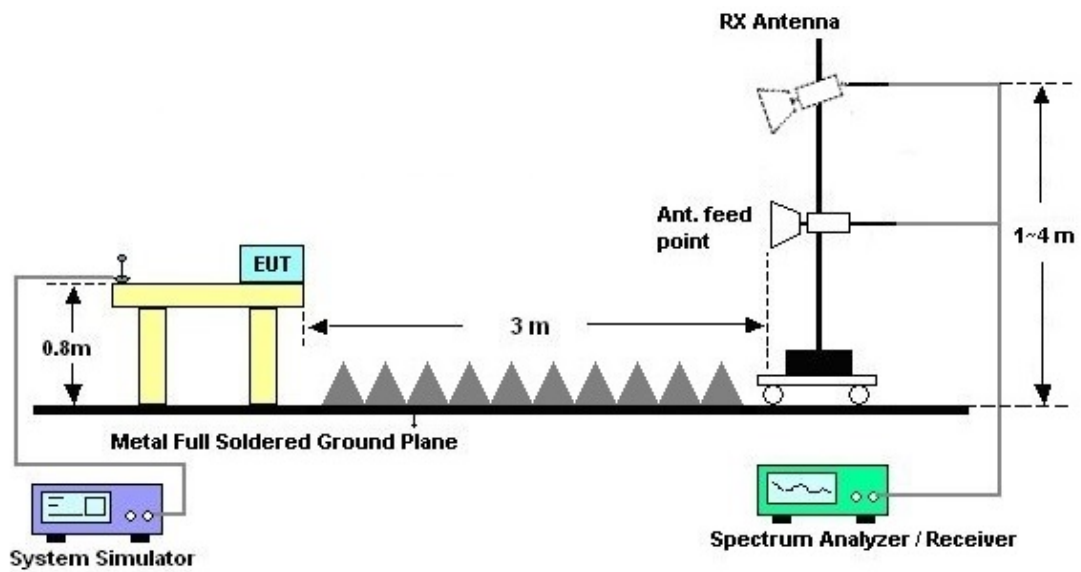
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

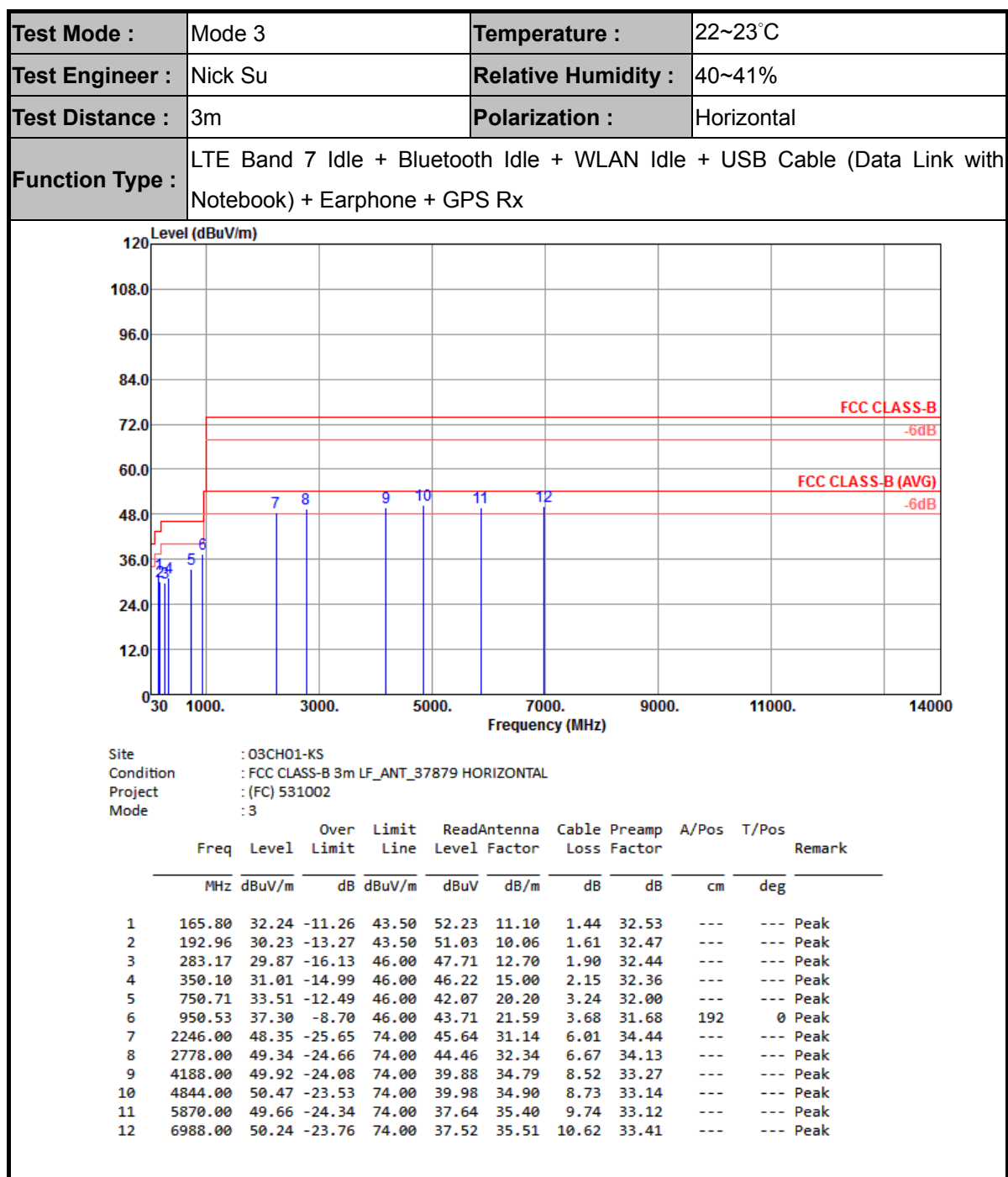


For radiated emissions above 1GHz



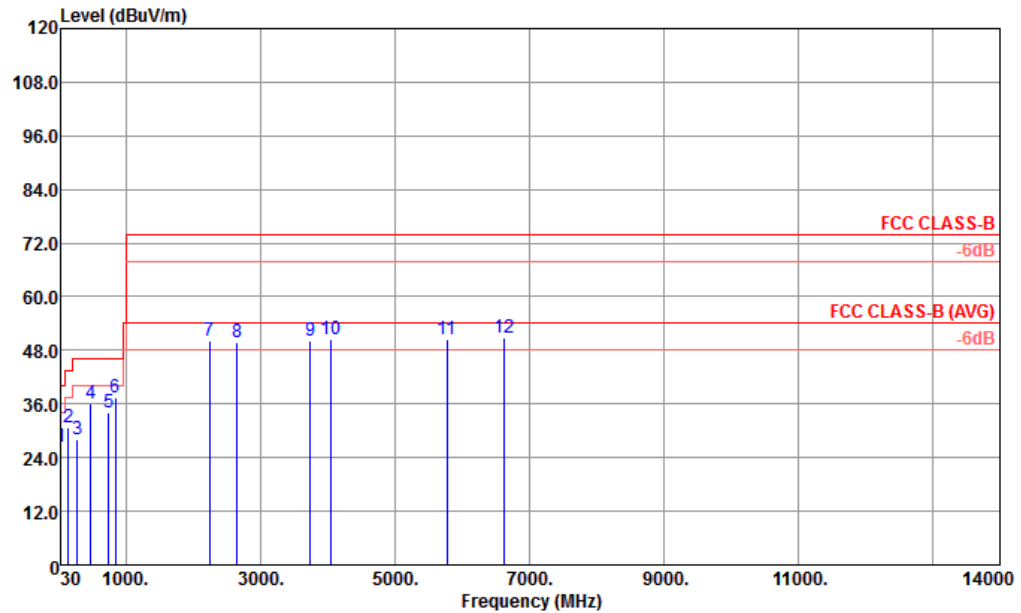


## 3.2.5. Test Result of Radiated Emission





Test Mode :	Mode 3	Temperature :	22~23°C
Test Engineer :	Nick Su	Relative Humidity :	40~41%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : 03CH01-KS  
Condition : FCC CLASS-B 3m LF\_ANT\_37879 VERTICAL  
Project : (FC) 531002  
Mode : 3

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	26.33	-13.67	40.00	39.00	19.20	0.79	32.66	---	---	Peak
2	145.43	30.78	-12.72	43.50	50.45	11.66	1.23	32.56	---	---	Peak
3	285.11	27.93	-18.07	46.00	45.72	12.74	1.90	32.43	---	---	Peak
4	480.08	36.05	-9.95	46.00	48.53	17.18	2.51	32.17	---	---	Peak
5	749.74	33.96	-12.04	46.00	42.52	20.20	3.24	32.00	---	---	Peak
6	850.62	37.41	-8.59	46.00	44.85	21.03	3.36	31.83	100	155	Peak
7	2246.00	50.23	-23.77	74.00	47.52	31.14	6.01	34.44	---	---	Peak
8	2656.00	49.79	-24.21	74.00	45.60	31.87	6.52	34.20	---	---	Peak
9	3748.00	50.10	-23.90	74.00	41.44	34.20	8.06	33.60	---	---	Peak
10	4044.00	50.53	-23.47	74.00	40.84	34.61	8.52	33.44	---	---	Peak
11	5782.00	50.56	-23.44	74.00	38.67	35.32	9.66	33.09	---	---	Peak
12	6636.00	50.88	-23.12	74.00	38.53	35.59	10.35	33.59	---	---	Peak



## 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Oct. 25, 2014	Mar. 27, 2015	Oct. 24, 2015	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	101399	9kHz~30GHz	May 04, 2014	Mar. 27, 2015	May 03, 2015	Radiation (03CH01-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz~2GHz	Sep. 13, 2014	Mar. 27, 2015	Sep. 12, 2015	Radiation (03CH01-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 08, 2014	Mar. 27, 2015	Nov. 07, 2015	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161073	1MHz~1GHz	May 04, 2014	Mar. 27, 2015	May 03, 2015	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02371	1GHz~26.5GHz	Oct. 28, 2014	Mar. 27, 2015	Oct. 27, 2015	Radiation (03CH01-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 27, 2015	NCR	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Mar. 27, 2015	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Mar. 27, 2015	NCR	Radiation (03CH01-KS)
EMI TEST Receiver	R&S	ESCI7	100768	9kHz~3GHz	May 04, 2014	Mar. 11, 2015	May 03, 2015	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Feb. 02, 2015	Mar. 11, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Feb. 02, 2015	Mar. 11, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Sep. 29, 2014	Mar. 11, 2015	Sep. 28, 2015	Conduction (CO01-SZ)



## 5. Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	2.3dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	2.5dB
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