

# **FCC Test Report**

APPLICANT	:	Brightstar Corporation
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	Avvio, MEU
MODEL NAME	:	Avvio Q501, MEU AN502
FCC ID	:	WVBAQ501X
STANDARD	:	FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION	:	Certification

The product was received on Nov. 24, 2016 and testing was completed on Dec. 07, 2016. 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 C63.4-2014 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.

File Shih

Prepared by: Eric Shih / 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

**SPORTON INTERNATIONAL (SHENZHEN) INC.** TEL : 86-755-8637-9589 FAX : 86-755-8637-9595 FCC ID : WVBAQ501X Page Number: 1 of 24Report Issued Date: Dec. 19, 2016Report Version: Rev. 01Report Template No.: BU5-FD15B Version 1.3



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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC6N2401	Rev. 01	Initial issue of report	Dec. 19, 2016



Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	4.23 dB at
					1.210 MHz
					Under limit
3.2	2.0 45.400	5.109 Radiated Emission	< 15.109 limits	PASS	3.86 dB at
5.2 15.10	15.109				240.060 MHz
					for Quasi-Peak

## SUMMARY OF TEST RESULT



## 1. General Description

### 1.1. Applicant

#### **Brightstar Corporation**

9725 NW 117th Ave., Miami, Florida, FL 33178, United States

### 1.2. Manufacturer

#### Shenzhen Crave Communication Co., Ltd.

Floor 3, Bldg 8, Dongfangming Industrial City, No.83 Dabao Rd., 33 District, Shenzhen, China

## **1.3.** Product Feature of Equipment Under Test

Product Feature			
Equipment Mobile Phone			
Brand Name	Avvio, MEU		
Model Name	Avvio Q501, MEU AN502		
FCC ID	WVBAQ501X		
	GSM/GPRS/EGPRS(Downlink Only)/		
FUT even ente De die e	WCDMA/HSPA/HSPA+(16QAM Uplinik is not supported)		
EUT supports Radios	WLAN2.4GHz 802.11b/g/n HT20/HT40		
application	Bluetooth v3.0+EDR		
	Bluetooth v4.0 LE		
	Sample 1:		
IMEL Code	Conduction/Radiation: 352155079998619		
IMEI Code	Sample 2:		
	N/A		
EUT Stage	Production Unit		

#### Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two types of EUT for this project. The different model with different brand is for market purpose. The differences between them are as below:
  - 1) Avvio Q501: PCBA with single SIM card slot, MEU AN502: PCBA with dual SIM card slot.
  - Avvio Q501 has GSM quad-band and WCDMA B2/B5, but MEU AN502 disable WCDMA B2 and add WCDMA B1 by SW.

According to the difference, we choose single SIM card mobile sample 1 to perform full test and the dual SIM card mobile sample 2 is only verified worse case of sample 1 for EMC test.



## 1.4. Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx Frequency	Sample 1:	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz	
	Sample 2:	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz	
Rx Frequency	Sample 1:	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 II: 1932.4 MHz ~ 1987.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz	
	Sample 2:	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz	
Antenna Type	WWAN : PIFA WLAN : PIFA Bluetooth : P GPS : PIFA A	A Antenna IFA Antenna	
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK(Downlink Only) WCDMA: BPSK (Uplink) HSDPA: QPSK (Uplink) HSVPA: QPSK (Uplink) HSPA+: 16QAM (Uplink is not supported) 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi$ /4-DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK		

## **1.5. Modification of EUT**

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



## 1.6. Test Location

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

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.			
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398			
Test Site No.		FCC Registration No.		
Test Site No.	03CH03-SZ 565805			

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

## 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 C63.4-2014

**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 C63.4-2014 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).

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

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

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.

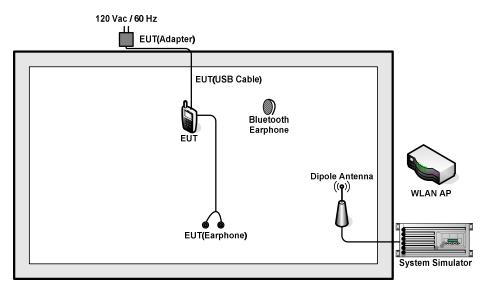


Test Items	Function Type		
	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN(2.4G) Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Rear) for Sample 1 <fig.1></fig.1>		
	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN(2.4G) Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Front) for Sample 1 <fig.1></fig.1>		
AC Conducted Emission	Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN(2.4G) Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 for Sample 1 <fig.1></fig.1>		
	Mode 4 : WCDMA Band II Idle + Bluetooth Idle + WLAN(2.4G) Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx for Sample 1 <fig.2></fig.2>		
	Mode 5: GSM1900 Idle + Bluetooth Idle + WLAN(2.4G) Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Front) + SIM1 for Sample 2 <fig.1></fig.1>		
	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN(2.4G) Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Rear) for Sample 1 <fig.1></fig.1>		
	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN(2.4G) Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Front) for Sample 1 <fig.1></fig.1>		
Radiated Emissions < 1GHz	Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN(2.4G) Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 for Sample 1 <fig.1></fig.1>		
	Mode 4 : WCDMA Band II Idle + Bluetooth Idle + WLAN(2.4G) Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx for Sample 1 <fig.2></fig.2>		
	Mode 5: WCDMA Band II Idle + Bluetooth Idle + WLAN(2.4G) Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 for Sample 2 <fig.2></fig.2>		
Radiated Emissions $\ge$ 1GHz	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN(2.4G) Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx for Sample 1 <fig.2></fig.2>		
Remark:			
1. The worst case of AC is mode 2; and the USB Link mode of AC is mode 4, the test data of the			
modes we	re reported.		
2. The worst	case of RE < 1G is mode 4; only the test data of this mode was reported.		

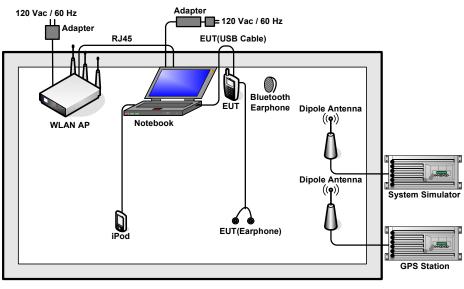
3. Data Link with notebook means data application transferred mode between EUT and notebook.



## 2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>



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

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m
4.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8 m
5.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
6.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
7.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	iPod nano 8GB	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2 m	N/A
9.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0 m	N/A



## 2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA idle mode during the testing. The EUT was synchronized to the BCCH, and is 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. Turn on GPS function to make the EUT receive continuous signals from GPS station.
- 3. Execute "Video player" to play MPEG4 files.
- 4. Turn on camera to capture images.



## 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	Conducted limit (dBuV)		
(MHz)	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

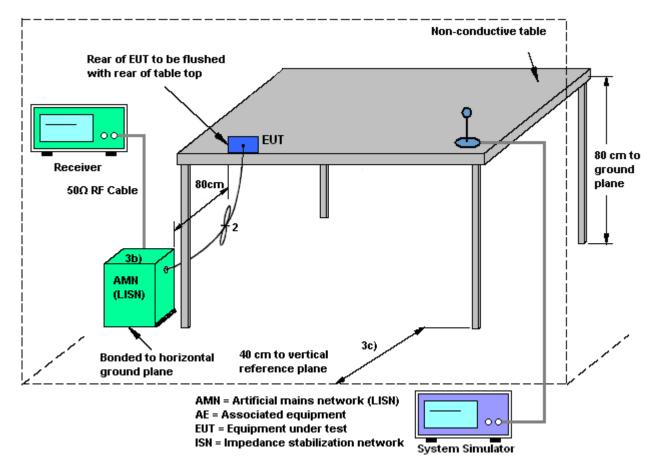
The measuring equipment is listed in the section 4 of this test report.

#### 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.
- 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 2	·	Temperatur	e :	<b>21~23</b> ℃			
Test Engineer :	Tao Cheng		Relative Hu	midity :	41~43%			
Test Voltage :	120Vac / 60Hz		Phase :		Line			
Function Type :	GSM1900 Idle + Adapter) + Earpl			. ,		(Charging from		
100	Level (dBuV)			Date	e: 2016-12-07 Time: 11	1:22:24		
90								
80								
70								
60					FCC 15	B_QP		
		a la			FCC 15B	AVG		
50 40			1517 19	W 22 W	+ Mar Mar March	Ander		
30		9		21		- T WA		
20								
10								
0	.15 .2 .5	1	2	5	10 20	30		
			Frequency (MHz)	-	10 20			
Site	: CO01-SZ							
	.on: FCC 15B_QP L1 ; : (FC)6N2401	SN_20160509	LINE					
Mode	: Mode 2							
IMEM	: 3521550799986		.mit Read	LISN	Cable			
_	Freq Level		ine Level		Loss Remark			
	MHz dBuV	dB d	lBuV dBuV	dB	dB			
1	0.23 26.58	-25.94 52	.52 16.00	0.11	10.47 Average			
2	0.23 42.78				10.47 QP			
3	0.42 32.05 0.42 45.75	-15.32 47			10.24 Average 10.24 QP			
5			5.45 16.50	0.11	10.23 Average			
6			.45 30.50	0.11	10.23 QP			
7			.00 24.90	0.11	10.21 Average			
8 * 9	0.54 45.92 0.65 29.28				10.21 QP 10.17 Average			
10	0.65 41.58				10.17 QP			
11	0.82 31.67	-14.33 46	.00 21.40	0.11	10.16 Average			
12		-13.53 56			10.16 QP			
13 14			5.00 22.00 5.00 33.40		10.16 Average 10.16 QP			
15	1.39 34.07				10.16 Average			
16	1.39 45.37	-10.63 56	.00 35.10	0.11	10.16 QP			
17			.00 22.80		10.17 Average			
18 19	1.58 44.78 2.76 32.91		5.00 34.50 5.00 22.60		10.17 QP 10.19 Average			
20	2.76 32.91				10.19 QP			
21	4.29 30.36	-15.64 46	.00 20.00	0.13	10.23 Average			
22	4.29 41.56	-14.44 56	5.00 31.20	0.13	10.23 QP			

**SPORTON INTERNATIONAL (SHENZHEN) INC.** TEL : 86-755-8637-9589 FAX : 86-755-8637-9595 FCC ID : WVBAQ501X



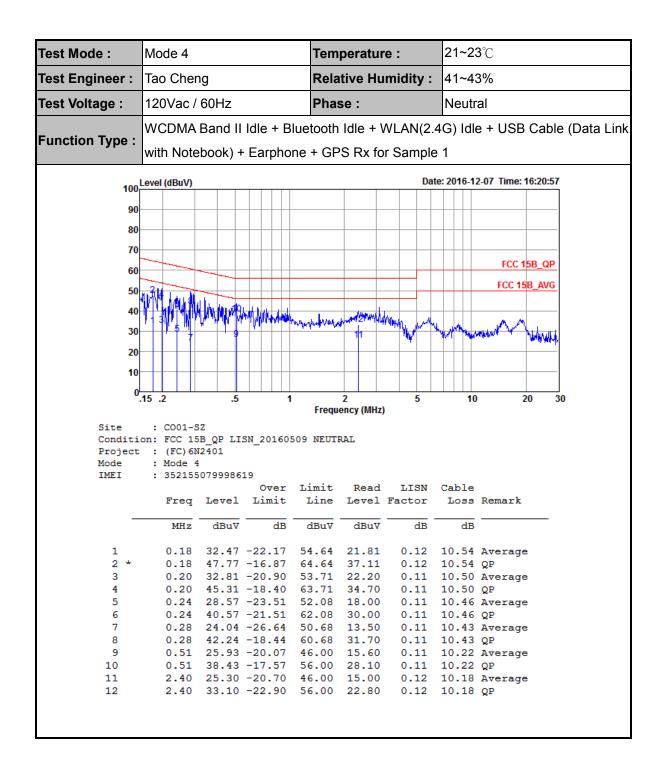
Test Mode :	Mode 2			Tem	Temperature :			<b>3</b> ℃		
Test Engineer :	Tao Chei	ng		Rela	Relative Humidity :			41~43%		
Fest Voltage :	120Vac /	60Hz		Pha	Phase :			al		
Function Type :	GSM190	0 Idle +	- Bluetoo	oth Idle -	+ WLAN	I(2.4G) I	dle + U	SB Cable (	Charging fro	
runction type .	Adapter)	+ Earpl	hone + C	amera(l	Front) fo	or Sampl	e 1			
100	Level (dBuV)					Da	te: 2016-1	2-07 Time: 11:1	8:29	
90										
80										
70								FCC 15B	OP	
60				180.04						
50	Ad A los	7	100		A PE			FCC 15B_A		
40	- WY WY	<b>₩</b> ₩¥³"	Y Y Y 1	1131719	1 21	MIWA	North	mmmm		
30						23	•	A A MANA W	Man	
20										
10										
0	.15 .2	.5	1		2	5	10	20	30	
				Frequ	ency (MHz)	)				
Site Conditi Project	: CO01-5 on: FCC 15 : (FC)6N	B_QP LI	SN_20160	509 NEUTI	RAL					
Conditi	on: FCC 15	5B_QP LI N2401 2	19			LISN	Cable			
Conditi Project Mode	on: FCC 15 : (FC)6N : Mode 2 : 352155	5B_QP LI 12401 2 50799986	_	Limit	Read	LISN Factor	Cable Loss	Remark		
Conditi Project Mode	on: FCC 15 : (FC)6N : Mode 2 : 352155	5B_QP LI 12401 2 50799986	- 19 Over	Limit	Read			Remark	_	
Conditi Project Mode	on: FCC 19 : (FC)6N : Mode 2 : 352155 Freq	58_QP LI 12401 2 50799986 Level  dBuV	- 19 Over Limit	Limit Line 	Read Level	Factor	Loss dB	Remark  Average	_	
Conditi Project Mode IMEM - 1 2	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33	58_QP LI 12401 50799986 Level dBuV 38.97 48.67	- 19 Over Limit -10.43 -10.73	Limit Line dBuV 49.40 59.40	Read Level dBuV 28.50 38.20	Factor dB 0.11 0.11	Loss dB 10.36 10.36	Average QP	_	
Conditi Project Mode IMEM -	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33 0.44	58_QP LI 12401 50799986 Level dBuV 38.97 48.67 41.05	- 19 Over Limit -10.43 -10.73 -6.02	Limit Line dBuV 49.40 59.40 47.07	Read Level dBuV 28.50 38.20 30.70	Factor dB 0.11 0.11 0.11	Loss dB 10.36 10.24	Average QP Average	_	
Conditi Project Mode IMEM 	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33	58_QP LI 12401 50799986 Level dBuV 38.97 48.67 41.05 52.05	- 19 Over Limit -10.43 -10.73	Limit Line dBuV 49.40 59.40 47.07	Read Level dBuV 28.50 38.20 30.70 41.70	Factor dB 0.11 0.11	Loss dB 10.36 10.36 10.24 10.24	Average QP Average	_	
Conditi Project Mode IMEM 1 2 3 4 5 6	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33 0.44 0.44 0.52 0.52	58_QP LI 12401 50799986 Level dBuV 38.97 48.67 41.05 52.05 35.02 46.82	- 19 Over Limit -10.43 -10.73 -6.02 -5.02 -10.98 -9.18	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50	Factor dB 0.11 0.11 0.11 0.11 0.11 0.11 0.11	Loss dB 10.36 10.24 10.24 10.21 10.21	Average QP Average QP Average QP	_	
Conditi Project Mode IMEM 	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33 0.44 0.52 0.52 0.65	5B_QP LI 12401 50799986 Level  dBuV 38.97 48.67 41.05 52.05 35.02 46.82 34.48	- 19 Over Limit -10.43 -10.73 -6.02 -5.02 -10.98 -9.18 -11.52	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20	Factor dB 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11	Loss dB 10.36 10.24 10.24 10.21 10.21 10.21	Average QP Average QP Average QP Average	_	
Conditi Project Mode IMEM 1 2 3 4 5 6	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33 0.33 0.44 0.44 0.52 0.52 0.65 0.65	5B_QP LI 12401 50799986 Level  dBuV 38.97 48.67 41.05 52.05 35.02 46.82 34.48 46.18	- 19 Over Limit -10.43 -10.73 -6.02 -5.02 -10.98 -9.18	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00 56.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20 35.90	Factor dB 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11	Loss dB 10.36 10.24 10.24 10.21 10.21 10.17 10.17	Average QP Average QP Average QP Average QP	_	
Conditi Project Mode IMEM 	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33 0.44 0.52 0.52 0.65	5B_QP LI 12401 50799986 Level dBuV 38.97 48.67 41.05 52.05 35.02 46.82 34.48 46.18 35.67 47.67	- 19 Over Limit -10.43 -10.73 -6.02 -5.02 -10.98 -9.18 -11.52 -9.82 -10.33 -8.33	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20 35.90 25.40 37.40	Factor dB 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11	Loss dB 10.36 10.24 10.24 10.21 10.21 10.17 10.17 10.16 10.16	Average QP Average QP Average QP Average QP Average QP	_	
Conditi Project Mode IMEM 1 2 3 4 5 6 7 8 9 10 11	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33 0.44 0.44 0.52 0.52 0.65 0.65 0.87 0.87 0.98	BB_QP LI 12401 2 50799986 Level dBuV 38.97 48.67 41.05 52.05 35.02 46.82 34.48 46.18 35.67 47.67 36.17	- 19 Over Limit -10.43 -10.73 -6.02 -5.02 -10.98 -9.18 -11.52 -9.82 -10.33 -8.33 -9.83	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20 35.90 25.40 37.40 25.90	Factor dB 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11	Loss dB 10.36 10.24 10.24 10.21 10.21 10.17 10.17 10.16 10.16	Average QP Average QP Average QP Average QP Average QP Average	_	
Conditi Project Mode IMEM 	on: FCC 18 : (FC) 6N : Mode 2 : 352158 Freq MHz 0.33 0.33 0.44 0.44 0.52 0.52 0.65 0.65 0.87 0.98 0.98	BB_QP LI 12401 2 50799986 Level dBuV 38.97 48.67 41.05 52.05 35.02 46.82 34.48 46.18 35.67 47.67 36.17 47.97	- 19 Over Limit -10.43 -10.73 -6.02 -5.02 -10.98 -9.18 -11.52 -9.82 -10.33 -8.33 -9.83 -8.03	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20 35.90 25.40 37.40 25.90 37.70	Factor dB 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11	Loss dB 10.36 10.24 10.24 10.21 10.21 10.17 10.17 10.16 10.16 10.16	Average QP Average QP Average QP Average QP Average QP Average QP	_	
Conditi Project Mode IMEM 	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33 0.44 0.44 0.52 0.52 0.65 0.65 0.87 0.87 0.98	BB_QP LI 12401 2 50799986 Level dBuV 38.97 48.67 41.05 52.05 35.02 46.82 34.48 46.18 35.67 47.67 36.17 47.97 36.67	- 19 Over Limit -10.43 -10.73 -6.02 -5.02 -10.98 -9.18 -11.52 -9.82 -10.33 -8.33 -9.83 -8.03 -9.33	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20 35.90 25.40 37.40 25.90 37.70 26.40	Factor dB 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11	Loss dB 10.36 10.24 10.24 10.21 10.21 10.17 10.17 10.16 10.16 10.16	Average QP Average QP Average QP Average QP Average QP Average QP Average	_	
Conditi Project Mode IMEM 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33 0.44 0.44 0.52 0.65 0.65 0.65 0.87 0.87 0.98 0.98 1.09 1.09 1.21	BB_QP LI V2401 2 50799986 Level dBuV 38.97 48.67 41.05 52.05 35.02 46.82 34.48 46.18 35.67 47.67 36.17 47.97 36.67 49.17 39.27	- 19 Over Limit -10.43 -10.73 -6.02 -5.02 -10.98 -9.18 -11.52 -9.82 -10.33 -8.33 -9.83 -9.83 -8.03 -9.33 -6.83 -6.73	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20 35.90 25.40 37.40 25.90 37.70 26.40 38.90 29.00	Factor dB 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11	Loss dB 10.36 10.24 10.24 10.21 10.21 10.17 10.16 10.16 10.16 10.16 10.16 10.16	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP	_	
Conditi Project Mode IMEM 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 *	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33 0.44 0.52 0.65 0.65 0.65 0.87 0.98 0.98 1.09 1.09 1.21 1.21	BB_QP LI V2401 2 50799986 Level dBuV 38.97 48.67 41.05 52.05 35.02 46.82 34.48 46.18 35.67 47.67 36.17 47.97 36.67 49.17 39.27 51.77	- 19 Over Limit -10.43 -10.73 -6.02 -5.02 -10.98 -9.18 -11.52 -9.82 -0.83 -8.03 -9.33 -6.83 -6.73 -4.23	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20 35.90 25.40 37.40 25.90 37.70 26.40 38.90 29.00 41.50	Factor dB 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11	Loss dB 10.36 10.24 10.24 10.21 10.21 10.17 10.16 10.16 10.16 10.16 10.16 10.16 10.16	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP	_	
Conditi Project Mode IMEM 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 * 17	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33 0.44 0.52 0.65 0.65 0.65 0.87 0.98 0.98 1.09 1.21 1.21 1.32	BB_QP LI V2401 S0799986 Level dBuV 38.97 48.67 41.05 52.05 35.02 46.82 34.48 46.18 35.67 47.67 36.17 36.17 36.17 36.27 36.27 39.27 51.77 38.57	- 19 Over Limit -10.43 -10.73 -6.02 -5.02 -10.98 -9.18 -11.52 -9.82 -10.33 -8.33 -9.83 -9.83 -9.33 -6.83 -6.73 -4.23 -7.43	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20 35.90 25.40 37.40 25.90 37.40 25.90 37.70 26.40 38.90 29.00 41.50 28.30	Factor dB 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11	Loss dB 10.36 10.24 10.24 10.21 10.21 10.17 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average	_	
Conditi Project Mode IMEM 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 * 17 18	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33 0.44 0.52 0.52 0.65 0.65 0.65 0.87 0.98 1.09 1.09 1.21 1.21 1.32 1.32	BB_QP LI 12401 2 50799986 Level dBuV 38.97 48.67 41.05 52.05 35.02 46.82 34.48 46.18 35.67 47.67 36.17 36.17 36.67 47.97 36.67 49.17 39.27 51.77 38.57 50.97	- 19 Over Limit dB -10.43 -10.73 -6.02 -5.02 -10.98 -9.18 -11.52 -9.82 -10.33 -8.33 -9.83 -9.83 -9.33 -6.83 -6.73 -4.23 -7.43 -5.03	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20 35.90 25.40 37.40 25.90 37.40 25.90 37.70 26.40 38.90 29.00 41.50 28.30 40.70	Factor dB 0.11	Loss dB 10.36 10.24 10.24 10.21 10.21 10.17 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average	_	
Conditi Project Mode IMEM 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 * 17	on: FCC 15 : (FC) 6N : Mode 2 : 352155 Freq MHz 0.33 0.33 0.44 0.52 0.65 0.65 0.65 0.87 0.98 0.98 1.09 1.21 1.21 1.32	BB_QP LI 12401 2 50799986 Level dBuV 38.97 48.67 41.05 52.05 35.02 46.82 34.48 46.18 35.67 47.67 36.17 47.97 36.67 49.17 39.27 50.97 37.68 49.48	- 19 Over Limit dB -10.43 -10.73 -6.02 -5.02 -10.98 -9.18 -11.52 -9.82 -10.33 -8.33 -9.83 -8.03 -9.83 -8.03 -9.33 -6.73 -4.23 -7.43 -5.03 -8.32 -6.52	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20 35.90 25.40 37.40 25.90 37.40 25.90 37.70 26.40 37.70 28.90 29.00 41.50 28.30 40.70 27.40 39.20	Factor dB 0.11	Loss dB 10.36 10.24 10.21 10.21 10.21 10.17 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.17 10.17	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP	_	
Conditi Project Mode IMEM 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 * 17 18 19 20 21	on: FCC 18 : (FC) 6N : Mode 2 : 352158 Freq MHz 0.33 0.33 0.44 0.44 0.52 0.52 0.65 0.65 0.65 0.65 0.87 0.98 1.09 1.09 1.09 1.21 1.32 1.32 1.47 1.47 2.76	BB_QP LI 12401 2 50799986 Level dBuV 38.97 48.67 41.05 52.05 35.02 46.82 34.48 46.18 35.67 47.67 36.17 47.97 36.67 49.17 39.27 50.97 37.68 49.48 35.81	- 19 Over Limit dB -10.43 -10.73 -6.02 -5.02 -10.98 -9.18 -11.52 -9.82 -10.33 -8.33 -9.83 -8.03 -9.83 -8.03 -9.83 -8.03 -9.33 -6.73 -4.23 -7.43 -5.03 -8.32 -6.52 -10.19	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20 35.90 25.40 37.40 25.90 37.70 26.40 37.70 26.40 37.70 28.30 40.70 28.30 40.70 27.40 39.20 25.50	Factor dB 0.11	dB 10.36 10.24 10.24 10.21 10.21 10.17 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.17 10.17 10.17	Average QP Average QP	_	
Conditi Project Mode IMEM 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 * 17 18 19 20	on: FCC 18 : (FC) 6N : Mode 2 : 352158 Freq MHz 0.33 0.33 0.44 0.44 0.52 0.52 0.65 0.65 0.65 0.65 0.87 0.98 1.09 1.09 1.09 1.21 1.32 1.32 1.47 1.47 2.76	BB_QP  LI    12  12    50799986  Level	- 19 Over Limit dB -10.43 -10.73 -6.02 -5.02 -10.98 -9.18 -11.52 -9.82 -10.33 -8.33 -9.83 -8.03 -9.83 -8.03 -9.33 -6.73 -4.23 -7.43 -5.03 -8.32 -6.52	Limit Line dBuV 49.40 59.40 47.07 57.07 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 28.50 38.20 30.70 41.70 24.70 36.50 24.20 35.90 25.40 37.40 25.90 37.70 26.40 38.90 29.00 41.50 28.30 40.70 27.40 39.20 25.50 36.60	Factor dB 0.11	dB 10.36 10.24 10.24 10.21 10.17 10.17 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.16 10.17 10.17 10.17 10.17	Average QP Average QP	_	

**SPORTON INTERNATIONAL (SHENZHEN) INC.** TEL : 86-755-8637-9589 FAX : 86-755-8637-9595 FCC ID : WVBAQ501X Page Number: 16 of 24Report Issued Date: Dec. 19, 2016Report Version: Rev. 01Report Template No.: BU5-FD15B Version 1.3



Test Mode :	Mode 4			Tem	peratui	re :	21~2	<b>3</b> ℃		
Test Engineer :	Tao Cher	ng		Rela	tive Hu	midity :	41~4	3%		
Test Voltage :	120Vac /	60Hz		Pha	se :		Line			
	WCDMA	Band II	ldle + B	luetooth	Idle + \	WLAN(2.4	4G) Idl	e + USB Cat	ole (Data Lin	
Function Type :	with Note	book) +	Earpho	ne + GF	S Rx fc	or Sample	1			
100 <sup>L0</sup>	evel (dBuV)					Dat	e: 2016-12	2-07 Time: 14:10:	32	
90-										
80									_	
70									-	
60								FCC 15B_Q	2	
50	2							FCC 15B_AV	G	
50	ĪC .									
40		WALL MARY		a sta		un anotala		N A M	—	
30	3 5		Mr. Marine	Whereproperty	<sup>∧(</sup>	and the stand	police and the second second	and the second of the second o		
20										
10-										
0 <mark>-</mark> -1	5.2	.5	1		2	5	10	20	30	
				Frequ	ency (MHz)	)				
Site	: CO01-S									
	n: FCC 15 : (FC)6N	_	SN_201608	509 LINE						
Mode	: Mode 4									
IMEI	: 352155		19							
				Limit			Cable	_		
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark		
	MHz	dBuV	dB	dBuV	dBuV	dB	dB			
1	0.17	30.59	-24.44	55.03	19.90	0.13	10.56	Average		
2 *			-17.14				10.56			
3			-27.79					Average		
4 5			-18.99				10.52			
5	0.22		-27.87 -23.87			0.11 0.11	10.48	Average OP		
7			-27.16		12.30			Average		
8		36.11	-23.86	59.97	25.60	0.11	10.40	-		
9	0.49		-22.81					Average		
10	0.49		-20.41				10.22			
11 12	2.40 2.40		-19.90			0.12		Average		
	2.40	33.00	-23.00	36.00	12.10	0.12	TO'T8	OP		







## 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	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(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.

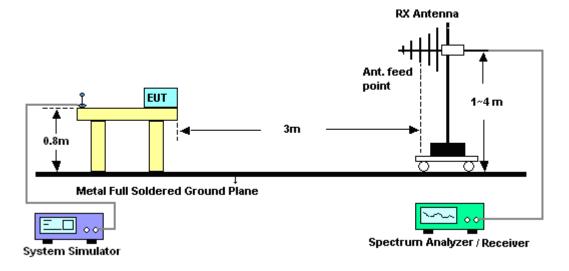
### 3.2.3. Test Procedures

- 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.
- 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 (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

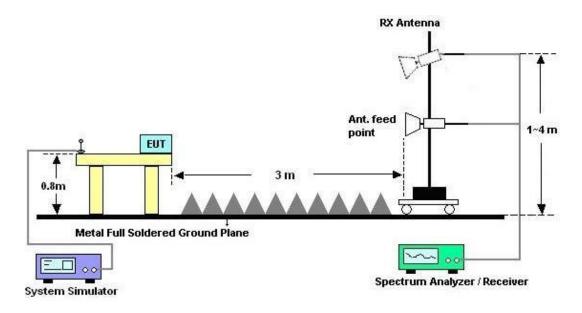


### 3.2.4. Test Setup of Radiated Emission

#### For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz

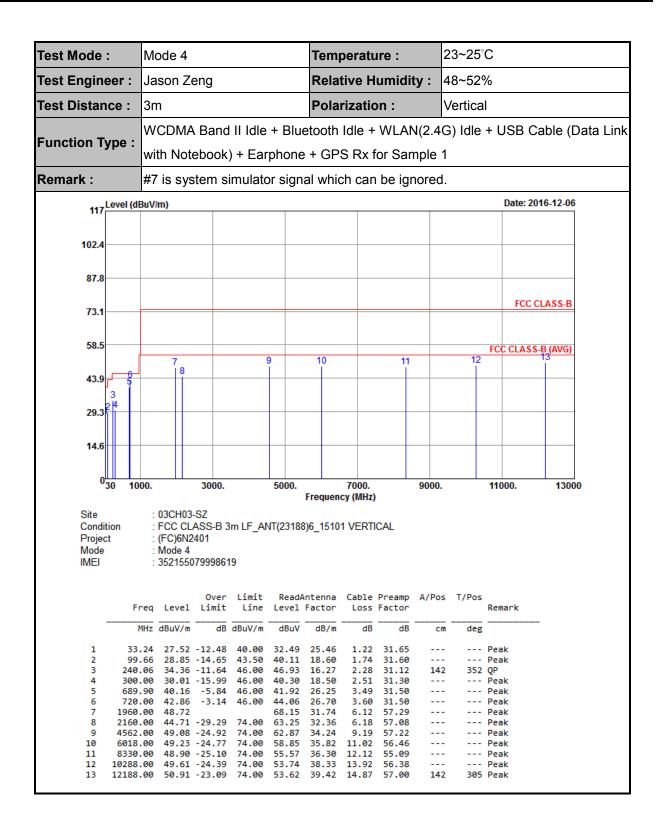




#### 3.2.5. Test Result of Radiated Emission

Test Mode :		Mode	4				Tem	mperature :			23~25°C			
Test Engine	er:	Jason	Zeng				Rela	Relative Humidity :			48~52%			
Test Distan	ce :	3m					Pola	rizatio	on :	F	lorizon	ntal		
Function Ty	pe :		WCDMA Band II Idle + Bluetooth Idle + WLAN(2. with Notebook) + Earphone + GPS Rx for Sample							•	⊥ 4G) Idle + USB Cable (Data I			
Remark :		#7 is s	system	ı sim	nulato	r signa	al whic	ch car	ı be ign	ored.				
117	Level (d	BuV/m)										Da	ate: 2016-12-06	
102.4														
87.8														
73.1													FCC CLASS-B	
58.5		7					10	1			12	FCC C	LASS-B (AVG) 13	
43.9	2	Í	8		9		<u> </u>							
29.3	<b>a</b> <sup>6</sup>													
14.6														
0														
U.	30 10	000.	30	00.		5000.	Frequer	7000. ncy (MHz	:)	9000.		11000	). 1300	0
Site Condir Projec Mode IMEI	t	: FCC : (FC) : Mod	6N2401 e 4 15507999 0	98619 ver	Limit	ReadA		Cable	ZONTAL Preamp Factor	A/Pos	T/Pos	Remar	k	
		MHz dBu\	//m	dB d	lBuV/m	dBuV	dB/m	dE	dB	cm	deg			
1 2 3 4 5 6	240 299 300 720 794	.06 42. .73 33. .00 32. .00 38. .20 35.	.14 -3 .50 -12 .95 -13 .49 -7 .04 -10	.86 .50 .05 .51	46.00 46.00 46.00 46.00	54.71 43.79 43.24 39.69 35.42	16.27 18.50 18.50 26.70 27.35	2.28 2.51 2.51 3.60 3.77	31.20 31.12 31.30 31.30 31.50 31.50	137  	31   	Peak Peak Peak Peak		
7 8 9 10	2406 3818	.00 49. .00 44. .00 48. .00 49.	.97 -29 .21 -25	.79	74.00	62.58 63.50	33.73	6.55 8.42	57.44			Peak Peak Peak Peak		
11 12 13	9852	.00 49. .00 49.	.40 -24	.60	74.00	53.95	37.93	13.75				Peak Peak Peak		







## 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Oct. 11, 2016	Dec. 07, 2016	Oct. 10, 2017	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103892	9kHz~30MHz	Jan.12, 2016	Dec. 07, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103912	9kHz~30MHz	Jan.12, 2016	Dec. 07, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 16, 2016	Dec. 07, 2016	Jul. 15, 2017	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 11, 2016	Dec. 07, 2016	Oct. 10, 2017	Conduction (CO01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	May 07, 2016	Dec. 06, 2016	May 06, 2017	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz	May 07, 2016	Dec. 06, 2016	May 06, 2017	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	May 21, 2016	Dec. 06, 2016	May 20, 2017	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-1355	1GHz~18GHz	May 07, 2016	Dec. 06, 2016	May 06, 2017	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 11, 2016	Dec. 06, 2016	Oct. 10, 2017	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-001 01800-30-10 P-R	1943528	1GHz~18GHz	Oct. 11, 2016	Dec. 06, 2016	Oct. 10, 2017	Radiation (03CH03-SZ
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Dec. 06, 2016	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 06, 2016	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 06, 2016	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required



## 5. Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of	5.1 dB
Confidence of 95% (U = 2Uc(y))	5.1 00

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

Measuring Uncertainty for a Level of	5.0 dB
Confidence of 95% (U = 2Uc(y))	5.0 UB