

FCC Test Report

APPLICANT	: Brightstar Corporation
EQUIPMENT	: smart phone
BRAND NAME	: Avvio
MODEL NAME	: 751
FCC ID	: WVBA751X
STANDARD	: FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION	: Certification

This is a variant report which is only valid together with the original test report. The product was received on Jun. 06, 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.

Ven Chen

Prepared by: Ken Chen / Manager

5n.oe/sai

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 : WVBA751X Page Number : 1 of 6 Report Issued Date : Jun. 22, 2016 Report Version : Rev. 01 Report Template No.: BU5-FD15B Version 1.1



TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
1	GENE		4
١.	GENE		4
	1.1.	Applicant	4
	1.2.	Manufacturer	4
	1.3.	Product Feature of Equipment Under Test	4
	1.4.	Product Specification of Equipment Under Test	5
	1.5.	Re-use of Measured Data	6

APPENDIX A. ORIGINAL REPORT



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC651702-01	Rev. 01	Initial issue of report	Jun. 22, 2016



1. General Description

1.1. Applicant

Brightstar Corporation

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

1.2. Manufacturer

Mobiwire Mobiles (Ningbo) Co.,Ltd.

No. 999 Dacheng East Road Fenghua, Zhejiang China

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	smart phone
Brand Name	Avvio
Model Name	751
FCC ID	WVBA751X
	GSM/GPRS/EGPRS(Downlink Only)/
EUT supports Padios application	WCDMA/HSPA/HSPA+(16QAM uplink is not supported)/
EUT Supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40/
	Bluetooth v3.0+EDR/Bluetooth v4.0 LE
EUT Stage	Production Unit

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			
Tx Frequency	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		
Rx Frequency	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 FM : 88 MHz ~ 108 MHz		
Antenna Type	WWAN : PIFA Antenna WLAN : Monopole Antenna Bluetooth : Monopole Antenna GPS : Monopole Antenna		
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK(Downlink Only) WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Uplink is not supported) 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth v4.0 LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : π /4-DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK FM		



1.5.Re-use of Measured Data

1.5.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: 751, FCC ID: WVBA751X) is electrically identical to the reference device (Model: M235, P135, FCC ID: WVB235M) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 178919 D01.

1.5.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Operational Description.

The re-used RF data includes the following bands provided in Appendix A (Sporton RF Report No. FC651702 for the reference device Model: M235, P135, FCC ID: WVB235M).

1.5.3 Spot Check Verification Data Section

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for radiated emission, the test result were consistent with FCC ID WVB235M.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

1.5.4 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test/RF Exposure	Report Title/Section
JBP	WVB235M	Part15B(FC651702)	All sections applicable



Appendix A. Original Report

Please refer to Sporton report number FC651702 as below.



FCC Test Report

APPLICANT	:	Brightstar Corporation
EQUIPMENT	:	smart phone
BRAND NAME	:	mint, Pulsare
MODEL NAME	:	M235, P135
FCC ID	:	WVB235M
STANDARD	:	FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION	:	Certification

The product was received on May 17, 2016 and testing was completed on May 29, 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.

lon Cher

Prepared by: Ken Chen / Manager

noelsai

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



TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SU	MMAR	Y OF TEST RESULT	4
1.	GENE	RAL DESCRIPTION	5
	1.1.	Applicant	5
	1.2.	Manufacturer	5
	1.3.	Product Feature of Equipment Under Test	5
	1.4.	Product Specification of Equipment Under Test	6
	1.5.	Modification of EUT	7
	1.6.	Test Location	7
	1.7.	Applicable Standards	7
2.	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	8
	2.1.	Test Mode	8
	2.2.	Connection Diagram of Test System	10
	2.3.	Support Unit used in test configuration and system	11
	2.4.	EUT Operation Test Setup	12
3.	TEST	RESULT	13
	3.1.	Test of AC Conducted Emission Measurement	13
	3.2.	Test of Radiated Emission Measurement	19
4.	LIST	OF MEASURING EQUIPMENT	23
5.	UNCE	RTAINTY OF EVALUATION	26

APPENDIX A. SETUP PHOTOGRAPHS





REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC651702	Rev. 01	Initial issue of report	Jun. 08, 2016
FC651702	Rev. 02	Update report for adding brand name "Pulsare" and model name "P135".	Jun. 15, 2016



Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1 15.10	15.107	AC Conducted Emission	< 15.107 limits	PASS	14.71 dB at
					0.620 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	3.17 dB at
					180.120 MHz

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

Mobiwire Mobiles (Ningbo) Co.,Ltd.

No. 999 Dacheng East Road Fenghua, Zhejiang China

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	smart phone
Brand Name	mint, Pulsare
Model Name	M235, P135
FCC ID	WVB235M
	GSM/GPRS/EGPRS(Downlink Only)/
FUT supports Padios application	WCDMA/HSPA/HSPA+(16QAM uplink is not supported)/
	WLAN2.4GHz 802.11b/g/n HT20/HT40/
	Bluetooth v3.0+EDR/Bluetooth v4.0 LE
	Conduction: 861578011103911/861578011103929
	Radiation: 861578011103374/861578011103382
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.
- There are two different types of EUT. They are with different brand names and model names. The brand name "mint" with model name "M235" and "Pulsare" with model name "P135". The others are the same including circuit design, PCB board, structure and all components. The only difference is for different market purpose.



1.4. Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx Frequency	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		
Rx Frequency	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 FM : 88 MHz ~ 108 MHz		
Antenna Type	WWAN : PIFA Antenna WLAN : Monopole Antenna Bluetooth : Monopole Antenna GPS : Monopole Antenna		
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK(Downlink Only) WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Uplink is not supported) 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth v4.0 LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : π /4-DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK FM		



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 Cito No	Sporton Site No.					
Test Site No.	CO01-SZ					

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.						
No. 3 Building, the third floor of south, Shahe River west, Fen							
Test Site Location	warehouse, Nanshan District, Shenzh	en, Guangdong, P. R. China					
	TEL: +86-755- 3320-2398						
Toot Site No	Sporton Site No.	FCC Registration No.					
Test Site NO.	03CH02-SZ	566869					

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	\boxtimes		
2.	Data application transferred mode					
	(EUT connected with notebook)					

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



Test Items	EUT Configure Mode	Function Type				
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Front) + SIM1 + SD Card <fig.1></fig.1>				
AC Conducted	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM2 + SD Card <fig.1></fig.1>				
Emission	1/2	Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM1 + SD Card <fig.1></fig.1>				
		Mode 4: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM2 + SD Card + FM Rx <fig.2></fig.2>				
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Front) + SIM1 + SD Card <fig.1></fig.1>				
Radiated Emissions < 1GHz	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM2 + SD Card <fig.1></fig.1>				
		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM1 + SD Card <fig.1></fig.1>				
		Mode 4: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM2 + SD Card + FM Rx <fig.2></fig.2>				
Radiated		Mode 1: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera(Back) + SIM2 + SD Card <fig.1></fig.1>				
$Emissions \geq 1GHz$	1/2	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM2 + SD Card + FM Rx <fig.2></fig.2>				
Remark:	1					
1. The worst	case of AC i	s mode 1; and the USB Link mode of AC is mode 4, the test data of				
these mod	les are repor	ted.				
2. The worst case of RE < 1G is mode 2; and the USB Link mode of RE is mode 4, the test data						

- of these modes are reported.
- 3. 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	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m with Core
4.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
5.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
6.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
7.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
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 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. 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.
- 5. Turn on FM function.



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 1		Ten	nperatu	re :	21~2	21~23 ℃		
Test Engineer :	Tao Che	Tao Cheng			ative H	umidity :	: 41~43%		
Test Voltage :	120Vac /	120Vac / 60Hz			ise :		Line		
Eurotion Type :	GSM850	Idle +	Bluetootl	n Idle +	WLAN	Idle + USE	3 Cabl	e (Charging	from Adapter)
runction type.	+ Earpho	arphone + Camera(Front) + SIM1 + SD Card							
100 <mark>-</mark>	evel (dBuV)					Date	: 2016-0	5-25 Time: 10:52	:15
90									
00									
80									
70								TCC 4ED C	
60								FCC 15B_G	<u>#</u>
50-	2							FCC 15B_AV	<u>/G</u>
40	An.	an Awan	A RABADUL.	NAMA	which and	MARY .			
30	(17 WW	A N LANA	1	an shirtan	N. V.W.A.	" MWN	Anterior	and more way	
30			9				1. In a start	alahata a Abat, a a .	.л.
20									
10									
0 .1	5.2	.5	1		2	5	10	20	30
				Frequ	ency (MHz))			
Site	: CO01-S	Z							
Project	n: FCC 15 : (FC) 65	B_QP_LI 1702	SN_201605	09 LINE					
Mode	: Mode 1								
IMEI	: 861578	0111039	11/861780	1110392	9				
	_		Over	Limit	Read	LISN	Cable		
	Freq	TeAsl	Limit	Line	Level	Factor	Loss	Remark	
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.19	28.04	-26.20	54.24	17.39	0.12	10.53	Average	
2	0.19	44.64	-19.60	64.24	33.99	0.12	10.53	QP	
3	0.40	29.16	-18.74	47.90	18.80	0.11	10.25	Average	
4	0.40	41.96	-15.94	57.90	31.60	0.11	10.25	QP	
5	0.62	28.49	-17.51	46.00	18.20	0.11	10.18	Average	
6 *	0.62	41.29	-14.71	56.00	31.00	0.11	10.18	QP	
/ 0	0.71	20.17	-16 02	56.00	20 90	0.11	10.16	Average	
9	0.74	25 47	-20 52	46 00	15 20	0.11	10.16	¥F Average	
10	0.79	38.27	-17.73	56.00	28.00	0.11	10.16	QP	
11	4.01	26.95	-19.05	46.00	16.60	0.13	10.22	Average	
12	4.01	36.85	-19.15	56.00	26.50	0.13	10.22	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	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 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 μ V/m) = 20 log Emission level (μ 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 2 Temperatur		rature	:	23~	∕25°C						
Test Engineer :	Jeff Yao			Relativ	e Hur	nidity :	48~	[.] 52%			
Test Distance :	3m			Polariz	ation	:	Hor	izonta	al		
Function Type :	GSM1900 Adapter) +	Idle + Blu Earphone -	etootł ⊦ Carr	th Idle + WLAN Idle + USB Cable (Charging f mera(Back) + SIM2 + SD Card			from				
Remark :	#7 is syste	m simulator	signa	I which	can b	e ignore	ed.				
117	(dBuV/m)								Date	: 2016-05-29	
102.4											
87.8											
73.1									FL	C CLASS-B	
58.5									FCC CLA	ASS-B (AVG)	
43.9 2 4 1 5 6	7	9			10	<u>11</u>		12		13	
29.3											
14.6											
030	1000.	3000.	5000.	Frequen	7000. cy (MHz)	!	9000.		11000.	1300)
Condition Project Mode IMEI Plane	: FCC CL/ : (FC) 651 : Mode 2 : 8615780 : Y	ASS-B 3m LF_4 702 11103374/86157	NT(231) 801110	88)6_1510 3382	1 HORIZ	ONTAL					
	Freq Level	Over Limit Limit Line	Leve	Antenna 1 Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark		
	MHz dBuV/m	dB dBuV/m	dBu	/ dB/m	dB	dB	cm	deg			
1 1 2 1 3 2(4 3(5 3) 6 4	49.88 54.39 80.12 40.33 54.09 35.24 90.00 41.75 11.90 35.45 79.90 34.99	-3.17 43.50 -10.76 46.00 -4.25 46.00 -10.55 46.00 -11.01 46.00	47.9 47.9 41.7 46.5 39.9 35.7	17.00 16.20 17.05 17.05 18.50 18.95 23.37	1.20 1.50 1.57 1.71 1.71 2.12	25.31 25.35 25.12 25.04 25.14 26.23	100 	0	Peak Peak Peak Peak Peak Peak		
7 194 8 200 9 390 10 699 11 760 12 1022	00.00 48.50 28.00 39.58 26.00 42.86 50.00 43.18 78.00 43.50 82.00 44.25 84.20 44.25	-34.42 74.00 -31.14 74.00 -30.82 74.00 -30.50 74.00 -29.75 74.00	70.8 61.4 62.1 55.2 55.5 52.7	31.74 32.22 33.83 36.12 436.37 238.33	4.59 4.67 6.65 9.26 10.33 12.17	58.64 58.80 59.75 57.49 58.74 58.97			Peak Peak Peak 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;	Nov. 23, 2015	May 25, 2016	Nov. 22, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103892	9kHz~30MHz	Jan. 12, 2016	May 25, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103912	9kHz~30MHz	Jan. 12, 2016	May 25, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Aug. 07, 2015	May 25, 2016	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20, 2015	May 25, 2016	Oct. 19, 2016	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz; Max 30dBm	Oct. 20, 2015	May 29, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Oct. 20, 2015	May 29, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	May 07, 2016	May 29, 2016	May 06, 2017	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 11, 2016	May 29, 2016	Jan. 10, 2017	Radiation (03CH02-SZ)
Amplifier	HP	8447F	3113A04622	9kHz~1300MHz / 30 dB	Aug. 07, 2015	May 29, 2016	Aug. 06, 2016	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 20, 2015	May 29, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	May 29, 2016	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	May 29, 2016	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	May 29, 2016	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required



5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.3 dB
Confidence of 95% (U = 2Uc(y))	2.3 dB

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

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