

FCC Test Report

APPLICANT: Brightstar Corporation

EQUIPMENT: mobile phone

BRAND NAME : Avvio

MODEL NAME : Avvio 935S, Avvio 935

FCC ID : WVBA935X

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Feb. 26, 2013 and completely tested on Mar. 15, 2013. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager





Report No.: FC322601

SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA935X Page Number : 1 of 24
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC322601	Rev. 01	Initial issue of report	Mar. 15, 2013

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
				< 15.107 limits		Under limit
3.1	15.107	7.2.4	AC Conducted Emission	< RSS-Gen table 2 limits	PASS	3.44 dB at
				< KSS-Geri lable 2 limits		0.540 MHz
				< 15.109 limits or		Under limit
3.2	15.109	7.2.3.2	Radiated Emission	< RSS-Gen table 1 limits	PASS	4.05 dB at
				(Section 6)		106.630 MHz

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1. General Description

1.1. Applicant

Brightstar Corporation

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

1.2. Manufacturer

Konka Telecommunications Techenology co., LTD.

Overseas Chinese Town, Nanshan District, Shenzhen, China

1.3. Feature of Equipment Under Test

	Product Feature
Equipment	mobile phone
Brand Name	Avvio
Model Name	Avvio 935S, Avvio 935
FCC ID	WVBA935X
EUT supports Radios application	GSM/GPRS/WLAN 11bgn/Bluetooth
HW Version	M5802V1.2
SW Version	KAAT621D_EN_CN_0.90.629
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 different types of EUT. They are single SIM card mobile (Model Name: Avvio 935) and dual SIM card mobile (Model Name: Avvio 935S). The others are the same including circuit design, PCB board, structure and all components. It is special to declare. After pre-scan two types of EUT, we found test result of the sample that dual SIM was the worst, so we choose dual SIM card mobile to perform all tests.

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1.4. Product Specification of Equipment Under Test

Product Specification subjective to this standard					
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz				
Rx Frequency Range	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz FM: 88 MHz ~ 108 MHz				
Antenna Type	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna				
Type of Modulation	GSM / GPRS: GMSK 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth BDR (1Mbps) : GFSK Bluetooth EDR (2Mbps) : π /4-DQPSK Bluetooth EDR (3Mbps) : 8-DPSK FM				

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1.5. Test Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.					
	No. 3-2, PingXiang Ro	oad, Kunshan, Jiangsu	Province, P.R.C.			
Test Site Location	TEL: +86-0512-5790-	0158				
	FAX: +86-0512-5790-0958					
Took Oiko No	Sporton	Site No.	FCC/IC Registration No.			
Test Site No.	CO01-KS	03CH01-KS	149928/4086E-1			

1.6. Applied 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 C63.4-2003

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

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 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.

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

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.

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Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle + Earphone + Camera + SIM1 <fig. 1=""></fig.>
AC Conducted	1/2	Mode 2: GSM1900 Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle + Earphone + MP3 + SIM1 <fig. 1=""></fig.>
Emission		Mode 3: GSM850 Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle + Earphone + FM Rx + SIM1 <fig. 2=""></fig.>
		Mode 4: GSM1900 Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth Idle + Earphone + SIM1 <fig. 3=""></fig.>
	1/2	Mode 1: GSM850 Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle + Earphone + Camera + SIM1 <fig. 1=""></fig.>
Radiated Emissions < 1GHz		Mode 2: GSM1900 Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle + Earphone + MP3 + SIM1 <fig. 1=""></fig.>
EIIIISSIOIIS < TGHZ		Mode 3: GSM850 Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle + Earphone + FM Rx + SIM1 <fig. 2=""></fig.>
		Mode 4: GSM1900 Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth Idle + Earphone + SIM1 <fig. 3=""></fig.>
Radiated Emissions ≥ 1GHz	2	Mode 1: GSM1900 Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth Idle + Earphone + SIM1 <fig. 3=""></fig.>

Remark:

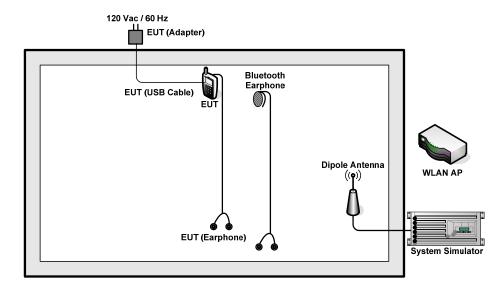
- 1. The worst case of AC Conducted Emission is mode 1; only the test data of this mode was reported.
- The USB link of AC Conducted Emission is mode 4; only the test data of this mode was reported.
- 3. The worst case of Radiated Emissions is mode 4; only the test data of this mode was reported.
- 4. Link with PC means data application transferred mode between EUT and PC.

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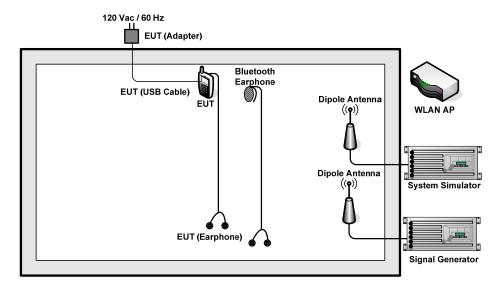


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2.2. Connection Diagram of Test System



<Fig. 1>

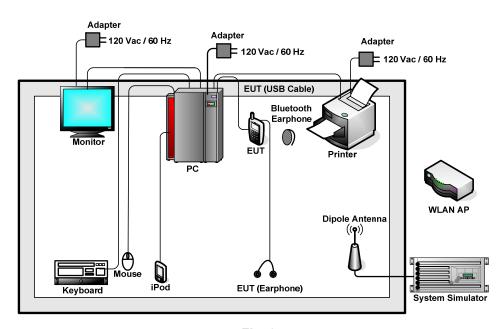


<Fig. 2>

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<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.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	Signal Generator	R&S	SMR40	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
3.	PC	Dell	DCSM	FCC DoC	N/A	Unshielded, 1.8 m
4.	PC	Dell	MT320	FCC DoC	N/A	Unshielded, 1.8 m
5.	WLAN AP	D-link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
6.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
7.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
8.	Monitor	Dell	E1910Hc	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
9.	(USB) Keyboard	Dell	SK-8115	FCC DoC	Shielded, 1.5 m	N/A
10.	(USB) Mouse	Dell	N231	FCC DoC	Shielded, 1.8 m	N/A
11.	(USB) Mouse	Dell	MO56UC	FCC DoC	Shielded, 1.8 m	N/A
12.	Printer	HP	Laser Jet 1018	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m
13.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A

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2.4. **Test Software**

The EUT was in GSM 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. Execute the program, "Winthrax" under WIN7 installed in PC for files transfer with EUT via USB cable.
- 2. Turn on FM function to keep EUT receiving continuous signals from Signal Generator.
- 3. Execute "Music Player" to play MP3 file.
- 4. Turn on camera to capture images.

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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

See list of measuring instruments 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 with Maximum Hold Mode.

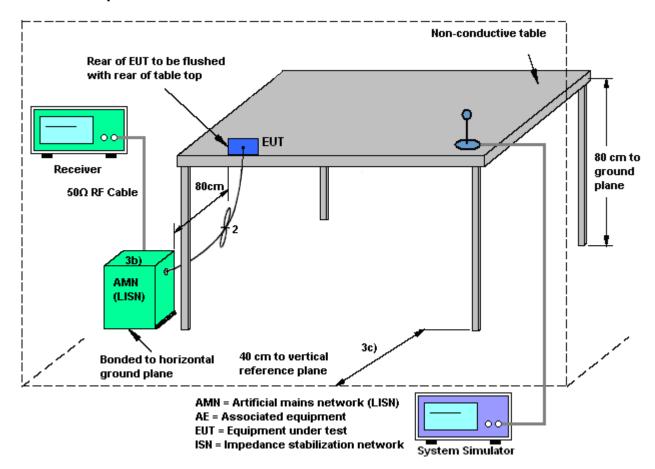
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3.1.4 Test Setup

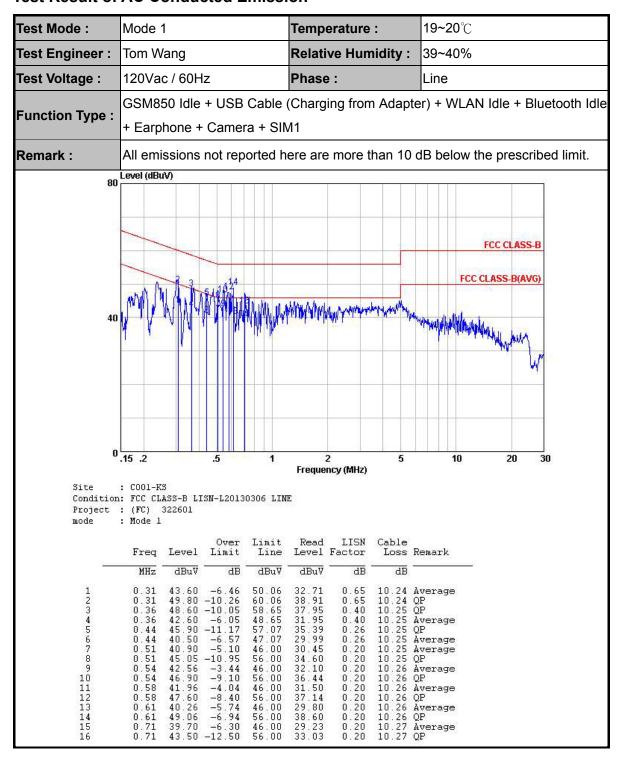


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3.1.5 Test Result of AC Conducted Emission



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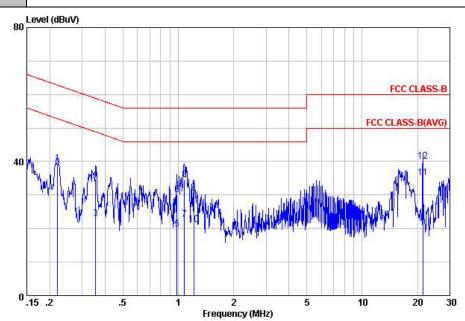
FCC Test Report

Test Mode :	Mode 1			Temp	erature	:	19~20°C		
Test Engineer :	Tom Wang			Relati	ve Hun	nidity:	39~40%	, D	
Test Voltage :	120Vac / 60H	łz		Phase	:		Neutral		
Function Type :	GSM850 Idle	GSM850 Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetoo							
	+ Earphone -	- Camera	a + SIN	<i>I</i> 11					
Remark :	All emissions	not repo	orted h	ere are	more t	han 10	dB below	the pres	cribed limit.
80	Level (dBuV)								22
40	.15 .2	5	4 16	i _M hwytyl	Milyanen der Mild	**************************************	100	FCC CLASS-B(A	IVG)
Site Condition Project	: C001-KS : FCC CLASS-B L : (FC) 322601 : Mode 1		9,50	Freque	ncy (MHz)				
	Freq Level		Limit Tine	Read Level	LISN	Cable Loss F	emark		
1 <u>2</u>	MHz dBuV		dBu∀	dBu₹				<u>0</u> 2	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0.30 40.60 0.40 49.80 0.43 40.90 0.43 50.81 0.47 46.08 0.47 40.38 0.59 47.60 0.59 47.60 0.70 46.97 0.70 39.50 0.77 39.50 0.77 48.95 0.93 38.29	-7.40 -8.10 -6.34 -6.43 -10.50 -8.40 -6.09 -9.03 -6.50 -6.50 -7.05 -7.71	47.90 57.90 47.24 57.24 56.58 46.00 46.00 46.00 46.00 46.00	34 . 64 29 . 64 29 . 84 39 . 14 30 . 29 35 . 50 29 . 80 37 . 09 29 . 03 29 . 03 29 . 03 29 . 05 27 . 89 37 . 50	0.72 0.72 0.41 0.36 0.36 0.33 0.25 0.25 0.25 0.20 0.18 0.18	10 . 24	IP verage IP Verage IP IP IP Verage IP Verage IP Verage Verage Verage IP Verage Verage IP Verage IP Verage		

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19~20℃ Test Mode: Mode 4 Temperature : 39~40% Test Engineer: Tom Wang Relative Humidity: 120Vac / 60Hz Phase: Test Voltage : Line GSM1900 Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth Idle + Function Type: Earphone + SIM1 Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : COO1-KS

Condition: FCC CLASS-B LISN-L20130306 LINE

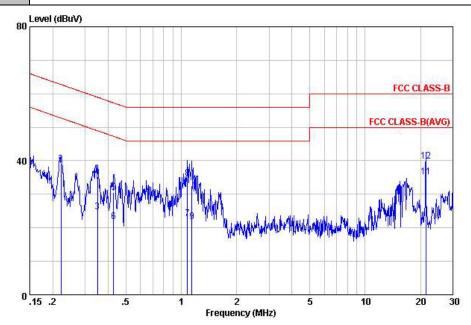
Project : (FC) 322601 mode : Mode 4

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu₹	dB	dBuV	dBu₹	dB	dB	
1	0.22	39.35	-23.44	62.79	28.18	0.95	10.22	QP
2	0.22	38.35	-14.44	52.79	27.18	0.95	10.22	Average
3	0.36	22.87	-25.96	48.83	12.20	0.42		Average
4	0.36	34.87	-23.96	58.83	24.20	0.42	10.25	OP
5	0.98	19.88	-26.12	46.00	9.50	0.10	10.28	Average
1 2 3 4 5 6 7 8 9	0.98	29.98	-26.02	56.00	19.60	0.10	10.28	
7	1.08	22.78	-23.22	46.00	12.40	0.10	10.28	Average
8	1.08	34.58	-21.42	56.00	24.20	0.10	10.28	
9	1.22	30.68	-25.32	56.00	20.30	0.10	10.28	ÖP
10	1.22	21.08	-24.92	46.00	10.70	0.10	10.28	Average
11	21.37	35.20	-14.80	50.00	24.59	0.10	10.51	Average
12	21.37	40 10	-19.90	60.00	29.49	0.10	10.51	

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19~20℃ Test Mode: Mode 4 Temperature : 39~40% Test Engineer: Tom Wang Relative Humidity: Phase: Test Voltage : 120Vac / 60Hz Neutral GSM1900 Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth Idle + Function Type: Earphone + SIM1 Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : COOl-KS

Condition: FCC CLASS-B LISN-N20130306 NEUTRAL

Project : (FC) 322601 mode : Mode 4

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
-	MHz	dBu₹	dB	dBu₹	dBuV	dB	dB	
1	0.22		-14.09	52.74	27.47	0.96		Average
2	0.22	39.05	-23.69	62.74	27.87	0.96	10.22	
3	0.35	24.77	-24.19	48.96	14.01	0.51	10.25	Average
4	0.35	35.17	-23.79	58.96	24.41	0.51	10.25	QP -
5	0.43	30.57	-26.72	57.29	19.95	0.37	10.25	OP
1 2 3 4 5 6 7 8 9	0.43	21.77	-25.52	47.29	11.15	0.37	10.25	Average
7	1.08	22.79	-23.21	46.00	12.41	0.10		Average
8	1.08	34.69	-21.31	56.00	24.31	0.10	10.28	
9	1.14	21.89	-24.11	46.00	11.51	0.10	10.28	Average
10	1.14	32.59	-23.41	56.00	22.21	0.10	10.28	
11	21.37	35 18	-14.82	50.00	24.47	0.20	10.51	Average
12	21.37		-20.02	60.00	29.27	0.20	10.51	

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Test of Radiated Emission Measurement 3.2.

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

See list of measuring instruments 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.
- For each suspected emission, the EUT was arranged to its worst case and then tune the 5. 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 6. Hold Mode.
- 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 (dBuV/m) = 20 log Emission level (uV/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level

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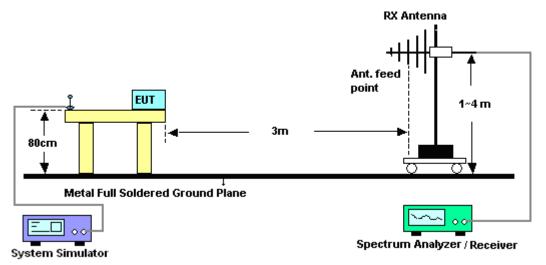
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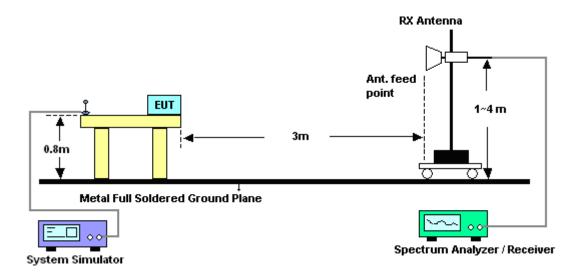
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission

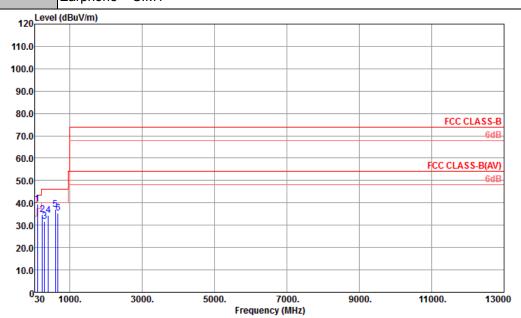
Test Mode :		Mode 4	4			Tempe	erature	:	22~23	3°C			
Test Engineer	:	Steven Hao				Relati	Relative Humidity :		41~42	41~42%			
Test Distance :	:	3m				Polari	Polarization :		Horiz	Horizontal			
		GSM1	GSM1900 Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetoc								etooth Id		
Function Type	:	Earphone + SIM1											
120Le	vel	(dBuV/m)	· · · · · · · · · · · · · · · · · · ·										
110.0													
100.0													
90.0													
80.0				<u> </u>							500.01		
70.0											FCC CL	-6dB-	
60.0				-							CC CLASS	C D(W)	
50.0	_									1	LL LLAG	6dB	
40.0	5 6	5		-									
30.0	\mathbb{H}	 							-				
20.0	\mathbb{H}			-					-				
10.0	\mathbb{H}												
030	Ш	1000.	30	000.	5000.		7000.	_	0000.	110	00.	13000	
Site			02000	4 1/0		Frequer	ncy (MHz)						
Condition	ion		: 03CH01		n LF ANT-	-100803	HORIZO	NTAL					
Project			: (FC) 32		_								
Mode			: Mode 4	Į.									
		Freq	Level	Over Limit	Limit Line	ReadA Level		Cable F Loss F		A/Pos	T/Pos	Remark	
-		MHz	$\overline{\text{dBuV/m}}$	dB	$\overline{dBuV/m}$	dBuV	dB/m		dB	cm	deg		
1 2 3 4	4	90. 14 178. 41 239. 52 303. 54	36. 25 35. 60 34. 39	-9. 69 -7. 25 -10. 40 -11. 61	43. 50 43. 50 46. 00 46. 00	57. 99 60. 50 56. 66 53. 69	8. 89 8. 54 11. 50 13. 08	0. 54 0. 77 0. 89 0. 99	33. 61 33. 56 33. 45 33. 37	100 	125 	Peak Peak Peak Peak	
5 6		477. 17 714. 82		-7. 56 -7. 72	46. 00 46. 00	53. 55 50. 17	16. 79 19. 44	1. 26 1. 51	33. 16 32. 84			Peak Peak	

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22~23°C Test Mode: Mode 4 Temperature: Steven Hao Relative Humidity: 41~42% Test Engineer: Test Distance : 3m Polarization: Vertical

GSM1900 Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth Idle + Function Type: Earphone + SIM1



Site : 03CH01-KS

Condition : FCC CLASS-B 3m LF_ANT-100803 VERTICAL

Project : (FC) 322601 Mode : Mode 4

	Freq	Level		Limit Line						T/Pos	Remark
_	MHz	$\overline{\text{dBuV/m}}$	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	cm	deg	
1 !	106.63	39. 45	-4.05	43.50	61.07	11. 40	0.58	33.60	100		Peak
2	239. 52	34. 79	-11. 21	46.00	55.85	11.50	0.89	33. 45			Peak
3	299.66	31. 71	-14.29	46.00	51. 11	12.99	0.98	33.37			Peak
4	408.30	34. 33	-11.67	46.00	50.43	16.03	1. 15	33. 28			Peak
5	600.36	37. 26	-8. 74	46.00	50. 22	18.59	1.39	32.94			Peak
6	672.14	35, 53	-10.47	46.00	47.92	19.06	1.46	32.91			Peak

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	Jun. 01, 2012	Mar. 15, 2013	May 31, 2013	Conduction (CO01-KS)
LISN	MessTec	AN3016	60103	9kHz~30MHz	Dec. 29, 2012	Mar. 15, 2013	Dec. 28, 2013	Conduction (CO01-KS)
LISN	MessTec	AN3016	60105	9kHz~30MHz	Dec. 29, 2012	Mar. 15, 2013	Dec. 28, 2013	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	N/A	Nov. 15, 2012	Mar. 15, 2013	Nov. 14, 2013	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	Mar. 15, 2013	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	100400	9kHz~30GHz	Jun. 01, 2012	Mar. 15, 2013	May 31, 2013	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2012	Mar. 15, 2013	Dec. 06, 2013	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2013	Mar. 15, 2013	Jan. 05, 2014	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	Jun. 01, 2012	Mar. 15, 2013	May 31, 2013	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 29, 2012	Mar. 15, 2013	Dec. 28, 2013	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz~40GHz	Dec. 29, 2012	Mar. 15, 2013	Dec. 28, 2013	-
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 29, 2012	Mar. 15, 2013	Dec. 28, 2013	-

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FCC Test Report

5. Uncertainty of Evaluation

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

Managerina Unacetainty for a Lavel of	
Measuring Uncertainty for a Level of	2.26
Confidence of 95% (U = 2Uc(y))	2.20

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

Measuring Uncertainty for a Level of	2.54
Confidence of 95% (U = 2Uc(y))	2.54

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	
Confidence of 95%	4.72
(U = 2Uc(y))	

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP322601 as below.

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