

Report No.: FC431002

FCC Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile Phone

BRAND NAME : BLU
MODEL NAME : Diva II

FCC ID : YHLBLUDIVAII

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Mar. 10, 2014 and testing was completed on Mar. 29, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) 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 to be compliant 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

Louis Win

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Testing Laboratory 2353



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC431002	Rev. 01	Initial issue of report	Apr. 04, 2014

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	FCC Rule Description Limit		Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	5.59 dB at
					0.450 MHz
					Under limit
2.0	45 400	Dadiated Emission	45 400 limita	DACC	2.52 dB at
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	311.900 MHz
					for Quasi-Peak

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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

Zechin Communications Co., Ltd.

Unit804, 8th Floor Desay Tech Building, Gaoxin Road South, Nanshan District, Shenzhen, China

1.3. Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Phone
Brand Name	BLU
Model Name	Diva II
FCC ID	YHLBLUDIVAII
EUT supports Radios application	GSM/GPRS/Bluetooth v3.0+EDR
HW Version	S335-MB-V1.0
SW Version	BLU_DIVA_V04_GENERIC
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.

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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				
	Bluetooth: 2402 MHz ~ 2480 MHz				
	GSM850 : 869.2 MHz ~ 893.8 MHz				
Rx Frequency	GSM1900 : 1930.2 MHz ~ 1989.8 MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz				
Antonna Typo	WWAN : PIFA Antenna				
Antenna Type	Bluetooth : PIFA Antenna				
	GSM: GMSK				
Type of Modulation	GPRS: GMSK				
	Bluetooth v3.0 EDR: GFSK, π /4-DQPSK, 8-DPSK				

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1.5. Modification of EUT

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

1.6. Test Site

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.C.					
	TEL: +86-755- 3320-2398					
Toot Site No.	Sporton	Site No.	FCC Registration No.			
Test Site No.	CO01-SZ	03CH01-SZ	831040			

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.

		Те	st Condition	on
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			\boxtimes
	(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.

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Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Camera + SIM 1 <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + MPEG4 + SIM 1 <fig.1></fig.1>
		Mode 3: GSM850 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + SIM 1 <fig.2></fig.2>
		Mode 1: GSM850 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Camera + SIM 1 <fig.1></fig.1>
Radiated Emissions < 1GHz	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + MPEG4 + SIM 1 <fig.1></fig.1>
		Mode 3: GSM850 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + SIM 1 <fig.2></fig.2>
Radiated Emissions ≥ 1GHz	2	Mode 1: GSM850 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + SIM 1 <fig.2></fig.2>

Remark:

- 1. The worst case of AC is mode 2, and the USB Link mode of AC is mode 3, the test data of these modes are reported.
- 2. The worst case of RE < 1G is mode 3; only the test data of this mode is reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.

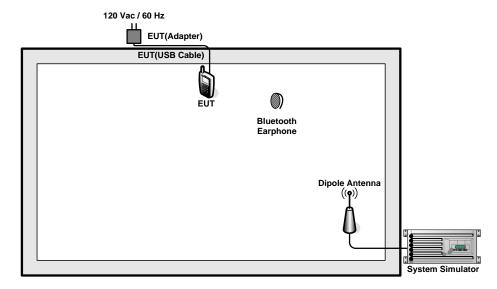
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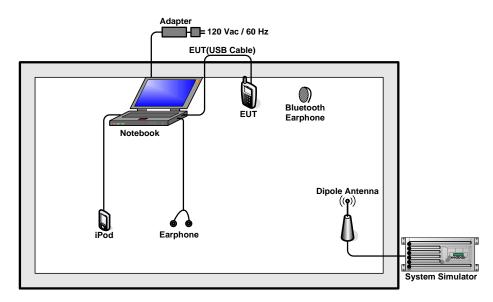


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2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

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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	CMW 500	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Nokia II		PYAHS-107W	N/A	N/A
3.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 0.8 m DC O/P: Shielded, 1.8 m
4.	iPod nano 8GB	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2m	N/A
5.	Earphone	Apple	MC690 ZP/A	FCC DoC	Unshielded, 1.6m	N/A
6.	Earphone	Apple	A1199	FCC DoC	Unshielded, 1.2m	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM 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, and the following programs installed in the EUT were programmed during the test.

- 1. Execute the program, "Winthrax" under WIN7 installed in notebook for files transfer with EUT via USB cable.
- 2. Execute "Video player" to play MPEG4 files.
- 3. 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.

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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.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

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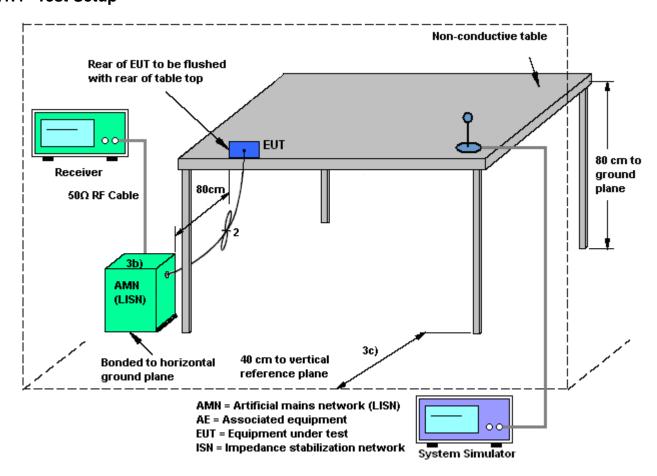
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3.1.4 Test Setup



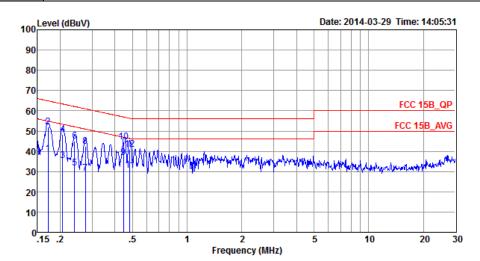
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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	22~23 ℃		
Test Engineer :	Jack Tian	Relative Humidity :	41~42%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Francisco Transco	GSM1900 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + MPEG4 +				
Function Type :	SIM 1				



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20140304 LINE

Project : (FC)431002 Mode : Mode 2

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∇	dB	dBu∇	dBu∇	dB	dB	
1	0.17	38.75	-16.15	54.90	28.20	0.22	10.33	Average
2	0.17	51.95	-12.95	64.90	41.40	0.22	10.33	QP
3	0.21	35.51	-17.85	53.36	25.00	0.22	10.29	Average
4	0.21	48.51	-14.85	63.36	38.00	0.22	10.29	QP
5	0.24	31.79	-20.29	52.08	21.30	0.24	10.25	Average
6	0.24	45.19	-16.89	62.08	34.70	0.24	10.25	QP
7	0.28	29.27	-21.67	50.94	18.80	0.25	10.22	Average
8	0.28	42.37	-18.57	60.94	31.90	0.25	10.22	QP
9 *	0.45	36.85	-10.08	46.93	26.40	0.29	10.16	Average
10	0.45	44.55	-12.38	56.93	34.10	0.29	10.16	QP
11	0.48	30.65	-15.62	46.27	20.19	0.30	10.16	Average
12	0.48	40.85	-15.42	56.27	30.39	0.30	10.16	QP

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 Test Mode :
 Mode 2
 Temperature :
 22~23°C

 Test Engineer :
 Jack Tian
 Relative Humidity :
 41~42%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Neutral

 Function Type :
 GSM1900 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + MPEG4 +

 SIM 1
 SIM 1

SIM 1

100

Level (dBuV)

Date: 2014-03-29 Time: 14:09:20

80

70

60

50

40

30

20

10

0.15 .2 .5 1 2 5 10 20 30

Frequency (MHz)

Site : CO01-SZ

Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL

Project : (FC)431002 Mode : Mode 2

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBu∀	dB	dB	
1	0.17	38.25	-16.61	54.86	27.59	0.33	10.33	Average
2	0.17	50.05	-14.81	64.86	39.39	0.33	10.33	QP
3	0.21	34.91	-18.36	53.27	24.31	0.32	10.28	Average
4	0.21	45.31	-17.96	63.27	34.71	0.32	10.28	QP
5	0.24	29.89	-22.19	52.08	19.30	0.34	10.25	Average
6	0.24	41.89	-20.19	62.08	31.30	0.34	10.25	QP
7	0.31	28.66	-21.27	49.93	18.10	0.36	10.20	Average
8	0.31	37.56	-22.37	59.93	27.00	0.36	10.20	QP
9 *	0.45	41.26	-5.59	46.85	30.70	0.40	10.16	Average
10	0.45	49.26	-7.59	56.85	38.70	0.40	10.16	QP
11	0.48	34.36	-11.91	46.27	23.79	0.41	10.16	Average
12	0.48	42.36	-13.91	56.27	31.79	0.41	10.16	QP

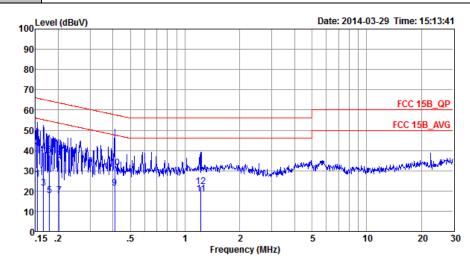
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Test Mode :	Mode 3	Temperature :	22~23℃			
Test Engineer :	Jack Tian	Relative Humidity :	41~42%			
Test Voltage :	120Vac / 60Hz	Phase :	Line			

Function Type: GSM850 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + SIM 1



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20140304 LINE

Project : (FC)431002 Mode : Mode 3

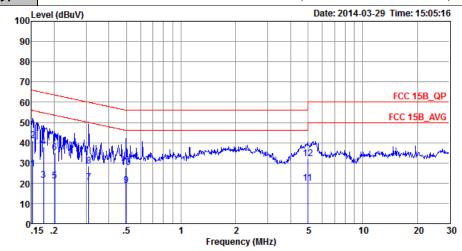
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
_								
	MHz	dBuV	dB	dBu∀	dBu₹	dB	dB	
1	0.15	25.77	-30.01	55.78	15.20	0.22	10.35	Average
2 *	0.15	41.67	-24.11	65.78	31.10	0.22	10.35	QP
3	0.17	21.26	-33.90	55.16	10.70	0.22	10.34	Average
4	0.17	39.16	-26.00	65.16	28.60	0.22	10.34	QP
5	0.18	17.54	-37.01	54.55	7.00	0.22	10.32	Average
6	0.18	37.64	-26.91	64.55	27.10	0.22	10.32	QP
7	0.20	17.71	-35.78	53.49	7.20	0.22	10.29	Average
8	0.20	35.01	-28.48	63.49	24.50	0.22	10.29	QP
9	0.41	21.25	-26.39	47.64	10.80	0.28	10.17	Average
10	0.41	31.35	-26.29	57.64	20.90	0.28	10.17	QP
11	1.22	18.61	-27.39	46.00	8.20	0.25	10.16	Average
12	1.22	22.01	-33.99	56.00	11.60	0.25	10.16	QP

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22~23℃ Test Mode: Mode 3 Temperature : 41~42% Test Engineer: Jack Tian Relative Humidity: 120Vac / 60Hz Test Voltage: Phase: Neutral

GSM850 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + SIM 1 **Function Type:**



: CO01-SZ

Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL Project : (FC)431002

Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.15	26.79	-29.08	55.87	16.10	0.33	10.36	Average
2	0.15	41.09	-24.78	65.87	30.40	0.33	10.36	QP
3	0.17	21.45	-33.27	54.72	10.81	0.32	10.32	Average
4	0.17	38.05	-26.67	64.72	27.41	0.32	10.32	QP
5	0.20	21.11	-32.43	53.54	10.50	0.32	10.29	Average
6	0.20	35.11	-28.43	63.54	24.50	0.32	10.29	QP
7	0.31	20.36	-29.61	49.97	9.80	0.36	10.20	Average
8	0.31	28.26	-31.71	59.97	17.70	0.36	10.20	QP
9	0.50	18.97	-27.08	46.05	8.40	0.41	10.16	Average
10	0.50	27.57	-28.48	56.05	17.00	0.41	10.16	QP
11	4.98	20.03	-25.97	46.00	9.30	0.49	10.24	Average
12 *	4.98	32.03	-23.97	56.00	21.30	0.49	10.24	QP

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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.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum 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 (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

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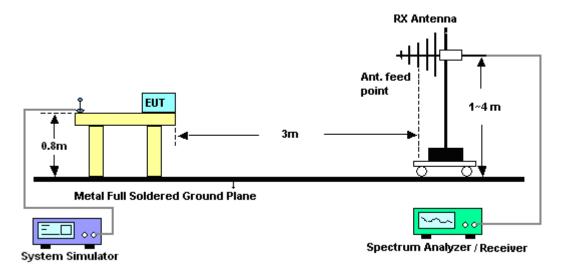
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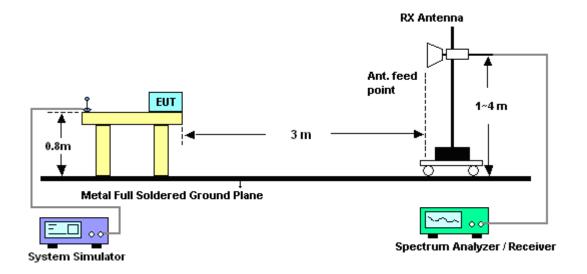
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission

							_			00	05°0		
Test Mode :		Mod					Temperature :				23~25°C		
Test Enginee	r :	Kaeı	r Huan	g		F	Relative Humidity:			: 48~	-52%		
Test Distance) :	3m				F	Polariz	ation	:	Hor	rizonta	al	
unction Typ	e :	GSN	/1850 Id	dle + B	luetoo	th Idle	+ USI	B Cab	le (Dat	a Link	with 1	Noteboo	k) + SIN
Remark :		#7 is	s syste	m sim	ulator	signal	which	can b	e ignor	ed.			
117	Level	(dBuV	dBuV/m) Date: 2014-03-21										
105.3													
93.6													
81.9		_											
70.2												FCC	CLASS-B 6dB
58.5												FCC CLAS	S-B (AVG) -6dB
46.8	<u>_</u>	_	8	9			10		11			12	-00B 13
35.1	1 5 1	67											
23.4	Ш												
11.7													
o	30	1000.		3000.		5000.		7000.		9000.		11000.	1300
Site Condit Projec Mode	t	:	03CH01- FCC CL/ (FC)4310 Mode 3	ASS-B 3 002	_	_		ZONTAL					
					Limit Line	Level			Preamp Factor	A/Pos	1/Pos	Remark	
		Freq	Level	Limit									
			Level dBuV/m		dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1 2		MHz 72.12	dBuV/m 29.53	dB -10.47	40.00	53.75	4.63	1.08	29.93			Peak Peak	
2 3 P	2	MHz 72.12 27.91 88.12	dBuV/m 29.53 38.43 39.41	-10.47 -7.57 -6.59	40.00 46.00 46.00	53.75 56.43 55.01	4.63 10.14 12.36	1.08 1.79 1.97	29.93 29.93 29.93			Peak Peak	
2 3 P	2 2 3	MHz 72.12 27.91 88.12 11.90	dBuV/m 29.53 38.43	-10.47 -7.57 -6.59 -2.52	40.00 46.00 46.00 46.00	53.75 56.43 55.01 58.26	4.63 10.14 12.36 13.10	1.08 1.79 1.97 2.05	29.93 29.93 29.93		 32	Peak	
2 3 P 4 Q 5	2 2 3 5 7	72.12 27.91 88.12 11.90 75.80 31.90	dBuV/m 29.53 38.43 39.41 43.48 36.57 31.38	-10.47 -7.57 -6.59 -2.52 -9.43 -14.62	40.00 46.00 46.00 46.00 46.00	53.75 56.43 55.01 58.26 45.86 38.78	4.63 10.14 12.36 13.10 17.92 19.50	1.08 1.79 1.97 2.05 2.71 3.03	29.93 29.93 29.93 29.93 29.92 29.93	108	32	Peak Peak QP Peak Peak	
2 3 P 4 Q 5 6 7	2 2 3 5 7	72.12 27.91 88.12 11.90 75.80 31.90 81.70	dBuV/m 29.53 38.43 39.41 43.48 36.57 31.38 32.50	dB -10.47 -7.57 -6.59 -2.52 -9.43 -14.62	40.00 46.00 46.00 46.00 46.00	53.75 56.43 55.01 58.26 45.86 38.78 38.59	4.63 10.14 12.36 13.10 17.92 19.50 20.56	1.08 1.79 1.97 2.05 2.71 3.03 3.29	29.93 29.93 29.93 29.93 29.92 29.93 29.94	108	32	Peak Peak QP Peak Peak Peak	
2 3 P 4 Q 5	2 3 5 7 8 23	72.12 27.91 88.12 11.90 75.80 31.90 81.70 92.00 88.00	29.53 38.43 39.41 43.48 36.57 31.38 32.50 44.44 40.12	dB -10.47 -7.57 -6.59 -2.52 -9.43 -14.62 -29.56 -33.88	40.00 46.00 46.00 46.00 46.00 74.00	53.75 56.43 55.01 58.26 45.86 38.78 38.59 63.59 57.80	4.63 10.14 12.36 13.10 17.92 19.50 20.56 31.98 33.04	1.08 1.79 1.97 2.05 2.71 3.03 3.29 5.62 6.57	29.93 29.93 29.93 29.93 29.92 29.93 29.94 56.75 57.29	108	32 50	Peak Peak QP Peak Peak	
2 3 P 4 Q 5 6 7 8 9	2 3 5 7 8 23 31 62	72.12 27.91 88.12 11.90 75.80 31.90 81.70 92.00 88.00 36.00	29.53 38.43 39.41 43.48 36.57 31.38 32.50 44.44 40.12 39.08	dB -10.47 -7.57 -6.59 -2.52 -9.43 -14.62 -29.56 -33.88 -34.92	40.00 46.00 46.00 46.00 46.00 74.00 74.00 74.00	53.75 56.43 55.01 58.26 45.86 38.78 38.59 63.59 57.80 51.80	4.63 10.14 12.36 13.10 17.92 19.50 20.56 31.98 33.04 34.00	1.08 1.79 1.97 2.05 2.71 3.03 3.29 5.62 6.57 9.52	29.93 29.93 29.93 29.93 29.92 29.93 29.94 56.75 57.29 56.24	108	32 50	Peak Peak QP Peak Peak Peak Peak Peak Peak Peak Pea	
2 3 P 4 Q 5 6 7 8	2 3 5 7 8 23 31 62 79	72.12 27.91 88.12 11.90 75.80 31.90 81.70 92.00 88.00 36.00 32.00	29.53 38.43 39.41 43.48 36.57 31.38 32.50 44.44 40.12	dB -10.47 -7.57 -6.59 -2.52 -9.43 -14.62 -29.56 -33.88 -34.92 -33.85	40.00 46.00 46.00 46.00 46.00 74.00 74.00 74.00 74.00	53.75 56.43 55.01 58.26 45.86 38.78 38.59 63.59 57.80 51.80 51.12	4.63 10.14 12.36 13.10 17.92 19.50 20.56 31.98 33.04 34.00 34.78	1.08 1.79 1.97 2.05 2.71 3.03 3.29 5.62 6.57 9.52 10.62	29.93 29.93 29.93 29.92 29.93 29.94 56.75 57.29 56.24 56.37	108	32	Peak Peak QP Peak Peak Peak Peak Peak	

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23~25°C Test Mode: Mode 3 Temperature: **Relative Humidity:** Test Engineer: Kaer Huang 48~52% Vertical Test Distance: 3m **Polarization:** GSM850 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + SIM 1 Function Type: Remark: #7 is system simulator signal which can be ignored. 117 Level (dBuV/m) Date: 2014-03-21 105.3 93.6 81.9 FCC CLASS-B 70.2 58.5 FCC CLASS-B (AVG) -6dE 46.8 10 11 35.1 23.4 11.7 0<mark>3</mark>0 1000. 3000. 9000. 11000. 13000 5000. Frequency (MHz) Site : 03CH01-SZ Condition : FCC CLASS-B 3m LF_ANT_131026 VERTICAL Project : (FC)431002 Mode Mode 3 ReadAntenna Cable Preamp A/Pos T/Pos Over Limit Remark Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB deg cm --- Peak 25.37 -14.63 34.44 -11.56 1 78.33 40.00 48.41 5.77 1.13 29.94 2 53.41 --- Peak 216.03 46.00 9.22 1.74 29.93 30.88 -15.12 --- Peak 288.12 46.00 46.48 12.36 1.97 29.93 40.26 -5.74 40.90 -5.10 4 311.90 46.00 55.04 13.10 2.05 29.93 Peak 5 468.00 46.00 51.42 16.95 2.45 29.92 120 230 Peak 33.83 -12.17 743.80 46.00 40.29 20.42 3.05 29.93 ------ Peak 881.70 --- Peak 20.56 3.29 36.10 42.19 29.94 2396.00 48.70 -25.30 30 Peak 74.00 67.85 31.98 5.62 56.75 150 3194.00 46.59 -27.41 74.00 64.27 33.04 6.57 57.29 ---Peak

10

11

12

6376.00

8500.00

10454.00

12940.00

39.52 -34.48

39.51 -34.49

41.48 -32.52

43.26 -30.74

74.00

74.00

74.00

74.00

52.30

48.38

48.74

46.41

34.00

35.80

36.73

38.68

9.69

11.04

12.90

14.34

56.47

55.71

56.89

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Peak

--- Peak

--- Peak

--- Peak



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
ESCIO Test Receiver	R&S	ESCI	100724	9kHz~3GHz	Mar. 28, 2014	Mar. 29, 2014	Mar. 27, 2015	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 28, 2014	Mar. 29, 2014	Mar. 27, 2015	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 28, 2014	Mar. 29, 2014	Mar. 27, 2015	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Dec. 17, 2013	Mar. 29, 2014	Dec. 16, 2014	Conduction (CO01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	Apr. 04, 2013	Mar. 21, 2014	Apr. 03, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Mar. 21, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Dec. 23, 2013	Mar. 21, 2014	Dec. 22, 2014	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Mar. 29, 2013	Mar. 21, 2014	Mar. 28, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 29, 2013	Mar. 21, 2014	Mar. 28, 2014	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Mar. 21, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Mar. 21, 2014	NCR	Radiation (03CH01-SZ)

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FCC Test Report

5. Uncertainty of Evaluation

<u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of	2.31
Confidence of 95% (U = 2Uc(y))	2.31

Report No.: FC431002

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

	<u> </u>
Measuring Uncertainty for a Level of	3.90
Confidence of 95% (U = 2Uc(y))	3.90

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