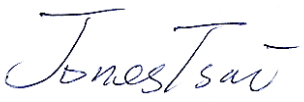
FCC Test Report

APPLICANT	:	BLU Products, Inc.
EQUIPMENT	:	Mobile phone
BRAND NAME	:	BLU
MODEL NAME	:	DIVA FLEX
FCC ID	:	YHLBLUDIVAFLEX
STANDARD	:	FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION	:	Certification

The product was received on Nov. 13, 2015 and testing was completed on Dec. 24, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2009 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Prepared by: Andy Yeh / Manager



Approved by: Jones Tsai / Manager

Testing Laboratory
2353

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

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC5N1301	Rev. 01	Initial issue of report	Jan. 07, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	ICES003 Section 6.1	AC Conducted Emission	< 15.107 limits < ICES003 6.1 limits	PASS	Under limit 3.01 dB at 0.160 MHz
3.2	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 2.66 dB at 600.300 MHz for Quasi-Peak

1. General Description

1.1. Applicant

BLU Products, Inc.
10814 NW 33rd St # 100 Doral, FL 33172

1.2. Manufacturer

BLU Products, Inc.
10814 NW 33rd St # 100 Doral, FL 33172

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile phone
Brand Name	BLU
Model Name	DIVA FLEX
FCC ID	YHLBLUDIVAFLEX
EUT supports Radios application	GSM/Bluetooth v3.0+EDR
IMEI Code	Conduction:351771053537776/351771053537784 Radiation: 351771053537750/351771053537768
HW Version	S1711-MB-V1.2
SW Version	BLU_T370_V11_GENERIC_ANATEL
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 subjective to this standard

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
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Antenna Type	WWAN : IFA Antenna Bluetooth : Monopole Antenna
Type of Modulation	GSM: GMSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : π /4-DQPSK Bluetooth (3Mbps) : 8-DPSK

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.
Test Site Location	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595
Test Site No.	**Sporton 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.	**Sporton Site No.**	**FCC/IC Registration No.**
	03CH02-SZ	566869/4086F

1.7. Applicable Standards

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

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

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

2. Test Configuration of Equipment Under Test

2.1. Test Mode

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

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

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

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

Abbreviations:

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

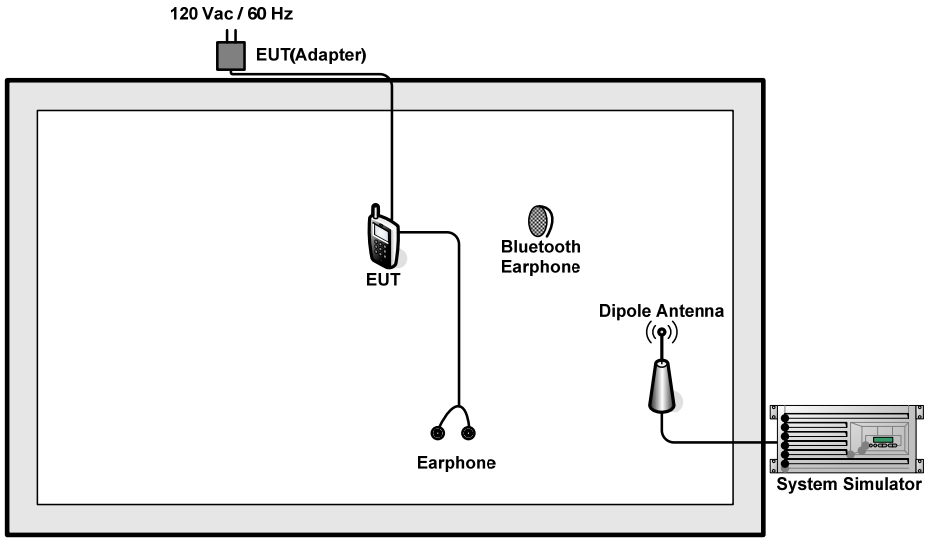
Remark: For signal above 1GHz, the worst case was test item 1.

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + Adapter + Earphone + Camera + SIM1 + Battery<Fig.1> Mode 2: GSM850 Idle + Bluetooth Idle + Adapter + Earphone + MPEG4 + SIM2 + Battery<Fig.1> Mode 3: GSM1900 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + Earphone + SIM1 + Battery<Fig.2>
Radiated Emissions < 1GHz	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + Adapter + Earphone + Camera + SIM1 + Battery<Fig.1> Mode 2: GSM850 Idle + Bluetooth Idle + Adapter + Earphone + MPEG4 + SIM2 + Battery<Fig.1> Mode 3: GSM1900 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + Earphone + SIM1 + Battery<Fig.2>
Radiated Emissions ≥ 1GHz	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + Adapter + Earphone + Camera + SIM1 + Battery<Fig.1> Mode 2: GSM1900 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + Earphone + SIM1 + Battery<Fig.2>

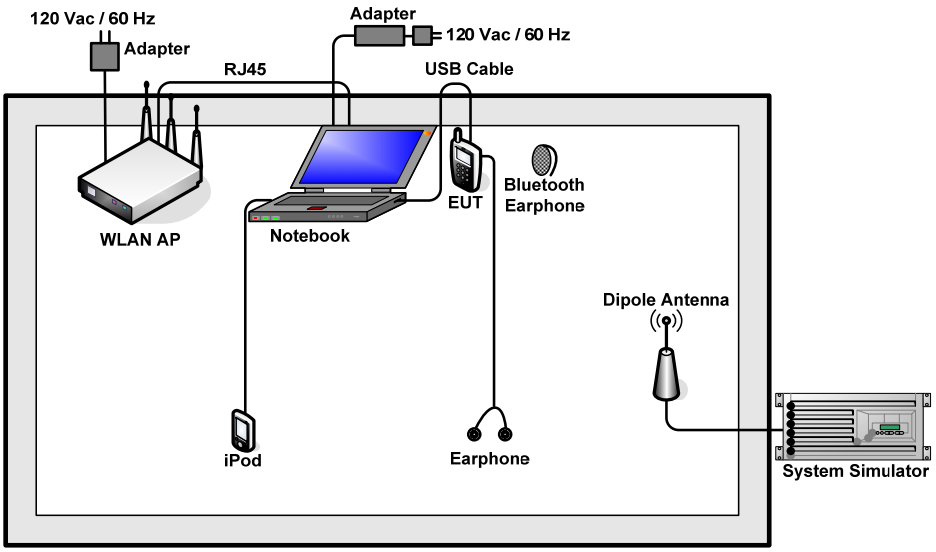
Remark:

1. The worst case of AC is mode 1; and the USB Link mode of AC is mode 3, only the test data of this mode was reported.
2. The worst case of RE < 1G is mode 1; and the USB Link mode of RE is mode 3,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	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
4.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
5.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
6.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Unshielded, 1.2 m	N/A
7.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0 m	N/A
8.	iPod Earphone	Apple	N/A	N/A	Shielded, 1.6 m	N/A
9.	USB Cable	Motorola	SKN6378A	FCC DoC	Unshielded, 1.8 m	N/A
10.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m with Core
11.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m

2.4. EUT Operation Test Setup

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, 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.

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

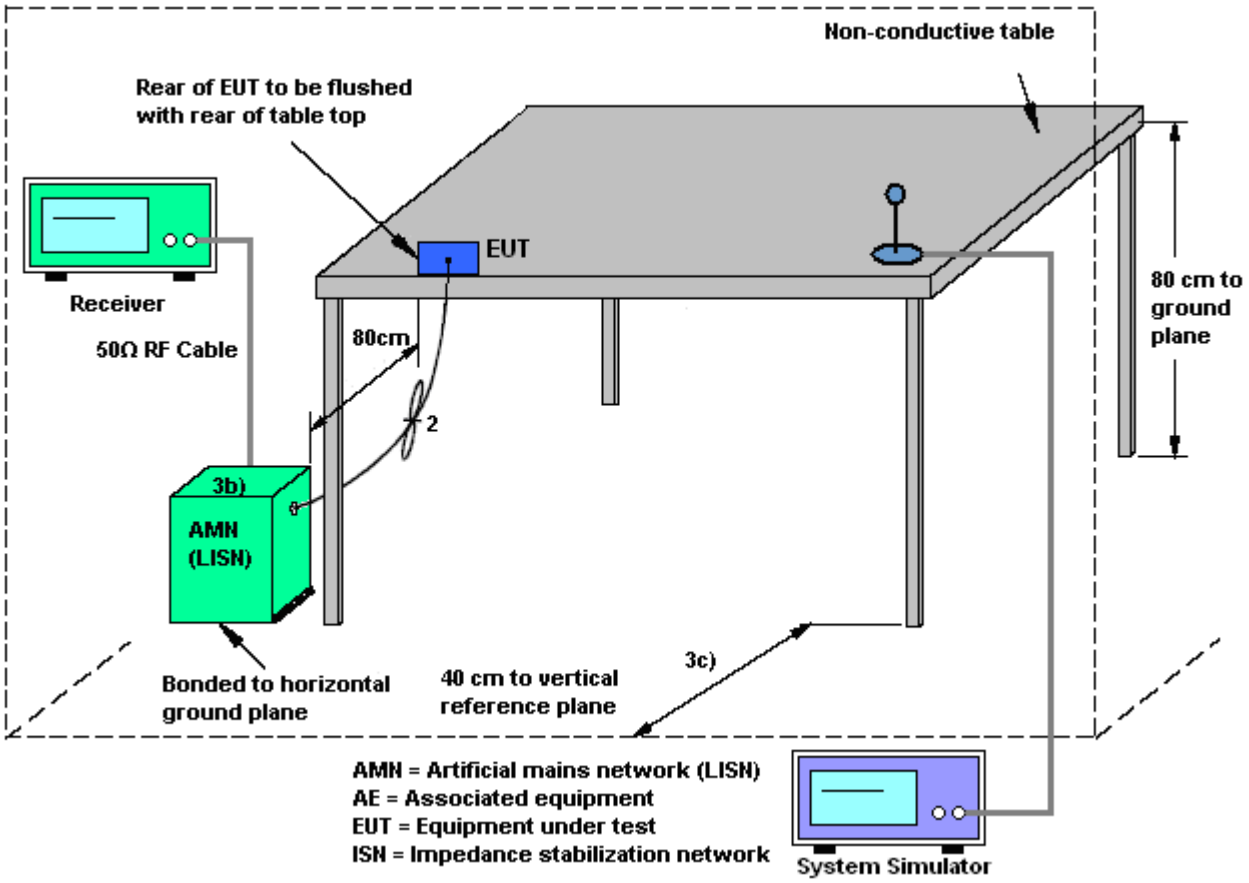
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

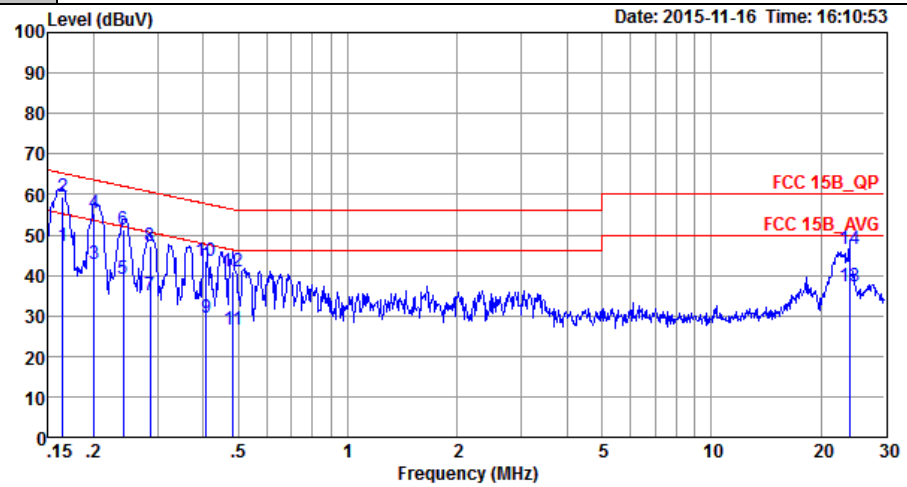
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

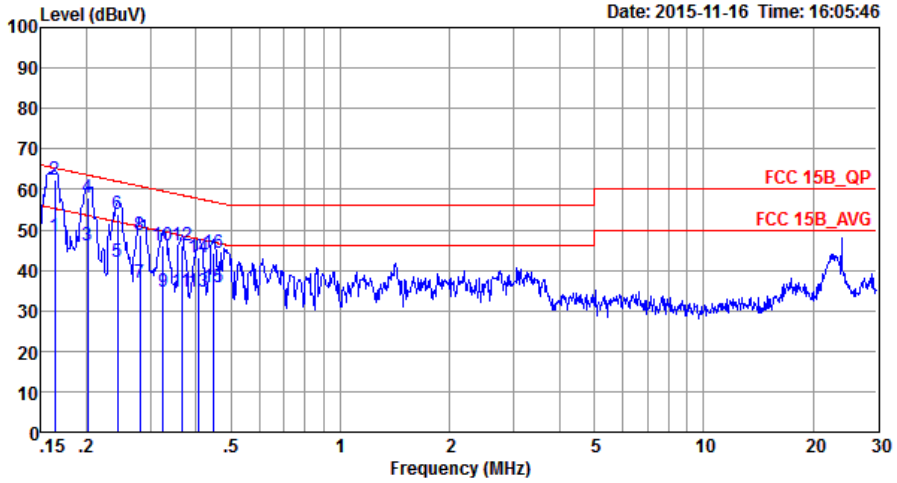
Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Idle + Adapter + Earphone + Camera + SIM1 + Battery		



Site : CO01-SZ
Condition: FCC 15B_QP LISN_L_20150304 LINE
Project : (FC)5N1301
Mode : Mode 1
IMEI : 351771053537776/351771053537784

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.16	47.40	-7.85	55.25	36.60	0.46	10.34	Average
2	*	0.16	59.40	-5.85	65.25	48.60	0.46	10.34	QP
3		0.20	42.91	-10.67	53.58	32.10	0.52	10.29	Average
4		0.20	55.31	-8.27	63.58	44.50	0.52	10.29	QP
5		0.24	39.09	-12.95	52.04	28.30	0.54	10.25	Average
6		0.24	51.39	-10.65	62.04	40.60	0.54	10.25	QP
7		0.29	34.98	-15.65	50.63	24.21	0.56	10.21	Average
8		0.29	47.28	-13.35	60.63	36.51	0.56	10.21	QP
9		0.41	29.62	-18.06	47.68	18.90	0.55	10.17	Average
10		0.41	43.72	-13.96	57.68	33.00	0.55	10.17	QP
11		0.48	26.71	-19.56	46.27	15.90	0.65	10.16	Average
12		0.48	40.91	-15.36	56.27	30.10	0.65	10.16	QP
13		24.00	37.09	-12.91	50.00	25.71	0.82	10.56	Average
14		24.00	46.49	-13.51	60.00	35.11	0.82	10.56	QP

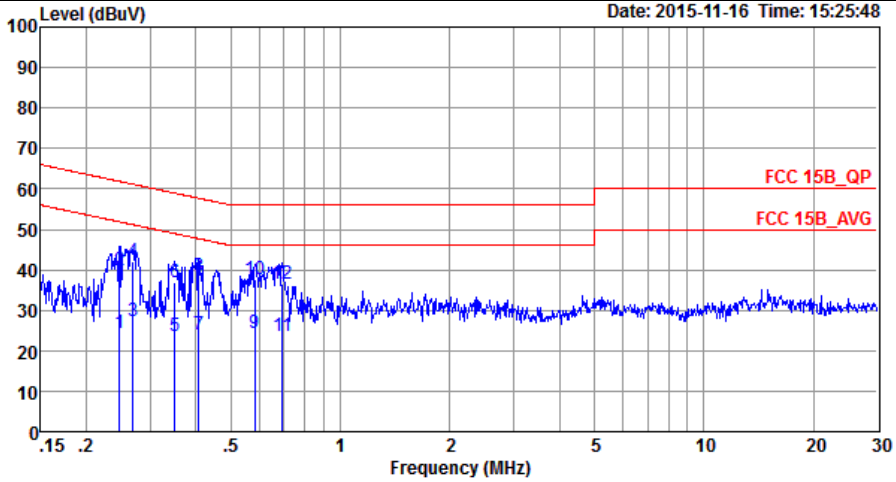
Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Idle + Adapter + Earphone + Camera + SIM1 + Battery		



Site : CO01-SZ
Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL
Project : (FC)5N1301
Mode : Mode 1
IMEI : 351771053537776/351771053537784

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.16	48.41	-6.89	55.30	37.60	0.47	10.34	Average
2	*	0.16	62.29	-3.01	65.30	51.48	0.47	10.34	QP
3		0.20	46.30	-7.24	53.54	35.50	0.51	10.29	Average
4		0.20	58.00	-5.54	63.54	47.20	0.51	10.29	QP
5		0.24	42.20	-9.80	52.00	31.40	0.55	10.25	Average
6		0.24	53.70	-8.30	62.00	42.90	0.55	10.25	QP
7		0.28	36.79	-14.02	50.81	25.99	0.58	10.22	Average
8		0.28	48.69	-12.12	60.81	37.89	0.58	10.22	QP
9		0.33	34.67	-14.90	49.57	23.90	0.58	10.19	Average
10		0.33	45.97	-13.60	59.57	35.20	0.58	10.19	QP
11		0.37	34.74	-13.87	48.61	24.00	0.56	10.18	Average
12		0.37	45.94	-12.67	58.61	35.20	0.56	10.18	QP
13		0.41	34.82	-12.86	47.68	24.10	0.55	10.17	Average
14		0.41	43.32	-14.36	57.68	32.60	0.55	10.17	QP
15		0.45	35.74	-11.15	46.89	25.00	0.58	10.16	Average
16		0.45	44.14	-12.75	56.89	33.40	0.58	10.16	QP

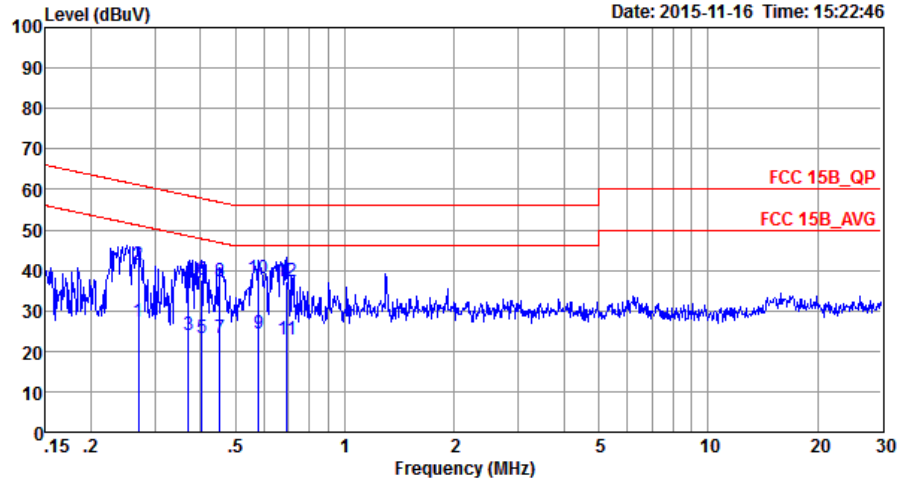
Test Mode :	Mode 3	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM1900 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + Earphone + SIM1 + Battery		



Site : CO01-SZ
Condition: FCC 15B_QP LISN_L_20150304 LINE
Project : (FC)5N1301
Mode : Mode 3
IMEI : 351771053537776/351771053537784

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.25	24.29	-27.57	51.86	13.49	0.55	10.25	Average
2		0.25	39.69	-22.17	61.86	28.89	0.55	10.25	QP
3		0.27	27.18	-23.98	51.16	16.39	0.56	10.23	Average
4		0.27	41.98	-19.18	61.16	31.19	0.56	10.23	QP
5		0.35	23.64	-25.32	48.96	12.91	0.55	10.18	Average
6		0.35	37.04	-21.92	58.96	26.31	0.55	10.18	QP
7		0.41	24.12	-23.56	47.68	13.40	0.55	10.17	Average
8		0.41	38.52	-19.16	57.68	27.80	0.55	10.17	QP
9		0.58	24.36	-21.64	46.00	13.60	0.61	10.15	Average
10	*	0.58	37.66	-18.34	56.00	26.90	0.61	10.15	QP
11		0.69	23.49	-22.51	46.00	12.80	0.54	10.15	Average
12		0.69	36.39	-19.61	56.00	25.70	0.54	10.15	QP

Test Mode :	Mode 3	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + Earphone + SIM1 + Battery		



Site : CO01-SZ
Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL
Project : (FC)5N1301
Mode : Mode 3
IMEI : 351771053537776/351771053537784

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.27	27.29	-23.83	51.12	16.50	0.57	10.22	Average
2		0.27	41.49	-19.63	61.12	30.70	0.57	10.22	QP
3		0.37	24.14	-24.33	48.47	13.40	0.56	10.18	Average
4		0.37	37.04	-21.43	58.47	26.30	0.56	10.18	QP
5		0.40	23.42	-24.35	47.77	12.70	0.55	10.17	Average
6		0.40	37.82	-19.95	57.77	27.10	0.55	10.17	QP
7		0.45	23.14	-23.71	46.85	12.40	0.58	10.16	Average
8		0.45	37.24	-19.61	56.85	26.50	0.58	10.16	QP
9		0.58	24.24	-21.76	46.00	13.51	0.58	10.15	Average
10	*	0.58	38.14	-17.86	56.00	27.41	0.58	10.15	QP
11		0.69	23.00	-23.00	46.00	12.30	0.55	10.15	Average
12		0.69	37.40	-18.60	56.00	26.70	0.55	10.15	QP

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

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

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

3.2.2. Measuring Instruments

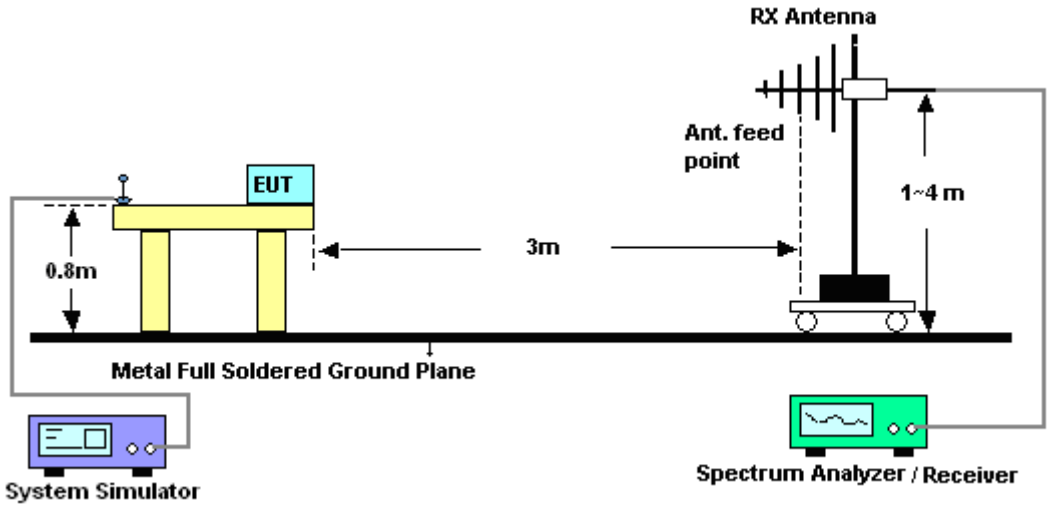
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

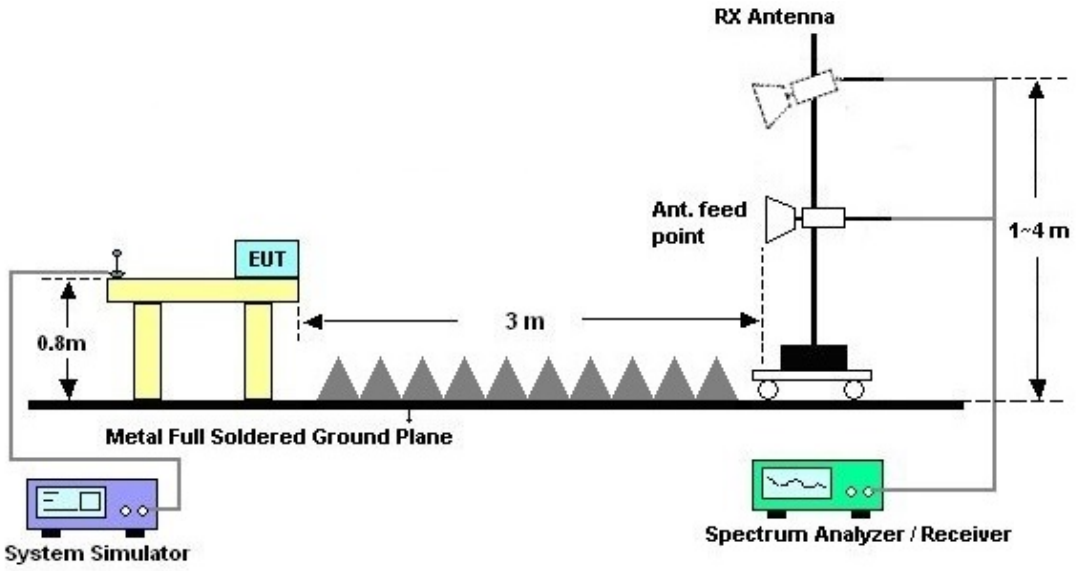
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

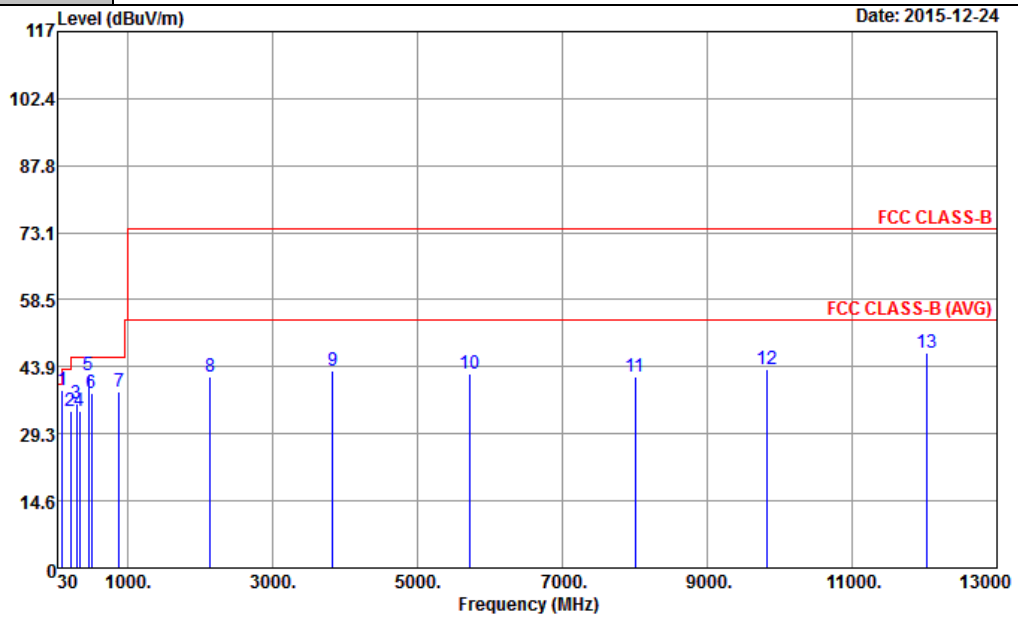


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

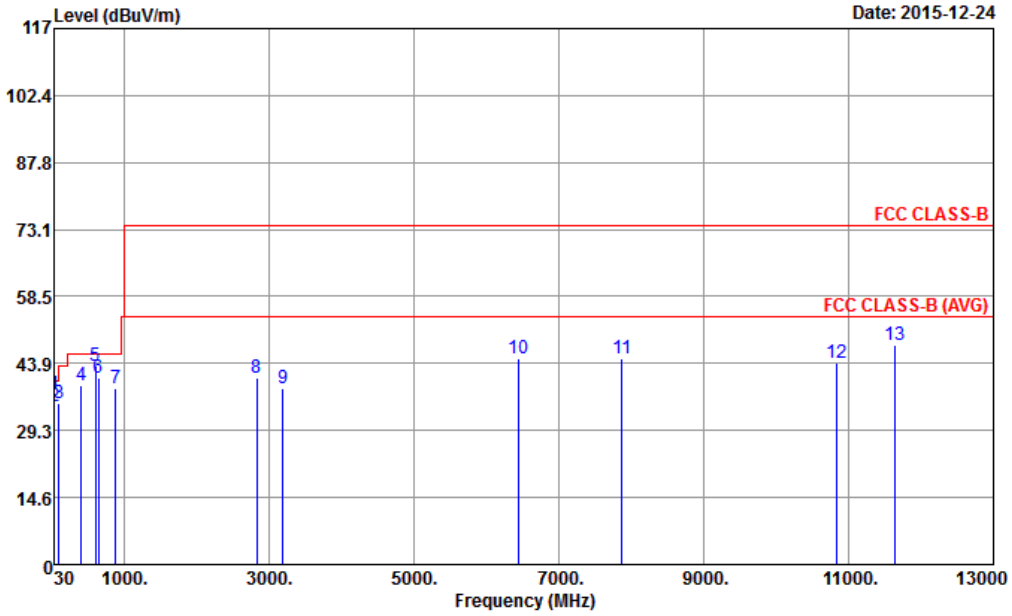
Test Mode :	Mode 1	Temperature :	23~25℃
Test Engineer :	Kear Huang	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	GSM850 Idle + Bluetooth Idle + Adapter + Earphone + Camera + SIM1 + Battery		
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH02-SZ
Condition : FCC CLASS-B 3m LF_ANT(23188)_151017 HORIZONTAL
Project : (FC) 5N1301
Mode : Mode 1
IMEI : 351771053537750/351771053537768

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	95.88	38.82	-4.68	43.50	52.36	11.22	1.04	25.80	---	---	Peak
2	206.85	34.17	-9.33	43.50	46.20	11.71	1.50	25.24	---	---	Peak
3	288.12	35.87	-10.13	46.00	45.52	13.70	1.71	25.06	---	---	Peak
4	335.70	34.38	-11.62	46.00	43.30	14.57	1.83	25.32	---	---	Peak
5	456.10	42.19	-3.81	46.00	48.57	17.63	2.10	26.11	148	90	QP
6	503.70	38.15	-7.85	46.00	42.91	19.41	2.17	26.34	---	---	Peak
7	881.70	38.56			39.73	21.77	2.99	25.93	---	---	Peak
8	2134.00	41.77	-32.23	74.00	63.34	32.34	4.77	58.68	---	---	Peak
9	3830.00	43.04	-30.96	74.00	62.25	33.73	6.58	59.52	---	---	Peak
10	5728.00	42.21	-31.79	74.00	57.52	35.41	8.19	58.91	---	---	Peak
11	8006.00	41.63	-32.37	74.00	51.91	36.50	11.09	57.87	---	---	Peak
12	9818.00	43.29	-30.71	74.00	52.51	37.89	11.76	58.87	---	---	Peak
13	12036.00	46.78	-27.22	74.00	54.92	39.49	12.65	60.28	158	90	Peak

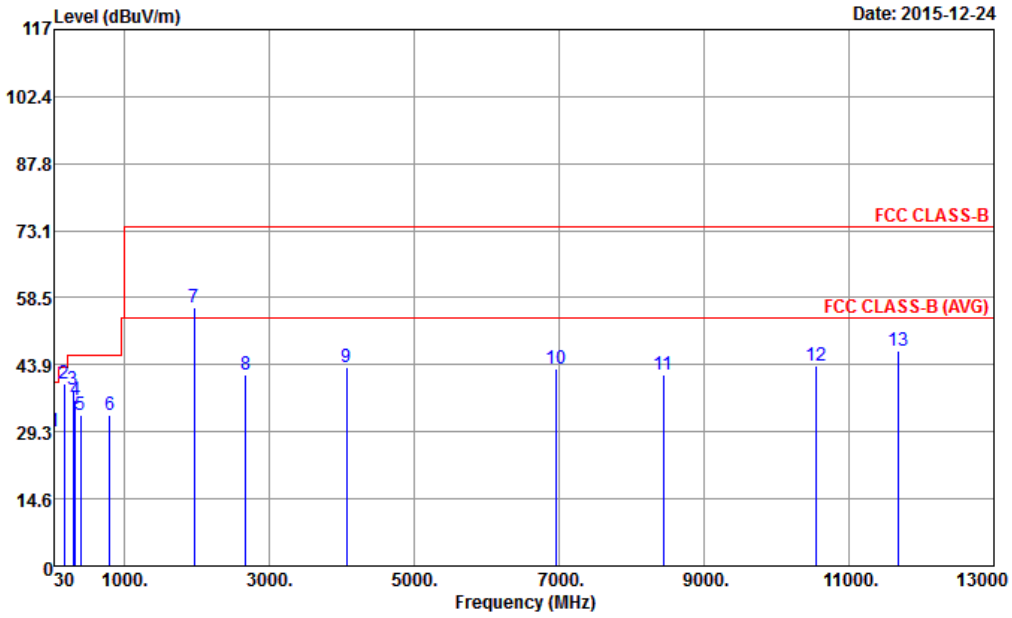
Test Mode :	Mode 1	Temperature :	23~25°C
Test Engineer :	Kear Huang	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Vertical
Function Type :	GSM850 Idle + Bluetooth Idle + Adapter + Earphone + Camera + SIM1 + Battery		
Remark :	#7 is system simulator signal which can be ignored.		



Condition : FCC CLASS-B 3m LF_ANT(23188)_151017 VERTICAL
Project : (FC) 5N1301
Mode : Mode 1
IMEI : 351771053537750/351771053537768

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.89	37.21	-2.79	40.00	37.98	24.58	0.70	26.05	145	80	QP
2	37.02	34.57	-5.43	40.00	37.87	22.03	0.70	26.03	178	90	QP
3	96.15	35.08	-8.42	43.50	48.62	11.22	1.04	25.80	---	---	Peak
4	407.80	39.13	-6.87	46.00	47.20	15.71	2.07	25.85	---	---	Peak
5	600.30	43.34	-2.66	46.00	47.56	19.70	2.52	26.44	100	20	QP
6	647.90	40.76	-5.24	46.00	44.57	19.99	2.61	26.41	---	---	Peak
7	881.70	38.55			39.72	21.77	2.99	25.93	---	---	Peak
8	2830.00	40.89	-33.11	74.00	61.42	32.97	5.60	59.10	---	---	Peak
9	3188.00	38.46	-35.54	74.00	58.66	33.21	5.98	59.39	---	---	Peak
10	6446.00	44.91	-29.09	74.00	58.46	36.23	8.72	58.50	---	---	Peak
11	7874.00	45.02	-28.98	74.00	56.23	36.45	10.82	58.48	---	---	Peak
12	10838.00	44.06	-29.94	74.00	52.26	38.71	12.49	59.40	---	---	Peak
13	11630.00	47.91	-26.09	74.00	55.92	39.27	12.60	59.88	180	90	Peak

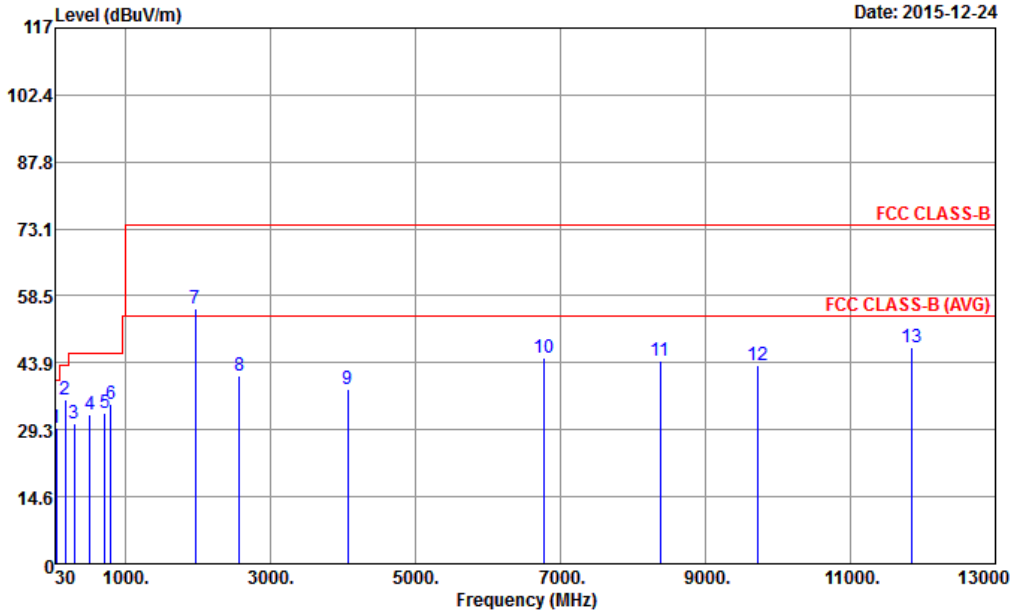
Test Mode :	Mode 3	**Temperature :**	23~25°C
Test Engineer :	Kear Huang	**Relative Humidity :**	48~52%
Test Distance :	3m	**Polarization :**	Horizontal
Function Type :	GSM1900 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + Earphone + SIM1 + Battery		
Remark :	#7 is system simulator signal which can be ignored.		



Condition : FCC CLASS-B 3m LF_ANT(23188)_151017 HORIZONTAL
Project : (FC) 5N1301
Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	29.26	-10.74	40.00	29.03	25.60	0.70	26.07	---	---	Peak
2	167.97	39.84	-3.66	43.50	51.95	11.93	1.38	25.42	125	80	Peak
3	294.06	38.32	-7.68	46.00	47.76	13.90	1.71	25.05	---	---	Peak
4	318.90	36.08	-9.92	46.00	45.09	14.35	1.83	25.19	---	---	Peak
5	399.40	32.82	-13.18	46.00	41.20	15.40	2.03	25.81	---	---	Peak
6	796.30	32.89	-13.11	46.00	33.78	22.41	2.88	26.18	---	---	Peak
7	1960.00	56.43			78.76	31.74	4.57	58.64	---	---	Peak
8	2674.00	41.86	-32.14	74.00	62.58	32.83	5.43	58.98	---	---	Peak
9	4062.00	43.37	-30.63	74.00	62.66	33.94	6.81	60.04	---	---	Peak
10	6964.00	43.03	-30.97	74.00	55.01	36.11	9.24	57.33	---	---	Peak
11	8440.00	41.81	-32.19	74.00	51.93	36.23	11.06	57.41	---	---	Peak
12	10536.00	43.66	-30.34	74.00	51.90	38.52	12.32	59.08	---	---	Peak
13	11674.00	46.99	-27.01	74.00	55.02	39.30	12.60	59.93	158	90	Peak

Test Mode :	Mode 3	**Temperature :**	23~25℃
Test Engineer :	Kear Huang	**Relative Humidity :**	48~52%
Test Distance :	3m	**Polarization :**	Vertical
Function Type :	GSM1900 Idle + Bluetooth Idle + USB Cable (Data Link with Notebook) + Earphone + SIM1 + Battery		
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH02-SZ
Condition : FCC CLASS-B 3m LF_ANT(23188)_151017 VERTICAL
Project : (FC) 5N1301
Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	42.15	29.67	-10.33	40.00	40.72	14.25	0.70	26.00	---	---	Peak
2	167.97	35.84	-7.66	43.50	47.95	11.93	1.38	25.42	100	0	Peak
3	287.85	30.71	-15.29	46.00	40.36	13.70	1.71	25.06	---	---	Peak
4	509.30	32.69	-13.31	46.00	37.44	19.43	2.17	26.35	---	---	Peak
5	715.10	32.95	-13.05	46.00	35.96	20.62	2.71	26.34	---	---	Peak
6	799.80	34.96	-11.04	46.00	35.75	22.50	2.88	26.17	---	---	Peak
7	1960.00	55.57			77.90	31.74	4.57	58.64	---	---	Peak
8	2570.00	41.16	-32.84	74.00	61.91	32.75	5.32	58.82	---	---	Peak
9	4068.00	38.05	-35.95	74.00	57.34	33.94	6.81	60.04	---	---	Peak
10	6770.00	45.03	-28.97	74.00	57.71	36.20	9.05	57.93	---	---	Peak
11	8378.00	44.43	-29.57	74.00	54.57	36.27	11.07	57.48	---	---	Peak
12	9720.00	43.48	-30.52	74.00	52.97	37.77	11.60	58.86	---	---	Peak
13	11850.00	47.16	-26.84	74.00	55.24	39.41	12.61	60.10	160	120	Peak

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz;Max 30dBm	Oct. 20, 2015	Dec. 24, 2015	Oct. 19, 2016	Radiation (03CH02-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Oct. 20, 2015	Dec. 24, 2015	Oct. 19, 2016	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	May 06, 2015	Dec. 24, 2015	May 05, 2016	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 20, 2015	Dec. 24, 2015	Jan. 19, 2016	Radiation (03CH02-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Dec. 24, 2015	Jan. 27, 2015	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 20, 2015	Dec. 24, 2015	Oct. 19, 2016	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Dec. 24, 2015	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Dec. 24, 2015	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Dec. 24, 2015	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Nov. 16, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Nov. 16, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Nov. 16, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Aug. 07, 2015	Nov. 16, 2015	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20, 2015	Nov. 16, 2015	Oct. 19, 2016	Conduction (CO01-SZ)

NCR: No Calibration Required

5. Uncertainty of Evaluation

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

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

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

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