FCC Test Report

APPLICANT : Corporativo Lanix S.A. de C.V.

EQUIPMENT: Mobile phone

BRAND NAME : LANIX

MODEL NAME : Ilium S520
MARKETING NAME : Ilium S520
FCC ID : ZC4S520

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Jun. 28, 2014 and testing was completed on Jul. 21, 2014. 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 C63.4-2003 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.

Reviewed by: Louis Wu / Manager

Louis Wu

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

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC462803	Rev. 01	Initial issue of report	Aug.01, 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
3.2	15 100	Dadiated Emission	< 15 100 limita	PASS	2.44 dB at
3.2	15.109	15.109 Radiated Emission	< 15.109 limits	PASS	199.830 MHz
					for Quasi-Peak

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1. General Description

1.1. Applicant

Corporativo Lanix S.A. de C.V.

Carretera Internacional Hermosillo-Nogales Km 8.5, Hermosillo Sonora, Mexico

1.2. Manufacturer

Tinno Mobile Technology Corp.

4/F, H-3 Building, OCT Eastern industrial Park, No.1 XiangShan East Road, Nan Shan District, Shenzhen, P.R. China

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1.3. Product Feature of Equipment Under Test

	Product Feature				
Equipment	Mobile phone				
Brand Name	LANIX				
Model Name	Ilium S520				
Marketing Name	Ilium S520				
FCC ID	ZC4S520				
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only) WLAN 2.4GHz 802.11b/g/n HT20/HT40 Bluetooth v3.0 + EDR/ Bluetooth v4.0 LE				
HW Version	V1.0				
SW Version	Ilium S520_TELCEL_SW_01_V03				
EUT Stage	Identical Prototype				

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 subjective to this standard

Product Specifi	ication subjective to this standard
Tx Frequency Rx 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 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
Antenna Type	GPS: 1.57542 GHz WWAN: IFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Downlink Only) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM Bluetooth LE: GFSK Bluetooth (1Mbps): GFSK Bluetooth (2Mbps): \pi /4-DQPSK Bluetooth (3Mbps): 8-DPSK GPS: BPSK

1.5. Modification of EUT

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

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1.6. Test Location

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				
Test Site No.	Sporton	Site No.	FCC Registration No.		
iest site NO.	CO01-SZ	03CH01-SZ	831040		

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 C63.4-2003

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	ЕМІ	EMI
		AC	RE<1G	RE≥1G
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	Note 1
2.	Data application transferred mode			\square
	(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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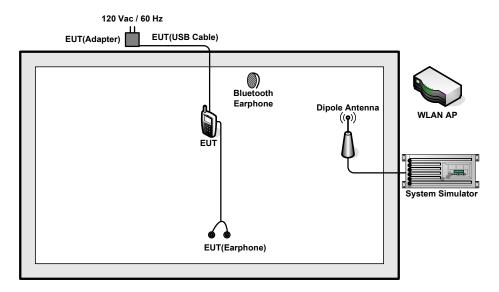
Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) +WLAN Idle +Earphone + Camera <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) +WLAN Idle +Earphone + MPEG4 <fig.1></fig.1>
		Mode 3: WCDMA850 Idle + Bluetooth Idle + USB Cable (data link with Notebook) +WLAN Idle +Earphone + GPS RX <fig.2></fig.2>
		Mode 1: GSM850 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) +WLAN Idle +Earphone + Camera <fig.1></fig.1>
Radiated Emissions < 1GHz	1//	Mode 2: GSM1900 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) +WLAN Idle +Earphone + MPEG4 <fig.1></fig.1>
		Mode 3: WCDMA850 Idle + Bluetooth Idle + USB Cable (data link with Notebook) +WLAN Idle +Earphone + GPS RX <fig.2></fig.2>
Radiated Emissions ≥ 1GHz	2	Mode 1: WCDMA850 Idle + Bluetooth Idle + USB Cable (data link with Notebook) +WLAN Idle +Earphone + GPS RX <fig.2></fig.2>

Remark:

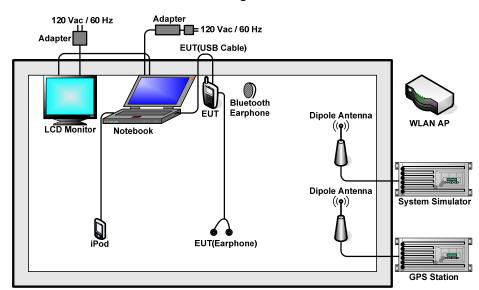
- 1. The worst case of AC is mode 1; and the USB Link mode of AC is mode 3, only the test data of this mode was reported.
- 2. The worst case of RE < 1G is mode 3; only the test data of this mode was reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook

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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.	Base Station	Agilent	8960	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH108	PYAHS-107W	N/A	N/A
5.	Notebook	Notebook DELL '		FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	GPS Station	Adivic	MP9000	N/A	N/A	Unshielded, 1.8 m
7.	LCD Monitor	DELL	IN1940MWb	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
8.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
9.	Ipod nano 8G	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2 m	N/A

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2.4. EUT Operation Test Setup

The EUT was in GSM and 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 Laptop and EUT via USB cable.
- 2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
- 3. Execute "Video Media Player" to play MPEG4 files.
- 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.

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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.

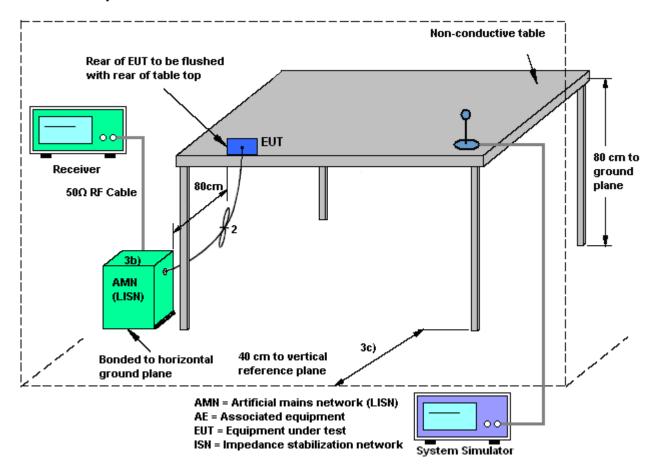
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

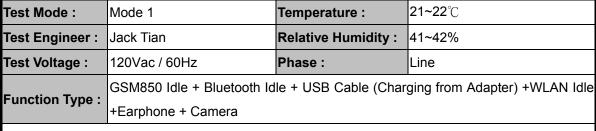
- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other 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.

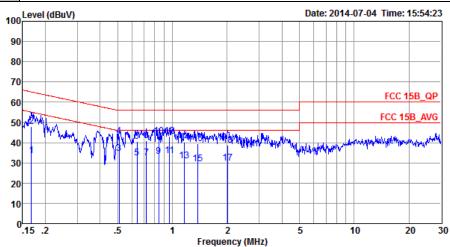
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission





Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20140304 LINE

Project : (FC)462803 Mode : Mode 1 IMEI : N/A

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.17		-21.53	55.08	23.00			Average
2	0.17	47.95	-17.13	65.08	37.40	0.22	10.33	QP
3 *	0.51	34.55	-11.45	46.00	24.10	0.29	10.16	Average
4	0.51	43.25	-12.75	56.00	32.80	0.29	10.16	QP
5	0.64	32.46	-13.54	46.00	22.10	0.21	10.15	Average
6	0.64	40.66	-15.34	56.00	30.30	0.21	10.15	QP
7	0.72	32.54	-13.46	46.00	22.20	0.19	10.15	Average
8	0.72	41.04	-14.96	56.00	30.70	0.19	10.15	QP
9	0.84	33.37	-12.63	46.00	23.00	0.22	10.15	Average
10	0.84	43.17	-12.83	56.00	32.80	0.22	10.15	QP
11	0.96	33.70	-12.30	46.00	23.30	0.25	10.15	Average
12	0.96	43.00	-13.00	56.00	32.60	0.25	10.15	QP
13	1.16	31.11	-14.89	46.00	20.70	0.25	10.16	Average
14	1.16	40.21	-15.79	56.00	29.80	0.25	10.16	QP
15	1.38	29.41	-16.59	46.00	19.00	0.24	10.17	Average
16	1.38	39.61	-16.39	56.00	29.20	0.24	10.17	QP
17	2.01	30.01	-15.99	46.00	19.60	0.22	10.19	Average
18	2.01	38 91	-17.09	56.00	28.50	0.22	10.19	OP

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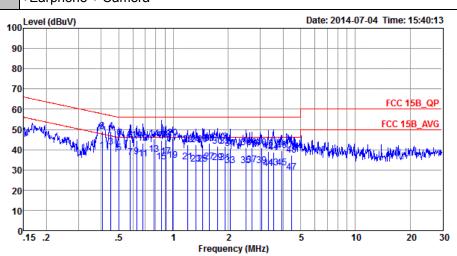


 Test Mode :
 Mode 1
 Temperature :
 21~22°C

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

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Neutral

 Function Type :
 GSM850 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) +WLAN Idle +Earphone + Camera



Site : CO01-SZ

Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL

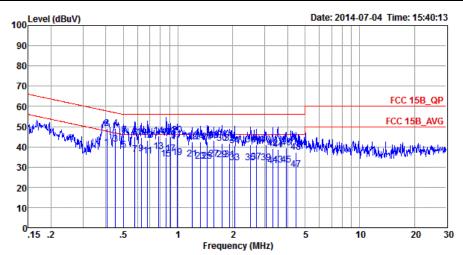
Project : (FC)462803 Mode : Mode 1 IMEI : N/A

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
_								_
1	0.41		-8.17					Average
2	0.41		-8.67	57.73				
3 *	0.45			46.85				Average
4	0.45		-7.79	56.85	38.50			-
5	0.50	38.36	-7.64	46.00	27.79	0.41	10.16	Average
6	0.50	45.86	-10.14	56.00	35.29	0.41	10.16	QP
7	0.58	36.19	-9.81	46.00	25.70	0.34	10.15	Average
8	0.58	44.99	-11.01	56.00	34.50	0.34	10.15	QP
9	0.63	36.65	-9.35	46.00	26.20	0.30	10.15	Average
10	0.63	44.55	-11.45	56.00	34.10	0.30	10.15	QP
11	0.68	35.32	-10.68	46.00	24.90	0.27	10.15	Average
12	0.68	43.22	-12.78	56.00	32.80	0.27	10.15	QP
13	0.78	37.73	-8.27	46.00	27.30	0.28	10.15	Average
14	0.78	45.53	-10.47	56.00	35.10	0.28	10.15	QP
15	0.86	33.85	-12.15	46.00	23.40	0.30	10.15	Average
16	0.86	44.65	-11.35	56.00	34.20	0.30	10.15	QP
17	0.91	36.56	-9.44	46.00	26.10	0.31	10.15	Average
18	0.91	44.96	-11.04	56.00	34.50	0.31	10.15	OP
19	0.99	34.78	-11.22	46.00	24.30	0.33	10.15	Average
20	0.99	45.58	-10.42	56.00	35.10			
21	1.20		-12.20	46.00				Average
22	1.20		-13.40	56.00				
23	1.33		-13.29	46.00				Average
24	1.33		-13.39	56.00	32.09		10.17	_
								~

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Test Mode :	Mode 1	Temperature :	21~22℃				
Test Engineer :	Jack Tian	Relative Humidity :	41~42%				
Test Voltage :	120Vac / 60Hz	Phase :	Neutral				
Eurotion Type	GSM850 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) +WLAN Idle						
Function Type :	+Earphone + Camera						



Site : CO01-SZ

Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL Project : (FC) 462803

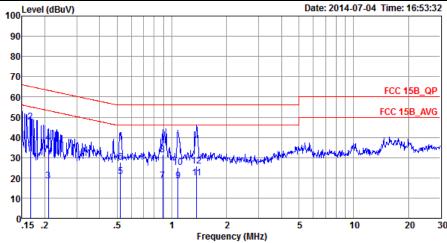
Project : (FC)462803 Mode : Mode 1 IMEI : N/A

				Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss R	emark
	MHz -		dB	dBuV	dBu∀	dB		
		4241		aba.	424			
25	1.45	32.92	-13.08	46.00	22.4	0 0.35	10.17	Average
26	1.45	42.32	-13.68			0 0.35		_
27	1.58	34.03	-11.97	46.00	23.4	9 0.36	10.18	Average
28	1.58	43.03	-12.97	56.00	32.4	9 0.36	10.18	QP
29	1.74	33.54	-12.46	46.00	23.0	0 0.36	10.18	Average
30	1.74	41.84	-14.16	56.00	31.3	0 0.36	10.18	QP
31	1.92	33.45	-12.55	46.00	22.8	9 0.37	10.19	Average
32	1.92	41.75	-14.25	56.00	31.1	9 0.37	10.19	QP
33	2.04	32.26	-13.74	46.00	21.7	0 0.37	10.19	Average
34	2.04	40.46	-15.54	56.00	29.9	0 0.37	10.19	QP
35	2.51	32.20	-13.80	46.00	21.6	0 0.40	10.20	Average
36	2.51	40.90	-15.10	56.00	30.3	0 0.40	10.20	QP
37	2.71	32.41	-13.59	46.00	21.7	9 0.41	10.21	Average
38	2.71	40.81	-15.19	56.00	30.1	9 0.41	10.21	QP
39	3.04	32.04	-13.96	46.00	21.4	0 0.43	10.21	Average
40	3.04	41.04	-14.96	56.00	30.4	0 0.43	10.21	QP
41	3.31	30.55	-15.45	46.00	19.8	9 0.44	10.22	Average
42	3.31	39.15	-16.85	56.00	28.4	9 0.44	10.22	QP
43	3.55	30.87	-15.13	46.00	20.2	0 0.45	10.22	Average
44	3.55	38.87	-17.13	56.00	28.2	0 0.45	10.22	QP
45	3.94	31.09	-14.91	46.00	20.4	0 0.46	10.23	Average
46	3.94	39.39	-16.61	56.00	28.7	0 0.46	10.23	QP
47	4.48	28.91	-17.09	46.00	18.2	0 0.48	10.23	Average
48	4.48	37.41	-18.59	56.00	26.7	0 0.48	10.23	QP

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Test Mode :	Mode 3	Temperature :	21~22℃				
Test Engineer :	Jack Tian	Relative Humidity :	41~42%				
Test Voltage :	120Vac / 60Hz	Phase :	Line				
Eurotion Type I	WCDMA850 Idle + Bluetoot	h Idle + USB Cable (d	ata link with Notebook) +WLAN				
Function Type :	Idle +Earphone + GPS RX						
100	Level (dBuV)	Dat	e: 2014-07-04 Time: 16:53:32				



Site : CO01-SZ Condition: FCC 15B_QP LISN_L_20140304 LINE

Project : (FC) 462803 Mode : Mode 3 IMEI : N/A

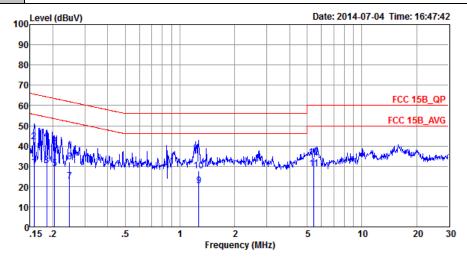
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBu₹	dBu∀	——dB	dB	
1	0.17	33.86	-21.26	55.12	23.30	0.22	10.34	Average
2 *	0.17	47.56	-17.56	65.12	37.00	0.22	10.34	QP
3	0.21	18.41	-34.82	53.23	7.91	0.22	10.28	Average
4	0.21	37.41	-25.82	63.23	26.91	0.22	10.28	QP
5	0.52	20.84	-25.16	46.00	10.40	0.29	10.15	Average
6	0.52	27.64	-28.36	56.00	17.20	0.29	10.15	QP
7	0.89	18.48	-27.52	46.00	8.10	0.23	10.15	Average
8	0.89	31.18	-24.82	56.00	20.80	0.23	10.15	QP
9	1.08	18.41	-27.59	46.00	8.00	0.26	10.15	Average
10	1.08	24.91	-31.09	56.00	14.50	0.26	10.15	QP
11	1.37	19.91	-26.09	46.00	9.50	0.24	10.17	Average
12	1.37	25.91	-30.09	56.00	15.50	0.24	10.17	QP

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Test Mode :	Mode 3	Temperature :	21~22℃				
Test Engineer :	Jack Tian	Relative Humidity :	41~42%				
Test Voltage :	120Vac / 60Hz	Phase :	Neutral				
Francisco Transco	WCDMA850 Idle + Bluetooth Idle + USB Cable (data link with Notebook) +WLAN						
Function Type :	Idle +Earphone + GPS RX						



: CO01-SZ Site

Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL Project : (FC)462803

: Mode 3 : N/A Mode IMEI

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.16	29.68	-25.92	55.60	19.00	0.33	10.35	Average
2	0.16	41.98	-23.62	65.60	31.30	0.33	10.35	QP
3	0.19	30.23	-24.01	54.24	19.60	0.32	10.31	Average
4	0.19	42.83	-21.41	64.24	32.20	0.32	10.31	QP
5	0.20	28.61	-24.84	53.45	18.00	0.32	10.29	Average
6	0.20	39.51	-23.94	63.45	28.90	0.32	10.29	QP
7	0.25	22.69	-29.17	51.86	12.10	0.34	10.25	Average
8	0.25	32.29	-29.57	61.86	21.70	0.34	10.25	QP
9	1.27	20.41	-25.59	46.00	9.91	0.34	10.16	Average
10	1.27	27.71	-28.29	56.00	17.21	0.34	10.16	QP
11 *	5.45	28.73	-21.27	50.00	18.00	0.48	10.25	Average
12	5.45	34.43	-25.57	60.00	23.70	0.48	10.25	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 (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.

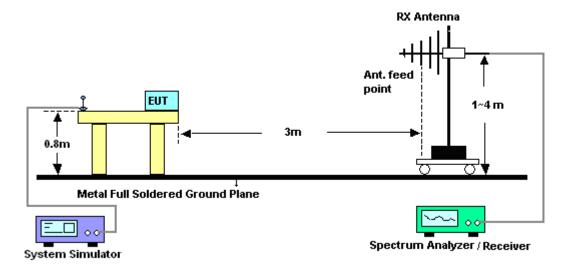
3.2.3. Test Procedures

- 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.
- 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

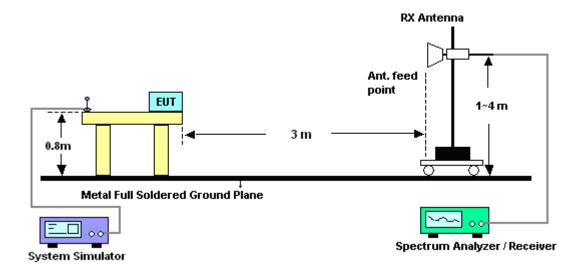
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

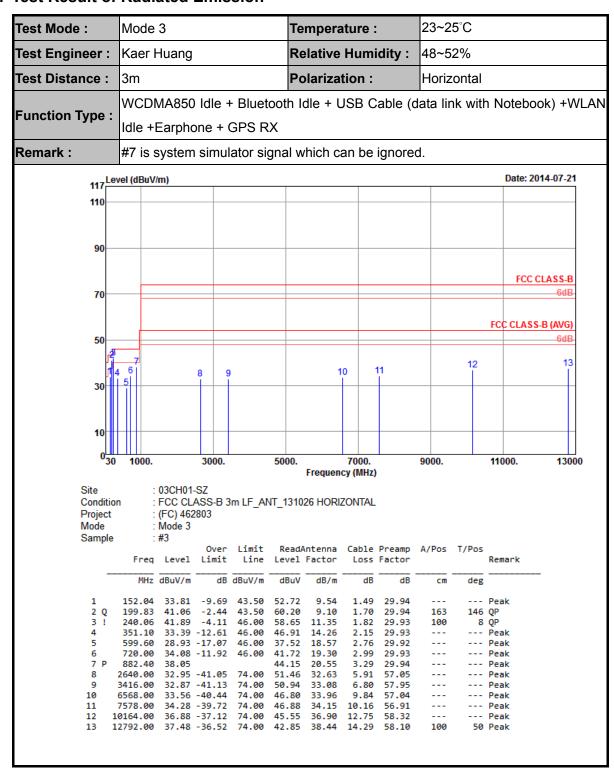


For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission



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Test Distance : 3m	Test Mode :	Mode 3			Te	mpera	ature :		23~25°C				
### ### ##############################	Test Engineer :	Kaer	Kaer Huang			Re	Relative Humidity :			48~5	52%		
Transfer Frequency Frequ	Test Distance :	3m				Po	olariza	tion :		Verti	cal		
117 110 12 13000 11000. 13000 11000. 13000 13000 11000. 13000 11000	Function Type :						dle + l	JSB C	Cable (d	data lii	nk witl	n Noteb	ook) +WLA
FCC CLASS B GdB	Remark :	#7 is	systen	n simu	lator si	gnal v	vhich c	an be	ignore	d.			
FCC CLASS-B FCC CLASS-B FCC CLASS-B GdB	447 Le	vel (dBuV	/m)									Date:	2014-07-21
FCC CLASS B GdB													
FCC CLASS-B (GdB) FCC CLASS-B (AVG) FCC CLASS-B (AVG) FCC CLASS-B (AVG) FCC CLASS-B (AVG) Frequency (MHz) Site : 03CH01-SZ Condition : FCC CLASS-B 3m LF_ANT_131026 VERTICAL Project : (FC) 462803 Mode : Mode 3 Sample :#3 Over Limit Line Level Factor Coss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 104.25 29.34 -14.16 43.59 46.39 11.60 1.29 29.94 Peak 2 P 199.83 38.75 -4.75 43.59 57.89 9.10 1.70 29.94 Peak 3 0 240.60 42.47 -3.53 46.09 59.23 11.55 1.82 29.93 109 125 QP 4 400.10 32.17 -13.83 46.00 43.66 19.30 1.50 2.99 29.94 Peak 5 599.60 31.56 -14.44 44.69 40.15 18.57 2.76 29.92 Peak 6 720.00 36.02 -9.98 46.00 43.66 19.30 2.99 29.93 Peak 7 881.70 38.54 44.44 46.8 40.15 18.57 2.76 29.92 Peak 8 2468.00 32.77 -41.23 74.00 51.73 32.33 5.71 57.00 Peak 9 3194.00 34.80 -39.20 74.00 51.73 32.33 57.15 75.00 Peak 9 3194.00 34.80 -39.20 74.00 51.73 32.33 57.15 75.00 Peak 10 6724.00 34.38 -39.62 74.00 47.00 33.75 9.86 57.20 Peak 11 7942.00 34.38 -39.62 74.00 47.00 35.73 38.79 8.86 57.20 Peak 12 993.40 36.55 -37.50 74.00 45.15 33.79 8.86 57.20 Peak 12 993.40 36.55 -37.50 74.00 45.15 33.87 9.86 57.20 Peak 12 993.40 36.55 -37.50 74.00 45.15 33.87 9.86 57.20 Peak 12 993.40 36.55 -37.50 74.00 45.15 33.87 9.86 57.20 Peak 12 993.40 36.55 -37.50 74.00 45.15 33.87 9.86 57.20 Peak 12 993.40 36.55 -37.50 74.00 45.15 33.87 9.86 57.20 Peak													
To Frequency (MHz) To Frequency (MHz)	90												
To Frequency (MHz) To Frequency (MHz)													
FCC CLASS-B (AVG) 6dB 6d	70-											FCC	
Site													
Site : 03CH01-SZ Condition : FCC CLASS-B 3m LF_ANT_131026 VERTICAL Project : (FC) 462803 Mode : Mode 3 Sample :#3 Over Limit Line Level Factor Loss Factor Remark NHz dBu/m dB dBuV/m dB uV dB/m dB dB cm deg 1 104.25 29.34 -14.16 43.50 46.39 11.60 1.29 29.94 Peak 2 P 199.83 38.75 -4.75 43.50 57.89 9.10 1.70 29.94 Peak 3 Q 240.06 42.47 -3.53 46.00 59.23 11.35 1.82 29.93 100 125 QP 4 400.10 32.17 -13.83 46.00 43.85 15.95 2.29 29.92 Peak 5 5 999.60 31.56 14.44 46.00 40.15 18.57 2.76 29.92 Peak 6 720.00 36.02 -9.98 46.00 43.66 19.30 2.99 29.93 Peak 7 881.70 38.54 46.00 43.66 19.30 2.99 29.94 Peak 8 2468.00 32.77 -41.23 74.00 51.73 32.33 5.71 57.00 Peak 9 3194.00 34.80 -39.20 74.00 52.71 33.04 6.57 57.52 Peak 10 6724.00 33.53 40.47 74.00 47.00 33.87 9.86 57.20 Peak 11 7942.00 34.38 -39.62 74.00 45.15 34.78 10.62 56.57 Peak 11 7942.00 34.38 -39.62 74.00 45.15 34.78 10.62 56.57 Peak 11 7942.00 34.38 -39.62 74.00 45.15 34.78 10.62 56.57 Peak 11 7942.00 34.38 -39.62 74.00 45.15 34.78 10.62 56.57 Peak 12 9934.00 36.56 -37.50 74.00 45.15 36.93 12.54 58.12 Peak	50											FCC CLAS	
Site	50 <u> </u>												-Vub
Site : 03CH01-SZ Condition : FCC CLASS-B 3m LF_ANT_131026 VERTICAL Project : (FC) 462803 Mode : Mode 3 Sample : #3 Over Limit Line Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB dB cm deg	1	6 f 4 5 l		8 9				10	11		12 		1
Site : 03CH01-SZ Condition : FCC CLASS-B 3m LF_ANT_131026 VERTICAL Project : (FC) 462803 Mode : Mode 3 Sample : #3 Over Limit Line Level Factor Loss Factor Remark Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 104.25 29.34 -14.16 43.50 46.39 11.60 1.29 29.94 Peak 2 P 199.83 38.75 -4.75 43.50 57.89 9.10 1.70 29.94 Peak 3 Q 240.06 42.47 -3.53 46.00 59.23 11.35 1.82 29.93 100 125 QP 4 400.10 32.17 -13.83 46.00 59.23 11.35 1.82 29.93 100 125 QP 4 400.10 32.17 -13.83 46.00 43.85 15.95 2.29 29.92 Peak 5 599.60 31.56 -14.44 46.00 40.15 18.57 2.76 29.92 Peak 6 720.00 36.02 -9.98 46.00 43.66 19.30 2.99 29.93 Peak 6 720.00 36.02 -9.98 46.00 43.66 19.30 2.99 29.93 Peak 7 881.70 38.54 44.63 20.56 3.29 29.94 Peak 8 2468.00 32.77 -41.23 74.00 51.73 32.33 5.71 57.00 Peak 9 3194.00 34.80 -39.20 74.00 52.71 33.04 6.57 57.52 Peak 10 6724.00 34.38 -39.62 74.00 52.71 33.04 6.57 57.52 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.55 34.78 10.62 56.57 Peak	30												
Site : 03CH01-SZ Condition : FCC CLASS-B 3m LF_ANT_131026 VERTICAL Project : (FC) 462803 Mode : Mode 3 Sample :#3 Over Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 104.25 29.34 -14.16 43.50 46.39 11.60 1.29 29.94 Peak 2 P 199.83 38.75 -4.75 43.50 57.89 9.10 1.70 29.94 Peak 3 Q 240.06 42.47 -3.53 46.00 59.23 11.35 1.82 29.93 100 125 QP 4 400.10 32.17 -13.83 46.00 43.85 15.95 2.29 29.92 Peak 5 599.60 31.56 -14.44 46.00 40.15 18.57 2.76 29.92 Peak 6 720.00 36.02 -9.98 46.00 43.85 15.95 2.29 29.93 Peak 7 881.70 38.54 44.63 20.56 3.29 29.93 Peak 8 2468.00 32.77 -41.23 74.00 51.73 32.33 5.71 57.00 Peak 9 3194.00 34.80 -39.20 74.00 51.73 32.33 5.71 57.00 Peak 10 6724.00 33.53 -40.47 74.00 51.73 32.33 57.1 57.00 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.15 36.93 12.54 58.12 Peak	10												
Site : 03CH01-SZ Condition : FCC CLASS-B 3m LF_ANT_131026 VERTICAL Project : (FC) 462803 Mode : Mode 3 Sample :#3 Over Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 104.25 29.34 -14.16 43.50 46.39 11.60 1.29 29.94 Peak 2 P 199.83 38.75 -4.75 43.50 57.89 9.10 1.70 29.94 Peak 3 Q 240.06 42.47 -3.53 46.00 59.23 11.35 1.82 29.93 100 125 QP 4 400.10 32.17 -13.83 46.00 43.85 15.95 2.29 29.92 Peak 5 599.60 31.56 -14.44 46.00 40.15 18.57 2.76 29.92 Peak 6 720.00 36.02 -9.98 46.00 43.85 15.95 2.29 29.93 Peak 7 881.70 38.54 44.63 20.56 3.29 29.93 Peak 8 2468.00 32.77 -41.23 74.00 51.73 32.33 5.71 57.00 Peak 9 3194.00 34.80 -39.20 74.00 51.73 32.33 5.71 57.00 Peak 10 6724.00 33.53 -40.47 74.00 51.73 32.33 57.1 57.00 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.15 36.93 12.54 58.12 Peak	030	1000.		3000.		5000.		7000.		9000.		11000.	13000
Condition : FCC CLASS-B 3m LF_ANT_131026 VERTICAL Project : (FC) 462803 Mode : Mode 3 Sample :#3 Over Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg							Frequen	cy (MHz))				
Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 1 104.25 29.34 -14.16 43.50 46.39 11.60 1.29 29.94 Peak 2 P 199.83 38.75 -4.75 43.50 57.89 9.10 1.70 29.94 Peak 3 Q 240.06 42.47 -3.53 46.00 59.23 11.35 1.82 29.93 100 125 QP 4 400.10 32.17 -13.83 46.00 43.85 15.95 2.29 29.92 Peak 5 599.60 31.56 -14.44 46.00 40.15 18.57 2.76 29.92 Peak 6 720.00 36.02 -9.98 46.00 43.66 19.30 2.99 29.93 Peak 7 881.70 38.54 44.63 20.56 3.29 29.94 Peak 8 2468.00 32.77 -41.23 74.00 51.73 32.33 5.71 57.00 Peak 9 3194.00 34.80 -39.20 74.00 55.71 33.04 6.57 57.52 Peak 10 6724.00 33.53 -40.47 74.00 47.00 33.87 9.86 57.20 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.15 36.93 12.54 58.12 Peak	Condition Project Mode	n :	FCC CL (FC) 462 Mode 3	ASS-B 3 2803									
1 104.25 29.34 -14.16 43.50 46.39 11.60 1.29 29.94 Peak 2 P 199.83 38.75 -4.75 43.50 57.89 9.10 1.70 29.94 Peak 3 Q 240.06 42.47 -3.53 46.00 59.23 11.35 1.82 29.93 100 125 QP 4 400.10 32.17 -13.83 46.00 43.85 15.95 2.29 29.92 Peak 5 599.60 31.56 -14.44 46.00 40.15 18.57 2.76 29.92 Peak 6 720.00 36.02 -9.98 46.00 43.66 19.30 2.99 29.93 Peak 7 881.70 38.54 44.63 20.56 3.29 29.94 Peak 8 2468.00 32.77 -41.23 74.00 51.73 32.33 5.71 57.00 Peak 9 3194.00 34.80 -39.20 74.00 52.71 33.04 6.57 57.52 Peak 10 6724.00 33.53 -40.47 74.00 47.00 33.87 9.86 57.20 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.15 36.93 12.54 58.12 Peak		Freq	Level	Limit	Line					A/Pos	T/Pos	Remark	
2 P 199.83 38.75 -4.75 43.50 57.89 9.10 1.70 29.94 Peak 3 Q 240.06 42.47 -3.53 46.00 59.23 11.35 1.82 29.93 100 125 QP 4 400.10 32.17 -13.83 46.00 43.85 15.95 2.29 29.92 Peak 5 599.60 31.56 -14.44 46.00 40.15 18.57 2.76 29.92 Peak 6 720.00 36.02 -9.98 46.00 43.66 19.30 2.99 29.93 Peak 7 881.70 38.54 44.63 20.56 3.29 29.94 Peak 8 2468.00 32.77 -41.23 74.00 51.73 32.33 5.71 57.00 Peak 9 3194.00 34.80 -39.20 74.00 52.71 33.04 6.57 57.52 Peak 10 6724.00 33.53 -40.47 74.00 47.00 33.87 9.86 57.20 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.15 36.93 12.54 58.12 Peak		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
4 400.10 32.17 -13.83 46.00 43.85 15.95 2.29 29.92 Peak 5 599.60 31.56 -14.44 46.00 40.15 18.57 2.76 29.92 Peak 6 720.00 36.02 -9.98 46.00 43.66 19.30 2.99 29.93 Peak 7 881.70 38.54 44.63 20.56 3.29 29.94 Peak 8 2468.00 32.77 -41.23 74.00 51.73 32.33 5.71 57.00 Peak 9 3194.00 34.80 -39.20 74.00 52.71 33.04 6.57 57.52 Peak 10 6724.00 33.53 -40.47 74.00 47.00 33.87 9.86 57.20 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.15 36.93 12.54 58.12 Peak								1.70	29.94				
5 599.60 31.56 -14.44 46.00 40.15 18.57 2.76 29.92 Peak 6 720.00 36.02 -9.98 46.00 43.66 19.30 2.99 29.93 Peak 7 881.70 38.54 44.63 20.56 3.29 29.94 Peak 8 2468.00 32.77 -41.23 74.00 51.73 32.33 5.71 57.00 Peak 9 3194.00 34.80 -39.20 74.00 52.71 33.04 6.57 57.52 Peak 10 6724.00 33.53 -40.47 74.00 47.00 33.87 9.86 57.20 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.15 36.93 12.54 58.12 Peak	-												
7 881.70 38.54 44.63 20.56 3.29 29.94 Peak 8 2468.00 32.77 -41.23 74.00 51.73 32.33 5.71 57.00 Peak 9 3194.00 34.80 -39.20 74.00 52.71 33.04 6.57 57.52 Peak 10 6724.00 33.53 -40.47 74.00 47.00 33.87 9.86 57.20 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.15 36.93 12.54 58.12 Peak	5	599.60	31.56	-14.44	46.00	40.15	18.57	2.76	29.92			Peak	
8 2468.00 32.77 -41.23 74.00 51.73 32.33 5.71 57.00 Peak 9 3194.00 34.80 -39.20 74.00 52.71 33.04 6.57 57.52 Peak 10 6724.00 33.53 -40.47 74.00 47.00 33.87 9.86 57.20 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.15 36.93 12.54 58.12 Peak					46.00								
10 6724.00 33.53 -40.47 74.00 47.00 33.87 9.86 57.20 Peak 11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.15 36.93 12.54 58.12 Peak	8	2468.00	32.77	-41.23		51.73	32.33	5.71	57.00			Peak	
11 7942.00 34.38 -39.62 74.00 45.55 34.78 10.62 56.57 Peak 12 9934.00 36.50 -37.50 74.00 45.15 36.93 12.54 58.12 Peak													
	11	7942.00	34.38	-39.62	74.00	45.55	34.78	10.62	56.57			Peak	

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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	Feb. 21, 2014	Jul. 21, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	Jul. 21, 2014	May 25, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	23188	30MHz~2GHz	Oct. 26, 2013	Jul. 21, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Jul. 21, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Jul. 21, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Jul. 21, 2014	May 07, 2015	Radiation (03CH01-SZ)
AC Source(AVR)	Chroma	61601	61601000198 5	100Vac~250Vac	Mar. 25, 2014	Jul. 21, 2014	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Jul. 21, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Jul. 21, 2014	NCR	Radiation (03CH01-SZ)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Jul. 04, 2014	Feb. 20, 2015	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 04, 2014	Jul. 04, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 04, 2014	Jul. 04, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Dec. 17, 2013	Jul. 04, 2014	Dec. 16, 2014	Conduction (CO01-SZ)

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5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.2
Confidence of 95% (U = 2Uc(y))	2.3

Report No.: FC462803

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of	2.0
Confidence of 95% (U = 2Uc(y))	3.9

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