

FCC Test Report

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

EQUIPMENT: Mobile Phone

BRAND NAME : LANIX

MODEL NAME : Ilium S220
MARKETING NAME : Ilium S220
FCC ID : ZC4S220

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Jan. 03, 2014 and testing was completed on Jan. 11, 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.

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Testing Laboratory 2353



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Report No.: FC410301

REVISION HISTORY

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC410301	Rev. 01	Initial issue of report	Jan. 24, 2014

FCC ID: ZC4S220



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	7.62 dB at
					Under limit
					Under limit
3.2	15 100	Dadiated Emission	< 15 100 limita	DACC	Under limit 7.62 dB at 0.160 MHz Under limit 4.28 dB at 299.660 MHz for
	15.109	Radiated Emission	< 15.109 limits	PASS	
					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. Feature of Equipment Under Test

Product Feature					
Equipment	Mobile Phone				
Brand Name	LANIX				
Model Name	Ilium S220				
Marketing Name	Ilium S220				
FCC ID	ZC4S220				
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/ WLAN2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0+EDR/Bluetooth v4.0 LE				
HW Version	V1.1				
SW Version	ALPS.JB3.MP.V1				
EUT Stage	Pre-production				

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 WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz				
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz				
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS: 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 v3.0 EDR: GFSK, π /4-DQPSK, 8-DPSK Bluetooth v4.0 LE: GFSK GPS: BPSK				

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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					
Took Cita No	Sporton	Site No.	FCC Registration No.			
Test Site No.	CO01-SZ	03CH01-SZ	831040			

1.7. 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 AC	EMI RE<1G	EMI RE≥1G
1.	Charging Mode (EUT with adapter)		\boxtimes	Note 1
2.	Data application transferred mode (EUT connected with notebook)		\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 is test item 2.

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

Remark:

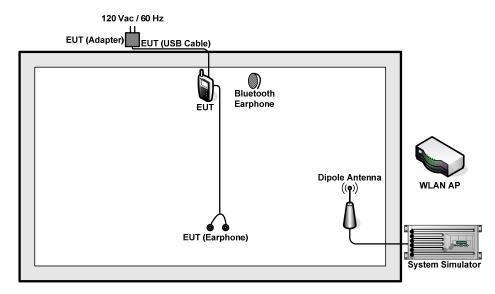
- 1. The worst case of AC is mode 3; only the test data of this mode is reported.
- 2. The worst case of RE < 1G is mode 3; only the test data of this mode is reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.

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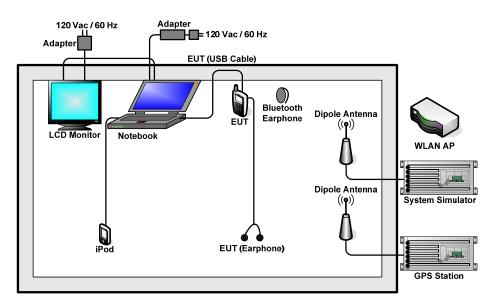
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2.2. Connection Diagram of Test System



<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	CMW500	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	T&E	GS-50	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-link	DIR-815	KA2IR815A1	N/A	Unshielded,1.8m
4.	Bluetooth Earphone	Nokia	BH-108	FCC DoC	N/A	N/A
5.	Notebook	Dell	Vostro2420	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8 m
6.	Notebook	Lenovo	G480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
7.	Monitor	Dell	IN1940MWb	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
8.	iPod nano 8GB	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2 m	N/A

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2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA idle mode during the testing. The EUT was synchronized to the BCCH, and was in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Execute the program, "Winthrax" under WIN7 installed in notebook for files transfer with EUT via USB cable.
- 2. Turn on GPS function to make the EUT receive continuous signals from GPS station.
- 3. Execute "Video player" to play MPEG4 files.
- 4. Turn on camera to capture images.

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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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3.1.4 Test Setup



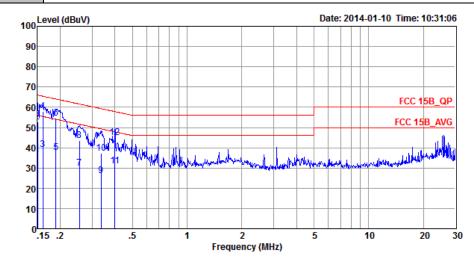
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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 3	Temperature :	21~22 ℃		
Test Engineer :	Henry Chen	Relative Humidity :	41~42%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Function Tune	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with				
Function Type :	Notebook) + Earphone + GF	PS Rx			



: CO01-SZ Site

Condition: FCC 15B_QP LISN_L_20130328 LINE Project : (FC)410301

Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBu∀	dBuV	dB	dB	
1	0.15	36.52	-19.48	56.00	26.10	0.06	10.36	Average
2	0.15	52.72	-13.28	66.00	42.30	0.06	10.36	QP
3	0.16	39.01	-16.42	55.43	28.61	0.06	10.34	Average
4 *	0.16	57.81	-7.62	65.43	47.41	0.06	10.34	QP
5	0.19	37.57	-16.49	54.06	27.19	0.07	10.31	Average
6	0.19	54.77	-9.29	64.06	44.39	0.07	10.31	QP
7	0.25	29.83	-21.77	51.60	19.50	0.09	10.24	Average
8	0.25	43.63	-17.97	61.60	33.30	0.09	10.24	QP
9	0.34	26.30	-23.01	49.31	16.00	0.11	10.19	Average
10	0.34	37.30	-22.01	59.31	27.00	0.11	10.19	QP
11	0.40	30.89	-16.97	47.86	20.60	0.12	10.17	Average
12	0.40	44.99	-12.87	57.86	34.70	0.12	10.17	QP

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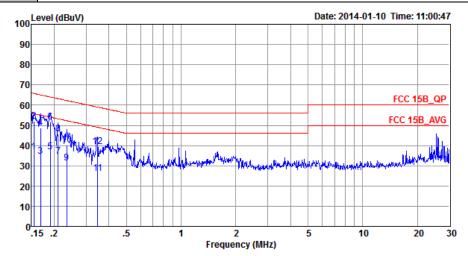


 Test Mode :
 Mode 3
 Temperature :
 21~22°C

 Test Engineer :
 Henry Chen
 Relative Humidity :
 41~42%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Neutral

 Function Type :
 WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx



Site : CO01-SZ

Condition: FCC 15B_QP LISN_N_20130328 NEUTRAL

Project : (FC)410301 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	36.99	-18.75	55.74	26.60	0.04	10.35	Average
2	0.15	51.99	-13.75	65.74	41.60	0.04	10.35	QP
3	0.17	34.67	-20.36	55.03	24.30	0.04	10.33	Average
4	0.17	48.77	-16.26	65.03	38.40	0.04	10.33	QP
5	0.19	37.05	-16.97	54.02	26.70	0.04	10.31	Average
6 *	0.19	51.55	-12.47	64.02	41.20	0.04	10.31	QP
7	0.21	34.72	-18.46	53.18	24.40	0.04	10.28	Average
8	0.21	45.72	-17.46	63.18	35.40	0.04	10.28	QP
9	0.23	31.30	-21.00	52.30	21.00	0.04	10.26	Average
10	0.23	40.30	-22.00	62.30	30.00	0.04	10.26	QP
11	0.35	26.33	-22.72	49.05	16.10	0.04	10.19	Average
12	0.35	39.63	-19.42	59.05	29.40	0.04	10.19	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 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.
- 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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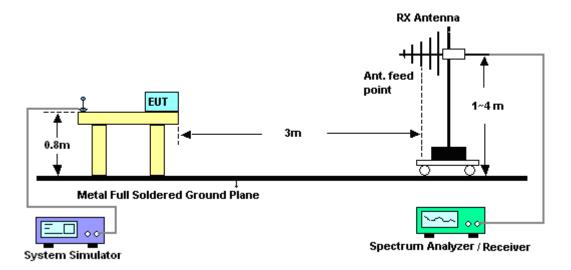
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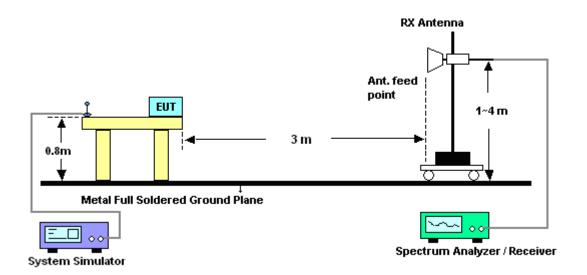


3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

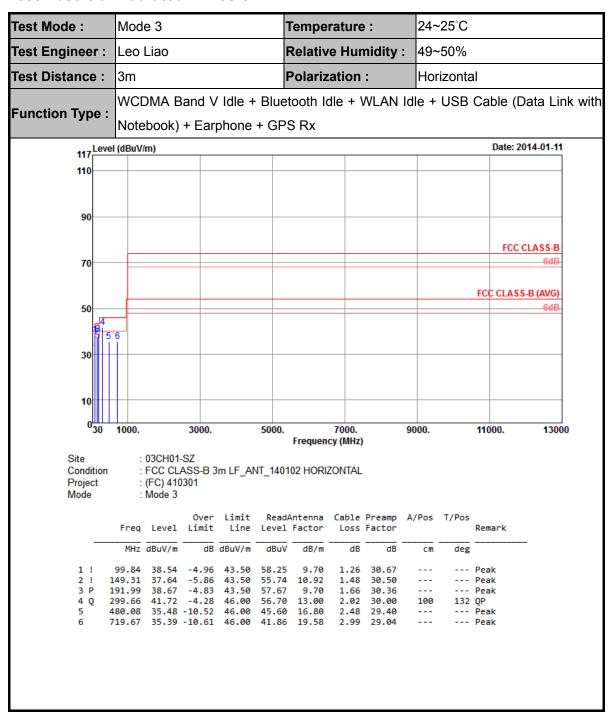


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3.2.5. Test Result of Radiated Emission



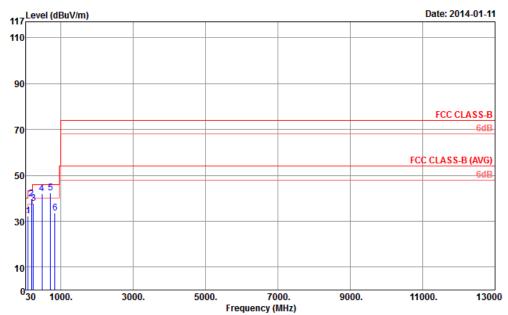
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24~25°C Test Mode: Mode 3 Temperature: 49~50% Test Engineer: Leo Liao **Relative Humidity:** Test Distance: 3m Polarization: Vertical WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx

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: 03CH01-SZ

Condition : FCC CLASS-B 3m LF_ANT_140102 VERTICAL

: (FC) 410301 Project Mode : Mode 3

		Freq	Level		Limit Line						T/Pos	Remark
	_	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		99.84	32.20	-11.30	43.50	51.91	9.70	1.26	30.67			Peak
2	!	191.99	39.68	-3.82	43.50	58.68	9.70	1.66	30.36			Peak
3 (Q	239.52	37.91	-8.09	46.00	54.19	12.10	1.82	30.20	100	244	QP
4	!	480.08	41.89	-4.11	46.00	52.01	16.80	2.48	29.40			Peak
5	Р	719.67	42.50	-3.50	46.00	48.97	19.58	2.99	29.04			Peak
6		838.01	33.46	-12.54	46.00	38.61	20.50	3.23	28.88			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	Mar. 29, 2013	Jan. 10, 2014	Mar. 28, 2014	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 28, 2013	Jan. 10, 2014	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 28, 2013	Jan. 10, 2014	Mar. 27, 2014	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Nov. 19, 2013	Jan. 10, 2014	Nov. 18, 2014	Conduction (CO01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	Apr. 04, 2013	Jan. 11, 2014	Apr. 03, 2014	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Dec. 26, 2013	Jan. 11, 2014	Dec. 25, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Jan. 11, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz Gain 30db	Mar. 29, 2013	Jan. 11, 2014	Mar. 28, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 29, 2013	Jan. 11, 2014	Mar. 28, 2014	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0 ~ 360 degree	N/A	Jan. 11, 2014	N/A	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m ~ 4 m	N/A	Jan. 11, 2014	N/A	Radiation (03CH01-SZ)

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5. Uncertainty of Evaluation

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

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

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

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

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