

FCC RF Test Report

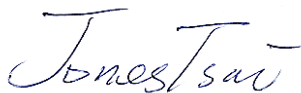
APPLICANT : Maestro Wireless Holdings Limited
EQUIPMENT : 3G WiFi Router
BRAND NAME : Maestro
MODEL NAME : E206XT
MARKETING NAME : E206XT
FCC ID : WN6-E206XT
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Mar. 17, 2015 and testing was completed on Apr. 08, 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 / TIA / EIA-603-C-2004 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: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL (SHENZHEN) INC.

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Nanshan District, Shenzhen, Guangdong, P. R. China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG531712	Rev. 01	Initial issue of report	Apr. 23, 2015

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	RSS-132 (5.4) RSS-133 (6.4)	Conducted Output Power	Reporting Only	PASS	-
3.2	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.3	§2.1053 §22.917(a) §24.238(a)	RSS-132 (5.5) RSS-133 (6.5)	Field Strength of Spurious Radiation	$< 43 + 10 \log_{10}(P[\text{Watts}])$	PASS	Under limit 23.35 dB at 1672.000 MHz

1 General Description

1.1 Applicant

Maestro Wireless Holdings Limited

FLAT A & B, 9/F, WING CHEONG FACTORY BUILDING, 121 KING LAM STREET, CHEUNG SHA WAN, HONG KONG

1.2 Manufacturer

Maestro Wireless Holdings Limited

FLAT A & B, 9/F, WING CHEONG FACTORY BUILDING, 121 KING LAM STREET, CHEUNG SHA WAN, HONG KONG

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	3G WiFi Router
Brand Name	Maestro
Model Name	E206XT
Marketing Name	E206XT
FCC ID	WN6-E206XT
Integrated WWAN Module	Brand Name: AirPrime Model Name: SL9090
EUT supports Radios application	GPRS/EGPRS/WCDMA/HSPA/ WLAN2.4GHz 802.11b/g/n HT20/HT40
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.

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 WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 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
Maximum Output Power to Antenna	GSM850 : 32.41 dBm GSM1900 : 29.28 dBm WCDMA Band V : 22.97 dBm WCDMA Band II : 22.57 dBm
Antenna Type	Dipole Antenna
Type of Modulation	GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink)

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)
Part 22	GSM850 GSM	GMSK	0.5808
Part 22	GSM850 EDGE class 8	8PSK	0.5200
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0452
Part 24	GSM1900 GSM	GMSK	1.0508
Part 24	GSM1900 EDGE class 8	8PSK	1.1982
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.1655

1.7 Testing 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.		
	TH01-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.	
	03CH01-SZ	831040/4086F-1	

Note: The test site complies with ANSI C63.4 2009 requirement.

1.8 Applicable Standards

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

- ♦ FCC 47 CFR Part 2, 22(H), 24(E)
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- ♦ IC RSS-132 Issue 3
- ♦ IC RSS-133 Issue 6
- ♦ IC RSS-Gen Issue 4

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	GPRS class 8 Link	GPRS class 8 Link
GSM 1900	GPRS class 8 Link	GPRS class 8 Link
WCDMA Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link
WCDMA Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link

Note: The maximum power levels are chosen to test as the worst case configuration as follows:

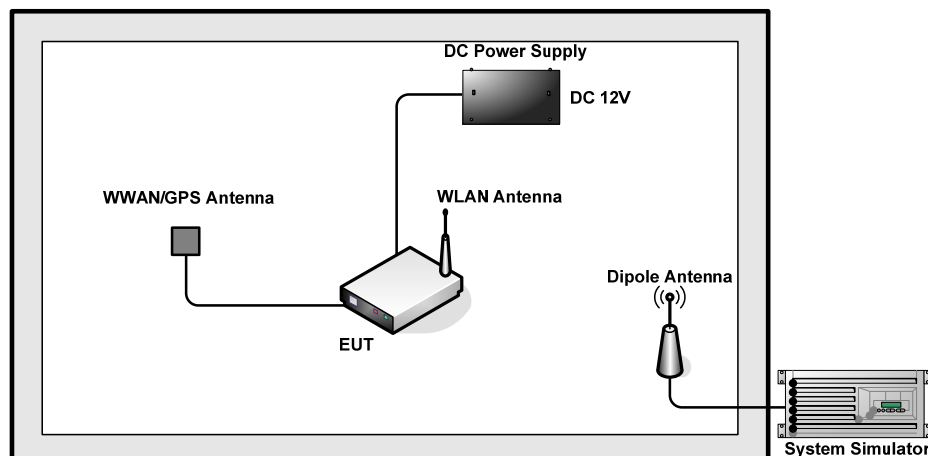
GSM mode for GMSK modulation,
EDGE multi-slot class 8 mode for 8PSK modulation,
RMC 12.2Kbps mode for WCDMA band V,
RMC 12.2Kbps mode for WCDMA band II,
only these modes were used for all tests.

Conducted Power Measurement Results:

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GPRS class 8	32.28	32.41	32.05	28.72	28.90	29.28
GPRS class 10	32.07	32.08	31.88	28.55	28.76	29.22
EGPRS class 8	26.60	26.55	26.53	25.19	25.05	25.04
EGPRS class 10	26.52	26.54	26.53	25.13	25.07	25.08
EGPRS class 11	26.45	26.52	26.52	25.18	25.03	25.08
EGPRS class 12	26.33	26.38	26.52	25.03	25.08	25.08

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6
RMC 12.2Kbps	22.97	22.88	22.92	22.57	22.40	22.48
HSDPA Subtest-1	22.44	22.49	22.53	21.37	21.48	21.53
HSDPA Subtest-2	22.48	22.50	22.65	21.63	21.57	21.60
HSDPA Subtest-3	21.97	22.00	22.06	21.19	21.04	21.07
HSDPA Subtest-4	21.97	22.00	22.06	21.20	21.15	21.21
HSUPA Subtest-1	22.36	21.85	21.75	21.17	20.89	21.42
HSUPA Subtest-2	20.82	20.79	20.68	20.10	20.25	20.07
HSUPA Subtest-3	21.01	21.06	20.94	20.36	20.00	20.28
HSUPA Subtest-4	20.98	20.91	21.08	20.77	20.48	20.54
HSUPA Subtest-5	22.40	22.50	22.38	21.20	21.30	21.50

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	WWAN/GPS Antenna	N/A	N/A	N/A	N/A	N/A
4.	WLAN Antenna	N/A	N/A	N/A	N/A	N/A

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

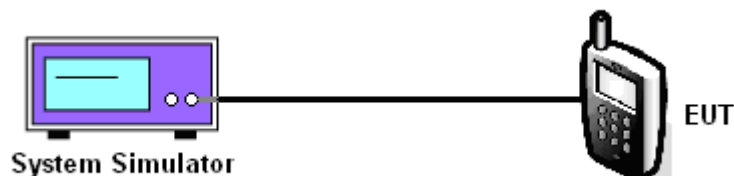
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Cellular Band									
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6
Conducted Power (dBm)	33.28	33.45	33.05	27.10	27.29	27.30	23.67	23.58	23.62

PCS Band									
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Conducted Power (dBm)	28.72	28.90	29.78	25.39	25.75	26.14	23.29	23.10	23.18

Note: maximum burst average power for GSM, and maximum average power for WCDMA.



3.2 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.2.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

3.2.2 Measuring Instruments

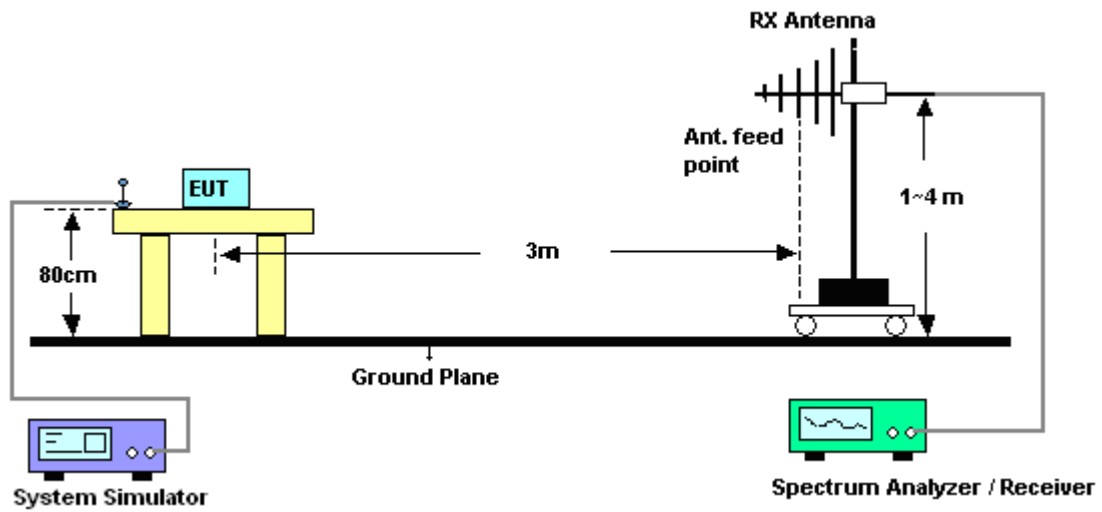
The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
2. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at the same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP = LVL + \text{Correction factor}$ and $ERP = EIRP - 2.15$.

	GSM/GPRS/EDGE	WCDMA/HSPA
SPAN	500kHz	10MHz
RBW	10kHz	100kHz
VBW	30kHz	300kHz
Detector	RMS	RMS
Trace	Average	Average
Average Type	Power	Power
Sweep Count	100	100

3.2.4 Test Setup



3.2.5 Test Result of ERP

GSM850 (GSM) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-0.43	29.88	27.30	0.5370
836.4	-0.65	30.11	27.31	0.5383
848.8	-1.32	31.11	27.64	0.5808
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-7.26	34.32	24.91	0.3097
836.4	-7.87	34.12	24.10	0.2570
848.8	-7.40	33.93	24.38	0.2742

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

GSM850 (EDGE class 8) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-0.78	29.88	26.95	0.4955
836.4	-1.36	30.11	26.60	0.4571
848.8	-1.80	31.11	27.16	0.5200
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-9.96	34.32	22.21	0.1663
836.4	-9.87	34.12	22.10	0.1622
848.8	-9.49	33.93	22.29	0.1694

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.4	-12.42	29.9	15.33	0.0341
836.4	-12.99	30.12	14.98	0.0315
846.6	-13.98	30.89	14.76	0.0299
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.4	-15.65	34.35	16.55	0.0452
836.4	-16.20	34.12	15.77	0.0378
846.6	-16.35	34.04	15.54	0.0358

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

3.2.6 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-11.60	40.41	28.81	0.7604
1880.0	-11.94	41.21	29.27	0.8459
1909.8	-10.64	40.86	30.22	1.0508
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-16.08	41.73	25.65	0.3673
1880.0	-16.63	41.26	24.63	0.2906
1909.8	-15.35	41.03	25.68	0.3694

* EIRP = LVL (dBm) + Correction Factor (dB)

GSM1900 (EDGE class 8) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-10.68	40.41	29.73	0.9398
1880.0	-10.58	41.21	30.63	1.1570
1909.8	-10.07	40.86	30.79	1.1982
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-16.58	41.73	25.15	0.3274
1880.0	-16.71	41.26	24.55	0.2853
1909.8	-15.49	41.03	25.54	0.3577

* EIRP = LVL (dBm) + Correction Factor (dB)

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1852.4	-18.94	40.25	21.31	0.1351
1880.0	-19.39	41.21	21.82	0.1522
1907.6	-18.62	40.81	22.19	0.1655
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1852.4	-24.12	41.79	17.67	0.0584
1880.0	-24.70	41.26	16.56	0.0453
1907.6	-23.67	40.94	17.27	0.0533

* EIRP = LVL (dBm) + Correction Factor (dB)

3.3 Field Strength of Spurious Radiation Measurement

3.3.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.3.2 Measuring Instruments

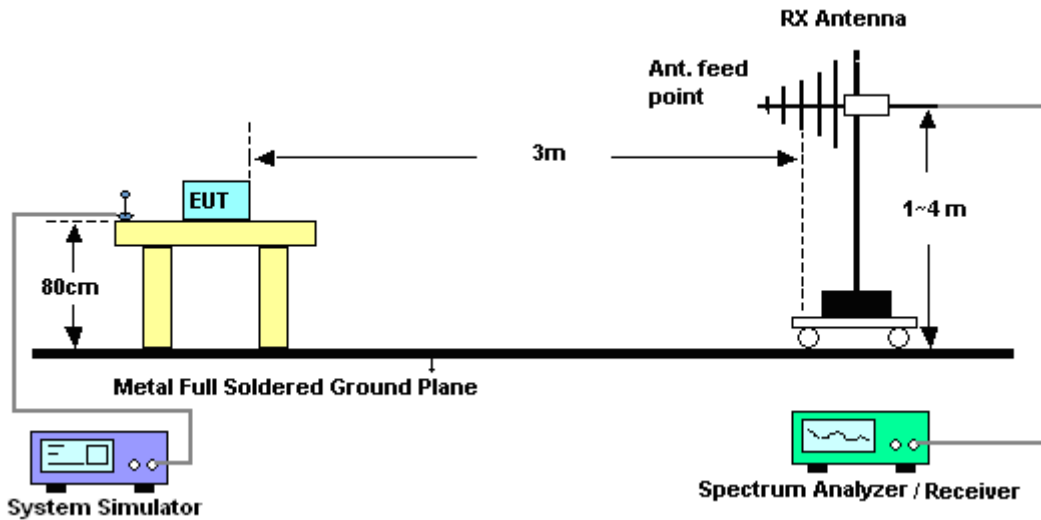
The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

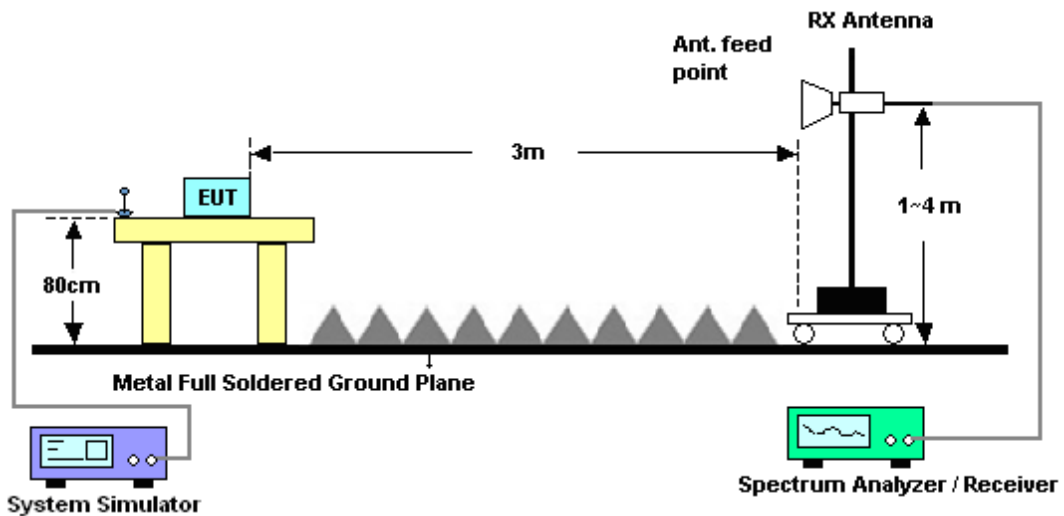
1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12. $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

3.3.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.3.5 Test Result of Field Strength of Spurious Radiated

Band :	GSM850 for CH128					Temperature :	23~25°C		
Test Mode :	GSM Link (GMSK)					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Horizontal		
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1648.4	-41.28	-13	-28.28	-57.60	-47.96	0.57	9.40	H	Pass
2472.6	-47.70	-13	-34.70	-69.15	-55.40	0.75	10.60	H	Pass
3296.8	-45.01	-13	-32.01	-70.94	-54.59	0.87	12.60	H	Pass

Band :	GSM850 for CH128					Temperature :	23~25°C		
Test Mode :	GSM Link (GMSK)					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Vertical		
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1648.4	-44.68	-13	-31.68	-61.31	-51.36	0.57	9.40	V	Pass
2472.6	-46.29	-13	-33.29	-69.80	-53.99	0.75	10.60	V	Pass
3296.8	-40.29	-13	-27.29	-70.31	-49.87	0.87	12.60	V	Pass



Band :	GSM850 for CH189	Temperature :	23~25°C						
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-36.35	-13	-23.35	-53.04	-43.03	0.57	9.40	H	Pass
2510	-47.58	-13	-34.58	-69.04	-55.28	0.75	10.60	H	Pass
3346	-44.78	-13	-31.78	-70.71	-54.36	0.87	12.60	H	Pass

Band :	GSM850 for CH189	Temperature :	23~25°C						
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
1672	-43.54	-13	-30.54	-60.36	-50.22	0.57	9.40	V	Pass
2510	-45.10	-13	-32.10	-69.26	-52.80	0.75	10.60	V	Pass
3346	-42.47	-13	-29.47	-71.50	-52.05	0.87	12.60	V	Pass



Band :	GSM850 for CH251	Temperature :	23~25°C						
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
1697.6	-45.95	-13	-32.95	-62.05	-52.63	0.57	9.40	H	Pass
2546.4	-48.94	-13	-35.94	-69.89	-56.64	0.75	10.60	H	Pass
3395.2	-44.27	-13	-31.27	-70.20	-53.85	0.87	12.60	H	Pass

Band :	GSM850 for CH251	Temperature :	23~25°C						
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain	(H/V)	
(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dBi)		
1697.6	-52.31	-13	-39.31	-67.44	-58.99	0.57	9.40	V	Pass
2546.4	-44.61	-13	-31.61	-69.18	-52.31	0.75	10.60	V	Pass
3395.2	-40.96	-13	-27.96	-70.94	-50.54	0.87	12.60	V	Pass



Band :	GSM850 for CH128					Temperature :	23~25°C		
Test Mode :	GPRS class 8 Link (GMSK)					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Horizontal		
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
1648.4	-44.60	-13	-31.60	-60.79	-51.28	0.57	9.40	H	Pass
2472.6	-47.22	-13	-34.22	-68.73	-54.92	0.75	10.60	H	Pass
3296.8	-44.28	-13	-31.28	-70.21	-53.86	0.87	12.60	H	Pass

Band :	GSM850 for CH128					Temperature :	23~25°C		
Test Mode :	GPRS class 8 Link (GMSK)					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Vertical		
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
1648.4	-48.52	-13	-35.52	-64.72	-55.20	0.57	9.40	V	Pass
2472.6	-43.86	-13	-30.86	-68.96	-51.56	0.75	10.60	V	Pass
3296.8	-40.76	-13	-27.76	-70.75	-50.34	0.87	12.60	V	Pass



Band :	GSM850 for CH189					Temperature :	23~25°C		
Test Mode :	GPRS class 8 Link (GMSK)					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Horizontal		
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-44.77	-13	-31.77	-60.94	-51.45	0.57	9.40	H	Pass
2510	-48.88	-13	-35.88	-69.86	-56.58	0.75	10.60	H	Pass
3346	-46.19	-13	-33.19	-71.39	-55.77	0.87	12.60	H	Pass

Band :	GSM850 for CH189					Temperature :	23~25°C		
Test Mode :	GPRS class 8 Link (GMSK)					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Vertical		
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
1672	-48.05	-13	-35.05	-64.28	-54.73	0.57	9.40	V	Pass
2510	-45.63	-13	-32.63	-69.42	-53.33	0.75	10.60	V	Pass
3346	-42.07	-13	-29.07	-71.18	-51.65	0.87	12.60	V	Pass



Band :	GSM850 for CH251	Temperature :	23~25°C						
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1697.6	-46.87	-13	-33.87	-62.90	-53.55	0.57	9.40	H	Pass
2546.4	-47.81	-13	-34.81	-69.24	-55.51	0.75	10.60	H	Pass
3395.2	-44.28	-13	-31.28	-70.21	-53.86	0.87	12.60	H	Pass

Band :	GSM850 for CH251	Temperature :	23~25°C						
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
1697.6	-54.31	-13	-41.31	-68.94	-60.99	0.57	9.40	V	Pass
2546.4	-46.38	-13	-33.38	-69.88	-54.08	0.75	10.60	V	Pass
3395.2	-42.00	-13	-29.00	-71.12	-51.58	0.87	12.60	V	Pass

Band :	GSM1900 for CH512	Temperature :	23~25°C						
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3700.4	-44.45	-13	-31.45	-73.09	-56.18	0.87	12.60	H	Pass
5550.6	-43.62	-13	-30.62	-73.94	-55.65	1.07	13.10	H	Pass
7400.8	-44.17	-13	-31.17	-75.83	-53.60	1.87	11.30	H	Pass

Band :	GSM1900 for CH512	Temperature :	23~25°C						
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain	(H/V)	
(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dBi)		
3700.4	-43.86	-13	-30.86	-72.31	-55.59	0.87	12.6	V	Pass
5550.6	-42.66	-13	-29.66	-73.79	-54.69	1.07	13.1	V	Pass
7400.8	-42.95	-13	-29.95	-74.84	-52.38	1.87	11.3	V	Pass



Band :	GSM1900 for CH661					Temperature :	23~25°C		
Test Mode :	GSM Link (GMSK)					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Horizontal		
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3760	-44.68	-13	-31.68	-73.32	-56.41	0.87	12.60	H	Pass
5640	-42.50	-13	-29.50	-72.82	-54.53	1.07	13.10	H	Pass
7520	-43.99	-13	-30.99	-75.65	-53.42	1.87	11.30	H	Pass

Band :	GSM1900 for CH661					Temperature :	23~25°C		
Test Mode :	GSM Link (GMSK)					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Vertical		
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3760	-44.59	-13	-31.59	-73.04	-56.32	0.87	12.6	V	Pass
5640	-41.79	-13	-28.79	-72.92	-53.82	1.07	13.1	V	Pass
7520	-42.97	-13	-29.97	-74.86	-52.40	1.87	11.3	V	Pass



Band :	GSM1900 for CH810	Temperature :	23~25°C						
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3815.2	-44.52	-13	-31.52	-73.16	-56.25	0.87	12.60	H	Pass
5722.8	-43.01	-13	-30.01	-73.33	-55.04	1.07	13.10	H	Pass
7630.4	-43.97	-13	-30.97	-75.63	-53.40	1.87	11.30	H	Pass

Band :	GSM1900 for CH810	Temperature :	23~25°C						
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain	(H/V)	
(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dBi)		
3815.2	-44.07	-13	-31.07	-72.52	-55.80	0.87	12.6	V	Pass
5722.8	-41.93	-13	-28.93	-73.06	-53.96	1.07	13.1	V	Pass
7630.4	-43.05	-13	-30.05	-74.94	-52.48	1.87	11.3	V	Pass



Band :	GSM1900 for CH512	Temperature :	23~25°C						
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3700.4	-43.52	-13	-30.52	-72.16	-55.25	0.87	12.60	H	Pass
5550.6	-43.29	-13	-30.29	-73.61	-55.32	1.07	13.10	H	Pass
7400.8	-43.98	-13	-30.98	-75.64	-53.41	1.87	11.30	H	Pass

Band :	GSM1900 for CH512	Temperature :	23~25°C						
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain	(H/V)	
(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dBi)		
3700.4	-43.75	-13	-30.75	-72.2	-55.48	0.87	12.6	V	Pass
5550.6	-42.79	-13	-29.79	-73.92	-54.82	1.07	13.1	V	Pass
7400.8	-43.44	-13	-30.44	-75.33	-52.87	1.87	11.3	V	Pass



Band :	GSM1900 for CH661					Temperature :	23~25°C		
Test Mode :	GPRS class 8 Link (GMSK)					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Horizontal		
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-44.72	-13	-31.72	-73.36	-56.45	0.87	12.60	H	Pass
5640	-43.19	-13	-30.19	-73.51	-55.22	1.07	13.10	H	Pass
7520	-43.92	-13	-30.92	-75.58	-53.35	1.87	11.30	H	Pass

Band :	GSM1900 for CH661					Temperature :	23~25°C		
Test Mode :	GPRS class 8 Link (GMSK)					Relative Humidity :	48~52%		
Test Engineer :	Kaer Huang					Polarization :	Vertical		
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3760	-44.53	-13	-31.53	-72.98	-56.26	0.87	12.6	V	Pass
5640	-41.63	-13	-28.63	-72.76	-53.66	1.07	13.1	V	Pass
7520	-43.30	-13	-30.30	-75.19	-52.73	1.87	11.3	V	Pass



Band :	GSM1900 for CH810	Temperature :	23~25°C						
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3819.6	-44.96	-13	-31.96	-73.60	-56.69	0.87	12.60	H	Pass
5729.4	-42.58	-13	-29.58	-72.90	-54.61	1.07	13.10	H	Pass
7639.2	-44.07	-13	-31.07	-75.73	-53.50	1.87	11.30	H	Pass

Band :	GSM1900 for CH810	Temperature :	23~25°C						
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions below 1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain	(H/V)	
(dB)	(dBm)	(dB)	(dBm)	(dBm)	(dBm)	(dB)	(dBi)		
3819.6	-45.16	-13	-32.16	-73.61	-56.89	0.87	12.6	V	Pass
5729.4	-41.45	-13	-28.45	-72.58	-53.48	1.07	13.1	V	Pass
7639.2	-43.04	-13	-30.04	-74.93	-52.47	1.87	11.3	V	Pass



Band :	WCDMA Band V for CH4132	Temperature :	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain	(H/V)	
(dB)			(dB)	(dBm)	(dBm)	(dB)	(dBi)		
1652.8	-54.03	-13	-41.03	-68.24	-60.71	0.57	9.40	H	Pass
2479.2	-47.55	-13	-34.55	-69.02	-55.25	0.75	10.60	H	Pass
3305.6	-45.00	-13	-32.00	-71.19	-54.58	0.87	12.60	H	Pass

Band :	WCDMA Band V for CH4132	Temperature :	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1652.8	-54.05	-13	-41.05	-68.62	-60.73	0.57	9.40	V	Pass
2479.2	-43.95	-13	-30.95	-69.05	-51.65	0.75	10.60	V	Pass
3305.6	-41.21	-13	-28.21	-71.01	-50.79	0.87	12.60	V	Pass



Band :	WCDMA Band V for CH4182	Temperature :	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
1672	-54.00	-13	-41.00	-68.21	-60.68	0.57	9.40	H	Pass
2510	-47.44	-13	-34.44	-68.92	-55.14	0.75	10.60	H	Pass
3346	-46.19	-13	-33.19	-71.39	-55.77	0.87	12.60	H	Pass

Band :	WCDMA Band V for CH4182	Temperature :	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain	(H/V)	
(dB)			(dB)	(dBm)	(dBm)	(dB)	(dBi)		
1672	-53.42	-13	-40.42	-68.28	-60.10	0.57	9.40	V	Pass
2510	-46.15	-13	-33.15	-69.67	-53.85	0.75	10.60	V	Pass
3346	-42.06	-13	-29.06	-71.17	-51.64	0.87	12.60	V	Pass



Band :	WCDMA Band V for CH4233	Temperature :	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
1693.2	-54.66	-13	-41.66	-68.87	-61.34	0.57	9.40	H	Pass
2539.8	-48.75	-13	-35.75	-69.79	-56.45	0.75	10.60	H	Pass
3386.4	-44.96	-13	-31.96	-70.89	-54.54	0.87	12.60	H	Pass

Band :	WCDMA Band V for CH4233	Temperature :	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1693.2	-53.04	-13	-40.04	-68.10	-59.72	0.57	9.40	V	Pass
2539.8	-43.77	-13	-30.77	-68.87	-51.47	0.75	10.60	V	Pass
3386.4	-42.08	-13	-29.08	-71.19	-51.66	0.87	12.60	V	Pass



Band :	WCDMA Band II for CH9262	Temperature :	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain	(H/V)	
(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dBi)		
3704.8	-44.26	-13	-31.26	-72.90	-55.99	0.87	12.60	H	Pass
5557.2	-43.13	-13	-30.13	-73.45	-55.16	1.07	13.10	H	Pass
7409.6	-42.29	-13	-29.29	-73.95	-51.72	1.87	11.30	H	Pass

Band :	WCDMA Band II for CH9262	Temperature :	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over Limit	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gain (dBi)	(H/V)	
3704.8	-45.03	-13	-32.03	-73.48	-56.76	0.87	12.6	V	Pass
5557.2	-41.55	-13	-28.55	-72.68	-53.58	1.07	13.1	V	Pass
7409.6	-43.78	-13	-30.78	-75.67	-53.21	1.87	11.3	V	Pass



Band :	WCDMA Band II for CH9400	Temperature :	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-44.70	-13	-31.70	-73.34	-56.43	0.87	12.60	H	Pass
5640	-42.81	-13	-29.81	-73.13	-54.84	1.07	13.10	H	Pass
7520	-44.13	-13	-31.13	-75.79	-53.56	1.87	11.30	H	Pass

Band :	WCDMA Band II for CH9400	Temperature :	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain		
			(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-44.55	-13	-31.55	-73	-56.28	0.87	12.6	V	Pass
5640	-41.98	-13	-28.98	-73.11	-54.01	1.07	13.1	V	Pass
7520	-43.00	-13	-30.00	-74.89	-52.43	1.87	11.3	V	Pass

Band :	WCDMA Band II for CH9538	Temperature :	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Horizontal						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain	(H/V)	
(dB)	(dB)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dBi)		
3815.2	-44.39	-13	-31.39	-73.03	-56.12	0.87	12.60	H	Pass
5722.8	-42.30	-13	-29.30	-72.62	-54.33	1.07	13.10	H	Pass
7630.4	-43.07	-13	-30.07	-74.73	-52.50	1.87	11.30	H	Pass

Band :	WCDMA Band II for CH9538	Temperature :	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%						
Test Engineer :	Kaer Huang	Polarization :	Vertical						
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
(MHz)	(dBm)	(dBm)	Limit	Reading	Power	loss	Gain		
			(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3815.2	-44.45	-13	-31.45	-72.9	-56.18	0.87	12.6	V	Pass
5722.8	-41.54	-13	-28.54	-72.67	-53.57	1.07	13.1	V	Pass
7630.4	-43.10	-13	-30.10	-74.99	-52.53	1.87	11.3	V	Pass



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Jan. 28, 2015	Apr. 08, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	Mar. 27, 2015	May 25, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz;Ma x 30dBm	Sep. 25, 2014	Mar. 27, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Mar. 27, 2015	Sep. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Mar. 27, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101073	18GHz~40GHz	Jun. 09, 2014	Mar. 27, 2015	Jun. 08, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Mar. 27, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	MITEQ	AMF-7D-00 101800-30-	1707137	1GHz~18GHz	May 08, 2014	Mar. 27, 2015	May 07, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Mar. 27, 2015	May 07, 2015	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Mar. 27, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 27, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 27, 2015	NCR	Radiation (03CH01-SZ)



5 Uncertainty of Evaluation

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

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