



CONFORMANCE TEST REPORT FOR FCC 47 CFR, Part 15 Subpart B

Report No.: 06-12-MAS-194-01

Client: Nokia Inc.

Product: CDMA 2000 1xRTT Mobile Phone

Trade name RM-219 Model No.: 7088

FCC ID: QMNRM-219

Manufacturer/supplier: Foxconn International Holdings Limited

Date test item received: 2006/12/19
Date test campaign completed: 2007/01/26
Date of issue: 2007/02/02

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Total number of pages of this test report: 26 pages

Total number of pages of photos: External photos 6 pages

Setup photos 4 pages

Test Engineer Checked By Approved By

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Data of issue: 2007/02/02 Version / Status: 1.0 Approved



Client : Nokia Inc.

Address : 12278 Scripps Summit Dr. San Diego CA 92131 USA

Manufacturer : Foxconn International Holdings Limited

Address : No.2, 2nd DongHuan Road, 10th YouSong Industrial District, Longhua

Town, Baoan, Shenzhen, GuangDong, China

EUT : CDMA 2000 1xRTT Mobile Phone

Trade name : RM-219

Model No. : 7088

Power Source : Adapter : Nokia / AC-3C

Input: 100-240Vac, 50-60Hz, 65mA

Output: DC 5V, 350mA

Regulations applied : FCC 47 CFR, Part 15 Subpart B (2006)

Test Specifications : Class B

Version / Status : 1.0 Approved

Change History:

Version	Date	Status	Comments
0.1	16-Jan-07	Draft	
0.2	26-Jan-07	Draft	
0.3	29-Jan-07	Draft	
1.0	02-Feb-07	Approved	

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- ② ISO/IEC 17025: BSMI, CNLA, DGT, NVLAP, CCIBLAC, UL, Compliance
- 3 Filing: FCC, Industry Canada, VCCI
- (4) MRA: Australia, Hong Kong, New Zealand, Singapore, USA, Japan, Korea, China, APLAC through CNLA
- ⑤ FCC Registration Number: 90588, 91094, 91095
- © Canada IC Registration Number: 2949-1, 2949-2

nvlað

NVLAP Lab Code 200133-0

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1. GENERAL INFORMATION

1.1 Product Description

a) Type of EUT : CDMA 2000 1xRTT Mobile Phone

b) Trade Name : RM-219 c) Model No. : 7088 d) Hardware : 2500

e) Software : FW UNC MS02520 B0612

f) ESN : 0260902137

g) Frequency Ragne : Tx: 824-849 MHz Rx: 869-894 MHz

h) Emission Designator : 1M41F9W i) Antenna Type : Fixed Internal

j) Modulation Type : QPSK

1.2 Characteristics of Device

CDMA2000 800MHz Cellular Phone, offering data rates up to 153 kbs on the forward and reverse links, 1xRTT, VGA 300K, TFT 65K 128X160 Resolution 1.8".

1.3 Test Methodology

Both conducted and radiated emissions were performed according to the procedures in ANSI C63.4 (2003).

1.4 Test Facility

The Semi-Anechoic Chamber and conducted measurement facility used to collect the radiated and conducted data are located inside the Building at No.8, Lane 29, Wen-ming Road, Lo-shan Tsun, Kweishan Hsiang, Taoyuan, Taiwan, R.O.C.

This site has been accreditation as a FCC filing site.

1.5 Test Summary

Test Performed	Reference	Result
Radiated Emission	FCC § 15.107	Complies
Conducted Emission	FCC § 15.109	Complies

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2. PROVISIONS APPLICABLE

2.1 Definition

Unintentional radiator:

A device that intentionally generates radio frequency energy for use within the device, or that sends radio frequency signals by conduction to associated equipment via connecting wiring, but which is not intended to emit RF energy by radiation or induction.

Class B Digital Device:

A digital device which is marketed for use in a residential environment notwithstanding use in a commercial, business and industrial environment. Examples of such devices include, but are not limited to, personal computers, calculators, and similar electronic devices that are marketed for use by the general public.

Note: A manufacturer may also qualify a device intended to be marketed in a commercial, business, or industrial environment as a Class B digital device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B Digital Device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B Digital Device, Regardless of its intended use.

2.2 Requirement for Compliance

(1) Conducted Emission Requirement

For unintentional device, according to FCC§15.107(a) Line Conducted Emission Limits class B is as following:

Frequency MHz	Quasi Peak dB μ V	Average dB μ V
0.15 - 0.5	66-56	56-46
0.5 - 5.0	56	46
5.0 - 30.0	60	50

For unintentional device, according to **CISPR 22** Line Conducted Emission Limits class B is as following:

Frequency MHz	Quasi Peak dB μ V	Average dB μ V
0.15 - 0.5	66-56	56-46
0.5 - 5.0	56	46
5.0 - 30.0	60	50

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For unintentional device, according to **AS/NZS 3548** Line Conducted Emission Limits class B is as following:

Frequency MHz	Quasi Peak dB μ V	Average dB μ V
0.15 - 0.5	66-56	56-46
0.5 - 5.0	56	46
5.0 - 30.0	60	50

(2) Radiated Emission Requirement

For unintentional device, according to FCC §15.109(a), the field strength of radiated emissions from unintentional except for class A digital device radiators at a distance of 3 meters shall not exceed the following values:

Frequency MHz	Distance Meters	Radiated μV/m	Radiated dB μ V/m
30 - 88	3	100	40.0
88 - 216	3	150	43.5
216 - 960	3	200	46.0
above 960	3	500	54.0

For unintentional device, according to **CISPR 22** Radiated Emission Limits class B is as following:

Frequency MHz	Distance Meters	Radiated dB μ V/m	
30 to 230	10	30	
230 to 1000	10	37	

For unintentional device, according to **AS/ NZS 3548** Radiated Emission Limits class B is as following:

Frequency MHz	Distance Meters	Radiated dB μ V/m
30 to 230	10	30
230 to 1000	10	37

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2.3 Labelling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any

interference received, including interference that may cause undesired operation.

2.4 User Information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance

could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the

following or similar statement, placed in a prominent location in the text of the manual:

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device,

pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection

against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used

in accordance with the instruction, may cause harmful interference to radio communication. However,

there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be

determined by turning the equipment off and on, the user is encouraged to try to correct the

interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is

connected.

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-- Consult the dealer or an experienced radio / TV technician for help.

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3. SYSTEM TEST CONFIGURATION

3.1 Devices for Tested System

Description	Manufacturer	Model No.	I/O Cable
CDMA 2000 1xRTT Mobile Phone	Foxconn International Holdings Limited	7088	
Adapter	Nokia	AC-3C	1.8m*1, Unshielded Power Line
Headset	Nokia	HS-9	1.2m*1, Unshielded Signal Line
Battery	Nokia	BL-4B	
USB cable	Nokia	DKE-2	0.8m*1, Unshielded Signal Line
Keyboard	IBM	KB-9910	2.0m*1, Unshielded Signal Line
Mouse	IBM	M-SAU- IBM6	1.8m*1, Unshielded Signal Line
Notebook PC	ASUS	S1300	3.3m*1, Unshielded Power Line

3.2 Deviation Statement

(If any deviation from additions to or exclusions from test method must be stated)

N/A

3.3 Modification Record

N/A

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4. RADIATED EMISSION MEASUREMENT

4.1 Applicable Standard

For unintentional radiator digital devices, the radiated emission shall comply with §15.109(a). And according to §15.109 (g), as an alternative to the radiated emission limits is CISPR 22.

4.2 Measurement Procedure

- 1. Setup the configuration per figure 1 and figure 2.
- 2. For emission frequencies measured, a pre-scan is performed in a semi-anechoic chamber to determine the accurate frequencies of higher emissions then each selected frequency is precisely measured.
- 3. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that the highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.
- 4. Repeat step 3 until all frequencies need to be measured were complete.
- 5. Repeat step 4 with search antenna in vertical polarized orientations.
- 6. Check the frequency of the highest emission with varying the placement of cables associated with EUT to obtain the worse case and record the result.

Note: Frequency to be investigated up to the 5th harmonic of the highest clock or frequency used.

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Antenna Tower

Search
Antenna

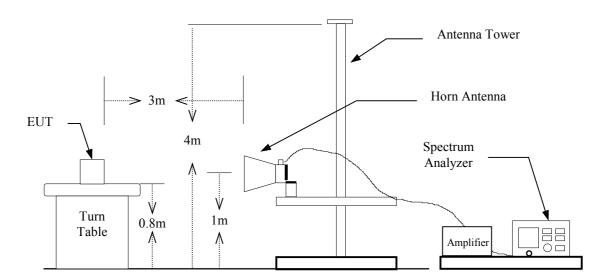
Antenna

Turn
Table

Ground Plane

Figure 1: Frequencies measured below 1 GHz configuration

Figure 2: Frequencies measured above 1 GHz configuration

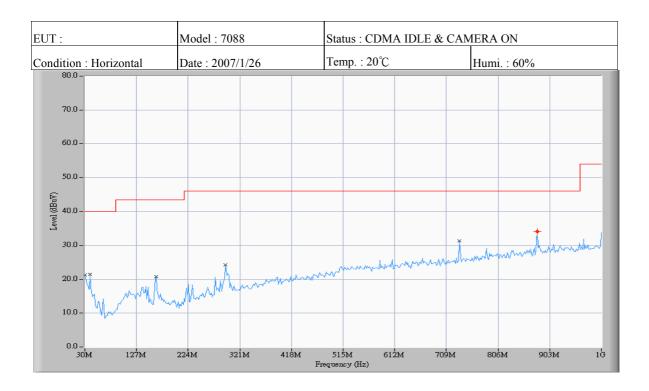


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4.3 Radiated Emission Data

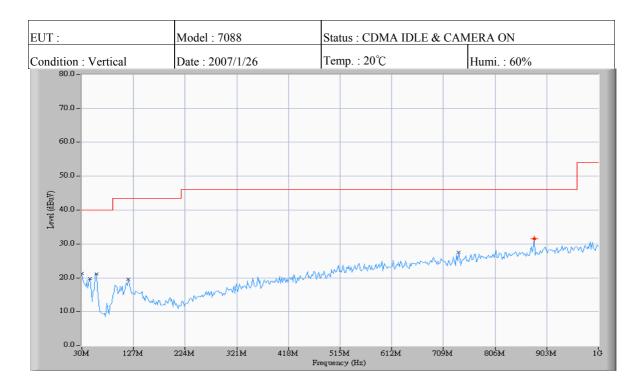
4.3.1 Operation Mode: CDMA IDLE & CAMERA ON



	Freq (MHz)	QP Level (dBuV)	Factor (dB/m)	QP Result (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dB)
1	30.000	8.2	13.1	21.3	40.0	-18.7
2	39.719	8.4	13.0	21.4	40.0	-18.6
3	164.128	5.8	15.0	20.8	43.5	-22.7
4	294.369	8.0	16.3	24.3	46.0	-21.7
5	733.687	5.3	26.1	31.4	46.0	-14.6
6	879.479	5.6	28.5	34.1	46.0	-11.9

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	Freq (MHz)	QP Level (dBuV)	Factor (dB/m)	QP Result (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dB)
1	30.000	8.2	13.1	21.3	40.0	-18.7
2	45.551	6.5	13.2	19.7	40.0	-20.3
3	57.214	8.3	12.9	21.2	40.0	-18.8
4	117.475	6.1	13.4	19.5	43.5	-24.0
5	737.575	1.3	26.2	27.5	46.0	-18.5
6	879.479	3.1	28.5	31.6	46.0	-14.4

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Test Date : 2007/1/26 Temperature : 20°C Humidity: 60%

Frequency	Reading (dBuV) H V			Factor (dB)		t @3m V/m) Ave		@3m V/m) Ave.	
(MHz)	Peak	Ave	Peak	Ave	Corr.	(H/V I	_	· Gant	7 0.
1000.000	52.1		54.4		-15.0	39.4		74.0	54.0
1032.051	52.1				-15.0	37.1		74.0	54.0
1666.667			54.0		-11.0	43.0		74.0	54.0
1935.897			52.7		-8.7	44		74.0	54.0

- Note: 1. Remark "---" means that the emissions level is too low to be measured.

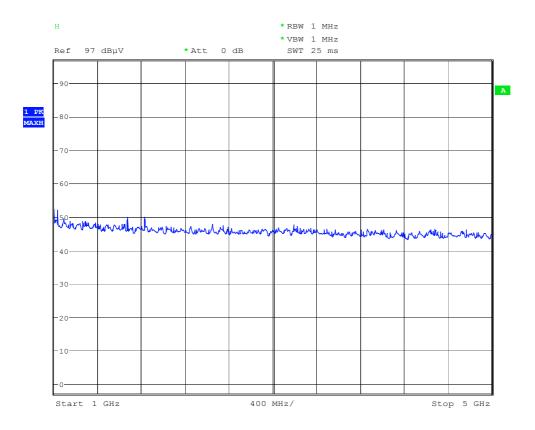
 2. The radiation emissions have been measured to beyond the 5th harmonic of the fundamental frequency and show the significant frequencies, other means the value is too low to be detected.
 - 3. The estimated measurement uncertainty of the result measurement is

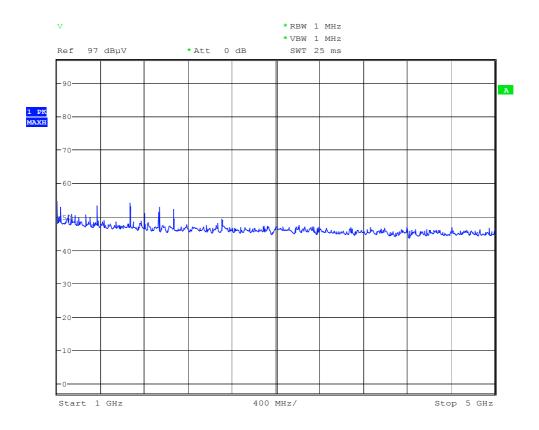
 ± 4.6 dB (30MHz $\leq f$ <300MHz).

 ± 4.4 dB (300MHz \leq f<1000MHz).

 ± 4.1 dB (1GHz $\leq f \leq 18$ GHz).

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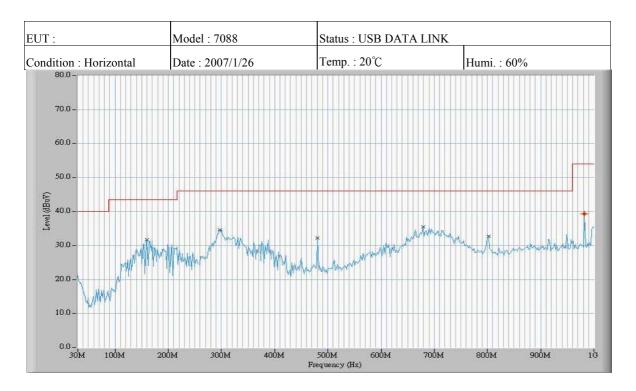


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4.3.2 Operation Mode: USB DATA LINK

Continuous data transfer between the phone and PC.

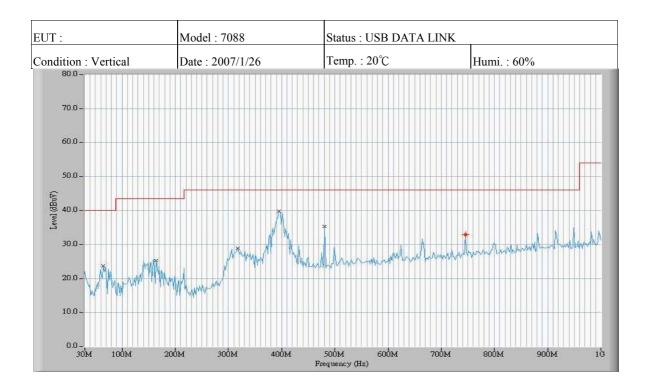


	Freq (MHz)	QP Level (dBuV)	Factor (dB/m)	QP Result (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dB)
1	160.240	16.8	14.8	31.6	43.5	-11.9
2	296.313	18.4	16.3	34.7	46.0	-11.3
3	480.982	10.8	21.4	32.2	46.0	-13.8
4	679.259	10.0	25.4	35.4	46.0	-10.6
5	801.723	5.4	27.4	32.8	46.0	-13.2
6	982.505	9.2	30.1	39.3	54.0	-14.7

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	Freq (MHz)	QP Level	Factor (dB/m)	QP Result	QP Limit	QP Margin
-		(dBuV)		(dBuV/m)	(dBuV/m)	(dB)
1	64.990	11.7	12.0	23.7	40.0	-16.3
2	164.128	10.3	15.0	25.3	43.5	-18.2
3	317.695	11.8	17.1	28.9	46.0	-17.1
4	395.451	20.8	19.0	39.8	46.0	-6.2
5	480.982	14.0	21.4	35.4	46.0	-10.6
6	745.351	6.6	26.3	32.9	46.0	-13.1

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Test Date : 2007/1/26 Temperature : 20°C Humidity: 60%

Frequency	Reading (dBuV) H V			Factor (dB)		: @3m V/m) Ave	Limit (dBu Peak	@3m V/m) Ave.	
(MHz)	Peak	Ave	Peak	Ave	Corr.	(H/V I	_		
1333.333	53.1		53.8		-12.3	41.5		74.0	54.0
1666.667	-		54.0		-11.0	43.0		74.0	54.0
1673.077			55.9		-11.0	44.9		74.0	54.0
2064.102	51.5				-8.7	42.8		74.0	54.0

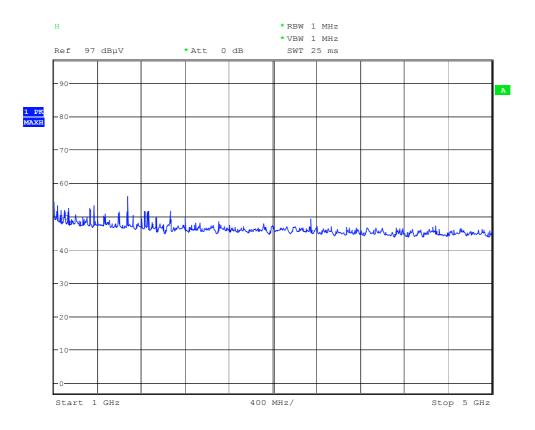
- Note: 1. Remark "---" means that the emissions level is too low to be measured.
 - 2. The radiation emissions have been measured to beyond the 5th harmonic of the fundamental frequency and show the significant frequencies, other means the value is too low to be detected.
 - 3. The estimated measurement uncertainty of the result measurement is

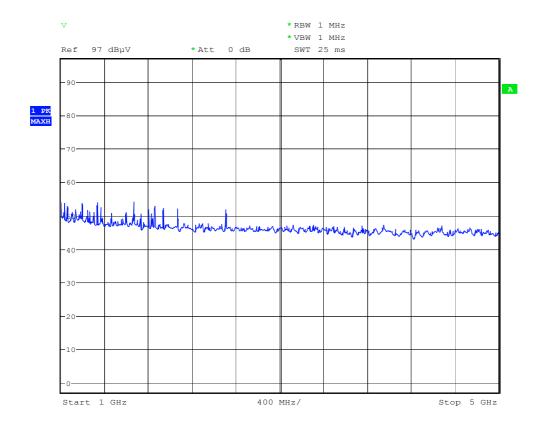
 ± 4.6 dB (30MHz $\leq f$ <300MHz).

 ± 4.4 dB (300MHz $\leq f < 1000$ MHz).

 ± 4.1 dB (1GHz $\leq f \leq 18$ GHz).

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4.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor, High Pass Filter Loss and Cable Loss, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

where

Corrected Factor = Antenna Factor + Cable Loss - Amplifier Gain

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4.5 Radiated Measuring Instrument

The following instrument are used for radiated emissions measurement:

Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	
EMI Receiver	MI Receiver R&S ESIB		100328	May 25, 2007	
BiLog Antenna	Schaffner	CBL 6112B	2927	Jun. 11, 2007	
Horn Antenna	EMCO	3115	9107-3729	Jun. 06, 2007	
PRE-Amplifier	Agilent	8449B		Sep. 17, 2007	
Spectrum Analyzer	R&S	FSU46 13040904-001		Oct. 31, 2007	
Spectrum Analyzer	Agilent	8564EC		Sep. 22, 2007	

Note: The standards used to perform this calibration are traceable to NML/ROC and NIST/USA.

Measuring instrument setup in measured frequency band when specified detector function is used:

Frequency Band (MHz)	Instrument	Function	Resolution Bandwidth	Video Bandwidth	
30 to 1000	RF Test Receiver	Quasi-Peak	120 kHz	300 kHz	
above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz	

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5. CONDUCTED EMISSION MEASUREMENT

5.1 Applicable Standard

For unintentional digital devices, Line Conducted Emission Limits are in accordance to §15.107(a). And according to §15.107(e), an alternative to the conducted limits is CISPR 22.

5.2 Measurement Procedure

- 1. Setup the configuration per figure 3.
- 2. A preliminary scan with a spectrum monitor is performed to identify the frequency of emission that has the highest amplitude relative to the limit by operating the EUT in selected modes of operation, typical cable positions, and with a typical system configuration.
- 3. Record the 4 to 8 highest emissions relative to the limit.
- 4. Measure each frequency obtained from step 3 by a test receiver set on quasi peak detector function, and then record the accuracy frequency and emission level. If all emissions measured in the specified band are attenuated more than 20 dB from the limit, this step would be ignored, and the peak detector function would be used.
- 5. Confirm the highest emissions with variation of the EUT cable configuration and record the final data.
- 6. Repeat all above procedures on measuring each operation mode of EUT.

Vertical Reference
Ground Plane

Test Receiver

EUT

Reference Ground Plane

Figure 3: Conducted emissions measurement configuration

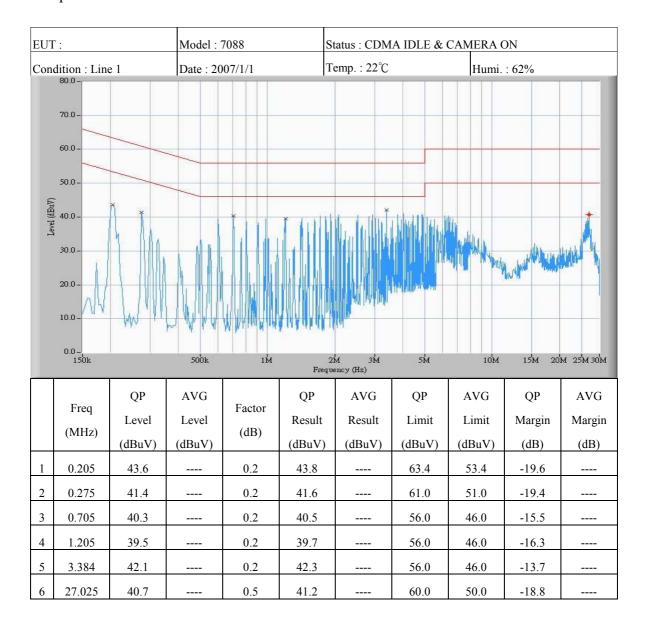
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5.3 Conducted Emission Data

5.3.1 Operation Mode: CDMA IDLE & CAMERA ON

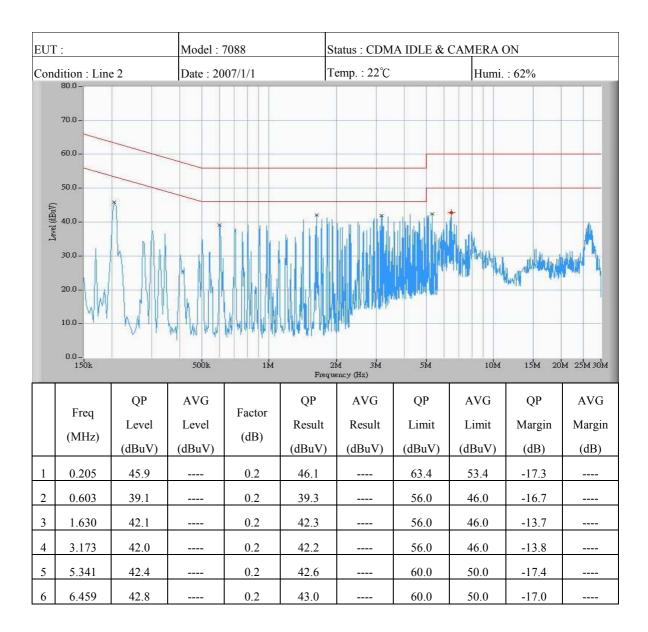


Note:

- 1. Place of measurement: EMC LAB. of the ETC.
- 2. The full frequency range scanning test data is shown in next two pages.
- 3. "***" means the value was too low to be measured.
- 4. If the data table appeared symbol of "----" means the Q.P. value is under the limit of AVG. so, the AVG. value doesn't need to be measured.
- 5. The estimated measurement uncertainty of the result measurement is ±2.5dB.

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Note:

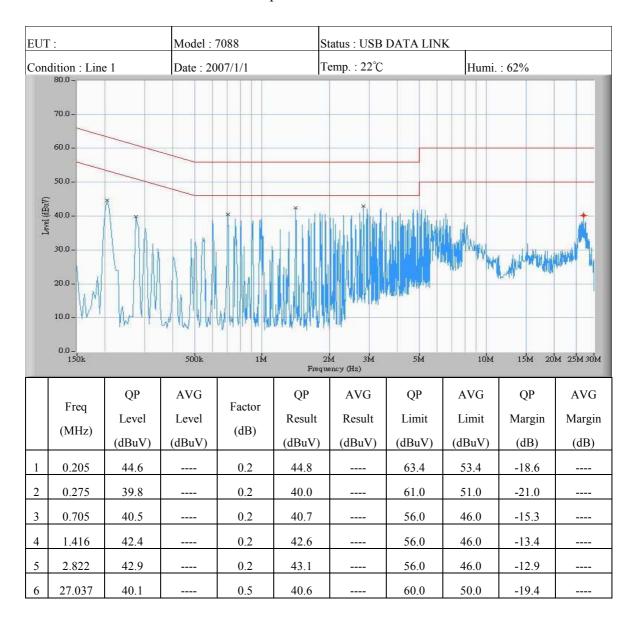
- 1. Place of measurement: <u>EMC LAB. of the ETC.</u>
- 2. The full frequency range scanning test data is shown in next two pages.
- 3. "***" means the value was too low to be measured.
- 4. If the data table appeared symbol of "----" means the Q.P. value is under the limit of AVG. so, the AVG. value doesn't need to be measured.
- 5. The estimated measurement uncertainty of the result measurement is ± 2.5 dB.

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5.3.2 Operation Mode: USB DATA LINK

Continuous data transfer between the phone and PC.

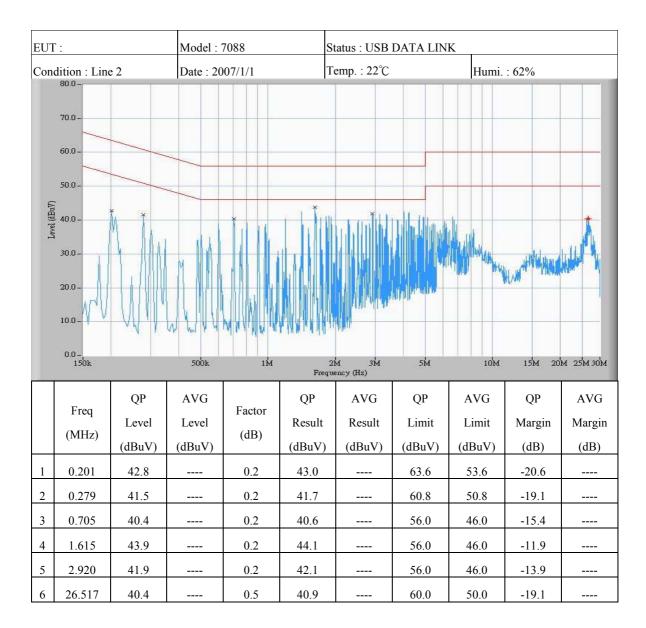


Note:

- 1. Place of measurement: EMC LAB. of the ETC.
- 2. The full frequency range scanning test data is shown in next two pages.
- 3. "***" means the value was too low to be measured.
- 4. If the data table appeared symbol of "----" means the Q.P. value is under the limit of AVG. so, the AVG. value doesn't need to be measured.
- 5. The estimated measurement uncertainty of the result measurement is ± 2.5 dB.

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Note:

- 1. Place of measurement: <u>EMC LAB. of the ETC.</u>
- 2. The full frequency range scanning test data is shown in next two pages.
- 3. "***" means the value was too low to be measured.
- 4. If the data table appeared symbol of "----" means the Q.P. value is under the limit of AVG. so, the AVG. value doesn't need to be measured.
- 5. The estimated measurement uncertainty of the result measurement is ± 2.5 dB.

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5.4 Result Data Calculation

The result data is calculated by adding the LISN Factor to the measured reading. The basic equation with a sample calculation is as follows:

RESULT = READING + LISN FACTOR

5.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test.

Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	
Test Receiver	R&S	ESCS30	13054409-001	May 19, 2007	
LISN	TELEMETER	NNB-2/16Z	13057708-002	Apr. 18, 2007	
LISN	TELEMETER	NNB-2/16Z	13057708-001	Mar. 30, 2007	

Note: The standards used to perform this calibration are traceable to NML/ROC and NIST/USA.

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