FCC Part 15
EMI TEST REPORT

of

E.U.T. : 2.4GHz Analog Cordless Telephone
FCC ID : G9H2-7980A
EX27980XXX-A
MODEL : 27980XXX-A

for

APPLICANT : Atlinks USA, Inc.

ADDRESS : 101 West 103rd Street Indianapolis, IN 46290-1102 USA

Test Performed by

ELECTRONICS TESTING CENTER, TAIWAN
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Report Number : ET94R-11-099-03

TEST REPORT CERTIFICATION

Applicant	:	Atlinks USA, Inc. 101 West 103rd Street Indianapolis, IN 46290-1102 USA
Manufacturer	:	Global Plastic Electronic Factory TUTANG MANAGER DISTRICT CHANG PING ZHEN DONGGUAN GUANGDONG CHINA
Description of EUT	:	
a) Type of EUT	:	2.4 GHz Analog Cordless Telephone
b) Trade Name	:	GE
c) Model No.	:	27980XXX-A ; EX27980XXX-A
d) Power Supply	:	I/P: 120VAC 60Hz 12W; O/P: 9.0VDC 500mA I/P: 230VAC 50Hz ; O/P: 9.0VDC 500mA
e) Frequency Range	:	2400.300MHz-2478.900MHz
Regulation Applied	:	FCC Rules and Regulations Part 15 Subpart C (2005)

I HEREBY CERTIFY THAT: The data shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003), and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Note: 1. The result of the testing report relate only to the item tested.
2. The testing report shall not be reproduced expect in full, without the written approval of ETC.

Issued Date : Dec. 05, 2005

Test Engineer : Kevin Lee
(Kevin Lee)

Approve & Authorized Signer : Will Yauo
Will Yauo, Manager
EMC Dept. II of ELECTRONICS
TESTING CENTER, TAIWAN

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1 GENERAL INFORMATION

1.1 Product Description

a)	Type of EUT	:	2.4 GHz Analog Cordless Telephone
b)	Trade Name	:	GE
c)	Model No.	:	27980XXX-A ; EX27980XXX-A
d)	Power Supply	:	I/P: 120VAC 60Hz 12W ; O/P: 9.0VDC 500mA
			I/P: 230VAC 50Hz ; O/P: 9.0VDC 500mA

1.2 Characteristics of Device

This device is the base unit of a 30-channel 2.4GHz Analog Cordless Telephone. The connection between base and handset unit employs 2400-2478.900 MHz frequency bands. The base unit transmits 2400.300-2409.0 MHz frequency signal to handset unit. The handset unit transmits 2470.200-2478.900 MHz frequency signal to base unit.

Note: The base and handset use 30 channels.

Base		**handset**	
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
01	2400.3	01	2470.2
02	2400.6	02	2470.5
03	2400.9	03	2470.8
04	2401.2	04	2471.1
05	2401.5	05	2471.4
06	2401.8	06	2471.7
07	2402.1	07	2472.0
08	2402.4	08	2472.3
09	2402.7	09	2472.6
10	2403.0	10	2472.9
11	2403.3	11	2473.2
12	2403.6	12	2473.5
13	2403.9	13	2473.8
14	2404.2	14	2474.1
15	2404.5	15	2474.4
16	2404.8	16	2474.7
17	2405.1	17	2475.0
18	2405.4	18	2475.3
19	2405.7	19	2475.6
20	2406.0	20	2475.9
21	2406.3	21	2476.2
22	2406.6	22	2476.5
23	2406.9	23	2476.8
24	2407.2	24	2477.1
25	2407.5	25	2477.4
26	2407.8	26	2477.7
27	2408.1	27	2478.0
28	2408.4	28	2478.3
29	2408.7	29	2478.6
30	2409.0	30	2478.9

1.3 Test Methodology

For 2.4 GHz Analog Cordless Telephone, both conducted and radiated emissions were performed according to the procedures illustrated in ANSI C63.4 (2003). Other required measurements were illustrated in separate sections of this test report for details.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the roof top of Building at No.34, Lin 5, Ding Fu Tsun, Linkou Hsiang, Taipei Hsien, Taiwan, R.O.C.

This site has been fully described in a report submitted to your office, and accepted in a letter dated Dec. 03, 2002.

2 PROVISIONS APPLICABLE

2.1 Definition

Unintentional radiator:

A device that intentionally generates and 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 A Digital Device:

A digital device which is marketed for use in commercial or business environment; exclusive of a device which is market for use by the general public, or which is intended to be used in the home.

Class B Digital Device :

A digital device which is marketed for use in a residential environment notwithstanding use in a commercial, business of industrial environment. Example of such devices that are marketed for 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.

Intentional radiator:

A device that intentionally generates and emits radio frequency energy by radiation or induction.

2.2 Requirement for Compliance

(1) Conducted Emission Requirement

Except for Class A digital devices, for equpment 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 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency MHz	**Quasi Peak dBµV**	**Average dBµV**
0.15 - 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

* Decreases with the logarithm of the frequency

(2) Radiated Emission Requirement

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

Frequency MHz	Distance Meters	Radiated dBµV/m	Radiated µV/m
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

For intentional radiator device, per §15.249(a), the field strength of emissions shall comply with the following :

Frequency MHz	**Distance Meters**	**Fundamental**		**Harmonic**	
		dB μ V/m	**mV/m**	**dB μ V/m**	**μ V/m**
902 - 928	3	94	50	54	500
2400 - 2483.5	3	94	50	54	500
5725 - 5875	3	94	50	54	500
24000 - 24250	3	108	250	68	2500

In accordance with §15.249(d), limits shown in above table are based on average limits for frequencies above 1000 MHz, and frequencies below 1000 MHz are based on quasi peak. However, the peak field strength of any emission shall not exceed the maximum permitted average limits by more than 20 dB.

(3) Spurious in Out Band Requirement

For intentional device, according to §15.249 (c), emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of fundamental or to the general radiated emission limits in §15.209.

(4) Antenna Requirement

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

2.3 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below :

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.15
0.495 - 0.505 **	16.69475 - 16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425 - 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475 - 156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3360-4400	Above 38.6
13.36-13.41			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

2.4 Labeling 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.

2.5 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.

The Federal Communications Commission Radio Frequency Interference Statement includes the following paragraph.

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.

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

3 SYSTEM TEST CONFIGURATION

3.1 Justification

All measurement were intentional to maximum the emissions from EUT by varying the connection cables, therefore, the test result is sure to meet the applicable requirement.

3.2 Devices for Tested System

Device	Manufacture	Model / FCC ID.	Description
2.4 GHz Analog Cordless Telephone*	Global Plastic Electronic Factory	27980XXX-A ; EX27980XXX-A G9H2-7980A	2.0m RJ-11 Unshielded Cable x 2 1.0m AC Adaptor x 1 (Handset Unit Charager)

Remark "*" means equipment under test.

4 RADIATED EMISSION MEASUREMENT

4.1 Applicable Standard

For intentional radiators, according to §15.249 (a), operation within the frequency band of 2.4 to 2.4835 GHz, the fundamental field strength shall not exceed 94 dBuV/m and the harmonics shall not exceed 54 dBuV/m. For out band emission except for harmonics shall be comply with § 15.209 or at least attenuated by 50 dB below the level of the fundamental.

4.2 Measurement Procedure

1. Setup the configuration per figure 5 and 6 for frequencies measured below and above 1 GHz respectively.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. 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 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.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.
7. Check the three frequencies of highest emission with varying the placement of cables associated with EUT to obtain the worse case and record the result.

Figure 1 : Frequencies measured below 1 GHz configuration

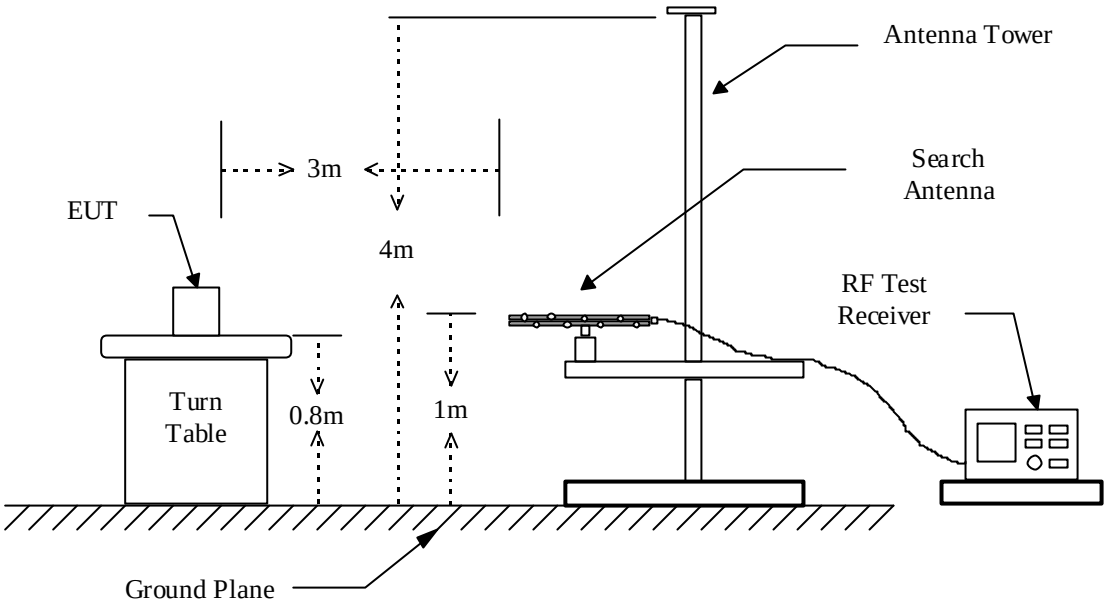
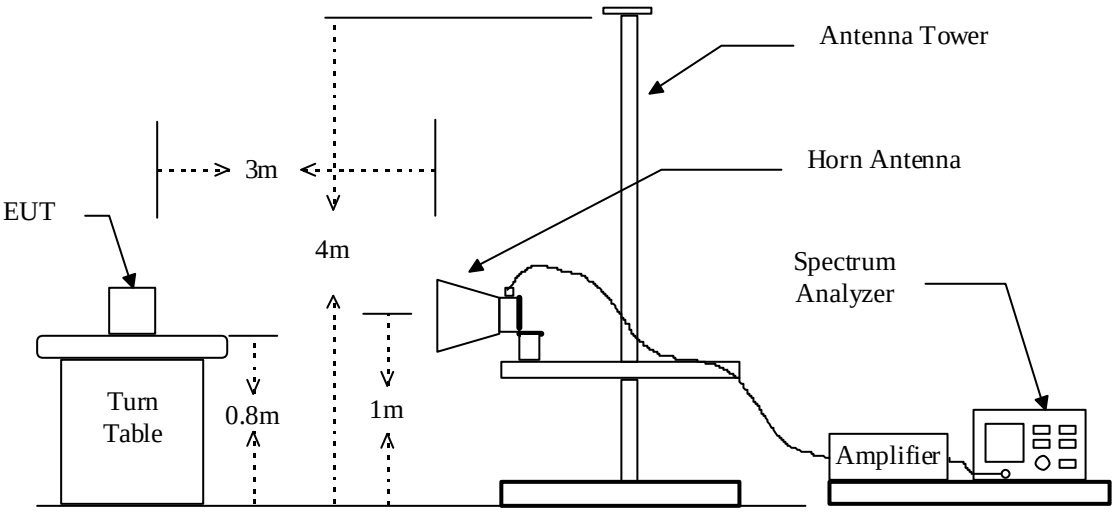


Figure 2 : Frequencies measured above 1 GHz configuration



4.3 Measuring Instrument

The following instrument are used for radiated emissions measurement:

Equipment	Manufacturer	Model No.	Next Cal. Date
Spectrum Analyzer	Hewlett-Packard	8564E	08/08/2006
RF Test Receiver	Rohde & Schwarz	ESVS 30	09/05/2006
Horn Antenna	EMCO	3115	08/18/2006
Log periodic Antenna	EMCO	3146	10/10/2006
Biconical Antenna	EMCO	3110B	10/05/2006
Horn Antenna	EMCO	3116	04/18/2006
Preamplifier	Hewlett-Packard	8449B	09/13/2006
Preamplifier	Hewlett-Packard	8447D	08/03/2006
Spectrum	Rohde & Schwarz	FSP40	07/05/2006

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	N/A
	Spectrum Analyzer	Peak	100 kHz	100 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	10 Hz

4.4 Radiated Emission Data

4.4.1 Tx Portion

Mode : Base Unit

A. CH Low

Operation Mode : Receiving / Transmitting

Fundamental Frequency : 2400.300 MHz (Local Frequency : 2400.300 MHz)

Test Date : Nov. 28, 2005 Temperature : 25°C Humidity : 60%

Frequency (MHz)	Reading (dBuV) H Peak	H Ave	V Peak	V Ave	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result Ave	Limit @3m (dBuV/m) Peak	Limit Ave.	Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
* 2400.300	---	---	---	---	-3.1	---	---	74.0	54.0	---	---	---
* 4800.600	---	---	---	---	2.5	---	---	74.0	54.0	---	---	---
* 7200.900	---	---	---	---	5.7	---	---	74.0	54.0	---	---	---
* 9601.200	---	---	---	---	7.2	---	---	74.0	54.0	---	---	---
* 12001.500	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
4800.600	45.0	---	48.8	---	2.5	51.3	---	74.0	54.0	-2.7	54	1.0
7200.900	41.2	---	40.8	---	5.7	46.9	---	74.0	54.0	-7.1	62	1.0
9601.200	---	---	---	---	7.2	---	---	74.0	54.0	---	---	---
12001.500	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14401.800	---	---	---	---	11.5	---	---	74.0	54.0	---	---	---
16802.100	---	---	---	---	11.7	---	---	74.0	54.0	---	---	---
19202.400	---	---	---	---	8.9	---	---	74.0	54.0	---	---	---
21602.700	---	---	---	---	9.7	---	---	74.0	54.0	---	---	---
24003.000	---	---	---	---	10.3	---	---	74.0	54.0	---	---	---

Note :

1. *Item of margin shown in above table refer to average limit.*
2. *It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.*
3. *Remark "---" means that the emissions level is too low to be measured.*
4. *Item "Margin" referred to Average limit while there is only peak result.*
5. *The expanded uncertainty of the radiated emission tests is 3.53 dB.*

B. CH Mid

Operation Mode : Receiving / Transmitting

Fundamental Frequency : 2404.500 MHz (Local Frequency : 2404.500 MHz)

Test Date : Nov. 28, 2005 Temperature : 25°C Humidity : 60%

Frequency (MHz)	Reading (dBuV) H Peak	H Ave	V Peak	V Ave	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result Ave	Limit @3m (dBuV/m) Peak	Limit Ave.	Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
* 2404.500	---	---	---	---	-3.1	---	---	74.0	54.0	---	---	---
* 4809.000	---	---	---	---	2.6	---	---	74.0	54.0	---	---	---
* 7213.500	---	---	---	---	5.7	---	---	74.0	54.0	---	---	---
* 9618.000	---	---	---	---	7.2	---	---	74.0	54.0	---	---	---
* 12022.500	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
4809.000	45.6	---	49.5	---	2.6	52.1	---	74.0	54.0	-1.9	132	1.0
7213.500	41.7	---	41.8	---	5.7	47.5	---	74.0	54.0	-6.5	171	1.0
9618.000	---	---	---	---	7.2	---	---	74.0	54.0	---	---	---
12022.500	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14427.000	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16831.500	---	---	---	---	11.9	---	---	74.0	54.0	---	---	---
19236.000	---	---	---	---	8.9	---	---	74.0	54.0	---	---	---
21640.500	---	---	---	---	9.8	---	---	74.0	54.0	---	---	---
24045.000	---	---	---	---	10.3	---	---	74.0	54.0	---	---	---

Note :

1. *Item of margin shown in above table refer to average limit.*
2. *It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.*
3. *Remark "---" means that the emissions level is too low to be measured.*
4. *Item "Margin" referred to Average limit while there is only peak result.*
5. *The expanded uncertainty of the radiated emission tests is 3.53 dB.*

C. CH High

Operation Mode : Receiving / Transmitting

Fundamental Frequency : 2409.000 MHz (Local Frequency : 2409.000 MHz)

Test Date : Nov. 28, 2005 Temperature : 25°C Humidity : 60%

Frequency (MHz)	Reading (dBuV) H Peak	H Ave	V Peak	V Ave	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
* 2409.000	---	---	---	---	-3.0	---	---	74.0	54.0	---	---	---
* 4818.000	---	---	---	---	2.6	---	---	74.0	54.0	---	---	---
* 7227.000	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
* 9636.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12045.000	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
4818.000	46.5	---	48.7	---	2.6	51.3	---	74.0	54.0	-2.7	74	1.0
7227.000	42.5	---	42.9	---	5.8	48.7	---	74.0	54.0	-5.3	21	1.5
9636.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12045.000	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14454.000	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16863.000	---	---	---	---	12.0	---	---	74.0	54.0	---	---	---
19272.000	---	---	---	---	8.8	---	---	74.0	54.0	---	---	---
21681.000	---	---	---	---	9.8	---	---	74.0	54.0	---	---	---
24090.000	---	---	---	---	10.4	---	---	74.0	54.0	---	---	---

Note :

1. *Item of margin shown in above table refer to average limit.*
2. *It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.*
3. *Remark "---" means that the emissions level is too low to be measured.*
4. *Item "Margin" referred to Average limit while there is only peak result.*
5. *The expanded uncertainty of the radiated emission tests is 3.53 dB.*

Mode : Handset

A. CH Low

Operation Mode : Receiving / Transmitting

Fundamental Frequency : 2470.200 MHz (Local Frequency : 2470.200 MHz)

Test Date : Nov. 28, 2005 Temperature : 25°C Humidity : 60%

Frequency (MHz)	Reading (dBuV) H Peak	H Ave	V Peak	V Ave	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result Ave	Limit @3m (dBuV/m) Peak	Limit Ave.	Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
* 2470.200	---	---	---	---	-2.8	---	---	74.0	54.0	---	---	---
* 4940.400	---	---	---	---	2.8	---	---	74.0	54.0	---	---	---
* 7410.600	---	---	---	---	6.1	---	---	74.0	54.0	---	---	---
* 9880.800	---	---	---	---	7.4	---	---	74.0	54.0	---	---	---
* 12351.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4940.400	48.1	---	45.4	---	2.8	50.9	---	74.0	54.0	-3.1	26	1.0
7410.600	41.2	---	40.7	---	6.1	47.3	---	74.0	54.0	-6.7	33	1.2
9880.800	---	---	---	---	7.4	---	---	74.0	54.0	---	---	---
12351.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14821.200	---	---	---	---	11.5	---	---	74.0	54.0	---	---	---
17291.400	---	---	---	---	14.7	---	---	74.0	54.0	---	---	---
19761.600	---	---	---	---	8.6	---	---	74.0	54.0	---	---	---
22231.800	---	---	---	---	10.1	---	---	74.0	54.0	---	---	---
24702.000	---	---	---	---	11.0	---	---	74.0	54.0	---	---	---

Note :

1. *Item of margin shown in above table refer to average limit.*
2. *It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.*
3. *Remark "---" means that the emissions level is too low to be measured.*
4. *Item "Margin" referred to Average limit while there is only peak result.*
5. *The expanded uncertainty of the radiated emission tests is 3.53 dB.*

B. CH Mid

Operation Mode : Receiving / Transmitting

Fundamental Frequency : 2474.400 MHz (Local Frequency : 2474.400 MHz)

Test Date : Nov. 28, 2005 Temperature : 25°C Humidity : 60%

Frequency (MHz)	Reading (dBuV) H Peak	H Ave	V Peak	V Ave	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result Ave	Limit @3m (dBuV/m) Peak	Limit Ave.	Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
* 2474.400	---	---	---	---	-2.8	---	---	74.0	54.0	---	---	---
* 4948.800	---	---	---	---	2.8	---	---	74.0	54.0	---	---	---
* 7423.200	---	---	---	---	6.1	---	---	74.0	54.0	---	---	---
* 9897.600	---	---	---	---	7.4	---	---	74.0	54.0	---	---	---
* 12372.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4948.800	48.5	---	46.4	---	2.8	51.3	---	74.0	54.0	-2.7	215	1.0
7423.200	42.1	---	41.0	---	6.1	48.2	---	74.0	54.0	-5.8	55	1.1
9897.600	---	---	---	---	7.4	---	---	74.0	54.0	---	---	---
12372.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14846.400	---	---	---	---	11.5	---	---	74.0	54.0	---	---	---
17320.800	---	---	---	---	14.9	---	---	74.0	54.0	---	---	---
19795.200	---	---	---	---	8.6	---	---	74.0	54.0	---	---	---
22269.600	---	---	---	---	10.1	---	---	74.0	54.0	---	---	---
24744.000	---	---	---	---	11.0	---	---	74.0	54.0	---	---	---

Note :

1. *Item of margin shown in above table refer to average limit.*
2. *It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.*
3. *Remark "---" means that the emissions level is too low to be measured.*
4. *Item "Margin" referred to Average limit while there is only peak result.*
5. *The expanded uncertainty of the radiated emission tests is 3.53 dB.*

C. CH High

Operation Mode : Receiving / Transmitting

Fundamental Frequency : 2478.900 MHz (Local Frequency : 2478.900 MHz)

Test Date : Nov. 28, 2005 Temperature : 25°C Humidity : 60%

Frequency (MHz)	Reading (dBuV) H Peak	H Ave	V Peak	V Ave	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result Ave	Limit @3m (dBuV/m) Peak	Limit Ave.	Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
* 2478.900	---	---	---	---	-2.8	---	---	74.0	54.0	---	---	---
* 4957.800	---	---	---	---	2.8	---	---	74.0	54.0	---	---	---
* 7436.700	---	---	---	---	6.1	---	---	74.0	54.0	---	---	---
* 9915.600	---	---	---	---	7.4	---	---	74.0	54.0	---	---	---
* 12394.500	---	---	---	---	9.4	---	---	74.0	54.0	---	---	---
4957.800	45.6	---	44.5	---	2.8	48.4	---	74.0	54.0	-5.6	74	1.0
7436.700	41.8	---	40.1	---	6.1	47.9	---	74.0	54.0	-6.1	141	1.0
9915.600	---	---	---	---	7.4	---	---	74.0	54.0	---	---	---
12394.500	---	---	---	---	9.4	---	---	74.0	54.0	---	---	---
14873.400	---	---	---	---	11.5	---	---	74.0	54.0	---	---	---
17352.300	---	---	---	---	15.2	---	---	74.0	54.0	---	---	---
19831.200	---	---	---	---	8.6	---	---	74.0	54.0	---	---	---
22310.100	---	---	---	---	10.1	---	---	74.0	54.0	---	---	---
24789.000	---	---	---	---	11.0	---	---	74.0	54.0	---	---	---

Note :

1. *Item of margin shown in above table refer to average limit.*
2. *It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.*
3. *Remark "---" means that the emissions level is too low to be measured.*
4. *Item "Margin" referred to Average limit while there is only peak result.*
5. *The expanded uncertainty of the radiated emission tests is 3.53 dB.*

4.4.2 Other Emissions

Mode : Base Unit Talk

a) Emission frequencies below 1 GHz

Operation Mode : Receiving / Transmitting

Test Date : Nov. 20, 2005 Temperature : 26°C Humidity : 55 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
131.520	V	45.8	-11.4	34.4	43.5	-9.1	162	1.5
147.450	V	40.0	-10.2	29.8	43.5	-13.7	152	1.0
159.330	V	37.0	-9.5	27.5	43.5	-16.0	153	1.0
514.200	V	33.8	-4.7	29.1	46.0	-16.9	132	1.0
587.700	V	34.5	-4.9	29.6	46.0	-16.4	188	1.0
634.600	V	33.0	-3.1	29.9	46.0	-16.1	177	1.2

Note :

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

2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

b) Emission frequencies above 1 GHz

Radiated emission frequencies above 1 GHz to 25 GHz were too low to be measured with a pre-amplifier of 35 dB.

Mode : Handset Unit Talk with MP3 Play

a) Emission frequencies below 1 GHz

Operation Mode : Receiving / Transmitting

Test Date : N ov. 28, 2005 Temperature : 26°C Humidity : 55 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
132.770	V	38.7	-11.3	27.4	43.5	-16.1	28	1.5
150.320	V	38.1	-10.0	28.1	43.5	-15.4	193	1.2
174.280	V	35.3	-9.0	26.3	43.5	-17.2	26	1.0
715.320	V	32.1	-0.9	31.2	46.0	-14.8	56	1.2
743.250	H	31.8	-0.4	31.4	46.0	-14.6	132	1.0
792.660	H	29.6	0.4	30.0	46.0	-16.0	28	1.2

Note :

1. *Remark "---" means that the emissions level is too low to be measured.*
2. *The expanded uncertainty of the radiated emission tests is 3.53 dB.*

b) Emission frequencies above 1 GHz

Radiated emission frequencies above 1 GHz to 25 GHz were too low to be measured with a pre-amplifier of 35 dB.

Mode : Handset Unit Charging with Base Unit

a) Emission frequencies below 1 GHz

Operation Mode : Charging

Test Date : Nov. 20, 2005 Temperature : 26°C Humidity : 55 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
118.020	V	41.9	-11.0	30.9	43.5	-12.6	63	1.2
147.450	V	39.9	-10.2	29.7	43.5	-13.8	315	1.5
172.020	V	37.2	-9.0	28.2	43.5	-15.3	144	1.2
707.400	V	33.1	-0.9	32.2	46.0	-13.8	215	1.2
738.900	V	33.4	-0.5	32.9	46.0	-13.1	161	1.2
777.400	V	32.8	-0.2	32.6	46.0	-13.4	152	1.2

Note :

1. *Remark "---" means that the emissions level is too low to be measured.*
2. *The expanded uncertainty of the radiated emission tests is 3.53 dB.*

b) Emission frequencies above 1 GHz

Radiated emission frequencies above 1 GHz to 25 GHz were too low to be measured with a pre-amplifier of 35 dB.

Mode : Handset Unit Charging with Charger

c) Emission frequencies below 1 GHz

Operation Mode : Charger

Test Date : Nov. 20, 2005 Temperature : 26°C Humidity : 55 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
172.020	H	35.5	-9.0	26.5	43.5	-17.0	215	1.5
196.860	H	32.9	-7.5	25.4	43.5	-18.1	133	1.3
204.400	H	32.0	-6.8	25.2	43.5	-18.3	33	1.3
680.100	V	31.8	-1.0	30.8	46.0	-15.2	24	1.0
713.000	V	33.1	-0.9	32.2	46.0	-13.8	25	1.1
794.900	V	31.8	0.5	32.3	46.0	-13.7	125	1.2

Note :

1. *Remark "---" means that the emissions level is too low to be measured.*
2. *The expanded uncertainty of the radiated emission tests is 3.53 dB.*

b) Emission frequencies above 1 GHz

Radiated emission frequencies above 1 GHz to 25 GHz were too low to be measured with a pre-amplifier of 35 dB.

4.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor, High Pass Filter Loss (if used) 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

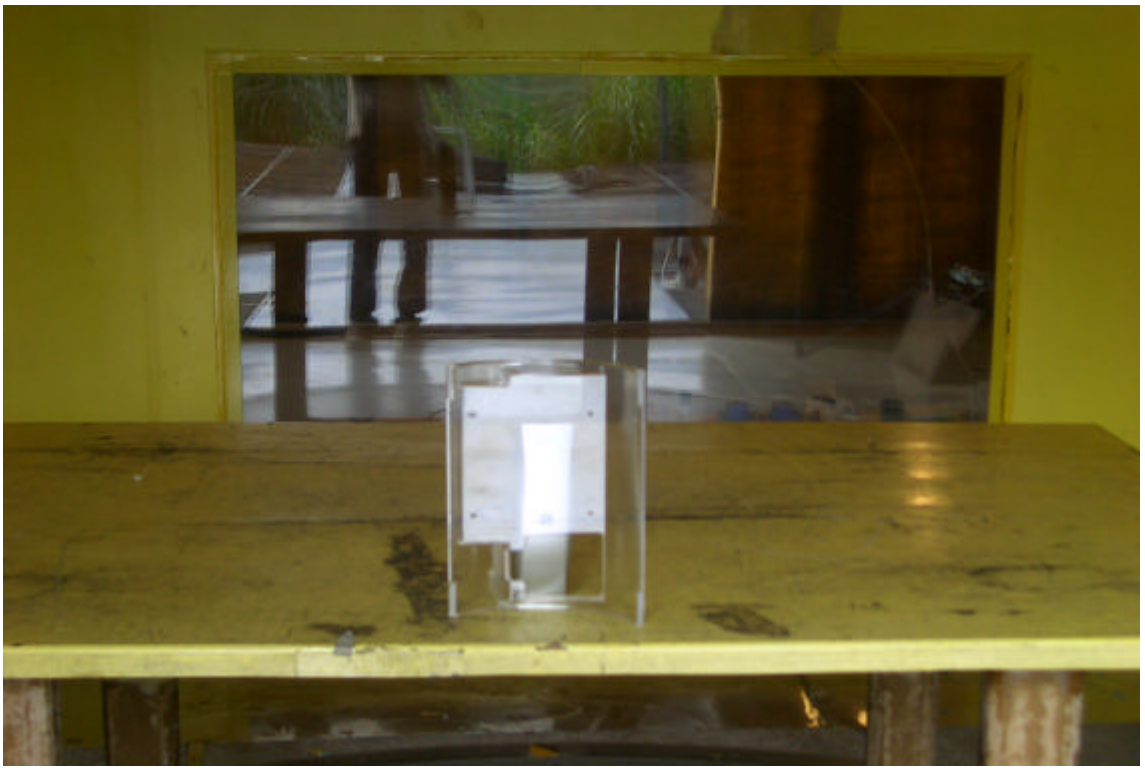
= Antenna FACTOR + Cable Loss + High Pass Filter Loss - Amplifier Gain

4.6 Photos of Radiation Measuring Setup

Mode : Base Unit Talk

Mode : Handset Unit Talk with MP3 Play

Mode : Handset Unit Link



5 CONDUCTED EMISSION MEASUREMENT

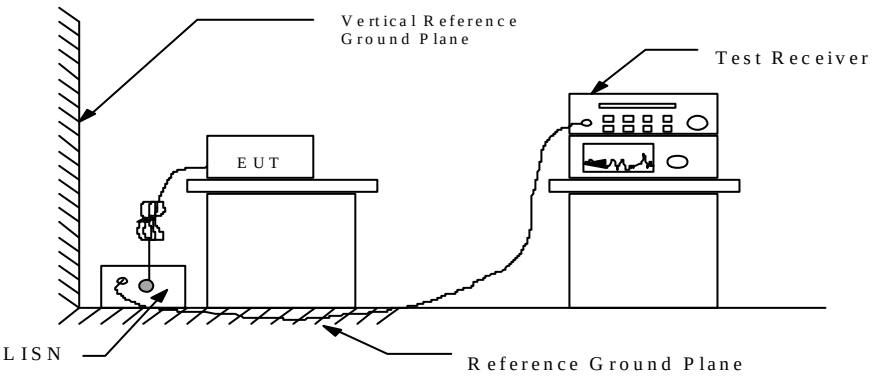
5.1 Standard Applicable

For unintentional and intentional device, Line Conducted Emission Limits are in accordance to § 15.107(a) and §15.207(a) respectively .

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 6 or 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 records 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 three 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.

Figure 3 : Conducted emissions measurement configuration



5.3 Conducted Emission Data

Mode : Base Unit Link

Operation Mode : Link

Test Date : Nov. 20, 2005 Temperature : 26 °C Humidity : 55 %

Frequency (MHz)	**Meter Reading** (dBuV)				**Factor** (dB)	**Result** (dBuV)				**Limit** (dBuV)		**Margins** (dBuV)	
	Q.P. Value		AVG. Value			Q.P. Value		AVG. Value		Q.P. Value	AVG. Value	Q.P.	AVG.
	N	L1	N	L1		N	L1	N	L1				
0.161	24.5	24.4	----	----	0.2	24.7	24.6	----	----	65.4	55.4	-40.7	----
0.181	21.8	21.8	----	----	0.2	22.0	22.0	----	----	64.4	54.4	-42.4	----
0.196	20.3	20.7	----	----	0.2	20.5	20.9	----	----	63.8	53.8	-42.9	----
21.500	30.3	29.9	----	----	1.4	31.7	31.3	----	----	60.0	50.0	-28.3	----
26.800	32.7	32.2	----	----	1.8	34.5	34.0	----	----	60.0	50.0	-25.5	----
28.600	30.2	29.6	----	----	2.0	32.2	31.6	----	----	60.0	50.0	-27.8	----

Note : 1. Please see appendix 1 for Plotted Data

2. The expanded uncertainty of the conducted emission tests is 2.45 dB.

Handset Unit Charging with MP3 Play

1.Operation Mode : MP3 Play (Adaptor 120V/60Hz)

Test Date : Nov. 28, 2005 Temperature : 26 °C Humidity : 55 %

Frequency (MHz)	Meter Reading (dBuV)				Factor (dB)	Result (dBuV)				Limit (dBuV)		Margins (dBuV)	
	Q.P. Value		AVG. Value			Q.P. Value		AVG. Value		Q.P. Value	AVG. Value	Q.P.	AVG.
	N	L1	N	L1		N	L1	N	L1				
0.161	21.9	23.2	----	----	0.2	22.1	23.4	----	----	65.4	55.4	-42.0	----
0.212	16.3	15.8	----	----	0.2	16.5	16.0	----	----	63.1	53.1	-46.6	----
0.271	15.1	13.3	----	----	0.2	15.3	13.5	----	----	61.1	51.1	-45.8	----
1.359	14.1	14.4	----	----	0.4	14.5	14.8	----	----	56.0	46.0	-41.2	----
12.542	19.5	20.4	----	----	1.0	20.5	21.4	----	----	60.0	50.0	-38.6	----
26.870	27.1	27.7	----	----	1.8	28.9	29.5	----	----	60.0	50.0	-30.5	----

2.Operation Mode : MP3 Play (Adaptor A30950G (230V/50Hz))

Test Date : Dec. 30, 2005 Temperature : 26 °C Humidity : 55 %

Frequency (MHz)	Meter Reading (dBuV)				Factor (dB)	Result (dBuV)				Limit (dBuV)		Margins (dBuV)	
	Q.P. Value		AVG. Value			Q.P. Value		AVG. Value		Q.P. Value	AVG. Value	Q.P.	AVG.
	N	L1	N	L1		N	L1	N	L1				
0.2160	16.9	16.5	----	----	0.2	17.1	16.7	----	----	63.0	53.0	-45.9	----
1.0190	13.4	12.1	----	----	0.3	13.7	12.4	----	----	56.0	46.0	-42.3	----
2.7730	14.1	13.1	----	----	0.5	14.6	13.6	----	----	56.0	46.0	-41.4	----
5.2260	12.1	14.1	----	----	0.6	12.7	14.7	----	----	60.0	50.0	-45.3	----
9.2650	13.8	12.1	----	----	0.8	14.6	12.9	----	----	60.0	50.0	-45.4	----
17.1130	13.9	13.5	----	----	1.2	15.1	14.7	----	----	60.0	50.0	-44.9	----

Note : 1. Please see appendix 1 for Plotted Data

2. The expanded uncertainty of the conducted emission tests is 2.45 dB.

3.Operation Mode : MP3 Play (Adaptor MGSD4109500 (230V/50Hz))

Test Date : Dec. 30, 2005 Temperature : 26 °C Humidity : 55 %

Frequency (MHz)	**Meter Reading** (dBuV)				**Factor** (dB)	**Result** (dBuV)				**Limit** (dBuV)		**Margins** (dBuV)	
	Q.P. Value		AVG. Value			Q.P. Value		AVG. Value		Q.P. Value	AVG. Value	Q.P.	AVG.
	N	L1	N	L1		N	L1	N	L1				
0.1610	21.1	20.9	----	----	0.2	21.3	21.1	----	----	65.4	55.4	-44.1	----
0.2120	17.2	17.1	----	----	0.2	17.4	17.3	----	----	63.1	53.1	-45.7	----
2.2650	13.4	13.2	----	----	0.5	13.9	13.7	----	----	56.0	46.0	-42.1	----
8.1480	12.8	14.1	----	----	0.7	13.5	14.8	----	----	60.0	50.0	-45.2	----
21.5000	18.2	19.4	----	----	1.4	19.6	20.8	----	----	60.0	50.0	-39.2	----
26.8750	21.3	23.5	----	----	1.8	23.1	25.3	----	----	60.0	50.0	-34.7	----

4.Operation Mode : MP3 Play (Adaptor 4120-0950-ADC (230V/50Hz))

Test Date : Dec. 30, 2005 Temperature : 26 °C Humidity : 55 %

Frequency (MHz)	**Meter Reading** (dBuV)				**Factor** (dB)	**Result** (dBuV)				**Limit** (dBuV)		**Margins** (dBuV)	
	Q.P. Value		AVG. Value			Q.P. Value		AVG. Value		Q.P. Value	AVG. Value	Q.P.	AVG.
	N	L1	N	L1		N	L1	N	L1				
0.1610	21.5	20.9	----	----	0.2	21.7	21.1	----	----	65.4	55.4	-43.7	----
0.2120	17.0	16.9	----	----	0.2	17.2	17.1	----	----	63.1	53.1	-45.9	----
1.0150	15.1	14.2	----	----	0.3	15.4	14.5	----	----	56.0	46.0	-40.6	----
1.2530	13.8	13.1	----	----	0.4	14.2	13.5	----	----	56.0	46.0	-41.8	----
7.9800	14.1	12.7	----	----	0.7	14.8	13.4	----	----	60.0	50.0	-45.2	----
28.6600	23.6	22.8	----	----	2.0	25.6	24.8	----	----	60.0	50.0	-34.4	----

Note : 1. Please see appendix 1 for Plotted Data

2. The expanded uncertainty of the conducted emission tests is 2.45 dB.

Handset Unit Link

Operation Mode : Link

Test Date : Nov. 28, 2005 Temperature : 26 °C Humidity : 55 %

Frequency (MHz)	**Meter Reading** (dBuV)				**Factor** (dB)	**Result** (dBuV)				**Limit** (dBuV)		**Margins** (dBuV)	
	Q.P. Value		AVG. Value			Q.P. Value		AVG. Value		Q.P. Value	AVG. Value	Q.P.	AVG.
	N	L1	N	L1		N	L1	N	L1				
0.161	24.5	24.3	----	----	0.2	24.7	24.5	----	----	65.4	55.4	-40.7	----
0.177	21.9	21.6	----	----	0.2	22.1	21.8	----	----	64.6	54.6	-42.5	----
0.192	20.8	21.1	----	----	0.2	21.0	21.3	----	----	63.9	53.9	-42.6	----
19.700	23.3	22.5	----	----	1.4	24.7	23.9	----	----	60.0	50.0	-35.3	----
24.490	24.4	22.9	----	----	1.5	25.9	24.4	----	----	60.0	50.0	-34.1	----
26.870	30.5	29.7	----	----	1.8	32.3	31.5	----	----	60.0	50.0	-27.7	----

Note : 1. Please see appendix 1 for Plotted Data

2. The expanded uncertainty of the conducted emission tests is 2.45 dB.

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

Assume a receiver reading of 22.5 dBμV is obtained, and LISN Factor is 0.1 dB, then the total of disturbance voltage is 22.6 dBμV.

RESULT = 22.5 + 0.1 = 22.6 dBμV

Level in μV = Common Antilogarithm[(22.6 dBμV)/20]

= 13.48 μV

5.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test .

Equipments	Manufacturer	Model No.	Next Cal. Date
EMI Test Receiver	Rohde and Schwarz	ESCS30	12/06/2005
Line Impedance Stabilization network	Rohde and Schwarz	ESH2-Z5	08/10/2005
Line Impedance Stabilization network	Kyoritsu	KNW-407	12/25/2005
Shielded Room	Riken	----	N.C.R.
Monitor	IBM	E54	N.C.R.
Printer	HP	LASERJET 1000	N.C.R.
Computer	ACER	Veriton 7500G	N.C.R.

5.6 Photos of Conduction Measuring Setup

Mode : Base Unit Link

Mode : Handset Unit Link with MP3 Play

6 ANTENNA REQUIREMENT

6.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

6.2 Antenna Construction

An omni-directional antenna with reverse SMA connector is used. Please see photos submitted in Exhibit B.

7 BAND EDGES MEASUREMENT

7.1 Standard Applicable

According to 15.249(c), out band emission except for harmonics shall be comply with §15.209 or at least attenuated by 50 dB below the level of the fundamental.

7.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 4 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
4. Repeat above procedures until all measured frequencies were complete.

7.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Rohde & Schwarz	FSP40	07/05/2006
Attenuator	Weinschel Engineering	1	N/A

7.4 Measurement Data

Test Result:

1. *Lower band edge: Emission radiated outside of the lower band edge is attenuated by at least 50dB below the level of the fundamental.*
2. *Upper band edge: Emission radiated outside of the upper band edge is attenuated by at least 50dB below the level of the fundamental.*

Note : 1. The expanded uncertainty of the band edges tests is 1000Hz.
2. Please see appendix 2 for Plotted Data

APPENDIX 1 : PLOTTED DATA FOR CONDUCTED EMISSION

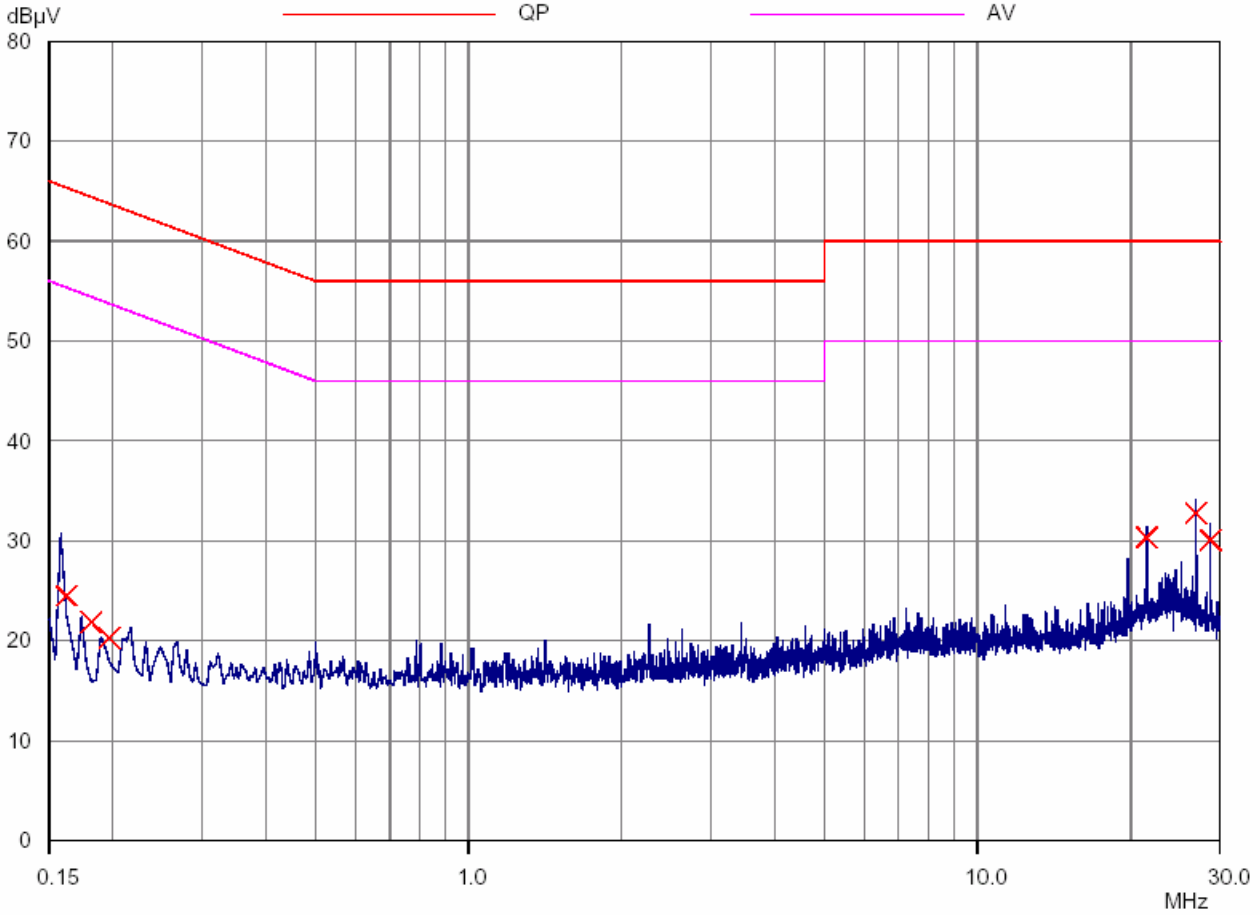
Mode : Base Unit Link

CONDUCTION EMISSION TEST

Peak Value

EUT:	27980
Manuf:	
Op Cond:	
Operator:	BS LINK
Test Spec:	
Comment:	N

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



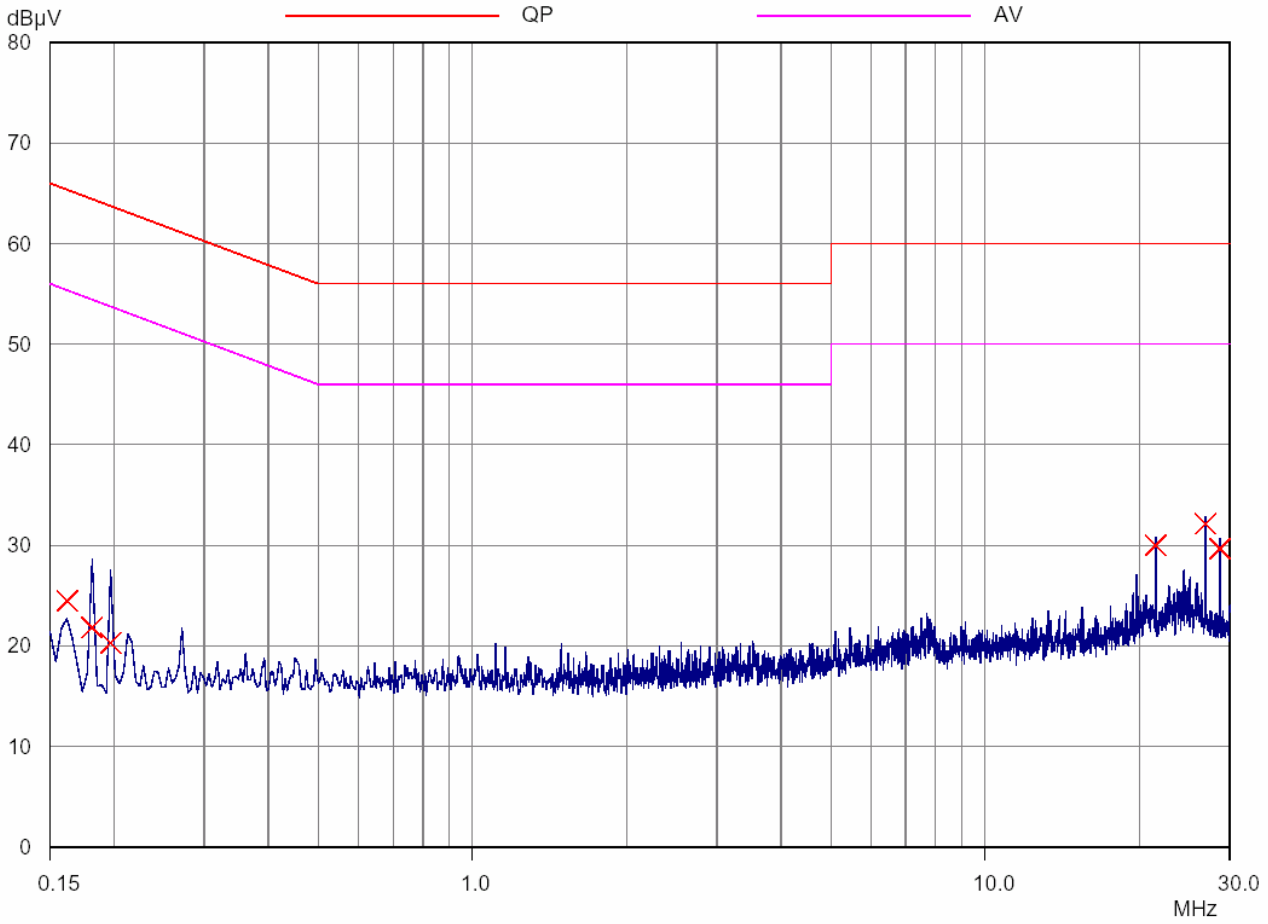
Mode : Base Unit Link

CONDUCTION EMISSION TEST

Peak Value

EUT:	27980
Manuf:	
Op Cond:	
Operator:	BS LINK
Test Spec:	
Comment:	L1

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



Adaptor 120V/60Hz

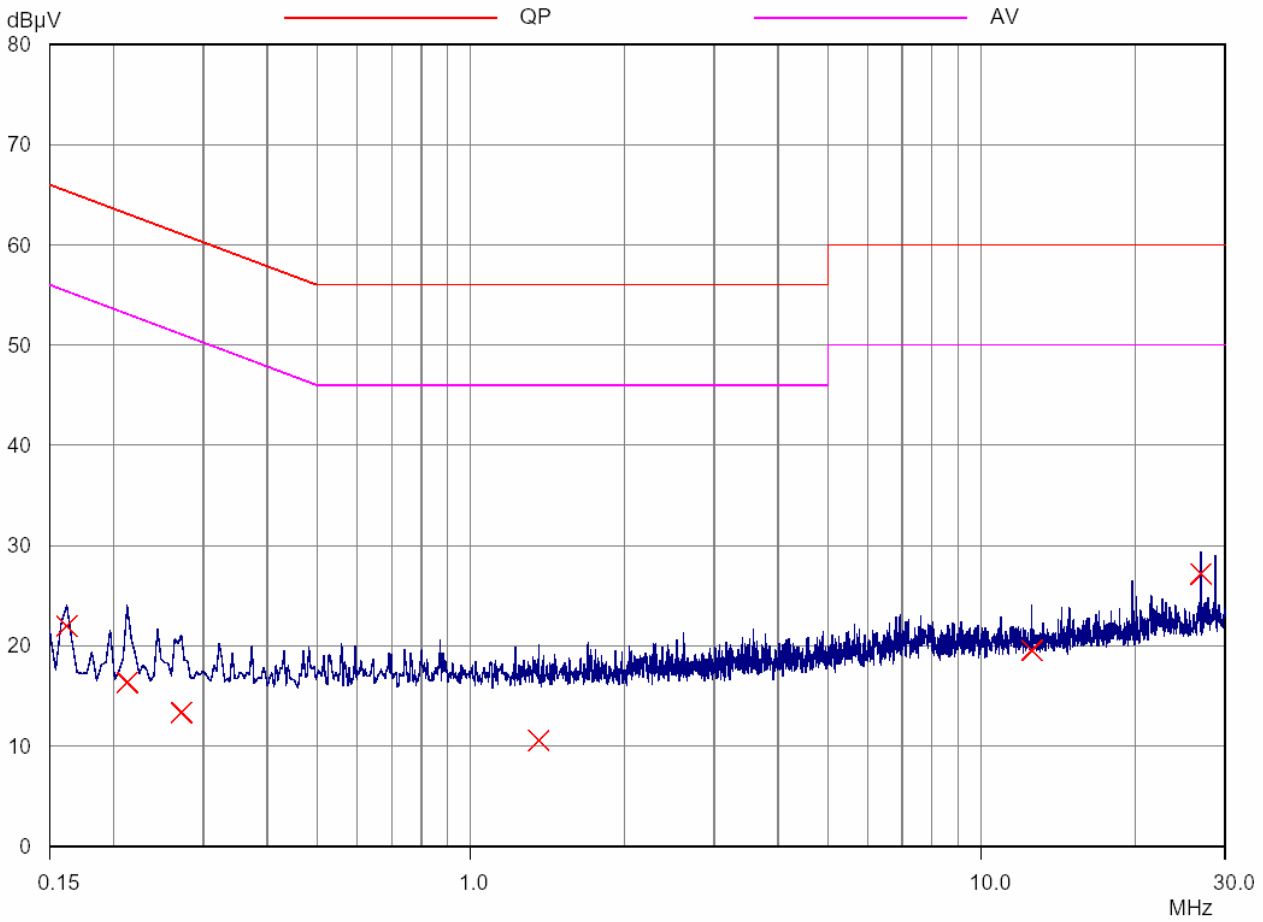
Mode : Handset Unit Link with MP3 Play

CONDUCTION EMISSION TEST

Peak Value

EUT:	27980
Manuf:	
Op Cond:	MP3 PLAY
Operator:	
Test Spec:	
Comment:	N

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



Adaptor 120V/60Hz

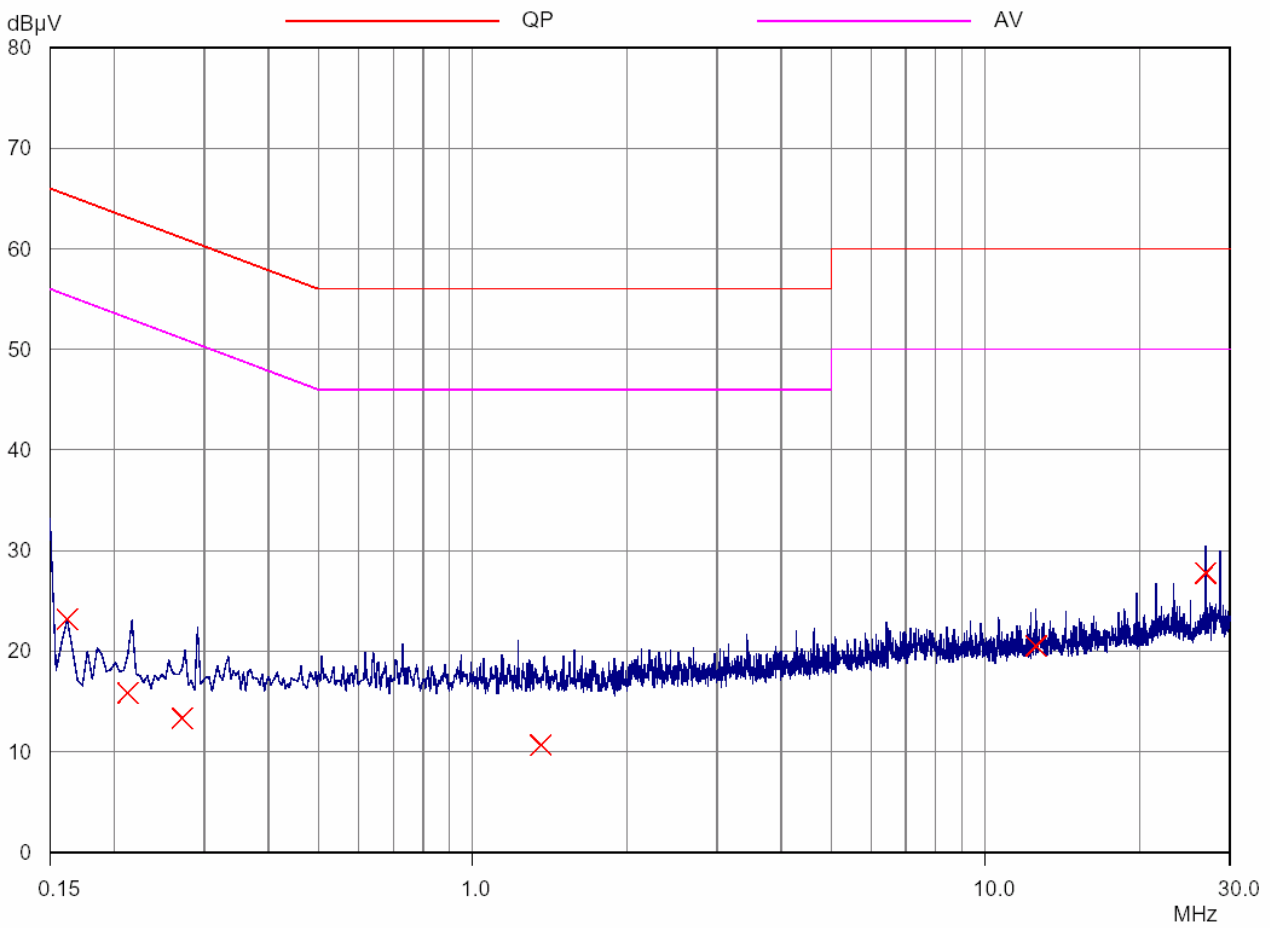
Mode : Handset Unit Link with MP3 Play

CONDUCTION EMISSION TEST

Peak Value

EUT:	27980
Manuf:	
Op Cond:	MP3 PLAY
Operator:	
Test Spec:	
Comment:	L1

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



Adaptor 230V/50Hz (Model : A30950G)

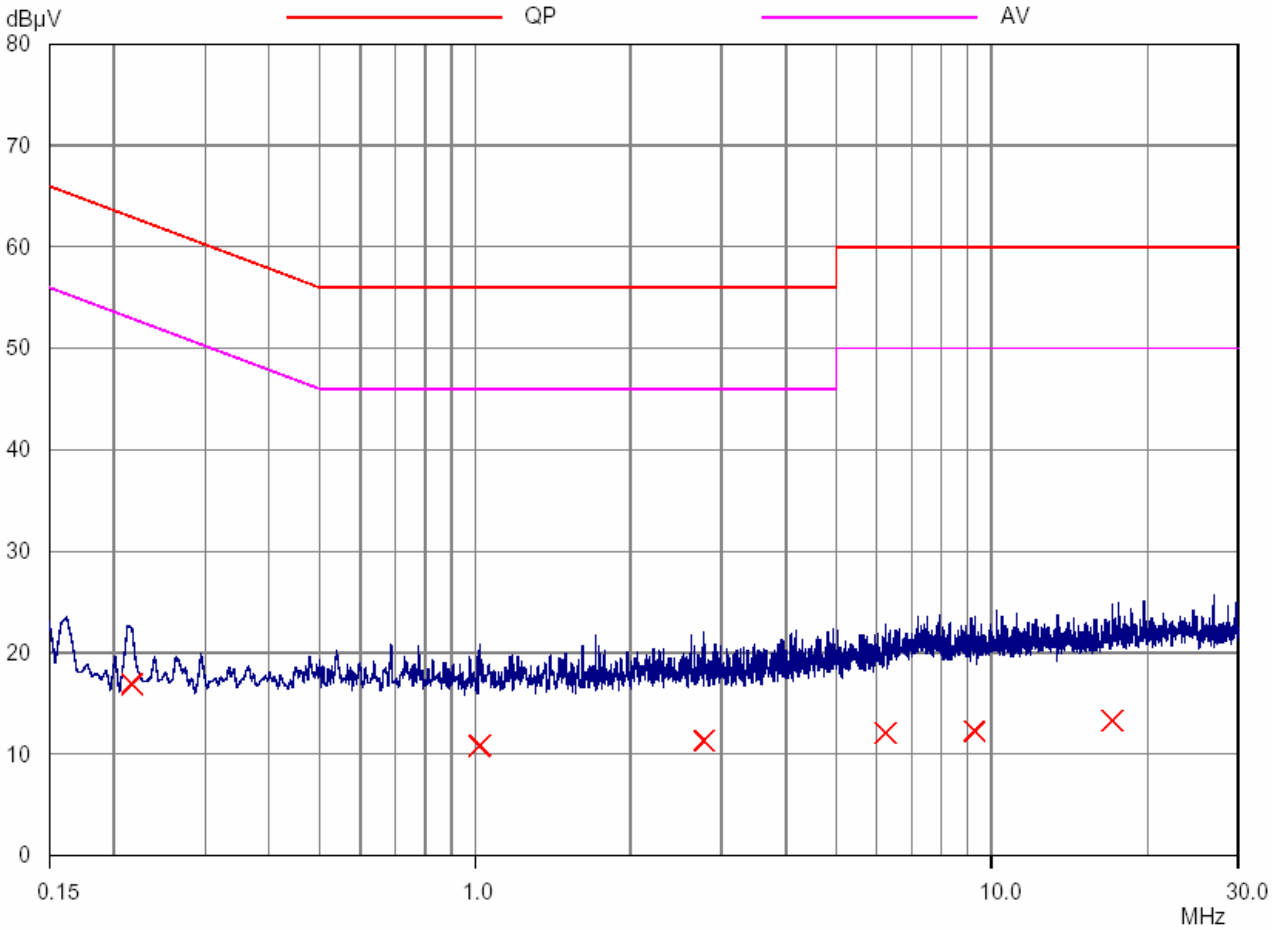
Mode : Handset Unit Link with MP3 Play

CONDUCTION EMISSION TEST

Peak Value

EUT:	GTC
Manuf:	
Op Cond:	SINO-AMREICAN
Operator:	A30950G
Test Spec:	
Comment:	N

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



Adaptor 230V/50Hz (Model : A30950G)

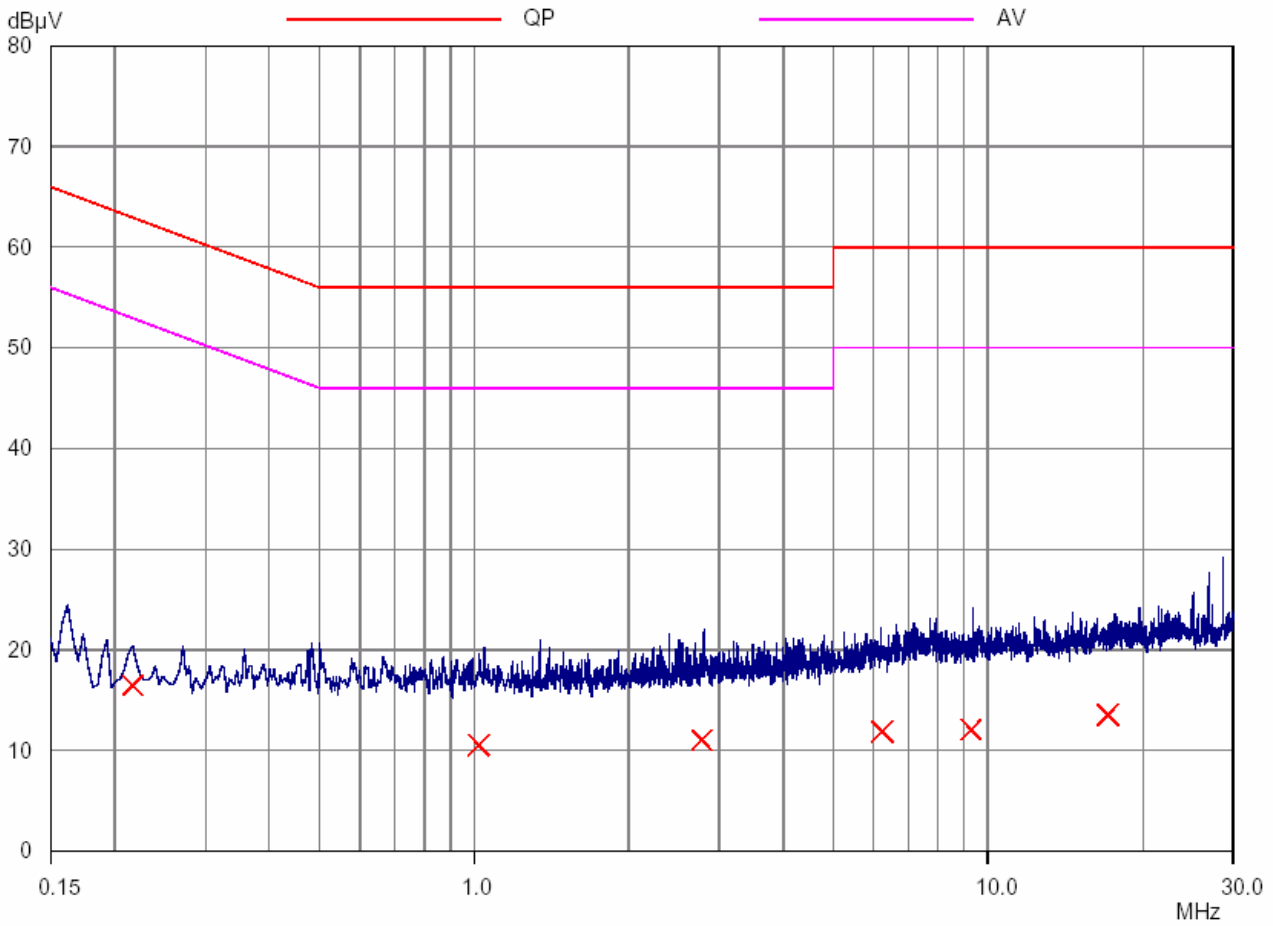
Mode : Handset Unit Link with MP3 Play

CONDUCTION EMISSION TEST

Peak Value

EUT:	GTC
Manuf:	
Op Cond:	SINO-AMREICAN
Operator:	A30950G
Test Spec:	
Comment:	L1

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



Adaptor 230V/50Hz (Model : MGSD4109500)

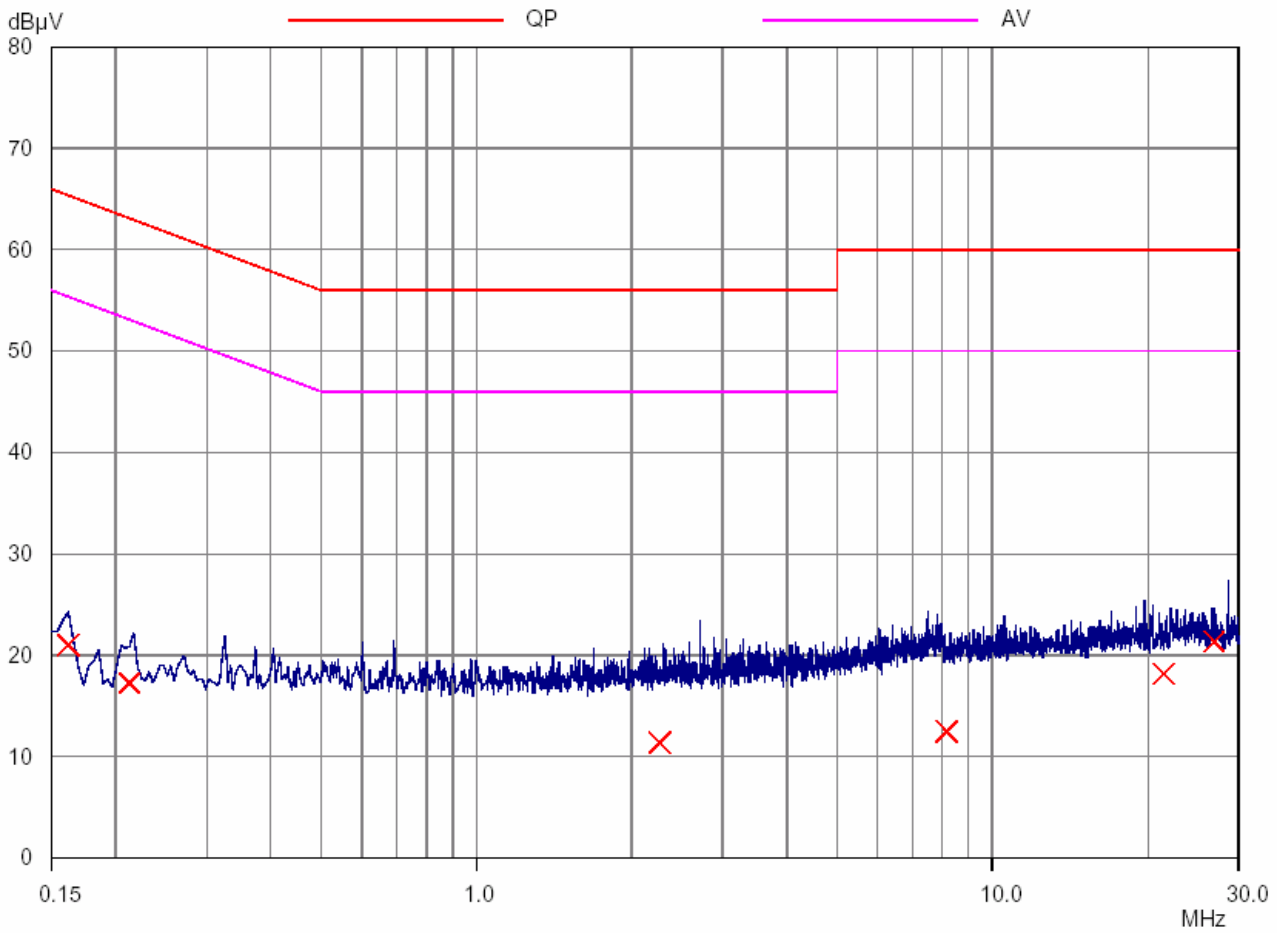
Mode : Handset Unit Link with MP3 Play

CONDUCTION EMISSION TEST

Peak Value

EUT:	GTC
Manuf:	
Op Cond:	STANDARD
Operator:	MGSD4109500
Test Spec:	
Comment:	N

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



Adaptor 230V/50Hz (Model : MGSD4109500)

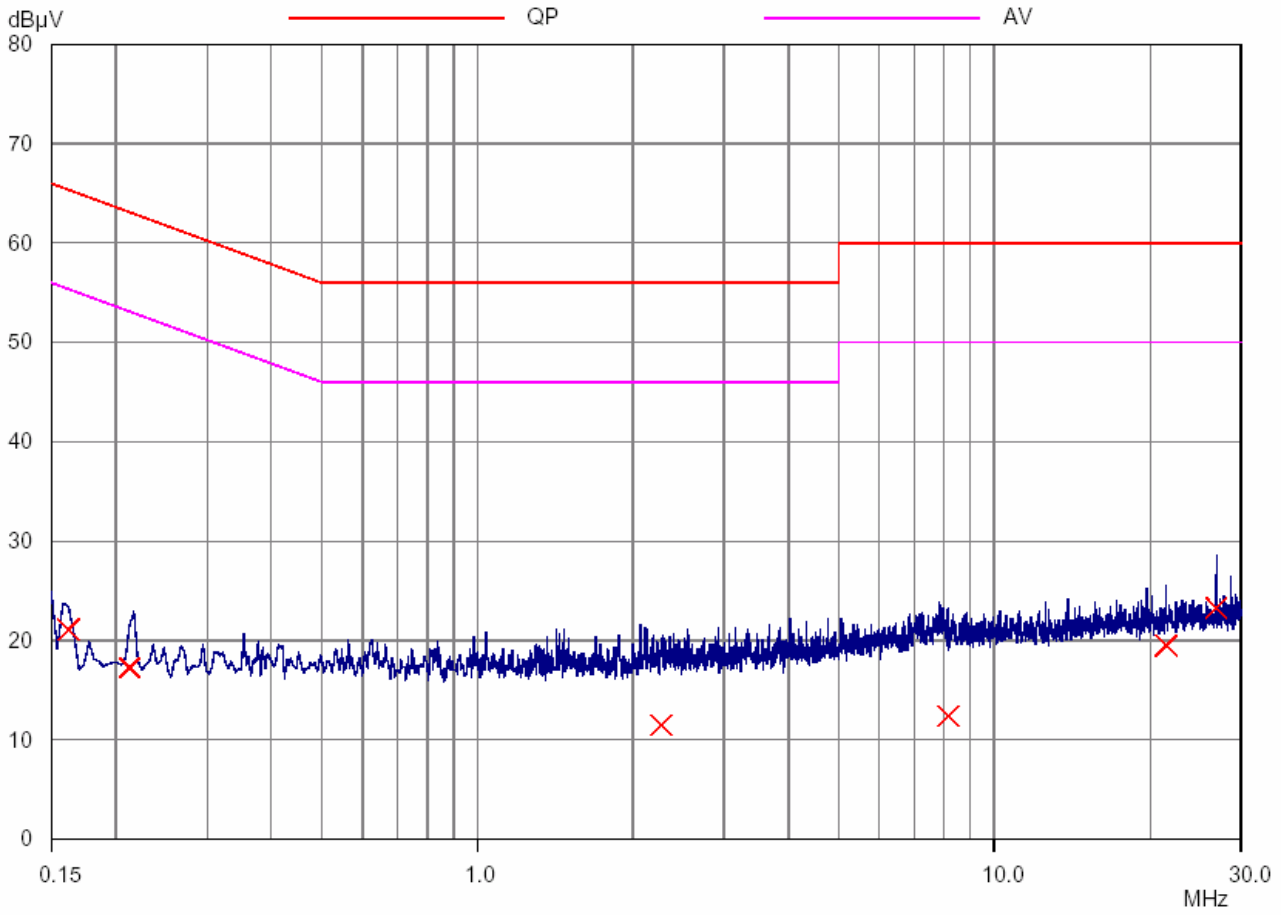
Mode : Handset Unit Link with MP3 Play

CONDUCTION EMISSION TEST

Peak Value

EUT:	GTC
Manuf:	
Op Cond:	STANDARD
Operator:	MGSD4109500
Test Spec:	
Comment:	L1

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



Adaptor 230V/50Hz (Model : 4120-0950-ADC)

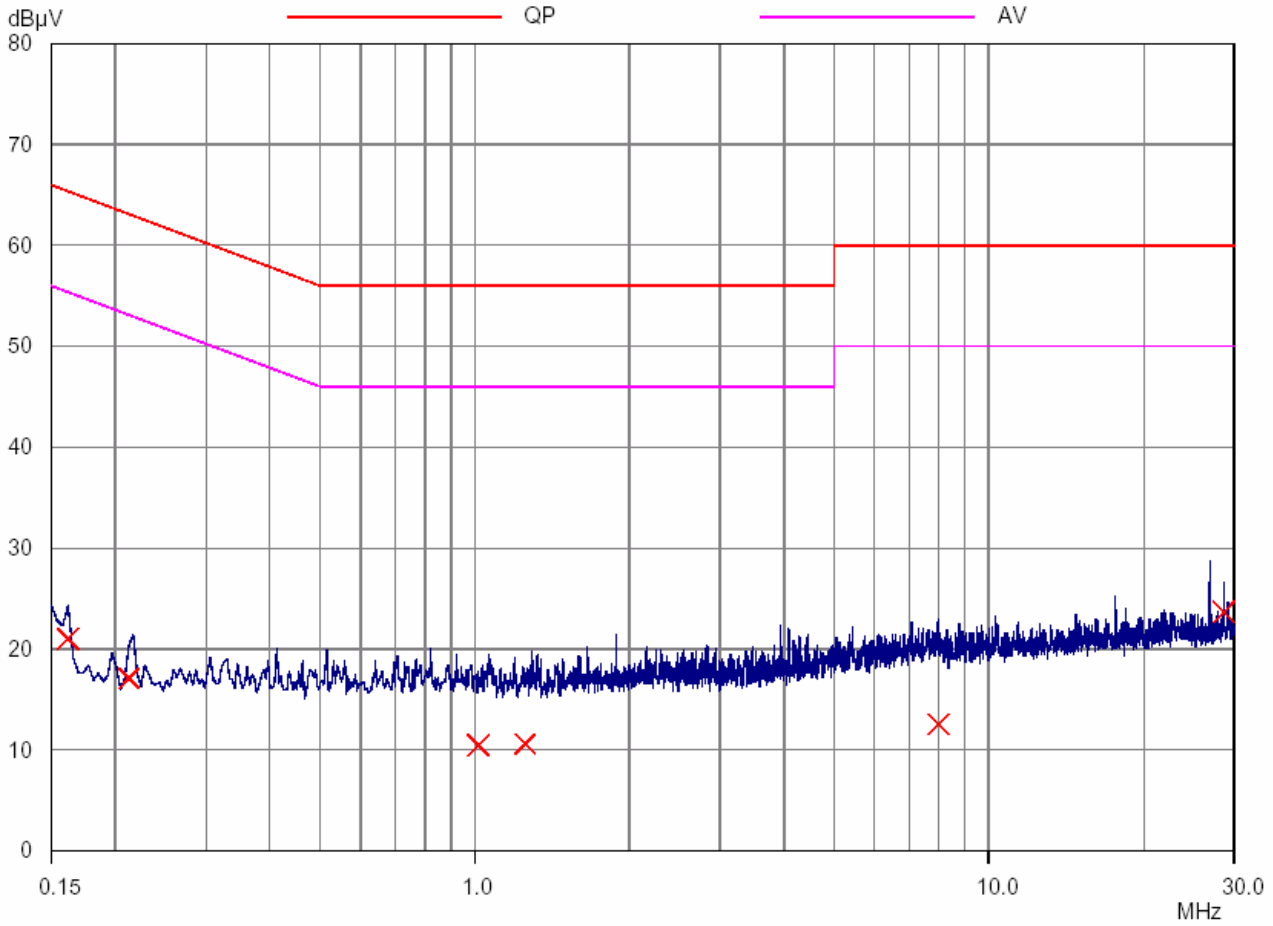
Mode : Handset Unit Link with MP3 Play

CONDUCTION EMISSION TEST

Peak Value

EUT:	GTC
Manuf:	
Op Cond:	POLY-PRODUCTS
Operator:	4120-0950-ADC
Test Spec:	
Comment:	N

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



Adaptor 230V/50Hz (Model : 4120-0950-ADC)

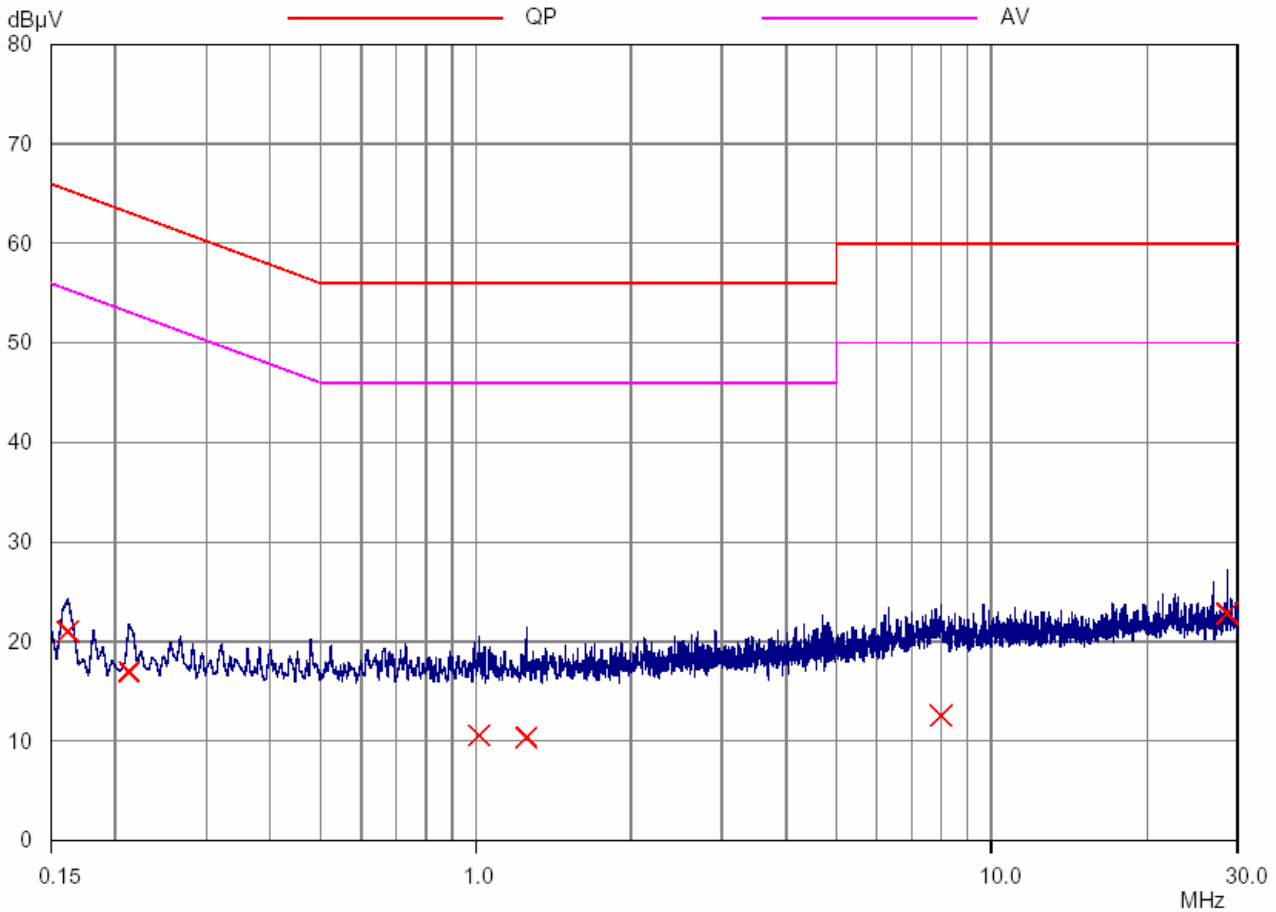
Mode : Handset Unit Link with MP3 Play

CONDUCTION EMISSION TEST

Peak Value

EUT:	GTC
Manuf:	
Op Cond:	POLY-PRODUCTS
Operator:	4120-0950-ADC
Test Spec:	
Comment:	L1

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



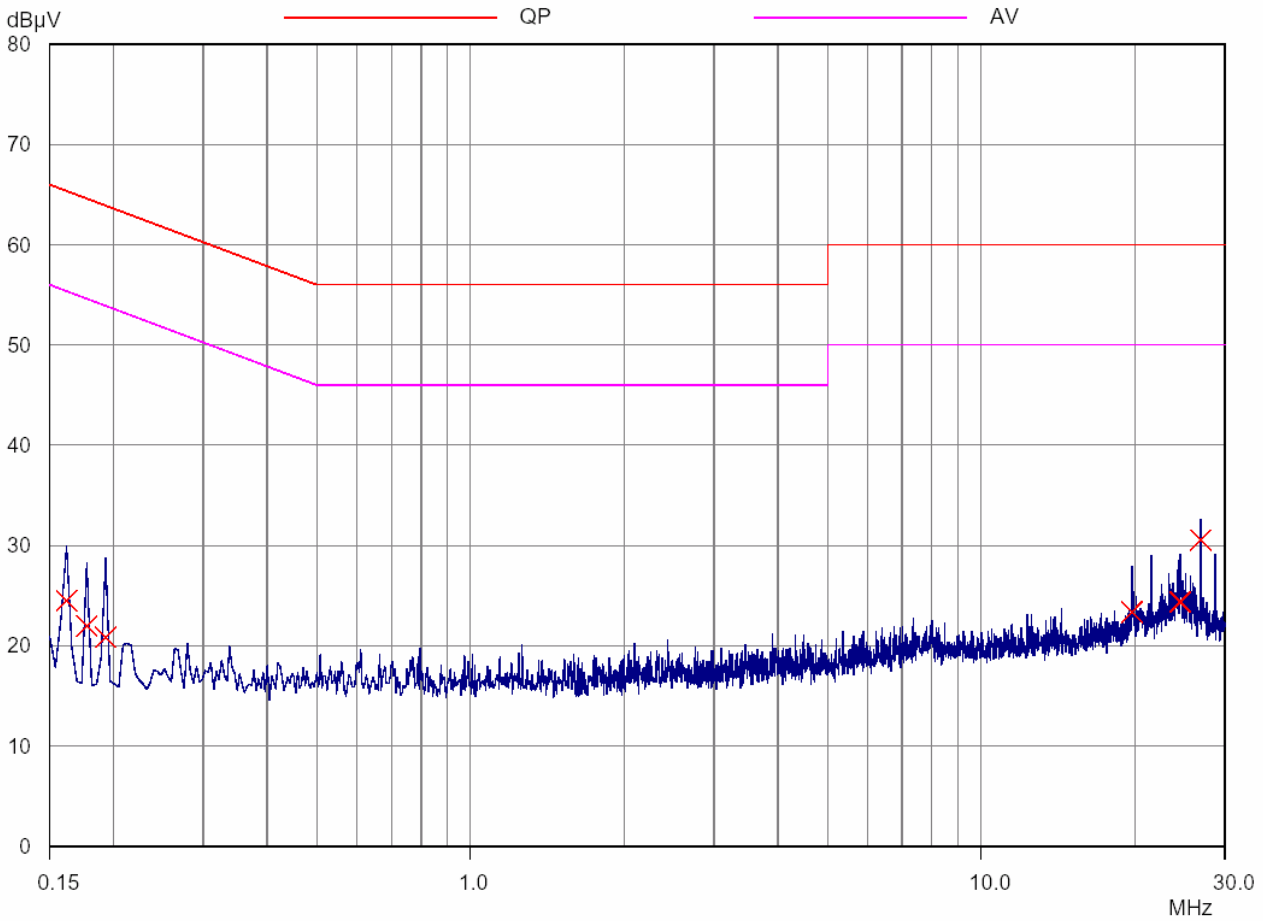
Mode : Handset Unit Only Charger

CONDUCTION EMISSION TEST

Peak Value

EUT:	27980
Manuf:	
Op Cond:	
Operator:	charger
Test Spec:	
Comment:	N

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



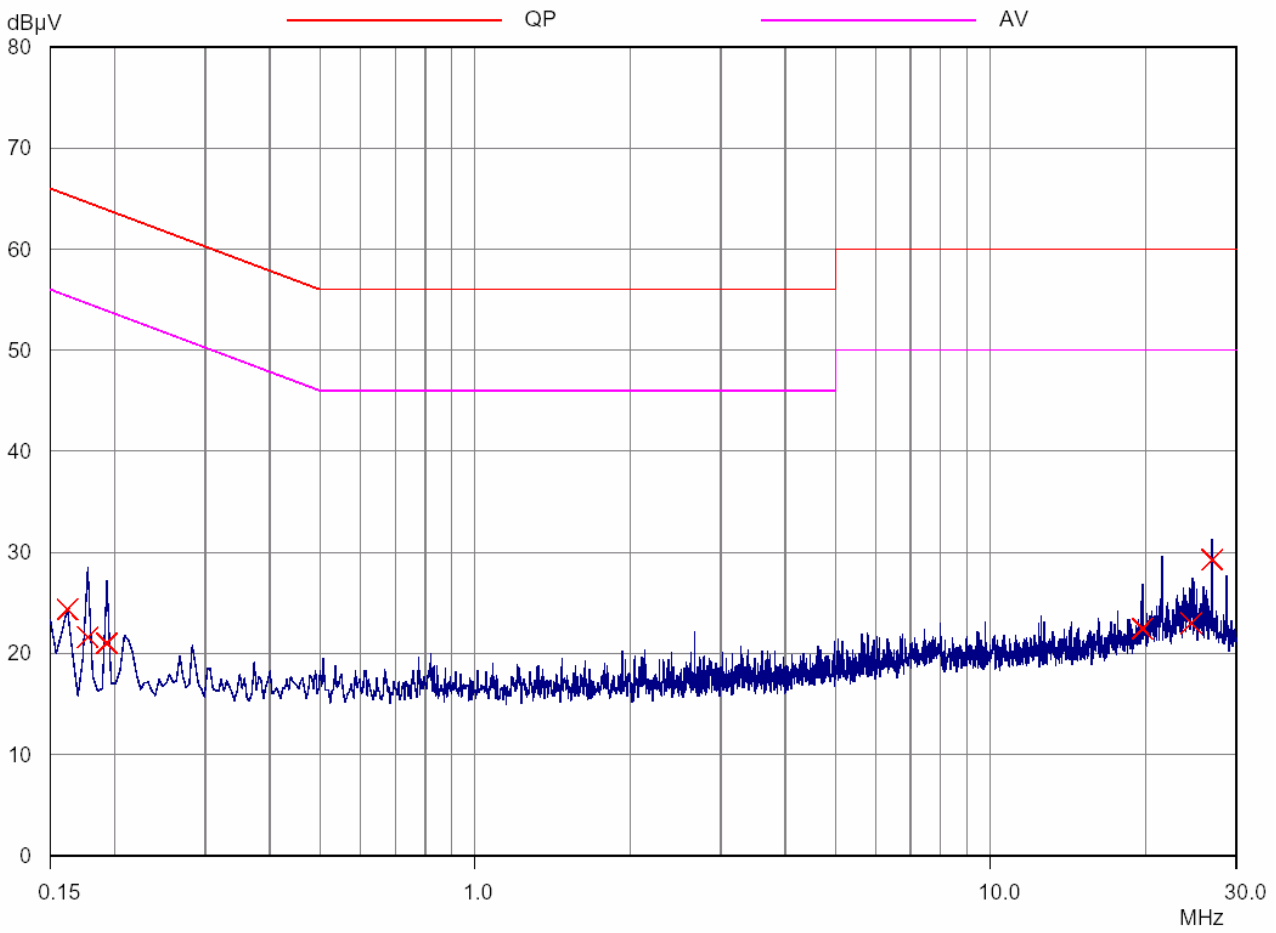
Mode : Handset Unit Only Charger

CONDUCTION EMISSION TEST

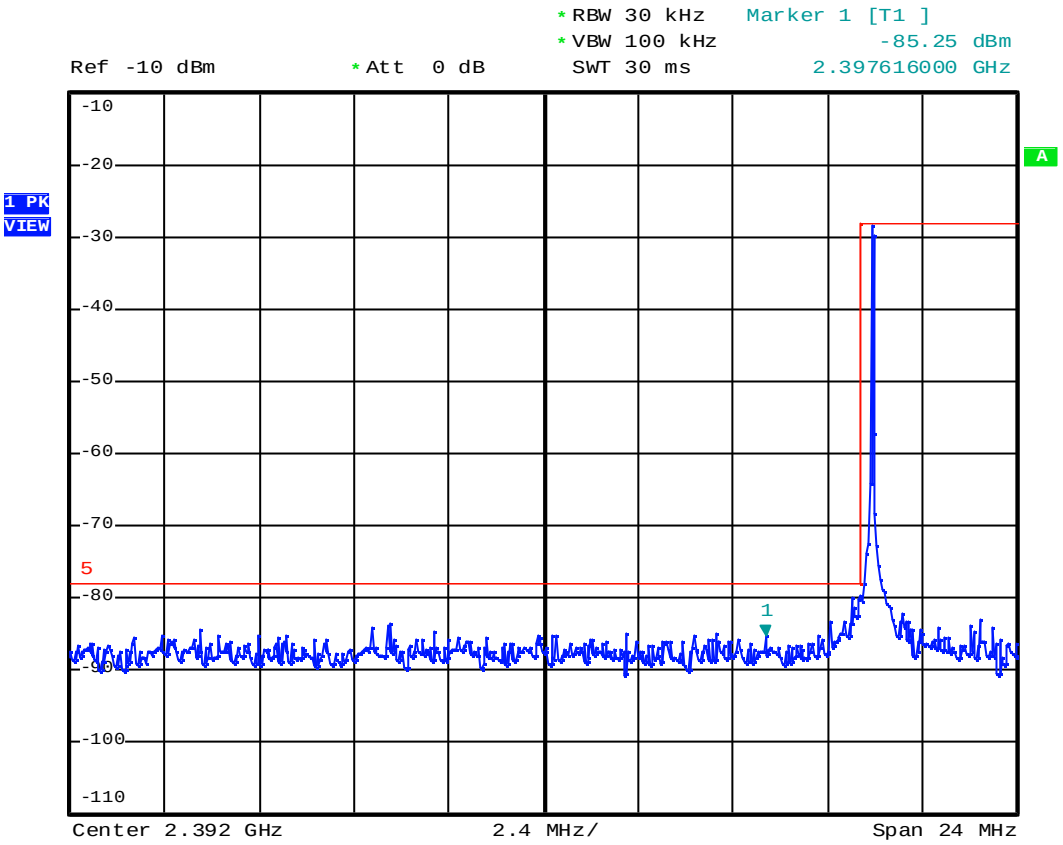
Peak Value

EUT:	27980
Manuf:	
Op Cond:	
Operator:	charger
Test Spec:	
Comment:	L1

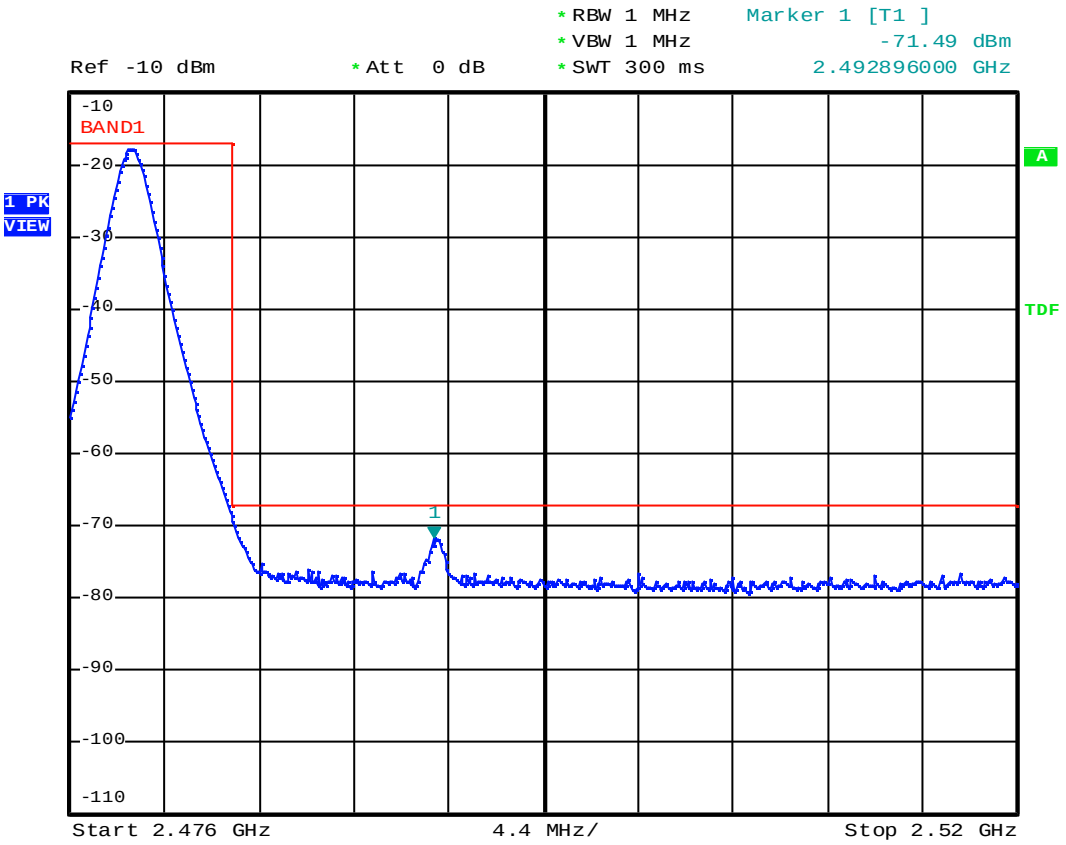
Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



APPENDIX 2 : PLOTTED DATA FOR BAND EDGES EMISSION



Date: 2.DEC.2005 09:39:39



Date: 13.DEC.2005 09:35:45