

MEASUREMENT REPORT of CORDLESS TELEPHONE

Applicant : CIDMATE International Technology Inc.
Model No. : MH9110xx, MH9111xx
(x could be numbers or alphabets)
EUT : 900MHz Analog Cordless Phone
FCC ID : PIZMH91101
Report No. : C5015365

Test by :

Training Research Co., Ltd.

TEL : 886-2-26935155 FAX : 886-2-26934440
No. 255, Nan-yang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C.

CERTIFICATION

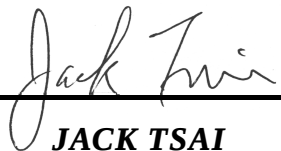
We here by verify that:

The test data, data evaluation, test procedures and equipment configurations shown in this report were made mainly in accordance with the procedures given in ANSI C63.4 (1992) as a reference. All test were conducted by **Training Research Co., Ltd.**, No. 255, Nan-yang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. Also, we attest to the accuracy of each.

We further submit that the energy emitted by the sample EUT tested as described in the report is **in compliance with** the technical requirements set forth in the FCC Rules Part 15 Subpart C Section 15.249.

Applicant : CIDMATE International Technology Inc.
Product Name : 900MHz Analog Cordless Phone
Model No. : MH9110xx, MH9111xx
FCC ID : PIZMH91101
Report No. : C5015365
Test Date : February 15, 2003

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Report No.: C5015365, 900MHz Analog Cordless Phone, FCC Part 15 Class B

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Tables of Contents

I. GENERAL

1.1 Introduction	5
1.2 Description of EUT	5
1.3 Description of Support Equipment	6
1.4 Configuration of System Under Test	7
1.5 Test Procedure	8
1.6 Location of the Test Site	8
1.7 General Test Condition	8

II. Conducted Emissions Measurements

2.1 Test Condition & Setup	9
2.2 List of Test Instruments	9
2.3 Test Result of Conducted Emissions	10

III. Radiated Emissions Measurements

3.1 Test Condition & Setup	13
3.2 List of Test Instruments	13
3.3 Test Result of Radiated Emissions	15
3.4 Test Result of Spurious Radiated Emissions	16

IV. Verify Frequencies and Channels

Appendix A

Appendix B

TABLES

Table 1	Power Line Conducted Emissions [Channel 01].....	10
Table 2	Power Line Conducted Emissions [Channel 40].....	11
Table 3	Power Line Conducted Emissions [Charging mode]	12
Table 4	Fundamental Emissions	15
Table 5	Radiated Emissions [Base Channel 01 Horizontal 30MHz to1GHz]	16
Table 6	Radiated Emissions [Base Channel 01 Vertical 30MHz to 1GHz]	16
Table 7	Radiated Emissions [Base Channel 01 Horizontal 1GHz to 10 GHz]	17
Table 8	Radiated Emissions [Base Channel 01 Vertical 1GHz to 10 GHz]	17
Table 9	Radiated Emissions [Base Channel 40 Horizontal 30MHz to 1GHz]	18
Table 10	Radiated Emissions [Base Channel 40 Vertical 30MHz to 1GHz].....	18
Table 11	Radiated Emissions [Base Channel 40 Horizontal 1GHz to 10 GHz]	19
Table 12	Radiated Emissions [Base Channel 40 Vertical 1GHz to 10 GHz]	19
Table 13	Radiated Emissions [Handset Channel 01 Horizontal 30MHz to 1GHz].....	20
Table 14	Radiated Emissions [Handset Channel 01 Vertical 30MHz to 1GHz].....	20
Table 15	Radiated Emissions [Handset Channel 01 Horizontal 1GHz to 10 GHz].....	21
Table 16	Radiated Emissions [Handset Channel 01 Vertical 1GHz to 10 GHz]	21
Table 17	Radiated Emissions [Handset Channel 40 Horizontal 30MHz to 1GHz].....	22
Table 18	Radiated Emissions [Handset Channel 40 Vertical 30MHz to 1GHz].....	22
Table 19	Radiated Emissions [Handset Channel 40 Horizontal 1GHz to 10 GHz].....	23
Table 20	Radiated Emissions [Handset Channel 40 Vertical 1GHz to 10 GHz]	23
Table 21	Verify the Frequency Pairs	24

I. GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of Applicant in support of a Cordless Telephone certification in accordance with Part 2 Subpart J and Part 15 Subpart A and C of the Commission's Rules and Regulations.

1.2 Description of EUT

Product Name	:	900MHz Analog Cordless Phone
Model No.	:	MH9110xx, MH9111xx (x could be number or alphabets)
FCC ID	:	PIZXMH91101
Frequency Range	:	Base: 902.675 – 904.625 MHz Handset: 925.375 – 927.325 MHz
Support Channel	:	40 Channel
Power Type	:	Base Powered by 120Vac, 60 Hz / 9Vdc, 300mA Handset powered by 3.6 V, 600 mAh
Power Cord	:	cable of power adapter => Non-shielded, 190cm long, No bead
Data Cable	:	RJ-11 x 1 => Non-shielded, 7' long, Plastic hoods, No bead
Applicant	:	CIDMATE International Technology Inc. 3F-B, No. 58, Sec. 1, Minsheng E. Road, Taipei 104, Taiwan

1.3 Description of Support Equipment

In order to construct the minimum testing, following equipment were used as the support units.

PABX	:	King Design
Model No.	:	KD8705-A
Serial No.	:	GV101101186
Power type	:	110 VAC 60Hz
Power cord	:	Non – Shielded, 185cm long
EarphoneMic	:	God Information Inc.
Model No.	:	Net8 EarphoneMic
Data cable	:	118cm long, Non – Shielded

1.4 Configuration of System Under Test

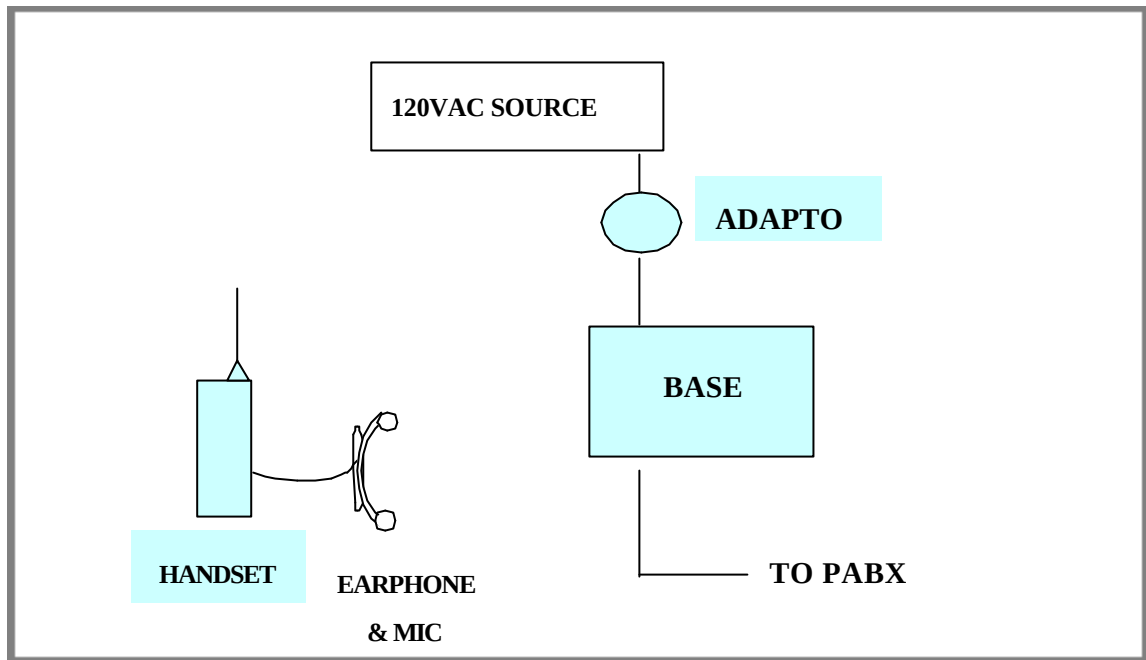


Fig.-1 Configuration of system under test

During testing the EUT was connected to PABX. A diagram of the complete test configuration was shown in Fig-1.

1.5 Test Procedure

All measurements contained in this report were performed mainly according to the techniques described in Measurement procedure ANSI C63.4 (1992).

1.6 Location of the Test Site

The radiated emissions measurements required by the rules were performed on the **three-meter, Anechoic Chamber (Registration Number: 93906)** maintained by *Training Research Co., Ltd.* 1F, No. 255, Nan-yang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. Complete description and measurement data have been placed on file with the commission. The conducted power line emissions tests and other test items were performed in an anechoic chamber also located at Training Research Co., Ltd. 1F, No. 255, Nan-yang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. *Training Research Co., Ltd.* is listed by the FCC as a facility available to do measurement work for others on a contract basis.

1.7 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests was chosen as that which produced the highest emission levels. However, only those conditions which the EUT was considered likely to encounter in normal use were investigated.

In test, the base and handset are tested separately. They were set in Ch01 and Ch40 of EUT and continuously transmitting mode that controlled by test mode of EUT.

II. Conducted Emissions Measurements

2.1 Test Condition & Setup

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the backwall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and Line Impedance Stabilization Networks (LISNs). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in 2.3.

There is a test condition applies in this test item, The setting up procedure is recorded on <1.4>. Three channels were tested, one in the top (CH01) and the other in bottom (CH40).

2.2 List of Test Instruments

<u>Instrument Name</u>	<u>Model No.</u>	<u>Brand</u>	<u>Serial No.</u>	<u>Last time</u>	<u>Next time</u>
EMI Receiver	8546A	H P	3520A00242	06/28/02	06/28/03
RF Filter Section	85460A	H P	3448A00217	06/28/02	06/28/03
LISN (EUT)	LISN-01	TRC	9912-03,04	06/04/02	06/04/03
LISN (Support E.)	LISN-01	TRC	9912-05	07/15/02	07/15/03
Auto Switch Box (< 30MHz)	ASB-01	TRC	9904-01	11/20/02	11/20/03

The level of confidence of 95%, the uncertainty of measurement of conducted emission is $\pm 2.02\text{dB}$.

2.3 Test Result of Conducted Emissions

The following table shows a summary of the highest emissions of power line conducted emissions on the HOT and NATURAL conductors of the EUT power cord.

Table 1 Power Line Conducted Emissions (Channel 1 of base)

Power Connected Emissions					FCC Class B		
Conductor	Frequency (KHz)	Peak (dBmV)	QP (dBmV)	Average (dBmV)	QP-limit (dBmV)	AVG-limit (dBmV)	Margin (dB)
Line 1	205.000	47.14	---	---	64.43	54.43	-7.29
	401.000	43.11	---	---	58.83	48.83	-5.72
	461.000	36.90	---	---	57.11	47.11	-10.21
	504.000	34.17	---	---	56.00	46.00	-11.83
	1230.000	31.06	---	---	56.00	46.00	-14.94
	2012.000	27.63	---	---	56.00	46.00	-18.37
	3741.000	23.73	---	---	56.00	46.00	-22.27
	---	---	---	---	---	---	---
	---	---	---	---	---	---	---
	---	---	---	---	---	---	---
Line 2	203.000	48.62	---	---	64.49	54.49	-5.87
	409.000	43.14	---	---	58.60	48.60	-5.46
	928.000	32.86	---	---	56.00	46.00	-13.14
	1113.000	35.60	---	---	56.00	46.00	-10.40
	1320.000	37.73	---	---	56.00	46.00	-8.27
	2029.000	31.77	---	---	56.00	46.00	-14.23
	3858.000	29.72	---	---	56.00	46.00	-16.28
	---	---	---	---	---	---	---
	---	---	---	---	---	---	---
	---	---	---	---	---	---	---

NOTE:

- (1) Margin = Amplitude – Limit, **The reading amplitudes are all under limit.**
- (2) A "+" sign in the margin column means the emission is OVER the Class B Limit and "-" sign of means UNDER the Class B limit

Table 2 Power Line Conducted Emissions (Channel 40 of base)

Power Connected Emissions					FCC Class B		
Conductor	Frequency (KHz)	Peak (dBmV)	QP (dBmV)	Average (dBmV)	QP-limit (dBmV)	AVG-limit (dBmV)	Margin (dB)
Line 1	203.000	47.14	---	---	64.49	54.49	-7.35
	409.000	42.78	---	---	58.60	48.60	-5.82
	504.000	36.81	---	---	56.00	46.00	-9.19
	1219.000	33.18	---	---	56.00	46.00	-12.82
	2394.000	26.39	---	---	56.00	46.00	-19.61
	2689.000	26.10	---	---	56.00	46.00	-19.90
	3936.000	27.16	---	---	56.00	46.00	-18.84
	---	---	---	---	---	---	---
	---	---	---	---	---	---	---
	---	---	---	---	---	---	---
Line 2	205.000	48.10	---	---	64.43	54.43	-6.33
	405.000	42.03	---	---	58.71	48.71	-6.68
	461.000	36.97	---	---	57.11	47.11	-10.14
	1230.000	38.05	---	---	56.00	46.00	-7.95
	2179.000	32.11	---	---	56.00	46.00	-13.89
	2351.000	31.61	---	---	56.00	46.00	-14.39
	3858.000	31.82	---	---	56.00	46.00	-14.18
	---	---	---	---	---	---	---
	---	---	---	---	---	---	---
	---	---	---	---	---	---	---

NOTE:

- (1)Margin = Amplitude – Limit, **The reading amplitudes are all under limit.**
- (2)A "+" sign in the margin column means the emission is OVER the Class B Limit and "-" sign of means UNDER the Class B limit

Table 3 Power Line Conducted Emissions (Charging mode)

Power Connected Emissions					FCC Class B		
Conductor	Frequency (KHz)	Peak (dBmV)	QP (dBmV)	Average (dBmV)	QP-limit (dBmV)	AVG-limit (dBmV)	Margin (dB)
Line 1	205.000	46.79	---	---	64.43	54.43	-7.64
	405.000	41.73	---	---	58.71	48.71	-6.98
	456.000	37.56	---	---	57.26	47.26	-9.70
	504.000	34.84	---	---	56.00	46.00	-11.16
	1256.000	36.50	---	---	56.00	46.00	-9.50
	2506.000	31.52	---	---	56.00	46.00	-14.48
	3741.000	28.38	---	---	56.00	46.00	-17.62
	5000.000	29.31	---	---	60.00	50.00	-20.69
	7500.000	24.76	---	---	60.00	50.00	-25.24
	17530.000	24.72	---	---	60.00	50.00	-25.28
Line 2	205.000	46.86	---	---	64.43	54.43	-7.57
	409.000	42.78	---	---	58.60	48.60	-5.82
	456.000	38.01	---	---	57.26	47.26	-9.25
	509.000	33.83	---	---	56.00	46.00	-12.17
	1243.000	40.88	---	---	56.00	46.00	-5.12
	2480.000	35.47	---	---	56.00	46.00	-10.53
	3741.000	33.11	---	---	56.00	46.00	-12.89
	4952.000	33.81	---	---	60.00	50.00	-16.19
	7460.000	30.74	---	---	60.00	50.00	-19.26
	17440.000	26.60	---	---	60.00	50.00	-23.40

NOTE:

- (1)Margin = Amplitude – Limit, **The reading amplitudes are all under limit.**
(2)A "+" sign in the margin column means the emission is OVER the Class B Limit
and "-" sign of means UNDER the Class B limit

III. Radiated Emissions Measurements

3.1 Test Condition & Setup

The EUT was placed in an anechoic chamber and scanned at 3 meter distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration which produced the highest emissions was noted so it could be reproduced later during the final tests. This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT.

Final radiation measurements were made on a three-meter, anechoic chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter.

The spectrum was examined from 30 MHz to 1000 MHz using an Hewlett Packard 85460A EMI Receiver, Schwarzeck whole range Small Biconical antenna (Model No.: BBVU9135) is used to measure frequency from 30 MHz to 1GHz. The final test is used the HP 85460A spectrum and 8564E spectrum was examined from 1GHz to 25GHz using an Hewlett Packard Spectrum Analyzer, EMCO/CMT Horn Antenna (Model 3115 / RA42-K-F-4B-C) for 1G - 25GHz.

At each frequency, the handset of EUT stands on three orthogonal planes respectively and the EUT was rotated 360 degrees. The antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. There are two spectrum analyzers use on this testing, HP 8546A for frequency 30MHz to 1000MHz, and HP8564E for frequency 1 GHz to 25GHz. No post-detector video filters were used in the test. The spectrum analyzer's 6 dB bandwidth was set to 120KHz (spectrum was examined from 30 MHz to 1000 MHz), the spectrum analyzer's 6 dB bandwidth was set to 1 MHz (spectrum was examined from 1 GHz to 25GHz) and the analyzer was operated in the maximum hold mode.

The actual field intensity in decibels referenced to 1 microvolt per meter (dB μ V/m) is determined by algebraically adding the measured reading in dB μ V, the antenna factor (dB), and cable loss (dB) at the appropriate frequency.

For frequency between 30MHz to 1000MHz
$$F_{Ia} \text{ (dBì V/m)} = F_{Ir} \text{ (dBì V)} - \text{Correction Factors}$$
$$F_{Ia} : \text{Actual Field Intensity}$$
$$F_{Ir} : \text{Reading of the Field Intensity}$$
$$\text{Correction Factors} = \text{Antenna Factor} + \text{Cable Loss}$$
For frequency between 1GHz to 25GHz
$$F_{Ia} \text{ (dBì V/m)} = F_{Ir} \text{ (dBì V)} + \text{Correction Factor}$$
$$F_{Ia} : \text{Actual Field Intensity}$$
$$F_{Ir} : \text{Reading of the Field Intensity}$$
$$\text{Correction Factors} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$
3.2 List of Test Instruments

<u>Instrument Name</u>	<u>Model No.</u>	<u>Brand</u>	<u>Serial No.</u>	<u>Last time</u>	<u>Next time</u>
EMI Receiver	8546A	H P	3520A00242	06/28/02	06/28/03
RF Filter Section	85460A	H P	3448A00217	06/28/02	06/28/03
Small Biconical Antenna and Balun	BBVU9135 UBAA9114	Schwarzeck	127	05/07/02	05/07/03
Switch/Control Unit (>30MHz)	3488A	HP	N/A	11/20/02	11/20/03
Auto Switch Box (>30MHz)	ASB-01	TRC	9904-01	11/20/02	11/20/03
Spectrum Analyzer	8564E	HP	US36433002	08/01/02	08/01/03
Microwave Preamplifier	83051A	HP	3232A00347	08/01/02	08/01/03
Horn Antenna	3115	EMCO	9704 – 5178	08/01/02	08/01/03
Anechoic Chamber (cable calibrated together)				05/20/02	05/20/03

The level of confidence of 95% , the uncertainty of measurement of radiated emission is $\pm 3.44\text{dB}$.

3.3 Test Result of Radiated Emissions

The peak values of fundamental emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Testing room : Temperature : 20.2 ° C Humidity : 57.6 % RH

Table 4 Fundamental Emissions

Channel	Frequency (MHz)	A. P. (H/V)	A.H. (m)	Table (degree)	Peak (dBi V/m)	Limit (dBi V)	Margin (dBi V)
Base 1	902.675	H	1.00	355	91.04	94.00	-2.96
		V	1.00	78	84.71	94.00	-9.29
Base 40	904.625	H	1.00	296	91.65	94.00	-2.35
		V	1.00	68	84.05	94.00	-9.95
Handset 1	925.375	H	1.00	198	82.64	94.00	-11.36
		V	1.00	231	76.60	94.00	-17.40
Handset 40	927.325	H	1.00	191	83.18	94.00	-10.82
		V	1.00	204	78.43	94.00	-15.57

Note:

1. A. P. means antenna polarization, horizontal and vertical.
2. A. H. means antenna height.
3. Table means turntable turning position.
4. Peak Amplitude means the fundamental emission measured.
5. Margin = Amplitude - limit

3.4 Test Result of Spurious Radiated Emissions

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Testing room : Temperature : 20.2 ° C Humidity : 57.6 % RH

Table 5 Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Base Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBμ V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dBμ V)	Ant. H. (m)	Table (°)			Limit (dBμ V/m)	Margin (dB)

Table 6 Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Base Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBμ V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dBμ V)	Ant. H. (m)	Table (°)			Limit (dBμ V/m)	Margin (dB)

Note:

1. Margin = Corrected Amplitude – Limit.
2. Corrected Amplitude = Peak Amplitude – Correction Factors.
3. **The emissions all passed by more than 20dB margin.**

Table 7 Open Field Radiated Emissions for 1GHz ~ 10 GHz [Channel 01, Base Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
1805.00	37.91	1.00	133	1.54	39.45	53.96	-14.51
2706.67	29.74	1.00	286	8.19	37.93	53.96	-16.03

Table 8 Open Field Radiated Emissions for 1GHz ~ 10 GHz [Channel 01, Base Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
1805.00	41.08	1.00	79	1.54	42.62	53.96	-11.34
2706.67	31.74	1.00	224	8.19	39.93	53.96	-14.03

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor = Corrected.

Table 9 Radiated Emissions for 30MHz ~ 1GHz [Channel 40, Base Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBì V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)			Limit (dBì V/m)	Margin (dB)

Table 10 Radiated Emissions for 30MHz ~ 1GHz [Channel 40, Base Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBì V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)			Limit (dBì V/m)	Margin (dB)

Note:

1. Margin = Corrected Amplitude – Limit.
2. Corrected Amplitude = Peak Amplitude – Correction Factors.
3. **The emissions all passed by more than 20dB margin.**

Table 11 Radiated Emissions for 1GHz ~ 10 GHz [Channel 40, Base Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
1808.33	36.07	1.00	307	1.60	37.67	53.96	-16.29
2713.33	29.58	1.00	145	8.22	37.80	53.96	-16.16

Table 12 Radiated Emissions for 1GHz ~ 10 GHz [Channel 40, Base Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
1808.33	39.40	1.00	297	1.60	41.00	53.96	-12.96
2713.33	32.08	1.00	177	8.22	40.30	53.96	-13.66

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor = Corrected

Table 13 Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Handset Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBì V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)			Limit (dBì V/m)	Margin (dB)

Table 14 Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Handset Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBì V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)			Limit (dBì V/m)	Margin (dB)

Note:

1. Margin = Corrected Amplitude – Limit.
2. Corrected Amplitude = Peak Amplitude – Correction Factors.
3. **The emissions all passed by more than 20dB margin.**

Table 15 Radiated Emissions for 1GHz ~ 10 GHz [Channel 01, Handset Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
1850.00	43.07	1.00	49	2.27	45.34	53.96	-8.62
2775.00	40.57	1.00	147	8.52	49.09	53.96	-4.87

Table 16 Radiated Emissions for 1GHz ~ 10 GHz [Channel 01, Handset Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
1850.00	40.74	1.00	349	2.27	43.01	53.96	-10.95
2775.00	40.07	1.00	150	8.52	48.59	53.96	-5.37

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor = Corrected

Table 17 Radiated Emissions for 30MHz ~ 1GHz [Channel 40, Handset Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBì V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)			Limit (dBì V/m)	Margin (dB)

Table 18 Radiated Emissions for 30MHz ~ 1GHz [Channel 40, Handset Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBì V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dBì V)	Ant. H. (m)	Table (°)			Limit (dBì V/m)	Margin (dB)

Note:

1. Margin = Corrected Amplitude – Limit.
2. Corrected Amplitude = Peak Amplitude – Correction Factors.
3. **The emissions all passed by more than 20dB margin.**

Table 19 Radiated Emissions for 1GHz ~ 10 GHz [Channel 40, Handset Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
1855.00	43.74	1.00	98	2.35	46.09	53.96	-7.87
2780.00	38.40	1.00	140	8.54	46.94	53.96	-7.02

Table 20 Radiated Emissions for 1GHz ~ 10 GHz [Channel 40, Handset Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dB μ V/m)	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dB μ V)	Ant. H. (m)	Table (°)			Limit (dB μ V/m)	Margin (dB)
1855.00	44.57	1.00	108	2.35	46.92	53.96	-7.04
2780.00	42.74	1.00	22	8.54	51.28	53.96	-2.68

Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor = Corrected

. Verify Frequencies and Channels

This is for sure that all frequencies are in 902MHz to 928MHz that verifies the frequency as follow

Table 21 Verify the Frequency Pairs

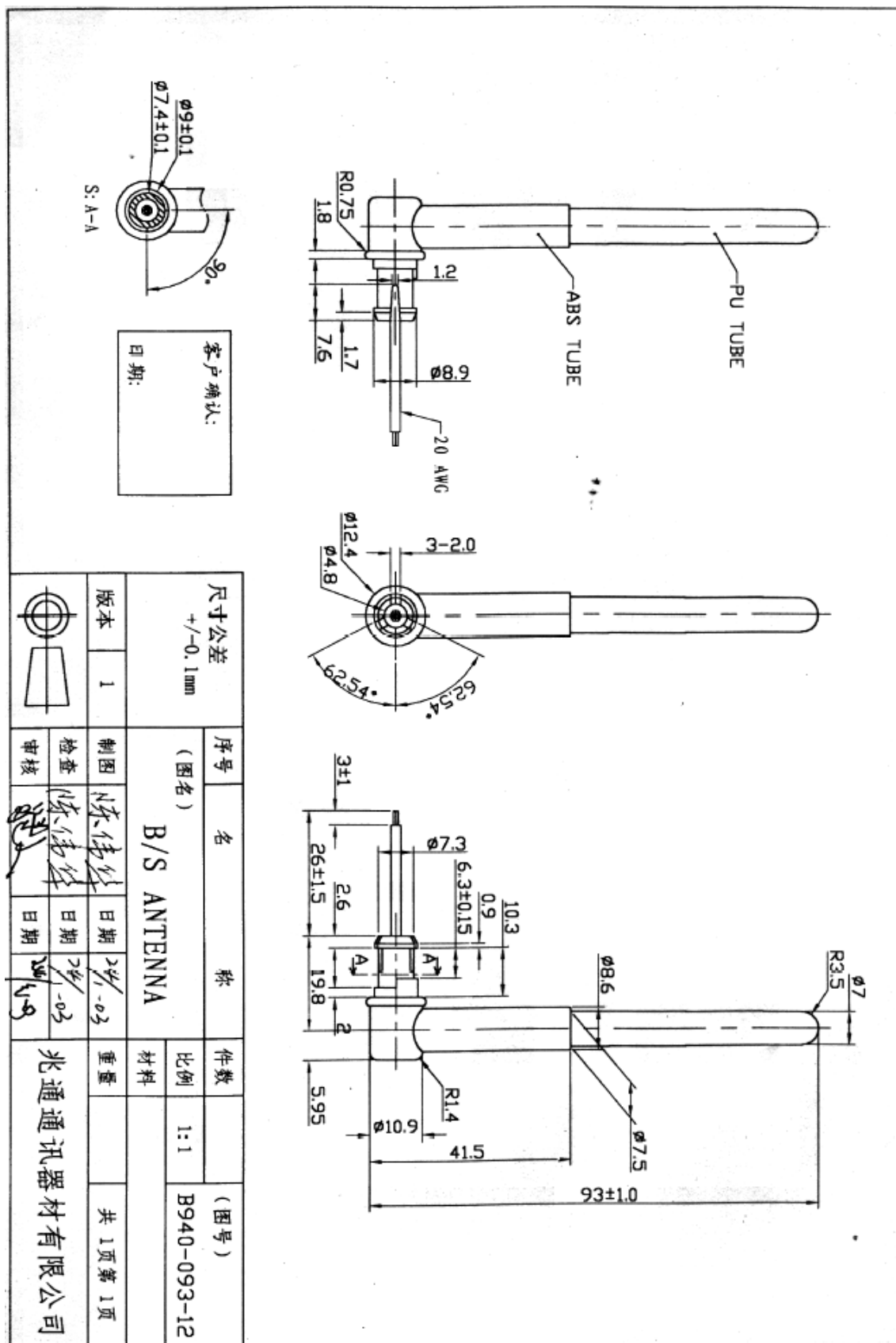
Channel	Base (MHz)	Handset (MHz)	Channel	Base (MHz)	Handset (MHz)
1	902.675	925.375	21	903.675	926.375
2	902.725	925.425	22	903.725	926.425
3	902.775	925.475	23	903.775	926.475
4	902.825	925.525	24	903.825	926.525
5	902.875	925.575	25	903.875	926.575
6	902.925	925.625	26	903.925	926.625
7	902.975	925.675	27	903.975	926.675
8	903.025	925.725	28	904.025	926.725
9	903.075	925.775	29	904.075	926.775
10	903.125	925.825	30	904.125	926.825
11	903.175	925.875	31	904.175	926.875
12	903.225	925.925	32	904.225	926.925
13	903.275	925.975	33	904.275	926.975
14	903.325	926.025	34	904.325	927.025
15	903.375	926.075	35	904.375	927.075
16	903.425	926.125	36	904.425	927.125
17	903.475	926.175	37	904.475	927.175
18	903.525	926.225	38	904.525	927.225
19	903.575	926.275	39	904.575	927.275
20	903.625	926.325	40	904.625	927.325

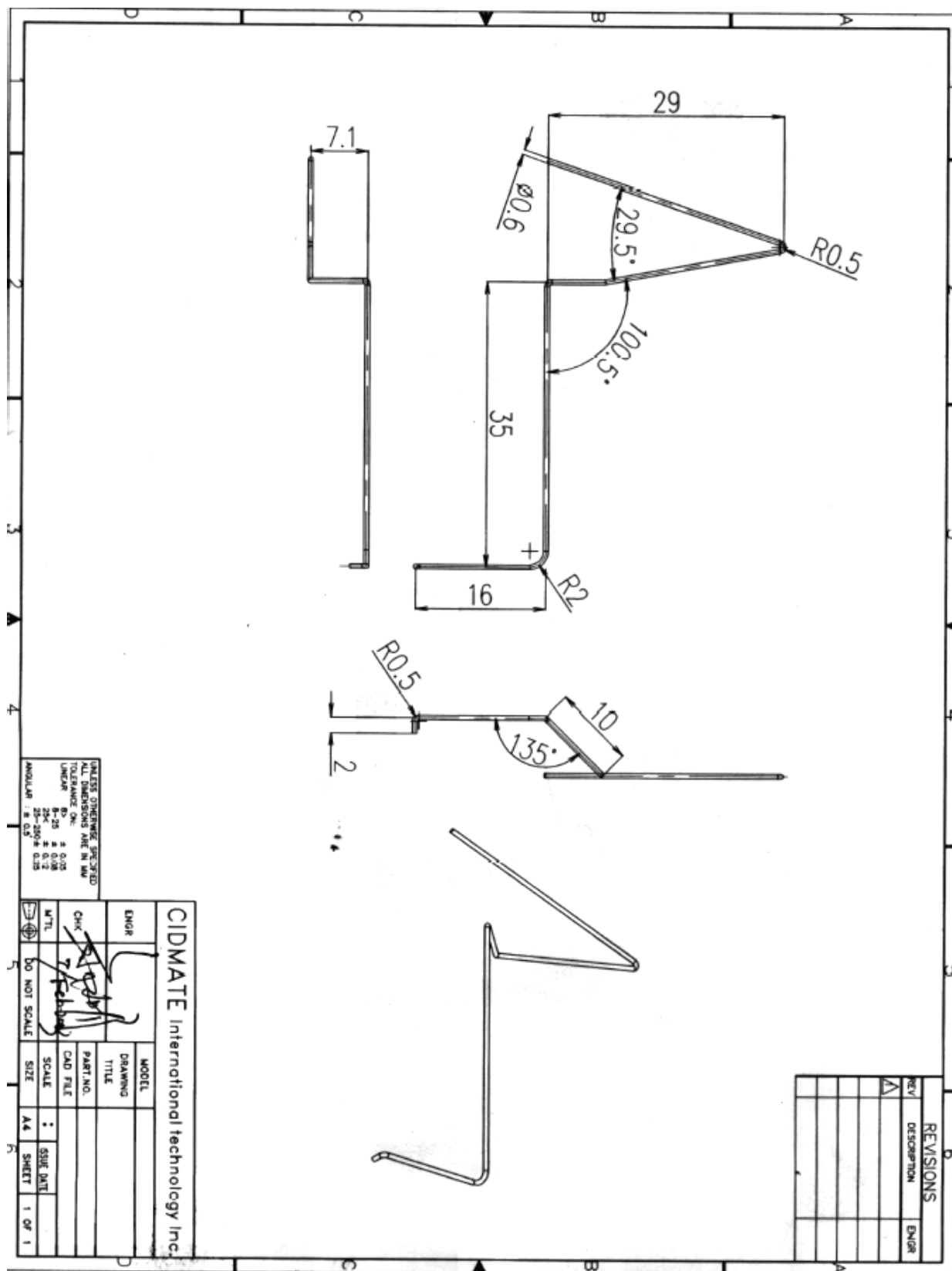
Section 15.214(d) The security code is set automatic:

Every time when you place the handset in the base, your cordless will randomly select over one million possible security codes.

Appendix A

The antenna of the device is screwed inside the device. The user can not remove it freely without any tools from outside the device. This is comply with the FCC rules part 15.203





Appendix B

§ 15.245 (b)(3) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation, as following:

Base Channel 1

Frequency (MHz)	Peak Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
901.995	30.77	46.00	-15.23

Handset Channel 40

Frequency (MHz)	Peak Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
929.050	31.25	46.00	-14.75