EXHIBIT B

Measurement Report

MEASUREMENT REPORT
of
CORDLESS TELEPHONE

Applicant	:	DBTEL INCORPORATED
Model	:	DB-8113
EUT	:	900 MHz Analog One Line Cordless Phone
FCC ID	:	BW3DB-8113
Report No.	:	D0415964

Test by :

Training Research Co., Ltd.

TEL : 886-2-26935155 FAX : 886-2-26934440

2, Lane 194, Huan-Ho Street, Hsichih, 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.***, 2, Lane 194, Huan-Ho Street, Hsichi, 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	:	DBTEL INCORPORATED
Model	:	DB-8113
EUT	:	900 MHz Analog One Line Cordless Phone
FCC ID	:	BW3DB-8113
Report No.	:	D0415964
Test Date	:	Jan. 29, 1999

Prepared by: JACK TSAI

Approved by: FRANK TSAI

Test by :

Training Research Co., Ltd.

TEL : 886-2-26935155 FAX : 886-2-26934440

2, Lane 194, Huan-Ho Street, Hsichih, Taipei Hsien 221, Taiwan, R.O.C.

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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

EUT	:	900MHz Analog One Line Cordless Phone
Model	:	DB-8113
FCC ID	:	BW3DB-8113
Frequency Range	:	Base: 902.3 – 906.1 MHz Handset: 923.9 – 927.7 MHz
Support Channel	:	20 Channel
Power Type	:	Base Powered by 120 Vac 60 Hz / 12 Vdc 200 mA Handset powered by 3.6 V / 600 mAh.
Power Cord	:	Non-shielded
Data Cable	:	RJ-11C x 1 => Non-shielded, 7' long, Plastic hoods, No bead Headset & MIC. => Non-shielded, 217cm long, Plastic hoods, No bead
Applicant	:	DBTEL INCORPORATED 29 Tzu-Chiang Street, Tu-Cheng, Taipei Hsien, Taiwan, R.O.C.

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 50/60Hz
Power cord	:	Non - Shielded

1.4 Configuration of System Under Test

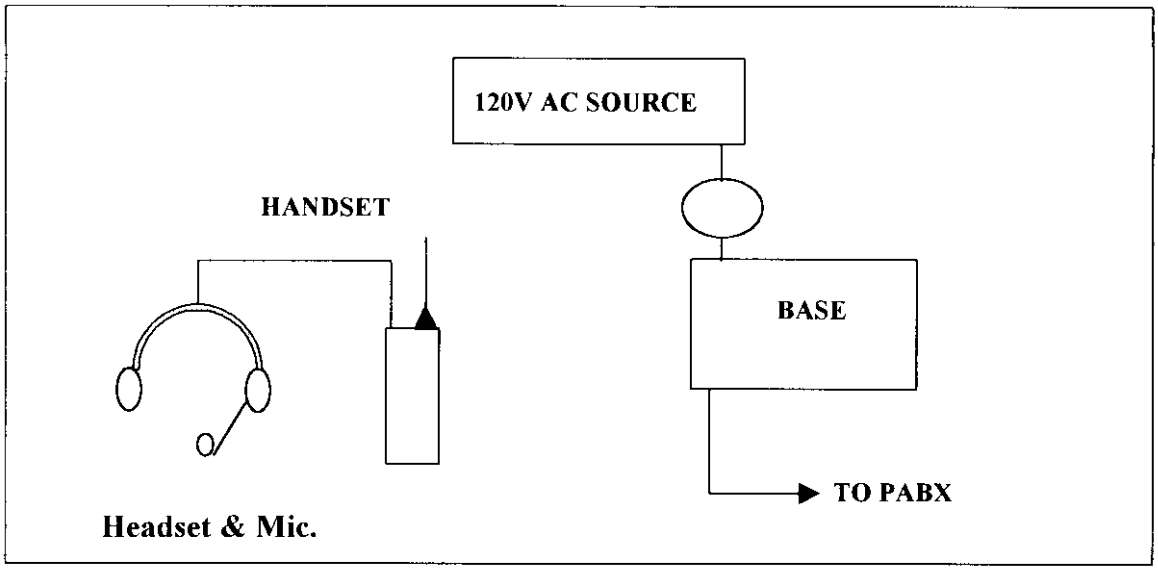


Fig. 1 Configuration of system under test

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, open-field test site maintained by Training Research Co., Ltd. No. 5-3, Lane 21, Yen-Chiu-Yuan Rd., Sec. 4, Taipei, 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 a shielded enclosure also located at Training Research Co., Ltd. 2, Lane 194, Huan-Ho Street, Hsichih. 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, Ch20 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 EMCO Model 3825/2 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 CISPER 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 450 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 paragraph 2.4.

There are tree test condition apply in this test item, the test procedure description as the following:

2.2 List of Test Instruments

Manufacturer	Device	Model	Input impedance
Hewlett Packard	100Hz-1.5GHz Spectrum Analyzer	HP8591EM	50.00
EMCO	Line Impedance Stabilization Network	3825/2	50.00
TRC	Shielded Room	TRC-SR!	N/A

2.3 Test Configuration of Conducted Emission

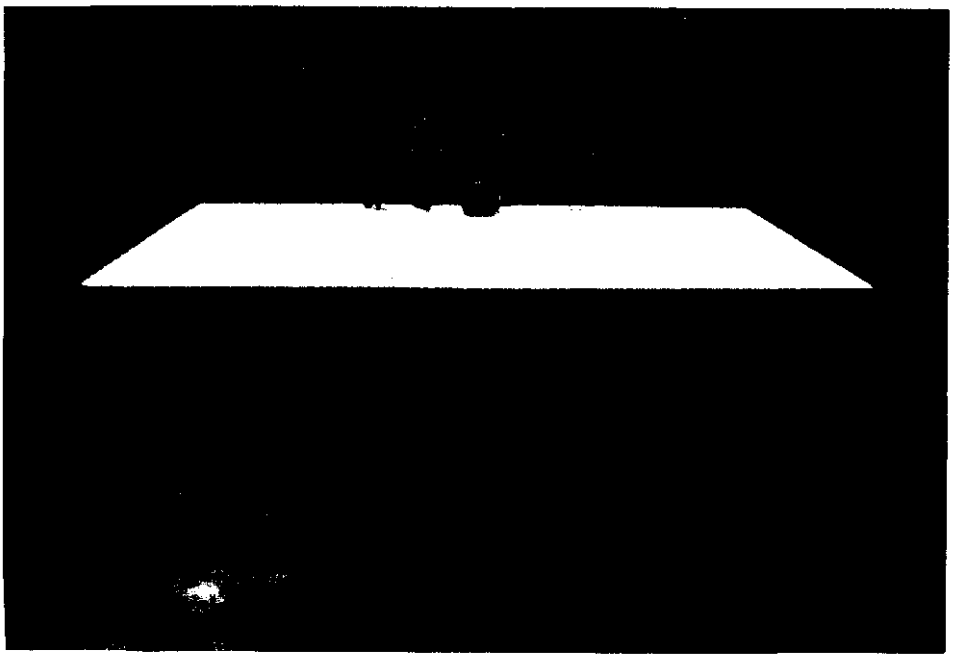


Fig. 1 Conducted Emissions Test Configuration (Idle only)

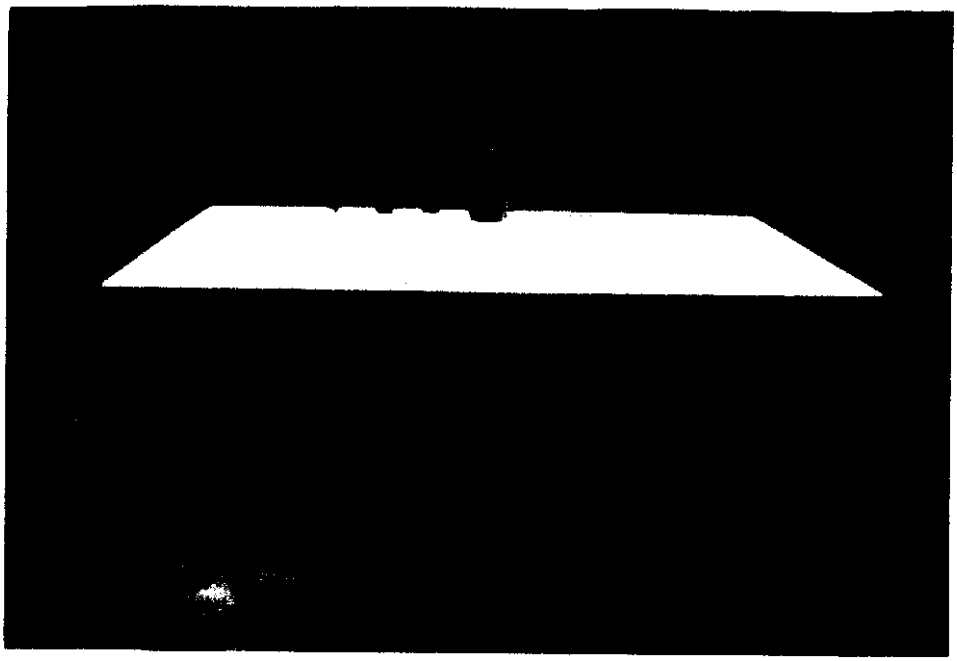


Fig. 2 Conducted Emissions Test Configuration (Operating only)

2.4 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.

Model No. : DB-8113
EUT : 900MHz Analog One Line Cordless Phone

Table 1 Power Line Conducted Emissions (Charge Mode)

Power Conductor	Connected Frequency (KHz)	Emissions Peak Amplitude (dBuV)	FCC Class B Limit (dBuV)	Margin (dB)
Line 1	764.00	21.81	48.00	-26.19
	783.00	21.72	48.00	-26.28
	7990.00	23.51	48.00	-24.49
	20000.00	22.39	48.00	-25.61
	24120.00	21.76	48.00	-26.24
	28160.00	23.64	48.00	-24.36
	***			
LINE 2	7990.00	23.18	48.00	-24.82
	20000.00	22.44	48.00	-25.56
	28160.00	23.57	48.00	-24.43
	***			

NOTE:
1. Margin = Peak Amplitude - 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 01)

Power Conductor	Connected Frequency (KHz)	Emissions Peak Amplitude (dBuV)	FCC Class B Limit (dBuV)	Margin (dB)
Line 1	24120.00	21.53	48.00	-26.47
	***			
LINE 2	24120.00	23.39	48.00	-24.61
	***			

Table 3 Power Line Conducted Emissions (Channel 20)

Power Conductor	Connected Frequency (KHz)	Emissions Peak Amplitude (dBuV)	FCC Class B Limit (dBuV)	Margin (dB)
Line 1	764.00	21.51	48.00	-26.49
	24120.00	21.55	48.00	-26.45
	28160.00	20.28	48.00	-27.72
	***			
LINE 2	24120.00	22.55	48.00	-25.45
	***			

III. Radiated Emissions Measurements

3.1 Test Condition & Setup

Prior to open-field testing, the EUT was placed in a shielded enclosure and scanned at a close 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 open-field 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, open-field test site. 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 8594EM Spectrum Analyzer, EMCO whole range Antenna is used to measure frequency from 30 MHz to 1GHz.The final test is used the spectrum HP 8594EM and spectrum was examined from 1 GHz to 18GHz using an Hewlett Packard 8592A Spectrum Analyzer, EMCO Horn Antenna (Model 3115) for 1 G - 18 GHz.

At each frequency, the EUT was rotated 360 degrees, and 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 , HP8568b for frequency 30MHz to 1000MHz, and HP8592A for frequency 1 GHz to 18 GHz. No post-detector video filters were used in the test. The spectrum analyzer's 6 dB bandwidth was set to 120 KHz (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 18GHz) and the analyzer was operated in the maximum hold mode.

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

For frequency between 30MHz to 1000MHz

FIa (dBuV/m) = FIr (dBuV) + Correction Factors

FIa : Actual Field Intensity

FIr : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss

For frequency between 1GHz to 18GHz

FIa (dBuV/m) = FIr (dBuV) + Correction Factor

FIa : Actual Field Intensity

FIr : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss – Distance Factor (9.54dB) – Amplifier Gain

3.2 List of Test Instruments

Manufacturer	Device	Model	Input Impedance
Hewlett Packard	.100Hz – 1.5GHz Spectrum Analyzer	HP8568B	50.00
Hewlett Packard	.10KHz – 1GHz Quasi-peak Adapter	HP85650A	50.00
Hewlett Packard	.20Hz – 2GHz RF Preselector	HP85685A	50.00
Hewlett Packard	.50KHz – 22GHz Spectrum Analyzer	HP8592A	50.00
Hewlett Packard	.9KHz – 2.9GHz Spectrum Analyzer	HP8594EM	50.00

3.4 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.

Model No. : DB-8113

EUT : 900MHz Analog One Line Cordless Phone

Table 4 Open Field Fundamental Emissions

Channel	Frequency (MHz)	A.P. (H/V)	A.H. (CM)	Table (degree)	Amplitude (Peak) (dBuV/m)	Limit (dBuV)	Margin (dBuV)
Base 01	902.290	H	100.00	21.00	78.95	94.00	-15.05
		V	100.00	130.00	88.95	94.00	-5.05
Base 20	906.090	H	100.00	110.00	79.22	94.00	-14.78
		V	100.00	217.00	87.52	94.00	-6.48
Handset 01	923.900	H	100.00	5.00	85.98	94.00	-8.02
		V	100.00	32.00	92.18	94.00	-1.82
Handset 20	927.700	H	100.00	219.00	83.58	94.00	-10.42
		V	100.00	327.00	91.08	94.00	-2.92

Note:

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

3.5 Test Result of Spurious Radiated Emissions

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

Model No. : DB-8113

EUT : 900MHz Analog One Line Cordless Phone

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

Radiated Emission				Correction Factors	Corrected Amplitude	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table ( )	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
453.930	33.30	4.00	9	-2.91	30.39	46.00	-15.61
934.600	24.50	1.00	121	7.78	32.28	46.00	-13.72
***							

Note:

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

Table 6 Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 01, Base Horizontal]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dB)		Limit (dBuV/m)	Margin (dB)
1.860	49.14	100.00	139	-8.67	-9.54	30.93	54	-23.07
2.798	58.66	100.00	280	-6.84	-9.54	42.28	54	-11.72
2.858	58.33	100.00	12	-6.84	-9.54	41.95	54	-12.05
4.200	53.80	100.00	86	-5.64	-9.54	38.62	54	-15.38
***								

Note:

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

Table 7 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Base Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)		Limit (dBuV/m)	Margin (dB)
453.930	41.20	4.00	27	-2.91	38.29	46.00	-7.71
934.600	30.30	1.00	248	7.78	38.08	46.00	-7.92
***							

Table 8 Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 01, Base Vertical]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dB)		Limit (dBuV/m)	Margin (dB)
1.860	50.80	100.00	39	-8.67	-9.54	32.59	54	-21.41
2.798	59.31	100.00	287	-6.84	-9.54	42.93	54	-11.07
2.858	62.47	100.00	123	-6.84	-9.54	46.09	54	-7.91
4.200	54.44	100.00	56	-5.64	-9.54	39.26	54	-14.74
***								

Table 9 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 20, Base Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
451.190	31.10	1.00	140	-3.04	28.06	46.00	-17.94
453.960	34.70	4.00	329	-2.91	31.79	46.00	-14.21
***							

Table 10 Open Ficld Radiated Emissions For 1GHz ~ 18GHz [Channel 20, Base Horizontal]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dB)		Limit (dBuV/m)	Margin (dB)
1.878	48.66	100.00	269	-8.67	-9.54	30.45	54	-23.55
2.813	60.00	100.00	27	-6.84	-9.54	43.62	54	-10.38
4.223	53.96	100.00	318	-5.64	-9.54	38.78	54	-15.22
4.688	41.91	100.00	355	3.91	-9.54	36.28	54	-17.72
***								

Table 11 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 20, Base Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)		Limit (dBuV/m)	Margin (dB)
451.190	24.50	4.00	120	-3.04	21.46	46.00	-24.54
453.960	42.80	4.00	178	-2.91	39.89	46.00	-6.11
***							

Table 12 Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 20, Base Vertical]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dB)		Limit (dBuV/m)	Margin (dB)
1.878	51.16	100.00	211	-8.67	-9.54	32.95	54	-21.05
2.813	58.66	100.00	235	-6.84	-9.54	42.28	54	-11.72
4.223	54.63	100.00	146	-5.64	-9.54	39.45	54	-14.55
4.688	42.41	100.00	177	3.91	-9.54	36.78	54	-17.22
***								

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

Radiated Emission				Correction Factors	Corrected Amplitude	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table ( )	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
461.950	24.40	1.00	254	-2.53	21.87	46.00	-24.13
***							

Table 14 Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 01, Handset Horizontal]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)	(dB)	(dB)		Limit (dBuV/m)	Margin (dB)
1.783	45.99	100.00	91	-8.67	-9.54	27.78	54	-26.22
2.221	51.66	100.00	275	-8.67	-9.54	33.45	54	-20.55
2.671	51.49	100.00	144	-8.67	-9.54	33.28	54	-20.72
***								

Table 15 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 01, Handset Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)		Limit (dBuV/m)	Margin (dB)
461.950	33.30	1.00	24	-2.53	30.77	46.00	-15.23
***							

Table 16 Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 01, Handset Vertical]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)	(dB)	(dB)		Limit (dBuV/m)	Margin (dB)
1.783	52.99	100.00	287	-8.67	-9.54	34.78	54	-19.22
2.221	51.16	100.00	33	-8.67	-9.54	32.95	54	-21.05
2.671	52.16	100.00	158	-8.67	-9.54	33.95	54	-20.05
***								

Table 17 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 20, Handset Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
460.850	32.20	1.00	319	-2.58	29.62	46.00	-16.38
464.220	29.30	1.00	24	-2.42	26.88	46.00	-19.12
***							

Table 18 Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 20, Handset Horizontal]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
1.790	51.49	100.00	256	-8.67	-9.54	33.28	54	-20.72
2.238	52.33	100.00	187	-8.67	-9.54	34.12	54	-19.88
2.683	53.49	100.00	88	-8.67	-9.54	35.28	54	-18.72
***								

Table 19 Open Field Radiated Emissions for 30MHz ~ 1GHz [Channel 20, Handset Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)		Limit (dBuV/m)	Margin (dB)
460.850	27.30	1.00	14	-2.58	24.72	46.00	-21.28
464.220	29.90	1.00	315	-2.42	27.48	46.00	-18.52
***							

Table 20 Open Field Radiated Emissions for 1GHz ~ 18GHz [Channel 20, Handset Vertical]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (GHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)	(dB)	(dB)		Limit (dBuV/m)	Margin (dB)
1.790	54.49	100.00	18	-8.67	-9.54	36.28	54	-17.72
2.238	49.83	100.00	275	-8.67	-9.54	31.62	54	-22.38
2.683	52.33	100.00	148	-8.67	-9.54	34.12	54	-19.88
***								

V. Verify Frequencies and Channels

Table 21. Verify the Frequency Pairs

Channel	Handset (MHz)	Base (MHz)	Channel	Handset (MHz)	Base (MHz)
1	923.9	902.3	11	925.9	904.3
2	924.1	902.5	12	926.1	904.5
3	924.3	902.7	13	926.3	904.7
4	924.5	902.9	14	926.5	904.9
5	924.7	903.1	15	926.7	905.1
6	924.9	903.3	16	926.9	905.3
7	925.1	903.5	17	927.1	905.5
8	925.3	903.7	18	927.3	905.7
9	925.5	903.9	19	927.5	905.9
10	925.7	904.1	20	927.7	906.1

Note:

1. This is for sure that all frequencies are in 902 MHz to 928 MHz.

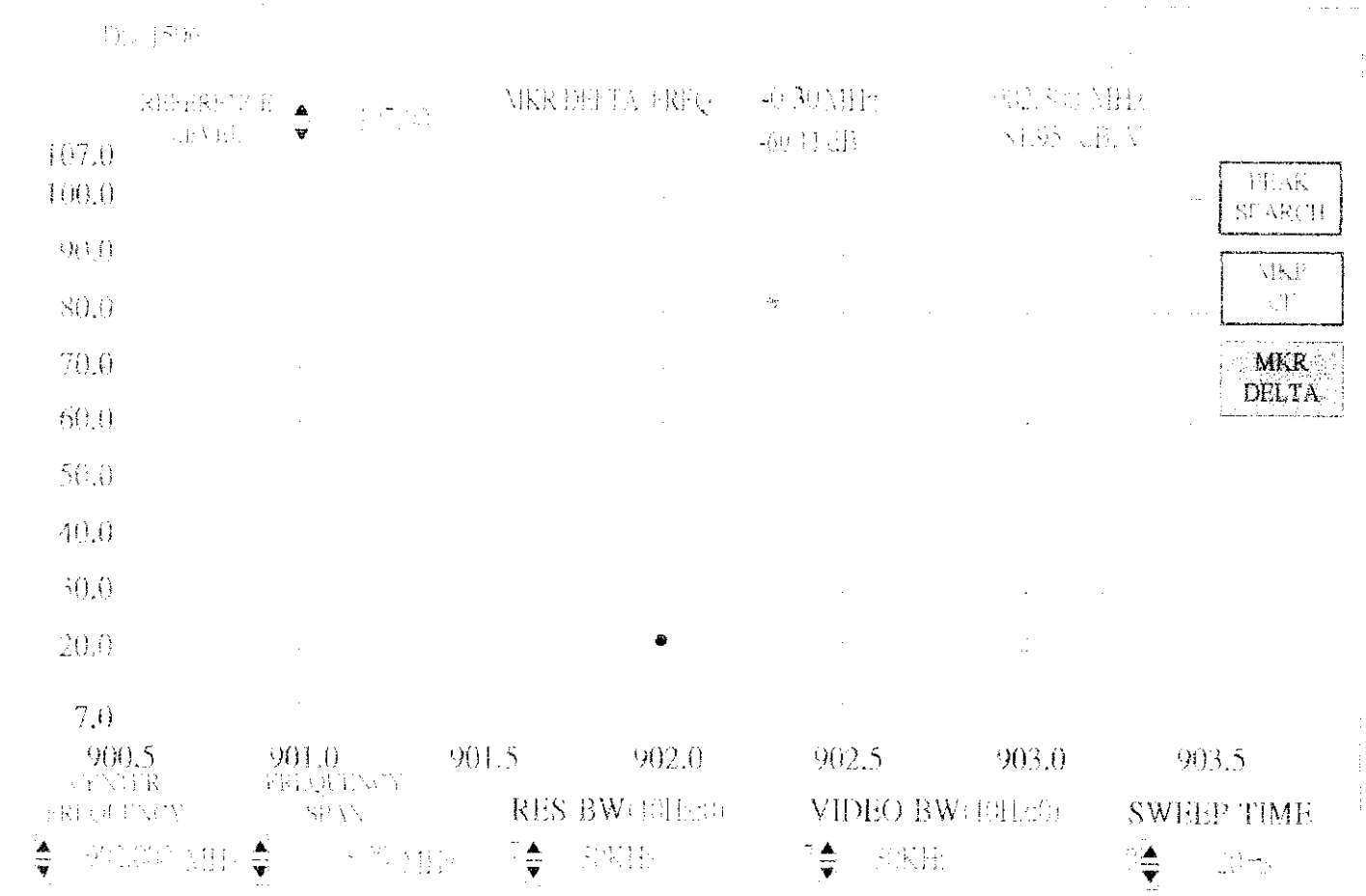
Section 15.214(d) <u>The security code is set automatic :</u>

Every time when you place the handset in the base, your cordless will randomly select one of 65,530 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

900MZa.vi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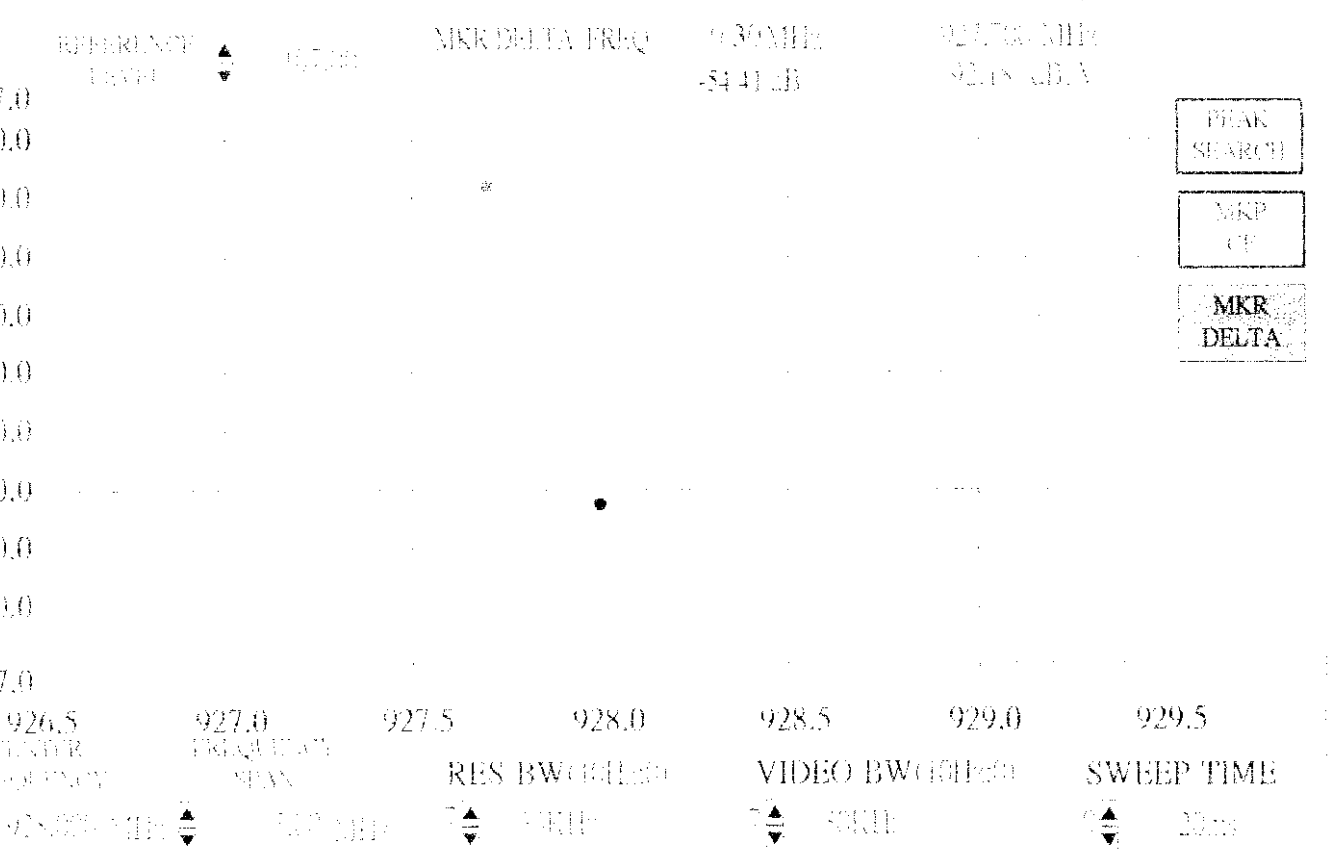
VIDEO BW (BELL50)
SWEEP TIME

900MZa.vi


MKR DELTA FREQ
-54.41 dB
PEAK SEARCH
MKP CF
MKR DELTA
107.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
7.0
926.5
927.0
927.5
928.0
928.5
929.0
929.5
RES BW
VIDEO BW
SWEEP TIME