

EXHIBIT B

Measurement Report

MEASUREMENT REPORT of CORDLESS TELEPHONE

Applicant : RDIOSHACK, A DIVISION OF TANDY CORP.
Model : 43-689
EUT : 2 Line 900 MHz Analog 20Ch Cordless Phone
FCC ID : AAO4300689
Report No. : D0415699

Test by :

Training Research Co., Ltd.

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No. 5-3, Lane 21, Yen Chiu Yuan Rd., Sec. 4, Taipei, 11521 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. 5-3, Lane 21, Yen-Chiu-Yuan Rd., Sec. 4, Taipei, 11521 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 : RADIOSHACK, A DIVISION OF TANDY CORP.
Model : 43-689
EUT : 2 Line 900 MHz Analog 20Ch Cordless Phone
FCC ID : AAO4300689
Report No. : D0415699
Test Date : Aug. 07, 1998

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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 20Ch Cordless Phone
Model : 43-689
FCC ID : AAO4300689
Frequency Range : Base: 902.30 – 909.10 MHz
Handset: 923.90 – 927.70 MHz
Support Channel : 20 Channel
Power Type : Base Powered by 120 Vac 60 Hz / 12 Vdc 300 mA
Handset powered by 3.6 V / 600 mAh.
Power Cord : Nonshielded
Data Cable : RJ-11C x 2 => Nonshielded, 7' long, Plastic hoods, No bead
Headset & Mic. => Nonshielded, 217cm long, Plastic hoods,
No bead
Applicant : RADIOSHACK, A DIVISION OF TANDY CORP.
100 Throckmorton Street, Suite 1300, Fort Worth Texas,
76102, U.S.A.

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

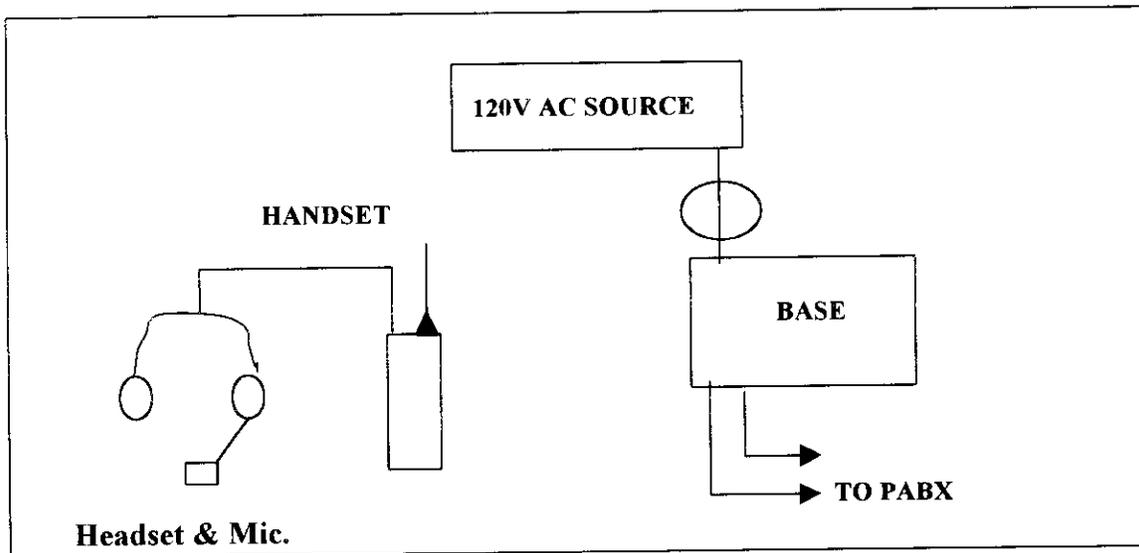


Fig. 1 Configuration of system under test

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. 1F, No. 569, Chung Hsiao E. Sec. 7, Taipei, 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 Ch00, Ch39 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

2.4 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. : 43-689
EUT : 2 Line 900MHz Analog 20Ch Cordless Phone

Table 1 Power Line Conducted Emissions (Charge Mode)

Power	Connected	Emissions	FCC	Class B
Conductor	Frequency (KHz)	Peak Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
Line 1	764.00	21.00	48.00	-27.00
	783.00	21.42	48.00	-26.58
	7990.00	24.32	48.00	-23.68
	14020.00	20.75	48.00	-27.25
	15930.00	23.84	48.00	-24.16
	24120.00	25.41	48.00	-22.59
	30000.00	21.39	48.00	-26.61

LINE 2	7990.00	22.30	48.00	-25.70
	12010.00	21.12	48.00	-26.88
	15930.00	21.20	48.00	-26.80
	24120.00	23.91	48.00	-24.09

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	Connected	Emissions	FCC	Class B
Conductor	Frequency (KHz)	Peak Amplitude (dBuV)	Limit (dBuV)	Margin (dB)
Line 1	764.00	22.07	48.00	-25.93
	7990.00	23.46	48.00	-24.54
	15930.00	21.67	48.00	-26.33
	24120.00	28.26	48.00	-19.74
	28160.00	20.59	48.00	-27.41

LINE 2	7990.00	23.25	48.00	-24.75
	15930.00	21.25	48.00	-26.75
	24120.00	24.98	48.00	-23.02
	25700.00	26.75	48.00	-21.25

NOTE.

- 3. Margin = Peak Amplitude - Limit
- 4. 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 (Channel 20)

Power Conductor	Connected Frequency (KHz)	Emissions Peak Amplitude (dBuV)	FCC Limit (dBuV)	Class B Margin (dB)
LINE1	764.00	21.66	48.00	-26.34
	783.00	21.14	48.00	-26.86
	7990.00	24.40	48.00	-23.60
	15930.00	20.78	48.00	-27.22
	22010.00	20.84	48.00	-27.16
	24120.00	27.22	48.00	-20.78
	28160.00	21.70	48.00	-26.30

LINE2	7990.00	23.25	48.00	-24.75
	15930.00	21.67	48.00	-26.33
	23940.00	23.82	48.00	-24.18
	25170.00	20.45	48.00	-27.55

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.

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 GMHz.

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 polarizations.

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

$F_{la} \text{ (dBuV/m)} = F_{lr} \text{ (dBuV)} + \text{Correction Factors}$

F_{la} : Actual Field Intensity

F_{lr} : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss

For frequency between 1 GHz to 18 GHz

$F_{la} \text{ (dBuV/m)} = F_{lr} \text{ (dBuV)} + \text{Correction Factor}$

F_{la} : Actual Field Intensity

F_{lr} : 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. : 43-689

EUT : 2 Line 900MHz Analog 20Ch Cordless Phone

Table4 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	902.30	H	100.00	25.00	82.75	94.00	-11.25
		V	100.00	325.00	90.37	94.00	-3.63
Base 20	906.10	H	100.00	120.00	80.88	94.00	-13.12
		V	100.00	165.00	92.21	94.00	-1.79
Handset 01	923.90	H	100.00	155.00	83.96	94.00	-10.04
		V	100.00	302.00	89.18	94.00	-4.82
Handset 20	927.70	H	100.00	118.00	81.77	94.00	-12.23
		V	100.00	207.00	92.74	94.00	-1.26

- 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 from the EUT at various antenna heights, antenna polarizations, EUT orientation, etc. are recorded on the following.

Model No. : 43-689

EUT : 2 Line 900MHz Analog 20Ch Cordless Phone

Table 5. Open Field Radiated Emissions For 30MHz -1 GHz [Channel 01, Base Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table ()			Limit (dBuV/m)	Margin (dB)
32.000	40.74	3.03	30	-16.31	24.43	40.00	-15.57
36.000	39.76	3.03	205	-18.28	21.48	40.00	-18.52
111.910	43.05	1.00	146	-12.88	30.17	43.50	-13.33
116.060	44.44	3.03	35	-20.95	23.49	43.50	-20.01
123.980	56.21	1.00	22	-23.80	32.41	43.50	-11.09
328.000	37.29	1.00	89	-14.46	22.83	46.00	-23.17
450.603	36.74	1.00	105	-10.15	26.59	46.00	-19.41
468.203	39.66	1.00	316	-10.87	28.79	46.00	-17.21
934.413	43.24	1.00	17	-15.02	28.22	46.00	-17.78

Note:

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

Table 6. Open Field Radiated Emissions For 1 GHz -18 GMHz [Channel 01, Base Horizontal]

Radiated Emission				Correction Factors (dB)	Distance (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table ()				Limit (dBuV/m)	Margin (dB)
1849.7	47.16	100.00	69	-8.67	-9.54	28.95	54	-25.05
2662.3	63.33	100.00	208	-6.84	-9.54	46.95	54	-7.05
3695.8	52.46	100.00	15	-5.64	-9.54	37.28	54	-16.72
4619.8	45.58	100.00	342	3.91	-9.54	39.95	54	-14.05

Note:

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

Table 7. Open Field Radiated Emissions For 30MHz -1 GMHz [Channel 01, Base Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table ()			Limit (dBuV/m)	Margin (dB)
32.000	46.40	1.00	296	-16.31	30.09	40.00	-9.91
36.000	43.79	1.00	58	-18.28	25.51	40.00	-14.49
111.910	47.84	1.00	67	-12.88	34.96	43.50	-8.54
116.060	50.59	3.03	249	-20.95	29.64	43.50	-13.86
123.980	49.76	1.00	286	-23.80	25.96	43.50	-17.54
328.000	43.88	3.02	90	-14.46	29.42	46.00	-16.58
450.603	43.34	3.03	322	-10.15	33.19	46.00	-12.81
468.203	43.66	1.00	12	-10.87	32.79	46.00	-13.21
934.413	43.08	1.00	273	-15.02	28.06	46.00	-17.94

Note:

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

Table 8. Open Field Radiated Emissions For 1 GHz -18 GMHz [Channel 01, Base Vertical]

Radiated Emission				Correction Factors (dB)	Distance (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)				Limit (dBuV/m)	Margin (dB)
1847.9	50.49	100.00	69	-8.67	-9.54	32.28	54	-21.72
2662.3	64.33	100.00	208	-6.84	-9.54	47.95	54	-6.05
3695.8	55.30	100.00	15	-5.64	-9.54	40.12	54	-13.88
4619.8	43.91	100.00	342	3.91	-9.54	38.28	54	-15.72

Note:

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

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

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table ()			Limit (dBuV/m)	Margin (dB)
36.000	35.70	3.03	105	-18.28	17.42	40.00	-22.58
44.000	39.61	3.02	68	-21.49	18.12	40.00	-21.88
88.000	35.15	3.03	214	-14.54	20.61	40.00	-19.39
108.900	35.12	3.02	83	-13.82	21.30	43.50	-22.20
112.500	46.20	3.03	0	-12.62	33.58	43.50	-9.92
116.000	38.77	3.02	180	-20.92	17.85	43.50	-25.65
328.000	37.08	1.00	280	-14.46	22.62	46.00	-23.38
450.600	37.66	1.00	170	-10.15	27.51	46.00	-18.49
938.400	52.86	1.00	231	-15.10	37.76	46.00	-8.24

Note :

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

Table 10. Open Field Radiated Emissions For 1 GHz -18 GMHz [Channel z0, Base Horizontal]

Radiated Emission				Correction Factors (dB)	Distance (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)				Limit (dBuV/m)	Margin (dB)
1849.3	47.16	100.00	125	-8.67	-9.54	28.95	54	-25.05
2662.8	62.16	100.00	16	-6.84	-9.54	45.78	54	-8.22
3551.0	51.80	100.00	138	-5.64	-9.54	36.62	54	-17.38
4639.0	40.91	100.00	302	3.91	-9.54	35.28	54	-18.72

Note :

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

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

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table ()			Limit (dBuV/m)	Margin (dB)
36.000	38.82	1.00	112	-18.28	20.54	40.00	-19.46
44.000	39.72	1.00	118	-21.49	18.23	40.00	-21.77
88.000	47.44	1.00	7	-14.54	32.90	40.00	-7.10
108.900	43.46	1.00	48	-13.82	29.64	43.50	-13.86
112.500	50.10	1.00	197	-12.62	37.48	43.50	-6.02
116.005	40.50	1.00	146	-20.92	19.58	43.50	-23.92
328.000	36.01	1.00	288	-14.46	21.55	46.00	-24.45
450.601	40.68	1.00	14	-10.15	30.53	46.00	-15.47
938.398	55.50	1.00	308	-15.10	40.40	46.00	-5.60

Note

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

Table 12. Open Field Radiated Emissions For 1 GHz -18 GMHz [Channel 20, Base Vertical]

Radiated Emission				Correction Factors (dB)	Distance (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table ()				Limit (dBuV/m)	Margin (dB)
1849.3	49.16	100.00	125	-8.67	-9.54	30.95	54	-23.05
2662.8	64.00	100.00	16	-6.84	-9.54	47.62	54	-6.38
3551.0	52.80	100.00	138	-5.64	-9.54	37.62	54	-16.38
4639.0	41.08	100.00	302	3.91	-9.54	35.45	54	-18.55

Note:

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

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

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table ()			Limit (dBuV/m)	Margin (dB)
83.250	36.33	3.02	143	-13.26	23.07	40.00	-16.93
99.480	45.14	1.00	167	-14.77	30.37	43.50	-13.13
124.110	36.02	1.00	173	-23.81	12.21	43.50	-31.29
186.140	57.97	3.02	286	-21.47	36.50	43.50	-7.00
198.460	53.68	3.02	291	-20.88	32.80	43.50	-10.70
214.770	43.28	3.02	12	-20.44	22.84	43.50	-20.66

Note

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

Table 14. Open Field Radiated Emissions For 1 GHz -18 GMHz [Channel 01, Handset Horizontal]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
1845	47.47	100.00	18	-8.67	-9.54	29.26	54	-24.74
2768	51.31	100.00	124	-6.84	-9.54	34.93	54	-19.07
3690	56.27	100.00	267	-5.64	-9.54	41.09	54	-12.91
4545	43.39	100.00	198	3.91	-9.54	37.76	54	-16.24

Note :

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

Table 15. Open Field Radiated Emissions for 30 MHz -1 GMHz [Channel 01, Handset Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitud ^e (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table (°)			Limit (dBuV/m)	Margin (dB)
84.050	44.69	3.02	197	-13.47	31.22	40.00	-8.78
99.520	53.59	3.02	179	-14.77	38.82	43.50	-4.68
124.340	43.54	1.00	320	-23.85	19.69	43.50	-23.81
186.180	49.88	3.02	245	-21.47	28.41	43.50	-15.09
198.460	53.00	3.02	340	-20.88	32.12	43.50	-11.38
214.770	43.32	1.03	87	-20.44	22.88	43.50	-20.62

Note.

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

Table16. Open Field Radiated Emissions for 1 GHz -18 GHz [Channel 01, Handset Vertical]

Radiated Emission				Correction Factors	Distance	Corrected Amplitude	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)
1845	47.97	100.00	18	-8.67	-9.54	29.76	54	-24.24
2768	52.64	100.00	124	-6.84	-9.54	36.26	54	-17.74
3690	59.27	100.00	267	-5.64	-9.54	44.09	54	-9.91
4545	41.89	100.00	198	3.91	-9.54	36.26	54	-17.74

Note:

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

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

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant.H. (cm)	Table ()			Limit (dBuV/m)	Margin (dB)
124.110	35.30	3.03	36	-23.81	11.49	43.50	-32.01
151.980	38.80	3.03	176	-23.36	15.44	43.50	-28.06
198.000	44.38	3.03	134	-20.90	23.48	43.50	-20.02
232.110	42.11	3.03	120	-19.56	22.55	46.00	-23.45
443.560	33.05	3.03	267	-8.39	24.66	46.00	-21.34
463.850	38.83	1.00	271	-10.78	28.05	46.00	-17.95

Note:

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

Table 18. Open Field Radiated Emissions For 1 GHz -18 GHz [Channel 20, Handset Horizontal]

Radiated Emission				Correction Factors (dB)	Distance (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table (°)				Limit (dBuV/m)	Margin (dB)
1808	47.80	100.00	58	-8.67	-9.54	29.59	54	-24.41
2663	62.81	100.00	129	-6.84	-9.54	46.43	54	-7.57
3555	52.94	100.00	17	-5.64	-9.54	37.76	54	-16.24
4635	50.22	100.00	273	3.91	-9.54	44.59	54	-9.41

Note:

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

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

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBuV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBuV/m)	Ant. H. (cm)	Table ()			Limit (dBuV/m)	Margin (dB)
124.110	35.20	1.00	86	-23.81	11.39	43.50	-32.11
151.980	43.08	1.00	228	-23.36	19.72	43.50	-23.78
198.000	37.00	3.02	36	-20.90	16.10	43.50	-27.40
232.110	45.97	3.02	83	-19.56	26.41	46.00	-19.59
443.560	32.96	3.02	54	-8.39	24.57	46.00	-21.43
463.850	37.34	1.00	119	-10.78	26.56	46.00	-19.44

Note:

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

Table 20. Open Field Radiated Emissions For 1 GHz -18 GMHz [Channel 20, 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)
1808	48.14	100.00	58	-8.67	-9.54	29.93	54	-24.07
2663	59.97	100.00	129	-6.84	-9.54	43.59	54	-10.41
3555	53.77	100.00	17	-5.64	-9.54	38.59	54	-15.41
4635	49.89	100.00	273	3.91	-9.54	44.26	54	-9.74

Note:

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

Appendix A

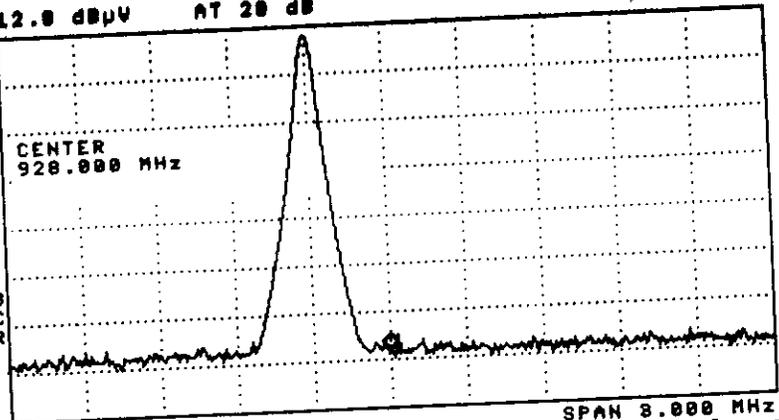
The antenna of the device is screwed inside the device, the user can not remove it freely without any tools from outside the device. This is comply with the FCC rules part 15.203

16:59:29 29 JUL 1998

MKR 928.000 MHz
44.18 dB μ V

REF 112.0 dB μ V AT 20 dB

PEAK
LOG
10
dB/



CENTER 928.000 MHz
#RES BW 30 kHz
VBW 30 kHz
SPAN 3.000 MHz
SWP 20.0 msec

CLEAR
WRITE A

MAX
HOLD A

VIEW A

BLANK A

Trace
A B C

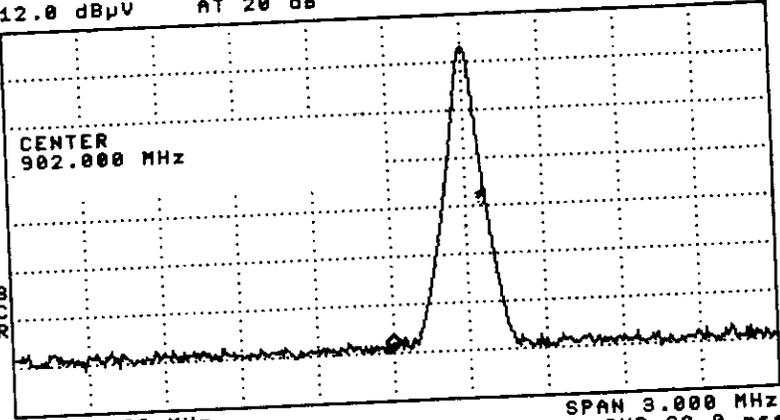
More
1 of 4

17:11:06 29 JUL 1998

MKR 902.000 MHz
42.42 dB μ V

REF 112.0 dB μ V AT 20 dB

PEAK
LOG
10
dB/



CENTER 902.000 MHz
#RES BW 30 kHz
VBW 30 kHz
SPAN 3.000 MHz
SWP 20.0 msec

CLEAR
WRITE A

MAX
HOLD A

VIEW A

BLANK A

Trace
A B C

More
1 of 4

Appendix A-1
Check Frequency on 902-928MHz