PCTEST Engineering Laboratory, Inc.
6660-B Dobbin Road • Columbia, MD 21045 • U.S.A.
TEL (410) 290-6652 • FAX (410) 290-6654
http://www.pctestlab.com

CERTIFICATE OF COMPLIANCE
FCC Part 15.249 Certification

E-RAE Electronics Industry Co., Ltd.
371-51, Kasan-Dong,
Kumchon-Ku, Seoul, KOREA
Attention: Kye-Hoon An

Dates of Tests: October 04-06, 1999
Test Report S/N: 15.990914579.OIO
Test Site: PCTEST Lab, Columbia, MD

FCC ID	**OIO901CP**
APPLICANT	**E-RAE ELECTRONICS INDUSTRY CO., LTD.**

FCC Rule Part(s):	**§15.249 Subpart C; ANSI C-63.4 (1992)**
FCC Classification:	**Cordless Telephone System (ETS)**
EUT Type:	**900MHz Analog Cordless Telephone System (Base/Handset)**
Frequency Range:	**902.80 – 904.75 MHz (Base)**
	925.30 – 927.25 MHz (Handset)
No. of Channels:	**40 (902.80 – 927.25 MHz)**

Trade Name	**Model**
E-RAE Elect. Ind. Co., Ltd.	***ECP-901SP***
Bell Equipment Sonecor	***BE-901SP***
TT Systems	***TT-901SP***
IBM	***IBM-900SP***

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C-63.4.
I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988 U.S.C. 853(a).

Randy Ortanez
President & Chief Engineer

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NVLAP LAB CODE 100431-0

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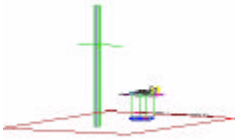
PRODUCT EVALUATION REPORT



Scope - Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations specified in RSS-210 Issue 2 of Industry Canada.

2.1033 General Information

Manufacturer:	**E-RAE ELECTRONICS INDUSTRY CO., LTD.**
Address:	**371-51, Kasan-Dong,**
	Kumchon-Ku, Seoul, KOREA
Attention:	**Kye-Hoon An – Manager, QA Dept.**

Trade Name	**Model**
E-RAE Elect. Ind. Co., Ltd.	***ECP-901SP***
Bell Equipment Sonecor	***BE-901SP***
TT Systems	***TT-901SP***
IBM	***IBM-900SP***

- Equipment Type: 900MHz Analog Cordless Telephone System
- FCC Classification: Cordless Telephone System (ETS)
- FCC Rule Part(s): §15.249 Subpart C; ANSI C-63.4 (1992)
- Frequency Range(s): 902.80 – 904.75 MHz (Base)
  925.30 – 927.25 MHz (Handset)
- Channels: 40 (902.80 – 927.25 MHz)
- Power Supply: 9VDC 300mA DC Adapter Model: DR-09300U
- Dates of Tests: October 04-06, 1999
- Place of Tests: PCTEST Lab, Columbia, MD U.S.A.
- Test Report S/N: 15.990914579.OIO

NVLAP Lab Code 100431-0

INTRODUCTION

The measurement procedures described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-1992), FCC Public Notice dated July 12, 1995 entitled "Guidance on Measurement for Direct Sequence Spread Spectrum Systems", and RSS-210 of Industry Canada were used in the measurement of **E-RAE Electronics Industry Co., Ltd. 900MHz Analog Cordless Telephone System FCC ID: OIO901CP.**

These measurement tests were conducted at ***PCTEST Engineering Laboratory, Inc.*** facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4 on October 19, 1992.

PCTEST Location

The map at right shows the location of the PCTEST Lab, its proximity to the FCC Lab, the Columbia vicinity area, the Baltimore-Washington International (BWI) airport, and the city of Baltimore, and the Washington, D.C. area. (see Figure1).

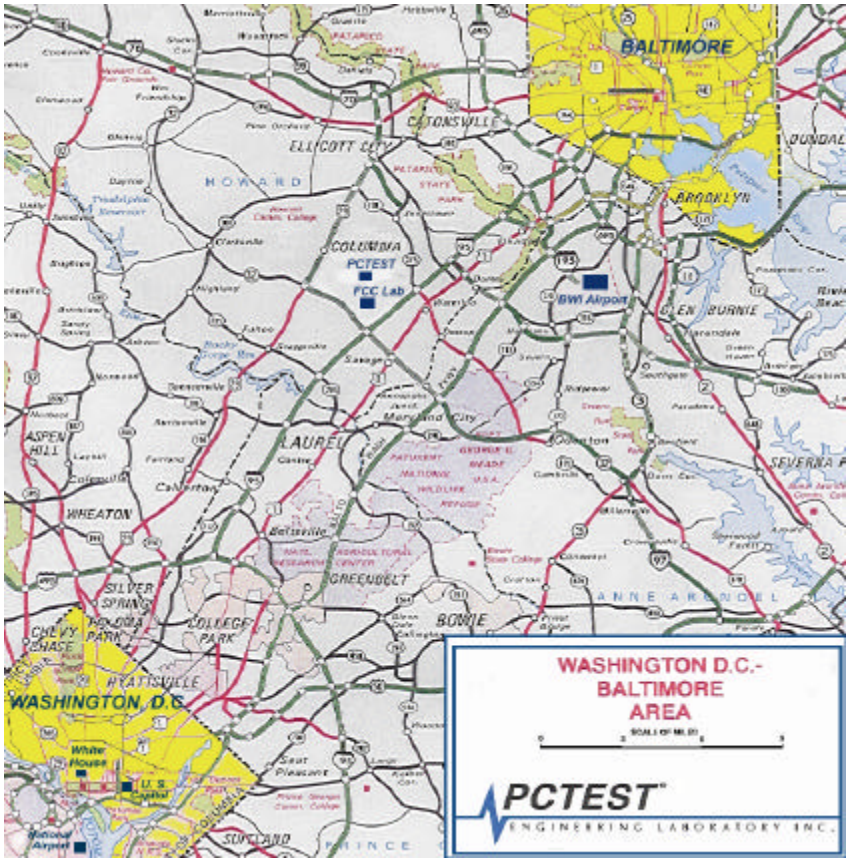


Figure 1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area.

PRODUCT INFORMATION

Equipment Description:

The Equipment under test (EUT) is **the E-RAE Electronics Industry Co., Ltd. 40-Channel 900MHz Analog Cordless Telephone System FCC ID: OIO901CP.**

Frequency Range:	902.80 – 904.75 MHz (Base) 925.30 – 927.25 MHz (Handset)
Channels:	40 (902.80 – 927.25 MHz)
Digital Security Codes:	1024 discrete combinations
Modulation:	FM
Port(s)/Connector(s):	(2) RJ-11C (Line/Phone), (1) DC power connector (Base Unit)
Cable(s):	Unshielded Telco
Power Supply:	9VDC 300mA DC Adapter Model: DR-09300U
Power Cord(s):	Unshielded
Handset Battery Pack:	Ni-MH 3.6V 550mA

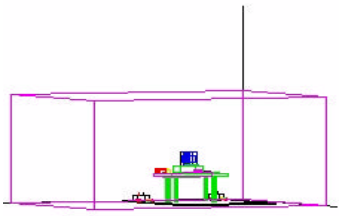


Figure 4. Shielded Enclosure Line-Conducted Test Facility

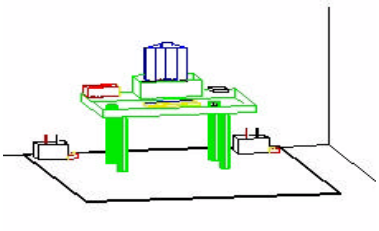


Figure 2. Line Conducted Emission Test Set-Up

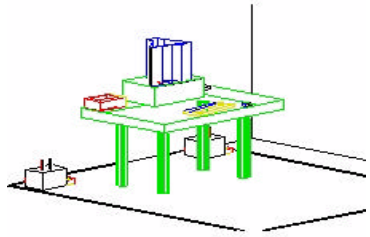


Figure 3. Wooden Table & Bonded LISNs

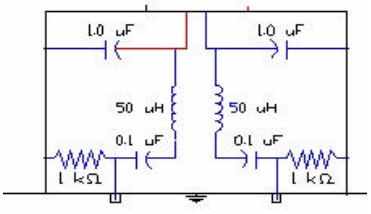


Figure 5. LISN Schematic Diagram

DESCRIPTION OF TESTS

Conducted Emissions (Base Unit)

Preliminary and final AC powerline conducted tests were performed inside a shielded enclosure (Fig. 2). The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition before tests are conducted. A 1m.x1.5m. wooden table 80cm. high is placed 40cm. away from the vertical wall and 1.5m away from the side wall of the shielded room (Figure 3). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50µH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (Figure 4). The EUT is powered from the Solar LISN and the support equipment is powered from the EMCO LISN. Power to the LISNs are filtered by a high-current high-insertion loss Ray Proof power line filters (100dB 14kHz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2".

If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the Solar LISN. LISN schematic diagram is shown in Figure 5. All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT. The spectrum was scanned from 450kHz to 30MHz with 20 msec sweep time. The frequency producing the maximum level was reexamined using EMI/ Field Intensity Meter and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode. The bandwidth of the receiver was set to 10 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching channels and power lines; applying modulation signal, varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Exhibit I. Each EME reported was calibrated using the HP8640B signal generator.

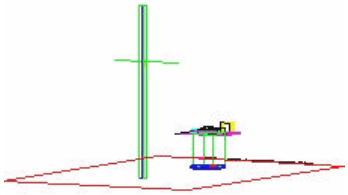


Figure 6. 3-Meter Test Site

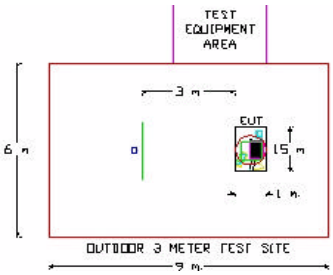


Figure 7. Dimensions of Outdoor Test Site

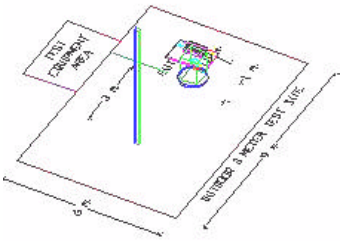


Figure 8. Turntable and System Setup

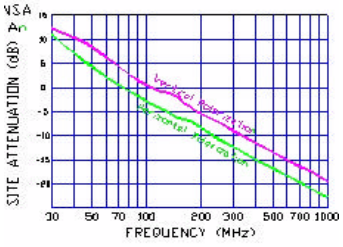


Figure 9. Normalized Site Attenuation Curves (H&V)

DESCRIPTION OF TESTS (CONTINUED)

Radiated Emissions (Base & Handset)

Preliminary measurements were made indoors at 1 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The spectrum was scanned from 30 to 200 MHz using biconical antenna and from 200 to 1000 MHz using log-spiral antenna. Above 1 - 40 GHz, using double-ridge horn antennas.

Final measurements were made outdoors at 3-meter test range using Roberts™ Dipole antennas or horn antenna (see Figure 6). The test equipment was placed on a wooden and plastic bench situated on a 1.5 x 2 meter area adjacent to the measurement area (see Figure 7). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter with Average Reading and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode or average with the resolution bandwidth of the receiver was set to 100kHz or 1 MHz depending on the frequency or type of signal.

The half-wave dipole or horn antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table (see Figure 8). The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: switching channels and power lines; applying modulation signal, varying the mode of operation, clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Exhibit I. Each EME reported was calibrated using the HP8640B signal generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 9 according to ANSI C63.4.

Antenna Requirement

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the applicant can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with this requirement.

Base Unit

The **E-RAE** base unit complies with the antenna requirements of §15.203. The antenna is a **permanently attached Telescopic Antenna**.

Handset Unit

The **E-RAE** handset unit complies with the requirements of §15.203. The antenna is a **permanently secured Rubber Antenna**.

CONCLUSION

There are no provisions for connection to an external antenna. Both Units meet the Antenna Requirements of §15.203.

RADIATED MEASUREMENTS (FUNDAMENTAL & HARMONICS)

A. Transmitter Portion (Base)

Operating Frequency: 902.80 MHz

Distance of Measurements: 3 meters

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	Margin*** (dB)
902.8	- 49.0	32.6	V	Peak	33884.4	- 3.4
1805.6	- 91.0	34.8	V	Peak	346.7	- 3.2
2708.4	- 112.2	39.7	V	Peak	53.1	- 19.5
3611.2	- 117.0	44.2	V	Peak	51.3	- 19.8
4514.0	- 121.0	46.2	V	Peak	40.7	- 21.8
5416.8	- 130.0	49.1	V	Peak	20.2	- 27.9
6319.6	- 128.0	51.0	V	Peak	31.6	- 24.0
7222.4	- 130.0	53.0	V	Peak	31.6	- 24.0

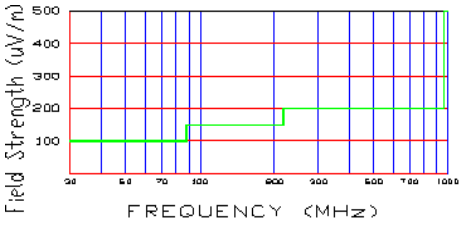


Figure 10. Harmonic Limits at 3 meters

NOTES:

1. The limit at fundamental freq. is 50,000 μV/m @ 3m. using average detector (RBW = 1 MHz VBW = 3Hz).

2. All emissions exceeding 20μV/m @3m. are reported.

3. All spurious emissions in the restricted bands specified in §15.205 are below the limit shown in Fig. 10.

4. Measurements are made at 20° or between +15° C to +25° C.

5. The antenna is manipulated through typical positions and length during the tests.

6. The emissions are maximized by changing polarity of the antenna.

7. The EUT is supplied with the nominal AC voltage and/or a new/fully recharge battery.

8. All channels were investigated and the worst-case are reported.

RADIATED MEASUREMENTS (FUNDAMENTAL & HARMONICS)

B. Transmitter Portion (Base)

Operating Frequency: 904.55 MHz

Distance of Measurements: 3 meters

Channel: 40

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	Margin*** (dB)
904.55	- 48.5	32.7	V	Peak	36307.80	- 2.8
1809.1	- 91.0	34.9	V	Peak	350.75	- 3.1
2713.65	- 112.2	39.9	V	Peak	54.33	- 19.3
3618.2	- 116.0	44.3	V	Peak	58.21	- 18.7
4522.75	- 121.0	46.4	V	Peak	41.69	- 21.6
5427.30	- 126.0	49.2	V	Peak	32.36	- 23.8
6331.85	- 128.0	51.2	V	Peak	32.36	- 23.8
7236.40	- 130.0	53.0	V	Peak	31.62	- 24.0

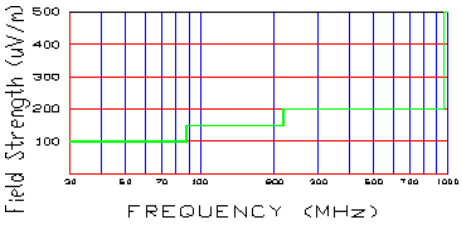


Figure 11. Harmonic Limits at 3 meters

NOTES:

1. The limit at fundamental freq. Is 50,000 μV/m @ 3m. using average detector (RBW = 1 MHz VBW = 3Hz).

2. All emissions exceeding 20μV/m @3m. are reported.

3. All spurious emissions in the restricted bands specified in §15.205 are below the limit shown in Fig. 11.

4. Measurements are made at 20° or between +15° C to +25° C.

5. The antenna is manipulated through typical positions and length during the tests.

6. The emissions are maximized by changing polarity of the antenna.

7. The EUT is supplied with the nominal AC voltage and/or a new/fully recharge battery.

8. All channels were investigated and the worst-case are reported

RADIATED MEASUREMENTS (FUNDAMENTAL & HARMONICS)

C. Transmitter Portion (Handset)

Operating Frequency: 925.30 MHz

Distance of Measurements: 3 meters

Channel: 1

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	Margin*** (dB)
925.3	- 49.5	32.9	V	Peak	33113.10	- 3.6
1850.6	- 94.8	35.4	V	Peak	239.88	- 6.4
2775.9	- 117.0	39.7	V	Peak	30.55	- 24.3
3701.2	- 121.0	44.4	V	Peak	33.11	- 23.6
4626.5	- 125.8	47.0	V	Peak	25.70	- 25.8
5551.8	- 128.0	51.3	V	Peak	32.73	- 23.7
6477.1	- 130.0	53.2	V	Peak	32.36	- 23.8
7402.4	- 130.0	54.9	V	Peak	39.36	- 22.1

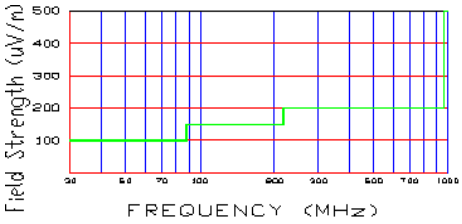


Figure 12. Harmonic Limits at 3 meters

NOTES:

1. The limit at fundamental freq. Is 50,000 μV/m @ 3m. using average detector (RBW = 1 MHz VBW = 3Hz).

2. All emissions exceeding 20μV/m @3m. are reported.

3. All spurious emissions in the restricted bands specified in §15.205 are below the limit shown in Fig. 12.

4. Measurements are made at 20° or between +15° C to +25° C.

5. The antenna is manipulated through typical positions and length during the tests.

6. The emissions are maximized by changing polarity of the antenna.

7. The EUT is supplied with the nominal AC voltage and/or a new/fully recharge battery.

RADIATED MEASUREMENTS (FUNDAMENTAL & HARMONICS)

D. Transmitter Portion (Handset)

Operating Frequency: 927.25 MHz

Distance of Measurements: 3 meters

Channel: 40

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	DET QP/AVG	F/S (μV/m)	Margin*** (dB)
927.250	- 49.2	33.0	V	Peak	34673.70	- 3.2
1854.50	- 95.0	35.5	V	Peak	237.14	- 6.5
2781.75	- 116.0	39.8	V	Peak	34.67	- 23.2
3709.00	- 120.0	44.5	V	Peak	37.58	- 22.5
4636.25	- 126.0	47.2	V	Peak	25.70	- 25.8
5563.50	- 129.0	51.3	V	Peak	29.17	- 24.7
6490.75	- 130.0	53.2	V	Peak	32.36	- 23.8
7418.00	- 130.0	55.0	V	Peak	39.81	- 22.0

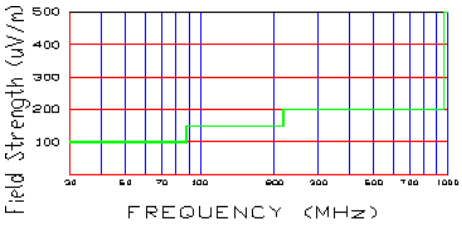


Figure 13. Harmonic Limits at 3 meters

NOTES:

1. The limit at fundamental freq. Is 50,000 μV/m @ 3m. using average detector (RBW = 1 MHz VBW = 3Hz).

2. All emissions exceeding 20μV/m @3m. are reported.

3. All spurious emissions in the restricted bands specified in §15.205 are below the limit shown in Fig. 13.

4. Measurements are made at 20° or between +15° C to +25° C.

5. The antenna is manipulated through typical positions and length during the tests.

6. The emissions are maximized by changing polarity of the antenna.

7. The EUT is supplied with the nominal AC voltage and/or a new/fully recharge battery.

8. All channels were investigated and the worst-case are reported

RADIATED MEASUREMENTS (SPURIOUS)

E. Receiver Portion (Base & Handset)

FREQ. (MHz)	Level* (dBm)	AFCL** (dB)	POL (H/V)	Height (m)	Angle (°)	F/S (µV/m)	Margin*** (dB)
35.8	- 74.39	0.19	H	3.3	10	43.65	- 7.2
196.3	- 88.32	16.32	V	1.6	80	56.23	- 8.5
306.8	- 88.63	20.83	V	1.5	210	91.20	- 6.8
475.8	- 93.52	25.52	V	1.3	180	89.13	- 7.0
543.3	- 96.99	26.99	V	1.2	30	70.79	- 9.0
940.9	- 100.17	33.17	H	1.1	210	100.0	- 6.0

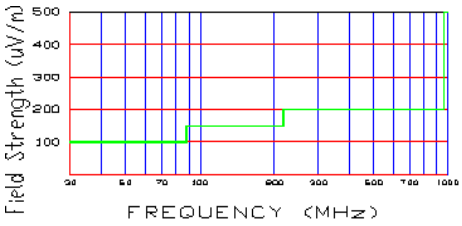


Figure 14. Spurious Limits at 3 meters

NOTES:

1. All channels were investigated and the worst-case emissions are reported.
2. The radiated spurious limits are shown in Fig. 14.
3. All spurious emissions in the restricted bands specified in §15.205 are below the limit.
4. The antenna is fully extended during the tests, and the emissions are maximized by changing polarity of the antenna.
5. For handheld devices, the EUT is rotated through three orthogonal axis to determine which configuration produces the maximum emissions.
6. The EUT is supplied with the nominal AC voltage or/and a new/fully charged battery.

TEST PLOTS

(See Exhibit D)

1. **Line-Conducted**
2. **Base Unit Channel 1**
3. **Handset Unit Channel 40**

Sample Calculations

dBμV = 20 log $_{10}$ (μV/m)
dBμV = dBm + 107

Example 1:

@ 20.3 MHz

Class B limit	= 250 μV = 47.96 dBμV
Reading	= - 67.8 dBm (calibrated level)
Convert to dbμV	= - 67.8 + 107 = 39.2 dBμV
$10^{(39.2/20)}$	= 91.2 μV
Margin	= 39.2 - 47.96 = - 8.76
	= **8.8 dB below limit**

Example 2:

@ 66.7 MHz

Class B limit	= 100 μV/m = 47.96 dBμV/m
Reading	= - 76.0 dBm (calibrated level)
Convert to dbμV/m	= - 76.0 + 107 = 31.0 dBμV/m
Antenna Factor + Cable Loss	= 5.8 dB
Total	= 36.8 dBμV/m
Margin	= 36.8 - 40.0 = - 3.2
	= **3.2 dB below limit**

Accuracy of Measurement

Measurement Uncertainty Calculations:

The measurement uncertainties stated were calculated in accordance with the requirements of NIST Technical Note 1297 and NIS 81 (1994).

Contribution (Line Conducted)	Probability Distribution	Uncertainty (± dB) 9kHz-150MHz	Uncertainty (± dB) 150-30MHz
Receiver specification	Rectangular	1.5	1.5
LISN coupling specification	Rectangular	1.5	1.5
Cable and input attenuator calibration	Normal (k=2)	0.3	0.5
Mismatch: Receiver VRC Γ_1 = 0.03 LISN VRC Γ_R = 0.8 (9kHz) 0.2 (30MHz) Uncertainty limits 20Log(1 ± Γ_1 Γ_R)	U-Shaped	0.2	0.35
System repeatability	Std. deviation	0.2	0.05
Repeatability of EUT		-	-
Combined standard uncertainty	Normal	1.26	1.30
Expanded uncertainty	Normal (k=2)	2.5	2.6

Calculations for 150kHz to 30MHz:

$$u_c(y) = \sqrt{\sum_{i=1}^{m} u_i^2(y)} = \pm\sqrt{\frac{1.5^2 + 1.5^2}{3} + (\frac{0.5}{2})^2 + 0.35} = \pm 1.298\text{dB}$$

$U = 2U_c(y) = \pm 2.6\text{dB}$

Contribution (Radiated Emissions)	Probability Distribution	Uncertainties (± dB) 3 m	Uncertainties (± dB) 10 m
Ambient Signals		-	-
Antenna factor calibration	Normal (k=2)	± 1.0	± 1.0
Cable loss calibration	Normal (k=2)	± 0.5	± 0.5
Receiver specification	Rectangular	± 1.5	±1.5
Antenna directivity	Rectangular	+ 0.5 / - 0	+ 0.5
Antenna factor variation with height	Rectangular	± 2.0	± 0.5
Antenna phase centre variation	Rectangular	0.0	± 0.2
Antenna factor frequency interpolation	Rectangular	±. 0.25	± 0.25
Measurement distance variation	Rectangular	± 0.6	± 0.4
Site imperfections	Rectangular	± 2.0	± 2.0
Mismatch: Receiver VRC Γ_1 = 0.2 Antenna VRC Γ_R = 0.67 (Bi) 0.3 (Lp) Uncertainty limits 20Log(1 ± Γ_1 Γ_R)	U-Shaped	+ 1.1 - 1.25	± 0.5
System repeatability	Std. Deviation	± 0.5	± 0.5
Repeatability of EUT		-	-
Combined standard uncertainty	Normal	+ 2.19 / - 2.21	+ 1.74 / - 1.72
Expanded uncertainty U	Normal (k=2)	+ 4.38 / - 4.42	+ 3.48 / - 3.44

Calculations for 3m biconical antenna. Coverage factor of k=2 will ensure that the level of confidence will be approximately 95%, therefore:

$U = 2u_c(y) = 2 \times \pm 2.19 = \pm 4.38\text{dB}$

TEST EQUIPMENT

Type	Model	Cal. Due Date	S/N
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	08/15/00	3638A08713
Microwave Spectrum Analyzer	HP 8566B (100Hz-22GHz)	04/17/00	2542A11898
Spectrum Analyzer/Tracking Gen.	HP 8591A (100Hz-1.8GHz)	08/10/00	3144A02458
Signal Generator*	HP 8640B (500Hz-1GHz)	06/03/00	2232A19558
Signal Generator*	HP 8640B (500Hz-1GHz)	06/03/00	1851A09816
Signal Generator*	Rohde & Schwarz (0.1-1000MHz)	09/11/00	894215/012
Ailtech/Eaton Receiver	NM 37/57A-SL (30-1000MHz)	04/12/00	0792-03271
Ailtech/Eaton Receiver	NM 37/57A (30-1000MHz)	03/11/00	0805-03334
Ailtech/Eaton Receiver	NM 17/27A (0.1-32MHz)	09/17/00	0608-03241
Quasi-Peak Adapter	HP 85650A	08/15/00	2043A00301
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI QP Adapter	03/11/00	0194-04082
RG58 Coax Test Cable	No. 167		n/a
Harmonic/Flicker Test System	HP 6841A (IEC 555-2/3)		3531A00115
Broadband Amplifier (2)	HP 8447D		1145A00470, 1937A03348
Broadband Amplifier	HP 8447F		2443A03784
Transient Limiter	HP 11947A (9kHz-200MHz)		2820A00300
Horn Antenna	EMCO Model 3115 (1-18GHz)		9704-5182
Horn Antenna	EMCO Model 3115 (1-18GHz)		9205-3874
Horn Antenna	EMCO Model 3116 (18-40GHz)		9203-2178
Biconical Antenna (4)	Eaton 94455/Eaton 94455-1/Singer 94455-1/Compliance Design 1295, 1332, 0355		
Log-Spiral Antenna (3)	Ailtech/Eaton 93490-1		0608, 1103, 1104
Roberts Dipoles	Compliance Design (1 set)		
Ailtech Dipoles	DM-105A (1 set)		33448-111
EMCO LISN	3816/2		1079
EMCO LISN	3816/2		1077
EMCO LISN	3725/2		2009
Microwave Preamplifier 40dB Gain	HP 83017A (0.5-26.5GHz)		3123A00181
Microwave Cables	MicroCoax (1.0-26.5GHz)		
Ailtech/Eaton Receiver	NM37/57A-SL		0792-03271
Spectrum Analyzer	HP 8594A		3051A00187
Spectrum Analyzer (2)	HP 8591A		3034A01395, 3108A02053
Modulation Analyzer	HP 8901A		2432A03467
NTSC Pattern Generator	Leader 408		0377433
Noise Figure Meter	HP 8970B		3106A02189
Noise Figure Meter	Ailtech 7510		TE31700
Noise Generator	Ailtech 7010		1473
Microwave Survey Meter	Holaday Model 1501 (2.450GHz)		80931
Digital Thermometer	Extech Instruments 421305		426966
Attenuator	HP 8495A (0-70dB) DC-4GHz		
Bi-Directional Coax Coupler	Narda 3020A (50-1000MHz)		
Shielded Screen Room	RF Lindgren Model 26-2/2-0		6710 (PCT270)
Shielded Semi-Anechoic Chamber	Ray Proof Model S81		R2437 (PCT278)
Enviromental Chamber	Associated Systems Model 1025 (Temperature/Humidity)		PCT285

* Calibration traceable to the National Institute of Standards and Technology (NIST).

RECOMMENDATION / CONCLUSION

The data collected shows that the **E-RAE Electronics Industry Co., Ltd. 900MHz Analog Cordless Telephone System FCC ID: OIO901CP** complies with Part 15C of the FCC rules.