

**KTL Test Report:** 8R00987.1

**Applicant:** VTECH Engineering Canada Ltd.  
200-7671 Alderbridge Way  
Richmond, B.C.  
V6X 1Z9

**Equipment Under Test:  
(E.U.T.)** Sony SPP-900  
Analog 900 MHz Cordless Telephone

**In Accordance With:** **FCC Part 15, Subpart C, 15.249**  
For 900 MHz Cordless Telephones

**Tested By:** KTL Ottawa Inc.  
3325 River Road, R.R. 5  
Ottawa, Ontario K1V 1H2

**Authorized By:** \_\_\_\_\_  
W. Waterhouse, RF Engineering Lab Manager

**Date:** \_\_\_\_\_

**Total Number of Pages:** 27

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*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

**Section 1. Summary Of Test Results**

Manufacturer: VTECH Engineering Canada Ltd.

Model No.: Sony SPP-900, MK2A and MK2B

Serial No.: None

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15.249. All tests were conducted using measurement procedure ANSI C63.4-1992. Radiated Emissions were made on an open area test site.

<input checked="" type="checkbox"/>	New Submission	<input checked="" type="checkbox"/>	Production Unit
<input type="checkbox"/>	Class II Permissive Change	<input type="checkbox"/>	Pre-Production Unit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Equipment Code

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See " Summary of Test Data".

It is recommended that the margin of compliance be improved to allow for manufacturing tolerances.



**NVLAP LAB CODE: 100351-0**

TESTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
Kevin Carr, Technologist

TECHNICAL REVIEW: \_\_\_\_\_ DATE: \_\_\_\_\_  
Tom Tidwell, Wireless Group Manager

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*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

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**Summary Of Test Data**

**Base:**

NAME OF TEST	PARA. NO.	RESULT
Conducted Emissions	15.207	Complies
Radiated Emissions	15.249	Complies

**Handset:**

NAME OF TEST	PARA. NO.	RESULT
Radiated Emissions	15.249	Complies

**Footnotes For N/A's:**

**Test Conditions:**            Temperature: 21 °C  
   Humidity: 29 %

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

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**Section 2A. General Equipment Specification**

**Base:**

**Equipment:** Analog Cordless Telephone  
**Model Number:** Sony SPP-900  
**Serial Number:** None  
**Frequency Range:** 902.3 – 906.65 MHz  
**Operating Frequency(ies) of Sample:** 902.3 MHz, 906.65 MHz  
**Tunable Bands:** 1  
**Number of Channels:** 30  
**Channel Spacing:** 150 kHz  
**Emission Designator:** 165KF1D  
**Crystal Frequencies:** Not Applicable  
**User Frequency Adjustment:** Software Controlled Channel Selector Button

**Integral Antenna**

**Yes**



**No**



*Note: If antenna is not integral to transmitter explain method of attachment and type of unique connector:*

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

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**Section 2B. General Equipment Specification**

**Handset**

**Equipment:** Analog Cordless Telephone

**Model Number:** Sony SPP-900

**Serial Number:** None

**Frequency Range:** 923.10 – 927.75 MHz

**Operating Frequency(ies) of Sample:** 923.1 MHz, 927.75 MHz

**Tunable Bands:** 1

**Number of Channels:** 30

**Channel Spacing:** 150 kHz

**Emission Designator:** 165KF1D

**Crystal Frequencies:** Not Applicable

**User Frequency Adjustment:** Software Controlled Channel Selector Button

**Integral Antenna** **Yes** **No**

*Note: If antenna is not integral to transmitter explain method of attachment and type of unique connector:*

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

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**Description of Modification for Class II Permissive Change**

**NOT APPLICABLE**

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

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**Modifications Made During Testing**

**NOT APPLICABLE**

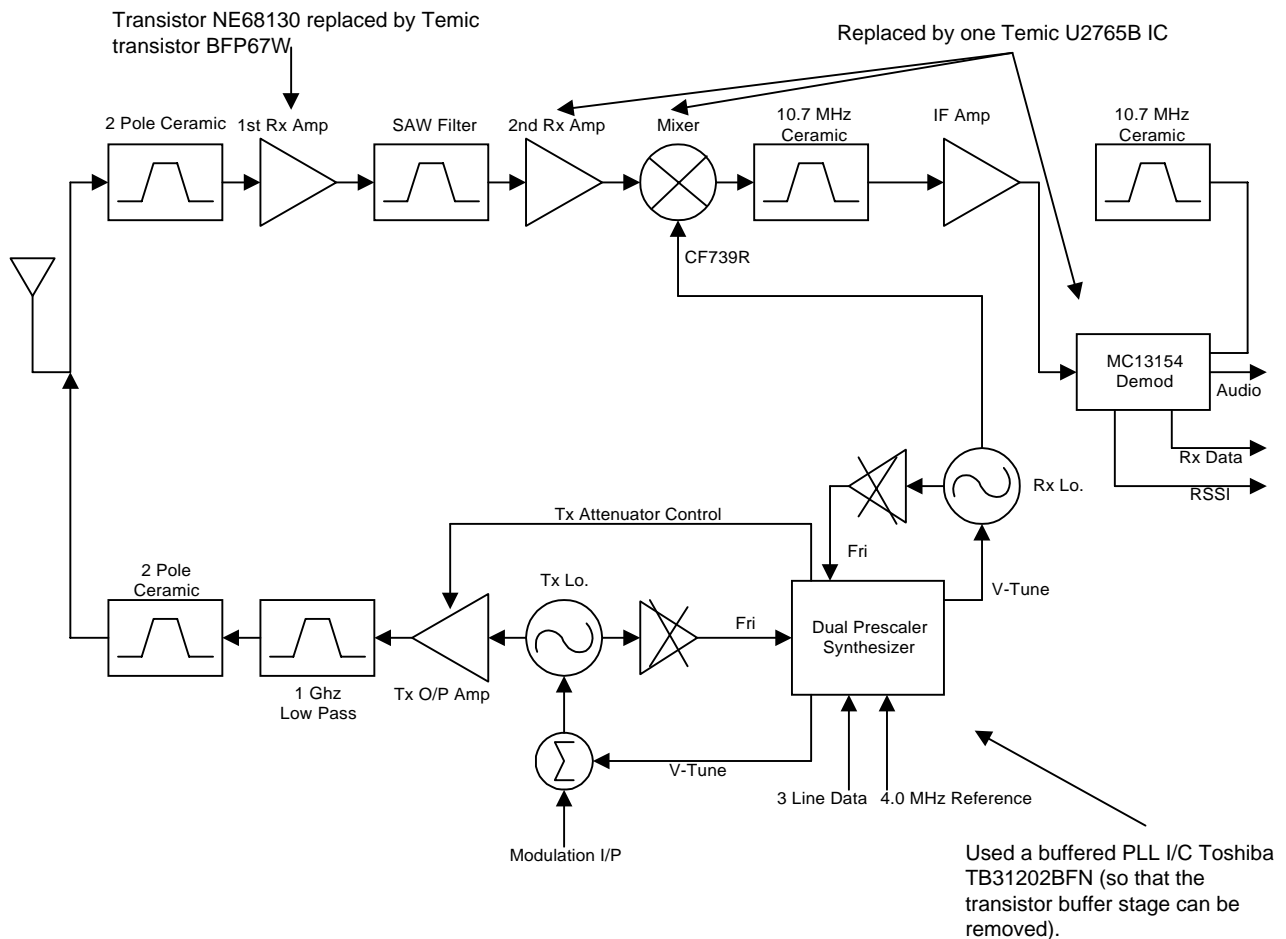
EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone

**Theory of Operation**

The Sony SPP-900 is a basic analog cordless telephone. It has 30-channel operation which is operator controllable. It is intended to be compatible with most types of central office equipment in Canada, the United States and South America.

**System Diagram**

BLOCK DIAGRAM SHOWING CHANGES FROM ADLMK2A TO ADLMK2B  
 (MODEL: VT9111)



ADLMK2A RF MODULE BLOCK DIAGRAM

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

**Section 3. Powerline Conducted Emissions**

NAME OF TEST: Powerline Conducted Emissions	PARA. NO.: 15.207
TESTED BY: Kevin Carr	DATE: November 16, 1998

**Note:** **Worst Case Emissions of MK2A and MK2B Systems**

**Test Conditions:** Standard Temperature and Humidity  
 Standard Test Voltage

**Minimum Standard:**

Frequency (MHz)	Maximum Powerline Conducted RF Voltage	
	( $\mu$ V)	(dB $\mu$ V)
0.45 - 30.0	250	48

**Test Results:** Complies. See attached graph(s).

**Measurement Data:** See attached graph(s).

**Method of Measurement:** (Procedure ANSI C63.4-1992)

Measurements were made using a spectrum analyzer with 10 kHz RBW, Peak Detector. Any emissions that are close to the limit are measured using a test receiver with 10 kHz bandwidth, CISPR Quasi-Peak Detector.

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*INSERT CONDUCTED EMISSIONS GRAPH(S)*

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*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

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**Conducted Photographs (Worst Case Configuration)**

SIDE VIEW

FRONT VIEW

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

**Section 4A. Radiated Emissions (Base)**

NAME OF TEST: Radiated Emissions (Base)	PARA. NO.: 15.249
TESTED BY: Kevin Carr	DATE: November 23, 1998

**Test Conditions:** Outdoor Range  
 Standard Test Voltage

**Minimum Standard:** Para no. 15.249

(a) The field strengths shall not exceed the following:

Fundamental (MHz)	Field Strength (mV/m)	Field Strength (dBµV)	Harmonic (mV/m)	Harmonic (dBµV)
902-928	50	94	0.5	54

- (b) Field strength limits are specified at a distance of 3 metres.
- (c) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated limits of 15.209 whichever is the less attenuation.
- (d) The emission limits shown above are based on measurement instrumentation employing a CISPR quasi-peak detector below 1000 MHz and an averaging detector above 1000 MHz. However, the peak field strength of any emission shall not exceed the average limit by more than 20 dB.

**Test Results:** Complies. The worst-case emission level is 53.5 dBµV/m @ 3m at 9066.5 MHz. This is 0.5 dB below the specification limit.

**Measurement Data:** See attached table.

**Maximizing Emission Levels:**

For hand held equipment or equipment that may be mounted in a variety of positions, the E.U.T. was tested on three orthogonal axis to determine orientation of worst-case emission levels.

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

**Test Data - Radiated Emissions (Base)**

**Worst Case Emissions of MK2A and MK2B Systems**

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP HP8566B		RBW(kHz): 1 MHz		Detector: Peak			
Freq. (MHz)	Ant. *	Pol. (V/H)	Ant. HGT. (m)	Table (deg.)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
<b>Channel: 01</b>											
902.3	R/D4	V			53.8	34.4			88.2	94.0	5.8
902.3	R/D4	H			51.2	34.4			85.6	94.0	8.4
1804.6	Hrn2	V			56.8	30.1	-43.8		43.1	54.0	10.9
1804.6	Hrn2	H			58.1	30.1	-43.8		44.4	54.0	9.6
2706.9	Hrn2	V			59.6	31.9	-45.2		46.3	54.0	7.7
2706.9	Hrn2	H			62.3	31.9	-45.2		49.0	54.0	5.0
3609.2	Hrn2	V			52.1	35.4	-42.3		45.2	54.0	8.8
3609.2	Hrn2	H			54.2	35.4	-42.3		47.3	54.0	6.7
4511.5	Hrn2	V			50.2	37.4	-43.4		44.2	54.0	9.8
4511.5	Hrn2	H			50.6	37.4	-43.4		44.6	54.0	9.4
5413.8	Hrn2	V			49.3	39.9	-43.8		45.4	54.0	8.6
5413.8	Hrn2	H			47.9	39.9	-43.8		44.0	54.0	10.0
6316.1	Hrn2	V			48.6	42.7	-40.8		50.5	54.0	3.5
6316.1	Hrn2	H			47.5	42.7	-40.8		49.4	54.0	4.6
7218.4	Hrn2	V			47.0	44.4	-42.3		49.1	54.0	4.9
7218.4	Hrn2	H			46.7	44.4	-42.3		48.8	54.0	5.2
8120.7	Hrn2	V			46.2	46.8	-43.6		49.4	54.0	4.6
8120.7	Hrn2	H			46.4	46.8	-43.6		49.6	54.0	4.4
9023.0	Hrn2	V			45.2	50.5	-43.4		52.3	54.0	1.7
9023.0	Hrn2	H			46.0	50.5	-43.4		53.1	54.0	0.9

Notes:  
 B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole  
 \* Re-measured using dipole antenna.  
 \*\* Includes cable loss when amplifier is not used.  
 \*\*\* Includes cable loss.  
 ( ) Denotes failing emission level.

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

**Test Data - Radiated Emissions (Base)**

**Worst Case Emissions of MK2A and MK2B Systems**

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP HP8566B		RBW(kHz): 1 MHz		Detector: Peak			
Freq. (MHz)	Ant. *	Pol. (V/H)	Ant. HGT. (m)	Table (deg.)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
<b>Channel: 25</b>											
906.65	R/D4	V			54.6	34.4			89.0	94.0	5.4
906.65	R/D4	H			50.6	34.4			85.0	94.0	9.0
1813.3	Hrn2	V			58.6	30.1	-44.0		44.7	54.0	9.3
1813.3	Hrn2	H			56.2	30.1	-44.0		42.3	54.0	11.7
2719.95	Hrn2	V			59.8	31.9	-45.2		46.5	54.0	7.5
2719.95	Hrn2	H			63.8	31.9	-45.2		50.5	54.0	3.5
3626.6	Hrn2	V			51.8	35.5	-42.3		45.0	54.0	9.0
3626.6	Hrn2	H			55.2	35.5	-42.3		48.4	54.0	5.6
4533.2	Hrn2	V			49.5	37.4	-43.4		43.5	54.0	10.5
4533.2	Hrn2	H			51.1	37.4	-43.4		45.1	54.0	8.9
5439.9	Hrn2	V			47.1	40.0	-43.8		43.3	54.0	10.7
5439.9	Hrn2	H			48.1	40.0	-43.8		44.3	54.0	9.7
6346.55	Hrn2	V			47.4	42.7	-40.8		49.3	54.0	4.7
6346.55	Hrn2	H			48.6	42.7	-40.8		50.5	54.0	3.5
7253.2	Hrn2	V			45.8	44.5	-42.3		48.0	54.0	6.0
7253.2	Hrn2	H			47.6	44.5	-42.3		49.8	54.0	4.2
8159.9	Hrn2	V			46.4	47.1	-43.7		49.8	54.0	4.2
8159.9	Hrn2	H			45.6	47.1	-43.7		49.0	54.0	5.0
9066.5	Hrn2	V			46.0	50.5	-43.4		53.1	54.0	0.9
9066.5	Hrn2	H			46.4	50.5	-43.4		53.5	54.0	0.5

Notes:  
 B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole  
 \* Re-measured using dipole antenna.  
 \*\* Includes cable loss when amplifier is not used.  
 \*\*\* Includes cable loss.  
 ( ) Denotes failing emission level.

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**Radiated Photographs - Base (Worst Case Configuration)**

FRONT VIEW

REAR VIEW

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

**Section 4B. Radiated Emissions (Handset)**

NAME OF TEST: Radiated Emissions (Handset)	PARA. NO.: 15.249
TESTED BY: Kevin Carr	DATE: November 23, 1998

**Test Conditions:** Outdoor Range  
 Standard Test Voltage

**Minimum Standard:** Para no. 15.249

(a) The field strengths shall not exceed the following:

Fundamental (MHz)	Field Strength (mV/m)	Field Strength (dBµV)	Harmonic (mV/m)	Harmonic (dBµV)
902-928	50	94	0.5	54

- (b) Field strength limits are specified at a distance of 3 metres.
- (c) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated limits of 15.209 whichever is the less attenuation.
- (d) The emission limits shown above are based on measurement instrumentation employing a CISPR quasi-peak detector below 1000 MHz and an averaging detector above 1000 MHz. However, the peak field strength of any emission shall not exceed the average limit by more than 20 dB.

**Test Results:** Complies. The worst-case emission level is 9277.5 dBµV/m @ 3m at 45.5 MHz. This is 1.3 dB below the specification limit.

**Measurement Data:** See attached table.

**Maximizing Emission Levels:**

For hand held equipment or equipment that may be mounted in a variety of positions, the E.U.T. was tested on three orthogonal axis to determine orientation of worst-case emission levels.

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

**Test Data - Radiated Emissions (Handset)**

**Worst Case Emissions of MK2A and MK2B Systems**

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP HP8566B		RBW(kHz): 1 MHz		Detector: Peak			
Freq. (MHz)	Ant. *	Pol. (V/H)	Ant. HGT. (m)	Table (deg.)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
<b>Channel: 10</b>											
927.75	E/D4	V			51.4	34.9			86.3	94.0	7.7
927.75	E/D4	H			46.0	34.9			80.9	94.0	13.1
1855.5	Hrn2	V			52.7	31.3	-45.9		38.1	54.0	15.9
1855.5	Hrn2	H			54.3	31.3	-45.9		39.7	54.0	14.3
2783.3	Hrn2	V			52.3	34.2	-45.8		40.7	54.0	13.3
2783.3	Hrn2	H			52.0	34.2	-45.8		40.4	54.0	13.6
3711.0	Hrn2	V			48.4	40.2	-45.3		43.3	54.0	10.7
3711.0	Hrn2	H			48.8	40.2	-45.3		43.7	54.0	10.3
4638.8	Hrn2	V			47.4	40.3	-45.7		42.0	54.0	12.0
4638.8	Hrn2	H			48.4	40.3	-45.7		43.0	54.0	11.0
5566.5	Hrn2	V			46.0	42.8	-45.6		43.2	54.0	10.8
5566.5	Hrn2	H			46.3	42.8	-45.6		43.5	54.0	10.5
6494.3	Hrn2	V			46.0	42.8	-40.8		48.0	54.0	6.0
6494.3	Hrn2	H			45.4	42.8	-40.8		47.4	54.0	6.6
7422.0	Hrn2	V			45.4	44.7	-42.1		48.0	54.0	6.0
7422.0	Hrn2	H			45.0	44.7	-42.1		47.6	54.0	6.4
8349.8	Hrn2	V			46.5	49.2	-44.0		51.7	54.0	2.3
8349.8	Hrn2	H			45.0	49.2	-44.0		50.2	54.0	3.8
9277.5	Hrn2	V			45.5	50.6	-43.4		52.7	54.0	1.3
9277.5	Hrn2	H			44.9	50.6	-43.4		52.1	54.0	1.9

Notes:  
 B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole  
 \* Re-measured using dipole antenna.  
 \*\* Includes cable loss when amplifier is not used.  
 \*\*\* Includes cable loss.  
 ( ) Denotes failing emission level.

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

**Test Data - Radiated Emissions (Handset)**

**Worst Case Emissions of MK2A and MK2B Systems**

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP HP8566B		RBW(kHz): 1 MHz		Detector: Peak			
Freq. (MHz)	Ant. *	Pol. (V/H)	Ant. HGT. (m)	Table (deg.)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
<b>Channel: 20</b>											
923.1	R/D4	V			50.4	34.7			84.7	94.0	9.3
923.1	R/D4	H			47.6	34.7			82.3	94.0	11.7
1846.2	Hrn2	V			53.1	31.1	-45.8		38.4	54.0	15.6
1846.2	Hrn2	H			55.9	31.1	-45.8		41.2	54.0	12.8
2769.3	Hrn2	V			52.8	34.2	-45.8		41.2	54.0	12.8
2769.3	Hrn2	H			52.0	34.2	-45.8		40.4	54.0	13.6
3692.4	Hrn2	V			48.2	40.2	-45.3		43.1	54.0	10.9
3692.4	Hrn2	H			50.1	40.2	-45.3		45.0	54.0	9.0
4615.5	Hrn2	V			46.8	40.1	-45.7		41.2	54.0	12.8
4615.5	Hrn2	H			47.1	40.1	-45.7		41.5	54.0	12.5
5538.6	Hrn2	V			47.0	42.7	-45.6		44.1	54.0	9.9
5538.6	Hrn2	H			46.4	42.7	-45.6		43.5	54.0	10.5
6461.7	Hrn2	V			46.8	44.9	-45.2		46.5	54.0	7.5
6461.7	Hrn2	H			46.8	44.9	-45.2		46.5	54.0	7.5
7384.8	Hrn2	V			45.3	46.5	-45.6		46.6	54.0	7.4
7384.8	Hrn2	H			45.8	46.5	-45.6		46.7	54.0	7.3
8307.9	Hrn2	V			45.1	49.0	-44.0		50.1	54.0	3.9
8307.9	Hrn2	H			45.3	49.0	-44.0		50.3	54.0	3.7
9231.0	Hrn2	V			45.0	50.5	-43.4		52.1	54.0	1.9
9231.0	Hrn2	H			44.8	50.5	-43.4		51.9	54.0	2.1

Notes: 2.1  
 B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole  
 \* Re-measured using dipole antenna.  
 \*\* Includes cable loss when amplifier is not used.  
 \*\*\* Includes cable loss.  
 ( ) Denotes failing emission level.

**KTL Ottawa**

FCC PART 15, SUBPART C  
FOR 900 MHz CORDLESS TELEPHONES  
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*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

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**Radiated Photographs - Handset (Worst Case Configuration)**

FRONT VIEW

REAR VIEW

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

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**Section 5. Test Equipment List**

<b>CAL CYCLE</b>	<b>EQUIPMENT</b>	<b>MANUFACTURER</b>	<b>MODEL</b>	<b>SERIAL</b>	<b>LAST CAL.</b>	<b>NEXT CAL.</b>	
1 Year	Spectrum Analyzer-2	Hewlett Packard	8566B	1950A00400	July 22/98	July 22/99	
1 Year	Spectrum Analyzer Display-2	Hewlett Packard	85662A	1950A01177	July 22/98	July 22/99	
1 Year	Quasi Peak Adaptor-2	Hewlett Packard	85650A	2251A00620	July 22/98	July 22/99	
1 Year	LISN	Tegam	95300-50	T-12855/56	July 24/98	July 24/99	
1 Year	Receiver	Rohde & Schwarz	ESVP	892661/014	Mar. 31/98	Mar. 31/99	
2 Year	Horn Antenna	EMCO #2	3115	4336	Oct. 30/97	Oct. 30/99	
1 Year	Dipole Antenna	Roberts Inst.	N/A	FA000747	June 8/98	June 8/99	
1 Year	Low Noise Amplifier	Avantek	AWT-8035	1005	Aug. 4/98	Aug. 4/99	
1 Year	Low Noise Amplifier	DBS Microwave	DWT-13035	9623	Aug. 4/98	Aug. 4/99	
1 Year	Plotter	Hewlett Packard	7550A	FA001129	NCR	NCR	

NA: Not Applicable  
 NCR: No Cal Required

**KTL Ottawa**

FCC PART 15, SUBPART C  
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PROJECT NO.: 8R00987.1  
ANNEX A

*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

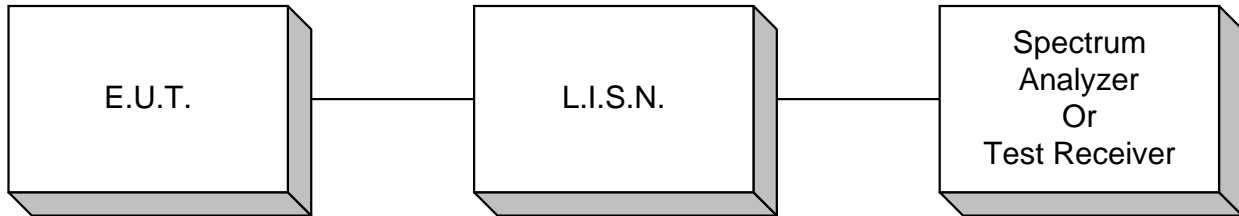
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**ANNEX A**  
**TEST DIAGRAMS**

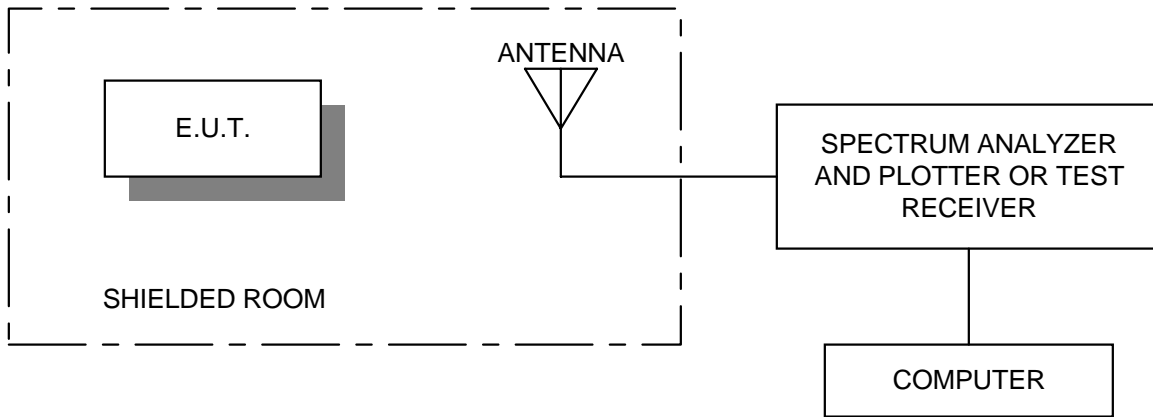
*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

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**Conducted Emissions**



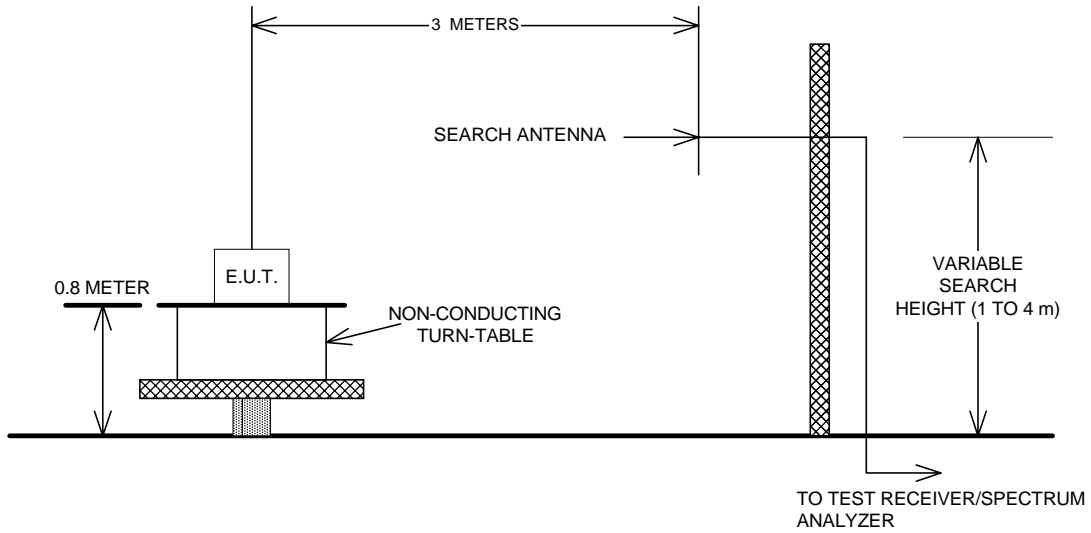
**Radiated Prescan**



*EQUIPMENT: Sony SPP-900 Analog 900 MHz Cordless Telephone*

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**Test Site For Radiated Emissions**



*EQUIPMENT:*

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**ANNEX B**  
**RESTRICTED BANDS OF OPERATION**

*EQUIPMENT:*

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**Section B      Restricted Bands of Operation**

(a) Except as shown in paragraph (d) of this section , only spurious emissions are permitted in any of the frequency bands listed below:

<b>MHz</b>	<b>MHz</b>	<b>MHz</b>	<b>GHz</b>
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.15
0.49 - 0.51	16.69475-16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425-16.80475	960-1240	7.25-7.75
3.020 - 3.026	25.5-25.67	1300-1427	8.025-8.5
4.125 - 4.128	37.5-38.25	1435-1626.6	9.0-9.2
4.17725 - 4.17775	73-74.6	1645.5-1646.5	9.3-9.5
4.20725 - 4.20775	74.8-75.2	1660-1710	10.6-12.7
6.215 - 6.218	108-121.94	1718.8-1722.2	13.25-13.4
6.31175 - 6.31225	123-138	2220-2300	14.47-14.5
8.291 - 8.294	149.9-150.05	2310-2390	15.35-16.2
8.362 - 8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625 - 8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425 - 8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29 - 12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975 - 12.52025	240-285	3345.8-3358	36.43-36.5
12.57675 - 12.57725	322-335.4	3600-4400	Above 38.6
13.36 - 13.41			