FCC 47 CFR PART 15 SUBPART C

Date of Issue: December 12, 2008

TEST REPORT

For

Wireless Remote control

Model: SR803

Trade Name: N/A

Issued to

Everspring Industry Co., Ltd. 7th Fl., 609, Wan Shou Road, Sec. 1, Kweishan, Taoyuan Hsien 333, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc. No. 81-1, Lane 210, Pa-De 2nd Rd., Luchu Hsiang, Taoyuan Shien, (338) Taiwan, R.O.C.

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Revision History

Date of Issue: December 12, 2008

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	December 12, 2008	Initial Issue	ALL	Angel Hu

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1. TEST RESULT CERTIFICATION

Everspring Industry Co., Ltd.

Applicant: 7th Fl., 609, Wan Shou Road, Sec. 1, Kweishan,

Taoyuan Hsien 333, Taiwan, R.O.C.

Date of Issue: December 12, 2008

Equipment Under Test: Wireless Remote control

Trade Name: N/A Model: SR803

Date of Test: November 28 ~ December 5, 2008

APPLICABLE STANDARDS		
STANDARD	TEST RESULT	
FCC 47 CFR Part 15 Subpart C	No non-compliance noted	

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2003 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.231.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Ethan Huang Section Manager

Compliance Certification Services Inc.

Reviewed by:

Julia Wei

Senior Specialist

Compliance Certification Services Inc.

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2. EUT DESCRIPTION

Product	Wireless Remote control
Trade Name	N/A
Model Number	SR803
EUT Power Rating	3VDC from Battery
Frequency Range	923MHz
Output Power	PK: 93.13dBuV/m AV: 72.02dBuV/m
Modulation Technique	FSK Modulation
Number of Channels	1 Channel
Antenna Gain	0dBi
Antenna Designation	Wire (Monopole) antenna

Remark:

- 1. The sample selected for test was production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for FCC ID: <u>FU5SR803</u> filing to comply with Section 15.207, 15.209 and 15.231 of the FCC Part 15, Subpart C Rules.

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3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 (2003) and FCC CFR 47 15.207, 15.209 and 15.231.

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3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 (2003) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4 (2003).

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3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

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

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 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 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	167.72 - 173.2 240 - 285 322 - 335.4	3345.8 - 3358 3600 - 4400	36.43 - 36.5 (²)

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

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² Above 38.6

⁽b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.5 DESCRIPTION OF TEST MODES

The EUT (model: SR803) has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

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The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (Y axis) and the worst case was recorded.

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4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

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4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

966 Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	ADVANTEST	R3271A	85060321	10/22/2009
Bilog Antenna	SCHWAZBECK	VULB9160	3084	N.C.R.
EMI Test Receiver	R&S	ESVS10	834468/006	04/17/2009
Pre-Amplifier	HP	8447D	2944A06530	12/09/2009
Antenna Tower	HD	MA240	240/443	N.C.R
Controller	HD	HD100	100/529	N.C.R
Turn Table	HD	HD320	N/A	N.C.R
Site NSA	SIDT EUROPE	9x6x6	N/A	05/16/2009
Test S/W	CCS-3A1RE			

Remark: 1. The measurement uncertainty is less than +/-4.0235dB (30MHz ~ 1GHz), +/-3.0958dB (Above 1GHz) which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

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^{2.} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILTIES

All measurement facilities used to collect the measurement data are located at
No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, TaiwanTel: 886-2-2299-9720 / Fax: 886-2-2298-4045
No. 81-1, Lane 210, Pa-De 2nd Rd., Luchu Hsiang, Taoyuan Shien, (338) Taiwan, R.O.C. Tel: 886-3-324-0332 / Fax: 886-3-324-5235
The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI

5.2 EQUIPMENT

C63.4 (20030 and CISPR Publication 22.

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	CFR 47, FCC Part15/18, CISPR 22, EN 55022, ICES-003, AS/NZS CISPR 22, VCCI V-3, EN 55011, CISPR 11, IEC/EN 61000-4-2/3/4/5/6/8/11, EN 61000-6-1/2/3/4, EN 55024, CISPR 24, AS/NZS CISPR 24, AS/NZS 61000.6.2, EN 55014-1/-2, ETSI EN 300 386 v1.3.2/v1.3.3, IEC/EN 61000-3-2, AS/NZS 61000.3.2, IEC/EN 61000-3-3, AS/NZS 61000.3.3	ACCREDITED No. 0824-01
USA	FCC MRA	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	FC _{TW1026}
Japan	VCCI	3/10 meter Open Area Test Sites and conducted test sites to perform radiated/conducted measurements	VCCI R-2882/2541/2798/725/1868 C-402/747/912 T-321/325
Taiwan	TAF	EN 55014-1, CISPR 14, CNS 13781-1, EN 55013, CISPR 13, CNS 13439, EN 55011, CISPR 11, CNS 13803, PLMN09, IS2045-0, LP0002 FCC Part 27/90, Part 15B/C/D/E, RSS-192/193/210/310 ETSI EN 300 328/ 300 220-1/ 300 220-2/ 301 893/ 301 489-01/ 301 489-03/ 301 489-07 / 301 489-17/ 300 440-1/ 300 440-2 AS/NZS 4268, AS/NZS 4771 CISPR 22, EN 55022, CNS 13438, AS/NZS CISPR 22, VCCI, IEC/EN 61000-4-2/3/4/5/6/8/11, CNS 14676-2/3/4/5/6/8, CNS 14934-2/3, CNS 13783-1, CNS 13439, CNS 13803	Taf Testing Laboratory 0363
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439, CNS 14115	SL2-IS-E-0014 / IN-E-0014 /A1-E-0014 /R1-E-0014 /R2-E-0014 /L1-E-0014
Canada	Industry Canada	RSS212, Issue 1	Canada IC 2324C-3 IC 2324C-5

Note: No part of this report may be used to claim or imply product endorsement by A2LA, TAF or other government agency.

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6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

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6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
	N/A						

**No any support equipment during the test.

Remark: Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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7. FCC PART 15.231 REQUIREMENTS

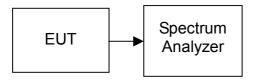
7.1 20dB BANDWIDTH

LIMIT

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

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TEST CONFIGURATION



TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The spectrum analyzer center frequency is set to the transmitter frequency. The RBW is set to 10 kHz and VBW is set 10kHz.

TEST RESULTS

No non-compliance noted

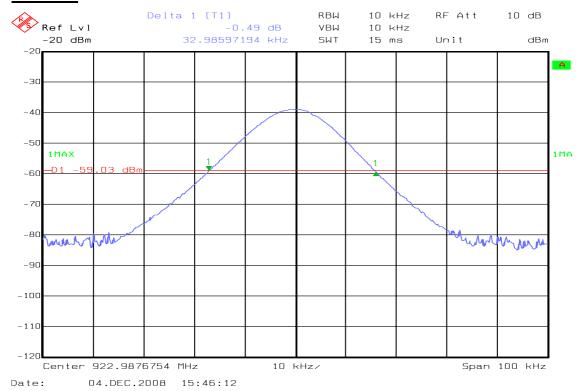
TEST DATA

Frequency (MHz)	20 dB Bandwidth (kHz)	Limit (MHz)	Result
923	32.985	4.615	PASS

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Test Plot



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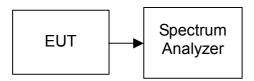
7.2 LIMIT OF TRANSMISSION TIME

LIMIT

According to 15.231 (a)(1), a manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

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TEST CONFIGURATION



TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The spectrum analyzer center frequency is set to the transmitter frequency. The RBW and VBW are set to 100kHz.

TEST RESULTS

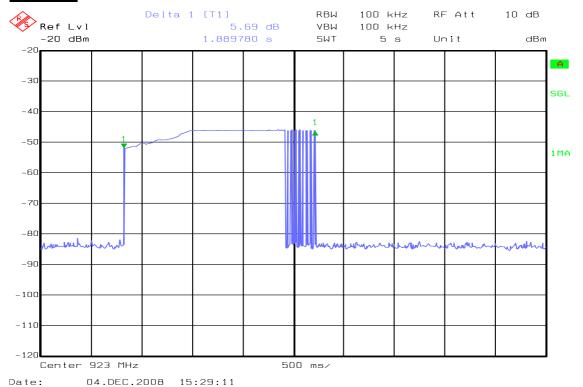
No non-compliance noted

TEST DATA

Frequency (MHz)	Transmission time (s)	Limit (Second)	Result
923	1.88978	5.00	PASS

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Test Plot



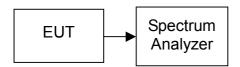
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7.3 DUTY CYCLE

LIMIT

Nil (No dedicated limit specified in the Rules)

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = operating frequency.
- 4. Set the spectrum analyzer as RBW, VBW=100KHz, Span = 0Hz, Adjust Sweep = 30s.
- 5. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

No non-compliance noted

TEST DATA

Tp = 220.73ms

Ton = 19.42ms

Toff = 201.31ms

Factor = 20 * log(Ton / Tp) = 20 * log(19.42/220.73) = -21.11224dB

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7.4 SPURIOUS EMISSIONS

7.4.1 RADIATED EMISSIONS

LIMIT

In the section 15.231(b): In addition to the provisions of Section 15.205, the field strength
of emissions from intentional radiators operated under this Section shall not exceed the
following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2250	225
70 - 130	1250	125
130 - 174	1250 to 3750*	125 to 375*
174 – 260	3750	375
260 - 470	3750 to 12500*	375 to 1250*
Above 470	12500	1250

2. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

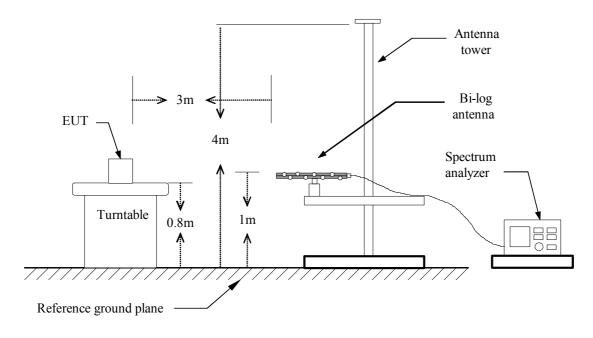
3. In the emission table above, the tighter limit applies at the band edges.

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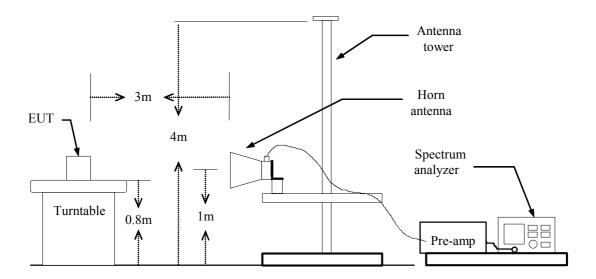
81126205-RP1 FCC ID: FU5SR803 Date of Issue: December 12, 2008

TEST CONFIGURATION

Below 1 GHz



Above 1 GHz



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TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.

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- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

TEST RESULTS

No non-compliance noted.

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TEST DATA

Below 1 GHz

Operation Normal Link TX Test Date: December 5, 2008

Date of Issue: December 12, 2008

Temperature: 26°C **Tested by**: Alonso Lu

Humidity: 60% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Detector Mode (PK/QP)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)
36.9285	V	peak	36.73	-15.01	21.72	62.00	-40.28
72.9570	V	peak	39.79	-16.98	22.81	62.00	-39.19
93.7429	V	peak	40.22	-17.27	22.95	62.00	-39.05
161.6428	V	peak	33.51	-12.35	21.16	62.00	-40.84
758.8857	V	peak	39.91	-2.79	37.12	62.00	-24.88
812.9285	V	peak	40.49	-1.73	38.76	62.00	-23.24
36.9285	Н	peak	39.23	-15.01	62.00	-37.78	-57.78
52.1713	Н	peak	40.75	-14.81	62.00	-36.06	-56.06
66.0285	Н	peak	43.52	-15.83	62.00	-34.31	-54.31
704.8428	Н	peak	43.47	-4.34	62.00	-22.87	-42.87
758.8857	Н	peak	48.66	-2.79	62.00	-16.13	-36.13
812.9285	Н	peak	50.99	-1.73	62.00	-12.74	-32.74

Remark:

- 1. No emission found between lowest internal used / generated frequency to 30 MHz. (9kHz ~ 30MHz)
- 2. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

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Above 1 GHz

Operation November 28 ~ Normal Link TX **Test Date:** Mode: December 4, 2008

18°C Tested by: **Temperature:** Stan Lin 52% RH **Humidity:** Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
922.8857	V	84		-0.62	83.38	62.27	101.94	81.94	-18.56	Peak
1848.00	V	64.51	44.51	-6.40	58.11	38.11	74.00	54.00	-15.89	AVG
2772.00	V	57.89	37.89	-3.15	54.74	34.74	74.00	54.00	-19.25	AVG
3686.00	V	53.67	33.67	0.06	53.74	33.74	74.00	54.00	-20.26	AVG
4610.00	V	50.19		1.25	51.45		74.00	54.00	-2.55	Peak
5534.00	V	49.64	29.64	3.43	53.07	33.07	74.00	54.00	-20.93	AVG
6458.00	V	46.04		4.35	50.39		74.00	54.00	-3.61	Peak
8306.00	V	43.01		7.56	50.58		74.00	54.00	-3.42	Peak
		1	Γ			T		1		
922.8857	Н	93.75		-0.62	93.13	72.02	101.94	81.94	-8.81	Peak
1848.00	Н	72.75	52.75	-6.40	66.35	46.35	74.00	54.00	-7.65	AVG
2772.00	Н	62.17	42.17	-3.15	59.02	39.02	74.00	54.00	-14.98	AVG
3686.00	Н	58.17	38.17	0.06	58.23	38.23	74.00	54.00	-15.77	AVG
4610.00	Н	61.34	40.34	1.25	62.59	42.59	74.00	54.00	-11.41	AVG
5534.00	Н	51.81	31.81	3.43	55.24	35.24	74.00	54.00	-18.76	AVG
6458.00	Н	50.64	30.64	4.35	54.99	34.99	74.00	54.00	-19.01	AVG
7382.00	Н	48.26	28.26	6.81	55.07	35.07	74.00	54.00	-18.93	AVG
8306.00	Н	45.69	25.69	7.56	53.26	33.26	74.00	54.00	-20.74	AVG
9244.00	Н	43.12		8.04	51.16		74.00	54.00	-2.84	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Result (Peak or Average) (dBuV/m) (Peak or Average) Limit (Peak or Average) (dBuV/m).

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7.5 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

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Frequency Range (MHz)	Limits (dBμV)				
(11112)	Quasi-peak	Average			
0.15 to 0.50	66 to 56*	56 to 46*			
0.50 to 5	56	46			
5 to 30	60	50			

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

TEST CONFIGURATION

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

TEST DATA

Not applicable (Since the EUT is powered by battery)

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