



**EMC Test Report No:
EMC00050**

FOR

Video King Gaming Systems, Inc.
100-1475 Chevrier Blvd.
Winnipeg, MB R3T 1Y7


Power Bingo King
RF REMOTE TRANSMITTER

Model: 12RFREMO



FCC ID:
SKCTrans-1

DATED:
FEBRUARY 3, 2006

IN ACCORDANCE WITH
FCC CFR 47 PART 15, SUBPART C

FCC ID: SKCTTRANS-1	
REPORT NO.: ATEMC00050	
FCC CFR 47 Part 15	

Test Lab Personnel:

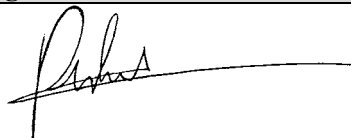
Test Performed by:	Date	Signature
Paul Eberling, CNA Electronic Technologist	February 3, 2006	
Wayne Schellekens; Senior Engineer	February 3, 2006	

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Document Template Revision History:

Date	Name	Revision	Description
01/31/2002	Elwood Friesen	1.0	Initial Release
04/15/2002	Paul Eberling	1.2	Reviewed

Approvals:

Date	Name	Title	Signature
February 3, 2006	Roman Wroczynski	Director; Development & Test	

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1. Arrista PCT Facility

Arrista Technologies Inc.
 5-55 Henlow Bay
 Winnipeg, MB, R3Y 1G4
 Ph: 1-204-489-3200
 Fax: 1-204-489-8300
 Email: pctlab@arrista.com
 Web: <http://www.arrista.com>

1.1. General


This document details the results of CFR 47, FCC part 15 tests performed by Arrista Technologies, Inc. The testing was done between Dec 2005 through January 2006 on the Video King Gaming Systems, Inc. RF Remote Transmitter model number 12RFREMO

1.2. Test Facilities Description

1.2.1. Internal Facilities

Arrista Technologies Product Compliance & Test (PCT) laboratory facility has test equipment for Electromagnetic Compatibility (EMC) testing i.e. RF susceptibility and radiated emissions. The laboratory is located at 5-55 Henlow Bay, Winnipeg, Manitoba, Canada at Arrista Technologies main facility. The PCT Laboratory is registered with the FCC and has submitted the information required by Section 2.948 of the FCC Rules for measuring devices subject to Certification under Parts 15 & 18. Test equipment used to perform all measurements listed in Section 1.7 Subsection 1.7.2 and 1.7.4.

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Article 01-Letter of Certification

FEDERAL COMMUNICATIONS COMMISSION
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046

AUG - 1 2003

July 25, 2003

Registration Number: 97780

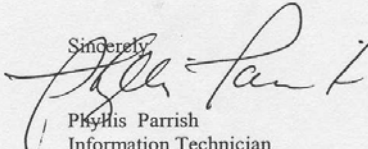
Arrista Technologies
5-55 Henlow Bay
Winnipeg, MB, R3Y 1G4
Canada
Attention: Elwood Friesen

Re: Measurement facility located at Winnipeg
Anechoic chamber (3 meters)
Date of Renewal: July 25, 2003


Dear Sir or Madam:

Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website www.fcc.gov under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,

Phyllis Parrish
Information Technician

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1.2.2. Radiated Emissions Test Site

Radiated Emissions testing is performed in Arrista Technologies semi-anechoic 3m test chamber. The site consists of a 28' X 20' X 20' shielded chamber with absorptive materials on the walls and ceiling. The floor of the chamber is a raised conductive ground plane and includes a 2 m conductive top turntable. The measuring antenna is mounted on a non-conductive mast, which can be raised between 1 to 4 meters. Measurement equipment is located in the adjacent control room which is a 12' X 12' X 8' shielded structure.

Article 02-Test Equipment

Test Equipment				
Description	Model	Serial Number	Last Cal Date	Cal Interval
EMI Receiver	Dynamic Sciences DSI-2020	603	05/28/2005	Annual
Turntable and Mast Controller	EMCO 2090	9812-1384	N/A	N/A
Antenna Mast	EMCO 2075-2 Mini-Mast	9812-2208	N/A	N/A
Bilog EMC Antenna	Schaffner-Chase CBL6112A	2308	08/28/2005	Annual
Db1-Ridged Horn Antenna	EMCO 3115	9711-5345	05/05/2005	Annual
22 GHz Spectrum Analyzer	HP 8593E	3249A00377	06/23/2005	Annual
3GHz Spectrum Analyzer	U3641	J003710	07/18/2005	Annual
Metal Top Turntable	EMCO 2081-2.03	N/A	N/A	N/A
Microwave Coaxial Cable	Sucoflex Blue	498	02/21/2004	Bi-Annual
6 dB Attenuator	Hewlett-Packard	6dB	N/A	N/A
LISN	FCC-LISN-50/250	9708	04/18/2005	Annual
LISN	Wayne Kerr IXLSN30B	000343	N/A	N/A

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2. Description

2.1. Equipment Under Test Description

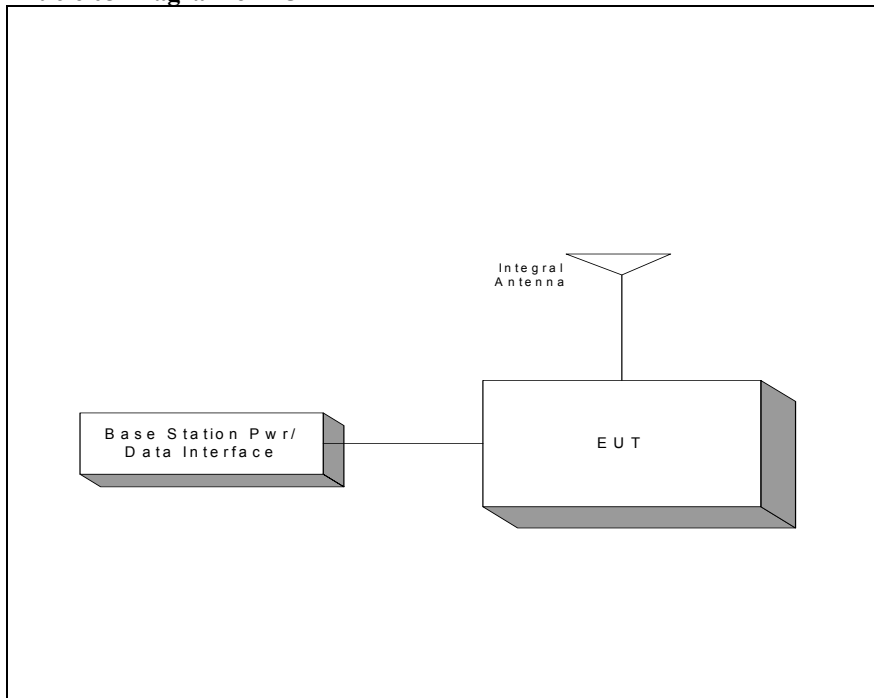
The RF Base Transmitter provides wireless communications in the 902-928 MHz band. The EUT is sold under the following trade names:

- **Power Bingo King RF Remote Transmitter**


The system consists of a one-piece transmitter configured as per typical installation, this version has a permanently mounted antenna. This version is the only version that is marketed and sold to the public.

Note: A test unit was provided with a RF test port interface allowing Arrista Technologies PCT to perform RF conducted testing directly without the antenna. The EUT design of both versions are identical.

Article 03-Diagram of EUT



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2.2. Application and Exceptions

All tests were performed using ANSI C63.4-1992 as the measurement standard, and following guidelines as required in FCC CFR 47 Part 15.31 and DA 00-705, "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems", March 2000. **If measurements cannot be made at the antenna port, the alternative procedures as outlined in FCC Public Notice DA 00-705 must be followed. Seeing that a version of the EUT was provided with a RF test port, the procedure outlined in FCC Public Notice DA 00-705 was not used.**

The following change was instituted to allow the EUT meet requirements:

None

The EUT was operated under the following conditions:

1. 120 VAC supply through a power adapter

This mode of operation was chosen by the client to simulate normal use of this device.

2.3. Deviations

The following deviations from, additions to, or exclusions from the test specifications have been made:

None.


2.4. Test Requirements and Results

Testing was performed using procedures or criteria contained in the regulatory documents and standards specified below. The 915 MHz RF transmitter has been found to conform to the following parts of 47 CFR as detailed below:

Article 04-Test Requirements & Results Summary

Test Reference	Comments	Results
ANSI C63.4-1992 Methods of measurement of radio-noise emissions	N/A	PASS See Section 3
FCC CFR 47 Part 15.15(b); General Technical Requirements	The product contains no user accessible controls that would increase transmission power above allowable limits	PASS See Section 3
FCC CFR 47 Part 2.925, 15.19; Labelling Requirements	The label is shown in the exhibit	See Label Exhibit


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Test Rerences	Comment	Result
FCC CFR 47 Part 15.21; Information to User	Information to the user is shown in the instruction manual	See User Manual Exhibit
FCC CFR 47 Part 15.27; Special Accessories	No Special Accessories are required for compliance.	PASS
FCC CFR 47 Part 15.203; Antenna Power Conduction	Antenna is permanently fixed	PASS See Section 3
FCC CFR 47 Part 15.204; Ext. Antenna Modifications	None	PASS See Section 3
FCC CFR 47 Part 15.205, 15.209; Emission in Restricted Bands	The fundamental is not located in a Restricted Band and the spurious emissions in the Restricted Band comply with limits of 15.209	PASS See Section 3
FCC CFR 47 Part 15.109, 15.209; Radiated Emissions	Data is provided in Report	PASS See Appendix A
FCC CFR 47 Part 15.107, 15.207 Conducted Emissions	Data is provided in Report	PASS See Appendix A
FCC CFR 47 Part 15.247 Intentional Radiators	Carrier Frequencies are separated by a minimum of 20dB separation	PASS See Section 3
FCC CFR 47 Part 15.247(2); Operation in the Band 902-928 MHz	Peak Output Power is less than 1W. See Appendix B	PASS See Section 3
FCC CFR 47 Part 15.247(4); Operation in the Band 902-928 MHz	EUT antenna gain is less than 6dBi	PASS See Section 3

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Test Reference	Comments	Results
FCC CFR 47 Part 15.247(4)(i),(ii),(iii); Operation in the Band 902-928 MHz	EUT does not operate in specified frequency bands	PASS
FCC CFR 47 Part 15.247(2); Operation in the Band 902-928 MHz	Meets RF Exposure Guidelines	See RF Exposure Limits
FCC CFR 47 Part 15.247(c); Operation in the Band 902-928 MHz	The EUT meets 20 dB Bandwidth measurements	PASS See Appendix B

2.4.1. Correction Factors

The DSI-2020.exe and EMI_Receiver.vi software used to capture the data apply correction factors automatically. The following formula illustrates the application of correction factors to obtain a corrected measurement:

$$\text{Voltage}_{\text{dBuV/m}} = \text{Measured Voltage}_{\text{dBuV}} + \text{Cable Attenuation}_{\text{dB}} + \text{Additional Attenuation}_{\text{dB}} + \text{Antenna Factor}_{\text{dB/m}}$$

2.4.2. Conducted Emissions Test Site


Conducted emissions tests were performed in the shielded control room utilizing a Line Impedance Stabilization Network (LISN). The metal wall of the control room is used as the vertical conducting plane and the two LISN's are bonded to the ground plane. Measurements from the FCC-LISN-50/250 LISN are taken using the EMI receiver in the control room. The second LISN is used to power peripheral equipment and is not used for measurements.

3. Test Results

3.1. 15.203 Antenna Power Conduction

The marketed unit is produced with a permanently attached antenna and has no provision for user service, replacement or antenna modification. The requirements of 15.203 are fulfilled and there are no deviations or exceptions to the specification.

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3.2. 15.204 External Antenna Modifications

The antenna utilized on the marketed version, is permanently attached and consists of the following specifications;

Manufacturer: Linx Technologies

Type: Monopole antenna

Gain: 2.7 dBi maximum

3.3. 15.205; Emissions in Restricted Bands

Spurious emissions falling in the restricted bands of operation were measured at a distance of 3 meters. The EUT utilizes frequency-determining circuitry, which generates harmonics falling in the restricted bands. Emissions were checked using appropriate antennas or pyramidal horns and a spectrum analyzer. No significant emission was observed which fell into the restricted bands of operation.


Complies

See tables below:

Article 05-Restricted Bands; Low Channel

Low Chan	Antenna Horizontal						
	Fund	902.00					
	Freq	SA					
	MHz	Reading	Ant Corr	Cable Corr	Final	Limit	Delta
	2706	16.30	28.30	2.50	47.10	54.00	-6.90
	3608	15.10	30.00	2.67	47.77	54.00	-6.23
	4510	15.00	32.20	3.34	50.54	54.00	-3.46
	Antenna Vertical						
	Fund	902.00					
	Freq	SA					
	MHz	Reading	Ant Corr	Cable Corr	Final	Limit	Delta
	2706	17.10	28.30	2.50	47.90	54.00	-6.10
	3608	16.30	30.00	2.67	48.97	54.00	-5.03
	4510	15.10	32.20	3.34	50.64	54.00	-3.36

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Article 06-Restricted Bands; Mid Channel

Mid Chan	Antenna Horizontal						
	Fund	915.00					
	Freq	SA					
	MHz	Reading	Ant Corr	Cable Corr	Final	Limit	Delta
	2745	17.00	28.30	2.50	47.80	54.00	-6.20
	3660	16.10	30.00	2.67	48.77	54.00	-5.23
	4575	15.50	32.20	3.34	51.04	54.00	-2.96
	Antenna Vertical						
	Fund	915.00					
	Freq	SA					
	MHz	Reading	Ant Corr	Cable Corr	Final	Limit	Delta
	2745	17.33	28.30	2.50	48.13	54.00	-5.87
	3660	15.30	30.00	2.67	47.97	54.00	-6.03
	4575	15.10	32.20	3.34	50.64	54.00	-3.36

Article 07-Restricted Bands; High Channel

High Chan	Antenna Horizontal						
	Fund	928.00					
	Freq	SA					
	MHz	Reading	Ant Corr	Cable Corr	Final	Limit	Delta
	2784	17.30	28.30	2.50	48.10	54.00	-5.90
	3712	15.50	30.00	2.67	48.17	54.00	-5.83
	4640	15.30	32.20	3.34	50.84	54.00	-3.16
	Antenna Vertical						
	Fund	928.00					
	Freq	SA					
	MHz	Reading	Ant Corr	Cable Corr	Final	Limit	Delta
	2784	17.50	28.30	2.50	48.30	54.00	-5.70
	3712	15.50	30.00	2.67	48.17	54.00	-5.83
	4640	15.10	32.20	3.34	50.64	54.00	-3.36

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3.4. 15.107, 15.207 Conducted Emissions Out of Power Lines

Equipment Under Test is configured as per **Fig 9(c) Test Configuration – Tabletop Equipment** in **ANSI C63.4-1992**. See Appendix C

Conducted Emission limits for FCC compliance are listed below.

Article 08- Limits of Conducted Emission Measurement for Frequency Below 30 MHz

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

*Decreases with the logarithm of the frequency.

Pre-scan measurements are taken using a peak detector sweep of each Line-to-Ground. Sample time is optimized for sweep speed. Final measurements are taken at emission frequencies discovered in the pre-scans. Average, Peak and quasi-peak readings are recorded.

Complies


See Appendix A for Plots.

3.4.1. Final Measurements: Conducted Emissions

Conducted emission peaks were located above a delta of 20 dB from the FCC limit line during the pre-scan of the EUT. The noise-floor of the measuring device, with correction factors applied is displayed in the pre-scan test results. Due to the low emissions of the EUT, final quasi-peak measurement results are shown for only those peaks, which the peak value is above the 20 dB delta from the FCC limit line.

The top 6 emissions within the 20 dB limit have been recorded.

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DATA.TXT - Notepad

File Edit Format Help

Arrista Technologies Product Compliance Lab

Printed: 08/05/04 15:29:56

Datalog file: TEST EUT - DATA1.DL

Measurement Units: dBuV

Num	Frequency	Bandwidth	Corr	Avg	Peak	QPeak	Limit	Delta	Date	Time
1	170.736 kHz	9 kHz	1.8	46.9	55.0	53.5	54.8	-7.9	08/05/04	15:22:10
Notes: L2: Average Limit										
2	170.736 kHz	9 kHz	1.8	46.9	54.6	53.0	64.9	-11.6	08/05/04	15:26:55
Notes: L2: Quasi-peak Limit										
3	176.975 kHz	9 kHz	1.8	44.5	54.0	49.8	54.6	-10.0	08/05/04	15:24:04
Notes: L2: Average Limit										
4	176.975 kHz	9 kHz	1.8	46.0	54.5	52.4	64.5	-12.1	08/05/04	15:27:26
Notes: L2: Quasi-peak Limit										
5	240.238 kHz	9 kHz	1.3	16.6	38.0	30.4	52.1	-35.5	08/05/04	15:24:46
Notes: L2: Average Limit										
6	240.238 kHz	9 kHz	1.3	18.4	38.6	30.4	62.1	-31.6	08/05/04	15:27:49
Notes: L2: Quasi-peak Limit										
7	1.008659 MHz	9 kHz	0.6	38.1	44.6	44.1	46.0	-7.7	08/05/04	15:25:17
Notes: L2: Average Limit										
8	1.008659 MHz	9 kHz	0.6	37.3	44.6	44.3	56.0	-11.5	08/05/04	15:28:01
Notes: L2: Quasi-peak Limit										
9	1.531087 MHz	9 kHz	0.6	32.6	41.7	40.8	46.0	-13.3	08/05/04	15:25:55
Notes: L2: Average Limit										
10	1.531087 MHz	9 kHz	0.6	30.6	41.9	41.4	56.0	-14.4	08/05/04	15:28:28
Notes: L2: Quasi-peak Limit										
11	3.187215 MHz	9 kHz	0.6	30.2	41.8	41.3	46.0	-15.6	08/05/04	15:26:22
Notes: L2: Average Limit										
12	3.187215 MHz	9 kHz	0.6	29.9	41.8	41.3	56.0	-14.5	08/05/04	15:28:47
Notes: L2: Quasi-peak Limit										

3.5. 15.109, 15.209 Radiated Emissions: 30MHz to 2GHz

Radiated Emission limits for FCC compliance are listed in the tables below. Frequency was investigated up to 10th harmonic (9.280 GHz).


Article 09-Limits of Radiated Emission Measurement (uV/m)

Frequency of emission (MHz)	Field strength (microvolts/meter)
30-88	100
88-216	150
216-960	200
Above 960	500

Article 10-Limits of Radiated Emission Measurement (dBuV/m)

Frequency (MHz)	Class B (at 3m)
	dBuV/m
30 - 88	40.0
88 - 216	43.5
216 - 960	46.0
Above 960	54.0

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3.6. EUT Orientations

Pre-scans of the product are taken using peak detector sweeps in four EUT orientations and using both vertical and horizontal polarization of the measuring antenna. Azimuth angles are spaced by 90 degrees of turntable rotation, more specifically 0, 90, 180, 270 Degrees respectively. See Appendix A; [Equipment Setup for Radiated Emissions](#). Sampling time is optimized for maximum speed.

Equipment Under Test is configured as per **Fig 9(c) Test Configuration – Tabletop Equipment Radiated Emissions in ANSI C63.4-1992**. See Appendix C

Complies

See Appendix A for Plots.

3.7. Final Measurements: Radiated Emissions; 30 MHz – 2GHz


Final Measurements are made by measuring emissions observed in the pre-scan results. At each frequency of measurement, the antenna height and polarity and EUT azimuth are varied to obtain the maximum emission. The measurements are recorded using the antenna polarization that produces the highest emissions. Peak, quasi-peak and average detector readings are recorded.

The top 6 emissions within the 20 dB limit have been recorded.

Article 11-Peak; Quasi-Peak Emission Measurement; Final Readings

Arrista Technologies Product Compliance Lab Printed: 08/09/04 14:59:23										
Datalog file: TEST EUT - DATAV.DL Measurement Units: dBµV/m										
Num	Frequency	Bandwidth	Corr	Avg	Peak	QPeak	Limit	Delta	Date	Time
1	31.870255 MHz	120 kHz	23.3	15.9	27.3	21.8	40.0	-18.1	08/05/04	11:00:01
Notes: Ant Vert @ 138cm; Azm @ 270 Degrees										
2	36.117746 MHz	120 kHz	20.8	14.3	26.3	20.9	40.0	-19.1	08/05/04	10:59:16
Notes: Ant Vert @ 138cm; Azm @ 270 Degrees										
3	437.498348 MHz	120 kHz	24.3	33.8	36.8	35.3	46.0	-10.5	08/05/04	10:24:42
Notes: Ant Horiz @ 100cm; Azm 81 Degrees										
4	562.488380 MHz	120 kHz	26.1	44.1	45.9	44.7	46.0	-1.1	08/05/04	10:33:10
Notes: Ant Horiz @ 138cm; Azm @ 70 Degrees										
5	562.492046 MHz	120 kHz	26.3	40.1	42.8	41.2	46.0	-4.7	08/05/04	11:03:11
Notes: Ant Vert @ 155cm; Azm @ 150 Degrees										
6	687.490050 MHz	120 kHz	26.6	41.9	44.4	42.6	46.0	-3.2	08/05/04	11:04:28
Notes: Ant Vert @ 139cm; Azm @ 0 Degrees										
7	687.513971 MHz	120 kHz	26.8	38.8	42.1	40.2	46.0	-5.7	08/05/04	10:53:51
Notes: Ant Horiz @ 124cm; Azm @ 266 Degrees										
8	1.725757179 GHz	1 MHz	33.1	45.0	53.2	49.2	54.0	-4.7	08/09/04	14:57:31
Notes: Ant Horiz @ 100cm; Azm @ 0 Degrees										
9	1.774923940 GHz	1 MHz	33.1	44.4	52.9	48.6	54.0	-5.2	08/09/04	14:51:03
Notes: Ant Vert @ 150cm; Azm @ 0 Degrees										
10	1.838356861 GHz	1 MHz	33.3	44.8	54.1	49.1	54.0	-4.7	08/09/04	14:57:10
Notes: Ant Horiz @ 100cm; Azm @ 0 Degrees										
11	1.944598459 GHz	1 MHz	34.2	45.8	55.0	50.2	54.0	-3.7	08/09/04	14:52:18
Notes: Ant Vert @ 100cm; Azm @ 0 Degrees										

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3.8. Radiated Emissions: 2.0GHz to 9.3GHz

Radiated Emission limits for FCC compliance are listed in the tables below. Frequency was investigated up to the 10th Harmonic (9.3 GHz) as per FCC rules and shown in the following plots.

3.9. EUT Orientations

Pre-scans of the product are taken using peak detector sweeps in four EUT orientations and using both vertical and horizontal polarization of the measuring antenna. Azimuth angles are spaced by 90 degrees of turntable rotation, more specifically 0, 90, 180, 270 Degrees respectively. See Appendix A; [Equipment Setup for Radiated Emissions](#). Sampling time is optimized for maximum speed. Measurements were taken using low, mid and high frequency of operation. As stated previously, there were no emissions in the range of 2.0 – 9.3 GHz.

Equipment Under Test is configured as per **Fig 9(c) Test Configuration – Tabletop Equipment Radiated Emissions** in **ANSI C63.4-1992**. See Appendix C

Complies

See Appendix A for Plots.


3.10. Final Measurements: Radiated Emissions; 2GHz – 9.3 GHz

Final Measurements are made by measuring emissions observed in the pre-scan results. At each frequency of measurement, the antenna height and polarity and EUT azimuth are varied to obtain the maximum emission. The measurements are recorded using the antenna polarization that produces the highest emissions.

Article 12-Final Measurements

Antenna Horizontal						
Freq (MHz)	SA Reading (dBuV)	Ant Corr (dB)	Cable Corr (dB)	Final (dBuV)	Limit (dBuV)	Delta (dB)
2090	18.33	27.40	2.17	47.90	54.00	-6.10
2541	18.17	28.30	2.50	48.97	54.00	-5.03
2953	17.30	30.00	2.67	49.97	54.00	-4.03
4280	15.50	32.20	3.34	51.04	54.00	-2.96
4990	15.00	33.20	3.67	51.87	54.00	-2.13

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Antenna Vertical						
Freq (MHz)	SA Reading (dBuV)	Ant Corr (dB)	Cable Corr (dB)	Final (dBuV)	Limit (dBuV)	Delta (dB)
2090	18.33	27.30	2.50	48.13	54.00	-5.87
2541	18.67	28.30	2.50	49.47	54.00	-4.53
2953	17.17	30.00	2.67	49.84	54.00	-4.16
4280	15.50	32.20	3.34	51.04	54.00	-2.96
4990	15.00	33.20	3.67	51.87	54.00	-2.13

3.11. 15.247 Operation in the Band 902-928 MHz; Test Procedures for Conducted Tests

Two versions of the EUT were provided, a version with a permanently attached antenna and the other, with an RF test port interface. The EUT design of both versions are identical.

The RF conducted test measurements were performed using the EUT with the RF test port. All radiated measurements and power line conducted measurements were performed using the EUT version with the permanently mounted antenna.

The EUT with the permanently mounted antenna is the only version that is sold and /or marketed to the public..

3.11.1. 15.247(a) Carrier Frequency Separation


The EUT is a frequency hopping spread spectrum intentional radiator utilizing a minimum of 50 hopping channels. The 20dB separation has been met. See Plots in Appendix B.

3.11.2. 15.247(a) 20dB Bandwidth

EUT was transmitting at its maximum data rate. Markers were set on each side of the carrier 20dB down from the peak level. Three separate carriers were measured, specifically low, mid and high channels. The measured 20dB bandwidth has been met. The bandwidths were recorded.

See Appendix B for plots.

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	Base Freq	902.1696			
Meas. Channels	Channel	Frequency (MHz)	20dB Min. (MHz)	20 dB Max. (MHz)	20dB BW (kHz)
Low	1	902.3232	902.2732	902.7470	88.500
Mid	40	908.3136	908.2631	915.6495	89.500
High	160	926.7456	926.6946	923.4825	89.000

3.11.3. 15.247(b)(2) Transmitter Peak Power

The measurement peak transmitter output level complies with the requirements of the referenced section above

See Plots in Appendix B.

3.11.4. 15.247(b)(5) RF Exposure Compliance

See separate MPE Exhibit (MPE0007).

3.11.5. 15.247(c) RF Spurious Emissions

2) To demonstrate compliance with the spurious RF conducted emission requirement of Section 15.247(c), use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz

VBW \geq RBW

Sweep = auto

Detector function = peak


Trace = max hold

Measure the field strength of both the fundamental emission and all spurious emissions with these settings. Follow the procedures in C63.4-1992 with respect to maximizing the emissions. The measured field strength of all spurious emissions must be below the measured field strength of the fundamental emission by the amount specified in Section 15.247(c). Note that if the emission falls in a Restricted Band, as defined in Section 15.205, the procedure for measuring spurious radiated emissions, listed above, must be followed.

Complies

See plots in Appendix B.

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4. Setup Photos


Article 13-Radiated Emissions; 0 Degrees



Article 14-Radiated Emissions; 180 Degrees



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Article 15-RF Conducted Emissions with EUT version with RF Test Port Interface;



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