



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8**

CERTIFICATION TEST REPORT

FOR

WIRELESS SECURITY REMOTE KEYFOB

MODEL NUMBER: WST-100

**FCC ID: XQC-WST100
IC: 9863B-WST100**

REPORT NUMBER: 11U13988

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Prepared for
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CA, 92011, USA**

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NVLAP LAB CODE 100255-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	8/23/11	Initial Issue	M. Antola
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: ECOLINK
2055 CORTE DEL NOGAL
CARLSBAD, CA, 92011, USA

EUT DESCRIPTION: Wireless Security Remote Key Fob

MODEL: WST-100

SERIAL NUMBER: Non-serialized prototype

DATE TESTED: 2011-08-17 to 2011-08-18

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Pass
INDUSTRY CANADA RSS-210 Issue 8, Annex 1	Pass
INDUSTRY CANADA RSS-GEN Issue 3	Pass

Underwriters Laboratories Inc. tested the RF Exposure of the above equipment in accordance with the requirements set forth in the above standards, using test results reported in the test report documents referenced below and/or documentation furnished by the applicant. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Inc. based on interpretations of these calculations. The results show that the equipment is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation, as described by the referenced documents. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For UL By:

Tested By:



Bob DeLisi
Senior Staff Engineer
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Mike Antola
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UL

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 1285 Walt Whitman Rd. Melville, NY 11747, USA.

UL Melville is accredited by NVLAP, Laboratory Code 100255-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/1002550.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	± 3.3 dB
Radiated Disturbance, 30 to 1000 MHz	± 4.00 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The WSR-100 remote is a short range wireless remote which can be used to arm and disarm a residential security system. Commands are sent by pressing any of the four buttons on the front of the device. The LED at the top of the WSR-100 remote will illuminate to indicate that the button has been pressed and the command is being transmitted.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a permanently attached, internal loop antenna, with a maximum gain of -15 dBi.

5.3. SOFTWARE AND FIRMWARE

None

5.4. WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined as the channel with the highest output power. The EUT was examined in all three orthogonal axes. Final testing was conducted in the worse-case orientation, which was found to be the X-Axis.

5.5. MODIFICATIONS

No modifications were made during testing.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

None

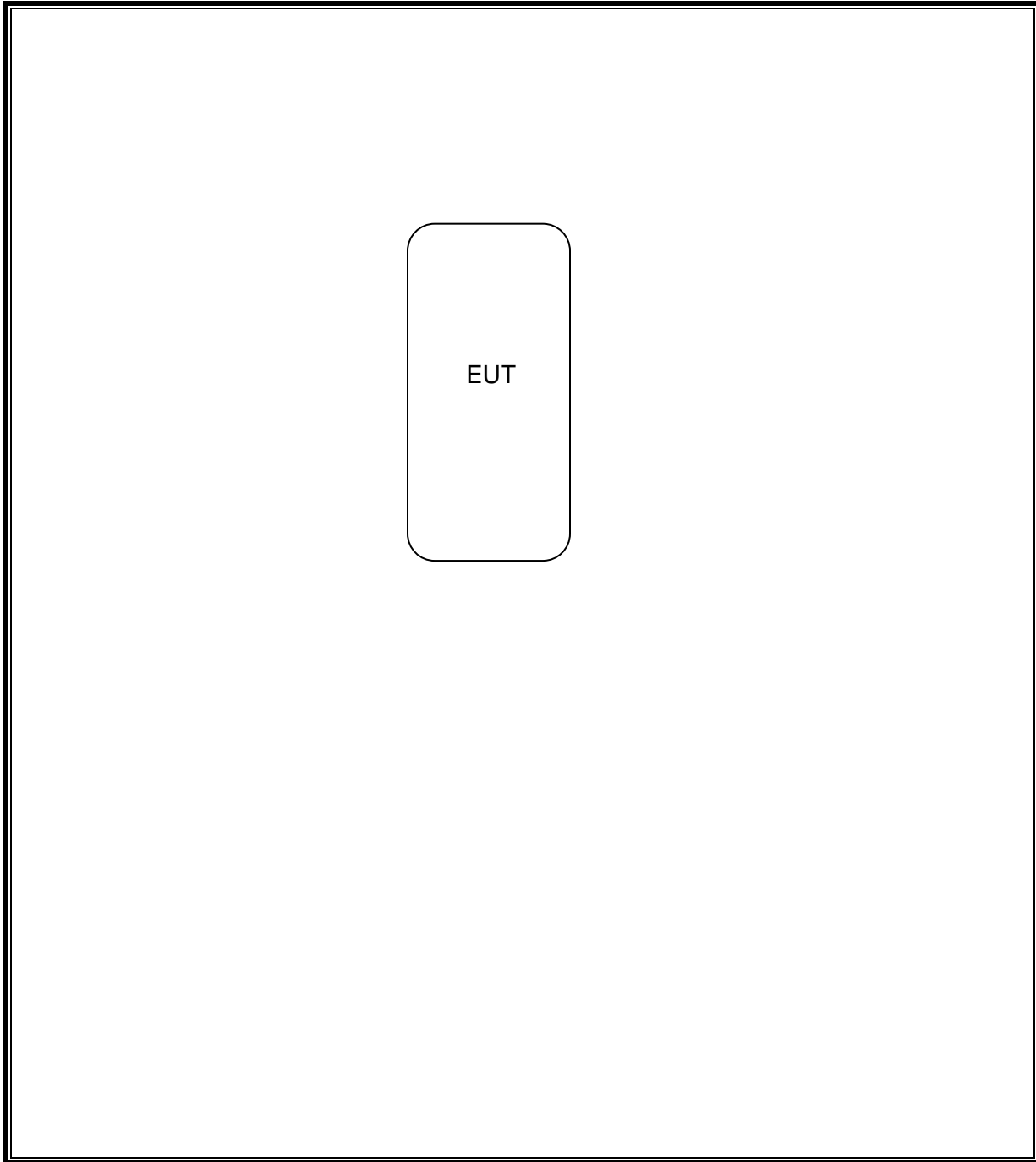
I/O CABLES

None

TEST SETUP

The EUT is a standalone device. Operation is achieved by pressing the buttons.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment Used – Radiated Emissions					
Description	Manufacturer	Model	Identifier	Cal Date	Cal Due Date
30-1000MHz					
EMI Receiver	Rohde & Schwarz	ESIB40	34968	2011-03-01	2012-03-01
Bicon Antenna	Schaffner	VBA6106A	54	2011-04-05	2012-04-05
Log-P Antenna	Schaffner	UPA6109	44067	2011-04-29	2012-04-29
Switch Driver	HP	11713A	ME7A-627	NA	NA
System Controller	Sunol Sciences	SC99V	44396	NA	NA
Camera Controller	Panasonic	WV-CU254	44395	NA	NA
RF Switch Box	UL	1	44398	NA	NA
Measurement Software	UL	Version 9.5	44740	NA	NA
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268	2010-12-07	2012-12-07
Above 1GHz (Band Optimized System)					
Spectrum Analyzer	Agilent	E4446A	72823	2011-07-26	2012-07-26
Horn Antenna (1-2 GHz)	ETS	3161-01	51442	2008-03-28	See * below
Horn Antenna (2-4 GHz)	ETS	3161-02	48107	2007-09-27	See * below
Horn Antenna (4-8 GHz)	ETS	3161-03	48106	2007-09-27	See * below
Signal Path Controller	HP	11713A	50250	NA	NA
Gain Controller	HP	11713A	50251	NA	NA
RF Switch / Preamp Fixture	UL	BOMS1	50249	NA	NA
System Controller	UL	BOMS2	50252	NA	NA
Measurement Software	UL	Version 9.5	44740	NA	NA
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268	2010-12-07	2012-12-07
* - Note: As allowed by the calibration standard ANSI C63.4 Section 4.4.2, standard gain horns need only a one-time calibration. Only if physical damage occurs will the horn antenna require re-calibration.					
* Gain standard horn antennas (sometimes called standard gain horn antennas) need not be calibrated beyond that which is provided by the manufacturer unless they are damaged or deterioration is suspected, or they are used at a distance closer than $2D^2/\lambda$. Gain standard horn antennas have gains that are fixed by their dimensions and dimensional tolerances.					

Test Equipment Used – Occupied Bandwidth/Cease Operation/Duty Cycle					
Description	Manufacturer	Model	Identifier	Cal Date	Cal Due Date
Spectrum Analyzer	Agilent	E4446A	72822	2011-07-12	2012-07-12
Dipole Antenna	EMCO	3121C	3359	2010-12-08	2011-12-08
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268	2010-12-07	2012-12-07

7. ANTENNA PORT TEST RESULTS

7.1. 20 dB AND 99% BW

LIMITS

FCC §15.231 (c)

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.

IC A1.1.3

For the purpose of Section A1.1, the 99% Bandwidth shall be no wider than 0.25% of the center frequency for devices operating between 70-900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.

TEST PROCEDURE

ANSI C63.4

The transmitter output is connected to the spectrum analyzer.

20dB Bandwidth: The RBW is set to 10 KHz. The VBW is set to 300 KHz. The sweep time is coupled. Bandwidth is determined at the points 20 dB down from the modulated carrier.

99% Bandwidth: The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

No non-compliance noted:

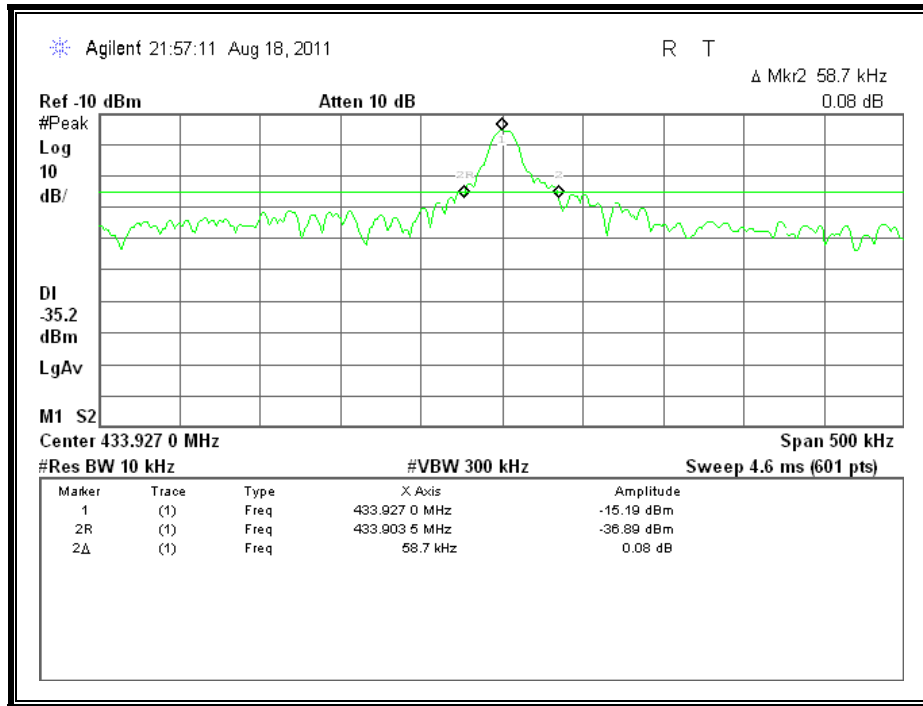
20dB Bandwidth

Frequency (MHz)	20dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
433.92	58.7	1084.8	-1026.1

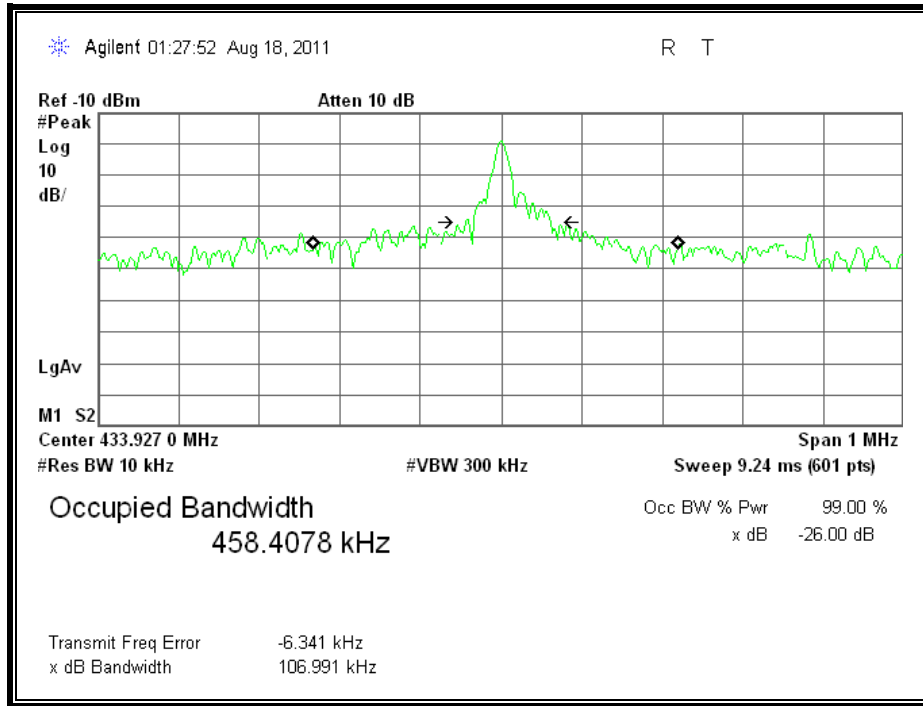
99% Bandwidth

Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
433.92	458.4	1084.8	-626.4

20dB BANDWIDTH



99% BANDWIDTH



7.2. DUTY CYCLE

LIMITS

FCC §15.35 (c)

The measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 1 MHz and the VBW is set to 1 MHz. The sweep time is coupled and the span is set to 0 Hz. The number of pulses is measured and calculated in a 100 ms scan.

CALCULATION

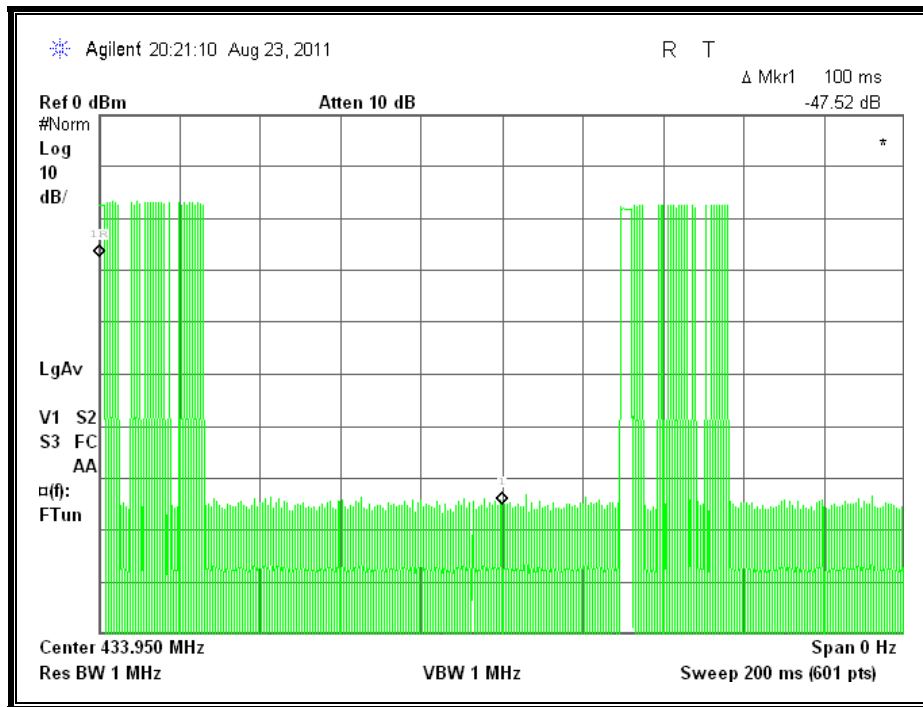
Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle), Where Duty Cycle is (# of long pulses * long pulse width) + (# of short pulses * short pulse width) / 100 or T

RESULTS

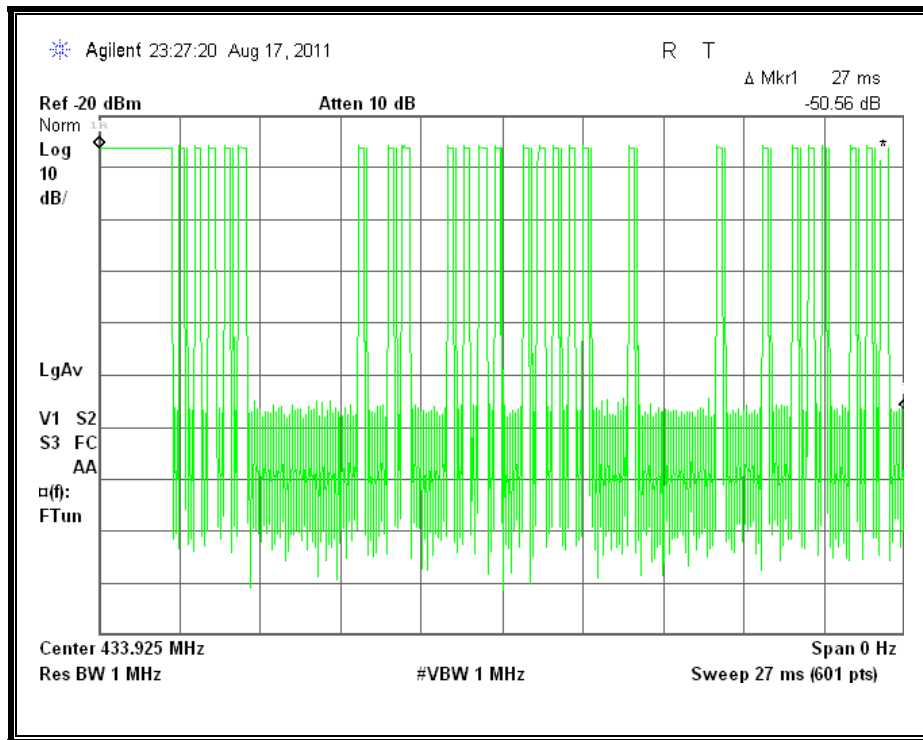
No non-compliance noted:

One Period (ms)	Long Pulse Width (ms)	# of Long Pulses	Short Width (ms)	# of Short Pulses	Duty Cycle	20*Log Duty Cycle (dB)
100	2.5	1	0.23	26	0.086	-21.34

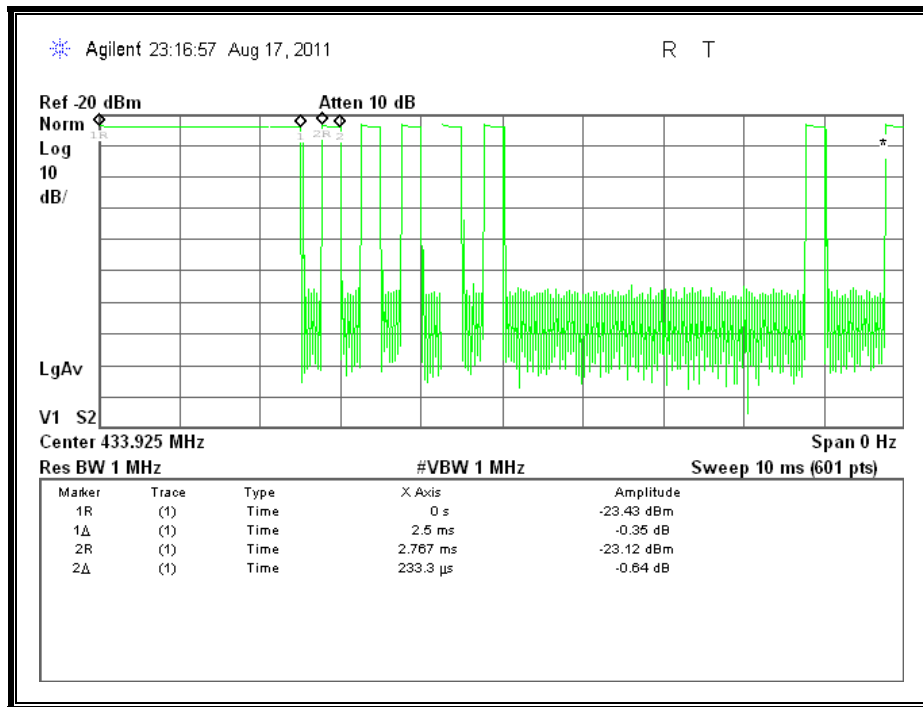
TRANSMISSION IN 200ms PERIOD



ONE TRANSMISSION



LONG & SHORT PULSE WIDTHS



7.3. TRANSMISSION TIME

LIMITS

FCC §15.231 (a) (2)

IC A1.1.1 (b)

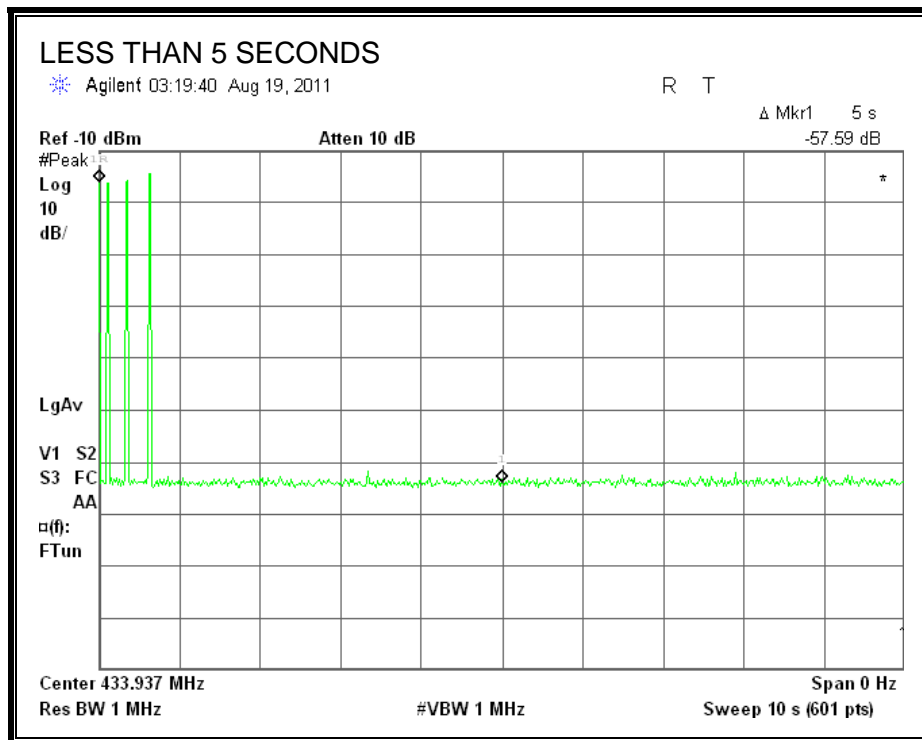
A transmitter activated automatically shall cease transmission within 5 seconds after activation.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 1 MHz and the VBW is set to 1 MHz. The sweep time is set to 10 seconds and the span is set to 0 Hz.

RESULTS

No non-compliance noted:



8. RADIATED EMISSION TEST RESULTS

8.1. TX RADIATED SPURIOUS EMISSION

LIMITS

FCC §15.231 (b)
 IC A1.1.2

In addition to the provisions of § 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 Frequency (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,750 ¹	125 to 375 ¹
174 - 260	3,750	375
260 - 470	3,750 to 12,500 ¹	375 to 1,250 ¹
Above 470	12,500	1,250

¹ Linear interpolation

§15.205 (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 - 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	(²)
13.36 - 13.41			

1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
2 Above 38.6

§15.205 (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.

§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 (microvolts/meter)	Measurement Distance (meters)
30 88	100 **	3
88 216	150 **	3
216 960	200 **	3
Above 960	500	3

** 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.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

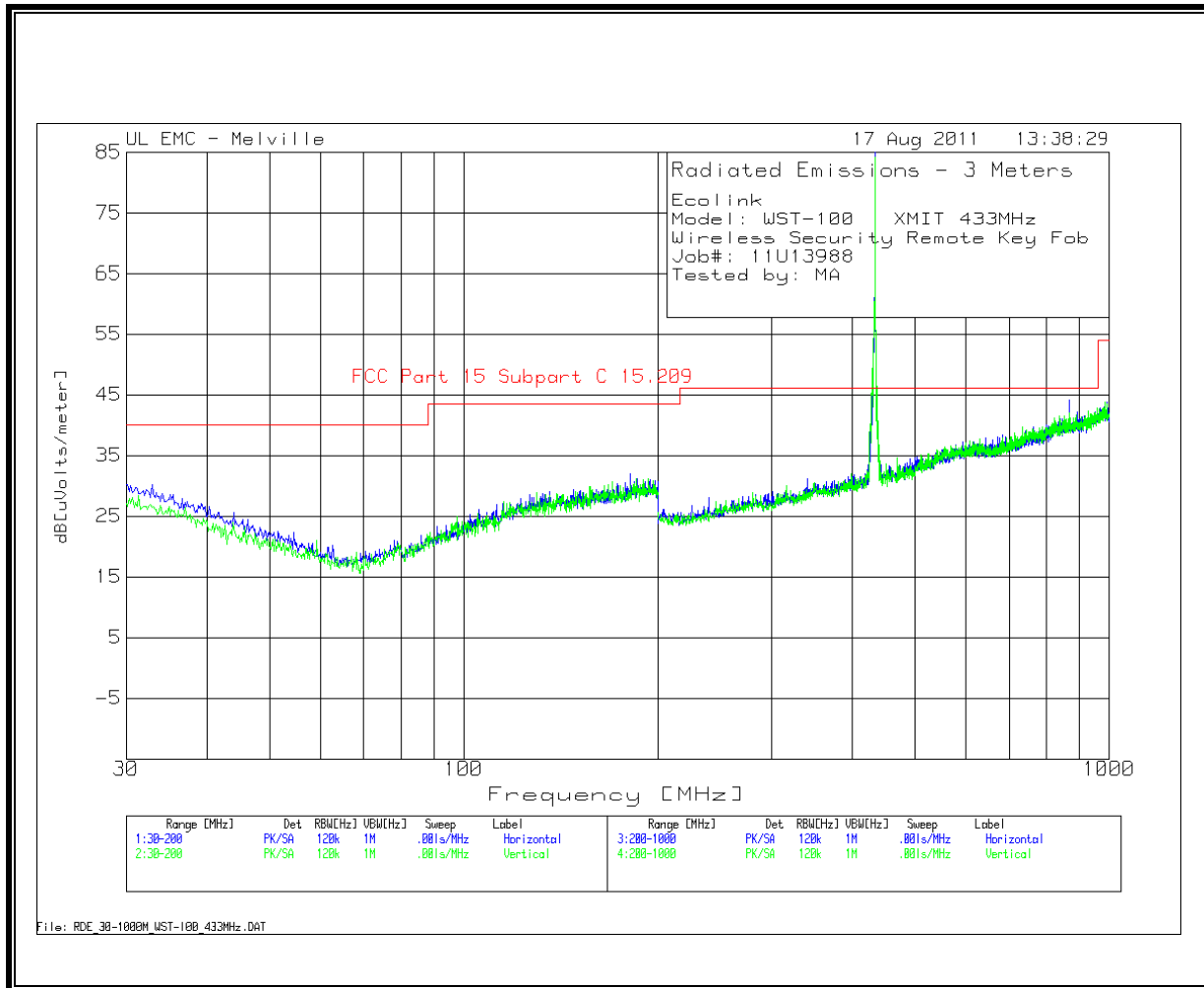
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

RESULTS

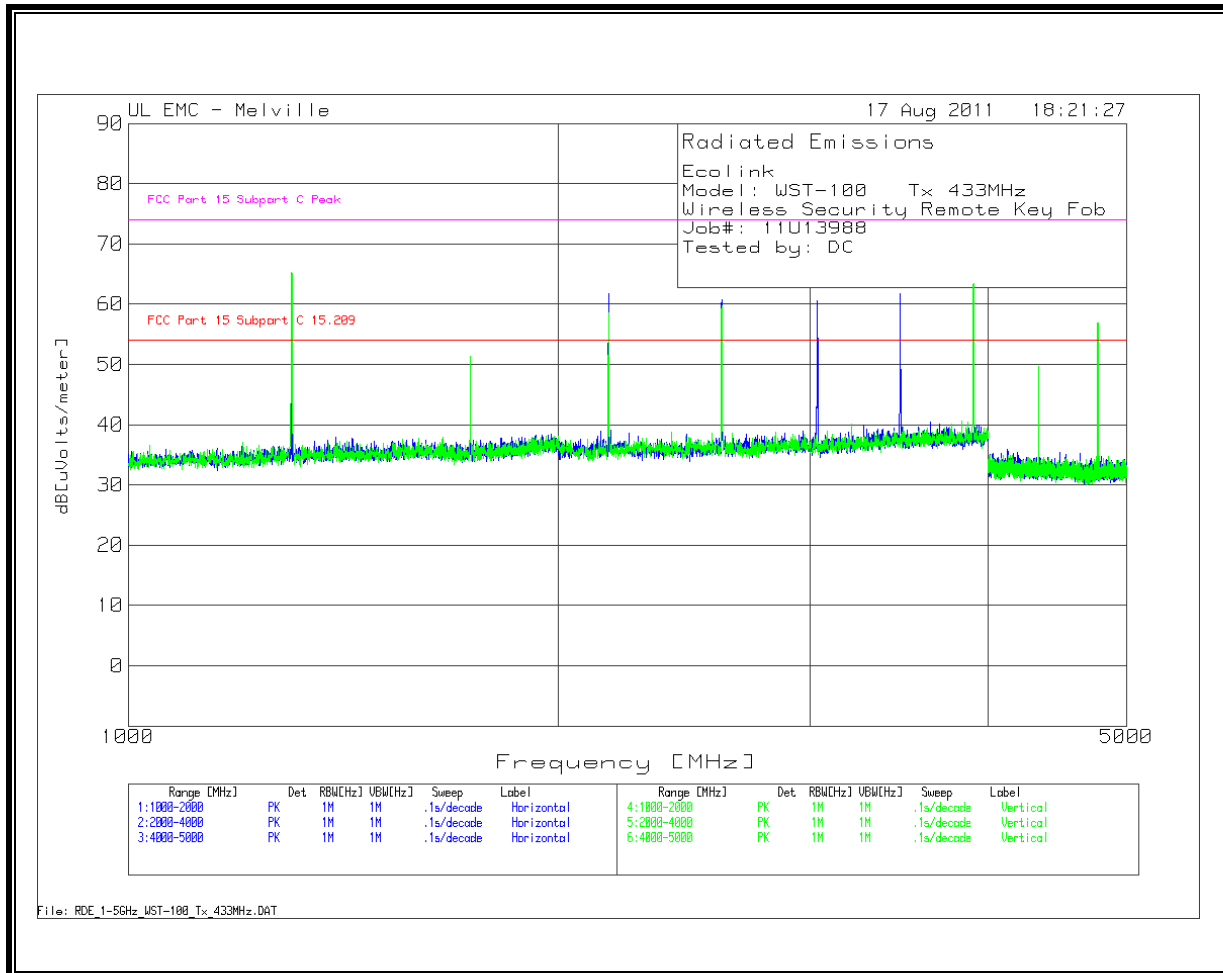
No non-compliance noted:

FUNDAMENTAL, HARMONICS AND TX SPURIOUS EMISSION (30 – 1000 MHz)



Ecolink												
Model: WST-100 XMIT 433MHz												
Wireless Security Remote Key Fob												
Job#: 11U13988												
Tested by: MA												
Horizontal 200 - 1000MHz												
Test	Meter	Detector	LogP 3M Horz 44067 02May12 [dB]	3MLoc 30- 1000MHz 02Feb12 [dB]	dB[uVolts/meter]	DCF [dB]	Corrected Level	FCC Part 15 Subpart C 15.231	Margin	Azimuth [Degs]	Height [cm]	Polarity
433.9163	68.54	PK	17.1	2.3	87.94	-21.34	66.6	80.8	-14.2	360	360	Horz
867.8387	21.76	PK	23.1	3.4	48.26	-21.34	26.92	60.8	-33.88	0	150	Horz
Vertical 200 - 1000MHz												
Test	Meter	Detector	LogP 3M Vert 44067 02May12 [dB]	3MLoc 30- 1000MHz 02Feb12 [dB]	dB[uVolts/meter]	DCF [dB]	Corrected Level	FCC Part 15 Subpart C 15.209	Margin	Azimuth [Degs]	Height [cm]	Polarity
433.9163	73.03	PK	16.6	2.3	91.93	-21.34	70.59	80.8	-10.21	260	150	Vert
867.8292	23.93	PK	23.2	3.4	50.53	-21.34	29.19	60.8	-31.61	100	150	Vert
PK - Peak detector (Maximized)												
QP - Quasi-Peak detector												
LnAv - Linear Average detector												
LgAv - Log Average detector												
Av - Average detector												
CAV - CISPR Average detector												
RMS - RMS detection												
CRMS - CISPR RMS detection												

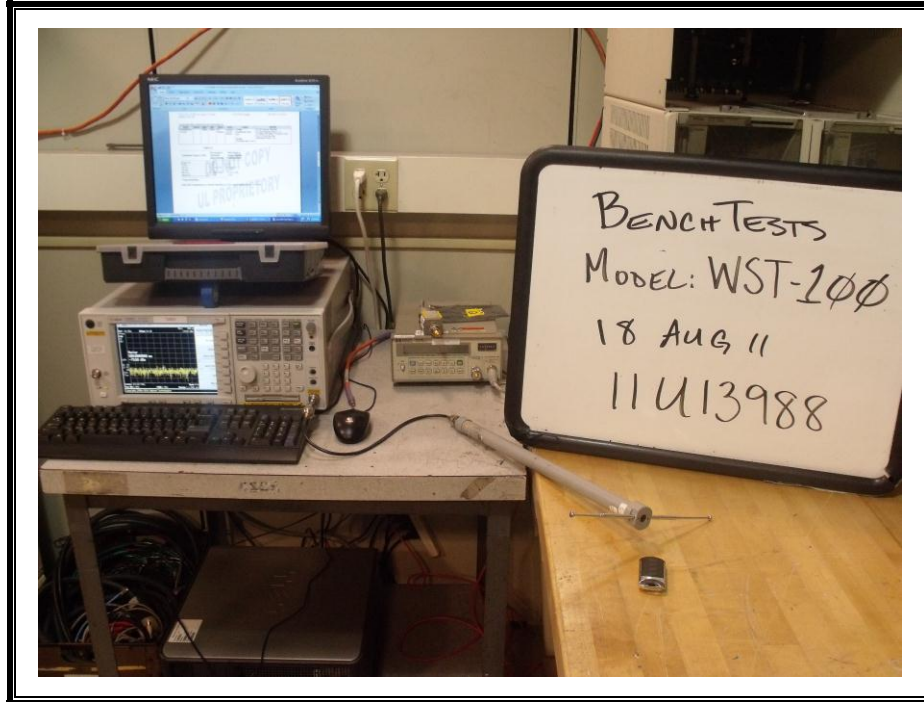
HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 1GHz



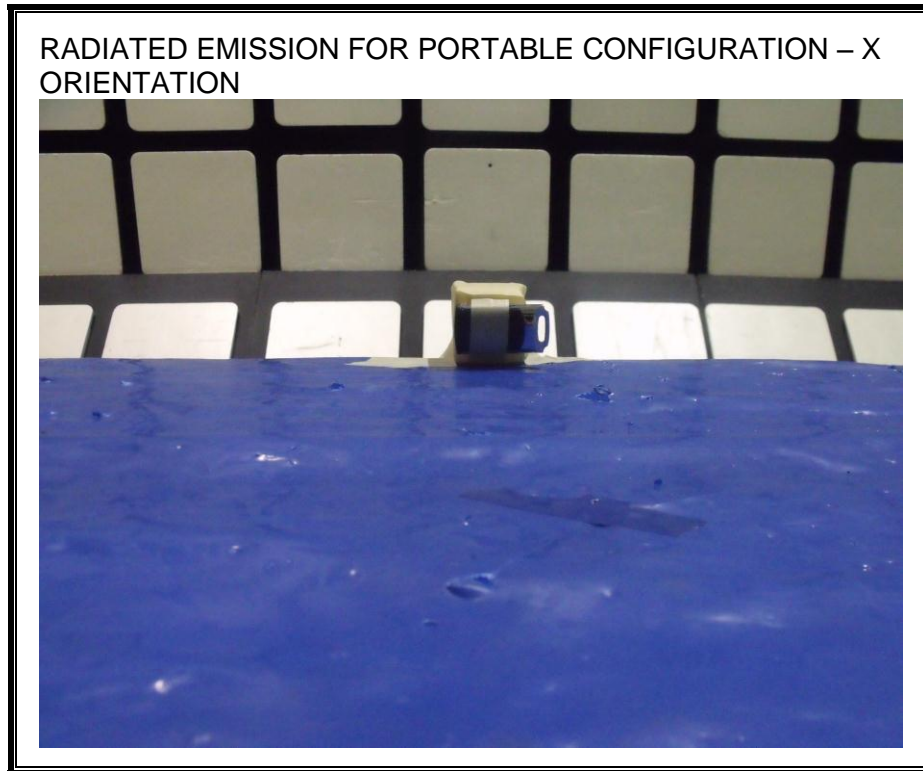
Ecolink														
Model: WST-100 Tx 433MHz														
Wireless Security Remote Key Fob														
Job#: 11U13988														
Tested by: DC														
Horizontal 1000 - 2000MHz														
Test	Meter		51442 1-	BOMS					FCC Part 15		FCC Part 15			
Frequency	Reading	Detector	2GHz [dB]	Factor [dB]	dB[uVolts/meter]	DCF [dB]	Corrected Level	15.209	Margin	Peak	Margin	Azimuth [Degs]	Height [cm]	Polarity
1301.8056	81.51	PK	20.5	-44.35	57.66	-21.34	36.32	54	-17.68	74	-16.34	32	324	Horz
1735.7216	68.98	PK	20.8	-44.16	45.62	-21.34	24.28	54	-29.72	74	-28.38	292	327	Horz
Horizontal 2000 - 4000MHz														
Test	Meter		3161-02_Horz_2	BOMS					FCC Part 15		FCC Part 15			
Frequency	Reading	Detector	7Sept08 [dB]	Factor [dB]	dB[uVolts/meter]	DCF [dB]	Corrected Level	15.209	Margin	Peak	Margin	Azimuth [Degs]	Height [cm]	Polarity
2169.776	84.39	PK	21.4	-43.22	62.57	-21.34	41.23	54	-12.77	74	-11.43	332	347	Horz
2603.6111	83.91	PK	21.3	-42.56	62.65	-21.34	41.31	54	-12.69	74	-11.35	352	213	Horz
3037.5636	83.34	PK	21.6	-41.83	63.11	-21.34	41.77	54	-12.23	74	-10.89	155	284	Horz
3471.713	82.41	PK	22.2	-41.83	62.78	-21.34	41.44	54	-12.56	74	-11.22	138	354	Horz
Horizontal 4000 - 5000MHz														
Test	Meter		3161-03_Horz_2	BOMS					FCC Part 15		FCC Part 15			
Frequency	Reading	Detector	7Sept08 [dB]	Factor [dB]	dB[uVolts/meter]	DCF [dB]	Corrected Level	15.209	Margin	Peak	Margin	Azimuth [Degs]	Height [cm]	Polarity
4339.5826	78.25	PK	27.7	-51.64	54.31	-21.34	32.97	54	-21.03	74	-19.69	17	357	Horz
4773.5895	81.74	PK	27.1	-52.48	56.36	-21.34	35.02	54	-18.98	74	-17.64	123	324	Horz
Vertical 1000 - 2000MHz														
Test	Meter		51442 1-	BOMS					FCC Part 15		FCC Part 15			
Frequency	Reading	Detector	2GHz [dB]	Factor [dB]	dB[uVolts/meter]	DCF [dB]	Corrected Level	15.209	Margin	Peak	Margin	Azimuth [Degs]	Height [cm]	Polarity
1301.6778	90.65	PK	20.5	-44.35	66.8	-21.34	45.46	54	-8.54	74	-7.2	327	210	Vert
1735.6555	79.61	PK	20.8	-44.16	56.25	-21.34	34.91	54	-19.09	74	-17.75	354	153	Vert
Vertical 2000 - 4000MHz														
Test	Meter		3161-02_Vert_2	BOMS					FCC Part 15		FCC Part 15			
Frequency	Reading	Detector	7Sept08 [dB]	Factor [dB]	dB[uVolts/meter]	DCF [dB]	Corrected Level	15.209	Margin	Peak	Margin	Azimuth [Degs]	Height [cm]	Polarity
2169.6722	85.19	PK	21.1	-43.22	63.07	-21.34	41.73	54	-12.27	74	-10.93	239	348	Vert
2603.6084	83.71	PK	21.5	-42.56	62.65	-21.34	41.31	54	-12.69	74	-11.35	43	363	Vert
3905.2632	82.97	PK	22.6	-41.68	63.89	-21.34	42.55	54	-11.45	74	-10.11	325	299	Vert
Vertical 4000 - 5000MHz														
Test	Meter		3161-03_Vert_2	BOMS					FCC Part 15		FCC Part 15			
Frequency	Reading	Detector	7Sept08 [dB]	Factor [dB]	dB[uVolts/meter]	DCF [dB]	Corrected Level	15.209	Margin	Peak	Margin	Azimuth [Degs]	Height [cm]	Polarity
4339.333	80.88	PK	27.8	-51.64	57.04	-21.34	35.7	54	-18.3	74	-16.96	282	387	Vert
4773.0728	86.9	PK	27.2	-52.47	61.63	-21.34	40.29	54	-13.71	74	-12.37	236	304	Vert
NOTE: Uncorrected data compared to the FCC Part 15 Peak limit														
PK - Peak detector (Maximized)														
QP - Quasi-Peak detector														
LnAv - Linear Average detector														
LgAv - Log Average detector														
Av - Average detector														
CAV - CISPR Average detector														
RMS - RMS detection														
CRMS - CISPR RMS detection														

9. SETUP PHOTOS

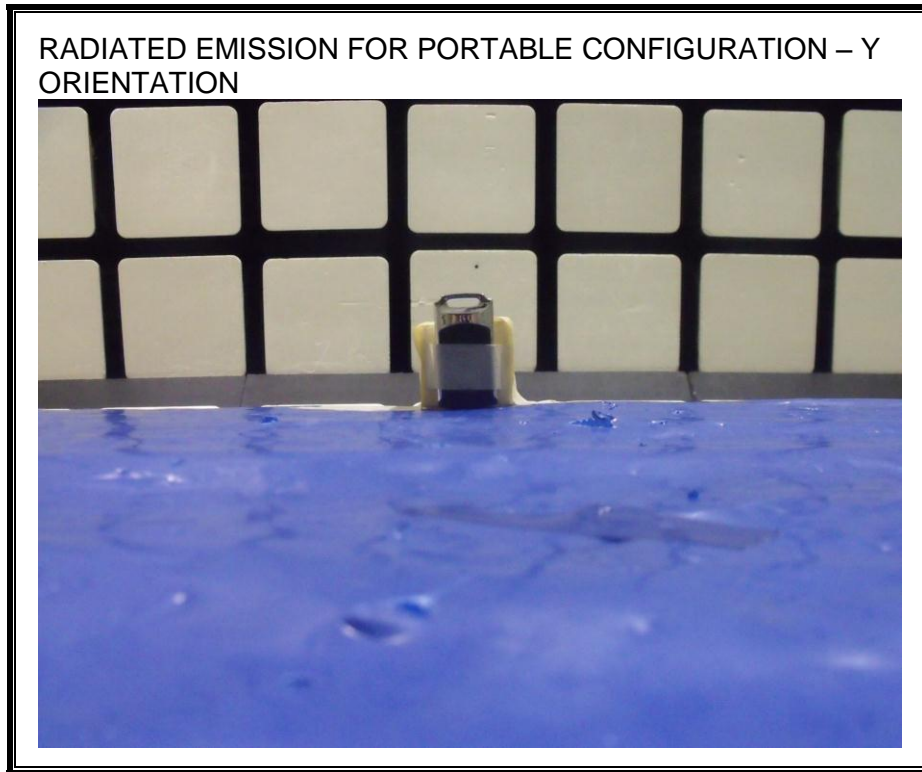
ANTENNA PORT



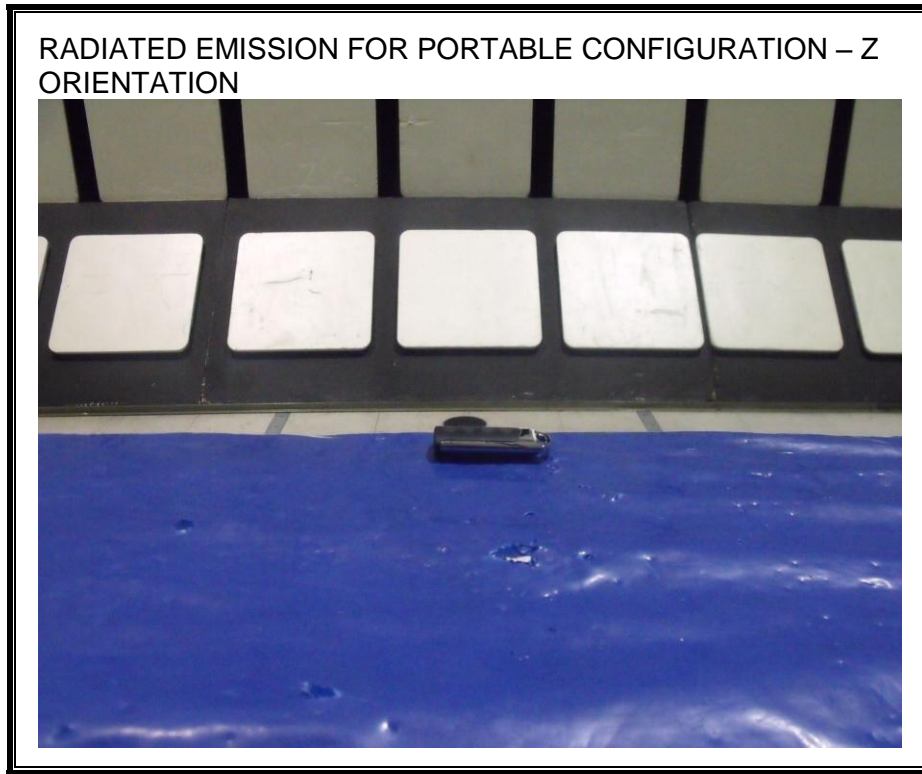
RADIATED EMISSION FOR PORTABLE CONFIGURATION – X ORIENTATION



RADIATED EMISSION FOR PORTABLE CONFIGURATION – Y ORIENTATION

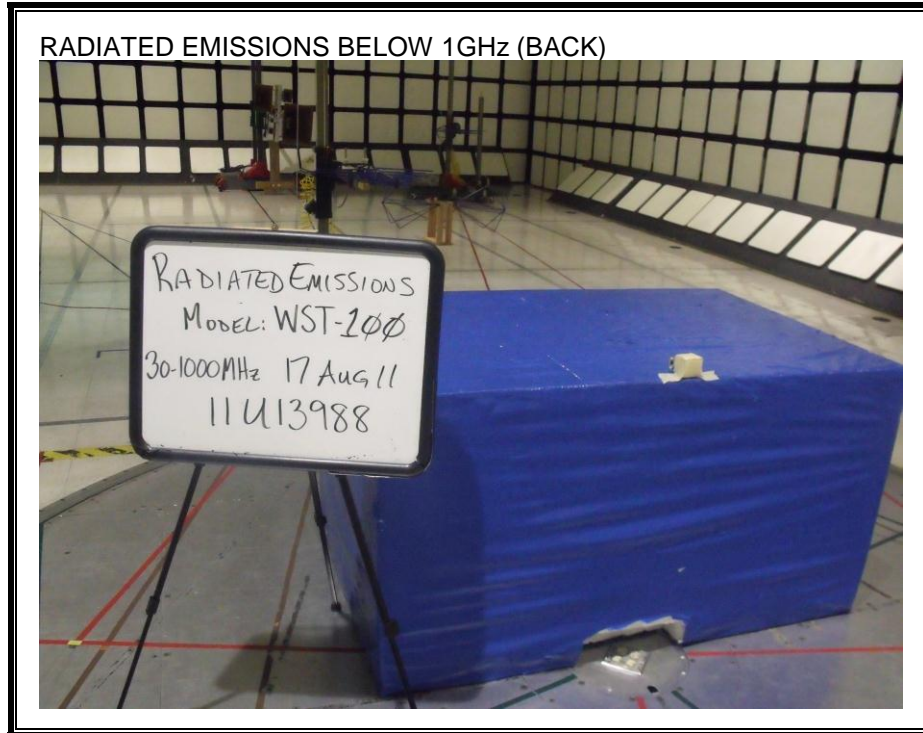


RADIATED EMISSION FOR PORTABLE CONFIGURATION – Z ORIENTATION

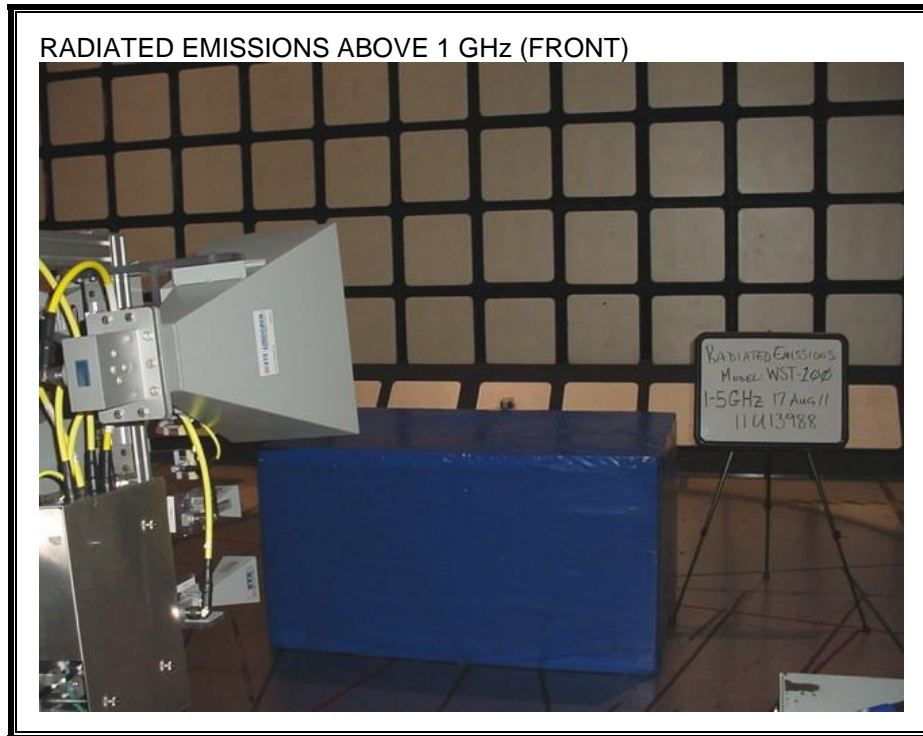


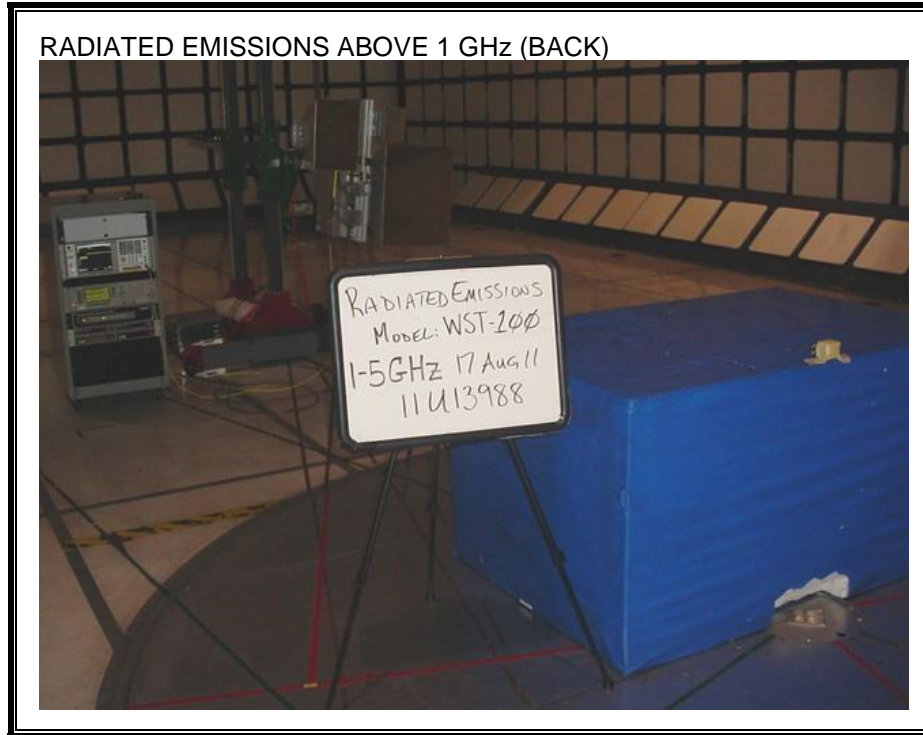
RADIATED EMISSION BELOW 1 GHz





RADIATED EMISSION ABOVE 1 GHz





END OF REPORT