



## TEST AND MEASUREMENT REPORT

For

# **Ecolink Intelligent Technology, Inc.**

2055 Corte Del Nogal, Carlsbad, CA 92011, USA

FCC ID: XQC-WST612 IC: 9863B-WST612

Report Type:
Original Report

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Report Number:
R1502026-231

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**Note**: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by A2LA\* or any agency of the Federal Government.

<sup>\*</sup> This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "\*"

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## **DOCUMENT REVISION HISTORY**

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1502026-231	Initial	2015-02-26

#### 1 General Information

## 1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of *Ecolink Intelligent Technology*, and their product *FCC ID: XQC-WST612*, *IC:* 9863B-WST612, *model number: WST-612* or the "EUT" as referred on this report is a Wireless Flood/Freeze detector that operates on 345 MHz.

### **1.2** Mechanical Description of EUT

The "EUT" measures approximately 6.2 cm (L) x 6.2cm (W) x 1.2cm (H), and weighs approximately 26.5 g.

The test data gathered are from typical production sample, serial number: R1502026-01 provided by BACL.

### 1.3 Objective

This type approval report is prepared on behalf of *Ecolink Intelligent Technology*, in accordance with Part 2, Subpart J and Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules for section 15.205, 15.209 and 15.231, RSS-Gen, Issue 4, and RSS-210, Issue 8.

### 1.4 Related Submittal(s)/Grant(s)

No Related Submittals

#### 1.5 Test Methodology

All measurements contained in this report were conducted in accordance with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All tests were performed at Bay Area Compliance Laboratories Corp.

#### 1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR16-4-2:2011, The Treatment of Uncertainty in EMC Measurements, the values ranging from  $\pm 2.0$  dB for Conducted Emissions tests and  $\pm 4.0$  dB for Radiated Emissions tests are the most accurate estimates pertaining to uncertainty of EMC measurements at BACL Corp.

#### 1.7 Test Facility

Bay area compliance Laboratories Corp. (BACL) is:

- 1- An independent Commercial Test Laboratory accredited to **ISO 17025: 2005** by **A2LA**, in the fields of: Electromagnetic Compatibility & Telecommunications covering Emissions, Immunity, Radio, RF Exposure, Safety and Telecom. This includes NEBS (Network Equipment Building System), Wireless RF, Telecommunications Terminal Equipment (TTE); Network Equipment; Information Technology Equipment (ITE); Medical Electrical Equipment; Industrial, Commercial, and Medical Test Equipment; Professional Audio and Video Equipment; Electronic (Digital) Products; Industrial and Scientific Instruments; Cabled Distribution Systems and Energy Efficiency Lighting.
- 2- An ENERGY STAR Recognized Laboratory, for the LM80 Testing, a wide variety of Luminares and Computers.
- 3- A NIST Designated Phase-I and Phase-II CAB including: ACMA (Australian Communication and Media Authority), BSMI (Bureau of Standards, Metrology and Inspection of Taiwan), IDA (Infocomm Development Authority of Singapore), IC(Industry Canada), Korea (Ministry of Communications Radio Research Laboratory), NCC (Formerly DGT; Directorate General of Telecommunication of Chinese Taipei) OFTA (Office of the Telecommunications Authority of Hong Kong), Vietnam, VCCI Voluntary Control Council for Interference of Japan and a designated EU CAB (Conformity Assessment Body) (Notified Body) for the EMC and R&TTE Directives.
- 4- A Product Certification Body accredited to **ISO Guide 65: 1996** by **A2LA** to certify:
- 1- Unlicensed, Licensed radio frequency devices and Telephone Terminal Equipment for the FCC. Scope A1, A2, A3, A4, B1, B2, B3, B4 & C.
- 2. Radio Standards Specifications (RSS) in the Category I Equipment Standards List and All Broadcasting Technical Standards (BETS) in Category I Equipment Standards List for Industry Canada.
- 3. Radio Communication Equipment for Singapore.
- 4. Radio Equipment Specifications, GMDSS Marine Radio Equipment Specifications, and Fixed Network Equipment Specifications for Hong Kong.
- 5. Japan MIC Telecommunication Business Law (A1, A2) and Radio Law (B1, B2 and B3).
- 6. Audio/Video, Battery Charging Systems, Computers, Displays, Enterprise Servers, Imaging Equipment, Set-Top Boxes, Telephony, Televisions, Ceiling Fans, CFLs (Including GU24s), Decorative Light Strings, Integral LED Lamps, Luminaires, Residential Ventilating Fans.

The test site used by BACL Corp. to collect radiated and conducted emissions measurement data is located at its facility in Sunnyvale, California, USA.

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997, and Article 8 of the VCCI regulations on December 25, 1997. The test site also complies with the test methods and procedures set forth in CISPR 22:2008 §10.4 for measurements below 1 GHz and §10.6 for measurements above 1 GHz as well as ANSI C63.4-2009, ANSI C63.4-2009, TIA/EIA-603 & CISPR 24:2010.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: A-0027. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is an American Association for Laboratory Accreditation (A2LA) accredited laboratory (Lab Code 3297-02). The current scope of accreditations can be found at

http://www.a2la.org/scopepdf/3297-02.pdf?CFID=1132286&CFTOKEN=e42a3240dac3f6ba-6DE17DCB-1851-9E57-477422F667031258&jsessionid=8430d44f1f47cf2996124343c704b367816b

## 2 System Test Configuration

#### 2.1 Justification

The whole testing uses the procedures as specified in ANSI C63.10-2009.

EUT was connected and operational as in typical operating configuration, transmitting full power.

#### 2.2 EUT Exercise Software

The EUT was in normal operation mode during the testing.

## 2.3 Equipment Modifications

No modifications were made to the EUT.

## 2.4 Local Support Equipment

N/A

## 2.5 EUT Internal Configuration Details

Manufacturer Description		Model	Serial Number
Ecolink	PCB	A05	-

## 2.6 External I/O Cabling List and Details

There was no external I/O cabling used with the EUT.

## 2.7 Power Supply List and Details

N/A

## **3** Summary of Test Results

Results reported relate only to the product tested.

FCC & IC Rules	Description of Test	Result
FCC §15.203 IC RSS-Gen §8.3	Antenna Requirement	Compliant
FCC §15.231(a)(2) IC RSS-210 §A1.1.1(b)	Deactivation Time	Compliant
FCC §15.209, §15.231(b) IC RSS-210 §A1.1	Radiated Emissions	Compliant
FCC §15.207(a) IC RSS-Gen §8.8	AC Line Conducted Emission	N/A <sup>1</sup>
FCC §15.231(c) IC RSS-210 §A1.1.3	Emission Bandwidth	Compliant

 $<sup>^{1}</sup>$  EUT is battery powered.

## 4 FCC §15.203 & IC RSS-Gen §8.3 – Antenna Requirements

## 4.1 Applicable Standard

According to FCC §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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 the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

According to IC RSS-Gen §8.3: Transmitter Antenna for License-Exempt Radio Apparatus

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the license-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

License-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotopically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the license-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of license-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. 9 When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

User manuals for transmitters equipped with detachable antennas shall also contain the following notice in a conspicuous location:

This radio transmitter (identify the device by certification number) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types approved for use with the transmitter, indicating the maximum permissible antenna gain (in dBi).

#### 4.2 Antenna List

This non-detachable antenna is integrated on PCB board. The antenna gain is -15 dBi. It complies with the antenna requirement. Please refer to the internal photos.

## 5 FCC §15.231(a) & IC RSS-210 §A1.1.1(b) – Deactivation Time

## 5.1 Applicable Standards

According to FCC §15.231 (a) (2) and IC RSS-210 A1.1.1 (b), A transmitter activated automatically shall cease transmission within 5 seconds after activation.

#### **5.2** Measurement Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument via radiated Biconi-Log antenna. Then set it to any one convenient frequency within its operating range.
- 3. Set span to zero and record.
- 4. Repeat above procedures until all frequencies measured were complete.

## 5.3 Test Equipment List and Details

Manufacturers	Description	Model No.	Serial No.	Calibration Dates	Calibration Interval
Agilent	Spectrum Analyzer	E4440A	US 422221851	2014-08-26	1 year
Sunol Science	Combination Antenna	ЈВ3	A020106-3	2014-07-24	1 year
Sunol Science	System Controller	SC99V	122303-1	N/R	N/R
Hewlett Packard	Pre-amplifier	8447D	2944A06639	2014-03-20	1 year

Statement of Traceability: BACL Corp. attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

#### 5.4 Test Environmental Conditions

Temperature:	21 ° C
Relative Humidity:	59 %
ATM Pressure:	101.1 kPa

*The testing was performed by Jerry Tong on 2015-02-06 at 5m chamber 3.* 

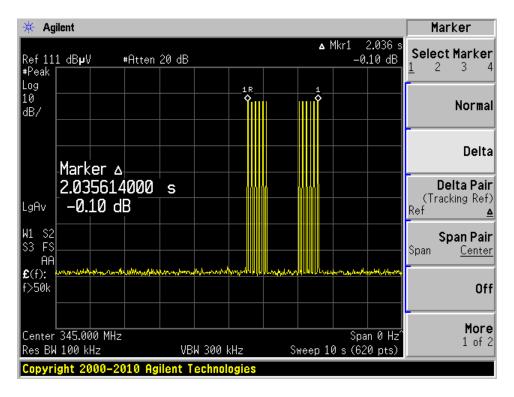
#### 5.5 Test Results

Please refer to the following plots for detailed test results

Deactivation time (s)	n time Limit (s)	
2.036	< 5	Compliant

Note: The plot shows two sets of six OOK data packets.

#### **Deactivation Time**



## 6 FCC §15.209, §15.231 (b) & IC RSS-210 §A1.1 – Radiated Emissions

#### **6.1** Applicable Standards

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz.

As per FCC §15.231(b): 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 (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	11,250 to 3,750	1125 to 375
174-260	3,750	375
260-470	13,750 to 12,500	1375 to 1,250
Above 470	12,500	1,250

<sup>&</sup>lt;sup>1</sup>Linear interpolations.

Pre IC RSS-210 §A1.1,

Fundamental Frequency (MHz), excluding restricted band	Field Strength of the Fundamental <sup>(Note 1)</sup>	Field Strength of Unwanted Emissions <sup>(Note 1)</sup>
frequencies of RSS-Gen	(microvolts/m at 3 metres)	(microvolts/m at 3 metres)
40.66-40.70	See Section A2.7	
70-130	1,250	125
130-174	1,250 to 3,750*	125 to 375
174-260 (Note 2)	3,750	375
260-470 <sup>(Note 2)</sup>	3,750 to 12,500*	375 to 1,250
Above 470	12,500	1,250

**Note 1:** Limits on the field strength of emissions, as shown in this table, are based on the average value of the measured emissions. As an alternative, compliance with the limits in this table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector.

For 130-174 MHz: FS (microvolts/m) = (56.82 x F)-6136 For 260-470 MHz: FS (microvolts/m) = (41.67 x F)-7083

<sup>\*</sup> Linear interpolation with frequency F in MHz:

## 6.2 Test Setup

The radiated emissions tests were performed using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC Part 15.231 and IC RSS-210 §A1.1.

The spacing between the peripherals was 10 centimeters.

#### **6.3** Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meters away from the testing antenna, which is varied from 1-4 meters, and the EUT is placed on a turntable, which is 0.8 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

The spectrum analyzer or receiver is set as:

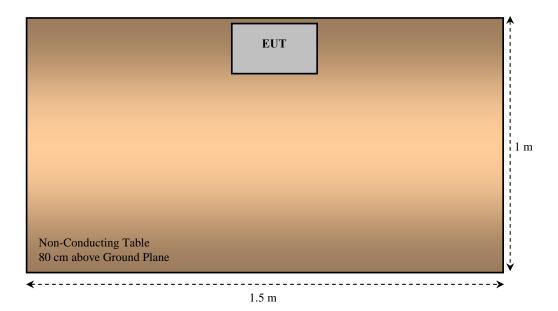
Below 1000 MHz:

$$RBW = 100 \text{ kHz}$$
,  $VBW = 300 \text{ kHz}$ ,  $Sweep = Auto$ 

Above 1000 MHz:

$$RBW = 1MHz$$
,  $VBW = 1MHz$ ,  $Sweep = Auto$ 

## 6.4 Test Setup Block Diagram



### 6.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude (CA) is calculated by adding the Antenna Factor (AF), the Cable Loss (CL), the Attenuator Factor (Atten) and subtracting the Amplifier Gain (Ga) to the indicated Amplitude (Ai) reading. The basic equation is as follows:

$$CA = Ai + AF + CL + Atten - Ga$$

For example, the Corrected Amplitude (CA) of 40.3 dBuV/m = indicated Amplitude reading (Ai) 32.5 dBuV + Antenna Factor (AF) 23.5dB + Cable Loss (CL) 3.7 dB + Attenuator (Atten) 10 dB - Amplifier Gain (Ga) 29.4 dB

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

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

Margin (dB) = Corrected Amplitude (dBuV/m) - Limit (dBuV/m)

## 6.6 Test Equipment List and Details

Manufacturers	Descriptions	Model No.	Serial No.	Calibration Dates	Calibration Interval
Agilent	Spectrum Analyzer	E4440A	US42221851	2014-08-26	1 Year
Eaton	Antenna, Horn	96001	2617	2014-11-18	1 Year
Hewlett Packard	Pre-amplifier	8447D	2944A06639	2014-03-20	1 Year
HP/ Agilant	Pre-amplifier	8449B	3008A0113	2014-03-10	1 Year
Sunol Science	Combination Antenna	ЈВ3	A020106-2	2014-07-24	1 Year
Sunol Science	System Controller	SC99V	122303-1	N/R	N/R

**Statement of Traceability:** BACL Corp. attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

#### 6.7 Test Environmental Conditions

Temperature:	23 °C
Relative Humidity:	56 %
ATM Pressure:	101.3 kPa

The testing was performed by Jerry Tong on 2015-02-04 at 5m chamber 3.

## 6.8 Summary of Test Results

According to the data hereinafter, the EUT <u>complied with the limits presented in FCC Title 47, Part 15.231 and IC RSS-210 §A1.1</u>, and had the worst margin of:

Margin	Frequency	Polarization	Comments
(dB)	(MHz)	(Horizontal/Vertical)	
-0.79	345	Horizontal	Peak, Fund.

#### 6.9 Radiated Emissions Results

Fundamental = 345 MHz

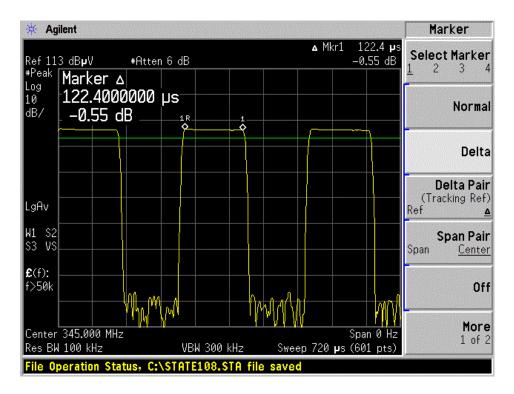
Freq.	q. Reading Azimuth		Tes			Cable Am	Pre- Amp. Cord.	FCC Part 15.231(b) IC RSS-210 §A1.1			
(MHz)	(dBuV)	Degree	Height (cm)	Polar (H/V)	Factor (dB/m)	Loss (dB)	Gain (dB)	Amp. (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Comment
345	80.97	239	105	V	15.2	0.28	22.76	73.69	97.26	-23.57	Peak/Fund.
345	103.45	61	100	Н	15.2	0.28	22.76	96.47	97.26	-0.79	Peak/Fund.
690	42.06	307	100	V	20.5	0.28	22.98	39.86	77.26	-37.4	Peak/Harm
690	56.01	107	100	Н	20.5	0.28	22.98	53.81	77.26	-23.45	Peak/Harm
1035	57.22	123	100	V	24.605	2.17	33.171	50.824	74	-23.176	Peak/Spur
1035	61.79	352	100	Н	24.649	2.17	33.171	55.438	74	-18.562	Peak/Spur
1380	53.63	273	100	V	26.131	2.33	32.94	49.151	74	-24.849	Peak/Spur
1380	56.2	59	100	Н	25.913	2.33	32.94	51.503	74	-22.497	Peak/Spur
1725	67.38	229	100	V	25.722	2.59	33.47	62.222	77.26	-15.038	Peak/Harm
1725	76.33	44	100	Н	25.828	2.59	33.47	71.278	77.26	-5.982	Peak/Harm
2070	73.73	251	100	V	27.883	2.79	33.36	71.043	77.26	-6.217	Peak/Harm
2070	76.18	318	100	Н	27.742	2.79	33.36	73.352	77.26	-3.908	Peak/Harm
2415	73.72	27	100	V	28.383	2.86	33.21	71.753	77.26	-5.507	Peak/Harm
2415	78.39	332	100	Н	28.417	2.86	33.21	76.457	77.26	-0.803	Peak/Harm
2760	67.22	229	100	V	28.865	3.18	33.4	65.865	74	-8.135	Peak/Spur
2760	67	354	100	Н	28.854	3.18	33.4	65.634	74	-8.366	Peak/Spur
3105	71.92	15	100	V	30.582	3.31	34.59	71.222	77.26	-6.038	Peak/Harm
3105	77.03	62	100	Н	30.615	3.31	34.59	76.365	77.26	-0.895	Peak/Harm
3450	68.82	55	100	V	31.351	3.42	35.51	68.081	77.26	-9.179	Peak/Harm
3450	69.22	102	100	Н	31.418	3.42	35.51	68.548	77.26	-8.712	Peak/Harm

	Field Strength of Average Emission							
Freq.	Peak Measurement	Polar	Duty Cycle	Corrected Amplitude	I	FCC Part 15.231(b) IC RSS-210 §A1.1		
(MHz)	at 3m (dBuV/m)	(H/V)	Correlation Factor(dB)	(dBµV/m)	Limit (dBuV/m)	Margin (dB)	Comment	
345	73.69	V	-22.05	51.64	77.26	-25.62	Ave/Fund.	
345	96.17	Н	-22.05	74.12	77.26	-3.14	Ave/Fund.	
690	39.86	V	-22.05	17.81	57.26	-39.45	Ave/Harm.	
690	53.81	Н	-22.05	31.76	57.26	-25.5	Ave/Harm.	
1035	50.824	V	-22.05	28.774	54	-25.226	Ave/Spur.	
1035	55.438	Н	-22.05	33.388	54	-20.612	Ave/Spur.	
1380	49.151	V	-22.05	27.101	54	-26.899	Ave/Spur.	
1380	51.503	Н	-22.05	29.453	54	-24.547	Ave/Spur.	
1725	62.222	V	-22.05	40.172	57.26	-17.088	Ave/Harm.	
1725	71.278	Н	-22.05	49.228	57.26	-8.032	Ave/Harm.	
2070	71.043	V	-22.05	48.993	57.26	-8.267	Ave/Harm.	
2070	73.352	Н	-22.05	51.302	57.26	-5.958	Ave/Harm.	
2415	71.753	V	-22.05	49.703	57.26	-7.557	Ave/Harm.	
2415	76.457	Н	-22.05	54.407	57.26	-2.853	Ave/Harm.	
2760	65.865	V	-22.05	43.815	54	-10.185	Ave/Spur.	
2760	65.634	Н	-22.05	43.584	54	-10.416	Ave/Spur.	
3105	71.222	V	-22.05	49.172	57.26	-8.088	Ave/Harm.	
3105	76.365	Н	-22.05	54.315	57.26	-2.945	Ave/Harm.	
3450	68.081	V	-22.05	46.031	57.26	-11.229	Ave/Harm.	
3450	68.548	Н	-22.05	46.498	57.26	-10.762	Ave/Harm.	

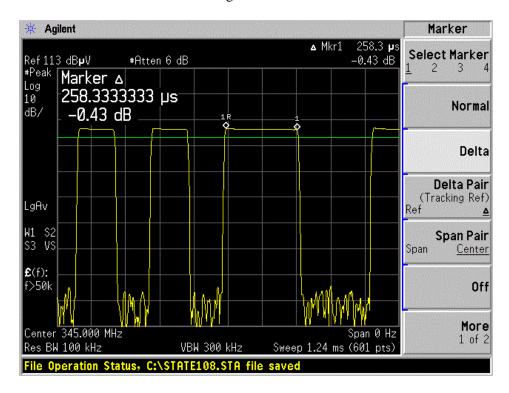
## Duty Cycle Correction Factor Calculation:

One Period (ms)	Long Pulse Width (ms)	# of Long Pulse	Short Pulse Width (ms)	# of Short Pulse	Duty Cycle	Duty Cycle (dB)
100	0.2583	14	0.1224	35	0.079	-22.05

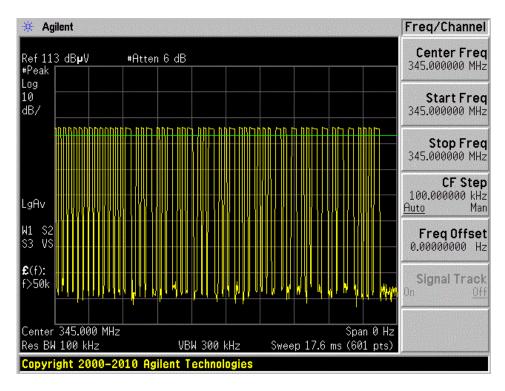
#### Short Pulse Width



#### Long Pulse Width



#### Number of Pulses



## 7 FCC §15.231 (c) & IC RSS-210 §A1.1.3 - Emission Bandwidth

#### 7.1 Applicable Standards

FCC §15.231(c)

(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 RSS-210 §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.

#### 7.2 Measurement Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument via radiated horn antenna. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emissions bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

#### 7.3 Test Equipment List and Details

Manufacturers	Description	Model No.	Serial No.	Calibration Dates	Calibration Interval
Agilent	Spectrum Analyzer	E4440A	US42221851	2014-08-26	1 year
Sunol Science	Combination Antenna	JB3	A020106-2	2014-07-24	1 year

Statement of Traceability: BACL Corp. attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

#### 7.4 Test Environmental Conditions

Temperature:	21 °C	
Relative Humidity:	59 %	
ATM Pressure:	101.1 kPa	

*The testing was performed by Jerry Tong on 2015-02-04 at 5 meter chamber 3.* 

#### 7.5 Test Result

Please refer to the following plots for detailed test result.

Frequency	20 dB Emission Bandwidth (kHz)	Limit (kHz)	Result
345	38.708	862.5	Compliant

Note: Limit = 345 MHz \*0.25% = 826.5 kHz

#### **Emission Bandwidth**

