

TEST REPORT

Report Number.: 13198303-E1V2

Applicant: ECOLINK INTELLIGENT TECHNOLOGY, INC.

2055 CORTE DEL NOGAL CARLSBAD, CA, 92011, U.S.A

FCC ID : XQC-CS502

ISED: 9863B-CS502

Model Number : CS-502

EUT Description: Temperature Sensor

Test Standard(s): FCC 47 CFR PART 15 SUBPART C

INDUSTRY CANADA RSS 210 ISSUE 9 INDUSTRY CANADA RSS-GEN ISSUE 5

Date Of Issue:

February 25, 2020

Prepared by:

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REPORT NO: 13198303-E1V2 FCC ID: XQC-CS502

DATE: February 25, 2020 ISED: 9863B-CS502

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	02/06/2020	Initial Issue	-
V2	02/25/2020	Sec. 5.5: Updated	Kenneth Mak

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: ECOLINK INTELLIGENT TECHNOLOGY, INC.

2055 CORTE DEL NOGAL CARLSBAD, CA, 92011, U.S.A

EUT DESCRIPTION: Temperature Sensor

MODEL: CS-502

SERIAL NUMBER: 01 and 02

DATE TESTED: JANUARY 15 to 21, 2020

APPLICABLE STANDARDS STANDARD TEST RESULTS FCC PART 15 SUBPART C Pass INDUSTRY CANADA RSS-210 ISSUE 9 ANNEX A Pass INDUSTRY CANADA RSS-GEN ISSUE 5 Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services 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 the U.S. government.

Approved & Released For

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CONSUMER TECHNOLOGY DIVISION

Project Engineer

UL Verification Services Inc.

with (Mak

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15, KDB 414788 D01 Radiated Test Site v01r01,RSS-GEN Issue 5, and RSS-210 Issue 9.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, and 47658 Kato Road, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street	47658 Kato Rd
Chamber A	Chamber D	Chamber I
Chamber B	Chamber E	Chamber J
Chamber C	Chamber F	Chamber K
	Chamber G	Chamber L
	Chamber H	

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers above are covered under Industry Canada company address and respective code: 2324A.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0

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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB - 26.9 dB = 28.9 dBuV/m

4.3. MEASUREMENT UNCERTAINTY

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

Parameter	Uncertainty
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.52 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	4.88 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.24 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.37 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.17 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a battery powered wireless transmitter for home automation/security application.

5.2. MAXIMUM FUNDAMENTAL FIELD STRENGTH

The transmitter has peak fundamental field strengths as follows:

Frequency	Mode	Field Strength	Field Strength
Range		Peak	Average
(MHz)		(dBuV/m)	(dBuV/m)
345	Normal	95.48	75.82

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a printed PCB loop antenna using copper wire, with a maximum peak gain of -15dBi.

5.4. SOFTWARE AND FIRMWARE

The typical factory firmware installed in the EUT during testing was ESW1126-01-D01 and ESW1126_Constant_TX.

5.5. WORST-CASE CONFIGURATION AND MODE

The EUT was investigated in each of its three orthogonal axes. All radiated testing was performed in the worse-case axis, which was found to be the "X-axis". See photos for details.

Standalone configuration and EUT with external accessory configuration were both verified and found that the worst-case configuration is standalone. The presented data in this report is for standalone configuration.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

NONE

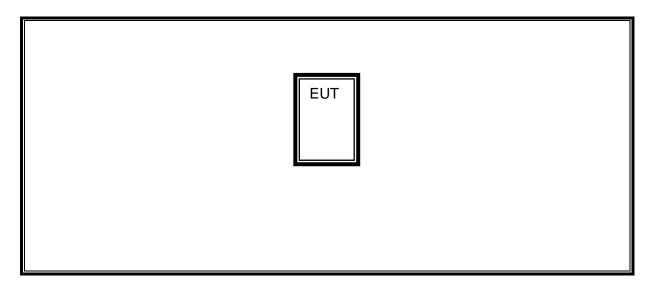
I/O CABLES

NONE

TEST SETUP

The EUT was tested as a standalone device.

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 LIST					
Description	Manufacturer	Model	Asset	Cal Due	
_	SONOMA				
Amplifier, 9KHz to 1GHz, 32dB	INSTRUMENT	310	PRE0180175	5/29/2020	
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T862	6/5/2020	
		AMF-4D-			
Amplifier 1-8GHz 30dB gain	L3 Narda	01000800-30-29P	167494	8/24/2020	
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	PRE0179376	2/14/2020	
Antenna, Broadband Hybrid, 30MHz to	Sunol Sciences				
3GHz	Corp.	JB3	PRE0184052	11/12/2020	
	Agilent (Keysight)				
Spectrum Analyzer, PXA, 3Hz to 44GHz	Technologies	N9030A	T917	01/24/2020	
	ELECTRO				
Antenna, Passive Loop 30Hz - 1MHz	METRICS	EM-6871	PRE0179466	05/31/2020	
	ELECTRO				
Antenna, Passive Loop 100KHz - 30MHz	METRICS	EM-6872	PRE0179468	05/31/2020	
UL AUTOMATION SOFTWARE					
Radiated Software	UL	UL EMC	Ver 9.5, Sep 24, 2	2019	

NOTE: *testing was completed before equipment calibration expiration date.

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 900MHz. 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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The 99% bandwidth of monetarily operated devices shall be less or equal to 0.25% of the center frequency for devices operating between 70MHz and 900MHz. For devices operating above 900MHz, the 99% bandwidth shall be less or equal to 0.5% of the center frequency.

TEST PROCEDURE

ANSI C63.10

The transmitter output is connected to the spectrum analyzer.

20dB Bandwidth: The RBW is set to 1% to 5% of OBW. The VBW is set to 3 times the RBW. 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 5% 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

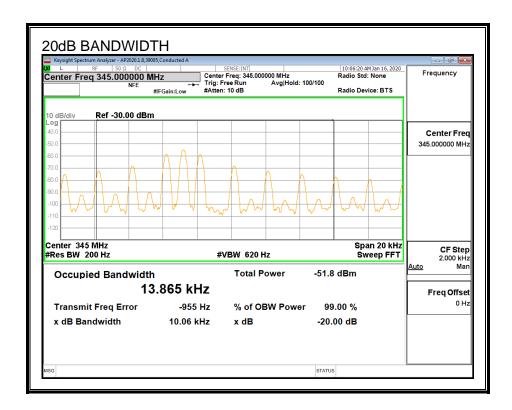
No non-compliance noted:

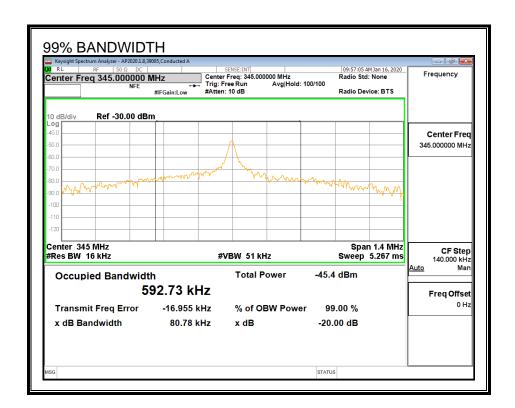
20dB Bandwidth

Frequency	20dB Bandwidth	Limit	Margin
(MHz)	(kHz)	(kHz)	(kHz)
345	10.06	862.5	-852.44

99% Bandwidth

Frequency	99% Bandwidth	Limit	Margin
(MHz)	(kHz)	(kHz)	(kHz)
345	592.73	862.5	-269.77





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.

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TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 1MHz and the VBW is set to 1MHz. 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

- 1. <u>Duty Cycle</u> = (Number of short pulses * ON time a single short pulse) + (Number of long pulses * ON time a single long pulse) / Pulse train length (or 100ms).
- Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle)

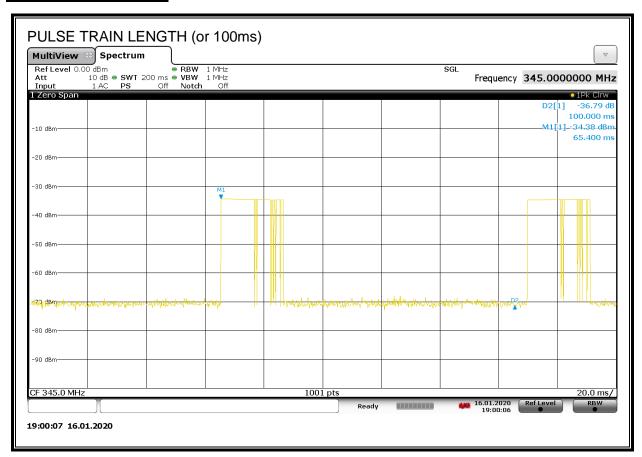
RESULTS

Tester: 19498 ER

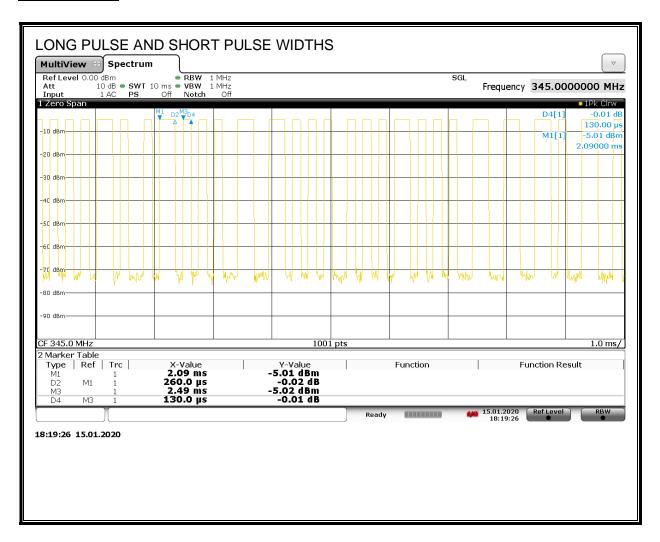
No non-compliance noted:

Short Pulse Width (ms)	Number of Short Pulse	Long Pulse Width (ms)	Number of Long Pulse	Duty Cycle in a pulse train length (or 100ms)	20*Log Duty Cycle (dB)
0.13	42	0.26	19	0.104	-19.66

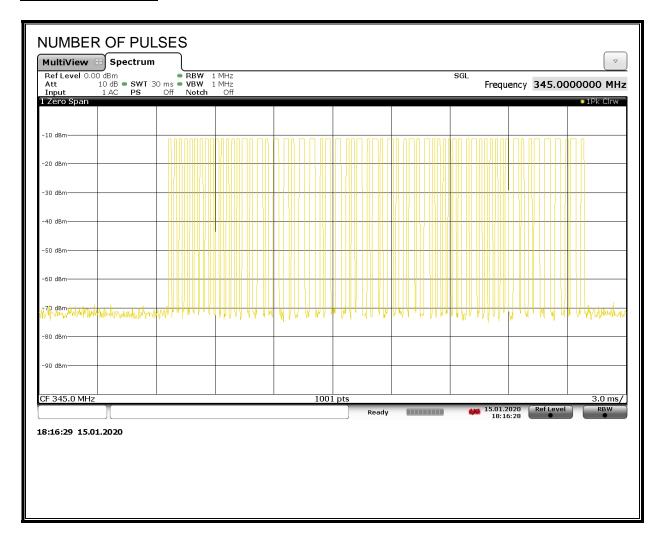
PULSE TRAIN LENGTH



PULSE WIDTHS



NUMBER OF PULSES



7.3. TRANSMISSION TIME

LIMITS

FCC §15.231 (a) (2) RSS-210 A.1.1 (b)

A transmitter that has been activated automatically shall cease transmission within 5 seconds of activation.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW = VBW is set 100 kHz. The sweep time is set to 10 seconds and the span is set to 0 Hz.

RESULTS

Tester: 19498 ER

No non-compliance noted:



7.4. SUPERVISION TRANSMISSIONS

LIMITS

FCC §15.231 (a) (3)

Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour

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Results

Tester:	19498 ER

- 1. According to manufacturer theory of operation, no supervisory transmissions are made, however the device measures the temperature every ~3 minutes, if the temperature has changed by at least 0.5 degrees Celsius since the last transmission, it will transmit the new temperature.
- 2. Total transmission time:

ĺ	Short	Number	Short	Number	One Pulse	Total Pulse	Total
ı	Pulse	of Short	Pulse	of Long	Stream	Streams per	Transmission
ı	Width	Pulse	Width	Pulse		hour	Time per hour
	(ms)		(ms)		(ms)		(ms)
ĺ	0.13	42	0.26	19	10.400	12.00	124.80

8. RADIATED EMISSION TEST RESULTS

LIMITS

FCC §15.231 (b) RSS-210 A.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 (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	¹ 1,250 to 3,750	¹ 125 to 375
174-260	3,750	375
260-470	¹ 3,750 to 12,500	¹ 375 to 1,250
Above 470	12,500	1,250

¹Linear 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 -	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	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(2)
13.36 – 13.41	322 - 335.4		

- 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)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
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 for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. 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; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. Please refer to test report section 7.2 for duty cycle factor information. Note: The pre-scan measurements above 1 GHz the VBW is set to 30 kHz.

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.

2D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

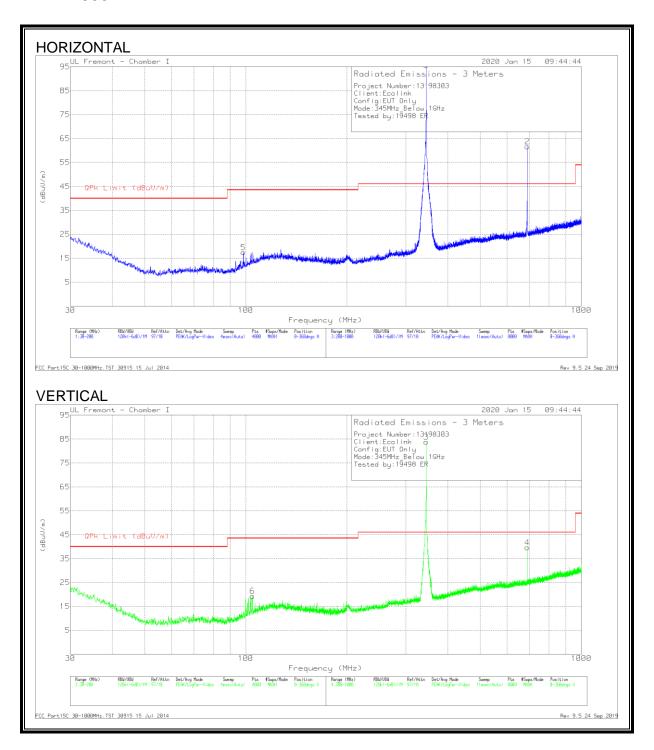
Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

RESULTS

No non-compliance noted:

8.1. FUNDAMENTAL, HARMONICS AND SPURIOUS EMISSION 30 – 1000 MHz



BELOW 1GHZ RADIATED EMISSIONS

FUNDAMENTAL FIELD STRENGTH AND HARMONICS SPURIOUS EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0184052 (dB/m)	Amp Cbl (dB)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	98.5933	29.07	Pk	15.5	-30.9	13.67	77.26	-63.59	159	146	Н
	*98.5933		Av			-5.99	57.26	-63.25	159	146	Н
6	104.6478	28.72	Pk	17.2	-30.8	15.12	77.26	-62.14	343	171	V
	*104.6478		Av			-4.54	57.26	-61.8	343	171	V
1	344.9967	105.28	Pk	20	-29.8	95.48	97.26	-1.78	239	102	Н
	*344.9967		Av			75.82	77.26	-1.44	239	102	Н
2	**689.9915	65.14	Pk	25.7	-28.9	61.94	77.26	-15.32	239	100	Н
	*689.9915	-	Av			42.28	57.26	-14.98	239	100	Н
3	344.997	93.57	Pk	20	-29.8	83.77	97.26	-13.49	144	288	V
	*344.997		Av			64.11	77.26	-13.15	144	288	V
4	**689.9886	43.89	Pk	25.7	-28.9	40.69	77.26	-36.57	136	281	V
	*689.9886		Av			21.03	57.26	-36.23	136	281	V

Pk - Peak detector Av – Average detector

Note:

* Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle). = Peak Reading (dBuV/m) + (-19.66dB). (Refer to section 7.2 Duty Cycle - Calculation)

^{** 2}nd Harmonic of fundamental 345MHz.

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Rev 9.5 24 Sep 2019

HORIZONTAL 105 UL Fremont - Chamber I 2020 Jan 15 Radiated Emissions 3-Meters Project Number:13198303 Client:Ecolink Config:EUT Only Mode:345MHz_Above 1GHz Tested by:19498 ER 85 Class B Pk Limit (dBuV/m Class B Avg Limit 9dBuV/m) dBull 45 Frequency (GHz) Pts #Sups/Mode Position Range (GHz) RRU/URU Ref/Attn Det/Avg Mode FCC Part 15 Subpart B Class B 1-56Hz.TST mf4337 7 Aug 2019 Rev 9.5 24 Sep 2019 VERTICAL 105 UL Fremont - Chamber I 2020 Jan 15 14:58:01 Radiated Emissions 3-Meters Project Number:131983B3 Client:Ecolink Config:EUT Only Mode:345MHz_Above 1GHz Tested by:19498 ER 85 20 16 35 Frequency (GHz)

FCC Part 15 Subpart B Class B 1-5GHz.TST mf4337 7 Aug 2019

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Pk - Peak detector Av – Average detector

Note:

* Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle). = Peak Reading (dBuV/m) + (-19.66dB). (Refer to section 7.2 Duty Cycle - Calculation)

Αv

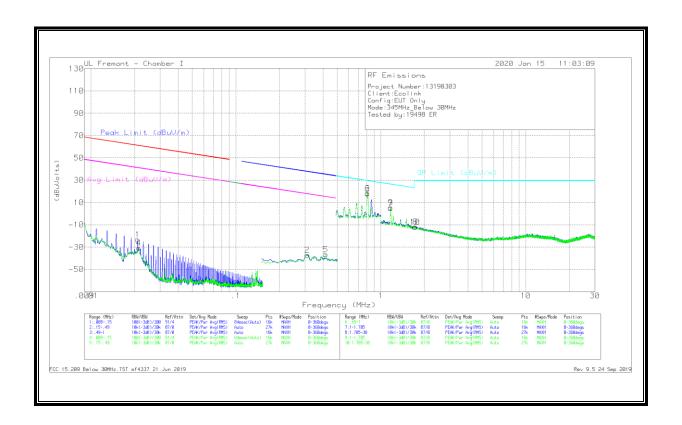
** Harmonics of fundamental 345MHz.

30.94

54

-23.06

8.3. SPURIOUS EMISSION BELOW 30MHz



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BELOW 30MHz RADIATED EMISSIONS

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (ACF)	Cables w/ PRE0180175 (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.021	30.43	Pk	58.7	-32.3	-80	-23.17	61.14	-84.31	41.14	-64.31	-	-	-	-	0-360
2	.31083	18.8	Pk	56.1	-31.9	-80	-37	-	-	-	-	37.76	-74.76	17.76	-54.76	0-360
4	.02146	22.98	Pk	58.6	-32.3	-80	-30.72	60.95	-91.67	40.95	-71.67	-	-	-	-	0-360
5	.41612	19.25	Pk	56	-31.8	-80	-36.55	-	-	-	-	35.22	-71.77	15.22	-51.77	0-360

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (ACF)	Cables w/ PRE0180175 (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.81216	33.63	Pk	56.1	-31.8	-40	17.93	29.42	-11.49	0-360
6	.81146	34.04	Pk	56.1	-31.8	-40	18.34	29.43	-11.09	0-360
7	1.16973	30.8	Pk	45.9	-31.8	-40	4.9	26.26	-21.36	0-360
8	1.72596	16.86	Pk	43	-31.7	-40	-11.84	29.5	-41.34	0-360
9	1.17057	31.27	Pk	45.9	-31.8	-40	5.37	26.26	-20.89	0-360
10	1.72386	16.73	Pk	43	-31.7	-40	-11.97	29.5	-41.47	0-360

Pk - Peak detector