



## Test Report

Prepared for: CentraLite Systems

Model: 3315

Description: 3-Series Water Sensor

Serial Number: N/A

FCC ID: T3L-SS043

To

FCC Part 1.1310

Date of Issue: January 11, 2018

On the behalf of the applicant:

CentraLite Systems  
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Attention of:

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**Poona Saber**  
**Project Test Engineer**

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### Test Report Revision History

<b>Revision</b>	<b>Date</b>	<b>Revised By</b>	<b>Reason for Revision</b>
1.0	January 9, 2018	Poona Saber	Original Document



### ILAC / A2LA

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The tests results contained within this test report all fall within our scope of accreditation, unless below

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Testing Certificate Number: **2152.01**



**FCC Site Reg. #349717**

**IC Site Reg. #2044A-2**

#### **Non-accredited tests contained in this report:**

**N/A**

#### **EUT Description**

**Model:** 3310-G

**Description:** Temp & Humidity Sensor

**Firmware:** NA

**Software:** NA

**Serial Number:** NA

The EUT implements Zigbee technology and it had different power setting for the high channel, channels 11-24 were set to -2 dBm, channel 25 was set to -6dBm and channel 26 was set to -26.

#### **EUT Operation during Tests**

The EUT was set to transmit at the lowest, middle and highest channel of operation at the maximum available output power for each channel. The control of the power and channel settings were done with a Silicon Labs ISA3 debugger.



## Source Based Time Averaged Power Calculation

### Average Power calculations

Average Power = Peak Power \* duty-cycle%

Tuned Frequency (MHz)	Peak Output Power EIRP (mW)	Duty Cycle (%)	Average Power (mW)
2445	9.88	100	9.88



## Minimum Safe Distance Evaluation

This is a mobile device used in Uncontrolled Exposure environment.

**Limits Uncontrolled Exposure**  
**47 CFR 1.1310**  
**Table 1, (B)**

0.3-1.234 MHz:	Limit [mW/cm <sup>2</sup> ] = 100
1.34-30 MHz:	Limit [mW/cm <sup>2</sup> ] = (180/f <sup>2</sup> )
30-300 MHz:	Limit [mW/cm <sup>2</sup> ] = 0.2
300-1500 MHz:	Limit [mW/cm <sup>2</sup> ] = f/1500
1500-100,000 MHz	Limit [mW/cm <sup>2</sup> ] = 1.0

## Test Data

Test Frequency, MHz	2445
Power, EIRP, mW (P)	9.88
Antenna Type	PCB trace Antenna
Limit (L)	1

R=√(PG/4πL)	Distance (R) cm	Power mW (P)	Limit (L)
	0.0019656215	9.88	1

**Note: Max output power value is obtained from associated report.**

END OF TEST REPORT