# REGULATORY COMPLIANCE REPORT

TITLE: SBSR Time of Occupancy update test report (new 45ms message)

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REV	ССО	DESCRIPTION OF CHANGE	DATE	APPROVALS	
001		INITIAL RELEASE		Engineering	
				Regulatory	

# **REVISION HISTORY**

b	added plot of 6 pulses	Engineering	
		Regulatory	
		Engineering	
		Regulatory	
		Engineering	
		Regulatory	

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#### **Test Data Summary**

FCC 15.247 / IC RSS-210 A8

Frequency Hopping Transmitter (SBSR), 908-923.8MHz

FCC:EO9FC300SR
IC ID: 864A-FC300SR
Device Models (for IC): FC300

Serial Numbers: FC30011368181

Updated measurements:

Rule	Description	Previous reading	updated reading	Pass/Fail
Part 15.247(a)(1)(i) / RSS-210 A8.1(c)	Time of Occupancy	109.08	273 mS	Pass

Rule versions: FCC Part 1 (01-2006), FCC Part 2 (01-2006), FCC Part 15 (02-01-2006), RSS-102 Issue 2 (11-2005), RSS-210 Issue 7 (June 2007), RSS-Gen Issue 2 (06-2007).

Reference docs: ANSI C63.4-2003, DA 00-705 (03-30-2000), OET65 (08-1997), OET65C (06-2001), IEEE C95.3-2002.

Cognizant Personnel				
<u>Name</u>	<u>Title</u>			
Drew Rosenberg	R&D Manager			
<u>Name</u> Jay Holcomb	<u>Title</u> Regulatory Manager			
Name Will Mellick	<u>Title</u> Test Technician			

### CONDITIONS DURING TESTING

No Modifications to the EUT were necessary during the testing.

# **EUT Operating Frequency**

The EUT was operating at 908 MHz – 923.8 MHz

## **Temperature and Humidity During Testing**

The temperature during testing was within +15° C and +35° C.

The Relative humidity was between 20% and 75%.

#### **EQUIPMENT UNDER TEST (EUT) DESCRIPTION**

Itron declares that the EUT tested was representative of a production unit.

#### **EQUIPMENT UNDER TEST**

#### FC300 Handheld with SBSR

Manuf: Itron, Inc. Itron Model: FC300

Serial: FC30011368181

#### **Peripheral Devices**

No peripheral devices were used for this test.

#### 15.247(a) (1) (i) / RSS-210 A8.1 (c)

#### Time of Occupancy

Verify that the transmitted signal does not occupy a single frequency for more than 400 mS in a 20 second period.

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

RBW = 1 MHz

 $VBW \geq RBW$ 

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

If possible, use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. Submit this plot(s).

Each transmission is now a <u>maximum of 45.5 ms long</u> (as opposed to the 18.02ms from the original filing). Each transmission takes place on one of 80 different channels in a pseudo-random sequence. All 80 channels are used equally on the average. The algorithm that determines the pseudo-random hop sequence does not allow the device to transmit on the same channel more than 6 times in a 20 second period. The maximum possible occupancy time on any one frequency is now 273 mS or 6 times within a 20 second period.

Equipment Used	Serial Number	Cal Date	Due	
HP4407B	MY45107856	3/11	3/13	
Date	Tested by			
5/31/2012	Drew Rosenberg			



