

-6dBc Occupied Bandwidth / RSS 210 99% Occupied Bandwidth

Test Conditions / Setup

Customer: **Dust Networks**
 Specification: **-6 dB Bandwidth / RSS 210 99% Bandwidth**
 Work Order #: **93690** Date: 10/10/2012
 Test Type: **Conducted Emissions** Time: 13:19:00
 Equipment: **802.15.4 Wireless Mesh Mote** Sequence#: 2
 Manufacturer: Dust Networks Tested By: E. Wong
 Model: ETERNA1 110V 60Hz
 S/N: 000D67

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02869	Spectrum Analyzer	E4440A	2/12/2011	2/12/2013
T3	AN02946	Cable	32022-2-2909K-36TC	8/8/2011	8/8/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
802.15.4 Wireless Mesh Mote*	Dust Networks	ETERNA1	000D67

Support Devices:

Function	Manufacturer	Model #	S/N
Eterna Serial Programmer	Dust Networks	NA	NA
Laptop	Lenovo	X61	7675CTO

Test Conditions / Notes:

The EUT seeking modular approval is installed atop a blank support PCB as intended. Placed on the test bench, the EUT is connected to a support laptop via a section of data cable and Serial Programmer. The Support laptop issues command to exercise the EUT, setting the EUT in continuous transmit mode. Emission profile measured at the antenna port.

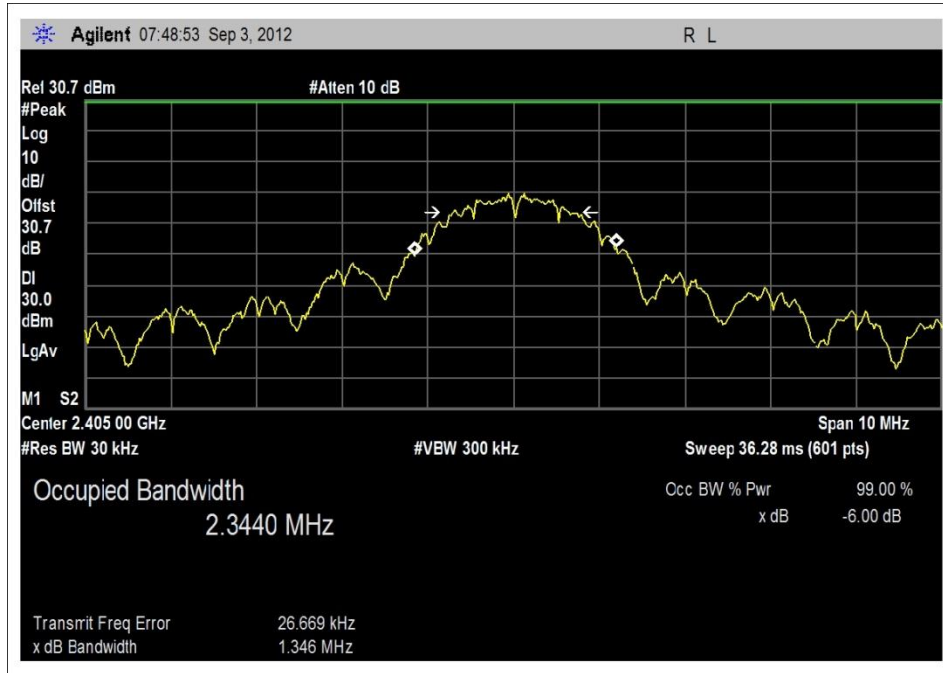
Modulation: 802.15.4
 Freq range: 2405-2475MHz

Freq: 2405MHz, 2440MHz, 2475MHz
 Firmware power setting = 8dBm

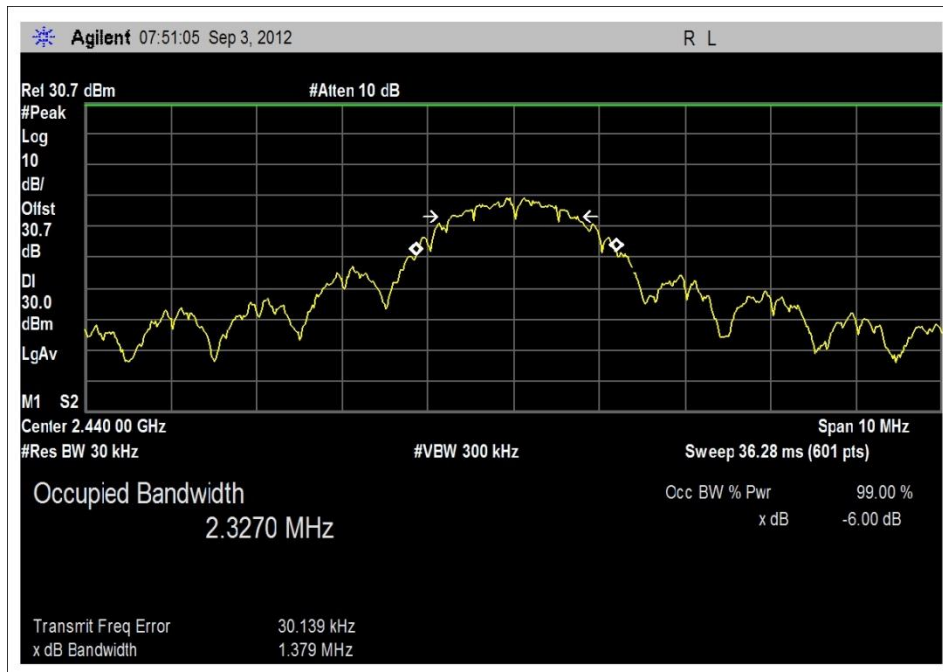
Measurement procedure In Accordance With FCC document KDB558074 D01 DTS Meas Guidance V02, 7.1

Test environment conditions: 21°C, 52% Relative Humidity, 100kPa

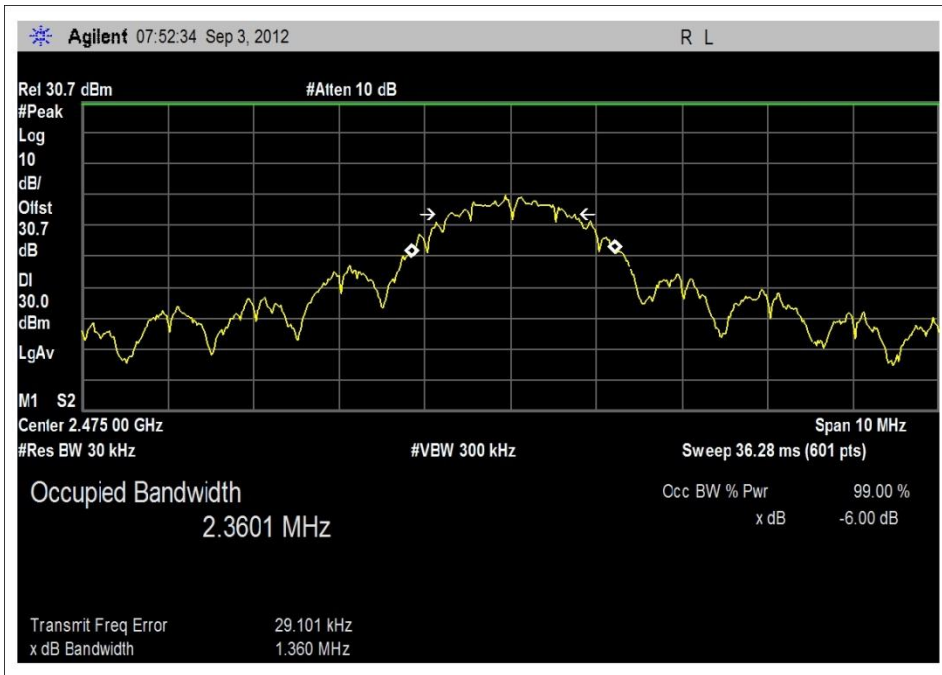
Test Plots



2405MHz



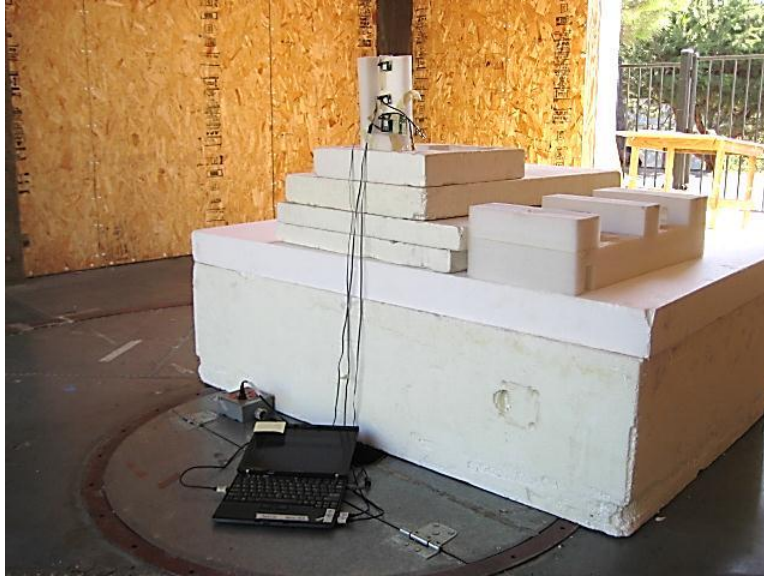
2440MHz



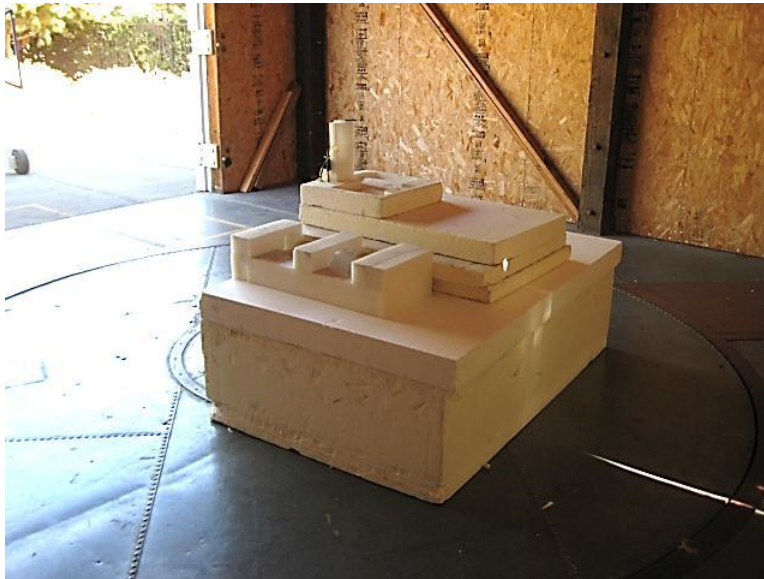
2475MHz

Test Setup Photos

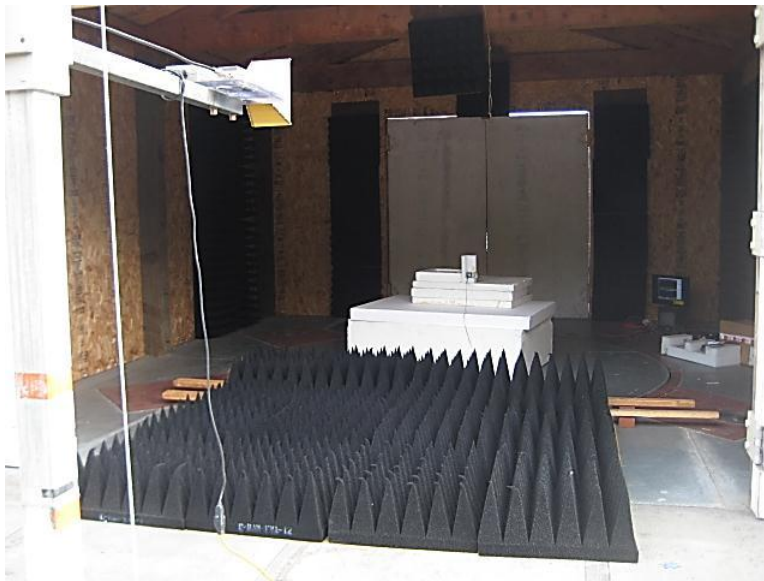




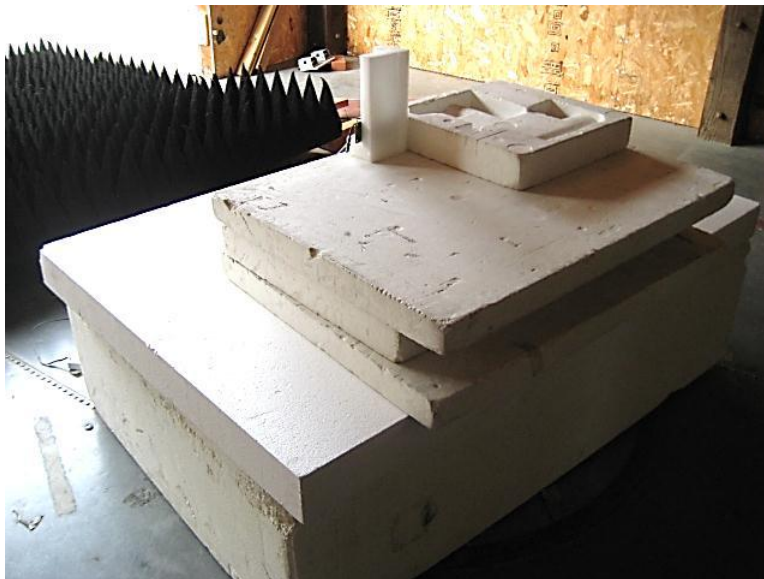
9kHz-1GHz



9kHz-1GHz



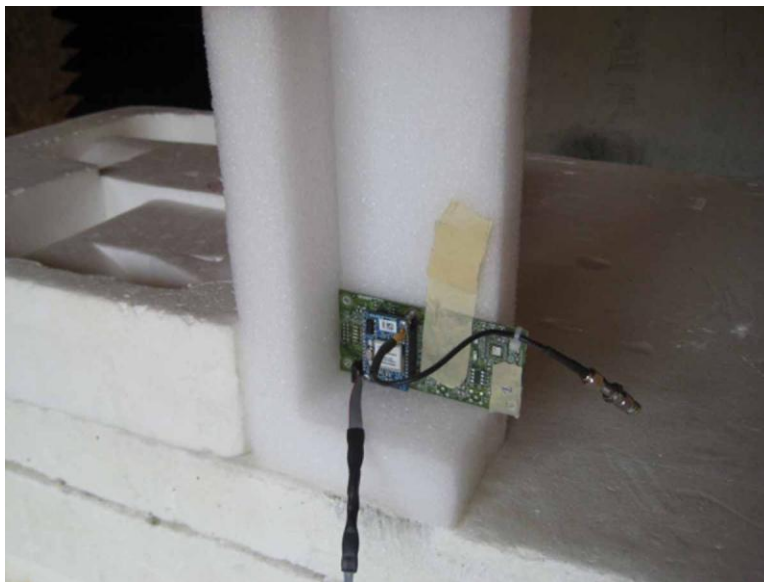
1-25GHz



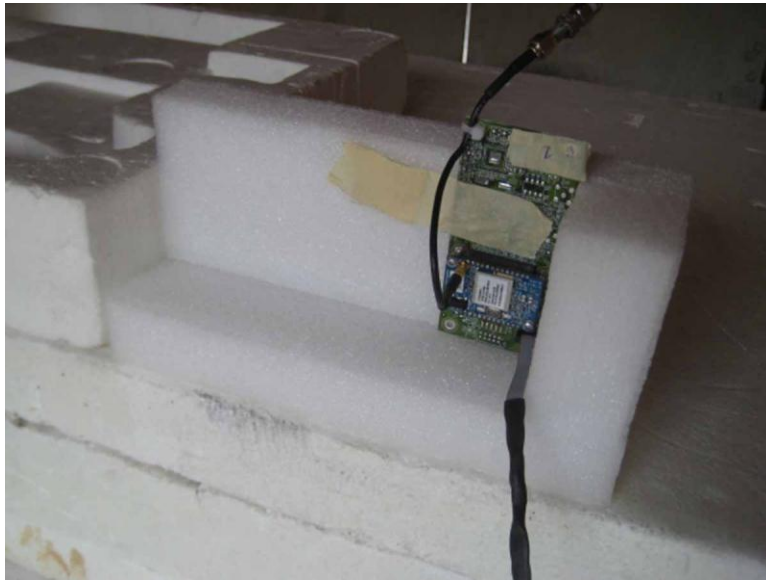
1-25GHz



X AXIS



Y AXIS



Z AXIS