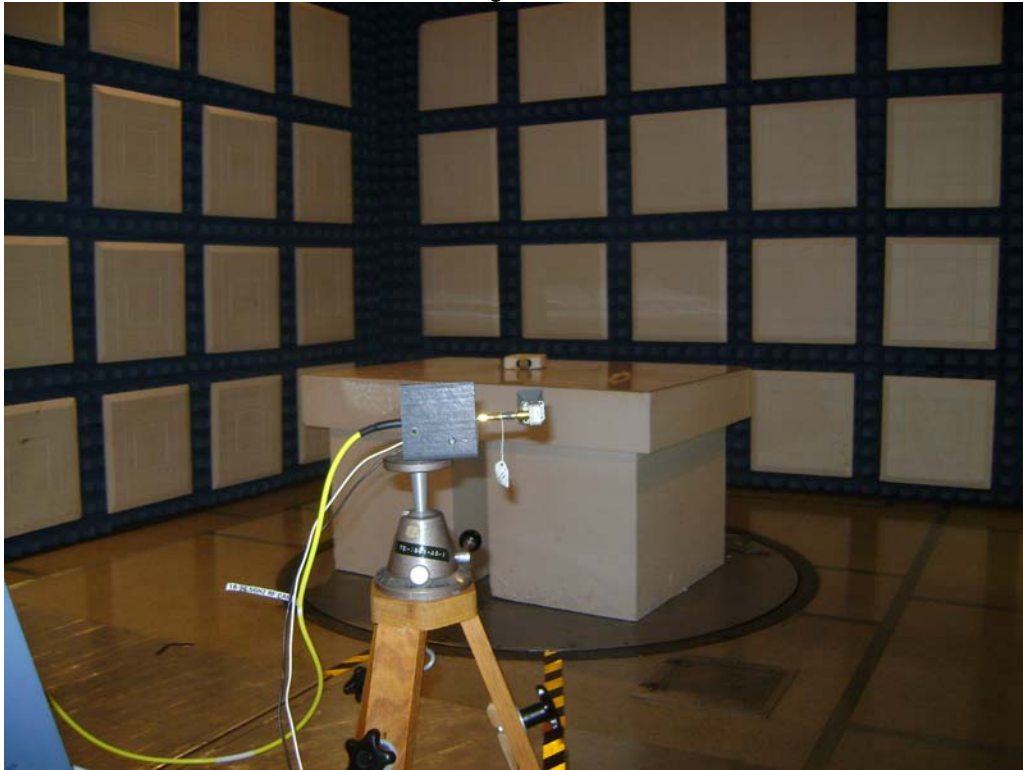
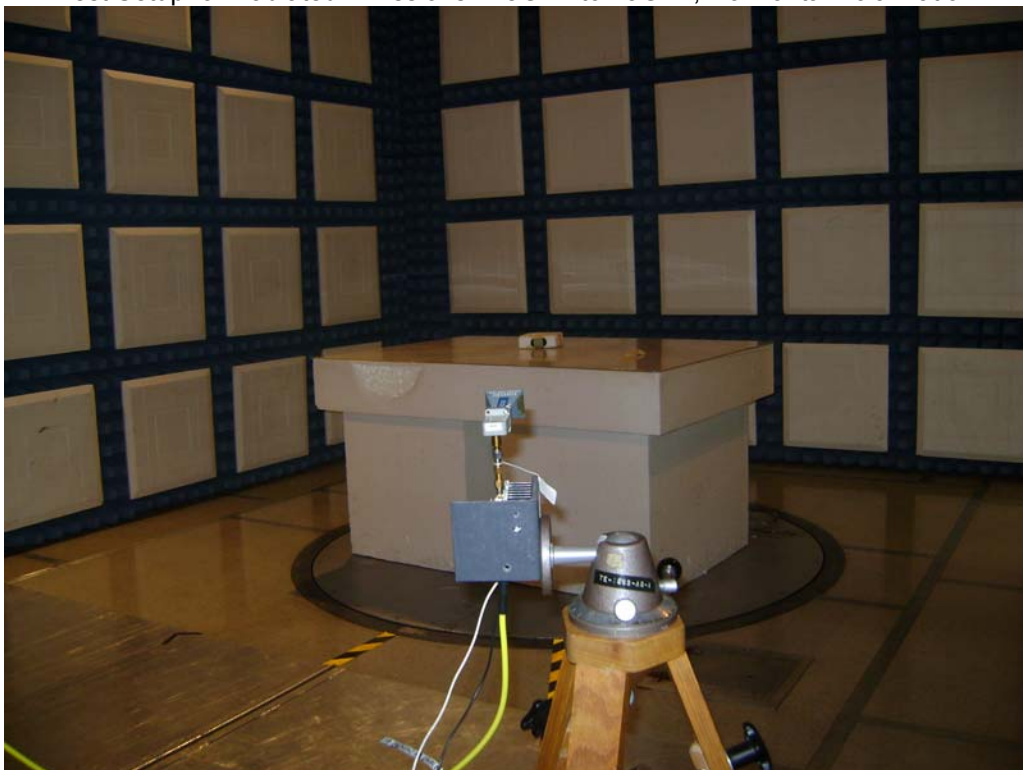




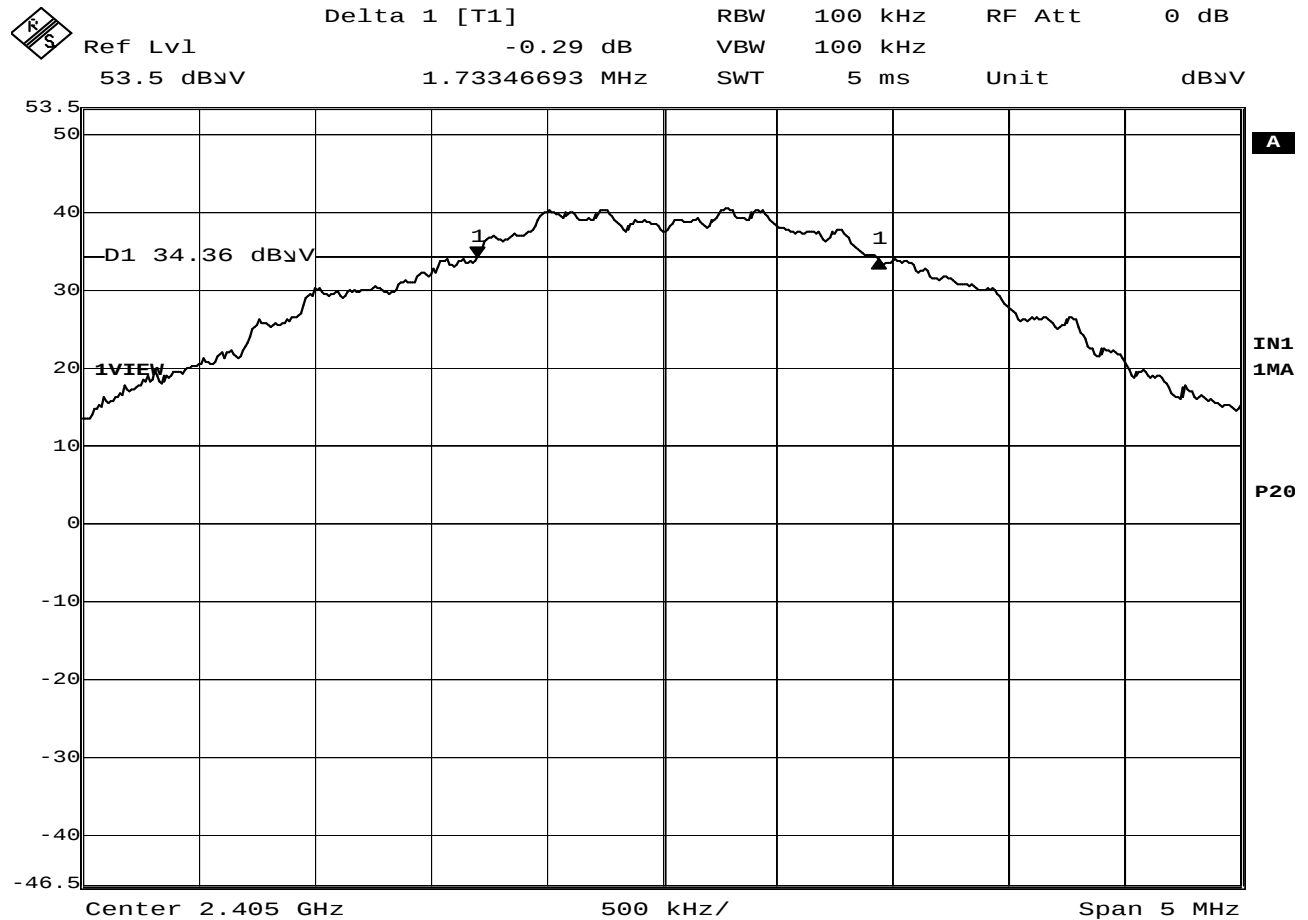
Figure 4



Test Setup for Radiated Emissions – 18GHz to 25GHz, Horizontal Polarization



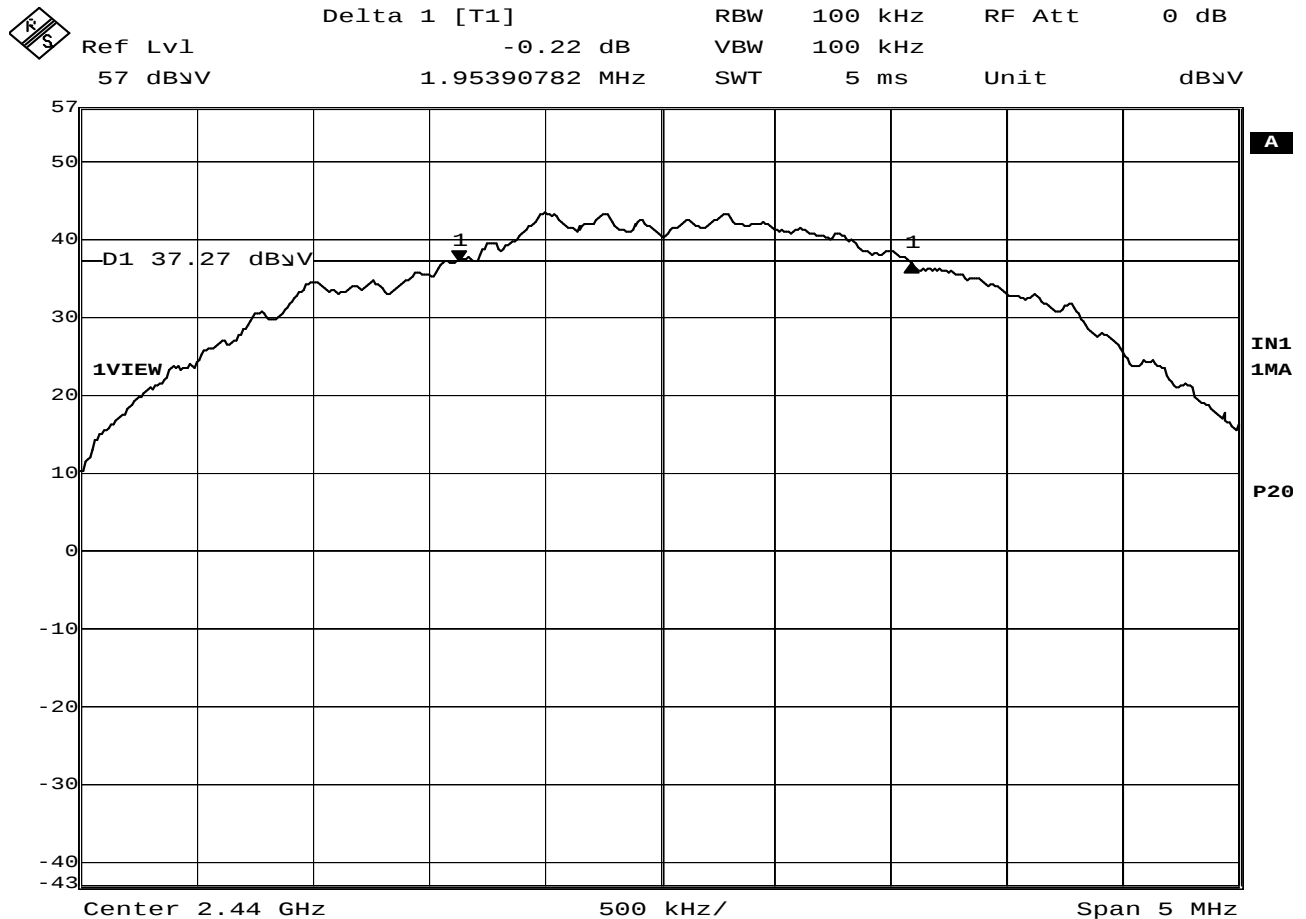
Test Setup for Radiated Emissions – 18GHz to 25GHz, Vertical Polarization



Date: 15.JUN.2010 14:47:59

FCC 15.247(a) 6dB Band Width

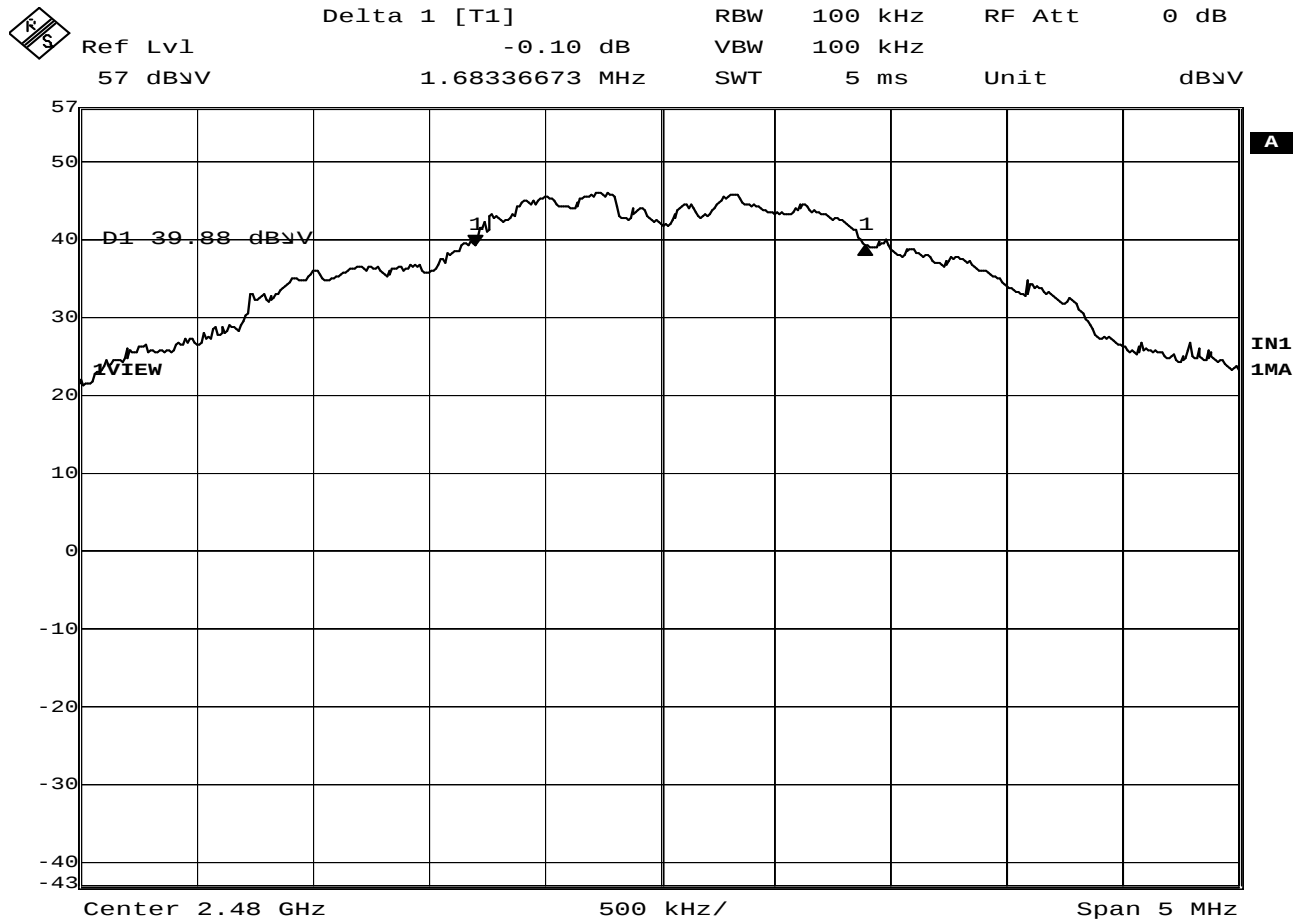
MANUFACTURER : Twisthink
MODEL NUMBER : Swim Device Rev. 5, TTF0014-04
SERIAL NUMBER : 0209828
TEST MODE : Tx @ 2.405GHz (Ch. 11)
TEST DATE : June 15, 2010
TEST PARAMETERS : 6dB band width
NOTES : Display line D1 represents the 6dB down point.
: 6dB bandwidht = 1.73MHz
EQUIPMENT USED : RBB0, T2S7, NWI0



Date: 16.JUN.2010 09:50:45

FCC 15.247(a) 6dB Band Width

MANUFACTURER : Twisthink
MODEL NUMBER : Swim Device Rev. 5, TTF0014-04
SERIAL NUMBER : 0209828
TEST MODE : Tx @ 2.44GHz (Ch. 18)
TEST DATE : June 16, 2010
TEST PARAMETERS : 6dB band width
NOTES : Display line D1 represents the 6dB down point.
: 6dB bandwidht = 1.95MHz
EQUIPMENT USED : RBB0, T2S7, NWI0



Date: 15.JUN.2010 12:10:25

FCC 15.247(a) 6dB Band Width

MANUFACTURER : Twisthink
MODEL NUMBER : Swim Device Rev. 5, TTF0014-04
SERIAL NUMBER : 0209828
TEST MODE : Tx @ 2.480GHz (Ch. 26)
TEST DATE : June 15, 2010
TEST PARAMETERS : 6dB band width
NOTES : Display line D1 represents the 6dB down point.
: 6dB bandwidht = 1.68MHz
EQUIPMENT USED : RBB0, T2S7, NWI0

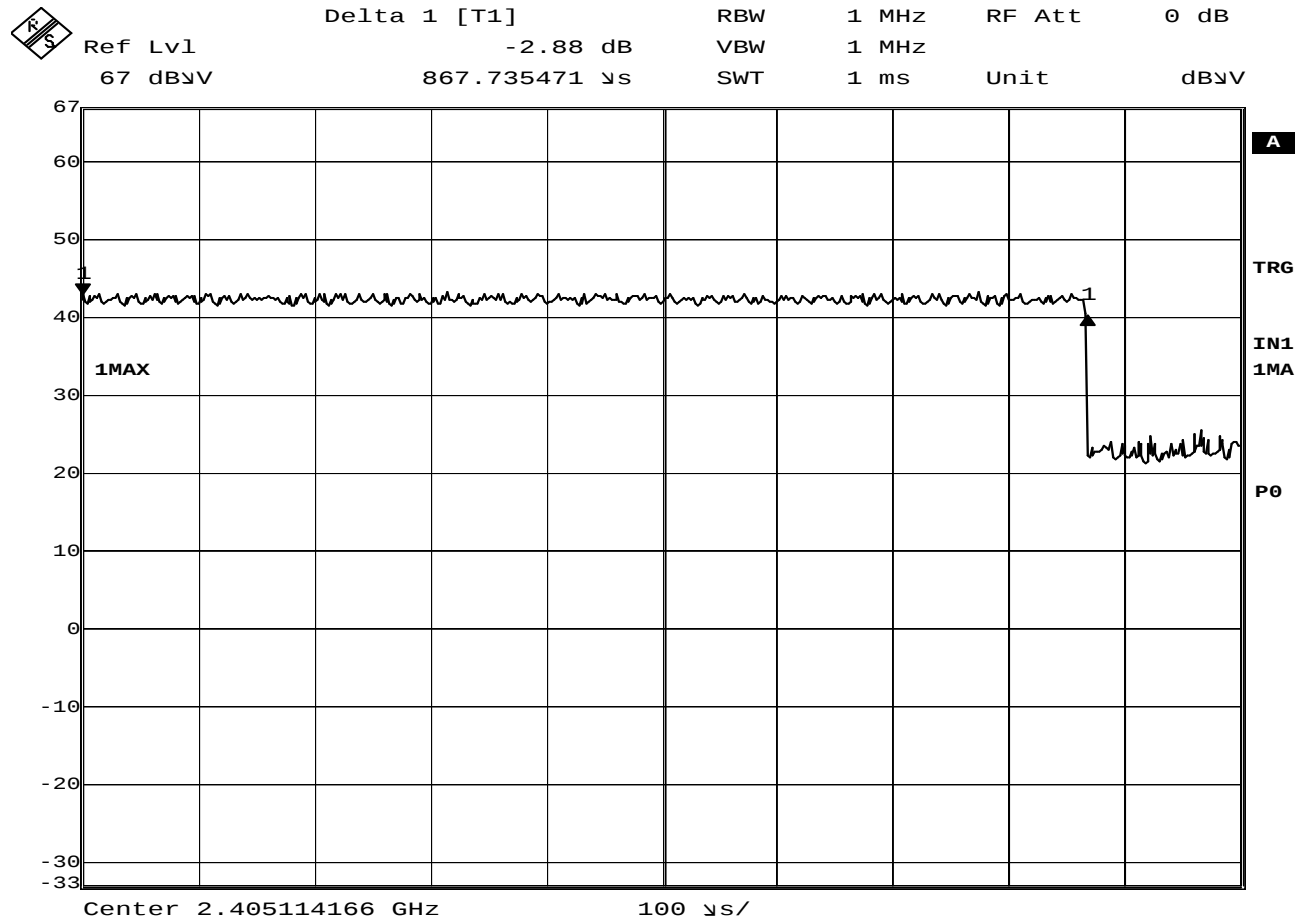


MANUFACTURER : Twisthink, LLC
MODEL NUMBER : TT50014-04
SERIAL NUMBER : 020-9820
TEST MODE : See Below
TEST DATE : June 15 and 16, 2010
TEST PARAMETERS : FCC Part 15, Subpart C, 15.247, Peak Output Power
NOTES : EIRP Measurements
EQUIPMENT USED : RBB0, NWI0, NWI1, GRE0

Frequency MHz	Antenna Polarization	Meter Reading dBuV	Matched Signal Generator Reading dBm	Antenna Gain dB	Cable Loss dB	EIRP dBm	Limit dBm
Transmit at 2405MHz							
2405.0	H	69.5	2.2	6.5	3.0	5.6	36.0
2405.0	V	76.4	8.5	6.5	3.0	11.9	36.0
Transmit at 2440MHz							
2440.0	H	70.0	2.2	6.6	3.1	5.7	36.0
2440.0	V	70.0	2.2	6.6	3.1	5.7	36.0
Transmit at 2480MHz							
2480.0	H	71.0	3.8	6.7	3.1	7.4	36.0
2480.0	V	76.6	8.5	6.7	3.1	12.1	36.0

$EIRP\ (dBm) = Sig.\ Gen.\ (dBm) + Antenna\ Gain\ (dBm) - Cable\ Loss\ (dB)$

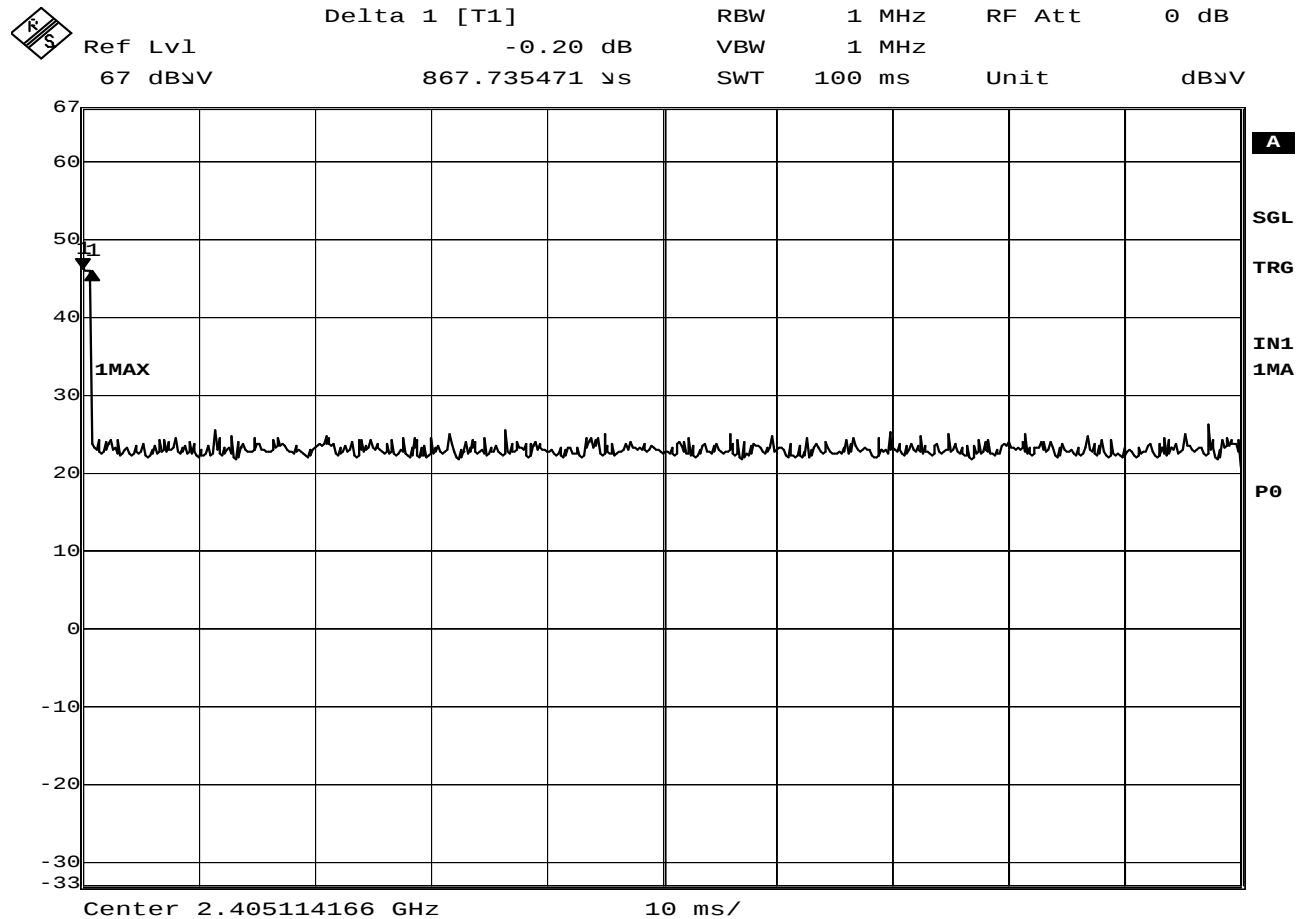
Checked By: MARK E. LONGINOTTI
Mark E. Longinotti



Date: 13.JUL.2010 11:08:35

FCC 15.247Duty Cycle Correction Factor

MANUFACTURER : Twisthink
MODEL NUMBER : Swim Device Rev. 5, TTF0014-04
SERIAL NUMBER : 0209828
TEST MODE : Tx @ 2.405GHz (Ch. 11)
TEST DATE : July 13, 2010
TEST PARAMETERS : Duty Cycle Correction Factor
NOTES : Pulse width = 867.7μsec
EQUIPMENT USED : RBA1, T2S8, T2D2, T1N6



Date: 13.JUL.2010 11:13:06

FCC 15.247 Duty Cycle Correction Factor

MANUFACTURER : Twisthink
MODEL NUMBER : Swim Device Rev. 5, TTF0014-04
SERIAL NUMBER : 0209828
TEST MODE : Tx @ 2.405GHz (Ch. 11)
TEST DATE : July 13, 2010
TEST PARAMETERS : Duty Cycle Correction Factor
NOTES : Pulse width = 867.7μsec, 1 pulse in a 100msec period.
: Duty Cycle Correction Factor = $20 \cdot \log((\text{on time})/100\text{msec})$
: Duty Cycle Correction Factor = $20 \cdot \log((0.8677\text{msec})/100\text{msec})$
: Duty Cycle Correction Factor = -41.2dB
EQUIPMENT USED : RBA1, T2S8, T2D2, T1N6

