



Test Report

FCC Part 15, Subpart C, Section 15.247 Industry Canada RSS-210, Issue 8

Report Number: CWD07234-Cert

Model: CWD07234

FCC ID: EROCWD07234
IC: 5683C-CWD07234

Date: March 25, 2013 (Revised March 28, 2013)

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Date: Mar. 25, 2013

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Date: Mar. 25, 2013



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1. General Description

1.1 Product Description

The equipment under test (EUT) is a Crestron 2.4GHz two-way RF transceiver module, model: CWD07234, serial numbers: CNA 7961368 and CAN 7961385.

1.2 Test Methodology

Measurements were performed according to the following procedures and standards:

- 1) ANSI C63.4: 2009
- 2) FCC Publication, "Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating under §15.247", October 4, 2012
- 3) Industry Canada RSS-Gen Issue 3
- 4) Industry Canada RSS-210 Issue 8
- 5) Industry Canada ICES-003 Issue 5

All measurements were performed in a 3-meter semi-anechoic chamber and the control room.

1.3 Test Facility

The 3-meter semi-anechoic chamber used to collect conducted and radiated emission data is located at 22 Link Drive, Rockleigh, New Jersey. This test facility has been placed on file with the FCC, Registration Number: 412871, and Industry Canada, Site Number: 5683C-1.



1.4 Test Equipment

| Description | Model | Serial No. | Frequency Range | Calibration Date |
|---|-----------|------------|-------------------|------------------|
| R&S EMI Receiver | ESU40 | 100076 | 20 Hz – 40 GHz | Dec. 13, 2012 |
| Teseq Bilog Antenna | CBL 6112D | 25231 | 30 MHz – 2 GHz | Dec. 11, 2012 |
| ETS-Lindgren Double Ridge Horn Antenna | 3117 | 00047560 | 1 GHz – 18 GHz | Feb. 23, 2013 |
| R&S Preamplifier | TS-PR18 | 100044 | 30 MHz – 18 GHz | Dec. 11, 2012 |
| ETS-Lindgren Standard Gain Horn Antenna | 3160-09 | 00078911 | 18 GHz – 26.5 GHz | Feb. 5, 2013* |
| R&S Preamplifier | TS-PR26 | 100030 | 18 GHz – 26.5 GHz | Dec. 11, 2012 |
| R&S V-network | ENV216 | 101122 | 10 kHz – 50 MHz | Feb. 21, 2013 |

*Mechanical inspection

1.5 Evaluation Summary

| Rule Section | | Description/Parameters | Results |
|------------------------------|------------------------|--|-------------------------|
| FCC | IC | | |
| §15.203 | N/A | Antenna Requirement | Complies |
| §15.247(a)(2) | §A8.2(a) of RSS-210 | 6 dB Bandwidth, 500 kHz | Complies |
| N/A | §4.6.1 of RSS-Gen | 99% Occupied Bandwidth | (for reporting purpose) |
| §15.247(b)(3) | §A8.4(4) of RSS-210 | Power Output, conducted, 1 Watt (30dBm) | Complies |
| §15.247(d) | §2.1, §A8.5 of RSS-210 | Band Edge | Complies |
| §15.247(d) | §A8.5 of RSS-210 | Conducted Spurious Emissions, 20 dBc | Complies |
| §15.247(e) | §A8.2(b) of RSS-210 | Power Spectral Density (PSD), 8 dBm in any 3 kHz band. | Complies |
| §15.205, §15.209, §15.247(d) | §2.2, §A8.5 of RSS-210 | Radiated Spurious Emissions | Complies |
| §15.207 | §7.2.4 of RSS-Gen | Transmitter AC Power Line Conducted Emissions | Complies |

Note:

The channels selected for test were 11, 18, and 26.

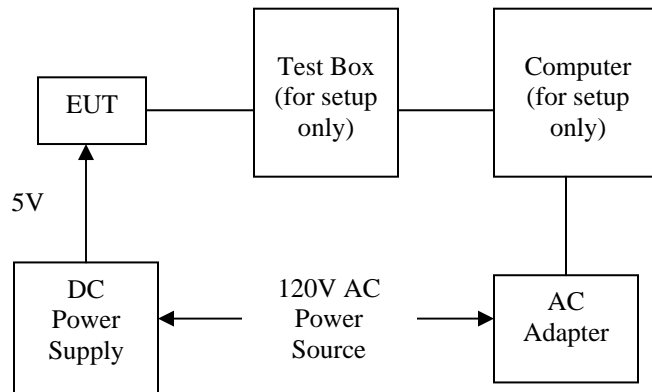
2. System Test Configuration

2.1 Justification

A DC power supply supplied power to the EUT. A computer supplied test commands through a test box.

2.2 Block Diagram

Block diagram is shown below.



2.3 EUT Exercise Software and Mode(s) of Operation

The EUT was configured to transmit continuously. Channels 11 (2405 MHz), 18 (2440 MHz), and 26 (2480 MHz) were selected for test.

2.4 Cables

| Qty | Description | Length (m) | From - To | Shielded/ Unshielded |
|-----|---------------------------|------------|-----------------------|-------------------------|
| 1 | Cat5 (Crossover) | 0.6 | Computer – Test Box | Unshielded |
| 1 | USB | 2.0 | Computer – Test Box | Unshielded |
| 1 | AWG#18 | 1 | DC Power Supply – EUT | Unshielded |
| 1 | 10-conductor Ribbon Cable | 0.3 | Test Box – EUT | Unshielded |



2.5 *Special Accessories*

There are no special accessories for compliance of this EUT.

2.6 *Support equipment*

| No | Description | Manufacturer | Model No | Serial No |
|----|-----------------|--------------|----------------|--------------------------|
| 1 | Computer | DELL | Latitude E6520 | 7HL06Q1 (Service Tag) |
| 2 | AC Adapter | DELL | PA-1900-02D | CN-09T215-71615-52N-17B9 |
| 3 | DC Power Supply | BK Precision | 1670 | 281-2152 |
| 4 | Test (Red) Box | Ember | ISA3 | EM-ISA3-B4A |

2.7 *Equipment Modifications*

There were no modifications installed during compliance measurements.



3. Evaluation

3.1 *Antenna Requirements*

This module is validated with two SMD antennas with antenna gain of 2.1 dBi (the antenna connected to the module through a cable) and 1.8 dBi (the onboard antenna).

The soldering pads of the SMD antenna is unique in the sense of complying with FCC §15.203, §15.204(b), and §15.204(c).

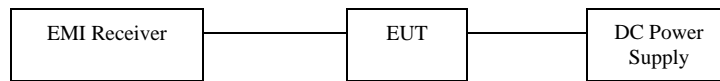


3.2 6 dB Bandwidth

Performance Criterion: The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Results: Complies

Test Details: Refers to the following block diagram, data table, and receiver screen captures. The EUT was tested in a continuous transmit mode at the maximum power level at the boost mode.

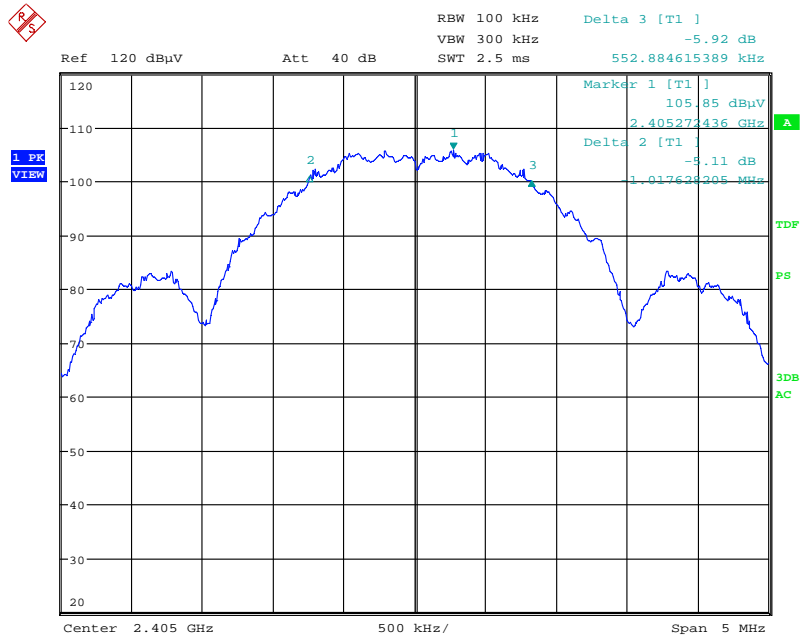


| Channel | Frequency (MHz) | 6 dB Bandwidth (kHz) |
|---------|-----------------|----------------------|
| 11 | 2405 | 1570.5 |
| 18 | 2440 | 1594.6 |
| 26 | 2480 | 1594.6 |

Note: The RF level in the plots is relative and is not the indication of RF output power.

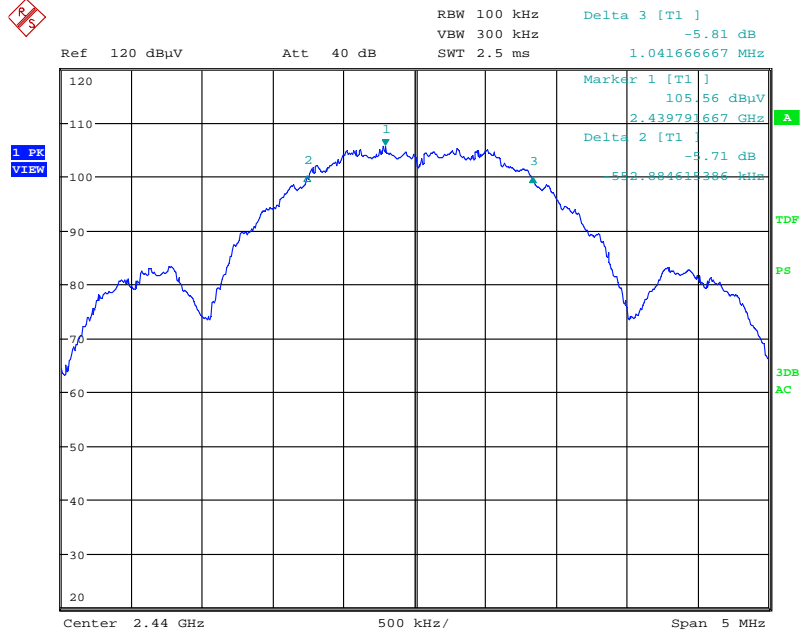


6 dB Bandwidth, Channel 11:



Date: 25.MAR.2013 13:08:08

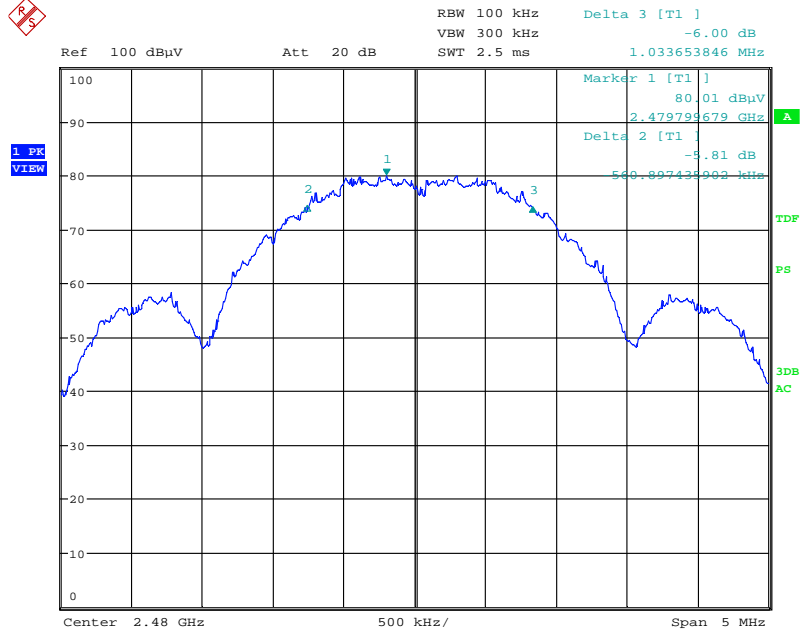
6 dB Bandwidth, Channel 18:



Date: 25.MAR.2013 13:06:17



6 dB Bandwidth, Channel 26:



Date: 25.MAR.2013 13:10:03



3.3 99% Bandwidth

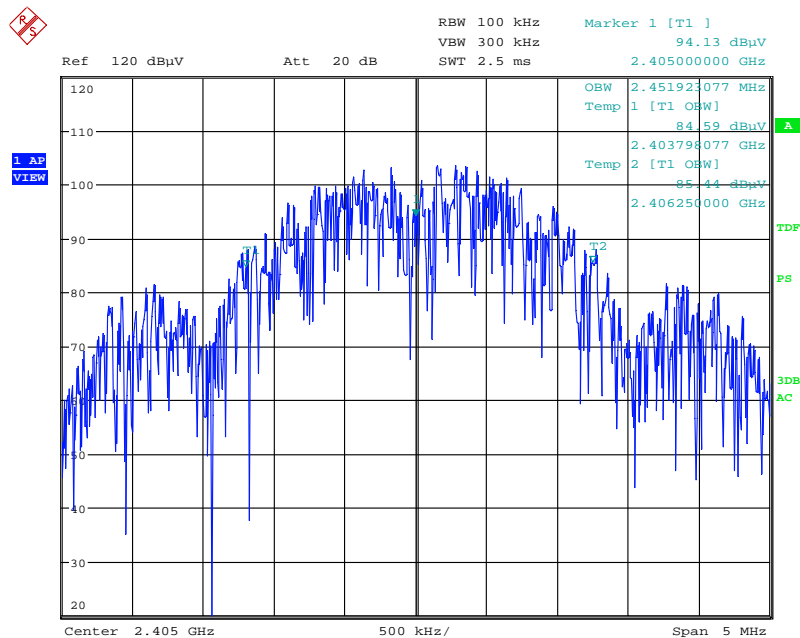
Test Details: Refers to the following block diagram, data table, and receiver screen captures. The EUT was tested in a continuous transmit mode at the maximum power level at the boost mode.



| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| 11 | 2405 | 2.452 |
| 18 | 2440 | 2.452 |
| 26 | 2480 | 2.452 |

Note: The RF level in the plots is relative and is not the indication of RF output power.

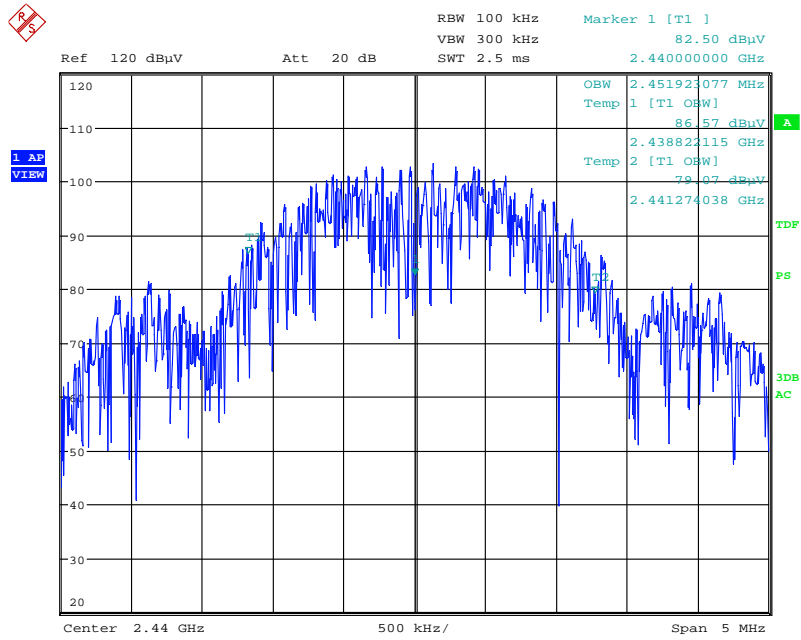
99% Bandwidth, Channel 11:



Date: 25.MAR.2013 13:14:52

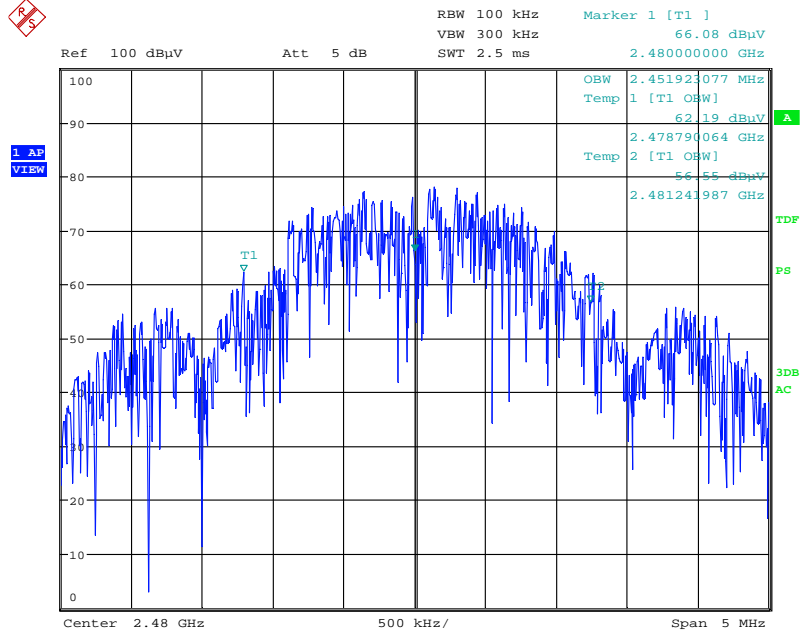


99% Bandwidth, Channel 18:



Date: 25.MAR.2013 13:12:48

99% Bandwidth, Channel 26:



Date: 25.MAR.2013 13:11:05

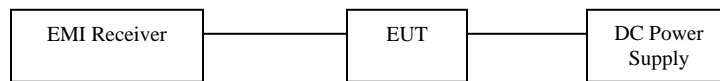


3.4 Power Output

Performance Criterion: The maximum peak conducted output power shall not exceed 1 Watt.

Test Results: Complies

Test Details: The EUT was tested in a continuous transmit mode with maximum power levels at the boost mode. Refers to the following block diagram, data table, and receiver screen captures.

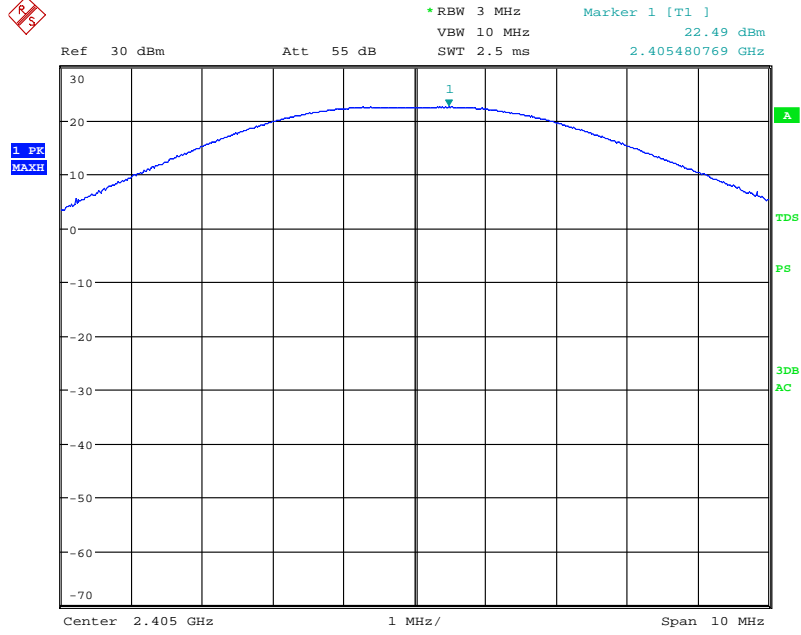


| Channel | Frequency (MHz) | Power Level | Power | |
|---------|-----------------|-------------|-------|--------|
| | | | dBm | mW |
| 11 | 2405 | -4 | 22.49 | 177.42 |
| 18 | 2440 | -4 | 22.42 | 174.58 |
| 26 | 2480 | -26 | 4.20 | 2.63 |

Note: The insertion loss was compensated for in the receiver.

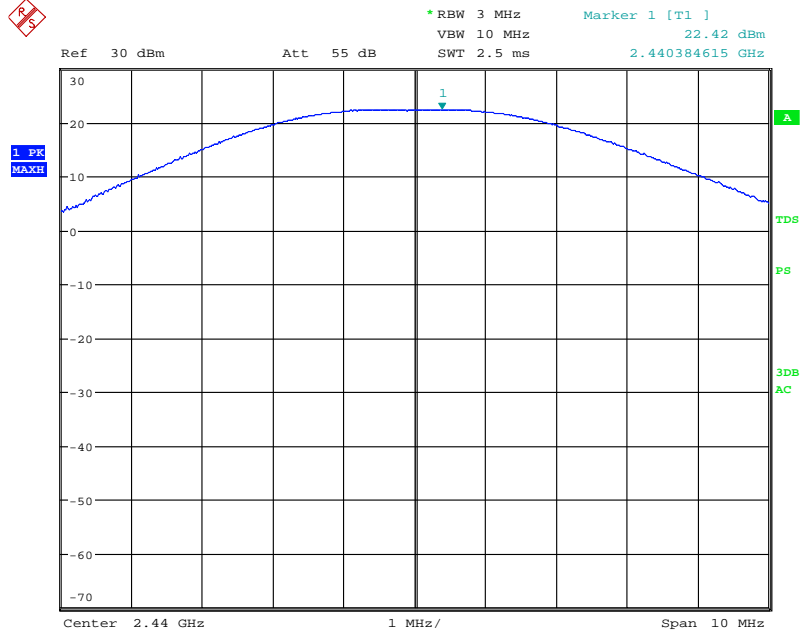


Power Output, Channel 11:



Date: 25.MAR.2013 13:18:37

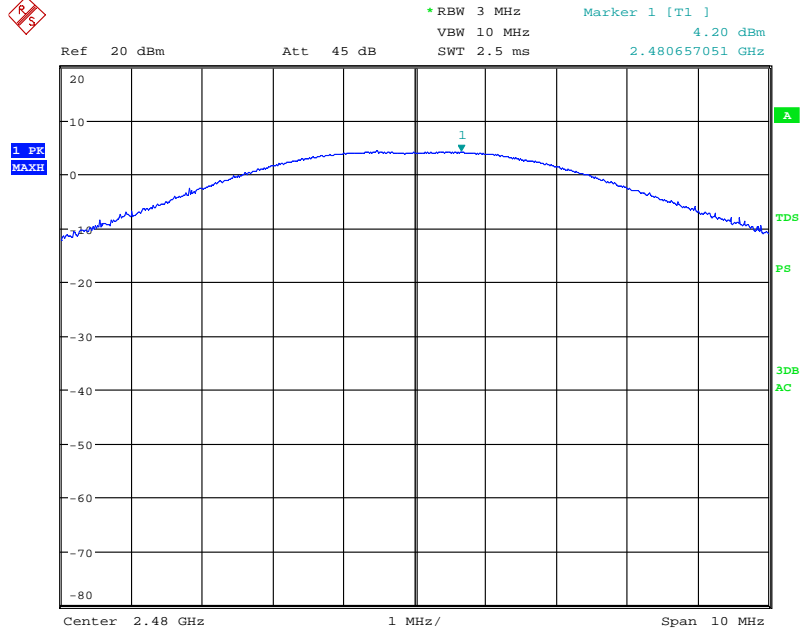
Power Output, Channel 18:



Date: 25.MAR.2013 13:19:56



Power Output, Channel 26:



Date: 25.MAR.2013 13:21:42



3.5 *Band Edge*

Performance Criterion: In any 100 kHz bandwidth outside the frequency band, the RF power shall be at least 20 dB below that in the 100 kHz bandwidth within the band.

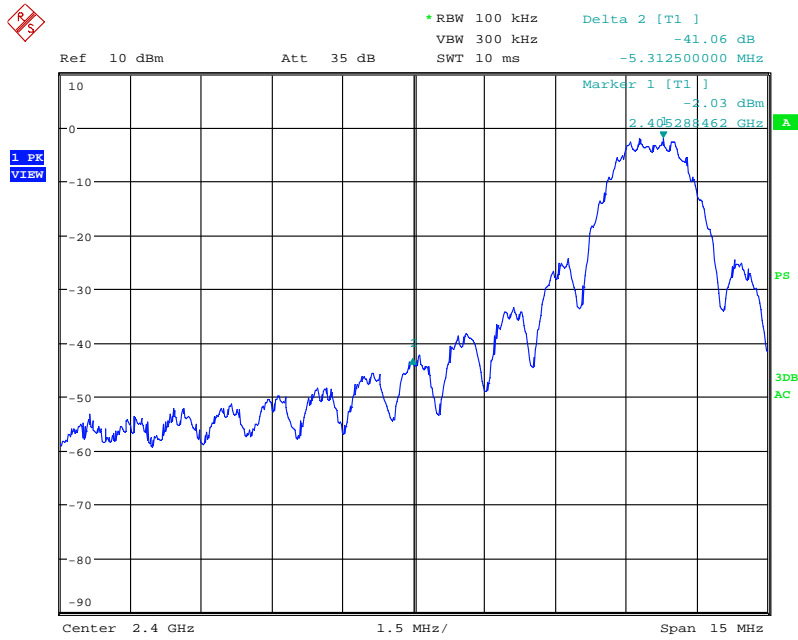
Test Results: Complies

Test Details: Refers to the following block diagram and receiver screen captures

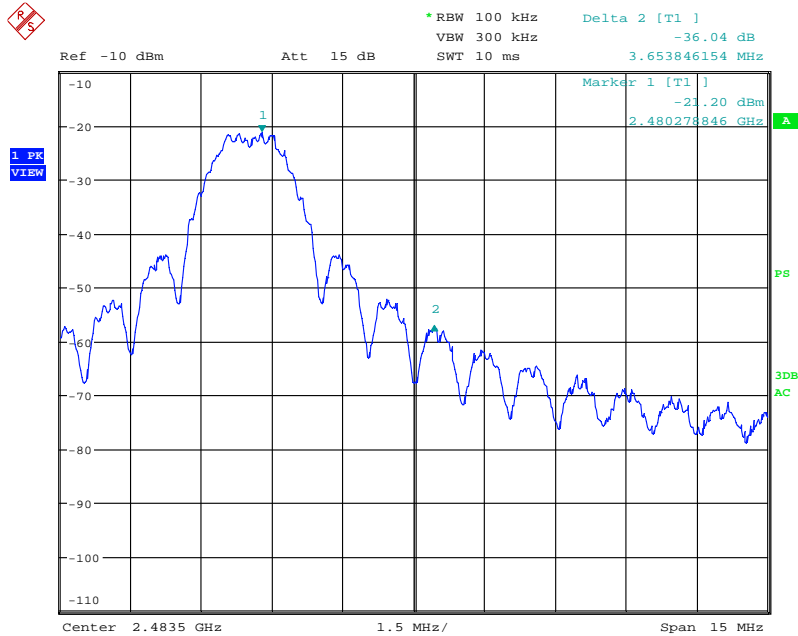




Band Edge:



Date: 25.MAR.2013 13:33:09



Date: 25.MAR.2013 13:35:18



3.6 *Conducted Spurious Emissions*

Performance Criterion: In any 100 kHz bandwidth outside the frequency band, the radio frequency power shall be at least 20 dB below that in the 100 kHz bandwidth within the band.

Test Results: Complies

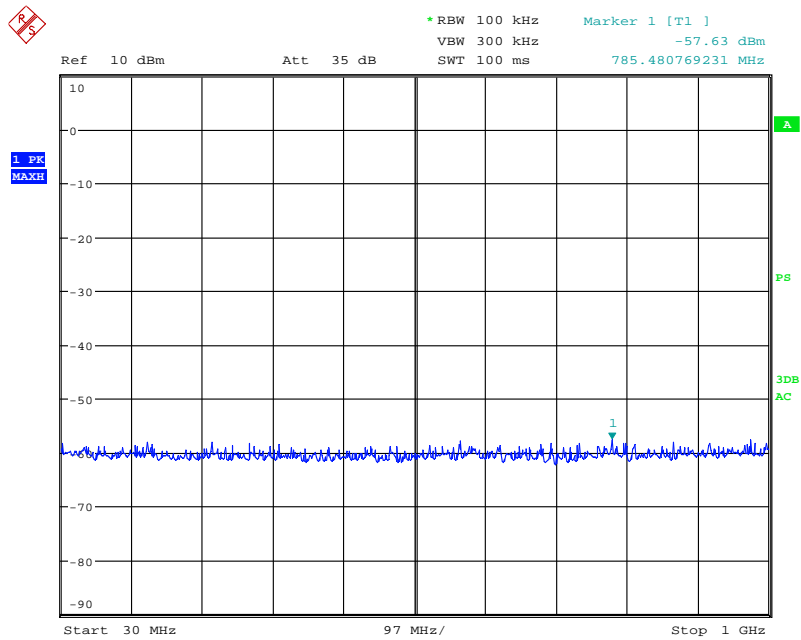
Test Details: Refers to the following block diagram and receiver screen captures

Note: The EUT was tested in a continuous transmit mode at the maximum power level at the boost mode. The RF level in the screen captures is relative and is not the indication of RF output power.

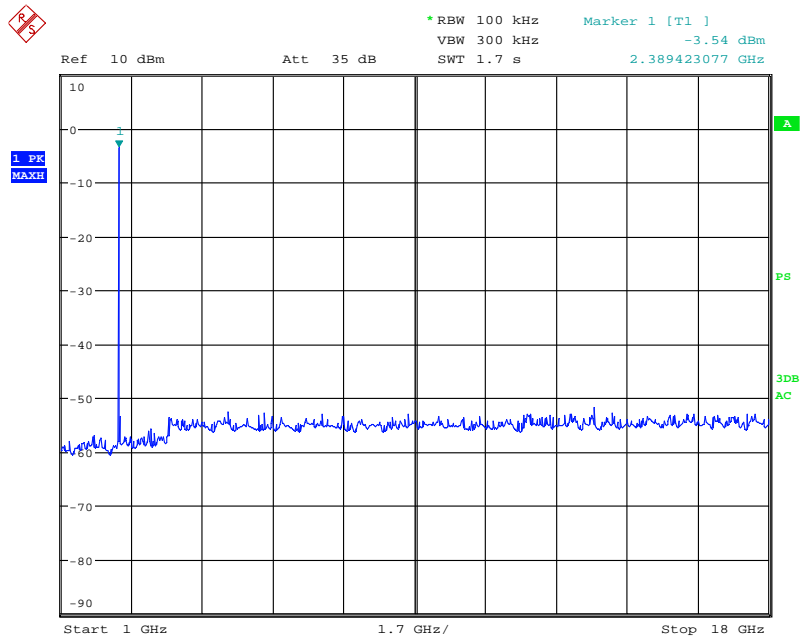




Conducted Spurious Emission – Channel 11



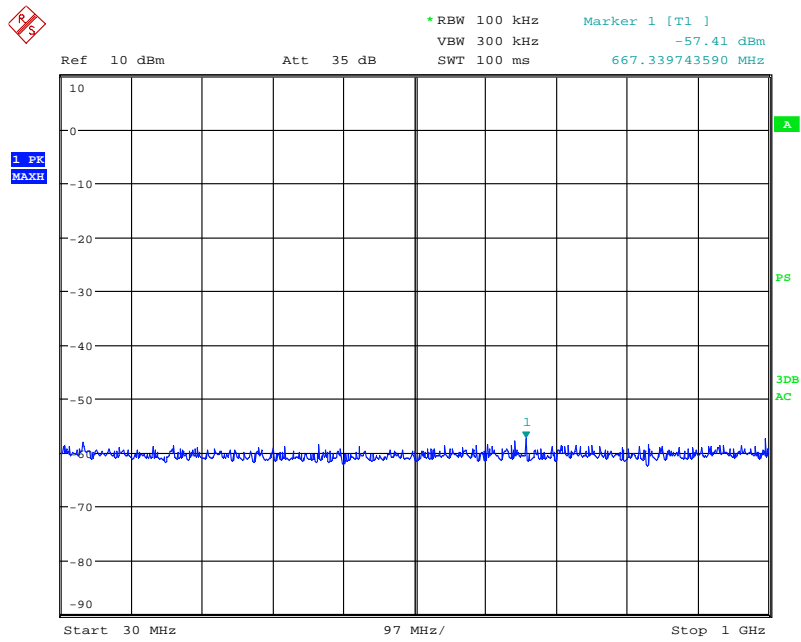
Date: 25.MAR.2013 13:40:37



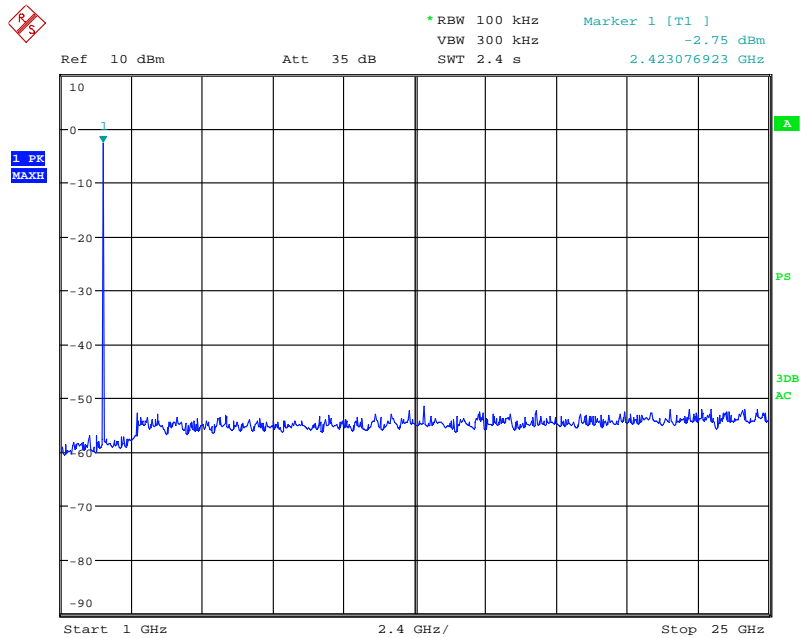
Date: 25.MAR.2013 13:41:02



Conducted Spurious Emission – Channel 18



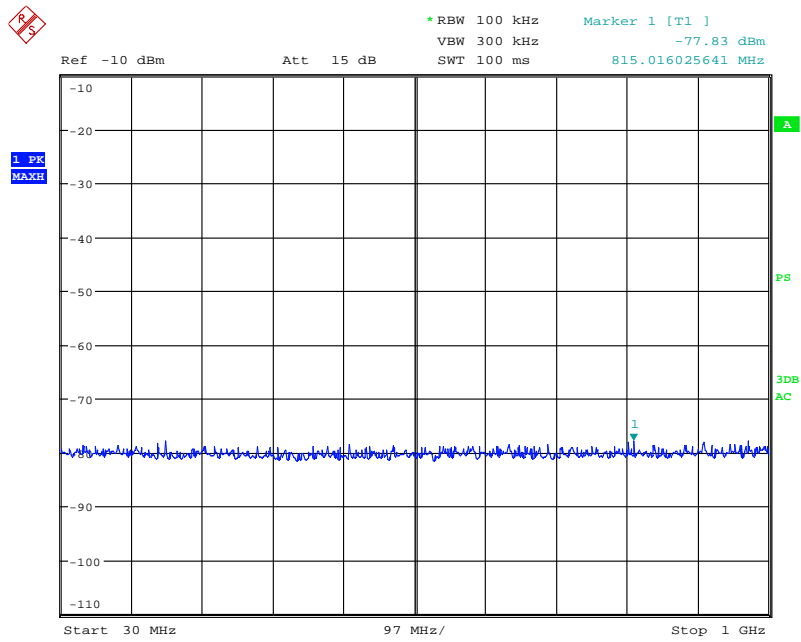
Date: 25.MAR.2013 13:39:43



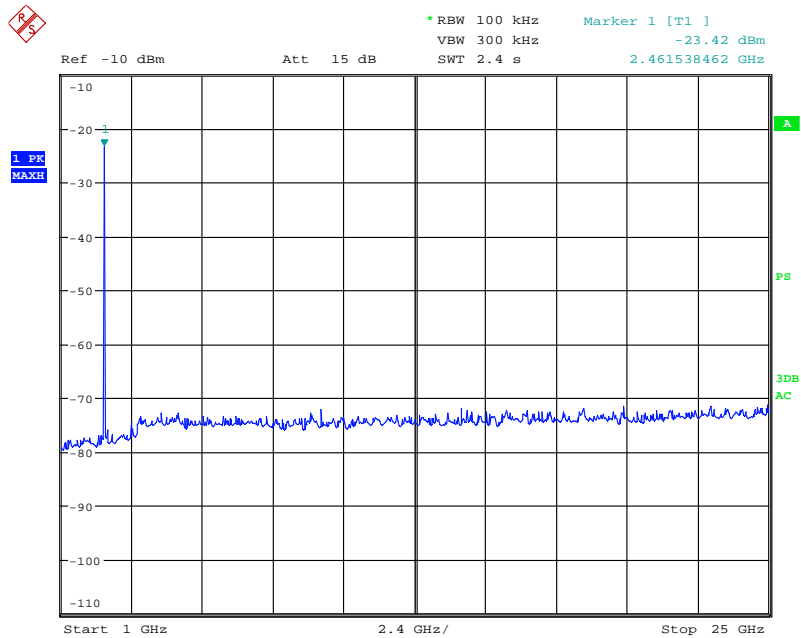
Date: 25.MAR.2013 13:39:20



Conducted Spurious Emission – Channel 26



Date: 25.MAR.2013 13:37:37



Date: 25.MAR.2013 13:36:55



3.7 Power Spectral Density

Performance Criterion: The power spectral density shall not be greater than 8 dBm in any 3 kHz band.

Test Results: Complies

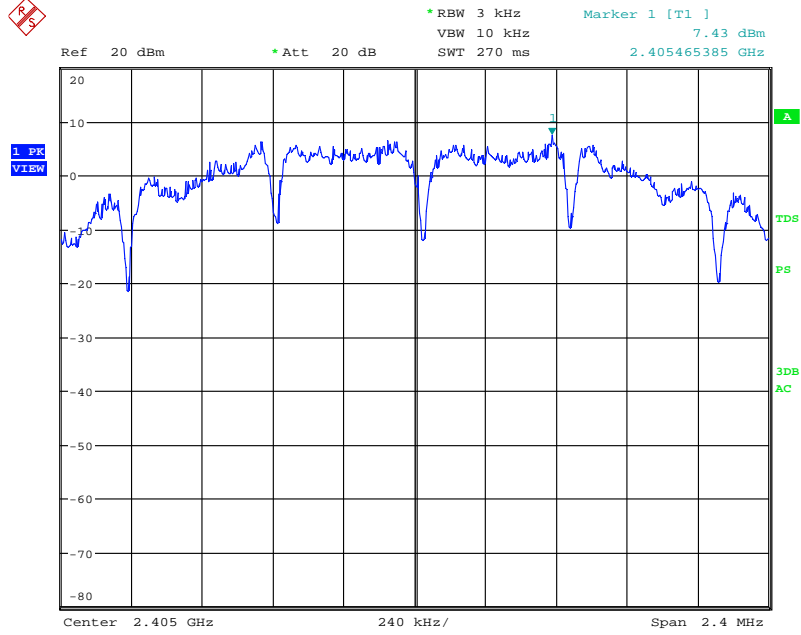
Test Details: The EUT was tested in a continuous transmit mode with maximum power levels. Refers to the following table and receiver screen captures. The insertion loss was compensated for in the receiver.



| Channel | Frequency (MHz) | Power Spectral Density (dBm) |
|---------|-----------------|------------------------------|
| 11 | 2405 | 7.43 |
| 18 | 2440 | 6.94 |
| 26 | 2480 | -12.66 |

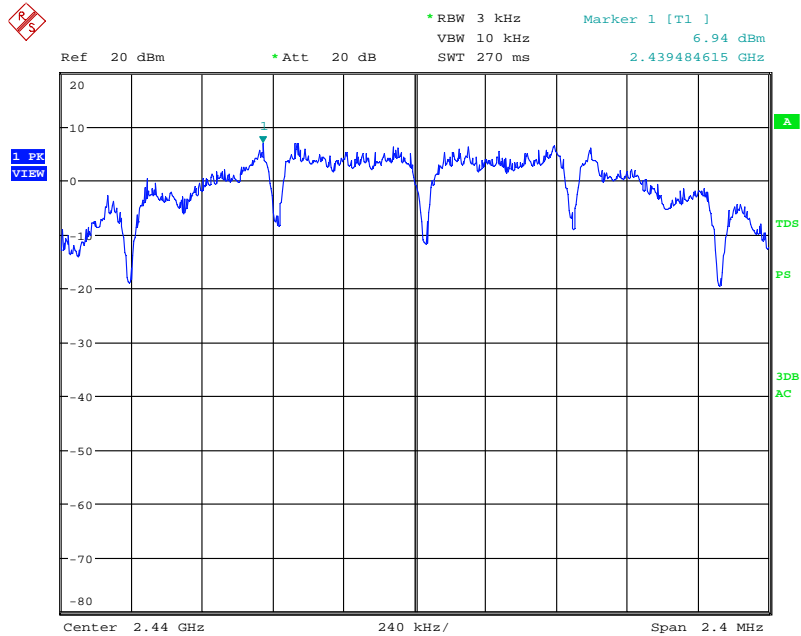


Power Spectral Density, Channel 11:



Date: 25.MAR.2013 13:30:12

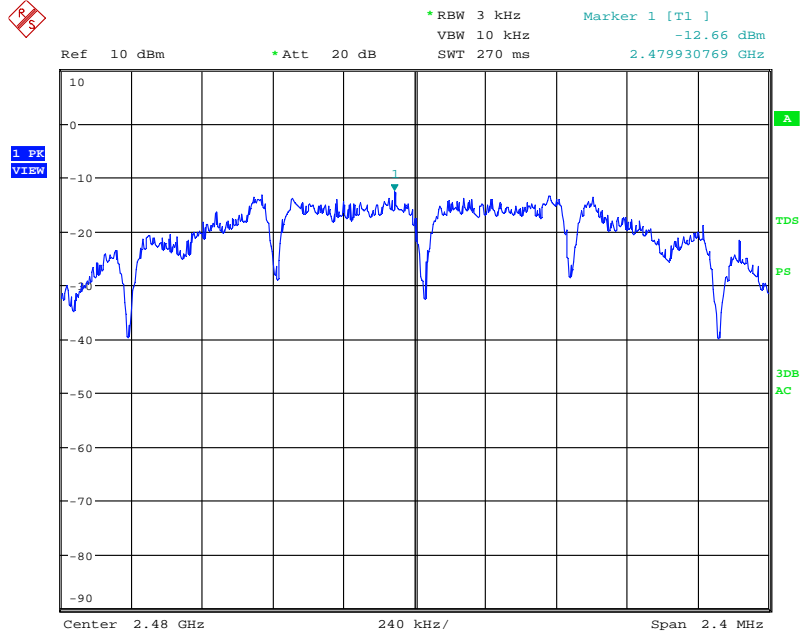
Power Spectral Density, Channel 18:



Date: 25.MAR.2013 13:28:32



Power Spectral Density, Channel 26:



Date: 25.MAR.2013 13:26:40

3.8 Radiated Spurious Emissions

Performance Criterion: Radiated spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified in FCC § 15.209(a) and Table 2 of IC RSS-Gen.

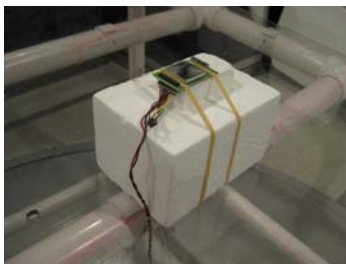
Test Results: Complies

Test Details: Radiated spurious emission was performed from 30 MHz to the tenth harmonics of the carrier. For each scan of radiated emission measurement, the procedures for maximizing emissions were followed. The EUT was rotated and antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. All radiated emission measurements, up to 18 GHz, were performed at 3-meter distance between an antenna and the EUT. All radiated emission measurements, above 18 GHz, were performed at 0.3-meter distance between an antenna and the EUT.

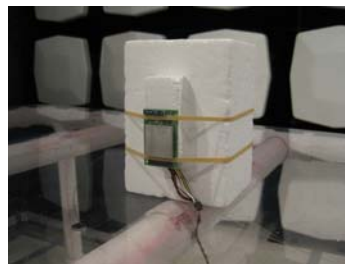
The peak level of radiated emissions above 1 GHz was measured with a resolution bandwidth (RBW) of 1 MHz and a video bandwidth (VBW) of 3 MHz.

For harmonics/spurs that fall in the restricted band, the radiated spurious emissions above 1 GHz were measured with RBW of 1 MHz, VBW of 10 Hz, and Sweep of Auto. The unit was configured for continuous operation.

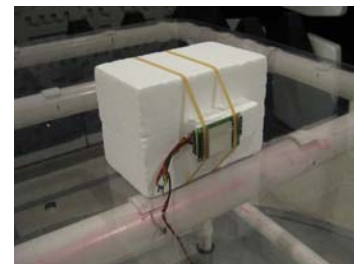
EUT was tested in three orthogonal orientations (XY, YZ, and ZX planes) with antenna at 0 and 90 positions. All combinations of device orientation and antenna orientation were tested and XY-0 was worst case and presented herein



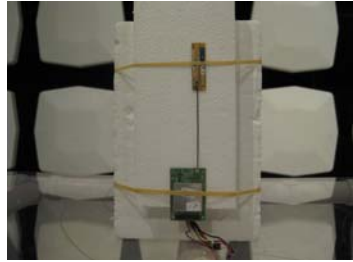
EUT = XY



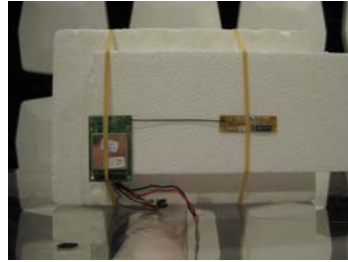
EUT = YZ



EUT = ZX

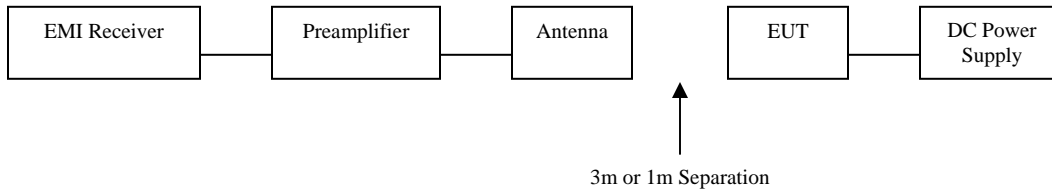


Ant. = 0



Ant. = 90

Refers to the following block diagram and data table for test data. Antenna factor, cable loss, and preamplifier gain were compensated for in the receiver. A factor of 20 dB/decade applies to measurements made at a closer distance than the limit distance before comparing to the limits. Calculation of duty cycle correction factor is included in the Theory of Operation.



| CWD07234 Radiated Spurious Emissions, Boost Mode, Onboard Antenna | | | | | | | | | | | | |
|---|-----------------|-------------|-----------------------|-----------------|------------------------|-----------------------------------|----------------|----------------|-------------|---------------------|------------------|----------|
| Antenna Polarization | Frequency (MHz) | Channel No. | Power Setting (Level) | EUT Orientation | Measured Data (dBuV/m) | Duty Cycle Correction Factor (dB) | Corrected Data | Limit (dBuV/m) | Margin (dB) | Antenna Height (cm) | Turntable Degree | Detector |
| H | 2405 | 11 | 0 | XY | 116.67 | - | - | - | - | 158.8 | 269.2 | AVE |
| H | 2405 | 11 | 0 | XY | 119.62 | - | - | - | - | 158.8 | 269.2 | PK |
| H | 2390 | 11 | 0 | XY | 53.07 | 14.76 | 38.31 | 54 | 15.69 | 158.8 | 269.2 | AVE |
| H | 2390 | 11 | 0 | XY | 65.40 | 0 | 65.40 | 74 | 8.60 | 158.8 | 269.2 | PK |
| H | 4810 | 11 | 0 | XY | 52.96 | 14.76 | 38.20 | 54 | 15.80 | 127.5 | 261.3 | AVE |
| H | 4810 | 11 | 0 | XY | 62.94 | 0 | 62.94 | 74 | 11.06 | 127.5 | 261.3 | PK |
| H | 12025 | 11 | 0 | XY | 59.97 | 14.76 | 45.21 | 54 | 8.79 | 148.1 | 305.9 | AVE |
| H | 12025 | 11 | 0 | XY | 71.48 | 0 | 71.48 | 74 | 2.52 | 148.1 | 305.9 | PK |
| H | 19240* | 11 | 0 | XY | 36.37 | 14.76 | 21.61 | 54 | 32.39 | 100.0 | 0.0 | AVE |
| H | 19240* | 11 | 0 | XY | 50.91 | 0 | 50.91 | 74 | 23.09 | 100.0 | 0.0 | PK |
| H | 2440 | 18 | 0 | XY | 118.69 | - | - | - | - | 157.7 | 269.2 | AVE |
| H | 2440 | 18 | 0 | XY | 121.64 | - | - | - | - | 157.7 | 269.2 | PK |
| H | 4880 | 18 | 0 | XY | 56.22 | 14.76 | 41.46 | 54 | 12.54 | 123.6 | 339.9 | AVE |
| H | 4880 | 18 | 0 | XY | 64.99 | 0 | 64.99 | 74 | 9.01 | 123.6 | 339.9 | PK |
| H | 7320 | 18 | 0 | XY | 55.40 | 14.76 | 40.64 | 54 | 13.36 | 103.7 | 217.0 | AVE |
| H | 7320 | 18 | 0 | XY | 67.09 | 0 | 67.09 | 74 | 6.91 | 103.7 | 217.0 | PK |
| H | 12200 | 18 | 0 | XY | 59.25 | 14.76 | 44.49 | 54 | 9.51 | 100.0 | 352.4 | AVE |
| H | 12200 | 18 | 0 | XY | 70.87 | 0 | 70.87 | 74 | 3.13 | 100.0 | 352.4 | PK |
| H | 19520* | 18 | 0 | XY | 32.28 | 14.76 | 17.52 | 54 | 36.48 | 100.0 | 0.0 | AVE |
| H | 19520* | 18 | 0 | XY | 45.54 | 0 | 45.54 | 74 | 28.46 | 100.0 | 0.0 | 90.0 |
| H | 2480 | 26 | -20 | XY | 98.89 | - | - | - | - | 122.7 | 279.1 | 90.0 |
| H | 2480 | 26 | -20 | XY | 101.29 | - | - | - | - | 122.7 | 279.1 | PK |
| H | 2483.5 | 26 | -20 | XY | 62.62 | 14.76 | 47.86 | 54 | 6.14 | 122.7 | 279.1 | AVE |
| H | 2483.5 | 26 | -20 | XY | 72.96 | 0 | 72.96 | 74 | 1.04 | 122.7 | 279.1 | PK |
| H | 2483.5 | 25 | -4 | XY | 60.71 | 14.76 | 45.95 | 54 | 8.05 | 187.2 | 265.0 | AVE |
| H | 2483.5 | 25 | -4 | XY | 73.90 | 0 | 73.90 | 74 | 0.1 | 187.2 | 265.0 | PK |
| H | 2483.5 | 24 | 0 | XY | 55.90 | 14.76 | 41.14 | 54 | 12.86 | 187.2 | 265.0 | AVE |
| H | 2483.5 | 24 | 0 | XY | 68.81 | 0 | 68.81 | 74 | 5.19 | 187.2 | 265.0 | PK |
| H | 4960 | 26 | -20 | XY | 36.85 | 14.76 | 22.09 | 54 | 31.91 | 121.0 | 325.0 | AVE |
| H | 4960 | 26 | -20 | XY | 49.72 | 0 | 49.72 | 74 | 24.28 | 121.0 | 325.0 | PK |
| H | 7440 (NF) | 26 | -20 | XY | 36.39 | 14.76 | 21.63 | 54 | 32.37 | - | - | AVE |
| H | 7440 (NF) | 26 | -20 | XY | 49.07 | 0 | 49.07 | 74 | 24.93 | - | - | PK |
| H | 12400 (NF) | 26 | -20 | XY | 42.16 | 14.76 | 27.40 | 54 | 26.60 | - | - | AVE |
| H | 12400 (NF) | 26 | -20 | XY | 54.99 | 0 | 54.99 | 74 | 19.01 | - | - | PK |
| H | 19840 (NF)* | 26 | -20 | XY | 22.98 | 14.76 | 8.22 | 54 | 45.78 | - | - | AVE |
| H | 19840 (NF)* | 26 | -20 | XY | 38.14 | 0 | 38.14 | 74 | 35.86 | - | - | PK |
| H | 22320 (NF)* | 26 | -20 | XY | 25.05 | 14.76 | 10.29 | 54 | 43.71 | - | - | AVE |
| H | 22320 (NF)* | 26 | -20 | XY | 38.55 | 0 | 38.55 | 74 | 35.45 | - | - | PK |

NF: Noise Floor
 *: Tested at 1m

Tested: March 21-25, 2013
 Tested by: Grace Lin



| CWD07234 Radiated Spurious Emissions, Boost Mode, External Antenna | | | | | | | | | | | | | |
|--|-----------------|-------------|-----------------------|-----------------|---------------------|------------------------|-----------------------------------|----------------|----------------|-------------|---------------------|------------------|----------|
| Antenna Polarization | Frequency (MHz) | Channel No. | Power Setting (Level) | EUT Orientation | EUT Ant Orientation | Measured Data (dBuV/m) | Duty Cycle Correction Factor (dB) | Corrected Data | Limit (dBuV/m) | Margin (dB) | Antenna Height (cm) | Turntable Degree | Detector |
| H | 2405 | 11 | 0 | XY | 0 | 109.31 | - | - | - | - | 157.3 | 317.0 | AVE |
| H | 2405 | 11 | 0 | XY | 0 | 113.08 | - | - | - | - | 157.3 | 317.0 | PK |
| H | 2390 | 11 | 0 | XY | 0 | 49.41 | 14.76 | 34.65 | 54 | 19.35 | 157.3 | 317.0 | AVE |
| H | 2390 | 11 | 0 | XY | 0 | 61.53 | 0 | 61.53 | 74 | 12.47 | 157.3 | 317.0 | PK |
| H | 4810 | 11 | 0 | XY | 0 | 40.88 | 14.76 | 26.12 | 54 | 27.88 | 109.0 | 127.0 | AVE |
| H | 4810 | 11 | 0 | XY | 0 | 53.25 | 0 | 53.25 | 74 | 20.75 | 109.0 | 127.0 | PK |
| H | 12025 | 11 | 0 | XY | 0 | 55.05 | 14.76 | 40.29 | 54 | 13.71 | 162.1 | 127.0 | AVE |
| H | 12025 | 11 | 0 | XY | 0 | 66.53 | 0 | 66.53 | 74 | 7.47 | 162.1 | 127.0 | PK |
| H | 19240* | 11 | 0 | XY | 0 | 32.00 | 14.76 | 17.24 | 54 | 36.76 | 100.0 | 0.0 | AVE |
| H | 19240* | 11 | 0 | XY | 0 | 44.44 | 0 | 44.44 | 74 | 29.56 | 100.0 | 0.0 | PK |
| H | 2440 | 18 | 0 | XY | 0 | 111.45 | - | - | - | - | 151.9 | 317.0 | AVE |
| H | 2440 | 18 | 0 | XY | 0 | 114.56 | - | - | - | - | 151.9 | 317.0 | PK |
| H | 4880 | 18 | 0 | XY | 0 | 52.92 | 14.76 | 38.16 | 54 | 15.84 | 117.5 | 337.8 | AVE |
| H | 4880 | 18 | 0 | XY | 0 | 62.36 | 0 | 62.36 | 74 | 11.64 | 117.5 | 337.8 | PK |
| H | 7320 | 18 | 0 | XY | 0 | 58.33 | 14.76 | 43.57 | 54 | 10.43 | 162.2 | 222.7 | AVE |
| H | 7320 | 18 | 0 | XY | 0 | 69.88 | 0 | 69.88 | 74 | 4.12 | 162.2 | 222.7 | PK |
| H | 12200 | 18 | 0 | XY | 0 | 59.74 | 14.76 | 44.98 | 54 | 9.02 | 167.4 | 231.3 | AVE |
| H | 12200 | 18 | 0 | XY | 0 | 71.40 | 0 | 71.40 | 74 | 2.60 | 167.4 | 231.3 | PK |
| H | 19520* | 18 | 0 | XY | 0 | 30.35 | 14.76 | 15.59 | 54 | 38.41 | 100.0 | 0.0 | AVE |
| H | 19520* | 18 | 0 | XY | 0 | 44.23 | 0 | 44.23 | 74 | 29.77 | 100.0 | 0.0 | 90.0 |
| H | 2480 | 26 | -20 | XY | 0 | 95.74 | - | - | - | - | 148.4 | 256.2 | AVE |
| H | 2480 | 26 | -20 | XY | 0 | 98.54 | - | - | - | - | 148.4 | 256.2 | PK |
| H | 2483.5 | 26 | -20 | XY | 0 | 60.91 | 14.76 | 46.15 | 54 | 7.85 | 148.4 | 256.2 | AVE |
| H | 2483.5 | 26 | -20 | XY | 0 | 72.37 | 0 | 72.37 | 74 | 1.63 | 148.4 | 256.2 | PK |
| H | 2483.5 | 25 | -4 | XY | 0 | 58.80 | 14.76 | 44.04 | 54 | 9.96 | 148.4 | 256.2 | AVE |
| H | 2483.5 | 25 | -4 | XY | 0 | 71.79 | 0 | 71.79 | 74 | 2.21 | 148.4 | 256.2 | PK |
| H | 2483.5 | 24 | 0 | XY | 0 | 52.35 | 14.76 | 37.59 | 54 | 16.41 | 148.4 | 256.2 | AVE |
| H | 2483.5 | 24 | 0 | XY | 0 | 64.84 | 0 | 64.84 | 74 | 9.16 | 148.4 | 256.2 | PK |
| H | 4960 | 26 | -20 | XY | 0 | 36.15 | 14.76 | 21.39 | 54 | 32.61 | 117.4 | 332.6 | AVE |
| H | 4960 | 26 | -20 | XY | 0 | 50.79 | 0 | 50.79 | 74 | 23.21 | 117.4 | 332.6 | PK |
| H | 7440 (NF) | 26 | -20 | XY | 0 | 36.39 | 14.76 | 21.63 | 54 | 32.37 | - | - | AVE |
| H | 7440 (NF) | 26 | -20 | XY | 0 | 49.07 | 0 | 49.07 | 74 | 24.93 | - | - | PK |
| H | 12400 (NF) | 26 | -20 | XY | 0 | 42.16 | 14.76 | 27.40 | 54 | 26.60 | - | - | AVE |
| H | 12400 (NF) | 26 | -20 | XY | 0 | 54.99 | 0 | 54.99 | 74 | 19.01 | - | - | PK |
| H | 19840 (NF)* | 26 | -20 | XY | 0 | 22.98 | 14.76 | 8.22 | 54 | 45.78 | - | - | AVE |
| H | 19840 (NF)* | 26 | -20 | XY | 0 | 38.14 | 0 | 38.14 | 74 | 35.86 | - | - | PK |
| H | 22320 (NF)* | 26 | -20 | XY | 0 | 25.05 | 14.76 | 10.29 | 54 | 43.71 | - | - | AVE |
| H | 22320 (NF)* | 26 | -20 | XY | 0 | 38.55 | 0 | 38.55 | 74 | 35.45 | - | - | PK |

NF: Noise Floor

Tested: March 21-25, 2013

*: Tested at 1m

Tested by: Grace Lin

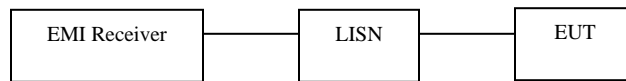


3.9 *Transmitter AC Power Line Conducted Emissions*

Performance Criterion: AC power line conducted emissions shall not exceed the limits specified in FCC § 15.207 and Table 4 of IC RSS-Gen.

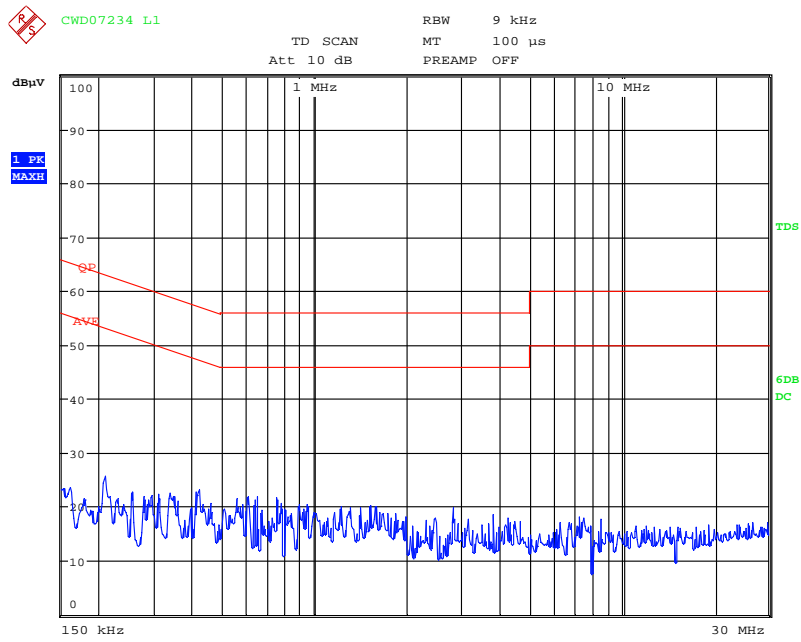
Test Results: Complies.

Test Details: AC power line conducted emissions were performed from 150 kHz to 30 MHz and measured with a resolution bandwidth of 9 kHz. EUT was set in the receiving mode. Refers to the following screen captures (using a peak detector) and block diagram.



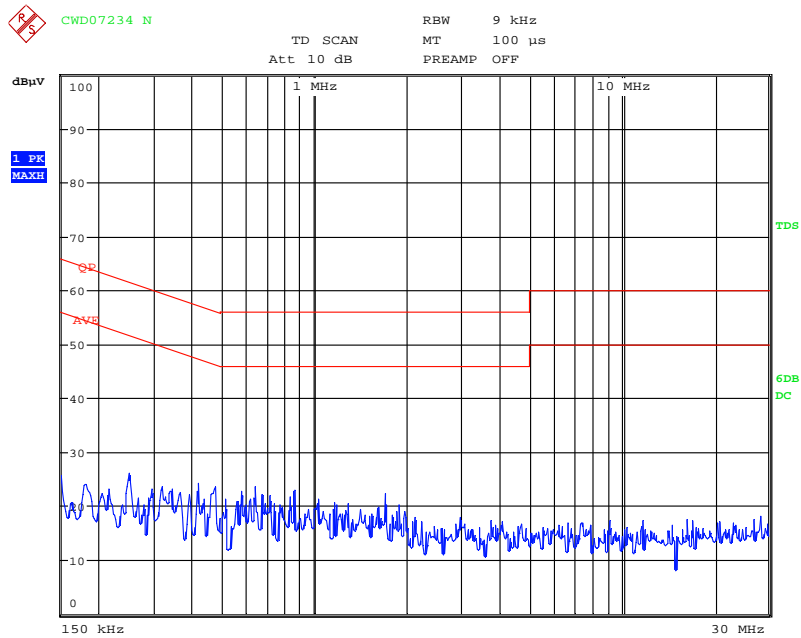


L1:



Date: 22.MAR.2013 15:08:17

N:



Date: 22.MAR.2013 15:09:59