

FCC PART 15.247 TEST REPORT

For

Coby Communications Ltd.

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FCC ID: S7IMID7048-7046

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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

TABLE OF CONTENTS

GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
RELATED SUBMITTAL(S)/GRANT(S).....	4
TEST METHODOLOGY	4
TEST FACILITY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EUT EXERCISE SOFTWARE	6
EQUIPMENT MODIFICATIONS	6
SUPPORT EQUIPMENT LIST AND DETAILS	7
EXTERNAL CABLE.....	7
EUT	7
EUT	7
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULTS	8
FCC §15.247 (i) & §2.1093 - RF EXPOSURE EVALUATION.....	9
APPLICABLE STANDARD	9
FCC §15.203 - ANTENNA REQUIREMENT.....	10
APPLICABLE STANDARD	10
ANTENNA CONNECTOR CONSTRUCTION	10
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	11
APPLICABLE STANDARD	11
MEASUREMENT UNCERTAINTY	11
EUT SETUP	11
EMI TEST RECEIVER SETUP.....	12
TEST PROCEDURE	12
TEST EQUIPMENT LIST AND DETAILS.....	12
TEST RESULTS SUMMARY	12
TEST DATA	12
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS.....	15
APPLICABLE STANDARD	15
MEASUREMENT UNCERTAINTY	15
EUT SETUP	15
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	16
TEST PROCEDURE	16
CORRECTED AMPLITUDE & MARGIN CALCULATION	16
TEST EQUIPMENT LIST AND DETAILS.....	17
TEST RESULTS SUMMARY	17
TEST DATA	17
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH.....	28
APPLICABLE STANDARD	28
TEST PROCEDURE	28
TEST EQUIPMENT LIST AND DETAILS.....	28

TEST DATA	28
FCC §15.247(b) (3) - MAXIMUM PEAK OUTPUT POWER	36
APPLICABLE STANDARD	36
TEST PROCEDURE	36
TEST EQUIPMENT LIST AND DETAILS.....	36
TEST DATA	36
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE.....	44
APPLICABLE STANDARD	44
TEST PROCEDURE	44
TEST EQUIPMENT LIST AND DETAILS.....	44
TEST DATA	44
FCC §15.247(e) - POWER SPECTRAL DENSITY	49
APPLICABLE STANDARD	49
TEST PROCEDURE	49
TEST EQUIPMENT LIST AND DETAILS.....	49
TEST DATA	49
DECLARATION LETTER.....	57

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Coby Communications Ltd.*'s product, model number: MID7046, MID7047, MID7048, MID7050, MID7051 (FCC ID: S7IMID7048-7046) or ("EUT") in this report is a Mobile Internet Device, which was measured approximately: 19.7 cm (L) x11.7cm (W) x0.8cm (H), rated input voltage: DC 5V from adapter or DC 3.7V from lithium battery.

Adapter Information: FLYPOWER
MODEL: PS14K0502000U5
INPUT: 100-240V, 50/60Hz, 0.35A
OUTPUT: 5.0V, 2000mA

Note: model MID7046, MID7047, MID7048, MID7050, MID7051, the difference are the model name, DDR capacity, camera, HDMI port and the touch panel. We selected MID7048 with camera and HDMI port for fully testing and others for Spurious Emissions 30-1000MHz testing, the details was explained in the attached declaration letter.

** All measurement and test data in this report was gathered from production sample serial number: 120904009 (Assigned by BACL, Dongguan). The EUT was received on 2012-10-10.*

Objective

This report is prepared on behalf of *Coby Communications Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine the compliance of the EUT with FCC Part 15-Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

No related submittal(s).

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

The uncertainty of any RF tests which use conducted method measurement is ± 0.96 dB, the uncertainty of any radiation on emissions measurement is ± 4.0 dB

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b and 802.11g, 802.11n20 mode, 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

EUT for 802.11b, 802.11g and 802.11 n20 modes were tested with Channel 1, 6 and 11.

For 802.11n40 mode, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2422	6	2447
2	2427	7	2452
3	2432	/	/
4	2437	/	/
5	2442	/	/

EUT was tested with Channel 1, 4 and 7.

The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates bandwidths, and modulations.

EUT Exercise Software

The test was performed under “*RFtest*”, which was provided by the manufacturer.

Equipment Modifications

No modification was made to the EUT tested.

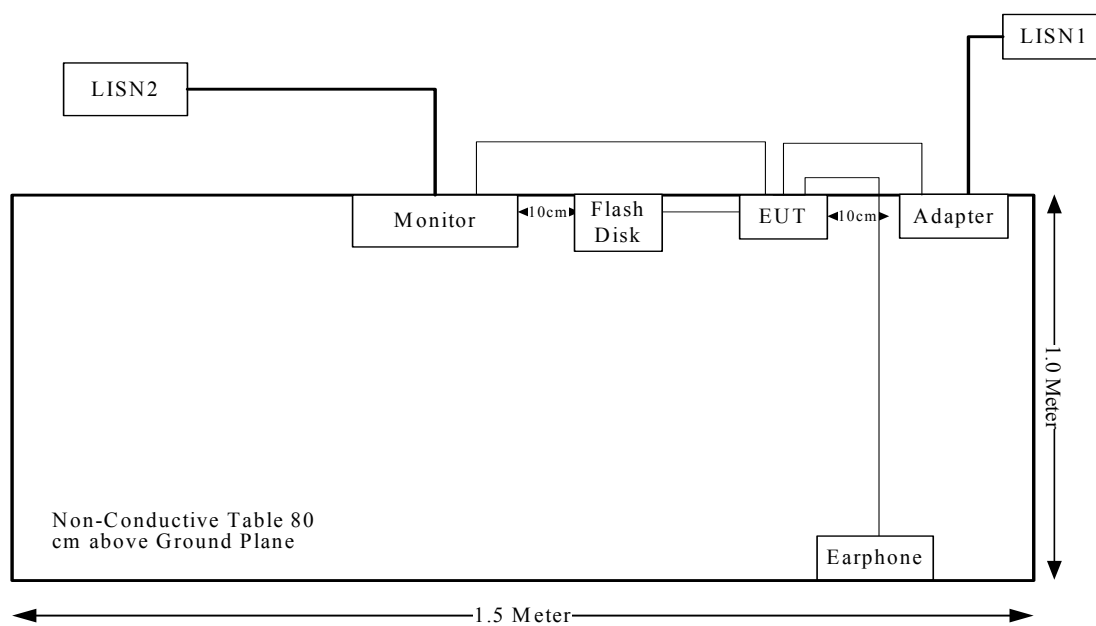
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	Monitor	U3011t	CN-OPH5NY-74445-16T-290L
Kingston	Flash Disk	DT101	N/A

External Cable

Cable Description	Length (m)	From Port	To
Shielded Detachable HDMI Cable	1.8	HDMI Port of Monitor	EUT
Shielded Detachable USB cable	0.12	Flash Disk	EUT

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure Evaluation	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(d)	Spurious Emissions at Antenna Port	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Peak Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

FCC §15.247 (i) & §2.1093 - RF EXPOSURE EVALUATION

Applicable Standard

According to FCC §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 Mobile Portable RF Exposure v03r03, no SAR required if power is lower than the flowing threshold:

When routine evaluation is required for SAR and the output power is $\leq 60/f(\text{GHz})$ mW, the test reduction and test exclusion procedures given herein, or in KDB 616217 or KDB 648474, are applicable.

A device may be used in portable exposure conditions with no restrictions on host platforms when either the source-based time-averaged output power is $\leq 60/f(\text{GHz})$ mW or all measured 1-g SAR are < 0.4 W/kg.10 When SAR evaluation is required, the most conservative exposure conditions for all expected operating configurations must be tested.

Measurement Result

Conducted output power=7.89 dBm

SAR exclusion threshold= $60/f=60/2.468=24.31$ mW = 13.86 dBm > 7.89 dBm

So, the SAR evaluation is not necessary.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
 - b. Antenna must use a unique type of connector to attach to the EUT.
- Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Connector Construction

The EUT has an Internal Antenna soldered on the print circuit board, which complied with 15.203, the maximum gain is 3.0 dBi, please refer to the internal photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

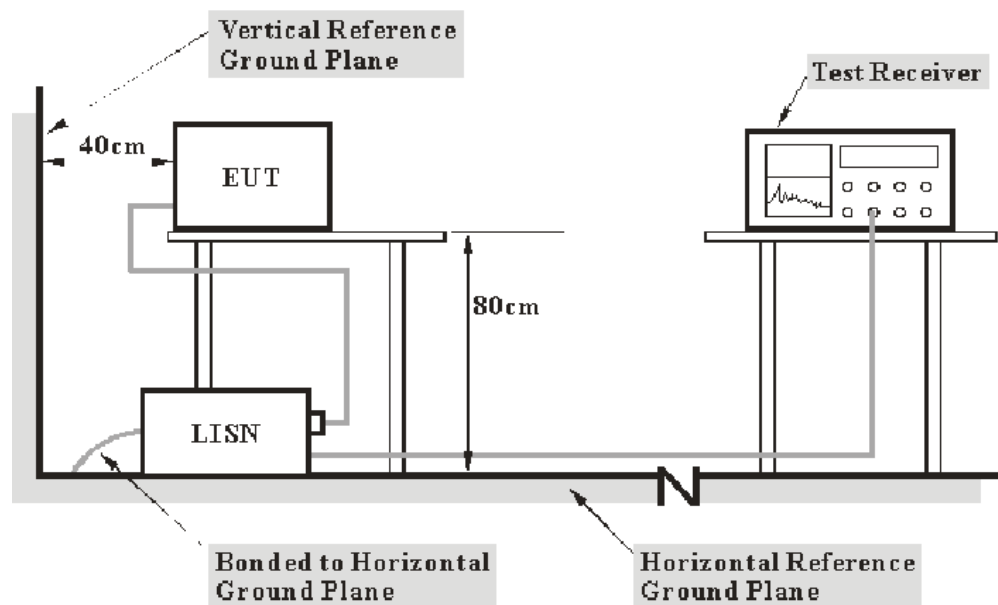
FCC§15.207

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratory Corp. (Dongguan) is ± 2.4 dB ($k=2$, 95% level of confidence), and the uncertainty will not be taken into consideration for all the test data recorded in the report.

EUT Setup



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

<u>Frequency Range</u>	<u>IF B/W</u>
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS 30	830245/006	2011-10-8	2012-10-7
Rohde & Schwarz	LISN	ESH3-Z5	843331/015	2011-10-8	2012-10-7
Rohde & Schwarz	LISN	ESH3-Z5	100113	2011-10-8	2012-10-7

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

22.63 dB at 0.780 MHz in the Line conducted mode.

Test Data

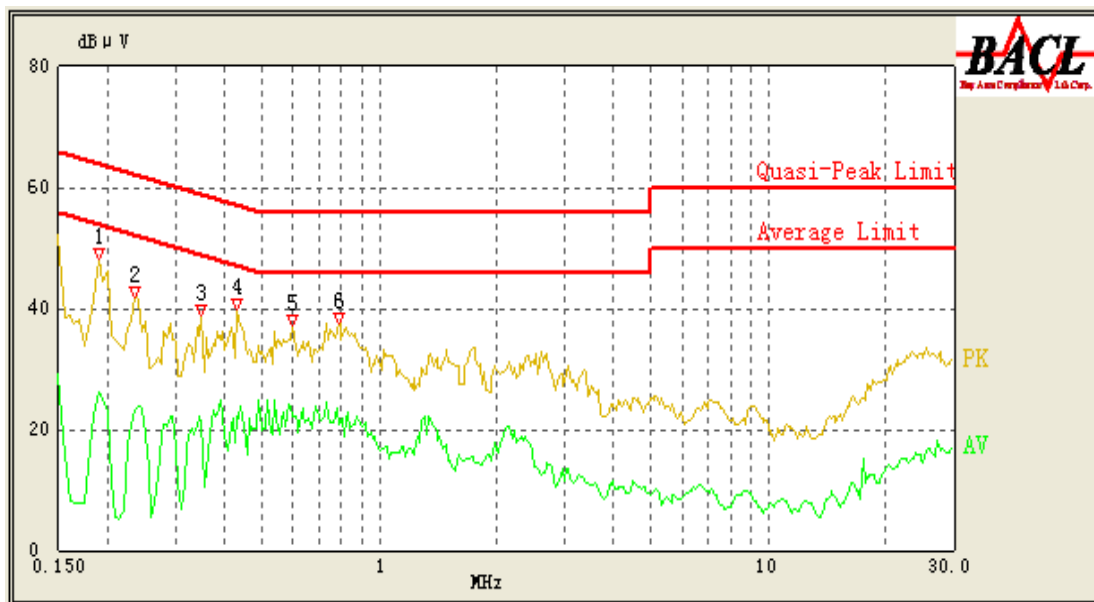
Environmental Conditions

Temperature:	27.8 ° C
Relative Humidity:	66 %
ATM Pressure:	100.5 kPa

The testing was performed by Leon Chen on 2012-09-10.

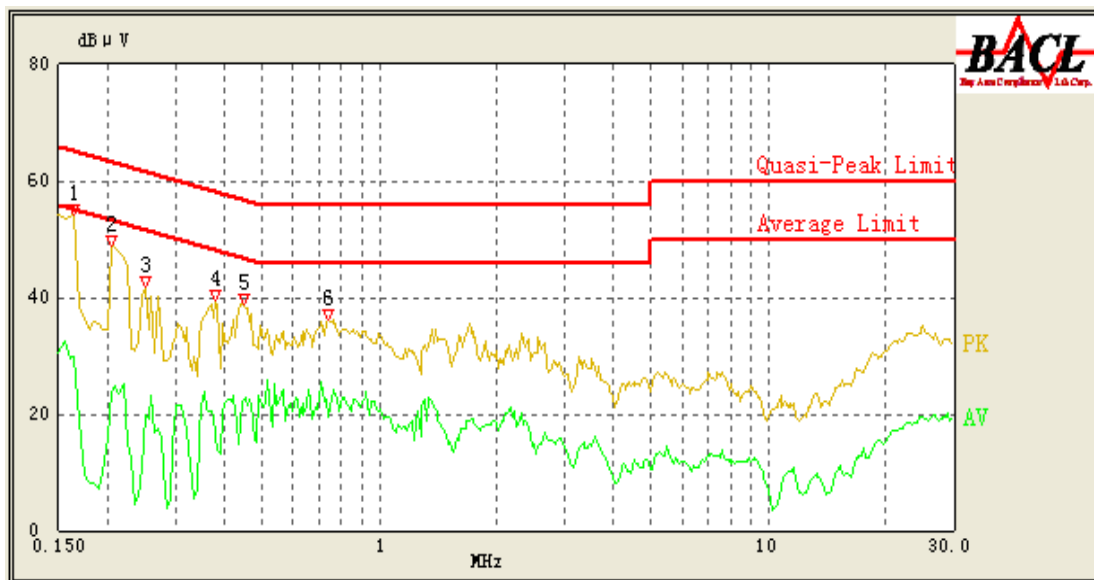
Test Mode: Transmitting

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/ QP/Ave.)
0.780	23.37	0.44	46.00	22.63	Ave.
0.785	33.13	0.44	56.00	22.87	QP
0.600	32.12	0.43	56.00	23.88	QP
0.595	22.01	0.43	46.00	23.99	Ave.
0.190	40.51	0.42	64.86	24.35	QP
0.430	33.44	0.42	58.00	24.56	QP
0.430	22.03	0.42	48.00	25.97	Ave.
0.350	32.88	0.42	60.29	27.41	QP
0.190	26.13	0.42	54.86	28.73	Ave.
0.350	21.53	0.42	50.29	28.76	Ave.
0.235	34.12	0.42	63.57	29.45	QP
0.235	23.28	0.42	53.57	30.29	Ave.

AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/ QP/Ave.)
0.380	35.21	0.42	59.43	24.22	QP
0.450	33.21	0.42	57.43	24.22	QP
0.740	30.84	0.44	56.00	25.16	QP
0.445	22.14	0.42	47.57	25.43	Ave.
0.165	29.70	0.41	55.57	25.87	Ave.
0.740	19.61	0.44	46.00	26.39	Ave.
0.205	23.79	0.42	54.43	30.64	Ave.
0.250	31.24	0.42	63.14	31.90	QP
0.380	16.30	0.42	49.43	33.13	Ave.
0.250	19.92	0.42	53.14	33.22	Ave.
0.165	31.22	0.41	65.57	34.35	QP
0.205	28.93	0.42	64.43	35.50	QP

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

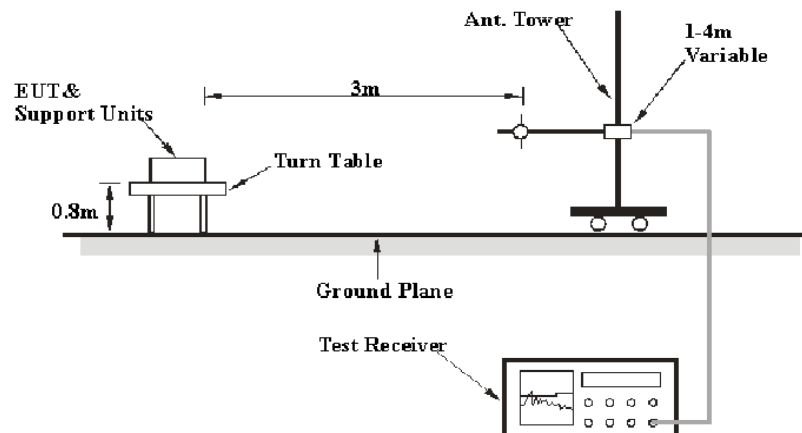
Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

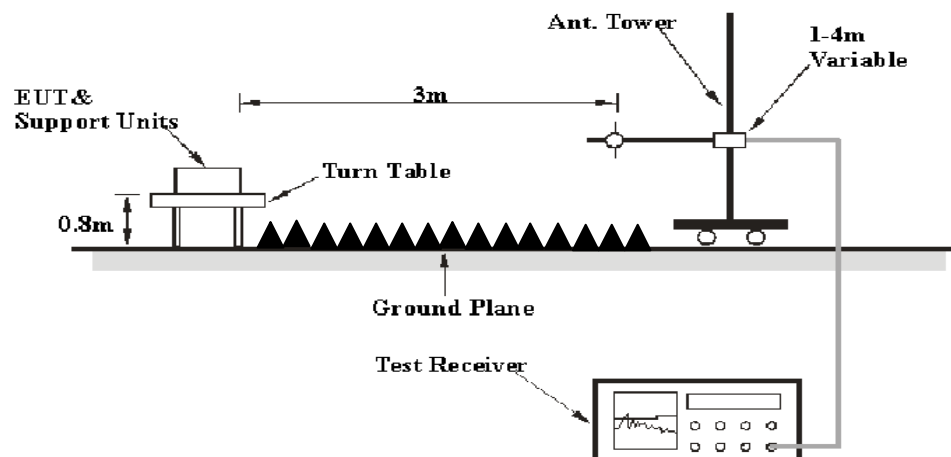
Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Dongguan) is 4.0 dB(k=2, 95% level of confidence) , and the uncertainty will not be taken into consideration for all the test data recorded in the report.

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

<i>Frequency Range</i>	<i>RBW</i>	<i>Video B/W</i>	<i>Detector</i>
30 MHz – 1000 MHz	100 kHz	300 kHz	QP
1000 MHz – 25 GHz	1 MHz	3 MHz	PK
1000 MHz – 25 GHz	1 MHz	10 Hz	Ave.

Test Procedure

During the radiated emission test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	101121	2011-10-8	2012-10-7
Sunol Sciences	Hybrid Antennas	JB3	A060611-1	2011-9-6	2013-9-5
HP	Pre-amplifier	8447E	2434A02181	2011-10-8	2012-10-7
Rohde & Schwarz	Spectrum Analyzer	FSEM 30	1079 8500	2011-10-9	2012-10-8
Dayang	Horn Antenna	OMCDH10180	10279001B	2010-7-30	2015-7-29
Mini-Circuits	Wideband Amplifier	ZVA-183-S+	96901149	N/A	N/A

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Section 15.205, 15.209 and 15.247, with the worst margin reading of:

2.49 dB at 4824 MHz in the Vertical polarization (802.11b mode)

Test Data

Environmental Conditions

Temperature:	25.4 ° C
Relative Humidity:	59 %
ATM Pressure:	100.9 kPa

The testing was performed by Leon Chen on 2012-09-07.

Mode: Transmitting (MID7048 was the worst)

802.11b Mode:

Frequency (MHz)	Receiver		Antenna		Cable Loss (dB)	Amplifier Gain (dB)	Cord. Amp. (dBμV/m)	Part 15.247/209	
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2412 MHz									
2412	65.39	AV	H	31.11	3.93	0.00	100.42	N/A	N/A
2412	69.87	PK	H	31.11	3.93	0.00	104.90	N/A	N/A
2412	61.65	AV	V	31.11	3.93	0.00	96.68	N/A	N/A
2412	66.34	PK	V	31.11	3.93	0.00	101.37	N/A	N/A
4824	40.76	AV	V	33.21	4.73	27.19	51.51	54.00	2.49 *
2390	15.74	AV	H	30.98	3.84	0.00	50.57	54.00	3.43 *
406.36	44.23	QP	H	16.38	2.45	21.79	41.27	46.00	4.73
7236	28.11	AV	H	38.72	6.56	26.58	46.82	54.00	7.18
2390	28.48	PK	H	30.98	3.84	0.00	63.31	74.00	10.69
9648	17.03	AV	H	38.60	8.70	26.43	37.90	54.00	16.10
7236	36.84	PK	H	38.72	6.56	26.58	55.55	74.00	18.45
4824	44.77	PK	V	33.21	4.73	27.19	55.52	74.00	18.48
9648	33.14	PK	H	38.60	8.70	26.43	54.01	74.00	19.99
2501.6	26.12	AV	V	31.60	3.70	27.81	33.60	54.00	20.40
2501.6	38.26	PK	V	31.60	3.70	27.81	45.74	74.00	28.26
Middle Channel: 2437 MHz									
2437	64.96	AV	H	31.25	3.98	0.00	100.19	N/A	N/A
2437	69.24	PK	H	31.25	3.98	0.00	104.47	N/A	N/A
2437	61.12	AV	V	31.25	3.98	0.00	96.35	N/A	N/A
2437	65.94	PK	V	31.25	3.98	0.00	101.17	N/A	N/A
4874	39.94	AV	V	33.32	4.76	27.03	51.00	54.00	3.00 *
7311	28.94	AV	H	38.86	6.70	26.65	47.85	54.00	6.15
406.36	42.16	QP	H	16.38	2.45	21.79	39.20	46.00	6.80
9748	18.02	AV	H	38.80	8.60	26.53	38.89	54.00	15.11
2503.6	30.88	AV	V	31.59	3.70	27.82	38.36	54.00	15.64
7311	36.81	PK	H	38.86	6.70	26.65	55.72	74.00	18.28
4874	43.51	PK	V	33.32	4.76	27.03	54.57	74.00	19.43
3741.5	24.93	AV	V	32.13	4.72	27.36	34.43	54.00	19.57
9748	32.92	PK	H	38.80	8.60	26.53	53.79	74.00	20.21
2503.6	42.39	PK	V	31.59	3.70	27.82	49.87	74.00	24.13
3741.5	37.99	PK	V	32.13	4.72	27.36	47.49	74.00	26.51
High Channel: 2462 MHz									
2462	64.73	AV	H	31.39	3.93	0.00	100.05	N/A	N/A
2462	68.86	PK	H	31.39	3.93	0.00	104.18	N/A	N/A
2462	60.94	AV	V	31.39	3.93	0.00	96.26	N/A	N/A
2462	65.38	PK	V	31.39	3.93	0.00	100.70	N/A	N/A
4924	39.63	AV	V	33.43	4.70	27.17	50.60	54.00	3.40 *
2483.5	14.93	AV	H	31.51	3.80	0.00	50.23	54.00	3.77 *
406.36	43.68	QP	H	16.38	2.45	21.79	40.72	46.00	5.28
7386	28.6	AV	H	38.99	6.84	26.73	47.71	54.00	6.29
2483.5	28.62	PK	H	31.51	3.80	0.00	63.92	74.00	10.08
2602.2	31.95	AV	V	31.46	3.94	27.67	39.67	54.00	14.33
9848	17.28	AV	H	39.00	8.49	26.63	38.14	54.00	15.86
7386	36.19	PK	H	38.99	6.84	26.73	55.30	74.00	18.70
4924	43.86	PK	V	33.43	4.70	27.17	54.83	74.00	19.17
9848	32.77	PK	H	39.00	8.49	26.63	53.63	74.00	20.37
2602.2	44.87	PK	V	31.46	3.94	27.67	52.59	74.00	21.41

802.11g Mode:

Frequency (MHz)	Receiver		Antenna		Cable Loss (dB)	Amplifier Gain (dB)	Cord. Amp. (dBμV/m)	Part 15.247/209	
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2412 MHz									
2412	57.87	AV	H	31.11	3.93	0.00	92.90	N/A	N/A
2412	69.65	PK	H	31.11	3.93	0.00	104.68	N/A	N/A
2412	56.12	AV	V	31.11	3.93	0.00	91.15	N/A	N/A
2412	68.34	PK	V	31.11	3.93	0.00	103.37	N/A	N/A
406.36	44.15	QP	H	16.38	2.45	21.79	41.19	46.00	4.81
2390	14.26	AV	V	30.98	3.84	0.00	49.09	54.00	4.91
4824	35.18	AV	H	33.21	4.73	27.19	45.93	54.00	8.07
2390	28.67	PK	V	30.98	3.84	0.00	63.50	74.00	10.50
4824	49.13	PK	H	33.21	4.73	27.19	59.88	74.00	14.12
9648	17.66	AV	H	38.60	8.70	26.43	38.53	54.00	15.47
7236	17.86	AV	H	38.72	6.56	26.58	36.57	54.00	17.43
2501.6	26.01	AV	V	31.60	3.70	27.81	33.49	54.00	20.51
9648	32.11	PK	H	38.60	8.70	26.43	52.98	74.00	21.02
7236	32.08	PK	H	38.72	6.56	26.58	50.79	74.00	23.21
2501.6	37.69	PK	V	31.60	3.70	27.81	45.17	74.00	28.83
Middle Channel: 2437 MHz									
2437	59.47	AV	H	31.25	3.98	0.00	94.70	N/A	N/A
2437	70.05	PK	H	31.25	3.98	0.00	105.28	N/A	N/A
2437	58.26	AV	V	31.25	3.98	0.00	93.49	N/A	N/A
2437	69.32	PK	V	31.25	3.98	0.00	104.55	N/A	N/A
406.36	43.03	QP	H	16.38	2.45	21.79	40.07	46.00	5.93
4874	34.87	AV	H	33.32	4.76	27.03	45.93	54.00	8.07
4874	50.13	PK	H	33.32	4.76	27.03	61.19	74.00	12.81
9748	17.33	AV	H	38.80	8.60	26.53	38.20	54.00	15.80
7311	17.94	AV	H	38.86	6.70	26.65	36.85	54.00	17.15
9748	32.64	PK	H	38.80	8.60	26.53	53.51	74.00	20.49
2503.6	25.87	AV	V	31.59	3.70	27.82	33.35	54.00	20.65
7311	32.62	PK	H	38.86	6.70	26.65	51.53	74.00	22.47
3741.5	18.19	AV	V	32.13	4.72	27.36	27.69	54.00	26.31
2503.6	37.94	PK	V	31.59	3.70	27.82	45.42	74.00	28.58
3741.5	32.56	PK	V	32.13	4.72	27.36	42.06	74.00	31.94
High Channel: 2462 MHz									
2462	60.57	AV	H	31.39	3.93	0.00	95.89	N/A	N/A
2462	71.2	PK	H	31.39	3.93	0.00	106.52	N/A	N/A
2462	59.36	AV	V	31.39	3.93	0.00	94.68	N/A	N/A
2462	69.96	PK	V	31.39	3.93	0.00	105.28	N/A	N/A
2483.5	13.68	AV	V	31.51	3.80	0.00	48.98	54.00	5.02
406.36	43.79	QP	H	16.38	2.45	21.79	40.83	46.00	5.17
4924	35.05	AV	H	33.43	4.70	27.17	46.02	54.00	7.98
2483.5	27.54	PK	V	31.51	3.80	0.00	62.84	74.00	11.16
4924	50.12	PK	H	33.43	4.70	27.17	61.09	74.00	12.91
9848	17.52	AV	H	39.00	8.49	26.63	38.38	54.00	15.62
7386	17.94	AV	H	38.99	6.84	26.73	37.05	54.00	16.95
2602.2	27.85	AV	V	31.46	3.94	27.67	35.57	54.00	18.43
9848	31.99	PK	H	39.00	8.49	26.63	52.85	74.00	21.15
7386	32.13	PK	H	38.99	6.84	26.73	51.24	74.00	22.76
2602.2	41.12	PK	V	31.46	3.94	27.67	48.84	74.00	25.16

802.11n20 Mode:

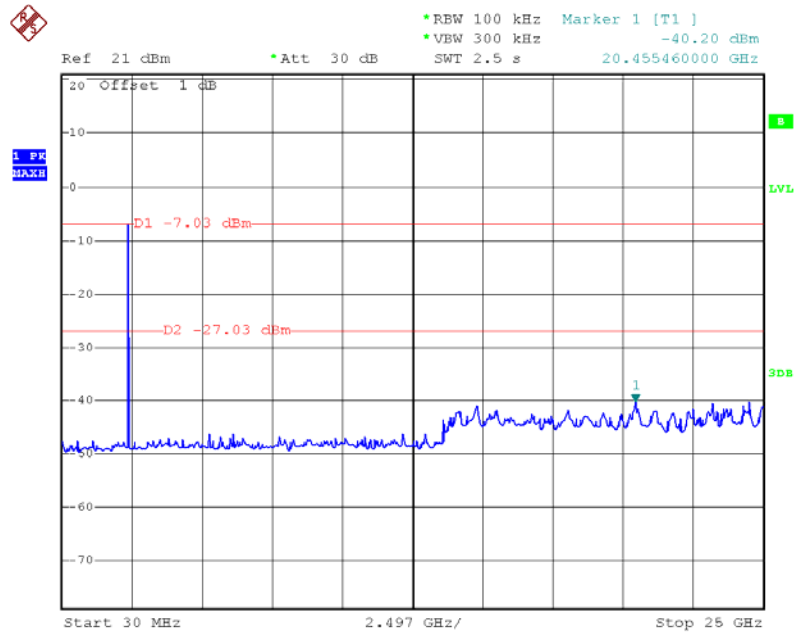
Frequency (MHz)	Receiver		Antenna		Cable Loss (dB)	Amplifier Gain (dB)	Cord. Amp. (dBμV/m)	Part 15.247/209	
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2412 MHz									
2412	56.84	AV	H	31.11	3.93	0.00	91.87	N/A	N/A
2412	68.29	PK	H	31.11	3.93	0.00	103.32	N/A	N/A
2412	54.74	AV	V	31.11	3.93	0.00	89.77	N/A	N/A
2412	65.74	PK	V	31.11	3.93	0.00	100.77	N/A	N/A
406.36	44.27	QP	H	16.38	2.45	21.79	41.31	46.00	4.69
4824	31.57	AV	H	33.21	4.73	27.19	42.32	54.00	11.68
4824	47.76	PK	H	33.21	4.73	27.19	58.51	74.00	15.49
9648	17.58	AV	H	38.60	8.70	26.43	38.45	54.00	15.55
7236	17.72	AV	H	38.72	6.56	26.58	36.43	54.00	17.57
2501.6	26.13	AV	V	31.60	3.70	27.81	33.61	54.00	20.39
9648	32.25	PK	H	38.60	8.70	26.43	53.12	74.00	20.88
7236	31.96	PK	H	38.72	6.56	26.58	50.67	74.00	23.33
2501.6	37.82	PK	V	31.60	3.70	27.81	45.30	74.00	28.70
2390	13.94	AV	V	30.98	3.84	27.83	20.94	54.00	33.06
2390	27.62	PK	V	30.98	3.84	27.83	34.62	74.00	39.38
Middle Channel: 2437 MHz									
2437	57.38	AV	H	31.25	3.98	0.00	92.61	N/A	N/A
2437	68.86	PK	H	31.25	3.98	0.00	104.09	N/A	N/A
2437	55.42	AV	V	31.25	3.98	0.00	90.65	N/A	N/A
2437	66.12	PK	V	31.25	3.98	0.00	101.35	N/A	N/A
406.36	43.36	QP	H	16.38	2.45	21.79	40.40	46.00	5.60
4874	32.15	AV	H	33.32	4.76	27.03	43.21	54.00	10.79
4874	48.23	PK	H	33.32	4.76	27.03	59.29	74.00	14.71
9748	17.46	AV	H	38.80	8.60	26.53	38.33	54.00	15.67
7311	17.83	AV	H	38.86	6.70	26.65	36.74	54.00	17.26
2503.6	26.02	AV	V	31.59	3.70	27.82	33.50	54.00	20.50
9748	32.58	PK	H	38.80	8.60	26.53	53.45	74.00	20.55
7311	32.84	PK	H	38.86	6.70	26.65	51.75	74.00	22.25
3741.5	18.43	AV	V	32.13	4.72	27.36	27.93	54.00	26.07
2503.6	38.12	PK	V	31.59	3.70	27.82	45.60	74.00	28.40
3741.5	32.68	PK	V	32.13	4.72	27.36	42.18	74.00	31.82
High Channel: 2462 MHz									
2462	57.44	AV	H	31.39	3.93	0.00	92.76	N/A	N/A
2462	68.37	PK	H	31.39	3.93	0.00	103.69	N/A	N/A
2462	55.83	AV	V	31.39	3.93	0.00	91.15	N/A	N/A
2462	66.64	PK	V	31.39	3.93	0.00	101.96	N/A	N/A
2483.5	13.31	AV	V	31.51	3.80	0.00	48.61	54.00	5.39
406.36	43.15	QP	H	16.38	2.45	21.79	40.19	46.00	5.81
4924	32.63	AV	H	33.43	4.70	27.17	43.60	54.00	10.40
2483.5	27.34	PK	V	31.51	3.80	0.00	62.64	74.00	11.36
4924	47.84	PK	H	33.43	4.70	27.17	58.81	74.00	15.19
9848	17.38	AV	H	39.00	8.49	26.63	38.24	54.00	15.76
7386	17.43	AV	H	38.99	6.84	26.73	36.54	54.00	17.46
2602.2	25.34	AV	V	31.46	3.94	27.67	33.06	54.00	20.94
9848	31.86	PK	H	39.00	8.49	26.63	52.72	74.00	21.28
7386	32.38	PK	H	38.99	6.84	26.73	51.49	74.00	22.51
2602.2	38.26	PK	V	31.46	3.94	27.67	45.98	74.00	28.02

802.11n40 Mode:

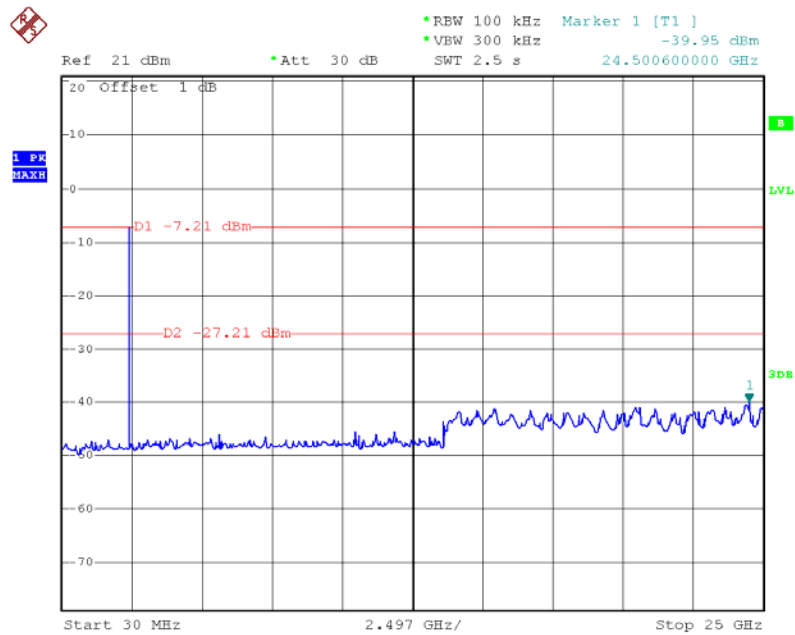
Frequency (MHz)	Receiver		Antenna		Cable Loss (dB)	Amplifier Gain (dB)	Cord. Amp. (dBμV/m)	Part 15.247/209	
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2422 MHz									
2422	54.19	AV	H	31.16	3.95	0.00	89.30	N/A	N/A
2422	65.13	PK	H	31.16	3.95	0.00	100.24	N/A	N/A
2422	51.94	AV	V	31.16	3.95	0.00	87.05	N/A	N/A
2422	52.86	PK	V	31.16	3.95	0.00	87.97	N/A	N/A
2390	14.64	AV	V	30.98	3.84	0.00	49.47	54.00	4.53
406.36	44.36	QP	H	16.38	2.45	21.79	41.40	46.00	4.60
2390	28.73	PK	V	30.98	3.84	0.00	63.56	74.00	10.44
4844	28.38	AV	H	33.26	4.78	27.04	39.38	54.00	14.62
9688	17.1	AV	H	38.68	8.66	26.47	37.97	54.00	16.03
7266	17.77	AV	H	38.78	6.62	26.61	36.56	54.00	17.44
9688	33.13	PK	H	38.68	8.66	26.47	54.00	74.00	20.00
4844	42.1	PK	H	33.26	4.78	27.04	53.10	74.00	20.90
2501.6	24.67	AV	V	31.60	3.70	27.81	32.15	54.00	21.85
7266	32.68	PK	H	38.78	6.62	26.61	51.47	74.00	22.53
2501.6	36.57	PK	V	31.60	3.70	27.81	44.05	74.00	29.95
Middle Channel: 2437 MHz									
2437	54.94	AV	H	31.25	3.98	0.00	90.17	N/A	N/A
2437	65.81	PK	H	31.25	3.98	0.00	101.04	N/A	N/A
2437	52.13	AV	V	31.25	3.98	0.00	87.36	N/A	N/A
2437	63.1	PK	V	31.25	3.98	0.00	98.33	N/A	N/A
406.36	41.92	QP	H	16.38	2.45	21.79	38.96	46.00	7.04
4874	27.32	AV	H	33.32	4.76	27.03	38.38	54.00	15.62
9748	17.19	AV	H	38.80	8.60	26.53	38.06	54.00	15.94
7311	17.7	AV	H	38.86	6.70	26.65	36.61	54.00	17.39
2503.6	25.82	AV	V	31.59	3.70	27.82	33.30	54.00	20.70
9748	31.69	PK	H	38.80	8.60	26.53	52.56	74.00	21.44
4874	41.06	PK	H	33.32	4.76	27.03	52.12	74.00	21.88
7311	32.5	PK	H	38.86	6.70	26.65	51.41	74.00	22.59
3741.5	18.8	AV	V	32.13	4.72	27.36	28.30	54.00	25.70
2503.6	37.19	PK	V	31.59	3.70	27.82	44.67	74.00	29.33
3741.5	32.39	PK	V	32.13	4.72	27.36	41.89	74.00	32.11
High Channel: 2452 MHz									
2452	54.88	AV	H	31.33	4.00	0.00	90.21	N/A	N/A
2452	65.75	PK	H	31.33	4.00	0.00	101.08	N/A	N/A
2452	52.93	AV	V	31.33	4.00	0.00	88.26	N/A	N/A
2452	63.57	PK	V	31.33	4.00	0.00	98.90	N/A	N/A
2483.5	13.83	AV	V	31.51	3.80	0.00	49.13	54.00	4.87
406.36	43.04	QP	H	16.38	2.45	21.79	40.08	46.00	5.92
2483.5	27.41	PK	V	31.51	3.80	0.00	62.71	74.00	11.29
4904	28.59	AV	H	33.39	4.72	27.08	39.62	54.00	14.38
9808	17.34	AV	H	38.92	8.53	26.59	38.20	54.00	15.80
7356	18.02	AV	H	38.94	6.79	26.70	37.05	54.00	16.95
2602.2	28.22	AV	V	31.46	3.94	27.67	35.94	54.00	18.06
9808	32.15	PK	H	38.92	8.53	26.59	53.01	74.00	20.99
4904	41.77	PK	H	33.39	4.72	27.08	52.80	74.00	21.20
7356	32.43	PK	H	38.94	6.79	26.70	51.46	74.00	22.54
2602.2	40.77	PK	V	31.46	3.94	27.67	48.49	74.00	25.51

Conducted Spurious Emissions at Antenna Port

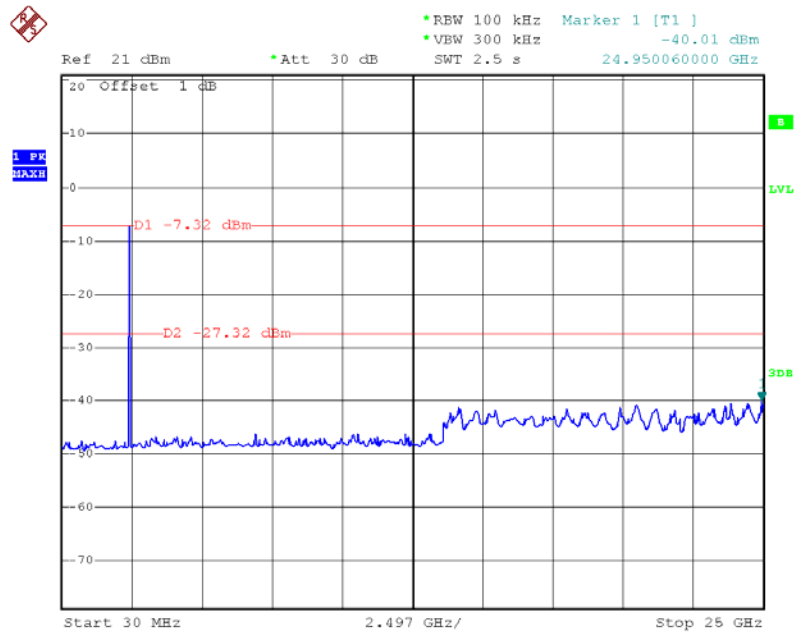
802.11b Low Channel



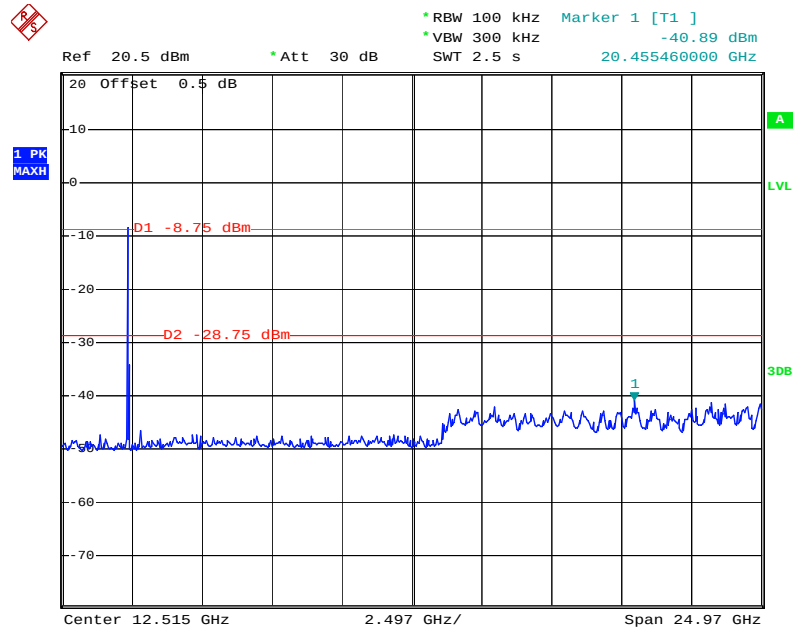
802.11b Middle Channel



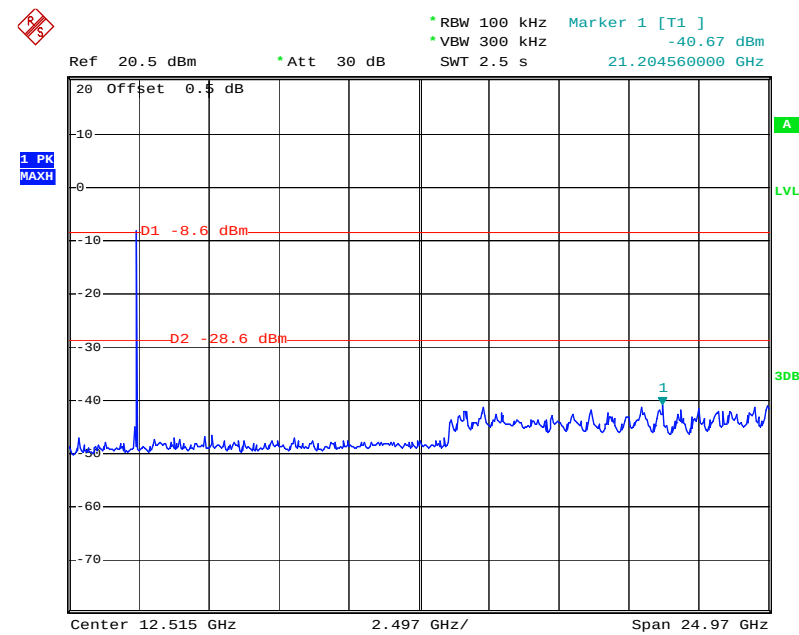
802.11b High Channel



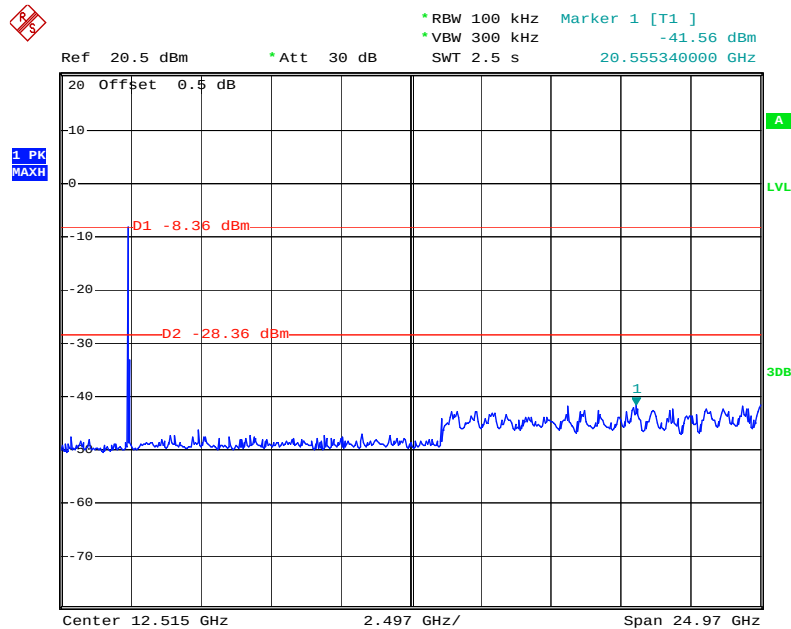
802.11g Low Channel



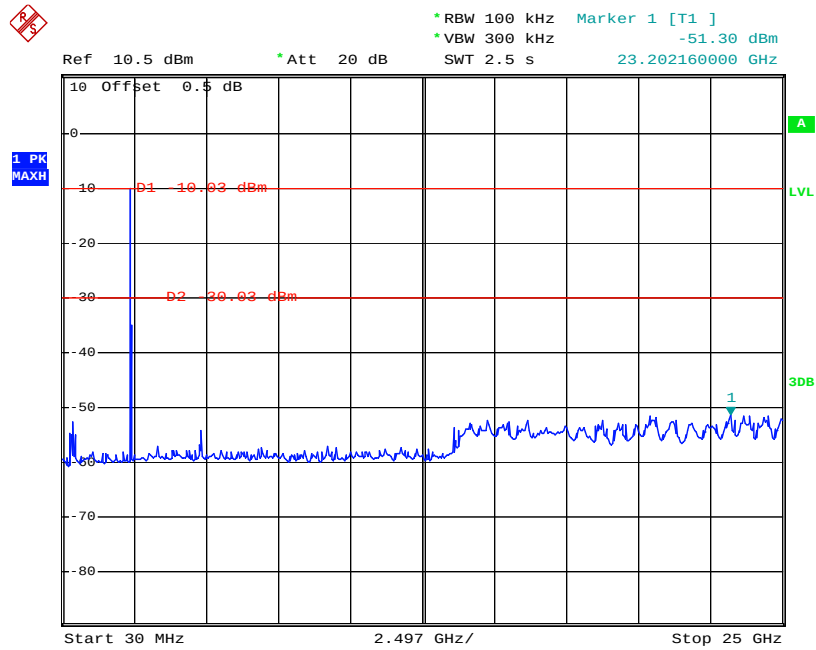
802.11g Middle Channel



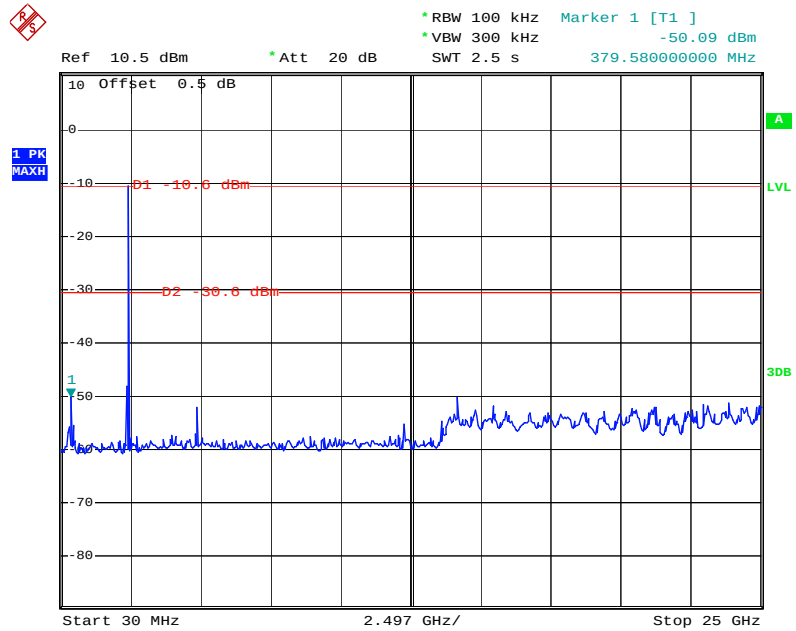
802.11g High Channel



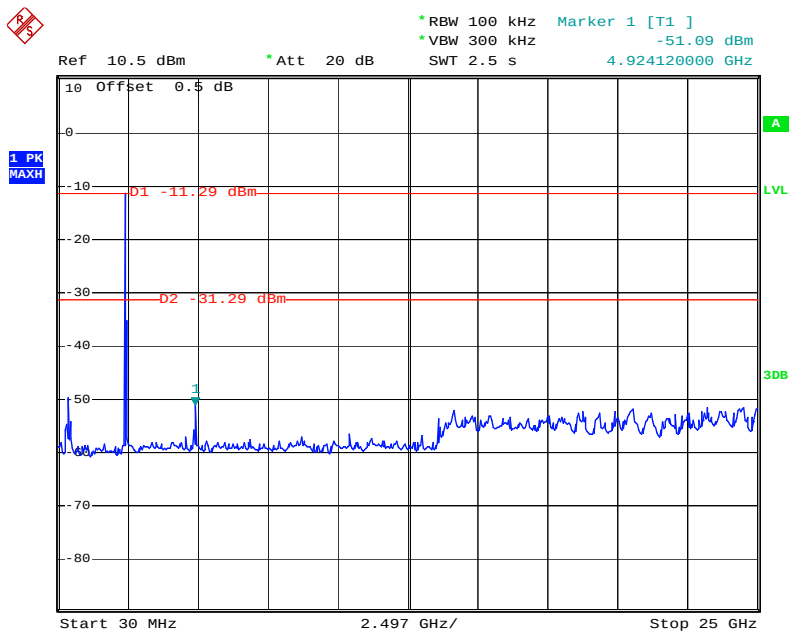
802.11n20 Low Channel



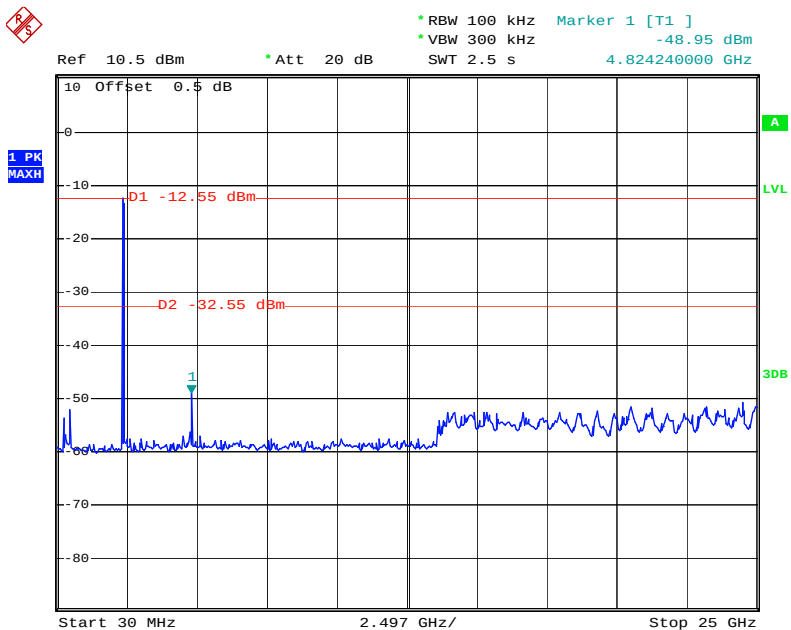
802.11n20 Middle Channel



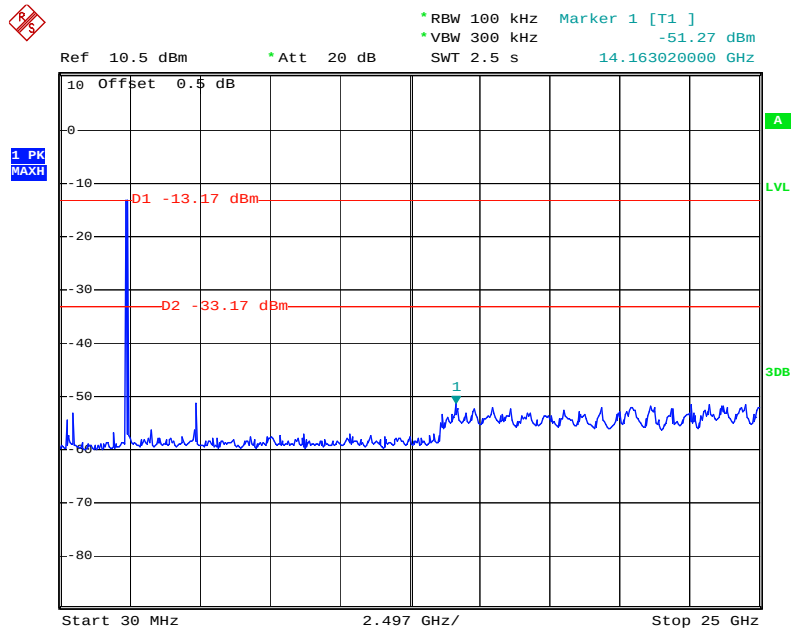
802.11n20 High Channel



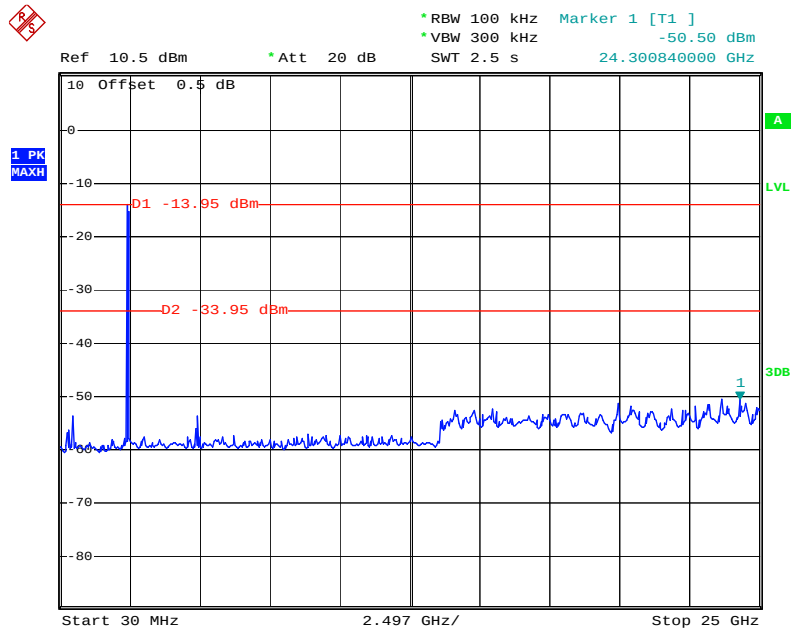
802.11n40 Low Channel



802.11n40 Middle Channel



802.11n40 High Channel

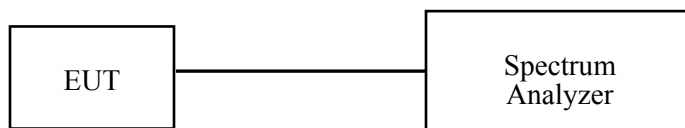


FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH**Applicable Standard**

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Spectrum Analyzer	FSP38	100478	2012-5-14	2013-5-13

Test Data**Environmental Conditions**

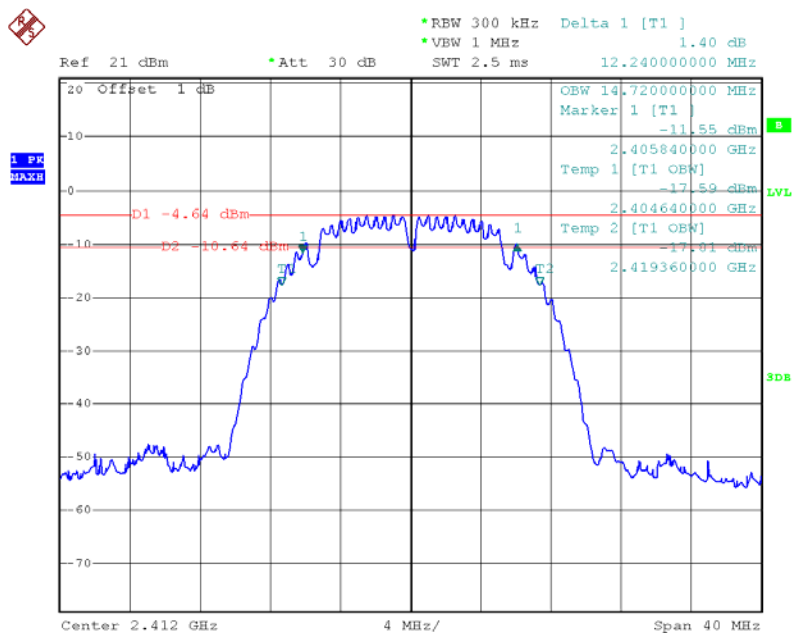
Temperature:	26.7 ° C
Relative Humidity:	59 %
ATM Pressure:	100.9kPa

The testing was performed by Leon Chen from 2012-09-06 to 2012-10-11.

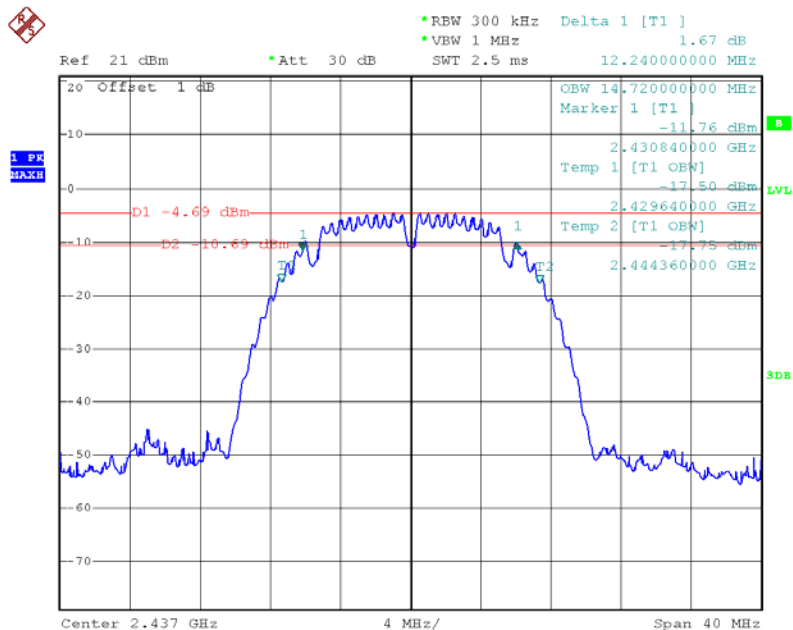
Test Result: Pass.

Please refer to the following tables and plots.

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)
802.11b mode			
Low	2412	12.24	>500
Middle	2437	12.24	>500
High	2462	12.24	>500
802.11g mode			
Low	2412	16.64	>500
Middle	2437	16.64	>500
High	2462	16.64	>500
802.11n20 mode			
Low	2412	17.92	>500
Middle	2437	17.68	>500
High	2462	17.68	>500
802.11n40 mode			
Low	2422	36.64	>500
Middle	2437	36.64	>500
High	2452	36.72	>500

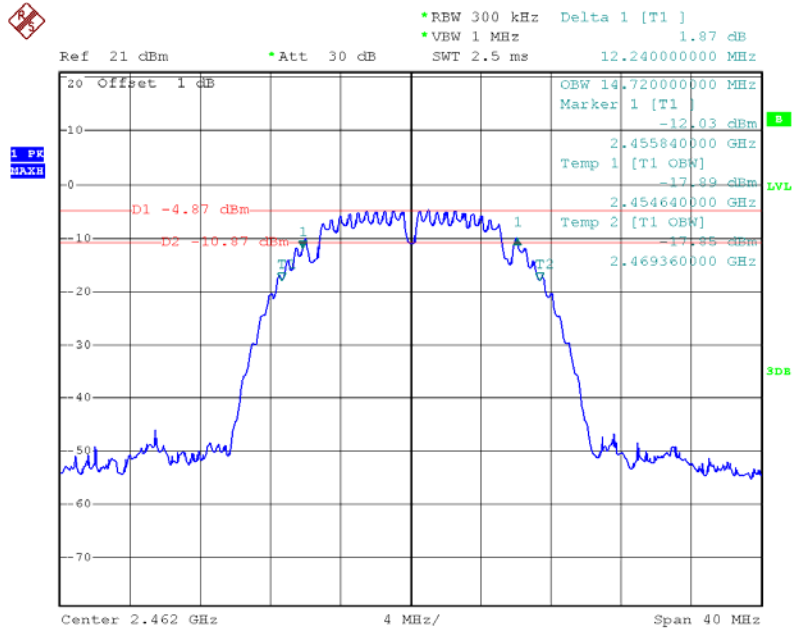
802.11b Low Channel

Date: 11.OCT.2012 10:30:51

802.11b Middle Channel

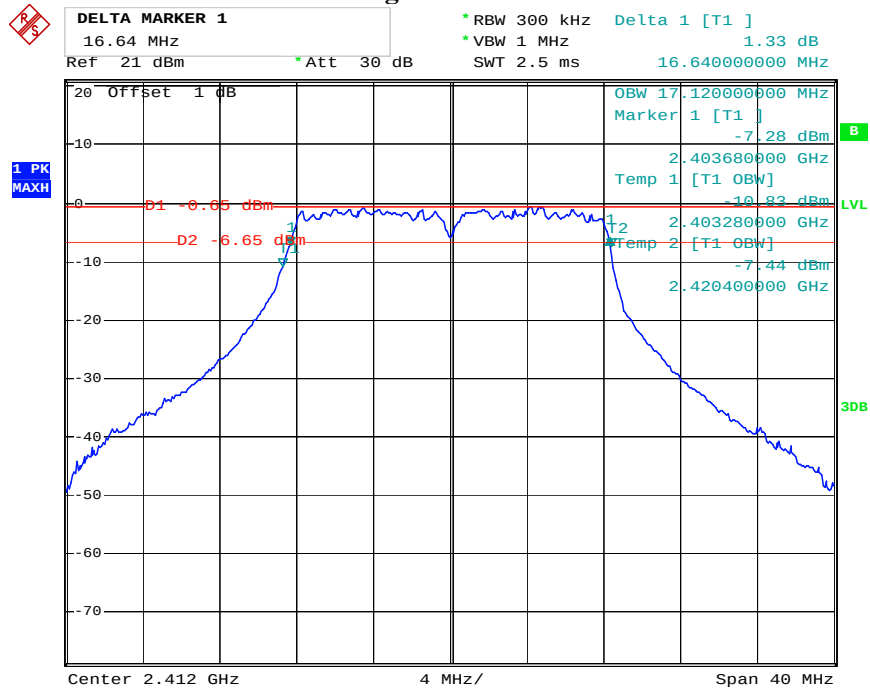
Date: 11.OCT.2012 10:28:45

802.11b High Channel



Date: 11.OCT.2012 10:34:59

802.11g Low Channel



Date: 6.SEP.2012 17:46:20

DELTA MARKER 1
16.64 MHz
Ref 21 dBm Att 30 dB

*RBW 300 kHz
*VBW 1 MHz
SWT 2.5 ms

Delta 1 [T1]
1.20 dB
16.64000000 MHz

1 PK
MAXH

Offset 1 dB

D1 -1.53 dBm
D2 -7.53 dBm

OBW 17.120000000 MHz
Marker 1 [T1]
-8.09 dBm
2.428680000 GHz
Temp 1 [T1 OBW]
-11.29 dBm
2.428280000 GHz
Temp 2 [T1 OBW]
-8.44 dBm
2.445400000 GHz

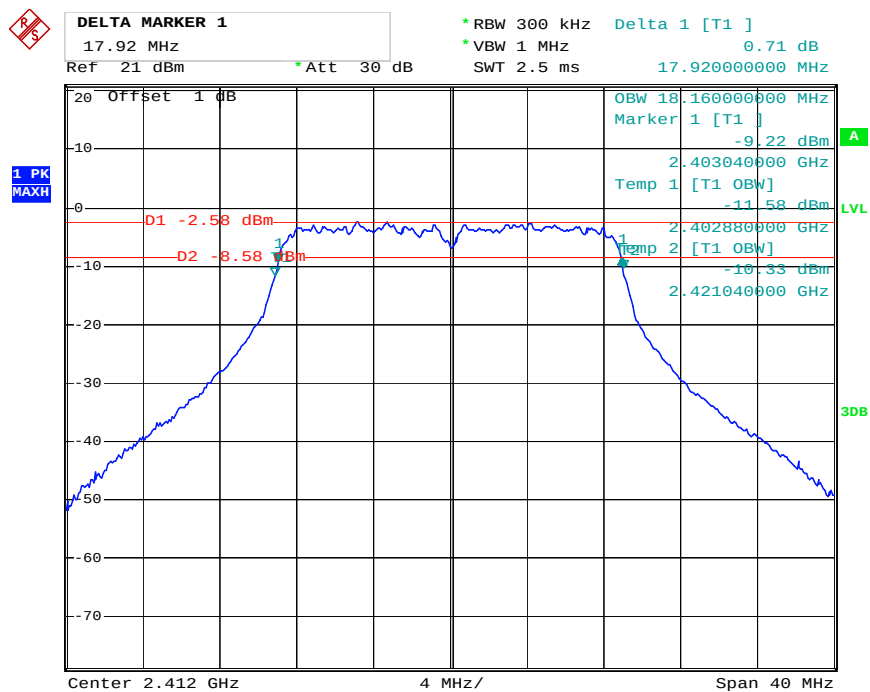
Center 2.437 GHz
4 MHz/
Span 40 MHz

Date: 6.SEP.2012 17:41:08

[illegible]

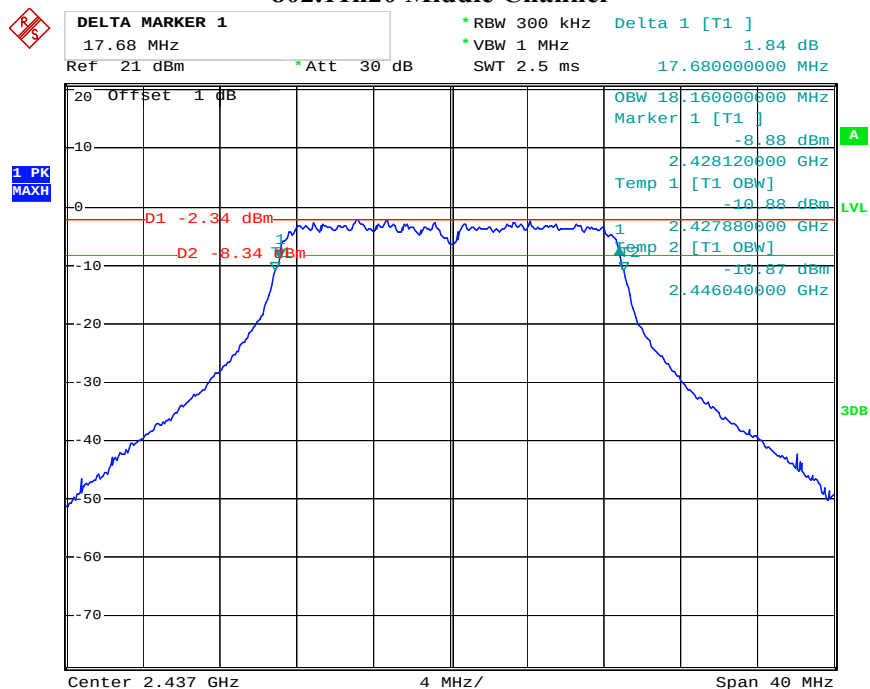
Date: 6.SEP.2012 17:51:27

802.11n20 Low Channel



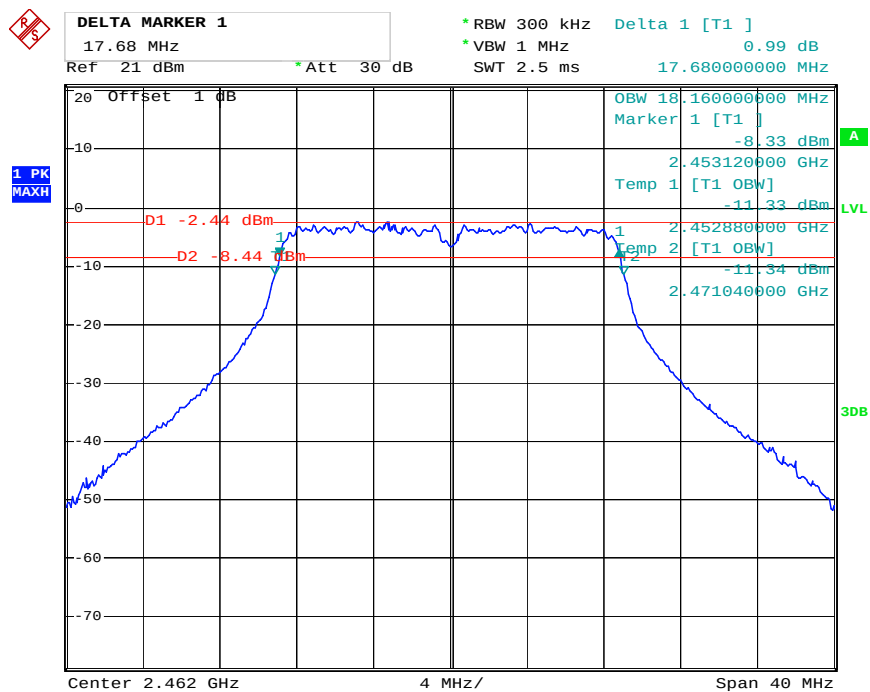
Date: 7.SEP.2012 16:03:45

802.11n20 Middle Channel



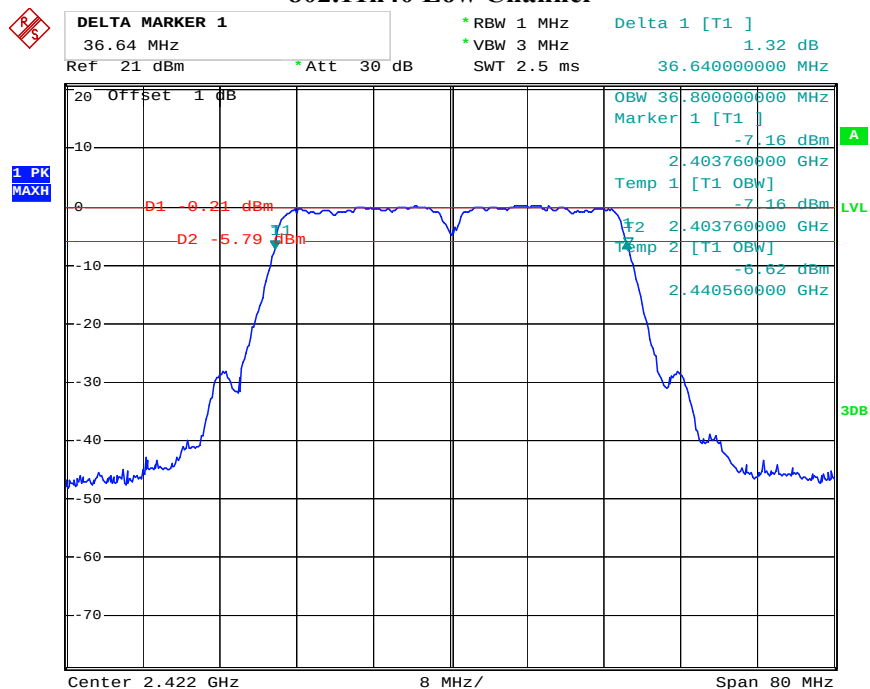
Date: 7.SEP.2012 16:09:17

802.11n20 High Channel



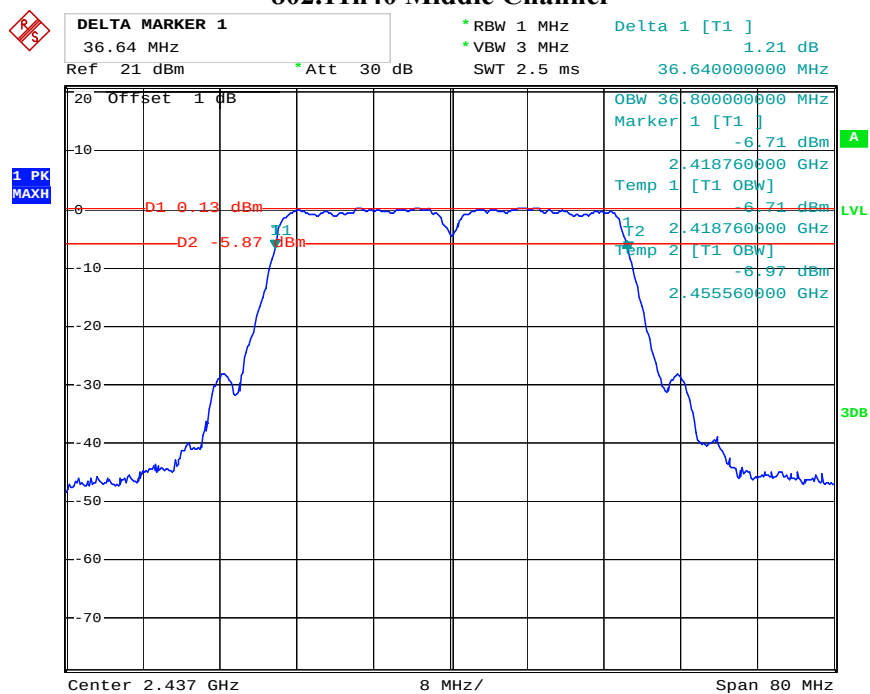
Date: 7.SEP.2012 16:11:58

802.11n40 Low Channel



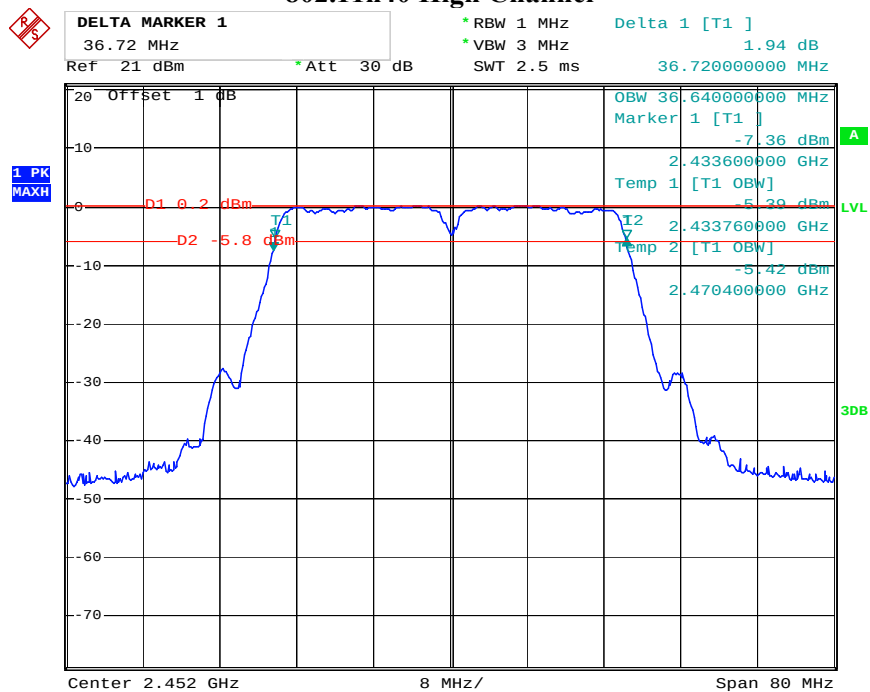
Date: 7.SEP.2012 15:52:09

802.11n40 Middle Channel



Date: 7.SEP.2012 15:49:39

802.11n40 High Channel



Date: 7.SEP.2012 15:43:43

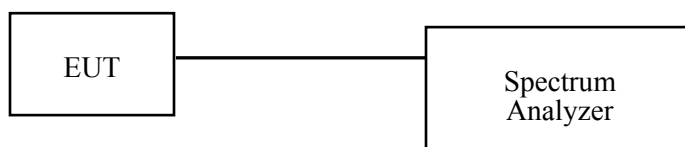
FCC §15.247(b) (3) - MAXIMUM PEAK OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI Test Receiver.
3. Add a correction factor to the display.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Spectrum Analyzer	FSP38	100478	2012-5-14	2013-5-13

Test Data

Environmental Conditions

Temperature:	26.7 °C
Relative Humidity:	59 %
ATM Pressure:	100.9kPa

The testing was performed by Leon Chen from 2012-10-11 to 2012-10-12.

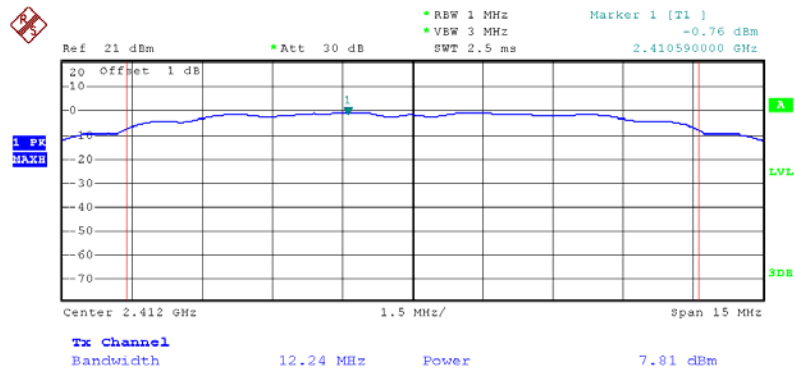
Test Mode: Transmitting

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
802.11b mode				
Low	2412	7.81	30	PASS
Middle	2437	7.76	30	PASS
High	2462	7.61	30	PASS
802.11g mode				
Low	2412	7.84	30	PASS
Middle	2437	7.79	30	PASS
High	2462	7.71	30	PASS
802.11n20 mode				
Low	2412	7.76	30	PASS
Middle	2437	7.72	30	PASS
High	2462	7.76	30	PASS
802.11n40 mode				
Low	2422	7.87	30	PASS
Middle	2437	7.89	30	PASS
High	2452	7.82	30	PASS

The antenna gain is 3.0 dBi.

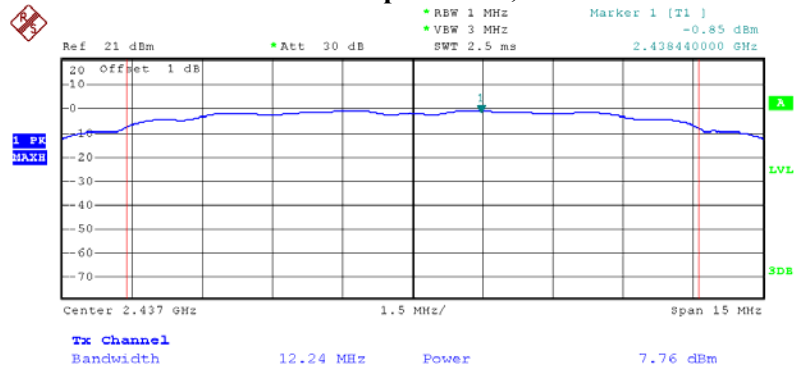
Please refer to the following plots

802.11b RF Output Power, Low Channel

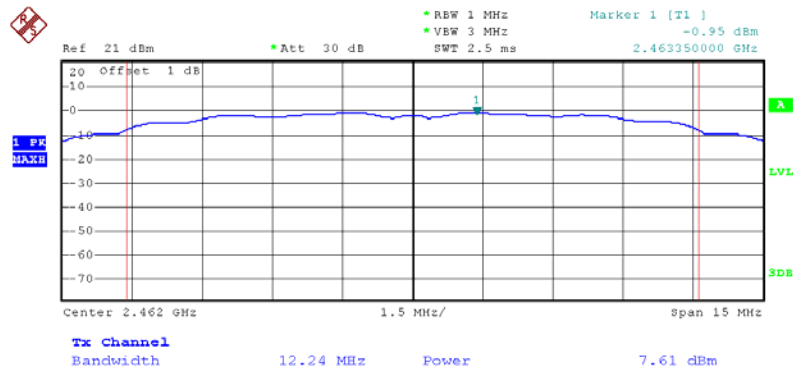


Date: 11.OCT.2012 10:31:00

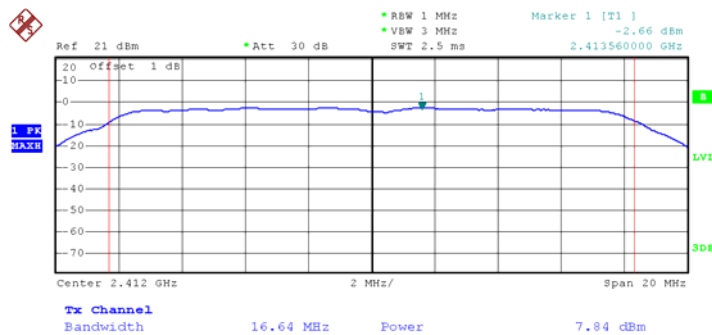
802.11b RF Output Power, Middle Channel



Date: 11.OCT.2012 10:28:51

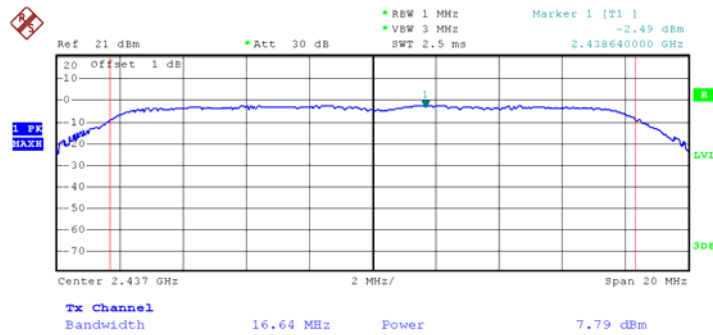
802.11b RF Output Power, High Channel

Date: 11.OCT.2012 10:35:06

802.11g RF Output Power, Low Channel

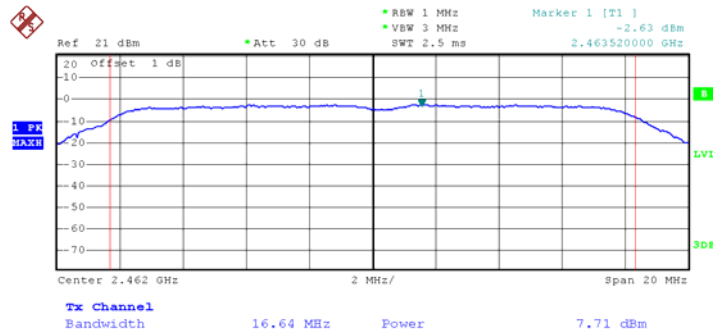
Date: 12.OCT.2012 19:01:31

802.11g RF Output Power, Middle Channel



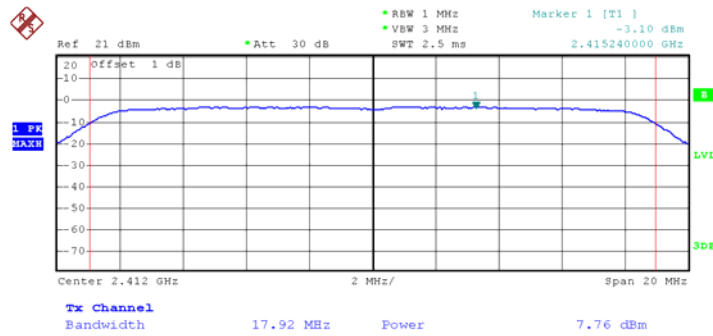
Date: 12.OCT.2012 19:02:10

802.11g RF Output Power, High Channel



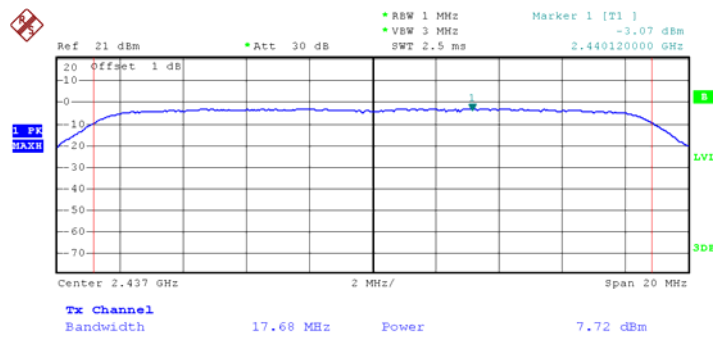
Date: 12.OCT.2012 19:02:42

802.11n20 RF Output Power, Low Channel

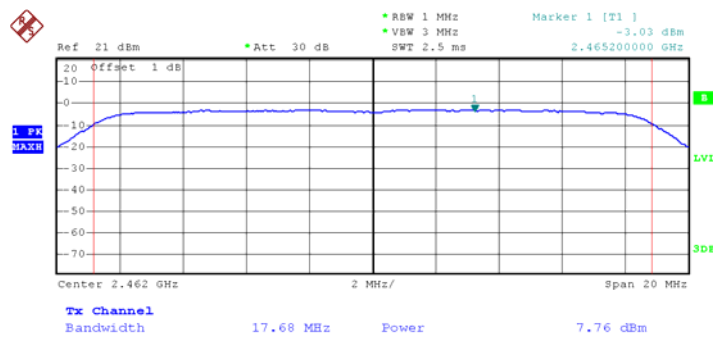


Date: 12.OCT.2012 19:05:11

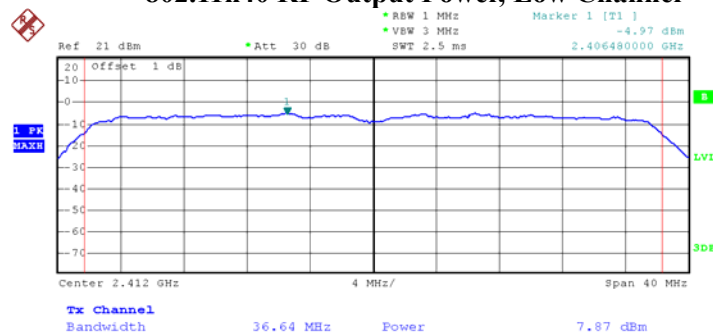
802.11n20 RF Output Power, Middle Channel



Date: 12.OCT.2012 19:06:00

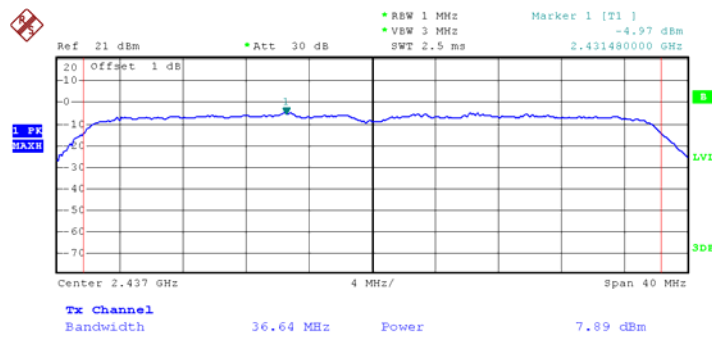
802.11n20 RF Output Power, High Channel

Date: 12.OCT.2012 19:06:26

802.11n40 RF Output Power, Low Channel

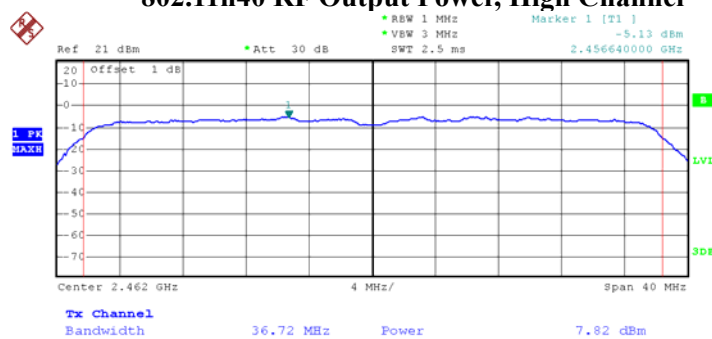
Date: 12.OCT.2012 19:09:42

802.11n40 RF Output Power, Middle Channel



Date: 12.OCT.2012 19:10:11

802.11n40 RF Output Power, High Channel



Date: 12.OCT.2012 19:10:55

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE**Applicable Standard**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Spectrum Analyzer	FSP38	100478	2012-5-14	2013-5-13

Test Data**Environmental Conditions**

Temperature:	26.7 ° C
Relative Humidity:	59 %
ATM Pressure:	100.9kPa

The testing was performed by Leon Chen from 2012-09-06 to 2012-10-11.

Test Result: Compliance

Please refer to following plots.

Ref 21 dBm • Att 30 dB • RBW 100 kHz Marker 4 [T1] -46.63 dBm
 • VEW 300 kHz SWT 15 ms 2.397360000 GHz

20 Offset 1 dB

Marker 1 [T1] -6.96 dBm 2.413040000 GHz

Marker 2 [T1] -49.16 dBm 2.390000000 GHz

Marker 3 [T1] 1 -46.63 dBm 2.400000000 GHz

D1 -6.96 dBm

D2 -26.96 dBm

F1 F2

Start 2.31 GHz 11.2 MHz/ Stop 2.422 GHz

Date: 11.OCT.2012 10:32:11

1 PK
MAX

Ref 21 dBm Att 30 dB SWT 5 ms 2.490600000 GHz

20 Offset 1 dB

Marker 1 [T1]
-7.13 dBm
2.462900000 GHz

Marker 2 [T1]
-49.80 dBm
2.493500000 GHz

Marker 3 [T1]
-50.01 dBm
2.500000000 GHz

D1 -7.13 dBm

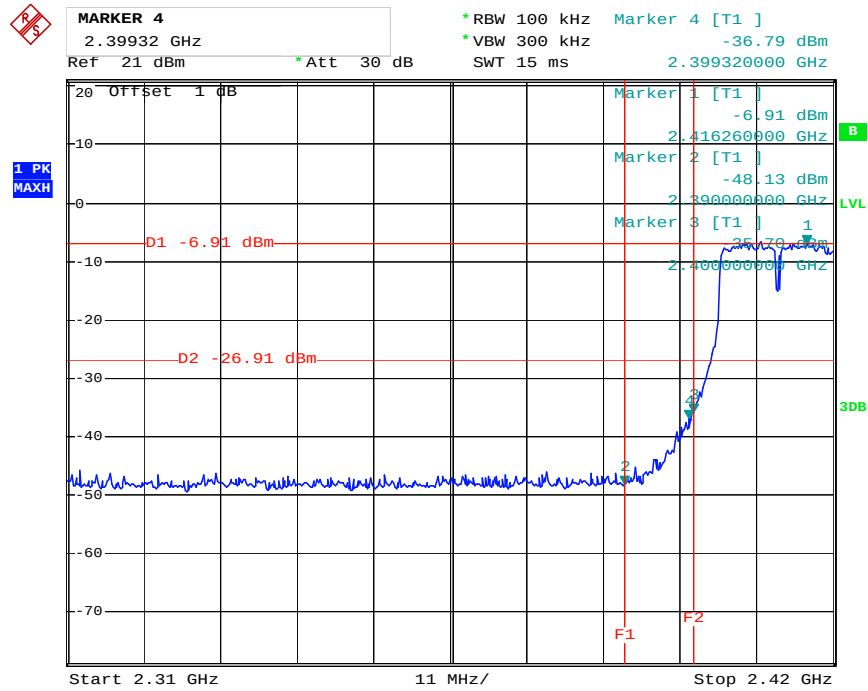
D2 -37.13 dBm

F1 F2

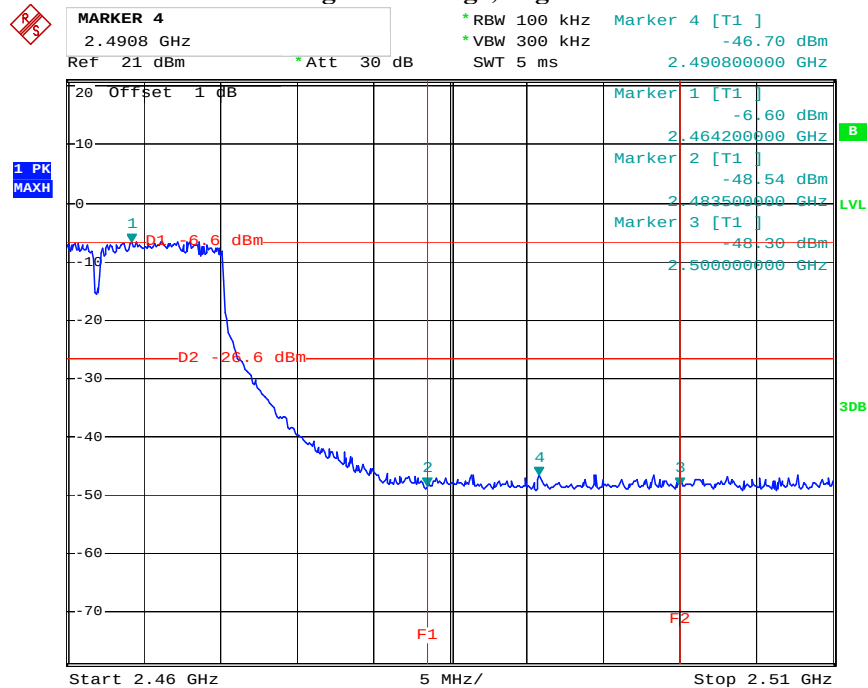
Start 2.46 GHz 5 MHz/ Stop 2.51 GHz

Date: 11.OCT.2012 10:36:22

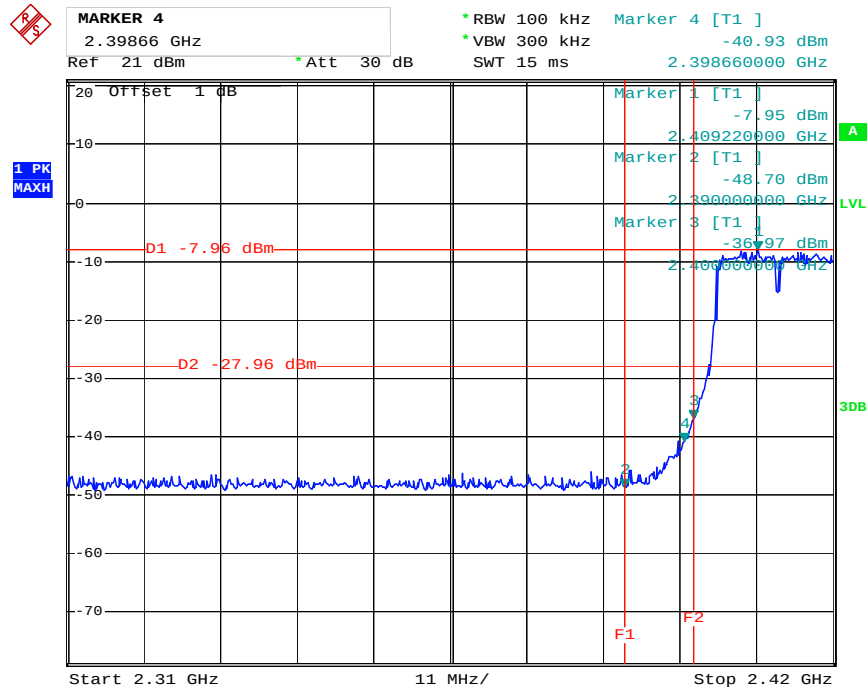
802.11g: Band Edge, Left Side



802.11g: Band Edge, Right Side

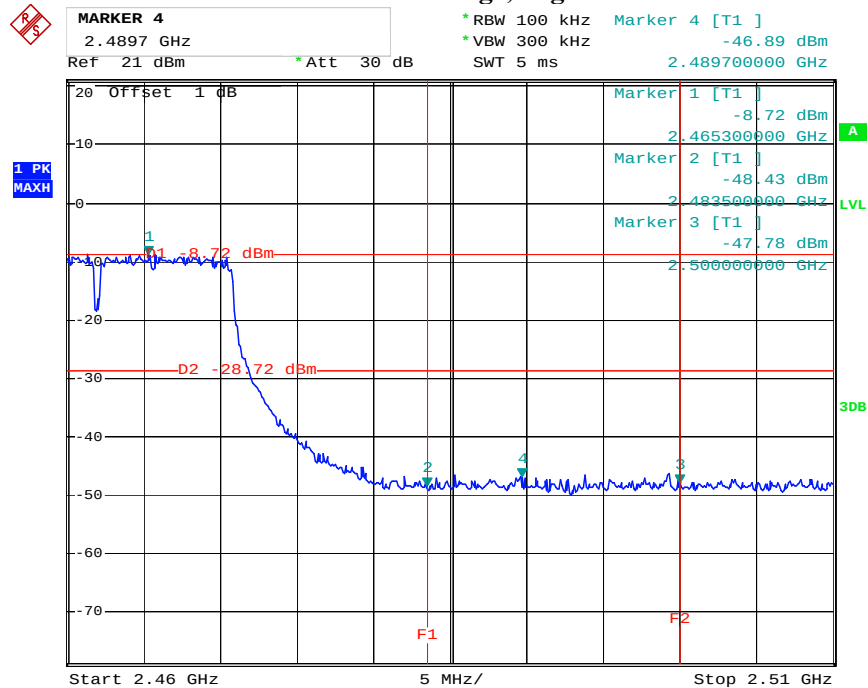


802.11n20: Band Edge, Left Side



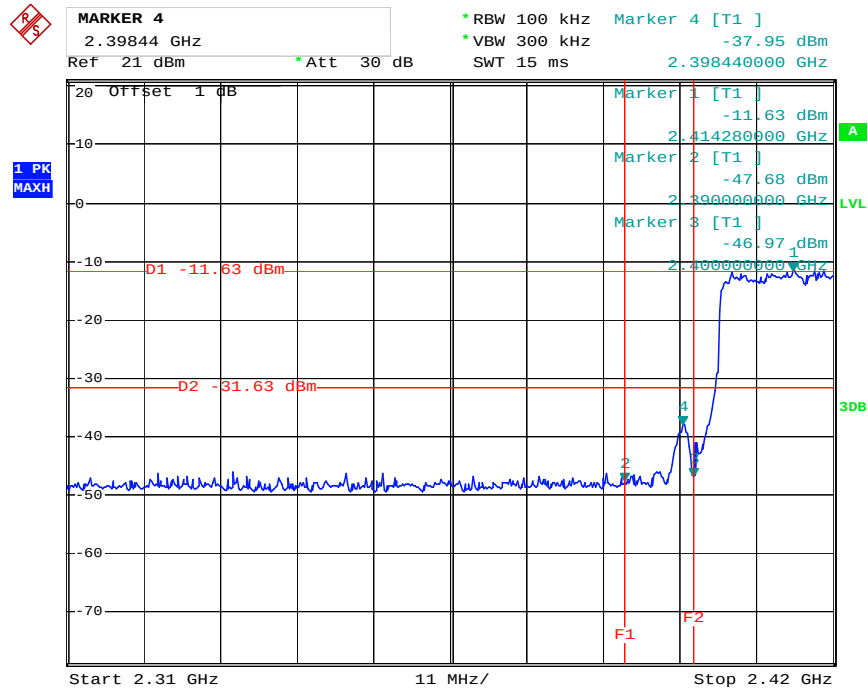
Date: 7.SEP.2012 16:07:41

802.11n20: Band Edge, Right Side



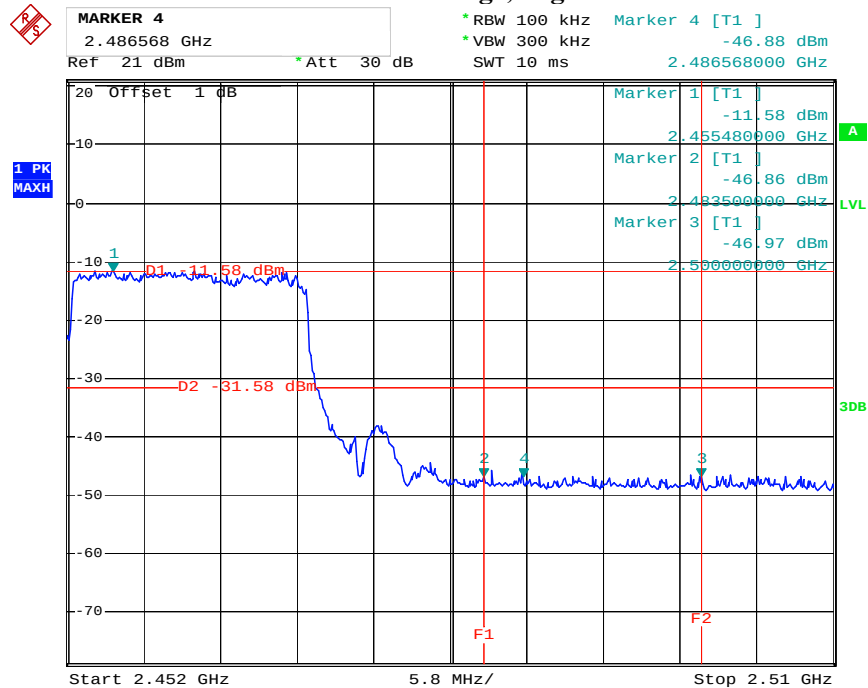
Date: 7.SEP.2012 16:15:09

802.11n40: Band Edge, Left Side



Date: 7.SEP.2012 15:53:46

802.11n40: Band Edge, Right Side



Date: 7.SEP.2012 15:46:02

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. According to KDB 558074 D01 DTS Meas Guidance v01, set the RBW = 100 kHz, VBW $\geq$ 300 kHz, set the span to 5-30 % greater than the EBW.
4. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
5. Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3\text{ kHz}/100\text{ kHz} = -15.2\text{ dB})$.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Spectrum Analyzer	FSP38	100478	2012-5-14	2013-5-13

Test Data

Environmental Conditions

Temperature:	26.7 °C
Relative Humidity:	59 %
ATM Pressure:	100.9kPa

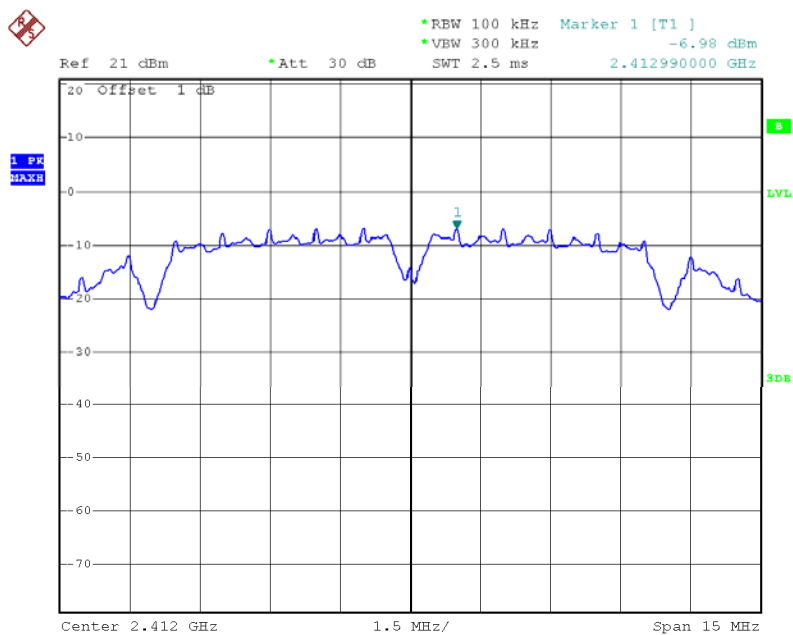
The testing was performed by Leon Chen on from 2012-09-06 to 2012-10-11 .

Test Mode: Transmitting

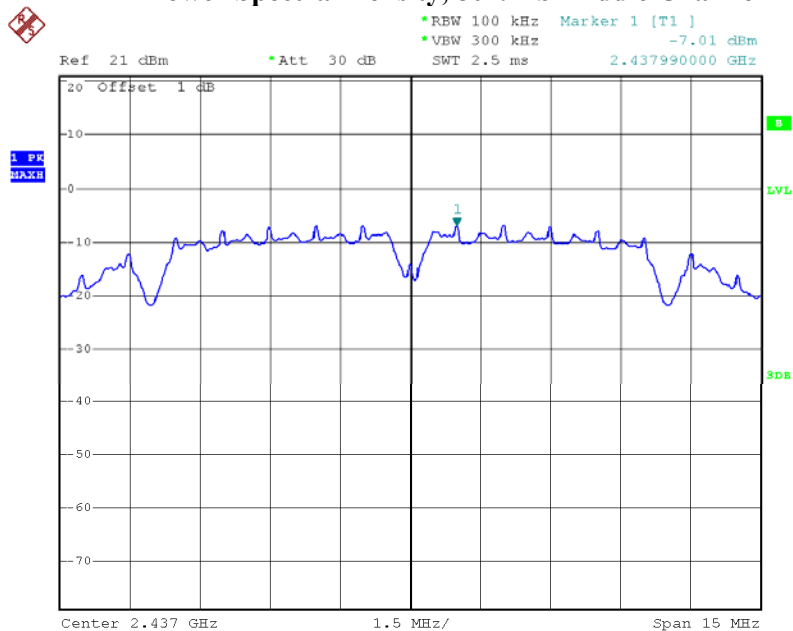
Test Result: Pass

Channel	PSD Reading (dBm/100 kHz)	Cord. PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Result
802.11b mode				
Low	-6.98	-22.18	8	PASS
Middle	-7.01	-22.21	8	PASS
High	-7.13	-22.33	8	PASS
802.11g mode				
Low	-8.69	-21.89	8	PASS
Middle	-7.57	-22.77	8	PASS
High	-8.33	-21.53	8	PASS
802.11n20 mode				
Low	-8	-23.2	8	PASS
Middle	-8.15	-23.35	8	PASS
High	-7.97	-23.17	8	PASS
802.11n40 mode				
Low	-11.55	-26.75	8	PASS
Middle	-11.5	-26.7	8	PASS
High	-11.59	-26.79	8	PASS

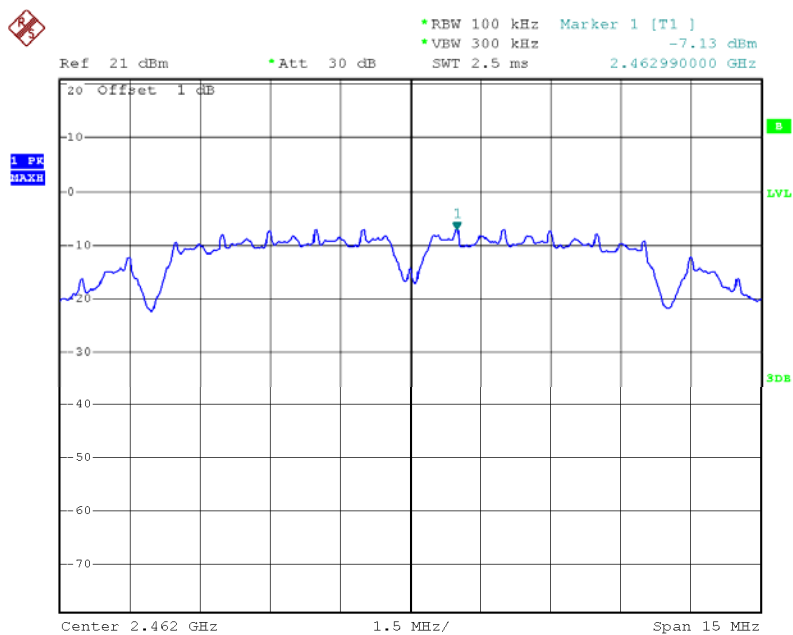
Note: The antenna gain is 3.0 dBi.
Please refer to the following plots.

Power Spectral Density, 802.11b Low Channel

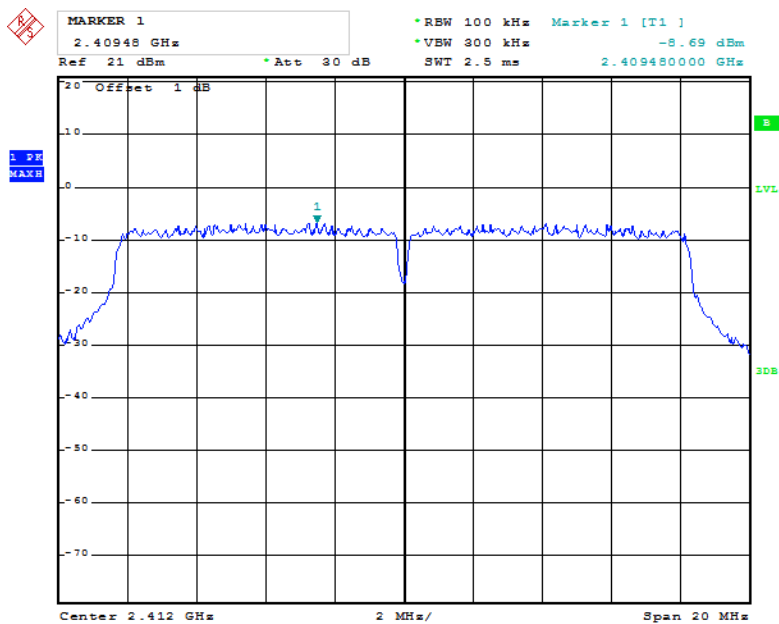
Date: 11.OCT.2012 10:31:22

Power Spectral Density, 802.11b Middle Channel

Date: 11.OCT.2012 10:29:10

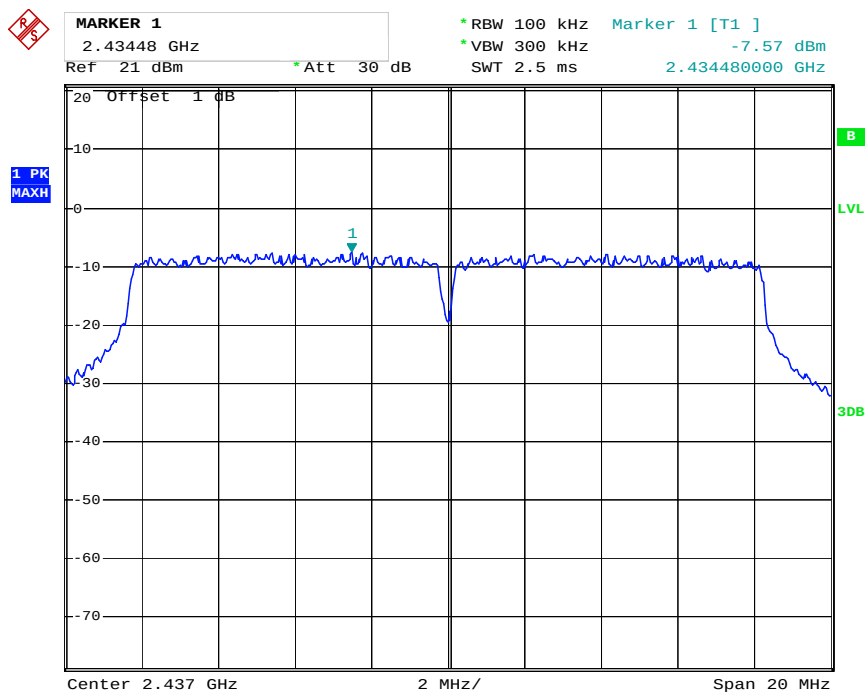
Power Spectral Density, 802.11b High Channel

Date: 11.OCT.2012 10:35:30

Power Spectral Density, 802.11g Low Channel

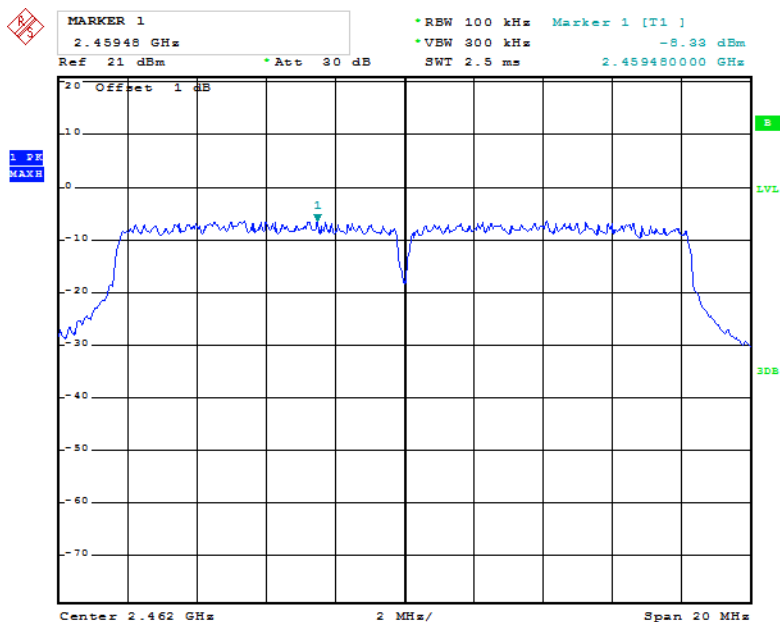
Date: 6.SEP.2012 17:47:13

Power Spectral Density, 802.11g Middle Channel



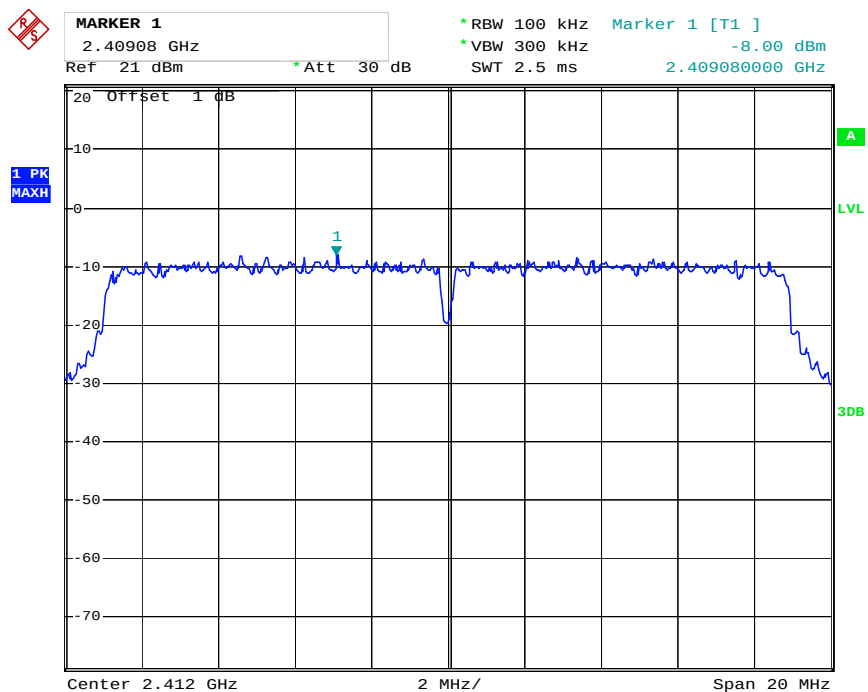
Date: 6.SEP.2012 17:42:18

Power Spectral Density, 802.11g High Channel



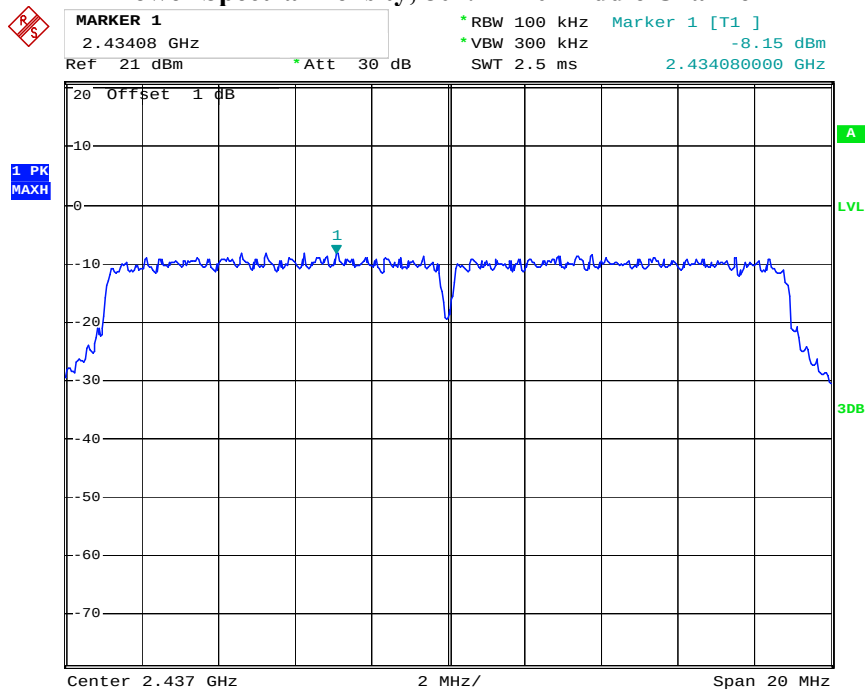
Date: 6.SEP.2012 17:54:19

Power Spectral Density, 802.11n20 Low Channel



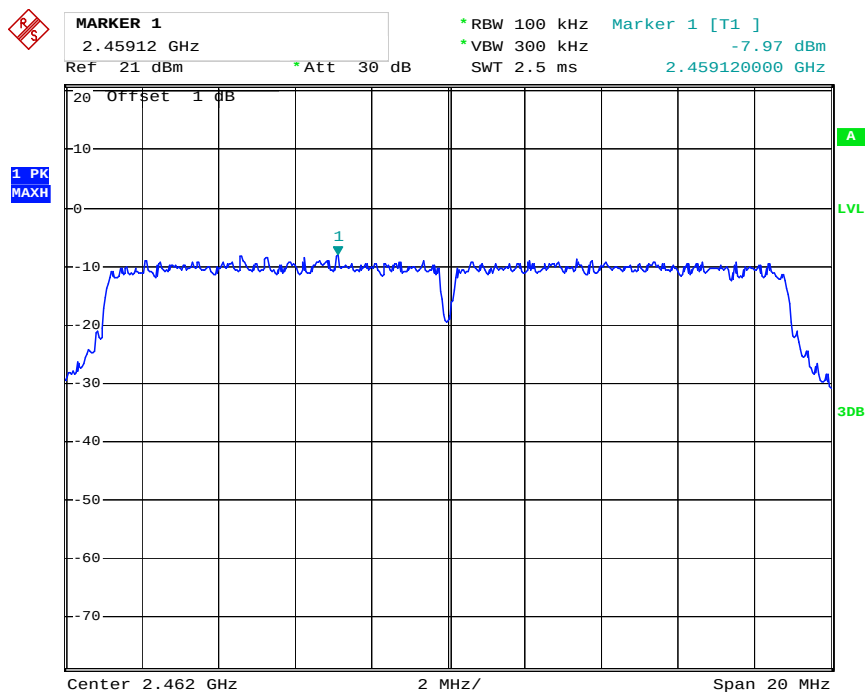
Date: 7.SEP.2012 16:05:41

Power Spectral Density, 802.11n20 Middle Channel



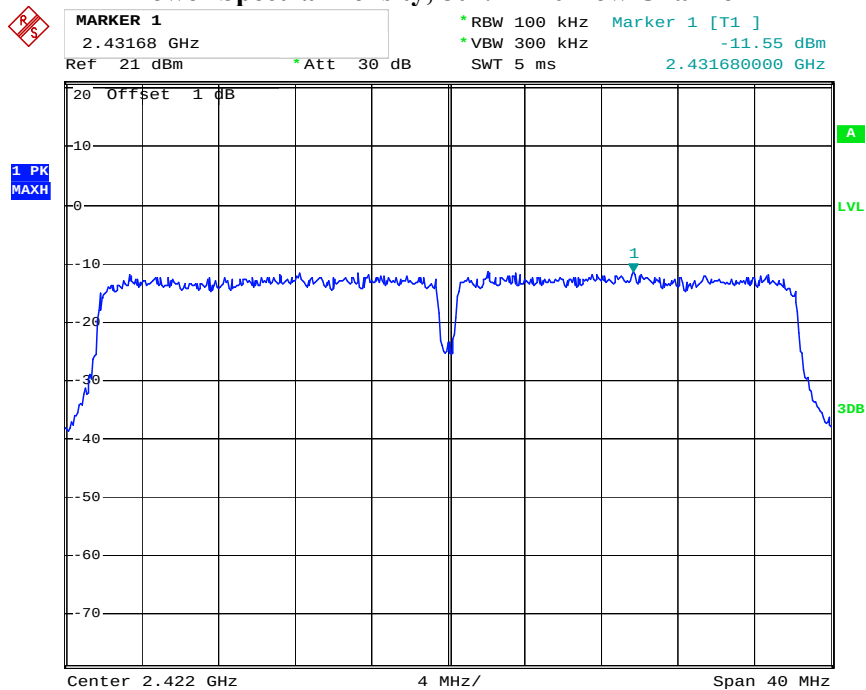
Date: 7.SEP.2012 16:10:14

Power Spectral Density, 802.11n20 High Channel



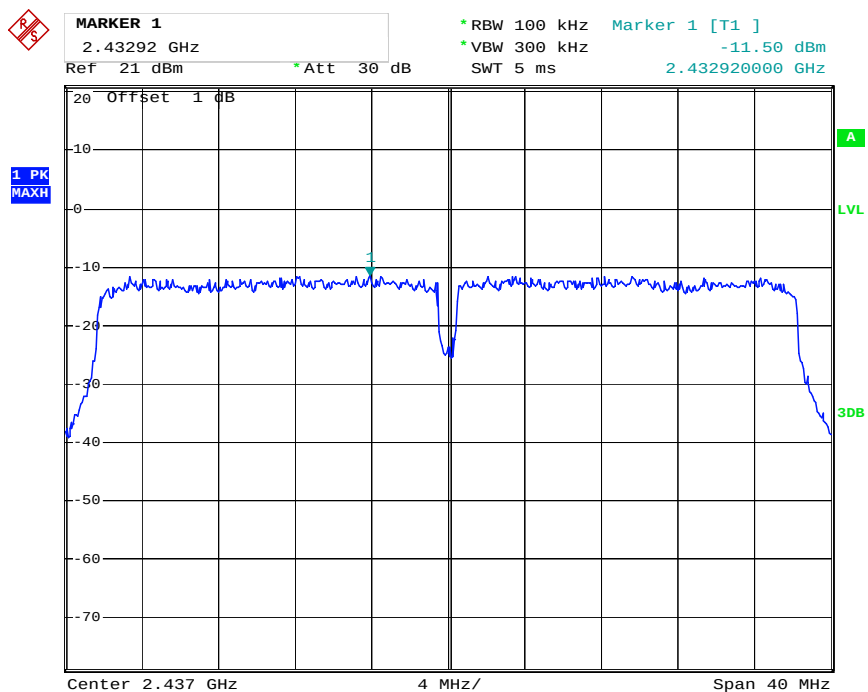
Date: 7.SEP.2012 16:12:39

Power Spectral Density, 802.11n40 Low Channel



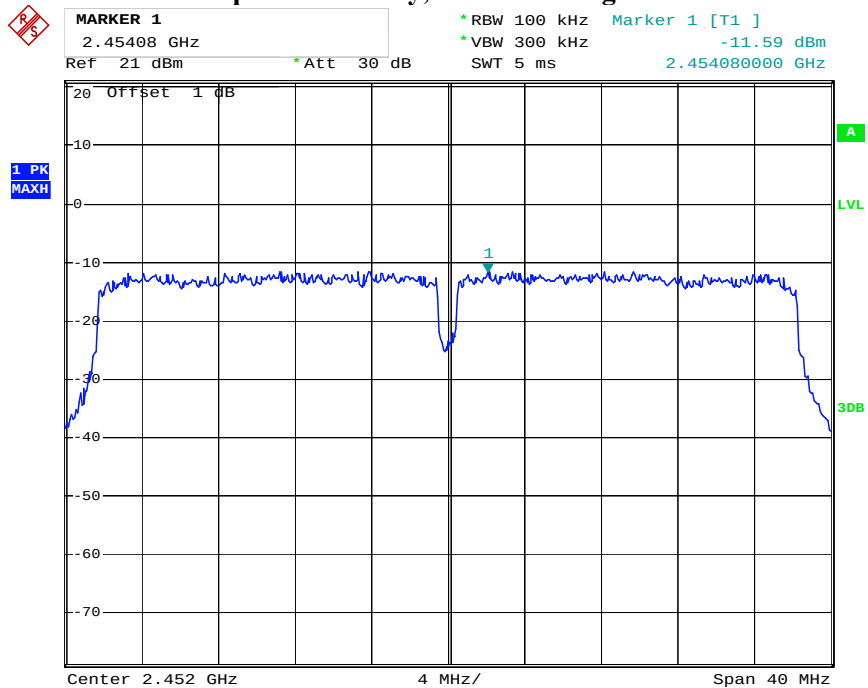
Date: 7.SEP.2012 15:52:52

Power Spectral Density, 802.11n40 Middle Channel



Date: 7.SEP.2012 15:50:37

Power Spectral Density, 802.11n40 High Channel



Date: 7.SEP.2012 15:44:39

DECLARATION LETTER

COBY®

Innovations for Every Lifestyle!™

Coby Communications Ltd.

Add: Unit C-E, 8/F, PO Shau Centre, 115 How Ming Street, Kwun Tong
Kowloon, Hong Kong

Tel: 85227595838 Fax: 85227595887

DECLARATION OF SIMILARITY

October 16, 2012

To:

Bay Area Compliance Laboratories Corp.
1274 Anvilwood Ave.

Sunnyvale, CA 94089

Phone: 408-732-9162, Fax: 408-732-9164

<http://www.baclcorp.com>

Dear Sir or Madam:

We, Coby Communications Ltd., hereby declare that product: Mobile Internet Device, model(s): MID7046, MID7047, MID7048, MID7050, MID7051 are electrically identical with the same electromagnetic emissions and electromagnetic compatibility characteristics. And they were tested by BACL, the results of which are featured in BACL project: R1DG120904009.

A description of the differences between the tested model and that which is declared similar is as follows:

Model Numbers: MID7047, MID7048, MID7051 are electrically identical with the Model Numbers: MID7046, MID7050, one of differences is the model name, the rest differences are as follows:

Model(s)	MID7047, MID7048, MID7051	MID7046, MID7050
Touch panel	capacitance screen	resistance screen
DDR	512MB(2 pcs)	512MB(2 pcs)
	1GB (4 pcs)	
Camera	with	without
HDMI port	with	without
	without	

Please contact me should there be need for any additional clarification or information.

Best Regards,
Andy Yan
Senior Manager



***** END OF REPORT *****