

FCC PART 15.247

TEST REPORT

For

DDM Brands LLC

1616 NW, 84TH Ave. Miami, Florida, U.S.A

FCC ID: A4JWP47

Report Type: Original Report	Product Type: 3G Mobile Phone
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Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The DDM Brands LLC's product, model number: YEZZ WP 47 (FCC ID: A4JWP47) or the "EUT" in this report was a 3G mobile phone, which was measured approximately: 136 mm (L) x 67 mm (W) x 7 mm (H), rated with input voltage: DC 3.8 V rechargeable Li-ion battery or DC 5.0V charging from adapter.

Adapter Information:

Model: Thrill 430x

Input: AC 110-220V, 50/60 Hz, 0.2A

Output: DC 5.0V, 1A

Note: The model WP47, WP47B, MONACO 47 and BILLY 4.7 are electrically identical with the same PCB layout and schematic with the model: YEZZ WP 47 tested by BACL, the only difference is the model number for the purpose of market, the detailed information can be referred to the attached declaration letter that stated and guaranteed by the applicant.

**All measurement and test data in this report was gathered from production sample serial number: 1406047 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2014-06-09.*

Objective

This report is prepared on behalf of DDM Brands LLC in accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communication Commission rules.

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

Related Submittal(s)/Grant(s)

FCC Part 15B JBP, Part 15.247 DSS and Part 22H/24E PCE submissions with FCC ID: A4JWP47.

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 at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with RF radiated emission is 5.91 dB for 30MHz-1GHz and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) 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 December 06, 2010. 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.: 382179. 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, 802.11g, and 802.11n-HT20 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	/	/

For 802.11b, 802.11g, 802.11n-HT20 mode, EUT was tested with Channel 1, 6 and 11.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

RF test tool built-in the EUT.

The test was performed under:

802.11b: Data rate: 1 Mbps, Power level: 10

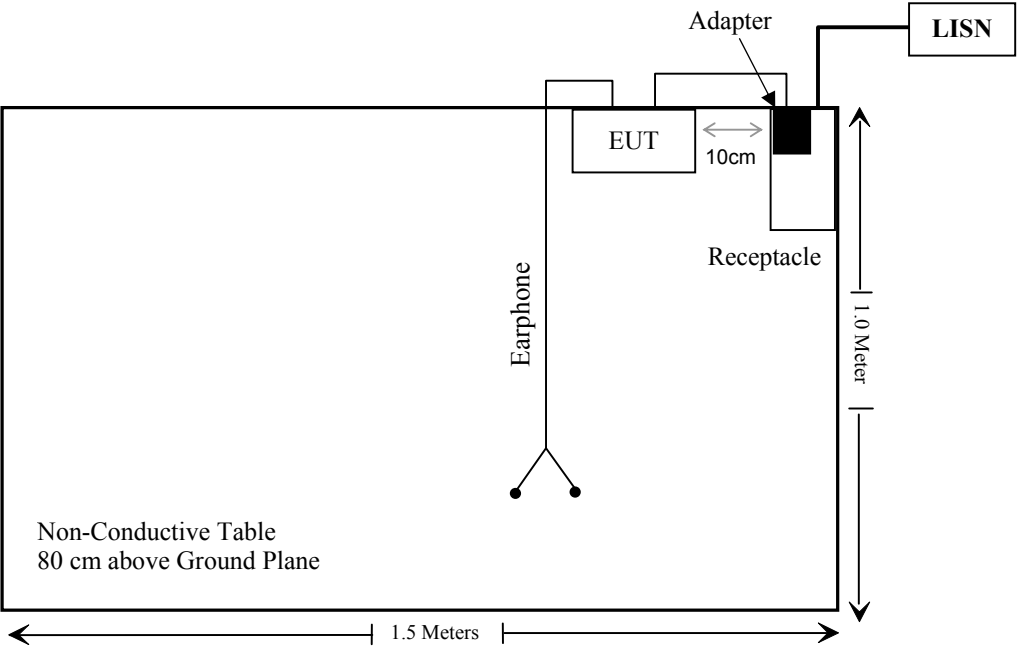
802.11g: Data rate: 6 Mbps, Power level: 9

802.11n-HT20: Data rate: MCS0, Power level: 9

External I/O Cable

Cable Description	Length (m)	From Port	To
Shielding Detachable USB Cable	0.9	EUT	PC
Un-shielding Detachable Earphone Cable	1.1	EUT	Earphone

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1)& §2.1093	RF Exposure	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 Conducted 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), §1.1307 (b) (1) & §2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 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.

The SAR data please refer to the SAR report, report No.: RSZ140609004-20.

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.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has one integral antenna arrangement for Wi-Fi, which was permanently attached and the antenna gain is 2.1 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

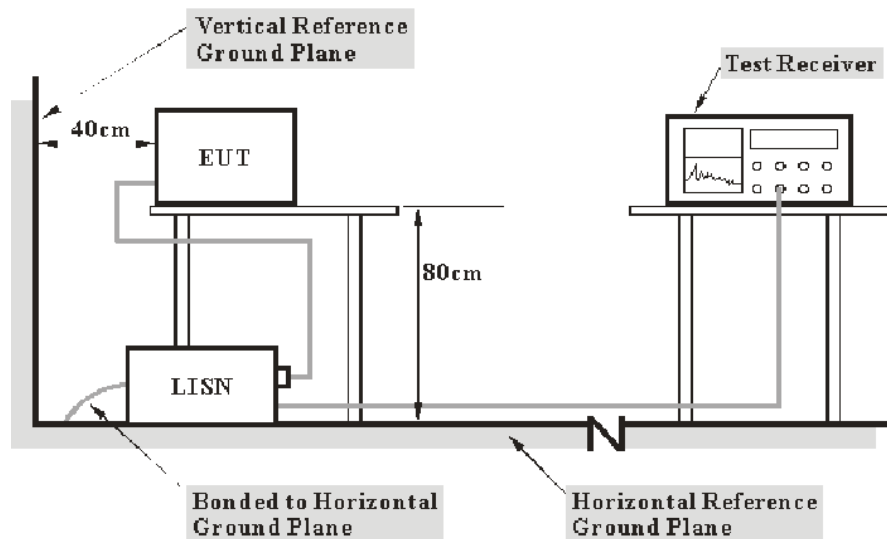
Measurement Uncertainty

Input quantities to be considered for conducted disturbance measurements may be receiver reading, attenuation of the connection between LISN and receiver, LISN voltage division factor, LISN VDF frequency interpolation and receiver related input quantities, etc.

Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of conducted disturbance test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will not be taken into consideration for the test data recorded in the report.

Port	Expanded Measurement uncertainty
AC Mains	3.26 dB (k=2, 95% level of confidence)
CAT 3	3.70 dB (k=2, 95% level of confidence)
CAT 5	3.86 dB (k=2, 95% level of confidence)
CAT 6	4.64 dB (k=2, 95% level of confidence)

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 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:

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

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of 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	ESCS30	100176	2014-06-03	2015-06-03
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2014-06-09	2015-06-09
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2014-05-14	2015-05-14
Rohde & Schwarz	CE Test software	EMC 32	V8.53	-	-

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

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

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

Test Results Summary

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

7.7 dB at 0.419670 MHz in the **Neutral** conducted mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

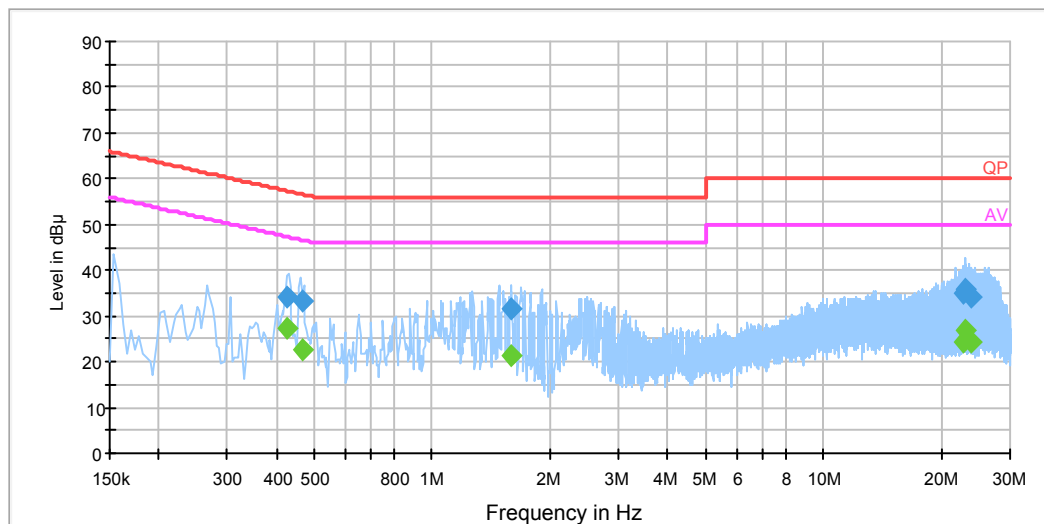
Test Data

Environmental Conditions

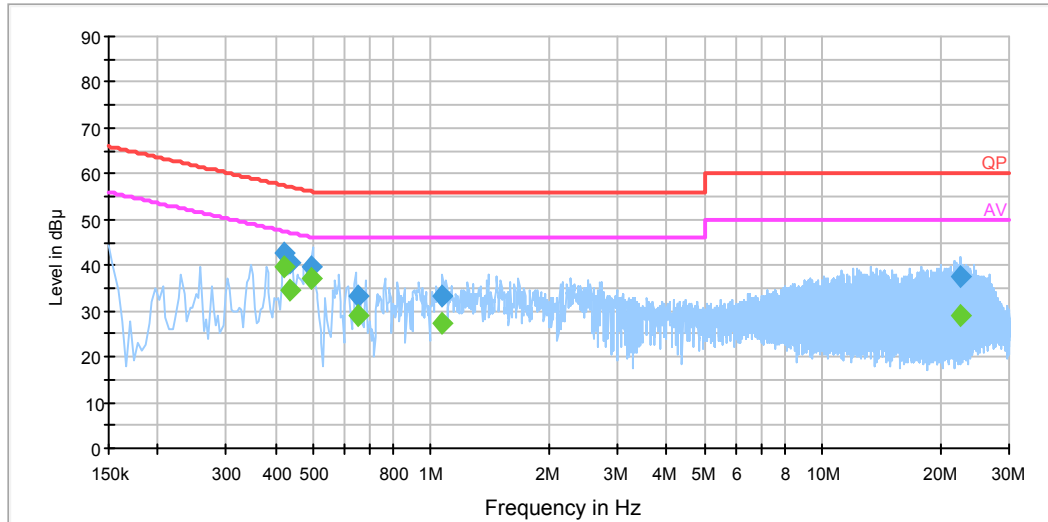
Temperature:	28 °C
Relative Humidity:	54 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2014-06-17.

EUT operation mode: Charging & Transmitting

AC 120V/60 Hz, Line**EMI Auto Test L**

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.423550	34.2	19.6	57.4	23.2	QP
0.423550	27.1	19.6	47.4	20.2	Ave.
0.468930	33.1	19.6	56.5	23.4	QP
0.468930	22.7	19.6	46.5	23.8	Ave.
1.594150	31.5	19.5	56.0	24.5	QP
1.594150	21.3	19.5	46.0	24.7	Ave.
22.892010	34.8	20.0	60.0	25.2	QP
22.892010	24.4	20.0	50.0	25.6	Ave.
23.123050	35.9	20.0	60.0	24.1	QP
23.123050	26.9	20.0	50.0	23.1	Ave.
23.718830	34.2	20.0	60.0	25.8	QP
23.718830	24.3	20.0	50.0	25.7	Ave.

AC 120V/60 Hz, Neutral**EMI Auto Test N**

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.419670	42.8	19.6	57.5	14.7	QP
0.419670	39.8	19.6	47.5	7.7	Ave.
0.435370	40.6	19.6	57.1	16.5	QP
0.435370	34.5	19.6	47.1	12.6	Ave.
0.494530	39.8	19.7	56.1	16.3	QP
0.494530	37.0	19.7	46.1	9.1	Ave.
0.651630	33.4	19.6	56.0	22.6	QP
0.651630	28.9	19.6	46.0	17.1	Ave.
1.061950	33.1	19.5	56.0	22.9	QP
1.061950	27.5	19.5	46.0	18.5	Ave.
22.455330	37.5	20.1	60.0	22.5	QP
22.455330	29.0	20.1	50.0	21.0	Ave.

Note:

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

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

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

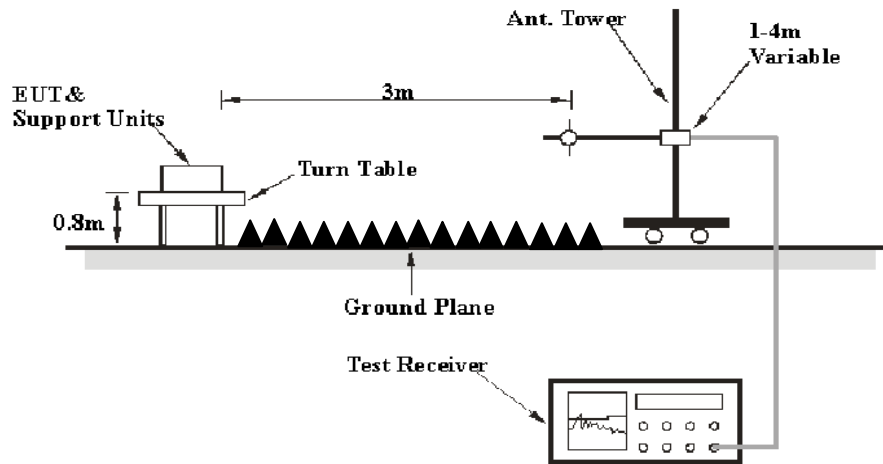
All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency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

Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of radiation emissions at Bay Area Compliance Laboratories Corp. (Shenzhen) is 5.91 dB for 30MHz-1GHz and 4.92 dB for above 1GHz, 1.95dB for conducted measurement at antenna port. And the uncertainty will not be taken into consideration for the test data recorded in the report

EUT Setup

Below 1 GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters 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 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:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447E	1937A01046	2014-05-06	2015-05-06
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2013-11-12	2014-11-12
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
Mini	Amplifier	ZVA-183-S+	5969001149	2014-04-23	2015-04-23
A.H. System	Horn Antenna	SAS-200/571	135	2012-02-11	2015-02-10
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2013-11-12	2014-11-12
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2013-10-14	2016-10-13
TDK	Chamber	Chamber A	2#	2012-10-15	2015-10-15
TDK	Chamber	Chamber B	1#	2011-07-23	2014-07-23
R&S	Auto test Software	EMC32	V9.10	--	--

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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 Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

13.40 at 9648.0 MHz in the Horizontal polarization for 802.11n-HT20 mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data**Environmental Conditions**

Temperature:	25~26 °C
Relative Humidity:	56~60 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2014-06-26 to 2014-07-01.

EUT operation mode: Transmitting

30 MHz-25 GHz:**802.11b Mode:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
221.3	47.52	QP	165	1.3	H	-15.7	31.56	46	14.44
2412.0	89.58	PK	320	1.8	H	6.13	95.71	/	/
2412.0	85.04	Ave.	320	1.8	H	6.13	91.17	/	/
2412.0	87.34	PK	256	1.1	V	6.13	93.47	/	/
2412.0	84.24	Ave.	256	1.1	V	6.13	90.37	/	/
2366.4	38.04	PK	89	1.2	V	5.48	43.52	74	30.48
2366.4	23.23	Ave.	89	1.2	V	5.48	28.71	54	25.29
2373.6	45.17	PK	311	2.2	H	5.48	50.65	74	23.35
2373.6	28.04	Ave.	311	2.2	H	5.48	33.52	54	20.48
2498.8	37.33	PK	352	2.1	H	7.21	44.54	74	29.46
2498.8	25.44	Ave.	352	2.1	H	7.21	32.65	54	21.35
4824.0	35.33	PK	207	2.4	V	12.44	47.77	74	26.23
4824.0	22.17	Ave.	207	2.4	V	12.44	34.61	54	19.39
7236.0	34.77	PK	46	2.5	H	17.06	51.83	74	22.17
7236.0	20.22	Ave.	46	2.5	H	17.06	37.28	54	16.72
9648.0	35.77	PK	216	1.4	V	19.28	55.05	74	18.95
9648.0	20.11	Ave.	216	1.4	V	19.28	39.39	54	14.61

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Middle Channel (2437 MHz)									
221.3	46.32	QP	209	1.1	H	-15.7	30.62	46	15.38
2437.0	88.47	PK	264	2.4	H	6.13	94.60	/	/
2437.0	84.64	Ave.	264	2.4	H	6.13	90.77	/	/
2437.0	87.23	PK	208	2.2	V	6.13	93.36	/	/
2437.0	83.28	Ave.	208	2.2	V	6.13	89.41	/	/
2373.5	35.42	PK	89	2.3	V	5.48	40.90	74	33.10
2373.5	22.27	Ave.	89	2.3	V	5.48	27.75	54	26.25
2484.9	34.13	PK	45	2.2	H	7.21	41.34	74	32.66
2484.9	21.36	Ave.	45	2.2	H	7.21	28.57	54	25.43
2489.0	33.04	PK	307	1.3	H	7.21	40.25	74	33.75
2489.0	20.26	Ave.	307	1.3	H	7.21	27.47	54	26.53
4874.0	36.14	PK	222	1.2	H	12.4	48.54	74	25.46
4874.0	22.17	Ave.	222	1.2	H	12.4	34.57	54	19.43
7311.0	34.21	PK	151	1.2	V	16.62	50.83	74	23.17
7311.0	21.14	Ave.	151	1.2	V	16.62	37.76	54	16.24
9748.0	34.16	PK	62	2.3	V	19.4	53.56	74	20.44
9748.0	21.04	Ave.	62	2.3	V	19.4	40.44	54	13.56
High Channel (2462 MHz)									
221.3	45.20	QP	127	1.1	H	-15.7	29.50	46	16.50
2462.0	88.13	PK	41	2.0	H	6.13	94.26	/	/
2462.0	85.01	Ave.	41	2.0	H	6.13	91.14	/	/
2462.0	87.51	PK	167	1.6	V	6.13	93.64	/	/
2462.0	84.34	Ave.	167	1.6	V	6.13	90.47	/	/
2387.9	35.47	PK	194	1.5	V	5.48	40.95	74	33.05
2387.9	22.37	Ave.	194	1.5	V	5.48	27.85	54	26.15
2484.7	37.64	PK	145	1.4	H	7.21	44.85	74	29.15
2484.7	26.22	Ave.	145	1.4	H	7.21	33.43	54	20.57
2496.3	36.55	PK	265	1.2	H	7.21	43.76	74	30.24
2496.3	21.33	Ave.	265	1.2	H	7.21	28.54	54	25.46
4924.0	35.44	PK	64	1.7	V	12.46	47.9	74	26.10
4924.0	22.07	Ave.	64	1.7	V	12.46	34.53	54	19.47
7386.0	36.11	PK	236	2.3	V	15.91	52.02	74	21.98
7386.0	21.66	Ave.	236	2.3	V	15.91	37.57	54	16.43
9848.0	34.88	PK	237	1.4	H	19.29	54.17	74	19.83
9848.0	20.23	Ave.	237	1.4	H	19.29	39.52	54	14.48

802.11g Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
221.3	46.03	QP	236	1.1	H	-15.7	30.33	46	15.67
2412.0	83.24	PK	205	1.9	H	6.13	89.37	/	/
2412.0	79.36	Ave.	205	1.9	H	6.13	85.49	/	/
2412.0	85.26	PK	318	1.5	V	6.13	91.39	/	/
2412.0	80.07	Ave.	318	1.5	V	6.13	86.20	/	/
2355.8	35.27	PK	81	1.1	H	5.48	40.75	74	33.25
2355.8	22.07	Ave.	81	1.1	H	5.48	27.55	54	26.45
2386.8	34.81	PK	354	2.2	H	5.48	40.29	74	33.71
2386.8	21.33	Ave.	354	2.2	H	5.48	26.81	54	27.19
2486.9	33.46	PK	54	1.7	V	7.21	40.67	74	33.33
2486.9	20.72	Ave.	54	1.7	V	7.21	27.93	54	26.07
4824.0	36.31	PK	216	1.1	H	12.44	48.75	74	25.25
4824.0	23.01	Ave.	216	1.1	H	12.44	35.45	54	18.55
7236.0	34.21	PK	194	1.1	H	17.06	51.27	74	22.73
7236.0	21.22	Ave.	194	1.1	H	17.06	38.28	54	15.72
9648.0	34.33	PK	349	2.2	V	19.28	53.61	74	20.39
9648.0	21.12	Ave.	349	2.2	V	19.28	40.4	54	13.60
Middle Channel (2437 MHz)									
221.3	47.34	QP	228	1.1	H	-15.7	31.64	46	14.36
2437.0	83.17	PK	96	1.1	H	6.13	89.30	/	/
2437.0	78.68	Ave.	96	1.1	H	6.13	84.81	/	/
2437.0	82.24	PK	35	1.9	V	6.13	88.37	/	/
2437.0	78.03	Ave.	35	1.9	V	6.13	84.16	/	/
2349.6	35.27	PK	265	1.8	V	5.48	40.75	74	33.25
2349.6	22.17	Ave.	265	1.8	V	5.48	27.65	54	26.35
2484.5	34.34	PK	92	1.1	H	7.21	41.55	74	32.45
2484.5	21.27	Ave.	92	1.1	H	7.21	28.48	54	25.52
2489.8	33.37	PK	111	1.2	H	7.21	40.58	74	33.42
2489.8	20.21	Ave.	111	1.2	H	7.21	27.42	54	26.58
4874.0	36.31	PK	191	2.0	H	12.4	48.71	74	25.29
4874.0	22.14	Ave.	191	2.0	H	12.4	34.54	54	19.46
7311.0	34.14	PK	342	2.0	V	16.62	50.76	74	23.24
7311.0	21.23	Ave.	342	2.0	V	16.62	37.85	54	16.15
9748.0	34.17	PK	120	1.3	H	19.4	53.57	74	20.43
9748.0	21.12	Ave.	120	1.3	H	19.4	40.52	54	13.48

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel (2462 MHz)									
221.3	47.90	QP	168	1.1	H	-15.7	32.20	46	13.80
2462.0	84.87	PK	321	1.2	H	6.13	91.00	/	/
2462.0	80.02	Ave.	321	1.2	H	6.13	86.15	/	/
2462.0	84.39	PK	314	2.4	V	6.13	90.52	/	/
2462.0	80.01	Ave.	314	2.4	V	6.13	86.14	/	/
2386.5	39.21	PK	132	1.7	V	5.48	44.69	74	29.31
2386.5	24.17	Ave.	132	1.7	V	5.48	29.65	54	24.35
2484.4	43.25	PK	322	2.3	H	7.21	50.46	74	23.54
2484.4	23.12	Ave.	322	2.3	H	7.21	30.33	54	23.67
2491.0	36.21	PK	14	2.0	H	7.21	43.42	74	30.58
2491.0	23.12	Ave.	14	2.0	H	7.21	30.33	54	23.67
4924.0	36.23	PK	268	1.3	V	12.46	48.69	74	25.31
4924.0	22.05	Ave.	268	1.3	V	12.46	34.51	54	19.49
7386.0	35.24	PK	186	1.3	V	15.91	51.15	74	22.85
7386.0	21.13	Ave.	186	1.3	V	15.91	37.04	54	16.96
9848.0	35.07	PK	78	1.9	H	19.29	54.36	74	19.64
9848.0	20.28	Ave.	78	1.9	H	19.29	39.57	54	14.43

802.11n-HT20 Mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
221.3	46.73	QP	158	1.1	H	-15.7	31.03	46	14.97
2412.0	83.56	PK	230	1.3	H	6.13	89.69	/	/
2412.0	79.21	Ave.	230	1.3	H	6.13	85.34	/	/
2412.0	82.64	PK	268	2.2	V	6.13	88.77	/	/
2412.0	79.34	Ave.	268	2.2	V	6.13	85.47	/	/
2342.7	35.46	PK	262	1.2	V	5.48	40.94	74	33.06
2342.7	22.31	Ave.	262	1.2	V	5.48	27.79	54	26.21
2389.5	34.75	PK	187	2.2	H	5.48	40.23	74	33.77
2389.5	21.34	Ave.	187	2.2	H	5.48	26.82	54	27.18
2486.1	33.17	PK	33	2.3	H	7.21	40.38	74	33.62
2486.1	20.47	Ave.	33	2.3	H	7.21	27.68	54	26.32
4824.0	36.36	PK	287	2.5	V	12.44	48.8	74	25.20
4824.0	23.78	Ave.	287	2.5	V	12.44	36.22	54	17.78
7236.0	34.43	PK	231	1.7	V	17.06	51.49	74	22.51
7236.0	21.51	Ave.	231	1.7	V	17.06	38.57	54	15.43
9648.0	34.65	PK	241	2.2	H	19.28	53.93	74	20.07
9648.0	21.32	Ave.	241	2.2	H	19.28	40.6	54	13.40
Middle Channel (2437 MHz)									
221.3	45.90	QP	150	1.1	H	-15.7	30.20	46	15.80
2437.0	83.21	PK	348	1.5	H	6.13	89.34	/	/
2437.0	79.01	Ave.	348	1.5	H	6.13	85.14	/	/
2437.0	82.36	PK	93	1.8	V	6.13	88.49	/	/
2437.0	79.65	Ave.	93	1.8	V	6.13	85.78	/	/
2360.5	35.13	PK	4	1.7	V	5.48	40.61	74	33.39
2360.5	22.21	Ave.	4	1.7	V	5.48	27.69	54	26.31
2484.2	34.25	PK	205	2.2	H	7.21	41.46	74	32.54
2484.2	21.36	Ave.	205	2.2	H	7.21	28.57	54	25.43
2489.8	33.42	PK	201	1.6	H	7.21	40.63	74	33.37
2489.8	20.58	Ave.	201	1.6	H	7.21	27.79	54	26.21
4874.0	36.13	PK	218	1.8	V	12.4	48.53	74	25.47
4874.0	23.26	Ave.	218	1.8	V	12.4	35.66	54	18.34
7311.0	34.14	PK	39	1.8	H	16.62	50.76	74	23.24
7311.0	21.32	Ave.	39	1.8	H	16.62	37.94	54	16.06
9748.0	34.23	PK	243	2.4	V	19.4	53.63	74	20.37
9748.0	21.14	Ave.	243	2.4	V	19.4	40.54	54	13.46

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel (2462 MHz)									
221.3	46.16	QP	225	1.1	H	-15.7	39.46	46	15.54
2462.0	82.34	PK	69	1.5	H	6.13	88.47	/	/
2462.0	78.58	Ave.	69	1.5	H	6.13	84.71	/	/
2462.0	82.37	PK	118	2.1	V	6.13	88.50	/	/
2462.0	79.47	Ave.	118	2.1	V	6.13	85.60	/	/
2348.3	37.24	PK	327	1.3	H	5.48	42.72	74	31.28
2348.3	27.31	Ave.	327	1.3	H	5.48	32.79	54	21.21
2389.8	43.68	PK	275	1.3	H	5.48	49.16	74	24.84
2389.8	28.21	Ave.	275	1.3	H	5.48	33.69	54	20.31
2483.5	37.35	PK	205	2.0	V	7.21	44.56	74	29.44
2483.5	21.27	Ave.	205	2.0	V	7.21	28.48	54	25.52
4924.0	35.68	PK	16	1.9	V	12.46	48.14	74	25.86
4924.0	23.41	Ave.	16	1.9	V	12.46	35.87	54	18.13
7386.0	35.33	PK	207	1.2	V	15.91	51.24	74	22.76
7386.0	20.15	Ave.	207	1.2	V	15.91	36.06	54	17.94
9848.0	34.29	PK	48	2.2	V	19.29	53.58	74	20.42
9848.0	20.28	Ave.	48	2.2	V	19.29	39.57	54	14.43

Note:

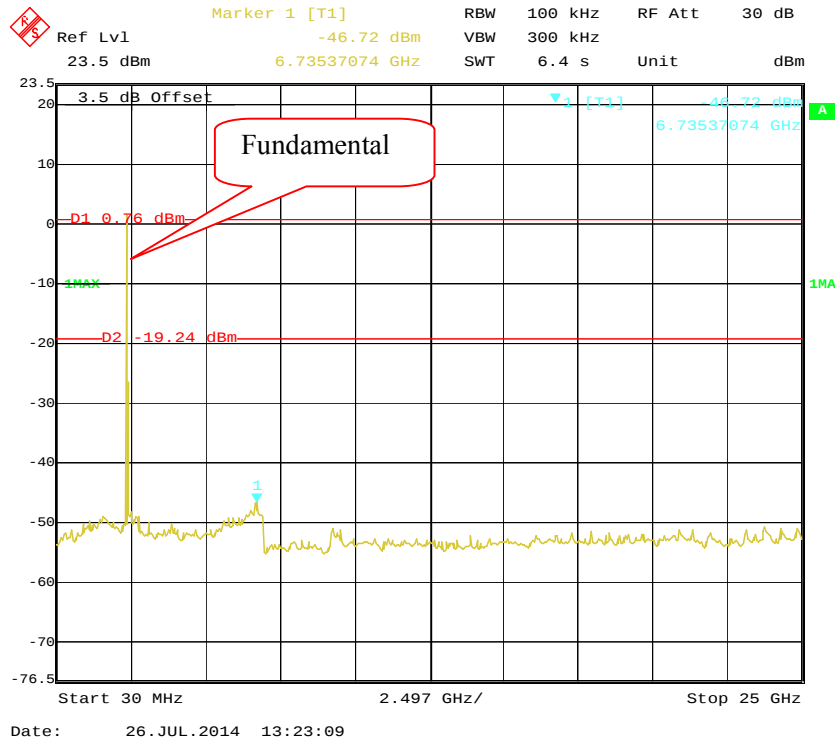
Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

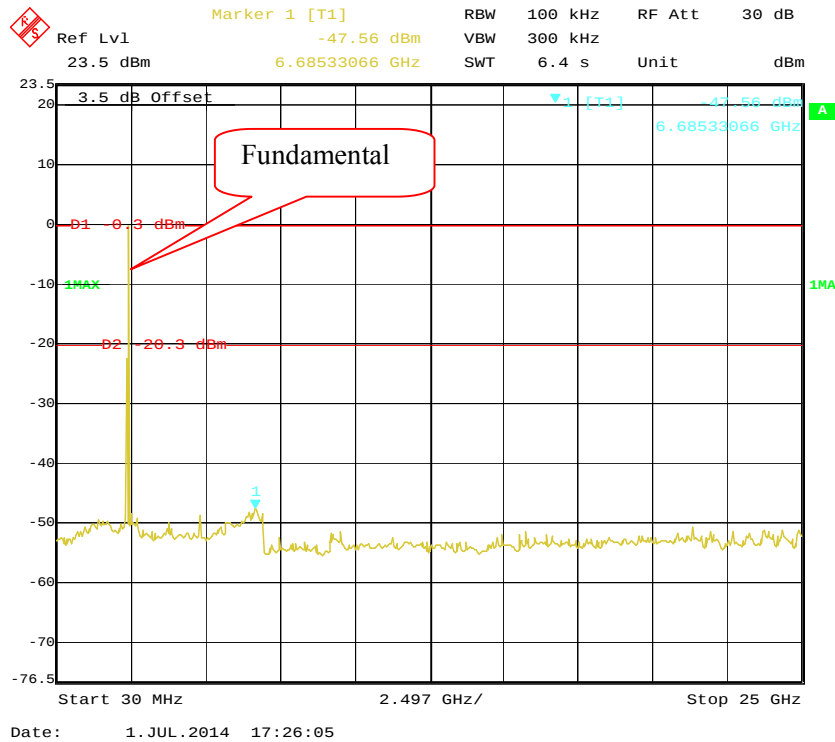
Margin = Limit - Corrected. Amplitude

Conducted Spurious Emissions at Antenna Port

802.11b Low Channel



802.11b Middle Channel



Ref Lvl 23.5 dBm Marker 1 [T1] -47.92 dBm RBW 100 kHz RF Att 30 dB
 6.68533066 GHz VBW 300 kHz SWT 6.4 s Unit dBm

3.5 dB Offset

Fundamental

D1 -1.16 dBm D2 -21.16 dBm

1MAX

1 [T1] -47.92 dBm 6.68533066 GHz

Start 30 MHz 2.497 GHz/ Stop 25 GHz

Date: 1. JUL. 2014 17:26:58

Ref Lvl 23.5 dBm Marker 1 [T1] -47.51 dBm RBW 100 kHz RF Att 30 dB
 3.5 dB Offset 6.73537074 GHz VBW 300 kHz SWT 6.4 s Unit dBm

23.5
 20
 10
 0
 -10
 -20
 -30
 -40
 -50
 -60
 -70
 -76.5

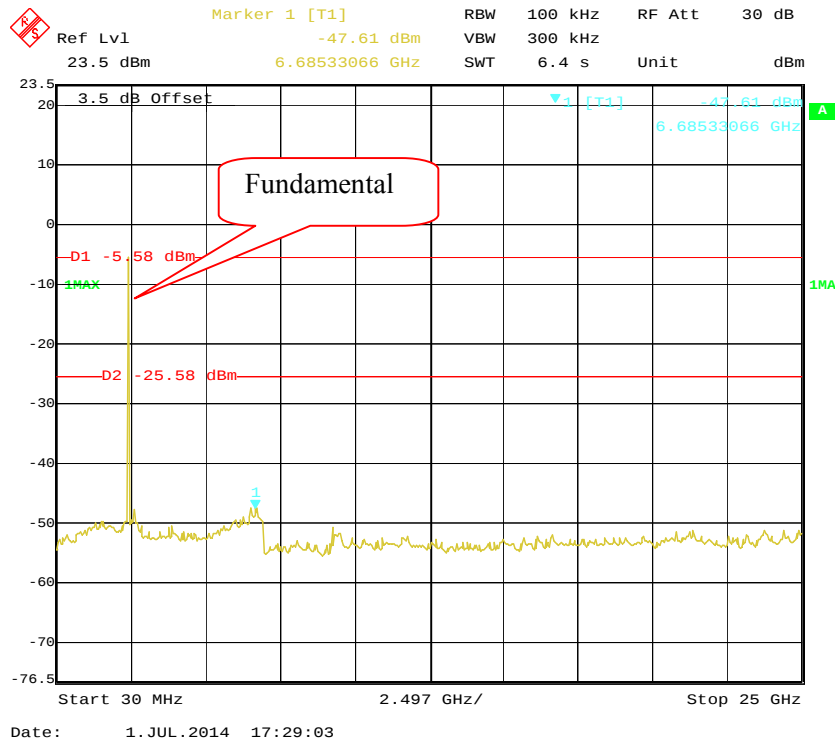
3.5 dB Offset
 -47.51 dBm
 6.73537074 GHz
 -3.48 dBm
 -23.48 dBm
 1
 2

Fundamental

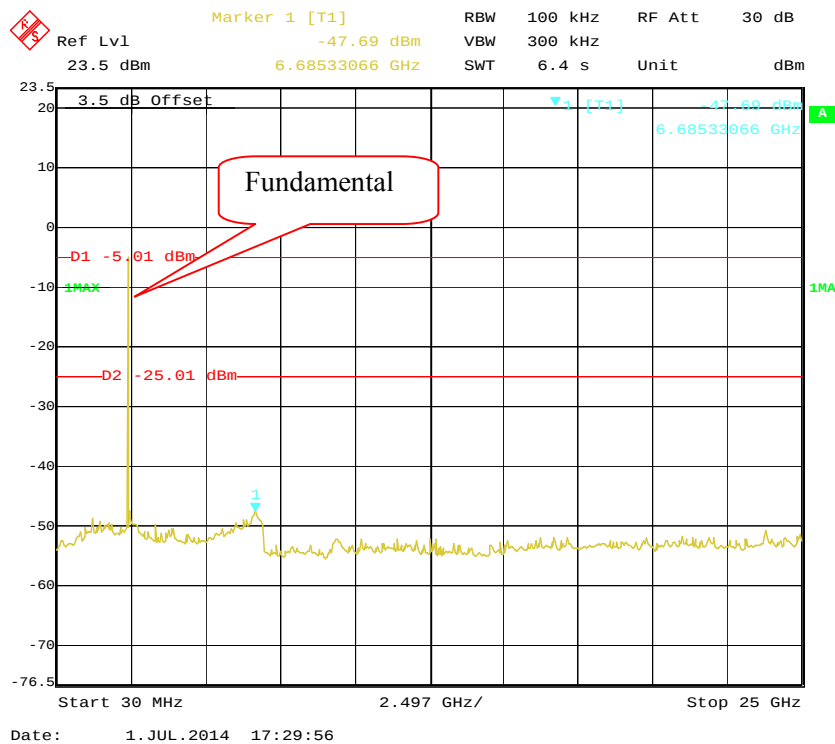
Start 30 MHz 2.497 GHz/ Stop 25 GHz

Date: 1. JUL. 2014 17:28:00

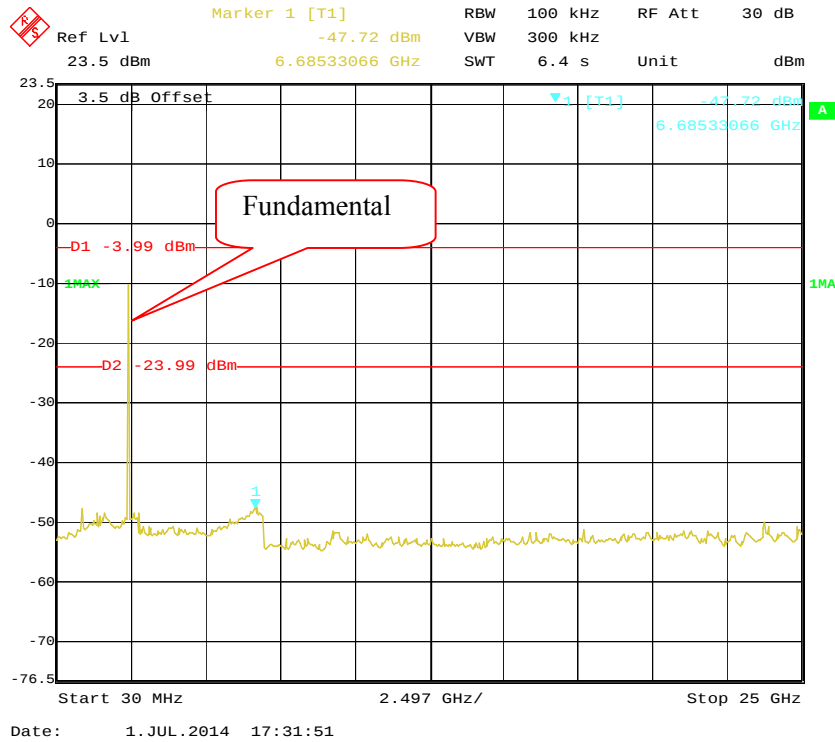
802.11g Middle Channel



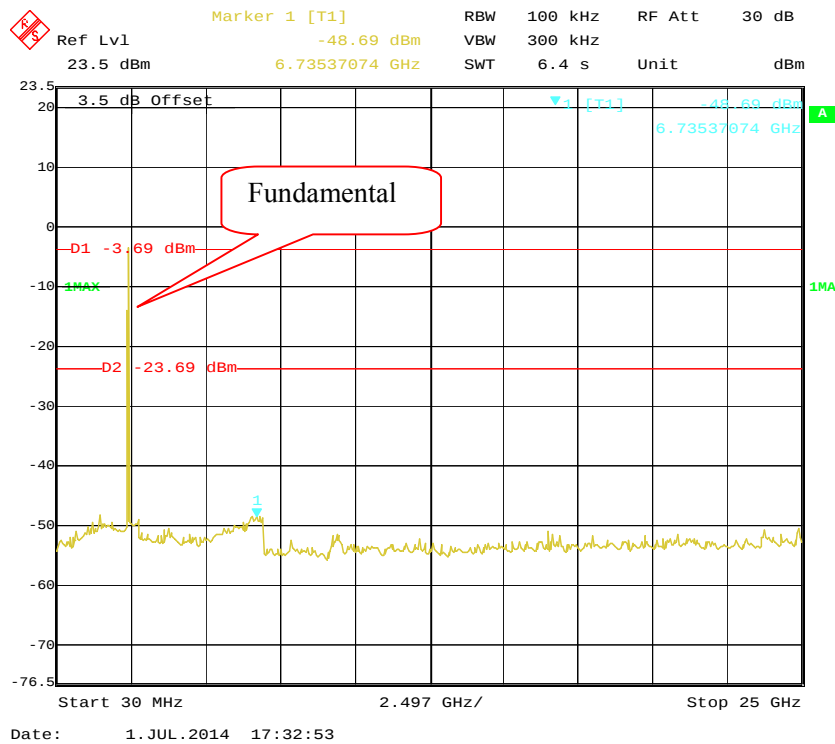
802.11g High Channel



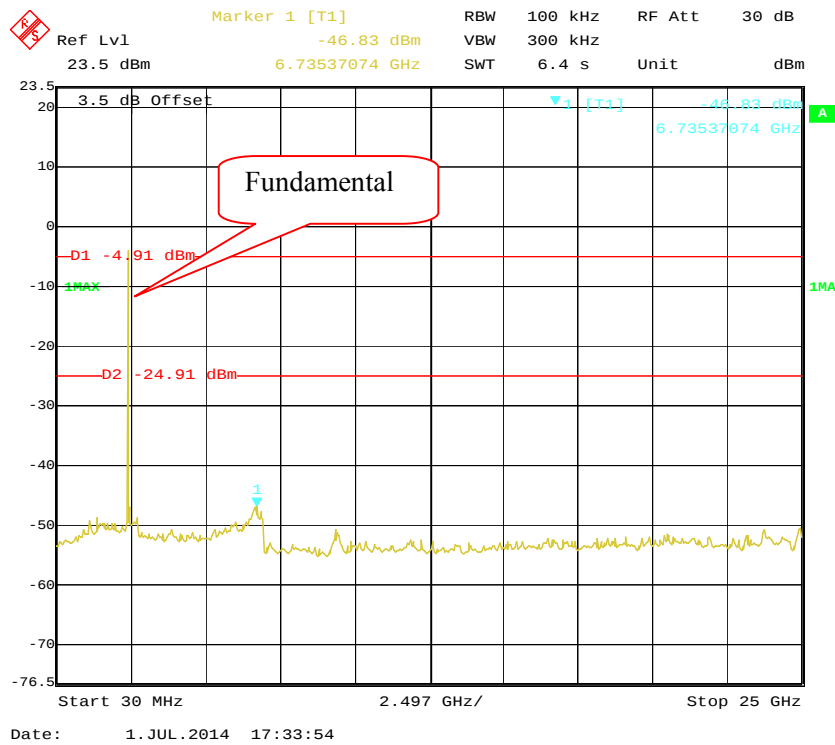
802.11n-HT20 Low Channel



802.11n-HT20 Middle Channel



802.11n-HT20 High Channel



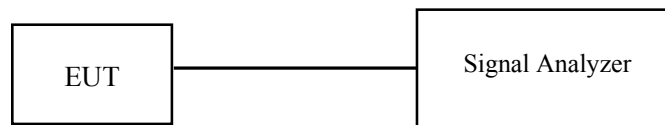
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

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	Signal Analyzer	FSIQ26	837405/023	2014-05-31	2015-05-31

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2014-07-01.

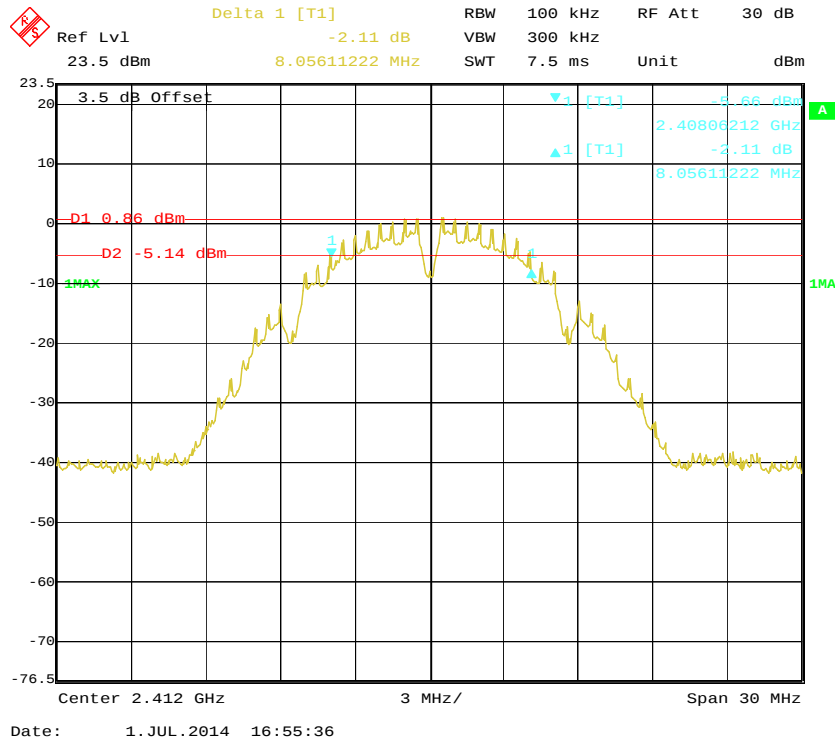
Test Result: Pass.

Please refer to the following tables and plots.

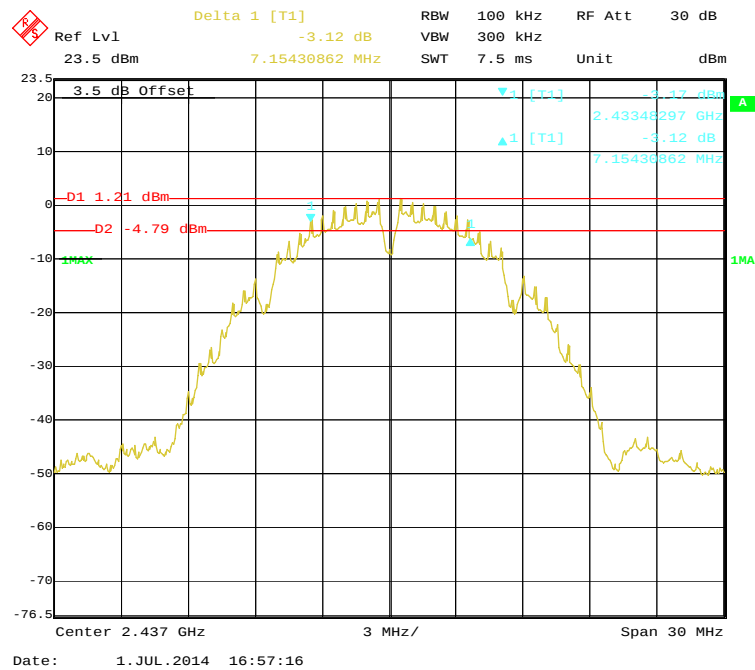
EUT operation mode: Transmitting

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)
802.11b mode			
Low	2412	8.06	≥ 500
Middle	2437	7.15	≥ 500
High	2462	7.15	≥ 500
802.11g mode			
Low	2412	16.53	≥ 500
Middle	2437	16.41	≥ 500
High	2462	16.53	≥ 500
802.11n-HT20 mode			
Low	2412	17.68	≥ 500
Middle	2437	17.56	≥ 500
High	2462	17.68	≥ 500

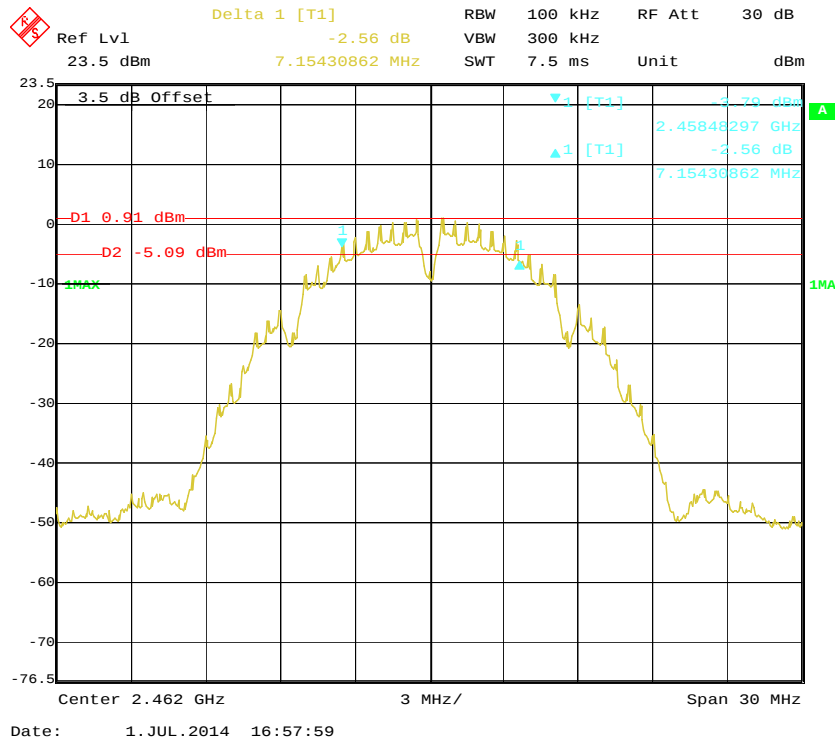
802.11b Low Channel



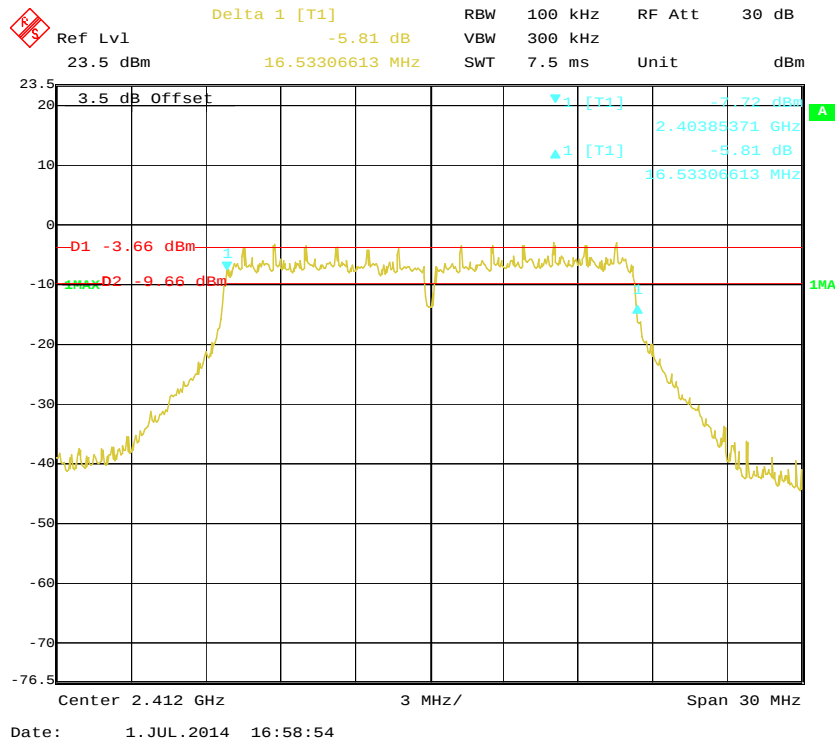
802.11b Middle Channel



802.11b High Channel



802.11g Low Channel



Ref Lvl 23.5 dBm Delta 1 [T1] -2.05 dB RBW 100 kHz RF Att 30 dB

3.5 dB Offset 16.41282565 MHz VBW 300 kHz Unit dBm

SWT 7.5 ms

3.5 dB Offset

D1 -3.32 dBm

D2 -9.32 dBm

Center 2.437 GHz

3 MHz/

Span 30 MHz

Date: 1. JUL. 2014 16:59:45

Delta 1 [T1] -0.43 dB RBW 100 kHz RF Att 30 dB
 Ref Lvl 23.5 dBm VBW 300 kHz Unit dBm
 23.5 dBm 16.53306613 MHz SWT 7.5 ms

3.5 dB Offset

23.5
20
10
0
-10
-20
-30
-40
-50
-60
-70
-76.5

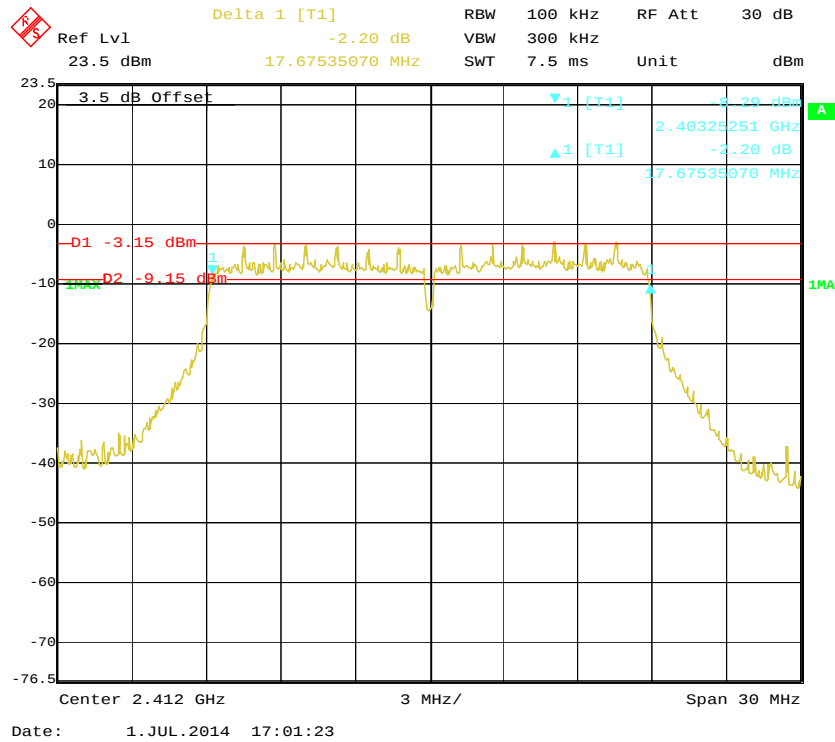
D1 -3.37 dBm
 D2 -9.37 dBm

1 [T1] -3.26 dBm
 2.45379359 GHz
 -0.43 dB
 16.53306613 MHz

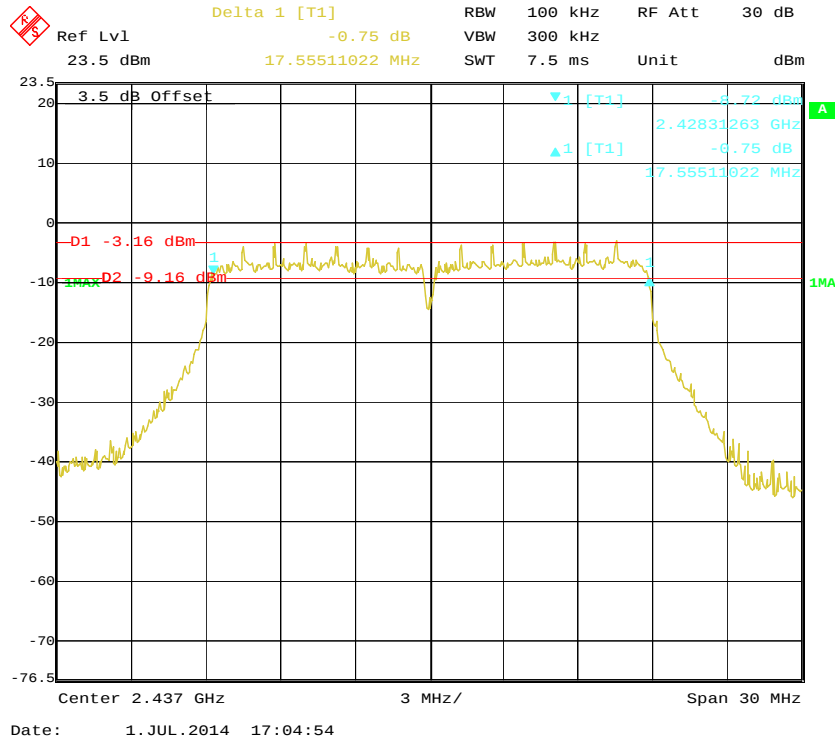
Center 2.462 GHz 3 MHz/ Span 30 MHz

Date: 1. JUL. 2014 17:00:30

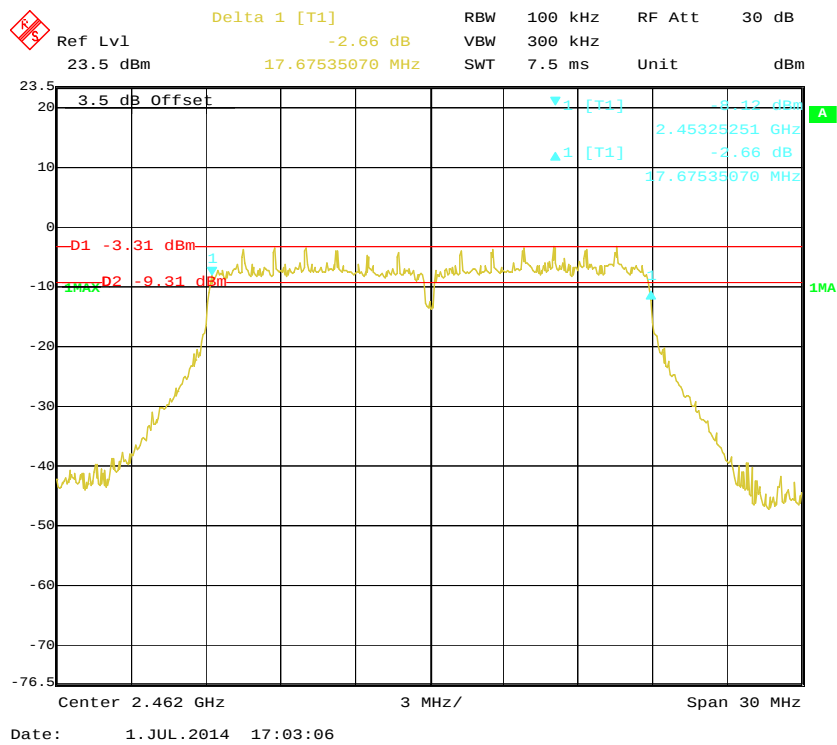
802.11n-HT20 Low Channel



802.11n-HT20 Middle Channel



802.11n-HT20 High Channel



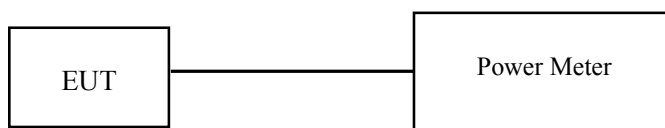
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

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 one test equipment.
3. Add a correction factor to the display.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Power Meter	EPM-441A	GB37481494	2013-11-24	2014-11-24
HP	Power Sensor	EPM-441A	GB37481494	2013-11-24	2014-11-24

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2014-07-01.

EUT operation mode: Transmitting

Output Power

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)
802.11b				
Low	2412	11.46	8.88	30
Middle	2437	11.11	8.86	30
High	2462	11.06	8.79	30
802.11g				
Low	2412	16.14	9.01	30
Middle	2437	15.99	8.86	30
High	2462	15.98	8.97	30
802.11n-HT20				
Low	2412	16.16	9.04	30
Middle	2437	16.04	9.02	30
High	2462	16.11	9.01	30

Note: The duty cycle is more than 98%.

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	Signal Analyzer	FSIQ26	837405/023	2014-05-31	2015-05-31

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

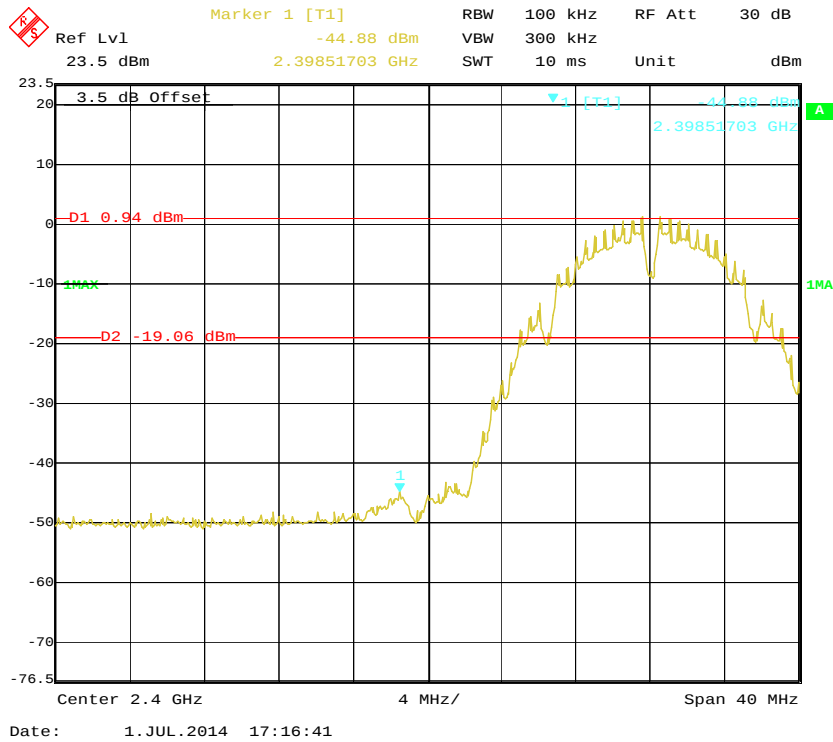
Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2014-07-041.

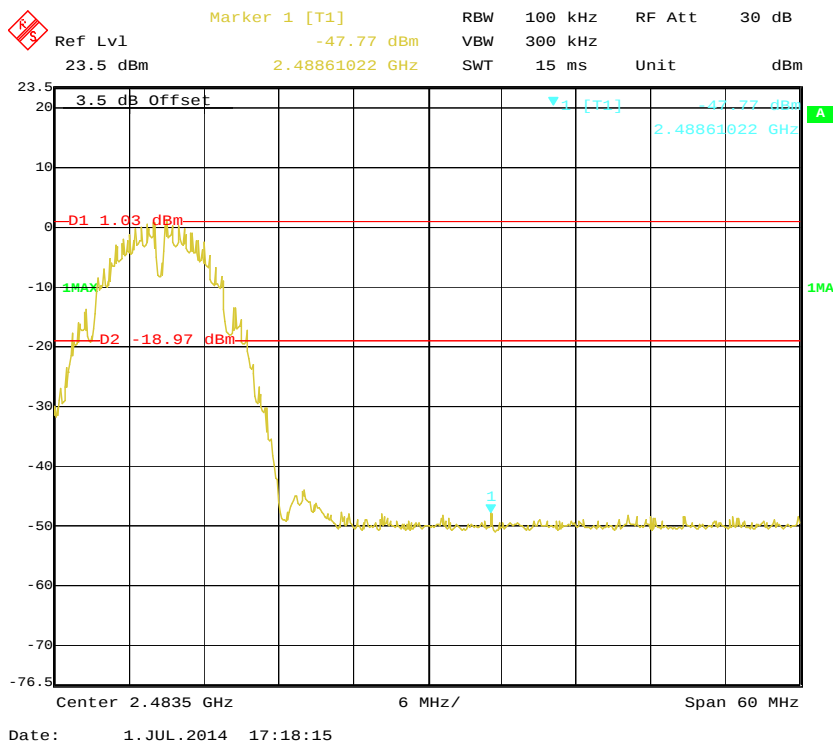
Test Result: Compliance

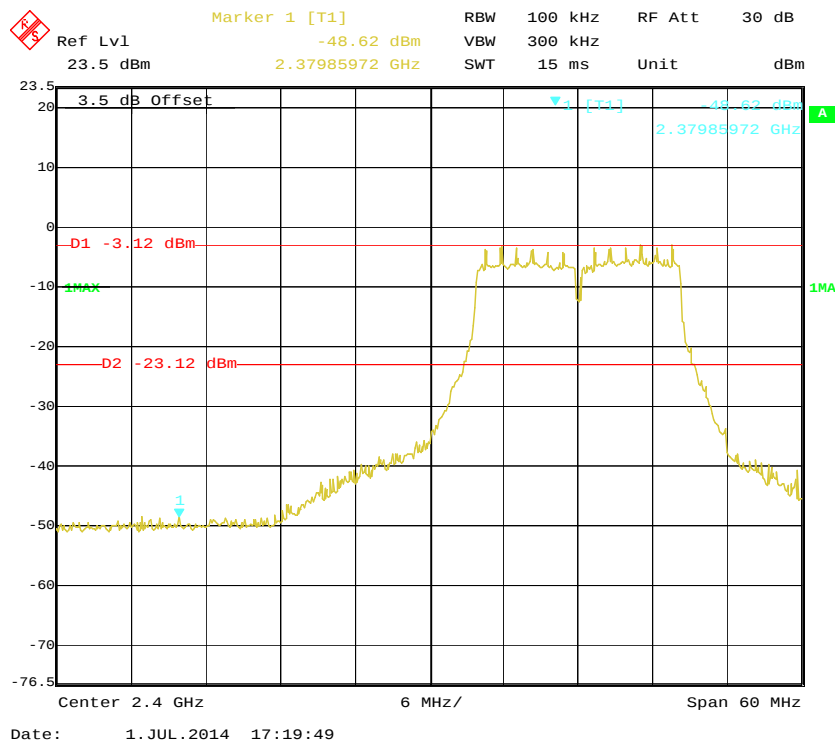
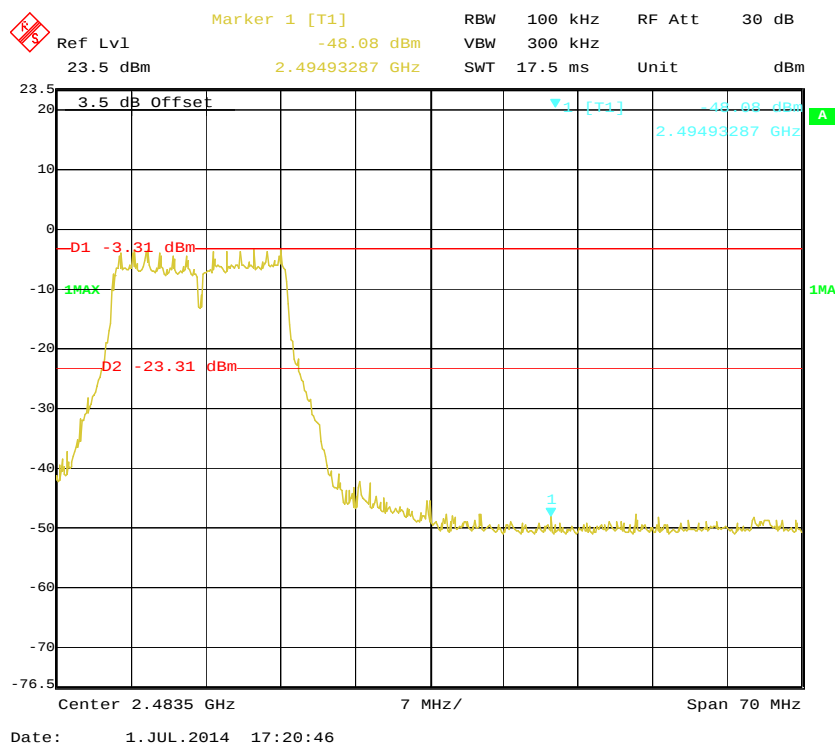
Please refer to the following plots.

802.11b: Band Edge, Left Side

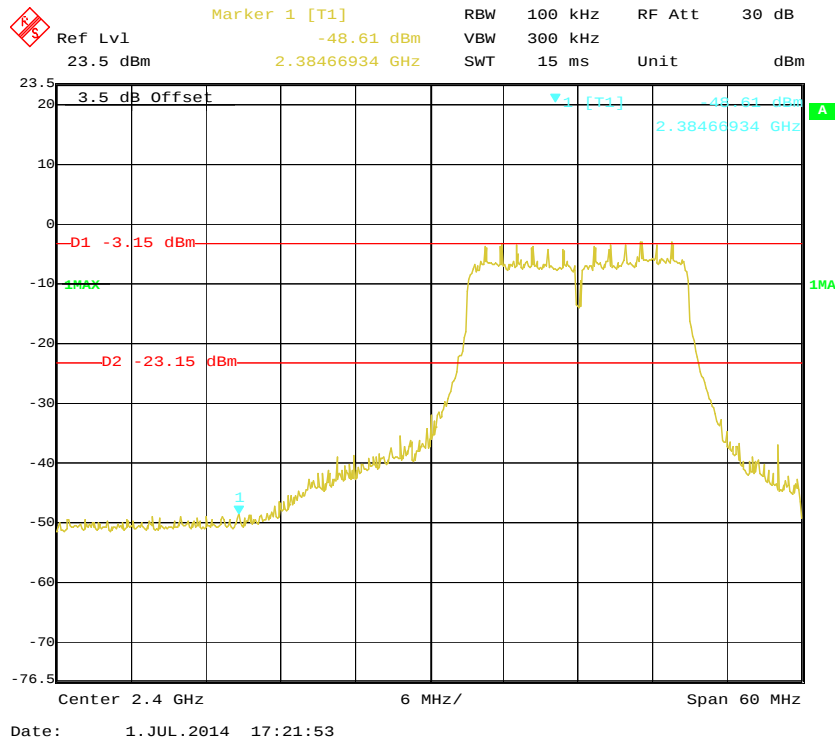


802.11b: Band Edge, Right Side

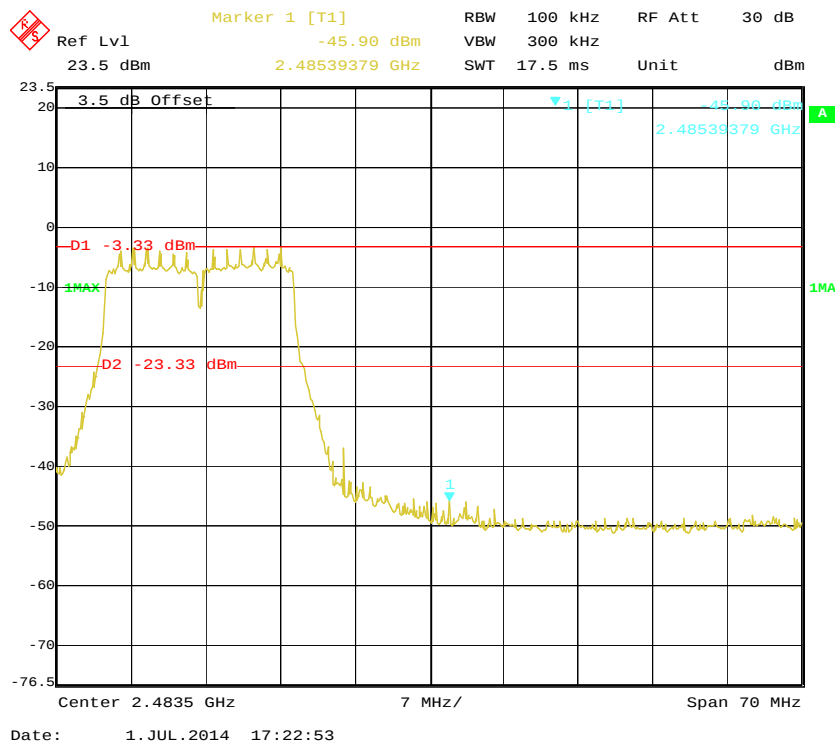


802.11g: Band Edge, Left Side**802.11g: Band Edge, Right Side**

802.11n-HT20: Band Edge, Left Side



802.11n-HT20: Band Edge, Right Side



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

According to KDB558074 D01 DTS Meas Guidance v03r02 sub-clause 10.2

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
3. Set the VBW $\geq 3 \times \text{RBW}$.
4. Set the span to 1.5 times the DTS bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	837405/023	2014-05-31	2015-05-31

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	25~26 °C
Relative Humidity:	56~60 %
ATM Pressure:	101.0 kPa

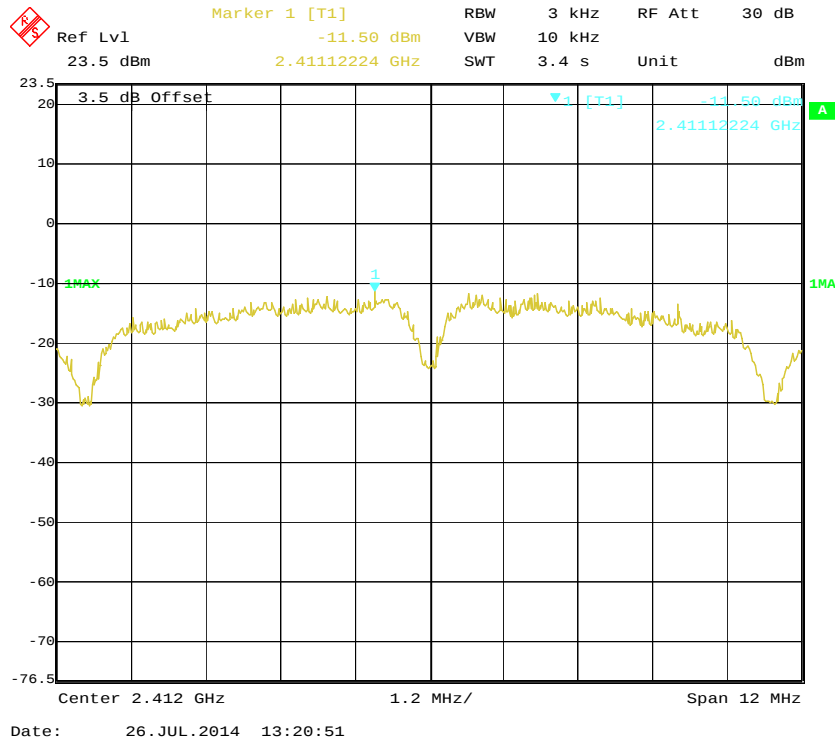
The testing was performed by Haiguo Li on 2014-07-01 to 2014-07-26.

EUT operation mode: Transmitting

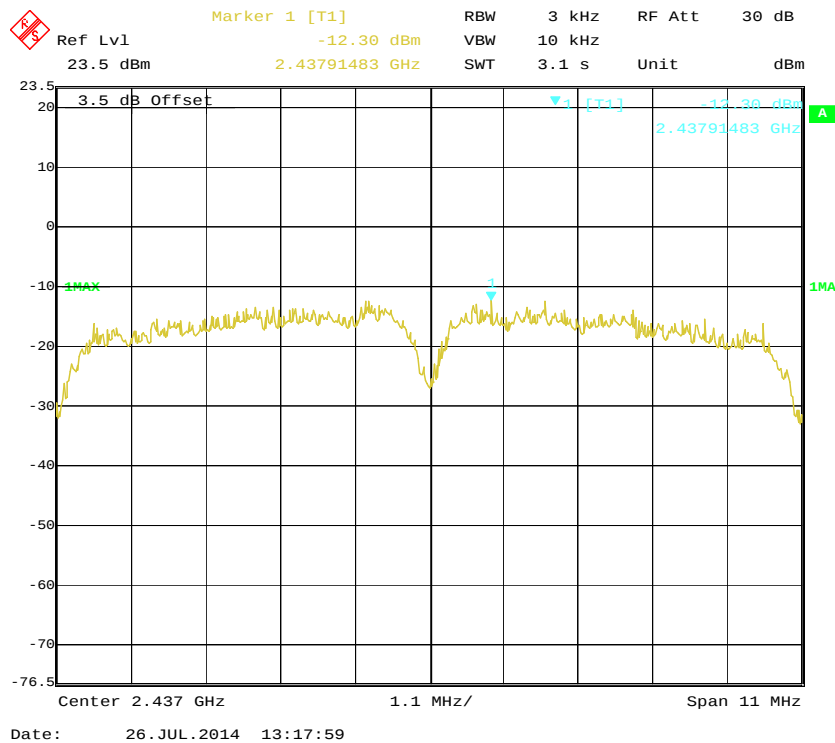
Test Result: Pass

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b mode			
Low	2412	-11.50	≤ 8
Middle	2437	-12.30	≤ 8
High	2462	-11.94	≤ 8
802.11g mode			
Low	2412	-17.35	≤ 8
Middle	2437	-16.97	≤ 8
High	2462	-17.92	≤ 8
802.11n-HT20 mode			
Low	2412	-15.83	≤ 8
Middle	2437	-17.39	≤ 8
High	2462	-16.85	≤ 8

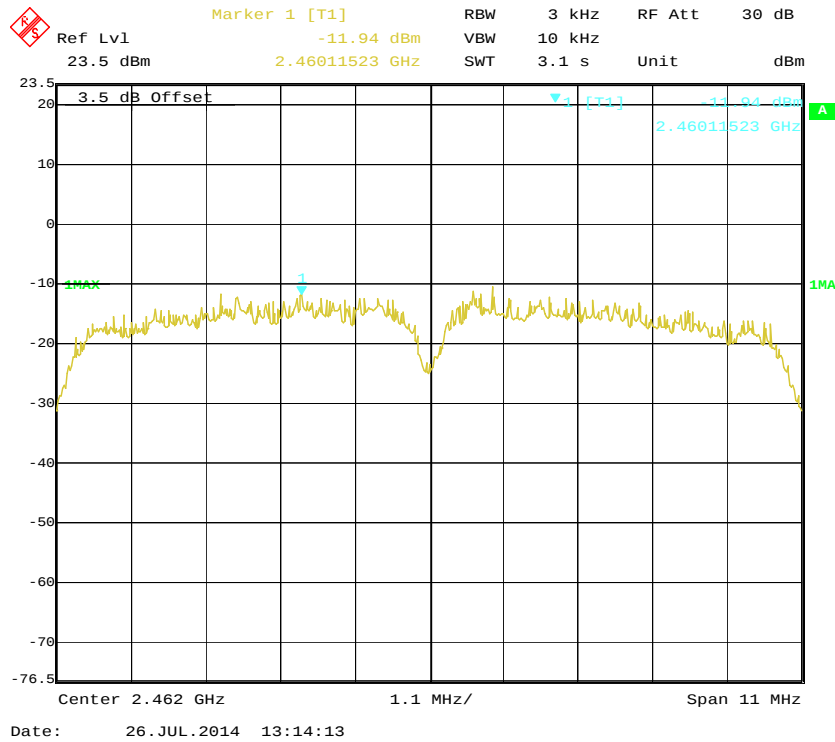
Power Spectral Density, 802.11b Low Channel



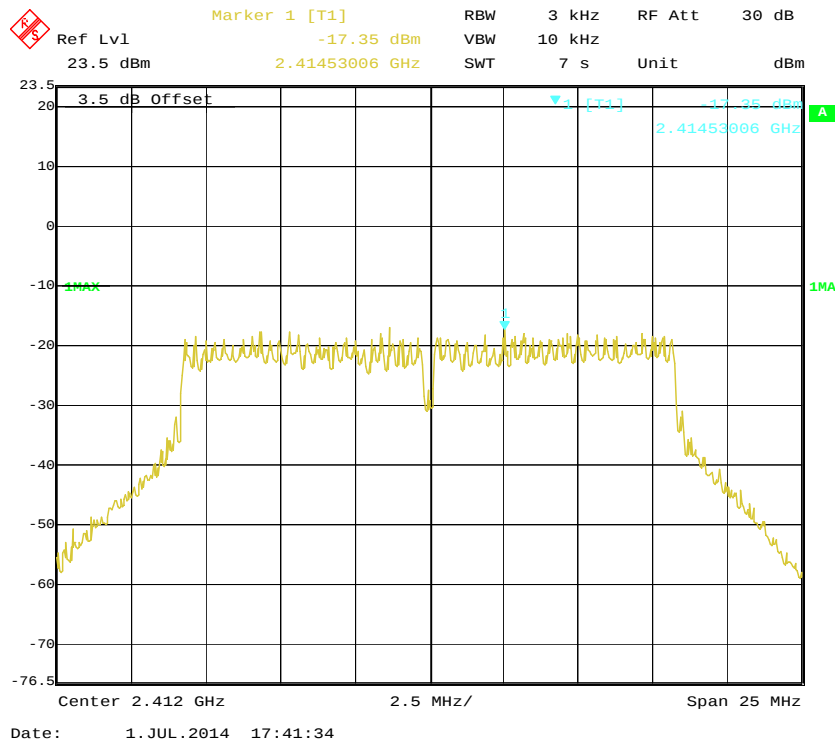
Power Spectral Density, 802.11b Middle Channel



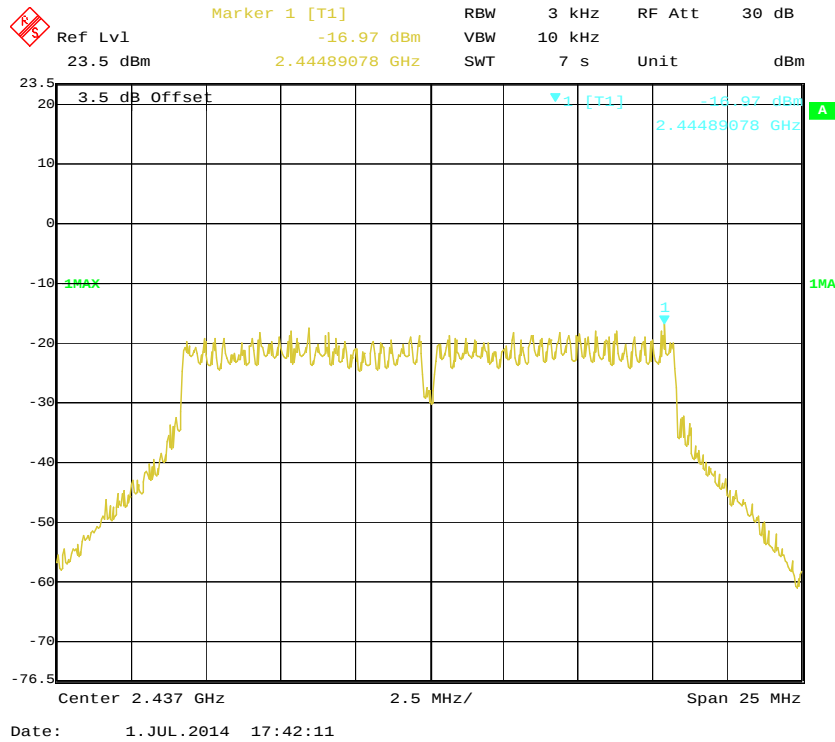
Power Spectral Density, 802.11b High Channel



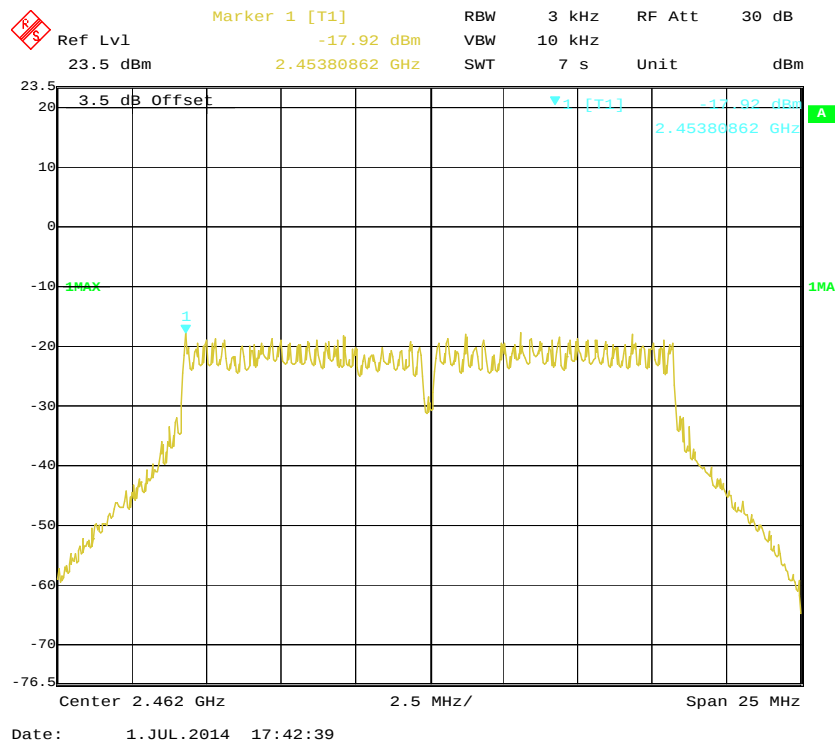
Power Spectral Density, 802.11g Low Channel



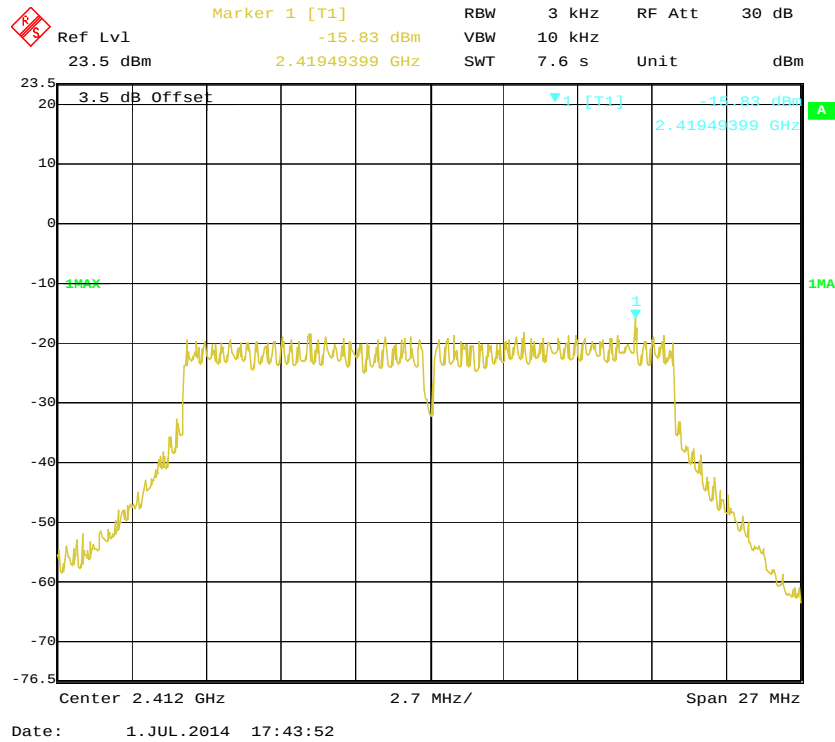
Power Spectral Density, 802.11g Middle Channel



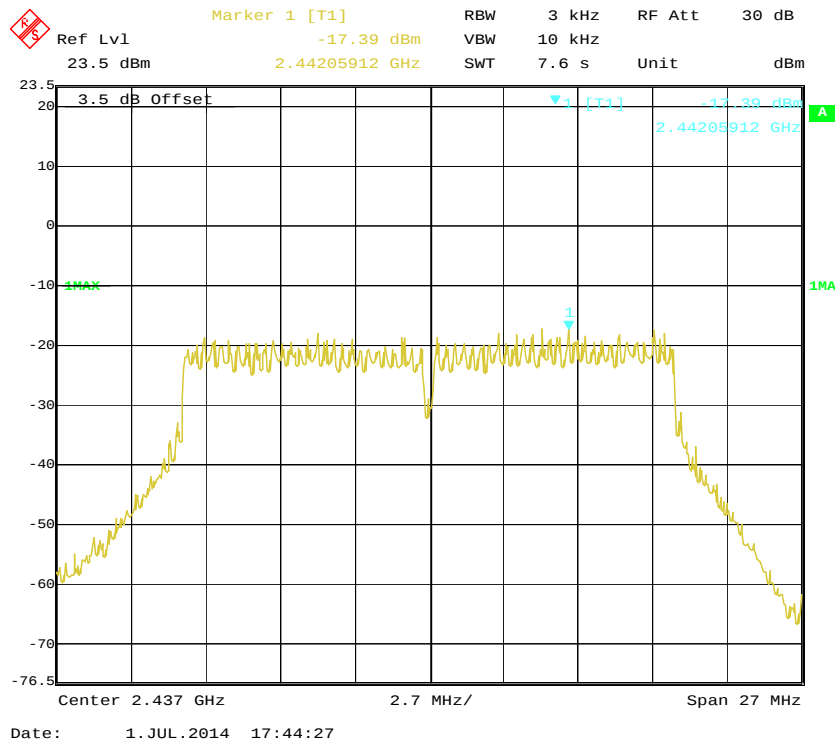
Power Spectral Density, 802.11g High Channel



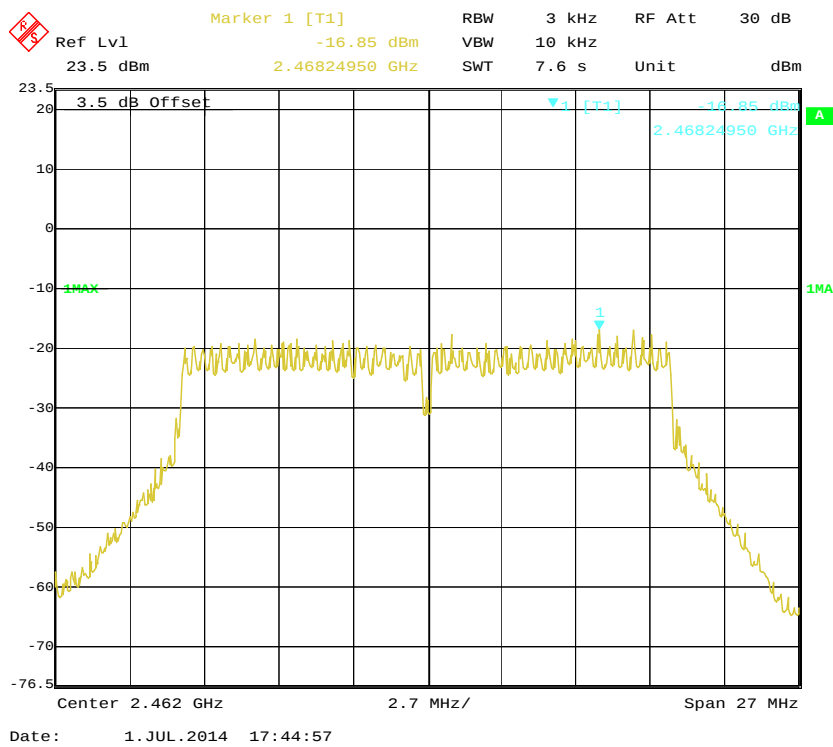
Power Spectral Density, 802.11n-HT20 Low Channel



Power Spectral Density, 802.11n-HT20 Middle Channel



Power Spectral Density, 802.11n-HT20 High Channel



PRODUCT SIMILARITY DECLARATION LETTER



DDM Brands LLC
1616 NW, 84TH Ave. Miami, Florida, U.S.A
Tel: +13057750325 Fax: +13057750325

2014-7-7

Product Similarity Declaration Letter

To Whom It May Concern,

We, DDM Brands LLC, hereby declare that our product Mobile Phone, the model YEZZ WP 47, WP47, WP47B, MONACO 47 and BILLY 4.7 are electrically identical, they have the same PCB layout and schematic, the only difference is the model number for the purpose of market.

The model YEZZ WP 47 was tested by BACL.

Please contact me if you have any question.

Signature:

Luis Sosa
CEO

A handwritten signature in black ink, appearing to be 'LS' or 'Luis Sosa', written over a light blue grid background.

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