FCC PART 15.247

TEST REPORT

For

b mobile HK Limited

G/F. 144 UN CHAU STREET, SHAM SHUI PO, KOWLOON, HONGKONG

FCC ID: ZSW-AX690-AX695

Report Type:	**Product Type:**
Original Report	Mobile Phone

Test Engineer:	Candy Li
Report Number:	RSZ131125001-00C
Report Date:	2013-12-03
Reviewed By:	Sula Huang RF Engineer
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *b mobile HK Limited*'s product, model number: *AX690 (FCC ID: ZSW-AX690-AX695)* or the "EUT" in this report was a *Mobile Phone,* which was measured approximately: 136.2 mm (L) x 67.8 mm (W) x 10.0 mm (H), rated with input voltage: DC 3.7 V rechargeable Li-ion battery or DC 5.0V charging from adapter.

Adapter Information:
Input: AC 100-240V, 50/60Hz 0.15A
Output: DC 5.0V 500mA

**All measurement and test data in this report was gathered from production sample serial number: 1311104 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2013-11-25.*

Objective

This report is prepared on behalf of *b mobile HK Limited* 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 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: ZSW-AX690-AX695

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.

For 802.11n-HT40 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.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

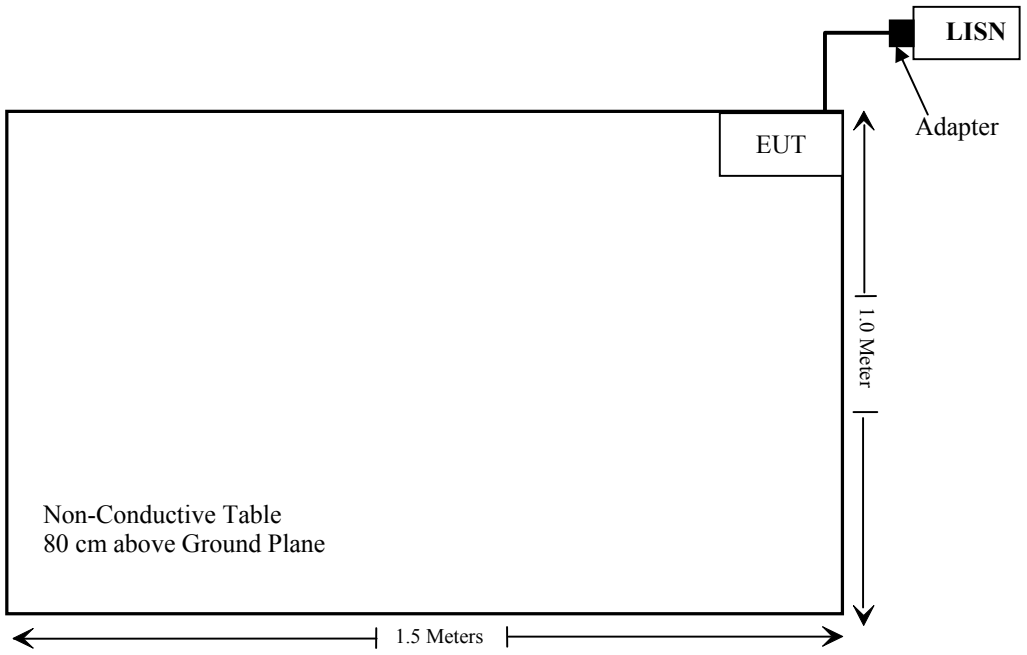
RF test tool build-in the EUT.

The test was performed under:
802.11b: Data rate: 1 Mbps, Power level: 9
802.11g: Data rate: 6 Mbps, Power level: 3
802.11n-HT20: Data rate: MCS0, Power level: 2
802.11n-HT40: Data rate: MCS0, Power level: 0

External I/O Cable

Cable Description	Length (m)	From Port	To
Shielding Detachable USB Cable	1.0	EUT	Adapter

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 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), §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.

According to KDB 447498 D01 General RF Exposure Guidance v05

Result

According to FCC KDB 447498 D01 General RF Exposure Guidance v05 generic portable criteria

The distance between antenna and test point is 5 mm
The maximum peak conducted output power: 9.69 dBm (9.31mW)

According to the Appendix A of KDB 447498, the exclusion thresholds for 2450 MHz is 10 mW.

Conclusion:

The time-averaged output power is 9.31 mW ＜the exclusion thresholds 10 mW, so stand-alone SAR evaluation is not required.

The other SAR data please refer to the SAR report, report No.: RSZ131125001-20.

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, the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the internal photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

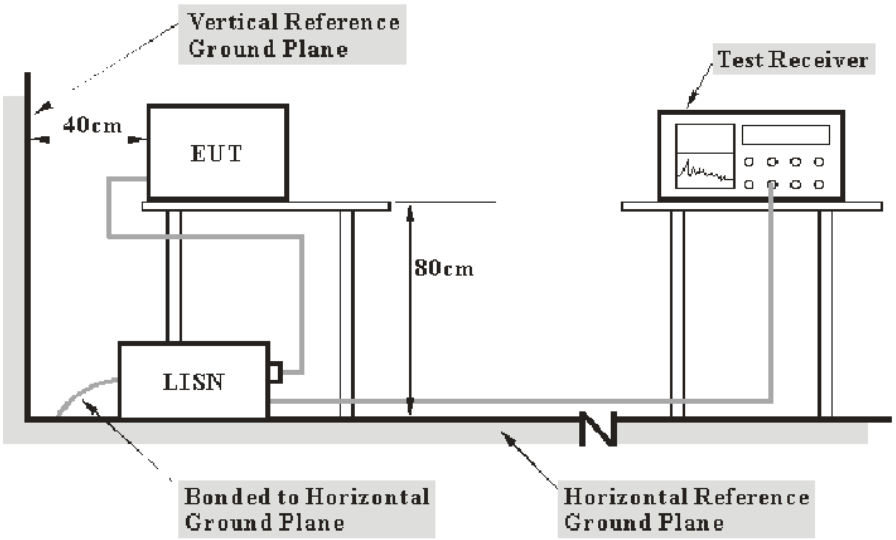
Measurement Uncertainty

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

Based on CISPR 16-4-2:2011, the expended 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	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	2013-06-17	2014-06-17
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2013-05-07	2014-05-07
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2013-10-15	2014-10-15
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/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN/ISN VDF + Cable Loss + 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:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, with the worst margin reading of:

9.5 dB at **0.334000 MHz** in the **Neutral** conducted mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance 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

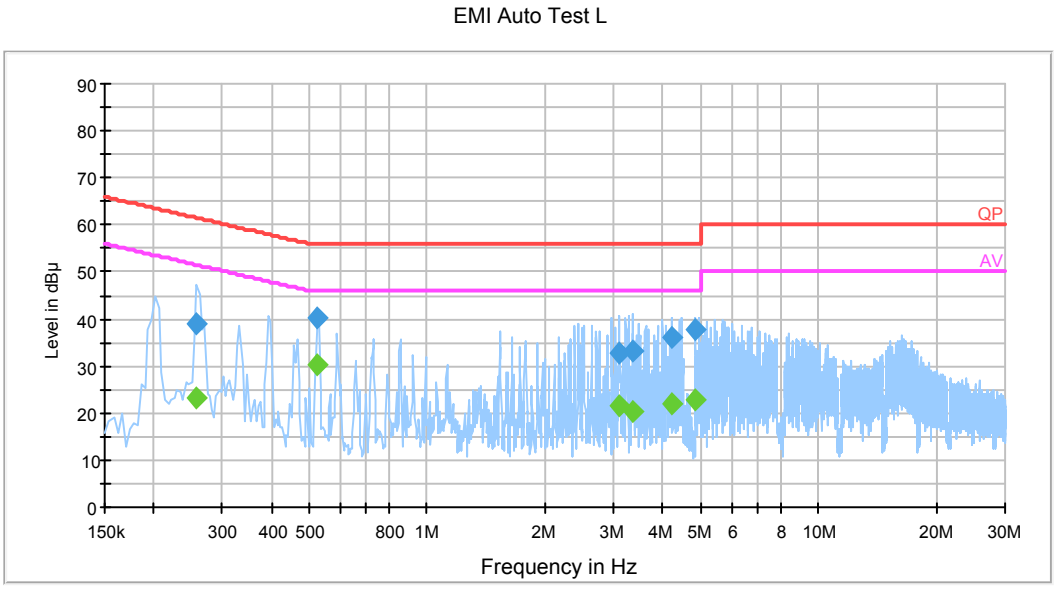
Environmental Conditions

Temperature:	24 ℃
Relative Humidity:	50 %
ATM Pressure:	100.1 kPa

The testing was performed by Candy Li on 2013-11-27.

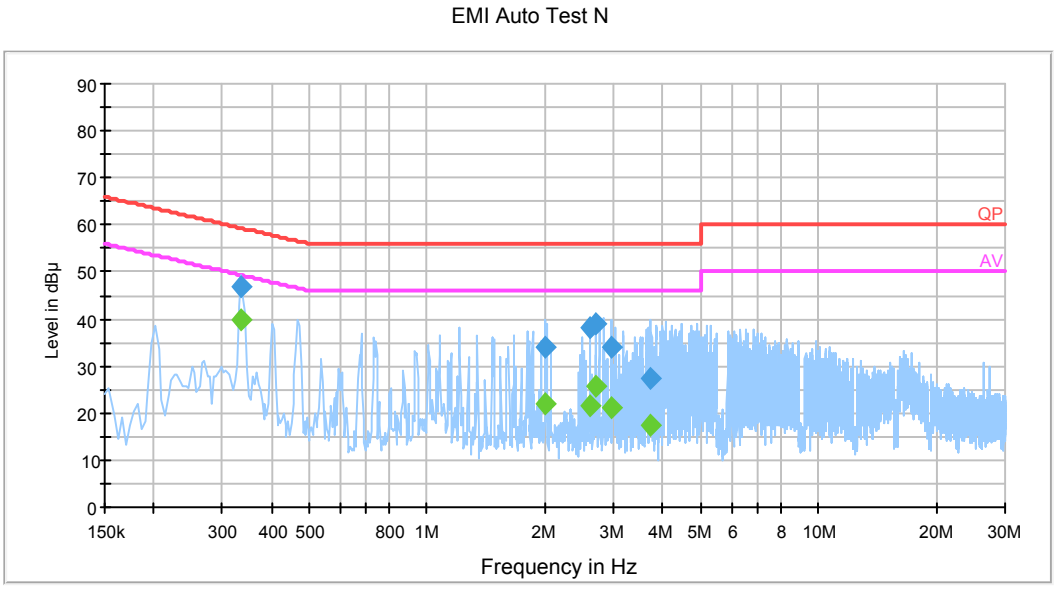
EUT operation mode: Charging & transmitting

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.258000	39.0	19.5	61.5	22.5	QP
0.258000	23.2	19.5	51.5	28.3	Ave.
0.526000	40.0	19.5	56.0	16.0	QP
0.526000	30.5	19.5	46.0	15.5	Ave.
3.086000	32.9	19.6	56.0	23.1	QP
3.086000	21.4	19.6	46.0	24.6	Ave.
3.346000	33.0	19.6	56.0	23.0	QP
3.346000	20.4	19.6	46.0	25.6	Ave.
4.202000	36.1	19.6	56.0	19.9	QP
4.202000	22.0	19.6	46.0	24.0	Ave.
4.862000	37.8	19.6	56.0	18.2	QP
4.862000	22.9	19.6	46.0	23.1	Ave.

AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.334000	46.9	19.5	59.4	12.5	QP
0.334000	39.9	19.5	49.4	9.5	Ave.
2.010000	34.0	19.6	56.0	22.0	QP
2.010000	22.0	19.6	46.0	24.0	Ave.
2.614000	38.1	19.6	56.0	17.9	QP
2.614000	21.7	19.6	46.0	24.3	Ave.
2.706000	39.1	19.6	56.0	16.9	QP
2.706000	25.6	19.6	46.0	20.4	Ave.
2.962000	33.9	19.6	56.0	22.1	QP
2.962000	21.1	19.6	46.0	24.9	Ave.
3.738000	27.3	19.6	56.0	28.7	QP
3.738000	17.3	19.6	46.0	28.7	Ave.

Note:
1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
The corrected factor has been input into the transducer of the test software.
2) Corrected Amplitude = Reading + Correction Factor
3) Margin = Limit – Corrected Amplitude

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

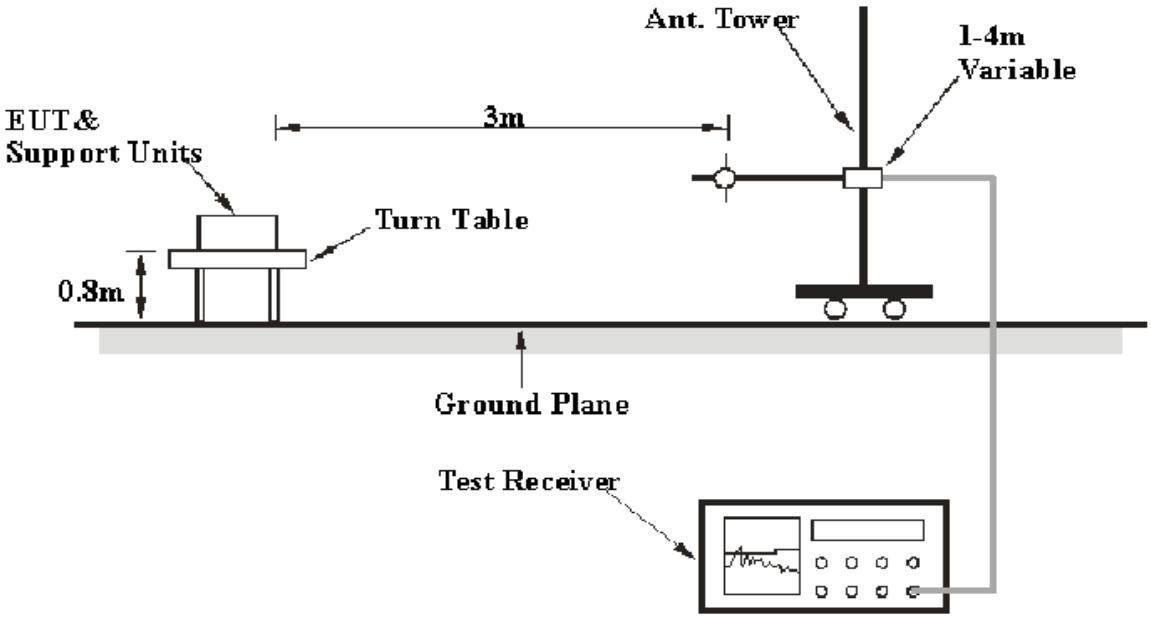
Applicable Standard

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.

EUT Setup



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.

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	8447E	1937A01046	2013-09-30	2014-09-30
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	Pre-amplifier	ZVA-183-S+	5969001149	2013-04-03	2014-04-03
Sunol Sciences	Horn Antenna	DRH-118	A052304	2011-12-01	2014-11-30
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
R&S	Auto test Software	EMC32	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 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:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - 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:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, with the worst margin reading of:

12.50 dB at **4874 MHz** in the **Horizontal** polarization for 802.11b Mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance 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 ℃
Relative Humidity:	56 %
ATM Pressure:	100.1 kPa

The testing was performed by Candy Li from 2013-11-28.

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)									
612.16	29.09	QP	150	1.7	V	-8.8	20.29	46	25.71
2412	89.47	PK	120	1.6	H	6.13	95.60	/	/
2412	83.85	Ave.	120	1.6	H	6.13	89.98	/	/
2412	84.27	PK	173	2.0	V	6.13	90.40	/	/
2412	79.65	Ave.	173	2.0	V	6.13	85.78	/	/
4824	34.26	PK	6	1.7	H	12.40	46.66	74	27.34
4824	21.43	Ave.	6	1.7	H	12.40	33.83	54	20.17
7236	32.09	PK	247	1.4	H	16.62	48.71	74	25.29
7236	20.14	Ave.	247	1.4	H	16.62	36.76	54	17.24
9648	31.77	PK	14	1.0	V	19.29	51.06	74	22.94
9648	19.88	Ave.	14	1.0	V	19.29	39.17	54	14.83
2386.3	37.39	PK	263	1.8	H	6.13	43.52	74	30.48
2386.3	22.26	Ave.	263	1.8	H	6.13	28.39	54	25.61
2383.0	37.70	PK	239	1.5	V	6.13	43.83	74	30.17
2383.0	22.51	Ave.	239	1.5	V	6.13	28.64	54	25.36
2497.2	34.79	PK	270	1.1	H	7.21	42.00	74	32.00
2497.2	20.97	Ave.	270	1.1	H	7.21	28.18	54	25.82
Middle Channel (2437 MHz)									
612.16	29.10	QP	237	1.5	V	-8.8	20.30	46	25.7
2437	86.93	PK	196	1.7	H	6.13	93.06	/	/
2437	82.05	Ave.	196	1.7	H	6.13	88.18	/	/
2437	86.44	PK	215	2.0	V	6.13	92.57	/	/
2437	81.91	Ave.	215	2.0	V	6.13	88.04	/	/
4874	36.51	PK	13	1.4	H	12.46	48.97	74	25.03
4874	29.04	Ave.	13	1.4	H	12.46	41.50	54	12.50
7311	34.39	PK	233	1.4	V	16.49	50.88	74	23.12
7311	22.01	Ave.	233	1.4	V	16.49	38.50	54	15.50
9748	31.89	PK	106	1.9	H	19.40	51.29	74	22.71
9748	19.84	Ave.	106	1.9	H	19.40	39.24	54	14.76
2375.5	36.91	PK	136	1.8	H	6.13	43.04	74	30.96
2375.5	22.26	Ave.	136	1.8	H	6.13	28.39	54	25.61
2491.5	36.61	PK	342	1.3	H	7.21	43.82	74	30.18
2491.5	21.40	Ave.	342	1.3	H	7.21	28.61	54	25.39
2486.6	35.49	PK	50	1.5	H	7.21	42.70	74	31.30
2486.6	21.17	Ave.	50	1.5	H	7.21	28.38	54	25.62

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)									
612.16	29.04	QP	87	2.1	V	-8.8	20.24	46	25.76
2462	88.63	PK	229	1.4	H	7.21	95.84	/	/
2462	82.69	Ave.	229	1.4	H	7.21	89.90	/	/
2462	85.74	PK	238	1.3	V	7.21	92.95	/	/
2462	80.35	Ave.	238	1.3	V	7.21	87.56	/	/
4924	36.12	PK	315	1.8	H	12.50	48.62	74	25.38
4924	26.52	Ave.	315	1.8	H	12.50	39.02	54	14.98
7386	33.64	PK	84	2.1	H	15.91	49.55	74	24.45
7386	20.96	Ave.	84	2.1	H	15.91	36.87	54	17.13
9848	32.43	PK	205	1.3	H	19.39	51.82	74	22.18
9848	19.62	Ave.	205	1.3	H	19.39	39.01	54	14.99
2386.4	35.85	PK	258	1.2	V	6.13	41.98	74	32.02
2386.4	21.26	Ave.	258	1.2	V	6.13	27.39	54	26.61
2499.2	33.82	PK	159	1.5	H	7.21	41.03	74	32.97
2499.2	19.71	Ave.	159	1.5	H	7.21	26.92	54	27.08
2491.1	34.31	PK	153	1.3	H	7.21	41.52	74	32.48
2491.1	20.08	Ave.	153	1.3	H	7.21	27.29	54	26.71

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)									
612.16	29.49	QP	277	1.6	V	-8.8	20.69	46	25.31
2412	86.98	PK	110	1.5	H	6.13	93.11	/	/
2412	75.97	Ave.	110	1.5	H	6.13	82.10	/	/
2412	82.66	PK	338	2.2	V	6.13	88.79	/	/
2412	70.40	Ave.	338	2.2	V	6.13	76.53	/	/
4824	33.67	PK	256	2.2	H	12.40	46.07	74	27.93
4824	20.88	Ave.	256	2.2	H	12.40	33.28	54	20.72
7236	34.70	PK	252	1.6	V	16.62	51.32	74	22.68
7236	20.45	Ave.	252	1.6	V	16.62	37.07	54	16.93
9648	32.56	PK	134	1.3	H	19.29	51.85	74	22.15
9648	19.93	Ave.	134	1.3	H	19.29	39.22	54	14.78
2379.6	36.99	PK	65	1.9	V	6.13	43.12	74	30.88
2379.6	21.09	Ave.	65	1.9	V	6.13	27.22	54	26.78
2382.9	36.72	PK	102	1.7	H	6.13	42.85	74	31.15
2382.9	22.10	Ave.	102	1.7	H	6.13	28.23	54	25.77
2495.1	34.67	PK	289	1.9	V	7.21	41.88	74	32.12
2495.1	20.15	Ave.	289	1.9	V	7.21	27.36	54	26.64
Middle Channel (2437 MHz)									
612.16	29.08	QP	178	1.5	V	-8.8	20.28	46	25.72
2437	86.16	PK	204	2.2	H	6.13	92.29	/	/
2437	74.82	Ave.	204	2.2	H	6.13	80.95	/	/
2437	81.16	PK	345	1.8	V	6.13	87.29	/	/
2437	70.05	Ave.	345	1.8	V	6.13	76.18	/	/
4874	32.21	PK	99	1.6	H	12.46	44.67	74	29.33
4874	19.79	Ave.	99	1.6	H	12.46	32.25	54	21.75
7311	33.27	PK	197	2.0	H	16.49	49.76	74	24.24
7311	20.42	Ave.	197	2.0	H	16.49	36.91	54	17.09
9748	32.88	PK	250	1.6	V	19.40	52.28	74	21.72
9748	20.29	Ave.	250	1.6	V	19.40	39.69	54	14.31
2388.7	38.20	PK	202	2.1	V	6.13	44.33	74	29.67
2388.7	23.71	Ave.	202	2.1	V	6.13	29.84	54	24.16
2387.6	37.17	PK	72	1.9	H	6.13	43.30	74	30.70
2387.6	21.99	Ave.	72	1.9	H	6.13	28.12	54	25.88
2489.3	37.47	PK	46	1.5	V	7.21	44.68	74	29.32
2489.3	22.61	Ave.	46	1.5	V	7.21	29.82	54	24.18

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)									
612.16	29.39	QP	204	1.9	V	-8.8	20.59	46	25.41
2462	83.50	PK	117	1.6	H	7.21	90.71	/	/
2462	71.65	Ave.	117	1.6	H	7.21	78.86	/	/
2462	80.32	PK	29	1.4	V	7.21	87.53	/	/
2462	68.65	Ave.	29	1.4	V	7.21	75.86	/	/
4924	34.06	PK	78	1.5	H	12.50	46.56	74	27.44
4924	20.21	Ave.	78	1.5	H	12.50	32.71	54	21.29
7386	33.02	PK	278	1.0	H	15.91	48.93	74	25.07
7386	20.32	Ave.	278	1.0	H	15.91	36.23	54	17.77
9848	32.66	PK	347	1.5	H	19.39	52.05	74	21.95
9848	20.18	Ave.	347	1.5	H	19.39	39.57	54	14.43
2385.9	36.14	PK	122	1.1	H	6.13	42.27	74	31.73
2385.9	21.07	Ave.	122	1.1	H	6.13	27.20	54	26.80
2496.2	35.37	PK	225	1.4	V	7.21	42.58	74	31.42
2496.2	20.87	Ave.	225	1.4	V	7.21	28.08	54	25.92
2494.6	35.28	PK	181	1.3	H	7.21	42.49	74	31.51
2494.6	20.05	Ave.	181	1.3	H	7.21	27.26	54	26.74

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)									
612.16	28.93	QP	213	2.1	V	-8.8	20.13	46	25.87
2412	83.04	PK	18	1.8	H	6.13	89.17	/	/
2412	70.87	Ave.	18	1.8	H	6.13	77.00	/	/
2412	80.93	PK	246	1.5	V	6.13	87.06	/	/
2412	69.48	Ave.	246	1.5	V	6.13	75.61	/	/
4824	33.88	PK	71	1.3	H	12.40	46.28	74	27.72
4824	20.37	Ave.	71	1.3	H	12.40	32.77	54	21.23
7236	33.91	PK	305	1.7	V	16.62	50.53	74	23.47
7236	20.30	Ave.	305	1.7	V	16.62	36.92	54	17.08
9648	32.60	PK	353	1.6	V	19.29	51.89	74	22.11
9648	20.41	Ave.	353	1.6	V	19.29	39.70	54	14.30
2384.4	38.70	PK	106	1.6	H	6.13	44.83	74	29.17
2384.4	23.68	Ave.	106	1.6	H	6.13	29.81	54	24.19
2387.3	37.68	PK	151	2.1	H	6.13	43.81	74	30.19
2387.3	21.59	Ave.	151	2.1	H	6.13	27.72	54	26.28
2497.5	35.01	PK	75	2.0	H	7.21	42.22	74	31.78
2497.5	20.44	Ave.	75	2.0	H	7.21	27.65	54	26.35
Middle Channel (2437 MHz)									
612.16	29.47	QP	345	1.5	V	-8.8	20.67	46	25.33
2437	83.00	PK	213	1.7	H	6.13	89.13	/	/
2437	72.12	Ave.	213	1.7	H	6.13	78.25	/	/
2437	80.26	PK	310	1.4	V	6.13	86.39	/	/
2437	70.03	Ave.	310	1.4	V	6.13	76.16	/	/
4874	33.41	PK	85	1.8	H	12.46	45.87	74	28.13
4874	20.62	Ave.	85	1.8	H	12.46	33.08	54	20.92
7311	31.87	PK	234	1.1	V	16.49	48.36	74	25.64
7311	20.05	Ave.	234	1.1	V	16.49	36.54	54	17.46
9748	30.27	PK	32	1.5	V	19.40	49.67	74	24.33
9748	19.16	Ave.	32	1.5	V	19.40	38.56	54	15.44
2381.6	37.41	PK	291	1.8	V	6.13	43.54	74	30.46
2381.6	23.56	Ave.	291	1.8	V	6.13	29.69	54	24.31
2490.3	36.51	PK	204	1.1	H	7.21	43.72	74	30.28
2490.3	21.79	Ave.	204	1.1	H	7.21	29.00	54	25.00
2486.4	36.55	PK	75	1.4	H	7.21	43.76	74	30.24
2486.4	21.80	Ave.	75	1.4	H	7.21	29.01	54	24.99

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)									
612.16	29.38	QP	21	1.7	V	-8.8	20.58	46	25.42
2462	81.13	PK	97	1.9	H	7.21	88.34	/	/
2462	69.46	Ave.	97	1.9	H	7.21	76.67	/	/
2462	80.37	PK	202	2.1	V	7.21	87.58	/	/
2462	68.53	Ave.	202	2.1	V	7.21	75.74	/	/
4924	34.27	PK	308	1.4	H	12.50	46.77	74	27.23
4924	21.08	Ave.	308	1.4	H	12.50	33.58	54	20.42
7386	33.02	PK	339	1.7	H	15.91	48.93	74	25.07
7386	20.21	Ave.	339	1.7	H	15.91	36.12	54	17.88
9848	32.07	PK	11	1.0	H	19.39	51.46	74	22.54
9848	20.02	Ave.	11	1.0	H	19.39	39.41	54	14.59
2384.2	36.02	PK	359	1.2	V	6.13	42.15	74	31.85
2384.2	22.58	Ave.	359	1.2	V	6.13	28.71	54	25.29
2484.5	36.29	PK	342	2.1	H	7.21	43.50	74	30.50
2484.5	22.86	Ave.	342	2.1	H	7.21	30.07	54	23.93
2488.8	36.10	PK	338	1.0	H	7.21	43.31	74	30.69
2488.8	22.48	Ave.	338	1.0	H	7.21	29.69	54	24.31

802.11n-HT40 Mode:

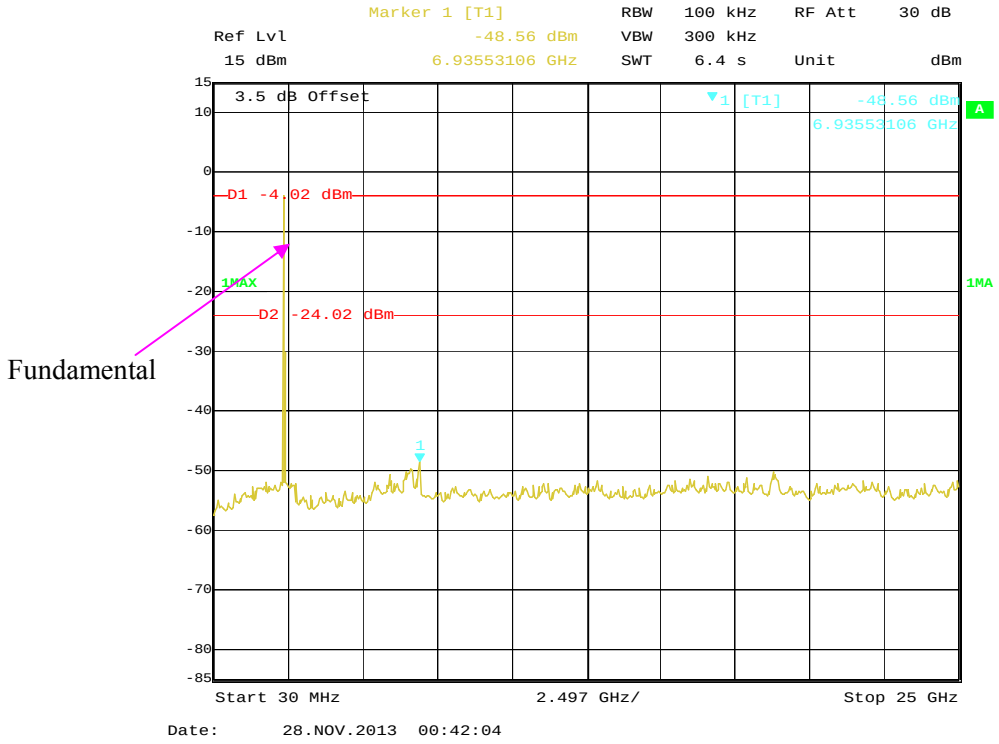
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/205/209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2422 MHz)									
612.16	29.04	QP	184	1.7	V	-8.8	20.24	46	25.76
2422	80.82	PK	13	1.6	H	6.13	86.95	/	/
2422	66.60	Ave.	13	1.6	H	6.13	72.73	/	/
2422	76.92	PK	35	1.5	V	6.13	83.05	/	/
2422	64.39	Ave.	35	1.5	V	6.13	70.52	/	/
4844	35.84	PK	210	1.3	H	12.40	48.24	74	25.76
4844	22.81	Ave.	210	1.3	H	12.40	35.21	54	18.79
7266	34.27	PK	344	1.4	H	16.62	50.89	74	23.11
7266	21.16	Ave.	344	1.4	H	16.62	37.78	54	16.22
9688	32.06	PK	241	1.7	H	19.29	51.35	74	22.65
9688	19.47	Ave.	241	1.7	H	19.29	38.76	54	15.24
2388.9	38.77	PK	183	2.1	H	6.13	44.90	74	29.10
2388.9	22.41	Ave.	183	2.1	H	6.13	28.54	54	25.46
2389.2	37.34	PK	166	1.3	H	6.13	43.47	74	30.53
2389.2	22.09	Ave.	166	1.3	H	6.13	28.22	54	25.78
2486.7	34.36	PK	228	1.2	H	7.21	41.57	74	32.43
2486.7	21.06	Ave.	228	1.2	H	7.21	28.27	54	25.73
Middle Channel (2437 MHz)									
612.16	29.32	QP	309	1.8	H	-8.8	20.52	46	25.48
2437	79.40	PK	201	1.6	H	6.13	85.53	/	/
2437	65.45	Ave.	201	1.6	H	6.13	71.58	/	/
2437	74.01	PK	264	1.7	V	6.13	80.14	/	/
2437	62.42	Ave.	264	1.7	V	6.13	68.55	/	/
4874	33.88	PK	123	1.7	H	12.46	46.34	74	27.66
4874	19.76	Ave.	123	1.7	H	12.46	32.22	54	21.78
7311	30.85	PK	68	1.3	V	16.49	47.34	74	26.66
7311	19.03	Ave.	68	1.3	V	16.49	35.52	54	18.48
9748	30.24	PK	92	1.7	H	19.40	49.64	74	24.36
9748	18.58	Ave.	92	1.7	H	19.40	37.98	54	16.02
2377.1	35.05	PK	329	2.1	H	6.13	41.18	74	32.82
2377.1	20.47	Ave.	329	2.1	H	6.13	26.60	54	27.40
2497.7	34.45	PK	355	2.0	V	7.21	41.66	74	32.34
2497.7	20.27	Ave.	355	2.0	V	7.21	27.48	54	26.52
2496.8	32.37	PK	149	1.7	H	7.21	39.58	74	34.42
2496.8	19.95	Ave.	149	1.7	H	7.21	27.16	54	26.84

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 (2452 MHz)									
612.16	29.22	QP	91	1.2	V	-8.8	20.42	46	25.58
2452	78.40	PK	253	1.7	H	7.21	85.61	/	/
2452	65.89	Ave.	253	1.7	H	7.21	73.10	/	/
2452	77.62	PK	358	1.6	V	7.21	84.83	/	/
2452	64.58	Ave.	358	1.6	V	7.21	71.79	/	/
4904	35.67	PK	317	2.0	H	12.46	48.13	74	25.87
4904	20.89	Ave.	317	2.0	H	12.46	33.35	54	20.65
7356	34.12	PK	172	1.5	H	15.91	50.03	74	23.97
7356	20.07	Ave.	172	1.5	H	15.91	35.98	54	18.02
9808	32.62	PK	81	1.2	V	19.29	51.91	74	22.09
9808	18.41	Ave.	81	1.2	V	19.29	37.70	54	16.30
2378.1	35.16	PK	55	1.1	V	6.13	41.29	74	32.71
2378.1	20.97	Ave.	55	1.1	V	6.13	27.10	54	26.90
2484.9	35.18	PK	333	1.2	V	7.21	42.39	74	31.61
2484.9	20.45	Ave.	333	1.2	V	7.21	27.66	54	26.34
2495.5	34.39	PK	226	1.3	H	7.21	41.60	74	32.40
2495.5	19.56	Ave.	226	1.3	H	7.21	26.77	54	27.23

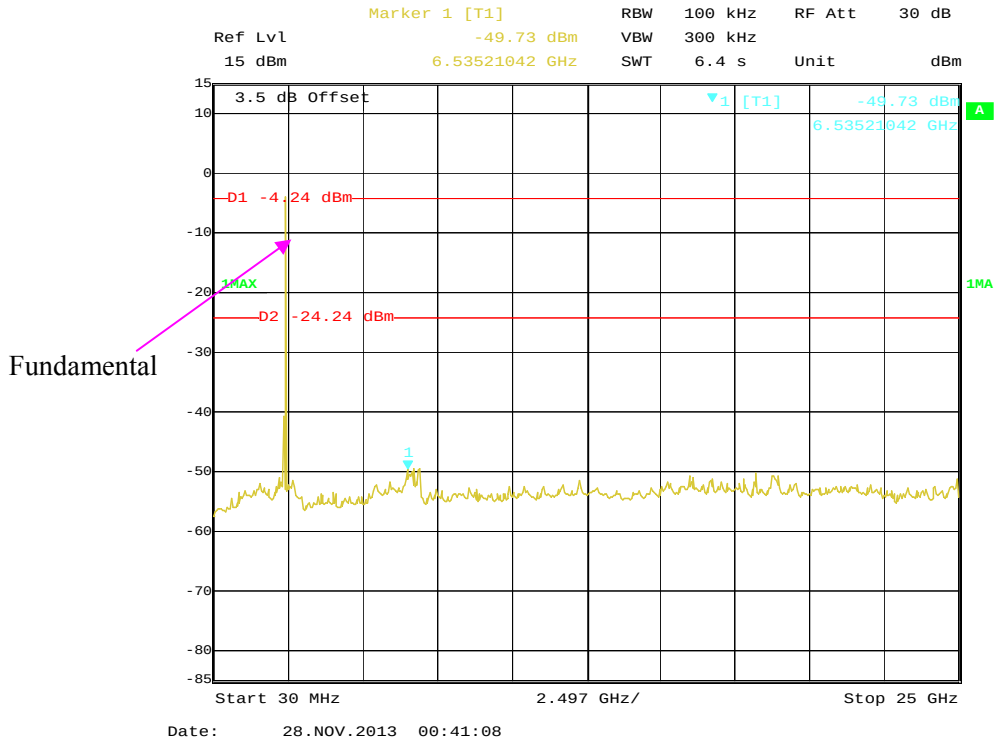
Note:
Corrected Amplitude = Corrected Factor + Reading
Corrected Factor=Antenna Factor (RX) + Cable Loss – Amplifier Factor
Margin = Limit – Corr. Amplitude

Conducted Spurious Emissions at Antenna Port

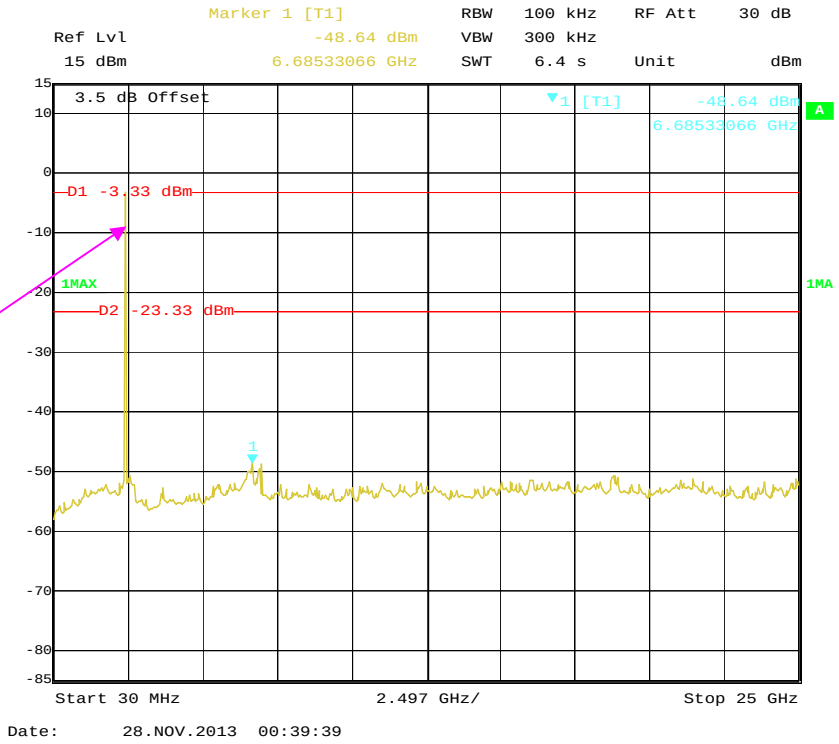
802.11b Low Channel



802.11b Middle Channel

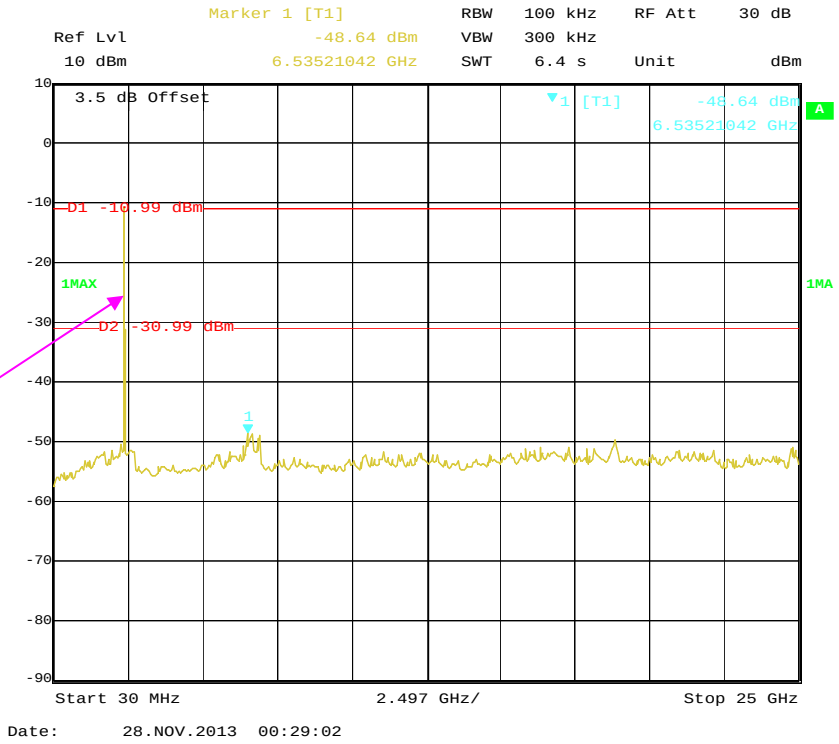


802.11b High Channel



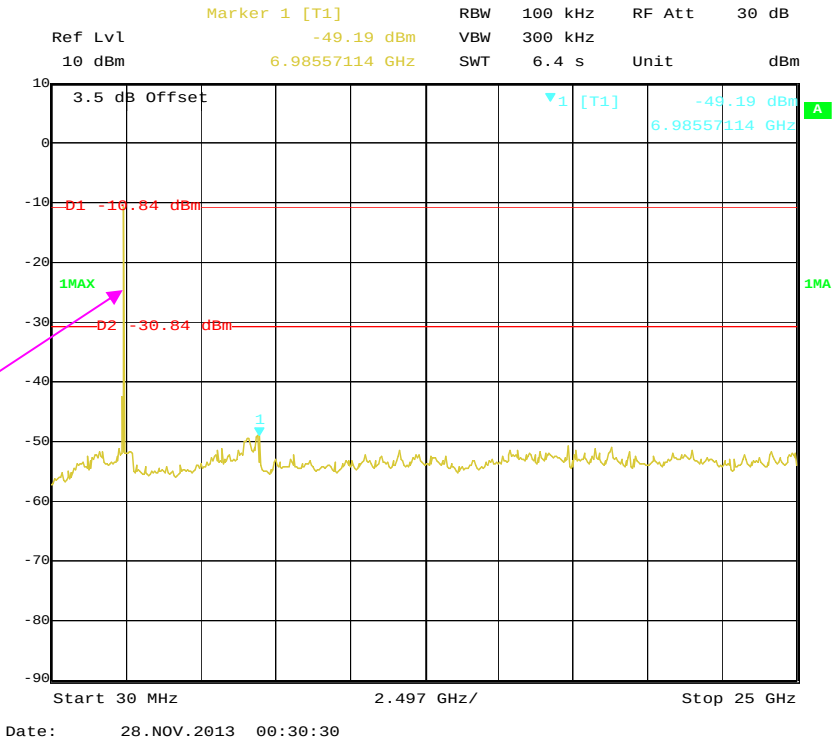
Fundamental

802.11g Low Channel



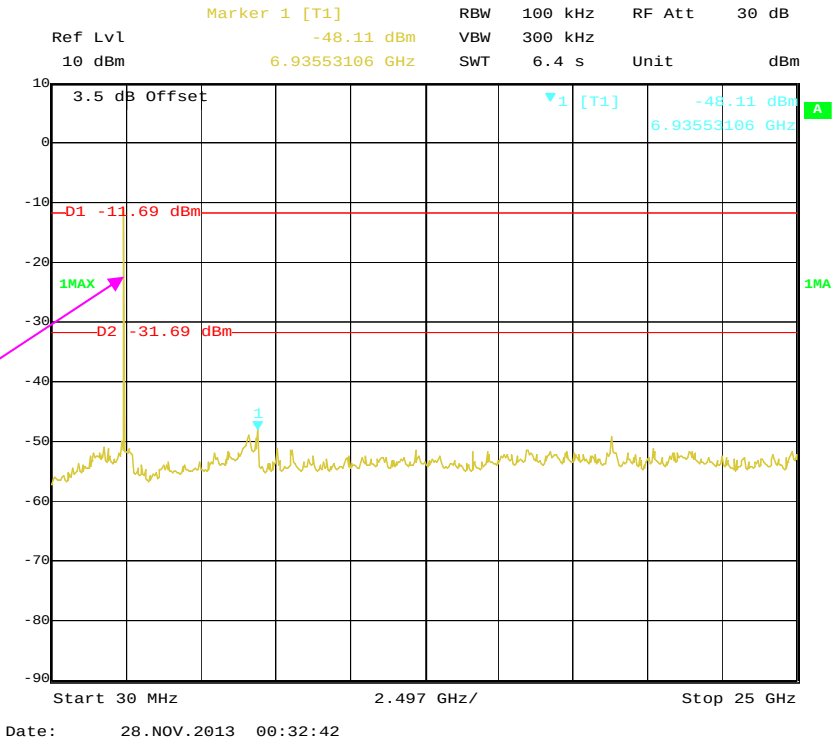
Fundamental

802.11g Middle Channel



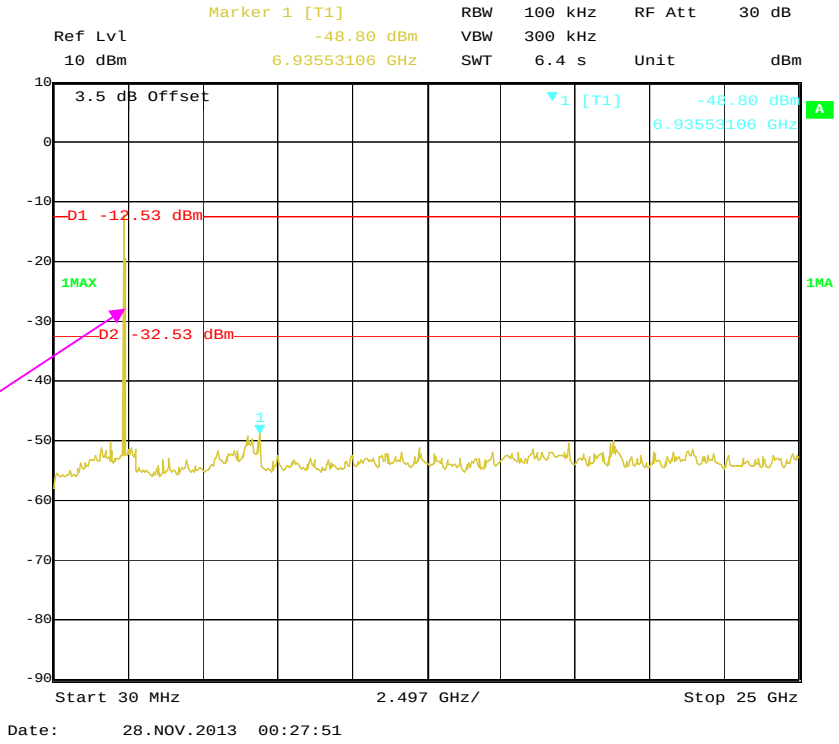
Fundamental

802.11g High Channel



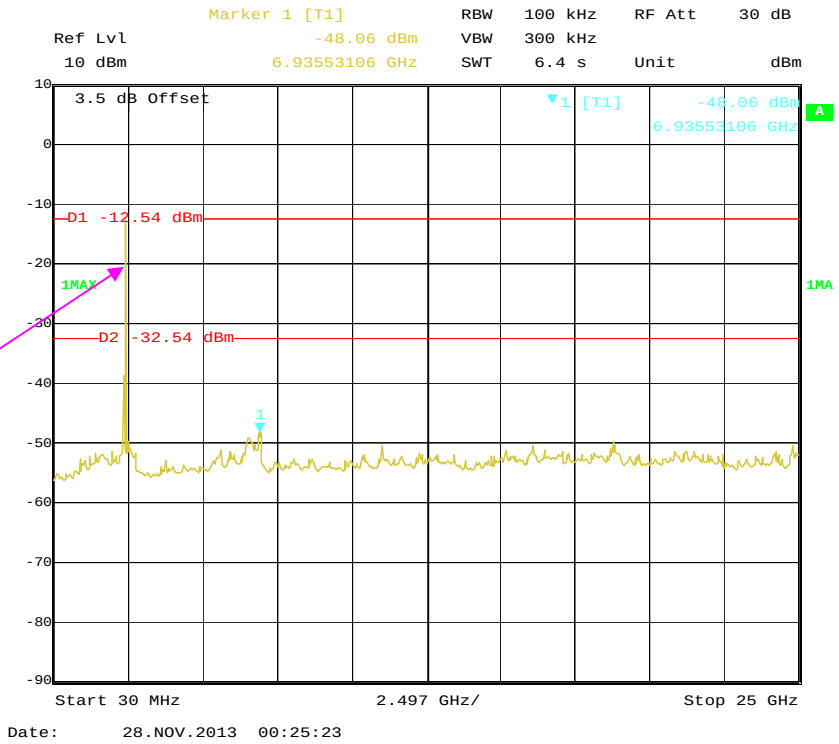
Fundamental

802.11n-HT20 Low Channel



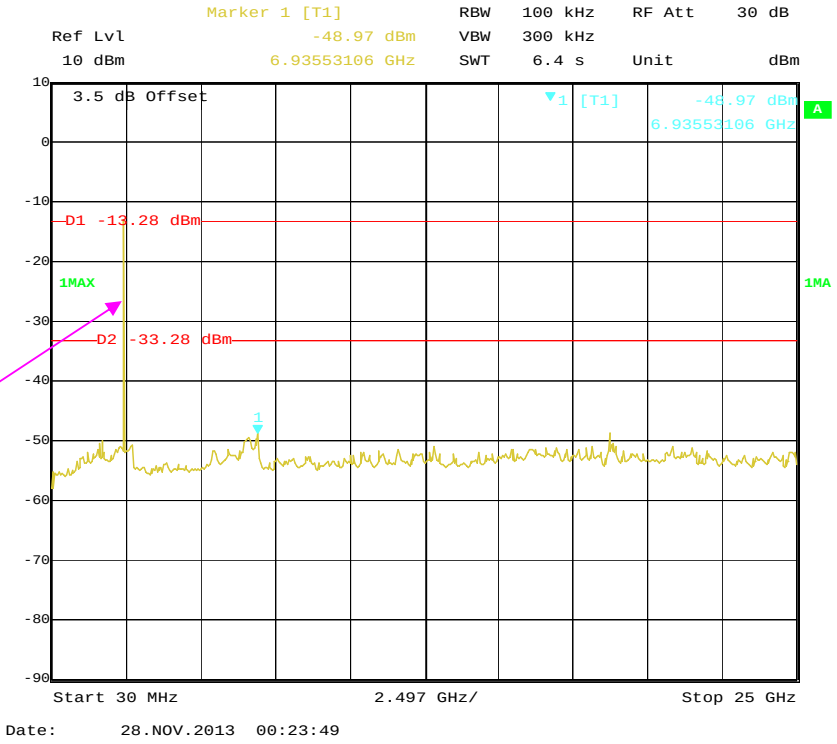
Fundamental

802.11n-HT20 Middle Channel



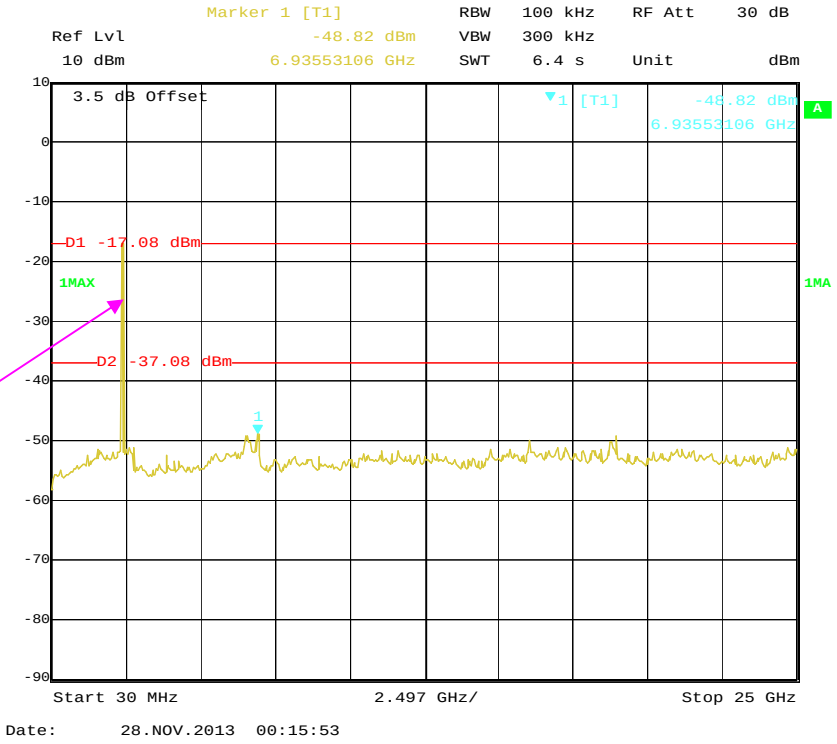
Fundamental

802.11n-HT20 High Channel



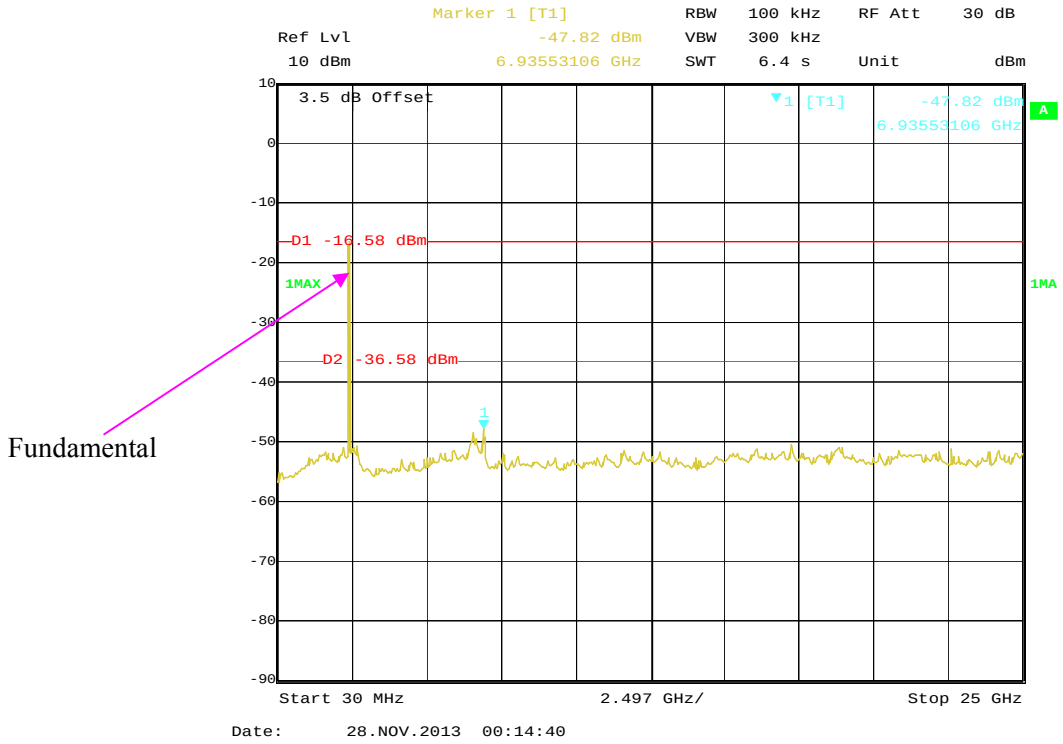
Fundamental

802.11n-HT40 Low Channel



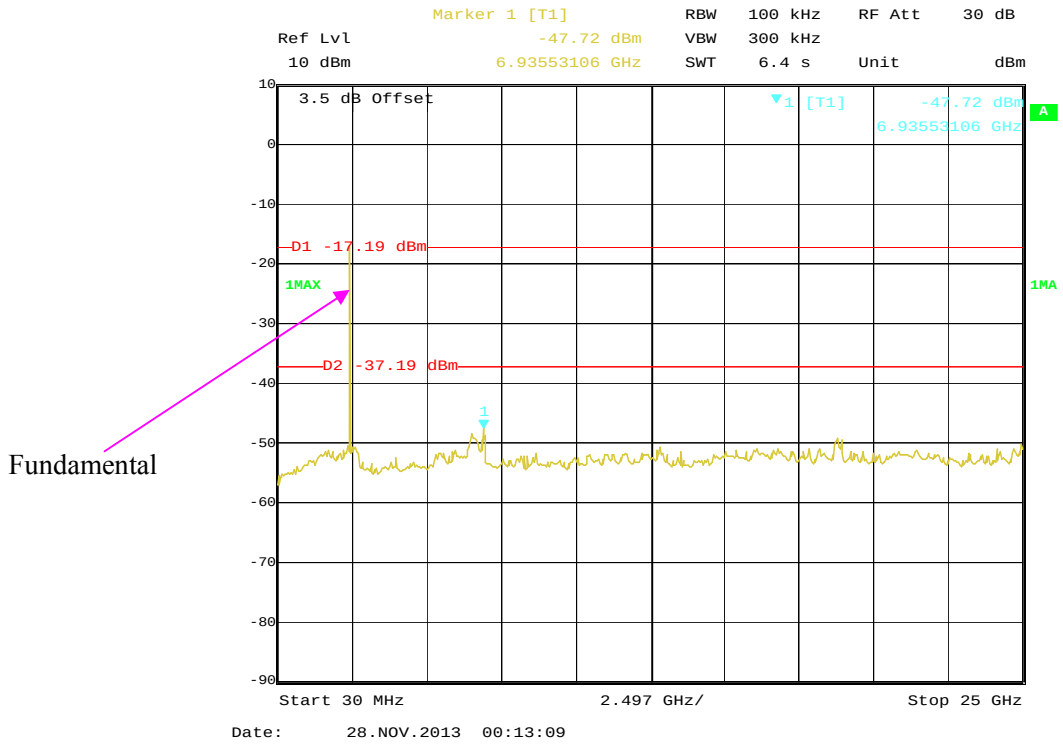
Fundamental

802.11n-HT40 Middle Channel



Fundamental

802.11n-HT40 High Channel



Fundamental

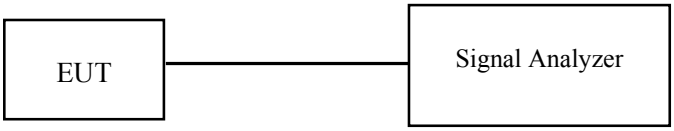
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

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	2013-05-31	2014-05-31

*** 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:	24 ℃
Relative Humidity:	50 %
ATM Pressure:	100.1 kPa

The testing was performed by Candy Li on 2013-11-27.

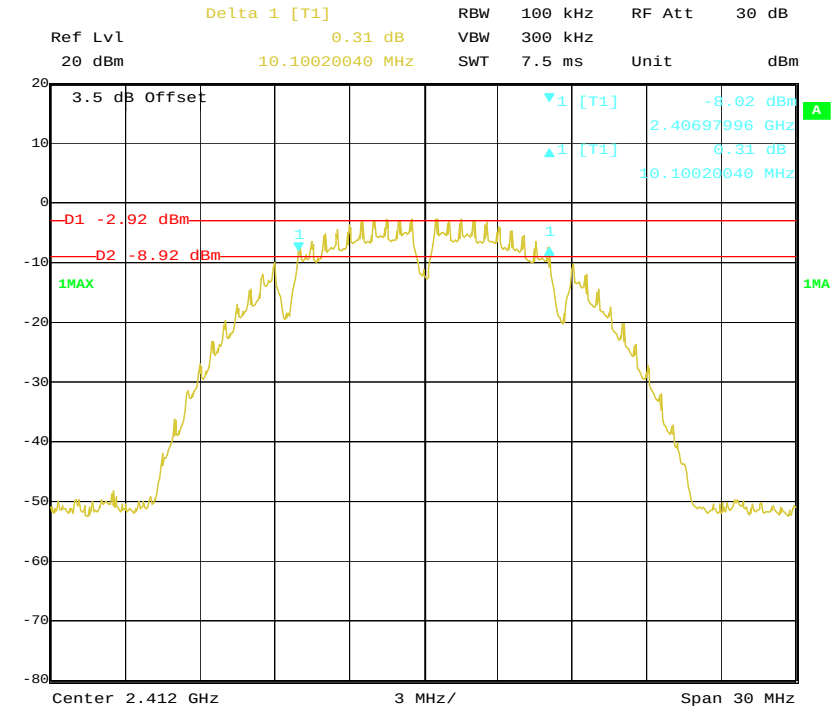
Test Result: Pass.

Please refer to the following tables and plots.

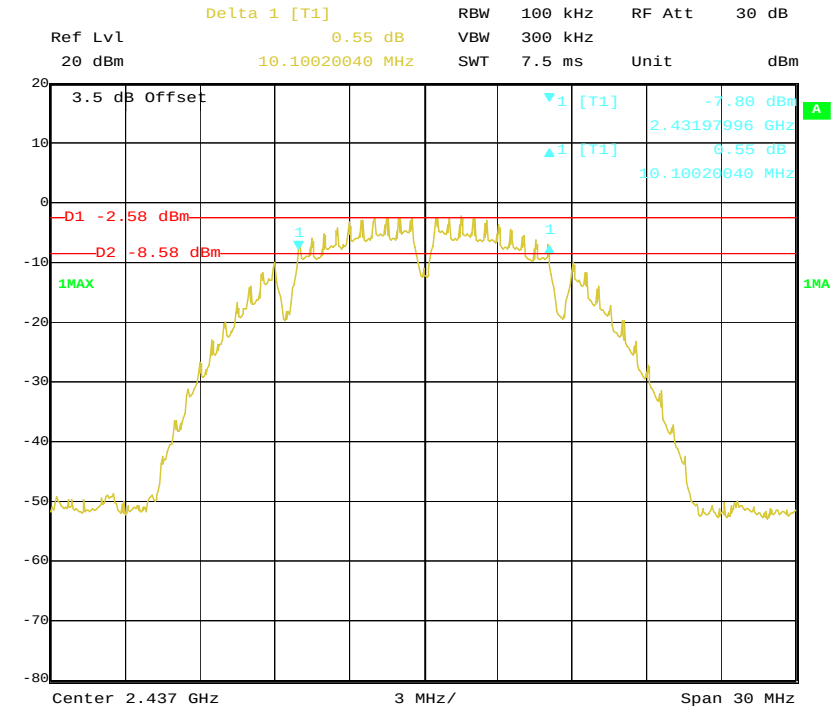
EUT operation mode: Transmitting

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (kHz)
802.11b mode			
Low	2412	10.10	≥500
Middle	2437	10.10	≥500
High	2462	10.10	≥500
802.11g mode			
Low	2412	16.41	≥500
Middle	2437	16.41	≥500
High	2462	16.41	≥500
802.11n-HT20 mode			
Low	2412	17.74	≥500
Middle	2437	17.74	≥500
High	2462	17.74	≥500
802.11n-HT40 mode			
Low	2422	36.37	≥500
Middle	2437	36.37	≥500
High	2452	36.37	≥500

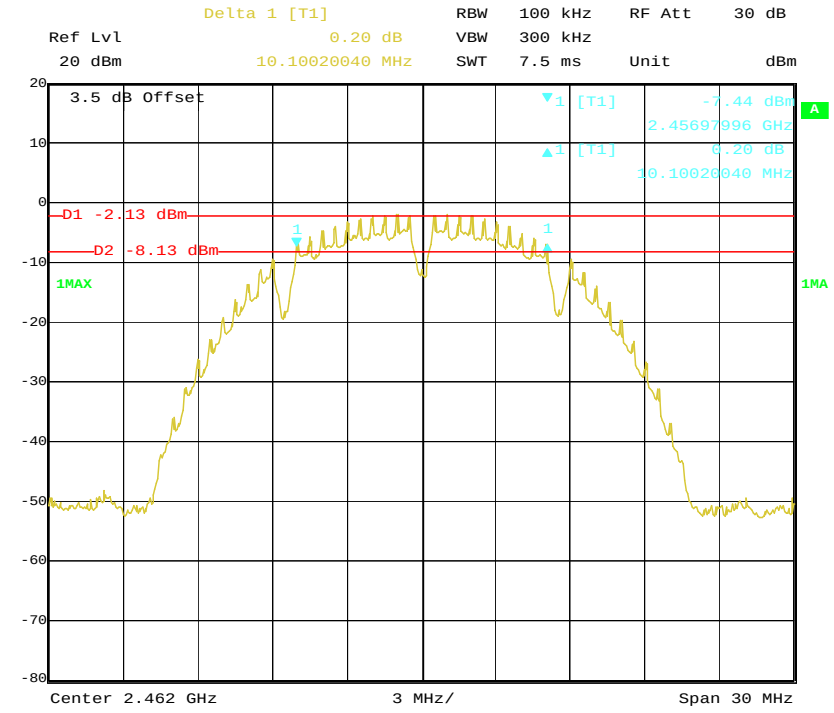
802.11b Low Channel



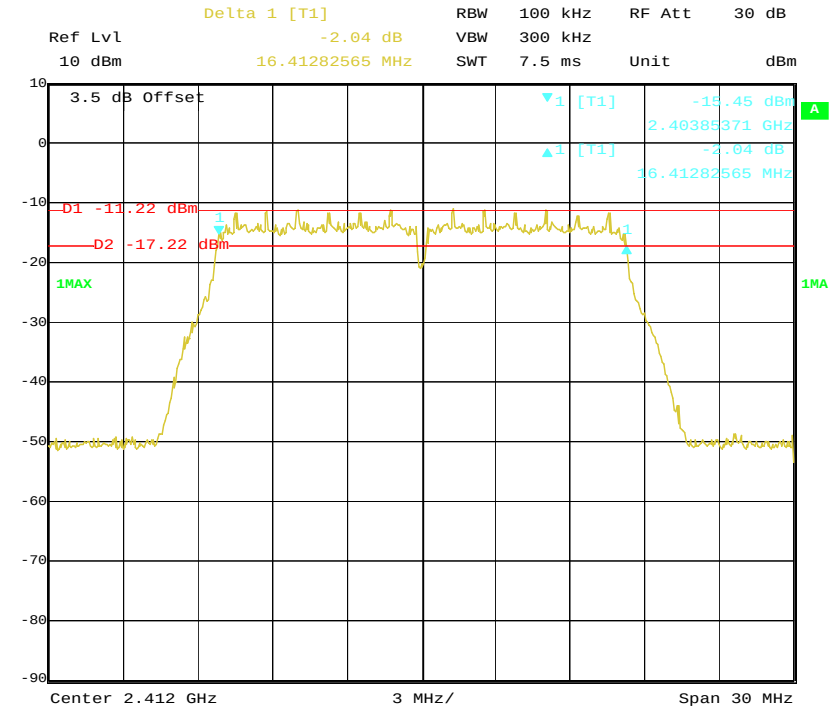
802.11b Middle Channel



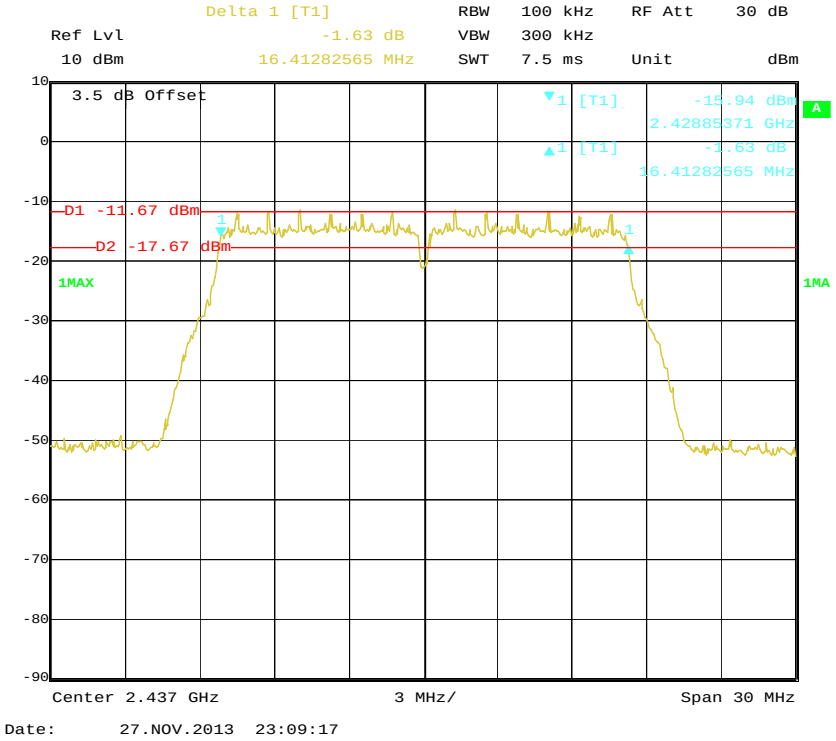
802.11b High Channel



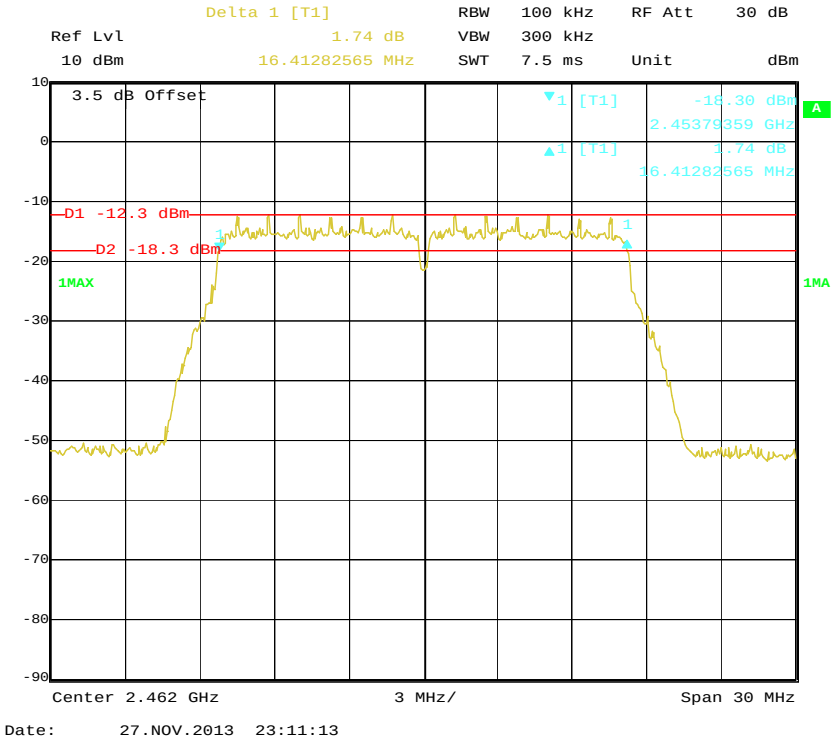
802.11g Low Channel



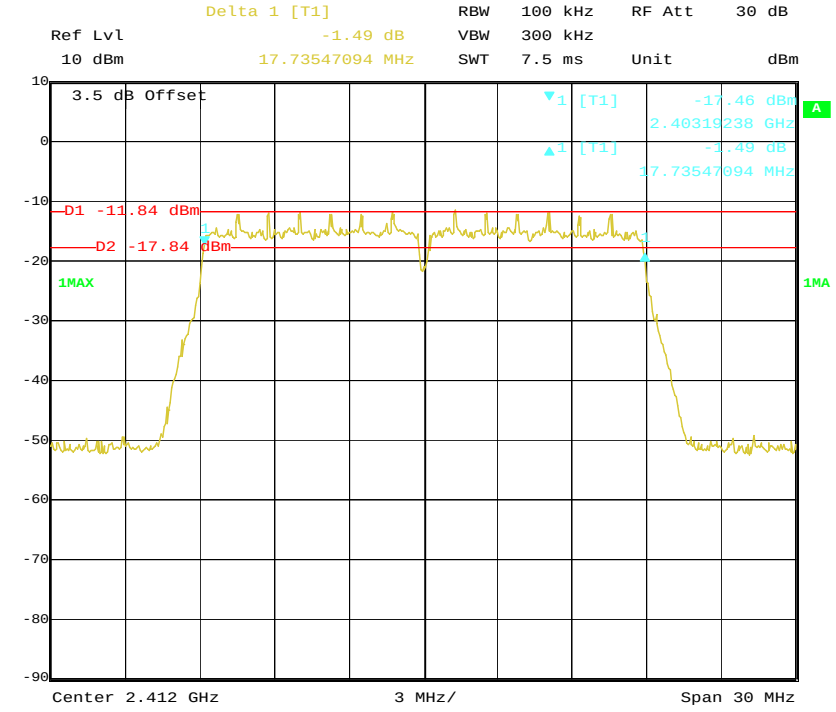
802.11g Middle Channel



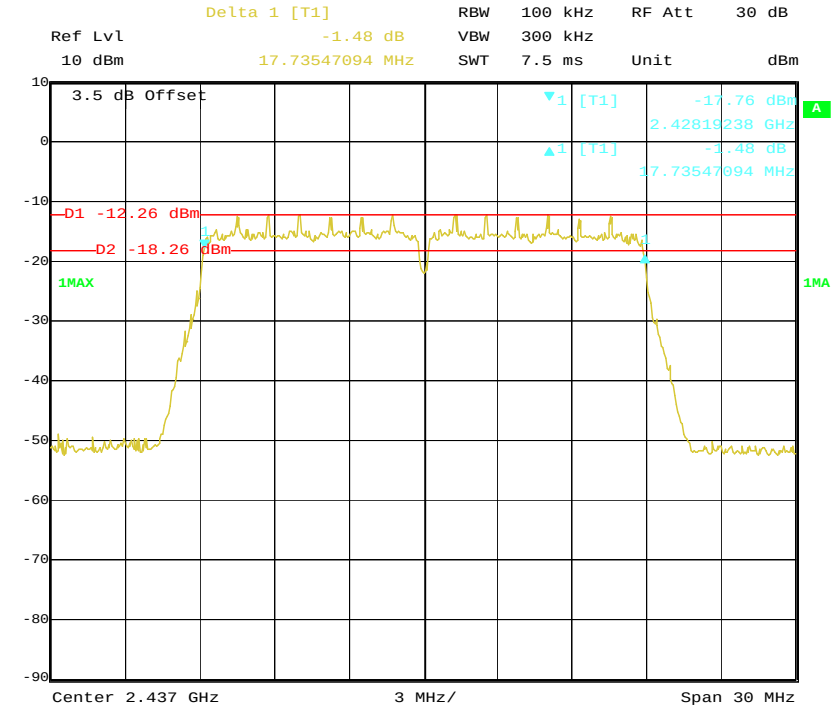
802.11g High Channel



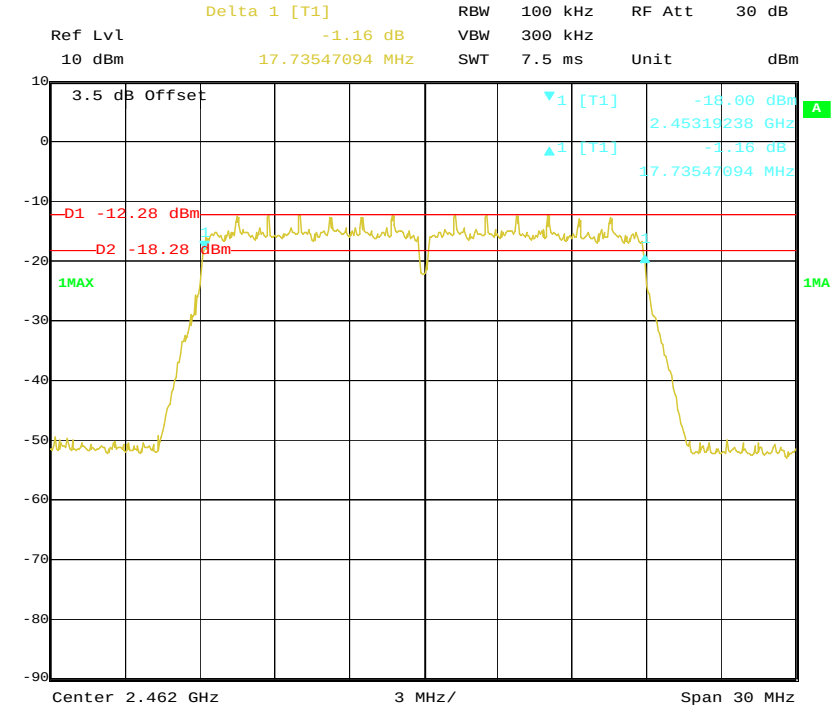
802.11n-HT20 Low Channel



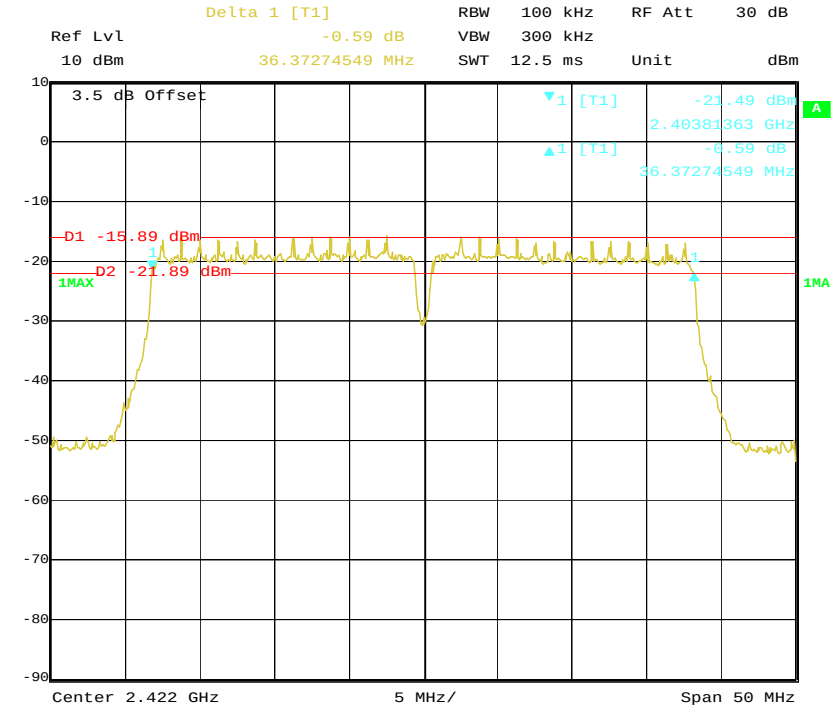
802.11n-HT20 Middle Channel



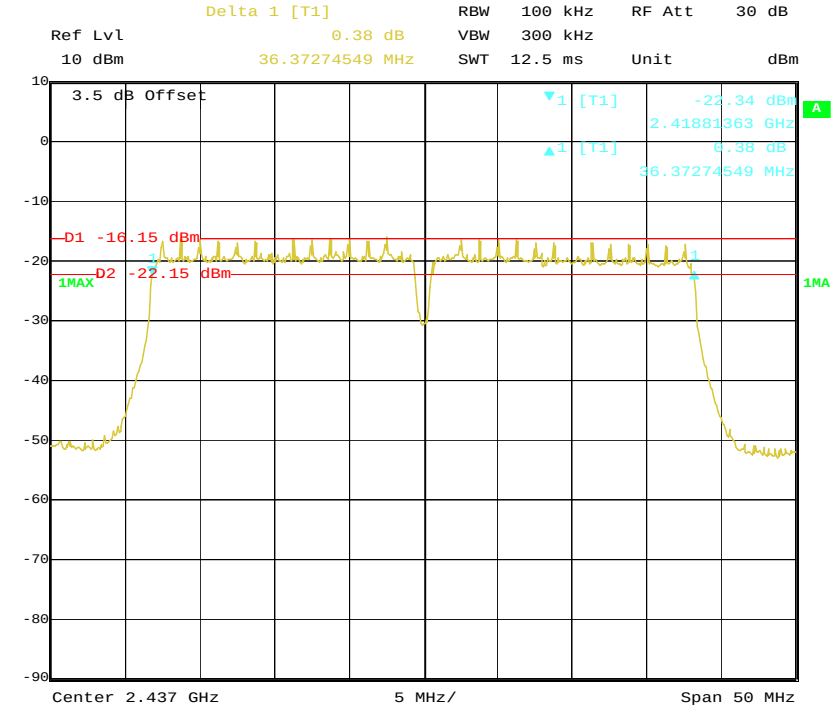
802.11n-HT20 High Channel



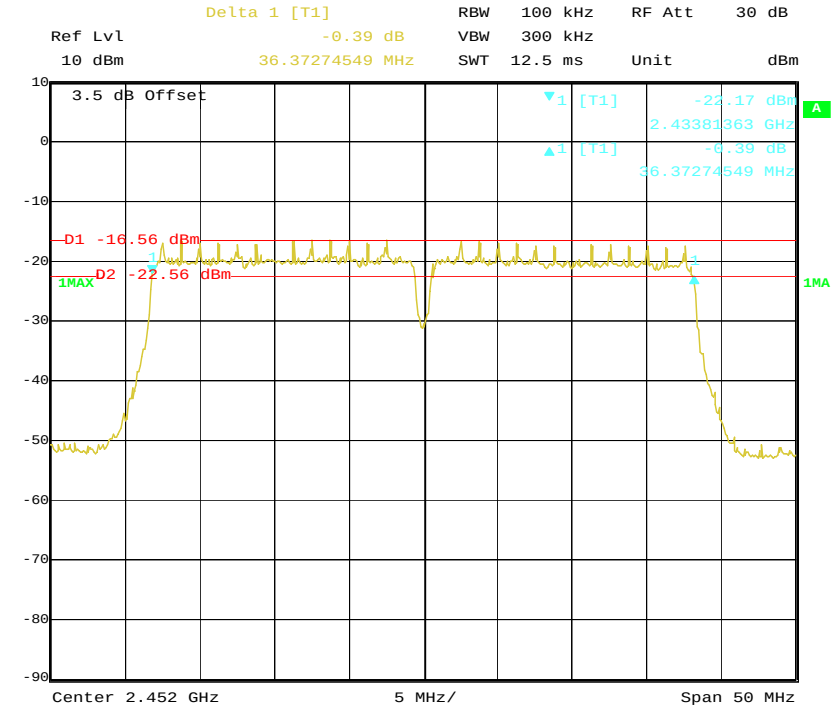
802.11n-HT40 Low Channel



802.11n-HT40 Middle Channel



802.11n-HT40 High Channel



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 a signal analyzer or power meter.
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	Signal Analyzer	FSIQ26	837405/023	2013-05-31	2014-05-31

*** 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:	24 ℃
Relative Humidity:	50 %
ATM Pressure:	100.1 kPa

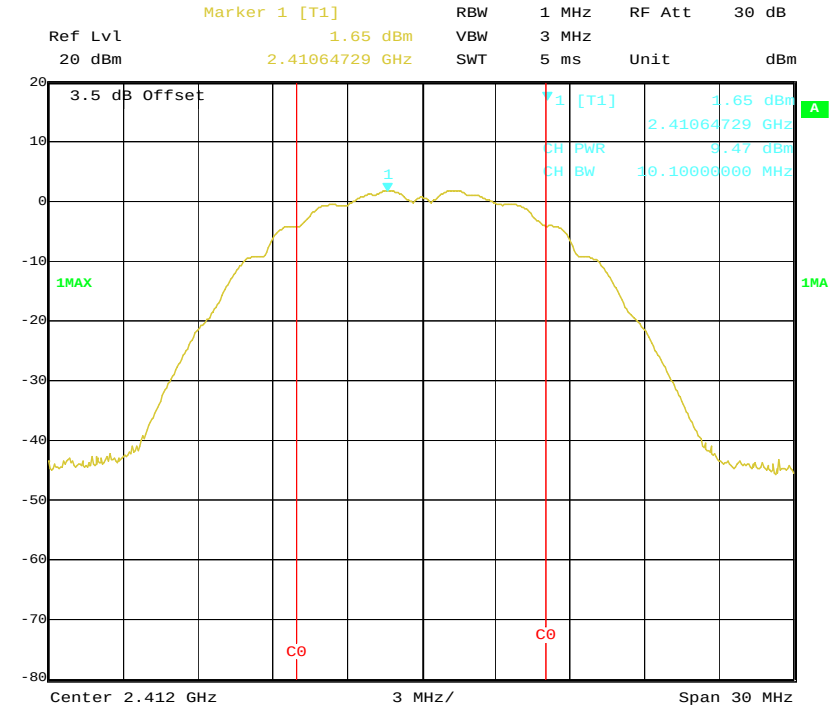
The testing was performed by Candy Li on 2013-11-27.

EUT operation mode: Transmitting

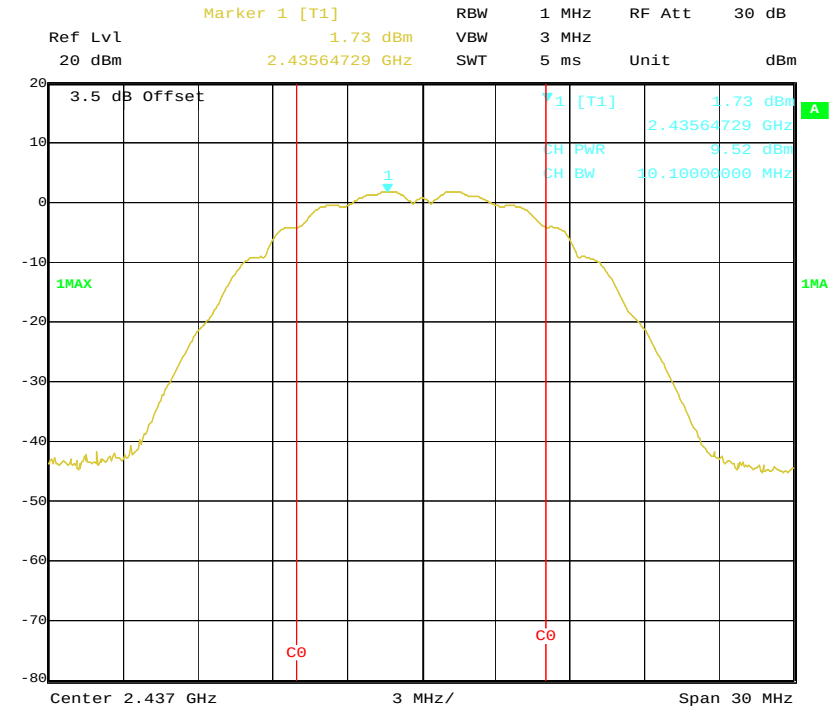
Please refer to the following table and plots:

Channel	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)
802.11b			
Low	2412	9.47	30
Middle	2437	9.52	30
High	2462	9.69	30
802.11g			
Low	2412	8.84	30
Middle	2437	8.43	30
High	2462	8.42	30
802.11n-HT20			
Low	2412	7.97	30
Middle	2437	7.50	30
High	2462	7.53	30
802.11n-HT40			
Low	2422	6.65	30
Middle	2437	6.37	30
High	2452	6.04	30

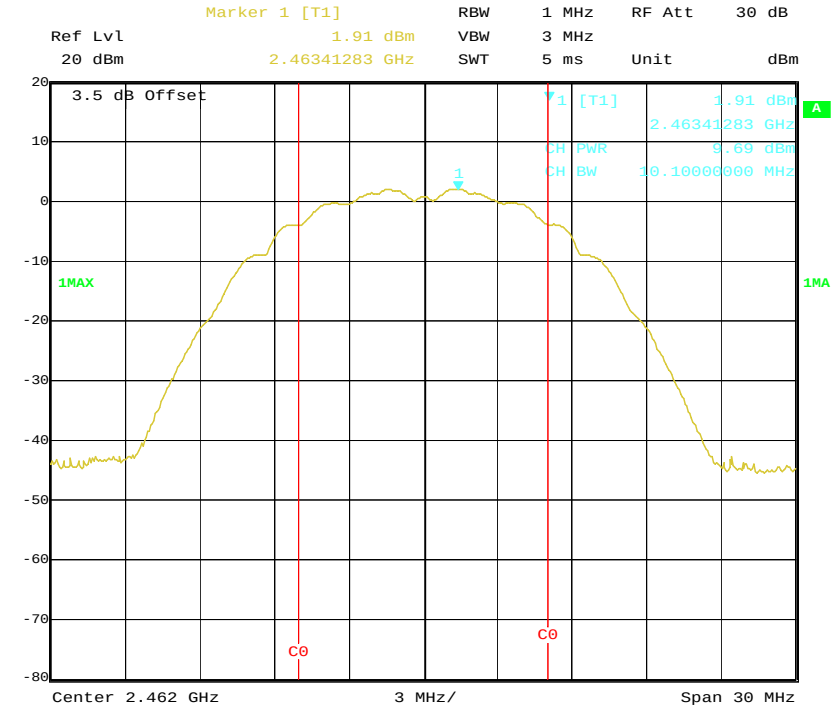
802.11b RF Peak Output Power, Low Channel



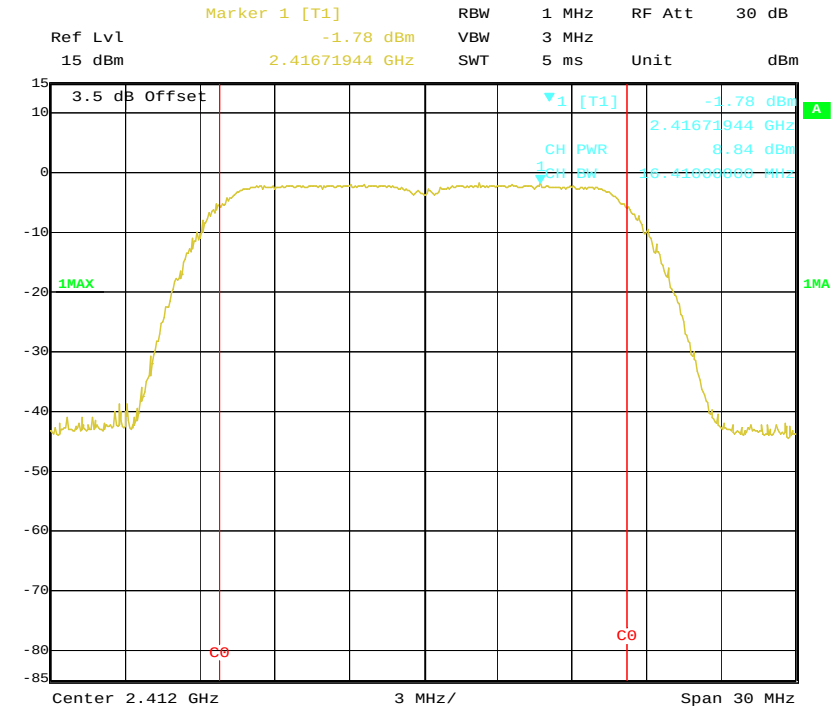
802.11b RF Peak Output Power, Middle Channel



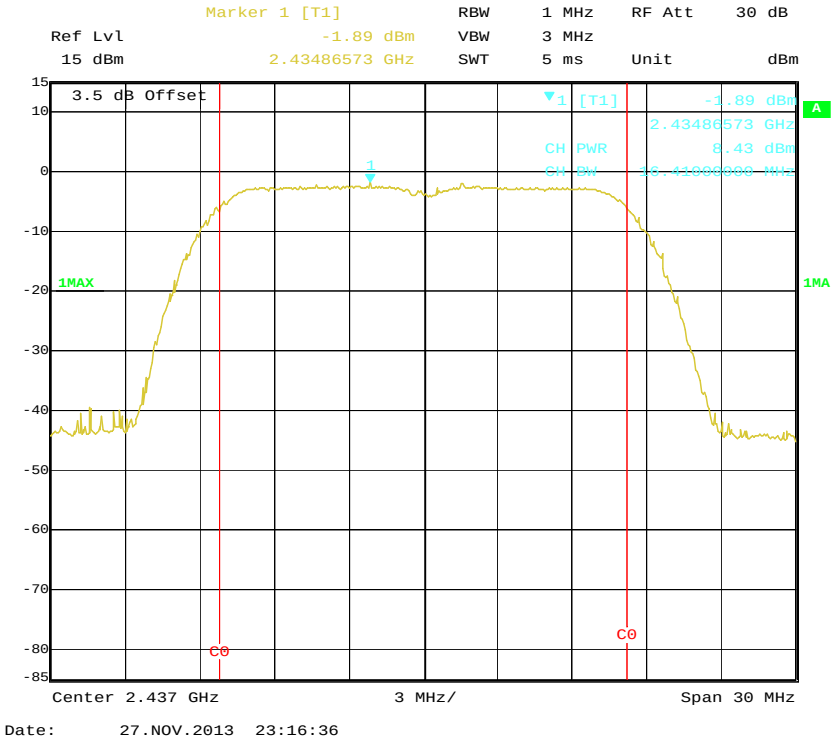
802.11b RF Peak Output Power, High Channel



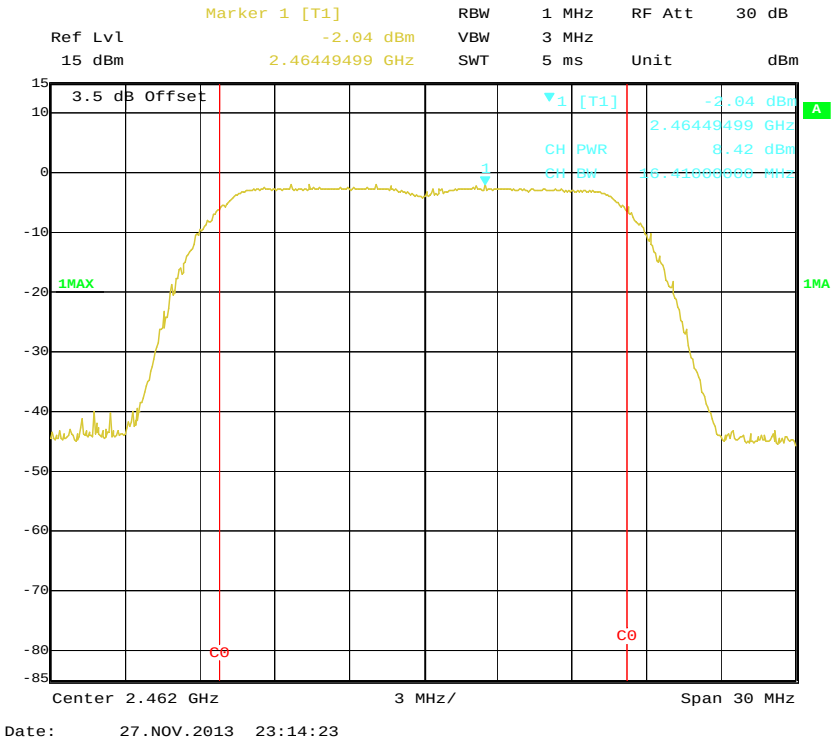
802.11g RF Peak Output Power, Low Channel



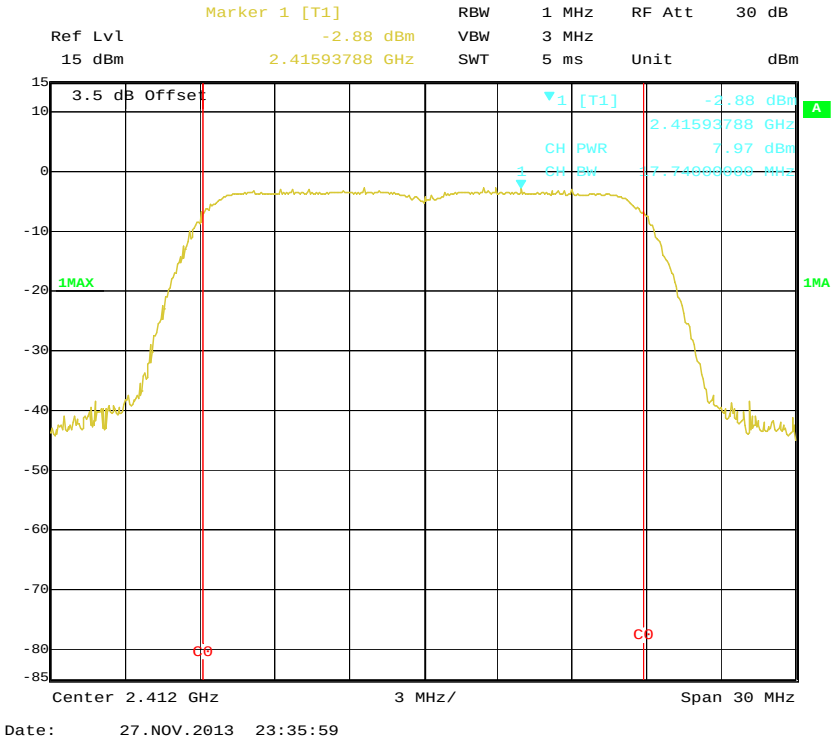
802.11g RF Peak Output Power, Middle Channel



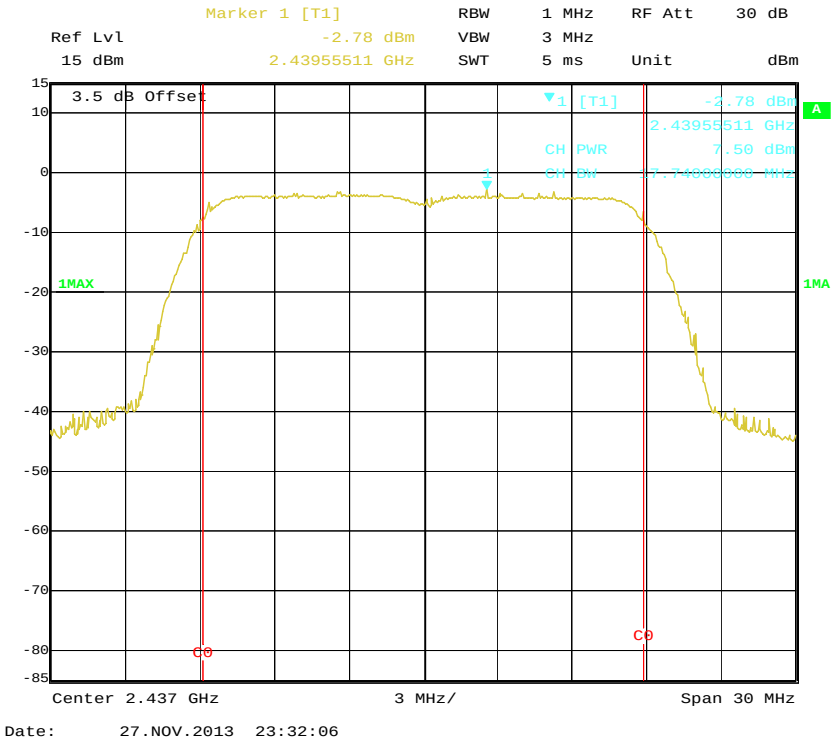
802.11g RF Peak Output Power, High Channel



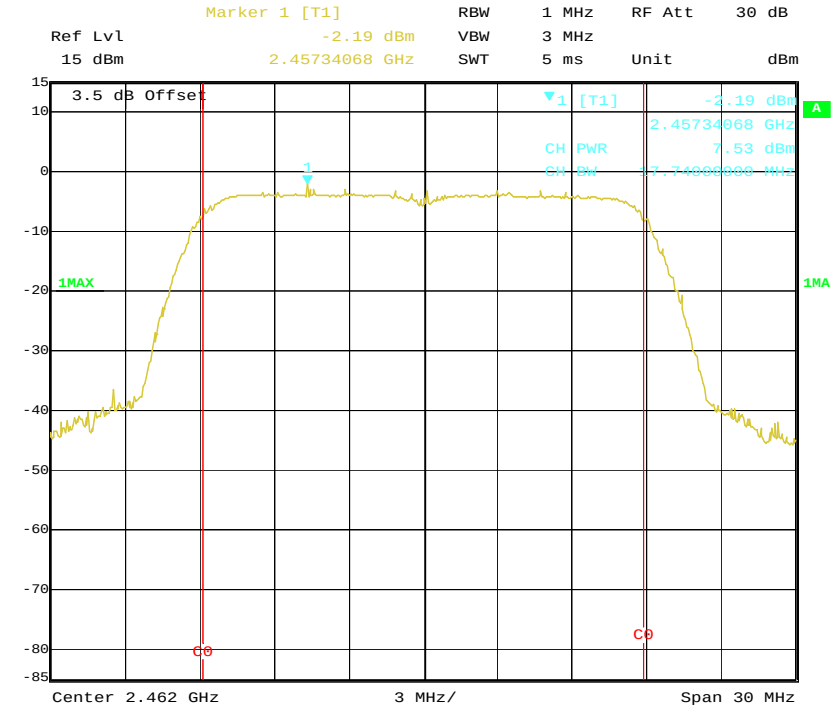
802.11n-HT20 RF Peak Output Power, Low Channel



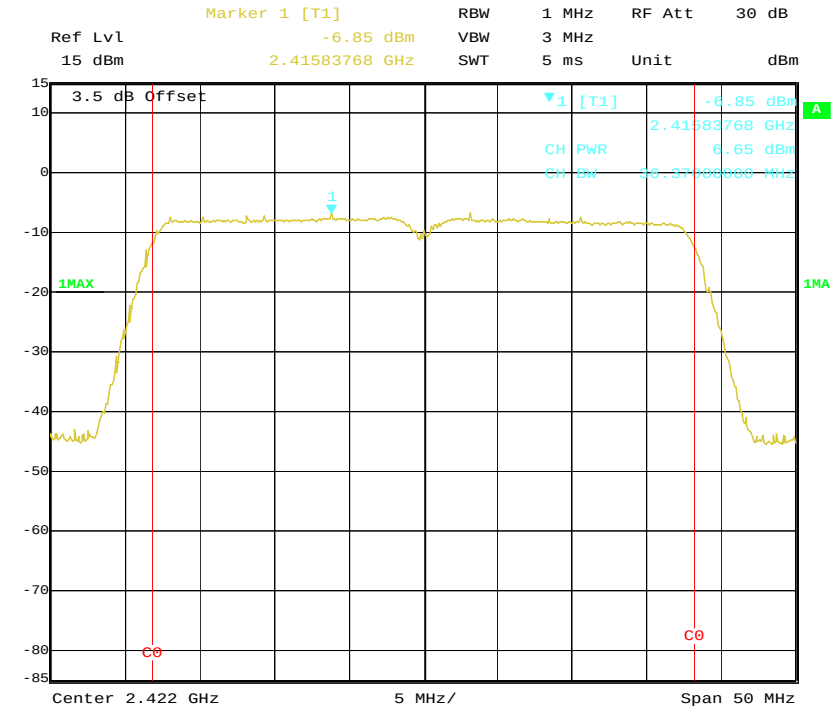
802.11n-HT20 RF Peak Output Power, Middle Channel



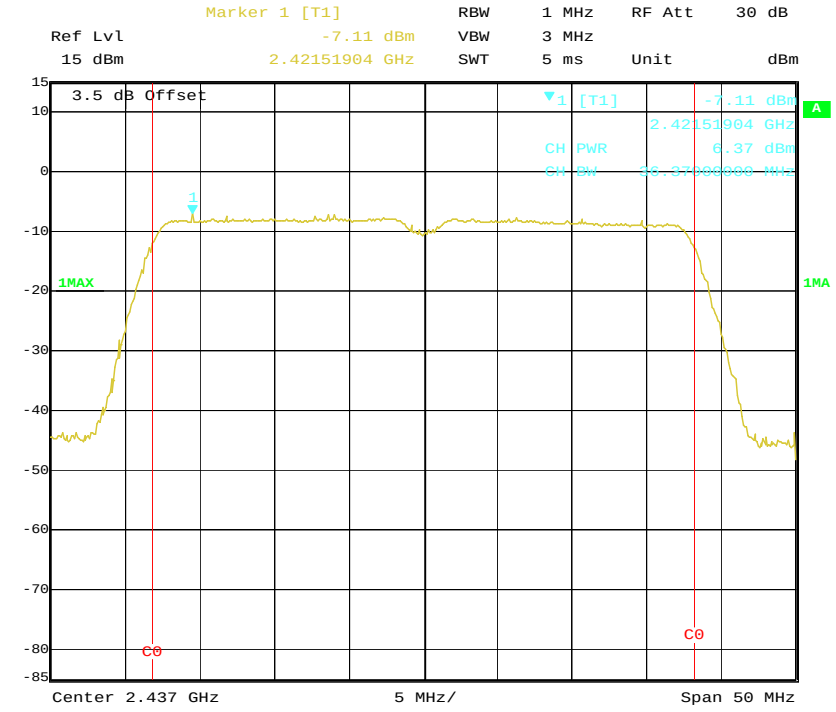
802.11n-HT20 RF Peak Output Power, High Channel



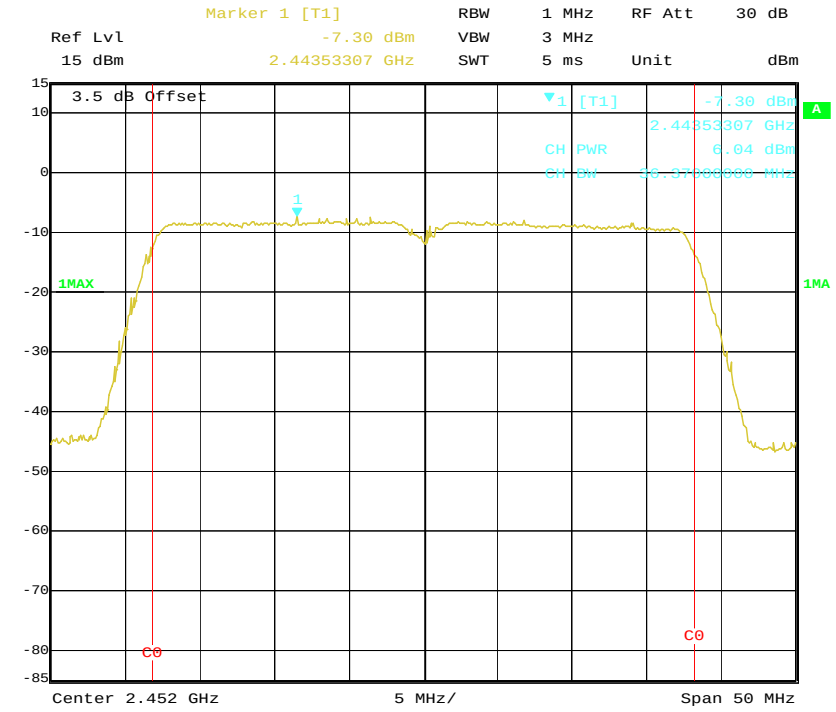
802.11n-HT40 RF Peak Output Power, Low Channel



802.11n-HT40 RF Peak Output Power, Middle Channel



802.11n-HT40 RF Peak Output Power, High Channel



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	2013-05-31	2014-05-31

*** 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

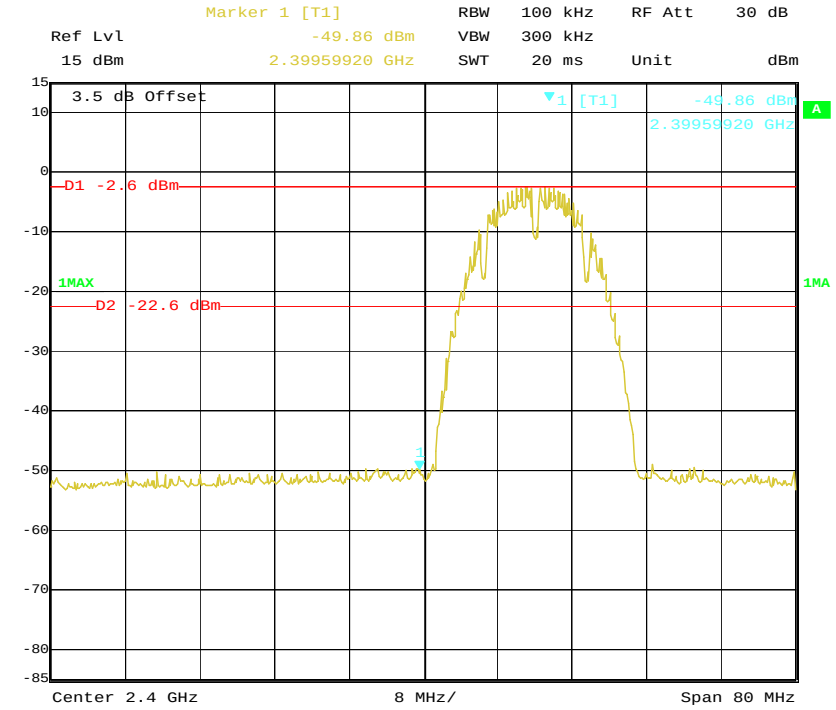
Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	100.1 kPa

The testing was performed by Candy Li on 2013-11-28.

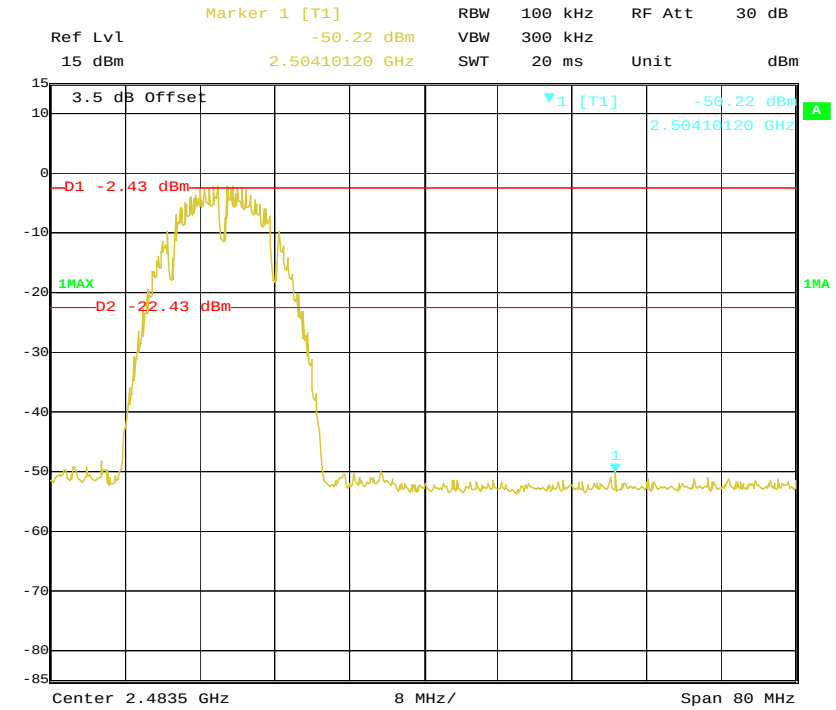
Test Result: *Compliance*

Please refer to the following plots.

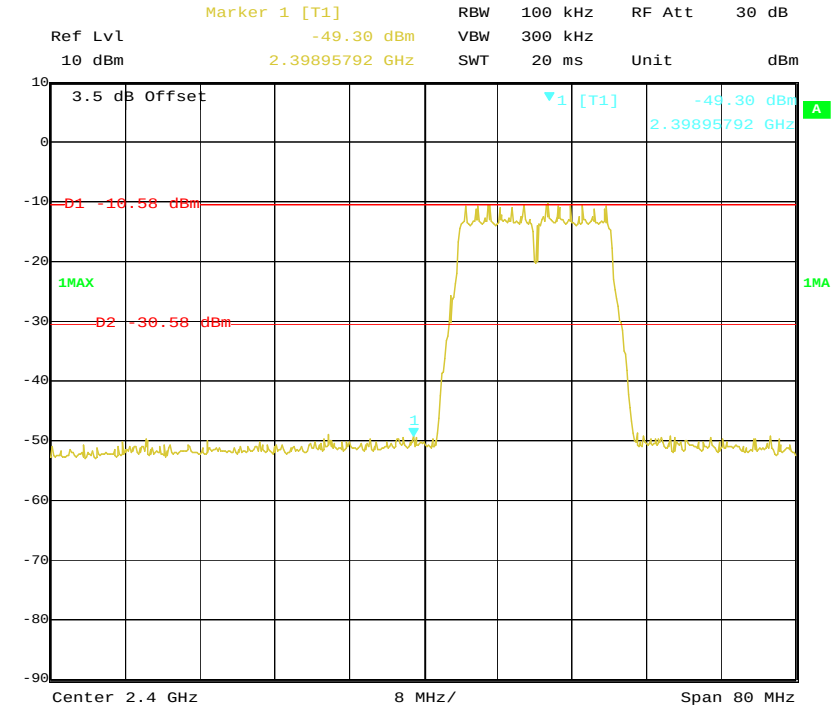
802.11b: Band Edge, Left Side



802.11b: Band Edge, Right Side

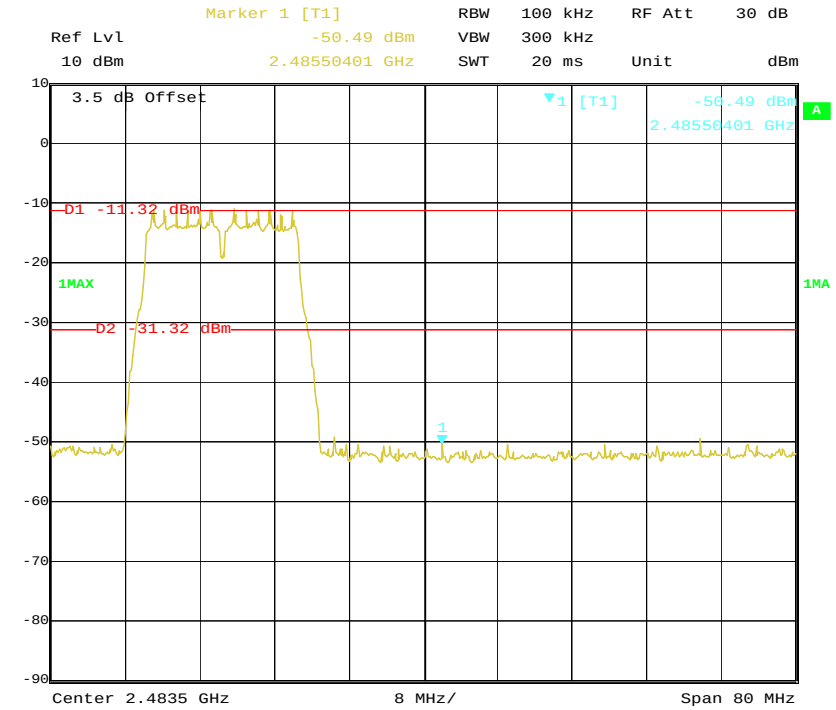


802.11g: Band Edge, Left Side



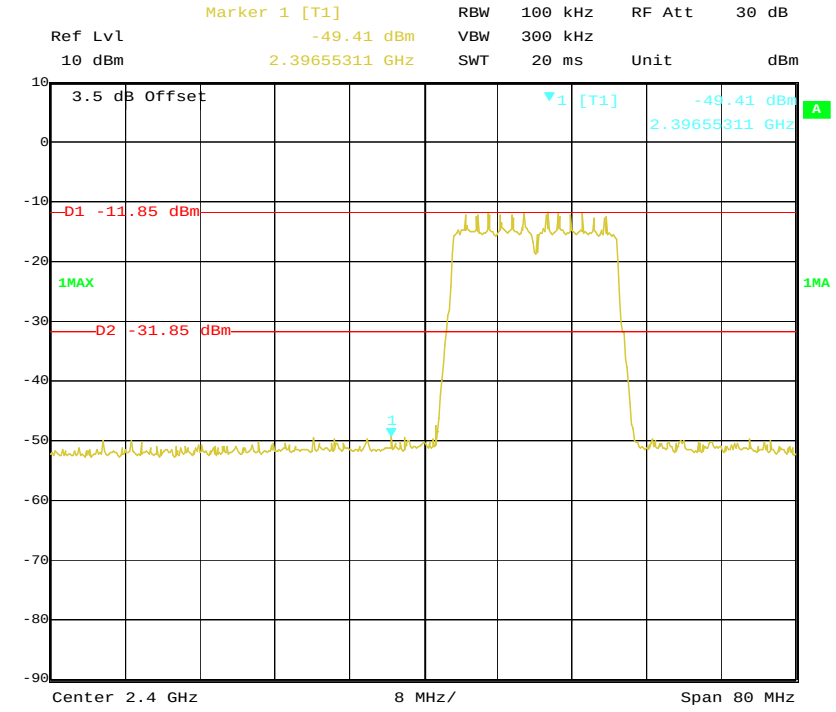
Date: 28.NOV.2013 00:35:40

802.11g: Band Edge, Right Side

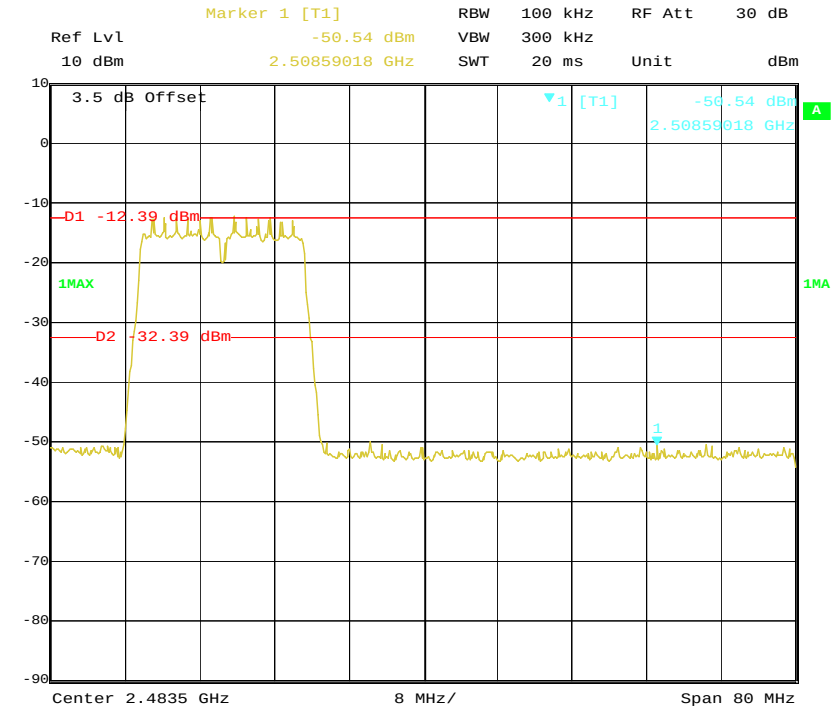


Date: 28.NOV.2013 00:34:11

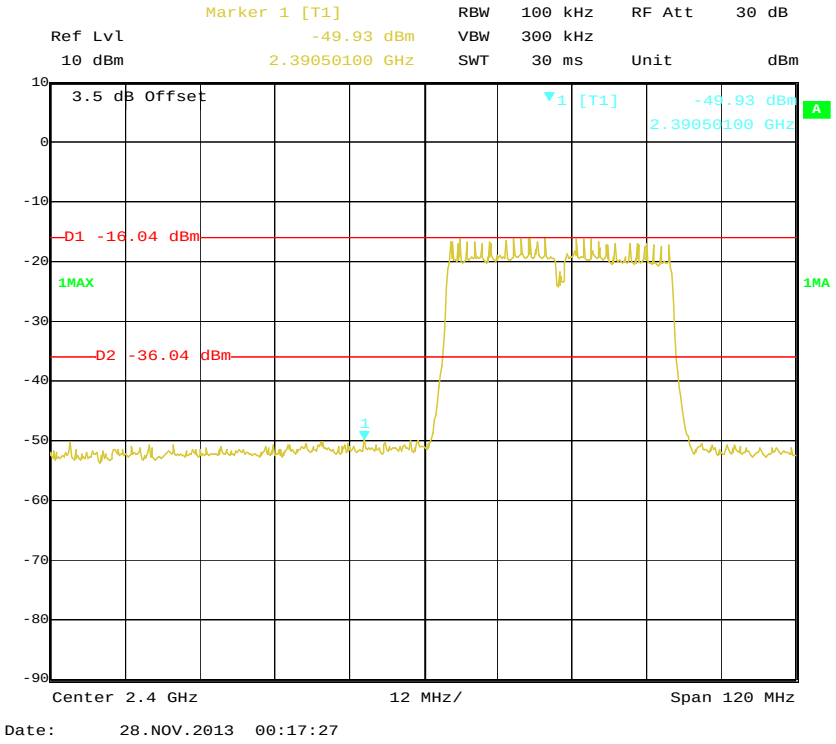
802.11n-HT20: Band Edge, Left Side



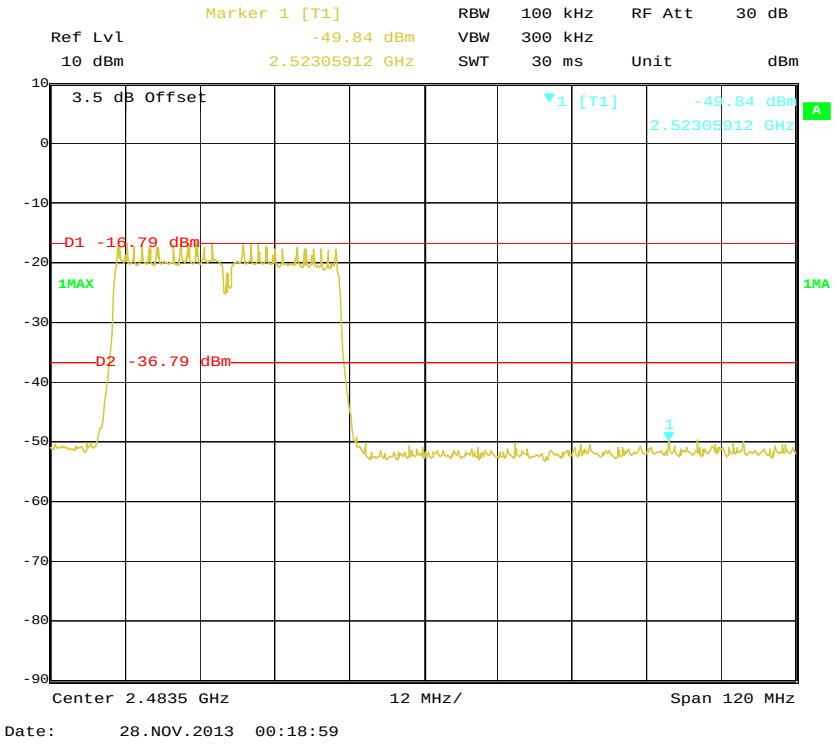
802.11n-HT20: Band Edge, Right Side



802.11n-HT40: Band Edge, Left Side



802.11n-HT40: 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 v03r01 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: 3kHz≤ RBW≤100 kHz.
3. Set the VBW ≥ 3×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	2013-05-31	2014-05-31

*** 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:	24~25 ℃
Relative Humidity:	50~56 %
ATM Pressure:	100.1 kPa

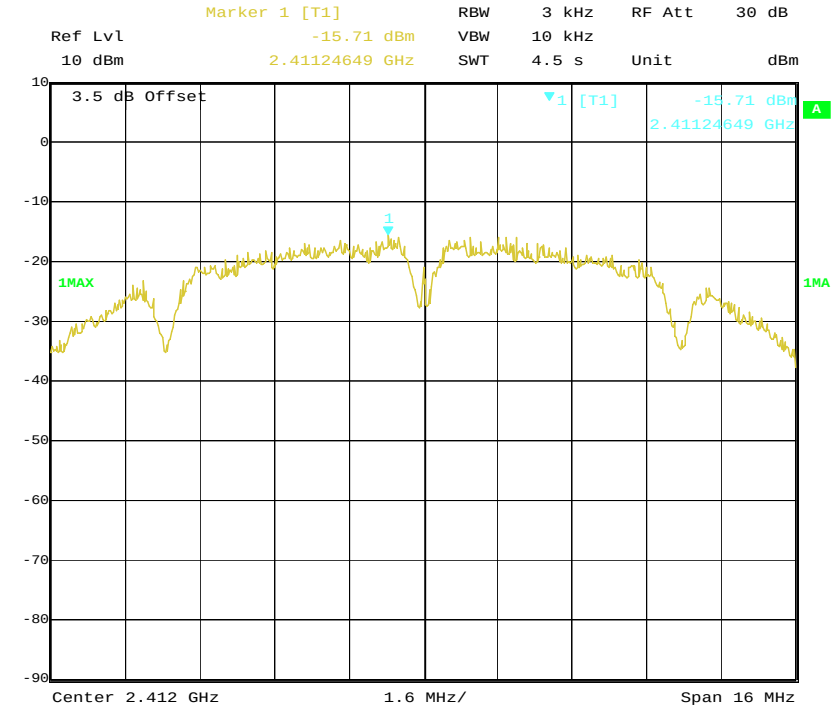
The testing was performed by Candy Li on 2013-11-27 and 2013-11-28.

EUT operation mode: Transmitting

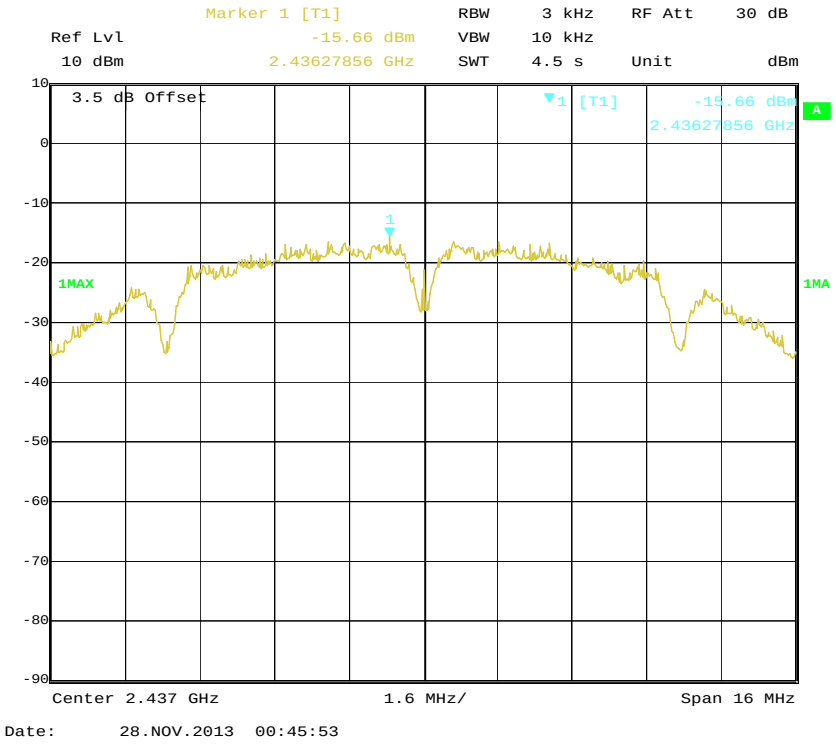
Test Result: Pass

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b mode			
Low	2412	-15.71	≤8
Middle	2437	-15.66	≤8
High	2462	-13.80	≤8
802.11g mode			
Low	2412	-26.63	≤8
Middle	2437	-27.37	≤8
High	2462	-27.76	≤8
802.11n-HT20 mode			
Low	2412	-27.39	≤8
Middle	2437	-27.09	≤8
High	2462	-27.49	≤8
802.11n-HT40 mode			
Low	2422	-27.59	≤8
Middle	2437	-27.81	≤8
High	2452	-27.90	≤8

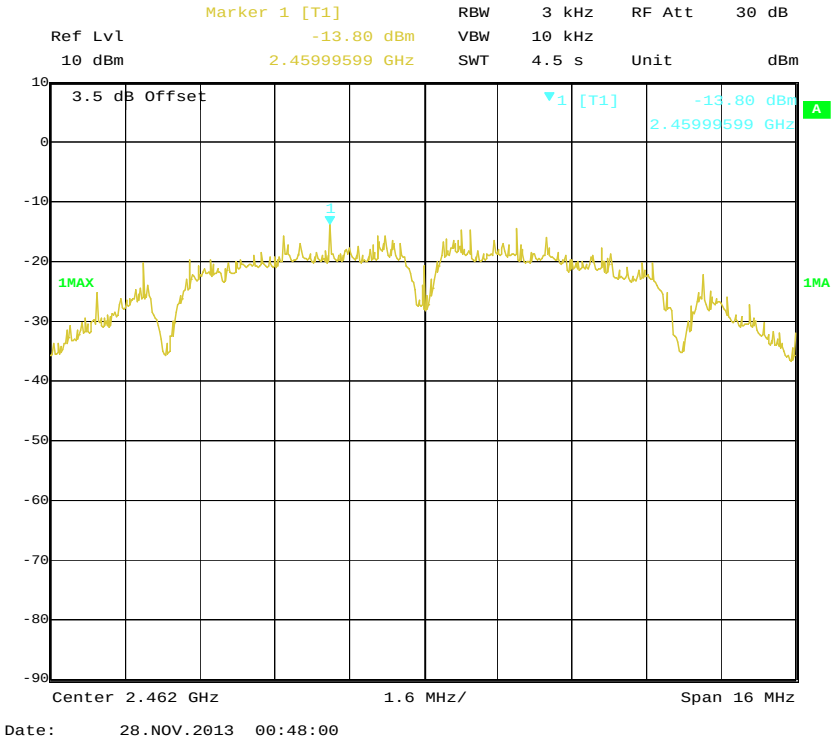
Power Spectral Density, 802.11b Low Channel



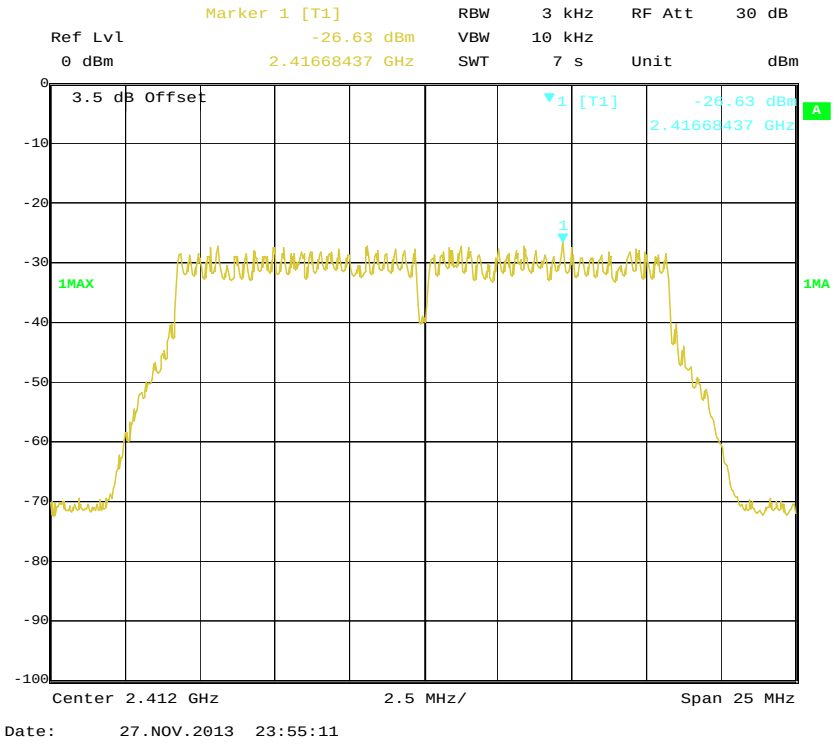
Power Spectral Density, 802.11b Middle Channel



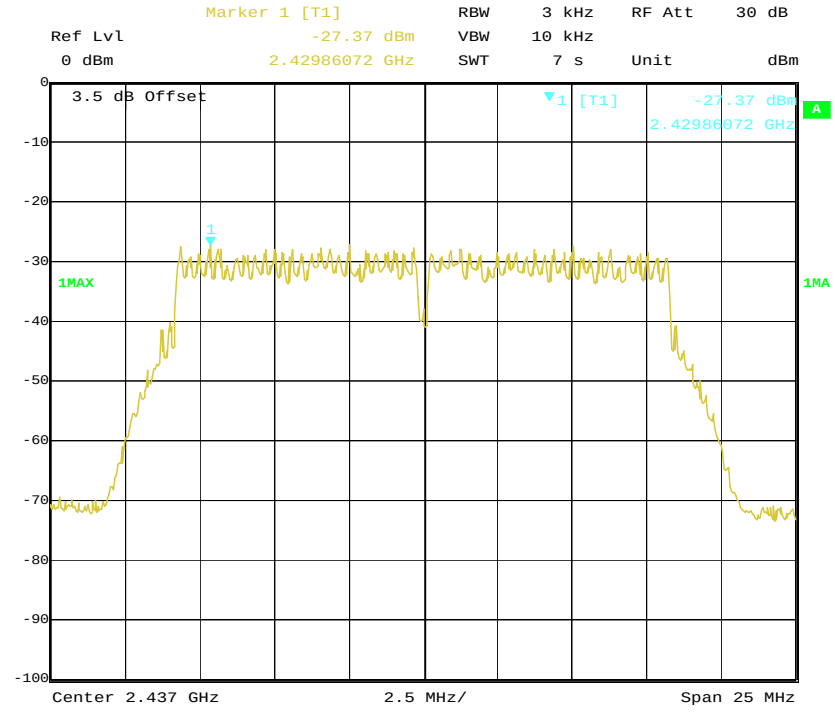
Power Spectral Density, 802.11b High Channel



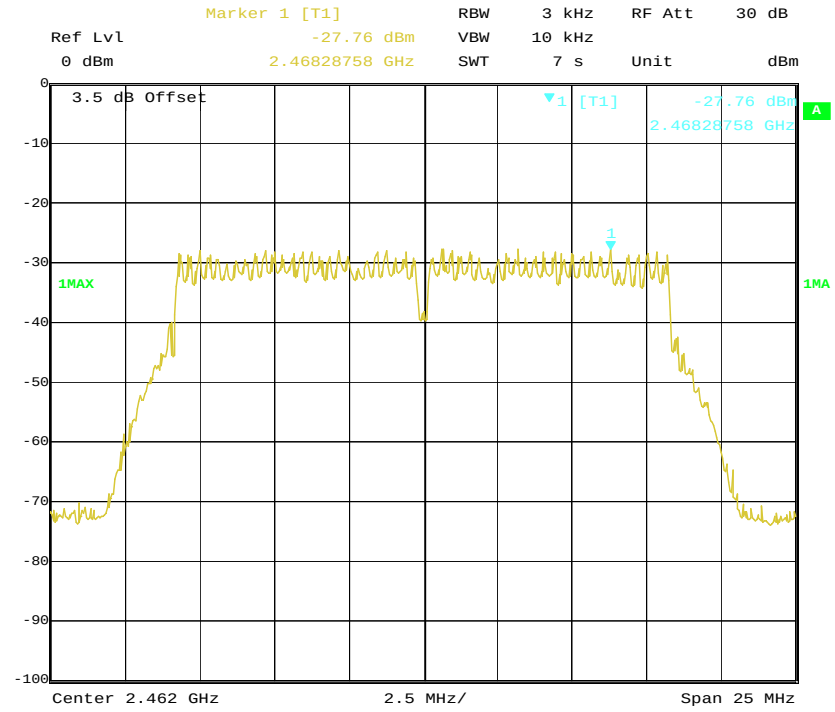
Power Spectral Density, 802.11g Low Channel



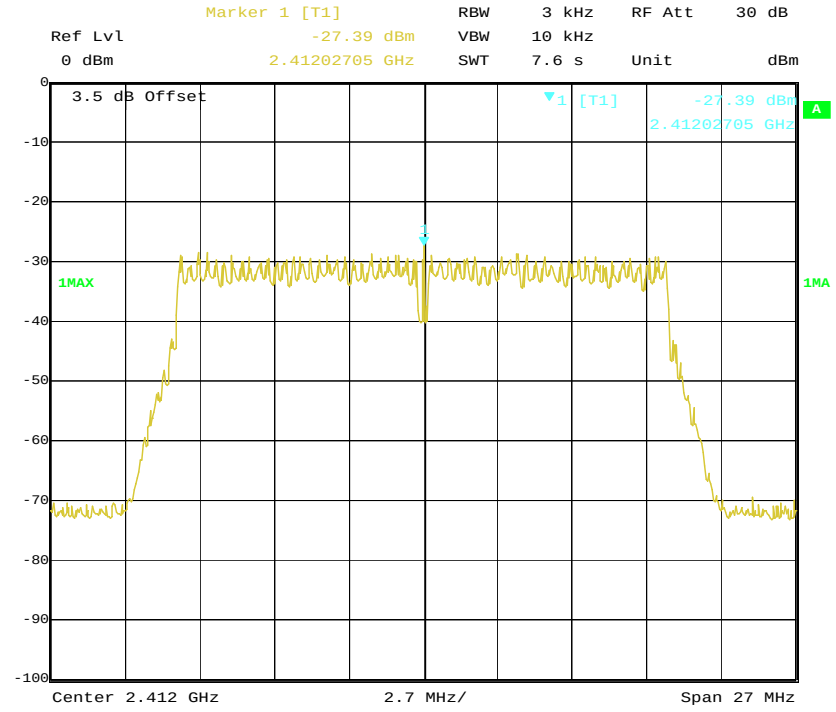
Power Spectral Density, 802.11g Middle Channel



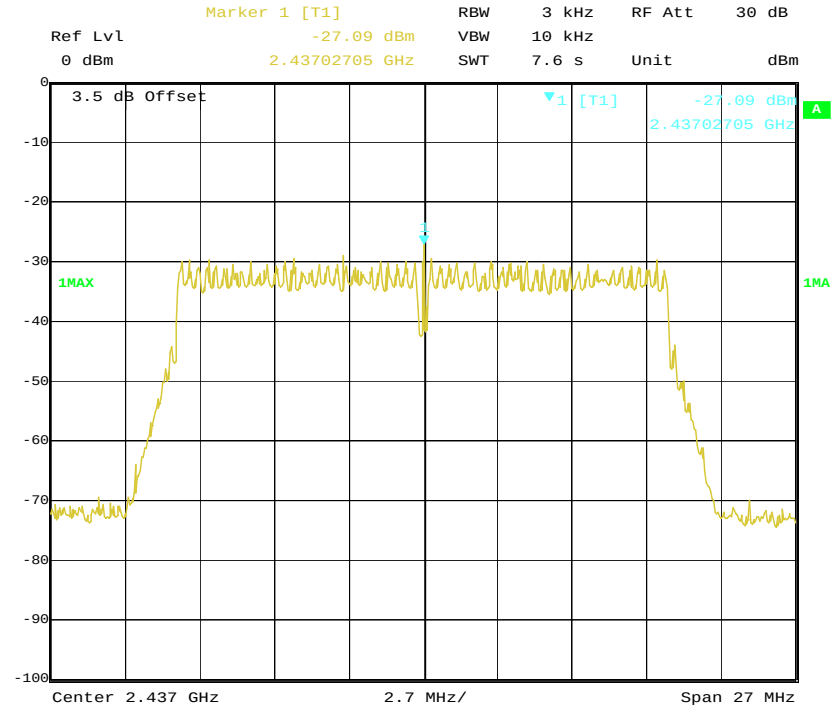
Power Spectral Density, 802.11g High Channel



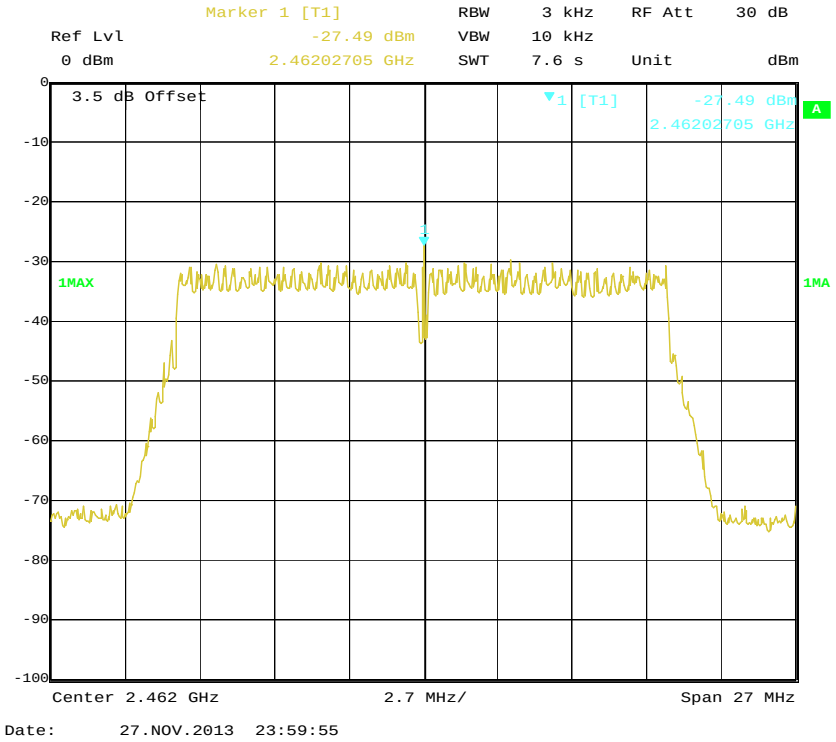
Power Spectral Density, 802.11n-HT20 Low Channel



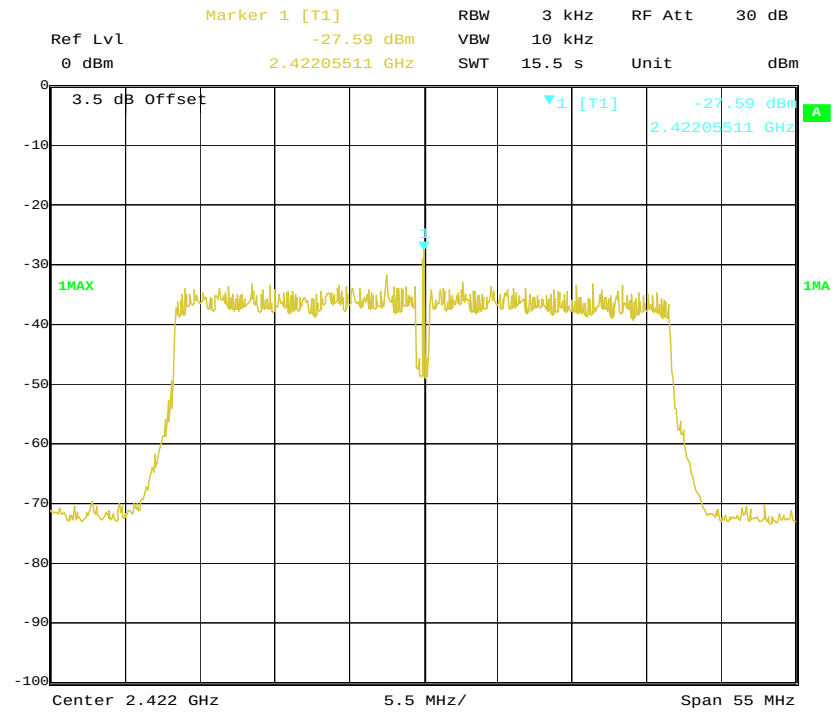
Power Spectral Density, 802.11n-HT20 Middle Channel



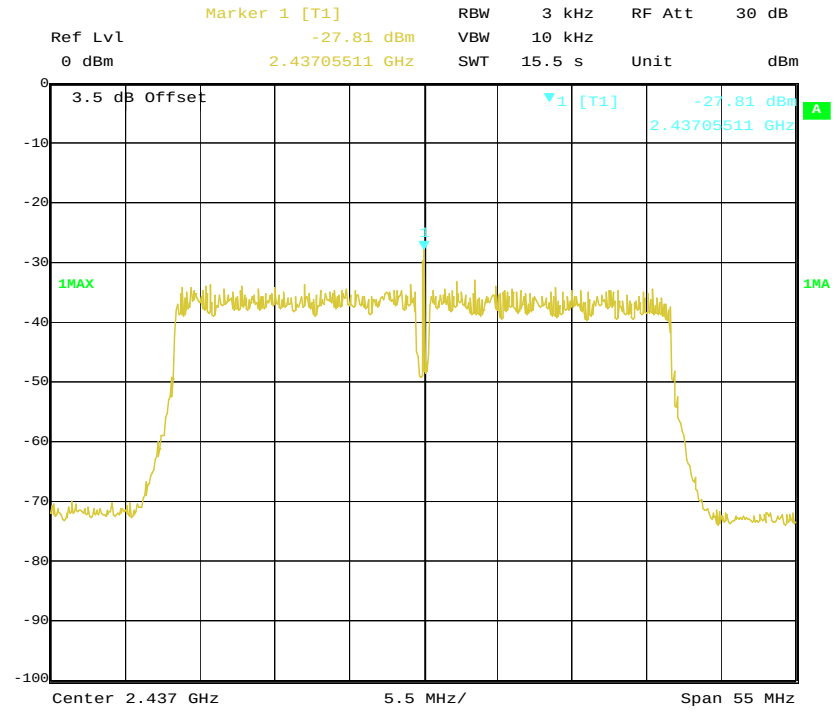
Power Spectral Density, 802.11n-HT20 High Channel



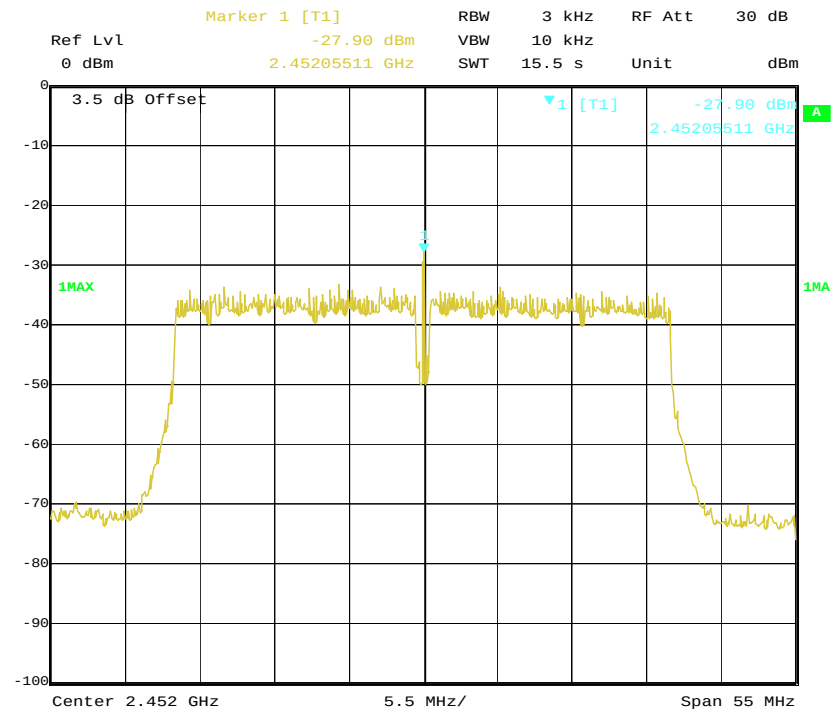
Power Spectral Density, 802.11n-HT40 Low Channel



Power Spectral Density, 802.11n-HT40 Middle Channel



Power Spectral Density, 802.11n-HT40 High Channel



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