FCC PART 15.247

TEST REPORT

For

Roam Data Inc.

101 Federal Street, Suite 700, Boston, Massachusetts, United States

FCC ID: 2ABY6-MOB85

Report Type:	**Product Name:**
Original Report	Moby/X500 Mobile Payment Terminal

Test Engineer:	*Lorin Bian*
Report Number:	RXM170309050C
Report Date:	2017-04-10
Reviewed By:	Henry Ding EMC Leader
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Chengdu) No.5040, Huilongwan Plaza, No.1, Shawan Road, Jinniu District, Chengdu, Sichuan, China Tel: 028-65523123, Fax: 028-65525125 www.baclcorp.com

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The ***Roam Data Inc.****'s* product, model number: ***Moby/8500 (FCC ID: 2ABY6-MOB85)*** (the "EUT") in this report was a ***Moby/X500 Mobile Payment Terminal****,* which was measured approximately: 11.4 cm (L) × 6.4 cm (W) × 1.48 cm (H), rated input voltage: DC3.7V rechargeable Li-ion battery or DC5V from USB port.

**All measurement and test data in this report was gathered from final production sample, serial number: 170309050 (assigned by the BACL, Chengdu). It may have deviation from any other sample. The EUT supplied by the applicant was received on 2017-03-09, and EUT conformed to test requirement.*

Objective

This report is prepared on behalf of ***Roam Data Inc.*** in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communications Commission's rules

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

Related Submittal(s)/Grant(s)

FCC Part 15C DSS submissions with FCC ID: 2ABY6-MOB85.
FCC Part 15.225 DXX submissions with FCC ID: 2ABY6-MOB85.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.62dB
Unwanted Emissions, radiated	30M~200MHz: 4.7 dB for Horizontal, 4.7 dB for Vertical 200M~1GHz:6.0 dB for Horizontal, 6.0 for Vertical 1G~6GHz: 5.13 dB, 6G~18GHz: 5.47 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.17 dB (150 kHz to 30 MHz)

Test Facility

The test site used by BACL to collect test data is located in the No.5040, Huilongwan Plaza, No.1, Shawan Road, Jinniu District, Chengdu, Sichuan, China

Test site at BACL 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 April 24, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 560332. 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

The system was configured for testing in testing mode, which was provided by manufacturer.
For 2.4GHz band, 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, and 802.11n ht20 modes were tested with channel 1, 6 and 11.

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

For Bluetooth LE mode, 40 channels are provided for testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	…	…
…	…	…	…
…	…	…	…
..	…	38	2478
19	2440	39	2480

EUT was tested with channel 0, 19 and 39.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

The worst condition (maximum power) was setting by system default setting, the worst data rate as following table:

Test Mode	Test Software Version	Engineer Mode-TX		
802.11b	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	1Mbps	1Mbps	1Mbps
802.11g	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	6Mbps	6Mbps	6Mbps
802.11n ht20	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	MCS0	MCS0	MCS0

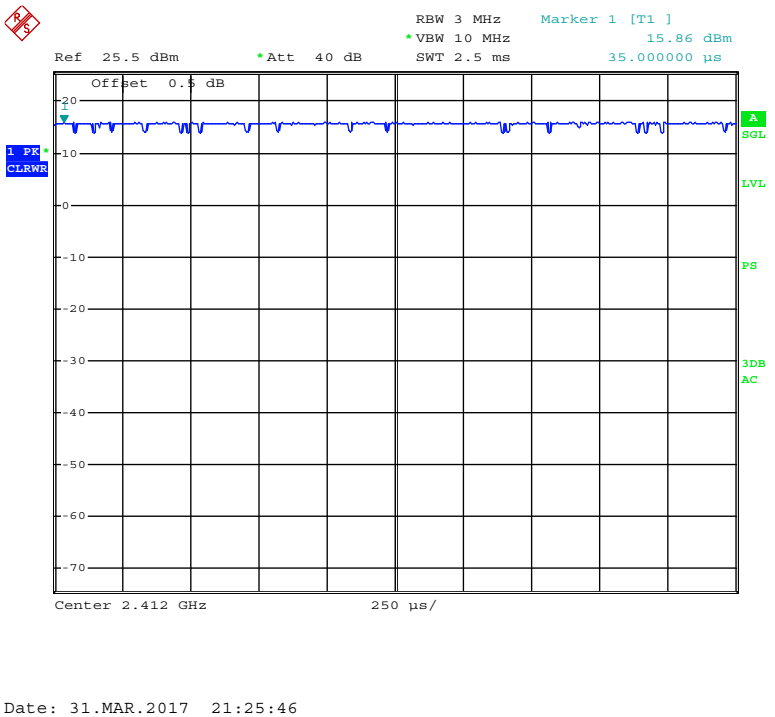
Note: BLE mode configured as maximum power by the system default setting.

The maximum duty cycle as following table:

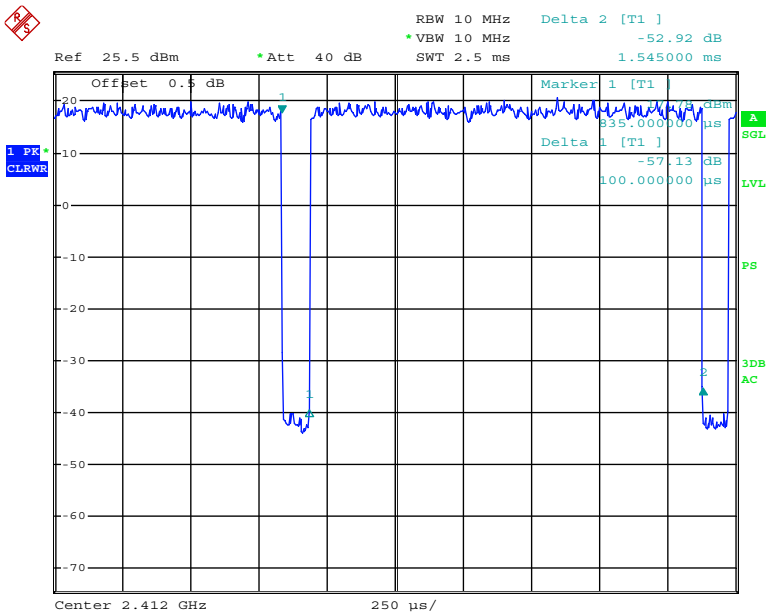
Test mode	T_{on} (ms)	T_{on+off} (ms)	Duty Cycle (%)
802.11b	2.5	2.5	100%
802.11g	1.445	1.545	94%
802.11n ht20	1.355	1.445	94%
BLE	100	100	100%

The minimum transmission duration(T) is 0.40ms for BLE mode.

802.11b



802.11g



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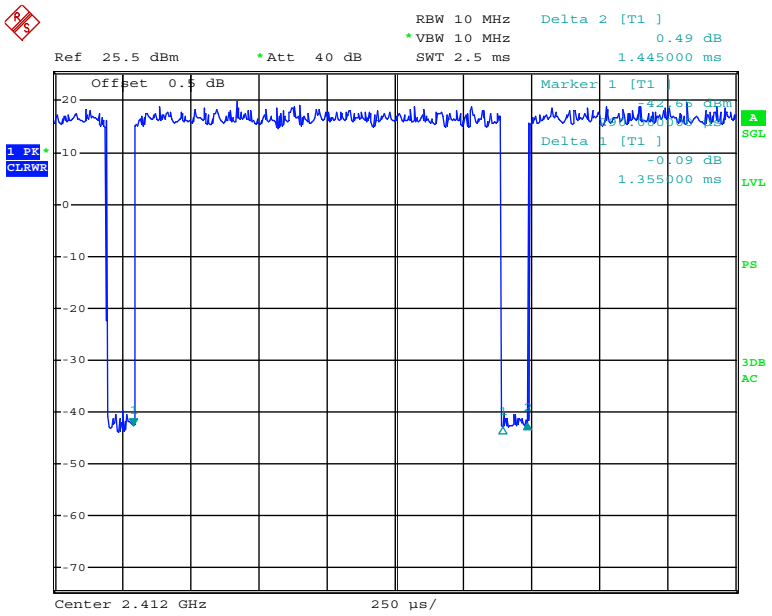
802.11n ht20



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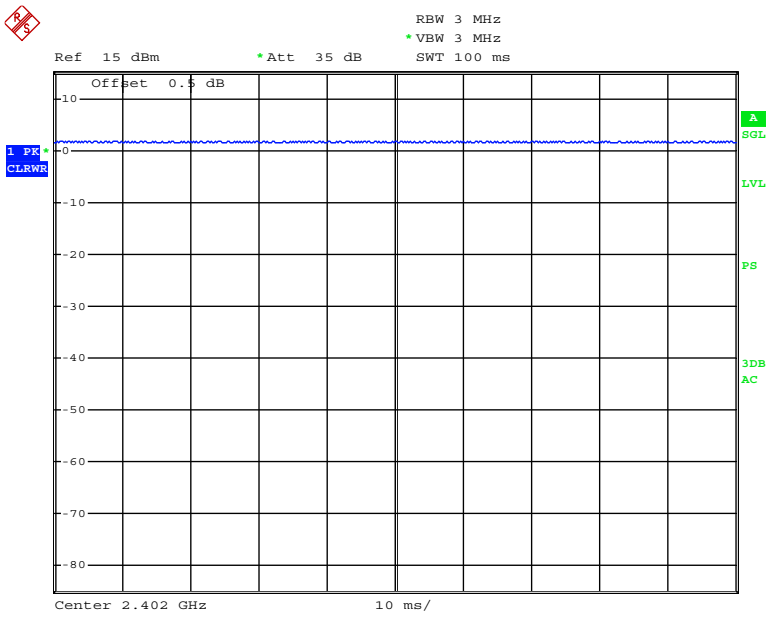
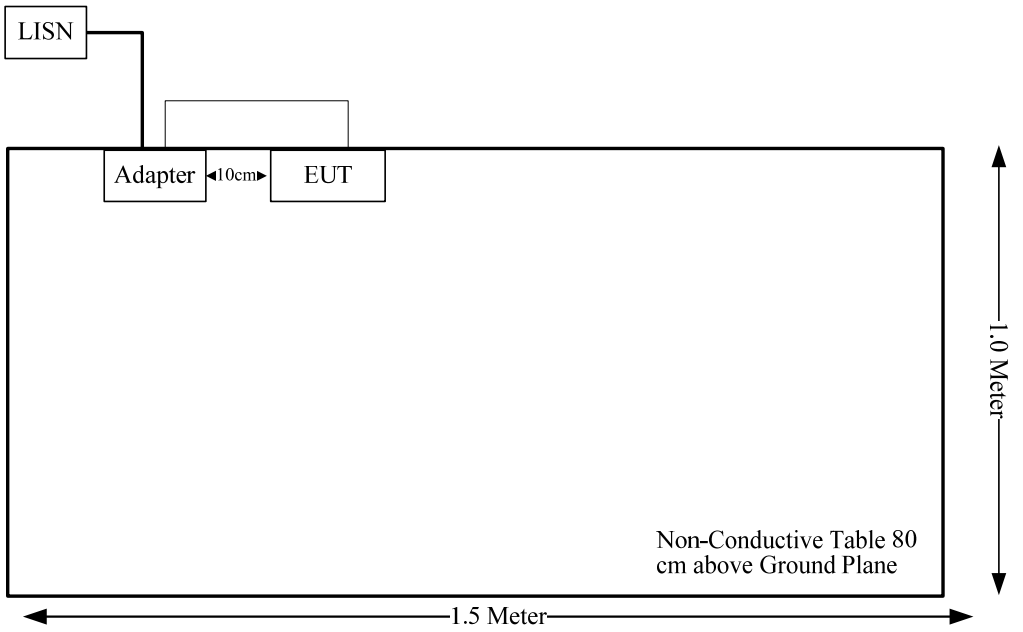
BLE



External Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1.0	Adapter	EUT

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §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) & §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

According to§15.247(i) and §1.1310, 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 KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

This device is hand-held use:

For bluetooth LE mode

The max tune-up conducted power is 3.8 dBm (2.4 mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
= 2.4/5*(√2.48) = 0.8 < 7.5

So the stand-alone SAR evaluation is not necessary.

For WiFi mode

Please refer to the SAR Report: RXM170309050-20.

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.

Antenna Connector Construction

The EUT has one internal antenna arrangement for Wifi and one internal antenna arrangement for BT, and the Wifi antenna gain is 0.4dBi, BT antenna gain is 0.5 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

Compliance or non- compliance with a disturbance limit shall be determined in the following manner：

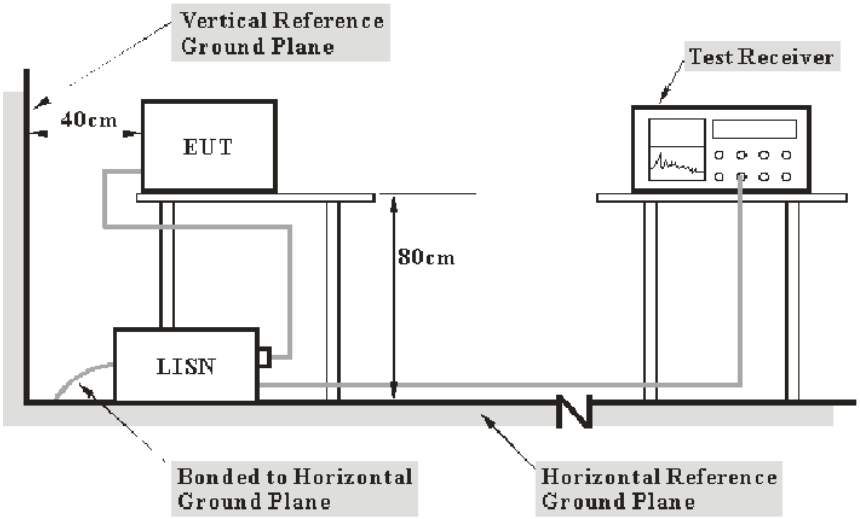
If U_{lab} is less than or equal to U_{cispr} of Table 1, then:
–compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
–non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
If U_{lab} is greater than U_{cispr} of Table 1, then:
–compliance is deemed to occur if no measured disturbance level, increased by (U_{lab} − U_{cispr}), exceeds the disturbance limit;
–non - compliance is deemed to occur if any measured disturbance level, increased by (U_{lab} − U_{cispr}), exceeds the disturbance limit.

Based on CISPR 16-4-2:2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Chengdu) is ±3.17 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cispr}

Measurement	U_{cispr}
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

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 C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 V/60 Hz AC 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 first 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.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$V_C = V_R + A_C + VDF$
$C_f = A_C + VDF$

Herein,
V_C (cord. Reading): corrected voltage amplitude
V_R: reading voltage amplitude
A_c: attenuation caused by cable loss
VDF: voltage division factor of AMN
C_f: Correction Factor

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

Margin = Limit – Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS 30	836858/0016	2016-12-02	2017-12-01
Rohde & Schwarz	PULSE LIMITER	ESH3Z2	357.8810.52	2016-10-31	2017-10-30
Rohde & Schwarz	L.I.S.N.	ENV216	3560.6550.06	2016-12-02	2017-12-01
N/A	Conducted Cable	NO.5	N/A	2016-11-10	2017-11-09
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

*** Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

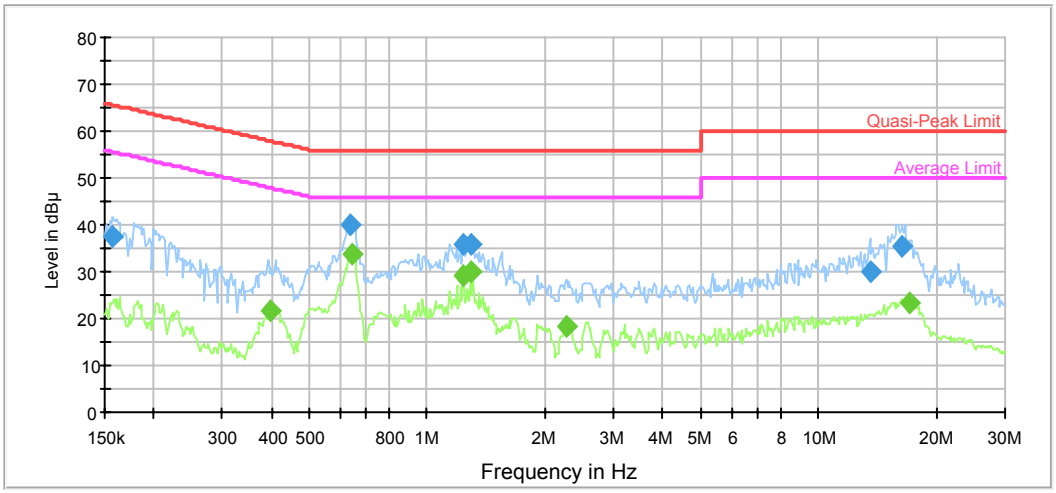
Environmental Conditions

Temperature:	29.6°C
Relative Humidity:	46%
ATM Pressure:	100kPa

The testing was performed by Lorin Bian on 2017-03-23.

Test Mode: Transmitting (Wi-Fi is the worst)

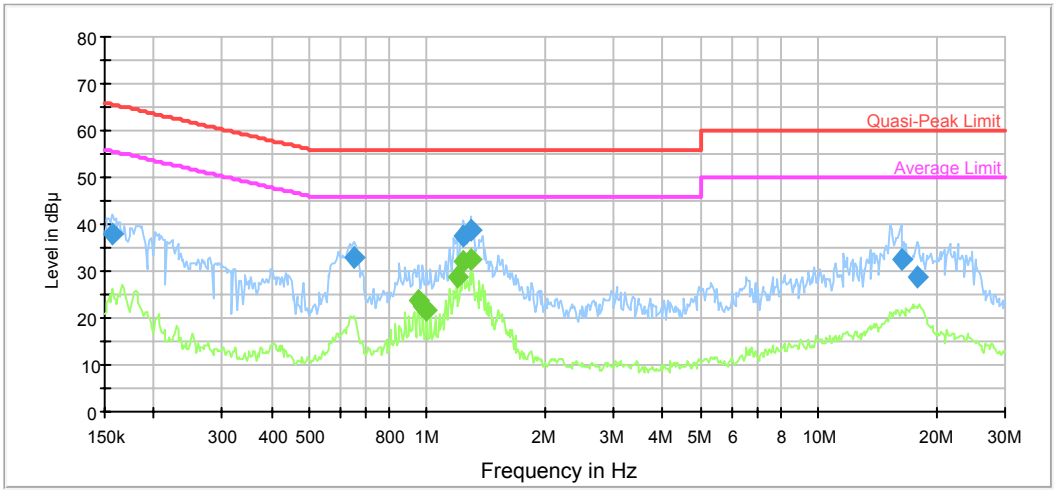
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.157346	37.6	9.000	L1	19.7	28.0	65.6	Compliance
0.639600	40.0	9.000	L1	19.7	16.0	56.0	Compliance
1.239175	36.0	9.000	L1	19.7	20.0	56.0	Compliance
1.289541	36.0	9.000	L1	19.7	20.0	56.0	Compliance
13.529825	30.2	9.000	L1	20.0	29.8	60.0	Compliance
16.381172	35.6	9.000	L1	20.1	24.4	60.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.396530	21.8	9.000	L1	19.8	26.1	47.9	Compliance
0.644717	33.9	9.000	L1	19.7	12.1	46.0	Compliance
1.239175	29.1	9.000	L1	19.7	16.9	46.0	Compliance
1.289541	30.0	9.000	L1	19.7	16.0	46.0	Compliance
2.270560	18.3	9.000	L1	19.7	27.7	46.0	Compliance
17.183363	23.5	9.000	L1	20.1	26.5	50.0	Compliance

AC120 V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.157346	37.9	9.000	N	19.7	27.7	65.6	Compliance
0.649874	32.8	9.000	N	19.6	23.2	56.0	Compliance
1.239175	37.4	9.000	N	19.6	18.6	56.0	Compliance
1.289541	38.6	9.000	N	19.6	17.4	56.0	Compliance
16.251162	32.4	9.000	N	19.9	27.6	60.0	Compliance
17.881783	28.7	9.000	N	19.9	31.3	60.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.952654	23.5	9.000	N	19.7	22.5	46.0	Compliance
0.975701	22.7	9.000	N	19.7	23.3	46.0	Compliance
0.999305	21.7	9.000	N	19.7	24.3	46.0	Compliance
1.190776	28.9	9.000	N	19.6	17.1	46.0	Compliance
1.239175	32.0	9.000	N	19.6	14.0	46.0	Compliance
1.289541	32.5	9.000	N	19.6	13.5	46.0	Compliance

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

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner：

If U_{lab} is less than or equal to U_{cispr} of Table 2, then:
–compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
–non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
If U_{lab} is greater than U_{cispr} of Table 2, then:
–compliance is deemed to occur if no measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit;
–non - compliance is deemed to occur if any measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit.

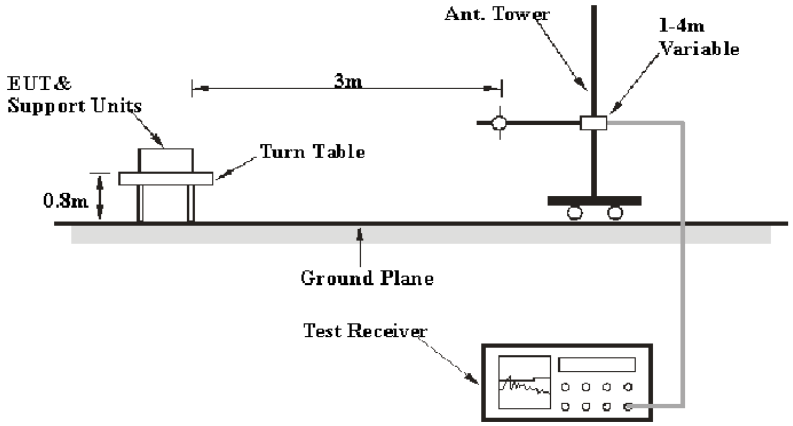
Based on CISPR 16-4-2-2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Chengdu) is:
30M~200MHz: ±4.7 dB ;
200M~1GHz: ±6.0 dB ;
1G~6GHz: ±5.13dB;
6G~25GHz: ±5.47 dB;

Table 2 – Values of U_{cispr}

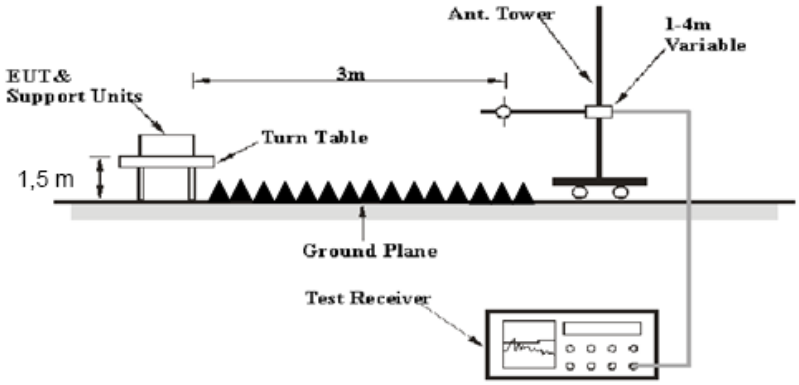
Measurement		U_{cispr}
Radiated disturbance (electric field strength at an OATS or in a SAC)	(30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR)	(1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR)	(6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

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

The spacing between the peripherals was 10 cm.

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:

30MHz-1000MHz:

Detector	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz- 25GHz:

Detector	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
Ave.	>98%	1MHz	10 Hz
	<98%	1MHz	1/T

Note: T is minimum transmission duration

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.

Corrected Amplitude & Margin Calculation

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

Corrected Amplitude = Meter Reading + Antenna Loss + 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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Amplifier	8447D	2944A10442	2016-12-02	2017-12-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
Sunol Sciences	Broadband Antenna	JB3	A101808	2016-04-10	2019-04-09
Rohde & Schwarz	Spectrum Analyzer	FSEM30	100018	2016-12-02	2017-12-01
ETS	Horn Antenna	3115	003-6076	2016-12-02	2017-12-01
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-0113024	2014-06-16	2017-06-15
Mini-circuits	Amplifier	ZVA-183-S+	771001215	2016-05-20	2017-05-19
HP	Amplifier	8449B	3008A00277	2016-12-02	2017-12-01
EMCT	Semi-Anechoic Chamber	966	N/A	2015-04-24	2018-04-23
N/A	RF Cable (below 1GHz)	NO.1	N/A	2016-11-10	2017-11-09
N/A	RF Cable (below 1GHz)	NO.4	N/A	2016-11-10	2017-11-09
N/A	RF Cable (above 1GHz)	NO.2	N/A	2016-11-10	2017-11-09

*** Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	27.8 °C
Relative Humidity:	36 %
ATM Pressure:	99.8 kPa

** The testing was performed by Lorin Bian on 2017-03-22.*

30MHz-25GHz:

802.11b Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	74.42	PK	H	23.50	3.00	0.00	100.92	N/A	N/A
2412	71.23	AV	H	23.50	3.00	0.00	97.73	N/A	N/A
2412	73.03	PK	V	23.50	3.00	0.00	99.53	N/A	N/A
2412	69.77	AV	V	23.50	3.00	0.00	96.27	N/A	N/A
2390	29.59	PK	H	23.57	3.00	0.00	56.16	74	17.84
2390	17.45	AV	H	23.57	3.00	0.00	44.02	54	9.98
4824	35.15	PK	H	30.84	5.11	26.87	44.23	74	29.77
4824	23.32	AV	H	30.84	5.11	26.87	32.4	54	21.6
7236	33.64	PK	H	34.77	6.18	26.36	48.23	74	25.77
7236	21.99	AV	H	34.77	6.18	26.36	36.58	54	17.42
1378	36.77	PK	H	23.78	2.50	26.45	36.6	74	37.4
1378	24.55	AV	H	23.78	2.50	26.45	24.38	54	29.62
300.63	48.74	QP	H	14.12	1.04	27.54	36.36	46.00	9.64
542.16	39.87	QP	H	18.52	1.71	28.83	31.27	46.00	14.73
Middle Channel: 2437 MHz									
2437	74.97	PK	H	23.41	3.00	0.00	101.38	N/A	N/A
2437	71.19	AV	H	23.41	3.00	0.00	97.6	N/A	N/A
2437	73.18	PK	V	23.41	3.00	0.00	99.59	N/A	N/A
2437	69.72	AV	V	23.41	3.00	0.00	96.13	N/A	N/A
4874	36.22	PK	H	31.00	5.09	26.87	45.44	74	28.56
4874	23.74	AV	H	31.00	5.09	26.87	32.96	54	21.04
7311	33.48	PK	H	34.92	6.21	26.40	48.21	74	25.79
7311	21.89	AV	H	34.92	6.21	26.40	36.62	54	17.38
1738	36.56	PK	H	24.48	2.85	26.56	37.33	74	36.67
1738	24.55	AV	H	24.48	2.85	26.56	25.32	54	28.68
1378	36.87	PK	H	23.78	2.50	26.45	36.7	74	37.3
1378	23.79	AV	H	23.78	2.50	26.45	23.62	54	30.38
300.63	49.01	QP	H	14.12	1.04	27.54	36.63	46.00	9.37
542.16	40.01	QP	H	18.52	1.71	28.83	31.41	46.00	14.59
High Channel: 2462 MHz									
2462	74.77	PK	H	23.33	2.99	0.00	101.09	N/A	N/A
2462	71.54	AV	H	23.33	2.99	0.00	97.86	N/A	N/A
2462	73.62	PK	V	23.33	2.99	0.00	99.94	N/A	N/A
2462	70.55	AV	V	23.33	2.99	0.00	96.87	N/A	N/A
2483.5	30.55	PK	H	23.26	2.99	0.00	56.8	74	17.2
2483.5	17.62	AV	H	23.26	2.99	0.00	43.87	54	10.13
4924	35.40	PK	H	31.16	5.07	26.88	44.75	74	29.25
4924	23.84	AV	H	31.16	5.07	26.88	33.19	54	20.81
7386	34.35	PK	H	35.07	6.25	26.43	49.24	74	24.76
7386	21.53	AV	H	35.07	6.25	26.43	36.42	54	17.58
1378	36.66	PK	H	23.78	2.50	26.45	36.49	74	37.51
1378	24.35	AV	H	23.78	2.50	26.45	24.18	54	29.82
300.63	49.85	QP	H	14.12	1.04	27.54	37.47	46.00	8.53
542.16	40.43	QP	H	18.52	1.71	28.83	31.83	46.00	14.17

802.11g Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	78.40	PK	H	23.50	3.00	0.00	104.9	N/A	N/A
2412	67.64	AV	H	23.50	3.00	0.00	94.14	N/A	N/A
2412	77.42	PK	V	23.50	3.00	0.00	103.92	N/A	N/A
2412	66.66	AV	V	23.50	3.00	0.00	93.16	N/A	N/A
2390	41.47	PK	H	23.57	3.00	0.00	68.04	74	5.96
2390	25.22	AV	H	23.57	3.00	0.00	51.79	54	2.21
4824	35.06	PK	H	30.84	5.11	26.87	44.14	74	29.86
4824	23.03	AV	H	30.84	5.11	26.87	32.11	54	21.89
7236	33.65	PK	H	34.77	6.18	26.36	48.24	74	25.76
7236	21.26	AV	H	34.77	6.18	26.36	35.85	54	18.15
1378	37.05	PK	H	23.78	2.50	26.45	36.88	74	37.12
1378	24.21	AV	H	23.78	2.50	26.45	24.04	54	29.96
300.63	49.38	QP	H	14.12	1.04	27.54	37.00	46.00	9.00
542.16	40.87	QP	H	18.52	1.71	28.83	32.27	46.00	13.73
Middle Channel: 2437 MHz									
2437	78.45	PK	H	23.41	3.00	0.00	104.86	N/A	N/A
2437	68.27	AV	H	23.41	3.00	0.00	94.68	N/A	N/A
2437	78.19	PK	V	23.41	3.00	0.00	104.6	N/A	N/A
2437	67.02	AV	V	23.41	3.00	0.00	93.43	N/A	N/A
4874	35.33	PK	H	31.00	5.09	26.87	44.55	74	29.45
4874	23.23	AV	H	31.00	5.09	26.87	32.45	54	21.55
7311	33.88	PK	H	34.92	6.21	26.40	48.61	74	25.39
7311	21.44	AV	H	34.92	6.21	26.40	36.17	54	17.83
1738	36.51	PK	H	24.48	2.85	26.56	37.28	74	36.72
1738	24.44	AV	H	24.48	2.85	26.56	25.21	54	28.79
1378	36.66	PK	H	23.78	2.50	26.45	36.49	74	37.51
1378	24.59	AV	H	23.78	2.50	26.45	24.42	54	29.58
300.63	48.91	QP	H	14.12	1.04	27.54	36.53	46.00	9.47
542.16	41.31	QP	H	18.52	1.71	28.83	32.71	46.00	13.29
High Channel: 2462 MHz									
2462	78.56	PK	H	23.33	2.99	0.00	104.88	N/A	N/A
2462	67.15	AV	H	23.33	2.99	0.00	93.47	N/A	N/A
2462	78.01	PK	V	23.33	2.99	0.00	104.33	N/A	N/A
2462	67.43	AV	V	23.33	2.99	0.00	93.75	N/A	N/A
2483.5	43.94	PK	H	23.26	2.99	0.00	70.19	74	3.81
2483.5	24.90	AV	H	23.26	2.99	0.00	51.15	54	2.85
4924	35.95	PK	H	31.16	5.07	26.88	45.3	74	28.7
4924	23.86	AV	H	31.16	5.07	26.88	33.21	54	20.79
7386	34.08	PK	H	35.07	6.25	26.43	48.97	74	25.03
7386	21.80	AV	H	35.07	6.25	26.43	36.69	54	17.31
1378	36.05	PK	H	23.78	2.50	26.45	35.88	74	38.12
1378	24.07	AV	H	23.78	2.50	26.45	23.9	54	30.1
300.63	49.77	QP	H	14.12	1.04	27.54	37.39	46.00	8.61
542.16	38.16	QP	H	18.52	1.71	28.83	29.56	46.00	16.44

802.11 n ht20 Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	76.81	PK	H	23.50	3.00	0.00	103.31	N/A	N/A
2412	66.96	AV	H	23.50	3.00	0.00	93.46	N/A	N/A
2412	75.75	PK	V	23.50	3.00	0.00	102.25	N/A	N/A
2412	65.57	AV	V	23.50	3.00	0.00	92.07	N/A	N/A
2390	41.87	PK	H	23.57	3.00	0.00	68.44	74	5.56
2390	24.59	AV	H	23.57	3.00	0.00	51.16	54	2.84
4824	36.25	PK	H	30.84	5.11	26.87	45.33	74	28.67
4824	23.84	AV	H	30.84	5.11	26.87	32.92	54	21.08
7236	33.53	PK	H	34.77	6.18	26.36	48.12	74	25.88
7236	21.14	AV	H	34.77	6.18	26.36	35.73	54	18.27
1378	37.07	PK	H	23.78	2.50	26.45	36.9	74	37.1
1378	24.46	AV	H	23.78	2.50	26.45	24.29	54	29.71
300.63	50.04	QP	H	14.12	1.04	27.54	37.66	46.00	8.34
542.16	38.3	QP	H	18.52	1.71	28.83	29.70	46.00	16.30
Middle Channel: 2437 MHz									
2437	77.59	PK	H	23.41	3.00	0.00	104	N/A	N/A
2437	67.30	AV	H	23.41	3.00	0.00	93.71	N/A	N/A
2437	75.31	PK	V	23.41	3.00	0.00	101.72	N/A	N/A
2437	64.99	AV	V	23.41	3.00	0.00	91.4	N/A	N/A
4874	34.99	PK	H	31.00	5.09	26.87	44.21	74	29.79
4874	23.58	AV	H	31.00	5.09	26.87	32.8	54	21.2
7311	33.63	PK	H	34.92	6.21	26.40	48.36	74	25.64
7311	21.09	AV	H	34.92	6.21	26.40	35.82	54	18.18
1738	36.86	PK	H	24.48	2.85	26.56	37.63	74	36.37
1738	24.60	AV	H	24.48	2.85	26.56	25.37	54	28.63
1378	36.49	PK	H	23.78	2.50	26.45	36.32	74	37.68
1378	23.84	AV	H	23.78	2.50	26.45	23.67	54	30.33
300.63	50.88	QP	H	14.12	1.04	27.54	38.50	46.00	7.50
542.16	38.72	QP	H	18.52	1.71	28.83	30.12	46.00	15.88
High Channel: 2462 MHz									
2462	76.16	PK	H	23.33	2.99	0.00	102.48	N/A	N/A
2462	65.74	AV	H	23.33	2.99	0.00	92.06	N/A	N/A
2462	75.55	PK	V	23.33	2.99	0.00	101.87	N/A	N/A
2462	65.26	AV	V	23.33	2.99	0.00	91.58	N/A	N/A
2483.5	44.84	PK	H	23.26	2.99	0.00	71.09	74	2.91
2483.5	22.85	AV	H	23.26	2.99	0.00	49.1	54	4.9
4924	35.10	PK	H	31.16	5.07	26.88	44.45	74	29.55
4924	24.15	AV	H	31.16	5.07	26.88	33.5	54	20.5
7386	34.89	PK	H	35.07	6.25	26.43	49.78	74	24.22
7386	22.64	AV	H	35.07	6.25	26.43	37.53	54	16.47
1378	37.83	PK	H	23.78	2.50	26.45	37.66	74	36.34
1378	24.45	AV	H	23.78	2.50	26.45	24.28	54	29.72
300.63	50.41	QP	H	14.12	1.04	27.54	38.03	46.00	7.97
542.16	39.16	QP	H	18.52	1.71	28.83	30.56	46.00	15.44

BLE Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2402 MHz									
2402	71.79	PK	H	23.53	3.00	0.00	98.32	N/A	N/A
2402	68.06	AV	H	23.53	3.00	0.00	94.59	N/A	N/A
2402	70.28	PK	V	23.53	3.00	0.00	96.81	N/A	N/A
2402	66.98	AV	V	23.53	3.00	0.00	93.51	N/A	N/A
2390	28.05	PK	H	23.57	3.00	0.00	54.62	74	19.38
2390	16.19	AV	H	23.57	3.00	0.00	42.76	54	11.24
4804	38.57	PK	H	30.77	5.12	26.87	47.59	74	26.41
4804	26.66	AV	H	30.77	5.12	26.87	35.68	54	18.32
7206	35.38	PK	H	34.71	6.16	26.35	49.9	74	24.1
7206	23.78	AV	H	34.71	6.16	26.35	38.3	54	15.7
9608	39.35	PK	H	37.06	7.82	26.18	58.05	74	15.95
9608	25.61	AV	H	37.06	7.82	26.18	44.31	54	9.69
3143	39.70	PK	H	25.00	3.64	26.46	41.88	74	32.12
3143	27.90	AV	H	25.00	3.64	26.46	30.08	54	23.92
300.63	49.94	QP	H	14.12	1.04	27.54	37.56	46.00	8.44
542.16	39.6	QP	H	18.52	1.71	28.83	31.00	46.00	15.00
Middle Channel: 2440 MHz									
2440	71.58	PK	H	23.40	3.00	0.00	97.98	N/A	N/A
2440	68.87	AV	H	23.40	3.00	0.00	95.27	N/A	N/A
2440	70.71	PK	V	23.40	3.00	0.00	97.11	N/A	N/A
2440	67.59	AV	V	23.40	3.00	0.00	93.99	N/A	N/A
4880	38.74	PK	H	31.02	5.09	26.87	47.98	74	26.02
4880	26.24	AV	H	31.02	5.09	26.87	35.48	54	18.52
7320	35.90	PK	H	34.94	6.22	26.40	50.66	74	23.34
7320	23.53	AV	H	34.94	6.22	26.40	38.29	54	15.71
9760	40.01	PK	H	37.16	7.71	26.27	58.61	74	15.39
9760	25.99	AV	H	37.16	7.71	26.27	44.59	54	9.41
3379	41.13	PK	H	26.32	4.00	26.55	44.9	74	29.1
3379	29.36	AV	H	26.32	4.00	26.55	33.13	54	20.87
300.63	48.79	QP	H	14.12	1.04	27.54	36.41	46.00	9.59
542.16	39.47	QP	H	18.52	1.71	28.83	30.87	46.00	15.13
High Channel: 2480 MHz									
2480	74.50	PK	H	23.27	2.99	0.00	100.76	N/A	N/A
2480	70.78	AV	H	23.27	2.99	0.00	97.04	N/A	N/A
2480	70.80	PK	V	23.27	2.99	0.00	97.06	N/A	N/A
2480	68.32	AV	V	23.27	2.99	0.00	94.58	N/A	N/A
2483.5	28.90	PK	H	23.26	2.99	0.00	55.15	74	18.85
2483.5	15.90	AV	H	23.26	2.99	0.00	42.15	54	11.85
4960	39.35	PK	H	31.27	5.05	26.88	48.79	74	25.21
4960	26.71	AV	H	31.27	5.05	26.88	36.15	54	17.85
7440	36.54	PK	H	35.18	6.27	26.45	51.54	74	22.46
7440	24.58	AV	H	35.18	6.27	26.45	39.58	54	14.42
9920	40.81	PK	H	37.25	7.60	26.37	59.29	74	14.71
9920	27.48	AV	H	37.25	7.60	26.37	45.96	54	8.04
300.63	49.06	QP	H	14.12	1.04	27.54	36.68	46.00	9.32
542.16	39.61	QP	H	18.52	1.71	28.83	31.01	46.00	14.99

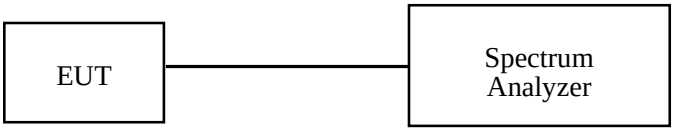
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

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

a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3×RBW
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
N/A	RF Cable	N/A	N/A	Each Time	/

*** Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	26.1~28.5 °C
Relative Humidity:	33~34%
ATM Pressure:	101.3~101.5 kPa

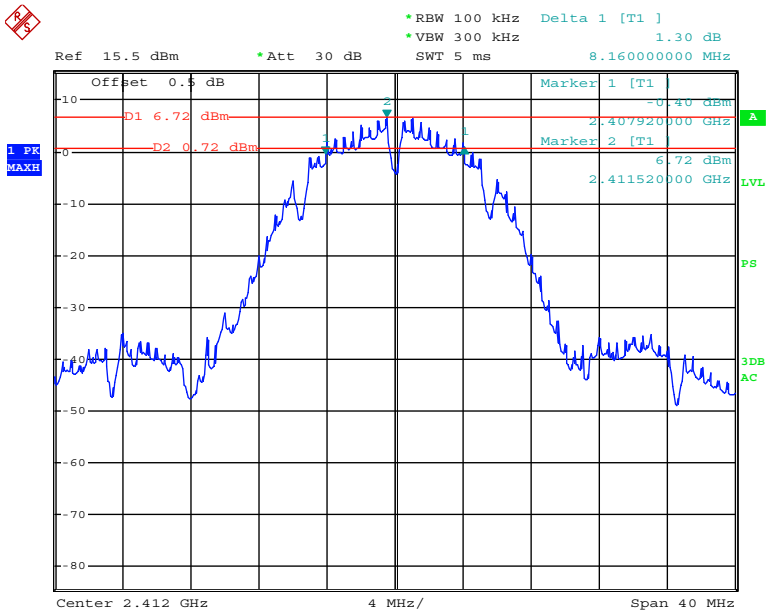
** The testing was performed by Lorin Bian from 2017-03-31 to 2017-04-01.*

Test Mode: Transmitting

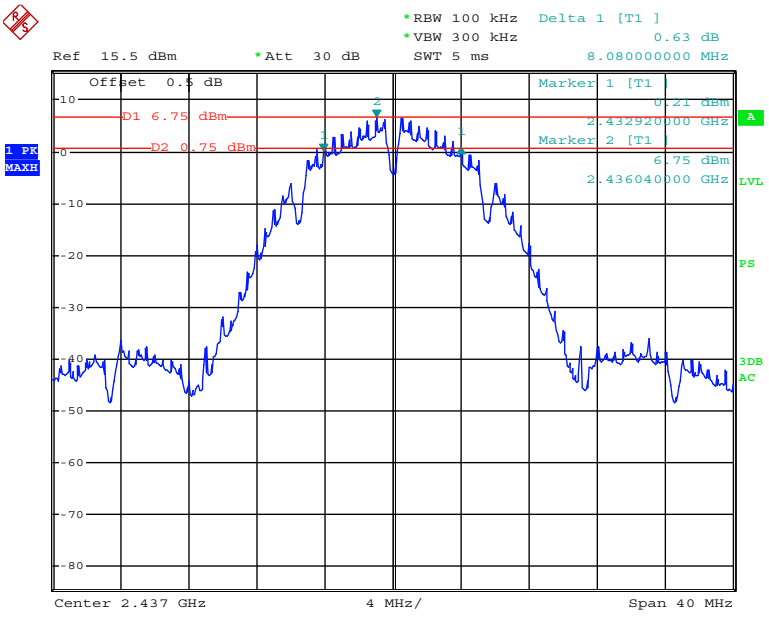
Test Result: Compliant. Please refer to the following table and plots.

Test mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	8.16	≥0.5
	Middle	2437	8.08	≥0.5
	High	2462	8.00	≥0.5
802.11g	Low	2412	15.2	≥0.5
	Middle	2437	15.2	≥0.5
	High	2462	15.2	≥0.5
802.11n20	Low	2412	15.2	≥0.5
	Middle	2437	15.28	≥0.5
	High	2462	15.2	≥0.5
BLE	Low	2402	1.09	≥0.5
	Middle	2440	1.09	≥0.5
	High	2480	1.09	≥0.5

802.11b Low Channel

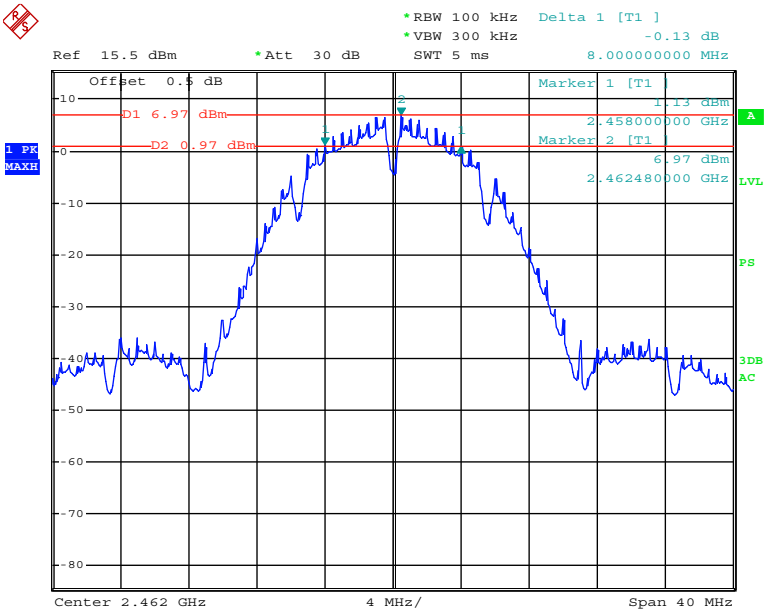


802.11b Middle Channel



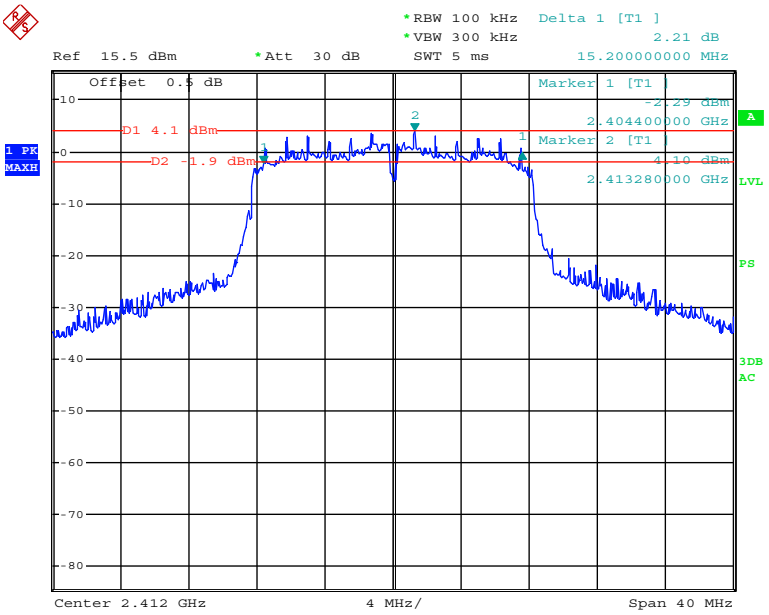
Date: 31.MAR.2017 18:37:24

802.11b High Channel



Date: 31.MAR.2017 18:39:13

802.11g Low Channel



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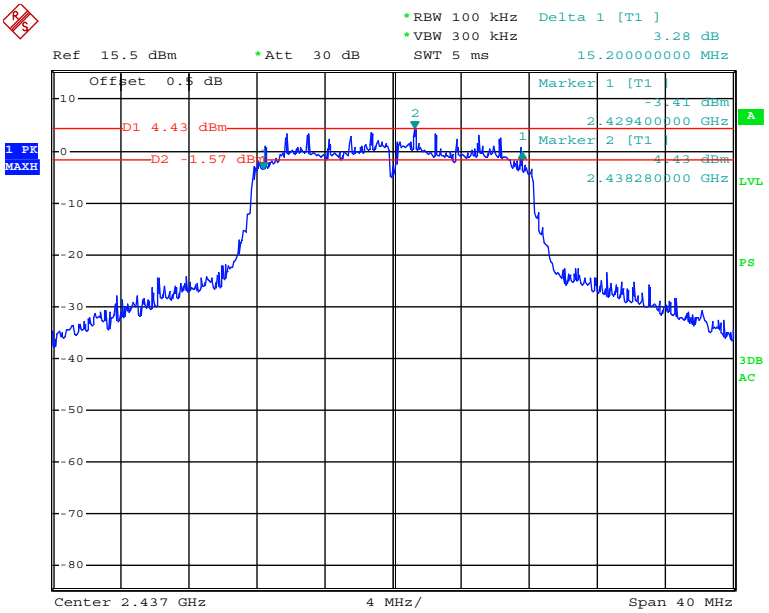
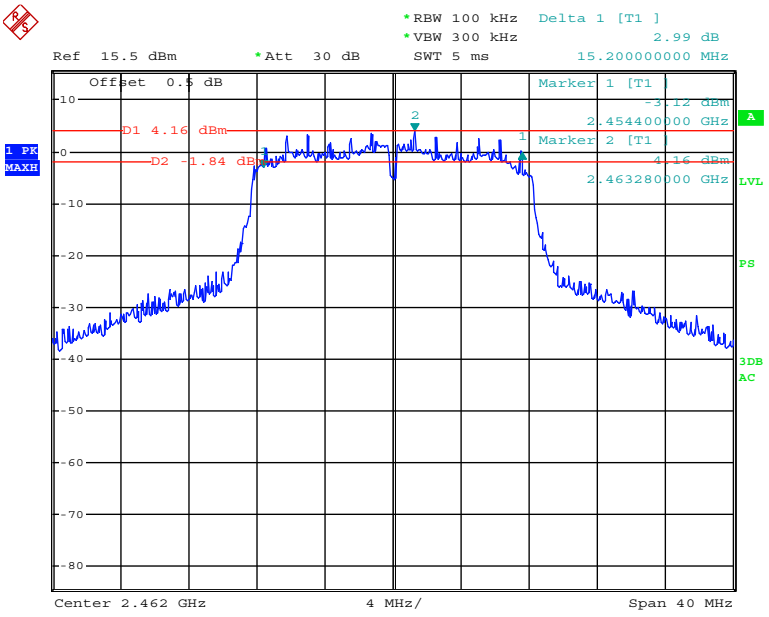
802.11g Middle Channel



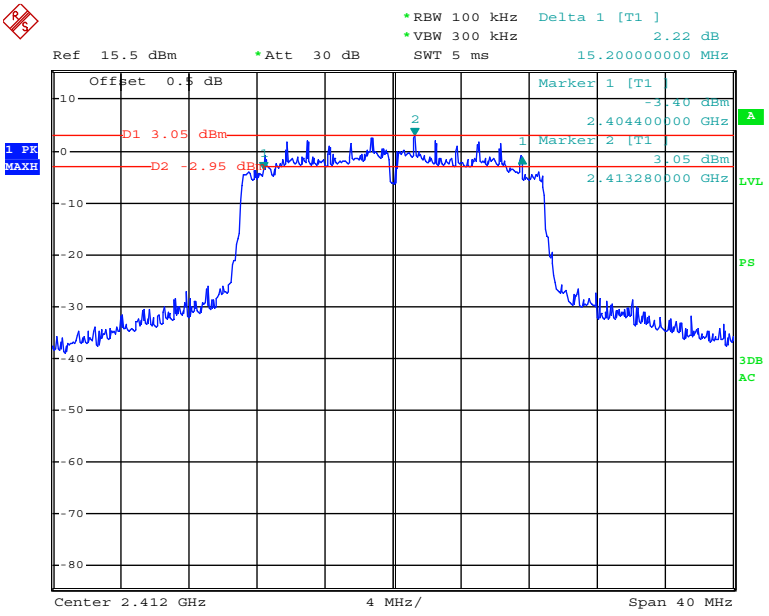
Date: 31.MAR.2017 18:43:03

802.11g High Channel



Date: 31.MAR.2017 18:44:39

802.11n ht20 Low Channel



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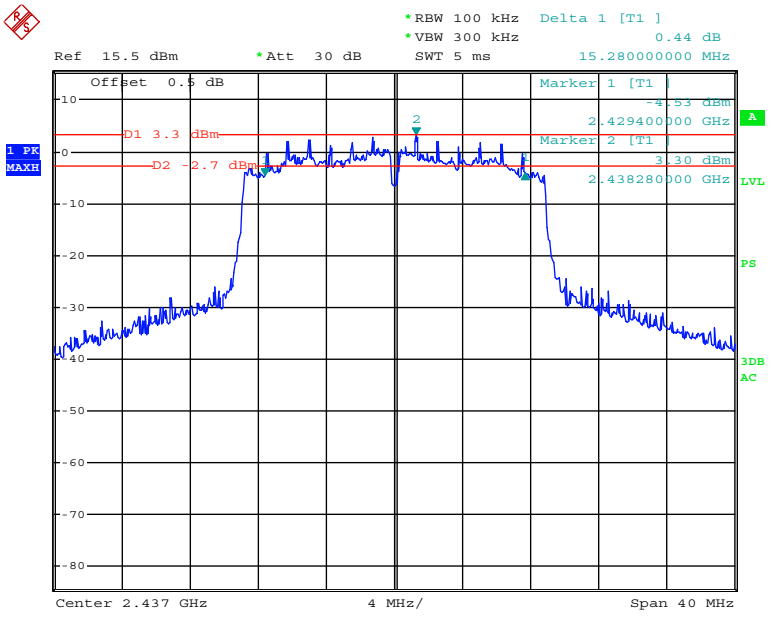
802.11n ht20 Middle Channel



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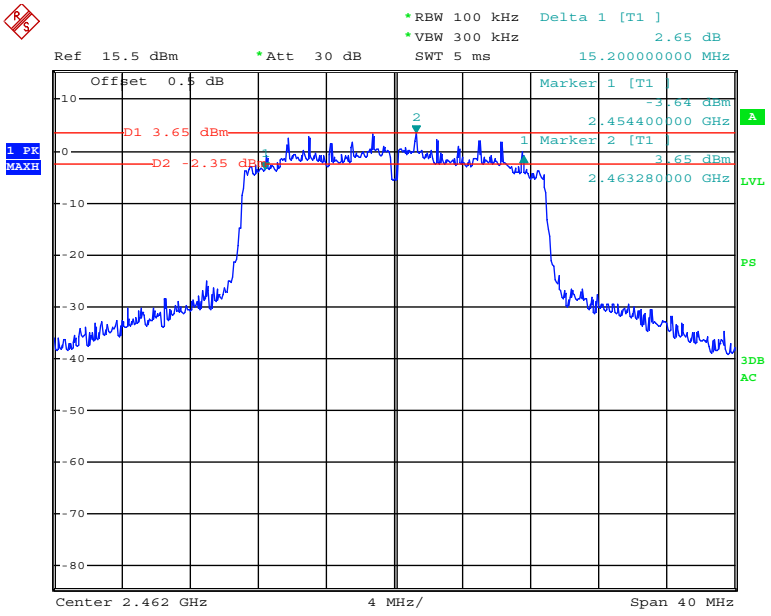
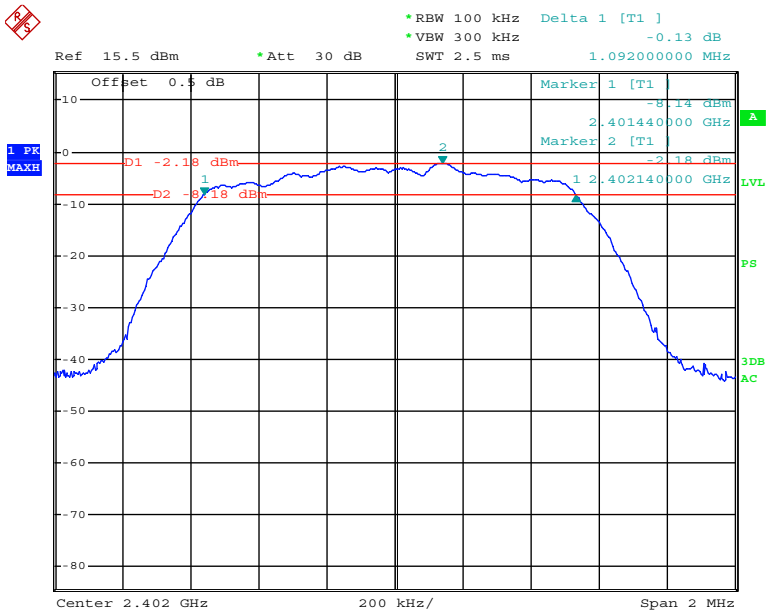
802.11n ht20 High Channel



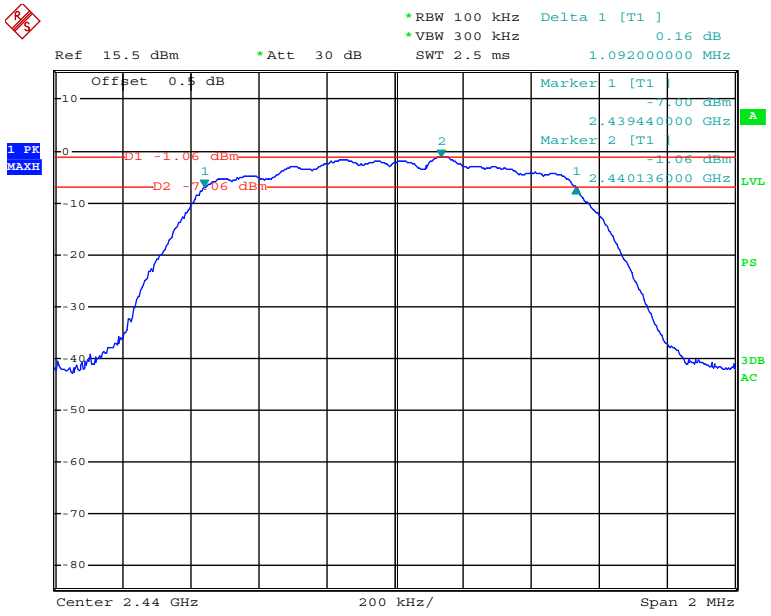
Date: 31.MAR.2017 18:50:25

BLE Low Channel



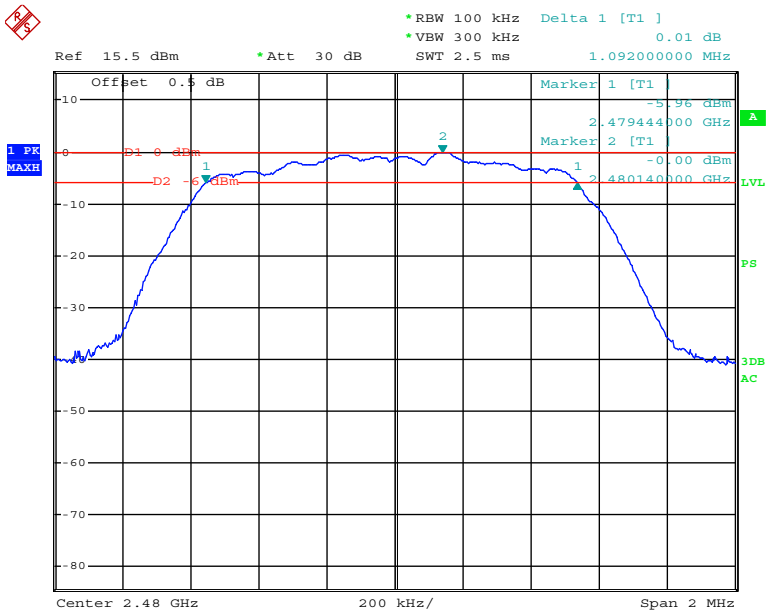
Date: 1.APR.2017 14:24:00

BLE Middle Channel



Date: 1.APR.2017 14:25:35

BLE High Channel



Date: 1.APR.2017 14:26:40

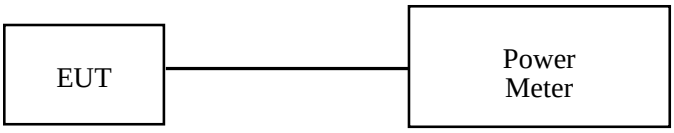
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

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
   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
Agilent	Wideband Power Sensor	N1921A	MY54170074	2016-01-03	2017-01-03
Agilent	P-Series Power Meter	N1912A	MY5000798	2016-01-03	2017-01-03
N/A	RF Cable	N/A	N/A	Each Time	/

*** Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	28.5 °C
Relative Humidity:	33%
ATM Pressure:	101.3 kPa

** The testing was performed by Lorin Bian on 2017-04-01.*

Test Mode: Transmitting

Test Result: Compliant. Please refer to the following table.

Test mode	Channel	Frequency	Max Peak Conducted Output Power	Max Conducted Average Output Power	Limit
		(MHz)	(dBm)	(dBm)	(dBm)
802.11b	Low	2412	16.86	13.49	30
	Middle	2437	16.76	13.54	30
	High	2462	16.95	14.23	30
802.11g	Low	2412	22.11	10.99	30
	Middle	2437	22.43	10.95	30
	High	2462	22.25	10.91	30
802.11n20	Low	2412	20.94	9.79	30
	Middle	2437	21.06	9.55	30
	High	2462	21.35	9.88	30
BLE	Low	2402	1.46	/	30
	Middle	2440	2.65	/	30
	High	2480	3.63	/	30

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	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
N/A	RF Cable	N/A	N/A	Each Time	/

*** Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

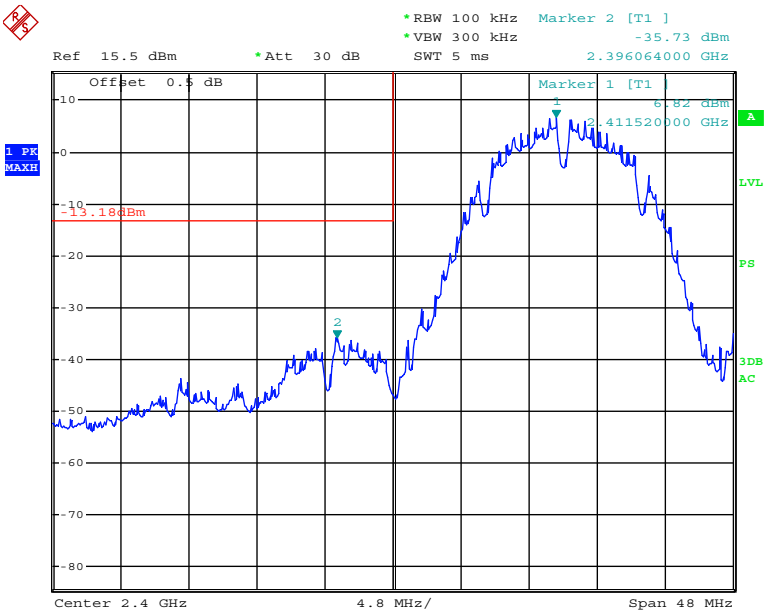
Temperature:	26.1~28.5 °C
Relative Humidity:	33~34%
ATM Pressure:	101.3~101.5 kPa

** The testing was performed by Lorin Bian from 2017-03-31 to 2017-04-01.*

Test mode: Transmitting

Test Result: Compliant. Please refer to following plots.

802.11b: Band Edge, Left Side



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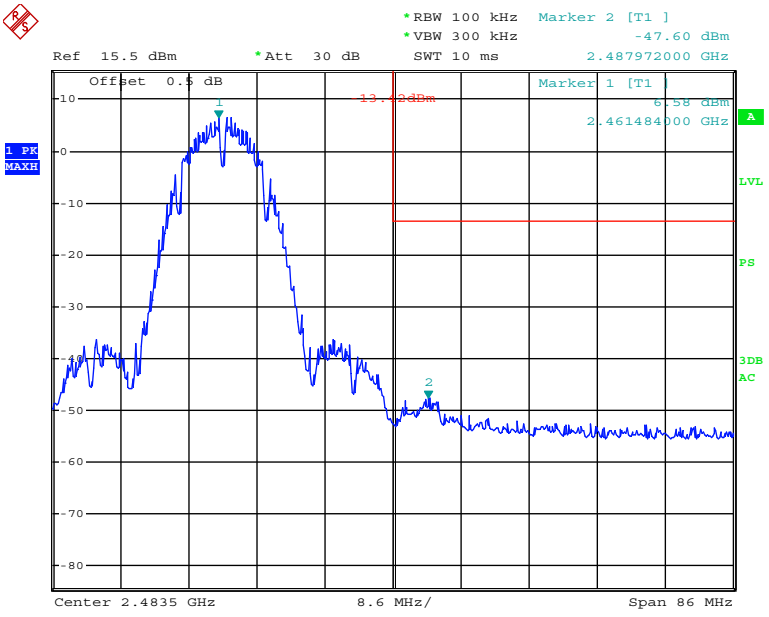
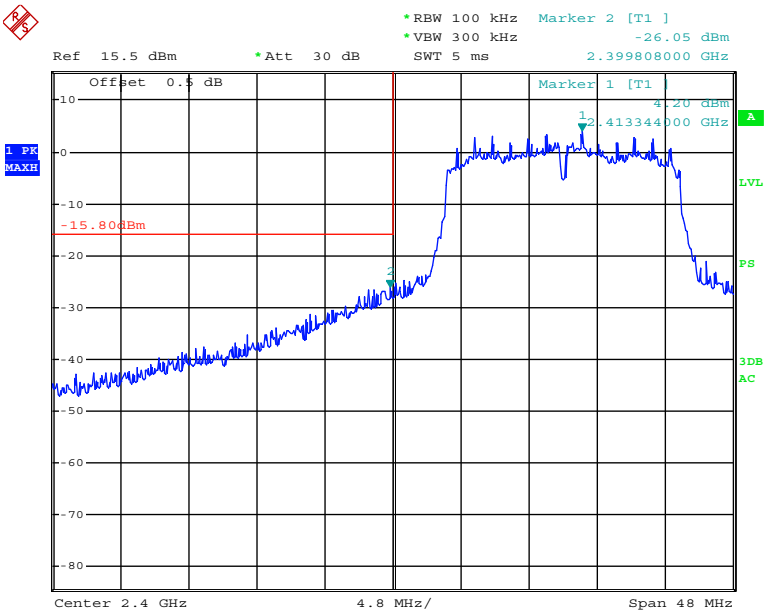
802.11b: Band Edge, Right Side



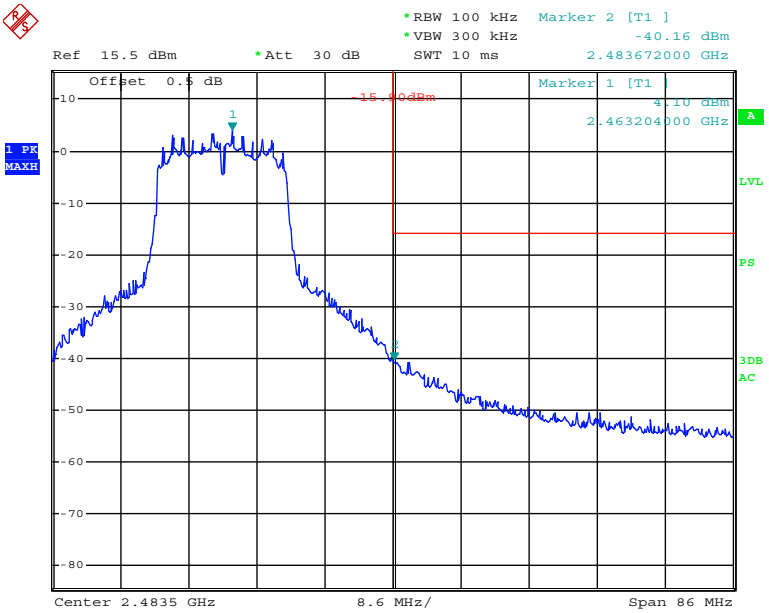
Date: 31.MAR.2017 18:40:06

802.11g: Band Edge, Left Side



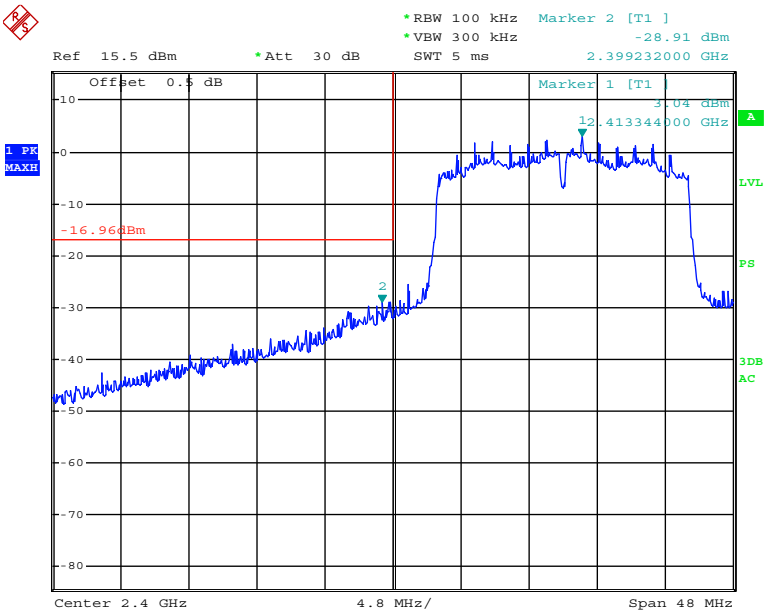
Date: 31.MAR.2017 18:42:09

802.11g: Band Edge, Right Side



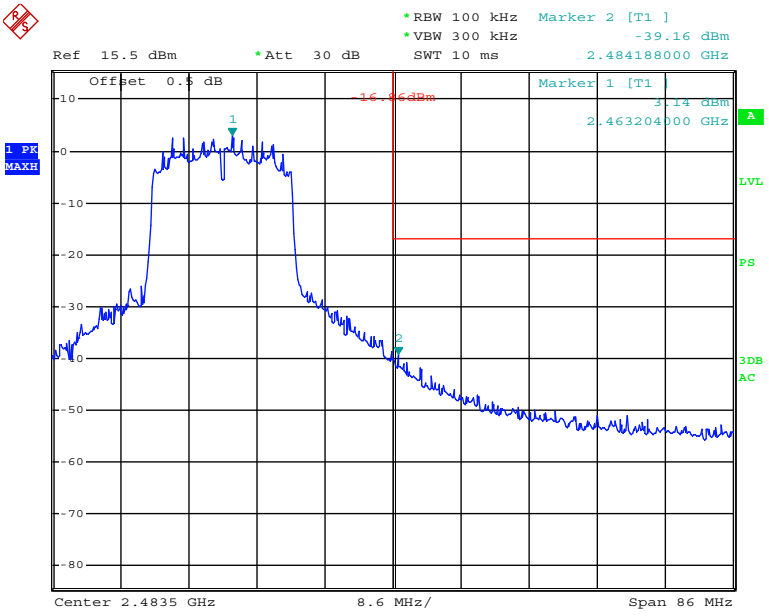
Date: 31.MAR.2017 18:45:45

802.11n ht20 Band Edge, Left Side



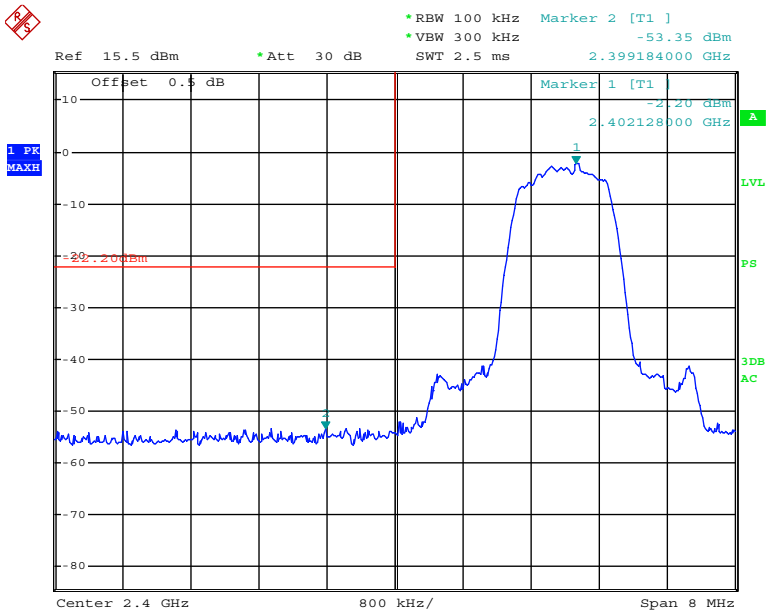
Date: 31.MAR.2017 18:47:45

802.11n ht20 Band Edge, Right Side



Date: 31.MAR.2017 18:51:21

BLE Band Edge， Left Side



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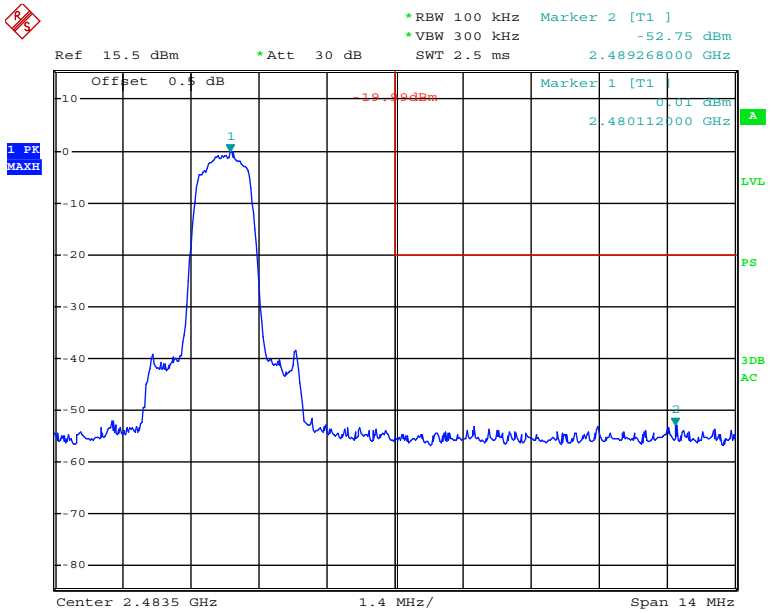
BLE Band Edge, Right Side



Date: 1.APR.2017 14:27:20

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

a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span to 1.5 times the DTS bandwidth.
c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
d) Set the VBW ≥ 3×RBW.
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.
j) 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	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
N/A	RF Cable	N/A	N/A	Each Time	/

*** Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	26.1~28.5 °C
Relative Humidity:	33~34%
ATM Pressure:	101.3~101.5 kPa

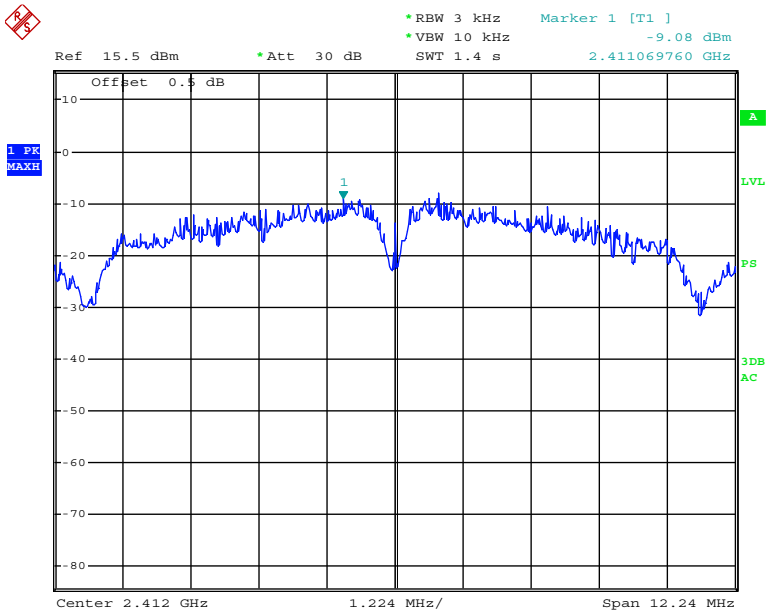
** The testing was performed by Lorin Bian from 2017-03-31 to 2017-04-01.*

Test Mode: Transmitting

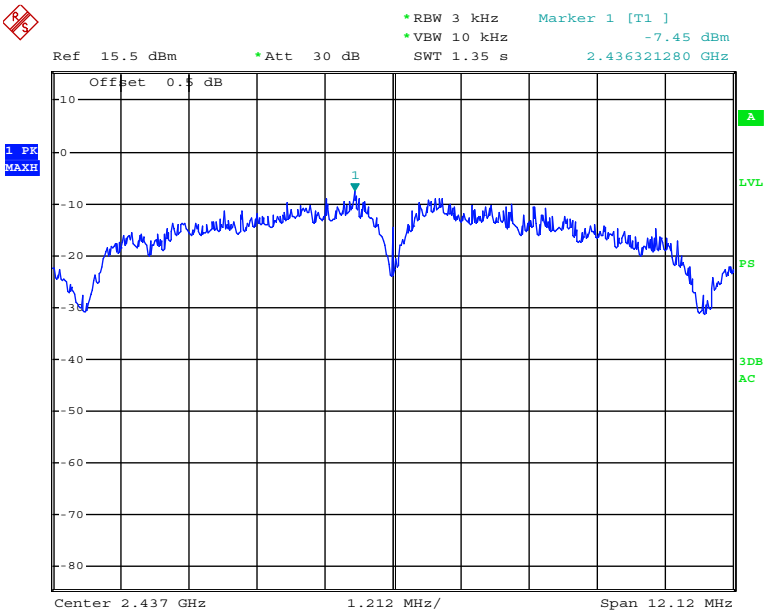
Test Result: Compliant. Please refer to the following table and plots

Test mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	Low	2412	-9.08	≤8
	Middle	2437	-7.45	≤8
	High	2462	-7.46	≤8
802.11g	Low	2412	-10.24	≤8
	Middle	2437	-10.12	≤8
	High	2462	-9.44	≤8
802.11n20	Low	2412	-11.21	≤8
	Middle	2437	-11.55	≤8
	High	2462	-10.99	≤8
BLE	Low	2402	-16.8	≤8
	Middle	2440	-15.81	≤8
	High	2480	-14.69	≤8

Power Spectral Density, 802.11b Low Channel

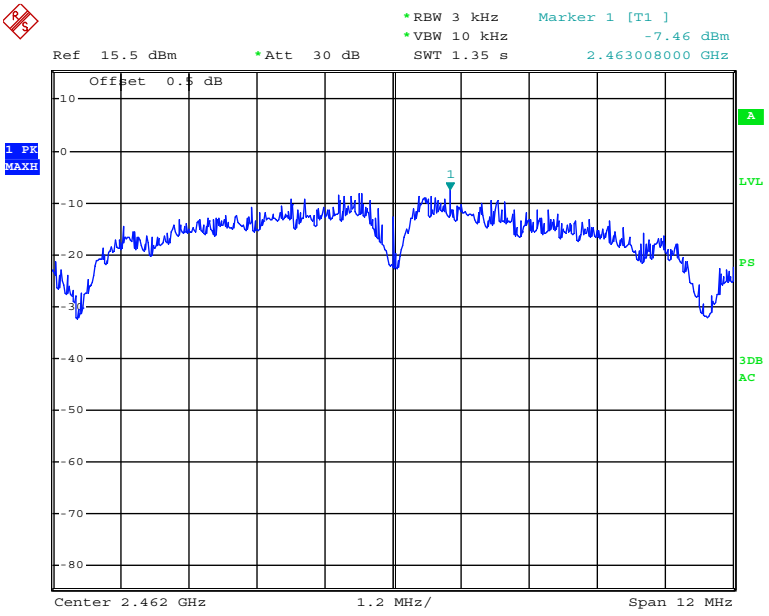


Power Spectral Density, 802.11b Middle Channel



Date: 31.MAR.2017 18:38:06

Power Spectral Density, 802.11b High Channel



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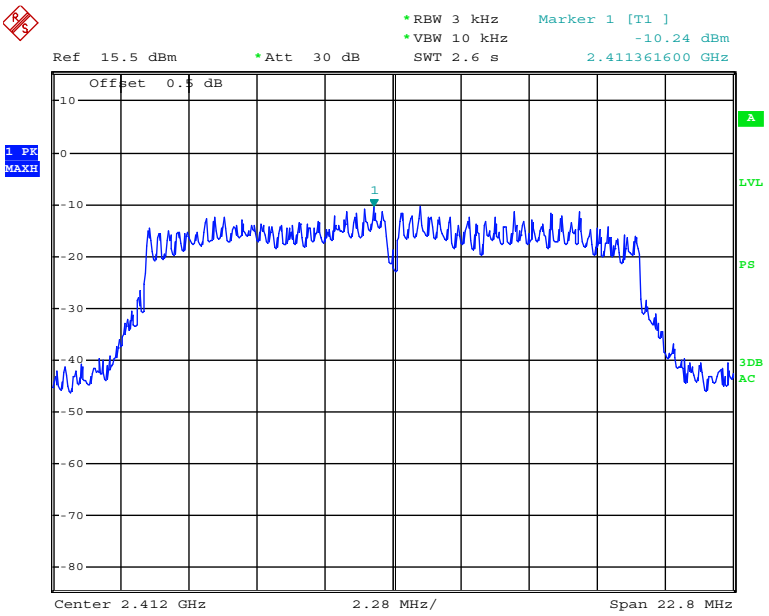
Power Spectral Density, 802.11g Low Channel



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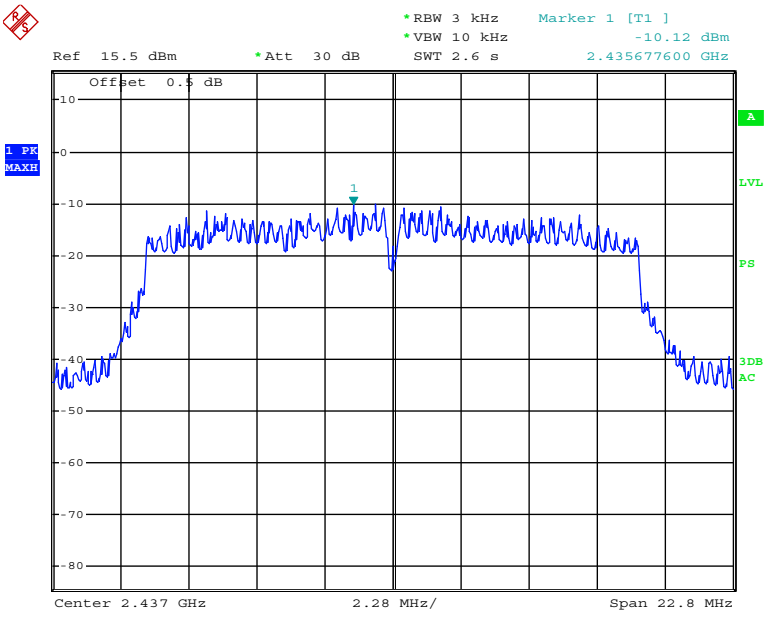
Power Spectral Density, 802.11g Middle Channel



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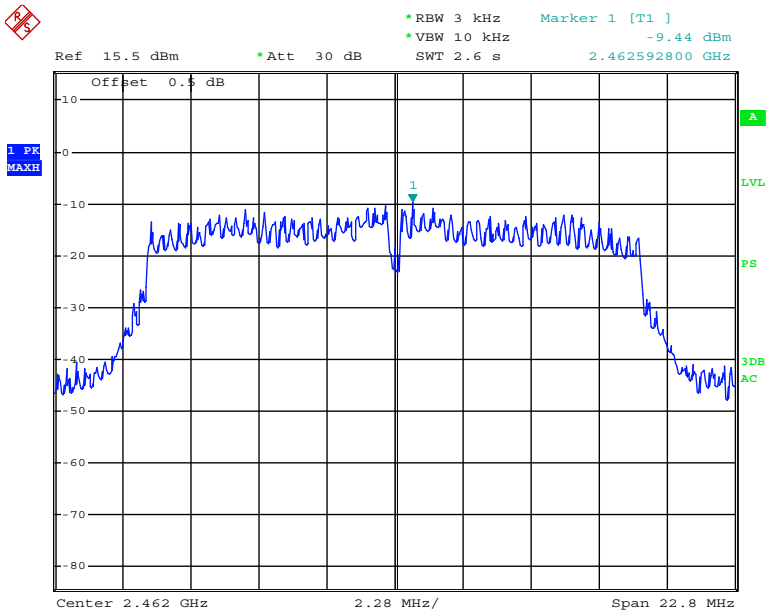
Power Spectral Density, 802.11g High Channel



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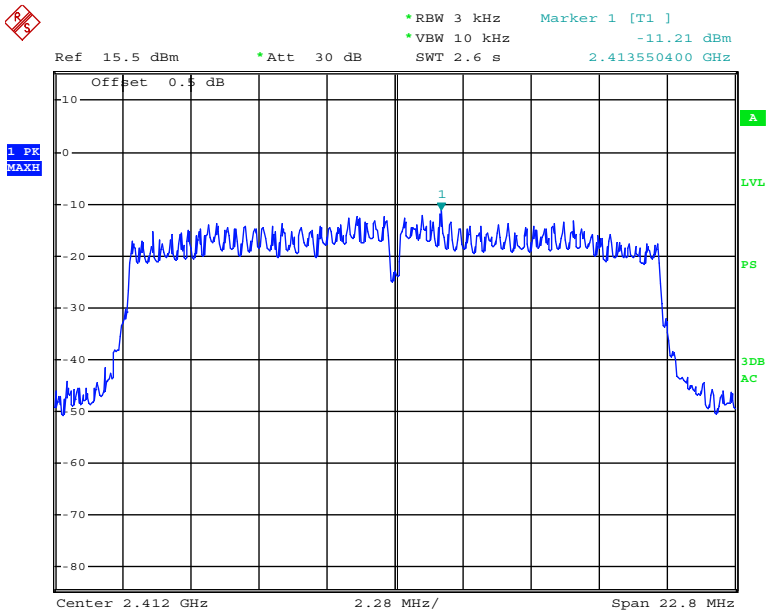
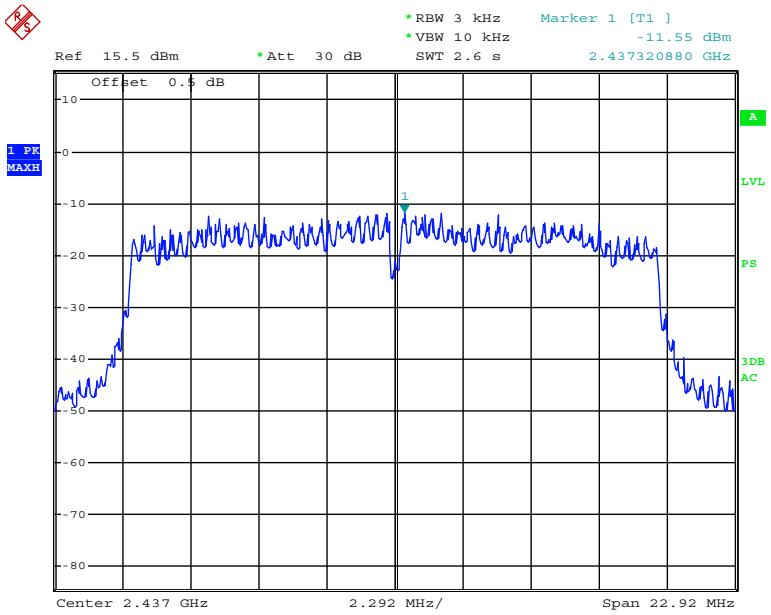
Power Spectral Density, 802.11n ht20 Low Channel



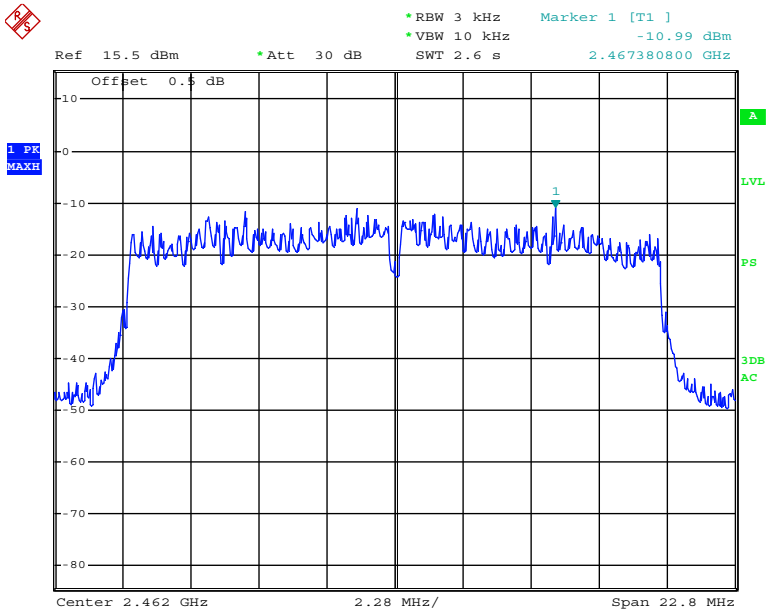
Date: 31.MAR.2017 18:47:31

Power Spectral Density, 802.11n ht20 Middle Channel



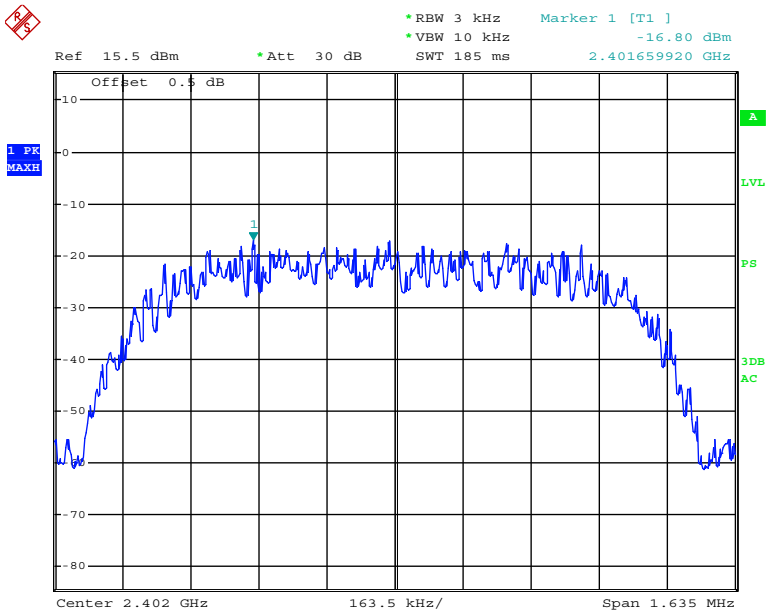
Date: 31.MAR.2017 18:49:29

Power Spectral Density, 802.11n ht20 High Channel



Date: 31.MAR.2017 18:51:07

Power Spectral Density, BLE Low Channel



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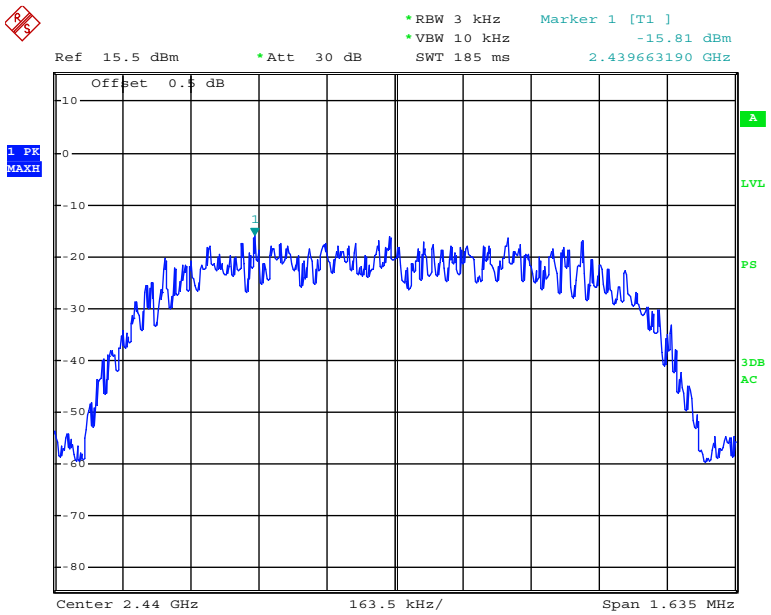
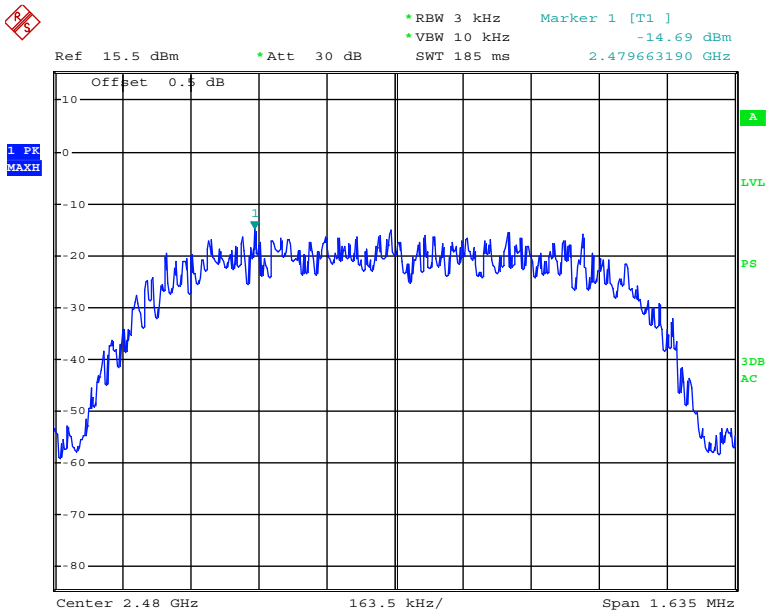
Power Spectral Density, BLE Middle Channel



Date: 1.APR.2017 14:26:03

Power Spectral Density, BLE High Channel



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