



FCC PART 15.247 TEST REPORT

For

Hytera Communications Corporation Limited

Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, 518057 China

FCC ID: YAMVM780

Report Type: **Product Name:** Original Report Body Worn Camera **Report Number:** RDG190606010-00B **Report Date:** 2019-07-25 Jerry Zhang Jerry Zhang **EMC** Manager **Reviewed By:** Bay Area Compliance Laboratories Corp. (Dongguan) **Test Laboratory:** No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

	EUT Name:	Body Worn Camera
	EUT Model:	VM780
N	Multiple Model:	DSJ-HYTH7A1
Operation Frequency:		2412-2462 MHz(802.11b/g/n ht20) 2422-2452 MHz(802.11n ht40) 2402-2480 MHz(BLE)
Maximun	Output Power (Conducted):	802.11b/g/n:21.86 dBm BLE: -0.1 dBm
Mo	odulation Type:	802.11b/g/n: DSSS,OFDM BLE: GFSK
	Model:	S010WU0500200
Adapter Information	Input:	AC 100-240V 50/60Hz 400mA
inioi mation	Output:	DC 5V 2000mA
Exter	External Dimension: 115mm(L)*63mm(W)*26mm(H)	
Rated Input Voltage:		DC 3.85V from battery or DC 5V charging from adapter
	Serial Number:	190606010
EUT	Received Date:	2019-06-12

Note: The series product, models DSJ-HYTH7A1 and VM780 are electrically identical, the difference between them please refer to the declaration letter for details. For marketing purpose, we selected VM780 for fully test.

Objective

This report is prepared on behalf of *Hytera Communications Corporation Limited* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communications Commission's rules

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

Related Submittal(s)/Grant(s)

FCC Part 22H, 24E, 27, 90 PCB submissions with FCC ID: YAMVM780.

FCC Part 15C DSS submissions with FCC ID: YAMVM780.

FCC Part 15C DXX submissions with FCC ID: YAMVM780.

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. And 558074 D01 15.247 Meas Guidance v05r02.

Report No.: RDG190606010-00B

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB,200M~1GHz: 5.92 dB,1G~6GHz: 4.98 dB,
<u> </u>	6G~18GHz: 5.89 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Test Facility

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

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 897218, the FCC Designation No.: CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

For 2.4GHz band, total 11 channels are provided:

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 test with channel 1,6,11. For 802.11n ht40 modes were test with channel 3,6,9.

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.

EUT Exercise Software

The software "QRCT.exe" was used for testing, which was provided by manufacturer. The maximum power was configured as below table, that provided by the manufacturer:

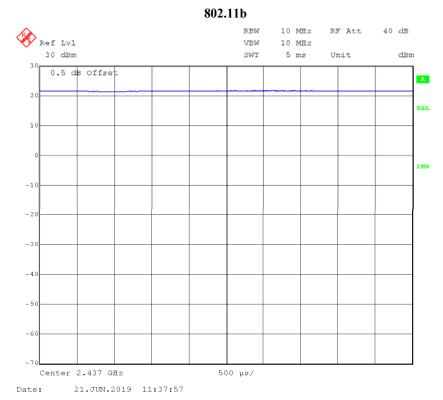
Mode	Channel	Frequency (MHz)	Data rate	Power level Setting
	Low	2412	1 Mbps	14
802.11b	Middle	2437	1 Mbps	14
	High	2462	1 Mbps	14
	Low	2412	6 Mbps	11
802.11g	Middle	2437	6 Mbps	12
	High	2462	6 Mbps	13
902 11	Low	2412	MCS0	10
802.11n ht20	Middle	2437	MCS0	12
11120	High	2462	MCS0	11
002.11	Low	2422	MCS0	11
802.11n ht 40	Middle	2437	MCS0	11
111.40	High	2452	MCS0	12

Bluetooth LE mode was configured by the system default setting

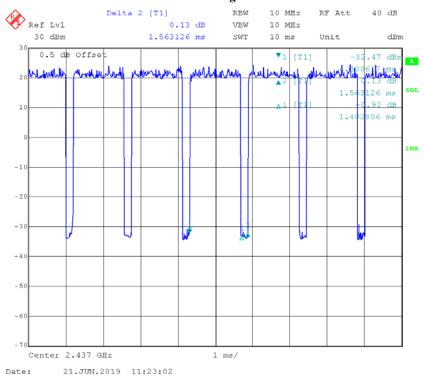
The maximum duty cycle as following table:

Test mode	T _{on} (ms)	T _{on+off} (ms)	Duty Cycle (%)
802.11b	100	100	100
802.11g	1.403	1.563	89.76
802.11n ht20	1.323	1.483	89.21
802.11n ht40	0.661	0.842	78.50
BLE	0.441	0.641	68.80

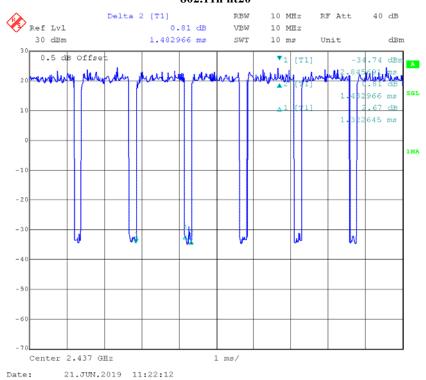


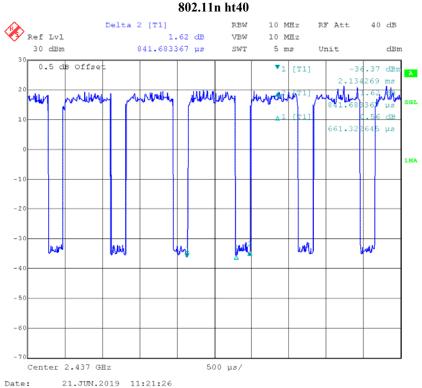


802.11g

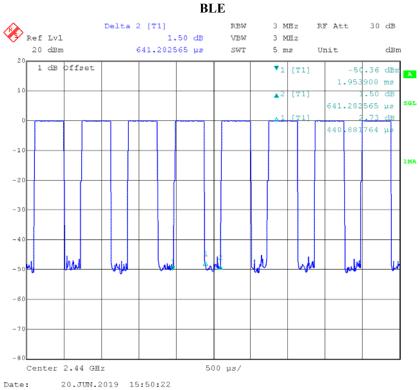












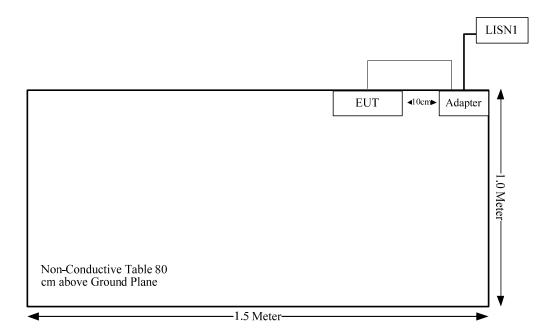
Equipment Modifications

No modification was made to the EUT.

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From	То
USB Cable	No	No	1.1	Adapter	EUT

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
§15.247 (i) & §1.1310 & §2.1093	RF Exposure	Compliance
FCC §15.203,	Antenna Requirement	Compliance
FCC §15.207 (a);	AC Line Conducted Emissions	Compliance
FCC §15.205, §15.209, §15.247(d);	Spurious Emissions	Compliance
FCC §15.247 (a)(2);	6 dB Bandwidth	Compliance
FCC §15.247(b)(3);	Maximum Conducted Output Power	Compliance
FCC §15.247(d);	100 kHz Bandwidth of Frequency Band Edge	Compliance
FCC §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.

Report No.: RDG190606010-00B

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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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

For BLE:

The max conducted power including tune-up tolerance is 0 dBm (1.0 mW). [(max. power of channel, mW)/(min. test separation distance, mm)][$\sqrt{f(GHz)}$] =1.0/5*($\sqrt{2.480}$) = 0.3< 3.0

Result: Compliance. The stand-alone SAR evaluation is not necessary.

For 802.11b/g/n

Result: Compliance. Please refer to the SAR report: RDG190606010-20A.

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.
- c. 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, fulfill the requirement of this section. Please refer to below information and the EUT photos:

Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range
FPC	50	0 dBi/2.4~2.5GHz

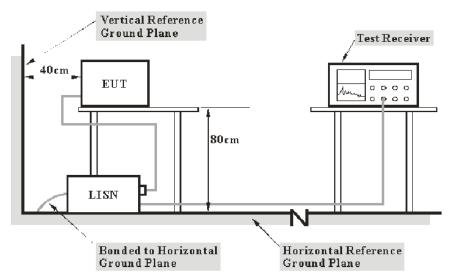
Result: Compliance.

FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207(a).

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 the main lisn with 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 limit. The equation for margin calculation is as follows:

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-01	2018-09-05	2019-09-05
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
R&S	Two-line V-network	ENV 216	101614	2018-12-10	2019-12-10
R&S	EMI Test Receiver	ESPI	100120	2019-05-09	2020-05-09

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

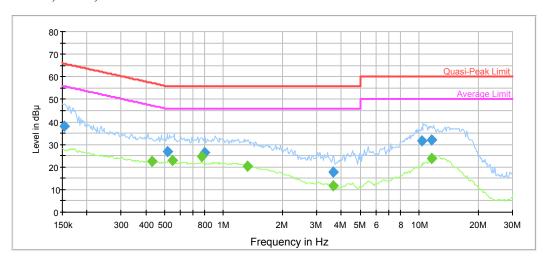
Test Data

Environmental Conditions

Temperature:	28.0 °C
Relative Humidity:	52 %
ATM Pressure:	100.6 kPa
Tester:	Lily Xie
Test Date:	2019-06-22

Test Mode: Transmitting (Wi-Fi mode 802.11b middle channel was the worst)

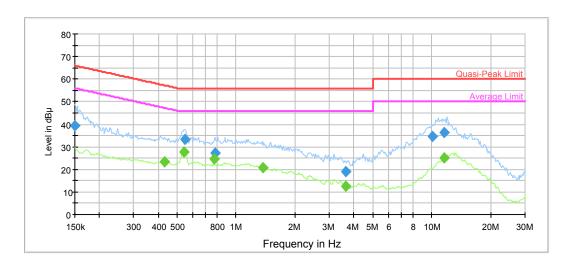
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.153015	37.9	9.000	L1	11.1	28.0	65.9
0.515160	27.0	9.000	L1	9.9	29.0	56.0
0.798146	26.5	9.000	L1	9.8	29.5	56.0
3.621856	17.7	9.000	L1	9.8	38.3	56.0
10.296163	31.5	9.000	L1	9.8	28.5	60.0
11.601974	31.9	9.000	L1	9.8	28.1	60.0

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.430682	22.3	9.000	L1	9.9	24.9	47.2
0.546852	23.0	9.000	L1	9.9	23.0	46.0
0.774673	24.5	9.000	L1	9.8	21.5	46.0
1.325783	20.5	9.000	L1	9.8	25.5	46.0
3.621856	11.8	9.000	L1	9.8	34.2	46.0
11.601974	23.9	9.000	L1	9.8	26.1	50.0

AC120 V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	39.2	9.000	N	11.2	26.8	66.0
0.546852	33.1	9.000	N	9.8	22.9	56.0
0.782419	27.3	9.000	N	9.8	28.7	56.0
3.621856	19.2	9.000	N	9.8	36.8	56.0
10.093288	34.6	9.000	N	9.8	25.4	60.0
11.601974	36.5	9.000	N	9.8	23.5	60.0

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.430682	23.1	9.000	N	9.9	24.1	47.2
0.541438	27.8	9.000	N	9.8	18.2	46.0
0.774673	24.5	9.000	N	9.8	21.5	46.0
1.365955	20.7	9.000	N	9.8	25.3	46.0
3.621856	12.6	9.000	N	9.8	33.4	46.0
11.601974	25.3	9.000	N	9.8	24.7	50.0

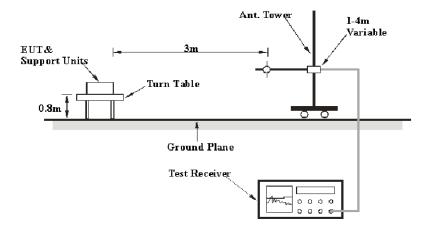
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

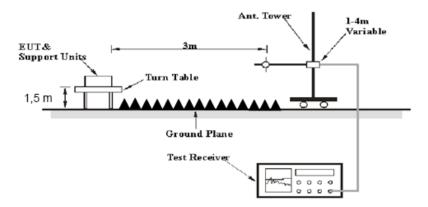
FCC §15.247 (d); §15.209; §15.205

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission below 1GHz tests were performed in the 3 meters chamber A, above 1GHz tests were performed in the 3 meters chamber A, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The spacing between the peripherals was 10 cm.

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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:

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

1GHz-25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
	<98%	1MHz	1/T

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

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 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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESR3	102453	2018-06-26	2019-06-26
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2019-05-06	2020-05-06
HP	Amplifier	8447D	2727A05902	2018-09-05	2019-09-05
R&S	Spectrum Analyzer	FSP 38	100478	2019-05-09	2020-05-09
TDK RF	Horn Antenna	HRN-0118	130 084	2018-10-12	2021-10-12
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2016-11-18	2019-11-18
MICRO-COAX	Coaxial Cable	UFA147-1-2362- 100100	64639 231029-001	2019-02-24	2020-02-24
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2018-09-05	2019-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2019-06-27	2020-06-27
E-Microwave	Band-stop Filters	OBSF-2400-2483.5-S	OE01601525	2019-06-16	2020-06-16
Micro-tronics	High Pass Filter	HPM50111	S/N-G217	2019-06-16	2020-06-16

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

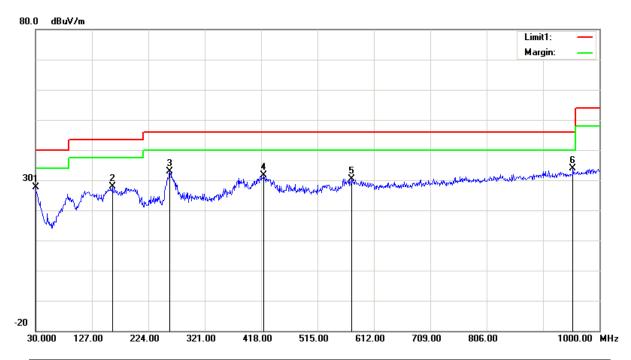
Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	28 °C	25.6~27.7°C
Relative Humidity:	45%	35~50 %
ATM Pressure:	100.1 kPa	100.1 kPa
Tester:	Tyler Pan	Tyler Pan
Test Date:	2019-06-17	2019-06-20

Test Result: Compliance, please Refer to the following data

Test Mode: Transmitting

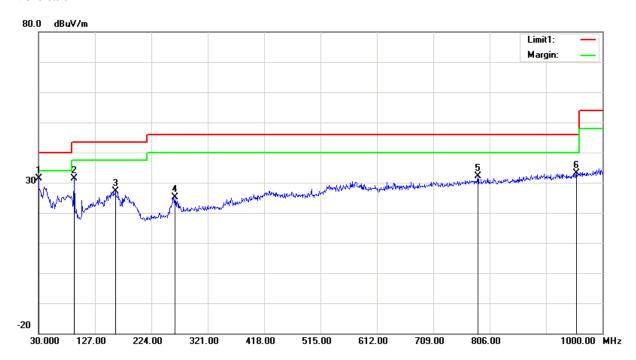
1) 30MHz-1GHz(802.11b mode low channel was the worst)

Horizontal:



Frequency	Reading	Detector	Corrected	Result	Limit	Margin
(MHz)	(dBµV)		(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
30.0000	25.88	peak	1.72	27.60	40.00	12.40
161.9200	34.02	peak	-6.06	27.96	43.50	15.54
260.8600	37.98	peak	-5.11	32.87	46.00	13.13
422.8500	33.12	peak	-1.48	31.64	46.00	14.36
574.1700	29.40	peak	1.07	30.47	46.00	15.53
954.4100	33.13	peak	0.82	33.95	46.00	12.05

Vertical:



Frequency	Reading	Detector	Corrected	Result	Limit	Margin
(MHz)	(dBµV)		(dB/m)	(dBµV/m)	(dBµV/m)	(dB)
30.0000	29.70	peak	1.72	31.42	40.00	8.58
91.1100	42.44	peak	-11.09	31.35	43.50	12.15
161.9200	33.08	peak	-6.06	27.02	43.50	16.48
264.7400	29.66	peak	-4.55	25.11	46.00	20.89
785.6300	27.63	peak	4.40	32.03	46.00	13.97
955.3800	32.21	peak	0.84	33.05	46.00	12.95

2) 1-25GHz: 802.11b Mode:

	Receiver		Rx Antenna		Cable	Amplifier	Corrected			
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	loss (dB)	Gain (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
	Low Channel: 2412 MHz									
2412.00	72.86	PK	Н	24.84	3.35	0.00	101.05	N/A	N/A	
2412.00	68.62	AV	Н	24.84	3.35	0.00	96.81	N/A	N/A	
2412.00	72.51	PK	V	24.84	3.35	0.00	100.70	N/A	N/A	
2412.00	68.37	AV	V	24.84	3.35	0.00	96.56	N/A	N/A	
2390.00	25.77	PK	Н	24.80	3.33	0.00	53.90	74.00	20.10	
2390.00	15.96	AV	Н	24.80	3.33	0.00	44.09	54.00	9.91	
4824.00	38.89	PK	Н	29.75	4.58	27.41	45.81	74.00	28.19	
4824.00	26.53	AV	Н	29.75	4.58	27.41	33.45	54.00	20.55	
7236.00	38.24	PK	Н	33.98	5.62	27.22	50.62	74.00	23.38	
7236.00	25.67	AV	Н	33.98	5.62	27.22	38.05	54.00	15.95	
			Mic	ldle Chann	el: 2437 l	MHz				
2437.00	72.61	PK	Н	24.89	3.36	0.00	100.86	N/A	N/A	
2437.00	68.46	AV	Н	24.89	3.36	0.00	96.71	N/A	N/A	
2437.00	72.34	PK	V	24.89	3.36	0.00	100.59	N/A	N/A	
2437.00	68.21	AV	V	24.89	3.36	0.00	96.46	N/A	N/A	
4874.00	38.99	PK	Н	29.85	4.57	27.54	45.87	74.00	28.13	
4874.00	26.54	AV	Н	29.85	4.57	27.54	33.42	54.00	20.58	
7311.00	38.34	PK	Н	34.10	5.68	27.28	50.84	74.00	23.16	
7311.00	25.64	AV	Н	34.10	5.68	27.28	38.14	54.00	15.86	
			Hi	gh Channe	1: 2462 M	ПНz				
2462.00	73.74	PK	Н	24.93	3.37	0.00	102.04	N/A	N/A	
2462.00	69.87	AV	Н	24.93	3.37	0.00	98.17	N/A	N/A	
2462.00	73.28	PK	V	24.93	3.37	0.00	101.58	N/A	N/A	
2462.00	68.10	AV	V	24.93	3.37	0.00	96.40	N/A	N/A	
2483.50	25.67	PK	Н	24.97	3.38	0.00	54.02	74.00	19.98	
2483.50	13.46	AV	Н	24.97	3.38	0.00	41.81	54.00	12.19	
4924.00	39.76	PK	Н	29.95	4.57	27.51	46.77	74.00	27.23	
4924.00	27.23	AV	Н	29.95	4.57	27.51	34.24	54.00	19.76	
7386.00	38.21	PK	Н	34.22	5.74	27.18	50.99	74.00	23.01	
7386.00	25.77	AV	Н	34.22	5.74	27.18	38.55	54.00	15.45	

802.11g Mode:

T	Receiver		Rx A	ntenna	Cable	Amplifier	Corrected	T **/	34		
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	loss (dB)	Gain (dB)	Amplitude (dBµV/m)	Limit (dBμV/m)	Margin (dB)		
	Low Channel: 2412 MHz										
2412.00	74.01	PK	Н	24.84	3.35	0.00	102.20	N/A	N/A		
2412.00	63.36	AV	Н	24.84	3.35	0.00	91.55	N/A	N/A		
2412.00	72.41	PK	V	24.84	3.35	0.00	100.60	N/A	N/A		
2412.00	62.50	AV	V	24.84	3.35	0.00	90.69	N/A	N/A		
2390.00	44.16	PK	Н	24.80	3.33	0.00	72.29	74.00	1.71		
2390.00	23.47	AV	Н	24.80	3.33	0.00	51.60	54.00	2.40		
4824.00	38.88	PK	Н	29.75	4.58	27.41	45.80	74.00	28.20		
4824.00	26.34	AV	Н	29.75	4.58	27.41	33.26	54.00	20.74		
7236.00	37.78	PK	Н	33.98	5.62	27.22	50.16	74.00	23.84		
7236.00	25.34	AV	Н	33.98	5.62	27.22	37.72	54.00	16.28		
			Mic	ldle Chann	el: 2437 l	MHz					
2437.00	72.13	PK	Н	24.89	3.36	0.00	100.38	N/A	N/A		
2437.00	62.36	AV	Н	24.89	3.36	0.00	90.61	N/A	N/A		
2437.00	71.47	PK	V	24.89	3.36	0.00	99.72	N/A	N/A		
2437.00	61.69	AV	V	24.89	3.36	0.00	89.94	N/A	N/A		
4874.00	38.99	PK	Н	29.85	4.57	27.54	45.87	74.00	28.13		
4874.00	26.46	AV	Н	29.85	4.57	27.54	33.34	54.00	20.66		
7311.00	38.10	PK	Н	34.10	5.68	27.28	50.60	74.00	23.40		
7311.00	25.66	AV	Н	34.10	5.68	27.28	38.16	54.00	15.84		
			Hi	gh Channe	1: 2462 N	ПНz					
2462.00	73.92	PK	Н	24.93	3.37	0.00	102.22	N/A	N/A		
2462.00	64.14	AV	Н	24.93	3.37	0.00	92.44	N/A	N/A		
2462.00	73.31	PK	V	24.93	3.37	0.00	101.61	N/A	N/A		
2462.00	63.70	AV	V	24.93	3.37	0.00	92.00	N/A	N/A		
2483.50	43.53	PK	Н	24.97	3.38	0.00	71.88	74.00	2.12		
2483.50	23.96	AV	Н	24.97	3.38	0.00	52.31	54.00	1.69		
4924.00	39.06	PK	Н	29.95	4.57	27.51	46.07	74.00	27.93		
4924.00	26.76	AV	Н	29.95	4.57	27.51	33.77	54.00	20.23		
7386.00	38.25	PK	Н	34.22	5.74	27.18	51.03	74.00	22.97		
7386.00	25.74	AV	Н	34.22	5.74	27.18	38.52	54.00	15.48		

802.11n ht20 Mode:

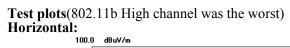
	Receiver		Rx A	ntenna	Cable	Amplifier	Corrected				
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	loss (dB)	Gain (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)		
	Low Channel: 2412 MHz										
2412.00	71.96	PK	Н	24.84	3.35	0.00	100.15	N/A	N/A		
2412.00	62.14	AV	Н	24.84	3.35	0.00	90.33	N/A	N/A		
2412.00	71.55	PK	V	24.84	3.35	0.00	99.74	N/A	N/A		
2412.00	63.87	AV	V	24.84	3.35	0.00	92.06	N/A	N/A		
2390.00	44.36	PK	Н	24.80	3.33	0.00	72.49	74.00	1.51		
2390.00	23.14	AV	Н	24.80	3.33	0.00	51.27	54.00	2.73		
4824.00	38.88	PK	Н	29.75	4.58	27.41	45.80	74.00	28.20		
4824.00	26.35	AV	Н	29.75	4.58	27.41	33.27	54.00	20.73		
7236.00	37.87	PK	Н	33.98	5.62	27.22	50.25	74.00	23.75		
7236.00	25.43	AV	Н	33.98	5.62	27.22	37.81	54.00	16.19		
			Mic	ldle Chann	el: 2437 l	MHz			•		
2437.00	71.99	PK	Н	24.89	3.36	0.00	100.24	N/A	N/A		
2437.00	62.47	AV	Н	24.89	3.36	0.00	90.72	N/A	N/A		
2437.00	71.63	PK	V	24.89	3.36	0.00	99.88	N/A	N/A		
2437.00	62.88	AV	V	24.89	3.36	0.00	91.13	N/A	N/A		
4874.00	38.96	PK	Н	29.85	4.57	27.54	45.84	74.00	28.16		
4874.00	26.58	AV	Н	29.85	4.57	27.54	33.46	54.00	20.54		
7311.00	38.36	PK	Н	34.10	5.68	27.28	50.86	74.00	23.14		
7311.00	25.80	AV	Н	34.10	5.68	27.28	38.30	54.00	15.70		
			Hi	gh Channe	1: 2462 M	lНz					
2462.00	71.87	PK	Н	24.93	3.37	0.00	100.17	N/A	N/A		
2462.00	62.23	AV	Н	24.93	3.37	0.00	90.53	N/A	N/A		
2462.00	71.17	PK	V	24.93	3.37	0.00	99.47	N/A	N/A		
2462.00	60.82	AV	V	24.93	3.37	0.00	89.12	N/A	N/A		
2483.50	44.05	PK	Н	24.97	3.38	0.00	72.40	74.00	1.60		
2483.50	23.12	AV	Н	24.97	3.38	0.00	51.47	54.00	2.53		
4924.00	39.11	PK	Н	29.95	4.57	27.51	46.12	74.00	27.88		
4924.00	26.54	AV	Н	29.95	4.57	27.51	33.55	54.00	20.45		
7386.00	37.80	PK	Н	34.22	5.74	27.18	50.58	74.00	23.42		
7386.00	25.41	AV	Н	34.22	5.74	27.18	38.19	54.00	15.81		

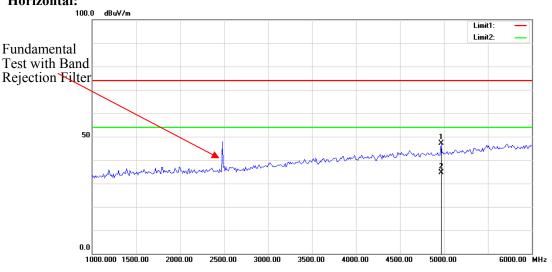
802.11n ht40 Mode:

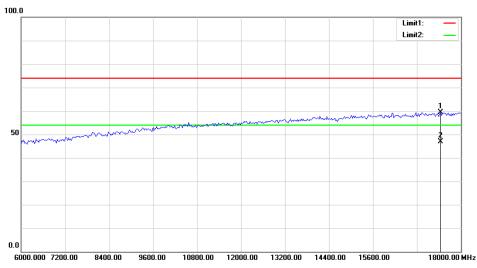
-	Receiver		Rx A	ntenna	Cable	Amplifier	Corrected	T	3.6	
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	loss (dB)	Gain (dB)	Amplitude (dBµV/m)	Limit (dBμV/m)	Margin (dB)	
	Low Channel: 2422 MHz									
2422.00	70.95	PK	Н	24.86	3.35	0.00	99.16	N/A	N/A	
2422.00	61.22	AV	Н	24.86	3.35	0.00	89.43	N/A	N/A	
2422.00	70.11	PK	V	24.86	3.35	0.00	98.32	N/A	N/A	
2422.00	60.36	AV	V	24.86	3.35	0.00	88.57	N/A	N/A	
2390.00	43.69	PK	Н	24.80	3.33	0.00	71.82	74.00	2.18	
2390.00	22.31	AV	Н	24.80	3.33	0.00	50.44	54.00	3.56	
4844.00	38.89	PK	Н	29.79	4.57	27.46	45.79	74.00	28.21	
4844.00	26.53	AV	Н	29.79	4.57	27.46	33.43	54.00	20.57	
7266.00	38.04	PK	Н	34.03	5.64	27.25	50.46	74.00	23.54	
7266.00	25.67	AV	Н	34.03	5.64	27.25	38.09	54.00	15.91	
			Mic	ldle Chann	el: 2437 l	MHz				
2437.00	70.36	PK	Н	24.89	3.36	0.00	98.61	N/A	N/A	
2437.00	61.33	AV	Н	24.89	3.36	0.00	89.58	N/A	N/A	
2437.00	70.12	PK	V	24.89	3.36	0.00	98.37	N/A	N/A	
2437.00	60.74	AV	V	24.89	3.36	0.00	88.99	N/A	N/A	
4874.00	39.10	PK	Н	29.85	4.57	27.54	45.98	74.00	28.02	
4874.00	26.54	AV	Н	29.85	4.57	27.54	33.42	54.00	20.58	
7311.00	37.90	PK	Н	34.10	5.68	27.28	50.40	74.00	23.60	
7311.00	25.63	AV	Н	34.10	5.68	27.28	38.13	54.00	15.87	
			Hi	gh Channe	1: 2452 N	Mz .				
2452.00	71.21	PK	Н	24.91	3.37	0.00	99.49	N/A	N/A	
2452.00	60.69	AV	Н	24.91	3.37	0.00	88.97	N/A	N/A	
2452.00	70.55	PK	V	24.91	3.37	0.00	98.83	N/A	N/A	
2452.00	60.45	AV	V	24.91	3.37	0.00	88.73	N/A	N/A	
2483.50	43.25	PK	Н	24.97	3.38	0.00	71.60	74.00	2.40	
2483.50	22.14	AV	Н	24.97	3.38	0.00	50.49	54.00	3.51	
4904.00	38.76	PK	Н	29.91	4.56	27.58	45.65	74.00	28.35	
4904.00	26.32	AV	Н	29.91	4.56	27.58	33.21	54.00	20.79	
7356.00	37.77	PK	Н	34.17	5.72	27.22	50.44	74.00	23.56	
7356.00	25.32	AV	Н	34.17	5.72	27.22	37.99	54.00	16.01	

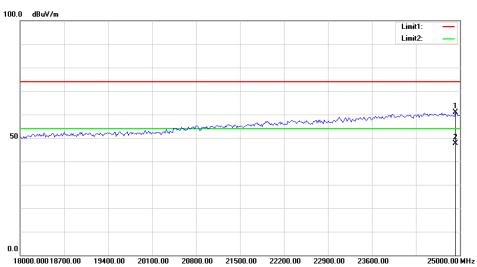
BLE Mode:

-	Receiver		Rx Antenna		Cable	Amplifier	Corrected	.		
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	
	Low Channel: 2402 MHz									
2402.00	58.29	PK	Н	24.82	3.34	0.00	86.45	N/A	N/A	
2402.00	57.35	AV	Н	24.82	3.34	0.00	85.51	N/A	N/A	
2402.00	56.77	PK	V	24.82	3.34	0.00	84.93	N/A	N/A	
2402.00	55.84	AV	V	24.82	3.34	0.00	84.00	N/A	N/A	
2390.00	25.34	PK	Н	24.80	3.33	0.00	53.47	74.00	20.53	
2390.00	12.57	AV	Н	24.80	3.33	0.00	40.70	54.00	13.30	
4804.00	39.23	PK	Н	29.71	4.58	27.36	46.16	74.00	27.84	
4804.00	26.67	AV	Н	29.71	4.58	27.36	33.60	54.00	20.40	
7206.00	37.45	PK	Н	33.93	5.59	27.19	49.78	74.00	24.22	
7206.00	25.10	AV	Н	33.93	5.59	27.19	37.43	54.00	16.57	
			M	iddle Chan	nel: 2440	MHz				
2440.00	59.70	PK	Н	24.89	3.36	0.00	87.95	N/A	N/A	
2440.00	58.93	AV	Н	24.89	3.36	0.00	87.18	N/A	N/A	
2440.00	57.80	PK	V	24.89	3.36	0.00	86.05	N/A	N/A	
2440.00	56.96	AV	V	24.89	3.36	0.00	85.21	N/A	N/A	
4880.00	39.65	PK	Н	29.86	4.56	27.55	46.52	74.00	27.48	
4880.00	27.25	AV	Н	29.86	4.56	27.55	34.12	54.00	19.88	
7320.00	38.24	PK	Н	34.11	5.69	27.26	50.78	74.00	23.22	
7320.00	25.86	AV	Н	34.11	5.69	27.26	38.40	54.00	15.60	
		_	I	Iigh Chanr	el: 2480 l	MHz	_			
2480.00	59.76	PK	Н	24.96	3.38	0.00	88.10	N/A	N/A	
2480.00	58.92	AV	Н	24.96	3.38	0.00	87.26	N/A	N/A	
2480.00	57.96	PK	V	24.96	3.38	0.00	86.30	N/A	N/A	
2480.00	57.03	AV	V	24.96	3.38	0.00	85.37	N/A	N/A	
2483.50	27.96	PK	Н	24.97	3.38	0.00	56.31	74.00	17.69	
2483.50	19.40	AV	Н	24.97	3.38	0.00	47.75	54.00	6.25	
4960.00	39.91	PK	Н	30.02	4.58	27.37	47.14	74.00	26.86	
4960.00	27.35	AV	Н	30.02	4.58	27.37	34.58	54.00	19.42	
7440.00	37.96	PK	Н	34.30	5.79	27.22	50.83	74.00	23.17	
7440.00	25.63	AV	Н	34.30	5.79	27.22	38.50	54.00	15.50	

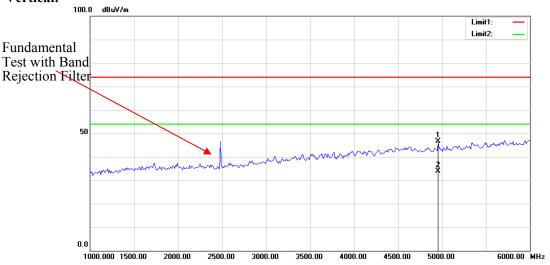


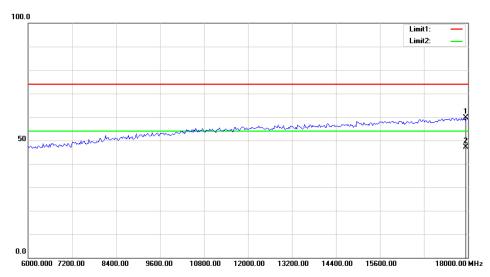


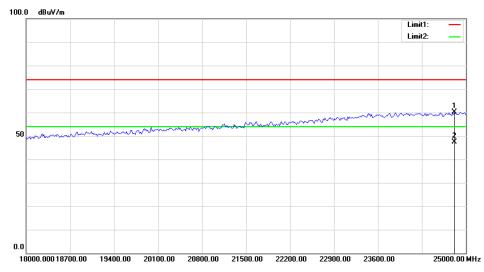












FCC §15.247(a) (2) - 6 dB EMISSION BANDWIDTH

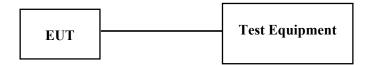
Applicable Standard

According to FCC §15.247(a) (2)

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) $\geq 3 \times RBW$.
- 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	Signal Analyzer	FSIQ26	831929/005	2018-08-03	2019-08-03
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	28.2 °C~28.4 °C
Relative Humidity:	61 %~66 %
ATM Pressure:	100.1 kPa~100.2 kPa
Tester:	Andy Huang
Test Date:	2019-06-20~2019-06-21

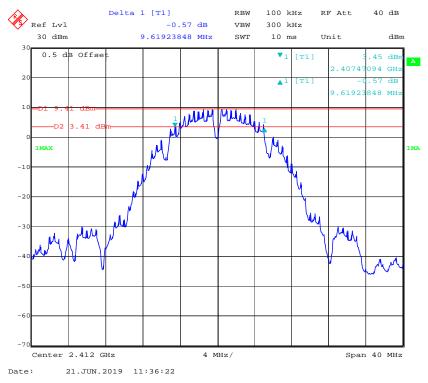
Test Mode: Transmitting

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

Test mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
	Low	2412	9.619	≥0.5
802.11b	Middle	2437	8.577	≥0.5
	High	2462	8.978	≥0.5
	Low	2412	16.353	≥0.5
802.11g	Middle	2437	16.433	≥0.5
	High	2462	16.433	≥0.5
	Low	2412	17.555	≥0.5
802.11n ht20	Middle	2437	17.475	≥0.5
	High	2462	17.475	≥0.5
	Low	2422	35.431	≥0.5
802.11n ht40	Middle	2437	35.752	≥0.5
	High	2452	35.591	≥0.5
	Low	2402	0.733	≥0.5
BLE	Middle	2440	0.729	≥0.5
	High	2480	0.741	≥0.5

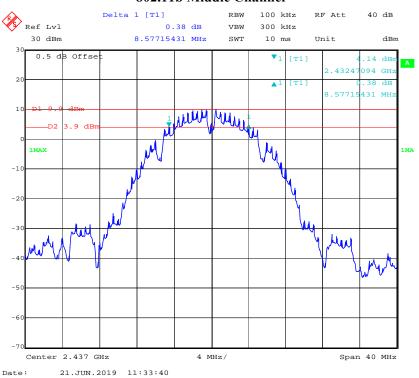
6 dB Bandwidth:

802.11b Low Channel

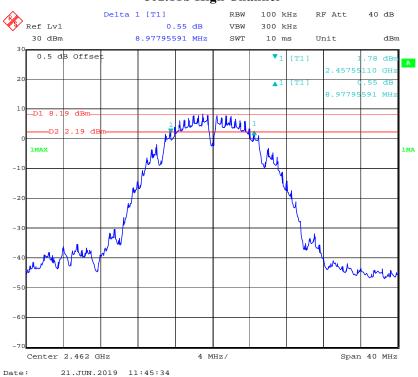


802.11b Middle Channel

Report No.: RDG190606010-00B

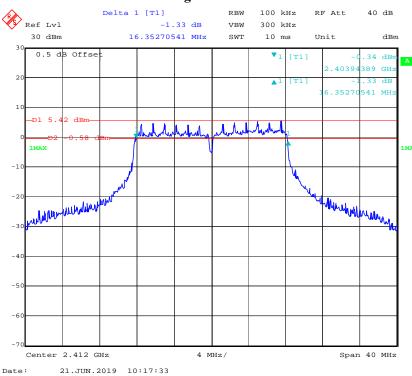


802.11b High Channel

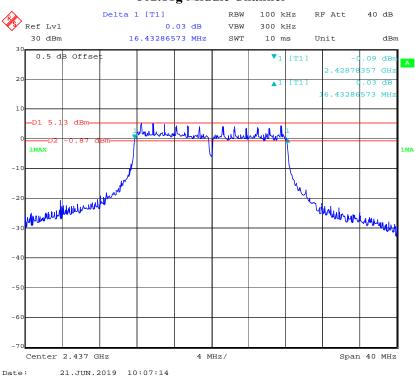


802.11g Low Channel

Report No.: RDG190606010-00B

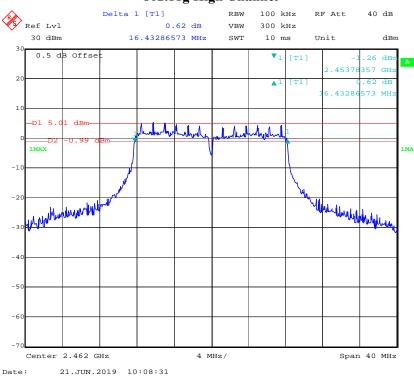


802.11g Middle Channel

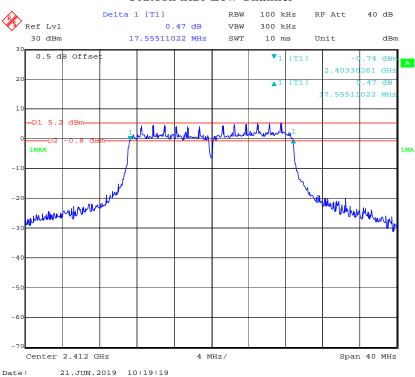


802.11g High Channel

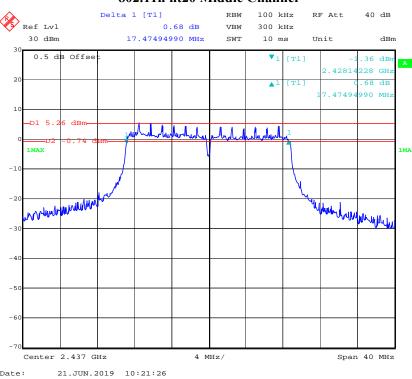
Report No.: RDG190606010-00B

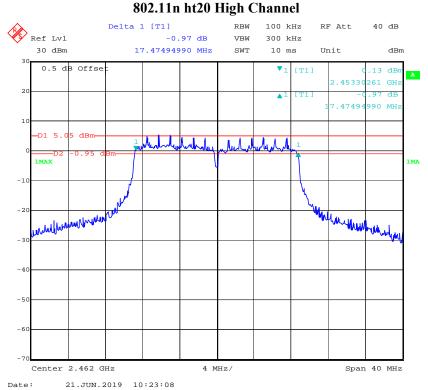


802.11n ht20 Low Channel



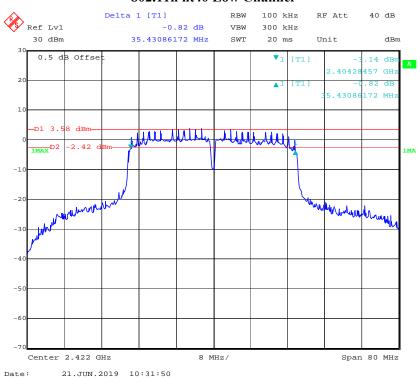
802.11n ht20 Middle Channel



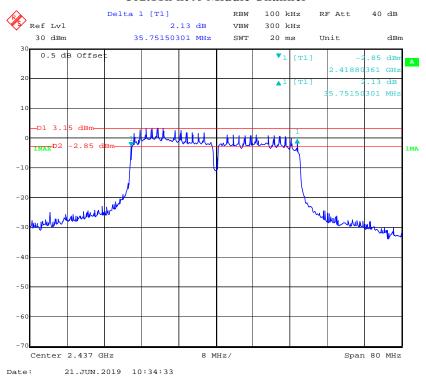


802.11n ht40 Low Channel

Report No.: RDG190606010-00B

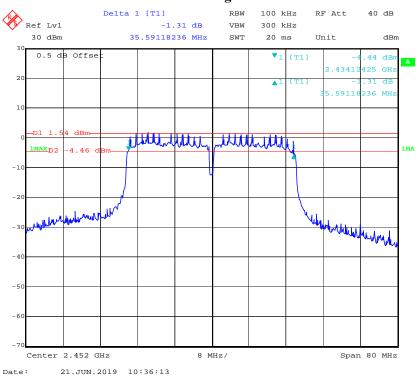


802.11n ht40 Middle Channel



802.11n ht40 High Channel

Report No.: RDG190606010-00B

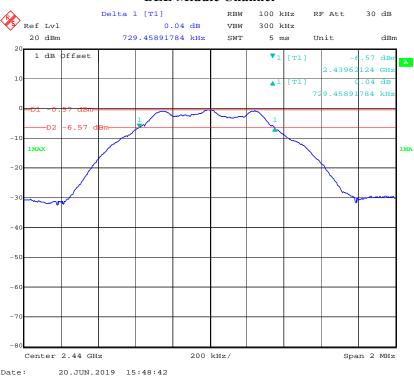


BLE Low Channel

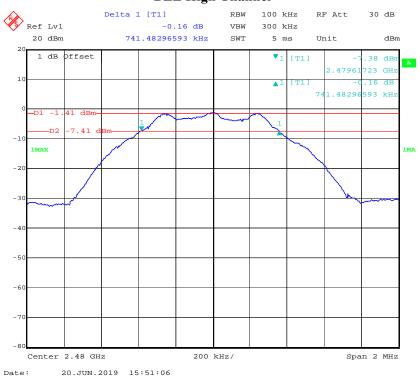


BLE Middle Channel

Report No.: RDG190606010-00B



BLE High Channel



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

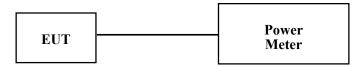
Report No.: RDG190606010-00B

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.
- 4. Set the power Meter to test Peak output power, record the result as peak power.
- 5. Set the power meter to test average output power, record the result as average power.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
Agilent	USB Wideband Power Sensor	U2022XA	MY5417006	2018-12-10	2019-12-10

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	28.2 °C~28.4 °C
Relative Humidity:	61 %~66 %
ATM Pressure:	100.1 kPa~100.2 kPa
Tester:	Andy Huang
Test Date:	2019-06-20~2019-06-21

Test Mode: Transmitting

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

Test mode	Channel	Frequency (MHz)	Max Peak Conducted Output Power (dBm)	Max Conducted Average Output Power (dBm)	Limit (dBm)
	Low	2412	21.39	18.92	30
802.11b	Middle	2437	20.77	17.94	30
	High	2462	20.02	17.46	30
	Low	2412	21.69	15.61	30
802.11g	Middle	2437	21.41	15.17	30
	High	2462	21.60	15.48	30
002.11	Low	2412	21.34	15.09	30
802.11n ht20	Middle	2437	21.18	14.75	30
	High	2462	21.03	14.16	30
002.11	Low	2422	21.86	15.42	30
802.11n ht40	Middle	2437	21.49	14.85	30
	High	2452	21.38	14.11	30
BLE	Low	2402	-0.47	/	30
	Middle	2440	-0.10	/	30
	High	2480	-0.96	/	30

Note: The data above was tested in conducted mode and the antenna gain is 0dBi.

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

Report No.: RDG190606010-00B

Applicable Standard

According to FCC§15.247(d):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	831929/005	2018-08-03	2019-08-03
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

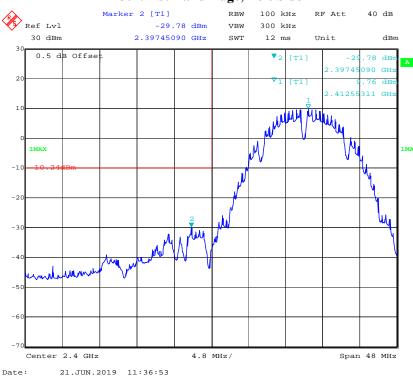
Test Data

Environmental Conditions

Temperature:	28.2 °C~28.4 °C
Relative Humidity:	61 %~66 %
ATM Pressure:	100.1 kPa~100.2 kPa
Tester:	Andy Huang
Test Date:	2019-06-20~2019-06-
	21

Test mode: Transmitting Test Result: Compliant. Please refer to following plots.

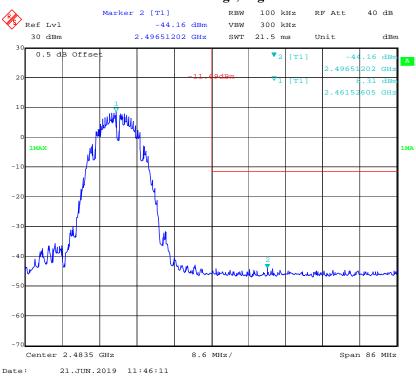
802.11b: Band Edge, Left Side



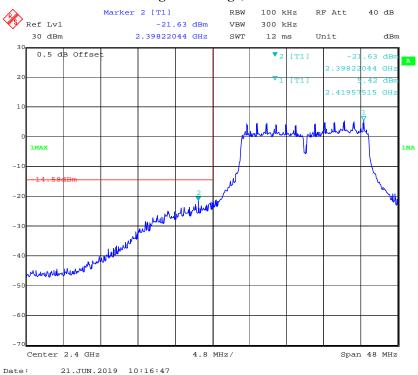
Report No.: RDG190606010-00B

802.11b: Band Edge, Right Side

Report No.: RDG190606010-00B

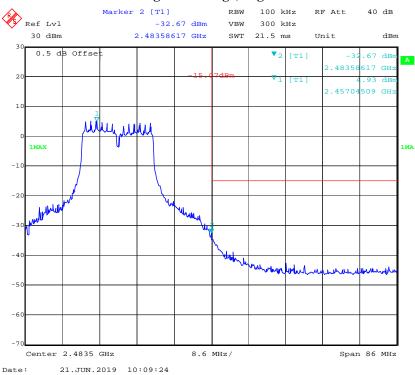


802.11g: Band Edge, Left Side

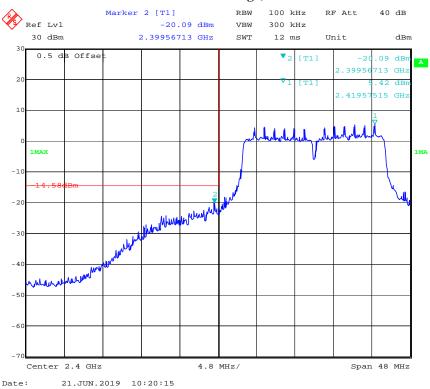


802.11g: Band Edge, Right Side

Report No.: RDG190606010-00B

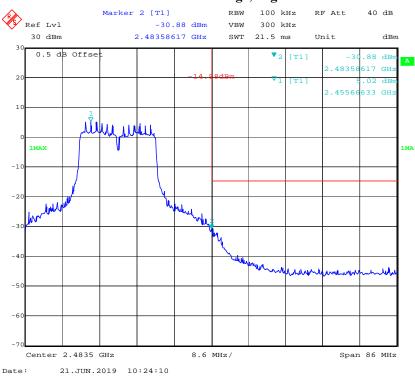


802.11n ht20 Band Edge, Left Side

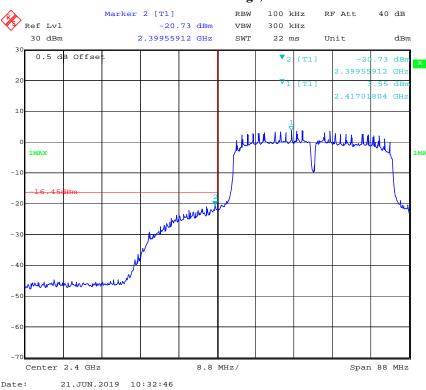


802.11n ht20 Band Edge, Right Side

Report No.: RDG190606010-00B

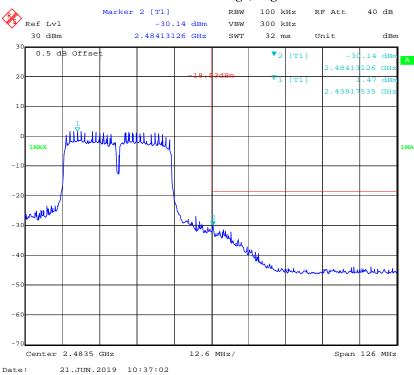


802.11n ht40 Band Edge, Left Side

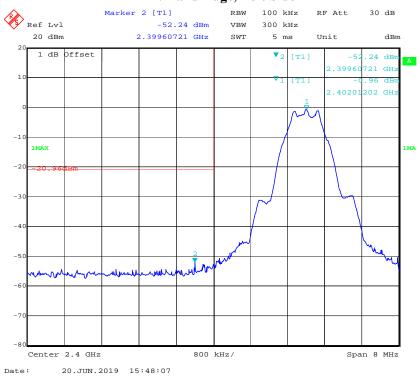


802.11n ht40 Band Edge, Right Side

Report No.: RDG190606010-00B

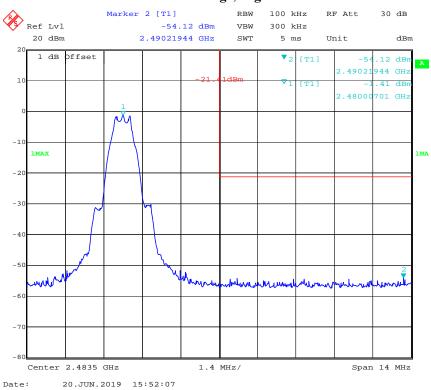


BLE: Band Edge, Left Side



BLE Band Edge, Right Side

Report No.: RDG190606010-00B



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.

Report No.: RDG190606010-00B

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set the RBW = 3 kHz, VBW = 10 kHz, Set the span to 1.5 times the DTS bandwidth.
- 4. Use the peak marker function to determine the maximum amplitude level.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2018-08-03	2019-08-03
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	28.2 °C~28.4 °C
Relative Humidity:	61 %~66 %
ATM Pressure:	100.1 kPa~100.2 kPa
Tester:	Andy Huang
Test Date:	2019-06-20~2019-06-21

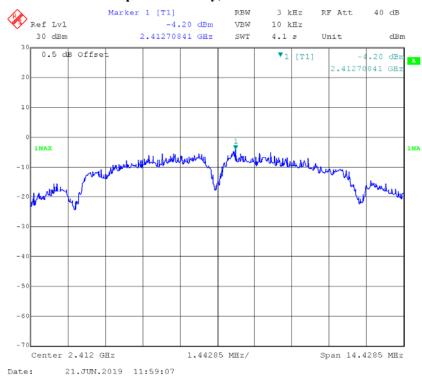
Test Result: Compliance

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)
	Low	2412	-4.20	≤8
802.11b	Middle	2437	-5.13	≤8
	High	2462	-5.78	≤8
	Low	2412	-9.23	≤8
802.11g	Middle	2437	-9.18	≤8
	High	2462	-9.16	≤8
	Low	2412	-9.24	≤8
802.11n ht20	Middle	2437	-9.76	≤8
	High	2462	-9.17	≤8
802.11n ht40	Low	2422	-10.88	≤8
	Middle	2437	-11.28	≤8
	High	2452	-13.41	≤8
BLE	Low	2402	-15.72	≤8
	Middle	2440	-15.29	≤8
	High	2480	-16.23	≤8

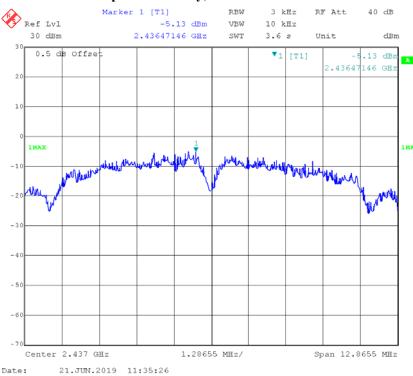
Power Spectral Density, 802.11b Low Channel



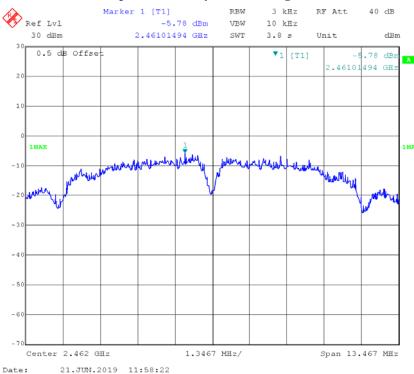
Report No.: RDG190606010-00B

Power Spectral Density, 802.11b Middle Channel

Report No.: RDG190606010-00B

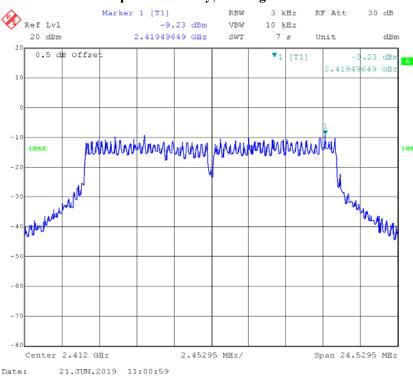


Power Spectral Density, 802.11b High Channel

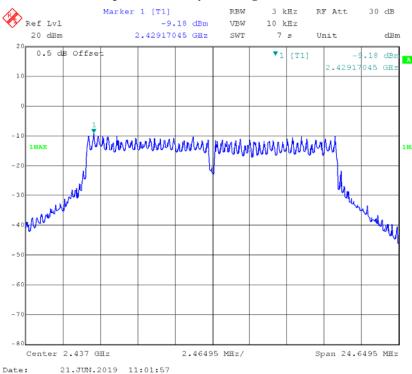


Power Spectral Density, 802.11g Low Channel

Report No.: RDG190606010-00B

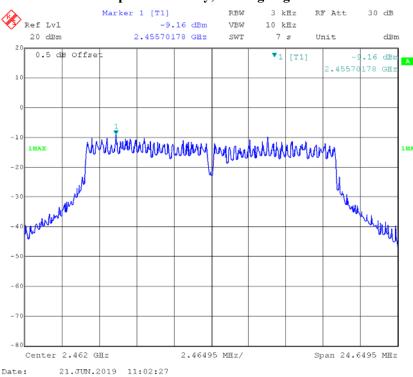


Power Spectral Density, 802.11g Middle Channel

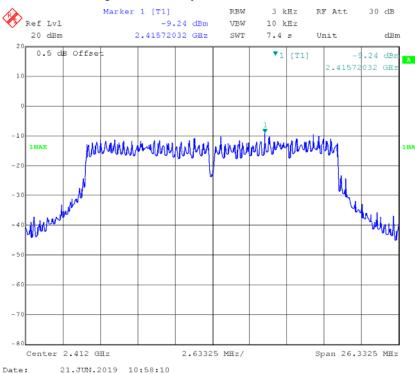


Power Spectral Density, 802.11g High Channel

Report No.: RDG190606010-00B

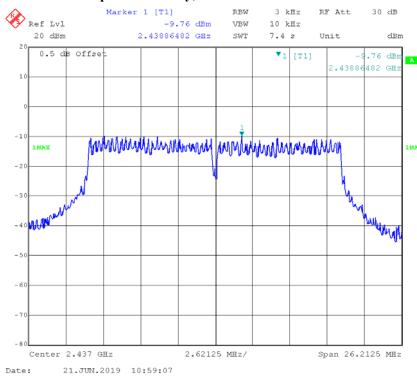


Power Spectral Density, 802.11n ht20 Low Channel

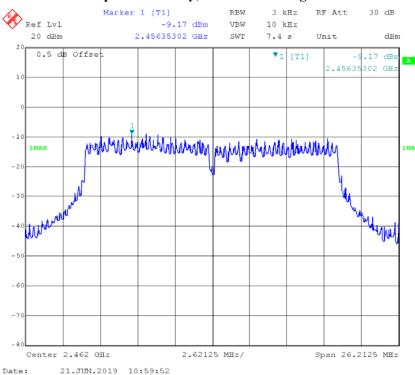


Power Spectral Density, 802.11n ht20 Middle Channel

Report No.: RDG190606010-00B

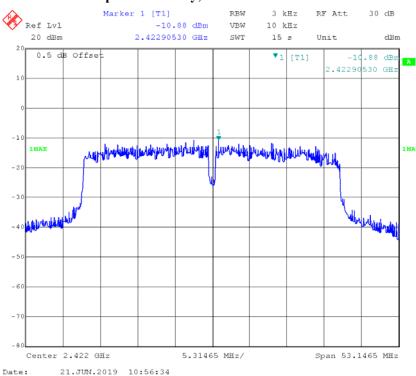


Power Spectral Density, 802.11n ht20 High Channel

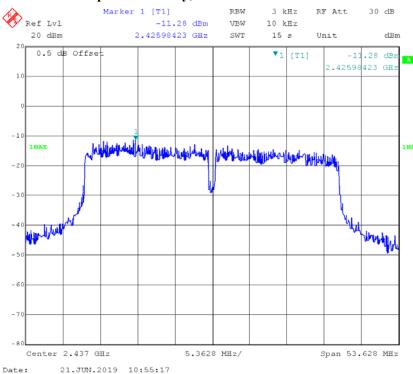


Power Spectral Density, 802.11n ht40 Low Channel

Report No.: RDG190606010-00B

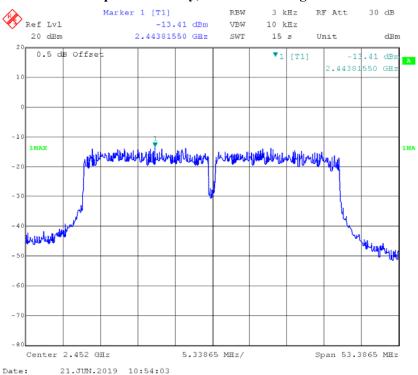


Power Spectral Density, 802.11n ht40 Middle Channel

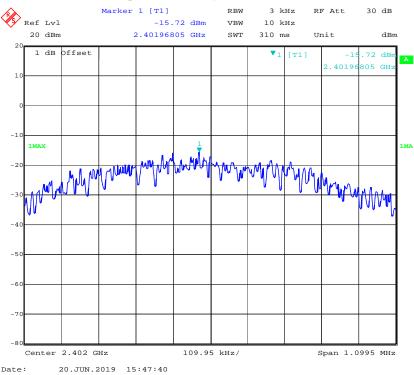


Power Spectral Density, 802.11n ht40 High Channel

Report No.: RDG190606010-00B

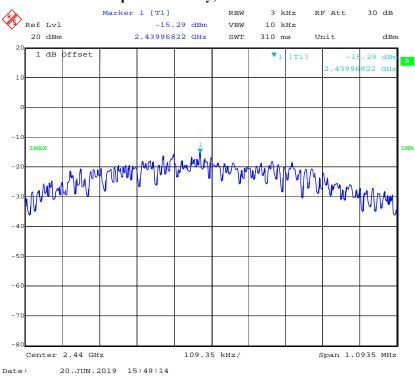


Power Spectral Density, BLE Low Channel

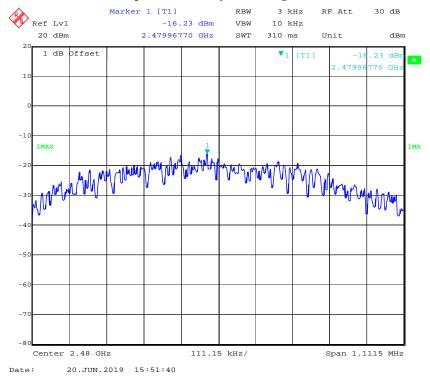


Power Spectral Density, BLE Middle Channel

Report No.: RDG190606010-00B



Power Spectral Density, BLE High Channel



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