TEST REPORT

Reference No. WTS15S0730784-2E

FCC ID.....: 2AFJXA4REVOLUTION

Kong

Manufacturer : Uwin Innovation (Hongkong) Limited

road, Nantou Gate, NanShanDistrict, ShenZhen P.R.C.

Product Name : Mobile Phone

Model No. : A4 REVOLUTION, NOW QS50, UW5003K

Brand. : AUDINAC(A4 REVOLUTION), I-modo(NOW QS50)

Standards.....: FCC CFR47 Part 15 Section 15.247:2014

Date of Issue : Aug. 04, 2015

Test Result Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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2 Test Summary

Test Items	Test Requirement	Result
	15.247(d)	
Radiated Spurious Emissions	15.205(a)	PASS
	15.209(a)	
Conducted Spurious Emissions	15.247(d)	PASS
Conducted Emissions	15.207(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3),(4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

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4 General Information

4.1 General Description of E.U.T.

Product Name : Mobile Phone

Model No. :A4 REVOLUTION, NOW QS50, UW5003K

Model Description : Only the brand and model name are different.

GSM Band(s) : GSM 850/900/1800/1900MHz

GPRS/EGPRS Class : 12

WCDMA Band(s) : FDD Band I/V

LTE Band(s) : N/A

Wi-Fi Specification : 802.11b/g/n HT20/n HT40

Bluetooth Version : Bluetooth v4.0 with BLE

GPS : Support

NFC : N/A

Hardware Version : YK850_MB_v0.1

Software Version : ALPS.KK1.MP1.V2.11

4.2 Details of E.U.T.

Operation Frequency : GSM/GPRS/EGPRS 850: 824~849MHz

PCS/GPRS/EGPRS1900: 1850~1910MHz

WCDMA Band V: 824~849MHz

WiFi:

802.11b/g/n HT20: 2412-2462MHz 802.11n HT40: 2422-2452MHz Bluetooth: 2402-2480MHz

Max. RF output power : GSM 850: 32.20dBm

EGPRS 850: 27.99dBm PCS1900:30.08dBm EGPRS 1900:25.55dBm WCDMA Band V: 22.43dBm

WiFi: 9.41dBm Bluetooth: 5.50dBm

Type of Modulation : GSM,GPRS: GMSK

EGPRS: GMSK, 8PSK

WCDMA: BPSK WiFi: CCK, OFDM

Bluetooth: GFSK, Pi/4 DQPSK,8DPSK

Antenna installation : GSM/WCDMA: internal permanent antenna

WiFi/Bluetooth: internal permanent antenna

Antenna Gain : GSM 850: -3.1dBi

PCS1900: -2.5dBi

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WCDMA Band V: -3.1dBi

WiFi: -1.37dBi Bluetooth:-1.37dBi

Technical Data :Battery DC 3.7V, 1800mAh

DC 5V,1A, Charging form adapter

Adapter Input: 100-240V, 50/60Hz, 0.3A

Adapter :Manufacture:

Shenzhen Changyuanxin Electronic Technology Co., Ltd.

Model No.: BY120501000

4.3 Channel List

WIFI

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
No.	(MHz)	No.	(MHz)	No.	(MHz)	No.	(MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	12	-

BT BLE

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
No.	(MHz)	No.	(MHz)	No.	(MHz)	No.	(MHz)
0	2402	1	2404	2	2406	3	2408
4	2410	5	2412	6	2414	7	2416
8	2418	9	2420	10	2422	11	2424
12	2426	13	2428	14	2430	15	2432
16	2434	17	2436	18	2438	19	2440
20	2442	21	2444	22	2446	23	2448
24	2450	25	2452	26	2454	27	2456
28	2458	29	2460	30	2462	31	2464
32	2466	33	2468	34	2470	35	2472
36	2474	37	2476	38	2478	39	2480

4.4 Test Mode

Table 1 Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
	802.11b	11 Mbps	1/6/11	TX
Maximum Book Output Bower	802.11g	54 Mbps	1/6/11	TX
Maximum Peak Output Power	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	108 Mbps	3/6/9	TX
	802.11b	11 Mbps	1/6/11	TX
Dower Spectral Density	802.11g	54 Mbps	1/6/11	TX
Power Spectral Density	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	108 Mbps	3/6/9	TX
	802.11b	11 Mbps	1/6/11	TX
CdD Doodwidth	802.11g	54 Mbps	1/6/11	TX
6dB Bandwidth	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	108 Mbps	3/6/9	TX
	802.11b	11 Mbps	1/6/11	TX
Pand Edua	802.11g	54 Mbps	1/6/11	TX
Band Edge	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	108 Mbps	3/6/9	TX
	802.11b	11 Mbps	1/6/11	TX
Transmitter Spurious Emissions	802.11g	54 Mbps	1/6/11	TX
Transmitter Spurious Emissions	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	108 Mbps	3/6/9	TX

Table 2 Tests Carried Out Under FCC part 15.247

Table 2 Toda Califica Cat Chach Too part 10:217					
Test Items	Mode	Data Rate	Channel	TX/RX	
Maximum Peak Output Power	BT BLE	1 Mbps	0/19/39	TX	
Power Spectral Density	BT BLE	1 Mbps	0/19/39	TX	
6dB Bandwidth	BT BLE	1 Mbps	0/19/39	TX	
Band Edge	BT BLE	1 Mbps	0/19/39	TX	
Transmitter Spurious Emissions	BT BLE	1 Mbps	0/19/39	TX	

Note :Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product .

Table 3 Tests Carried Out Under FCC part 15.207 & FCC part 15.209

Test Item	Test Mode	
Conduction Emission, 0.15MHz to 30MHz	Communication(Wifi & BT BLE)	

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4.5 Test Facility

The test facility has a test site registered with the following organizations:

• IC – Registration No.: 7760A

Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, July 12, 2012.

• FCC Test Site 1#— Registration No.: 880581

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.

FCC Test Site 2# Registration No.: 328995

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

5 Equipment Used during Test

5.1 Equipments List

Conducted Emissions at Mains Terminals Disturbance Voltage								
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date		
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.15,2014	Sep.14,2015		
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.15,2014	Sep.14,2015		
3.	Limiter	York	MTS-IMP-136	261115-001- 0024	Sep.15,2014	Sep.14,2015		
4.	Cable	LARGE	RF300	-	Sep.15,2014	Sep.14,2015		
3m Se	mi-anechoic Cham	ber for Radiation						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date		
1	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.15,2014	Sep.14,2015		
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.15,2014	Sep.14,2015		
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.18,2015	Apr.17,2016		
4	Coaxial Cable (below 1GHz)	Тор	TYPE16(13M)	-	Sep.15,2014	Sep.14,2015		
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.18,2015	Apr.17,2016		
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	669	Apr.18,2015	Apr.17,2016		
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2015	Mar.16,2016		
8	Coaxial Cable (above 1GHz)	Тор	1000MHz-25GHz	EW02014-7	Apr.10,2014	Apr.09,2015		
9	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Sep.15,2014	Sep.14,2015		
10	Universal Radio Communication Tester	R&S	CMU 200	112461	Apr.10,2015	Apr.09,2016		
11	Signal Generator	R&S	SMR20	100046	Sep.15,2014	Sep.14,2015		
RF Co	nducted Testing							
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date		
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Aug. 15,2014	Aug.14,2015		
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	Aug. 15,2014	Aug.14,2015		
3.	Humidity Chamber	GF	GTH-225-40-1P	IAA061213	Aug. 15,2014	Aug.14,2015		

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5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
1	1	1	1

5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	± 1 x 10 ⁻⁶
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
	± 5.03 dB (30M~1000MHz)
Radiated Spurious Emissions test	± 5.47 dB (1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

5.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

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6 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.4:2009

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class/Severity: Class B

Limit: 66-56 dB_µV between 0.15MHz & 0.5MHz

 $56~dB\mu V$ between 0.5MHz & 5MHz $60~dB\mu V$ between 5MHz & 30MHz

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

6.1 E.U.T. Operation

Operating Environment:

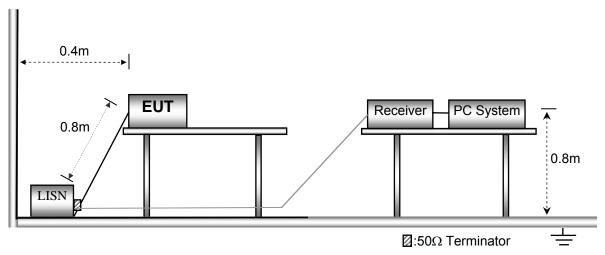
Temperature: 21.5 °C
Humidity: 51.9 % RH
Atmospheric Pressure: 101.2kPa

EUT Operation:

The test was performed in WIFI link mode(Wifi /BT BLE), the worst data were shown in the report.

6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4.



6.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

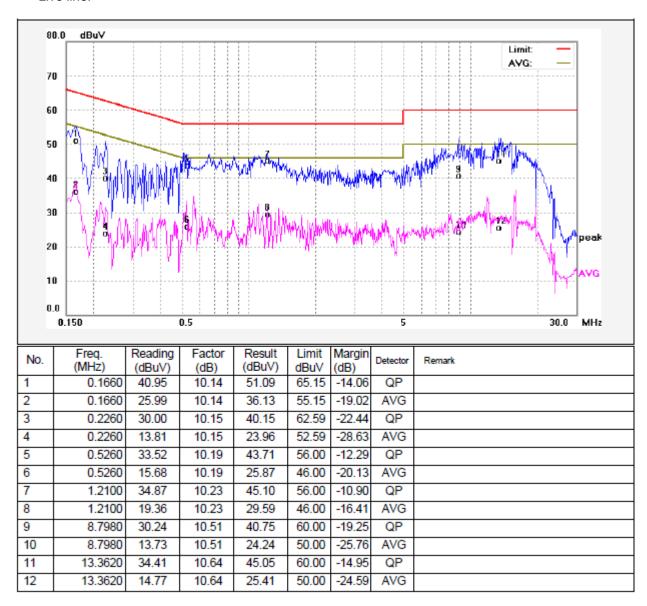
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6.4 Conducted Emission Test Result

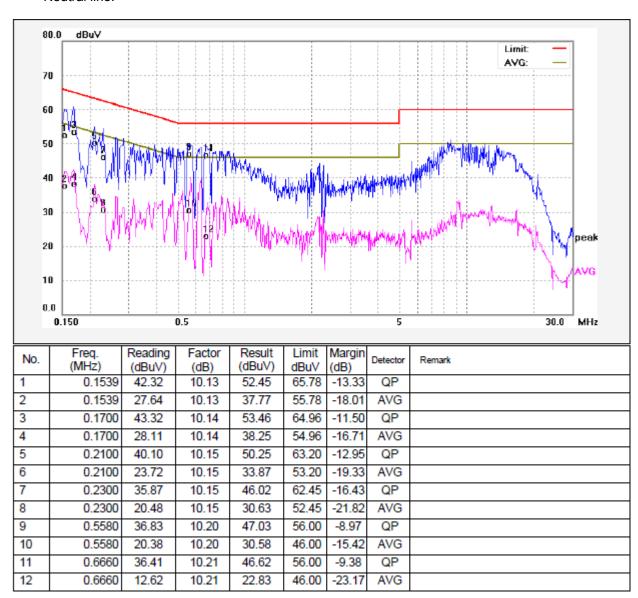
An initial pre-scan was performed on the live and neutral lines.

Worst Mode: BT+WIFI mode (Wifi)

Live line:



Neutral line:



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7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.4:2009

Test Result: PASS
Measurement Distance: 3m

Limit:

Littit.						
_	Field Strength		Field Strength Limit at 3m Measurement Dist			
Frequency (MHz)	uV/m Distance (m)		uV/m	dBuV/m		
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80		
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40		
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40		
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾		
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾		
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾		
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾		

7.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C
Humidity: 52.1 % RH
Atmospheric Pressure: 101.2kPa

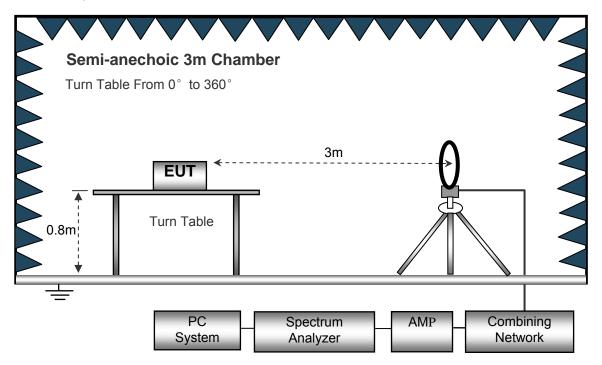
EUT Operation:

The test was performed in WIFI link mode(Wifi /BT BLE), the test data were shown in the report.

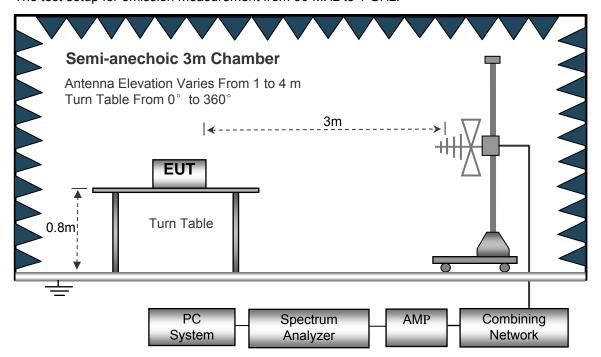
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.

The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



Anechoic 3m Chamber

Antenna Elevation Varies From 1 to 4 m

Turn Table From 0° to 360°

3m

Turn Table

Absorbers

Spectrum

Analyzer

Combining

Network

The test setup for emission measurement above 1 GHz.

PC

System

7.3 Spectrum Analyzer Setup

Sweep Speed	. Auto
IF Bandwidth	.10kHz
Video Bandwidth	.10kHz
Resolution Bandwidth	.10kHz
z	
Sweep Speed	. Auto
Detector	.PK
Resolution Bandwidth	.100kHz
Video Bandwidth	.300kHz
Sweep Speed	. Auto
Detector	.PK
Resolution Bandwidth	.1MHz
Video Bandwidth	.3MHz
Detector	.Ave.
Resolution Bandwidth	.1MHz
Video Bandwidth	.10Hz
	Sweep Speed

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7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.

- 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
- 8. A 2.4GHz high -pass filter is used druing radiated emissions above 1GHz measurement.

7.5 Corrected Amplitude & Margin Calculation

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

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - 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 maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. - Limit

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7.6 Summary of Test Results

Wifi:

Test Frequency: 26MHz ~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 18GHz

F	Receiver	Detector	Turn	RX An	tenna	Corrected	0 1 1	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			11b: Lo	w Chann	el 2412 l	ИНz			
223.28	41.99	QP	104	1.5	Н	-11.62	30.37	46.00	-15.63
223.28	35.14	QP	167	1.7	V	-11.62	23.52	46.00	-22.48
4824.00	51.59	PK	264	1.6	V	-1.06	50.53	74.00	-23.47
4824.00	46.26	Ave	264	1.6	V	-1.06	45.20	54.00	-8.80
7236.00	42.15	PK	111	1.0	Н	1.33	43.48	74.00	-30.52
7236.00	40.79	Ave	111	1.0	Н	1.33	42.12	54.00	-11.88
2330.04	45.84	PK	341	1.1	V	-13.19	32.65	74.00	-41.35
2330.04	38.67	Ave	341	1.1	V	-13.19	25.48	54.00	-28.52
2354.34	42.23	PK	283	1.2	Н	-13.14	29.09	74.00	-44.91
2354.34	38.50	Ave	283	1.2	Н	-13.14	25.36	54.00	-28.64
2494.64	42.30	PK	65	1.3	V	-13.08	29.22	74.00	-44.78
2494.64	38.32	Ave	65	1.3	V	-13.08	25.24	54.00	-28.76

F	Receiver	Datastan	Turn	RX An	tenna	Corrected	0	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			11b: Mid	dle Chan	nel 243	7MHz			
223.28	43.47	QP	111	1.7	Н	-11.62	31.85	46.00	-14.15
223.28	35.29	QP	1	1.4	V	-11.62	23.67	46.00	-22.33
4874.00	52.51	PK	28	1.4	V	-0.62	51.89	74.00	-22.11
4874.00	45.35	Ave	28	1.4	V	-0.62	44.73	54.00	-9.27
7311.00	40.83	PK	29	1.4	Н	2.21	43.04	74.00	-30.96
7311.00	40.13	Ave	29	1.4	Н	2.21	42.34	54.00	-11.66
2321.44	46.68	PK	135	1.1	V	-13.19	33.49	74.00	-40.51
2321.44	39.22	Ave	135	1.1	V	-13.19	26.03	54.00	-27.97
2363.73	43.61	PK	198	1.5	Н	-13.14	30.47	74.00	-43.53
2363.73	38.68	Ave	198	1.5	Н	-13.14	25.54	54.00	-28.46
2495.91	44.30	PK	218	1.7	V	-13.08	31.22	74.00	-42.78
2495.91	37.62	Ave	218	1.7	V	-13.08	24.54	54.00	-29.46

_	Receiver	5	Turn	RX An	tenna	Corrected		FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			11b: Hi	gh Chanr	nel 2462	?MHz			
223.28	44.41	QP	229	2.0	Н	-11.62	32.79	46.00	-13.21
223.28	36.34	QP	224	1.1	V	-11.62	24.72	46.00	-21.28
4924.00	53.02	PK	136	1.2	V	-0.24	52.78	74.00	-21.22
4924.00	46.08	Ave	136	1.2	V	-0.24	45.84	54.00	-8.16
7386.00	41.65	PK	51	1.8	Н	2.84	44.49	74.00	-29.51
7386.00	41.01	Ave	51	1.8	Н	2.84	43.85	54.00	-10.15
2319.66	46.68	PK	188	1.2	V	-13.19	33.49	74.00	-40.51
2319.66	38.71	Ave	188	1.2	V	-13.19	25.52	54.00	-28.48
2368.00	42.50	PK	234	1.5	Н	-13.14	29.36	74.00	-44.64
2368.00	37.18	Ave	234	1.5	Н	-13.14	24.04	54.00	-29.96
2486.07	42.56	PK	128	1.4	V	-13.08	29.48	74.00	-44.52
2486.07	37.78	Ave	128	1.4	V	-13.08	24.70	54.00	-29.30

F	Receiver	Datastan	Turn	RX An	tenna	Corrected	Carrantad	FCC F 15.247/2	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			11g: Lo	w Chann	el 2412l	MHz			
223.28	44.10	QP	47	1.9	Н	-11.62	32.48	46.00	-13.52
223.28	36.00	QP	350	1.5	V	-11.62	24.38	46.00	-21.62
4824.00	52.50	PK	295	1.5	V	-1.06	51.44	74.00	-22.56
4824.00	47.38	Ave	295	1.5	V	-1.06	46.32	54.00	-7.68
7236.00	42.17	PK	143	1.9	Н	1.33	43.50	74.00	-30.50
7236.00	39.60	Ave	143	1.9	Н	1.33	40.93	54.00	-13.07
2313.14	45.35	PK	126	1.9	V	-13.19	32.16	74.00	-41.84
2313.14	38.98	Ave	126	1.9	V	-13.19	25.79	54.00	-28.21
2359.64	42.59	PK	148	1.5	Н	-13.14	29.45	74.00	-44.55
2359.64	36.96	Ave	148	1.5	Н	-13.14	23.82	54.00	-30.18
2496.16	44.00	PK	175	1.9	V	-13.08	30.92	74.00	-43.08
2496.16	37.74	Ave	175	1.9	V	-13.08	24.66	54.00	-29.34

F	Receiver	Datastan	Turn	RX An	tenna	Corrected	0	FCC F 15.247/2	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			11g: Mid	dle Chan	nel 243	7MHz			
223.28	44.31	QP	4	1.7	Н	-11.62	32.69	46.00	-13.31
223.28	34.86	QP	4	1.8	V	-11.62	23.24	46.00	-22.76
4874.00	52.67	PK	241	1.8	V	-0.62	52.05	74.00	-21.95
4874.00	47.71	Ave	241	1.8	V	-0.62	47.09	54.00	-6.91
7311.00	41.24	PK	27	1.3	Н	2.21	43.45	74.00	-30.55
7311.00	41.01	Ave	27	1.3	Н	2.21	43.22	54.00	-10.78
2332.02	45.32	PK	40	1.6	V	-13.19	32.13	74.00	-41.87
2332.02	38.36	Ave	40	1.6	V	-13.19	25.17	54.00	-28.83
2382.17	43.14	PK	339	1.0	Н	-13.14	30.00	74.00	-44.00
2382.17	37.29	Ave	339	1.0	Н	-13.14	24.15	54.00	-29.85
2496.38	42.42	PK	248	1.3	V	-13.08	29.34	74.00	-44.66
2496.38	37.27	Ave	248	1.3	V	-13.08	24.19	54.00	-29.81

_	Receiver	D 4 4	Turn	RX An	tenna	Corrected	0 1 1	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			11g: Hiç	gh Chann	el 2462	MHz			
223.28	43.85	QP	123	1.3	Н	-11.62	32.23	46.00	-13.77
223.28	35.18	QP	169	1.0	V	-11.62	23.56	46.00	-22.44
4924.00	52.35	PK	291	1.0	V	-0.24	52.11	74.00	-21.89
4924.00	46.33	Ave	291	1.0	V	-0.24	46.09	54.00	-7.91
7386.00	41.64	PK	45	1.8	Н	2.84	44.48	74.00	-29.52
7386.00	40.95	Ave	45	1.8	Н	2.84	43.79	54.00	-10.21
2342.96	46.60	PK	225	1.7	V	-13.19	33.41	74.00	-40.59
2342.96	37.30	Ave	225	1.7	V	-13.19	24.11	54.00	-29.89
2379.68	44.24	PK	88	1.4	Н	-13.14	31.10	74.00	-42.90
2379.68	38.38	Ave	88	1.4	Н	-13.14	25.24	54.00	-28.76
2496.94	42.86	PK	238	1.0	V	-13.08	29.78	74.00	-44.22
2496.94	38.57	Ave	238	1.0	V	-13.08	25.49	54.00	-28.51

	Receiver	D 1 1	Turn	RX An	tenna	Corrected	0 1 1	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			n20: Lo	w Chann	el 2412l	MHz			
223.28	45.28	QP	124	1.4	Н	-11.62	33.66	46.00	-12.34
223.28	35.92	QP	148	2.0	V	-11.62	24.30	46.00	-21.70
4824.00	52.45	PK	202	1.8	V	-1.06	51.39	74.00	-22.61
4824.00	47.64	Ave	202	1.8	V	-1.06	46.58	54.00	-7.42
7236.00	42.39	PK	41	1.3	Н	1.33	43.72	74.00	-30.28
7236.00	41.27	Ave	41	1.3	Н	1.33	42.60	54.00	-11.40
2333.60	46.89	PK	302	1.8	V	-13.19	33.70	74.00	-40.30
2333.60	39.47	Ave	302	1.8	V	-13.19	26.28	54.00	-27.72
2384.43	43.60	PK	49	1.5	Н	-13.14	30.46	74.00	-43.54
2384.43	36.82	Ave	49	1.5	Н	-13.14	23.68	54.00	-30.32
2487.51	43.48	PK	121	1.8	V	-13.08	30.40	74.00	-43.60
2487.51	37.46	Ave	121	1.8	V	-13.08	24.38	54.00	-29.62

F	Receiver	Datastan	Turn	RX An	tenna	Corrected	0	FCC F 15.247/2	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			n20: Mid	dle Chan	nel 243	7MHz			
223.28	43.87	QP	215	1.1	Н	-11.62	32.25	46.00	-13.75
223.28	37.07	QP	123	1.2	V	-11.62	25.45	46.00	-20.55
4874.00	51.26	PK	357	1.4	V	-0.62	50.64	74.00	-23.36
4874.00	47.90	Ave	357	1.4	V	-0.62	47.28	54.00	-6.72
7311.00	43.52	PK	105	1.4	Н	2.21	45.73	74.00	-28.27
7311.00	42.10	Ave	105	1.4	Н	2.21	44.31	54.00	-9.69
2339.49	46.09	PK	264	1.1	V	-13.19	32.90	74.00	-41.10
2339.49	38.02	Ave	264	1.1	V	-13.19	24.83	54.00	-29.17
2374.12	44.51	PK	256	2.0	Н	-13.14	31.37	74.00	-42.63
2374.12	38.54	Ave	256	2.0	Н	-13.14	25.40	54.00	-28.60
2485.99	44.24	PK	353	1.1	V	-13.08	31.16	74.00	-42.84
2485.99	37.63	Ave	353	1.1	V	-13.08	24.55	54.00	-29.45

	Receiver	5	Turn	RX An	tenna	Corrected	Corrected	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			n20: Hiç	gh Chann	el 2462	MHz			
223.28	43.58	QP	255	1.9	Н	-11.62	31.96	46.00	-14.04
223.28	36.11	QP	272	1.5	V	-11.62	24.49	46.00	-21.51
4924.00	52.72	PK	26	1.7	V	-0.24	52.48	74.00	-21.52
4924.00	48.06	Ave	26	1.7	V	-0.24	47.82	54.00	-6.18
7386.00	44.80	PK	21	1.3	Н	2.84	47.64	74.00	-26.36
7386.00	40.79	Ave	21	1.3	Н	2.84	43.63	54.00	-10.37
2331.41	46.36	PK	6	1.9	V	-13.19	33.17	74.00	-40.83
2331.41	38.96	Ave	6	1.9	V	-13.19	25.77	54.00	-28.23
2356.29	43.17	PK	272	1.8	Н	-13.14	30.03	74.00	-43.97
2356.29	38.25	Ave	272	1.8	Н	-13.14	25.11	54.00	-28.89
2495.92	43.27	PK	149	1.6	V	-13.08	30.19	74.00	-43.81
2495.92	37.22	Ave	149	1.6	V	-13.08	24.14	54.00	-29.86

F	Receiver	Datastan	Turn	RX An	tenna	Corrected	Carrantad	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			n40: Lo	w Chann	el 2422I	MHz			
223.28	44.49	QP	271	1.0	Н	-11.62	32.87	46.00	-13.13
223.28	36.15	QP	126	1.9	V	-11.62	24.53	46.00	-21.47
4844.00	49.95	PK	278	1.0	V	-1.06	48.89	74.00	-25.11
4844.00	46.38	Ave	278	1.0	V	-1.06	45.32	54.00	-8.68
7266.00	43.12	PK	274	1.5	Н	1.33	44.45	74.00	-29.55
7266.00	39.50	Ave	274	1.5	Н	1.33	40.83	54.00	-13.17
2321.44	46.93	PK	56	1.6	V	-13.19	33.74	74.00	-40.26
2321.44	38.76	Ave	56	1.6	V	-13.19	25.57	54.00	-28.43
2381.25	43.03	PK	102	1.8	Н	-13.14	29.89	74.00	-44.11
2381.25	38.40	Ave	102	1.8	Н	-13.14	25.26	54.00	-28.74
2489.10	43.45	PK	236	1.8	V	-13.08	30.37	74.00	-43.63
2489.10	38.21	Ave	236	1.8	V	-13.08	25.13	54.00	-28.87

Frequency	Receiver	Detector	Turn table	RX An	tenna	Corrected	Corrected	FCC F 15.247/20	
Frequency	Reading	Detector	Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			n40: Mid	dle Chan	nel 243	7MHz			
223.28	44.09	QP	201	1.1	Н	-11.62	32.47	46.00	-13.53
223.28	36.01	QP	124	1.7	V	-11.62	24.39	46.00	-21.61
4874.00	49.94	PK	266	1.7	V	-0.62	49.32	74.00	-24.68
4874.00	45.83	Ave	266	1.7	V	-0.62	45.21	54.00	-8.79
7311.00	43.43	PK	100	1.0	Н	2.21	45.64	74.00	-28.36
7311.00	39.68	Ave	100	1.0	Н	2.21	41.89	54.00	-12.11
2328.95	46.30	PK	176	1.4	V	-13.19	33.11	74.00	-40.89
2328.95	38.44	Ave	176	1.4	V	-13.19	25.25	54.00	-28.75
2356.06	42.14	PK	81	1.4	Н	-13.14	29.00	74.00	-45.00
2356.06	38.79	Ave	81	1.4	Н	-13.14	25.65	54.00	-28.35
2485.99	43.00	PK	219	1.1	V	-13.08	29.92	74.00	-44.08
2485.99	36.35	Ave	219	1.1	V	-13.08	23.27	54.00	-30.73

F	Receiver	Datastan	Turn	RX An	tenna	Corrected	0	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar	Factor	Corrected Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
			n40: Hiç	gh Chann	el 2452	MHz			
223.28	45.08	QP	300	1.6	Н	-11.62	33.46	46.00	-12.54
223.28	35.23	QP	15	1.5	V	-11.62	23.61	46.00	-22.39
4904.00	49.28	PK	290	1.9	V	-0.24	49.04	74.00	-24.96
4904.00	45.66	Ave	290	1.9	V	-0.24	45.42	54.00	-8.58
7356.00	43.15	PK	282	1.5	Н	2.84	45.99	74.00	-28.01
7356.00	39.62	Ave	282	1.5	Н	2.84	42.46	54.00	-11.54
2319.32	46.59	PK	170	1.5	V	-13.19	33.40	74.00	-40.60
2319.32	39.27	Ave	170	1.5	V	-13.19	26.08	54.00	-27.92
2383.91	44.17	PK	91	1.2	Н	-13.14	31.03	74.00	-42.97
2383.91	36.55	Ave	91	1.2	Н	-13.14	23.41	54.00	-30.59
2496.73	43.00	PK	152	1.4	V	-13.08	29.92	74.00	-44.08
2496.73	38.14	Ave	152	1.4	V	-13.08	25.06	54.00	-28.94

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

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BT BLE:

Test Frequency : 26MHz ~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 18GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected	Corrected		
				Height	Polar	Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Low Channel 2402MHz									
268.51	37.13	QP	191	1.0	Н	-13.35	23.78	46.00	-22.22
268.51	41.99	QP	80	1.9	V	-13.35	28.64	46.00	-17.36
4804.00	46.28	PK	249	1.8	V	-1.06	45.22	74.00	-28.78
4804.00	43.77	Ave	249	1.8	V	-1.06	42.71	54.00	-11.29
7206.00	41.04	PK	262	1.7	Н	1.33	42.37	74.00	-31.63
7206.00	34.46	Ave	262	1.7	Н	1.33	35.79	54.00	-18.21
2334.26	45.66	PK	88	1.3	V	-13.19	32.47	74.00	-41.53
2334.26	39.82	Ave	88	1.3	V	-13.19	26.63	54.00	-27.37
2356.01	42.26	PK	133	1.2	Н	-13.14	29.12	74.00	-44.88
2356.01	36.07	Ave	133	1.2	Н	-13.14	22.93	54.00	-31.07
2498.91	44.51	PK	285	1.7	V	-13.08	31.43	74.00	-42.57
2498.91	36.64	Ave	285	1.7	V	-13.08	23.56	54.00	-30.44

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected	prrected Corrected		
				Height	Polar	Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Middle Channel 2440MHz									
268.51	37.00	QP	83	1.7	Н	-13.35	23.65	46.00	-22.35
268.51	43.23	QP	35	1.2	V	-13.35	29.88	46.00	-16.12
4880.00	47.78	PK	107	1.2	V	-0.62	47.16	74.00	-26.84
4880.00	42.60	Ave	107	1.2	V	-0.62	41.98	54.00	-12.02
7320.00	40.77	PK	9	1.4	Н	2.21	42.98	74.00	-31.02
7320.00	34.80	Ave	9	1.4	Н	2.21	37.01	54.00	-16.99
2316.06	45.69	PK	334	1.1	V	-13.19	32.50	74.00	-41.50
2316.06	38.57	Ave	334	1.1	V	-13.19	25.38	54.00	-28.62
2378.59	43.42	PK	84	1.6	Н	-13.14	30.28	74.00	-43.72
2378.59	37.40	Ave	84	1.6	Н	-13.14	24.26	54.00	-29.74
2498.18	44.80	PK	343	1.1	V	-13.08	31.72	74.00	-42.28
2498.18	37.39	Ave	343	1.1	V	-13.08	24.31	54.00	-29.69

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Cor	Corrected		
				Height	Polar	Factor	Amplitude	Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
High Channel 2480MHz									
268.51	35.97	QP	36	1.6	Н	-13.35	22.62	46.00	-23.38
268.51	43.15	QP	13	1.1	V	-13.35	29.80	46.00	-16.20
4960.00	47.01	PK	44	1.9	V	-0.24	46.77	74.00	-27.23
4960.00	44.01	Ave	44	1.9	V	-0.24	43.77	54.00	-10.23
7440.00	41.96	PK	36	1.5	Н	2.84	44.80	74.00	-29.20
7440.00	35.96	Ave	36	1.5	Н	2.84	38.80	54.00	-15.20
2326.30	45.27	PK	105	1.7	V	-13.19	32.08	74.00	-41.92
2326.30	39.70	Ave	105	1.7	V	-13.19	26.51	54.00	-27.49
2375.41	44.56	PK	47	1.3	Н	-13.14	31.42	74.00	-42.58
2375.41	37.32	Ave	47	1.3	Н	-13.14	24.18	54.00	-29.82
2499.84	44.29	PK	290	1.8	V	-13.08	31.21	74.00	-42.79
2499.84	37.92	Ave	290	1.8	V	-13.08	24.84	54.00	-29.16

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported

Reference No.: WTS15S0730784-2E Page 32 of 76

8 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: DA 00-705
Test Result: PASS

Limit:

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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

2.1 Test Procedure

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- 2. Set the spectrum analyzer:

RBW = 100kHz, VBW = 300kHz, Sweep = auto Detector function = peak, Trace = max hold

2.2 Test Result

802.11b







802.11g







802.11n HT20







802.11n HT40







BEL GFSK







Reference No.: WTS15S0730784-2E Page 41 of 76

9 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r03 06/09/2015

Test Limit: Regulation 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)).

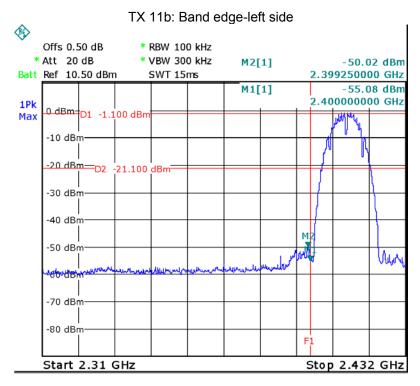
Test Mode: Transmitting

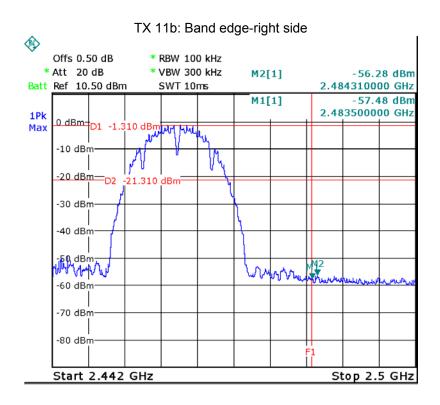
9.1 Test Produce

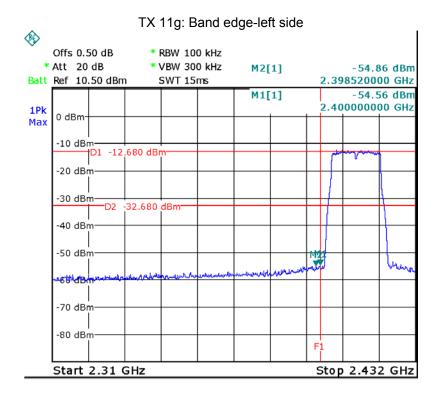
- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. 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.

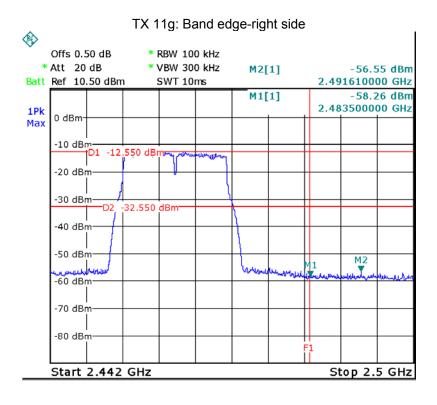
9.2 Test Result

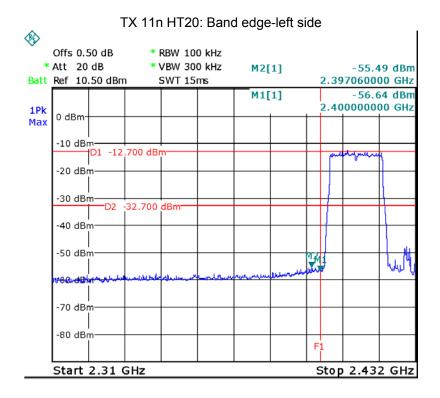
Test result plots shown as follows:

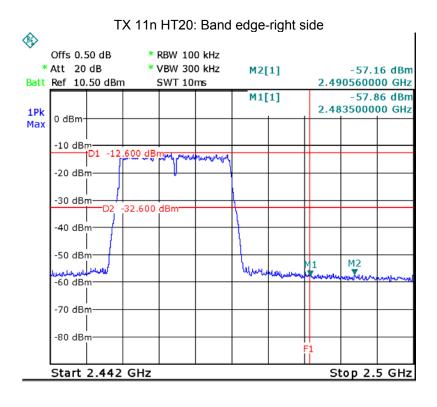


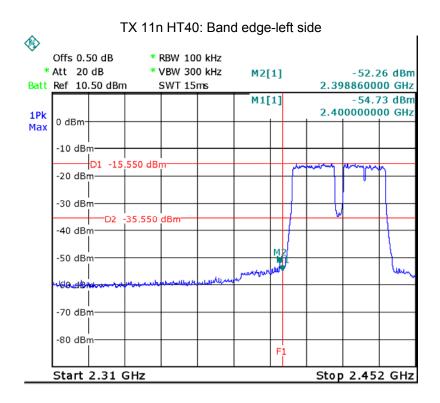


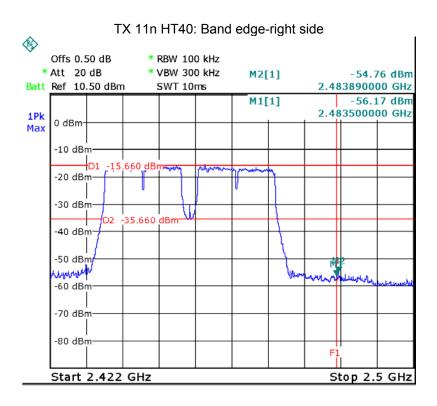


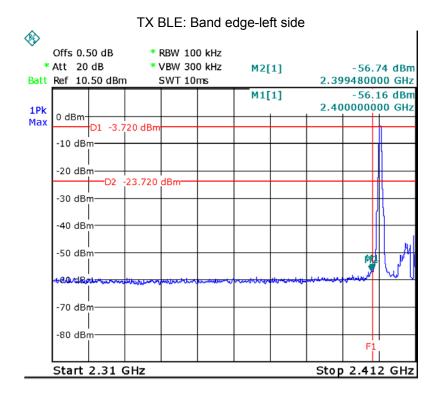


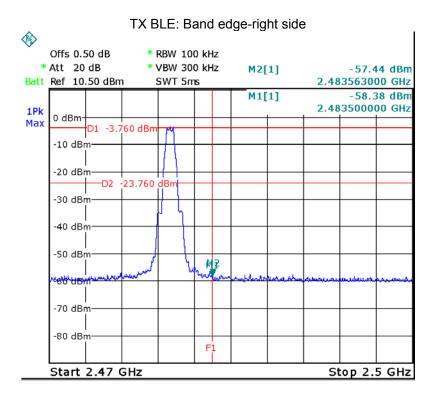












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10 6 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r03 06/09/2015

10.1 Test Procedure:

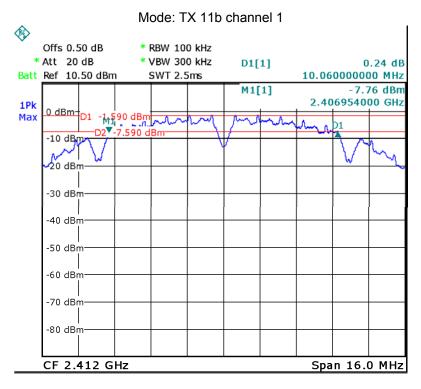
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

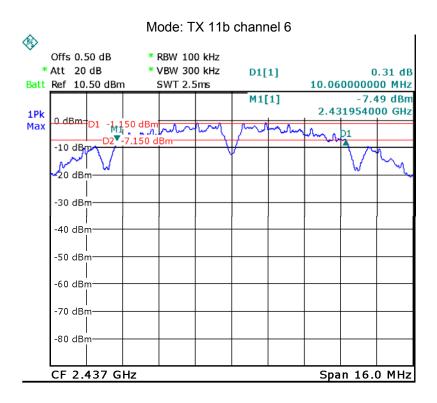
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

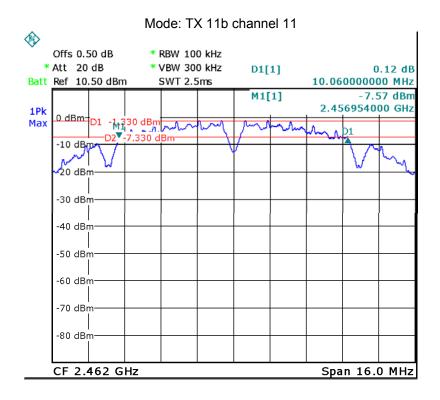
10.2 Test Result:

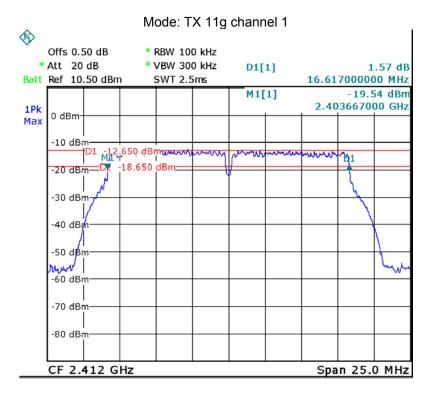
Operation mode	Bandwidth (MHz)		
	Channel 1	Channel 6	Channel 11
TX 11b	10.060	10.060	10.060
	Channel 1	Channel 6	Channel 11
TX 11g	16.617	16.617	16.617
TX 11n HT20	Channel 1	Channel 6	Channel 11
	17.838	17.838	17.838
TV 44 11742	Channel 3	Channel 6	Channel 9
TX 11n HT40	36.560	36.560	36.560
27.51.5	Channel 0	Channel 19	Channel 39
BT BLE	0.718	0.718	0.718

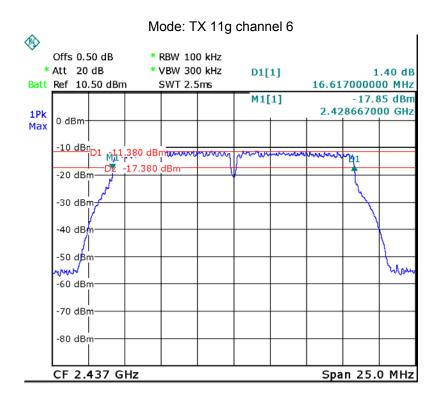
Test result plot as follows:

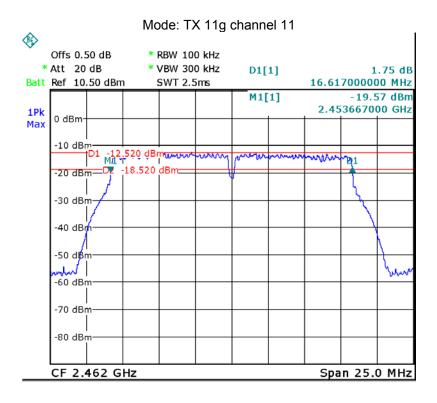


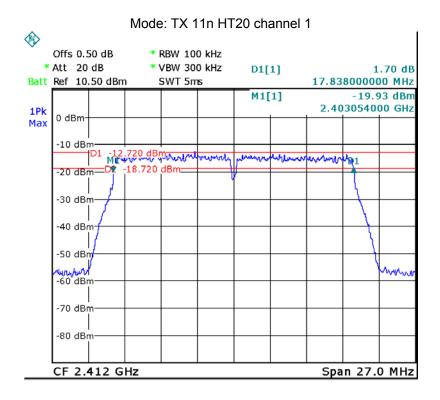


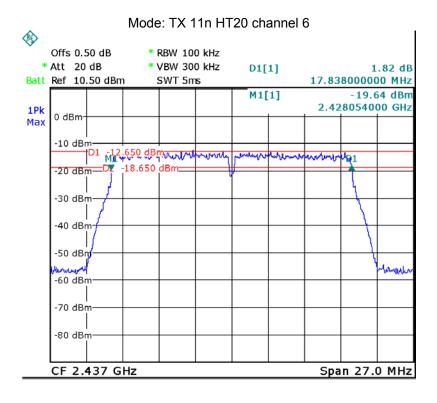


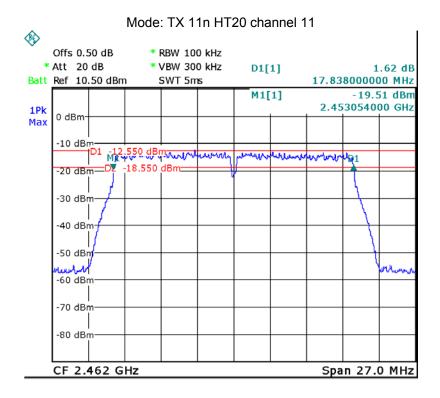


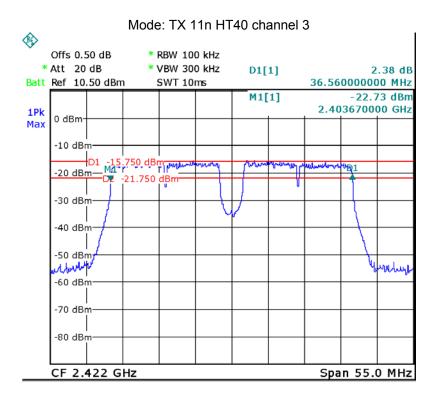


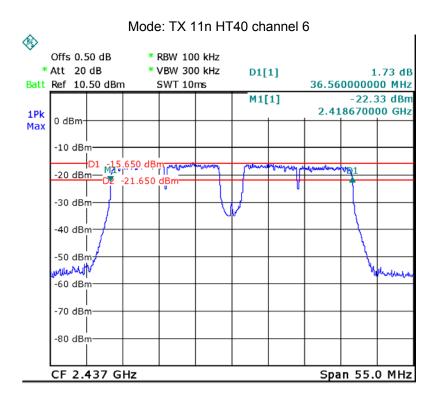


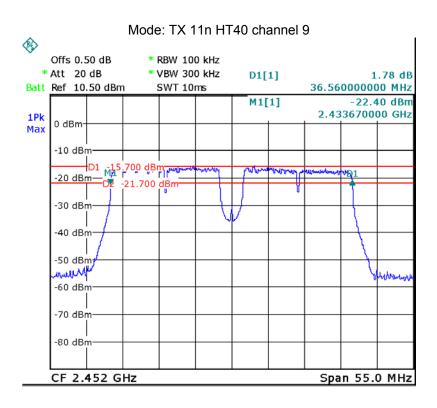


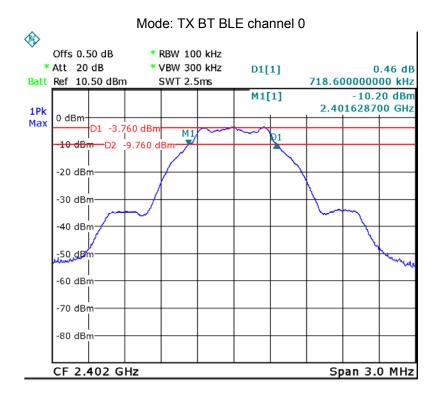


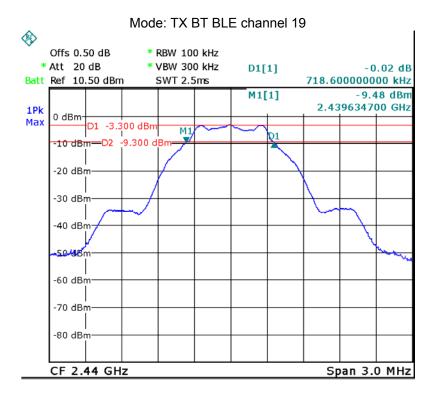


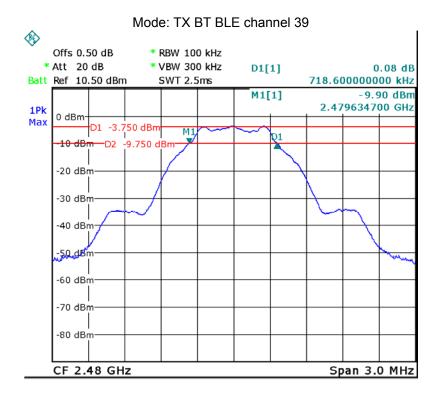












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11 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r03 06/09/2015

11.1 Test Procedure:

KDB 558074 D01 DTS Meas Guidance v03r03 06/09/2015

section 9.1.1 (For BLE)

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- a)Set the RBW ≥ DTS bandwidth.
- b)Set VBW ≥ 3 RBW.
- c)Set span ≥ 3 x RBW
- d)Sweep time = auto couple.
- e)Detector = peak.
- f)Trace mode = max hold.
- g)Allow trace to fully stabilize.
- h)Use peak marker function to determine the peak amplitude level.

section 9.1.2 (For WIFI)

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

- a)Set the RBW = 1 MHz.
- b)Set the VBW \geqslant 3 RBW
- c)Set the span \geq 1.5 x DTS bandwidth.
- d)Detector = peak.
- e)Sweep time = auto couple.
- f)Trace mode = max hold.
- g)Allow trace to fully stabilize.
- h)Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

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11.2 Test Result:

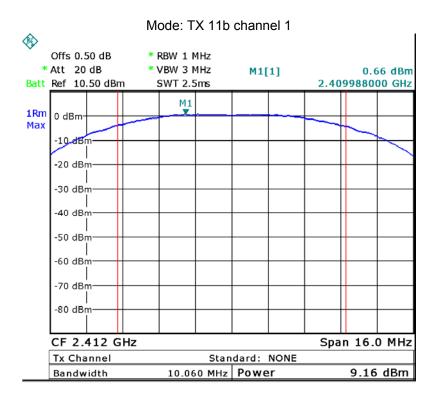
Test mode :TX 11b		
10 Maximum Peak Output Power (dBm)		
2412MHz 2437MHz 2462MHz		
9.16	9.35	9.37
Limit: 1W/30dBm		
1W/30dBm		

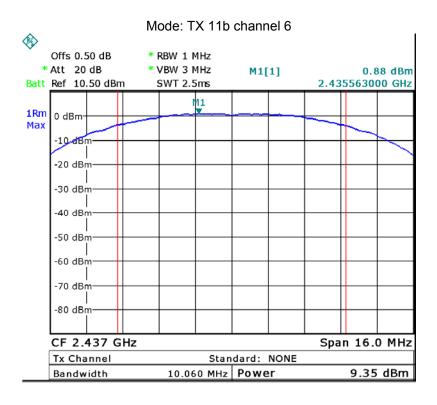
Test mode :TX 11g		
10 Maximum Peak Output Power (dBm)		
2412MHz 2437MHz 2462MHz		
9.38	9.16	9.41
Limit		
1W/30dBm		

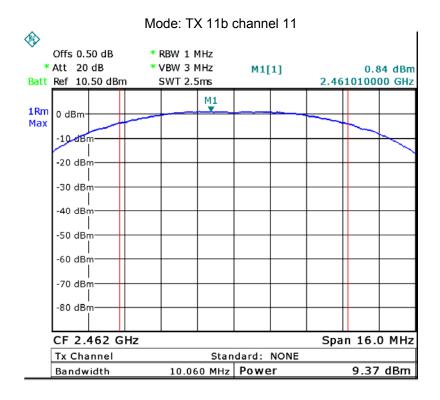
Test mode :TX 11n HT20		
10 Maximum Peak Output Power (dBm)		
2412MHz 2437MHz 2462MHz		
9.29 9.37 9.33		9.33
Limit		
1W/30dBm		

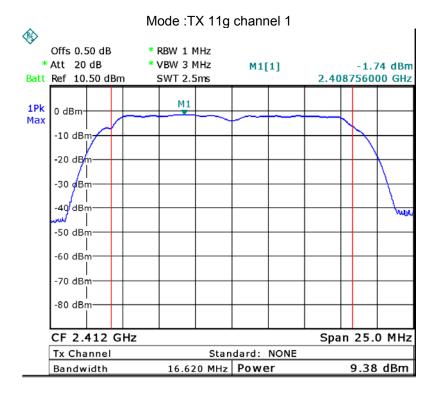
Test mode : TX 11n HT40		
10 Maximum Peak Output Power (dBm)		
2422MHz 2437MHz 2452MHz		
9.32 9.29 9.09		
Limit		
1W/30dBm		

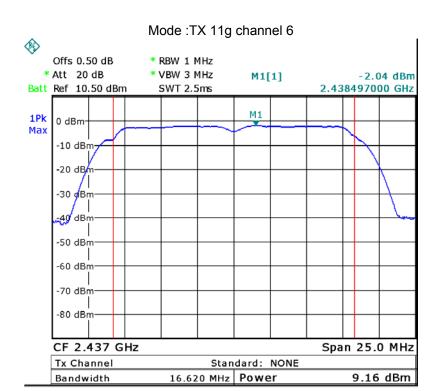
Test mode : TX BT BLE		
10 Maximum Peak Output Power (dBm)		
2402MHz 2440MHz 2480MHz		
-2.79 -2.36 -2.79		-2.79
Limit		
1W/30dBm		

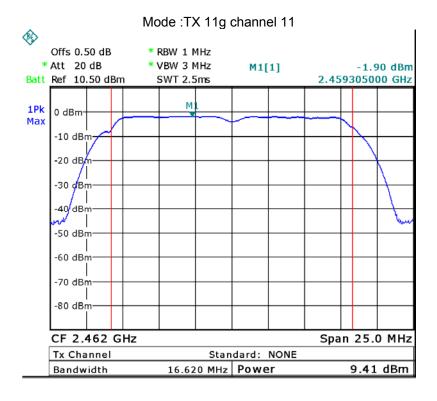




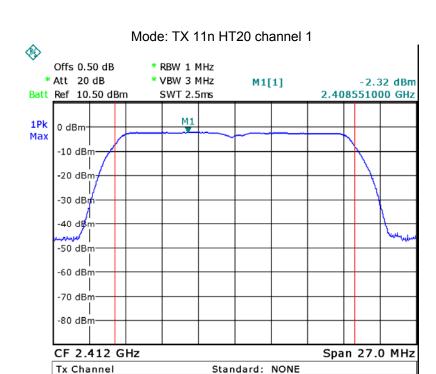






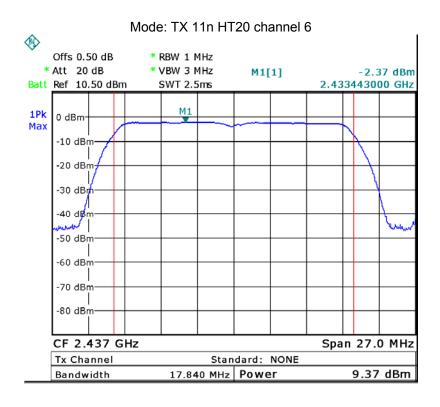


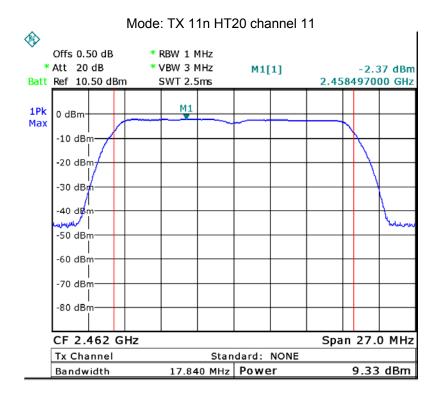
Bandwidth

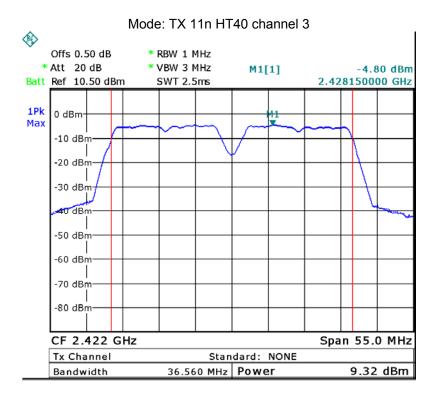


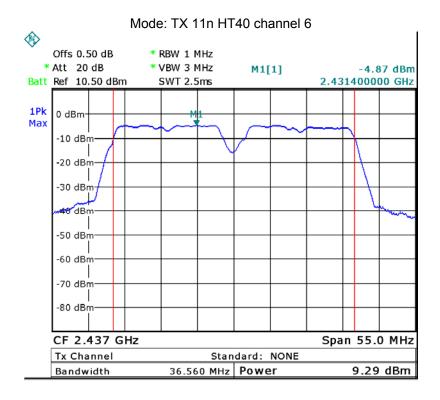
17.840 MHz Power

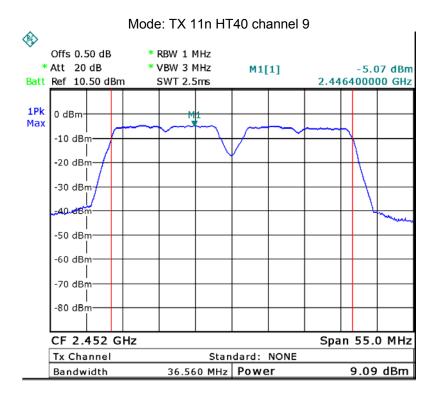
9.29 dBm

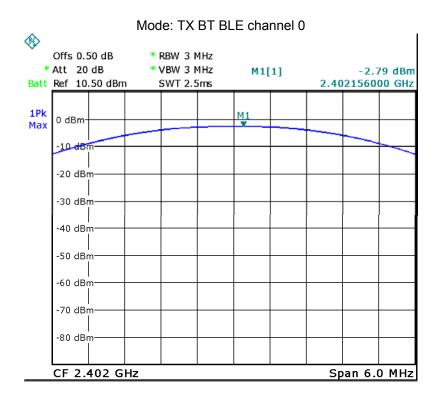


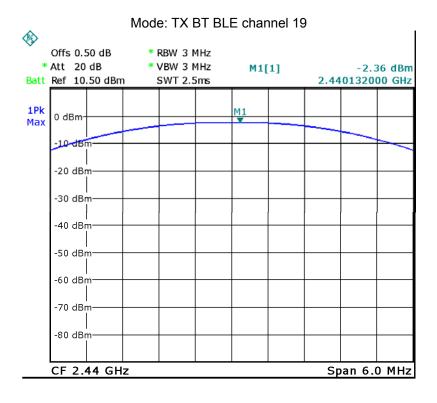


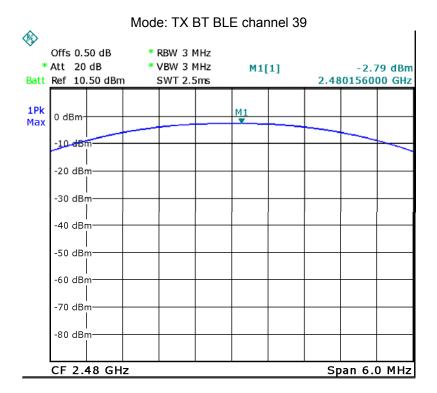












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12 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r03 06/09/2015

12.1 Test Procedure:

KDB 558074 D01 DTS Meas Guidance v03r03 06/09/2015 section 10.2

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
- 3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

12.2 Test Result:

Test mode :TX 11b		
Power Spectral (dBm per 3kHz)		
2412MHz 2437MHz 2462MHz		
-19.59 -19.78 -19.82		-19.82
Limit: 1W/30dBm		
8dBm per 3kHz		

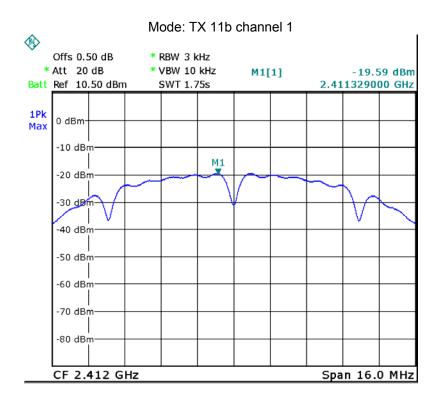
Test mode :TX 11g		
Power Spectral (dBm per 3kHz)		
2412MHz 2437MHz 2462MHz		
-26.54 -25.41 -26.84		
Limit		
8dBm per 3kHz		

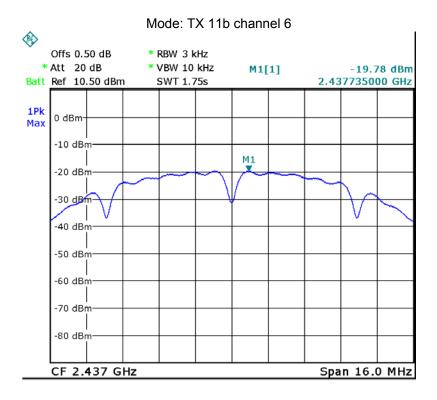
Test mode :TX 11n HT20		
Power Spectral (dBm per 3kHz)		
2412MHz 2437MHz 2462MHz		
-26.69 -26.17 -26.11		
Limit		
8dBm per 3kHz		

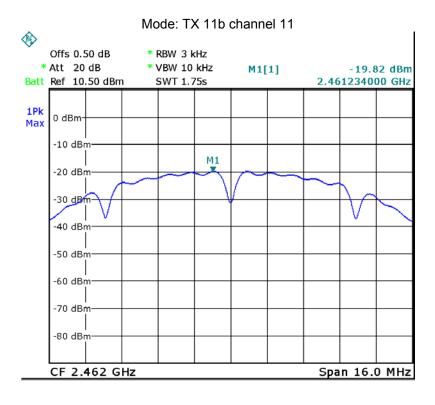
Test mode : TX 11n HT40		
Power Spectral (dBm per 3kHz)		
2422MHz 2437MHz 2452MHz		
-30.28 -30.08 -30.05		
Limit		
8dBm per 3kHz		

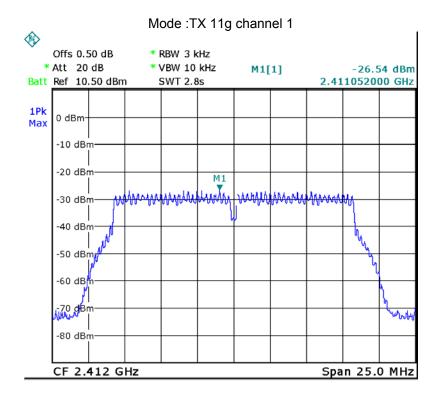
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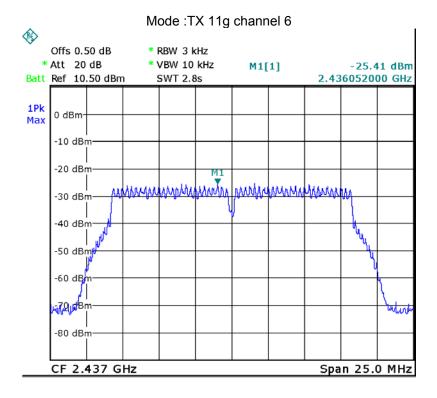
Test mode : TX BT BLE		
Power Spectral (dBm per 3kHz)		
2402MHz 2440MHz 2480MHz		
-17.94 -17.94 -18.48		-18.48
Limit		
8dBm per 3kHz		

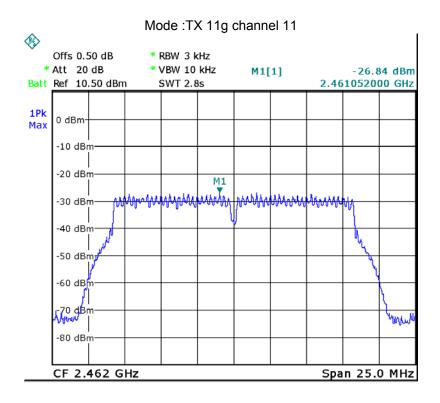


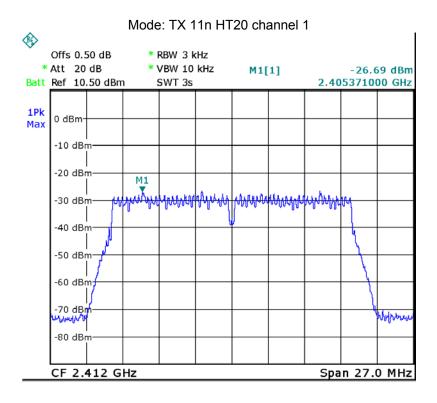


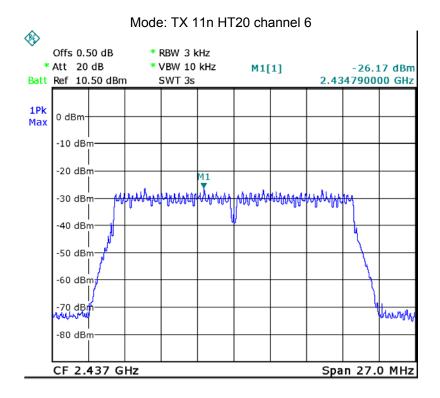


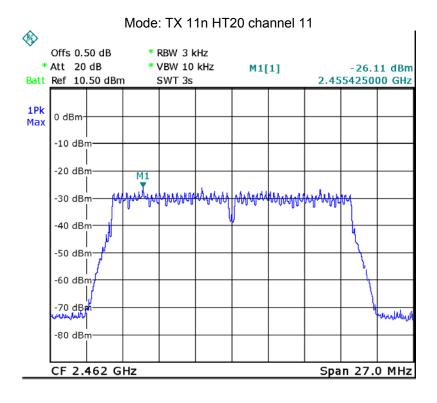


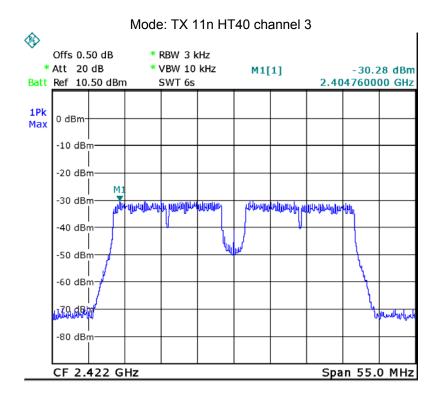


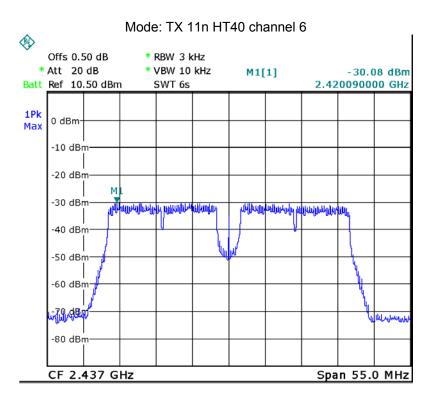


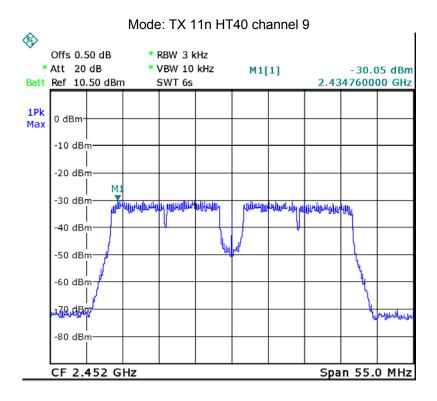


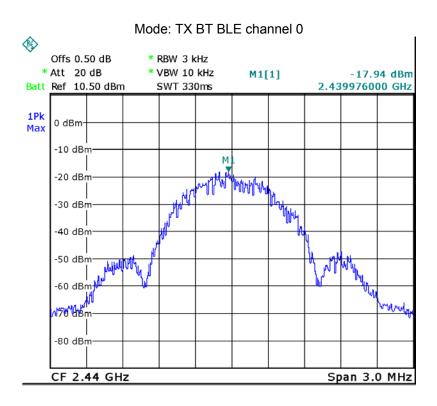


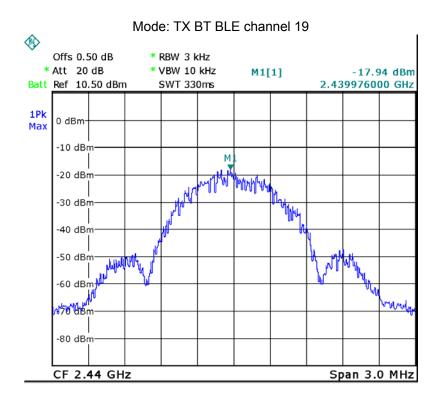


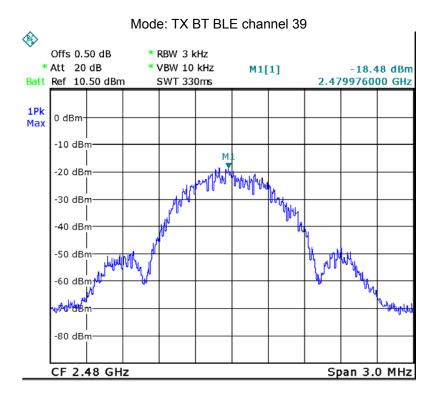












13 Antenna Requirement

According to the FCC Part 15 Paragraph 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. This product has an integrated antenna fulfill the requirement of this section.

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14 RF Exposure

Remark: refer to SAR test report: WTS15S0730783E.

=====End of Report=====