TEST REPORT

Reference No. WTS14S1220964-2E FCC ID.....: 2ADTE-DG800 Applicant Shenzhen KVD Communication Equipment 13C, Block C, Shenzhen Electronic Technology Building, Shennan Address Middle Road, Futian District, Shenzhen, China Manufacturer : The same as above Address The same as above Product Name Mobile Phone Model No. **VALENCIA DG800 DOOGEE** Brand..... FCC CFR47 Part 15 Section 15.247:2014 Standards: Date of Receipt sample..... Dec.09, 2014 Date of Test Dec.10 2014 ~ Jan.12, 2015

Remarks:

Date of Issue

Test Result

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.

Prepared By: Waltek Services (Shenzhen) Co., Ltd.

Address: 1/F., Fukangtai Building, West Baima Road, Songgang Street, Baoan District, Shenzhen, Guangdong, China

Tel:+86-755-83551033 Fax:+86-755-83552400

Compiled by: Approved by:

Jan.19, 2015

Pass *

Zero Zhou / Project Engineer

Philo Zhong / Manager

Parks zhong

Reference No.: WTS14S1220964-2E Page 2 of 66

2 Test Summary

Test Items	Test Requirement	Result
	15.247	
Radiated Emissions	15.205(a)	PASS
	15.209(a)	
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

3 Contents

			Page			
1	COVE	R PAGE	1			
2	TEST	SUMMARY	2			
3	CONT	TENTS	3			
4	GENE	RAL INFORMATION	4			
	4.2 E 4.3 C 4.4 T	GENERAL DESCRIPTION OF E.U.T. DETAILS OF E.U.T. CHANNEL LIST TEST MODE TEST FACILITY				
5	EQUIF	PMENT USED DURING TEST	8			
	5.1 E 5.2 E 5.3 N	EQUIPMENTS LIST DESCRIPTION OF SUPPORT UNITS MEASUREMENT UNCERTAINTY TEST EQUIPMENT CALIBRATION				
6	CONDUCTED EMISSION					
	6.2 E 6.3 N	E.U.T. OPERATION EUT SETUP MEASUREMENT DESCRIPTION CONDUCTED EMISSION TEST RESULT	10 10			
7	RADIATED EMISSIONS					
	7.2 7 7.3 8 7.4 7 7.5 0	EUT OPERATION				
8	BAND	DEDGE MEASUREMENT	31			
	8.2	TEST PRODUCE TEST RESULT	32			
9	6 DB I	BANDWIDTH MEASUREMENT	37			
		TEST PROCEDURE:				
10	MAXII	MUM PEAK OUTPUT POWER	46			
	10.1 10.2	TEST PROCEDURE: TEST RESULT:				
11	POWE	ER SPECTRAL DENSITY	56			
	11.1 11.2	TEST PROCEDURE: TEST RESULT:	56			
12	ANTE	NNA REQUIREMENT	65			
12	DEEV	/DOCUME				

Reference No.: WTS14S1220964-2E Page 4 of 66

4 General Information

4.1 General Description of E.U.T.

Product Name :Mobile Phone

Model No. :VALENCIA DG800

Model Description : N/A

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

GPRS/EGPRS Class : 12

WCDMA Band(s) : FDD Band I/V

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

Bluetooth Version : Bluetooth v4.0 with BLE

GPS : Support

NFC : N/A

Hardware Version : Z869H

Software Version : DOOGEE_VALENCIA_DG800

4.2 Details of E.U.T.

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

GSM/GPRS 900: 925-960MHz DCS 1800: 1805-1880MHz PCS 1900: 1850~1910MHz WCDMA Band I: 1920-1980MHz WCDMA Band V: 824~849MHz

WiFi:

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

Bluetooth: 2402-2480MHz GPS: 1.57GHz

Max. RF output power : GSM 850: 32.68dBm

PCS1900: 29.88dBm

WCDMA Band V: 22.63dBm

WiFi: 9.36dBm Bluetooth: -0.21dBm

Type of Modulation : GSM,GPRS: GMSK

WCDMA: QPSK WiFi: CCK, OFDM

Bluetooth: GFSK, Pi/4 DQPSK,8DPSK

Reference No.: WTS14S1220964-2E Page 5 of 66

Antenna installation : GSM/WCDMA: internal permanent antenna

WiFi/Bluetooth: internal permanent antenna

Antenna Gain : GSM 850: -4.0dBi

PCS1900: -4.0dBi

WCDMA Band V: -4.0dBi

WiFi: -1.0dBi

Bluetooth: -1.0dBi

Technical Data Battery DC 3.7V 2000mAh

DC 5V, 1.0A, charging from adapter

(Adapter Input: 100-240V~50/60Hz, 0.15A)

Adapter Manufacture: Shenzhen KVD Communication Equipment

Model No.: TN-050100UZ

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 No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (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 Dawdwidth	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
Dood Edwa	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
Transmittor 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 Tests Garried Gut Grider 1 GO part 10.241						
Test Items	Mode	Data Rate	Channel	TX/RX		
Maximum Peak Output Power	BT BLE	1 Mbps	1/19/39	TX		
Power Spectral Density	BT BLE	1 Mbps	1/19/39	TX		
6dB Bandwidth	BT BLE	1 Mbps	1/19/39	TX		
Band Edge	BT BLE	1 Mbps	1/19/39	TX		
Transmitter Spurious Emissions	BT BLE	1 Mbps	1/19/39	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)		

Reference No.: WTS14S1220964-2E Page 7 of 66

4.5 Test Facility

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

IC – Registration No.: 7760A-1

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-1,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

5.1 Equipments List								
Condu	cted Emissions Test \$	Site 1#	†	1		1		
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date		
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.15,2014	Sep.14,2015		
2.	LISN	R&S	ENV216	101215	Sep.15,2014	Sep.14,2015		
3.	Cable	Тор	TYPE16(3.5M)	-	Sep.15,2014	Sep.14,2015		
Condu	cted Emissions Test \$	Site 2#						
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 Sei	mi-anechoic Chamber	for Radiation Emis	ssions Test site	1#				
Item	Equipment Manufacturer Mo		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.19,2014	Apr.18,2015		
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.19,2014	Apr.18,2015		
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2014	Apr.18,2015		
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2014	Mar.16,2015		
8	Coaxial Cable (above 1GHz)	Тор	1GHz-25GHz	EW02014-7	Apr.10,2014	Apr.09,2015		
9	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2014	Apr.18,2015		
3m Seı	mi-anechoic Chamber	for Radiation Emis	ssions Test site	2#				
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date		
1	Test Receiver	R&S	ESCI	101296	Sep.15,2014	Sep.14,2015		
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Sep.15,2014	Sep.14,2015		
3	Amplifier	Compliance pirection systems inc	PAP-0203	PAP-0203 22024		Sep.14,2015		

4	Cable	HUBER+SUHNER	CBL2 525178		Sep.15,2014	Sep.14,2015					
RF Co	RF Conducted Testing										
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date					
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Sep.15,2014	Sep.14,2015					
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	Sep.15,2014	Sep.14,2015					
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	Sep.15,2014	Sep.14,2015					

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
Headphone	Qisheng	S-325	N/A

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.

Reference No.: WTS14S1220964-2E Page 10 of 66

6 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.4:2003

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class/Severity: Class B

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

56 dB_μV between 0.5MHz & 5MHz60 dB_μV between 5MHz & 30MHz

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

6.1 E.U.T. Operation

Operating Environment:

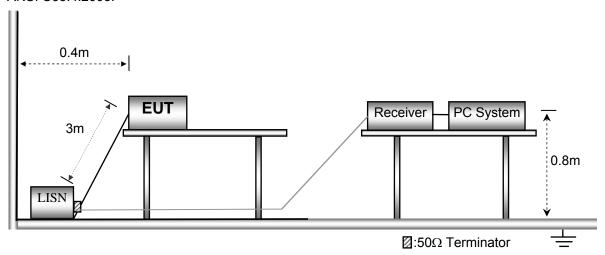
Temperature: 21.7°C Humidity: 51.6 % RH Atmospheric Pressure: 101.2kPa

EUT Operation:

The test was performed in transmitting 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 C63.4:2003.



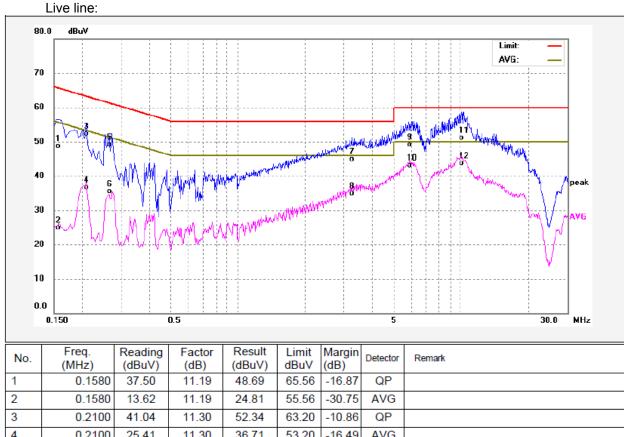
6.3 Measurement Description

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.

6.4 Conducted Emission Test Result

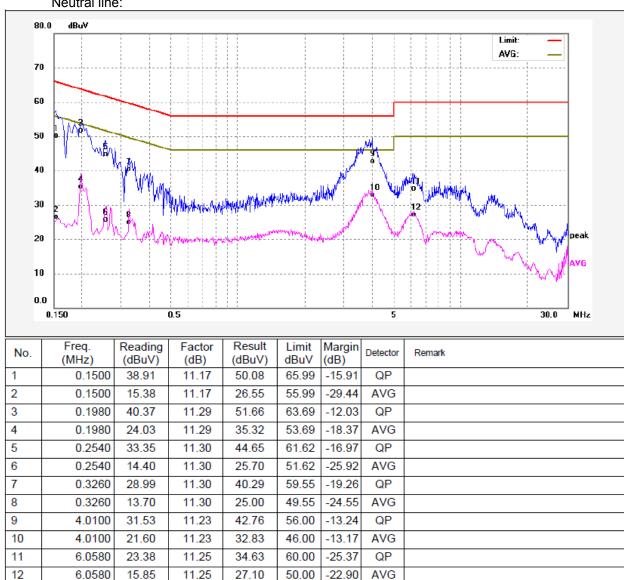
An initial pre-scan was performed on the live and neutral lines.

Worst Mode: transmitting mode (Adapter Operation)



No.	Freq. (MHz)	(dBuV)	Factor (dB)	(dBuV)	dBuV	(dB)	Detector	Remark
1	0.1580	37.50	11.19	48.69	65.56	-16.87	QP	
2	0.1580	13.62	11.19	24.81	55.56	-30.75	AVG	
3	0.2100	41.04	11.30	52.34	63.20	-10.86	QP	
4	0.2100	25.41	11.30	36.71	53.20	-16.49	AVG	
5	0.2660	37.80	11.30	49.10	61.24	-12.14	QP	
6	0.2660	24.30	11.30	35.60	51.24	-15.64	AVG	
7	3.2540	33.71	11.22	44.93	56.00	-11.07	QP	
8	3.2540	23.77	11.22	34.99	46.00	-11.01	AVG	
9	5.8380	37.77	11.25	49.02	60.00	-10.98	QP	
10	5.8380	31.88	11.25	43.13	50.00	-6.87	AVG	
11	10.0740	39.88	11.31	51.19	60.00	-8.81	QP	
12	10.0740	32.43	11.31	43.74	50.00	-6.26	AVG	

Neutral line:



Reference No.: WTS14S1220964-2E Page 13 of 66

7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.4:2003

Test Result: PASS
Measurement Distance: 3m

Limit:

F	Field Stren	ngth	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: 22.7 °C Humidity: 52.1 % RH Atmospheric Pressure: 101.2kPa

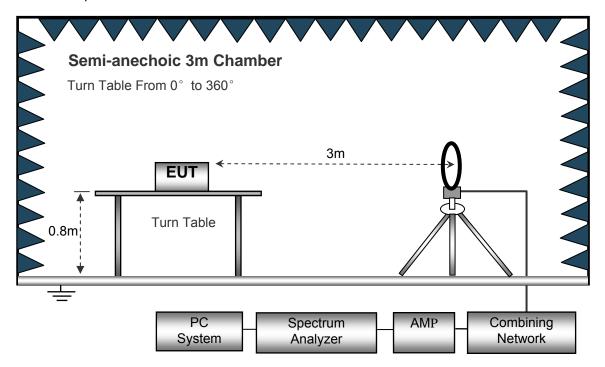
EUT Operation:

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

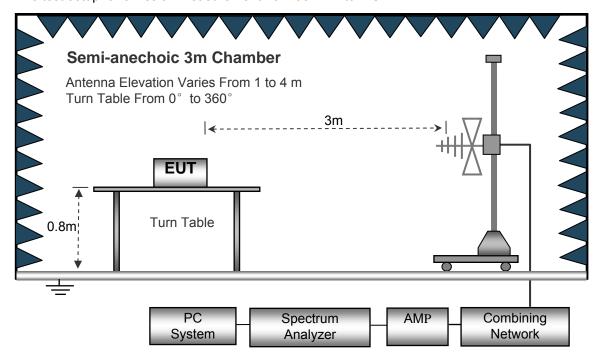
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003.

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

Below 30MHz		
	Sweep Speed	. Auto
	IF Bandwidth	.10kHz
	Video Bandwidth	.10kHz
	Resolution Bandwidth	.10kHz
30MHz ~ 1GH:	z	
	Sweep Speed	. Auto
	Detector	.PK
	Resolution Bandwidth	.100kHz
	Video Bandwidth	.300kHz
Above 1GHz		
	Sweep Speed	. Auto
	Detector	.PK
	Resolution Bandwidth	.1MHz
	Video Bandwidth	.3MHz
	Detector	.Ave.
	Resolution Bandwidth	.1MHz
	Video Bandwidth	.10Hz

Reference No.: WTS14S1220964-2E Page 16 of 66

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

Reference No.: WTS14S1220964-2E Page 17 of 66

7.6 Summary of Test Results

Wifi:

Test Frequency : 32.768kHz ~ 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 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)
			11b: Lo	w Chann	el 2412 l	ИНz			
199.38	22.18	PK	235	1.9	Н	11.13	33.31	43.50	-10.19
199.38	21.02	PK	355	1.8	V	11.13	32.15	43.50	-11.35
4824.00	54.67	PK	38	1.3	V	-1.06	53.61	74.00	-20.39
4824.00	46.97	Ave	38	1.3	V	-1.06	45.91	54.00	-8.09
7236.00	42.92	PK	11	1.4	Н	1.33	44.25	74.00	-29.75
7236.00	41.87	Ave	11	1.4	Н	1.33	43.20	54.00	-10.80
2349.23	45.39	PK	263	1.1	V	-13.19	32.20	74.00	-41.80
2349.23	39.40	Ave	263	1.1	V	-13.19	26.21	54.00	-27.79
2366.57	44.85	PK	183	1.1	Н	-13.14	31.71	74.00	-42.29
2366.57	38.55	Ave	183	1.1	Н	-13.14	25.41	54.00	-28.59
2484.82	43.40	PK	117	1.7	V	-13.08	30.32	74.00	-43.68
2484.82	38.96	Ave	117	1.7	V	-13.08	25.88	54.00	-28.12

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)
			11b: Mid	dle Chan	nel 243	7MHz			
199.38	25.71	PK	218	1.9	Н	11.13	36.84	43.50	-6.66
199.38	23.06	PK	50	1.8	V	11.13	34.19	43.50	-9.31
4874.00	53.97	PK	236	1.4	V	-0.62	53.35	74.00	-20.65
4874.00	48.04	Ave	236	1.4	V	-0.62	47.42	54.00	-6.58
7311.00	44.46	PK	254	1.9	Н	2.21	46.67	74.00	-27.33
7311.00	40.14	Ave	254	1.9	Н	2.21	42.35	54.00	-11.65
2324.33	45.73	PK	238	1.3	V	-13.19	32.54	74.00	-41.46
2324.33	38.92	Ave	238	1.3	V	-13.19	25.73	54.00	-28.27
2375.82	44.71	PK	239	1.6	Н	-13.14	31.57	74.00	-42.43
2375.82	37.93	Ave	239	1.6	Н	-13.14	24.79	54.00	-29.21
2495.19	43.74	PK	138	1.4	V	-13.08	30.66	74.00	-43.34
2495.19	38.77	Ave	138	1.4	V	-13.08	25.69	54.00	-28.31

_	Receiver	D 4 4	Turn	RX An	tenna	Corrected		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)
			11b: Hi	gh Chanr	nel 2462	MHz			
199.38	22.71	PK	292	1.5	Н	11.13	33.84	43.50	-9.66
199.38	24.74	PK	130	1.3	V	11.13	35.87	43.50	-7.63
4924.00	55.23	PK	252	1.2	V	-0.24	54.99	74.00	-19.01
4924.00	46.82	Ave	252	1.2	V	-0.24	46.58	54.00	-7.42
7386.00	44.38	PK	17	1.0	Н	2.84	47.22	74.00	-26.78
7386.00	39.62	Ave	17	1.0	Н	2.84	42.46	54.00	-11.54
2342.73	46.46	PK	15	1.1	V	-13.19	33.27	74.00	-40.73
2342.73	39.72	Ave	15	1.1	V	-13.19	26.53	54.00	-27.47
2382.75	42.18	PK	225	1.2	Н	-13.14	29.04	74.00	-44.96
2382.75	38.09	Ave	225	1.2	Н	-13.14	24.95	54.00	-29.05
2484.53	44.80	PK	304	1.3	V	-13.08	31.72	74.00	-42.28
2484.53	36.74	Ave	304	1.3	٧	-13.08	23.66	54.00	-30.34

_	Receiver	D 1 1	Turn	RX An	tenna	Corrected		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			
199.38	22.74	PK	19	1.9	Н	11.13	33.87	43.50	-9.63
199.38	27.49	PK	130	1.9	V	11.13	38.62	43.50	-4.88
4824.00	56.44	PK	245	2.0	V	-1.06	55.38	74.00	-18.62
4824.00	47.25	Ave	245	2.0	V	-1.06	46.19	54.00	-7.81
7236.00	43.66	PK	40	1.8	Н	1.33	44.99	74.00	-29.01
7236.00	39.57	Ave	40	1.8	Н	1.33	40.90	54.00	-13.10
2346.17	46.82	PK	119	1.6	V	-13.19	33.63	74.00	-40.37
2346.17	39.62	Ave	119	1.6	V	-13.19	26.43	54.00	-27.57
2368.35	44.02	PK	46	1.9	Н	-13.14	30.88	74.00	-43.12
2368.35	37.95	Ave	46	1.9	Н	-13.14	24.81	54.00	-29.19
2494.96	42.53	PK	92	1.3	V	-13.08	29.45	74.00	-44.55
2494.96	38.84	Ave	92	1.3	V	-13.08	25.76	54.00	-28.24

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			
199.38	23.74	PK	274	1.1	Н	11.13	34.87	43.50	-8.63
199.38	25.05	PK	91	1.3	V	11.13	36.18	43.50	-7.32
4874.00	52.95	PK	69	1.9	V	-0.62	52.33	74.00	-21.67
4874.00	45.18	Ave	69	1.9	V	-0.62	44.56	54.00	-9.44
7311.00	44.14	PK	44	1.2	Н	2.21	46.35	74.00	-27.65
7311.00	40.33	Ave	44	1.2	Н	2.21	42.54	54.00	-11.46
2323.89	45.55	PK	58	1.6	V	-13.19	32.36	74.00	-41.64
2323.89	39.18	Ave	58	1.6	V	-13.19	25.99	54.00	-28.01
2358.02	43.49	PK	173	1.3	Н	-13.14	30.35	74.00	-43.65
2358.02	38.03	Ave	173	1.3	Н	-13.14	24.89	54.00	-29.11
2485.08	44.85	PK	84	1.3	V	-13.08	31.77	74.00	-42.23
2485.08	37.99	Ave	84	1.3	V	-13.08	24.91	54.00	-29.09

_	Receiver	D 1 1	Turn	RX An	tenna	Corrected	0 1 1	FCC F 15.247/20	
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: Hig	gh Chann	el 2462	MHz			
199.38	23.90	PK	186	1.7	Н	11.13	35.03	43.50	-8.47
199.38	20.36	PK	86	1.9	V	11.13	31.49	43.50	-12.01
4924.00	55.50	PK	31	1.0	V	-0.24	55.26	74.00	-18.74
4924.00	45.11	Ave	31	1.0	V	-0.24	44.87	54.00	-9.13
7386.00	46.52	PK	42	1.7	Н	2.84	49.36	74.00	-24.64
7386.00	43.53	Ave	42	1.7	Н	2.84	46.37	54.00	-7.63
2326.42	45.43	PK	279	1.6	V	-13.19	32.24	74.00	-41.76
2326.42	38.03	Ave	279	1.6	V	-13.19	24.84	54.00	-29.16
2368.97	44.70	PK	188	1.1	Н	-13.14	31.56	74.00	-42.44
2368.97	38.50	Ave	188	1.1	Н	-13.14	25.36	54.00	-28.64
2492.30	42.12	PK	205	1.9	V	-13.08	29.04	74.00	-44.96
2492.30	37.81	Ave	205	1.9	V	-13.08	24.73	54.00	-29.27

F	Receiver	Detector	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)	(dB) (dBµV/m)	(dBµV/m)	(dB)
			n20: Lo	w Chann	el 2412l	MHz			
199.38	22.16	PK	258	1.8	Н	11.13	33.29	43.50	-10.21
199.38	24.43	PK	251	1.0	V	11.13	35.56	43.50	-7.94
4824.00	55.98	PK	85	1.3	V	-1.06	54.92	74.00	-19.08
4824.00	45.94	Ave	85	1.3	V	-1.06	44.88	54.00	-9.12
7236.00	46.78	PK	350	1.1	Н	1.33	48.11	74.00	-25.89
7236.00	42.99	Ave	350	1.1	Н	1.33	44.32	54.00	-9.68
2326.97	46.79	PK	179	1.9	V	-13.19	33.60	74.00	-40.40
2326.97	38.55	Ave	179	1.9	V	-13.19	25.36	54.00	-28.64
2364.59	42.64	PK	123	1.3	Н	-13.14	29.50	74.00	-44.50
2364.59	37.80	Ave	123	1.3	Н	-13.14	24.66	54.00	-29.34
2499.42	44.97	PK	170	1.4	V	-13.08	31.89	74.00	-42.11
2499.42	37.33	Ave	170	1.4	V	-13.08	24.25	54.00	-29.75

	Receiver	D 1 1	Turn	RX An	tenna	Corrected		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			
199.38	21.99	PK	151	1.7	Н	11.13	33.12	43.50	-10.38
199.38	25.77	PK	189	1.7	V	11.13	36.90	43.50	-6.60
4874.00	56.06	PK	225	1.2	V	-0.62	55.44	74.00	-18.56
4874.00	45.65	Ave	225	1.2	V	-0.62	45.03	54.00	-8.97
7311.00	45.33	PK	99	1.9	Н	2.21	47.54	74.00	-26.46
7311.00	43.95	Ave	99	1.9	Н	2.21	46.16	54.00	-7.84
2340.57	46.40	PK	292	1.9	V	-13.19	33.21	74.00	-40.79
2340.57	38.26	Ave	292	1.9	V	-13.19	25.07	54.00	-28.93
2367.22	44.33	PK	245	1.3	Н	-13.14	31.19	74.00	-42.81
2367.22	36.41	Ave	245	1.3	Н	-13.14	23.27	54.00	-30.73
2489.00	43.11	PK	178	1.3	V	-13.08	30.03	74.00	-43.97
2489.00	37.39	Ave	178	1.3	V	-13.08	24.31	54.00	-29.69

I 		-							
Fraguana	Receiver	Detector	Turn	RX An	tenna	Corrected	Carrested	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: Hiç	gh Chann	el 2462	MHz			
199.38	21.67	PK	123	1.9	Н	11.13	32.80	43.50	-10.70
199.38	23.49	PK	119	1.1	V	11.13	34.62	43.50	-8.88
4924.00	56.32	PK	304	1.6	V	-0.24	56.08	74.00	-17.92
4924.00	44.88	Ave	304	1.6	V	-0.24	44.64	54.00	-9.36
7386.00	48.39	PK	277	1.0	Н	2.84	51.23	74.00	-22.77
7386.00	44.51	Ave	277	1.0	Н	2.84	47.35	54.00	-6.65
2332.54	45.21	PK	211	1.5	V	-13.19	32.02	74.00	-41.98
2332.54	39.26	Ave	211	1.5	V	-13.19	26.07	54.00	-27.93
2379.20	43.96	PK	166	1.8	Н	-13.14	30.82	74.00	-43.18
2379.20	38.74	Ave	166	1.8	Н	-13.14	25.60	54.00	-28.40
2485.93	42.72	PK	200	1.6	V	-13.08	29.64	74.00	-44.36
2485.93	38.09	Ave	200	1.6	V	-13.08	25.01	54.00	-28.99

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			
199.38	22.92	PK	117	1.2	Н	11.13	34.05	43.50	-9.45
199.38	24.93	PK	257	1.4	V	11.13	36.06	43.50	-7.44
4844.00	55.62	PK	225	1.5	V	-1.06	54.56	74.00	-19.44
4844.00	46.44	Ave	225	1.5	V	-1.06	45.38	54.00	-8.62
7266.00	48.24	PK	328	1.8	Н	1.33	49.57	74.00	-24.43
7266.00	42.44	Ave	328	1.8	Н	1.33	43.77	54.00	-10.23
2329.40	45.86	PK	19	1.8	V	-13.19	32.67	74.00	-41.33
2329.40	37.58	Ave	19	1.8	V	-13.19	24.39	54.00	-29.61
2350.36	42.62	PK	176	2.0	Н	-13.14	29.48	74.00	-44.52
2350.36	36.27	Ave	176	2.0	Н	-13.14	23.13	54.00	-30.87
2485.27	43.81	PK	239	1.6	V	-13.08	30.73	74.00	-43.27
2485.27	37.70	Ave	239	1.6	V	-13.08	24.62	54.00	-29.38

Eroguenes	Receiver	Datastan	Turn	RX An	tenna	Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
Frequency	Reading	Detector	table Angle	Height	Polar			Limit	Margin
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
	n40: Middle Channel 2437MHz								
199.38	23.90	PK	97	1.3	Н	11.13	35.03	43.50	-8.47
199.38	23.27	PK	135	1.6	V	11.13	34.40	43.50	-9.10
4874.00	53.96	PK	244	1.1	V	-0.62	53.34	74.00	-20.66
4874.00	47.72	Ave	244	1.1	V	-0.62	47.10	54.00	-6.90
7311.00	50.52	PK	248	1.1	Н	2.21	52.73	74.00	-21.27
7311.00	41.82	Ave	248	1.1	Н	2.21	44.03	54.00	-9.97
2348.25	46.66	PK	302	1.6	V	-13.19	33.47	74.00	-40.53
2348.25	37.43	Ave	302	1.6	V	-13.19	24.24	54.00	-29.76
2370.07	42.08	PK	102	1.6	Н	-13.14	28.94	74.00	-45.06
2370.07	36.10	Ave	102	1.6	Н	-13.14	22.96	54.00	-31.04
2496.01	43.31	PK	31	1.5	V	-13.08	30.23	74.00	-43.77
2496.01	37.35	Ave	31	1.5	V	-13.08	24.27	54.00	-29.73

Fraguanay	Receiver	Datastan	Turn	RX An	tenna	a Corrected	Commonto d		FCC Part 15.247/209/205	
Frequency	Reading	Detector	l l Factor l	Corrected Amplitude	Limit	Margin				
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
	n40: High Channel 2452MHz									
199.38	23.53	PK	317	1.4	Н	11.13	34.66	43.50	-8.84	
199.38	24.85	PK	321	1.7	V	11.13	35.98	43.50	-7.52	
4904.00	57.22	PK	131	1.3	V	-0.24	56.98	74.00	-17.02	
4904.00	46.38	Ave	131	1.3	V	-0.24	46.14	54.00	-7.86	
7356.00	47.84	PK	184	1.6	Н	2.84	50.68	74.00	-23.32	
7356.00	42.24	Ave	184	1.6	Н	2.84	45.08	54.00	-8.92	
2324.07	45.65	PK	142	1.3	V	-13.19	32.46	74.00	-41.54	
2324.07	38.21	Ave	142	1.3	V	-13.19	25.02	54.00	-28.98	
2384.48	43.78	PK	129	1.3	Н	-13.14	30.64	74.00	-43.36	
2384.48	37.83	Ave	129	1.3	Н	-13.14	24.69	54.00	-29.31	
2488.72	44.30	PK	169	1.3	V	-13.08	31.22	74.00	-42.78	
2488.72	36.03	Ave	169	1.3	V	-13.08	22.95	54.00	-31.05	

Test Frequency: 18GHz~25GHz

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

Reference No.: WTS14S1220964-2E Page 29 of 66

BT BLE:

Test Frequency : 32.768kHz ~ 30MHz

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

Test Frequency : 30MHz ~ 18GHz

	Receiver		Turn	RX Antenna		Corrected	Corrected		
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)
Low Channel 2402MHz									
199.38	22.21	QP	236	1.2	Н	11.13	33.34	43.50	-10.16
199.38	20.53	QP	254	1.1	V	11.13	31.66	43.50	-11.84
4804.00	47.22	PK	214	1.3	V	-1.06	46.16	74.00	-27.84
4804.00	42.84	Ave	214	1.3	V	-1.06	41.78	54.00	-12.22
7206.00	41.11	PK	184	1.1	Н	1.33	42.44	74.00	-31.56
7206.00	35.95	Ave	184	1.1	Н	1.33	37.28	54.00	-16.72

	Receiver		Turn	RX Antenna		Corrected	Corrected		
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)
	Middle Channel 2440MHz								
199.38	23.14	QP	168	1.7	Н	11.13	34.27	43.50	-9.23
199.38	24.44	QP	147	1.5	V	11.13	35.57	43.50	-7.93
4880.00	49.66	PK	121	1.5	V	-0.62	49.04	74.00	-24.96
4880.00	43.40	Ave	121	1.5	V	-0.62	42.78	54.00	-11.22
7320.00	42.71	PK	116	1.5	Н	2.21	44.92	74.00	-29.08
7320.00	38.85	Ave	116	1.5	Н	2.21	41.06	54.00	-12.94

	Receiver		Turn	RX An	tenna	Corrected	Corrected		
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)
	High Channel 2480MHz								
199.38	23.10	QP	242	1.2	Н	11.13	34.23	43.50	-9.27
199.38	18.75	QP	83	1.8	V	11.13	29.88	43.50	-13.62
4960.00	49.54	PK	349	1.2	V	-0.24	49.30	74.00	-24.70
4960.00	43.24	Ave	349	1.2	V	-0.24	43.00	54.00	-11.00
7440.00	39.18	PK	120	1.5	Н	2.84	42.02	74.00	-31.98
7440.00	38.63	Ave	120	1.5	Н	2.84	41.47	54.00	-12.53

Test Frequency: 18GHz~25GHz

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

Reference No.: WTS14S1220964-2E Page 31 of 66

8 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 v03r02 06/05/2014

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

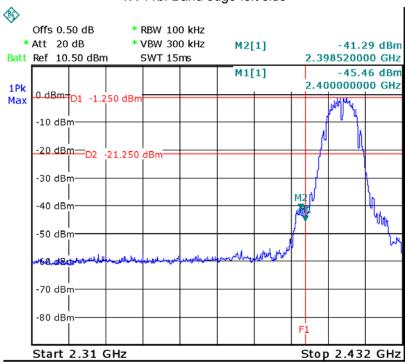
8.1 Test Produce

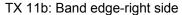
- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable.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

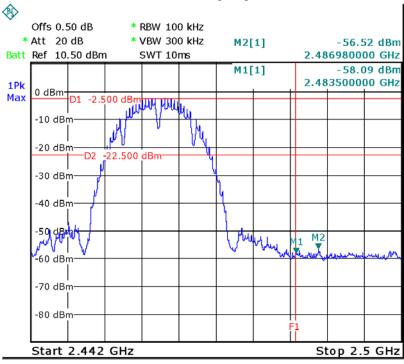
8.2 Test Result

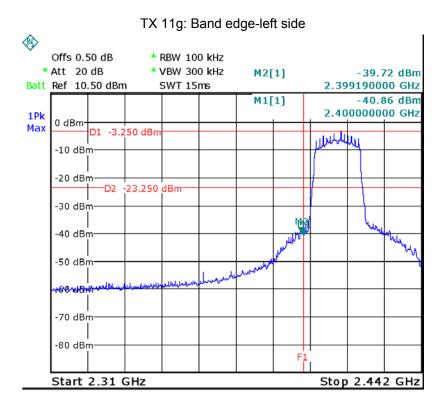
Test result plots shown as follows:

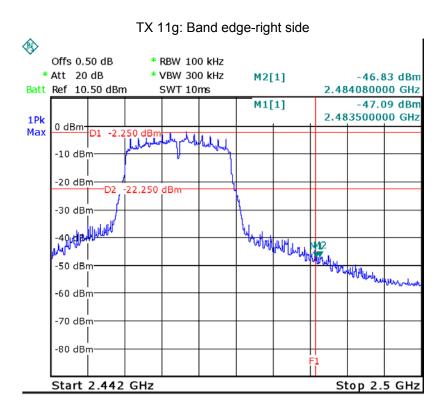
TX 11b: Band edge-left side



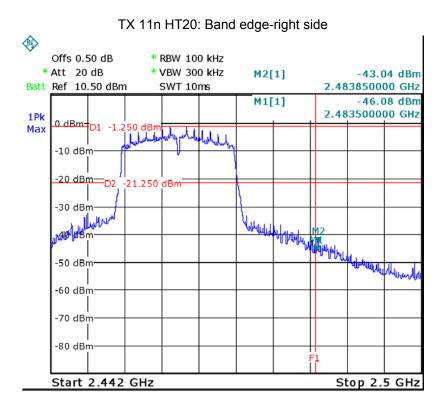




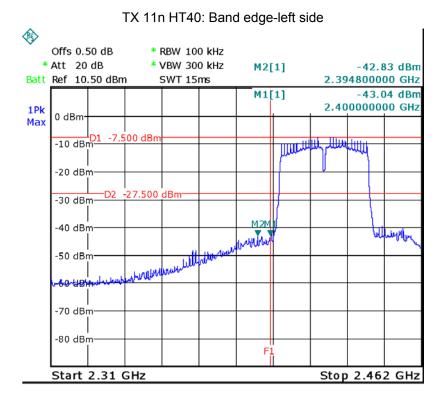




TX 11n HT20: Band edge-left side Offs 0.50 dB * RBW 100 kHz * Att 20 dB * VBW 300 kHz M2[1] -35.61 dBm Batt Ref 10.50 dBm SWT 15ms 2.398760000 GHz -36.08 dBm M1[1] 2.400000000 GHz 1Pk 0 dBm Max D1 -2.750 dBm u uhluu -10 dBm--20 dBm--22.750 dBm= -30 dBm -40 dBm -50 dBm -70 dBm -80 dBm-Start 2.31 GHz Stop 2.432 GHz

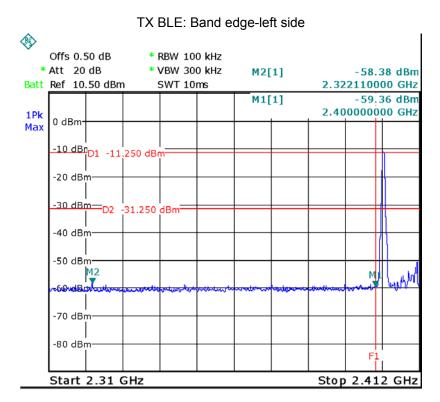


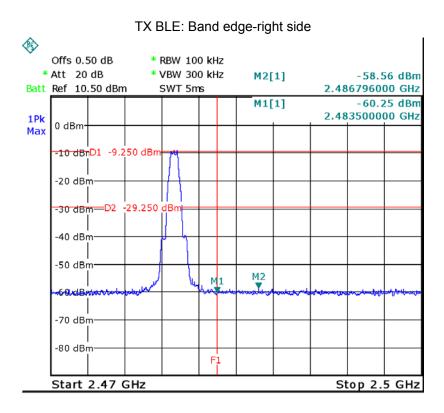
Waltek Services (Shenzhen) Co.,Ltd. http://www.waltek.com.cn



TX 11n HT40: Band edge-right side Offs 0.50 dB * RBW 100 kHz * Att 20 dB * VBW 300 kHz M2[1] -43.40 dBm Batt Ref 10.50 dBm SWT 10ms 2.487440000 GHz M1[1] -47.17 dBm 2.483500000 GHz 1Pk 0 dBm Max -10 dBm -20 dBm-.000 dBm -30 dBm--40 dBm plantalpraty with the 400000 -50 dBm--60 dBm -70 dBm--80 dBm Start 2.412 GHz Stop 2.5 GHz

Waltek Services (Shenzhen) Co.,Ltd. http://www.waltek.com.cn





Reference No.: WTS14S1220964-2E Page 37 of 66

9 6 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 v03r02 06/05/2014

9.1 Test Procedure:

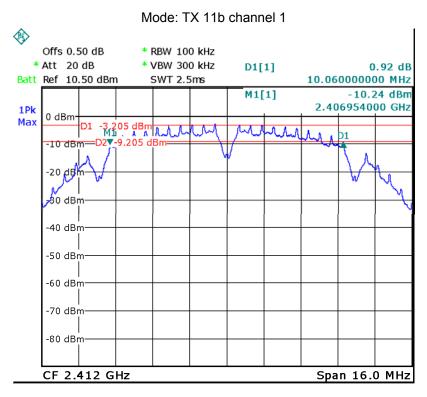
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

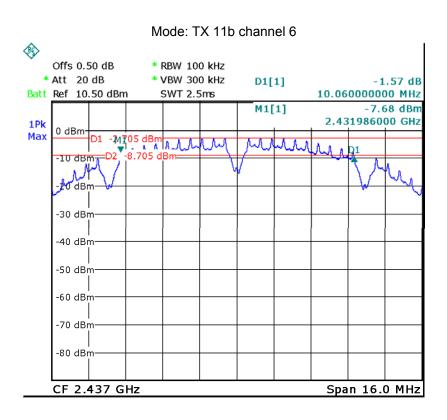
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

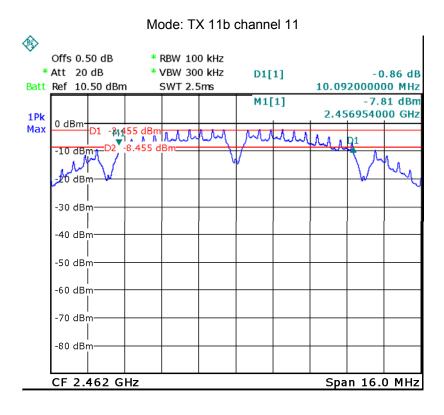
9.2 Test Result:

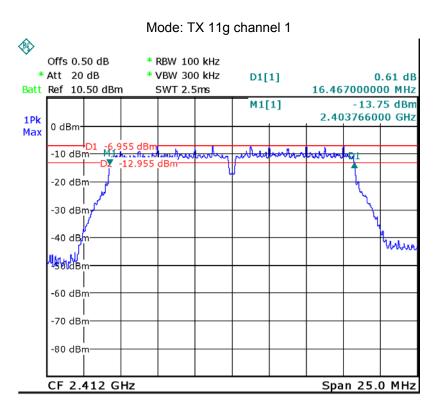
Operation mode	Bandwidth (MHz)		
	Channel 1	Channel 6	Channel 11
TX 11b	10.060	10.060	10.092
	Channel 1	Channel 6	Channel 11
TX 11g	16.467	16.467	16.467
TX 11n HT20	Channel 1	Channel 6	Channel 11
	17.677	17.677	17.677
	Channel 3	Channel 6	Channel 9
TX 11n HT40	35.570	35.610	35.680
	Channel 1	Channel 20	Channel 40
BT BLE	0.653	0.659	0.659

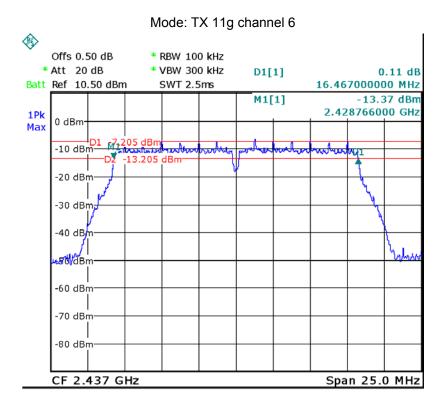
Test result plot as follows:

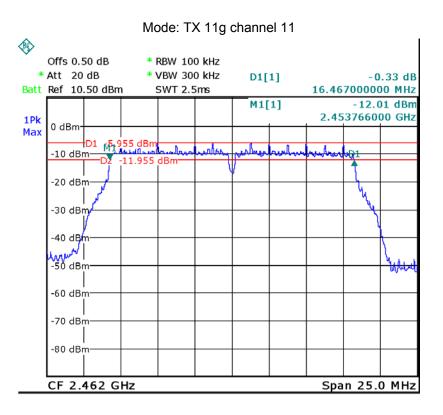


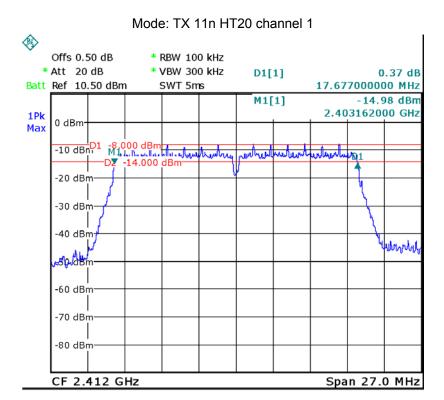


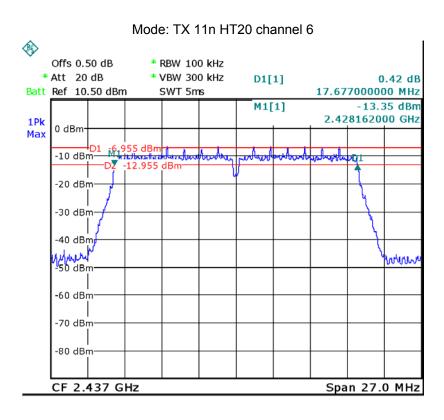


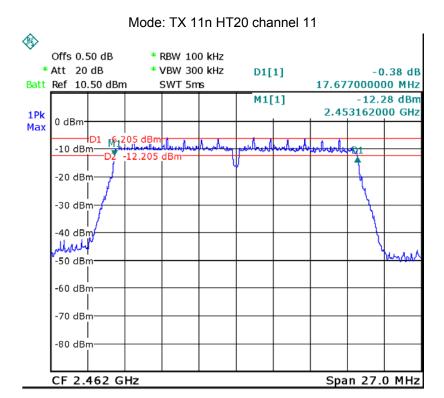


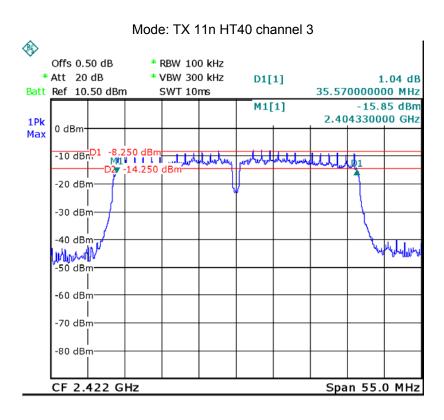


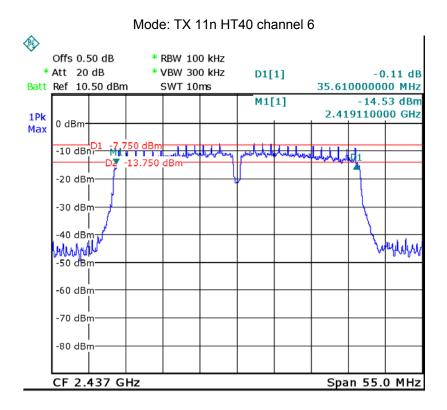


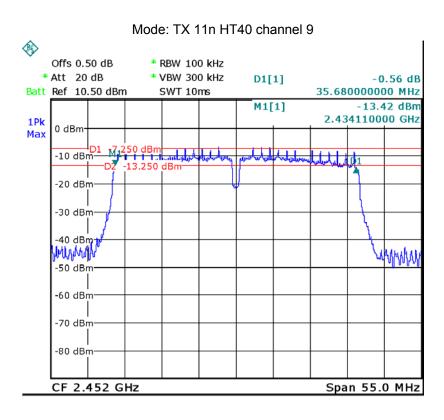


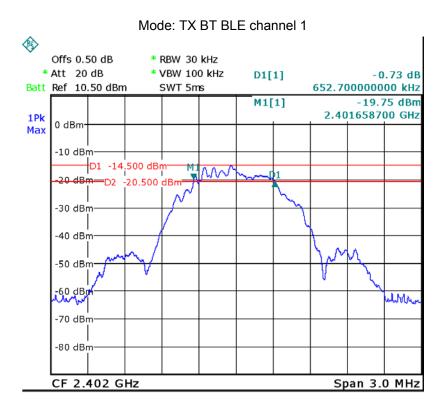


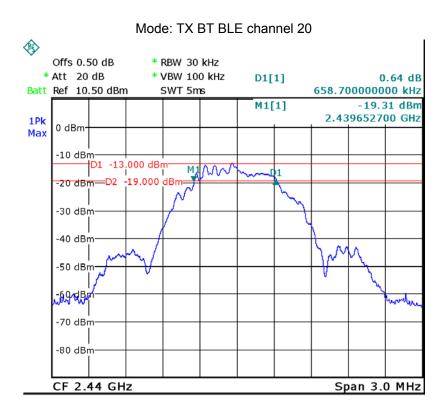


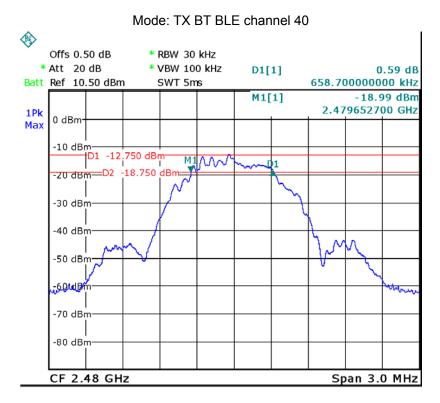












Reference No.: WTS14S1220964-2E Page 46 of 66

10 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 v03r02 06/05/2014

10.1 Test Procedure:

KDB 558074 D01 v03r02 06/05/2014

section 9.1.1

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

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 \geq 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.

10.2 Test Result:

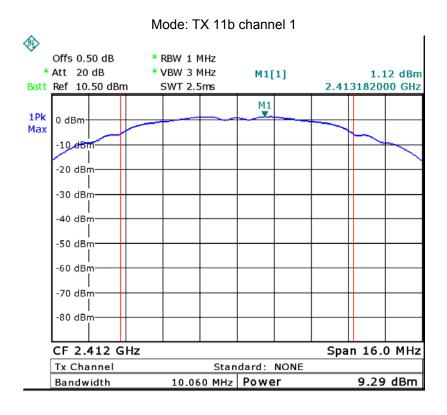
Test mode :TX 11b		
10 Maximum Peak Output Power (dBm)		
2412MHz 2437MHz 2462MHz		
9.29 9.31 9.16		
Limit: 1W/30dBm		
1W/30dBm		

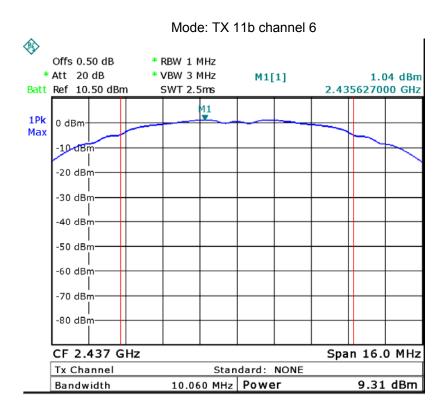
Test mode :TX 11g		
10 Maximum Peak Output Power (dBm)		
2412MHz 2437MHz 2462MHz		
9.35 9.23 9.36		9.36
Limit		
1W/30dBm		

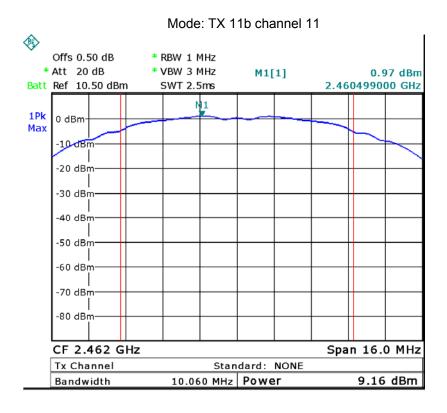
Test mode :TX 11n HT20		
10 Maximum Peak Output Power (dBm)		
2412MHz 2437MHz 2462MHz		
9.27 9.22 9.19		9.19
Limit		
1W/30dBm		

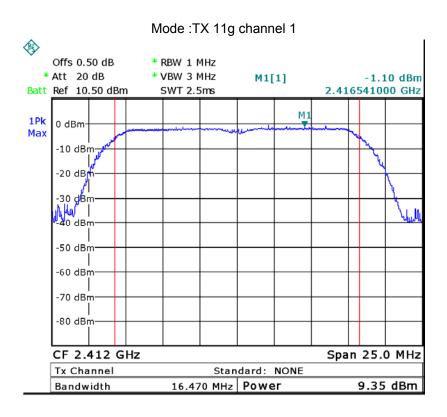
Test mode: TX 11n HT40		
10 Maximum Peak Output Power (dBm)		
2422MHz 2437MHz 2452MHz		
9.24 9.33 9.35		
Limit		
1W/30dBm		

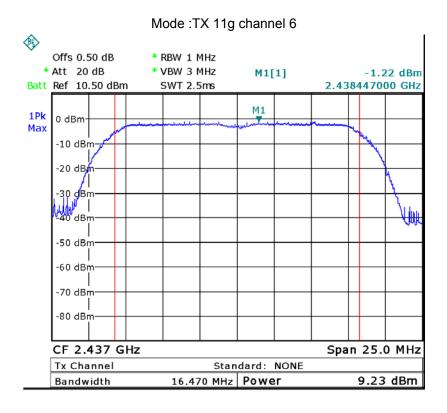
Test mode : TX BT BLE		
10 Maximum Peak Output Power (dBm)		
2402MHz 2440MHz 2480MHz		
-9.48 -8.24 -8.20		
Limit		
1W/30dBm		

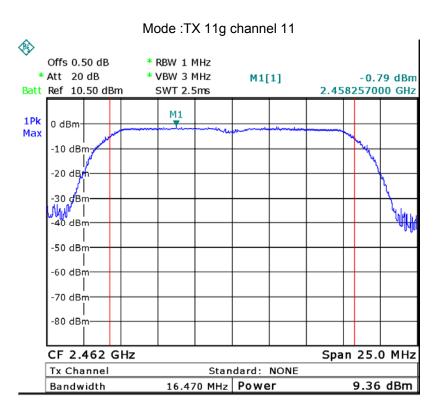


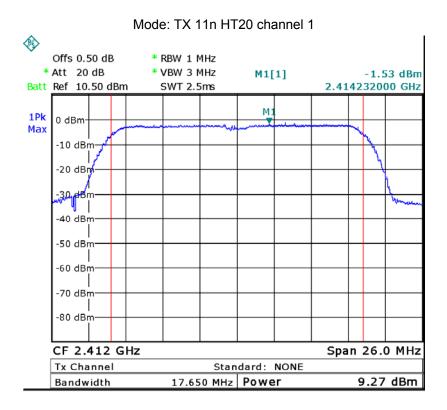


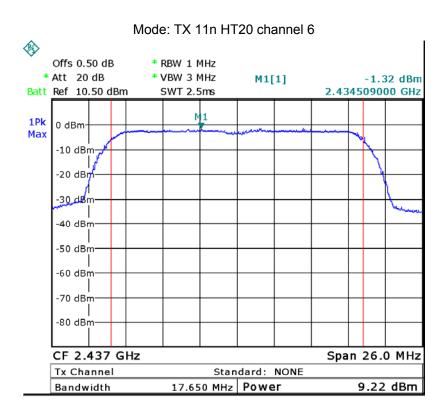


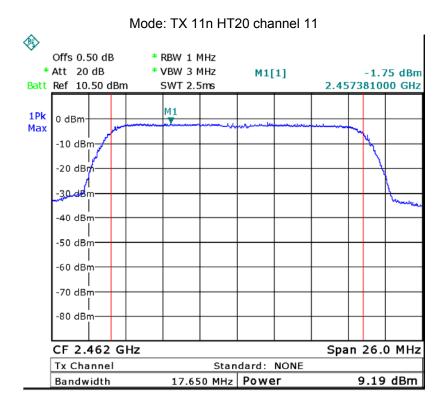


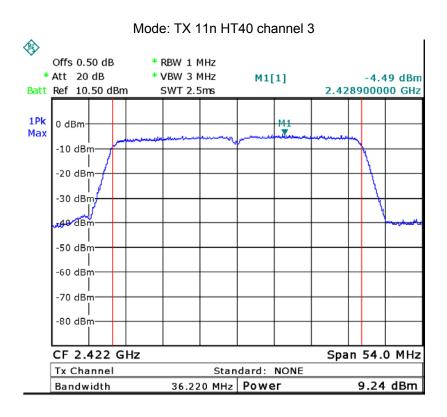


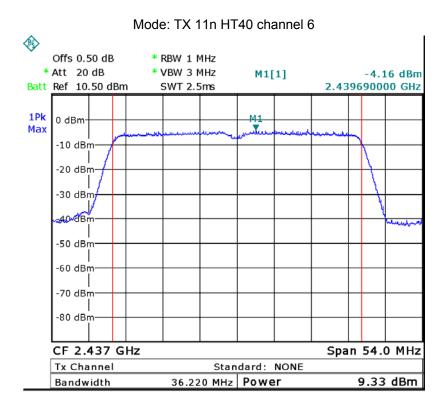


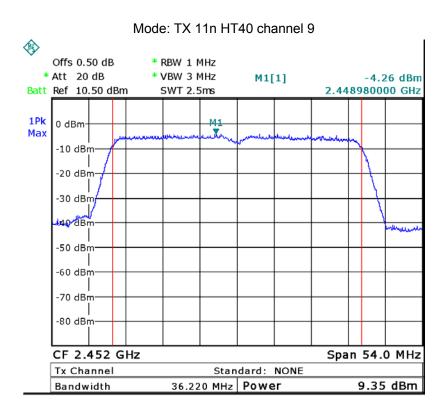


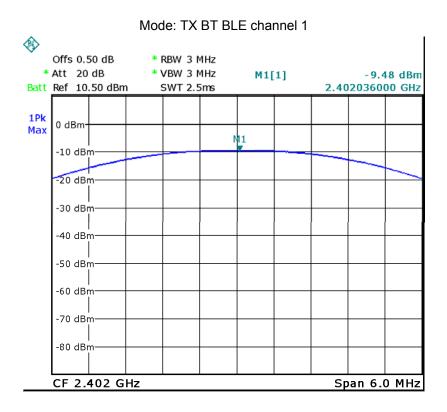


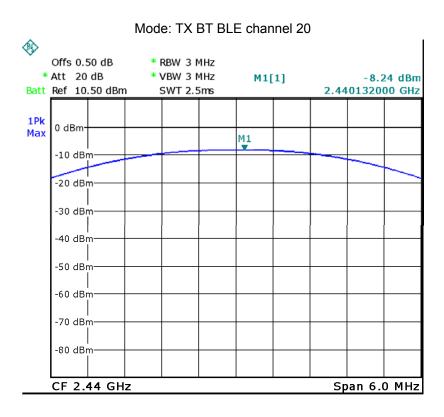


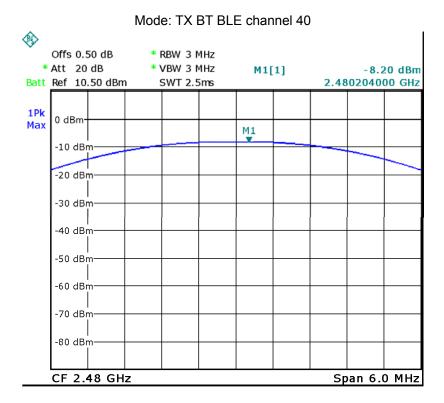












Reference No.: WTS14S1220964-2E Page 56 of 66

11 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 v03r02 06/05/2014

11.1 Test Procedure:

KDB 558074 D01 v03r02 06/05/2014 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.

11.2 Test Result:

Test mode :TX 11b		
Power Spectral (dBm per 3kHz)		
2412MHz 2437MHz 2462MHz		
-17.08 -16.41 -16.11		
Limit:		
8dBm per 3kHz		

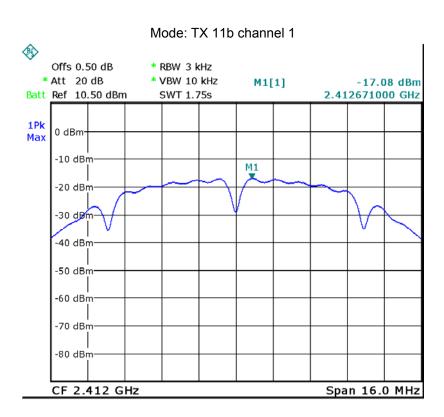
Test mode :TX 11g		
Power Spectral (dBm per 3kHz)		
2412MHz 2437MHz 2462MHz		
-17.90 -17.28 -16.83		
Limit		
8dBm per 3kHz		

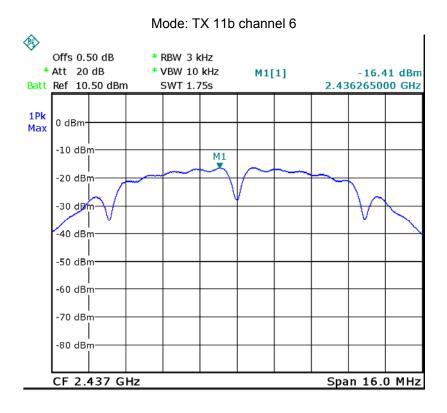
Test mode :TX 11n HT20		
Power Spectral (dBm per 3kHz)		
2412MHz 2437MHz 2462MHz		
-17.83 -17.52 -16.72		
Limit		
8dBm per 3kHz		

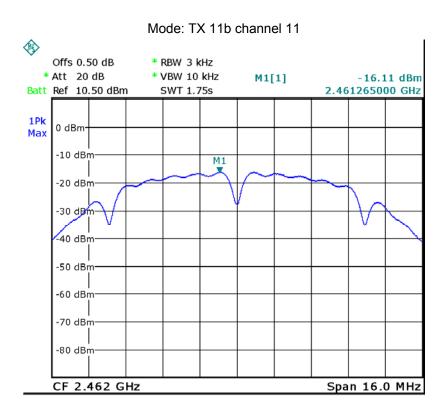
Test mode : TX 11n HT40		
Power Spectral (dBm per 3kHz)		
2422MHz 2437MHz 2452MHz		
-22.93 -22.07 -20.92		
Limit		
8dBm per 3kHz		

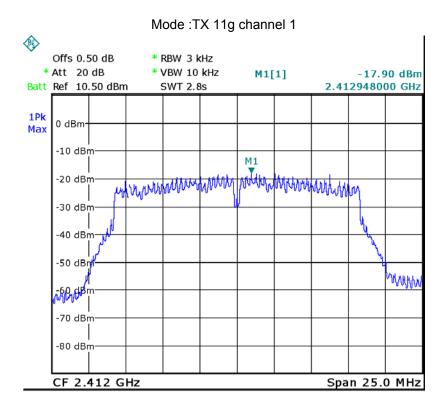
Reference No.: WTS14S1220964-2E Page 57 of 66

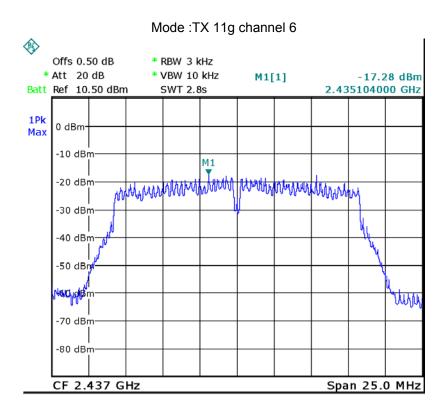
Test mode : TX BT BLE		
Power Spectral (dBm per 3kHz)		
2402MHz 2440MHz 2480MHz		
-25.96 -24.12 -24.02		
Limit		
8dBm per 3kHz		

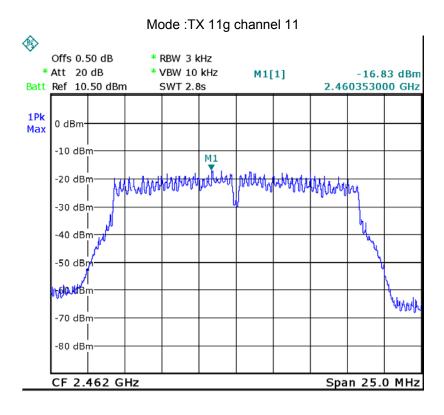


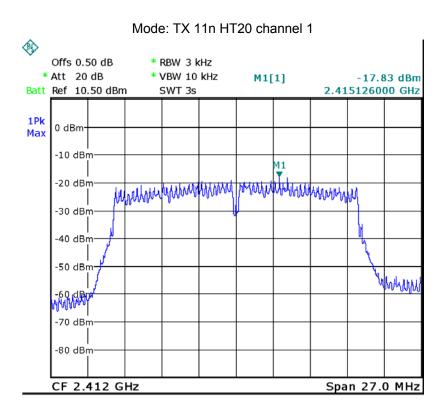


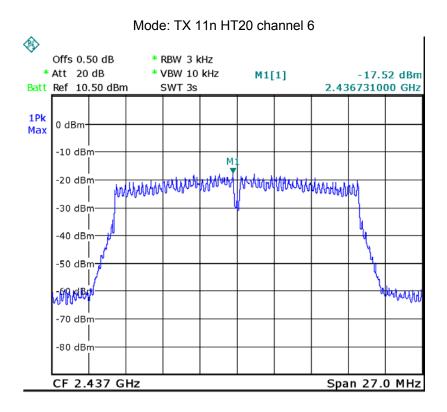


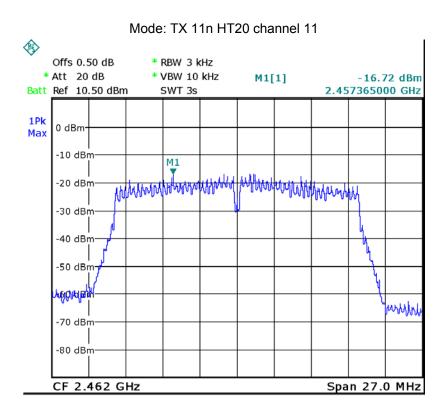


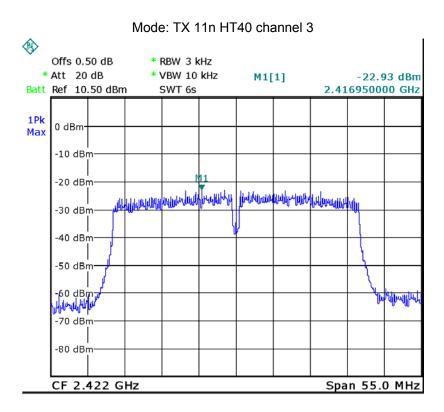


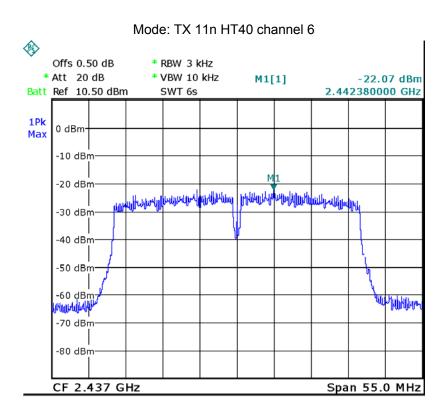


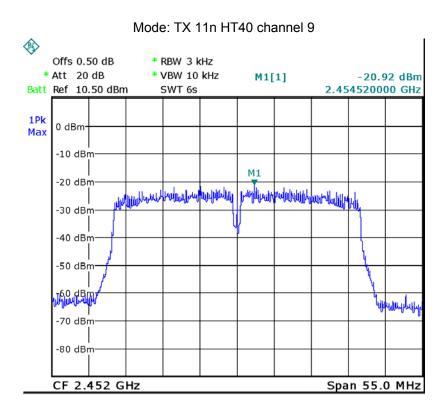


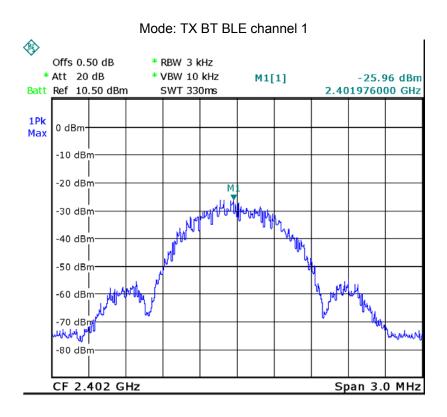


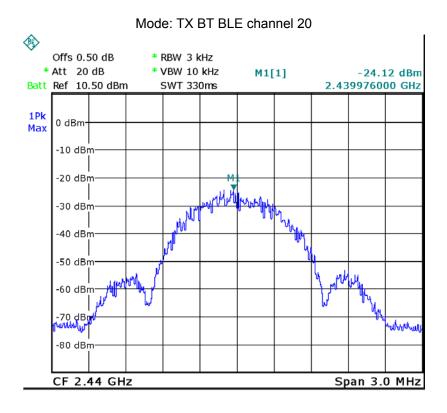


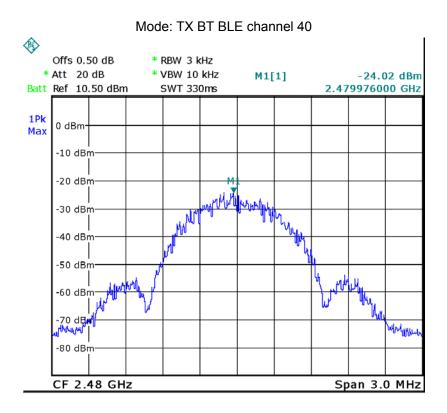












12 Antenna Requirement

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 a integrated antenna fulfil the requirement of this section.

Reference No.: WTS14S1220964-2E Page 66 of 66

13 RF Exposure

Remark: refer to SAR test report: STR14128112H.

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