TEST REPORT

Reference No. : WTS17S1093892-2E

FCC ID : V5PA80

Applicant.....: PAX Technology Limited

China

Manufacturer: PAX Computer Technology (Shenzhen) Co., Ltd.

4/F, No.3 Building, Software Park, Second Central Science-Tech

Address...... : Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.

China

Product.....: Countertop Payment Terminal

Model(s). : A80

Brand Name : PAX

Standards...... : FCC CFR47 Part 15.247:2017

Date of Receipt sample : 2017-10-31

Date of Test : 2017-11-01 to 2017-12-19

Date of Issue..... : 2017-12-20

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.

Prepared By:

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oved by:

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2 Laboratories Introduction

Waltek Services Test Group Ltd. is one of the largest and the most comprehensive third party testing organizations in China, our headquarter located in Shenzhen (CNAS Registration No. L3110, A2LA Certificate Number: 4243.01) and have branches in Foshan (CNAS Registration No. L6478), Dongguan (CNAS Registration No. L9950), Zhongshan, Suzhou (CNAS Registration No. L7754), Ningbo and Hong Kong, Our test capability covered four large fields: safety test. Electronic Magnetic Compatibility(EMC), reliability and energy performance, Chemical test. Meanwhile, Waltek has got recognition as registration and accreditation laboratory from EMSD (Electrical and Mechanical Services Department), and American Energy star, FCC(The Federal Communications Commission), CPSC(Consumer Product Safety Commission), CEC(California energy efficiency), IC(Industry Canada) and ELI(Efficient Lighting Initiative). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as UL, Intertek(ETL-SEMKO), CSA, TÜV Rheinland, TÜV SÜD, etc. As a professional, comprehensive, justice international test organization, we still keep the scientific and rigorous work attitude to help each client satisfy the international standards and assist their product enter into globe market smoothly.

Waltek Services (Shenzhen) Co., Ltd.

A. Accreditations for Conformity Assessment (International)

Country/Region	Accreditation Body	Scope	Note
USA		FCC ID \ DOC \ VOC	1
Canada		IC ID \ VOC	2
Japan	CNAS	MIC-T \ MIC-R	-
Europe	(Registration No.: L3110)	EMCD \ RED	-
Taiwan	A2LA	NCC	-
Hong Kong	(Certificate No.: 4243.01)	OFCA	-
Australia		RCM	-
India		WPC	-
Thailand	International Services	NTC	-
Singapore		IDA	-

Note:

- 1. FCC Designation No.: CN1201. Test Firm Registration No.: 523476.
- 2. IC Canada Registration No.: 7760A

B. TCBs and Notify Bodies Recognized Testing Laboratory.

Recognized Testing Laboratory of	Notify body number

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TUV Dheinland	
TUV Rheinland	+
Intertek	Ontional
TUV SUD	Optional.
SGS	
Phoenix Testlab GmbH	0700
Element Materials Technology Warwick Ltd	0891
Timco Engineering, Inc.	1177
Eurofins Product Service GmbH	0681

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4 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTS17S10938 92-2E	2017-10-31	2017-11-01 to 2017-12- 19	2017-12-20	original	1	Valid

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5 General Information

5.1 General Description of E.U.T.

Product: Countertop Payment Terminal

Model(s): A80

Model Description: N/A

Wi-Fi Specification: 2.4G-802.11b/g/n HT20
Bluetooth Version: Bluetooth v4.0 with BLE

GPS: N/A

NFC: Support

Hardware Version: A80-MAIN-B

Software Version: G510_V0D.00.45

Highest frequency

(Exclude Radio):

Storage Location: Internal Storage

Note: N/A

5.2 Details of E.U.T.

Operation Frequency: WiFi:

802.11b/g/n HT20: 2412~2462MHz

Bluetooth: 2402~2480MHz

NFC:13.56 MHz

Max. RF output power: WiFi(2.4G): 21.12dBm

Bluetooth: -3.42dBm

BLE:9.20dBm

Type of Modulation: WiFi: CCK, OFDM

Bluetooth: GFSK, Pi/4 DQPSK, 8DPSK

NFC: ASK, 2ASK

Antenna installation: WiFi/Bluetooth: internal permanent antenna

NFC: Loop antenna

Antenna Gain: WiFi(2.4G): 1.5dBi

Bluetooth: 1.5dBi

Ratings: Battery DC 7.4V, 720mAh

DC 9V, 1.0A, charging from adapter

(Adapter Input: 100-240V~50/60Hz 0.6A)

Adapter: Manufacturer: SHENZHEN HONOR ELECTRONIC CO.,LTD

Model No.: ADS-18SG-09-2 09009G

5.3 Channel List

WIFI

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (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

5.4 Test Mode

Table 1 Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
	802.11b	1 Mbps	1/6/11	TX
Maximum Peak Output Power	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11b	1 Mbps	1/6/11	TX
Power Spectral Density	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11b	1 Mbps	1/6/11	TX
6dB Bandwidth	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11b	1 Mbps	1/6/11	TX
Band Edge	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11b	1 Mbps	1/6/11	TX
Transmitter Spurious Emissions	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX

Table 2 Tests Carried Out Under FCC part 15.247

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 .

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6 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	1.1307(b)(1)	PASS	
(Exposure of Humans to RF Fields)	1.1337(8)(1)	17400	

7 Equipment Used during Test

7.1 Equipments List

Condu	cted Emissions Test S	Sito 1#				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	2017-09-12	2018-09-11
2.	LISN	R&S	ENV216	101215	2017-09-12	2018-09-11
3.	Cable	Тор	TYPE16(3.5M)	-	2017-09-12	2018-09-11
Condu	cted Emissions Test S	Site 2#				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	2017-09-12	2018-09-11
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	2017-09-12	2018-09-11
3.	Limiter	York	MTS-IMP-136	261115-001- 0024	2017-09-12	2018-09-11
4.	Cable	LARGE	RF300	-	2017-09-12	2018-09-11
3m Ser	mi-anechoic Chamber	for Radiation Emis	sions Test site	1#		
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP	100091	2017-04-29	2018-04-28
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	2017-04-09	2018-04-08
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2017-04-09	2018-04-08
4	Coaxial Cable (below 1GHz)	Тор	TYPE16(13M)	-	2017-09-12	2018-09-11
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2017-04-09	2018-04-08
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2017-04-09	2018-04-08
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2017-04-13	2018-04-12
8	Coaxial Cable (above 1GHz)	Тор	1GHz-25GHz	EW02014-7	2017-04-13	2018-04-12
3m Ser	mi-anechoic Chamber	for Radiation Emis	sions Test site	2#		
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2017-04-13	2018-04-12
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2017-04-09	2018-04-08
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	2017-04-13	2018-04-12
4	Cable	HUBER+SUHNER	CBL2	525178	2017-04-13	2018-04-12

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	2017-09-12	2018-09-11		
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	2017-09-12	2018-09-11		
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	2017-09-12	2018-09-11		

7.2 Description of Support Units

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

7.3 Measurement Uncertainty

Parameter	Uncertainty						
Conducted Emission	± 3.64 dB(AC mains 150KHz~30MHz)						
Radiated Spurious Emissions	± 5.08 dB (Bilog antenna 30M~1000MHz)						
Radiated Spurious Emissions	± 5.47 dB (Horn antenna 1000M~25000MHz)						
Radio Frequency	± 1 x 10 ⁻⁷ Hz						
RF Power	± 0.42 dB						
RF Power Density	± 0.7dB						
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)						
Confidence interval: 95%. Confidence fa	actor:k=2						

7.4 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.

8 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.10:2013

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class/Severity: Class B

Limit: Frequency (MHz) Limit (dBµV)

Quasi-peak Average

0.15 to 0.5

66 to 56*

Feb to 46*

r requericy (Wir IZ)	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

8.1 E.U.T. Operation

Operating Environment:

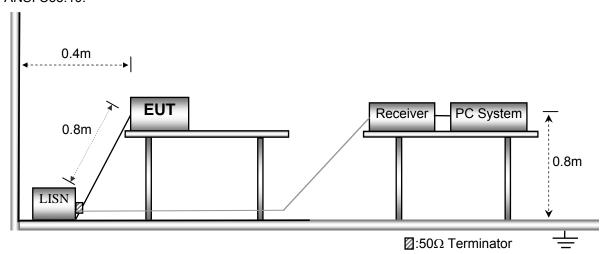
Temperature: 21.5 °C
Humidity: 51.9 % RH
Atmospheric Pressure: 101.2kPa

EUT Operation:

The test was performed in TX transmitting mode, the worst data were shown in the report.

8.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10.



8.3 Measurement Description

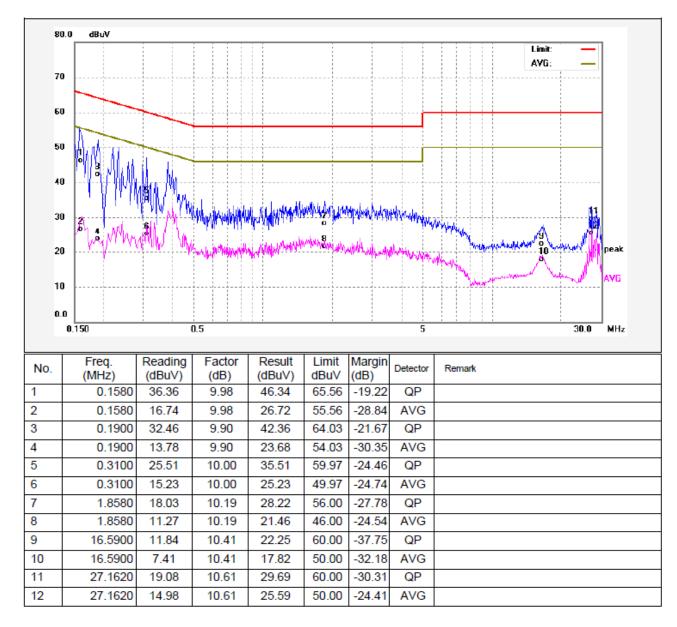
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

8.4 Conducted Emission Test Result

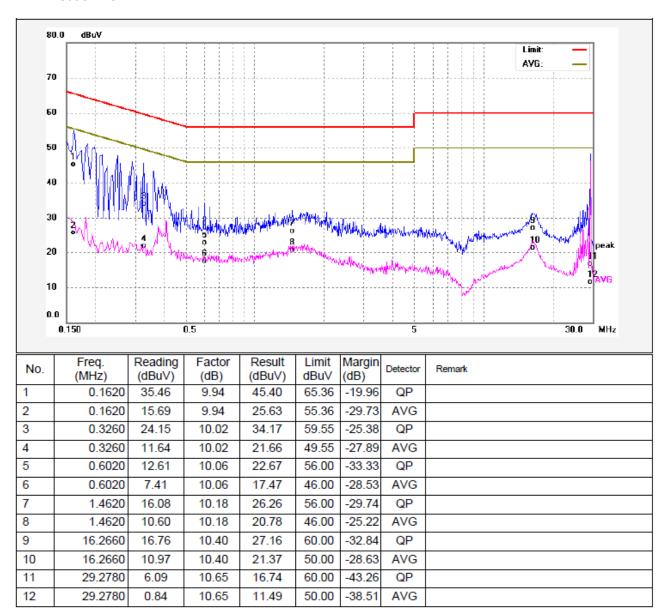
An initial pre-scan was performed on the live and neutral lines.

Worst Mode: WIFI mode (802.11b mode low channel)

Live line:

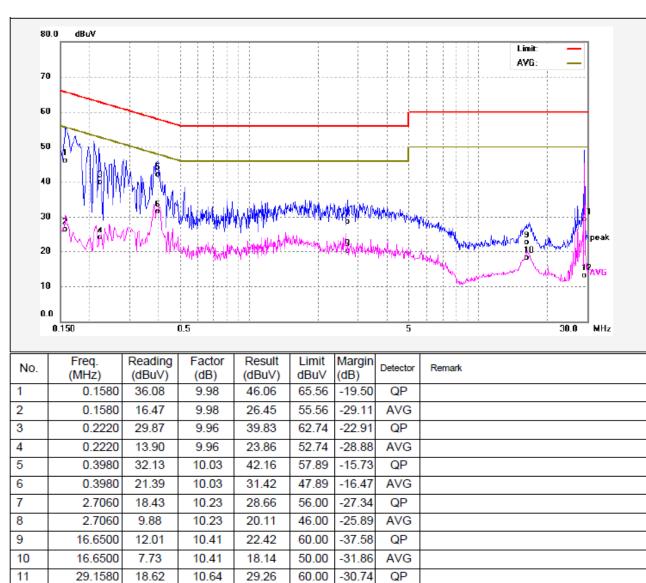


Neutral line:



Worst Mode: BLE mode (low channel)

Live line:



50.00

-36.99

AVG

2.37

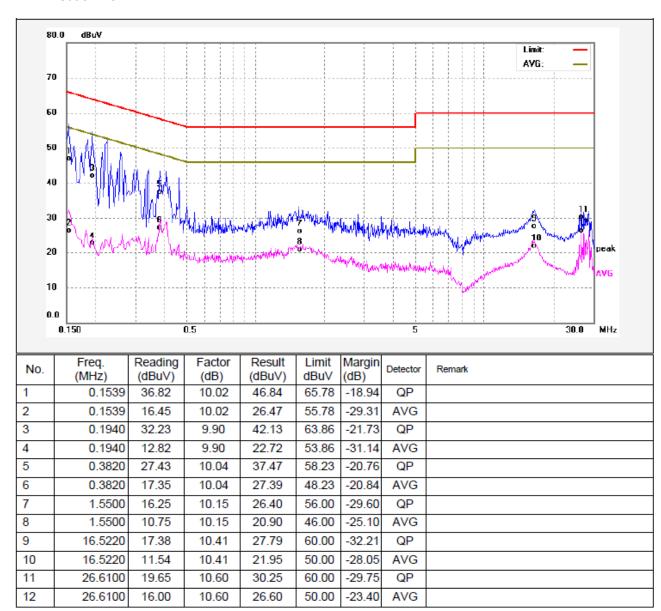
29.1580

12

10.64

13.01

Neutral line:



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9 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.10:2013

Test Result: PASS
Measurement Distance: 3m

Limit:

Lillit.	Field Stre	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⁾		

9.1 EUT Operation

Operating Environment:

Temperature: $23.5 \, ^{\circ}\text{C}$ Humidity: $52.1 \, \% \, \text{RH}$

Atmospheric Pressure: 101.2kPa

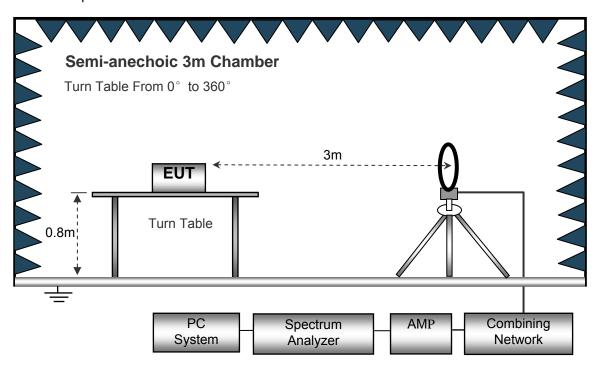
EUT Operation:

The test was performed in TX transmitting mode, the test data were shown in the report.

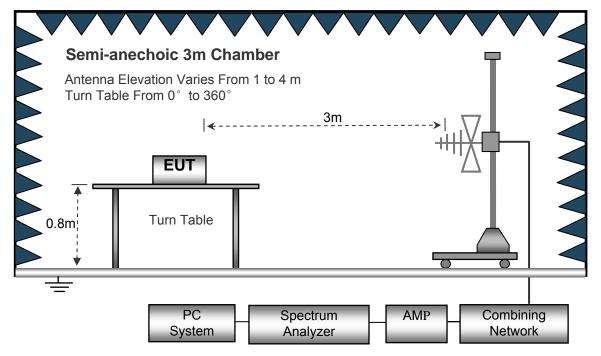
9.2 Test Setup

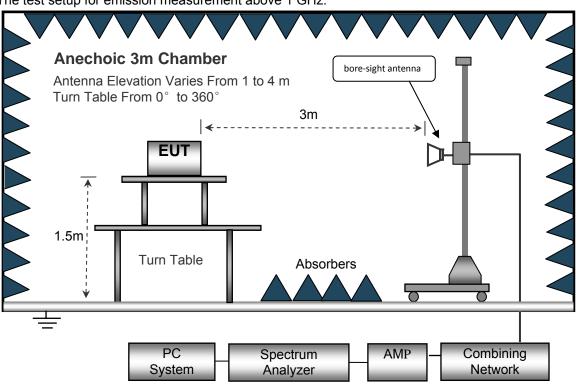
The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

The test setup for emission measurement below 30MHz.



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





The test setup for emission measurement above 1 GHz.

9.3 Spectrum Analyzer Setup

	•	
Below 30MHz	<u>z</u>	
	Sweep Speed	Auto
	IF Bandwidth	10kHz
	Video Bandwidth	10kHz
	Resolution Bandwidth	10kHz
30MHz ~ 1GH	Hz	
	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

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9.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.

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 Z axis,so the worst data were shown as follow.

8. A 2.4GHz high -pass filter is used druing radiated emissions above 1GHz measurement.

9.5 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

9.6 Summary of Test Results

Wifi:

Test Frequency: 9KHz~30MHz

Remark: only the worst data (802.11b/g/n Low channel mode) were recorded.

Frequency	Measurement results dBµV @3m	Detector PK/QP	Correct factor dB/m	Extrapolatio n factor dB	Measurement results (calculated) dBµV/m @30m	Limits dBµV/m @30m	Margin dB				
(MHz)	Measurement results	Detector	Correct factor	Extrapolatio n factor	Measurement results (calculated)	Limits	Margin				
	802.11b										
6.021	25.30	QP	21.84	40.00	7.14	29.54	-22.40				
15.730	24.96	QP	21.35	40.00	6.31	29.54	-23.23				
25.680	25.17	QP	20.67	40.00	5.84	29.54	-23.70				
			802.	11g							
6.021	25.37	QP	21.84	40.00	7.21	29.54	-22.33				
15.730	25.10	QP	21.35	40.00	6.45	29.54	-23.09				
25.680	25.67	QP	20.67	40.00	6.34	29.54	-23.20				
			802.11n	(HT20)							
6.021	24.62	QP	21.84	40.00	6.46	29.54	-23.08				
15.730	25.34	QP	21.35	40.00	6.69	29.54	-22.85				
25.680	25.48	QP	20.67	40.00	6.15	29.54	-23.39				

Test Frequency : 30MHz ~ 18GHz

F	Receiver	Datastan	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)	
11b: Low Channel 2412MHz										
223.45	39.45	QP	14	1.4	Н	-11.62	27.83	46.00	-18.17	
223.45	35.31	QP	20	1.7	V	-11.62	23.69	46.00	-22.31	
4824.00	48.51	PK	172	1.6	V	-1.06	47.45	74.00	-26.55	
4824.00	46.50	Ave	172	1.6	V	-1.06	45.44	54.00	-8.56	
7236.00	42.92	PK	52	1.4	Н	1.33	44.25	74.00	-29.75	
7236.00	41.40	Ave	52	1.4	Н	1.33	42.73	54.00	-11.27	
2331.48	45.68	PK	165	1.9	V	-13.19	32.49	74.00	-41.51	
2331.48	39.83	Ave	165	1.9	V	-13.19	26.64	54.00	-27.36	
2378.23	42.19	PK	157	1.6	Н	-13.14	29.05	74.00	-44.95	
2378.23	37.90	Ave	157	1.6	Н	-13.14	24.76	54.00	-29.24	
2493.15	42.19	PK	228	1.2	V	-13.08	29.11	74.00	-44.89	
2493.15	36.89	Ave	228	1.2	V	-13.08	23.81	54.00	-30.19	

F	Receiver	Datastan	Turn	RX An	tenna	Corrected	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: Middle Channel 2437MHz										
223.45	38.25	QP	177	1.0	Н	-11.62	26.63	46.00	-19.37	
223.45	36.56	QP	161	1.8	V	-11.62	24.94	46.00	-21.06	
4874.00	47.08	PK	72	1.3	V	-0.62	46.46	74.00	-27.54	
4874.00	45.72	Ave	72	1.3	V	-0.62	45.10	54.00	-8.90	
7311.00	42.50	PK	131	1.4	Н	2.21	44.71	74.00	-29.29	
7311.00	40.87	Ave	131	1.4	Н	2.21	43.08	54.00	-10.92	
2340.28	45.61	PK	348	1.9	V	-13.19	32.42	74.00	-41.58	
2340.28	39.21	Ave	348	1.9	V	-13.19	26.02	54.00	-27.98	
2376.47	44.50	PK	1	1.3	Н	-13.14	31.36	74.00	-42.64	
2376.47	38.12	Ave	1	1.3	Н	-13.14	24.98	54.00	-29.02	
2499.63	43.78	PK	248	1.4	V	-13.08	30.70	74.00	-43.30	
2499.63	38.08	Ave	248	1.4	V	-13.08	25.00	54.00	-29.00	

F	Receiver	Datastan	Turn	RX An	tenna	Corrected	Corrected	FCC Part 15.247/209/205		
Frequency	Reading	Detector	table Angle	I I Factor I	Corrected Amplitude	Limit	Margin			
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
11b: High Channel 2462MHz										
223.45	39.23	QP	65	1.2	Н	-11.62	27.61	46.00	-18.39	
223.45	37.27	QP	44	1.5	V	-11.62	25.65	46.00	-20.35	
4924.00	46.49	PK	250	1.5	V	-0.24	46.25	74.00	-27.75	
4924.00	46.44	Ave	250	1.5	V	-0.24	46.20	54.00	-7.80	
7386.00	41.09	PK	197	1.0	Н	2.84	43.93	74.00	-30.07	
7386.00	41.83	Ave	197	1.0	Н	2.84	44.67	54.00	-9.33	
2325.74	46.90	PK	49	1.7	V	-13.19	33.71	74.00	-40.29	
2325.74	37.28	Ave	49	1.7	V	-13.19	24.09	54.00	-29.91	
2387.66	42.85	PK	144	1.9	Н	-13.14	29.71	74.00	-44.29	
2387.66	38.36	Ave	144	1.9	Н	-13.14	25.22	54.00	-28.78	
2487.65	43.63	PK	94	1.6	V	-13.08	30.55	74.00	-43.45	
2487.65	36.96	Ave	94	1.6	V	-13.08	23.88	54.00	-30.12	

F	Receiver	Datastan	Turn	RX An	tenna	Corrected	Carracted	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: Low Channel 2412MHz										
223.45	38.72	QP	192	1.2	Н	-11.62	27.10	46.00	-18.90	
223.45	37.57	QP	259	1.7	V	-11.62	25.95	46.00	-20.05	
4824.00	47.93	PK	311	1.8	V	-1.06	46.87	74.00	-27.13	
4824.00	45.16	Ave	311	1.8	V	-1.06	44.10	54.00	-9.90	
7236.00	40.46	PK	214	1.6	Н	1.33	41.79	74.00	-32.21	
7236.00	42.90	Ave	214	1.6	Н	1.33	44.23	54.00	-9.77	
2338.28	46.52	PK	75	1.2	V	-13.19	33.33	74.00	-40.67	
2338.28	37.69	Ave	75	1.2	V	-13.19	24.50	54.00	-29.50	
2383.48	44.48	PK	104	1.9	Н	-13.14	31.34	74.00	-42.66	
2383.48	38.19	Ave	104	1.9	Н	-13.14	25.05	54.00	-28.95	
2487.76	43.83	PK	149	1.5	V	-13.08	30.75	74.00	-43.25	
2487.76	36.92	Ave	149	1.5	V	-13.08	23.84	54.00	-30.16	

F	Receiver	Datastan	Turn	RX An	tenna	Corrected	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)	
11g: Middle Channel 2437MHz										
223.45	39.79	QP	177	1.9	Н	-11.62	28.17	46.00	-17.83	
223.45	37.98	QP	284	1.7	V	-11.62	26.36	46.00	-19.64	
4874.00	47.08	PK	145	1.6	V	-0.62	46.46	74.00	-27.54	
4874.00	45.37	Ave	145	1.6	V	-0.62	44.75	54.00	-9.25	
7311.00	39.11	PK	15	1.0	Н	2.21	41.32	74.00	-32.68	
7311.00	43.21	Ave	15	1.0	Н	2.21	45.42	54.00	-8.58	
2347.37	45.90	PK	213	1.5	V	-13.19	32.71	74.00	-41.29	
2347.37	38.35	Ave	213	1.5	V	-13.19	25.16	54.00	-28.84	
2355.87	43.81	PK	270	1.4	Н	-13.14	30.67	74.00	-43.33	
2355.87	36.95	Ave	270	1.4	Н	-13.14	23.81	54.00	-30.19	
2488.74	43.26	PK	154	1.7	V	-13.08	30.18	74.00	-43.82	
2488.74	37.52	Ave	154	1.7	V	-13.08	24.44	54.00	-29.56	

	Receiver	Datastan	Turn	RX An	tenna	Corrected	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)		
11g: High Channel 2462MHz											
223.45	38.95	QP	13	1.2	Н	-11.62	27.33	46.00	-18.67		
223.45	38.28	QP	280	1.6	V	-11.62	26.66	46.00	-19.34		
4924.00	47.95	PK	324	1.9	V	-0.24	47.71	74.00	-26.29		
4924.00	46.53	Ave	324	1.9	V	-0.24	46.29	54.00	-7.71		
7386.00	40.22	PK	228	1.5	Н	2.84	43.06	74.00	-30.94		
7386.00	42.79	Ave	228	1.5	Н	2.84	45.63	54.00	-8.37		
2326.92	46.14	PK	214	1.9	V	-13.19	32.95	74.00	-41.05		
2326.92	39.22	Ave	214	1.9	V	-13.19	26.03	54.00	-27.97		
2373.52	43.08	PK	179	1.4	Н	-13.14	29.94	74.00	-44.06		
2373.52	38.37	Ave	179	1.4	Н	-13.14	25.23	54.00	-28.77		
2484.18	42.06	PK	181	1.8	V	-13.08	28.98	74.00	-45.02		
2484.18	38.89	Ave	181	1.8	V	-13.08	25.81	54.00	-28.19		

Fraguency	Receiver	iver Datastas	Turn	RX Antenna		Corrected	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)	
11n20: Low Channel 2412MHz										
223.45	39.94	QP	55	1.0	Н	-11.62	28.32	46.00	-17.68	
223.45	37.50	QP	129	1.1	V	-11.62	25.88	46.00	-20.12	
4824.00	47.90	PK	108	1.0	V	-1.06	46.84	74.00	-27.16	
4824.00	46.49	Ave	108	1.0	V	-1.06	45.43	54.00	-8.57	
7236.00	40.21	PK	53	1.5	Н	1.33	41.54	74.00	-32.46	
7236.00	44.20	Ave	53	1.5	Н	1.33	45.53	54.00	-8.47	
2332.19	46.00	PK	356	1.4	V	-13.19	32.81	74.00	-41.19	
2332.19	37.86	Ave	356	1.4	V	-13.19	24.67	54.00	-29.33	
2357.45	42.81	PK	205	1.3	Н	-13.14	29.67	74.00	-44.33	
2357.45	36.83	Ave	205	1.3	Н	-13.14	23.69	54.00	-30.31	
2499.71	42.45	PK	340	1.9	V	-13.08	29.37	74.00	-44.63	
2499.71	37.92	Ave	340	1.9	V	-13.08	24.84	54.00	-29.16	

Fraguanay	Receiver	r Datastan	Turn	RX Antenna		Corrected	Commented	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)		
	11n20: Middle Channel 2437MHz										
223.45	39.62	QP	302	1.4	Н	-11.62	28.00	46.00	-18.00		
223.45	36.10	QP	231	1.3	V	-11.62	24.48	46.00	-21.52		
4874.00	48.39	PK	111	1.4	V	-0.62	47.77	74.00	-26.23		
4874.00	46.20	Ave	111	1.4	V	-0.62	45.58	54.00	-8.42		
7311.00	39.08	PK	121	1.1	Н	2.21	41.29	74.00	-32.71		
7311.00	45.65	Ave	121	1.1	Н	2.21	47.86	54.00	-6.14		
2332.12	46.01	PK	47	1.1	V	-13.19	32.82	74.00	-41.18		
2332.12	39.17	Ave	47	1.1	V	-13.19	25.98	54.00	-28.02		
2371.87	42.74	PK	212	1.5	Н	-13.14	29.60	74.00	-44.40		
2371.87	38.26	Ave	212	1.5	Н	-13.14	25.12	54.00	-28.88		
2497.86	44.26	PK	16	1.1	V	-13.08	31.18	74.00	-42.82		
2497.86	37.24	Ave	16	1.1	V	-13.08	24.16	54.00	-29.84		

Fraguency	Receiver	r Datastan	Turn	RX Antenna		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)		
	11n20: High Channel 2462MHz										
223.45	39.02	QP	30	1.4	Н	-11.62	27.40	46.00	-18.60		
223.45	35.26	QP	165	1.5	V	-11.62	23.64	46.00	-22.36		
4924.00	49.63	PK	261	1.9	V	-0.24	49.39	74.00	-24.61		
4924.00	46.78	Ave	261	1.9	V	-0.24	46.54	54.00	-7.46		
7386.00	39.54	PK	71	1.4	Н	2.84	42.38	74.00	-31.62		
7386.00	45.56	Ave	71	1.4	Н	2.84	48.40	54.00	-5.60		
2314.49	46.60	PK	238	1.6	V	-13.19	33.41	74.00	-40.59		
2314.49	37.21	Ave	238	1.6	V	-13.19	24.02	54.00	-29.98		
2365.35	43.23	PK	71	1.9	Н	-13.14	30.09	74.00	-43.91		
2365.35	38.45	Ave	71	1.9	Н	-13.14	25.31	54.00	-28.69		
2484.59	44.41	PK	96	1.4	V	-13.08	31.33	74.00	-42.67		
2484.59	36.12	Ave	96	1.4	V	-13.08	23.04	54.00	-30.96		

Test Frequency: 18GHz~25GHz

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

BT BLE: Test Frequency: 9KHz~26MHz

Remark: only the worst data (GFSK modulation Low channel mode) were recorded.

Frequency	Measurement results dBµV @3m	Detector PK/QP	Correct factor dB/m	Extrapolatio n factor dB	Measurement results (calculated) dBµV/m @30m	Limits dBµV/m @30m	Margi n dB
(MHz)	Measurement results	Detector	Correct factor	Extrapolatio n factor	Measurement results (calculated)	Limits	Margi n
6.021	25.08	QP	21.84	40.00	6.92	29.54	-22.62
15.730	25.69	QP	21.35	40.00	7.04	29.54	-22.50
25.680	25.76	QP	20.67	40.00	6.43	29.54	-23.11

Test Frequency: 26MHz ~ 30MHz

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

Test Frequency: 30MHz ~ 18GHz

	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)	
	GFSK Low Channel 2402MHz									
268.36	34.94	QP	217	1.1	Н	-13.35	21.59	46.00	-24.41	
268.36	41.04	QP	154	1.7	V	-13.35	27.69	46.00	-18.31	
4804.00	45.42	PK	300	1.9	V	-1.06	44.36	74.00	-29.64	
4804.00	42.74	Ave	300	1.9	V	-1.06	41.68	54.00	-12.32	
7206.00	45.32	PK	15	1.2	Н	1.33	46.65	74.00	-27.35	
7206.00	36.07	Ave	15	1.2	Н	1.33	37.40	54.00	-16.60	
2338.58	45.25	PK	7	1.4	V	-13.19	32.06	74.00	-41.94	
2338.58	38.19	Ave	7	1.4	V	-13.19	25.00	54.00	-29.00	
2374.96	43.68	PK	217	1.8	Н	-13.14	30.54	74.00	-43.46	
2374.96	38.80	Ave	217	1.8	Н	-13.14	25.66	54.00	-28.34	
2484.70	42.89	PK	129	2.0	V	-13.08	29.81	74.00	-44.19	
2484.70	38.92	Ave	129	2.0	V	-13.08	25.84	54.00	-28.16	

Frequency	Receiver	Detector	Turn	RX An	tenna	Corrected	Corrected			
	Reading		table Angle	Height	Polar	Factor	Amplitude	Limit	Margin	
(MHz)	(dBµV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
	GFSK Middle Channel 2440MHz									
268.36	35.66	QP	198	1.4	Н	-13.35	22.31	46.00	-23.69	
268.36	40.85	QP	83	1.1	V	-13.35	27.50	46.00	-18.50	
4880.00	43.46	PK	250	2.0	V	-0.62	42.84	74.00	-31.16	
4880.00	42.52	Ave	250	2.0	V	-0.62	41.90	54.00	-12.10	
7320.00	45.80	PK	168	1.3	Н	2.21	48.01	74.00	-25.99	
7320.00	34.74	Ave	168	1.3	Н	2.21	36.95	54.00	-17.05	
2345.01	45.96	PK	30	1.4	V	-13.19	32.77	74.00	-41.23	
2345.01	38.90	Ave	30	1.4	V	-13.19	25.71	54.00	-28.29	
2385.74	42.07	PK	264	1.8	Н	-13.14	28.93	74.00	-45.07	
2385.74	38.56	Ave	264	1.8	Н	-13.14	25.42	54.00	-28.58	
2494.26	43.05	PK	266	1.2	V	-13.08	29.97	74.00	-44.03	
2494.26	38.77	Ave	266	1.2	V	-13.08	25.69	54.00	-28.31	

	Receiver		Turn	RX An	RX Antenna		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)	
	GFSK High Channel 2480MHz									
268.36	34.46	QP	253	1.6	Н	-13.35	21.11	46.00	-24.89	
268.36	41.59	QP	296	1.9	V	-13.35	28.24	46.00	-17.76	
4960.00	43.09	PK	269	1.0	V	-0.24	42.85	74.00	-31.15	
4960.00	43.82	Ave	269	1.0	V	-0.24	43.58	54.00	-10.42	
7440.00	44.71	PK	69	1.5	Н	2.84	47.55	74.00	-26.45	
7440.00	33.56	Ave	69	1.5	Н	2.84	36.40	54.00	-17.60	
2337.93	46.06	PK	131	1.2	V	-13.19	32.87	74.00	-41.13	
2337.93	39.01	Ave	131	1.2	V	-13.19	25.82	54.00	-28.18	
2351.58	44.70	PK	319	1.5	Н	-13.14	31.56	74.00	-42.44	
2351.58	37.14	Ave	319	1.5	Н	-13.14	24.00	54.00	-30.00	
2491.08	42.53	PK	334	1.6	V	-13.08	29.45	74.00	-44.55	
2491.08	37.18	Ave	334	1.6	V	-13.08	24.10	54.00	-29.90	

Test Frequency: 18GHz~25GHz

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

Reference No.: WTS17S1093892-2E Page 34 of 76

10 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017

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)).

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:

Blow 30MHz:

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

Above 1GHz:

For WIFI mode

RBW = 100kHz, VBW = 300kHz, Sweep = auto

Detector function = peak, Trace = max hold

For BLE mode

RBW = 100kHz, VBW = 300kHz, Sweep = auto

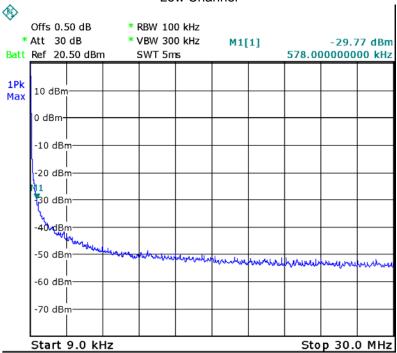
Detector function = peak, Trace = max hold

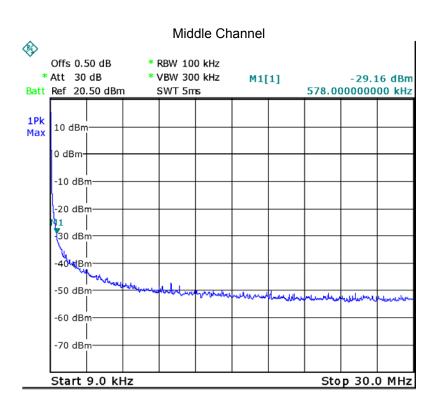
10.2 Test Result

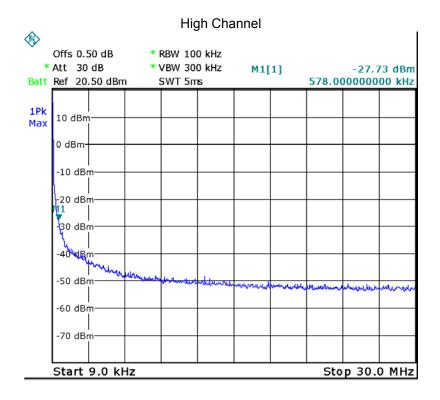
9KHz - 30MHz

802.11b

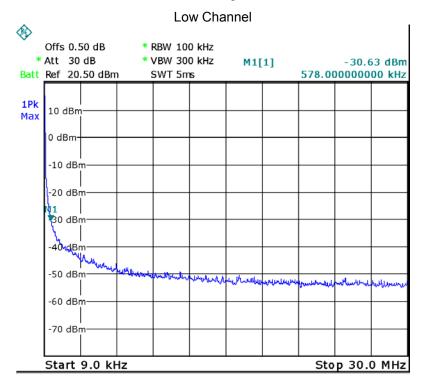
Low Channel

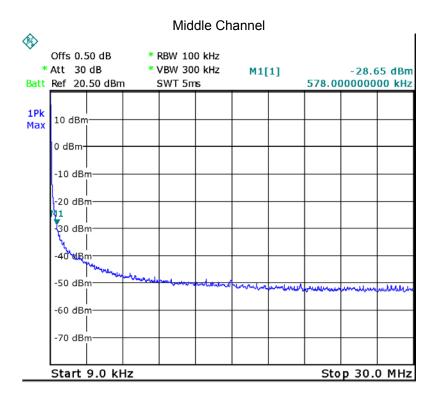


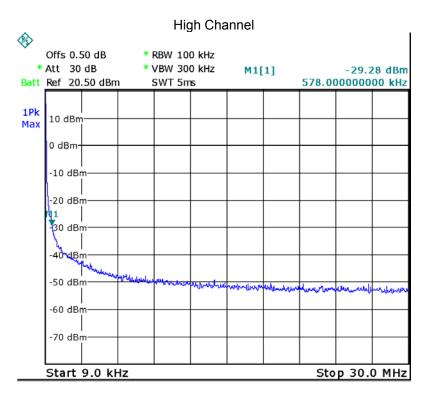




802.11g

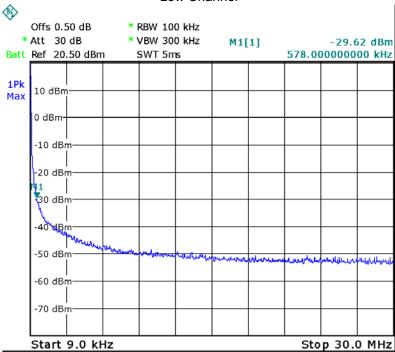


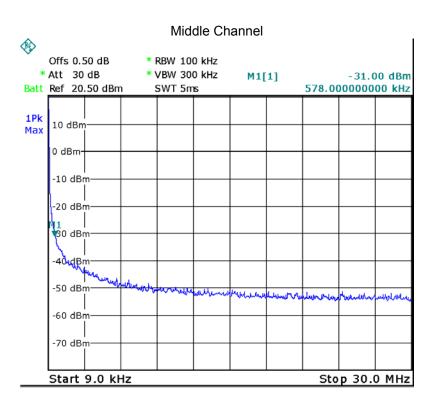


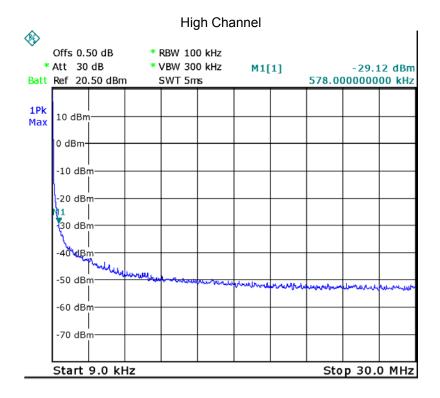


802.11n HT20

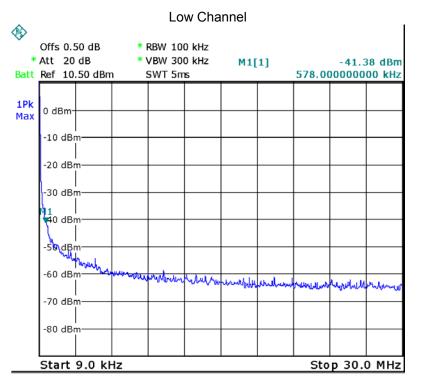
Low Channel

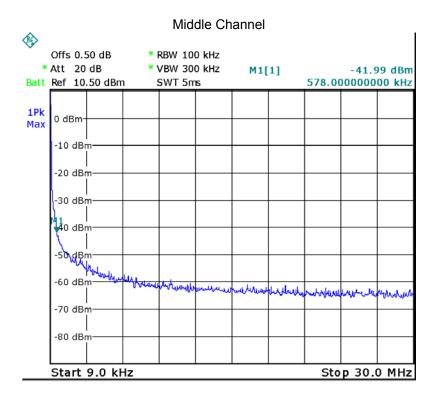


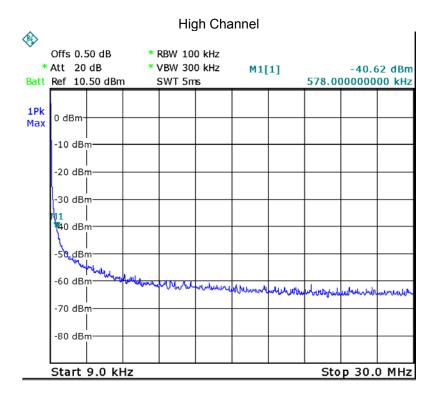




BLE







Above 30MHz

802.11b

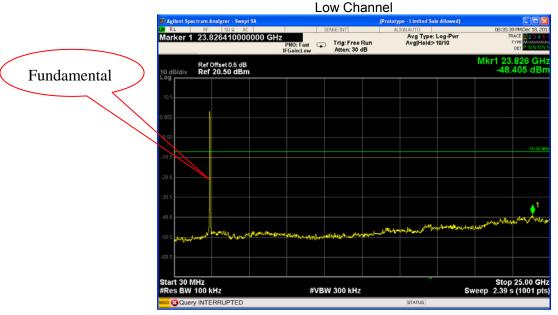
Low Channel



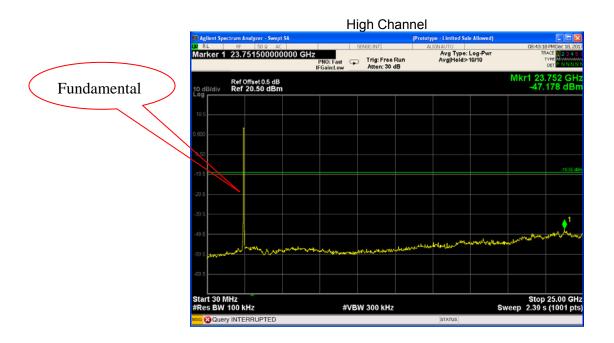
Middle Channel | Protection | Section | Sect



802.11g



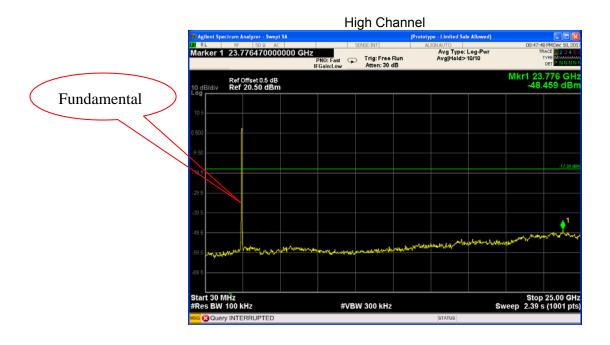




802.11n HT20

Low Channel











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11 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017

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)).

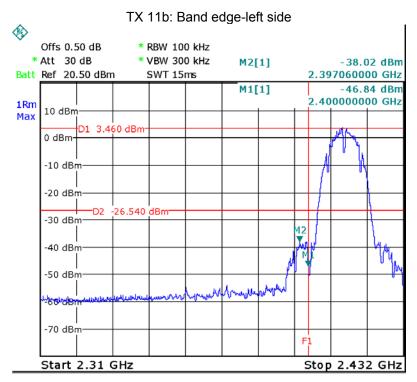
Test Mode: Transmitting

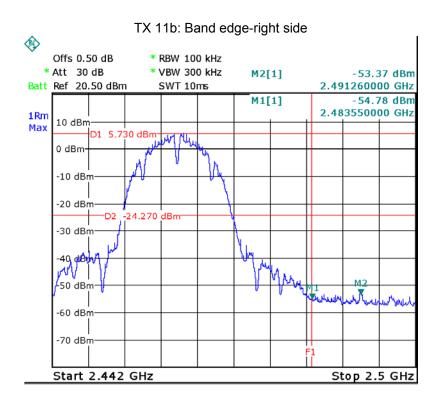
11.1 Test Produce

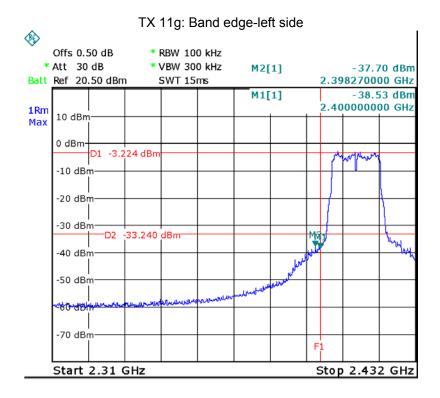
- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable.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

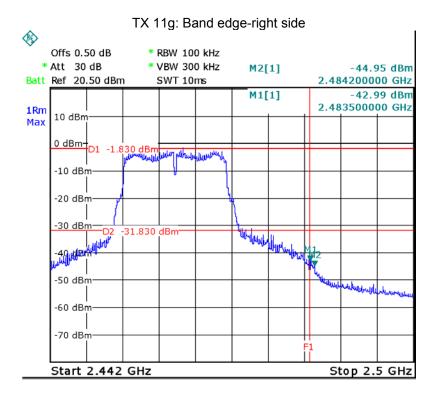
11.2 Test Result

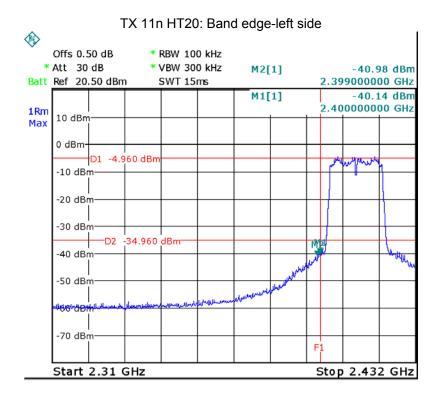
Test result plots shown as follows:

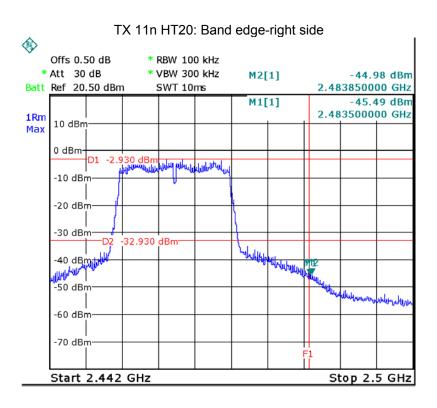


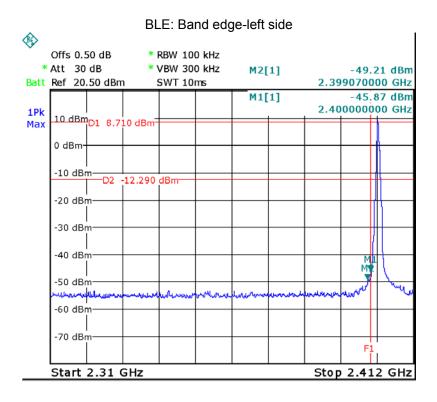


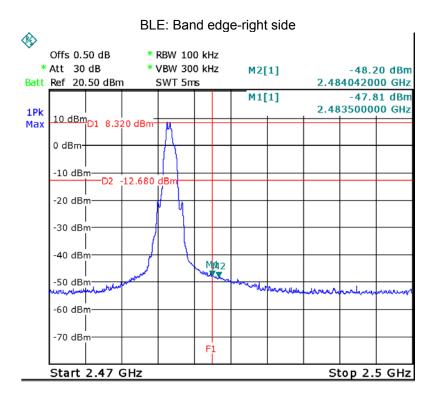












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12 6 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017

12.1 Test Procedure:

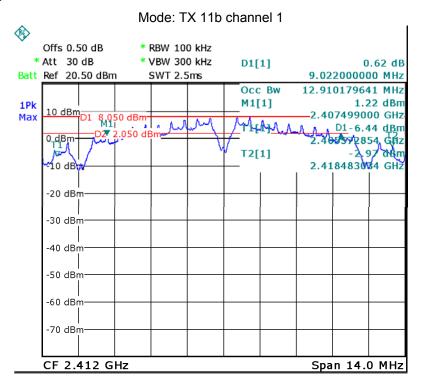
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

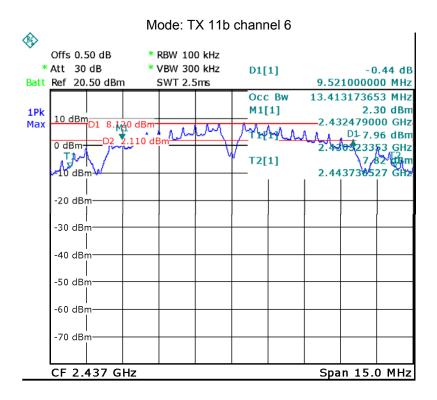
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

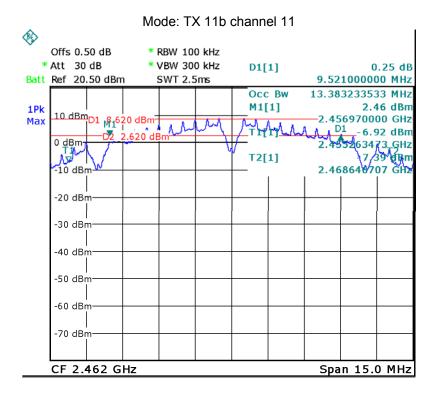
12.2 Test Result:

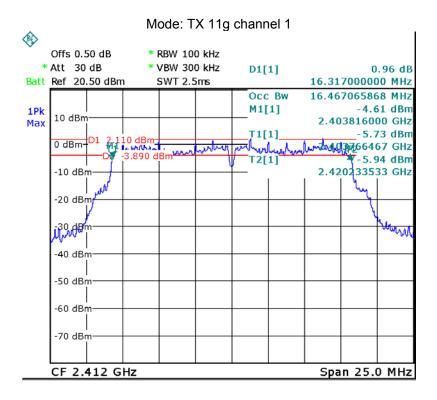
Operation mode	Test Channel	6dB Bandwidth (MHz)	99% Bandwidth(MHz)
TX 11b	Channel 1	0.902	12.910
	Channel 6	0.952	13.413
	Channel 11	0.952	13.383
TX 11g	Channel 1	16.317	16.467
	Channel 6	16.317	16.467
	Channel 11	16.317	16.467
TX 11n HT20	Channel 1	17.623	17.677
	Channel 6	17.623	17.677
	Channel 11	17.623	17.677
BLE	Channel 0	0.533	1.108
	Channel 19	0.515	1.108
	Channel 39	0.527	1.114

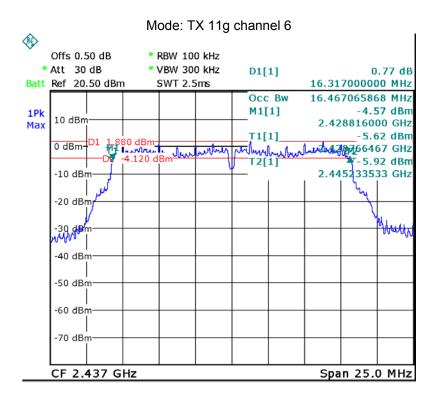
Test result plot:

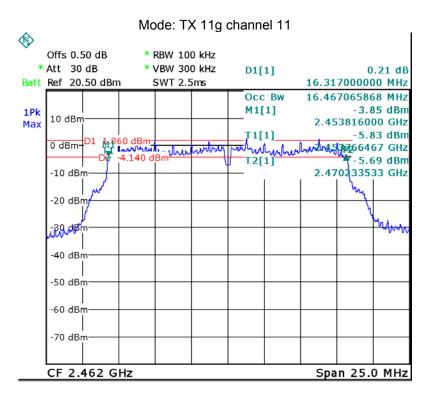


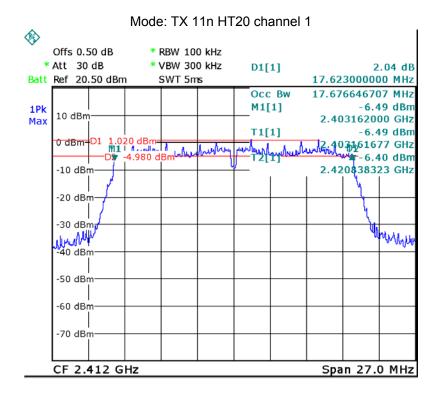


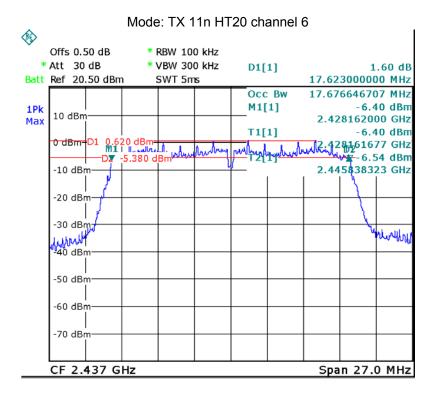


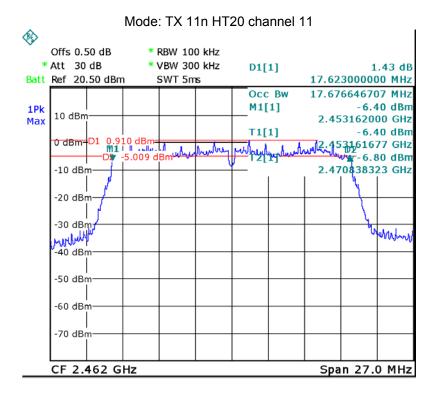


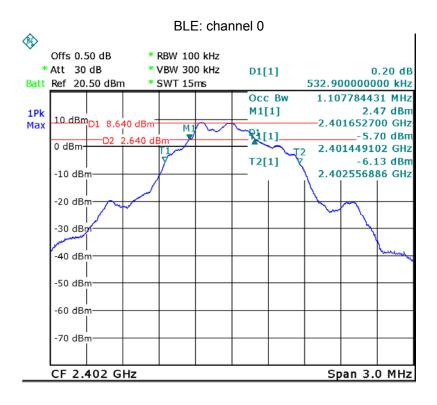


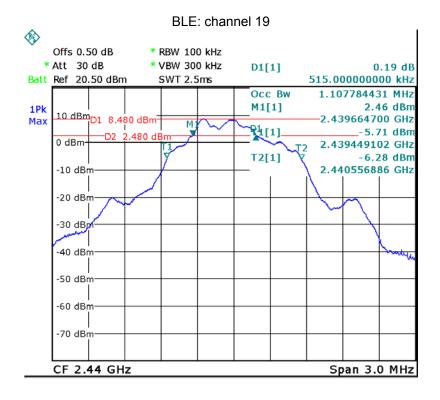


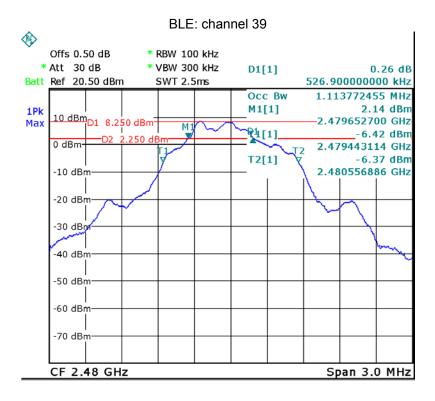












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13 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017

13.1 Test Procedure:

KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017

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.

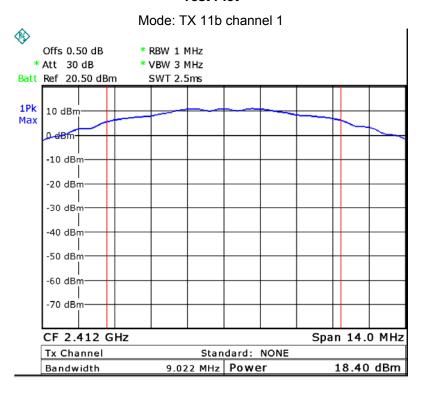
- a)Set the RBW = 1 MHz.
- b)Set the VBW ≥ 3 RBW
- c)Set the span \geq 1.5 x DTS bandwidth.
- d)Detector = peak.
- e)Sweep time = auto couple.
- f)Trace mode = max hold.
- g)Allow trace to fully stabilize.
- h)Use the instrument's band/channel power measurement function with the band limits set equal 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.

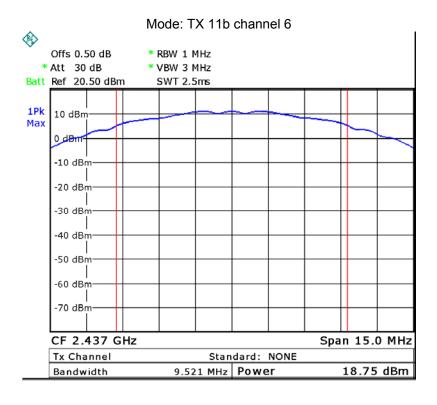
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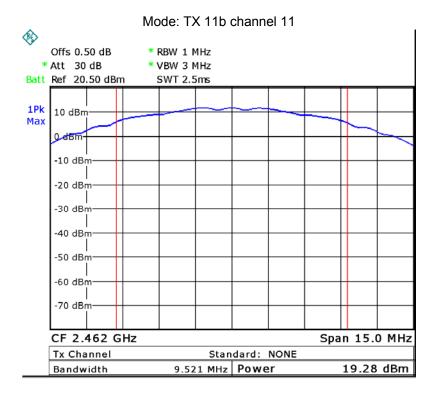
13.2 Test Result:

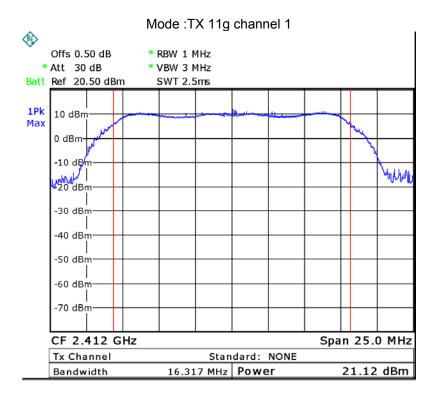
Operation mode	Channel Frequency (MHz)	Maximum Peak Output Power (dBm)	Limit
TX 11b	Low-2412	18.40	1W/30dBm
	Middle-2437	18.75	1W/30dBm
	High-2462	19.28	1W/30dBm
TX 11g	Low-2412	21.12	1W/30dBm
	Middle-2437	20.79	1W/30dBm
	High-2462	21.10	1W/30dBm
TX 11n HT20	Low-2412	19.82	1W/30dBm
	Middle-2437	19.59	1W/30dBm
	High-2462	19.62	1W/30dBm
BLE	Low-2402	9.20	1W/30dBm
	Middle-2440	8.92	1W/30dBm
	High-2480	8.93	1W/30dBm

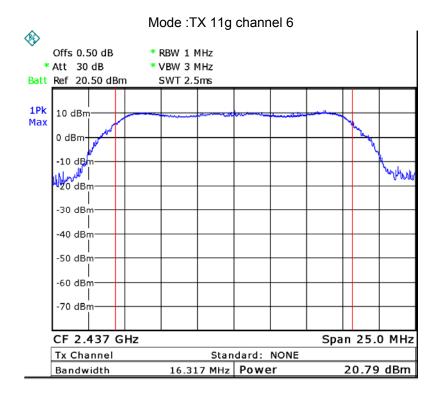
Test Plot

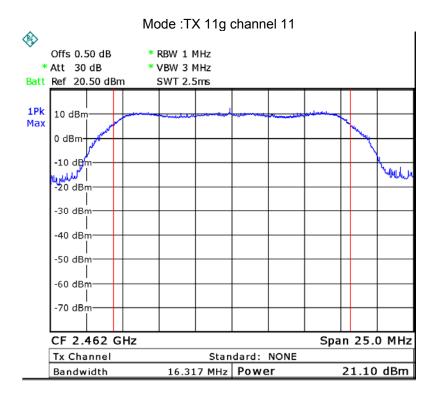


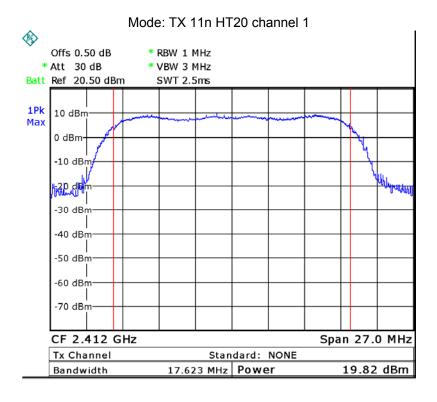


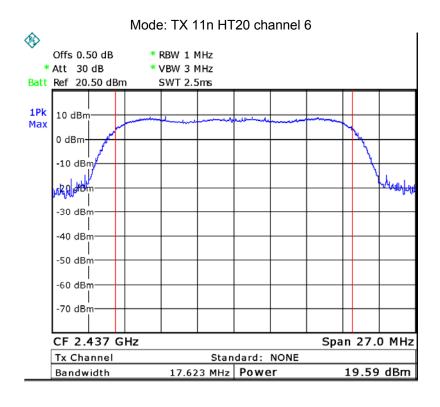


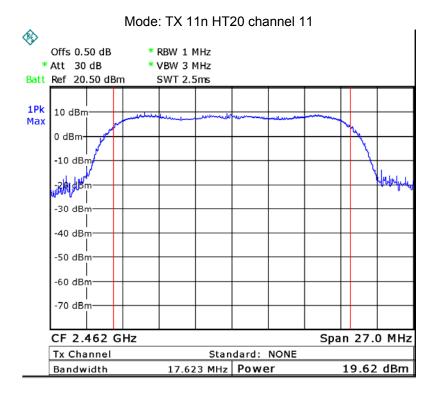


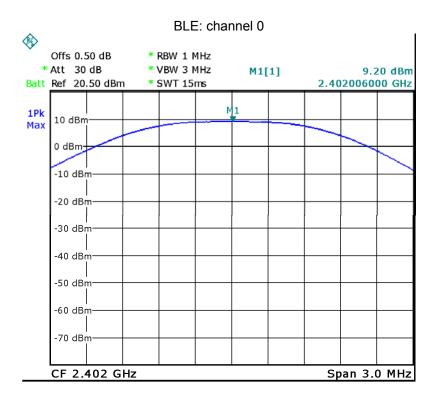


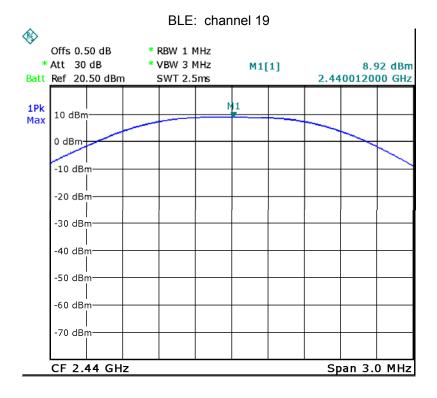


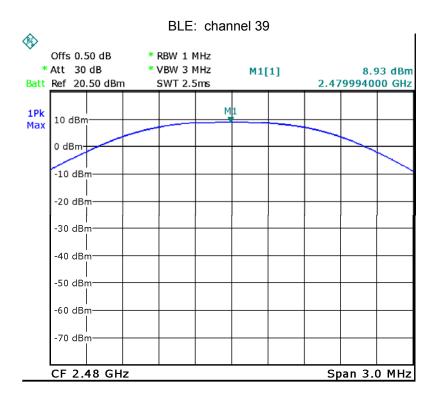












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14 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017

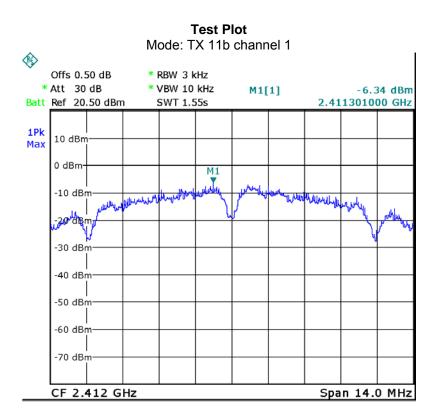
14.1 Test Procedure:

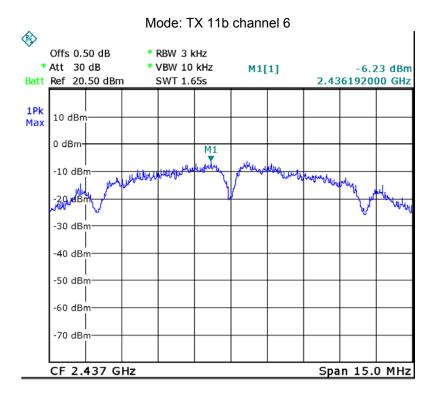
KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017 section 10.2

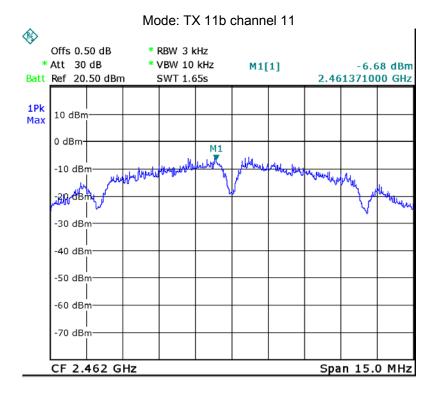
- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
- 3. Allow the trace 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.

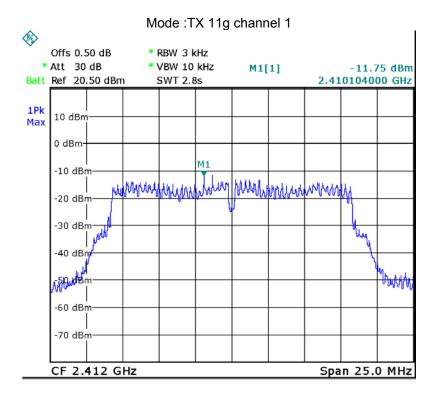
14.2 Test Result:

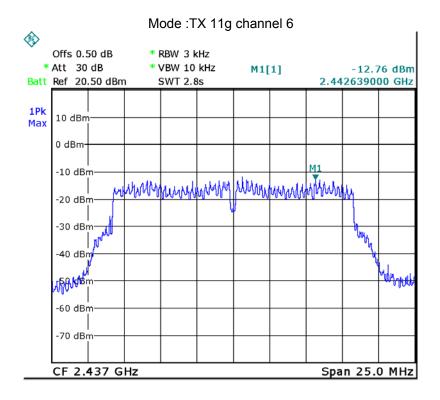
Operation mode	Channel Frequency (MHz)	Power Spectral (dBm per 3kHz)	Limit
TX 11b	Low-2412	-6.34	8dBm per 3kHz
	Middle-2437	-6.23	8dBm per 3kHz
	High-2462	-6.68	8dBm per 3kHz
TX 11g	Low-2412	-11.75	8dBm per 3kHz
	Middle-2437	-12.76	8dBm per 3kHz
	High-2462	-12.12	8dBm per 3kHz
TX 11n HT20	Low-2412	-14.34	8dBm per 3kHz
	Middle-2437	-13.93	8dBm per 3kHz
	High-2462	-15.10	8dBm per 3kHz
BLE	Low-2402	-8.10	8dBm per 3kHz
	Middle-2440	-8.76	8dBm per 3kHz
	High-2480	-8.83	8dBm per 3kHz

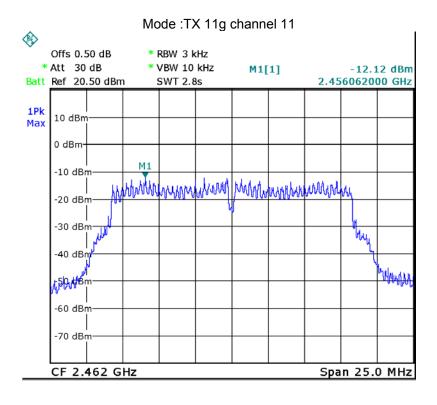


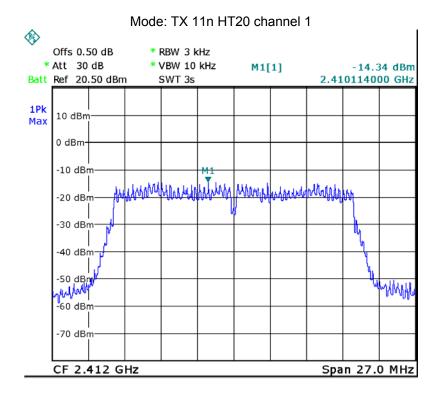


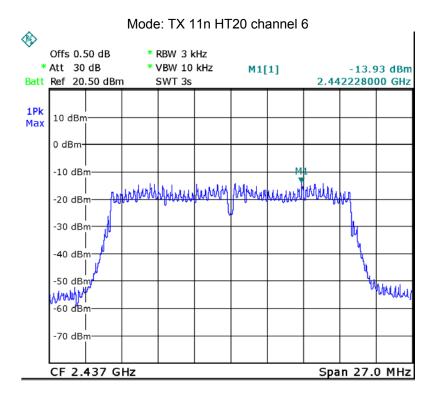


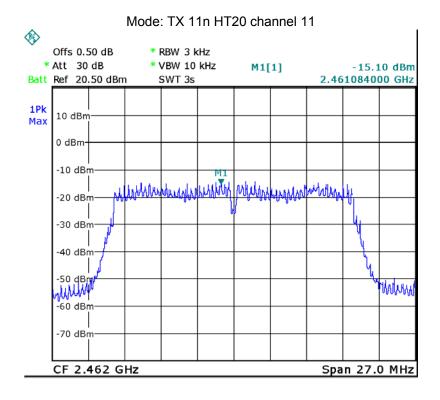


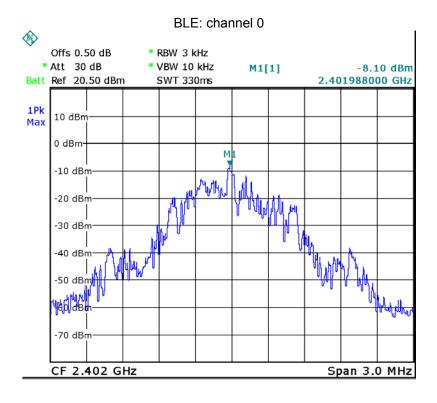


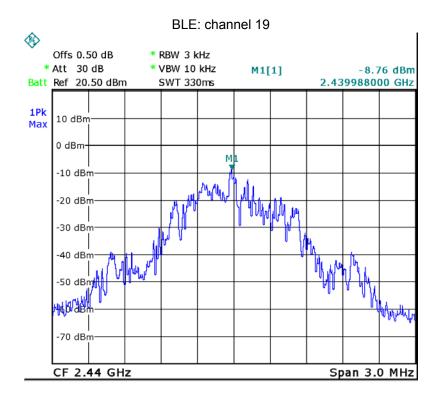


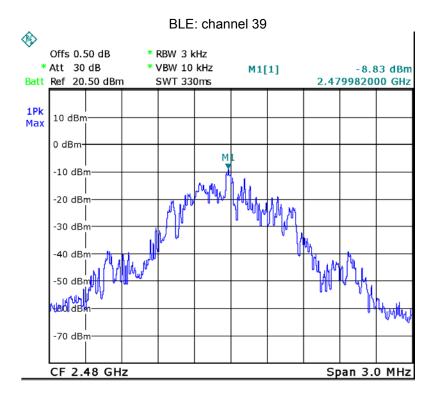












15 Antenna Requirement

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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16 RF Exposure

Remark: refer to SAR test report: WTS17S1093893E.

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17 Photographs of test setup and EUT.

Note: Please refer to appendix: WTS17S1093892E_Photo.

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