

FCC Test Report

Client Name : Teguar Corporation

Client Address : 2920 Whitehall Park Drive Charlotte NC 28217
United States

Product Name : Teguar Slim Rugged Tablet

Report Date : Dec. 20, 2022

Shenzhen Anbotek Compliance Laboratory Limited



Shenzhen Anbotek Compliance Laboratory Limited

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Code: AB-RF-05-b



Hotline

400-003-0500

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TEST REPORT

Applicant : Teguar Corporation
Manufacturer : Teguar Corporation
Product Name : Teguar Slim Rugged Tablet
Model No. : TMT-Q7C80-10S, TRT-Q7C80-10S
Trade Mark : TEGUAR
Rating(s) : Input: TYPE-C PD,12VDC/4A (with DC 7.6V, 4750mAh battery inside)

**Test Standard(s) : FCC Part15 Subpart E, Paragraph 15.407
ANSI C63.10: 2020**

**Test Method(s) : KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart E requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Nov. 15, 2022

Date of Test

Nov. 15 ~ Dec. 02, 2022

Prepared By

Nian Xiu Chen

(Nianxiu Chen)

Approved & Authorized Signer

Kingkong Jin

(Kingkong Jin)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Dec. 20, 2022



1. General Information

1.1. Client Information

Applicant	:	Teguar Corporation
Address	:	2920 Whitehall Park Drive Charlotte NC 28217 United States
Manufacturer	:	Teguar Corporation
Address	:	2920 Whitehall Park Drive Charlotte NC 28217 United States
Factory	:	Teguar Corporation
Address	:	2920 Whitehall Park Drive Charlotte NC 28217 United States

1.2. Description of Device (EUT)

Product Name	:	Teguar Slim Rugged Tablet
Model No.	:	TMT-Q7C80-10S, TRT-Q7C80-10S (Note: All samples are the same except the model number, so we prepare "TMT-Q7C80-10S" for test only.)
Trade Mark	:	TEGUAR
Test Power Supply	:	AC 120V, 60Hz for Adapter/ DC 7.6V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter1	:	Model: GTM96605-G2A1-T2 Input: 100-240V~50/60Hz 1.5A Output: 5.0V== 4.6A; 5.8V== 4.6A; 9.0V== 4.4A; 12.0V== 4A 60W; 15.0V== 3.6A; 15.1V== 3.6A; 20.0V== 3A;
Adapter2	:	Model: WTB48-1203000-T Input: 100-240V~50/60Hz 1.6A Output: 12.0V== 3.0A 36.0W
Adapter3	:	Model: UES60D1-200300SPC Input: 100-240V~50/60Hz 1.3A Output: 5.0V== 3.0A 15.0W; 9.0V== 3.0A 27.0W; 12.0V== 3.0A 36.0W; 15.0V== 3.0A 45.0W; 20.0V== 3.0A 60.0W Max

Code:AB-RF-05-b

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RF Specification	
Operation Mode	<input checked="" type="checkbox"/> a <input checked="" type="checkbox"/> n(HT20) <input checked="" type="checkbox"/> n(HT40) <input checked="" type="checkbox"/> ac(VHT20) <input checked="" type="checkbox"/> ac(VHT40) <input checked="" type="checkbox"/> ac(VHT80) <input type="checkbox"/> ac(VHT160) <input type="checkbox"/> ax(HEW20) <input type="checkbox"/> ax(HEW40) <input type="checkbox"/> ax(HEW80) <input type="checkbox"/> ax(HEW160)
Device Type	<input type="checkbox"/> Outdoor AP <input type="checkbox"/> Indoor AP <input type="checkbox"/> Point-to-point AP <input checked="" type="checkbox"/> Client
Operation Frequency	<input checked="" type="checkbox"/> Wi-Fi 5.2G: 5150~5250MHz <input type="checkbox"/> Wi-Fi 5.3G: 5250~5350MHz <input type="checkbox"/> Wi-Fi 5.6G: 5470~5725MHz <input checked="" type="checkbox"/> Wi-Fi 5.8G: 5725~5850MHz
Number of Channel	Wi-Fi 5.2G: <input checked="" type="checkbox"/> 4 Channels for 20MHz bandwidth (5180-5240MHz) <input checked="" type="checkbox"/> 2 Channels for 40MHz bandwidth (5190-5230MHz) <input checked="" type="checkbox"/> 1 Channels for 80MHz bandwidth (5210MHz) Wi-Fi 5.8G: <input checked="" type="checkbox"/> 5 Channels for 20MHz bandwidth (5745MHz ~ 5825MHz) <input checked="" type="checkbox"/> 2 Channels for 40MHz bandwidth (5755MHz ~ 5795MHz) <input checked="" type="checkbox"/> 1 Channels for 80MHz bandwidth (5775MHz)
Modulation Type	<input checked="" type="checkbox"/> 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) <input checked="" type="checkbox"/> 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) <input checked="" type="checkbox"/> 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) <input type="checkbox"/> 802.11ax: OFDMA(BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Antenna Type	ANT1: FPC Antenna ANT2: FPC Antenna
Antenna Gain(Peak)	Wi-Fi 5.2G: ANT1: 0.95 dBi (Provided by customer) ANT2: 1.63 dBi (Provided by customer) Wi-Fi 5.8G: ANT1: 1.74 dBi (Provided by customer) ANT2: 1.60 dBi (Provided by customer)
<p>Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.</p> <p>2) Only 802.11n(HT20), 802.11n(HT40), 802.11ac(HT20), 802.11ac(HT40), 802.11ac(HT80) support MIMO.</p> <p>3) During the test, pre-scan all adapter test and only show the test data of the worst case (for adapter1: GTM96605-G2A1-T2) in this report.</p>	



1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
--	--

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

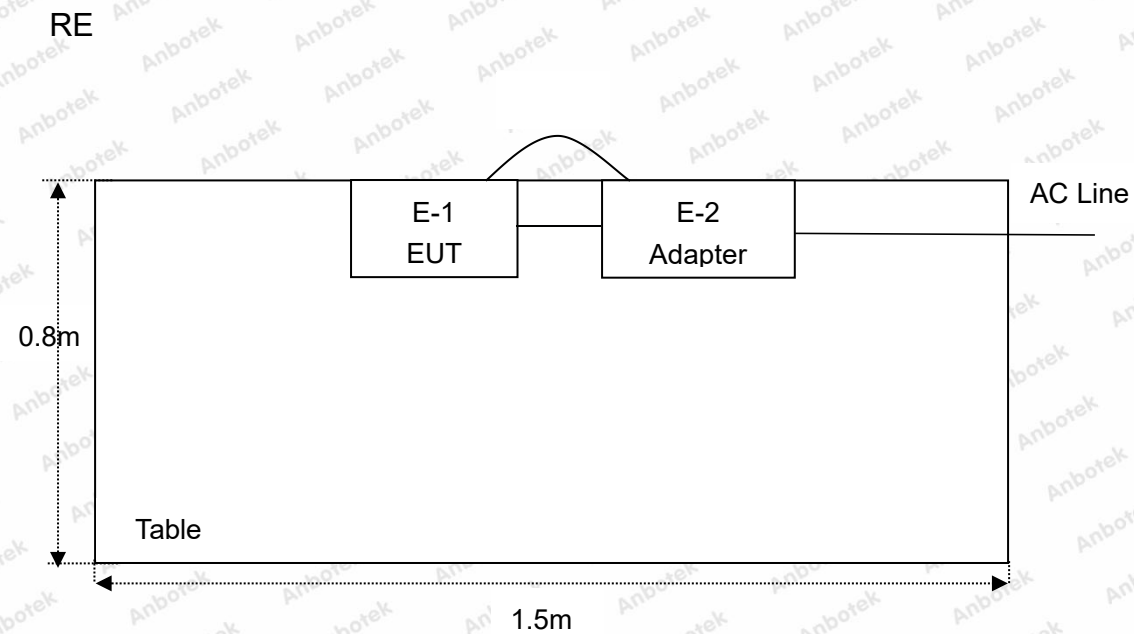
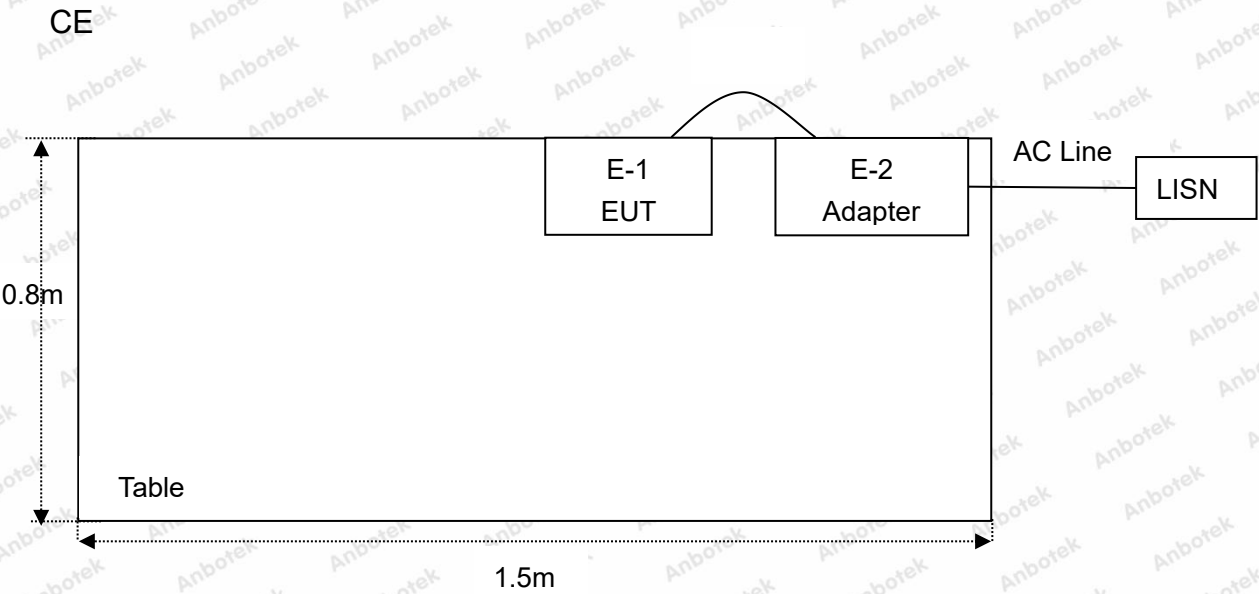
Frequency Band	Mode	Test channel	Frequency (MHz)
5.2GHz	OFDM 802.11a/n(HT20) /ac(HT20)	CH 36	5180MHz
		CH 40	5200MHz
		CH 48	5240MHz
	OFDM 802.11n(HT40)/ac(HT40)	CH 38	5190MHz
		CH 46	5230MHz
		CH 42	5210MHz
5.8GHz	OFDM 802.11a/n(HT20) /ac(HT20)	CH 149	5745MHz
		CH 157	5785MHz
		CH 165	5825MHz
	OFDM 802.11n(HT40)/ac(HT40)	CH 151	5755MHz
		CH 159	5795MHz
		CH 155	5775MHz

Note:

1. The measurements are performed at the highest, middle, lowest available channels.
2. The EUT has been tested as an independent unit. And Continual Transmitting in maximum power.
3. For the relevant Conducted Measurement, the temporary antenna connector is used during the measurement. Antenna Connector Impedance: 50Ω, Cable Loss: 1.0 dB
4. The EUT was programmed to be in continuously transmitting mode.



1.5. Description Of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 23, 2022	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2022	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 13, 2022	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Year
5.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2022	1 Year
6.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 13, 2022	1 Year
7.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	Oct. 13, 2022	1 Year
8.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 23, 2022	1 Year
10.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 23, 2022	1 Year
11.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Oct. 23, 2022	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	Oct. 23, 2022	1 Year
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
14.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 13, 2022	1 Year
15.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 13, 2022	1 Year
16.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 13, 2022	1 Year
17.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2022	1 Year
18.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 19, 2022	1 Year



1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, 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 No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



2. Summary of Test Results

Standard	Test Type	Result
15.207 & 15.407(b)	Conducted Emission	PASS
15.205 & 15.209	Spurious Emission	PASS
15.407(b)	Band Edge	PASS
15.407(a) & 2.1049	26dB Bandwidth & 99% Occupied Bandwidth	PASS
15.407(e)	Minimum 6dB bandwidth (5.725-5.85GHz band)	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(a)	Peak Power Spectral Density	PASS
15.407(g)	Frequency Stability	PASS
15.203	Antenna Requirement	PASS



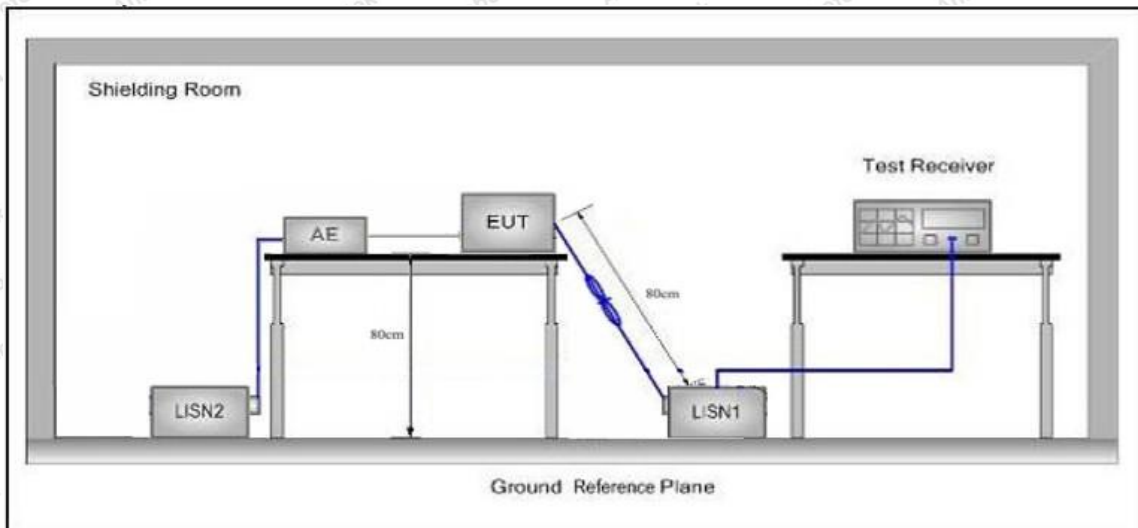
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207 & 15.407(b)		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

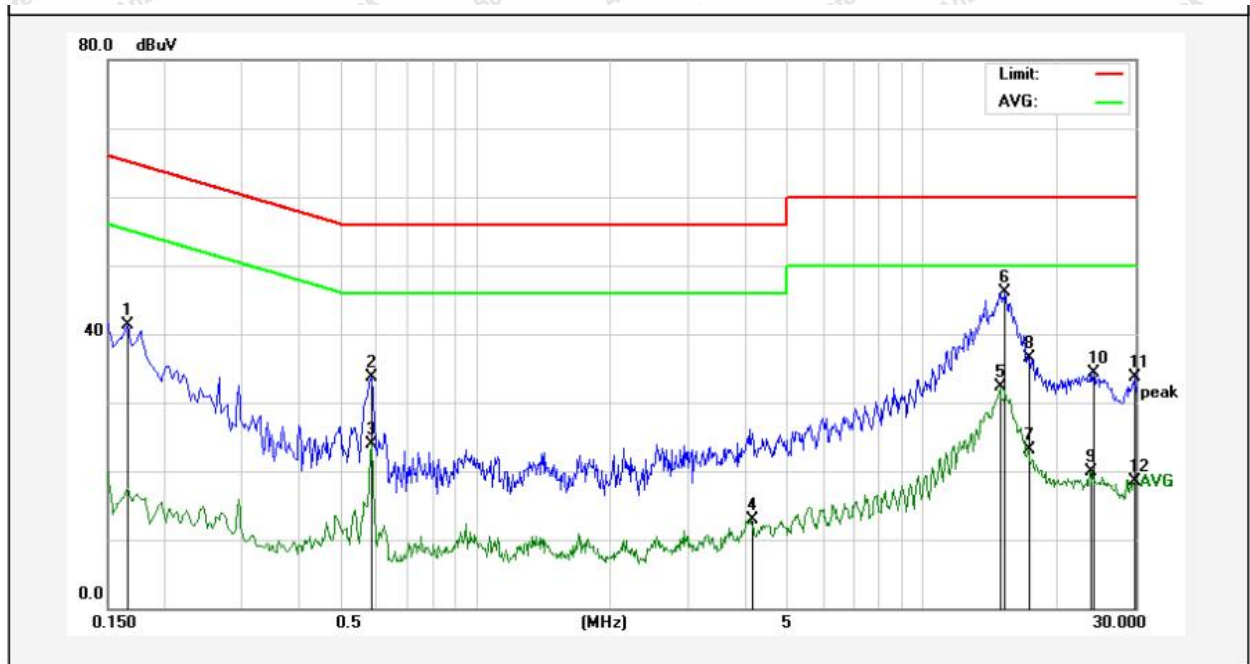
During the test, pre-scan all modes, only the worst case is recorded in the report.

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: 802.11n(HT40) 5190MHz MIMO
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Temp.(°C)/Hum.(%RH): 23.9°C/45%RH

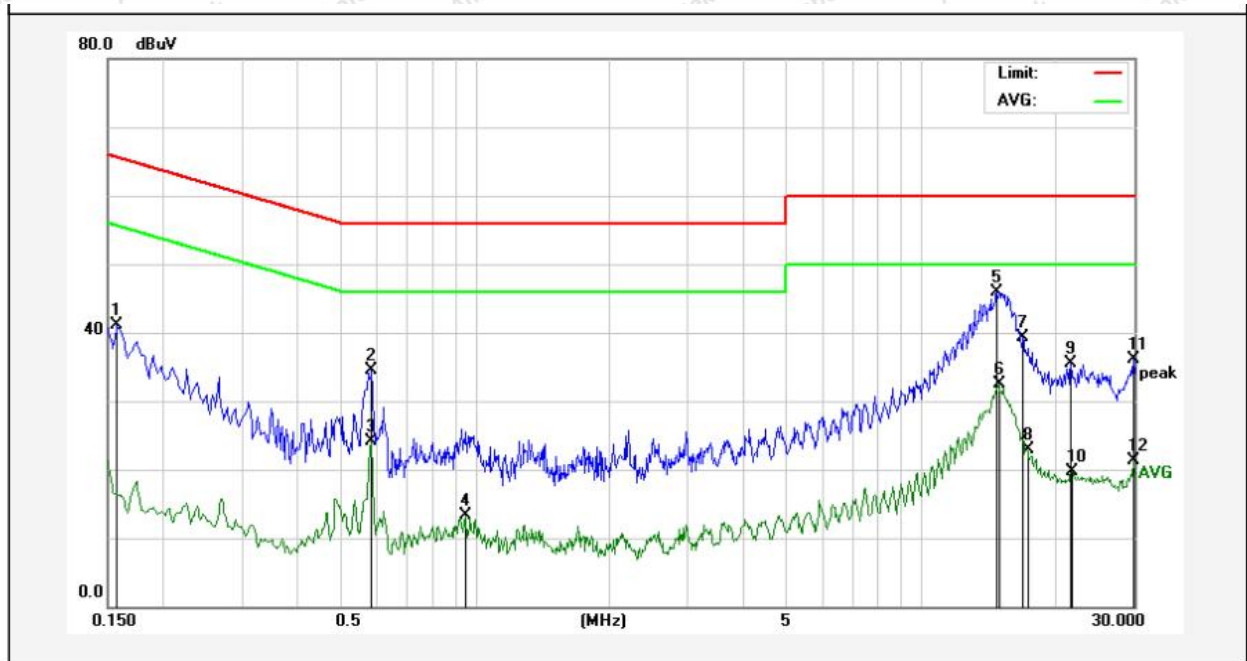


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1660	31.54	9.70	41.24	65.15	-23.91	QP	
2	0.5860	23.94	9.76	33.70	56.00	-22.30	QP	
3	0.5860	14.05	9.76	23.81	46.00	-22.19	AVG	
4	4.1500	3.25	9.73	12.98	46.00	-33.02	AVG	
5	14.9580	22.24	9.99	32.23	50.00	-17.77	AVG	
6	15.3300	36.01	10.00	46.01	60.00	-13.99	QP	
7	17.3020	13.06	10.05	23.11	50.00	-26.89	AVG	
8	17.4060	26.36	10.05	36.41	60.00	-23.59	QP	
9	23.7220	9.79	10.11	19.90	50.00	-30.10	AVG	
10	24.1540	24.11	10.11	34.22	60.00	-25.78	QP	
11	29.9340	23.49	10.31	33.80	60.00	-26.20	QP	
12	29.9340	8.12	10.31	18.43	50.00	-31.57	AVG	



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: 802.11n(HT40) 5190MHz MIMO
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Temp.(°C)/Hum.(%RH): 23.9°C/45%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	31.34	9.70	41.04	65.56	-24.52	QP	
2	0.5860	24.83	9.76	34.59	56.00	-21.41	QP	
3	0.5860	14.41	9.76	24.17	46.00	-21.83	AVG	
4	0.9500	3.64	9.74	13.38	46.00	-32.62	AVG	
5	14.7500	36.00	9.98	45.98	60.00	-14.02	QP	
6	14.9100	22.51	9.99	32.50	50.00	-17.50	AVG	
7	16.8700	29.23	10.04	39.27	60.00	-20.73	QP	
8	17.2660	12.91	10.05	22.96	50.00	-27.04	AVG	
9	21.6380	25.48	10.11	35.59	60.00	-24.41	QP	
10	21.7340	9.55	10.11	19.66	50.00	-30.34	AVG	
11	29.9420	25.72	10.31	36.03	60.00	-23.97	QP	
12	29.9420	10.96	10.31	21.27	50.00	-28.73	AVG	



4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Radiated Spurious Emission					
Test Standard	FCC Part15 C Section 15.205 & 15.209				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
-		68.2	Peak	3	
Band Edge					
Test Standard	15.407(b)				
Test Limit	Operating Band	Frequency	EIRP Limit		Remark
	5150-5250MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m		Peak
	5250-5350MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m		Peak
	5470-5725MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m		Peak
	5725-5850 MHz	Above 1GHz	-27dBm/MHz(68.2dBuV/m)@3m		Peak
		1GHz-5.65GHz	-27*dBm/MHz to 10dBm/MHz (68.2* dBuV/m to 105.6dBuV/m)		Peak
		5.65GHz-5.7GHz	10*dBm/MHz to 15.6dBm/MHz (105.6*dBuV/m to 110.8dBuV/m)		Peak
		5.7GHz-5.72GHz	15.6*dBm/MHz to 27dBm/MHz (110.8dBuV/m to* 122.2dBuV/m)		Peak
	5.72GHz-5.725GHz	27dBm/MHz to 15.6*dBm/MHz (122.2dBuV/m to110.8* dBuV/m)		Peak	



	5.85GHz-5.855GHz	15.6dBm/MHz to 10*dBm/MHz (110.8dBuV/m to 105.6* dBuV/m)	Peak
	5.855GHz-5.875GHz	10dBm/MHz to -27*dBm/MHz (105.6dBuV/m to 68.2* dBuV/m)	Peak
	5.875GHz-5.925GHz	-27 dBm/MHz(68.2dBuV/m)@3m	Peak

Remark:

- (1)The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.
- (3)Above 1GHz limit: $E[dBuV/m] = EIRP[dBm] + 95.2=68.2 \text{ dBuV/m}$, for $EIPR[dBm]=-27dBm$.

4.2. Test Setup

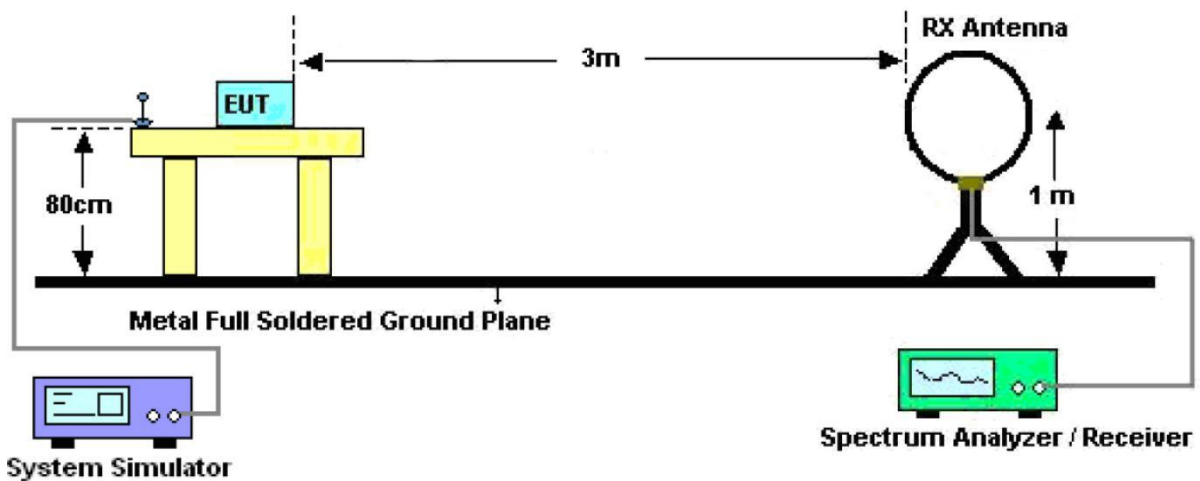


Figure 1. Below 30MHz



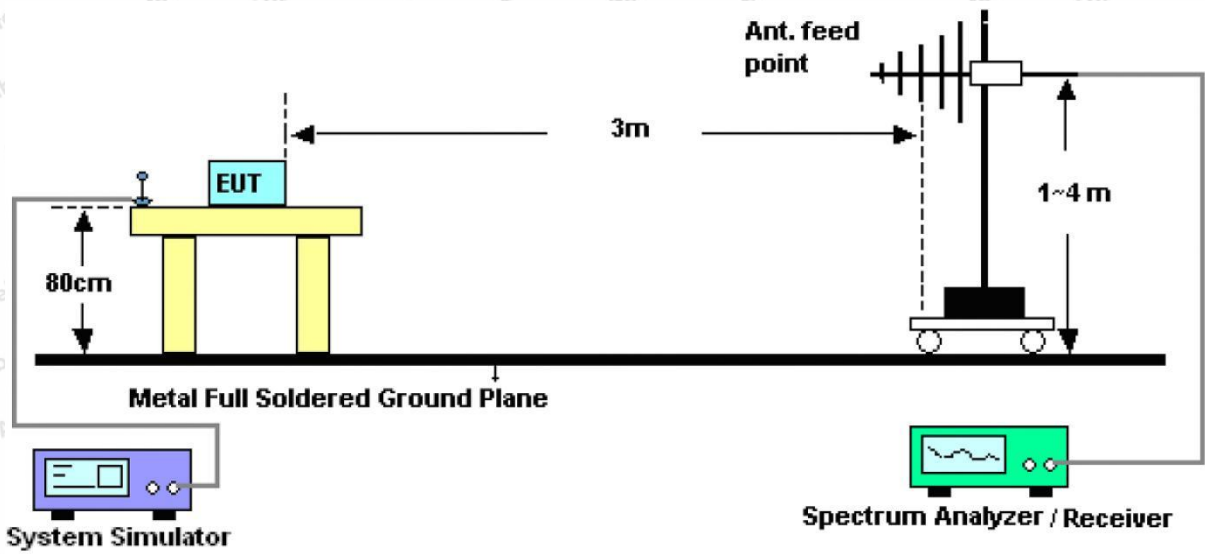


Figure 2. 30MHz to 1GHz

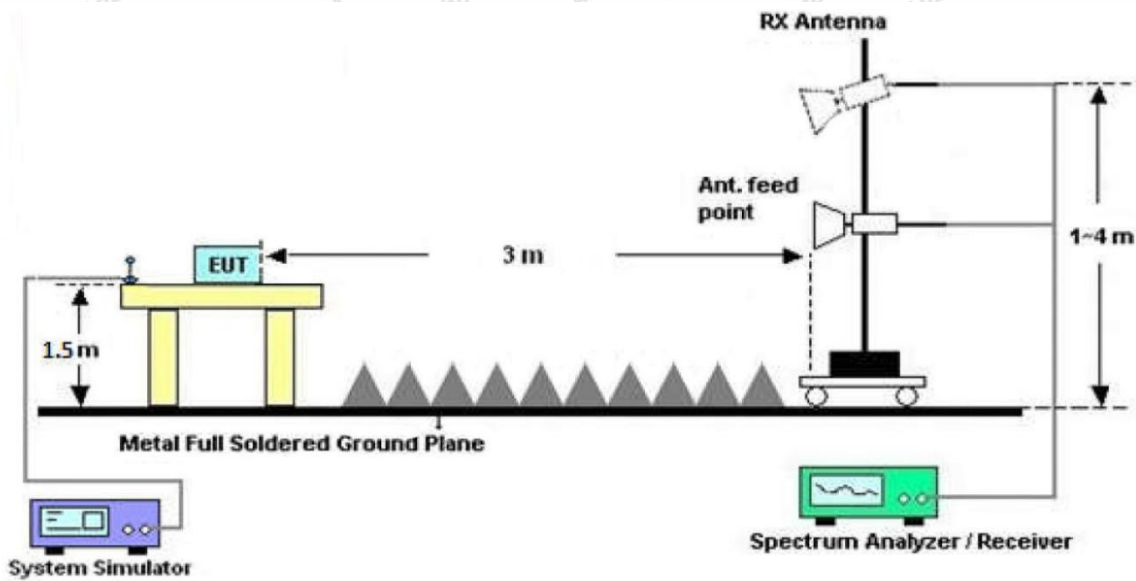


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.



For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW = 1MHz, VBW = 10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

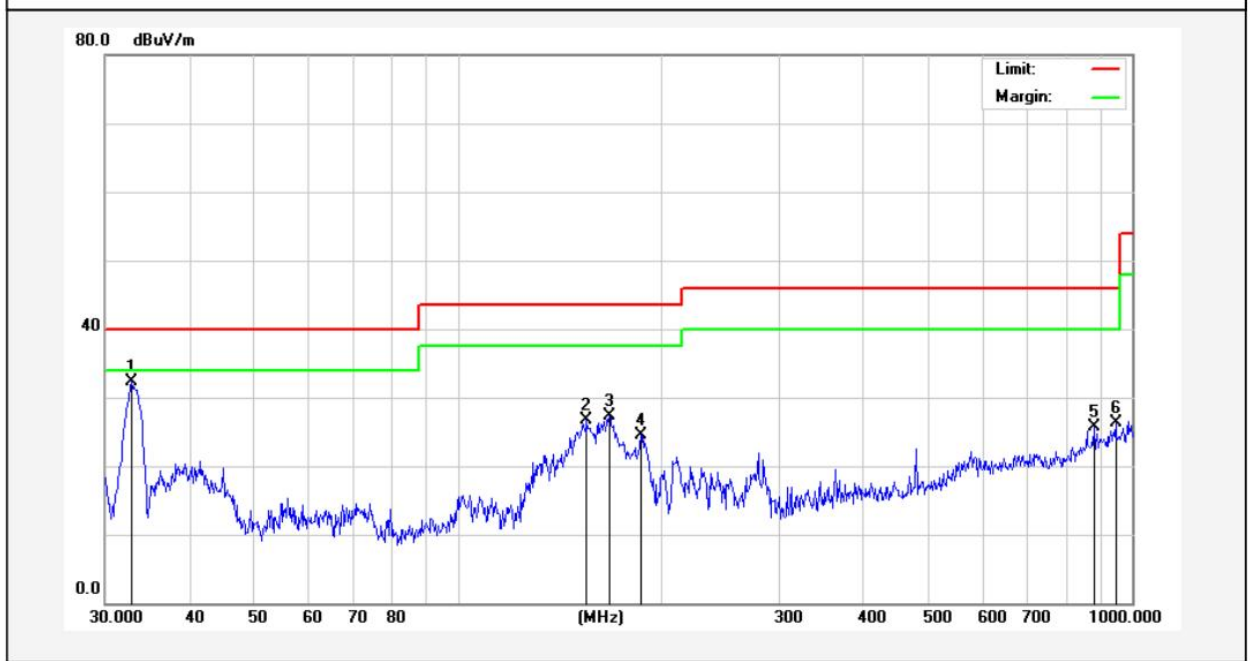
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, only the worst case is recorded in the report.



Test Results (30~1000MHz)

Test Mode: 802.11n(HT40) 5190MHz MIMO
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 23.6°C/47%RH

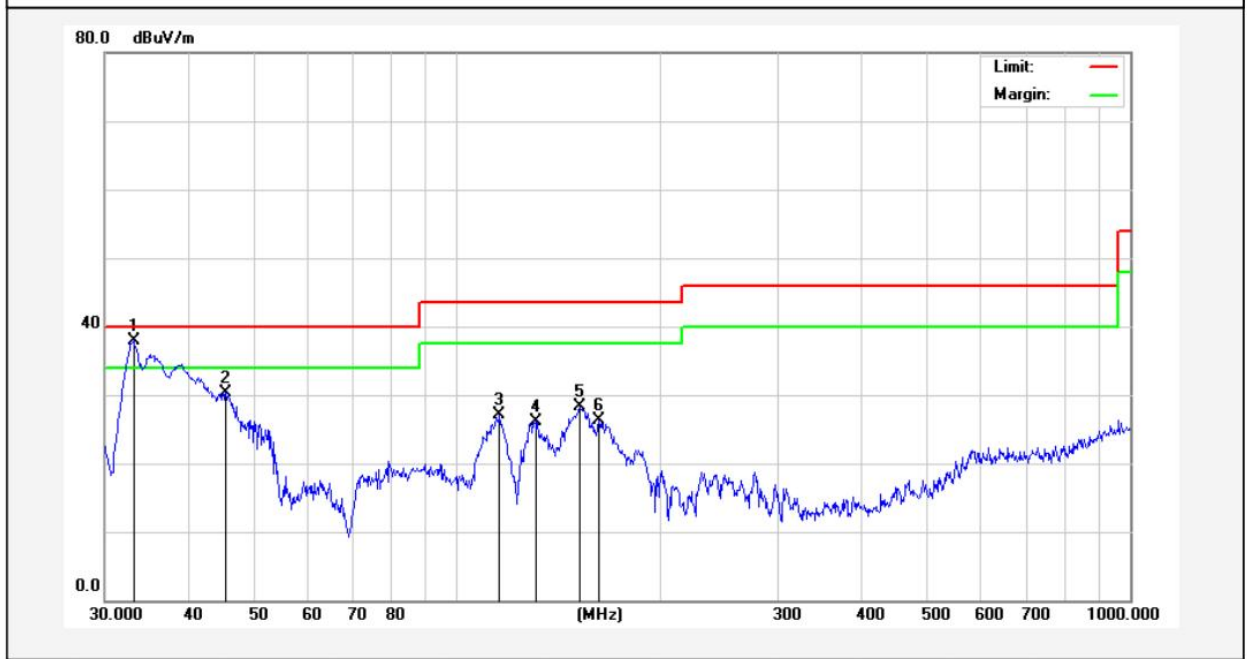


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	32.8637	51.46	-19.22	32.24	40.00	-7.76	QP			
2	155.3644	50.13	-23.48	26.65	43.50	-16.85	QP			
3	167.8243	51.01	-23.69	27.32	43.50	-16.18	QP			
4	187.0958	47.38	-22.89	24.49	43.50	-19.01	QP			
5	878.3214	32.56	-6.77	25.79	46.00	-20.21	QP			
6	945.4399	32.05	-5.69	26.36	46.00	-19.64	QP			



Test Results (30~1000MHz)

Test Mode: 802.11n(HT40) 5190MHz MIMO
 Power Source: AC 120V, 60Hz for Adapter
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 23.6°C/47%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	33.0950	55.35	-17.45	37.90	40.00	-2.10	QP			
2	45.3755	45.50	-15.11	30.39	40.00	-9.61	QP			
3	115.7256	46.25	-19.18	27.07	43.50	-16.43	QP			
4	130.8369	47.60	-21.52	26.08	43.50	-17.42	QP			
5	152.1297	50.30	-22.00	28.30	43.50	-15.20	QP			
6	162.6106	47.79	-21.52	26.27	43.50	-17.23	QP			



Test Results (Above 1000MHz)

Test Mode: IEEE 802.11n(HT40)							
Test channel: Low CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10380.00	29.43	23.81	53.24	68.20	-14.96	V	Peak
15570.00	30.60	28.91	59.51	68.20	-8.69	V	Peak
10380.00	30.36	23.81	54.17	68.20	-14.03	H	Peak
15570.00	31.31	28.91	60.22	68.20	-7.98	H	Peak
10380.00	20.09	23.81	43.90	54.00	-10.10	V	AVG
15570.00	20.51	28.91	49.42	54.00	-4.58	V	AVG
10380.00	20.31	23.81	44.12	54.00	-9.88	H	AVG
15570.00	20.53	28.91	49.44	54.00	-4.56	H	AVG
Test channel: High CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10460.00	29.64	23.80	53.44	68.20	-14.76	V	Peak
15690.00	30.85	30.03	60.88	68.20	-7.32	V	Peak
10460.00	30.35	23.80	54.15	68.20	-14.05	H	Peak
15690.00	31.52	30.03	61.55	68.20	-6.65	H	Peak
10460.00	20.20	23.80	44.00	54.00	-10.00	V	AVG
15690.00	20.46	30.03	50.49	54.00	-3.51	V	AVG
10460.00	20.35	23.80	44.15	54.00	-9.85	H	AVG
15690.00	20.45	30.03	50.48	54.00	-3.52	H	AVG

Remark:

1. During the test, pre-scan the 802.11a, 802.11n(HT20), ac(HT20), n(HT40), ac(HT40), ac(HT80) SISO and MIMO modes, and found the 802.11n(HT40) MIMO mode is worse case , the report only record this mode.
2. Result =Reading + Factor



For 5.2G ANT1:

Radiated Band Edge:

Test Mode: IEEE 802.11a							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.60	15.99	52.59	68.20	-15.61	H	Peak
5150.00	38.60	15.99	54.59	68.20	-13.61	V	Peak
5150.00	26.64	15.99	42.63	54.00	-11.37	H	AVG
5150.00	28.59	15.99	44.58	54.00	-9.42	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.15	16.43	53.58	68.20	-14.62	H	Peak
5350.00	39.85	16.43	56.28	68.20	-11.92	V	Peak
5350.00	28.33	16.43	44.76	54.00	-9.24	H	AVG
5350.00	29.37	16.43	45.80	54.00	-8.20	V	AVG

Remark: 1. Result =Reading + Factor

For 5.2G ANT2:

Radiated Band Edge:

Test Mode: IEEE 802.11a							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.89	15.99	52.88	68.20	-15.32	H	Peak
5150.00	38.95	15.99	54.94	68.20	-13.26	V	Peak
5150.00	26.85	15.99	42.84	54.00	-11.16	H	AVG
5150.00	28.88	15.99	44.87	54.00	-9.13	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.36	16.43	53.79	68.20	-14.41	H	Peak
5350.00	40.26	16.43	56.69	68.20	-11.51	V	Peak
5350.00	28.66	16.43	45.09	54.00	-8.91	H	AVG
5350.00	29.58	16.43	46.01	54.00	-7.99	V	AVG

Remark: 1. Result =Reading + Factor



For 5.2G MIMO:**Radiated Band Edge:**

Test Mode: IEEE 802.11n(HT20)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.87	15.99	51.86	68.20	-16.34	H	Peak
5150.00	37.24	15.99	53.23	68.20	-14.97	V	Peak
5150.00	26.59	15.99	42.58	54.00	-11.42	H	AVG
5150.00	27.59	15.99	43.58	54.00	-10.42	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.68	16.43	54.11	68.20	-14.09	H	Peak
5350.00	38.73	16.43	55.16	68.20	-13.04	V	Peak
5350.00	27.70	16.43	44.13	54.00	-9.87	H	AVG
5350.00	29.13	16.43	45.56	54.00	-8.44	V	AVG

Remark:

1. Result =Reading + Factor
2. During the test, pre-scan 802.11n(HT20) SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.

Test Mode: IEEE 802.11n(HT40)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.38	15.99	52.37	68.20	-15.83	H	Peak
5150.00	38.23	15.99	54.22	68.20	-13.98	V	Peak
5150.00	26.94	15.99	42.93	54.00	-11.07	H	AVG
5150.00	28.71	15.99	44.70	54.00	-9.30	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	38.01	16.43	54.44	68.20	-13.76	H	Peak
5350.00	36.91	16.43	53.34	68.20	-14.86	V	Peak
5350.00	28.19	16.43	44.62	54.00	-9.38	H	AVG
5350.00	29.38	16.43	45.81	54.00	-8.19	V	AVG

Remark:

1. Result =Reading + Factor
2. During the test, pre-scan 802.11n(HT40) SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.

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Test Mode: IEEE 802.11ac(HT20)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.83	15.99	52.82	68.20	-15.38	H	Peak
5150.00	38.57	15.99	54.56	68.20	-13.64	V	Peak
5150.00	26.50	15.99	42.49	54.00	-11.51	H	AVG
5150.00	28.66	15.99	44.65	54.00	-9.35	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.82	16.43	54.25	68.20	-13.95	H	Peak
5350.00	38.08	16.43	54.51	68.20	-13.69	V	Peak
5350.00	27.72	16.43	44.15	54.00	-9.85	H	AVG
5350.00	28.25	16.43	44.68	54.00	-9.32	V	AVG

Remark:

1. Result =Reading + Factor
2. During the test, pre-scan 802.11ac(HT20) SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.

Test Mode: IEEE 802.11ac(HT40)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.79	15.99	51.78	68.20	-16.42	H	Peak
5150.00	36.26	15.99	52.25	68.20	-15.95	V	Peak
5150.00	25.93	15.99	41.92	54.00	-12.08	H	AVG
5150.00	26.71	15.99	42.70	54.00	-11.30	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.95	16.43	54.38	68.20	-13.82	H	Peak
5350.00	37.12	16.43	53.55	68.20	-14.65	V	Peak
5350.00	27.43	16.43	43.86	54.00	-10.14	H	AVG
5350.00	27.34	16.43	43.77	54.00	-10.23	V	AVG

Remark:

1. Result =Reading + Factor
2. During the test, pre-scan 802.11ac(HT40) SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.



Test Mode: IEEE 802.11ac(HT80)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.96	15.99	51.95	68.20	-16.25	H	Peak
5150.00	36.31	15.99	52.30	68.20	-15.90	V	Peak
5150.00	26.44	15.99	42.43	54.00	-11.57	H	AVG
5150.00	26.74	15.99	42.73	54.00	-11.27	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	38.17	16.43	54.60	68.20	-13.60	H	Peak
5350.00	37.34	16.43	53.77	68.20	-14.43	V	Peak
5350.00	28.64	16.43	45.07	54.00	-8.93	H	AVG
5350.00	28.01	16.43	44.44	54.00	-9.56	V	AVG

Remark:

1. Result = Reading + Factor
2. During the test, pre-scan 802.11ac(HT80) SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.



For 5.8G ANT1:**Radiated Band Edge:**

Test Mode: IEEE 802.11a							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.94	16.37	54.31	74.00	-19.69	H	Peak
5725.00	39.24	16.37	55.61	74.00	-18.39	V	Peak
5725.00	28.87	16.70	45.57	54.00	-8.43	H	AVG
5725.00	29.96	16.70	46.66	54.00	-7.34	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.85	17.21	56.06	68.20	-12.14	H	Peak
5850.00	39.17	17.21	56.38	68.20	-11.82	V	Peak
5850.00	28.87	17.21	46.08	54.00	-7.92	H	AVG
5850.00	28.93	17.21	46.14	54.00	-7.86	V	AVG

Remark: 1. Result =Reading + Factor

For 5.8G ANT2:**Radiated Band Edge:**

Test Mode: IEEE 802.11a							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.89	16.37	54.26	74.00	-19.74	H	Peak
5725.00	39.16	16.37	55.53	74.00	-18.47	V	Peak
5725.00	28.83	16.70	45.53	54.00	-8.47	H	AVG
5725.00	29.91	16.70	46.61	54.00	-7.39	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.78	17.21	55.99	68.20	-12.21	H	Peak
5850.00	39.09	17.21	56.30	68.20	-11.90	V	Peak
5850.00	28.82	17.21	46.03	54.00	-7.97	H	AVG
5850.00	28.88	17.21	46.09	54.00	-7.91	V	AVG

Remark: 1. Result =Reading + Factor

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For 5.8G MIMO:

Radiated Band Edge:

Test Mode: IEEE 802.11n(HT20)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.83	16.37	54.20	74.00	-19.80	H	Peak
5725.00	38.33	16.37	54.70	74.00	-19.30	V	Peak
5725.00	27.44	16.70	44.14	54.00	-9.86	H	AVG
5725.00	27.89	16.70	44.59	54.00	-9.41	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.02	17.21	54.23	68.20	-13.97	H	Peak
5850.00	37.71	17.21	54.92	68.20	-13.28	V	Peak
5850.00	27.21	17.21	44.42	54.00	-9.58	H	AVG
5850.00	28.14	17.21	45.35	54.00	-8.65	V	AVG

Remark:

1. Result = Reading + Factor
2. During the test, pre-scan 802.11n(HT20) SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.

Test Mode: IEEE 802.11n(HT40)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.41	16.37	53.78	74.00	-20.22	H	Peak
5725.00	38.21	16.37	54.58	74.00	-19.42	V	Peak
5725.00	26.81	16.70	43.51	54.00	-10.49	H	AVG
5725.00	28.24	16.70	44.94	54.00	-9.06	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.77	17.05	54.82	68.20	-13.38	H	Peak
5850.00	38.23	17.05	55.28	68.20	-12.92	V	Peak
5850.00	27.92	17.05	44.97	54.00	-9.03	H	AVG
5850.00	29.09	17.05	46.14	54.00	-7.86	V	AVG

Remark:

1. Result = Reading + Factor
2. During the test, pre-scan 802.11n(HT40) SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.



Test Mode: IEEE 802.11ac(HT20)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.11	16.37	53.48	74.00	-20.52	H	Peak
5725.00	37.39	16.37	53.76	74.00	-20.24	V	Peak
5725.00	28.11	16.70	44.81	54.00	-9.19	H	AVG
5725.00	28.78	16.70	45.48	54.00	-8.52	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.85	17.21	55.06	68.20	-13.14	H	Peak
5850.00	38.79	17.21	56.00	68.20	-12.20	V	Peak
5850.00	27.78	17.21	44.99	54.00	-9.01	H	AVG
5850.00	28.74	17.21	45.95	54.00	-8.05	V	AVG

Remark:

1. Result = Reading + Factor
2. During the test, pre-scan 802.11ac(HT20) SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.

Test Mode: IEEE 802.11ac(HT40)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	36.08	16.37	52.45	74.00	-21.55	H	Peak
5725.00	37.68	16.37	54.05	74.00	-19.95	V	Peak
5725.00	27.39	16.70	44.09	54.00	-9.91	H	AVG
5725.00	28.10	16.70	44.80	54.00	-9.20	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.46	17.21	54.67	68.20	-13.53	H	Peak
5850.00	38.18	17.21	55.39	68.20	-12.81	V	Peak
5850.00	27.43	17.21	44.64	54.00	-9.36	H	AVG
5850.00	26.97	17.21	44.18	54.00	-9.82	V	AVG

Remark:

1. Result = Reading + Factor
2. During the test, pre-scan 802.11ac(HT40) SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.



Test Mode: IEEE 802.11ac(HT80)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	35.39	16.37	51.76	74.00	-22.24	H	Peak
5725.00	36.84	16.37	53.21	74.00	-20.79	V	Peak
5725.00	26.27	16.70	42.97	54.00	-11.03	H	AVG
5725.00	26.98	16.70	43.68	54.00	-10.32	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.20	17.21	54.41	68.20	-13.79	H	Peak
5850.00	37.60	17.21	54.81	68.20	-13.39	V	Peak
5850.00	27.46	17.21	44.67	54.00	-9.33	H	AVG
5850.00	28.01	17.21	45.22	54.00	-8.78	V	AVG

Remark:

1. Result = Reading + Factor
2. During the test, pre-scan 802.11ac(HT80) SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.

Conducted Measurement:

Please refer to Appendix D of the Appendix Test Data.

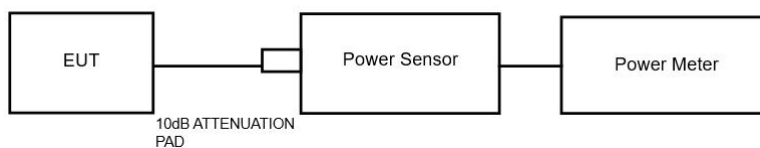


5. Maximum conducted output power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.407(a)	
Test Limit	5.15 - 5.25GHz	1) Outdoor AP The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 6\text{dBi}$, then $P_{out} = 30 - (GT_x - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125\text{mW}$ (21dBm)
		2) Indoor AP The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 6\text{dBi}$, then $P_{out} = 30 - (GT_x - 6)$.
		3) Point-to-point AP The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 23\text{dBi}$, then $P_{out} = 30 - (GT_x - 23)$.
		4) Client devices The maximum conducted output power (Pout) shall not exceed the lesser of 250W (23.98dBm). if $GT_x > 6\text{dBi}$, then $P_{out} = 24 - (GT_x - 6)$.
	5.25 - 5.35GHz	The maximum conducted output power (Pout) shall not exceed the lesser of 250mW (24dBm) or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in MHz. if $GT_x > 6\text{dBi}$, then $P_{out} = 24 - (GT_x - 6)$.
5.47- 5.725GHz	The maximum conducted output power (Pout) shall not exceed the lesser of 250mW (23.98dBm) or $11\text{dBm} + 10 \log B$, where B is the 26dB emission bandwidth in MHz. if $GT_x > 6\text{dBi}$, then $P_{out} = 24 - (GT_x - 6)$.	
5.725 - 5.85GHz	1) Point-to-multipoint systems (P2M) The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 6\text{dBi}$, then $P_{out} = 30 - (GT_x - 6)$. 2) Point-to-point systems (P2P) The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm).	

5.2. Test Setup



5.3. Test Procedure

1. The Transmitter output (antenna port) was connected to the power meter.
2. Turn on the EUT and power meter and then record the power value.
3. Repeat above procedures on all channels needed to be tested.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

5.4. Test Data

Pass

Please refer to Appendix C of the Appendix Test Data.

Additional test for duty cycle.

Please refer to Appendix B of the Appendix Test Data.

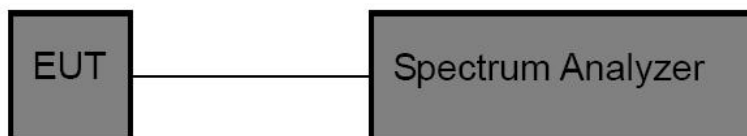


6. 26dB Bandwidth & 99% Occupied Bandwidth Test

6.1. Test Standard

Test Standard	FCC Part15 C Section 15.407(a) & 2.1049
Test Limit	N/A

6.2. Test Setup



6.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
 - 26 dB & 99% bandwidth**
 - RBW = approximately 1% of the emission bandwidth;
 - Set the VBW > RBW;
 - Detector= Peak
 - Trace mode= Max hold.
 - Sweep- auto couple.
4. Measure the maximum width of the emission that is 26dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer.
5. Repeat until all the rest channels are investigated.

6.4. Test Data

Pass

Please refer to Appendix A1&A2 of the Appendix Test Data.

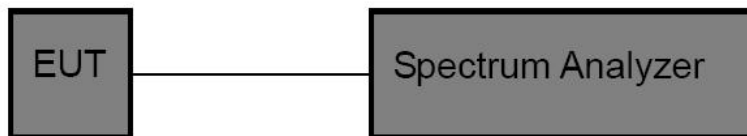


7. Minimum 6dB bandwidth Test

7.1. Test Standard

Test Standard	FCC Part15 C Section 15.407(e)
Test Limit	≥ 500 kHz

7.2. Test Setup



7.3. Test Procedure

- Place the EUT on the table and set it in the transmitting mode.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- Set the spectrum analyzer as:
 - 6 dB bandwidth**
 - RBW = approximately 1% of the emission bandwidth;
 - Set the VBW > RBW;
 - Detector= Peak
 - Trace mode= Max hold.
 - Sweep- auto couple.
- Measure the maximum width of the emission that is 6dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer.
- Repeat until all the rest channels are investigated.

7.4. Test Data

Pass

Please refer to Appendix A3 of the Appendix Test Data.

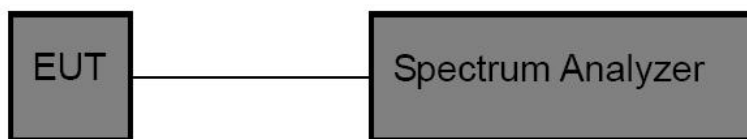


8. Power Spectral Density Test

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.407(a)	
Test Limit	5.15 - 5.25GHz	1) Outdoor AP The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. if $GT_x > 6\text{dBi}$, then $PSD = 17 - (GT_x - 6)$. 2) Indoor AP The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. if $GT_x > 6\text{dBi}$, then $PSD = 17 - (GT_x - 6)$. 3) Point-to-point AP The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. if $GT_x > 23\text{dBi}$, then $PSD = 17 - (GT_x - 23)$. 4) Client devices The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. if $GT_x > 6\text{dBi}$, then $PSD = 11 - (GT_x - 6)$.
	5.25 - 5.35GHz	The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. if $GT_x > 6\text{dBi}$, then $PSD = 11 - (GT_x - 6)$.
	5.47- 5.725GHz	The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. if $GT_x > 6\text{dBi}$, then $PSD = 11 - (GT_x - 6)$.
	5.725 - 5.85GHz	1) Point-to-multipoint systems (P2M) The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz. if $GT_x > 6\text{dBi}$, then $PSD = 30 - (GT_x - 6)$. 2) Point-to-point systems (P2P) The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

8.2. Test Setup



8.3. Test Procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz).

1. The EUT is directly connected to the spectrum analyzer;
2. Set RBW = 1MHz;



3. Set VBW \geq 3 RBW=3MHz;
3. Set the span to encompass the entire emissions bandwidth (EBW) of the signal;
5. Detector=RMS;
6. Sweep time= auto couple;
7. Trace mode=max. hold;

8.4. Test Data

Pass

Please refer to Appendix D of the Appendix Test Data.

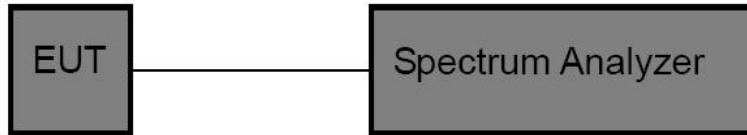


9. Frequency Stability

9.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.407(g)
Test Limit	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

9.2. Test Setup



9.3. Test Procedure

The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

9.4. Test Data

Pass

Please to see the following pages.



Test Mode: 5.2G								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit	Verdict	
802.11a	SISO	5180	20	6.29	5180.11	5172 to 5188	Pass	
				7.40	5180.05	5172 to 5188	Pass	
				8.51	5180.08	5172 to 5188	Pass	
			-30	7.40	5180.04	5172 to 5188	Pass	
				-20	7.40	5180.11	5150 to 5250	Pass
					-10	7.40	5180.08	5150 to 5250
			0	7.40	5180.08	5150 to 5250	Pass	
				10	7.40	5180.07	5150 to 5250	Pass
			30	7.40	5180.01	5150 to 5250	Pass	
		40		7.40	5180.10	5150 to 5250	Pass	
		50	7.40	5180.12	5172 to 5188	Pass		
		5200	20	6.29	5200.11	5192 to 5208	Pass	
				7.40	5200.06	5192 to 5208	Pass	
				8.51	5200.09	5192 to 5208	Pass	
			-30	7.40	5200.08	5192 to 5208	Pass	
				-20	7.40	5200.00	5150 to 5250	Pass
			-10	7.40	5200.12	5150 to 5250	Pass	
				0	7.40	5200.11	5150 to 5250	Pass
			10	7.40	5200.07	5150 to 5250	Pass	
				30	7.40	5200.12	5150 to 5250	Pass
			40	7.40	5200.05	5150 to 5250	Pass	
			50	7.40	5200.04	5192 to 5208	Pass	
			5240	20	6.29	5240.05	5232 to 5248	Pass
					7.40	5240.03	5232 to 5248	Pass
					8.51	5240.03	5232 to 5248	Pass
				-30	7.40	5240.06	5232 to 5248	Pass
					-20	7.40	5240.03	5150 to 5250
-10	7.40			5240.12	5150 to 5250	Pass		
	0			7.40	5240.08	5150 to 5250	Pass	
10	7.40	5240.06		5150 to 5250	Pass			
30	7.40	5240.02		5150 to 5250	Pass			
40	7.40	5240.13	5150 to 5250	Pass				
50	7.40	5240.02	5232 to 5248	Pass				
802.11n (HT20)	MIMO	5180	20	6.29	5180.04	5172 to 5188	Pass	
				7.40	5180.06	5172 to 5188	Pass	
				8.51	5180.05	5172 to 5188	Pass	
			-30	7.40	5180.11	5172 to 5188	Pass	
				-20	7.40	5180.05	5150 to 5250	Pass
			-10	7.40	5180.04	5150 to 5250	Pass	
				0	7.40	5180.06	5150 to 5250	Pass
			10	7.40	5180.07	5150 to 5250	Pass	



		5200	30	7.40	5180.13	5150 to 5250	Pass
			40	7.40	5180.02	5150 to 5250	Pass
			50	7.40	5180.05	5172 to 5188	Pass
			20	6.29	5200.12	5192 to 5208	Pass
				7.40	5200.08	5192 to 5208	Pass
				8.51	5200.05	5192 to 5208	Pass
			-30	7.40	5200.06	5192 to 5208	Pass
			-20	7.40	5200.10	5150 to 5250	Pass
			-10	7.40	5200.07	5150 to 5250	Pass
			0	7.40	5200.07	5150 to 5250	Pass
			10	7.40	5200.07	5150 to 5250	Pass
			30	7.40	5200.00	5150 to 5250	Pass
		40	7.40	5200.04	5150 to 5250	Pass	
		50	7.40	5200.10	5192 to 5208	Pass	
		5240	20	6.29	5240.00	5232 to 5248	Pass
				7.40	5240.05	5232 to 5248	Pass
				8.51	5240.03	5232 to 5248	Pass
			-30	7.40	5240.10	5232 to 5248	Pass
			-20	7.40	5240.07	5150 to 5250	Pass
			-10	7.40	5240.07	5150 to 5250	Pass
			0	7.40	5240.01	5150 to 5250	Pass
			10	7.40	5240.04	5150 to 5250	Pass
			30	7.40	5240.03	5150 to 5250	Pass
			40	7.40	5240.04	5150 to 5250	Pass
50	7.40		5240.02	5232 to 5248	Pass		
802.11n (HT40)	MIMO		5190	20	6.29	5190.11	5174 to 5206
		7.40			5190.06	5174 to 5206	Pass
		8.51			5190.08	5174 to 5206	Pass
		-30		7.40	5190.02	5174 to 5206	Pass
		-20		7.40	5190.11	5150 to 5250	Pass
		-10		7.40	5190.13	5150 to 5250	Pass
		0		7.40	5190.06	5150 to 5250	Pass
		10		7.40	5190.03	5150 to 5250	Pass
		30		7.40	5190.04	5150 to 5250	Pass
		40	7.40	5190.04	5150 to 5250	Pass	
		50	7.40	5190.09	5174 to 5206	Pass	
		5230	20	6.29	5230.11	5214 to 5246	Pass
				7.40	5230.06	5214 to 5246	Pass
				8.51	5230.13	5214 to 5246	Pass
			-30	7.40	5230.07	5214 to 5246	Pass
			-20	7.40	5230.01	5150 to 5250	Pass
			-10	7.40	5230.10	5150 to 5250	Pass
			0	7.40	5230.08	5150 to 5250	Pass
10	7.40		5230.08	5150 to 5250	Pass		



802.11ac (VHT20)	MIMO	5180	30	7.40	5230.09	5150 to 5250	Pass
			40	7.40	5230.11	5150 to 5250	Pass
			50	7.40	5230.03	5214 to 5246	Pass
		5180	20	6.29	5180.08	5172 to 5188	Pass
				7.40	5180.03	5172 to 5188	Pass
				8.51	5180.05	5172 to 5188	Pass
			-30	7.40	5180.04	5172 to 5188	Pass
			-20	7.40	5180.12	5150 to 5250	Pass
			-10	7.40	5180.01	5150 to 5250	Pass
			0	7.40	5180.08	5150 to 5250	Pass
			10	7.40	5180.01	5150 to 5250	Pass
			30	7.40	5180.12	5150 to 5250	Pass
			40	7.40	5180.11	5150 to 5250	Pass
			50	7.40	5180.11	5172 to 5188	Pass
		5200	20	6.29	5200.04	5192 to 5208	Pass
				7.40	5200.03	5192 to 5208	Pass
				8.51	5200.10	5192 to 5208	Pass
			-30	7.40	5200.00	5192 to 5208	Pass
			-20	7.40	5200.05	5150 to 5250	Pass
			-10	7.40	5200.09	5150 to 5250	Pass
			0	7.40	5200.07	5150 to 5250	Pass
			10	7.40	5200.13	5150 to 5250	Pass
			30	7.40	5200.05	5150 to 5250	Pass
			40	7.40	5200.10	5150 to 5250	Pass
			50	7.40	5200.06	5192 to 5208	Pass
		5240	20	6.29	5240.13	5232 to 5248	Pass
				7.40	5240.02	5232 to 5248	Pass
8.51	5240.10			5232 to 5248	Pass		
-30	7.40		5240.04	5232 to 5248	Pass		
-20	7.40		5240.11	5150 to 5250	Pass		
-10	7.40		5240.01	5150 to 5250	Pass		
0	7.40		5240.12	5150 to 5250	Pass		
10	7.40		5240.12	5150 to 5250	Pass		
30	7.40		5240.13	5150 to 5250	Pass		
40	7.40		5240.08	5150 to 5250	Pass		
50	7.40		5240.02	5232 to 5248	Pass		
802.11ac (VHT40)	MIMO	5190	20	6.29	5190.09	5174 to 5206	Pass
				7.40	5190.01	5174 to 5206	Pass
				8.51	5190.04	5174 to 5206	Pass
			-30	7.40	5190.13	5174 to 5206	Pass
			-20	7.40	5190.02	5150 to 5250	Pass
			-10	7.40	5190.10	5150 to 5250	Pass
			0	7.40	5190.02	5150 to 5250	Pass
			10	7.40	5190.07	5150 to 5250	Pass



		5230	30	7.40	5190.05	5150 to 5250	Pass
			40	7.40	5190.04	5150 to 5250	Pass
			50	7.40	5190.04	5174 to 5206	Pass
			20	6.29	5230.05	5214 to 5246	Pass
				7.40	5230.09	5214 to 5246	Pass
				8.51	5230.02	5214 to 5246	Pass
			-30	7.40	5230.10	5214 to 5246	Pass
			-20	7.40	5230.09	5150 to 5250	Pass
			-10	7.40	5230.09	5150 to 5250	Pass
			0	7.40	5230.01	5150 to 5250	Pass
			10	7.40	5230.02	5150 to 5250	Pass
			30	7.40	5230.00	5150 to 5250	Pass
			40	7.40	5230.08	5150 to 5250	Pass
			50	7.40	5230.01	5214 to 5246	Pass
802.11ac (VHT80)	MIMO	5210	20	6.29	5210.04	5178 to 5242	Pass
				7.40	5210.02	5178 to 5242	Pass
				8.51	5210.01	5178 to 5242	Pass
			-30	7.40	5210.01	5178 to 5242	Pass
			-20	7.40	5210.10	5150 to 5250	Pass
			-10	7.40	5210.04	5150 to 5250	Pass
			0	7.40	5210.04	5150 to 5250	Pass
			10	7.40	5210.06	5150 to 5250	Pass
			30	7.40	5210.00	5150 to 5250	Pass
			40	7.40	5210.02	5150 to 5250	Pass
50	7.40	5210.01	5178 to 5242	Pass			



Test Mode: 5.8G								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit	Verdict	
802.11a	MIMO	5745	20	6.29	5745.11	5737 to 5753	Pass	
				7.40	5745.01	5737 to 5753	Pass	
				8.51	5745.02	5737 to 5753	Pass	
			-30	6.29	5745.03	5737 to 5753	Pass	
				-20	7.40	5745.12	5725 to 5850	Pass
				-10	7.40	5745.07	5725 to 5850	Pass
			5785	20	6.29	5785.09	5777 to 5793	Pass
					7.40	5785.01	5777 to 5793	Pass
					8.51	5785.13	5777 to 5793	Pass
		-30		6.29	5785.00	5777 to 5793	Pass	
				-20	7.40	5785.10	5725 to 5850	Pass
				-10	7.40	5785.01	5725 to 5850	Pass
		5825		20	6.29	5825.10	5817 to 5833	Pass
					7.40	5825.01	5817 to 5833	Pass
					8.51	5825.10	5817 to 5833	Pass
			-30	6.29	5825.01	5817 to 5833	Pass	
				-20	7.40	5825.12	5725 to 5850	Pass
				-10	7.40	5825.11	5725 to 5850	Pass
			5745	20	6.29	5745.01	5737 to 5753	Pass
					7.40	5745.05	5737 to 5753	Pass
					8.51	5745.00	5737 to 5753	Pass
		-30		6.29	5745.02	5737 to 5753	Pass	
				-20	7.40	5745.04	5725 to 5850	Pass
				-10	7.40	5745.07	5725 to 5850	Pass
		0		7.40	5745.04	5725 to 5850	Pass	
				10	7.40	5745.06	5725 to 5850	Pass
				50	7.40	5745.06	5725 to 5850	Pass



802.11n (HT40)	5785	30	7.40	5745.02	5725 to 5850	Pass
		40	7.40	5745.08	5725 to 5850	Pass
		50	7.40	5745.11	5737 to 5753	Pass
		20	6.29	5785.08	5777 to 5793	Pass
			7.40	5785.04	5777 to 5793	Pass
			8.51	5785.01	5777 to 5793	Pass
		-30	6.29	5785.08	5777 to 5793	Pass
		-20	7.40	5785.12	5725 to 5850	Pass
		-10	7.40	5785.10	5725 to 5850	Pass
		0	7.40	5785.05	5725 to 5850	Pass
		10	7.40	5785.01	5725 to 5850	Pass
		30	7.40	5785.04	5725 to 5850	Pass
		40	7.40	5785.02	5725 to 5850	Pass
		50	7.40	5785.13	5777 to 5793	Pass
		5825	20	6.29	5825.01	5817 to 5833
	7.40			5825.07	5817 to 5833	Pass
	8.51			5825.10	5817 to 5833	Pass
	-30		6.29	5825.02	5817 to 5833	Pass
	-20		7.40	5825.12	5725 to 5850	Pass
	-10		7.40	5825.11	5725 to 5850	Pass
	0		7.40	5825.13	5725 to 5850	Pass
	10		7.40	5825.07	5725 to 5850	Pass
	30		7.40	5825.03	5725 to 5850	Pass
	40		7.40	5825.01	5725 to 5850	Pass
	50		7.40	5825.12	5817 to 5833	Pass
	5755		20	6.29	5755.09	5739 to 5771
		7.40		5755.02	5739 to 5771	Pass
8.51		5755.04		5739 to 5771	Pass	
-30		6.29	5755.02	5739 to 5771	Pass	
-20		7.40	5755.08	5725 to 5850	Pass	
-10		7.40	5755.08	5725 to 5850	Pass	
0		7.40	5755.04	5725 to 5850	Pass	
10		7.40	5755.05	5725 to 5850	Pass	
30		7.40	5755.08	5725 to 5850	Pass	
40		7.40	5755.03	5725 to 5850	Pass	
50		7.40	5755.05	5739 to 5771	Pass	
5795		20	6.29	5795.05	5779 to 5811	Pass
			7.40	5795.10	5779 to 5811	Pass
			8.51	5795.06	5779 to 5811	Pass
		-30	6.29	5795.02	5779 to 5811	Pass
	-20	7.40	5795.11	5725 to 5850	Pass	
	-10	7.40	5795.12	5725 to 5850	Pass	
	0	7.40	5795.04	5725 to 5850	Pass	
	10	7.40	5795.11	5725 to 5850	Pass	



802.11ac (VHT20)	MIMO	5745	30	7.40	5795.11	5725 to 5850	Pass
			40	7.40	5795.01	5725 to 5850	Pass
			50	7.40	5795.05	5779 to 5811	Pass
		20	6.29	5745.03	5737 to 5753	Pass	
			7.40	5745.06	5737 to 5753	Pass	
			8.51	5745.07	5737 to 5753	Pass	
		-30	6.29	5745.09	5737 to 5753	Pass	
		-20	7.40	5745.05	5725 to 5850	Pass	
		-10	7.40	5745.11	5725 to 5850	Pass	
		0	7.40	5745.12	5725 to 5850	Pass	
		10	7.40	5745.06	5725 to 5850	Pass	
		30	7.40	5745.05	5725 to 5850	Pass	
		40	7.40	5745.07	5725 to 5850	Pass	
		50	7.40	5745.12	5737 to 5753	Pass	
		5785	20	6.29	5785.06	5777 to 5793	Pass
				7.40	5785.03	5777 to 5793	Pass
				8.51	5785.07	5777 to 5793	Pass
			-30	6.29	5785.03	5777 to 5793	Pass
			-20	7.40	5785.00	5725 to 5850	Pass
			-10	7.40	5785.11	5725 to 5850	Pass
			0	7.40	5785.05	5725 to 5850	Pass
			10	7.40	5785.02	5725 to 5850	Pass
			30	7.40	5785.11	5725 to 5850	Pass
			40	7.40	5785.10	5725 to 5850	Pass
			50	7.40	5785.04	5777 to 5793	Pass
			5825	20	6.29	5825.09	5817 to 5833
		7.40			5825.00	5817 to 5833	Pass
		8.51			5825.08	5817 to 5833	Pass
		-30		6.29	5825.12	5817 to 5833	Pass
		-20		7.40	5825.03	5725 to 5850	Pass
-10	7.40	5825.10		5725 to 5850	Pass		
0	7.40	5825.12		5725 to 5850	Pass		
10	7.40	5825.03		5725 to 5850	Pass		
30	7.40	5825.05		5725 to 5850	Pass		
40	7.40	5825.00		5725 to 5850	Pass		
50	7.40	5825.04		5817 to 5833	Pass		
802.11ac (VHT40)	MIMO	5755		20	6.29	5755.05	5739 to 5771
			7.40		5755.07	5739 to 5771	Pass
			8.51		5755.06	5739 to 5771	Pass
			-30	6.29	5755.10	5739 to 5771	Pass
			-20	7.40	5755.11	5725 to 5850	Pass
			-10	7.40	5755.00	5725 to 5850	Pass
			0	7.40	5755.09	5725 to 5850	Pass
			10	7.40	5755.03	5725 to 5850	Pass



		5795	30	7.40	5755.01	5725 to 5850	Pass
			40	7.40	5755.11	5725 to 5850	Pass
			50	7.40	5755.02	5739 to 5771	Pass
			20	6.29	5795.13	5779 to 5811	Pass
				7.40	5795.09	5779 to 5811	Pass
				8.51	5795.09	5779 to 5811	Pass
			-30	6.29	5795.08	5779 to 5811	Pass
			-20	7.40	5795.03	5725 to 5850	Pass
			-10	7.40	5795.01	5725 to 5850	Pass
			0	7.40	5795.01	5725 to 5850	Pass
			10	7.40	5795.04	5725 to 5850	Pass
			30	7.40	5795.05	5725 to 5850	Pass
			40	7.40	5795.10	5725 to 5850	Pass
			50	7.40	5795.09	5779 to 5811	Pass
802.11ac (VHT80)	MIMO	5775	20	6.29	5775.06	5743 to 5807	Pass
				7.40	5775.02	5743 to 5807	Pass
				8.51	5775.07	5743 to 5807	Pass
			-30	6.29	5775.10	5743 to 5807	Pass
			-20	7.40	5775.10	5725 to 5850	Pass
			-10	7.40	5775.04	5725 to 5850	Pass
			0	7.40	5775.10	5725 to 5850	Pass
			10	7.40	5775.05	5725 to 5850	Pass
			30	7.40	5775.03	5725 to 5850	Pass
			40	7.40	5775.03	5725 to 5850	Pass
			50	7.40	5775.12	5743 to 5807	Pass



10. Antenna Requirement

10.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /15.407
Requirement	<p>1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>2) 15.407 requirement: if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.</p>

10.2. Antenna Connected Construction

The antenna is a FPC Antenna which permanently attached, and the best case gain of the Wi-Fi 5.2G: ANT1: 0.95 dBi, ANT2: 1.63 dBi; Wi-Fi 5.8G: ANT1: 1.74 dBi, ANT2: 1.60 dBi. It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

