

FCC Test Report

Applicant : **Anker Innovations Limited**

Address : **Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong**

Product Name : **Nebula Capsule 3**

Report Date : **Oct. 31, 2023**

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Anker Innovations Limited
Manufacturer : Anker Innovations Limited
Product Name : Nebula Capsule 3
Test Model No. : D2425
Reference Model No. : N/A
Trade Mark : NEBULA
Rating(s) : Input: 20.0V $\overline{\text{---}}$ 2.25A (with DC 11.07V, 4700mAh battery inside)

Test Standard(s) : FCC Part15 Subpart E, Paragraph 15.407

ANSI C63.10: 2020

Test Method(s) : 789033 D02 General UNII Test Procedures New Rules v02r01
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

Sept. 22, 2023

Date of Test

Sept. 26 ~ Oct. 31, 2023

Prepared By

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(Ella Liang)

Approved & Authorized Signer

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Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-b

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Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 31, 2023



1. General Information

1.1. Client Information

Applicant	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong

1.2. Description of Device (EUT)

Product Name	:	Nebula Capsule 3
Test Model No.	:	D2425
Reference Model No.	:	N/A
Trade Mark	:	NEBULA
Test Power Supply	:	AC 120V, 60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Model: NSA45EU-20022500 Input: 100-240V~50/60Hz, 1.2A Output: 5.0V= 3.0A, 9.0V= 3.0A, 12.0V= 3.0A, 15.0V= 3.0A, 20.0V= 2.25A 45.0W

RF Specification

Operation Mode	:	☒ a ☒ n(HT20) ☒ n(HT40) ☒ ac(VHT20) ☒ ac(VHT40) ☒ ac(VHT80) ☐ ac(VHT160) ☐ ax(HEW20) ☐ ax(HEW40) ☐ ax(HEW80) ☐ ax(HEW160)
Device Type	:	☐ Outdoor AP ☐ Indoor AP ☐ Point-to-point AP ☒ Client
TPC Function	:	☐ With TPC ☒ Without TPC
DFS Type	:	☒ Slave without radar detection ☐ Slave with radar detection ☐ Master
Operation Frequency	:	☒ Wi-Fi 5.2G: 5180~5240MHz ☒ Wi-Fi 5.3G: 5260~5320MHz ☒ Wi-Fi 5.6G: 5500~5720MHz ☒ Wi-Fi 5.8G: 5745~5825MHz
Number of Channel	:	Wi-Fi 5.2G: ☒ 4 Channels for 20MHz bandwidth (5180-5240MHz) ☒ 2 Channels for 40MHz bandwidth (5190-5230MHz) ☒ 1 Channels for 80MHz bandwidth (5210MHz)



	Wi-Fi 5.3G: ☒ 4 Channels for 20MHz bandwidth (5260-5320MHz) ☒ 2 Channels for 40MHz bandwidth (5270-5310MHz) ☒ 1 Channels for 80MHz bandwidth (5290MHz) Wi-Fi 5.6G: ☒ 12 Channels for 20MHz bandwidth (5500-5720MHz) ☒ 6 Channels for 40MHz bandwidth (5510-5710MHz) ☒ 3 Channels for 80MHz bandwidth (5530~5690MHz) Wi-Fi 5.8G: ☒ 5 Channels for 20MHz bandwidth (5745MHz ~ 5825MHz) ☒ 2 Channels for 40MHz bandwidth (5755MHz ~ 5795MHz) ☒ 1 Channels for 80MHz bandwidth (5775MHz)
Modulation Type	☒ 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) ☒ 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) ☒ 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) ☐ 802.11ax: OFDMA(BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Antenna Type	FPC antenna
Antenna Gain(Peak)	ANT 1: 4.89dBi ANT 2: 4.54dBi
Directional antenna gain	7.73dBi
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) Only 802.11n(HT20), 802.11n(HT40), 802.11ac(HT20), 802.11ac(HT40), 802.11ac(HT80) support MIMO.	



1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
Master device	Equipment: AX3000 Dual-Band Gigabit Wi-Fi 6 Router Model: RX9 Pro FCC-ID: V7TRX9P

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.

1.5. Channel List of EUT

(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210		
(U-NII-2A) 5260MHz-5320MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	52	5260	56	5280
	60	5300	64	5320
40MHz	54	5270	62	5310
80MHz	58	5290		
(U-NII-2C) 5500MHz-5720MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	100	5500	105	5520
	108	5540	112	5560
	116	5580	120	5600
	124	5620	128	5640
	132	5660	136	5680
	140	5700	144	5720
40MHz	102	5510	110	5550
	118	5590	126	5630
	134	5670	142	5710
80MHz	106	5530	122	5610
	138	5690		
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	149	5745	153	5765



	157	5785	161	5805
	165	5825		
40MHz	151	5775	159	5795
80MHz	155	5775		

Note 1: The black bold channels were selected for test.



1.6. Test Configuration of EUT

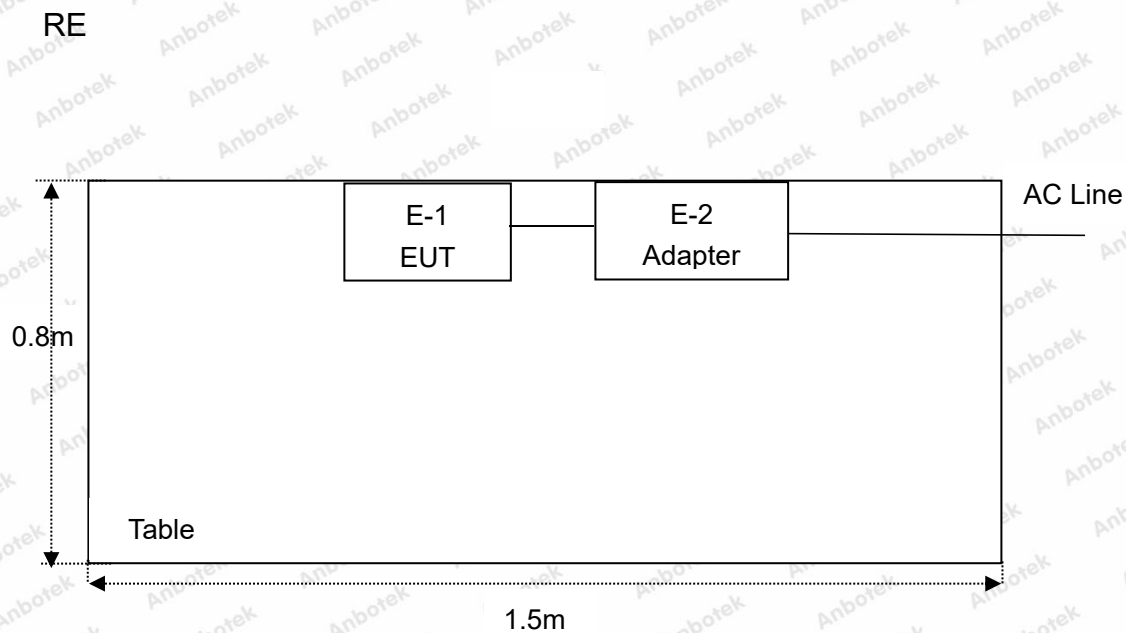
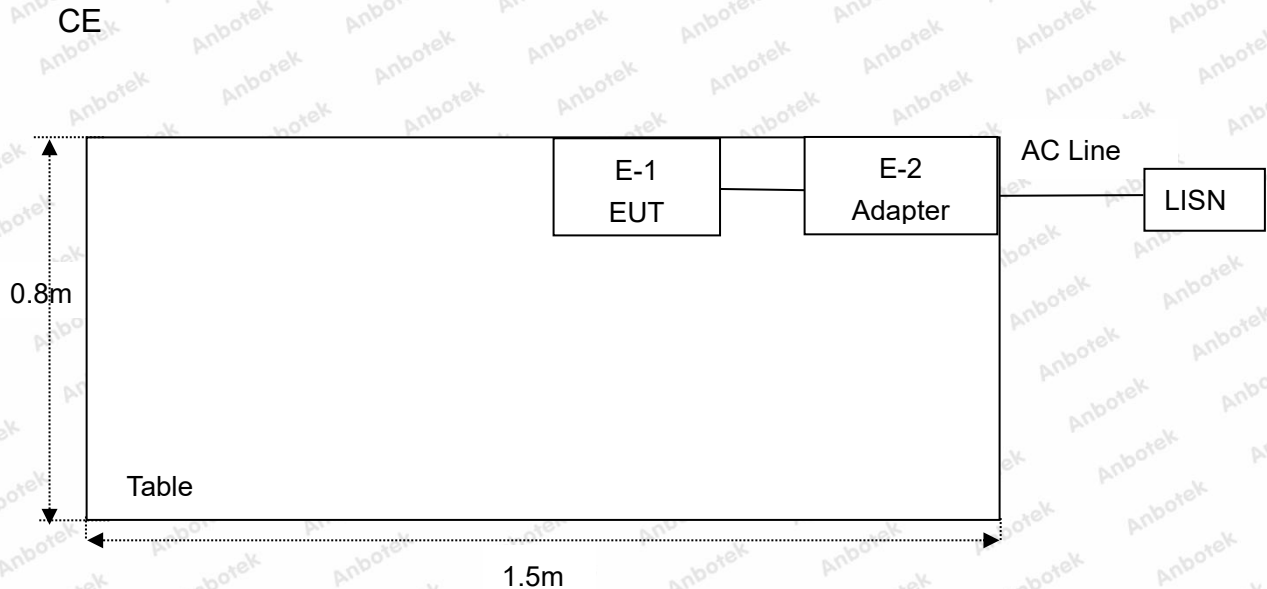
Modulation Type and Data Rate of EUT

Mode	Bandwidth (MHz)	Modulation Technology	Modulation Type	Data Rate	RU Size
802.11a	20	OFDM	DBPSK	1/2/5.5/11Mbps	N/A
			DQPSK		
			CCK		
802.11n	20/40 (HT20/40)	OFDM	BPSK	MCS0~MCS7	N/A
			QPSK		
			16QAM		
			64QAM		
802.11ac	20/40/80 (VHT20/40/80)	OFDM	BPSK	MCS0~MCS9	N/A
			QPSK		
			16QAM		
			64QAM		
			256QAM		

Note1: The worst-case mode (bold face) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.



1.7. Description Of Test Setup



1.8. 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. 12, 2023	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2023	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 12, 2023	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 12, 2023	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	Oct. 12, 2023	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 12, 2023	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Oct. 12, 2023	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 12, 2023	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 12, 2023	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 20, 2023	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 16, 2023	1 Year
18.	Power Meter	Agilent	N1914A	MY50001102	Oct. 20, 2023	1 Year
19.	Amplifier	Talent Microwave	TLLA18G40G-5 0-30	23022802	May 25, 2023	1 Year



1.9. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.10. 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



1.11. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotech and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



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
15.407(h)	Dynamic Frequency Selection (DFS)	PASS (Please Refer to DFS Report)
15.203	Antenna Requirement	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

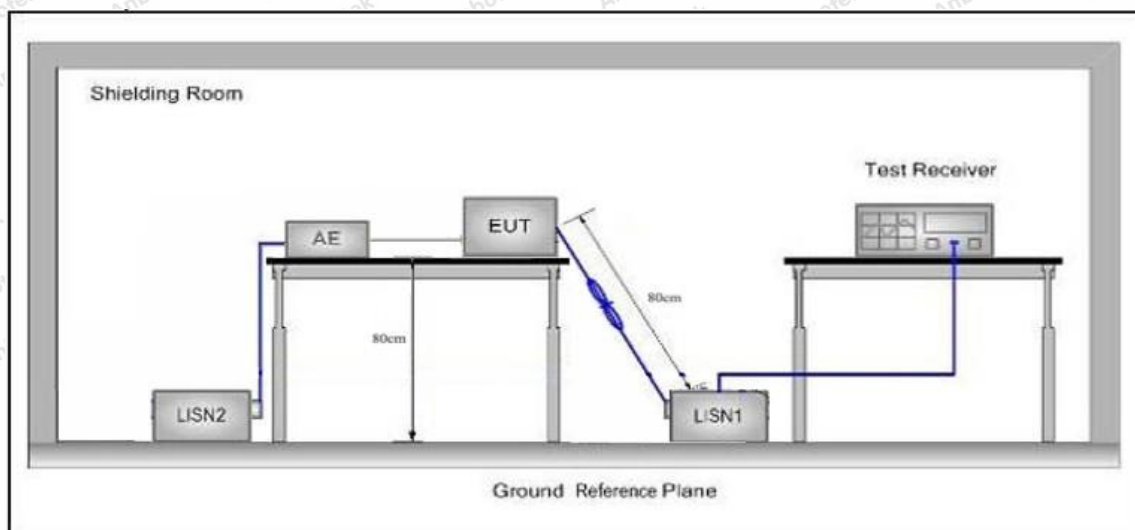


3. Conducted Emission Test

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

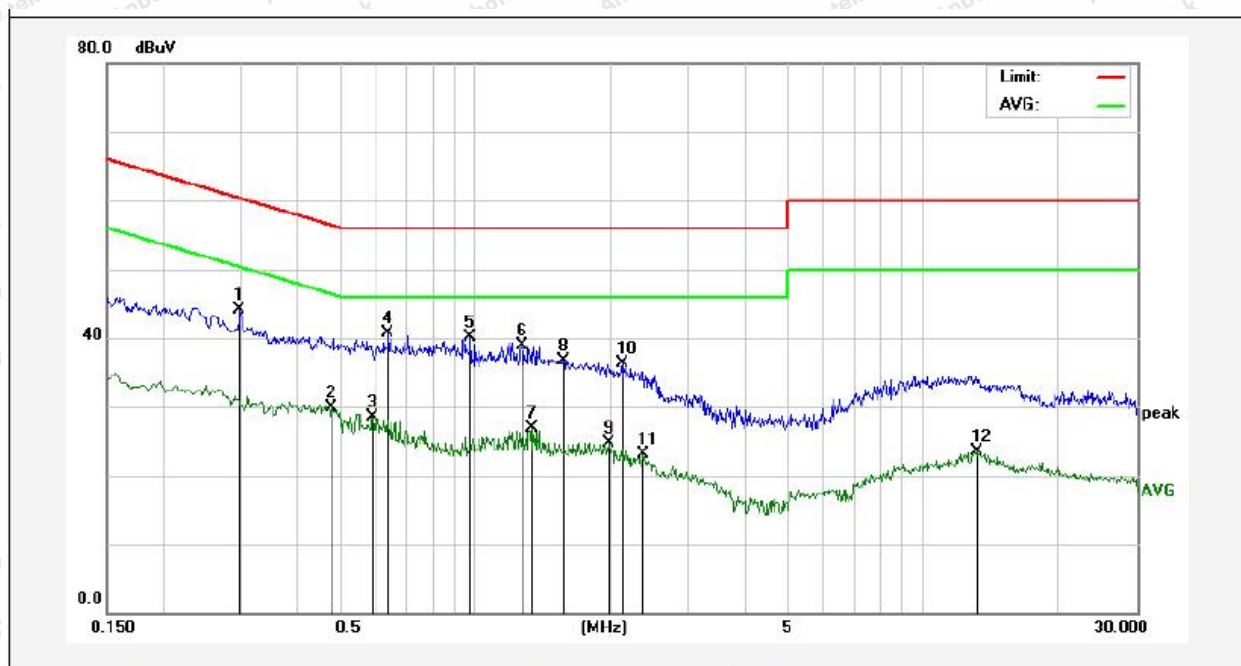
During the test, pre-scan all modes, only the worst case is recorded in the report.

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: 802.11ac(HT20) 5600MHz MIMO
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Temp.(°C)/Hum.(%RH): 22.1°C/52%RH

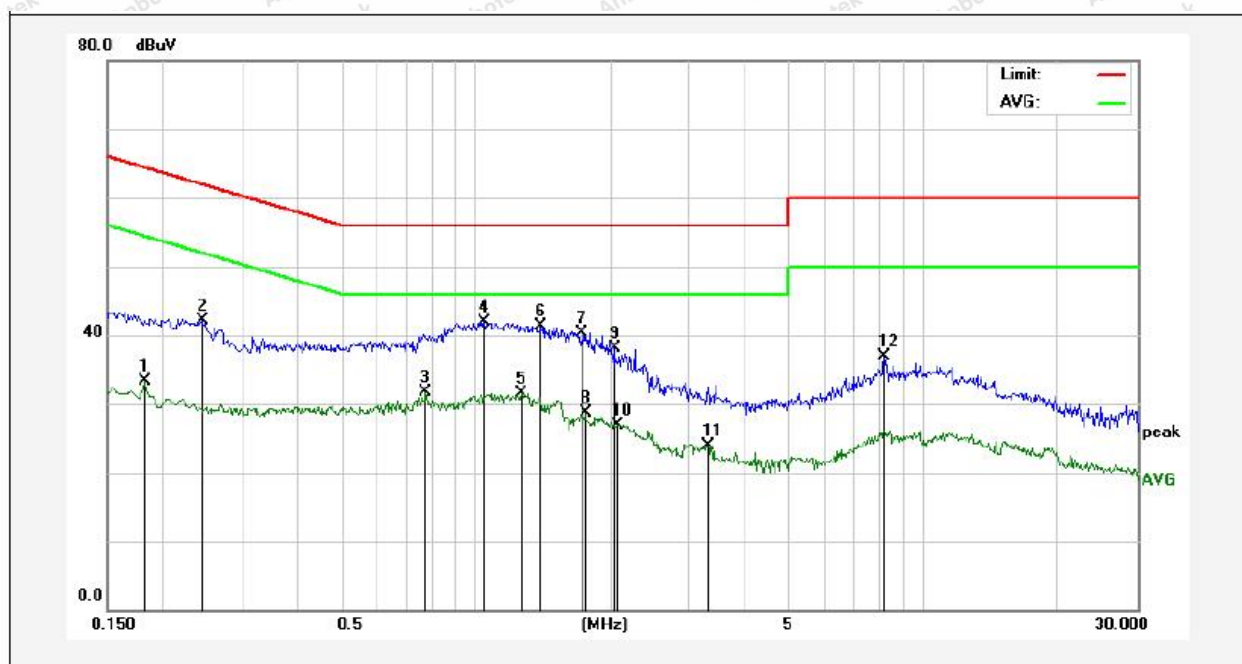


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2977	24.31	19.83	44.14	60.30	-16.16	QP	
2	0.4778	9.98	19.84	29.82	46.38	-16.56	AVG	
3	0.5897	8.63	19.86	28.49	46.00	-17.51	AVG	
4	0.6380	20.94	19.86	40.80	56.00	-15.20	QP	
5	0.9737	20.23	19.85	40.08	56.00	-15.92	QP	
6	1.2740	19.02	19.84	38.86	56.00	-17.14	QP	
7	1.3380	7.09	19.84	26.93	46.00	-19.07	AVG	
8	1.5740	16.80	19.84	36.64	56.00	-19.36	QP	
9	1.9899	4.95	19.83	24.78	46.00	-21.22	AVG	
10	2.1218	16.44	19.83	36.27	56.00	-19.73	QP	
11	2.3740	3.20	19.83	23.03	46.00	-22.97	AVG	
12	13.1859	3.41	20.11	23.52	50.00	-26.48	AVG	



Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 802.11ac(HT20) 5600MHz MIMO
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Temp.(°C)/Hum.(%RH): 22.1°C/52%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1819	13.41	19.83	33.24	54.39	-21.15	AVG	
2	0.2442	22.32	19.83	42.15	61.95	-19.80	QP	
3	0.7740	11.90	19.86	31.76	46.00	-14.24	AVG	
4	1.0460	22.01	19.85	41.86	56.00	-14.14	QP	
5	1.2660	11.59	19.84	31.43	46.00	-14.57	AVG	
6	1.3976	21.41	19.84	41.25	56.00	-14.75	QP	
7	1.7298	20.56	19.84	40.40	56.00	-15.60	QP	
8	1.7540	8.85	19.84	28.69	46.00	-17.31	AVG	
9	2.0379	18.22	19.83	38.05	56.00	-17.95	QP	
10	2.0739	7.15	19.83	26.98	46.00	-19.02	AVG	
11	3.3100	4.09	19.84	23.93	46.00	-22.07	AVG	
12	8.1859	16.92	19.91	36.83	60.00	-23.17	QP	



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: $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 68.2 \text{ dB}\mu\text{V/m}$, for $\text{EIRP}[\text{dBm}] = -27\text{dBm}$.

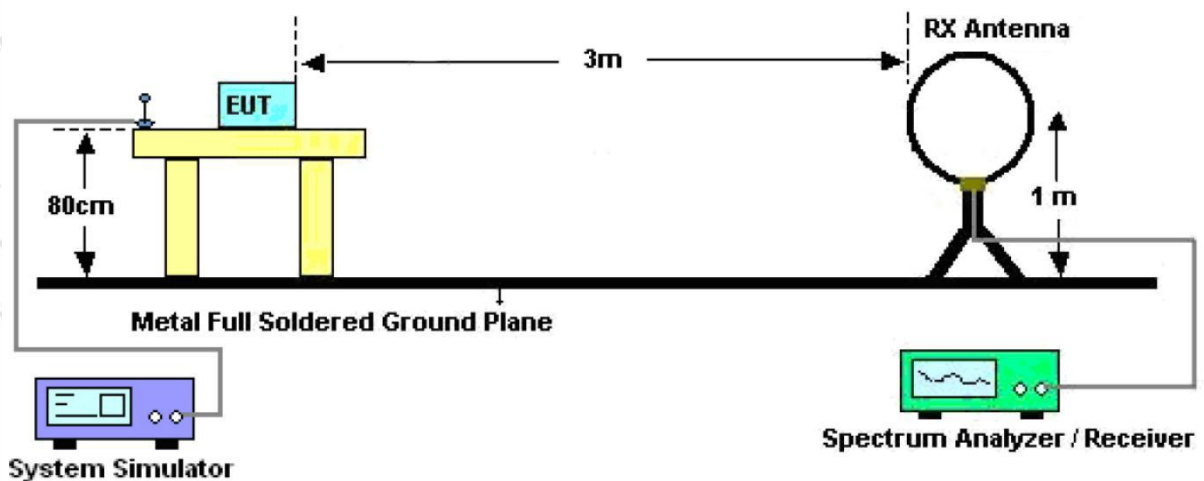
4.2. Test Setup

Figure 1. Below 30MHz



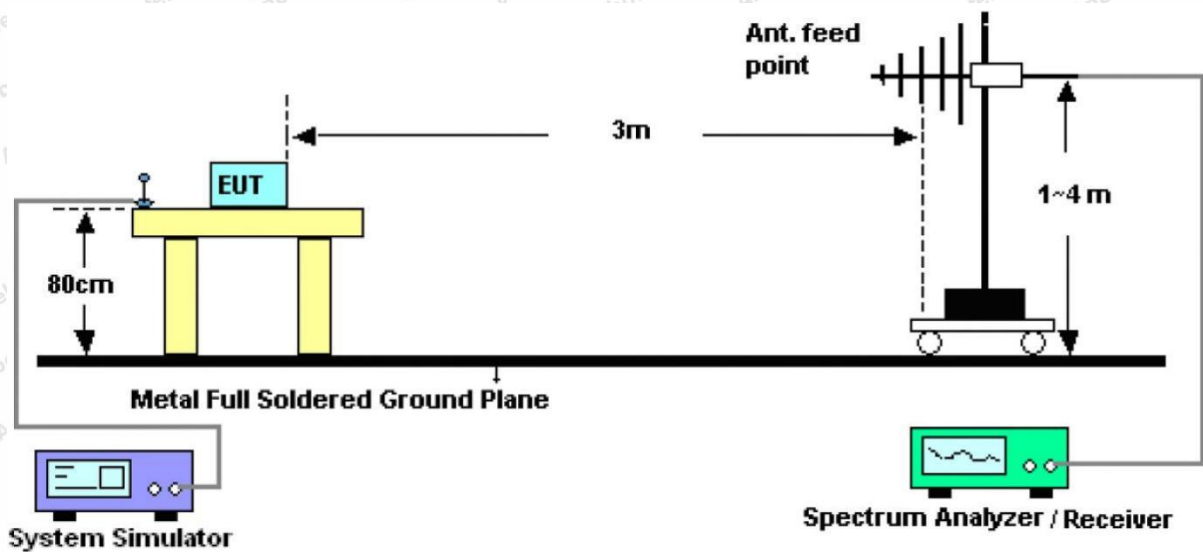


Figure 2. 30MHz to 1GHz

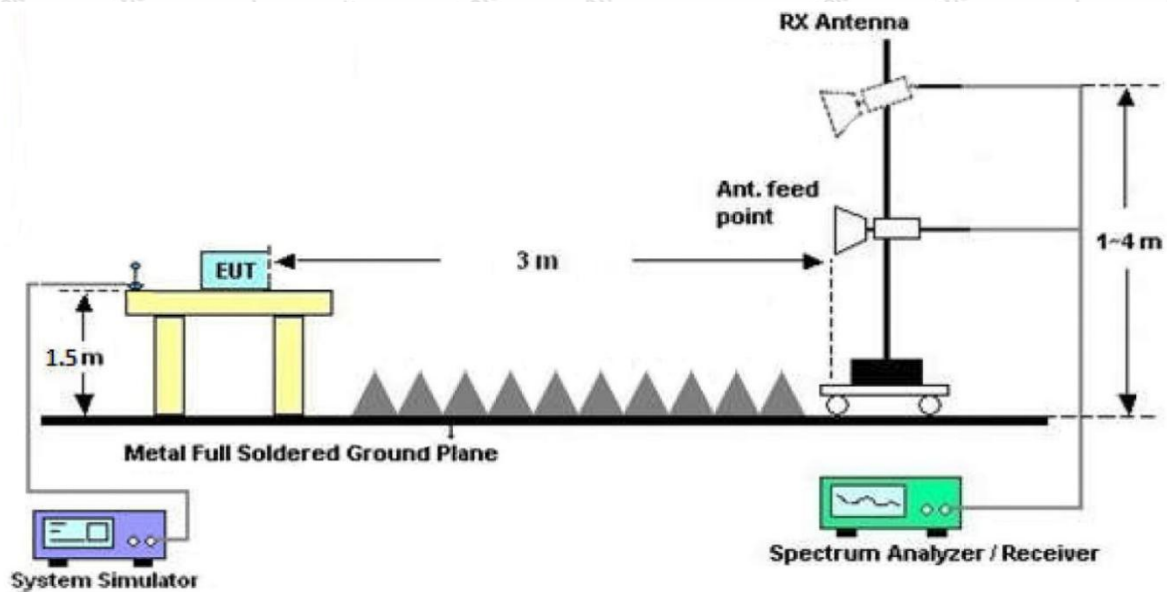


Figure 3. Above 1 GHz

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 the modes(pre-scan the Wi-Fi 5.2G, Wi-Fi 5.3G, Wi-Fi 5.6G, Wi-Fi 5.8G with the 802.11a, 802.11n(HT20), ac(HT20), n(HT40), ac(HT40), ac(HT80) mode, and found the 802.11n(HT20) MIMO mode is worse case ,), only the worst case is recorded in the report.



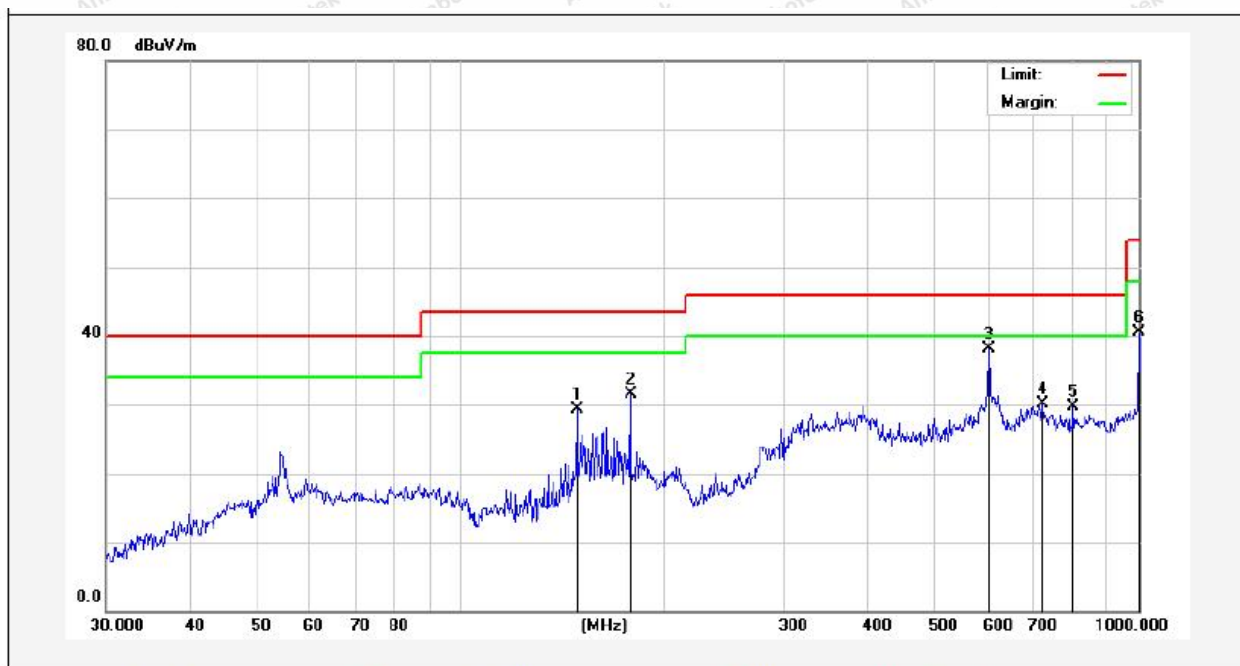
Test Results (30~1000MHz)

Test Mode: 802.11ac(HT20) 5600MHz MIMO

Power Source: AC 120V, 60Hz for adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 24.8°C/41%RH

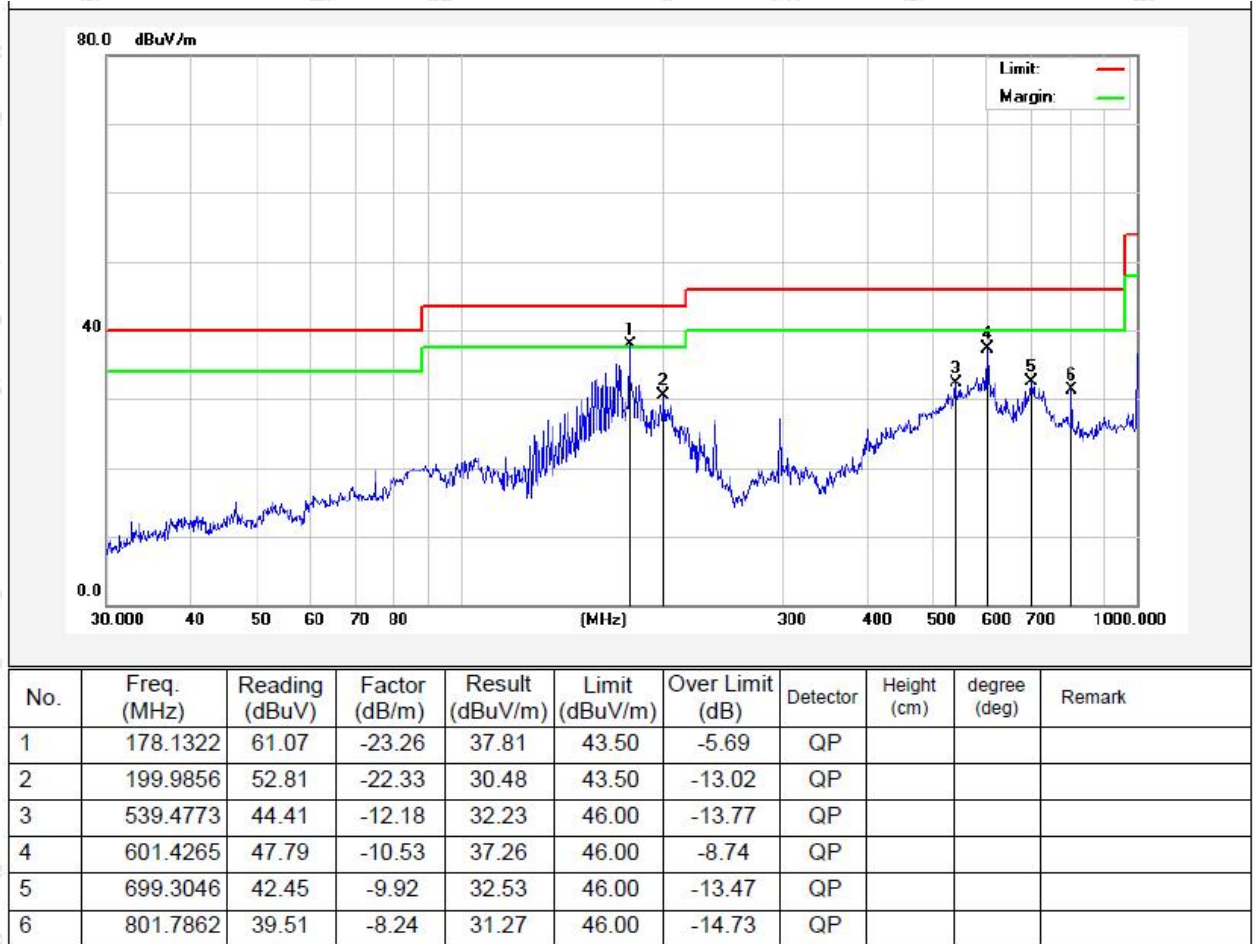


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	148.4410	51.42	-22.10	29.32	43.50	-14.18	QP			
2	178.1322	52.15	-20.70	31.45	43.50	-12.05	QP			
3	601.4265	48.56	-10.53	38.03	46.00	-7.97	QP			
4	721.7259	39.81	-9.62	30.19	46.00	-15.81	QP			
5	801.7862	38.00	-8.24	29.76	46.00	-16.24	QP			
6	1000.0000	45.26	-4.77	40.49	54.00	-13.51	QP			



Test Results (30~1000MHz)

Test Mode: 802.11ac(HT20) 5600MHz MIMO
Power Source: AC 120V, 60Hz for adapter
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 24.8°C/41%RH



Test Results (Above 1000MHz)

Test Mode: IEEE 802.11ac(HT20) MIMO							
Test channel: Low CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11000.00	26.87	24.15	51.02	68.20	-17.18	V	Peak
16500.00	28.89	33.05	61.94	68.20	-6.26	V	Peak
11000.00	28.61	24.15	52.76	68.20	-15.44	H	Peak
16500.00	29.07	33.05	62.12	68.20	-6.08	H	Peak
11000.00	16.455	24.15	40.61	54.00	-13.39	V	AVG
16500.00	17.702	33.05	50.75	54.00	-3.25	V	AVG
11000.00	16.619	24.15	40.77	54.00	-13.23	H	AVG
16500.00	16.639	33.05	49.69	54.00	-4.31	H	AVG
Test channel: Middle CH							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11200.000	26.55	23.83	50.38	68.20	-17.82	V	Peak
16800.000	27.06	32.16	59.22	68.20	-8.98	V	Peak
11200.000	27.54	23.83	51.37	68.20	-16.83	H	Peak
16800.000	27.68	32.16	59.84	68.20	-8.36	H	Peak
11200.000	16.705	23.83	40.54	54.00	-13.46	V	AVG
16800.000	18.102	32.16	50.26	54.00	-3.74	V	AVG
11200.000	17.119	23.83	40.95	54.00	-13.05	H	AVG
16800.000	18.499	32.16	50.66	54.00	-3.34	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
11400.000	25.64	23.51	49.15	68.20	-19.05	V	Peak
17100.000	26.95	31.73	58.68	68.20	-9.52	V	Peak
11400.000	26.44	23.51	49.95	68.20	-18.25	H	Peak
17100.000	27.68	31.73	59.41	68.20	-8.79	H	Peak
11400.000	16.09	23.51	39.60	54.00	-14.40	V	AVG
17100.000	17.31	31.73	49.04	54.00	-4.96	V	AVG
11400.000	19.91	23.51	43.42	54.00	-10.58	H	AVG
17100.000	18.29	31.73	50.02	54.00	-3.98	H	AVG

Remark:

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



3. For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.



For 5.2G&5.3G 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
5179.64	81.52	16.03	97.55	/	/	H	Peak
5150.00	36.69	15.99	52.68	68.20	-15.52	H	Peak
5150.00	26.71	15.99	42.70	54.00	-11.30	H	AVG
5179.64	81.31	16.03	97.34	/	/	V	Peak
5150.00	38.71	15.99	54.70	68.20	-13.50	V	Peak
5150.00	28.68	15.99	44.67	54.00	-9.33	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5320.57	80.89	16.28	97.17	/	/	H	Peak
5350.00	37.24	16.43	53.67	68.20	-14.53	H	Peak
5350.00	28.47	16.43	44.90	54.00	-9.10	H	AVG
5320.57	80.98	16.28	97.26	/	/	V	Peak
5350.00	40.03	16.43	56.46	68.20	-11.74	V	Peak
5350.00	29.46	16.43	45.89	54.00	-8.11	V	AVG

Remark: 1. Result = Reading + Factor

For 5.2G&5.3G 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
5179.68	81.54	16.03	97.57	/	/	H	Peak
5150.00	36.71	15.99	52.70	68.20	-15.50	H	Peak
5150.00	26.72	15.99	42.71	54.00	-11.29	H	AVG
5179.68	81.40	16.03	97.43	/	/	V	Peak
5150.00	38.74	15.99	54.73	68.20	-13.47	V	Peak
5150.00	28.70	15.99	44.69	54.00	-9.31	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector



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5320.69	81.22	16.29	97.51	/	/	H	Peak
5350.00	37.23	16.43	53.66	68.20	-14.54	H	Peak
5350.00	28.46	16.43	44.89	54.00	-9.11	H	AVG
5320.69	81.15	16.29	97.44	/	/	V	Peak
5350.00	40.01	16.43	56.44	68.20	-11.76	V	Peak
5350.00	29.45	16.43	45.88	54.00	-8.12	V	AVG

Remark: 1. Result =Reading + Factor



For 5.2G&5.3G MIMO:

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
5179.71	81.14	16.04	97.18	/	/	H	Peak
5150.00	35.76	15.99	51.75	68.20	-16.45	H	Peak
5150.00	26.48	15.99	42.47	54.00	-11.53	H	AVG
5179.71	81.18	16.04	97.22	/	/	V	Peak
5150.00	37.08	15.99	53.07	68.20	-15.13	V	Peak
5150.00	27.49	15.99	43.48	54.00	-10.52	V	AVG

Test channel: Highest

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5320.84	80.98	16.29	97.27	/	/	H	Peak
5350.00	37.53	16.43	53.96	68.20	-14.24	H	Peak
5350.00	27.54	16.43	43.97	54.00	-10.03	H	AVG
5320.84	81.04	16.29	97.33	/	/	V	Peak
5350.00	38.62	16.43	55.05	68.20	-13.15	V	Peak
5350.00	28.92	16.43	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
5188.21	78.49	16.04	94.53	/	/	H	Peak
5150.00	36.18	15.99	52.17	68.20	-16.03	H	Peak
5150.00	26.73	15.99	42.72	54.00	-11.28	H	AVG
5188.21	78.57	16.04	94.61	/	/	V	Peak
5150.00	38.05	15.99	54.04	68.20	-14.16	V	Peak
5150.00	28.62	15.99	44.61	54.00	-9.39	V	AVG

Test channel: Highest

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5311.51	77.31	16.30	93.61	/	/	H	Peak



5350.00	37.88	16.43	54.31	68.20	-13.89	H	Peak
5350.00	27.98	16.43	44.41	54.00	-9.59	H	AVG
5311.51	77.46	16.30	93.76	/	/	V	Peak
5350.00	36.82	16.43	53.25	68.20	-14.95	V	Peak
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(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
5178.68	80.72	16.04	96.76	/	/	H	Peak
5150.00	36.62	15.99	52.61	68.20	-15.59	H	Peak
5150.00	26.39	15.99	42.38	54.00	-11.62	H	AVG
5178.68	80.77	16.04	96.81	/	/	V	Peak
5150.00	38.32	15.99	54.31	68.20	-13.89	V	Peak
5150.00	28.48	15.99	44.47	54.00	-9.53	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5321.56	79.21	16.30	95.51	/	/	H	Peak
5350.00	37.71	16.43	54.14	68.20	-14.06	H	Peak
5350.00	27.57	16.43	44.00	54.00	-10.00	H	AVG
5321.56	79.28	16.30	95.58	/	/	V	Peak
5350.00	37.98	16.43	54.41	68.20	-13.79	V	Peak
5350.00	28.04	16.43	44.47	54.00	-9.53	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
5188.34	79.01	16.04	95.05	/	/	H	Peak
5150.00	44.89	15.99	60.88	68.20	-7.32	H	Peak
5150.00	27.23	15.99	43.22	54.00	-10.78	H	AVG



5188.34	79.31	16.04	95.35	/	/	V	Peak
5150.00	45.39	15.99	61.38	68.20	-6.82	V	Peak
5150.00	28.77	15.99	44.76	54.00	-9.24	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5311.74	78.81	16.30	95.11	/	/	H	Peak
5350.00	41.21	16.43	57.64	68.20	-10.56	H	Peak
5350.00	27.31	16.43	43.74	54.00	-10.26	H	AVG
5311.74	79.04	16.30	95.34	/	/	V	Peak
5350.00	48.09	16.43	64.52	68.20	-3.68	V	Peak
5350.00	28.66	16.43	45.09	54.00	-8.91	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
5213.24	72.47	16.04	88.51	/	/	H	Peak
5150.00	35.59	15.99	51.58	68.20	-16.62	H	Peak
5150.00	25.65	15.99	41.64	54.00	-12.36	H	AVG
5213.24	72.20	16.04	88.24	/	/	V	Peak
5150.00	36.13	15.99	52.12	68.20	-16.08	V	Peak
5150.00	26.51	15.99	42.50	54.00	-11.50	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5291.51	71.24	16.30	87.54	/	/	H	Peak
5350.00	37.79	16.43	54.22	68.20	-13.98	H	Peak
5350.00	27.32	16.43	43.75	54.00	-10.25	H	AVG
5291.51	70.96	16.30	87.26	/	/	V	Peak
5350.00	37.01	16.43	53.44	68.20	-14.76	V	Peak
5350.00	27.08	16.43	43.51	54.00	-10.49	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 5.6G&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
5496.63	78.30	16.81	95.11	/	/	H	Peak
5460.00	37.98	16.37	54.35	74.00	-19.65	H	Peak
5460.00	28.62	16.37	44.99	54.00	-9.01	H	AVG
5470.00	38.52	16.70	55.22	68.20	-12.98	H	Peak
5470.00	28.61	16.70	45.31	54.00	-8.69	H	AVG
5496.63	78.42	16.81	95.23	/	/	V	Peak
5460.00	39.29	16.37	55.66	74.00	-18.34	V	Peak
5460.00	28.48	16.37	44.85	54.00	-9.15	V	AVG
5470.00	39.05	16.70	55.75	68.20	-12.45	V	Peak
5470.00	29.67	16.70	46.37	54.00	-7.63	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5826.74	76.09	17.16	93.25	/	/	H	Peak
5850.00	38.89	17.21	56.10	68.20	-12.10	H	Peak
5850.00	28.91	17.21	46.12	54.00	-7.88	H	AVG
5826.74	76.17	17.16	93.33	/	/	V	Peak
5850.00	39.22	17.21	56.43	68.20	-11.77	V	Peak
5850.00	28.96	17.21	46.17	54.00	-7.83	V	AVG

Remark: Result = Reading + Factor

For 5.6G&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
5496.85	78.66	16.81	95.47	/	/	H	Peak
5460.00	37.98	16.37	54.35	74.00	-19.65	H	Peak
5460.00	28.63	16.37	45.00	54.00	-9.00	H	AVG
5470.00	38.52	16.70	55.22	68.20	-12.98	H	Peak
5470.00	28.61	16.70	45.31	54.00	-8.69	H	AVG
5496.85	78.47	16.81	95.28	/	/	V	Peak
5460.00	39.30	16.37	55.67	74.00	-18.33	V	Peak
5460.00	28.48	16.37	44.85	54.00	-9.15	V	AVG
5470.00	39.05	16.70	55.75	68.20	-12.45	V	Peak
5470.00	29.67	16.70	46.37	54.00	-7.63	V	AVG
Test channel: Highest							
Frequency	Reading	Factor	Result	Limit	Over limit	Antenna	Detector



(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Pol.	
5826.59	76.26	17.16	93.42	/	/	H	Peak
5850.00	38.90	17.21	56.11	68.20	-12.09	H	Peak
5850.00	28.91	17.21	46.12	54.00	-7.88	H	AVG
5826.59	76.12	17.16	93.28	/	/	V	Peak
5850.00	39.23	17.21	56.44	68.20	-11.76	V	Peak
5850.00	28.96	17.21	46.17	54.00	-7.83	V	AVG

Remark: Result = Reading + Factor

For 5.6G&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
5496.84	78.35	16.81	95.16	/	/	H	Peak
5460.00	37.94	16.37	54.31	74.00	-19.69	H	Peak
5460.00	27.05	16.37	43.42	54.00	-10.58	H	AVG
5470.00	37.62	16.70	54.32	68.20	-13.88	H	Peak
5470.00	27.28	16.70	43.98	54.00	-10.02	H	AVG
5496.84	78.43	16.81	95.24	/	/	V	Peak
5460.00	38.47	16.37	54.84	74.00	-19.16	V	Peak
5460.00	27.43	16.37	43.80	54.00	-10.20	V	AVG
5470.00	37.88	16.70	54.58	68.20	-13.62	V	Peak
5470.00	27.65	16.70	44.35	54.00	-9.65	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5826.73	77.25	17.16	94.41	/	/	H	Peak
5850.00	37.14	17.21	54.35	68.20	-13.85	H	Peak
5850.00	27.35	17.21	44.56	54.00	-9.44	H	AVG
5826.73	77.19	17.16	94.35	/	/	V	Peak
5850.00	37.80	17.21	55.01	68.20	-13.19	V	Peak
5850.00	28.25	17.21	45.46	54.00	-8.54	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
5508.86	75.04	16.81	91.85	/	/	H	Peak
5460.00	37.52	16.37	53.89	74.00	-20.11	H	Peak



5460.00	26.69	16.37	43.06	54.00	-10.94	H	AVG
5470.00	37.92	16.70	54.62	68.20	-13.58	H	Peak
5470.00	26.57	16.70	43.27	54.00	-10.73	H	AVG
5508.86	75.10	16.81	91.91	/	/	V	Peak
5460.00	38.35	16.37	54.72	74.00	-19.28	V	Peak
5460.00	28.61	16.37	44.98	54.00	-9.02	V	AVG
5470.00	38.42	16.70	55.12	68.20	-13.08	V	Peak
5470.00	28.08	16.70	44.78	54.00	-9.22	V	AVG

Test channel: Highest

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5796.83	75.40	17.01	92.41	/	/	H	Peak
5850.00	37.88	17.05	54.93	68.20	-13.27	H	Peak
5850.00	28.04	17.05	45.09	54.00	-8.91	H	AVG
5796.83	75.45	17.01	92.46	/	/	V	Peak
5850.00	38.31	17.05	55.36	68.20	-12.84	V	Peak
5850.00	29.18	17.05	46.23	54.00	-7.77	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
5496.57	78.24	16.81	95.05	/	/	H	Peak
5460.00	37.20	16.37	53.57	74.00	-20.43	H	Peak
5460.00	27.89	16.37	44.26	54.00	-9.74	H	AVG
5470.00	37.42	16.70	54.12	68.20	-14.08	H	Peak
5470.00	27.92	16.70	44.62	54.00	-9.38	H	AVG
5496.57	78.30	16.81	95.11	/	/	V	Peak
5460.00	37.44	16.37	53.81	74.00	-20.19	V	Peak
5460.00	28.43	16.37	44.80	54.00	-9.20	V	AVG
5470.00	38.06	16.70	54.76	68.20	-13.44	V	Peak
5470.00	28.46	16.70	45.16	54.00	-8.84	V	AVG

Test channel: Highest

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5826.87	76.79	17.16	93.95	/	/	H	Peak
5850.00	37.94	17.21	55.15	68.20	-13.05	H	Peak
5850.00	27.85	17.21	45.06	54.00	-8.94	H	AVG
5826.87	76.71	17.16	93.87	/	/	V	Peak
5850.00	38.86	17.21	56.07	68.20	-12.13	V	Peak
5850.00	28.85	17.21	46.06	54.00	-7.94	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
5508.86	75.27	16.81	92.08	/	/	H	Peak
5460.00	36.16	16.37	52.53	74.00	-21.47	H	Peak
5460.00	27.20	16.37	43.57	54.00	-10.43	H	AVG
5470.00	36.27	16.70	52.97	68.20	-15.23	H	Peak
5470.00	27.20	16.70	43.90	54.00	-10.10	H	AVG
5508.86	75.36	16.81	92.17	/	/	V	Peak
5460.00	37.73	16.37	54.10	74.00	-19.90	V	Peak
5460.00	27.34	16.37	43.71	54.00	-10.29	V	AVG
5470.00	37.86	16.70	54.56	68.20	-13.64	V	Peak
5470.00	27.94	16.70	44.64	54.00	-9.36	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5796.83	75.38	17.01	92.39	/	/	H	Peak
5850.00	37.53	17.21	54.74	68.20	-13.46	H	Peak
5850.00	27.51	17.21	44.72	54.00	-9.28	H	AVG
5796.83	75.27	17.01	92.28	/	/	V	Peak
5850.00	38.29	17.21	55.50	68.20	-12.70	V	Peak
5850.00	27.08	17.21	44.29	54.00	-9.71	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
5529.46	66.93	16.81	83.74	/	/	H	Peak
5460.00	35.46	16.37	51.83	74.00	-22.17	H	Peak
5460.00	25.64	16.37	42.01	54.00	-11.99	H	AVG
5470.00	35.53	16.70	52.23	68.20	-15.97	H	Peak
5470.00	25.92	16.70	42.62	54.00	-11.38	H	AVG
5529.46	67.01	16.81	83.82	/	/	V	Peak
5460.00	36.93	16.37	53.30	74.00	-20.70	V	Peak
5460.00	26.84	16.37	43.21	54.00	-10.79	V	AVG
5470.00	37.49	16.70	54.19	68.20	-14.01	V	Peak
5470.00	26.76	16.70	43.46	54.00	-10.54	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5774.86	67.33	17.08	84.41	/	/	H	Peak
5850.00	37.34	17.21	54.55	68.20	-13.65	H	Peak
5850.00	27.65	17.21	44.86	54.00	-9.14	H	AVG
5774.86	67.55	17.08	84.63	/	/	V	Peak
5850.00	37.71	17.21	54.92	68.20	-13.28	V	Peak
5850.00	28.10	17.21	45.31	54.00	-8.69	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.

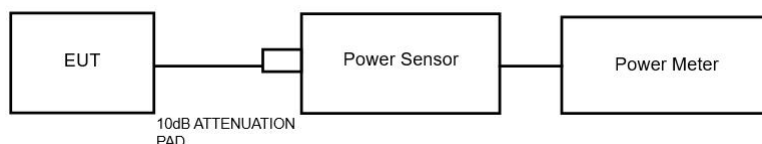


5. Maximum conducted output power Test

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 $GT_x > 6dBi$, then $P_{out} = 30 - (GT_x - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125mW$ (21dBm) 2) Indoor AP The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 6dBi$, 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 $GT_x > 23dBi$, 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 $GT_x > 6dBi$, 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 $11dBm + 10 \log B$, where B is the 26dB emission bandwidth in MHz. if $GT_x > 6dBi$, 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 $11dBm + 10 \log B$, where B is the 26dB emission bandwidth in MHz. if $GT_x > 6dBi$, 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 $GT_x > 6dBi$, 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 for Details.

Additional test for duty cycle.

Please Refer to Appendix for Details.

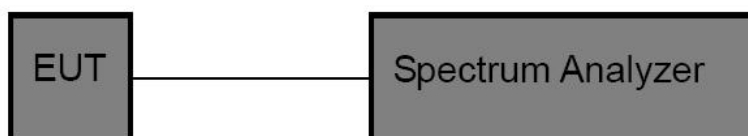


6. 26dB Bandwidth & 99% Occupied Bandwidth Test

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 for Details.

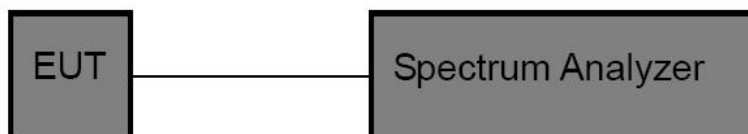


7. Minimum 6dB bandwidth Test

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

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.

4. 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.

4. 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.
5. Repeat until all the rest channels are investigated.

7.4. Test Data

Pass

Please Refer to Appendix for Details.

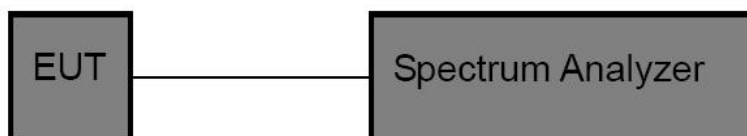


8. Power Spectral Density Test

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 for Details.

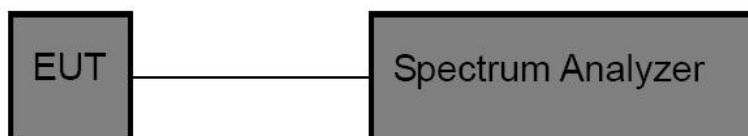


9. Frequency Stability

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 Refer to Appendix for Details.



Test Mode: 5.2G							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit	Verdict
802.11a	SISO	5180	20	102.00	5180.06	5172 to 5188	Pass
				120.00	5180.05	5172 to 5188	Pass
				138.00	5180.03	5172 to 5188	Pass
			-30	120.00	5180.07	5172 to 5188	Pass
			-20	120.00	5180.12	5150 to 5250	Pass
			-10	120.00	5180.09	5150 to 5250	Pass
			0	120.00	5180.04	5150 to 5250	Pass
			10	120.00	5180.03	5150 to 5250	Pass
			30	120.00	5180.04	5150 to 5250	Pass
			40	120.00	5180.03	5150 to 5250	Pass
			50	120.00	5180.02	5172 to 5188	Pass
		5200	20	102.00	5200.10	5192 to 5208	Pass
				120.00	5200.06	5192 to 5208	Pass
				138.00	5200.01	5192 to 5208	Pass
			-30	120.00	5200.08	5192 to 5208	Pass
			-20	120.00	5200.05	5150 to 5250	Pass
			-10	120.00	5200.07	5150 to 5250	Pass
			0	120.00	5200.05	5150 to 5250	Pass
			10	120.00	5200.02	5150 to 5250	Pass
			30	120.00	5200.05	5150 to 5250	Pass
			40	120.00	5200.09	5150 to 5250	Pass
			50	120.00	5200.05	5192 to 5208	Pass
		5240	20	102.00	5240.03	5232 to 5248	Pass
				120.00	5240.08	5232 to 5248	Pass
				138.00	5240.02	5232 to 5248	Pass
			-30	120.00	5240.04	5232 to 5248	Pass
			-20	120.00	5240.04	5150 to 5250	Pass
			-10	120.00	5240.10	5150 to 5250	Pass
			0	120.00	5240.10	5150 to 5250	Pass
			10	120.00	5240.03	5150 to 5250	Pass
			30	120.00	5240.07	5150 to 5250	Pass
			40	120.00	5240.08	5150 to 5250	Pass
			50	120.00	5240.07	5232 to 5248	Pass
802.11n (HT20)	MIMO	5180	20	102.00	5180.07	5172 to 5188	Pass
				120.00	5180.02	5172 to 5188	Pass
				138.00	5180.06	5172 to 5188	Pass
				120.00	5180.11	5172 to 5188	Pass



			-20	120.00	5180.13	5150 to 5250	Pass
			-10	120.00	5180.09	5150 to 5250	Pass
			0	120.00	5180.03	5150 to 5250	Pass
			10	120.00	5180.11	5150 to 5250	Pass
			30	120.00	5180.07	5150 to 5250	Pass
			40	120.00	5180.10	5150 to 5250	Pass
			50	120.00	5180.01	5172 to 5188	Pass
		5200	20	102.00	5200.02	5192 to 5208	Pass
				120.00	5200.12	5192 to 5208	Pass
				138.00	5200.03	5192 to 5208	Pass
			-30	120.00	5200.05	5192 to 5208	Pass
			-20	120.00	5200.12	5150 to 5250	Pass
			-10	120.00	5200.01	5150 to 5250	Pass
			0	120.00	5200.06	5150 to 5250	Pass
			10	120.00	5200.10	5150 to 5250	Pass
			30	120.00	5200.09	5150 to 5250	Pass
			40	120.00	5200.10	5150 to 5250	Pass
			50	120.00	5200.13	5192 to 5208	Pass
		5240	20	102.00	5240.09	5232 to 5248	Pass
				120.00	5240.11	5232 to 5248	Pass
				138.00	5240.02	5232 to 5248	Pass
			-30	120.00	5240.03	5232 to 5248	Pass
			-20	120.00	5240.03	5150 to 5250	Pass
			-10	120.00	5240.06	5150 to 5250	Pass
			0	120.00	5240.09	5150 to 5250	Pass
			10	120.00	5240.02	5150 to 5250	Pass
			30	120.00	5240.04	5150 to 5250	Pass
			40	120.00	5240.06	5150 to 5250	Pass
			50	120.00	5240.07	5232 to 5248	Pass
		5190	20	102.00	5190.12	5174 to 5206	Pass
				120.00	5190.05	5174 to 5206	Pass
				138.00	5190.10	5174 to 5206	Pass
			-30	120.00	5190.07	5174 to 5206	Pass
			-20	120.00	5190.02	5150 to 5250	Pass
			-10	120.00	5190.05	5150 to 5250	Pass
			0	120.00	5190.11	5150 to 5250	Pass
			10	120.00	5190.02	5150 to 5250	Pass
			30	120.00	5190.05	5150 to 5250	Pass
			40	120.00	5190.00	5150 to 5250	Pass
			50	120.00	5190.11	5174 to 5206	Pass

802.11n
(HT40)

MIMO



		5230	20	102.00	5230.09	5214 to 5246	Pass
				120.00	5230.01	5214 to 5246	Pass
				138.00	5230.01	5214 to 5246	Pass
			-30	120.00	5230.05	5214 to 5246	Pass
			-20	120.00	5230.10	5150 to 5250	Pass
			-10	120.00	5230.02	5150 to 5250	Pass
			0	120.00	5230.07	5150 to 5250	Pass
			10	120.00	5230.11	5150 to 5250	Pass
			30	120.00	5230.08	5150 to 5250	Pass
			40	120.00	5230.05	5150 to 5250	Pass
			50	120.00	5230.11	5214 to 5246	Pass
802.11ac (VHT20)	MIMO	5180	20	102.00	5180.03	5172 to 5188	Pass
				120.00	5180.09	5172 to 5188	Pass
				138.00	5180.04	5172 to 5188	Pass
			-30	120.00	5180.01	5172 to 5188	Pass
			-20	120.00	5180.03	5150 to 5250	Pass
			-10	120.00	5180.09	5150 to 5250	Pass
			0	120.00	5180.00	5150 to 5250	Pass
			10	120.00	5180.08	5150 to 5250	Pass
			30	120.00	5180.09	5150 to 5250	Pass
			40	120.00	5180.06	5150 to 5250	Pass
			50	120.00	5180.01	5172 to 5188	Pass
		5200	20	102.00	5200.03	5192 to 5208	Pass
				120.00	5200.05	5192 to 5208	Pass
				138.00	5200.07	5192 to 5208	Pass
			-30	120.00	5200.10	5192 to 5208	Pass
			-20	120.00	5200.00	5150 to 5250	Pass
			-10	120.00	5200.02	5150 to 5250	Pass
			0	120.00	5200.07	5150 to 5250	Pass
			10	120.00	5200.01	5150 to 5250	Pass
			30	120.00	5200.04	5150 to 5250	Pass
			40	120.00	5200.11	5150 to 5250	Pass
			50	120.00	5200.08	5192 to 5208	Pass
		5240	20	102.00	5240.03	5232 to 5248	Pass
				120.00	5240.05	5232 to 5248	Pass
				138.00	5240.02	5232 to 5248	Pass
			-30	120.00	5240.03	5232 to 5248	Pass
			-20	120.00	5240.02	5150 to 5250	Pass
			-10	120.00	5240.10	5150 to 5250	Pass
			0	120.00	5240.05	5150 to 5250	Pass



			10	120.00	5240.06	5150 to 5250	Pass
			30	120.00	5240.03	5150 to 5250	Pass
			40	120.00	5240.03	5150 to 5250	Pass
			50	120.00	5240.01	5232 to 5248	Pass
802.11ac (VHT40)	MIMO	5190	20	102.00	5190.00	5174 to 5206	Pass
				120.00	5190.09	5174 to 5206	Pass
				138.00	5190.11	5174 to 5206	Pass
			-30	120.00	5190.10	5174 to 5206	Pass
			-20	120.00	5190.00	5150 to 5250	Pass
			-10	120.00	5190.08	5150 to 5250	Pass
			0	120.00	5190.03	5150 to 5250	Pass
			10	120.00	5190.06	5150 to 5250	Pass
			30	120.00	5190.11	5150 to 5250	Pass
			40	120.00	5190.11	5150 to 5250	Pass
			50	120.00	5190.07	5174 to 5206	Pass
		5230	20	102.00	5230.10	5214 to 5246	Pass
				120.00	5230.05	5214 to 5246	Pass
				138.00	5230.04	5214 to 5246	Pass
			-30	120.00	5230.07	5214 to 5246	Pass
			-20	120.00	5230.02	5150 to 5250	Pass
			-10	120.00	5230.11	5150 to 5250	Pass
			0	120.00	5230.01	5150 to 5250	Pass
			10	120.00	5230.05	5150 to 5250	Pass
			30	120.00	5230.07	5150 to 5250	Pass
			40	120.00	5230.07	5150 to 5250	Pass
			50	120.00	5230.08	5214 to 5246	Pass
802.11ac (VHT80)	MIMO	5210	20	102.00	5210.06	5178 to 5242	Pass
				120.00	5210.02	5178 to 5242	Pass
				138.00	5210.08	5178 to 5242	Pass
			-30	120.00	5210.06	5178 to 5242	Pass
			-20	120.00	5210.07	5150 to 5250	Pass
			-10	120.00	5210.07	5150 to 5250	Pass
			0	120.00	5210.10	5150 to 5250	Pass
			10	120.00	5210.12	5150 to 5250	Pass
			30	120.00	5210.12	5150 to 5250	Pass
			40	120.00	5210.12	5150 to 5250	Pass
			50	120.00	5210.09	5178 to 5242	Pass



Test Mode: 5.3G							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit	Verdict
802.11a	SISO	5180	20	102.00	5260.03	5252 to 5268	Pass
				120.00	5260.07	5252 to 5268	Pass
				138.00	5260.06	5252 to 5268	Pass
			-30	102.00	5260.08	5252 to 5268	Pass
				120.00	5260.03	5250 to 5350	Pass
				120.00	5260.07	5250 to 5350	Pass
			0	120.00	5260.13	5250 to 5350	Pass
				120.00	5260.09	5250 to 5350	Pass
				120.00	5260.13	5250 to 5350	Pass
			40	120.00	5260.07	5250 to 5350	Pass
				120.00	5260.01	5252 to 5268	Pass
				120.00	5300.12	5292 to 5308	Pass
		5200	20	120.00	5300.08	5292 to 5308	Pass
				138.00	5300.12	5292 to 5308	Pass
				102.00	5300.13	5292 to 5308	Pass
			-30	120.00	5300.04	5250 to 5350	Pass
				120.00	5300.04	5250 to 5350	Pass
				120.00	5300.03	5250 to 5350	Pass
			0	120.00	5300.02	5250 to 5350	Pass
				120.00	5300.08	5250 to 5350	Pass
				120.00	5300.08	5250 to 5350	Pass
			40	120.00	5300.05	5292 to 5308	Pass
				102.00	5320.11	5312 to 5328	Pass
			20	120.00	5320.03	5312 to 5328	Pass
				138.00	5320.05	5312 to 5328	Pass
				102.00	5320.03	5312 to 5328	Pass
		5240	-30	120.00	5320.07	5250 to 5350	Pass
				120.00	5320.05	5250 to 5350	Pass
				120.00	5320.02	5250 to 5350	Pass
			0	120.00	5320.09	5250 to 5350	Pass
				120.00	5320.01	5250 to 5350	Pass
				120.00	5320.11	5250 to 5350	Pass
			40	120.00	5320.07	5312 to 5328	Pass
				102.00	5260.10	5252 to 5268	Pass
			20	120.00	5260.00	5252 to 5268	Pass
				138.00	5260.03	5252 to 5268	Pass
				102.00	5260.03	5252 to 5268	Pass



802.11n (HT40)	Anbotech	Anbotech	5200	-20	120.00	5260.09	5250 to 5350	Pass	
				-10	120.00	5260.07	5250 to 5350	Pass	
				0	120.00	5260.11	5250 to 5350	Pass	
				10	120.00	5260.11	5250 to 5350	Pass	
				30	120.00	5260.07	5250 to 5350	Pass	
				40	120.00	5260.07	5250 to 5350	Pass	
				50	120.00	5260.10	5252 to 5268	Pass	
			5200	20	102.00	5300.02	5292 to 5308	Pass	
					120.00	5300.02	5292 to 5308	Pass	
					138.00	5300.01	5292 to 5308	Pass	
				-30	102.00	5300.03	5292 to 5308	Pass	
				-20	120.00	5300.08	5250 to 5350	Pass	
				-10	120.00	5300.08	5250 to 5350	Pass	
				0	120.00	5300.09	5250 to 5350	Pass	
				10	120.00	5300.02	5250 to 5350	Pass	
				30	120.00	5300.03	5250 to 5350	Pass	
				40	120.00	5300.11	5250 to 5350	Pass	
				50	120.00	5300.11	5292 to 5308	Pass	
				5240	20	102.00	5320.07	5312 to 5328	Pass
						120.00	5320.11	5312 to 5328	Pass
			138.00			5320.09	5312 to 5328	Pass	
			-30		102.00	5320.06	5312 to 5328	Pass	
			-20		120.00	5320.13	5250 to 5350	Pass	
			-10		120.00	5320.09	5250 to 5350	Pass	
			0		120.00	5320.01	5250 to 5350	Pass	
			10		120.00	5320.01	5250 to 5350	Pass	
			30		120.00	5320.10	5250 to 5350	Pass	
			40		120.00	5320.12	5250 to 5350	Pass	
			50		120.00	5320.08	5312 to 5328	Pass	
			5190		20	102.00	5270.07	5254 to 5286	Pass
						120.00	5270.11	5254 to 5286	Pass
				138.00		5270.12	5254 to 5286	Pass	
				-30	102.00	5270.06	5254 to 5286	Pass	
				-20	120.00	5270.12	5250 to 5350	Pass	
				-10	120.00	5270.11	5250 to 5350	Pass	
				0	120.00	5270.06	5250 to 5350	Pass	
10	120.00	5270.09		5250 to 5350	Pass				
30	120.00	5270.00		5250 to 5350	Pass				
40	120.00	5270.11		5250 to 5350	Pass				
50	120.00	5270.09		5254 to 5286	Pass				



802.11ac (VHT20)	MIMO	5230	20	102.00	5310.01	5294 to 5326	Pass
				120.00	5310.00	5294 to 5326	Pass
				138.00	5310.12	5294 to 5326	Pass
			-30	102.00	5310.09	5294 to 5326	Pass
			-20	120.00	5310.10	5250 to 5350	Pass
			-10	120.00	5310.01	5250 to 5350	Pass
			0	120.00	5310.00	5250 to 5350	Pass
			10	120.00	5310.04	5250 to 5350	Pass
			30	120.00	5310.00	5250 to 5350	Pass
			40	120.00	5310.04	5250 to 5350	Pass
			50	120.00	5310.02	5294 to 5326	Pass
		5180	20	102.00	5260.08	5252 to 5268	Pass
				120.00	5260.12	5252 to 5268	Pass
				138.00	5260.01	5252 to 5268	Pass
			-30	102.00	5260.07	5252 to 5268	Pass
			-20	120.00	5260.13	5250 to 5350	Pass
			-10	120.00	5260.11	5250 to 5350	Pass
			0	120.00	5260.08	5250 to 5350	Pass
			10	120.00	5260.06	5250 to 5350	Pass
			30	120.00	5260.01	5250 to 5350	Pass
			40	120.00	5260.08	5250 to 5350	Pass
			50	120.00	5260.11	5252 to 5268	Pass
		5200	20	102.00	5300.10	5292 to 5308	Pass
				120.00	5300.09	5292 to 5308	Pass
				138.00	5300.05	5292 to 5308	Pass
			-30	102.00	5300.09	5292 to 5308	Pass
			-20	120.00	5300.12	5250 to 5350	Pass
			-10	120.00	5300.06	5250 to 5350	Pass
			0	120.00	5300.04	5250 to 5350	Pass
			10	120.00	5300.11	5250 to 5350	Pass
			30	120.00	5300.06	5250 to 5350	Pass
			40	120.00	5300.04	5250 to 5350	Pass
			50	120.00	5300.08	5292 to 5308	Pass
		5240	20	102.00	5320.02	5312 to 5328	Pass
				120.00	5320.08	5312 to 5328	Pass
				138.00	5320.11	5312 to 5328	Pass
			-30	102.00	5320.07	5312 to 5328	Pass
			-20	120.00	5320.07	5250 to 5350	Pass
			-10	120.00	5320.02	5250 to 5350	Pass
			0	120.00	5320.02	5250 to 5350	Pass



			10	120.00	5320.13	5250 to 5350	Pass
			30	120.00	5320.02	5250 to 5350	Pass
			40	120.00	5320.08	5250 to 5350	Pass
			50	120.00	5320.01	5312 to 5328	Pass
802.11ac (VHT40)	MIMO	5190	20	102.00	5270.03	5254 to 5286	Pass
				120.00	5270.11	5254 to 5286	Pass
				138.00	5270.05	5254 to 5286	Pass
			-30	102.00	5270.11	5254 to 5286	Pass
			-20	120.00	5270.12	5250 to 5350	Pass
			-10	120.00	5270.06	5250 to 5350	Pass
			0	120.00	5270.04	5250 to 5350	Pass
			10	120.00	5270.01	5250 to 5350	Pass
			30	120.00	5270.12	5250 to 5350	Pass
			40	120.00	5270.01	5250 to 5350	Pass
			50	120.00	5270.08	5254 to 5286	Pass
		5230	20	102.00	5310.09	5294 to 5326	Pass
				120.00	5310.13	5294 to 5326	Pass
				138.00	5310.01	5294 to 5326	Pass
			-30	102.00	5310.12	5294 to 5326	Pass
			-20	120.00	5310.12	5250 to 5350	Pass
			-10	120.00	5310.07	5250 to 5350	Pass
			0	120.00	5310.07	5250 to 5350	Pass
			10	120.00	5310.10	5250 to 5350	Pass
			30	120.00	5310.12	5250 to 5350	Pass
			40	120.00	5310.07	5250 to 5350	Pass
			50	120.00	5310.02	5294 to 5326	Pass
802.11ac (VHT80)	MIMO	5210	20	102.00	5290.03	5258 to 5322	Pass
				120.00	5290.11	5258 to 5322	Pass
				138.00	5290.02	5258 to 5322	Pass
			-30	102.00	5290.00	5258 to 5322	Pass
			-20	120.00	5290.04	5250 to 5350	Pass
			-10	120.00	5290.10	5250 to 5350	Pass
			0	120.00	5290.00	5250 to 5350	Pass
			10	120.00	5290.10	5250 to 5350	Pass
			30	120.00	5290.12	5250 to 5350	Pass
			40	120.00	5290.01	5250 to 5350	Pass
			50	120.00	5290.02	5258 to 5322	Pass



Test Mode: 5.6G							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit	Verdict
802.11a	SISO	5500	20	102.00	5500.11	5492 to 5508	Pass
				120.00	5500.12	5492 to 5508	Pass
				138.00	5500.12	5492 to 5508	Pass
			-30	102.00	5500.13	5492 to 5508	Pass
				120.00	5500.04	5470 to 5725	Pass
				120.00	5500.01	5470 to 5725	Pass
			-20	120.00	5500.07	5470 to 5725	Pass
				120.00	5500.11	5470 to 5725	Pass
				120.00	5500.06	5470 to 5725	Pass
			-10	120.00	5500.05	5470 to 5725	Pass
				120.00	5500.05	5470 to 5725	Pass
				120.00	5500.07	5492 to 5508	Pass
			0	102.00	5580.00	5572 to 5588	Pass
				120.00	5580.04	5572 to 5588	Pass
				138.00	5580.12	5572 to 5588	Pass
		5580	20	102.00	5580.08	5572 to 5588	Pass
				120.00	5580.04	5470 to 5725	Pass
				120.00	5580.07	5470 to 5725	Pass
			-30	120.00	5580.03	5470 to 5725	Pass
				120.00	5580.09	5470 to 5725	Pass
				120.00	5580.01	5470 to 5725	Pass
			-20	120.00	5580.09	5470 to 5725	Pass
				120.00	5580.09	5470 to 5725	Pass
				120.00	5580.05	5572 to 5588	Pass
			-10	102.00	5700.04	5692 to 5708	Pass
				120.00	5700.00	5692 to 5708	Pass
				138.00	5700.01	5692 to 5708	Pass
		5700	20	102.00	5700.06	5692 to 5708	Pass
				120.00	5700.08	5470 to 5725	Pass
				120.00	5700.12	5470 to 5725	Pass
			-30	120.00	5700.08	5470 to 5725	Pass
				120.00	5700.08	5470 to 5725	Pass
				120.00	5700.12	5470 to 5725	Pass
			-20	120.00	5700.10	5470 to 5725	Pass
				120.00	5700.03	5470 to 5725	Pass
				120.00	5700.03	5692 to 5708	Pass
			-10	102.00	5500.01	5492 to 5508	Pass
				120.00	5500.10	5492 to 5508	Pass
				138.00	5500.05	5492 to 5508	Pass



			-30	102.00	5500.03	5492 to 5508	Pass
			-20	120.00	5500.02	5470 to 5725	Pass
			-10	120.00	5500.06	5470 to 5725	Pass
			0	120.00	5500.04	5470 to 5725	Pass
			10	120.00	5500.08	5470 to 5725	Pass
			30	120.00	5500.13	5470 to 5725	Pass
			40	120.00	5500.11	5470 to 5725	Pass
			50	120.00	5500.03	5492 to 5508	Pass
		5580	20	102.00	5580.07	5572 to 5588	Pass
				120.00	5580.09	5572 to 5588	Pass
				138.00	5580.08	5572 to 5588	Pass
			-30	102.00	5580.07	5572 to 5588	Pass
			-20	120.00	5580.11	5470 to 5725	Pass
			-10	120.00	5580.06	5470 to 5725	Pass
			0	120.00	5580.09	5470 to 5725	Pass
			10	120.00	5580.04	5470 to 5725	Pass
			30	120.00	5580.05	5470 to 5725	Pass
			40	120.00	5580.12	5470 to 5725	Pass
			50	120.00	5580.02	5572 to 5588	Pass
		5700	20	102.00	5700.09	5692 to 5708	Pass
				120.00	5700.08	5692 to 5708	Pass
				138.00	5700.01	5692 to 5708	Pass
			-30	102.00	5700.07	5692 to 5708	Pass
			-20	120.00	5700.02	5470 to 5725	Pass
			-10	120.00	5700.12	5470 to 5725	Pass
			0	120.00	5700.12	5470 to 5725	Pass
			10	120.00	5700.06	5470 to 5725	Pass
			30	120.00	5700.01	5470 to 5725	Pass
			40	120.00	5700.08	5470 to 5725	Pass
			50	120.00	5700.01	5692 to 5708	Pass
	802.11n (HT40)	MIMO	5510	102.00	5510.12	5494 to 5526	Pass
				120.00	5510.07	5494 to 5526	Pass
				138.00	5510.03	5494 to 5526	Pass
			-30	102.00	5510.11	5494 to 5526	Pass
			-20	120.00	5510.03	5470 to 5725	Pass
			-10	120.00	5510.02	5470 to 5725	Pass
			0	120.00	5510.01	5470 to 5725	Pass
			10	120.00	5510.12	5470 to 5725	Pass
			30	120.00	5510.01	5470 to 5725	Pass



802.11ac (VHT20)	MIMO	5550	40	120.00	5510.08	5470 to 5725	Pass
			50	120.00	5510.00	5494 to 5526	Pass
			20	102.00	5550.10	5534 to 5566	Pass
				120.00	5550.05	5534 to 5566	Pass
				138.00	5550.12	5534 to 5566	Pass
			-30	102.00	5550.03	5534 to 5566	Pass
			-20	120.00	5550.09	5470 to 5725	Pass
			-10	120.00	5550.08	5470 to 5725	Pass
			0	120.00	5550.01	5470 to 5725	Pass
			10	120.00	5550.09	5470 to 5725	Pass
			30	120.00	5550.11	5470 to 5725	Pass
			40	120.00	5550.03	5470 to 5725	Pass
			50	120.00	5550.09	5534 to 5566	Pass
		5670	20	102.00	5670.04	5654 to 5686	Pass
				120.00	5670.09	5654 to 5686	Pass
				138.00	5670.05	5654 to 5686	Pass
			-30	102.00	5670.09	5654 to 5686	Pass
			-20	120.00	5670.12	5470 to 5725	Pass
			-10	120.00	5670.12	5470 to 5725	Pass
			0	120.00	5670.05	5470 to 5725	Pass
			10	120.00	5670.04	5470 to 5725	Pass
			30	120.00	5670.05	5470 to 5725	Pass
			40	120.00	5670.05	5470 to 5725	Pass
			50	120.00	5670.13	5654 to 5686	Pass
		5500	20	102.00	5500.11	5492 to 5508	Pass
				120.00	5500.13	5492 to 5508	Pass
				138.00	5500.13	5492 to 5508	Pass
			-30	102.00	5500.07	5492 to 5508	Pass
			-20	120.00	5500.05	5470 to 5725	Pass
			-10	120.00	5500.12	5470 to 5725	Pass
			0	120.00	5500.09	5470 to 5725	Pass
			10	120.00	5500.04	5470 to 5725	Pass
			30	120.00	5500.10	5470 to 5725	Pass
			40	120.00	5500.00	5470 to 5725	Pass
			50	120.00	5500.11	5492 to 5508	Pass
		5580	20	102.00	5580.10	5572 to 5588	Pass
				120.00	5580.11	5572 to 5588	Pass
				138.00	5580.09	5572 to 5588	Pass
			-30	102.00	5580.06	5572 to 5588	Pass



802.11ac (VHT40)	MIMO		-20	120.00	5580.09	5470 to 5725	Pass
			-10	120.00	5580.04	5470 to 5725	Pass
			0	120.00	5580.03	5470 to 5725	Pass
			10	120.00	5580.06	5470 to 5725	Pass
			30	120.00	5580.03	5470 to 5725	Pass
			40	120.00	5580.11	5470 to 5725	Pass
			50	120.00	5580.00	5572 to 5588	Pass
		5700	20	102.00	5700.09	5692 to 5708	Pass
				120.00	5700.07	5692 to 5708	Pass
				138.00	5700.10	5692 to 5708	Pass
			-30	102.00	5700.01	5692 to 5708	Pass
			-20	120.00	5700.03	5470 to 5725	Pass
			-10	120.00	5700.11	5470 to 5725	Pass
			0	120.00	5700.10	5470 to 5725	Pass
			10	120.00	5700.08	5470 to 5725	Pass
			30	120.00	5700.12	5470 to 5725	Pass
			40	120.00	5700.07	5470 to 5725	Pass
			50	120.00	5700.07	5692 to 5708	Pass
		5510	20	102.00	5510.07	5494 to 5526	Pass
				120.00	5510.06	5494 to 5526	Pass
				138.00	5510.02	5494 to 5526	Pass
			-30	102.00	5510.06	5494 to 5526	Pass
			-20	120.00	5510.02	5470 to 5725	Pass
			-10	120.00	5510.06	5470 to 5725	Pass
			0	120.00	5510.00	5470 to 5725	Pass
			10	120.00	5510.10	5470 to 5725	Pass
			30	120.00	5510.09	5470 to 5725	Pass
			40	120.00	5510.01	5470 to 5725	Pass
			50	120.00	5510.04	5494 to 5526	Pass
		5550	20	102.00	5550.12	5534 to 5566	Pass
				120.00	5550.07	5534 to 5566	Pass
				138.00	5550.00	5534 to 5566	Pass
			-30	102.00	5550.11	5534 to 5566	Pass
			-20	120.00	5550.09	5470 to 5725	Pass
			-10	120.00	5550.11	5470 to 5725	Pass
			0	120.00	5550.10	5470 to 5725	Pass
			10	120.00	5550.06	5470 to 5725	Pass
			30	120.00	5550.08	5470 to 5725	Pass
			40	120.00	5550.01	5470 to 5725	Pass



		5670	50	120.00	5550.02	5534 to 5566	Pass
			20	102.00	5670.10	5654 to 5686	Pass
				120.00	5670.01	5654 to 5686	Pass
				138.00	5670.10	5654 to 5686	Pass
			-30	102.00	5670.09	5654 to 5686	Pass
			-20	120.00	5670.04	5470 to 5725	Pass
			-10	120.00	5670.04	5470 to 5725	Pass
			0	120.00	5670.01	5470 to 5725	Pass
			10	120.00	5670.09	5470 to 5725	Pass
			30	120.00	5670.04	5470 to 5725	Pass
			40	120.00	5670.04	5470 to 5725	Pass
			50	120.00	5670.01	5654 to 5686	Pass
802.11ac (VHT80)	MIMO	5530	20	102.00	5530.11	5498 to 5562	Pass
				120.00	5530.09	5498 to 5562	Pass
				138.00	5530.07	5498 to 5562	Pass
			-30	102.00	5530.11	5498 to 5562	Pass
			-20	120.00	5530.09	5470 to 5725	Pass
			-10	120.00	5530.12	5470 to 5725	Pass
			0	120.00	5530.01	5470 to 5725	Pass
			10	120.00	5530.04	5470 to 5725	Pass
			30	120.00	5530.10	5470 to 5725	Pass
			40	120.00	5530.04	5470 to 5725	Pass
			50	120.00	5530.02	5498 to 5562	Pass



Test Mode: 5.8G							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit	Verdict
802.11a	SISO	5745	20	102.00	5745.06	5737 to 5753	Pass
				120.00	5745.08	5737 to 5753	Pass
				138.00	5745.03	5737 to 5753	Pass
			-30	102.00	5745.12	5737 to 5753	Pass
				120.00	5745.12	5725 to 5850	Pass
				120.00	5745.04	5725 to 5850	Pass
			0	120.00	5745.01	5725 to 5850	Pass
				120.00	5745.03	5725 to 5850	Pass
				120.00	5745.03	5725 to 5850	Pass
			50	120.00	5745.01	5725 to 5850	Pass
				120.00	5745.03	5737 to 5753	Pass
				120.00	5745.03	5737 to 5753	Pass
		5785	20	102.00	5785.03	5777 to 5793	Pass
				120.00	5785.07	5777 to 5793	Pass
				138.00	5785.09	5777 to 5793	Pass
			-30	102.00	5785.04	5777 to 5793	Pass
				120.00	5785.07	5725 to 5850	Pass
				120.00	5785.13	5725 to 5850	Pass
			0	120.00	5785.12	5725 to 5850	Pass
				120.00	5785.02	5725 to 5850	Pass
				120.00	5785.11	5725 to 5850	Pass
			50	120.00	5785.13	5725 to 5850	Pass
				120.00	5785.13	5725 to 5850	Pass
				120.00	5785.08	5777 to 5793	Pass
		5825	20	102.00	5825.04	5817 to 5833	Pass
				120.00	5825.04	5817 to 5833	Pass
				138.00	5825.07	5817 to 5833	Pass
			-30	102.00	5825.11	5817 to 5833	Pass
				120.00	5825.10	5725 to 5850	Pass
				120.00	5825.03	5725 to 5850	Pass
			0	120.00	5825.03	5725 to 5850	Pass
				120.00	5825.11	5725 to 5850	Pass
				120.00	5825.01	5725 to 5850	Pass
			50	120.00	5825.09	5725 to 5850	Pass
				120.00	5825.09	5817 to 5833	Pass
				120.00	5825.09	5817 to 5833	Pass
802.11n (HT20)	MIMO	5745	20	102.00	5745.08	5737 to 5753	Pass
				120.00	5745.03	5737 to 5753	Pass
				138.00	5745.12	5737 to 5753	Pass
			-30	102.00	5745.01	5737 to 5753	Pass



			-20	120.00	5745.10	5725 to 5850	Pass
			-10	120.00	5745.08	5725 to 5850	Pass
			0	120.00	5745.07	5725 to 5850	Pass
			10	120.00	5745.07	5725 to 5850	Pass
			30	120.00	5745.05	5725 to 5850	Pass
			40	120.00	5745.04	5725 to 5850	Pass
			50	120.00	5745.12	5737 to 5753	Pass
		5785	20	102.00	5785.09	5777 to 5793	Pass
				120.00	5785.09	5777 to 5793	Pass
				138.00	5785.07	5777 to 5793	Pass
			-30	102.00	5785.05	5777 to 5793	Pass
			-20	120.00	5785.11	5725 to 5850	Pass
			-10	120.00	5785.02	5725 to 5850	Pass
			0	120.00	5785.01	5725 to 5850	Pass
			10	120.00	5785.00	5725 to 5850	Pass
			30	120.00	5785.02	5725 to 5850	Pass
			40	120.00	5785.09	5725 to 5850	Pass
			50	120.00	5785.12	5777 to 5793	Pass
		5825	20	102.00	5825.04	5817 to 5833	Pass
				120.00	5825.08	5817 to 5833	Pass
				138.00	5825.13	5817 to 5833	Pass
			-30	102.00	5825.02	5817 to 5833	Pass
			-20	120.00	5825.07	5725 to 5850	Pass
			-10	120.00	5825.04	5725 to 5850	Pass
			0	120.00	5825.07	5725 to 5850	Pass
			10	120.00	5825.01	5725 to 5850	Pass
			30	120.00	5825.05	5725 to 5850	Pass
			40	120.00	5825.03	5725 to 5850	Pass
			50	120.00	5825.03	5817 to 5833	Pass
		5755	20	102.00	5755.11	5739 to 5771	Pass
				120.00	5755.05	5739 to 5771	Pass
				138.00	5755.07	5739 to 5771	Pass
			-30	102.00	5755.09	5739 to 5771	Pass
			-20	120.00	5755.03	5725 to 5850	Pass
			-10	120.00	5755.07	5725 to 5850	Pass
			0	120.00	5755.11	5725 to 5850	Pass
			10	120.00	5755.12	5725 to 5850	Pass
			30	120.00	5755.07	5725 to 5850	Pass
			40	120.00	5755.07	5725 to 5850	Pass
			50	120.00	5755.04	5739 to 5771	Pass



802.11ac (VHT20)	MIMO	5795	20	102.00	5795.02	5779 to 5811	Pass
				120.00	5795.09	5779 to 5811	Pass
				138.00	5795.12	5779 to 5811	Pass
			-30	102.00	5795.12	5779 to 5811	Pass
			-20	120.00	5795.13	5725 to 5850	Pass
			-10	120.00	5795.04	5725 to 5850	Pass
			0	120.00	5795.08	5725 to 5850	Pass
			10	120.00	5795.12	5725 to 5850	Pass
			30	120.00	5795.02	5725 to 5850	Pass
			40	120.00	5795.00	5725 to 5850	Pass
			50	120.00	5795.11	5779 to 5811	Pass
		5745	20	102.00	5745.05	5737 to 5753	Pass
				120.00	5745.03	5737 to 5753	Pass
				138.00	5745.05	5737 to 5753	Pass
			-30	102.00	5745.04	5737 to 5753	Pass
			-20	120.00	5745.05	5725 to 5850	Pass
			-10	120.00	5745.07	5725 to 5850	Pass
			0	120.00	5745.10	5725 to 5850	Pass
			10	120.00	5745.02	5725 to 5850	Pass
			30	120.00	5745.04	5725 to 5850	Pass
			40	120.00	5745.07	5725 to 5850	Pass
			50	120.00	5745.12	5737 to 5753	Pass
		5785	20	102.00	5785.09	5777 to 5793	Pass
				120.00	5785.09	5777 to 5793	Pass
				138.00	5785.06	5777 to 5793	Pass
			-30	102.00	5785.01	5777 to 5793	Pass
			-20	120.00	5785.03	5725 to 5850	Pass
			-10	120.00	5785.10	5725 to 5850	Pass
			0	120.00	5785.12	5725 to 5850	Pass
			10	120.00	5785.04	5725 to 5850	Pass
			30	120.00	5785.03	5725 to 5850	Pass
			40	120.00	5785.04	5725 to 5850	Pass
			50	120.00	5785.01	5777 to 5793	Pass
		5825	20	102.00	5825.08	5817 to 5833	Pass
				120.00	5825.06	5817 to 5833	Pass
				138.00	5825.08	5817 to 5833	Pass
			-30	102.00	5825.09	5817 to 5833	Pass
			-20	120.00	5825.13	5725 to 5850	Pass
			-10	120.00	5825.03	5725 to 5850	Pass
			0	120.00	5825.13	5725 to 5850	Pass



			10	120.00	5825.09	5725 to 5850	Pass
			30	120.00	5825.10	5725 to 5850	Pass
			40	120.00	5825.08	5725 to 5850	Pass
			50	120.00	5825.04	5817 to 5833	Pass
802.11ac (VHT40)	MIMO	5755	20	102.00	5755.07	5739 to 5771	Pass
				120.00	5755.08	5739 to 5771	Pass
				138.00	5755.11	5739 to 5771	Pass
			-30	102.00	5755.10	5739 to 5771	Pass
			-20	120.00	5755.10	5725 to 5850	Pass
			-10	120.00	5755.05	5725 to 5850	Pass
			0	120.00	5755.12	5725 to 5850	Pass
			10	120.00	5755.09	5725 to 5850	Pass
			30	120.00	5755.01	5725 to 5850	Pass
			40	120.00	5755.08	5725 to 5850	Pass
			50	120.00	5755.02	5739 to 5771	Pass
		5795	20	102.00	5795.02	5779 to 5811	Pass
				120.00	5795.01	5779 to 5811	Pass
				138.00	5795.11	5779 to 5811	Pass
			-30	102.00	5795.10	5779 to 5811	Pass
			-20	120.00	5795.08	5725 to 5850	Pass
			-10	120.00	5795.13	5725 to 5850	Pass
			0	120.00	5795.11	5725 to 5850	Pass
			10	120.00	5795.02	5725 to 5850	Pass
			30	120.00	5795.11	5725 to 5850	Pass
			40	120.00	5795.07	5725 to 5850	Pass
			50	120.00	5795.07	5779 to 5811	Pass
802.11ac (VHT80)	MIMO	5775	20	102.00	5775.04	5743 to 5807	Pass
				120.00	5775.03	5743 to 5807	Pass
				138.00	5775.08	5743 to 5807	Pass
			-30	102.00	5775.06	5743 to 5807	Pass
			-20	120.00	5775.07	5725 to 5850	Pass
			-10	120.00	5775.11	5725 to 5850	Pass
			0	120.00	5775.05	5725 to 5850	Pass
			10	120.00	5775.12	5725 to 5850	Pass
			30	120.00	5775.13	5725 to 5850	Pass
			40	120.00	5775.09	5725 to 5850	Pass
			50	120.00	5775.11	5743 to 5807	Pass



10. Antenna Requirement

10.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /15.407
Requirement	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. 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.

10.2. Antenna Connected Construction

The antenna is a FPC antenna which permanently attached, and the best case gain of the antenna is ANT1: 4.89dBi, ANT2: 4.54dBi 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 -----

