Hisense Communication Co., Ltd.

RF TEST REPORT

Report Type:
FCC Part 15.407 RF report

Model:
MW604

REPORT NUMBER:
220100379SHA-005

ISSUE DATE:
March 1, 2022

DOCUMENT CONTROL NUMBER:
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TEST REPORT

Report no.: 220100379SHA-005

Applicant:	Hisense Communication Co., Ltd. No.218, Qianwangang Road, Economic and Technological Development Zone, Qingdao, Shandong Province,China
Manufacturer:	Hisense Communication Co., Ltd. No.218, Qianwangang Road, Economic and Technological Development Zone, Qingdao, Shandong Province,China
Product Name:	BT/Wi-Fi Module
Type/Model:	MW604
FCC ID:	SARMW604

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR Part 15 (2019): Radio Frequency Devices (Subpart C)

47CFR Part 15 (2019): Radio Frequency Devices (Subpart E)

ANSI C63.10 (2013): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

PREPARED BY:	**REVIEWED BY:**
Project Engineer Dylan Tang	Reviewer Wakeyou Wang

Content

Revision History

Report No.	Version	Description	Issued Date
220100379SHA-005	Rev. 01	Initial issue of report	March 1, 2022

TEST REPORT

Measurement result summary

TEST ITEM	FCC REFERENCE	RESULT
26 dB Bandwidth & 99% Occupied Bandwidth	15.407(a)	Pass
Maximum Conducted Output Power	15.407(a)	Pass
Power spectral density	15.407(a)	Pass
In-Band Emissions (Channel Mask)	15.407(b)	Pass
Contention Based Protocol	15.407(d)	Pass
Radiated emission	15.407(b) 15.205 15.209	Pass
Power line conducted emission	15.407(b) 15.207	Pass
Frequency Stability	15.407(g)	Pass
Antenna requirement	15.203 -	Pass

Notes: 1: NA =Not Applicable
2. Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.
3: Additions, Deviations and Exclusions from Standards: None.

TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	BT/Wi-Fi Module
Type/Model:	MW604
Description of EUT:	The EUT is a BT/Wi-Fi Module which supports 802.11a/b/g/n/ac/ax mode, it has only one model.
Rating:	DC 5V
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	V1.00
Serial numbers:	0211022-65-001(for radiation sample), 0211022-65-002(for conduction sample)
Sample received date:	December 15, 2021
Date of test:	December 15, 2021 ~ February 25, 2022

1.2 Technical Specification

Frequency Range:	5925 ~ 6425MHz 6425 ~ 6525MHz 6525 ~ 6875MHz 6875 ~ 7125MHz
Support Standards:	802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80), 802.11ax(HE20), 802.11ax(HE40) , 802.11ax(HE80)
Type of Modulation:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) OFDMA (BPSK, QPSK, 16QAM, 64QAM,256QAM,1024QAM)
Channel Number:	For 5925 ~ 6425MHz band: Channel 1 - 93 For 6425 ~ 6525MHz Band: Channel 97 - 119 For 6525 ~ 6875MHz Band: Channel 117 - 187 For 6875 ~ 7125MHz band: Channel 189 - 233

1.3 Working Frequencies for this report

U-NII 5 Band (5925 ~ 6425MHz)

802.11n(HT20)/ ac(HT20)/ ax(HE20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5955MHz	5	5975MHz	9	5995MHz	13	6015MHz
17	6035MHz	21	6055MHz	25	6075MHz	29	6095MHz
33	6115MHz	37	6135MHz	41	6155MHz	45	6175MHz
49	6195MHz	53	6215MHz	57	6235MHz	61	6255MHz
65	6275MHz	69	6295MHz	73	6315MHz	77	6335MHz

81	6355MHz	85	6375MHz	89	6395MHz	93	6415MHz
802.11n(HT40)/ ac(HT40)/ ax(HE40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965MHz	11	6005MHz	19	6045MHz	27	6085MHz
35	6125MHz	43	6165MHz	51	6205MHz	59	6245MHz
67	6285MHz	75	6325MHz	83	6365MHz	91	6405MHz
802.11ac(HT80)/ ax(HE80)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985MHz	23	6065MHz	39	6145MHz	55	6225MHz
71	6305MHz	87	6385MHz	-	-	-	-

U-NII 6 Band (6425 ~ 6525MHz)

802.11n(HT20)/ ac(HT20)/ ax(HE20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
97	6435MHz	101	6455MHz	105	6475MHz	109	6495MHz
113	6515MHz	-	-	-	-	-	-
802.11n(HT40)/ ac(HT40)/ ax(HE40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
99	6445MHz	107	6485MHz	115	6525MHz	-	-
802.11ac(HT80)/ ax(HE80)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
103	6465MHz	119	6545MHz	-	-	-	-

U-NII 7 Band (6525 ~ 6875MHz)

802.11n(HT20)/ ac(HT20)/ ax(HE20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535MHz	121	6555MHz	125	6575MHz	129	6595MHz
133	6615MHz	137	6635MHz	141	6655MHz	145	6675MHz
149	6695MHz	153	6715MHz	157	6735MHz	161	6755MHz
165	6775MHz	169	6795MHz	173	6815MHz	177	6835MHz
181	6855MHz	185	6875MHz	-	-	-	-
802.11n(HT40)/ ac(HT40)/ ax(HE40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
123	6565MHz	131	6605MHz	139	6645MHz	147	6685MHz
155	6725MHz	163	6765MHz	171	6805MHz	179	6845MHz
187	6885MHz	-	-	-	-	-	-
802.11ac(HT80)/ ax(HE80)							

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
135	6625MHz	151	6705MHz	167	6785MHz	183	6865MHz

U-NII 8 Band (6875 ~ 7125MHz)

802.11n(HT20)/ ac(HT20)/ ax(HE20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
189	6895MHz	193	6915MHz	197	6935MHz	201	6955MHz
205	6975MHz	209	6995MHz	213	7015MHz	217	7035MHz
221	7055MHz	225	7075MHz	229	7095MHz	233	7115MHz
802.11n(HT40)/ ac(HT40)/ ax(HE40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
195	6925MHz	203	6965MHz	211	7005MHz	219	7045MHz
227	7085MHz	-	-	-	-	-	-
802.11ac(HT80)/ ax(HE80)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
199	6945MHz	215	7025MHz	-	-	-	-

1.4 Antenna information

No.	Antenna Type	Gain	Note
1	PCB Antenna	2.0dBi	On Board type
2	PCB Antenna	1.9dBi	On Board type

Mode	Tx/Rx Function	Beamforming function	CDD function	Directional gain (dBi)
802.11n(HT20)	2Tx/2Rx	NO	NO	4.96
802.11n(HT40)	2Tx/2Rx	NO	NO	4.96
802.11ac(HT20)	2Tx/2Rx	NO	NO	4.96
802.11ac(HT40)	2Tx/2Rx	NO	NO	4.96
802.11ax(HE20)	2Tx/2Rx	NO	NO	4.96
802.11ax(HE40)	2Tx/2Rx	NO	NO	4.96
802.11ac(HT80)	2Tx/2Rx	NO	NO	4.96
802.11ac(HE40)	2Tx/2Rx	NO	NO	4.96
Note: For 802.11n/ac/ax modes, it can support 2TX, all the two transmit signals are completely correlated with each other, so the directional gain = 10 log $((10^{G1/20} + 10^{G2/20} + \ldots + 10^{Gn/20})^2 / N_{ANT})$				

1.5 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN1175
	IC Registration Lab CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2019)
ANSI C63.10 (2013)
KDB 987594 D02 V01
KDB 789033 D02 v02r01
KDB 662911 D01 v02r01
KDB 414788 D01 v01r01

2.2 Mode of operation during the test

While testing transmitting mode of EUT, the continuously transmission was applied by following software.

Software name	Manufacturer	Version	Supplied by
MT7961 QA	-	0.0.2.39	Client

The lowest, middle and highest channel for the following modes were tested as representatives.

Frequency Band (MHz)	Mode	Lowest (MHz)	Middle (MHz)	Highest (MHz)
5925 - 6425	802.11n(HT20)	5955	6175	6415
	802.11n(HT40)	5965	6165	6405
	802.11ac(HT20)	5955	6175	6415
	802.11ac(HT40)	5965	6165	6405
	802.11ax(HE20)	5955	6175	6415
	802.11ax(HE40)	5965	6165	6405
	802.11ac(HT80)	5985	6145	6385
	802.11ax(HE80)	5985	6145	6385
6425 - 6525	802.11n(HT20)	6435	6475	6515
	802.11n(HT40)	6445	6485	6525
	802.11ac(HT20)	6435	6475	6515
	802.11ac(HT40)	6445	6485	6525
	802.11ax(HE20)	6435	6475	6515
	802.11ax(HE40)	6445	6485	6525
	802.11ac(HT80)	6475	/	6545
	802.11ax(HE80)	6475	/	6545
6525 - 6875	802.11n(HT20)	6535	6695	6875
	802.11n(HT40)	6565	6685	6885

	802.11ac(HT20)	6535	6695	6875
	802.11ac(HT40)	6565	6685	6885
	802.11ax(HT20)	6535	6695	6875
	802.11ax(HT40)	6565	6685	6885
	802.11ac(HT80)	6625	6705	6865
	802.11ax(HE80)	6625	6705	6865
6875 - 7125	802.11n(HT20)	6895	6995	7115
	802.11n(HT40)	6925	6965	7085
	802.11ac(HT20)	6895	6995	7115
	802.11ac(HT40)	6925	6965	7085
	802.11ax(HE20)	6895	6995	7115
	802.11ax(HE40)	6925	6965	7085
	802.11ac(HT80)	6945	7025	/
	802.11ax(HE80)	6945	7025	/

Data rate and Power setting:

The pre-scan for the conducted power with all data rates in each modulation and band was used, and the worst case was found and used in all test cases. After this pre-scan, we choose the following table of the data rata as the worst case.

Frequency Band (MHz)	Mode	Worst case data rate
5925 - 6425	802.11a	6Mbps
	802.11n(HT20)	MCS0
	802.11n(HT40)	MCS0
	802.11ac(VHT20)	MCS0
	802.11ac(VHT40)	MCS0
	802.11ax(HE20)	MCS0
	802.11ax(HE40)	MCS0
	802.11ac(VHT80)	MCS0
	802.11ax(HE80)	MCS0
6425 - 6525	802.11a	6Mbps
	802.11n(HT20)	MCS0
	802.11n(HT40)	MCS0
	802.11ac(VHT20)	MCS0
	802.11ac(VHT40)	MCS0
	802.11ax(HE20)	MCS0
	802.11ax(HE40)	MCS0
	802.11ac(VHT80)	MCS0
	802.11ax(HE80)	MCS0
6525 - 6875	802.11a	6Mbps
	802.11n(HT20)	MCS0
	802.11n(HT40)	MCS0

	802.11ac(HT20)	MCS0
	802.11ac(VHT40)	MCS0
	802.11ax(VHE20)	MCS0
	802.11ax(HE40)	MCS0
	802.11ac(VHT80)	MCS0
	802.11ax(HE80)	MCS0
6875 - 7125	802.11a	6Mbps
	802.11n(HT20)	MCS0
	802.11n(HT40)	MCS0
	802.11ac(VHT20)	MCS0
	802.11ac(VHT40)	MCS0
	802.11ax(HE20)	MCS0
	802.11ax(HE40)	MCS0
	802.11ac(VHT80)	MCS0
	802.11ax(HE80)	MCS0

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

2.4 Test peripherals list

Item No.	Name	Band and Model	Description
1	Laptop computer	DELL 5480	-
2	RF cable	/	0.2m length; 0.5dB loss

2.5 Test environment condition:

Test items	Temperature	Humidity
26 dB Bandwidth & 99% Occupied Bandwidth	19°C	53% RH
Maximum Conducted Output Power		
Power spectral density		
In-Band Emissions (Channel Mask)		
Contention Based Protocol		
Radiated Emissions in restricted frequency bands	20°C	53% RH
Power line conducted emission	20°C	53% RH

2.6 Instrument list

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Test Receiver	R&S	ESCS 30	EC 2107	2022-07-09
☑	A.M.N.	R&S	ESH2-Z5	EC 3119	2022-11-10
☐	A.M.N.	R&S	ENV4200	EC 3558	2022-10-11
☑	Attenuator	Huaxiang	TS5-10dB-6G-B	21062303	2022-04-25
☑	Shielded room	Zhongyu	-	EC 2838	2023-01-12
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Test Receiver	R&S	ESIB 26	EC 3045	2022-09-16
☑	Test Receiver	Keysight	N9030B	EC 6078	2022-06-10
☑	Bilog Antenna	TESEQ	CBL 6112D	EC 4206	2022-09-25
☑	Horn antenna	R&S	HF 906	EC 3049	2023-01-17
☑	Horn antenna	ETS	3117	EC 4792-1	2022-03-15
☑	Horn antenna	ETS	3116C	EC 5955	2022-05-21
☑	Horn antenna	TOYO	HAP18-26W	EC 4792-3	2022-07-09
☑	Pre-amplifier	R&S	Pre-amp 18	EC5262	2022-06-11
☑	Semi-anechoic chamber	Albatross project	-	EC 3048	2022-07-14
RF test					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2022-03-16
☑	PXA Signal Analyzer	Keysight	N9030B	EC 6078	2022-06-10
☑	Power sensor	Agilent	U2021XA	EC 5338-1	2022-03-16
☑	Vector Signal Generator	Agilent	N5182B	EC 5175	2022-03-16
☑	MXG Analog Signal Generator	Agilent	N5181A	EC 5338-2	2022-03-16
☑	Test Receiver	R&S	ESCI 7	EC 4501	2022-09-16
☐	Universal Radio Communication Tester	R&S	CMW500	EC5944	2022-12-09
☐	Universal Radio Communication Tester	R&S	CMW500	Ec6209	2022-12-30
☑	Signal generator	Agilent	N5182A	Ec6172	2022-08-21
☑	Signal generator	Agilent	N5181A	Ec6171	2022-08-21
☑	Climate chamber	GWS	MT3065	EC 6021	2022-03-05
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3783	2022-03-03
☑	Pressure meter	YM3	Shanghai Mengde	EC 4620	2022-09-09

2.7 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Maximum peak output power	± 0.74dB
26 dB Bandwidth & 99% Occupied Bandwidth	
Power spectral density	
In-Band Emissions (Channel Mask)	
Contention Based Protocol	
Radiated Emissions in restricted frequency bands below 1GHz	± 4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	± 5.02dB
Emission outside the frequency band	± 2.89dB
Power line conducted emission	± 3.19dB

3 26 dB Bandwidth & 99% Occupied Bandwidth

Test result: Pass

3.1 Limit

None

3.2 Measurement Procedure

The EUT was tested according to test procedure of "KDB789033 D02 General UNII Test Procedures New Rules"

26 dB Bandwidth

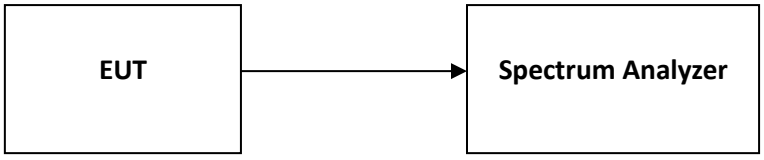
a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

99% Occupied Bandwidth

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 · RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

3.3 Test Configuration



3.4 The results of 26 dB Bandwidth & 99% Occupied Bandwidth

Please refer to Appendix A

TEST REPORT

4 In-Band Emissions (Channel Mask)

Test result: **Pass**

4.1 Limit

For transmitters operating within the 5.925-7.125GHz bands: Power spectral density must be suppressed by 20 dB at 1MHz outside of channel edge, by 28 Db at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequency between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limit must be linearly interpolated between 20 dB and 28dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28dB and 49 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40dB.

4.2 Measurement Procedurev01

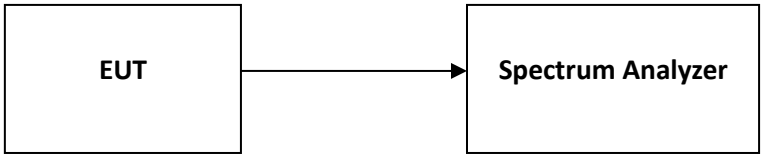
The EUT was tested according to test procedure of "KDB987594 D02 UNII 6GHz Measurement v01. Section J) In-Band Emissions.

1. Take nominal bandwidth as reference channel bandwidth provided that 26 Db emission bandwidth is always larger than nominal bandwidth

2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
a) Set the span to encompass the entire 26 dB EBW of the signal.
b) Set the RBW = same RBW used for 26 dB EBW measurement (1MHz for all supported bandwidth).
c) Set the video bandwidth (VBW) ≥ 3 x RBW.
d) Number of points in sweep≥ 2 × span / RBW.
e) Sweep = auto couple.
f) Detector = RMS.
g) Trace average at least 100 traces in power averaging (rms) mode.
h) Use the peak search function on the instrument to find the peak of the spectrum.
3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
a) Suppressed by 20 dB at 1 MHz outside of the channel edge.
b) Suppressed by 28 dB at one channel bandwidth from the channel center.
c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
4. Adjust the span to encompass the entire mask as necessary.
5. Clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

4.3 Test Configuration



4.4 The results of In-Band Emissions

Please refer to Appendix A

5 Maximum conducted output power and e.i.r.p.

Test result: Pass

5.1 Limit

☐ For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

☐ For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

☒ For a indoor client device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

☐ For a Dual client device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

☐ For a Dual client device operating under the control of an standard access point in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.2 Measurement Procedure

The EUT was tested according to test procedure of “KDB789033 D02 General UNII Test Procedures New Rules”

(i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

(iii) Set VBW ≥ 3 MHz.

(iv) Number of points in sweep ≥ 2 × span / RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

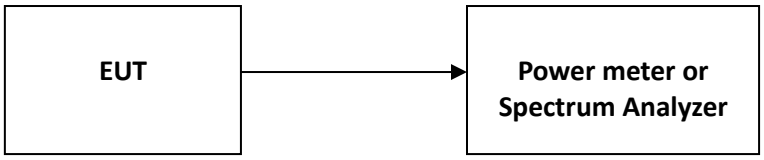
(vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”

(viii) Trace average at least 100 traces in power averaging (rms) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

5.3 Test Configuration



5.4 Test Results of Maximum conducted output power and e.i.r.p.

Please refer to Appendix A

6 Power spectrum density

Test result: **Pass**

6.1 Limit

☐ For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band.

☐ For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p in any 1-megahertz band.

☒ For a indoor client device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed -1 dBm e.i.r.p in any 1-megahertz band.

☐ For a Dual client device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed -1 dBm e.i.r.p in any 1-megahertz band.

☐ For a Dual client device operating under the control of an standard access point in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 17 dBm & 6dB below AP e.i.r.p in any 1-megahertz band.

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the less of original and original + (6 - antenna gain - beamforming gain).

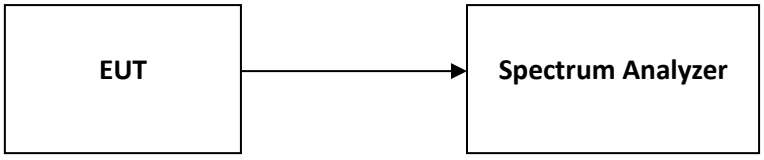
6.2 Measurement Procedure

The EUT was tested according to test procedure of "KDB789033 D02 General UNII Test Procedures New Rules"

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power…." (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
3. Make the following adjustments to the peak value of the spectrum, if applicable:
   a) If Method SA-2 or SA-2 Alternative was used, add 10 log (1/x), where x is the duty cycle, to the peak of the spectrum.
   b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
4. The result is the Maximum PSD over 1 MHz reference bandwidth.
5. 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 Section 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). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
   a) Set RBW ≥ 1/*T*, where *T* is defined in II.B.l.a).
   b) Set VBW ≥ 3 RBW.
   c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
   d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
   e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for steps 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

6.3 Test Configuration



6.4 Test Results of Power spectrum density

Please refer to Appendix A

7 Contention Based Protocol

Test result: **Pass**

7.1 Limit

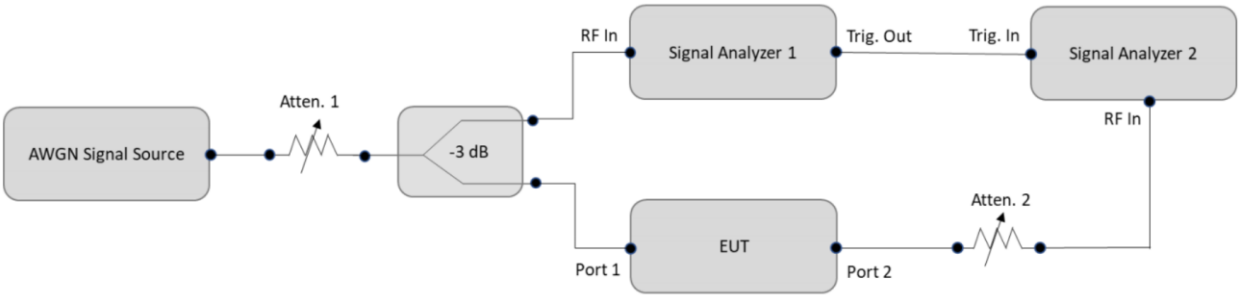
Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm).

7.2 Measurement Procedure

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate a 10 MHz-wide AWGN signal. Use Table 1 of KDB 987594 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level. Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in below figure.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9.Determie and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainly.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

7.3 Test Configuration



7.4 Test Results of Contention Based Protocol

Please refer to Appendix A

8 Radiated Emissions

Test result: **Pass**

8.1 Limit

The radiated emissions which fall in the restricted bands, and the radiated emissions below 1GHz, must comply with the radiated emission limits specified showed as below:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

The radiated emissions which fall outside the restrict bands, should comply with the EIRP limit as below:
For transmitters operating in the 5.925 – 6.425 / 6.425 – 6.525 / 6.525 – 6.875 / 6.875 – 7.125GHz band:

Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (3m) (dBµV/m)
<5925	-27	68.20
>7125		

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequencies (MHz)	Frequencies (MHz)	Frequencies (MHz)	Frequencies (MHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
1 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)
13.36 - 13.41	--	--	--

8.2 Measurement Procedure

For Radiated emission below 30MHz:

a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c) Both X and Y axes of the antenna are set to make the measurement.
d) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e) The test-receiver system was set to peak or quasi-peak detect function and specified bandwidth with maximum hold mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz:

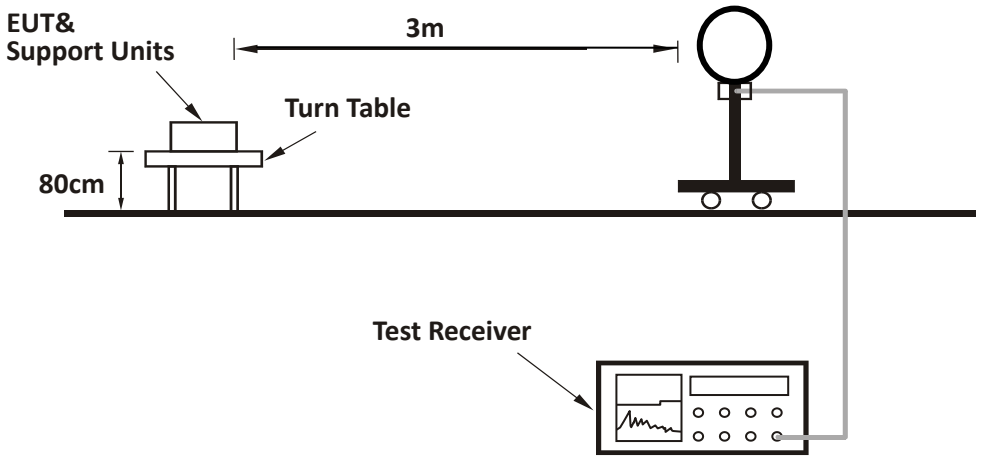
a) The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meters chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c) The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e) The test-receiver system was set to peak or quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

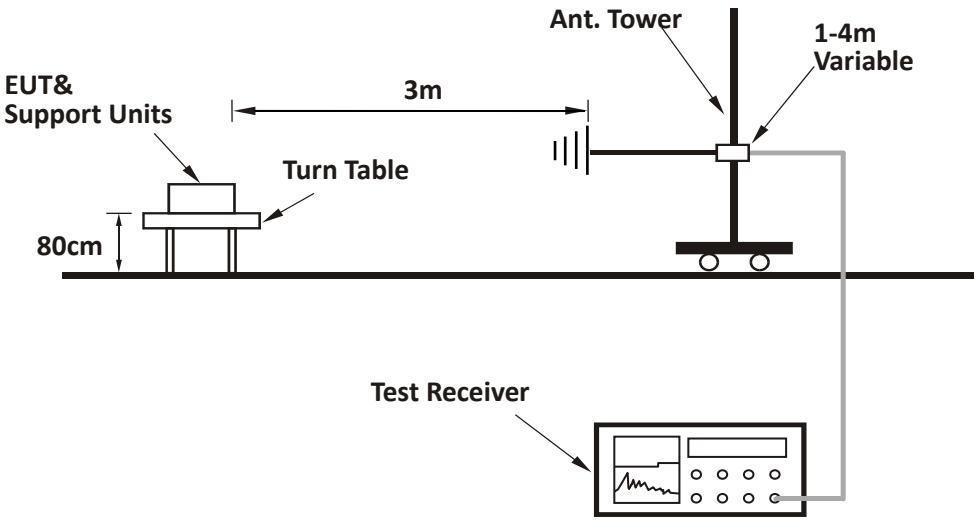
1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for peak or quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz at frequency above 1GHz for peak detection above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 3 x RBW (Duty cycle ≥ 98%) for average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

8.3 Test Configuration

For Radiated emission below 30MHz:

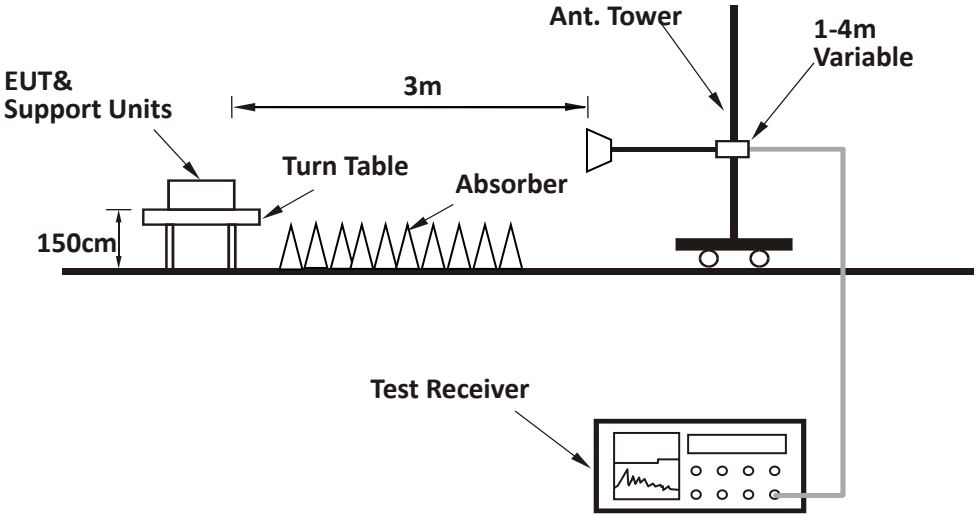


For Radiated emission 30MHz to 1GHz:



TEST REPORT

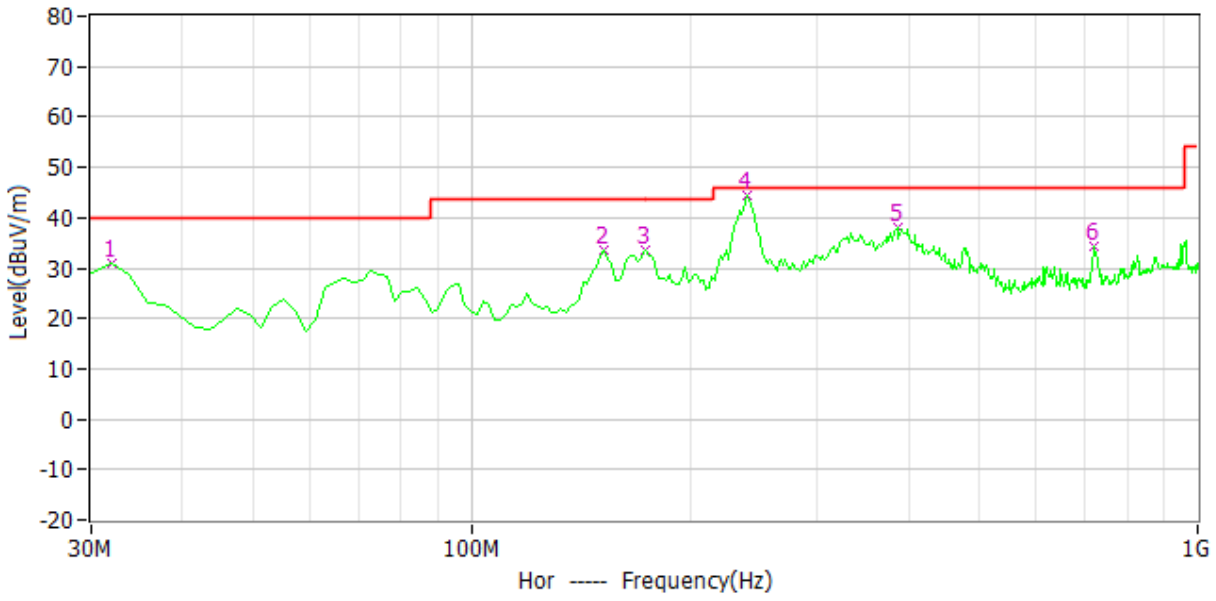
For Radiated emission above 1GHz:



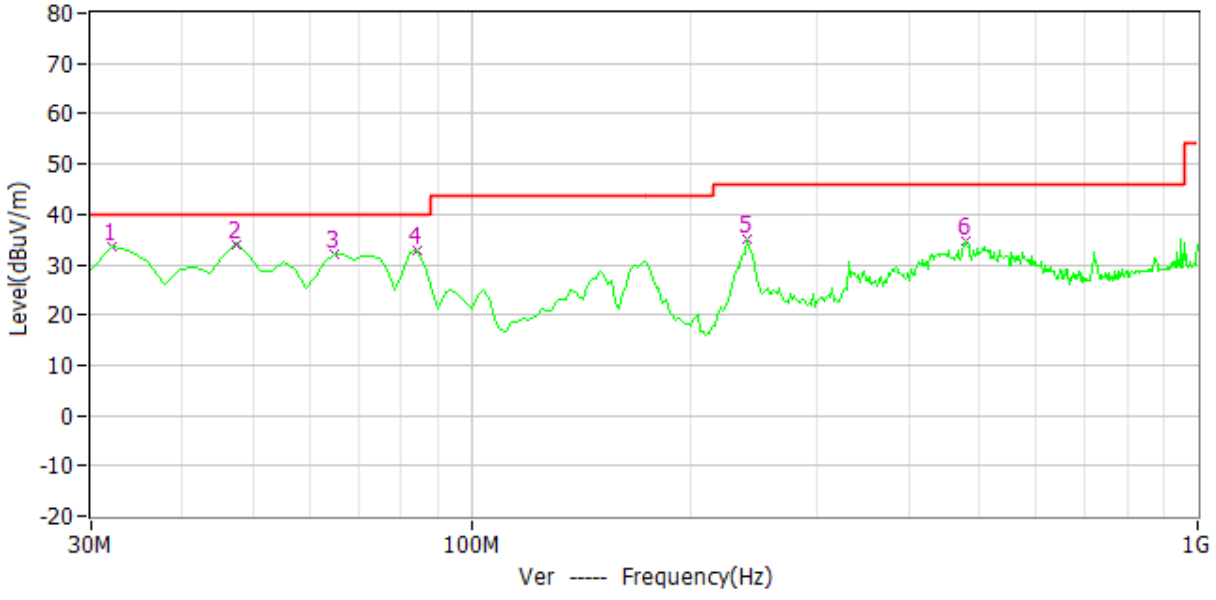
8.4 Test Results of Radiated Emissions

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Horizontal



Vertical



TEST REPORT

Test data below 1GHz

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	31.944	30.8	20.2	40.0	9.2	PK
H	152.465	33.7	12.3	43.5	9.8	PK
H	173.848	33.5	11.4	43.5	10.0	PK
H	239.940	44.3	13.4	46.0	1.7	PK
H	385.732	38.0	18.0	46.0	8.0	PK
H	722.024	34.3	22.8	46.0	11.7	PK
V	31.944	33.5	20.2	40.0	6.5	PK
V	47.495	34.1	11.4	40.0	5.9	PK
V	64.990	32.2	8.1	40.0	7.8	PK
V	84.429	32.7	9.8	40.0	7.3	PK
V	239.940	35.1	13.4	46.0	10.9	PK
V	479.038	34.7	19.9	46.0	11.3	PK

TEST REPORT

Test result above 1GHz:

The emission was conducted from 1GHz to 40GHz

U-NII-5 Band:

802.11n20

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	5955.00	89.4	5.8	Fundamental	/	PK
	V	5955.00	78.1	5.8	Fundamental	/	PK
	H	5894.00	50.1	5.4	88.20	38.1	PK
	H	5894.00	42.0	5.4	68.20	26.2	AV
	V	5838.00	50.3	5.0	88.20	37.9	PK
	V	5838.00	41.1	5.0	68.20	27.1	AV
	H	11910.00	39.6	14.1	68.20	28.6	PK
	H	17865.00	38.1	20.8	68.20	30.1	PK
	V	11910.00	40.8	14.1	68.20	27.4	PK
	V	17865.00	38.9	20.8	68.20	29.3	PK
M	H	12350.00	39.7	13.7	68.20	28.5	PK
	H	18525.00	50.0	2.7	68.20	18.2	PK
	V	12350.00	41.2	13.7	68.20	27.0	PK
	V	18525.00	51.6	2.7	68.20	16.6	PK
H	H	6415.00	92.7	6.1	Fundamental	/	PK
	V	6415.00	80.3	6.1	Fundamental	/	PK
	H	5882.00	49.3	5.3	88.20	38.9	PK
	H	5882.00	40.2	5.3	68.20	28.0	AV
	V	5878.00	48.3	5.3	88.20	39.9	PK
	V	5878.00	39.9	5.3	68.20	28.3	AV
	H	12830.00	40.2	13.0	68.20	28	PK
	H	19245.00	50.0	2.1	68.20	18.2	PK
	V	12830.00	42.5	13.0	68.20	25.7	PK
	V	19245.00	52.7	2.1	68.20	15.5	PK

TEST REPORT

802.11n40

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	5965.00	87.6	5.9	Fundamental	/	PK
	V	5965.00	76.7	5.9	Fundamental	/	PK
	H	5894.00	52.0	5.4	88.20	36.2	PK
	H	5894.00	43.8	5.4	68.20	24.4	AV
	V	5862.00	51.2	5.2	88.20	37.0	PK
	V	5862.00	42.9	5.2	68.20	25.3	AV
	H	11930.00	40.6	14.1	68.20	27.6	PK
	H	17895.00	37.0	20.8	68.20	31.2	PK
	V	11930.00	41.5	14.1	68.20	26.7	PK
	V	17895.00	39.8	20.8	68.20	28.4	PK
M	H	12330.00	40.0	13.7	68.20	28.2	PK
	H	18495.00	50.8	2.7	68.20	17.4	PK
	V	12330.00	40.2	13.7	68.20	28.0	PK
	V	18495.00	52.3	2.7	68.20	15.9	PK
H	H	6405.00	92.6	6.1	Fundamental	/	PK
	V	6405.00	80.6	6.1	Fundamental	/	PK
	H	5894.00	48.7	5.4	88.20	39.5	PK
	H	5894.00	40.5	5.4	68.20	27.7	AV
	V	5822.00	48.6	4.9	88.20	39.6	PK
	V	5822.00	40.0	4.9	68.20	28.2	AV
	H	12810.00	39.3	13.0	68.20	28.9	PK
	H	19215.00	51.4	2.1	68.20	16.8	PK
	V	12810.00	40.7	13.0	68.20	27.5	PK
	V	19215.00	52.3	2.1	68.20	15.9	PK

802.11ac20

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	5955.00	87.7	5.8	Fundamental	/	PK
	V	5955.00	77.8	5.8	Fundamental	/	PK
	H	5730.00	47.9	4.3	88.20	40.3	PK
	H	5730.00	39.5	4.3	68.20	28.7	AV
	V	5685.00	47.5	4.0	88.20	40.7	PK
	V	5685.00	39.1	4.0	68.20	29.1	AV
	H	11910.00	39.9	14.1	68.20	28.3	PK
	H	17865.00	38.4	20.8	68.20	29.8	PK
	V	11910.00	40.9	14.1	68.20	27.3	PK
	V	17865.00	39.3	20.8	68.20	28.9	PK
M	H	12350.00	40.8	13.7	68.20	27.4	PK
	H	18525.00	50.9	2.7	68.20	17.3	PK
	V	12350.00	42.1	13.7	68.20	26.1	PK
	V	18525.00	51.8	2.7	68.20	16.4	PK
H	H	6415.00	92.1	6.1	Fundamental	/	PK
	V	6415.00	80.5	6.1	Fundamental	/	PK
	H	5874.00	48.7	5.3	88.20	39.5	PK
	H	5874.00	40.1	5.3	68.20	28.1	AV
	V	5874.00	48.6	5.3	88.20	39.6	PK
	V	5874.00	39.8	5.3	68.20	28.4	AV
	H	12830.00	39.8	13.0	68.20	28.4	PK
	H	19245.00	49.9	2.1	68.20	18.3	PK
	V	12830.00	42.0	13.0	68.20	26.2	PK
	V	19245.00	52.2	2.1	68.20	16.0	PK

TEST REPORT

802.11ac40

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	5965.00	87.2	5.9	Fundamental	/	PK
	V	5965.00	76.0	5.9	Fundamental	/	PK
	H	5898.00	48.5	5.4	88.20	39.7	PK
	H	5898.00	40.7	5.4	68.20	27.5	AV
	V	5862.00	48.4	5.2	88.20	39.8	PK
	V	5862.00	40.0	5.2	68.20	28.2	AV
	H	11930.00	41.7	14.1	68.20	26.5	PK
	H	17895.00	38.1	20.8	68.20	30.1	PK
	V	11930.00	42.0	14.1	68.20	26.2	PK
	V	17895.00	39.6	20.8	68.20	28.6	PK
M	H	12330.00	40.5	13.7	68.20	27.7	PK
	H	18495.00	51.6	2.7	68.20	16.6	PK
	V	12330.00	41.9	13.7	68.20	26.3	PK
	V	18495.00	52.9	2.7	68.20	15.3	PK
H	H	6405.00	92.8	6.1	Fundamental	/	PK
	V	6405.00	81.3	6.1	Fundamental	/	PK
	H	5854.00	48.4	5.1	88.20	39.8	PK
	H	5854.00	41.3	5.1	68.20	26.9	AV
	V	5910.00	47.7	5.5	88.20	40.5	PK
	V	5910.00	40.8	5.5	68.20	27.4	AV
	H	12810.00	40.2	13.0	68.20	28	PK
	H	19215.00	51.7	2.1	68.20	16.5	PK
	V	12810.00	41.1	13.0	68.20	27.1	PK
	V	19215.00	52.8	2.1	68.20	15.4	PK

TEST REPORT

802.11ax20

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	5955.00	89.7	5.8	Fundamental	/	PK
	V	5955.00	79.0	5.8	Fundamental	/	PK
	H	5874.00	49.5	5.3	88.20	38.7	PK
	H	5874.00	41.2	5.3	68.20	27.0	AV
	V	5790.00	50.5	4.7	88.20	37.7	PK
	V	5790.00	42.5	4.7	68.20	25.7	AV
	H	11910.00	40.1	14.1	68.20	28.1	PK
	H	17865.00	38.6	20.8	68.20	29.6	PK
	V	11910.00	40.5	14.1	68.20	27.7	PK
	V	17865.00	38.5	20.8	68.20	29.7	PK
M	H	12350.00	40.5	13.7	68.20	27.7	PK
	H	18525.00	50.5	2.7	68.20	17.7	PK
	V	12350.00	41.8	13.7	68.20	26.4	PK
	V	18525.00	51.4	2.7	68.20	16.8	PK
H	H	6415.00	92.9	6.1	Fundamental	/	PK
	V	6415.00	82.4	6.1	Fundamental	/	PK
	H	5858.00	48.7	5.2	88.20	39.5	PK
	H	5858.00	41.1	5.2	68.20	27.1	AV
	V	5778.00	48.0	4.6	88.20	40.2	PK
	V	5778.00	39.8	4.6	68.20	28.4	AV
	H	12830.00	40.7	13.0	68.20	27.5	PK
	H	19245.00	50.9	2.1	68.20	17.3	PK
	V	12830.00	41.8	13.0	68.20	26.4	PK
	V	19245.00	52.1	2.1	68.20	16.1	PK

TEST REPORT

802.11ax40

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	5965.00	88.5	5.9	Fundamental	/	PK
	V	5965.00	75.8	5.9	Fundamental	/	PK
	H	5846.00	49.1	5.1	88.20	39.1	PK
	H	5846.00	42.2	5.1	68.20	26.0	AV
	V	5890.00	48.5	5.4	88.20	39.7	PK
	V	5890.00	41.5	5.4	68.20	26.7	AV
	H	11930.00	41.1	14.1	68.20	27.1	PK
	H	17895.00	37.5	20.8	68.20	30.7	PK
	V	11930.00	41.4	14.1	68.20	26.8	PK
	V	17895.00	38.2	20.8	68.20	30.0	PK
M	H	12330.00	40.2	13.7	68.20	28.0	PK
	H	18495.00	51.9	2.7	68.20	16.3	PK
	V	12330.00	40.8	13.7	68.20	27.4	PK
	V	18495.00	52.6	2.7	68.20	15.6	PK
H	H	6405.00	91.7	6.1	Fundamental	/	PK
	V	6405.00	81.2	6.1	Fundamental	/	PK
	H	5874.00	48.2	5.3	88.20	40.0	PK
	H	5874.00	41.1	5.3	68.20	27.1	AV
	V	5874.00	48.0	5.3	88.20	40.2	PK
	V	5874.00	40.6	5.3	68.20	27.6	AV
	H	12810.00	39.7	13.0	68.20	28.5	PK
	H	19215.00	51.8	2.1	68.20	16.4	PK
	V	12810.00	40.9	13.0	68.20	27.3	PK
	V	19215.00	52.9	2.1	68.20	15.3	PK

TEST REPORT

802.11ac80

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	5985.00	89.6	6.1	Fundamental	/	PK
	V	5985.00	76.9	6.1	Fundamental	/	PK
	H	5874.00	48.6	5.3	88.20	39.6	PK
	H	5874.00	41.3	5.3	68.20	26.9	AV
	V	5886.00	48.3	5.4	88.20	39.9	PK
	V	5886.00	40.9	5.4	68.20	27.3	AV
	H	11970.00	38.8	14.1	68.20	29.4	PK
	H	17955.00	39.5	21.0	68.20	28.7	PK
	V	11970.00	39.1	14.1	68.20	29.1	PK
	V	17955.00	39.4	21.0	68.20	28.8	PK
M	H	12290.00	38.3	13.0	68.20	29.9	PK
	H	18435.00	51.0	2.7	68.20	17.2	PK
	V	12290.00	38.8	13.0	68.20	29.4	PK
	V	18435.00	59.9	2.7	68.20	8.3	PK
H	H	6385.00	87.5	6.1	Fundamental	/	PK
	V	6385.00	76.2	6.1	Fundamental	/	PK
	H	5918.00	49.2	5.6	88.20	39.0	PK
	H	5918.00	41.8	5.6	68.20	26.4	AV
	V	5874.00	48.2	5.3	88.20	40	PK
	V	5874.00	40.6	5.3	68.20	27.6	AV
	H	12770.00	38.9	13.1	68.20	29.3	PK
	H	19155.00	52.1	2.1	68.20	16.1	PK
	V	12770.00	39.0	13.1	68.20	29.2	PK
	V	19155.00	53.0	2.1	68.20	15.2	PK

TEST REPORT

802.11ax80

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	5985.00	89.4	6.1	Fundamental	/	PK
	V	5985.00	76.3	6.1	Fundamental	/	PK
	H	5906.00	48.9	5.5	88.20	39.3	PK
	H	5906.00	41.5	5.5	68.20	26.7	AV
	V	5874.00	48.4	5.3	88.20	39.8	PK
	V	5874.00	40.7	5.3	68.20	27.5	AV
	H	11970.00	39.1	14.1	68.20	29.1	PK
	H	17955.00	39.9	21.0	68.20	28.3	PK
	V	11970.00	39.9	14.1	68.20	28.3	PK
	V	17955.00	39.5	21.0	68.20	28.7	PK
M	H	12290.00	38.8	13.0	68.20	29.4	PK
	H	18435.00	51.4	2.7	68.20	16.8	PK
	V	12290.00	39.1	13.0	68.20	29.1	PK
	V	18435.00	50.2	2.7	68.20	18.0	PK
H	H	6385.00	88.6	6.1	Fundamental	/	PK
	V	6385.00	76.2	6.1	Fundamental	/	PK
	H	5870.00	48.0	5.3	88.20	40.2	PK
	H	5870.00	40.1	5.3	68.20	28.1	AV
	V	5874.00	48.2	5.3	88.20	40.0	PK
	V	5874.00	40.3	5.3	68.20	27.9	AV
	H	12770.00	39.7	13.1	68.20	28.5	PK
	H	19155.00	52.5	2.1	68.20	15.7	PK
	V	12770.00	39.5	13.1	68.20	28.7	PK
	V	19155.00	53.3	2.1	68.20	14.9	PK

TEST REPORT

U-NII-6 Band:

802.11n20

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6435.00	91.5	6.1	Fundamental	/	PK
	V	6435.00	80.3	6.1	Fundamental	/	PK
	H	5902.00	48.7	5.5	88.20	39.5	PK
	H	5902.00	41.2	5.5	68.20	27.0	AV
	V	5918.00	48.8	5.6	88.20	39.4	PK
	V	5918.00	42.3	5.6	68.20	25.9	AV
	H	12870.00	39.6	12.9	68.20	28.6	PK
	H	19305.00	51.0	1.2	68.20	17.2	PK
	V	12870.00	41.2	12.9	68.20	27.0	PK
	V	19305.00	52.5	1.2	68.20	15.7	PK
M	H	12950.00	38.1	12.8	68.20	30.1	PK
	H	19425.00	51.4	2.1	68.20	16.8	PK
	V	12950.00	38.3	12.8	68.20	29.9	PK
	V	19425.00	52.8	2.1	68.20	15.4	PK
H	H	6515.00	93.4	6.1	Fundamental	/	PK
	V	6515.00	80.3	6.1	Fundamental	/	PK
	H	5910.00	49.0	5.5	88.20	39.2	PK
	H	5910.00	42.5	5.5	68.20	25.7	AV
	V	5874.00	47.6	5.3	88.20	40.6	PK
	V	5874.00	39.2	5.3	68.20	29.0	AV
	H	13030.00	38.9	12.7	68.20	29.3	PK
	H	19545.00	51.0	2.1	68.20	17.2	PK
	V	13030.00	39.1	12.7	68.20	29.1	PK
	V	19545.00	52.2	2.1	68.20	16.0	PK

TEST REPORT

802.11n40

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6445.00	90.0	6.1	Fundamental	/	PK
	V	6445.00	77.9	6.1	Fundamental	/	PK
	H	5862.00	48.2	5.2	88.20	40.0	PK
	H	5862.00	41.6	5.2	68.20	26.6	AV
	V	5898.00	47.9	5.4	88.20	40.3	PK
	V	5898.00	39.4	5.4	68.20	28.8	AV
	H	12890.00	39.6	12.9	68.20	28.6	PK
	H	19335.00	50.7	1.2	68.20	17.5	PK
	V	12890.00	39.8	12.9	68.20	28.4	PK
	V	19335.00	51.4	1.2	68.20	16.8	PK
M	H	12970.00	38.6	12.8	68.20	29.6	PK
	H	19455.00	50.8	1.2	68.20	17.4	PK
	V	12970.00	38.6	12.8	68.20	29.6	PK
	V	19455.00	52.3	1.2	68.20	40.0	PK
H	H	6525.00	91.7	6.1	Fundamental	/	PK
	V	6525.00	79.1	6.1	Fundamental	/	PK
	H	5918.00	47.9	5.6	88.20	40.3	PK
	H	5918.00	39.8	5.6	68.20	28.4	AV
	V	5898.00	48.2	5.4	88.20	40.0	PK
	V	5898.00	40.2	5.4	68.20	28.0	AV
	H	13050.00	39.2	12.7	68.20	29.0	PK
	H	19575.00	50.0	2.1	68.20	18.2	PK
	V	13050.00	39.7	12.7	68.20	28.5	PK
	V	19575.00	52.2	2.1	68.20	16.0	PK

TEST REPORT

802.11ac20

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6435.00	90.6	6.1	Fundamental	/	PK
	V	6435.00	80.8	6.1	Fundamental	/	PK
	H	5878.00	47.9	5.3	88.20	40.3	PK
	H	5878.00	39.5	5.3	68.20	28.7	AV
	V	5770.00	48.5	4.6	88.20	39.7	PK
	V	5770.00	41.2	4.6	68.20	27.0	AV
	H	12870.00	39.3	12.9	68.20	28.9	PK
	H	19305.00	51.3	1.2	68.20	16.9	PK
	V	12870.00	41.6	12.9	68.20	26.6	PK
	V	19305.00	52.5	1.2	68.20	15.7	PK
M	H	12950.00	38.9	12.8	68.20	29.3	PK
	H	19425.00	51.0	2.1	68.20	17.2	PK
	V	12950.00	39.4	12.8	68.20	28.8	PK
	V	19425.00	52.7	2.1	68.20	15.5	PK
H	H	6515.00	92.7	6.1	Fundamental	/	PK
	V	6515.00	82.3	6.1	Fundamental	/	PK
	H	5886.00	48.4	5.4	88.20	39.8	PK
	H	5886.00	40.2	5.4	68.20	28.0	AV
	V	5874.00	47.8	5.3	88.20	40.4	PK
	V	5874.00	39.7	5.3	68.20	28.5	AV
	H	13030.00	38.4	12.7	68.20	29.8	PK
	H	19545.00	51.2	2.1	68.20	17.0	PK
	V	13030.00	38.8	12.7	68.20	29.4	PK
	V	19545.00	52.4	2.1	68.20	15.8	PK

802.11ac40

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6445.00	90.0	6.1	Fundamental	/	PK
	V	6445.00	78.0	6.1	Fundamental	/	PK
	H	5858.00	48.2	5.2	88.20	40.0	PK
	H	5858.00	40.8	5.2	68.20	27.4	AV
	V	5910.00	48.1	5.5	88.20	40.1	PK
	V	5910.00	41.0	5.5	68.20	27.2	AV
	H	12890.00	39.9	12.9	68.20	28.3	PK
	H	19335.00	50.8	1.2	68.20	17.4	PK
	V	12890.00	40.2	12.9	68.20	28	PK
	V	19335.00	52.1	1.2	68.20	16.1	PK
M	H	12970.00	38.9	12.8	68.20	29.3	PK
	H	19455.00	50.6	1.2	68.20	17.6	PK
	V	12970.00	38.1	12.8	68.20	30.1	PK
	V	19455.00	52.6	1.2	68.20	40.0	PK
H	H	6525.00	89.5	6.1	Fundamental	/	PK
	V	6525.00	79.2	6.1	Fundamental	/	PK
	H	5866.00	47.7	5.2	88.20	40.5	PK
	H	5866.00	39.1	5.2	68.20	29.1	AV
	V	5882.00	48.0	5.3	88.20	40.2	PK
	V	5882.00	40.7	5.3	68.20	27.5	AV
	H	13050.00	39.4	12.7	68.20	28.8	PK
	H	19575.00	50.3	2.1	68.20	17.9	PK
	V	13050.00	38.2	12.7	68.20	30.0	PK
	V	19575.00	52.2	2.1	68.20	16.0	PK

TEST REPORT

802.11ax20

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6435.00	91.2	6.1	Fundamental	/	PK
	V	6435.00	80.7	6.1	Fundamental	/	PK
	H	5846.00	48.4	5.1	88.20	39.8	PK
	H	5846.00	40.1	5.1	68.20	28.1	AV
	V	5914.00	48.5	5.6	88.20	39.7	PK
	V	5914.00	40.3	5.6	68.20	27.9	AV
	H	12870.00	39.6	12.9	68.20	28.6	PK
	H	19305.00	51.5	1.2	68.20	16.7	PK
	V	12870.00	41.4	12.9	68.20	26.8	PK
	V	19305.00	52.2	1.2	68.20	16	PK
M	H	12950.00	38.3	12.8	68.20	29.9	PK
	H	19425.00	51.7	2.1	68.20	16.5	PK
	V	12950.00	38.4	12.8	68.20	29.8	PK
	V	19425.00	52.9	2.1	68.20	15.3	PK
H	H	6515.00	92.3	6.1	Fundamental	/	PK
	V	6515.00	81.9	6.1	Fundamental	/	PK
	H	5866.00	48.4	5.2	88.20	39.8	PK
	H	5866.00	41.2	5.2	68.20	27.0	AV
	V	5894.00	48.6	5.4	88.20	39.6	PK
	V	5894.00	41.5	5.4	68.20	26.7	AV
	H	13030.00	38.5	12.7	68.20	29.7	PK
	H	19545.00	51.3	2.1	68.20	16.9	PK
	V	13030.00	38.4	12.7	68.20	29.8	PK
	V	19545.00	52.7	2.1	68.20	15.5	PK

TEST REPORT

802.11ax40

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6445.00	88.9	6.1	Fundamental	/	PK
	V	6445.00	77.0	6.1	Fundamental	/	PK
	H	5902.00	48.3	5.5	88.20	39.9	PK
	H	5902.00	40.2	5.5	68.20	28.0	AV
	V	5882.00	48.8	5.3	88.20	39.4	PK
	V	5882.00	41.1	5.3	68.20	27.1	AV
	H	12890.00	39.3	12.9	68.20	28.9	PK
	H	19335.00	50.2	1.2	68.20	18.0	PK
	V	12890.00	39.5	12.9	68.20	28.7	PK
	V	19335.00	51.8	1.2	68.20	16.4	PK
M	H	12970.00	38.9	12.8	68.20	29.3	PK
	H	19455.00	50.6	1.2	68.20	17.6	PK
	V	12970.00	38.1	12.8	68.20	30.1	PK
	V	19455.00	52.6	1.2	68.20	15.6	PK
H	H	6525.00	89.4	6.1	Fundamental	/	PK
	V	6525.00	79.5	6.1	Fundamental	/	PK
	H	5858.00	47.7	5.2	88.20	40.5	PK
	H	5858.00	39.6	5.2	68.20	28.6	AV
	V	5902.00	48.1	5.5	88.20	40.1	PK
	V	5902.00	40.5	5.5	68.20	27.7	AV
	H	13050.00	39.6	12.7	68.20	28.6	PK
	H	19575.00	50.7	2.1	68.20	17.5	PK
	V	13050.00	38.4	12.7	68.20	29.8	PK
	V	19575.00	52.9	2.1	68.20	15.3	PK

TEST REPORT

802.11ac80

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6465.00	88.0	6.1	Fundamental	/	PK
	V	6465.00	75.9	6.1	Fundamental	/	PK
	H	5926.00	48.2	5.6	88.20	40.0	PK
	H	5926.00	41.0	5.6	68.20	27.2	AV
	V	5818.00	48.6	4.9	88.20	39.6	PK
	V	5818.00	41.6	4.9	68.20	26.6	AV
	H	12930.00	39.5	12.8	68.20	28.7	PK
	H	19395.00	50.2	1.2	68.20	18.0	PK
	V	12930.00	39.5	12.8	68.20	28.7	PK
	V	19395.00	50.9	1.2	68.20	17.3	PK
H	H	6545.00	87.4	6.2	Fundamental	/	PK
	V	6545.00	77.9	6.2	Fundamental	/	PK
	H	5886.00	48.7	5.4	88.20	39.5	PK
	H	5886.00	40.2	5.4	68.20	28.0	AV
	V	5850.00	48.8	5.1	88.20	39.4	PK
	V	5850.00	41.0	5.1	68.20	27.2	AV
	H	13090.00	40.3	12.7	68.20	27.9	PK
	H	19635.00	50.8	2.1	68.20	17.4	PK
	V	13090.00	40.3	12.7	68.20	27.9	PK
	V	19635.00	51.1	2.1	68.20	17.1	PK

TEST REPORT

802.11ax80

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6465.00	86.3	6.1	Fundamental	/	PK
	V	6465.00	76.2	6.1	Fundamental	/	PK
	H	5770.00	48.3	4.6	88.20	39.9	PK
	H	5770.00	41.0	4.6	68.20	27.2	AV
	V	5926.00	48.4	5.6	88.20	39.8	PK
	V	5926.00	41.2	5.6	68.20	27.0	AV
	H	12930.00	39.7	12.8	68.20	28.5	PK
	H	19395.00	50.4	1.2	68.20	17.8	PK
	V	12930.00	40.1	12.8	68.20	28.1	PK
	V	19395.00	51.2	1.2	68.20	17.0	PK
H	H	6545.00	88.9	6.2	Fundamental	/	PK
	V	6545.00	76.1	6.2	Fundamental	/	PK
	H	5709.00	48.5	4.2	88.20	39.7	PK
	H	5709.00	41.3	4.2	68.20	26.9	AV
	V	5866.00	48.1	5.2	88.20	40.1	PK
	V	5866.00	40.0	5.2	68.20	28.2	AV
	H	13090.00	40.5	12.7	68.20	27.7	PK
	H	19635.00	50.3	2.1	68.20	17.9	PK
	V	13090.00	40.9	12.7	68.20	27.3	PK
	V	19635.00	51.3	2.1	68.20	16.9	PK

TEST REPORT

U-NII-7 Band:

802.11n20

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6535.00	90.9	6.2	Fundamental	/	PK
	V	6535.00	77.2	6.2	Fundamental	/	PK
	H	5872.00	48.5	5.3	88.20	39.7	PK
	H	5872.00	41.2	5.3	68.20	27.0	AV
	V	5860.00	49.5	5.2	88.20	38.7	PK
	V	5860.00	42.3	5.2	68.20	25.9	AV
	H	13070.00	40.0	12.7	68.20	28.2	PK
	H	19605.00	50.5	2.1	68.20	17.7	PK
	V	13070.00	39.6	12.7	68.20	28.6	PK
	V	19605.00	51.1	2.1	68.20	17.1	PK
M	H	13390.00	46.3	12.7	68.20	21.9	PK
	H	20085.00	51.4	2.3	68.20	16.8	PK
	V	13390.00	42.5	12.7	68.20	25.7	PK
	V	20085.00	52.0	2.3	68.20	16.2	PK
H	H	6875.00	91.8	6.7	Fundamental	/	PK
	V	6875.00	81.2	6.7	Fundamental	/	PK
	H	7303.00	51.7	7.9	88.20	36.5	PK
	H	7303.00	43.9	7.9	68.20	24.3	AV
	V	7291.00	51.9	7.9	88.20	36.3	PK
	V	7291.00	44.3	7.9	68.20	23.9	AV
	H	13750.00	45.5	12.1	68.20	22.7	PK
	H	20625.00	51.5	2.5	68.20	16.7	PK
	V	13750.00	46.0	12.1	68.20	22.2	PK
	V	20625.00	52.5	2.5	68.20	15.7	PK

TEST REPORT

802.11n40

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6565.00	90.7	6.2	Fundamental	/	PK
	V	6565.00	81.9	6.2	Fundamental	/	PK
	H	7285.00	51.3	7.8	88.20	36.9	PK
	H	7285.00	43.1	7.8	68.20	25.1	AV
	V	7218.00	52.4	7.6	88.20	35.8	PK
	V	7218.00	43.3	7.6	68.20	24.9	AV
	H	13130.00	39.8	12.7	68.20	28.4	PK
	H	19695.00	50.3	2.1	68.20	17.9	PK
	V	13130.00	40.6	12.7	68.20	27.6	PK
	V	19695.00	52.2	2.1	68.20	16	PK
M	H	13370.00	44.9	12.7	68.20	23.3	PK
	H	20055.00	51.2	2.3	68.20	17	PK
	V	13370.00	46.8	12.7	68.20	21.4	PK
	V	20055.00	52.5	2.3	68.20	15.7	PK
H	H	6885.00	88.2	6.7	Fundamental	/	PK
	V	6885.00	79.1	6.7	Fundamental	/	PK
	H	7218.00	51.5	7.6	88.20	36.7	PK
	H	7218.00	43.0	7.6	68.20	25.2	AV
	V	7363.00	51.3	8.1	88.20	36.9	PK
	V	7363.00	43.2	8.1	68.20	25.0	AV
	H	13770.00	43.6	12.1	68.20	24.6	PK
	H	20655.00	50.9	2.5	68.20	17.3	PK
	V	13770.00	44.9	12.1	68.20	23.3	PK
	V	20655.00	51.6	2.5	68.20	16.6	PK

TEST REPORT

802.11ac20

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6535.00	89.8	6.2	Fundamental	/	PK
	V	6535.00	77.1	6.2	Fundamental	/	PK
	H	5884.00	48.4	5.4	88.20	39.8	PK
	H	5884.00	41.2	5.4	68.20	27.0	AV
	V	5721.00	47.7	4.3	88.20	40.5	PK
	V	5721.00	40.8	4.3	68.20	27.4	AV
	H	13070.00	40.3	12.7	68.20	27.9	PK
	H	19605.00	50.2	2.1	68.20	18.0	PK
	V	13070.00	39.8	12.7	68.20	28.4	PK
	V	19605.00	51.5	2.1	68.20	16.7	PK
M	H	13390.00	46.6	12.7	68.20	21.6	PK
	H	20085.00	51.2	2.3	68.20	17.0	PK
	V	13390.00	42.9	12.7	68.20	25.3	PK
	V	20085.00	52.5	2.3	68.20	15.7	PK
H	H	6875.00	99.5	6.7	Fundamental	/	PK
	V	6875.00	95.9	6.7	Fundamental	/	PK
	H	7267.00	52.0	7.8	88.20	36.2	PK
	H	7267.00	43.9	7.8	68.20	24.3	AV
	V	7381.00	51.7	8.2	88.20	36.5	PK
	V	7381.00	43.1	8.2	68.20	25.1	AV
	H	13750.00	45.2	12.1	68.20	23.0	PK
	H	20625.00	51.6	2.5	68.20	16.6	PK
	V	13750.00	46.6	12.1	68.20	21.6	PK
	V	20625.00	52.3	2.5	68.20	15.9	PK

TEST REPORT

802.11ac40

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6565.00	92.0	6.2	Fundamental	/	PK
	V	6565.00	78.6	6.2	Fundamental	/	PK
	H	7279.00	52.2	7.8	88.20	36.0	PK
	H	7279.00	43.2	7.8	68.20	25.0	AV
	V	7273.00	51.5	7.8	88.20	36.7	PK
	V	7273.00	42.1	7.8	68.20	26.1	AV
	H	13130.00	40.0	12.7	68.20	28.2	PK
	H	19695.00	50.9	2.1	68.20	17.3	PK
	V	13130.00	39.8	12.7	68.20	28.4	PK
	V	19695.00	52.0	2.1	68.20	16.2	PK
M	H	13370.00	44.6	12.7	68.20	23.6	PK
	H	20055.00	50.6	2.3	68.20	17.6	PK
	V	13370.00	46.5	12.7	68.20	21.7	PK
	V	20055.00	52.5	2.3	68.20	15.7	PK
H	H	6885.00	87.1	6.7	Fundamental	/	PK
	V	6885.00	77.2	6.7	Fundamental	/	PK
	H	7447.00	52.2	8.4	88.20	36.0	PK
	H	7447.00	43.5	8.4	68.20	24.7	AV
	V	7279.00	51.3	7.8	88.20	36.9	PK
	V	7279.00	42.4	7.8	68.20	25.8	AV
	H	13770.00	44.1	12.1	68.20	24.1	PK
	H	20655.00	51.2	2.5	68.20	17.0	PK
	V	13770.00	45.2	12.1	68.20	23.0	PK
	V	20655.00	52.1	2.5	68.20	16.1	PK

TEST REPORT

802.11ax20

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6535.00	89.2	6.1	Fundamental	/	PK
	V	6535.00	79.6	6.1	Fundamental	/	PK
	H	5.890.00	48.6	5.4	88.20	39.6	PK
	H	5.890.00	42.1	5.4	68.20	26.1	AV
	V	5.842.00	48.1	5.1	88.20	40.1	PK
	V	5.842.00	41.7	5.1	68.20	26.5	AV
	H	13070.00	40.1	12.7	68.20	28.1	PK
	H	19605.00	50.9	2.1	68.20	17.3	PK
	V	13070.00	39.4	12.7	68.20	28.8	PK
	V	19605.00	51.2	2.1	68.20	17.0	PK
M	H	13390.00	46.5	12.7	68.20	21.7	PK
	H	20085.00	51.0	2.3	68.20	17.2	PK
	V	13390.00	42.7	12.7	68.20	25.5	PK
	V	20085.00	52.2	2.3	68.20	16.0	PK
H	H	6875.00	99.5	6.7	Fundamental	/	PK
	V	6875.00	95.5	6.7	Fundamental	/	PK
	H	7.321.00	51.7	8.0	88.20	36.5	PK
	H	7.321.00	42.3	8.0	68.20	25.9	AV
	V	7.417.00	52.8	8.3	88.20	35.4	PK
	V	7.417.00	43.2	8.3	68.20	25.0	AV
	H	13750.00	45.8	12.1	68.20	22.4	PK
	H	20625.00	51.9	2.5	68.20	16.3	PK
	V	13750.00	46.3	12.1	68.20	21.9	PK
	V	20625.00	52.7	2.5	68.20	15.5	PK

TEST REPORT

802.11ax40

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6565.00	91.0	6.2	Fundamental	/	PK
	V	6565.00	82.0	6.2	Fundamental	/	PK
	H	7447.00	52.4	8.4	88.20	35.8	PK
	H	7447.00	43.1	8.4	68.20	25.1	AV
	V	7399.00	52.2	8.2	88.20	36.0	PK
	V	7399.00	42.8	8.2	68.20	25.4	AV
	H	13130.00	39.6	12.7	68.20	28.6	PK
	H	19695.00	50.7	2.1	68.20	17.5	PK
	V	13130.00	39.7	12.7	68.20	28.5	PK
	V	19695.00	51.7	2.1	68.20	16.5	PK
M	H	13370.00	44.4	12.7	68.20	23.8	PK
	H	20055.00	50.8	2.3	68.20	17.4	PK
	V	13370.00	46.2	12.7	68.20	22.0	PK
	V	20055.00	52.1	2.3	68.20	16.1	PK
H	H	6885.00	87.5	6.7	Fundamental	/	PK
	V	6885.00	80.2	6.7	Fundamental	/	PK
	H	7297.00	51.9	7.9	88.20	36.3	PK
	H	7297.00	42.9	7.9	68.20	25.3	AV
	V	7279.00	51.8	7.8	88.20	36.4	PK
	V	7279.00	42.5	7.8	68.20	25.7	AV
	H	13770.00	43.4	12.1	68.20	24.8	PK
	H	20655.00	50.7	2.5	68.20	17.5	PK
	V	13770.00	44.7	12.1	68.20	23.5	PK
	V	20655.00	51.9	2.5	68.20	16.3	PK

TEST REPORT

802.11ac80

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6625.00	83.1	6.3	Fundamental	/	PK
	V	6625.00	72.8	6.3	Fundamental	/	PK
	H	7325.00	54.5	7.9	88.20	33.7	PK
	H	7325.00	45.5	7.9	68.20	22.7	AV
	V	7250.00	53.7	7.8	88.20	34.5	PK
	V	7250.00	43.6	7.8	68.20	24.6	AV
	H	13250.00	41.8	12.7	68.20	26.4	PK
	H	19875.00	49.5	2.1	68.20	18.7	PK
	V	13250.00	40.7	12.7	68.20	27.5	PK
	V	19875.00	51.1	2.1	68.20	17.1	PK
M	H	13410.00	47.6	12.6	68.20	20.6	PK
	H	20115.00	51.2	2.3	68.20	17.0	PK
	V	13410.00	46.8	12.7	68.20	21.4	PK
	V	20115.00	51.9	2.3	68.20	16.3	PK
H	H	6865.00	85.1	6.7	Fundamental	/	PK
	V	6865.00	73.7	6.7	Fundamental	/	PK
	H	7250.00	54.0	7.7	88.20	34.2	PK
	H	7250.00	44.6	7.7	68.20	23.6	AV
	V	7395.00	53.8	8.2	88.20	34.4	PK
	V	7395.00	43.1	8.2	68.20	25.1	AV
	H	13730.00	46.5	12.2	68.20	21.7	PK
	H	20595.00	50.4	2.5	68.20	17.8	PK
	V	13730.00	38.9	12.2	68.20	29.3	PK
	V	20595.00	51.4	2.5	68.20	16.8	PK

TEST REPORT

802.11ax80

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6625.00	84.3	6.3	Fundamental	/	PK
	V	6625.00	73.9	6.3	Fundamental	/	PK
	H	7303.00	53.5	7.9	88.20	34.7	PK
	H	7303.00	43.8	7.9	68.20	24.4	AV
	V	7285.00	51.7	7.8	88.20	36.5	PK
	V	7285.00	42.6	7.8	68.20	25.6	AV
	H	13250.00	41.6	12.7	68.20	26.6	PK
	H	19875.00	49.8	2.1	68.20	18.4	PK
	V	13250.00	40.1	12.7	68.20	28.1	PK
	V	19875.00	50.7	2.1	68.20	17.5	PK
M	H	13410.00	47.3	12.6	68.20	20.9	PK
	H	20115.00	50.9	2.3	68.20	17.3	PK
	V	13410.00	45.9	12.7	68.20	22.3	PK
	V	20115.00	51.4	2.3	68.20	16.8	PK
H	H	6865.00	86.4	6.7	Fundamental	/	PK
	V	6865.00	76.3	6.7	Fundamental	/	PK
	H	7249.00	52.0	7.7	88.20	36.2	PK
	H	7249.00	42.4	7.7	68.20	25.8	AV
	V	7387.00	52.0	8.2	88.20	36.2	PK
	V	7387.00	42.7	8.2	68.20	25.5	AV
	H	13730.00	46.7	12.2	68.20	21.5	PK
	H	20595.00	50.8	2.5	68.20	17.4	PK
	V	13730.00	38.6	12.2	68.20	29.6	PK
	V	20595.00	51.7	2.5	68.20	16.5	PK

TEST REPORT

U-NII-8 Band:

802.11n20

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6895.00	89.5	6.8	Fundamental	/	PK
	V	6895.00	77.6	6.8	Fundamental	/	PK
	H	7405.00	52.2	8.2	88.20	36.0	PK
	H	7405.00	42.7	8.2	68.20	25.5	AV
	V	7156.00	52.8	7.4	88.20	35.4	PK
	V	7156.00	43.1	7.4	68.20	25.1	AV
	H	13790.00	40.5	13.0	68.20	27.7	PK
	H	20685.00	50.5	2.5	68.20	17.7	PK
	V	13790.00	41.3	13.0	68.20	26.9	PK
	V	20685.00	51.3	2.5	68.20	16.9	PK
M	H	13990.00	40.2	13.7	68.20	28.0	PK
	H	20985.00	51.0	3.8	68.20	17.2	PK
	V	13990.00	41.6	13.7	68.20	26.6	PK
	V	20985.00	52.2	3.8	68.20	16.0	PK
H	H	7115.00	86.2	7.3	Fundamental	/	PK
	V	7115.00	78.5	7.3	Fundamental	/	PK
	H	7132.00	74.1	7.4	88.20	14.1	PK
	H	7132.00	66.9	7.4	68.20	1.3	AV
	V	7301.00	51.7	7.9	88.20	36.5	PK
	V	7301.00	42.9	7.9	68.20	25.3	AV
	H	14230.00	41.2	12.3	68.20	27	PK
	H	21345.00	51.6	4.2	68.20	16.6	PK
	V	14230.00	42.5	12.3	68.20	25.7	PK
	V	21345.00	52.3	4.2	68.20	15.9	PK

TEST REPORT

802.11n40

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6925.00	87.3	6.8	Fundamental	/	PK
	V	6925.00	80.1	6.8	Fundamental	/	PK
	H	7269.00	53.5	7.8	88.20	34.7	PK
	H	7269.00	44.1	7.8	68.20	24.1	AV
	V	7277.00	52.4	7.8	88.20	35.8	PK
	V	7277.00	43.4	7.8	68.20	24.8	AV
	H	13850.00	38.1	12.0	68.20	30.1	PK
	H	20775.00	50.3	2.5	68.20	17.9	PK
	V	13850.00	39.2	12.0	68.20	29.0	PK
	V	20775.00	51.4	2.5	68.20	16.8	PK
M	H	14010.00	37.1	11.7	68.20	31.1	PK
	H	21015.00	51.5	3.8	68.20	16.7	PK
	V	14010.00	37.9	11.7	68.20	30.3	PK
	V	21015.00	52.3	3.8	68.20	34.7	PK
H	H	7085.00	89.2	7.2	Fundamental	/	PK
	V	7085.00	81.7	7.2	Fundamental	/	PK
	H	7132.00	54.9	7.4	88.20	33.3	PK
	H	7132.00	53.8	7.4	68.20	14.4	AV
	V	7269.00	51.6	7.8	88.20	36.6	PK
	V	7269.00	42.9	7.8	68.20	25.3	AV
	H	14170.00	37.6	12.2	68.20	30.6	PK
	H	21255.00	52.2	4.2	68.20	16.0	PK
	V	14170.00	38.1	12.2	68.20	30.1	PK
	V	21255.00	52.9	4.2	68.20	15.3	PK

TEST REPORT

802.11ac20

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6895.00	89.6	6.8	Fundamental	/	PK
	V	6895.00	81.2	6.8	Fundamental	/	PK
	H	7301.00	52.4	7.9	88.20	35.8	PK
	H	7301.00	41.8	7.9	68.20	26.4	AV
	V	7277.00	51.6	7.8	88.20	36.6	PK
	V	7277.00	41.2	7.8	68.20	27.0	AV
	H	13790.00	40.4	13.0	68.20	27.8	PK
	H	20685.00	51.2	2.5	68.20	17.0	PK
	V	13790.00	41.4	13.0	68.20	26.8	PK
	V	20685.00	51.5	2.5	68.20	16.7	PK
M	H	13990.00	40.3	13.7	68.20	27.9	PK
	H	20985.00	51.8	3.8	68.20	16.4	PK
	V	13990.00	41.7	13.7	68.20	26.5	PK
	V	20985.00	52.2	3.8	68.20	16.0	PK
H	H	7115.00	88.7	7.3	Fundamental	/	PK
	V	7115.00	79.1	7.3	Fundamental	/	PK
	H	7132.00	73.3	7.4	88.20	14.9	PK
	H	7132.00	66.3	7.4	68.20	1.9	AV
	V	7132.00	62.0	7.4	88.20	26.2	PK
	V	7132.00	53.5	7.4	68.20	14.7	AV
	H	14230.00	41.8	12.3	68.20	26.4	PK
	H	21345.00	51.5	4.2	68.20	16.7	PK
	V	14230.00	42.0	12.3	68.20	26.2	PK
	V	21345.00	52.2	4.2	68.20	16.0	PK

802.11ac40

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6925.00	91.7	6.8	Fundamental	/	PK
	V	6925.00	79.3	6.8	Fundamental	/	PK
	H	7245.00	51.8	7.7	88.20	36.4	PK
	H	7245.00	44.1	7.7	68.20	24.1	AV
	V	7413.00	52.3	8.3	88.20	35.9	PK
	V	7413.00	43.7	8.3	68.20	24.5	AV
	H	13850.00	38.8	12.0	68.20	29.4	PK
	H	20775.00	51.6	2.5	68.20	16.6	PK
	V	13850.00	39.3	12.0	68.20	28.9	PK
	V	20775.00	52.0	2.5	68.20	16.2	PK
M	H	14010.00	37.6	11.7	68.20	30.6	PK
	H	21015.00	51.5	3.8	68.20	16.7	PK
	V	14010.00	38.2	11.7	68.20	30.0	PK
	V	21015.00	52.8	3.8	68.20	15.4	PK
H	H	7085.00	92.0	7.2	Fundamental	/	PK
	V	7085.00	81.8	7.2	Fundamental	/	PK
	H	7164.00	55.4	7.5	88.20	32.8	PK
	H	7164.00	44.8	7.5	68.20	23.4	AV
	V	7589.00	53.0	8.7	88.20	35.2	PK
	V	7589.00	44.1	8.7	68.20	24.1	AV
	H	14170.00	37.3	12.2	68.20	30.9	PK
	H	21255.00	52.0	4.2	68.20	16.2	PK
	V	14170.00	37.3	12.2	68.20	30.9	PK
	V	21255.00	52.4	4.2	68.20	15.8	PK

TEST REPORT

802.11ax20

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6895.00	82.2	6.8	Fundamental	/	PK
	V	6895.00	78.8	6.8	Fundamental	/	PK
	H	7277.00	52.4	7.8	88.20	35.8	PK
	H	7277.00	41.9	7.8	68.20	26.3	AV
	V	7301.00	51.6	7.9	88.20	36.6	PK
	V	7301.00	40.8	7.9	68.20	27.4	AV
	H	13790.00	40.7	13.0	68.20	27.5	PK
	H	20685.00	51.0	2.5	68.20	17.2	PK
	V	13790.00	41.8	13.0	68.20	26.4	PK
	V	20685.00	51.7	2.5	68.20	16.5	PK
M	H	13990.00	40.5	13.7	68.20	27.7	PK
	H	20985.00	51.6	3.8	68.20	16.6	PK
	V	13990.00	41.8	13.7	68.20	26.4	PK
	V	20985.00	52.0	3.8	68.20	16.2	PK
H	H	7115.00	88.7	7.3	Fundamental	/	PK
	V	7115.00	79.2	7.3	Fundamental	/	PK
	H	7132.00	75.7	7.4	88.20	12.5	PK
	H	7132.00	67.5	7.4	68.20	0.7	AV
	V	7126.00	65.5	7.3	88.20	22.7	PK
	V	7126.00	59.6	7.3	68.20	8.6	AV
	H	14230.00	41.6	12.3	68.20	26.6	PK
	H	21345.00	51.9	4.2	68.20	16.3	PK
	V	14230.00	42.1	12.3	68.20	26.1	PK
	V	21345.00	52.5	4.2	68.20	15.7	PK

TEST REPORT

802.11ax40

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6925.00	92.6	6.8	Fundamental	/	PK
	V	6925.00	80.2	6.8	Fundamental	/	PK
	H	7268.00	52.6	7.7	88.20	35.6	PK
	H	7268.00	41.5	7.7	68.20	26.7	AV
	V	7420.00	53.8	8.3	88.20	34.4	PK
	V	7420.00	42.8	8.3	68.20	25.4	AV
	H	13850.00	38.4	12.0	68.20	29.8	PK
	H	20775.00	50.9	2.5	68.20	17.3	PK
	V	13850.00	39.0	12.0	68.20	29.2	PK
	V	20775.00	51.7	2.5	68.20	16.5	PK
M	H	14010.00	37.3	11.7	68.20	30.9	PK
	H	21015.00	51.9	3.8	68.20	16.3	PK
	V	14010.00	37.6	11.7	68.20	30.6	PK
	V	21015.00	52.5	3.8	68.20	15.7	PK
H	H	7085.00	92.9	7.2	Fundamental	/	PK
	V	7085.00	80.2	7.2	Fundamental	/	PK
	H	7125.00	56.4	7.5	88.20	31.8	PK
	H	7125.00	45.9	7.5	68.20	22.3	AV
	V	7650.00	53.9	8.7	88.20	34.3	PK
	V	7650.00	42.8	8.7	68.20	25.4	AV
	H	14170.00	37.4	12.2	68.20	30.8	PK
	H	21255.00	52.1	4.2	68.20	16.1	PK
	V	14170.00	37.8	12.2	68.20	30.4	PK
	V	21255.00	52.8	4.2	68.20	15.4	PK

TEST REPORT

802.11ac80

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6945.00	86.1	6.9	Fundamental	/	PK
	V	6945.00	78.2	6.9	Fundamental	/	PK
	H	7581.00	52.5	8.7	88.20	35.7	PK
	H	7581.00	43.6	8.7	68.20	24.6	AV
	V	7918.00	53.5	9.2	88.20	34.7	PK
	V	7918.00	44.2	9.2	68.20	24.0	AV
	H	13890.00	39.5	11.9	68.20	28.7	PK
	H	20835.00	50.4	2.5	68.20	17.8	PK
	V	13890.00	38.5	11.9	68.20	29.7	PK
	V	20835.00	51.0	2.5	68.20	17.2	PK
H	H	7025.00	85.2	7.1	Fundamental	/	PK
	V	7025.00	75.6	7.1	Fundamental	/	PK
	H	7589.00	53.0	8.7	88.20	35.2	PK
	H	7589.00	42.8	8.7	68.20	25.4	AV
	V	7541.00	52.4	8.6	88.20	35.8	PK
	V	7541.00	42.2	8.6	68.20	26	AV
	H	14050.00	37.6	11.8	68.20	30.6	PK
	H	21075.00	51.5	4.2	68.20	16.7	PK
	V	14050.00	38.0	11.8	68.20	30.2	PK
	V	21075.00	52.1	4.2	68.20	16.1	PK

TEST REPORT

802.11ax80

Channel	Polarity	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	6945.00	88.3	6.9	Fundamental	/	PK
	V	6945.00	74.8	6.9	Fundamental	/	PK
	H	7405.00	52.6	8.2	88.20	35.6	PK
	H	7405.00	41.7	8.2	68.20	26.5	AV
	V	7397.00	51.9	8.2	88.20	36.3	PK
	V	7397.00	41.0	8.2	68.20	27.2	AV
	H	13890.00	39.8	11.9	68.20	28.4	PK
	H	20835.00	50.8	2.5	68.20	17.4	PK
	V	13890.00	38.8	11.9	68.20	29.4	PK
	V	20835.00	51.2	2.5	68.20	17.0	PK
H	H	7025.00	84.6	7.1	Fundamental	/	PK
	V	7025.00	76.9	7.1	Fundamental	/	PK
	H	7581.00	52.8	8.7	88.20	35.4	PK
	H	7581.00	41.0	8.7	68.20	27.2	AV
	V	7397.00	51.7	8.2	88.20	36.5	PK
	V	7397.00	40.6	8.2	68.20	27.6	AV
	H	14050.00	37.9	11.8	68.20	30.3	PK
	H	21075.00	51.9	4.2	68.20	16.3	PK
	V	14050.00	38.1	11.8	68.20	30.1	PK
	V	21075.00	52.4	4.2	68.20	15.8	PK

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,
Limit = 40.00dBuV/m.
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m;
Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;
Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB

TEST REPORT

9 Power line conducted emission

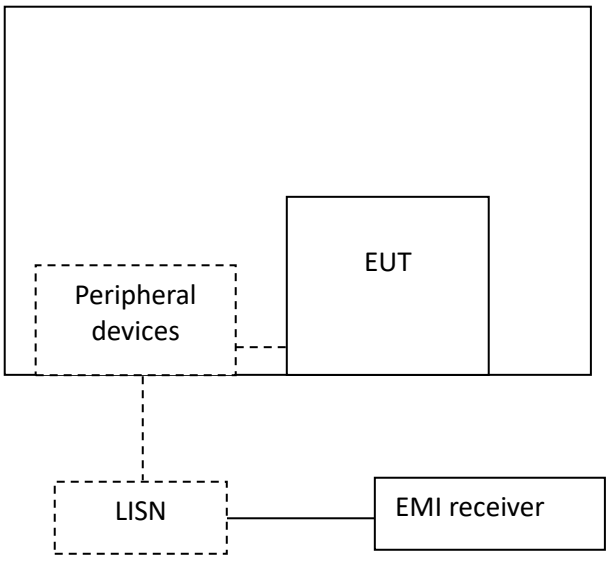
Test result: **Pass**

9.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	QP	AV
0.15-0.5	66 to 56*	56 to 46 *
0.5-5	56	46
5-30	60	50
* Decreases with the logarithm of the frequency.		

9.2 Test Configuration

9.3



9.4 Measurement Procedure

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

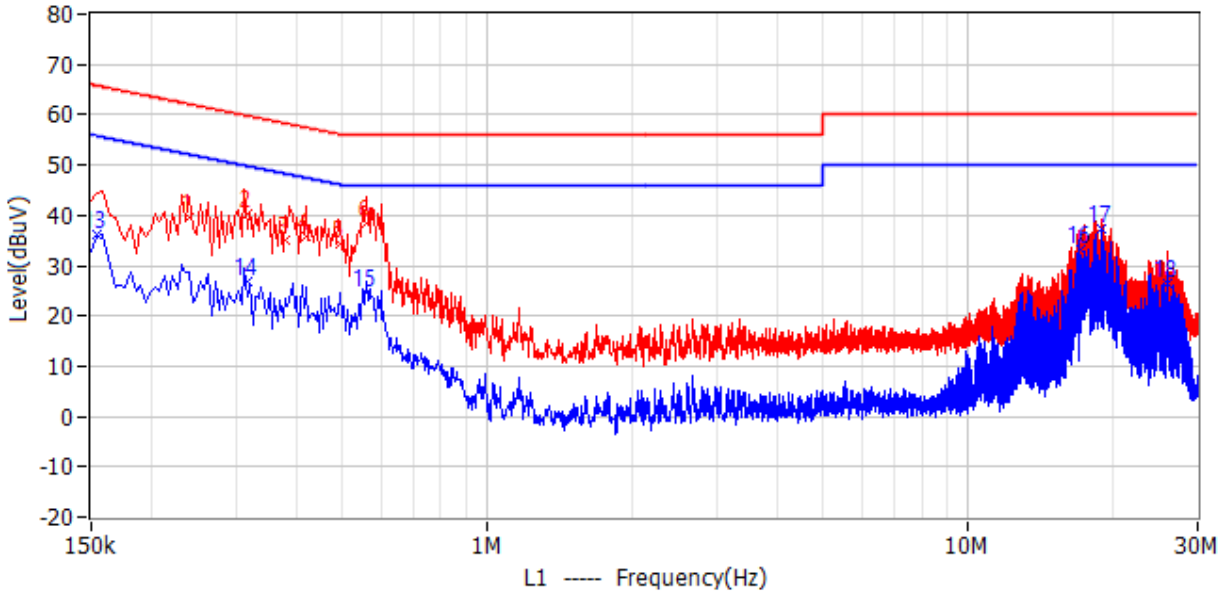
The bandwidth of the test receiver is set at 9 kHz.

TEST REPORT

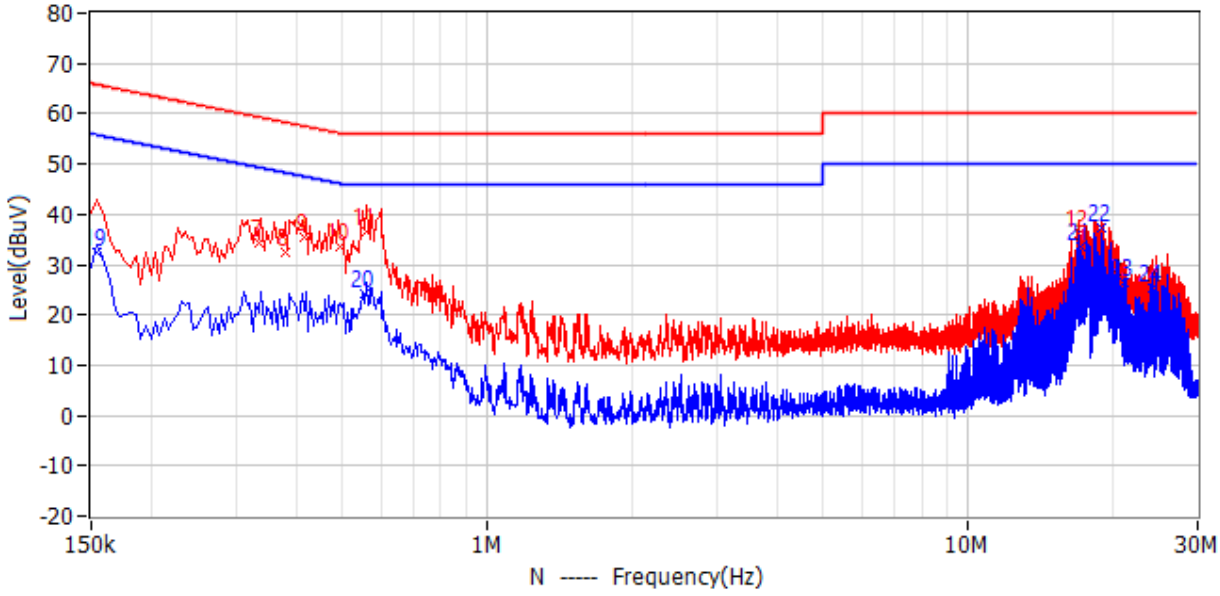
9.5 Test Results of Power line conducted emission

Test Voltage: 120V/60Hz

L line



N line



TEST REPORT

Test Data:

No.	Frequency	Limit dBuV	Level dBuV	Margin dB	Reading dBuV	Factor dB	Detector	Phase
1	240.000kHz	62.1	39.4	22.7	29.1	10.3	QP	L1
2	316.500kHz	59.8	40.4	19.4	30.1	10.3	QP	L1
3	379.500kHz	58.3	34.9	23.4	24.6	10.3	QP	L1
4	420.000kHz	57.4	35.7	21.8	25.4	10.3	QP	L1
5	492.000kHz	56.1	34.3	21.8	24.0	10.3	QP	L1
6	559.500kHz	56.0	38.4	17.6	28.0	10.4	QP	L1
7	334.500kHz	59.3	34.2	25.1	23.9	10.3	QP	N
8	379.500kHz	58.3	32.6	25.7	22.3	10.3	QP	N
9	415.500kHz	57.5	35.3	22.2	25.0	10.3	QP	N
10	492.000kHz	56.1	33.5	22.7	23.2	10.3	QP	N
11	559.500kHz	56.0	36.4	19.6	26.0	10.4	QP	N
12	16.998MHz	60.0	36.2	23.8	25.2	11.0	QP	N
13	154.500kHz	55.8	36.0	19.7	25.6	10.4	AV	L1
14	316.500kHz	49.8	26.8	23.0	16.5	10.3	AV	L1
15	559.500kHz	46.0	24.5	21.5	14.1	10.4	AV	L1
16	17.088MHz	50.0	33.3	16.7	22.2	11.1	AV	L1
17	19.001MHz	50.0	37.2	12.8	25.9	11.3	AV	L1
18	25.863MHz	50.0	26.6	23.4	14.9	11.7	AV	L1
19	154.500kHz	55.8	32.6	23.1	22.2	10.4	AV	N
20	555.000kHz	46.0	24.2	21.8	13.8	10.4	AV	N
21	17.138MHz	50.0	33.6	16.4	22.6	11.0	AV	N
22	19.001MHz	50.0	37.2	12.8	26.0	11.2	AV	N
23	21.048MHz	50.0	26.4	23.6	15.0	11.4	AV	N
24	24.050MHz	50.0	25.3	24.7	13.6	11.7	AV	N

Remark: 1. Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.
2. Level = Reading + Factor
3. Margin = Limit - Level
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

10 Frequency Stability

Test result: **Pass**

10.1 Limit

The frequency stability shall be sufficient to ensure that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

10.2 Test Result

Frequency Error - Temperature Variation

Supply Voltage DC (V)	Temperature (°C)	Frequency Deviation (ppm)
		Channel (5985MHz)
3.3	-20	-13.018714
	-10	-12.529366
	0	0.000000
	10	12.529366
	20	-13.018714
	30	-12.374323
	40	-12.075472
	50	-11.790715

Frequency Error - Voltage Variation

Supply Voltage DC (V)	Temperature (°C)	Frequency Deviation (ppm)
		Channel (5985MHz)
2.97	20	-11.519078
3.3		0.000000
3.63		-12.955466

11 Antenna requirement

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 shall be considered sufficient to comply with the provisions of this section.

Result:
EUT use of a permanently attached antenna, so it can comply with the provisions of this section.

********** END **********