TEST REPORT

Applicant Name :	Xunison Inc
Address :	11720 Amber Park Dr.Suite 160 Atlanta, GA 30009 United States
Report Number :	RA221215-61881E-RF-00C
FCC ID:	2BAT3D50H

Test Standard (s)

FCC PART 15.407

Sample Description

Product Type:	Xunison Hub
Model No.:	D50 Home
Multiple Model(s) No.:	N/A
Trade Mark:	XUNISON
Date Received:	2022/12/15
Report Date:	2023/05/10

Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Nick Fang

EMC Engineer

Approved By:

Candy Li

EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	RA221215-61881E-RF-00C	Original Report	2023/05/10

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	5G Wi-Fi: 5150~5250MHz ; 5250-5350MHz ;5470-5725MHz ; 5725~5850 MHz
Device Type	Master Device
Mode	802.11a/n20/n40/ac20/ac40/ac80/ac160/ax20/ax40/ax80/ax160
Maximum Conducted Average Output Power	5150-5250MHz: 18.40dBm 5250-5350MHz: 20.34dBm 5470-5725MHz: 20.48dBm 5725-5850MHz: 19.90dBm
Modulation Technique	OFDM, OFDMA
Antenna Specification*	ANT 0: 5.0dBi, ANT 1: 5.0dBi, ANT 2: 5.0dBi, ANT 3:5.0dBi (It is provided by the applicant)
Voltage Range	DC12V from adapter
TPC Function*	Support
Beam-forming*	Not Support
Sample serial number	1ZF5 for Conducted and Radiated Emissions Test 1ZF4 for RF conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter 1 Information	Model: AS2406A-1202000DM Input: AC 100-240V, 50/60Hz, 0.8A MAX Output: DC 12.0V, 2.0A, 24.0W
Adapter 2 Information	Model: AS2406A-1202000US Input: AC 100-240V, 50/60Hz, 0.8A MAX Output: DC 12.0V, 2000mA
Adapter 3 Information	Model: RD1202000-C55-154MG Input: AC 100-240V, 50/60Hz, 1.0A MAX Output: DC 12.0V, 2.0A

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033 D02 General U-NII Test Procedures New Rules v02r01.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5%
RF Frequency		$0.082*10^{-7}$
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Power Lines Conducted Emissions		2.72dB
Emissions, Radiated	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
Temperature		1℃
Humidity		6%
Supply voltages		0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

Test Site 1:
The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

Test Site 2:
The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

For 5150-5350MHz Band, 15 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260
38	5190	54	5270
40	5200	56	5280
42	5210	58	5290
44	5220	60	5300
46	5230	62	5310
48	5240	64	5320
50	5250	/	/

For 802.11a/n20/ac20/ax20 mode: channel 36, 40, 48 were tested for 5150-5250MHz band, channel 52, 56, 64 were tested for 5250-5350MHz band;
For 802.11n40/ac40/ax40 mode: channel 38, 46 were tested for 5150-5250MHz band, channel 54, 62 were tested for 5250-5350MHz band;
For 802.11ac80/ax80 mode: channel 42 was tested for 5150-5250MHz band, channel 58 was tested for 5250-5350MHz band;
For 802.11ac160/ax160 mode: channel 50 was tested

For 5470-5725MHz Band, 19 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	120	5600
102	5510	122	5610
104	5520	124	5620
106	5530	126	5630
108	5540	128	5640
110	5550	132	5660
112	5560	134	5670
114	5570	136	5680
116	5580	140	5700
118	5590	/	/

For 802.11a, 802.11n20/ac20/ax20 mode: channel 100, 116, 140 were tested;
For 802.11n40/ac40/ax40 mode: channel 102, 110, 134 were tested.
For 802.11ac80/ax80 mode, channel 106, 122 were tested.
For 802.11ac160/ax160 mode, channel 114 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a/n20/ac20/ax20 mode: channel 149, 157, 165 were tested;
For 802.11n40/ac40/ax40 mode: channel 151, 159 were tested;
For 802.11ac80/ax80 mode, channel 155 was tested

EUT Exercise Software

"QPST ; RU : Hawkeye-OFDMA-ReferenceOnly_LP_forCustomer.exe *" exercise software was used. The software and power level was provided by the applicant.

The worst case was performed under:

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level*		
					Low Channel	Middle Channel	High Channel
5150 – 5250MHz	802.11a	6 Mbps	NA	NA	5	5	5
	802.11n20	MCS0	NA	NA	8	8	8
	802.11n40	MCS0	NA	NA	8	/	8
	802.11ac20	MCS0	NA	NA	8	8	8
	802.11ac40	MCS0	NA	NA	8	/	8
	802.11ac80	MCS0	NA	NA	/	8	/
	11AX20	MCS0	26Tone	RU0	3	3	3
			52Tone	RU37	6	6	6
			106Tone	RU53	9	9	9
			242Tone	RU61	8	8	8
	11AX40	MCS0	26Tone	RU0	0	/	0
			52Tone	RU37	3	/	3
			106Tone	RU53	6	/	6
			242Tone	RU61	9	/	9
			484Tone	RU65	8	/	8
	11AX80	MCS0	26Tone	RU0	/	-4	/
			52Tone	RU37	/	-1	/
			106Tone	RU53	/	2	/
			242Tone	RU61	/	5	/
			484Tone	RU65	/	8	/
			996Tone	RU67	/	8	/

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level*		
					Low Channel	Middle Channel	High Channel
5250 – 5350MHz	802.11a	6 Mbps	NA	NA	10	10	10
	802.11n20	MCS0	NA	NA	10	10	10
	802.11n40	MCS0	NA	NA	10	/	10
	802.11ac20	MCS0	NA	NA	10	10	10
	802.11ac40	MCS0	NA	NA	10	/	10
	802.11ac80	MCS0	NA	NA	/	10	/
	11AX20	MCS0	26Tone	RU0	3	3	3
			52Tone	RU37	6	6	6
			106Tone	RU53	9	9	9
			242Tone	RU61	10	10	10
	11AX40	MCS0	26Tone	RU0	0	/	0
			52Tone	RU37	3	/	3
			106Tone	RU53	6	/	6
			242Tone	RU61	9	/	9
			484Tone	RU65	10	/	10
	11AX80	MCS0	26Tone	RU0	/	-4	/
			52Tone	RU37	/	-1	/
			106Tone	RU53	/	2	/
			242Tone	RU61	/	5	/
			484Tone	RU65	/	8	/
			996Tone	RU67	/	10	/

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level*		
					Low Channel	Middle Channel	High Channel
5250MHz	11AC160	MCS0	NA	NA	/	10	/
	11AX160	MCS0	26Tone	RU0	/	-7	/
			52Tone	RU37	/	-4	/
			106Tone	RU53	/	-1	/
			242Tone	RU61	/	2	/
			484Tone	RU65	/	5	/
			996Tone	RU67	/	8	/
			2*996Tone	RU68	/	10	/

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level*		
					Low Channel	Middle Channel	High Channel
5470-5725MHz	802.11a	6 Mbps	NA	NA	10	10	10
	802.11n20	MCS0	NA	NA	10	10	10
	802.11n40	MCS0	NA	NA	10	10	10
	802.11ac20	MCS0	NA	NA	10	10	10
	802.11ac40	MCS0	NA	NA	10	10	10
	802.11ac80	MCS0	NA	NA	10	/	10
	802.11ac160	MCS0	NA	NA	/	10	/
	11AX20	MCS0	26Tone	RU0	3	3	3
			52Tone	RU37	6	6	6
			106Tone	RU53	9	9	9
			242Tone	RU61	10	10	10
	11AX40	MCS0	26Tone	RU0	0	0	0
			52Tone	RU37	3	3	3
			106Tone	RU53	6	6	6
			242Tone	RU61	9	9	9
			484Tone	RU65	10	10	10
	11AX80	MCS0	26Tone	RU0	-4	/	-4
			52Tone	RU37	-1	/	-1
			106Tone	RU53	2	/	2
			242Tone	RU61	5	/	5
			484Tone	RU65	8	/	8
			996Tone	RU67	10	/	10
	11AX160	MCS0	26Tone	RU0	/	-7	/
			52Tone	RU37	/	-4	/
			106Tone	RU53	/	-1	/
			242Tone	RU61	/	2	/
			484Tone	RU65	/	5	/
			996Tone	RU67	/	8	/
			2*996Tone	RU68	/	10	/

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level		
					Low Channel	Middle Channel	High Channel
5725-5850MHz	802.11a	6 Mbps	NA	NA	10	10	10
	802.11n20	MCS0	NA	NA	10	10	10
	802.11n40	MCS0	NA	NA	10	/	10
	802.11ac20	MCS0	NA	NA	10	10	10
	802.11ac40	MCS0	NA	NA	10	/	10
	802.11ac80	MCS0	NA	NA	/	10	/
	11AX20	MCS0	26Tone	RU0	3	3	3
			52Tone	RU37	6	6	6
			106Tone	RU53	9	9	9
			242Tone	RU61	10	10	10
	11AX40	MCS0	26Tone	RU0	0	/	0
			52Tone	RU37	3	/	3
			106Tone	RU53	6	/	6
			242Tone	RU61	9	/	9
			484Tone	RU65	10	/	10
	11AX80	MCS0	26Tone	RU0	/	-4	/
			52Tone	RU37	/	-1	/
			106Tone	RU53	/	2	/
			242Tone	RU61	/	5	/
			484Tone	RU65	/	8	/
			996Tone	RU67	/	10	/

EUT support SISO/MIMO for all modes, according to pre-scan, the worst case MIMO was test and recorded in report.

The worst-case data rates are determined to be as follows for each mode based upon inverstigation by measuring the average power, peak power and PSD across all data rates, bandwidths and modulations.

All the antenna ports have the same power level.

For 802.11AX mode, output power was test in difference RU mode, other items only test the worst case full RU mode.

Duty cycle

Test Result: Pass. Please refer to the Appendix D.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

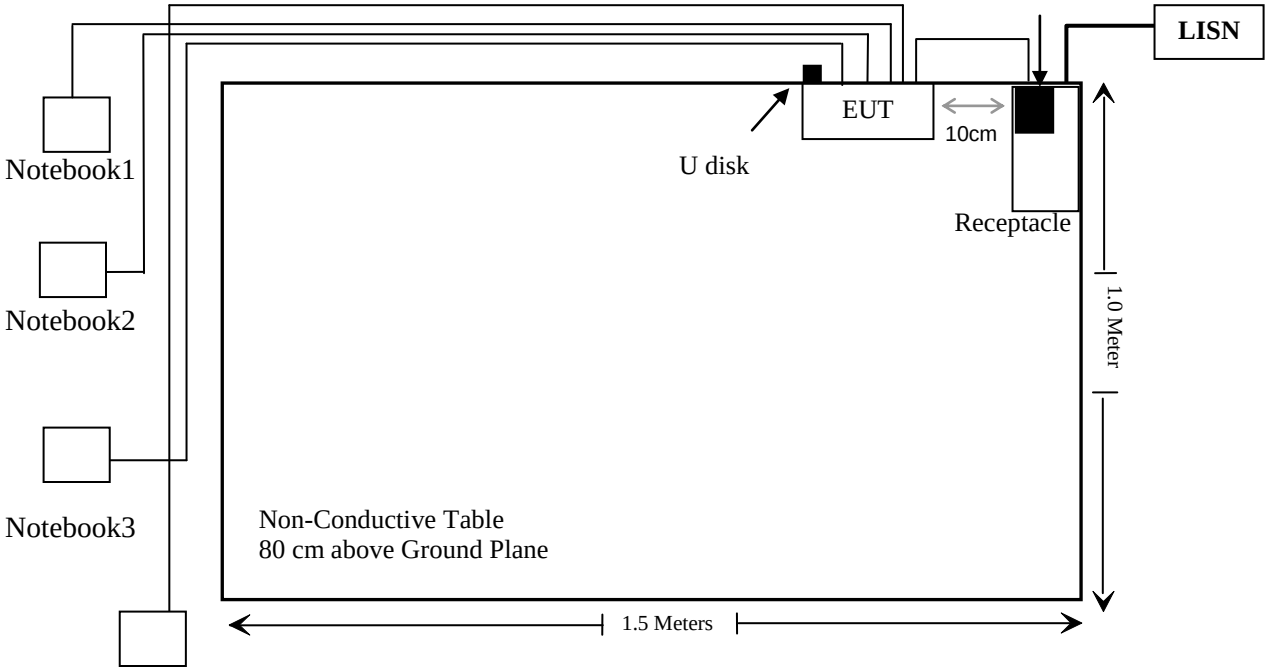
Manufacturer	Description	Model	Serial Number
DELL	Note Book1	Latitude E4710	PC201911252059
DELL	Note Book2	Latitude E4710	PC201911252060
DELL	Note Book3	Latitude E4710	PC201911252061
HUAWEI	Router	WS5100	A4933FEF1D01
Kingston	U-disk	DTKN	100008447371

External I/O Cable

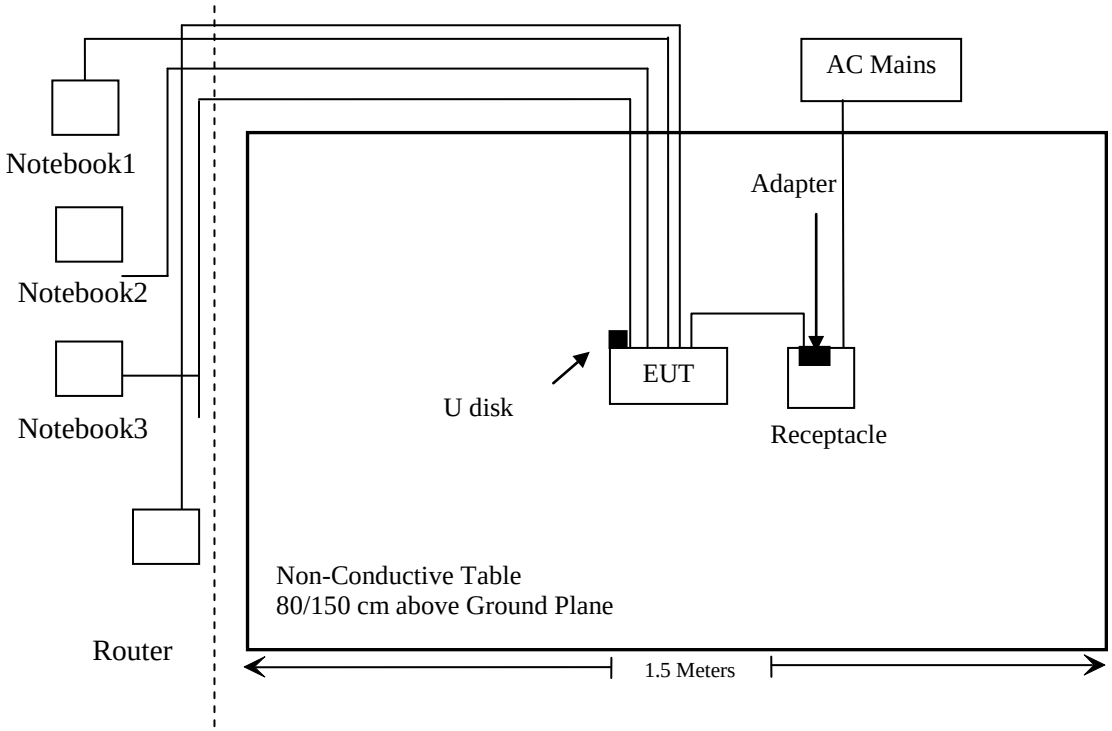
Cable Description	Length (m)	From Port	To
Un-shielded detachable RJ45 cable	8.0	EUT	NoteBook1
Un-shielded detachable RJ45 cable	8.0	EUT	NoteBook2
Un-shielded detachable RJ45 cable	8.0	EUT	NoteBook3
Un-shielded detachable RJ45 cable	8.0	EUT	Router
Unshielded Un-detachable DC cable	1.8	Adapter	EUT

Block Diagram of Test Setup

For conducted emission;



For Radiated Emissions:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §1.1307 (b) (3) & §2.1091	MPE-BASED EXEMPTION	Compliant
§15.203	Antenna Requirement	Compliant
§15.407(b)(9)& §15.207(a)	Conducted Emissions	Compliant
§15.205& §15.209 & §15.407(b)	Undesirable Emission& Restricted Bands	Compliant
§15.407(a) (e)	26 dB Emission Bandwidth & 6dB Bandwidth	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407 (a)	Power Spectral Density	Compliant
§15.407 (h)	Dynamic Frequency Selection (DFS)	Compliant*

Compliant*: Please refer to the report: RA221215-61881E-RF-00D

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2022/11/25	2023/11/24
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2022/11/25	2023/11/24
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2022/12/07	2023/12/06
Unknown	RF Coaxial Cable	No.17	N0350	2022/11/25	2023/11/24
Conducted Emission Test Software: e3 19821b (V9)					
Radiated Emissions Test					
Rohde& Schwarz	Test Receiver	ESR	102725	2022/11/25	2023/11/24
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2022/11/25	2023/11/24
SONOMA INSTRUMENT	Amplifier	310 N	186131	2022/11/08	2023/11/07
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2022/11/08	2023/11/07
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2022/11/30	2025/11/29
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2022/12/26	2025/12/25
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.11	N1000	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.12	N040	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.13	N300	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.14	N800	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.15	N600	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.16	N650	2022/11/25	2023/11/24
RF Conducted Test					
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101495	2022/11/25	2023/11/24
Tonscend	RF Control Unit	JS0806-2	19G8060182	2022/10/24	2023/10/23
WEINSCHEL	10dB Attenuator	5324	AU 3842	2022/11/25	2023/11/24
Agilent	USB wideband power sensor	U2021XA	MY54250003	2022/06/27	2023/06/26
Unknown	RF Coaxial Cable	No.31	RF-01	Each time	Each time

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations hAve.e been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307 (B) (3) & §2.1091- MPE-BASED EXEMPTION

Applicable Standard

According to subpart 1.1307 (b) (3) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] to support an exemptionfrom further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R^2.
1.34-30	3,450 R^2/f^2.
30-300	3.83 R^2.
300-1,500	0.0128 R^2f.
1,500-100,000	19.2R^2.

Ris the minimum separation distance in meters
f = frequency in MHz

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

Result

Mode	Frequency (MHz)	Tune up conducted power	Antenna Gain		ERP		Evaluation Distance (m)	ERP Limit (W)
		(dBm)	(dBi)	(dBd)	(dBm)	(W)		
ZigBee	2405-2480	17.0	5	2.85	19.85	0.097	0.2	0.768
2.4G Wi-Fi	2412-2462	18.0	5	2.85	20.85	0.122	0.2	0.768
5G Wi-Fi	5150-5250	19.0	5	2.85	21.85	0.153	0.2	0.768
	5250-5350	21.0	5	2.85	23.85	0.243	0.2	0.768
	5470-5725	21.0	5	2.85	23.85	0.243	0.2	0.768
	5725-5850	20.0	5	2.85	22.85	0.193	0.2	0.768

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.
2. The ZigBee, 2.4G Wi-Fi and 5G Wi-Fi can Simultaneous transmitting
3. 0dBd=2.15dBi

Simultaneous transmitting consideration (worst case):

The ratio=ERP_{Zigbee}/limit+$ERP_{2.4G\ Wi\text{-}Fi}$/limit+$ERP_{5G\ Wi\text{-}Fi}$/limit
=0.097/0.768+0.122 /0.768+0.243/0.768=0.602＜1.0, so simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

1) Antenna must be permanently attached to the unit.
2) Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has four integral antennas arrangement for Wi-Fi which were permanently attached to the EUT, fulfill the requirement of this section. Please refer to the EUT photos.

ANT	Antenna type	Antenna Gain (dBi)	Impedance	Frequency range (GHz)
0	FPC	5.0	50Ω	5.15-5.85
1	FPC	5.0	50Ω	5.15-5.85
2	FPC	5.0	50Ω	5.15-5.85
3	FPC	5.0	50Ω	5.15-5.85

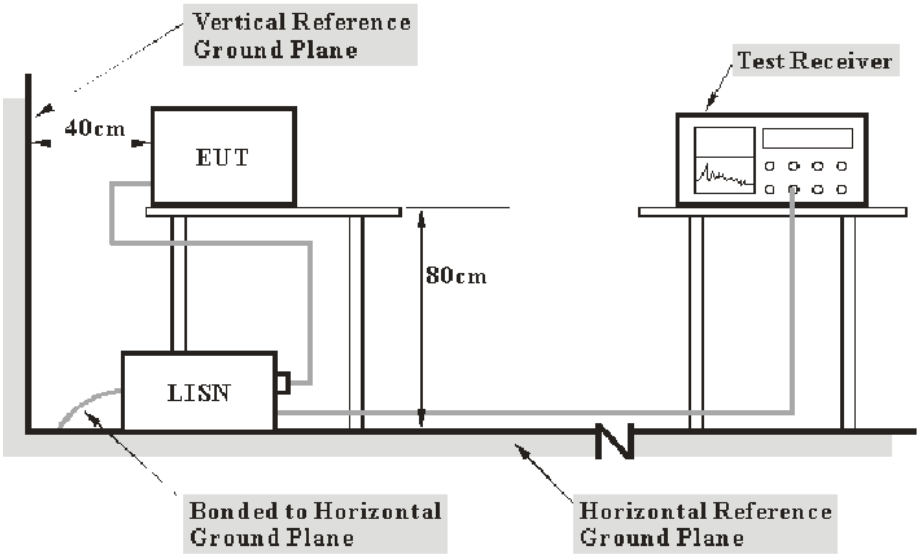
Result: Compliant.

FCC §15.407 (b) (6) §15.207 (a) – CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207, §15.407(b) (6)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and Average detection mode.

Corrected Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Transd Factor = LISN VDF + Cable Loss

The "**Over limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit
Level = Read Level + Factor

Test Data

Environmental Conditions

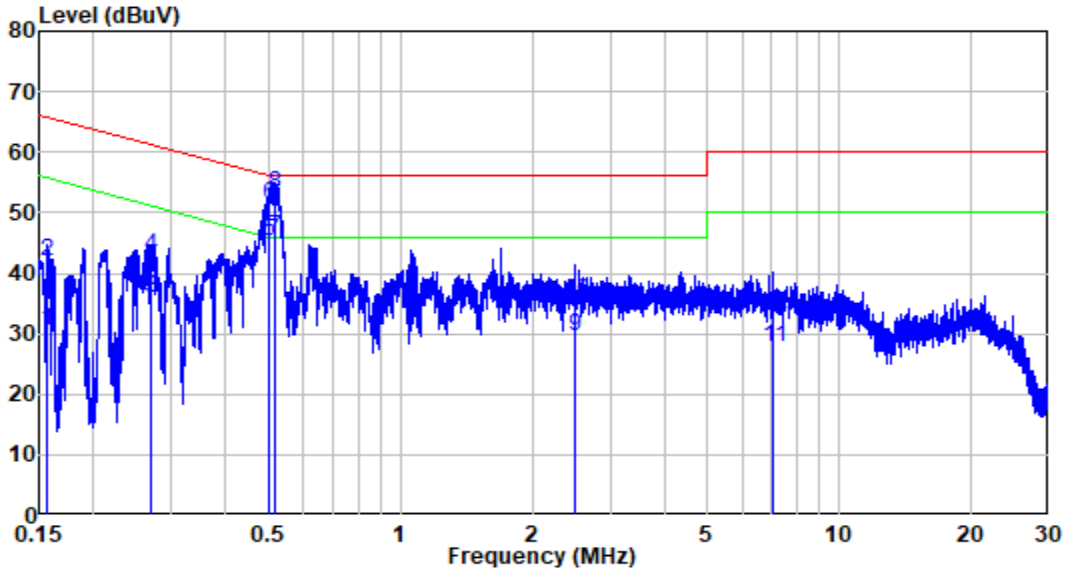
Temperature:	23 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Lipa Wu on 2023-02-04 and 2023-03-14.

EUT operation mode: Transmitting (worst case is 802.11a, 5200MHz)

For Adapter 1

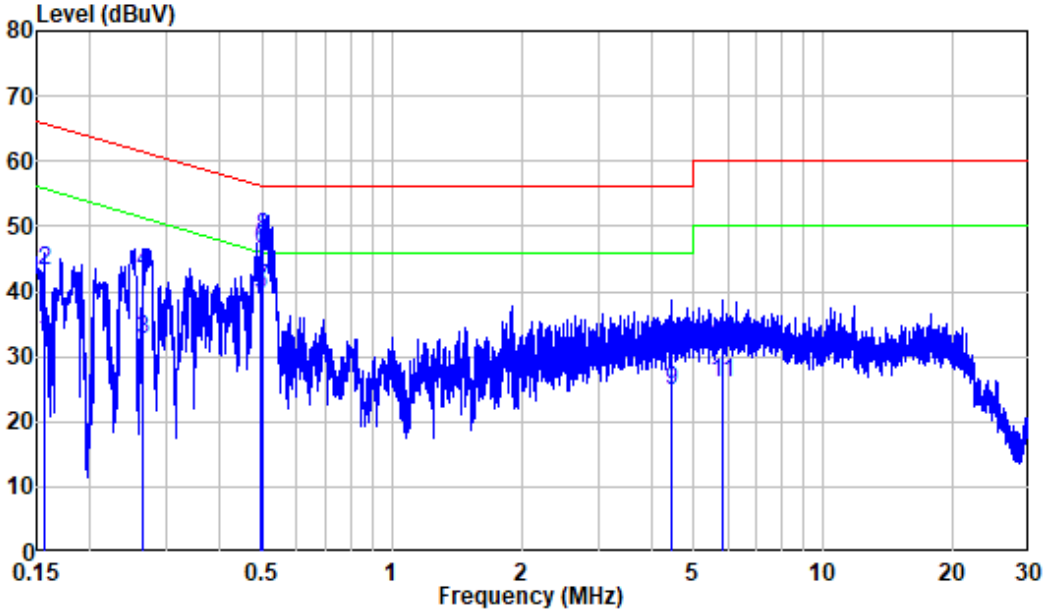
AC 120V/60 Hz, Line



Site : Shielding Room
Condition: Line
Job No. : RA221215-61881E-RF
Mode : 5G WIFi&Transmitting
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.156	9.90	20.69	30.59	55.65	-25.06	Average
2	0.156	9.90	32.17	42.07	65.65	-23.58	QP
3	0.271	9.87	26.19	36.06	51.09	-15.03	Average
4	0.271	9.87	33.09	42.96	61.09	-18.13	QP
5	0.499	9.80	35.46	45.26	46.02	-0.76	Average
6	0.499	9.80	41.58	51.38	56.02	-4.64	QP
7	0.516	9.82	36.00	45.82	46.00	-0.18	Average
8	0.516	9.82	43.38	53.20	56.00	-2.80	QP
9	2.503	9.92	19.64	29.56	46.00	-16.44	Average
10	2.503	9.92	25.40	35.32	56.00	-20.68	QP
11	7.081	9.97	17.85	27.82	50.00	-22.18	Average
12	7.081	9.97	23.24	33.21	60.00	-26.79	QP

AC 120V/60 Hz, Neutral

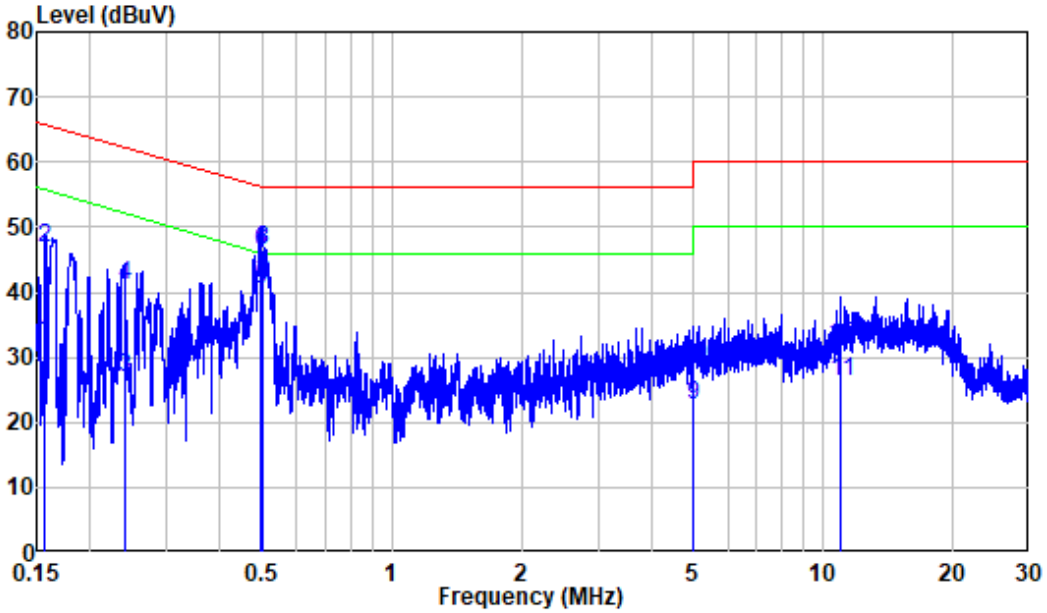


Site : Shielding Room
Condition: Neutral
Job No. : RA221215-61881E-RF
Mode : 5G WIFi&Transmitting
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.156	9.80	22.48	32.28	55.66	-23.38	Average
2	0.156	9.80	33.39	43.19	65.66	-22.47	QP
3	0.265	9.83	22.64	32.47	51.27	-18.80	Average
4	0.265	9.83	33.13	42.96	61.27	-18.31	QP
5	0.495	9.90	29.80	39.70	46.08	-6.38	Average
6	0.495	9.90	36.55	46.45	56.08	-9.63	QP
7	0.503	9.90	30.57	40.47	46.00	-5.53	Average
8	0.503	9.90	38.47	48.37	56.00	-7.63	QP
9	4.454	9.88	14.76	24.64	46.00	-21.36	Average
10	4.454	9.88	21.47	31.35	56.00	-24.65	QP
11	5.844	10.00	16.02	26.02	50.00	-23.98	Average
12	5.844	10.00	21.57	31.57	60.00	-28.43	QP

For Adapter 2

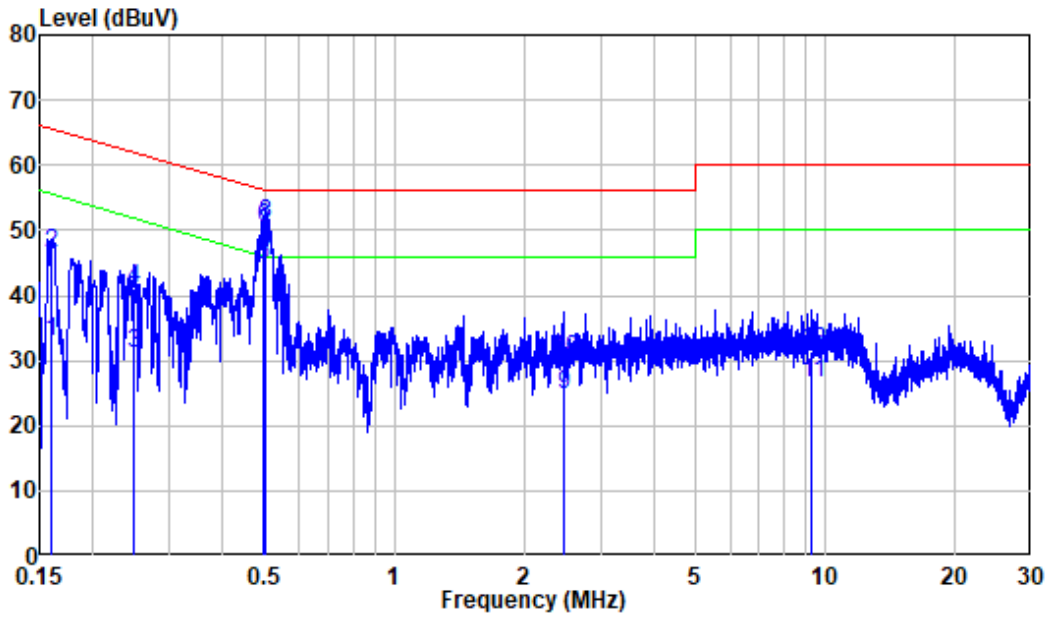
AC 120V/60 Hz, Line



Site : Shielding Room
Condition: Line
Job No. : RA221215-61881E-RF
Mode : 5G WIFI (AS2406A-1202000US)
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.157	10.10	22.35	32.45	55.62	-23.17	Average
2	0.157	10.10	36.75	46.85	65.62	-18.77	QP
3	0.240	10.10	16.66	26.76	52.11	-25.35	Average
4	0.240	10.10	30.89	40.99	62.11	-21.12	QP
5	0.497	10.10	30.29	40.39	46.05	-5.66	Average
6	0.497	10.10	36.05	46.15	56.05	-9.90	QP
7	0.501	10.10	30.85	40.95	46.00	-5.05	Average
8	0.501	10.10	36.41	46.51	56.00	-9.49	QP
9	5.001	10.83	11.80	22.63	50.00	-27.37	Average
10	5.001	10.83	17.84	28.67	60.00	-31.33	QP
11	10.985	12.75	13.40	26.15	50.00	-23.85	Average
12	10.985	12.75	18.95	31.70	60.00	-28.30	QP

AC 120V/60 Hz, Neutral

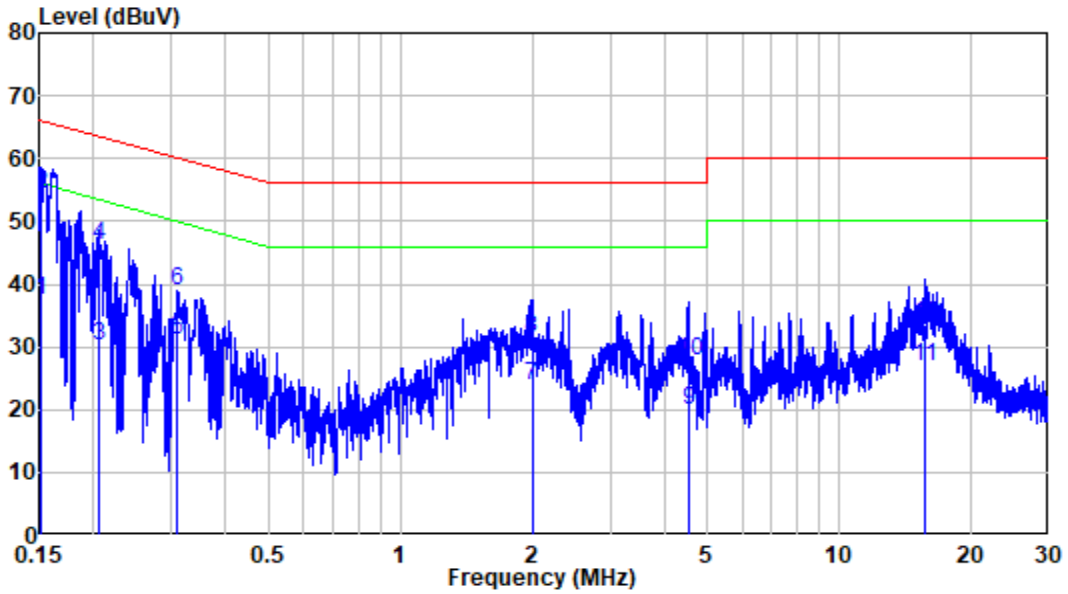


Site : Shielding Room
Condition: Neutral
Job No. : RA221215-61881E-RF
Mode : 5G WIFI (AS2406A-1202000US)
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.160	10.30	22.50	32.80	55.44	-22.64	Average
2	0.160	10.30	36.09	46.39	65.44	-19.05	QP
3	0.248	10.32	20.86	31.18	51.81	-20.63	Average
4	0.248	10.32	30.60	40.92	61.81	-20.89	QP
5	0.496	10.40	34.16	44.56	46.07	-1.51	Average
6	0.496	10.40	40.02	50.42	56.07	-5.65	QP
7	0.502	10.39	34.46	44.85	46.00	-1.15	Average
8	0.502	10.39	40.65	51.04	56.00	-4.96	QP
9	2.467	10.11	14.58	24.69	46.00	-21.31	Average
10	2.467	10.11	20.17	30.28	56.00	-25.72	QP
11	9.309	11.99	14.61	26.60	50.00	-23.40	Average
12	9.309	11.99	19.29	31.28	60.00	-28.72	QP

For Adapter 3

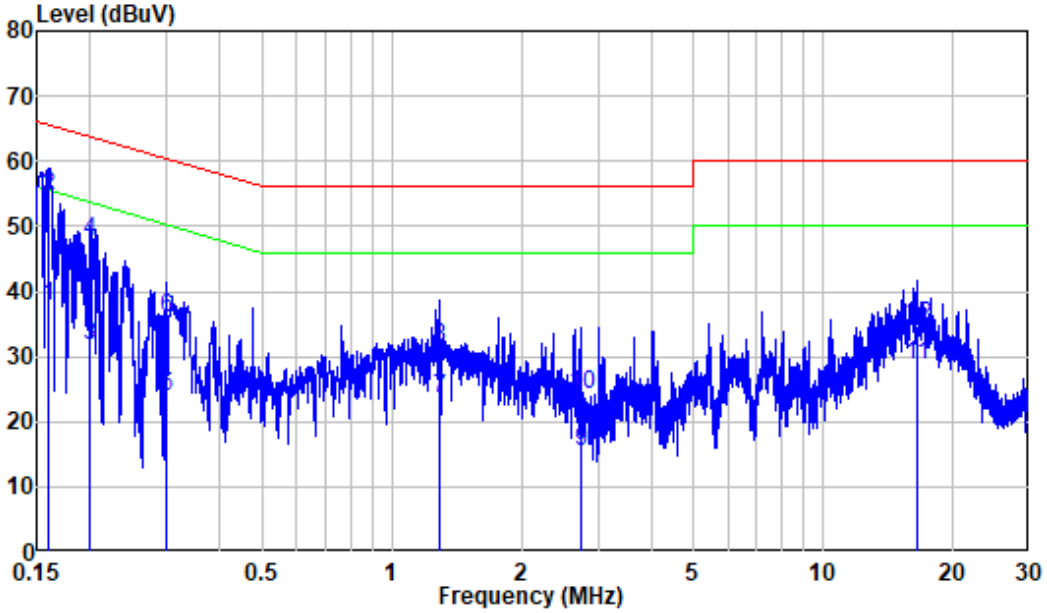
AC 120V/60 Hz, Line



Site : Shielding Room
Condition: Line
Job No. : RA221215-61881E-RF
Mode : 5G WIFI (RD1202000-C55-154MG)
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.152	10.10	27.27	37.37	55.91	-18.54	Average
2	0.152	10.10	44.14	54.24	65.91	-11.67	QP
3	0.205	10.10	20.15	30.25	53.42	-23.17	Average
4	0.205	10.10	36.19	46.29	63.42	-17.13	QP
5	0.311	10.10	20.95	31.05	49.95	-18.90	Average
6	0.311	10.10	28.84	38.94	59.95	-21.01	QP
7	1.992	10.32	13.44	23.76	46.00	-22.24	Average
8	1.992	10.32	21.05	31.37	56.00	-24.63	QP
9	4.543	10.71	9.24	19.95	46.00	-26.05	Average
10	4.543	10.71	17.00	27.71	56.00	-28.29	QP
11	15.645	14.41	12.52	26.93	50.00	-23.07	Average
12	15.645	14.41	19.11	33.52	60.00	-26.48	QP

AC 120V/60 Hz, Neutral



Site : Shielding Room
Condition: Neutral
Job No. : RA221215-61881E-RF
Mode : 5G WIFI (RD1202000-C55-154MG)
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.160	10.30	27.53	37.83	55.47	-17.64	Average
2	0.160	10.30	44.30	54.60	65.47	-10.87	QP
3	0.200	10.30	21.39	31.69	53.61	-21.92	Average
4	0.200	10.30	37.34	47.64	63.61	-15.97	QP
5	0.301	10.34	13.38	23.72	50.21	-26.49	Average
6	0.301	10.34	25.48	35.82	60.21	-24.39	QP
7	1.283	9.95	13.52	23.47	46.00	-22.53	Average
8	1.283	9.95	21.49	31.44	56.00	-24.56	QP
9	2.732	10.16	5.33	15.49	46.00	-30.51	Average
10	2.732	10.16	14.13	24.29	56.00	-31.71	QP
11	16.518	14.61	14.14	28.75	50.00	-21.25	Average
12	16.518	14.61	19.97	34.58	60.00	-25.42	QP

§15.205 & §15.209 & §15.407(B)– UNDESIRABLE EMISSION

Applicable Standard

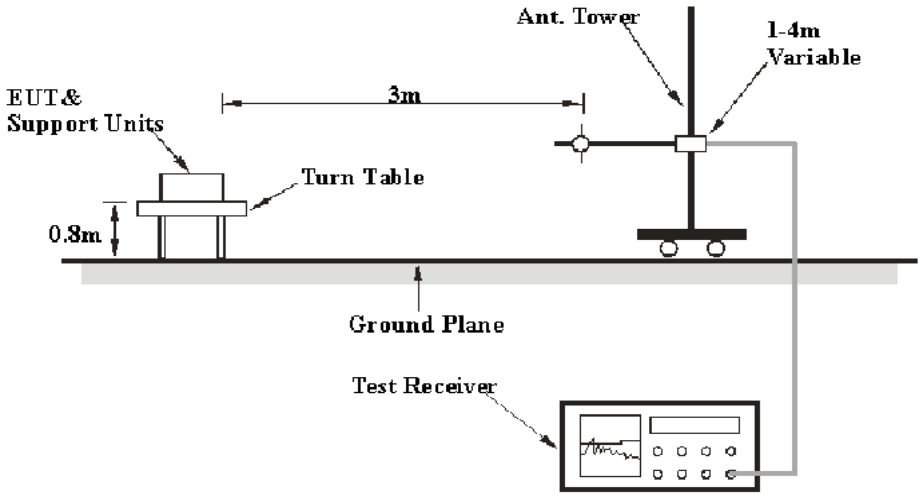
FCC §15.407 (b); §15.209; §15.205;

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(4) For transmitters operating in the 5.725-5.85 GHz band:
(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
(4) For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:
(ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of −5 dBm/MHz and shall decrease linearly to an e.i.r.p. of −27 dBm/MHz at or above 5.925 GHz.
(iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of −27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

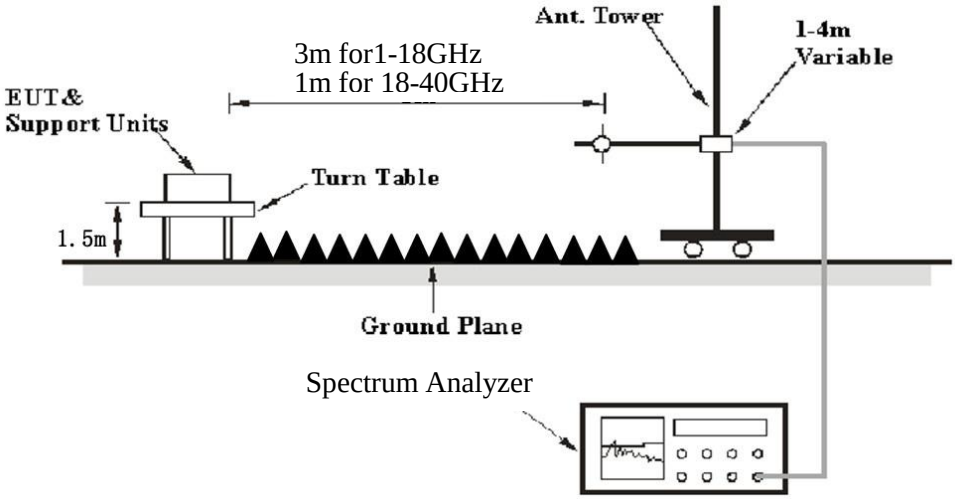
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

Below 1 GHz:



Above 1 GHz:



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	1MHz	10 Hz Note 1	/	Average
	1MHz	＞1/T Note 2	/	Average

Note 1: when duty cycle is no less than 98%
Note 2: when duty cycle is less than 98%

Test Procedure

Radiated Spurious Emission

During the radiated emission test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1GHz.

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\mathrm{SpecLimit}} = E_{\mathrm{Meas}} + 20\log\left(\frac{d_{\mathrm{Meas}}}{d_{\mathrm{SpecLimit}}}\right)$$

where

$E_{\mathrm{SpecLimit}}$	is the field strength of the emission at the distance specified by the limit, in dBμV/m
E_{Meas}	is the field strength of the emission at the measurement distance, in dBμV/m
d_{Meas}	is the measurement distance, in m
$d_{\mathrm{SpecLimit}}$	is the distance specified by the limit, in m

So the extrapolation factor of 1m is 20*log(1/3)= -9.5 dB, for 18-40GHz range, the limit of 1m distance was added by 9.5dB from limit of 3m to compared with the result measurement at 1m distance.

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit
Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	24~24.5 ℃
Relative Humidity:	50~56 %
ATM Pressure:	101.0 kPa

The testing was performed by Jimi Zheng on 2023-02-02 and 2023-03-14 for below 1GHz and on 2023-02-14 for above 1GHz.

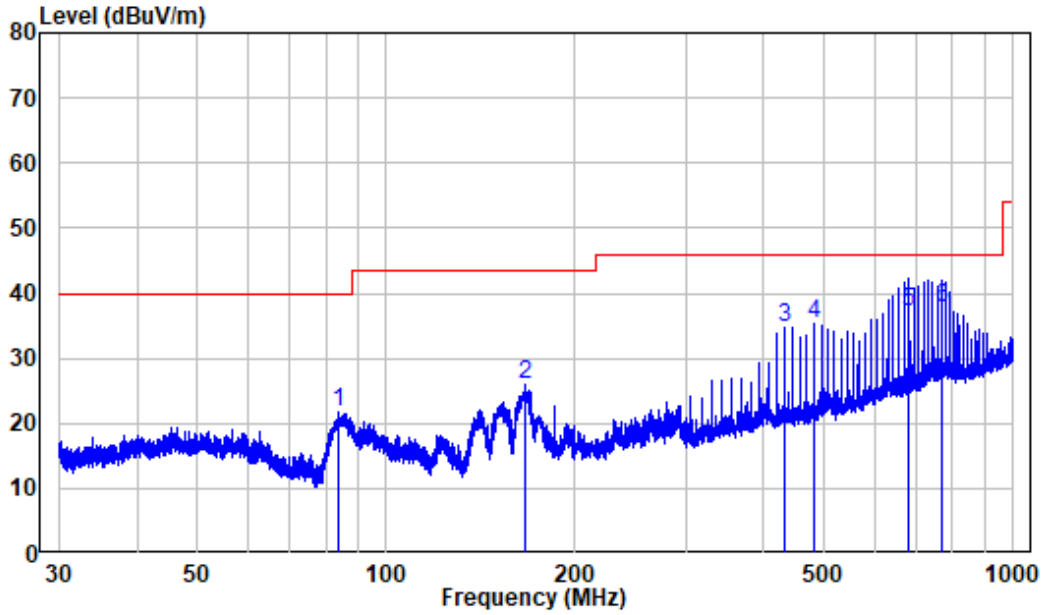
EUT operation mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case X-axes of orientation was recorded)

30 MHz – 1 GHz: *(worst case is 802.11a, 5200MHz)*

Note: When the result of Peak less than the limit of QP by more than 6dB, just the peak value was recorded.

For Adapter 1

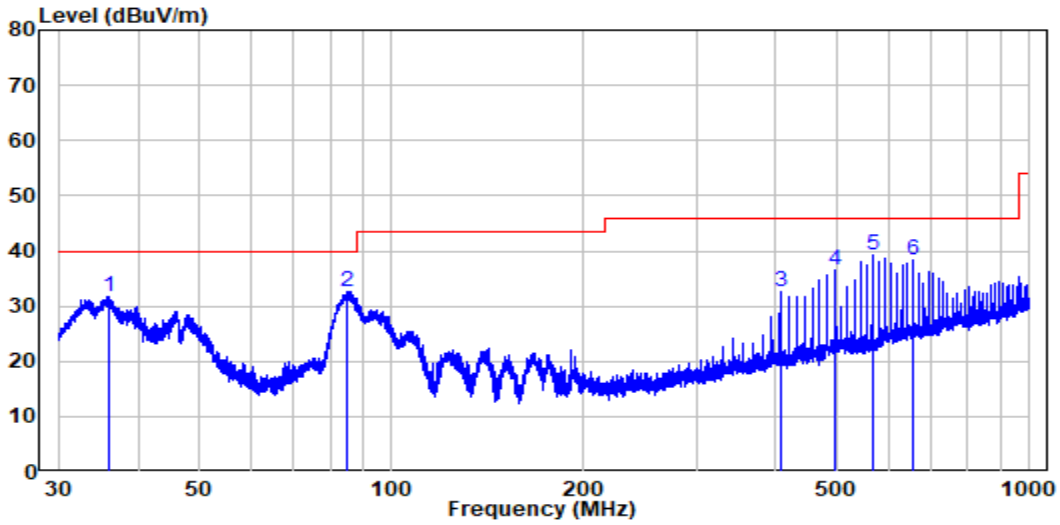
Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : RA221215-61881E-RF
Test Mode: 5G WIFI Transmitting

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	84.073	-16.01	37.83	21.82	40.00	-18.18	Peak
2	166.871	-13.89	39.77	25.88	43.50	-17.62	Peak
3	431.221	-5.76	40.34	34.58	46.00	-11.42	Peak
4	481.371	-4.96	40.26	35.30	46.00	-10.70	Peak
5	681.452	-1.51	38.71	37.20	46.00	-8.80	QP
6	769.085	-0.23	37.90	37.67	46.00	-8.33	QP

Vertical

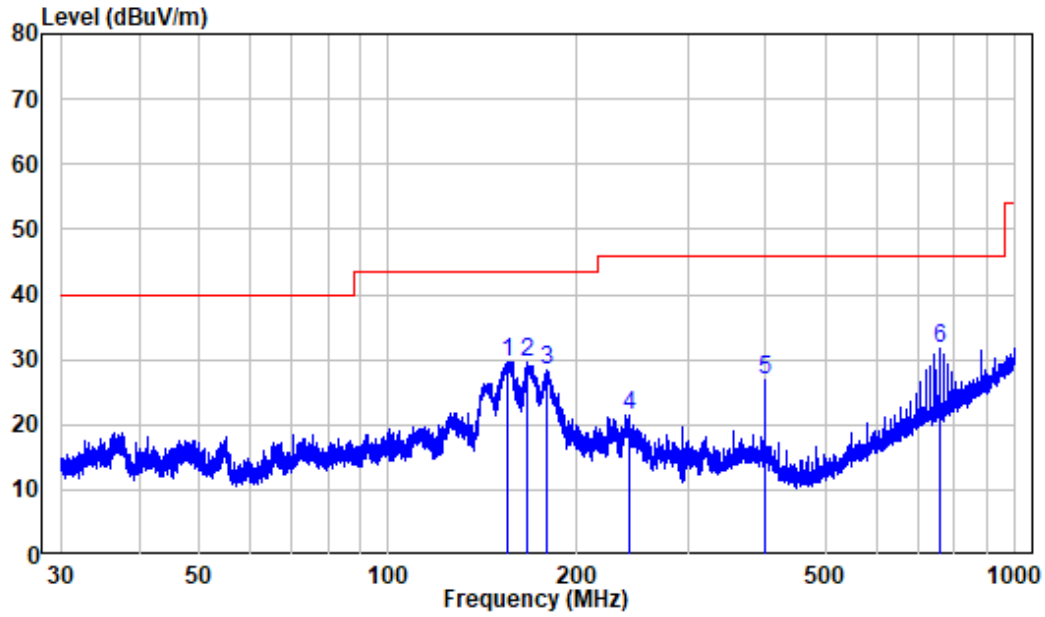


Site : chamber
Condition: 3m VERTICAL
Job No. : RA221215-61881E-RF
Test Mode: 5G WIFI Transmitting

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	35.953	-11.21	42.92	31.71	40.00	-8.29	Peak
2	84.999	-15.63	48.31	32.68	40.00	-7.32	Peak
3	406.266	-6.63	39.20	32.57	46.00	-13.43	Peak
4	493.765	-4.52	41.07	36.55	46.00	-9.45	Peak
5	568.862	-3.86	43.00	39.14	46.00	-6.86	Peak
6	656.530	-1.60	40.04	38.44	46.00	-7.56	Peak

For Adapter 2

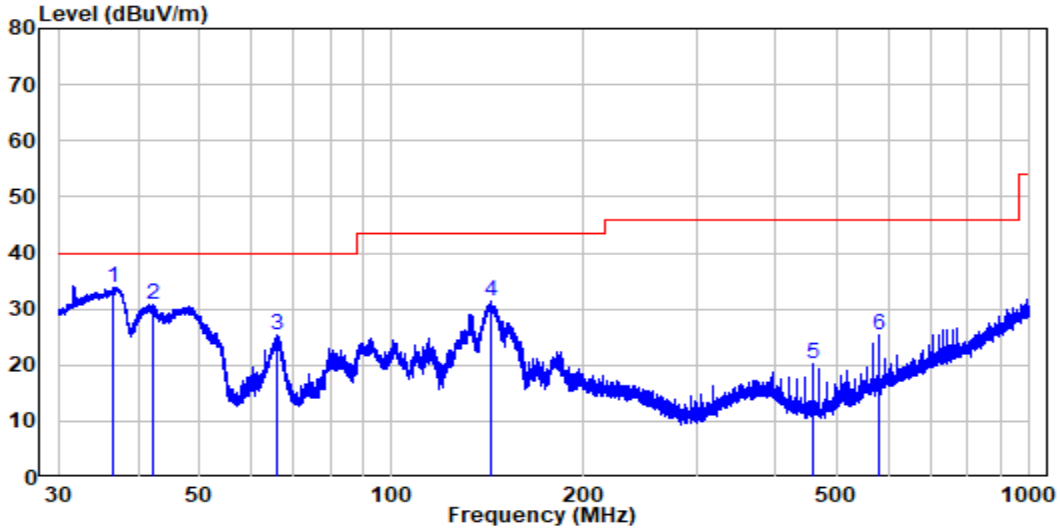
Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : RA221215-61881E-RF
Test Mode: 5G WIFI
Adapter : AS2406A-1202000US

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	154.414	-10.33	39.94	29.61	43.50	-13.89	Peak
2	166.432	-10.28	39.83	29.55	43.50	-13.95	Peak
3	178.994	-10.37	38.61	28.24	43.50	-15.26	Peak
4	242.419	-12.05	33.51	21.46	46.00	-24.54	Peak
5	400.081	-12.24	39.24	27.00	46.00	-19.00	Peak
6	756.381	-5.42	37.19	31.77	46.00	-14.23	Peak

Vertical

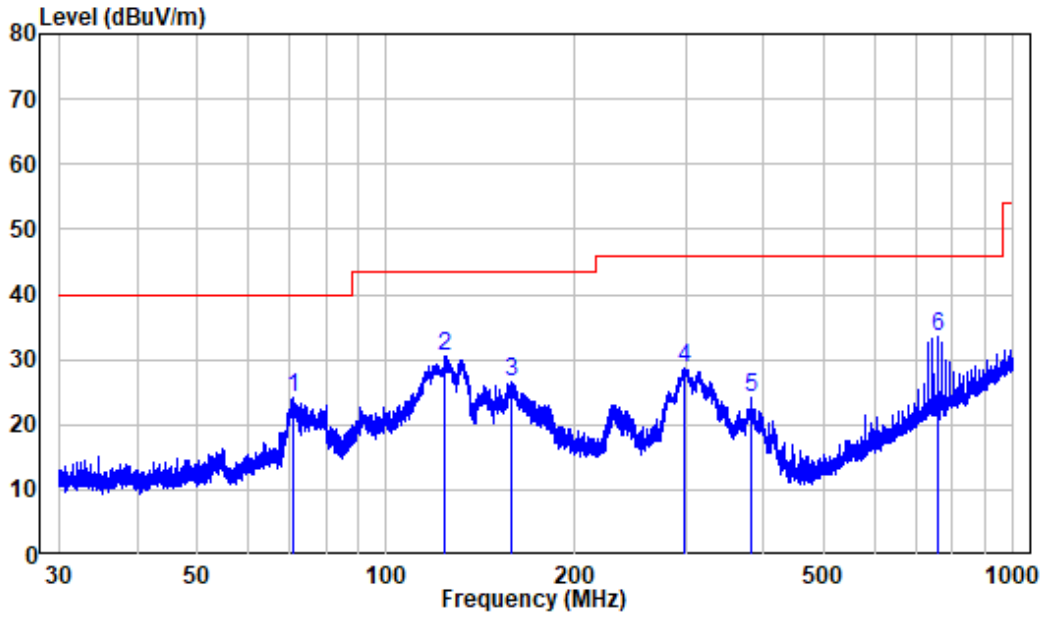


Site : chamber
Condition: 3m VERTICAL
Job No. : RA221215-61881E-RF
Test Mode: 5G WIFI
Adapter : AS2406A-1202000US

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.557	-14.48	48.35	33.87	40.00	-6.13	Peak
2	42.099	-14.32	45.22	30.90	40.00	-9.10	Peak
3	66.237	-13.79	39.02	25.23	40.00	-14.77	Peak
4	142.887	-10.52	41.89	31.37	43.50	-12.13	Peak
5	456.306	-14.84	35.13	20.29	46.00	-25.71	Peak
6	581.467	-10.78	36.02	25.24	46.00	-20.76	Peak

For Adapter 3

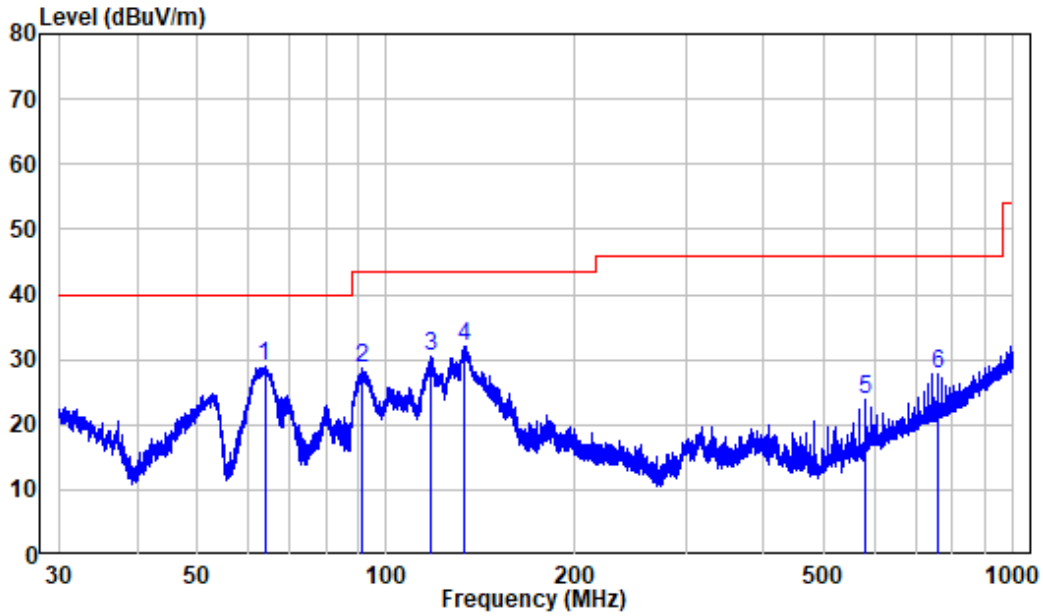
Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : RA221215-61881E-RF
Test Mode: 5G WIFI
Adapter : RD1202000-C55-154MG

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	70.832	-13.75	37.76	24.01	40.00	-15.99	Peak
2	124.024	-10.81	41.37	30.56	43.50	-12.94	Peak
3	158.043	-10.30	37.01	26.71	43.50	-16.79	Peak
4	298.007	-15.69	44.36	28.67	46.00	-17.33	Peak
5	381.249	-11.16	35.30	24.14	46.00	-21.86	Peak
6	756.381	-5.42	39.01	33.59	46.00	-12.41	Peak

Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : RA221215-61881E-RF
Test Mode: 5G WIFI
Adapter : RD1202000-C55-154MG

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	63.955	-13.75	42.88	29.13	40.00	-10.87	Peak
2	91.535	-12.35	40.90	28.55	43.50	-14.95	Peak
3	117.773	-11.16	41.53	30.37	43.50	-13.13	Peak
4	133.385	-10.58	42.49	31.91	43.50	-11.59	Peak
5	581.212	-10.79	34.57	23.78	46.00	-22.22	Peak
6	756.381	-5.42	33.13	27.71	46.00	-18.29	Peak

Above 1GHz: (worst case MIMO, adapter 1)

5150-5250 MHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A									
5180MHz									
4500	64.18	PK	0	1.4	H	-4.72	59.46	74	-14.54
4500	50.42	AV	0	1.4	H	-4.72	45.70	54	-8.30
4500	64.87	PK	278	1.4	V	-4.72	60.15	74	-13.85
4500	51.04	AV	278	1.4	V	-4.72	46.32	54	-7.68
5150	69.06	PK	352	2	H	-2.73	66.33	74	-7.67
5150	54.03	AV	352	2	H	-2.73	51.30	54	-2.70
5150	66.97	PK	188	1.7	V	-2.73	64.24	74	-9.76
5150	51.59	AV	188	1.7	V	-2.73	48.86	54	-5.14
10360	58.16	PK	359	1.4	H	8.12	66.28	68.2	-1.92
10360	55.81	PK	181	1.4	V	8.12	63.93	68.2	-4.27
5200MHz									
10400	54.87	PK	193	2.1	H	8.24	63.11	68.2	-5.09
10400	53.67	PK	118	2.1	V	8.24	61.91	68.2	-6.29
5240MHz									
5350	62.31	PK	151	1.7	H	-2.33	59.98	74	-14.02
5350	49.90	AV	151	1.7	H	-2.33	47.57	54	-6.43
5350	63.15	PK	260	2	V	-2.33	60.82	74	-13.18
5350	50.06	AV	260	2	V	-2.33	47.73	54	-6.27
5460	61.73	PK	296	2.1	H	-2.26	59.47	74	-14.53
5460	48.32	AV	296	2.1	H	-2.26	46.06	54	-7.94
5460	61.63	PK	83	1.7	V	-2.26	59.37	74	-14.63
5460	48.61	AV	83	1.7	V	-2.26	46.35	54	-7.65
10480	53.66	PK	62	1.7	H	8.56	62.22	68.2	-5.98
10480	52.48	PK	239	1.7	V	8.56	61.04	68.2	-7.16

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5180MHz									
4500	64.90	PK	112	2.3	H	-4.72	60.18	74	-13.82
4500	50.81	AV	112	2.3	H	-4.72	46.09	54	-7.91
4500	65.16	PK	320	2.2	V	-4.72	60.44	74	-13.56
4500	51.12	AV	320	2.2	V	-4.72	46.40	54	-7.60
5150	66.57	PK	284	1.8	H	-2.73	63.84	74	-10.16
5150	51.97	AV	284	1.8	H	-2.73	49.24	54	-4.76
5150	67.17	PK	213	2.2	V	-2.73	64.44	74	-9.56
5150	51.55	AV	213	2.2	V	-2.73	48.82	54	-5.18
10360	57.82	PK	185	2	H	8.12	65.94	68.2	-2.26
10360	56.83	PK	8	2	V	8.12	64.95	68.2	-3.25
5200MHz									
10400	57.60	PK	112	2.4	H	8.24	65.84	68.2	-2.36
10400	55.92	PK	69	2.4	V	8.24	64.16	68.2	-4.04
5240MHz									
5350	63.80	PK	151	2	H	-2.33	61.47	74	-12.53
5350	50.96	AV	151	2	H	-2.33	48.63	54	-5.37
5350	63.66	PK	36	1.8	V	-2.33	61.33	74	-12.67
5350	50.20	AV	36	1.8	V	-2.33	47.87	54	-6.13
5460	61.00	PK	46	1.6	H	-2.26	58.74	74	-15.26
5460	49.14	AV	46	1.6	H	-2.26	46.88	54	-7.12
5460	61.22	PK	111	2.4	V	-2.26	58.96	74	-15.04
5460	49.75	AV	111	2.4	V	-2.26	47.49	54	-6.51
10480	54.63	PK	169	2	H	8.56	63.19	68.2	-5.01
10480	55.33	PK	186	2	V	8.56	63.89	68.2	-4.31

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5190MHz									
4500	64.62	PK	81	1.3	H	-4.72	59.90	74	-14.10
4500	51.11	AV	81	1.3	H	-4.72	46.39	54	-7.61
4500	64.49	PK	341	1.2	V	-4.72	59.77	74	-14.23
4500	50.53	AV	341	1.2	V	-4.72	45.81	54	-8.19
5150	66.99	PK	196	1.9	H	-2.73	64.26	74	-9.74
5150	52.29	AV	196	1.9	H	-2.73	49.56	54	-4.44
5150	67.76	PK	314	1.2	V	-2.73	65.03	74	-8.97
5150	52.19	AV	314	1.2	V	-2.73	49.46	54	-4.54
10380	53.87	PK	309	2.4	H	8.18	62.05	68.2	-6.15
10380	54.47	PK	337	2.4	V	8.18	62.65	68.2	-5.55
5230MHz									
5350	63.76	PK	81	2.4	H	-2.33	61.43	74	-12.57
5350	50.99	AV	81	2.4	H	-2.33	48.66	54	-5.34
5350	63.73	PK	288	1.5	V	-2.33	61.40	74	-12.60
5350	50.99	AV	288	1.5	V	-2.33	48.66	54	-5.34
5460	62.31	PK	186	2.2	H	-2.26	60.05	74	-13.95
5460	49.83	AV	186	2.2	H	-2.26	47.57	54	-6.43
5460	62.01	PK	275	1.4	V	-2.26	59.75	74	-14.25
5460	48.89	AV	275	1.4	V	-2.26	46.63	54	-7.37
10460	55.41	PK	120	2	H	8.47	63.88	68.2	-4.32
10460	54.86	PK	172	2	V	8.47	63.33	68.2	-4.87

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5180MHz									
4500	64.93	PK	22	1.5	H	-4.72	60.21	74	-13.79
4500	50.41	AV	22	1.5	H	-4.72	45.69	54	-8.31
4500	65.06	PK	184	2.1	V	-4.72	60.34	74	-13.66
4500	50.54	AV	184	2.1	V	-4.72	45.82	54	-8.18
5150	67.63	PK	79	1.7	H	-2.73	64.90	74	-9.10
5150	52.28	AV	79	1.7	H	-2.73	49.55	54	-4.45
5150	66.45	PK	238	1.9	V	-2.73	63.72	74	-10.28
5150	52.07	AV	238	1.9	V	-2.73	49.34	54	-4.66
10360	57.91	PK	89	1.5	H	8.12	66.03	68.2	-2.17
10360	55.93	PK	353	1.5	V	8.12	64.05	68.2	-4.15
5200MHz									
10400	56.91	PK	344	2.2	H	8.24	65.15	68.2	-3.05
10400	55.58	PK	196	2.2	V	8.24	63.82	68.2	-4.38
5240MHz									
5350	63.64	PK	270	2	H	-2.33	61.31	74	-12.69
5350	50.21	AV	270	2	H	-2.33	47.88	54	-6.12
5350	63.97	PK	45	1.7	V	-2.33	61.64	74	-12.36
5350	50.75	AV	45	1.7	V	-2.33	48.42	54	-5.58
5460	61.52	PK	38	2.2	H	-2.26	59.26	74	-14.74
5460	49.56	AV	38	2.2	H	-2.26	47.30	54	-6.70
5460	61.08	PK	228	2	V	-2.26	58.82	74	-15.18
5460	48.95	AV	228	2	V	-2.26	46.69	54	-7.31
10480	56.86	PK	340	1.2	H	8.56	65.42	68.2	-2.78
10480	55.77	PK	52	1.2	V	8.56	64.33	68.2	-3.87

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5190MHz									
4500	64.84	PK	116	1	H	-4.72	60.12	74	-13.88
4500	50.46	AV	116	1	H	-4.72	45.74	54	-8.26
4500	64.70	PK	161	1.6	V	-4.72	59.98	74	-14.02
4500	50.90	AV	161	1.6	V	-4.72	46.18	54	-7.82
5150	66.35	PK	223	1.7	H	-2.73	63.62	74	-10.38
5150	51.90	AV	223	1.7	H	-2.73	49.17	54	-4.83
5150	66.81	PK	115	1	V	-2.73	64.08	74	-9.92
5150	51.40	AV	115	1	V	-2.73	48.67	54	-5.33
10380	54.49	PK	90	1.4	H	8.18	62.67	68.2	-5.53
10380	54.41	PK	101	1.4	V	8.18	62.59	68.2	-5.61
5230MHz									
5350	63.35	PK	34	1.2	H	-2.33	61.02	74	-12.98
5350	50.49	AV	34	1.2	H	-2.33	48.16	54	-5.84
5350	63.41	PK	323	1.5	V	-2.33	61.08	74	-12.92
5350	50.23	AV	323	1.5	V	-2.33	47.90	54	-6.10
5460	61.09	PK	304	2.2	H	-2.26	58.83	74	-15.17
5460	49.64	AV	304	2.2	H	-2.26	47.38	54	-6.62
5460	62.30	PK	288	1.3	V	-2.26	60.04	74	-13.96
5460	49.42	AV	288	1.3	V	-2.26	47.16	54	-6.84
10460	54.56	PK	238	1.5	H	8.47	63.03	68.2	-5.17
10460	54.86	PK	135	1.5	V	8.47	63.33	68.2	-4.87

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5210MHz									
4500	65.05	PK	74	2.2	H	-4.72	60.33	74	-13.67
4500	50.56	AV	74	2.2	H	-4.72	45.84	54	-8.16
4500	64.89	PK	145	1.8	V	-4.72	60.17	74	-13.83
4500	51.09	AV	145	1.8	V	-4.72	46.37	54	-7.63
5150	67.02	PK	116	2.1	H	-2.73	64.29	74	-9.71
5150	51.35	AV	116	2.1	H	-2.73	48.62	54	-5.38
5150	67.56	PK	203	2.3	V	-2.73	64.83	74	-9.17
5150	51.69	AV	203	2.3	V	-2.73	48.96	54	-5.04
5350	63.47	PK	132	1.9	H	-2.33	61.14	74	-12.86
5350	50.64	AV	132	1.9	H	-2.33	48.31	54	-5.69
5350	64.11	PK	331	1.7	V	-2.33	61.78	74	-12.22
5350	50.84	AV	331	1.7	V	-2.33	48.51	54	-5.49
5460	61.88	PK	125	1.5	H	-2.26	59.62	74	-14.38
5460	49.39	AV	125	1.5	H	-2.26	47.13	54	-6.87
5460	62.21	PK	212	2.4	V	-2.26	59.95	74	-14.05
5460	49.53	AV	212	2.4	V	-2.26	47.27	54	-6.73
10420	54.17	PK	80	1.3	H	8.32	62.49	68.2	-5.71
10420	54.00	PK	255	1.3	V	8.32	62.32	68.2	-5.88

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC160									
5250MHz									
4500	65.56	PK	132	1.8	H	-4.72	60.84	74	-13.16
4500	52.53	AV	132	1.8	H	-4.72	47.81	54	-6.19
4500	66.57	PK	46	1.3	V	-4.72	61.85	74	-12.15
4500	50.83	AV	46	1.3	V	-4.72	46.11	54	-7.89
5150	67.14	PK	301	1.4	H	-2.73	64.41	74	-9.59
5150	52.4	AV	301	1.4	H	-2.73	49.67	54	-4.33
5150	64.56	PK	21	2.3	V	-2.73	61.83	74	-12.17
5150	52.82	AV	21	2.3	V	-2.73	50.09	54	-3.91
5350	65.89	PK	161	1.4	H	-2.33	63.56	74	-10.44
5350	52.12	AV	161	1.4	H	-2.33	49.79	54	-4.21
5350	62.66	PK	325	1.6	V	-2.33	60.33	74	-13.67
5350	50.16	AV	325	1.6	V	-2.33	47.83	54	-6.17
5460	63.45	PK	150	2.5	H	-2.26	61.19	74	-12.81
5460	47.37	AV	150	2.5	H	-2.26	45.11	54	-8.89
5460	63.1	PK	16	1.1	V	-2.26	60.84	74	-13.16
5460	46.78	AV	16	1.1	V	-2.26	44.52	54	-9.48
10500	56.38	PK	92	1.6	H	8.65	65.03	68.2	-3.17
10500	42.07	PK	92	1.6	V	8.65	50.72	68.2	-17.48

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX20(worst case 242Tone)									
5180MHz									
4500	64.70	PK	90	1.8	H	-4.72	59.98	74	-14.02
4500	50.96	AV	90	1.8	H	-4.72	46.24	54	-7.76
4500	64.88	PK	190	2.2	V	-4.72	60.16	74	-13.84
4500	50.52	AV	190	2.2	V	-4.72	45.80	54	-8.20
5150	66.33	PK	327	2.2	H	-2.73	63.60	74	-10.40
5150	51.94	AV	327	2.2	H	-2.73	49.21	54	-4.79
5150	66.45	PK	86	2.4	V	-2.73	63.72	74	-10.28
5150	51.51	AV	86	2.4	V	-2.73	48.78	54	-5.22
10360	57.12	PK	164	1.4	H	8.12	65.24	68.2	-2.96
10360	56.29	PK	165	1.4	V	8.12	64.41	68.2	-3.79
5200MHz									
10400	56.70	PK	346	1.8	H	8.24	64.94	68.2	-3.26
10400	55.92	PK	258	1.8	V	8.24	64.16	68.2	-4.04
5240MHz									
5350	63.79	PK	354	1.6	H	-2.33	61.46	74	-12.54
5350	50.23	AV	354	1.6	H	-2.33	47.90	54	-6.10
5350	63.97	PK	77	1.5	V	-2.33	61.64	74	-12.36
5350	51.13	AV	77	1.5	V	-2.33	48.80	54	-5.20
5460	62.20	PK	261	2.2	H	-2.26	59.94	74	-14.06
5460	49.72	AV	261	2.2	H	-2.26	47.46	54	-6.54
5460	61.56	PK	236	1.3	V	-2.26	59.30	74	-14.70
5460	49.55	AV	236	1.3	V	-2.26	47.29	54	-6.71
10480	56.49	PK	22	1	H	8.56	65.05	68.2	-3.15
10480	56.09	PK	36	1	V	8.56	64.65	68.2	-3.55

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX40(worst case 484Tone)									
5190MHz									
4500	64.96	PK	122	2.1	H	-4.72	60.24	74	-13.76
4500	50.49	AV	122	2.1	H	-4.72	45.77	54	-8.23
4500	64.35	PK	125	2.2	V	-4.72	59.63	74	-14.37
4500	50.36	AV	125	2.2	V	-4.72	45.64	54	-8.36
5150	66.44	PK	173	2	H	-2.73	63.71	74	-10.29
5150	51.40	AV	173	2	H	-2.73	48.67	54	-5.33
5150	67.57	PK	264	1.7	V	-2.73	64.84	74	-9.16
5150	51.74	AV	264	1.7	V	-2.73	49.01	54	-4.99
10380	53.95	PK	136	2	H	8.18	62.13	68.2	-6.07
10380	54.53	PK	39	2	V	8.18	62.71	68.2	-5.49
5230MHz									
5350	63.41	PK	118	2.4	H	-2.33	61.08	74	-12.92
5350	50.74	AV	118	2.4	H	-2.33	48.41	54	-5.59
5350	64.03	PK	71	1.6	V	-2.33	61.70	74	-12.30
5350	50.52	AV	71	1.6	V	-2.33	48.19	54	-5.81
5460	61.64	PK	183	1.8	H	-2.26	59.38	74	-14.62
5460	49.30	AV	183	1.8	H	-2.26	47.04	54	-6.96
5460	62.31	PK	314	2.5	V	-2.26	60.05	74	-13.95
5460	49.24	AV	314	2.5	V	-2.26	46.98	54	-7.02
10460	53.91	PK	14	1.3	H	8.47	62.38	68.2	-5.82
10460	53.60	PK	104	1.3	V	8.47	62.07	68.2	-6.13

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX80(worst case 996Tone)									
5210MHz									
4500	64.52	PK	124	1.1	H	-4.72	59.80	74	-14.20
4500	50.29	AV	124	1.1	H	-4.72	45.57	54	-8.43
4500	64.84	PK	147	1.7	V	-4.72	60.12	74	-13.88
4500	50.31	AV	147	1.7	V	-4.72	45.59	54	-8.41
5150	67.78	PK	297	1.9	H	-2.73	65.05	74	-8.95
5150	52.29	AV	297	1.9	H	-2.73	49.56	54	-4.44
5150	67.42	PK	155	2.1	V	-2.73	64.69	74	-9.31
5150	51.59	AV	155	2.1	V	-2.73	48.86	54	-5.14
5350	64.04	PK	140	1.8	H	-2.33	61.71	74	-12.29
5350	50.41	AV	140	1.8	H	-2.33	48.08	54	-5.92
5350	63.53	PK	123	1.9	V	-2.33	61.20	74	-12.80
5350	50.70	AV	123	1.9	V	-2.33	48.37	54	-5.63
5460	62.27	PK	13	2.2	H	-2.26	60.01	74	-13.99
5460	49.06	AV	13	2.2	H	-2.26	46.80	54	-7.20
5460	62.29	PK	187	2	V	-2.26	60.03	74	-13.97
5460	49.34	AV	187	2	V	-2.26	47.08	54	-6.92
10420	54.06	PK	252	2	H	8.32	62.38	68.2	-5.82
10420	54.27	PK	137	2	V	8.32	62.59	68.2	-5.61

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX160(worst case 2*996Tone)									
5250MHz									
4500	66.19	PK	252	1.5	H	-4.72	61.47	74	-12.53
4500	51.98	AV	252	1.5	H	-4.72	47.26	54	-6.74
4500	65.94	PK	339	1.8	V	-4.72	61.22	74	-12.78
4500	51.94	AV	339	1.8	V	-4.72	47.22	54	-6.78
5150	67.68	PK	106	1.8	H	-2.73	64.95	74	-9.05
5150	52.73	AV	106	1.8	H	-2.73	50.00	54	-4.00
5150	65.20	PK	116	2.2	V	-2.73	62.47	74	-11.53
5150	52.65	AV	116	2.2	V	-2.73	49.92	54	-4.08
5350	66.73	PK	290	1.4	H	-2.33	64.40	74	-9.60
5350	51.53	AV	290	1.4	H	-2.33	49.20	54	-4.80
5350	63.30	PK	89	1.1	V	-2.33	60.97	74	-13.03
5350	48.88	AV	89	1.1	V	-2.33	46.55	54	-7.45
5460	62.34	PK	298	1.7	H	-2.26	60.08	74	-13.92
5460	48.03	AV	298	1.7	H	-2.26	45.77	54	-8.23
5460	61.62	PK	195	2.4	V	-2.26	59.36	74	-14.64
5460	47.50	AV	195	2.4	V	-2.26	45.24	54	-8.76
10500	57.30	PK	293	2.1	H	8.65	65.95	68.2	-2.25
10500	51.58	PK	226	2.1	V	8.65	60.23	68.2	-7.97

5250-5350 MHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A									
5260MHz									
4500	64.61	PK	351	2.2	H	-4.72	59.89	74	-14.11
4500	50.71	AV	351	2.2	H	-4.72	45.99	54	-8.01
4500	64.61	PK	109	1.2	V	-4.72	59.89	74	-14.11
4500	51.07	AV	109	1.2	V	-4.72	46.35	54	-7.65
5150	67.65	PK	118	2.1	H	-2.73	64.92	74	-9.08
5150	51.88	AV	118	2.1	H	-2.73	49.15	54	-4.85
5150	67.39	PK	261	1	V	-2.73	64.66	74	-9.34
5150	51.39	AV	261	1	V	-2.73	48.66	54	-5.34
10520	56.36	PK	86	1.1	H	8.65	65.01	68.2	-3.19
10520	55.47	PK	264	1.1	V	8.65	64.12	68.2	-4.08
5280MHz									
10560	57.17	PK	333	1.2	H	8.69	65.86	68.2	-2.34
10560	56.72	PK	0	1.2	V	8.69	65.41	68.2	-2.79
5320MHz									
5350	63.26	PK	280	2.2	H	-2.33	60.93	74	-13.07
5350	50.54	AV	280	2.2	H	-2.33	48.21	54	-5.79
5350	63.75	PK	166	2	V	-2.33	61.42	74	-12.58
5350	50.68	AV	166	2	V	-2.33	48.35	54	-5.65
5460	62.07	PK	205	2	H	-2.26	59.81	74	-14.19
5460	49.17	AV	205	2	H	-2.26	46.91	54	-7.09
5460	62.31	PK	141	2.5	V	-2.26	60.05	74	-13.95
5460	49.69	AV	141	2.5	V	-2.26	47.43	54	-6.57
10640	57.57	PK	192	1.2	H	8.92	66.49	74	-7.51
10640	43.49	AV	103	1.2	H	8.92	52.41	54	-1.59
10640	55.08	PK	6	2.4	V	8.92	64.00	74	-10.00
10640	41.40	AV	127	2.4	V	8.92	50.32	54	-3.68

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5260MHz									
4500	64.83	PK	342	2.4	H	-4.72	60.11	74	-13.89
4500	50.76	AV	342	2.4	H	-4.72	46.04	54	-7.96
4500	64.19	PK	250	1	V	-4.72	59.47	74	-14.53
4500	50.49	AV	250	1	V	-4.72	45.77	54	-8.23
5150	67.72	PK	332	1.9	H	-2.73	64.99	74	-9.01
5150	52.10	AV	332	1.9	H	-2.73	49.37	54	-4.63
5150	67.01	PK	350	2.1	V	-2.73	64.28	74	-9.72
5150	51.92	AV	350	2.1	V	-2.73	49.19	54	-4.81
10520	55.95	PK	32	1.5	H	8.65	64.60	68.2	-3.60
10520	56.01	PK	114	1.5	V	8.65	64.66	68.2	-3.54
5280MHz									
10560	57.60	PK	210	1.2	H	8.69	66.29	68.2	-1.91
10560	56.48	PK	173	1.2	V	8.69	65.17	68.2	-3.03
5320MHz									
5350	63.22	PK	309	1.8	H	-2.33	60.89	74	-13.11
5350	50.83	AV	309	1.8	H	-2.33	48.50	54	-5.50
5350	63.72	PK	88	2.2	V	-2.33	61.39	74	-12.61
5350	50.60	AV	88	2.2	V	-2.33	48.27	54	-5.73
5460	61.97	PK	185	1.3	H	-2.26	59.71	74	-14.29
5460	48.98	AV	185	1.3	H	-2.26	46.72	54	-7.28
5460	62.32	PK	184	1.6	V	-2.26	60.06	74	-13.94
5460	49.40	AV	184	1.6	V	-2.26	47.14	54	-6.86
10640	57.35	PK	302	2.5	H	8.92	66.27	74	-7.73
10640	42.24	AV	186	2.5	H	8.92	51.16	54	-2.84
10640	54.95	PK	224	1.6	V	8.92	63.87	74	-10.13
10640	40.80	AV	17	1.6	V	8.92	49.72	54	-4.28

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5270MHz									
4500	64.32	PK	3	1.1	H	-4.72	59.60	74	-14.40
4500	51.11	AV	3	1.1	H	-4.72	46.39	54	-7.61
4500	64.41	PK	331	1.9	V	-4.72	59.69	74	-14.31
4500	50.35	AV	331	1.9	V	-4.72	45.63	54	-8.37
5150	66.70	PK	206	1.8	H	-2.73	63.97	74	-10.03
5150	51.62	AV	206	1.8	H	-2.73	48.89	54	-5.11
5150	67.28	PK	246	1.4	V	-2.73	64.55	74	-9.45
5150	52.18	AV	246	1.4	V	-2.73	49.45	54	-4.55
10540	55.17	PK	44	1.2	H	8.65	63.82	68.2	-4.38
10540	55.22	PK	305	1.2	V	8.65	63.87	68.2	-4.33
5310MHz									
5350	63.91	PK	28	1.6	H	-2.33	61.58	74	-12.42
5350	50.24	AV	28	1.6	H	-2.33	47.91	54	-6.09
5350	63.90	PK	183	1.4	V	-2.33	61.57	74	-12.43
5350	50.83	AV	183	1.4	V	-2.33	48.50	54	-5.50
5460	62.21	PK	167	1.8	H	-2.26	59.95	74	-14.05
5460	49.73	AV	167	1.8	H	-2.26	47.47	54	-6.53
5460	62.30	PK	358	2.5	V	-2.26	60.04	74	-13.96
5460	49.31	AV	358	2.5	V	-2.26	47.05	54	-6.95
10620	56.50	PK	194	1.3	H	8.89	65.39	74	-8.61
10620	42.52	AV	317	1.3	H	8.89	51.41	54	-2.59
10620	54.76	PK	238	1.1	V	8.89	63.65	74	-10.35
10620	41.49	AV	254	1.1	V	8.89	50.38	54	-3.62

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5260MHz									
4500	65.14	PK	43	2.4	H	-4.72	60.42	74	-13.58
4500	51.08	AV	43	2.4	H	-4.72	46.36	54	-7.64
4500	64.23	PK	48	1.4	V	-4.72	59.51	74	-14.49
4500	50.99	AV	48	1.4	V	-4.72	46.27	54	-7.73
5150	67.35	PK	204	1.2	H	-2.73	64.62	74	-9.38
5150	52.12	AV	204	1.2	H	-2.73	49.39	54	-4.61
5150	66.40	PK	104	2.2	V	-2.73	63.67	74	-10.33
5150	52.23	AV	104	2.2	V	-2.73	49.50	54	-4.50
10520	56.47	PK	159	1.4	H	8.65	65.12	68.2	-3.08
10520	55.76	PK	258	1.4	V	8.65	64.41	68.2	-3.79
5280MHz									
10560	57.47	PK	111	1.3	H	8.69	66.16	68.2	-2.04
10560	55.94	PK	198	1.3	V	8.69	64.63	68.2	-3.57
5320MHz									
5350	64.08	PK	160	1.2	H	-2.33	61.75	74	-12.25
5350	50.96	AV	160	1.2	H	-2.33	48.63	54	-5.37
5350	63.30	PK	236	1.6	V	-2.33	60.97	74	-13.03
5350	50.76	AV	236	1.6	V	-2.33	48.43	54	-5.57
5460	61.42	PK	101	2.1	H	-2.26	59.16	74	-14.84
5460	49.75	AV	101	2.1	H	-2.26	47.49	54	-6.51
5460	62.32	PK	299	2.3	V	-2.26	60.06	74	-13.94
5460	49.16	AV	299	2.3	V	-2.26	46.90	54	-7.10
10640	56.28	PK	261	2.4	H	8.92	65.20	74	-8.80
10640	42.78	AV	353	2.4	H	8.92	51.70	54	-2.30
10640	55.06	PK	273	2.3	V	8.92	63.98	74	-10.02
10640	41.53	AV	310	2.3	V	8.92	50.45	54	-3.55

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5270MHz									
4500	64.45	PK	29	2.1	H	-4.72	59.73	74	-14.27
4500	50.27	AV	29	2.1	H	-4.72	45.55	54	-8.45
4500	65.12	PK	326	2.5	V	-4.72	60.40	74	-13.60
4500	50.33	AV	326	2.5	V	-4.72	45.61	54	-8.39
5150	65.63	PK	148	1	H	-2.73	62.90	74	-11.10
5150	52.05	AV	148	1	H	-2.73	49.32	54	-4.68
5150	66.31	PK	322	2	V	-2.73	63.58	74	-10.42
5150	51.55	AV	322	2	V	-2.73	48.82	54	-5.18
10540	54.98	PK	349	1.4	H	8.65	63.63	68.2	-4.57
10540	55.12	PK	218	1.4	V	8.65	63.77	68.2	-4.43
5310MHz									
5350	64.11	PK	296	2.3	H	-2.33	61.78	74	-12.22
5350	51.10	AV	296	2.3	H	-2.33	48.77	54	-5.23
5350	64.00	PK	25	1.4	V	-2.33	61.67	74	-12.33
5350	50.75	AV	25	1.4	V	-2.33	48.42	54	-5.58
5460	61.55	PK	282	2.3	H	-2.26	59.29	74	-14.71
5460	49.56	AV	282	2.3	H	-2.26	47.30	54	-6.70
5460	62.01	PK	245	1.6	V	-2.26	59.75	74	-14.25
5460	49.02	AV	245	1.6	V	-2.26	46.76	54	-7.24
10620	56.48	PK	331	2.2	H	8.89	65.37	74	-8.63
10620	43.11	AV	195	2.2	H	8.89	52.00	54	-2.00
10620	55.00	PK	15	2.2	V	8.89	63.89	74	-10.11
10620	40.94	AV	91	2.2	V	8.89	49.83	54	-4.17

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5290MHz									
4500	65.12	PK	160	1.8	H	-4.72	60.40	74	-13.60
4500	51.09	AV	160	1.8	H	-4.72	46.37	54	-7.63
4500	64.33	PK	78	2.2	V	-4.72	59.61	74	-14.39
4500	50.60	AV	78	2.2	V	-4.72	45.88	54	-8.12
5150	65.98	PK	239	1.9	H	-2.73	63.25	74	-10.75
5150	51.73	AV	239	1.9	H	-2.73	49.00	54	-5.00
5150	66.33	PK	18	2.1	V	-2.73	63.60	74	-10.40
5150	52.15	AV	18	2.1	V	-2.73	49.42	54	-4.58
5350	63.47	PK	32	1.8	H	-2.33	61.14	74	-12.86
5350	51.06	AV	32	1.8	H	-2.33	48.73	54	-5.27
5350	64.01	PK	100	1.7	V	-2.33	61.68	74	-12.32
5350	50.72	AV	100	1.7	V	-2.33	48.39	54	-5.61
5460	61.32	PK	245	1.1	H	-2.26	59.06	74	-14.94
5460	48.91	AV	245	1.1	H	-2.26	46.65	54	-7.35
5460	60.92	PK	136	1	V	-2.26	58.66	74	-15.34
5460	49.50	AV	136	1	V	-2.26	47.24	54	-6.76
10580	53.06	PK	167	1	H	8.77	61.83	68.2	-6.37
10580	53.20	PK	6	1	V	8.77	61.97	68.2	-6.23

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX20(worst case 242Tone)									
5260MHz									
4500	64.97	PK	22	2.4	H	-4.72	60.25	74	-13.75
4500	50.46	AV	22	2.4	H	-4.72	45.74	54	-8.26
4500	64.24	PK	316	2.4	V	-4.72	59.52	74	-14.48
4500	50.28	AV	316	2.4	V	-4.72	45.56	54	-8.44
5150	65.51	PK	185	2.5	H	-2.73	62.78	74	-11.22
5150	52.13	AV	185	2.5	H	-2.73	49.40	54	-4.60
5150	66.38	PK	83	1.3	V	-2.73	63.65	74	-10.35
5150	51.63	AV	83	1.3	V	-2.73	48.90	54	-5.10
10520	56.64	PK	78	1.2	H	8.65	65.29	68.2	-2.91
10520	56.54	PK	332	1.2	V	8.65	65.19	68.2	-3.01
5280MHz									
10560	56.91	PK	140	2.2	H	8.69	65.6	68.2	-2.60
10560	56.19	PK	106	2.2	V	8.69	64.88	68.2	-3.32
5320MHz									
5350	63.18	PK	152	1.4	H	-2.33	60.85	74	-13.15
5350	50.18	AV	152	1.4	H	-2.33	47.85	54	-6.15
5350	63.40	PK	280	2.3	V	-2.33	61.07	74	-12.93
5350	51.04	AV	280	2.3	V	-2.33	48.71	54	-5.29
5460	60.95	PK	33	1.9	H	-2.26	58.69	74	-15.31
5460	49.22	AV	33	1.9	H	-2.26	46.96	54	-7.04
5460	62.28	PK	326	1.3	V	-2.26	60.02	74	-13.98
5460	49.15	AV	326	1.3	V	-2.26	46.89	54	-7.11
10640	56.94	PK	312	1.8	H	8.92	65.86	74	-8.14
10640	42.97	AV	316	1.8	H	8.92	51.89	54	-2.11
10640	55.01	PK	172	2.5	V	8.92	63.93	74	-10.07
10640	41.11	AV	276	2.5	V	8.92	50.03	54	-3.97

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX40(worst case 484Tone)									
5270MHz									
4500	64.70	PK	243	2.1	H	-4.72	59.98	74	-14.02
4500	50.62	AV	243	2.1	H	-4.72	45.90	54	-8.10
4500	64.95	PK	250	1.8	V	-4.72	60.23	74	-13.77
4500	50.54	AV	250	1.8	V	-4.72	45.82	54	-8.18
5150	66.53	PK	334	1.8	H	-2.73	63.80	74	-10.20
5150	51.91	AV	334	1.8	H	-2.73	49.18	54	-4.82
5150	65.97	PK	20	1.6	V	-2.73	63.24	74	-10.76
5150	52.11	AV	20	1.6	V	-2.73	49.38	54	-4.62
10540	54.61	PK	163	1.7	H	8.65	63.26	68.2	-4.94
10540	54.74	PK	70	1.7	V	8.65	63.39	68.2	-4.81
5310MHz									
5350	63.97	PK	158	1.4	H	-2.33	61.64	74	-12.36
5350	50.57	AV	158	1.4	H	-2.33	48.24	54	-5.76
5350	63.25	PK	359	2.1	V	-2.33	60.92	74	-13.08
5350	50.41	AV	359	2.1	V	-2.33	48.08	54	-5.92
5460	60.94	PK	36	2.1	H	-2.26	58.68	74	-15.32
5460	49.35	AV	36	2.1	H	-2.26	47.09	54	-6.91
5460	60.92	PK	238	1.8	V	-2.26	58.66	74	-15.34
5460	49.33	AV	238	1.8	V	-2.26	47.07	54	-6.93
10620	55.78	PK	176	2.1	H	8.89	64.67	74	-9.33
10620	42.99	AV	38	2.1	H	8.89	51.88	54	-2.12
10620	55.16	PK	191	1.4	V	8.89	64.05	74	-9.95
10620	40.93	AV	145	1.4	V	8.89	49.82	54	-4.18

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX80(worst case 996Tone)									
5290MHz									
4500	64.23	PK	244	1.9	H	-4.72	59.51	74	-14.49
4500	50.48	AV	244	1.9	H	-4.72	45.76	54	-8.24
4500	64.87	PK	47	1.3	V	-4.72	60.15	74	-13.85
4500	50.64	AV	47	1.3	V	-4.72	45.92	54	-8.08
5150	66.08	PK	201	1.5	H	-2.73	63.35	74	-10.65
5150	51.90	AV	201	1.5	H	-2.73	49.17	54	-4.83
5150	66.60	PK	11	1.1	V	-2.73	63.87	74	-10.13
5150	51.69	AV	11	1.1	V	-2.73	48.96	54	-5.04
5350	63.95	PK	252	1.5	H	-2.33	61.62	74	-12.38
5350	50.71	AV	252	1.5	H	-2.33	48.38	54	-5.62
5350	64.01	PK	130	1.1	V	-2.33	61.68	74	-12.32
5350	50.34	AV	130	1.1	V	-2.33	48.01	54	-5.99
5460	62.24	PK	102	2.4	H	-2.26	59.98	74	-14.02
5460	49.44	AV	102	2.4	H	-2.26	47.18	54	-6.82
5460	62.28	PK	28	1.3	V	-2.26	60.02	74	-13.98
5460	49.01	AV	28	1.3	V	-2.26	46.75	54	-7.25
10580	55.00	PK	297	1.1	H	8.77	63.77	68.2	-4.43
10580	54.88	PK	233	1.1	V	8.77	63.65	68.2	-4.55

5470-5725MHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A									
5500MHz									
5460	62.39	PK	272	2.1	H	-2.26	60.13	74	-13.87
5460	48.27	AV	272	2.1	H	-2.26	46.01	54	-7.99
5460	62.28	PK	338	2.4	V	-2.26	60.02	74	-13.98
5460	48.16	AV	338	2.4	V	-2.26	45.90	54	-8.10
5470	63.98	PK	206	1.5	H	-2.22	61.76	68.2	-6.44
5470	63.76	PK	279	1.8	V	-2.22	61.54	68.2	-6.66
11000	55.37	PK	342	1.8	H	9.67	65.04	74	-8.96
11000	42.82	AV	17	1.8	H	9.67	52.49	54	-1.51
11000	53.76	PK	317	2.3	V	9.67	63.43	74	-10.57
11000	40.64	AV	194	2.3	V	9.67	50.31	54	-3.69
5580MHz									
11160	56.01	PK	192	1.1	H	8.68	64.69	74	-9.31
11160	43.30	AV	39	1.1	H	8.68	51.98	54	-2.02
11160	55.75	PK	300	1.8	V	8.68	64.43	74	-9.57
11160	42.26	AV	56	1.8	V	8.68	50.94	54	-3.06
5700MHz									
5725	60.85	PK	149	2.2	H	-1.96	58.89	68.2	-9.31
5725	68.14	PK	38	2.3	V	-1.96	66.18	68.2	-2.02
5745	60.54	PK	18	2.5	H	-1.91	58.63	68.2	-9.57
5745	67.05	PK	251	1.8	V	-1.91	65.14	68.2	-3.06
11400	57.43	PK	190	1.3	H	7.26	64.69	74	-9.31
11400	44.72	AV	117	1.3	H	7.26	51.98	54	-2.02
11400	57.17	PK	221	2.1	V	7.26	64.43	74	-9.57
11400	43.68	AV	205	2.1	V	7.26	50.94	54	-3.06

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5500MHz									
5460	62.48	PK	1	1	H	-2.26	60.22	74	-13.78
5460	48.00	AV	1	1	H	-2.26	45.74	54	-8.26
5460	62.36	PK	293	2	V	-2.26	60.10	74	-13.90
5460	47.91	AV	293	2	V	-2.26	45.65	54	-8.35
5470	64.15	PK	142	1.8	H	-2.22	61.93	68.2	-6.27
5470	63.93	PK	175	2.2	V	-2.22	61.71	68.2	-6.49
11000	55.23	PK	56	1.7	H	9.67	64.90	74	-9.10
11000	42.06	AV	225	1.7	H	9.67	51.73	54	-2.27
11000	53.52	PK	19	1.1	V	9.67	63.19	74	-10.81
11000	40.34	AV	241	1.1	V	9.67	50.01	54	-3.99
5580MHz									
11160	56.21	PK	358	2.2	H	8.68	64.89	74	-9.11
11160	43.06	AV	305	2.2	H	8.68	51.74	54	-2.26
11160	55.44	PK	78	2.1	V	8.68	64.12	74	-9.88
11160	41.85	AV	17	2.1	V	8.68	50.53	54	-3.47
5700MHz									
5725	64.58	PK	39	2.2	H	-1.96	62.62	68.2	-5.58
5725	64.27	PK	100	1.3	V	-1.96	62.31	68.2	-5.89
5745	62.68	PK	29	1.1	H	-1.91	60.77	68.2	-7.43
5745	62.55	PK	165	1.5	V	-1.91	60.64	68.2	-7.56
11400	57.14	PK	116	1.3	H	7.26	64.40	74	-9.60
11400	43.85	AV	179	1.3	H	7.26	51.11	54	-2.89
11400	56.21	PK	239	1.6	V	7.26	63.47	74	-10.53
11400	42.90	AV	73	1.6	V	7.26	50.16	54	-3.84

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5510MHz									
5460	62.96	PK	192	1.8	H	-2.26	60.70	74	-13.30
5460	48.43	AV	192	1.8	H	-2.26	46.17	54	-7.83
5460	62.80	PK	86	1.3	V	-2.26	60.54	74	-13.46
5460	48.29	AV	86	1.3	V	-2.26	46.03	54	-7.97
5470	64.42	PK	160	2	H	-2.22	62.20	68.2	-6.00
5470	64.23	PK	313	2	V	-2.22	62.01	68.2	-6.19
11020	54.04	PK	283	2.4	H	9.57	63.61	74	-10.39
11020	41.17	AV	52	2.4	H	9.57	50.74	54	-3.26
11020	52.25	PK	37	1.9	V	9.57	61.82	74	-12.18
11020	38.98	AV	154	1.9	V	9.57	48.55	54	-5.45
5550MHz									
11100	53.67	PK	175	2.3	H	9.12	62.79	74	-11.21
11100	40.48	AV	77	2.3	H	9.12	49.60	54	-4.40
11100	52.55	PK	48	1.2	V	9.12	61.67	74	-12.33
11100	39.21	AV	116	1.2	V	9.12	48.33	54	-5.67
5670MHz									
5725	64.15	PK	73	2.1	H	-1.96	62.19	68.2	-6.01
5725	63.96	PK	82	1.7	V	-1.96	62.00	68.2	-6.20
5745	62.64	PK	30	1.2	H	-1.91	60.73	68.2	-7.47
5745	62.49	PK	305	2.5	V	-1.91	60.58	68.2	-7.62
11340	56.02	PK	33	1.8	H	7.67	63.69	74	-10.31
11340	42.94	AV	298	1.8	H	7.67	50.61	54	-3.39
11340	54.61	PK	251	1.4	V	7.67	62.28	74	-11.72
11340	41.25	AV	62	1.4	V	7.67	48.92	54	-5.08

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5500MHz									
5460	61.91	PK	103	1.9	H	-2.26	59.65	74	-14.35
5460	48.02	AV	103	1.9	H	-2.26	45.76	54	-8.24
5460	61.79	PK	49	1.5	V	-2.26	59.53	74	-14.47
5460	47.88	AV	49	1.5	V	-2.26	45.62	54	-8.38
5470	63.78	PK	68	1.5	H	-2.22	61.56	68.2	-6.64
5470	63.52	PK	183	1.3	V	-2.22	61.30	68.2	-6.90
11000	55.51	PK	30	1.6	H	9.67	65.18	74	-8.82
11000	42.40	AV	229	1.6	H	9.67	52.07	54	-1.93
11000	53.14	PK	266	1.8	V	9.67	62.81	74	-11.19
11000	40.07	AV	147	1.8	V	9.67	49.74	54	-4.26
5580MHz									
11160	56.26	PK	244	2	H	8.68	64.94	74	-9.06
11160	43.14	AV	247	2	H	8.68	51.82	54	-2.18
11160	55.23	PK	217	2.1	V	8.68	63.91	74	-10.09
11160	42.30	AV	54	2.1	V	8.68	50.98	54	-3.02
5700MHz									
5725	64.58	PK	344	1.8	H	-1.96	62.62	68.2	-5.58
5725	64.37	PK	127	1.7	V	-1.96	62.41	68.2	-5.79
5745	62.74	PK	340	2.3	H	-1.91	60.83	68.2	-7.37
5745	62.55	PK	55	2.1	V	-1.91	60.64	68.2	-7.56
11400	57.32	PK	331	2.3	H	7.26	64.58	74	-9.42
11400	44.21	AV	12	2.3	H	7.26	51.47	54	-2.53
11400	56.16	PK	243	1.6	V	7.26	63.42	74	-10.58
11400	42.60	AV	235	1.6	V	7.26	49.86	54	-4.14

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5510MHz									
5460	63.08	PK	290	2	H	-2.26	60.82	74	-13.18
5460	48.27	AV	290	2	H	-2.26	46.01	54	-7.99
5460	62.93	PK	312	2.4	V	-2.26	60.67	74	-13.33
5460	48.16	AV	312	2.4	V	-2.26	45.90	54	-8.10
5470	64.36	PK	250	1.4	H	-2.22	62.14	68.2	-6.06
5470	64.11	PK	320	1.5	V	-2.22	61.89	68.2	-6.31
11020	54.95	PK	131	1.4	H	9.57	64.52	74	-9.48
11020	41.12	AV	287	1.4	H	9.57	50.69	54	-3.31
11020	53.34	PK	265	1.4	V	9.57	62.91	74	-11.09
11020	39.25	AV	185	1.4	V	9.57	48.82	54	-5.18
5550MHz									
11100	54.46	PK	90	1	H	9.12	63.58	74	-10.42
11100	40.37	AV	145	1	H	9.12	49.49	54	-4.51
11100	53.58	PK	15	1.3	V	9.12	62.70	74	-11.30
11100	39.62	AV	277	1.3	V	9.12	48.74	54	-5.26
5670MHz									
5725	64.27	PK	289	2.2	H	-1.96	62.31	68.2	-5.89
5725	64.03	PK	321	1.4	V	-1.96	62.07	68.2	-6.13
5745	62.81	PK	147	1.7	H	-1.91	60.90	68.2	-7.30
5745	62.64	PK	19	2	V	-1.91	60.73	68.2	-7.47
11340	56.25	PK	95	1	H	7.67	63.92	74	-10.08
11340	42.56	AV	260	1	H	7.67	50.23	54	-3.77
11340	55.41	PK	182	2	V	7.67	63.08	74	-10.92
11340	41.32	AV	310	2	V	7.67	48.99	54	-5.01

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5530MHz									
5460	63.71	PK	120	1.9	H	-2.26	61.45	74	-12.55
5460	48.76	AV	120	1.9	H	-2.26	46.50	54	-7.50
5460	63.52	PK	136	1.8	V	-2.26	61.26	74	-12.74
5460	48.59	AV	136	1.8	V	-2.26	46.33	54	-7.67
5470	66.34	PK	287	1.9	H	-2.22	64.12	68.2	-4.08
5470	65.93	PK	189	2.1	V	-2.22	63.71	68.2	-4.49
11060	52.90	PK	342	1.2	H	9.37	62.27	74	-11.73
11060	39.47	AV	96	1.2	H	9.37	48.84	54	-5.16
11060	52.23	PK	70	1.5	V	9.37	61.60	74	-12.40
11060	38.26	AV	43	1.5	V	9.37	47.63	54	-6.37
5610MHz									
5725	63.88	PK	64	1.4	H	-1.96	61.92	68.2	-6.28
5725	63.69	PK	167	1.6	V	-1.96	61.73	68.2	-6.47
5745	62.90	PK	191	2.2	H	-1.91	60.99	68.2	-7.21
5745	62.71	PK	320	1.3	V	-1.91	60.80	68.2	-7.40
11220	54.41	PK	197	2.2	H	8.33	62.74	74	-11.26
11220	40.87	AV	125	2.2	H	8.33	49.20	54	-4.80
11220	54.15	PK	36	1	V	8.33	62.48	74	-11.52
11220	40.10	AV	242	1	V	8.33	48.43	54	-5.57

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC160									
5570MHz									
5460	64.01	PK	14	2	H	-2.26	61.75	74	-12.25
5460	49.16	AV	14	2	H	-2.26	46.90	54	-7.10
5460	63.82	PK	33	1.8	V	-2.26	61.56	74	-12.44
5460	48.99	AV	33	1.8	V	-2.26	46.73	54	-7.27
5470	67.04	PK	312	1.1	H	-2.22	64.82	68.2	-3.38
5470	66.69	PK	27	2.4	V	-2.22	64.47	68.2	-3.73
5725	65.28	PK	135	1.8	H	-1.96	63.32	68.2	-4.88
5725	64.99	PK	78	2.4	V	-1.96	63.03	68.2	-5.17
5745	63.15	PK	173	1.4	H	-1.91	61.24	68.2	-6.96
5745	62.98	PK	353	1.5	V	-1.91	61.07	68.2	-7.13
11140	53.49	PK	268	1.6	H	8.82	62.31	74	-11.69
11140	39.18	AV	240	1.6	H	8.82	48.00	54	-6.00
11140	53.06	PK	42	1.9	V	8.82	61.88	74	-12.12
11140	38.67	AV	82	1.9	V	8.82	47.49	54	-6.51

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX20(worst case 242Tone)									
5500MHz									
5460	62.48	PK	150	1.8	H	-2.26	60.22	74	-13.78
5460	48.17	AV	150	1.8	H	-2.26	45.91	54	-8.09
5460	62.31	PK	171	2	V	-2.26	60.05	74	-13.95
5460	48.03	AV	171	2	V	-2.26	45.77	54	-8.23
5470	63.78	PK	203	1.3	H	-2.22	61.56	68.2	-6.64
5470	63.56	PK	300	1.5	V	-2.22	61.34	68.2	-6.86
11000	55.76	PK	32	1.6	H	9.67	65.43	74	-8.57
11000	42.97	AV	70	1.6	H	9.67	52.64	54	-1.36
11000	54.13	PK	316	2.1	V	9.67	63.80	74	-10.20
11000	40.48	AV	75	2.1	V	9.67	50.15	54	-3.85
5580MHz									
11160	56.30	PK	196	1.9	H	8.68	64.98	74	-9.02
11160	43.61	AV	170	1.9	H	8.68	52.29	54	-1.71
11160	55.83	PK	49	1.4	V	8.68	64.51	74	-9.49
11160	42.52	AV	273	1.4	V	8.68	51.20	54	-2.80
5700MHz									
5725	64.55	PK	321	2.5	H	-1.96	62.59	68.2	-5.61
5725	64.27	PK	208	1.2	V	-1.96	62.31	68.2	-5.89
5745	62.71	PK	142	2.4	H	-1.91	60.80	68.2	-7.40
5745	62.53	PK	176	2.4	V	-1.91	60.62	68.2	-7.58
11400	57.51	PK	303	1.3	H	7.26	64.77	74	-9.23
11400	44.72	AV	218	1.3	H	7.26	51.98	54	-2.02
11400	56.66	PK	66	1.2	V	7.26	63.92	74	-10.08
11400	42.85	AV	16	1.2	V	7.26	50.11	54	-3.89

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX40(worst case 484Tone)									
5510MHz									
5460	63.19	PK	293	1.9	H	-2.26	60.93	74	-13.07
5460	48.42	AV	293	1.9	H	-2.26	46.16	54	-7.84
5460	63.05	PK	292	1.1	V	-2.26	60.79	74	-13.21
5460	48.27	AV	292	1.1	V	-2.26	46.01	54	-7.99
5470	66.42	PK	337	2.5	H	-2.22	64.20	68.2	-4.00
5470	66.09	PK	150	1.6	V	-2.22	63.87	68.2	-4.33
11020	54.91	PK	213	1.2	H	9.57	64.48	74	-9.52
11020	41.28	AV	313	1.2	H	9.57	50.85	54	-3.15
11020	53.76	PK	303	1.8	V	9.57	63.33	74	-10.67
11020	39.62	AV	337	1.8	V	9.57	49.19	54	-4.81
5550MHz									
11100	54.37	PK	52	1.7	H	9.12	63.49	74	-10.51
11100	40.68	AV	232	1.7	H	9.12	49.80	54	-4.20
11100	53.44	PK	201	2	V	9.12	62.56	74	-11.44
11100	39.39	AV	147	2	V	9.12	48.51	54	-5.49
5670MHz									
5725	64.20	PK	34	1.2	H	-1.96	62.24	68.2	-5.96
5725	63.99	PK	313	1.4	V	-1.96	62.03	68.2	-6.17
5745	63.00	PK	334	2	H	-1.91	61.09	68.2	-7.11
5745	62.78	PK	100	2.2	V	-1.91	60.87	68.2	-7.33
11340	56.25	PK	34	2.1	H	7.67	63.92	74	-10.08
11340	42.70	AV	105	2.1	H	7.67	50.37	54	-3.63
11340	55.51	PK	160	1.4	V	7.67	63.18	74	-10.82
11340	41.39	AV	216	1.4	V	7.67	49.06	54	-4.94

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX80(worst case 996Tone)									
5530MHz									
5460	64.09	PK	248	2.3	H	-2.26	61.83	74	-12.17
5460	49.17	AV	248	2.3	H	-2.26	46.91	54	-7.09
5460	63.91	PK	108	1.6	V	-2.26	61.65	74	-12.35
5460	49.02	AV	108	1.6	V	-2.26	46.76	54	-7.24
5470	66.64	PK	317	2.2	H	-2.22	64.42	68.2	-3.78
5470	66.36	PK	281	1.3	V	-2.22	64.14	68.2	-4.06
11060	53.13	PK	326	1.9	H	9.37	62.50	74	-11.50
11060	39.74	AV	159	1.9	H	9.37	49.11	54	-4.89
11060	52.18	PK	182	1.4	V	9.37	61.55	74	-12.45
11060	38.89	AV	331	1.4	V	9.37	48.26	54	-5.74
5610MHz									
5725	64.18	PK	146	1.6	H	-1.96	62.22	68.2	-5.98
5725	64.00	PK	230	1.4	V	-1.96	62.04	68.2	-6.16
5745	62.78	PK	210	1.9	H	-1.91	60.87	68.2	-7.33
5745	62.62	PK	305	2.3	V	-1.91	60.71	68.2	-7.49
11220	54.57	PK	88	1	H	8.33	62.90	74	-11.10
11220	41.16	AV	72	1	H	8.33	49.49	54	-4.51
11220	53.65	PK	198	1.3	V	8.33	61.98	74	-12.02
11220	40.28	AV	252	1.3	V	8.33	48.61	54	-5.39

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX160(worst case 2*996Tone)									
5570MHz									
5460	64.32	PK	125	1.7	H	-2.26	62.06	74	-11.94
5460	49.40	AV	125	1.7	H	-2.26	47.14	54	-6.86
5460	64.13	PK	233	2.1	V	-2.26	61.87	74	-12.13
5460	49.21	AV	233	2.1	V	-2.26	46.95	54	-7.05
5470	67.34	PK	88	1.1	H	-2.22	65.12	68.2	-3.08
5470	67.12	PK	302	2.3	V	-2.22	64.90	68.2	-3.30
5725	65.18	PK	202	1.4	H	-1.96	63.22	68.2	-4.98
5725	64.97	PK	103	2.4	V	-1.96	63.01	68.2	-5.19
5745	63.20	PK	22	1	H	-1.91	61.29	68.2	-6.91
5745	63.04	PK	227	1.9	V	-1.91	61.13	68.2	-7.07
11140	53.55	PK	138	1.1	H	8.82	62.37	74	-11.63
11140	39.48	AV	275	1.1	H	8.82	48.30	54	-5.70
11140	53.17	PK	218	1.7	V	8.82	61.99	74	-12.01
11140	38.96	AV	222	1.7	V	8.82	47.78	54	-6.22

5725-5850 MHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A									
5745MHz									
5650	63.76	PK	108	1.7	H	-1.95	61.81	68.2	-6.39
5700	64.35	PK	278	1.5	H	-2.02	62.33	105.2	-42.87
5720	65.59	PK	141	1.2	H	-1.97	63.62	110.8	-47.18
5725	68.00	PK	359	2.3	H	-1.96	66.04	122.2	-56.16
5650	63.62	PK	13	1.6	V	-1.95	61.67	68.2	-6.53
5700	64.16	PK	19	2.2	V	-2.02	62.14	105.2	-43.06
5720	65.23	PK	238	2.1	V	-1.97	63.26	110.8	-47.54
5725	67.09	PK	82	2.3	V	-1.96	65.13	122.2	-57.07
11490	57.99	PK	140	2.3	H	6.63	64.62	74	-9.38
11490	44.78	AV	86	2.3	H	6.63	51.41	54	-2.59
11490	56.20	PK	13	1	V	6.63	62.83	74	-11.17
11490	42.77	AV	214	1	V	6.63	49.40	54	-4.60
5785MHz									
11570	57.83	PK	274	2.5	H	6.59	64.42	74	-9.58
11570	44.75	AV	128	2.5	H	6.59	51.34	54	-2.66
11570	56.67	PK	64	2.2	V	6.59	63.26	74	-10.74
11570	43.48	AV	204	2.2	V	6.59	50.07	54	-3.93
5825MHz									
5850	67.37	PK	2	2	H	-1.81	65.56	122.2	-56.64
5855	66.47	PK	121	1.4	H	-1.82	64.65	110.8	-46.15
5875	65.73	PK	138	2	H	-1.84	63.89	105.2	-41.31
5925	65.26	PK	60	1.4	H	-1.82	63.44	68.2	-4.76
5850	66.98	PK	12	2.4	V	-1.81	65.17	122.2	-57.03
5855	66.18	PK	92	1.8	V	-1.82	64.36	110.8	-46.44
5875	65.44	PK	276	1.1	V	-1.84	63.60	105.2	-41.60
5925	65.11	PK	3	1.5	V	-1.82	63.29	68.2	-4.91
11650	56.82	PK	49	1.5	H	6.77	63.59	74	-10.41
11650	43.51	AV	68	1.5	H	6.77	50.28	54	-3.72
11650	55.69	PK	116	2.5	V	6.77	62.46	74	-11.54
11650	42.37	AV	98	2.5	V	6.77	49.14	54	-4.86

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5745MHz									
5650	62.36	PK	344	1.1	H	-1.95	60.41	68.2	-7.79
5700	62.21	PK	177	1.9	H	-2.02	60.19	105.2	-45.01
5720	63.34	PK	81	2.2	H	-1.97	61.37	110.8	-49.43
5725	65.24	PK	21	1.6	H	-1.96	63.28	122.2	-58.92
5650	62.40	PK	166	2.5	V	-1.95	60.45	68.2	-7.75
5700	61.83	PK	148	2	V	-2.02	59.81	105.2	-45.39
5720	62.06	PK	335	1.2	V	-1.97	60.09	110.8	-50.71
5725	63.44	PK	121	1.6	V	-1.96	61.48	122.2	-60.72
11490	57.41	PK	256	1.9	H	6.63	64.04	74	-9.96
11490	42.89	AV	107	1.9	H	6.63	49.52	54	-4.48
11490	57.12	PK	230	1.6	V	6.63	63.75	74	-10.25
11490	42.29	AV	132	1.6	V	6.63	48.92	54	-5.08
5785MHz									
11570	57.91	PK	64	1	H	6.59	64.50	74	-9.50
11570	44.06	AV	73	1	H	6.59	50.65	54	-3.35
11570	57.06	PK	237	1.5	V	6.59	63.65	74	-10.35
11570	42.31	AV	162	1.5	V	6.59	48.90	54	-5.10
5825MHz									
5850	63.08	PK	275	2.4	H	-1.81	61.27	122.2	-60.93
5855	62.90	PK	97	1.8	H	-1.82	61.08	110.8	-49.72
5875	62.70	PK	12	2.3	H	-1.84	60.86	105.2	-44.34
5925	62.57	PK	29	1.5	H	-1.82	60.75	68.2	-7.45
5850	63.80	PK	301	2.3	V	-1.81	61.99	122.2	-60.21
5855	63.48	PK	29	1.7	V	-1.82	61.66	110.8	-49.14
5875	63.40	PK	13	1.6	V	-1.84	61.56	105.2	-43.64
5925	63.00	PK	330	1.2	V	-1.82	61.18	68.2	-7.02
11650	57.73	PK	95	1	H	6.77	64.50	74	-9.50
11650	43.15	AV	228	1	H	6.77	49.92	54	-4.08
11650	56.49	PK	131	1.3	V	6.77	63.26	74	-10.74
11650	42.00	AV	311	1.3	V	6.77	48.77	54	-5.23

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5755MHz									
5650	62.33	PK	360	1.9	H	-1.95	60.38	68.2	-7.82
5700	63.57	PK	328	1.8	H	-2.02	61.55	105.2	-43.65
5720	65.49	PK	20	1.4	H	-1.97	63.52	110.8	-47.28
5725	65.54	PK	236	2.5	H	-1.96	63.58	122.2	-58.62
5650	62.22	PK	346	1.6	V	-1.95	60.27	68.2	-7.93
5700	63.47	PK	70	1.9	V	-2.02	61.45	105.2	-43.75
5720	65.54	PK	298	1.3	V	-1.97	63.57	110.8	-47.23
5725	65.52	PK	191	2	V	-1.96	63.56	122.2	-58.64
11510	58.46	PK	104	2.3	H	6.59	65.05	74	-8.95
11510	43.78	AV	149	2.3	H	6.59	50.37	54	-3.63
11510	57.39	PK	263	1.8	V	6.59	63.98	74	-10.02
11510	42.29	AV	186	1.8	V	6.59	48.88	54	-5.12
5795MHz									
5850	63.47	PK	127	1.3	H	-1.81	61.66	122.2	-60.54
5855	63.68	PK	222	2.5	H	-1.82	61.86	110.8	-48.94
5875	62.64	PK	250	1.5	H	-1.84	60.80	105.2	-44.40
5925	62.80	PK	9	2.2	H	-1.82	60.98	68.2	-7.22
5850	63.53	PK	339	2.4	V	-1.81	61.72	122.2	-60.48
5855	63.89	PK	243	1.2	V	-1.82	62.07	110.8	-48.73
5875	62.61	PK	36	1.1	V	-1.84	60.77	105.2	-44.43
5925	62.73	PK	273	1.4	V	-1.82	60.91	68.2	-7.29
11590	58.58	PK	156	2.1	H	6.57	65.15	74	-8.85
11590	43.90	AV	209	2.1	H	6.57	50.47	54	-3.53
11590	57.26	PK	36	2.4	V	6.57	63.83	74	-10.17
11590	42.54	AV	221	2.4	V	6.57	49.11	54	-4.89

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5745MHz									
5650	62.25	PK	144	1.3	H	-1.95	60.30	68.2	-7.90
5700	63.52	PK	57	1.6	H	-2.02	61.50	105.2	-43.70
5720	65.61	PK	112	1.2	H	-1.97	63.64	110.8	-47.16
5725	67.00	PK	333	1.3	H	-1.96	65.04	122.2	-57.16
5650	62.17	PK	335	1.2	V	-1.95	60.22	68.2	-7.98
5700	63.29	PK	206	1.4	V	-2.02	61.27	105.2	-43.93
5720	65.45	PK	140	1.3	V	-1.97	63.48	110.8	-47.32
5725	66.50	PK	11	1.3	V	-1.96	64.54	122.2	-57.66
11490	57.96	PK	334	2	H	6.63	64.59	74	-9.41
11490	43.76	AV	344	2	H	6.63	50.39	54	-3.61
11490	57.10	PK	86	1.9	V	6.63	63.73	74	-10.27
11490	42.01	AV	61	1.9	V	6.63	48.64	54	-5.36
5785MHz									
11570	58.29	PK	114	1.1	H	6.59	64.88	74	-9.12
11570	43.90	AV	347	1.1	H	6.59	50.49	54	-3.51
11570	57.49	PK	299	2.4	V	6.59	64.08	74	-9.92
11570	42.40	AV	43	2.4	V	6.59	48.99	54	-5.01
5825MHz									
5850	63.54	PK	196	2.3	H	-1.81	61.73	122.2	-60.47
5855	63.91	PK	347	1.5	H	-1.82	62.09	110.8	-48.71
5875	62.75	PK	61	2	H	-1.84	60.91	105.2	-44.29
5925	62.67	PK	267	1.1	H	-1.82	60.85	68.2	-7.35
5850	63.65	PK	50	1.4	V	-1.81	61.84	122.2	-60.36
5855	63.73	PK	304	1.6	V	-1.82	61.91	110.8	-48.89
5875	62.51	PK	189	1.8	V	-1.84	60.67	105.2	-44.53
5925	62.69	PK	314	2	V	-1.82	60.87	68.2	-7.33
11650	57.88	PK	202	1.8	H	6.77	64.65	74	-9.35
11650	43.46	AV	99	1.8	H	6.77	50.23	54	-3.77
11650	57.03	PK	35	1.8	V	6.77	63.80	74	-10.20
11650	41.79	AV	294	1.8	V	6.77	48.56	54	-5.44

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5755MHz									
5650	62.37	PK	149	2.1	H	-1.95	60.42	68.2	-7.78
5700	62.63	PK	6	2.1	H	-2.02	60.61	105.2	-44.59
5720	63.40	PK	315	1.7	H	-1.97	61.43	110.8	-49.37
5725	63.55	PK	352	1.8	H	-1.96	61.59	122.2	-60.61
5650	62.27	PK	135	1.8	V	-1.95	60.32	68.2	-7.88
5700	62.30	PK	294	1.8	V	-2.02	60.28	105.2	-44.92
5720	63.21	PK	156	2	V	-1.97	61.24	110.8	-49.56
5725	63.32	PK	99	2.4	V	-1.96	61.36	122.2	-60.84
11510	58.04	PK	330	2.2	H	6.59	64.63	74	-9.37
11510	43.66	AV	105	2.2	H	6.59	50.25	54	-3.75
11510	57.06	PK	126	2.5	V	6.59	63.65	74	-10.35
11510	42.38	AV	207	2.5	V	6.59	48.97	54	-5.03
5795MHz									
5850	63.44	PK	303	1.9	H	-1.81	61.63	122.2	-60.57
5855	63.88	PK	295	2.4	H	-1.82	62.06	110.8	-48.74
5875	62.73	PK	331	2.3	H	-1.84	60.89	105.2	-44.31
5925	62.87	PK	185	2.2	H	-1.82	61.05	68.2	-7.15
5850	63.51	PK	354	1.5	V	-1.81	61.70	122.2	-60.50
5855	63.87	PK	311	1.5	V	-1.82	62.05	110.8	-48.75
5875	62.78	PK	142	2	V	-1.84	60.94	105.2	-44.26
5925	62.54	PK	341	2	V	-1.82	60.72	68.2	-7.48
11590	58.55	PK	203	2.4	H	6.57	65.12	74	-8.88
11590	43.90	AV	218	2.4	H	6.57	50.47	54	-3.53
11590	57.65	PK	100	2.5	V	6.57	64.22	74	-9.78
11590	42.50	AV	79	2.5	V	6.57	49.07	54	-4.93

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5775MHz									
5650	62.57	PK	183	1	H	-1.95	60.62	68.2	-7.58
5700	63.17	PK	136	1.2	H	-2.02	61.15	105.2	-44.05
5720	65.53	PK	354	1.6	H	-1.97	63.56	110.8	-47.24
5725	66.69	PK	31	1.4	H	-1.96	64.73	122.2	-57.47
5650	62.39	PK	161	1.2	V	-1.95	60.44	68.2	-7.76
5700	63.58	PK	85	1.5	V	-2.02	61.56	105.2	-43.64
5720	65.41	PK	156	1.4	V	-1.97	63.44	110.8	-47.36
5725	66.83	PK	66	2.4	V	-1.96	64.87	122.2	-57.33
5850	63.78	PK	289	1.4	H	-1.81	61.97	122.2	-60.23
5855	63.80	PK	34	1.8	H	-1.82	61.98	110.8	-48.82
5875	62.58	PK	94	1.4	H	-1.84	60.74	105.2	-44.46
5925	62.69	PK	357	2.3	H	-1.82	60.87	68.2	-7.33
5850	63.81	PK	56	1.6	V	-1.81	62.00	122.2	-60.20
5855	63.59	PK	108	2.1	V	-1.82	61.77	110.8	-49.03
5875	62.79	PK	162	2	V	-1.84	60.95	105.2	-44.25
5925	62.87	PK	91	1.8	V	-1.82	61.05	68.2	-7.15
11550	57.18	PK	223	2	H	6.61	63.79	74	-10.21
11550	42.46	AV	256	2	H	6.61	49.07	54	-4.93
11550	56.27	PK	60	1.7	V	6.61	62.88	74	-11.12
11550	41.56	AV	174	1.7	V	6.61	48.17	54	-5.83

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX20(worst case 242Tone)									
5745MHz									
5650	62.54	PK	271	2.4	H	-1.95	60.59	68.2	-7.61
5700	63.45	PK	155	1.8	H	-2.02	61.43	105.2	-43.77
5720	65.22	PK	173	1	H	-1.97	63.25	110.8	-47.55
5725	65.44	PK	159	1.9	H	-1.96	63.48	122.2	-58.72
5650	62.18	PK	250	1.7	V	-1.95	60.23	68.2	-7.97
5700	63.53	PK	207	1.1	V	-2.02	61.51	105.2	-43.69
5720	65.29	PK	207	2.2	V	-1.97	63.32	110.8	-47.48
5725	65.17	PK	57	2.1	V	-1.96	63.21	122.2	-58.99
11490	57.53	PK	253	2.5	H	6.63	64.16	74	-9.84
11490	44.04	AV	214	2.5	H	6.63	50.67	54	-3.33
11490	57.29	PK	48	1.1	V	6.63	63.92	74	-10.08
11490	42.01	AV	96	1.1	V	6.63	48.64	54	-5.36
5785MHz									
11570	57.85	PK	8	2.4	H	6.59	64.44	74	-9.56
11570	43.86	AV	219	2.4	H	6.59	50.45	54	-3.55
11570	57.50	PK	35	1.6	V	6.59	64.09	74	-9.91
11570	42.46	AV	345	1.6	V	6.59	49.05	54	-4.95
5825MHz									
5850	63.76	PK	340	2.2	H	-1.81	61.95	122.2	-60.25
5855	63.69	PK	33	1.8	H	-1.82	61.87	110.8	-48.93
5875	62.59	PK	125	1.1	H	-1.84	60.75	105.2	-44.45
5925	62.56	PK	62	1.6	H	-1.82	60.74	68.2	-7.46
5850	63.78	PK	156	1.1	V	-1.81	61.97	122.2	-60.23
5855	63.59	PK	8	2.5	V	-1.82	61.77	110.8	-49.03
5875	62.90	PK	164	1.5	V	-1.84	61.06	105.2	-44.14
5925	62.97	PK	227	1.8	V	-1.82	61.15	68.2	-7.05
11650	57.61	PK	32	1.4	H	6.77	64.38	74	-9.62
11650	43.61	AV	25	1.4	H	6.77	50.38	54	-3.62
11650	56.92	PK	341	2.1	V	6.77	63.69	74	-10.31
11650	41.75	AV	127	2.1	V	6.77	48.52	54	-5.48

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX40(worst case 484Tone)									
5755MHz									
5650	62.27	PK	257	1.2	H	-1.95	60.32	68.2	-7.88
5700	62.35	PK	136	1.4	H	-2.02	60.33	105.2	-44.87
5720	63.24	PK	194	1.6	H	-1.97	61.27	110.8	-49.53
5725	63.17	PK	295	1.5	H	-1.96	61.21	122.2	-60.99
5650	62.48	PK	129	2.4	V	-1.95	60.53	68.2	-7.67
5700	62.31	PK	103	1.8	V	-2.02	60.29	105.2	-44.91
5720	63.21	PK	27	1.1	V	-1.97	61.24	110.8	-49.56
5725	63.26	PK	342	2.1	V	-1.96	61.30	122.2	-60.90
11510	58.41	PK	48	2.4	H	6.59	65.00	74	-9.00
11510	43.51	AV	327	2.4	H	6.59	50.10	54	-3.90
11510	57.13	PK	110	2	V	6.59	63.72	74	-10.28
11510	42.46	AV	24	2	V	6.59	49.05	54	-4.95
5795MHz									
5850	63.77	PK	316	2.2	H	-1.81	61.96	122.2	-60.24
5855	63.52	PK	4	1.3	H	-1.82	61.70	110.8	-49.10
5875	62.76	PK	90	2.2	H	-1.84	60.92	105.2	-44.28
5925	62.68	PK	96	1.1	H	-1.82	60.86	68.2	-7.34
5850	63.60	PK	27	1.4	V	-1.81	61.79	122.2	-60.41
5855	63.45	PK	96	2.3	V	-1.82	61.63	110.8	-49.17
5875	62.45	PK	200	1.7	V	-1.84	60.61	105.2	-44.59
5925	62.69	PK	14	1.6	V	-1.82	60.87	68.2	-7.33
11590	58.27	PK	21	1.4	H	6.57	64.84	74	-9.16
11590	43.84	AV	4	1.4	H	6.57	50.41	54	-3.59
11590	57.23	PK	317	1.5	V	6.57	63.80	74	-10.20
11590	42.48	AV	71	1.5	V	6.57	49.05	54	-4.95

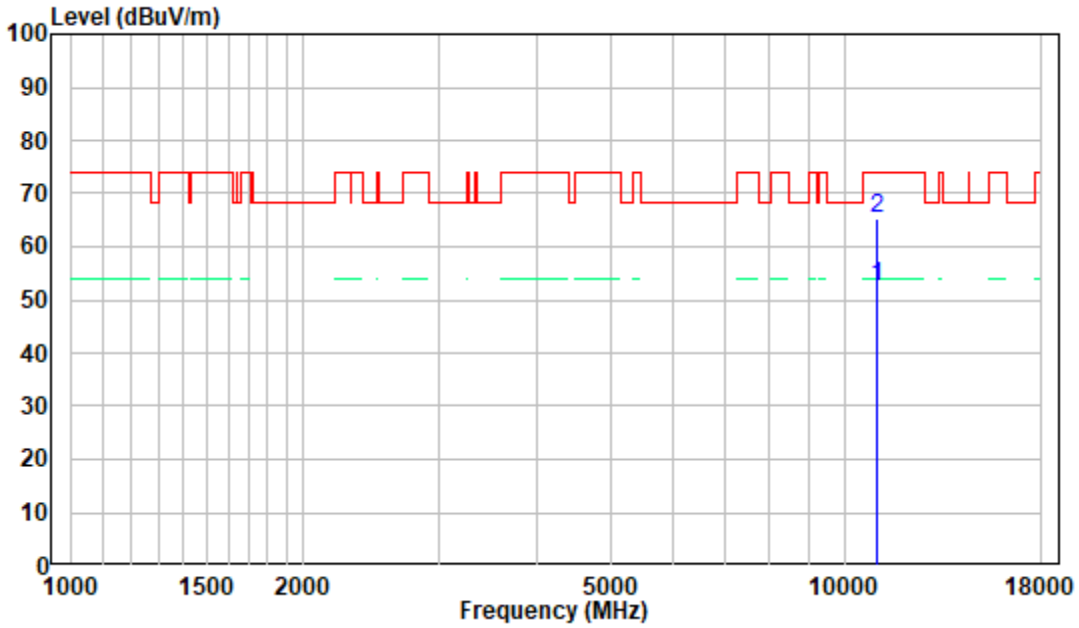
Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX80(worst case 996Tone)									
5775MHz									
5650	62.10	PK	79	1	H	-1.95	60.15	68.2	-8.05
5700	63.52	PK	21	2.5	H	-2.02	61.50	105.2	-43.70
5720	65.37	PK	265	1.5	H	-1.97	63.40	110.8	-47.40
5725	66.57	PK	220	1	H	-1.96	64.61	122.2	-57.59
5650	62.46	PK	233	1.3	V	-1.95	60.51	68.2	-7.69
5700	63.32	PK	164	2	V	-2.02	61.30	105.2	-43.90
5720	65.40	PK	79	2.3	V	-1.97	63.43	110.8	-47.37
5725	66.42	PK	271	1.9	V	-1.96	64.46	122.2	-57.74
5850	63.52	PK	22	1.8	H	-1.81	61.71	122.2	-60.49
5855	63.62	PK	73	2.4	H	-1.82	61.80	110.8	-49.00
5875	62.81	PK	167	2	H	-1.84	60.97	105.2	-44.23
5925	62.57	PK	199	2.3	H	-1.82	60.75	68.2	-7.45
5850	63.91	PK	241	2.4	V	-1.81	62.10	122.2	-60.10
5855	63.63	PK	137	2	V	-1.82	61.81	110.8	-48.99
5875	62.83	PK	180	2.2	V	-1.84	60.99	105.2	-44.21
5925	62.81	PK	260	1.6	V	-1.82	60.99	68.2	-7.21
11550	57.42	PK	260	1	H	6.61	64.03	74	-9.97
11550	42.25	AV	183	1	H	6.61	48.86	54	-5.14
11550	56.59	PK	99	2	V	6.61	63.20	74	-10.80
11550	41.56	AV	269	2	V	6.61	48.17	54	-5.83

Note:
Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude (Absolute Level) = Factor + Reading
Margin = Corrected. Amplitud**e** (Absolute Level) - Limit
The other spurious emission which is in the noise floor level was not recorded.

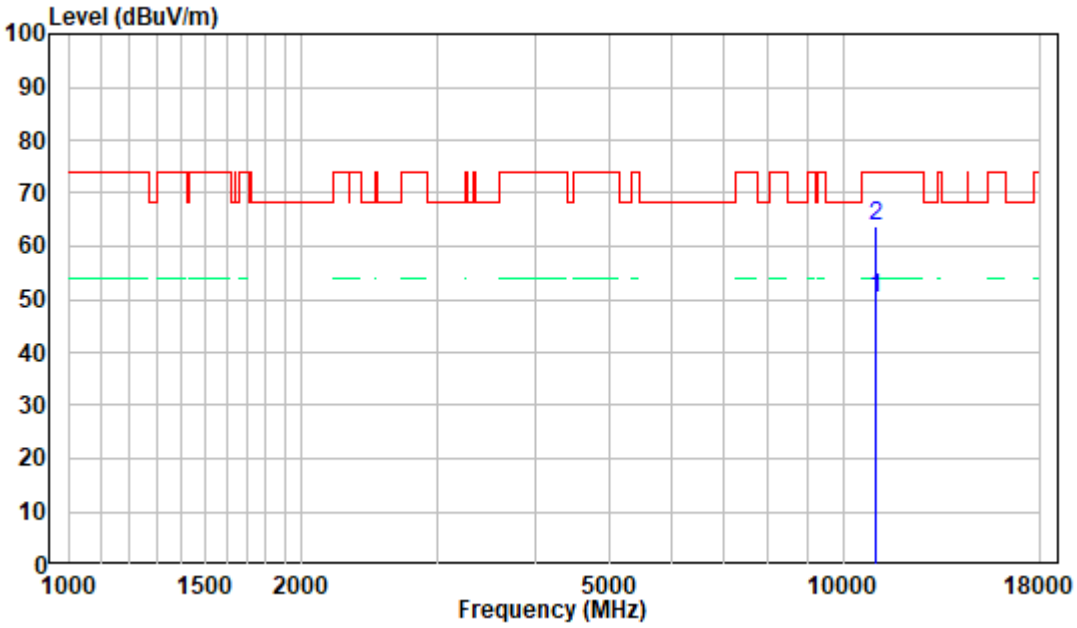
1 GHz - 18 GHz: (Pre-Scan plots)

802.11ax20, 5500MHz

Horizontal



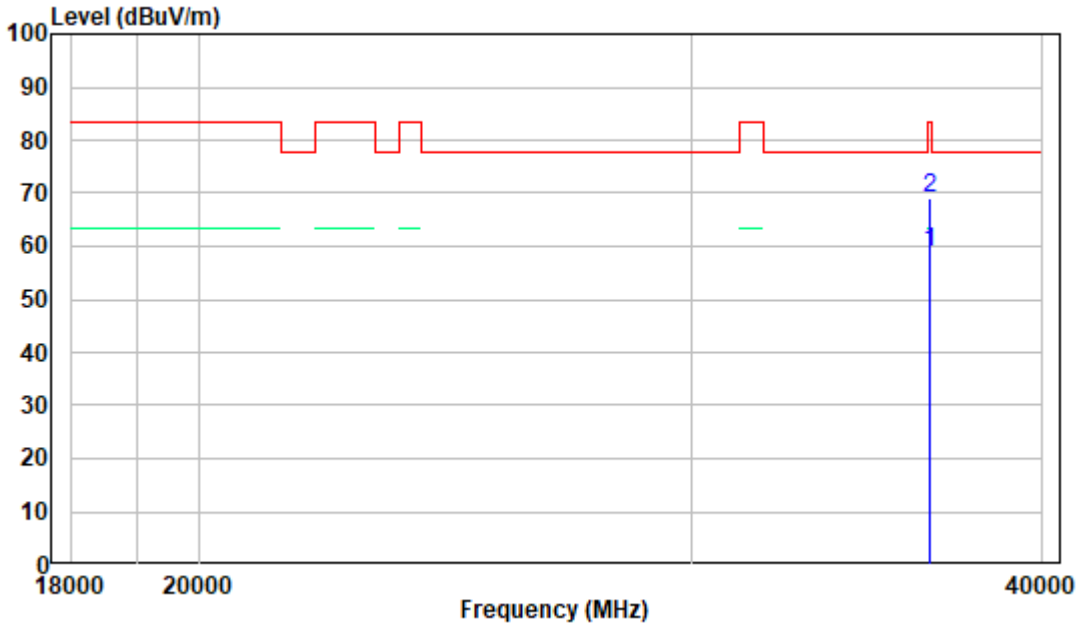
Vertical



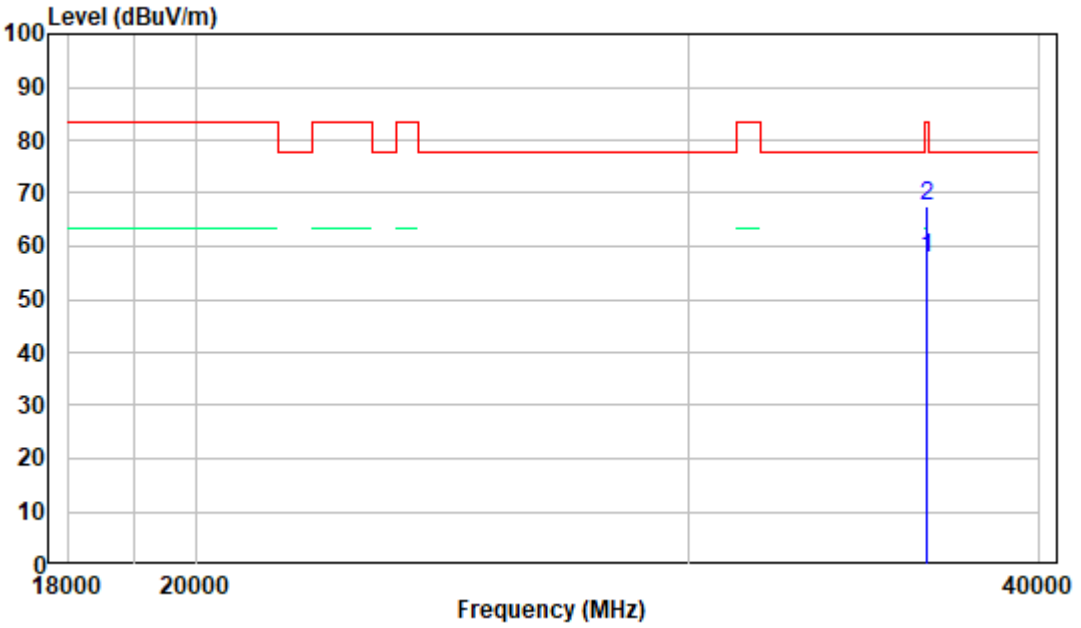
18-40GHz: (Pre-Scan plots)

802.11ax20, 5500MHz

Horizontal



Vertical



FCC §15.407(a),(e) – 26 dB & 6dB EMISSION BANDWIDTH

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

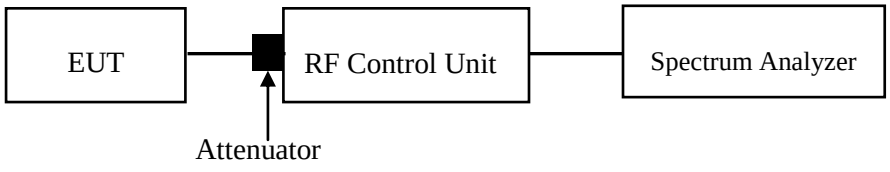
Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

Test Method: KDB789033 D02 Clause II.C

1. Emission Bandwidth (EBW)
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%.

2. **Minimum Emission Bandwidth for the band 5.725-5.85 GHz and 5.850-5.895 GHz**
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz and 5.850-5.895 GHz. The following procedure shall be used for measuring this bandwidth:
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 × RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Test Data

Environmental Conditions

Temperature:	22.1~24.9 ℃
Relative Humidity:	42~53 %
ATM Pressure:	101.0 kPa

The testing was performed by Nick Fang from 2023-02-07 to 2023-03-16.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix A.

FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

For an indoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm. Client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 30 dBm.

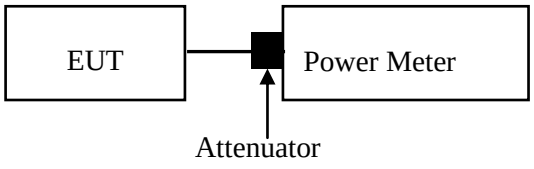
Test Procedure

Test Method: KDB789033 D02 Clause II.E.3.b).

a) Place the EUT on a bench and set it in transmitting mode.

b) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.

c) Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	24 ℃
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

The testing was performed by Nick Fang on 2023-02-07.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix B.

FCC §15.407(a) - POWER SPECTRAL DENSITY

For an indoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

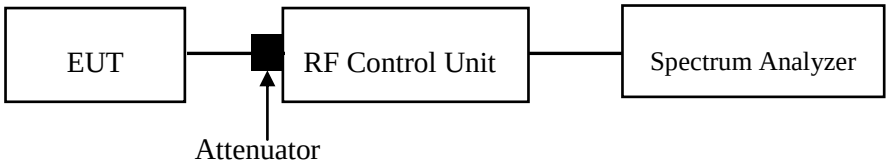
For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm. Client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 30 dBm.

Test Procedure

Test Method: KDB789033 D02 Clause II.F method SA-2.

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, 5.47-5.725 GHz, and 5.850-5.895 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). 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 section 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.



Test Data

Environmental Conditions

Temperature:	22.1~26.2 ℃
Relative Humidity:	42~58 %
ATM Pressure:	101.0 kPa

The testing was performed by Nick Fang from 2023-02-07 to 2023-05-10.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix C.

******* END OF REPORT *******