



RF TEST REPORT

Report No.: SET2022-06317

Product Name: LTE-Turbo BS

Model No.: BS6430E

FCC ID: 2AG32BS6430E

Applicant: Baicells Technologies Co., Ltd.

Address: 9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China

Dates of Testing: 03/11/2022 - 05/24/2022

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street,
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Test Report

Product: LTE-Turbo BS

Trade Name: Baicells

Applicant.....: Baicells Technologies Co., Ltd.

Applicant Address.....: 9-10F, 1stBldg., No.81BeiqingRoad, Haidian District,
Beijing, China

Manufacturer: Baicells Technologies Co., Ltd.

Manufacturer Address: 9-10F, 1stBldg., No.81BeiqingRoad, Haidian District,
Beijing, China

Test Standards: 47 CFR Part 15 Subpart E 15.407
ANSI C63.10-2013

Test Result.....: Pass

Tested by: Sun 2022.05.24

Sun, Test Engineer

Reviewed by: Chris You 2022.05.24

Chris You, Senior Engineer

Approved by: Shuangwen Zhang 2022.05.24

Shuangwen Zhang, Manager



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Change History		
Issue	Date	Reason for change
1.0	2022.05.24	First edition



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	LTE-Turbo BS
Model No.	pBS6430
EUT supports Radios application	WLAN5.0GHz 802.11a/n/ac/ax
Product Type	Fixed point-to-point access points
Modulation Type	802.11a/n: OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) 802.11ax: OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: up to 600 Mbps(4x4MIMO) 802.11ac: up to 3466.667 Mbps(4x4MIMO) 802.11ax: up to 4803.922 Mbps(4x4MIMO)
Frequency Range	UNII-1: 5150 ~ 5250MHz UNII-3: 5725 ~ 5850MHz
Channel Bandwidth	802.11a: 20MHz 802.11n: 20MHz/40MHz 802.11ac/ax: 20MHz/40MHz/80MHz
Channel Number	UNII-1: 4 for 802.11a, 802.11n(HT20), 802.11ac(VHT20), 802.11ax(HE20) 2 for 802.11n(HT40), 802.11ac(VHT40), 802.11ax(HE40) 1 for 802.11ac(VHT80), 802.11ax(HE80) UNII-3: 5 for 802.11a, 802.11n(HT20), 802.11ac(VHT20), 802.11ax(HE20) 2 for 802.11n(HT40), 802.11ac(VHT40)), 802.11ax(HE40) 1 for 802.11ac(VHT80), 802.11ax(HE80)
Antenna Type	Internal Antenna
Antenna Gain	Antenna 0/1/2/3: 13.0dBi
Output Power (Max.)	UNII-1: 28.54dBm UNII-3: 29.29dBm
AC adapter	Model: G0566-480-100 Input: AC100-240V, 50/60Hz, MAX 1.5A Output: DC 48.0V, 1.0A, 48W

1.2. Test Standards and Results

The objective of the report is to perform testing according to below standards for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E §15.407	Radio Frequency Devices
2	KDB789033 D02 General UNII Test Procedures New Rules v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Test detailed items/section required by FCC rules and results are as below:

No.	FCC Rule	Description	Result
1	15.203 15.407(a)	Antenna Requirement	PASS
2	15.407(a)(1)(iii) 15.407(a)(3)(i)	Maximum Conducted Output Power	PASS
3	15.407(a)(12)	26dB Emission Bandwidth 99% Occupied Bandwidth	PASS
4	15.407(e)	6dB Emission Bandwidth	PASS
5	15.407(a)(1)(iii) 15.407(a)(3)(i)	Power spectral density (PSD)	PASS
6	15.207	AC Power Line Conducted Emission	PASS
7	15.205 15.209 15.407(b)	Radiated Band Edges and Spurious Emission	PASS
8	15.407(g)	Frequency Stability	PASS

1.3. Channel List

Operated band in 5150 MHz ~ 5250MHz

4 channels are provided for 802.11a, 802.11n-HT20, 802.11ac-VHT20 and 802.11ax-HE20.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	44	5220
40	5200	48	5240

2 channels are provided for 802.11n-HT40, 802.11ac-VHT40 and 802.11ax-HE40.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	46	5230

1 channels are provided for 802.11ac-VHT80 and 802.11ax-HE80.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
42	5210	/	/

Operated band in 5725 MHz ~ 5850MHz

5 channels are provided for 802.11a, 802.11n-HT20, 802.11ac-VHT20, 802.11ax-HE20.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	161	5805
153	5765	165	5825
157	5785		

2 channels are provided for 802.11n-HT40, 802.11ac-VHT40, 802.11ax-HE40.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
151	5755	159	5795

1 channel are provided for 802.11ac-VHT80, 802.11ax-HE80.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
155	5775	/	/

1.4. Test environment and mode

During the measurement, the environmental conditions were within the listed ranges:

Operating Environment	
Temperature	15°C - 35°C
Humidity	30% -60%
Atmospheric Pressure	86KPa-106KPa
Test mode:	
Continuously transmitting mode	Keeps the EUT in 100% duty cycle transmitting with modulation in SISO, duty cycle factor is not required.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

For Frequency band 5150 ~ 5250 MHz				
Test Mode	Frequency(MHz)			Data rate
	LCH	MCH	HCH	
802.11a	5180	5220	5240	6 Mbps
802.11n-HT20/ac-VHT20/ax-HE20				MCS 0
802.11n-HT40/ac-VHT40/ax-HE40	5190	/	5230	MCS 0
802.11ac-VHT80/ax-HE80	5210	/	/	MCS 0

Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.

For Frequency band 5725 ~ 5850 MHz				
Test Mode	Frequency(MHz)			Data rate
	LCH	MCH	HCH	
802.11a	5745	5785	5825	6 Mbps
802.11n-HT20/ac-VHT20/ax-HE20				MCS 0
802.11n-HT40/ac-VHT40/ax-HE40	5755	/	5795	MCS 0
802.11ac-VHT80/ax-HE80	5775	/	/	MCS 0

Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation modes or test configuration modes mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	TX A SISO Mode
Mode 2	TX 802.11n-HT20 SISO Mode
Mode 3	TX 802.11n-HT40 SISO Mode
Mode 4	TX 802.11ac-VHT20 SISO Mode
Mode 5	TX 802.11ac-VHT40 SISO Mode
Mode 6	TX 802.11ac-VHT80 SISO Mode
Mode 7	TX 802.11ax-HE20 SISO Mode
Mode 8	TX 802.11ax-HE40 SISO Mode
Mode 9	TX 802.11ax-HE80 SISO Mode
Mode 10	TX 802.11n-HT20 4*4MIMO Mode
Mode 11	TX 802.11n-HT40 4*4MIMO Mode
Mode 12	TX 802.11ac-VHT20 4*4MIMO Mode
Mode 13	TX 802.11ac-VHT40 4*4MIMO Mode
Mode 14	TX 802.11ac-VHT80 4*4MIMO Mode
Mode 15	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 15	TX Mode
For Radiated Test	
Final Test Mode	Description
Mode 1	TX A SISO Mode
Mode 2	TX 802.11n-HT20 SISO Mode
Mode 3	TX 802.11n-HT40 SISO Mode
Mode 4	TX 802.11ac-VHT20 SISO Mode
Mode 5	TX 802.11ac-VHT40 SISO Mode
Mode 6	TX 802.11ac-VHT80 SISO Mode
Mode 7	TX 802.11ax-HE20 SISO Mode
Mode 8	TX 802.11ax-HE40 SISO Mode
Mode 9	TX 802.11ax-HE80 SISO Mode
Mode 10	TX 802.11n-HT20 4*4MIMO Mode
Mode 11	TX 802.11n-HT40 4*4MIMO Mode
Mode 12	TX 802.11ac-VHT20 4*4MIMO Mode
Mode 13	TX 802.11ac-VHT40 4*4MIMO Mode
Mode 14	TX 802.11ac-VHT80 4*4MIMO Mode

**1.5. Table for Supporting Units**

No.	Equipment	Brand Name	Model Name	Manufacturer	Serial No.	Note
1	Laptop	HP	TPN-Q221	HP	5CD14347QB	FCC DOC

1.6. Laboratory Facilities**FCC-Registration No.: 406086**

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until April 19th, 2023.

ISED Registration: 11185A-1

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Jun. 30th, 2023.

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

2. 47 CFR Part 15E Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 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.

For fixed point-to-point access points operating in the band 5.15-5.25 GHz, Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.

For fixed point-to-point U-NII devices operating in the band 5.725-5.850 GHz, may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.

2.1.2. Antenna Information

Antenna Category: Internal Antenna uncorrelated with each other antenna

A internal Antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

No.	EUT	Ant. Type	Operating frequency range	Antenna No.	Ant. Gain
1	LTE-Turbo BS	Internal	UNII-1, UNII-3	ANT 0/1/2/3	13.0dBi

2.1.3. Result: comply

The EUT has four permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Maximum Conducted Output Power

2.2.1. Limit of Maximum Conducted Output Power

FCC Part 15.407(a)

The maximum conducted output power should not exceed:

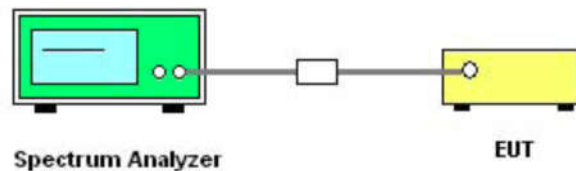
Band	EUT Category	Limit
U-NII-1	<input type="checkbox"/> Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p \leq 125mW(21dBm) at any elevation angle above 30 degrees as measured from the horizon)
	<input checked="" type="checkbox"/> Fixed point-to-point Access device	1 Watt (30 dBm)
	<input type="checkbox"/> Indoor Access Point	1 Watt (30 dBm)
	<input type="checkbox"/> Mobile and portable client device	250mW (24 dBm)
U-NII-3	<input checked="" type="checkbox"/>	1 Watt (30 dBm)

Note: B* is the 26 dB emission bandwidth in MHz.

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup



2.2.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.E.2.b and ANSI C63.10-2013 Section 12.3.2.2.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Power is calculated by integrating over the spectrum of the entire 99% OBW signal using the instrument's band power measurement feature.
4. Set span to encompass the entire 99% OBW of the signal.
5. Set RBW = 1MHz, VBW \geq 3MHz, Sweep time = Auto, Detector = power averaging (RMS).
6. Number of points in sweep $\geq 2 \times$ span / RBW.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Replace the EUT center frequency and repeat steps 3~7.



2.2.5. Test Results of Maximum Conducted Output Power

Please refer to APPENDIX A for detail

2.3. Power spectral density (PSD)

2.3.1. Limit of Power Spectral Density

FCC Part 15.407(a)

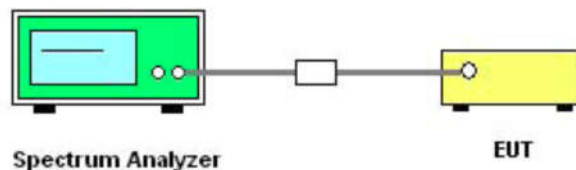
The maximum power spectral density should not exceed:

Band	EUT Category	Limit
U-NII-1	<input type="checkbox"/> Outdoor Access Point	17 dBm/MHz
	<input checked="" type="checkbox"/> Fixed point-to-point Access device	
	<input type="checkbox"/> Indoor Access Point	
	<input type="checkbox"/> Mobile and portable client device	11 dBm/MHz
U-NII-3	<input checked="" type="checkbox"/>	30dBm/500kHz

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.F and ANSI C63.10-2013 Section 12.5.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set span to encompass the entire 99% OBW of the signal.
4. For U-NII-1 Band: Set RBW = 1MHz, VBW \geq 3MHz, Sweep time = Auto, Detector = power averaging (RMS).
5. For U-NII-3 Band: Set RBW = 500kHz, VBW \geq 3MHz, Sweep time = Auto, Detector = power averaging (RMS).
6. Number of points in sweep $\geq 2 \times$ span / RBW.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Use the peak search function on the instrument to find the peak of the spectrum.
9. Replace the EUT center frequency and repeat steps 3~8.



2.3.5. Test Result of Power Spectral Density

Please refer to APPENDIX A for detail

2.4. Emission Bandwidth and Occupied Bandwidth

2.4.1. Limit of Emission Bandwidth and Occupied Bandwidth

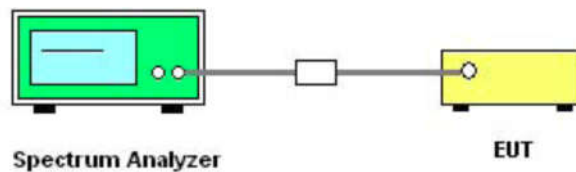
26dB Emission Bandwidth and 99% Occupied Bandwidth no Bandwidth limit.

The minimum 6dB bandwidth of U-NII-3 shall be at least 500 kHz.

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Description



2.4.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.C.D and ANSI C63.10-2013 Section 12.4.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Use the spectrum analyzer “Channel Bandwidth” function to easurement the 26dB EBW, 6dB EBW and 99% OBW.
4. Set center frequency to the nominal EUT channel center frequency.
5. Set span = 1.5 times to 5.0 times the OBW or EBW.
6. For 26dB EBW and 99% OBW Measurement:
Set RBW = approximately 1% EBW or 1.5 times to 5.0 times the OBW, $VBW \geq 3 \times RBW$.
7. For 6dB EBW Measurement:
Set RBW =100kHz, $VBW \geq 3 \times RBW$.
8. Set Detector = Peak, Trace mode = max hold and Sweep time = auto couple.
9. Allow the trace to stabilize.
10. Replace the EUT center frequency and repeat steps 3~9.



2.4.5. Test Results of Emission Bandwidth and Occupied Bandwidth

Please refer to APPENDIX A for detail

2.5. Frequency Stability

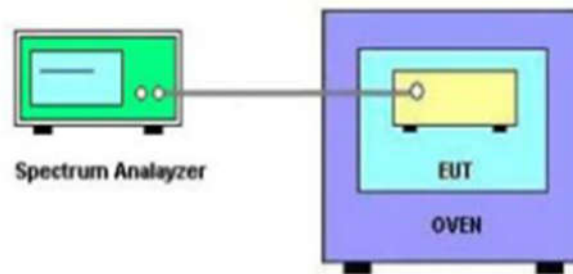
2.5.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

2.5.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.5.3. Test Setup



2.5.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.A.3 and ANSI C63.10-2013 Section 6.8.
2. The EUT is installed in an environment test chamber with external power source, was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set the chamber to operate at 50°C and external power source to output at nominal voltage of EUT.
5. A sufficient stabilization period at each temperatures in used prior to each frequency measurement.
6. The test shall be performed under -30°C to 50°C and 85% to 115% of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
7. Replace the EUT center frequency and repeat steps 3~6.



2.5.5. Test Result of Frequency Stability

Please refer to APPENDIX A for detail

2.6. Radiated Band Edge and Spurious Emission

2.6.1. Limit of Radiated Band Edges and Spurious Emission

Radiated emission which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level ($\mu\text{V/m}$).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

FCC Part 15.407(b)			
Frequency Band (MHz)	Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength @3m (dB $\mu\text{V/m}$)
5150 - 5250	Outside of the 5.15~5.35 GHz	-27	68.2
5725 - 5850	< 5650	-27	68.2
	5650~5700	-27~10	68.2~105.2
	5700~5720	10~15.6	105.2~110.8
	5720~5725	15.6~27	110.8~122.2
	5850~5855	27~15.6	122.2~110.8
	5855~5875	15.6~10	110.8~105.2
	5875~5925	10~-27	105.2~68.2
	> 5925	-27	68.2

Note:

- 1) $\text{EIRP}[\text{dBm}] = \text{E}[\text{dB}\mu\text{V/m}] + 20 \log(d[\text{m}]) - 104.77$, d is the measurement distance in m.
- 2) $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 68.2 \text{ dBuV/m}$, for $\text{EIRP}[\text{dBm}] = -27\text{dBm}$.
 $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 105.2 \text{ dBuV/m}$, for $\text{EIRP}[\text{dBm}] = 10\text{dBm}$.
 $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 110.8 \text{ dBuV/m}$, for $\text{EIRP}[\text{dBm}] = 15.6\text{dBm}$.
 $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 122.2 \text{ dBuV/m}$, for $\text{EIRP}[\text{dBm}] = 27\text{dBm}$.



Applicable To	Limit	
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	Field Strength at 3m	
	PK: 68.2(dBµV/m)	AV: 54 (dBµV/m)

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

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

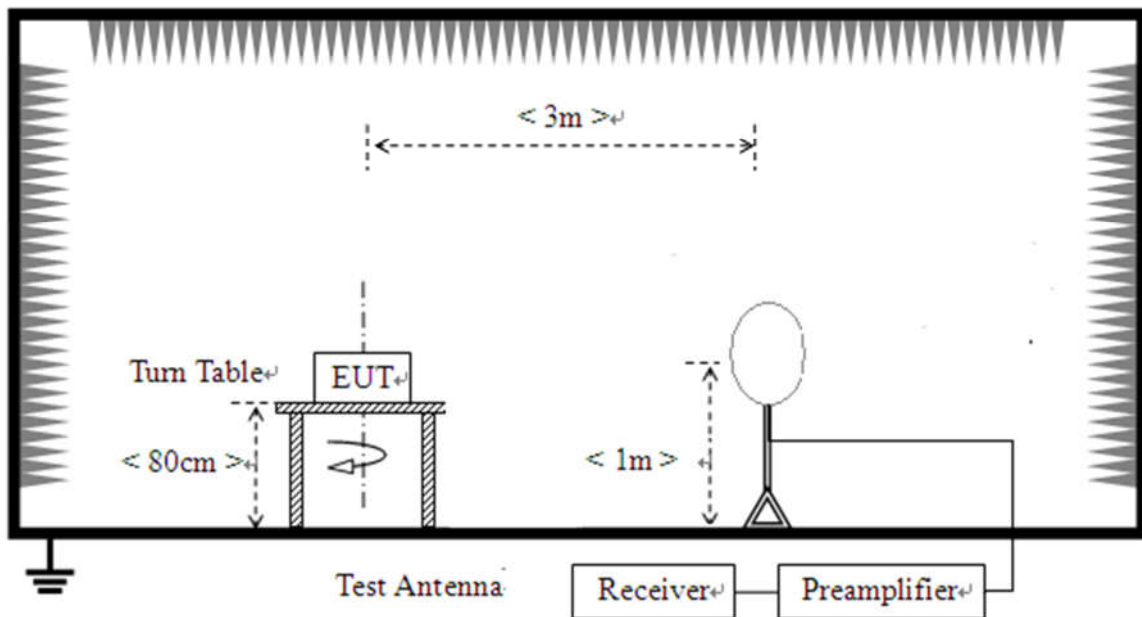
Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
²Above 38.6.

2.6.2. Measuring Instruments

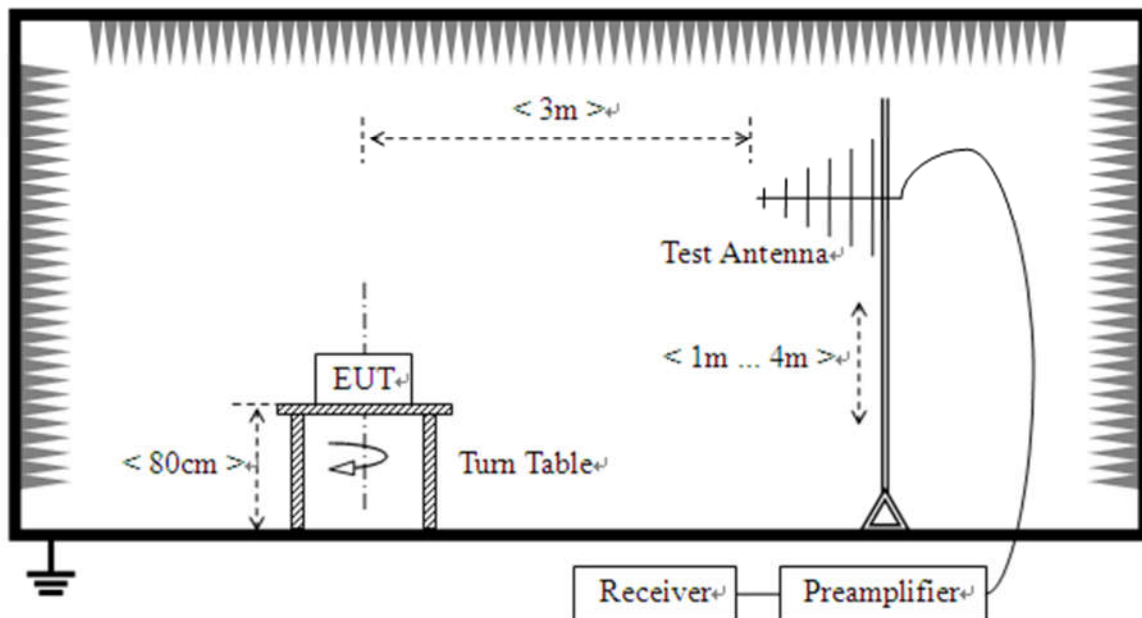
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

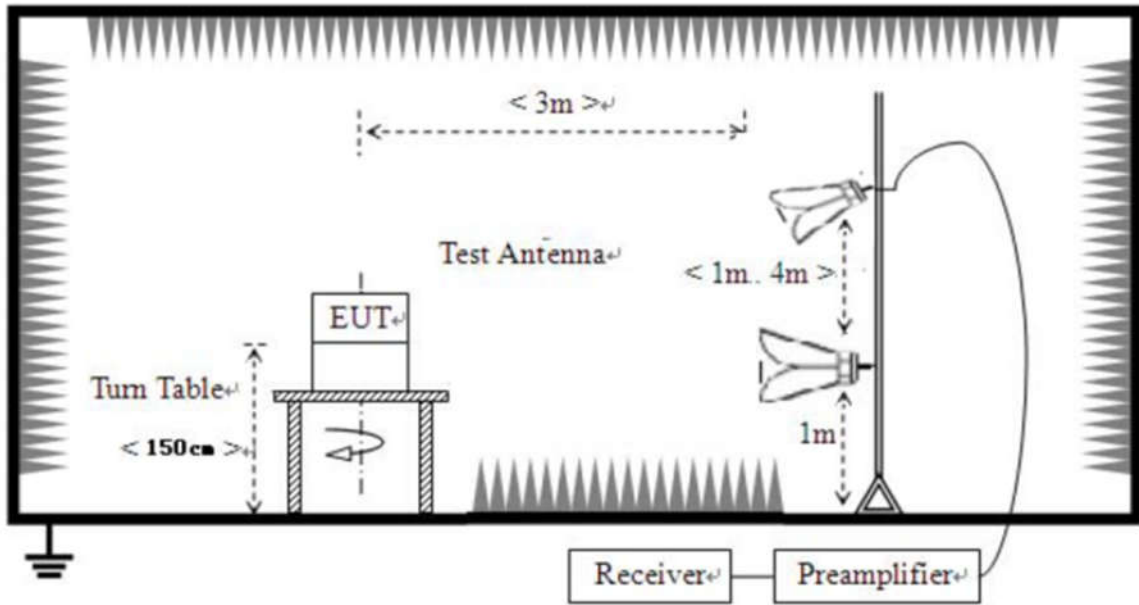
For radiated emissions from 9 kHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.6.4. Test Procedures

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

Note:

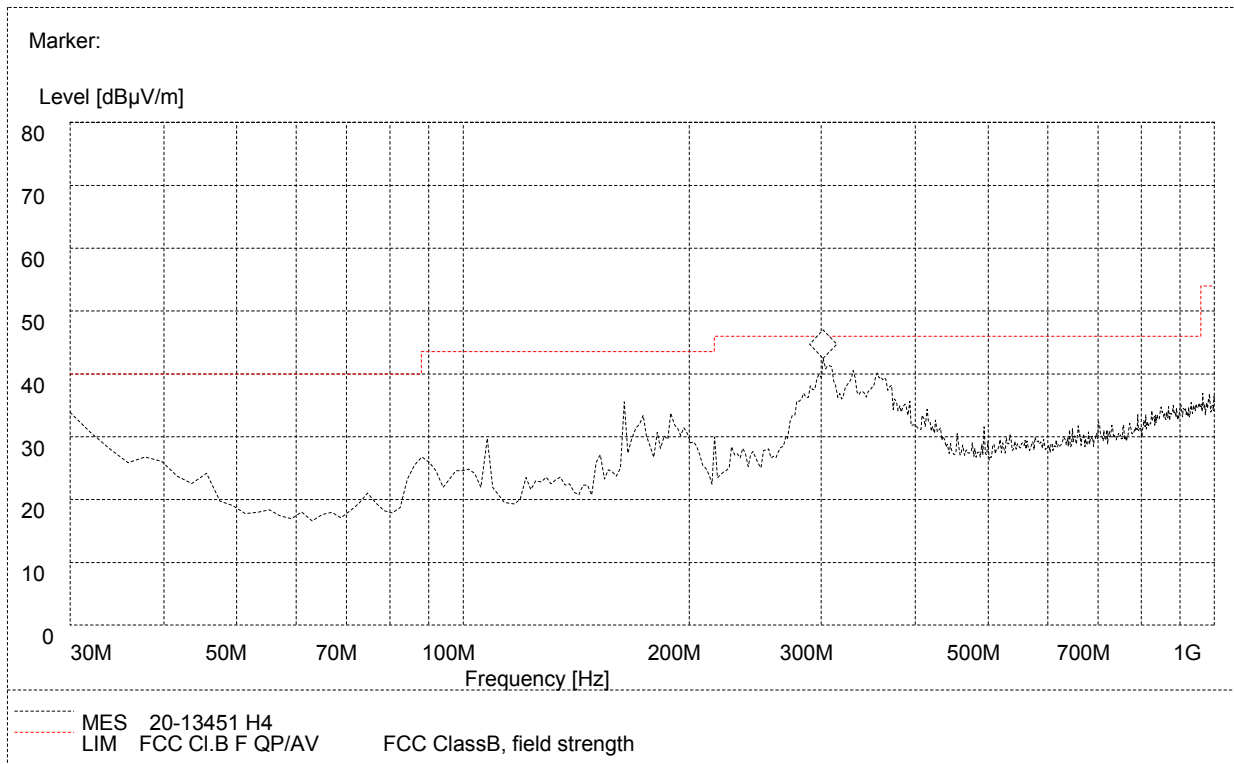
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. Only worst-Case mode data provide here, 802.11a (20MHz) 5180MHz for Below 1GHz.

2.6.5. Test Result of Radiated Band Edge and Spurious Emission

For 9 kHz to 30MHz

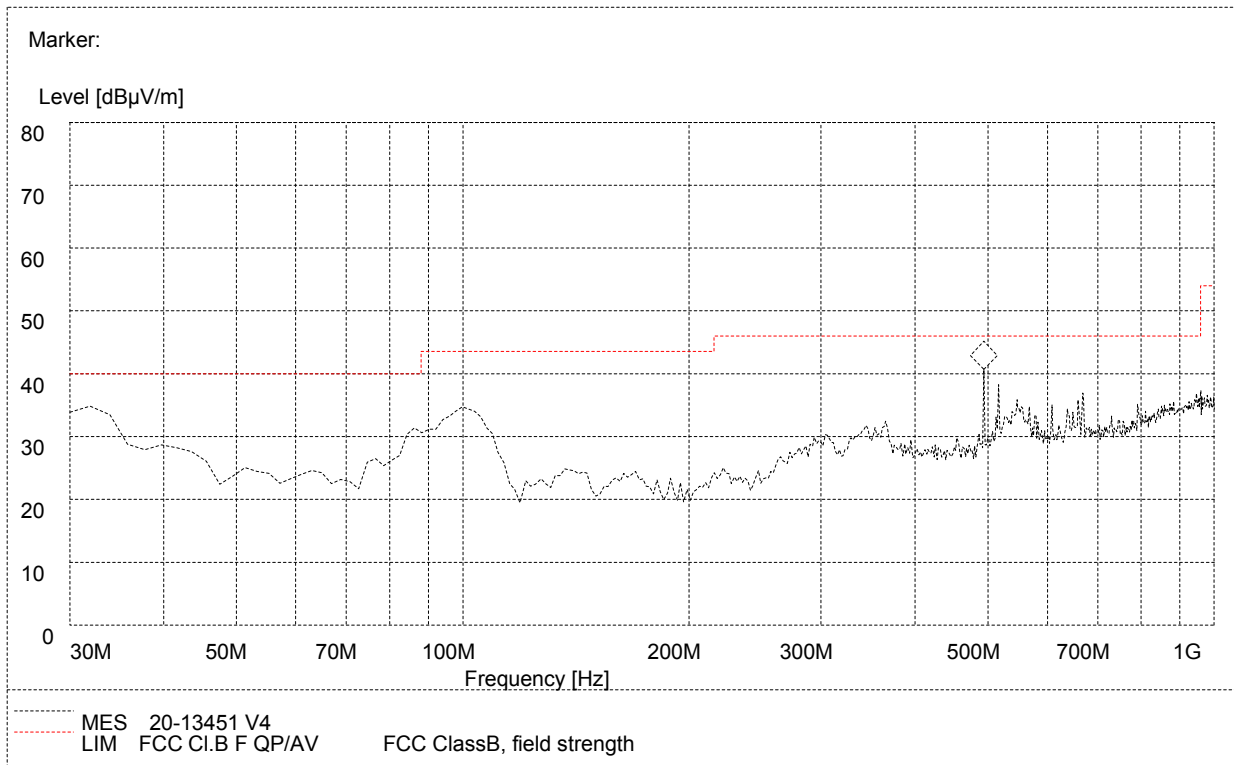
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz



30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Corr. Factor (dB/m)	Antenna height (cm)	Limit (dBµV/m)	Margin	Antenna	Verdict
32.020000	31.25	120.000	17.9	100.0	40.0	8.75	Horizontal	Pass
88.200000	24.96	120.000	6.5	100.0	40.0	15.04	Horizontal	Pass
107.600000	27.62	120.000	9.4	100.0	43.5	15.88	Horizontal	Pass
163.860000	34.12	120.000	11.2	100.0	43.5	9.38	Horizontal	Pass
189.080000	32.18	120.000	10.3	100.0	43.5	11.32	Horizontal	Pass
301.600000	39.15	120.000	13.1	100.0	46.0	6.85	Horizontal	Pass



30MHz to 1GHz, Antenna Vertical

Frequency (MHz)	QuasiPeak (dB µ V/m)	Bandwidth (kHz)	Corr. Factor (dBµV/m)	Antenna height (cm)	Limit (dB µ V/m)	Margin	Antenna	Verdict
32.020000	31.84	120.000	17.9	100.0	40.0	8.16	Vertical	Pass
86.250000	29.62	120.000	7.0	100.0	40.0	10.38	Vertical	Pass
99.960000	32.74	120.000	10.2	100.0	43.5	10.76	Vertical	Pass
493.620000	38.63	120.000	19.3	100.0	46.0	7.37	Vertical	Pass
516.920000	36.58	120.000	19.3	100.0	46.0	9.42	Vertical	Pass
670.200000	35.26	120.000	21.0	100.0	46.0	10.74	Vertical	Pass

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. Margin value = Limit value - Emission Level
4. The other emission levels were very low against the limit.

**For 1GHz to 40 GHz**

U-NII-1_802.11a_5180MHz - ANT0									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	55.63	68.20	-12.57	1.60	220	48.13	7.50	Horizontal	Peak
5150.00	47.18	54.00	-6.82	1.60	220	39.68	7.50	Horizontal	Average
10360.00	55.82	68.20	-12.38	1.60	220	36.02	19.80	Horizontal	Peak
10360.00	42.55	54.00	-11.45	1.60	220	22.75	19.80	Horizontal	Average
5150.00	52.54	68.20	-15.66	1.70	150	45.04	7.50	Vertical	Peak
5150.00	40.47	54.00	-13.53	1.70	150	32.97	7.50	Vertical	Average
10360.00	57.05	68.20	-11.15	1.70	150	37.25	19.80	Vertical	Peak
10360.00	42.29	54.00	-11.71	1.70	150	22.49	19.80	Vertical	Average

U-NII-1_802.11a_5220MHz - ANT0									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
10440.00	52.16	68.20	-16.04	1.60	220	32.26	19.90	Horizontal	Peak
10440.00	40.34	54.00	-13.66	1.60	220	20.44	19.90	Horizontal	Average
10440.00	52.71	68.20	-15.49	1.70	150	32.81	19.90	Vertical	Peak
10440.00	40.76	54.00	-13.24	1.70	150	20.86	19.90	Vertical	Average

U-NII-1_802.11a_5240MHz - ANT0									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	50.02	68.20	-18.18	1.60	220	42.02	50.02	Horizontal	Peak
5350.00	41.25	54.00	-12.75	1.60	220	33.25	41.25	Horizontal	Average
10480.00	53.88	68.20	-14.32	1.60	220	33.98	53.88	Horizontal	Peak
10480.00	45.00	54.00	-9.00	1.60	220	25.10	45	Horizontal	Average
5350.00	50.69	68.20	-17.51	1.70	150	42.69	50.69	Vertical	Peak
5350.00	40.16	54.00	-13.84	1.70	150	32.16	40.16	Vertical	Average
10480.00	52.99	68.20	-15.21	1.70	150	33.09	52.99	Vertical	Peak
10480.00	42.06	54.00	-11.94	1.70	150	22.16	42.06	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



U-NII-1_802.11a_5180MHz - ANT1									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	56.00	68.20	-12.20	1.60	220	48.50	7.50	Horizontal	Peak
5150.00	46.78	54.00	-7.22	1.60	220	39.28	7.50	Horizontal	Average
10360.00	55.86	68.20	-12.34	1.60	220	36.06	19.80	Horizontal	Peak
10360.00	44.00	54.00	-10.00	1.60	220	24.20	19.80	Horizontal	Average
5150.00	51.35	68.20	-16.85	1.70	150	43.85	7.50	Vertical	Peak
5150.00	40.81	54.00	-13.19	1.70	150	33.31	7.50	Vertical	Average
10360.00	55.65	68.20	-12.55	1.70	150	35.85	19.80	Vertical	Peak
10360.00	42.21	54.00	-11.79	1.70	150	22.41	19.80	Vertical	Average
U-NII-1_802.11a_5220MHz - ANT1									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
10440.00	51.72	68.20	-16.48	1.60	220	31.82	19.90	Horizontal	Peak
10440.00	40.44	54.00	-13.56	1.60	220	20.54	19.90	Horizontal	Average
10440.00	52.71	68.20	-15.49	1.70	150	32.81	19.90	Vertical	Peak
10440.00	41.06	54.00	-12.94	1.70	150	21.16	19.90	Vertical	Average
U-NII-1_802.11a_5240MHz - ANT1									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	50.16	68.20	-18.04	1.60	220	42.16	8.00	Horizontal	Peak
5350.00	40.79	54.00	-13.21	1.60	220	32.79	8.00	Horizontal	Average
10480.00	54.20	68.20	-14.00	1.60	220	34.30	19.90	Horizontal	Peak
10480.00	45.49	54.00	-8.51	1.60	220	25.59	19.90	Horizontal	Average
5350.00	50.68	68.20	-17.52	1.70	150	42.68	8.00	Vertical	Peak
5350.00	40.39	54.00	-13.61	1.70	150	32.39	8.00	Vertical	Average
10480.00	52.51	68.20	-15.69	1.70	150	32.61	19.90	Vertical	Peak
10480.00	41.97	54.00	-12.03	1.70	150	22.07	19.90	Vertical	Average
Remark:									
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)									
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)									
3. Margin value = Emission Level – Limit value									
4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

**U-NII-1_802.11a_5180MHz - ANT2**

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	55.95	68.20	-12.25	1.60	220	48.45	7.50	Horizontal	Peak
5150.00	46.77	54.00	-7.23	1.60	220	39.27	7.50	Horizontal	Average
10360.00	55.92	68.20	-12.28	1.60	220	36.12	19.80	Horizontal	Peak
10360.00	43.63	54.00	-10.37	1.60	220	23.83	19.80	Horizontal	Average
5150.00	51.81	68.20	-16.39	1.70	150	44.31	7.50	Vertical	Peak
5150.00	40.74	54.00	-13.26	1.70	150	33.24	7.50	Vertical	Average
10360.00	55.87	68.20	-12.33	1.70	150	36.07	19.80	Vertical	Peak
10360.00	42.52	54.00	-11.48	1.70	150	22.72	19.80	Vertical	Average

U-NII-1_802.11a_5220MHz - ANT2

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
10440.00	51.94	68.20	-16.26	1.60	220	32.04	19.90	Horizontal	Peak
10440.00	40.26	54.00	-13.74	1.60	220	20.36	19.90	Horizontal	Average
10440.00	52.96	68.20	-15.24	1.70	150	33.06	19.90	Vertical	Peak
10440.00	41.02	54.00	-12.98	1.70	150	21.12	19.90	Vertical	Average

U-NII-1_802.11a_5240MHz - ANT2

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	50.54	68.20	-17.66	1.60	220	42.54	8.00	Horizontal	Peak
5350.00	40.45	54.00	-13.55	1.60	220	32.45	8.00	Horizontal	Average
10480.00	53.79	68.20	-14.41	1.60	220	33.89	19.90	Horizontal	Peak
10480.00	45.83	54.00	-8.17	1.60	220	25.93	19.90	Horizontal	Average
5350.00	50.20	68.20	-18.00	1.70	150	42.20	8.00	Vertical	Peak
5350.00	40.36	54.00	-13.64	1.70	150	32.36	8.00	Vertical	Average
10480.00	52.16	68.20	-16.04	1.70	150	32.26	19.90	Vertical	Peak
10480.00	42.18	54.00	-11.82	1.70	150	22.28	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

**U-NII-1_802.11a_5180MHz - ANT3**

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	56.18	68.20	-12.02	1.60	220	48.68	7.50	Horizontal	Peak
5150.00	46.39	54.00	-7.61	1.60	220	38.89	7.50	Horizontal	Average
10360.00	55.82	68.20	-12.38	1.60	220	36.02	19.80	Horizontal	Peak
10360.00	43.9	54.00	-10.10	1.60	220	24.10	19.80	Horizontal	Average
5150.00	51.38	68.20	-16.82	1.70	150	43.88	7.50	Vertical	Peak
5150.00	41.07	54.00	-12.93	1.70	150	33.57	7.50	Vertical	Average
10360.00	55.49	68.20	-12.71	1.70	150	35.69	19.80	Vertical	Peak
10360.00	42.06	54.00	-11.94	1.70	150	22.26	19.80	Vertical	Average

U-NII-1_802.11a_5220MHz - ANT3

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
10440.00	51.98	68.20	-16.22	1.60	220	32.08	19.90	Horizontal	Peak
10440.00	40.38	54.00	-13.62	1.60	220	20.48	19.90	Horizontal	Average
10440.00	53.05	68.20	-15.15	1.70	150	33.15	19.90	Vertical	Peak
10440.00	40.80	54.00	-13.20	1.70	150	20.90	19.90	Vertical	Average

U-NII-1_802.11a_5240MHz - ANT3

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	49.53	68.20	-18.67	1.60	220	41.53	8.00	Horizontal	Peak
5350.00	41.28	54.00	-12.72	1.60	220	33.28	8.00	Horizontal	Average
10480.00	53.34	68.20	-14.86	1.60	220	33.44	19.90	Horizontal	Peak
10480.00	46.23	54.00	-7.77	1.60	220	26.33	19.90	Horizontal	Average
5350.00	50.91	68.20	-17.29	1.70	150	42.91	8.00	Vertical	Peak
5350.00	40.96	54.00	-13.04	1.70	150	32.96	8.00	Vertical	Average
10480.00	53.19	68.20	-15.01	1.70	150	33.29	19.90	Vertical	Peak
10480.00	42.32	54.00	-11.68	1.70	150	22.42	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



U-NII-1_802.11n-HT20_5180MHz - 4×4 MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	55.83	68.20	-12.37	1.60	220	48.33	7.50	Horizontal	Peak
5150.00	46.34	54.00	-7.66	1.60	220	38.84	7.50	Horizontal	Average
10360.00	55.34	68.20	-12.86	1.60	220	35.54	19.80	Horizontal	Peak
10360.00	43.46	54.00	-10.54	1.60	220	23.66	19.80	Horizontal	Average
5150.00	51.04	68.20	-17.16	1.70	150	43.54	7.50	Vertical	Peak
5150.00	41.50	54.00	-12.50	1.70	150	34.00	7.50	Vertical	Average
10360.00	55.67	68.20	-12.53	1.70	150	35.87	19.80	Vertical	Peak
10360.00	42.33	54.00	-11.67	1.70	150	22.53	19.80	Vertical	Average

U-NII-1_802.11n-HT20_5220MHz - 4×4 MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
10440.00	51.72	68.20	-16.48	1.60	220	31.82	19.90	Horizontal	Peak
10440.00	40.48	54.00	-13.52	1.60	220	20.58	19.90	Horizontal	Average
10440.00	52.73	68.20	-15.47	1.70	150	32.83	19.90	Vertical	Peak
10440.00	41.25	54.00	-12.75	1.70	150	21.35	19.90	Vertical	Average

U-NII-1_802.11n-HT20_5240MHz - 4×4 MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	50.23	68.20	-17.97	1.60	220	42.23	8.00	Horizontal	Peak
5350.00	40.82	54.00	-13.18	1.60	220	32.82	8.00	Horizontal	Average
10480.00	53.17	68.20	-15.03	1.60	220	33.27	19.90	Horizontal	Peak
10480.00	45.77	54.00	-8.23	1.60	220	25.87	19.90	Horizontal	Average
5350.00	51.08	68.20	-17.12	1.70	150	43.08	8.00	Vertical	Peak
5350.00	41.26	54.00	-12.74	1.70	150	33.26	8.00	Vertical	Average
10480.00	53.35	68.20	-14.85	1.70	150	33.45	19.90	Vertical	Peak
10480.00	41.99	54.00	-12.01	1.70	150	22.09	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.

**U-NII-1_802.11ac-VHT20_5180MHz - 4x4 MIMO**

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	55.35	68.20	-12.85	1.60	220	47.85	7.50	Horizontal	Peak
5150.00	46.51	54.00	-7.49	1.60	220	39.01	7.50	Horizontal	Average
10360.00	55.81	68.20	-12.39	1.60	220	36.01	19.80	Horizontal	Peak
10360.00	43.32	54.00	-10.68	1.60	220	23.52	19.80	Horizontal	Average
5150.00	51.42	68.20	-16.78	1.70	150	43.92	7.50	Vertical	Peak
5150.00	41.98	54.00	-12.02	1.70	150	34.48	7.50	Vertical	Average
10360.00	55.21	68.20	-12.99	1.70	150	35.41	19.80	Vertical	Peak
10360.00	42.26	54.00	-11.74	1.70	150	22.46	19.80	Vertical	Average

U-NII-1_802.11ac-VHT20_5220MHz - 4x4 MIMO

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
10440.00	51.74	68.20	-16.46	1.60	220	31.84	19.90	Horizontal	Peak
10440.00	40.74	54.00	-13.26	1.60	220	20.84	19.90	Horizontal	Average
10440.00	52.57	68.20	-15.63	1.70	150	32.67	19.90	Vertical	Peak
10440.00	40.94	54.00	-13.06	1.70	150	21.04	19.90	Vertical	Average

U-NII-1_802.11ac-VHT20_5240MHz - 4x4 MIMO

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	50.04	68.20	-18.16	1.60	220	42.04	8.00	Horizontal	Peak
5350.00	40.92	54.00	-13.08	1.60	220	32.92	8.00	Horizontal	Average
10480.00	53.85	68.20	-14.35	1.60	220	33.95	19.90	Horizontal	Peak
10480.00	45.89	54.00	-8.11	1.60	220	25.99	19.90	Horizontal	Average
5350.00	51.07	68.20	-17.13	1.70	150	43.07	8.00	Vertical	Peak
5350.00	40.20	54.00	-13.80	1.70	150	32.20	8.00	Vertical	Average
10480.00	52.82	68.20	-15.38	1.70	150	32.92	19.90	Vertical	Peak
10480.00	42.31	54.00	-11.69	1.70	150	22.41	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.



U-NII-1_802.11ax-HE20_5180MHz - 4x4 MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	53.69	68.20	-14.51	1.60	220	46.19	7.50	Horizontal	Peak
5150.00	46.76	54.00	-7.24	1.60	220	39.26	7.50	Horizontal	Average
10360.00	55.78	68.20	-12.42	1.60	220	35.98	19.80	Horizontal	Peak
10360.00	44.14	54.00	-9.86	1.60	220	24.34	19.80	Horizontal	Average
5150.00	51.74	68.20	-16.46	1.70	150	44.24	7.50	Vertical	Peak
5150.00	41.56	54.00	-12.44	1.70	150	34.06	7.50	Vertical	Average
10360.00	55.06	68.20	-13.14	1.70	150	35.26	19.80	Vertical	Peak
10360.00	42.14	54.00	-11.86	1.70	150	22.34	19.80	Vertical	Average

U-NII-1_802.11ax-HE20_5220MHz - 4x4 MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
10440.00	51.68	68.20	-16.52	1.60	220	31.78	19.90	Horizontal	Peak
10440.00	40.30	54.00	-13.70	1.60	220	20.40	19.90	Horizontal	Average
10440.00	52.74	68.20	-15.46	1.70	150	32.84	19.90	Vertical	Peak
10440.00	40.69	54.00	-13.31	1.70	150	20.79	19.90	Vertical	Average

U-NII-1_802.11ax-HE20_5240MHz - 4x4 MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	49.44	68.20	-18.76	1.60	220	41.44	8.00	Horizontal	Peak
5350.00	41.49	54.00	-12.51	1.60	220	33.49	8.00	Horizontal	Average
10480.00	53.29	68.20	-14.91	1.60	220	33.39	19.90	Horizontal	Peak
10480.00	45.73	54.00	-8.27	1.60	220	25.83	19.90	Horizontal	Average
5350.00	51.26	68.20	-16.94	1.70	150	43.26	8.00	Vertical	Peak
5350.00	41.05	54.00	-12.95	1.70	150	33.05	8.00	Vertical	Average
10480.00	52.83	68.20	-15.37	1.70	150	32.93	19.90	Vertical	Peak
10480.00	42.05	54.00	-11.95	1.70	150	22.15	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.



U-NII-1_802.11n-HT40_5190MHz - 4x4 MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	55.92	68.20	-12.28	1.60	220	48.42	7.50	Horizontal	Peak
5150.00	46.87	54.00	-7.13	1.60	220	39.37	7.50	Horizontal	Average
10380.00	55.55	68.20	-12.65	1.60	220	35.75	19.80	Horizontal	Peak
10380.00	42.92	54.00	-11.08	1.60	220	23.12	19.80	Horizontal	Average
5150.00	52.42	68.20	-15.78	1.70	150	44.92	7.50	Vertical	Peak
5150.00	40.85	54.00	-13.15	1.70	150	33.35	7.50	Vertical	Average
10380.00	56.72	68.20	-11.48	1.70	150	36.92	19.80	Vertical	Peak
10380.00	42.35	54.00	-11.65	1.70	150	22.55	19.80	Vertical	Average

U-NII-1_802.11n-HT40_5230MHz - 4x4 MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	50.29	68.20	-17.91	1.60	220	42.29	8.00	Horizontal	Peak
5350.00	40.82	54.00	-13.18	1.60	220	32.82	8.00	Horizontal	Average
10460.00	54.27	68.20	-13.93	1.60	220	34.37	19.90	Horizontal	Peak
10460.00	45.68	54.00	-8.32	1.60	220	25.78	19.90	Horizontal	Average
5350.00	49.70	68.20	-18.50	1.70	150	41.70	8.00	Vertical	Peak
5350.00	40.67	54.00	-13.33	1.70	150	32.67	8.00	Vertical	Average
10460.00	52.07	68.20	-16.13	1.70	150	32.17	19.90	Vertical	Peak
10460.00	41.99	54.00	-12.01	1.70	150	22.09	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.



U-NII-1_802.11ac-VHT40_5190MHz - 4x4 MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	56.40	68.20	-11.80	1.60	220	48.90	7.50	Horizontal	Peak
5150.00	46.60	54.00	-7.40	1.60	220	39.10	7.50	Horizontal	Average
10380.00	55.78	68.20	-12.42	1.60	220	35.98	19.80	Horizontal	Peak
10380.00	43.41	54.00	-10.59	1.60	220	23.61	19.80	Horizontal	Average
5150.00	52.13	68.20	-16.07	1.70	150	44.63	7.50	Vertical	Peak
5150.00	41.14	54.00	-12.86	1.70	150	33.64	7.50	Vertical	Average
10380.00	56.27	68.20	-11.93	1.70	150	36.47	19.80	Vertical	Peak
10380.00	42.61	54.00	-11.39	1.70	150	22.81	19.80	Vertical	Average

U-NII-1_802.11ac-VHT40_5230MHz - 4x4 MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	50.25	68.20	-17.95	1.60	220	42.25	8.00	Horizontal	Peak
5350.00	40.74	54.00	-13.26	1.60	220	32.74	8.00	Horizontal	Average
10460.00	54.38	68.20	-13.82	1.60	220	34.48	19.90	Horizontal	Peak
10460.00	45.73	54.00	-8.27	1.60	220	25.83	19.90	Horizontal	Average
5350.00	49.61	68.20	-18.59	1.70	150	41.61	8.00	Vertical	Peak
5350.00	40.71	54.00	-13.29	1.70	150	32.71	8.00	Vertical	Average
10460.00	51.69	68.20	-16.51	1.70	150	31.79	19.90	Vertical	Peak
10460.00	42.38	54.00	-11.62	1.70	150	22.48	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.

**U-NII-1_802.11ax-HE40_5190MHz - 4x4 MIMO**

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	54.36	68.20	-13.84	1.60	220	46.86	7.50	Horizontal	Peak
5150.00	46.73	54.00	-7.27	1.60	220	39.23	7.50	Horizontal	Average
10380.00	55.50	68.20	-12.70	1.60	220	35.70	19.80	Horizontal	Peak
10380.00	42.81	54.00	-11.19	1.60	220	23.01	19.80	Horizontal	Average
5150.00	52.43	68.20	-15.77	1.70	150	44.93	7.50	Vertical	Peak
5150.00	41.00	54.00	-13.00	1.70	150	33.50	7.50	Vertical	Average
10380.00	56.47	68.20	-11.73	1.70	150	36.67	19.80	Vertical	Peak
10380.00	42.11	54.00	-11.89	1.70	150	22.31	19.80	Vertical	Average

U-NII-1_802.11ax-HE40_5230MHz - 4x4 MIMO

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	49.93	68.20	-18.27	1.60	220	41.93	8.00	Horizontal	Peak
5350.00	40.52	54.00	-13.48	1.60	220	32.52	8.00	Horizontal	Average
10460.00	54.53	68.20	-13.67	1.60	220	34.63	19.90	Horizontal	Peak
10460.00	45.99	54.00	-8.01	1.60	220	26.09	19.90	Horizontal	Average
5350.00	49.51	68.20	-18.69	1.70	150	41.51	8.00	Vertical	Peak
5350.00	40.22	54.00	-13.78	1.70	150	32.22	8.00	Vertical	Average
10460.00	52.20	68.20	-16.00	1.70	150	32.30	19.90	Vertical	Peak
10460.00	42.20	54.00	-11.80	1.70	150	22.30	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.

**U-NII-1_802.11ac-VHT80_5210MHz - 4×4 MIMO**

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	56.85	68.20	-11.35	1.60	220	49.35	7.50	Horizontal	Peak
5150.00	46.75	54.00	-7.25	1.60	220	39.25	7.50	Horizontal	Average
5350.00	50.60	68.20	-17.60	1.60	220	42.60	8.00	Horizontal	Peak
5350.00	39.78	54.00	-14.22	1.60	220	31.78	8.00	Horizontal	Average
10420.00	52.32	68.20	-15.88	1.60	220	32.42	19.90	Horizontal	Peak
10420.00	40.76	54.00	-13.24	1.60	220	20.86	19.90	Horizontal	Average
5150.00	56.11	68.20	-12.09	1.70	150	48.61	7.50	Vertical	Peak
5150.00	46.51	54.00	-7.49	1.70	150	39.01	7.50	Vertical	Average
5350.00	50.42	68.20	-17.78	1.70	150	42.42	8.00	Vertical	Peak
5350.00	40.67	54.00	-13.33	1.70	150	32.67	8.00	Vertical	Average
10420.00	51.91	68.20	-16.29	1.70	150	32.01	19.90	Vertical	Peak
10420.00	40.77	54.00	-13.23	1.70	150	20.87	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.

**U-NII-1_802.11ax-HE80_5210MHz - 4x4 MIMO**

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	56.44	68.20	-11.76	1.60	220	48.94	7.50	Horizontal	Peak
5150.00	46.84	54.00	-7.16	1.60	220	39.34	7.50	Horizontal	Average
5350.00	50.78	68.20	-17.42	1.60	220	42.78	8.00	Horizontal	Peak
5350.00	39.66	54.00	-14.34	1.60	220	31.66	8.00	Horizontal	Average
10420.00	51.83	68.20	-16.37	1.60	220	31.93	19.90	Horizontal	Peak
10420.00	40.42	54.00	-13.58	1.60	220	20.52	19.90	Horizontal	Average
5150.00	56.49	68.20	-11.71	1.70	150	48.99	7.50	Vertical	Peak
5150.00	46.40	54.00	-7.60	1.70	150	38.90	7.50	Vertical	Average
5350.00	50.29	68.20	-17.91	1.70	150	42.29	8.00	Vertical	Peak
5350.00	40.34	54.00	-13.66	1.70	150	32.34	8.00	Vertical	Average
10420.00	51.67	68.20	-16.53	1.70	150	31.77	19.90	Vertical	Peak
10420.00	40.84	54.00	-13.16	1.70	150	20.94	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.



U-NII-3_802.11a_5745MHz - ANT0									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	54.58	68.20	-13.62	1.60	220	45.12	9.46	Horizontal	Peak
5700.00	53.93	105.20	-51.27	1.60	220	44.34	9.59	Horizontal	Peak
5720.00	53.96	110.80	-56.84	1.60	220	44.32	9.64	Horizontal	Peak
5725.00	53.55	122.20	-68.65	1.60	220	43.90	9.65	Horizontal	Peak
11490.00	51.22	68.20	-16.98	1.60	220	29.52	21.70	Horizontal	Peak
11490.00	41.07	54.00	-12.93	1.60	220	19.37	21.70	Horizontal	Average
5650.00	54.82	68.20	-13.38	1.70	150	45.36	9.46	Vertical	Peak
5700.00	53.57	105.20	-51.63	1.70	150	43.98	9.59	Vertical	Peak
5720.00	54.30	110.80	-56.50	1.70	150	44.66	9.64	Vertical	Peak
5725.00	54.36	122.20	-67.84	1.70	150	44.71	9.65	Vertical	Peak
11490.00	52.40	68.20	-15.80	1.70	150	30.70	21.70	Vertical	Peak
11490.00	41.83	54.00	-12.17	1.70	150	20.13	21.70	Vertical	Average

U-NII-3_802.11a_5825MHz - ANT0									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	54.64	122.20	-67.56	1.60	220	44.86	9.78	Horizontal	Peak
5855.00	54.79	110.80	-56.01	1.60	220	45.00	9.79	Horizontal	Peak
5875.00	53.45	105.20	-51.75	1.60	220	43.61	9.84	Horizontal	Peak
5925.00	52.76	68.20	-15.44	1.60	220	42.79	9.97	Horizontal	Peak
11650.00	53.24	68.20	-14.96	1.60	220	31.34	21.90	Horizontal	Peak
11650.00	42.17	54.00	-11.83	1.60	220	20.27	21.90	Horizontal	Average
5850.00	52.99	122.20	-69.21	1.70	150	43.21	9.78	Vertical	Peak
5855.00	53.41	110.80	-57.39	1.70	150	43.62	9.79	Vertical	Peak
5875.00	54.21	105.20	-50.99	1.70	150	44.37	9.84	Vertical	Peak
5925.00	51.69	68.20	-16.51	1.70	150	41.72	9.97	Vertical	Peak
11650.00	53.36	68.20	-14.84	1.70	150	31.46	21.90	Vertical	Peak
11650.00	41.20	54.00	-12.80	1.70	150	19.30	21.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



U-NII-3_802.11a_5745MHz - ANT1									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	54.69	68.20	-13.51	1.60	220	45.23	9.46	Horizontal	Peak
5700.00	54.39	105.20	-50.81	1.60	220	44.80	9.59	Horizontal	Peak
5720.00	53.62	110.80	-57.18	1.60	220	43.98	9.64	Horizontal	Peak
5725.00	53.52	122.20	-68.68	1.60	220	43.87	9.65	Horizontal	Peak
11490.00	51.22	68.20	-16.98	1.60	220	29.52	21.70	Horizontal	Peak
11490.00	41.38	54.00	-12.62	1.60	220	19.68	21.70	Horizontal	Average
5650.00	55.33	68.20	-12.87	1.70	150	45.87	9.46	Vertical	Peak
5700.00	53.93	105.20	-51.27	1.70	150	44.34	9.59	Vertical	Peak
5720.00	54.19	110.80	-56.61	1.70	150	44.55	9.64	Vertical	Peak
5725.00	53.57	122.20	-68.63	1.70	150	43.92	9.65	Vertical	Peak
11490.00	52.40	68.20	-15.80	1.70	150	30.70	21.70	Vertical	Peak
11490.00	42.04	54.00	-11.96	1.70	150	20.34	21.70	Vertical	Average

U-NII-3_802.11a_5825MHz - ANT1									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	54.46	122.20	-67.74	1.60	220	44.68	9.78	Horizontal	Peak
5855.00	54.42	110.80	-56.38	1.60	220	44.63	9.79	Horizontal	Peak
5875.00	54.08	105.20	-51.12	1.60	220	44.24	9.84	Horizontal	Peak
5925.00	52.91	68.20	-15.29	1.60	220	42.94	9.97	Horizontal	Peak
11650.00	52.48	68.20	-15.72	1.60	220	30.58	21.90	Horizontal	Peak
11650.00	41.62	54.00	-12.38	1.60	220	19.72	21.90	Horizontal	Average
5850.00	53.12	122.20	-69.08	1.70	150	43.34	9.78	Vertical	Peak
5855.00	53.93	110.80	-56.87	1.70	150	44.14	9.79	Vertical	Peak
5875.00	53.84	105.20	-51.36	1.70	150	44.00	9.84	Vertical	Peak
5925.00	51.98	68.20	-16.22	1.70	150	42.01	9.97	Vertical	Peak
11650.00	53.15	68.20	-15.05	1.70	150	31.25	21.90	Vertical	Peak
11650.00	41.29	54.00	-12.71	1.70	150	19.39	21.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



U-NII-3_802.11a_5745MHz - ANT2									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	54.83	68.20	-13.37	1.60	220	45.37	9.46	Horizontal	Peak
5700.00	54.14	105.20	-51.06	1.60	220	44.55	9.59	Horizontal	Peak
5720.00	53.55	110.80	-57.25	1.60	220	43.91	9.64	Horizontal	Peak
5725.00	53.67	122.20	-68.53	1.60	220	44.02	9.65	Horizontal	Peak
11490.00	51.44	68.20	-16.76	1.60	220	29.74	21.70	Horizontal	Peak
11490.00	40.99	54.00	-13.01	1.60	220	19.29	21.70	Horizontal	Average
5650.00	54.85	68.20	-13.35	1.70	150	45.39	9.46	Vertical	Peak
5700.00	53.46	105.20	-51.74	1.70	150	43.87	9.59	Vertical	Peak
5720.00	54.43	110.80	-56.37	1.70	150	44.79	9.64	Vertical	Peak
5725.00	54.02	122.20	-68.18	1.70	150	44.37	9.65	Vertical	Peak
11490.00	51.98	68.20	-16.22	1.70	150	30.28	21.70	Vertical	Peak
11490.00	42.17	54.00	-11.83	1.70	150	20.47	21.70	Vertical	Average

U-NII-3_802.11a_5825MHz - ANT2									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	54.42	122.20	-67.78	1.60	220	44.64	9.78	Horizontal	Peak
5855.00	54.82	110.80	-55.98	1.60	220	45.03	9.79	Horizontal	Peak
5875.00	53.89	105.20	-51.31	1.60	220	44.05	9.84	Horizontal	Peak
5925.00	52.77	68.20	-15.43	1.60	220	42.80	9.97	Horizontal	Peak
11650.00	52.88	68.20	-15.32	1.60	220	30.98	21.90	Horizontal	Peak
11650.00	41.92	54.00	-12.08	1.60	220	20.02	21.90	Horizontal	Average
5850.00	52.77	122.20	-69.43	1.70	150	42.99	9.78	Vertical	Peak
5855.00	53.44	110.80	-57.36	1.70	150	43.65	9.79	Vertical	Peak
5875.00	54.27	105.20	-50.93	1.70	150	44.43	9.84	Vertical	Peak
5925.00	51.93	68.20	-16.27	1.70	150	41.96	9.97	Vertical	Peak
11650.00	53.05	68.20	-15.15	1.70	150	31.15	21.90	Vertical	Peak
11650.00	40.84	54.00	-13.16	1.70	150	18.94	21.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



U-NII-3_802.11a_5745MHz - ANT3									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	55.00	68.20	-13.20	1.60	220	45.54	9.46	Horizontal	Peak
5700.00	53.71	105.20	-51.49	1.60	220	44.12	9.59	Horizontal	Peak
5720.00	53.46	110.80	-57.34	1.60	220	43.82	9.64	Horizontal	Peak
5725.00	53.96	122.20	-68.24	1.60	220	44.31	9.65	Horizontal	Peak
11490.00	51.65	68.20	-16.55	1.60	220	29.95	21.70	Horizontal	Peak
11490.00	40.76	54.00	-13.24	1.60	220	19.06	21.70	Horizontal	Average
5650.00	54.96	68.20	-13.24	1.70	150	45.50	9.46	Vertical	Peak
5700.00	53.84	105.20	-51.36	1.70	150	44.25	9.59	Vertical	Peak
5720.00	54.43	110.80	-56.37	1.70	150	44.79	9.64	Vertical	Peak
5725.00	54.20	122.20	-68.00	1.70	150	44.55	9.65	Vertical	Peak
11490.00	52.19	68.20	-16.01	1.70	150	30.49	21.70	Vertical	Peak
11490.00	42.29	54.00	-11.71	1.70	150	20.59	21.70	Vertical	Average

U-NII-3_802.11a_5825MHz - ANT3									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	55.27	122.20	-66.93	1.60	220	45.49	55.27	Horizontal	Peak
5855.00	54.25	110.80	-56.55	1.60	220	44.46	54.25	Horizontal	Peak
5875.00	53.80	105.20	-51.40	1.60	220	43.96	53.80	Horizontal	Peak
5925.00	52.22	68.20	-15.98	1.60	220	42.25	52.22	Horizontal	Peak
11650.00	53.01	68.20	-15.19	1.60	220	31.11	53.01	Horizontal	Peak
11650.00	41.91	54.00	-12.09	1.60	220	20.01	41.91	Horizontal	Average
5850.00	52.37	122.20	-69.83	1.70	150	42.59	52.37	Vertical	Peak
5855.00	54.41	110.80	-56.39	1.70	150	44.62	54.41	Vertical	Peak
5875.00	54.97	105.20	-50.23	1.70	150	45.13	54.97	Vertical	Peak
5925.00	51.88	68.20	-16.32	1.70	150	41.91	51.88	Vertical	Peak
11650.00	52.08	68.20	-16.12	1.70	150	30.18	52.08	Vertical	Peak
11650.00	41.15	54.00	-12.85	1.70	150	19.25	41.15	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



U-NII-3_802.11a_5785MHz - ANT0									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11570.00	53.36	68.20	-14.84	1.60	220	31.66	21.70	Horizontal	Peak
11570.00	43.28	54.00	-10.72	1.60	220	21.58	21.70	Horizontal	Average
11570.00	52.36	68.20	-15.84	1.70	150	30.66	21.70	Vertical	Peak
11570.00	41.71	54.00	-12.29	1.70	150	20.01	21.70	Vertical	Average

U-NII-3_802.11a_5785MHz - ANT1									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11570.00	53.29	68.20	-14.91	1.60	220	53.29	21.70	Horizontal	Peak
11570.00	42.95	54.00	-11.05	1.60	220	42.95	21.70	Horizontal	Average
11570.00	52.58	68.20	-15.62	1.70	150	52.58	21.70	Vertical	Peak
11570.00	41.50	54.00	-12.50	1.70	150	41.50	21.70	Vertical	Average

U-NII-3_802.11a_5785MHz - ANT2									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11570.00	53.04	68.20	-15.16	1.60	220	31.34	21.70	Horizontal	Peak
11570.00	43.14	54.00	-10.86	1.60	220	21.44	21.70	Horizontal	Average
11570.00	52.41	68.20	-15.79	1.70	150	30.71	21.70	Vertical	Peak
11570.00	41.68	54.00	-12.32	1.70	150	19.98	21.70	Vertical	Average

U-NII-3_802.11a_5785MHz - ANT3									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11570.00	54.25	68.20	-13.95	1.60	220	32.55	21.70	Horizontal	Peak
11570.00	42.84	54.00	-11.16	1.60	220	21.14	21.70	Horizontal	Average
11570.00	53.47	68.20	-14.73	1.70	150	31.77	21.70	Vertical	Peak
11570.00	41.69	54.00	-12.31	1.70	150	19.99	21.70	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

**U-NII-3_802.11n-HT20_5745MHz - 4×4 MIMO**

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	54.98	68.20	-13.22	1.60	220	45.52	9.46	Horizontal	Peak
5700.00	53.33	105.20	-51.87	1.60	220	43.74	9.59	Horizontal	Peak
5720.00	53.26	110.80	-57.54	1.60	220	43.62	9.64	Horizontal	Peak
5725.00	54.22	122.20	-67.98	1.60	220	44.57	9.65	Horizontal	Peak
11490.00	51.19	68.20	-17.01	1.60	220	29.49	21.70	Horizontal	Peak
11490.00	40.82	54.00	-13.18	1.60	220	19.12	21.70	Horizontal	Average
5650.00	54.71	68.20	-13.49	1.70	150	45.25	9.46	Vertical	Peak
5700.00	54.12	105.20	-51.08	1.70	150	44.53	9.59	Vertical	Peak
5720.00	54.64	110.80	-56.16	1.70	150	45.00	9.64	Vertical	Peak
5725.00	54.37	122.20	-67.83	1.70	150	44.72	9.65	Vertical	Peak
11490.00	52.24	68.20	-15.96	1.70	150	30.54	21.70	Vertical	Peak
11490.00	42.76	54.00	-11.24	1.70	150	21.06	21.70	Vertical	Average

U-NII-3_802.11n-HT20_5825MHz - 4×4 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	54.95	122.20	-67.25	1.60	220	45.17	9.78	Horizontal	Peak
5855.00	54.52	110.80	-56.28	1.60	220	44.73	9.79	Horizontal	Peak
5875.00	54.30	105.20	-50.90	1.60	220	44.46	9.84	Horizontal	Peak
5925.00	52.26	68.20	-15.94	1.60	220	42.29	9.97	Horizontal	Peak
11650.00	52.63	68.20	-15.57	1.60	220	30.73	21.90	Horizontal	Peak
11650.00	41.83	54.00	-12.17	1.60	220	19.93	21.90	Horizontal	Average
5850.00	52.19	122.20	-70.01	1.70	150	42.41	9.78	Vertical	Peak
5855.00	54.34	110.80	-56.46	1.70	150	44.55	9.79	Vertical	Peak
5875.00	54.81	105.20	-50.39	1.70	150	44.97	9.84	Vertical	Peak
5925.00	51.59	68.20	-16.61	1.70	150	41.62	9.97	Vertical	Peak
11650.00	52.57	68.20	-15.63	1.70	150	30.67	21.90	Vertical	Peak
11650.00	41.58	54.00	-12.42	1.70	150	19.68	21.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.



U-NII-3_802.11ac-VHE20_5745MHz - 4x4 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	55.18	68.20	-13.02	1.60	220	45.72	9.46	Horizontal	Peak
5700.00	53.43	105.20	-51.77	1.60	220	43.84	9.59	Horizontal	Peak
5720.00	52.98	110.80	-57.82	1.60	220	43.34	9.64	Horizontal	Peak
5725.00	53.80	122.20	-68.40	1.60	220	44.15	9.65	Horizontal	Peak
11490.00	50.69	68.20	-17.51	1.60	220	28.99	21.70	Horizontal	Peak
11490.00	41.10	54.00	-12.90	1.60	220	19.40	21.70	Horizontal	Average
5650.00	54.39	68.20	-13.81	1.70	150	44.93	9.46	Vertical	Peak
5700.00	54.54	105.20	-50.66	1.70	150	44.95	9.59	Vertical	Peak
5720.00	54.56	110.80	-56.24	1.70	150	44.92	9.64	Vertical	Peak
5725.00	54.75	122.20	-67.45	1.70	150	45.10	9.65	Vertical	Peak
11490.00	52.24	68.20	-15.96	1.70	150	30.54	21.70	Vertical	Peak
11490.00	43.00	54.00	-11.00	1.70	150	21.30	21.70	Vertical	Average

U-NII-3_802.11ac-VHT20_5825MHz - 4x4 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	54.87	122.20	-67.33	1.60	220	45.09	9.78	Horizontal	Peak
5855.00	54.93	110.80	-55.87	1.60	220	45.14	9.79	Horizontal	Peak
5875.00	54.23	105.20	-50.97	1.60	220	44.39	9.84	Horizontal	Peak
5925.00	52.73	68.20	-15.47	1.60	220	42.76	9.97	Horizontal	Peak
11650.00	52.96	68.20	-15.24	1.60	220	31.06	21.90	Horizontal	Peak
11650.00	41.84	54.00	-12.16	1.60	220	19.94	21.90	Horizontal	Average
5850.00	52.67	122.20	-69.53	1.70	150	42.89	9.78	Vertical	Peak
5855.00	53.92	110.80	-56.88	1.70	150	44.13	9.79	Vertical	Peak
5875.00	54.76	105.20	-50.44	1.70	150	44.92	9.84	Vertical	Peak
5925.00	51.69	68.20	-16.51	1.70	150	41.72	9.97	Vertical	Peak
11650.00	53.01	68.20	-15.19	1.70	150	31.11	21.90	Vertical	Peak
11650.00	41.19	54.00	-12.81	1.70	150	19.29	21.90	Vertical	Average

Remark:

1. *Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)*
2. *Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)*
3. *Margin value = Emission Level – Limit value*
4. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
5. *ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.*



U-NII-3_802.11ax-HE20_5745MHz - 4x4 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	54.92	68.20	-13.28	1.60	220	45.46	9.46	Horizontal	Peak
5700.00	53.98	105.20	-51.22	1.60	220	44.39	9.59	Horizontal	Peak
5720.00	53.69	110.80	-57.11	1.60	220	44.05	9.64	Horizontal	Peak
5725.00	54.34	122.20	-67.86	1.60	220	44.69	9.65	Horizontal	Peak
11490.00	52.04	68.20	-16.16	1.60	220	30.34	21.70	Horizontal	Peak
11490.00	40.40	54.00	-13.60	1.60	220	18.70	21.70	Horizontal	Average
5650.00	55.05	68.20	-13.15	1.70	150	45.59	9.46	Vertical	Peak
5700.00	54.07	105.20	-51.13	1.70	150	44.48	9.59	Vertical	Peak
5720.00	54.53	110.80	-56.27	1.70	150	44.89	9.64	Vertical	Peak
5725.00	54.47	122.20	-67.73	1.70	150	44.82	9.65	Vertical	Peak
11490.00	52.40	68.20	-15.80	1.70	150	30.70	21.70	Vertical	Peak
11490.00	42.17	54.00	-11.83	1.70	150	20.47	21.70	Vertical	Average

U-NII-3_802.11ax-HE20_5825MHz - 4x4 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	55.18	122.20	-67.02	1.60	220	45.40	9.78	Horizontal	Peak
5855.00	53.78	110.80	-57.02	1.60	220	43.99	9.79	Horizontal	Peak
5875.00	53.53	105.20	-51.67	1.60	220	43.69	9.84	Horizontal	Peak
5925.00	52.20	68.20	-16.00	1.60	220	42.23	9.97	Horizontal	Peak
11650.00	52.82	68.20	-15.38	1.60	220	30.92	21.90	Horizontal	Peak
11650.00	42.23	54.00	-11.77	1.60	220	20.33	21.90	Horizontal	Average
5850.00	52.60	122.20	-69.60	1.70	150	42.82	9.78	Vertical	Peak
5855.00	54.68	110.80	-56.12	1.70	150	44.89	9.79	Vertical	Peak
5875.00	54.92	105.20	-50.28	1.70	150	45.08	9.84	Vertical	Peak
5925.00	52.04	68.20	-16.16	1.70	150	42.07	9.97	Vertical	Peak
11650.00	52.17	68.20	-16.03	1.70	150	30.27	21.90	Vertical	Peak
11650.00	41.06	54.00	-12.94	1.70	150	19.16	21.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.



U-NII-3_802.11n-HT20_5785MHz - 4x4 MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11570.00	53.66	68.20	-14.54	1.60	220	31.96	21.70	Horizontal	Peak
11570.00	43.43	54.00	-10.57	1.60	220	21.73	21.70	Horizontal	Average
11570.00	52.25	68.20	-15.95	1.70	150	30.55	21.70	Vertical	Peak
11570.00	41.39	54.00	-12.61	1.70	150	19.69	21.70	Vertical	Average
U-NII-3_802.11ac-VHT20_5785MHz - 4x4 MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11570.00	53.31	68.20	-14.89	1.60	220	31.61	21.70	Horizontal	Peak
11570.00	43.08	54.00	-10.92	1.60	220	21.38	21.70	Horizontal	Average
11570.00	52.59	68.20	-15.61	1.70	150	30.89	21.70	Vertical	Peak
11570.00	41.65	54.00	-12.35	1.70	150	19.95	21.70	Vertical	Average
U-NII-3_802.11ax-HE20_5785MHz - 4x4 MIMO									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11570.00	53.39	68.20	-14.81	1.60	220	31.69	21.70	Horizontal	Peak
11570.00	43.15	54.00	-10.85	1.60	220	21.45	21.70	Horizontal	Average
11570.00	52.54	68.20	-15.66	1.70	150	30.84	21.70	Vertical	Peak
11570.00	41.29	54.00	-12.71	1.70	150	19.59	21.70	Vertical	Average
<p>Remark:</p> <ol style="list-style-type: none"> 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report. 5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO. 									



U-NII-3_802.11n-HT40_5755MHz - 4x4 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	55.04	68.20	-13.16	1.60	220	45.58	9.46	Horizontal	Peak
5700.00	53.75	105.20	-51.45	1.60	220	44.16	9.59	Horizontal	Peak
5720.00	53.89	110.80	-56.91	1.60	220	44.25	9.64	Horizontal	Peak
5725.00	53.98	122.20	-68.22	1.60	220	44.33	9.65	Horizontal	Peak
11510.00	51.14	68.20	-17.06	1.60	220	29.44	21.70	Horizontal	Peak
11510.00	40.78	54.00	-13.22	1.60	220	19.08	21.70	Horizontal	Average
5650.00	55.10	68.20	-13.10	1.70	150	45.64	9.46	Vertical	Peak
5700.00	53.18	105.20	-52.02	1.70	150	43.59	9.59	Vertical	Peak
5720.00	54.72	110.80	-56.08	1.70	150	45.08	9.64	Vertical	Peak
5725.00	54.01	122.20	-68.19	1.70	150	44.36	9.65	Vertical	Peak
11510.00	52.85	68.20	-15.35	1.70	150	31.15	21.70	Vertical	Peak
11510.00	41.39	54.00	-12.61	1.70	150	19.69	21.70	Vertical	Average

U-NII-3_802.11n-HT40_5795MHz - 4x4 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	54.57	122.20	-67.63	1.60	220	44.79	9.78	Horizontal	Peak
5855.00	54.70	110.80	-56.10	1.60	220	44.91	9.79	Horizontal	Peak
5875.00	53.91	105.20	-51.29	1.60	220	44.07	9.84	Horizontal	Peak
5925.00	52.60	68.20	-15.60	1.60	220	42.63	9.97	Horizontal	Peak
11590.00	53.26	68.20	-14.94	1.60	220	31.36	21.90	Horizontal	Peak
11590.00	42.61	54.00	-11.39	1.60	220	20.71	21.90	Horizontal	Average
5850.00	53.46	122.20	-68.74	1.70	150	43.68	9.78	Vertical	Peak
5855.00	53.25	110.80	-57.55	1.70	150	43.46	9.79	Vertical	Peak
5875.00	54.64	105.20	-50.56	1.70	150	44.80	9.84	Vertical	Peak
5925.00	51.30	68.20	-16.90	1.70	150	41.33	9.97	Vertical	Peak
11590.00	53.74	68.20	-14.46	1.70	150	31.84	21.90	Vertical	Peak
11590.00	40.76	54.00	-13.24	1.70	150	18.86	21.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.



U-NII-3_802.11ac-VHT40_5755MHz - 4x4 MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	55.34	68.20	-12.86	1.60	220	45.88	9.46	Horizontal	Peak
5700.00	53.71	105.20	-51.49	1.60	220	44.12	9.59	Horizontal	Peak
5720.00	54.08	110.80	-56.72	1.60	220	44.44	9.64	Horizontal	Peak
5725.00	54.21	122.20	-67.99	1.60	220	44.56	9.65	Horizontal	Peak
11510.00	51.24	68.20	-16.96	1.60	220	29.54	21.70	Horizontal	Peak
11510.00	40.55	54.00	-13.45	1.60	220	18.85	21.70	Horizontal	Average
5650.00	54.85	68.20	-13.35	1.70	150	45.39	9.46	Vertical	Peak
5700.00	53.51	105.20	-51.69	1.70	150	43.92	9.59	Vertical	Peak
5720.00	55.03	110.80	-55.77	1.70	150	45.39	9.64	Vertical	Peak
5725.00	54.33	122.20	-67.87	1.70	150	44.68	9.65	Vertical	Peak
11510.00	52.40	68.20	-15.80	1.70	150	30.70	21.70	Vertical	Peak
11510.00	41.58	54.00	-12.42	1.70	150	19.88	21.70	Vertical	Average

U-NII-3_802.11ac-VHT40_5795MHz - 4x4 MIMO									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	54.68	122.20	-67.52	1.60	220	44.90	9.78	Horizontal	Peak
5855.00	54.56	110.80	-56.24	1.60	220	44.77	9.79	Horizontal	Peak
5875.00	54.02	105.20	-51.18	1.60	220	44.18	9.84	Horizontal	Peak
5925.00	52.44	68.20	-15.76	1.60	220	42.47	9.97	Horizontal	Peak
11590.00	53.12	68.20	-15.08	1.60	220	31.22	21.90	Horizontal	Peak
11590.00	42.41	54.00	-11.59	1.60	220	20.51	21.90	Horizontal	Average
5850.00	53.74	122.20	-68.46	1.70	150	43.96	9.78	Vertical	Peak
5855.00	53.06	110.80	-57.74	1.70	150	43.27	9.79	Vertical	Peak
5875.00	54.32	105.20	-50.88	1.70	150	44.48	9.84	Vertical	Peak
5925.00	51.07	68.20	-17.13	1.70	150	41.10	9.97	Vertical	Peak
11590.00	53.77	68.20	-14.43	1.70	150	31.87	21.90	Vertical	Peak
11590.00	41.12	54.00	-12.88	1.70	150	19.22	21.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.



U-NII-3_802.11ax-HE40_5755MHz - 4x4 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	55.30	68.20	-12.90	1.60	220	45.84	9.46	Horizontal	Peak
5700.00	54.12	105.20	-51.08	1.60	220	44.53	9.59	Horizontal	Peak
5720.00	54.26	110.80	-56.54	1.60	220	44.62	9.64	Horizontal	Peak
5725.00	53.93	122.20	-68.27	1.60	220	44.28	9.65	Horizontal	Peak
11510.00	51.34	68.20	-16.86	1.60	220	29.64	21.70	Horizontal	Peak
11510.00	40.99	54.00	-13.01	1.60	220	19.29	21.70	Horizontal	Average
5650.00	55.51	68.20	-12.69	1.70	150	46.05	9.46	Vertical	Peak
5700.00	53.26	105.20	-51.94	1.70	150	43.67	9.59	Vertical	Peak
5720.00	54.91	110.80	-55.89	1.70	150	45.27	9.64	Vertical	Peak
5725.00	54.37	122.20	-67.83	1.70	150	44.72	9.65	Vertical	Peak
11510.00	52.90	68.20	-15.30	1.70	150	31.20	21.70	Vertical	Peak
11510.00	41.37	54.00	-12.63	1.70	150	19.67	21.70	Vertical	Average

U-NII-3_802.11ax-HE40_5795MHz - 4x4 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	54.39	122.20	-67.81	1.60	220	44.61	9.78	Horizontal	Peak
5855.00	54.64	110.80	-56.16	1.60	220	44.85	9.79	Horizontal	Peak
5875.00	53.73	105.20	-51.47	1.60	220	43.89	9.84	Horizontal	Peak
5925.00	52.78	68.20	-15.42	1.60	220	42.81	9.97	Horizontal	Peak
11590.00	53.10	68.20	-15.10	1.60	220	31.20	21.90	Horizontal	Peak
11590.00	43.02	54.00	-10.98	1.60	220	21.12	21.90	Horizontal	Average
5850.00	53.25	122.20	-68.95	1.70	150	43.47	9.78	Vertical	Peak
5855.00	53.19	110.80	-57.61	1.70	150	43.40	9.79	Vertical	Peak
5875.00	54.83	105.20	-50.37	1.70	150	44.99	9.84	Vertical	Peak
5925.00	51.21	68.20	-16.99	1.70	150	41.24	9.97	Vertical	Peak
11590.00	54.08	68.20	-14.12	1.70	150	32.18	21.90	Vertical	Peak
11590.00	40.33	54.00	-13.67	1.70	150	18.43	21.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.



U-NII-3_802.11ac-VHT80_5775MHz - 4x4 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	53.06	68.20	-15.14	1.60	220	43.60	9.46	Horizontal	Peak
5700.00	53.38	105.20	-51.82	1.60	220	43.79	9.59	Horizontal	Peak
5720.00	54.37	110.80	-56.43	1.60	220	44.73	9.64	Horizontal	Peak
5725.00	54.07	122.20	-68.13	1.60	220	44.42	9.65	Horizontal	Peak
5850.00	54.80	122.20	-67.40	1.60	220	45.02	9.78	Horizontal	Peak
5855.00	53.77	110.80	-57.03	1.60	220	43.98	9.79	Horizontal	Peak
5875.00	55.31	105.20	-49.89	1.60	220	45.47	9.84	Horizontal	Peak
5925.00	52.52	68.20	-15.68	1.60	220	42.55	9.97	Horizontal	Peak
11550.00	53.80	68.20	-14.40	1.60	220	32.00	21.80	Horizontal	Peak
11550.00	42.56	54.00	-11.44	1.60	220	20.76	21.80	Horizontal	Average
5650.00	53.02	68.20	-15.18	1.70	150	43.56	9.46	Vertical	Peak
5700.00	54.37	105.20	-50.83	1.70	150	44.78	9.59	Vertical	Peak
5720.00	55.35	110.80	-55.45	1.70	150	45.71	9.64	Vertical	Peak
5725.00	53.51	122.20	-68.69	1.70	150	43.86	9.65	Vertical	Peak
5850.00	54.09	122.20	-68.11	1.70	150	44.31	9.78	Vertical	Peak
5855.00	54.02	110.80	-56.78	1.70	150	44.23	9.79	Vertical	Peak
5875.00	55.14	105.20	-50.06	1.70	150	45.30	9.84	Vertical	Peak
5925.00	52.90	68.20	-15.30	1.70	150	42.93	9.97	Vertical	Peak
11550.00	54.08	68.20	-14.12	1.70	150	32.28	21.80	Vertical	Peak
11550.00	42.73	54.00	-11.27	1.70	150	20.93	21.80	Vertical	Average

Remark:

1. *Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)*
2. *Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)*
3. *Margin value = Emission Level – Limit value*
4. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
5. *ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.*



U-NII-3_802.11ax-HE80_5775MHz - 4x4 MIMO

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	53.10	68.20	-15.10	1.60	220	43.64	9.46	Horizontal	Peak
5700.00	53.56	105.20	-51.64	1.60	220	43.97	9.59	Horizontal	Peak
5720.00	54.51	110.80	-56.29	1.60	220	44.87	9.64	Horizontal	Peak
5725.00	54.04	122.20	-68.16	1.60	220	44.39	9.65	Horizontal	Peak
5850.00	54.77	122.20	-67.43	1.60	220	44.99	9.78	Horizontal	Peak
5855.00	53.79	110.80	-57.01	1.60	220	44.00	9.79	Horizontal	Peak
5875.00	55.78	105.20	-49.42	1.60	220	45.94	9.84	Horizontal	Peak
5925.00	52.62	68.20	-15.58	1.60	220	42.65	9.97	Horizontal	Peak
11550.00	54.03	68.20	-14.17	1.60	220	32.23	21.80	Horizontal	Peak
11550.00	42.71	54.00	-11.29	1.60	220	20.91	21.80	Horizontal	Average
5650.00	53.21	68.20	-14.99	1.70	150	43.75	9.46	Vertical	Peak
5700.00	54.49	105.20	-50.71	1.70	150	44.90	9.59	Vertical	Peak
5720.00	55.44	110.80	-55.36	1.70	150	45.80	9.64	Vertical	Peak
5725.00	53.70	122.20	-68.50	1.70	150	44.05	9.65	Vertical	Peak
5850.00	54.31	122.20	-67.89	1.70	150	44.53	9.78	Vertical	Peak
5855.00	53.95	110.80	-56.85	1.70	150	44.16	9.79	Vertical	Peak
5875.00	54.90	105.20	-50.30	1.70	150	45.06	9.84	Vertical	Peak
5925.00	52.93	68.20	-15.27	1.70	150	42.96	9.97	Vertical	Peak
11550.00	54.02	68.20	-14.18	1.70	150	32.22	21.80	Vertical	Peak
11550.00	43.21	54.00	-10.79	1.70	150	21.41	21.80	Vertical	Average

Remark:

1. *Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)*
2. *Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)*
3. *Margin value = Emission Level – Limit value*
4. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
5. *ANT 0, ANT 1, ANT 2 and ANT 3 is 4*4MIMO.*

2.7. AC Power Line Conducted Emission

2.7.1. Limit of AC Power Line Conducted Emission

FCC Part 15.207:

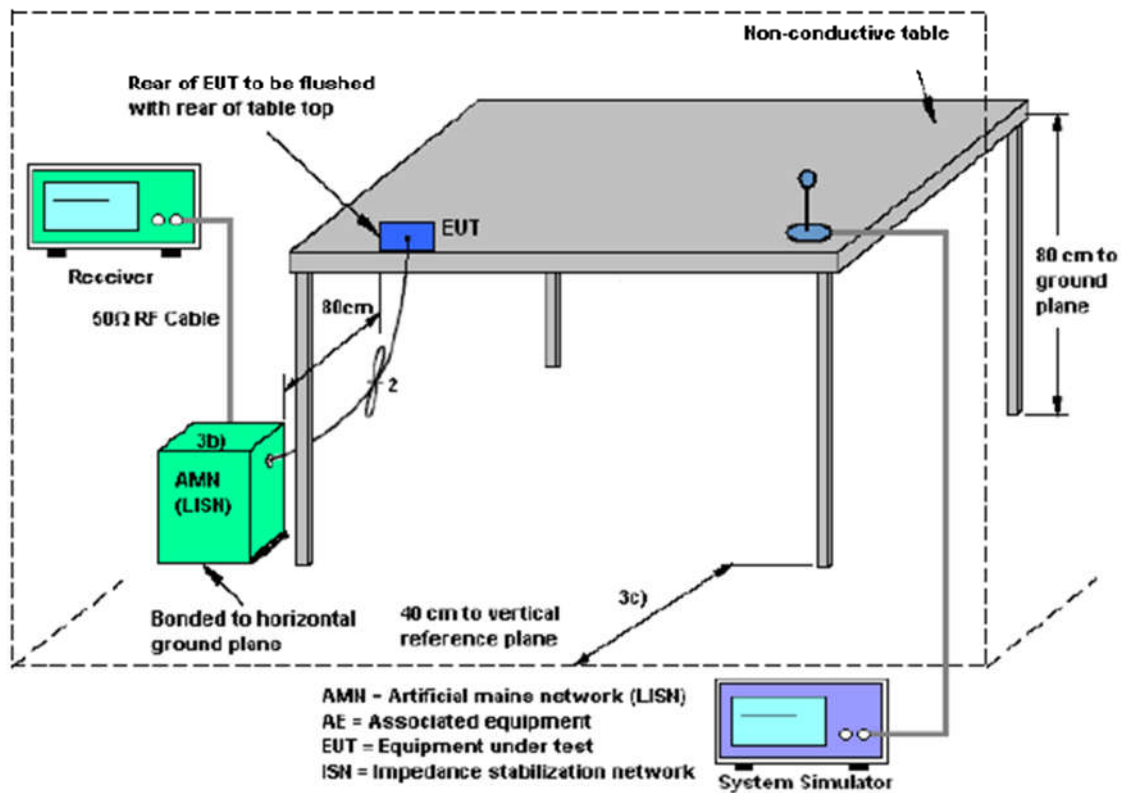
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

2.7.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3. Test Setup

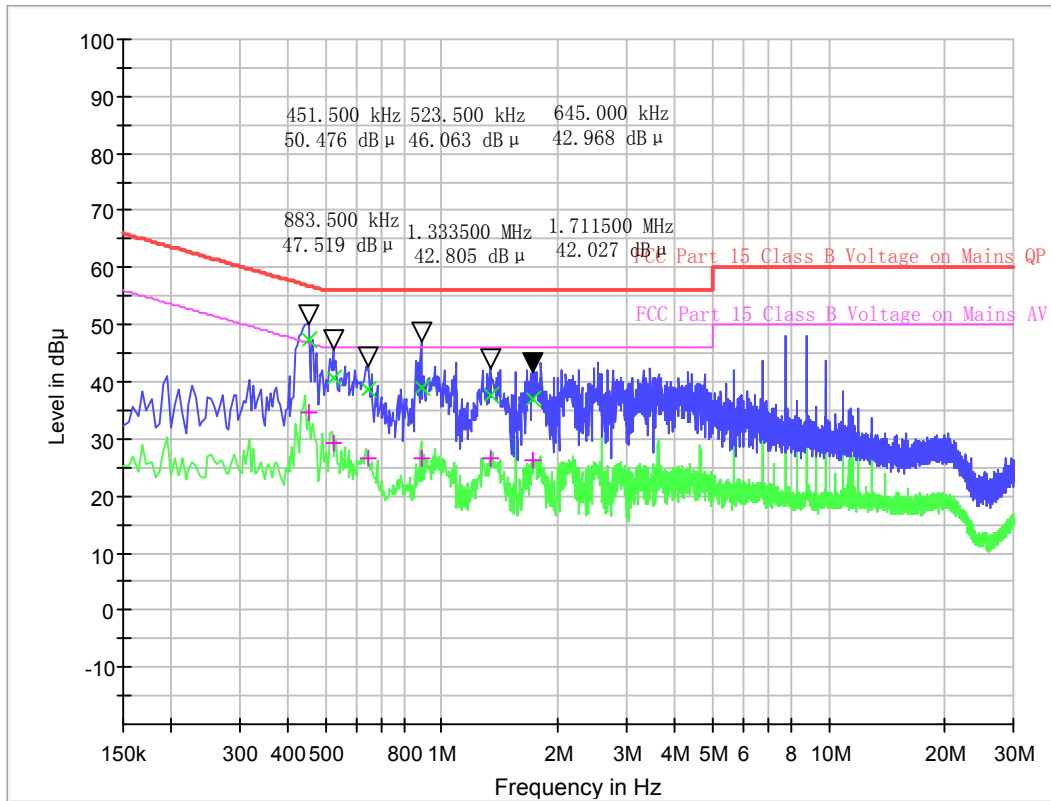


2.7.4. Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

2.7.5. Test Result of AC Power Line Conducted Emission

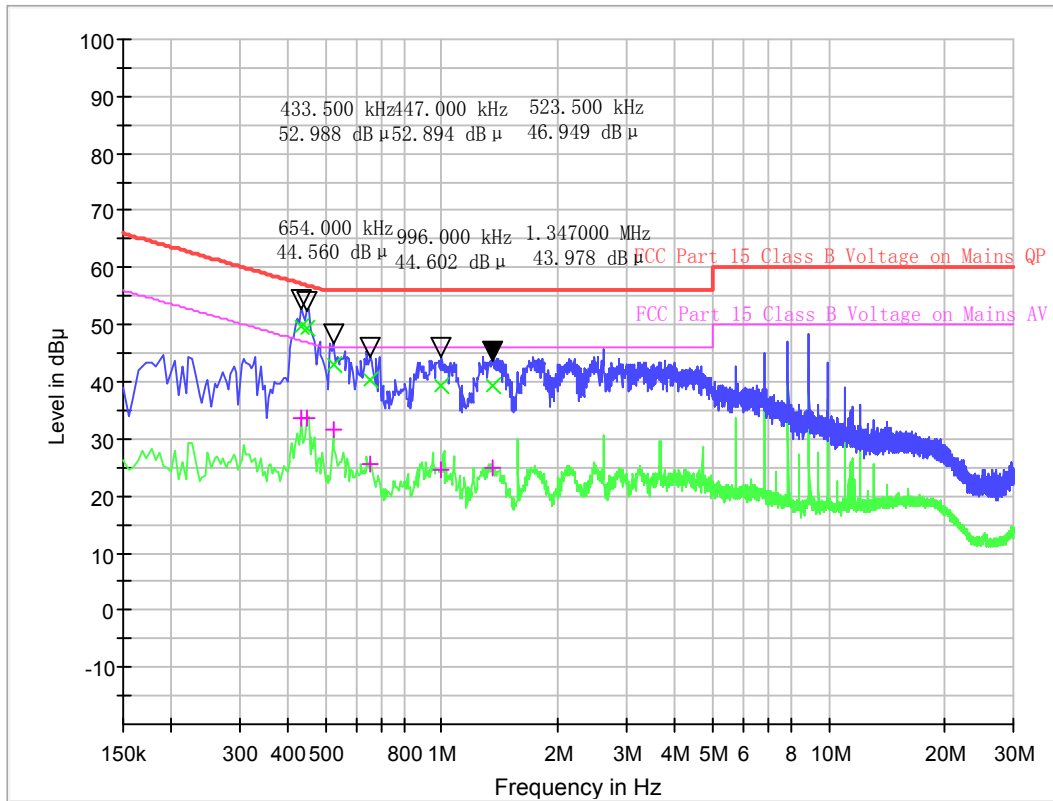
The EUT configuration of the emission tests is 5G WLAN Link + RJ45 Cable (Charging from Adapter)



(Plot A: L Phase)

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.451500	47.48	34.79	0.1	10.1	9.37	56.8	12.06	46.8
0.523500	40.62	29.22	0.1	10.1	15.38	56.0	16.78	46.0
0.645000	38.75	26.69	0.6	10.6	17.25	56.0	19.31	46.0
0.883500	38.88	26.64	0.6	10.6	17.12	56.0	19.36	46.0
1.333500	37.80	26.61	0.6	10.6	18.20	56.0	19.39	46.0
1.711500	36.95	26.13	0.7	10.7	19.05	56.0	19.87	46.0

Note: Correction factor=Cabel loss+ attenuation factor
attenuation factor=10dB



(Plot B: N Phase)

Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB µ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB µ V)
0.433500	49.58	33.63	0.1	10.1	7.61	57.2	13.56	47.2
0.447000	49.53	33.51	0.1	10.1	7.40	56.9	13.42	46.9
0.523500	42.94	31.55	0.6	10.6	13.06	56.0	14.45	46.0
0.654000	40.40	25.50	0.6	10.6	15.60	56.0	20.50	46.0
0.996000	39.24	24.68	0.6	10.6	16.76	56.0	21.32	46.0
1.347000	39.29	24.90	0.7	10.7	16.71	56.0	21.10	46.0

Note: Correction factor=Cabel loss+ attenuation factor
attenuation factor=10dB

Test Result : Pass

3. List of measuring equipment

Item	Description	Manufacturer	Model	Serial No.	Cal. Date	Due Date
1	EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2021.08.12	2022.08.01
2	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2019.03.25	2023.03.24
3	Loop Antenna	Schwarz beck	HFH2-Z2	A0304220	2019.04.26	2022.04.25
					2022.05.02	2025.05.01
4	Broadband antenna (30MHz~1GHz)	R&S	HL562	A0304224	2020.06.19	2023.06.18
5	EMI Horn Ant. (1-18G)	ETC	1209	A150402241	2021.01.02	2024.01.01
6	Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2020.06.19	2023.06.18
7	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2020.09.22	2023.09.21
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2021.12.23	2022.12.22
9	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2021.04.26	2022.04.25
					2022.03.25	2023.03.24
10	Test Receiver	R&S	ESIB7	A0501375	2021.05.24	2022.05.23
11	Broadband Ant.	2786	ETC	A150402240	2021.09.16	2024.03.03
12	3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2019.03.26	2023.03.25
13	Temperature chamber	TABAI	PS-232	A8708054	2021.09.24	2022.09.23
14	Wideband Radio Communication tester	R&S	CMW500	A130101034	2021.01.26	2023.01.25
15	Test Receiver	KEYSIGHT	N9038A	A141202036	2021.09.20	2022.08.04
16	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2021.09.21	2022.08.02
17	Cable	MATCHING PAD	W7	/	2021.08.01	2022.08.02

4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of AC Power Line Conducted Emission Measurement (150kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (9kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.5dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.91dB
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Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.9dB
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Uncertainty of RF Conducted Measurement (9kHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	1.2dB
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