

Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5210
Ant0



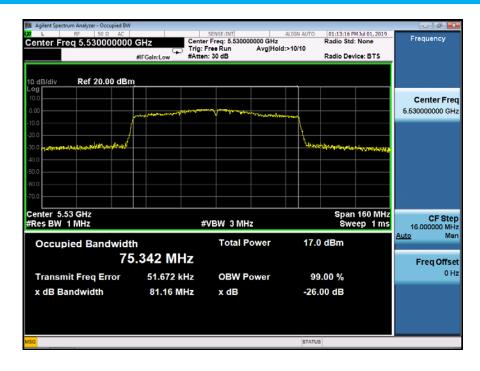


Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5290
Ant0





Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5530
Ant0



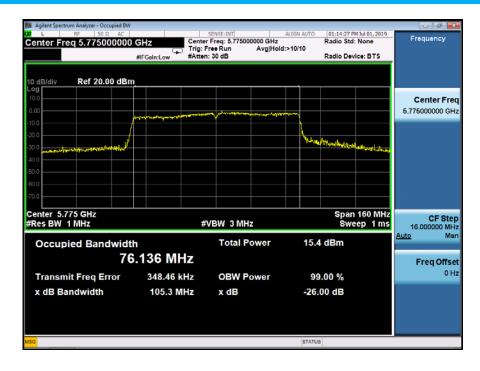


Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5610
Ant0





Emission Bandwidth&99% Occupied Bandwidth UNII Band III
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5775
Ant0





Minimum Emission Bandwidth UNII Band III
Test Model 802.11a mode Frequency(MHz) 5745
Ant0





Minimum Emission Bandwidth

Test Model 802.11a mode Frequency(MHz) 5785

Ant0





Minimum Emission Bandwidth UNII Band III
Test Model 802.11a mode Frequency(MHz) 5825
Ant0





Minimum Emission Bandwidth UNII Band III
Test Model 802.11n(VHT20) mode Frequency(MHz) 5745
Ant0





Minimum Emission Bandwidth

Test Model 802.11n(VHT20) mode Frequency(MHz)

Ant0

UNII Band III

5785





Minimum Emission Bandwidth UNII Band III
Test Model 802.11n(VHT20) mode Frequency(MHz) 5825
Ant0





Minimum Emission Bandwidth

Test Model 802.11ac(VHT20) mode Frequency(MHz)

Ant0

UNII Band III

5745



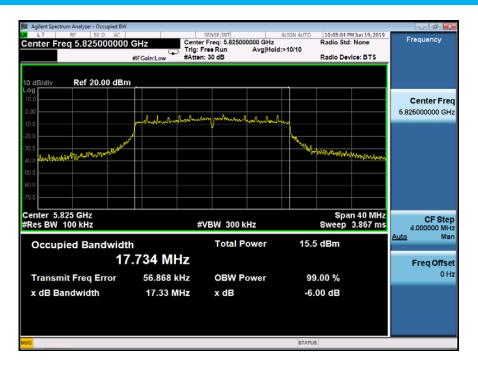


Minimum Emission Bandwidth UNII Band III
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5785
Ant0



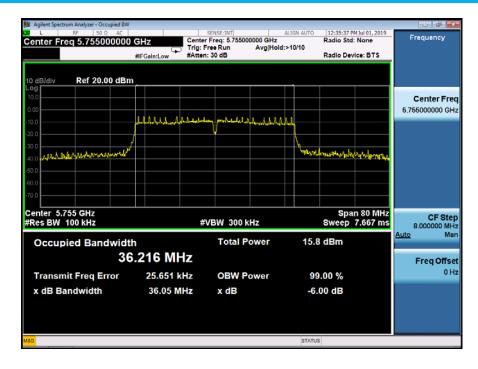


Minimum Emission Bandwidth UNII Band III
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5825
Ant0





Minimum Emission Bandwidth UNII Band III
Test Model 802.11n(VHT40) mode Frequency(MHz) 5755
Ant0





Minimum Emission Bandwidth

Test Model 802.11n(VHT40) mode Frequency(MHz)

Ant0

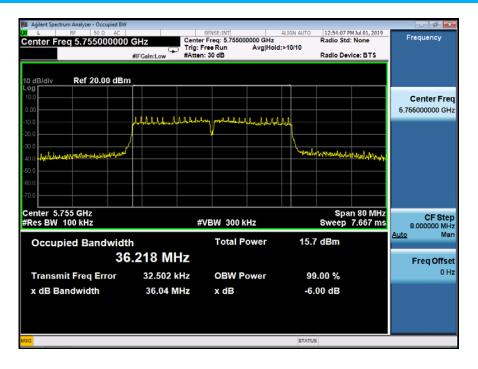
UNII Band III

5795





Minimum Emission Bandwidth
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5755
Ant0





Minimum Emission Bandwidth

Test Model 802.11ac(VHT40) mode Frequency(MHz)

Ant0

UNII Band III

5795

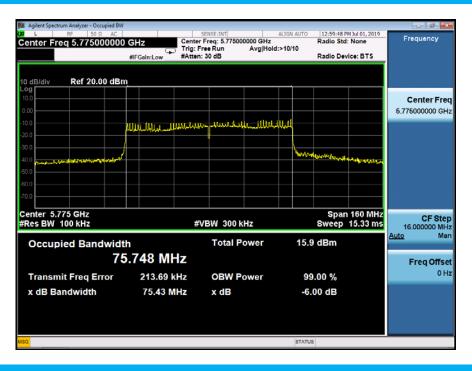




Minimum Emission Bandwidth UNII Band III

Test Model 802.11ac(VHT80) mode Frequency(MHz) 5775

Ant0





8.2 MAXIMUM CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C According to FCC Part 15.407(a)(3) for UNII Band III According to 789033 D02 Section II(E)

8.2.2 Conformance Limit

■ For the band 5.15-5.25 GHz,

- (a) (1) (i) For an outdoor 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. 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (a) (1) (ii) 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. 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.
- (a) (1) (iii) For fixed point-to-point access points 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. 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. 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.
- (a) (1) (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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

(a) (2) 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

(a) (3)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.

8.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

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8.2.4 Test Procedure

The maximum average conducted output power can be measured using Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

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

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8.2.5 Test Results

Temperature: 28℃ Test Date: June 19, 2019

Humidity: Test By: XW 65 %

Band	Channel Number	Channel Freq. (MHz)	Conducted Output Power(dBm)	Limit (dBm)	Verdict
			Ant0		
LINIII	CH36	5180	15.22	24	Pass
UNII Band I	CH40	5200	14.26	24	Pass
Dallu I	CH48	5240	12.46	24	Pass
LINIII	CH52	5260	11.73	24	Pass
UNII Band II-A	CH56	5280	11.96	24	Pass
Dallu II-A	CH64	5320	12.58	24	Pass
LINIII	CH100	5500	11.30	24	Pass
UNII Band II-C	CH120	5600	11.85	24	Pass
Dallu II-C	CH140	5700	10.63	24	Pass
LINIII	CH149	5745	11.85	30	Pass
UNII Band III	CH157	5785	12.21	30	Pass
Dailu III	CH165	5825	9.38	30	Pass
Noto:		•		_	

Note:

N/A (Not Applicable)

802.11n(HT20) mode Test Date : Temperature : **28**℃ June 19, 2019

Humidity: 65 % Test By: XW

Band	Channel Number	Channel Freq. (MHz)	Conducted Output Power(dBm)	Limit (dBm)	Verdict
			Ant0		
LINIII	CH36	5180	15.51	24	Pass
UNII Band I	CH40	5200	15.53	24	Pass
Dallu I	CH48	5240	13.81	24	Pass
LINIII	CH52	5260	13.36	24	Pass
UNII Band II-A	CH56	5280	13.63	24	Pass
Dallu II-A	CH64	5320	14.24	24	Pass
LINIII	CH100	5500	11.24	24	Pass
UNII Band II-C	CH120	5600	11.85	24	Pass
Ballu II-C	CH140	5700	10.78	24	Pass
LINIII	CH149	5745	11.91	30	Pass
UNII Band III	CH157	5785	12.20	30	Pass
Dailu III	CH165	5825	9.47	30	Pass
NI-4		·	·	·	

Note:

N/A (Not Applicable)



Temperature: 28°C Test Date: June 19, 2019

Humidity: 65 % Test By: XW

Band	Channel Number	Channel Freq. (MHz)	Conducted Output Power(dBm)	Limit (dBm)	Verdict
			Ant0		
UNII	CH36	5180	15.38	24	Pass
Band I	CH40	5200	14.99	24	Pass
Dallu I	CH48	5240	13.44	24	Pass
LINIII	CH52	5260	12.84	24	Pass
UNII Band II-A	CH56	5280	13.05	24	Pass
Dallu II-A	CH64	5320	13.80	24	Pass
LINII	CH100	5500	12.25	24	Pass
UNII Band II-C	CH120	5600	12.99	24	Pass
Dallu II-C	CH140	5700	11.93	24	Pass
LINII	CH149	5745	11.51	30	Pass
UNII	CH157	5785	12.02	30	Pass
Band III	CH165	5825	9.05	30	Pass

Note:

N/A (Not Applicable)

Temperature: 28°C Test Date: July 01, 2019

Humidity: 65 % Test By: XW

				T	1
Band	Channel	Channel	Conducted Output Power(dBm)	Limit	Verdict
	Number	Freq. (MHz)	Ant0	(dBm)	verdict
UNII	CH38	5190	13.17	24	Pass
Band I	CH46	5230	13.52	24	Pass
UNII	CH54	5270	12.19	24	Pass
Band II-A	CH62	5310	11.70	24	Pass
LINIII	CH102	5510	10.87	24	Pass
UNII Band II-C	CH118	5590	9.61	24	Pass
Bariu II-C	CH134	5670	8.83	24	Pass
UNII	CH151	5755	9.00	30	Pass
Band III	CH159	5795	9.60	30	Pass

Temperature : 28℃ Test Date : July 01, 2019

Humidity: 65 % Test By: XW

Band	Channel	Channel	Conducted Output Power(dBm)	Limit	Verdict
	Number	Freq. (MHz)	Ant0	(dBm)	Verdict
UNII	CH38	5190	13.07	24	Pass
Band I	CH46	5230	13.28	24	Pass
UNII	CH54	5270	12.11	24	Pass
Band II-A	CH62	5310	11.55	24	Pass
LINIII	CH102	5510	10.72	24	Pass
UNII Band II-C	CH118	5590	9.79	24	Pass
Dallu II-C	CH134	5670	9.13	24	Pass
UNII	CH151	5755	9.28	30	Pass
Band III	CH159	5795	9.35	30	Pass

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Temperature : 28°C Test Date : July 01, 2019

Humidity: 65 % Test By: XW

Band	Channel Number	Channel Freq. (MHz)	Conducted Output Power(dBm) Ant0	Limit (dBm)	Verdict
UNII Band I	CH42	5210	12.27 24		Pass
UNII Band II-A	CH58	5290	10.83	24	Pass
UNII	CH106	5530	9.65	24	Pass
Band II-C	CH122	5610	9.84	24	Pass
UNII Band III	CH155	5775	8.37	30	Pass

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8.3 MAXIMUM PEAK POWER DENSITY

8.3.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C According to FCC Part 15.407(a)(3) for UNII Band III According to 789033 D02 Section II(F)

8.3.2 Conformance Limit

■ For the band 5.15-5.25 GHz,

(a) (1) (i) For an outdoor 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. 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) 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. 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.

(a) (1) (iii) For fixed point-to-point access points 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. 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. 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.

(a) (1) (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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

(b) (2) 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

(a) (3)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.

8.3.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.3.4 Test Procedure

Methods refer to FCC KDB 789033

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- 1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...".
- 2) Use the peak search function on the instrument to find the peak of the spectrum.
- 3) The result is the PPSD.
- 4) The above procedures make use of 500kHz resolution bandwidth to satisfy the 500kHz measurement bandwidth specified in the 15.407(a)(5). That rule section also permits use of resolution bandwidths less than 1 MHz "provided that the measured power is integrated to show the total power over the measurement bandwidth" (i.e., 1 MHz). If measurements are performed using a reduced resolution bandwidth and integrated over 500kHz bandwidth

Note: As a practical matter, it is recommended to use reduced RBW of 500 kHz for the sections 5.c) and 5.d) above, since RBW=500 kHz is available on nearly all spectrum analyzers.

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8.3.5 Test Results

Temperature: 28℃ Test Date: July 01, 2019 Humidity: XW Test By: 65 %

Band	Channel	Channel	Power Spectral Density	Limit	Verdict
	Number	Freq. (MHz)	Ant0	LIIIIIL	verdict
UNII	CH36	5180	2.710	≤11dBm/1MHz	Pass
Band I	CH40	5200	2.921	≤11dBm/1MHz	Pass
Danu i	CH48	5240	1.302	≤11dBm/1MHz	Pass
LINIII	CH52	5260	-0.205	≤11dBm/1MHz	Pass
UNII Band II-A	CH56	5280	0.260	≤11dBm/1MHz	Pass
Dallu II-A	CH64	5320	1.063	≤11dBm/1MHz	Pass
UNII	CH100	5500	0.869	≤11dBm/1MHz	Pass
Band II-C	CH120	5600	1.131	≤11dBm/1MHz	Pass
Dallu II-C	CH140	5700	-0.131	≤11dBm/1MHz	Pass
UNII	CH149	5745	-2.442	≤30dBm/500KHz	Pass
Band III	CH157	5785	-1.702	≤30dBm/500KHz	Pass
Dallu III	CH165	5825	-5.000	≤30dBm/500KHz	Pass
Note:					

N/A (Not Applicable)

802.11n(VHT20) mode Test Date :

Temperature : **28**℃ July 01, 2019

Humidity: 65 % Test By: XW

Band	Channel	Channel	Power Spectral Density	Limit	Verdict
	Number	Freq. (MHz)	Ant0	LIIIIIL	verdict
UNII	CH36	5180	2.963	≤11dBm/1MHz	Pass
	CH40	5200	2.552	≤11dBm/1MHz	Pass
Band I	CH48	5240	1.396	≤11dBm/1MHz	Pass
LINIII	CH52	5260	0.572	≤11dBm/1MHz	Pass
UNII	CH56	5280	0.678	≤11dBm/1MHz	Pass
Band II-A	CH64	5320	0.905	≤11dBm/1MHz	Pass
UNII	CH100	5500	0.0087	≤11dBm/1MHz	Pass
Band II-C	CH120	5600	0.628	≤11dBm/1MHz	Pass
Dariu II-C	CH140	5700	-0.013	≤11dBm/1MHz	Pass
UNII	CH149	5745	-2.596	≤30dBm/500KHz	Pass
Band III	CH157	5785	-1.803	≤30dBm/500KHz	Pass
Dailu III	CH165	5825	-4.686	≤30dBm/500KHz	Pass
Motor	•	<u> </u>	<u> </u>	•	

Note:

N/A (Not Applicable)



Temperature : 28℃ Test Date : July 01, 2019

Humidity: 65 % Test By: XW

Band	Channel	Channel	Power Spectral Density	Limit	Verdict
	Number	Freq. (MHz)	Ant0	LIIIIL	verdict
UNII	CH36	5180	2.426	≤11dBm/1MHz	Pass
	CH40	5200	2.429	≤11dBm/1MHz	Pass
Band I	CH48	5240	0.758	≤11dBm/1MHz	Pass
LINII	CH52	5260	-0.219	≤11dBm/1MHz	Pass
UNII Band II-A	CH56	5280	-0.003	≤11dBm/1MHz	Pass
Dallu II-A	CH64	5320	0.792	≤11dBm/1MHz	Pass
UNII	CH100	5500	-0.129	≤11dBm/1MHz	Pass
Band II-C	CH120	5600	-2.220	≤11dBm/1MHz	Pass
Dariu II-C	CH140	5700	-0.531	≤11dBm/1MHz	Pass
UNII	CH149	5745	-2.761	≤30dBm/500KHz	Pass
Band III	CH157	5785	-2.483	≤30dBm/500KHz	Pass
Dailu III	CH165	5825	-5.354	≤30dBm/500KHz	Pass

Note:

N/A (Not Applicable)

⊠ 802.11n(VHT40) mode
 Test Date:

Temperature: 28°C Test Date: July 01, 2019

Band	Channel	Channel	Power Spectral Density	Limit	Verdict
	Number	Freq. (MHz)	Ant0	LIIIII	veruici
UNII	CH38	5190	-1.473	≤11dBm/1MHz	Pass
Band I	CH46	5230	-1.490	≤11dBm/1MHz	Pass
UNII	CH54	5270	-2.221	≤11dBm/1MHz	Pass
Band II-A	CH62	5310	-2.967	≤11dBm/1MHz	Pass
UNII	CH102	5510	-3.370	≤11dBm/1MHz	Pass
Band II-C	CH118	5590	-4.529	≤11dBm/1MHz	Pass
Ballu II-C	CH134	5670	-5.443	≤11dBm/1MHz	Pass
UNII	CH151	5755	-9.154	≤30dBm/500KHz	Pass
Band III	CH159	5795	-8.411	≤30dBm/500KHz	Pass



Temperature : 28℃ Test Date : July 01, 2019

Humidity: 65 % Test By: XW

Band	Channel	Channel	Power Spectral Density		
Danu				Limit	Verdict
	Number	Freq. (MHz)	Ant0	Liitiit	Vordiot
UNII	CH38	5190	-1.798	≤11dBm/1MHz	Pass
Band I	CH46	5230	-1.614	≤11dBm/1MHz	Pass
UNII	CH54	5270	-2.510	≤11dBm/1MHz	Pass
Band II-A	CH62	5310	-3.461	≤11dBm/1MHz	Pass
UNII	CH102	5510	-3.609	≤11dBm/1MHz	Pass
Band II-C	CH118	5590	-5.172	≤11dBm/1MHz	Pass
Danu II-C	CH134	5670	-5.713	≤11dBm/1MHz	Pass
UNII	CH151	5755	-9.294	≤30dBm/500KHz	Pass
Band III	CH159	5795	-8.430	≤30dBm/500KHz	Pass

Temperature : 28°C Test Date : July 01, 2019

Band	Channel Number	Channel Freq. (MHz)	Power Spectral Density Ant0	Limit	Verdict
UNII Band I	CH42	5210	-5.069	≤11dBm/1MHz	Pass
UNII Band II-A	CH58	5290	-7.228	≤11dBm/1MHz	Pass
UNII	CH106	5530	-6.893	≤11dBm/1MHz	Pass
Band II-C	CH122	5610	-6.947	≤11dBm/1MHz	Pass
UNII Band III	CH155	5775	-12.848	≤30dBm/500KHz	Pass



8.4 FREQUENCY STABILITY

8.4.1 Applicable Standard

According to FCC Part 15.407(g) ANSI C63.10 Section 6.8

8.4.2 Conformance Limit

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.

8.4.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.4.4 Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 10 kHz.

Set the video bandwidth (VBW) =30 kHz.

Set Span= Entire absence of modulation emissions bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

Beginning at each temperature level specified in user manual, the frequency shall be measured within one minute after application of primary power to the transmitter and at intervals of no more than one minute thereafter until ten minutes have elapsed or until sufficient measurements are obtained to indicate clearly that the frequency has stabilized within the applicable tolerance, whichever time period is greater. During each test, the ambient temperature shall not be allowed to rise more than 10° centigrade above the respective beginning ambient temperature level

Measure and record the results in the test report.

8.4.5 Test Results

Two antenna have been tested, and the worst results have been recorded in the report.

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Temperature: -- Test Date: June 19, 2019

Humidity: 65 % Test By: XW

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	-20	5179.999	-1.000	Pass
	-10	5179.999	-1.000	Pass
	0	5179.999	-1.000	Pass
\ /n a ma	10	5179.997	-3.000	Pass
Vnom	20	5179.998	-2.000	Pass
	30	5179.997	-3.000	Pass
	40	5179.996	-4.000	Pass
	50	5179.996	-4.000	Pass
85% Vnom	20	5179.999	-1.000	Pass
115% Vnom	20	5179.998	-2.000	Pass

Antenna 0 5200

Temperature: -- Test Date: June 19, 2019

Humidity: 65 % Test By: XW

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	-20	5199.990	-10.000	Pass
	-10	5199.990	-10.000	Pass
	0	5199.991	-9.000	Pass
Vnom	10	5199.991	-9.000	Pass
Vnom	20	5200.004	4.000	Pass
	30	5199.989	-11.000	Pass
	40	5199.990	-10.000	Pass
	50	5199.987	-13.000	Pass
85% Vnom	20	5199.991	-9.000	Pass
115% Vnom	20	5199,991	-9,000	Pass

Antenna 0 5240

Temperature: -- Test Date: June 19, 2019

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	-20	5239.998	-2.000	Pass
	-10	5239.997	-3.000	Pass
	0	5239.998	-2.000	Pass
Vnom	10	5239.997	-3.000	Pass
VIIOIII	20	5239.995	-5.000	Pass
	30	5239.997	-3.000	Pass
	40	5239.993	-7.000	Pass
	50	5239.995	-5.000	Pass
85% Vnom	20	5239.998	-2.000	Pass
115% Vnom	20	5239.997	-3.000	Pass



Temperature: -- Test Date: June 19, 2019

Humidity: 65 % Test By: XW

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	-20	5260.004	4.000	Pass
	-10	5260.007	7.000	Pass
	0	5260.006	6.000	Pass
Vacan	10	5260.007	7.000	Pass
Vnom	20	5260.006	6.000	Pass
	30	5260.007	7.000	Pass
	40	5260.004	4.000	Pass
	50	5260.008	8.000	Pass
85% Vnom	20	5260.007	7.000	Pass
115% Vnom	20	5260.005	5.000	Pass

Antenna 0 5280

Temperature : -- Test Date : June 19, 2019

Humidity: 65 % Test By: XW

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	-20	5280.005	5.000	Pass
	-10	5280.006	6.000	Pass
	0	5280.010	10.000	Pass
Vnom	10	5280.009	9.000	Pass
VIIOIII	20	5280.008	8.000	Pass
	30	5280.004	4.000	Pass
	40	5280.009	9.000	Pass
	50	5280.006	6.000	Pass
85% Vnom	20	5280.005	5.000	Pass
115% Vnom	20	5280.009	9.000	Pass

Antenna 0 5320

Temperature : -- Test Date : June 19, 2019

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	-20	5319.989	-11.000	Pass
	-10	5319.987	-13.000	Pass
	0	5319.989	-11.000	Pass
Vnom	10	5319.985	-15.000	Pass
VIIOIII	20	5319.989	-11.000	Pass
	30	5319.985	-15.000	Pass
	40	5319.989	-11.000	Pass
	50	5319.987	-13.000	Pass
85% Vnom	20	5319.989	-11.000	Pass
115% Vnom	20	5319.989	-11.000	Pass



Temperature: -- Test Date: June 19, 2019

Humidity: 65 % Test By: XW

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	-20	5500.002	2.000	Pass
	-10	5500.003	3.000	Pass
	0	5500.004	4.000	Pass
\	10	5500.004	4.000	Pass
Vnom	20	5500.003	3.000	Pass
	30	5500.003	3.000	Pass
	40	5500.000	0.000	Pass
	50	5500.000	0.000	Pass
85% Vnom	20	5500.004	4.000	Pass
115% Vnom	20	5500.002	2.000	Pass

Antenna 0 5600

Temperature : -- Test Date : June 19, 2019

Humidity: 65 % Test By: XW

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	-20	5600.009	9.000	Pass
	-10	5600.010	10.000	Pass
	0	5600.010	10.000	Pass
Vnom	10	5600.009	9.000	Pass
VIIOIII	20	5600.012	12.000	Pass
	30	5600.010	10.000	Pass
	40	5600.009	9.000	Pass
	50	5600.012	12.000	Pass
85% Vnom	20	5600.011	11.000	Pass
115% Vnom	20	5600.009	9.000	Pass

Antenna 0 5700

Temperature : -- Test Date : June 19, 2019

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	-20	5699.994	-6.000	Pass
	-10	5699.995	-5.000	Pass
	0	5699.993	-7.000	Pass
Vnom	10	5699.994	-6.000	Pass
VIIOIII	20	5699.993	-7.000	Pass
	30	5699.992	-8.000	Pass
	40	5699.993	-7.000	Pass
	50	5699.996	-4.000	Pass
85% Vnom	20	5699.993	-7.000	Pass
115% Vnom	20	5699.993	-7.000	Pass



Temperature : -- Test Date : May04, 2017

Humidity: 65 % Test By: XW

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	-20	5745.001	1.000	Pass
	-10	5745.000	0.000	Pass
	0	5745.003	3.000	Pass
\	10	5745.004	4.000	Pass
Vnom	20	5745.005	5.000	Pass
	30	5745.002	2.000	Pass
	40	5745.001	1.000	Pass
	50	5745.003	3.000	Pass
85% Vnom	20	5745.003	3.000	Pass
115% Vnom	20	5745.003	3.000	Pass

Antenna 0 5785

Temperature : -- Test Date : June 19, 2019

Humidity: 65 % Test By: XW

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	-20	5785.000	0.000	Pass
	-10	5785.002	2.000	Pass
	0	5785.004	4.000	Pass
Vnom	10	5785.003	3.000	Pass
VIIOIII	20	5785.003	3.000	Pass
	30	5785.005	5.000	Pass
	40	5785.003	3.000	Pass
	50	5785.006	6.000	Pass
85% Vnom	20	5785.006	6.000	Pass
115% Vnom	20	5785.006	6.000	Pass

Antenna 0 5825

Temperature : -- Test Date : June 19, 2019

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	-20	5824.998	-2.000	Pass
	-10	5824.996	-4.000	Pass
	0	5824.997	-3.000	Pass
Vnom	10	5824.994	-6.000	Pass
VIIOIII	20	5824.993	-7.000	Pass
	30	5824.995	-5.000	Pass
	40	5824.998	-2.000	Pass
	50	5824.995	-5.000	Pass
85% Vnom	20	5824.994	-6.000	Pass
115% Vnom	20	5824.999	-1.000	Pass



8.5 UNDESIRABLE RADIATED SPURIOUS EMISSION

8.5.1 Applicable Standard

According to FCC Part 15.407 (b) According to 789033 D02 Section II(G)

8.5.2 Conformance Limit

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.

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.

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.

For transmitters operating in the 5.725-5.85 GHz band: 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.

The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209 The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	2400/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The provisions of §15.205 apply to intentional radiators operating under this section,15.205 Restricted bands of operation

or operation			
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	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	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			

- Remark: 1. Emission level in dBuV/m=20 log (uV/m)
 - 2. Measurement was performed at an antenna to the closed point of EUT distance of
 - 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

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8.5.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

8.5.4 Test Procedure

■ Unwanted Emissions Measurements below 1000 MHz

Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

The EUT was placed on a turn table which is 0.8m above ground plane.

And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

Repeat above procedures until all frequency measured was complete.

We use software control the EUT, Let EUT hopping on and transmit with highest power, All the modes have been tested and the worst result was reported.

Use the following spectrum analyzer settings:

Set RBW=120kHz for f < 1 GHz(30MHz to 1GHz), 200Hz for f<150KHz(9KHz to 150KHz), 9KHz for <30MHz (150KHz to 30KHz).

Set the VBW > RBW.

Detector = Peak.

Trace mode = max hold.

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data. Repeat above procedures until all frequency measured was complete.

■ Unwanted Maximum peak Emissions Measurements above 1000 MHz

Maximum emission levels are measured by setting the analyzer as follows:

RBW = 1 MHz.

VBW ≥ 3 MHz.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

■ Unwanted Average Emissions Measurements above 1000 MHz

Method VB (Averaging using reduced video bandwidth): Alternative method.

RBW = 1 MHz.

Video bandwidth. • If the EUT is configured to transmit with duty cycle ≥ 98 percent, set VBW ≤ RBW/100 (i.e., 10 kHz) but not less than 10 Hz.

• If the EUT duty cycle is < 98 percent, set VBW ≥ 1/T, where T is defined in section II.B.1.a).

Video bandwidth mode or display mode • The instrument shall be set to ensure that video filtering is applied in the power domain. Typically, this requires setting the detector mode to RMS and setting the Average-VBW Type to Power (RMS).

• As an alternative, the analyzer may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some analyzers require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle. For example, use at least 200 traces if the duty cycle is 25 percent. (If a specific emission is demonstrated to be continuous—i.e., 100 percent duty cycle—rather than turning on and off with the transmit cycle, at least 50 traces shall be averaged.)

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Band edge measurements.

Unwanted band-edge emissions may be measured using either of the special band-edge measurement techniques (the marker-delta or integration methods) described below. Note that the marker-delta method is primarily a radiated measurement technique that requires the 99% occupied bandwidth edge to be within 2 MHz of the authorized band edge, whereas the integration method can be used in either a radiated or conducted measurement without any special requirement with regards to the displacement of the unwanted emission(s) relative to the authorized bandwidth.

Marker-Delta Method.

The marker-delta method, as described in ANSI C63.10, can be used to perform measurements of the radiated unwanted emissions level of emissions provided that the 99% occupied bandwidth of the fundamental is within 2 MHz of the authorized band-edge.

8.5.5 Test Results

■ ☑For Undesirable radiated Spurious Emission in UNII Band I The modes 802.11a/n/ac has been tested and the worst result recorded as below:

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☑Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

Temperature: 28℃ Test Date: June 19, 2019

65 % Humidity: Test By: XW Test mode: 802.11a Frequency(MHz): 5180

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
5877.50	V	53.84	-41.39	-27.00	-14.39
8472.74	V	55.32	-39.91	-27.00	-12.91
11953.82	V	60.67	-34.56	-27.00	-7.56
6247.14	Н	52.15	-43.08	-27.00	-16.08
8932.00	Н	59.24	-35.99	-27.00	-8.99
12250.73	Н	62.28	-32.95	-27.00	-5.95

Temperature: Test Date: June 19, 2019 28℃

Humidity: 65 % Test By: XW Test mode: 802.11a Frequency(MHz): 5220

Freq.	Ant.Pol.	Field Strength	E.I.R.P	Limit (dBm)	Over(dB)
(MHz)	H/V	(dBuV/m)	(dBm)	Lillit (ubili)	Over(ub)
6387.75	V	55.18	-40.05	-27.00	-13.05
8983.94	V	58.15	-37.08	-27.00	-10.08
11953.49	V	64.21	-31.02	-27.00	-4.02
5871.00	Н	53.64	-41.59	-27.00	-14.59
9763.84	Н	62.4	-32.83	-27.00	-5.83
12913.39	Н	65.45	-32.78	-27.00	-5.78

Test Date: Temperature: 28℃ June 19, 2019

Humidity: 65 % Test By: XW Test mode: 802.11a 5240 Frequency(MHz):

Freq.	Ant.Pol.	Field Strength	E.I.R.P	Limit (dBm)	Over(dB)
(MHz)	H/V	(dBuV/m)	(dBm)	LIIIII (UDIII)	Over(dB)
6689.45	V	57.58	-37.65	-27.00	-10.65
8617.02	V	57.48	-37.75	-27.00	-10.75
11773.07	V	64.00	-31.23	-27.00	-4.23
5887.11	Н	52.79	-42.44	-27.00	-15.44
9356.64	Н	60.89	-34.34	-27.00	-7.34
12682.79	Н	64.99	-31.24	-27.00	-4.24

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

(2) EIRP[dBm] = E[dBµV/m] + 20 log(d[meters]) - 104.77 d is the measurement distance in 3 meters



● ⊠Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

Temperature : 28℃ Test Date : June 19, 2019

Humidity: 65 % Test By: XW Test mode: 802.11a Frequency(MHz): 5180

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5146.783	V	66.97	-28.26	-27.00	Pass
5174.140	Н	65.66	-29.57	-27.00	Pass

Temperature : 28°C Test Date : June 19, 2019

Humidity: 65 % Test By: XW
Test mode: 802.11a Frequency(MHz): 5240

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5352.530	V	53.61	-41.62	-27.00	Pass
5352.530	Н	40.05	-55.18	-27.00	Pass

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

(2) EIRP[dBm] = E[dB μ V/m] + 20 log(d[meters]) - 104.77

d is the measurement distance in 3 meters



■ ∑For Undesirable radiated Spurious Emission in UNII Band II-A All the modes 802.11a/n/ac has been tested and the worst result 802.11a recorded as below:

● ☐ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

Temperature : 28° Test Date : June 15, 2019

Humidity: 65 % Test By: XW
Test mode: 802.11a Frequency(MHz): 5260

	1				
Freq.	Ant.Pol.	Field Strength	E.I.R.P	Limit (dBm)	Over(dB)
(MHz)	H/V	(dBuV/m)	(dBm)	Limit (ubin)	Over(ub)
6206.75	V	55.31	-39.92	-27.00	-12.92
8758.56	V	56.57	-38.66	-27.00	-11.66
12022.10	V	62.33	-32.90	-27.00	-5.90
6461.73	Н	52.25	-42.98	-27.00	-15.98
9519.60	Н	61.48	-33.75	-27.00	-6.75
12871.44	Н	62.56	-32.67	-27.00	-5.67

Temperature : 28° Test Date : June 15, 2019

Humidity: 65 % Test By: XW
Test mode: 802.11a Frequency(MHz): 5280

Freq.	Ant.Pol.	Field Strength	E.I.R.P	Limit (dBm)	Over(dB)
(MHz)	H/V	(dBuV/m)	(dBm)	Limit (abiii)	O VOI (GB)
5882.62	V	54.07	-41.16	-27.00	-14.16
8890.88	V	58.26	-36.97	-27.00	-9.97
11910.26	V	64.25	-30.98	-27.00	-3.98
6029.06	Н	52.56	-42.67	-27.00	-15.67
9279.34	Н	59.6	-35.63	-27.00	-8.63
12374.57	Н	63.53	-31.70	-27.00	-4.70

Temperature : 28° Test Date : June 15, 2019

Humidity: 65 % Test By: XW
Test mode: 802.11a Frequency(MHz): 5320

Freq.	Ant.Pol.	Field Strength	E.I.R.P	Limit (dBm)	Over(dB)
(MHz)	H/V	(dBuV/m)	(dBm)	Lillit (dbill)	Over(ub)
6490.63	V	55.45	-39.78	-27.00	-12.78
8854.82	V	55.58	-39.65	-27.00	-12.65
12771.27	V	63.4	-31.83	-27.00	-4.83
5676.51	Н	53.03	-42.20	-27.00	-15.20
9118.21	Н	62.13	-33.10	-27.00	-6.10
12060.14	Н	59.64	-35.59	-27.00	-8.59

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

(2) EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77 d is the measurement distance in 3 meters

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● ☑Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

Temperature : 28℃ Test Date : June 15, 2019

Humidity: 65 % Test By: XW Test mode: 802.11a Frequency(MHz): 5260

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5147.90	V	53.15	-42.08	-27.00	Pass
5149.95	Н	55.62	-39.61	-27.00	Pass

Temperature : 28°C Test Date : June 15, 2019

Humidity: 65 % Test By: XW
Test mode: 802.11a Frequency(MHz): 5320

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5355.50	V	54.04	-41.19	-27.00	Pass
5351.75	Н	53.80	-41.43	-27.00	Pass

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

(2) EIRP[dBm] = E[dB μ V/m] + 20 log(d[meters]) - 104.77

d is the measurement distance in 3 meters



■ ⊠For Undesirable radiated Spurious Emission in UNII Band II-C

All the modes 802.11a/n/ac has been tested and the worst result 802.11a recorded as below:

● ☑Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

Temperature : 28℃ Test Date : June 15, 2019

Humidity: 65 % Test By: XW
Test mode: 802.11a Frequency(MHz): 5500

Freq.	Ant.Pol.	Field Strength	E.I.R.P	Limit (dBm)	Over(dB)
(MHz)	H/V	(dBuV/m)	(dBm)	Lillit (abili)	Over(ub)
6385.22	V	54.23	-41.00	-27.00	-14.00
9634.40	V	55.72	-39.51	-27.00	-12.51
13060.91	V	62.18	-33.05	-27.00	-6.05
5988.04	Н	52.79	-42.44	-27.00	-15.44
10254.87	Н	58.93	-36.30	-27.00	-9.30
13216.58	Н	61.8	-33.43	-27.00	-6.43

Temperature : 28° Test Date : June 15, 2019

Humidity: 65 % Test By: XW Test mode: 802.11a Frequency(MHz): 5600

Freq.	Ant.Pol.	Field Strength	E.I.R.P	Limit (dBm)	Over(dB)
(MHz)	H/V	(dBuV/m)	(dBm)	- (-)	(-)
7038.58	V	54.74	-40.49	-27.00	-13.49
9474.75	V	56.19	-39.04	-27.00	-12.04
12599.25	V	61.85	-33.38	-27.00	-6.38
5960.81	Н	53.72	-41.51	-27.00	-14.51
9892.51	Н	58.79	-36.44	-27.00	-9.44
13309.92	Н	62.66	-32.57	-27.00	-5.57

Temperature : 28° Test Date : June 15, 2019

Humidity: 65 % Test By: XW Test mode: 802.11a Frequency(MHz): 5700

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
6281.86	V	53.32	-41.91	-27.00	-14.91
8853.42	V	56.56	-38.67	-27.00	-11.67
12607.94	V	61.54	-33.69	-27.00	-6.69
6726.83	Н	53.31	-41.92	-27.00	-14.92
9842.54	Н	60.86	-34.37	-27.00	-7.37
12684.05	Н	60.80	-34.43	-27.00	-7.43

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

(2) EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77 d is the measurement distance in 3 meters

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Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

Temperature : 28° C Test Date : June 15, 2019 Humidity : 65° % Test By: XW Test mode: 802.11a Frequency(MHz): 5260

	req. IHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
546	6.845	V	64.20	-31.03	-27.00	Pass
546	6.840	Н	64.28	-30.95	-27.00	Pass

Temperature : 28° Test Date : June 15, 2019 Humidity : 65° Test By: XW Test mode: 802.11a Frequency(MHz): 5320

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict	
5725.078	V	65.04	-30.19	-27.00	Pass	
5726.028	Н	63.95	-31.28	-27.00	Pass	

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

⁽²⁾ EIRP[dBm] = E[dB μ V/m] + 20 log(d[meters]) - 104.77

d is the measurement distance in 3 meters



■ ⊠For Undesirable radiated Spurious Emission in UNII Band III

All the modes 802.11a/n/ac has been tested and the worst result 802.11a recorded as below:

● ☑Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

Temperature: 28°C Test Date: June 15, 2019

Humidity: 65 % Test By: XW
Test mode: 802.11a Frequency(MHz): 5745

Freq.	Ant.Pol.	Field Strength	E.I.R.P	Limit (dBm)	Over(dB)
(MHz)	H/V	(dBuV/m)	(dBm)	Lilliit (dDill)	Over(ub)
6821.09	V	53.26	-41.97	-27.00	-14.97
9613.39	V	56.81	-38.42	-27.00	-11.42
12245.32	V	61.45	-33.78	-27.00	-6.78
6565.17	Н	52.48	-42.75	-27.00	-15.75
9801.88	Н	61.35	-33.88	-27.00	-6.88
12631.61	Н	60.8	-34.43	-27.00	-7.43

Temperature : 28°C Test Date : June 15, 2019

Humidity: 65 % Test By: XW Test mode: 802.11a Frequency(MHz): 5785

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
6862.78	V	53.99	-41.24	-27.00	-14.24
9640.18	V	57.47	-37.76	-27.00	-10.76
12770.39	V	60.39	-34.84	-27.00	-7.84
6085.82	Н	53.68	-41.55	-27.00	-14.55
9839.03	Н	59.16	-36.07	-27.00	-9.07
12362.72	Н	60.24	-34.99	-27.00	-7.99

Temperature : 28°C Test Date : June 15, 2019

Humidity: 65 % Test By: XW Test mode: 802.11a Frequency(MHz): 5825

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7050.74	V	55.65	-39.58	-27.00	-12.58
9690.45	V	56.33	-38.9	-27.00	-11.9
12515.24	V	62.19	-33.04	-27.00	-6.04
6042.77	Н	51.31	-43.92	-27.00	-16.92
9831.4	Н	59.17	-36.06	-27.00	-9.06
13124.53	Н	61.24	-33.99	-27.00	-6.99

Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

(2) EIRP[dBm] = E[dB μ V/m] + 20 log(d[meters]) - 104.77

d is the measurement distance in 3 meters

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● ⊠Undesirable radiated Spurious Emission in band edge

 Temperature :
 28 ℃
 Test Date :
 June 15, 2019

 Humidity :
 65 %
 Test By:
 XW

 Test mode:
 802.11a
 Frequency:
 5745

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5723.200	V	76.80	-18.43	25.58	PASS
5723.012	Н	85.67	-9.56	27.00	PASS

 Temperature :
 28℃
 Test Date :
 June 15, 2019

 Humidity :
 65 %
 Test By:
 XW

 Test mode:
 802.11a
 Frequency:
 5825

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5850.906	V	72.34	-22.89	27.00	PASS
5850.856	Н	64.06	-31.17	27.00	PASS

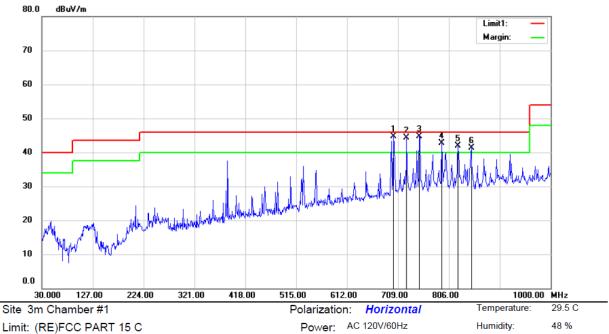
Note: (1) Emission Level= Reading Level+Probe Factor +Cable Loss.

(2) EIRP[dBm] = E[dB μ V/m] + 20 log(d[meters]) - 104.77

d is the measurement distance in 3 meters



Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz) All mode have been tested, and the worst results have been recorded in the report.



Limit: (RE)FCC PART 15 C

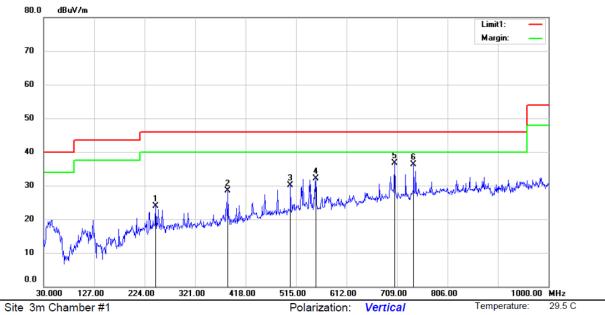
Mode:TX 5180MHz

No.	М	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	ļ	70	00.2700	45.71	-1.04	44.67	46.00	-1.33	QP			
2	ļ	72	25.4900	44.88	-0.64	44.24	46.00	-1.76	QP			
3	*	74	49.7400	44.97	-0.25	44.72	46.00	-1.28	QP			
4	į	79	92.4200	42.57	0.18	42.75	46.00	-3.25	QP			
5	ļ	82	23.4600	41.44	0.48	41.92	46.00	-4.08	QP			
6	ļ	84	48.6800	40.30	0.92	41.22	46.00	-4.78	QP			



Humidity:

48 %



Power: AC 120V/60Hz

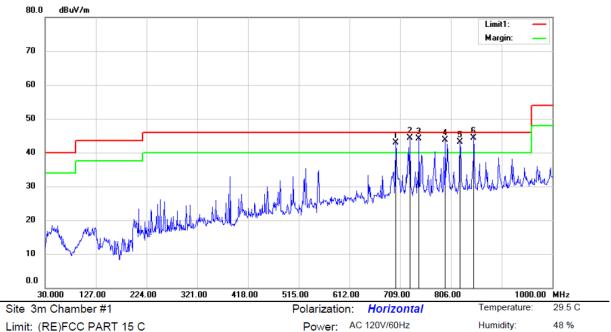
Limit: (RE)FCC PART 15 C

Limit: (IXL)I OO I AIXI IS

Mode:TX 5180MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		245.3400	33.97	-10.01	23.96	46.00	-22.04	QP			
2		384.0500	34.90	-6.43	28.47	46.00	-17.53	QP			
3		504.3300	34.79	-4.68	30.11	46.00	-15.89	QP			
4		552.8300	35.87	-3.79	32.08	46.00	-13.92	QP			
5	*	704.1500	37.72	-0.97	36.75	46.00	-9.25	QP			
6		741.0100	36.65	-0.34	36.31	46.00	-9.69	QP			

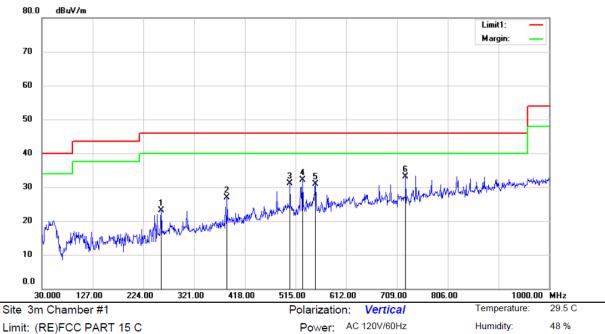




Mode:TX 5200MHz

No.	M	۱k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	ļ	7	00.2700	44.03	-1.04	42.99	46.00	-3.01	QP			
2	*	7:	27.4300	44.87	-0.60	44.27	46.00	-1.73	QP			
3	ļ	7	44.8900	44.41	-0.30	44.11	46.00	-1.89	QP			
4	ļ	7	95.3300	43.40	0.22	43.62	46.00	-2.38	QP			
5	ļ	8	23.4600	42.70	0.48	43.18	46.00	-2.82	QP			
6	ļ	8	49.6500	43.34	0.93	44.27	46.00	-1.73	QP			

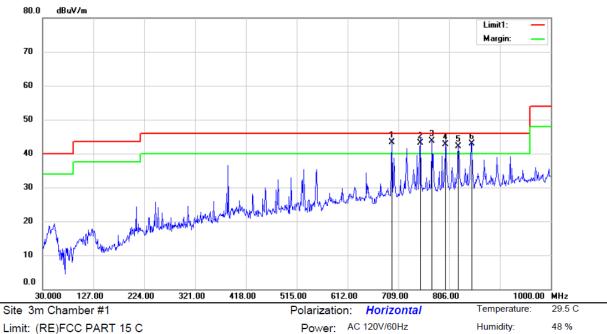




Mode:TX 5200MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		257.9500	32.57	-9.56	23.01	46.00	-22.99	QP			
2		384.0500	33.28	-6.43	26.85	46.00	-19.15	QP			
3		504.3300	35.81	-4.68	31.13	46.00	-14.87	QP			
4		528.5800	36.21	-4.17	32.04	46.00	-13.96	QP			
5		552.8300	34.63	-3.79	30.84	46.00	-15.16	QP			
6	*	725.4900	33.82	-0.64	33.18	46.00	-12.82	QP			

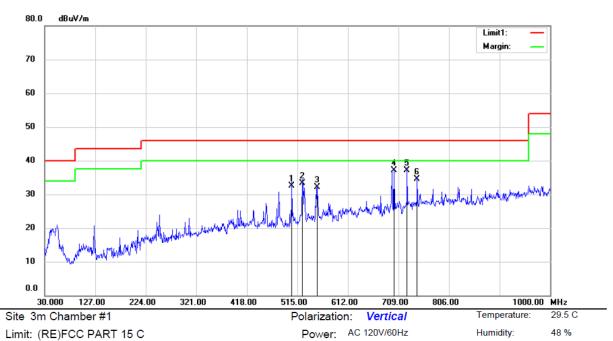




Mode:TX 5240MHz

No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	ļ	69	96.3900	44.38	-1.10	43.28	46.00	-2.72	QP			
2	ļ	75	50.7100	43.43	-0.24	43.19	46.00	-2.81	QP			
3	*	77	73.0200	43.67	0.04	43.71	46.00	-2.29	QP			
4	İ	79	99.2100	42.41	0.27	42.68	46.00	-3.32	QP			
5	ļ	82	23.4600	41.53	0.48	42.01	46.00	-3.99	QP			
6	ļ	84	18.6800	42.02	0.92	42.94	46.00	-3.06	QP			

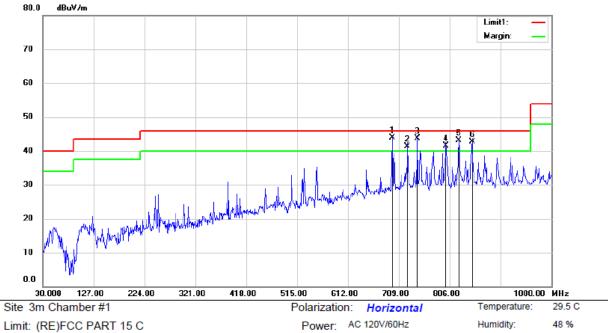




Mode:TX 5240MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		504.3300	37.26	-4.68	32.58	46.00	-13.42	QP			
2		524.7000	37.56	-4.27	33.29	46.00	-12.71	QP			
3		552.8300	35.98	-3.79	32.19	46.00	-13.81	QP			
4		700.2700	38.10	-1.04	37.06	46.00	-8.94	QP			
5	*	725.4900	37.77	-0.64	37.13	46.00	-8.87	QP			
6		744.8900	34.85	-0.30	34.55	46.00	-11.45	QP			

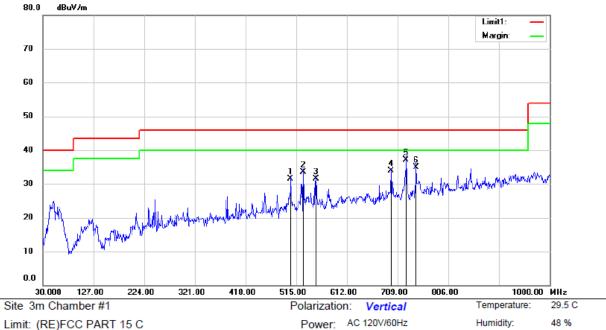




Mode: TX 5260MHz

No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	696	3.3900	44.94	-1.10	43.84	46.00	-2.16	QP			
2	ļ	72	5.4900	41.93	-0.64	41.29	46.00	-4.71	QP			
3	İ	744	4.8900	43.98	-0.30	43.68	46.00	-2.32	QP			
4	İ	799	9.2100	41.22	0.27	41.49	46.00	-4.51	QP			
5	İ	823	3.4600	42.54	0.48	43.02	46.00	-2.98	QP			
6	ļ	848	3.6800	41.81	0.92	42.73	46.00	-3.27	QP			

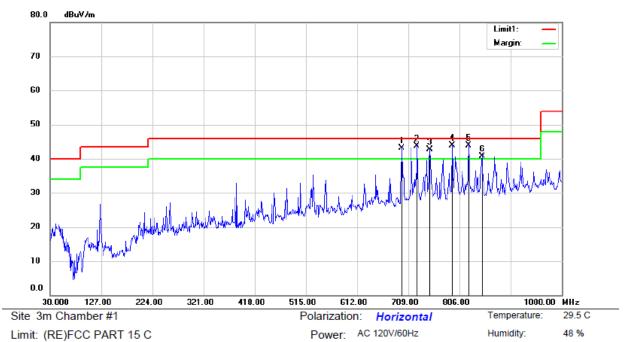




Mode:TX 5260MHz

No. M	lk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	504.3300	36.16	-4.68	31.48	46.00	-14.52	QP			
2	528.5800	37.64	-4.17	33.47	46.00	-12.53	QP			
3	552.8300	35.36	-3.79	31.57	46.00	-14.43	QP			
4	696.3900	35.04	-1.10	33.94	46.00	-12.06	QP			
5 *	725.4900	37.72	-0.64	37.08	46.00	-8.92	QP			
6	744.8900	35.30	-0.30	35.00	46.00	-11.00	QP			

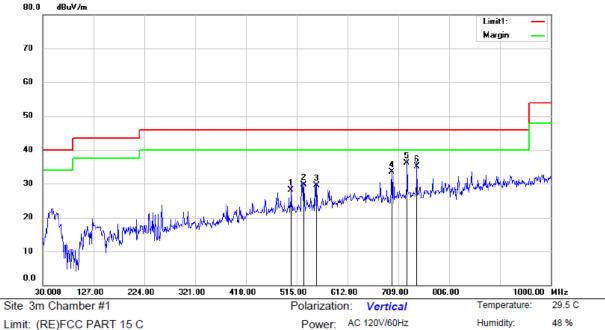




Mode:TX 5280MHz

No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	ļ	69	96.3900	44.14	-1.10	43.04	46.00	-2.96	QP			
2	ļ	72	25.4900	44.39	-0.64	43.75	46.00	-2.25	QP			
3	ļ	74	19.7400	42.96	-0.25	42.71	46.00	-3.29	QP			
4	*	79	92.4200	43.72	0.18	43.90	46.00	-2.10	QP			
5	İ	82	23.4600	43.37	0.48	43.85	46.00	-2.15	QP			
6	ļ	84	18.6800	39.76	0.92	40.68	46.00	-5.32	QP			

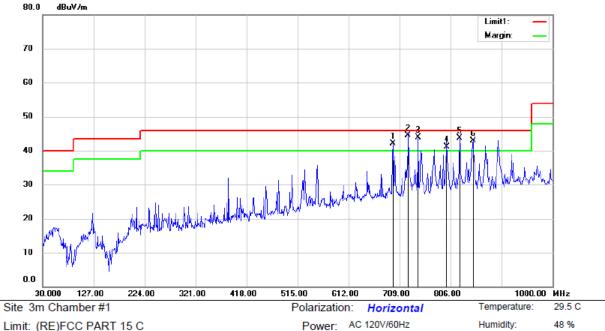




Mode:TX 5280MHz

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		504.3300	32.84	-4.68	28.16	46.00	-17.84	QP			
2		528.5800	33.84	-4.17	29.67	46.00	-16.33	QP			
3		552.8300	33.24	-3.79	29.45	46.00	-16.55	QP			
4		696.3900	34.68	-1.10	33.58	46.00	-12.42	QP			
5	*	725.4900	36.81	-0.64	36.17	46.00	-9.83	QP			
6		744.8900	35.42	-0.30	35.12	46.00	-10.88	QP			

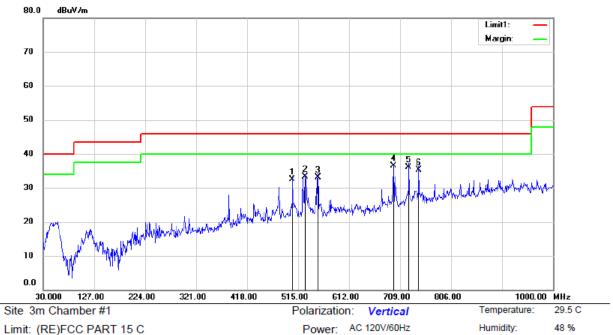




Mode: TX 5320MHz

No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	ļ	69	6.3900	43.20	-1.10	42.10	46.00	-3.90	QP			
2	*	72	25.4900	45.21	-0.64	44.57	46.00	-1.43	QP			
3	ļ	74	4.8900	44.20	-0.30	43.90	46.00	-2.10	QP			
4	ļ	79	9.2100	40.78	0.27	41.05	46.00	-4.95	QP			
5	İ	82	23.4600	43.15	0.48	43.63	46.00	-2.37	QP			
6	ļ	84	8.6800	41.95	0.92	42.87	46.00	-3.13	QP			

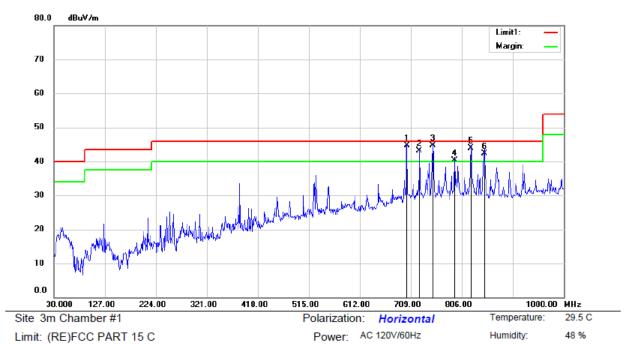




Mode: TX 5230MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		504.3300	37.25	-4.68	32.57	46.00	-13.43	QP			
2		528.5800	37.47	-4.17	33.30	46.00	-12.70	QP			
3		552.8300	36.97	-3.79	33.18	46.00	-12.82	QP			
4	*	696.3900	37.67	-1.10	36.57	46.00	-9.43	QP			
5		725.4900	36.83	-0.64	36.19	46.00	-9.81	QP			
6		744.8900	35.68	-0.30	35.38	46.00	-10.62	QP			

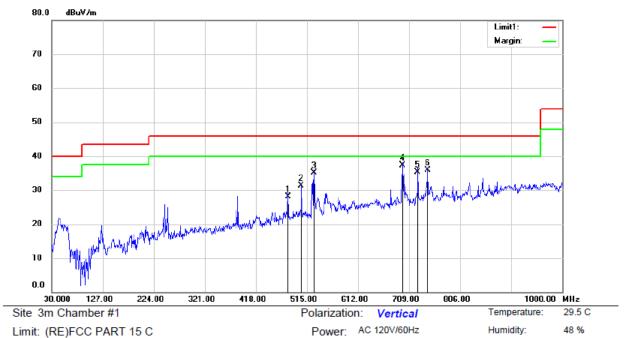




Mode:TX 5500MHz

No.	MI	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	7	02.2100	45.69	-1.01	44.68	46.00	-1.32	QP			
2	İ	7	25.4900	43.76	-0.64	43.12	46.00	-2.88	QP			
3	ļ	7	50.7100	44.91	-0.24	44.67	46.00	-1.33	QP			
4	ļ	7	92.4200	40.19	0.18	40.37	46.00	-5.63	QP			
5	ļ	8	23.4600	43.43	0.48	43.91	46.00	-2.09	QP			
6	İ	8	48.6800	41.35	0.92	42.27	46.00	-3.73	QP			

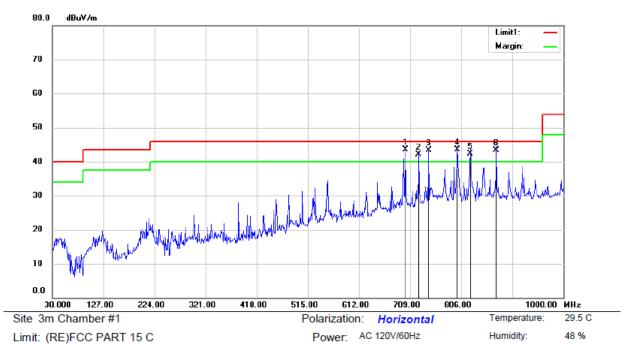




Mode:TX 5500MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		479.1100	33.21	-5.04	28.17	46.00	-17.83	QP			
2		504.3300	35.91	-4.68	31.23	46.00	-14.77	QP			
3		528.5800	39.28	-4.17	35.11	46.00	-10.89	QP			
4	*	696.3900	38.36	-1.10	37.26	46.00	-8.74	QP			
5		725.4900	36.01	-0.64	35.37	46.00	-10.63	QP			
6		744.8900	36.18	-0.30	35.88	46.00	-10.12	QP			

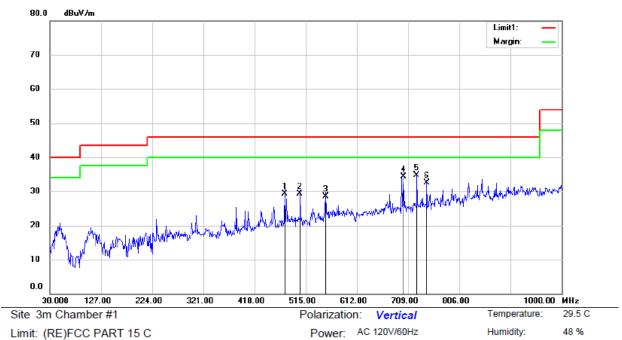




Mode:TX 5580MHz

No.	Mk	c. F	req.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		I	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	700.	2700	44.62	-1.04	43.58	46.00	-2.42	QP			
2	İ	725.	4900	42.66	-0.64	42.02	46.00	-3.98	QP			
3	İ	744.	8900	43.61	-0.30	43.31	46.00	-2.69	QP			
4	İ	799.	2100	43.21	0.27	43.48	46.00	-2.52	QP			
5	İ	823.	4600	41.88	0.48	42.36	46.00	-3.64	QP			
6	İ	872.	9300	41.78	1.49	43.27	46.00	-2.73	QP			

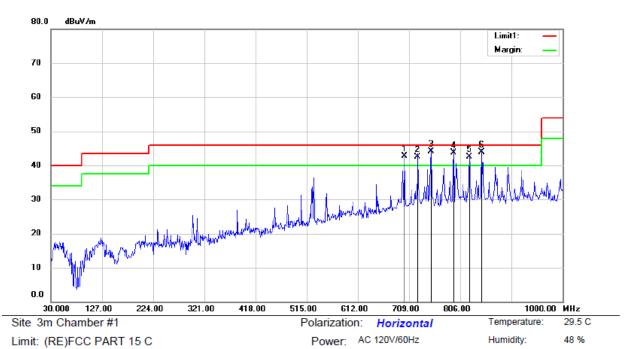




Mode:TX 5580MHz

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		475.2300	34.37	-5.10	29.27	46.00	-16.73	QP			
2		504.3300	34.05	-4.68	29.37	46.00	-16.63	QP			
3		552.8300	32.31	-3.79	28.52	46.00	-17.48	QP			
4		700.2700	35.26	-1.04	34.22	46.00	-11.78	QP			
5	*	725.4900	35.26	-0.64	34.62	46.00	-11.38	QP			
6		744.8900	32.77	-0.30	32.47	46.00	-13.53	QP			

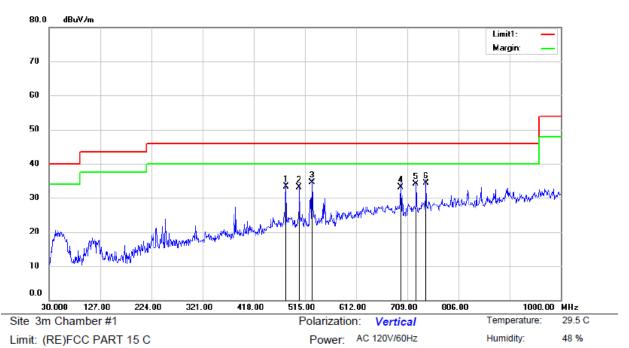




Mode: TX 5700MHz

No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 !	700.2700	43.76	-1.04	42.72	46.00	-3.28	QP			
2 !	725.4900	43.16	-0.64	42.52	46.00	-3.48	QP			
3 *	750.7100	44.35	-0.24	44.11	46.00	-1.89	QP			
4 !	793.3900	43.49	0.19	43.68	46.00	-2.32	QP			
5 !	823.4600	42.09	0.48	42.57	46.00	-3.43	QP			
6 !	846.7400	42.98	0.90	43.88	46.00	-2.12	QP			

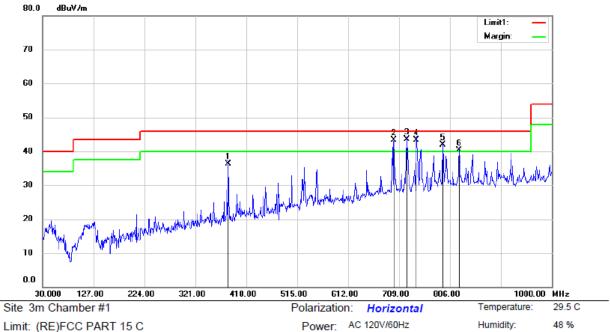




Mode: TX 5700MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		479.1100	38.32	-5.04	33.28	46.00	-12.72	QP			
2		504.3300	37.82	-4.68	33.14	46.00	-12.86	QP			
3	*	528.5800	38.72	-4.17	34.55	46.00	-11.45	QP			
4		696.3900	34.24	-1.10	33.14	46.00	-12.86	QP			
5		725.4900	34.66	-0.64	34.02	46.00	-11.98	QP			
6		744.8900	34.62	-0.30	34.32	46.00	-11.68	QP			

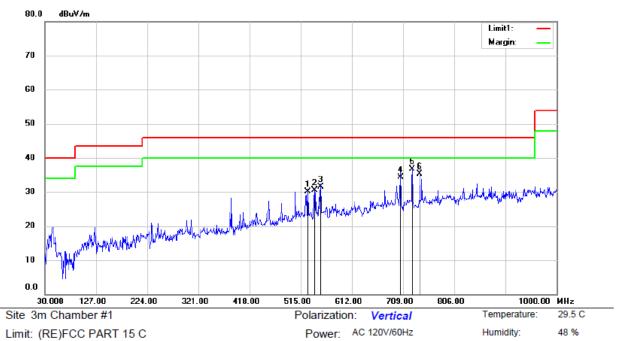




Mode:TX 5745MHz

No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		38	4.0500	42.76	-6.43	36.33	46.00	-9.67	QP			
2	İ	69	9.3000	44.28	-1.06	43.22	46.00	-2.78	QP			
3	*	72	3.5500	44.22	-0.68	43.54	46.00	-2.46	QP			
4	ļ	74	1.9800	43.69	-0.33	43.36	46.00	-2.64	QP			
5	İ	79	2.4200	41.79	0.18	41.97	46.00	-4.03	QP			
6	İ	82	3.4600	39.88	0.48	40.36	46.00	-5.64	QP			

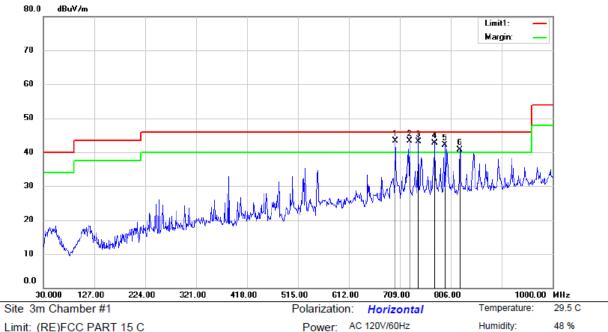




Mode:TX 5745MHz

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		528.5800	34.31	-4.17	30.14	46.00	-15.86	QP			
2		541.1900	34.55	-3.98	30.57	46.00	-15.43	QP			
3		552.8300	35.23	-3.79	31.44	46.00	-14.56	QP			
4		704.1500	35.22	-0.97	34.25	46.00	-11.75	QP			
5	*	726.4600	37.40	-0.62	36.78	46.00	-9.22	QP			
6		741.0100	35.67	-0.34	35.33	46.00	-10.67	QP			

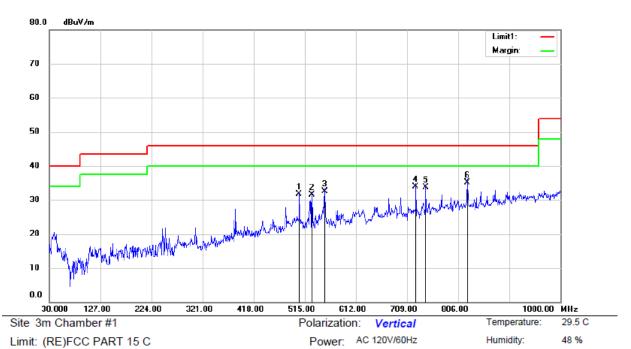




Mode:TX 5785MHz

No.	Mk	c. F	req.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		ı	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	700.2	2700	44.39	-1.04	43.35	46.00	-2.65	QP			
2	İ	727.4	4300	43.85	-0.60	43.25	46.00	-2.75	QP			
3	İ	744.8	8900	43.45	-0.30	43.15	46.00	-2.85	QP			
4	İ	775.9	9300	42.56	0.08	42.64	46.00	-3.36	QP			
5	İ	795.	3300	41.81	0.22	42.03	46.00	-3.97	QP			
6	İ	823.4	4600	40.18	0.48	40.66	46.00	-5.34	QP			

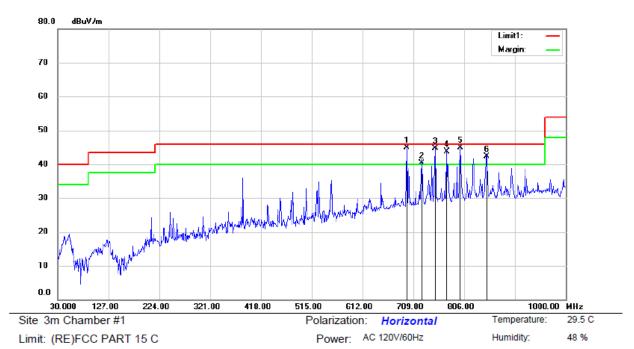




Mode: TX 5785MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		504.3300	36.32	-4.68	31.64	46.00	-14.36	QP			
2		528.5800	35.75	-4.17	31.58	46.00	-14.42	QP			
3		552.8300	36.28	-3.79	32.49	46.00	-13.51	QP			
4		725.4900	34.62	-0.64	33.98	46.00	-12.02	QP			
5		744.8900	33.94	-0.30	33.64	46.00	-12.36	QP			
6	*	823.4600	34.68	0.48	35.16	46.00	-10.84	QP			

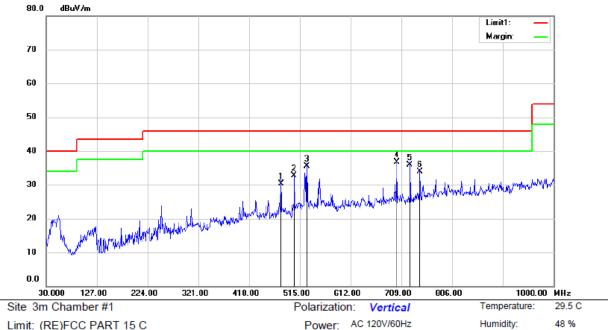




Mode:TX 5825MHz

No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	69	96.3900	45.95	-1.10	44.85	46.00	-1.15	QP			
2	ļ	72	25.4900	41.00	-0.64	40.36	46.00	-5.64	QP			
3	İ	75	50.7100	44.91	-0.24	44.67	46.00	-1.33	QP			
4	ļ	77	73.0200	43.61	0.04	43.65	46.00	-2.35	QP			
5	ļ	79	99.2100	44.58	0.27	44.85	46.00	-1.15	QP			
6	ļ	84	48.6800	41.38	0.92	42.30	46.00	-3.70	QP			





Mode:TX 5825MHz

No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	47	79.1100	35.28	-5.04	30.24	46.00	-15.76	QP			
2	50	04.3300	37.29	-4.68	32.61	46.00	-13.39	QP			
3	52	28.5800	39.61	-4.17	35.44	46.00	-10.56	QP			
4	* 70	00.2700	37.79	-1.04	36.75	46.00	-9.25	QP			
5	72	25.4900	36.52	-0.64	35.88	46.00	-10.12	QP			
6	74	44.8900	34.21	-0.30	33.91	46.00	-12.09	QP			



8.6 POWER LINE CONDUCTED EMISSIONS

8.6.1 Applicable Standard

According to FCC Part 15.207(a)

8.6.2 Conformance Limit

Conducted Emission Limit

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5 0-30 0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.6.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

8.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Repeat above procedures until all frequency measured were complete.

8.6.5 Test Results

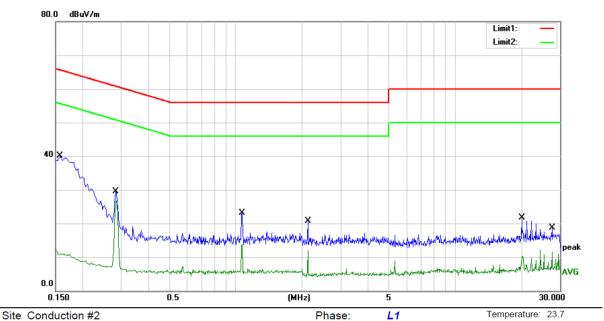
Pass

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Humidity:

41 %



Power: AC 120V/60Hz

Limit: (CE)FCC PART 15.207

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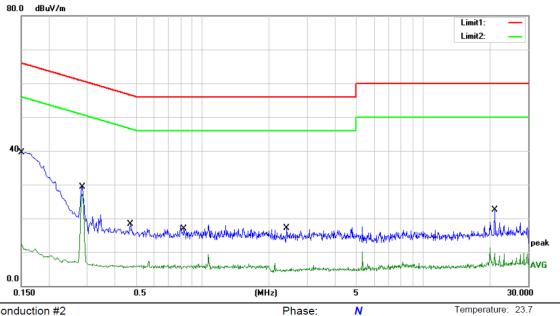
Mode: Wireless ON

1 2 3 4 *	0.1580 0.1580	dBuV/m 30.15 1.10	dB 9.90	dBuV/m	dBuV/m	dB		
2 3 4 *	0.1580		9.90			uБ	Detector	Comment
3 4 *		1 10		40.05	65.57	-25.52	QP	
4 *		1.10	9.90	11.00	55.57	-44.57	AVG	
	0.2820	19.68	9.91	29.59	60.76	-31.17	QP	
5	0.2820	16.79	9.91	26.70	50.76	-24.06	AVG	
	1.0660	13.13	9.93	23.06	56.00	-32.94	QP	
6	1.0660	3.68	9.93	13.61	46.00	-32.39	AVG	
7	2.1220	10.80	9.94	20.74	56.00	-35.26	QP	
8	2.1220	2.04	9.94	11.98	46.00	-34.02	AVG	
9	20.0780	11.67	10.08	21.75	60.00	-38.25	QP	
10	20.0780	0.28	10.08	10.36	50.00	-39.64	AVG	
11	27.5820	8.40	10.30	18.70	60.00	-41.30	QP	
12	27.5820	1.21	10.30	11.51	50.00	-38 40	AVG	



Humidity:

41 %



Power: AC 120V/60Hz

Site Conduction #2

Limit: (CE)FCC PART 15.207

Mode: Wireless ON

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	29.65	9.89	39.54	66.00	-26.46	QP	
2		0.1500	2.98	9.89	12.87	56.00	-43.13	AVG	
3		0.2860	19.46	9.91	29.37	60.64	-31.27	QP	
4	*	0.2860	17.16	9.91	27.07	50.64	-23.57	AVG	
5		0.4700	8.35	9.92	18.27	56.51	-38.24	QP	
6		0.4700	-3.75	9.92	6.17	46.51	-40.34	AVG	
7		0.8220	7.06	9.92	16.98	56.00	-39.02	QP	
8		0.8220	-3.43	9.92	6.49	46.00	-39.51	AVG	
9		2.3980	7.13	9.94	17.07	56.00	-38.93	QP	
10		2.3980	-3.17	9.94	6.77	46.00	-39.23	AVG	
11		21.2060	12.38	10.13	22.51	60.00	-37.49	QP	
12		21.2060	1.27	10.13	11.40	50.00	-38.60	AVG	



8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 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 use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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

PASS.

The EUT Note:	has a metal antennas for WIFI, the antenna max gain is 3 dBi,	
Note.		Antenna use a permanently attached antenna which is not replaceable. Not using a standard antenna jack or electrical connector for antenna replacement The antenna has to be professionally installed (please provide method of installation)
which in accordance to section 15.203, please refer to the internal photos.		

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