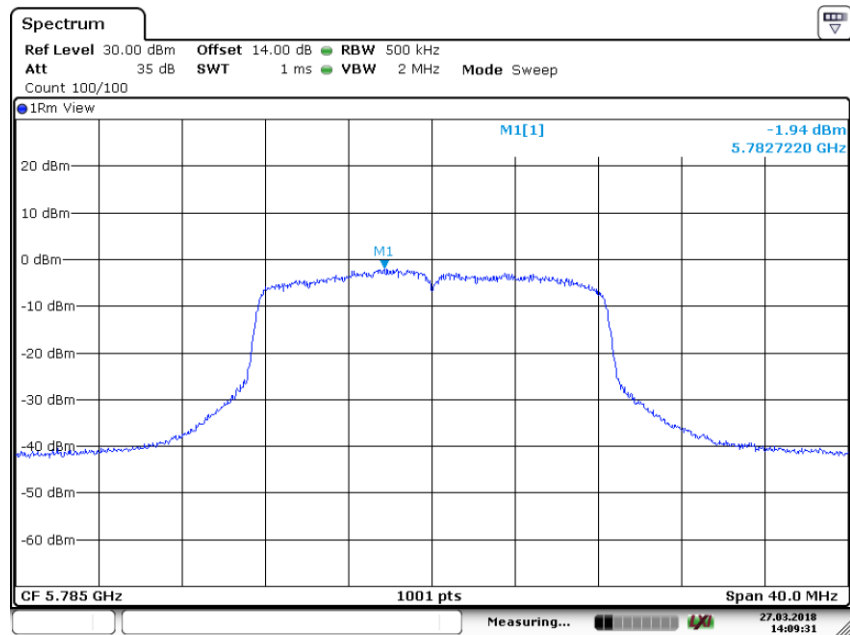
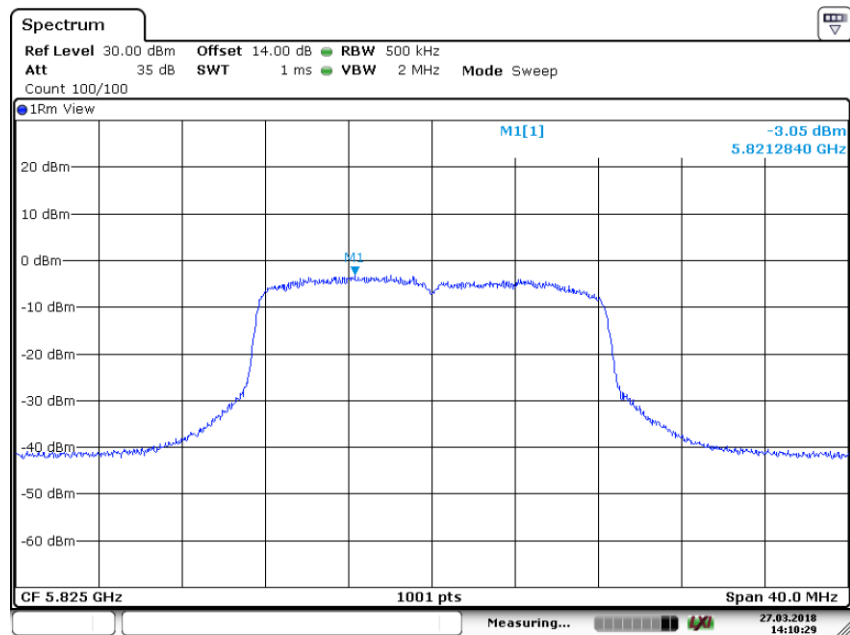


Power Spectral Density	UNII Band III
Test Model 802.11a	Frequency(MHz) 5785
Ant0	



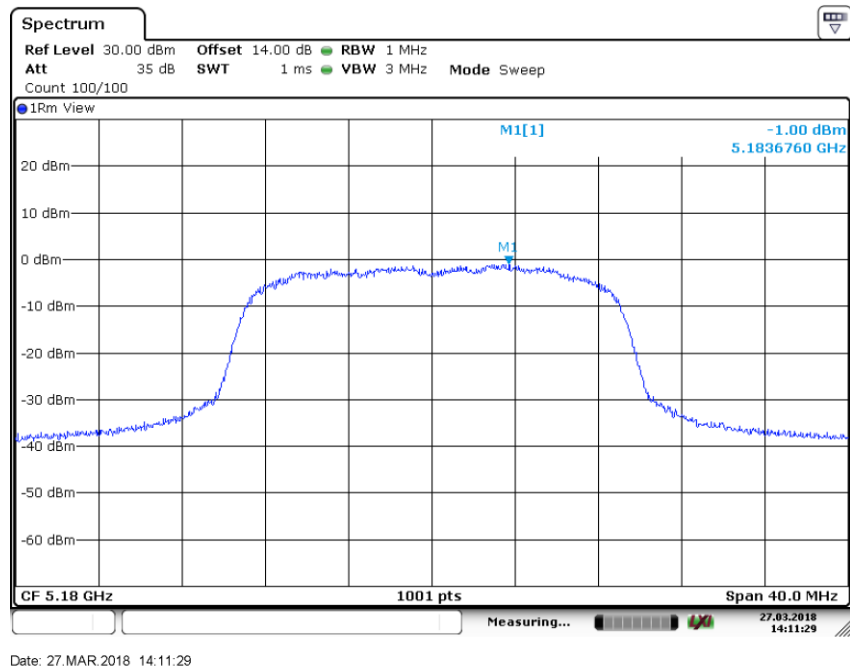
Date: 27.MAR.2018 14:09:31

Power Spectral Density	UNII Band III
Test Model 802.11a	Frequency(MHz) 5825
Ant0	

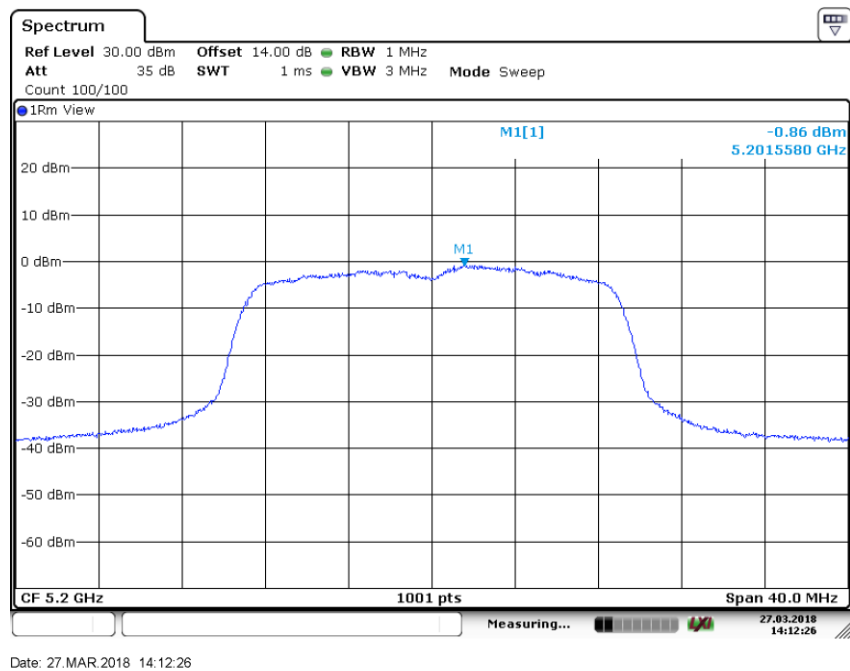


Date: 27.MAR.2018 14:10:29

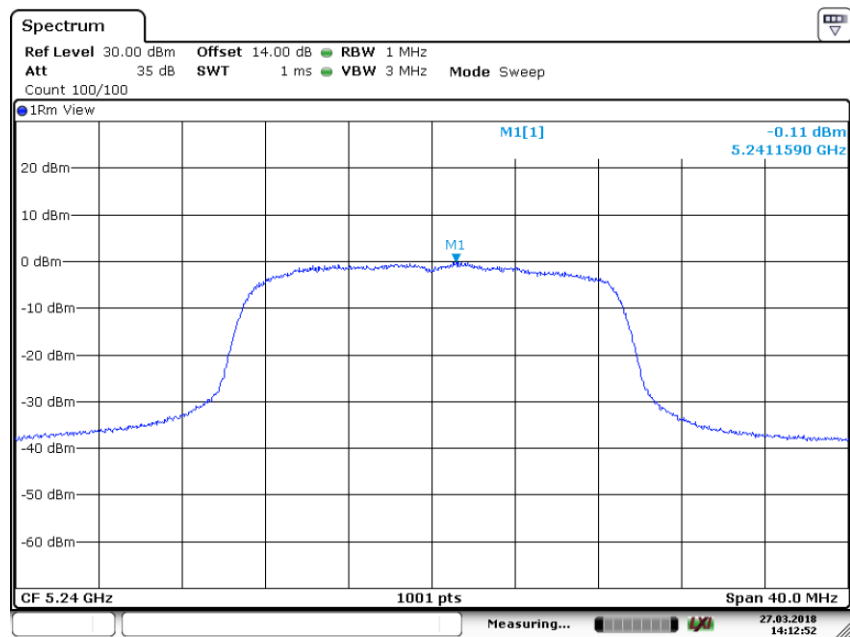
Power Spectral Density	UNII Band I
Test Model 802.11n(VHT20) mode	Frequency(MHz) 5180
Ant0	



Power Spectral Density	UNII Band I
Test Model 802.11n(VHT20) mode	Frequency(MHz) 5200
Ant0	

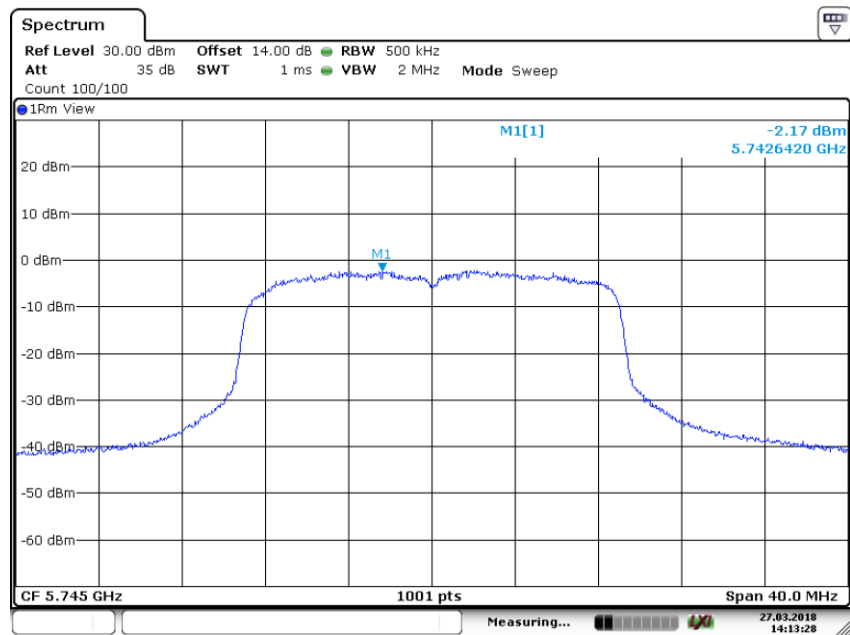


Power Spectral Density	UNII Band I	
Test Model 802.11n(VHT20) mode	Frequency(MHz)	5240
Ant0		



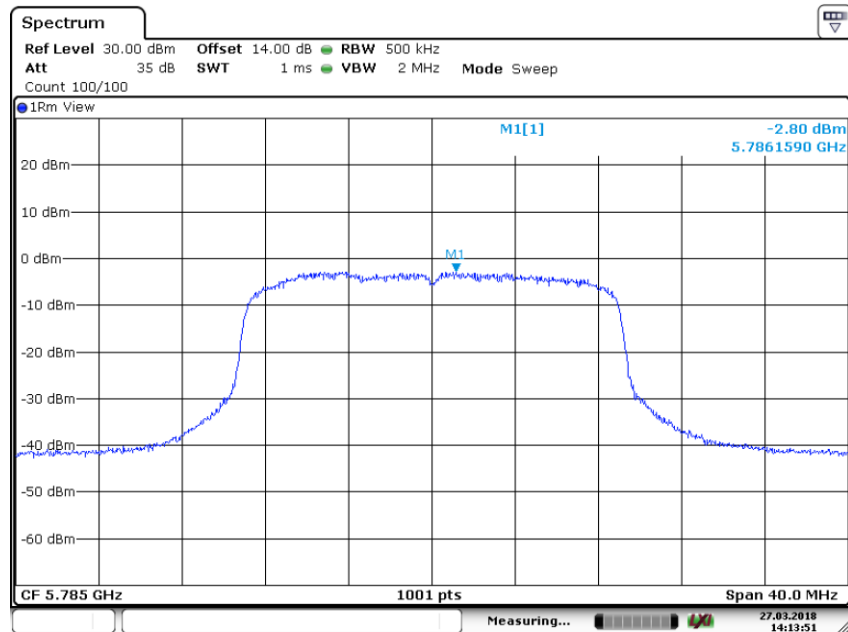
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Power Spectral Density	UNII Band III	
Test Model 802.11n(VHT20) mode	Frequency(MHz)	5745
Ant0		



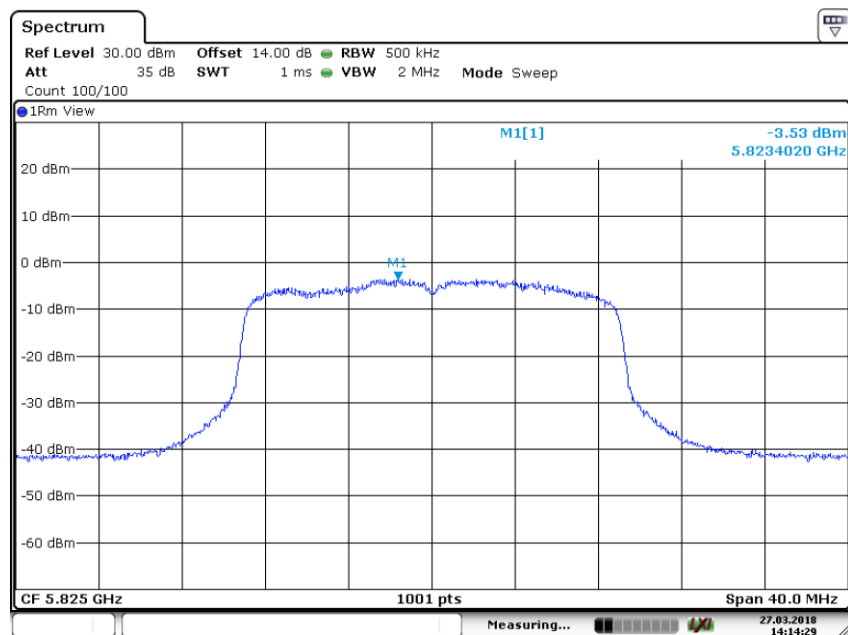
Date: 27.MAR.2018 14:13:28

Power Spectral Density	UNII Band III
Test Model 802.11n(VHT20) mode	Frequency(MHz) 5785
Ant0	



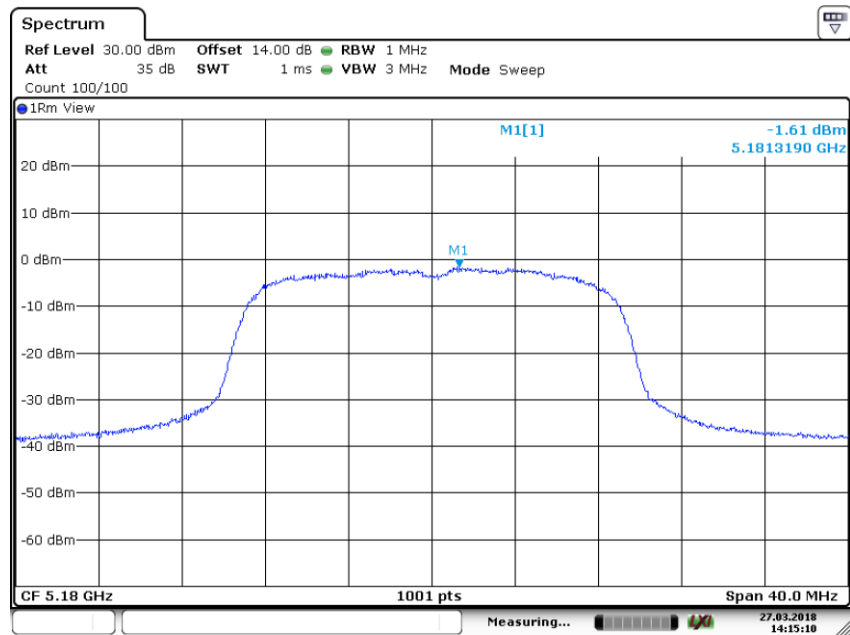
Date: 27.MAR.2018 14:13:51

Power Spectral Density	UNII Band III
Test Model 802.11n(VHT20) mode	Frequency(MHz) 5825
Ant0	



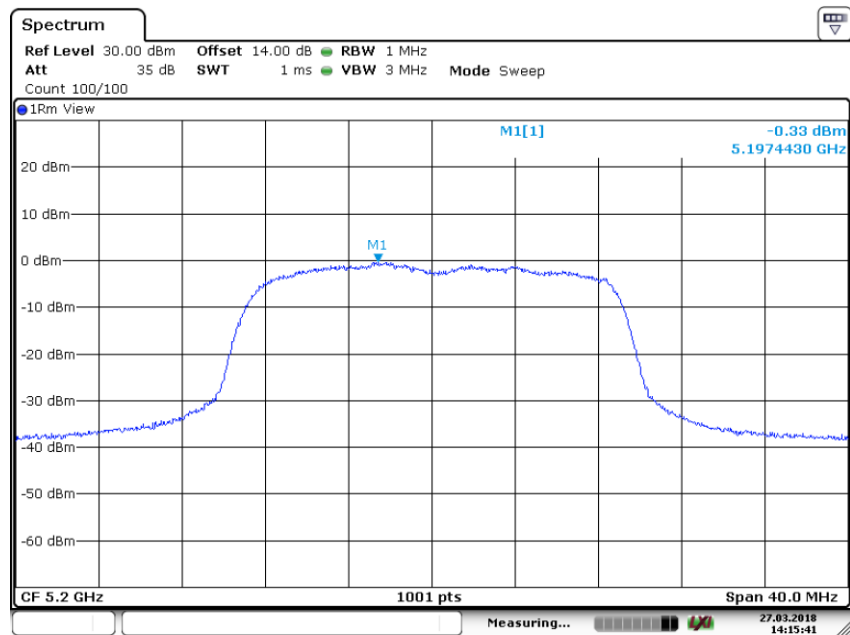
Date: 27.MAR.2018 14:14:29

Power Spectral Density	UNII Band I
Test Model 802.11ac(VHT20) mode	Frequency(MHz) 5180
Ant0	



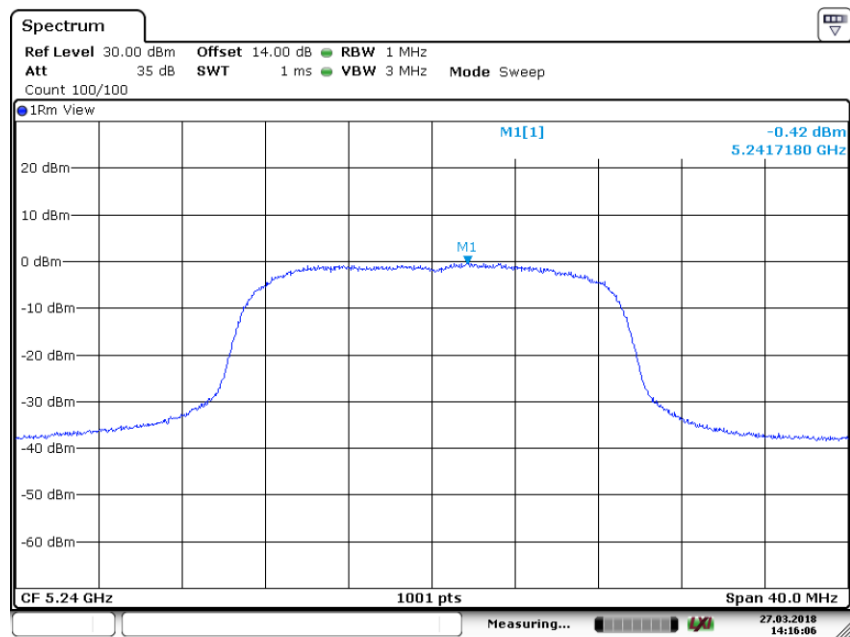
Date: 27.MAR.2018 14:15:10

Power Spectral Density	UNII Band I
Test Model 802.11ac(VHT20) mode	Frequency(MHz) 5200
Ant0	



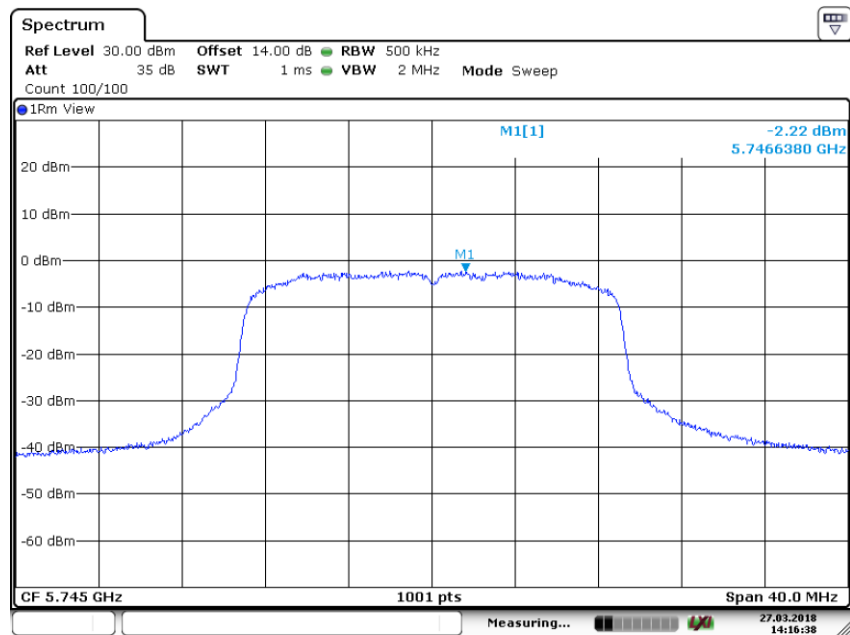
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Power Spectral Density		UNII Band I	
Test Model	802.11ac(VHT20) mode	Frequency(MHz)	5240
Ant0			



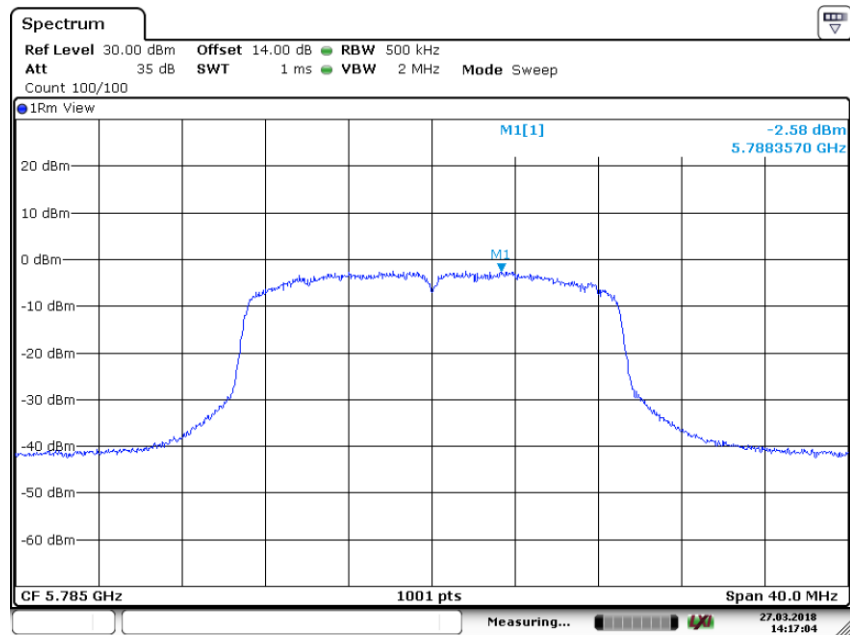
Date: 27.MAR.2018 14:16:05

Power Spectral Density		UNII Band III	
Test Model	802.11ac(VHT20) mode	Frequency(MHz)	5745
Ant0			



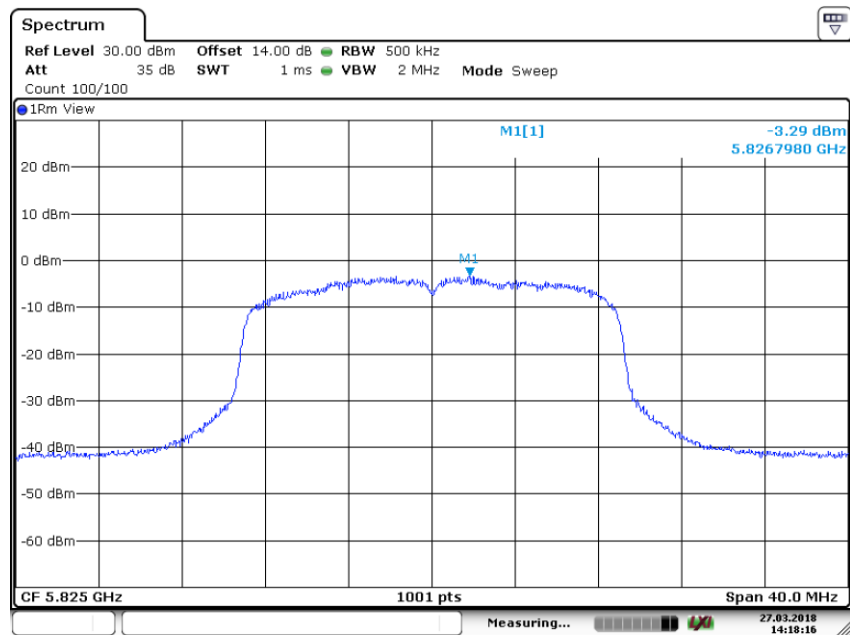
Date: 27.MAR.2018 14:16:38

Power Spectral Density	UNII Band III
Test Model 802.11ac(VHT20) mode	Frequency(MHz) 5785
Ant0	



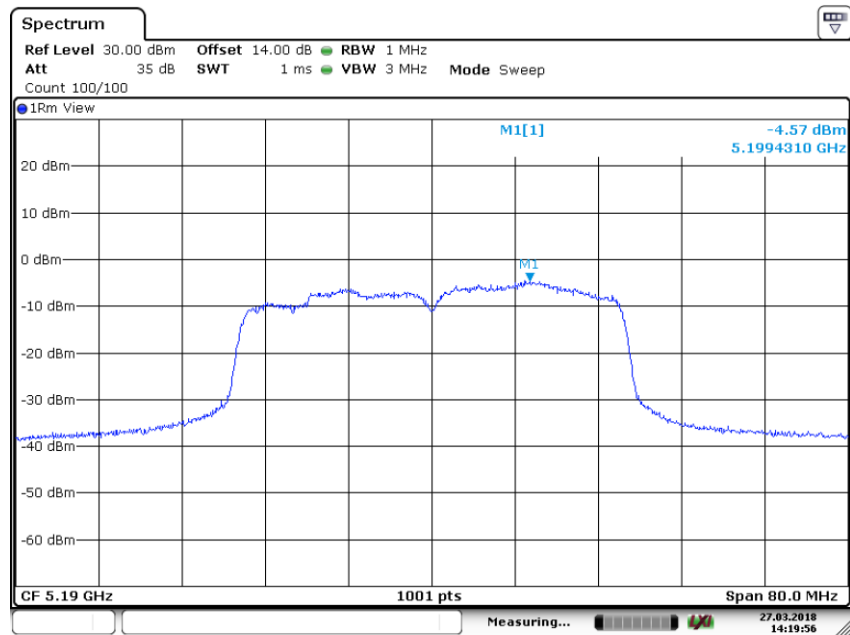
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Power Spectral Density	UNII Band III
Test Model 802.11ac(VHT20) mode	Frequency(MHz) 5825
Ant0	



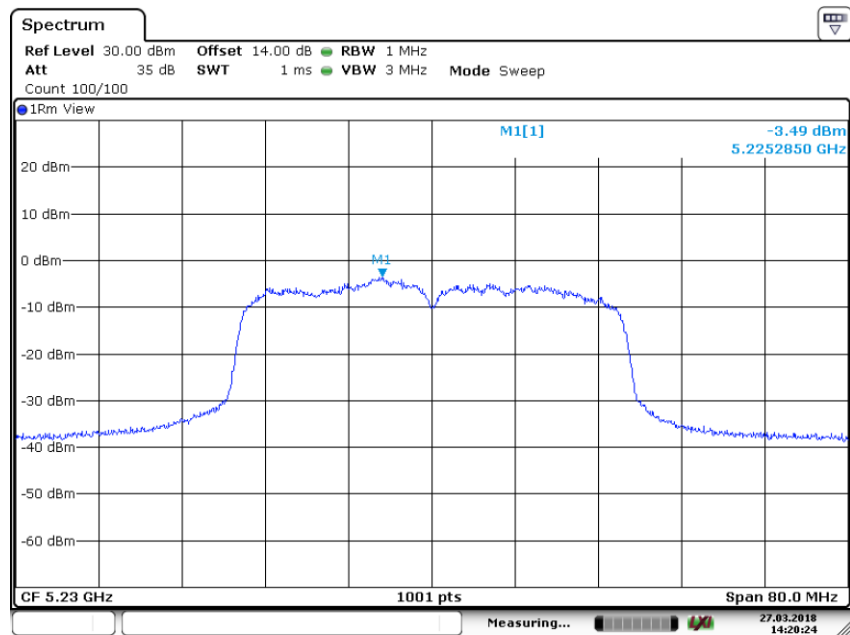
Date: 27.MAR.2018 14:18:16

Power Spectral Density	UNII Band I	
Test Model 802.11n(VHT40) mode	Frequency(MHz)	5190
Ant0		



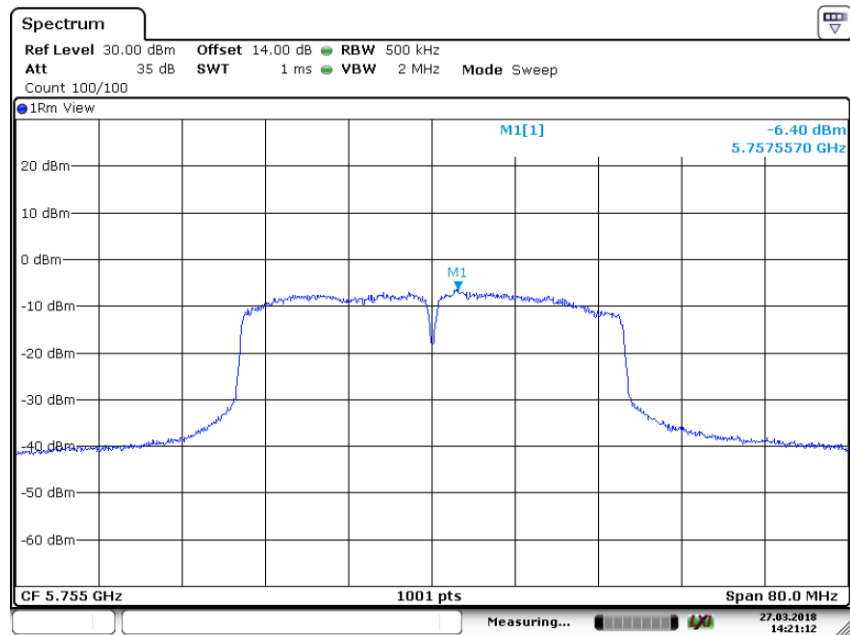
Date: 27.MAR.2018 14:19:56

Power Spectral Density	UNII Band I	
Test Model 802.11n(VHT40) mode	Frequency(MHz)	5230
Ant0		



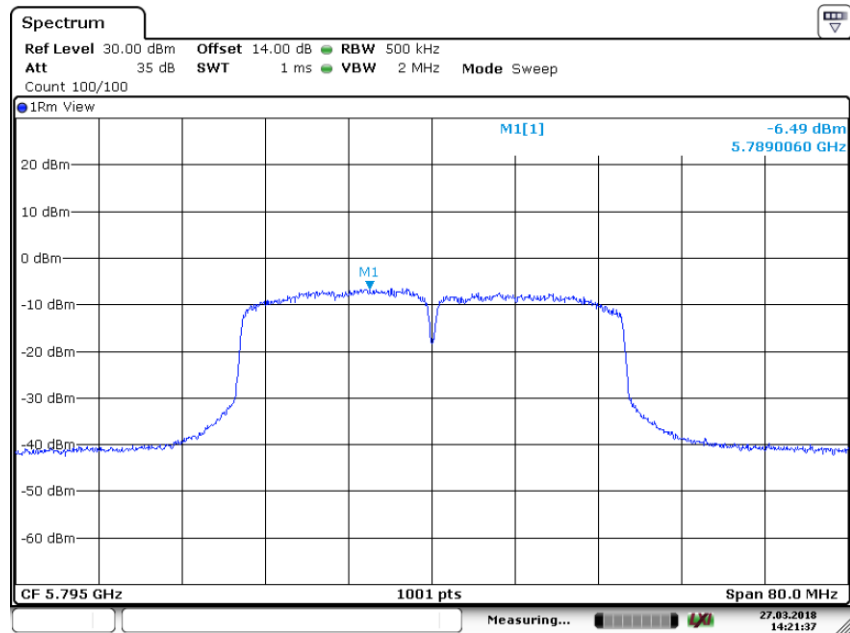
Date: 27.MAR.2018 14:20:24

Power Spectral Density	UNII Band III		
Test Model	802.11n(VHT40) mode	Frequency(MHz)	5755
Ant0			



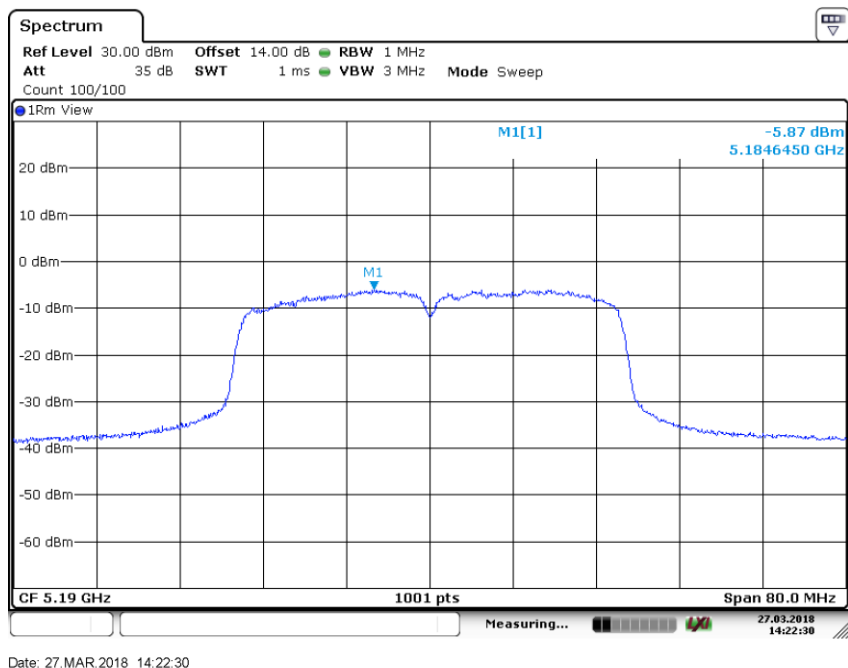
Date: 27.MAR.2018 14:21:11

Power Spectral Density	UNII Band III		
Test Model	802.11n(VHT40) mode	Frequency(MHz)	5795
Ant0			

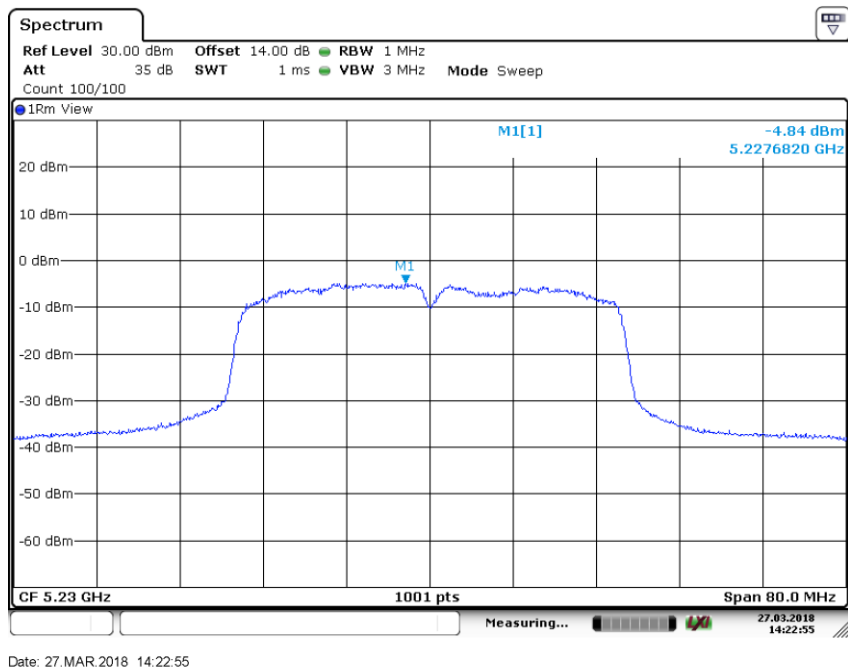


Date: 27.MAR.2018 14:21:37

Power Spectral Density	UNII Band I		
Test Model	802.11ac(VHT40) mode	Frequency(MHz)	5190
Ant0			

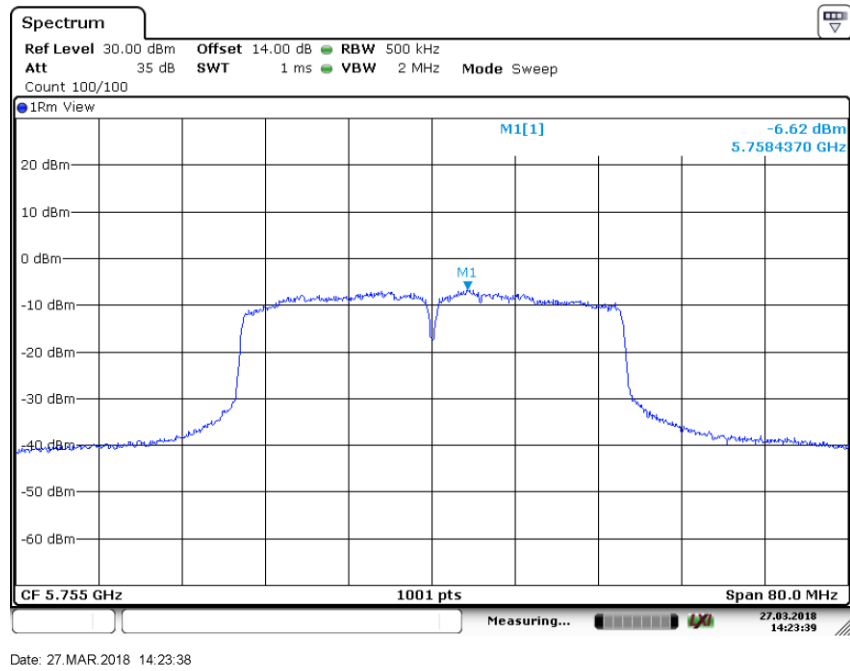


Power Spectral Density	UNII Band I		
Test Model	802.11ac(VHT40) mode	Frequency(MHz)	5230
Ant0			

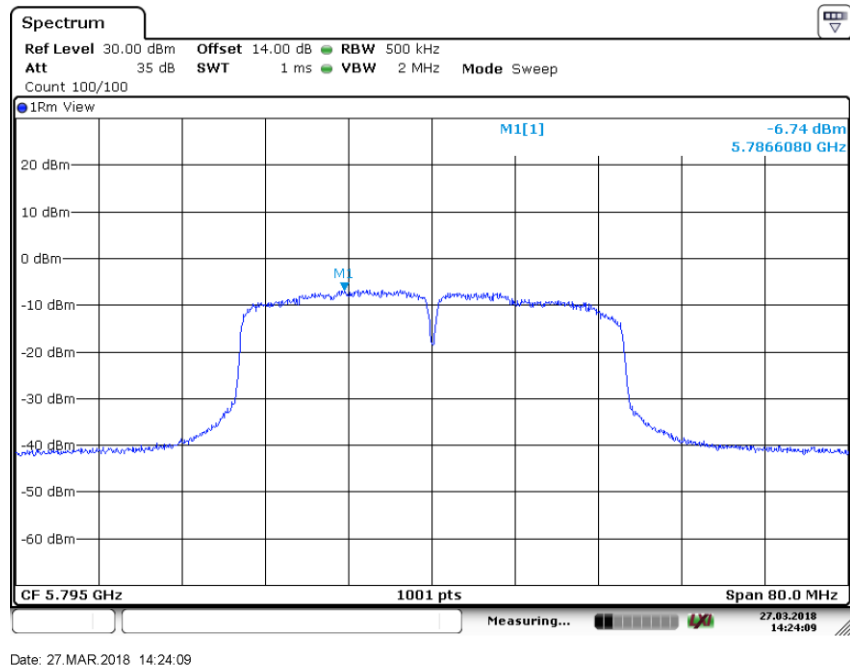


Power Spectral Density	UNII Band III		
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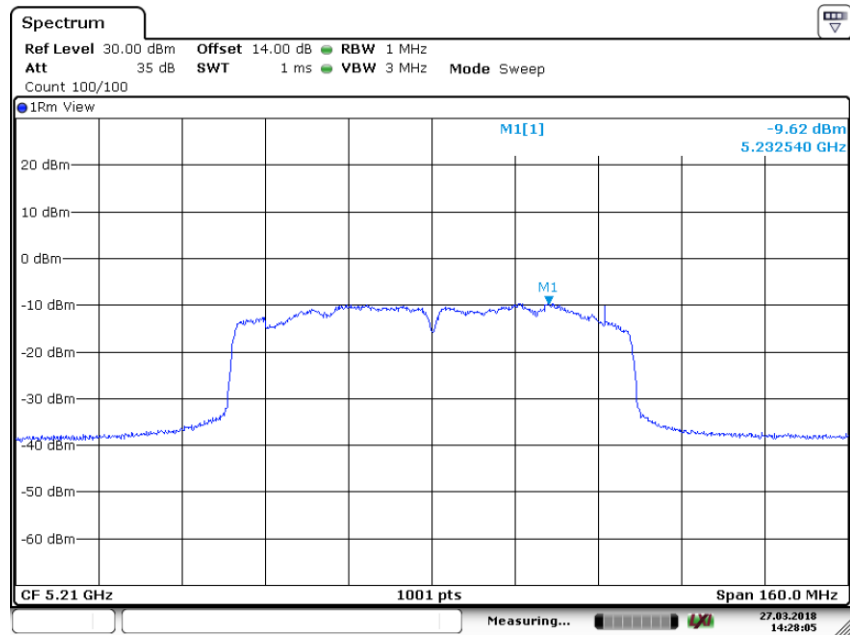
Test Model	802.11ac(VHT40) mode	Frequency(MHz)	5755
Ant0			



Power Spectral Density		UNII Band III	
Test Model	802.11ac(VHT40) mode	Frequency(MHz)	5795
Ant0			

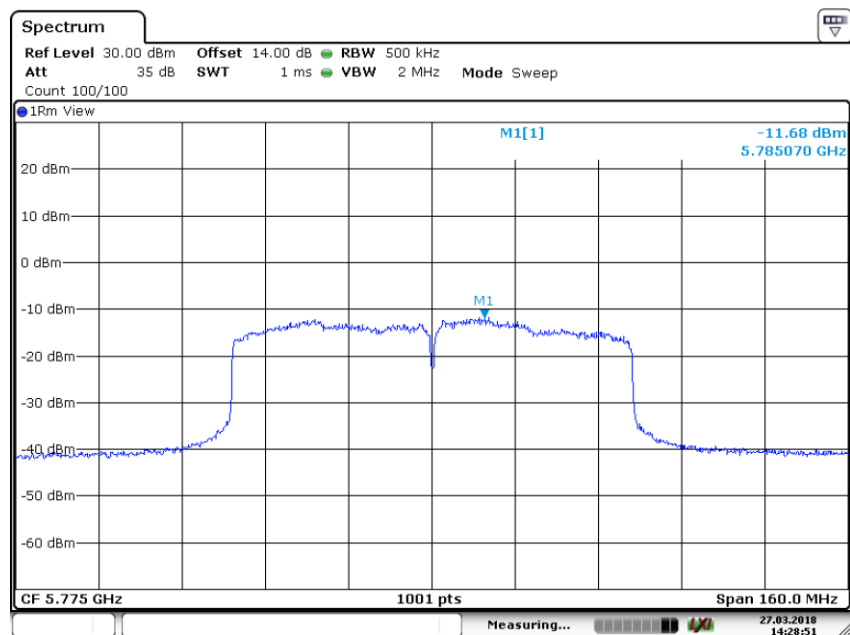


Power Spectral Density	UNII Band I
Test Model 802.11ac(VHT80) mode	Frequency(MHz) 5210
Ant0	



Date: 27.MAR.2018 14:28:05

Power Spectral Density	UNII Band III
Test Model 802.11ac(VHT80) mode	Frequency(MHz) 5775
Ant0	



Date: 27.MAR.2018 14:28:51

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

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

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

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

All mode and channels have been test, and the worst result have been recorded in the report.

802.11a	5180
Temperature : 20°C	Test Date : March 27, 2018
Humidity : 65 %	Test By: King Kong

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5180.0281	5.42	Pass
	-10	5180.0281	5.42	Pass
	0	5180.0281	5.42	Pass
	10	5180.0281	5.42	Pass
	20	5180.0281	5.42	Pass
	30	5180.0281	5.42	Pass
	40	5180.0281	5.42	Pass
	50	5180.0281	5.42	Pass
85% Vnom	20	5180.0281	5.42	Pass

802.11n20	5180
Temperature : --	Test Date : March 27, 2018
Humidity : 65 %	Test By: King Kong

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5180.0159	3.07	Pass
	-10	5180.0159	3.07	Pass
	0	5180.0159	3.07	Pass
	10	5180.0159	3.07	Pass
	20	5180.0159	3.07	Pass
	30	5180.0159	3.07	Pass
	40	5180.0159	3.07	Pass
	50	5180.0159	3.07	Pass

802.11ac20	5180
Temperature : --	Test Date : March 27, 2018
Humidity : 65 %	Test By: King Kong

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5180.0198	3.82	Pass
	-10	5180.0198	3.82	Pass
	0	5180.0198	3.82	Pass
	10	5180.0198	3.82	Pass
	20	5180.0198	3.82	Pass
	30	5180.0198	3.82	Pass
	40	5180.0198	3.82	Pass
	50	5180.0198	3.82	Pass

802.11n40

5190

Temperature : --

Test Date : May04, 2017

Humidity : 65 %

Test By: King Kong

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5190.0840	16.18	Pass
	-10	5190.0840	16.18	Pass
	0	5190.0840	16.18	Pass
	10	5190.0840	16.18	Pass
	20	5190.0840	16.18	Pass
	30	5190.0840	16.18	Pass
	40	5190.0840	16.18	Pass
	50	5190.0840	16.18	Pass

802.11ac 40

5190

Temperature : --

Test Date : March 27, 2018

Humidity : 65 %

Test By: King Kong

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5190.0881	16.97	Pass
	-10	5190.0881	16.97	Pass
	0	5190.0881	16.97	Pass
	10	5190.0881	16.97	Pass
	20	5190.0881	16.97	Pass
	30	5190.0881	16.97	Pass
	40	5190.0881	16.97	Pass
	50	5190.0881	16.97	Pass

802.11ac 80

5210

Temperature : --

Test Date : March 27, 2018

Humidity : 65 %

Test By: King Kong

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5210.0879	16.87	Pass
	-10	5210.0879	16.87	Pass
	0	5210.0879	16.87	Pass
	10	5210.0879	16.87	Pass
	20	5210.0879	16.87	Pass
	30	5210.0879	16.87	Pass
	40	5210.0879	16.87	Pass
	50	5210.0879	16.87	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

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= $20 \log (\mu\text{V/m})$
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
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.

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 $f < 1 \text{ GHz}$ (30MHz to 1GHz), 200Hz for $f < 150\text{kHz}$ (9kHz to 150kHz), 9kHz for $< 30\text{MHz}$ (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 \geq 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 \geq 98 percent, set VBW \leq RBW/100 (i.e., 10 kHz) but not less than 10 Hz.

• If the EUT duty cycle is < 98 percent, set VBW \geq $1/T$, 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.)

■ **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:

- ☒ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

Note: (1) The the amplitude of spurious emission in the 26.5GHz-40GHz that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Temperature :	28°C	Test Date :	April 18, 2018
Humidity :	65 %	Test By:	King Kong
Test mode:	802.11ac	Frequency(MHz):	5180

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
17133	V	51.24	-43.99	-27.00	-16.99
24596	V	49.70	-45.53	-27.00	-18.53
14720	H	51.32	-43.91	-27.00	-16.91
26330	H	51.15	-44.08	-27.00	-17.08

Temperature :	28°C	Test Date :	April 18, 2018
Humidity :	65 %	Test By:	King Kong
Test mode:	802.11ac	Frequency(MHz):	5220

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
16708	V	51.15	-44.08	-27.00	-17.08
24647	V	48.25	-46.98	-27.00	-19.98
13920	H	50.52	-44.71	-27.00	-17.71
25862.5	H	52.01	-43.22	-27.00	-16.22

Temperature :	28°C	Test Date :	April 18, 2018
Humidity :	65 %	Test By:	King Kong
Test mode:	802.11ac	Frequency(MHz):	5240

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
14362	V	50.63	-43.53	-27.00	-16.53
25777.5	V	51.52	-44.87	-27.00	-17.87
159774	H	51.17	-43.92	-27.00	-16.92
25556	H	51.67	-43.96	-27.00	-16.96

● ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

Temperature :	28°C	Test Date :	April 18, 2018
Humidity :	65 %	Test By:	King Kong
Test mode:	802.11a	Frequency(MHz):	5180

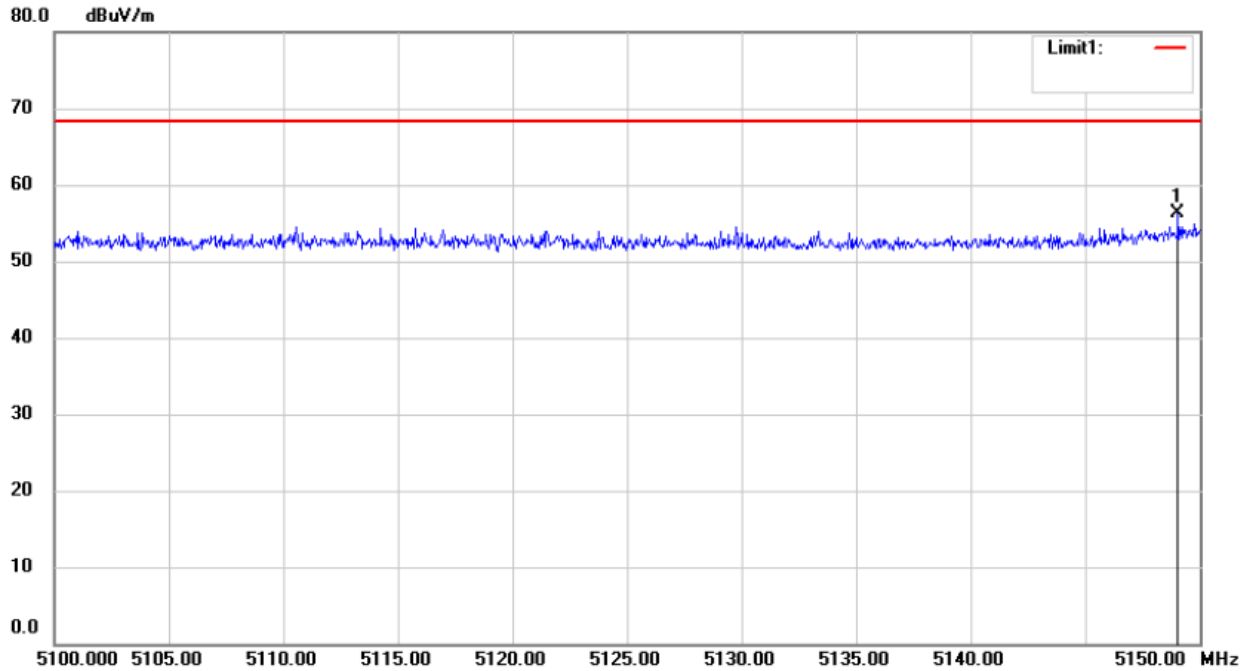
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5149.75	V	54.57	-40.66	-27.00	Pass
5149.05	H	56.38	-38.85	-27.00	Pass

Temperature :	28°C	Test Date :	April 18, 2018
Humidity :	65 %	Test By:	King Kong
Test mode:	802.11a	Frequency(MHz):	5240

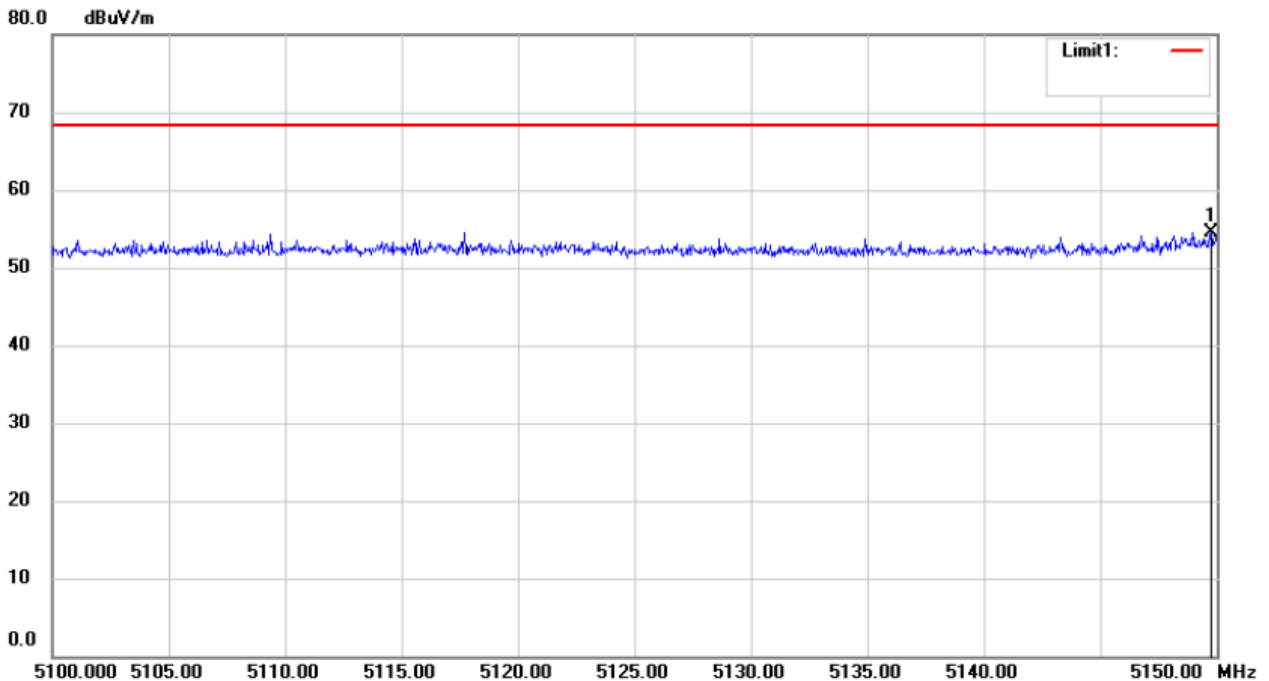
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5353.20	V	52.33	-42.90	-27.00	Pass
5351.60	H	53.08	-42.15	-27.00	Pass

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

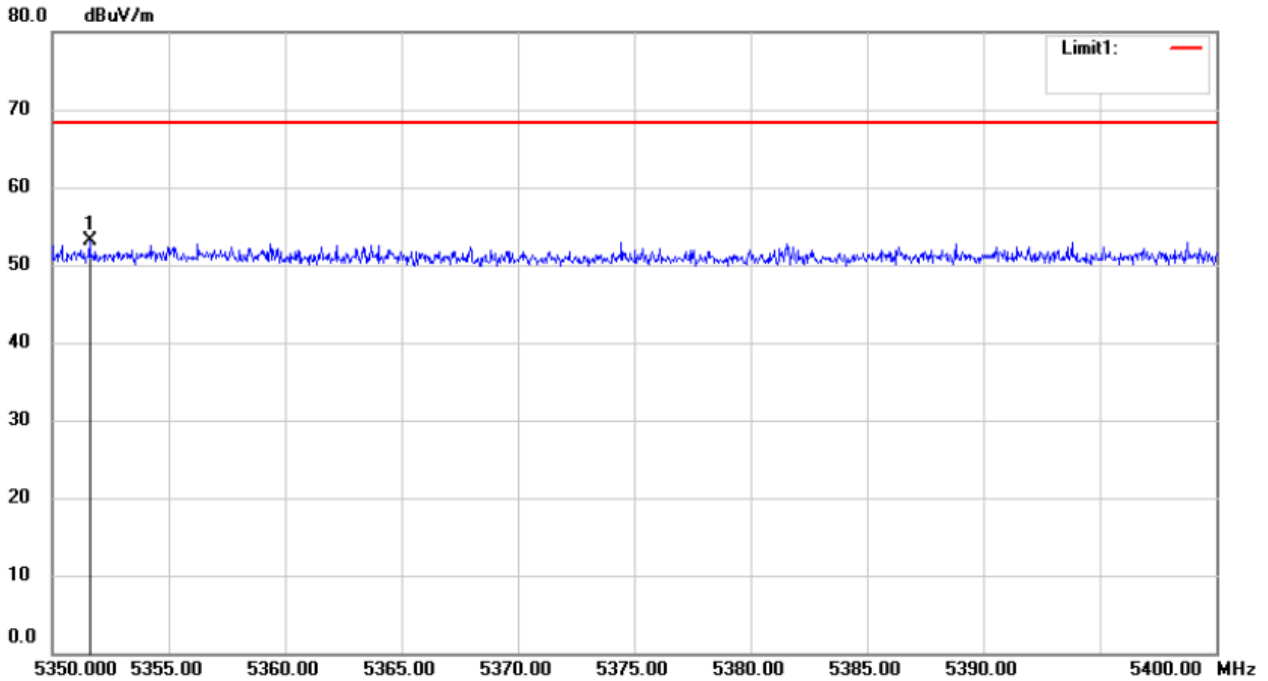
UNII Band I			
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)		
	<input checked="" type="checkbox"/> 802.11a	<input type="checkbox"/> 802.11n(HT20)	<input type="checkbox"/> 802.11n(HT40)
	<input checked="" type="checkbox"/> 5180	<input type="checkbox"/> 5200	<input type="checkbox"/> 5240
	Ant.Pol		H



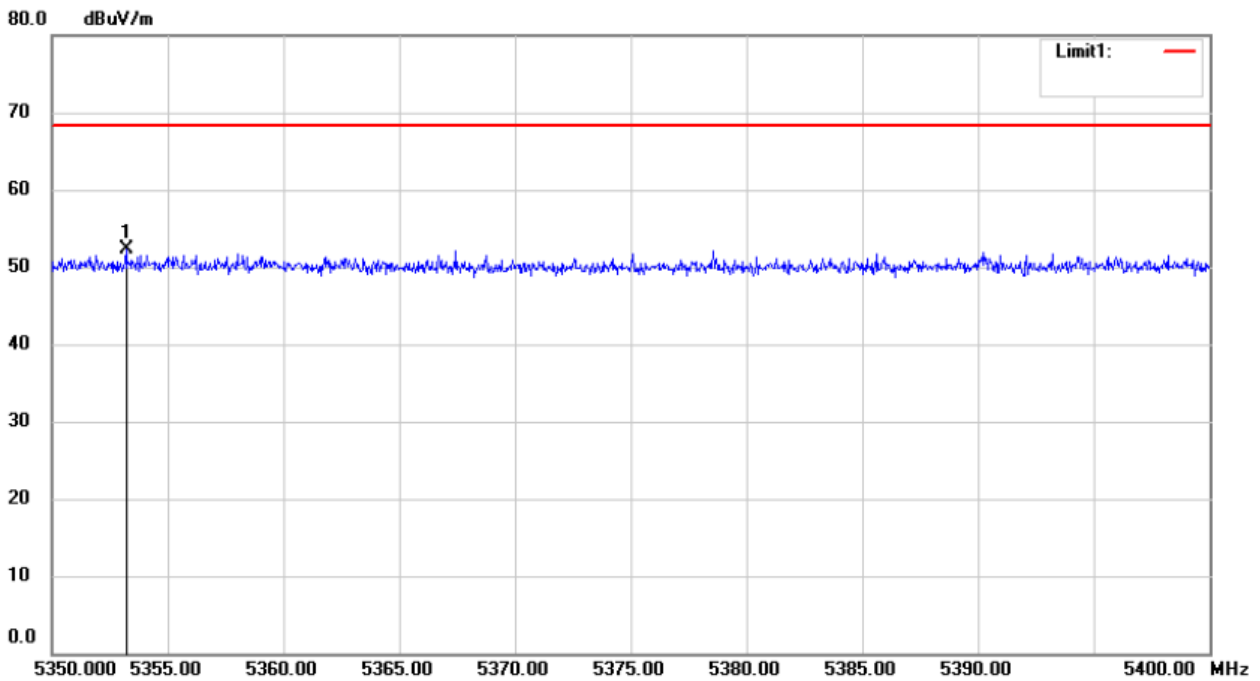
UNII Band I			
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)		
	<input checked="" type="checkbox"/> 802.11a	<input type="checkbox"/> 802.11n(HT20)	<input type="checkbox"/> 802.11n(HT40)
	<input checked="" type="checkbox"/> 5180	<input type="checkbox"/> 5200	<input type="checkbox"/> 5240
	Ant.Pol		V



UNII Band I			
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)		
	<input checked="" type="checkbox"/> 802.11a	<input type="checkbox"/> 802.11n(HT20)	<input type="checkbox"/> 802.11n(HT40)
	<input type="checkbox"/> 5180	<input type="checkbox"/> 5200	<input checked="" type="checkbox"/> 5240
	Ant.Pol		H



UNII Band I			
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)		
	<input checked="" type="checkbox"/> 802.11a	<input type="checkbox"/> 802.11n(HT20)	<input type="checkbox"/> 802.11n(HT40)
	<input type="checkbox"/> 5180	<input type="checkbox"/> 5200	<input checked="" type="checkbox"/> 5240
	Ant.Pol		V



- ☒ 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)

Note: (1) The the amplitude of spurious emission in the 26.5GHz-40GHz that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Temperature :	28°C	Test Date :	April 18, 2018
Humidity :	65 %	Test By:	King Kong
Test mode:	802.11a	Frequency(MHz):	5745

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
15178	V	51.31	-43.92	-27.00	-16.92
26364	V	50.22	-45.01	-27.00	-18.01
16419	H	51.47	-43.76	-27.00	-16.76
25820	H	49.20	-46.03	-27.00	-19.03

Temperature :	28°C	Test Date :	April 18, 2018
Humidity :	65 %	Test By:	King Kong
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)
13801	V	51.55	-43.68	-27.00	-16.68
26245	V	50.77	-44.46	-27.00	-17.46
15773	H	51.49	-43.74	-27.00	-16.74
26500	H	49.05	-46.18	-27.00	-19.18

Temperature :	28°C	Test Date :	April 18, 2018
Humidity :	65 %	Test By:	King Kong
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)
14328	V	50.93	-44.3	-27.00	-17.3
24902	V	49.83	-45.4	-27.00	-18.4
14260	H	51.39	-43.84	-27.00	-16.84
24902	H	49.83	-45.4	-27.00	-18.4

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 Spurious Emission in band edge

Temperature :	28°C	Test Date :	April 18, 2018
Humidity :	65 %	Test By:	King Kong
Test mode:	802.11a	Frequency:	5745

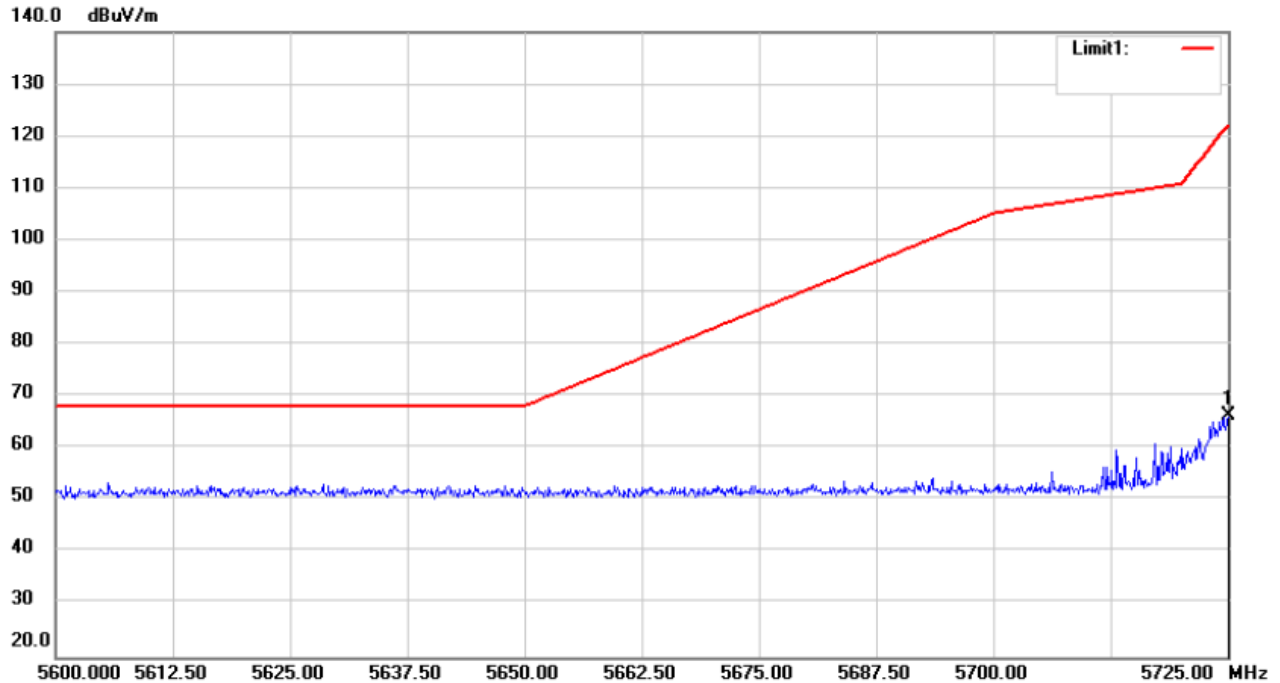
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5724.375	V	67.82	-27.41	25.58	PASS
5725.000	H	66.37	-28.86	27.00	PASS

Temperature :	28°C	Test Date :	April 18, 2018
Humidity :	65 %	Test By:	King Kong
Test mode:	802.11a	Frequency:	5825

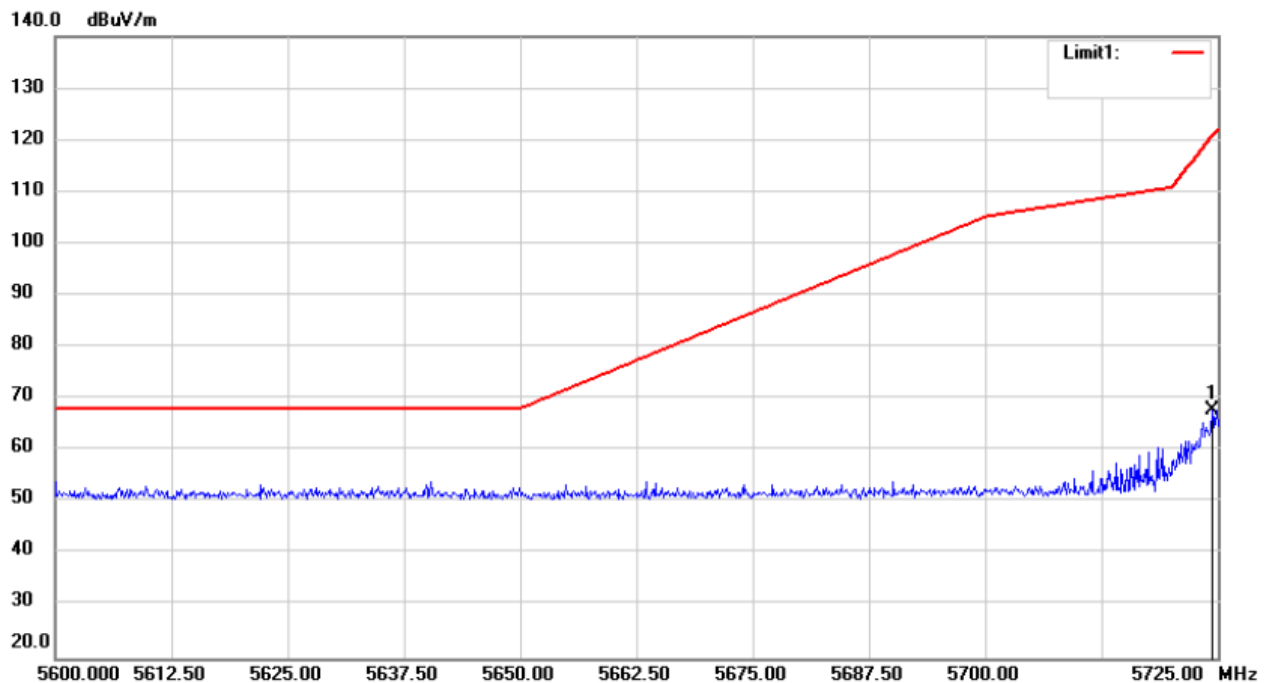
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5850.000	V	64.64	-30.59	27.00	PASS
5850.000	H	65.77	-29.46	27.00	PASS

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

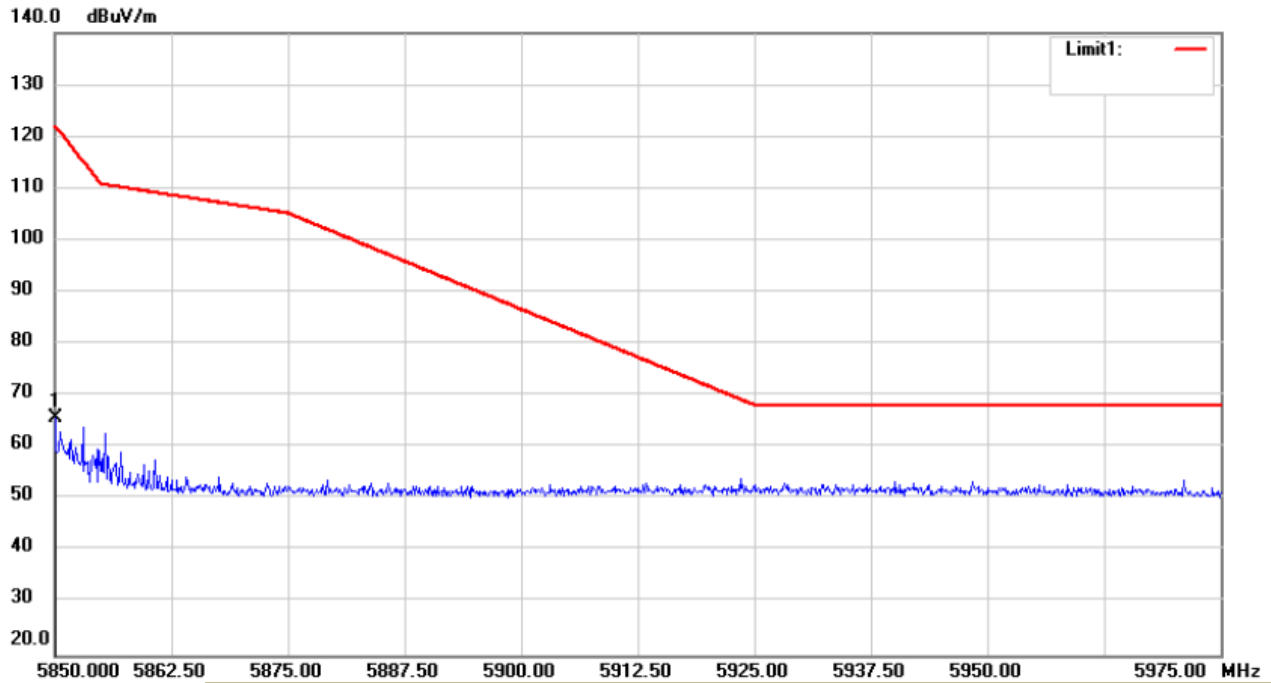
UNII Band III				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	<input checked="" type="checkbox"/> 802.11a	<input type="checkbox"/> 802.11n(HT20)	<input type="checkbox"/> 802.11n(HT40)	
	<input checked="" type="checkbox"/> 5745		Ant.Pol	H



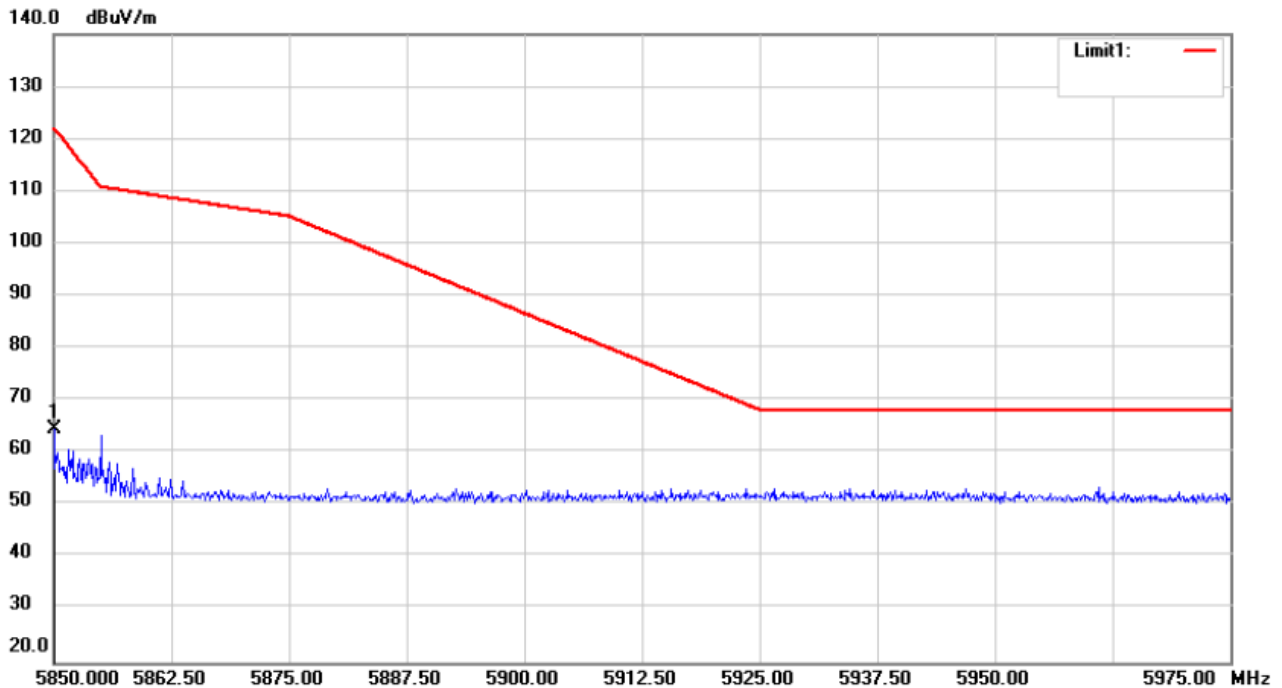
UNII Band III				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	<input checked="" type="checkbox"/> 802.11a	<input type="checkbox"/> 802.11n(HT20)	<input type="checkbox"/> 802.11n(HT40)	
	<input checked="" type="checkbox"/> 5745		Ant.Pol	V



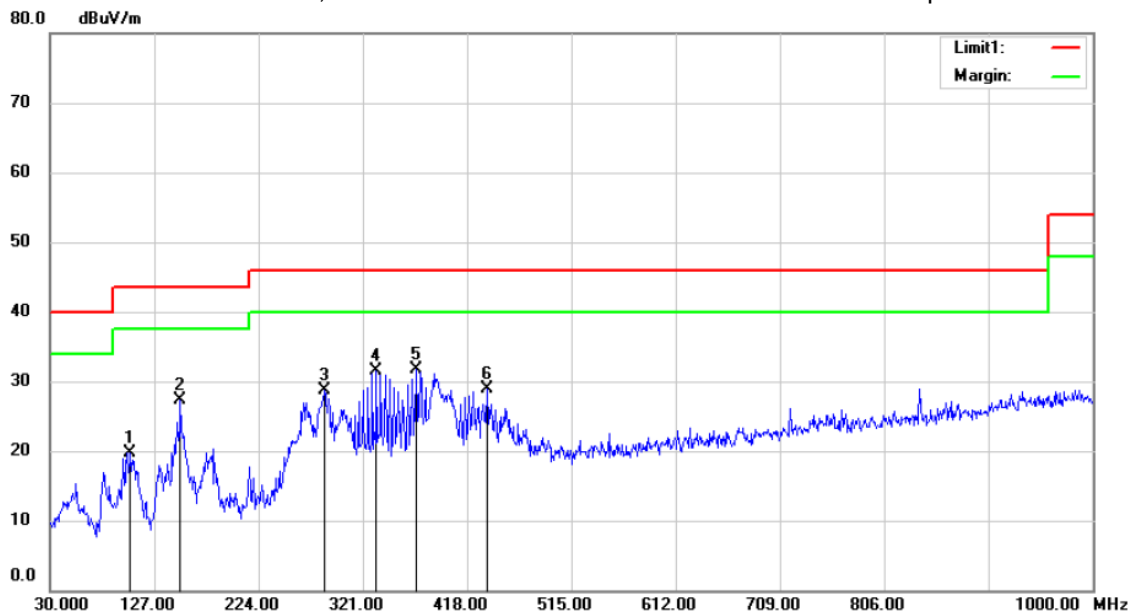
UNII Band III				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	<input checked="" type="checkbox"/> 802.11a	<input type="checkbox"/> 802.11n(HT20)	<input type="checkbox"/> 802.11n(HT40)	
	<input checked="" type="checkbox"/> 5825		Ant.Pol	H



UNII Band III				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	<input checked="" type="checkbox"/> 802.11a	<input type="checkbox"/> 802.11n(HT20)	<input type="checkbox"/> 802.11n(HT40)	
	<input checked="" type="checkbox"/> 5825		Ant.Pol	V



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



Site RE 10M Chamber #1

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15C

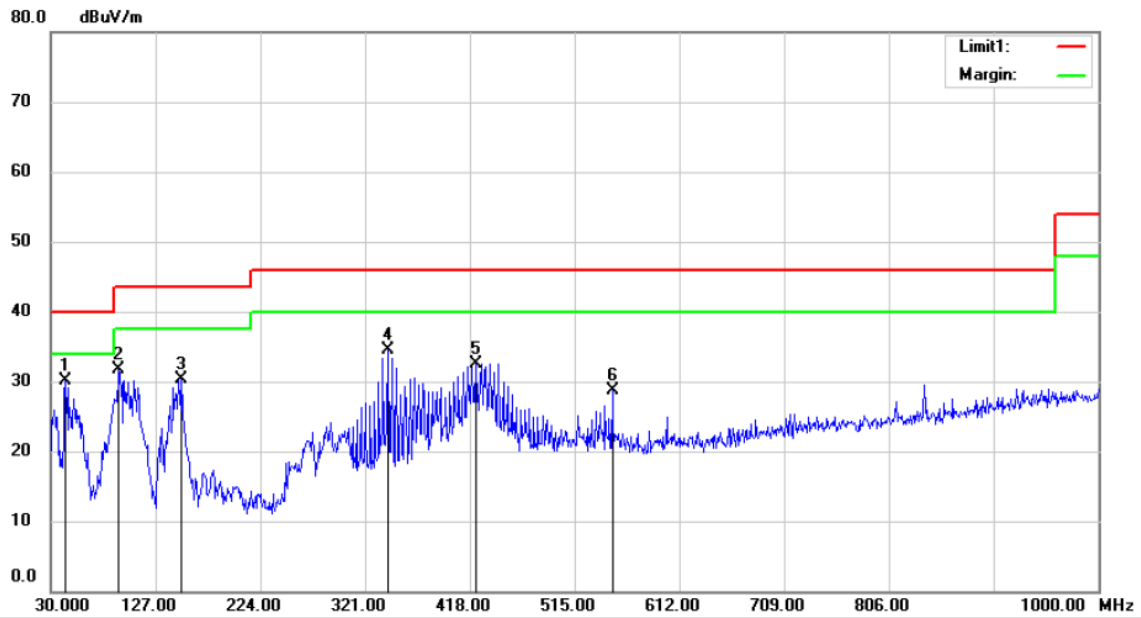
Power: AC 120V/60Hz

Humidity: 53 %

Mode:WIFI5G TX A20 5180

Note:

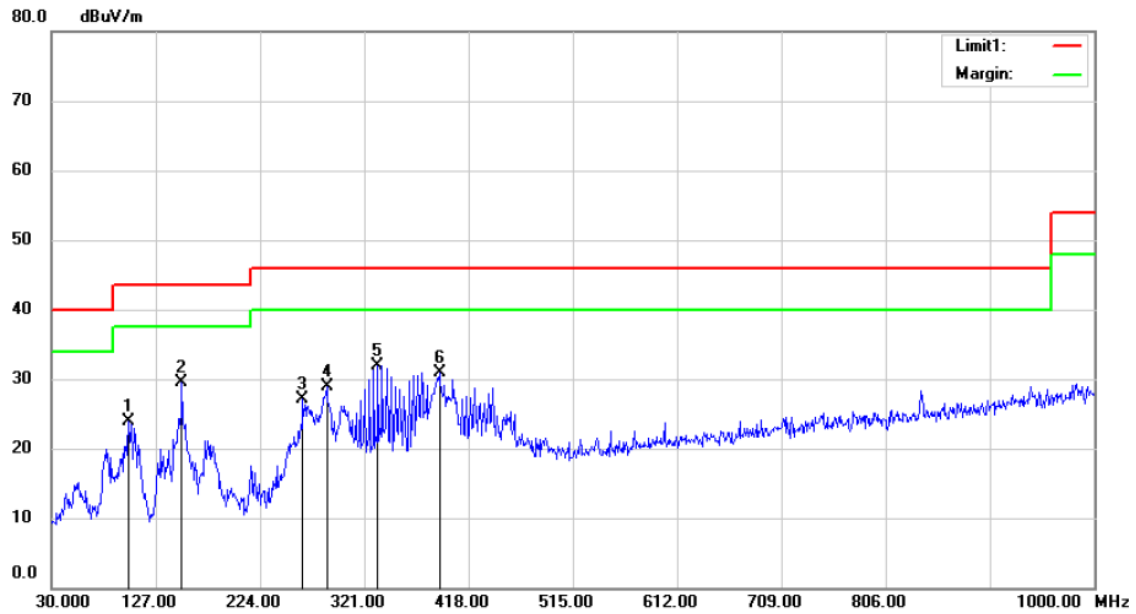
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		104.6900	35.32	-15.56	19.76	43.50	-23.74	QP		
2		151.2500	46.45	-19.07	27.38	43.50	-16.12	QP		
3		285.1100	41.47	-12.84	28.63	46.00	-17.37	QP		
4		333.6100	42.68	-11.17	31.51	46.00	-14.49	QP		
5	*	370.4700	42.26	-10.65	31.61	46.00	-14.39	QP		
6		436.4300	37.72	-8.81	28.91	46.00	-17.09	QP		



Site RE 10M Chamber #1
 Limit: (RE)FCC PART 15C
 Mode:WIFI5G TX A20 5180
 Note:

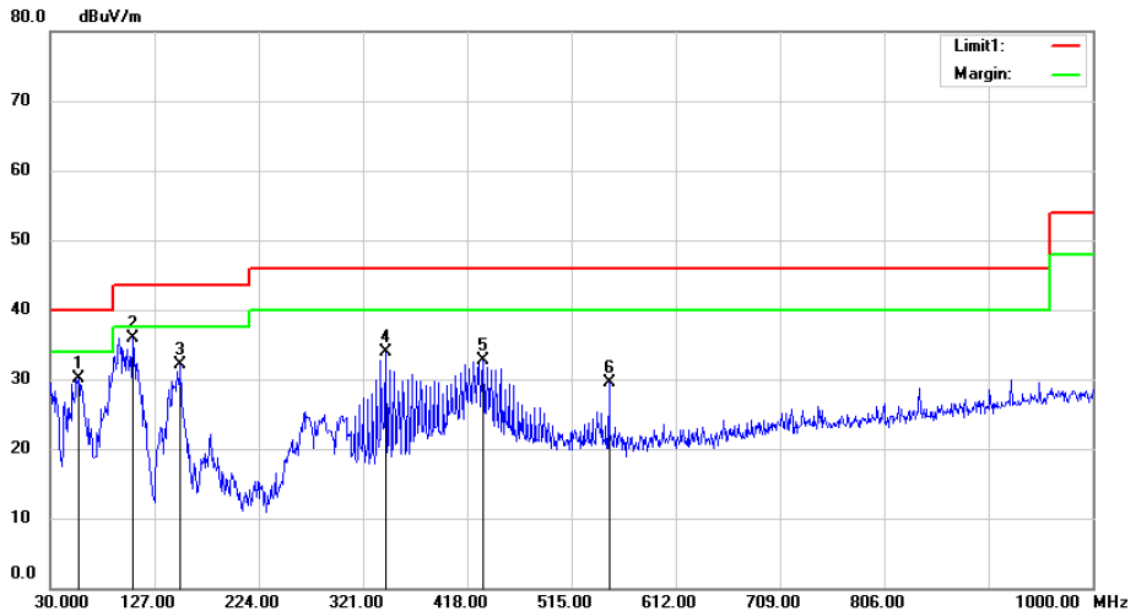
Polarization: **Vertical**
 Power: AC 120V/60Hz
 Temperature: 24 C
 Humidity: 53 %

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
1	*	43.5800	44.32	-14.25	30.07	40.00	-9.93	QP		
2		93.0500	48.79	-17.06	31.73	43.50	-11.77	QP		
3		151.2500	49.39	-19.07	30.32	43.50	-13.18	QP		
4		342.3400	45.18	-10.72	34.46	46.00	-11.54	QP		
5		423.8200	41.43	-8.88	32.55	46.00	-13.45	QP		
6		549.9200	35.28	-6.66	28.62	46.00	-17.38	QP		



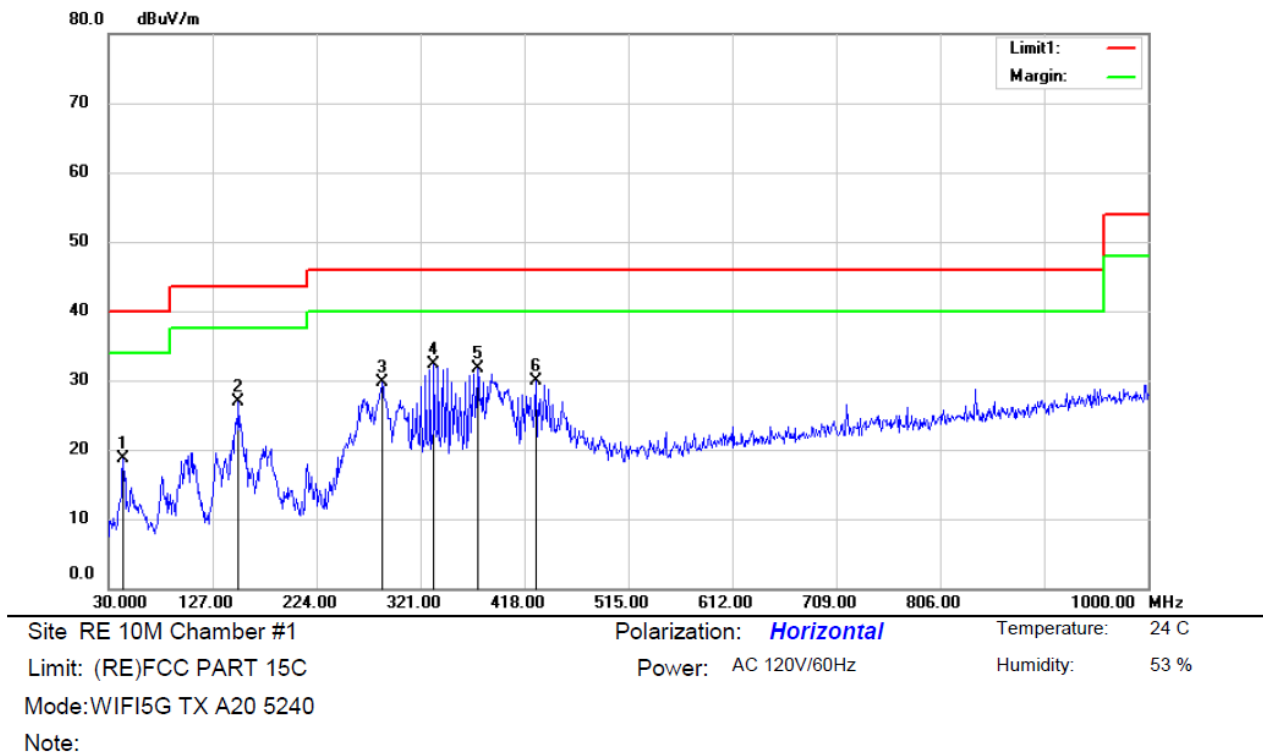
Site RE 10M Chamber #1 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15C Power: AC 120V/60Hz Humidity: 53 %
 Mode:WIFI5G TX A20 5200
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		101.7800	39.64	-15.82	23.82	43.50	-19.68	QP		
2	*	151.2500	48.57	-19.07	29.50	43.50	-14.00	QP		
3		263.7700	40.38	-13.32	27.06	46.00	-18.94	QP		
4		286.0800	41.72	-12.79	28.93	46.00	-17.07	QP		
5		333.6100	43.17	-11.17	32.00	46.00	-14.00	QP		
6		390.8400	40.82	-9.87	30.95	46.00	-15.05	QP		

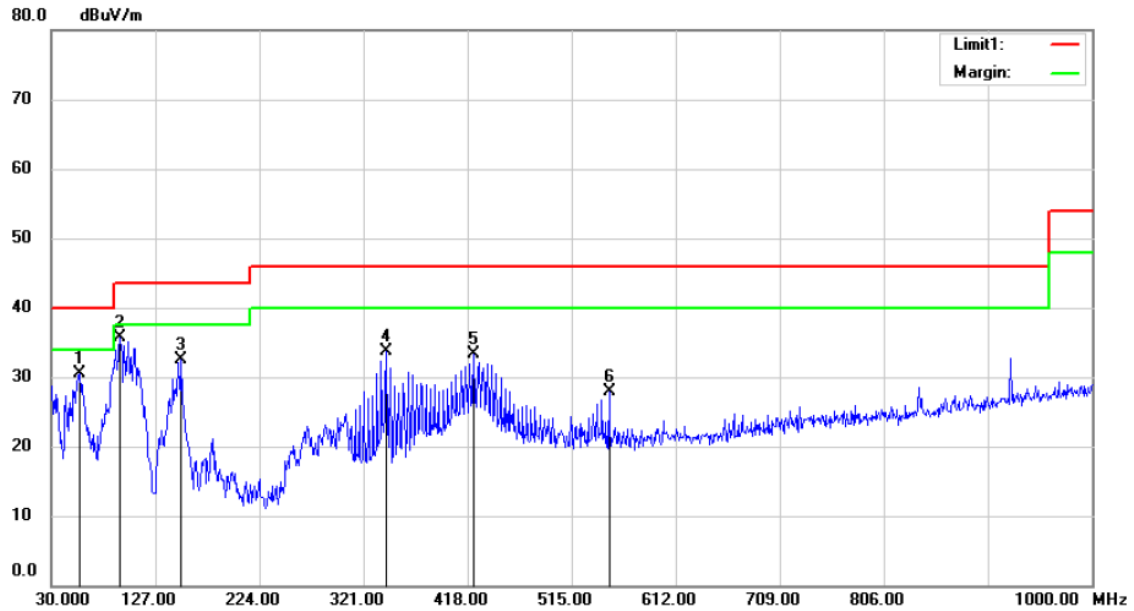


Site RE 10M Chamber #1 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15C Power: AC 120V/60Hz Humidity: 53 %
 Mode:WIFI5G TX A20 5200
 Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		56.1900	44.89	-14.76	30.13	40.00	-9.87	QP		
2	*	106.6300	51.50	-15.54	35.96	43.50	-7.54	QP		
3		151.2500	51.21	-19.07	32.14	43.50	-11.36	QP		
4		342.3400	44.59	-10.72	33.87	46.00	-12.13	QP		
5		432.5500	41.54	-8.86	32.68	46.00	-13.32	QP		
6		549.9200	36.11	-6.66	29.45	46.00	-16.55	QP		



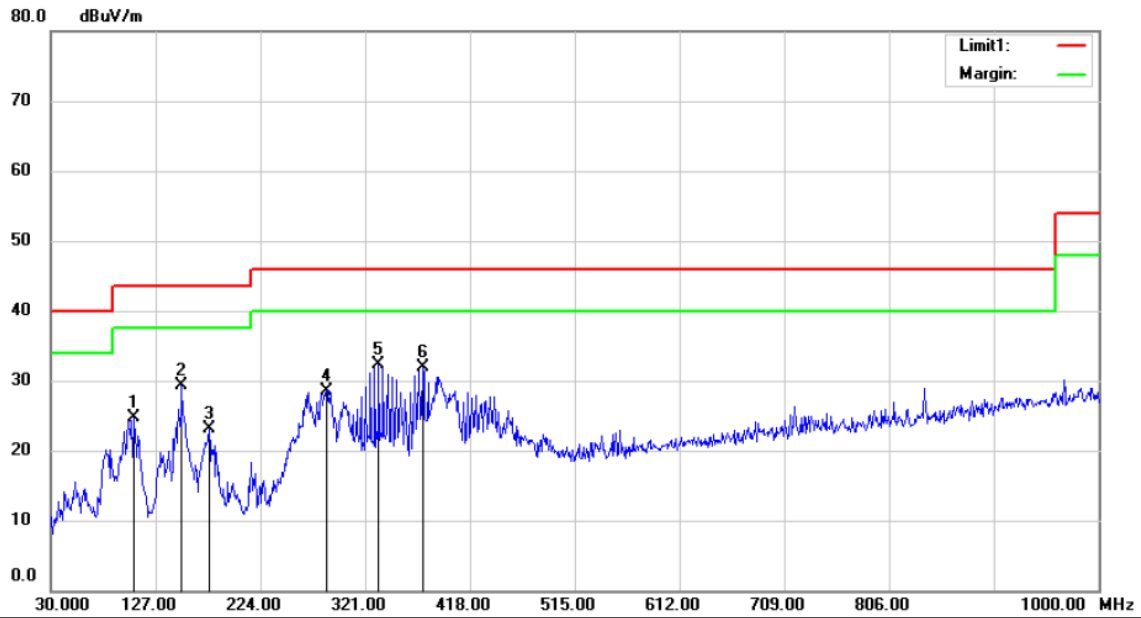
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		43.5800	32.97	-14.25	18.72	40.00	-21.28	QP		
2		151.2500	45.98	-19.07	26.91	43.50	-16.59	QP		
3		285.1100	42.60	-12.84	29.76	46.00	-16.24	QP		
4	*	333.6100	43.57	-11.17	32.40	46.00	-13.60	QP		
5		374.3500	42.15	-10.37	31.78	46.00	-14.22	QP		
6		428.6700	38.72	-8.90	29.82	46.00	-16.18	QP		



Site RE 10M Chamber #1
 Limit: (RE)FCC PART 15C
 Mode: WIFI5G TX A20 5240
 Note:

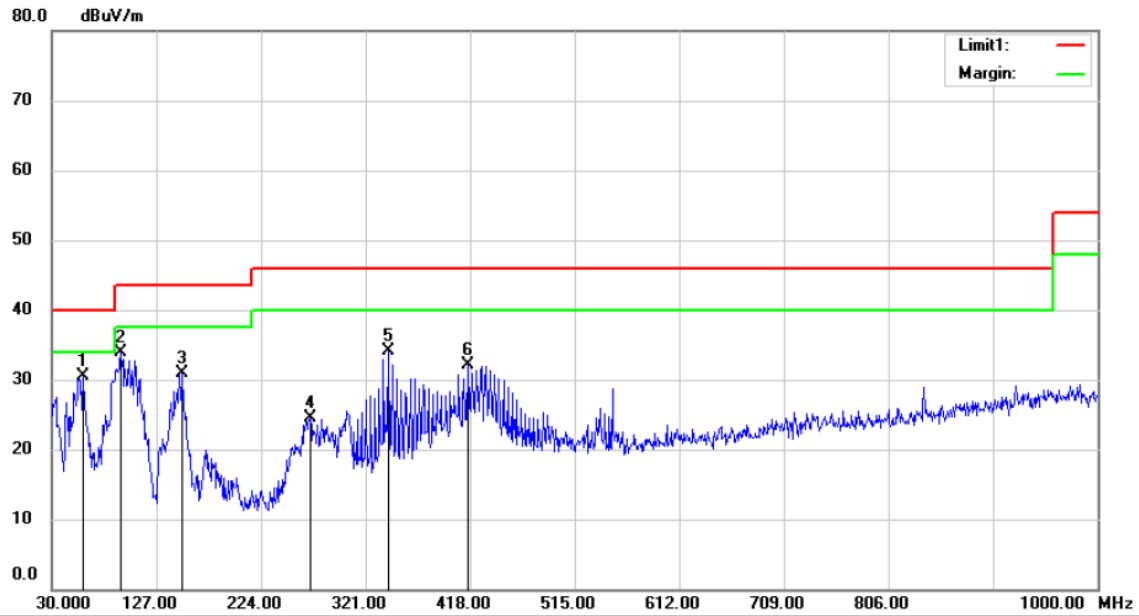
Polarization: **Vertical**
 Power: AC 120V/60Hz
 Temperature: 24 C
 Humidity: 53 %

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		56.1900	45.26	-14.76	30.50	40.00	-9.50	QP		
2	*	94.0200	52.47	-16.84	35.63	43.50	-7.87	QP		
3		151.2500	51.51	-19.07	32.44	43.50	-11.06	QP		
4		342.3400	44.36	-10.72	33.64	46.00	-12.36	QP		
5		423.8200	42.10	-8.88	33.22	46.00	-12.78	QP		
6		549.9200	34.51	-6.66	27.85	46.00	-18.15	QP		



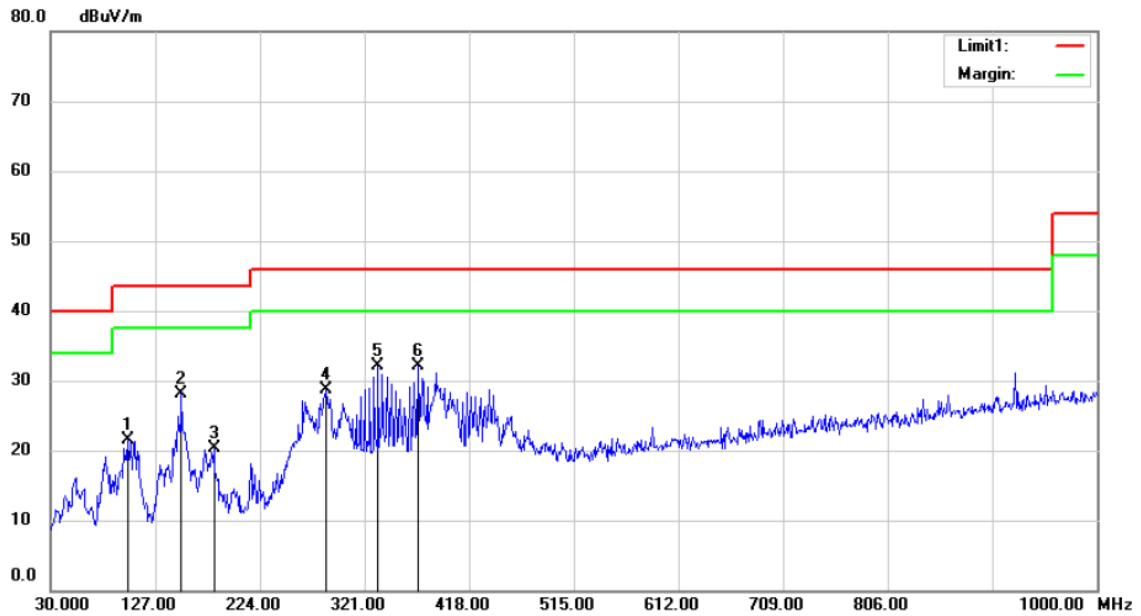
Site RE 10M Chamber #1 Polarization: **Horizontal** Temperature: 24 C
Limit: (RE)FCC PART 15C Power: AC 120V/60Hz Humidity: 53 %
Mode:WIFI5G TX A20 5745
Note:

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
1		106.6300	40.22	-15.54	24.68	43.50	-18.82	QP		
2		151.2500	48.31	-19.07	29.24	43.50	-14.26	QP		
3		176.4700	40.75	-17.65	23.10	43.50	-20.40	QP		
4		285.1100	41.42	-12.84	28.58	46.00	-17.42	QP		
5	*	333.6100	43.41	-11.17	32.24	46.00	-13.76	QP		
6		374.3500	42.32	-10.37	31.95	46.00	-14.05	QP		



Site RE 10M Chamber #1 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15C Power: AC 120V/60Hz Humidity: 53 %
 Mode: WIFI5G TX A20 5745
 Note:

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
1		59.1000	45.95	-15.53	30.42	40.00	-9.58	QP		
2	*	94.0200	50.81	-16.84	33.97	43.50	-9.53	QP		
3		151.2500	49.98	-19.07	30.91	43.50	-12.59	QP		
4		269.5900	37.89	-13.32	24.57	46.00	-21.43	QP		
5		342.3400	44.79	-10.72	34.07	46.00	-11.93	QP		
6		416.0600	41.17	-9.02	32.15	46.00	-13.85	QP		



Site RE 10M Chamber #1

Polarization: **Horizontal**

Temperature: 24 C

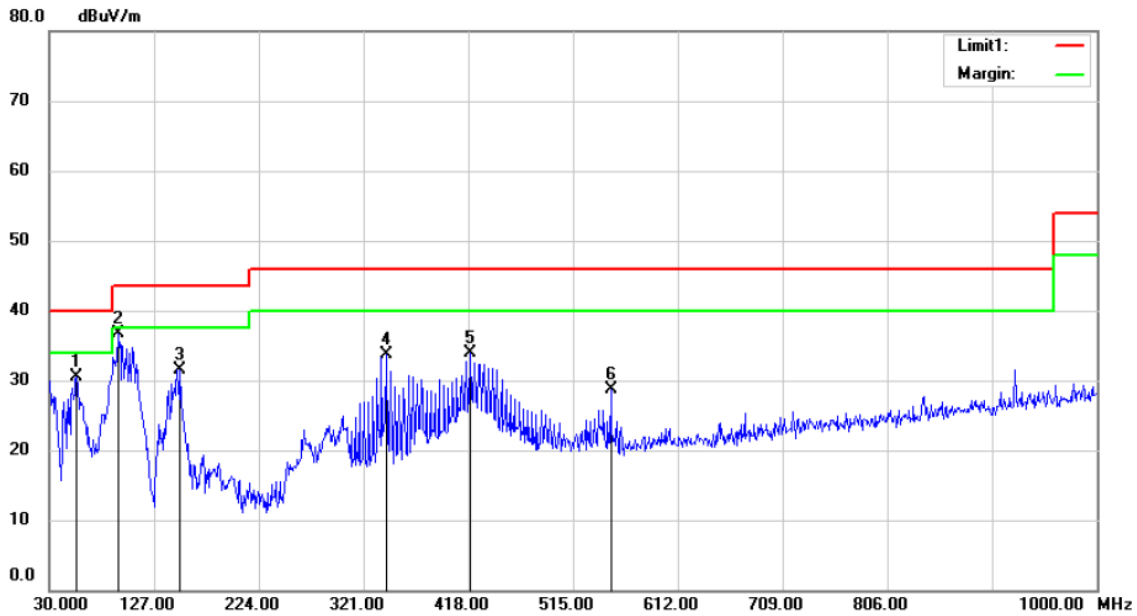
Limit: (RE)FCC PART 15C
Mode:WIFI5G TX A20 5785

Power: AC 120V/60Hz

Humidity: 53 %

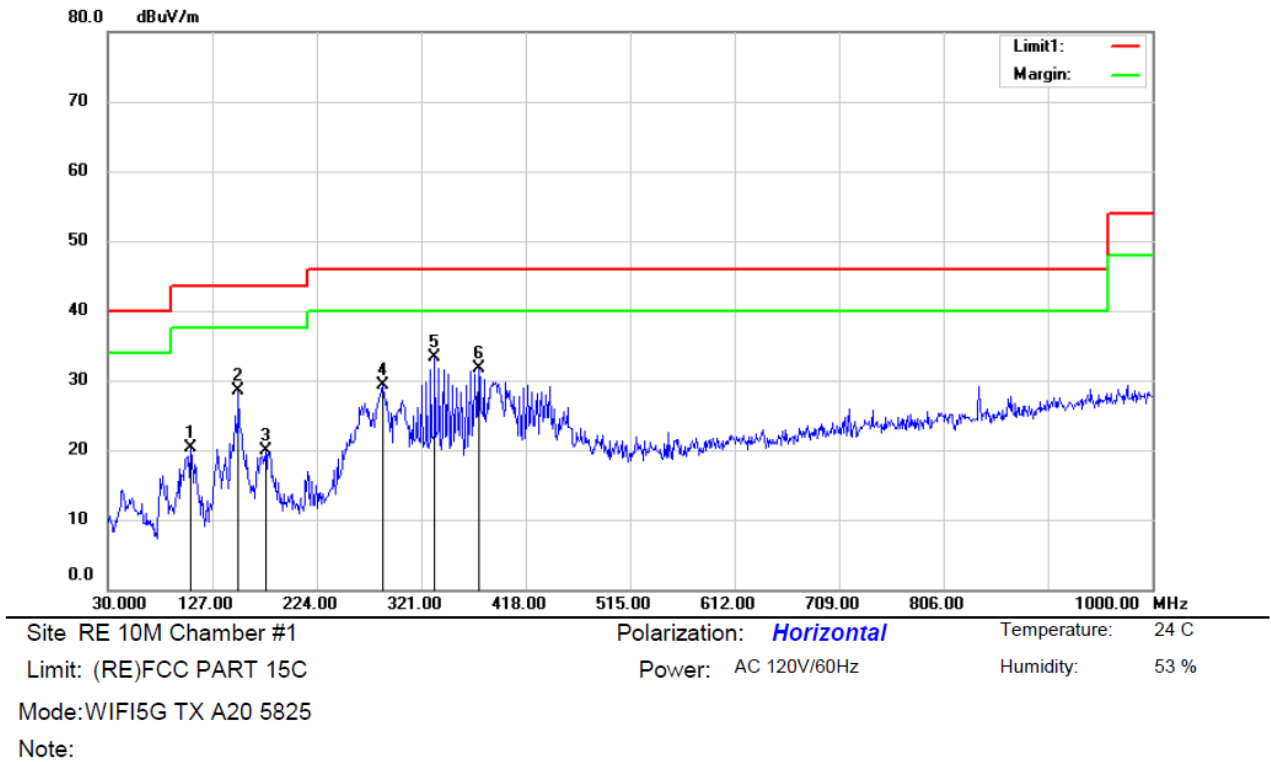
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		101.7800	37.35	-15.82	21.53	43.50	-21.97	QP		
2		151.2500	47.17	-19.07	28.10	43.50	-15.40	QP		
3		181.3200	37.46	-17.11	20.35	43.50	-23.15	QP		
4		285.1100	41.48	-12.84	28.64	46.00	-17.36	QP		
5		333.6100	43.18	-11.17	32.01	46.00	-13.99	QP		
6	*	370.4700	42.75	-10.65	32.10	46.00	-13.90	QP		

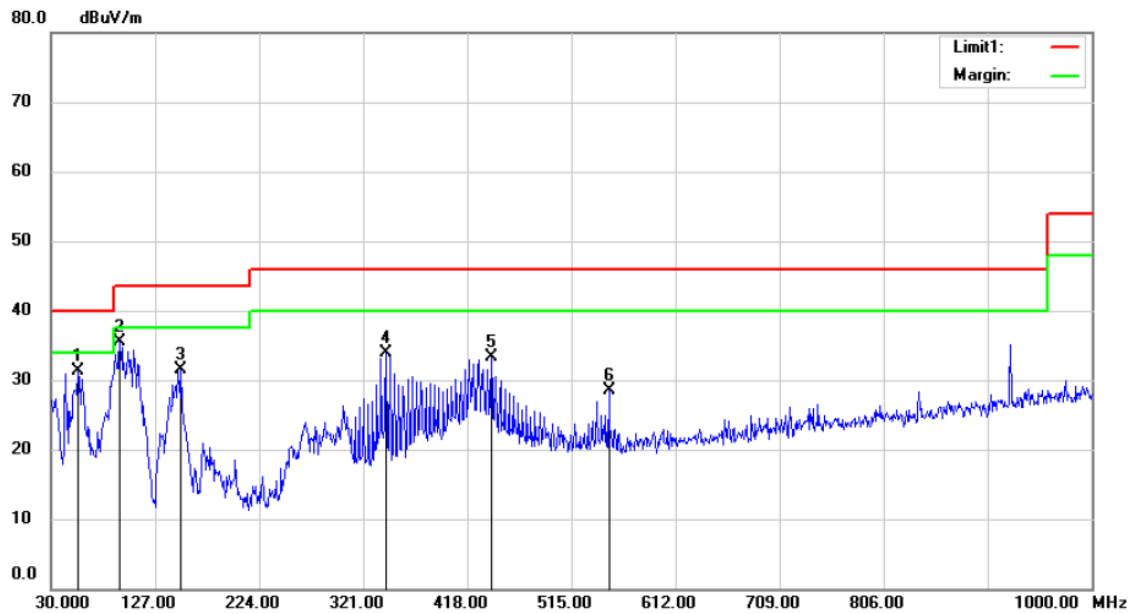


Site RE 10M Chamber #1 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15C Power: AC 120V/60Hz Humidity: 53 %
 Mode:WIFI5G TX A20 5785
 Note:

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
1		55.2200	45.08	-14.50	30.58	40.00	-9.42	QP		
2	*	94.0200	53.48	-16.84	36.64	43.50	-6.86	QP		
3		151.2500	50.53	-19.07	31.46	43.50	-12.04	QP		
4		342.3400	44.49	-10.72	33.77	46.00	-12.23	QP		
5		419.9400	42.69	-8.85	33.84	46.00	-12.16	QP		
6		549.9200	35.30	-6.66	28.64	46.00	-17.36	QP		



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		106.6300	35.79	-15.54	20.25	43.50	-23.25	QP		
2		151.2500	47.48	-19.07	28.41	43.50	-15.09	QP		
3		176.4700	37.61	-17.65	19.96	43.50	-23.54	QP		
4		285.1100	42.11	-12.84	29.27	46.00	-16.73	QP		
5	*	333.6100	44.57	-11.17	33.40	46.00	-12.60	QP		
6		374.3500	42.07	-10.37	31.70	46.00	-14.30	QP		



Site RE 10M Chamber #1 Polarization: **Vertical** Temperature: 24 C
Limit: (RE)FCC PART 15C Power: AC 120V/60Hz Humidity: 53 %
Mode: WIFI5G TX A20 5825
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		55.2200	45.81	-14.50	31.31	40.00	-8.69	QP		
2	*	94.0200	52.31	-16.84	35.47	43.50	-8.03	QP		
3		151.2500	50.57	-19.07	31.50	43.50	-12.00	QP		
4		342.3400	44.60	-10.72	33.88	46.00	-12.12	QP		
5		440.3100	42.13	-8.76	33.37	46.00	-12.63	QP		
6		549.9200	35.18	-6.66	28.52	46.00	-17.48	QP		

8.6 POWER LINE CONDUCTED EMISSIONS

8.6.1 Applicable Standard

According to FCC Part 15.207(a)

8.6.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	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

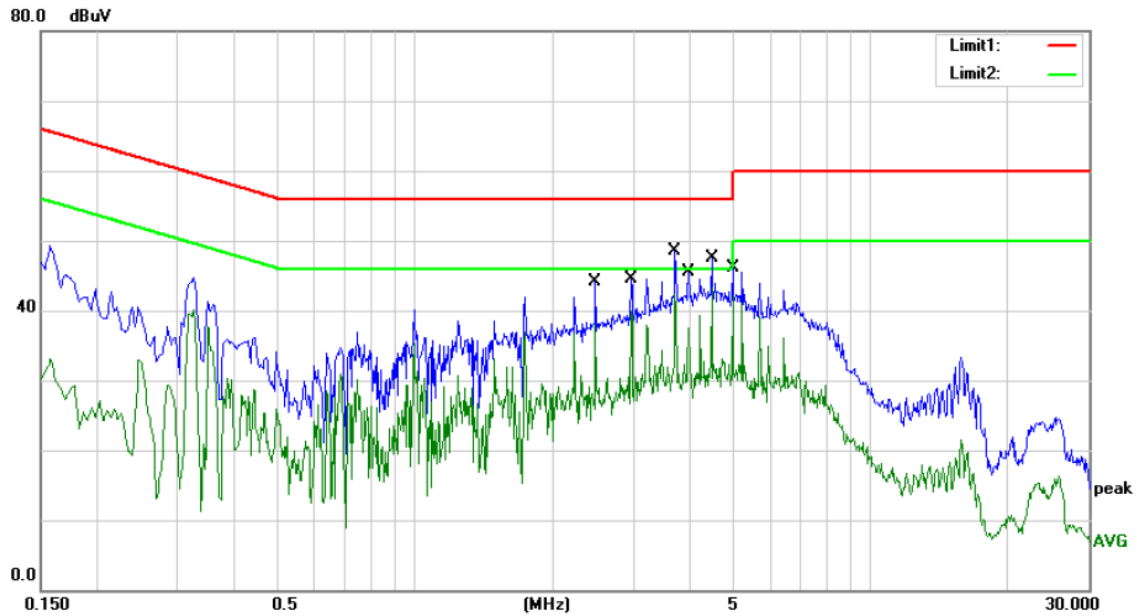
The EUT was placed on a table which is 0.8m above ground plane.

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



Site Conduction #1

Phase: **L1**

Temperature: 24.9

Limit: (CE)FCC PART 15 C

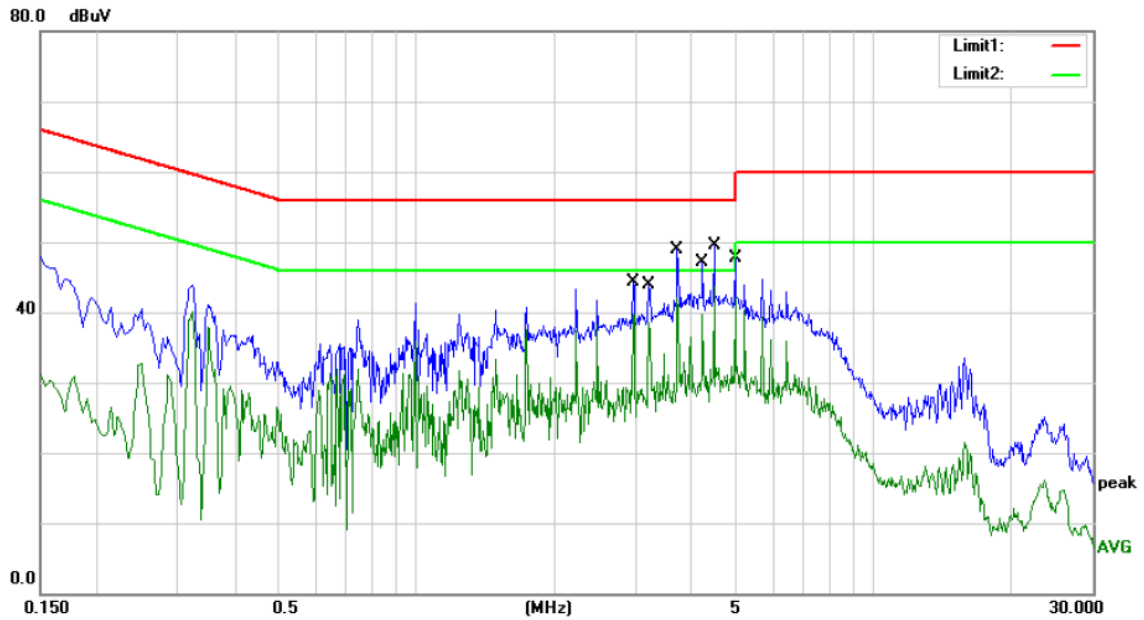
Power: AC 120V/60Hz

Humidity: 54 %

Mode: BT mode

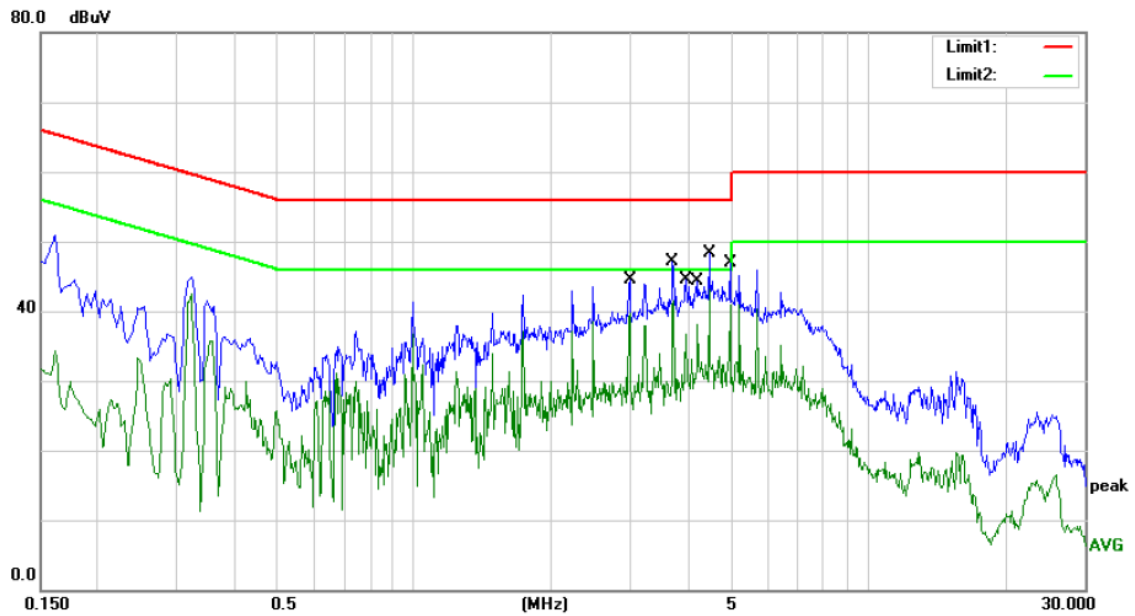
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		2.4820	34.26	9.80	44.06	56.00	-11.94	QP	
2		2.4820	28.30	9.80	38.10	46.00	-7.90	AVG	
3		2.9740	34.74	9.80	44.54	56.00	-11.46	QP	
4		2.9740	30.15	9.80	39.95	46.00	-6.05	AVG	
5		3.7180	38.75	9.80	48.55	56.00	-7.45	QP	
6		3.7180	32.47	9.80	42.27	46.00	-3.73	AVG	
7		3.9660	35.79	9.80	45.59	56.00	-10.41	QP	
8		3.9660	29.54	9.80	39.34	46.00	-6.66	AVG	
9		4.4620	37.67	9.80	47.47	56.00	-8.53	QP	
10	*	4.4620	33.47	9.80	43.27	46.00	-2.73	AVG	
11		4.9580	36.38	9.80	46.18	56.00	-9.82	QP	
12		4.9580	32.37	9.80	42.17	46.00	-3.83	AVG	



Site Conduction #1 Phase: **N** Temperature: 24.9
 Limit: (CE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 54 %
 Mode: BT mode
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		2.9740	34.47	9.80	44.27	56.00	-11.73	QP	
2		2.9740	29.92	9.80	39.72	46.00	-6.28	AVG	
3		3.2220	34.05	9.80	43.85	56.00	-12.15	QP	
4		3.2220	28.65	9.80	38.45	46.00	-7.55	AVG	
5		3.7180	39.20	9.80	49.00	56.00	-7.00	QP	
6		3.7180	32.39	9.80	42.19	46.00	-3.81	AVG	
7		4.2140	37.38	9.80	47.18	56.00	-8.82	QP	
8		4.2140	29.83	9.80	39.63	46.00	-6.37	AVG	
9		4.4620	39.67	9.80	49.47	56.00	-6.53	QP	
10	*	4.4620	33.96	9.80	43.76	46.00	-2.24	AVG	
11		4.9580	37.90	9.80	47.70	56.00	-8.30	QP	
12		4.9580	32.30	9.80	42.10	46.00	-3.90	AVG	



Site Conduction #1

Phase: **L1**

Temperature: 24.9

Limit: (CE)FCC PART 15 C

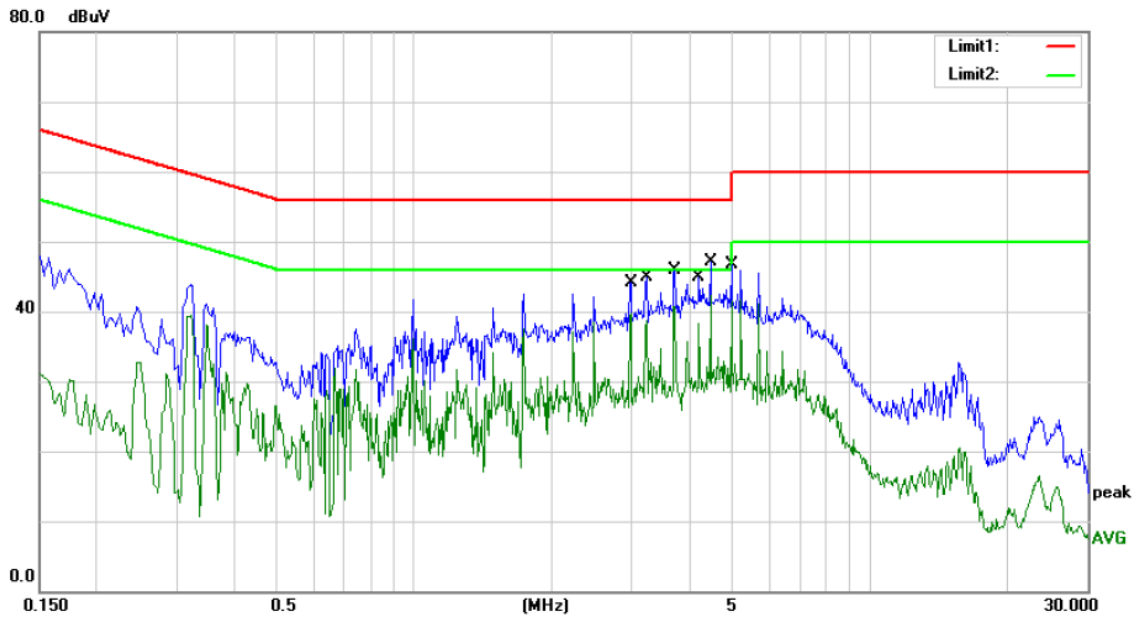
Power: AC 120V/60Hz

Humidity: 54 %

Mode: AP mode

Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	2.9780	34.71	9.80	44.51	56.00	-11.49	QP	
2	2.9780	29.83	9.80	39.63	46.00	-6.37	AVG	
3	3.7180	37.24	9.80	47.04	56.00	-8.96	QP	
4	3.7180	31.63	9.80	41.43	46.00	-4.57	AVG	
5	3.9700	34.70	9.80	44.50	56.00	-11.50	QP	
6	3.9700	26.88	9.80	36.68	46.00	-9.32	AVG	
7	4.2140	34.58	9.80	44.38	56.00	-11.62	QP	
8	4.2140	28.31	9.80	38.11	46.00	-7.89	AVG	
9	4.4620	38.51	9.80	48.31	56.00	-7.69	QP	
10 *	4.4620	33.31	9.80	43.11	46.00	-2.89	AVG	
11	4.9580	37.09	9.80	46.89	56.00	-9.11	QP	
12	4.9580	31.05	9.80	40.85	46.00	-5.15	AVG	



Site Conduction #1

Phase: **N**

Temperature: 24.9

Limit: (CE)FCC PART 15 C

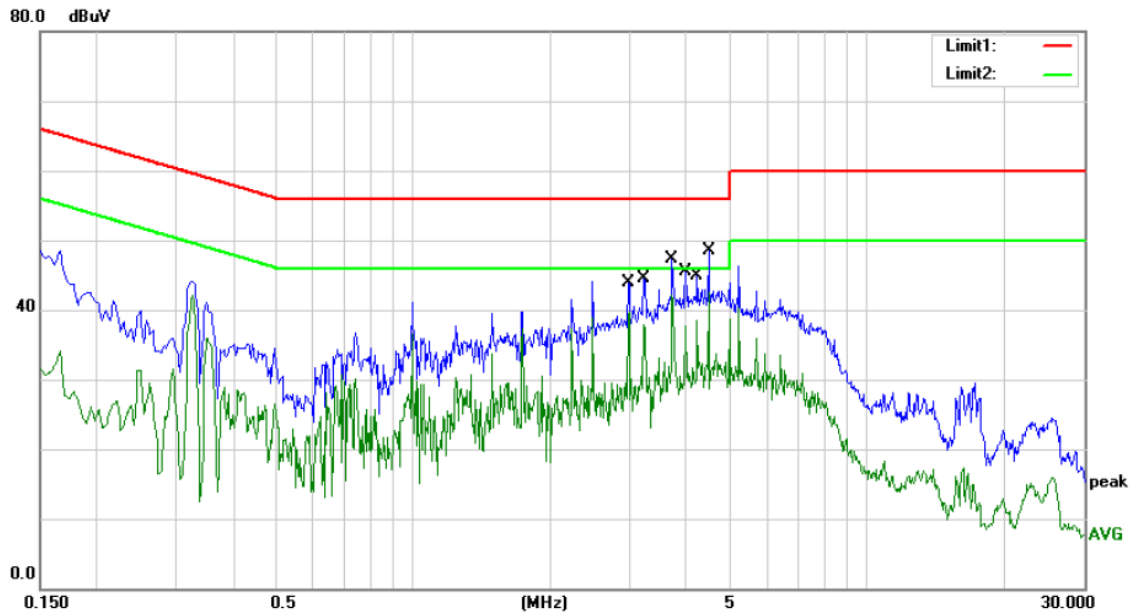
Power: AC 120V/60Hz

Humidity: 54 %

Mode: AP mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		2.9780	34.28	9.80	44.08	56.00	-11.92	QP	
2		2.9780	30.00	9.80	39.80	46.00	-6.20	AVG	
3		3.2260	35.03	9.80	44.83	56.00	-11.17	QP	
4		3.2260	28.97	9.80	38.77	46.00	-7.23	AVG	
5		3.7220	36.13	9.80	45.93	56.00	-10.07	QP	
6		3.7220	30.98	9.80	40.78	46.00	-5.22	AVG	
7		4.2180	35.10	9.80	44.90	56.00	-11.10	QP	
8		4.2180	28.42	9.80	38.22	46.00	-7.78	AVG	
9		4.4620	37.37	9.80	47.17	56.00	-8.83	QP	
10	*	4.4620	32.45	9.80	42.25	46.00	-3.75	AVG	
11		4.9580	36.82	9.80	46.62	56.00	-9.38	QP	
12		4.9580	31.76	9.80	41.56	46.00	-4.44	AVG	



Site Conduction #1

Phase: **L1**

Temperature: 24.9

Limit: (CE)FCC PART 15 C

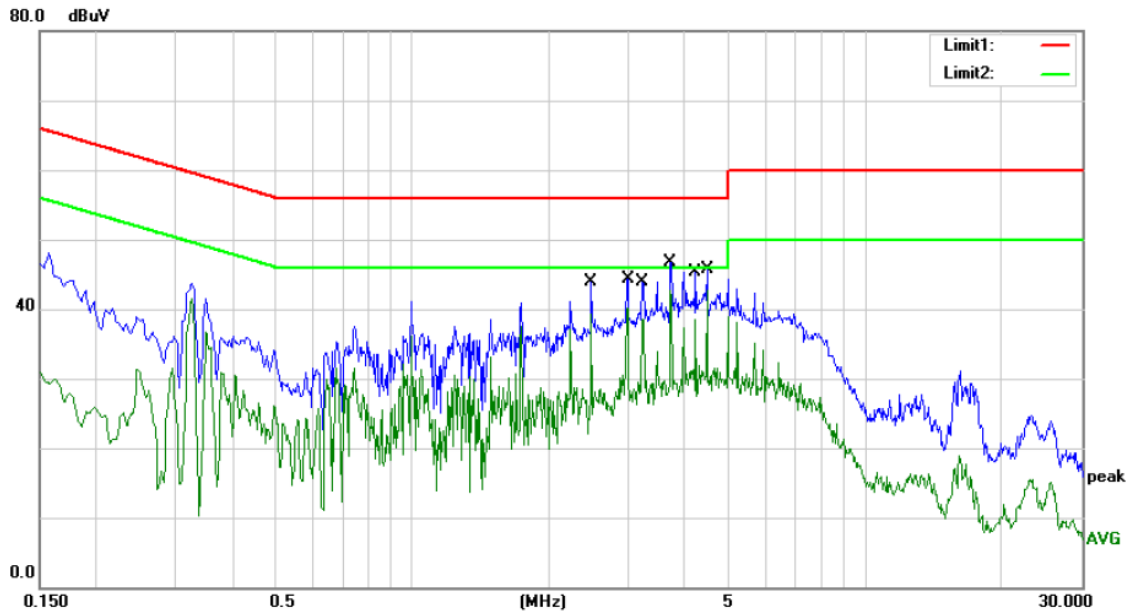
Power: AC 120V/60Hz

Humidity: 54 %

Mode: WIFI Connecting mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		2.9740	34.14	9.80	43.94	56.00	-12.06	QP	
2		2.9740	29.87	9.80	39.67	46.00	-6.33	AVG	
3		3.2220	34.78	9.80	44.58	56.00	-11.42	QP	
4		3.2220	28.08	9.80	37.88	46.00	-8.12	AVG	
5		3.7180	37.52	9.80	47.32	56.00	-8.68	QP	
6		3.7180	32.30	9.80	42.10	46.00	-3.90	AVG	
7		3.9660	35.69	9.80	45.49	56.00	-10.51	QP	
8		3.9660	27.90	9.80	37.70	46.00	-8.30	AVG	
9		4.2140	35.05	9.80	44.85	56.00	-11.15	QP	
10		4.2140	28.71	9.80	38.51	46.00	-7.49	AVG	
11		4.4620	38.63	9.80	48.43	56.00	-7.57	QP	
12	*	4.4620	32.66	9.80	42.46	46.00	-3.54	AVG	



Site Conduction #1

Phase: **N**

Temperature: 24.9

Limit: (CE)FCC PART 15 C

Power: AC 120V/60Hz

Humidity: 54 %

Mode: WIFI Connecting mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		2.4820	34.19	9.80	43.99	56.00	-12.01	QP	
2		2.4820	29.50	9.80	39.30	46.00	-6.70	AVG	
3		2.9780	34.43	9.80	44.23	56.00	-11.77	QP	
4		2.9780	30.36	9.80	40.16	46.00	-5.84	AVG	
5		3.2220	34.12	9.80	43.92	56.00	-12.08	QP	
6		3.2220	28.78	9.80	38.58	46.00	-7.42	AVG	
7		3.7180	36.96	9.80	46.76	56.00	-9.24	QP	
8		3.7180	32.87	9.80	42.67	46.00	-3.33	AVG	
9		4.2140	35.48	9.80	45.28	56.00	-10.72	QP	
10		4.2140	28.68	9.80	38.48	46.00	-7.52	AVG	
11		4.4620	36.00	9.80	45.80	56.00	-10.20	QP	
12	*	4.4620	32.93	9.80	42.73	46.00	-3.27	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.

For intentional device, according to RSS-Gen Issue 4 Section 8.3:

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for licence-exempt apparatus.

RSS-247 Section 5.4

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

8.7.2 Result

PASS.

The EUT has a PCB antennas for WIFI 5G band, the antenna max gain is 3.42 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)

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which in accordance to section 15.203, please refer to the internal photos.