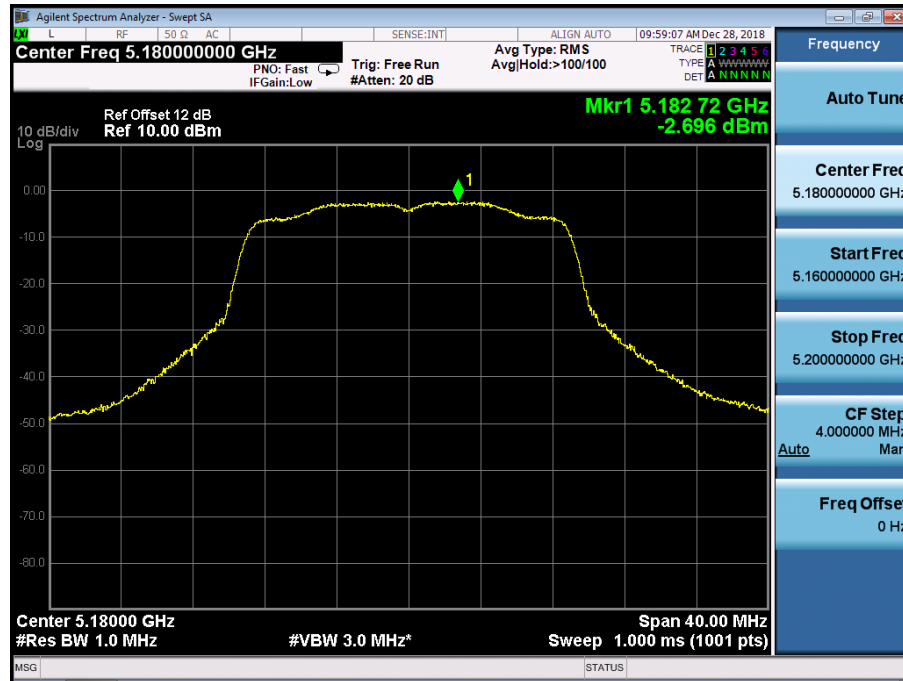
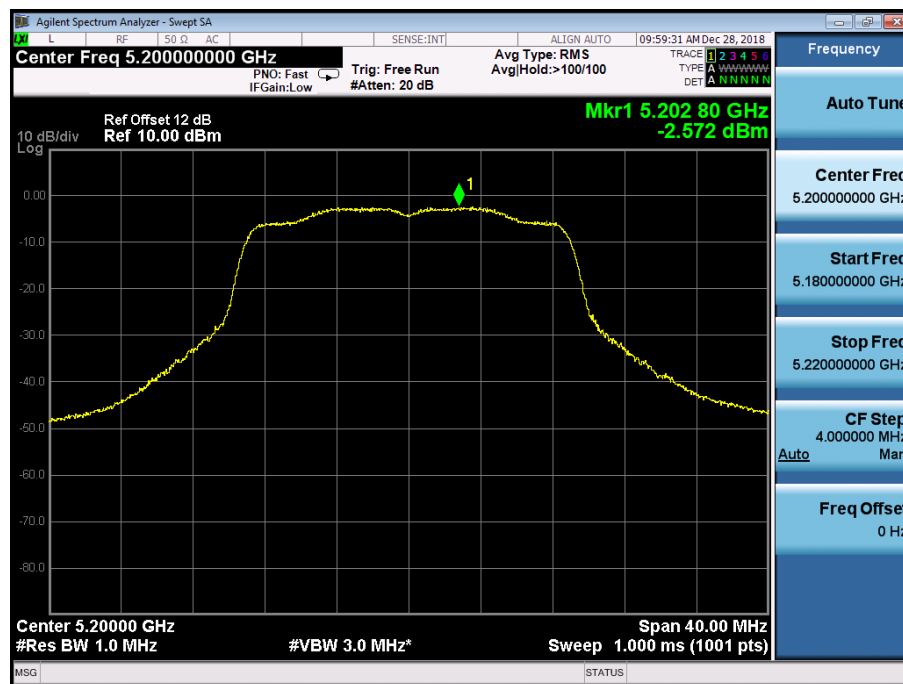


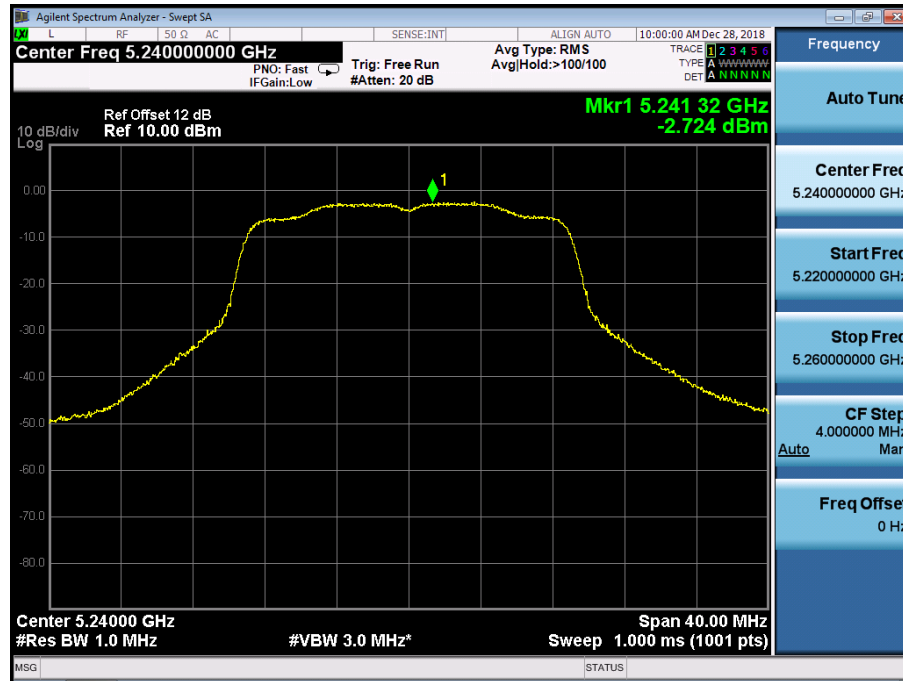
Power Spectral Density UNII Band I
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5180



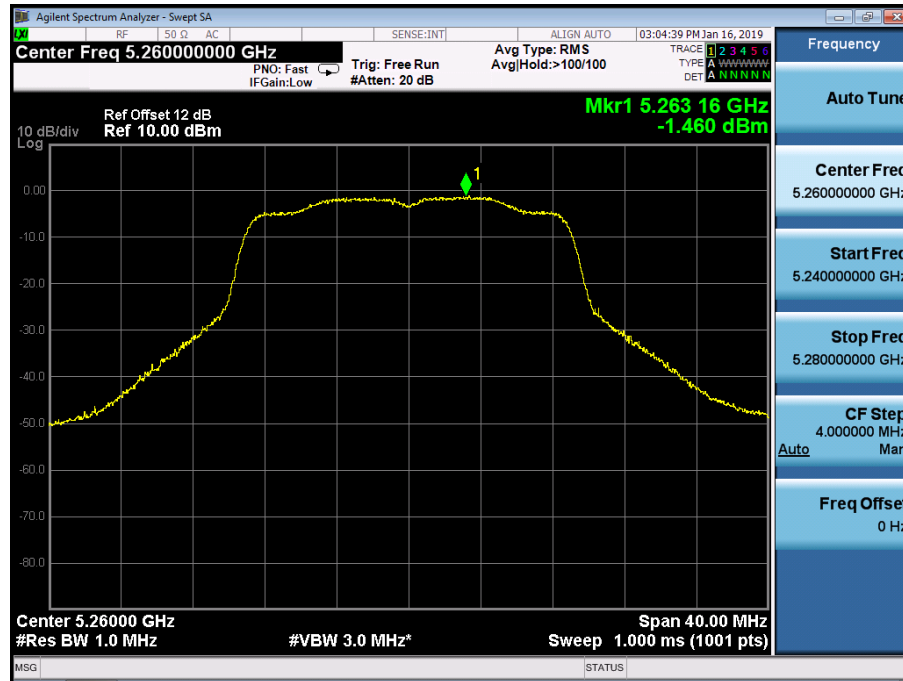
Power Spectral Density UNII Band I
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5200



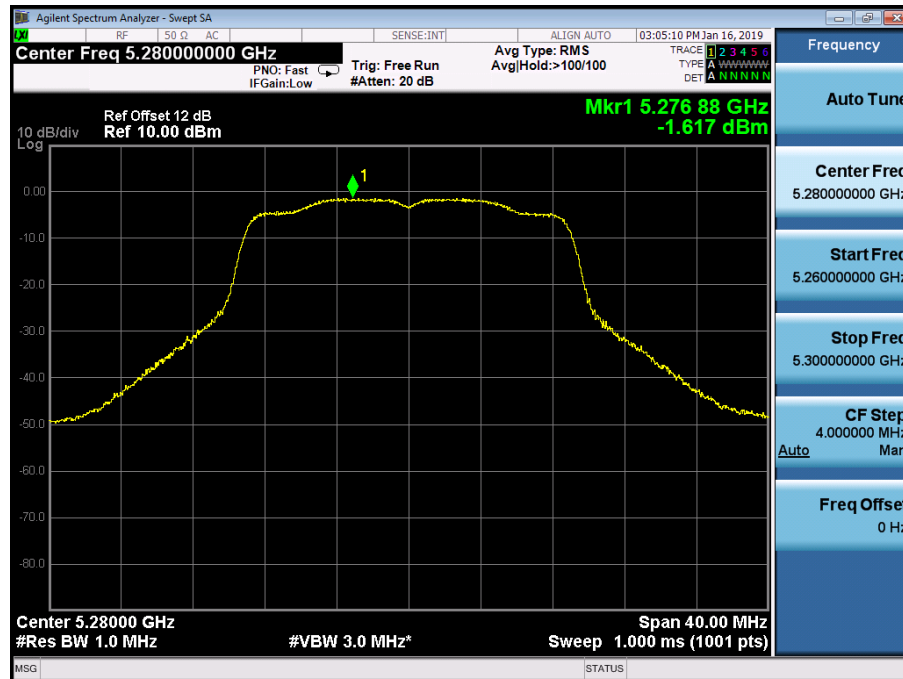
Power Spectral Density	UNII Band I
Test Model 802.11ac(VHT20) mode	Frequency(MHz) 5240



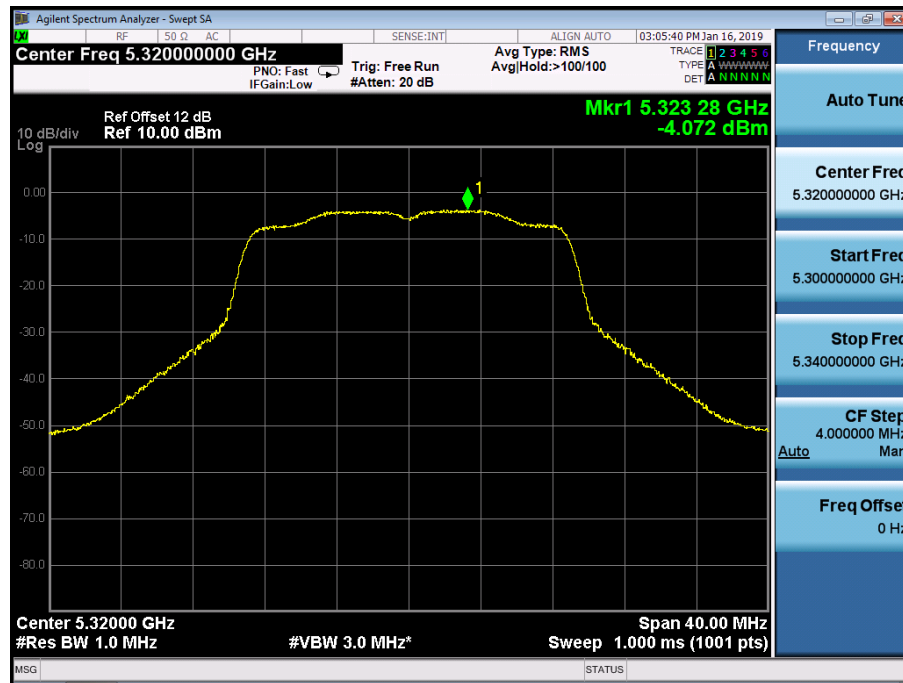
Power Spectral Density UNII Band II-A
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5260



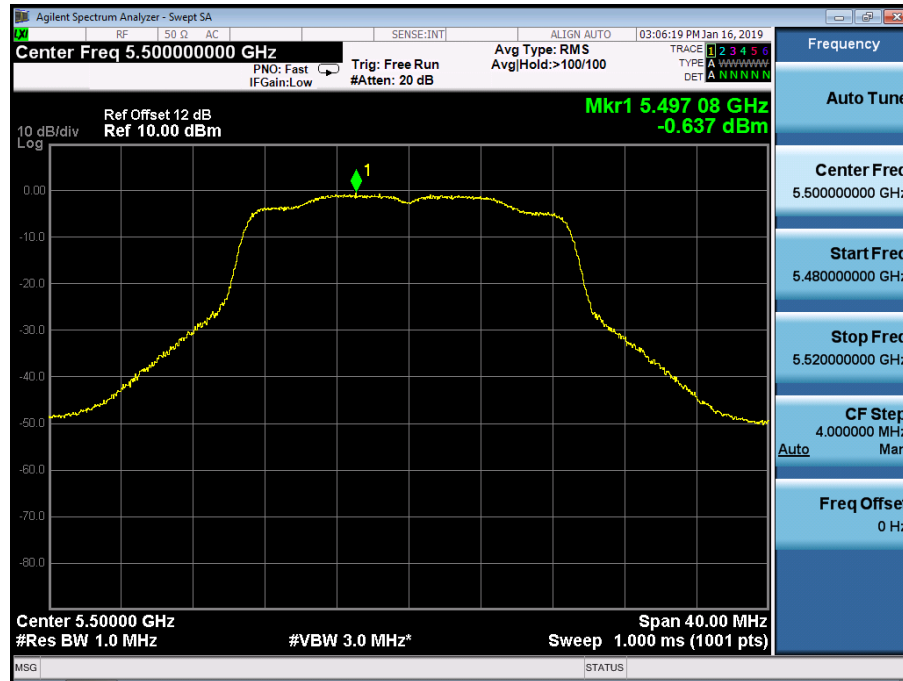
Power Spectral Density UNII Band II-A
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5280



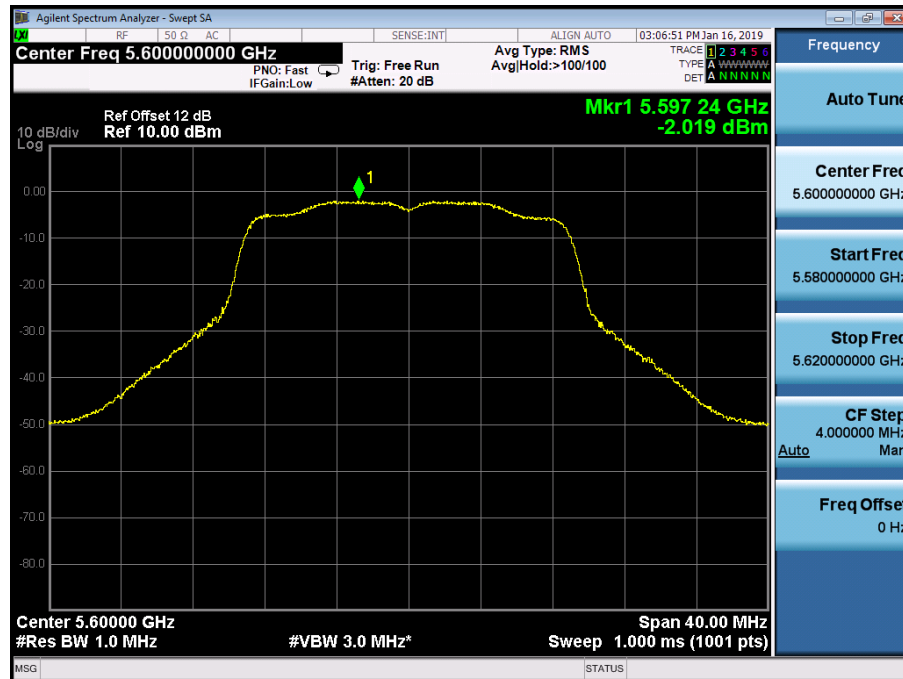
Power Spectral Density	UNII Band II-A
Test Model 802.11ac(VHT20) mode	Frequency(MHz) 5320



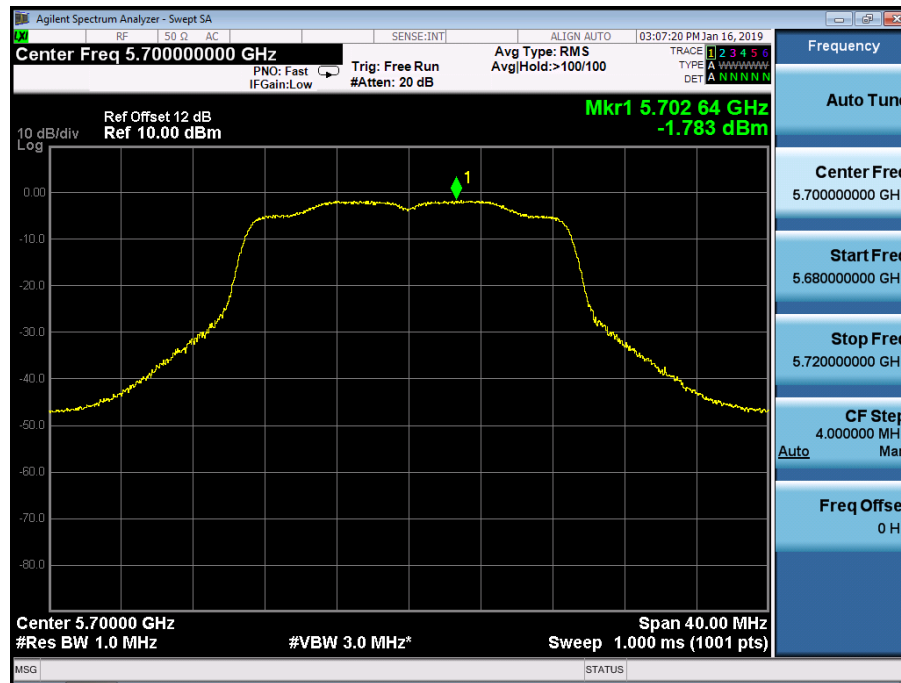
Power Spectral Density UNII Band II-C
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5500



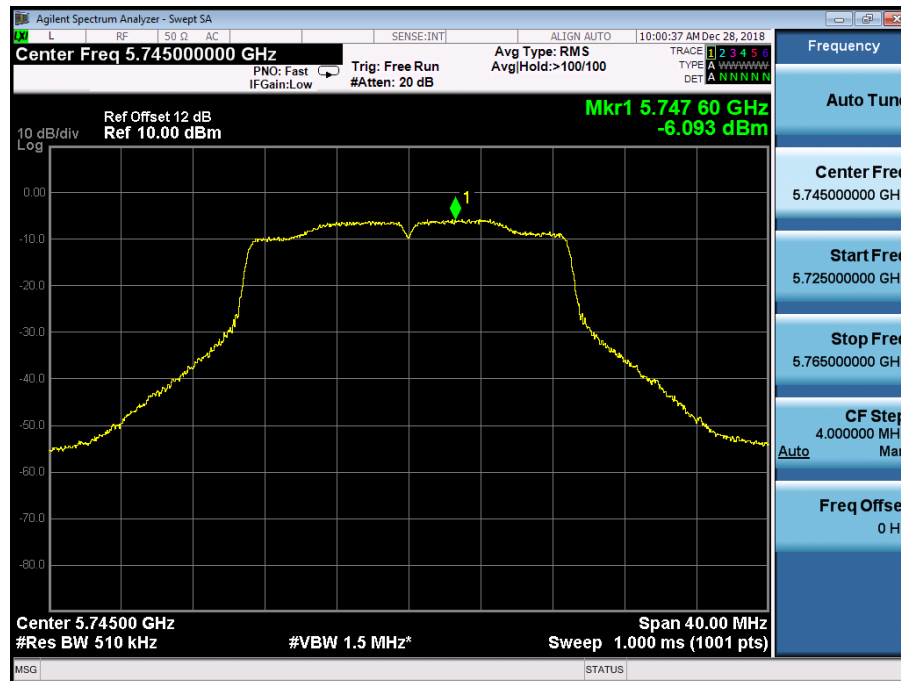
Power Spectral Density UNII Band II-C
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5600



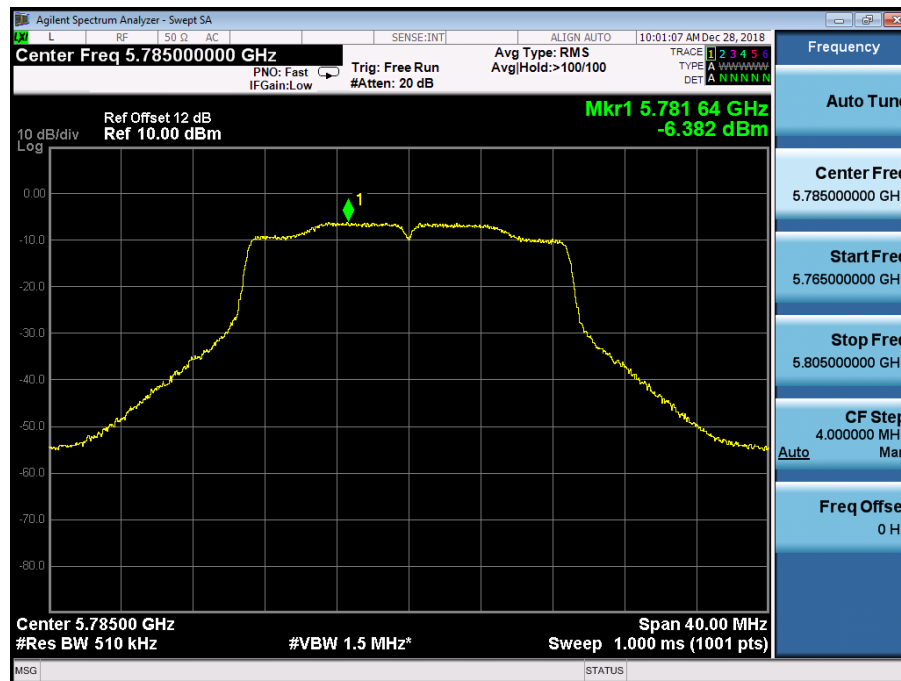
Power Spectral Density UNII Band II-C
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5700



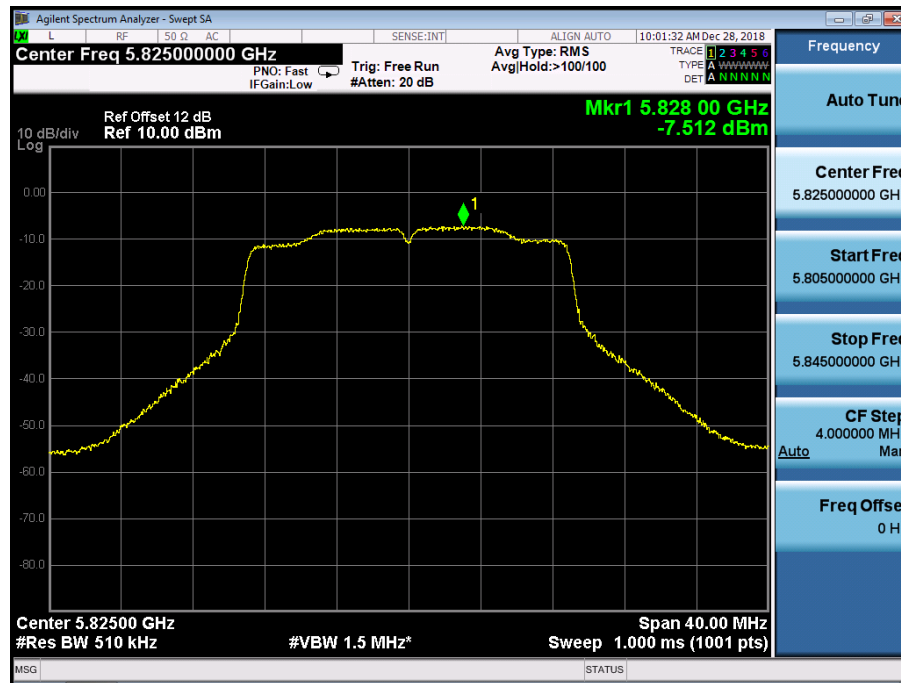
Power Spectral Density UNII Band III
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5745



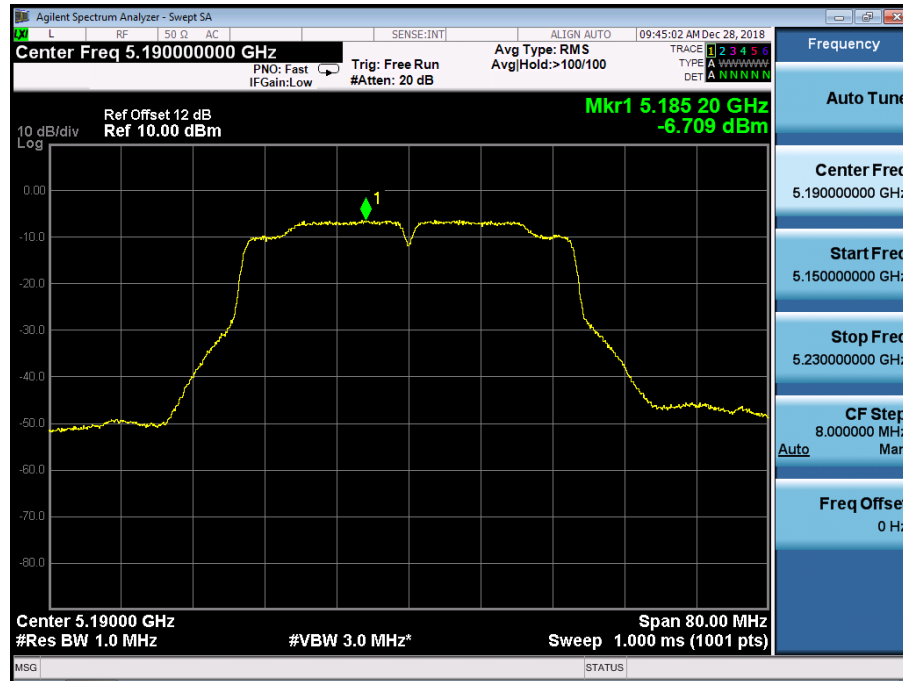
Power Spectral Density UNII Band III
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5785



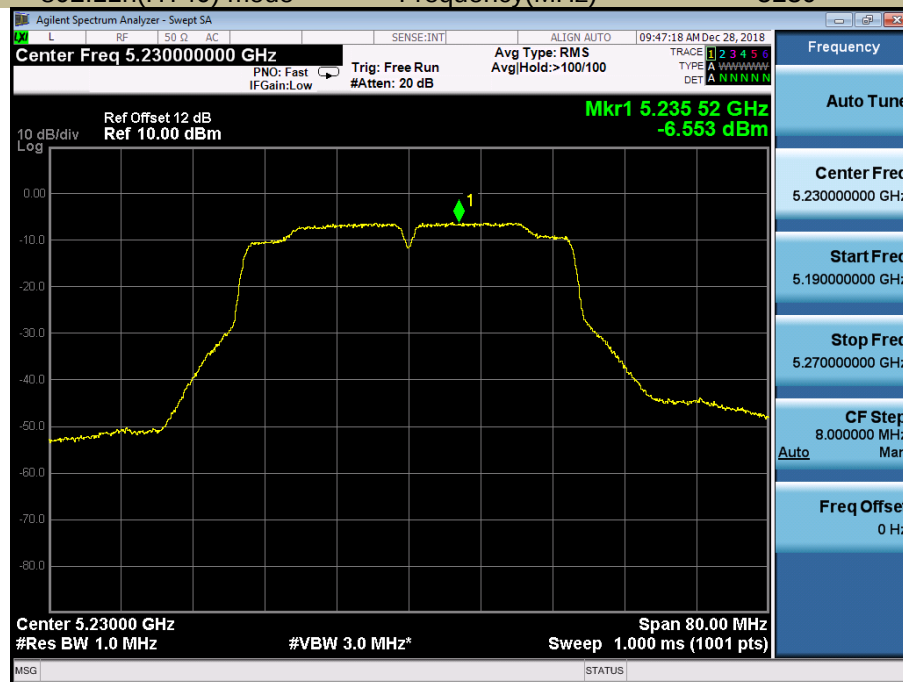
Power Spectral Density	UNII Band III
Test Model 802.11ac(VHT20) mode	Frequency(MHz) 5825



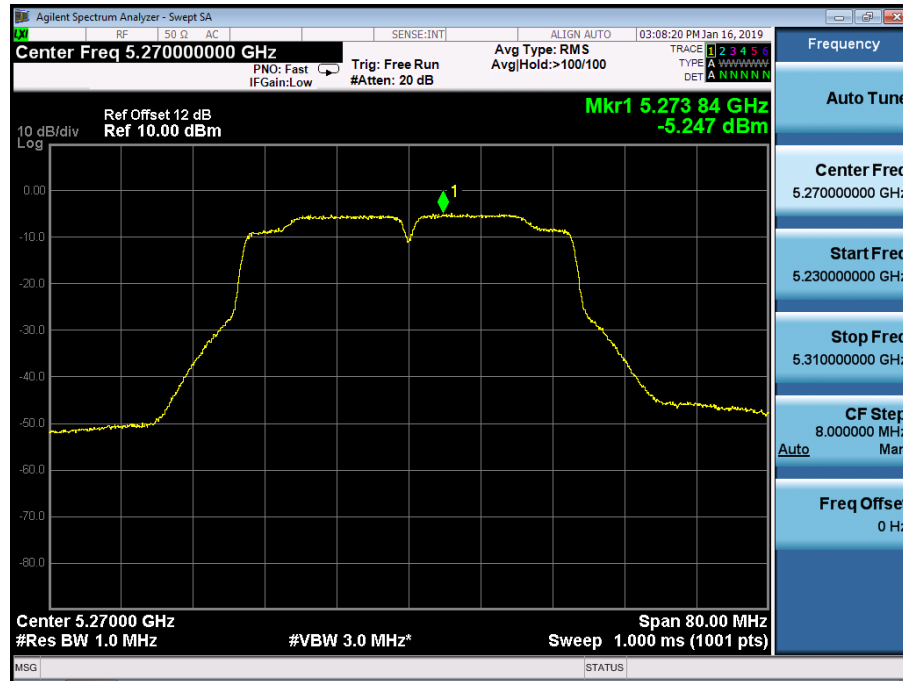
Power Spectral Density UNII Band I
Test Model 802.11n(HT40) mode Frequency(MHz) 5190



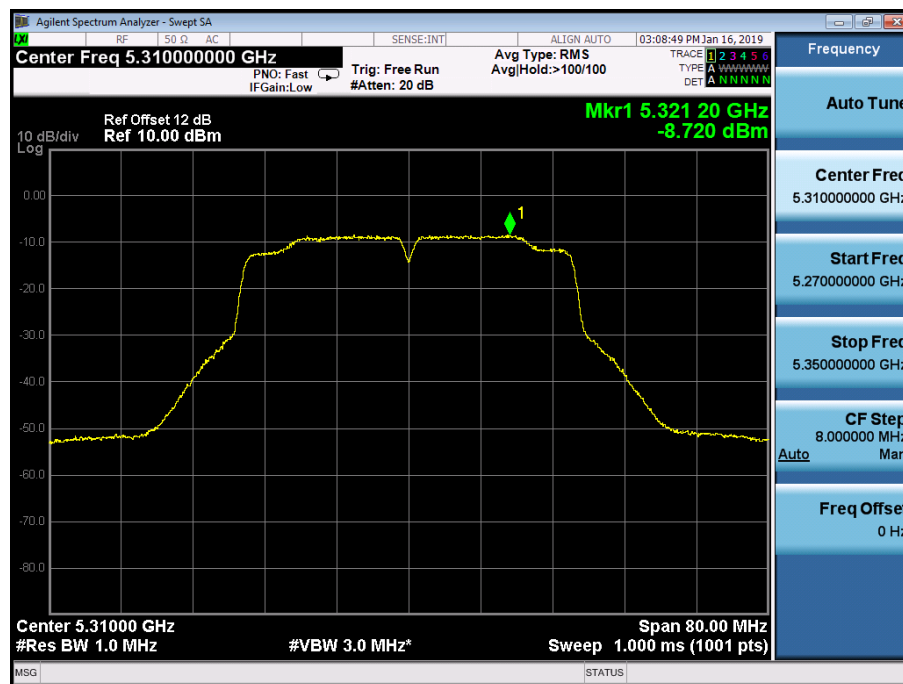
Power Spectral Density UNII Band I
Test Model 802.11n(HT40) mode Frequency(MHz) 5230



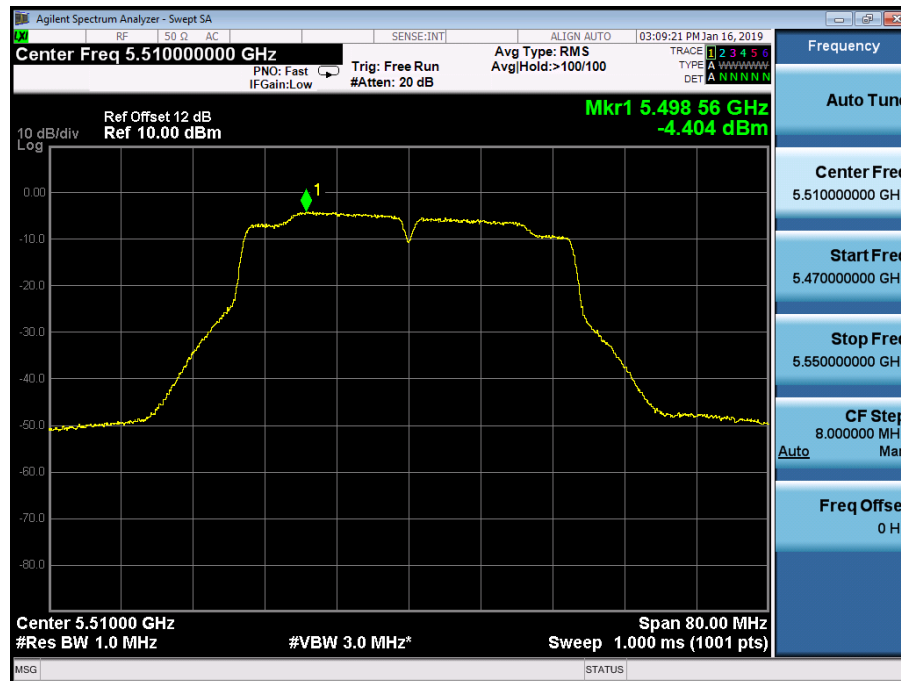
Power Spectral Density UNII Band II-A
Test Model 802.11n(HT40) mode Frequency(MHz) 5270



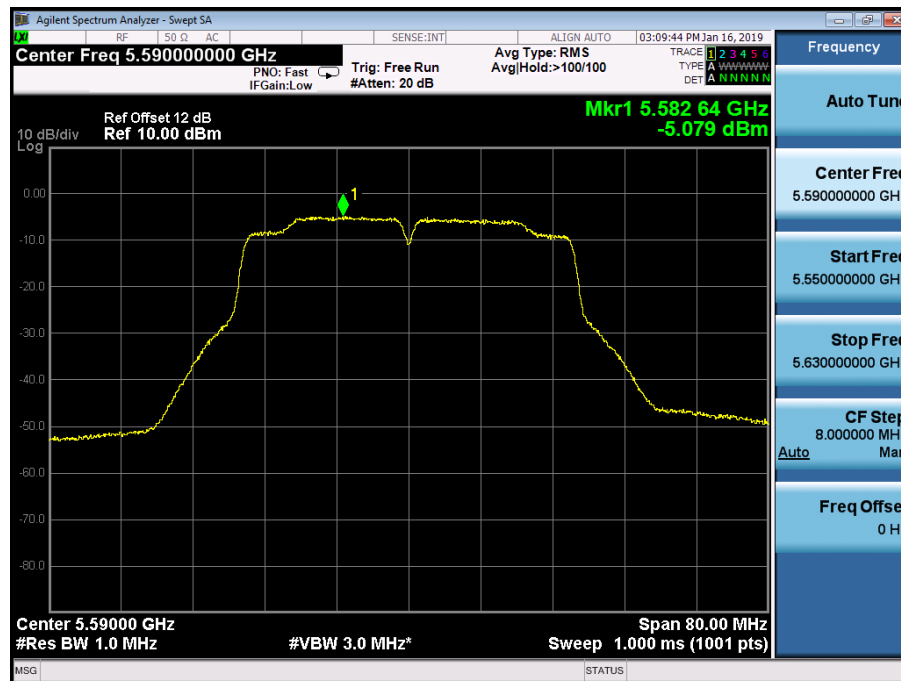
Power Spectral Density UNII Band II-A
Test Model 802.11n(HT40) mode Frequency(MHz) 5310



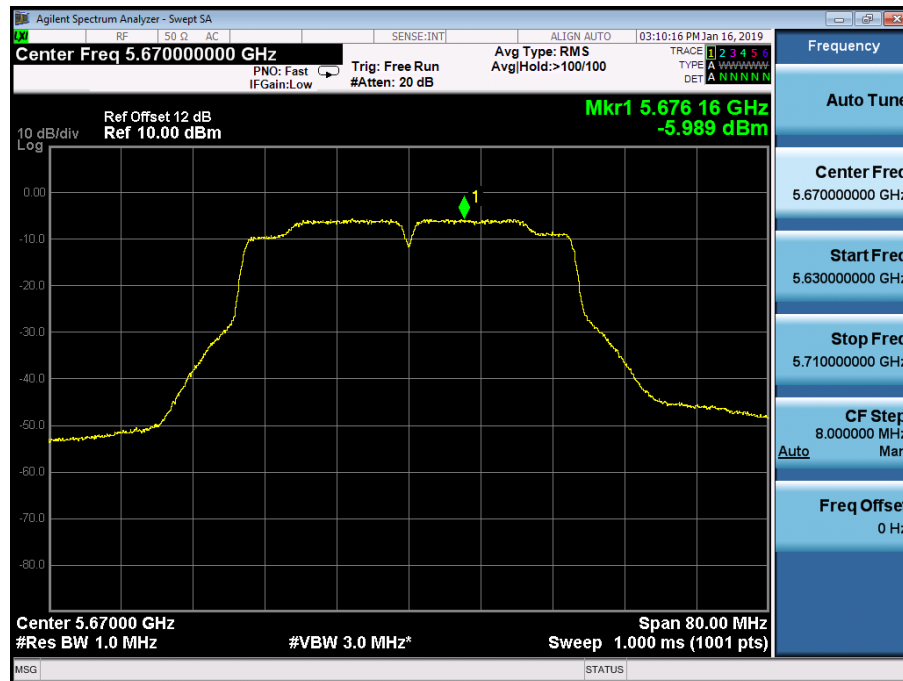
Power Spectral Density	UNII Band II-C	
Test Model 802.11n(HT40) mode	Frequency(MHz)	5510



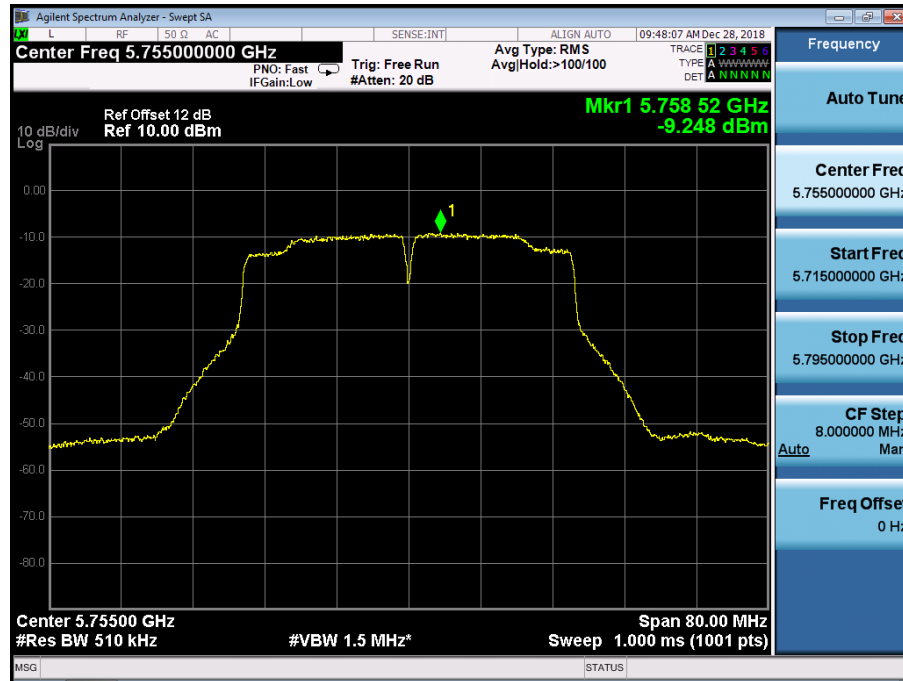
Power Spectral Density	UNII Band II-C	
Test Model 802.11n(HT40) mode	Frequency(MHz)	5590



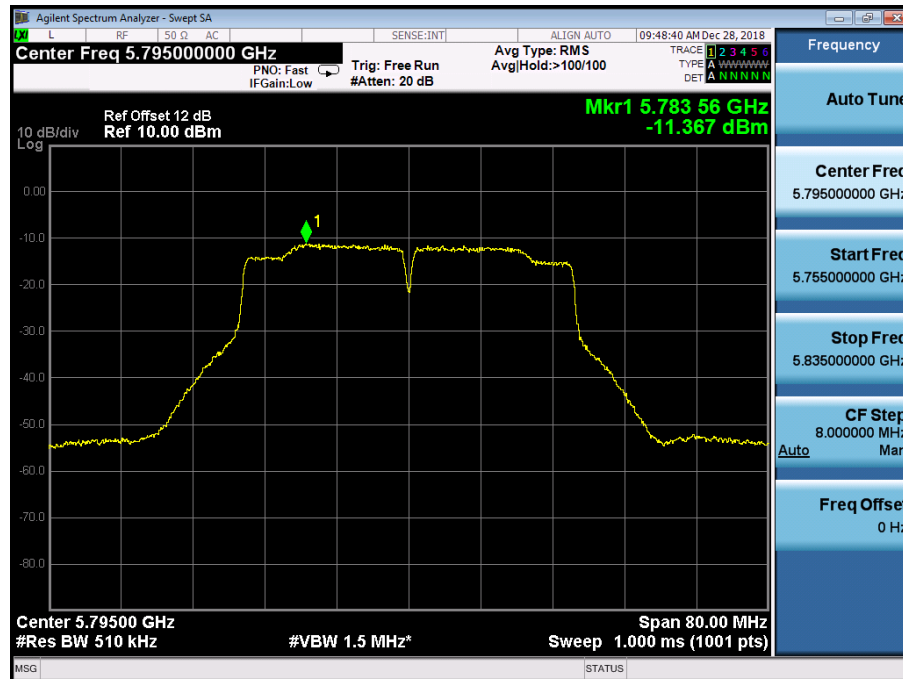
Power Spectral Density	UNII Band II-C
Test Model 802.11n(HT40) mode	Frequency(MHz) 5670



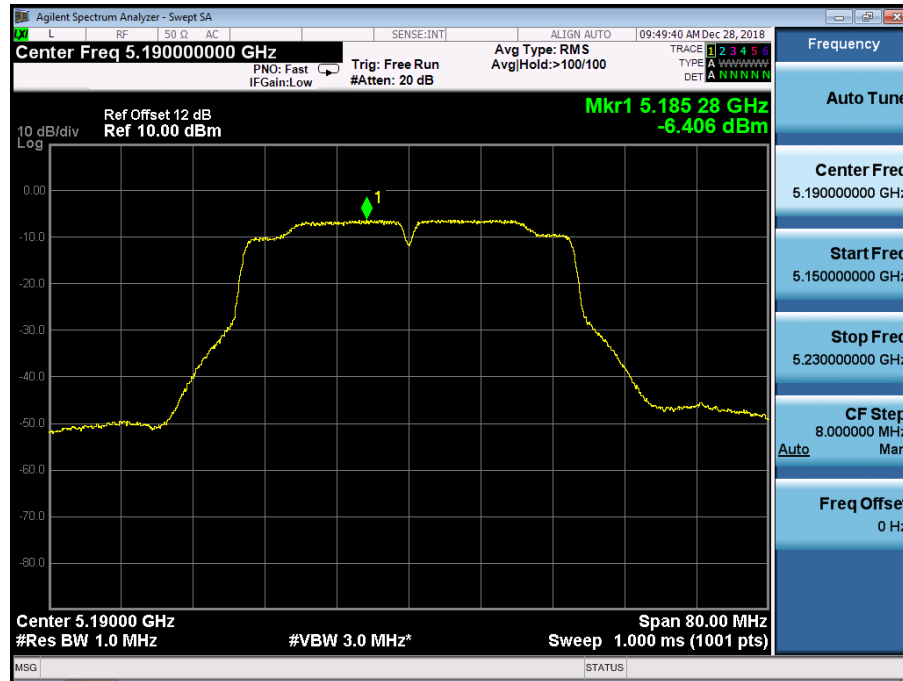
Power Spectral Density	UNII Band III
Test Model 802.11n(HT40) mode	Frequency(MHz) 5755



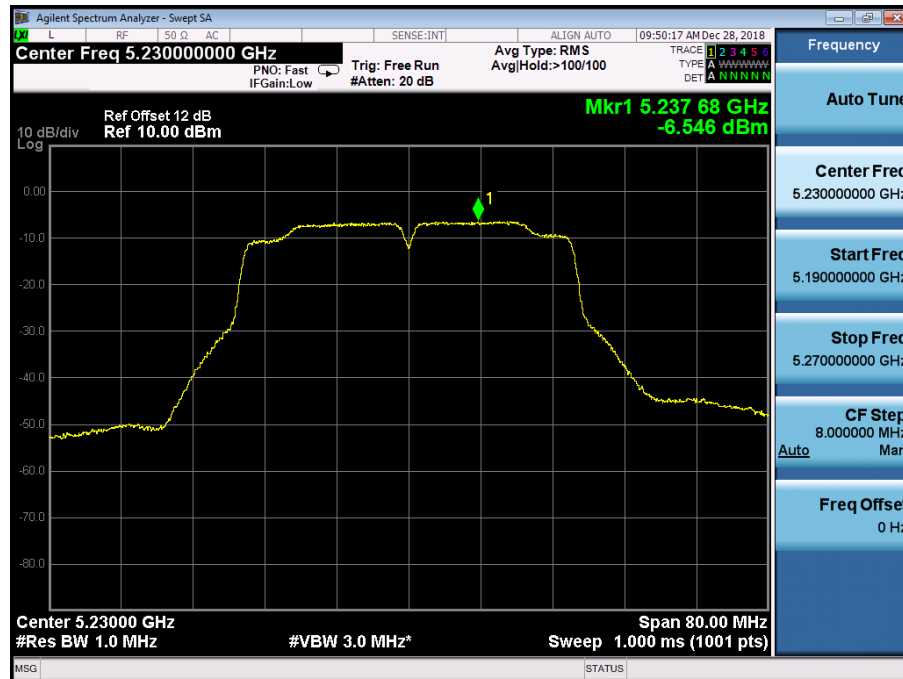
Power Spectral Density	UNII Band III
Test Model 802.11n(HT40) mode	Frequency(MHz) 5795



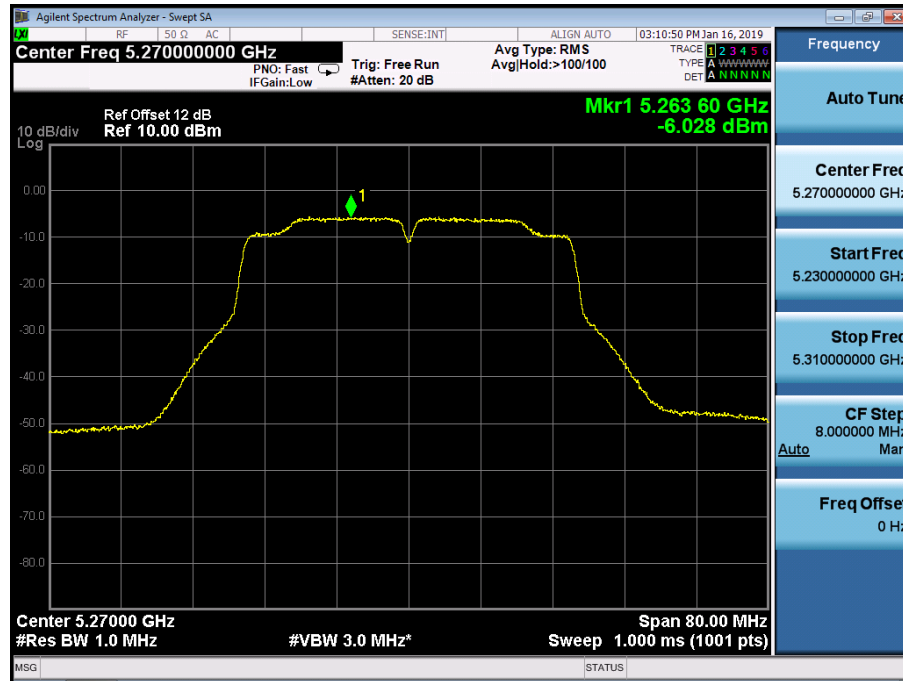
Power Spectral Density UNII Band I
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5190



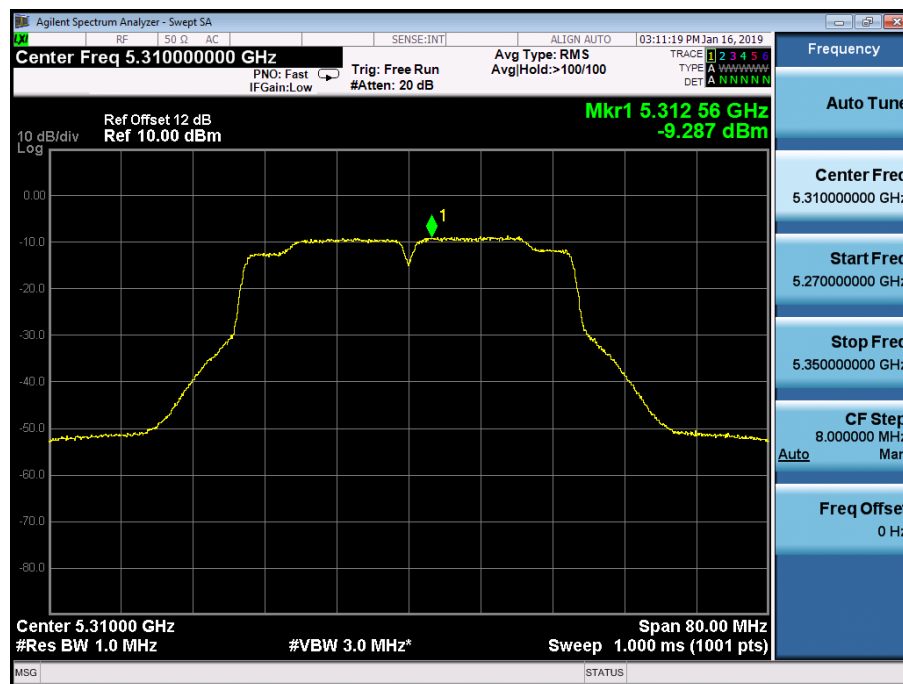
Power Spectral Density UNII Band I
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5230



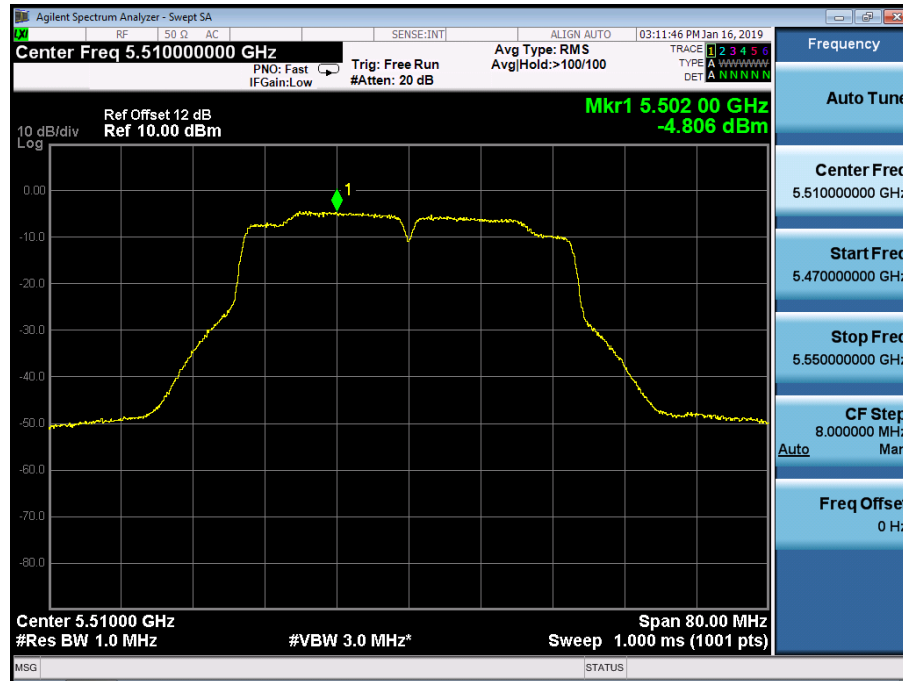
Power Spectral Density UNII Band II-A
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5270



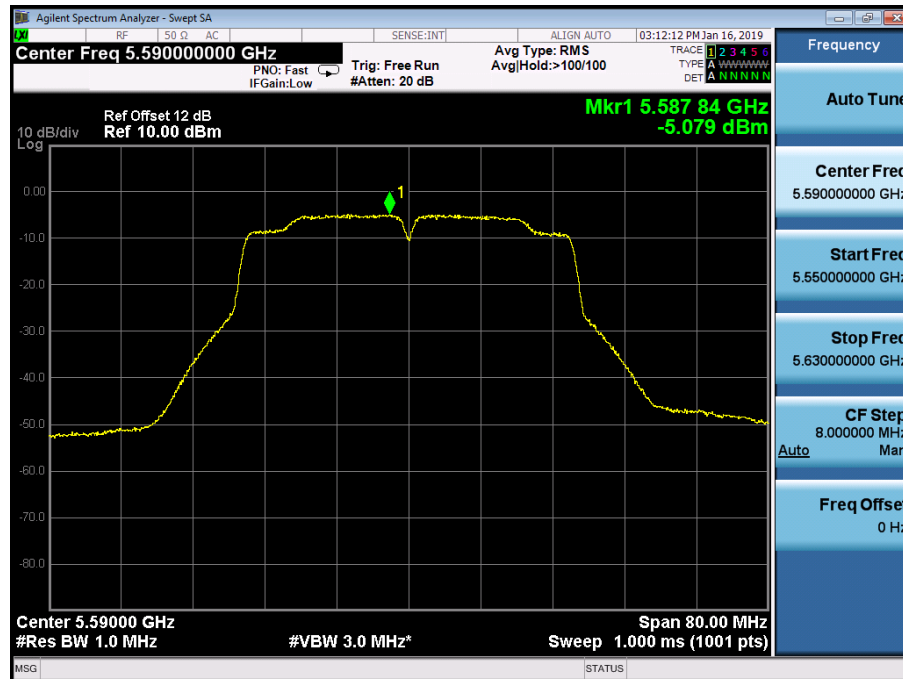
Power Spectral Density UNII Band II-A
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5310



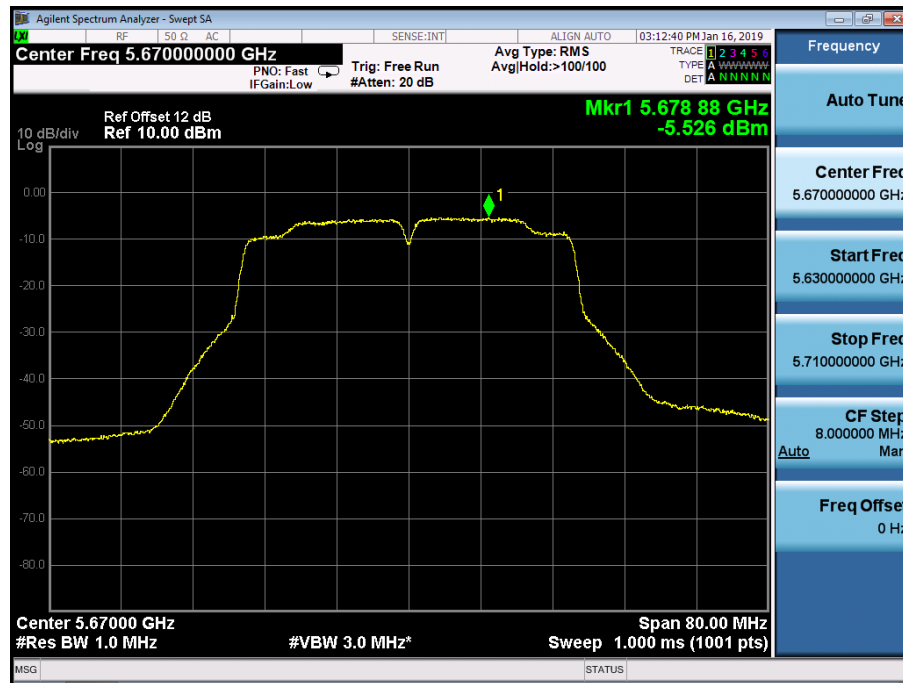
Power Spectral Density UNII Band II-C
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5510



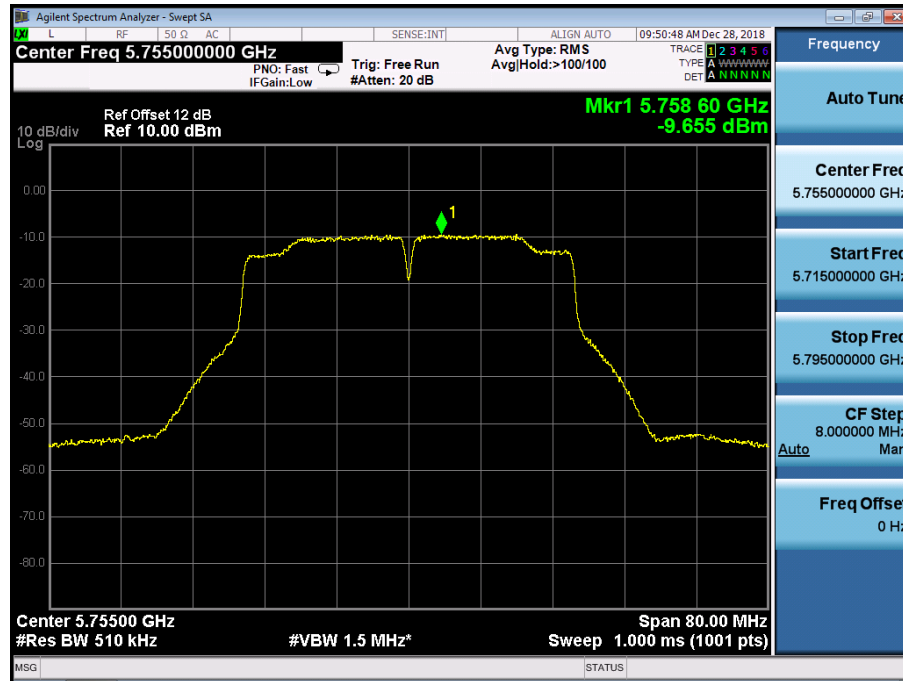
Power Spectral Density UNII Band II-C
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5590



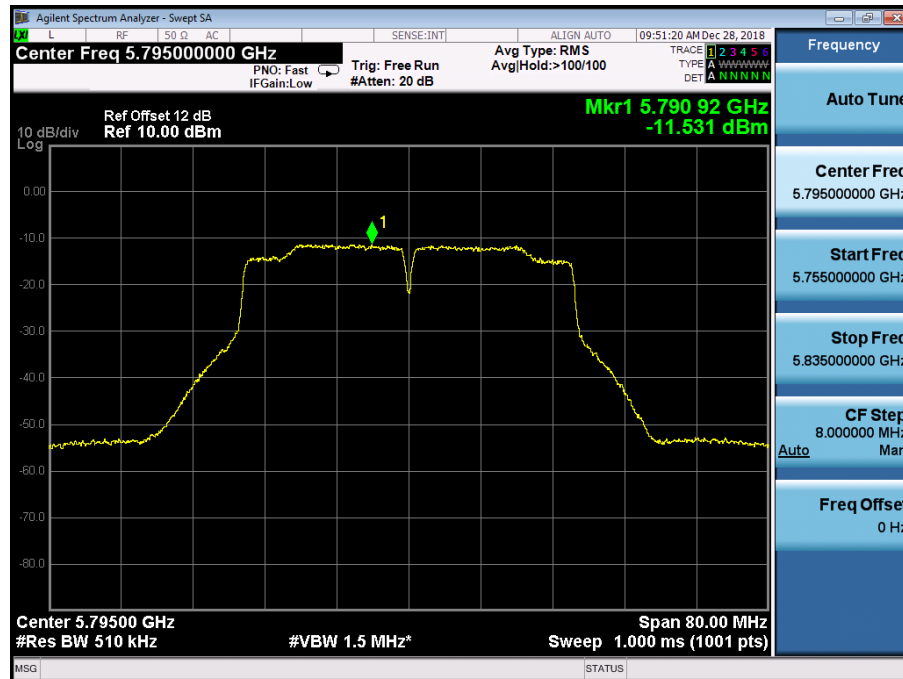
Power Spectral Density	UNII Band II-C
Test Model 802.11ac(VHT40) mode	Frequency(MHz) 5670



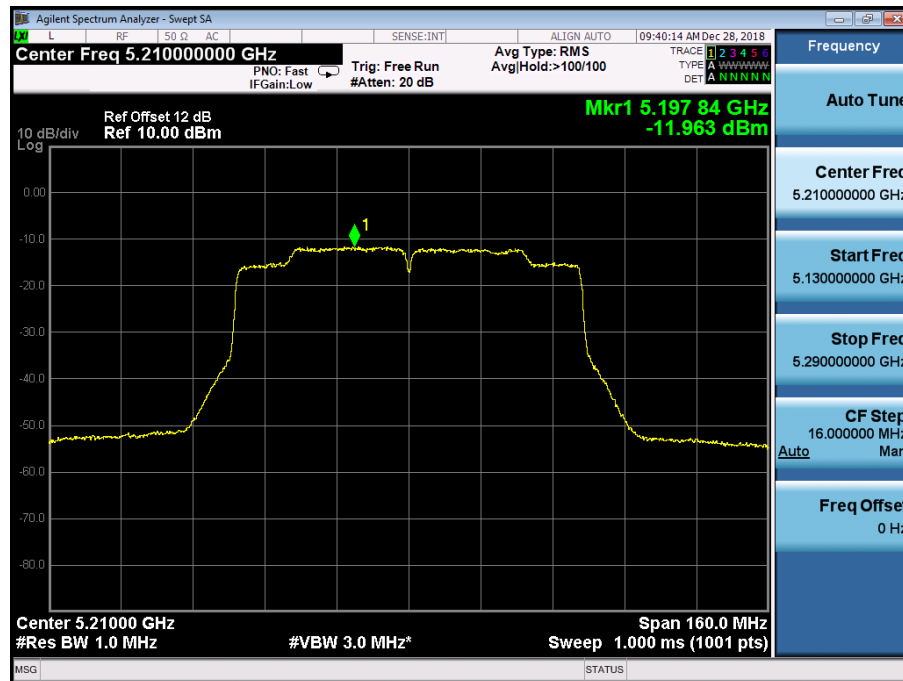
Power Spectral Density UNII Band III
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5755



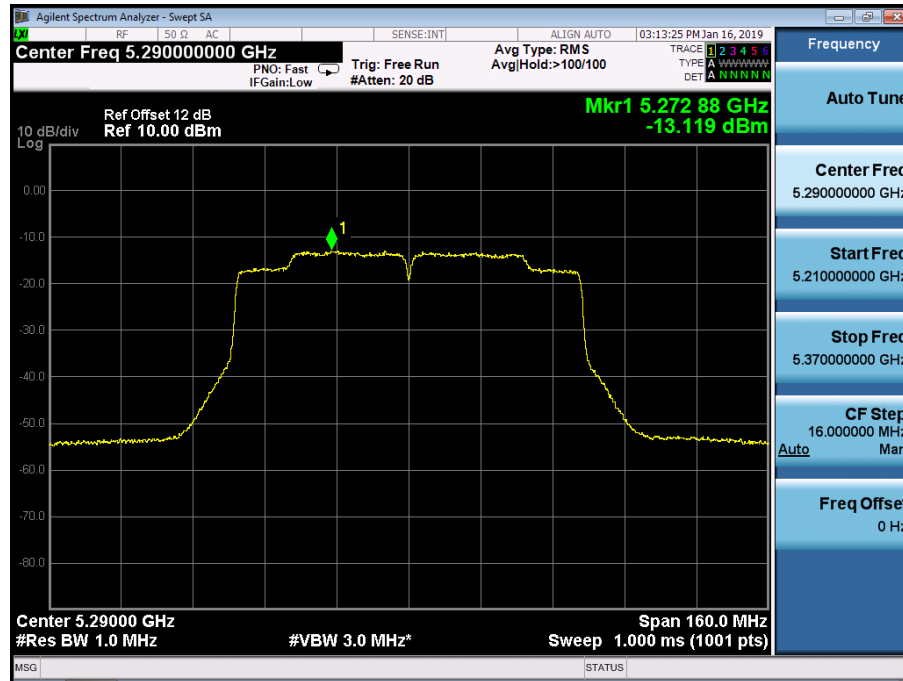
Power Spectral Density UNII Band III
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5795



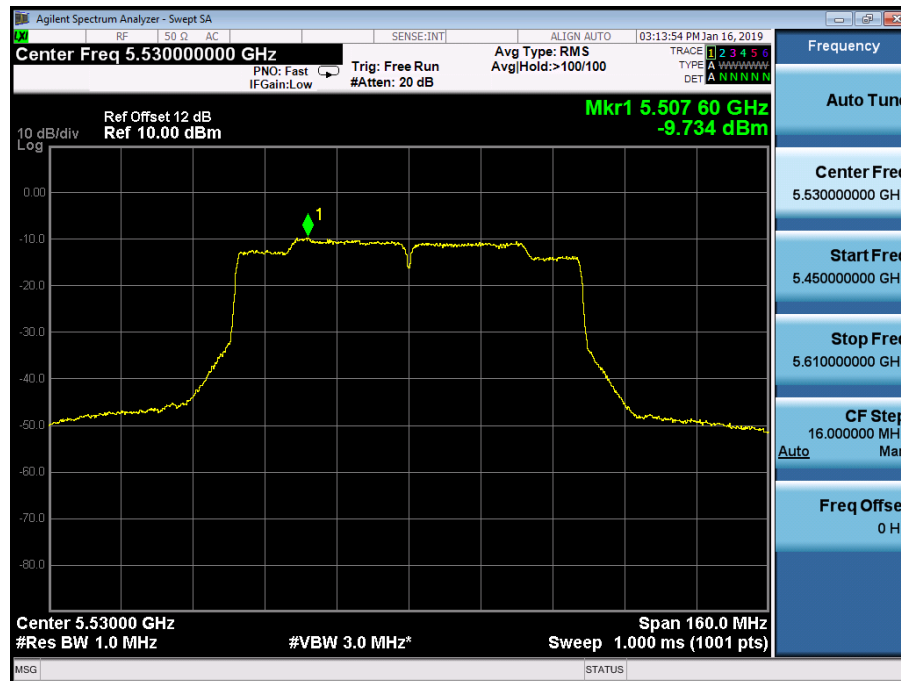
Power Spectral Density	UNII Band I
Test Model 802.11ac(VHT80) mode	Frequency(MHz) 5210



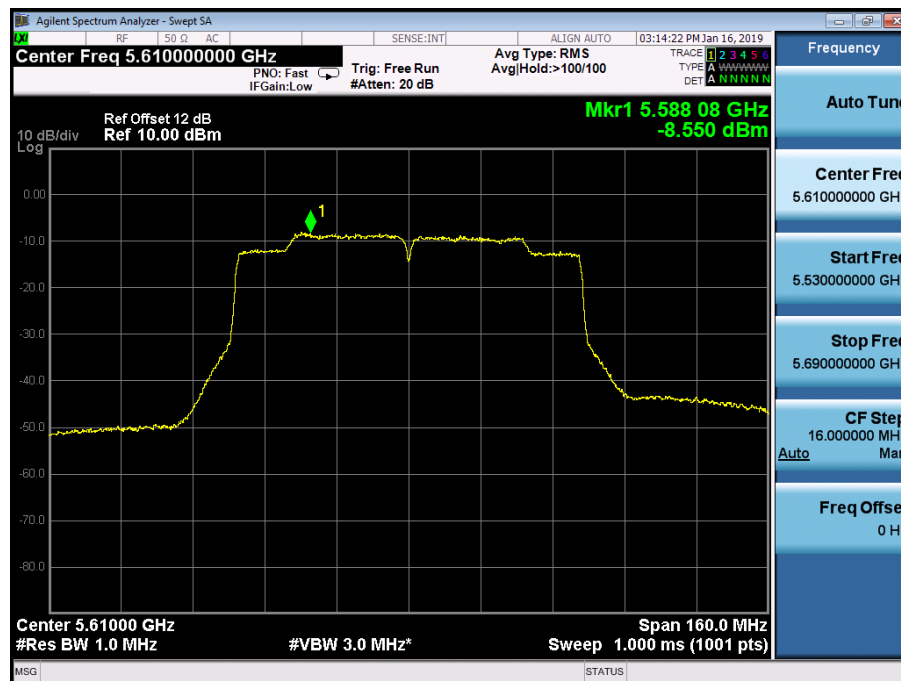
Power Spectral Density	UNII Band II-A	
Test Model 802.11ac(VHT80) mode	Frequency(MHz)	5290



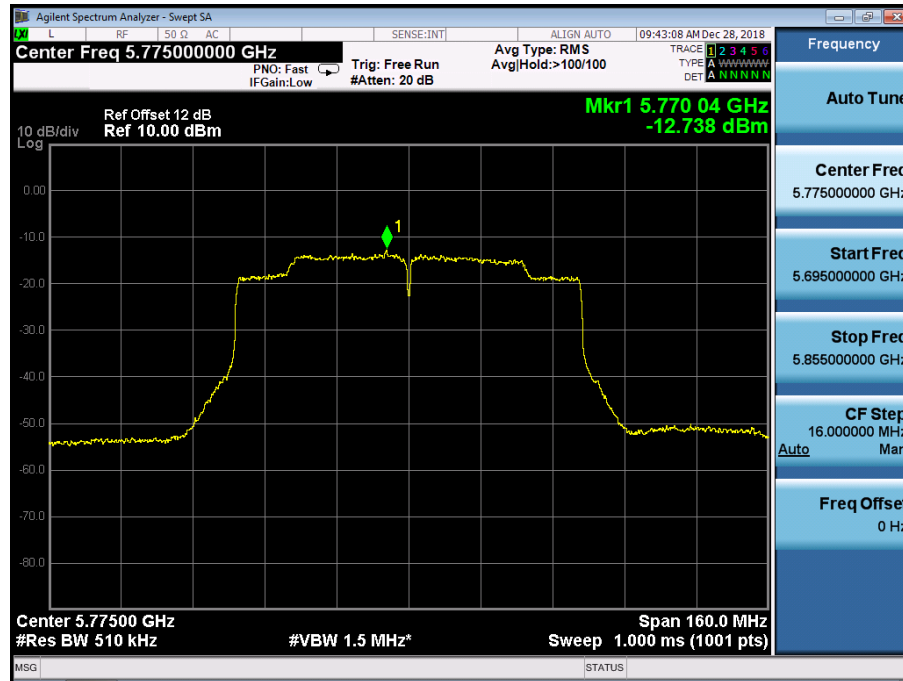
Power Spectral Density UNII Band II-C
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5530



Power Spectral Density UNII Band II-C
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5610



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



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

Antenna 0	5180
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5179.978	-22	Pass
	-10	5179.976	-24	Pass
	0	5179.977	-23	Pass
	10	5179.982	-18	Pass
	20	5179.981	-19	Pass
	30	5179.983	-17	Pass
	40	5179.980	-20	Pass
	50	5179.976	-24	Pass
85% Vnom	20	5179.981	-19	Pass
115% Vnom	20	5179.983	-17	Pass

Antenna 0	5200
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5199.960	-40	Pass
	-10	5199.967	-33	Pass
	0	5199.971	-29	Pass
	10	5199.968	-32	Pass
	20	5199.969	-31	Pass
	30	5199.971	-29	Pass
	40	5199.967	-33	Pass
	50	5199.969	-31	Pass
85% Vnom	20	5199.969	-31	Pass
115% Vnom	20	5199.968	-32	Pass

Antenna 0	5240
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5239.984	-16	Pass
	-10	5239.985	-15	Pass
	0	5239.985	-15	Pass
	10	5239.987	-13	Pass
	20	5239.987	-13	Pass
	30	5239.983	-17	Pass
	40	5239.988	-12	Pass
	50	5239.983	-17	Pass
85% Vnom	20	5239.984	-16	Pass
115% Vnom	20	5239.988	-12	Pass

Antenna 0	5260	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5259.982	-18	Pass
	-10	5259.983	-17	Pass
	0	5259.981	-19	Pass
	10	5259.982	-18	Pass
	20	5259.984	-16	Pass
	30	5259.984	-16	Pass
	40	5259.982	-18	Pass
	50	5259.983	-17	Pass
85% Vnom	20	5259.984	-16	Pass
115% Vnom	20	5259.981	-19	Pass

Antenna 0	5280	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5279.986	-14	Pass
	-10	5279.986	-14	Pass
	0	5279.990	-10	Pass
	10	5279.985	-15	Pass
	20	5279.988	-12	Pass
	30	5279.985	-15	Pass
	40	5279.985	-15	Pass
	50	5279.985	-15	Pass
85% Vnom	20	5279.986	-14	Pass
115% Vnom	20	5279.989	-11	Pass

Antenna 0	5320	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5319.952	-48	Pass
	-10	5319.958	-42	Pass
	0	5319.957	-43	Pass
	10	5319.959	-41	Pass
	20	5319.957	-43	Pass
	30	5319.958	-42	Pass
	40	5319.959	-41	Pass
	50	5319.958	-42	Pass
85% Vnom	20	5319.958	-42	Pass
115% Vnom	20	5319.959	-41	Pass

Antenna 0	5500	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5499.972	-28	Pass
	-10	5499.975	-25	Pass
	0	5499.970	-30	Pass
	10	5499.971	-29	Pass
	20	5499.971	-29	Pass
	30	5499.974	-26	Pass
	40	5499.972	-28	Pass
	50	5499.971	-29	Pass
85% Vnom	20	5499.975	-25	Pass
115% Vnom	20	5499.972	-28	Pass

Antenna 0	5600	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5599.973	-27	Pass
	-10	5599.974	-26	Pass
	0	5599.970	-30	Pass
	10	5599.970	-30	Pass
	20	5599.971	-29	Pass
	30	5599.970	-30	Pass
	40	5599.970	-30	Pass
	50	5599.973	-27	Pass
85% Vnom	20	5599.971	-29	Pass
115% Vnom	20	5599.972	-28	Pass

Antenna 0	5700	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5699.964	-36	Pass
	-10	5699.965	-35	Pass
	0	5699.965	-35	Pass
	10	5699.966	-34	Pass
	20	5699.962	-38	Pass
	30	5699.966	-34	Pass
	40	5699.964	-36	Pass
	50	5699.963	-37	Pass
85% Vnom	20	5699.964	-36	Pass
115% Vnom	20	5699.963	-37	Pass

Antenna 0	5745	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5744.975	-25	Pass
	-10	5744.974	-26	Pass
	0	5744.972	-28	Pass
	10	5744.970	-30	Pass
	20	5744.970	-30	Pass
	30	5744.973	-27	Pass
	40	5744.973	-27	Pass
	50	5744.972	-28	Pass
85% Vnom	20	5744.971	-29	Pass
115% Vnom	20	5744.972	-28	Pass

Antenna 0	5785	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5784.976	-24	Pass
	-10	5784.978	-22	Pass
	0	5784.977	-23	Pass
	10	5784.975	-25	Pass
	20	5784.976	-24	Pass
	30	5784.975	-25	Pass
	40	5784.977	-23	Pass
	50	5784.979	-21	Pass
85% Vnom	20	5784.978	-22	Pass
115% Vnom	20	5784.976	-24	Pass

Antenna 0	5825	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5824.972	-28	Pass
	-10	5824.970	-30	Pass
	0	5824.968	-32	Pass
	10	5824.972	-28	Pass
	20	5824.969	-31	Pass
	30	5824.968	-32	Pass
	40	5824.971	-29	Pass
	50	5824.970	-30	Pass
85% Vnom	20	5824.967	-33	Pass
115% Vnom	20	5824.971	-29	Pass

Antenna 0	5190
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5189.965	-35	Pass
	-10	5189.963	-37	Pass
	0	5189.964	-36	Pass
	10	5189.965	-35	Pass
	20	5189.964	-36	Pass
	30	5189.962	-38	Pass
	40	5189.962	-38	Pass
	50	5189.964	-36	Pass
85% Vnom	20	5189.961	-39	Pass
115% Vnom	20	5189.964	-36	Pass

Antenna 0	5230
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5229.961	-39	Pass
	-10	5229.958	-42	Pass
	0	5229.959	-41	Pass
	10	5229.959	-41	Pass
	20	5229.958	-42	Pass
	30	5229.959	-41	Pass
	40	5229.959	-41	Pass
	50	5229.959	-41	Pass
85% Vnom	20	5229.961	-39	Pass
115% Vnom	20	5229.961	-39	Pass

Antenna 0	5270
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5269.957	-43	Pass
	-10	5269.962	-38	Pass
	0	5269.959	-41	Pass
	10	5269.957	-43	Pass
	20	5269.959	-41	Pass
	30	5269.960	-40	Pass
	40	5269.961	-39	Pass
	50	5269.961	-39	Pass
85% Vnom	20	5269.959	-41	Pass
115% Vnom	20	5269.958	-42	Pass

Antenna 0	5310
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5309.968	-32	Pass
	-10	5309.971	-29	Pass
	0	5309.969	-31	Pass
	10	5309.970	-30	Pass
	20	5309.971	-29	Pass
	30	5309.970	-30	Pass
	40	5309.971	-29	Pass
	50	5309.972	-28	Pass
85% Vnom	20	5309.970	-30	Pass
115% Vnom	20	5309.970	-30	Pass

Antenna 0	5510	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5509.970	-30	Pass
	-10	5509.966	-34	Pass
	0	5509.967	-33	Pass
	10	5509.968	-32	Pass
	20	5509.968	-32	Pass
	30	5509.966	-34	Pass
	40	5509.969	-31	Pass
	50	5509.971	-29	Pass
85% Vnom	20	5509.967	-33	Pass
115% Vnom	20	5509.969	-31	Pass

Antenna 0	5590	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5589.968	-32	Pass
	-10	5589.968	-32	Pass
	0	5589.969	-31	Pass
	10	5589.970	-30	Pass
	20	5589.968	-32	Pass
	30	5589.969	-31	Pass
	40	5589.969	-31	Pass
	50	5589.971	-29	Pass
85% Vnom	20	5589.971	-29	Pass
115% Vnom	20	5589.970	-30	Pass

Antenna 0	5670	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5669.966	-34	Pass
	-10	5669.968	-32	Pass
	0	5669.970	-30	Pass
	10	5669.969	-31	Pass
	20	5669.968	-32	Pass
	30	5669.969	-31	Pass
	40	5669.968	-32	Pass
	50	5669.970	-30	Pass
85% Vnom	20	5669.970	-30	Pass
115% Vnom	20	5669.971	-29	Pass

Antenna 0	5755
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5754.984	-16	Pass
	-10	5754.983	-17	Pass
	0	5754.983	-17	Pass
	10	5754.980	-20	Pass
	20	5754.984	-16	Pass
	30	5754.984	-16	Pass
	40	5754.983	-17	Pass
	50	5754.981	-19	Pass
85% Vnom	20	5754.983	-17	Pass
115% Vnom	20	5754.983	-17	Pass

Antenna 0	5795
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5794.973	-27	Pass
	-10	5794.973	-27	Pass
	0	5794.973	-27	Pass
	10	5794.973	-27	Pass
	20	5794.975	-25	Pass
	30	5794.972	-28	Pass
	40	5794.971	-29	Pass
	50	5794.972	-28	Pass
85% Vnom	20	5794.971	-29	Pass
115% Vnom	20	5794.974	-26	Pass

Antenna 0	5210
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5209.969	-31	Pass
	-10	5209.968	-32	Pass
	0	5209.966	-34	Pass
	10	5209.967	-33	Pass
	20	5209.966	-34	Pass
	30	5209.969	-31	Pass
	40	5209.965	-35	Pass
	50	5209.966	-34	Pass
85% Vnom	20	5209.964	-36	Pass
115% Vnom	20	5209.969	-31	Pass

Antenna 0	5290
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5289.968	-32	Pass
	-10	5289.967	-33	Pass
	0	5289.965	-35	Pass
	10	5289.969	-31	Pass
	20	5289.968	-32	Pass
	30	5289.968	-32	Pass
	40	5289.968	-32	Pass
	50	5289.966	-34	Pass
85% Vnom	20	5289.969	-31	Pass
115% Vnom	20	5289.968	-32	Pass

Antenna 0	5530	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5529.955	-45	Pass
	-10	5529.955	-45	Pass
	0	5529.957	-43	Pass
	10	5529.957	-43	Pass
	20	5529.958	-42	Pass
	30	5529.955	-45	Pass
	40	5529.958	-42	Pass
	50	5529.957	-43	Pass
85% Vnom	20	5529.960	-40	Pass
115% Vnom	20	5529.956	-44	Pass

Antenna 0	5610	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5609.969	-31	Pass
	-10	5609.965	-35	Pass
	0	5609.965	-35	Pass
	10	5609.968	-32	Pass
	20	5609.969	-31	Pass
	30	5609.968	-32	Pass
	40	5609.968	-32	Pass
	50	5609.969	-31	Pass
85% Vnom	20	5609.969	-31	Pass
115% Vnom	20	5609.967	-33	Pass

Antenna 0	5775	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5774.977	-23	Pass
	-10	5774.978	-22	Pass
	0	5774.980	-20	Pass
	10	5774.977	-23	Pass
	20	5774.976	-24	Pass
	30	5774.979	-21	Pass
	40	5774.979	-21	Pass
	50	5774.978	-22	Pass
85% Vnom	20	5774.981	-19	Pass
115% Vnom	20	5774.980	-20	Pass

Antenna 1	5180
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5179.978	-22	Pass
	-10	5179.976	-24	Pass
	0	5179.977	-23	Pass
	10	5179.982	-18	Pass
	20	5179.981	-19	Pass
	30	5179.983	-17	Pass
	40	5179.980	-20	Pass
	50	5179.976	-24	Pass
85% Vnom	20	5179.981	-19	Pass
115% Vnom	20	5179.983	-17	Pass

Antenna 1	5200
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5199.960	-40	Pass
	-10	5199.967	-33	Pass
	0	5199.971	-29	Pass
	10	5199.968	-32	Pass
	20	5199.969	-31	Pass
	30	5199.971	-29	Pass
	40	5199.967	-33	Pass
	50	5199.969	-31	Pass
85% Vnom	20	5199.969	-31	Pass
115% Vnom	20	5199.968	-32	Pass

Antenna 1	5240
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5239.984	-16	Pass
	-10	5239.985	-15	Pass
	0	5239.985	-15	Pass
	10	5239.987	-13	Pass
	20	5239.987	-13	Pass
	30	5239.983	-17	Pass
	40	5239.988	-12	Pass
	50	5239.983	-17	Pass
85% Vnom	20	5239.984	-16	Pass
115% Vnom	20	5239.988	-12	Pass

Antenna 1	5260	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5259.981	-19	Pass
	-10	5259.981	-19	Pass
	0	5259.982	-18	Pass
	10	5259.980	-20	Pass
	20	5259.980	-20	Pass
	30	5259.982	-18	Pass
	40	5259.983	-17	Pass
	50	5259.983	-17	Pass
85% Vnom	20	5259.981	-19	Pass
115% Vnom	20	5259.981	-19	Pass

Antenna 1	5280	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5279.986	-14	Pass
	-10	5279.989	-11	Pass
	0	5279.985	-15	Pass
	10	5279.989	-11	Pass
	20	5279.990	-10	Pass
	30	5279.989	-11	Pass
	40	5279.987	-13	Pass
	50	5279.989	-11	Pass
85% Vnom	20	5279.986	-14	Pass
115% Vnom	20	5279.985	-15	Pass

Antenna 1	5320	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5319.954	-46	Pass
	-10	5319.959	-41	Pass
	0	5319.959	-41	Pass
	10	5319.957	-43	Pass
	20	5319.960	-40	Pass
	30	5319.959	-41	Pass
	40	5319.959	-41	Pass
	50	5319.959	-41	Pass
85% Vnom	20	5319.958	-42	Pass
115% Vnom	20	5319.958	-42	Pass

Antenna 1	5500	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5499.973	-27	Pass
	-10	5499.970	-30	Pass
	0	5499.974	-26	Pass
	10	5499.970	-30	Pass
	20	5499.972	-28	Pass
	30	5499.972	-28	Pass
	40	5499.973	-27	Pass
	50	5499.971	-29	Pass
85% Vnom	20	5499.971	-29	Pass
115% Vnom	20	5499.973	-27	Pass

Antenna 1	5600	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5599.971	-29	Pass
	-10	5599.973	-27	Pass
	0	5599.972	-28	Pass
	10	5599.974	-26	Pass
	20	5599.970	-30	Pass
	30	5599.973	-27	Pass
	40	5599.972	-28	Pass
	50	5599.972	-28	Pass
85% Vnom	20	5599.974	-26	Pass
115% Vnom	20	5599.973	-27	Pass

Antenna 1	5700	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5699.963	-37	Pass
	-10	5699.963	-37	Pass
	0	5699.962	-38	Pass
	10	5699.964	-36	Pass
	20	5699.964	-36	Pass
	30	5699.965	-35	Pass
	40	5699.962	-38	Pass
	50	5699.963	-37	Pass
85% Vnom	20	5699.961	-39	Pass
115% Vnom	20	5699.964	-36	Pass

Antenna 1	5745
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5744.975	-25	Pass
	-10	5744.974	-26	Pass
	0	5744.972	-28	Pass
	10	5744.970	-30	Pass
	20	5744.970	-30	Pass
	30	5744.973	-27	Pass
	40	5744.973	-27	Pass
	50	5744.972	-28	Pass
85% Vnom	20	5744.971	-29	Pass
115% Vnom	20	5744.972	-28	Pass

Antenna 1	5785
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5784.976	-24	Pass
	-10	5784.978	-22	Pass
	0	5784.977	-23	Pass
	10	5784.975	-25	Pass
	20	5784.976	-24	Pass
	30	5784.975	-25	Pass
	40	5784.977	-23	Pass
	50	5784.979	-21	Pass
85% Vnom	20	5784.978	-22	Pass
115% Vnom	20	5784.976	-24	Pass

Antenna 1	5825
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5824.972	-28	Pass
	-10	5824.970	-30	Pass
	0	5824.968	-32	Pass
	10	5824.972	-28	Pass
	20	5824.969	-31	Pass
	30	5824.968	-32	Pass
	40	5824.971	-29	Pass
	50	5824.970	-30	Pass
85% Vnom	20	5824.967	-33	Pass
115% Vnom	20	5824.971	-29	Pass

Antenna 1	5190
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5189.965	-35	Pass
	-10	5189.963	-37	Pass
	0	5189.964	-36	Pass
	10	5189.965	-35	Pass
	20	5189.964	-36	Pass
	30	5189.962	-38	Pass
	40	5189.962	-38	Pass
	50	5189.964	-36	Pass
85% Vnom	20	5189.961	-39	Pass
115% Vnom	20	5189.964	-36	Pass

Antenna 1	5230
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5229.961	-39	Pass
	-10	5229.958	-42	Pass
	0	5229.959	-41	Pass
	10	5229.959	-41	Pass
	20	5229.958	-42	Pass
	30	5229.959	-41	Pass
	40	5229.959	-41	Pass
	50	5229.959	-41	Pass
85% Vnom	20	5229.961	-39	Pass
115% Vnom	20	5229.961	-39	Pass

Antenna 1	5270
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5269.961	-39	Pass
	-10	5269.962	-38	Pass
	0	5269.958	-42	Pass
	10	5269.958	-42	Pass
	20	5269.958	-42	Pass
	30	5269.957	-43	Pass
	40	5269.958	-42	Pass
	50	5269.962	-38	Pass
85% Vnom	20	5269.961	-39	Pass
115% Vnom	20	5269.957	-43	Pass

Antenna 1	5310
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5309.969	-31	Pass
	-10	5309.969	-31	Pass
	0	5309.970	-30	Pass
	10	5309.967	-33	Pass
	20	5309.968	-32	Pass
	30	5309.970	-30	Pass
	40	5309.968	-32	Pass
	50	5309.971	-29	Pass
85% Vnom	20	5309.971	-29	Pass
115% Vnom	20	5309.972	-28	Pass

Antenna 1	5510	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5509.968	-32	Pass
	-10	5509.968	-32	Pass
	0	5509.968	-32	Pass
	10	5509.967	-33	Pass
	20	5509.971	-29	Pass
	30	5509.967	-33	Pass
	40	5509.970	-30	Pass
	50	5509.968	-32	Pass
85% Vnom	20	5509.968	-32	Pass
115% Vnom	20	5509.969	-31	Pass

Antenna 1	5590	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5589.971	-29	Pass
	-10	5589.969	-31	Pass
	0	5589.970	-30	Pass
	10	5589.966	-34	Pass
	20	5589.967	-33	Pass
	30	5589.969	-31	Pass
	40	5589.967	-33	Pass
	50	5589.968	-32	Pass
85% Vnom	20	5589.970	-30	Pass
115% Vnom	20	5589.968	-32	Pass

Antenna 1	5670	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5669.969	-31	Pass
	-10	5669.967	-33	Pass
	0	5669.967	-33	Pass
	10	5669.966	-34	Pass
	20	5669.970	-30	Pass
	30	5669.967	-33	Pass
	40	5669.969	-31	Pass
	50	5669.970	-30	Pass
85% Vnom	20	5669.970	-30	Pass
115% Vnom	20	5669.968	-32	Pass

Antenna 1	5755
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5754.984	-16	Pass
	-10	5754.983	-17	Pass
	0	5754.983	-17	Pass
	10	5754.980	-20	Pass
	20	5754.984	-16	Pass
	30	5754.984	-16	Pass
	40	5754.983	-17	Pass
	50	5754.981	-19	Pass
85% Vnom	20	5754.983	-17	Pass
115% Vnom	20	5754.983	-17	Pass

Antenna 1	5795
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5794.973	-27	Pass
	-10	5794.973	-27	Pass
	0	5794.973	-27	Pass
	10	5794.973	-27	Pass
	20	5794.975	-25	Pass
	30	5794.972	-28	Pass
	40	5794.971	-29	Pass
	50	5794.972	-28	Pass
85% Vnom	20	5794.971	-29	Pass
115% Vnom	20	5794.974	-26	Pass

Antenna 1	5210
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5209.969	-31	Pass
	-10	5209.968	-32	Pass
	0	5209.966	-34	Pass
	10	5209.967	-33	Pass
	20	5209.966	-34	Pass
	30	5209.969	-31	Pass
	40	5209.965	-35	Pass
	50	5209.966	-34	Pass
85% Vnom	20	5209.964	-36	Pass
115% Vnom	20	5209.969	-31	Pass

Antenna 1	5290
Temperature : --	Test By: King Kong
Humidity : 65 %	

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5289.967	-33	Pass
	-10	5289.969	-31	Pass
	0	5289.969	-31	Pass
	10	5289.969	-31	Pass
	20	5289.966	-34	Pass
	30	5289.966	-34	Pass
	40	5289.968	-32	Pass
	50	5289.965	-35	Pass
85% Vnom	20	5289.969	-31	Pass
115% Vnom	20	5289.969	-31	Pass

Antenna 1	5530	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5529.955	-45	Pass
	-10	5529.958	-42	Pass
	0	5529.958	-42	Pass
	10	5529.955	-45	Pass
	20	5529.958	-42	Pass
	30	5529.955	-45	Pass
	40	5529.957	-43	Pass
	50	5529.957	-43	Pass
85% Vnom	20	5529.959	-41	Pass
115% Vnom	20	5529.957	-43	Pass

Antenna 1	5610	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5609.968	-32	Pass
	-10	5609.967	-33	Pass
	0	5609.966	-34	Pass
	10	5609.967	-33	Pass
	20	5609.966	-34	Pass
	30	5609.966	-34	Pass
	40	5609.967	-33	Pass
	50	5609.965	-35	Pass
85% Vnom	20	5609.965	-35	Pass
115% Vnom	20	5609.967	-33	Pass

Antenna 1	5775	
Temperature : --	Test By:	King Kong
Humidity : 65 %		

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
Vnom	-20	5774.977	-23	Pass
	-10	5774.978	-22	Pass
	0	5774.980	-20	Pass
	10	5774.977	-23	Pass
	20	5774.976	-24	Pass
	30	5774.979	-21	Pass
	40	5774.979	-21	Pass
	50	5774.978	-22	Pass
85% Vnom	20	5774.981	-19	Pass
115% Vnom	20	5774.980	-20	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 (uV/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 § 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 $f < 1$ GHz (30MHz to 1GHz), 200Hz for $f < 150$ KHz (9KHz to 150KHz), 9KHz for < 30 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 voltage 120V & 240V and 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)

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

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
9073.30	V	51.83	-43.40	-27.00	-16.40
11538.30	V	54.03	-41.20	-27.00	-14.20
16401.15	V	55.31	-39.92	-27.00	-12.92
7711.60	H	50.41	-44.82	-27.00	-17.82
13632.70	H	55.61	-39.62	-27.00	-12.62
17997.45	H	55.55	-39.68	-27.00	-12.68

Temperature :	28°C	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5220
Test mode:	802.11a		

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
9107.30	V	52.05	-43.18	-27.00	-16.18
12127.35	V	54.00	-41.23	-27.00	-14.23
15742.40	V	53.62	-41.61	-27.00	-14.61
7690.35	H	50.81	-44.42	-27.00	-17.42
10158.75	H	52.60	-42.63	-27.00	-15.63
13997.35	H	54.50	-40.73	-27.00	-13.73

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

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
6301.45	V	48.57	-46.66	-27.00	-19.66
10769.90	V	54.12	-41.11	-27.00	-14.11
16401.15	V	54.79	-40.44	-27.00	-13.44
7150.60	H	50.31	-44.92	-27.00	-17.92
12654.35	H	53.97	-41.26	-27.00	-14.26
17997.45	H	54.49	-40.74	-27.00	-13.74

Note: (1) All Readings are Peak Value (VBW=3MHz)
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/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°C	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5180
Test mode:	802.11a		

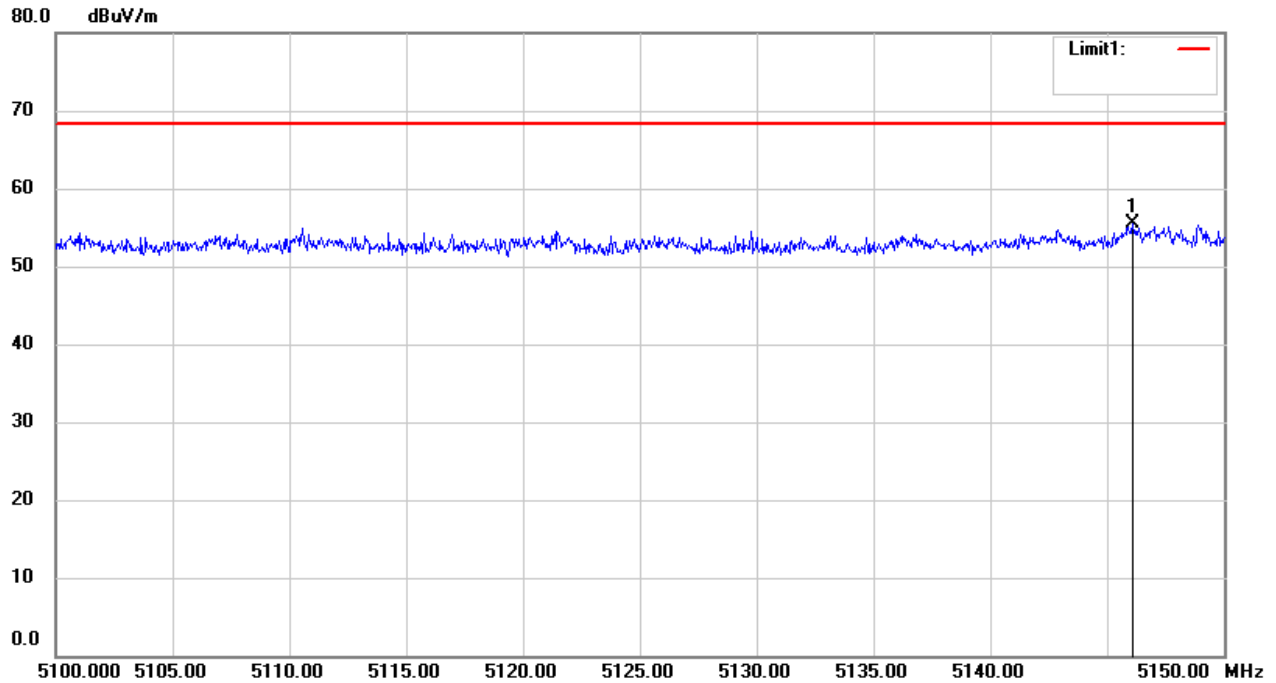
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5146.10	H	55.42	-39.81	-27.00	Pass
5149.30	V	54.30	-40.93	-27.00	Pass

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

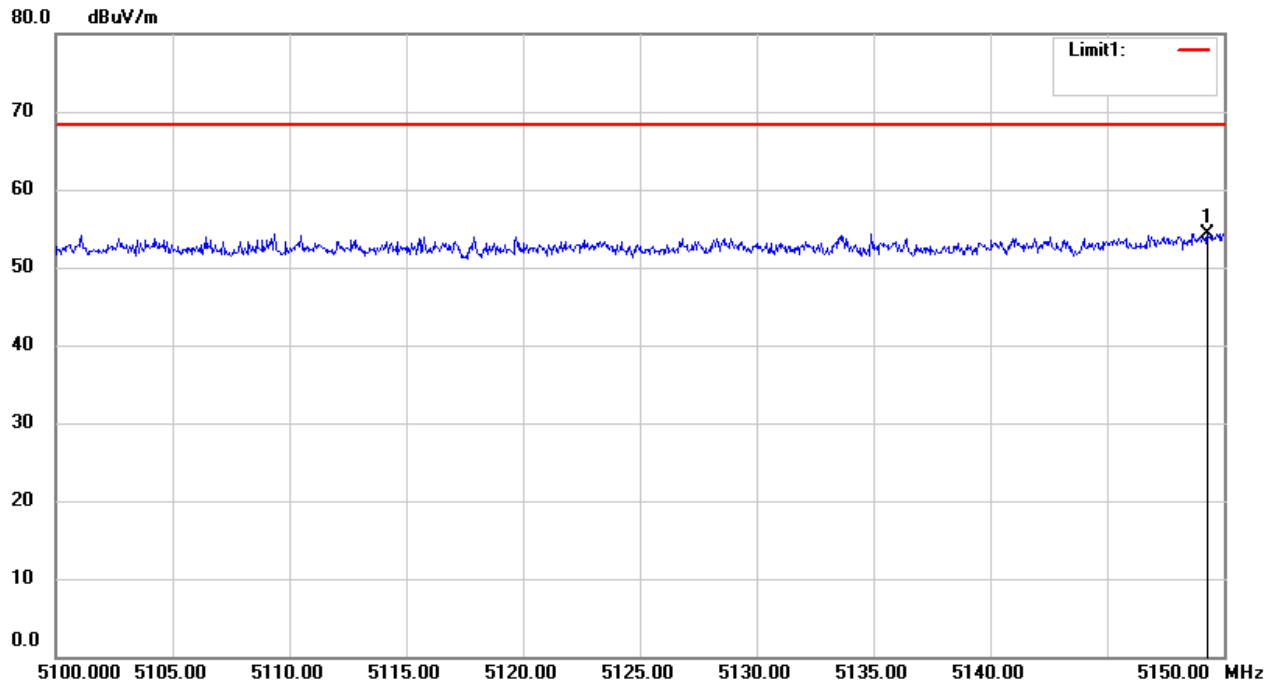
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5350.40	H	54.44	-40.79	-27.00	Pass
5350.00	V	54.80	-40.43	-27.00	Pass

Note: (1) All Readings are Peak Value (VBW=300kHz)
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) $EIRP[dBm] = E[dBuV/m] + 20 \log(d[meters]) - 104.77$
 d is the measurement distance in 3 meters

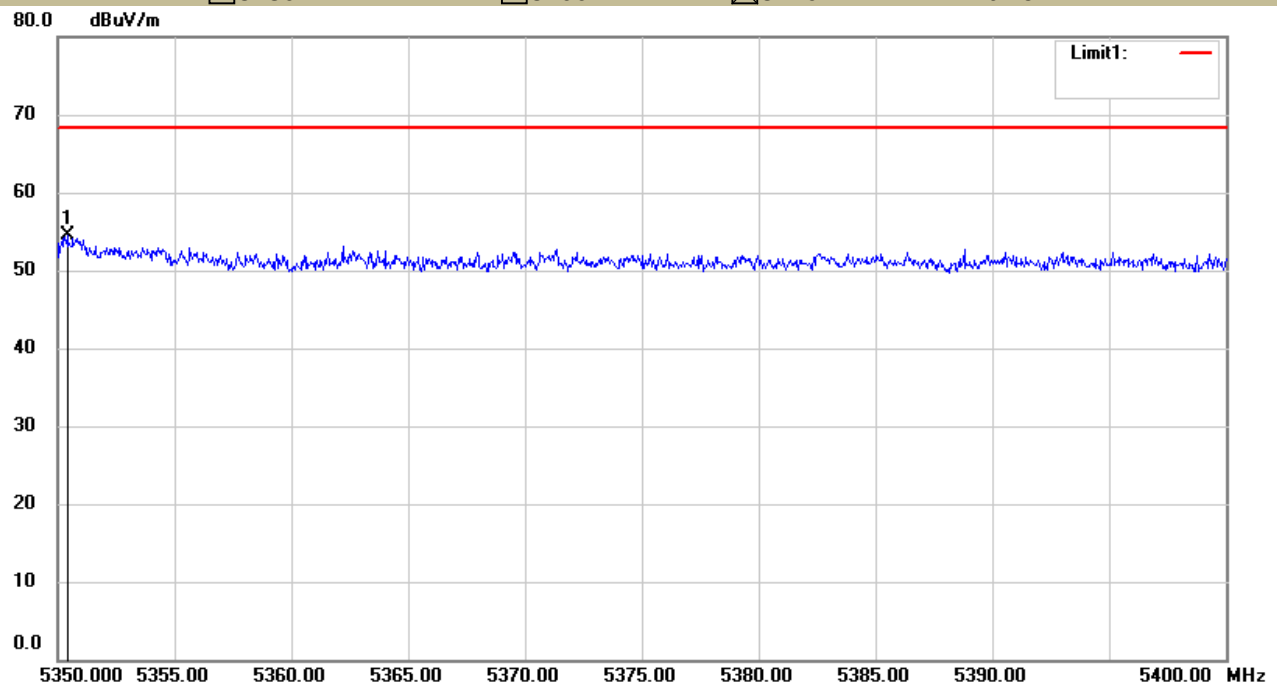
UNII Band I				
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)			
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
	☒ 5180	☐ 5200	☐ 5240	Ant.Pol H



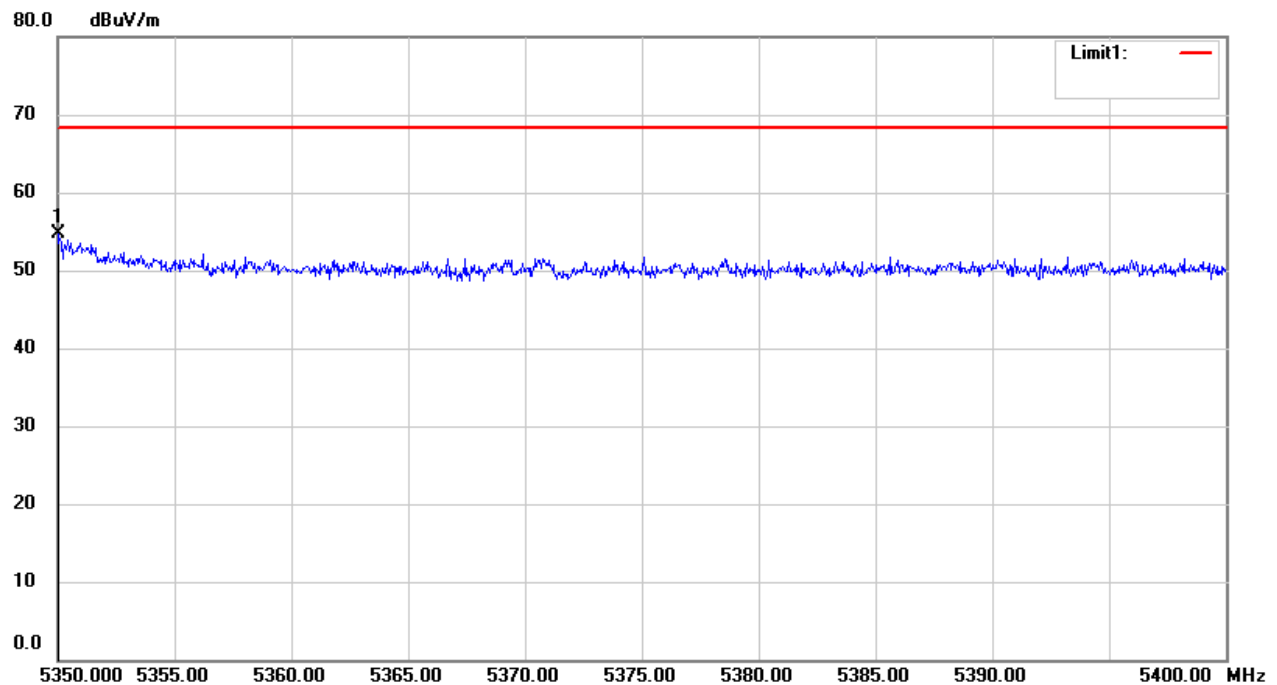
UNII Band I				
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)			
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
	☒ 5180	☐ 5200	☐ 5240	Ant.Pol V



UNII Band I				
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)			
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
	☐ 5180	☐ 5200	☒ 5240	Ant.Pol H



UNII Band I				
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)			
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
	☐ 5180	☐ 5200	☒ 5240	Ant.Pol V



- ☒ 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°C	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5260
Test mode:	802.11a		

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
6257.25	V	48.47	-46.76	-27.00	-19.76
11208.50	V	53.22	-42.01	-27.00	-15.01
16401.15	V	54.31	-40.92	-27.00	-13.92
8219.05	H	50.92	-44.31	-27.00	-17.31
13056.40	H	54.06	-41.17	-27.00	-14.17
16201.40	H	54.10	-41.13	-27.00	-14.13

Temperature :	28°C	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5280
Test mode:	802.11a		

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7064.75	V	49.57	-45.66	-27.00	-18.66
14492.90	V	53.79	-41.44	-27.00	-14.44
17945.60	V	53.96	-41.27	-27.00	-14.27
10158.75	H	52.60	-42.63	-27.00	-15.63
14353.50	H	54.01	-41.22	-27.00	-14.22
17996.60	H	55.38	-39.85	-27.00	-12.85

Temperature :	28°C	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5320
Test mode:	802.11a		

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7172.70	V	50.04	-45.19	-27.00	-18.19
13907.25	V	54.54	-40.69	-27.00	-13.69
17999.10	V	55.94	-39.29	-27.00	-12.29
8326.15	H	50.67	-44.56	-27.00	-17.56
12654.35	H	53.97	-41.26	-27.00	-14.26
17997.45	H	55.49	-39.74	-27.00	-12.74

Note: (1) All Readings are Peak Value (VBW=3MHz)
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) $EIRP[dBm] = E[dBuV/m] + 20 \log(d[meters]) - 104.77$
 d is the measurement distance in 3 meters

- ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

Temperature :	28°C	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5260
Test mode:	802.11a		

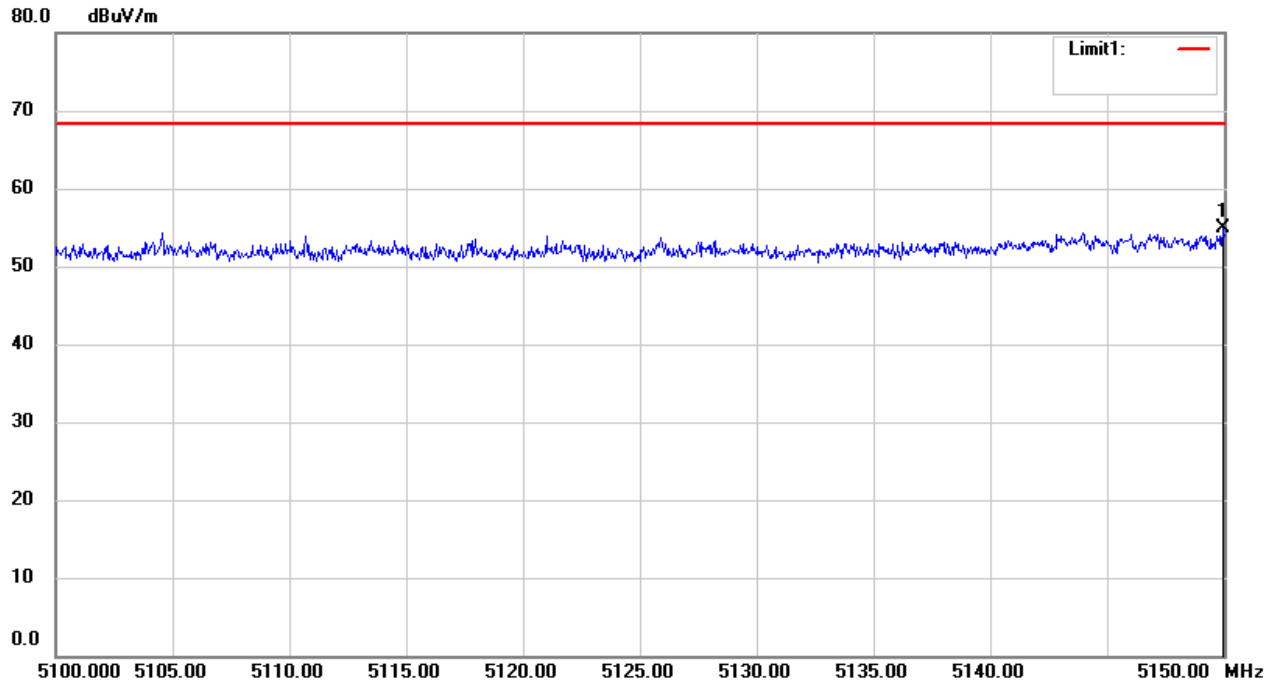
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5149.95	H	54.88	-40.35	-27.00	Pass
5149.30	V	54.13	-41.10	-27.00	Pass

Temperature :	28°C	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5320
Test mode:	802.11a		

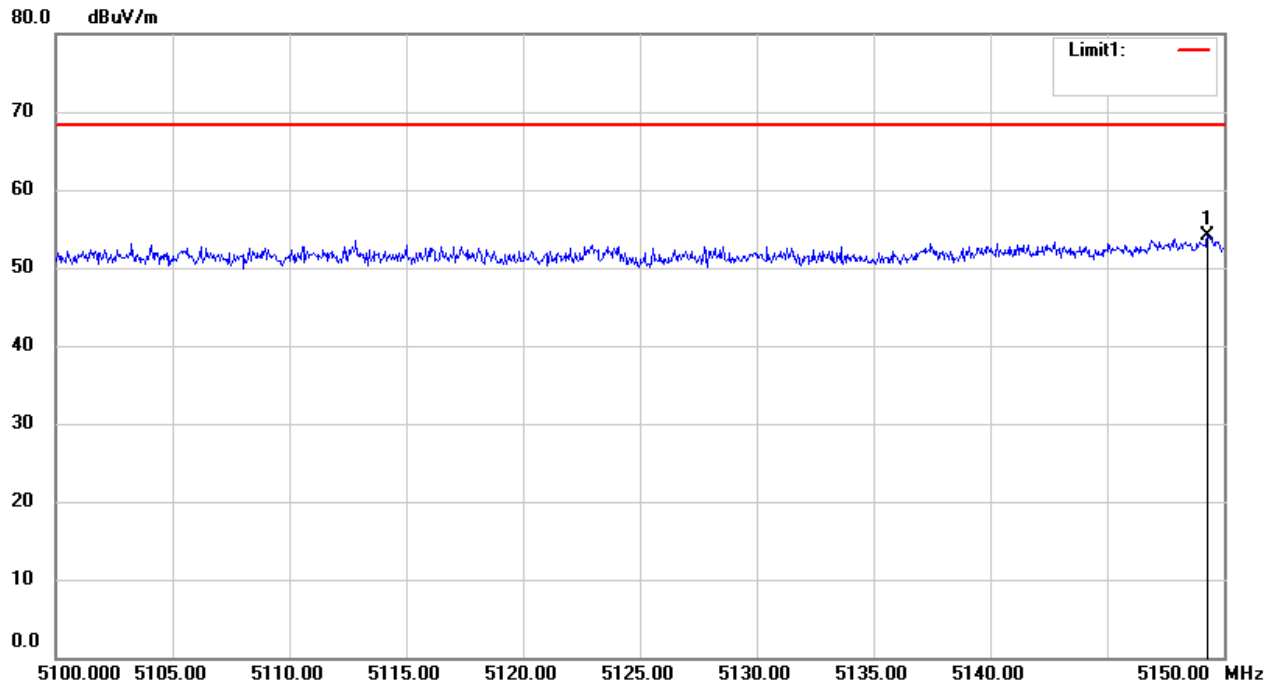
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5350.30	H	55.13	-40.10	-27.00	Pass
5350.15	V	54.95	-40.28	-27.00	Pass

Note: (1) All Readings are Peak Value (VBW=300kHz)
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) $EIRP[dBm] = E[dBuV/m] + 20 \log(d[meters]) - 104.77$
 d is the measurement distance in 3 meters

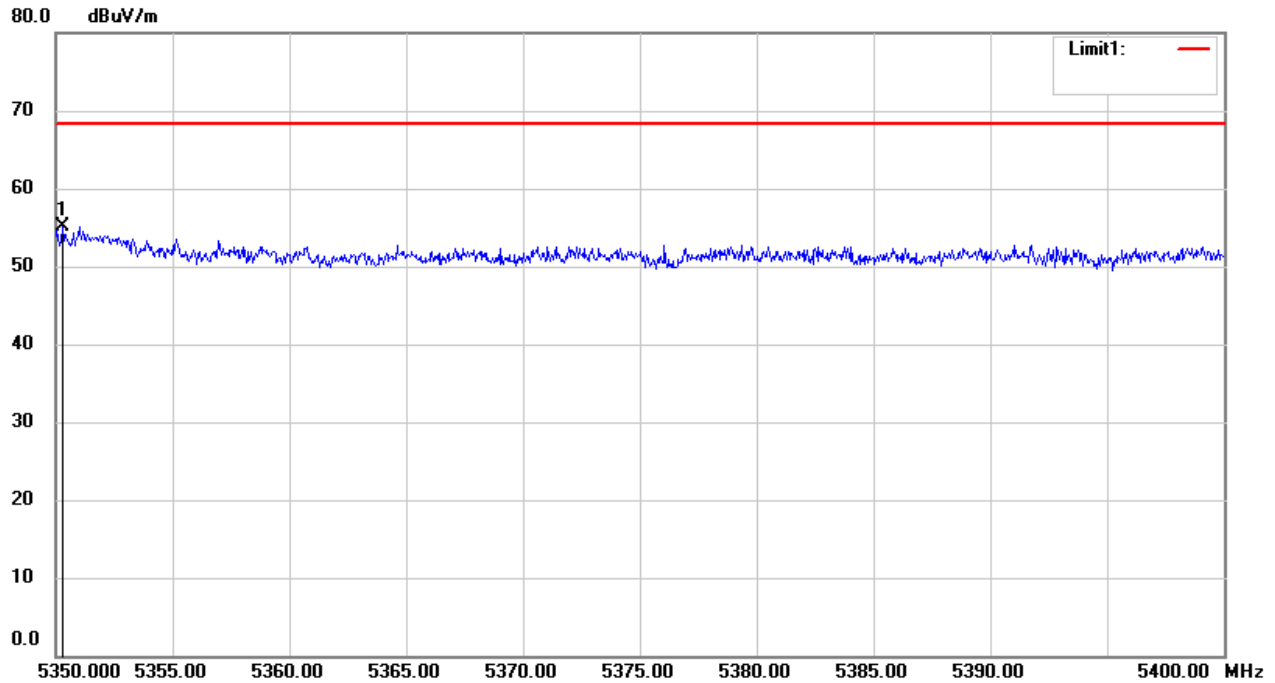
UNII Band II-A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
		☒ 5260	Ant.Pol	H



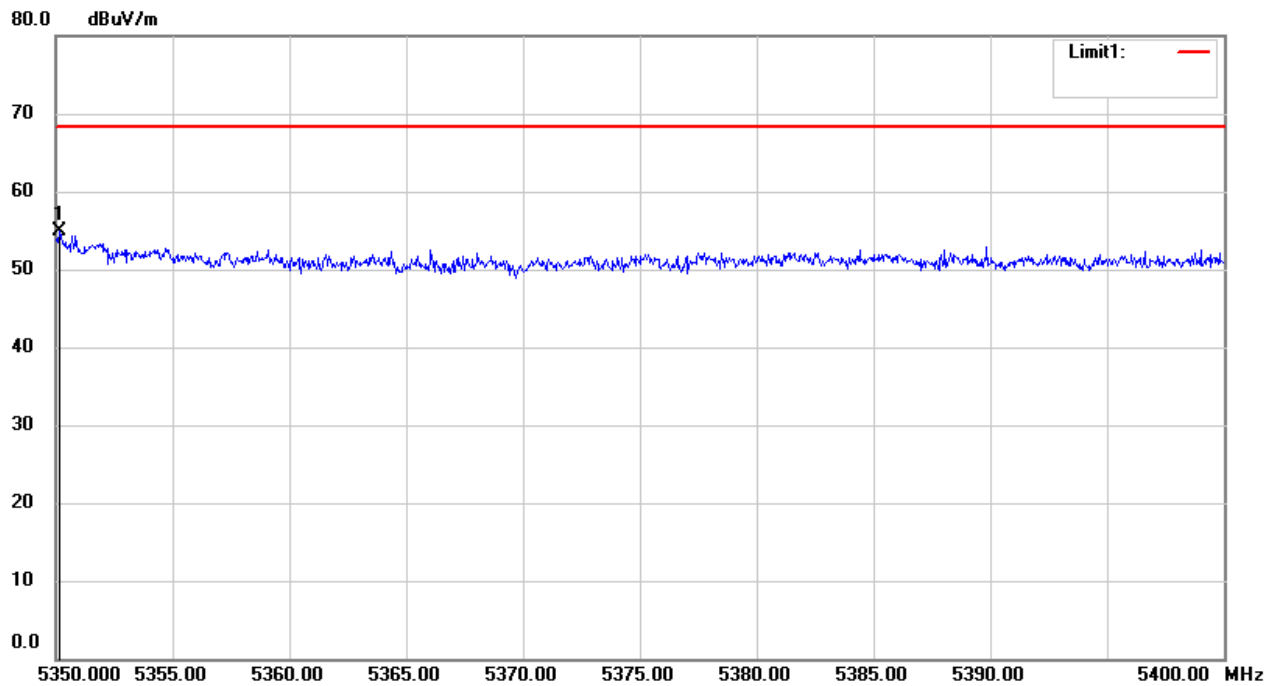
UNII Band II-A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
		☒ 5260	Ant.Pol	V



UNII Band II-A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
		☒ 5320	Ant.Pol	H



UNII Band II-A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
		☒ 5320	Ant.Pol	V



- ☒ 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°C	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5500
Test mode:	802.11a		

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7043.50	V	48.77	-46.46	-27.00	-19.46
13352.20	V	53.79	-41.44	-27.00	-14.44
17997.45	V	54.47	-40.76	-27.00	-13.76
7711.60	H	50.41	-44.82	-27.00	-17.82
12126.50	H	53.36	-41.87	-27.00	-14.87
17997.45	H	54.05	-41.18	-27.00	-14.18

Temperature :	28°C	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5600
Test mode:	802.11a		

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7705.65	V	49.63	-45.60	-27.00	-18.60
12127.35	V	53.50	-41.73	-27.00	-14.73
17995.75	V	54.10	-41.13	-27.00	-14.13
8612.60	H	53.42	-41.81	-27.00	-14.81
13336.05	H	53.66	-41.57	-27.00	-14.57
18000.00	H	55.06	-40.17	-27.00	-13.17

Temperature :	28°C	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5700
Test mode:	802.11a		

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7715.00	V	50.62	-44.61	-27.00	-17.61
12126.50	V	54.13	-41.10	-27.00	-14.10
17999.15	V	54.55	-40.68	-27.00	-13.68
8593.90	H	51.10	-44.13	-27.00	-17.13
12125.65	H	54.40	-40.83	-27.00	-13.83
17997.45	H	55.99	-39.24	-27.00	-12.24

Note: (1) All Readings are Peak Value (VBW=3MHz)
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/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 By:	King Kong
Humidity :	65 %	Frequency(MHz):	5260
Test mode:	802.11a		

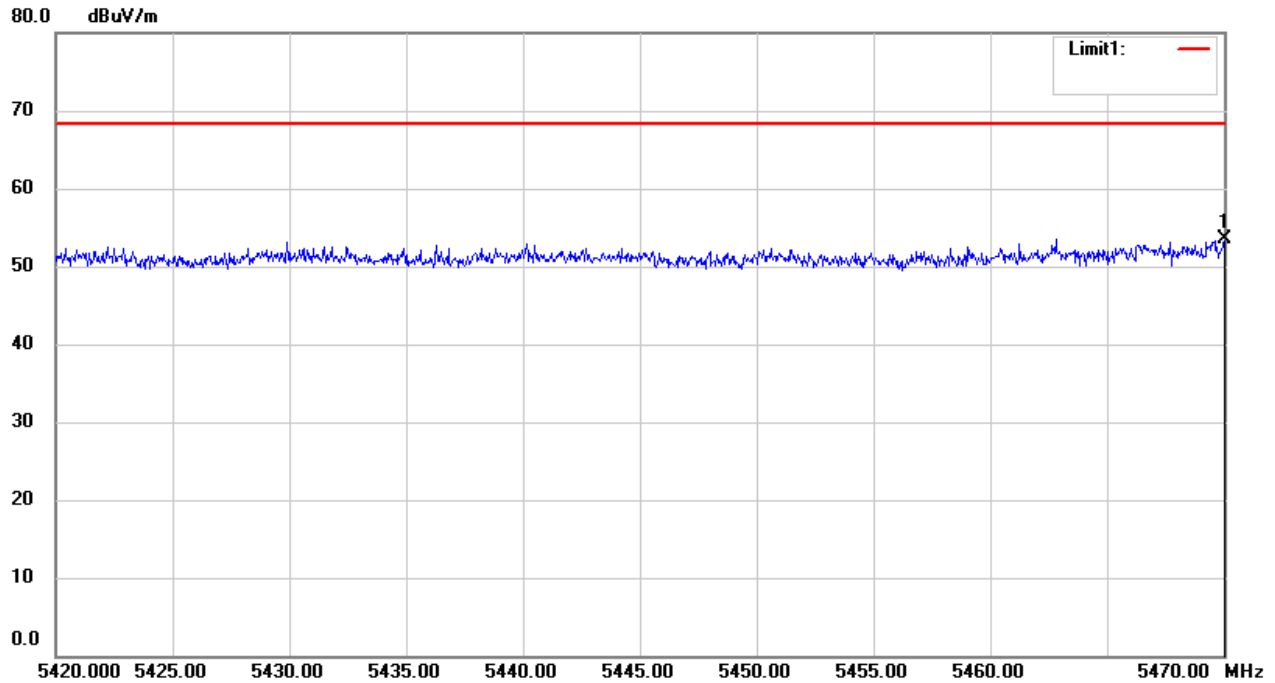
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5470.00	H	53.49	-41.74	-27.00	Pass
5469.75	V	53.79	-41.44	-27.00	Pass

Temperature :	28℃	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5320
Test mode:	802.11a		

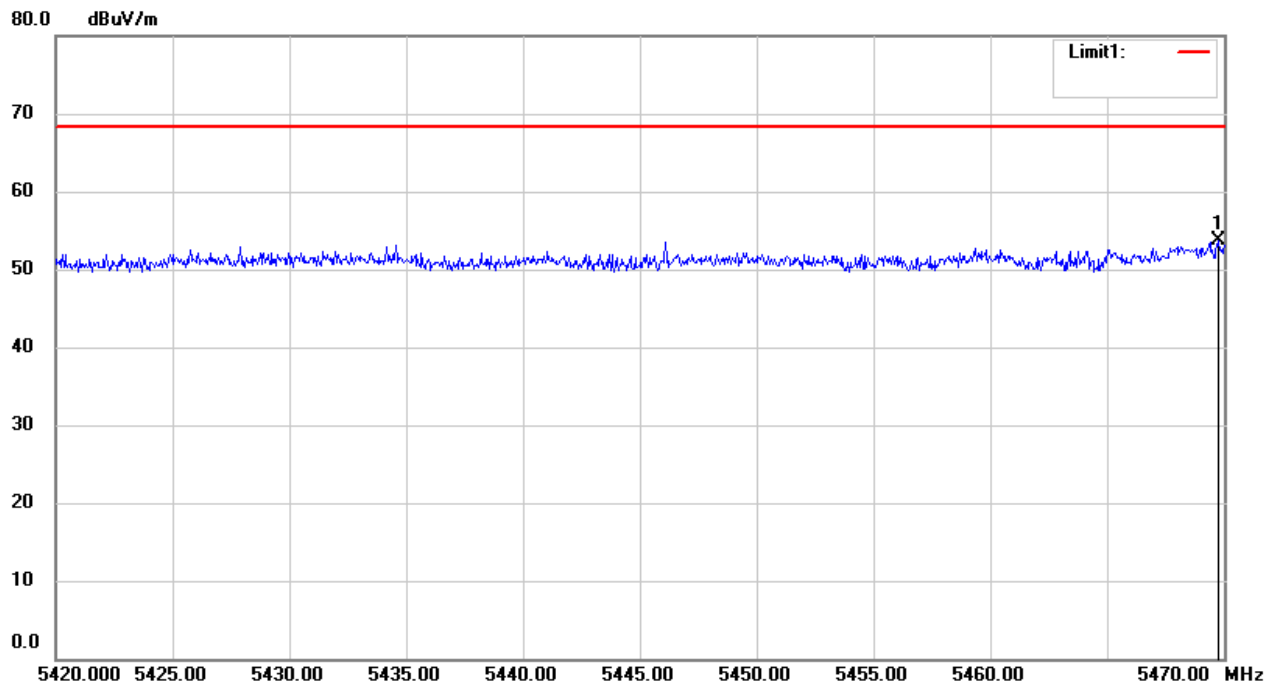
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5725.05	H	59.59	-35.64	-27.00	Pass
5725.20	V	58.49	-36.74	-27.00	Pass

Note: (1) All Readings are Peak Value(VBW=300kHz)
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

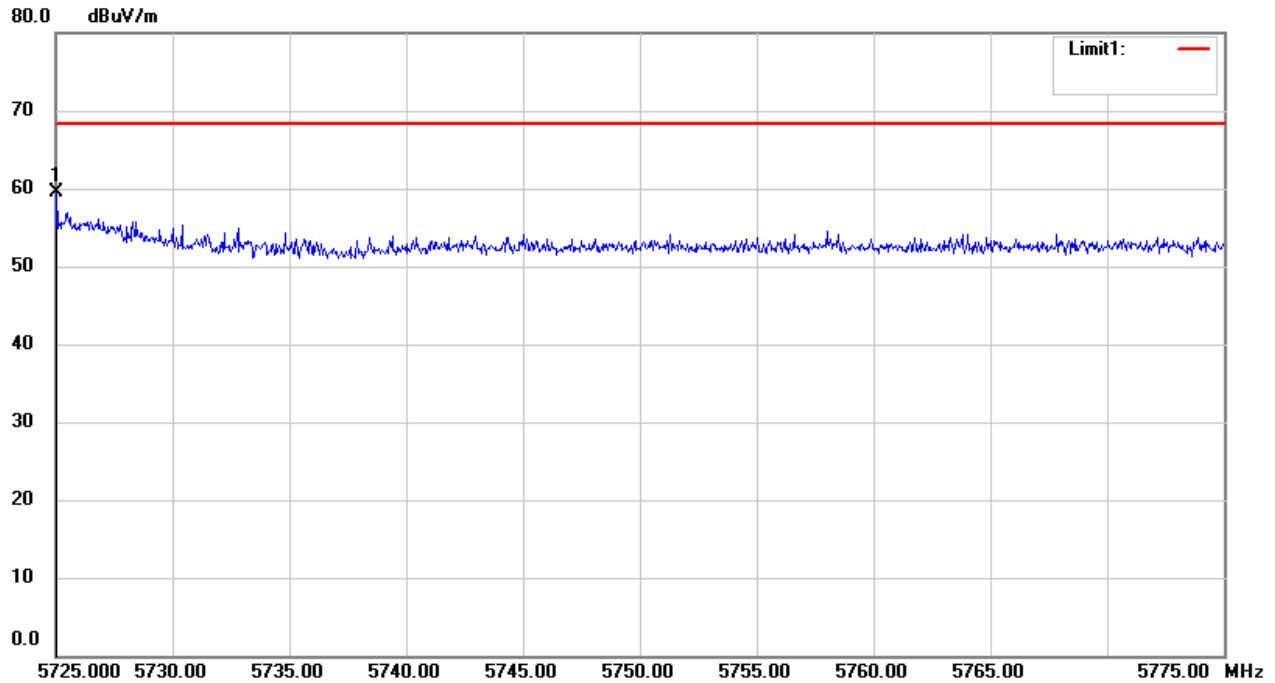
UNII Band II-C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
		☒ 5500	Ant.Pol	H



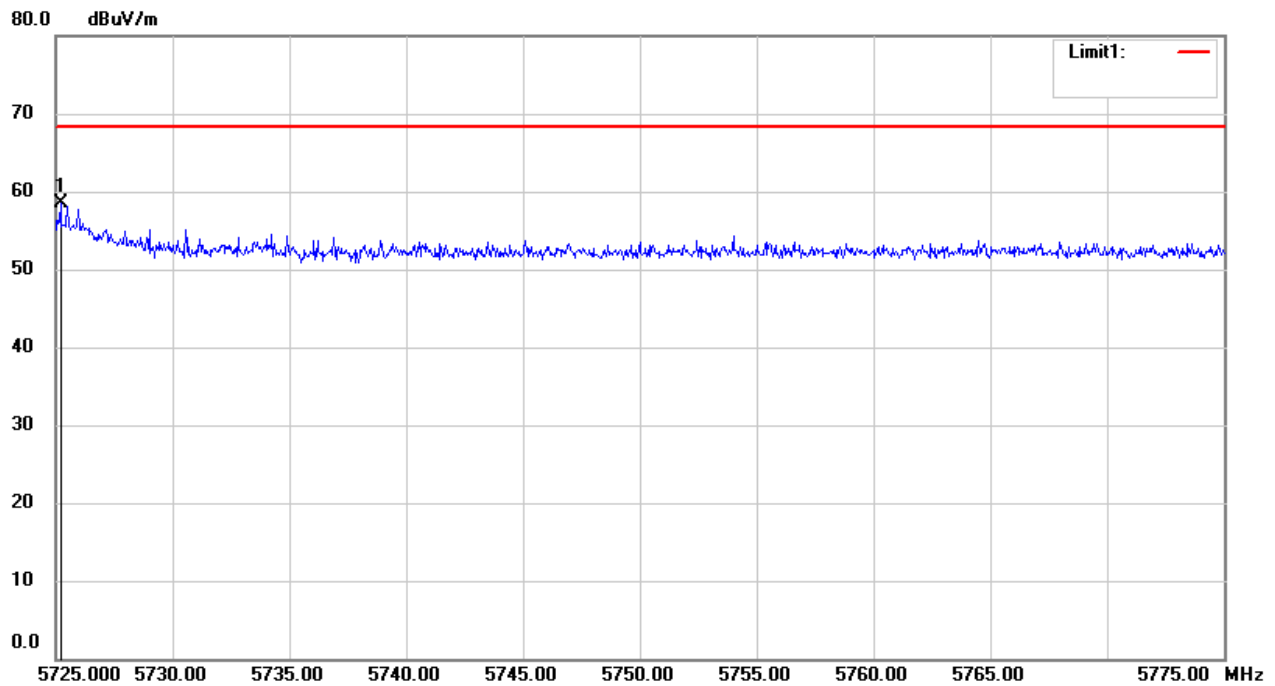
UNII Band II-C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
		☒ 5500	Ant.Pol	V



UNII Band II-C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
		☒ 5700	Ant.Pol	H



UNII Band II-C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
		☒ 5700	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)

Temperature :	28℃	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5745
Test mode:	802.11a		

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
8024.40	V	51.10	-44.13	-27.00	-17.13
10280.30	V	52.49	-42.74	-27.00	-15.74
13911.50	V	53.35	-41.88	-27.00	-14.88
9049.50	H	51.98	-43.25	-27.00	-16.25
13632.70	H	54.11	-41.12	-27.00	-14.12
16402.00	H	53.98	-41.25	-27.00	-14.25

Temperature :	28℃	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5785
Test mode:	802.11a		

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
9107.30	V	52.05	-43.18	-27.00	-16.18
12127.35	V	53.50	-41.73	-27.00	-14.73
16401.15	V	53.34	-41.89	-27.00	-14.89
10158.75	H	52.60	-42.63	-27.00	-15.63
13336.05	H	54.16	-41.07	-27.00	-14.07
16455.55	H	53.97	-41.26	-27.00	-14.26

Temperature :	28℃	Test By:	King Kong
Humidity :	65 %	Frequency(MHz):	5825
Test mode:	802.11a		

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7703.14	V	51.13	-44.10	-27.00	-17.10
13245.95	V	53.63	-41.60	-27.00	-14.60
17999.15	V	54.94	-40.29	-27.00	-13.29
71750.60	H	49.81	-45.42	-27.00	-18.42
12125.65	H	53.4	-41.83	-27.00	-14.83
16401.15	H	54.17	-41.06	-27.00	-14.06

- Note:** (1) All Readings are Peak Value(VBW=300kHz)
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) $EIRP[dBm] = E[dBuV/m] + 20 \log(d[meters]) - 104.77$
 d is the measurement distance in 3 meters

- ☒ Undesirable radiated Spurious Emission in band edge

Temperature :	28°C	Test By:	King Kong
Humidity :	65 %	Frequency:	5745
Test mode:	802.11a		

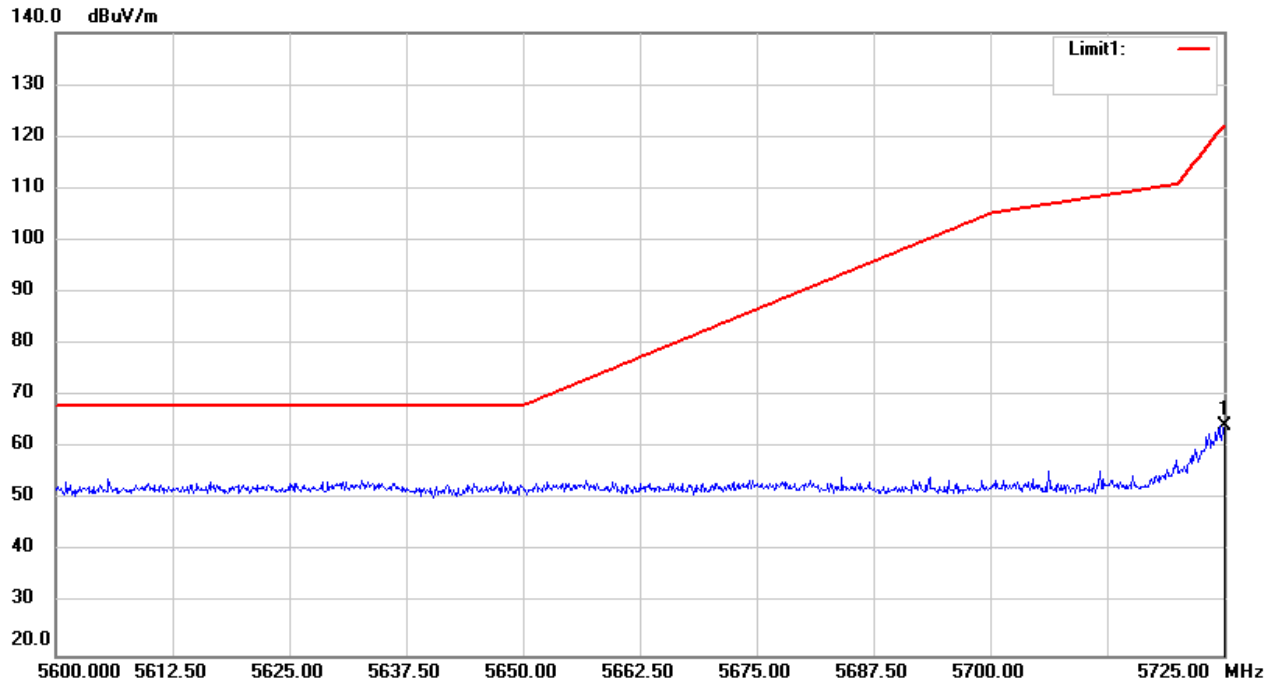
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5725.00	H	62.45	-32.78	27.0	PASS
5724.88	V	62.74	-32.49	26.7	PASS

Temperature :	28°C	Test By:	King Kong
Humidity :	65 %	Frequency:	5825
Test mode:	802.11a		

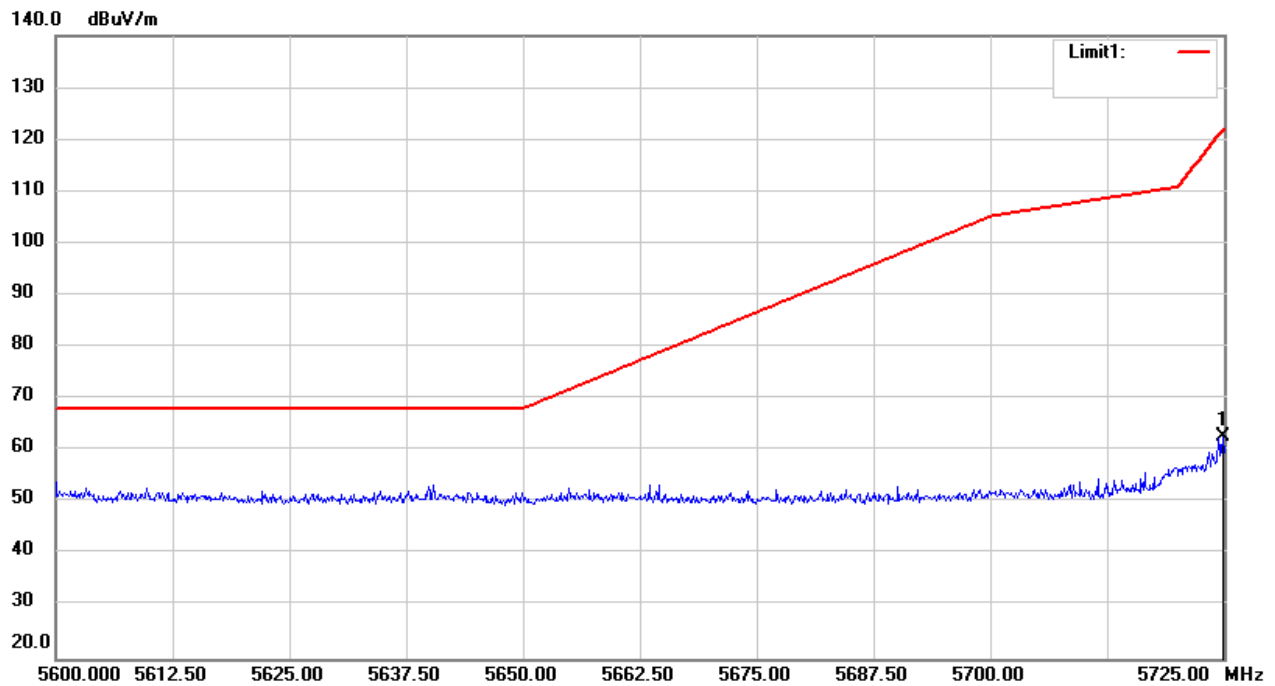
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5850.00	H	62.77	-32.46	27.0	PASS
5850.00	V	63.14	-32.09	27.0	PASS

Note: (1) All Readings are Peak Value (VBW=3MHz)
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) $EIRP[dBm] = E[dBuV/m] + 20 \log(d[meters]) - 104.77$
 d is the measurement distance in 3 meters

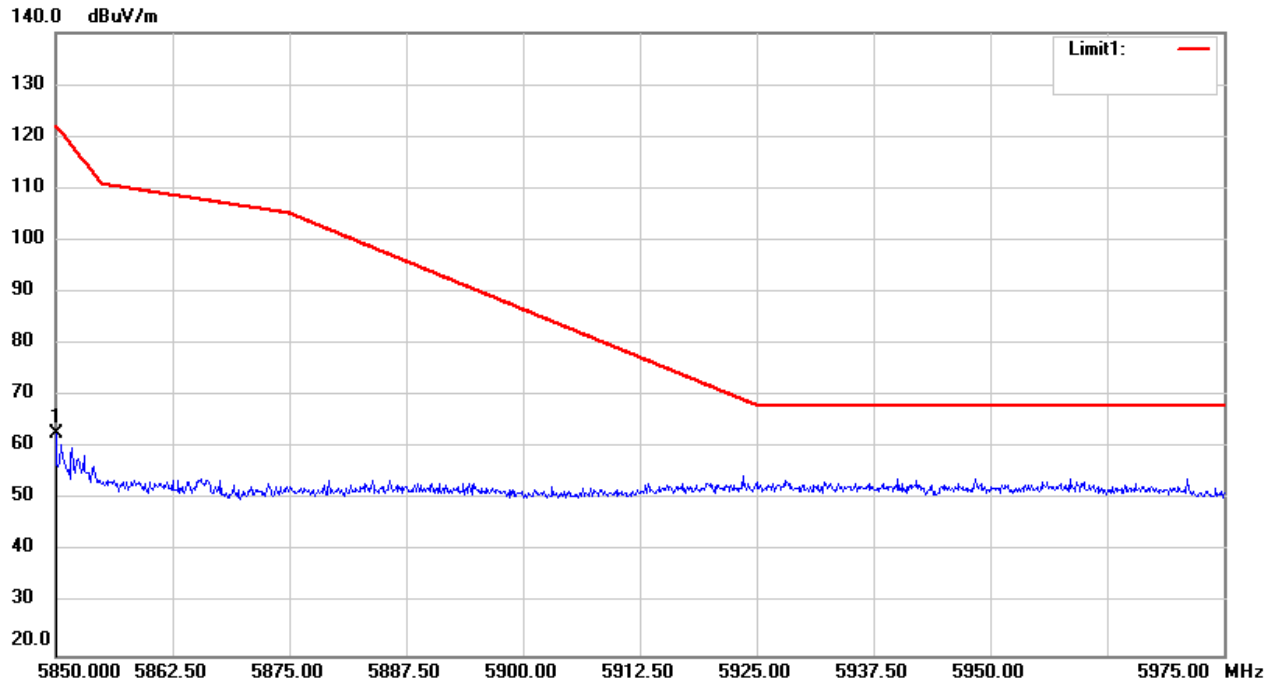
UNII Band III				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
	☒ 5745		Ant.Pol	H



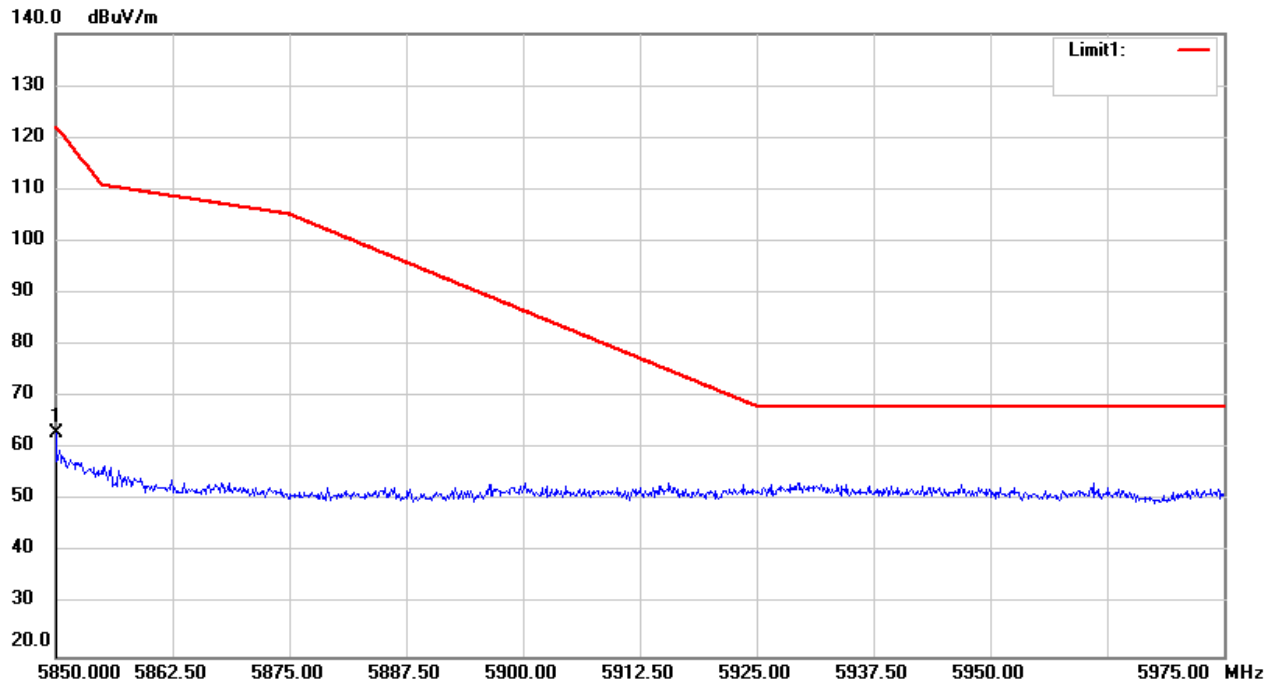
UNII Band III				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
	☒ 5745		Ant.Pol	V



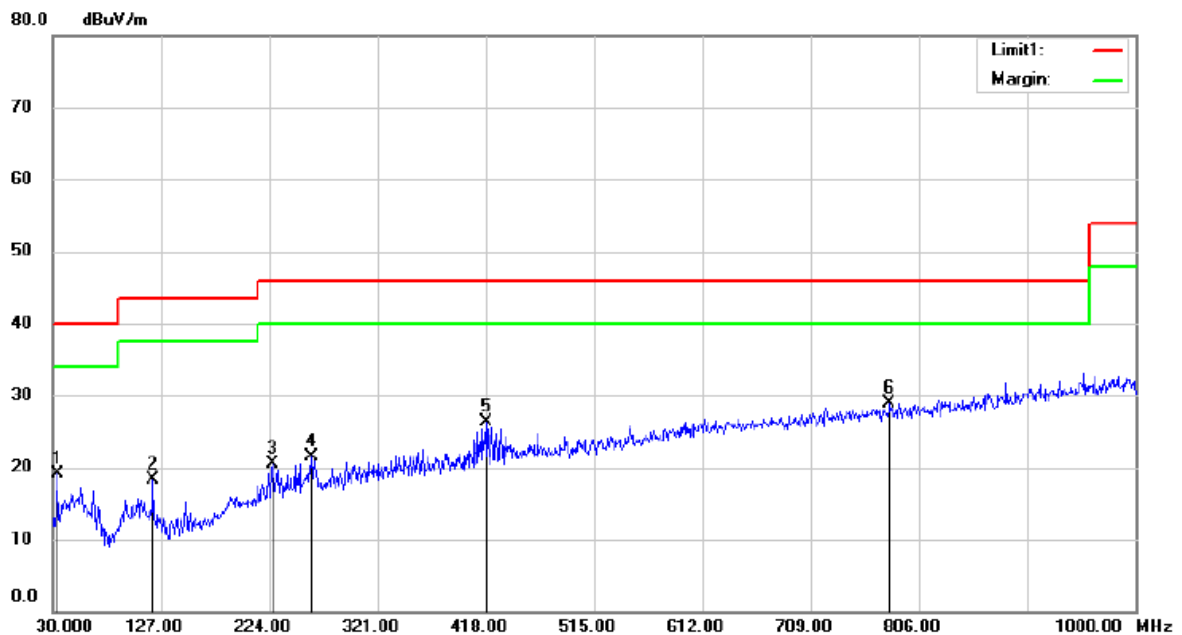
UNII Band III				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
	☒ 5825		Ant.Pol	H



UNII Band III				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	☒ 802.11a	☐ 802.11n(HT20)	☐ 802.11n(HT40)	
	☒ 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 3m Chamber 1#

Polarization: **Horizontal**

Temperature: 27 C

Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity: 43 %

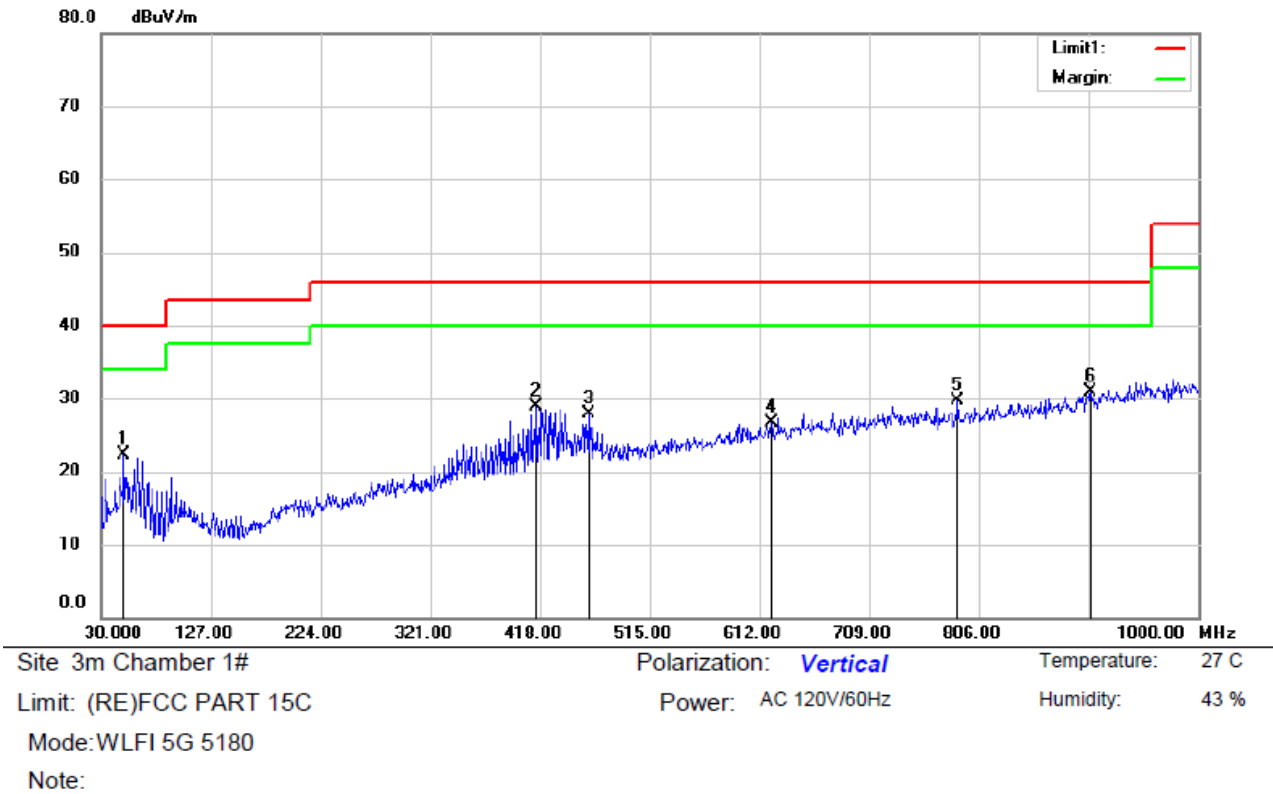
Mode: WLF1 5G 5180

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 degree	Comment
1		34.6074	32.24	-13.20	19.04	40.00	-20.96	peak		
2		120.8162	32.46	-14.23	18.23	43.50	-25.27	peak		
3		227.2737	31.27	-10.71	20.56	46.00	-25.44	peak		
4		262.1937	30.96	-9.43	21.53	46.00	-24.47	peak		
5		419.8187	31.94	-5.58	26.36	46.00	-19.64	peak		
6	*	780.2950	28.74	0.13	28.87	46.00	-17.13	peak		

*:Maximum data x:Over limit !:over margin

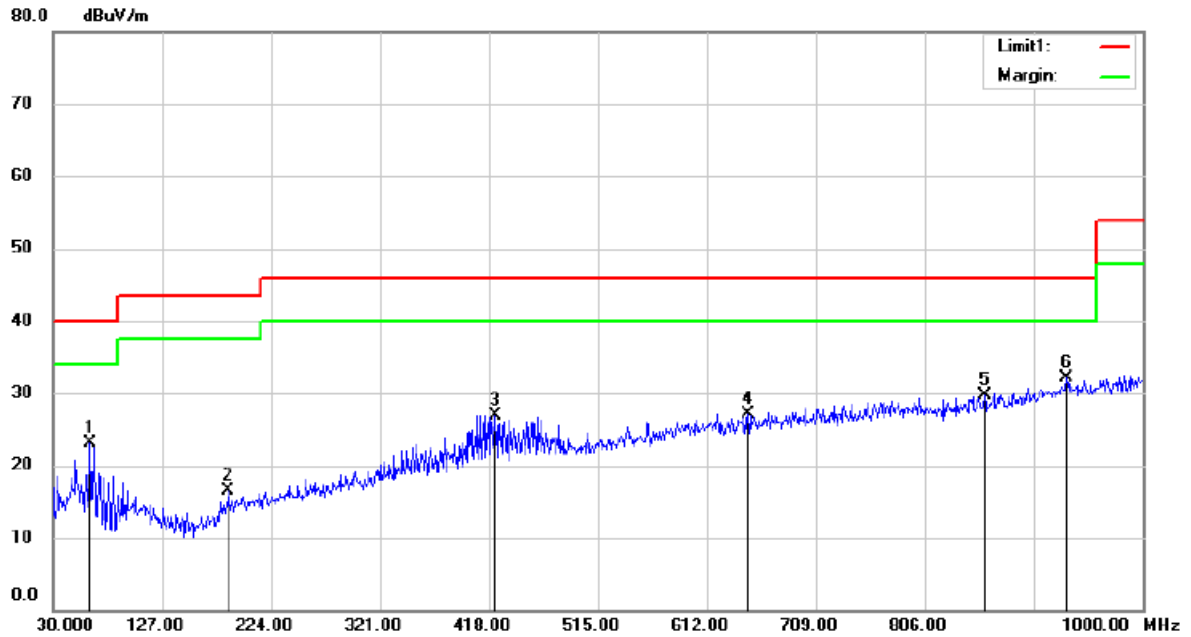
Operator: XZC



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		51.2186	33.45	-11.18	22.27	40.00	-17.73			peak
2		415.8173	34.50	-5.65	28.85	46.00	-17.15			peak
3		460.8012	33.30	-5.31	27.99	46.00	-18.01			peak
4		623.1550	28.63	-1.90	26.73	46.00	-19.27			peak
5		787.6912	29.55	0.14	29.69	46.00	-16.31			peak
6	*	905.6675	28.62	2.19	30.81	46.00	-15.19			peak

*:Maximum data x:Over limit !:over margin

Operator: XZC



Site 3m Chamber 1#

Polarization: **Vertical**

Temperature: 27 C

Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity: 43 %

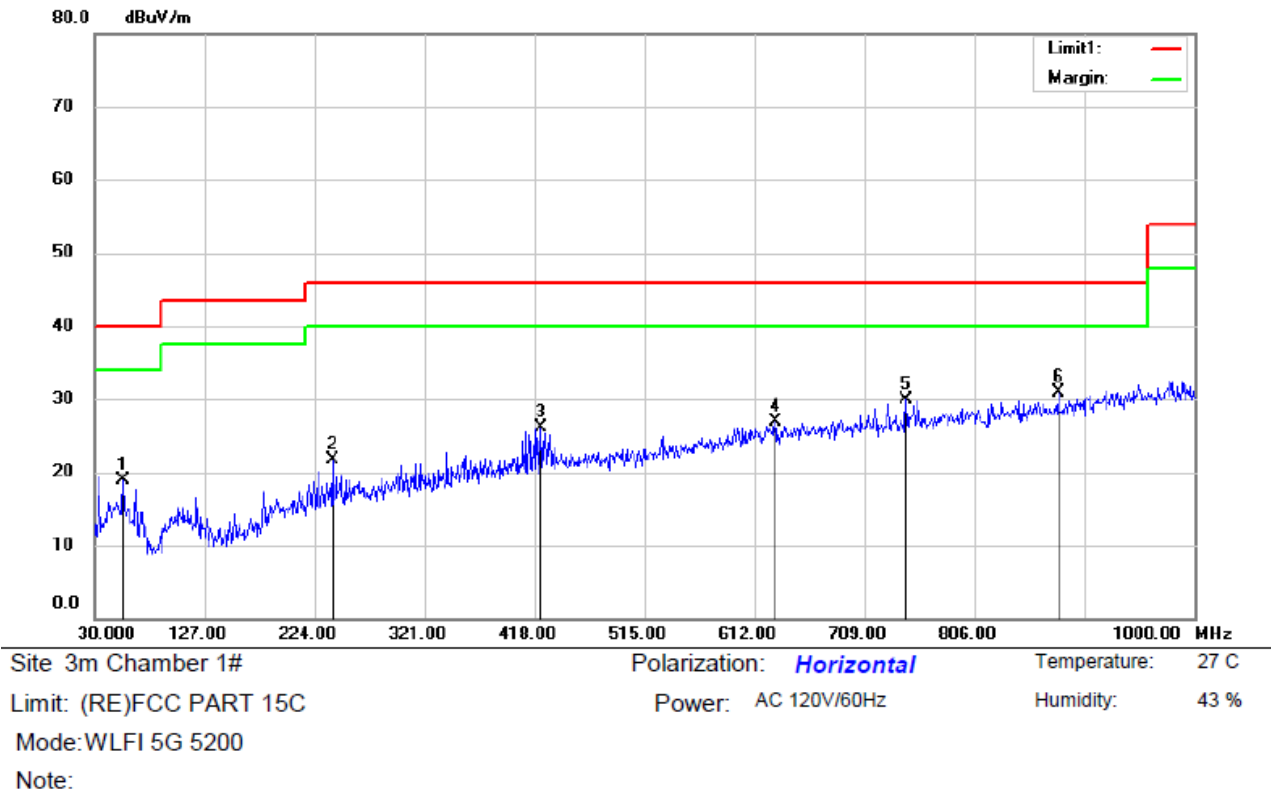
Mode:WLF1 5G 5200

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		63.4650	36.37	-13.30	23.07	40.00	-16.93	peak		
2		186.6550	29.35	-12.87	16.48	43.50	-27.02	peak		
3		423.9413	32.49	-5.51	26.98	46.00	-19.02	peak		
4		649.2237	28.83	-1.64	27.19	46.00	-18.81	peak		
5		859.8350	28.59	1.18	29.77	46.00	-16.23	peak		
6	*	932.4637	29.36	2.66	32.02	46.00	-13.98	peak		

*:Maximum data x:Over limit !:over margin

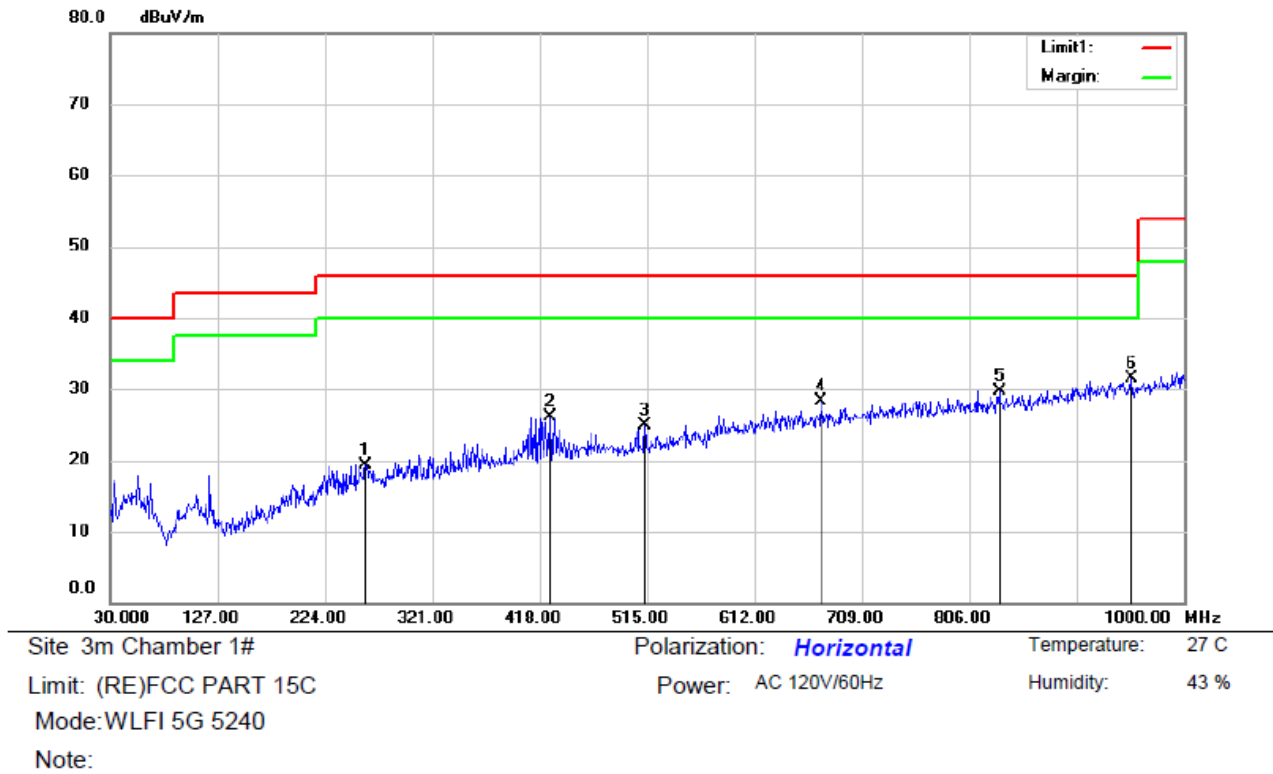
Operator: XZC



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		55.2200	30.63	-11.68	18.95	40.00	-21.05	peak		
2		239.6412	31.84	-10.17	21.67	46.00	-24.33	peak		
3		423.9412	31.59	-5.51	26.08	46.00	-19.92	peak		
4		630.5512	28.67	-1.86	26.81	46.00	-19.19	peak		
5		746.4662	30.23	-0.29	29.94	46.00	-16.06	peak		
6	*	880.5687	29.26	1.67	30.93	46.00	-15.07	peak		

*:Maximum data x:Over limit !:over margin

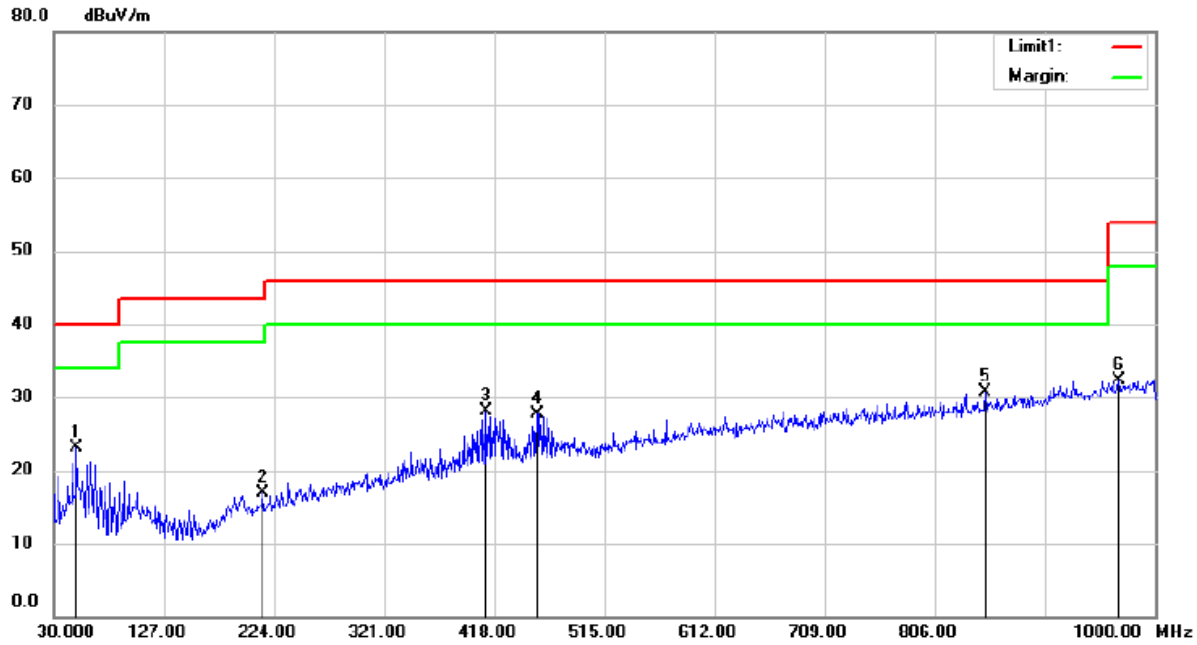
Operator: XZC



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		260.8600	28.78	-9.47	19.31	46.00	-26.69	peak		
2		428.0637	31.55	-5.44	26.11	46.00	-19.89	peak		
3		513.1812	29.35	-4.53	24.82	46.00	-21.18	peak		
4		672.3825	29.76	-1.45	28.31	46.00	-17.69	peak		
5		833.4025	29.05	0.65	29.70	46.00	-16.30	peak		
6	*	953.3187	28.47	3.03	31.50	46.00	-14.50	peak		

*:Maximum data x:Over limit !:over margin

Operator: XZC



Site 3m Chamber 1#

Polarization: **Vertical**

Temperature: 27 C

Limit: (RE)FCC PART 15C

Power: AC 120V/60Hz

Humidity: 43 %

Mode: WLF1 5G 5240

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		51.0974	34.34	-11.19	23.15	40.00	-16.85	peak		
2		215.0275	28.42	-11.53	16.89	43.50	-26.61	peak		
3		411.6950	33.79	-5.72	28.07	46.00	-17.93	peak		
4		456.6787	33.03	-5.33	27.70	46.00	-18.30	peak		
5	*	850.7412	29.75	0.95	30.70	46.00	-15.30	peak		
6		968.7174	29.04	3.25	32.29	54.00	-21.71	peak		

*:Maximum data x:Over limit !:over margin

Operator: XZC

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.

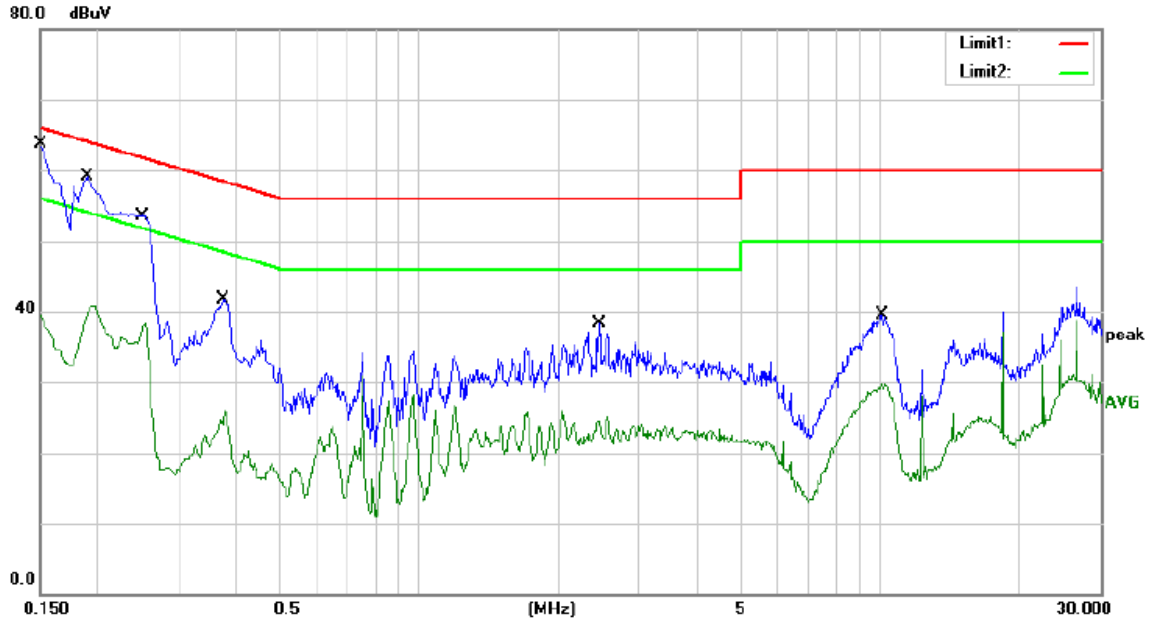
Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

8.6.5 Test Results

Pass

All mode and the voltage 120V and 240V have been tested, and show the worst result as bellow.



Site: Conduction #2

Phase: **L1**

Temperature: 23.7

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

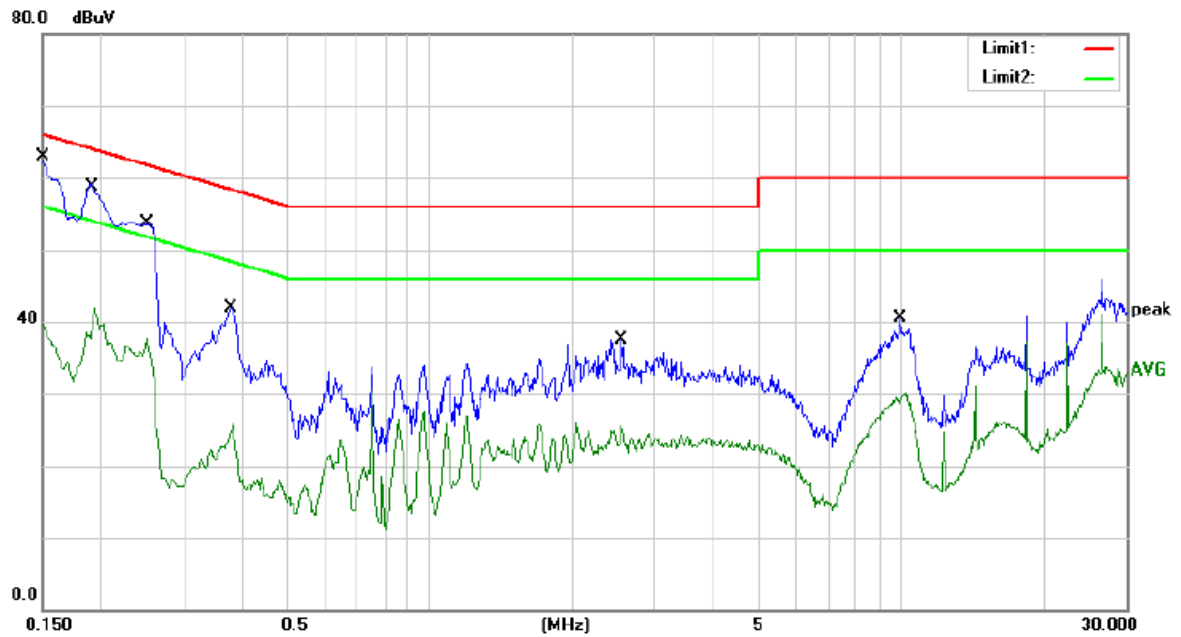
Humidity: 41 %

Mode: 802.11 a 5180MHz

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	60.00	0.00	60.00	66.00	-6.00	QP	
2		0.1500	39.92	0.00	39.92	56.00	-16.08	AVG	
3	*	0.1900	59.09	0.00	59.09	64.04	-4.95	QP	
4		0.1900	40.80	0.00	40.80	54.04	-13.24	AVG	
5		0.2540	52.99	0.00	52.99	61.63	-8.64	QP	
6		0.2540	38.29	0.00	38.29	51.63	-13.34	AVG	
7		0.3740	41.63	0.00	41.63	58.41	-16.78	QP	
8		0.3740	25.96	0.00	25.96	48.41	-22.45	AVG	
9		2.4500	38.23	0.00	38.23	56.00	-17.77	QP	
10		2.4500	25.12	0.00	25.12	46.00	-20.88	AVG	
11		10.1100	39.47	0.00	39.47	60.00	-20.53	QP	
12		10.1100	29.64	0.00	29.64	50.00	-20.36	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: KK



Site Conduction #2

Phase: **N**

Temperature: 23.7

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 41 %

Mode: 802.11 a 5180MHz

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	60.30	0.00	60.30	66.00	-5.70	QP	
2		0.1500	40.05	0.00	40.05	56.00	-15.95	AVG	
3	*	0.1940	59.30	0.00	59.30	63.86	-4.56	QP	
4		0.1940	41.98	0.00	41.98	53.86	-11.88	AVG	
5		0.2500	53.67	0.00	53.67	61.76	-8.09	QP	
6		0.2500	37.68	0.00	37.68	51.76	-14.08	AVG	
7		0.3820	41.95	0.00	41.95	58.24	-16.29	QP	
8		0.3820	25.89	0.00	25.89	48.24	-22.35	AVG	
9		2.5500	37.42	0.00	37.42	56.00	-18.58	QP	
10		2.5500	25.43	0.00	25.43	46.00	-20.57	AVG	
11		9.9140	40.57	0.00	40.57	60.00	-19.43	QP	
12		9.9140	30.09	0.00	30.09	50.00	-19.91	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: KK

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.

8.7.2 Result

PASS.

The EUT has two FPC antennas for WIFI, the max gain:

Antenna 0: -5.31dBi

Antenna 1: -5.49dBi

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)

W

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