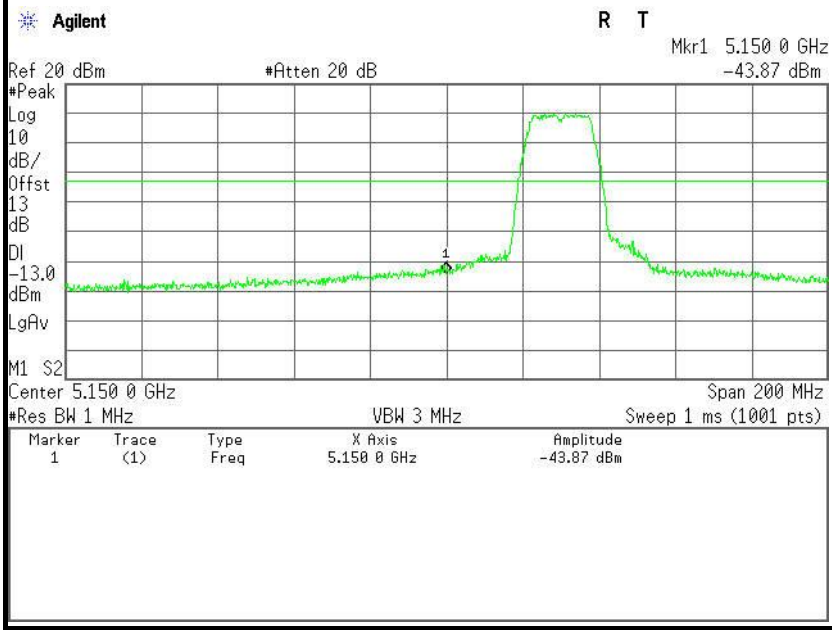
Test Plot

IEEE 802.11a mode / 5180 ~ 5240MHz

CH Low

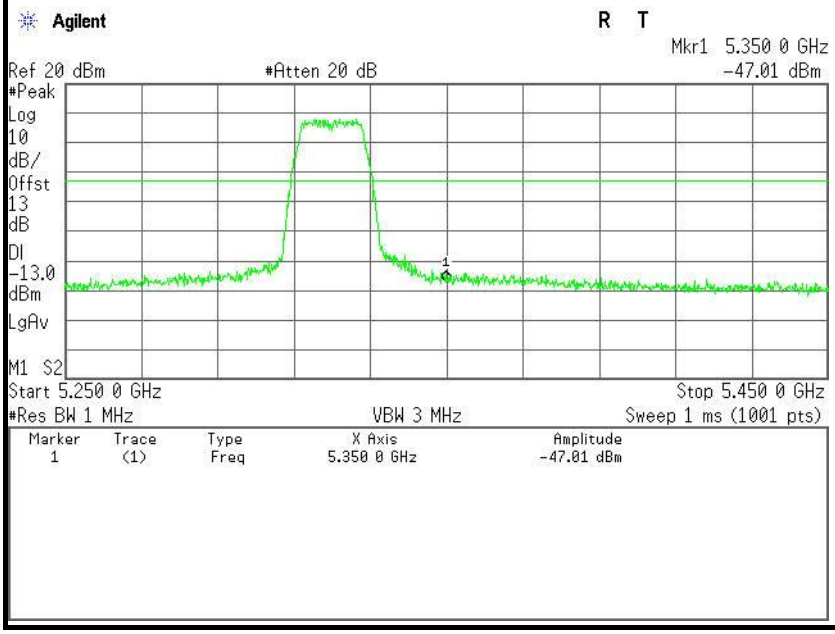
Antenna 1



IEEE 802.11a mode / 5260~ 5320MHz

CH High

Antenna 1



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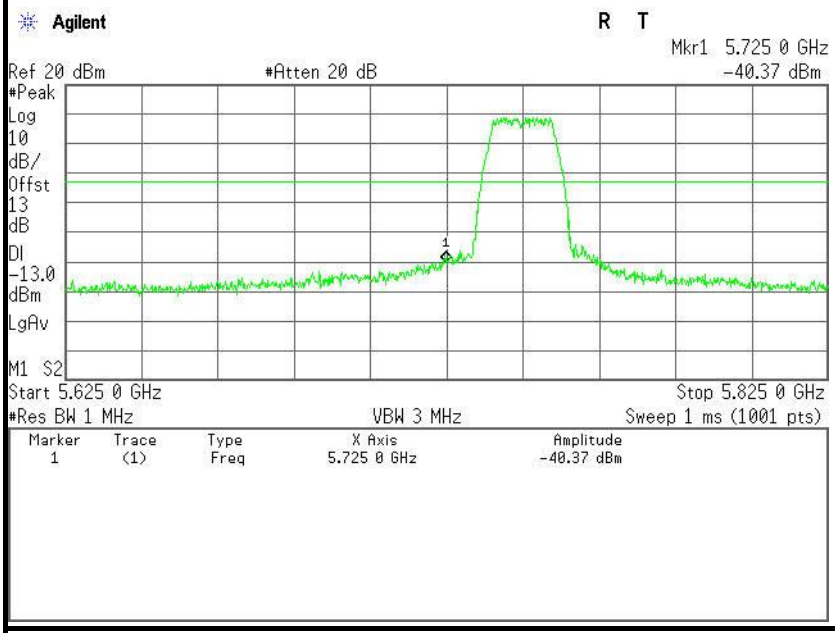
IEEE 802.11a mode / 5745 ~ 5825MHz

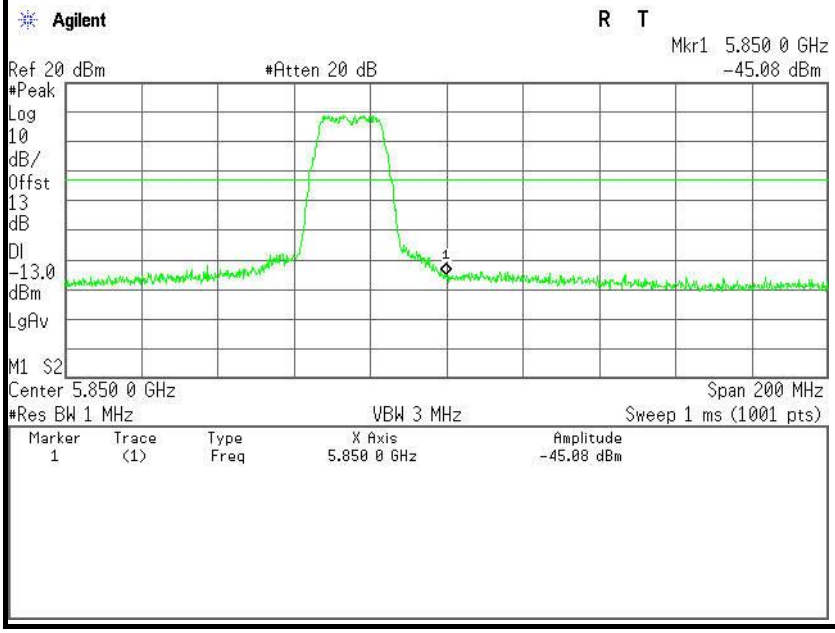
CH Low

Antenna 1



CH High

Antenna 1



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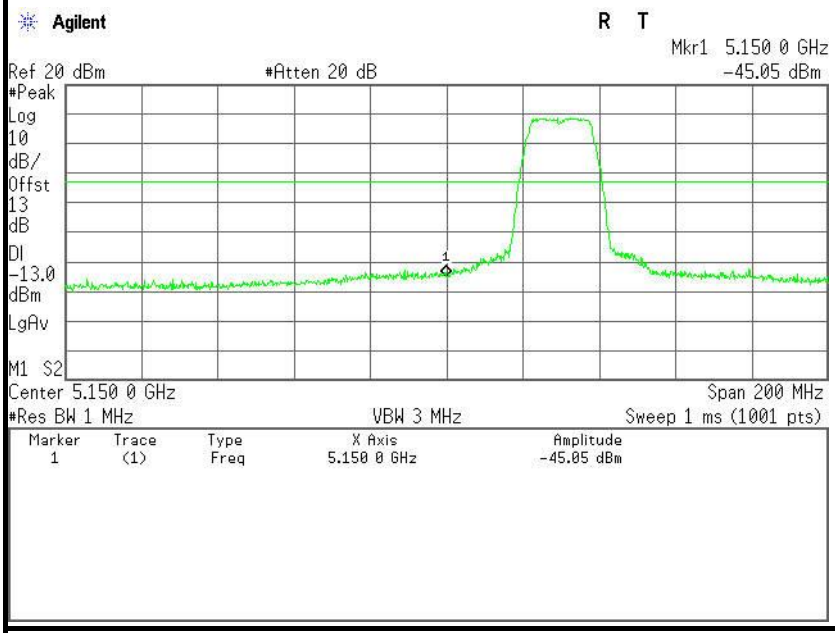
IEEE 802.11a mode / 5180 ~ 5240MHz

CH Low

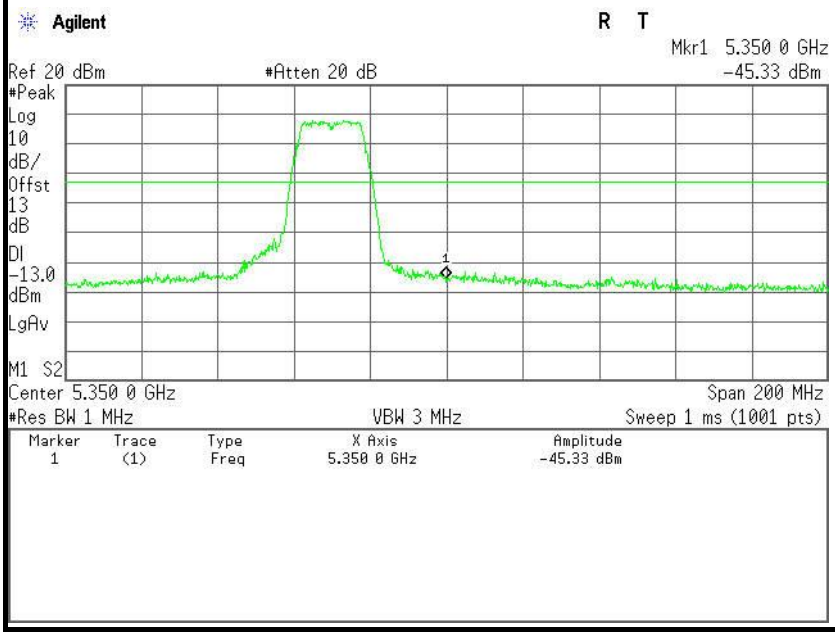
Antenna 2



IEEE 802.11a mode / 5260~ 5320MHz

CH High

Antenna 2



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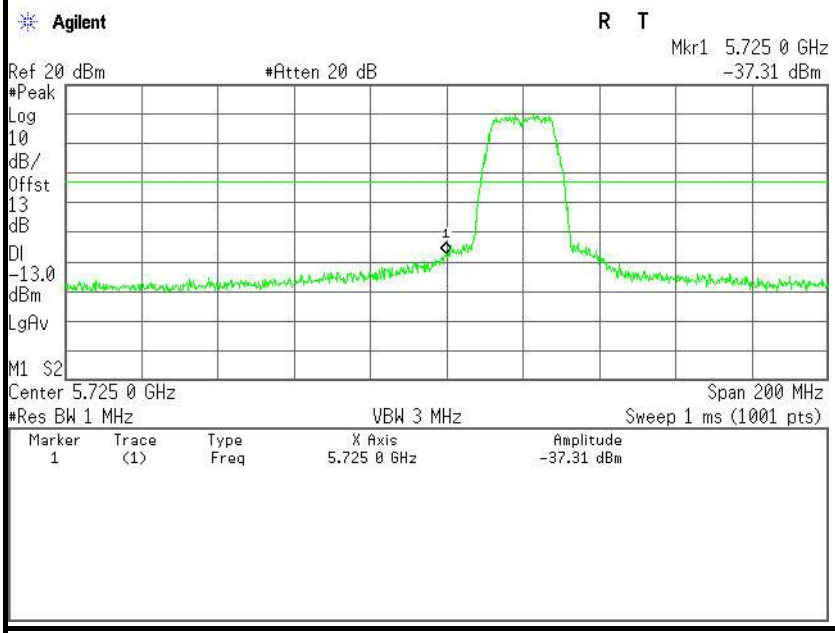
IEEE 802.11a mode / 5745 ~ 5825MHz

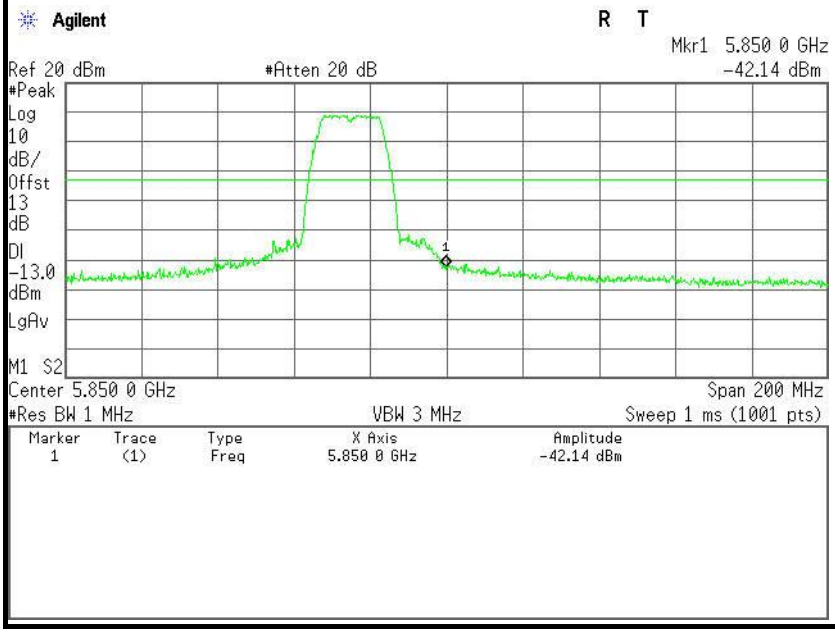
CH Low

Antenna 2



CH High

Antenna 2



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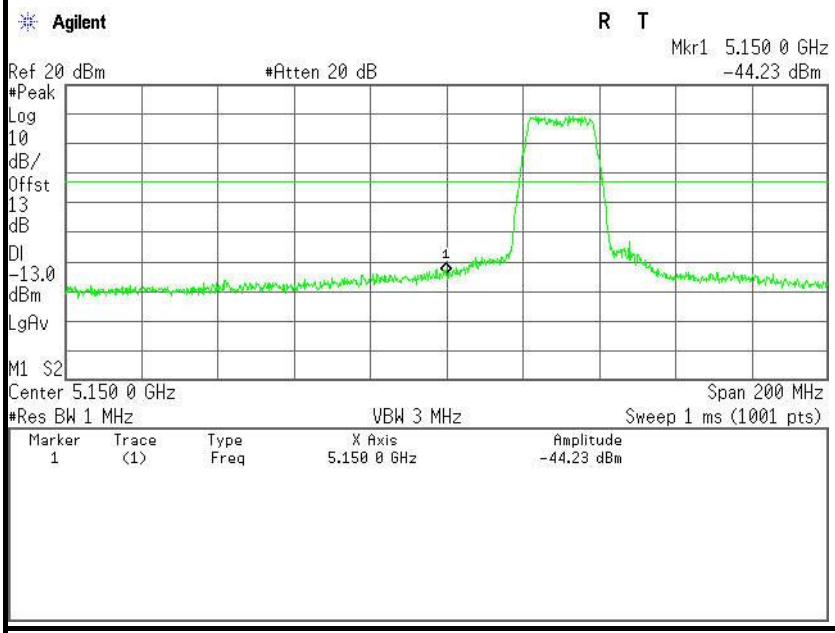
IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

CH Low

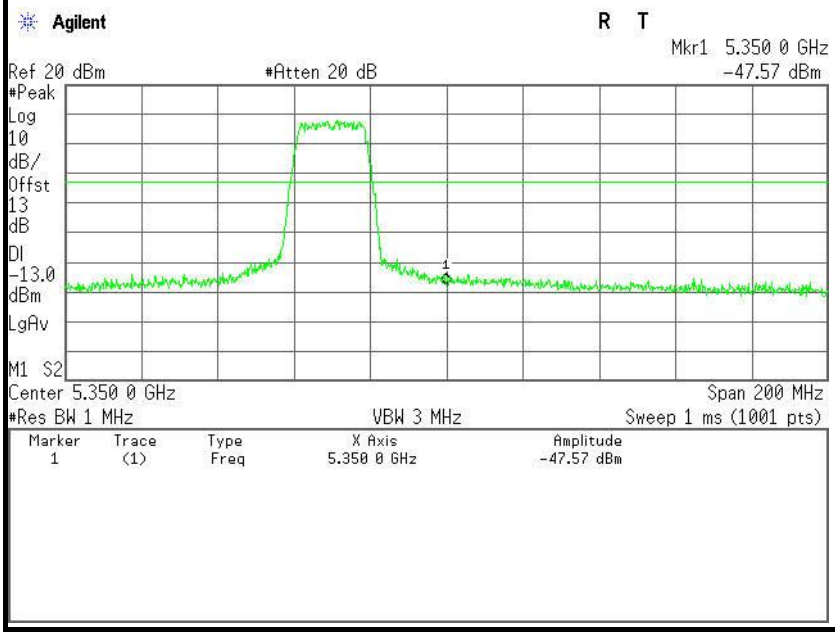
Antenna 1



IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz

CH High

Antenna 1



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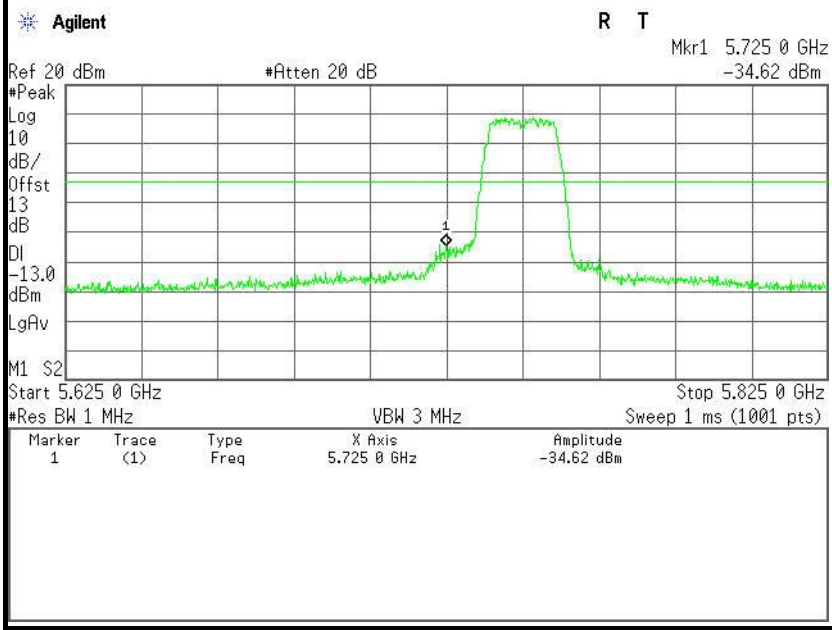
IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

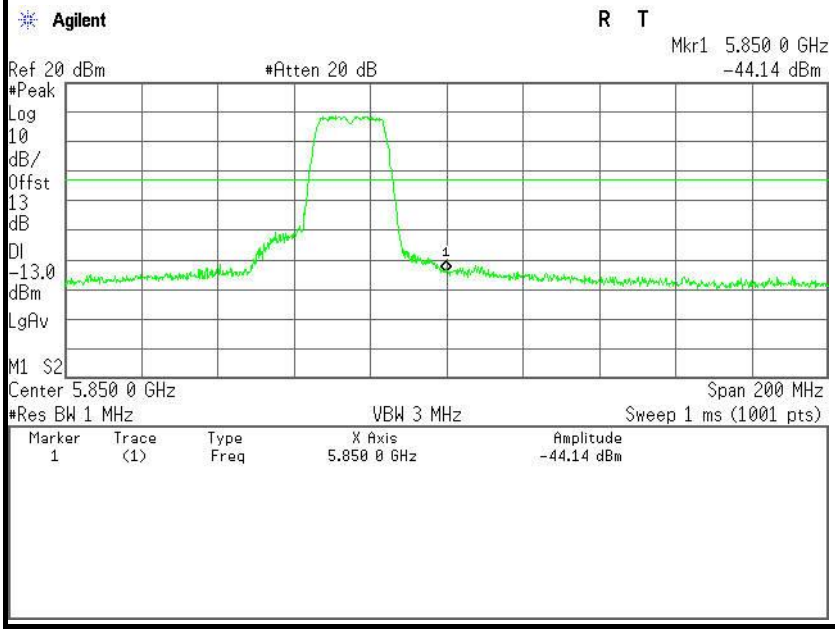
CH Low

Antenna 1



CH High

Antenna 1



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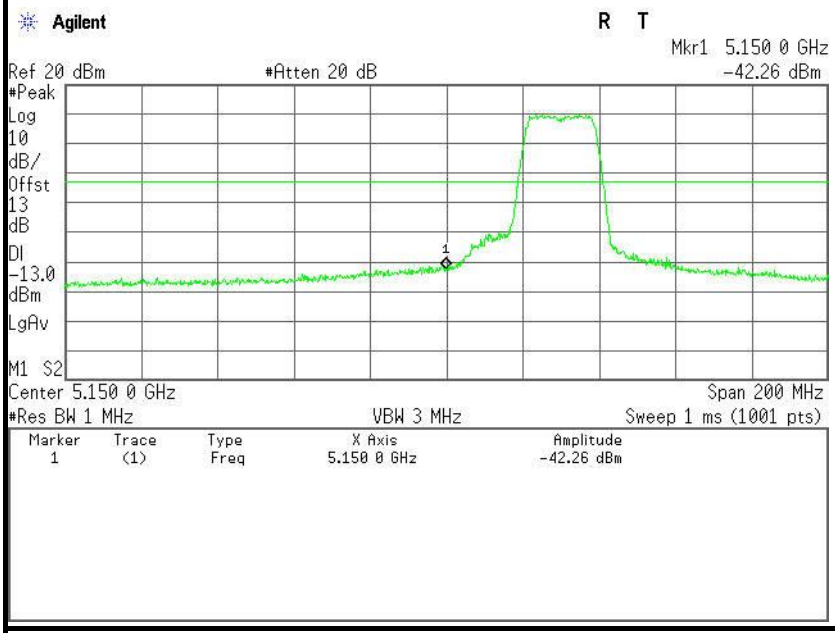
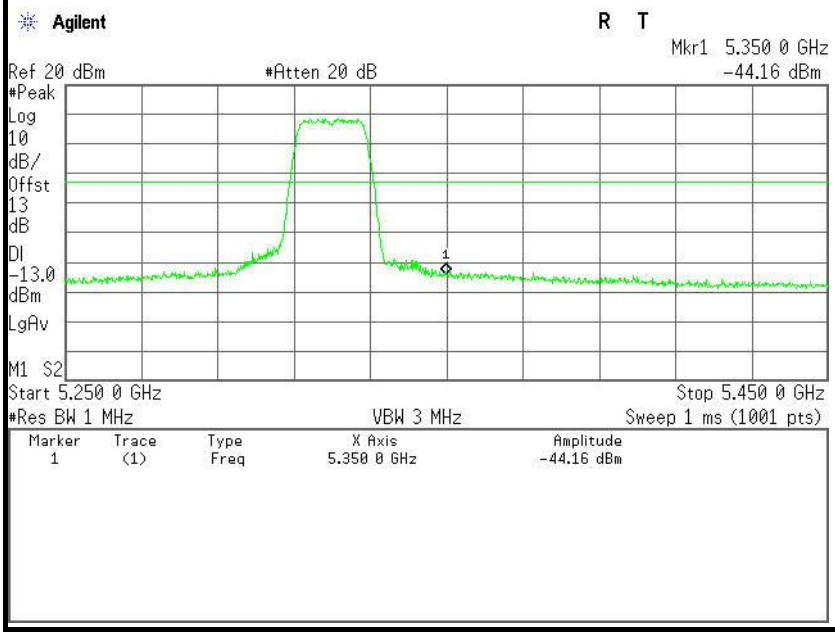
IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz
CH Low
Antenna 2



IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz
CH High
Antenna 2



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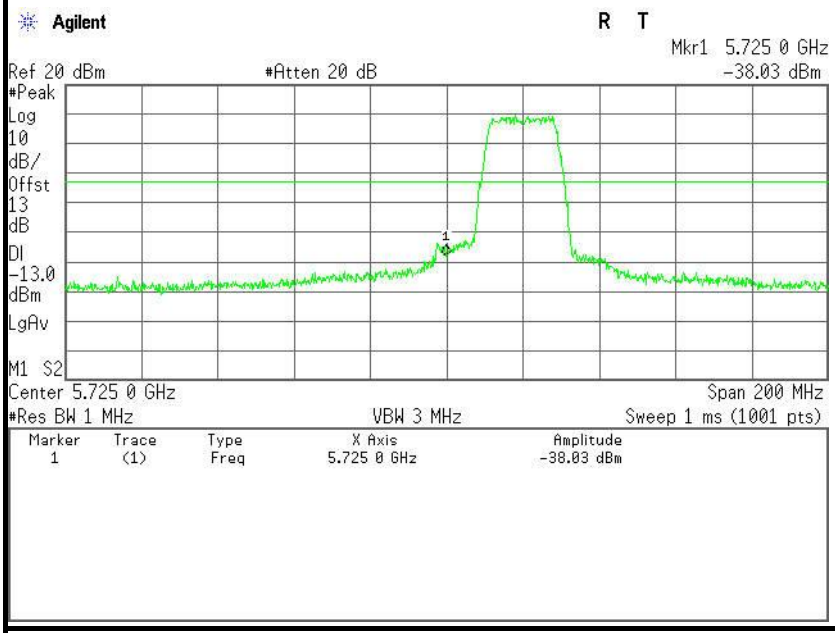
IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

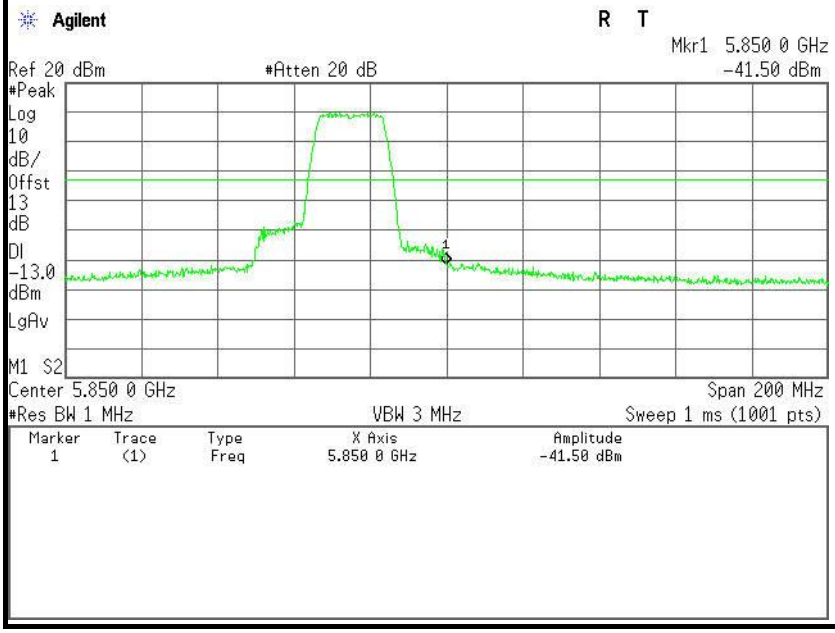
CH Low

Antenna 2



CH High

Antenna 2



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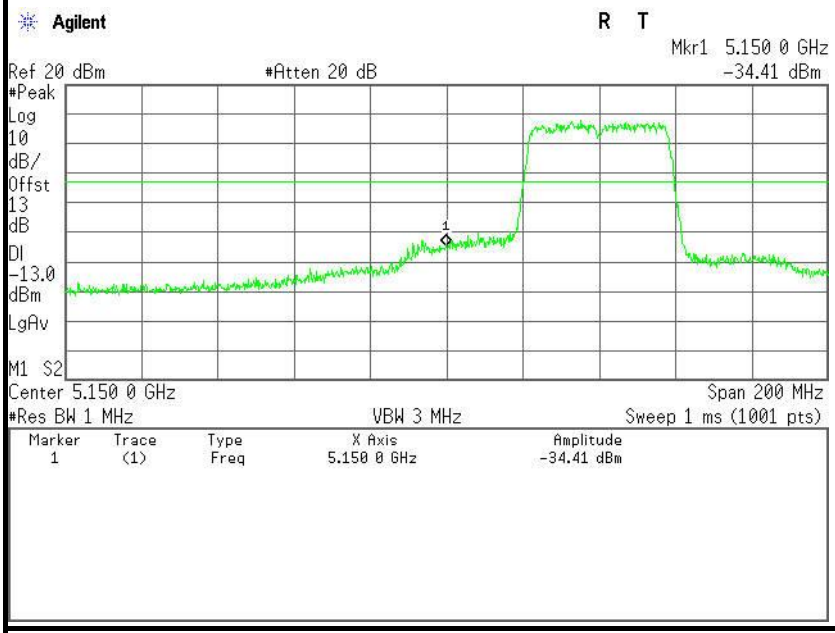
IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

CH Low

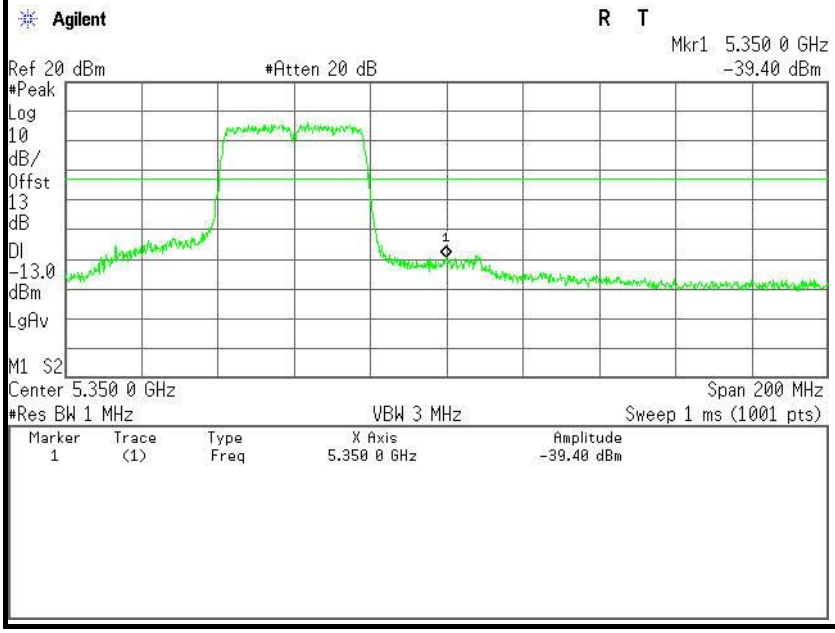
Antenna 1



IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

CH High

Antenna 1



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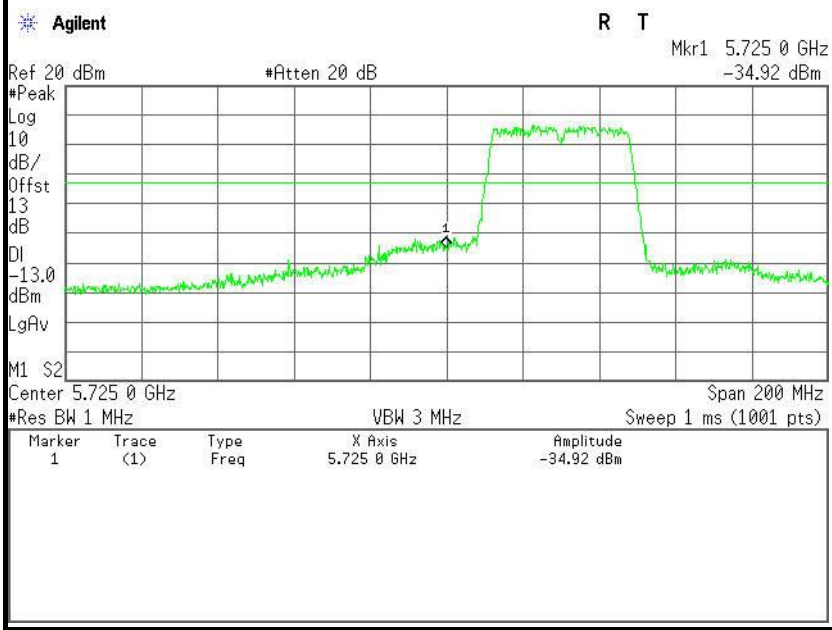
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

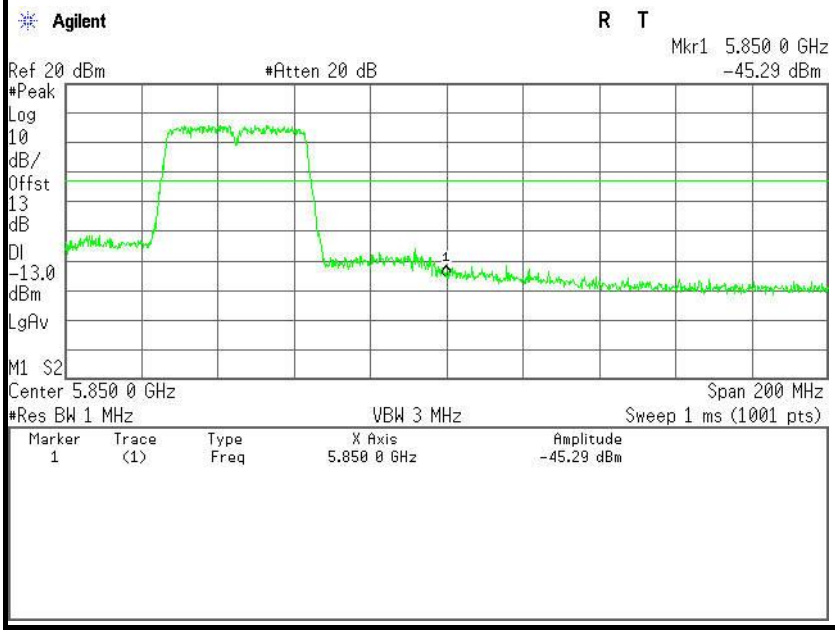
CH Low

Antenna 1



CH High

Antenna 1



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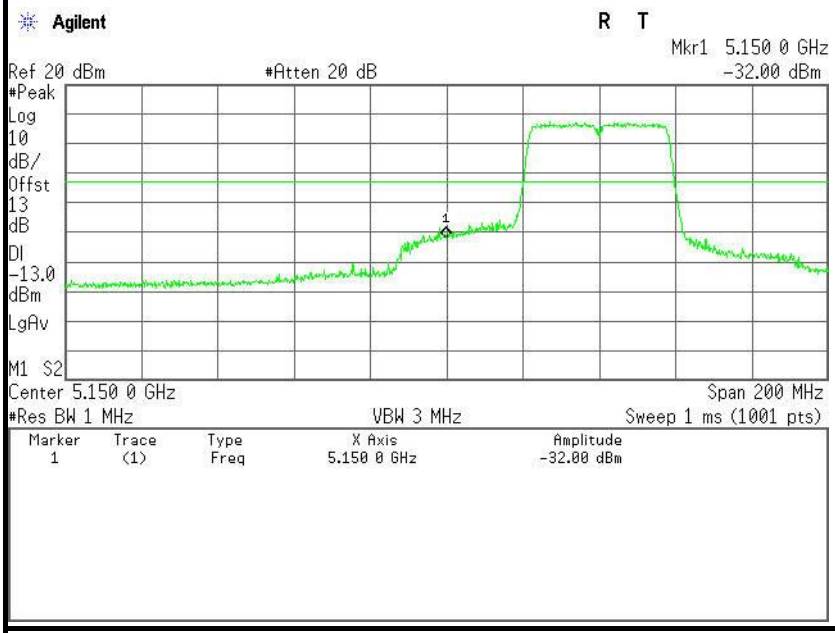
IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

CH Low

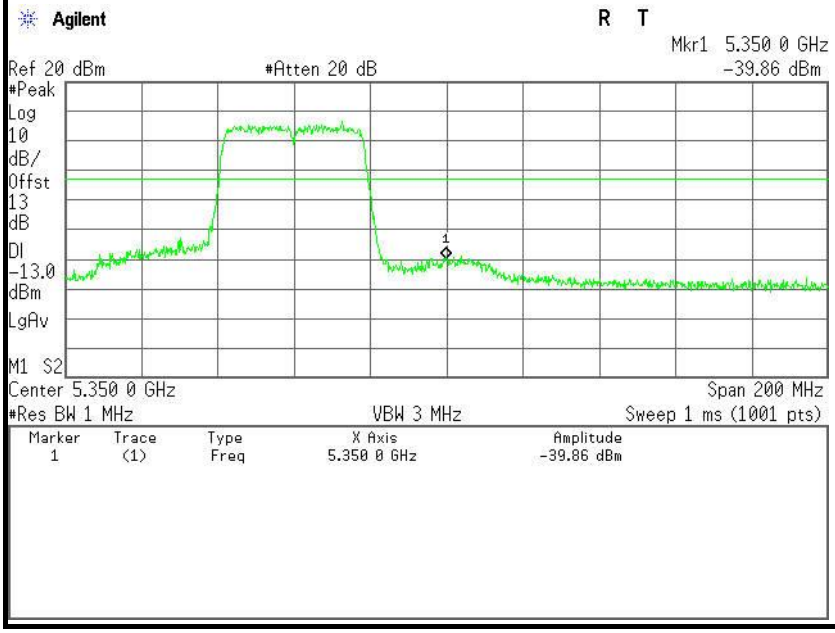
Antenna 2



IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

CH High

Antenna 2



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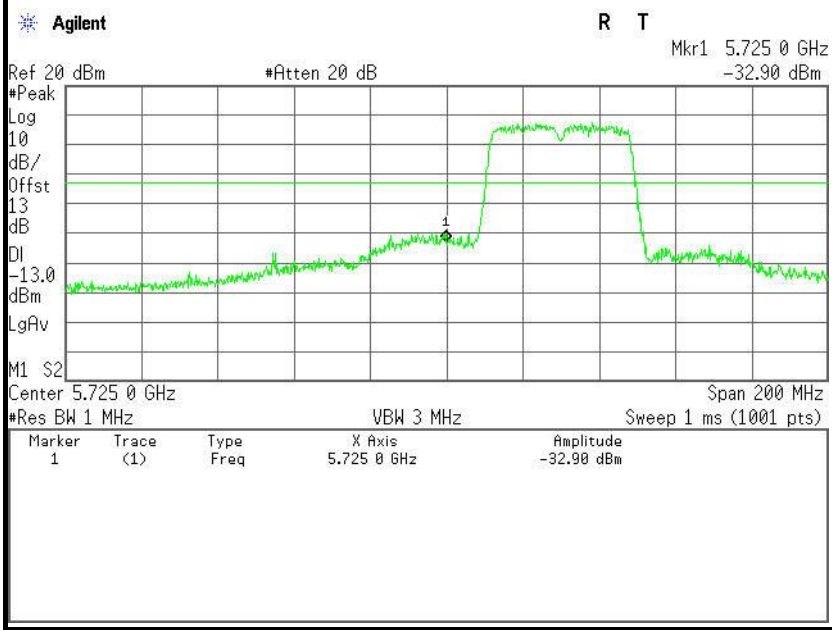
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

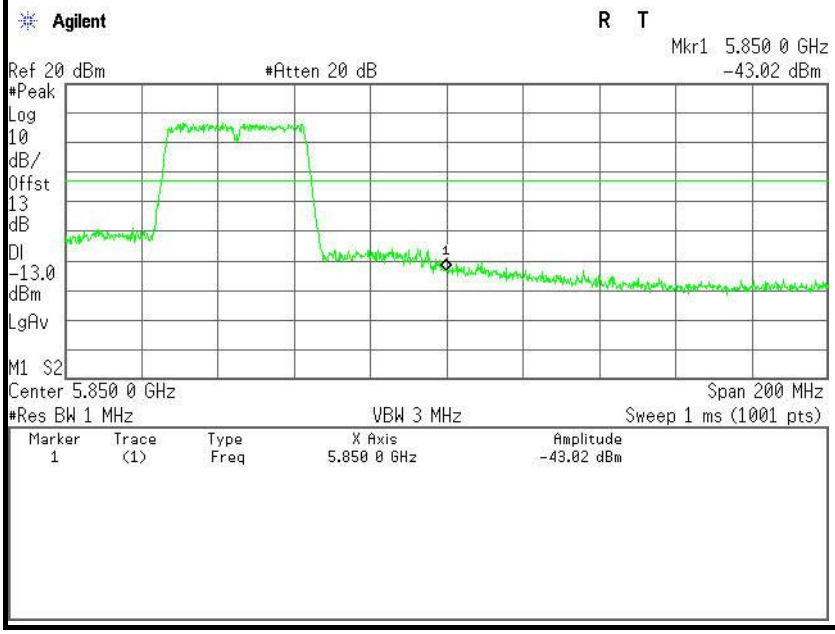
CH Low

Antenna 2



CH High

Antenna 2



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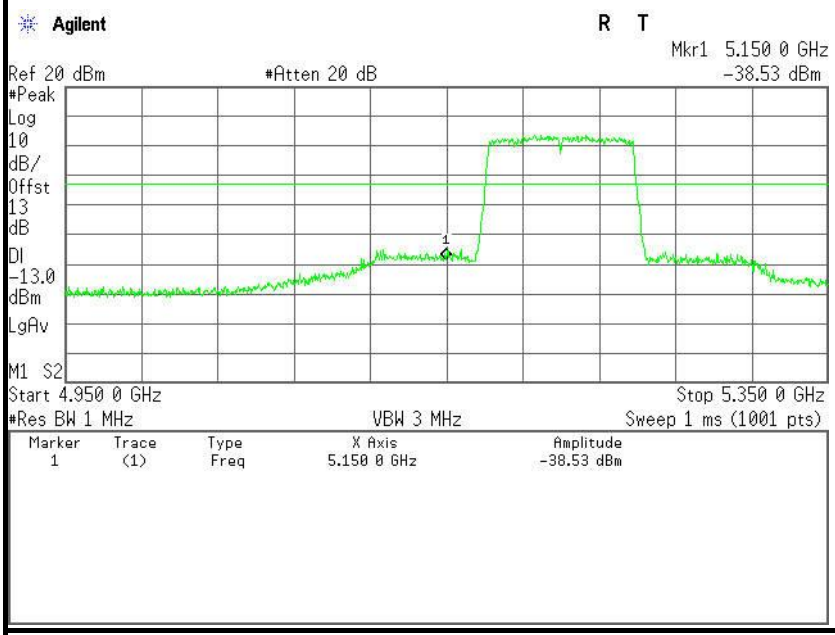
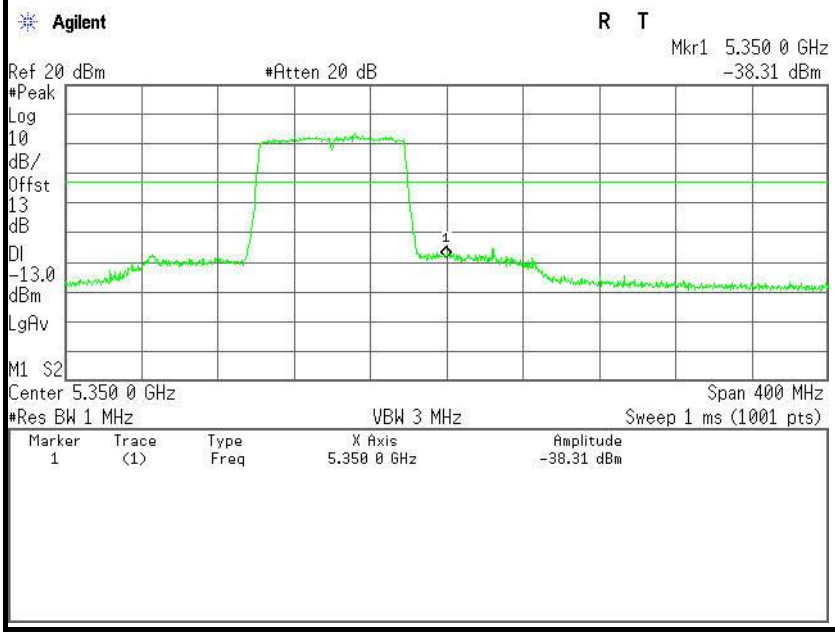
IEEE 802.11ac 80 mode / 5210MHz

Antenna 1



IEEE 802.11ac 80 mode / 5290MHz

Antenna 1



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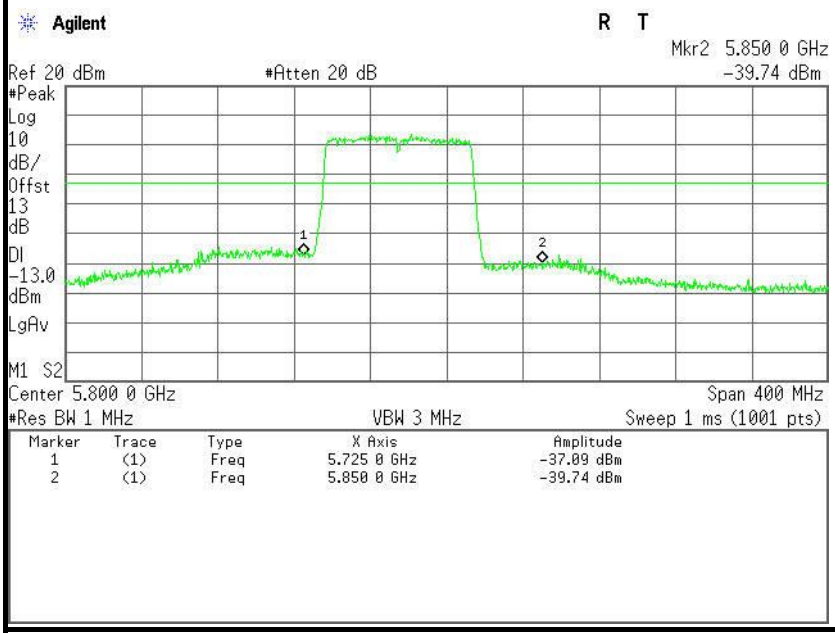
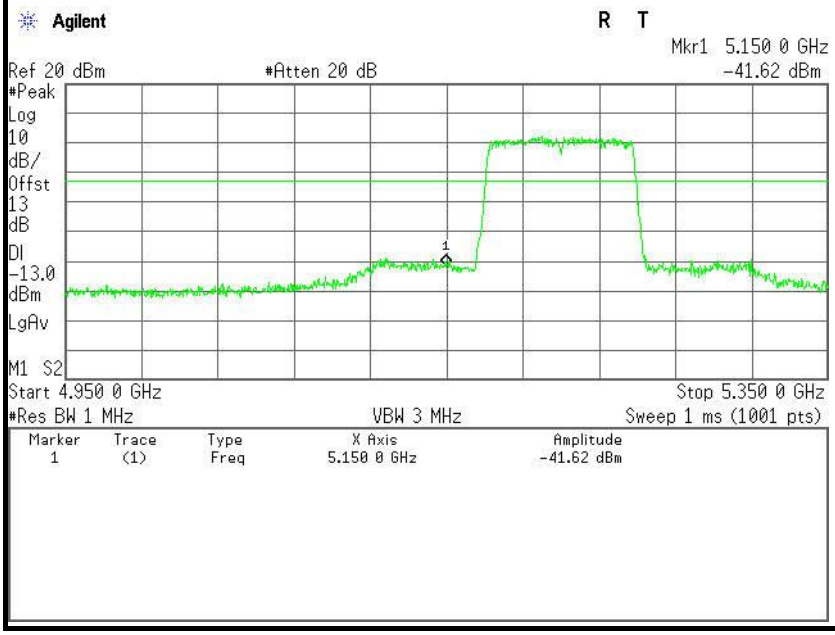
IEEE 802.11ac 80 mode / 5775MHz

Antenna 1



IEEE 802.11ac 80 mode / 5210MHz

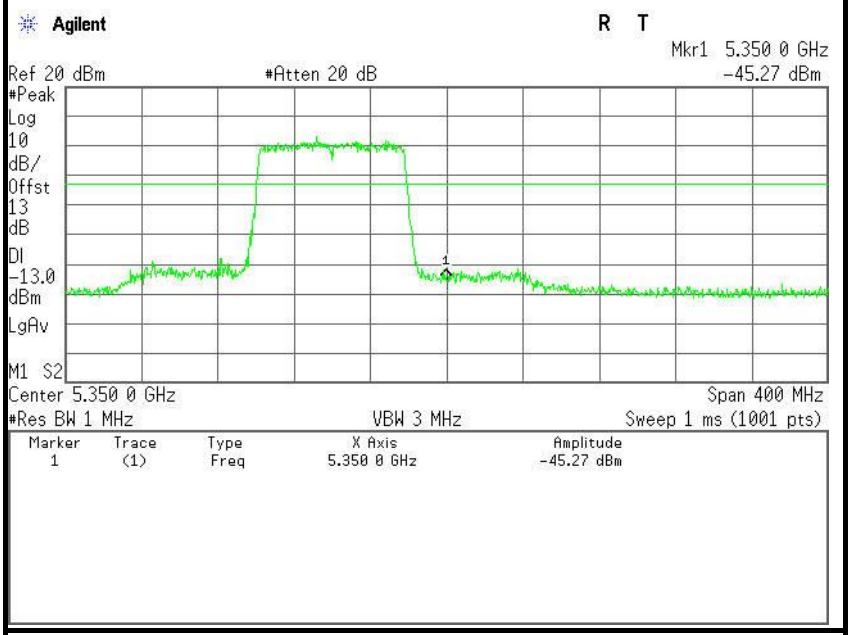
Antenna 2



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

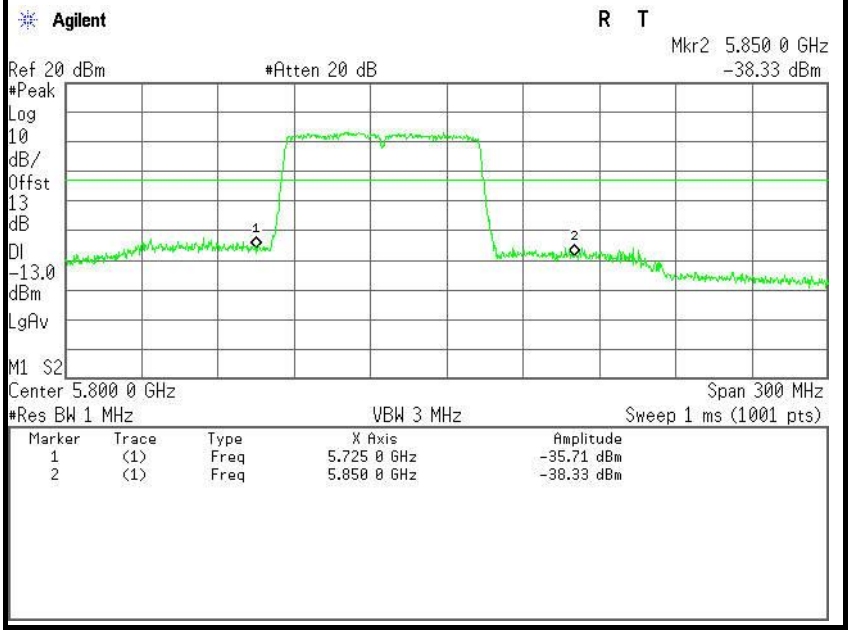
IEEE 802.11ac 80 mode / 5290MHz

Antenna 2



IEEE 802.11ac 80 mode / 5775MHz

Antenna 2



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6.8 POWERLINE CONDUCTED EMISSIONS

6.8.1 LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

** Decreases with the logarithm of the frequency.*

6.8.2 TEST INSTRUMENTS

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/28/2015	02/27/2016
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	02/28/2015	02/27/2016
LISN	EMCO	3825/2	8901-1459	02/28/2015	02/27/2016
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	02/28/2015	02/27/2016
Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE			

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

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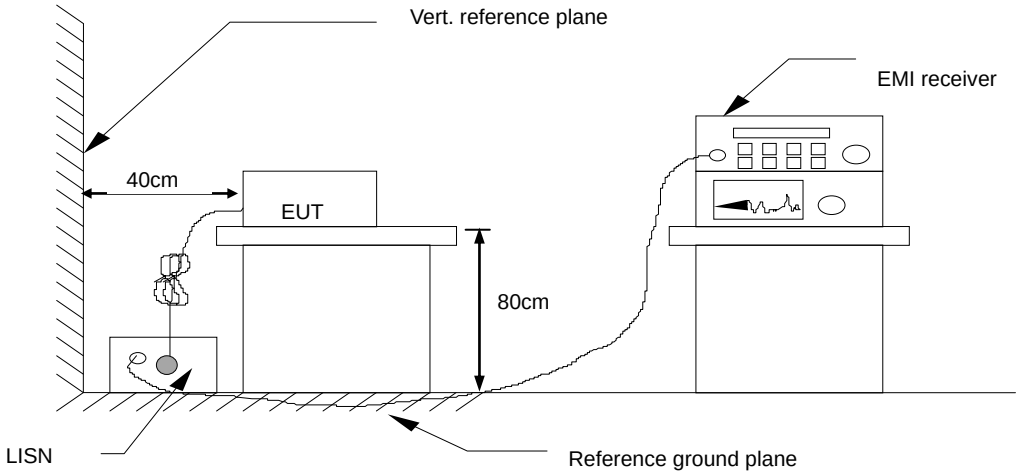
6.8.3 TEST CONFIGURATION



6.8.4 TEST PROCEDURE

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

6.8.5 DATA SAMPLE

Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

Factor = Insertion loss of LISN + Cable Loss
Result = Quasi-peak Reading/ Average Reading + Factor
Limit = Limit stated in standard
Margin = Result (dBuV) – Limit (dBuV)

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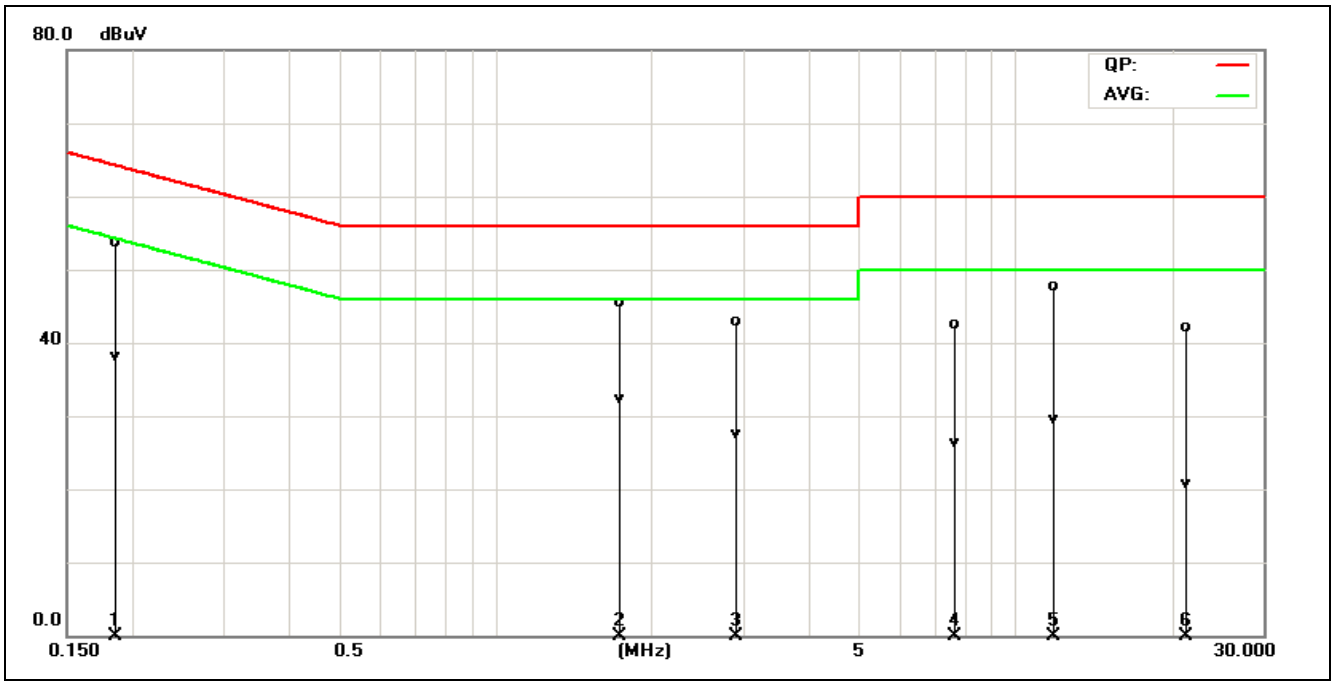
6.8.6 TEST RESULTS

Model No.	LifeShareTV-Pro-1.0	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Candy Xia	Line	L1
Test Date	September 24, 2015		

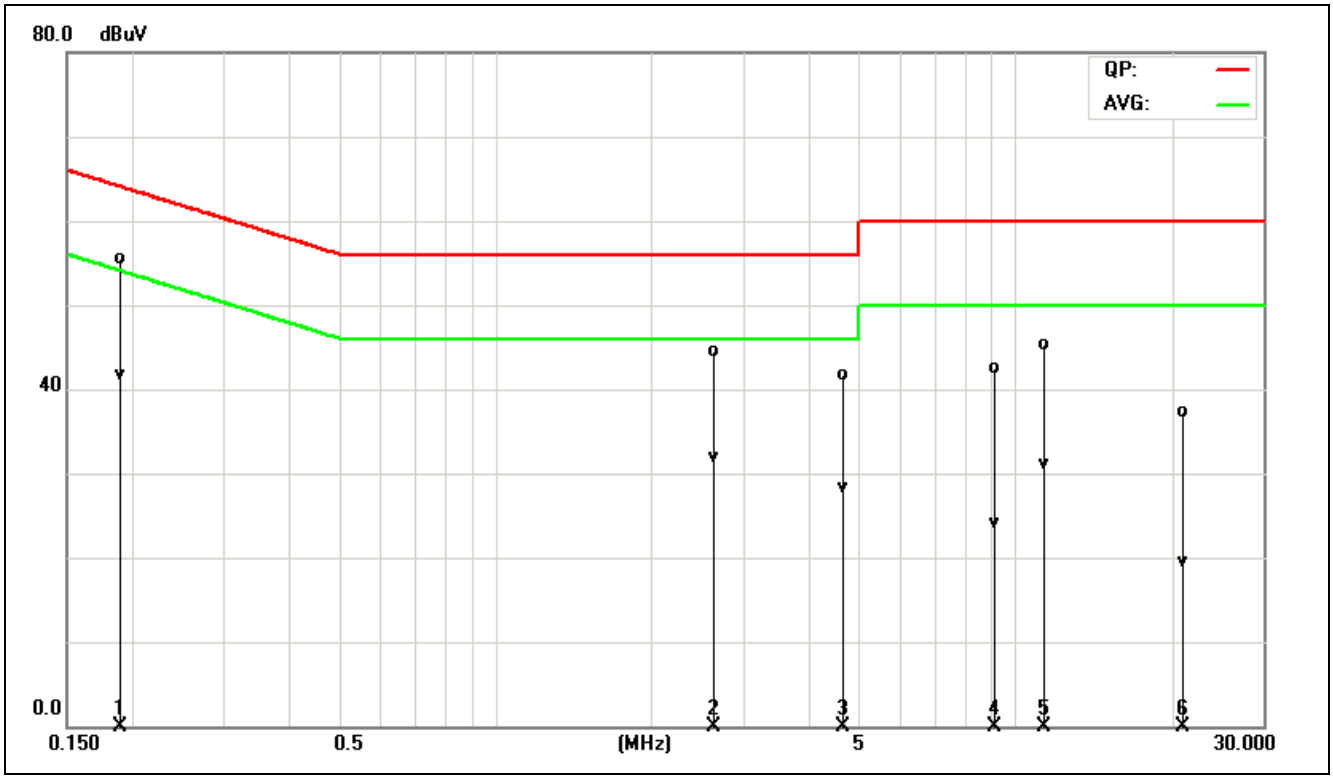


Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)	Line (L1/L2)
0.1860	43.98	28.48	9.66	53.64	38.14	64.21	54.21	-10.57	-16.07	Pass	L1
1.7340	35.76	22.61	9.72	45.48	32.33	56.00	46.00	-10.52	-13.67	Pass	L1
2.8900	33.27	17.77	9.71	42.98	27.48	56.00	46.00	-13.02	-18.52	Pass	L1
7.6380	32.70	16.44	9.80	42.50	26.24	60.00	50.00	-17.50	-23.76	Pass	L1
11.8060	37.91	19.62	9.88	47.79	29.50	60.00	50.00	-12.21	-20.50	Pass	L1
21.2060	32.23	10.91	9.84	42.07	20.75	60.00	50.00	-17.93	-29.25	Pass	L1

Remark: *L1 = Line One (Live Line)*

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Model No.	LifeShareTV-Pro-1.0	**RBW,VBW**	9 kHz
Environmental Conditions	22°C, 45% RH	**Test Mode**	Mode 1
Tested by	Candy Xia	**Line**	L1
Test Date	September 24, 2015		



Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)	**Line (L1/L2)**
0.1900	45.71	31.91	9.79	55.50	41.70	64.03	54.04	-8.53	-12.34	Pass	L2
2.6180	34.77	22.09	9.74	44.51	31.83	56.00	46.00	-11.49	-14.17	Pass	L2
4.6540	31.86	18.51	9.77	41.63	28.28	56.00	46.00	-14.37	-17.72	Pass	L2
9.0780	32.73	14.22	9.84	42.57	24.06	60.00	50.00	-17.43	-25.94	Pass	L2
11.3420	35.53	21.25	9.83	45.36	31.08	60.00	50.00	-14.64	-18.92	Pass	L2
21.0100	27.66	9.67	9.74	37.40	19.41	60.00	50.00	-22.60	-30.59	Pass	L2

Remark: *L2 = Line Two (Neutral Line)*

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6.9 FREQUENCY STABILITY

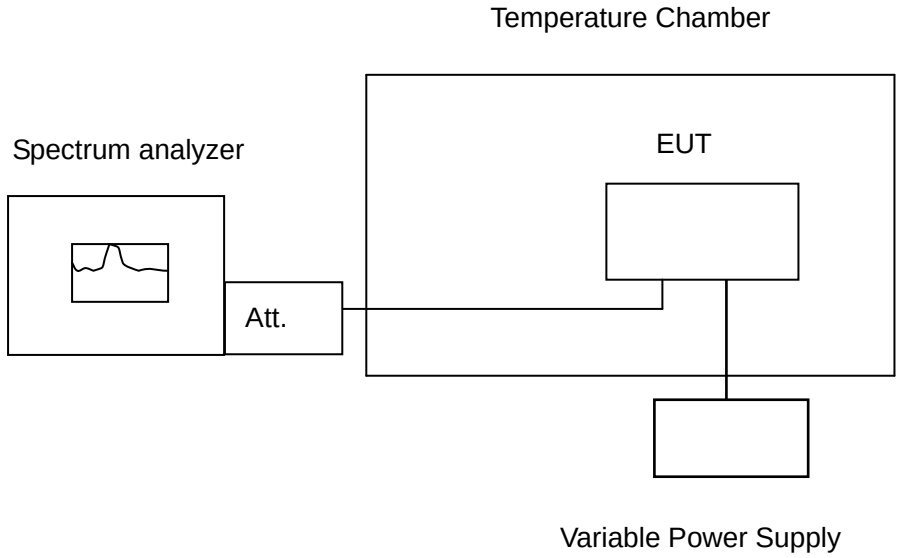
6.9.1 LIMIT

According to §15.407(g), 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 operational description.

6.9.2 TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	02/28/2015	02/27/2016
DC Power Supply	DAZHENG	PS-605D	20018978	N.C.R	N.C.R
AC POWER SOUCE	UMART	HPA1010	N/A	N.C.R	N.C.R
Power Meter	Anritsu	ML2495A	1204003	02/28/2015	02/27/2016
Power Sensor	Anritsu	MA2411B	1126150	02/28/2015	02/27/2016
Temperature Chamber	TERCHY	MHG-800N	E21104	11/18/2014	11/17/2015
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2015	02/27/2016

6.9.3 TEST CONFIGURATION



Remark: *Measurement setup for testing on Antenna connector*

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6.9.4 TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20^{o}C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –20^{o}C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10^{o}C increased per stage until the highest temperature of +50^{o}C reached.

6.9.5TEST RESULTS

No non-compliance noted.

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Test Data
Antenna 1

IEEE 802.11a MHz mode / 5180 ~ 5240MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.974901	5150-5250	PASS
40	120	5179.999632	5150-5250	PASS
30	120	5179.975927	5150-5250	PASS
20	120	5179.718220	5150-5250	PASS
10	120	5179.980538	5150-5250	PASS
0	120	5179.991579	5150-5250	PASS
-10	120	5179.966361	5150-5250	PASS
-20	120	5179.990402	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.987075	5150-5250	PASS
	120	5179.718220	5150-5250	PASS
	132	5179.954481	5150-5250	PASS

IEEE 802.11a MHz mode / 5180 ~ 5240MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5239.992723	5150-5250	PASS
40	120	5239.968013	5150-5250	PASS
30	120	5239.995550	5150-5250	PASS
20	120	5239.979189	5150-5250	PASS
10	120	5239.978473	5150-5250	PASS
0	120	5239.981336	5150-5250	PASS
-10	120	5239.963507	5150-5250	PASS
-20	120	5239.950673	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.965645	5150-5250	PASS
	120	5239.979189	5150-5250	PASS
	132	5239.952921	5150-5250	PASS

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IEEE 802.11a mode / 5260 ~ 5320MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5259.975161	5250-5350	PASS
40	120	5259.979068	5250-5350	PASS
30	120	5259.981846	5250-5350	PASS
20	120	5259.997193	5250-5350	PASS
10	120	5259.956899	5250-5350	PASS
0	120	5259.957341	5250-5350	PASS
-10	120	5259.970747	5250-5350	PASS
-20	120	5259.960387	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5259.961714	5250-5350	PASS
	120	5259.997193	5250-5350	PASS
	132	5259.982348	5250-5350	PASS

IEEE 802.11a mode / 5260 ~ 5320MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5319.952833	5250-5350	PASS
40	120	5319.999857	5250-5350	PASS
30	120	5319.998539	5250-5350	PASS
20	120	5319.997262	5250-5350	PASS
10	120	5319.971743	5250-5350	PASS
0	120	5319.994392	5250-5350	PASS
-10	120	5319.993884	5250-5350	PASS
-20	120	5319.969485	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5319.969794	5250-5350	PASS
	120	5319.997262	5250-5350	PASS
	132	5319.958553	5250-5350	PASS

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IEEE 802.11a mode / 5745 ~ 5825MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.984438	5725-5850	PASS
40	120	5744.985036	5725-5850	PASS
30	120	5744.982844	5725-5850	PASS
20	120	5744.998137	5725-5850	PASS
10	120	5744.978682	5725-5850	PASS
0	120	5744.992486	5725-5850	PASS
-10	120	5744.961703	5725-5850	PASS
-20	120	5744.965867	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.957042	5725-5850	PASS
	120	5744.998137	5725-5850	PASS
	132	5744.957073	5725-5850	PASS

IEEE 802.11a mode / 5745 ~ 5825MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.981395	5725-5850	PASS
40	120	5824.952580	5725-5850	PASS
30	120	5824.950803	5725-5850	PASS
20	120	5824.998957	5725-5850	PASS
10	120	5824.972200	5725-5850	PASS
0	120	5824.962990	5725-5850	PASS
-10	120	5824.961046	5725-5850	PASS
-20	120	5824.966132	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.999057	5725-5850	PASS
	120	5824.998957	5725-5850	PASS
	132	5824.950299	5725-5850	PASS

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Antenna 2

IEEE 802.11a MHz mode / 5180 ~ 5240MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.955244	5150-5250	PASS
40	120	5179.965897	5150-5250	PASS
30	120	5179.958877	5150-5250	PASS
20	120	5179.728220	5150-5250	PASS
10	120	5179.990913	5150-5250	PASS
0	120	5179.959106	5150-5250	PASS
-10	120	5179.950719	5150-5250	PASS
-20	120	5179.979673	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.968806	5150-5250	PASS
	120	5179.728220	5150-5250	PASS
	132	5179.952063	5150-5250	PASS

IEEE 802.11a MHz mode / 5180 ~ 5240MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5239.949598	5150-5250	PASS
40	120	5239.953110	5150-5250	PASS
30	120	5239.971472	5150-5250	PASS
20	120	5239.978289	5150-5250	PASS
10	120	5239.956681	5150-5250	PASS
0	120	5239.969968	5150-5250	PASS
-10	120	5239.976471	5150-5250	PASS
-20	120	5239.983325	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.958917	5150-5250	PASS
	120	5239.978289	5150-5250	PASS
	132	5239.961160	5150-5250	PASS

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IEEE 802.11a mode / 5260 ~ 5320MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5259.983690	5250-5350	PASS
40	120	5259.967367	5250-5350	PASS
30	120	5259.994315	5250-5350	PASS
20	120	5259.987293	5250-5350	PASS
10	120	5259.997769	5250-5350	PASS
0	120	5259.956366	5250-5350	PASS
-10	120	5259.951388	5250-5350	PASS
-20	120	5259.964094	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5259.958120	5250-5350	PASS
	120	5259.987293	5250-5350	PASS
	132	5259.999249	5250-5350	PASS

IEEE 802.11a mode / 5260 ~ 5320MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5319.988554	5250-5350	PASS
40	120	5319.985784	5250-5350	PASS
30	120	5319.955535	5250-5350	PASS
20	120	5319.997384	5250-5350	PASS
10	120	5319.958253	5250-5350	PASS
0	120	5319.963473	5250-5350	PASS
-10	120	5319.979331	5250-5350	PASS
-20	120	5319.971117	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5319.988451	5250-5350	PASS
	120	5319.997384	5250-5350	PASS
	132	5319.975189	5250-5350	PASS

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IEEE 802.11a mode / 5745 ~ 5825MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.965028	5725-5850	PASS
40	120	5744.961998	5725-5850	PASS
30	120	5744.968415	5725-5850	PASS
20	120	5744.998337	5725-5850	PASS
10	120	5744.967752	5725-5850	PASS
0	120	5744.978338	5725-5850	PASS
-10	120	5744.985046	5725-5850	PASS
-20	120	5744.973259	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.994705	5725-5850	PASS
	120	5744.998337	5725-5850	PASS
	132	5744.990747	5725-5850	PASS

IEEE 802.11a mode / 5745 ~ 5825MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.984811	5725-5850	PASS
40	120	5824.996548	5725-5850	PASS
30	120	5824.953715	5725-5850	PASS
20	120	5824.998967	5725-5850	PASS
10	120	5824.983987	5725-5850	PASS
0	120	5824.955352	5725-5850	PASS
-10	120	5824.965911	5725-5850	PASS
-20	120	5824.974033	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.986177	5725-5850	PASS
	120	5824.998967	5725-5850	PASS
	132	5824.961215	5725-5850	PASS

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Antenna 1

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.976941	5150-5250	PASS
40	120	5179.958540	5150-5250	PASS
30	120	5179.962144	5150-5250	PASS
20	120	5179.997226	5150-5250	PASS
10	120	5179.960533	5150-5250	PASS
0	120	5179.992772	5150-5250	PASS
-10	120	5179.954452	5150-5250	PASS
-20	120	5179.951433	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.960024	5150-5250	PASS
	120	5179.997226	5150-5250	PASS
	132	5179.993614	5150-5250	PASS

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5239.987543	5150-5250	PASS
40	120	5239.991186	5150-5250	PASS
30	120	5239.960416	5150-5250	PASS
20	120	5239.997693	5150-5250	PASS
10	120	5239.963296	5150-5250	PASS
0	120	5239.968502	5150-5250	PASS
-10	120	5239.958480	5150-5250	PASS
-20	120	5239.972507	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.994820	5150-5250	PASS
	120	5239.997693	5150-5250	PASS
	132	5239.958577	5150-5250	PASS

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IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5259.995794	5250-5350	PASS
40	120	5259.968255	5250-5350	PASS
30	120	5259.963809	5250-5350	PASS
20	120	5259.998182	5250-5350	PASS
10	120	5259.964596	5250-5350	PASS
0	120	5259.981786	5250-5350	PASS
-10	120	5259.969430	5250-5350	PASS
-20	120	5259.954171	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5259.950527	5250-5350	PASS
	120	5259.998182	5250-5350	PASS
	132	5259.958326	5250-5350	PASS

IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5319.986494	5250-5350	PASS
40	120	5319.964987	5250-5350	PASS
30	120	5319.949013	5250-5350	PASS
20	120	5319.998228	5250-5350	PASS
10	120	5319.967020	5250-5350	PASS
0	120	5319.986093	5250-5350	PASS
-10	120	5319.994388	5250-5350	PASS
-20	120	5319.955111	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5319.972239	5250-5350	PASS
	120	5319.998228	5250-5350	PASS
	132	5319.984803	5250-5350	PASS

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IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.992577	5725-5850	PASS
40	120	5744.970776	5725-5850	PASS
30	120	5744.989612	5725-5850	PASS
20	120	5744.998210	5725-5850	PASS
10	120	5744.985630	5725-5850	PASS
0	120	5744.958711	5725-5850	PASS
-10	120	5744.987554	5725-5850	PASS
-20	120	5744.996567	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.964755	5725-5850	PASS
	120	5744.998210	5725-5850	PASS
	132	5744.968034	5725-5850	PASS

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.973481	5725-5850	PASS
40	120	5824.952580	5725-5850	PASS
30	120	5824.979675	5725-5850	PASS
20	120	5824.997898	5725-5850	PASS
10	120	5824.965752	5725-5850	PASS
0	120	5824.954247	5725-5850	PASS
-10	120	5824.951040	5725-5850	PASS
-20	120	5824.956103	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.998167	5725-5850	PASS
	120	5824.997898	5725-5850	PASS
	132	5824.957866	5725-5850	PASS

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Antenna 2

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.956857	5150-5250	PASS
40	120	5179.980781	5150-5250	PASS
30	120	5179.976328	5150-5250	PASS
20	120	5179.997316	5150-5250	PASS
10	120	5179.966637	5150-5250	PASS
0	120	5179.958589	5150-5250	PASS
-10	120	5179.977536	5150-5250	PASS
-20	120	5179.969372	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.982793	5150-5250	PASS
	120	5179.997316	5150-5250	PASS
	132	5179.995290	5150-5250	PASS

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5239.970010	5150-5250	PASS
40	120	5239.990434	5150-5250	PASS
30	120	5239.949722	5150-5250	PASS
20	120	5239.997703	5150-5250	PASS
10	120	5239.990677	5150-5250	PASS
0	120	5239.962816	5150-5250	PASS
-10	120	5239.969553	5150-5250	PASS
-20	120	5239.964208	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.969369	5150-5250	PASS
	120	5239.997703	5150-5250	PASS
	132	5239.958146	5150-5250	PASS

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IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5259.975823	5250-5350	PASS
40	120	5259.978632	5250-5350	PASS
30	120	5259.955628	5250-5350	PASS
20	120	5259.997282	5250-5350	PASS
10	120	5259.964464	5250-5350	PASS
0	120	5259.998274	5250-5350	PASS
-10	120	5259.998081	5250-5350	PASS
-20	120	5259.985257	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5259.971265	5250-5350	PASS
	120	5259.997282	5250-5350	PASS
	132	5259.977317	5250-5350	PASS

IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5319.978734	5250-5350	PASS
40	120	5319.981288	5250-5350	PASS
30	120	5319.987249	5250-5350	PASS
20	120	5319.998148	5250-5350	PASS
10	120	5319.960759	5250-5350	PASS
0	120	5319.961242	5250-5350	PASS
-10	120	5319.970362	5250-5350	PASS
-20	120	5319.953538	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5319.972856	5250-5350	PASS
	120	5319.998148	5250-5350	PASS
	132	5319.984541	5250-5350	PASS

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IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.964627	5725-5850	PASS
40	120	5744.953145	5725-5850	PASS
30	120	5744.998666	5725-5850	PASS
20	120	5744.998240	5725-5850	PASS
10	120	5744.964849	5725-5850	PASS
0	120	5744.997475	5725-5850	PASS
-10	120	5744.974157	5725-5850	PASS
-20	120	5744.994708	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.958239	5725-5850	PASS
	120	5744.998240	5725-5850	PASS
	132	5744.961041	5725-5850	PASS

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.955956	5725-5850	PASS
40	120	5824.949490	5725-5850	PASS
30	120	5824.956719	5725-5850	PASS
20	120	5824.999821	5725-5850	PASS
10	120	5824.969159	5725-5850	PASS
0	120	5824.975789	5725-5850	PASS
-10	120	5824.995963	5725-5850	PASS
-20	120	5824.957428	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.985797	5725-5850	PASS
	120	5824.999821	5725-5850	PASS
	132	5824.950771	5725-5850	PASS

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Antenna 1

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5189.982129	5150-5250	PASS
40	120	5189.958569	5150-5250	PASS
30	120	5189.969567	5150-5250	PASS
20	120	5189.998302	5150-5250	PASS
10	120	5189.987609	5150-5250	PASS
0	120	5189.957336	5150-5250	PASS
-10	120	5189.994474	5150-5250	PASS
-20	120	5189.980964	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5189.983851	5150-5250	PASS
	120	5189.998302	5150-5250	PASS
	132	5189.972620	5150-5250	PASS

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5229.959793	5150-5250	PASS
40	120	5229.969973	5150-5250	PASS
30	120	5229.949938	5150-5250	PASS
20	120	5229.998144	5150-5250	PASS
10	120	5229.964029	5150-5250	PASS
0	120	5229.980485	5150-5250	PASS
-10	120	5229.979438	5150-5250	PASS
-20	120	5229.961851	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5229.986438	5150-5250	PASS
	120	5229.998144	5150-5250	PASS
	132	5229.976312	5150-5250	PASS

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IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5269.988574	5250-5350	PASS
40	120	5269.978409	5250-5350	PASS
30	120	5269.990530	5250-5350	PASS
20	120	5269.998138	5250-5350	PASS
10	120	5269.991892	5250-5350	PASS
0	120	5269.982868	5250-5350	PASS
-10	120	5269.957711	5250-5350	PASS
-20	120	5269.968086	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5269.952378	5250-5350	PASS
	120	5269.998138	5250-5350	PASS
	132	5269.992360	5250-5350	PASS

IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5309.972334	5250-5350	PASS
40	120	5309.971553	5250-5350	PASS
30	120	5309.949877	5250-5350	PASS
20	120	5309.999088	5250-5350	PASS
10	120	5309.951784	5250-5350	PASS
0	120	5309.986345	5250-5350	PASS
-10	120	5309.953306	5250-5350	PASS
-20	120	5309.965367	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5309.981750	5250-5350	PASS
	120	5309.999088	5250-5350	PASS
	132	5309.951688	5250-5350	PASS

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IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5754.958986	5725-5850	PASS
40	120	5754.994760	5725-5850	PASS
30	120	5754.980603	5725-5850	PASS
20	120	5754.997986	5725-5850	PASS
10	120	5754.958581	5725-5850	PASS
0	120	5754.962659	5725-5850	PASS
-10	120	5754.966018	5725-5850	PASS
-20	120	5754.979142	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5754.973696	5725-5850	PASS
	120	5754.997986	5725-5850	PASS
	132	5754.997356	5725-5850	PASS

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5794.965461	5725-5850	PASS
40	120	5794.981639	5725-5850	PASS
30	120	5794.953889	5725-5850	PASS
20	120	5794.998205	5725-5850	PASS
10	120	5794.984306	5725-5850	PASS
0	120	5794.958907	5725-5850	PASS
-10	120	5794.991333	5725-5850	PASS
-20	120	5794.986865	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5794.985297	5725-5850	PASS
	120	5794.998205	5725-5850	PASS
	132	5794.961280	5725-5850	PASS

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Antenna 2

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5189.970942	5150-5250	PASS
40	120	5189.984205	5150-5250	PASS
30	120	5189.979406	5150-5250	PASS
20	120	5189.998406	5150-5250	PASS
10	120	5189.998522	5150-5250	PASS
0	120	5189.991575	5150-5250	PASS
-10	120	5189.961238	5150-5250	PASS
-20	120	5189.963650	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5189.997815	5150-5250	PASS
	120	5189.998406	5150-5250	PASS
	132	5189.974245	5150-5250	PASS

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5229.996667	5150-5250	PASS
40	120	5229.966397	5150-5250	PASS
30	120	5229.954782	5150-5250	PASS
20	120	5229.998214	5150-5250	PASS
10	120	5229.986214	5150-5250	PASS
0	120	5229.981659	5150-5250	PASS
-10	120	5229.977305	5150-5250	PASS
-20	120	5229.993505	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5229.979739	5150-5250	PASS
	120	5229.998214	5150-5250	PASS
	132	5229.986979	5150-5250	PASS

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IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5269.999356	5250-5350	PASS
40	120	5269.949168	5250-5350	PASS
30	120	5269.950664	5250-5350	PASS
20	120	5269.998162	5250-5350	PASS
10	120	5269.988877	5250-5350	PASS
0	120	5269.986768	5250-5350	PASS
-10	120	5269.996554	5250-5350	PASS
-20	120	5269.953380	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5269.997755	5250-5350	PASS
	120	5269.998162	5250-5350	PASS
	132	5269.995073	5250-5350	PASS

IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5309.982158	5250-5350	PASS
40	120	5309.960828	5250-5350	PASS
30	120	5309.984229	5250-5350	PASS
20	120	5309.998078	5250-5350	PASS
10	120	5309.977124	5250-5350	PASS
0	120	5309.966873	5250-5350	PASS
-10	120	5309.955604	5250-5350	PASS
-20	120	5309.952853	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5309.957859	5250-5350	PASS
	120	5309.998078	5250-5350	PASS
	132	5309.949876	5250-5350	PASS

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IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5754.955656	5725-5850	PASS
40	120	5754.956754	5725-5850	PASS
30	120	5754.975513	5725-5850	PASS
20	120	5754.997796	5725-5850	PASS
10	120	5754.968694	5725-5850	PASS
0	120	5754.949555	5725-5850	PASS
-10	120	5754.986157	5725-5850	PASS
-20	120	5754.988153	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5754.973784	5725-5850	PASS
	120	5754.997796	5725-5850	PASS
	132	5754.973009	5725-5850	PASS

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5794.967260	5725-5850	PASS
40	120	5794.997753	5725-5850	PASS
30	120	5794.957457	5725-5850	PASS
20	120	5794.998215	5725-5850	PASS
10	120	5794.994524	5725-5850	PASS
0	120	5794.991862	5725-5850	PASS
-10	120	5794.987693	5725-5850	PASS
-20	120	5794.961084	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5794.981932	5725-5850	PASS
	120	5794.998215	5725-5850	PASS
	132	5794.986716	5725-5850	PASS

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Antenna 1

IEEE 802.11ac 80 mode / 5210MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5209.979426	5150-5250	PASS
40	120	5209.986841	5150-5250	PASS
30	120	5209.979211	5150-5250	PASS
20	120	5209.997512	5150-5250	PASS
10	120	5209.972657	5150-5250	PASS
0	120	5209.999084	5150-5250	PASS
-10	120	5209.961919	5150-5250	PASS
-20	120	5209.982888	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5209.980252	5150-5250	PASS
	120	5209.997512	5150-5250	PASS
	132	5209.979257	5150-5250	PASS

IEEE 802.11ac 80 mode / 5290MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5289.992870	5250-5350	PASS
40	120	5289.979374	5250-5350	PASS
30	120	5289.952778	5250-5350	PASS
20	120	5289.998145	5250-5350	PASS
10	120	5289.964720	5250-5350	PASS
0	120	5289.980279	5250-5350	PASS
-10	120	5289.981939	5250-5350	PASS
-20	120	5289.997340	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5289.984721	5250-5350	PASS
	120	5289.998145	5250-5350	PASS
	132	5289.979890	5250-5350	PASS

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IEEE 802.11ac 80 mode / 5775MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5774.957475	5725-5850	PASS
40	120	5774.966896	5725-5850	PASS
30	120	5774.991490	5725-5850	PASS
20	120	5774.998886	5725-5850	PASS
10	120	5774.977484	5725-5850	PASS
0	120	5774.991466	5725-5850	PASS
-10	120	5774.987213	5725-5850	PASS
-20	120	5774.975643	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5774.974781	5725-5850	PASS
	120	5774.998886	5725-5850	PASS
	132	5774.962217	5725-5850	PASS

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Antenna 2

IEEE 802.11ac 80 mode / 5210MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5209.960838	5150-5250	PASS
40	120	5209.958753	5150-5250	PASS
30	120	5209.951718	5150-5250	PASS
20	120	5209.997612	5150-5250	PASS
10	120	5209.984479	5150-5250	PASS
0	120	5209.977241	5150-5250	PASS
-10	120	5209.961982	5150-5250	PASS
-20	120	5209.950895	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5209.957277	5150-5250	PASS
	120	5209.997612	5150-5250	PASS
	132	5209.998293	5150-5250	PASS

IEEE 802.11ac 80 mode / 5290MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5289.992515	5250-5350	PASS
40	120	5289.962942	5250-5350	PASS
30	120	5289.981479	5250-5350	PASS
20	120	5289.998364	5250-5350	PASS
10	120	5289.979210	5250-5350	PASS
0	120	5289.962432	5250-5350	PASS
-10	120	5289.970254	5250-5350	PASS
-20	120	5289.955466	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5289.980071	5250-5350	PASS
	120	5289.998364	5250-5350	PASS
	132	5289.976303	5250-5350	PASS

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IEEE 802.11ac 80 mode / 5775MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5774.971327	5725-5850	PASS
40	120	5774.997807	5725-5850	PASS
30	120	5774.966238	5725-5850	PASS
20	120	5774.998783	5725-5850	PASS
10	120	5774.965894	5725-5850	PASS
0	120	5774.964512	5725-5850	PASS
-10	120	5774.972722	5725-5850	PASS
-20	120	5774.985697	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5774.967939	5725-5850	PASS
	120	5774.998783	5725-5850	PASS
	132	5774.949466	5725-5850	PASS

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