



6.8 CONDUCTED UNDESIRABLE EMISSION

6.8.1 LIMIT

According to 15.407(b) ,

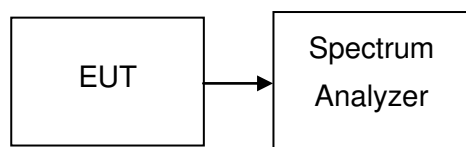
- (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) For transmitters operating in the 5.725–5.850 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of –17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of –27 dBm/MHz.
- (3) The provisions of §15.205 apply to intentional radiators operating under this section.

6.8.2 MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2016	02/20/2017

Remark: Each piece of equipment is scheduled for calibration once a year.

6.8.3 TEST CONFIGURATION



6.8.4 TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 1 MHz. The video bandwidth is set to 1 MHz. Peak detection measurements are compared to the average EIRP limit, adjusted for the maximum antenna gain. If necessary, additional average detection measurements are made.

Measurements are made over the 30 MHz to 40 GHz range with the transmitter set to the lowest, middle, and highest channels.



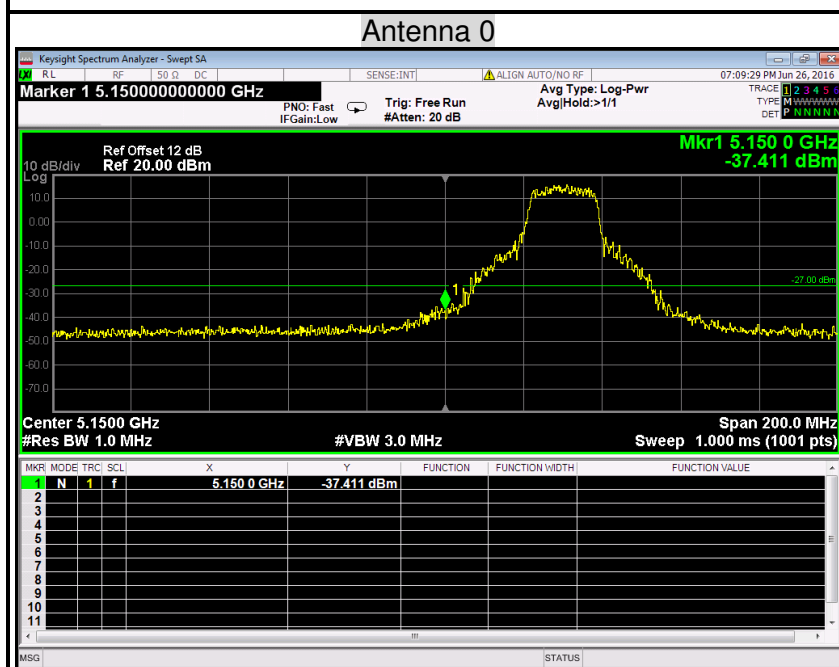
6.8.5 TEST RESULTS

No non-compliance noted

Test Plot

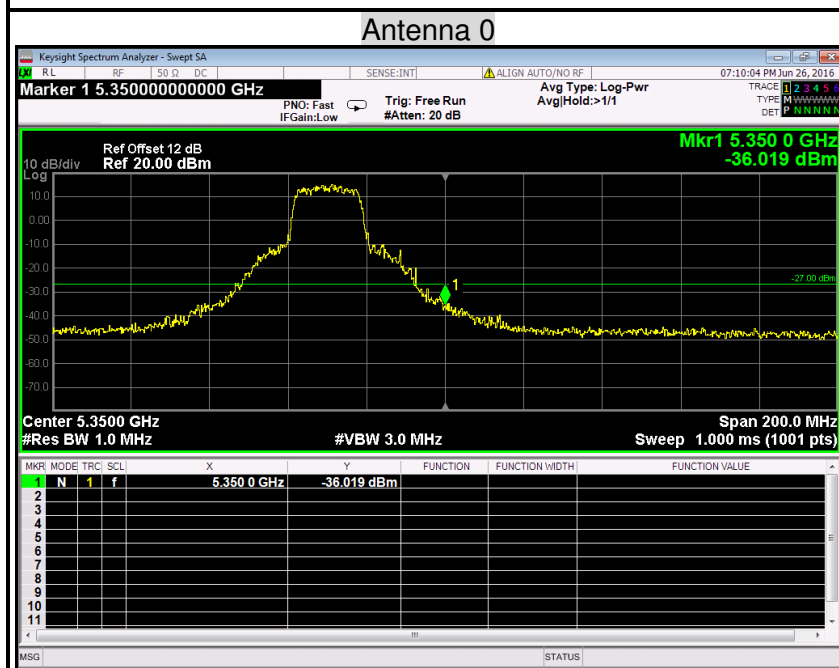
IEEE 802.11a mode / 5180 ~ 5240MHz

CH Low



IEEE 802.11a mode / 5260~ 5320MHz

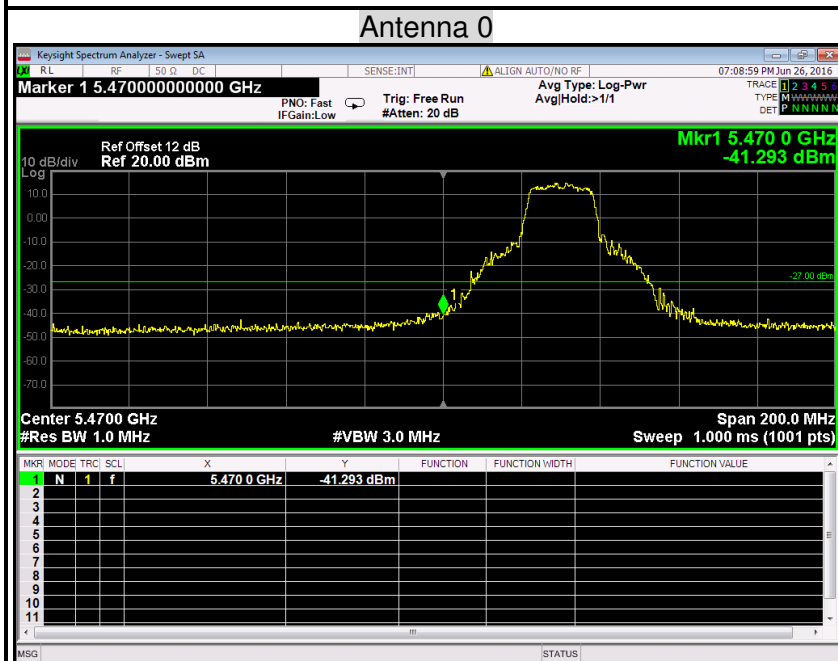
CH High



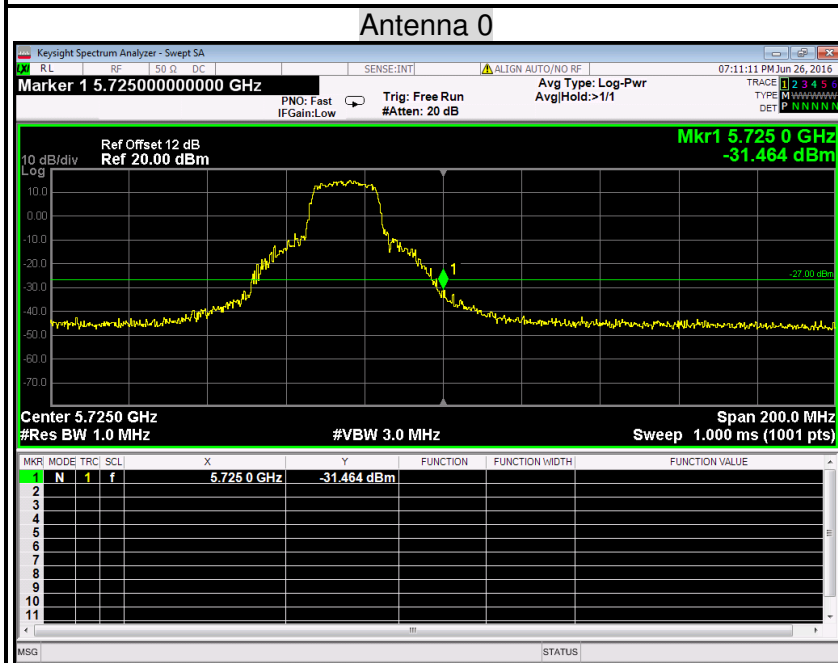


IEEE 802.11a mode / 5500 ~ 5700MHz

CH Low



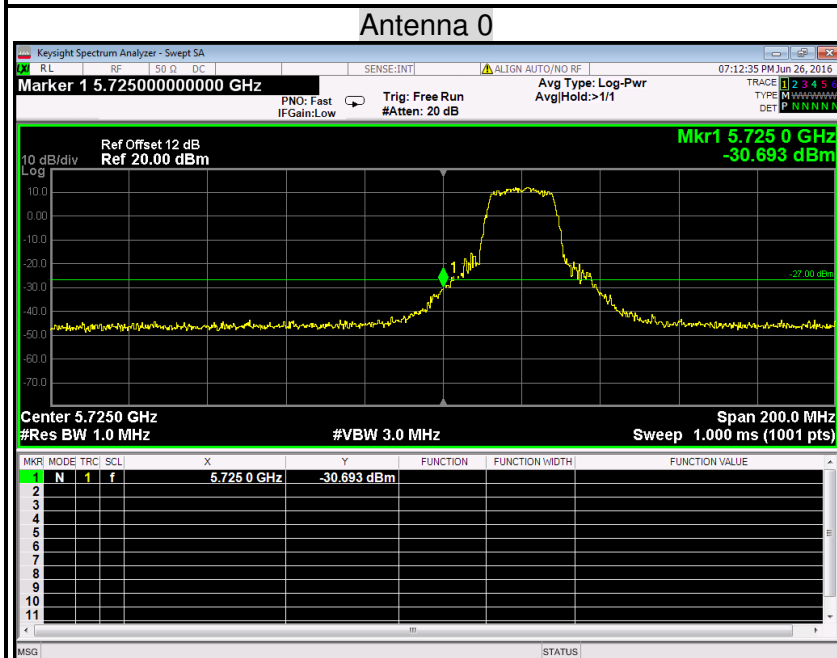
CH High



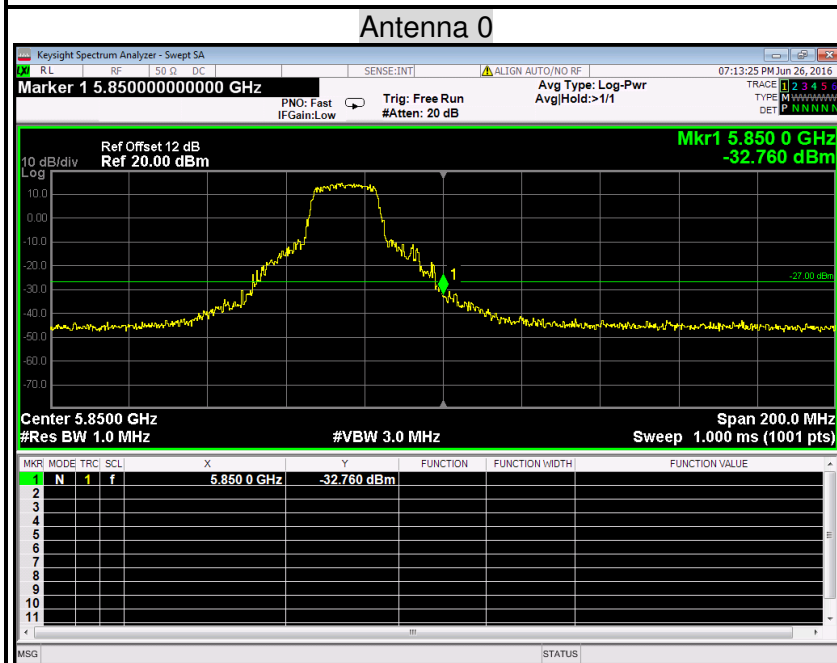


IEEE 802.11a mode / 5745 ~ 5825MHz

CH Low



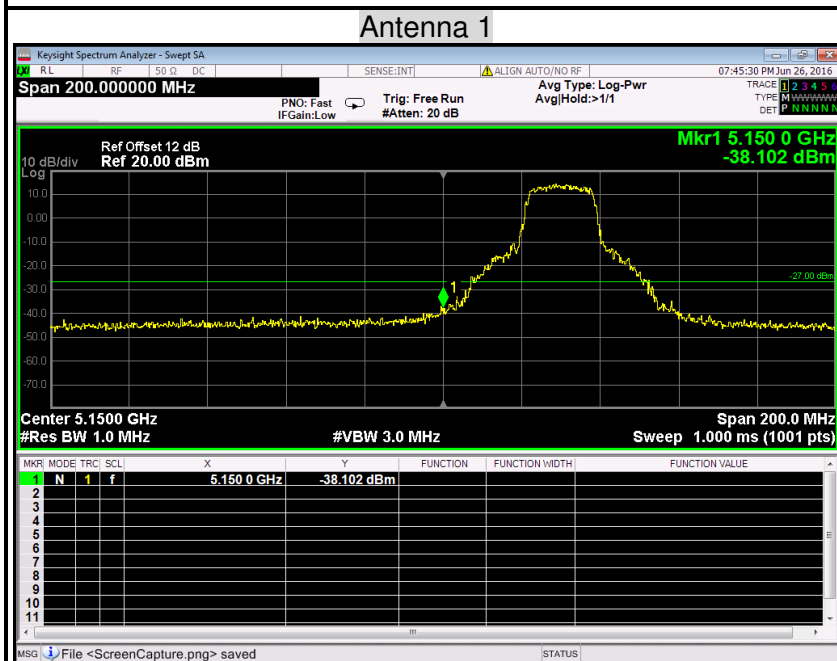
CH High





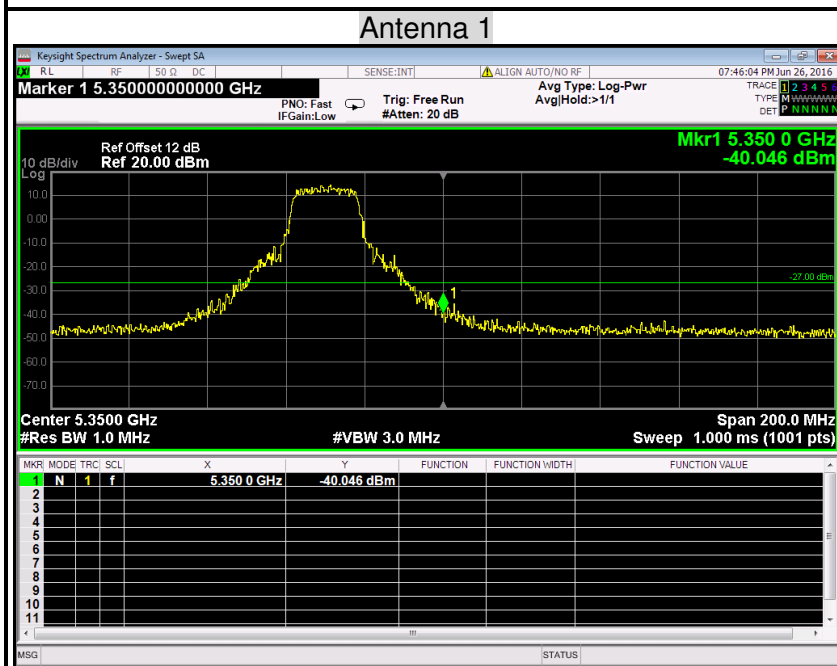
IEEE 802.11a mode / 5180 ~ 5240MHz

CH Low



IEEE 802.11a mode / 5260~ 5320MHz

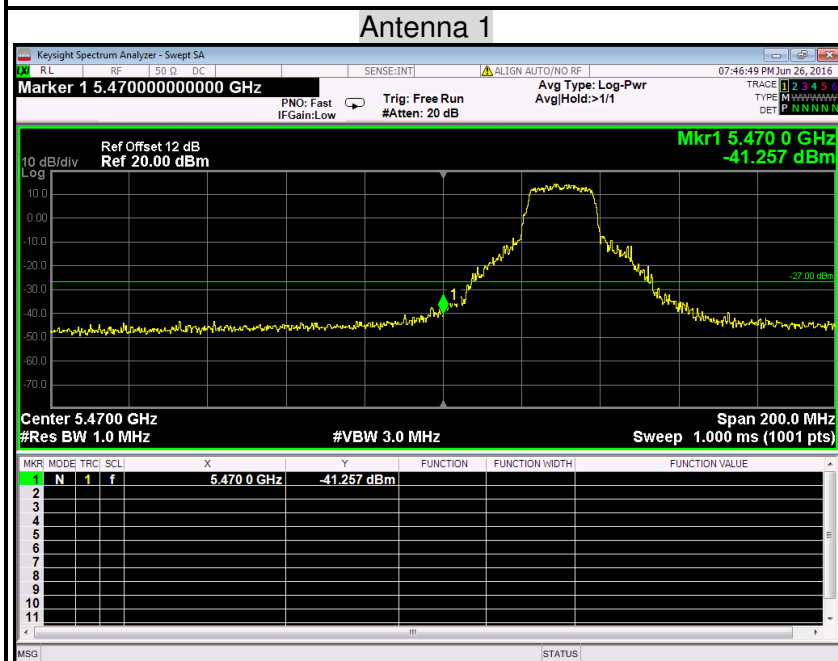
CH High



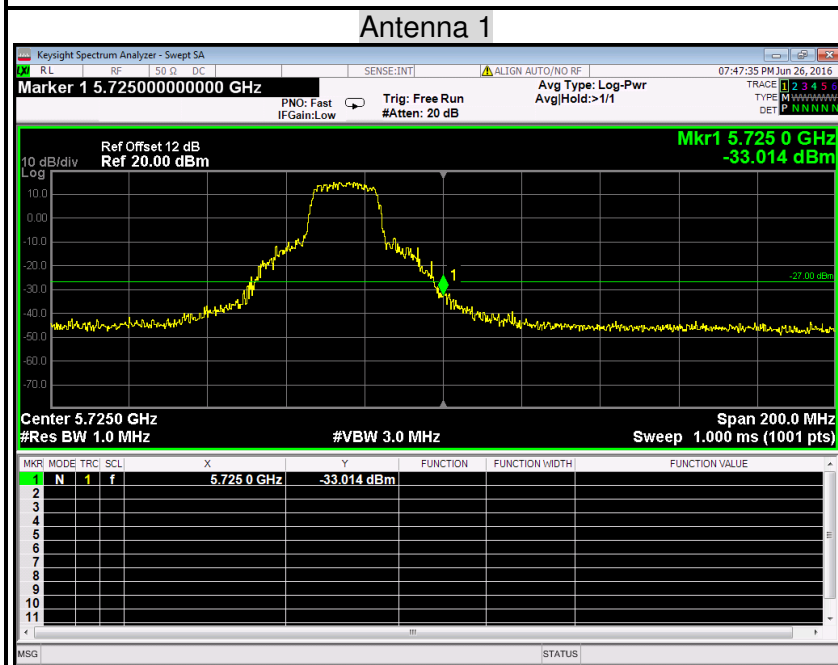


IEEE 802.11a mode / 5500 ~ 5700MHz

CH Low



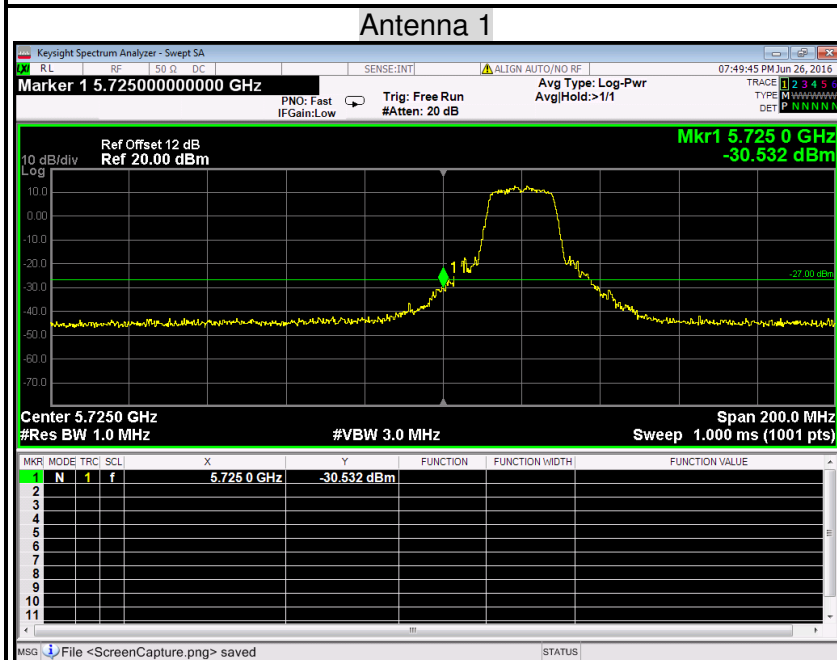
CH High



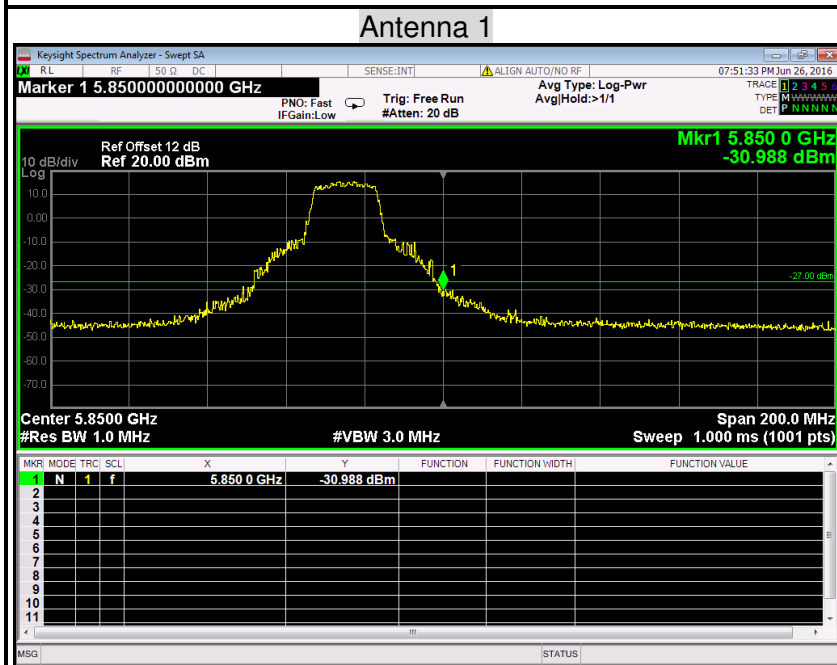


IEEE 802.11a mode / 5745 ~ 5825MHz

CH Low



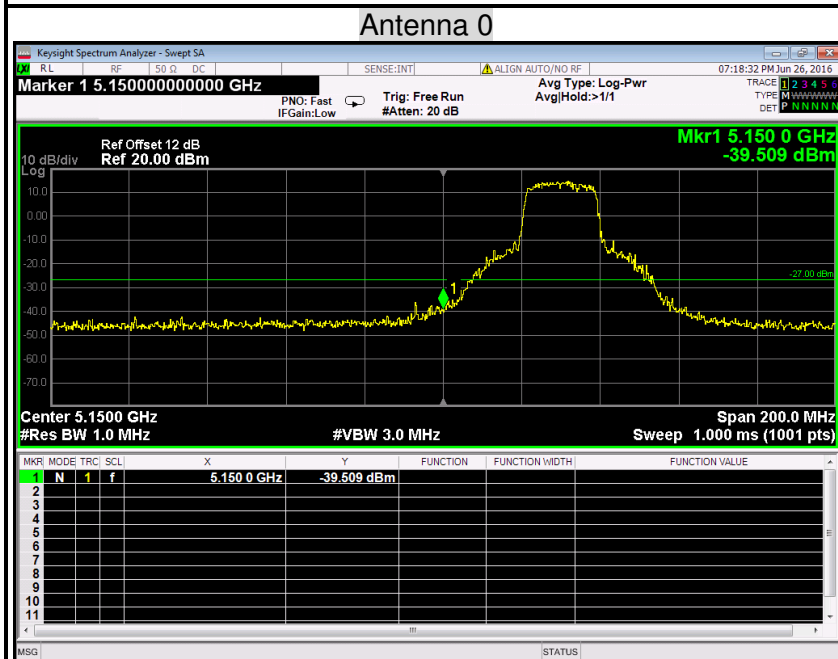
CH High





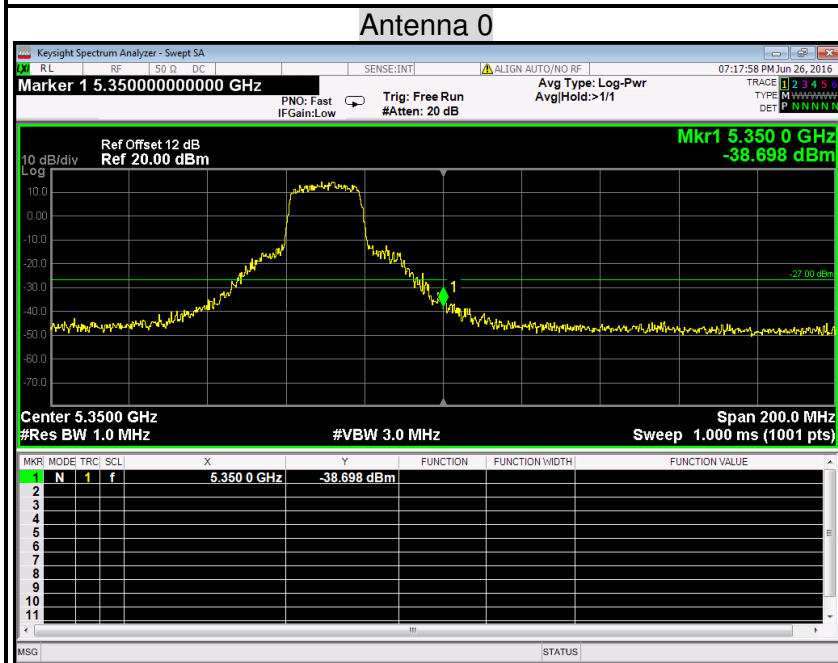
IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

CH Low



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

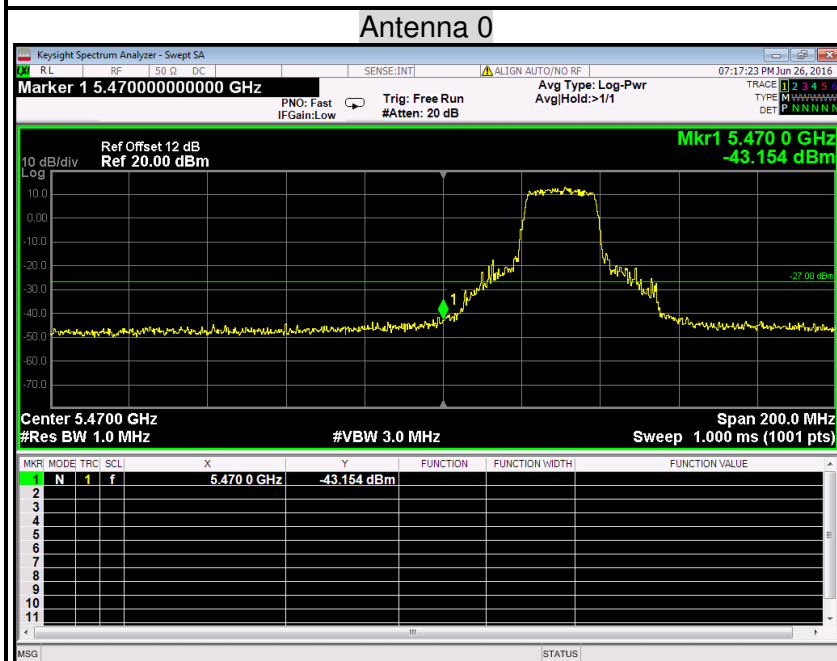
CH High



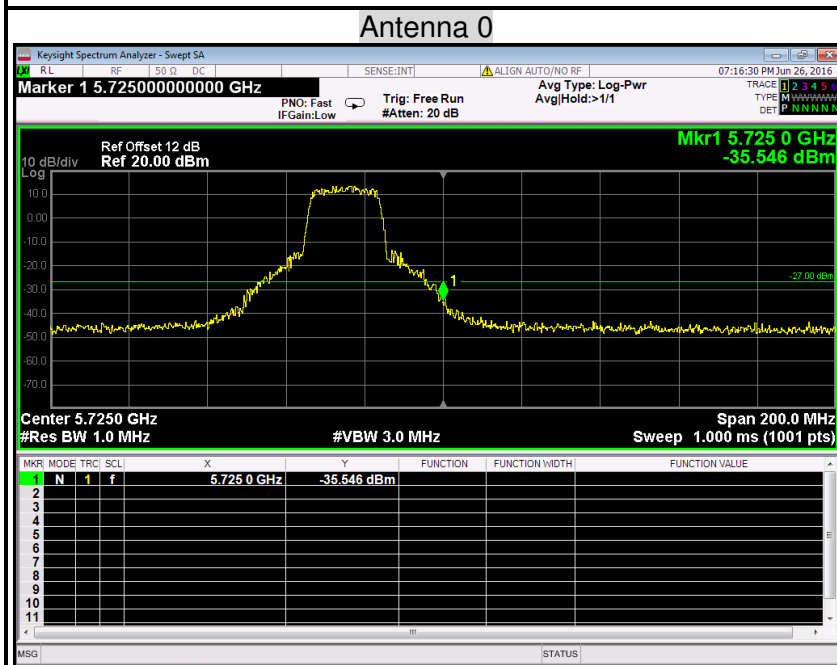


IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

CH Low



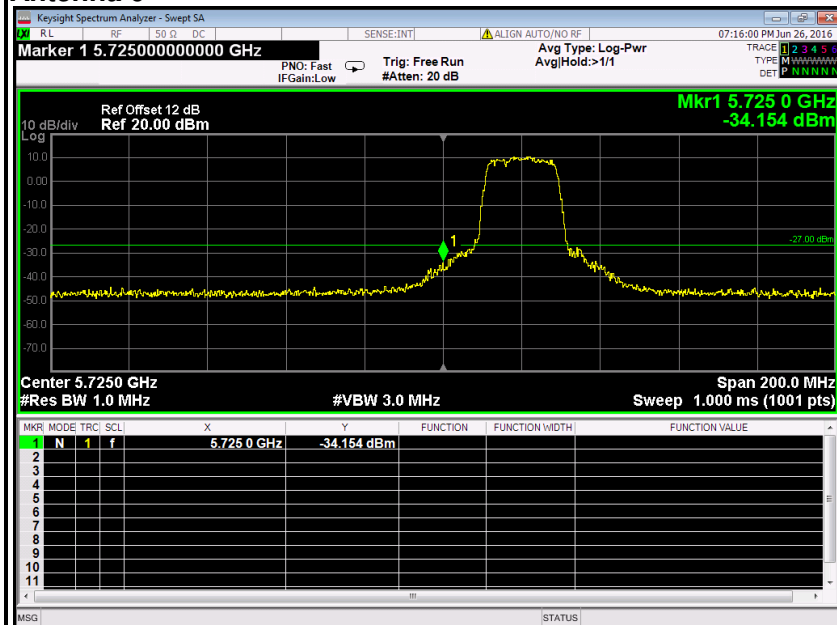
CH High



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

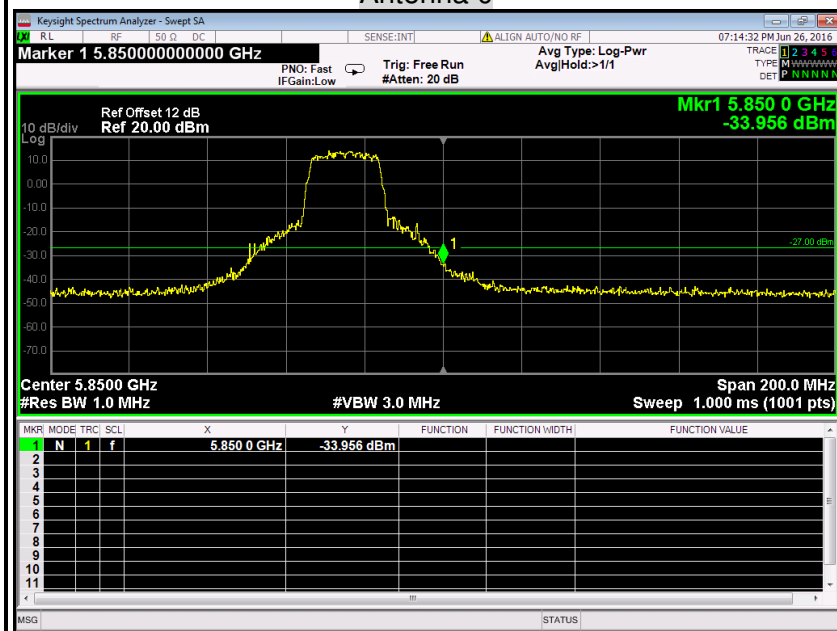
CH Low

Antenna 0



CH High

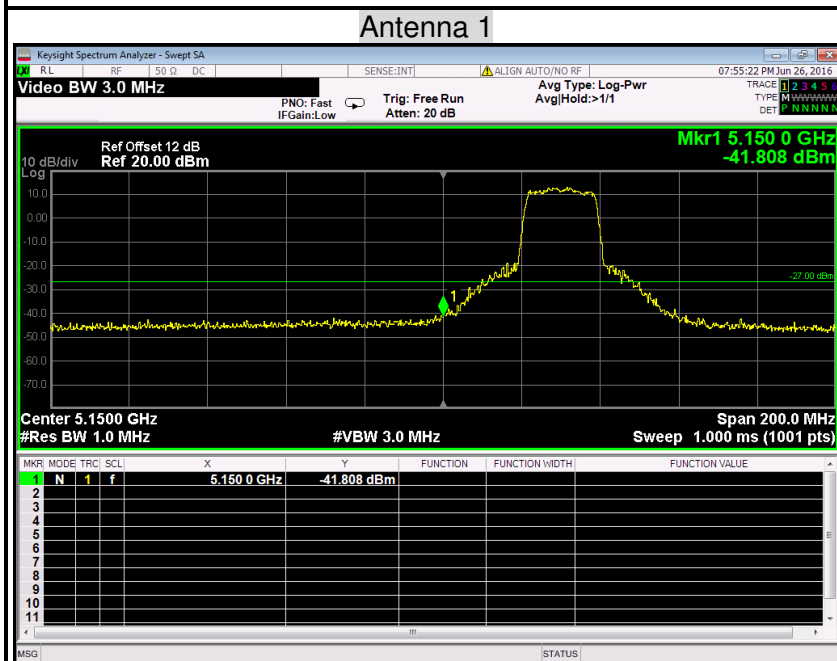
Antenna 0





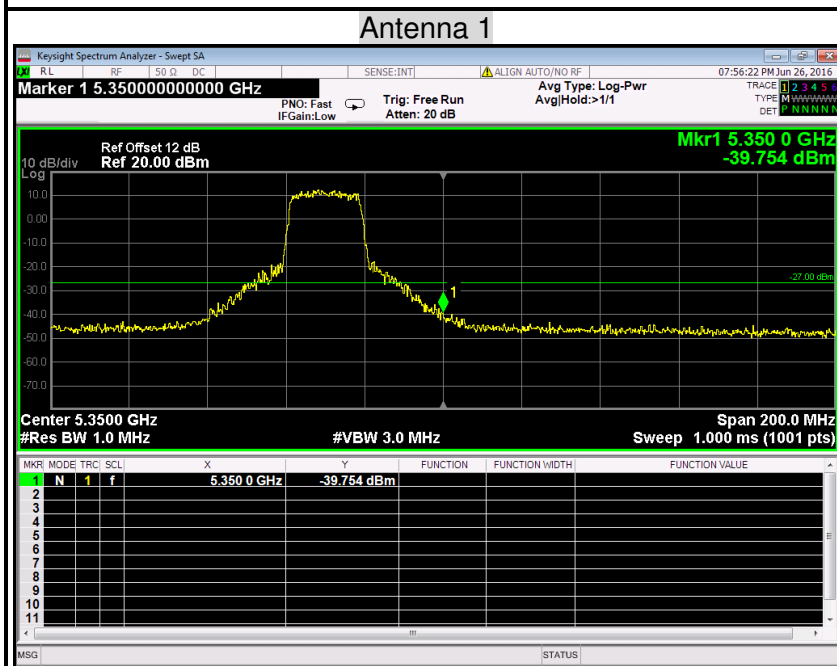
IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

CH Low



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

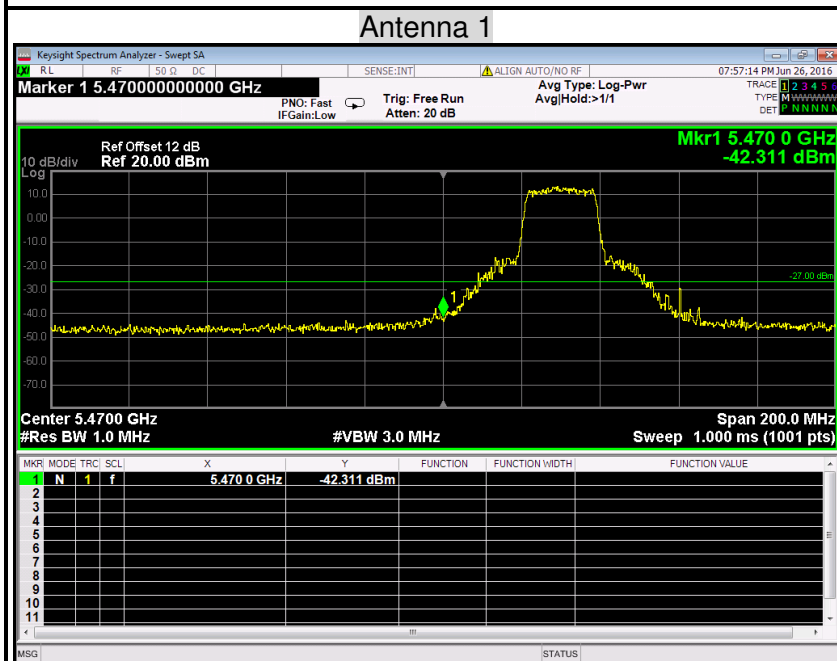
CH High



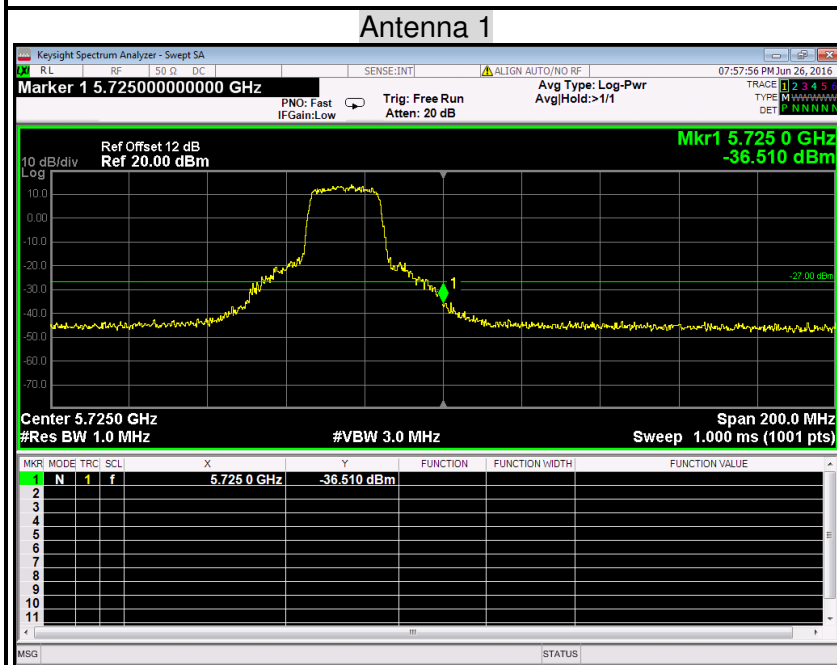


IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

CH Low



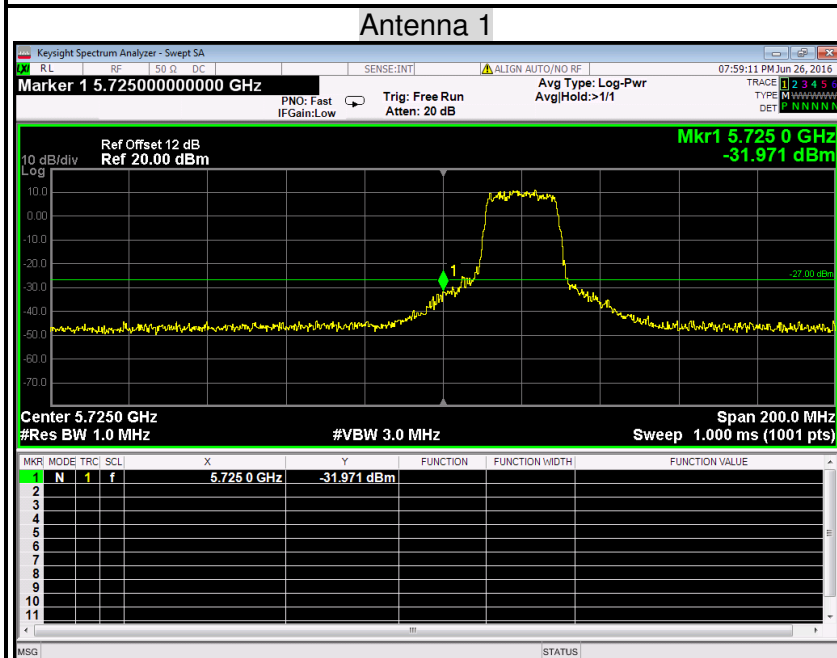
CH High



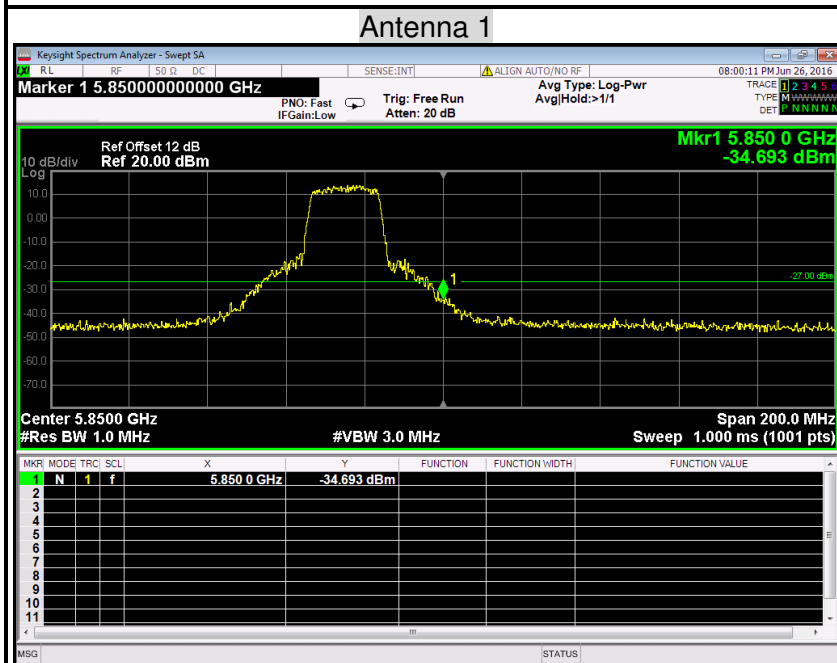


IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

CH Low



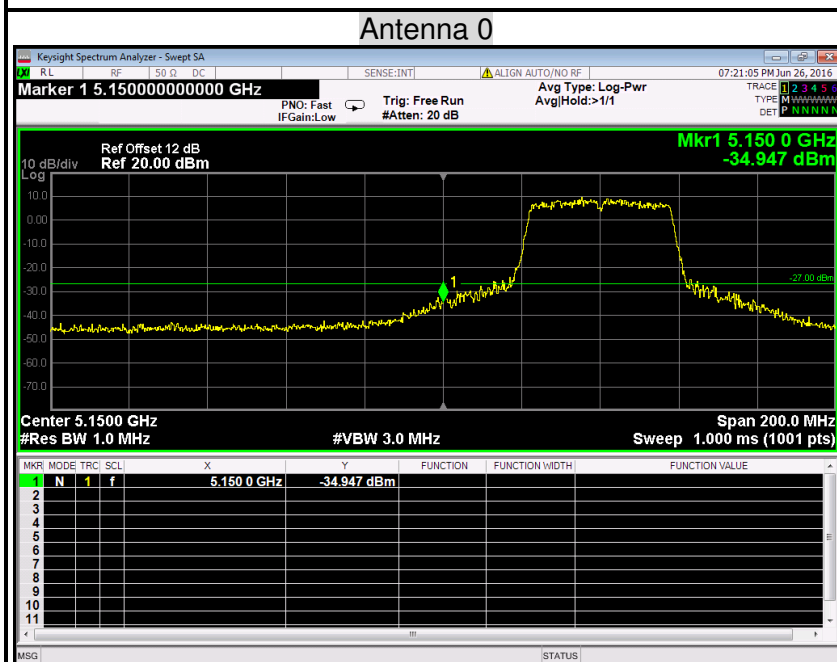
CH High





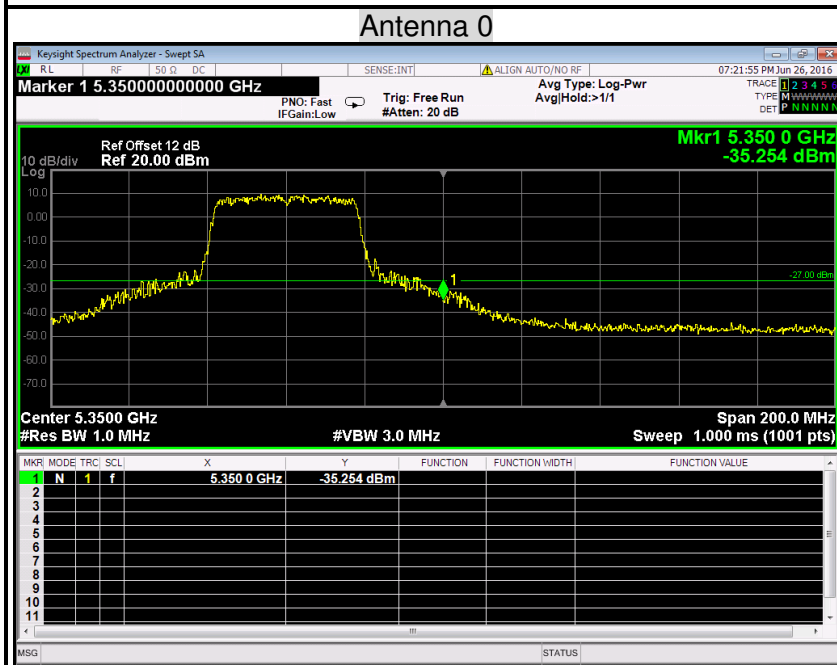
IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

CH Low



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

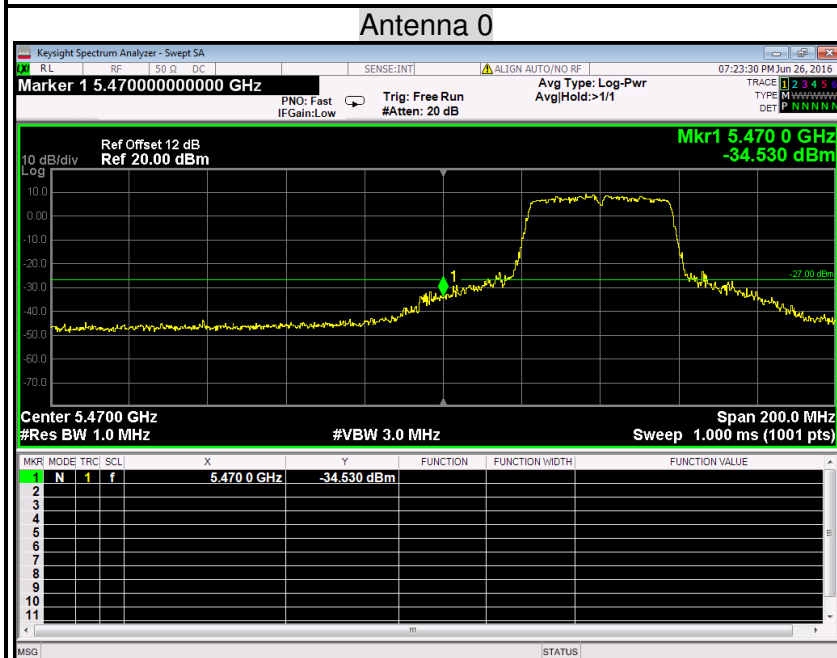
CH High



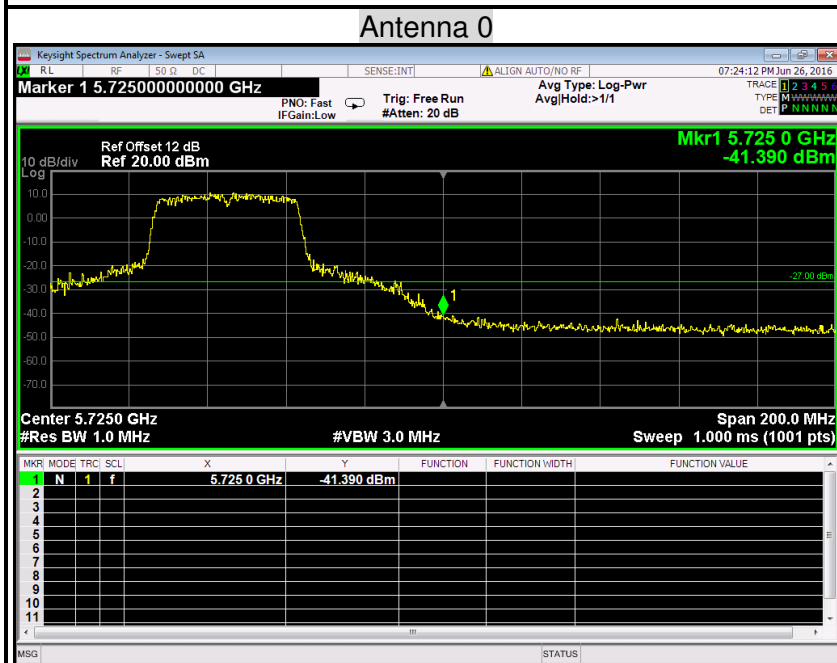


IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

CH Low



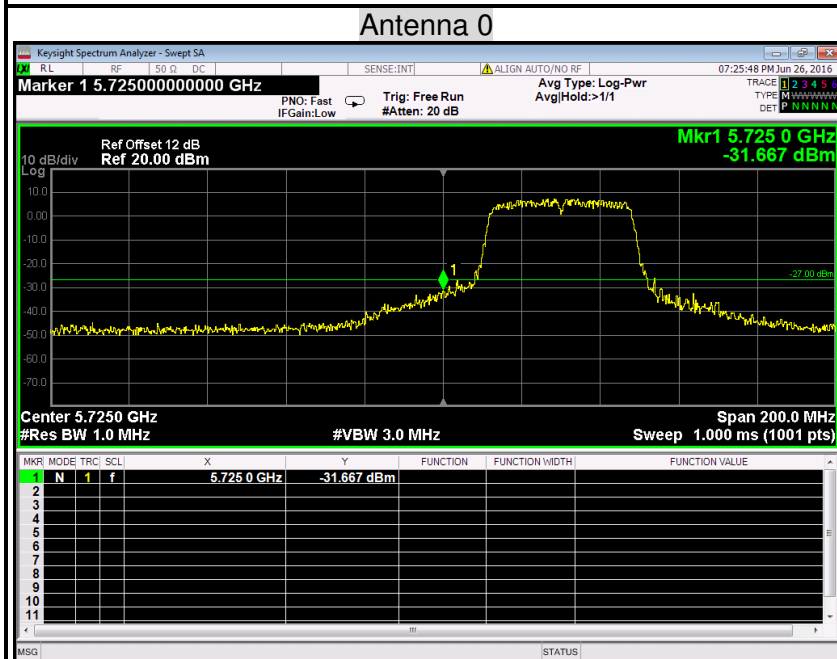
CH High



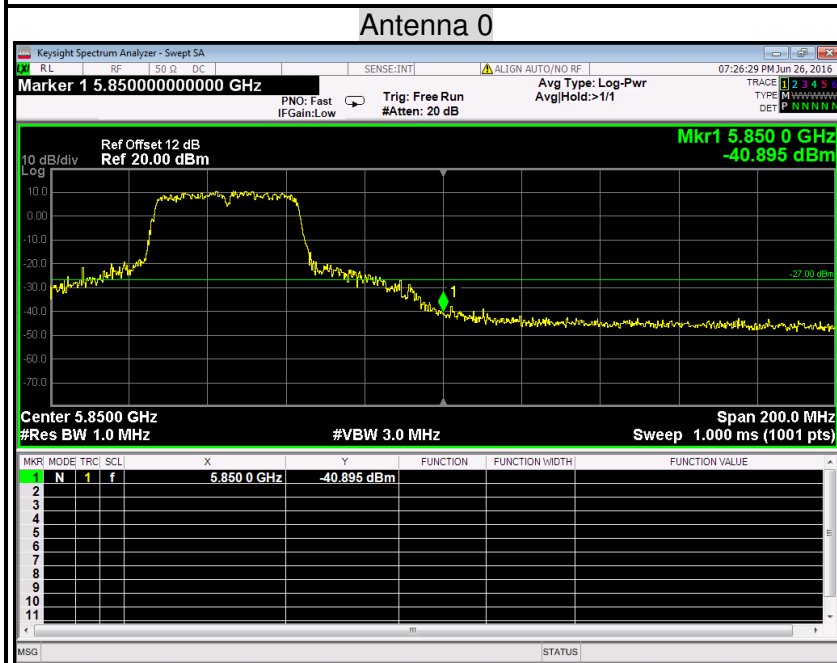


IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

CH Low



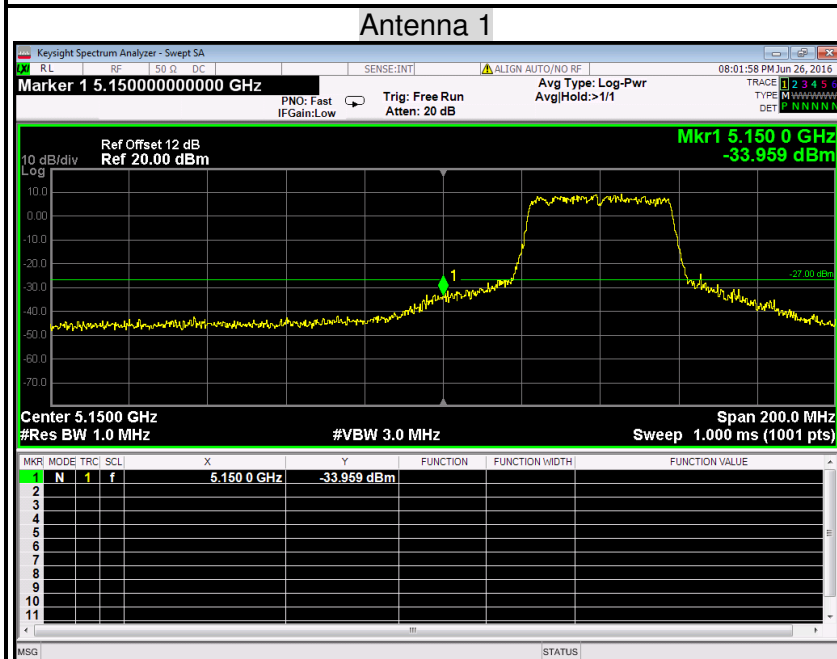
CH High





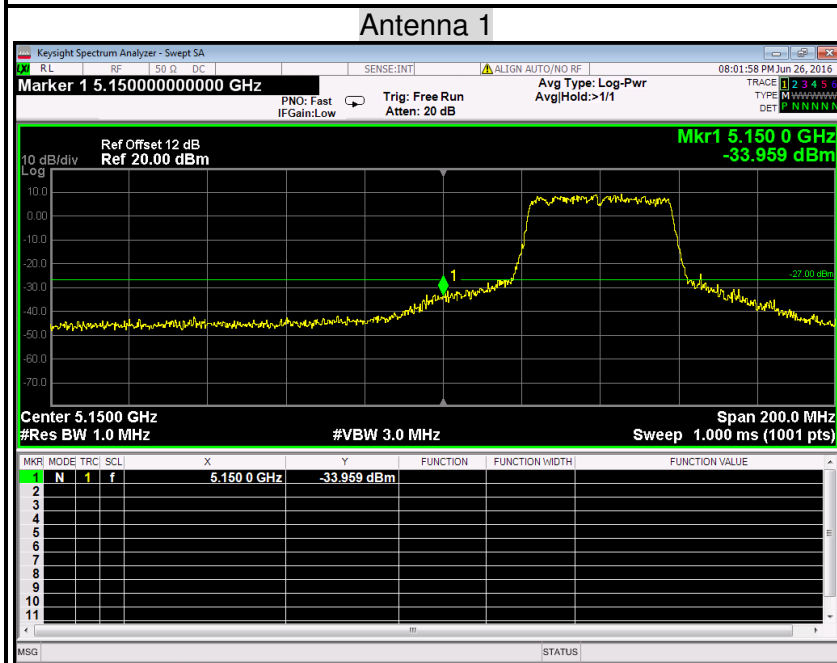
IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

CH Low



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

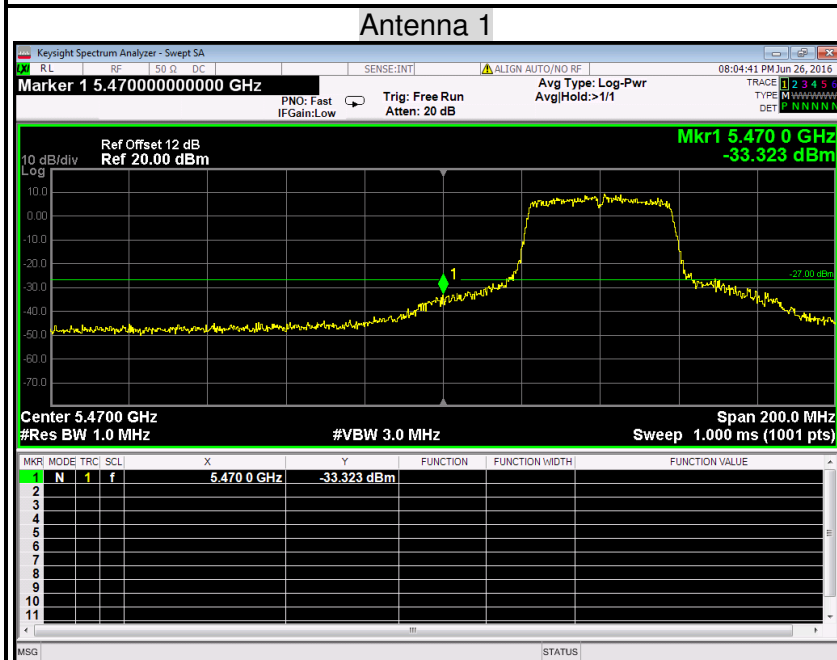
CH High



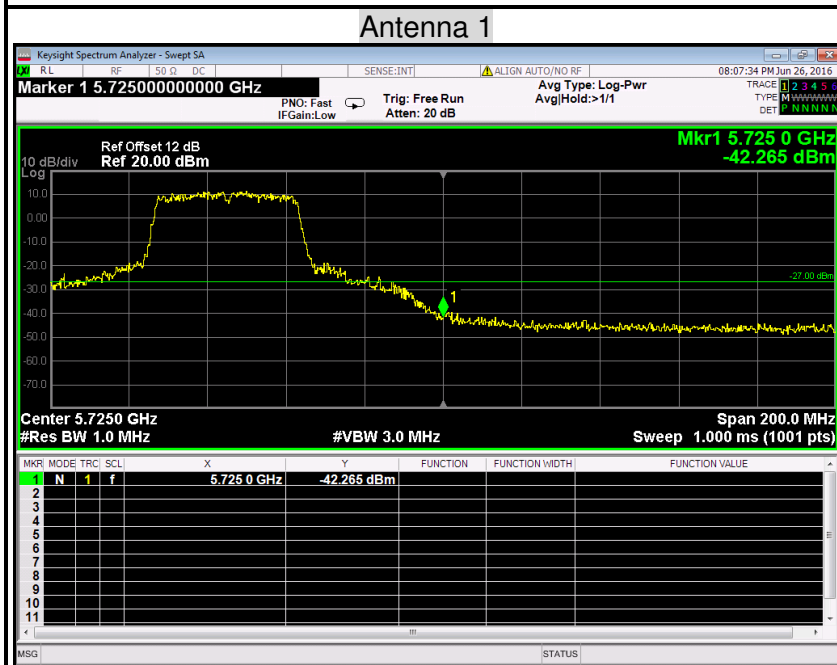


IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

CH Low



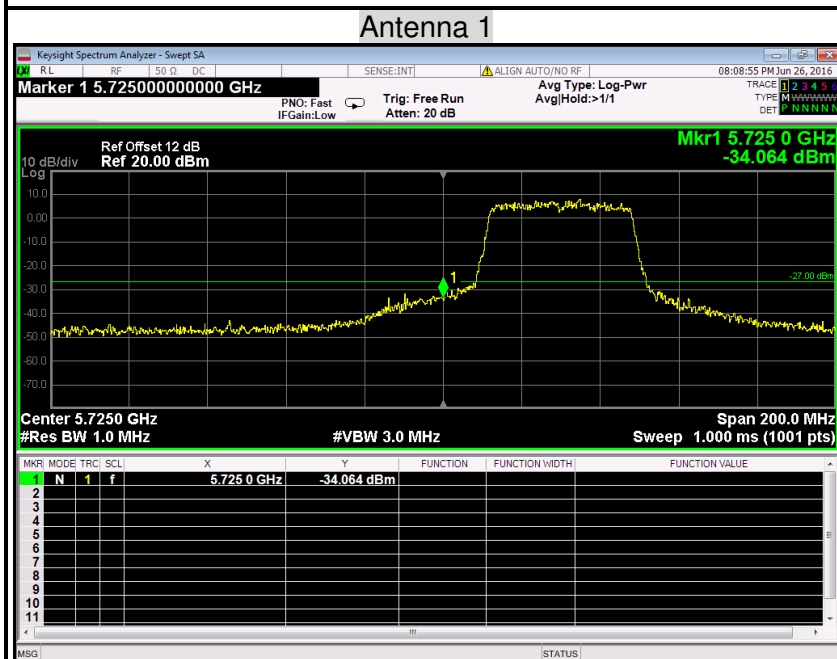
CH High



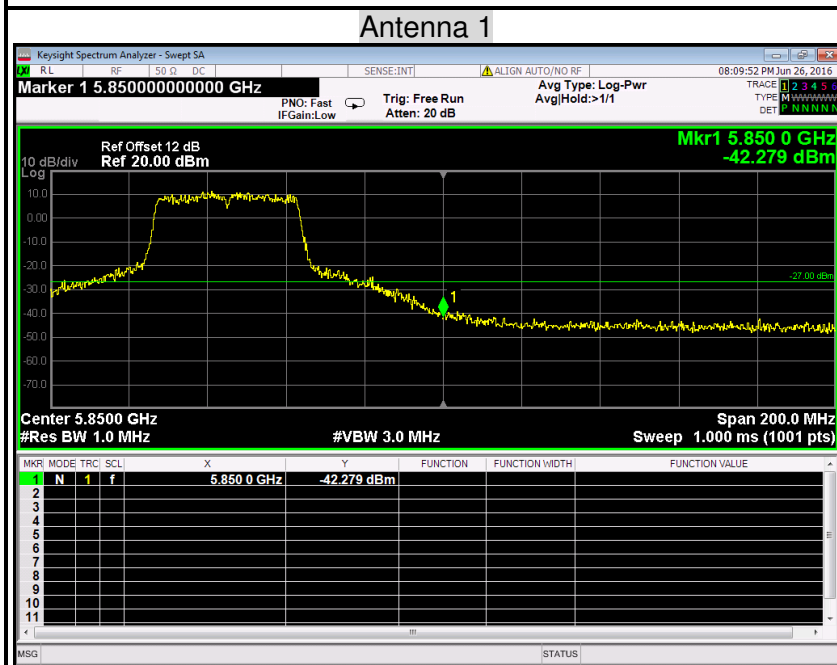


IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

CH Low



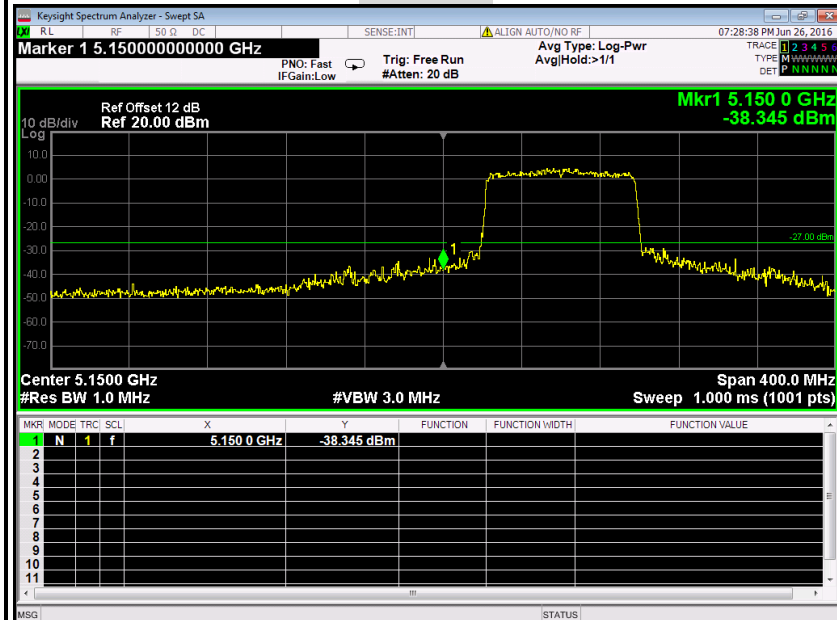
CH High





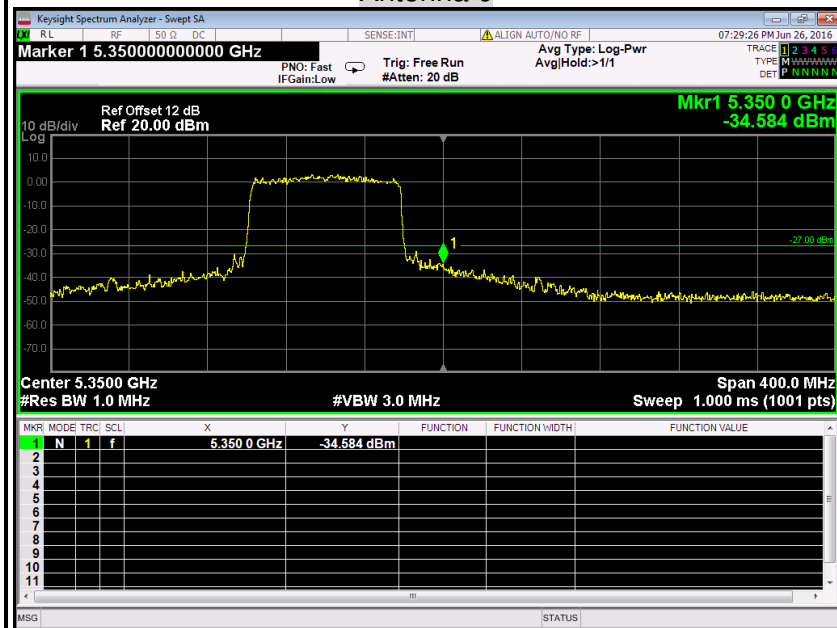
IEEE 802.11ac 80 mode / 5210MHz

Antenna 0



IEEE 802.11ac 80 mode / 5290MHz

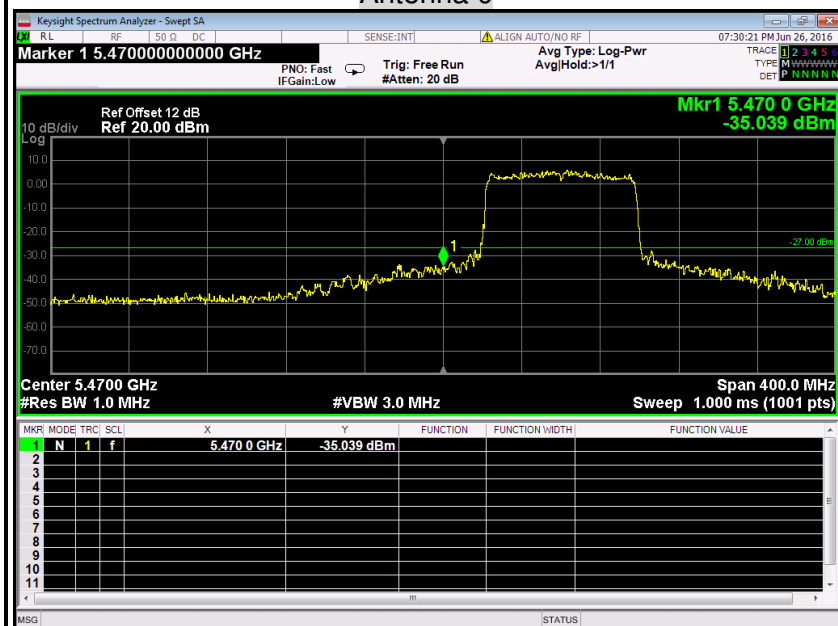
Antenna 0





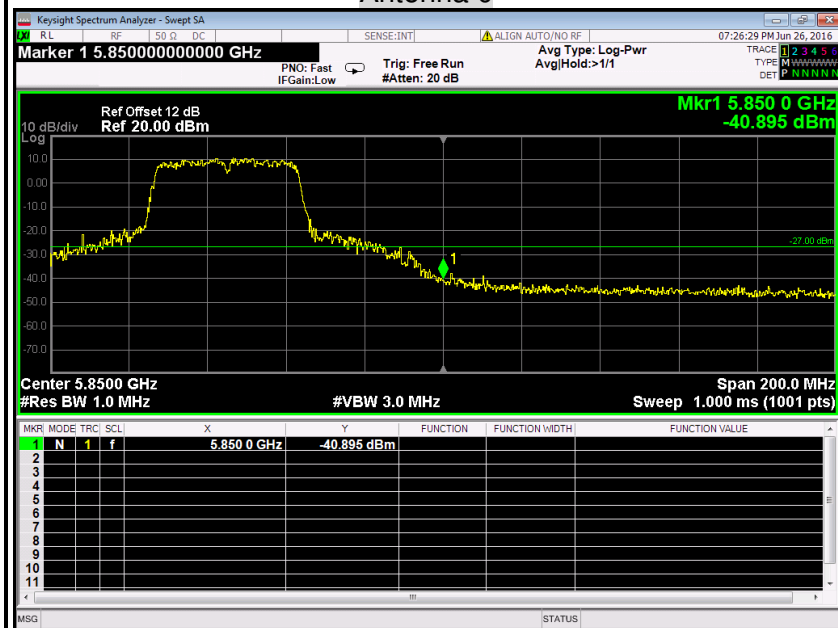
IEEE 802.11ac 80 mode / 5530MHz

Antenna 0



IEEE 802.11ac 80 mode / 5775MHz

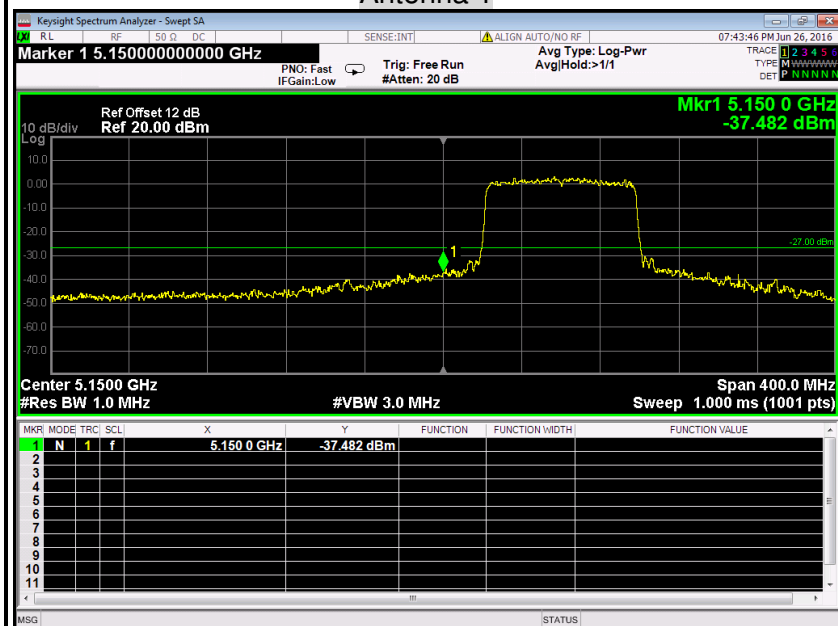
Antenna 0





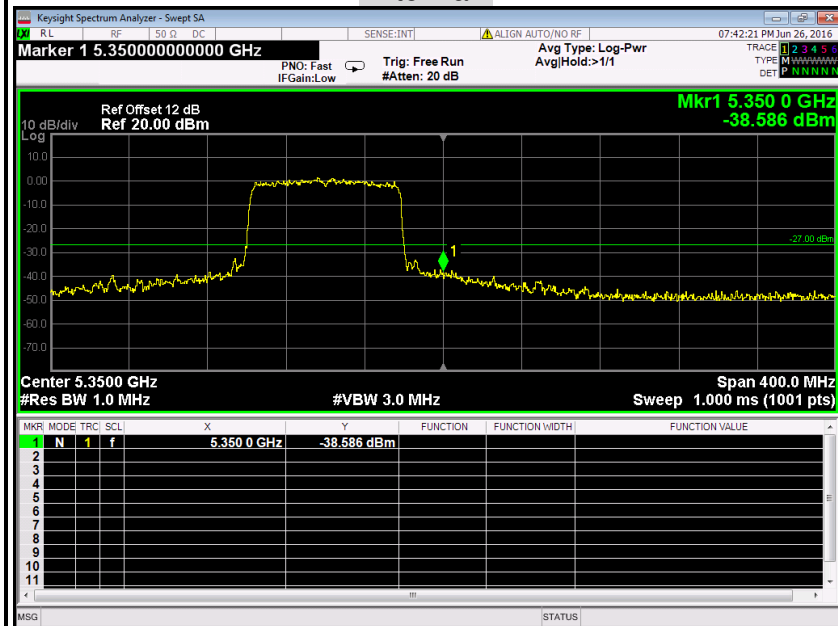
IEEE 802.11ac 80 mode / 5210MHz

Antenna 1



IEEE 802.11ac 80 mode / 5290MHz

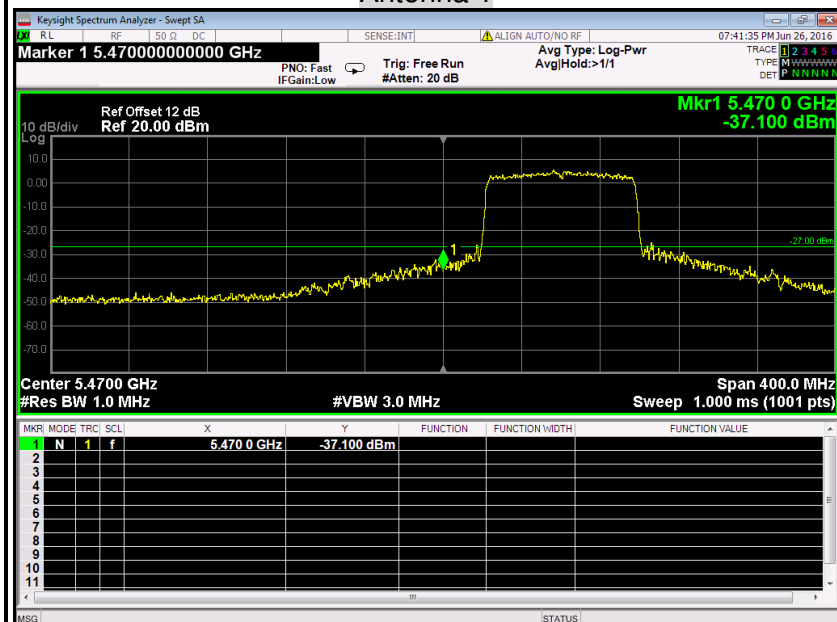
Antenna 1





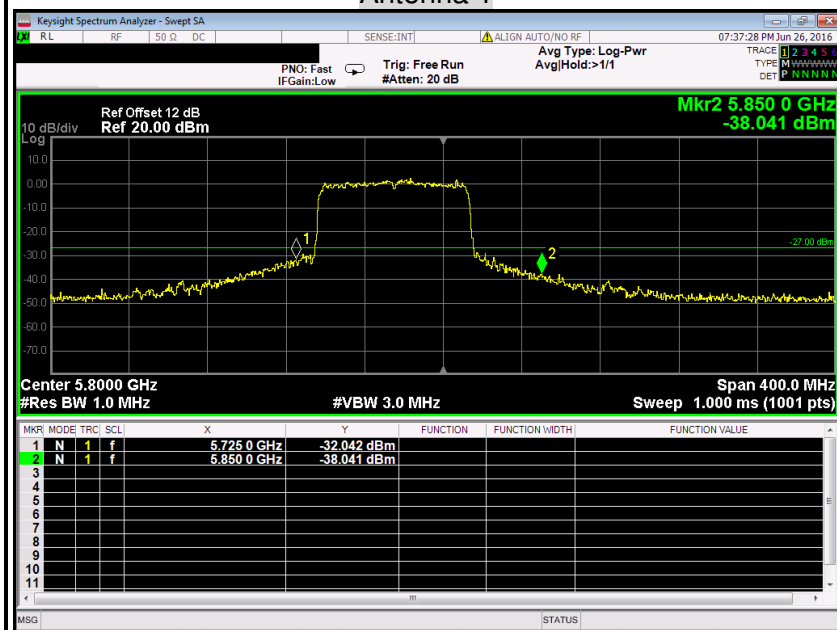
IEEE 802.11ac 80 mode / 5530MHz

Antenna 1



IEEE 802.11ac 80 mode / 5775MHz

Antenna 1





6.9 POWERLINE CONDUCTED EMISSIONS

6.9.1 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 μ H/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 (dB μ V)	
	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.

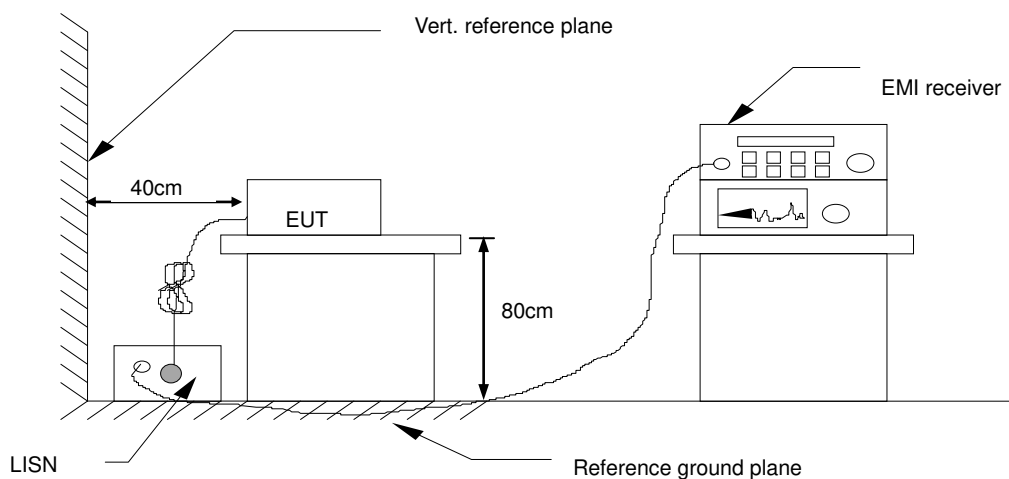
6.9.2 TEST INSTRUMENTS

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/20/2017
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	02/21/2016	02/20/2017
LISN	EMCO	3825/2	8901-1459	02/21/2016	02/20/2017
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	02/21/2016	02/20/2017
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.



6.9.3 TEST CONFIGURATION



6.9.4 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.

6.9.5 DATA SAMPLE

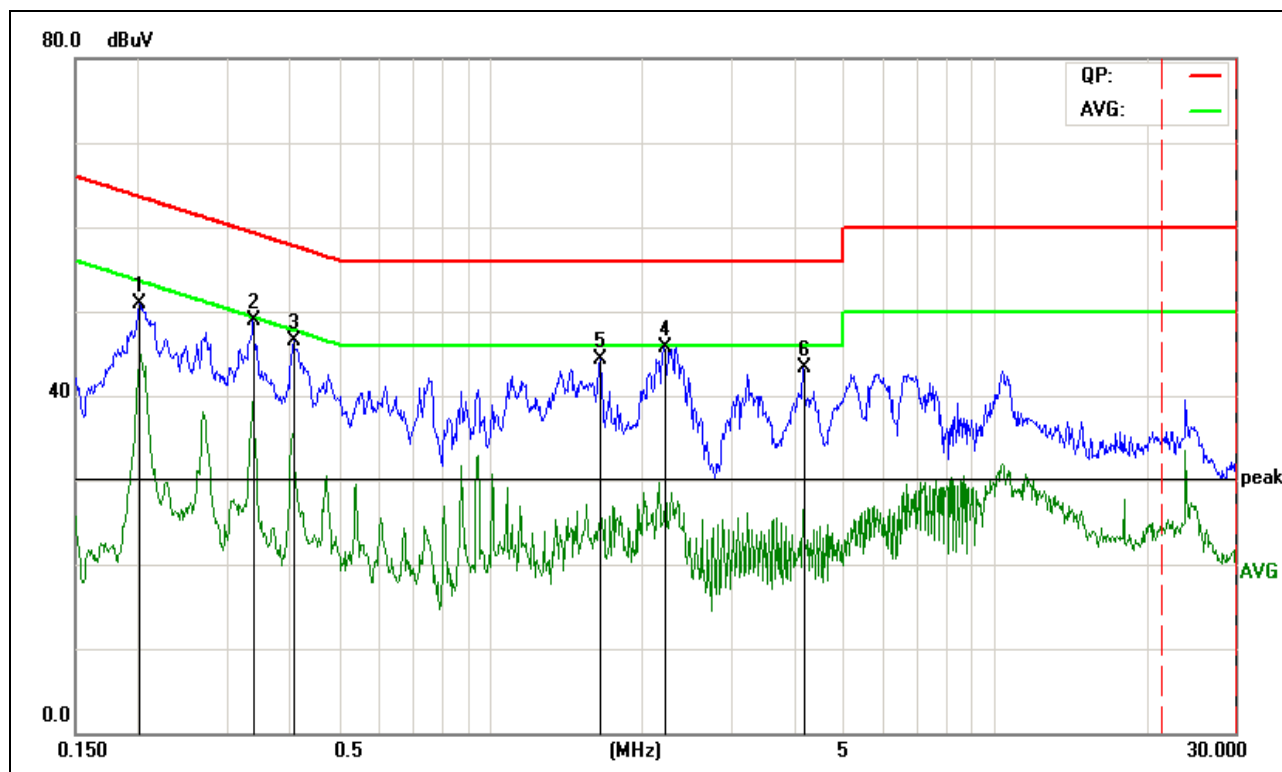
Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62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



6.9.6 TEST RESULTS

Model No.	TWM-M7662	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Jack Chen	Line	L1
Test Date	June 27, 2016		

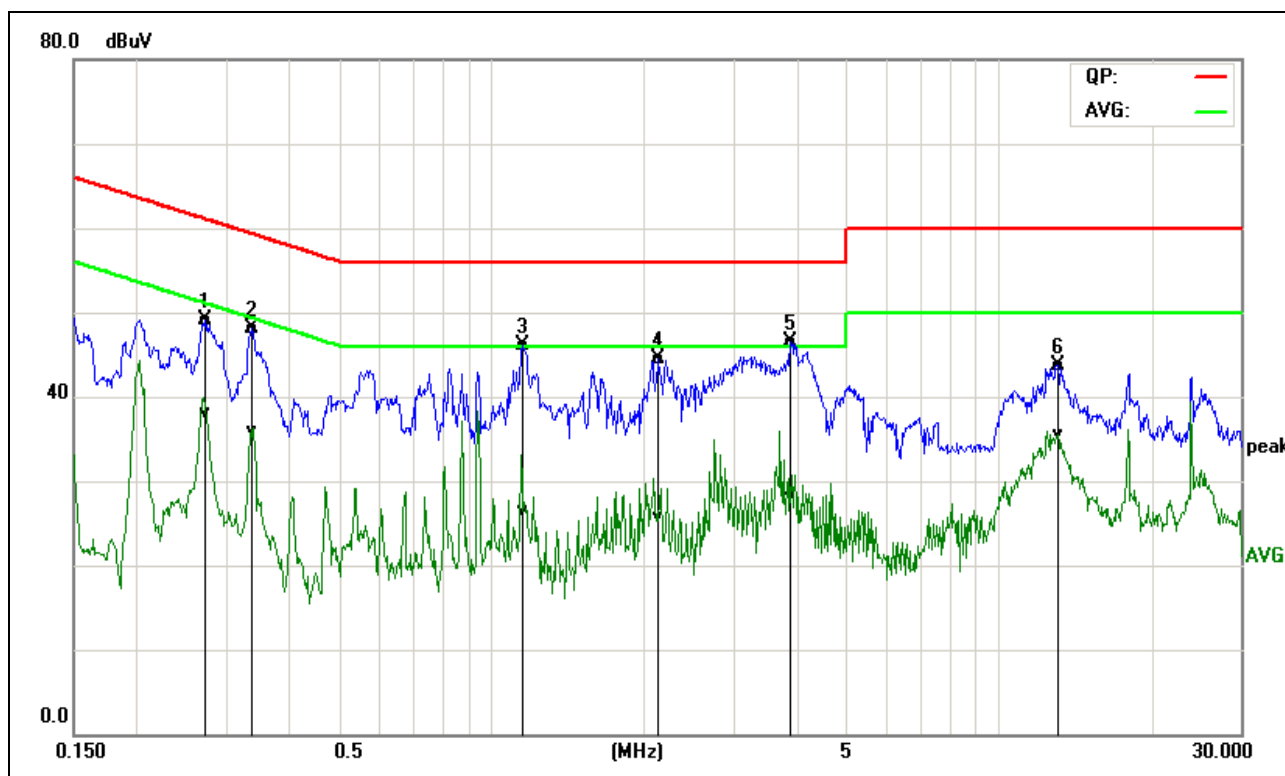


Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
0.2006	41.27	34.37	9.69	50.96	44.06	63.58	53.59	-12.62	-9.53	Pass
0.3380	39.17	29.68	9.69	48.86	39.37	59.25	49.25	-10.39	-9.88	Pass
0.4061	36.76	26.11	9.68	46.44	35.79	57.73	47.73	-11.29	-11.94	Pass
2.2060	35.96	15.53	9.72	45.68	25.25	56.00	46.00	-10.32	-20.75	Pass
1.6500	34.66	14.80	9.72	44.38	24.52	56.00	46.00	-11.62	-21.48	Pass
4.1780	33.52	16.80	9.70	43.22	26.50	56.00	46.00	-12.78	-19.50	Pass

REMARKS: L1 = Line One (Live Line)



Model No.	TWM-M7662	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Jack Chen	Line	L2
Test Date	June 27, 2016		



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)
0.2740	39.27	28.43	9.76	49.03	38.19	60.99	51.00	-11.96	-12.81	Pass
0.3380	38.34	26.10	9.74	48.08	35.84	59.25	49.25	-11.17	-13.41	Pass
1.1540	36.25	16.70	9.79	46.04	26.49	56.00	46.00	-9.96	-19.51	Pass
2.1340	34.81	15.90	9.73	44.54	25.63	56.00	46.00	-11.46	-20.37	Pass
3.8940	36.74	18.43	9.76	46.50	28.19	56.00	46.00	-9.50	-17.81	Pass
13.0980	34.02	25.79	9.77	43.79	35.56	60.00	50.00	-16.21	-14.44	Pass

REMARKS: L2 = Line Two (Neutral Line)



6.10 FREQUENCY STABILITY

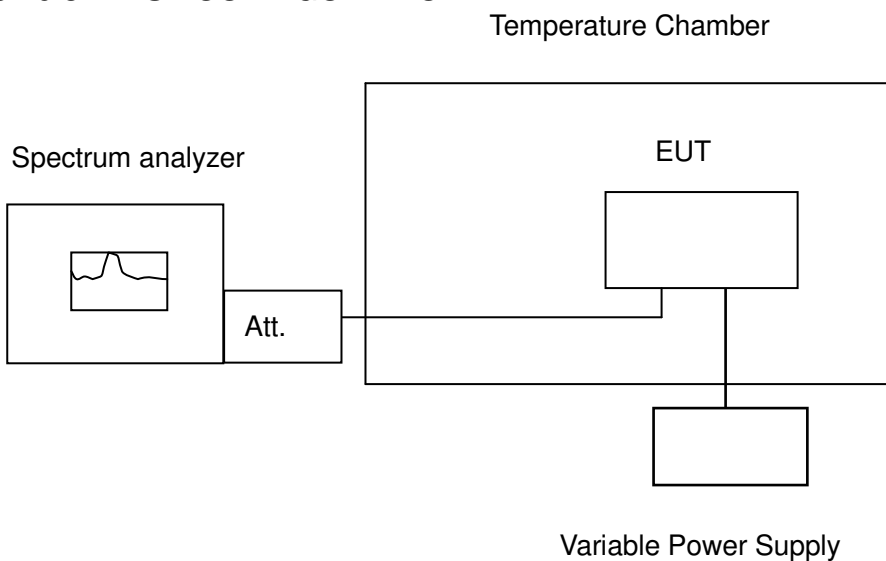
6.10.1 LIMIT

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.

6.10.2 TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2016	02/20/2017
DC Power Supply	DAZHENG	PS-605D	20018978	N.C.R	N.C.R
AC POWER SOURCE	UMART	HPA1010	N/A	N.C.R	N.C.R
Power Meter	Anritsu	ML2495A	1204003	02/21/2016	02/20/2017
Power Sensor	Anritsu	MA2411B	1126150	02/21/2016	02/20/2017
Temperature Chamber	TERCHY	MHG-800N	E21104	11/18/2015	11/17/2016
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2016	02/20/2017

6.10.3 TEST CONFIGURATION



Remark: Measurement setup for testing on Antenna connector



6.10.4 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°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

6.10.5 TEST RESULTS

No non-compliance noted.

**Test Data**
Antenna 0**IEEE 802.11a MHz mode / 5180 ~ 5240MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.974924	5150-5250	PASS
40	120	5179.971560	5150-5250	PASS
30	120	5179.997553	5150-5250	PASS
20	120	5179.997200	5150-5250	PASS
10	120	5179.973559	5150-5250	PASS
0	120	5179.982667	5150-5250	PASS
-10	120	5179.980064	5150-5250	PASS
-20	120	5179.999475	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.961613	5150-5250	PASS
	120	5179.997200	5150-5250	PASS
	132	5179.949951	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	5239.998813	5150-5250	PASS
40	120	5239.993277	5150-5250	PASS
30	120	5239.953983	5150-5250	PASS
20	120	5240.075000	5150-5250	PASS
10	120	5239.983072	5150-5250	PASS
0	120	5239.955050	5150-5250	PASS
-10	120	5239.978561	5150-5250	PASS
-20	120	5239.961506	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.968025	5150-5250	PASS
	120	5240.075000	5150-5250	PASS
	132	5239.971149	5150-5250	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5259.956799	5250-5350	PASS
40	120	5259.950700	5250-5350	PASS
30	120	5259.979233	5250-5350	PASS
20	120	5260.031000	5250-5350	PASS
10	120	5259.971753	5250-5350	PASS
0	120	5259.955121	5250-5350	PASS
-10	120	5259.964402	5250-5350	PASS
-20	120	5259.951535	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5259.985604	5250-5350	PASS
	120	5260.031000	5250-5350	PASS
	132	5259.964191	5250-5350	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5319.973901	5250-5350	PASS
40	120	5319.975253	5250-5350	PASS
30	120	5319.957596	5250-5350	PASS
20	120	5320.105000	5250-5350	PASS
10	120	5319.982910	5250-5350	PASS
0	120	5319.966947	5250-5350	PASS
-10	120	5319.959403	5250-5350	PASS
-20	120	5319.975289	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5319.961361	5250-5350	PASS
	120	5320.105000	5250-5350	PASS
	132	5319.990768	5250-5350	PASS

**IEEE 802.11a mode / 5500 ~ 5700MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5499.963521	5475-5725	PASS
40	120	5499.994096	5475-5725	PASS
30	120	5499.954550	5475-5725	PASS
20	120	5500.031000	5475-5725	PASS
10	120	5499.975533	5475-5725	PASS
0	120	5499.999573	5475-5725	PASS
-10	120	5499.986568	5475-5725	PASS
-20	120	5499.983515	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5499.970909	5475-5725	PASS
	120	5500.031000	5475-5725	PASS
	132	5499.990976	5475-5725	PASS

IEEE 802.11a mode / 5500 ~ 5700MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5699.955191	5475-5725	PASS
40	120	5699.995514	5475-5725	PASS
30	120	5699.991911	5475-5725	PASS
20	120	5699.997800	5475-5725	PASS
10	120	5699.980950	5475-5725	PASS
0	120	5699.965169	5475-5725	PASS
-10	120	5699.994521	5475-5725	PASS
-20	120	5699.991580	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5699.957689	5475-5725	PASS
	120	5699.997800	5475-5725	PASS
	132	5699.955894	5475-5725	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.995635	5725-5850	PASS
40	120	5744.979056	5725-5850	PASS
30	120	5744.996094	5725-5850	PASS
20	120	5744.998292	5725-5850	PASS
10	120	5744.968912	5725-5850	PASS
0	120	5744.952864	5725-5850	PASS
-10	120	5744.965735	5725-5850	PASS
-20	120	5744.952694	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.987648	5725-5850	PASS
	120	5744.998292	5725-5850	PASS
	132	5744.951460	5725-5850	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.950980	5725-5850	PASS
40	120	5824.964582	5725-5850	PASS
30	120	5824.959615	5725-5850	PASS
20	120	5824.997670	5725-5850	PASS
10	120	5824.971877	5725-5850	PASS
0	120	5824.962943	5725-5850	PASS
-10	120	5824.988165	5725-5850	PASS
-20	120	5824.968525	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.970796	5725-5850	PASS
	120	5824.997670	5725-5850	PASS
	132	5824.970029	5725-5850	PASS

**Antenna 1****IEEE 802.11a MHz mode / 5180 ~ 5240MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.995870	5150-5250	PASS
40	120	5179.985343	5150-5250	PASS
30	120	5179.974994	5150-5250	PASS
20	120	5179.982000	5150-5250	PASS
10	120	5179.991420	5150-5250	PASS
0	120	5179.973534	5150-5250	PASS
-10	120	5179.955436	5150-5250	PASS
-20	120	5179.956792	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.995400	5150-5250	PASS
	120	5179.982000	5150-5250	PASS
	132	5179.968286	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	5239.971104	5150-5250	PASS
40	120	5239.988721	5150-5250	PASS
30	120	5239.960655	5150-5250	PASS
20	120	5240.013000	5150-5250	PASS
10	120	5239.957468	5150-5250	PASS
0	120	5239.966593	5150-5250	PASS
-10	120	5239.981312	5150-5250	PASS
-20	120	5239.978715	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.989794	5150-5250	PASS
	120	5240.013000	5150-5250	PASS
	132	5239.977231	5150-5250	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5259.998438	5250-5350	PASS
40	120	5259.954319	5250-5350	PASS
30	120	5259.972276	5250-5350	PASS
20	120	5260.003200	5250-5350	PASS
10	120	5259.962686	5250-5350	PASS
0	120	5259.993574	5250-5350	PASS
-10	120	5259.983772	5250-5350	PASS
-20	120	5259.961716	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5259.973635	5250-5350	PASS
	120	5260.003200	5250-5350	PASS
	132	5259.984049	5250-5350	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5319.959137	5250-5350	PASS
40	120	5319.964184	5250-5350	PASS
30	120	5319.972022	5250-5350	PASS
20	120	5320.015600	5250-5350	PASS
10	120	5319.954705	5250-5350	PASS
0	120	5319.959134	5250-5350	PASS
-10	120	5319.996712	5250-5350	PASS
-20	120	5319.952627	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5319.997042	5250-5350	PASS
	120	5320.015600	5250-5350	PASS
	132	5319.966961	5250-5350	PASS

**IEEE 802.11a mode / 5500 ~ 5700MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5499.993385	5475-5725	PASS
40	120	5499.971909	5475-5725	PASS
30	120	5499.992352	5475-5725	PASS
20	120	5500.002700	5475-5725	PASS
10	120	5499.997612	5475-5725	PASS
0	120	5499.972872	5475-5725	PASS
-10	120	5499.962709	5475-5725	PASS
-20	120	5499.983531	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5499.958510	5475-5725	PASS
	120	5500.002700	5475-5725	PASS
	132	5499.977305	5475-5725	PASS

IEEE 802.11a mode / 5500 ~ 5700MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5699.995622	5475-5725	PASS
40	120	5699.972584	5475-5725	PASS
30	120	5699.980229	5475-5725	PASS
20	120	5699.996700	5475-5725	PASS
10	120	5699.952617	5475-5725	PASS
0	120	5699.953832	5475-5725	PASS
-10	120	5699.973141	5475-5725	PASS
-20	120	5699.977729	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5699.981080	5475-5725	PASS
	120	5699.996700	5475-5725	PASS
	132	5699.963277	5475-5725	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.974155	5725-5850	PASS
40	120	5744.987534	5725-5850	PASS
30	120	5744.952666	5725-5850	PASS
20	120	5744.997960	5725-5850	PASS
10	120	5744.979524	5725-5850	PASS
0	120	5744.962308	5725-5850	PASS
-10	120	5744.998117	5725-5850	PASS
-20	120	5744.982477	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.996520	5725-5850	PASS
	120	5744.997960	5725-5850	PASS
	132	5744.966354	5725-5850	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.974064	5725-5850	PASS
40	120	5824.995357	5725-5850	PASS
30	120	5824.992739	5725-5850	PASS
20	120	5824.997200	5725-5850	PASS
10	120	5824.984588	5725-5850	PASS
0	120	5824.992755	5725-5850	PASS
-10	120	5824.960013	5725-5850	PASS
-20	120	5824.986456	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.996226	5725-5850	PASS
	120	5824.997200	5725-5850	PASS
	132	5824.998883	5725-5850	PASS

**Antenna 0****IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.990072	5150-5250	PASS
40	120	5179.986346	5150-5250	PASS
30	120	5179.957575	5150-5250	PASS
20	120	5179.997500	5150-5250	PASS
10	120	5179.969055	5150-5250	PASS
0	120	5179.995021	5150-5250	PASS
-10	120	5179.997058	5150-5250	PASS
-20	120	5179.991396	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.953143	5150-5250	PASS
	120	5179.997500	5150-5250	PASS
	132	5179.989015	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	5239.965099	5150-5250	PASS
40	120	5239.969772	5150-5250	PASS
30	120	5239.987584	5150-5250	PASS
20	120	5239.991900	5150-5250	PASS
10	120	5239.982147	5150-5250	PASS
0	120	5239.962593	5150-5250	PASS
-10	120	5239.966521	5150-5250	PASS
-20	120	5239.955844	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.951742	5150-5250	PASS
	120	5239.991900	5150-5250	PASS
	132	5239.973981	5150-5250	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5259.984986	5250-5350	PASS
40	120	5259.965958	5250-5350	PASS
30	120	5259.961509	5250-5350	PASS
20	120	5259.997200	5250-5350	PASS
10	120	5259.972585	5250-5350	PASS
0	120	5259.986600	5250-5350	PASS
-10	120	5259.968626	5250-5350	PASS
-20	120	5259.964181	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5259.979799	5250-5350	PASS
	120	5259.997200	5250-5350	PASS
	132	5259.988016	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	5319.995636	5250-5350	PASS
40	120	5319.973896	5250-5350	PASS
30	120	5319.986847	5250-5350	PASS
20	120	5319.993500	5250-5350	PASS
10	120	5319.999933	5250-5350	PASS
0	120	5319.977067	5250-5350	PASS
-10	120	5319.971523	5250-5350	PASS
-20	120	5319.987465	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5319.983876	5250-5350	PASS
	120	5319.993500	5250-5350	PASS
	132	5319.960398	5250-5350	PASS

**IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5499.978152	5475-5725	PASS
40	120	5499.987615	5475-5725	PASS
30	120	5499.967673	5475-5725	PASS
20	120	5499.997800	5475-5725	PASS
10	120	5499.991906	5475-5725	PASS
0	120	5499.989884	5475-5725	PASS
-10	120	5499.970319	5475-5725	PASS
-20	120	5499.976120	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5499.973398	5475-5725	PASS
	120	5499.997800	5475-5725	PASS
	132	5499.955138	5475-5725	PASS

IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5699.985060	5475-5725	PASS
40	120	5699.961879	5475-5725	PASS
30	120	5699.996699	5475-5725	PASS
20	120	5699.993800	5475-5725	PASS
10	120	5699.981187	5475-5725	PASS
0	120	5699.973450	5475-5725	PASS
-10	120	5699.972621	5475-5725	PASS
-20	120	5699.969177	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5699.955469	5475-5725	PASS
	120	5699.993800	5475-5725	PASS
	132	5699.954795	5475-5725	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.996911	5725-5850	PASS
40	120	5744.991105	5725-5850	PASS
30	120	5744.967329	5725-5850	PASS
20	120	5744.998220	5725-5850	PASS
10	120	5744.985750	5725-5850	PASS
0	120	5744.967548	5725-5850	PASS
-10	120	5744.962634	5725-5850	PASS
-20	120	5744.989422	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.954236	5725-5850	PASS
	120	5744.998220	5725-5850	PASS
	132	5744.983448	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	5824.984725	5725-5850	PASS
40	120	5824.959606	5725-5850	PASS
30	120	5824.986315	5725-5850	PASS
20	120	5824.997620	5725-5850	PASS
10	120	5824.964842	5725-5850	PASS
0	120	5824.958274	5725-5850	PASS
-10	120	5824.985630	5725-5850	PASS
-20	120	5824.966441	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.949332	5725-5850	PASS
	120	5824.997620	5725-5850	PASS
	132	5824.961221	5725-5850	PASS

**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	5179.950340	5150-5250	PASS
40	120	5179.997176	5150-5250	PASS
30	120	5179.965088	5150-5250	PASS
20	120	5179.998200	5150-5250	PASS
10	120	5179.955280	5150-5250	PASS
0	120	5179.967566	5150-5250	PASS
-10	120	5179.993600	5150-5250	PASS
-20	120	5179.959871	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.975005	5150-5250	PASS
	120	5179.998200	5150-5250	PASS
	132	5179.995212	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	5239.957776	5150-5250	PASS
40	120	5239.983479	5150-5250	PASS
30	120	5239.972675	5150-5250	PASS
20	120	5240.003700	5150-5250	PASS
10	120	5239.999182	5150-5250	PASS
0	120	5239.994311	5150-5250	PASS
-10	120	5239.982681	5150-5250	PASS
-20	120	5239.983380	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.978826	5150-5250	PASS
	120	5240.003700	5150-5250	PASS
	132	5239.987656	5150-5250	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5259.981312	5250-5350	PASS
40	120	5259.980143	5250-5350	PASS
30	120	5259.958693	5250-5350	PASS
20	120	5259.993200	5250-5350	PASS
10	120	5259.962991	5250-5350	PASS
0	120	5259.954563	5250-5350	PASS
-10	120	5259.953906	5250-5350	PASS
-20	120	5259.979099	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5259.982967	5250-5350	PASS
	120	5259.993200	5250-5350	PASS
	132	5259.970071	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	5319.994418	5250-5350	PASS
40	120	5319.952041	5250-5350	PASS
30	120	5319.979649	5250-5350	PASS
20	120	5319.992600	5250-5350	PASS
10	120	5319.974624	5250-5350	PASS
0	120	5319.990642	5250-5350	PASS
-10	120	5319.970086	5250-5350	PASS
-20	120	5319.978346	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5319.954072	5250-5350	PASS
	120	5319.992600	5250-5350	PASS
	132	5319.972146	5250-5350	PASS

**IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5499.991461	5475-5725	PASS
40	120	5499.990648	5475-5725	PASS
30	120	5499.990793	5475-5725	PASS
20	120	5499.993000	5475-5725	PASS
10	120	5499.977431	5475-5725	PASS
0	120	5499.976386	5475-5725	PASS
-10	120	5499.994038	5475-5725	PASS
-20	120	5499.967968	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5499.979164	5475-5725	PASS
	120	5499.993000	5475-5725	PASS
	132	5499.999290	5475-5725	PASS

IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5699.984343	5475-5725	PASS
40	120	5699.950261	5475-5725	PASS
30	120	5699.981209	5475-5725	PASS
20	120	5699.998900	5475-5725	PASS
10	120	5699.955361	5475-5725	PASS
0	120	5699.981313	5475-5725	PASS
-10	120	5699.975330	5475-5725	PASS
-20	120	5699.980181	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5699.980892	5475-5725	PASS
	120	5699.998900	5475-5725	PASS
	132	5699.971213	5475-5725	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.971801	5725-5850	PASS
40	120	5744.988598	5725-5850	PASS
30	120	5744.957522	5725-5850	PASS
20	120	5744.996000	5725-5850	PASS
10	120	5744.965975	5725-5850	PASS
0	120	5744.989382	5725-5850	PASS
-10	120	5744.989943	5725-5850	PASS
-20	120	5744.969284	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.968352	5725-5850	PASS
	120	5744.996000	5725-5850	PASS
	132	5744.968839	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	5824.962496	5725-5850	PASS
40	120	5824.959503	5725-5850	PASS
30	120	5824.990046	5725-5850	PASS
20	120	5824.997800	5725-5850	PASS
10	120	5824.999300	5725-5850	PASS
0	120	5824.973289	5725-5850	PASS
-10	120	5824.996591	5725-5850	PASS
-20	120	5824.991535	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.985442	5725-5850	PASS
	120	5824.997800	5725-5850	PASS
	132	5824.980815	5725-5850	PASS

**Antenna 0****IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5189.972036	5150-5250	PASS
40	120	5189.996490	5150-5250	PASS
30	120	5189.992157	5150-5250	PASS
20	120	5189.996200	5150-5250	PASS
10	120	5189.980625	5150-5250	PASS
0	120	5189.952976	5150-5250	PASS
-10	120	5189.973863	5150-5250	PASS
-20	120	5189.958522	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5189.950477	5150-5250	PASS
	120	5189.996200	5150-5250	PASS
	132	5189.955624	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	5229.997308	5150-5250	PASS
40	120	5229.996385	5150-5250	PASS
30	120	5229.998497	5150-5250	PASS
20	120	5230.003800	5150-5250	PASS
10	120	5229.998718	5150-5250	PASS
0	120	5229.952344	5150-5250	PASS
-10	120	5229.964460	5150-5250	PASS
-20	120	5229.989282	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5229.961918	5150-5250	PASS
	120	5230.003800	5150-5250	PASS
	132	5229.949073	5150-5250	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5269.952654	5250-5350	PASS
40	120	5269.960282	5250-5350	PASS
30	120	5269.955391	5250-5350	PASS
20	120	5270.005300	5250-5350	PASS
10	120	5269.985941	5250-5350	PASS
0	120	5269.958079	5250-5350	PASS
-10	120	5269.988832	5250-5350	PASS
-20	120	5269.955848	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5269.973587	5250-5350	PASS
	120	5270.005300	5250-5350	PASS
	132	5269.962809	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	5309.969351	5250-5350	PASS
40	120	5309.954344	5250-5350	PASS
30	120	5309.959617	5250-5350	PASS
20	120	5310.022000	5250-5350	PASS
10	120	5309.960764	5250-5350	PASS
0	120	5309.974516	5250-5350	PASS
-10	120	5309.994275	5250-5350	PASS
-20	120	5309.954582	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5309.956625	5250-5350	PASS
	120	5310.022000	5250-5350	PASS
	132	5309.970124	5250-5350	PASS

**IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5509.987437	5475-5725	PASS
40	120	5509.985007	5475-5725	PASS
30	120	5509.952477	5475-5725	PASS
20	120	5510.059000	5475-5725	PASS
10	120	5509.967140	5475-5725	PASS
0	120	5509.951838	5475-5725	PASS
-10	120	5509.961637	5475-5725	PASS
-20	120	5509.970842	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5509.954043	5475-5725	PASS
	120	5510.059000	5475-5725	PASS
	132	5509.966504	5475-5725	PASS

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5669.991300	5475-5725	PASS
40	120	5669.955114	5475-5725	PASS
30	120	5669.965820	5475-5725	PASS
20	120	5670.022200	5475-5725	PASS
10	120	5669.954937	5475-5725	PASS
0	120	5669.988838	5475-5725	PASS
-10	120	5669.963973	5475-5725	PASS
-20	120	5669.961084	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5669.970521	5475-5725	PASS
	120	5670.022200	5475-5725	PASS
	132	5669.980670	5475-5725	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5754.957212	5725-5850	PASS
40	120	5754.975282	5725-5850	PASS
30	120	5754.950168	5725-5850	PASS
20	120	5754.996410	5725-5850	PASS
10	120	5754.953559	5725-5850	PASS
0	120	5754.994874	5725-5850	PASS
-10	120	5754.965504	5725-5850	PASS
-20	120	5754.984799	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5754.966442	5725-5850	PASS
	120	5754.996410	5725-5850	PASS
	132	5754.960628	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	5794.968441	5725-5850	PASS
40	120	5794.997157	5725-5850	PASS
30	120	5794.991140	5725-5850	PASS
20	120	5794.999200	5725-5850	PASS
10	120	5794.981060	5725-5850	PASS
0	120	5794.968781	5725-5850	PASS
-10	120	5794.957560	5725-5850	PASS
-20	120	5794.966177	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5794.983363	5725-5850	PASS
	120	5794.999200	5725-5850	PASS
	132	5794.997784	5725-5850	PASS

**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	5189.949651	5150-5250	PASS
40	120	5189.957938	5150-5250	PASS
30	120	5189.991723	5150-5250	PASS
20	120	5189.988000	5150-5250	PASS
10	120	5189.987634	5150-5250	PASS
0	120	5189.985996	5150-5250	PASS
-10	120	5189.981626	5150-5250	PASS
-20	120	5189.980927	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5189.977047	5150-5250	PASS
	120	5189.988000	5150-5250	PASS
	132	5189.987760	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	5229.992676	5150-5250	PASS
40	120	5229.981618	5150-5250	PASS
30	120	5229.987255	5150-5250	PASS
20	120	5230.004800	5150-5250	PASS
10	120	5229.969409	5150-5250	PASS
0	120	5229.966929	5150-5250	PASS
-10	120	5229.958887	5150-5250	PASS
-20	120	5229.954437	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5229.997347	5150-5250	PASS
	120	5230.004800	5150-5250	PASS
	132	5229.950768	5150-5250	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5269.953659	5250-5350	PASS
40	120	5269.973058	5250-5350	PASS
30	120	5269.967160	5250-5350	PASS
20	120	5270.003200	5250-5350	PASS
10	120	5269.961174	5250-5350	PASS
0	120	5269.957923	5250-5350	PASS
-10	120	5269.950205	5250-5350	PASS
-20	120	5269.951603	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5269.987083	5250-5350	PASS
	120	5270.003200	5250-5350	PASS
	132	5269.980368	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	5309.981858	5250-5350	PASS
40	120	5309.988901	5250-5350	PASS
30	120	5309.999972	5250-5350	PASS
20	120	5310.015200	5250-5350	PASS
10	120	5309.985907	5250-5350	PASS
0	120	5309.994791	5250-5350	PASS
-10	120	5309.976616	5250-5350	PASS
-20	120	5309.955045	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5309.979112	5250-5350	PASS
	120	5310.015200	5250-5350	PASS
	132	5309.975074	5250-5350	PASS

**IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz (Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5509.965546	5475-5725	PASS
40	120	5509.982410	5475-5725	PASS
30	120	5509.959848	5475-5725	PASS
20	120	5510.002100	5475-5725	PASS
10	120	5509.960297	5475-5725	PASS
0	120	5509.970265	5475-5725	PASS
-10	120	5509.988316	5475-5725	PASS
-20	120	5509.988838	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5509.976563	5475-5725	PASS
	120	5510.002100	5475-5725	PASS
	132	5509.963289	5475-5725	PASS

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5669.962514	5475-5725	PASS
40	120	5669.999774	5475-5725	PASS
30	120	5669.982292	5475-5725	PASS
20	120	5670.038600	5475-5725	PASS
10	120	5669.950477	5475-5725	PASS
0	120	5669.956929	5475-5725	PASS
-10	120	5669.968372	5475-5725	PASS
-20	120	5669.957877	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5669.985093	5475-5725	PASS
	120	5670.038600	5475-5725	PASS
	132	5669.959293	5475-5725	PASS

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

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5754.975927	5725-5850	PASS
40	120	5754.998855	5725-5850	PASS
30	120	5754.982551	5725-5850	PASS
20	120	5754.997860	5725-5850	PASS
10	120	5754.950407	5725-5850	PASS
0	120	5754.972975	5725-5850	PASS
-10	120	5754.995317	5725-5850	PASS
-20	120	5754.956799	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5754.971571	5725-5850	PASS
	120	5754.997860	5725-5850	PASS
	132	5754.979470	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	5794.954526	5725-5850	PASS
40	120	5794.954781	5725-5850	PASS
30	120	5794.958712	5725-5850	PASS
20	120	5794.996300	5725-5850	PASS
10	120	5794.994363	5725-5850	PASS
0	120	5794.974389	5725-5850	PASS
-10	120	5794.988415	5725-5850	PASS
-20	120	5794.974272	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5794.995471	5725-5850	PASS
	120	5794.996300	5725-5850	PASS
	132	5794.986850	5725-5850	PASS

**Antenna 0****IEEE 802.11ac 80 mode / 5210MHz**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5209.958770	5150-5250	PASS
40	120	5209.954059	5150-5250	PASS
30	120	5209.962837	5150-5250	PASS
20	120	5209.989900	5150-5250	PASS
10	120	5209.985875	5150-5250	PASS
0	120	5209.961157	5150-5250	PASS
-10	120	5209.950522	5150-5250	PASS
-20	120	5209.974319	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5209.971653	5150-5250	PASS
	120	5209.989900	5150-5250	PASS
	132	5209.965507	5150-5250	PASS

IEEE 802.11ac 80 mode / 5290MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5289.992063	5250-5350	PASS
40	120	5289.977719	5250-5350	PASS
30	120	5289.975841	5250-5350	PASS
20	120	5289.997720	5250-5350	PASS
10	120	5289.984709	5250-5350	PASS
0	120	5289.972235	5250-5350	PASS
-10	120	5289.959837	5250-5350	PASS
-20	120	5289.998425	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5289.992956	5250-5350	PASS
	120	5289.997720	5250-5350	PASS
	132	5289.973017	5250-5350	PASS

**IEEE 802.11ac 80 mode / 5530MHz****(Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5529.985643	5475-5725	PASS
40	120	5529.973437	5475-5725	PASS
30	120	5529.967894	5475-5725	PASS
20	120	5529.999100	5475-5725	PASS
10	120	5529.995690	5475-5725	PASS
0	120	5529.977380	5475-5725	PASS
-10	120	5529.963745	5475-5725	PASS
-20	120	5529.984451	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5529.966175	5475-5725	PASS
	120	5529.999100	5475-5725	PASS
	132	5529.974870	5475-5725	PASS

IEEE 802.11ac 80 mode / 5775MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5774.960910	5725-5850	PASS
40	120	5774.964734	5725-5850	PASS
30	120	5774.981743	5725-5850	PASS
20	120	5774.996000	5725-5850	PASS
10	120	5774.983166	5725-5850	PASS
0	120	5774.994135	5725-5850	PASS
-10	120	5774.987476	5725-5850	PASS
-20	120	5774.988384	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5774.979685	5725-5850	PASS
	120	5774.996000	5725-5850	PASS
	132	5774.969847	5725-5850	PASS

**Antenna 1****IEEE 802.11ac 80 mode / 5210MHz**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5209.979337	5150-5250	PASS
40	120	5209.962221	5150-5250	PASS
30	120	5209.959054	5150-5250	PASS
20	120	5209.996100	5150-5250	PASS
10	120	5209.994110	5150-5250	PASS
0	120	5209.992832	5150-5250	PASS
-10	120	5209.979350	5150-5250	PASS
-20	120	5209.959469	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5209.977579	5150-5250	PASS
	120	5209.996100	5150-5250	PASS
	132	5209.978463	5150-5250	PASS

IEEE 802.11ac 80 mode / 5290MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5289.995268	5250-5350	PASS
40	120	5289.981764	5250-5350	PASS
30	120	5289.962656	5250-5350	PASS
20	120	5290.003800	5250-5350	PASS
10	120	5289.997556	5250-5350	PASS
0	120	5289.992942	5250-5350	PASS
-10	120	5289.988561	5250-5350	PASS
-20	120	5289.981782	5250-5350	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5289.993751	5250-5350	PASS
	120	5290.003800	5250-5350	PASS
	132	5289.956683	5250-5350	PASS

**IEEE 802.11ac 80 mode / 5530MHz****(Low)**

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5529.973207	5475-5725	PASS
40	120	5529.978795	5475-5725	PASS
30	120	5529.987322	5475-5725	PASS
20	120	5529.998900	5475-5725	PASS
10	120	5529.996112	5475-5725	PASS
0	120	5529.981698	5475-5725	PASS
-10	120	5529.982883	5475-5725	PASS
-20	120	5529.992348	5475-5725	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5529.970081	5475-5725	PASS
	120	5529.998900	5475-5725	PASS
	132	5529.963529	5475-5725	PASS

IEEE 802.11ac 80 mode / 5775MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5774.967573	5725-5850	PASS
40	120	5774.972133	5725-5850	PASS
30	120	5774.952876	5725-5850	PASS
20	120	5774.968000	5725-5850	PASS
10	120	5774.981878	5725-5850	PASS
0	120	5774.989513	5725-5850	PASS
-10	120	5774.997735	5725-5850	PASS
-20	120	5774.990439	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5774.955974	5725-5850	PASS
	120	5774.968000	5725-5850	PASS
	132	5774.988582	5725-5850	PASS