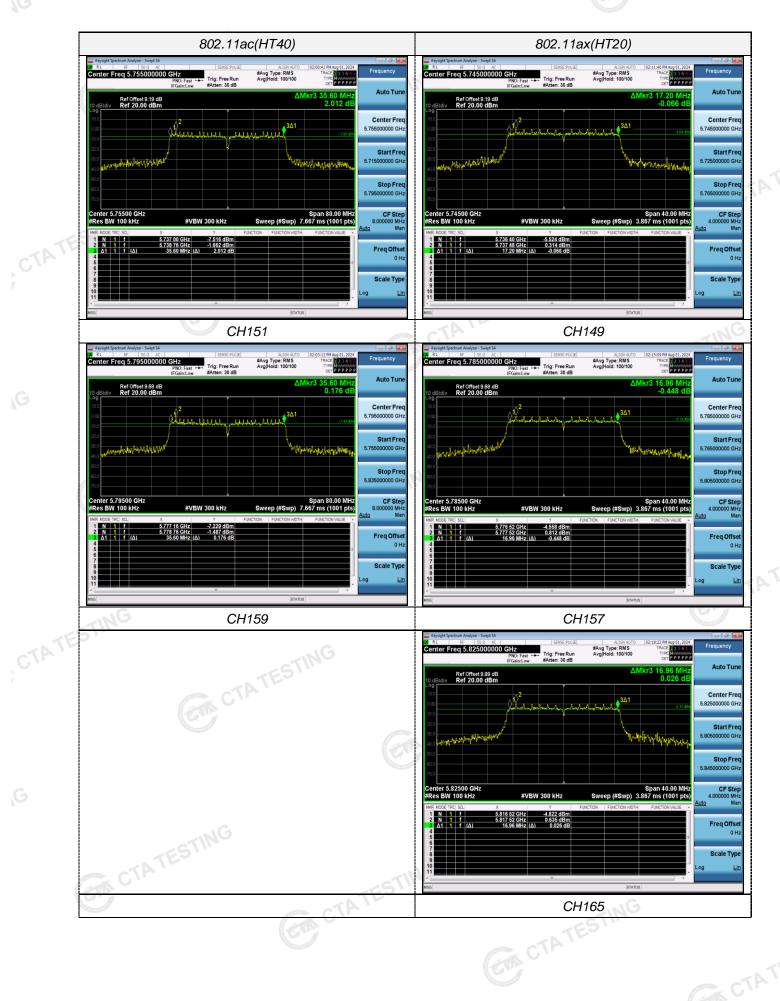
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G

4.7 Frequency Stability

LIMIT

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

TEST CONFIGURATION

Temperature Chamber EUT Spectrum analyzer TESTING Att.

Variable Power Supply

TEST PROCEDURE

Frequency Stability under Temperature Variations:

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 -30°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.

Frequency Stability under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (\pm 15%) and endpoint, record the maximum \mathbb{N}^{G} CTATES frequency change.

TEST RESULTS

Record worst case as below: CTA TESTING

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	F	Reference Frequency	: 802.11ac channe	l=36 frequency=	=5180MHz			
	Voltage (V)	Temperature (℃)	Frequency error		Limit (ppm)	Result		
			Hz	ppm	Linii (ppin)	Result		
	CTA .	-30	110.69	0.021369				
	A CONTRACTOR OF A CONTRACTOR O	-20	174.52	0.033691	TING			
		-10	145.52	0.028093	TES			
		0	146.79	0.028338			CTATE	
	AC 120	10	146.08	0.028201	Within the			
CTATE	STING	20	99.64	0.019236	band of operation	Pass		
		30	167.12	0.032263				
		40	129.59	0.025017				
CTA		50 G	128.81	0.024867				
	AC 132	25	195.58	0.037757				
r	AC 108	25	118.79	0.022932				
	G			ATES		JAN	3	

Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
voltage (v)		Hz	ppm		Result
	-30	135.84	0.023645	Within the band of operation	Pass
	-20	129.51	0.022543		
STI	-10	167.09	0.029084		
TATES	0	169.84	0.029563		
AC 120	10	136.70	0.023795		
Comment of the second	20	144.76	0.025198		
	30	116.83	0.020336		
	40	168.55	0.029339		
	50	160.49	0.027936		
AC 132	25	150.80	0.026249		
AC 108	25	129.54	0.022548		
STING					1000
TESTING	CTATESTING				

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<u>Test Setup Photos of the EUT</u> 5 CTATE:







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