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12.1. Block Diagram of Test Setup

Same as section 8.1

12.2. Limit of Frequency Stability

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 user's manual.

12.3. Test Procedures

(1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.

(2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.

(3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

12.4. Test Result

Voltage								
Test Mode	Ant.	Freq. (MHz)	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-19200.00	-3.706564	20	PASS
			LV	NT	-16800.00	-3.243243	20	PASS
			HV	NT	-16200.00	-3.127413	20	PASS
		5200	NV	NT	-16500.00	-3.173077	20	PASS
			LV	NT	-14700.00	-2.826923	20	PASS
			HV	NT	-12900.00	-2.480769	20	PASS
		5240	NV	NT	-19800.00	-3.778626	20	PASS
			LV	NT	-16800.00	-3.206107	20	PASS
			HV	NT	-14700.00	-2.805344	20	PASS
		5260	NV	NT	-16200.00	-3.079848	20	PASS
			LV	NT	-13200.00	-2.509506	20	PASS
			HV	NT	-11400.00	-2.167300	20	PASS
		5280	NV	NT	-17400.00	-3.295455	20	PASS
			LV	NT	-12600.00	-2.386364	20	PASS
			HV	NT	-11400.00	-2.159091	20	PASS
		5320	NV	NT	-18000.00	-3.383459	20	PASS
			LV	NT	-17100.00	-3.214286	20	PASS
			HV	NT	-12900.00	-2.424812	20	PASS
		5500	NV	NT	-9900.00	-1.800000	20	PASS
			LV	NT	-8100.00	-1.472727	20	PASS
			HV	NT	-6900.00	-1.254545	20	PASS
		5580	NV	NT	-23700.00	-4.247312	20	PASS
			LV	NT	-19500.00	-3.494624	20	PASS
			HV	NT	-18600.00	-3.333333	20	PASS
		5700	NV	NT	-14100.00	-2.473684	20	PASS
			LV	NT	-10500.00	-1.842105	20	PASS
			HV	NT	-8400.00	-1.473684	20	PASS
		5720	NV	NT	-13200.00	-2.307692	20	PASS
			LV	NT	-9600.00	-1.678322	20	PASS
			HV	NT	-9600.00	-1.678322	20	PASS
		5745	NV	NT	-13500.00	-2.349869	20	PASS
			LV	NT	-10500.00	-1.827676	20	PASS