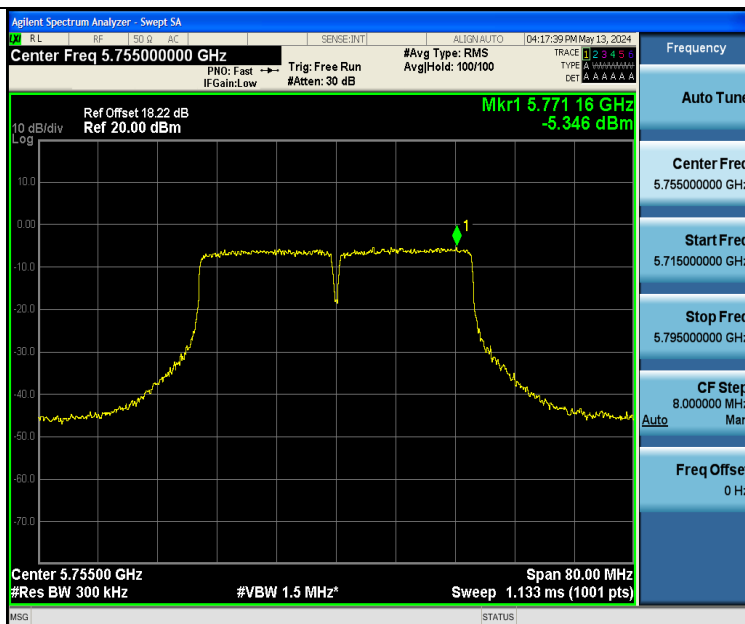
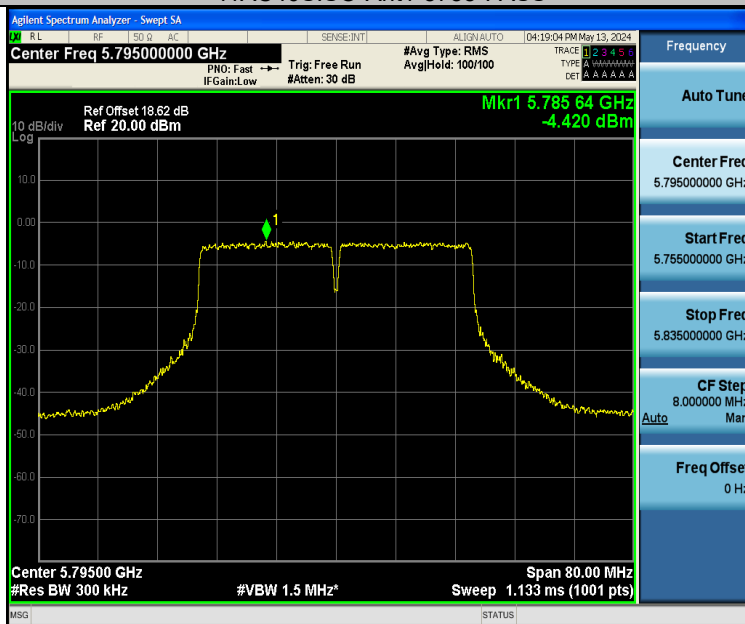




11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS



9.4 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.5 Result

The EUT'S antenna, permanent attached antenna, is PCB Antenna. The antenna's gain is 5.2G:1.75 dBi; 5.8G:1.67 dBi and meets the requirement.



10 Frequency Stability

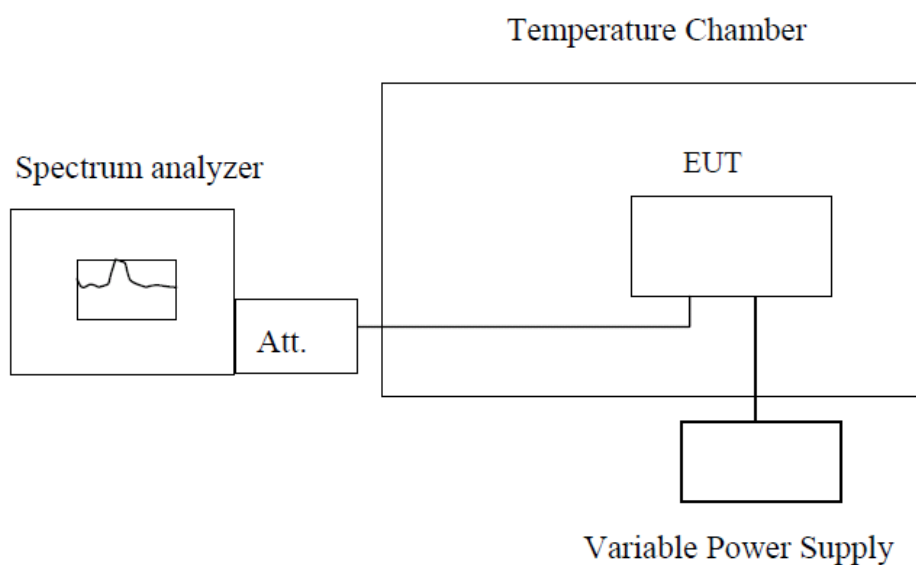
Test Requirement : FCC Part15 E Section 15.407 (g)

Test 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 user's manual.

10.1 Test Procedure

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.

10.2 Test Setup





10.3 Test Result

TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-32000.00	-6.177606	20	PASS
11A	Ant1	5180	LV	NT	-32000.00	-6.177606	20	PASS
11A	Ant1	5180	HV	NT	-32000.00	-6.177606	20	PASS
11N20SISO	Ant1	5180	NV	NT	-30000.00	-5.791506	20	PASS
11N20SISO	Ant1	5180	LV	NT	-30000.00	-5.791506	20	PASS
11N20SISO	Ant1	5180	HV	NT	-30000.00	-5.791506	20	PASS
11AC20SISO	Ant1	5180	NV	NT	-29000.00	-5.598456	20	PASS
11AC20SISO	Ant1	5180	LV	NT	-29000.00	-5.598456	20	PASS
11AC20SISO	Ant1	5180	HV	NT	-29000.00	-5.598456	20	PASS
11A	Ant1	5200	NV	NT	-29000.00	-5.576923	20	PASS
11A	Ant1	5200	LV	NT	-29000.00	-5.576923	20	PASS
11A	Ant1	5200	HV	NT	-29000.00	-5.576923	20	PASS
11N20SISO	Ant1	5200	NV	NT	-29000.00	-5.576923	20	PASS
11N20SISO	Ant1	5200	LV	NT	-29000.00	-5.576923	20	PASS
11N20SISO	Ant1	5200	HV	NT	-29000.00	-5.576923	20	PASS
11AC20SISO	Ant1	5200	NV	NT	-28000.00	-5.384615	20	PASS
11AC20SISO	Ant1	5200	LV	NT	-28000.00	-5.384615	20	PASS
11AC20SISO	Ant1	5200	HV	NT	-28000.00	-5.384615	20	PASS
11A	Ant1	5240	NV	NT	-29000.00	-5.534351	20	PASS
11A	Ant1	5240	LV	NT	-29000.00	-5.534351	20	PASS
11A	Ant1	5240	HV	NT	-29000.00	-5.534351	20	PASS
11N20SISO	Ant1	5240	NV	NT	-29000.00	-5.534351	20	PASS
11N20SISO	Ant1	5240	LV	NT	-29000.00	-5.534351	20	PASS
11N20SISO	Ant1	5240	HV	NT	-29000.00	-5.534351	20	PASS
11AC20SISO	Ant1	5240	NV	NT	-29000.00	-5.534351	20	PASS
11AC20SISO	Ant1	5240	LV	NT	-29000.00	-5.534351	20	PASS
11AC20SISO	Ant1	5240	HV	NT	-29000.00	-5.534351	20	PASS
11A	Ant1	5745	NV	NT	-33000.00	-5.744125	20	PASS
11A	Ant1	5745	LV	NT	-33000.00	-5.744125	20	PASS
11A	Ant1	5745	HV	NT	-33000.00	-5.744125	20	PASS
11N20SISO	Ant1	5745	NV	NT	-33000.00	-5.744125	20	PASS
11N20SISO	Ant1	5745	LV	NT	-34000.00	-5.918190	20	PASS
11N20SISO	Ant1	5745	HV	NT	-34000.00	-5.918190	20	PASS
11AC20SISO	Ant1	5745	NV	NT	-34000.00	-5.918190	20	PASS
11AC20SISO	Ant1	5745	LV	NT	-34000.00	-5.918190	20	PASS
11AC20SISO	Ant1	5745	HV	NT	-34000.00	-5.918190	20	PASS
11A	Ant1	5785	NV	NT	-35000.00	-6.050130	20	PASS
11A	Ant1	5785	LV	NT	-35000.00	-6.050130	20	PASS
11A	Ant1	5785	HV	NT	-35000.00	-6.050130	20	PASS
11N20SISO	Ant1	5785	NV	NT	-35000.00	-6.050130	20	PASS
11N20SISO	Ant1	5785	LV	NT	-35000.00	-6.050130	20	PASS
11N20SISO	Ant1	5785	HV	NT	-35000.00	-6.050130	20	PASS
11AC20SISO	Ant1	5785	NV	NT	-35000.00	-6.050130	20	PASS
11AC20SISO	Ant1	5785	LV	NT	-35000.00	-6.050130	20	PASS
11AC20SISO	Ant1	5785	HV	NT	-35000.00	-6.050130	20	PASS
11A	Ant1	5825	NV	NT	-35000.00	-6.008584	20	PASS
11A	Ant1	5825	LV	NT	-35000.00	-6.008584	20	PASS
11A	Ant1	5825	HV	NT	-35000.00	-6.008584	20	PASS
11N20SISO	Ant1	5825	NV	NT	-35000.00	-6.008584	20	PASS



11N20SISO	Ant1	5825	LV	NT	-35000.00	-6.008584	20	PASS
11N20SISO	Ant1	5825	HV	NT	-35000.00	-6.008584	20	PASS
11AC20SISO	Ant1	5825	NV	NT	-35000.00	-6.008584	20	PASS
11AC20SISO	Ant1	5825	LV	NT	-35000.00	-6.008584	20	PASS
11AC20SISO	Ant1	5825	HV	NT	-35000.00	-6.008584	20	PASS
11N40SISO	Ant1	5190	NV	NT	-28000.00	-5.394990	20	PASS
11N40SISO	Ant1	5190	LV	NT	-30000.00	-5.780347	20	PASS
11N40SISO	Ant1	5190	HV	NT	-31000.00	-5.973025	20	PASS
11AC40SISO	Ant1	5190	NV	NT	-34000.00	-6.551060	20	PASS
11AC40SISO	Ant1	5190	LV	NT	-34000.00	-6.551060	20	PASS
11AC40SISO	Ant1	5190	HV	NT	-35000.00	-6.743738	20	PASS
11N40SISO	Ant1	5230	NV	NT	-33000.00	-6.309751	20	PASS
11N40SISO	Ant1	5230	LV	NT	-34000.00	-6.500956	20	PASS
11N40SISO	Ant1	5230	HV	NT	-33000.00	-6.309751	20	PASS
11AC40SISO	Ant1	5230	NV	NT	-33000.00	-6.309751	20	PASS
11AC40SISO	Ant1	5230	LV	NT	-33000.00	-6.309751	20	PASS
11AC40SISO	Ant1	5230	HV	NT	-33000.00	-6.309751	20	PASS
11N40SISO	Ant1	5755	NV	NT	-36000.00	-6.255430	20	PASS
11N40SISO	Ant1	5755	LV	NT	-36000.00	-6.255430	20	PASS
11N40SISO	Ant1	5755	HV	NT	-36000.00	-6.255430	20	PASS
11AC40SISO	Ant1	5755	NV	NT	-36000.00	-6.255430	20	PASS
11AC40SISO	Ant1	5755	LV	NT	-36000.00	-6.255430	20	PASS
11AC40SISO	Ant1	5755	HV	NT	-36000.00	-6.255430	20	PASS
11N40SISO	Ant1	5795	NV	NT	-36000.00	-6.212252	20	PASS
11N40SISO	Ant1	5795	LV	NT	-36000.00	-6.212252	20	PASS
11N40SISO	Ant1	5795	HV	NT	-36000.00	-6.212252	20	PASS
11AC40SISO	Ant1	5795	NV	NT	-37000.00	-6.384814	20	PASS
11AC40SISO	Ant1	5795	LV	NT	-36000.00	-6.212252	20	PASS
11AC40SISO	Ant1	5795	HV	NT	-37000.00	-6.384814	20	PASS



TestMode	Antenna	Channel	Temperature					
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	40000.00	7.722008	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	40000.00	7.722008	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
		5220	NV	50	40000.00	7.722008	20	PASS
			NV	-30	40000.00	7.662835	20	PASS
			NV	-20	40000.00	7.662835	20	PASS
			NV	-10	40000.00	7.662835	20	PASS
			NV	0	40000.00	7.662835	20	PASS
			NV	10	40000.00	7.662835	20	PASS
			NV	20	40000.00	7.662835	20	PASS
			NV	30	40000.00	7.662835	20	PASS
		5240	NV	40	40000.00	7.662835	20	PASS
			NV	50	40000.00	7.662835	20	PASS
			NV	-30	40000.00	7.633588	20	PASS
			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
		5745	NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	40000.00	7.633588	20	PASS
			NV	-30	40000.00	6.962576	20	PASS
			NV	-20	40000.00	6.962576	20	PASS
			NV	-10	40000.00	6.962576	20	PASS
			NV	0	40000.00	6.962576	20	PASS
			NV	10	40000.00	6.962576	20	PASS
		5785	NV	20	40000.00	6.962576	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	40000.00	6.962576	20	PASS
			NV	50	40000.00	6.962576	20	PASS
			NV	-30	40000.00	6.914434	20	PASS
			NV	-20	40000.00	6.914434	20	PASS
			NV	-10	40000.00	6.914434	20	PASS
			NV	0	40000.00	6.914434	20	PASS
		5825	NV	10	40000.00	6.914434	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	30	40000.00	6.914434	20	PASS
			NV	40	40000.00	6.914434	20	PASS
			NV	50	40000.00	6.914434	20	PASS
			NV	-30	40000.00	6.866953	20	PASS
			NV	-20	40000.00	6.866953	20	PASS
			NV	-10	40000.00	6.866953	20	PASS
			NV	0	40000.00	6.866953	20	PASS
			NV	10	40000.00	6.866953	20	PASS
			NV	20	40000.00	6.866953	20	PASS



			NV	30	40000.00	6.866953	20	PASS
			NV	40	40000.00	6.866953	20	PASS
			NV	50	40000.00	6.866953	20	PASS
11N20SIS O	Ant1	5180	NV	-30	40000.00	7.722008	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	40000.00	7.722008	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
			NV	50	40000.00	7.722008	20	PASS
		5220	NV	-30	40000.00	7.662835	20	PASS
			NV	-20	40000.00	7.662835	20	PASS
			NV	-10	40000.00	7.662835	20	PASS
			NV	0	40000.00	7.662835	20	PASS
			NV	10	40000.00	7.662835	20	PASS
			NV	20	40000.00	7.662835	20	PASS
			NV	30	40000.00	7.662835	20	PASS
			NV	40	40000.00	7.662835	20	PASS
			NV	50	40000.00	7.662835	20	PASS
		5240	NV	-30	40000.00	7.633588	20	PASS
			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	40000.00	7.633588	20	PASS
		5745	NV	-30	40000.00	6.962576	20	PASS
			NV	-20	40000.00	6.962576	20	PASS
			NV	-10	40000.00	6.962576	20	PASS
			NV	0	40000.00	6.962576	20	PASS
			NV	10	40000.00	6.962576	20	PASS
			NV	20	40000.00	6.962576	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	40000.00	6.962576	20	PASS
			NV	50	40000.00	6.962576	20	PASS
		5785	NV	-30	40000.00	6.914434	20	PASS
			NV	-20	40000.00	6.914434	20	PASS
			NV	-10	40000.00	6.914434	20	PASS
			NV	0	40000.00	6.914434	20	PASS
			NV	10	40000.00	6.914434	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	30	40000.00	6.914434	20	PASS
			NV	40	40000.00	6.914434	20	PASS
			NV	50	40000.00	6.914434	20	PASS
		5825	NV	-30	40000.00	6.866953	20	PASS
			NV	-20	40000.00	6.866953	20	PASS
			NV	-10	40000.00	6.866953	20	PASS
			NV	0	40000.00	6.866953	20	PASS
			NV	10	40000.00	6.866953	20	PASS
			NV	20	40000.00	6.866953	20	PASS
			NV	30	40000.00	6.866953	20	PASS
			NV	40	40000.00	6.866953	20	PASS



			NV	50	40000.00	6.866953	20	PASS
11N40SIS O	Ant1	5190	NV	-30	40000.00	7.707129	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	40000.00	7.707129	20	PASS
			NV	40	40000.00	7.707129	20	PASS
		5230	NV	50	40000.00	7.707129	20	PASS
			NV	-30	40000.00	7.648184	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	40000.00	7.648184	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	40000.00	7.648184	20	PASS
			NV	20	40000.00	7.648184	20	PASS
			NV	30	40000.00	7.648184	20	PASS
		5755	NV	40	40000.00	7.648184	20	PASS
			NV	50	40000.00	7.648184	20	PASS
			NV	-30	40000.00	6.950478	20	PASS
			NV	-20	40000.00	6.950478	20	PASS
			NV	-10	40000.00	6.950478	20	PASS
			NV	0	40000.00	6.950478	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	40000.00	6.950478	20	PASS
		5795	NV	30	40000.00	6.950478	20	PASS
			NV	40	40000.00	6.950478	20	PASS
			NV	50	40000.00	6.950478	20	PASS
			NV	-30	40000.00	6.902502	20	PASS
			NV	-20	40000.00	6.902502	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	40000.00	6.902502	20	PASS
			NV	10	40000.00	6.902502	20	PASS
11AC20SIS O	Ant1	5180	NV	20	40000.00	6.902502	20	PASS
			NV	30	40000.00	6.902502	20	PASS
			NV	40	40000.00	6.902502	20	PASS
			NV	50	40000.00	6.902502	20	PASS
			NV	-30	40000.00	7.722008	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	40000.00	7.722008	20	PASS
		5220	NV	10	40000.00	7.722008	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
			NV	50	40000.00	7.722008	20	PASS
			NV	-30	40000.00	7.662835	20	PASS
			NV	-20	40000.00	7.662835	20	PASS
			NV	-10	40000.00	7.662835	20	PASS
			NV	0	40000.00	7.662835	20	PASS
		5240	NV	10	40000.00	7.662835	20	PASS
			NV	20	40000.00	7.662835	20	PASS
			NV	30	40000.00	7.662835	20	PASS
			NV	40	40000.00	7.662835	20	PASS
			NV	50	40000.00	7.662835	20	PASS
			NV	-30	40000.00	7.633588	20	PASS



			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	40000.00	7.633588	20	PASS
		5745	NV	-30	40000.00	6.962576	20	PASS
			NV	-20	40000.00	6.962576	20	PASS
			NV	-10	40000.00	6.962576	20	PASS
			NV	0	40000.00	6.962576	20	PASS
			NV	10	40000.00	6.962576	20	PASS
			NV	20	40000.00	6.962576	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	40000.00	6.962576	20	PASS
		5785	NV	50	40000.00	6.962576	20	PASS
			NV	-30	40000.00	6.914434	20	PASS
			NV	-20	40000.00	6.914434	20	PASS
			NV	-10	40000.00	6.914434	20	PASS
			NV	0	40000.00	6.914434	20	PASS
			NV	10	40000.00	6.914434	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	30	40000.00	6.914434	20	PASS
		5825	NV	40	40000.00	6.914434	20	PASS
			NV	50	40000.00	6.914434	20	PASS
			NV	-30	40000.00	6.866953	20	PASS
			NV	-20	40000.00	6.866953	20	PASS
			NV	-10	40000.00	6.866953	20	PASS
			NV	0	40000.00	6.866953	20	PASS
			NV	10	40000.00	6.866953	20	PASS
			NV	20	40000.00	6.866953	20	PASS
11AC40SIS O	Ant1	5190	NV	30	40000.00	6.866953	20	PASS
			NV	40	40000.00	6.866953	20	PASS
			NV	-30	40000.00	7.707129	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
		5230	NV	30	40000.00	7.707129	20	PASS
			NV	40	40000.00	7.707129	20	PASS
			NV	-30	40000.00	7.648184	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	40000.00	7.648184	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	40000.00	7.648184	20	PASS
			NV	20	40000.00	7.648184	20	PASS
		5755	NV	30	40000.00	7.648184	20	PASS
			NV	40	40000.00	7.648184	20	PASS
			NV	-30	40000.00	6.950478	20	PASS
			NV	-20	40000.00	6.950478	20	PASS
			NV	-10	40000.00	6.950478	20	PASS



Report No.: PTC24030500102E-FC04

			NV	0	40000.00	6.950478	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	40000.00	6.950478	20	PASS
			NV	30	40000.00	6.950478	20	PASS
			NV	40	40000.00	6.950478	20	PASS
			NV	50	40000.00	6.950478	20	PASS
		5795	NV	-30	40000.00	6.902502	20	PASS
			NV	-20	40000.00	6.902502	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	40000.00	6.902502	20	PASS
			NV	10	40000.00	6.902502	20	PASS
			NV	20	40000.00	6.902502	20	PASS
			NV	30	40000.00	6.902502	20	PASS
			NV	40	40000.00	6.902502	20	PASS
			NV	50	40000.00	6.902502	20	PASS
			NV	50	0.00	0.000000	20	PASS

11 Test Setup

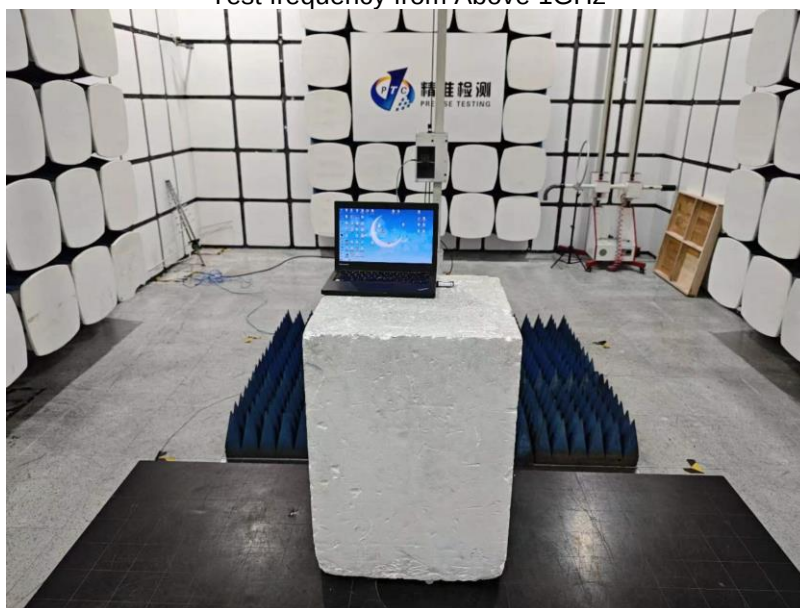
Conducted Emissions



Radiated Spurious Emissions
From 30MHz-1000MHz

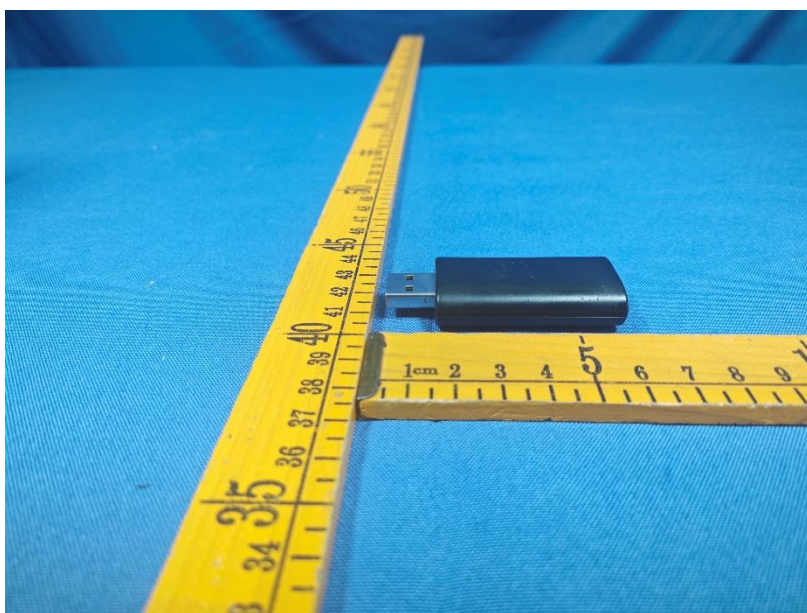
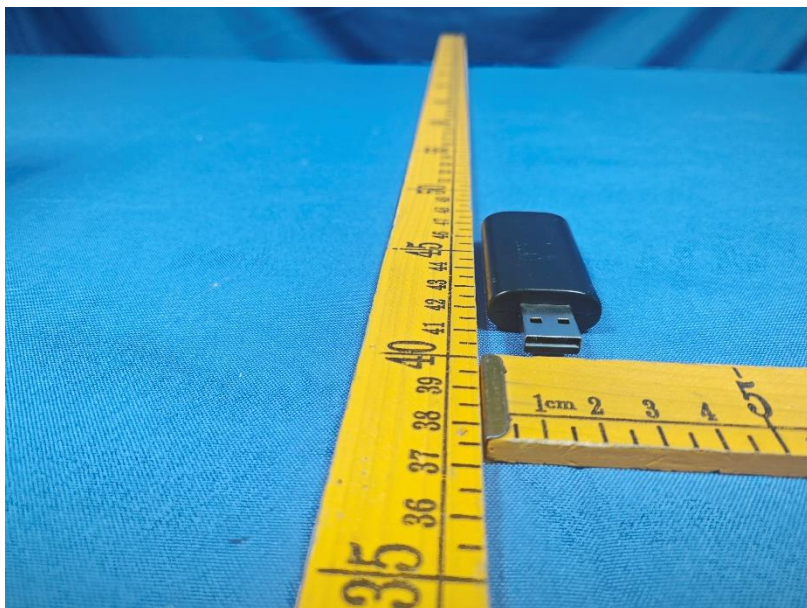


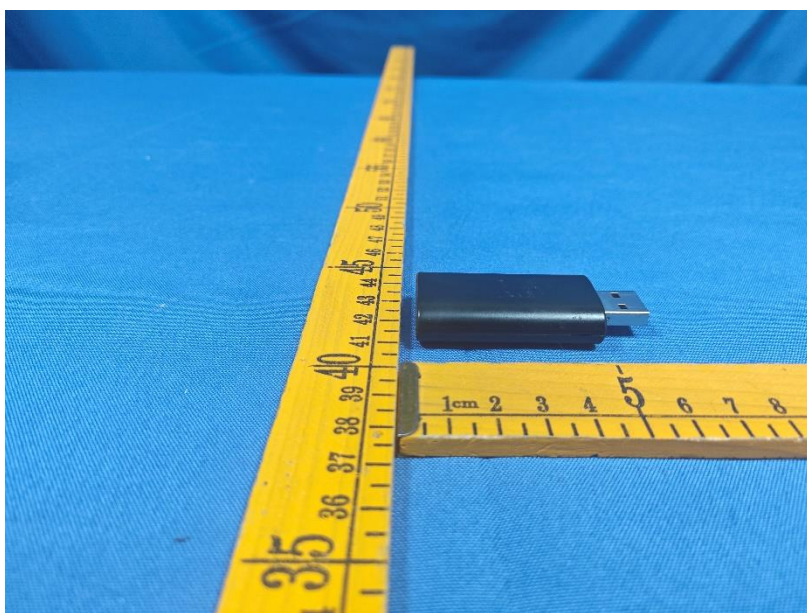
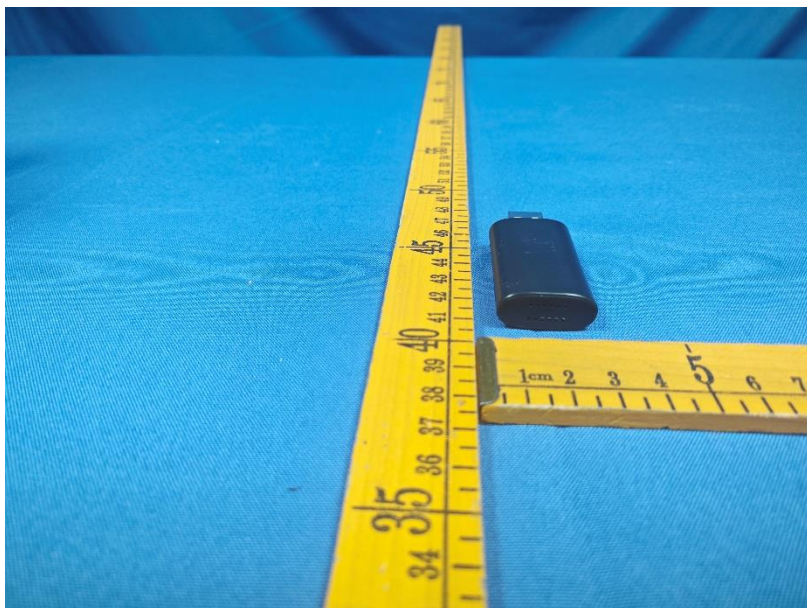
Test frequency from Above 1GHz

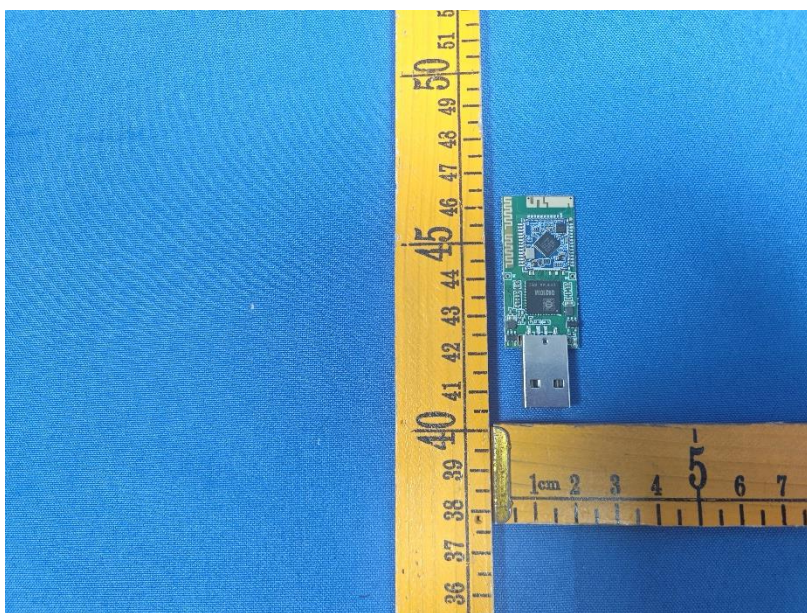
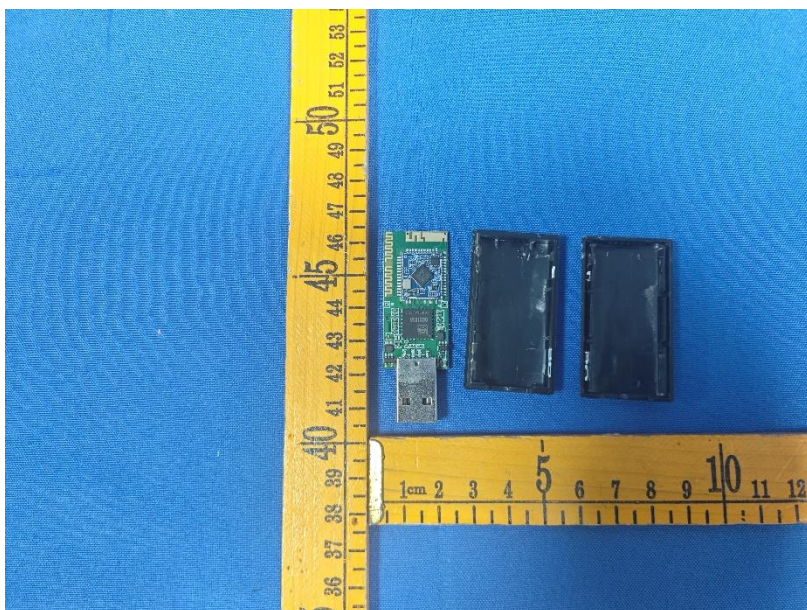


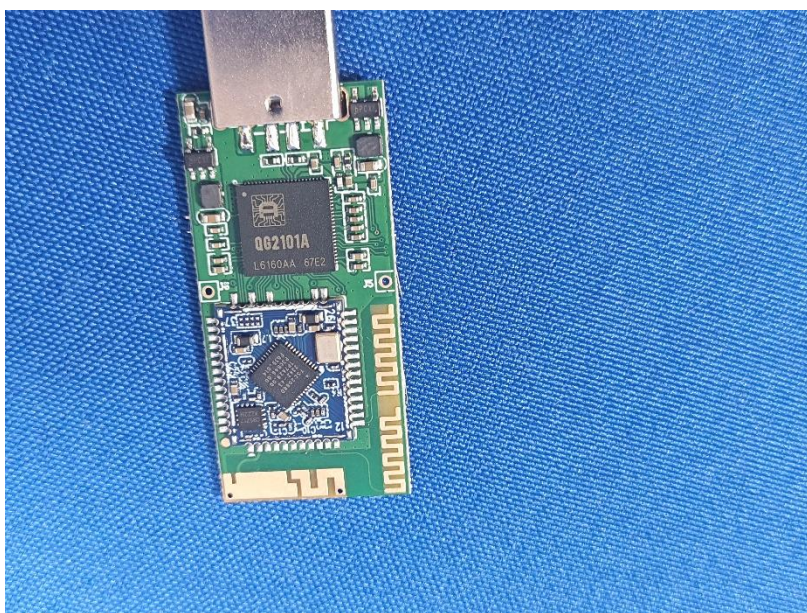
12 EUT PHOTOS

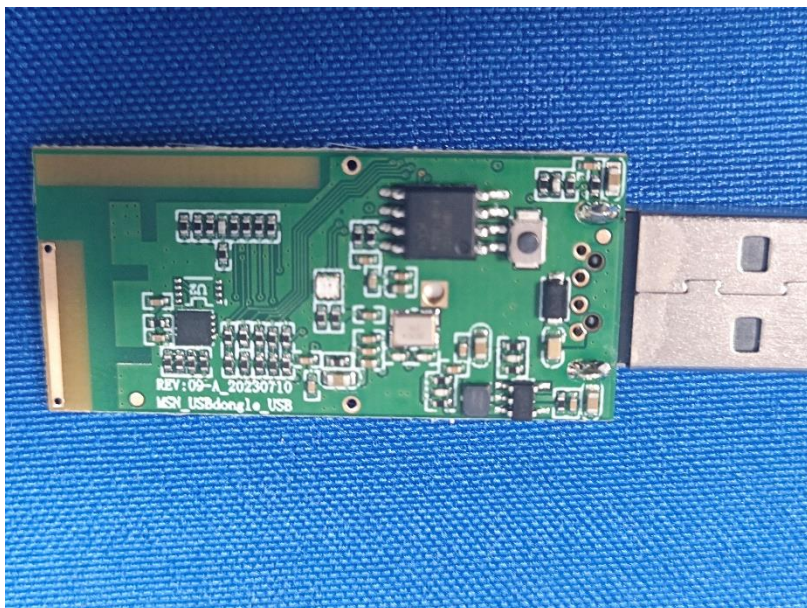












*******THE END REPORT*******