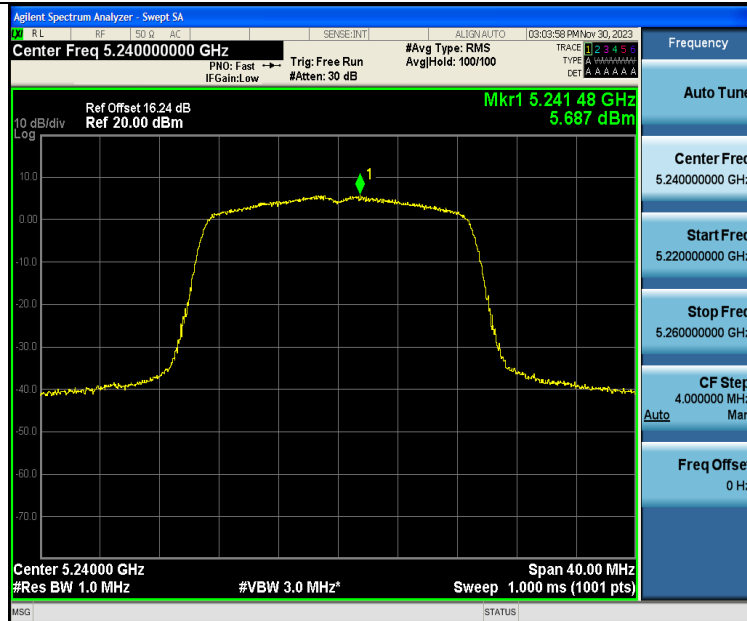
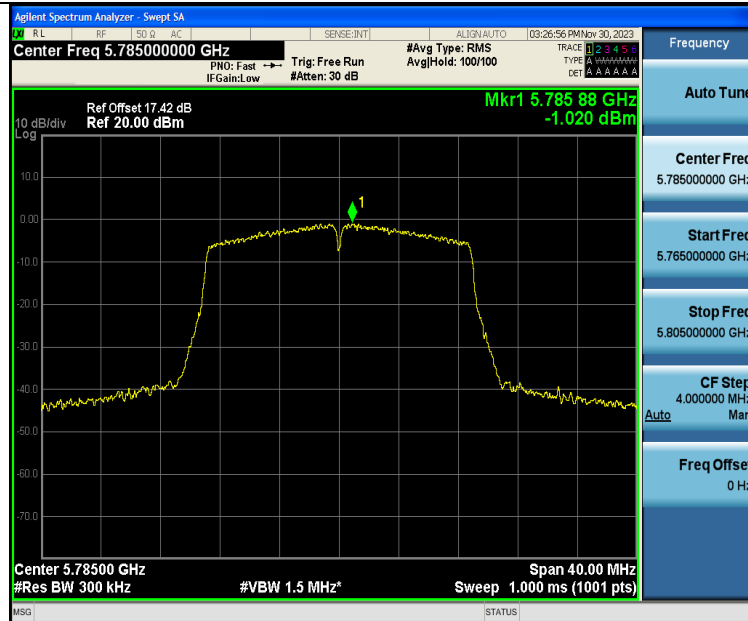




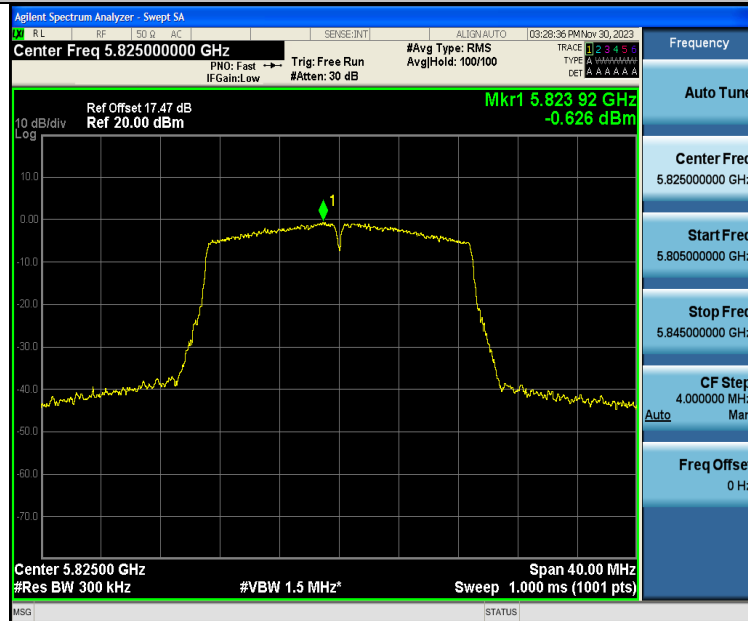
11AC20SISO-Ant1-5240-PASS



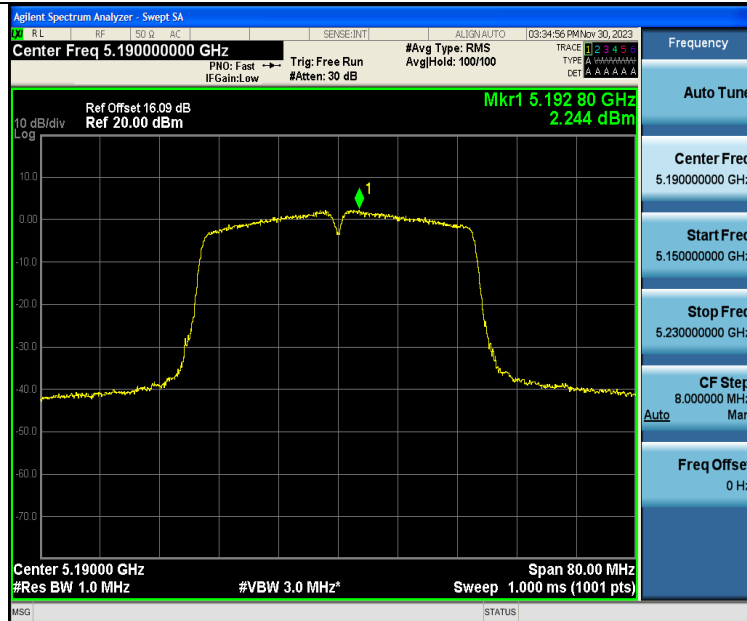
11AC20SISO-Ant1-5745-PASS



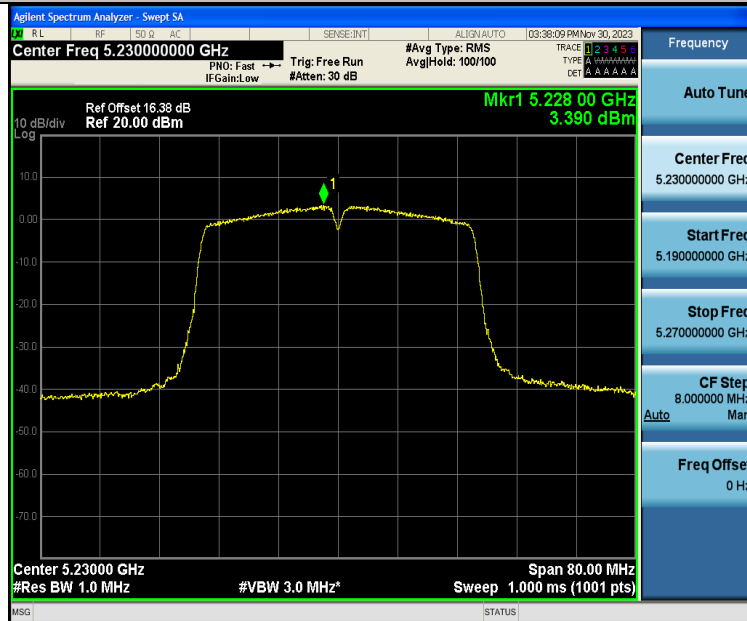
11AC20SISO-Ant1-5785-PASS



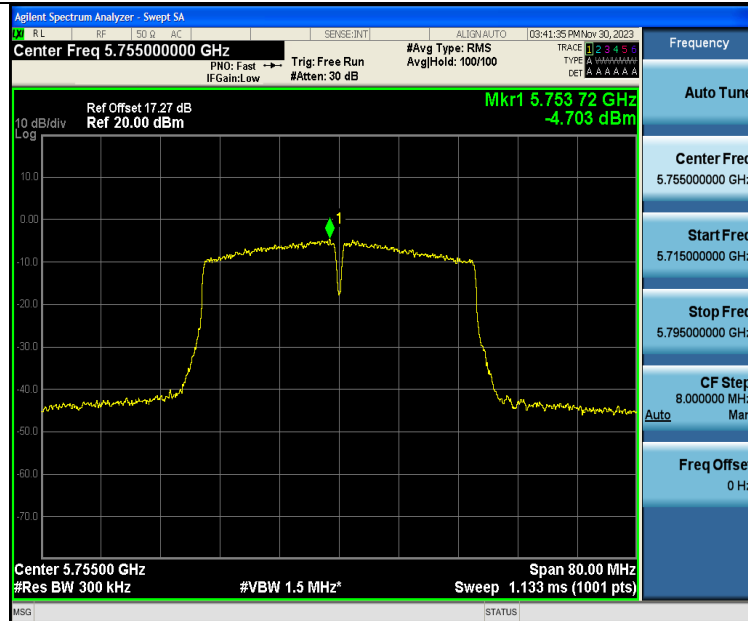
11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5190-PASS



11AC40SISO-Ant1-5230-PASS



11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS



11AC80SISO-Ant1-5210-PASS



11AC80SISO-Ant1-5775-PASS

9.3 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.

9.4 Result

The EUT'S antenna, permanent attached antenna, is FPC Antenna. The antenna's gain is -3 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 Result

TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-9000.00	-1.737452	20	PASS
11A	Ant1	5180	LV	NT	-10000.00	-1.930502	20	PASS
11A	Ant1	5180	HV	NT	-10000.00	-1.930502	20	PASS
11A	Ant1	5200	NV	NT	-12000.00	-2.307692	20	PASS
11A	Ant1	5200	LV	NT	-12000.00	-2.307692	20	PASS
11A	Ant1	5200	HV	NT	-12000.00	-2.307692	20	PASS
11A	Ant1	5240	NV	NT	-13000.00	-2.480916	20	PASS
11A	Ant1	5240	LV	NT	-13000.00	-2.480916	20	PASS
11A	Ant1	5240	HV	NT	-13000.00	-2.480916	20	PASS
11A	Ant1	5745	NV	NT	-15000.00	-2.610966	20	PASS
11A	Ant1	5745	LV	NT	-15000.00	-2.610966	20	PASS
11A	Ant1	5745	HV	NT	-15000.00	-2.610966	20	PASS
11A	Ant1	5785	NV	NT	-16000.00	-2.765774	20	PASS
11A	Ant1	5785	LV	NT	-16000.00	-2.765774	20	PASS
11A	Ant1	5785	HV	NT	-16000.00	-2.765774	20	PASS
11A	Ant1	5825	NV	NT	-16000.00	-2.746781	20	PASS
11A	Ant1	5825	LV	NT	-16000.00	-2.746781	20	PASS
11A	Ant1	5825	HV	NT	-16000.00	-2.746781	20	PASS
11N20SISO	Ant1	5180	NV	NT	-15000.00	-2.895753	20	PASS
11N20SISO	Ant1	5180	LV	NT	-15000.00	-2.895753	20	PASS
11N20SISO	Ant1	5180	HV	NT	-14000.00	-2.702703	20	PASS
11N20SISO	Ant1	5200	NV	NT	-13000.00	-2.500000	20	PASS
11N20SISO	Ant1	5200	LV	NT	-13000.00	-2.500000	20	PASS
11N20SISO	Ant1	5200	HV	NT	-13000.00	-2.500000	20	PASS
11N20SISO	Ant1	5240	NV	NT	-14000.00	-2.671756	20	PASS
11N20SISO	Ant1	5240	LV	NT	-14000.00	-2.671756	20	PASS

O								
11N20SIS O	Ant1	5240	HV	NT	-14000.00	-2.671756	20	PASS
11N20SIS O	Ant1	5745	NV	NT	-15000.00	-2.610966	20	PASS
11N20SIS O	Ant1	5745	LV	NT	-15000.00	-2.610966	20	PASS
11N20SIS O	Ant1	5745	HV	NT	-15000.00	-2.610966	20	PASS
11N20SIS O	Ant1	5785	NV	NT	-15000.00	-2.592913	20	PASS
11N20SIS O	Ant1	5785	LV	NT	-15000.00	-2.592913	20	PASS
11N20SIS O	Ant1	5785	HV	NT	-15000.00	-2.592913	20	PASS
11N20SIS O	Ant1	5825	NV	NT	-16000.00	-2.746781	20	PASS
11N20SIS O	Ant1	5825	LV	NT	-15000.00	-2.575107	20	PASS
11N20SIS O	Ant1	5825	HV	NT	-15000.00	-2.575107	20	PASS
11N40SIS O	Ant1	5190	NV	NT	-14000.00	-2.697495	20	PASS
11N40SIS O	Ant1	5190	LV	NT	-13000.00	-2.504817	20	PASS
11N40SIS O	Ant1	5190	HV	NT	-13000.00	-2.504817	20	PASS
11N40SIS O	Ant1	5230	NV	NT	-13000.00	-2.485660	20	PASS
11N40SIS O	Ant1	5230	LV	NT	-13000.00	-2.485660	20	PASS
11N40SIS O	Ant1	5230	HV	NT	-13000.00	-2.485660	20	PASS
11N40SIS O	Ant1	5755	NV	NT	-14000.00	-2.432667	20	PASS
11N40SIS O	Ant1	5755	LV	NT	-14000.00	-2.432667	20	PASS
11N40SIS O	Ant1	5755	HV	NT	-14000.00	-2.432667	20	PASS
11N40SIS O	Ant1	5795	NV	NT	-13000.00	-2.243313	20	PASS
11N40SIS O	Ant1	5795	LV	NT	-14000.00	-2.415876	20	PASS
11N40SIS O	Ant1	5795	HV	NT	-14000.00	-2.415876	20	PASS
11AC20SIS O	Ant1	5180	NV	NT	-7000.00	-1.351351	20	PASS
11AC20SIS O	Ant1	5180	LV	NT	-7000.00	-1.351351	20	PASS
11AC20SIS O	Ant1	5180	HV	NT	-7000.00	-1.351351	20	PASS
11AC20SIS O	Ant1	5200	NV	NT	-8000.00	-1.538462	20	PASS
11AC20SIS O	Ant1	5200	LV	NT	-8000.00	-1.538462	20	PASS
11AC20SIS O	Ant1	5200	HV	NT	-9000.00	-1.730769	20	PASS

11AC20SIS O	Ant1	5240	NV	NT	-9000.00	-1.717557	20	PASS
11AC20SIS O	Ant1	5240	LV	NT	-10000.00	-1.908397	20	PASS
11AC20SIS O	Ant1	5240	HV	NT	-10000.00	-1.908397	20	PASS
11AC20SIS O	Ant1	5745	NV	NT	-10000.00	-1.740644	20	PASS
11AC20SIS O	Ant1	5745	LV	NT	-11000.00	-1.914708	20	PASS
11AC20SIS O	Ant1	5745	HV	NT	-12000.00	-2.088773	20	PASS
11AC20SIS O	Ant1	5785	NV	NT	-13000.00	-2.247191	20	PASS
11AC20SIS O	Ant1	5785	LV	NT	-13000.00	-2.247191	20	PASS
11AC20SIS O	Ant1	5785	HV	NT	-13000.00	-2.247191	20	PASS
11AC20SIS O	Ant1	5825	NV	NT	-13000.00	-2.231760	20	PASS
11AC20SIS O	Ant1	5825	LV	NT	-14000.00	-2.403433	20	PASS
11AC20SIS O	Ant1	5825	HV	NT	-14000.00	-2.403433	20	PASS
11AC40SIS O	Ant1	5190	NV	NT	-12000.00	-2.312139	20	PASS
11AC40SIS O	Ant1	5190	LV	NT	-12000.00	-2.312139	20	PASS
11AC40SIS O	Ant1	5190	HV	NT	-13000.00	-2.504817	20	PASS
11AC40SIS O	Ant1	5230	NV	NT	-10000.00	-1.912046	20	PASS
11AC40SIS O	Ant1	5230	LV	NT	-11000.00	-2.103250	20	PASS
11AC40SIS O	Ant1	5230	HV	NT	-11000.00	-2.103250	20	PASS
11AC40SIS O	Ant1	5755	NV	NT	-12000.00	-2.085143	20	PASS
11AC40SIS O	Ant1	5755	LV	NT	-13000.00	-2.258905	20	PASS
11AC40SIS O	Ant1	5755	HV	NT	-13000.00	-2.258905	20	PASS
11AC40SIS O	Ant1	5795	NV	NT	-13000.00	-2.243313	20	PASS
11AC40SIS O	Ant1	5795	LV	NT	-13000.00	-2.243313	20	PASS
11AC40SIS O	Ant1	5795	HV	NT	-13000.00	-2.243313	20	PASS
11AC80SIS O	Ant1	5210	NV	NT	-12000.00	-2.303263	20	PASS
11AC80SIS O	Ant1	5210	LV	NT	-12000.00	-2.303263	20	PASS
11AC80SIS O	Ant1	5210	HV	NT	-13000.00	-2.495202	20	PASS
11AC80SIS O	Ant1	5775	NV	NT	-13000.00	-2.251082	20	PASS
11AC80SIS	Ant1	5775	LV	NT	-13000.00	-2.251082	20	PASS

O								
11AC80SIS O	Ant1	5775	HV	NT	-13000.00	-2.251082	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	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
		5755	NV	20	40000.00	7.648184	20	PASS
			NV	30	40000.00	7.648184	20	PASS
			NV	40	40000.00	7.648184	20	PASS
			NV	50	40000.00	7.648184	20	PASS
			NV	-30	40000.00	6.950478	20	PASS
		5755	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
			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	-30	0.00	0.000000	20	PASS
11AC80SIS O	Ant1	5210	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS

11 Test Setup

Refer to “ Test Setup Photos”.

12 EUT PHOTOS

Refer to “ External Photos” and “ Internal Photos”.

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