



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Robot Vacuum Cleaner

Test Model: L100

Environmental Conditions

Temperature:	21.1° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan



A.1 6dB Bandwidth

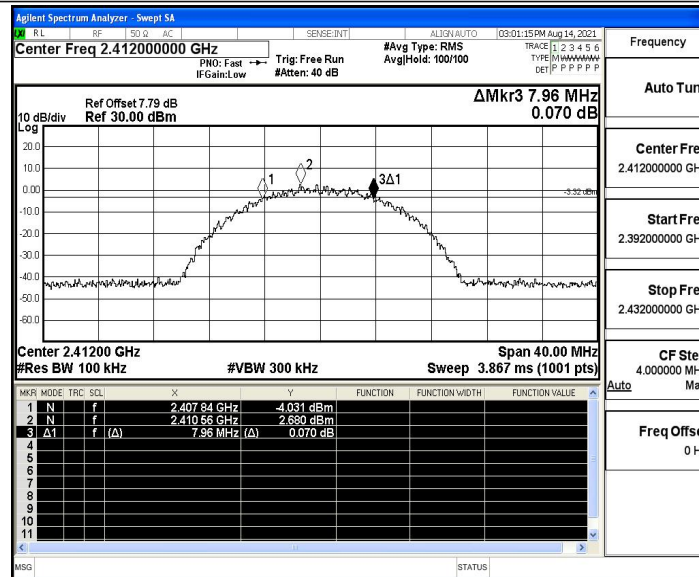
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.960	2407.840	2415.800	0.5	PASS
		2437	7.920	2432.840	2440.760	0.5	PASS
		2462	7.920	2457.880	2465.800	0.5	PASS
11G	Ant1	2412	16.600	2403.680	2420.280	0.5	PASS
		2437	16.600	2428.680	2445.280	0.5	PASS
		2462	16.600	2453.680	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.840	2403.080	2420.920	0.5	PASS
		2437	17.840	2428.080	2445.920	0.5	PASS
		2462	17.840	2453.080	2470.920	0.5	PASS
11N40SISO	Ant1	2422	36.560	2403.760	2440.320	0.5	PASS
		2437	36.560	2418.760	2455.320	0.5	PASS
		2452	36.560	2433.760	2470.320	0.5	PASS

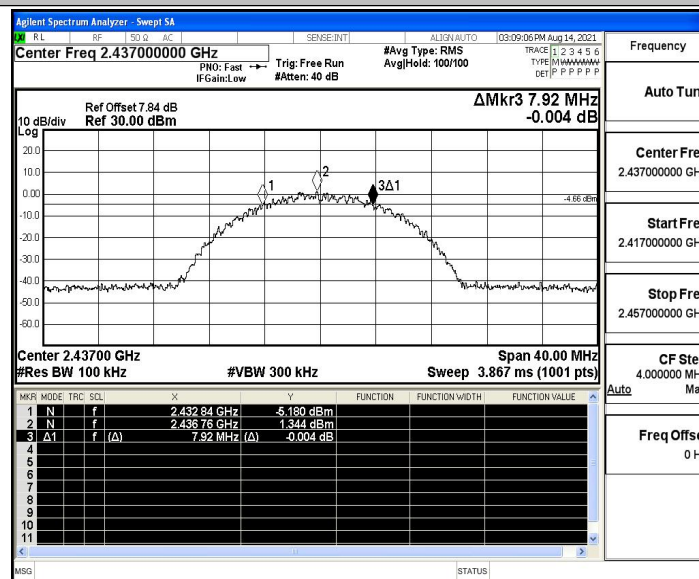


Test Graphs

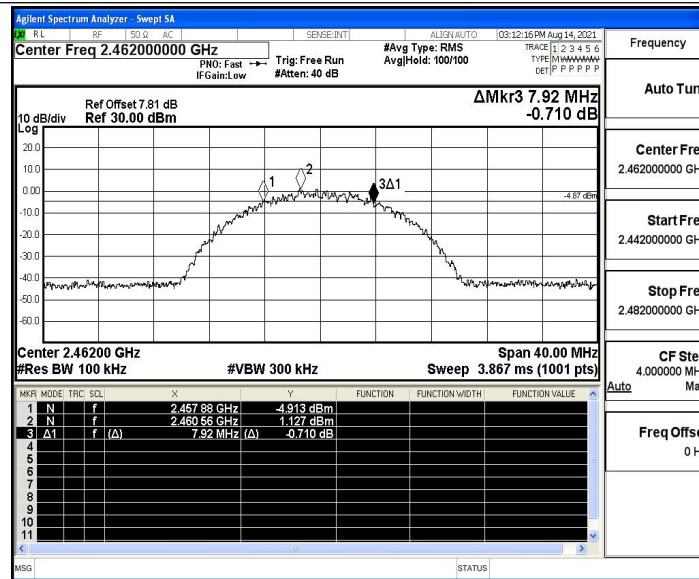
11B_Ant1_2412



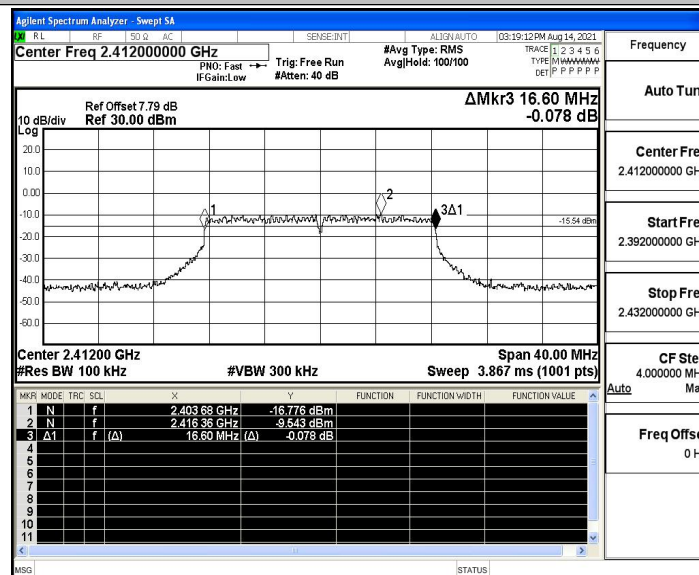
11B_Ant1_2437



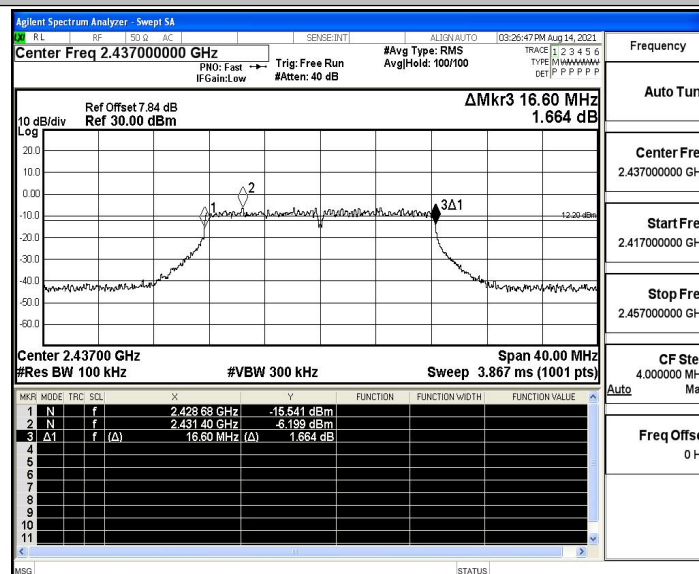
11B_Ant1_2462



11G_Ant1_2412

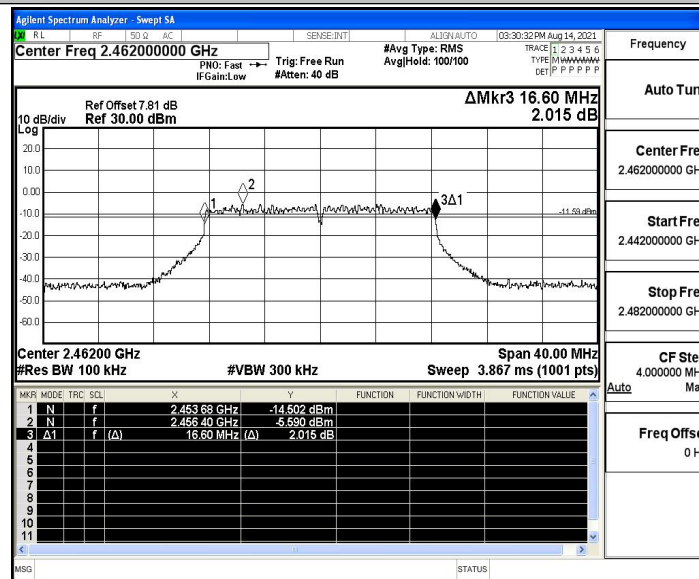


11G_Ant1_2437

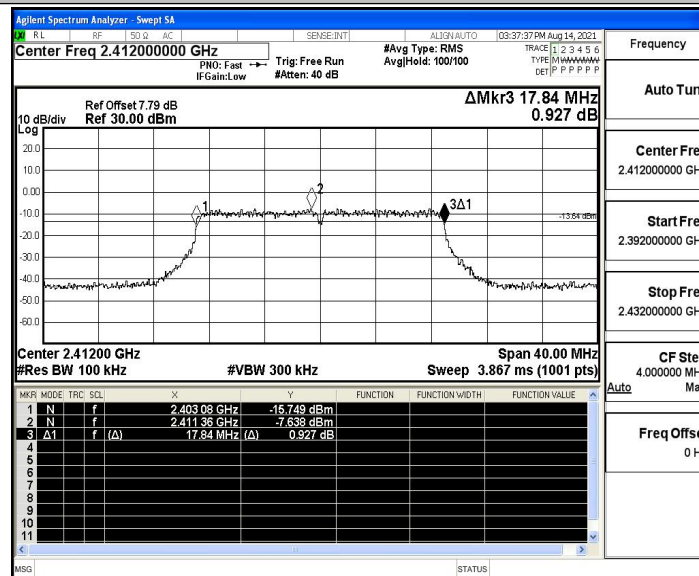




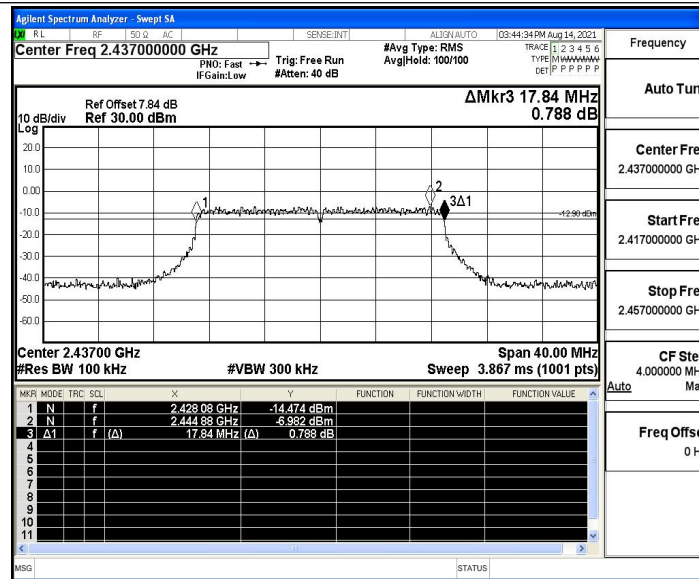
11G_Ant1_2462



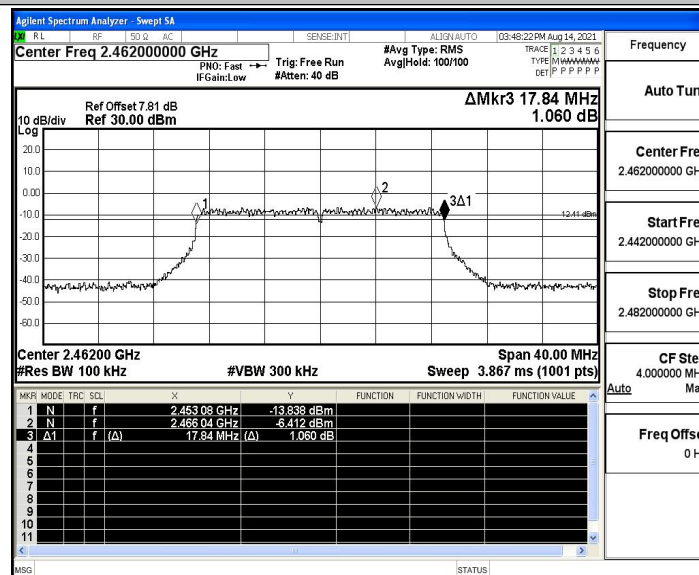
11N20SISO_Ant1_2412



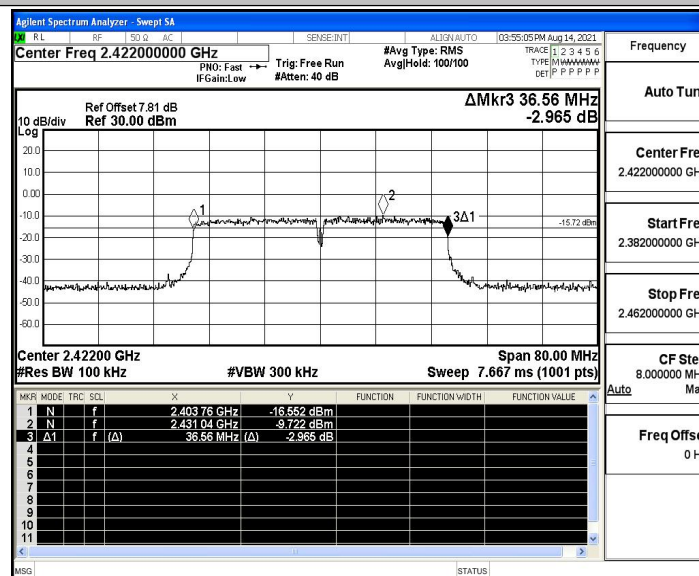
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

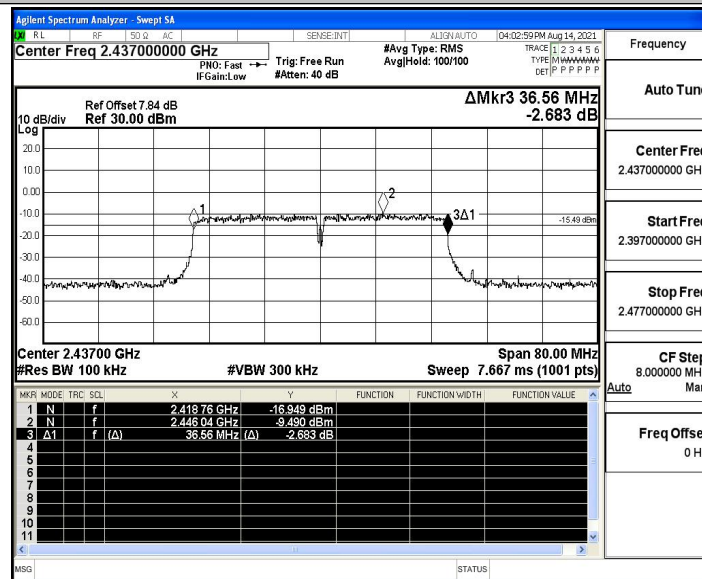


11N40SISO_Ant1_2422

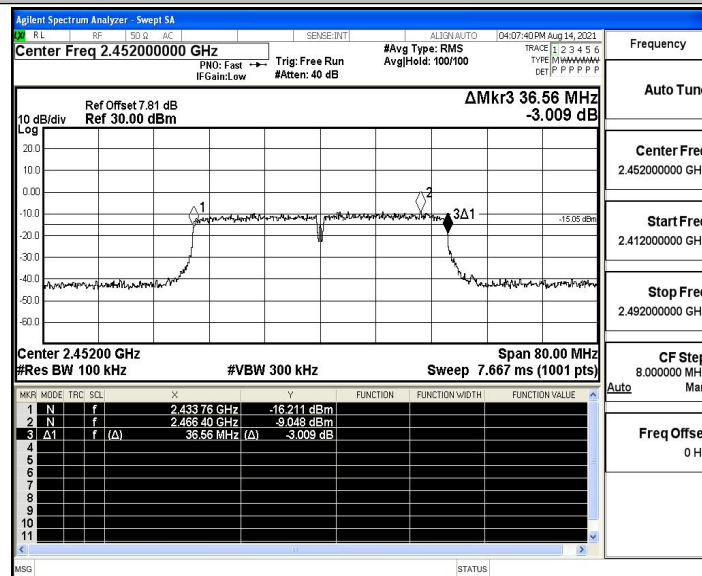




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





A.2 Occupied Channel Bandwidth

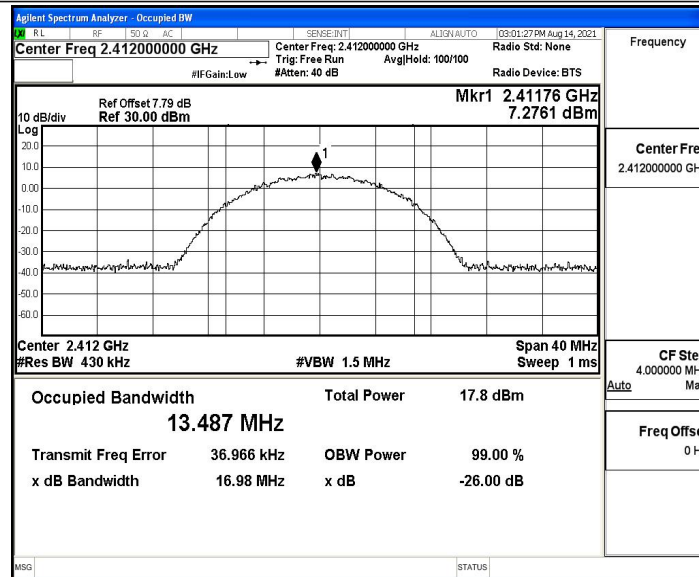
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.487	2405.293	2418.780	---	PASS
		2437	13.512	2430.283	2443.795	---	PASS
		2462	13.460	2455.297	2468.757	---	PASS
11G	Ant1	2412	16.941	2403.491	2420.432	---	PASS
		2437	16.908	2428.506	2445.414	---	PASS
		2462	16.895	2453.519	2470.414	---	PASS
11N20SISO	Ant1	2412	17.885	2403.082	2420.967	---	PASS
		2437	17.875	2428.068	2445.943	---	PASS
		2462	17.906	2453.028	2470.934	---	PASS
11N40SISO	Ant1	2422	36.373	2403.872	2440.245	---	PASS
		2437	36.414	2418.861	2455.275	---	PASS
		2452	36.328	2433.917	2470.245	---	PASS

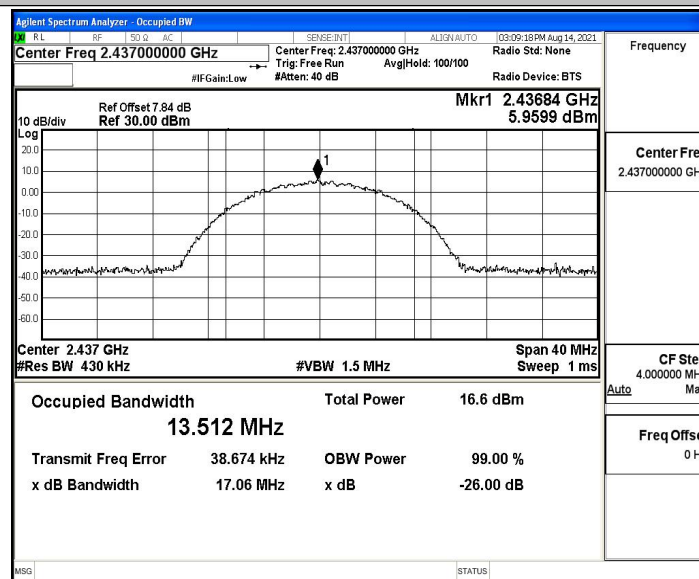


Test Graphs

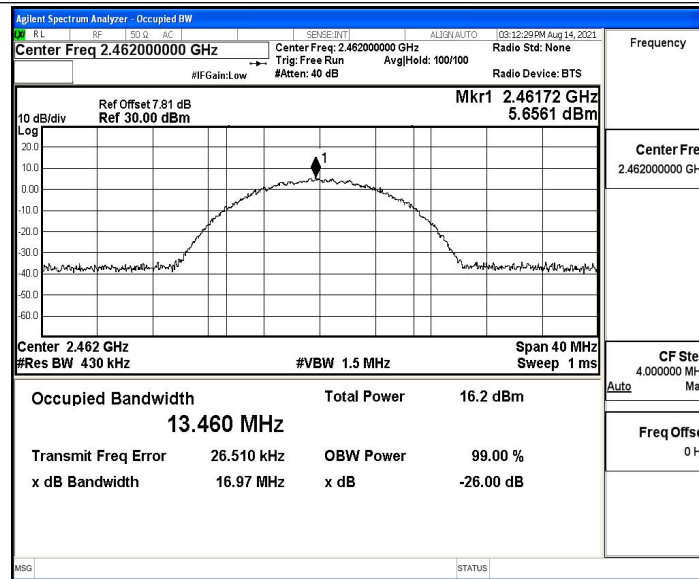
11B_Ant1_2412



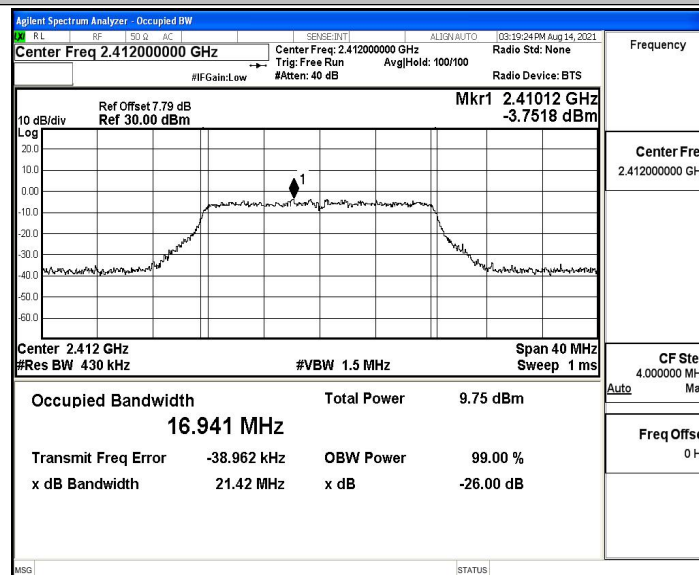
11B_Ant1_2437



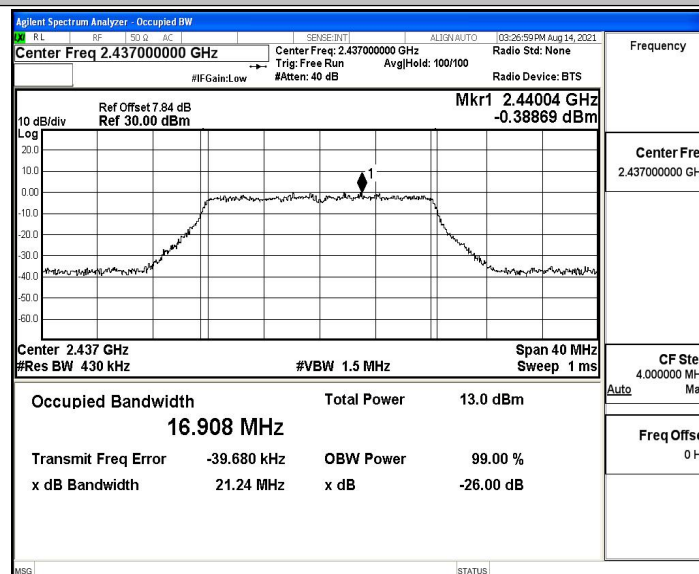
11B_Ant1_2462



11G_Ant1_2412

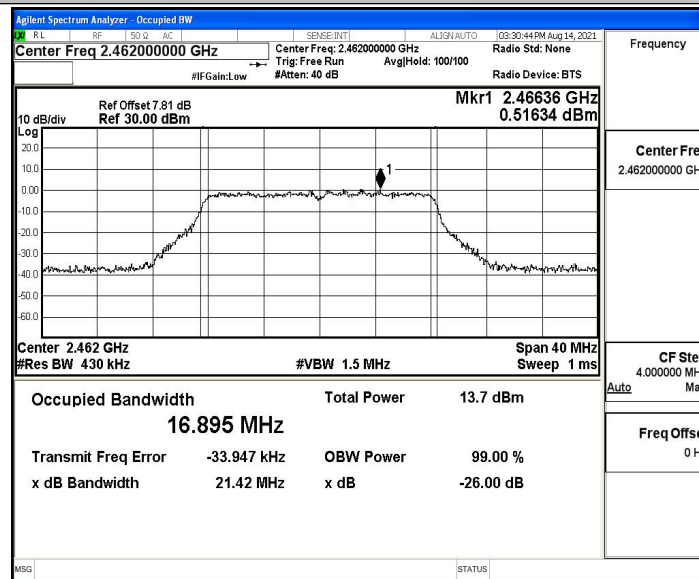


11G_Ant1_2437

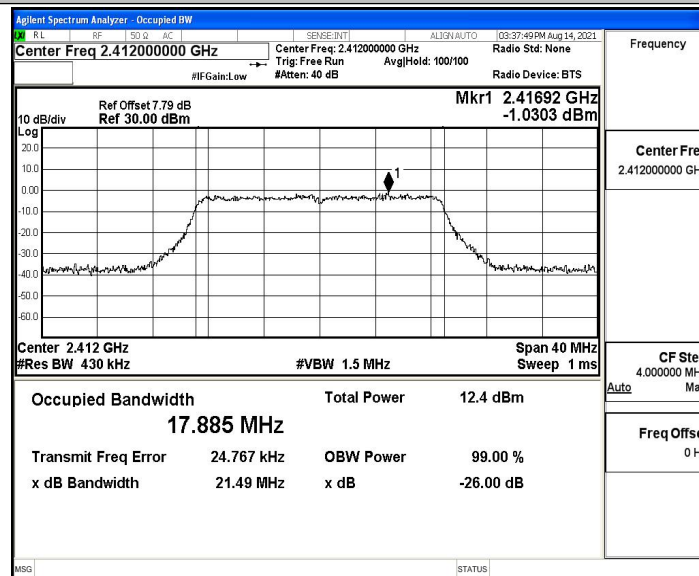




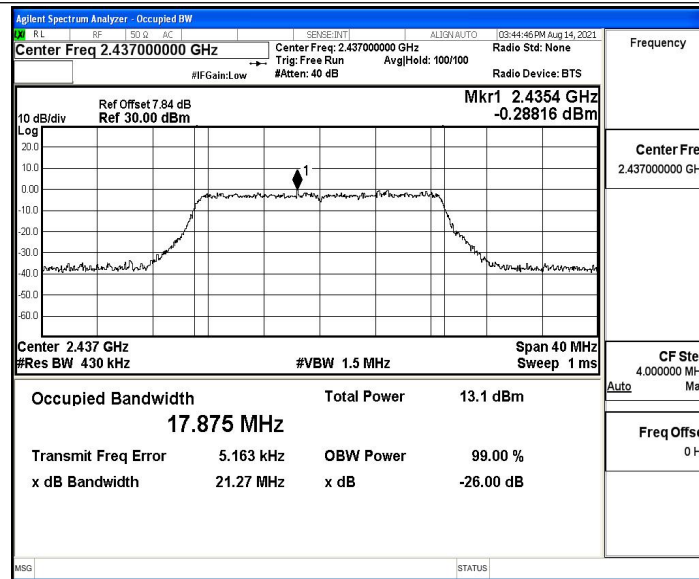
11G_Ant1_2462



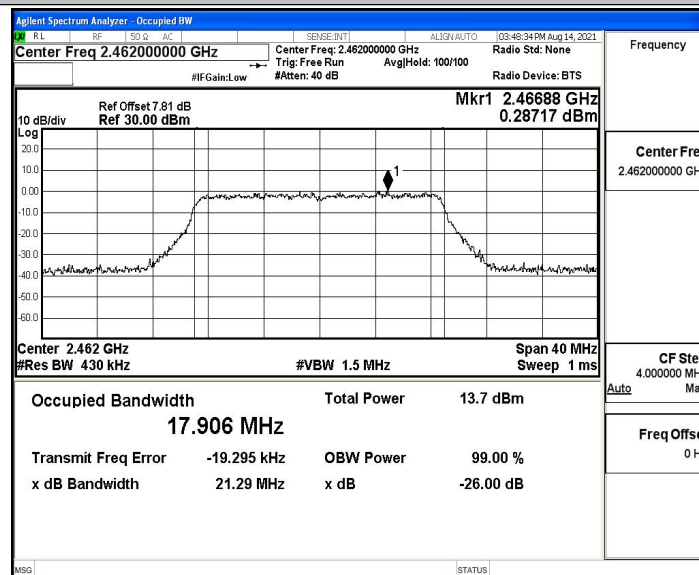
11N20SISO_Ant1_2412



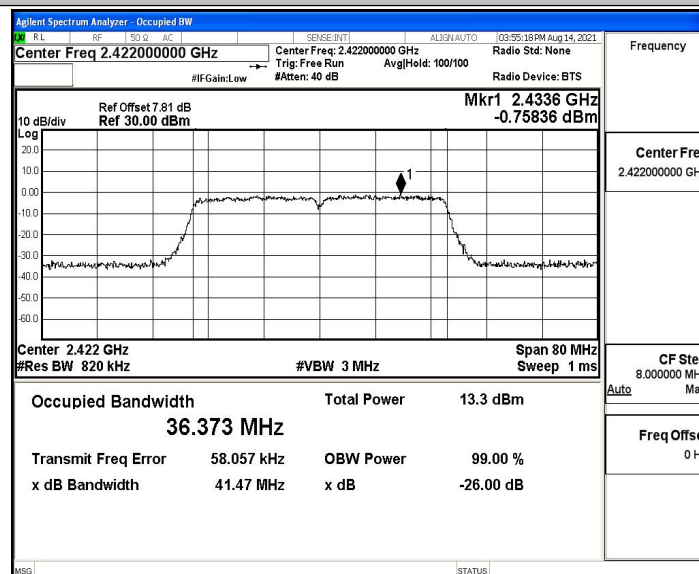
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

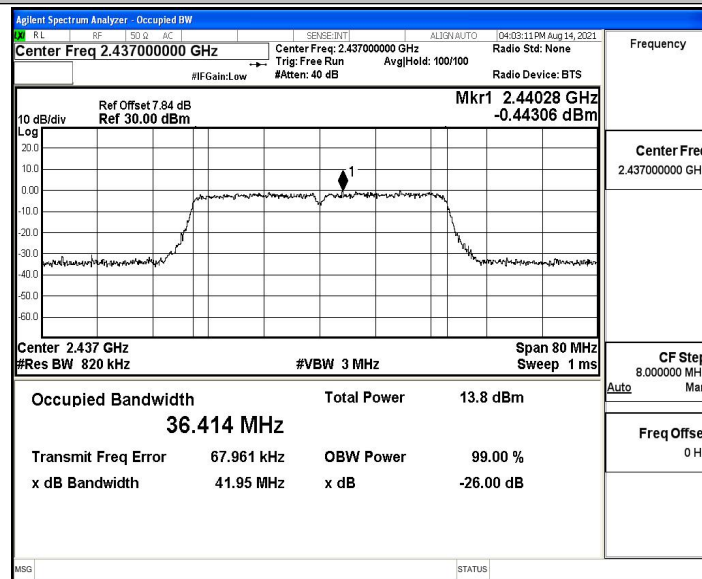


11N40SISO_Ant1_2422

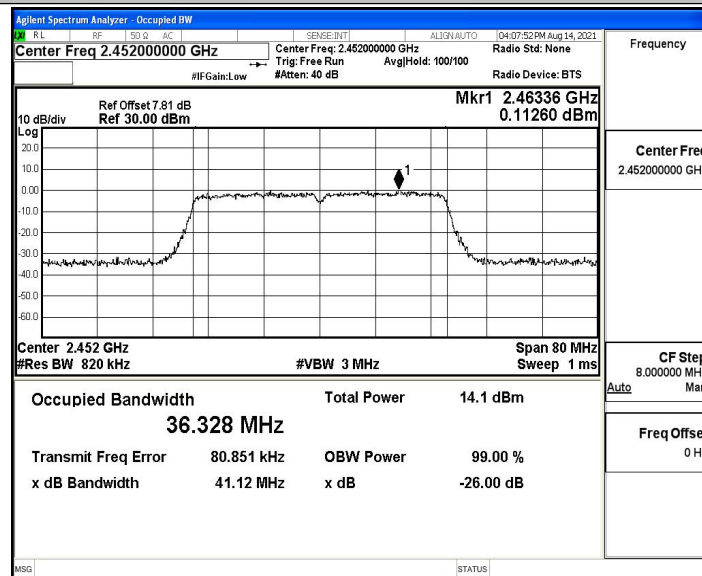




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





A.3 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.96	≤30	PASS
		2437	15.52	≤30	PASS
		2462	15.83	≤30	PASS
11G	Ant1	2412	13.59	≤30	PASS
		2437	14.11	≤30	PASS
		2462	14.71	≤30	PASS
11N20SISO	Ant1	2412	13.09	≤30	PASS
		2437	13.68	≤30	PASS
		2462	14.38	≤30	PASS
11N40SISO	Ant1	2422	13.48	≤30	PASS
		2437	13.88	≤30	PASS
		2452	14.21	≤30	PASS



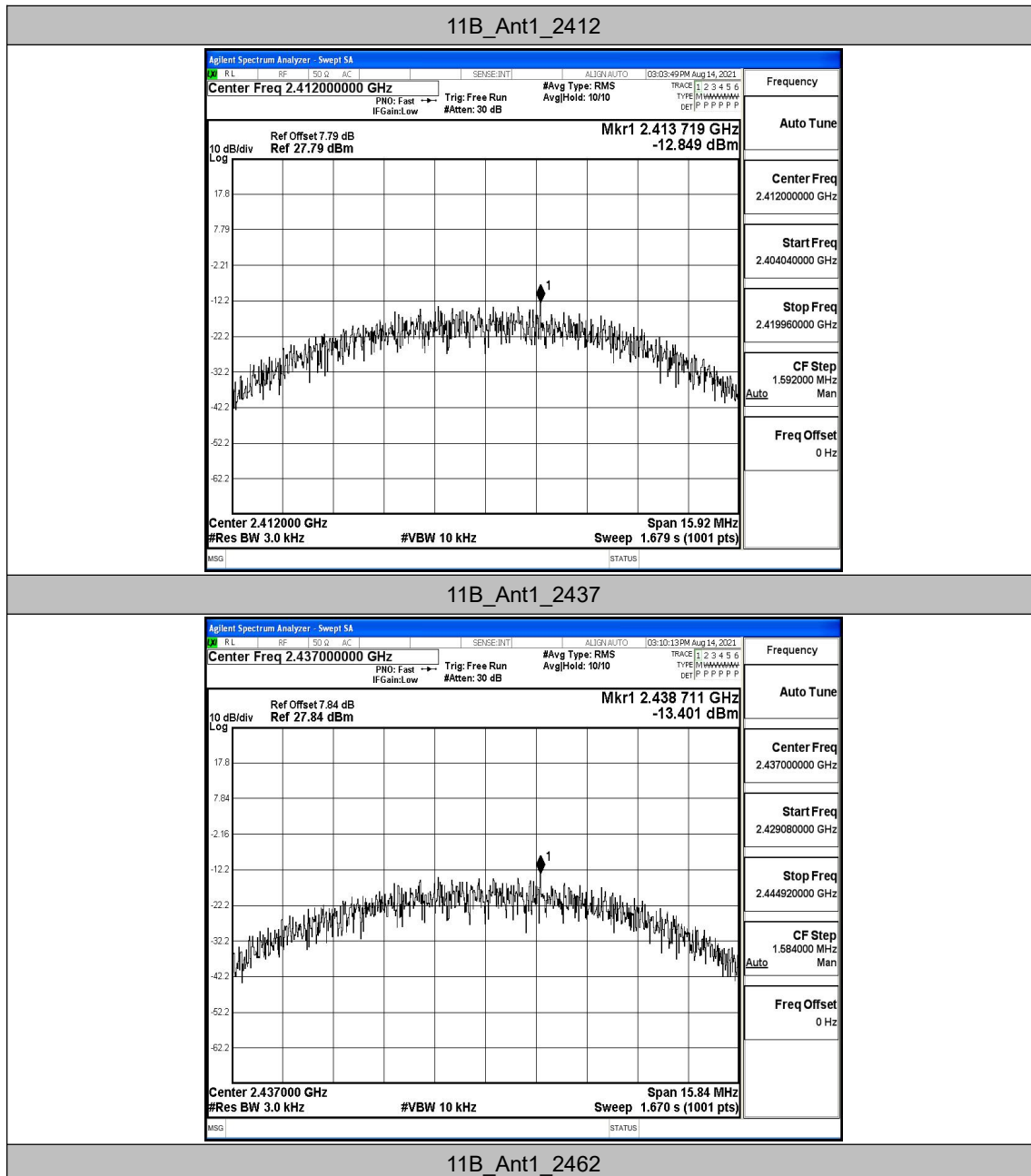
A.4 Maximum power spectral density

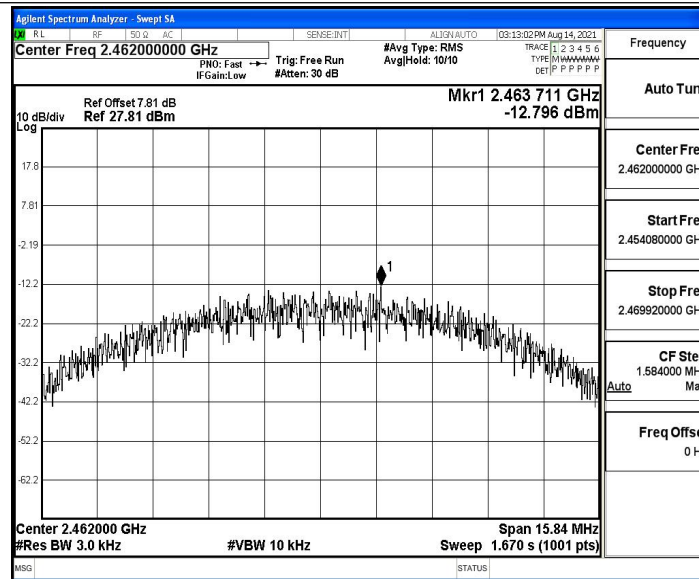
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.85	≤8	PASS
		2437	-13.4	≤8	PASS
		2462	-12.8	≤8	PASS
11G	Ant1	2412	-18.8	≤8	PASS
		2437	-18.2	≤8	PASS
		2462	-17.51	≤8	PASS
11N20SISO	Ant1	2412	-18.73	≤8	PASS
		2437	-18.16	≤8	PASS
		2462	-17.41	≤8	PASS
11N40SISO	Ant1	2422	-18.49	≤8	PASS
		2437	-18.25	≤8	PASS
		2452	-17.82	≤8	PASS

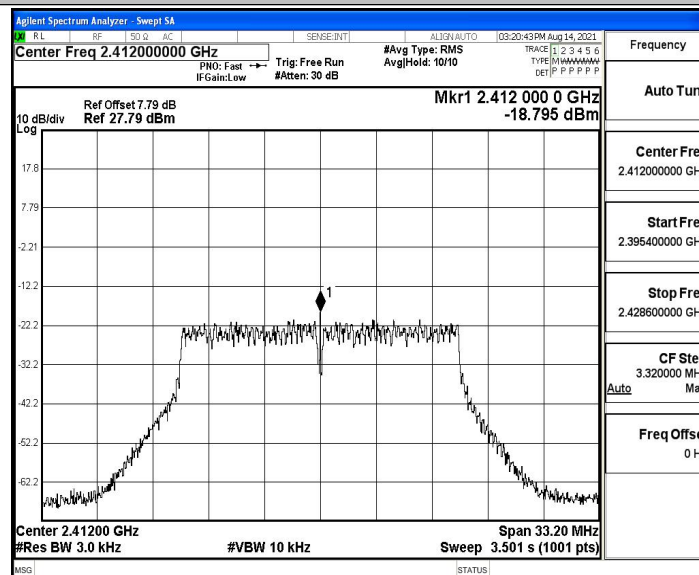


Test Graphs

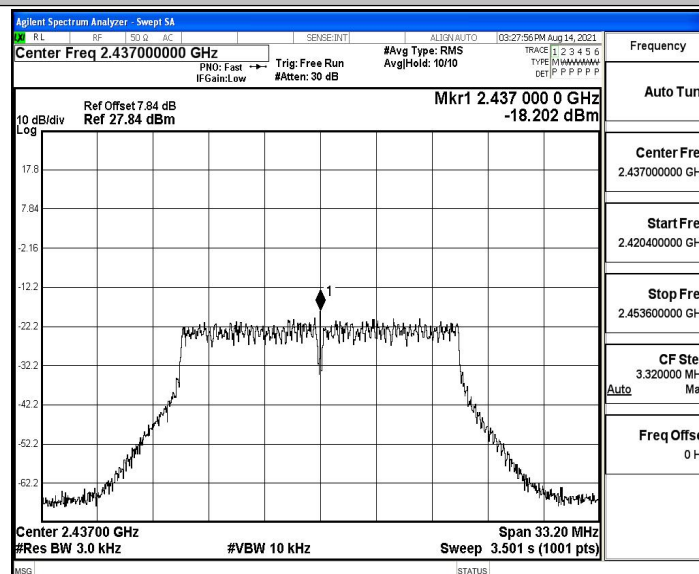




11G_Ant1_2412

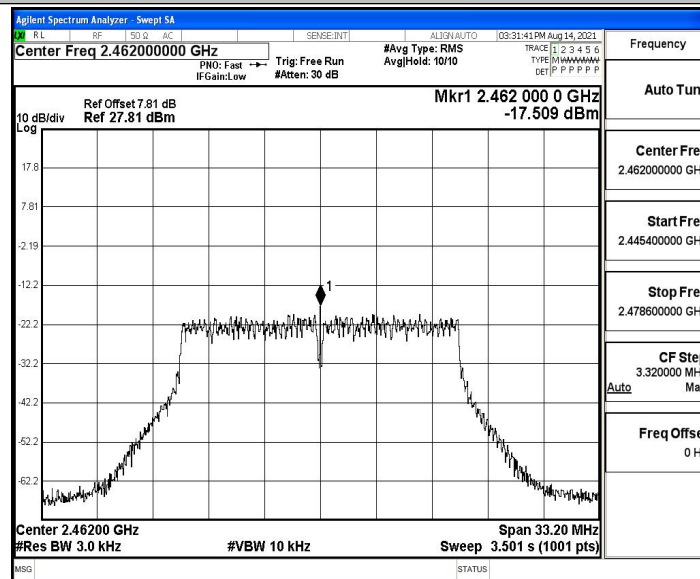


11G_Ant1_2437

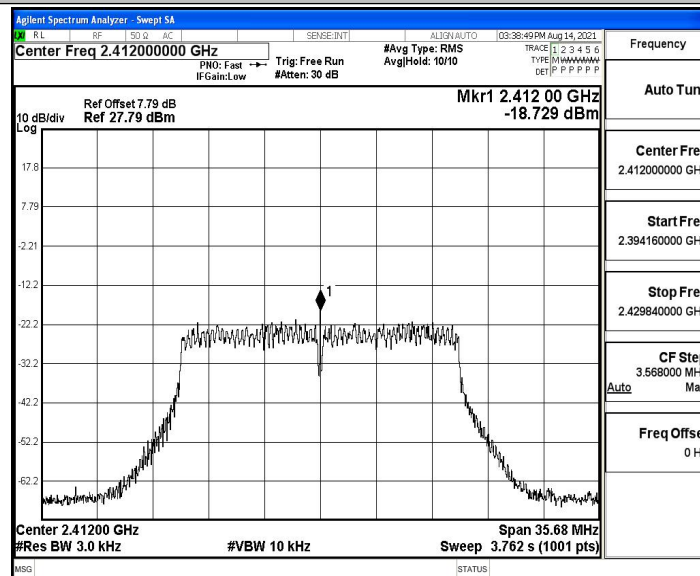




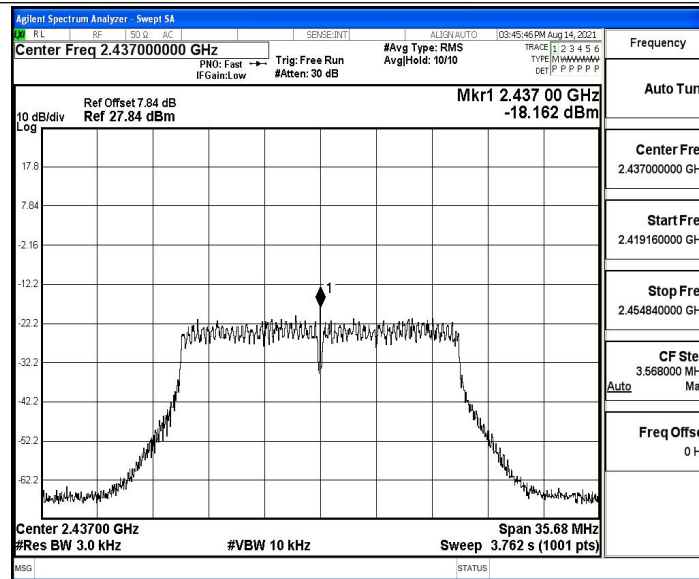
11G_Ant1_2462



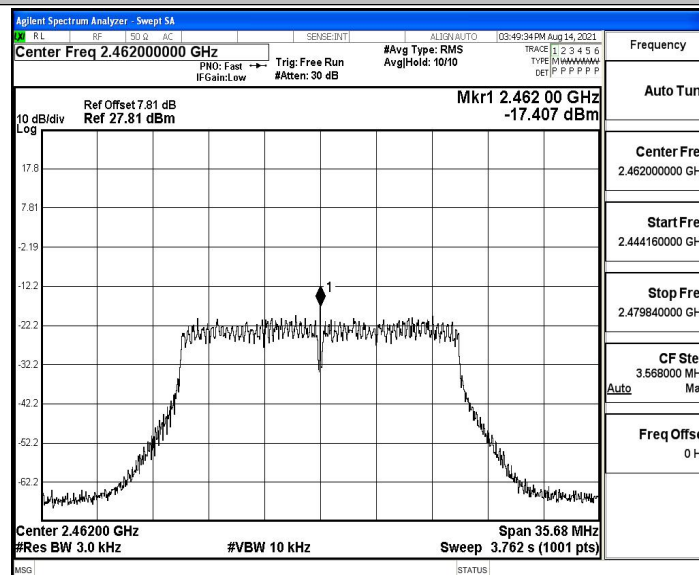
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

