



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Full HD Outdoor Wi-Fi Camera

Trade Mark: Ezlo

Test Model: VC1103

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: DTS Bandwidth

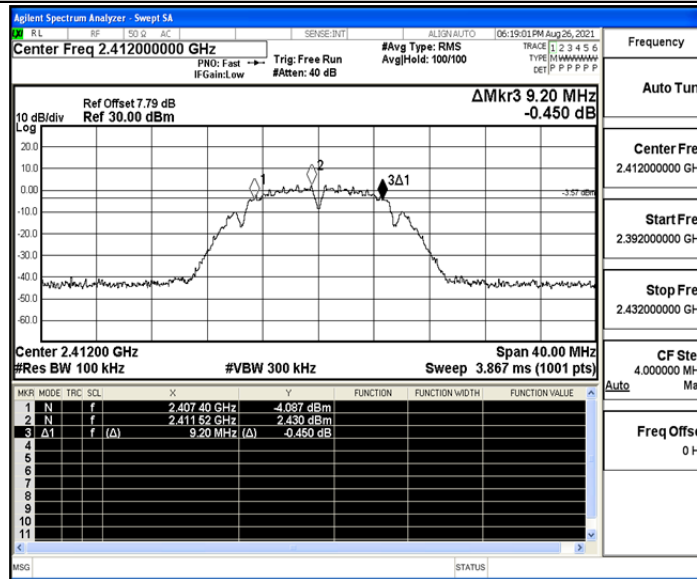
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.200	2407.400	2416.600	0.5	PASS
		2437	9.200	2432.400	2441.600	0.5	PASS
		2462	9.560	2457.000	2466.560	0.5	PASS
11G	Ant1	2412	16.640	2403.680	2420.320	0.5	PASS
		2437	16.600	2428.760	2445.360	0.5	PASS
		2462	16.520	2453.680	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.920	2403.040	2420.960	0.5	PASS
		2437	17.800	2428.160	2445.960	0.5	PASS
		2462	17.800	2453.040	2470.840	0.5	PASS
11N40SISO	Ant1	2422	36.560	2403.760	2440.320	0.5	PASS
		2437	36.400	2418.920	2455.320	0.5	PASS
		2452	36.240	2433.760	2470.000	0.5	PASS

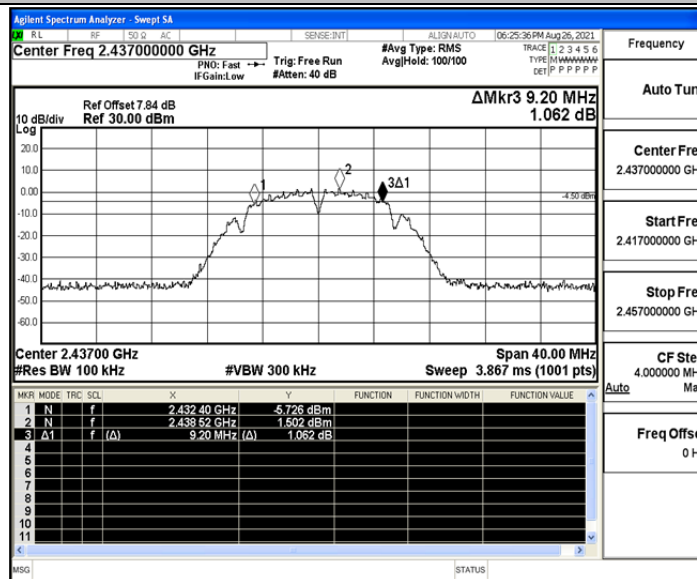


Test Graphs

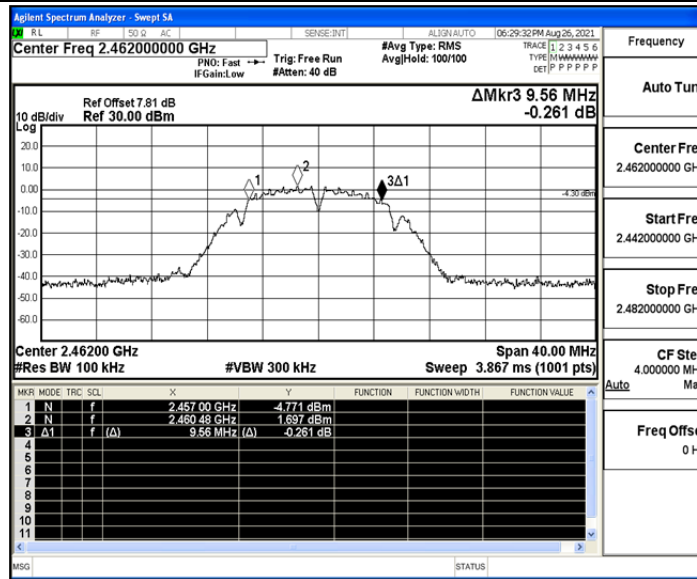
11B_Ant1_2412



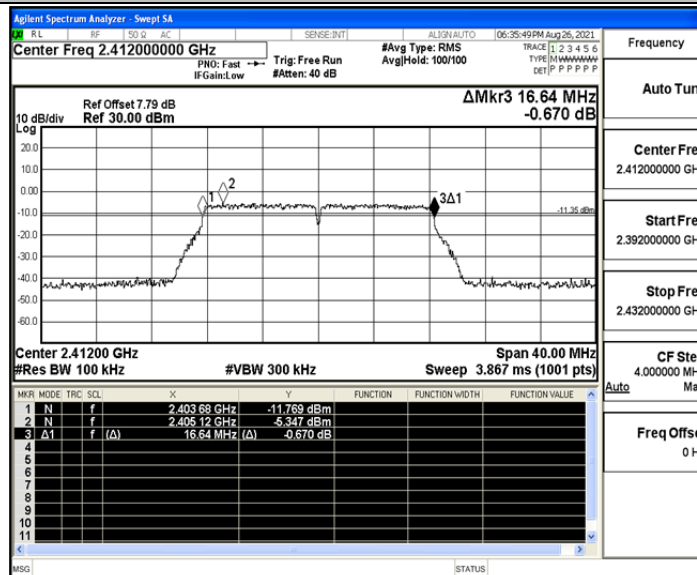
11B_Ant1_2437



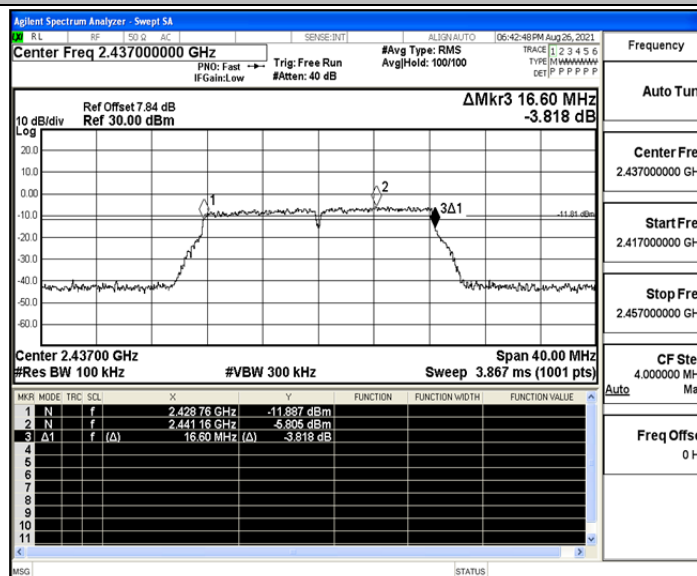
11B_Ant1_2462



11G_Ant1_2412

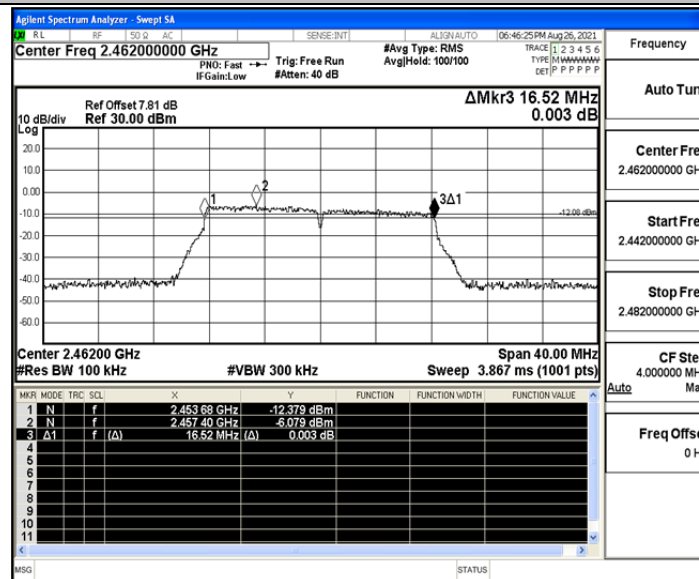


11G_Ant1_2437

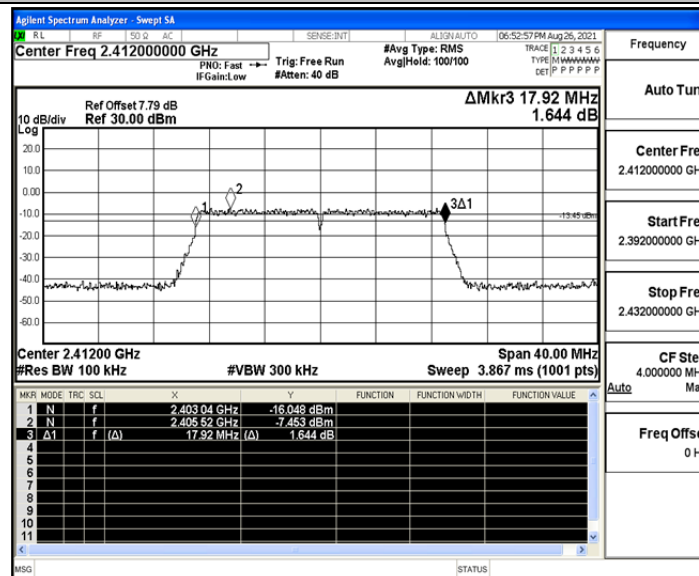




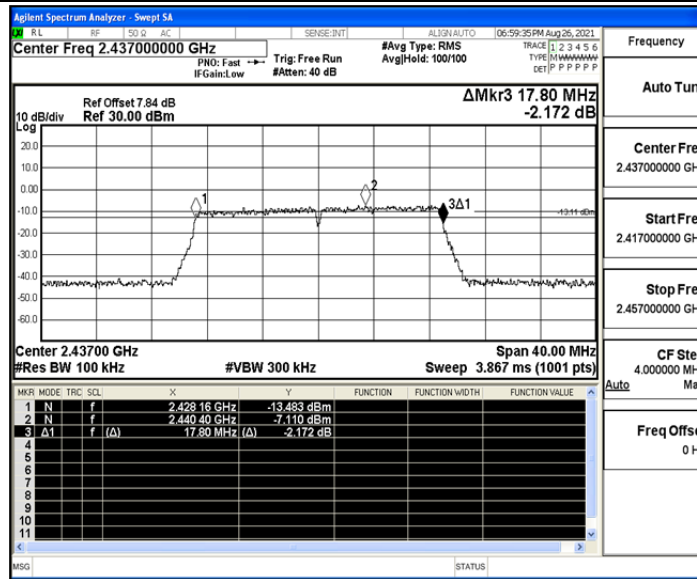
11G_Ant1_2462



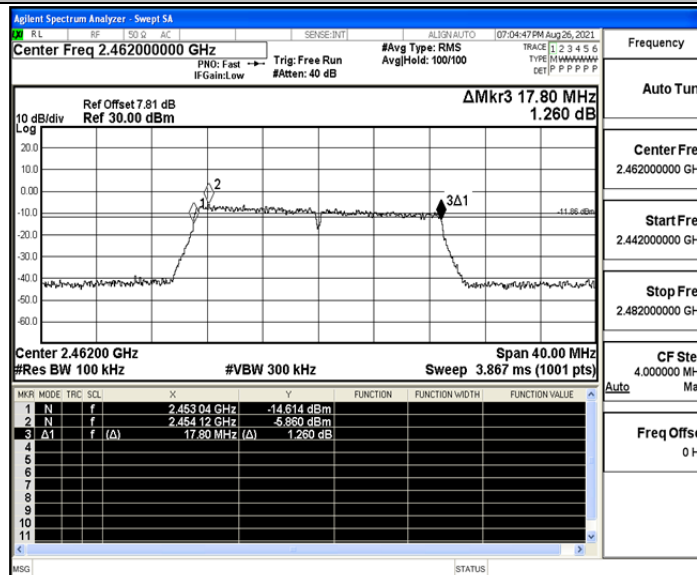
11N20SISO_Ant1_2412



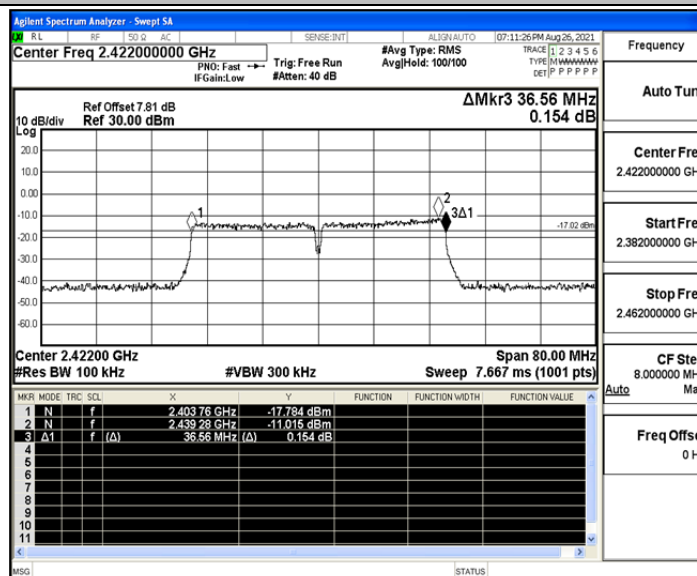
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

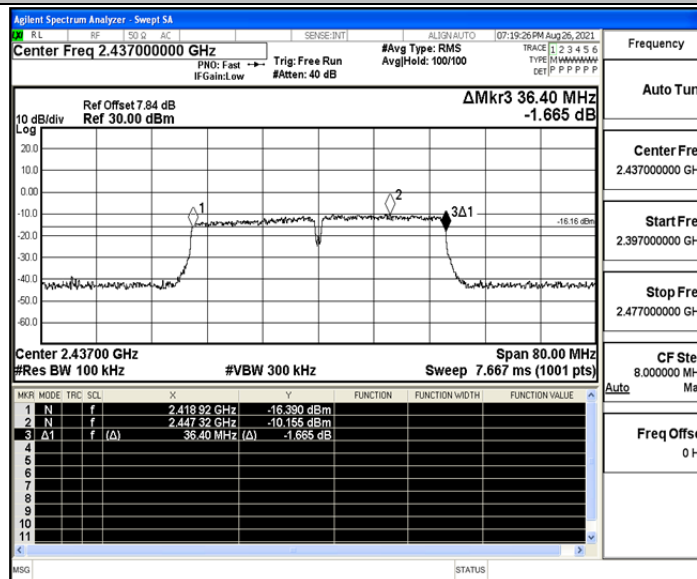


11N40SISO_Ant1_2422

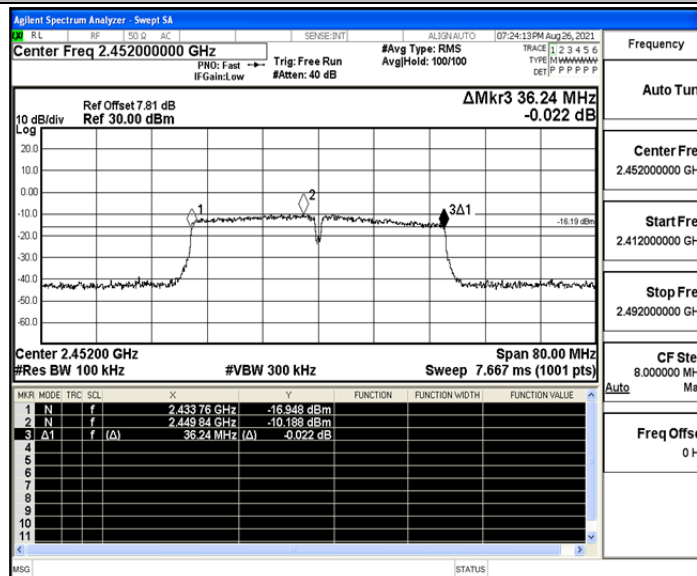




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





A.2 Occupied Channel Bandwidth

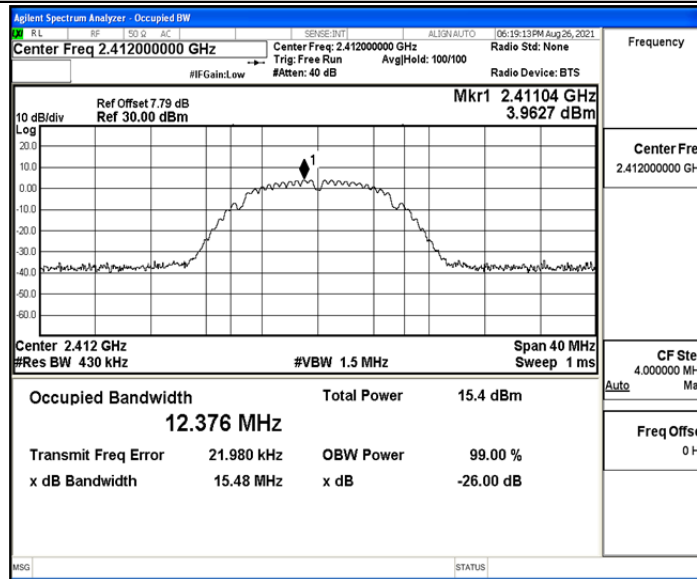
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.376	2405.834	2418.210	---	PASS
		2437	12.362	2430.952	2443.314	---	PASS
		2462	12.504	2455.563	2468.067	---	PASS
11G	Ant1	2412	17.299	2403.316	2420.615	---	PASS
		2437	17.167	2428.460	2445.627	---	PASS
		2462	17.094	2453.253	2470.347	---	PASS
11N20SISO	Ant1	2412	17.970	2403.001	2420.971	---	PASS
		2437	17.900	2428.139	2446.039	---	PASS
		2462	17.951	2452.914	2470.865	---	PASS
11N40SISO	Ant1	2422	36.570	2403.864	2440.434	---	PASS
		2437	36.323	2419.023	2455.346	---	PASS
		2452	36.143	2433.854	2469.997	---	PASS

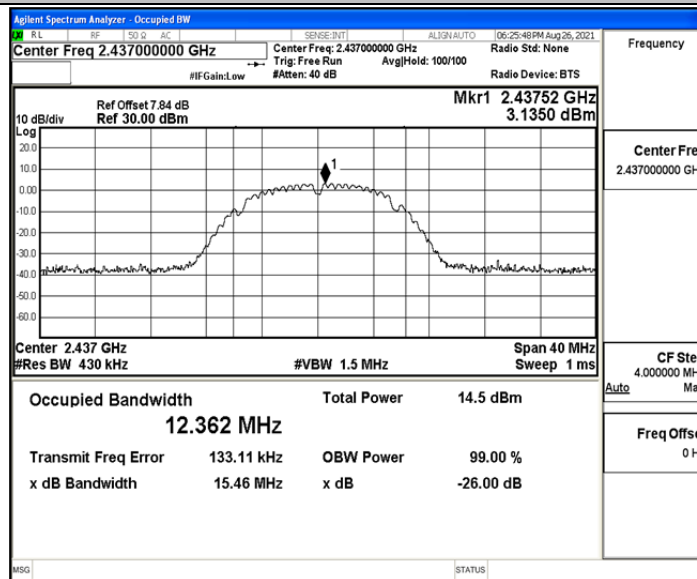


Test Graphs

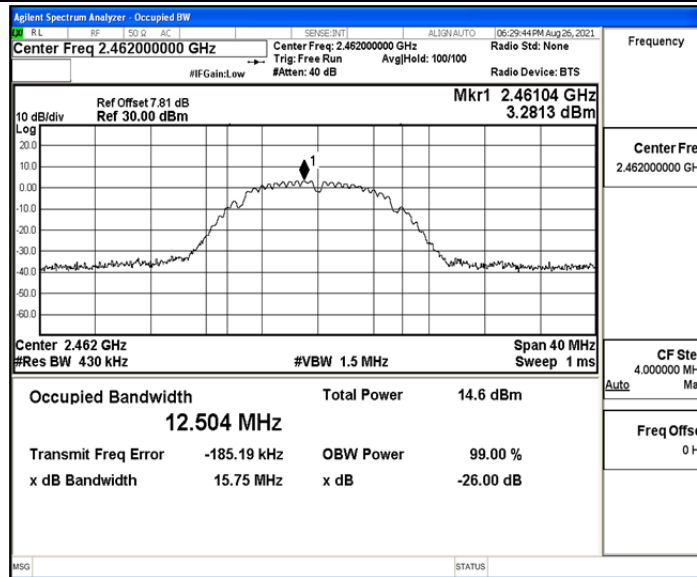
11B_Ant1_2412



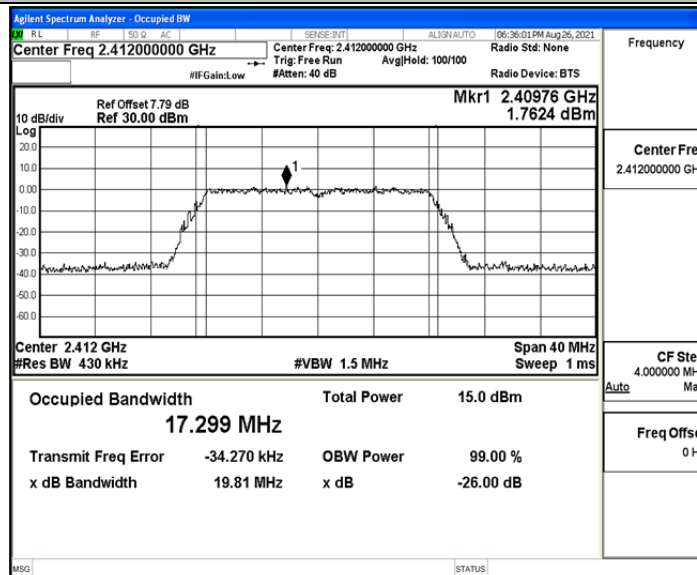
11B_Ant1_2437



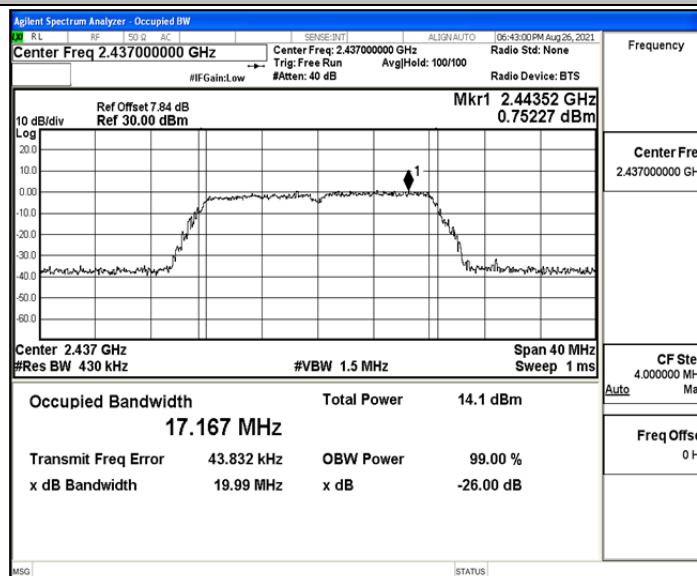
11B_Ant1_2462



11G_Ant1_2412

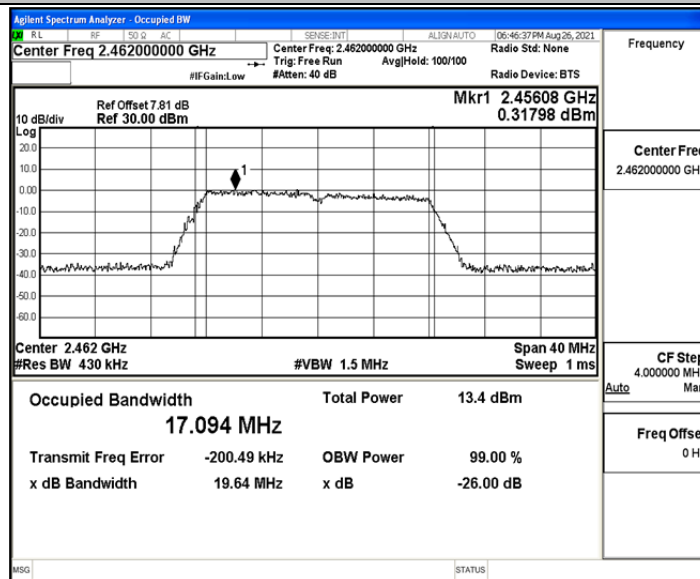


11G_Ant1_2437

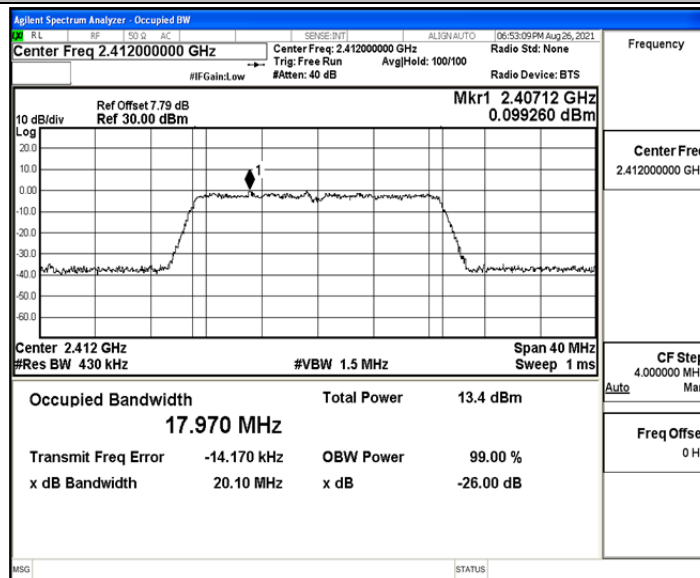




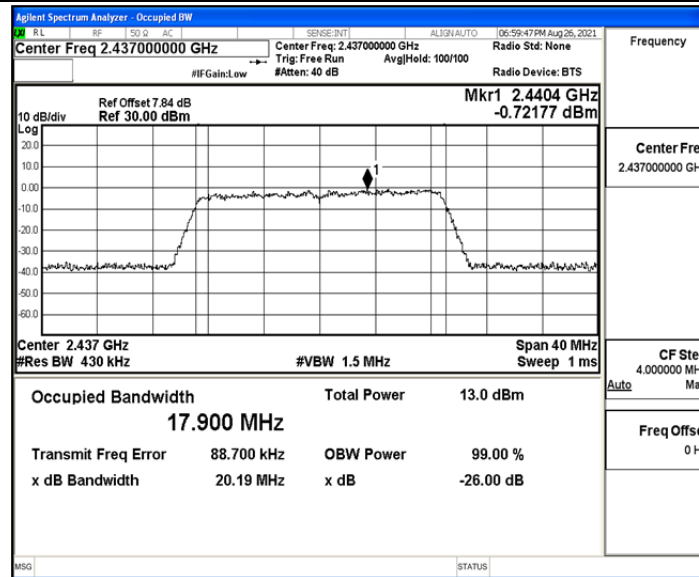
11G_Ant1_2462



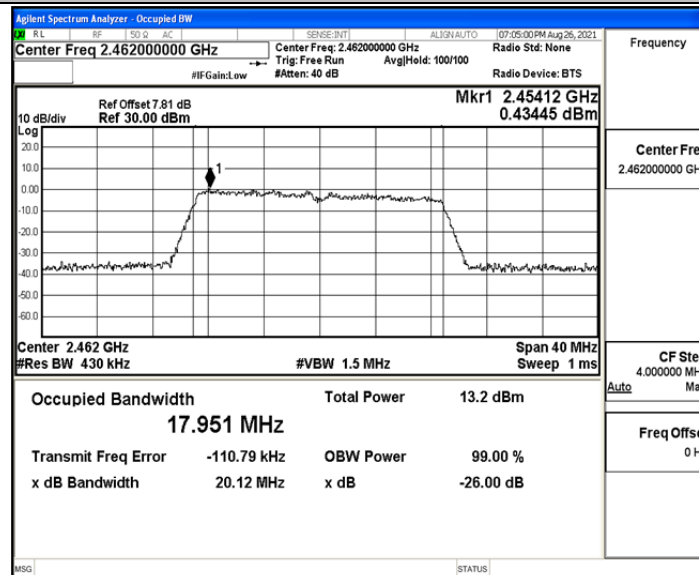
11N20SISO_Ant1_2412



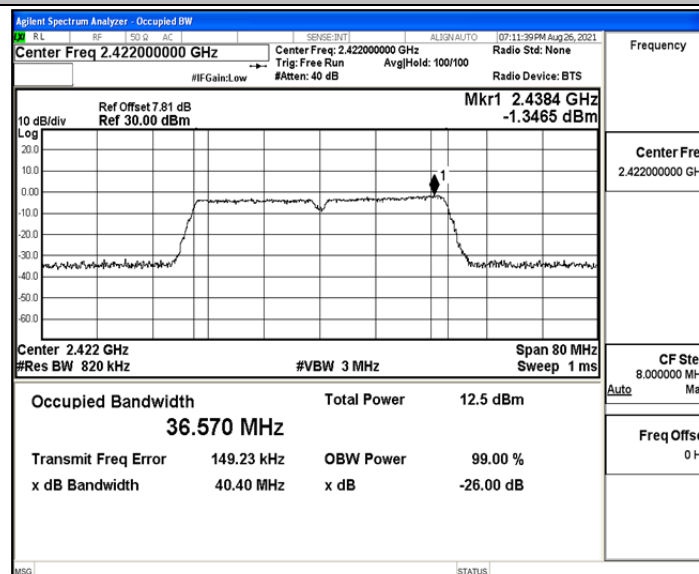
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

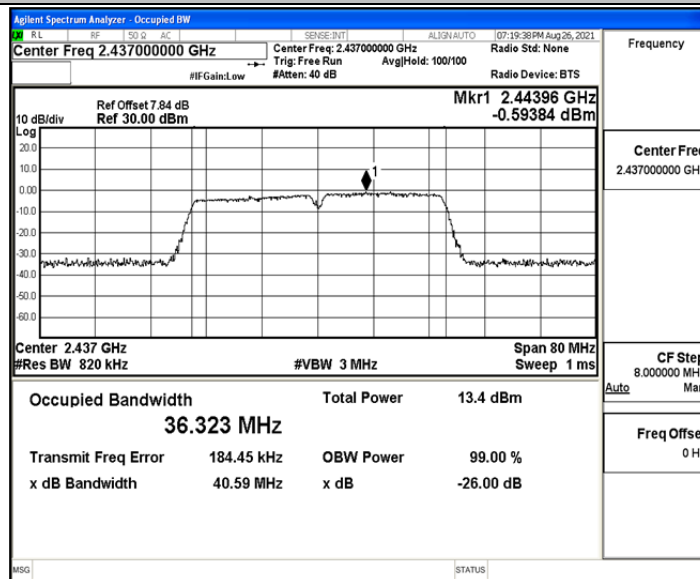


11N40SISO_Ant1_2422

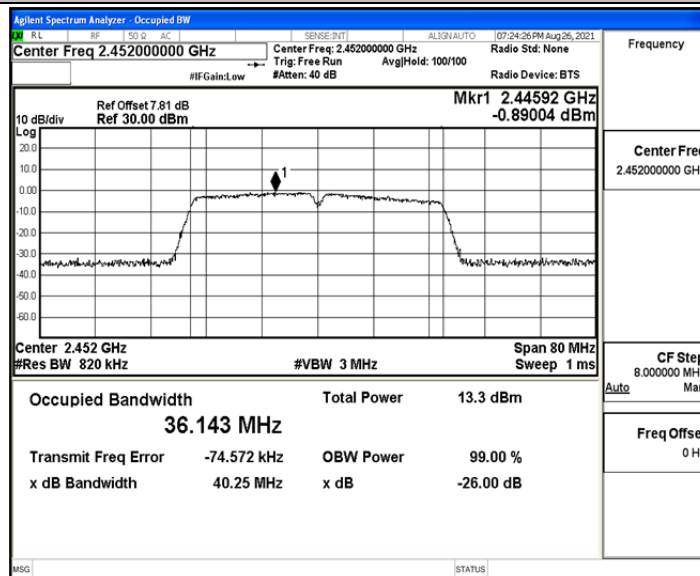




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





A.3 Maximum peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.39	≤ 30	PASS
		2437	14.51	≤ 30	PASS
		2462	14.66	≤ 30	PASS
11G	Ant1	2412	16.03	≤ 30	PASS
		2437	15.25	≤ 30	PASS
		2462	14.45	≤ 30	PASS
11N20SISO	Ant1	2412	14.59	≤ 30	PASS
		2437	14.22	≤ 30	PASS
		2462	14.58	≤ 30	PASS
11N40SISO	Ant1	2422	13.03	≤ 30	PASS
		2437	13.65	≤ 30	PASS
		2452	13.69	≤ 30	PASS



A.4 Maximum power spectral density

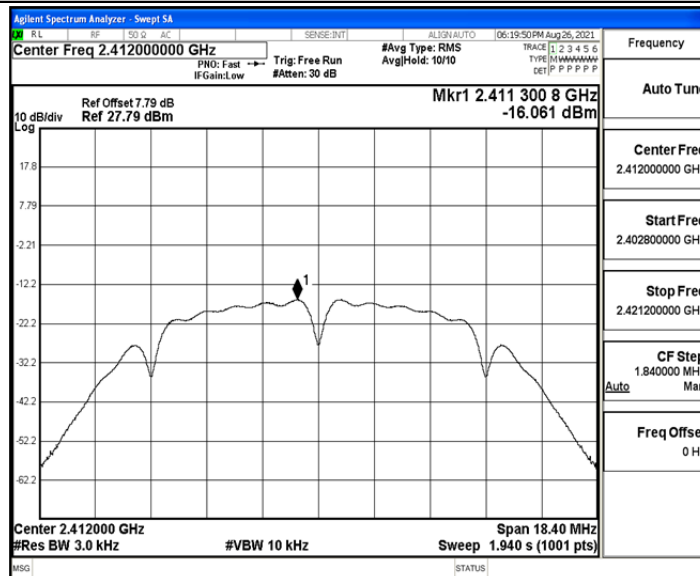
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.06	≤8	PASS
		2437	-16.92	≤8	PASS
		2462	-16.72	≤8	PASS
11G	Ant1	2412	-19.22	≤8	PASS
		2437	-19.92	≤8	PASS
		2462	-20.07	≤8	PASS
11N20SISO	Ant1	2412	-20.82	≤8	PASS
		2437	-20.12	≤8	PASS
		2462	-18.97	≤8	PASS
11N40SISO	Ant1	2422	-22.43	≤8	PASS
		2437	-21.96	≤8	PASS
		2452	-22.35	≤8	PASS

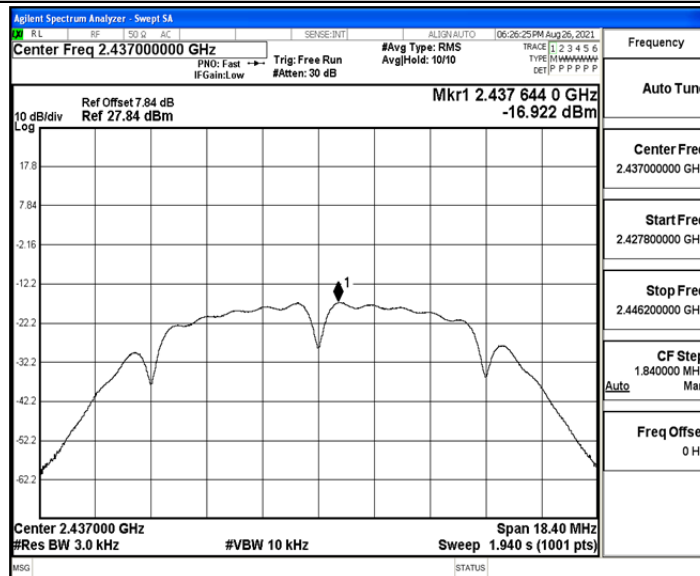


Test Graphs

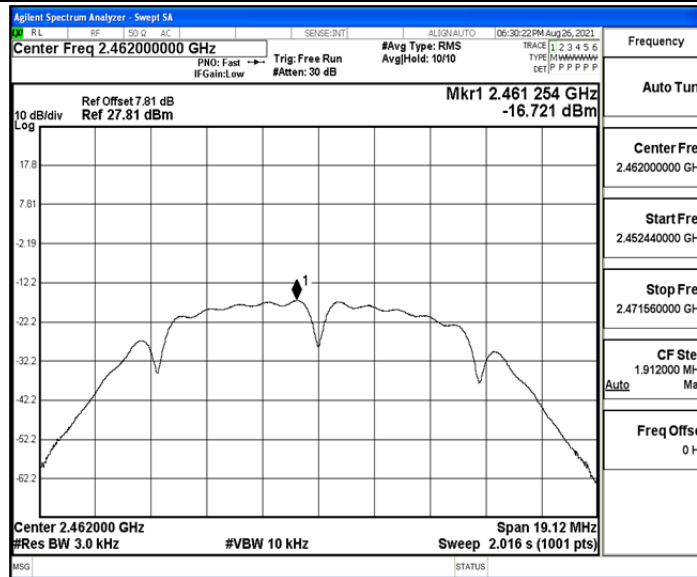
11B_Ant1_2412



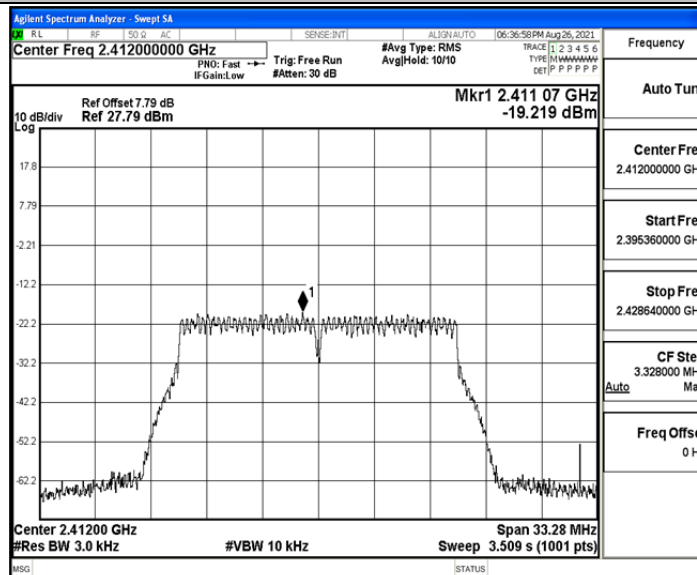
11B_Ant1_2437



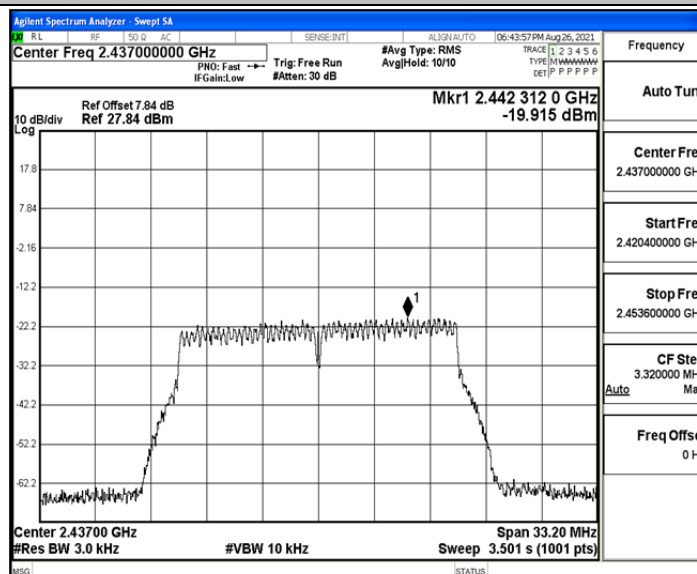
11B_Ant1_2462



11G_Ant1_2412

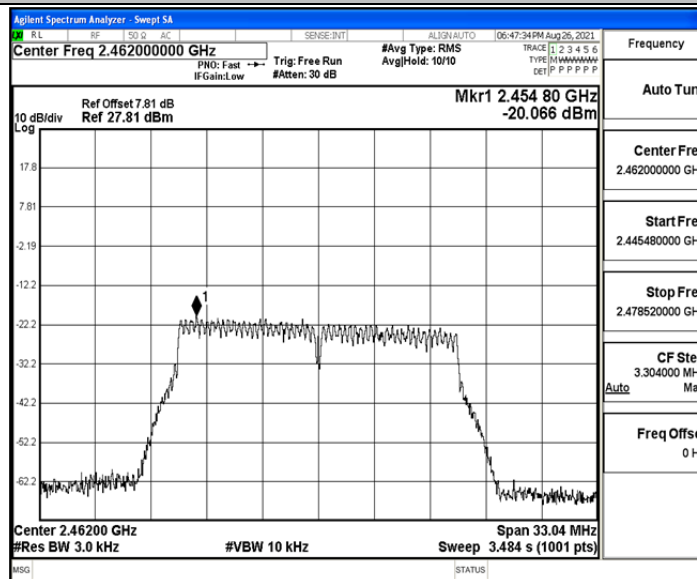


11G_Ant1_2437

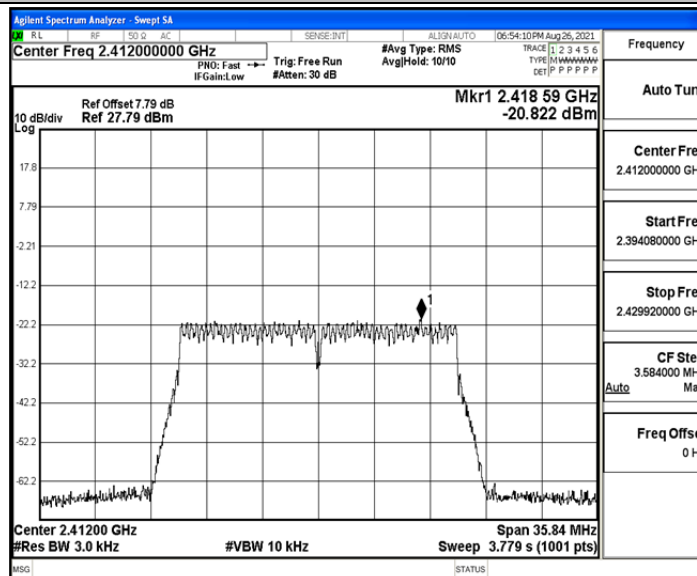




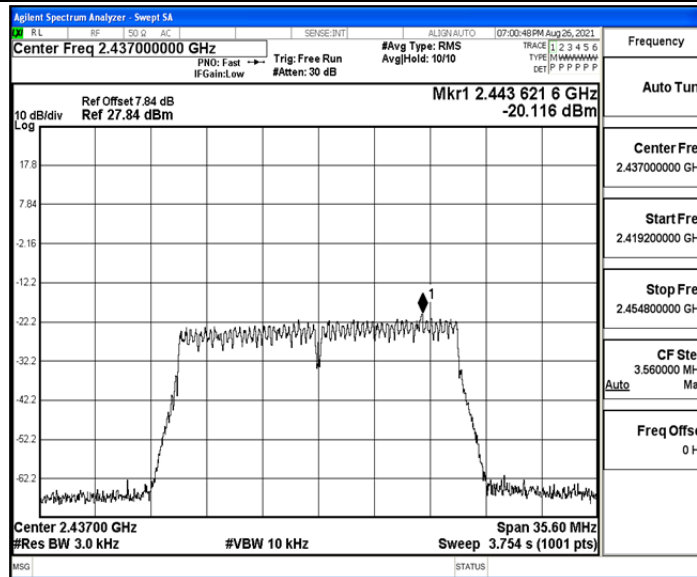
11G_Ant1_2462



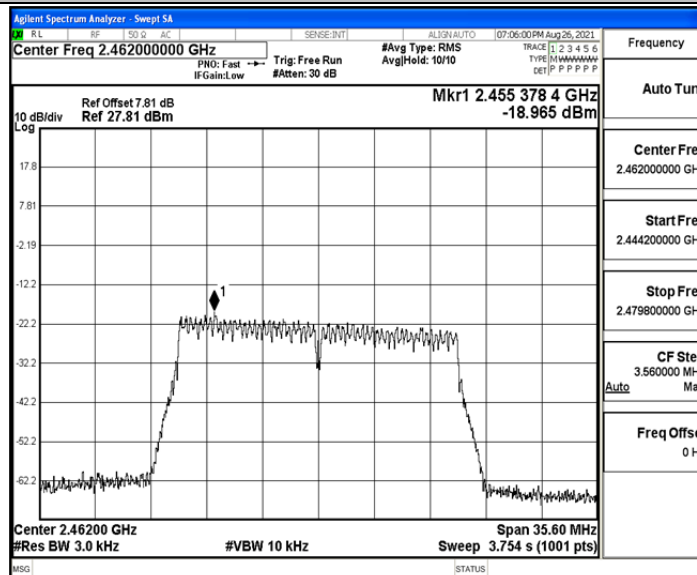
11N20SISO_Ant1_2412



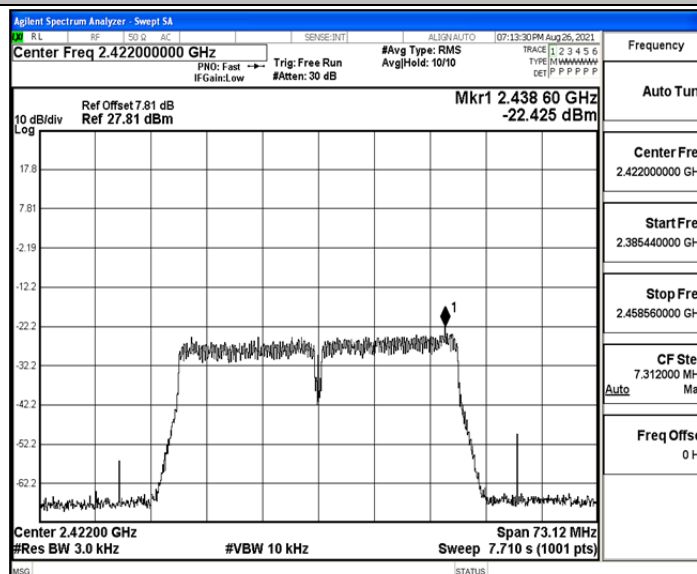
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

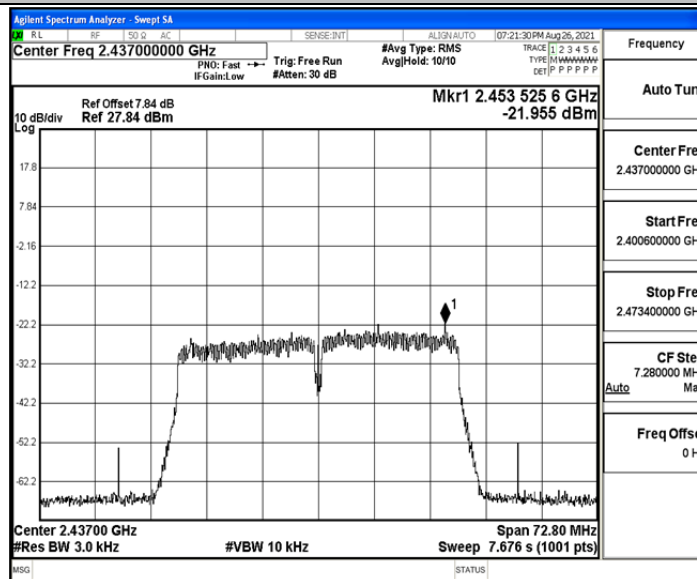


11N40SISO_Ant1_2422

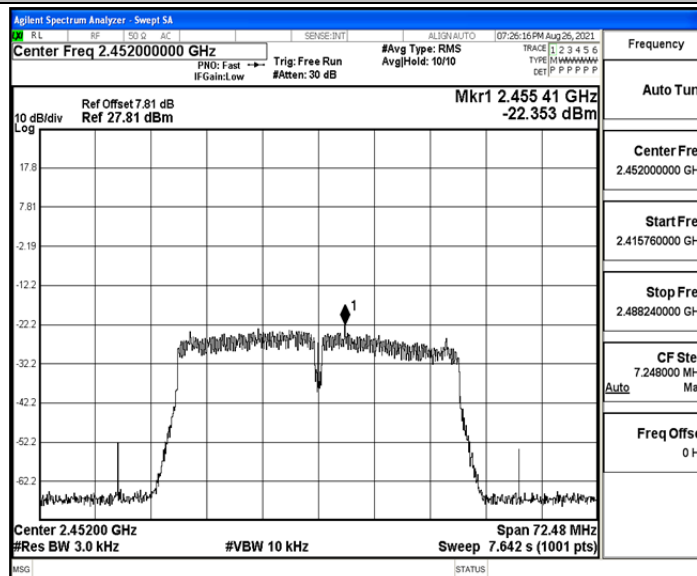




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





A.5 Band edge measurements

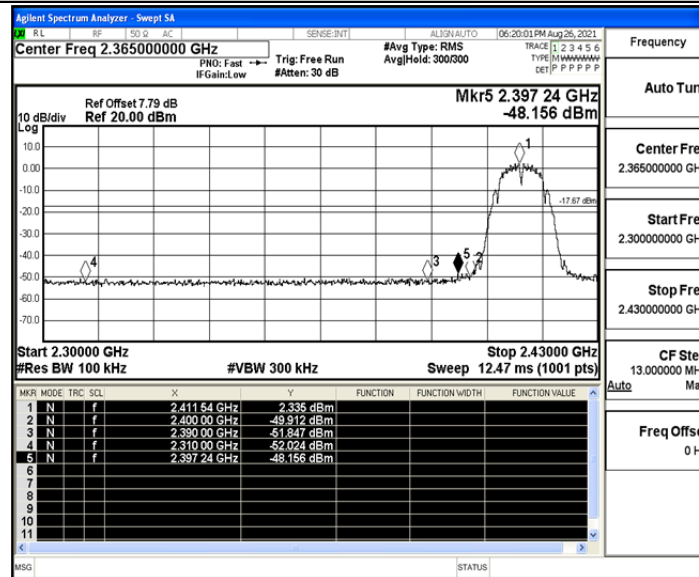
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.34	-48.16	≤ -17.67	PASS
		High	2462	1.77	-48.64	≤ -18.23	PASS
11G	Ant1	Low	2412	-5.49	-43.94	≤ -25.49	PASS
		High	2462	-6.18	-45.22	≤ -26.18	PASS
11N20SISO	Ant1	Low	2412	-6.95	-48.35	≤ -26.95	PASS
		High	2462	-6.03	-45.81	≤ -26.03	PASS
11N40SISO	Ant1	Low	2422	-10.89	-48.33	≤ -30.89	PASS
		High	2452	-10.18	-48.66	≤ -30.18	PASS

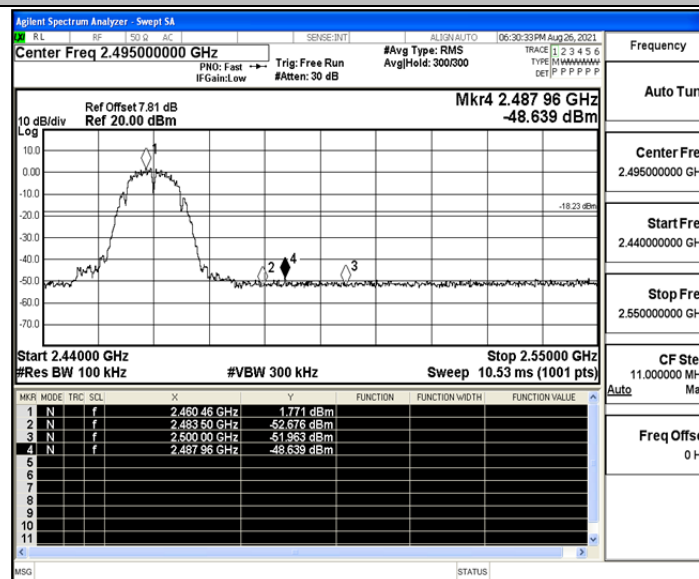


Test Graphs

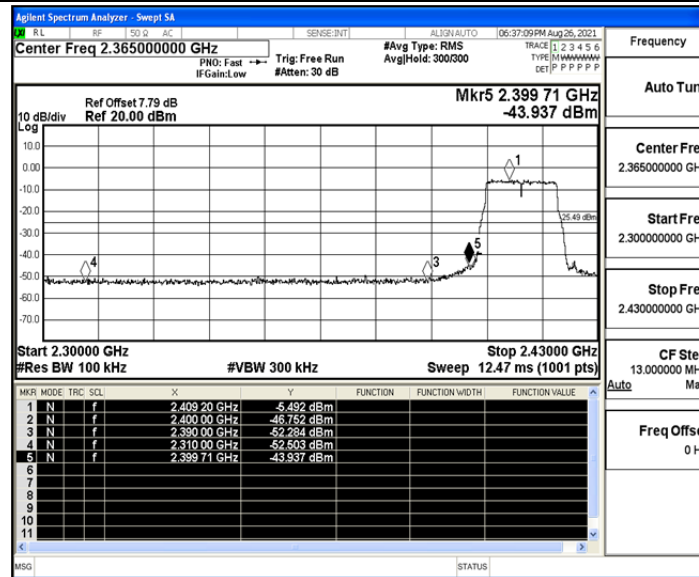
11B_Ant1_Low_2412



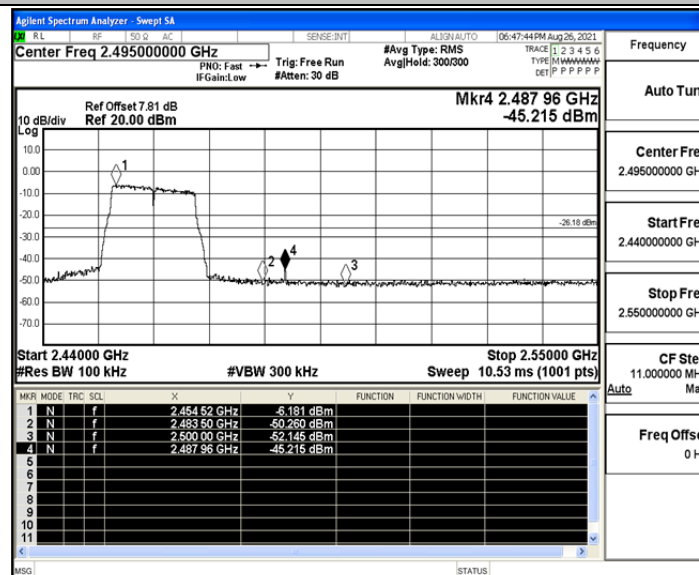
11B_Ant1_High_2462



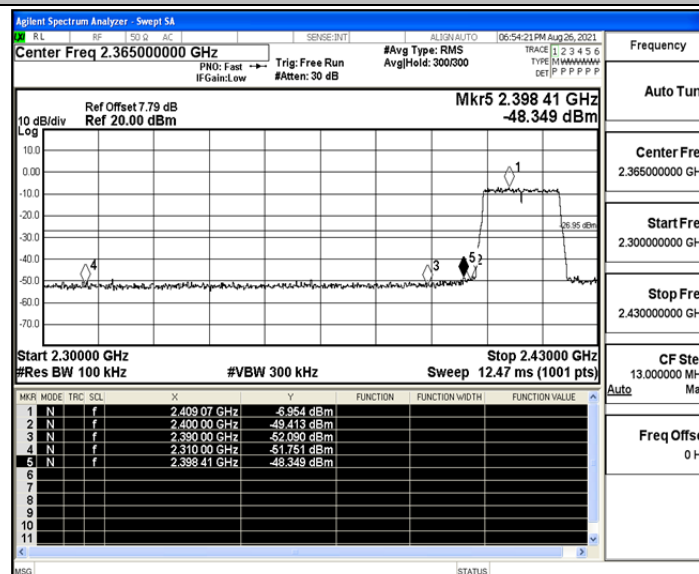
11G_Ant1_Low_2412



11G_Ant1_High_2462

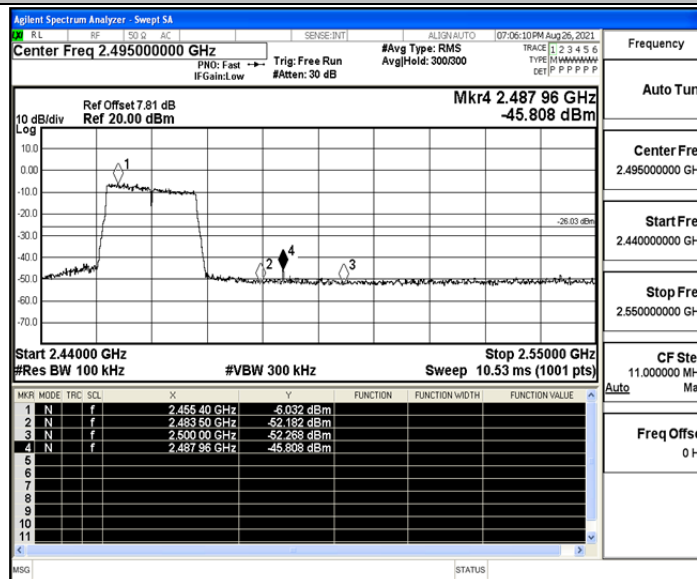


11N20SISO_Ant1_Low_2412

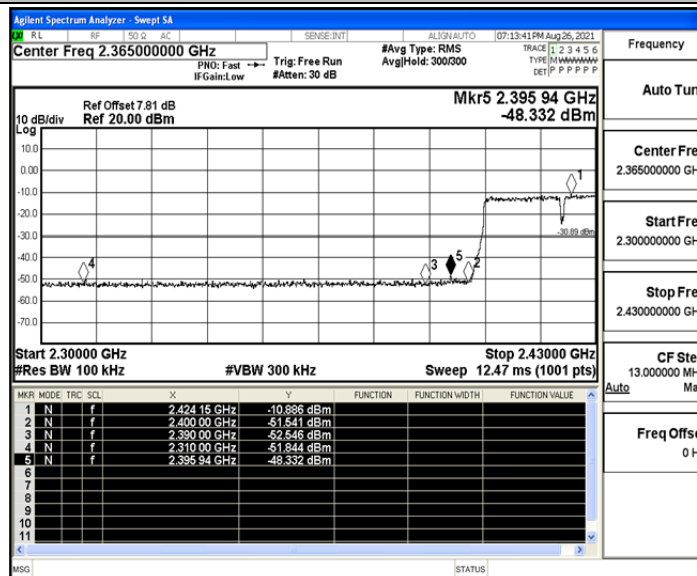




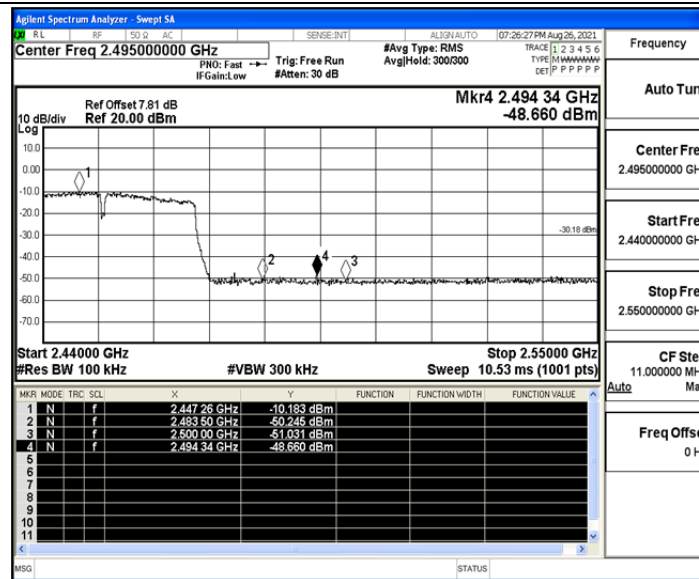
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452





A.6 Conducted Spurious Emission

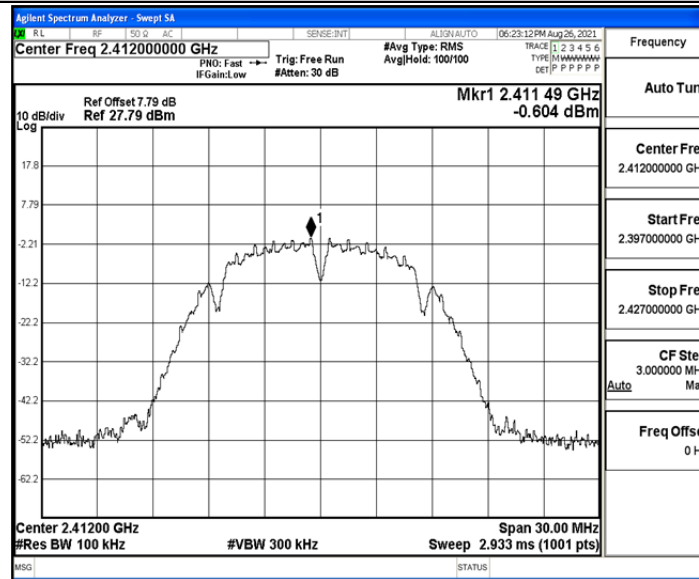
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.60	-0.60	---	PASS
			30~1000	-0.60	-61.79	≤-20.6	PASS
			1000~26500	-0.60	-47.07	≤-20.6	PASS
		2437	Reference	1.47	1.47	---	PASS
			30~1000	1.47	-61.25	≤-18.53	PASS
			1000~26500	1.47	-47.25	≤-18.53	PASS
		2462	Reference	1.70	1.70	---	PASS
			30~1000	1.70	-60.35	≤-18.31	PASS
			1000~26500	1.70	-47.63	≤-18.31	PASS
11G	Ant1	2412	Reference	-5.53	-5.53	---	PASS
			30~1000	-5.53	-60.65	≤-25.53	PASS
			1000~26500	-5.53	-47.34	≤-25.53	PASS
		2437	Reference	-5.90	-5.90	---	PASS
			30~1000	-5.90	-61.37	≤-25.9	PASS
			1000~26500	-5.90	-47.61	≤-25.9	PASS
		2462	Reference	-6.25	-6.25	---	PASS
			30~1000	-6.25	-61.93	≤-26.25	PASS
			1000~26500	-6.25	-47.5	≤-26.25	PASS
11N20SISO	Ant1	2412	Reference	-6.95	-6.95	---	PASS
			30~1000	-6.95	-61.65	≤-26.95	PASS
			1000~26500	-6.95	-47.19	≤-26.95	PASS
		2437	Reference	-7.11	-7.11	---	PASS
			30~1000	-7.11	-60.38	≤-27.11	PASS
			1000~26500	-7.11	-47.46	≤-27.11	PASS
		2462	Reference	-6.48	-6.48	---	PASS
			30~1000	-6.48	-61.68	≤-26.48	PASS
			1000~26500	-6.48	-47.71	≤-26.48	PASS
11N40SISO	Ant1	2422	Reference	-10.11	-10.11	---	PASS
			30~1000	-10.11	-61.26	≤-30.11	PASS
			1000~26500	-10.11	-47.61	≤-30.11	PASS
		2437	Reference	-10.50	-10.50	---	PASS
			30~1000	-10.50	-59.11	≤-30.5	PASS
			1000~26500	-10.50	-47.19	≤-30.5	PASS
		2452	Reference	-10.32	-10.32	---	PASS
			30~1000	-10.32	-61.2	≤-30.32	PASS
			1000~26500	-10.32	-46.86	≤-30.32	PASS

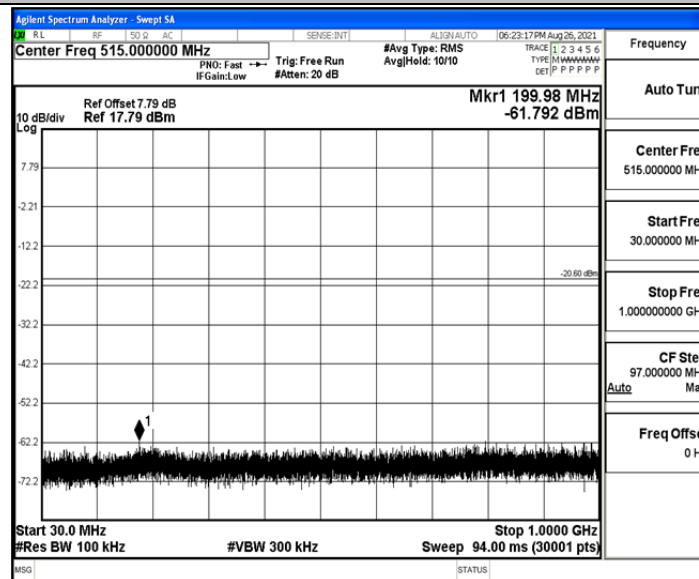


Test Graphs

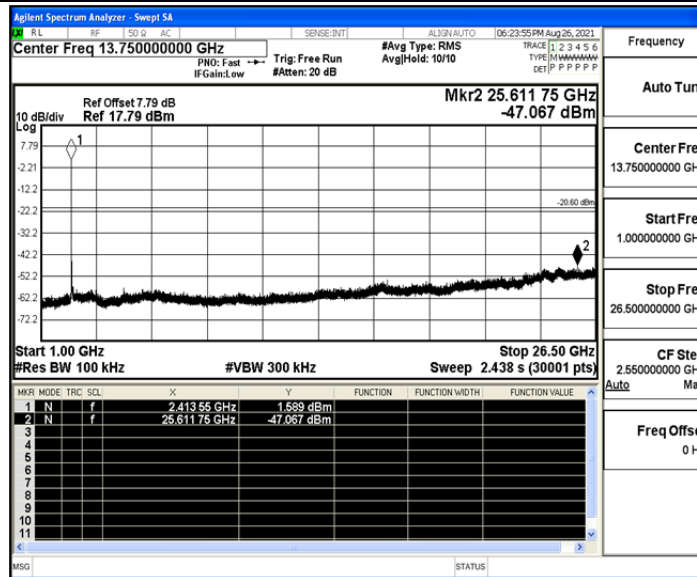
11B_Ant1_2412_0~Reference



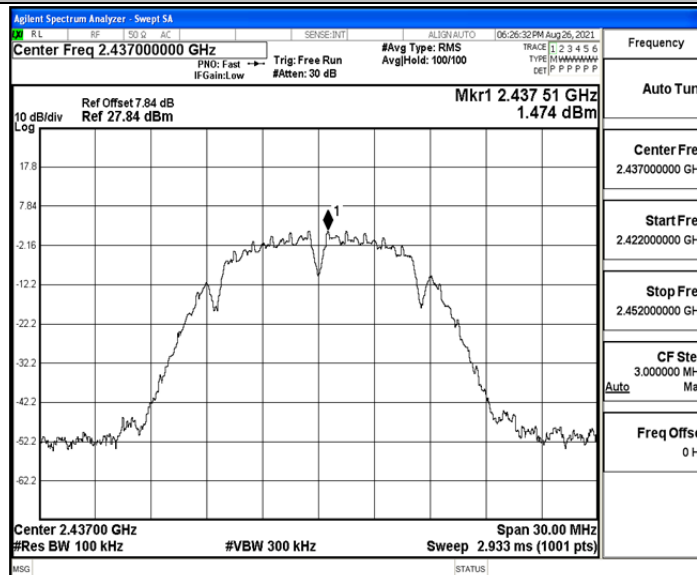
11B_Ant1_2412_30~1000



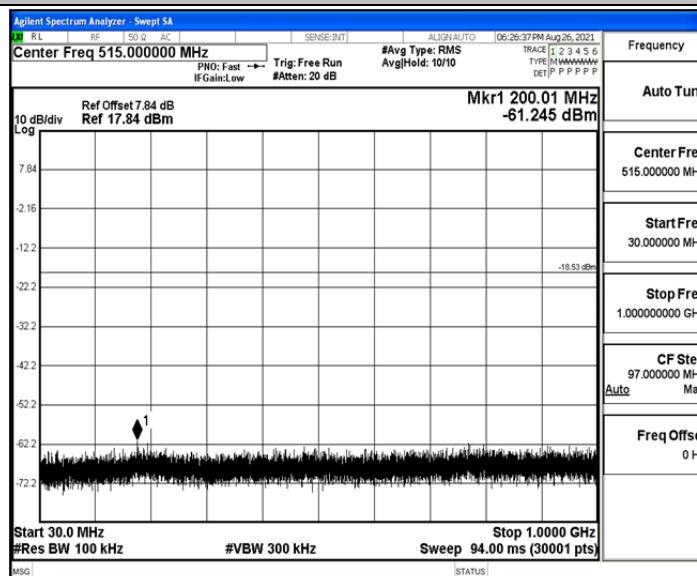
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference

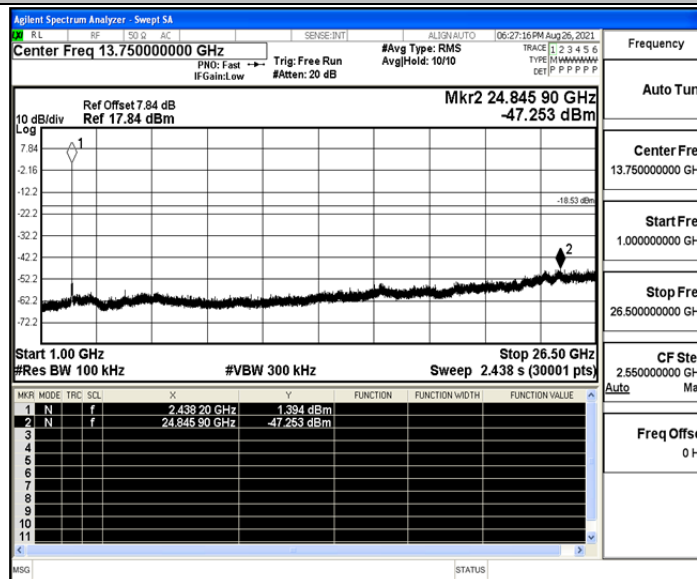


11B_Ant1_2437_30~1000

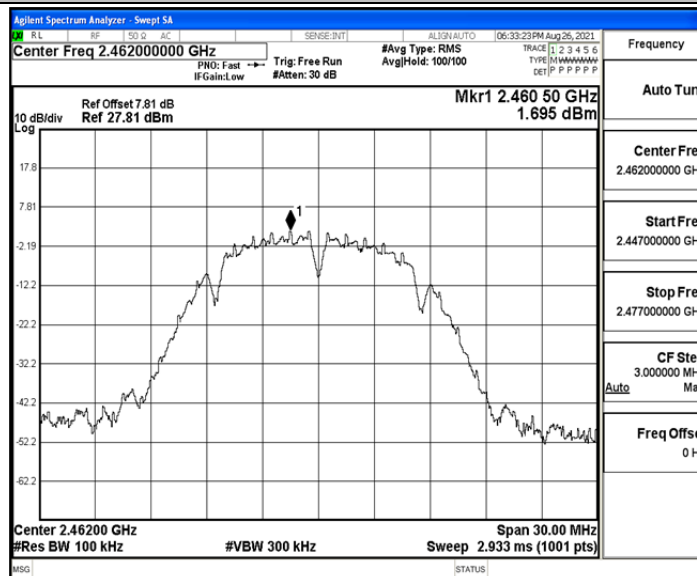




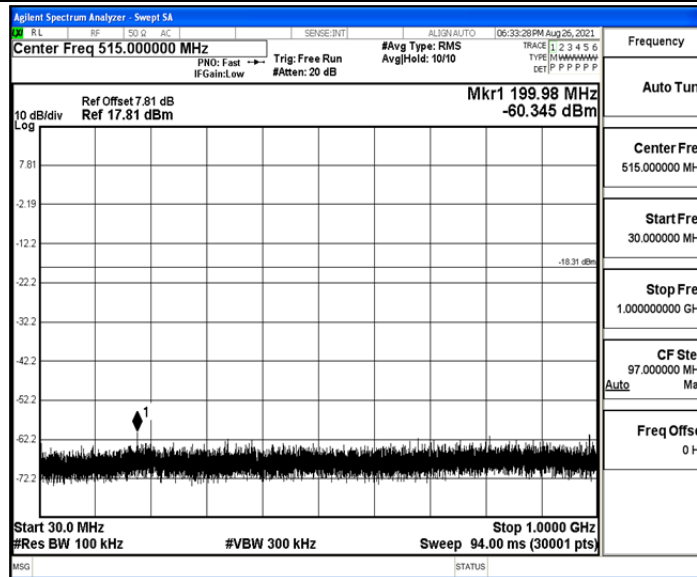
11B_Ant1_2437_1000~26500



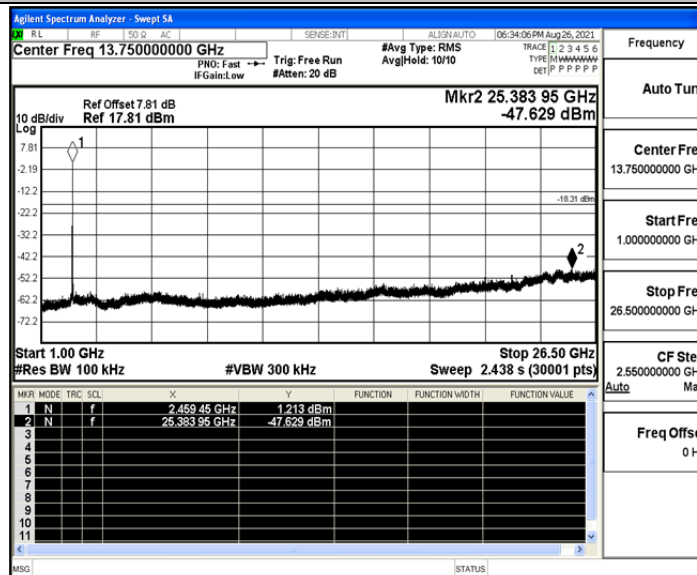
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

