



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Notebook

Test Model: M116

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan

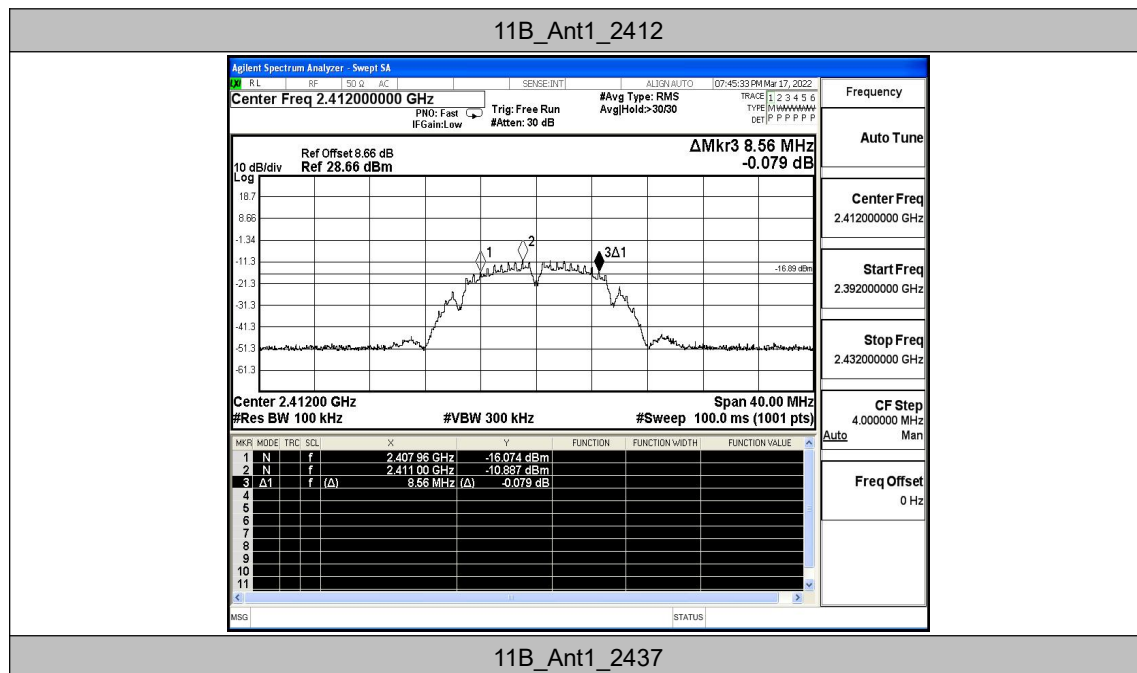


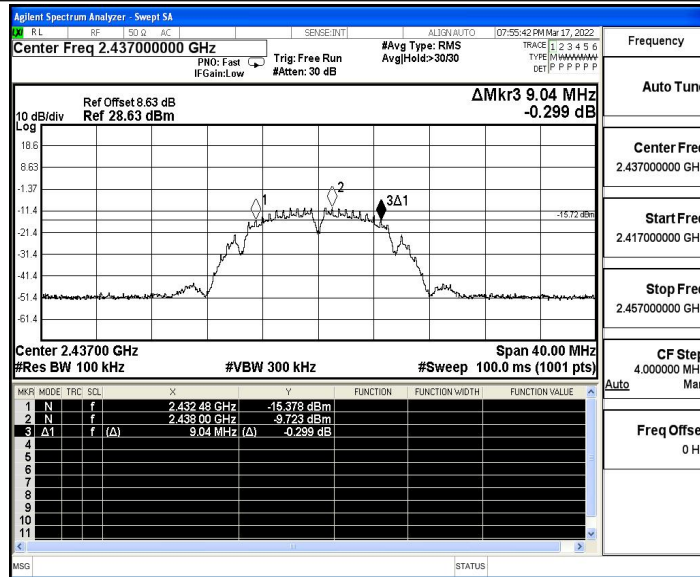
C.1 6dB Bandwidth

Test Result

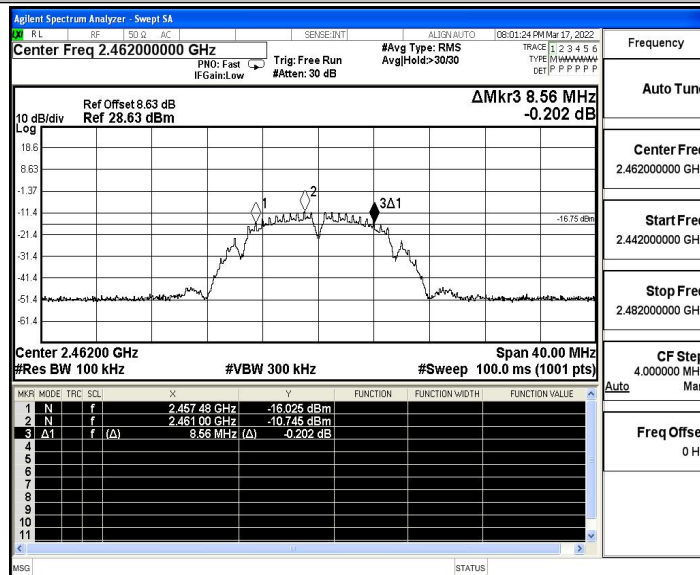
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2407.960	2416.520	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	8.560	2457.480	2466.040	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	16.280	2428.840	2445.120	0.5	PASS
		2462	16.040	2453.840	2469.880	0.5	PASS
11N20SISO	Ant1	2412	16.680	2403.920	2420.600	0.5	PASS
		2437	16.960	2428.520	2445.480	0.5	PASS
		2462	16.960	2453.360	2470.320	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.480	2439.920	0.5	PASS
		2437	35.840	2419.080	2454.920	0.5	PASS
		2452	35.440	2434.080	2469.520	0.5	PASS

Test Graphs

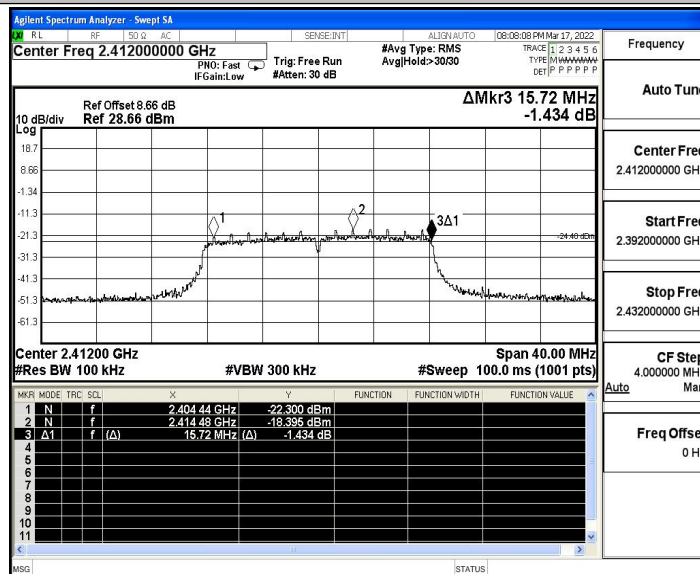




11B_Ant1_2462

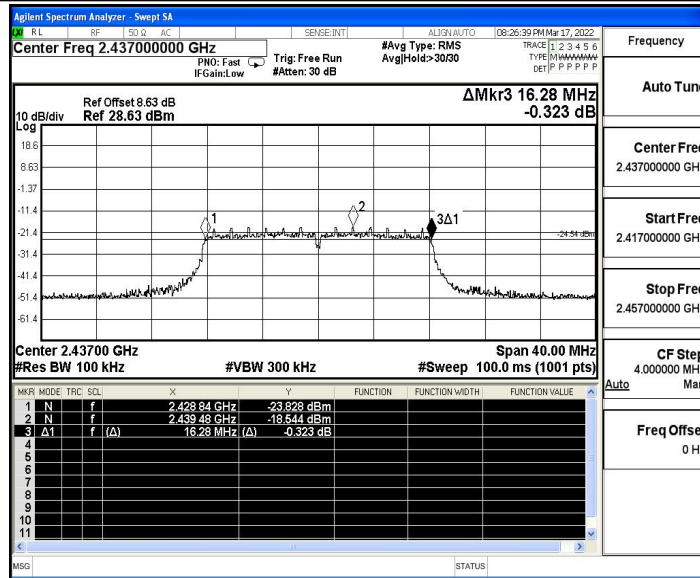


11G_Ant1_2412

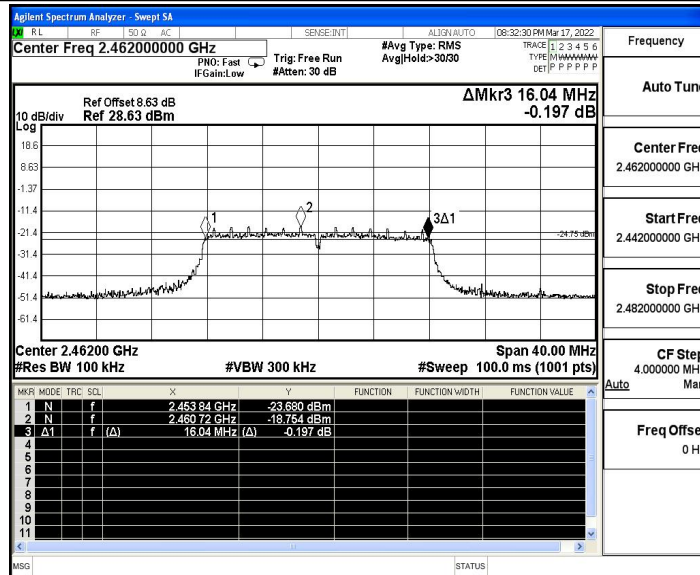




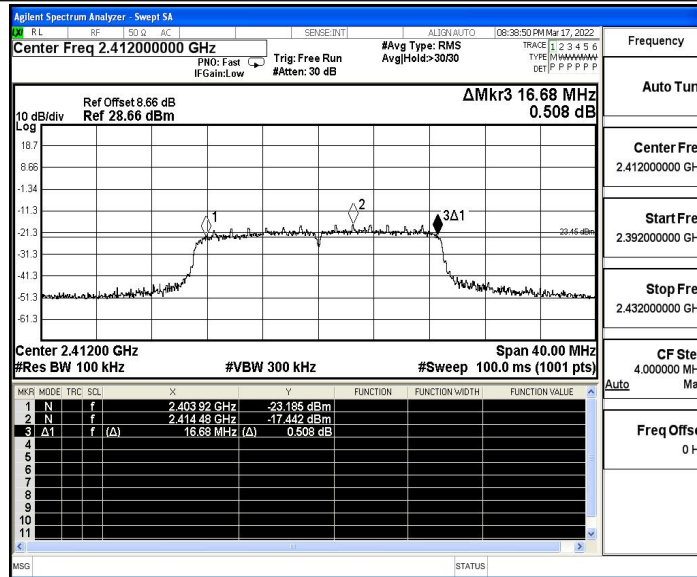
11G_Ant1_2437



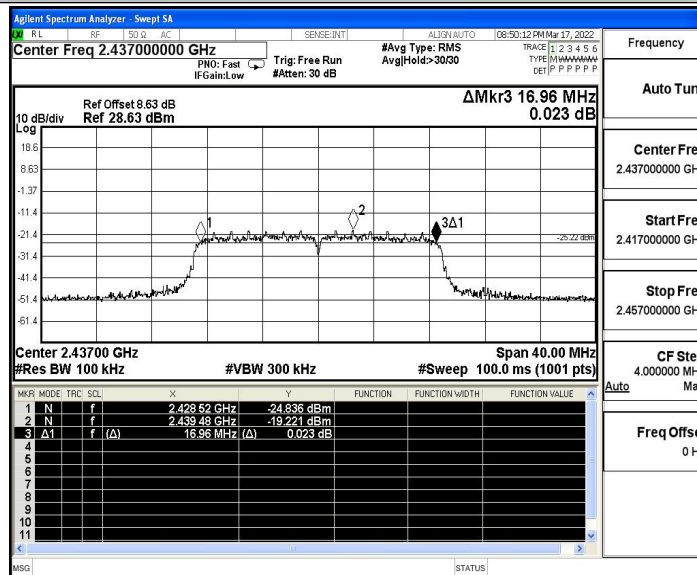
11G_Ant1_2462



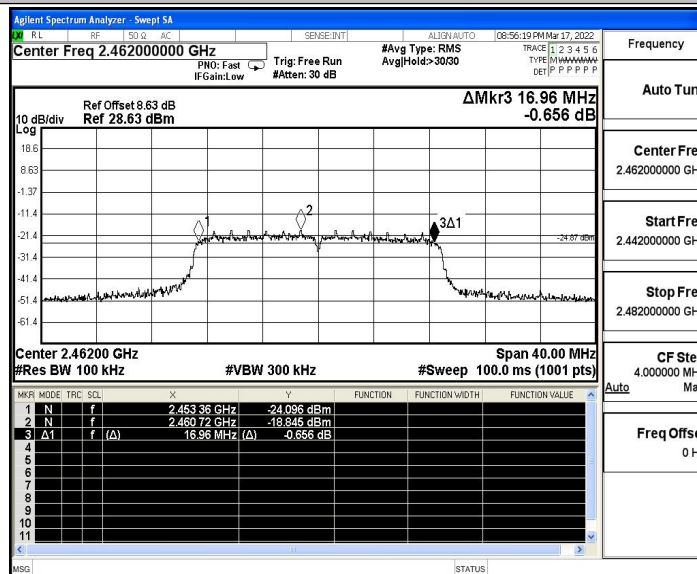
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

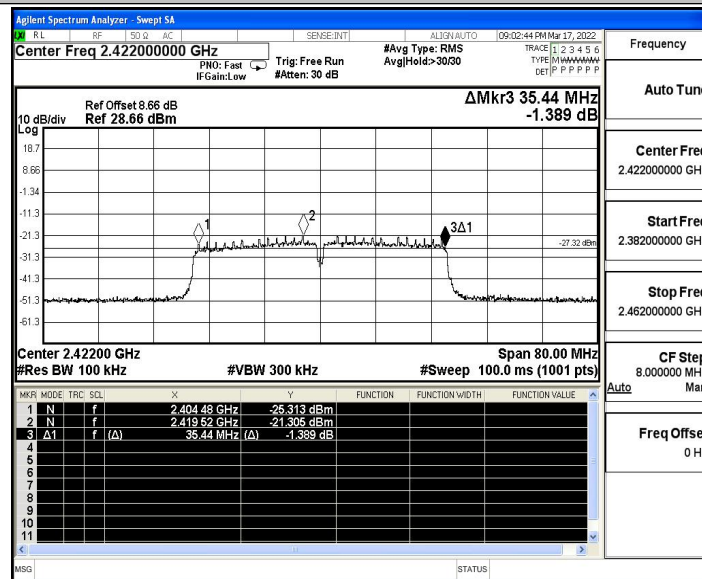


11N20SISO_Ant1_2462

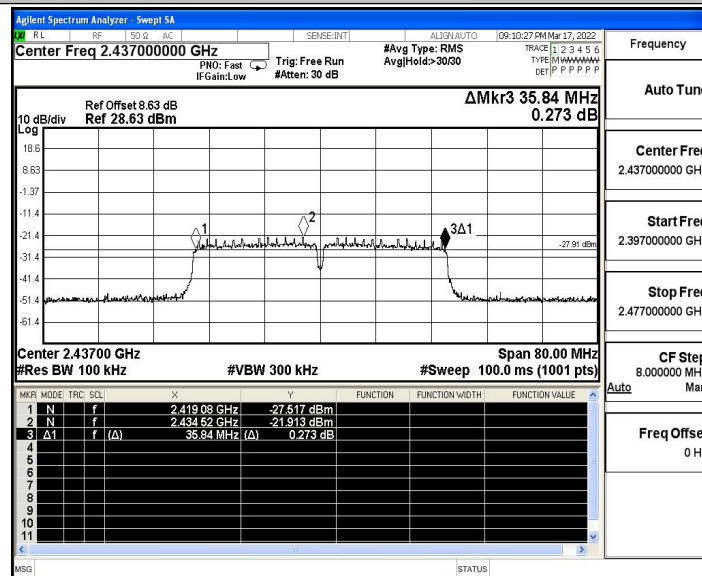




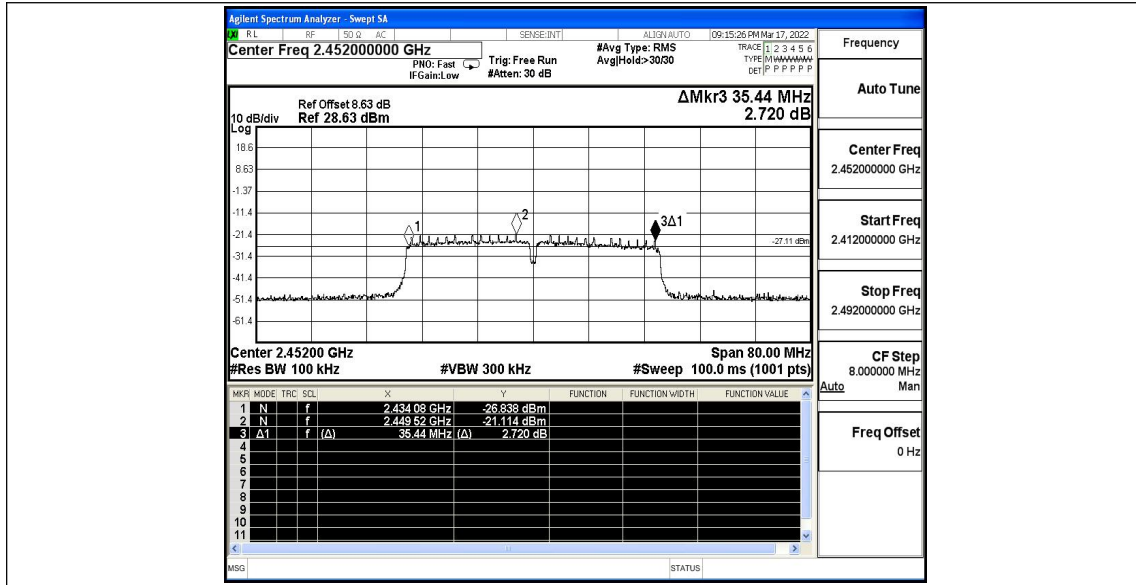
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequen cy[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	---	0.72	≤30.00	0.72	≤36.00	PASS
		2437	---	1.84	≤30.00	1.84	≤36.00	PASS
		2462	---	0.75	≤30.00	0.75	≤36.00	PASS
11G	Ant1	2412	---	0.49	≤30.00	0.49	≤36.00	PASS
		2437	---	0.66	≤30.00	0.66	≤36.00	PASS
		2462	---	0.55	≤30.00	0.55	≤36.00	PASS
11N20SIS O	Ant1	2412	---	2.00	≤30.00	2.00	≤36.00	PASS
		2437	---	0.81	≤30.00	0.81	≤36.00	PASS
		2462	---	1.07	≤30.00	1.07	≤36.00	PASS
11N40SIS O	Ant1	2422	---	0.96	≤30.00	0.96	≤36.00	PASS
		2437	---	0.62	≤30.00	0.62	≤36.00	PASS
		2452	---	1.20	≤30.00	1.20	≤36.00	PASS

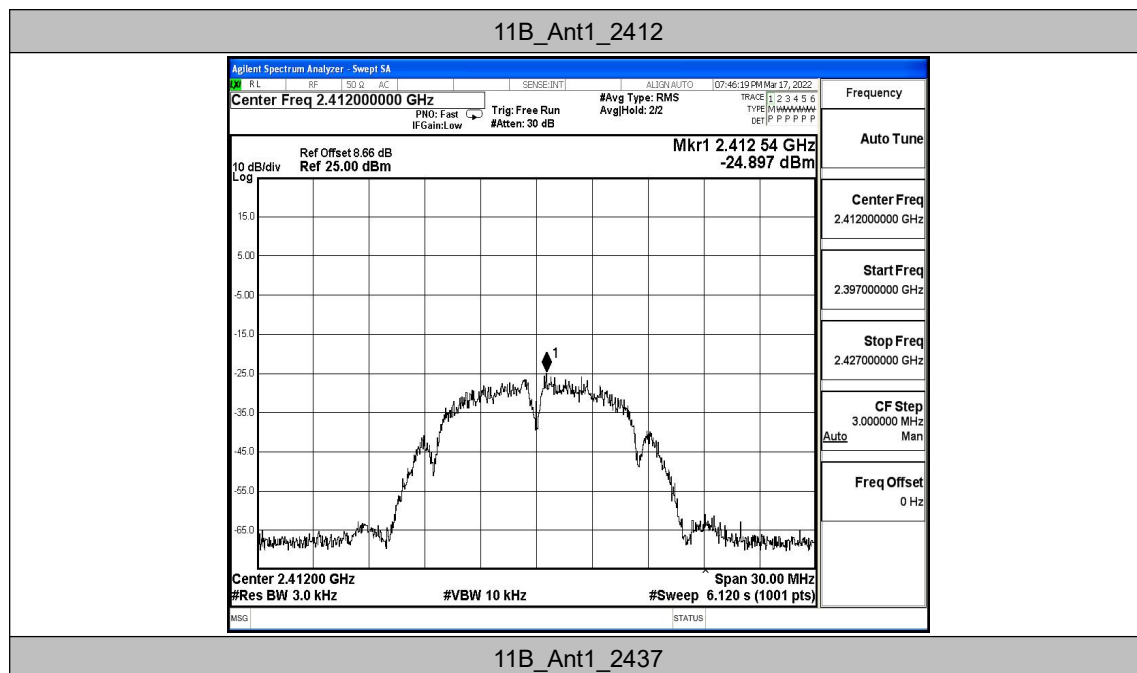


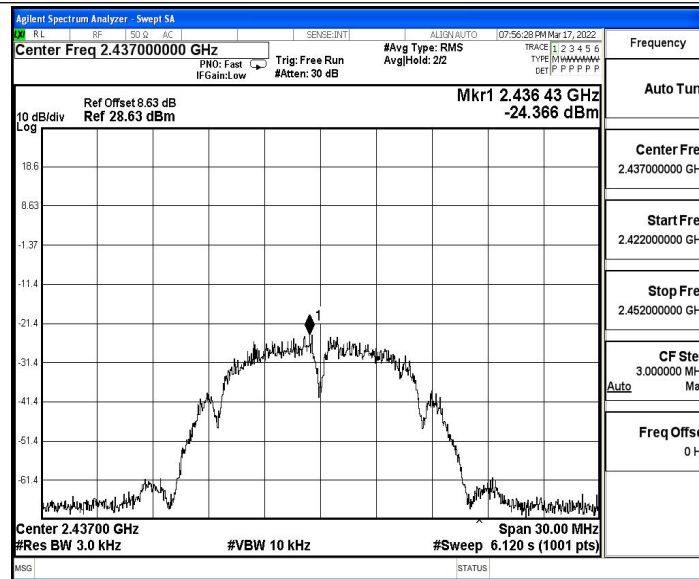
C.3 Maximum power spectral density

Test Result

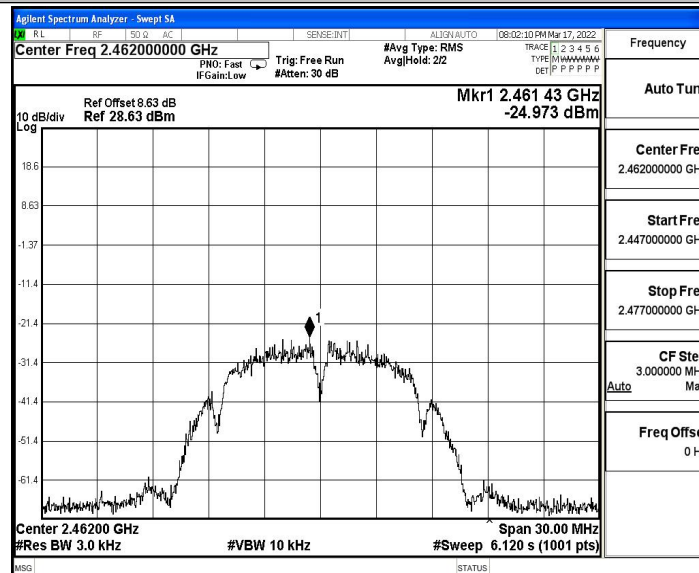
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-24.9	≤8.00	PASS
		2437	-24.37	≤8.00	PASS
		2462	-24.97	≤8.00	PASS
11G	Ant1	2412	-34.67	≤8.00	PASS
		2437	-34.54	≤8.00	PASS
		2462	-33.86	≤8.00	PASS
11N20SISO	Ant1	2412	-33.45	≤8.00	PASS
		2437	-34.64	≤8.00	PASS
		2462	-34.23	≤8.00	PASS
11N40SISO	Ant1	2422	-37.32	≤8.00	PASS
		2437	-37.3	≤8.00	PASS
		2452	-37.04	≤8.00	PASS

Test Graphs

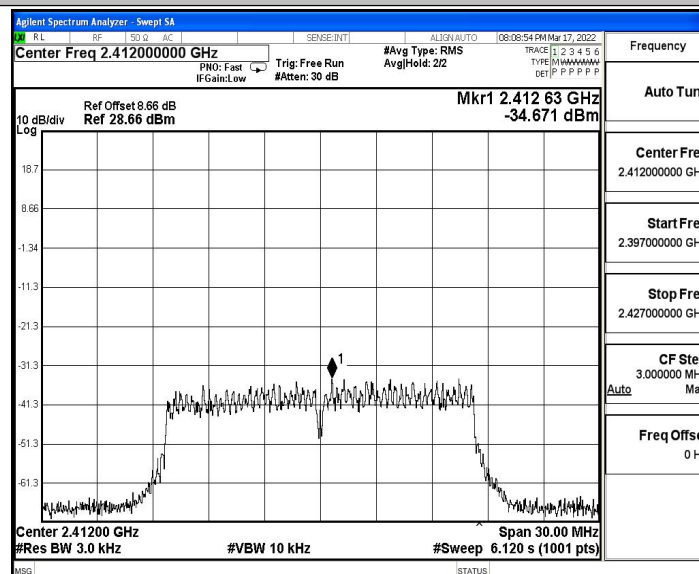




11B_Ant1_2462

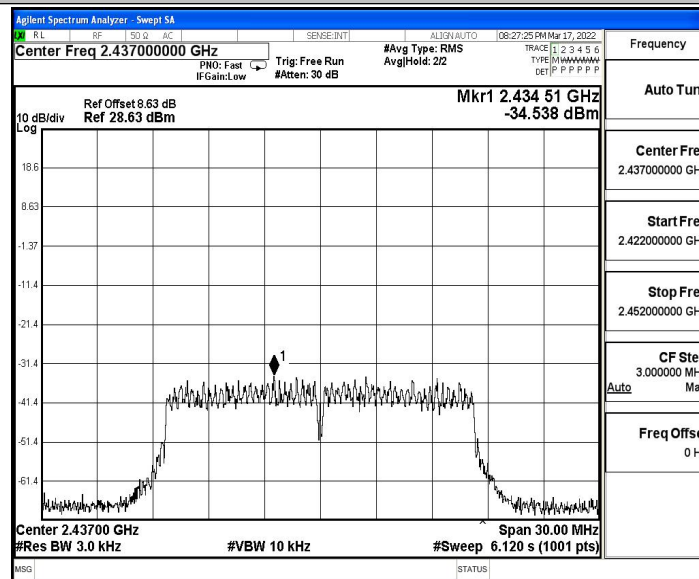


11G_Ant1_2412

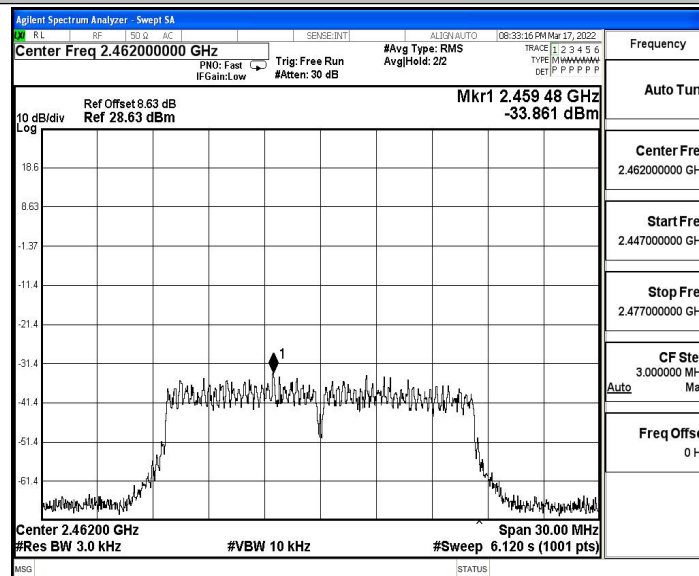




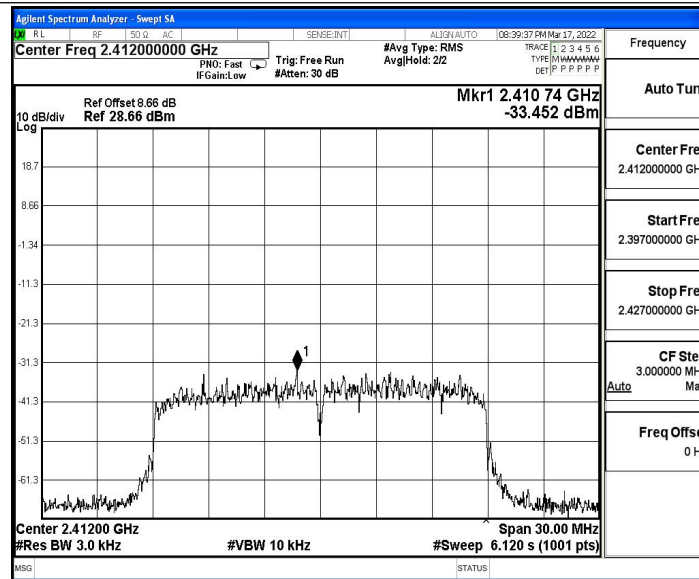
11G_Ant1_2437



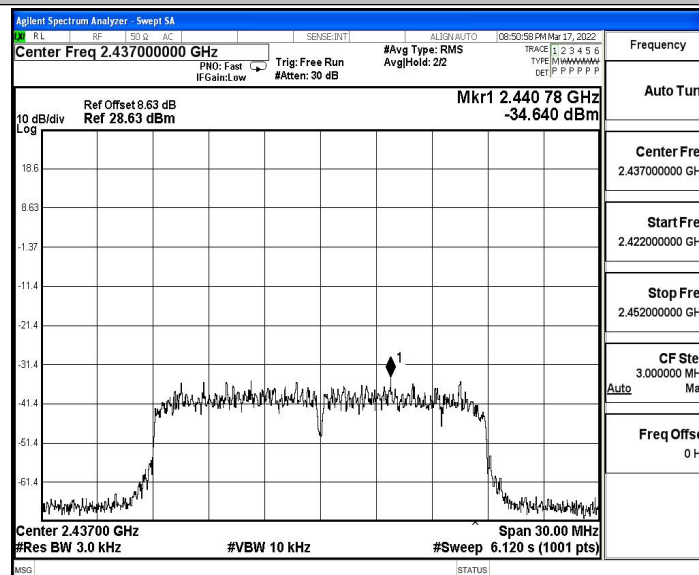
11G_Ant1_2462



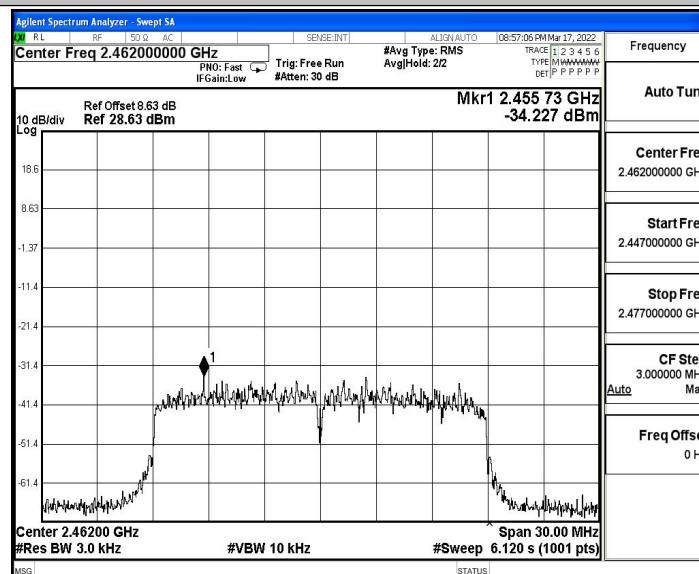
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

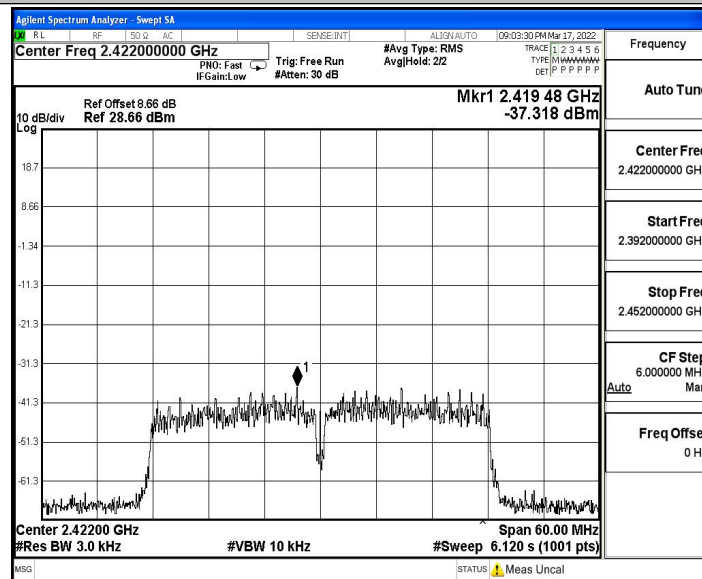


11N20SISO_Ant1_2462

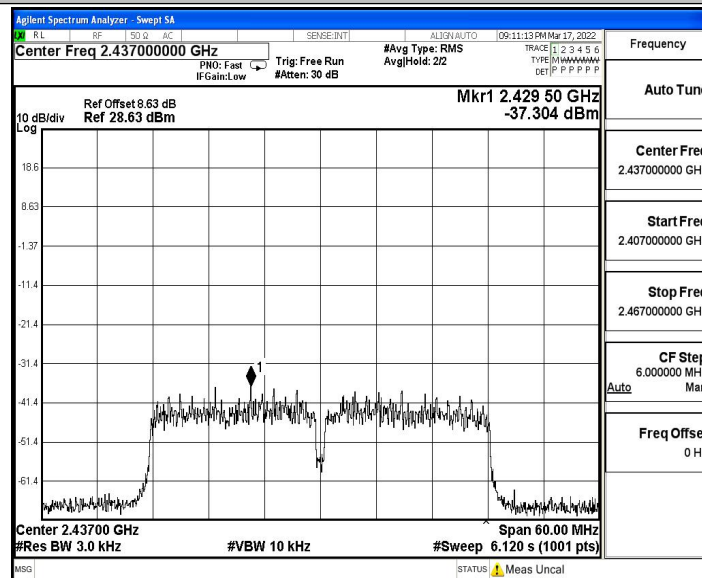




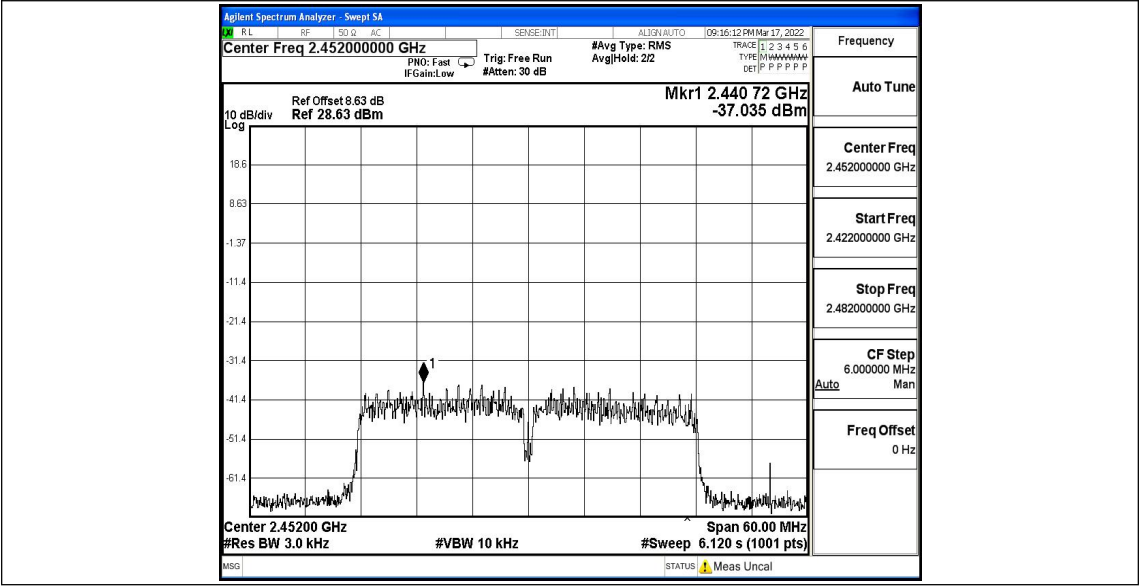
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





C.4 Band edge measurements

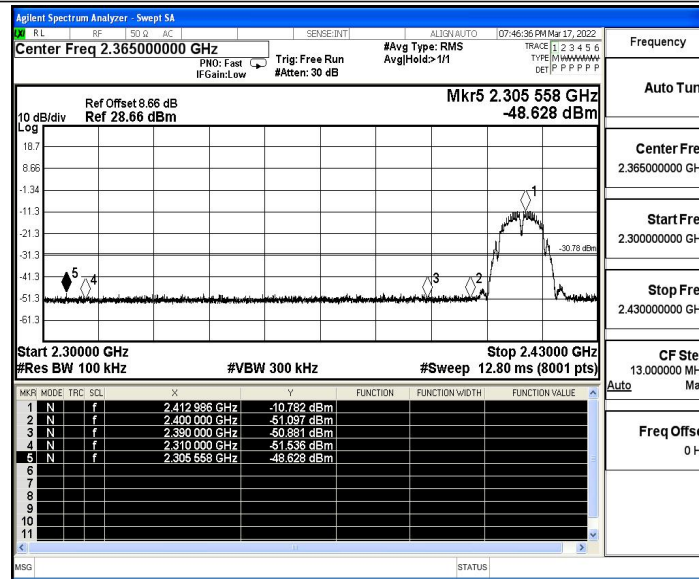
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-10.78	-48.63	≤-30.78	PASS
		High	2462	-10.81	-47.88	≤-30.81	PASS
11G	Ant1	Low	2412	-18.24	-49.03	≤-38.24	PASS
		High	2462	-18.55	-47.86	≤-38.55	PASS
11N20SISO	Ant1	Low	2412	-17.31	-47.54	≤-37.31	PASS
		High	2462	-18.57	-47.62	≤-38.57	PASS
11N40SISO	Ant1	Low	2422	-21.11	-48.35	≤-41.11	PASS
		High	2452	-21.09	-47.94	≤-41.09	PASS

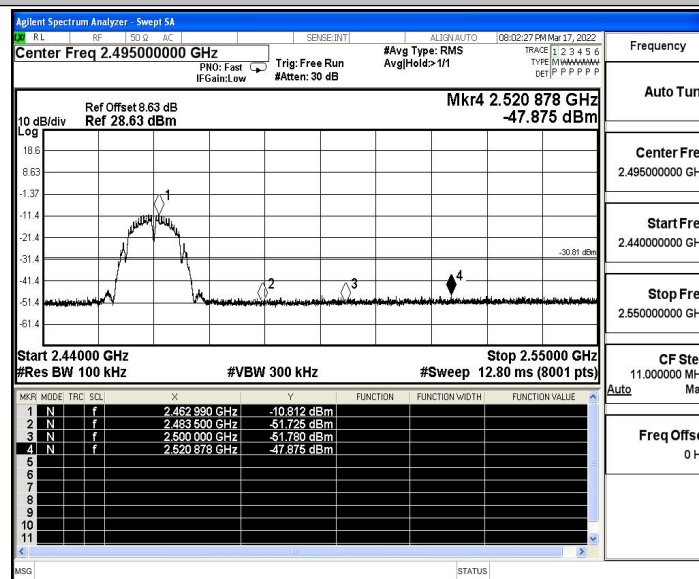


Test Graphs

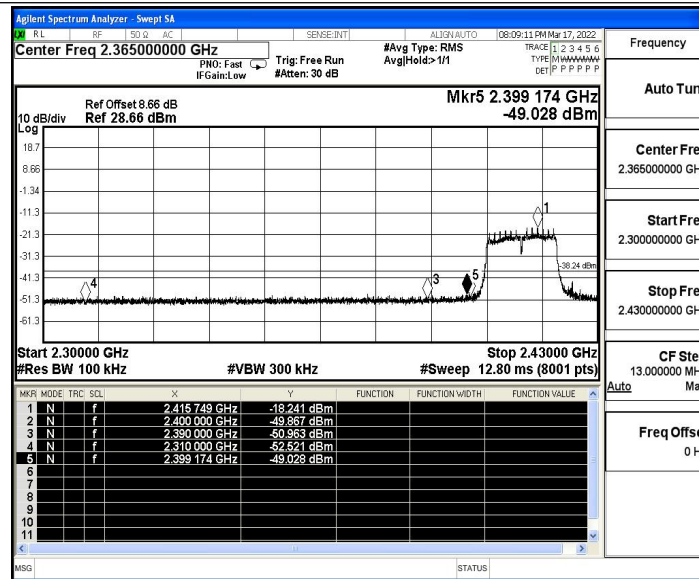
11B_Ant1_Low_2412



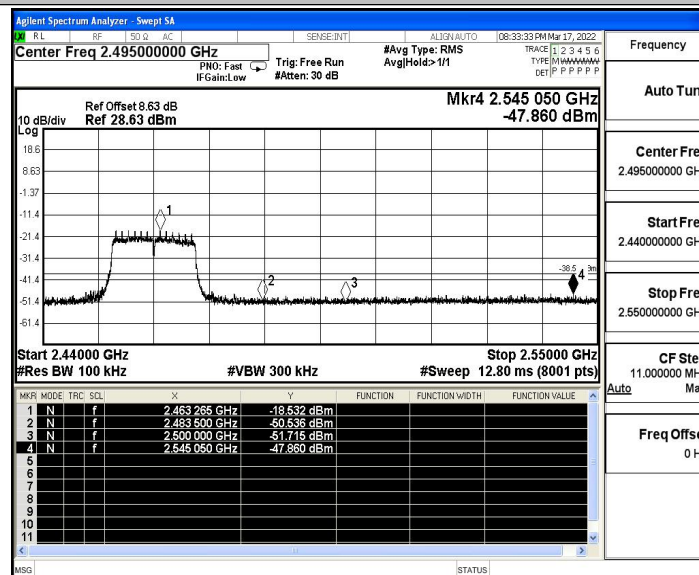
11B_Ant1_High_2462



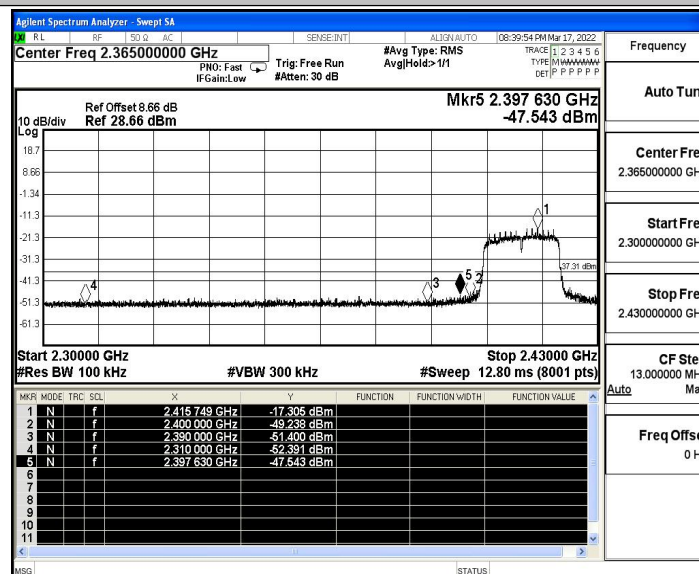
11G_Ant1_Low_2412



11G_Ant1_High_2462

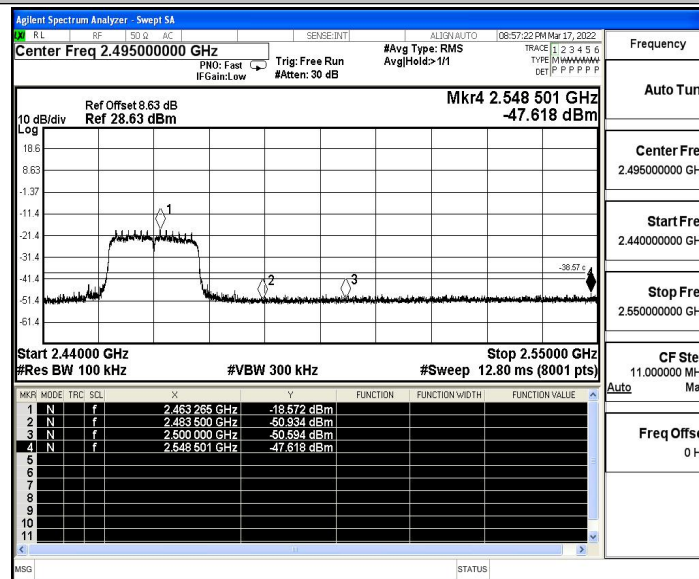


11N20SISO_Ant1_Low_2412

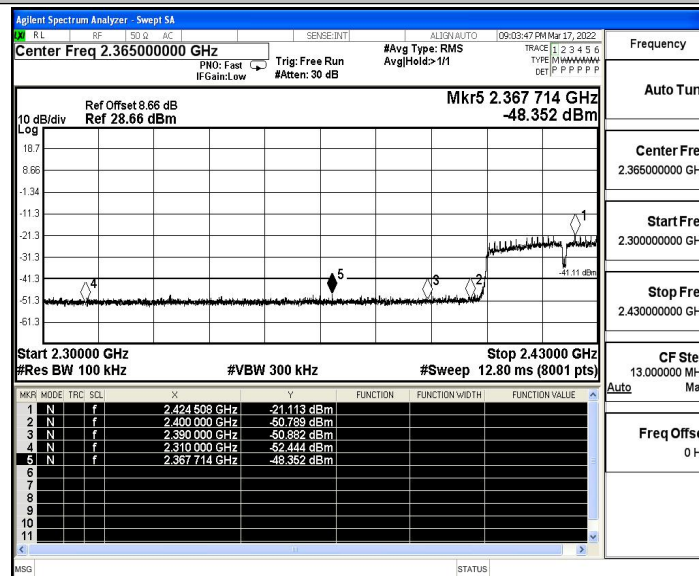




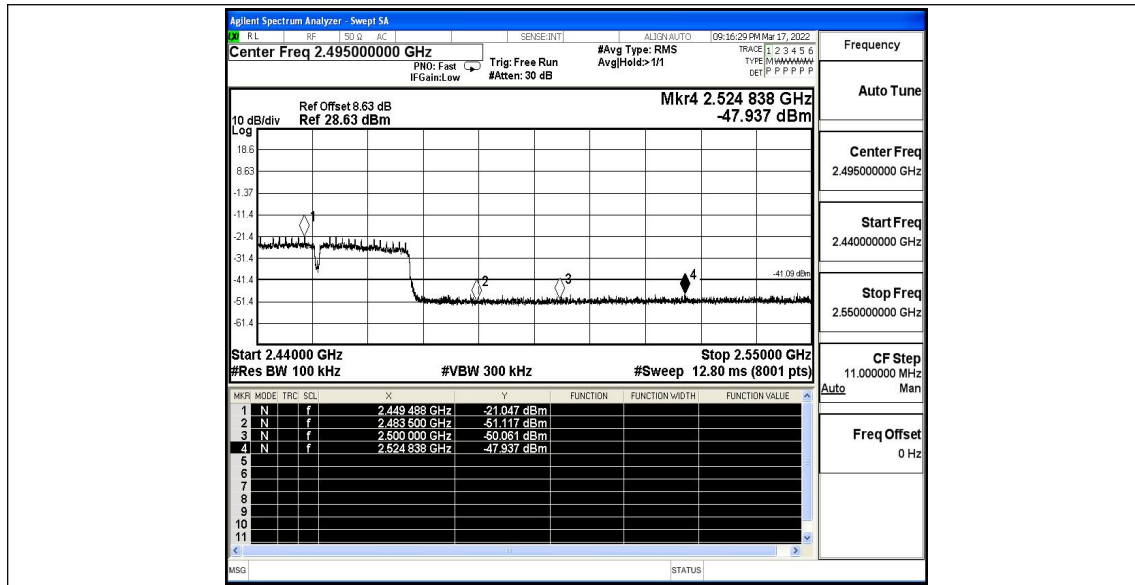
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452





C.5 Conducted Spurious Emission

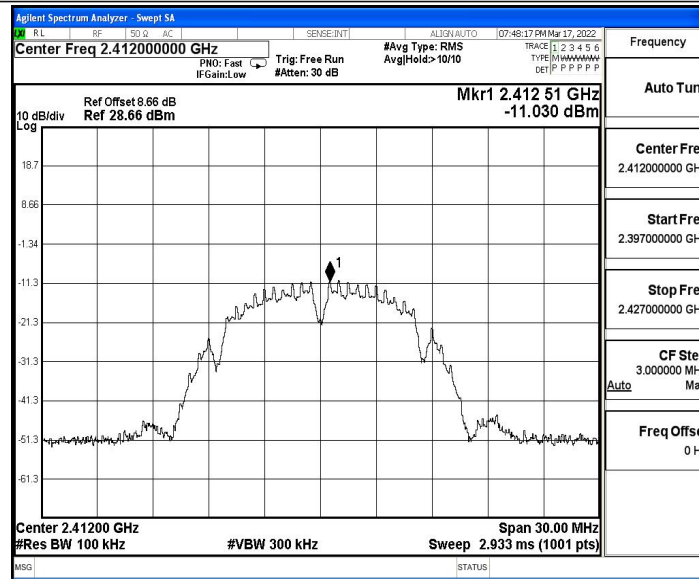
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-11.03	-11.03	---	PASS
			30~1000	-11.03	-60.92	≤-31.03	PASS
			1000~26500	-11.03	-46.43	≤-31.03	PASS
		2437	Reference	-9.64	-9.64	---	PASS
			30~1000	-9.64	-60.87	≤-29.64	PASS
			1000~26500	-9.64	-45.93	≤-29.64	PASS
		2462	Reference	-10.78	-10.78	---	PASS
			30~1000	-10.78	-59.62	≤-30.78	PASS
			1000~26500	-10.78	-46.38	≤-30.78	PASS
11G	Ant1	2412	Reference	-18.18	-18.18	---	PASS
			30~1000	-18.18	-61.09	≤-38.18	PASS
			1000~26500	-18.18	-46.04	≤-38.18	PASS
		2437	Reference	-18.14	-18.14	---	PASS
			30~1000	-18.14	-60.89	≤-38.14	PASS
			1000~26500	-18.14	-45.88	≤-38.14	PASS
		2462	Reference	-18.35	-18.35	---	PASS
			30~1000	-18.35	-60.93	≤-38.35	PASS
			1000~26500	-18.35	-46.18	≤-38.35	PASS
11N20SISO	Ant1	2412	Reference	-17.27	-17.27	---	PASS
			30~1000	-17.27	-60.07	≤-37.27	PASS
			1000~26500	-17.27	-45.9	≤-37.27	PASS
		2437	Reference	-18.95	-18.95	---	PASS
			30~1000	-18.95	-60.72	≤-38.95	PASS
			1000~26500	-18.95	-45.49	≤-38.95	PASS
		2462	Reference	-18.48	-18.48	---	PASS
			30~1000	-18.48	-59.97	≤-38.48	PASS
			1000~26500	-18.48	-45.96	≤-38.48	PASS
11N40SISO	Ant1	2422	Reference	-21.26	-21.26	---	PASS
			30~1000	-21.26	-60.35	≤-41.26	PASS
			1000~26500	-21.26	-45.95	≤-41.26	PASS
		2437	Reference	-21.72	-21.72	---	PASS
			30~1000	-21.72	-60.74	≤-41.72	PASS
			1000~26500	-21.72	-45.77	≤-41.72	PASS
		2452	Reference	-21.08	-21.08	---	PASS
			30~1000	-21.08	-60.24	≤-41.08	PASS
			1000~26500	-21.08	-46.3	≤-41.08	PASS

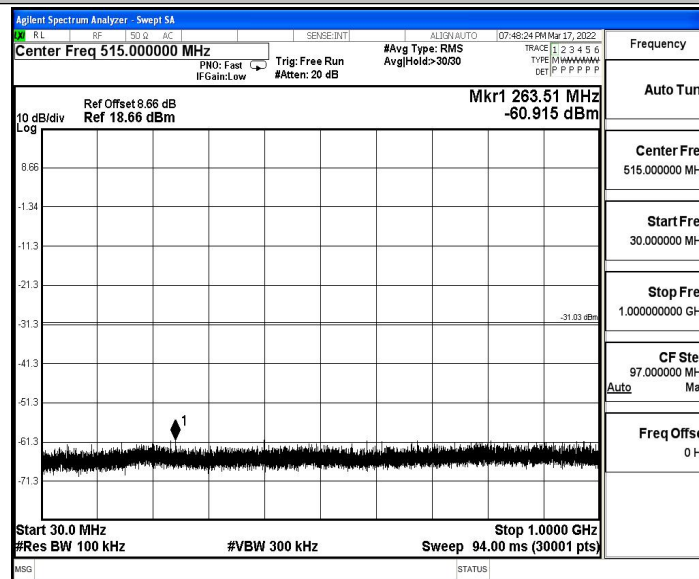


Test Graphs

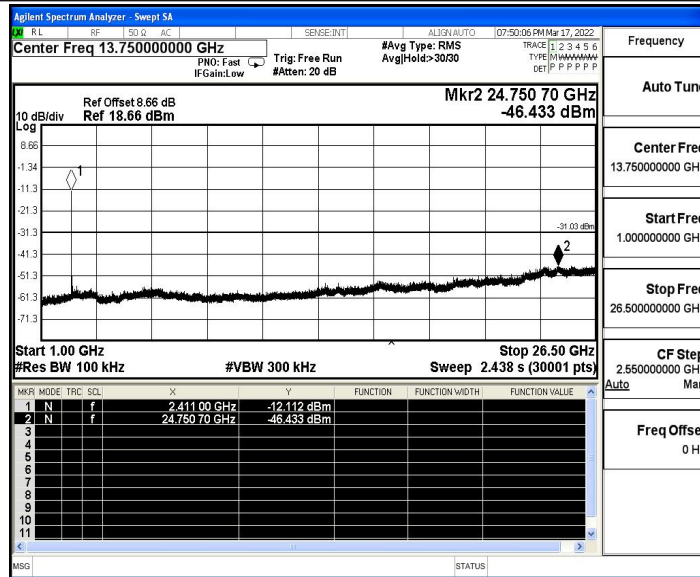
11B_Ant1_2412_0~Reference



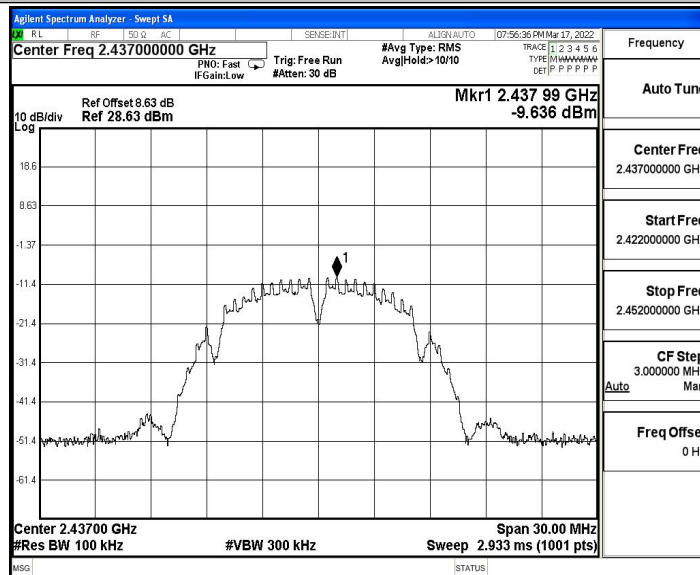
11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

