

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BVIK-PF01-V

Company : Dongguan Pabbi Intelligent Technology Co., Ltd.

EUT : Pet Feeder

Model Number : PF01-V

Report No. : CTA26032301202

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

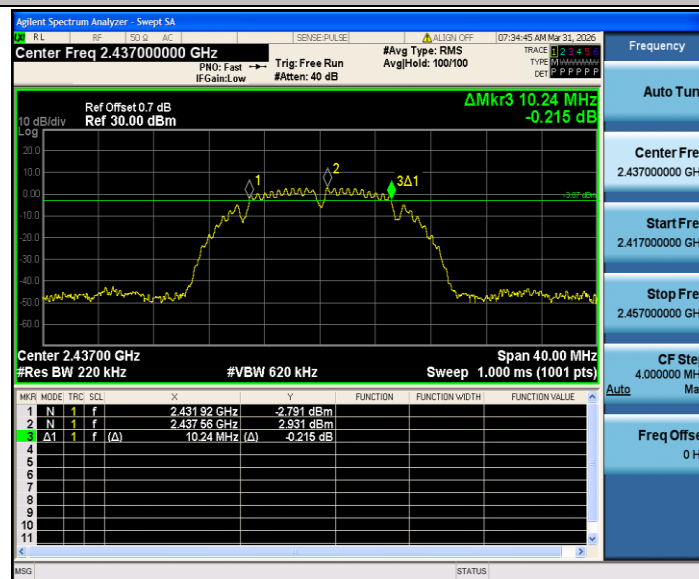
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.800	2404.160	2419.960	0.5	PASS
		2437	15.720	2429.160	2444.880	0.5	PASS
		2462	15.880	2454.120	2470.000	0.5	PASS
11N20SISO	Ant1	2412	16.680	2403.920	2420.600	0.5	PASS
		2437	16.000	2429.440	2445.440	0.5	PASS
		2462	17.080	2453.560	2470.640	0.5	PASS

Test Graphs

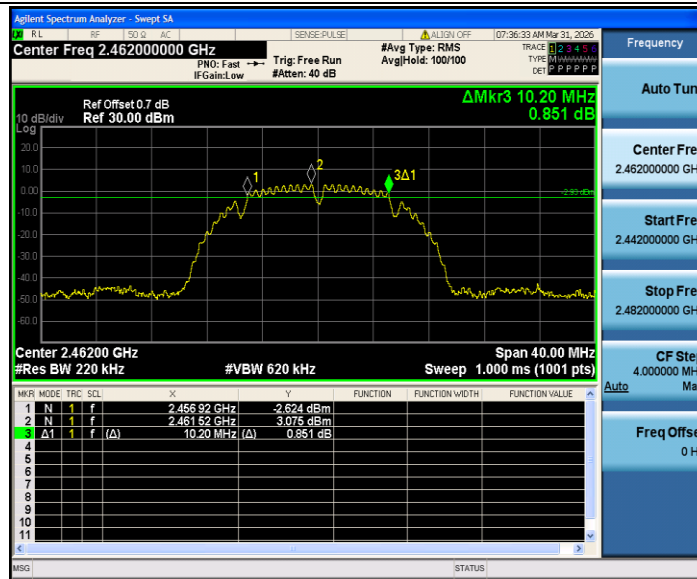
11B_Ant1_2412



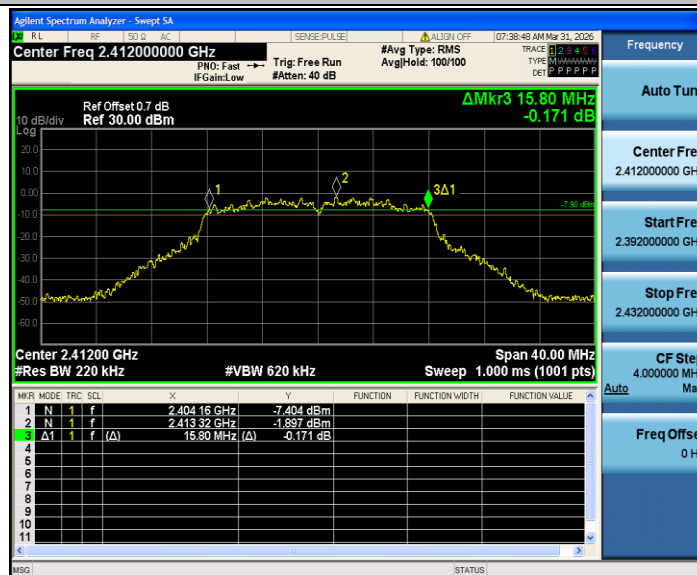
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



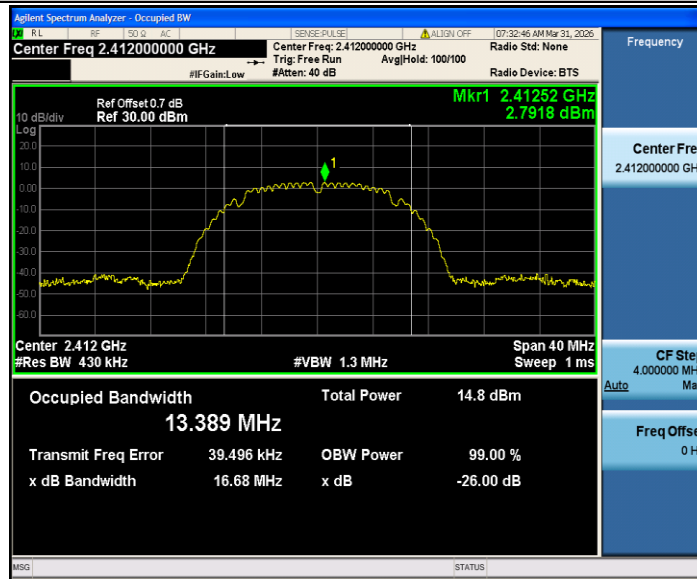
Appendix B: Occupied Channel Bandwidth

Test Result

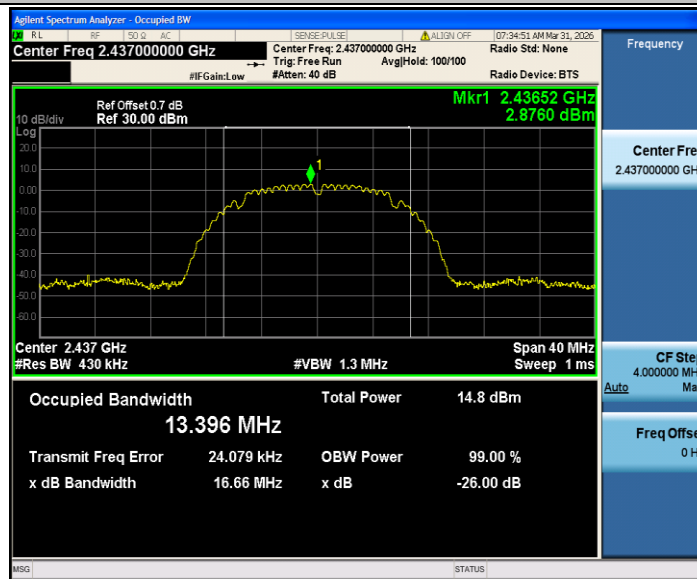
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.389	2405.3450	2418.7340	---	---
		2437	13.396	2430.3261	2443.7221	---	---
		2462	13.414	2455.3028	2468.7168	---	---
11G	Ant1	2412	16.861	2403.6418	2420.5028	---	---
		2437	16.725	2428.7039	2445.4289	---	---
		2462	16.834	2453.5999	2470.4339	---	---
11N20SISO	Ant1	2412	17.906	2403.0837	2420.9897	---	---
		2437	17.889	2428.1043	2445.9933	---	---
		2462	17.878	2453.0542	2470.9322	---	---

Test Graphs

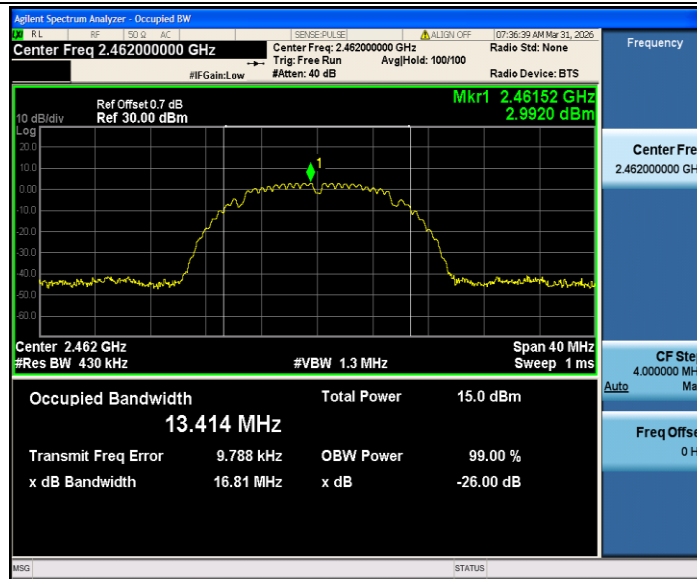
11B_Ant1_2412



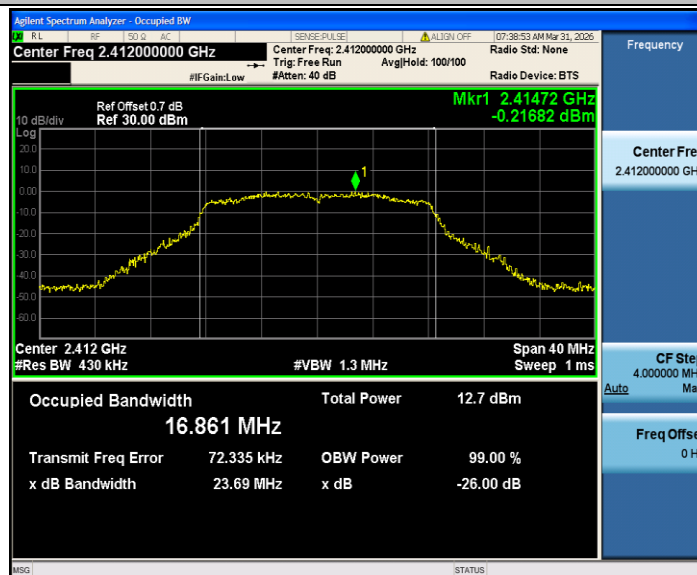
11B_Ant1_2437



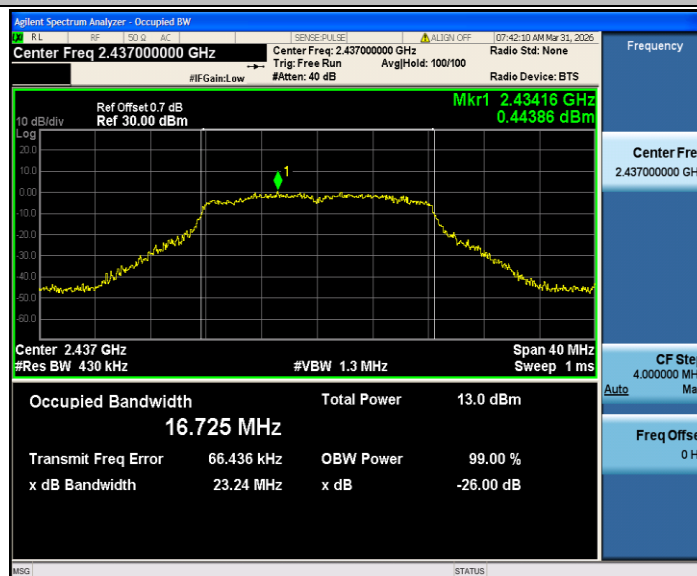
11B_Ant1_2462



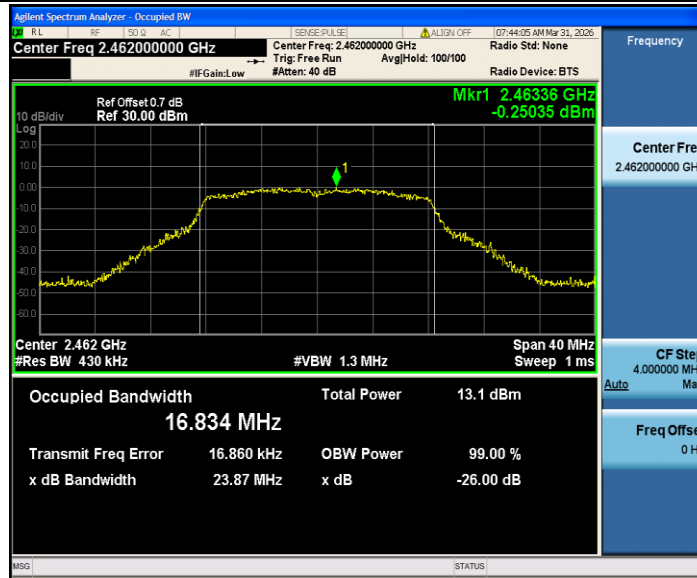
11G_Ant1_2412



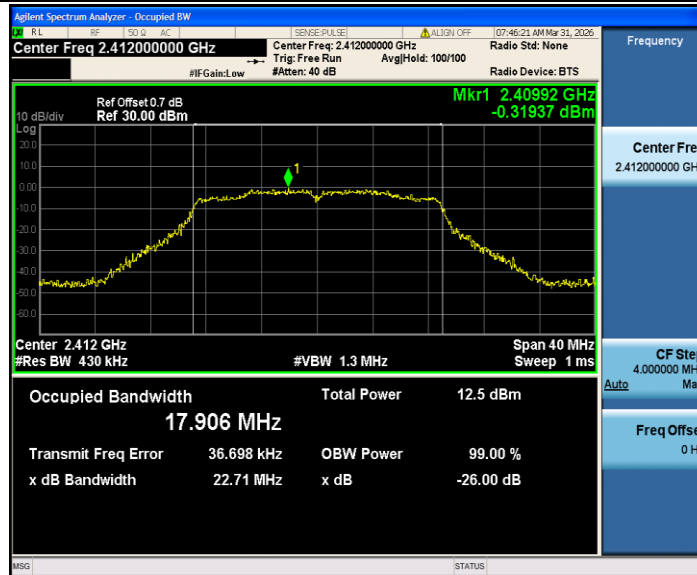
11G_Ant1_2437



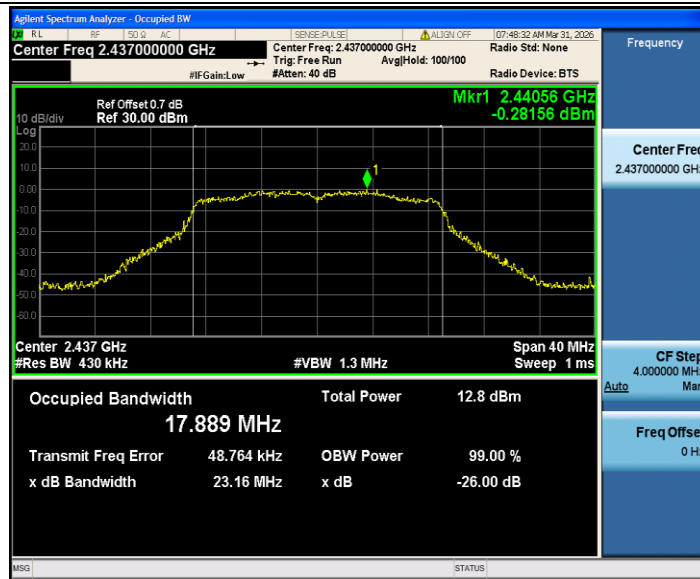
11G_Ant1_2462



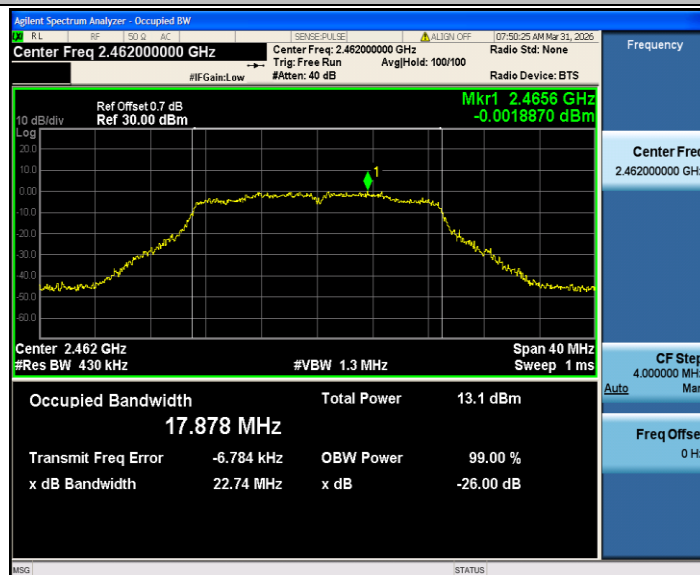
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.41	≤30.00	PASS
		2437	14.52	≤30.00	PASS
		2462	14.64	≤30.00	PASS
11G	Ant1	2412	13.75	≤30.00	PASS
		2437	13.80	≤30.00	PASS
		2462	14.07	≤30.00	PASS
11N20SISO	Ant1	2412	13.52	≤30.00	PASS
		2437	13.60	≤30.00	PASS
		2462	13.94	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.82	≤8.00	PASS
		2437	-11.74	≤8.00	PASS
		2462	-11.76	≤8.00	PASS
11G	Ant1	2412	-17.74	≤8.00	PASS
		2437	-17.84	≤8.00	PASS
		2462	-18.11	≤8.00	PASS
11N20SISO	Ant1	2412	-17.43	≤8.00	PASS
		2437	-17.67	≤8.00	PASS
		2462	-16.28	≤8.00	PASS

Test Graphs

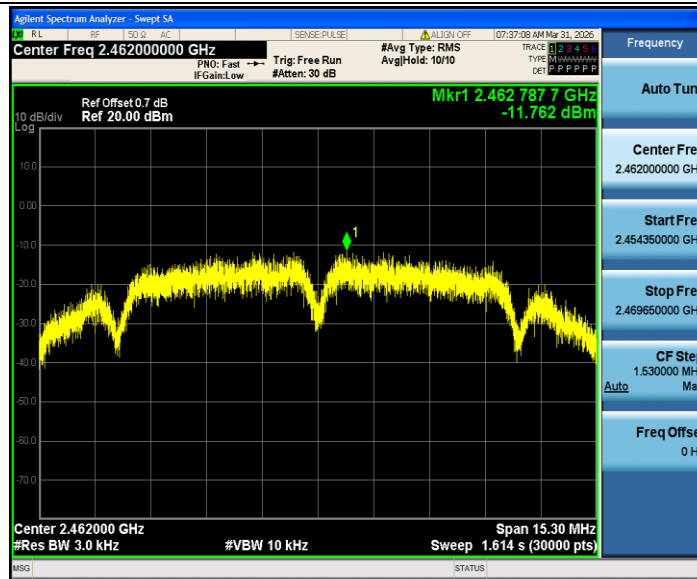
11B_Ant1_2412



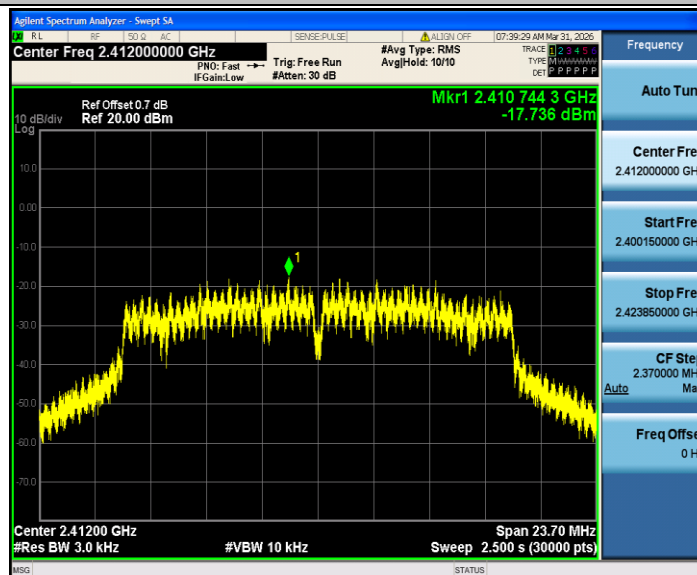
11B_Ant1_2437



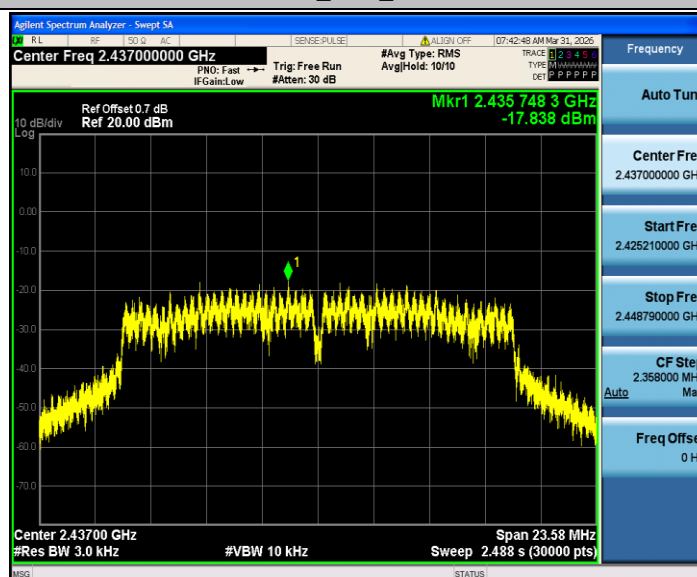
11B_Ant1_2462



11G_Ant1_2412



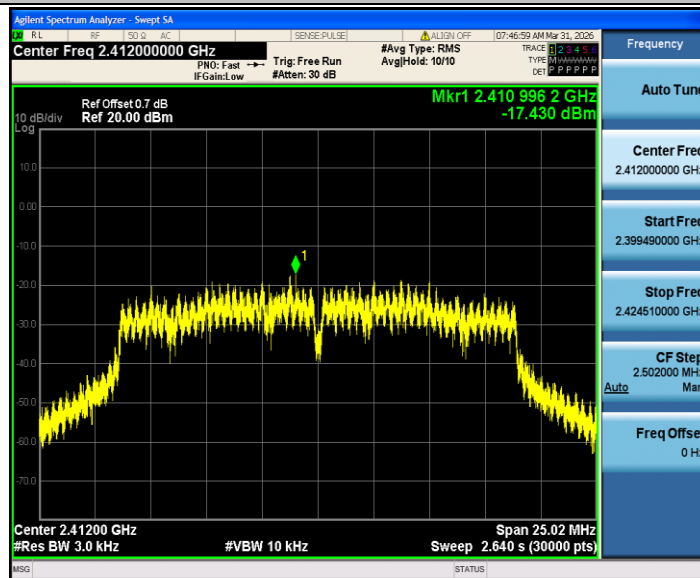
11G_Ant1_2437



11G_Ant1_2462



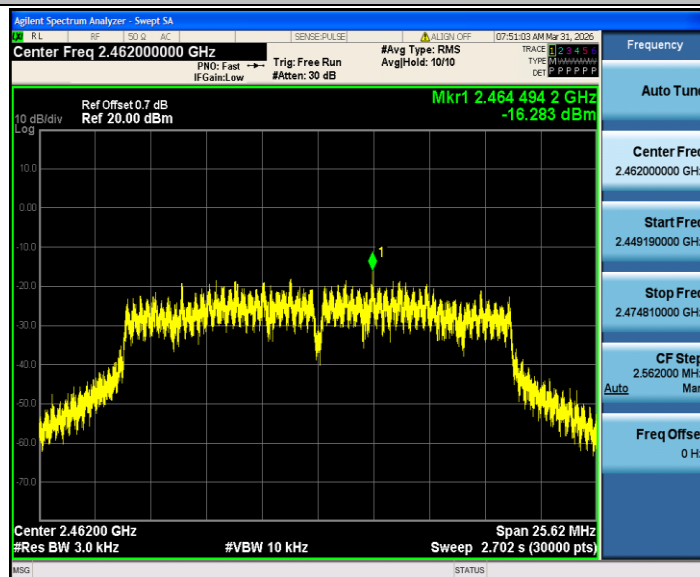
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

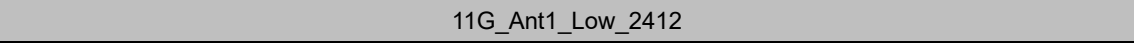
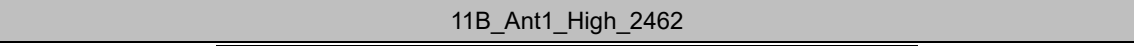


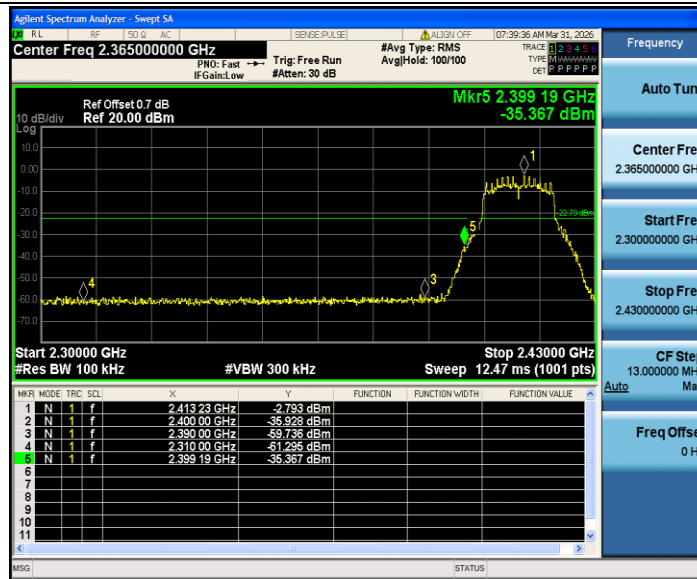
Appendix E: Band edge measurements

Test Result

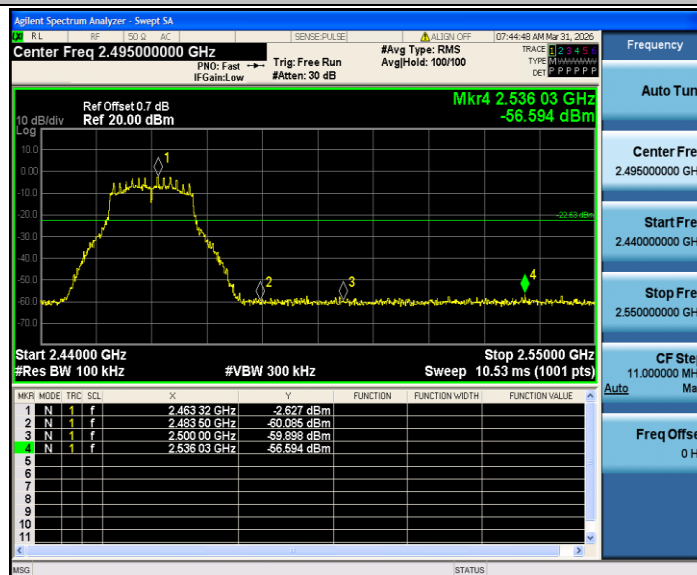
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.03	-46.79	≤-17.97	PASS
		High	2462	2.15	-54.78	≤-17.86	PASS
11G	Ant1	Low	2412	-2.79	-35.37	≤-22.79	PASS
		High	2462	-2.63	-56.59	≤-22.63	PASS
11N20SISO	Ant1	Low	2412	-2.96	-35.3	≤-22.96	PASS
		High	2462	-2.50	-57.81	≤-22.5	PASS

11B_Ant1_Low_2412

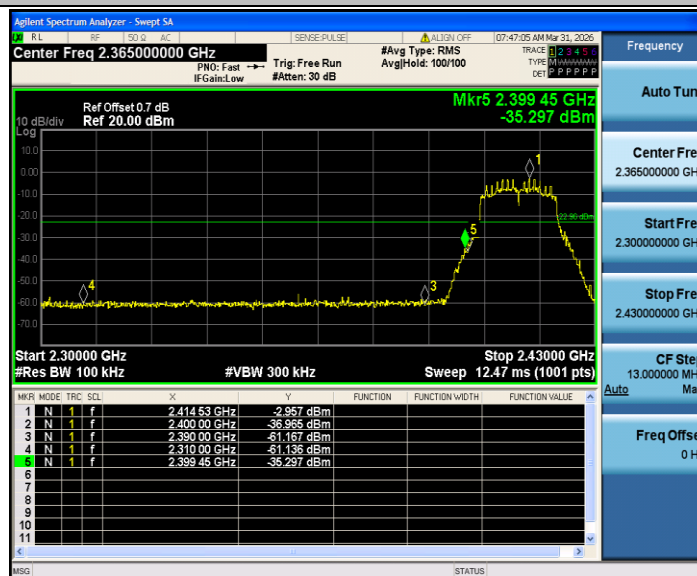




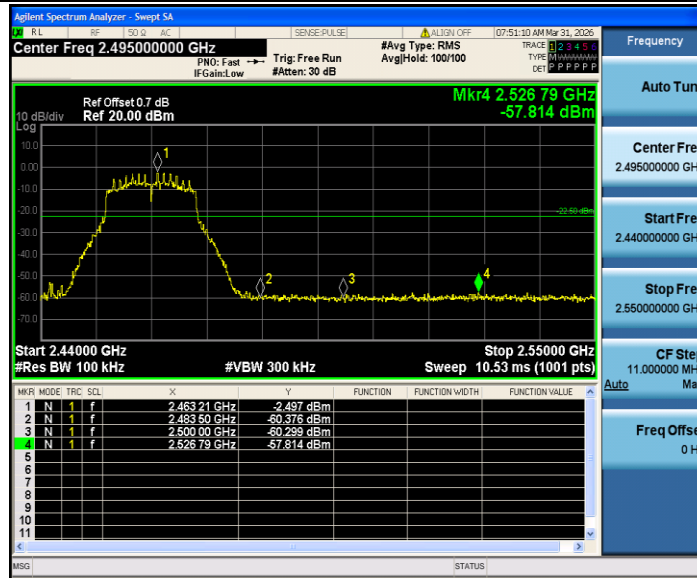
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

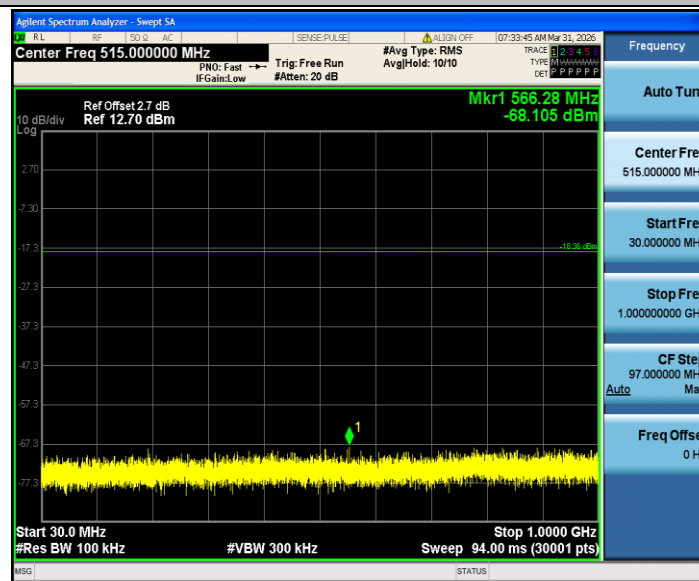
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.64	1.64	---	PASS
			30~1000	1.64	-68.11	≤-18.36	PASS
			1000~26500	1.64	-55.34	≤-18.36	PASS
		2437	Reference	1.98	1.98	---	PASS
			30~1000	1.98	-66.79	≤-18.02	PASS
			1000~26500	1.98	-54.69	≤-18.02	PASS
		2462	Reference	2.09	2.09	---	PASS
			30~1000	2.09	-67.46	≤-17.91	PASS
			1000~26500	2.09	-55.05	≤-17.91	PASS
11G	Ant1	2412	Reference	-3.90	-3.90	---	PASS
			30~1000	-3.90	-68.32	≤-23.9	PASS
			1000~26500	-3.90	-55.18	≤-23.9	PASS
		2437	Reference	-3.06	-3.06	---	PASS
			30~1000	-3.06	-67.35	≤-23.06	PASS
			1000~26500	-3.06	-55.13	≤-23.06	PASS
		2462	Reference	-3.02	-3.02	---	PASS
			30~1000	-3.02	-66.25	≤-23.02	PASS
			1000~26500	-3.02	-55.25	≤-23.02	PASS
11N20SISO	Ant1	2412	Reference	-3.79	-3.79	---	PASS
			30~1000	-3.79	-67.58	≤-23.79	PASS
			1000~26500	-3.79	-55.03	≤-23.79	PASS
		2437	Reference	-3.38	-3.38	---	PASS
			30~1000	-3.38	-67.43	≤-23.38	PASS
			1000~26500	-3.38	-55.51	≤-23.38	PASS
		2462	Reference	-3.02	-3.02	---	PASS
			30~1000	-3.02	-67.06	≤-23.02	PASS
			1000~26500	-3.02	-54.87	≤-23.02	PASS

Test Graphs

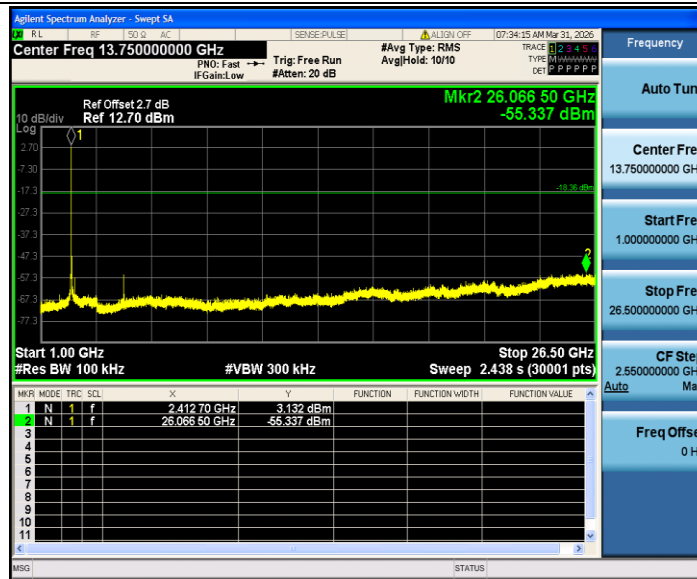
11B_Ant1_2412_0~Reference



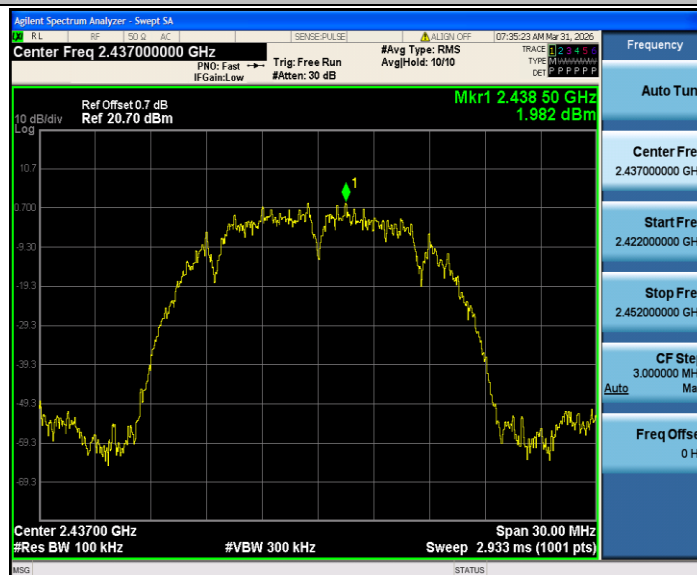
11B_Ant1_2412_30~1000



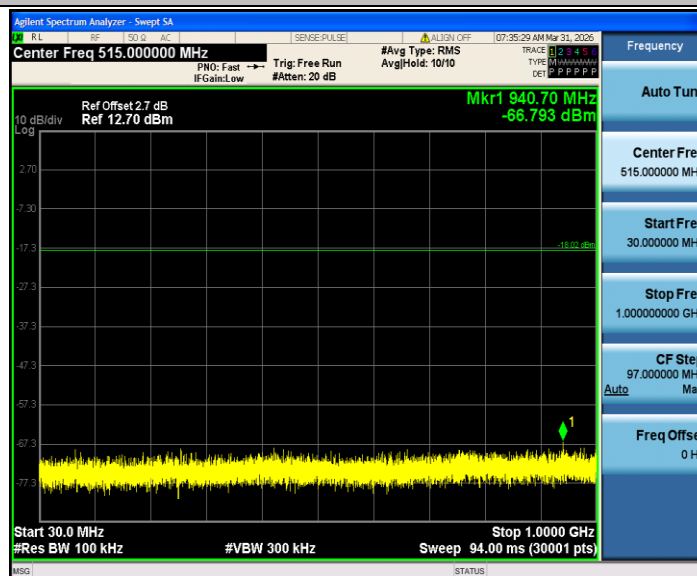
11B_Ant1_2412_1000~26500



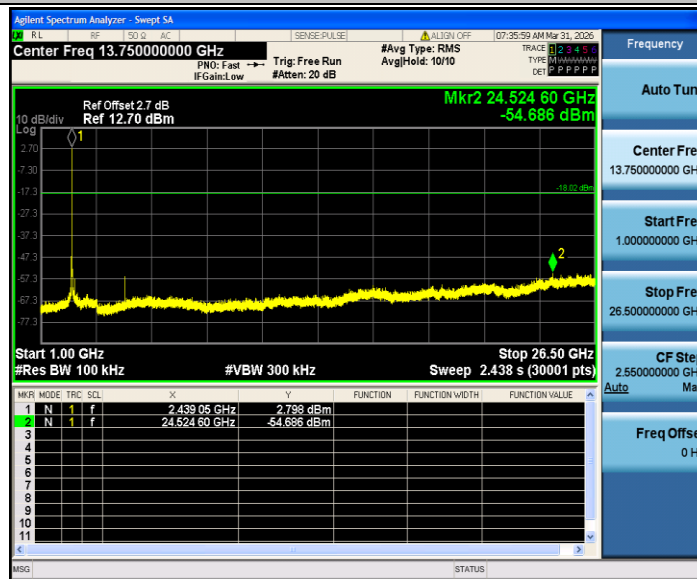
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



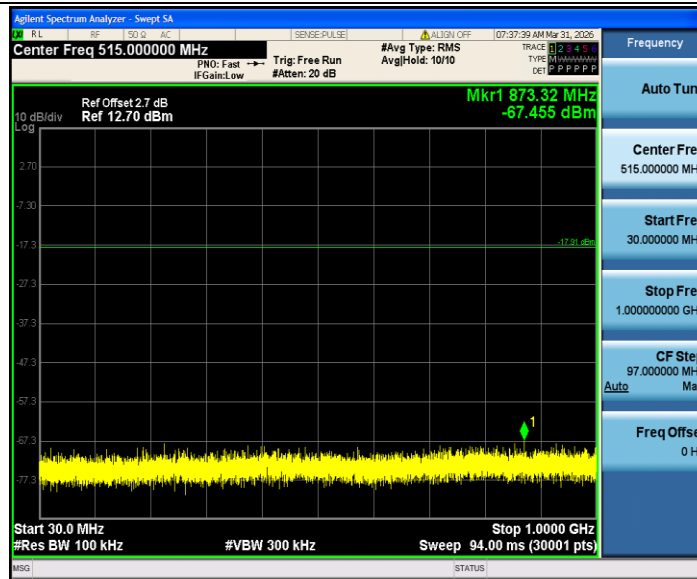
11B_Ant1_2437_1000~26500



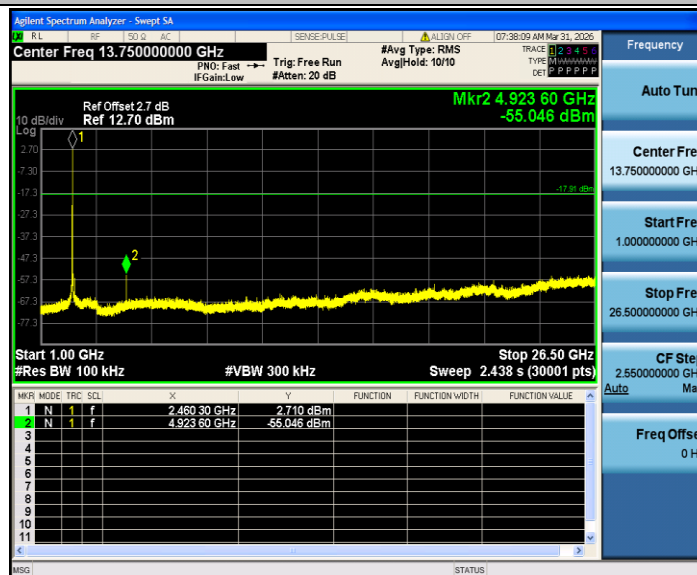
11B_Ant1_2462_0~Reference



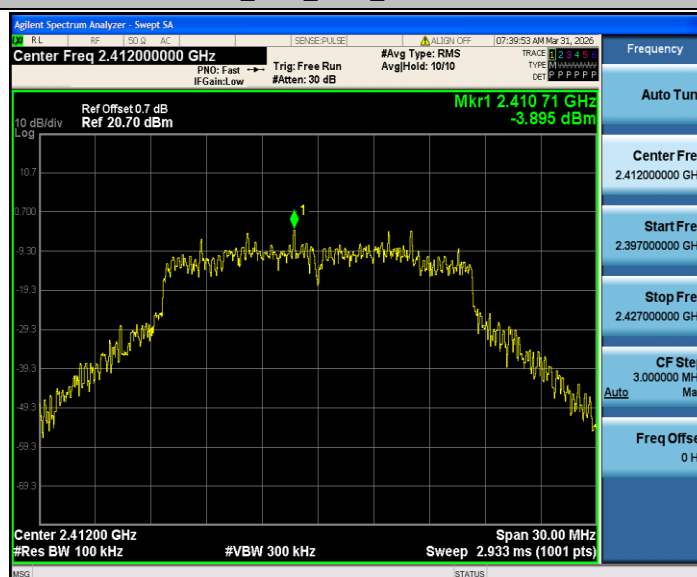
11B_Ant1_2462_30~1000



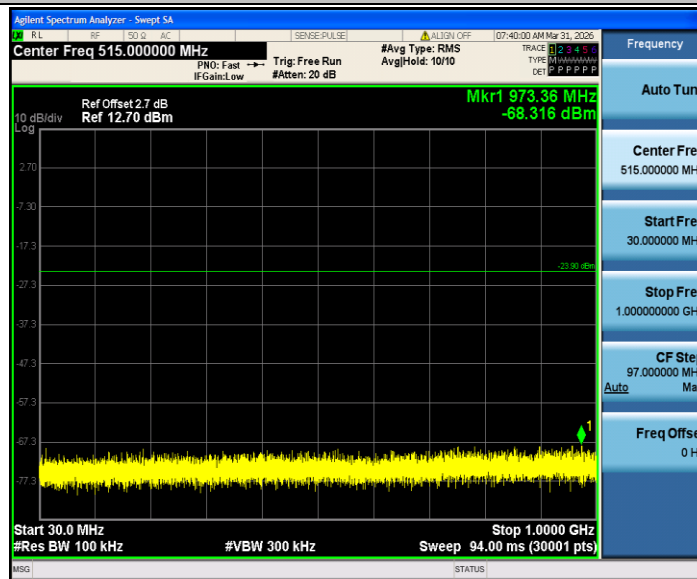
11B_Ant1_2462_1000~26500



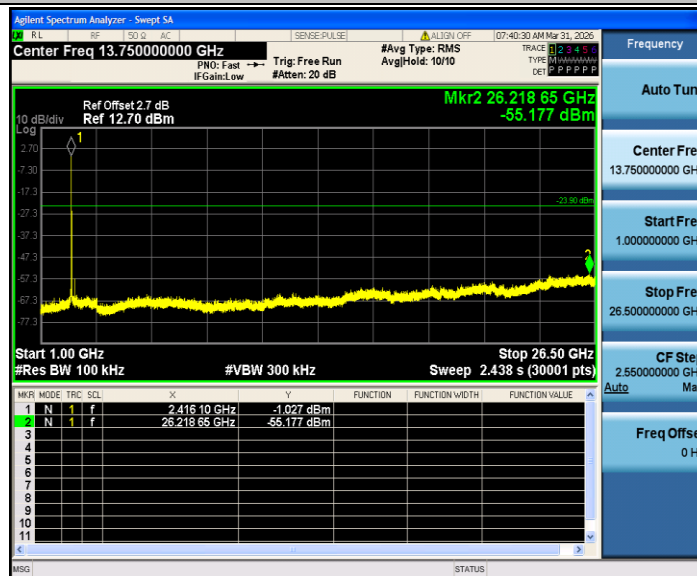
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



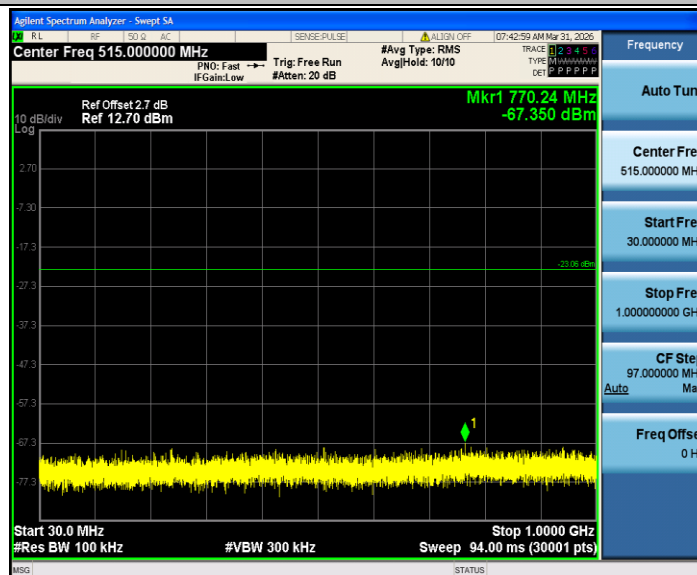
11G_Ant1_2412_1000~26500



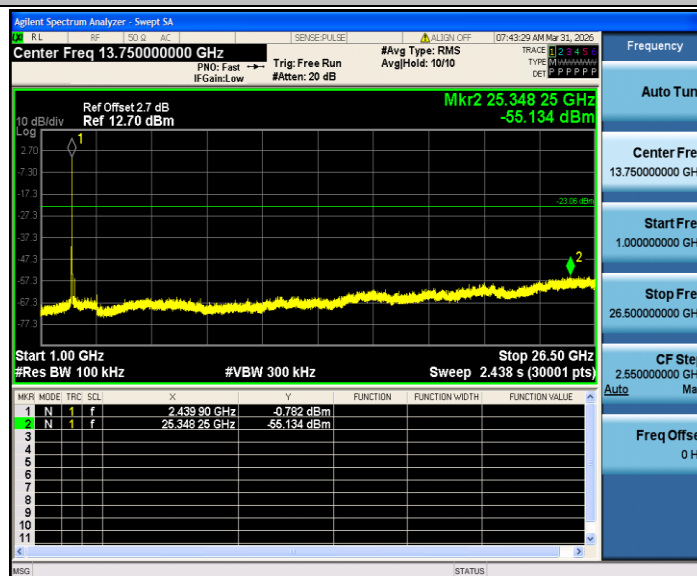
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



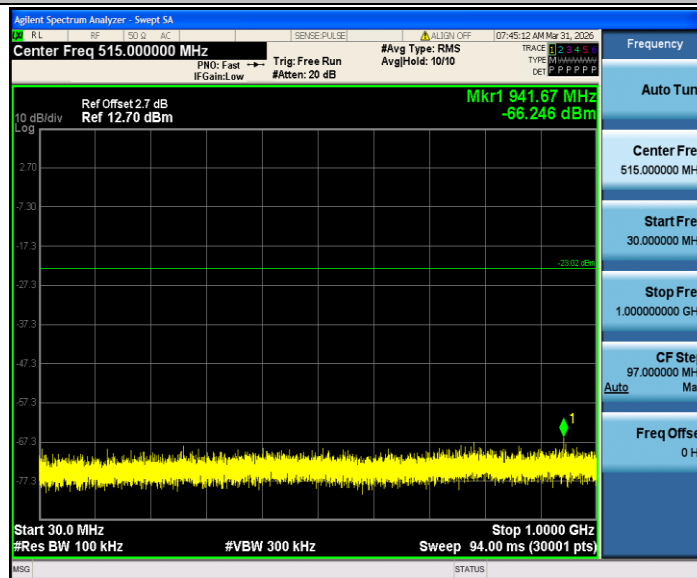
11G_Ant1_2437_1000~26500



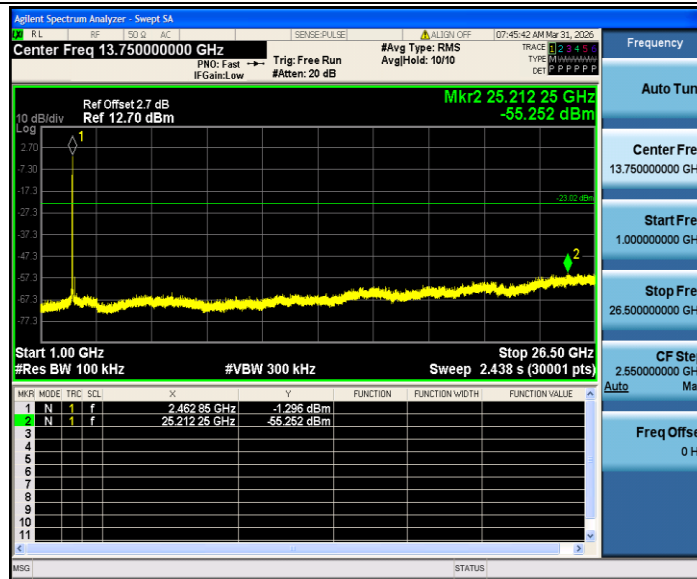
11G_Ant1_2462_0~Reference



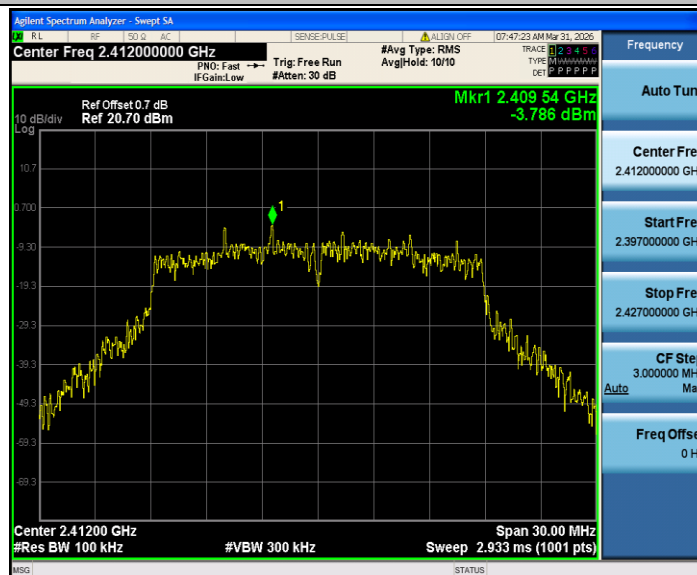
11G_Ant1_2462_30~1000



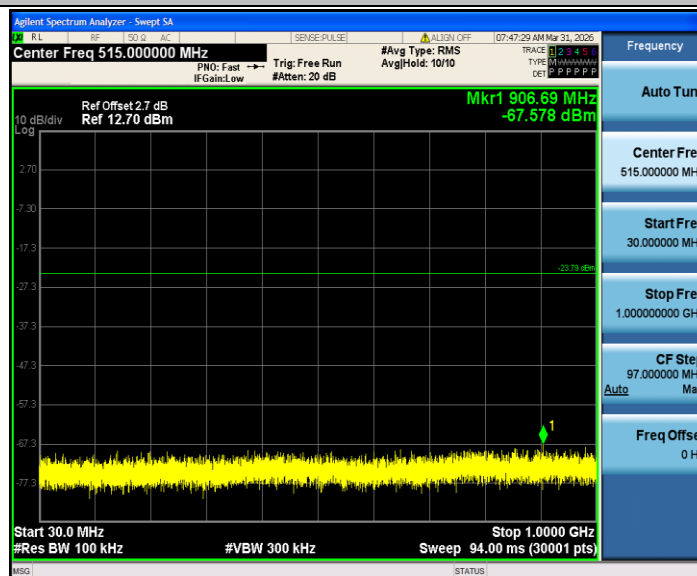
11G_Ant1_2462_1000~26500



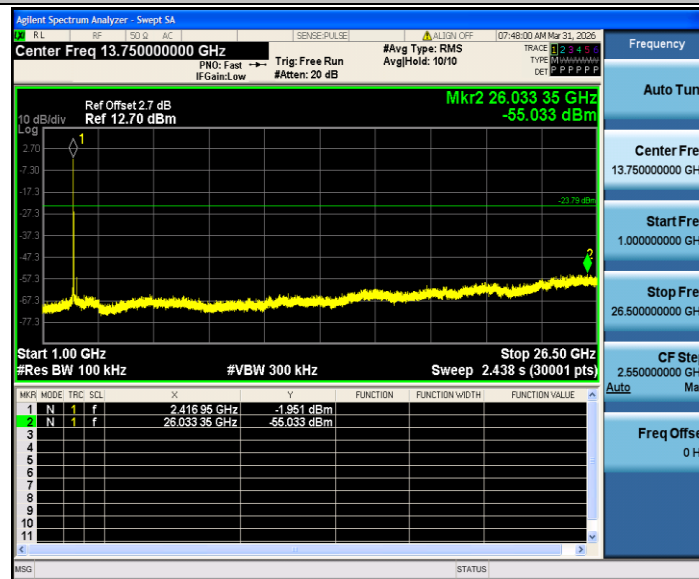
11N20SISO_Ant1_2412_0~Reference



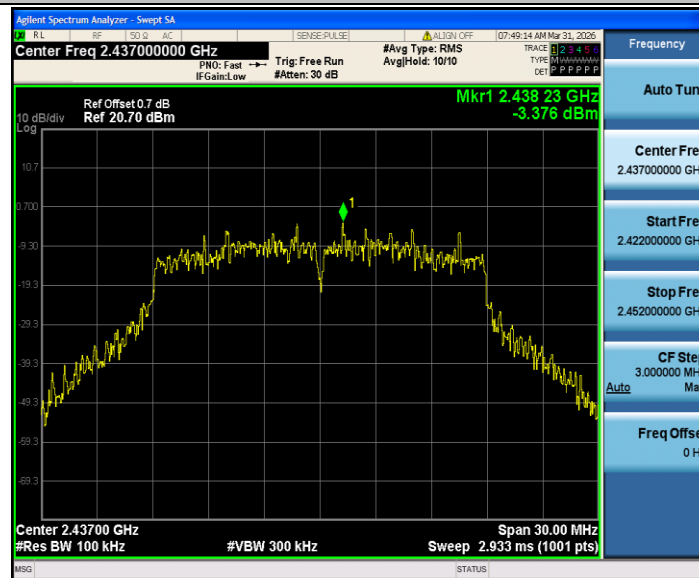
11N20SISO_Ant1_2412_30~1000



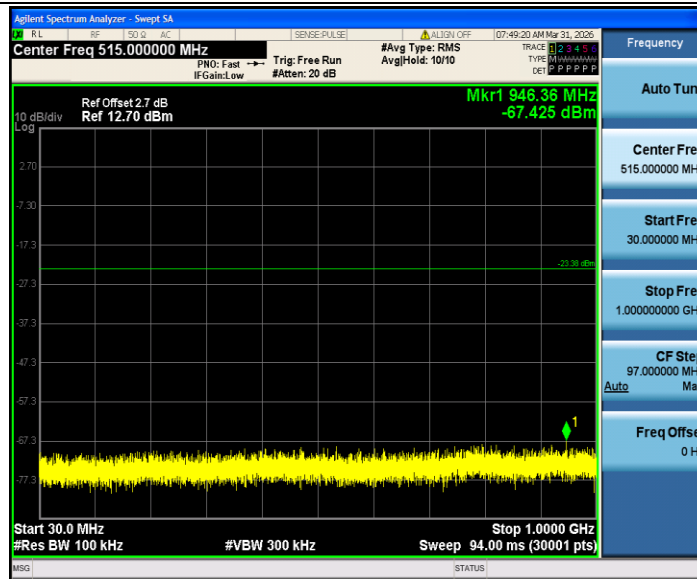
11N20SISO_Ant1_2412_1000~26500



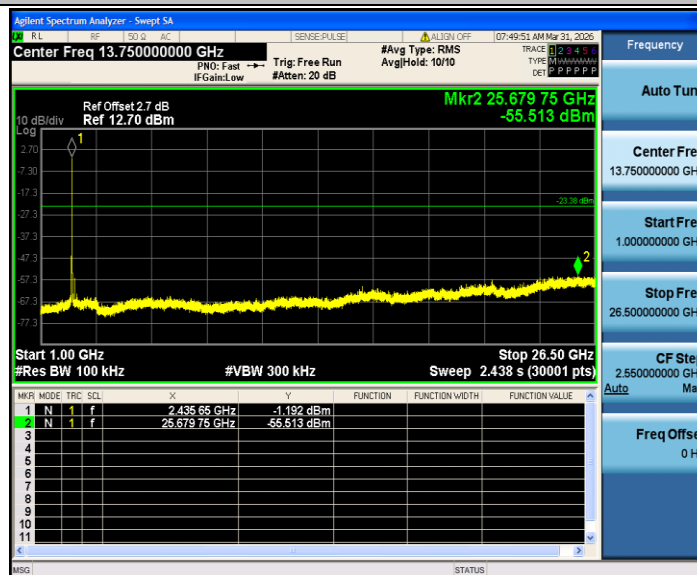
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



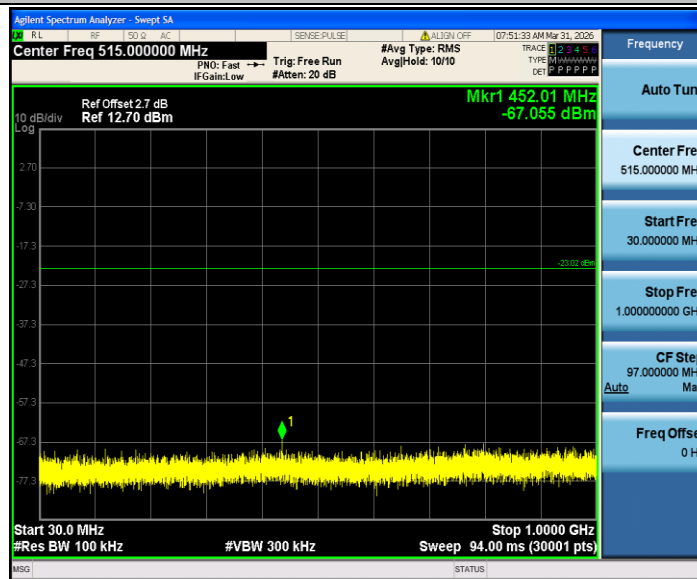
11N20SISO_Ant1_2437_1000~26500



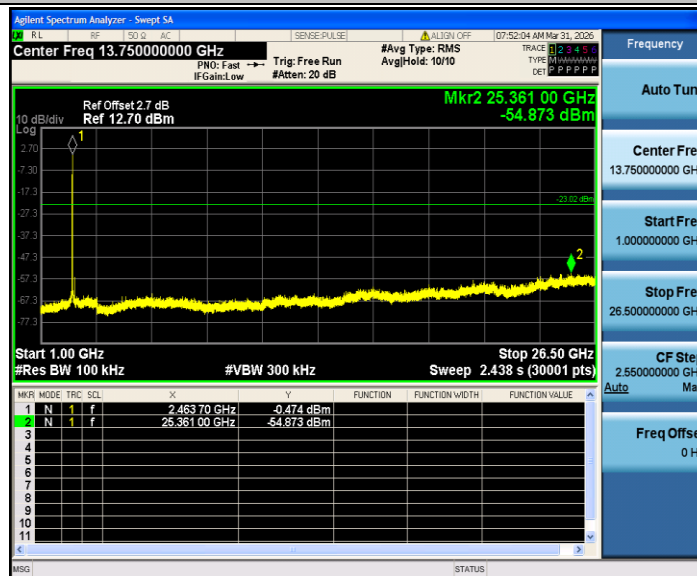
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



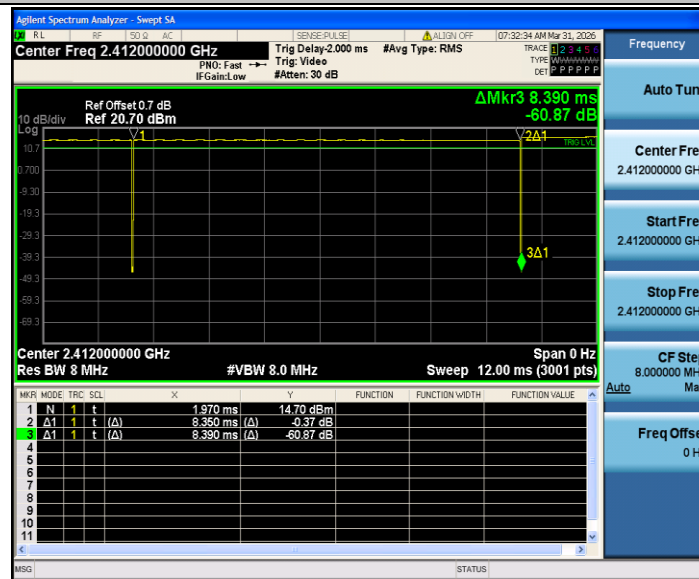
Appendix G: Duty Cycle

Test Result

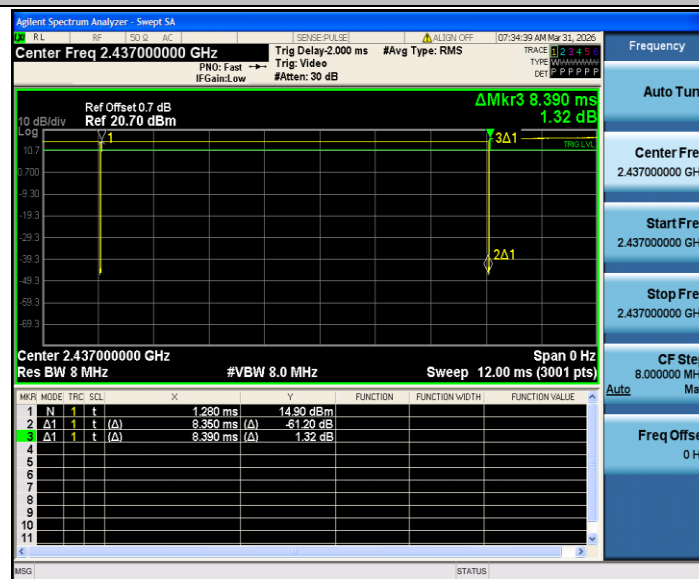
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	T Factor [dB]
11B	Ant1	2412	8.35	8.39	99.52	0.02	0.12
		2437	8.35	8.39	99.52	0.02	0.12
		2462	8.36	8.40	99.52	0.02	0.12
11G	Ant1	2412	0.15	0.19	78.95	1.03	6.67
		2437	0.15	0.19	78.95	1.03	6.67
		2462	0.15	0.20	75.00	1.25	6.67
11N20SISO	Ant1	2412	0.18	0.23	78.26	1.06	5.56
		2437	0.17	0.22	77.27	1.12	5.88
		2462	0.17	0.22	77.27	1.12	5.88

Test Graphs

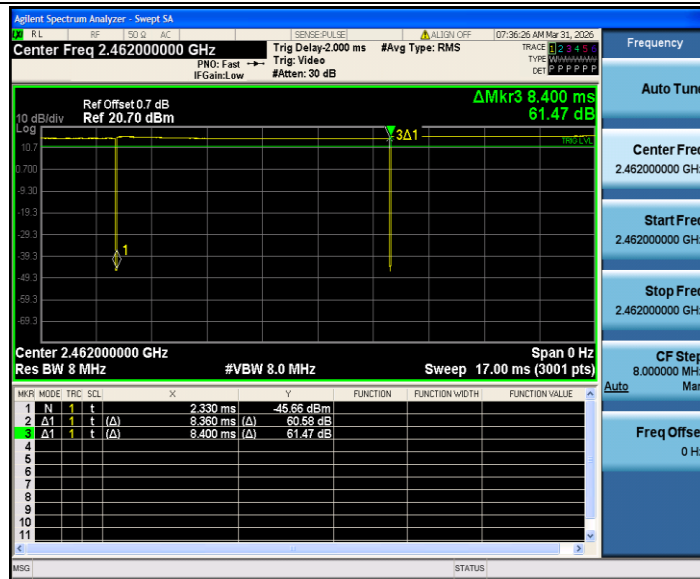
11B_Ant1_2412



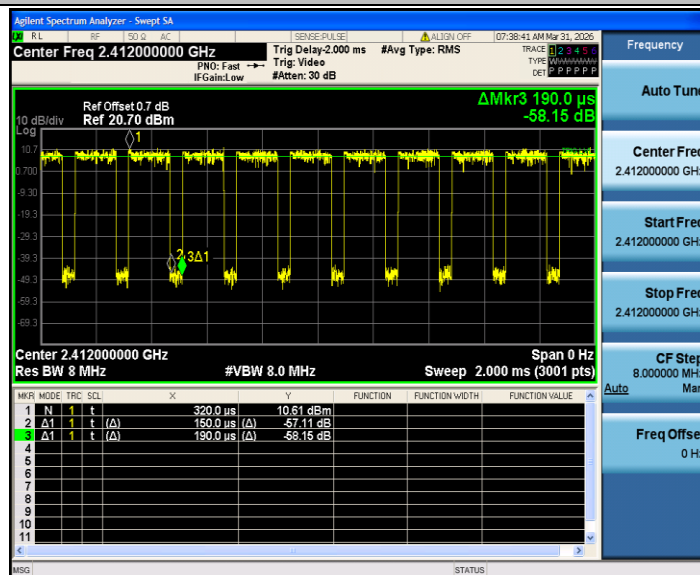
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437

