

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BU3J-KY-70

Company : Sichuan Lijunk Network Technology Co., Ltd.

EUT : VIDEO WALKIE-TALKIE

Model Number : KY-70

Report No. : CTA26030201901

Reviewed By : Eric Wang

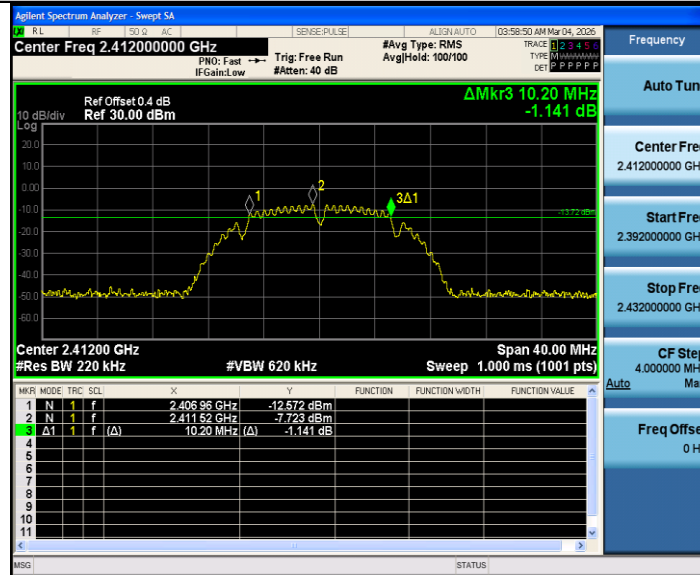
Appendix A: DTS Bandwidth

Test Result

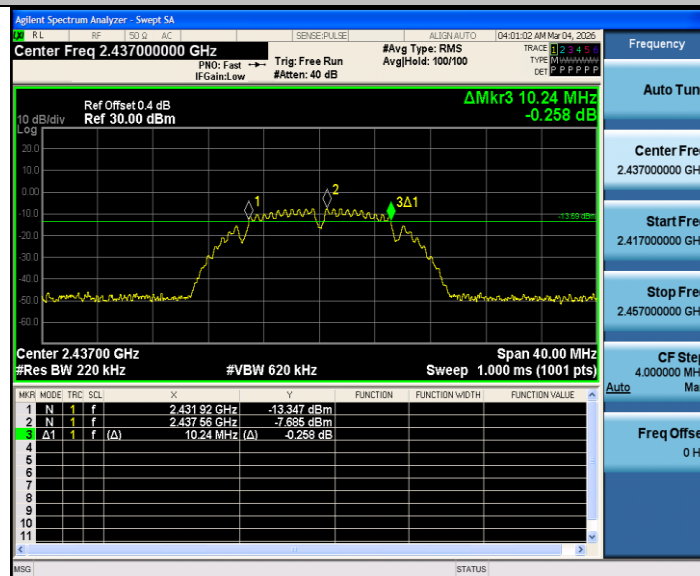
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.960	2417.160	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	16.040	2404.040	2420.080	0.5	PASS
		2437	16.040	2429.080	2445.120	0.5	PASS
		2462	15.680	2454.040	2469.720	0.5	PASS
11N20SISO	Ant1	2412	16.840	2403.520	2420.360	0.5	PASS
		2437	16.840	2428.480	2445.320	0.5	PASS
		2462	15.640	2454.120	2469.760	0.5	PASS

Test Graphs

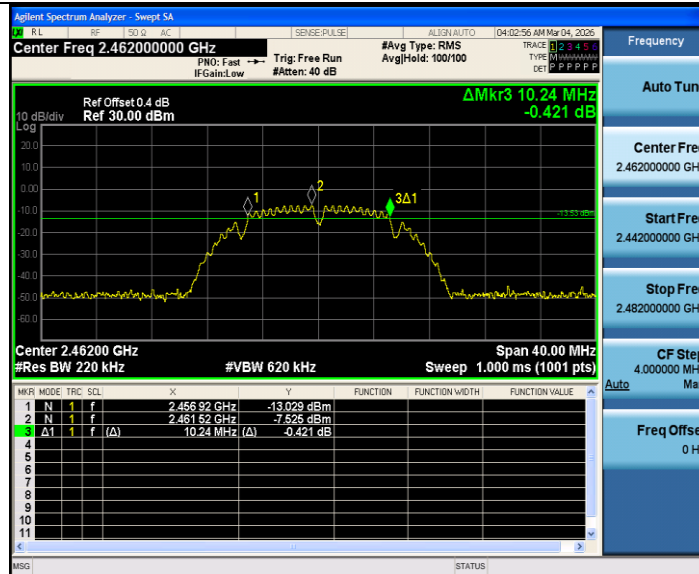
11B_Ant1_2412



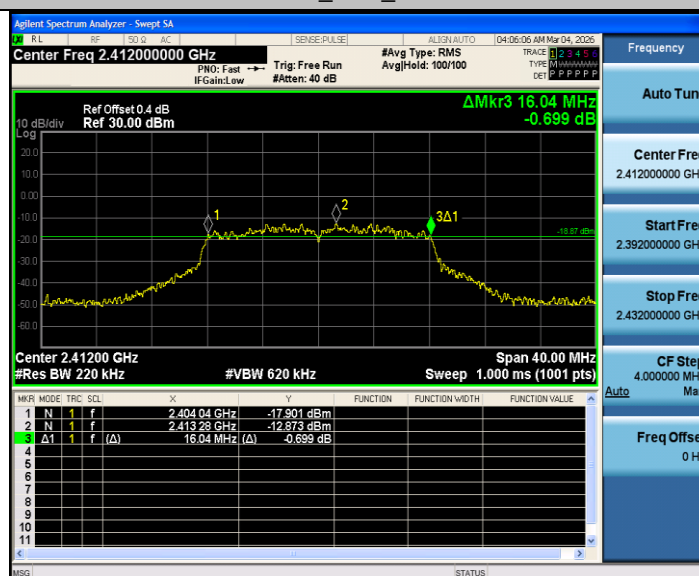
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



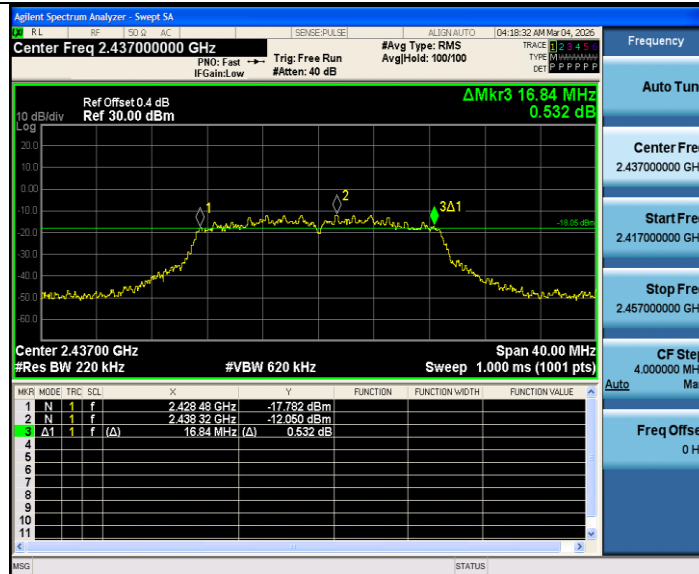
11G_Ant1_2462



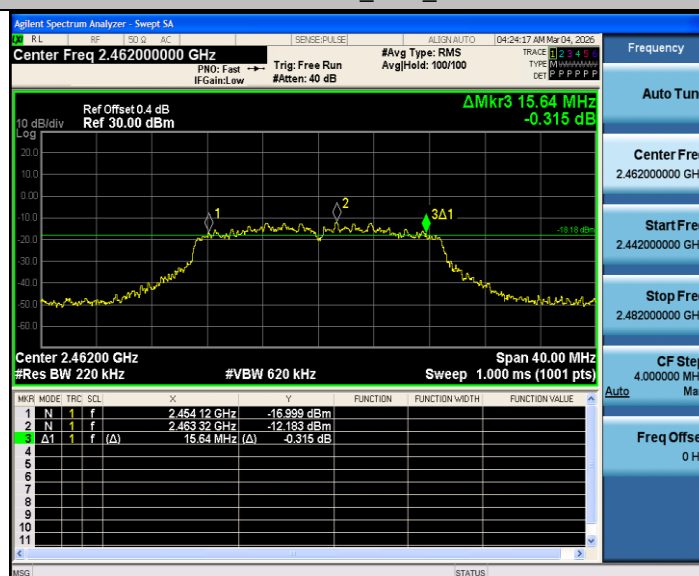
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



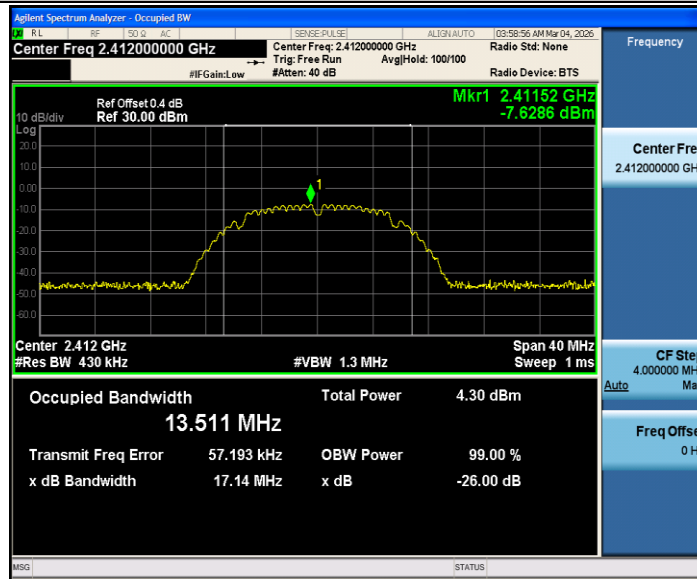
Appendix B: Occupied Channel Bandwidth

Test Result

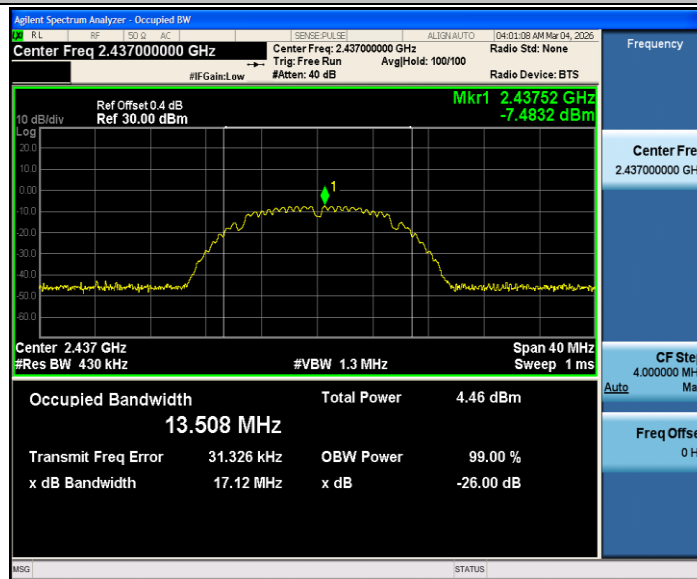
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.511	2405.3017	2418.8127	---	---
		2437	13.508	2430.2773	2443.7853	---	---
		2462	13.524	2455.2545	2468.7785	---	---
11G	Ant1	2412	16.830	2403.6368	2420.4668	---	---
		2437	16.983	2428.5866	2445.5696	---	---
		2462	16.895	2453.5902	2470.4852	---	---
11N20SISO	Ant1	2412	17.996	2403.0601	2421.0561	---	---
		2437	17.904	2428.1016	2446.0056	---	---
		2462	17.993	2453.0186	2471.0116	---	---

Test Graphs

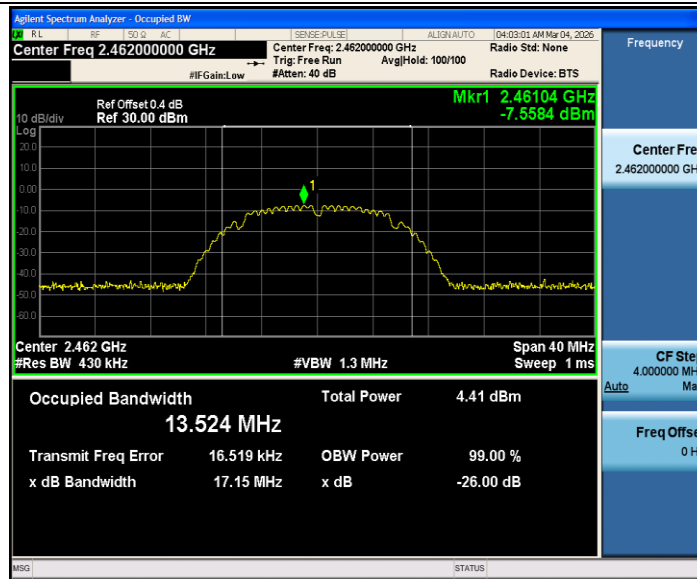
11B_Ant1_2412



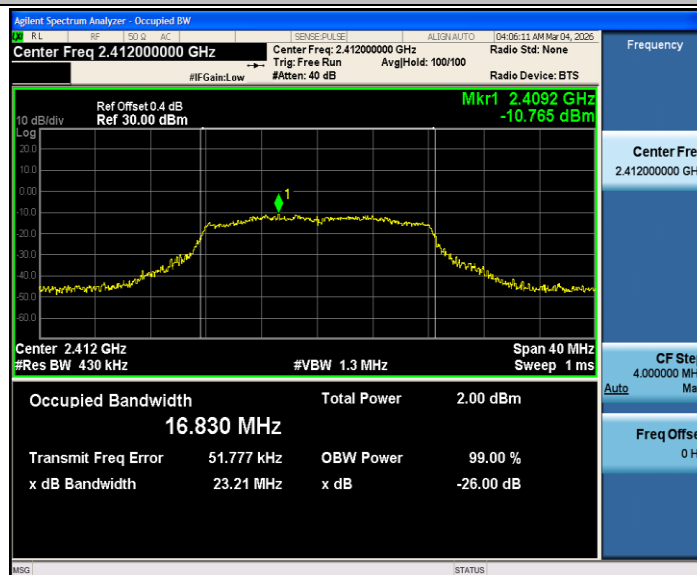
11B_Ant1_2437



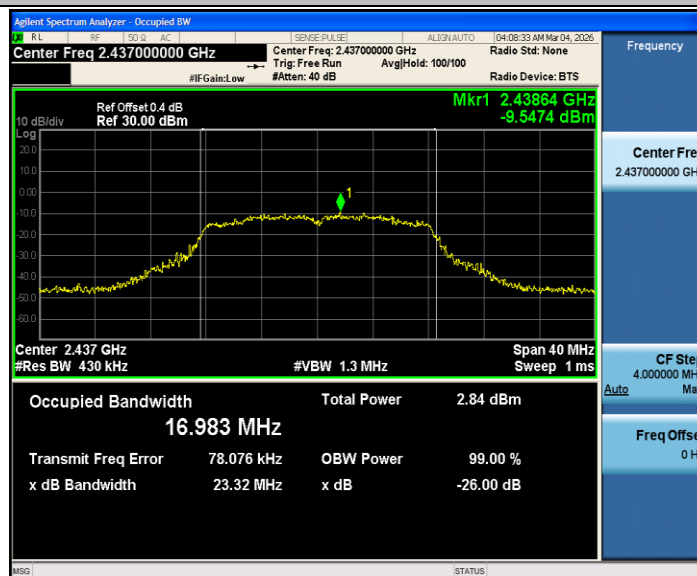
11B_Ant1_2462



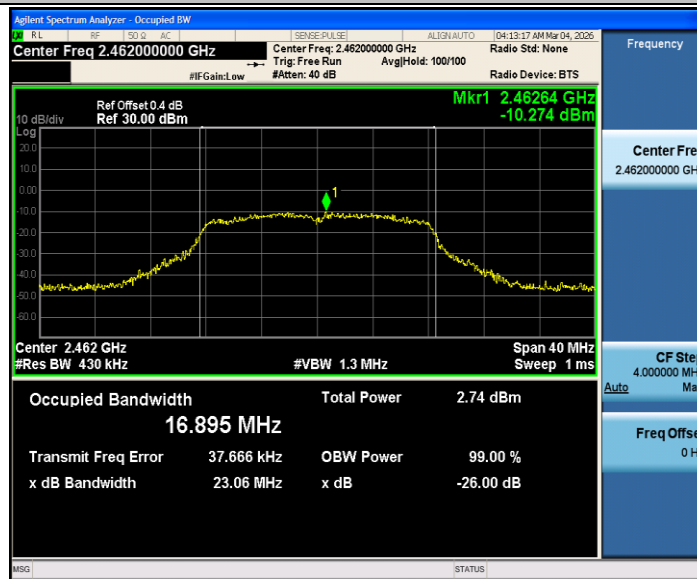
11G_Ant1_2412



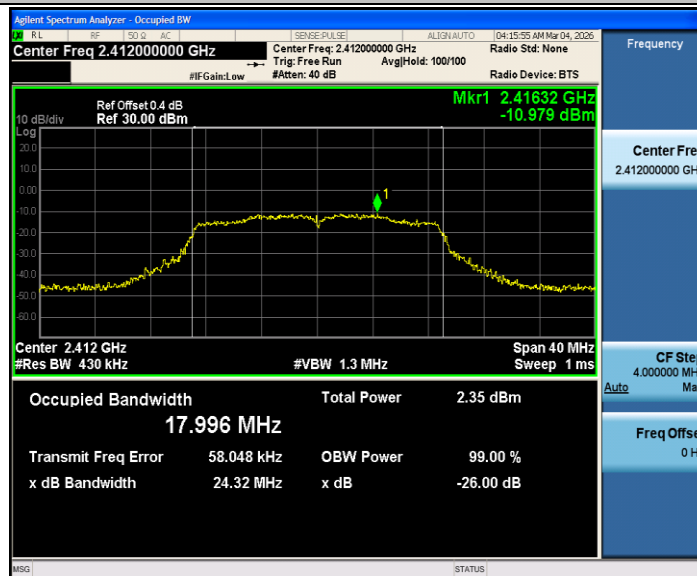
11G_Ant1_2437



11G_Ant1_2462



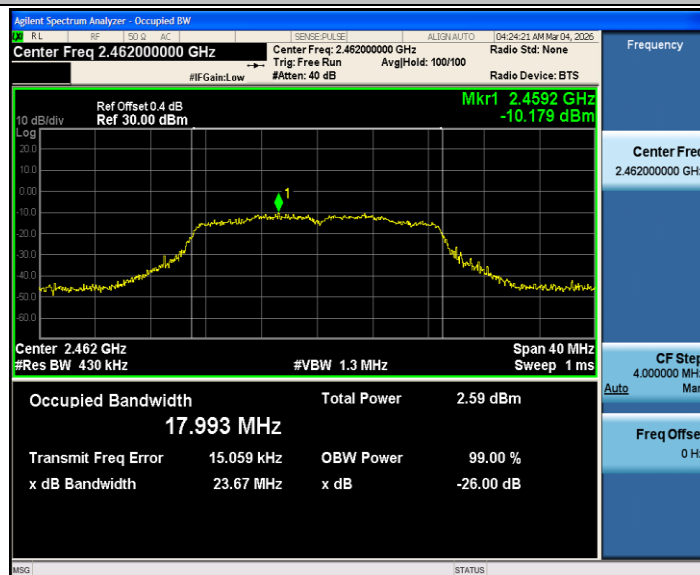
11N20SISO_Ant1_2412



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	3.88	≤30.00	PASS
		2437	4.24	≤30.00	PASS
		2462	4.26	≤30.00	PASS
11G	Ant1	2412	2.99	≤30.00	PASS
		2437	3.78	≤30.00	PASS
		2462	3.55	≤30.00	PASS
11N20SISO	Ant1	2412	3.29	≤30.00	PASS
		2437	3.62	≤30.00	PASS
		2462	3.25	≤30.00	PASS

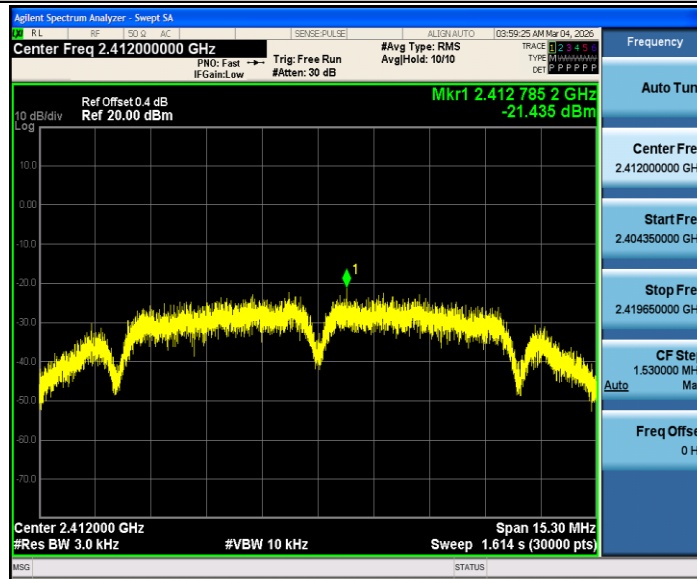
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-21.44	≤8.00	PASS
		2437	-21.66	≤8.00	PASS
		2462	-21.78	≤8.00	PASS
11G	Ant1	2412	-29.74	≤8.00	PASS
		2437	-27.18	≤8.00	PASS
		2462	-28.18	≤8.00	PASS
11N20SISO	Ant1	2412	-28.33	≤8.00	PASS
		2437	-27.28	≤8.00	PASS
		2462	-27.50	≤8.00	PASS

Test Graphs

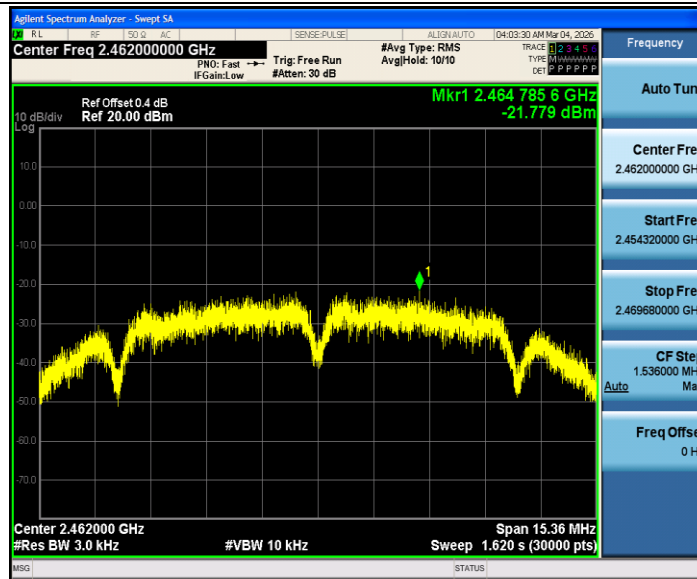
11B_Ant1_2412



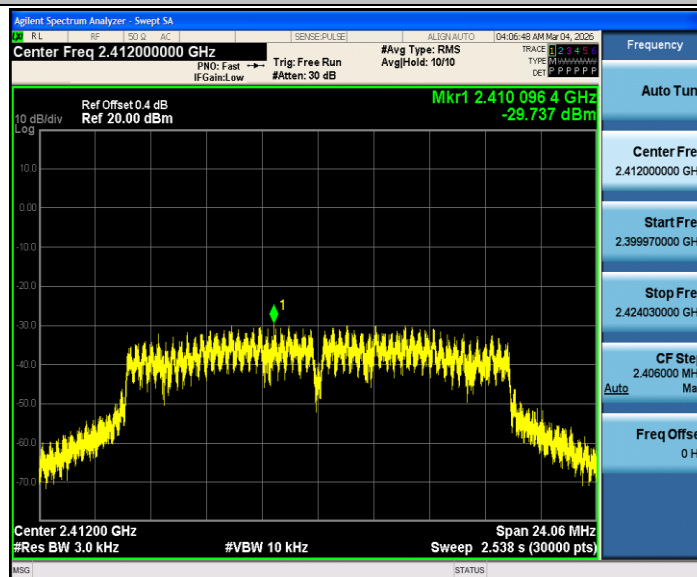
11B_Ant1_2437



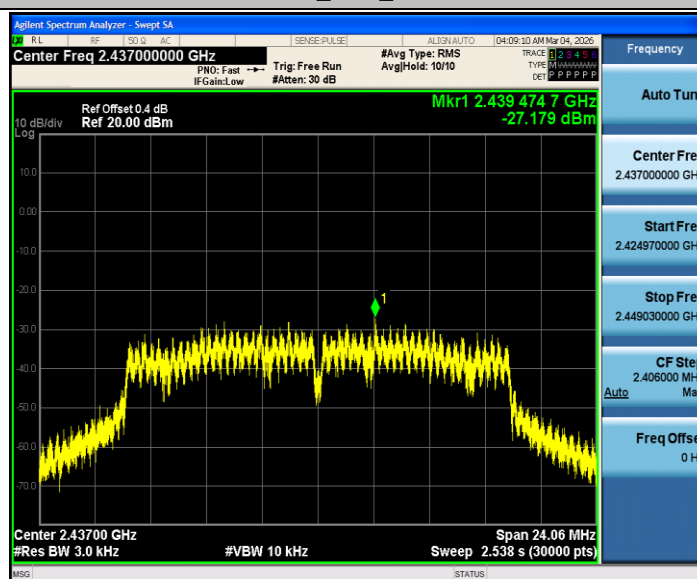
11B_Ant1_2462



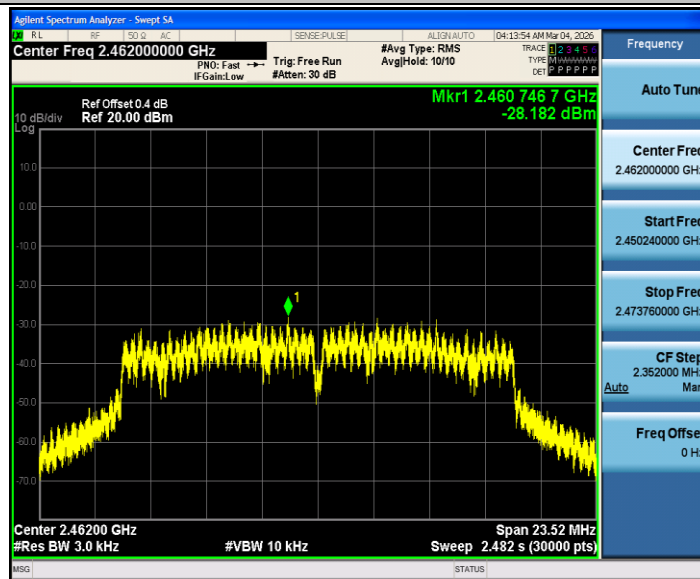
11G_Ant1_2412



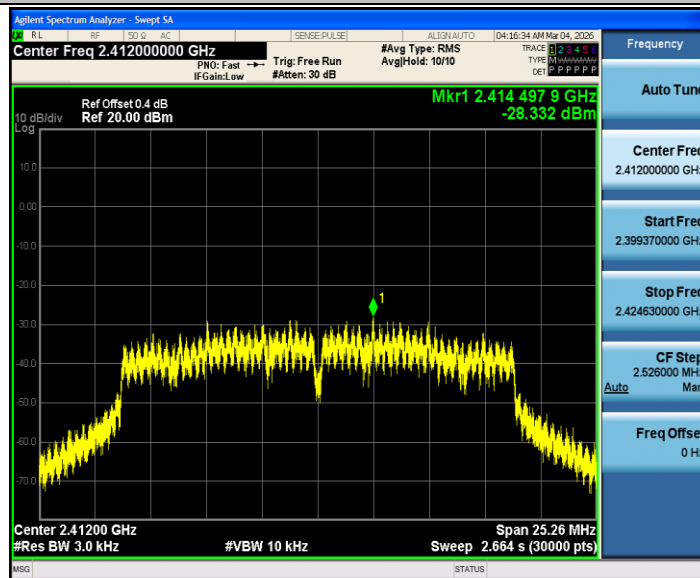
11G_Ant1_2437



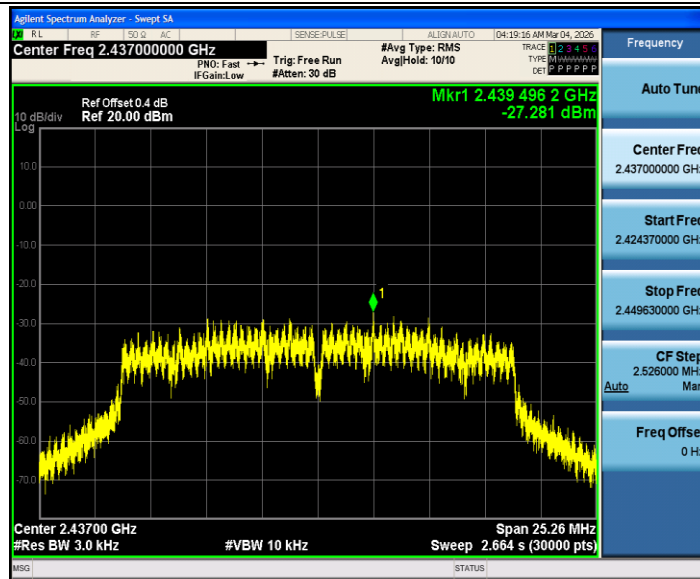
11G_Ant1_2462



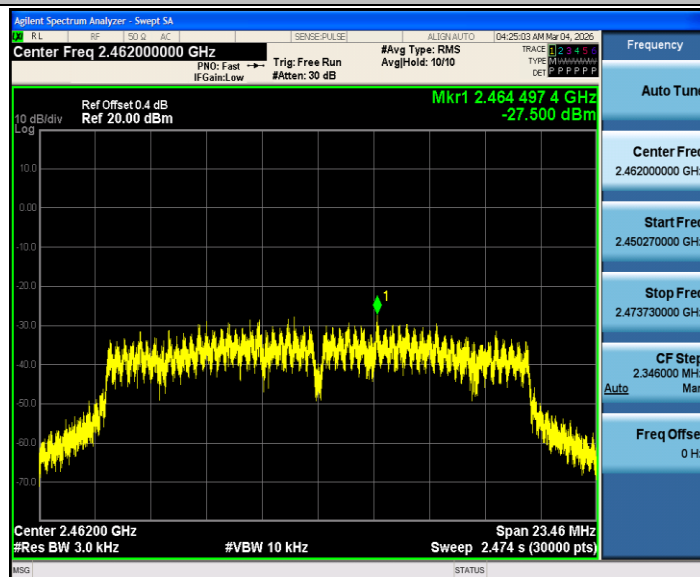
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



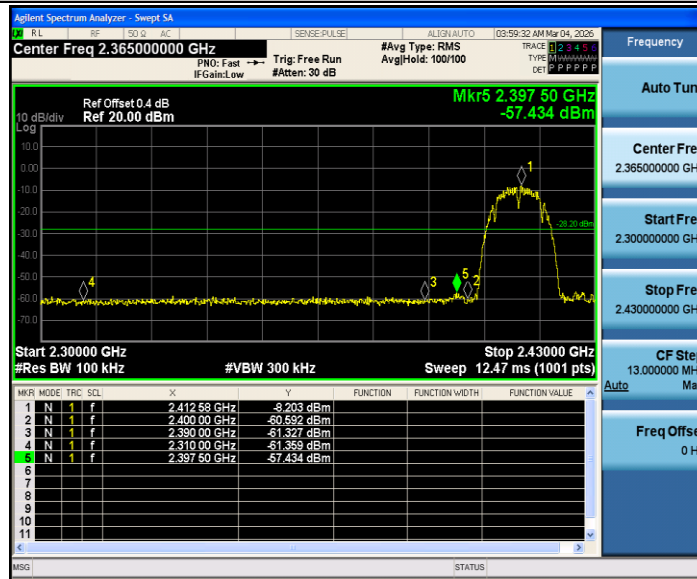
Appendix E: Band edge measurements

Test Result

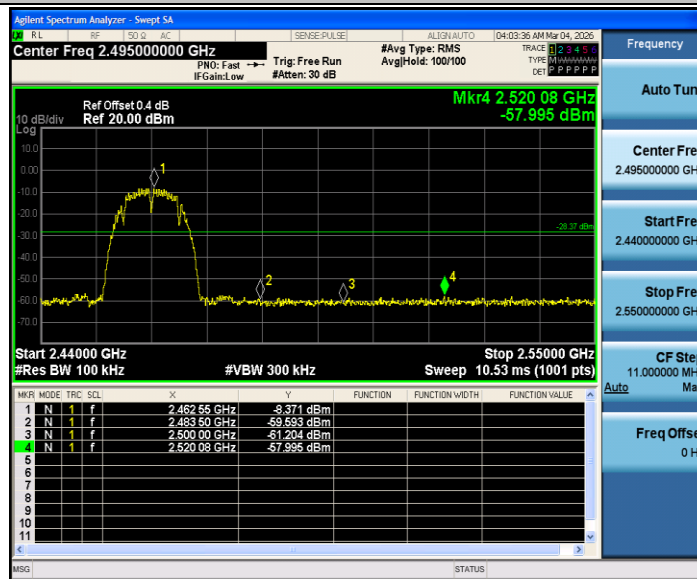
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-8.20	-57.43	≤-28.2	PASS
		High	2462	-8.37	-58	≤-28.37	PASS
11G	Ant1	Low	2412	-13.47	-46.2	≤-33.47	PASS
		High	2462	-12.97	-58.45	≤-32.97	PASS
11N20SISO	Ant1	Low	2412	-13.36	-43.44	≤-33.36	PASS
		High	2462	-12.96	-57.83	≤-32.96	PASS

Test Graphs

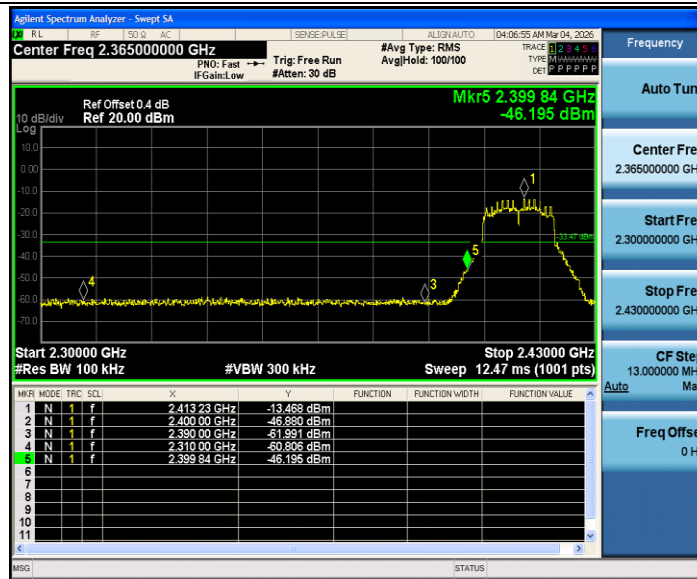
11B_Ant1_Low_2412



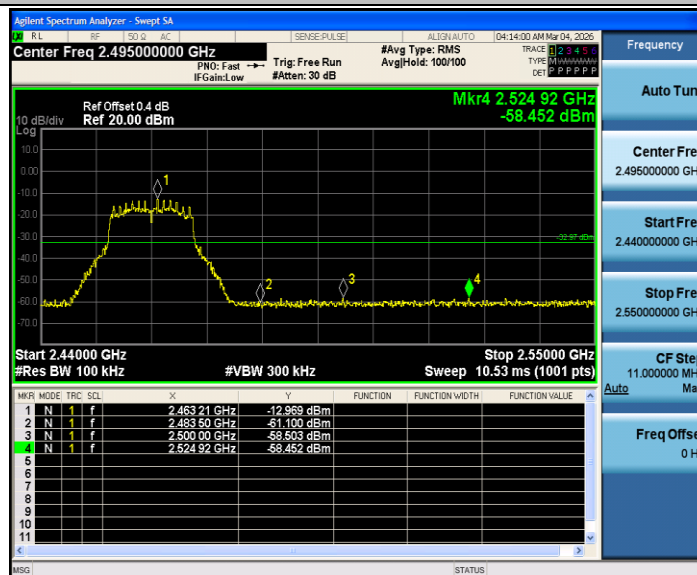
11B_Ant1_High_2462



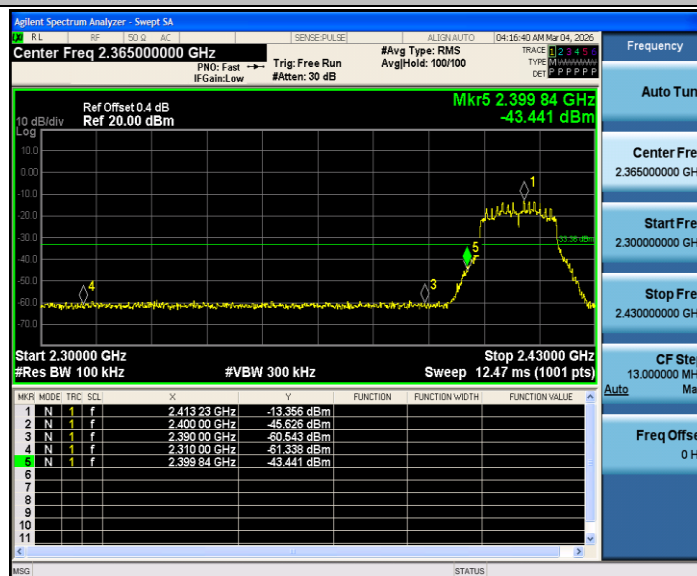
11G_Ant1_Low_2412



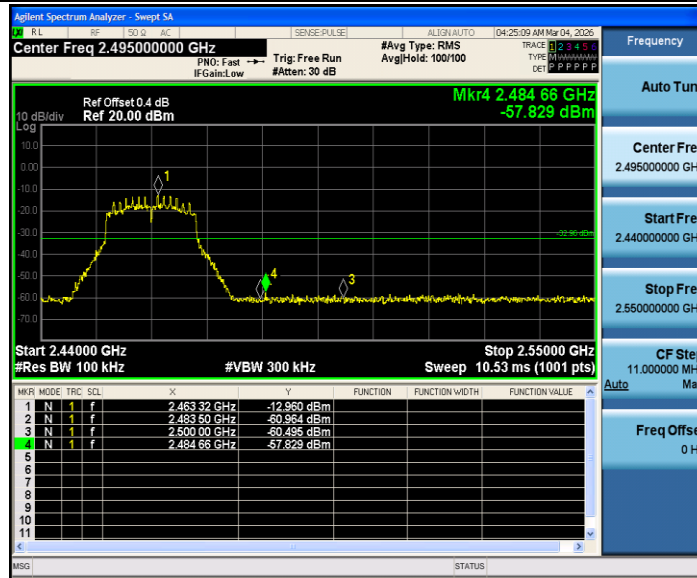
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

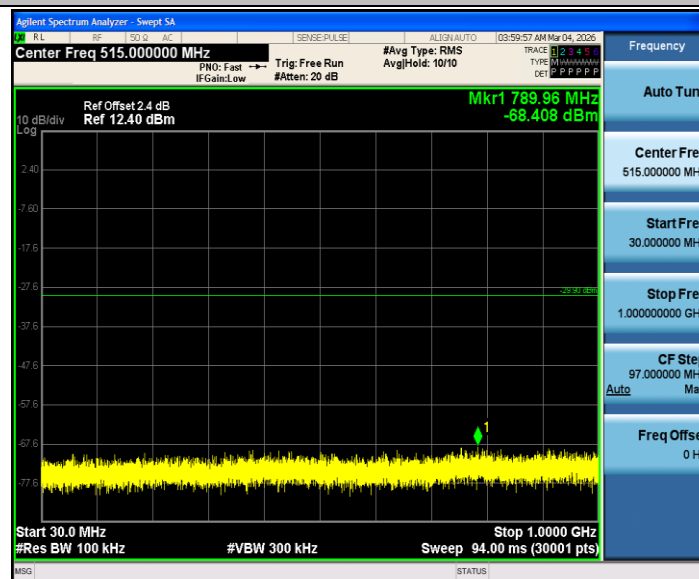
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-9.90	-9.90	---	PASS
			30~1000	-9.90	-68.41	≤-29.9	PASS
			1000~26500	-9.90	-55.34	≤-29.9	PASS
		2437	Reference	-8.74	-8.74	---	PASS
			30~1000	-8.74	-68.34	≤-28.74	PASS
			1000~26500	-8.74	-54.85	≤-28.74	PASS
		2462	Reference	-8.37	-8.37	---	PASS
			30~1000	-8.37	-68.15	≤-28.37	PASS
			1000~26500	-8.37	-54.98	≤-28.37	PASS
11G	Ant1	2412	Reference	-14.34	-14.34	---	PASS
			30~1000	-14.34	-68.36	≤-34.34	PASS
			1000~26500	-14.34	-54.99	≤-34.34	PASS
		2437	Reference	-13.35	-13.35	---	PASS
			30~1000	-13.35	-67.87	≤-33.35	PASS
			1000~26500	-13.35	-54.85	≤-33.35	PASS
		2462	Reference	-13.35	-13.35	---	PASS
			30~1000	-13.35	-68.42	≤-33.35	PASS
			1000~26500	-13.35	-54.75	≤-33.35	PASS
11N20SISO	Ant1	2412	Reference	-13.51	-13.51	---	PASS
			30~1000	-13.51	-67.62	≤-33.51	PASS
			1000~26500	-13.51	-55.29	≤-33.51	PASS
		2437	Reference	-12.76	-12.76	---	PASS
			30~1000	-12.76	-68.84	≤-32.76	PASS
			1000~26500	-12.76	-55.27	≤-32.76	PASS
		2462	Reference	-12.97	-12.97	---	PASS
			30~1000	-12.97	-67.88	≤-32.97	PASS
			1000~26500	-12.97	-54.95	≤-32.97	PASS

Test Graphs

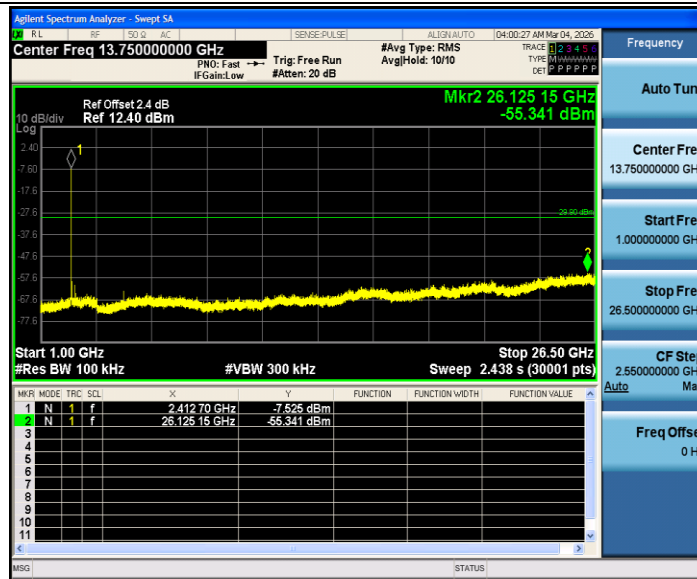
11B_Ant1_2412_0~Reference



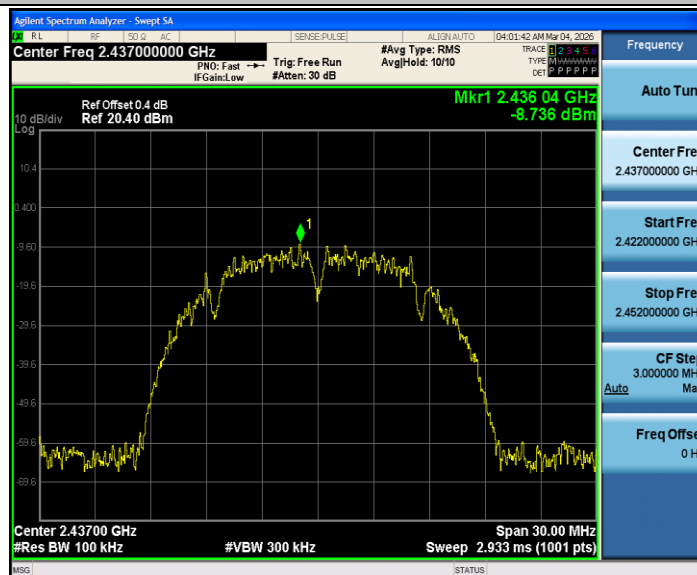
11B_Ant1_2412_30~1000



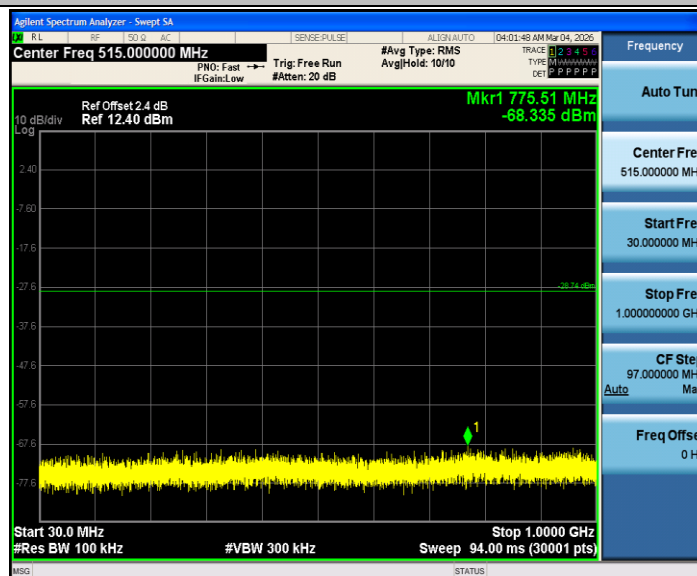
11B_Ant1_2412_1000~26500



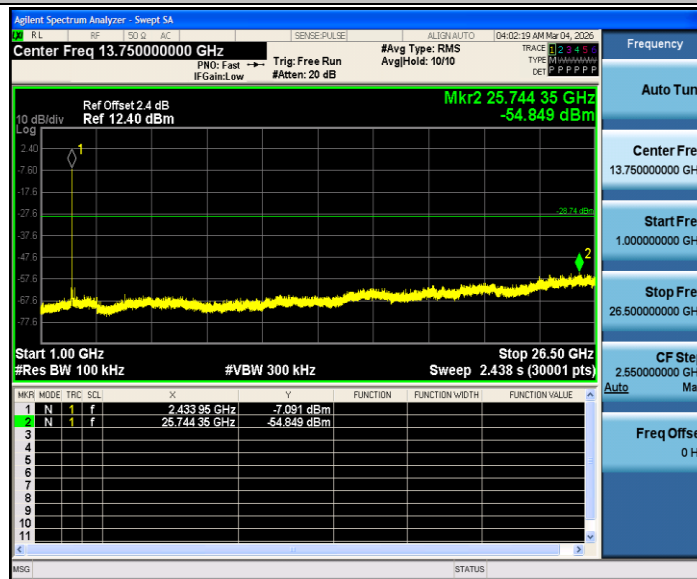
11B_Ant1_2437_0~Reference



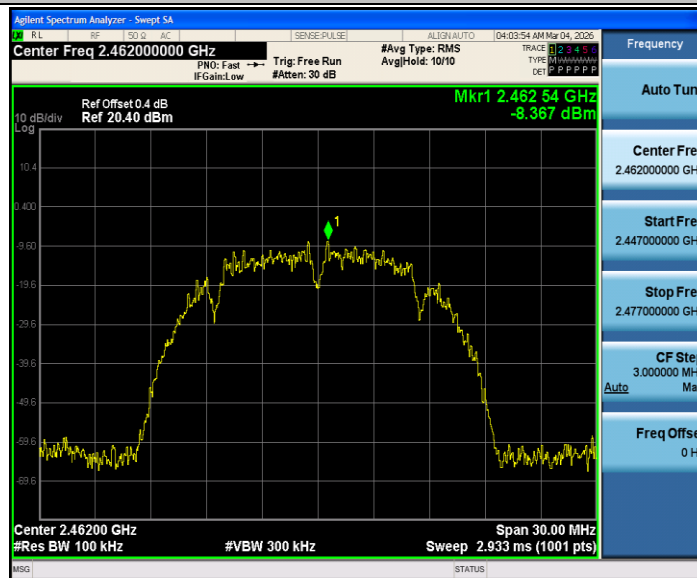
11B_Ant1_2437_30~1000



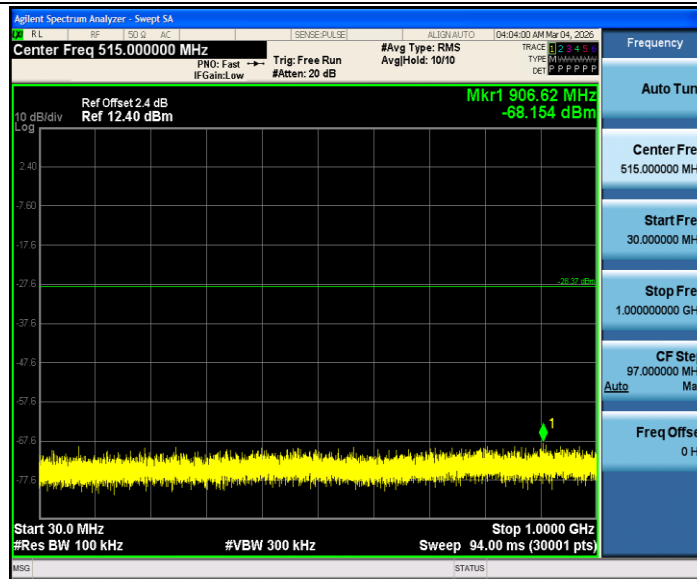
11B_Ant1_2437_1000~26500



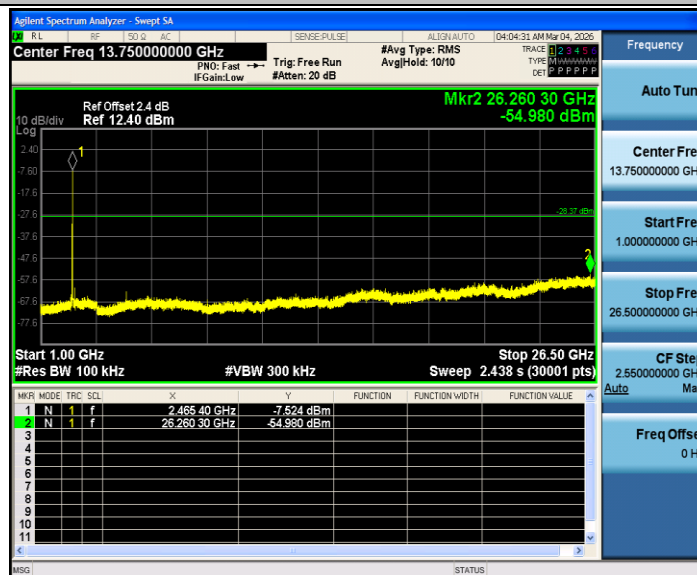
11B_Ant1_2462_0~Reference



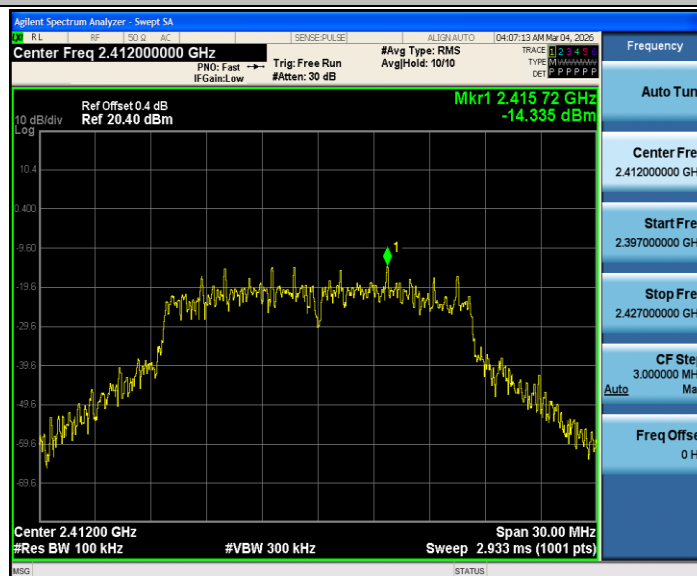
11B_Ant1_2462_30~1000



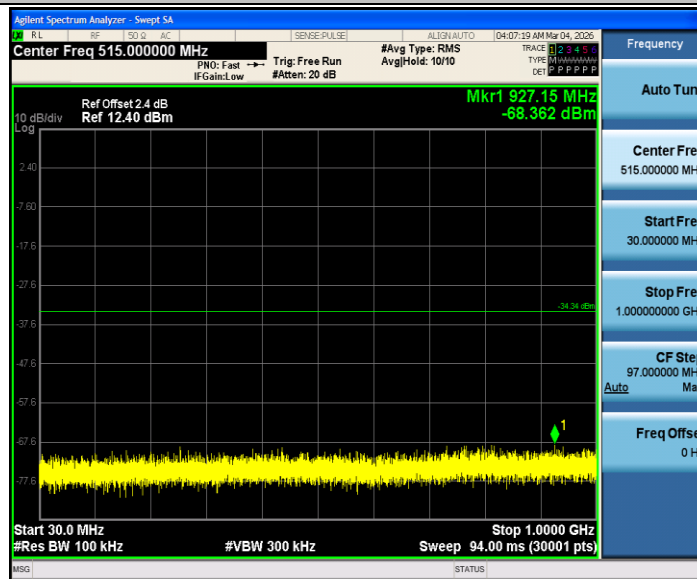
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



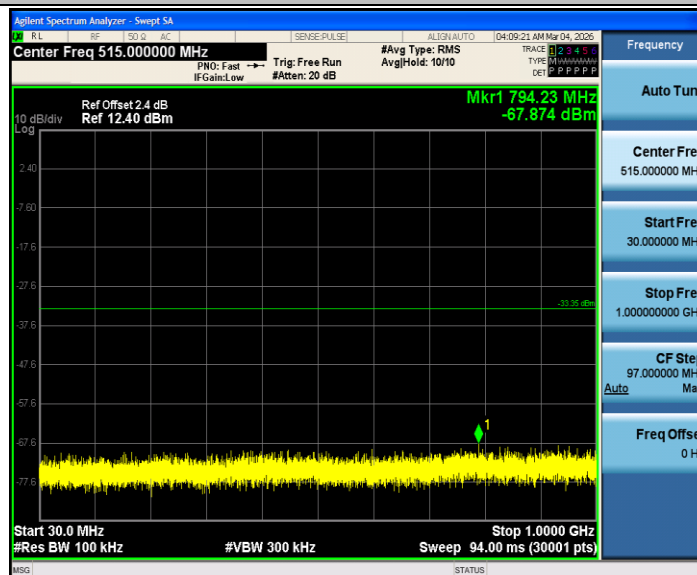
11G_Ant1_2412_1000~26500



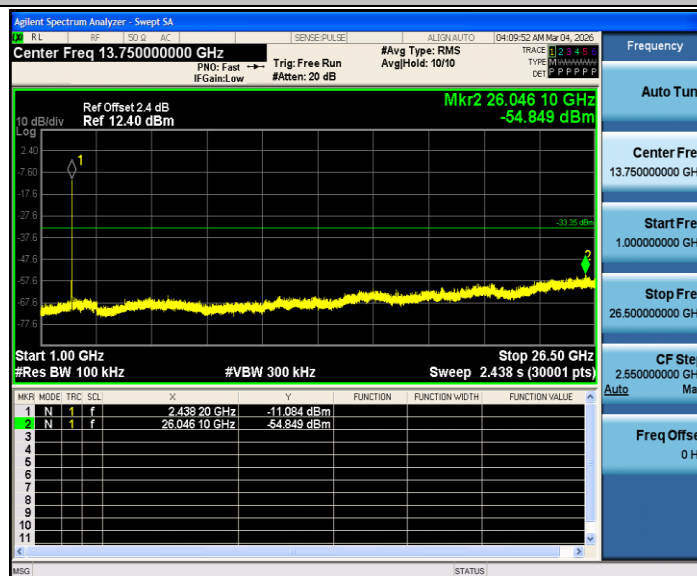
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



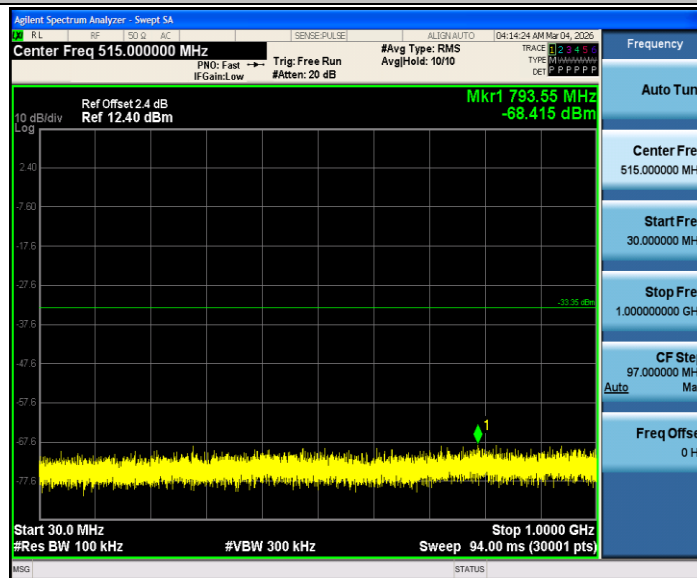
11G_Ant1_2437_1000~26500



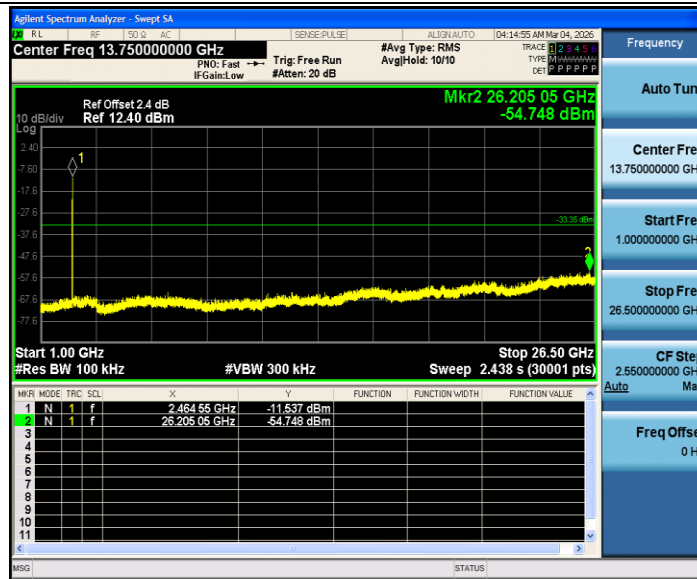
11G_Ant1_2462_0~Reference



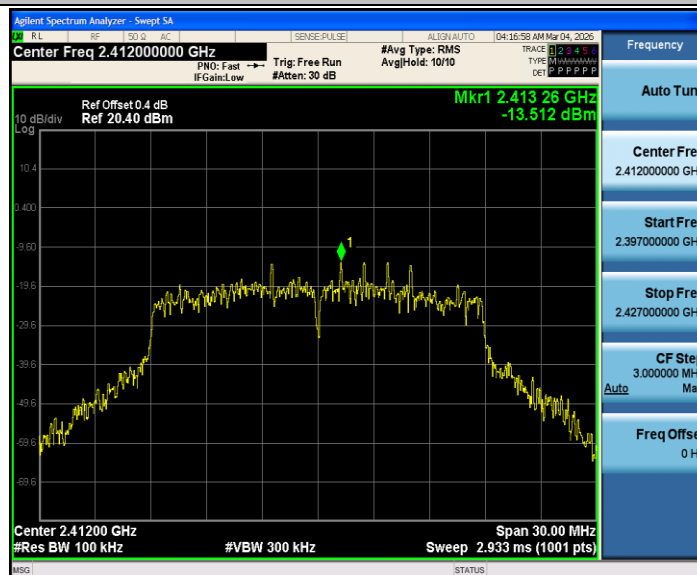
11G_Ant1_2462_30~1000



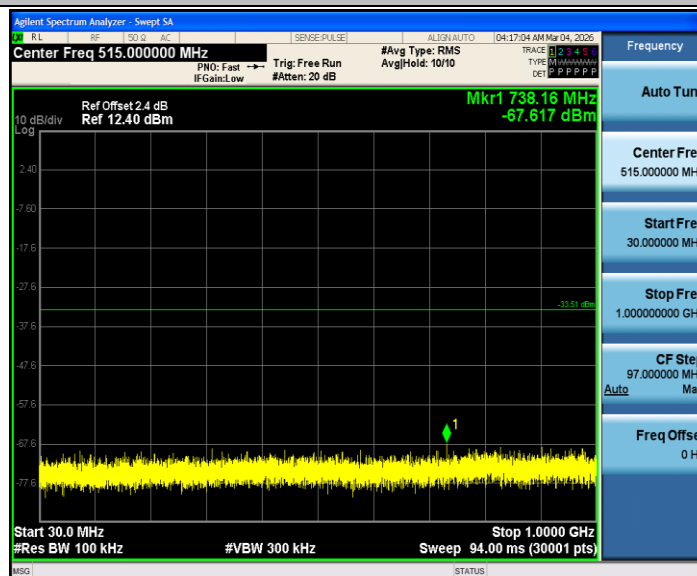
11G_Ant1_2462_1000~26500



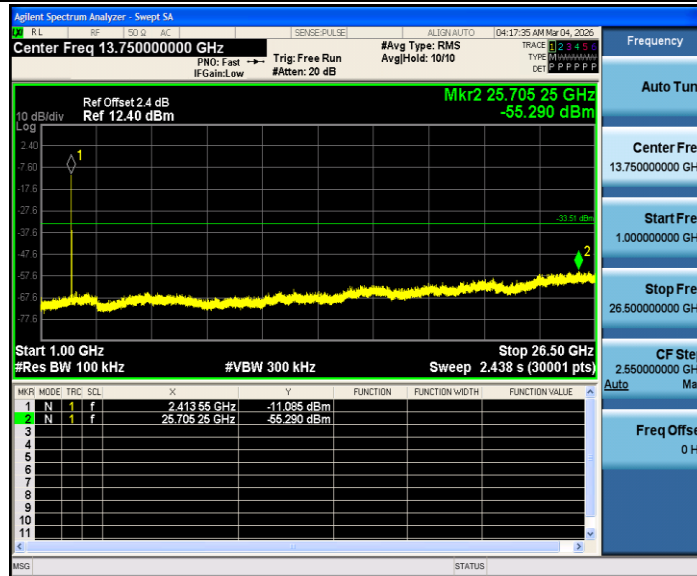
11N20SISO_Ant1_2412_0~Reference



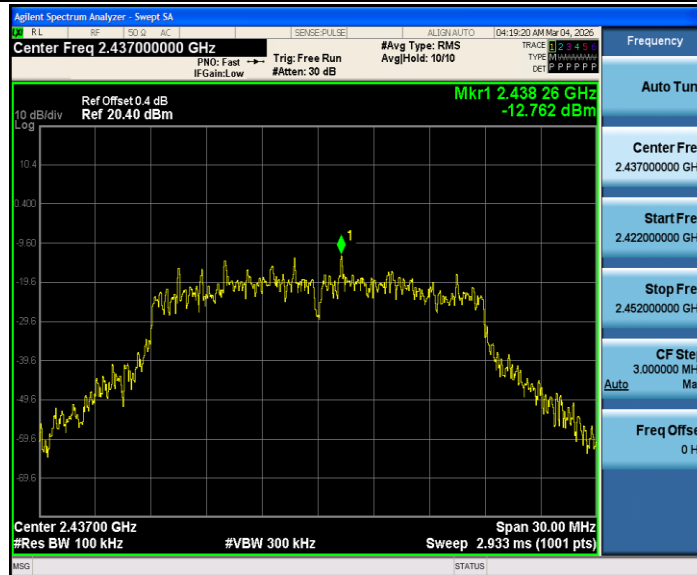
11N20SISO_Ant1_2412_30~1000



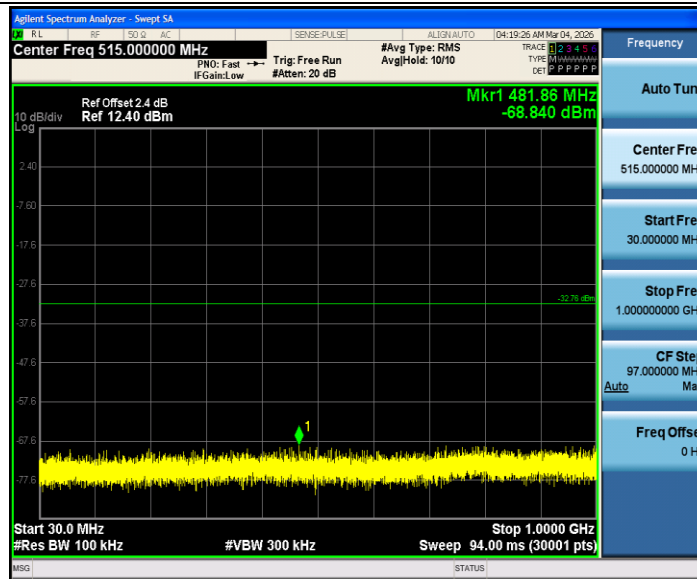
11N20SISO_Ant1_2412_1000~26500



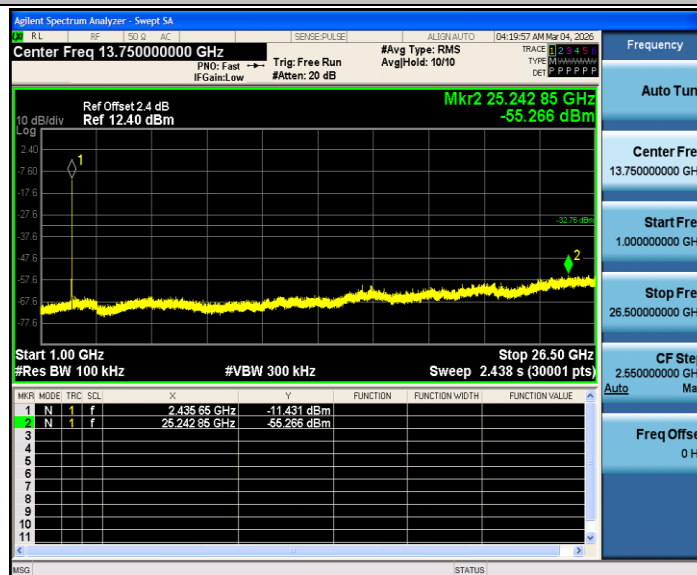
11N20SISO_Ant1_2437_0~Reference



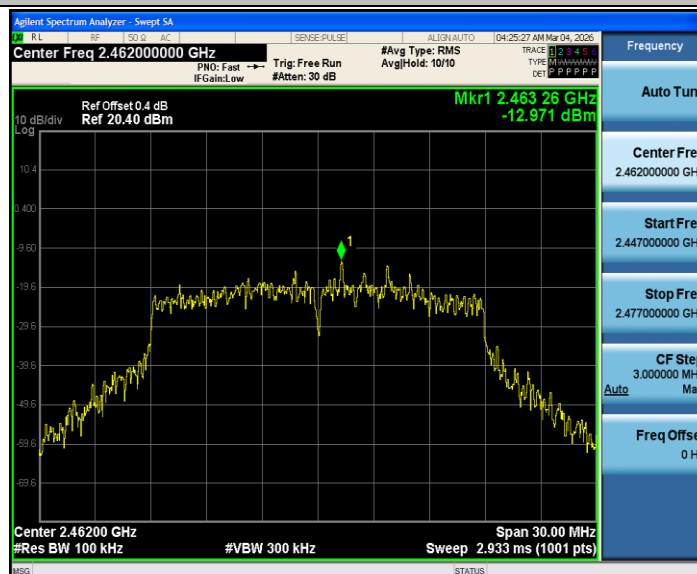
11N20SISO_Ant1_2437_30~1000



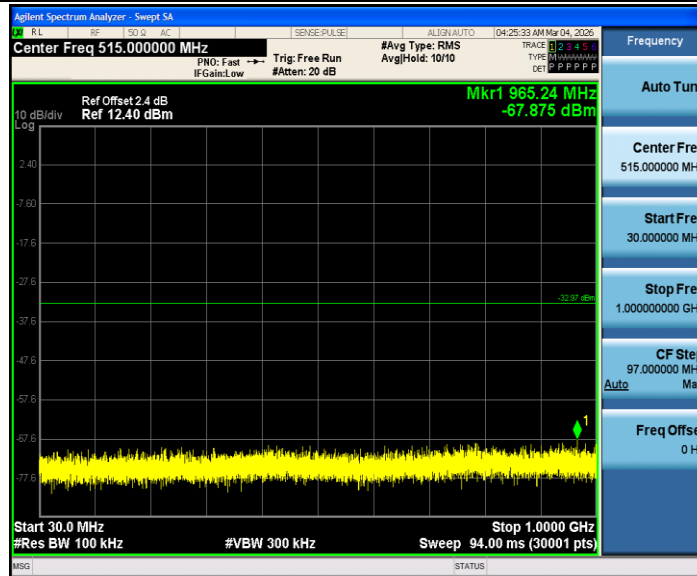
11N20SISO_Ant1_2437_1000~26500



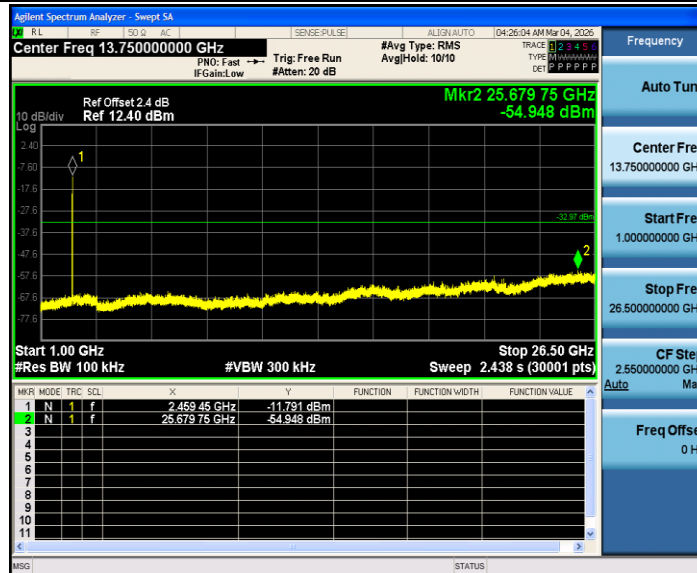
11N20SISO_Ant1_2462_0~Reference



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	8.40	99.40	0.03	0.12
		2462	8.35	8.40	99.40	0.03	0.12
11G	Ant1	2412	0.15	0.19	78.95	1.03	6.67
		2437	0.15	0.20	75.00	1.25	6.67
		2462	0.15	0.20	75.00	1.25	6.67
11N20SISO	Ant1	2412	0.17	0.22	77.27	1.12	5.88
		2437	0.18	0.22	81.82	0.87	5.56
		2462	0.18	0.23	78.26	1.06	5.56