

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BWFP-LX1028

Company : Shenzhen Liangxiang Technology Co., Ltd

EUT : Camera

Model Number : LX1028

Report No. : CTA26041701201

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

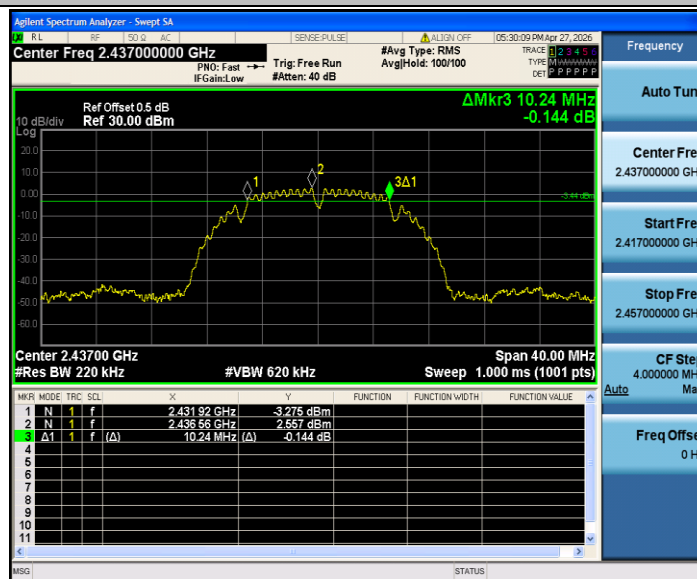
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.920	2417.120	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.600	2404.120	2419.720	0.5	PASS
		2437	15.680	2429.120	2444.800	0.5	PASS
		2462	15.600	2454.440	2470.040	0.5	PASS
11N20SISO	Ant1	2412	16.200	2404.040	2420.240	0.5	PASS
		2437	16.880	2428.480	2445.360	0.5	PASS
		2462	16.440	2453.480	2469.920	0.5	PASS

Test Graphs

11B_Ant1_2412



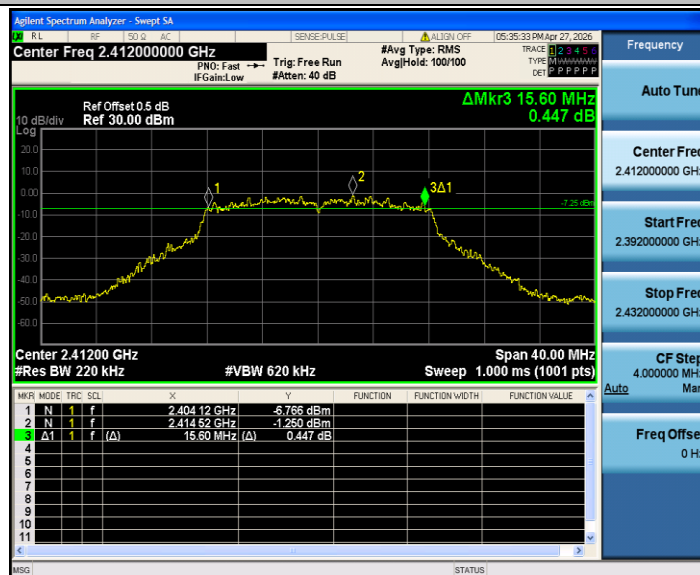
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437





11N20SISO_Ant1_2462



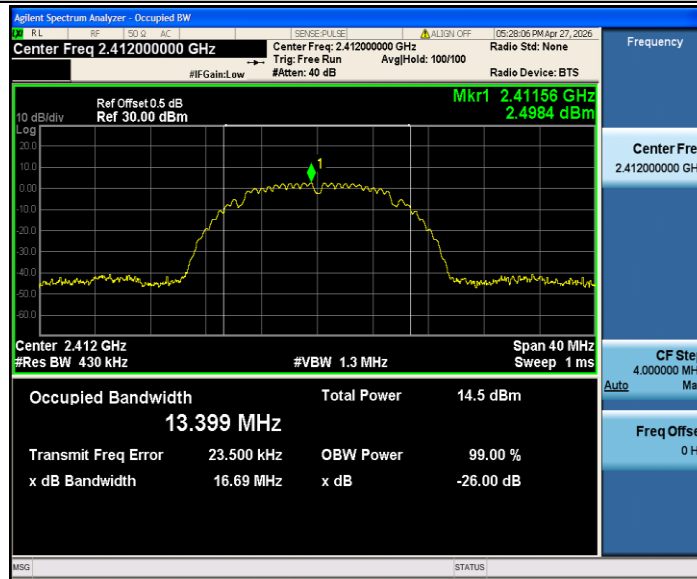
Appendix B: Occupied Channel Bandwidth

Test Result

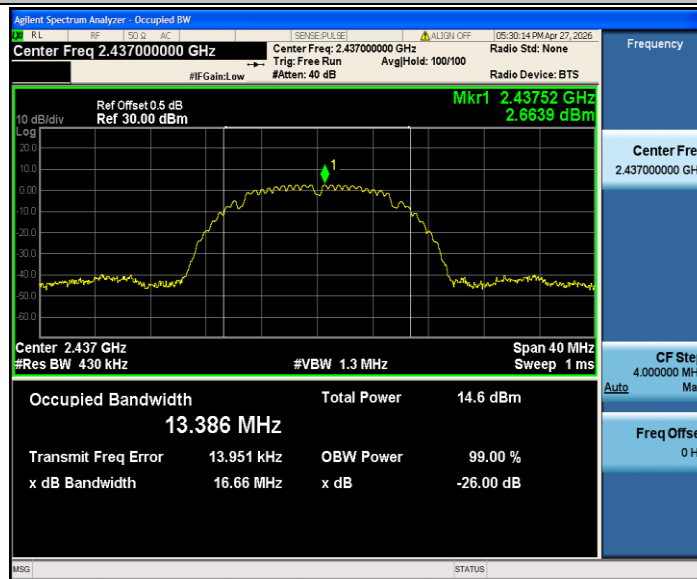
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.399	2405.3240	2418.7230	---	---
		2437	13.386	2430.3210	2443.7070	---	---
		2462	13.430	2455.2964	2468.7264	---	---
11G	Ant1	2412	16.774	2403.6912	2420.4652	---	---
		2437	16.801	2428.6609	2445.4619	---	---
		2462	16.955	2453.5684	2470.5234	---	---
11N20SISO	Ant1	2412	17.895	2403.0911	2420.9861	---	---
		2437	17.921	2428.0412	2445.9622	---	---
		2462	17.857	2453.0836	2470.9406	---	---

Test Graphs

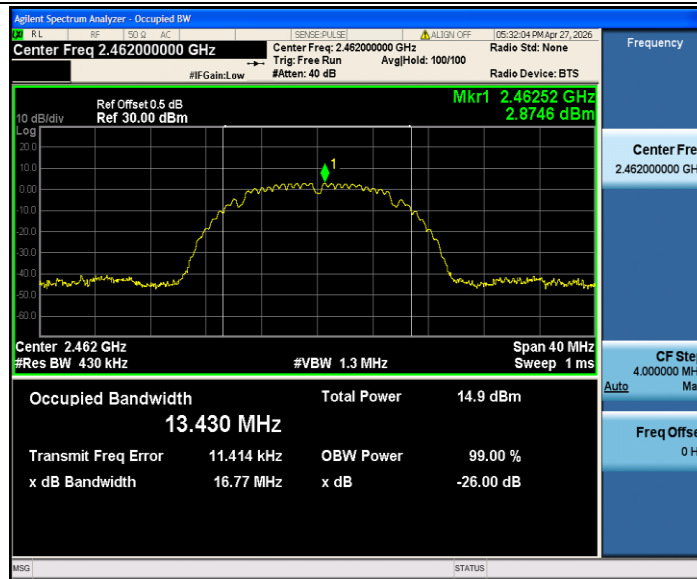
11B_Ant1_2412



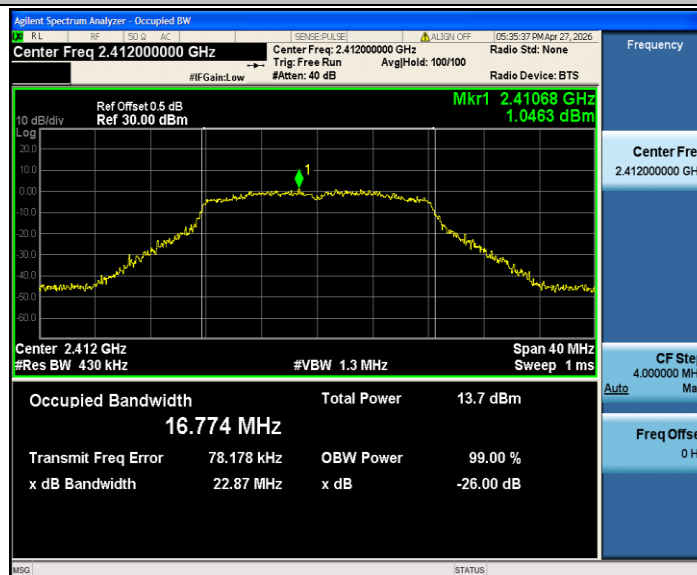
11B_Ant1_2437



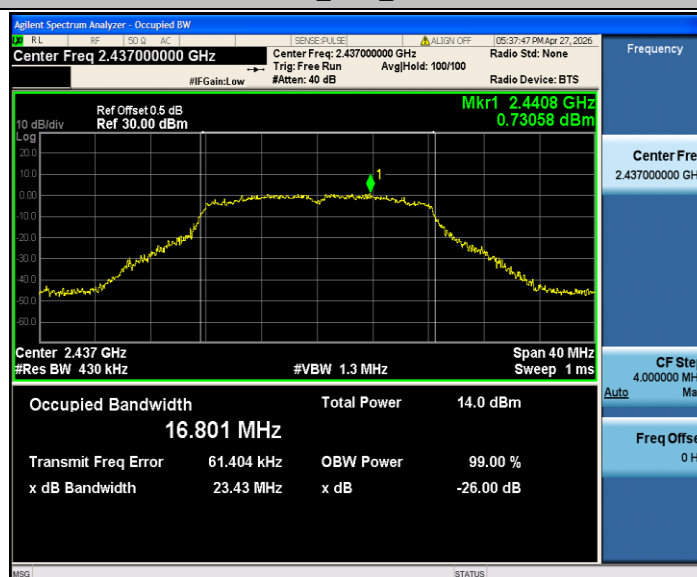
11B_Ant1_2462



11G_Ant1_2412



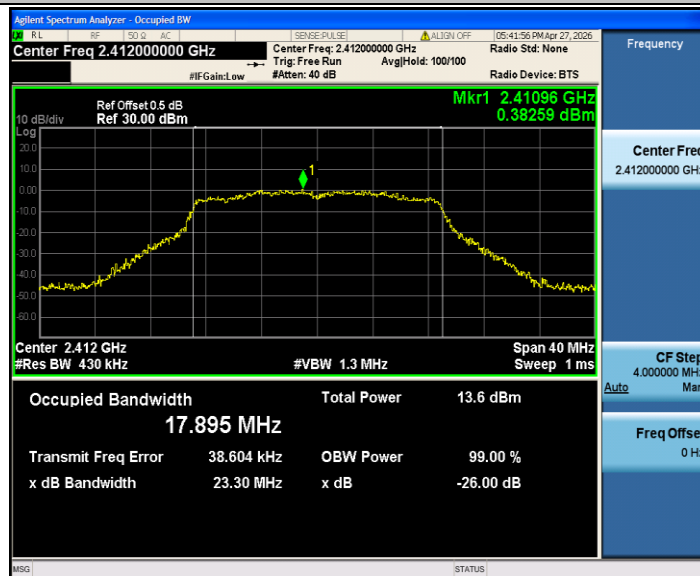
11G_Ant1_2437



11G_Ant1_2462



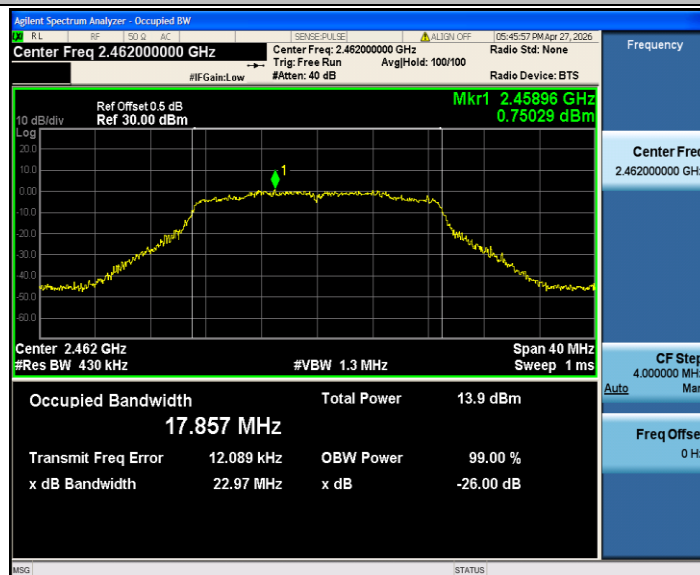
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.22	≤30.00	PASS
		2437	14.31	≤30.00	PASS
		2462	14.55	≤30.00	PASS
11G	Ant1	2412	14.67	≤30.00	PASS
		2437	14.92	≤30.00	PASS
		2462	15.03	≤30.00	PASS
11N20SISO	Ant1	2412	14.43	≤30.00	PASS
		2437	14.79	≤30.00	PASS
		2462	14.80	≤30.00	PASS
11N40SISO	Ant1	2422	14.22	≤30.00	PASS
		2437	14.31	≤30.00	PASS
		2452	14.55	≤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	-12.01	≤8.00	PASS
		2437	-11.27	≤8.00	PASS
		2462	-11.53	≤8.00	PASS
11G	Ant1	2412	-17.08	≤8.00	PASS
		2437	-16.32	≤8.00	PASS
		2462	-16.50	≤8.00	PASS
11N20SISO	Ant1	2412	-16.69	≤8.00	PASS
		2437	-16.08	≤8.00	PASS
		2462	-17.69	≤8.00	PASS

Test Graphs

11B_Ant1_2412



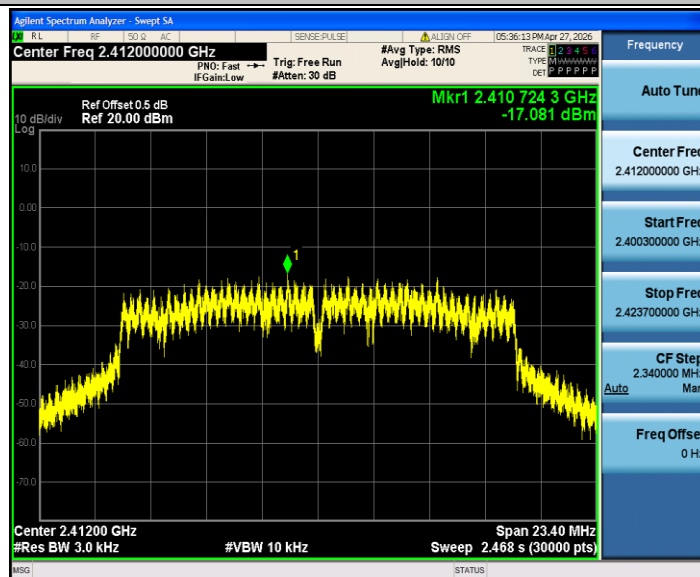
11B_Ant1_2437



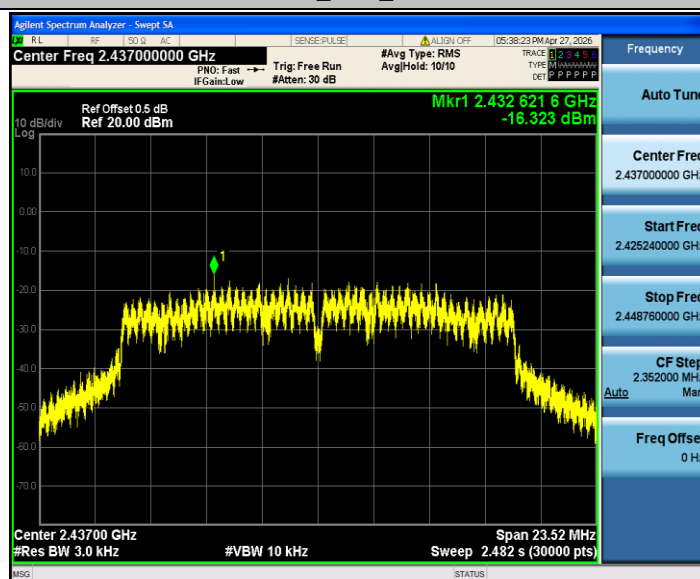
11B_Ant1_2462



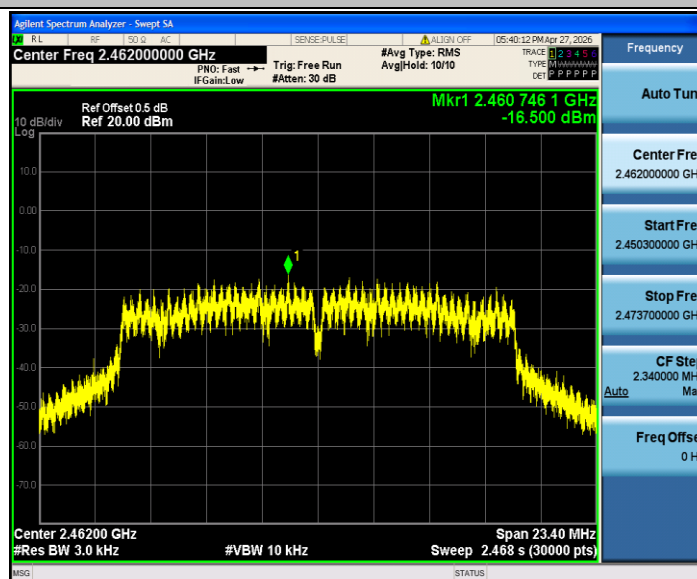
11G_Ant1_2412



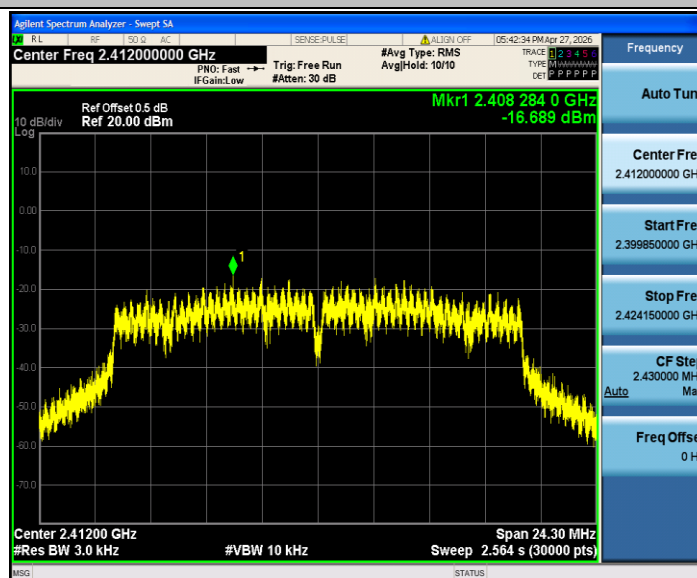
11G_Ant1_2437



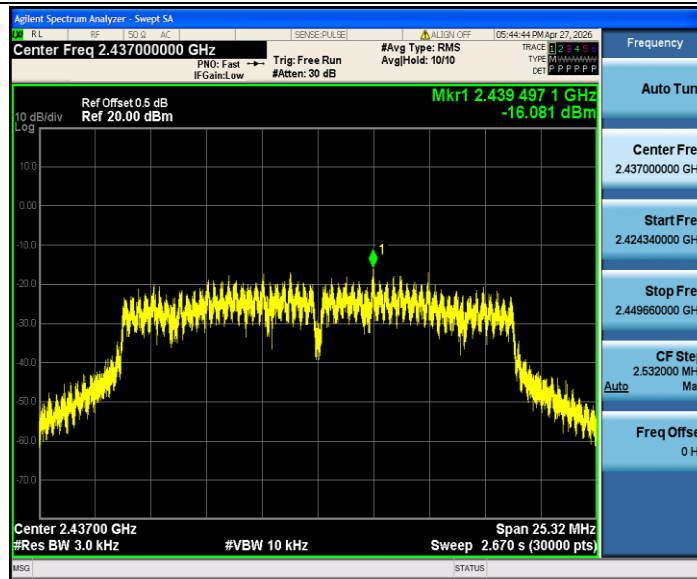
11G_Ant1_2462



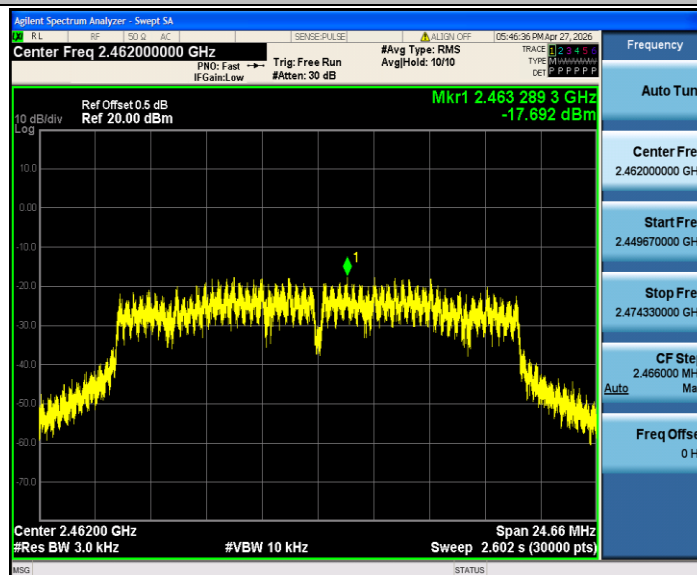
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



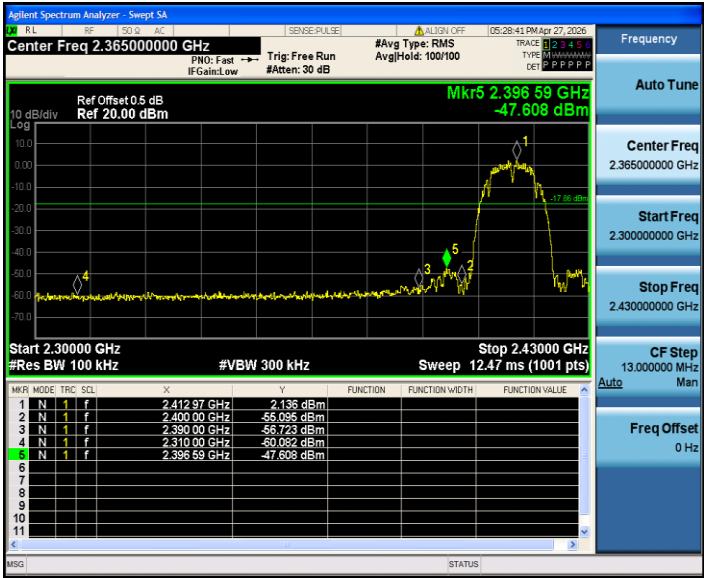
Appendix E: Band edge measurements

Test Result

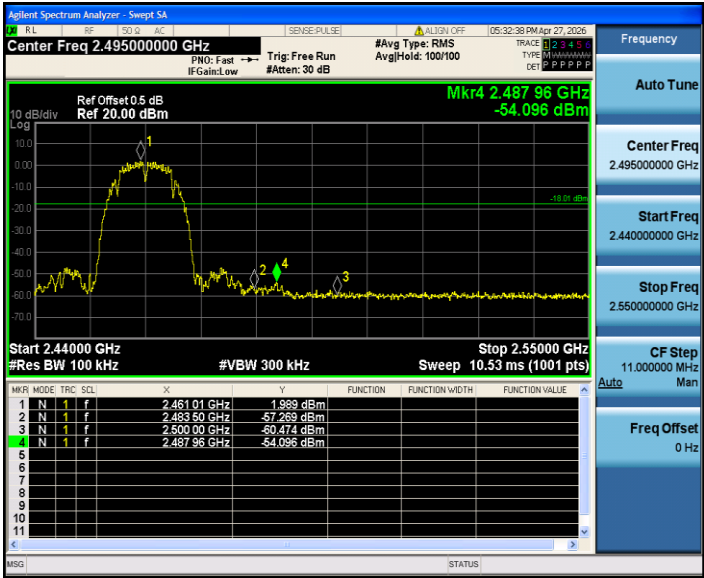
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.14	-47.61	≤-17.86	PASS
		High	2462	1.99	-54.1	≤-18.01	PASS
11G	Ant1	Low	2412	-1.92	-34.13	≤-21.92	PASS
		High	2462	-1.51	-57.03	≤-21.51	PASS
11N20SISO	Ant1	Low	2412	-1.83	-31.93	≤-21.83	PASS
		High	2462	-1.53	-57.06	≤-21.53	PASS

Test Graphs

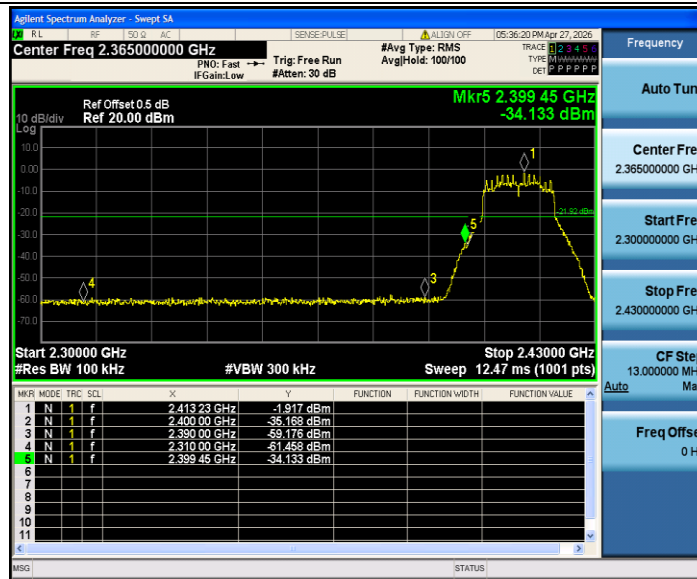
11B_Ant1_Low_2412



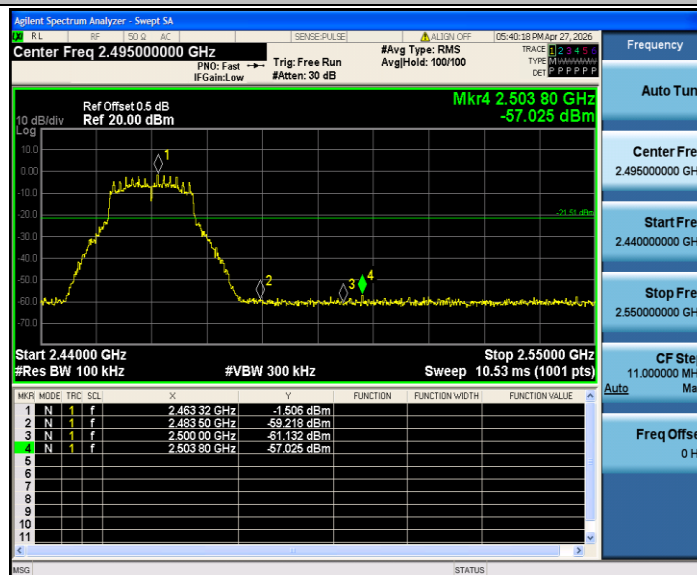
11B_Ant1_High_2462



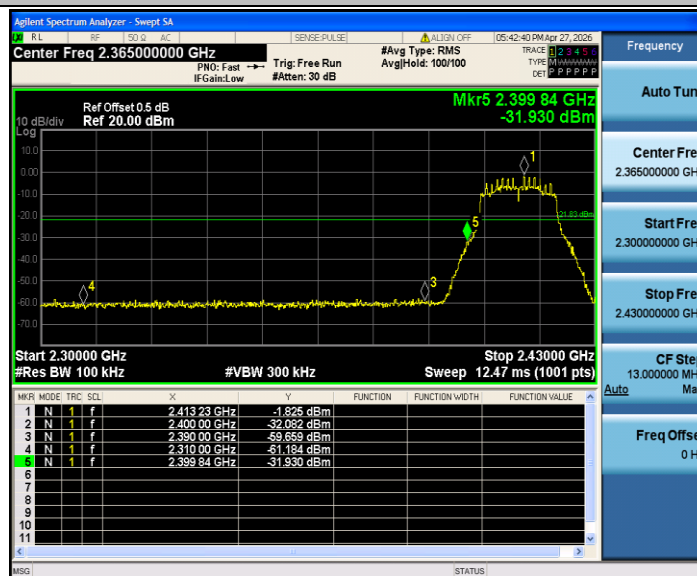
11G_Ant1_Low_2412



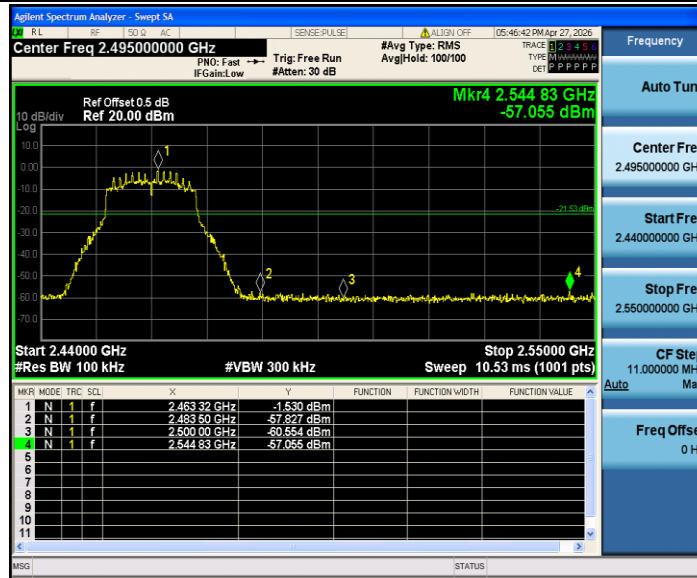
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

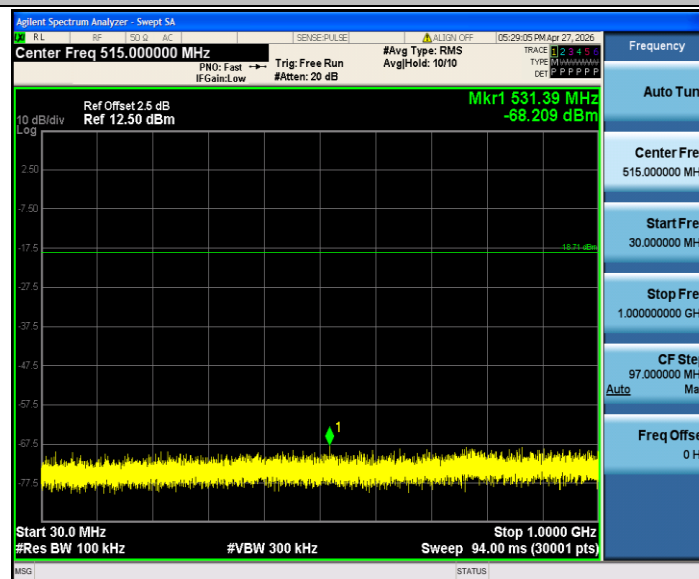
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-68.21	≤-18.71	PASS
			1000~26500	1.29	-55.77	≤-18.71	PASS
		2437	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-67.9	≤-18.87	PASS
			1000~26500	1.13	-55.26	≤-18.87	PASS
		2462	Reference	2.03	2.03	---	PASS
			30~1000	2.03	-68.06	≤-17.97	PASS
			1000~26500	2.03	-54.93	≤-17.97	PASS
11G	Ant1	2412	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-67.44	≤-22.23	PASS
			1000~26500	-2.23	-55.87	≤-22.23	PASS
		2437	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-67.61	≤-22.77	PASS
			1000~26500	-2.77	-55.34	≤-22.77	PASS
		2462	Reference	-1.95	-1.95	---	PASS
			30~1000	-1.95	-67.77	≤-21.95	PASS
			1000~26500	-1.95	-55.86	≤-21.95	PASS
11N20SISO	Ant1	2412	Reference	-2.58	-2.58	---	PASS
			30~1000	-2.58	-67.69	≤-22.58	PASS
			1000~26500	-2.58	-55.19	≤-22.58	PASS
		2437	Reference	-1.80	-1.80	---	PASS
			30~1000	-1.80	-67.66	≤-21.8	PASS
			1000~26500	-1.80	-55.74	≤-21.8	PASS
		2462	Reference	-2.63	-2.63	---	PASS
			30~1000	-2.63	-67.94	≤-22.63	PASS
			1000~26500	-2.63	-55.68	≤-22.63	PASS

Test Graphs

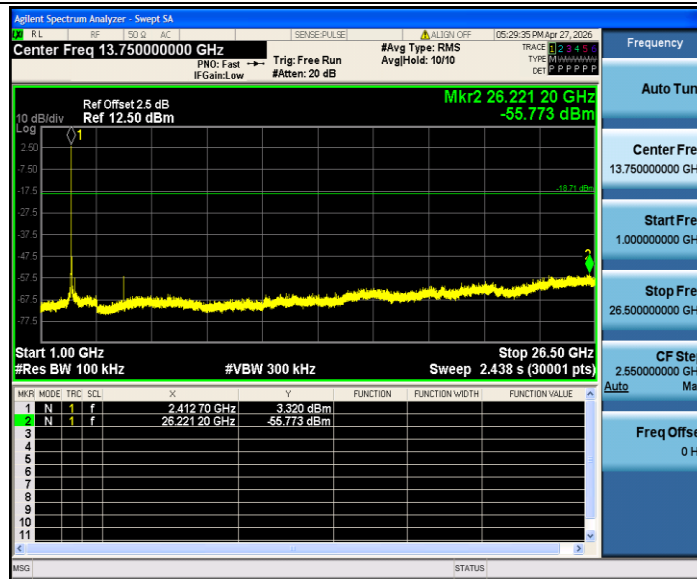
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



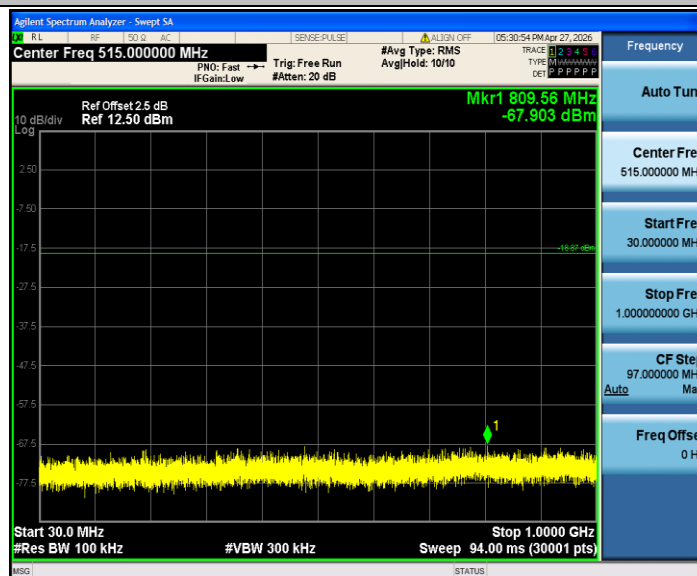
11B_Ant1_2412_1000~26500



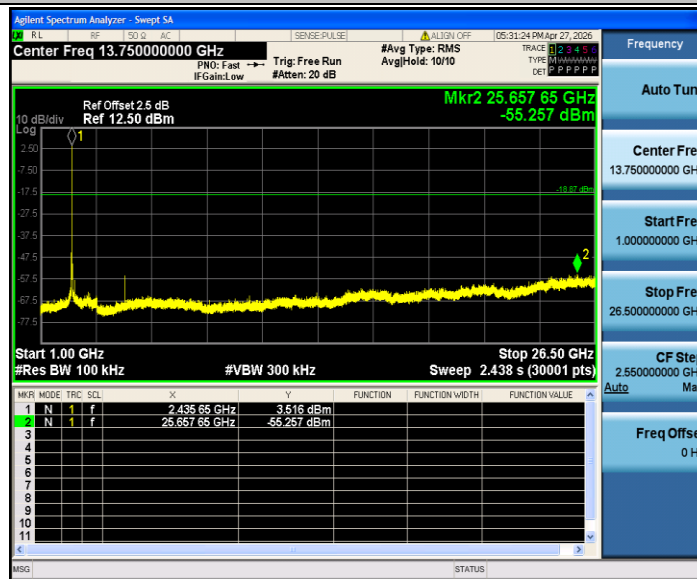
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



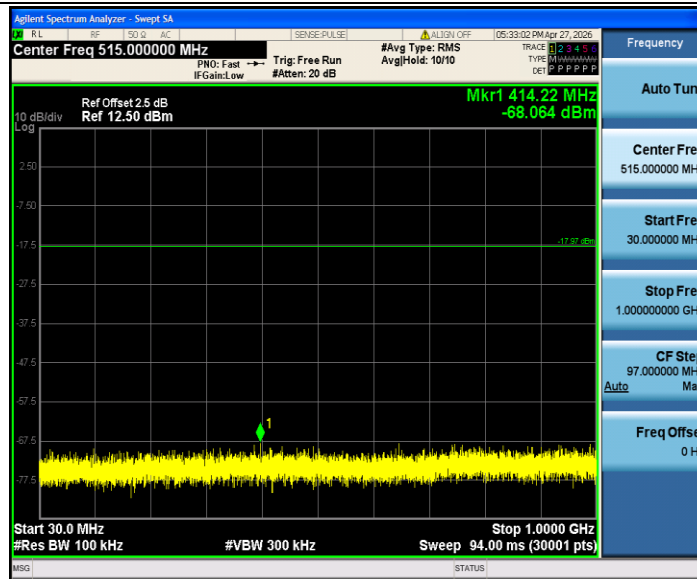
11B_Ant1_2437_1000~26500



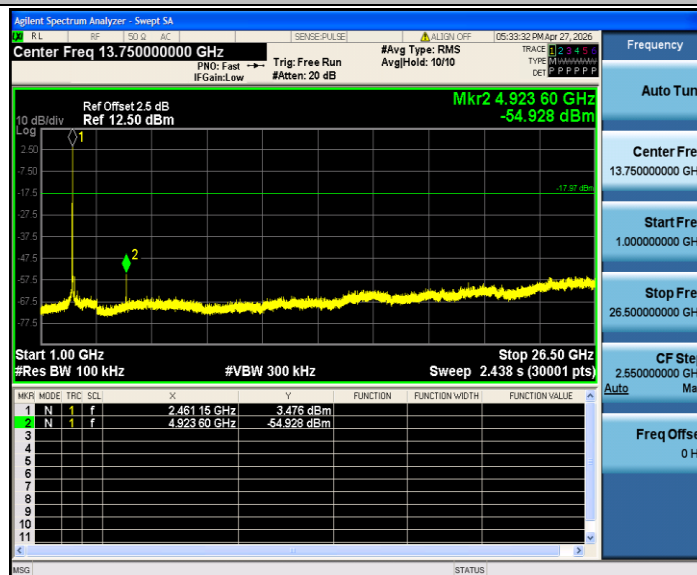
11B_Ant1_2462_0~Reference



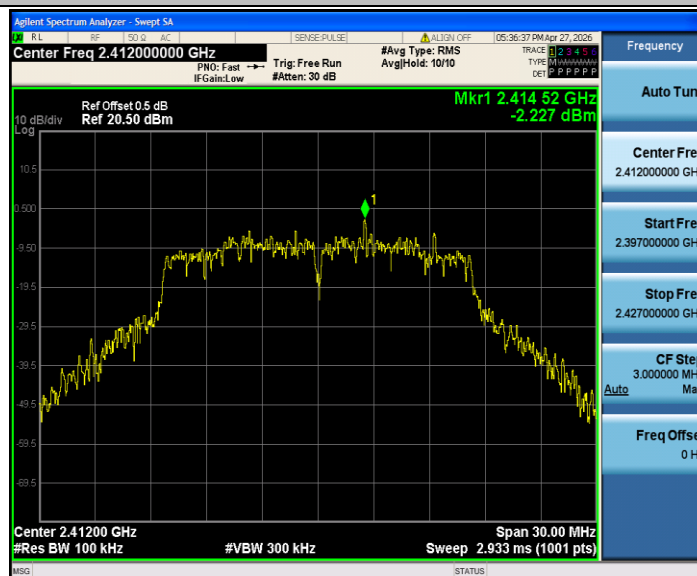
11B_Ant1_2462_30~1000



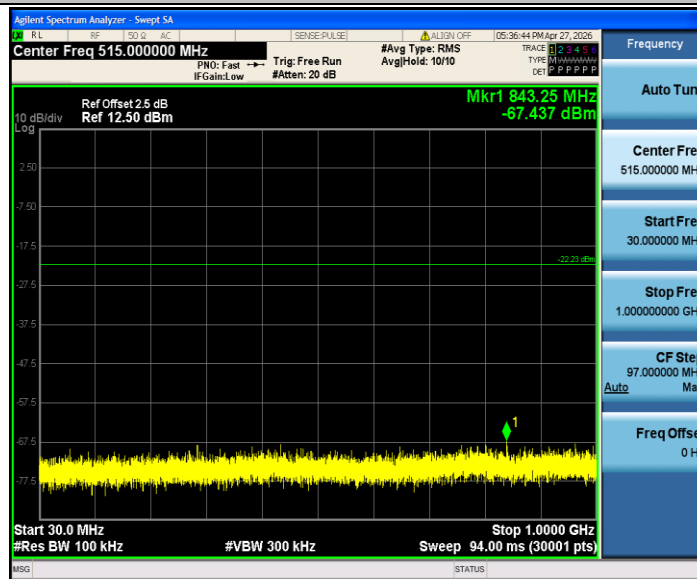
11B_Ant1_2462_1000~26500



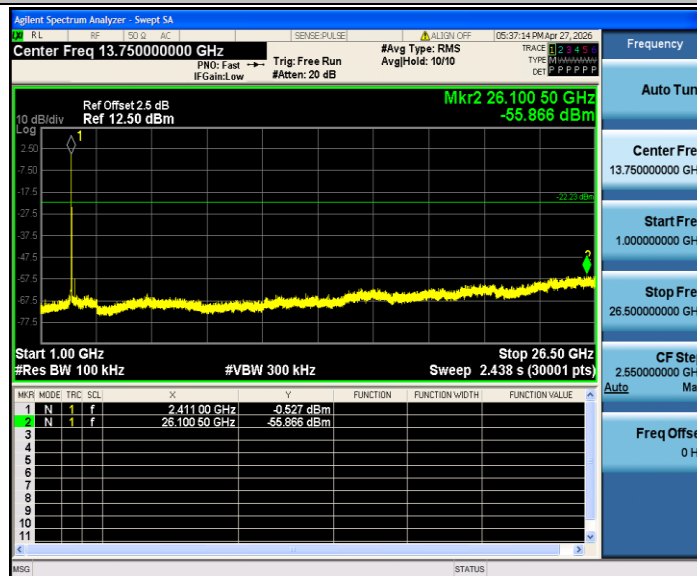
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



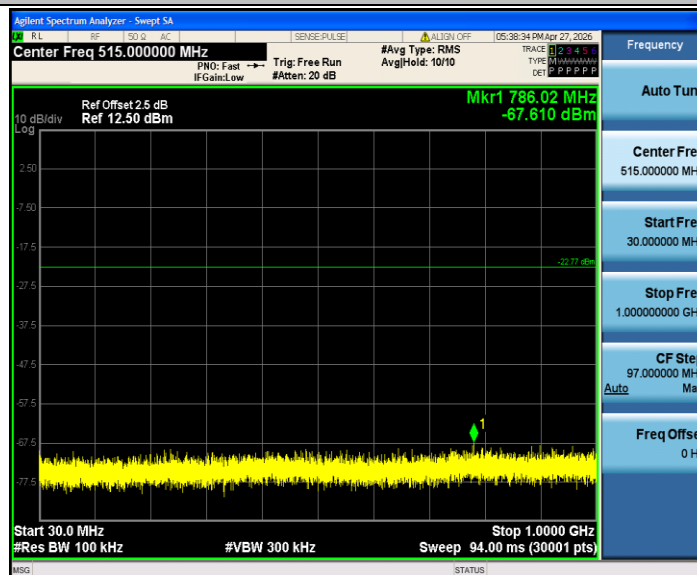
11G_Ant1_2412_1000~26500



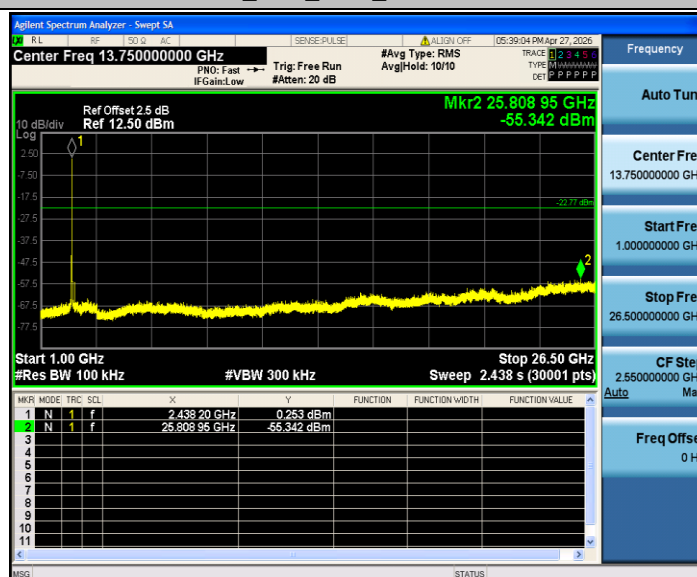
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



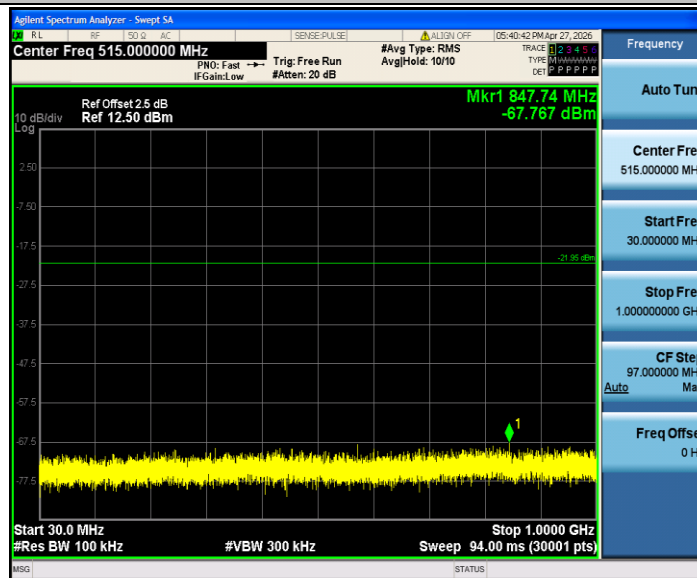
11G_Ant1_2437_1000~26500



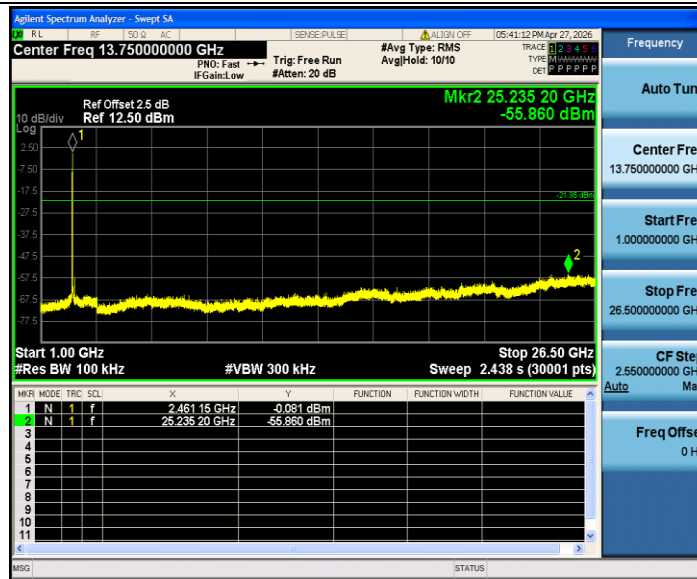
11G_Ant1_2462_0~Reference



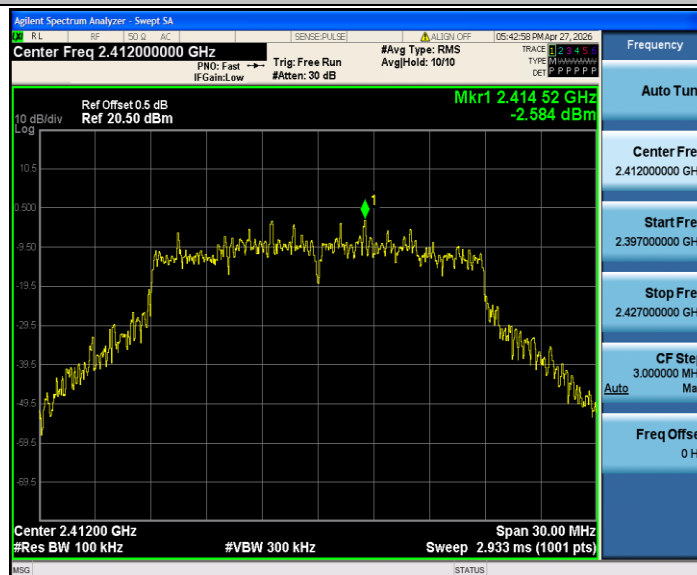
11G_Ant1_2462_30~1000



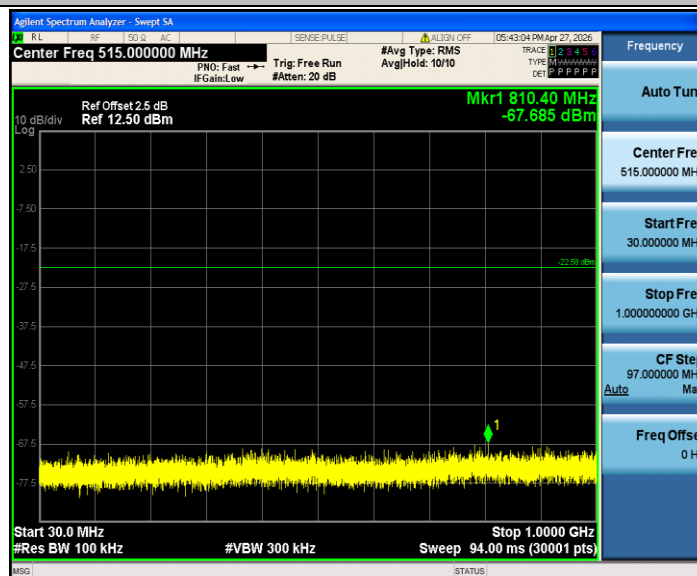
11G_Ant1_2462_1000~26500



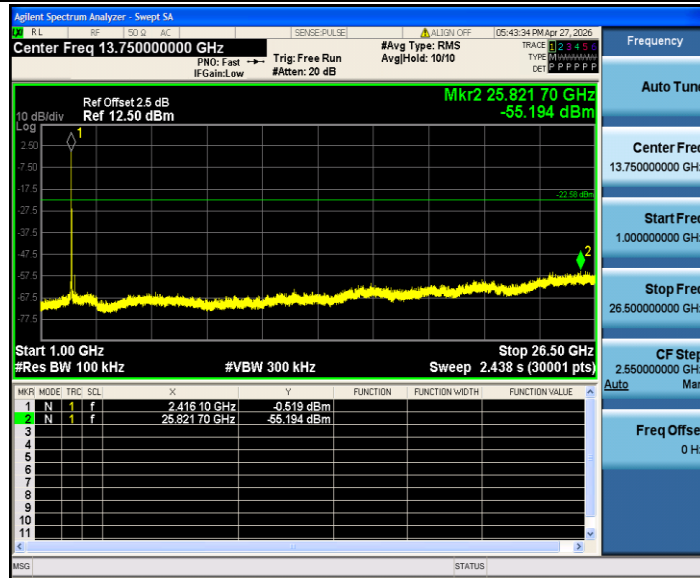
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



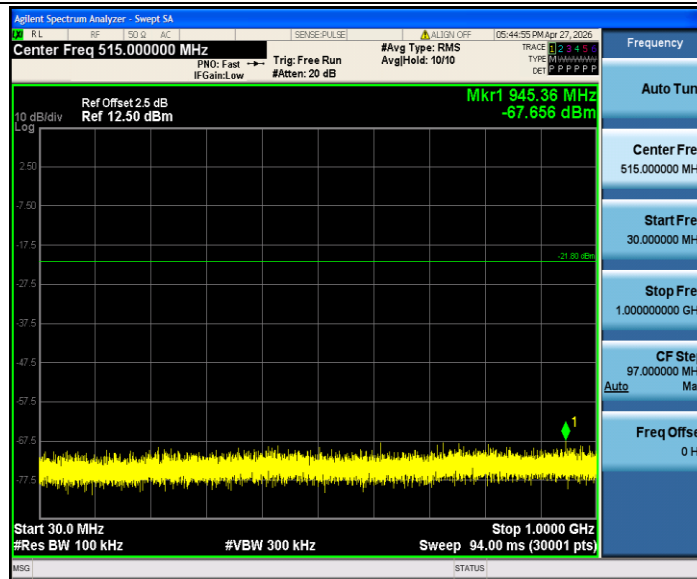
11N20SISO_Ant1_2412_1000~26500



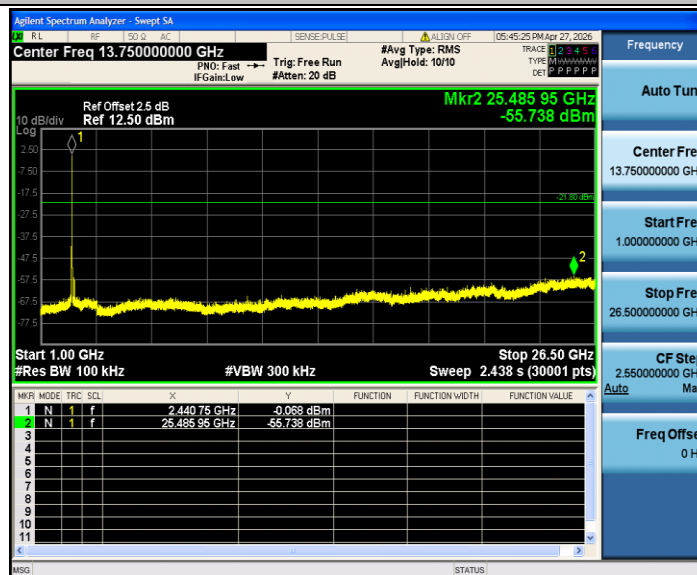
11N20SISO_Ant1_2437_0~Reference



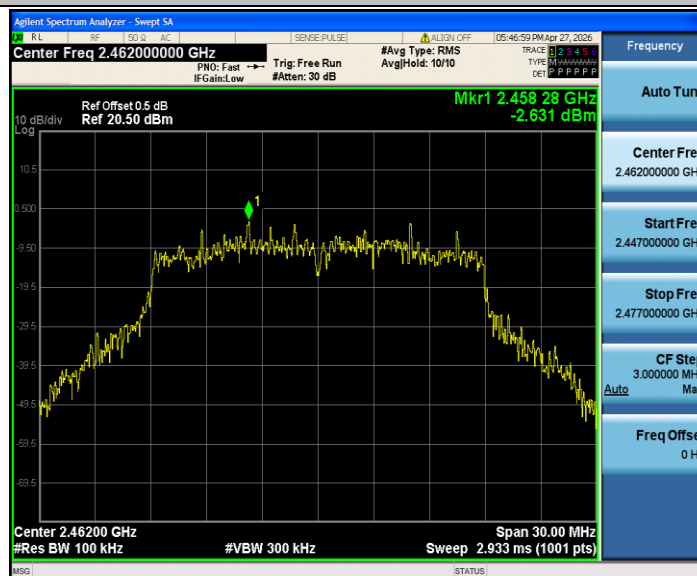
11N20SISO_Ant1_2437_30~1000



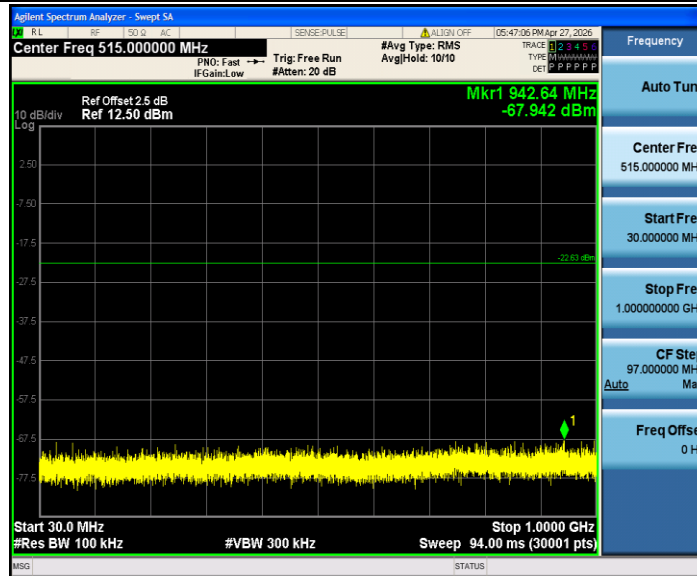
11N20SISO_Ant1_2437_1000~26500



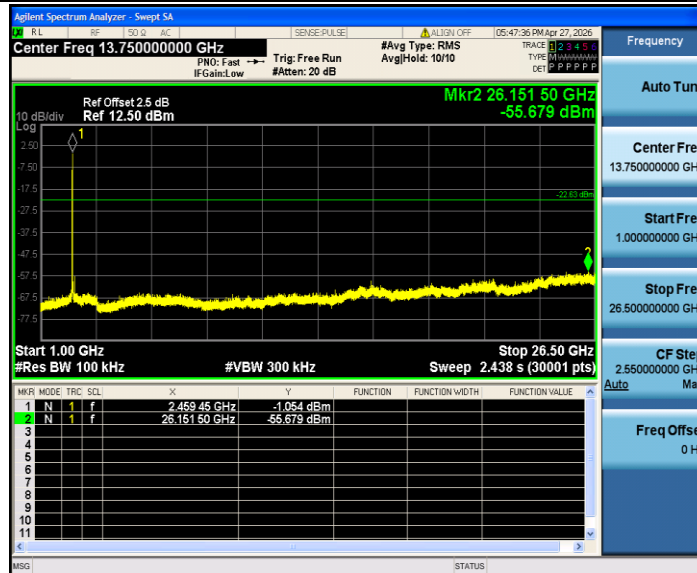
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



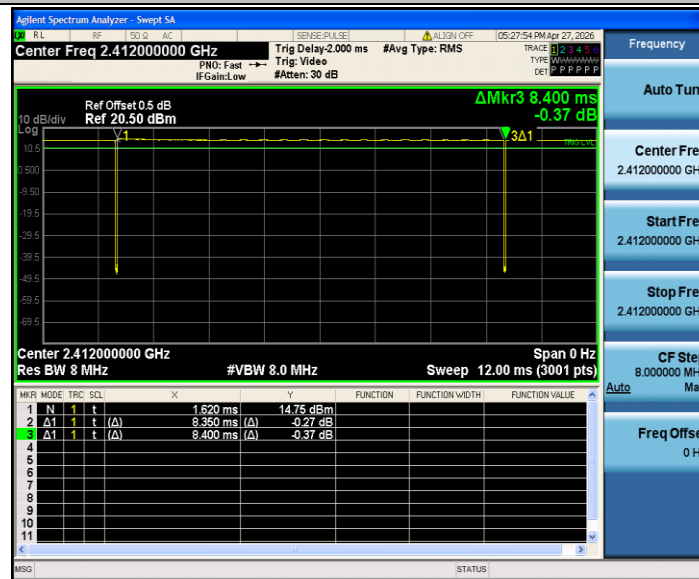
Appendix G: Duty Cycle

Test Result

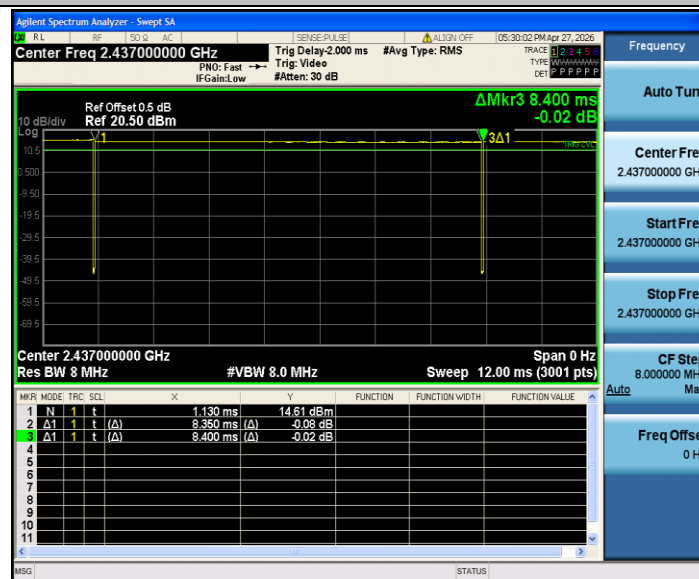
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	T Factor [dB]
11B	Ant1	2412	8.35	8.40	99.40	0.03	0.12
		2437	8.35	8.40	99.40	0.03	0.12
		2462	8.35	8.39	99.52	0.02	0.12
11G	Ant1	2412	0.14	0.19	73.68	1.33	7.14
		2437	0.15	0.20	75.00	1.25	6.67
		2462	0.15	0.20	75.00	1.25	6.67
11N20SISO	Ant1	2412	0.18	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

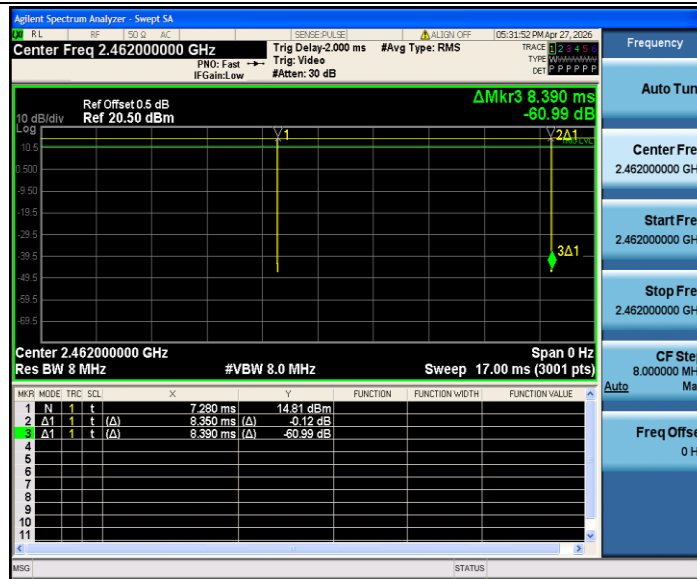
11B_Ant1_2412



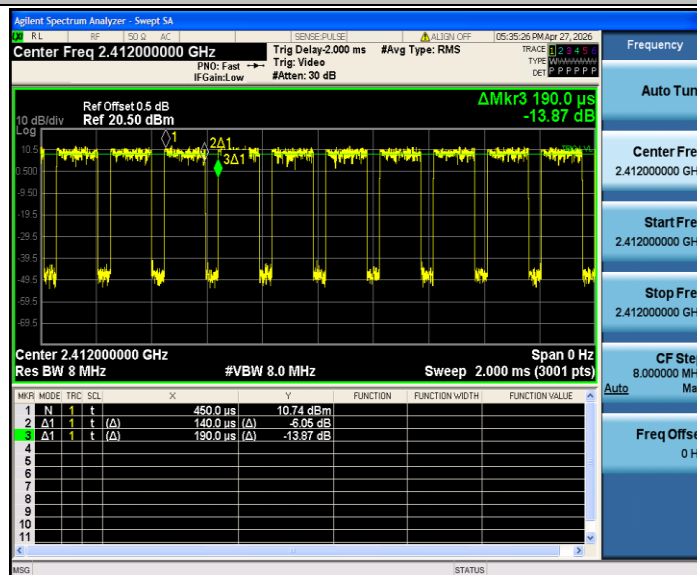
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437

