

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BX6L-HY7708

Company : Shenzhen LuZhitong Technology Co., Ltd

EUT : Car dashcam

Model Number : HY7708

Report No. : CTA26082800801

Reviewed By : Eric Wang

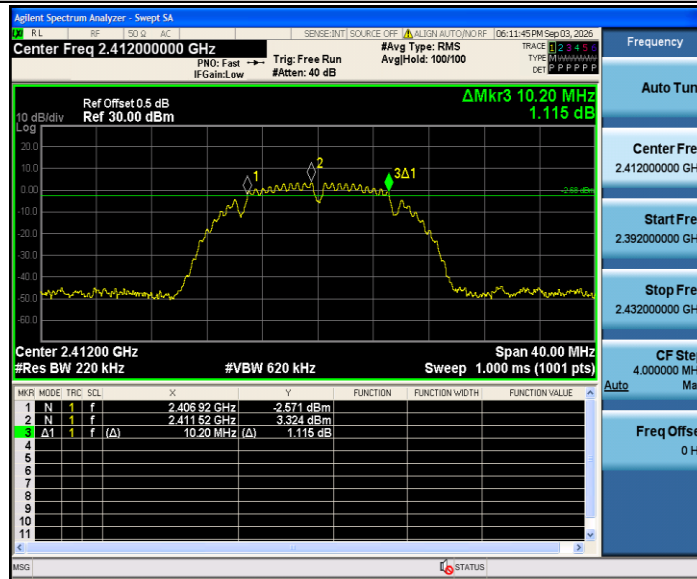
Appendix A: DTS Bandwidth

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	10.200	2431.960	2442.160	0.5	PASS
		2462	10.200	2456.960	2467.160	0.5	PASS
11G	Ant1	2412	16.120	2404.040	2420.160	0.5	PASS
		2437	15.680	2429.200	2444.880	0.5	PASS
		2462	15.920	2454.080	2470.000	0.5	PASS
11N20SISO	Ant1	2412	17.000	2403.440	2420.440	0.5	PASS
		2437	16.880	2428.680	2445.560	0.5	PASS
		2462	16.800	2453.680	2470.480	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.560	2440.080	0.5	PASS
		2437	35.520	2419.400	2454.920	0.5	PASS
		2452	35.600	2434.480	2470.080	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



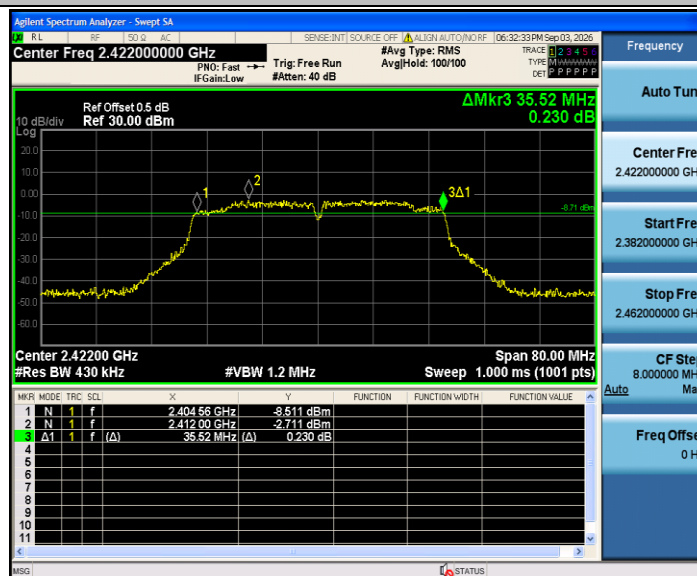
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



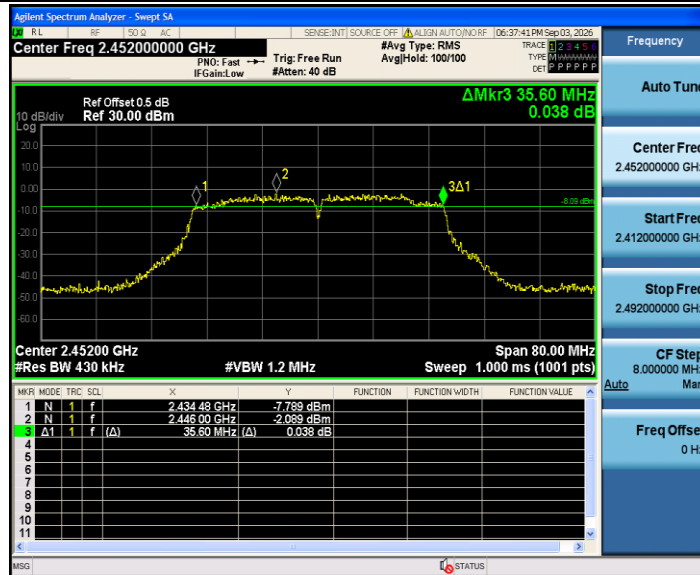
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



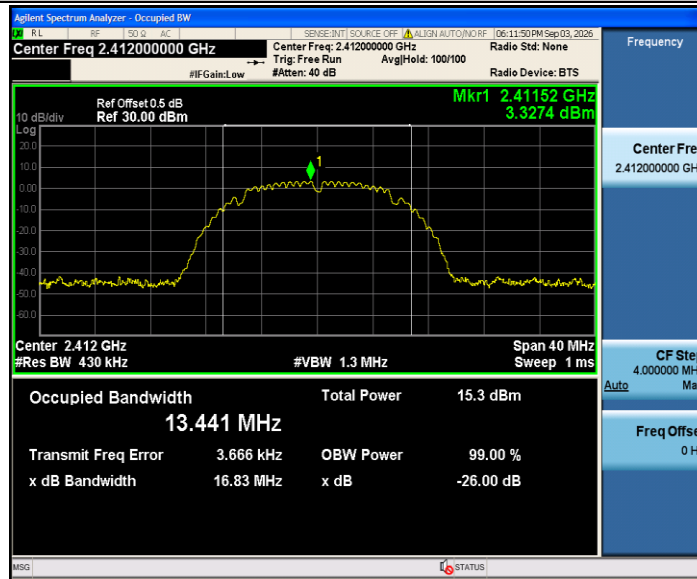
Appendix B: Occupied Channel Bandwidth

Test Result

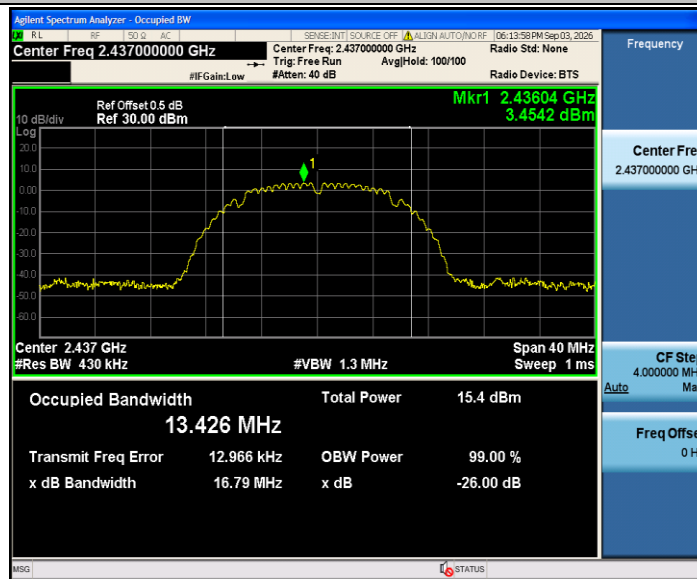
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.441	2405.2832	2418.7242	---	---
		2437	13.426	2430.3000	2443.7260	---	---
		2462	13.422	2455.3119	2468.7339	---	---
11G	Ant1	2412	16.808	2403.6099	2420.4179	---	---
		2437	16.878	2428.5718	2445.4498	---	---
		2462	16.871	2453.5877	2470.4587	---	---
11N20SISO	Ant1	2412	17.955	2403.0240	2420.9790	---	---
		2437	17.899	2428.0473	2445.9463	---	---
		2462	17.906	2453.0639	2470.9699	---	---
11N40SISO	Ant1	2422	36.099	2404.1341	2440.2331	---	---
		2437	36.035	2419.1206	2455.1556	---	---
		2452	36.111	2434.1084	2470.2194	---	---

Test Graphs

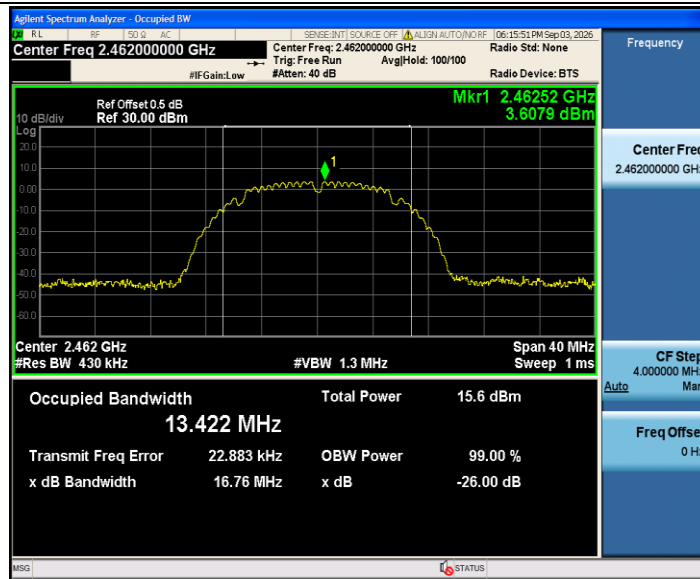
11B_Ant1_2412



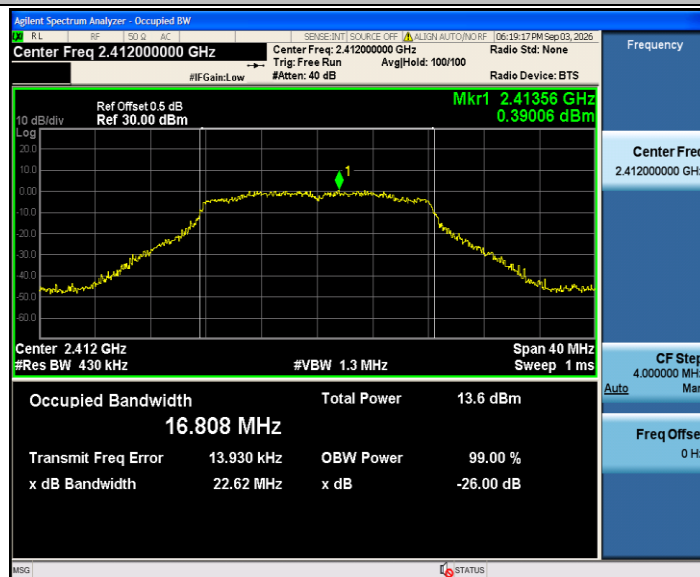
11B_Ant1_2437



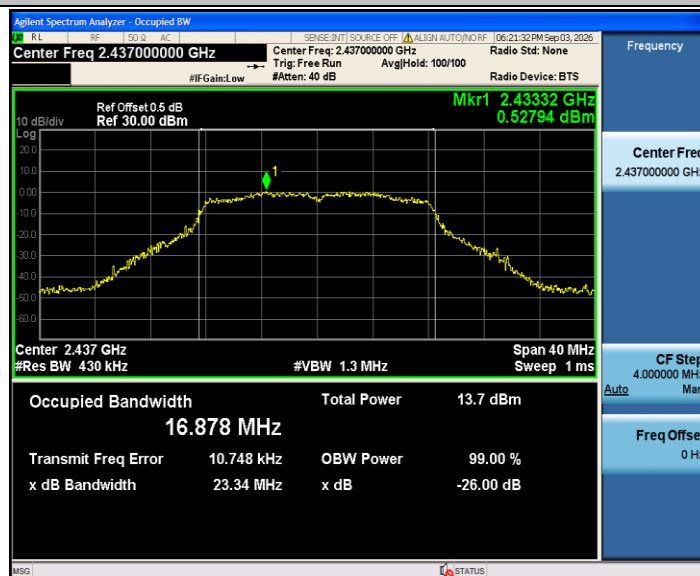
11B_Ant1_2462



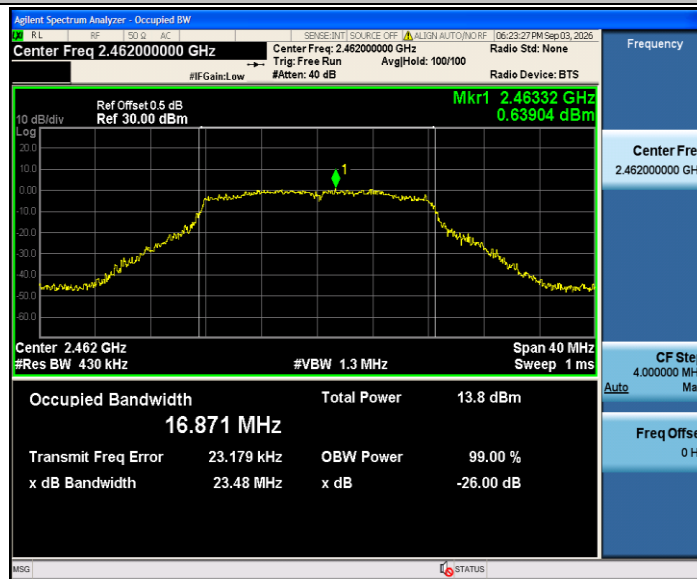
11G_Ant1_2412



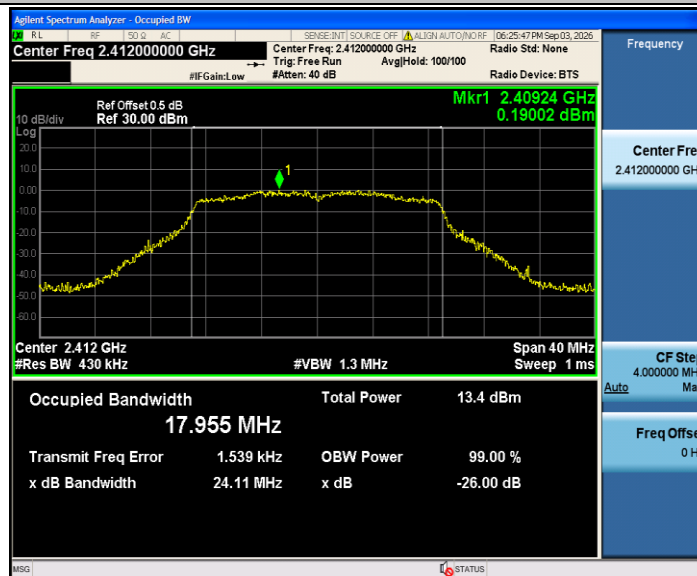
11G_Ant1_2437



11G_Ant1_2462



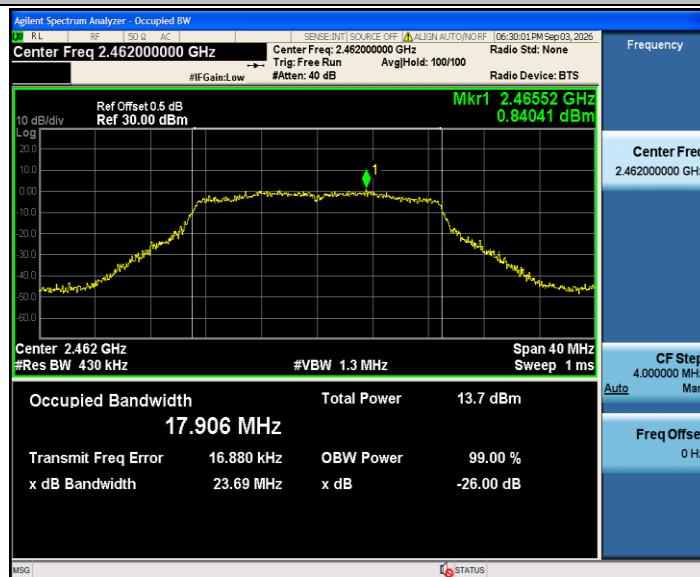
11N20SISO_Ant1_2412



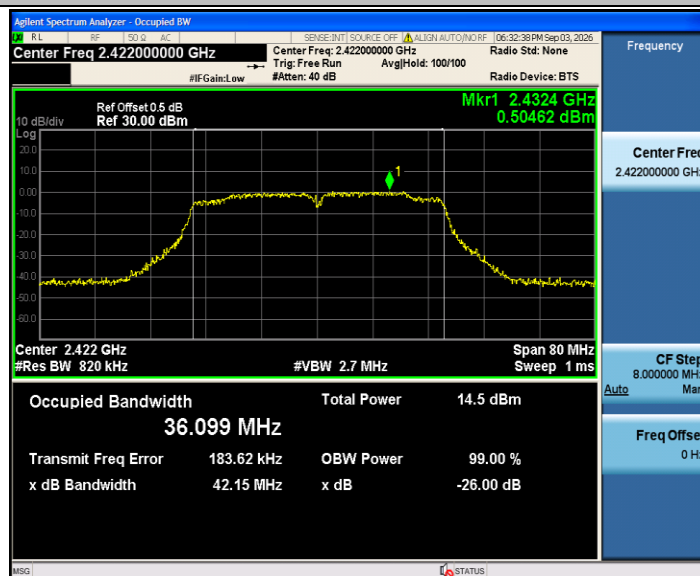
11N20SISO_Ant1_2437



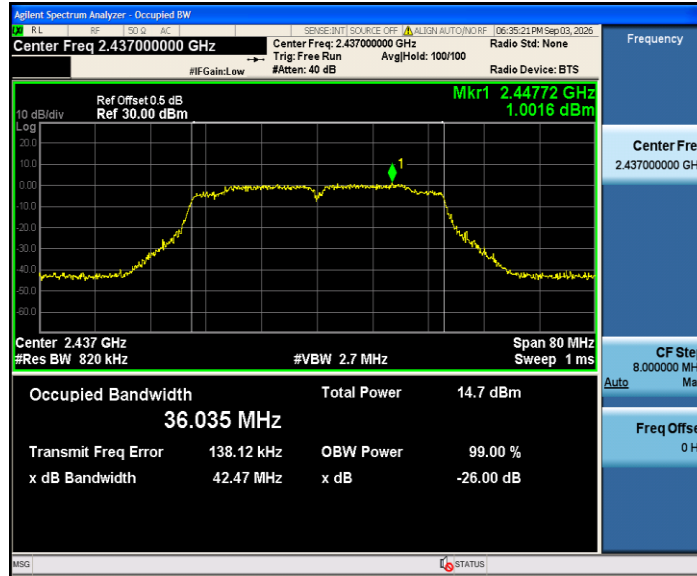
11N20SISO_Ant1_2462



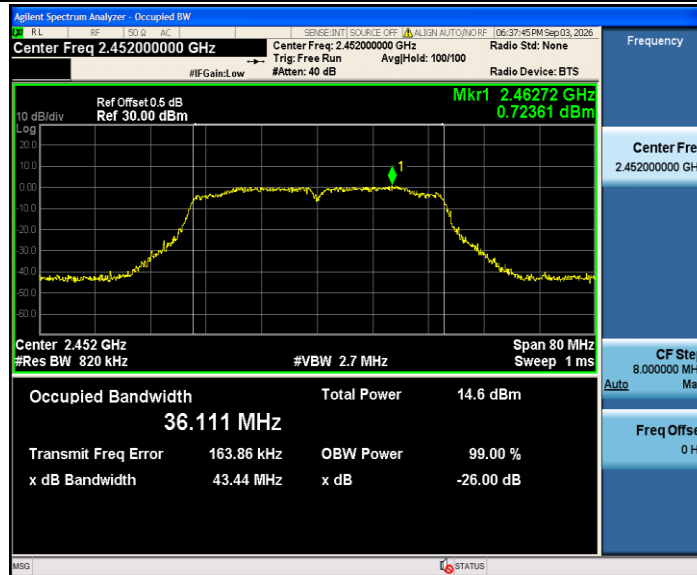
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.99	≤30.00	PASS
		2437	15.10	≤30.00	PASS
		2462	15.27	≤30.00	PASS
11G	Ant1	2412	14.32	≤30.00	PASS
		2437	14.42	≤30.00	PASS
		2462	14.75	≤30.00	PASS
11N20SISO	Ant1	2412	14.15	≤30.00	PASS
		2437	14.33	≤30.00	PASS
		2462	14.64	≤30.00	PASS
11N40SISO	Ant1	2422	14.67	≤30.00	PASS
		2437	14.81	≤30.00	PASS
		2452	14.87	≤30.00	PASS

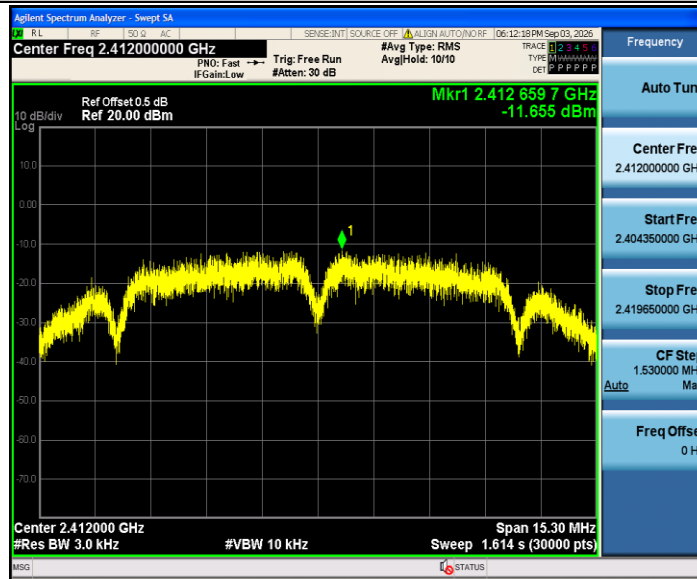
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.66	≤8.00	PASS
		2437	-10.59	≤8.00	PASS
		2462	-10.38	≤8.00	PASS
11G	Ant1	2412	-16.66	≤8.00	PASS
		2437	-16.97	≤8.00	PASS
		2462	-16.83	≤8.00	PASS
11N20SISO	Ant1	2412	-17.99	≤8.00	PASS
		2437	-17.16	≤8.00	PASS
		2462	-17.11	≤8.00	PASS
11N40SISO	Ant1	2422	-20.11	≤8.00	PASS
		2437	-20.44	≤8.00	PASS
		2452	-18.92	≤8.00	PASS

Test Graphs

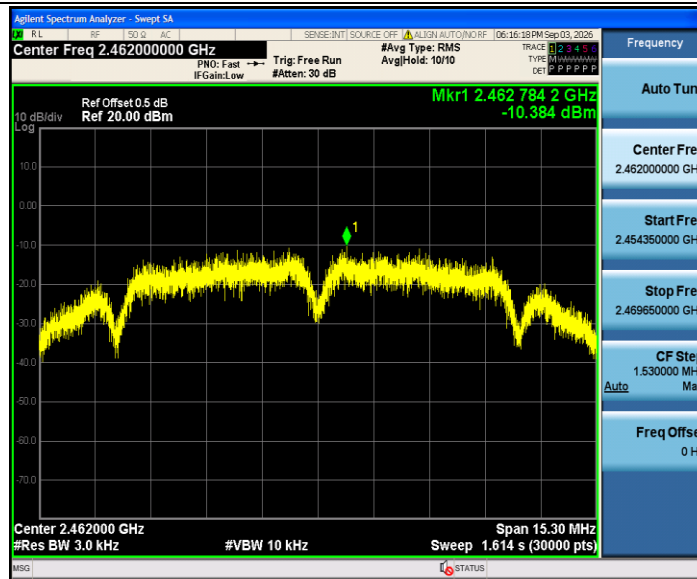
11B_Ant1_2412



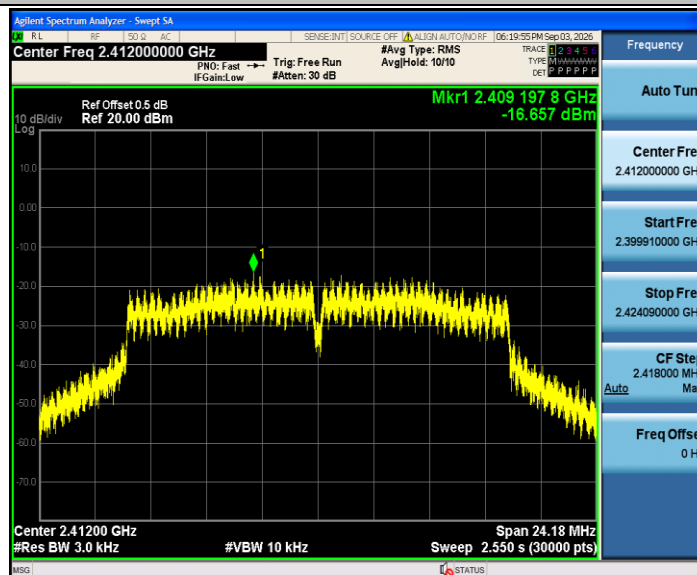
11B_Ant1_2437



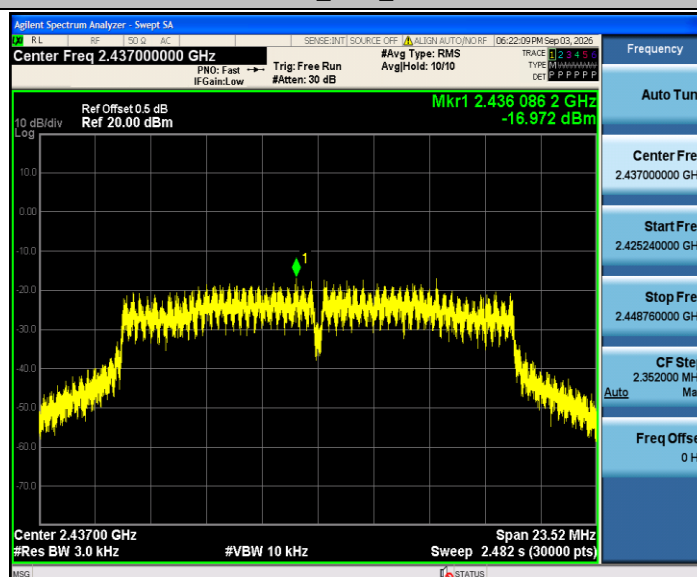
11B_Ant1_2462



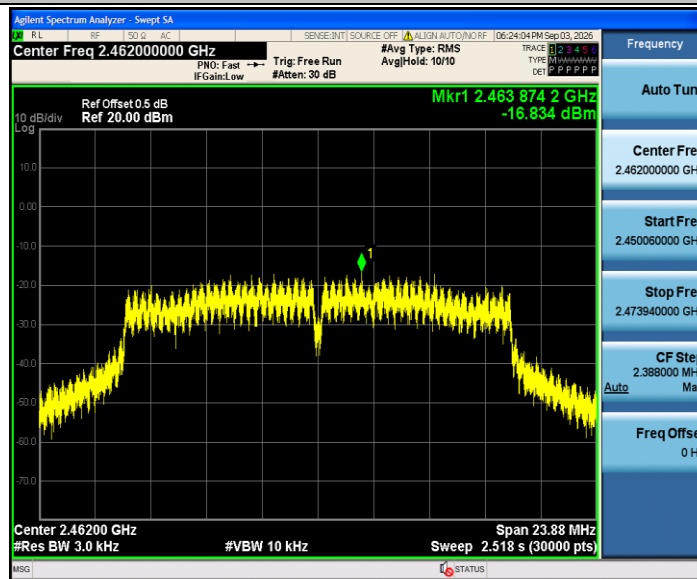
11G_Ant1_2412



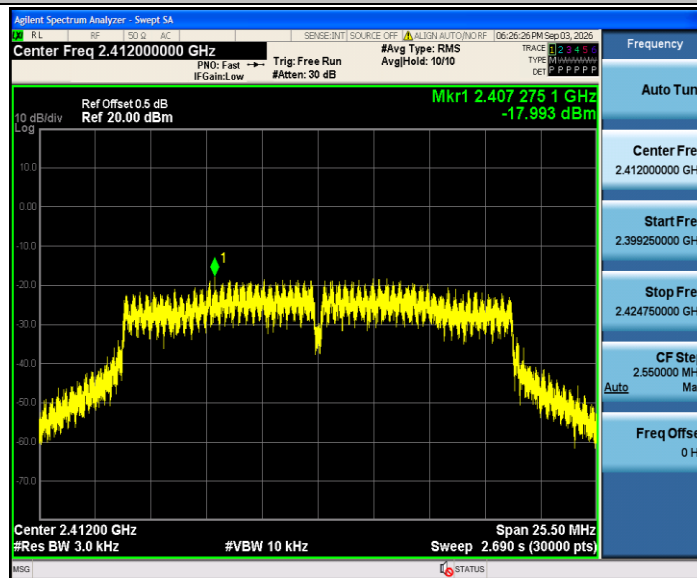
11G_Ant1_2437



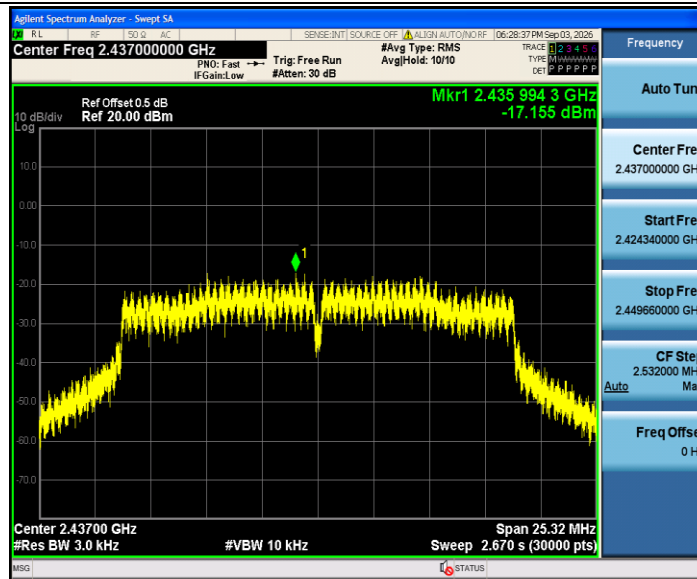
11G_Ant1_2462



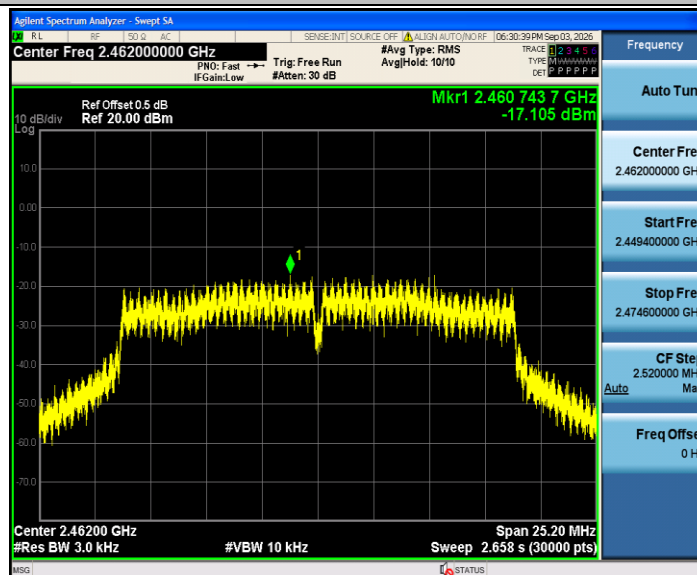
11N20SISO_Ant1_2412



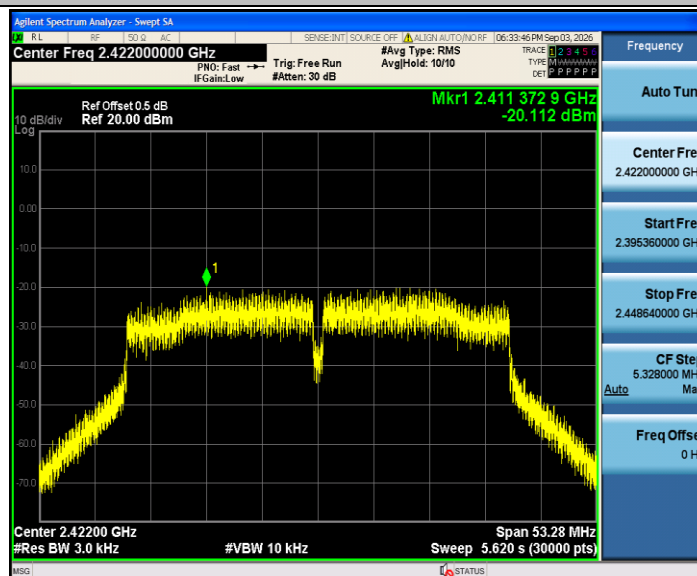
11N20SISO_Ant1_2437



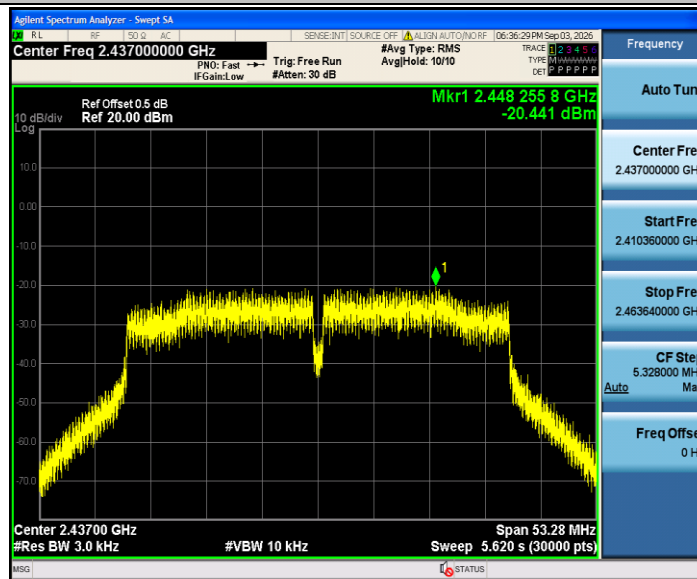
11N20SISO_Ant1_2462



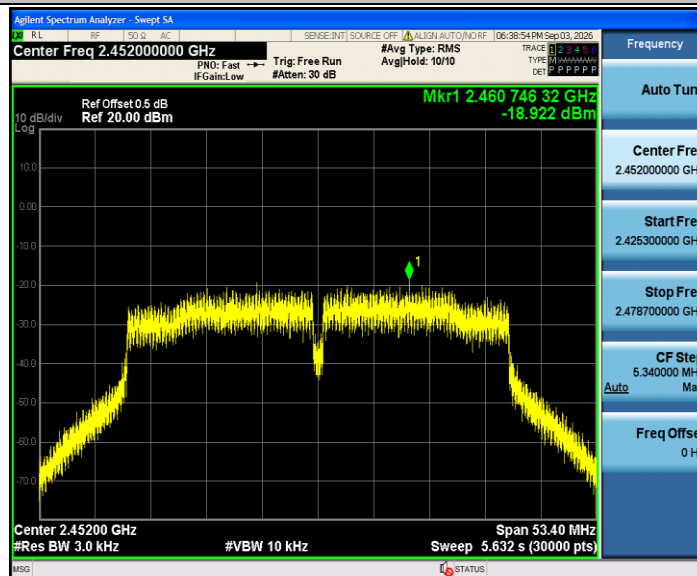
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



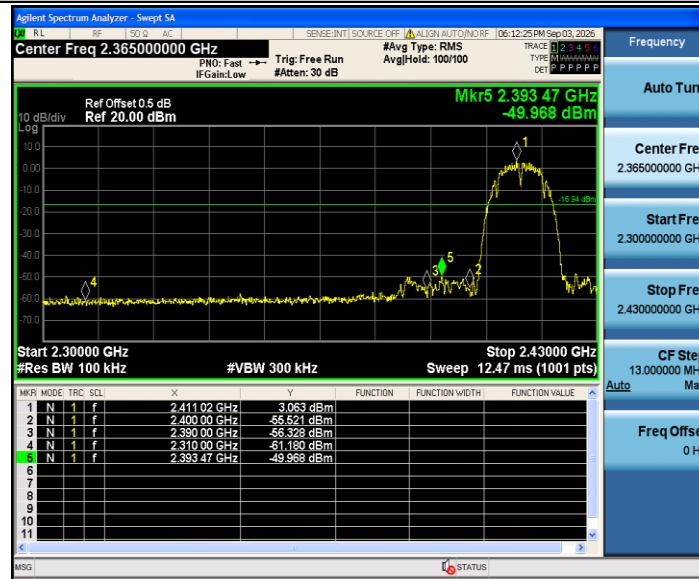
Appendix E: Band edge measurements

Test Result

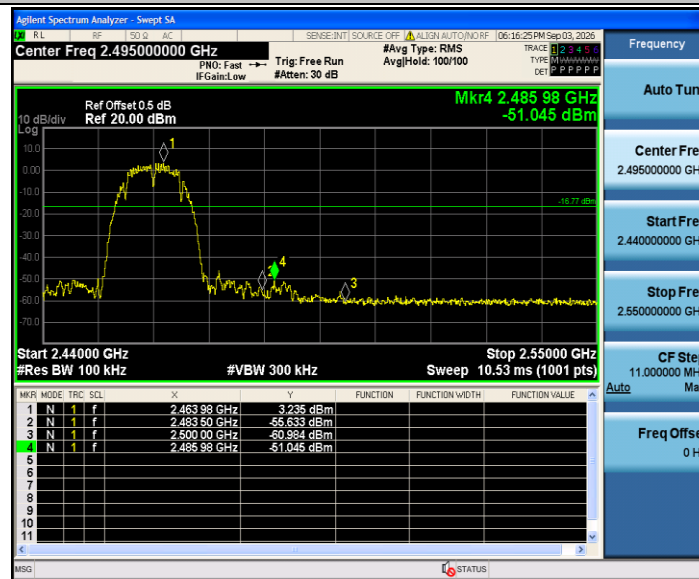
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.06	-49.97	≤-16.94	PASS
		High	2462	3.24	-51.05	≤-16.77	PASS
11G	Ant1	Low	2412	-2.61	-31.81	≤-22.61	PASS
		High	2462	-2.85	-58.04	≤-22.85	PASS
11N20SISO	Ant1	Low	2412	-2.56	-33.97	≤-22.56	PASS
		High	2462	-2.14	-57.98	≤-22.14	PASS
11N40SISO	Ant1	Low	2422	-5.79	-34.51	≤-25.79	PASS
		High	2452	-4.94	-58.07	≤-24.94	PASS

Test Graphs

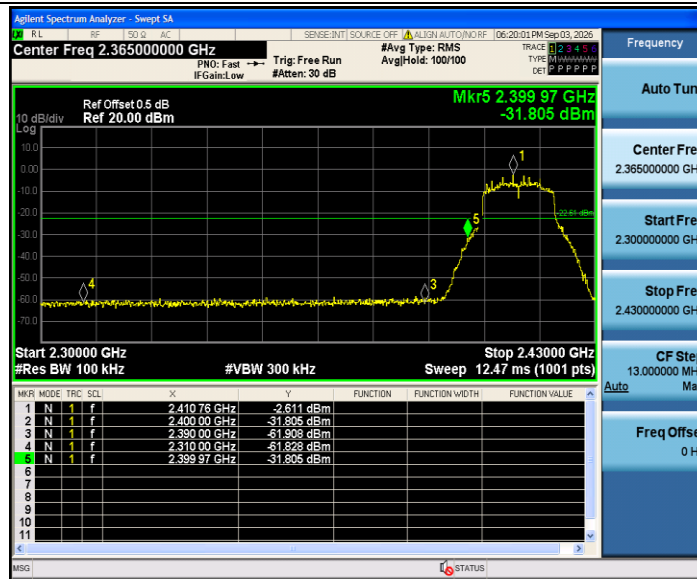
11B_Ant1_Low_2412



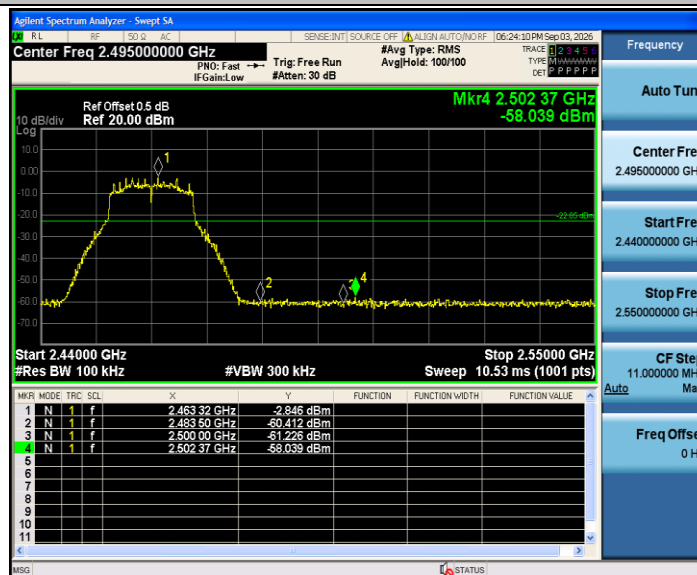
11B_Ant1_High_2462



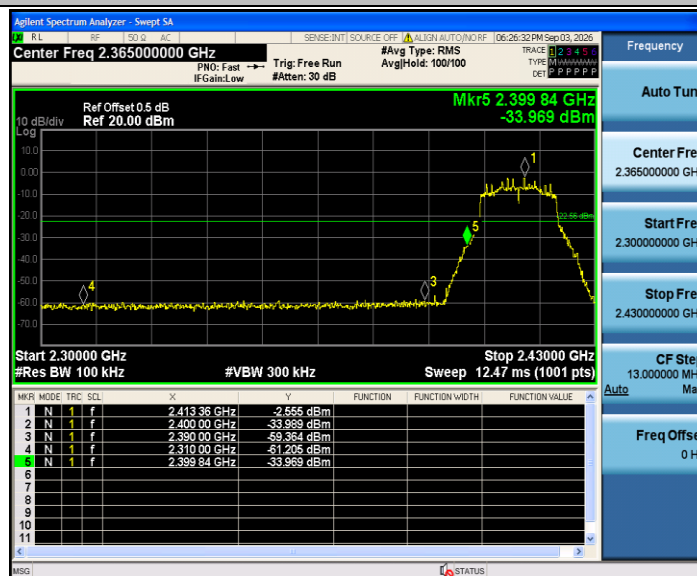
11G_Ant1_Low_2412



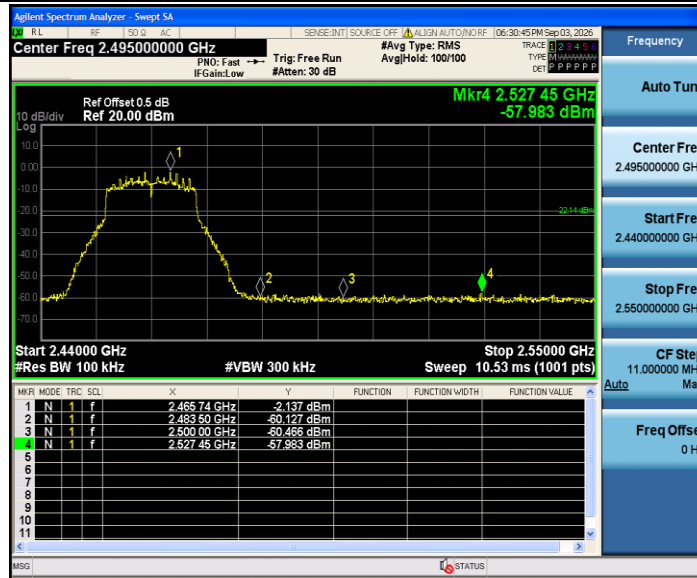
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



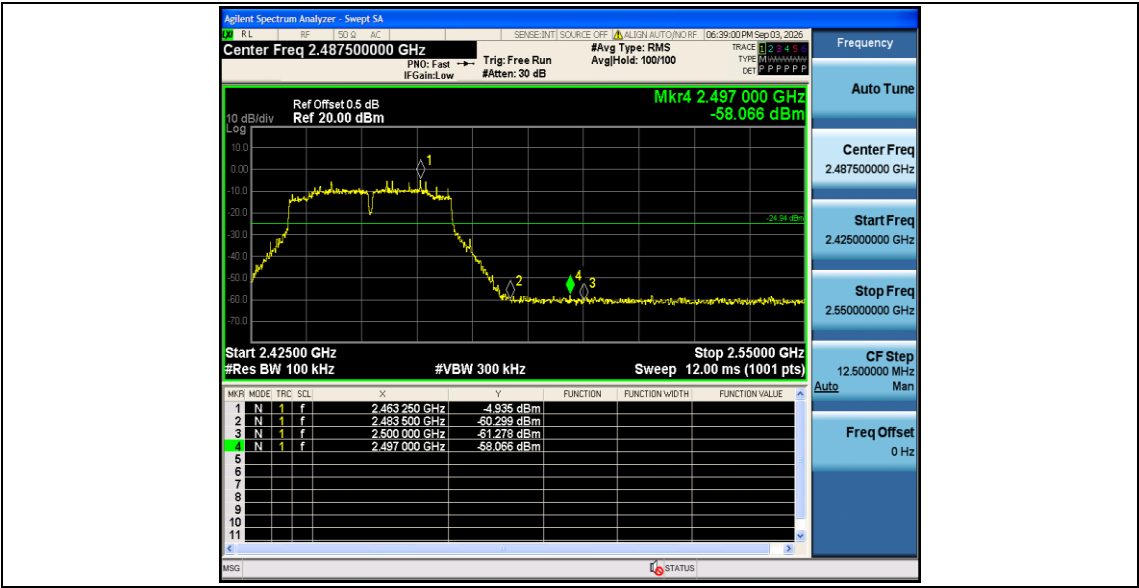
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

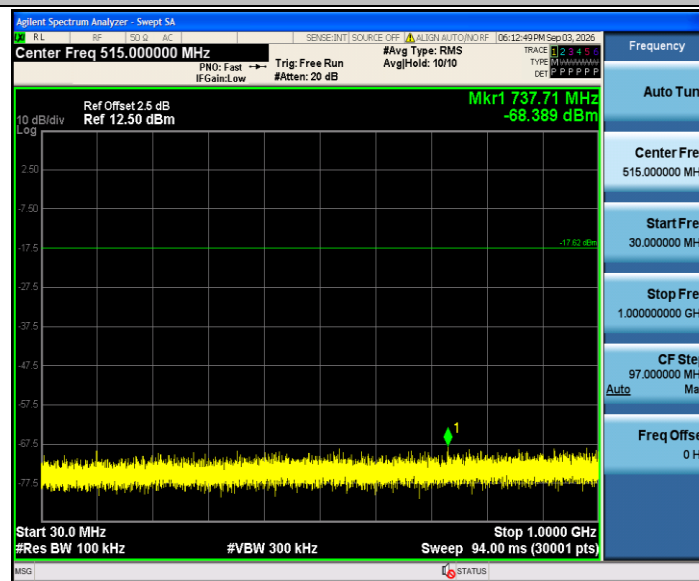
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.38	2.38	---	PASS
			30~1000	2.38	-68.39	≤-17.62	PASS
			1000~26500	2.38	-46.44	≤-17.62	PASS
		2437	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-67.47	≤-16.77	PASS
			1000~26500	3.23	-46.22	≤-16.77	PASS
		2462	Reference	2.21	2.21	---	PASS
			30~1000	2.21	-68.41	≤-17.79	PASS
			1000~26500	2.21	-46.87	≤-17.79	PASS
11G	Ant1	2412	Reference	-5.35	-5.35	---	PASS
			30~1000	-5.35	-67.11	≤-25.35	PASS
			1000~26500	-5.35	-46.65	≤-25.35	PASS
		2437	Reference	-2.91	-2.91	---	PASS
			30~1000	-2.91	-68.76	≤-22.91	PASS
			1000~26500	-2.91	-47.03	≤-22.91	PASS
		2462	Reference	-2.88	-2.88	---	PASS
			30~1000	-2.88	-68.86	≤-22.88	PASS
			1000~26500	-2.88	-46.9	≤-22.88	PASS
11N20SISO	Ant1	2412	Reference	-2.92	-2.92	---	PASS
			30~1000	-2.92	-68.09	≤-22.92	PASS
			1000~26500	-2.92	-46.68	≤-22.92	PASS
		2437	Reference	-2.32	-2.32	---	PASS
			30~1000	-2.32	-68.84	≤-22.32	PASS
			1000~26500	-2.32	-46.99	≤-22.32	PASS
		2462	Reference	-4.65	-4.65	---	PASS
			30~1000	-4.65	-68.64	≤-24.65	PASS
			1000~26500	-4.65	-45.76	≤-24.65	PASS
11N40SISO	Ant1	2422	Reference	-7.66	-7.66	---	PASS
			30~1000	-7.66	-68.08	≤-27.66	PASS
			1000~26500	-7.66	-46.9	≤-27.66	PASS
		2437	Reference	-7.28	-7.28	---	PASS
			30~1000	-7.28	-68.11	≤-27.28	PASS
			1000~26500	-7.28	-46.82	≤-27.28	PASS
		2452	Reference	-6.72	-6.72	---	PASS
			30~1000	-6.72	-68.45	≤-26.72	PASS
			1000~26500	-6.72	-46.4	≤-26.72	PASS

Test Graphs

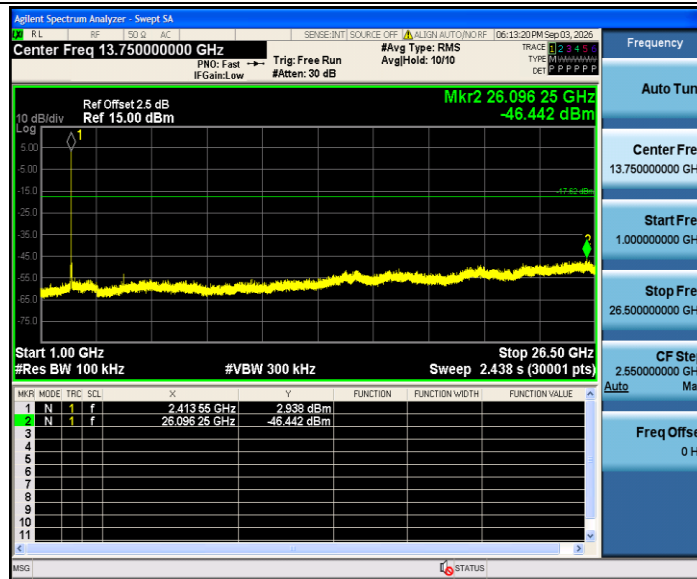
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



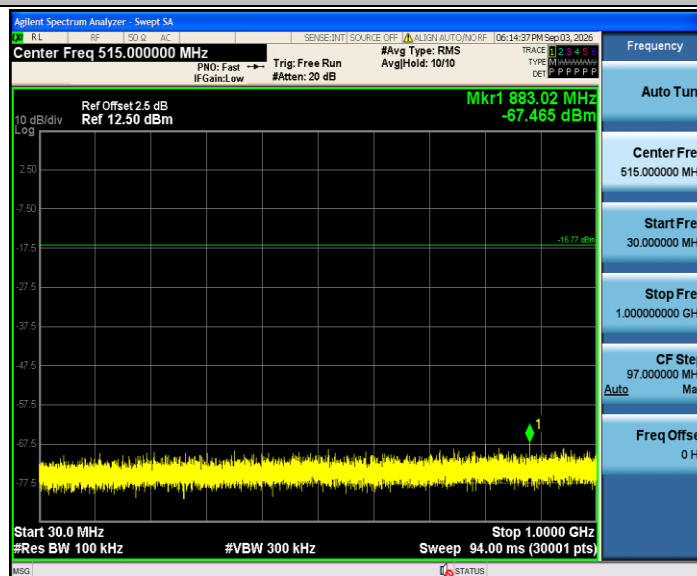
11B_Ant1_2412_1000~26500



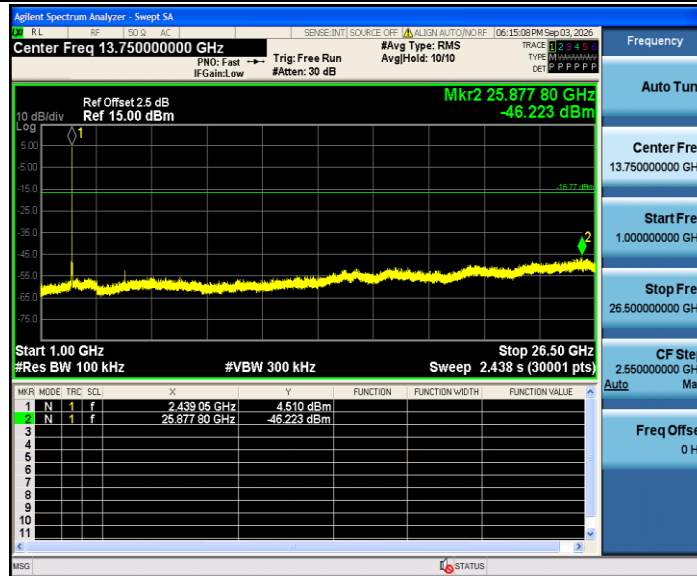
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



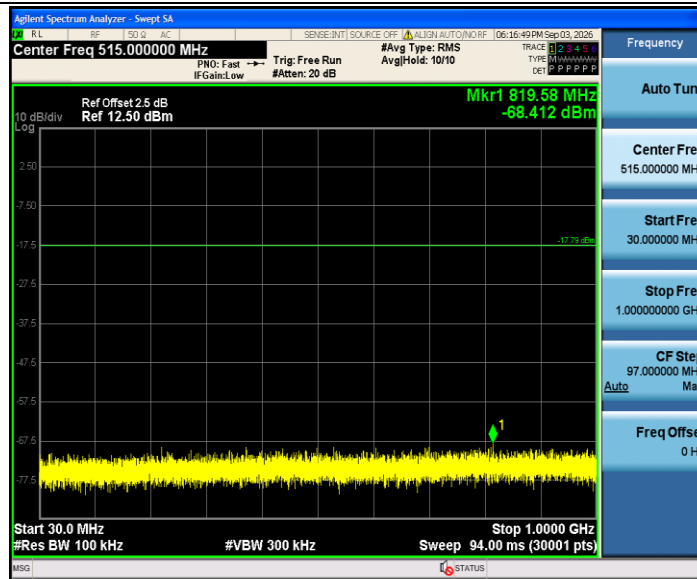
11B_Ant1_2437_1000~26500



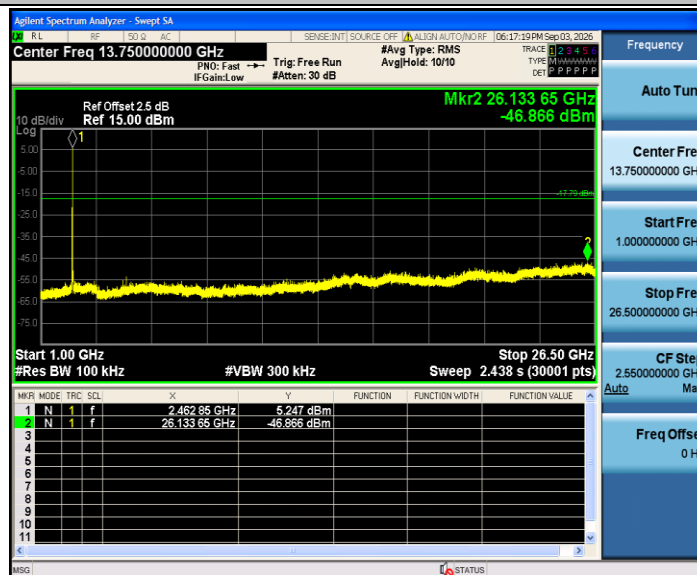
11B_Ant1_2462_0~Reference



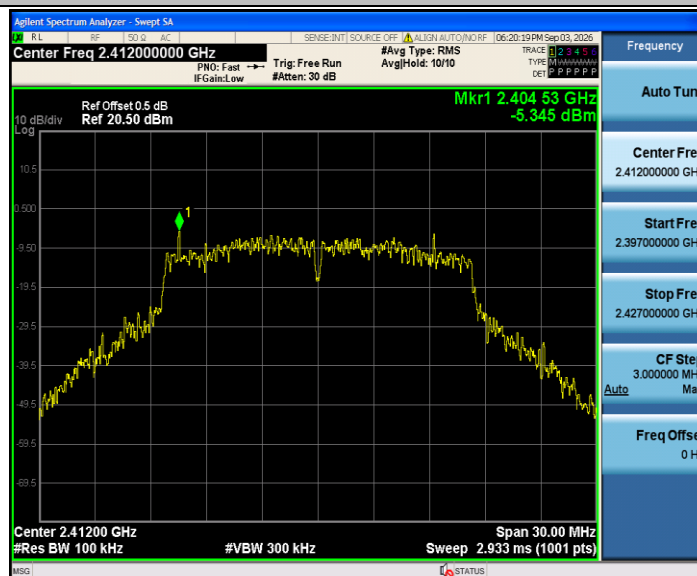
11B_Ant1_2462_30~1000



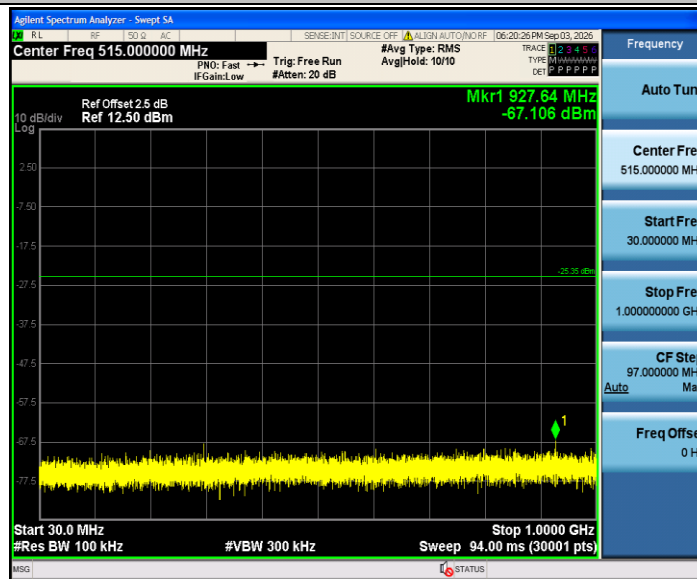
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



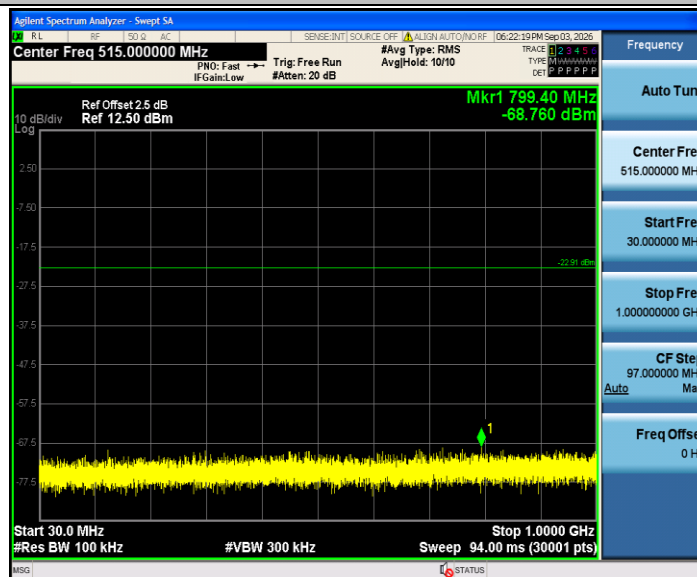
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



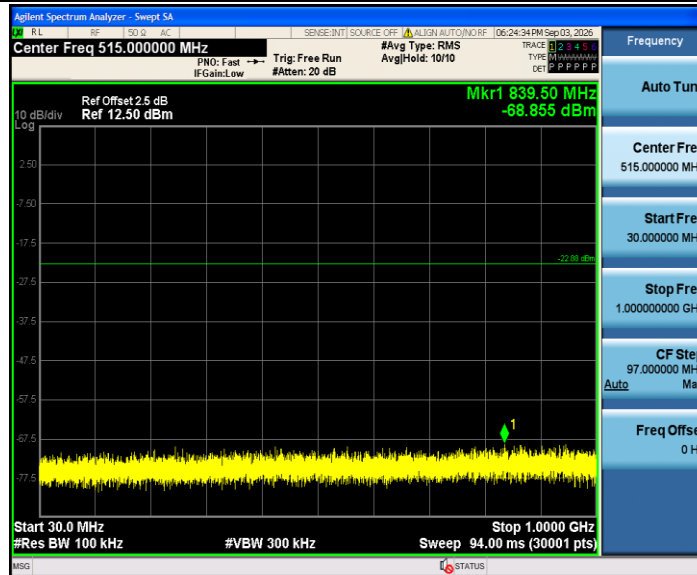
11G_Ant1_2437_1000~26500



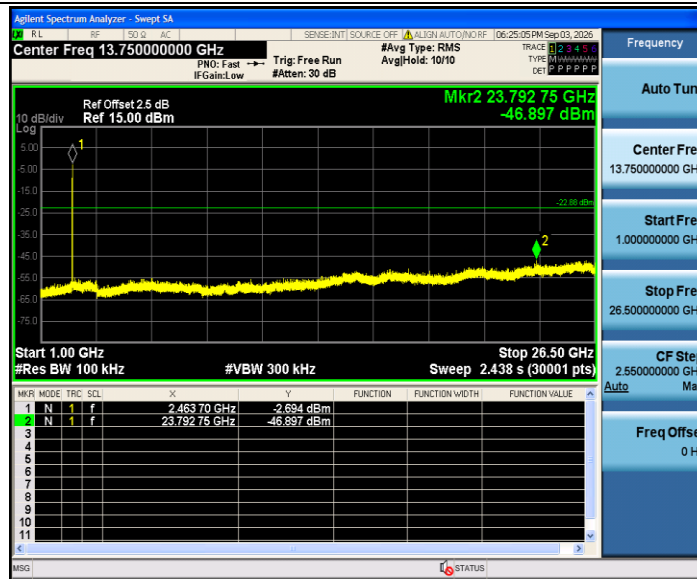
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

