

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BTTP-ZX3300

Company : Zxonic Technology, Inc.

EUT : SOUND LEVEL METER/ANALYZER

Model Number : ZX3300

Report No. : CTA25092602207

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	15.720	2404.280	2420.000	0.5	PASS
		2437	15.560	2429.440	2445.000	0.5	PASS
		2462	15.920	2454.040	2469.960	0.5	PASS
11N20SISO	Ant1	2412	16.800	2403.680	2420.480	0.5	PASS
		2437	16.240	2428.640	2444.880	0.5	PASS
		2462	16.440	2453.720	2470.160	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.160	2439.840	0.5	PASS
		2437	35.840	2419.240	2455.080	0.5	PASS
		2452	36.080	2434.000	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



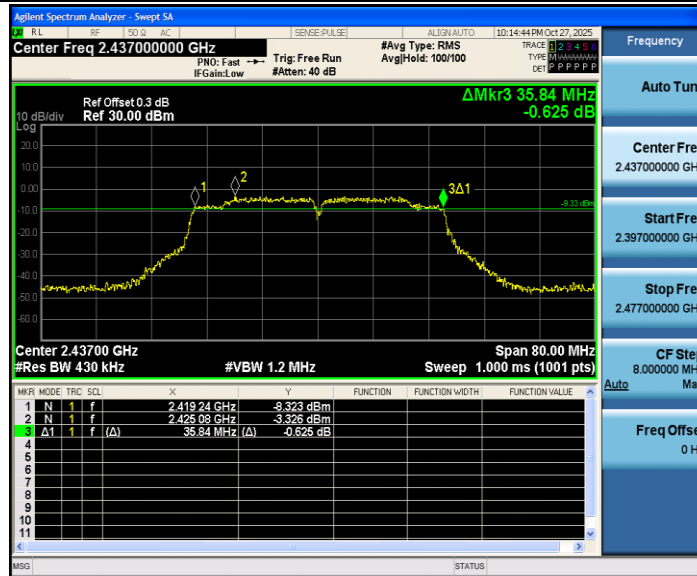
11N20SISO_Ant1_2462



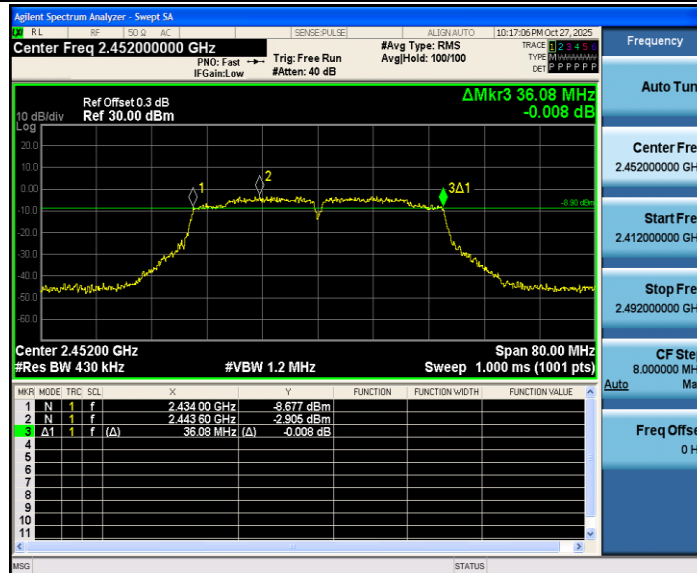
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



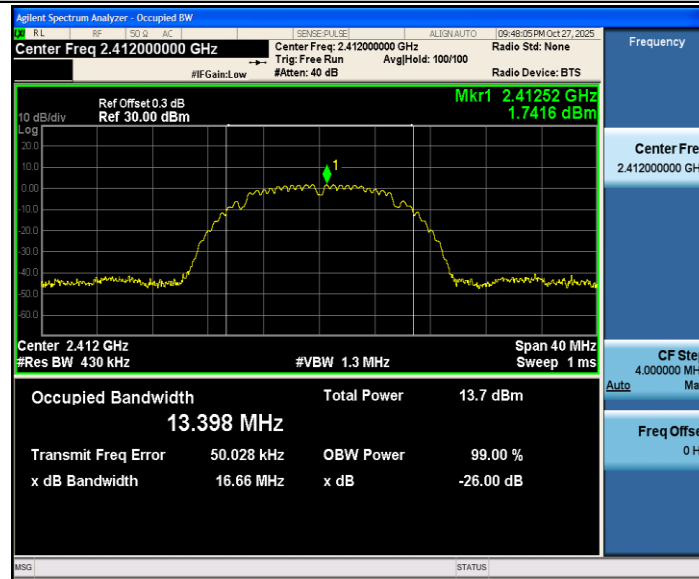
Appendix B: Occupied Channel Bandwidth

Test Result

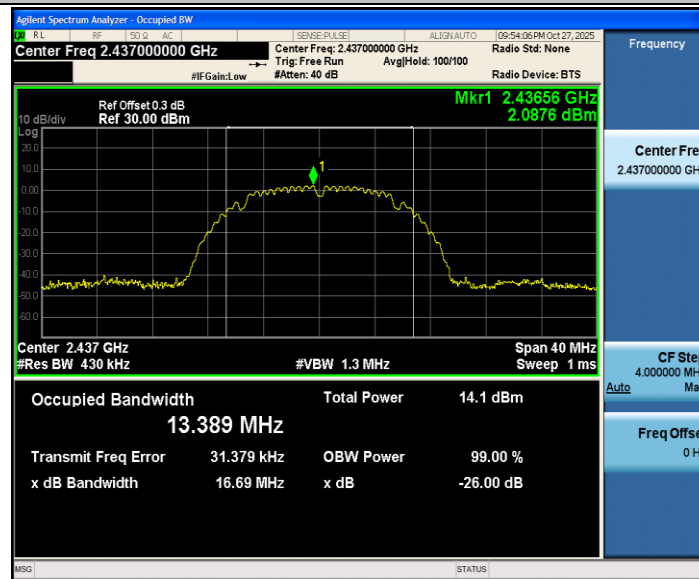
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.398	2405.3510	2418.7490	---	---
		2437	13.389	2430.3369	2443.7259	---	---
		2462	13.416	2455.3042	2468.7202	---	---
11G	Ant1	2412	16.892	2403.6229	2420.5149	---	---
		2437	16.806	2428.6718	2445.4778	---	---
		2462	16.872	2453.6159	2470.4879	---	---
11N20SISO	Ant1	2412	17.936	2403.0399	2420.9759	---	---
		2437	17.875	2428.1387	2446.0137	---	---
		2462	17.891	2453.0438	2470.9348	---	---
11N40SISO	Ant1	2422	35.998	2404.0700	2440.0680	---	---
		2437	36.000	2419.0862	2455.0862	---	---
		2452	36.048	2434.0695	2470.1175	---	---

Test Graphs

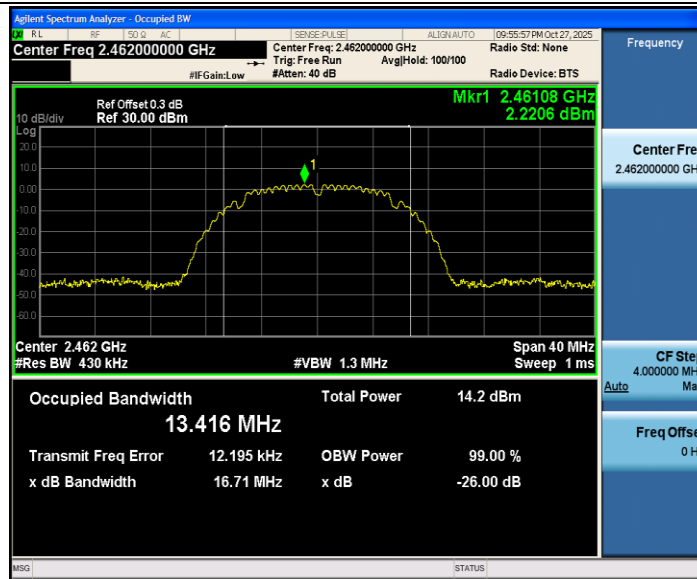
11B_Ant1_2412



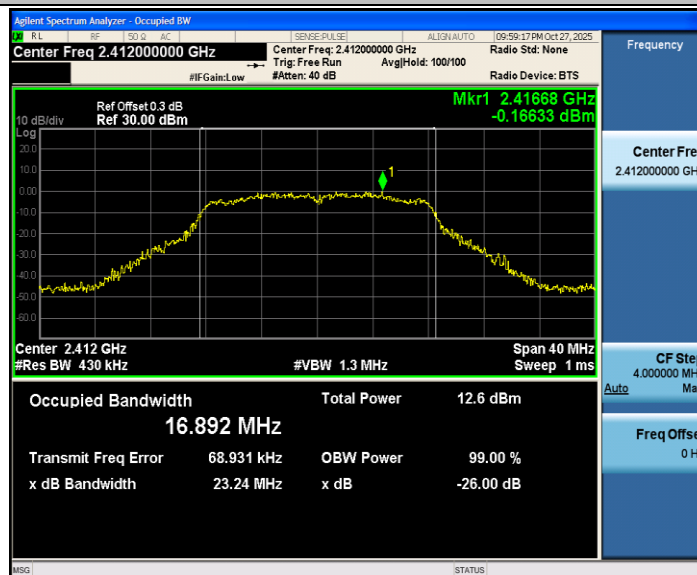
11B_Ant1_2437



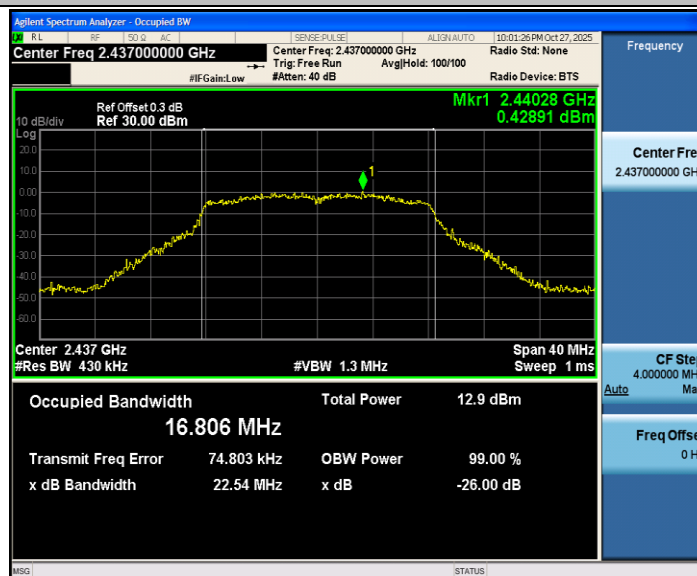
11B_Ant1_2462



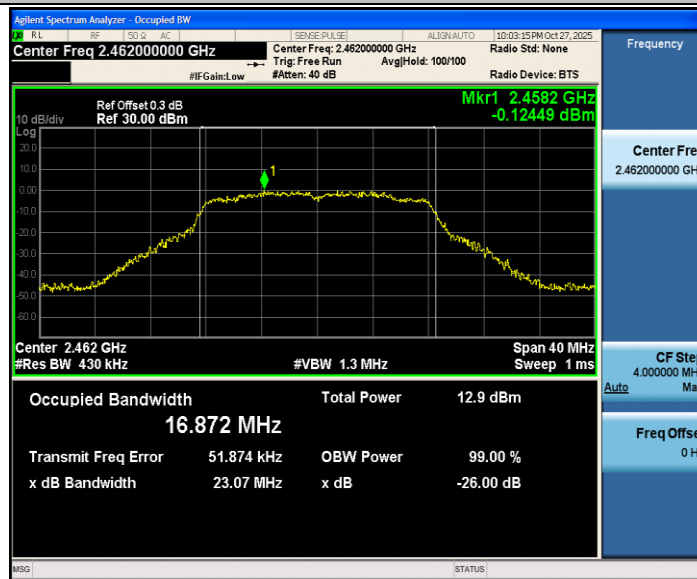
11G_Ant1_2412



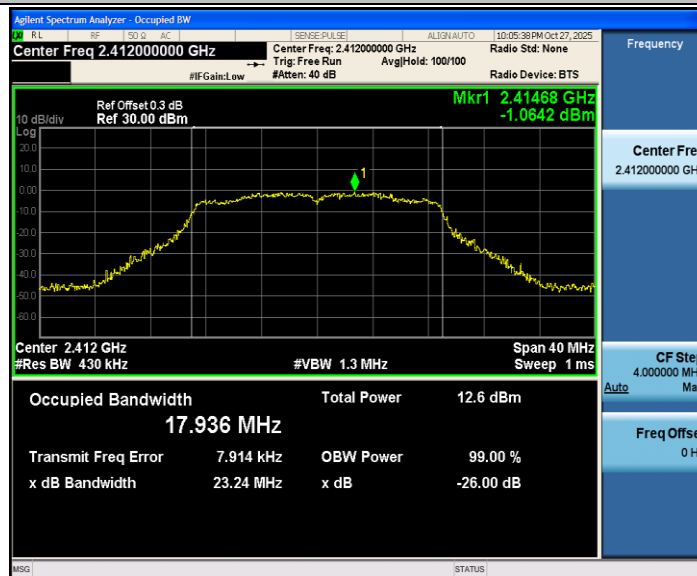
11G_Ant1_2437



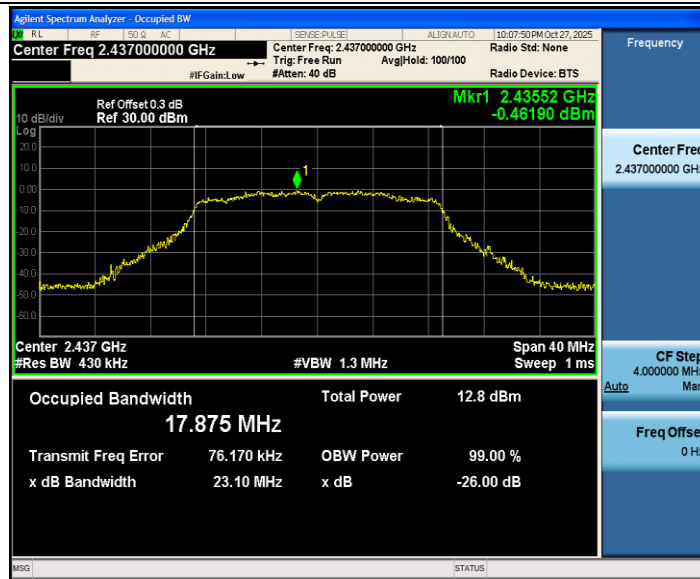
11G_Ant1_2462



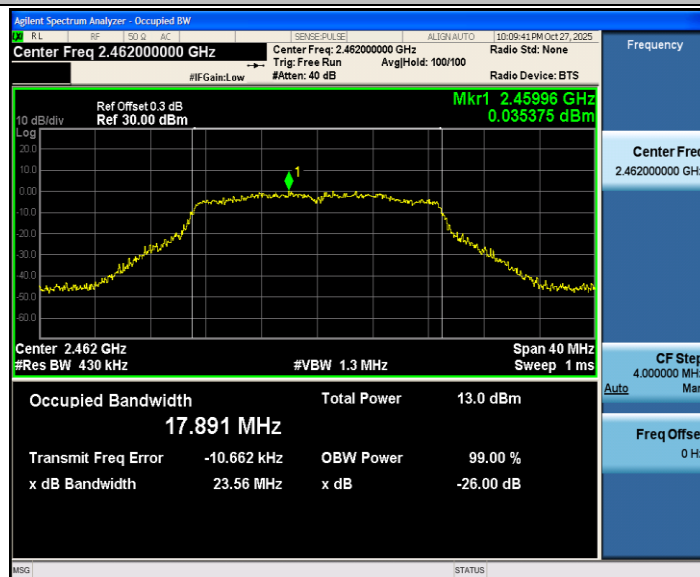
11N20SISO_Ant1_2412



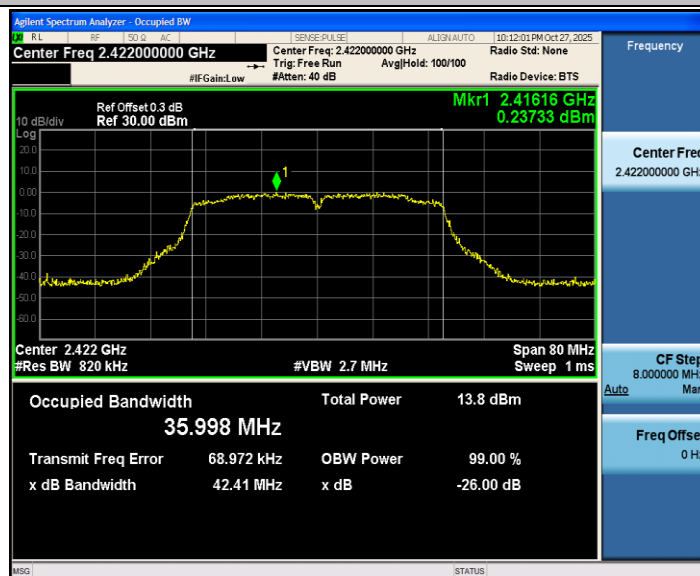
11N20SISO_Ant1_2437



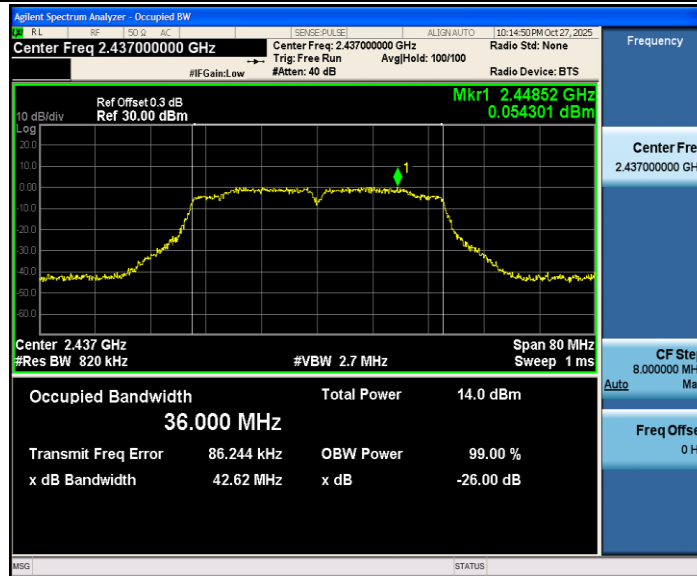
11N20SISO_Ant1_2462



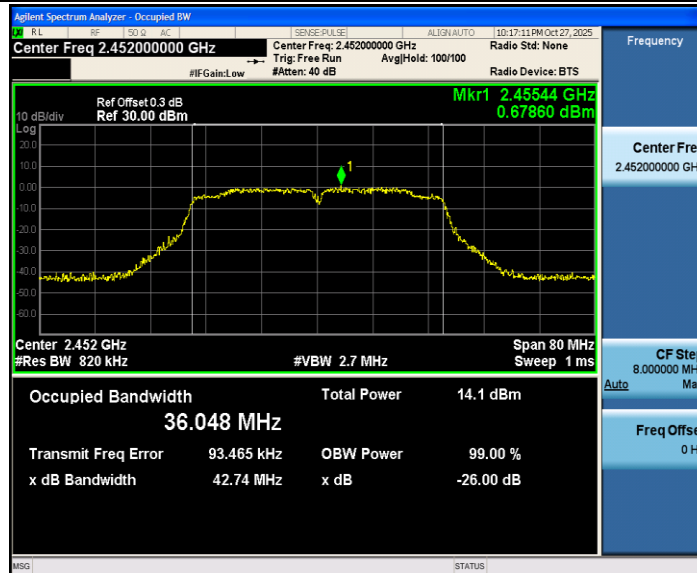
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.39	≤30.00	PASS
		2437	13.62	≤30.00	PASS
		2462	13.95	≤30.00	PASS
11G	Ant1	2412	13.50	≤30.00	PASS
		2437	13.73	≤30.00	PASS
		2462	13.89	≤30.00	PASS
11N20SISO	Ant1	2412	13.51	≤30.00	PASS
		2437	13.61	≤30.00	PASS
		2462	13.80	≤30.00	PASS
11N40SISO	Ant1	2422	13.90	≤30.00	PASS
		2437	13.45	≤30.00	PASS
		2452	13.28	≤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	-12.78	≤8.00	PASS
		2437	-12.28	≤8.00	PASS
		2462	-12.26	≤8.00	PASS
11G	Ant1	2412	-18.09	≤8.00	PASS
		2437	-17.82	≤8.00	PASS
		2462	-16.63	≤8.00	PASS
11N20SISO	Ant1	2412	-18.89	≤8.00	PASS
		2437	-17.29	≤8.00	PASS
		2462	-17.65	≤8.00	PASS
11N40SISO	Ant1	2422	-19.89	≤8.00	PASS
		2437	-19.62	≤8.00	PASS
		2452	-19.62	≤8.00	PASS

Test Graphs

11B_Ant1_2412



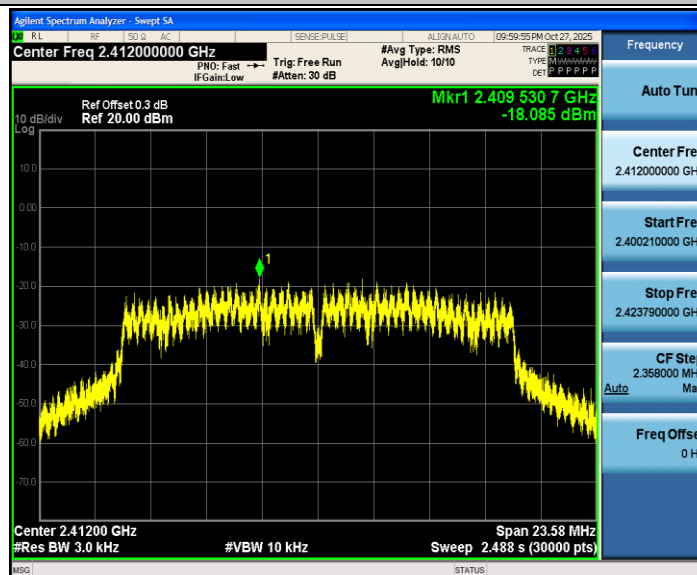
11B_Ant1_2437



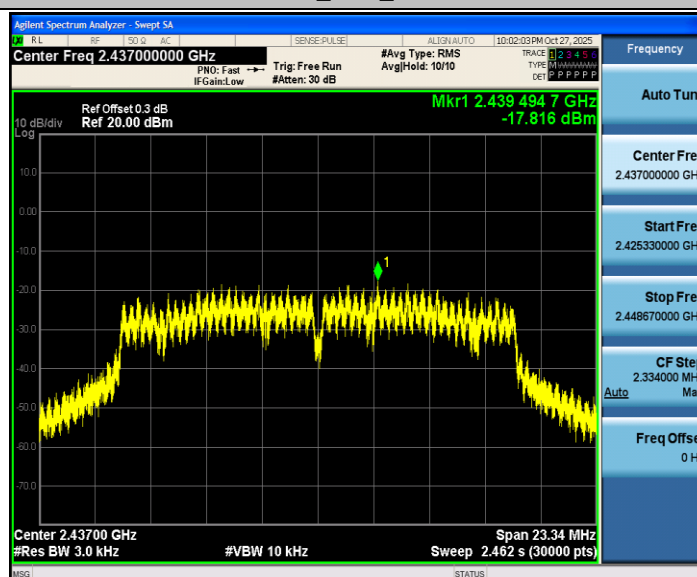
11B_Ant1_2462



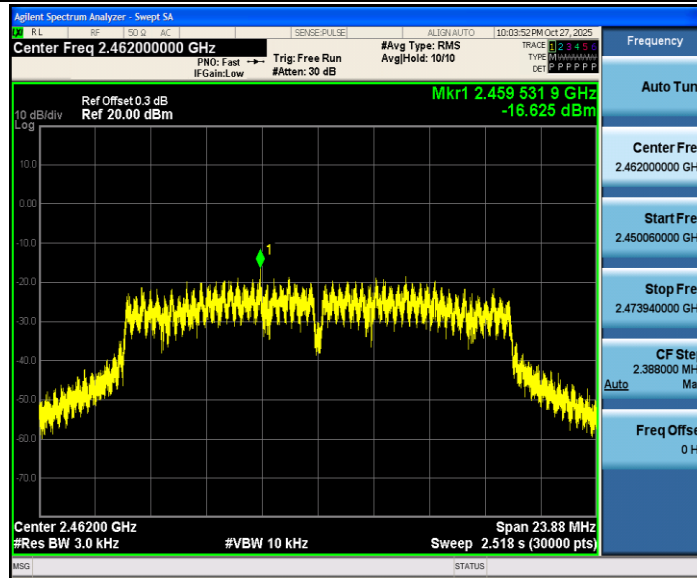
11G_Ant1_2412



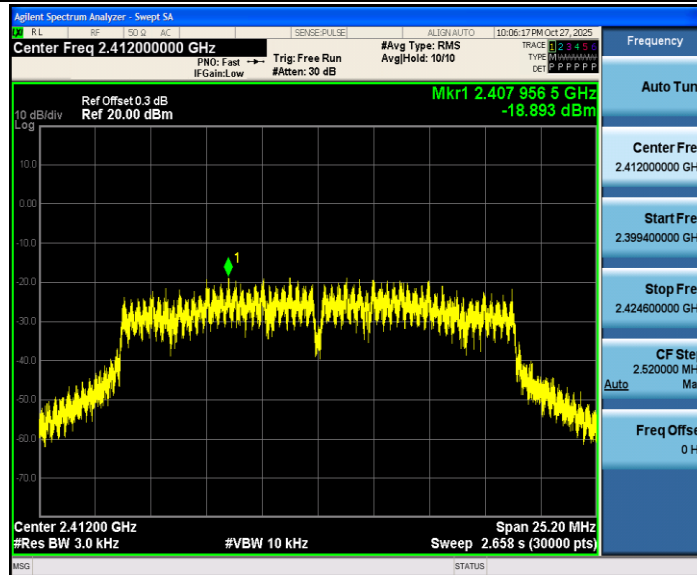
11G_Ant1_2437



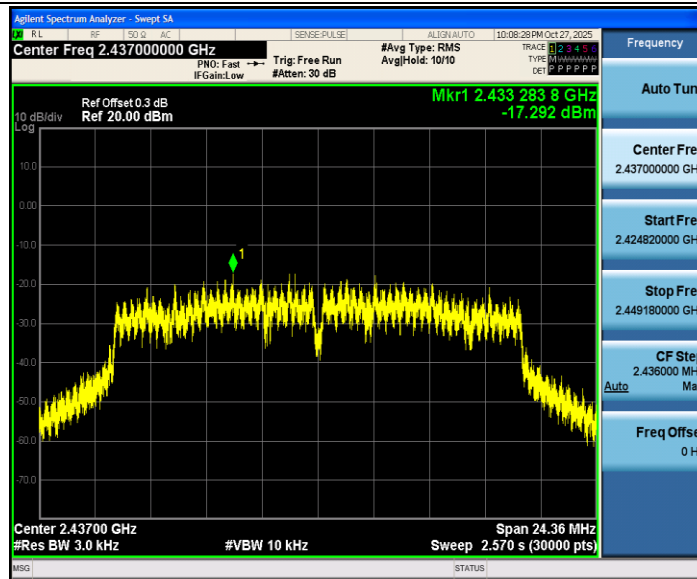
11G_Ant1_2462



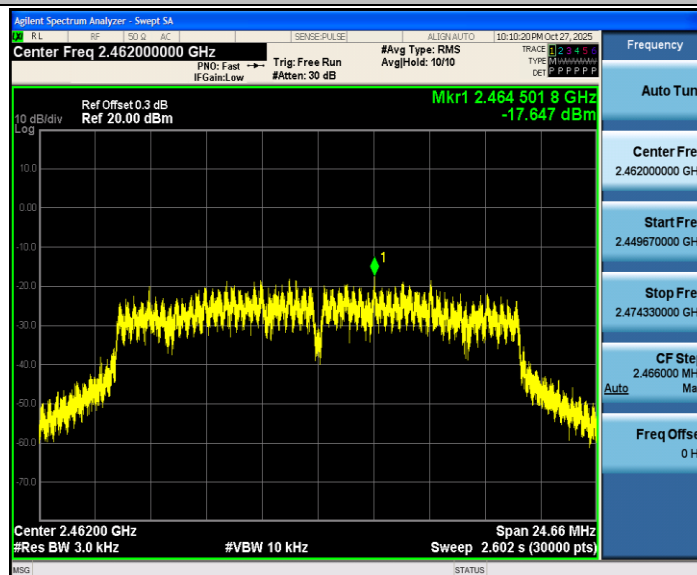
11N20SISO_Ant1_2412



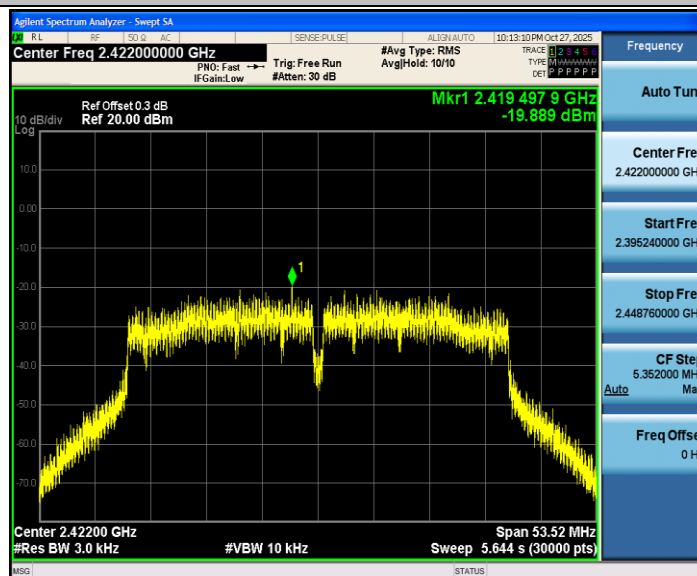
11N20SISO_Ant1_2437



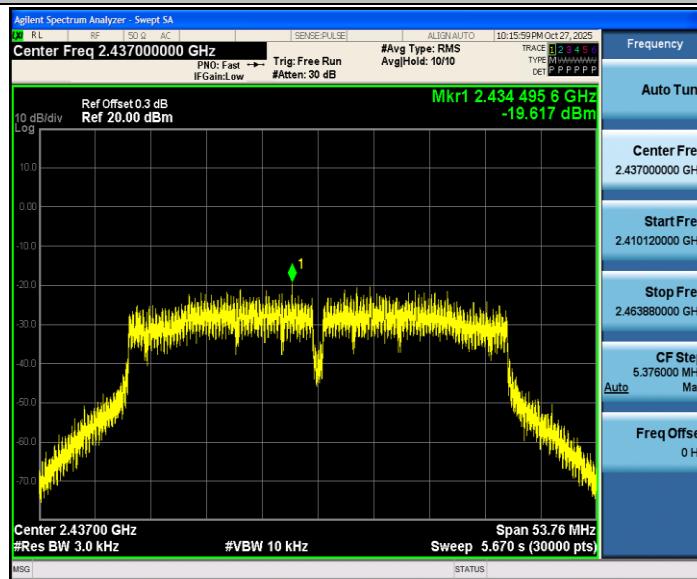
11N20SISO_Ant1_2462



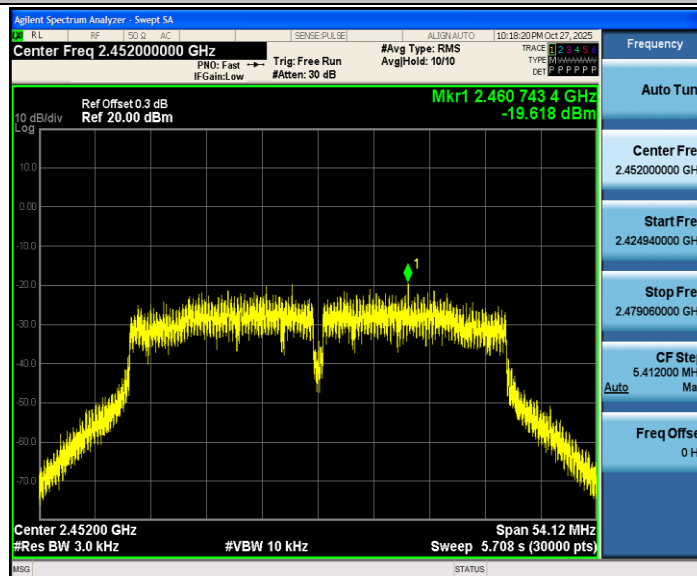
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



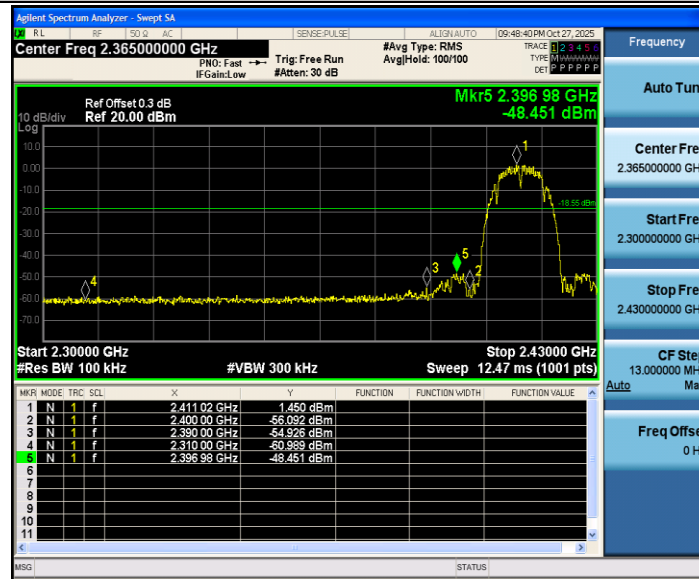
Appendix E: Band edge measurements

Test Result

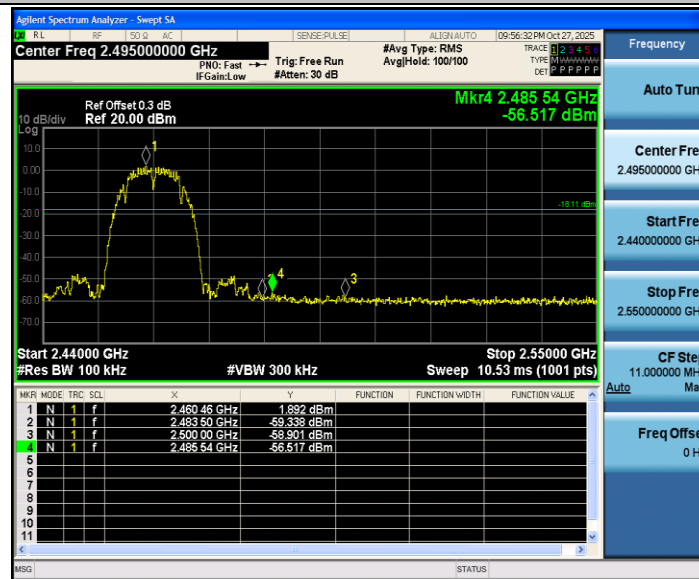
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.45	-48.45	≤-18.55	PASS
		High	2462	1.89	-56.52	≤-18.11	PASS
11G	Ant1	Low	2412	-3.47	-35.09	≤-23.47	PASS
		High	2462	-2.59	-55.14	≤-22.59	PASS
11N20SISO	Ant1	Low	2412	-3.03	-33.68	≤-23.03	PASS
		High	2462	-2.79	-58	≤-22.79	PASS
11N40SISO	Ant1	Low	2422	-6.17	-33.85	≤-26.17	PASS
		High	2452	-5.75	-55.14	≤-25.75	PASS

Test Graphs

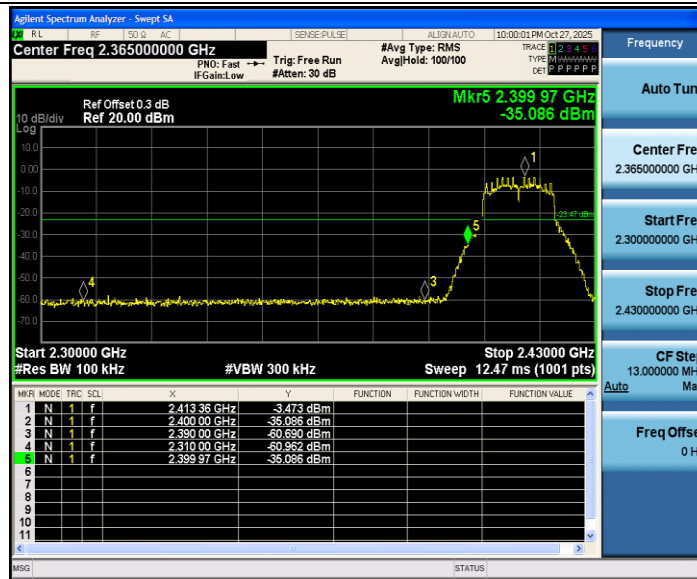
11B_Ant1_Low_2412



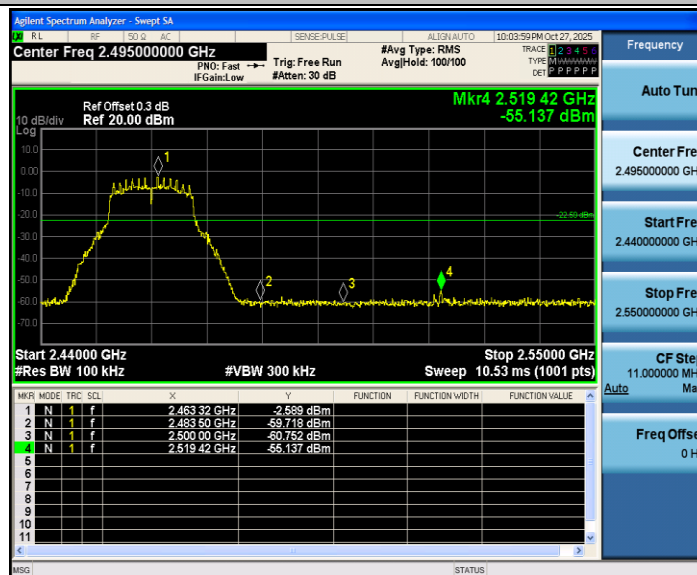
11B_Ant1_High_2462



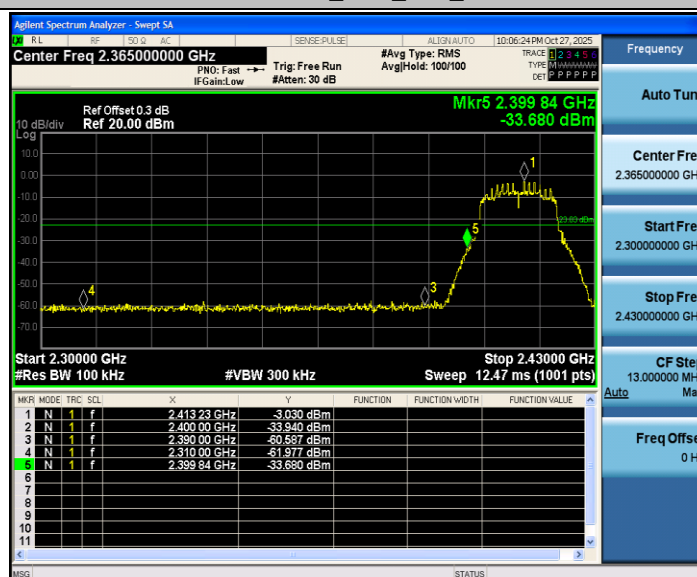
11G_Ant1_Low_2412



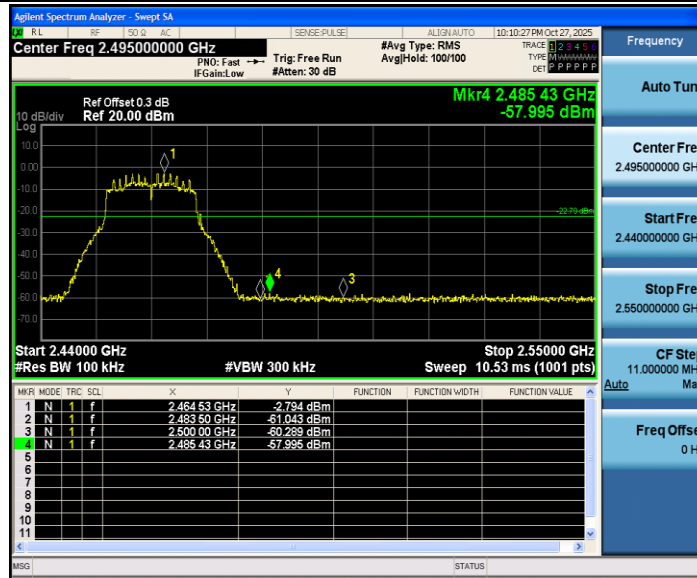
11G_Ant1_High_2462



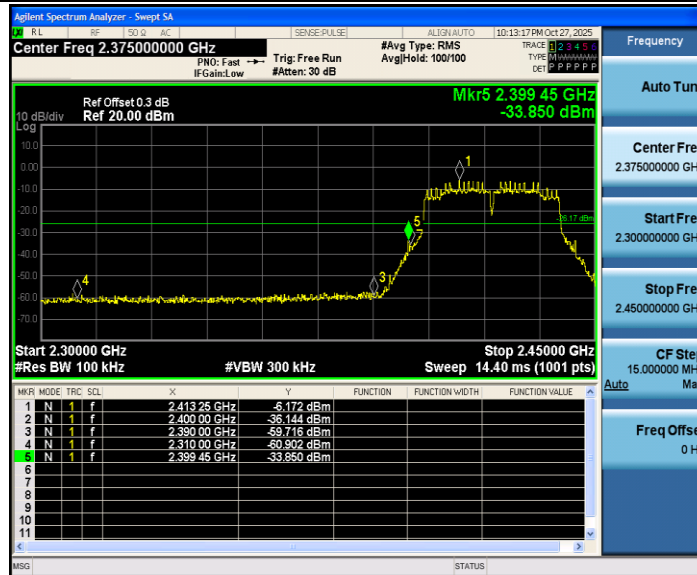
11N20SISO_Ant1_Low_2412



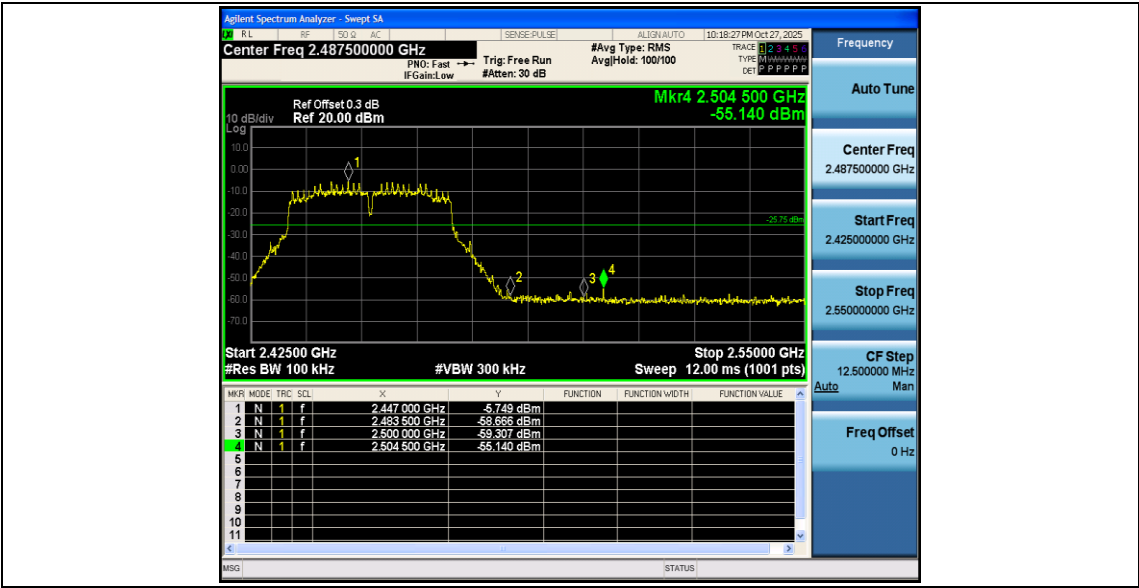
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

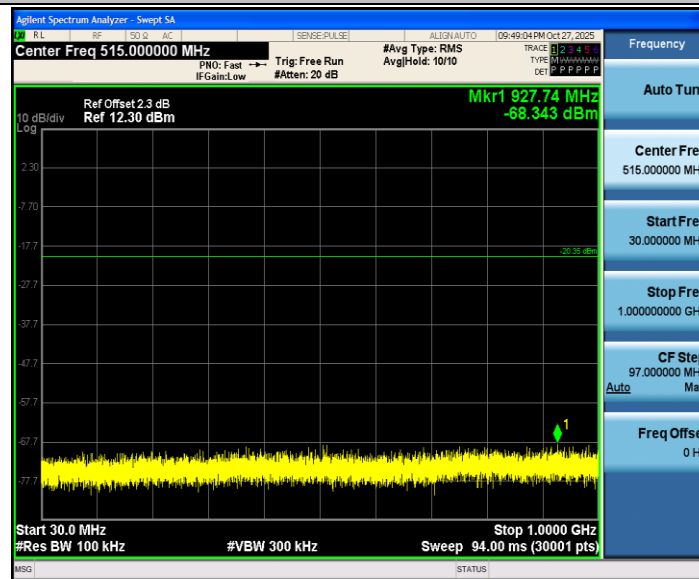
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-68.34	≤-20.35	PASS
			1000~26500	-0.35	-56.01	≤-20.35	PASS
		2437	Reference	0.64	0.64	---	PASS
			30~1000	0.64	-67.7	≤-19.36	PASS
			1000~26500	0.64	-55.16	≤-19.36	PASS
		2462	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-68.31	≤-19.66	PASS
			1000~26500	0.34	-55.16	≤-19.66	PASS
11G	Ant1	2412	Reference	-3.28	-3.28	---	PASS
			30~1000	-3.28	-67.88	≤-23.28	PASS
			1000~26500	-3.28	-55.48	≤-23.28	PASS
		2437	Reference	-3.51	-3.51	---	PASS
			30~1000	-3.51	-68.05	≤-23.51	PASS
			1000~26500	-3.51	-55.04	≤-23.51	PASS
		2462	Reference	-3.01	-3.01	---	PASS
			30~1000	-3.01	-67.02	≤-23.01	PASS
			1000~26500	-3.01	-55.54	≤-23.01	PASS
11N20SISO	Ant1	2412	Reference	-3.22	-3.22	---	PASS
			30~1000	-3.22	-67.78	≤-23.22	PASS
			1000~26500	-3.22	-55.67	≤-23.22	PASS
		2437	Reference	-2.92	-2.92	---	PASS
			30~1000	-2.92	-68.01	≤-22.92	PASS
			1000~26500	-2.92	-54.65	≤-22.92	PASS
		2462	Reference	-3.10	-3.10	---	PASS
			30~1000	-3.10	-68.6	≤-23.1	PASS
			1000~26500	-3.10	-55.88	≤-23.1	PASS
11N40SISO	Ant1	2422	Reference	-6.82	-6.82	---	PASS
			30~1000	-6.82	-68.24	≤-26.82	PASS
			1000~26500	-6.82	-55.41	≤-26.82	PASS
		2437	Reference	-6.09	-6.09	---	PASS
			30~1000	-6.09	-68.09	≤-26.09	PASS
			1000~26500	-6.09	-55.37	≤-26.09	PASS
		2452	Reference	-6.48	-6.48	---	PASS
			30~1000	-6.48	-44.5	≤-26.48	PASS
			1000~26500	-6.48	-55.53	≤-26.48	PASS

Test Graphs

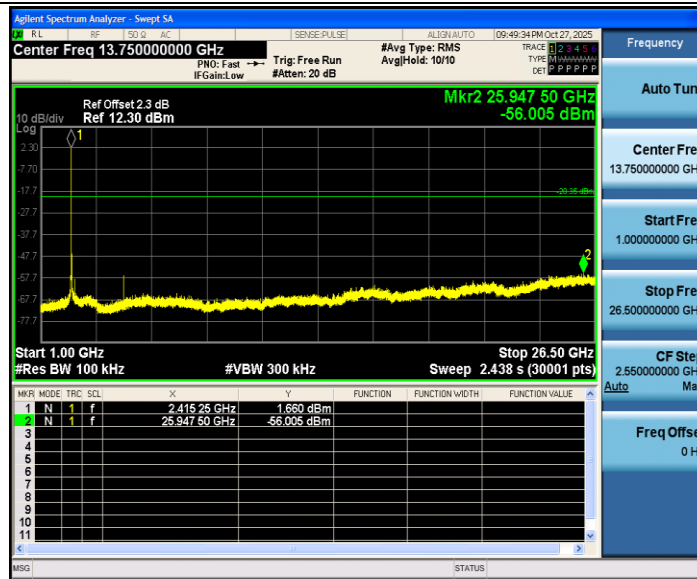
11B_Ant1_2412_0~Reference



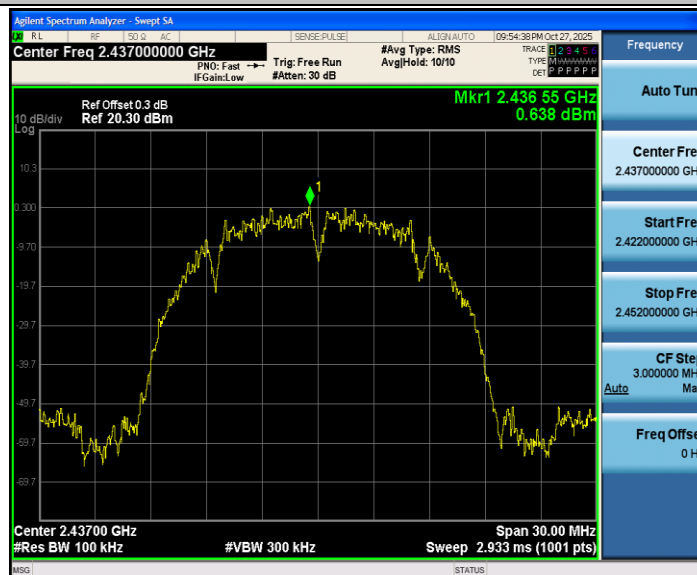
11B_Ant1_2412_30~1000



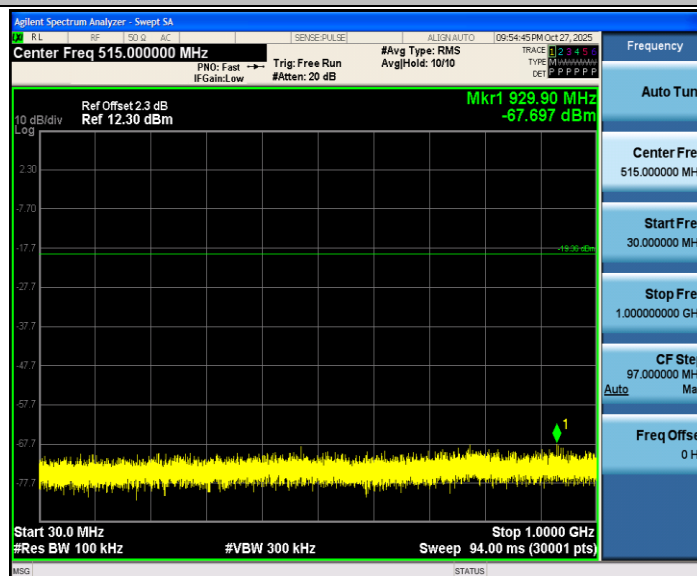
11B_Ant1_2412_1000~26500



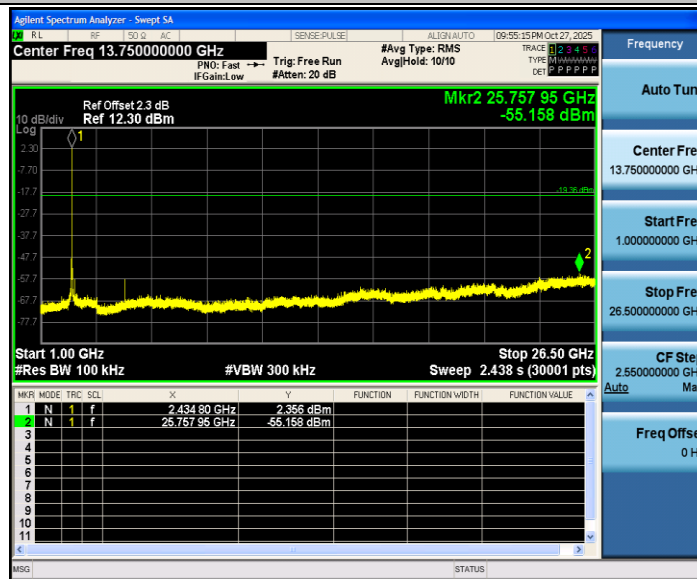
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



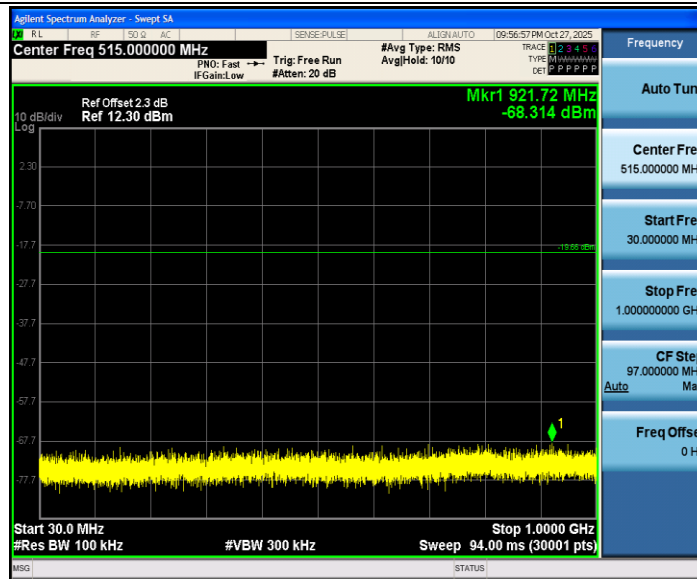
11B_Ant1_2437_1000~26500



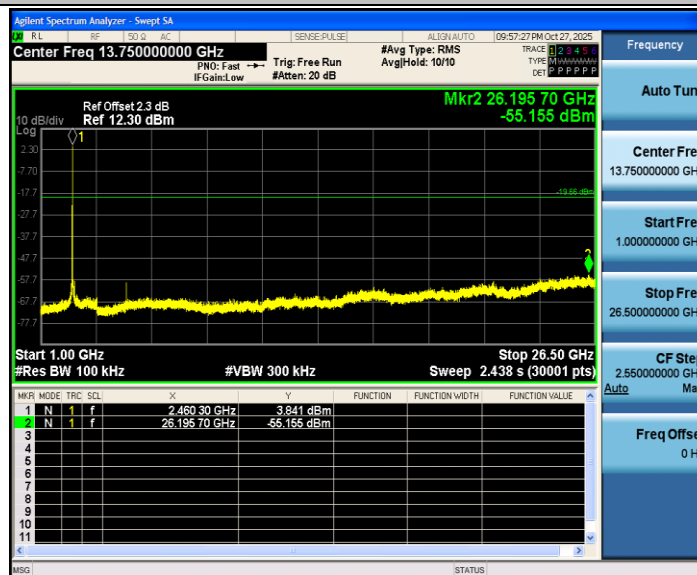
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



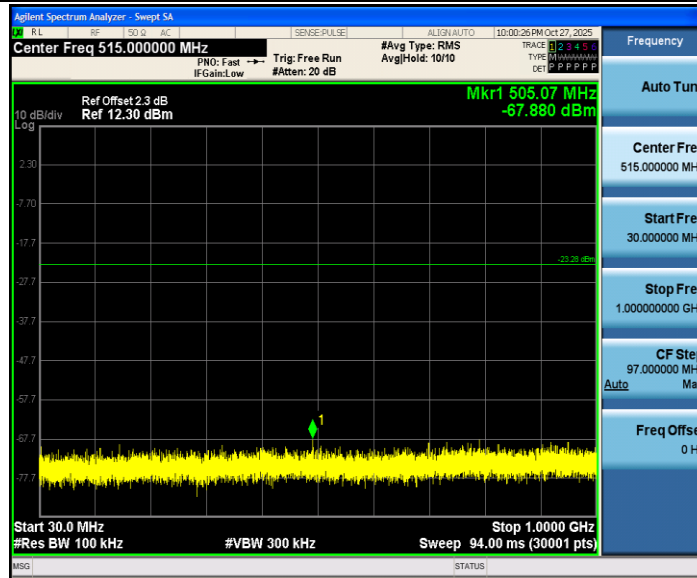
11B_Ant1_2462_1000~26500



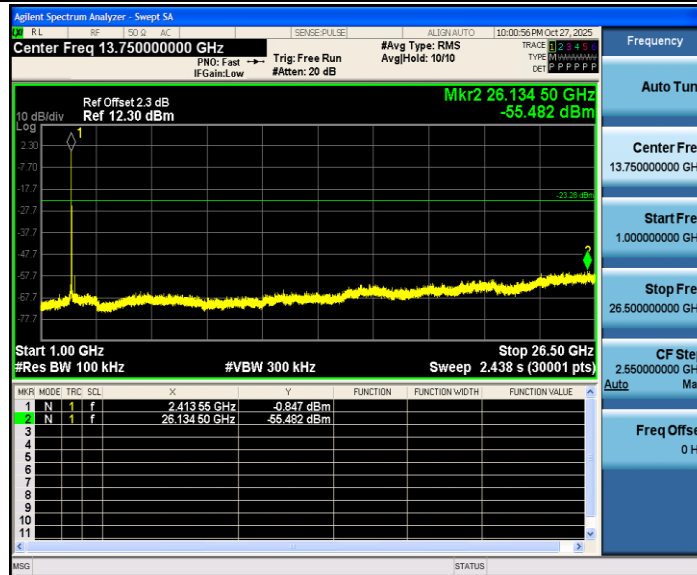
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



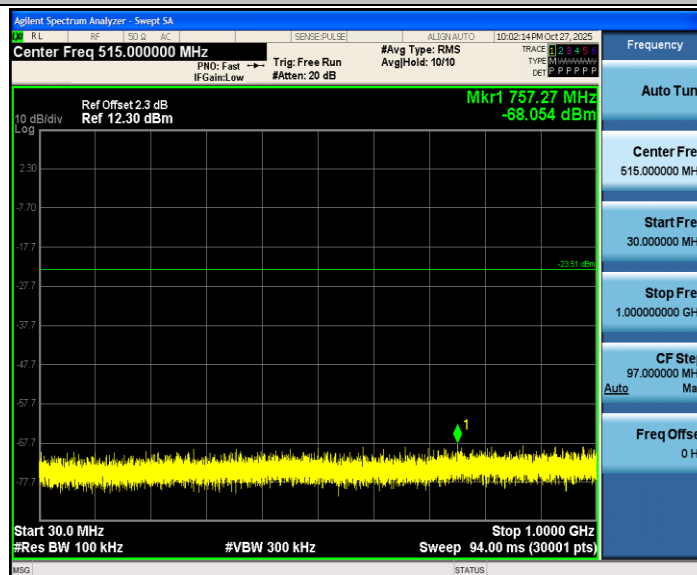
11G_Ant1_2412_1000~26500



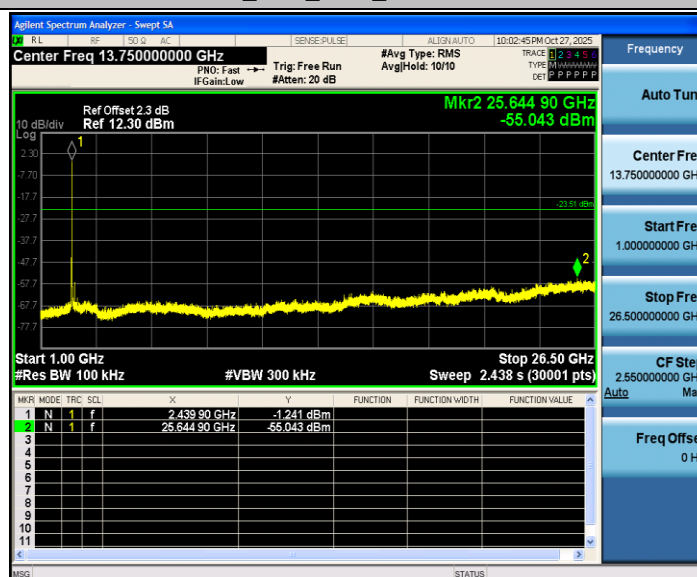
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



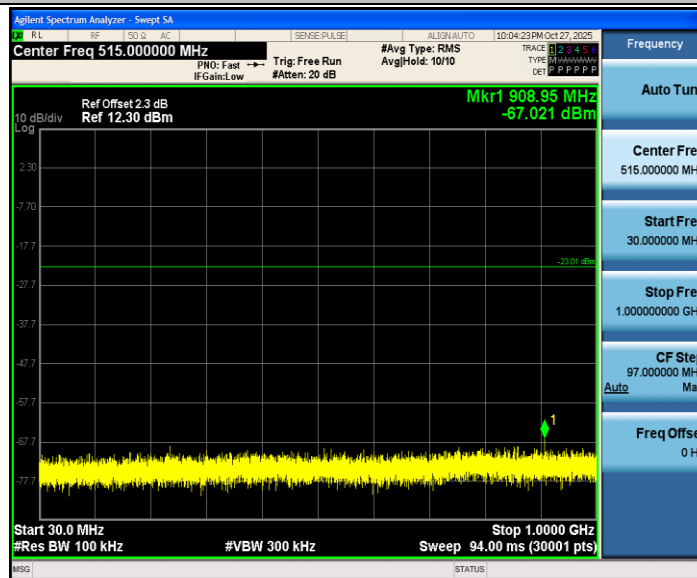
11G_Ant1_2437_1000~26500



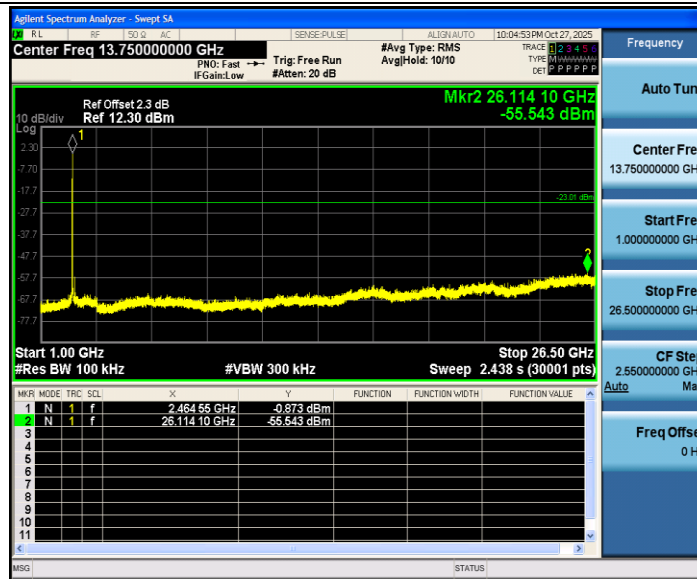
11G_Ant1_2462_0~Reference



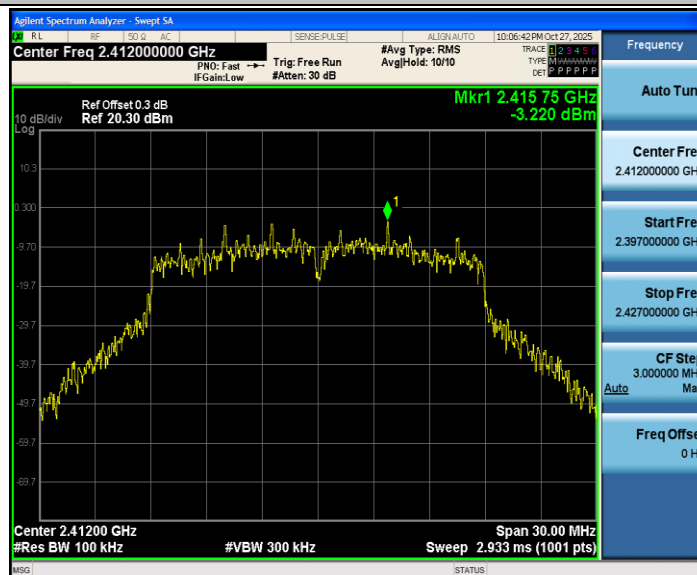
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

