

Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A4TE-AG-19

Company : Shenzhen Realink Technology Co., Ltd.

EUT : Smart Pet Fence System

Model Number : AG-19

Report No. : CTA25081401102

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	8.080	2408.440	2416.520	0.5	PASS
		2437	8.120	2432.960	2441.080	0.5	PASS
		2462	9.000	2457.520	2466.520	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	16.080	2428.880	2444.960	0.5	PASS
		2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant1	2412	15.960	2404.440	2420.400	0.5	PASS
		2437	16.720	2428.520	2445.240	0.5	PASS
		2462	16.760	2453.760	2470.520	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



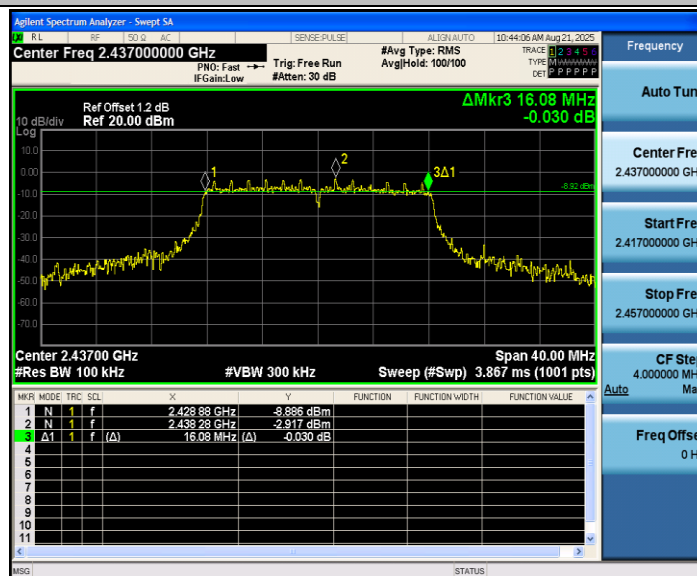
11B_Ant1_2462



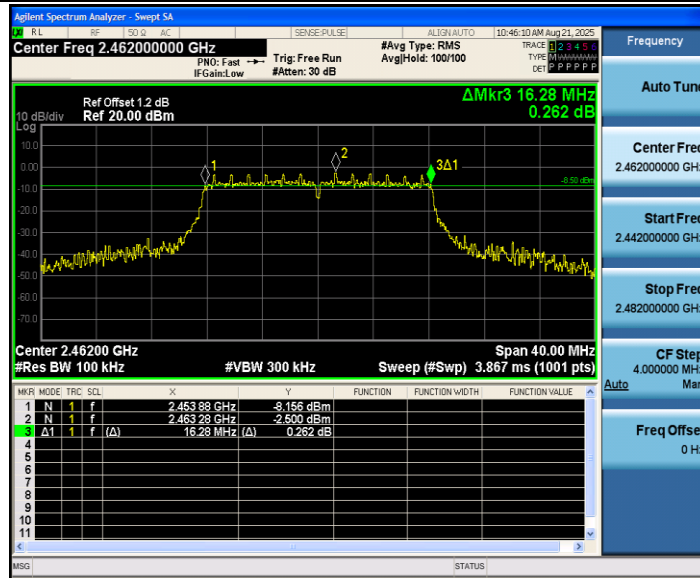
11G_Ant1_2412



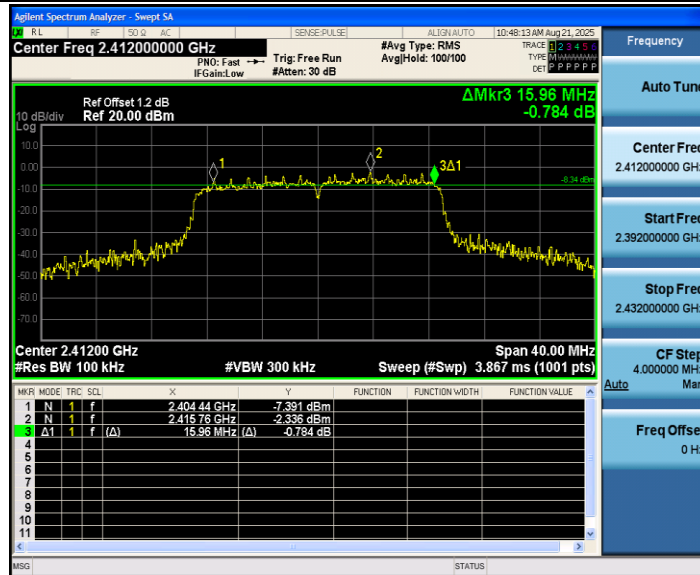
11G_Ant1_2437



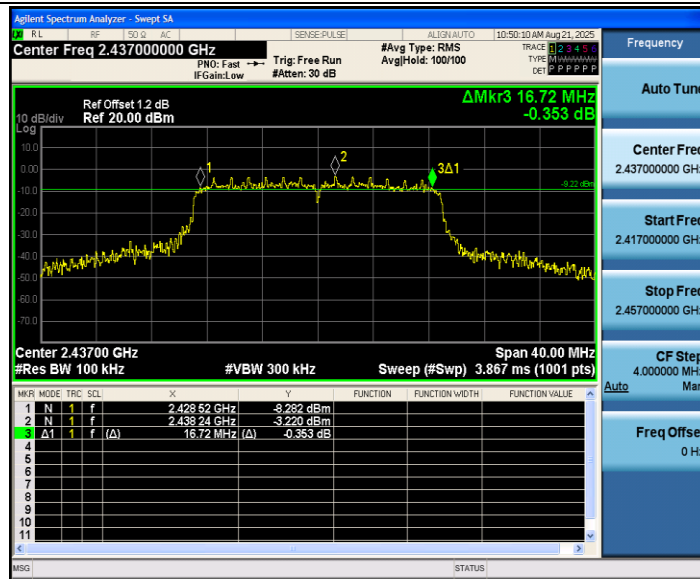
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



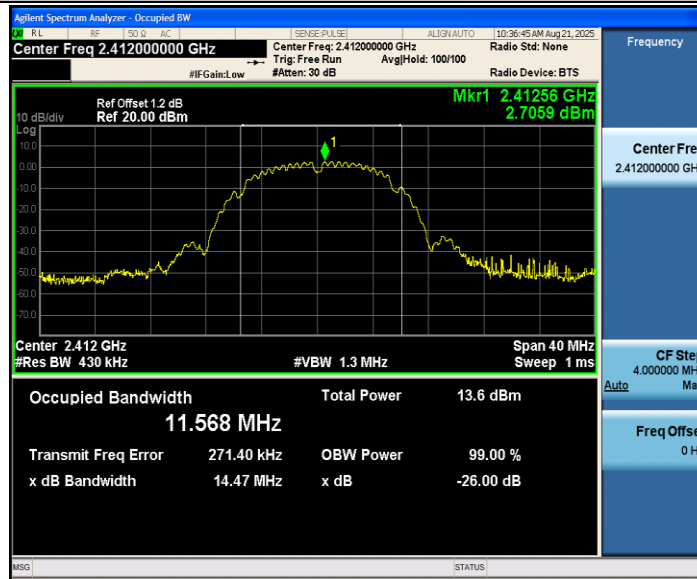
Appendix B: Occupied Channel Bandwidth

Test Result

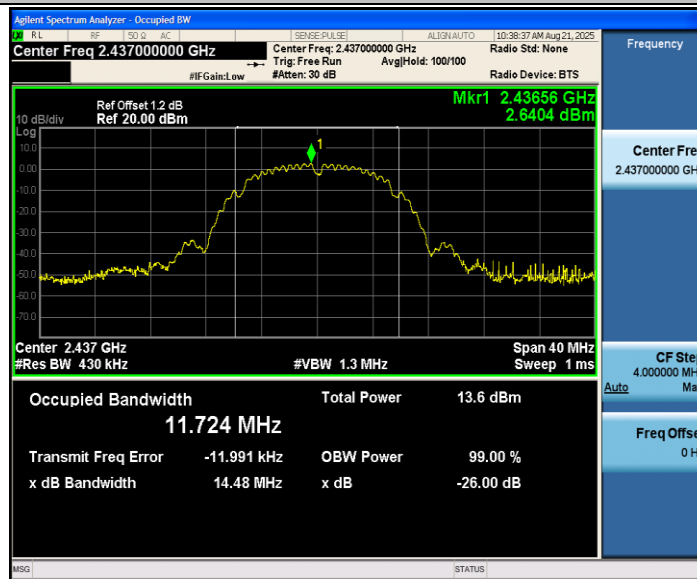
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.568	2406.4874	2418.0554	---	---
		2437	11.724	2431.1260	2442.8500	---	---
		2462	11.817	2456.1333	2467.9503	---	---
11G	Ant1	2412	16.673	2403.8105	2420.4835	---	---
		2437	16.666	2428.6760	2445.3420	---	---
		2462	16.680	2453.6833	2470.3633	---	---
11N20SISO	Ant1	2412	17.615	2403.3207	2420.9357	---	---
		2437	17.619	2428.2047	2445.8237	---	---
		2462	17.645	2453.2013	2470.8463	---	---

Test Graphs

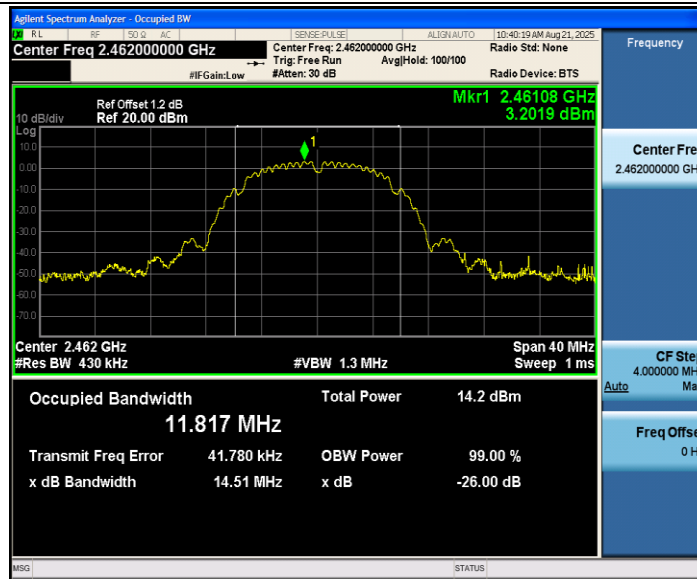
11B_Ant1_2412



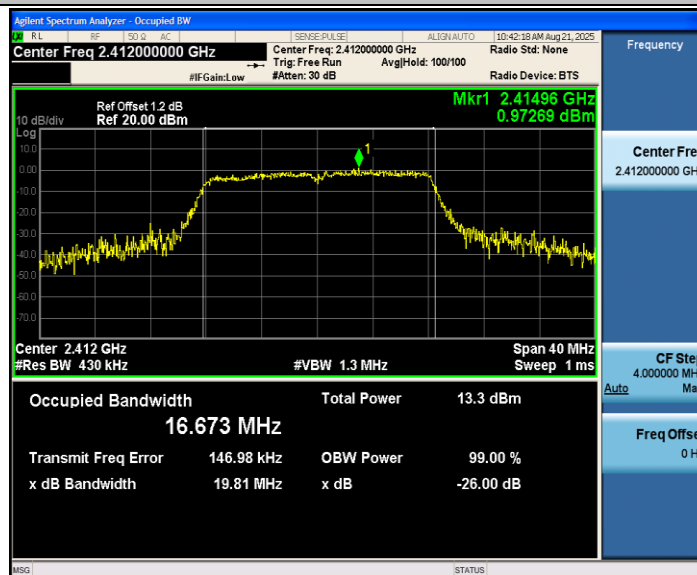
11B_Ant1_2437



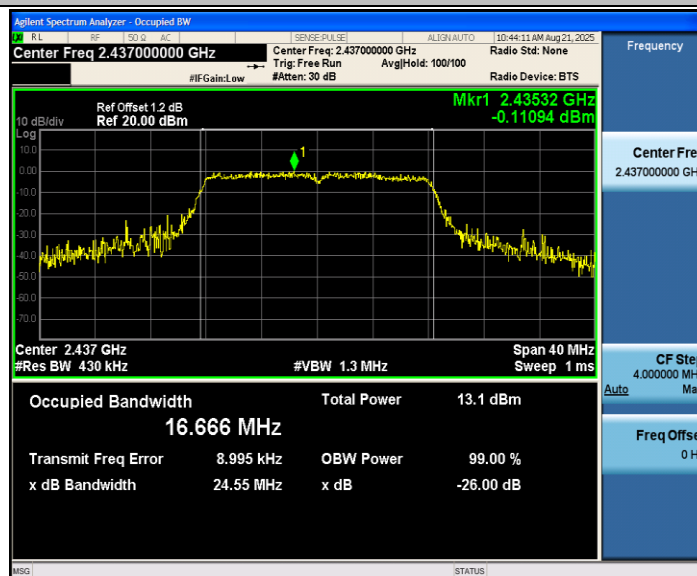
11B_Ant1_2462



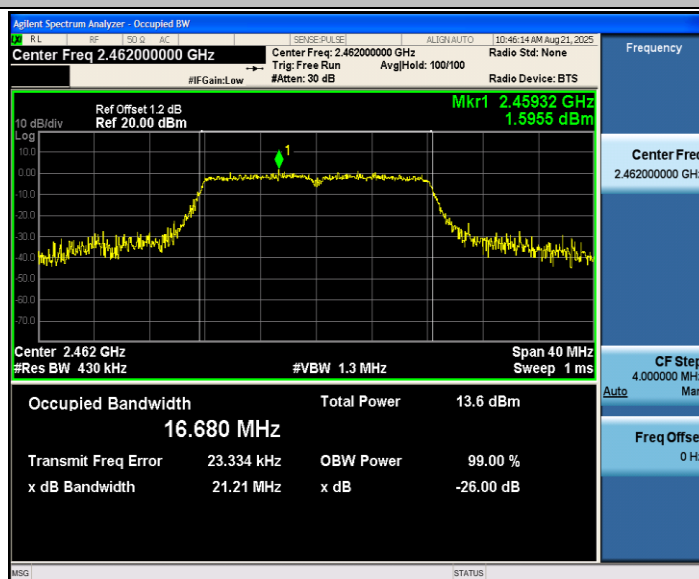
11G_Ant1_2412



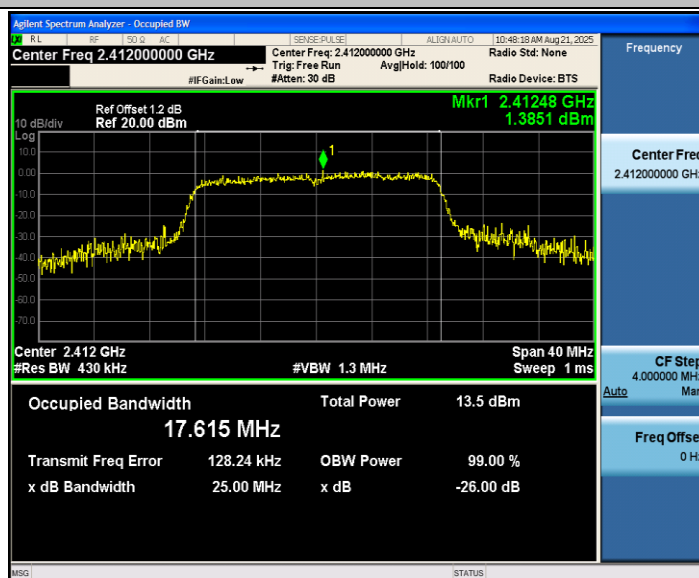
11G_Ant1_2437



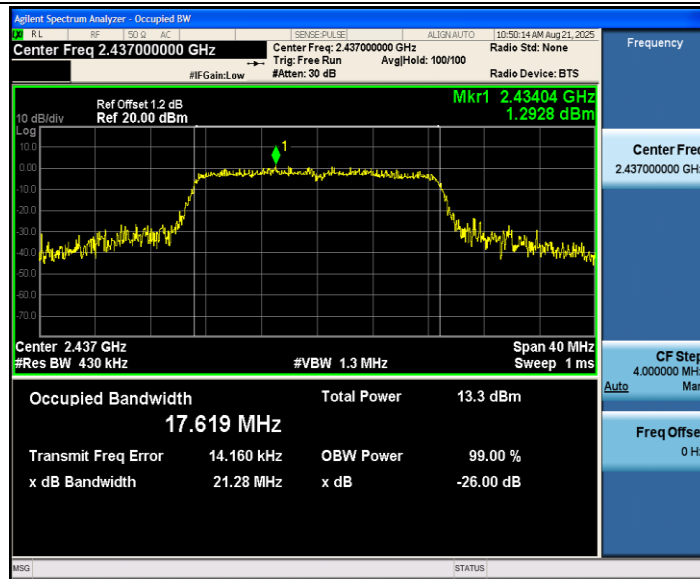
11G_Ant1_2462



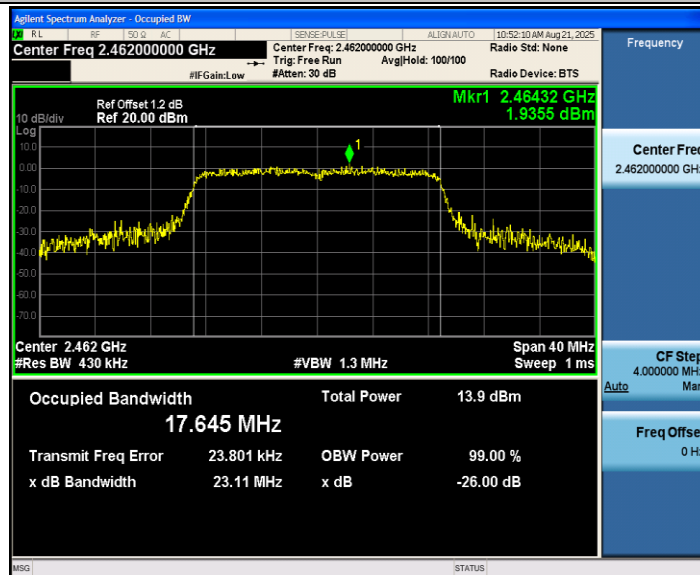
11N20SISO_Ant1_2412



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	13.31	≤30.00	PASS
		2437	13.24	≤30.00	PASS
		2462	14.08	≤30.00	PASS
11G	Ant1	2412	14.15	≤30.00	PASS
		2437	13.92	≤30.00	PASS
		2462	14.43	≤30.00	PASS
11N20SISO	Ant1	2412	14.16	≤30.00	PASS
		2437	13.91	≤30.00	PASS
		2462	14.53	≤30.00	PASS

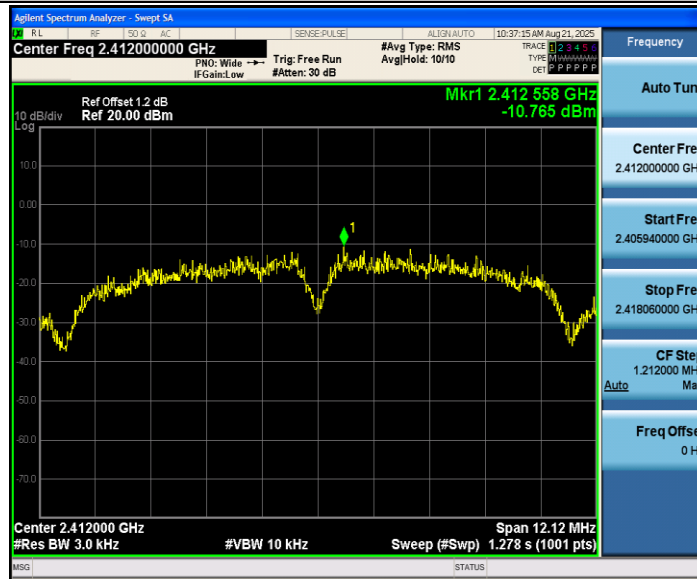
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.77	≤8.00	PASS
		2437	-11.72	≤8.00	PASS
		2462	-11.06	≤8.00	PASS
11G	Ant1	2412	-17.19	≤8.00	PASS
		2437	-17.94	≤8.00	PASS
		2462	-17.33	≤8.00	PASS
11N20SISO	Ant1	2412	-17.53	≤8.00	PASS
		2437	-17.57	≤8.00	PASS
		2462	-17.57	≤8.00	PASS

Test Graphs

11B_Ant1_2412



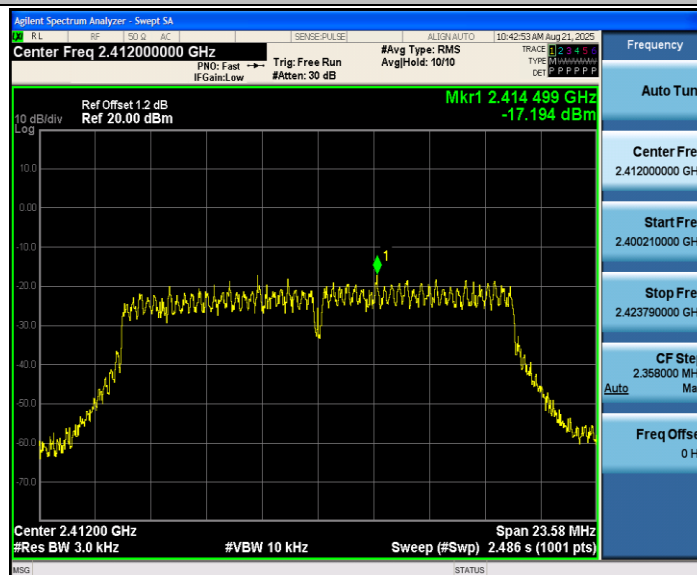
11B_Ant1_2437



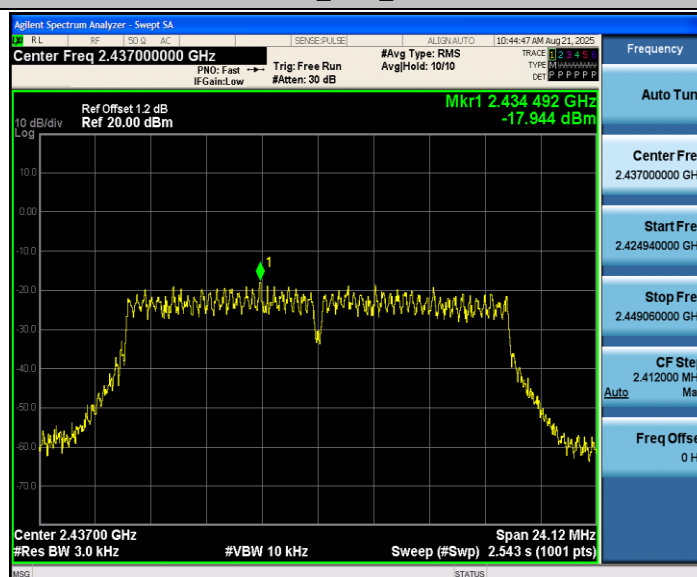
11B_Ant1_2462



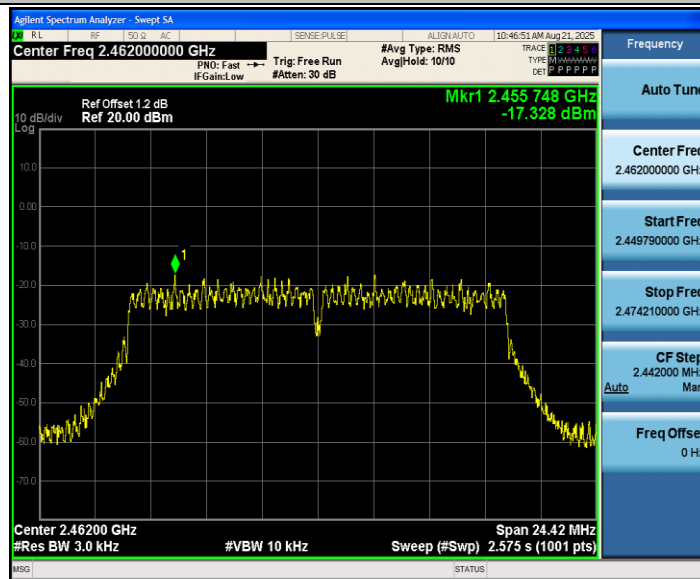
11G_Ant1_2412



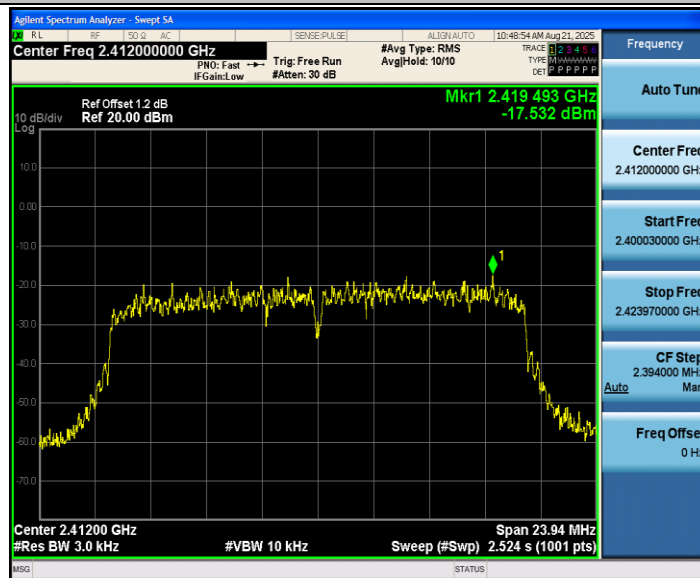
11G_Ant1_2437



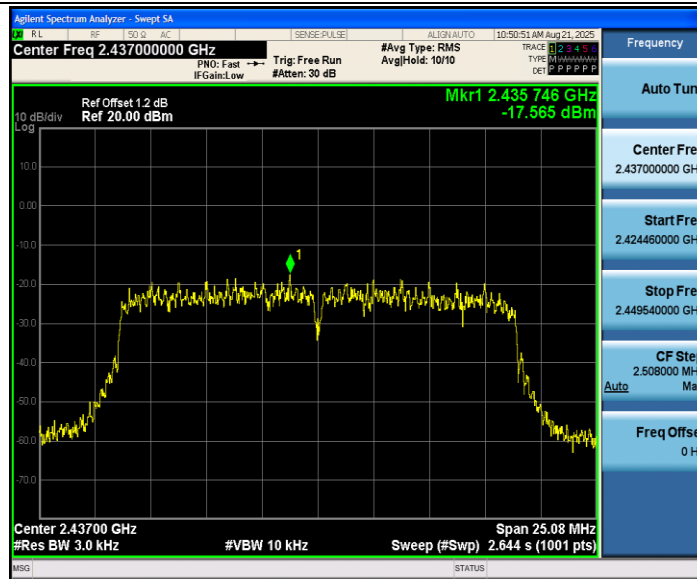
11G_Ant1_2462



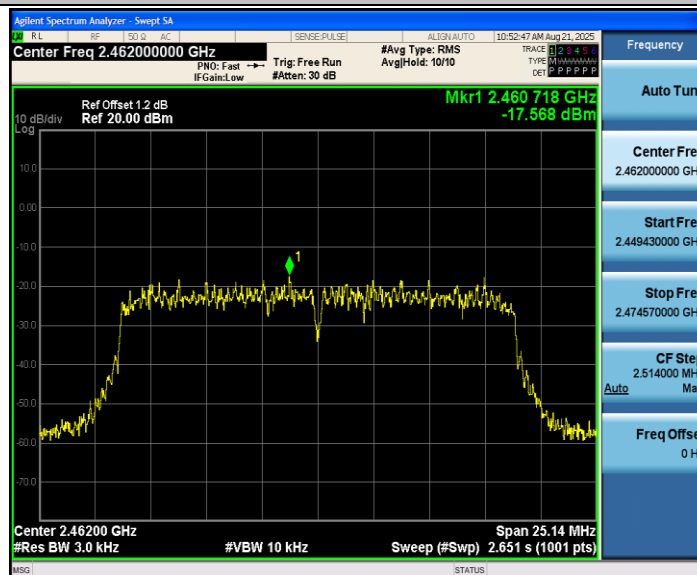
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



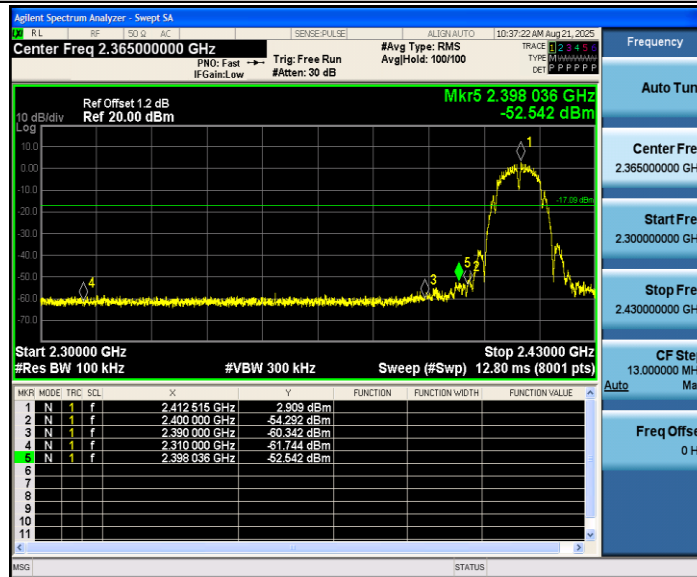
Appendix E: Band edge measurements

Test Result

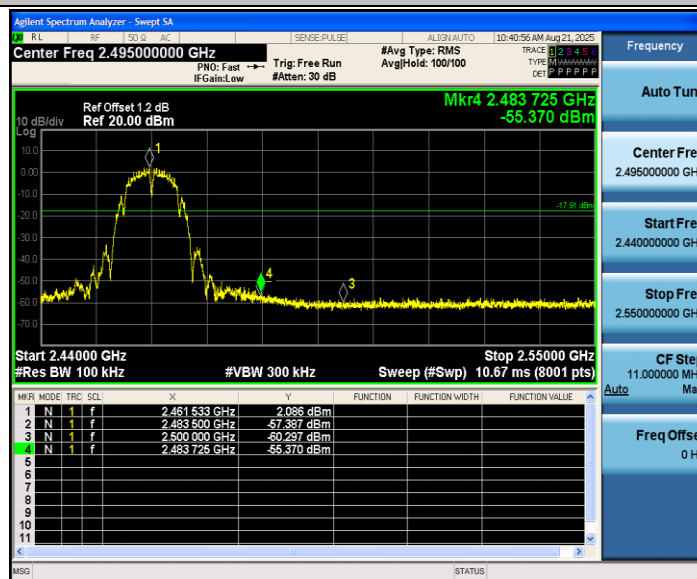
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.91	-52.54	≤-17.09	PASS
		High	2462	2.09	-55.37	≤-17.91	PASS
11G	Ant1	Low	2412	-2.36	-38.34	≤-22.36	PASS
		High	2462	-2.61	-48.67	≤-22.61	PASS
11N20SISO	Ant1	Low	2412	-2.35	-36.74	≤-22.35	PASS
		High	2462	-2.45	-45.22	≤-22.45	PASS

Test Graphs

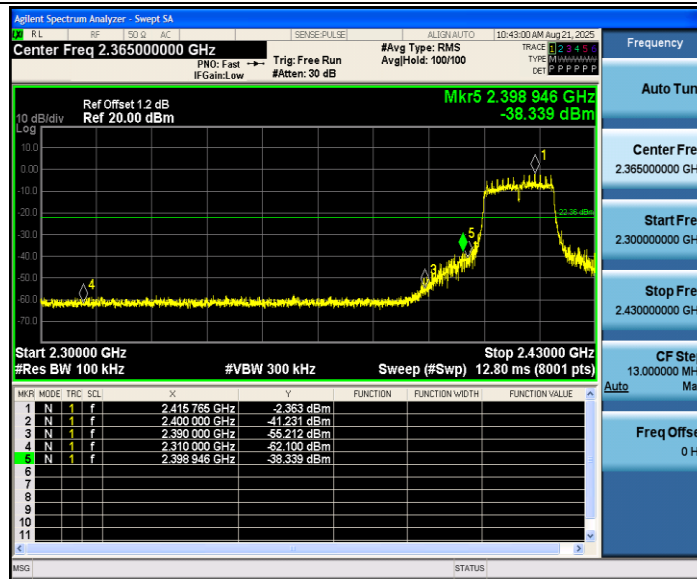
11B_Ant1_Low_2412



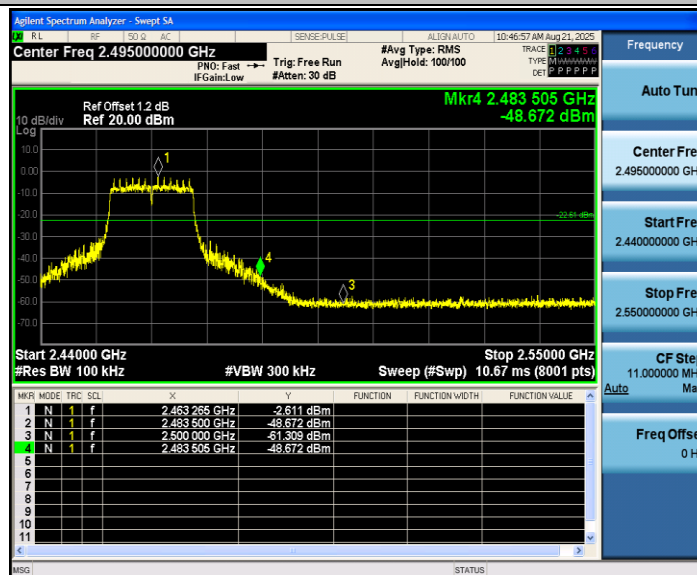
11B_Ant1_High_2462



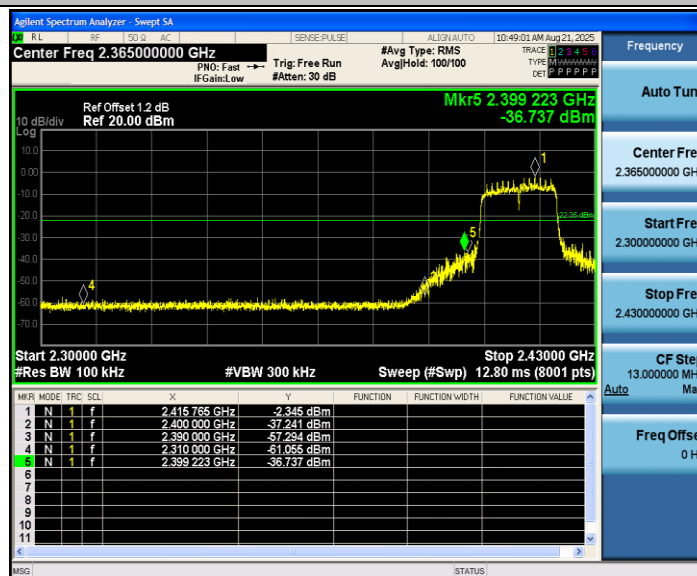
11G_Ant1_Low_2412



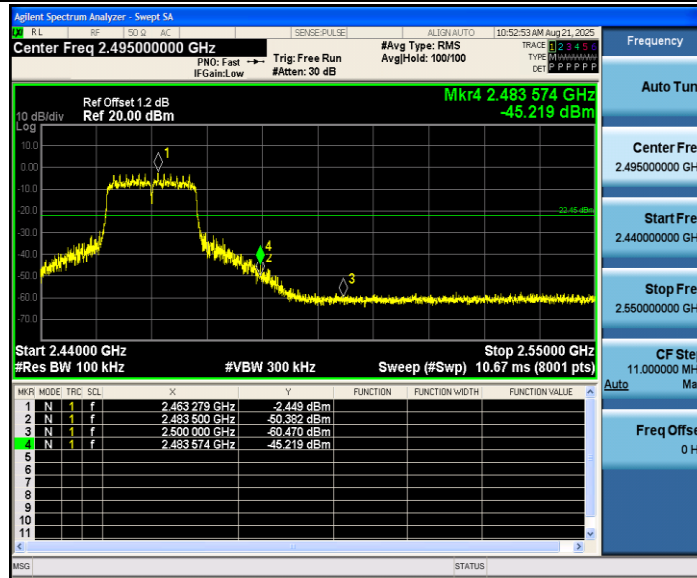
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

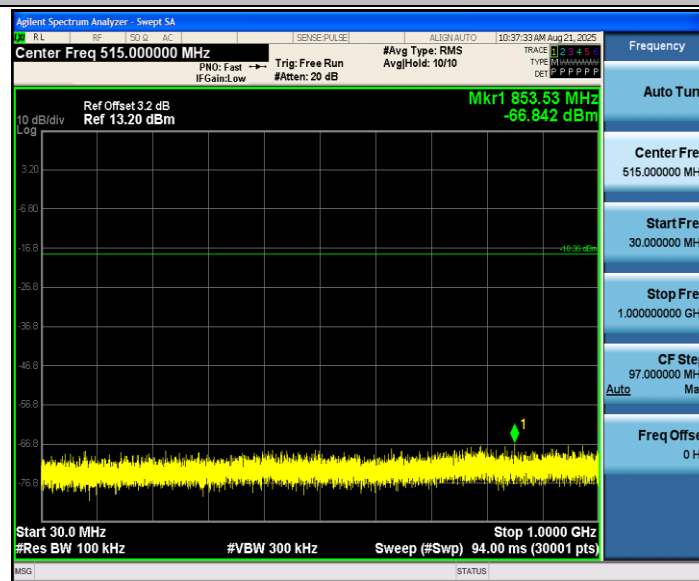
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.64	1.64	---	PASS
			30~1000	1.64	-66.84	≤-18.36	PASS
			1000~26500	1.64	-54.04	≤-18.36	PASS
		2437	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-36.76	≤-18.88	PASS
			1000~26500	1.12	-53.39	≤-18.88	PASS
		2462	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-67.01	≤-18.94	PASS
			1000~26500	1.06	-53.02	≤-18.94	PASS
11G	Ant1	2412	Reference	-4.11	-4.11	---	PASS
			30~1000	-4.11	-66.83	≤-24.11	PASS
			1000~26500	-4.11	-54.08	≤-24.11	PASS
		2437	Reference	-3.21	-3.21	---	PASS
			30~1000	-3.21	-67.36	≤-23.21	PASS
			1000~26500	-3.21	-52.61	≤-23.21	PASS
		2462	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-66.47	≤-22.49	PASS
			1000~26500	-2.49	-54.02	≤-22.49	PASS
11N20SISO	Ant1	2412	Reference	-3.21	-3.21	---	PASS
			30~1000	-3.21	-67.55	≤-23.21	PASS
			1000~26500	-3.21	-53.63	≤-23.21	PASS
		2437	Reference	-3.69	-3.69	---	PASS
			30~1000	-3.69	-66.85	≤-23.69	PASS
			1000~26500	-3.69	-53.95	≤-23.69	PASS
		2462	Reference	-3.04	-3.04	---	PASS
			30~1000	-3.04	-67.4	≤-23.04	PASS
			1000~26500	-3.04	-54.49	≤-23.04	PASS

Test Graphs

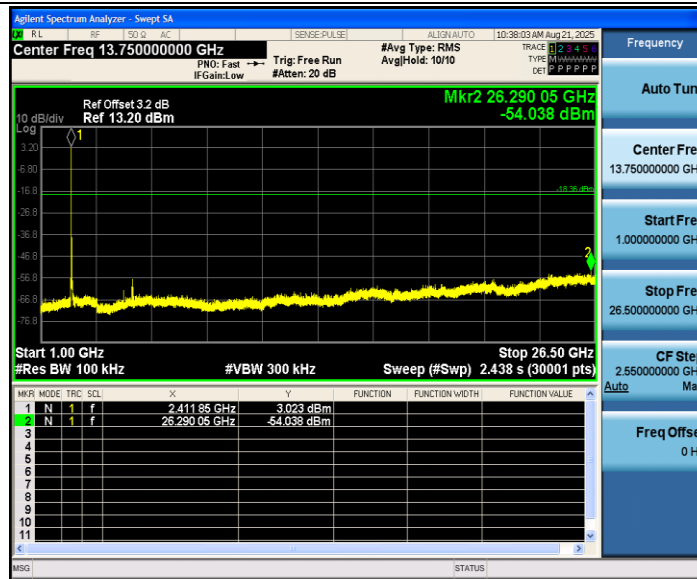
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



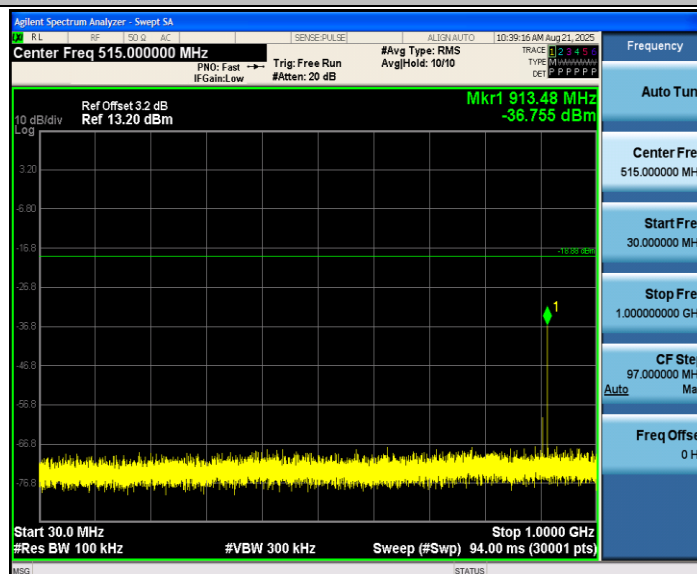
11B_Ant1_2412_1000~26500



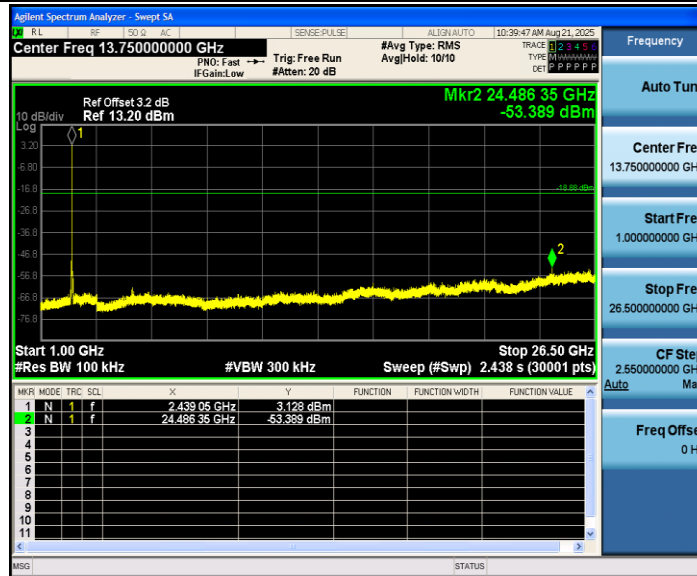
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



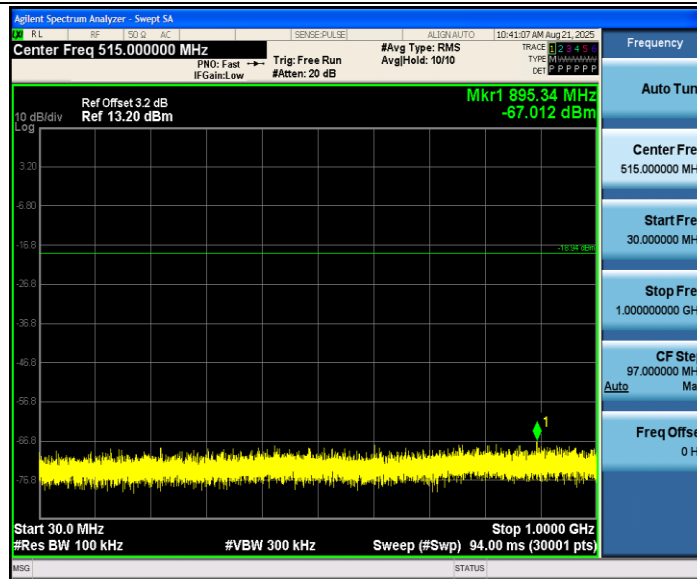
11B_Ant1_2437_1000~26500



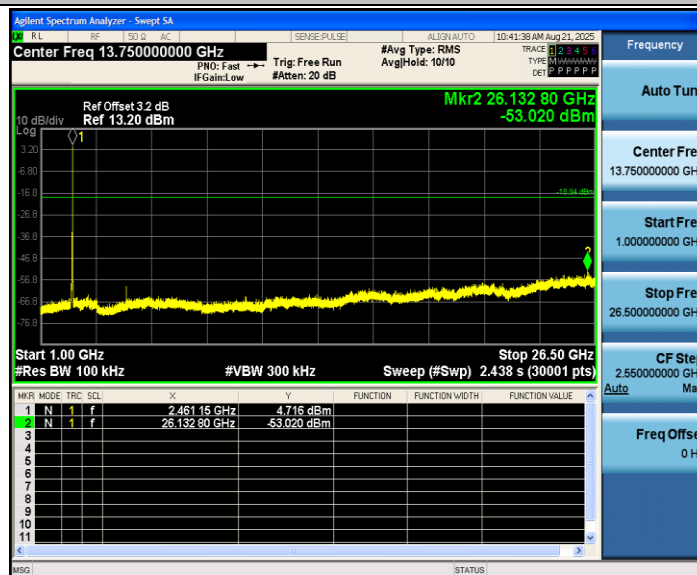
11B_Ant1_2462_0~Reference



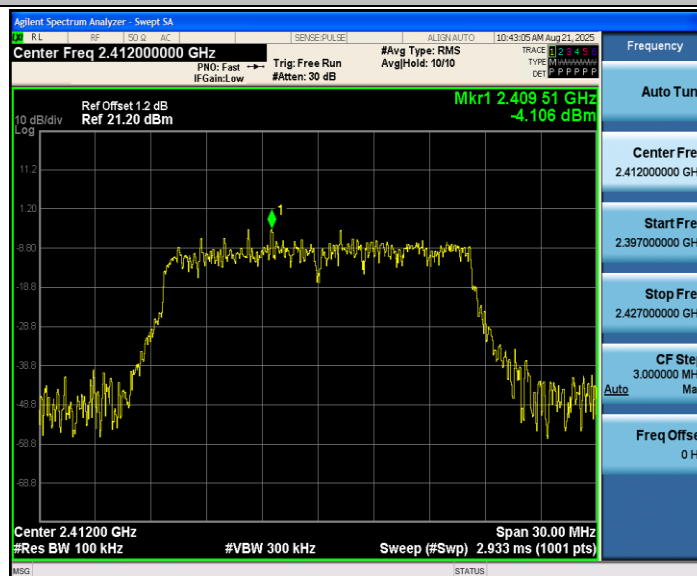
11B_Ant1_2462_30~1000



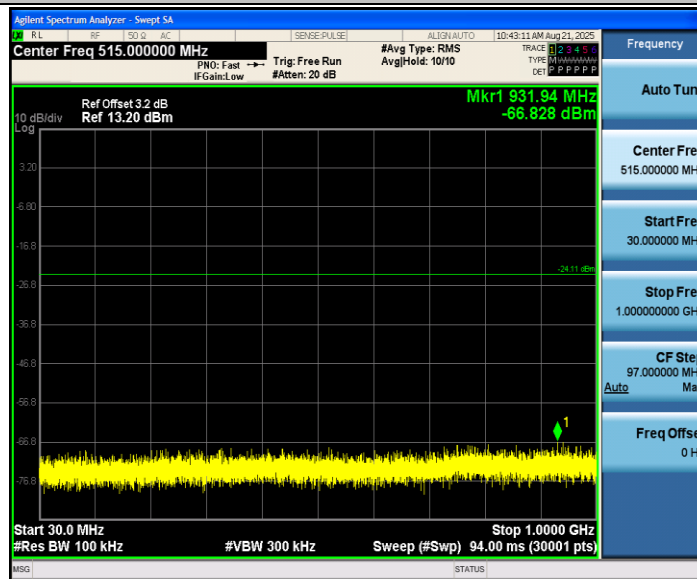
11B_Ant1_2462_1000~26500



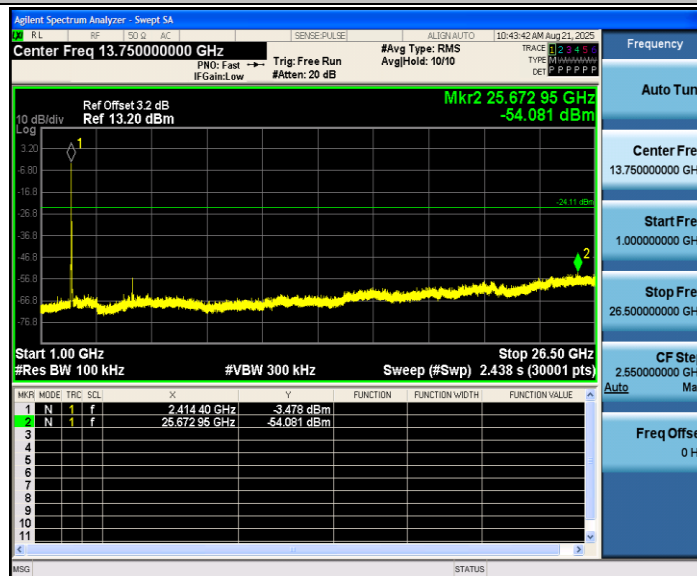
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



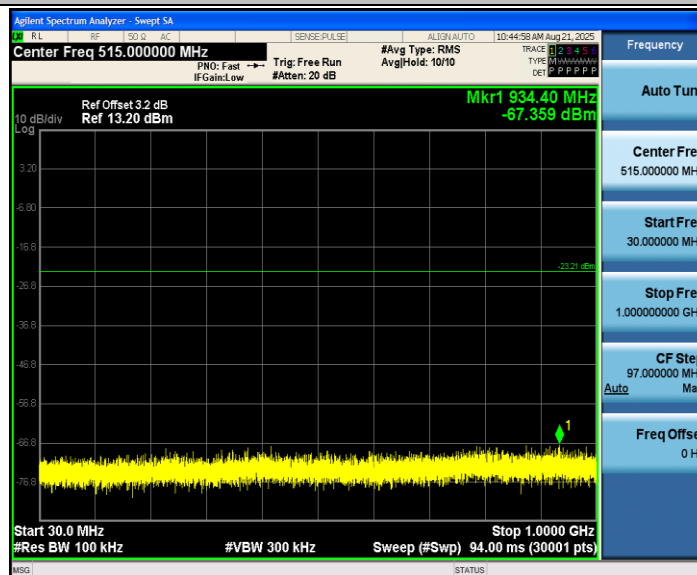
11G_Ant1_2412_1000~26500



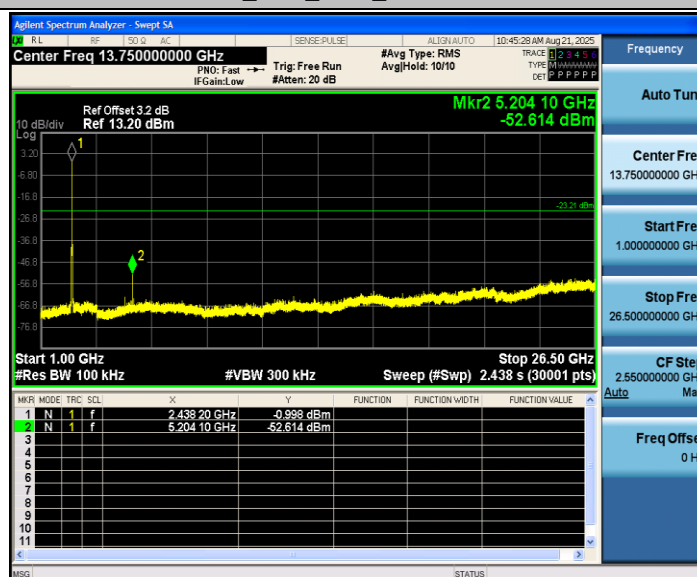
11G_Ant1_2437_0~Reference



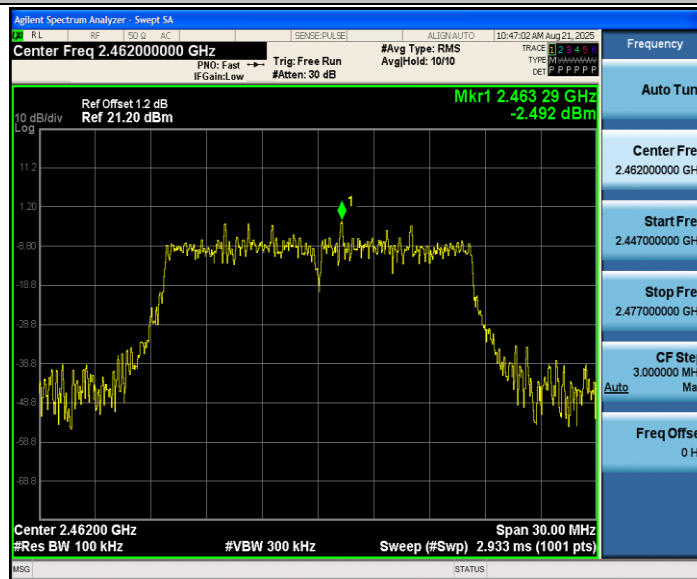
11G_Ant1_2437_30~1000



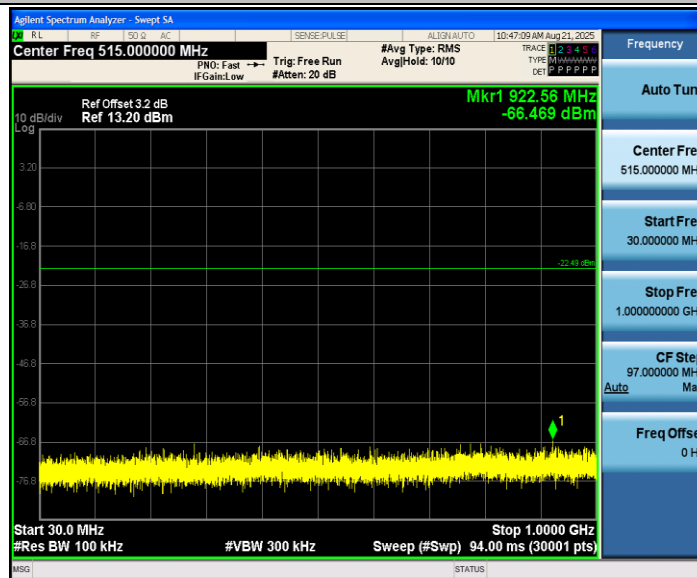
11G_Ant1_2437_1000~26500



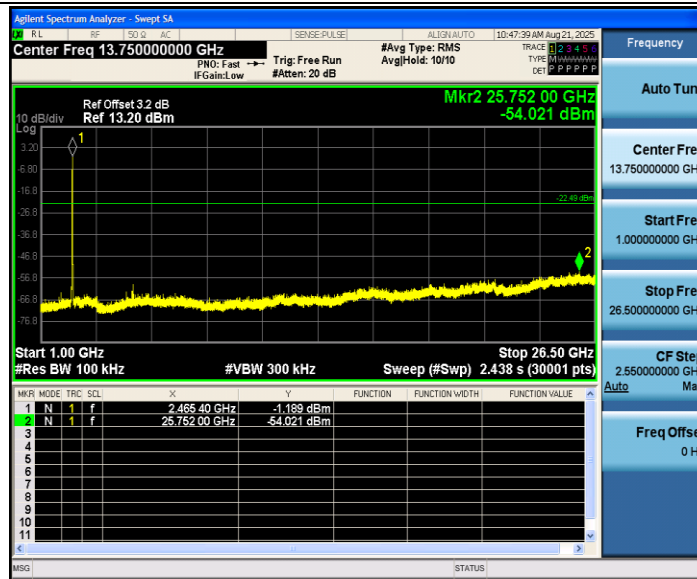
11G_Ant1_2462_0~Reference



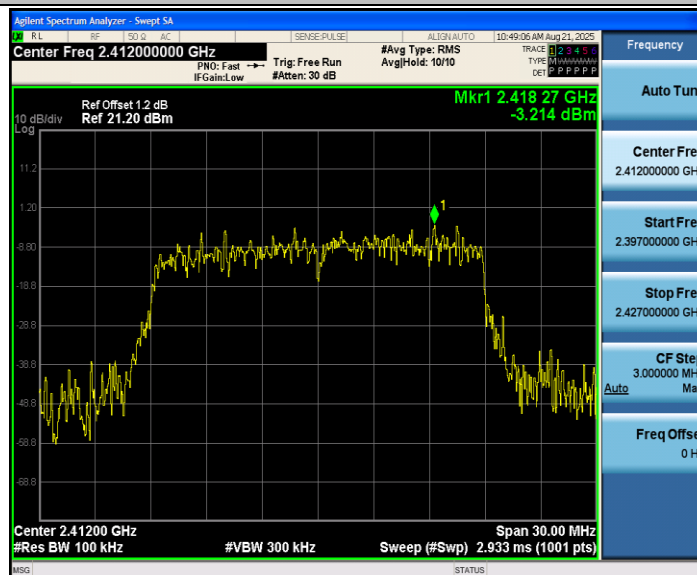
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

