

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2AMMG-FK-06X

Company : HANGZHOU FRANKEVER ELECTRONIC CO.,LTD.

EUT : Smart Irrigation Timer

Model Number : FK-06X

Report No. : CTA25111901202

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

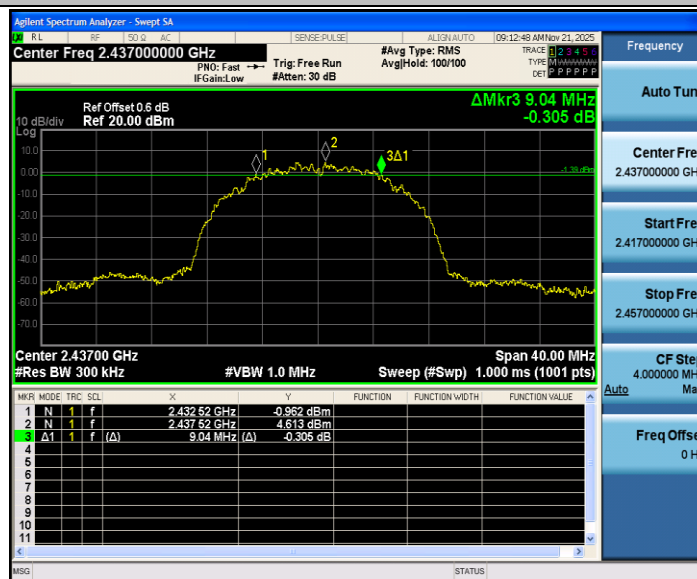
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.640	2407.640	2416.280	0.5	PASS
		2437	9.040	2432.520	2441.560	0.5	PASS
		2462	9.000	2457.440	2466.440	0.5	PASS
11G	Ant1	2412	16.280	2403.920	2420.200	0.5	PASS
		2437	16.280	2428.920	2445.200	0.5	PASS
		2462	16.320	2453.880	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.280	2403.400	2420.680	0.5	PASS
		2437	17.280	2428.440	2445.720	0.5	PASS
		2462	17.280	2453.360	2470.640	0.5	PASS

Test Graphs

11B_Ant1_2412



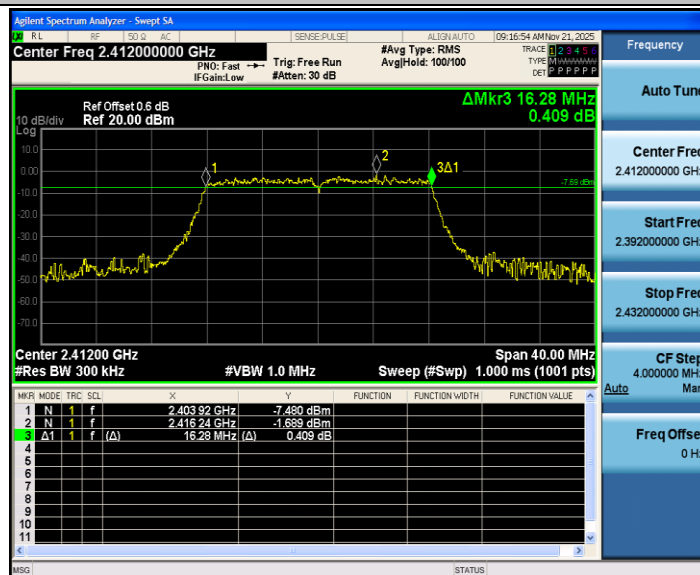
11B_Ant1_2437



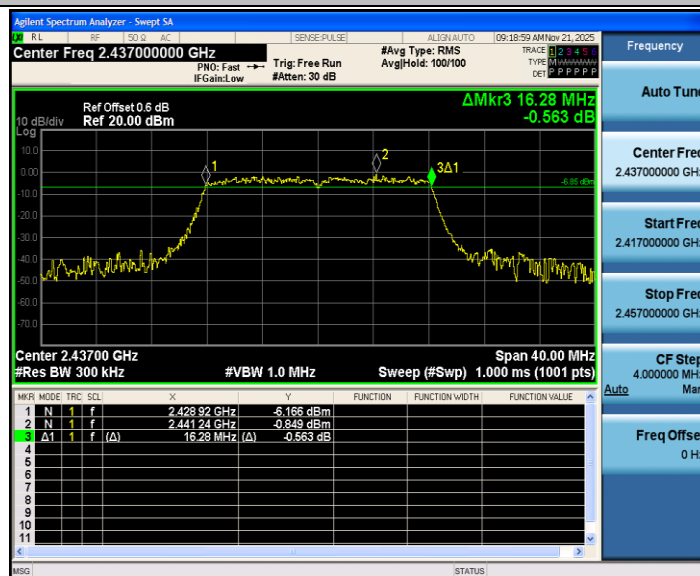
11B_Ant1_2462



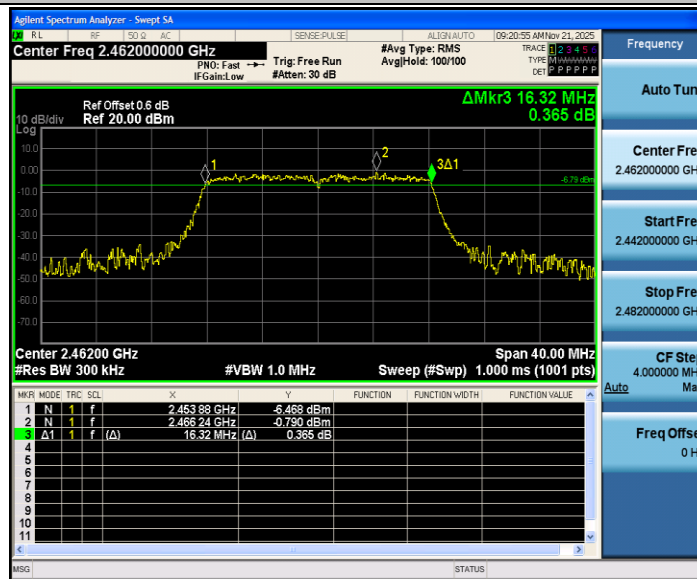
11G_Ant1_2412



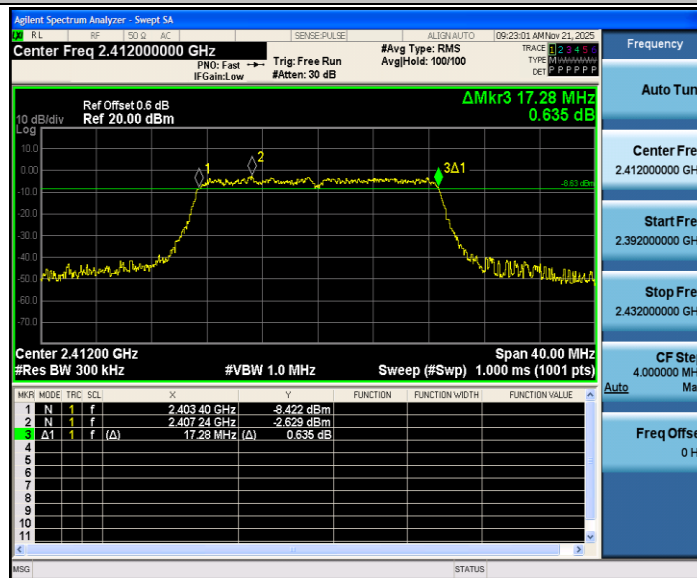
11G_Ant1_2437



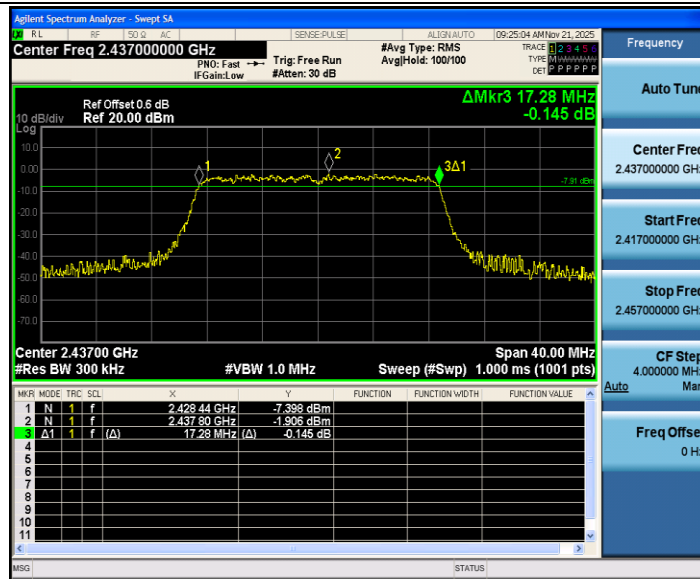
11G_Ant1_2462



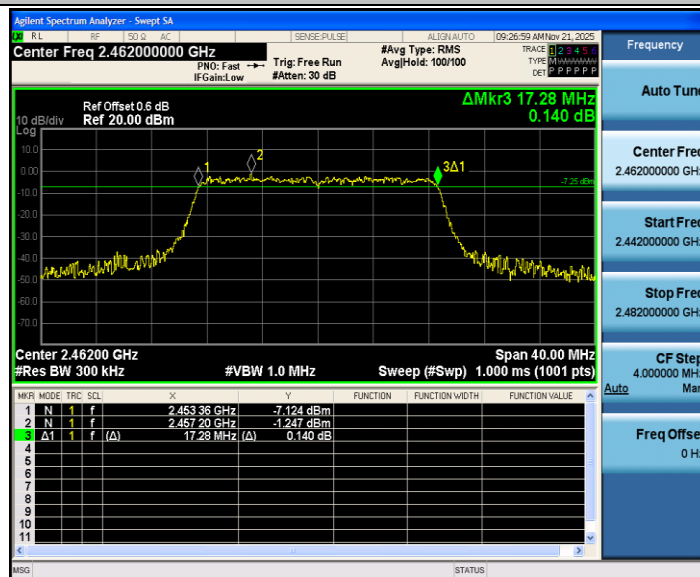
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



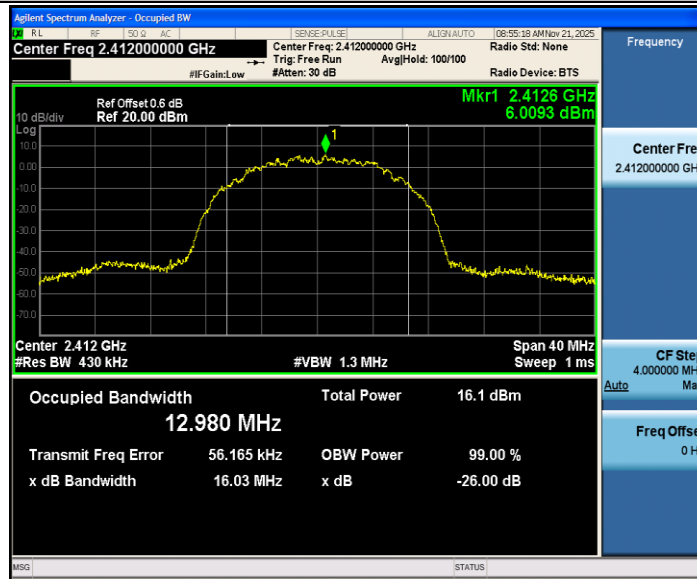
Appendix B: Occupied Channel Bandwidth

Test Result

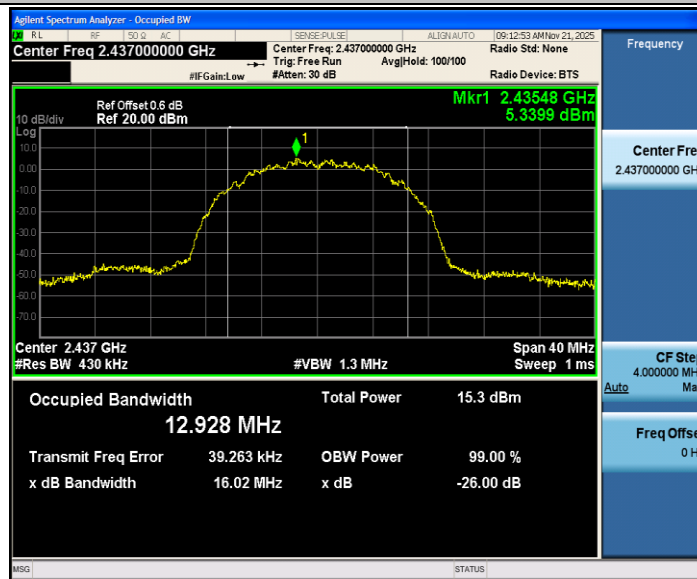
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.980	2405.5662	2418.5462	---	---
		2437	12.928	2430.5753	2443.5033	---	---
		2462	12.996	2455.5060	2468.5020	---	---
11G	Ant1	2412	16.550	2403.7700	2420.3200	---	---
		2437	16.590	2428.7370	2445.3270	---	---
		2462	16.561	2453.7431	2470.3041	---	---
11N20SISO	Ant1	2412	17.463	2403.3151	2420.7781	---	---
		2437	17.433	2428.3235	2445.7565	---	---
		2462	17.457	2453.3124	2470.7694	---	---

Test Graphs

11B_Ant1_2412



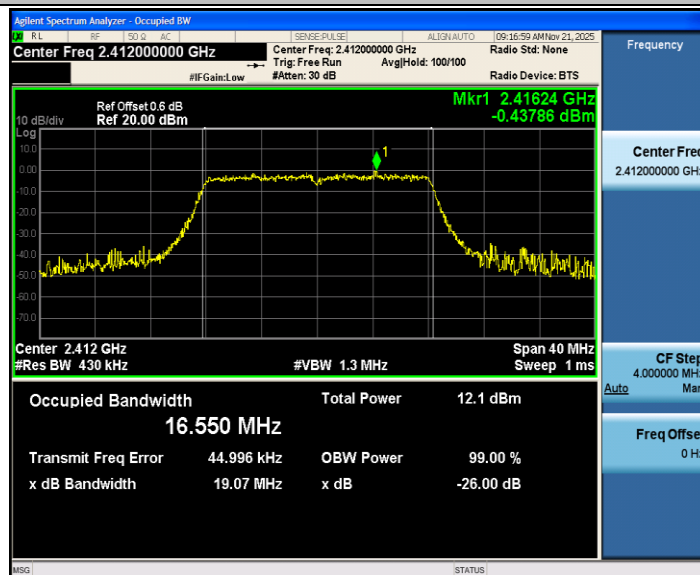
11B_Ant1_2437



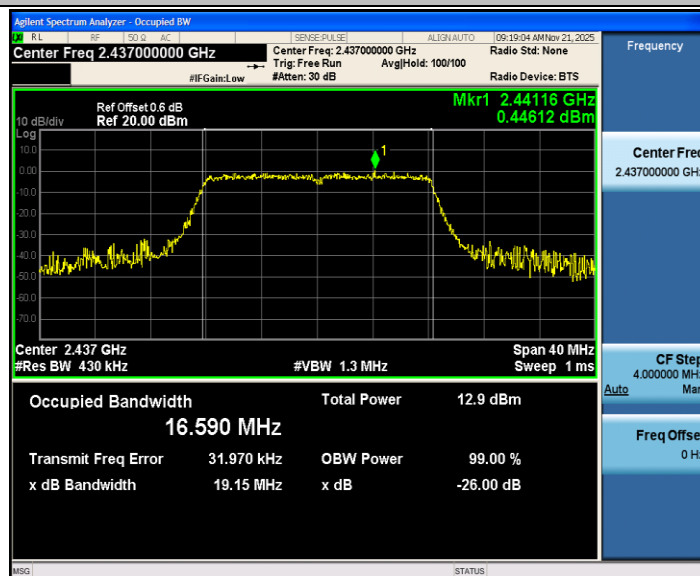
11B_Ant1_2462



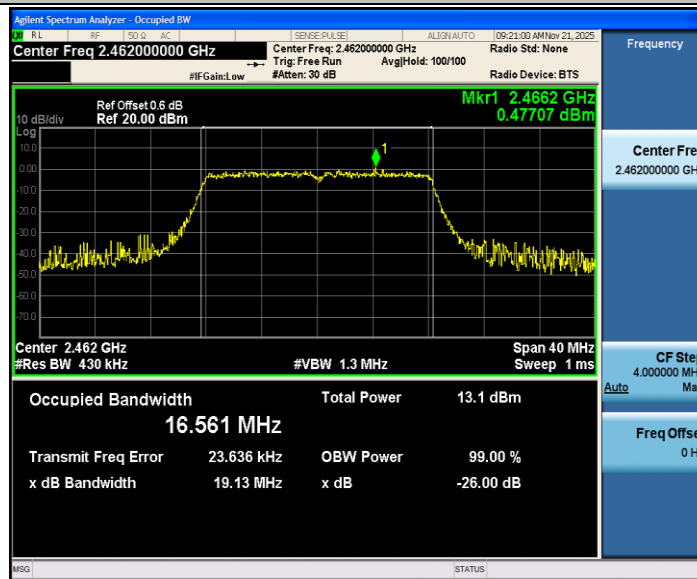
11G_Ant1_2412



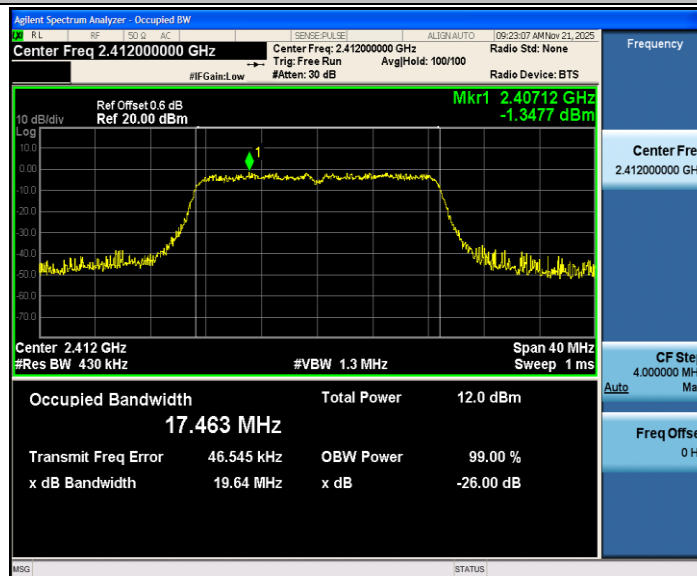
11G_Ant1_2437



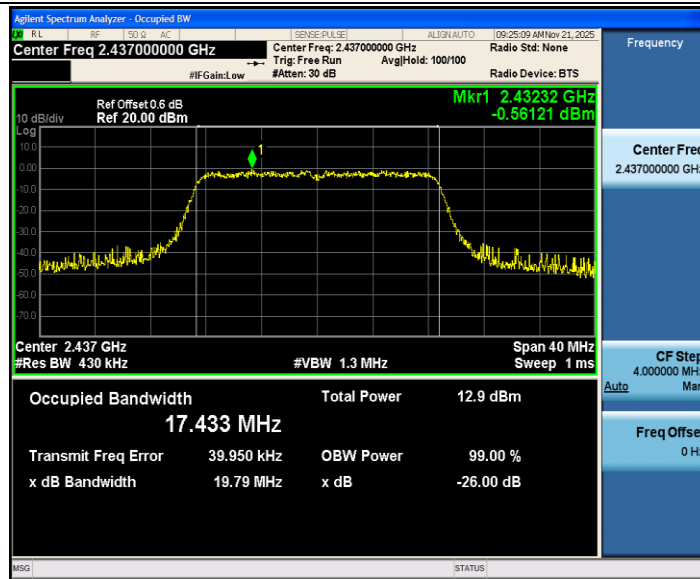
11G_Ant1_2462



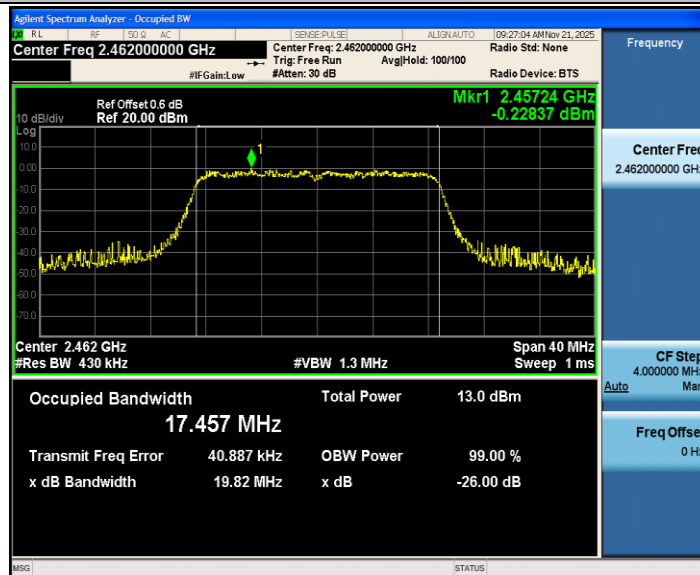
11N20SISO_Ant1_2412



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	15.45	≤30.00	PASS
		2437	14.88	≤30.00	PASS
		2462	14.88	≤30.00	PASS
11G	Ant1	2412	12.97	≤30.00	PASS
		2437	13.63	≤30.00	PASS
		2462	13.82	≤30.00	PASS
11N20SISO	Ant1	2412	13.32	≤30.00	PASS
		2437	14.03	≤30.00	PASS
		2462	14.21	≤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	-13.31	≤8.00	PASS
		2437	-14.16	≤8.00	PASS
		2462	-13.79	≤8.00	PASS
11G	Ant1	2412	-21.57	≤8.00	PASS
		2437	-20.76	≤8.00	PASS
		2462	-20.50	≤8.00	PASS
11N20SISO	Ant1	2412	-20.96	≤8.00	PASS
		2437	-20.33	≤8.00	PASS
		2462	-20.18	≤8.00	PASS

Test Graphs

11B_Ant1_2412



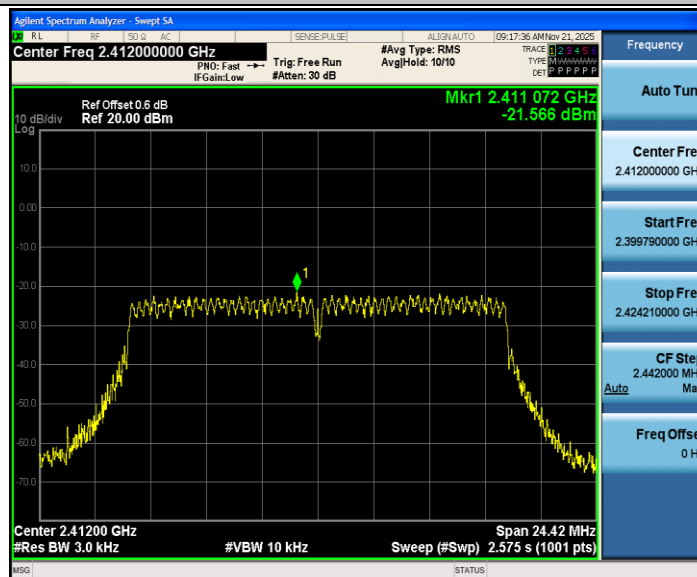
11B_Ant1_2437



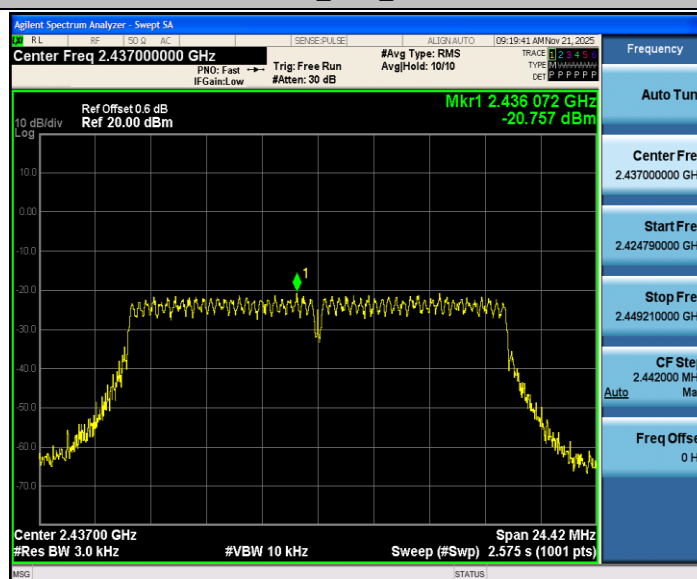
11B_Ant1_2462



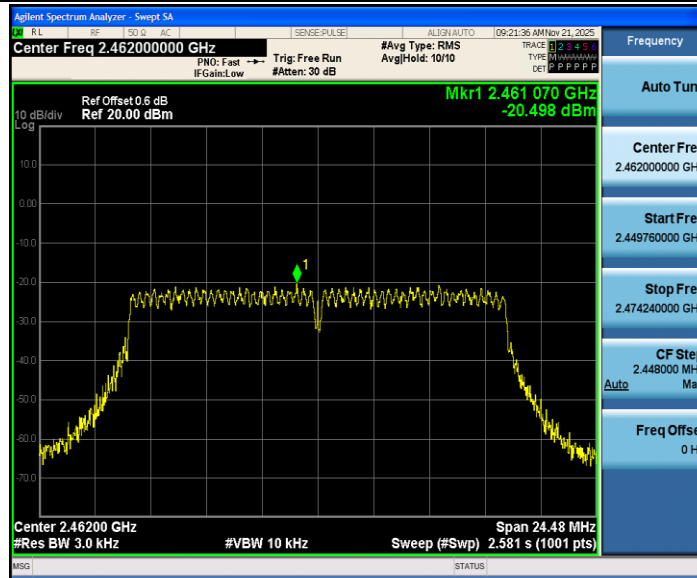
11G_Ant1_2412



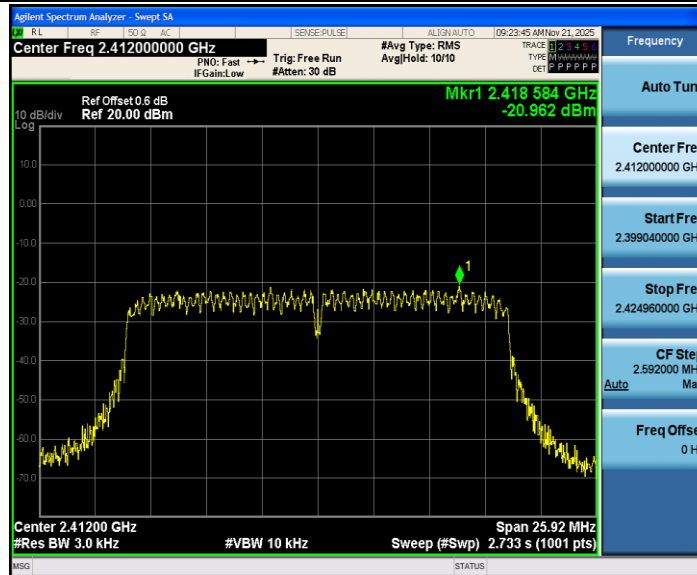
11G_Ant1_2437



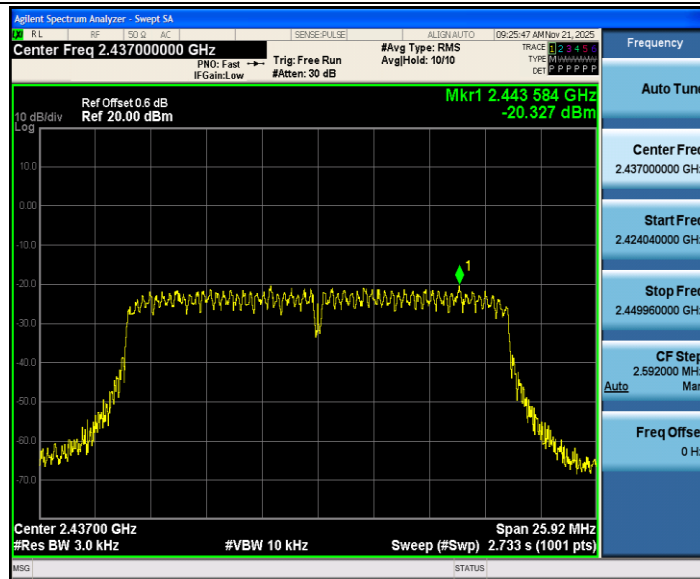
11G_Ant1_2462



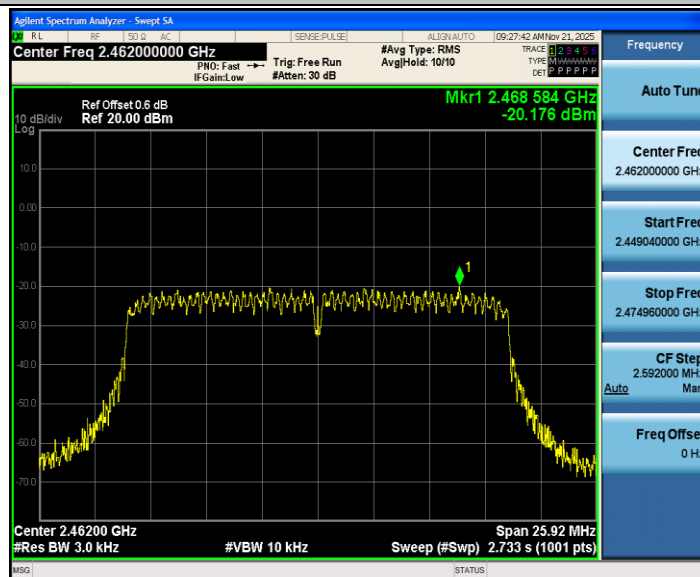
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



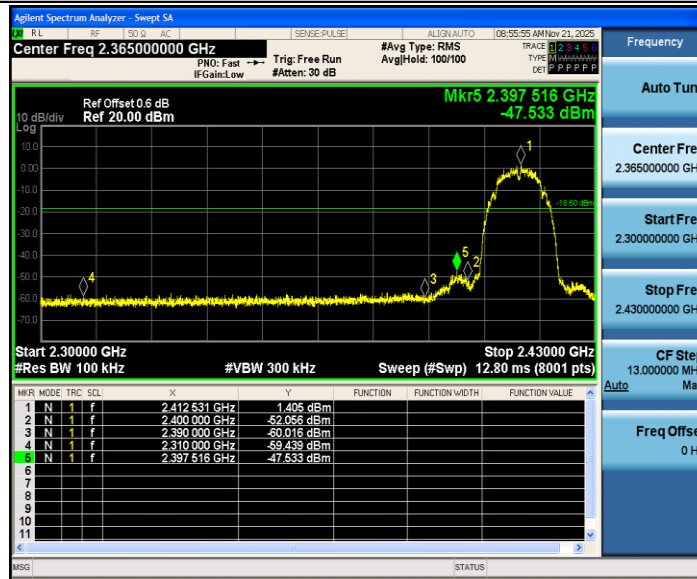
Appendix E: Band edge measurements

Test Result

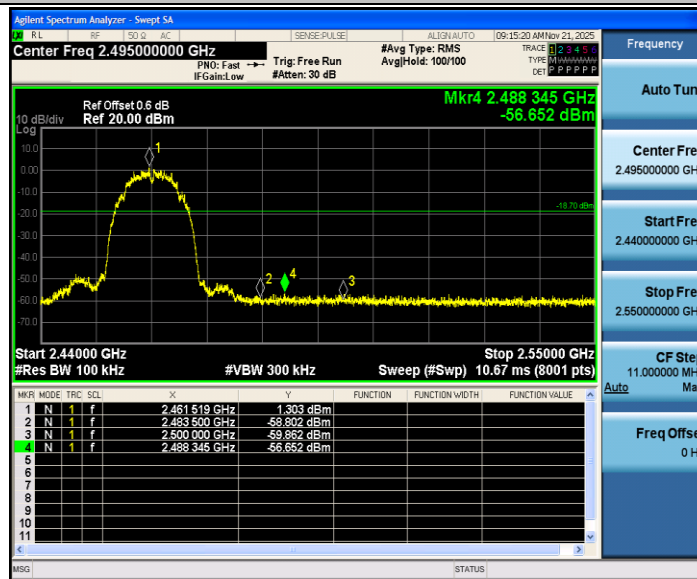
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.41	-47.53	≤-18.6	PASS
		High	2462	1.30	-56.65	≤-18.7	PASS
11G	Ant1	Low	2412	-7.22	-45.87	≤-27.22	PASS
		High	2462	-6.83	-51.17	≤-26.83	PASS
11N20SISO	Ant1	Low	2412	-7.59	-45.69	≤-27.59	PASS
		High	2462	-6.35	-51.3	≤-26.35	PASS

Test Graphs

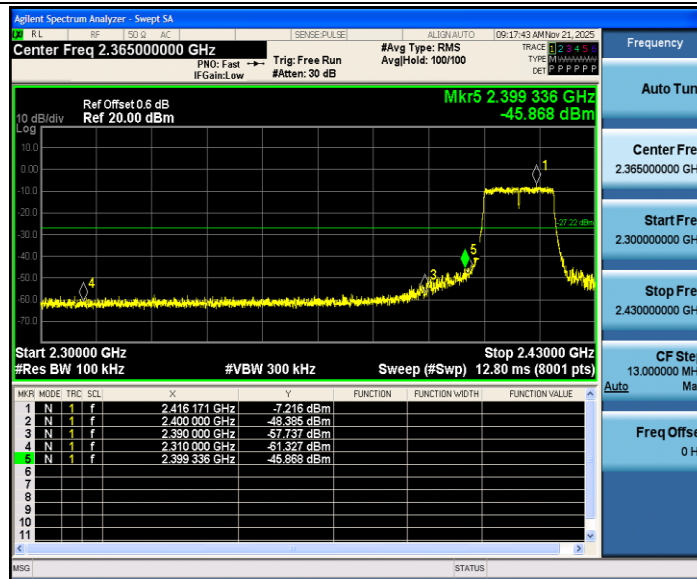
11B_Ant1_Low_2412



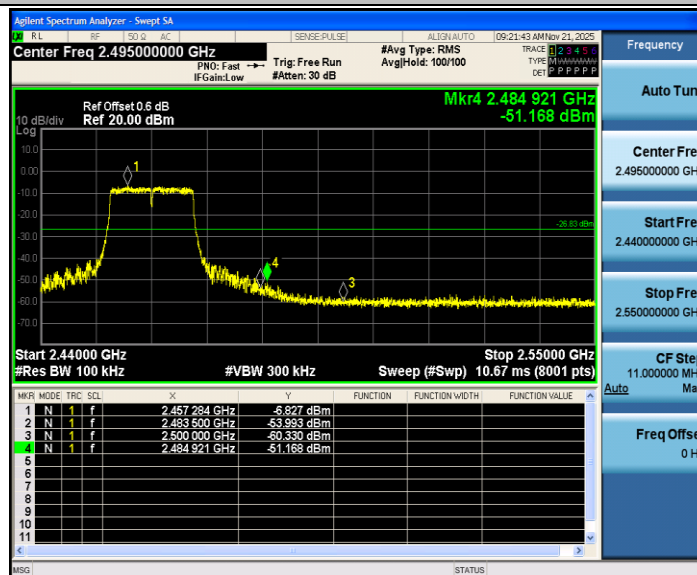
11B_Ant1_High_2462



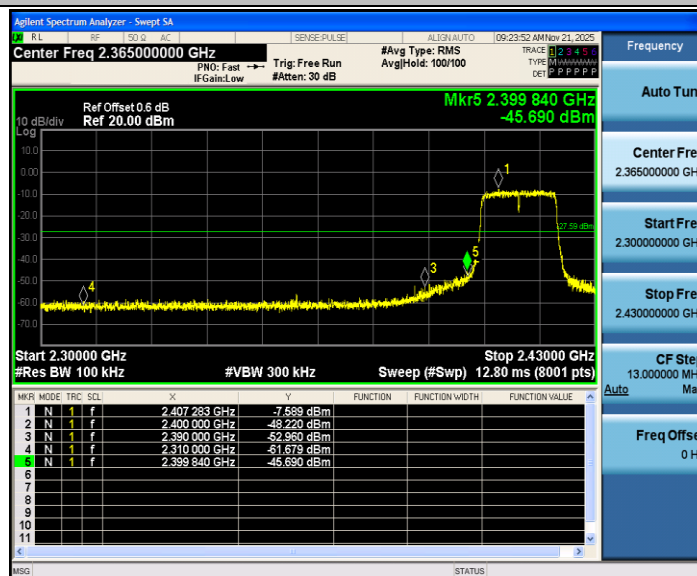
11G_Ant1_Low_2412



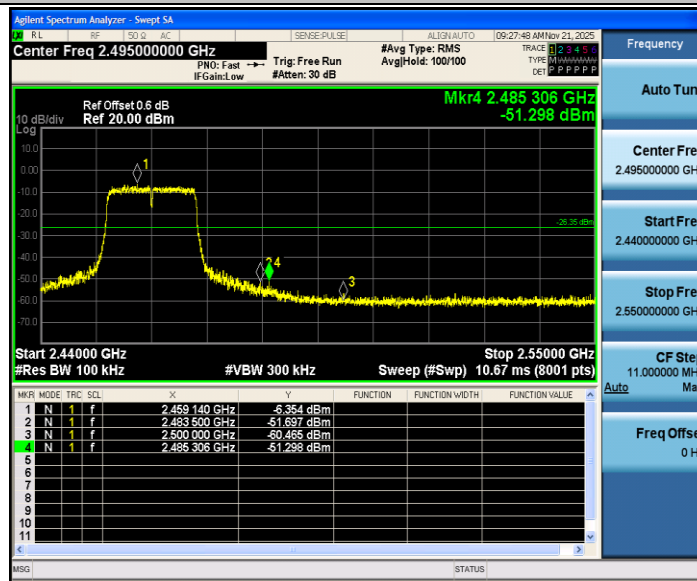
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

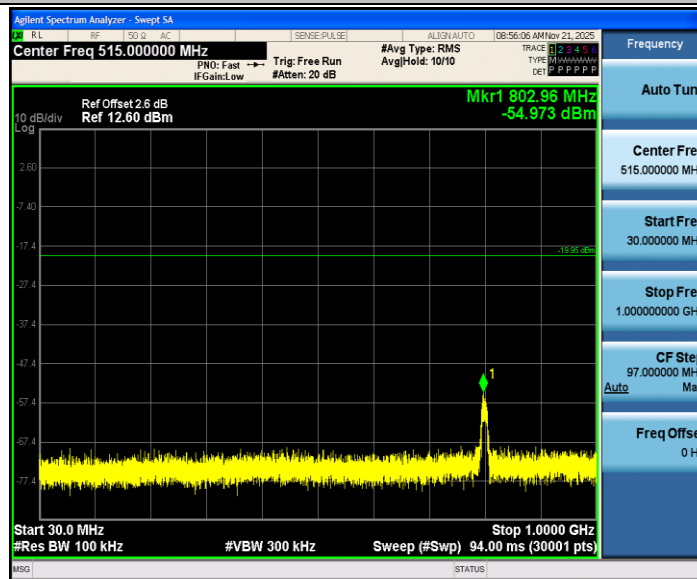
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-54.97	≤-19.95	PASS
			1000~26500	0.05	-43.85	≤-19.95	PASS
		2437	Reference	-0.33	-0.33	---	PASS
			30~1000	-0.33	-56.11	≤-20.33	PASS
			1000~26500	-0.33	-44.78	≤-20.33	PASS
		2462	Reference	-0.48	-0.48	---	PASS
			30~1000	-0.48	-54.78	≤-20.48	PASS
			1000~26500	-0.48	-45.25	≤-20.48	PASS
11G	Ant1	2412	Reference	-8.13	-8.13	---	PASS
			30~1000	-8.13	-58.71	≤-28.13	PASS
			1000~26500	-8.13	-43.82	≤-28.13	PASS
		2437	Reference	-7.30	-7.30	---	PASS
			30~1000	-7.30	-59.29	≤-27.3	PASS
			1000~26500	-7.30	-44.24	≤-27.3	PASS
		2462	Reference	-6.76	-6.76	---	PASS
			30~1000	-6.76	-59.19	≤-26.76	PASS
			1000~26500	-6.76	-44.96	≤-26.76	PASS
11N20SISO	Ant1	2412	Reference	-8.53	-8.53	---	PASS
			30~1000	-8.53	-59.25	≤-28.53	PASS
			1000~26500	-8.53	-43.71	≤-28.53	PASS
		2437	Reference	-6.61	-6.61	---	PASS
			30~1000	-6.61	-60.02	≤-26.61	PASS
			1000~26500	-6.61	-44.26	≤-26.61	PASS
		2462	Reference	-7.50	-7.50	---	PASS
			30~1000	-7.50	-59.94	≤-27.5	PASS
			1000~26500	-7.50	-44.8	≤-27.5	PASS

Test Graphs

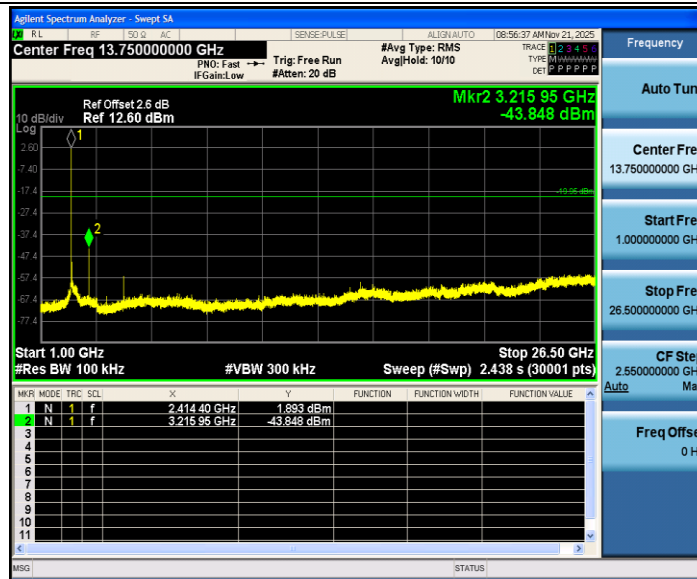
11B_Ant1_2412_0~Reference



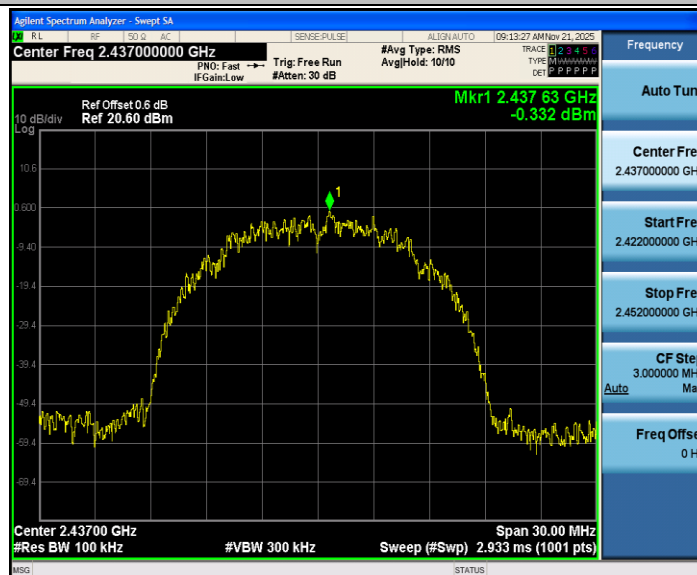
11B_Ant1_2412_30~1000



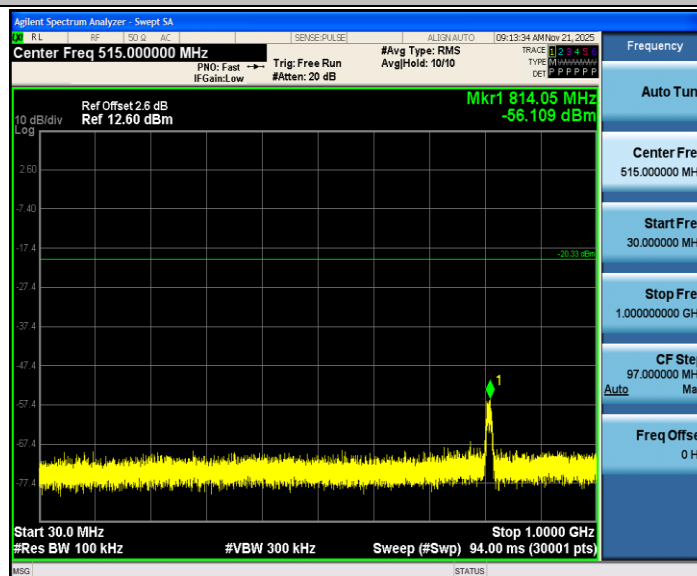
11B_Ant1_2412_1000~26500



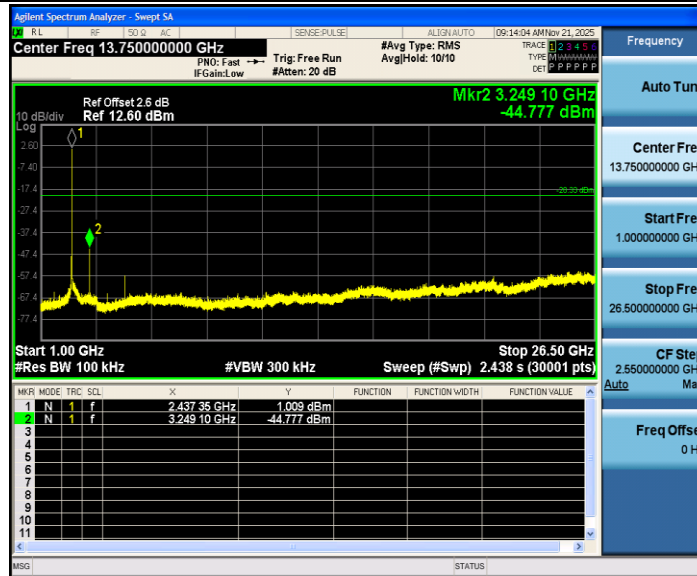
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



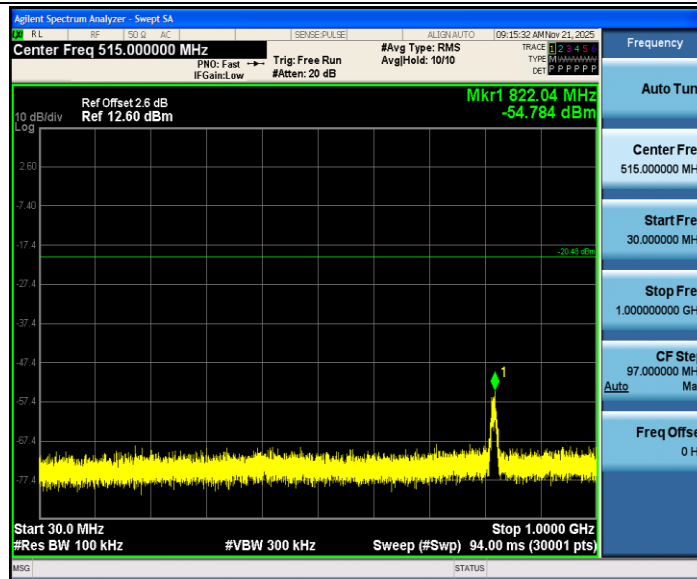
11B_Ant1_2437_1000~26500



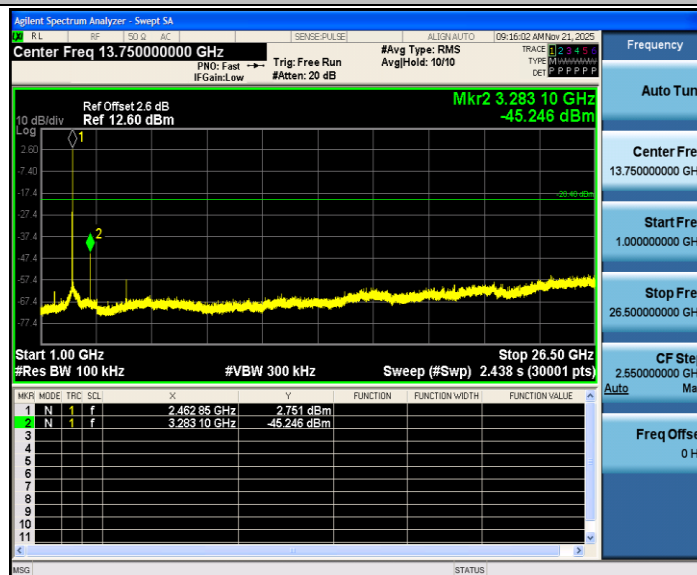
11B_Ant1_2462_0~Reference



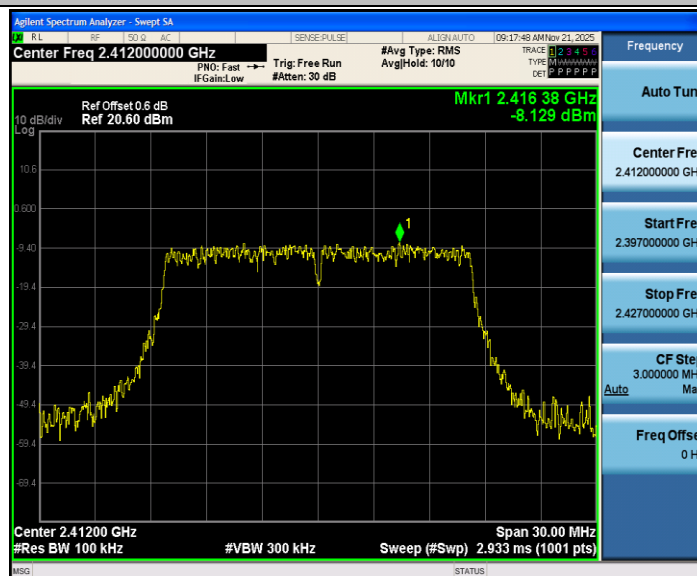
11B_Ant1_2462_30~1000



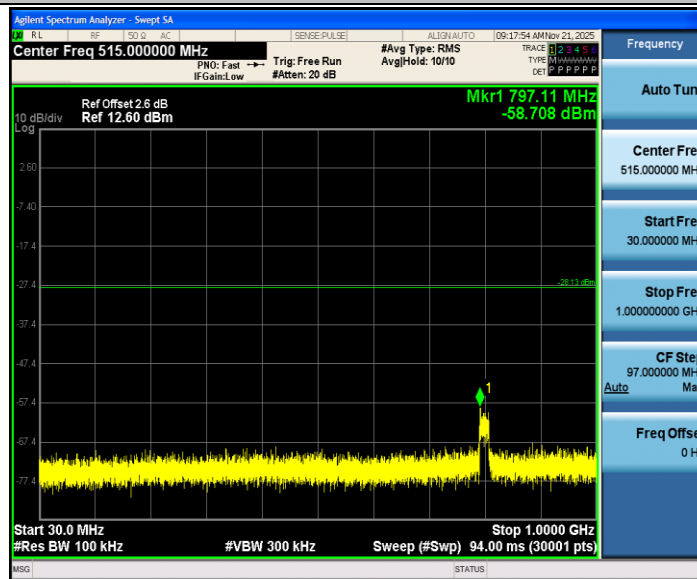
11B_Ant1_2462_1000~26500



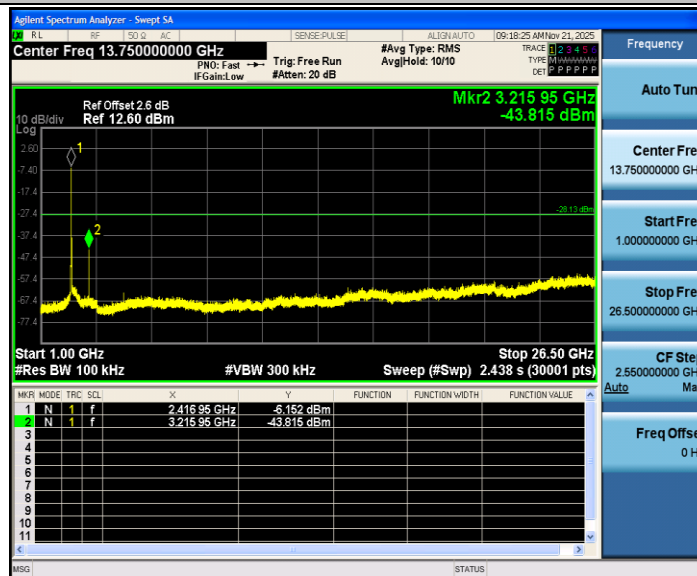
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



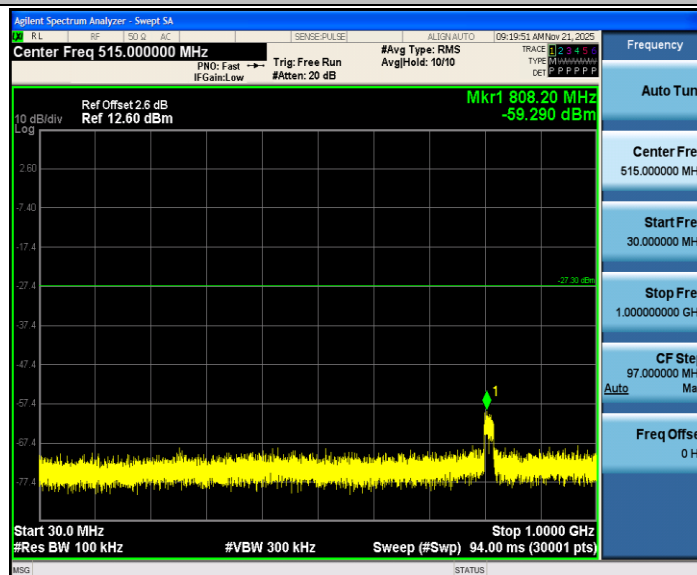
11G_Ant1_2412_1000~26500



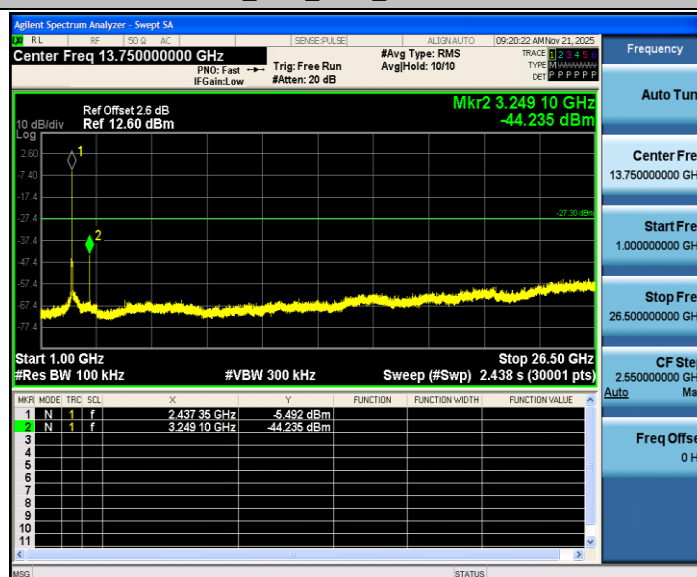
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



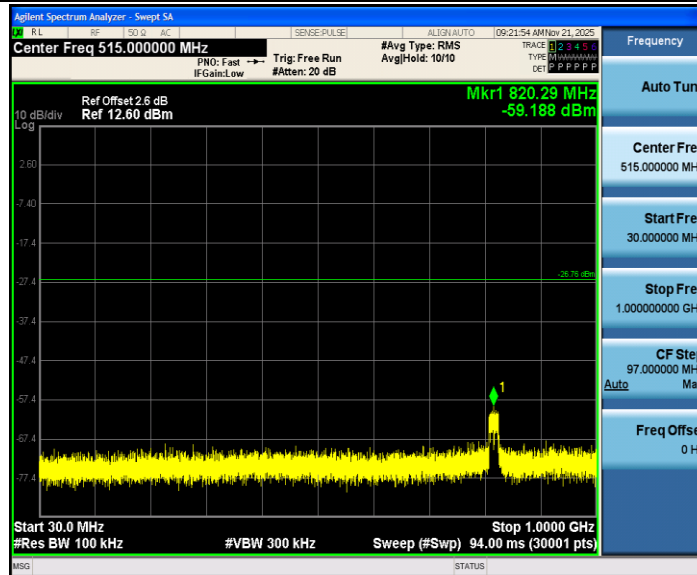
11G_Ant1_2437_1000~26500



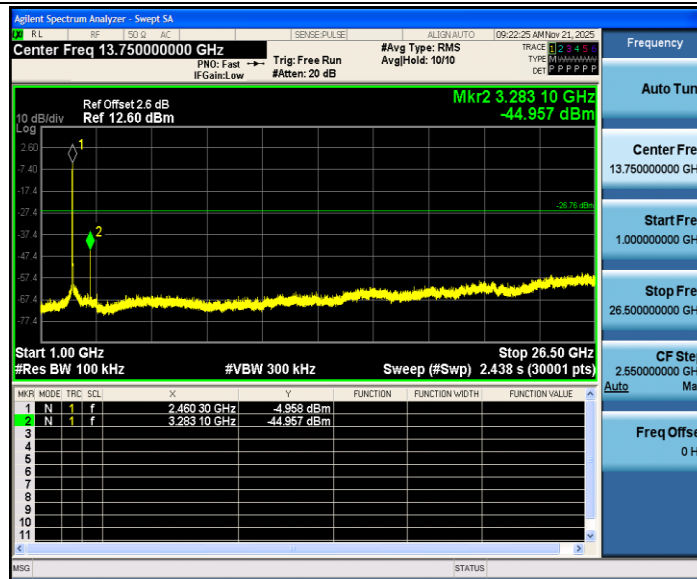
11G_Ant1_2462_0~Reference



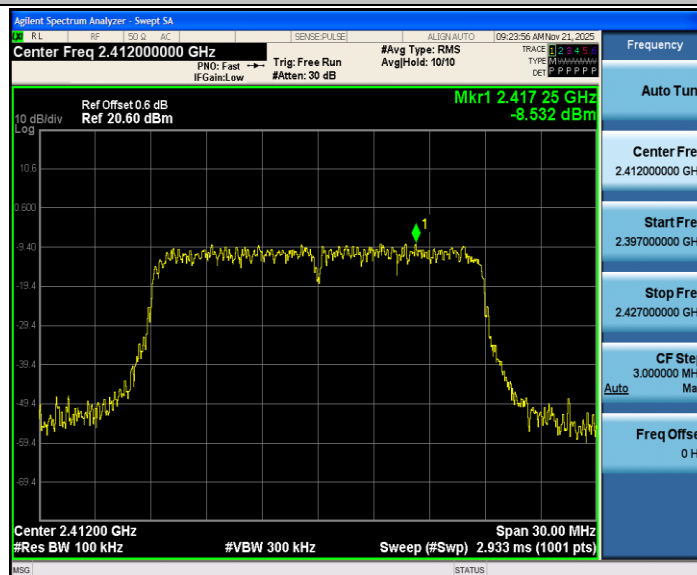
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

