

FCC Appendix RF Test Data

FCC ID : 2BPJF-VIPERGEN2

Company: : Nitehog Bulgaria JSC

EUT : Thermal Imaging Camera

Model Number : Viper GEN2

Report No. : CTA25042701701

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	9.560	2407.480	2417.040	0.5	PASS
		2437	9.560	2432.480	2442.040	0.5	PASS
		2462	9.120	2457.480	2466.600	0.5	PASS
11G	Ant1	2412	15.560	2404.040	2419.600	0.5	PASS
		2437	15.720	2429.440	2445.160	0.5	PASS
		2462	15.720	2453.840	2469.560	0.5	PASS
11N20SISO	Ant1	2412	16.000	2403.680	2419.680	0.5	PASS
		2437	15.960	2429.440	2445.400	0.5	PASS
		2462	16.320	2453.240	2469.560	0.5	PASS

Test Graphs

11B_Ant1_2412



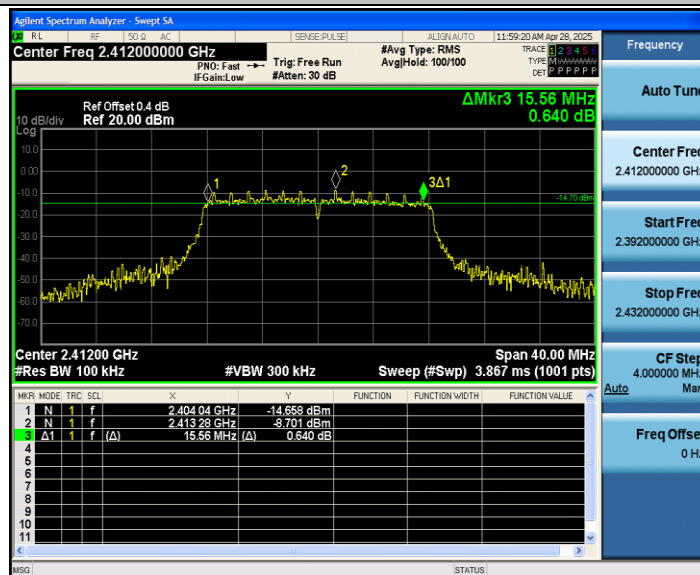
11B_Ant1_2437



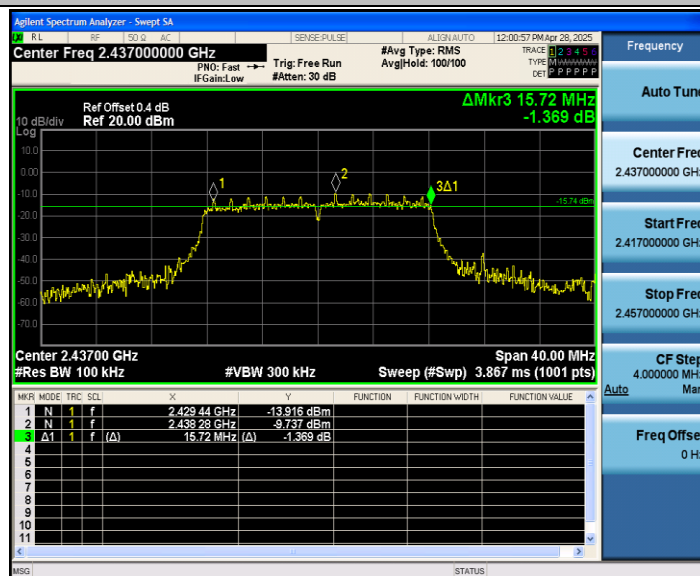
11B_Ant1_2462



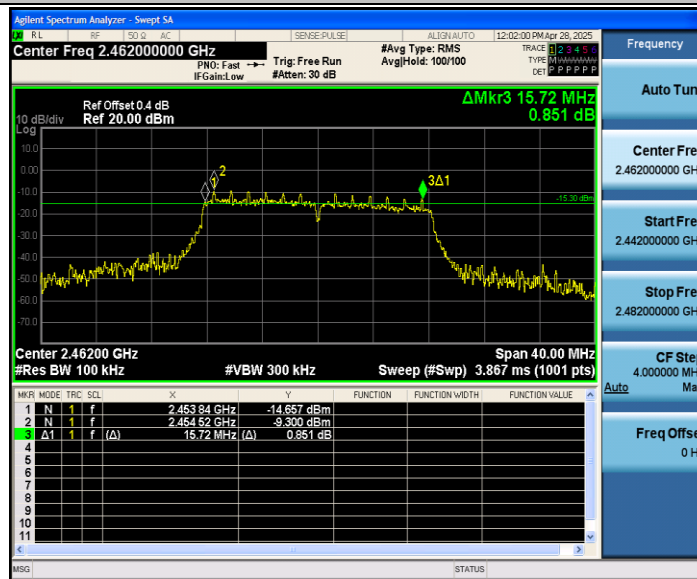
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



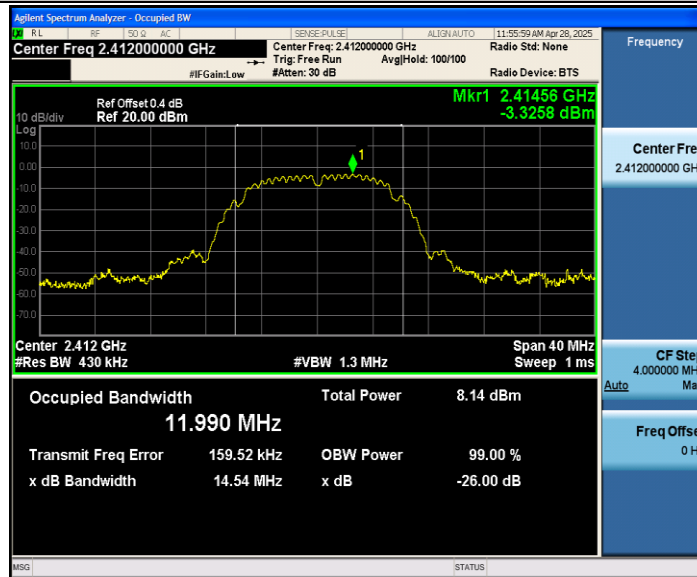
Appendix B: Occupied Channel Bandwidth

Test Result

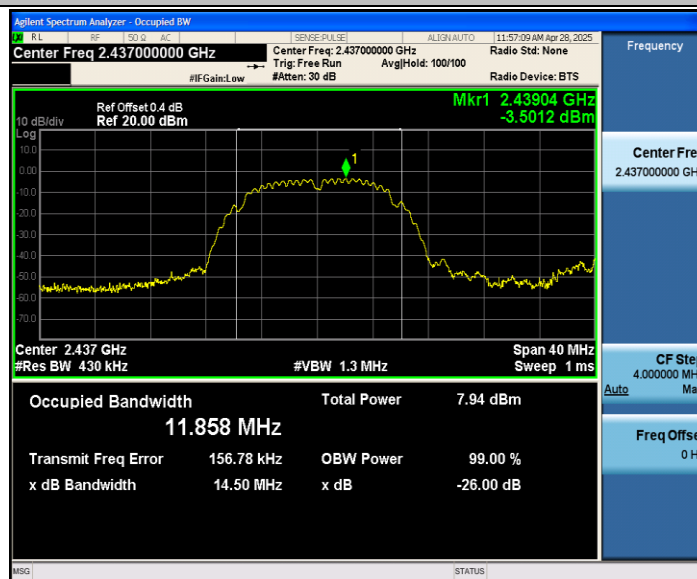
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.990	2406.1645	2418.1545	---	---
		2437	11.858	2431.2278	2443.0858	---	---
		2462	12.016	2456.1147	2468.1307	---	---
11G	Ant1	2412	16.601	2403.6938	2420.2948	---	---
		2437	16.582	2428.8069	2445.3889	---	---
		2462	16.792	2453.4774	2470.2694	---	---
11N20SISO	Ant1	2412	17.586	2403.2180	2420.8040	---	---
		2437	17.657	2428.3152	2445.9722	---	---
		2462	17.776	2452.9892	2470.7652	---	---

Test Graphs

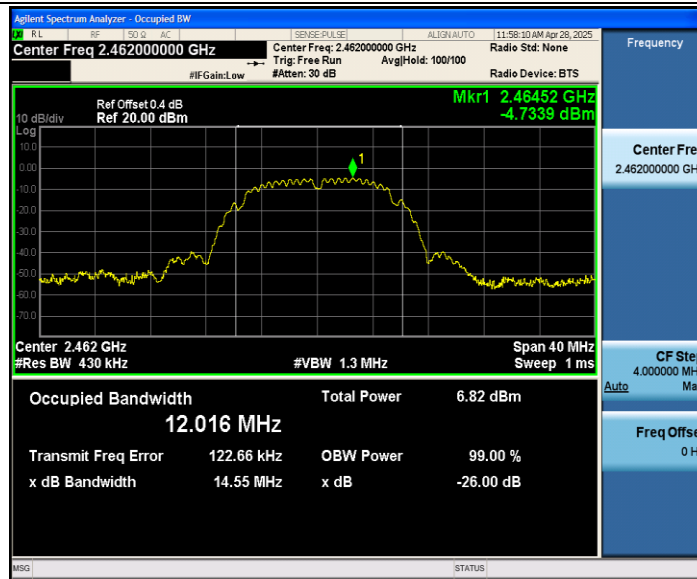
11B_Ant1_2412



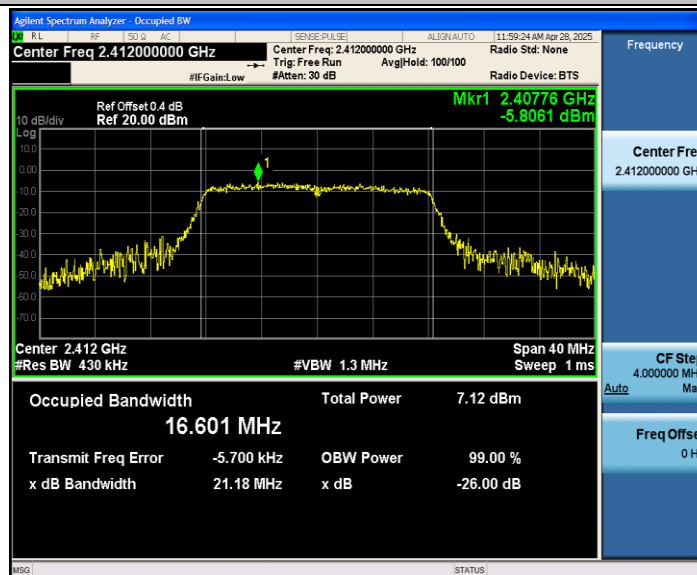
11B_Ant1_2437



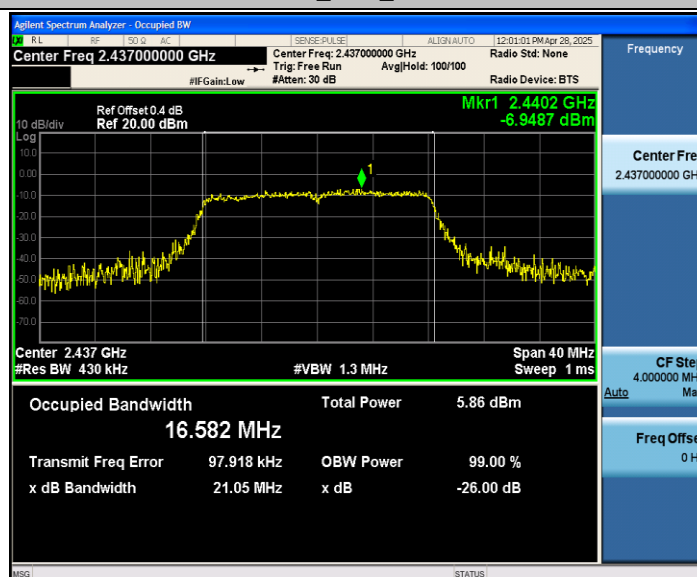
11B_Ant1_2462



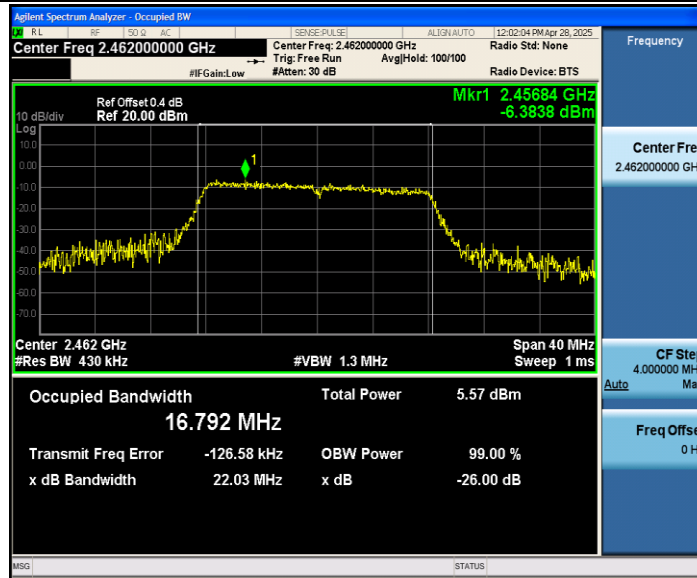
11G_Ant1_2412



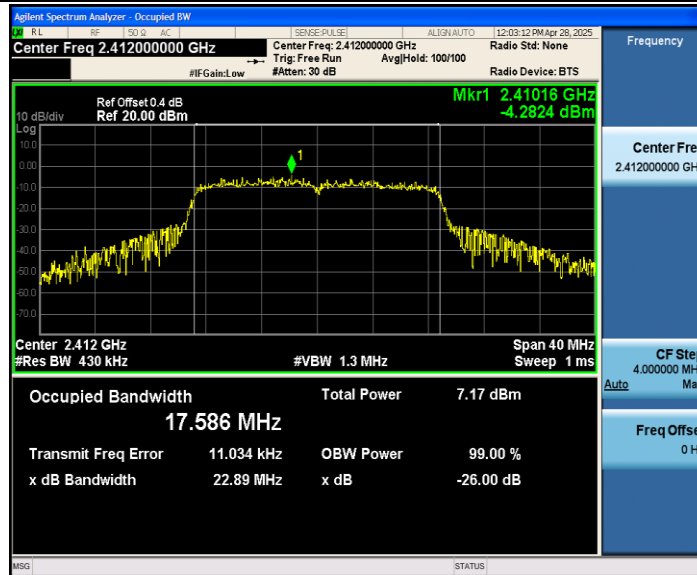
11G_Ant1_2437



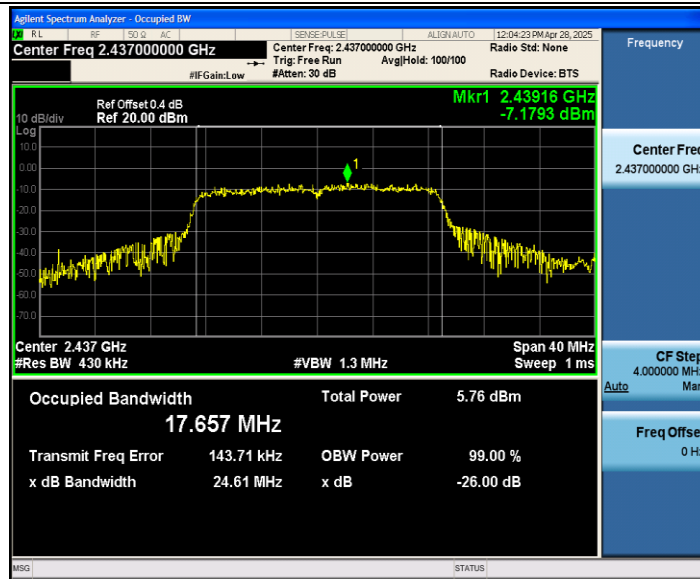
11G_Ant1_2462



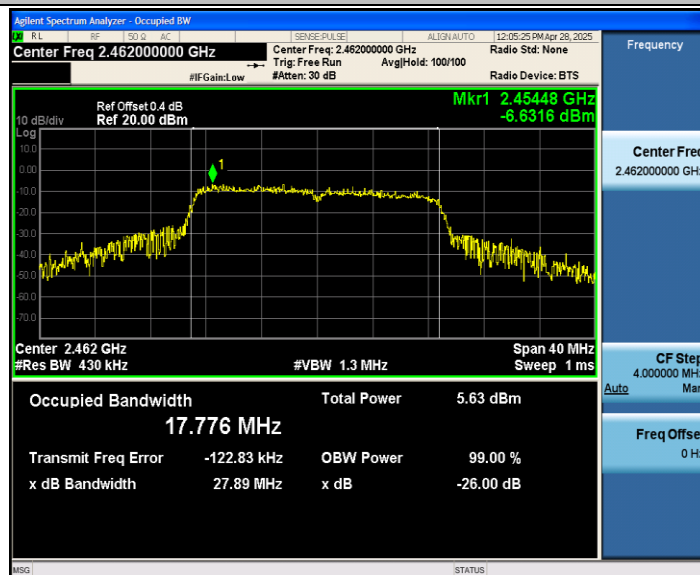
11N20SISO_Ant1_2412



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	8.04	≤30.00	PASS
		2437	7.86	≤30.00	PASS
		2462	6.62	≤30.00	PASS
11G	Ant1	2412	7.73	≤30.00	PASS
		2437	6.61	≤30.00	PASS
		2462	6.19	≤30.00	PASS
11N20SISO	Ant1	2412	7.65	≤30.00	PASS
		2437	6.36	≤30.00	PASS
		2462	6.15	≤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	-16.94	≤8.00	PASS
		2437	-17.27	≤8.00	PASS
		2462	-18.66	≤8.00	PASS
11G	Ant1	2412	-23.26	≤8.00	PASS
		2437	-25.97	≤8.00	PASS
		2462	-25.52	≤8.00	PASS
11N20SISO	Ant1	2412	-24.66	≤8.00	PASS
		2437	-24.88	≤8.00	PASS
		2462	-25.67	≤8.00	PASS

Test Graphs

11B_Ant1_2412



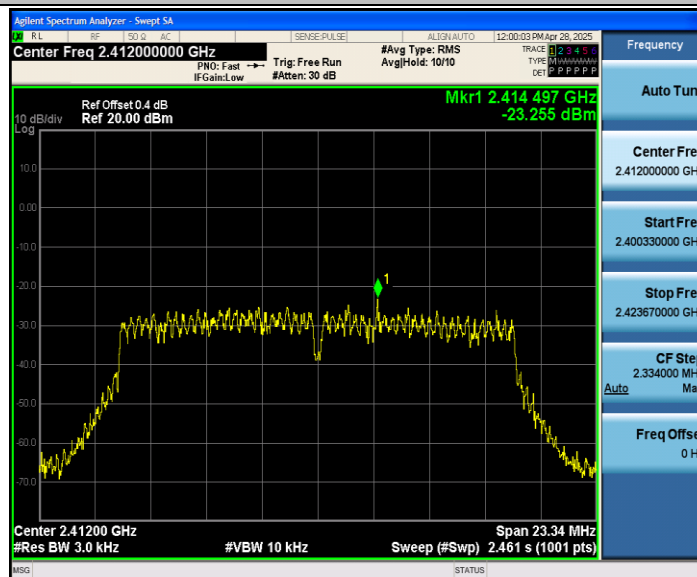
11B_Ant1_2437



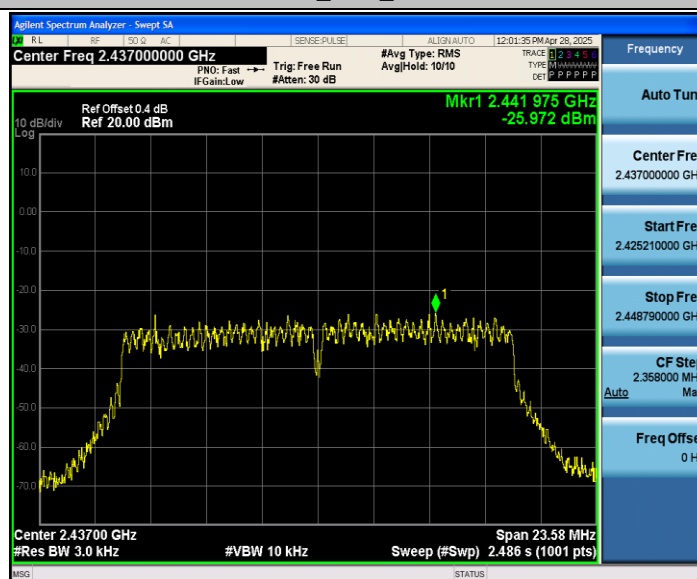
11B_Ant1_2462



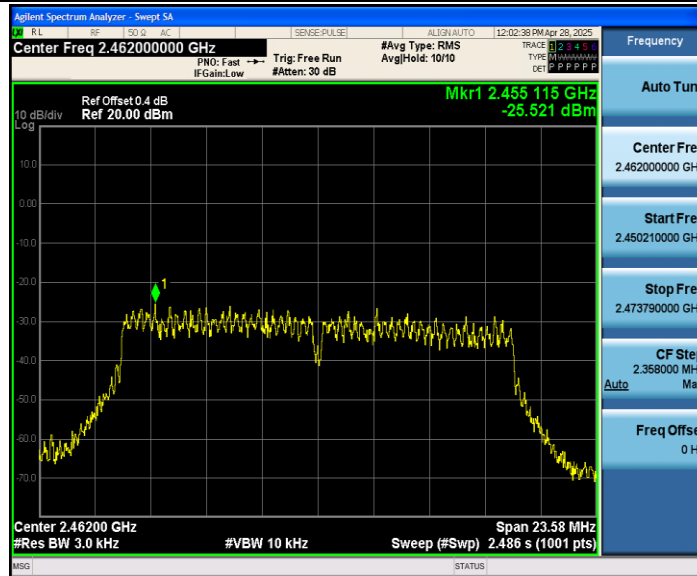
11G_Ant1_2412



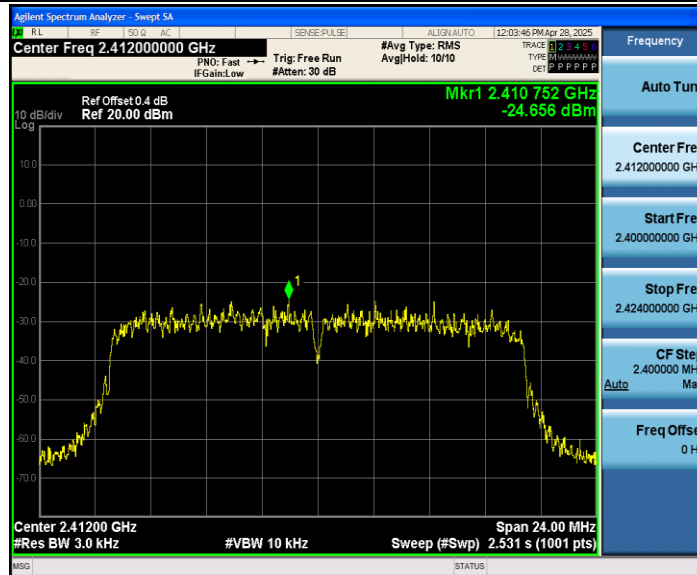
11G_Ant1_2437



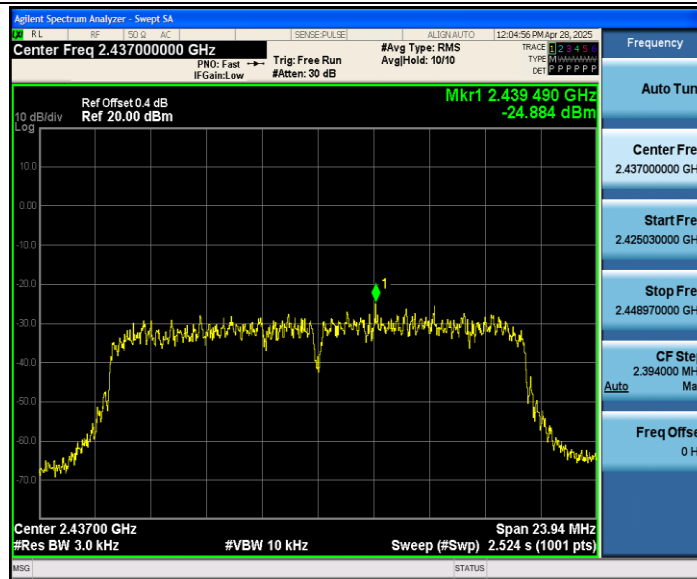
11G_Ant1_2462



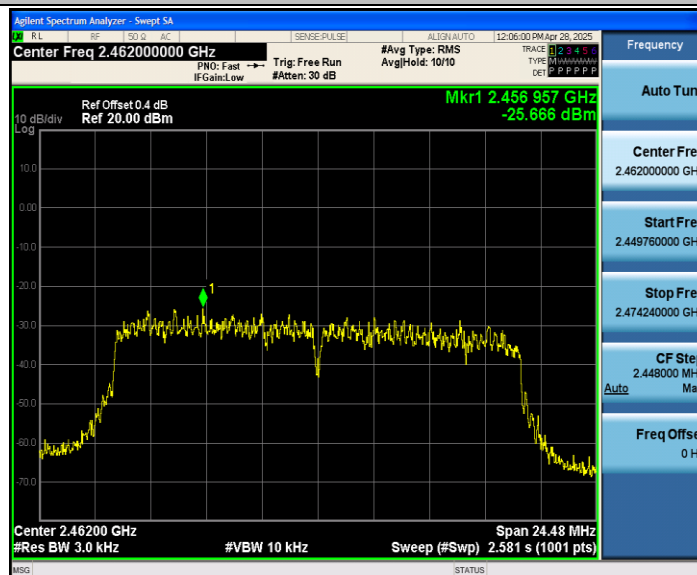
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



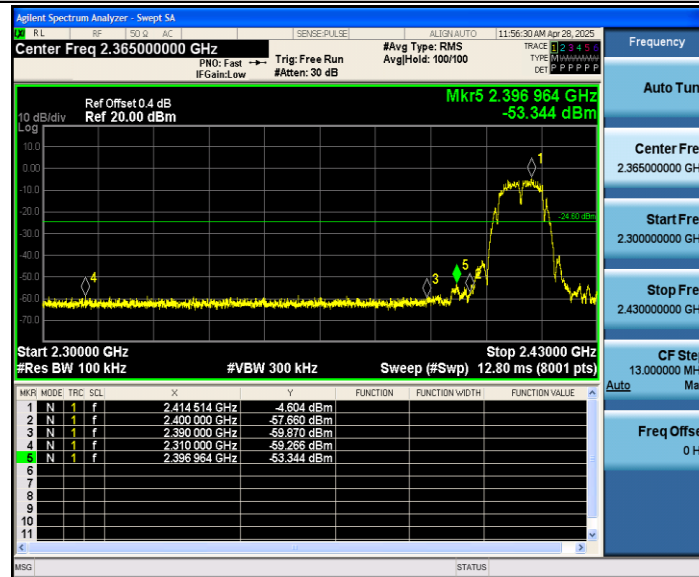
Appendix E: Band edge measurements

Test Result

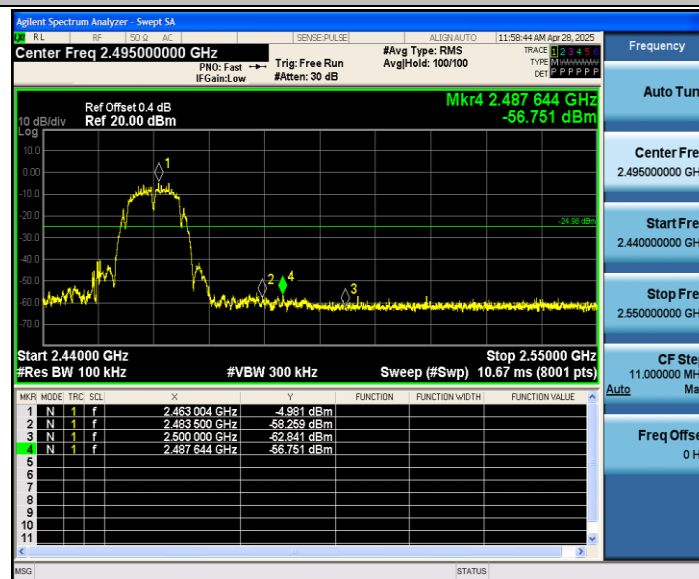
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-4.60	-53.34	≤-24.6	PASS
		High	2462	-4.98	-56.75	≤-24.98	PASS
11G	Ant1	Low	2412	-8.77	-42.57	≤-28.77	PASS
		High	2462	-9.28	-52.4	≤-29.28	PASS
11N20SISO	Ant1	Low	2412	-8.79	-43.13	≤-28.79	PASS
		High	2462	-9.36	-55.44	≤-29.36	PASS

Test Graphs

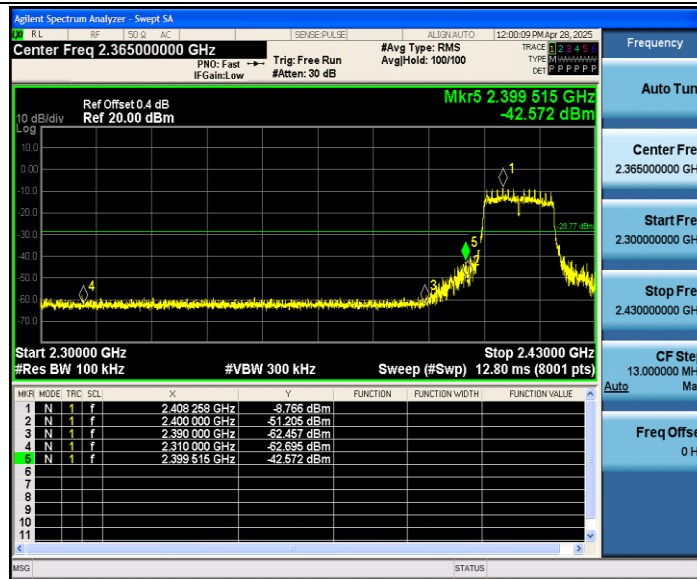
11B_Ant1_Low_2412



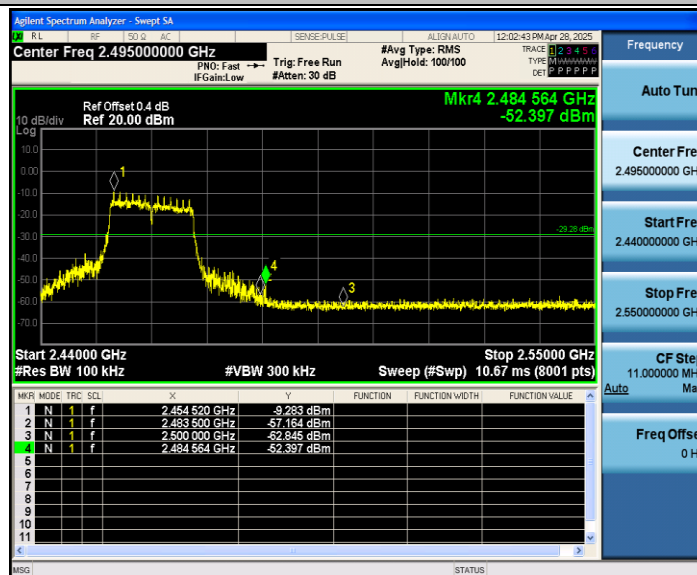
11B_Ant1_High_2462



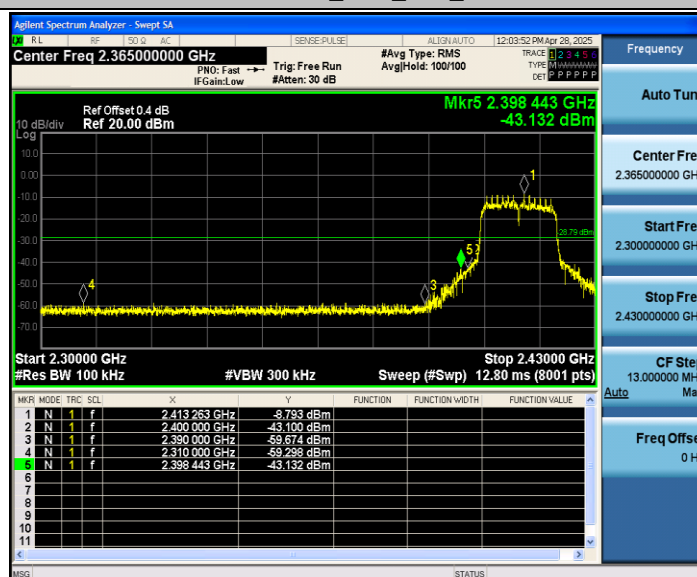
11G_Ant1_Low_2412



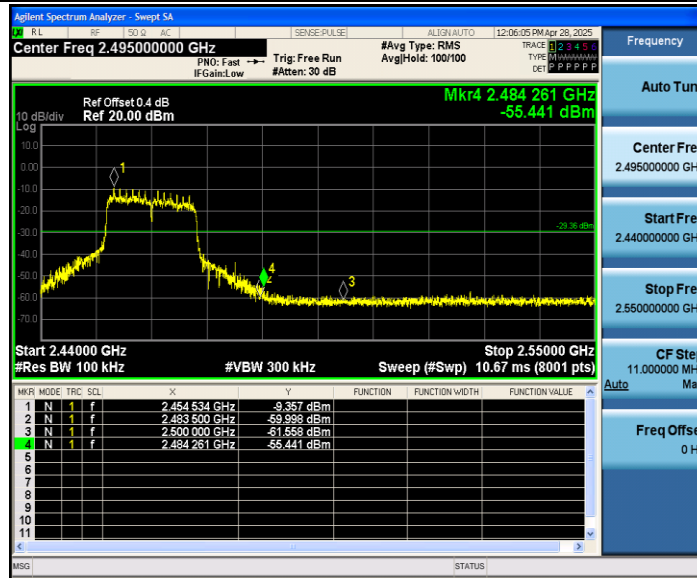
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

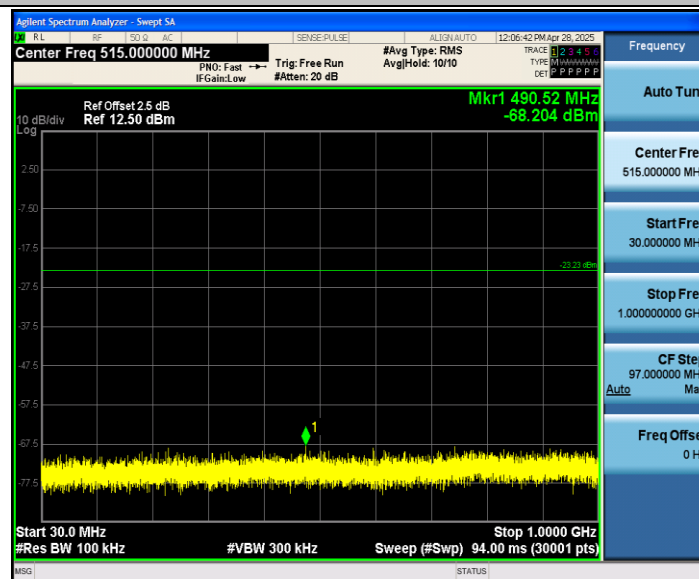
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-3.23	-3.23	---	PASS
			30~1000	-3.23	-68.2	≤-23.23	PASS
			1000~26500	-3.23	-48.66	≤-23.23	PASS
		2437	Reference	-3.58	-3.58	---	PASS
			30~1000	-3.58	-67.47	≤-23.58	PASS
			1000~26500	-3.58	-47.48	≤-23.58	PASS
		2462	Reference	-2.83	-2.83	---	PASS
			30~1000	-2.83	-68.37	≤-22.83	PASS
			1000~26500	-2.83	-42.26	≤-22.83	PASS
11G	Ant1	2412	Reference	-6.62	-6.62	---	PASS
			30~1000	-6.62	-67.84	≤-26.62	PASS
			1000~26500	-6.62	-42.27	≤-26.62	PASS
		2437	Reference	-8.04	-8.04	---	PASS
			30~1000	-8.04	-67.86	≤-28.04	PASS
			1000~26500	-8.04	-51.29	≤-28.04	PASS
		2462	Reference	-8.37	-8.37	---	PASS
			30~1000	-8.37	-67.88	≤-28.37	PASS
			1000~26500	-8.37	-52.6	≤-28.37	PASS
11N20SISO	Ant1	2412	Reference	-6.83	-6.83	---	PASS
			30~1000	-6.83	-67.6	≤-26.83	PASS
			1000~26500	-6.83	-55.1	≤-26.83	PASS
		2437	Reference	-7.41	-7.41	---	PASS
			30~1000	-7.41	-68.39	≤-27.41	PASS
			1000~26500	-7.41	-46.75	≤-27.41	PASS
		2462	Reference	-8.01	-8.01	---	PASS
			30~1000	-8.01	-66.89	≤-28.01	PASS
			1000~26500	-8.01	-54.91	≤-28.01	PASS

Test Graphs

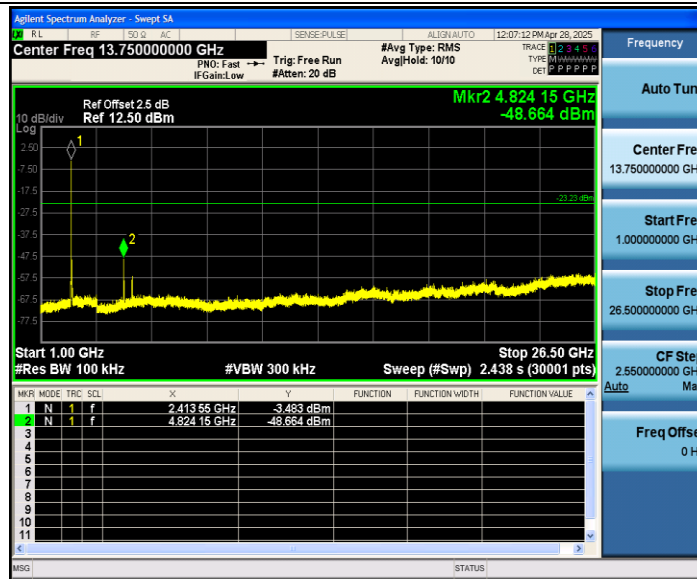
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



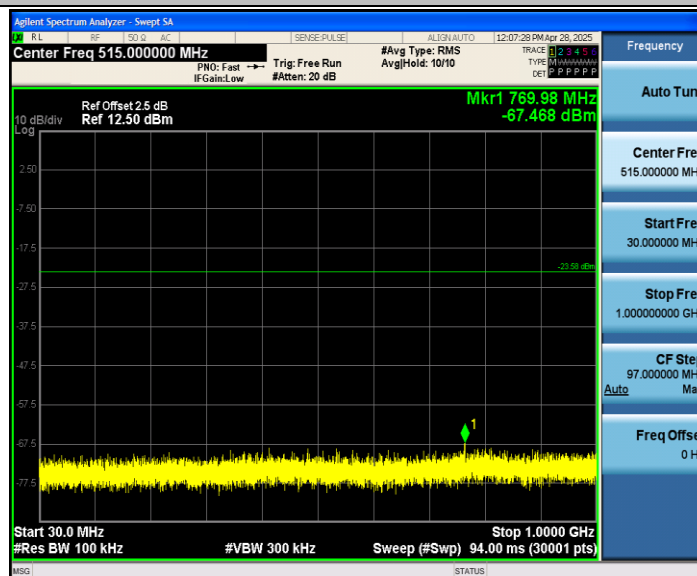
11B_Ant1_2412_1000~26500



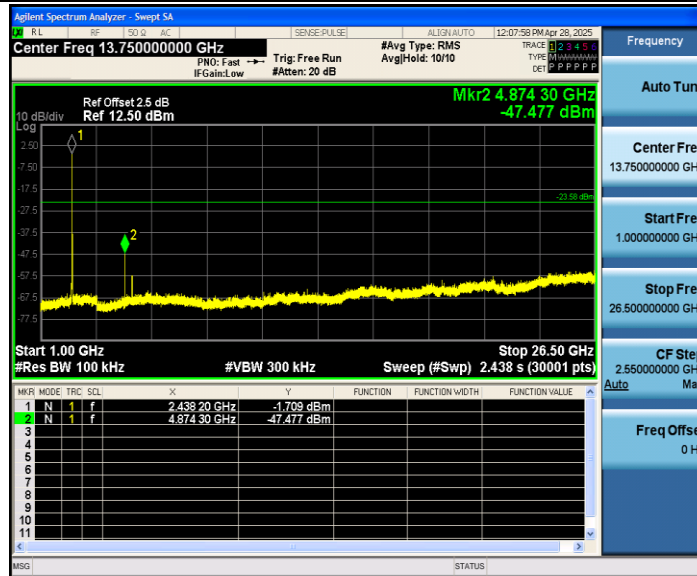
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



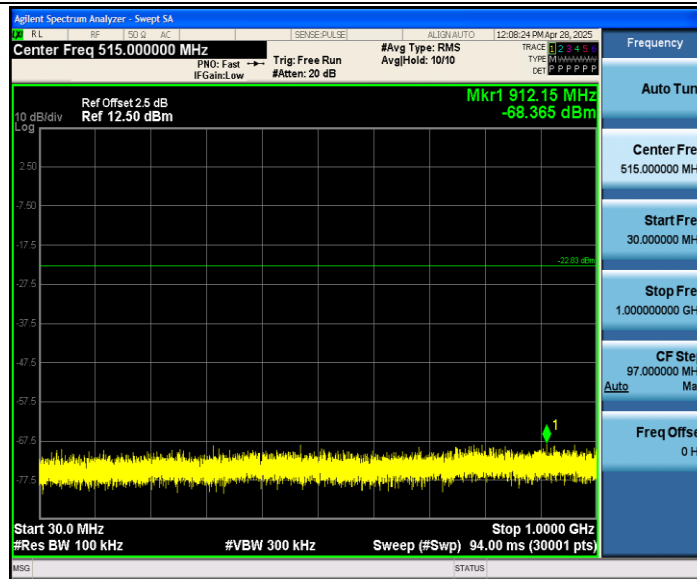
11B_Ant1_2437_1000~26500



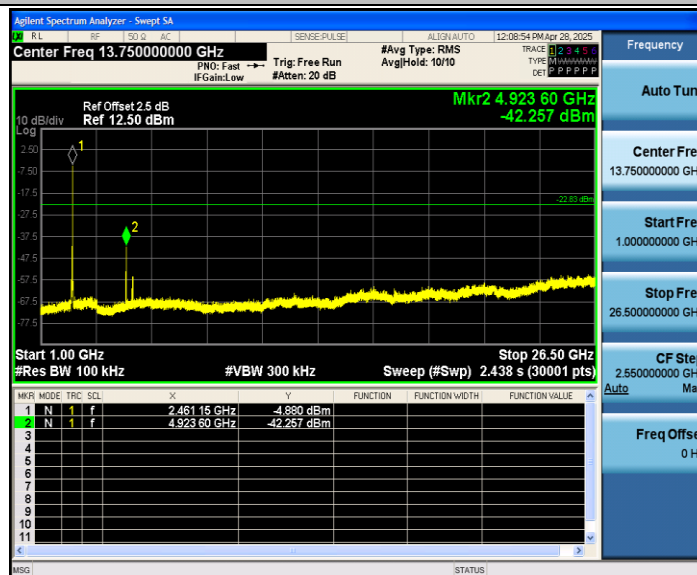
11B_Ant1_2462_0~Reference



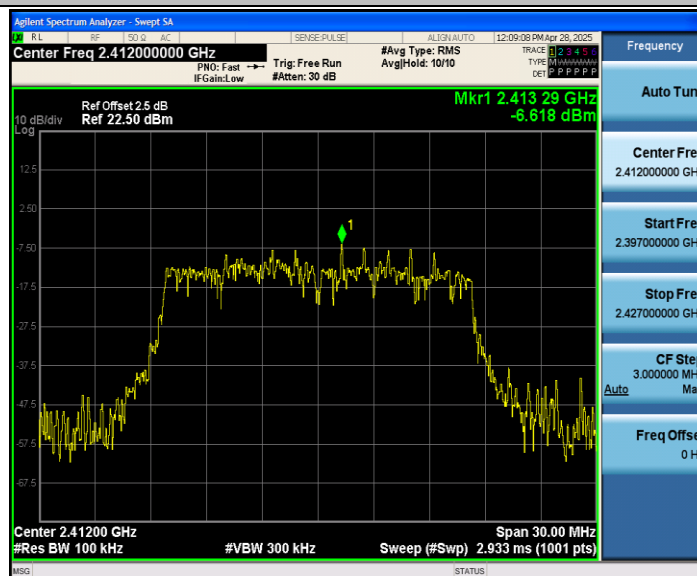
11B_Ant1_2462_30~1000



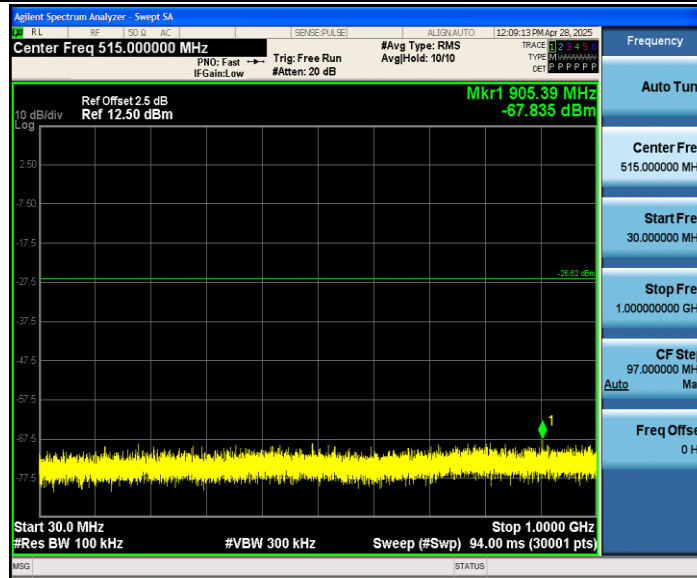
11B_Ant1_2462_1000~26500



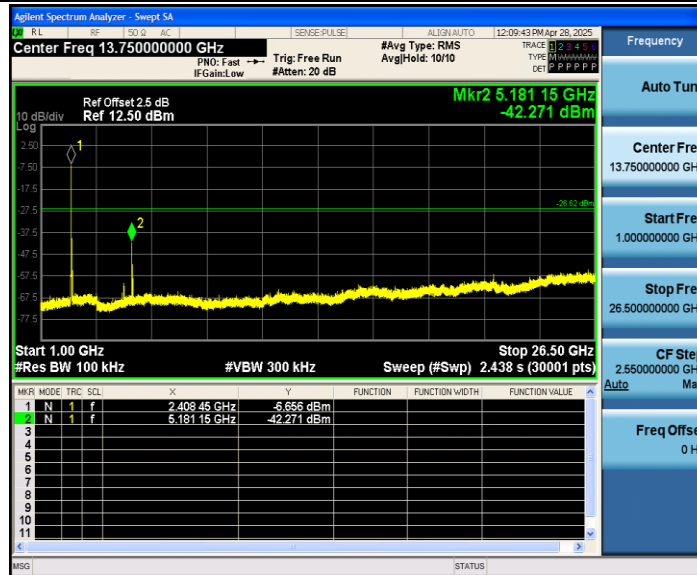
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



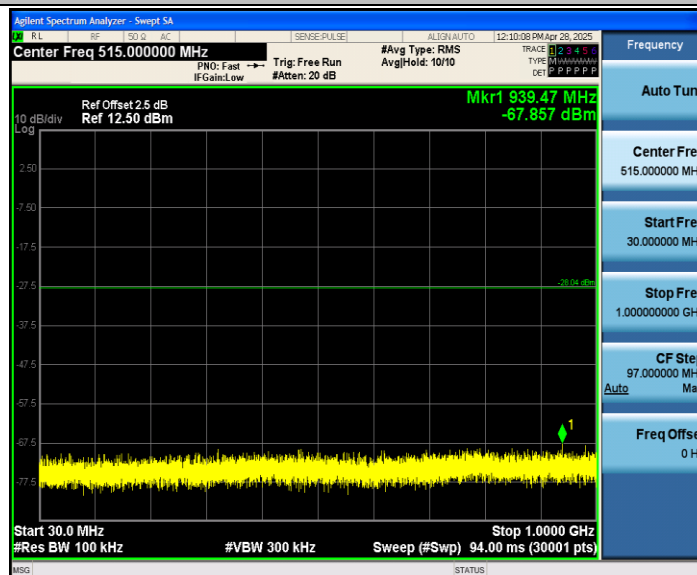
11G_Ant1_2412_1000~26500



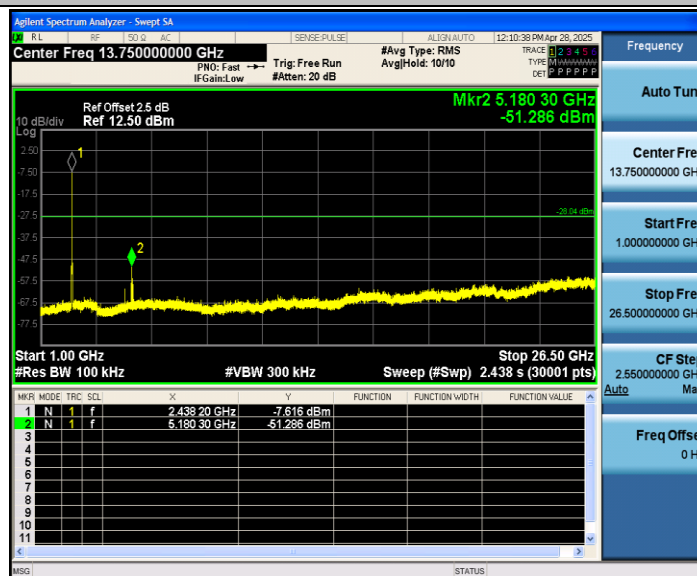
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



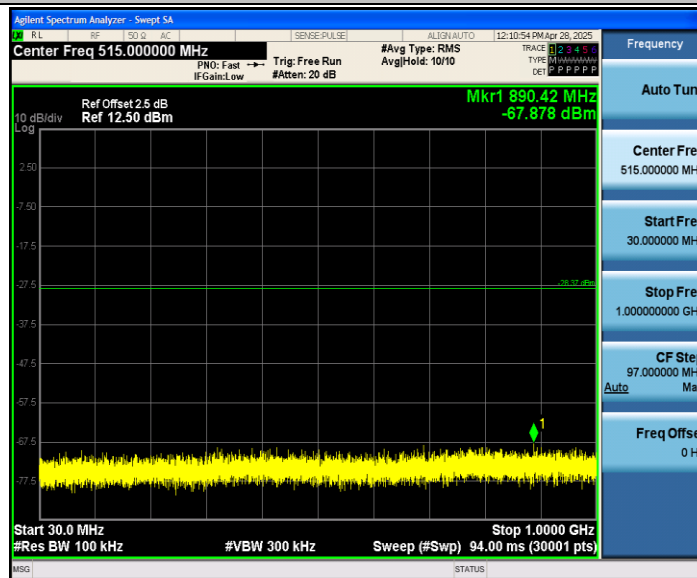
11G_Ant1_2437_1000~26500



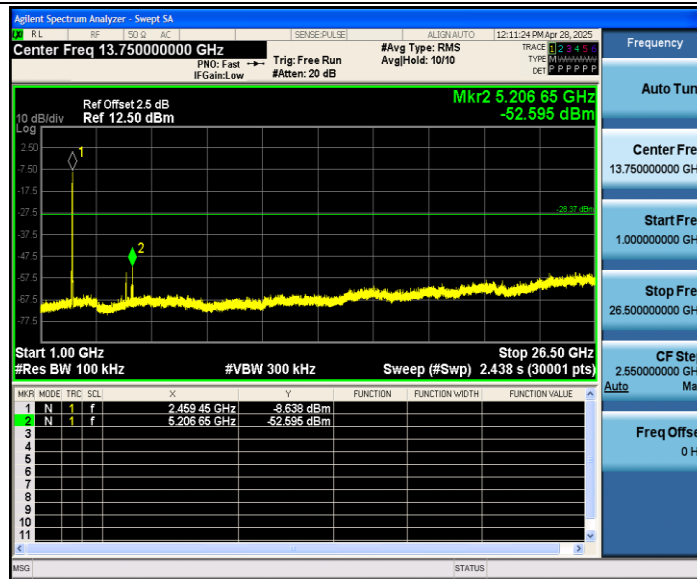
11G_Ant1_2462_0~Reference



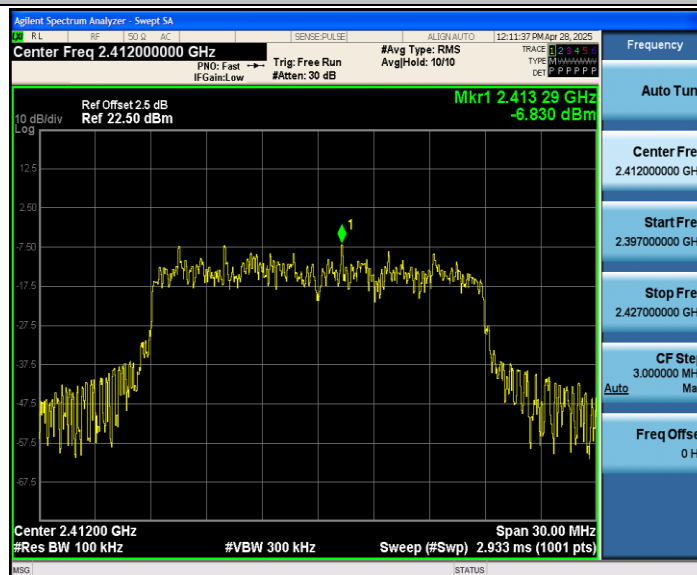
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

