

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2ACGT-TLN002

Company : Guangzhou Shangke Information Technology Co., Ltd.

EUT : Mini PC

Model Number : TLN001

Report No. : CTA26073001603

Reviewed By : Eric Wang

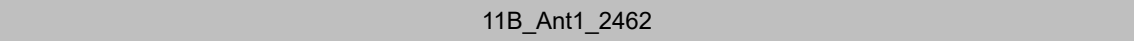
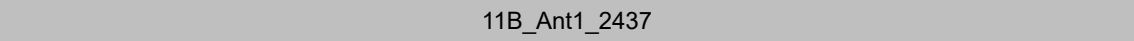
Appendix RF Test Data for 2.4GWIFI Antenna 1

Appendix A: DTS Bandwidth

Test Result

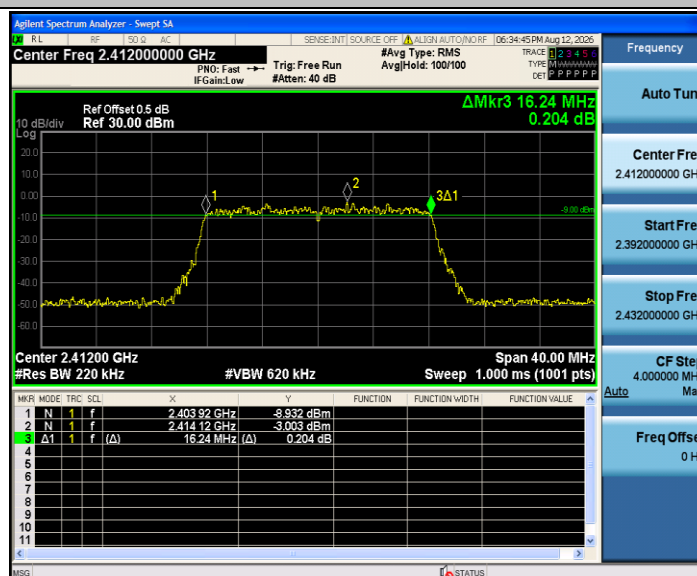
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.920	2417.120	0.5	PASS
		2437	11.160	2431.000	2442.160	0.5	PASS
		2462	11.120	2456.040	2467.160	0.5	PASS
11G	Ant1	2412	16.240	2403.920	2420.160	0.5	PASS
		2437	16.320	2428.880	2445.200	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.280	2420.800	0.5	PASS
		2437	17.360	2428.280	2445.640	0.5	PASS
		2462	17.560	2453.240	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.240	2403.920	2440.160	0.5	PASS
		2437	36.080	2418.920	2455.000	0.5	PASS
		2452	36.080	2434.000	2470.080	0.5	PASS

11B_Ant1_2412

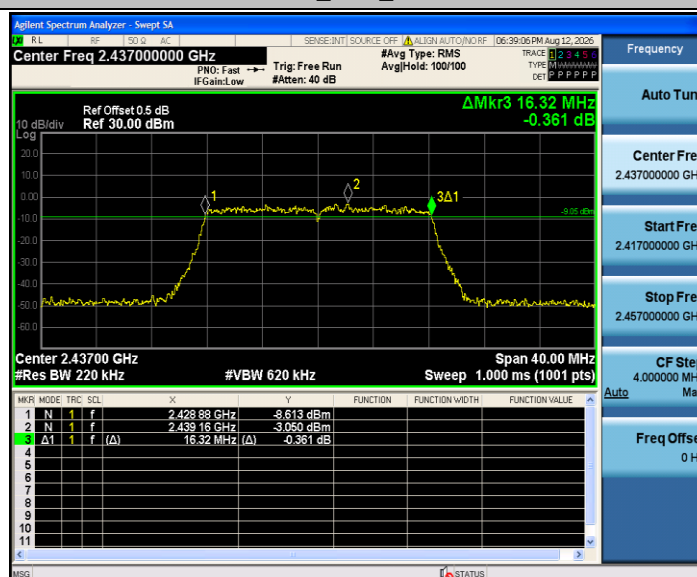




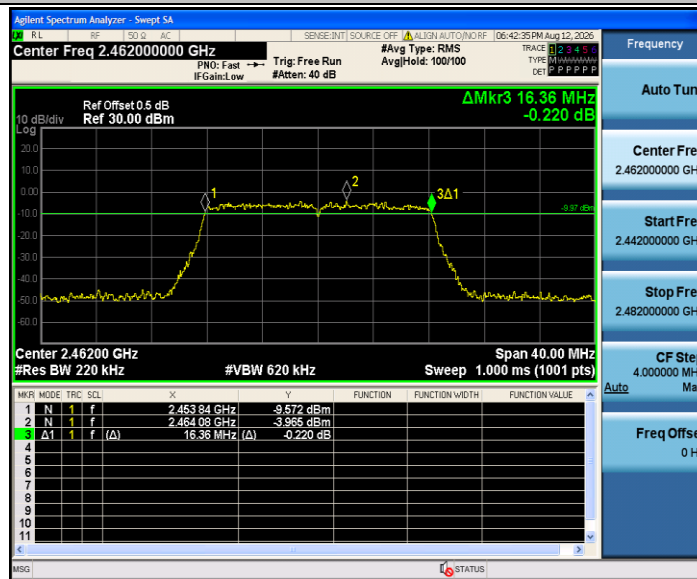
11G_Ant1_2412



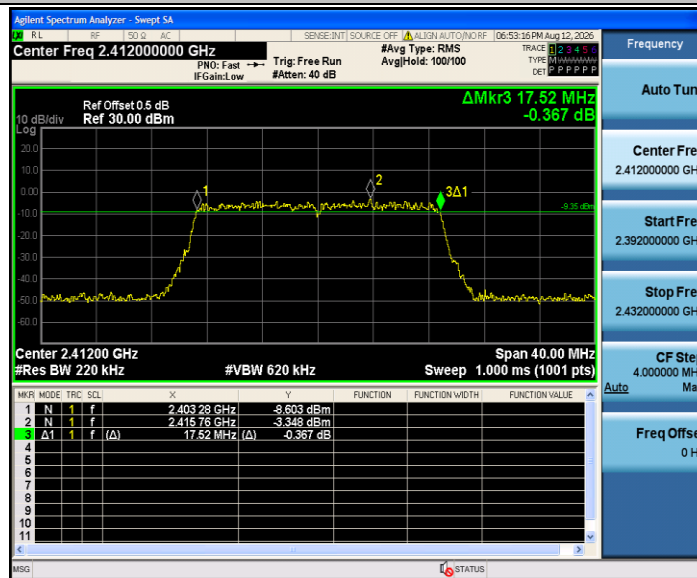
11G_Ant1_2437



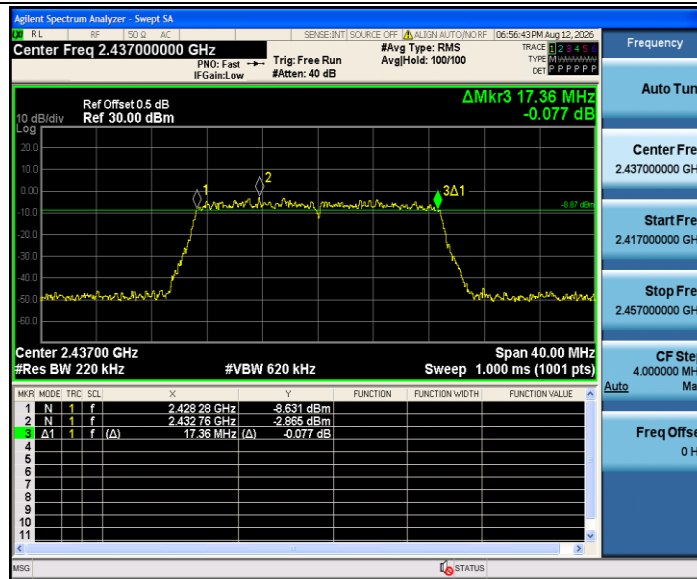
11G_Ant1_2462



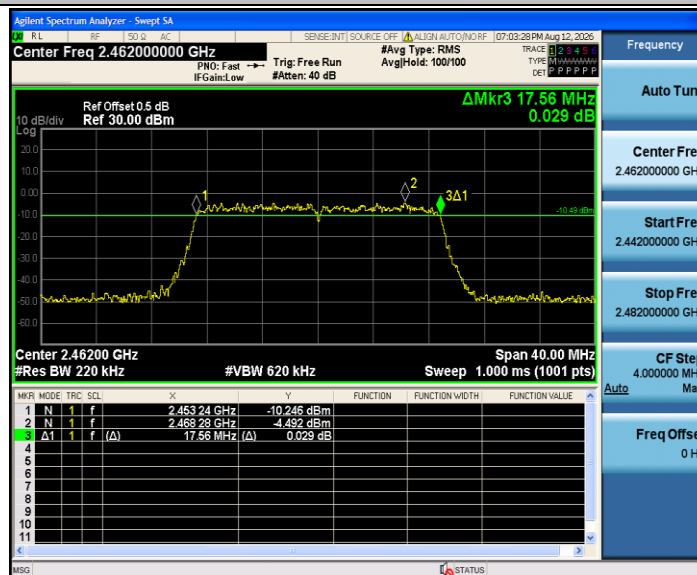
11N20SISO_Ant1_2412



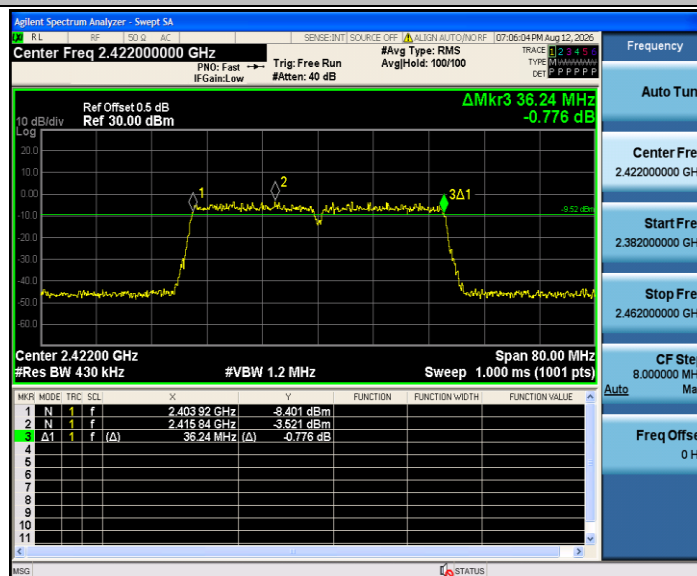
11N20SISO_Ant1_2437



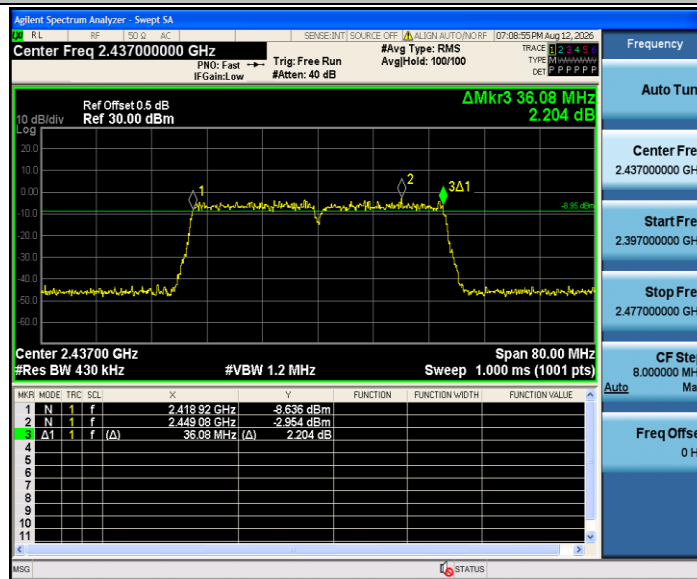
11N20SISO_Ant1_2462



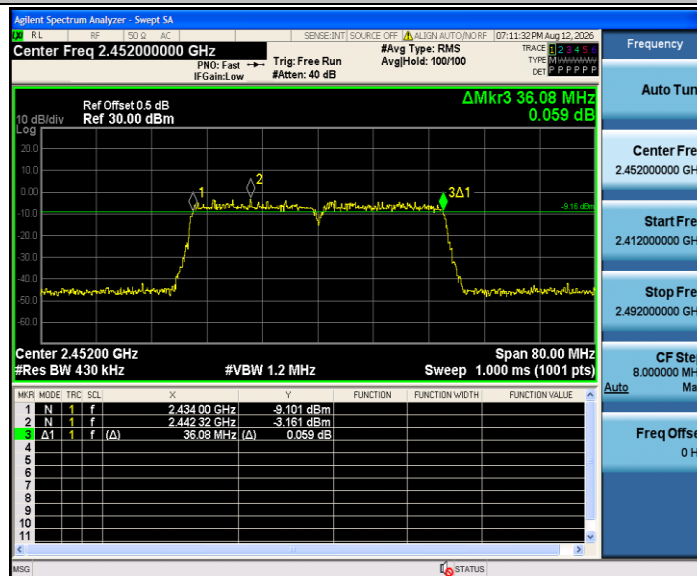
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



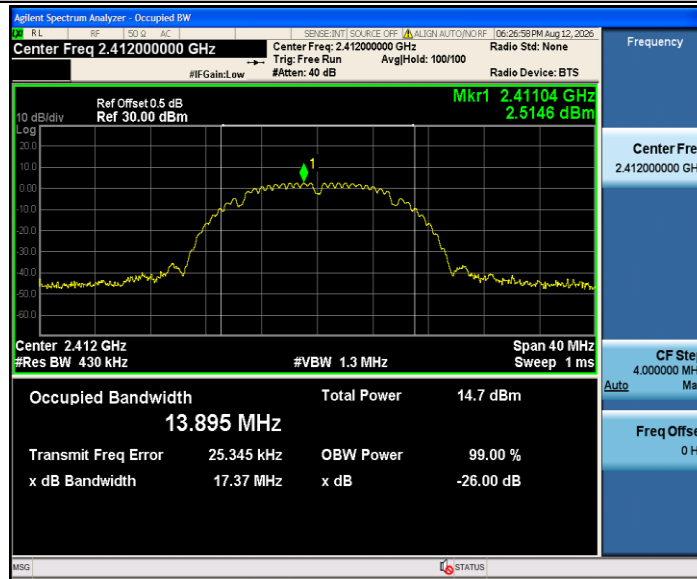
Appendix B: Occupied Channel Bandwidth

Test Result

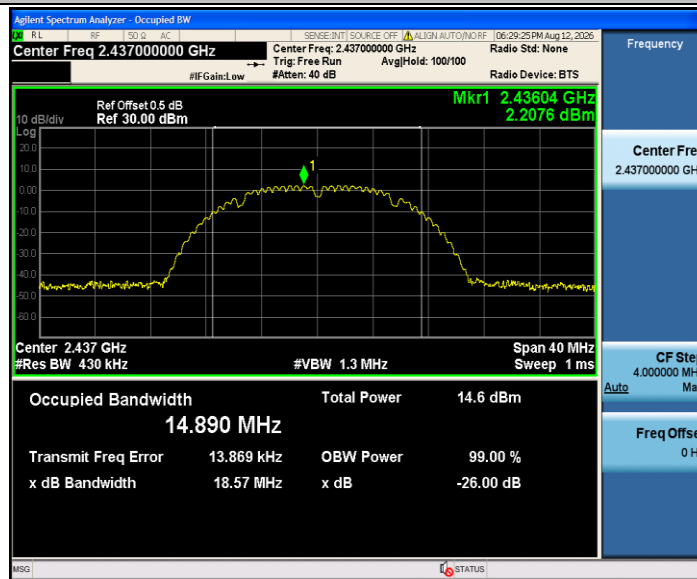
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.895	2405.0779	2418.9729	---	---
		2437	14.890	2429.5689	2444.4589	---	---
		2462	14.880	2454.5581	2469.4381	---	---
11G	Ant1	2412	16.498	2403.7881	2420.2861	---	---
		2437	16.471	2428.7697	2445.2407	---	---
		2462	16.508	2453.7618	2470.2698	---	---
11N20SISO	Ant1	2412	17.596	2403.2125	2420.8085	---	---
		2437	17.627	2428.2053	2445.8323	---	---
		2462	17.598	2453.2125	2470.8105	---	---
11N40SISO	Ant1	2422	36.232	2403.9452	2440.1772	---	---
		2437	36.211	2418.8947	2455.1057	---	---
		2452	36.291	2433.8975	2470.1885	---	---

Test Graphs

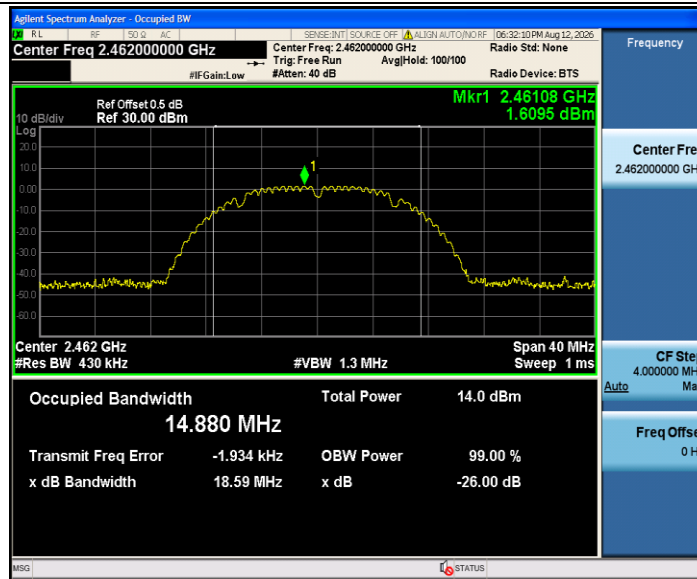
11B_Ant1_2412



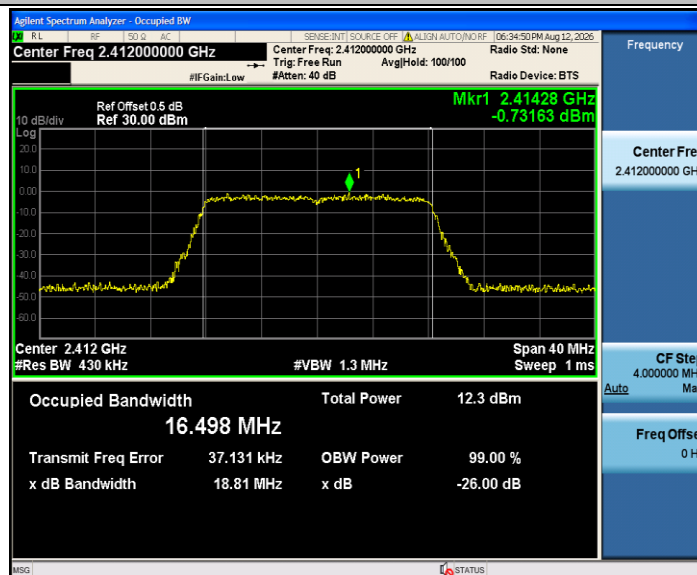
11B_Ant1_2437



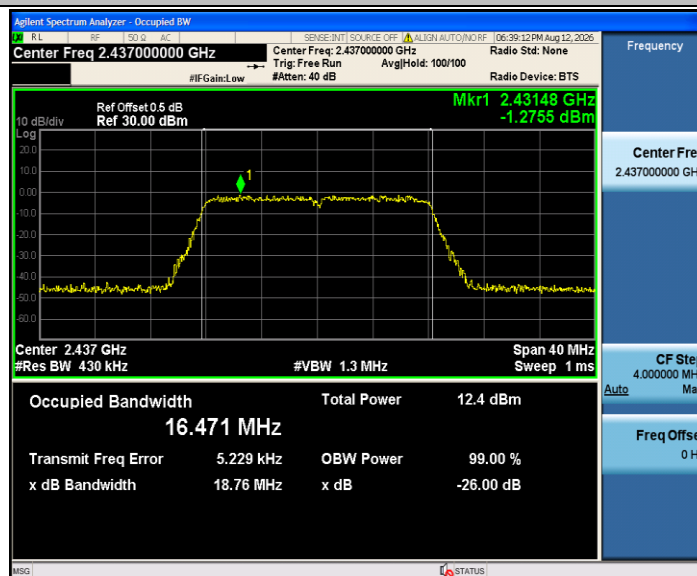
11B_Ant1_2462



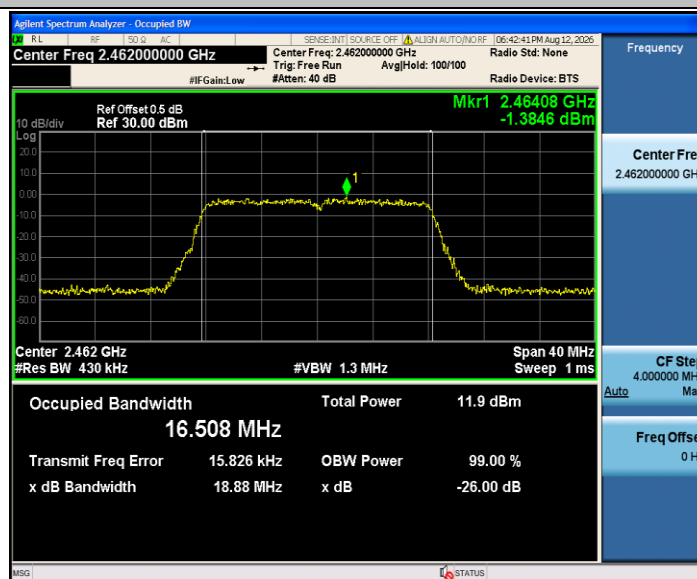
11G_Ant1_2412



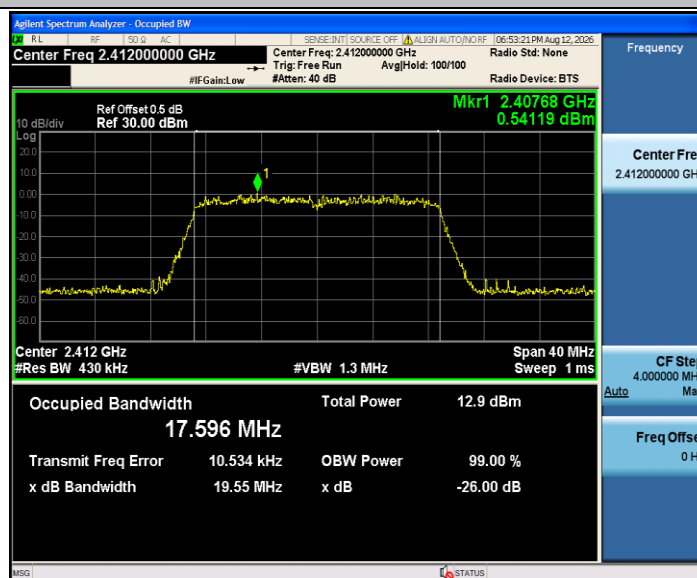
11G_Ant1_2437



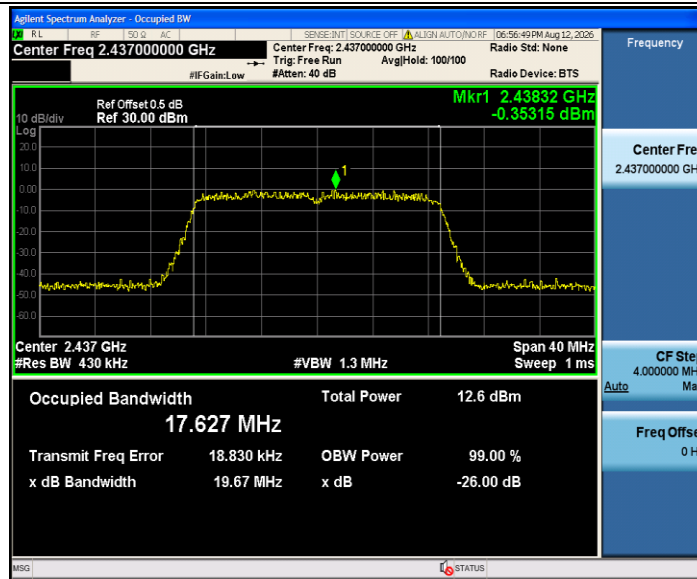
11G_Ant1_2462



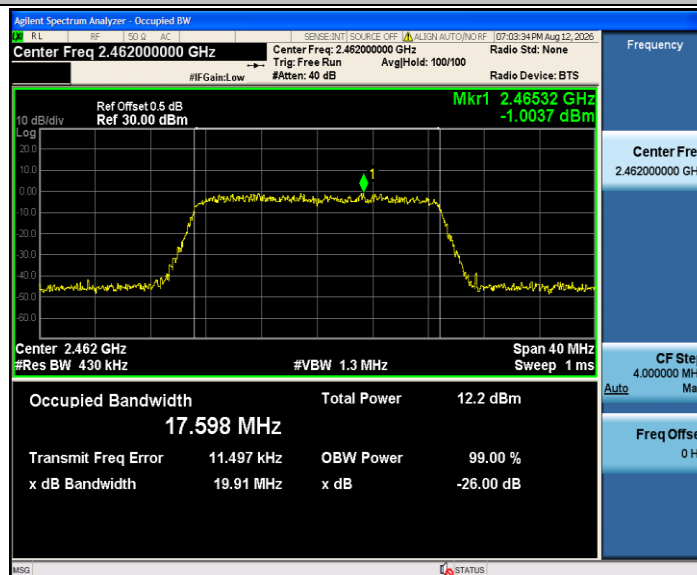
11N20SISO_Ant1_2412



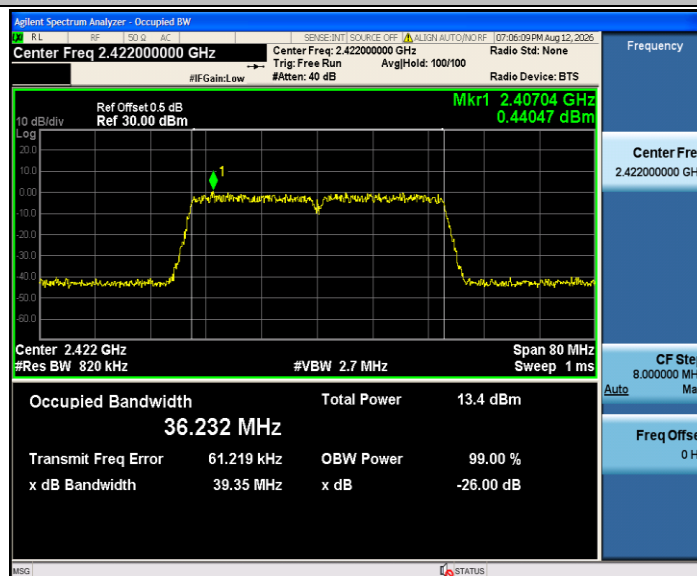
11N20SISO_Ant1_2437



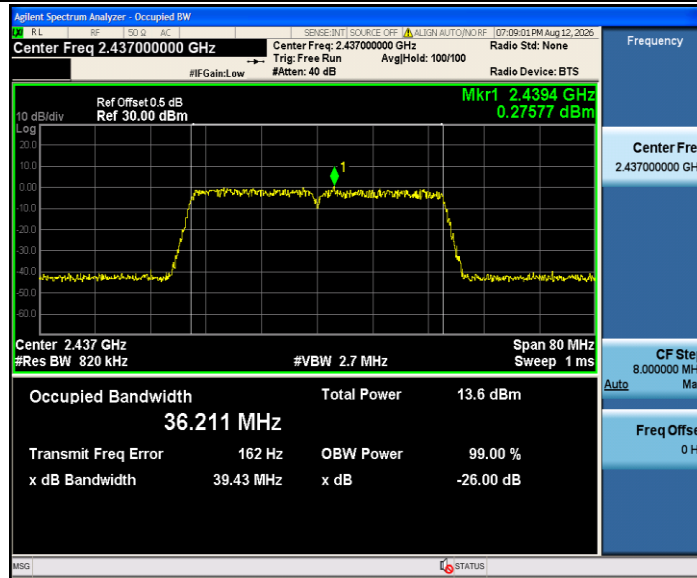
11N20SISO_Ant1_2462



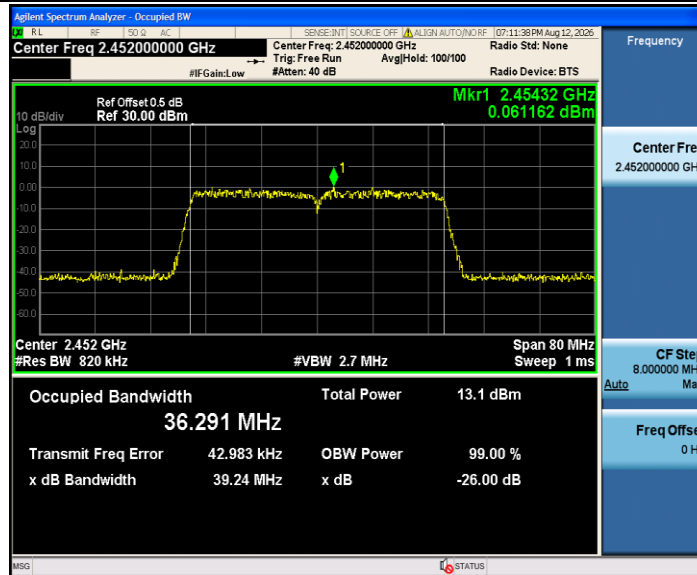
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.30	≤30.00	PASS
		2437	14.24	≤30.00	PASS
		2462	13.66	≤30.00	PASS
11G	Ant1	2412	13.41	≤30.00	PASS
		2437	13.29	≤30.00	PASS
		2462	12.76	≤30.00	PASS
11N20SISO	Ant1	2412	14.06	≤30.00	PASS
		2437	13.83	≤30.00	PASS
		2462	13.21	≤30.00	PASS
11N40SISO	Ant1	2422	13.76	≤30.00	PASS
		2437	13.47	≤30.00	PASS
		2452	13.06	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

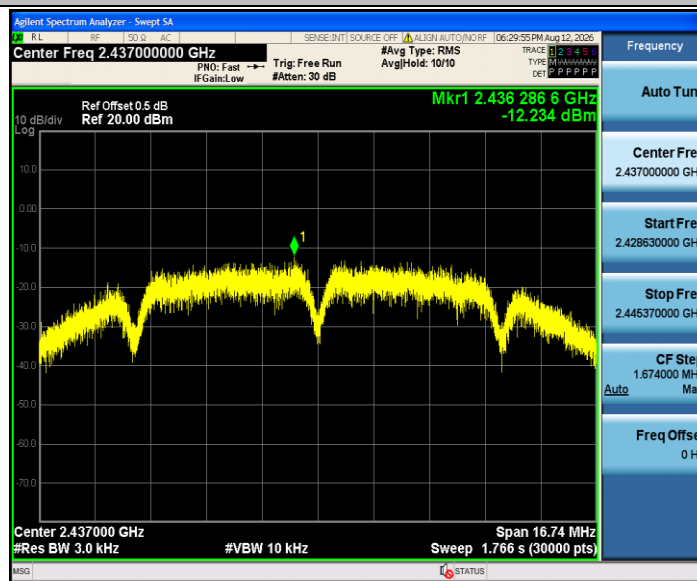
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.06	≤8.00	PASS
		2437	-12.23	≤8.00	PASS
		2462	-13.11	≤8.00	PASS
11G	Ant1	2412	-20.77	≤8.00	PASS
		2437	-20.69	≤8.00	PASS
		2462	-21.21	≤8.00	PASS
11N20SISO	Ant1	2412	-20.14	≤8.00	PASS
		2437	-20.86	≤8.00	PASS
		2462	-21.50	≤8.00	PASS
11N40SISO	Ant1	2422	-21.62	≤8.00	PASS
		2437	-22.31	≤8.00	PASS
		2452	-22.06	≤8.00	PASS

Test Graphs

11B_Ant1_2412



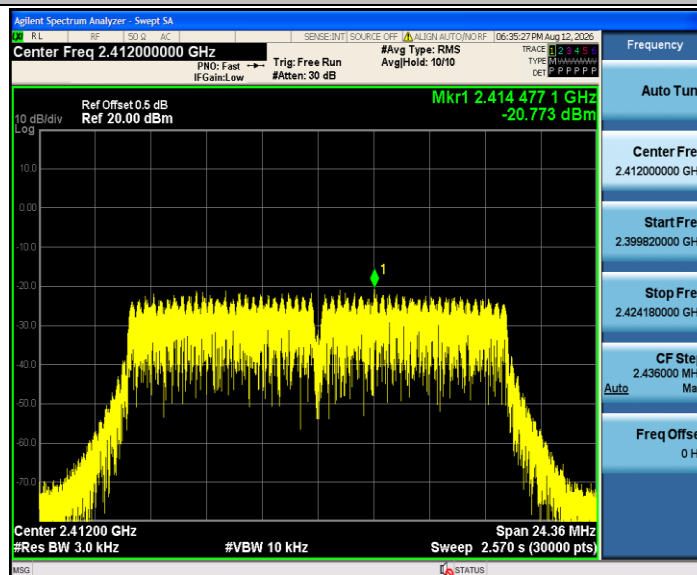
11B_Ant1_2437



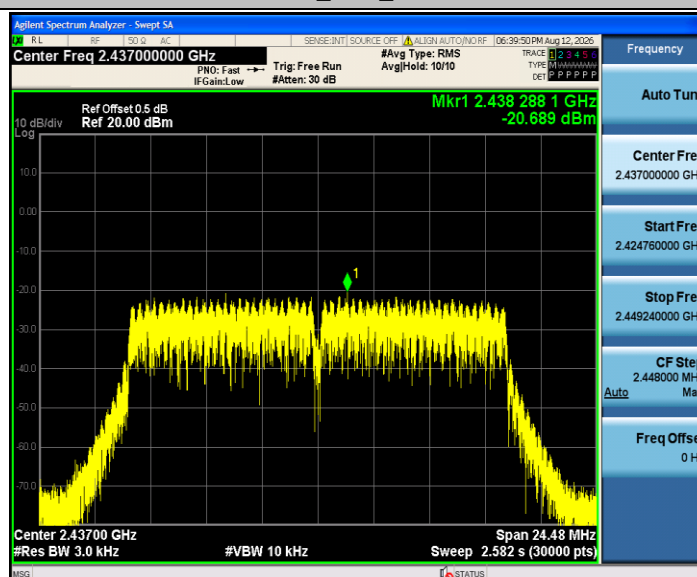
11B_Ant1_2462



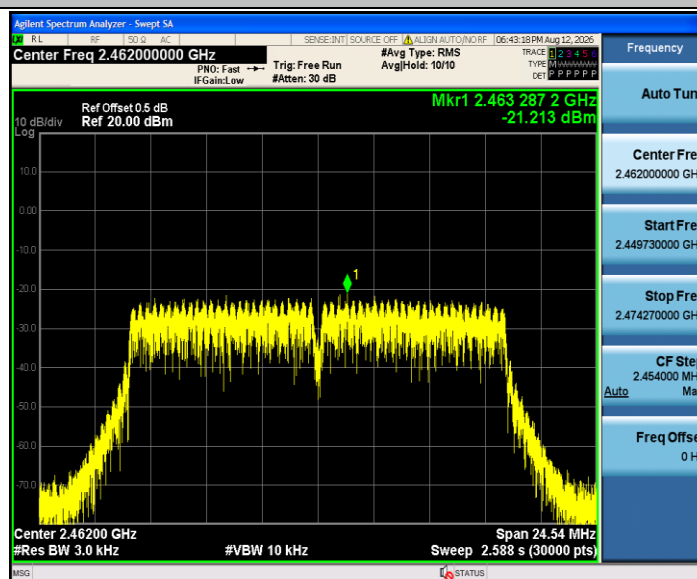
11G_Ant1_2412



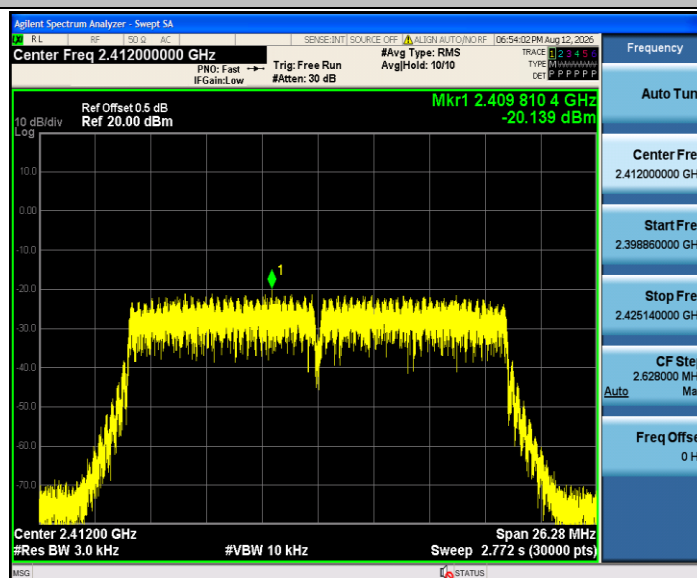
11G_Ant1_2437



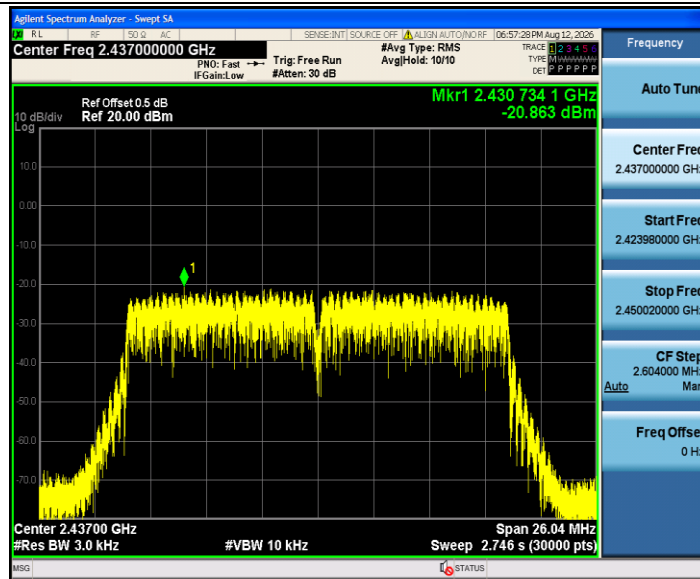
11G_Ant1_2462



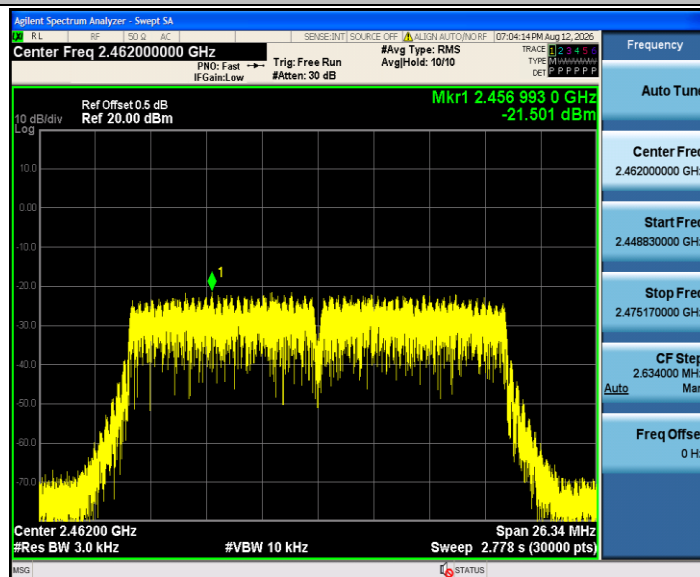
11N20SISO_Ant1_2412



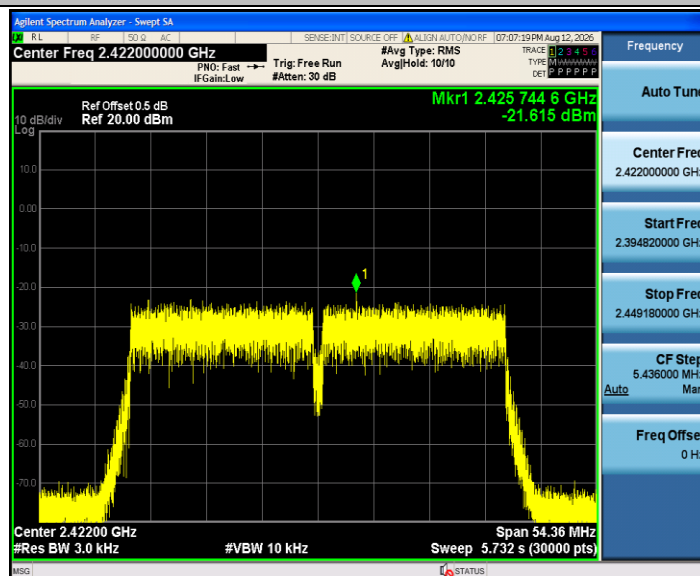
11N20SISO_Ant1_2437



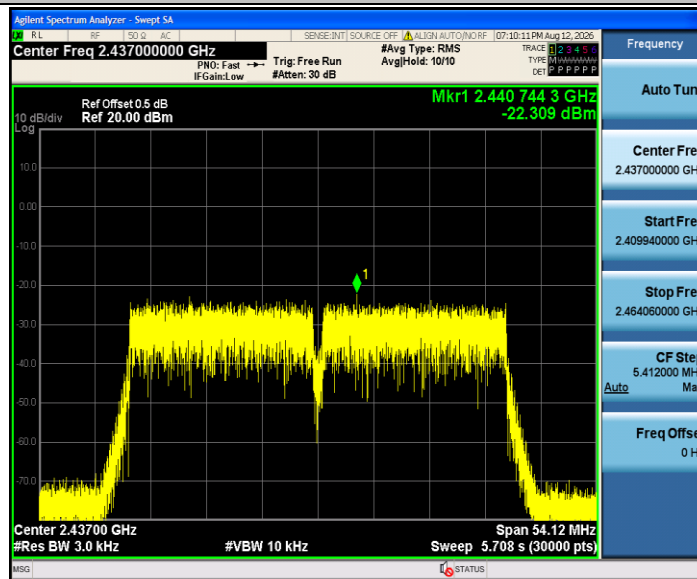
11N20SISO_Ant1_2462



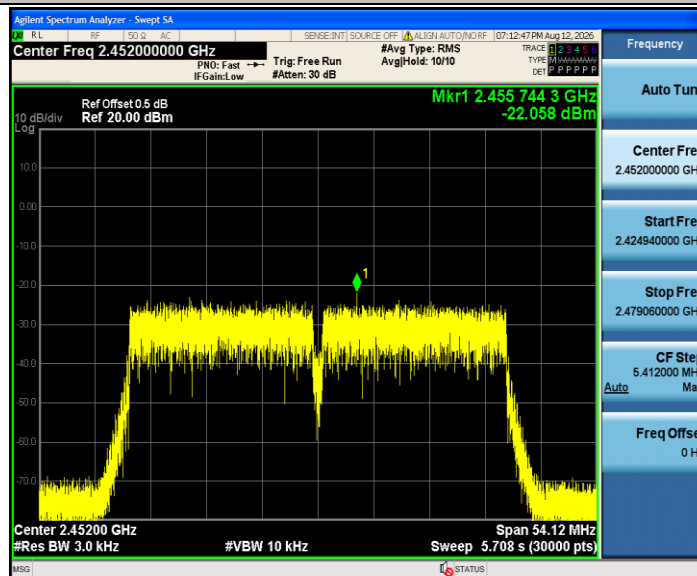
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



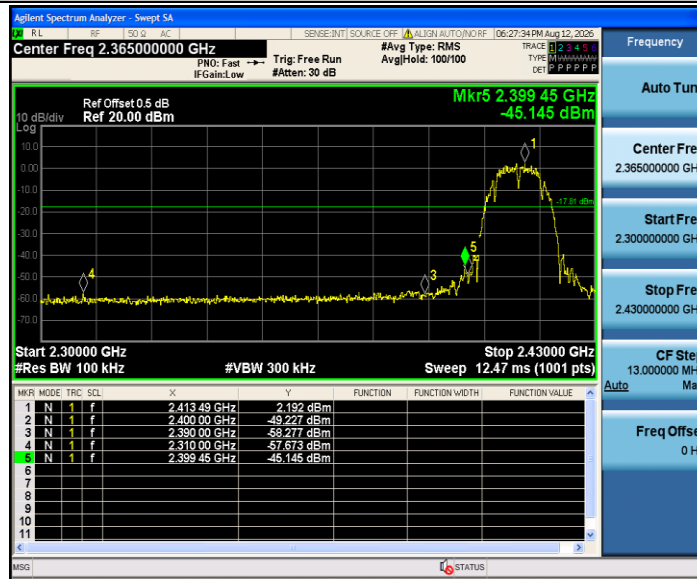
Appendix E: Band edge measurements

Test Result

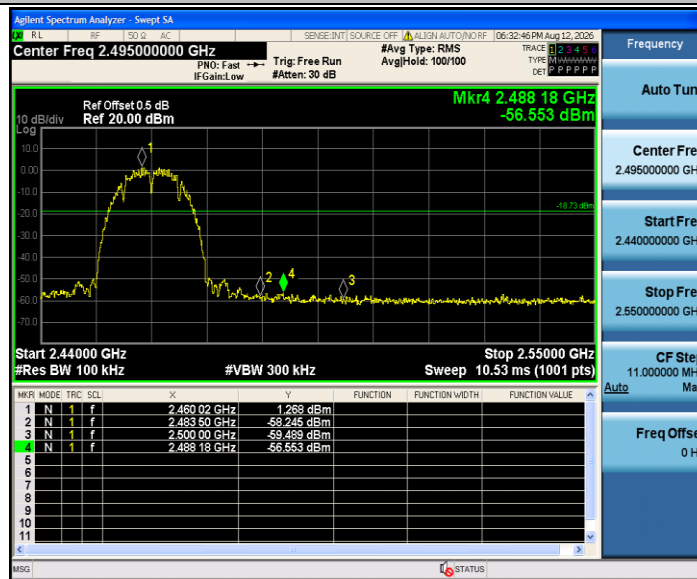
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.19	-45.15	≤-17.81	PASS
		High	2462	1.27	-56.55	≤-18.73	PASS
11G	Ant1	Low	2412	-4.86	-54.27	≤-24.86	PASS
		High	2462	-5.24	-57.03	≤-25.24	PASS
11N20SISO	Ant1	Low	2412	-4.18	-53.41	≤-24.18	PASS
		High	2462	-5.13	-57.4	≤-25.13	PASS
11N40SISO	Ant1	Low	2422	-7.38	-54.65	≤-27.38	PASS
		High	2452	-7.27	-52.48	≤-27.27	PASS

Test Graphs

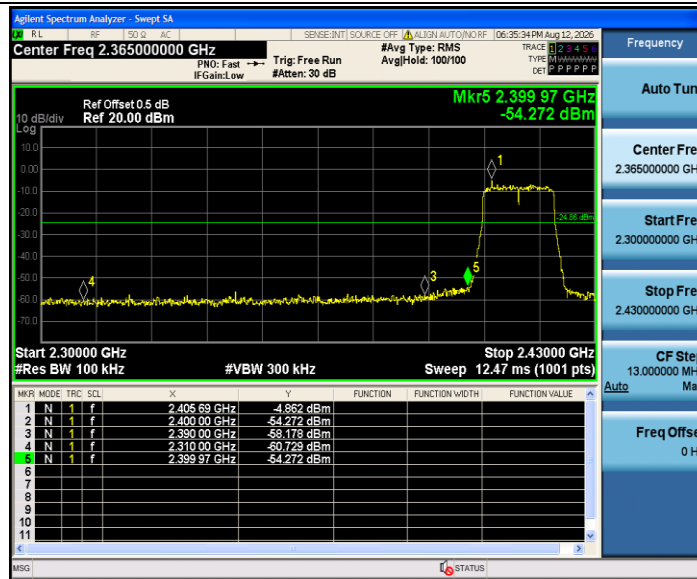
11B_Ant1_Low_2412



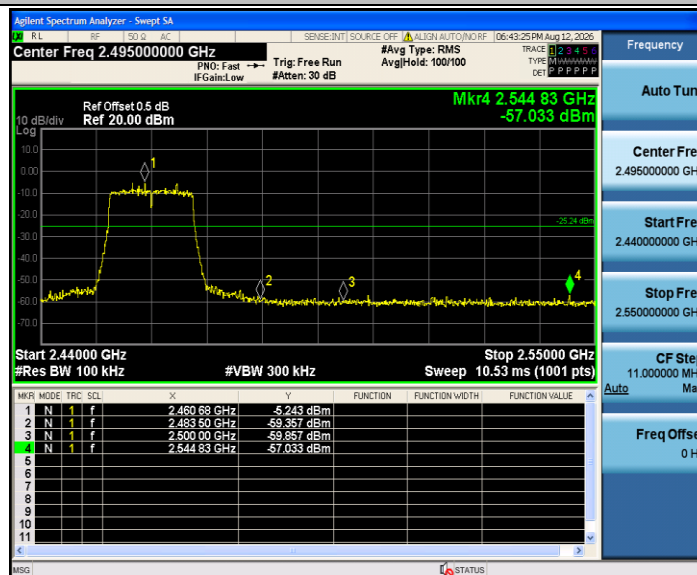
11B_Ant1_High_2462



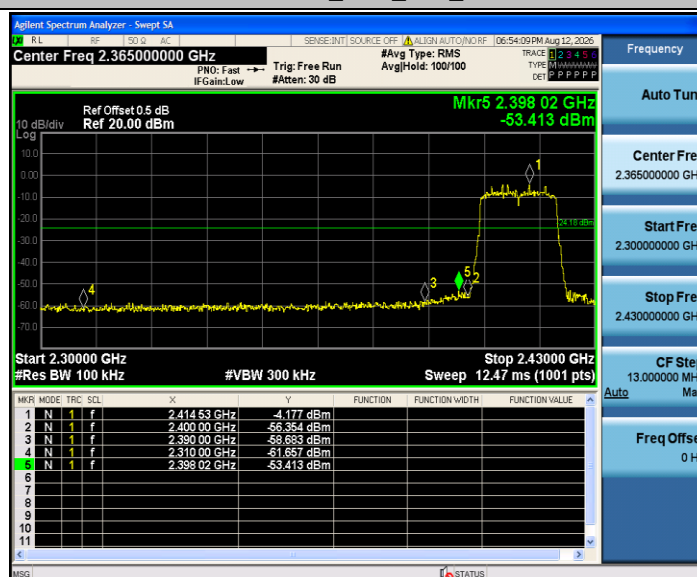
11G_Ant1_Low_2412



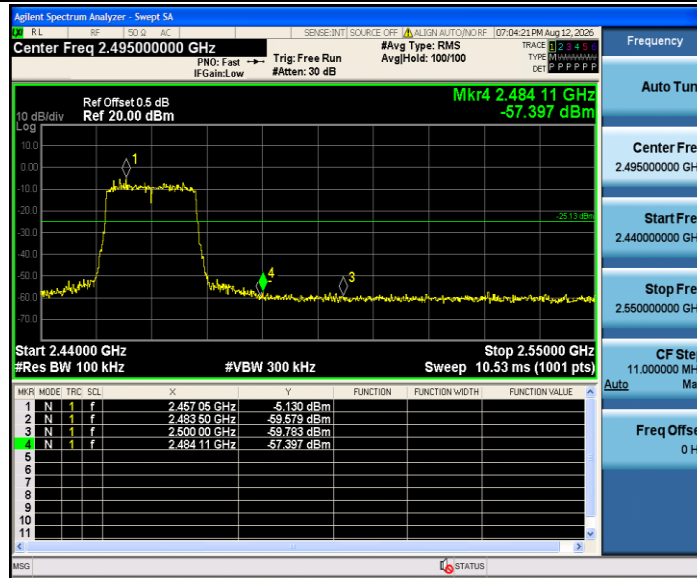
11G_Ant1_High_2462



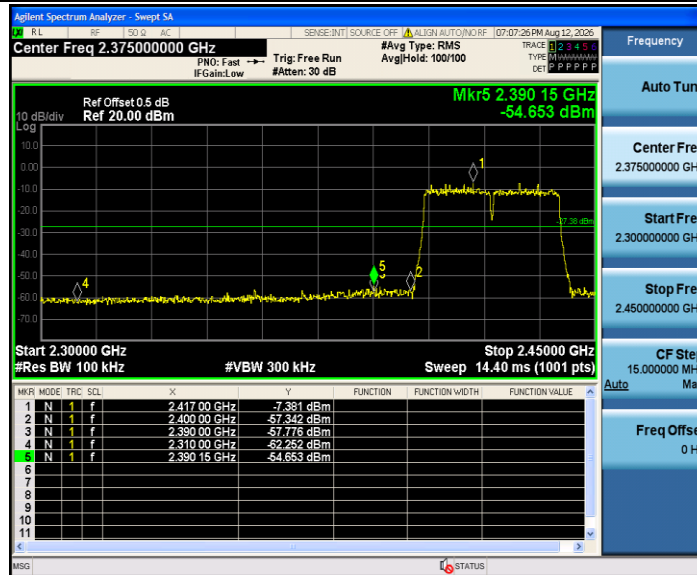
11N20SISO_Ant1_Low_2412



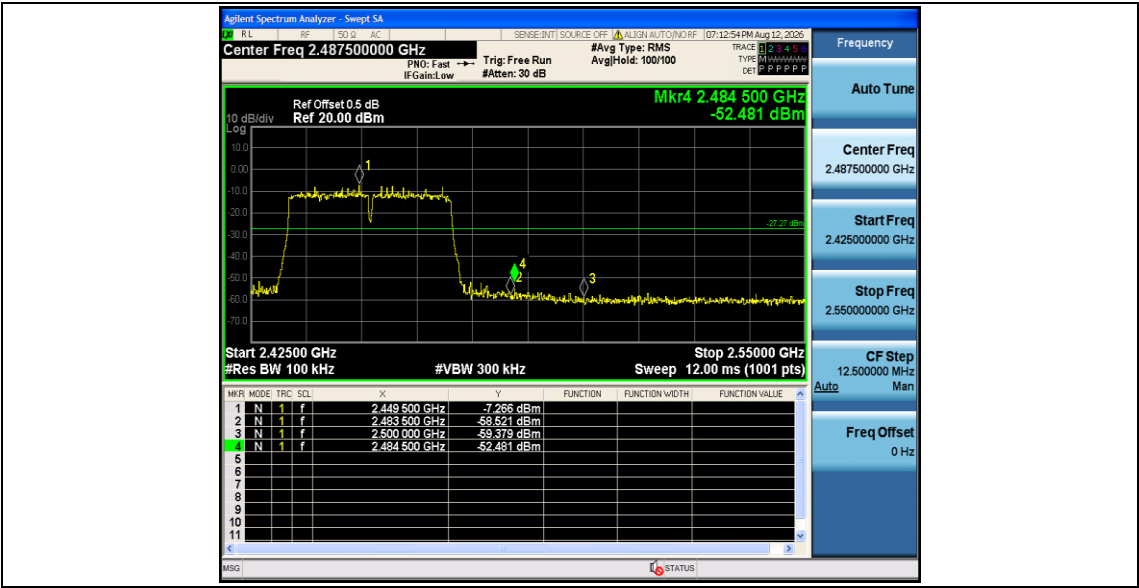
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

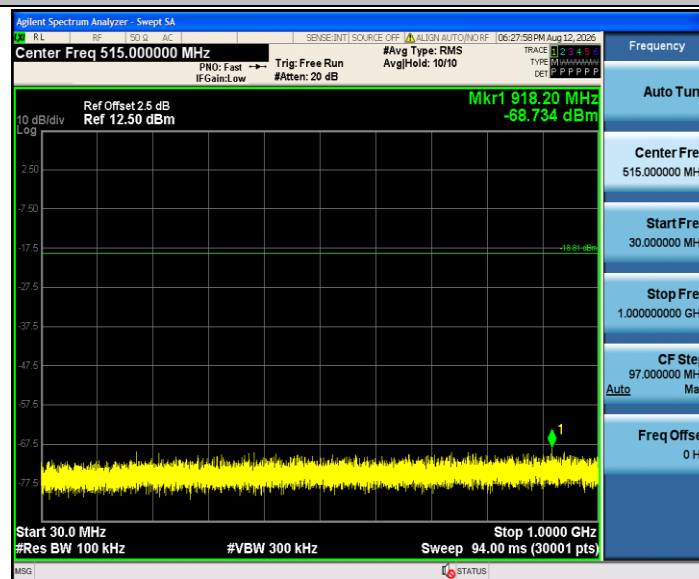
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.19	1.19	---	PASS
			30~1000	1.19	-68.73	≤-18.81	PASS
			1000~26500	1.19	-46.04	≤-18.81	PASS
		2437	Reference	1.42	1.42	---	PASS
			30~1000	1.42	-68.69	≤-18.58	PASS
			1000~26500	1.42	-46.35	≤-18.58	PASS
		2462	Reference	0.97	0.97	---	PASS
			30~1000	0.97	-68.49	≤-19.03	PASS
			1000~26500	0.97	-46.17	≤-19.03	PASS
11G	Ant1	2412	Reference	-4.95	-4.95	---	PASS
			30~1000	-4.95	-69.03	≤-24.95	PASS
			1000~26500	-4.95	-46.93	≤-24.95	PASS
		2437	Reference	-7.62	-7.62	---	PASS
			30~1000	-7.62	-68.84	≤-27.62	PASS
			1000~26500	-7.62	-46.24	≤-27.62	PASS
		2462	Reference	-7.92	-7.92	---	PASS
			30~1000	-7.92	-69.27	≤-27.92	PASS
			1000~26500	-7.92	-46.97	≤-27.92	PASS
11N20SISO	Ant1	2412	Reference	-6.83	-6.83	---	PASS
			30~1000	-6.83	-69.13	≤-26.83	PASS
			1000~26500	-6.83	-46.76	≤-26.83	PASS
		2437	Reference	-8.07	-8.07	---	PASS
			30~1000	-8.07	-68.88	≤-28.07	PASS
			1000~26500	-8.07	-46.09	≤-28.07	PASS
		2462	Reference	-7.90	-7.90	---	PASS
			30~1000	-7.90	-68.16	≤-27.9	PASS
			1000~26500	-7.90	-46.66	≤-27.9	PASS
11N40SISO	Ant1	2422	Reference	1.75	1.75	---	PASS
			30~1000	1.75	-67.77	≤-18.25	PASS
			1000~26500	1.75	-44.37	≤-18.25	PASS
		2437	Reference	2.05	2.05	---	PASS
			30~1000	2.05	-68.49	≤-17.95	PASS
			1000~26500	2.05	-42.83	≤-17.95	PASS
		2452	Reference	1.22	1.22	---	PASS
			30~1000	1.22	-44.05	≤-18.78	PASS
			1000~26500	1.22	-43.38	≤-18.78	PASS

Test Graphs

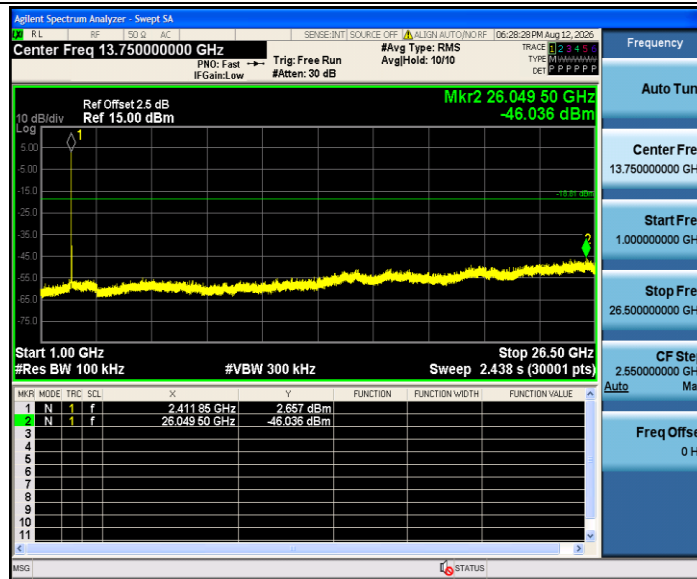
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



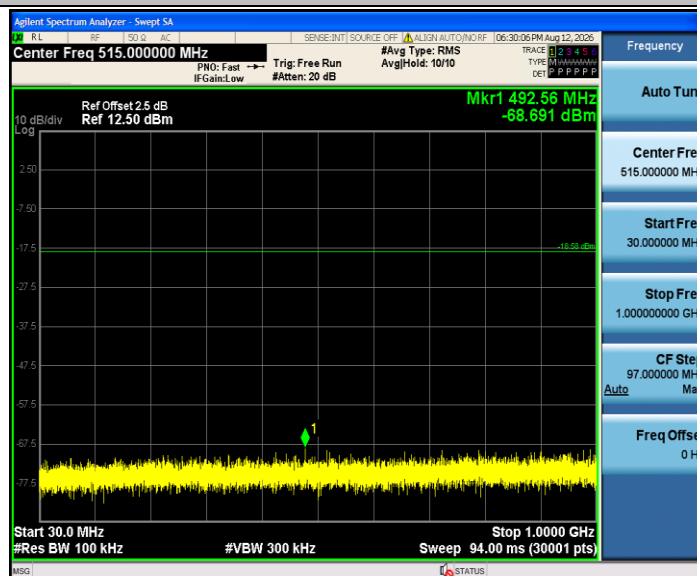
11B_Ant1_2412_1000~26500



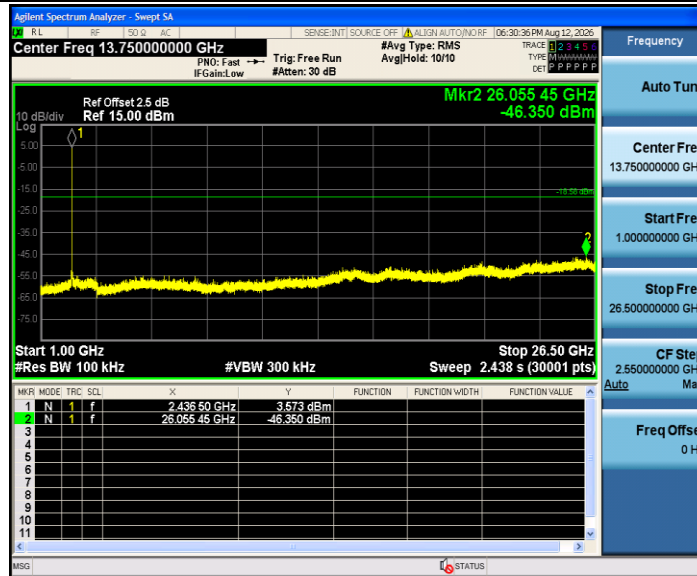
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



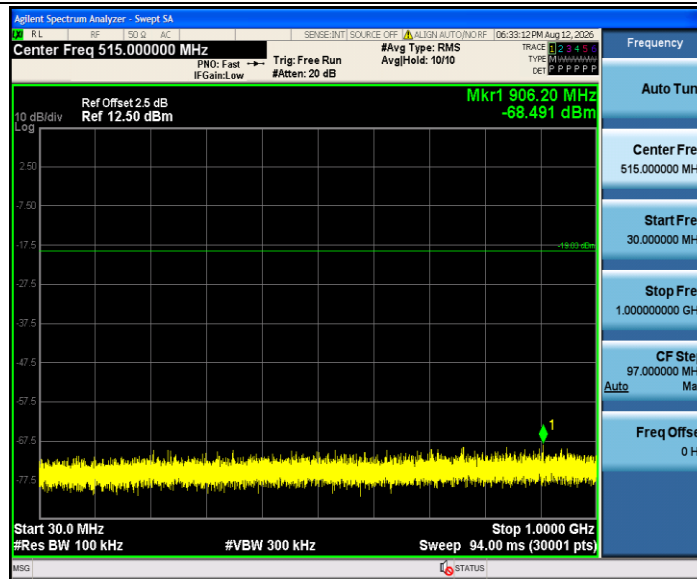
11B_Ant1_2437_1000~26500



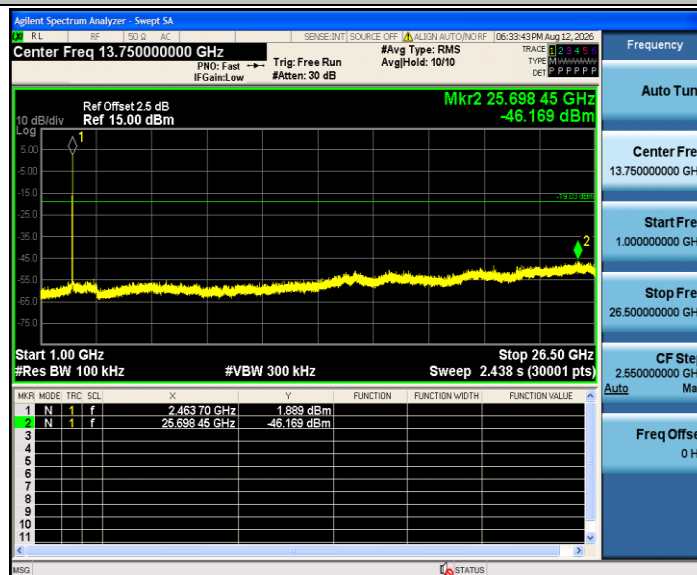
11B_Ant1_2462_0~Reference



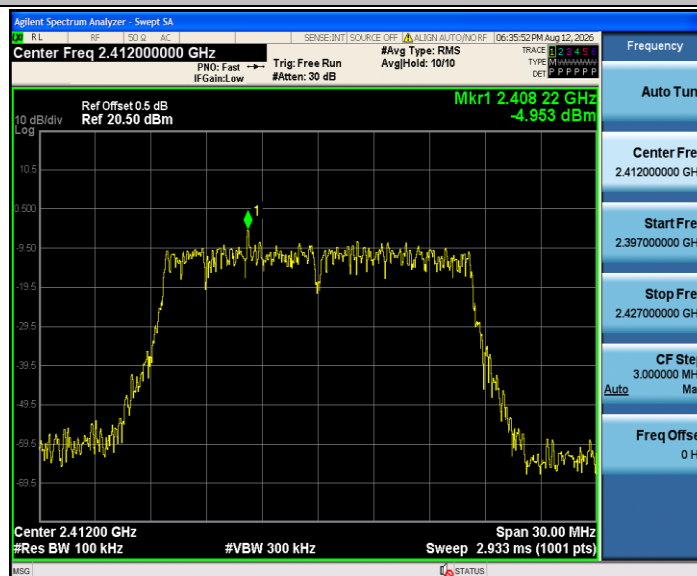
11B_Ant1_2462_30~1000



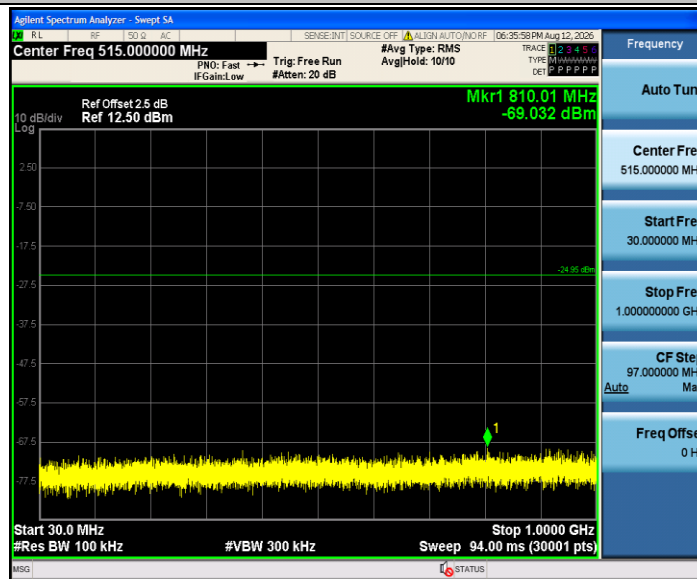
11B_Ant1_2462_1000~26500



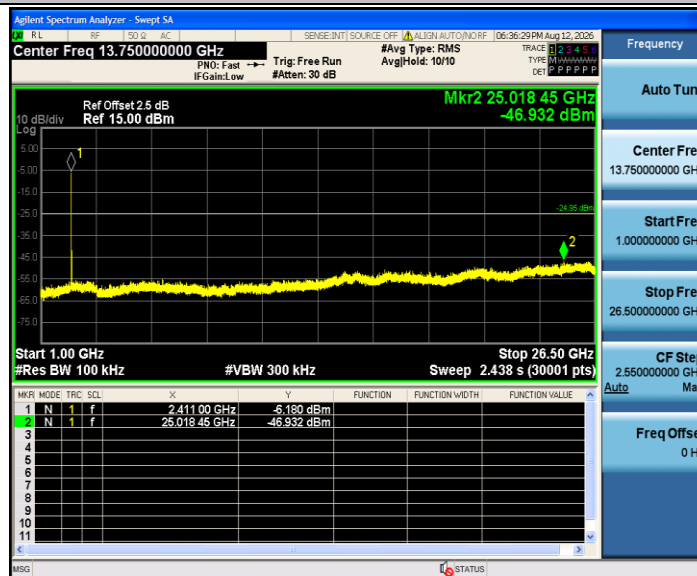
11G_Ant1_2412_0~Reference



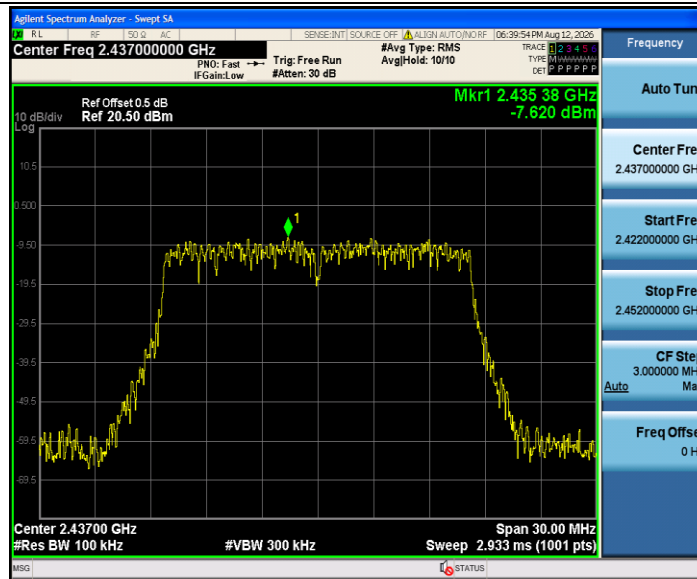
11G_Ant1_2412_30~1000



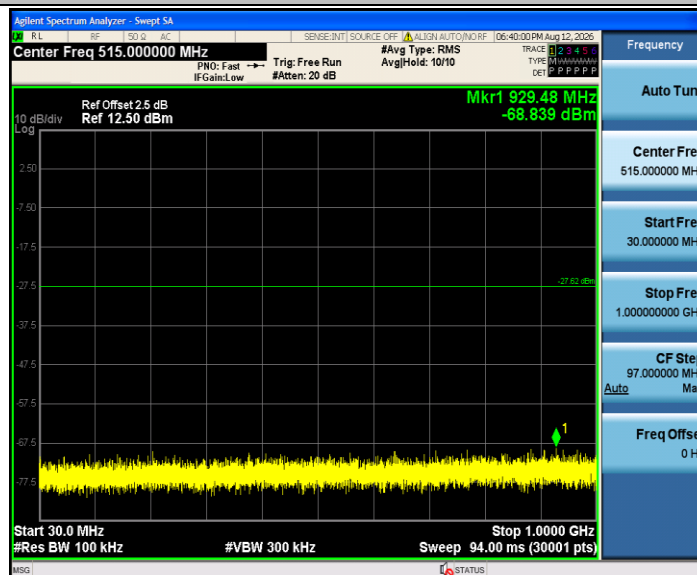
11G_Ant1_2412_1000~26500



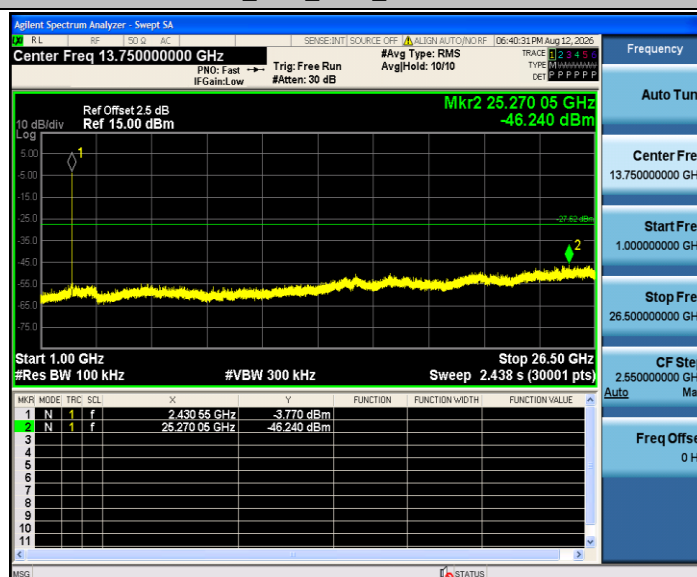
11G_Ant1_2437_0~Reference



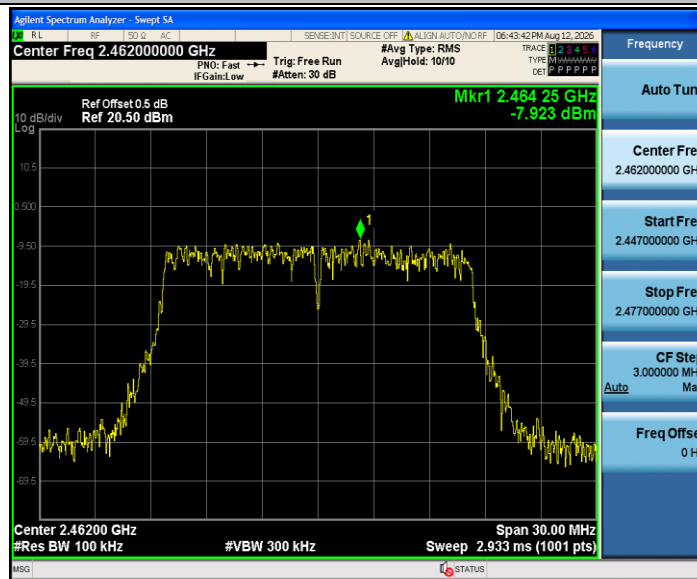
11G_Ant1_2437_30~1000



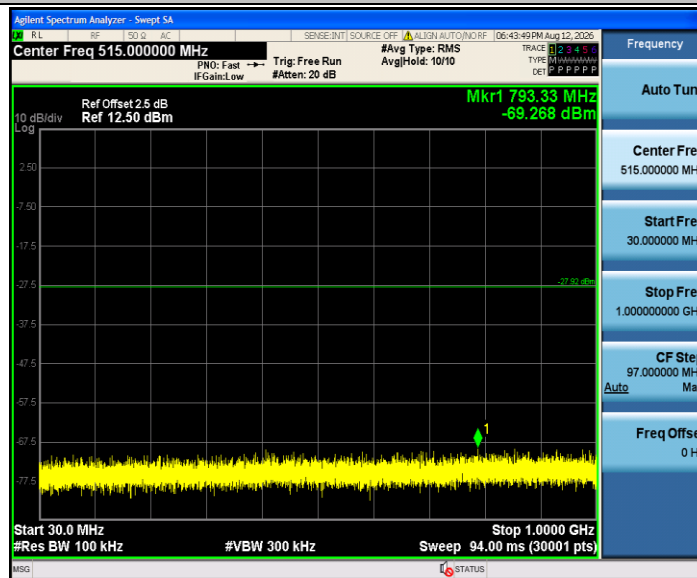
11G_Ant1_2437_1000~26500



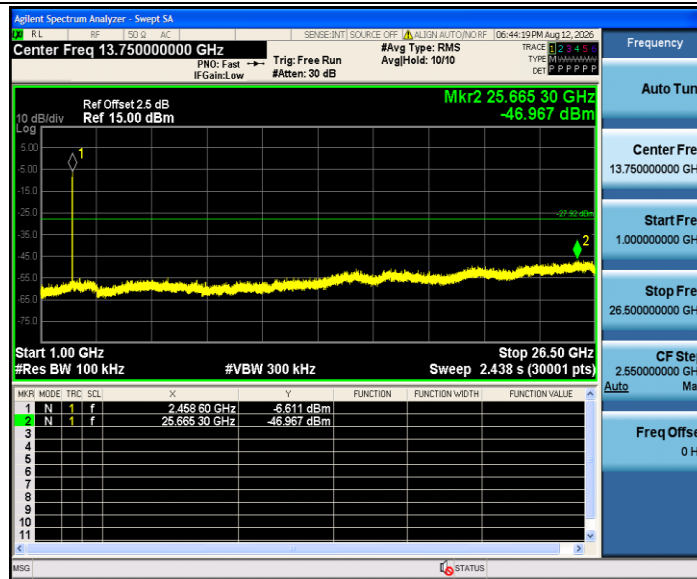
11G_Ant1_2462_0~Reference



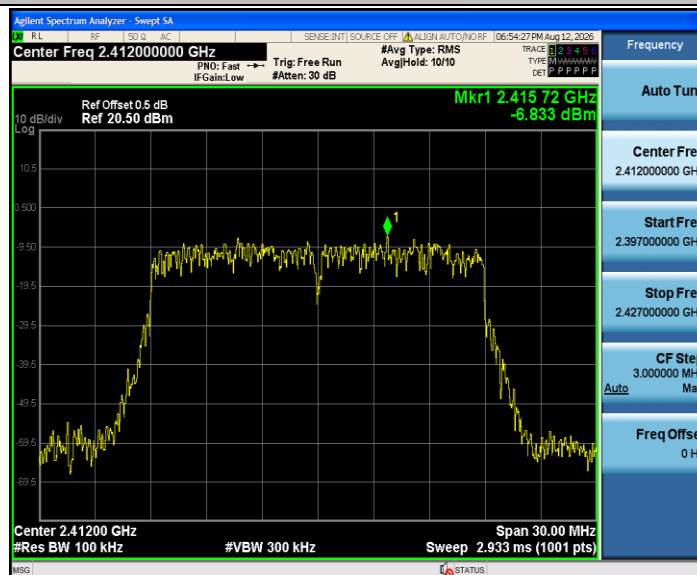
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

