

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A8NQ-Z300D

Company : Shenzhen meiweisi Technology Co., Ltd

EUT : Wireless Repeater, WiFi Expander

Model Number : Z300D

Report No. : CTA25110600501

Reviewed By : Eric Wang

Appendix RF Test Data for 2.4GWIFI ANT1

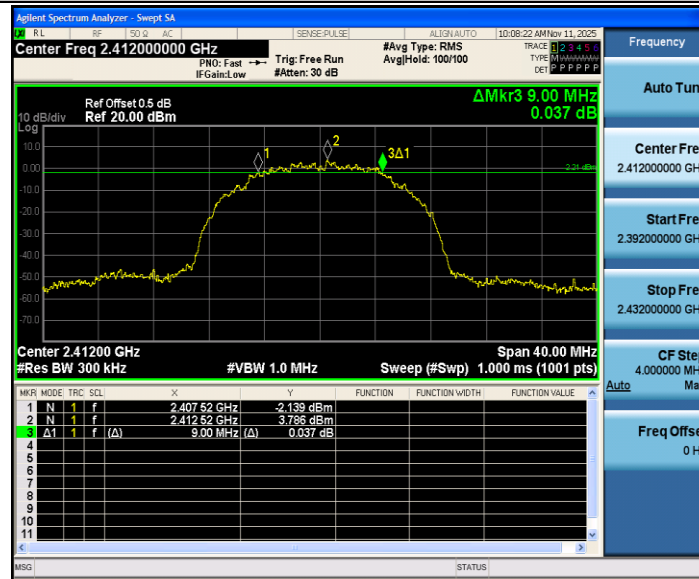
Appendix A: DTS Bandwidth

Test Result

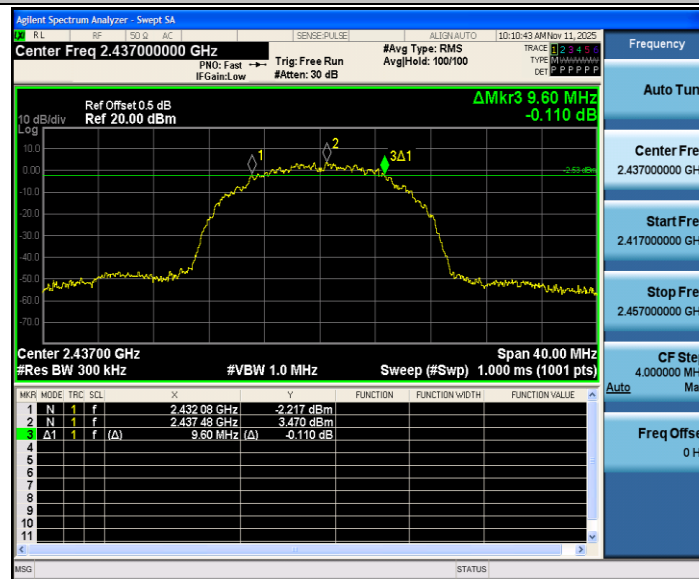
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.000	2407.520	2416.520	0.5	PASS
		2437	9.600	2432.080	2441.680	0.5	PASS
		2462	8.720	2457.600	2466.320	0.5	PASS
11G	Ant1	2412	16.320	2403.880	2420.200	0.5	PASS
		2437	16.280	2428.880	2445.160	0.5	PASS
		2462	16.320	2453.880	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.320	2420.640	0.5	PASS
		2437	17.240	2428.400	2445.640	0.5	PASS
		2462	17.160	2453.440	2470.600	0.5	PASS
11N40SISO	Ant1	2422	33.840	2405.200	2439.040	0.5	PASS
		2437	33.840	2420.280	2454.120	0.5	PASS
		2452	34.000	2435.120	2469.120	0.5	PASS

Test Graphs

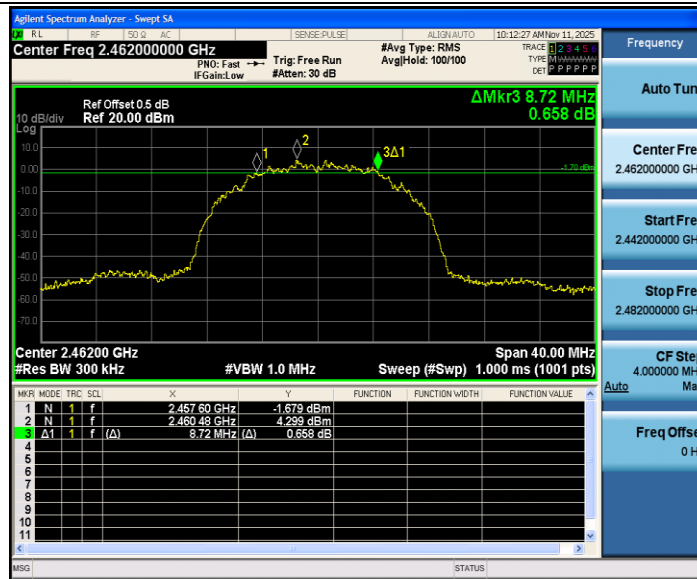
11B_Ant1_2412



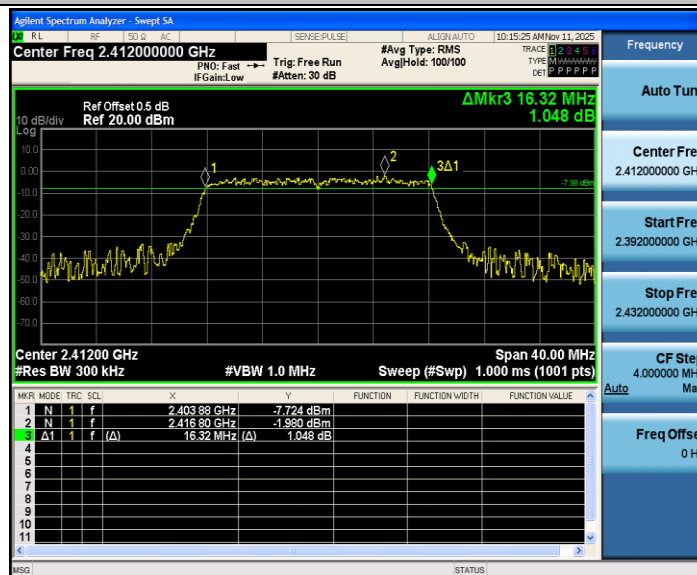
11B_Ant1_2437



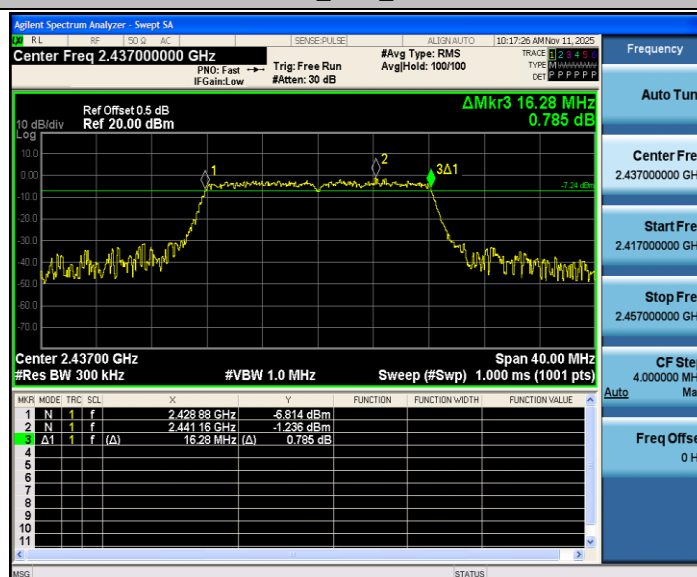
11B_Ant1_2462



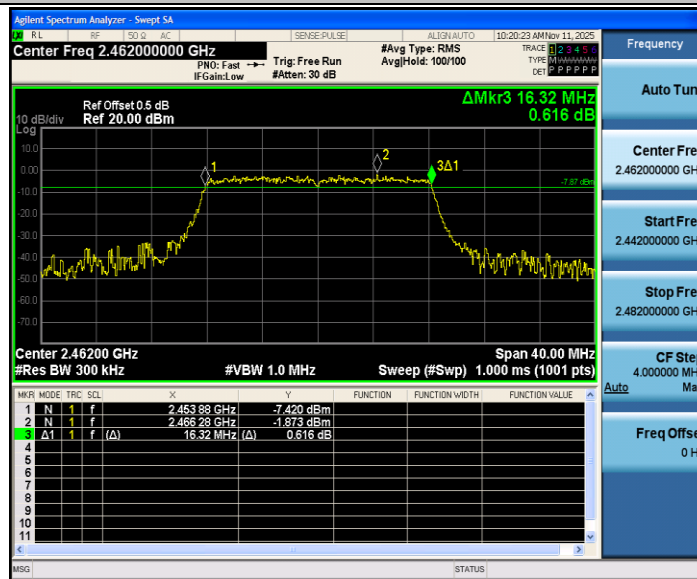
11G_Ant1_2412



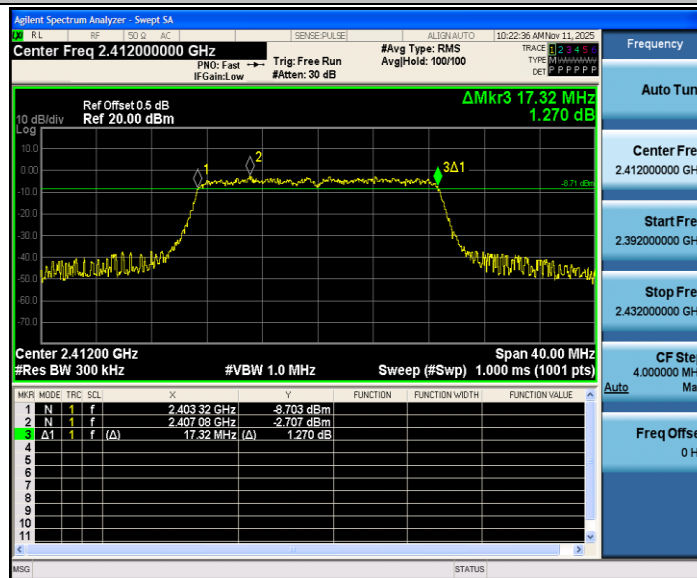
11G_Ant1_2437



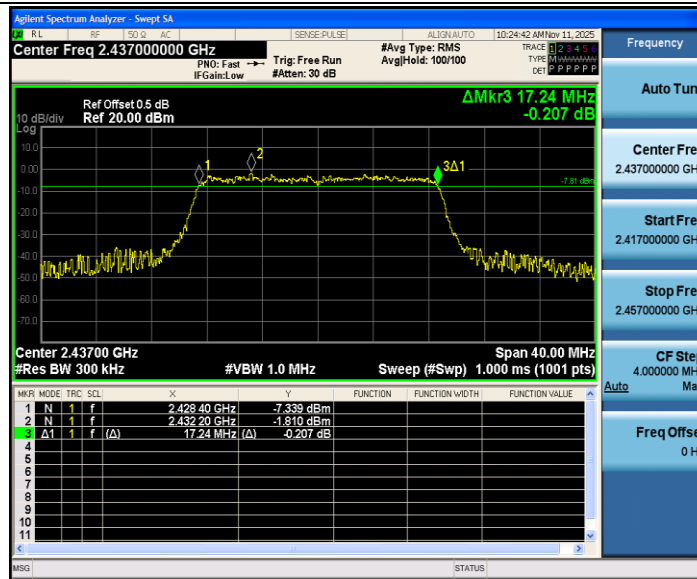
11G_Ant1_2462



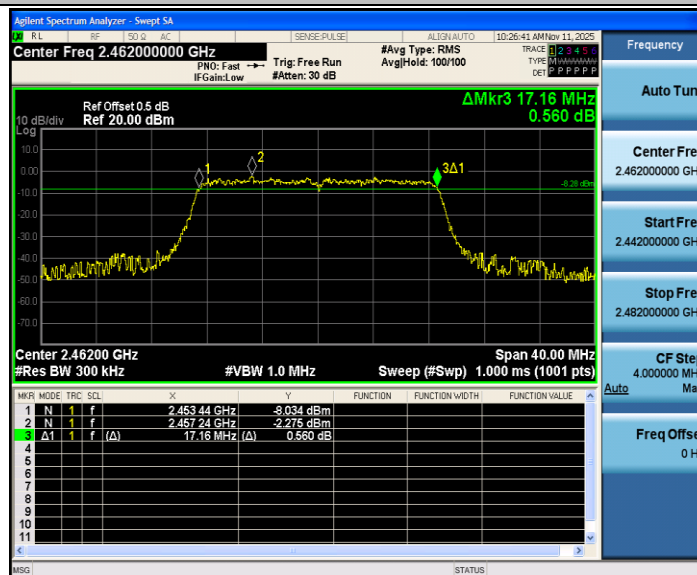
11N20SISO_Ant1_2412



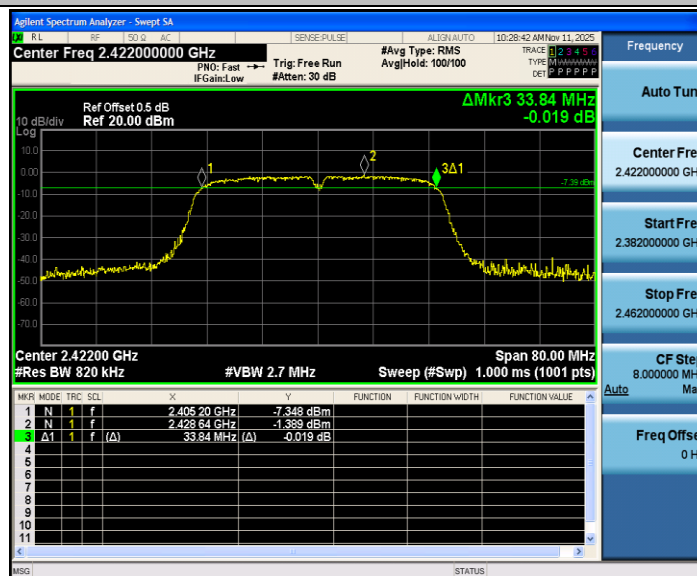
11N20SISO_Ant1_2437



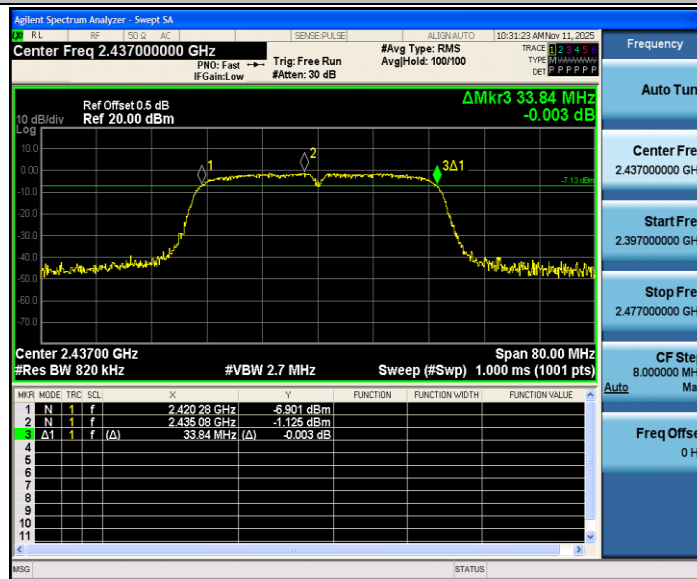
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



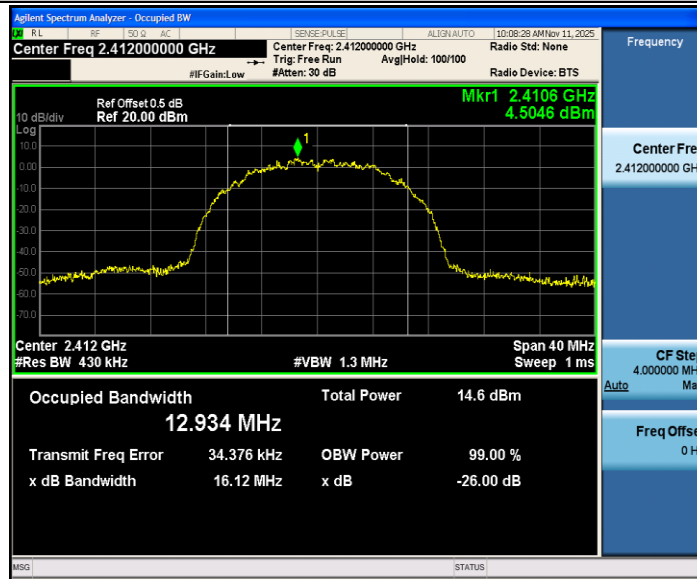
Appendix B: Occupied Channel Bandwidth

Test Result

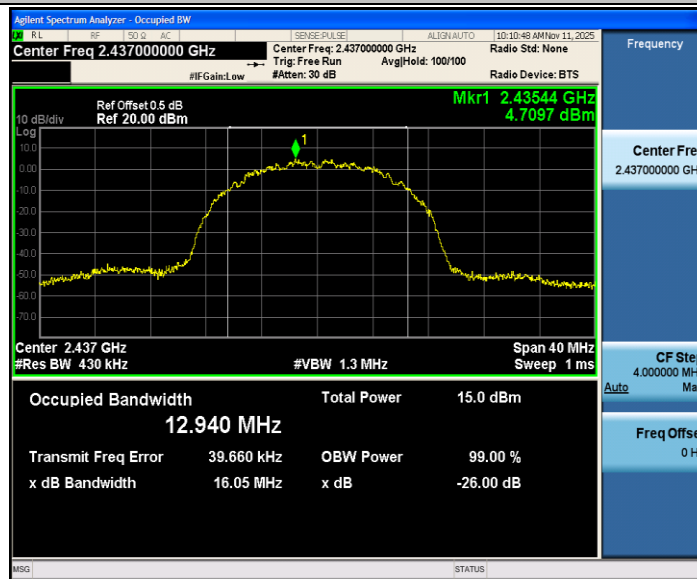
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.934	2405.5674	2418.5014	---	---
		2437	12.940	2430.5697	2443.5097	---	---
		2462	12.969	2455.5186	2468.4876	---	---
11G	Ant1	2412	16.590	2403.7484	2420.3384	---	---
		2437	16.565	2428.7598	2445.3248	---	---
		2462	16.601	2453.7303	2470.3313	---	---
11N20SISO	Ant1	2412	17.426	2403.3257	2420.7517	---	---
		2437	17.465	2428.3042	2445.7692	---	---
		2462	17.451	2453.3077	2470.7587	---	---
11N40SISO	Ant1	2422	34.812	2404.7467	2439.5587	---	---
		2437	34.766	2419.6910	2454.4570	---	---
		2452	34.852	2434.6662	2469.5182	---	---

Test Graphs

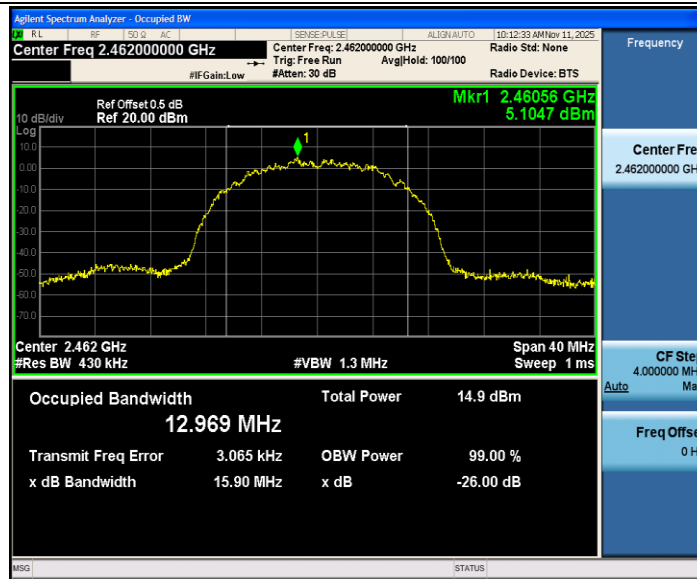
11B_Ant1_2412



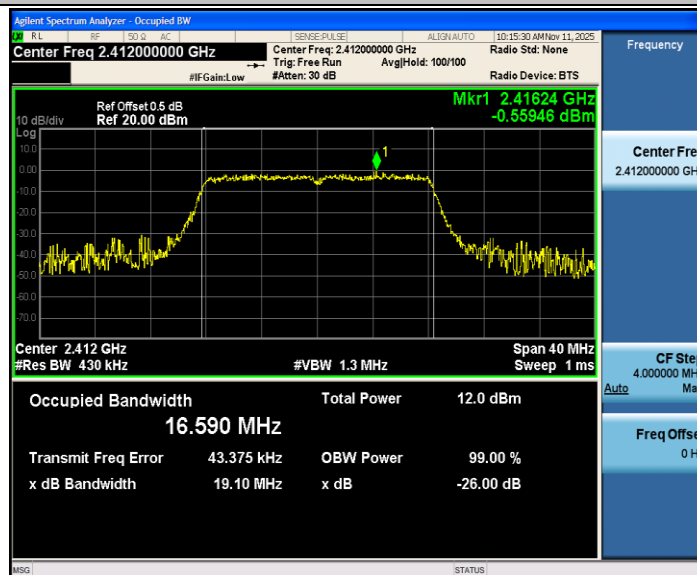
11B_Ant1_2437



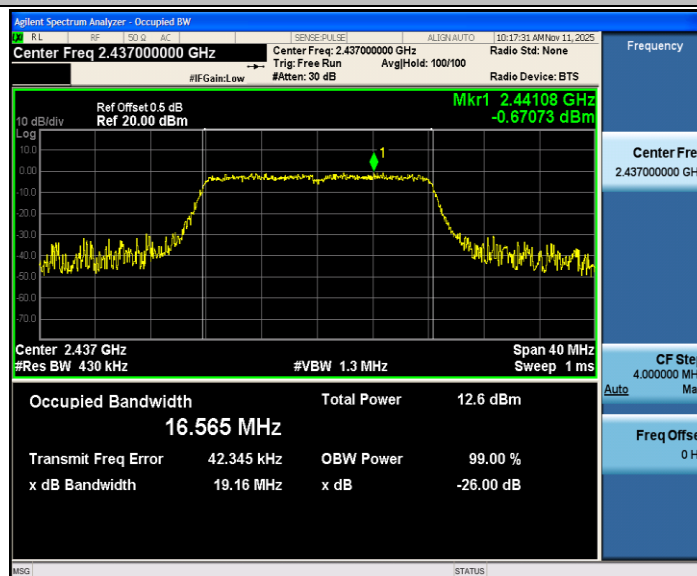
11B_Ant1_2462



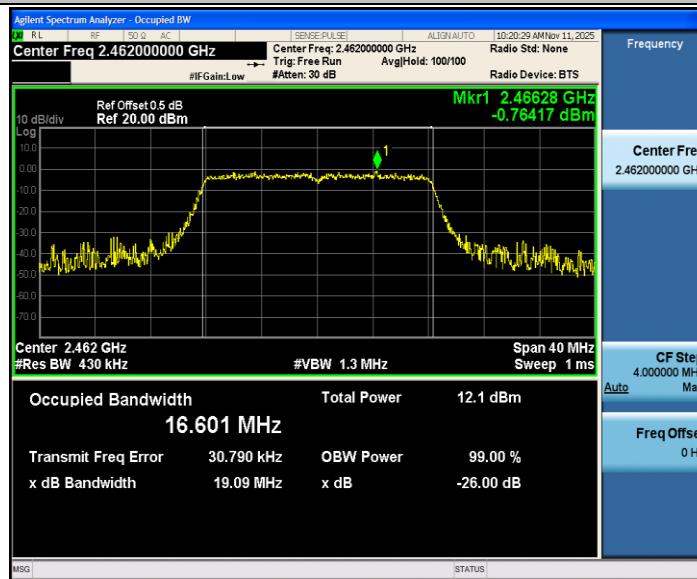
11G_Ant1_2412



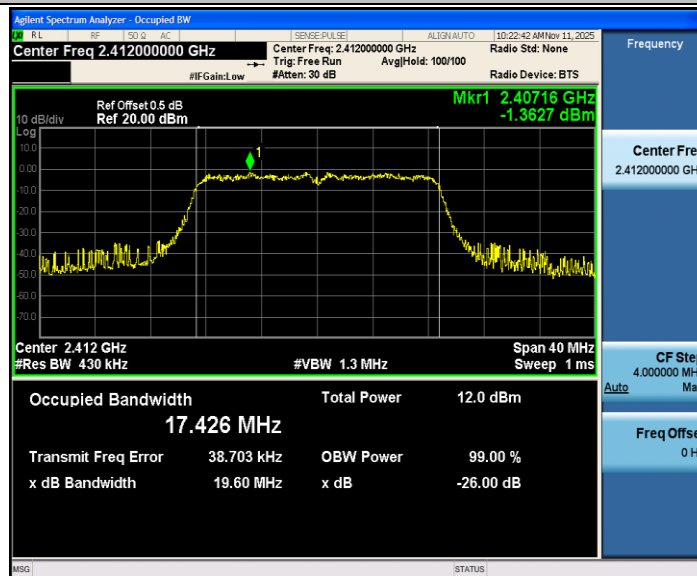
11G_Ant1_2437



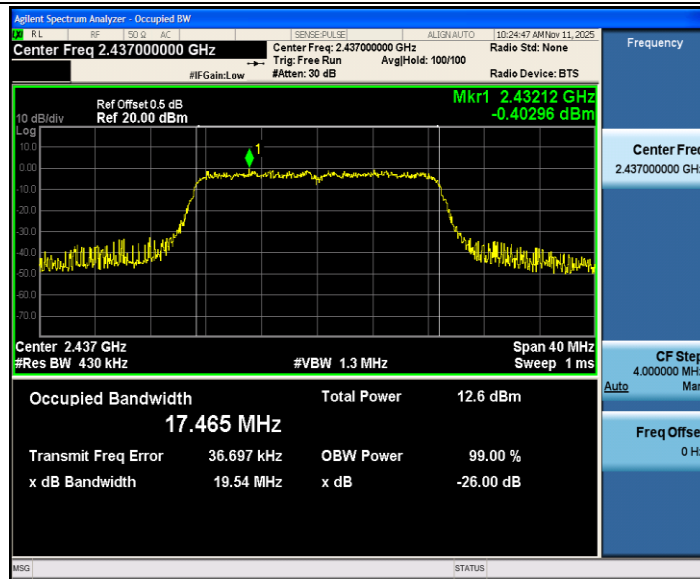
11G_Ant1_2462



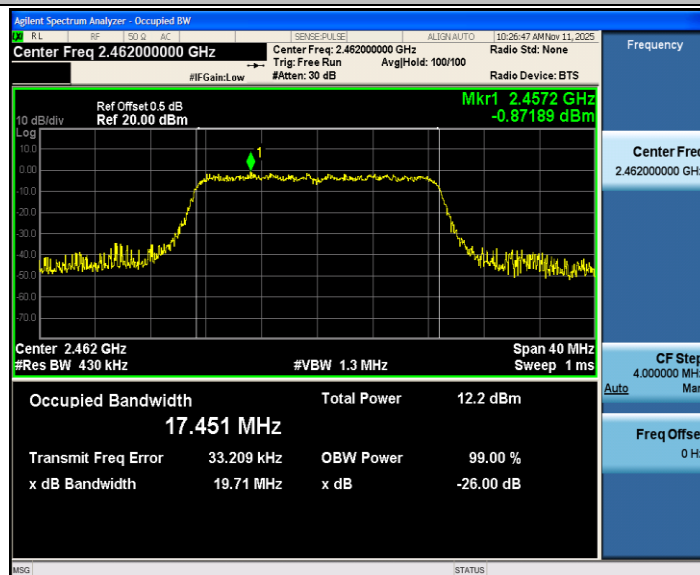
11N20SISO_Ant1_2412



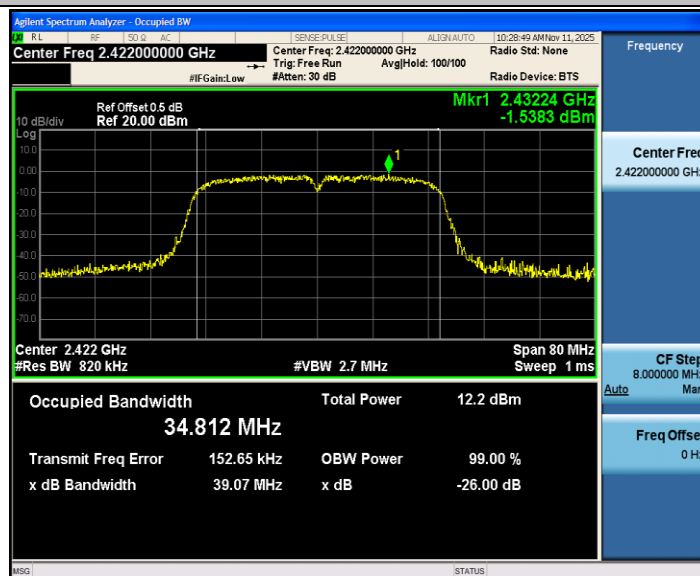
11N20SISO_Ant1_2437



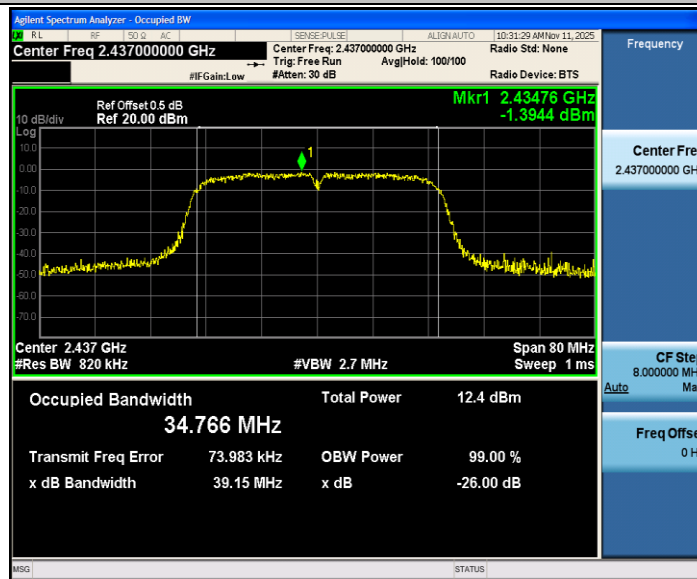
11N20SISO_Ant1_2462



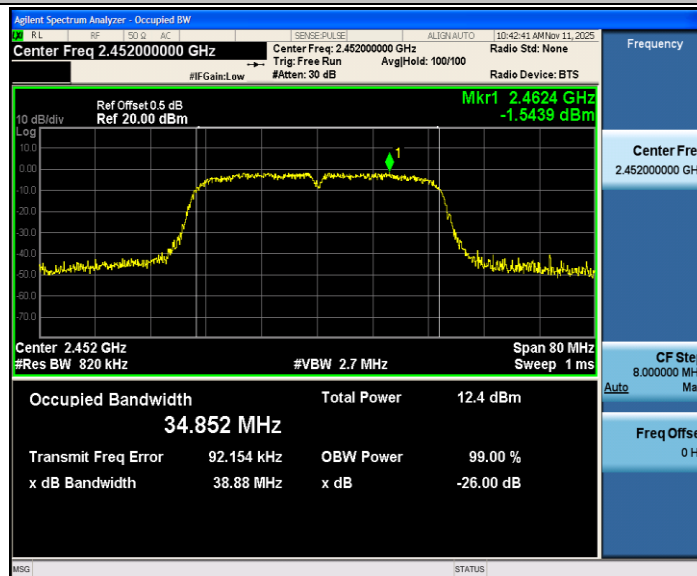
11N40SISO_Ant1_2422



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	14.07	≤30.00	PASS
		2437	14.79	≤30.00	PASS
		2462	14.36	≤30.00	PASS
11G	Ant1	2412	12.83	≤30.00	PASS
		2437	13.48	≤30.00	PASS
		2462	13.07	≤30.00	PASS
11N20SISO	Ant1	2412	13.25	≤30.00	PASS
		2437	13.79	≤30.00	PASS
		2462	13.31	≤30.00	PASS
11N40SISO	Ant1	2422	12.44	≤30.00	PASS
		2437	12.75	≤30.00	PASS
		2452	12.67	≤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	-14.74	≤8.00	PASS
		2437	-14.20	≤8.00	PASS
		2462	-14.39	≤8.00	PASS
11G	Ant1	2412	-21.51	≤8.00	PASS
		2437	-20.84	≤8.00	PASS
		2462	-21.29	≤8.00	PASS
11N20SISO	Ant1	2412	-21.35	≤8.00	PASS
		2437	-20.87	≤8.00	PASS
		2462	-20.90	≤8.00	PASS
11N40SISO	Ant1	2422	-22.10	≤8.00	PASS
		2437	-22.03	≤8.00	PASS
		2452	-22.74	≤8.00	PASS

Test Graphs

11B_Ant1_2412



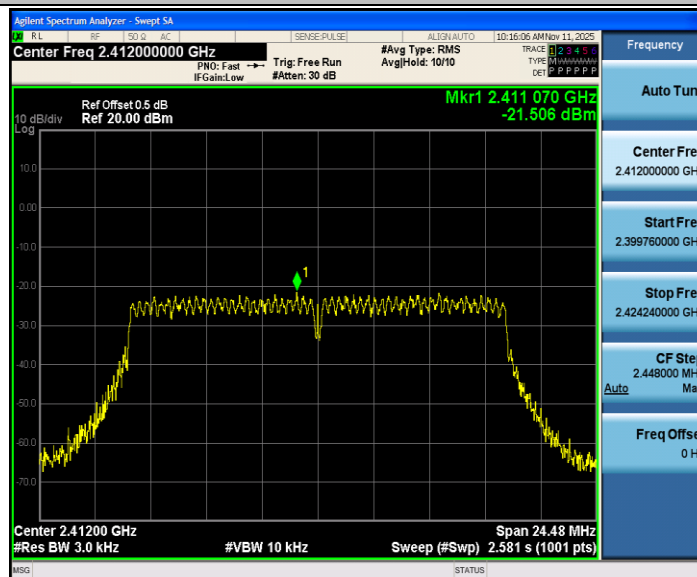
11B_Ant1_2437



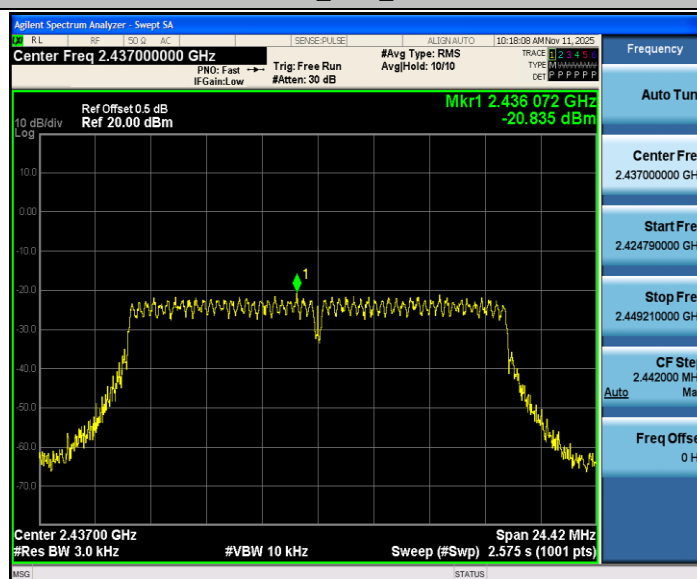
11B_Ant1_2462



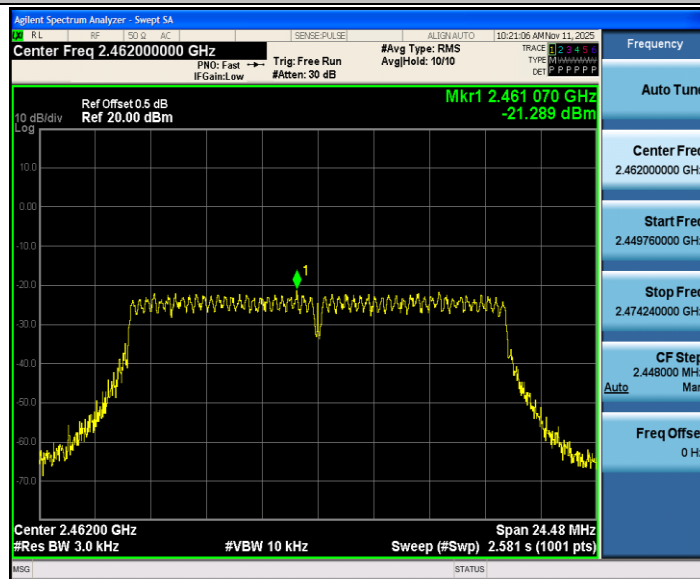
11G_Ant1_2412



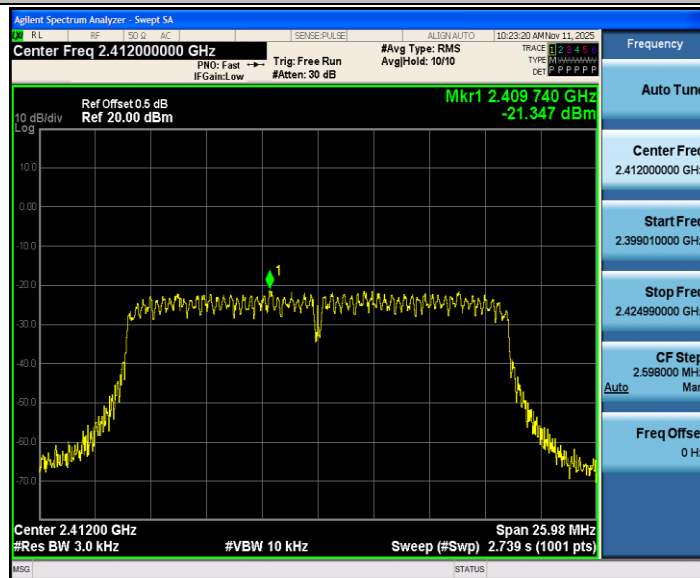
11G_Ant1_2437



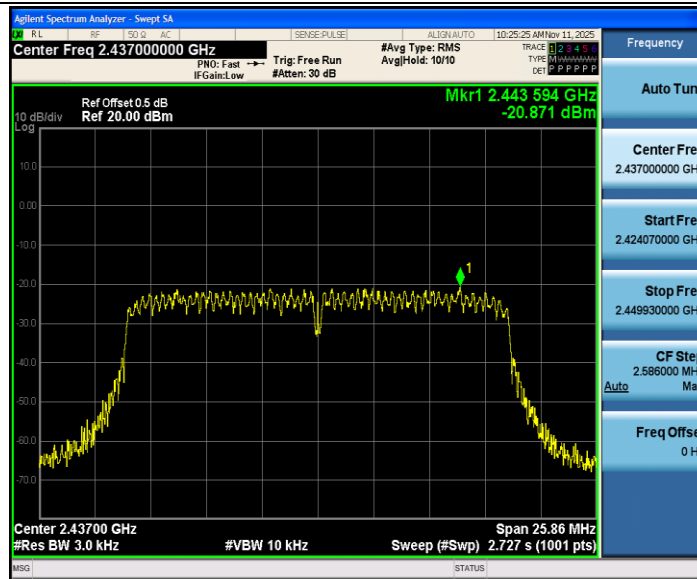
11G_Ant1_2462



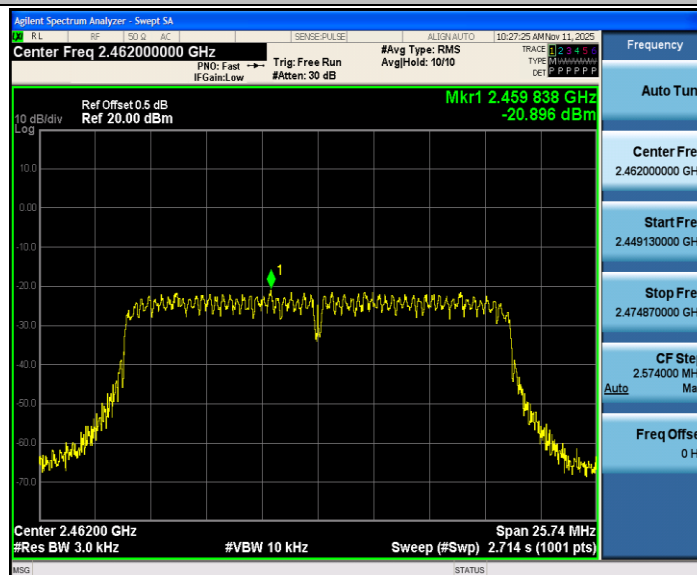
11N20SISO_Ant1_2412



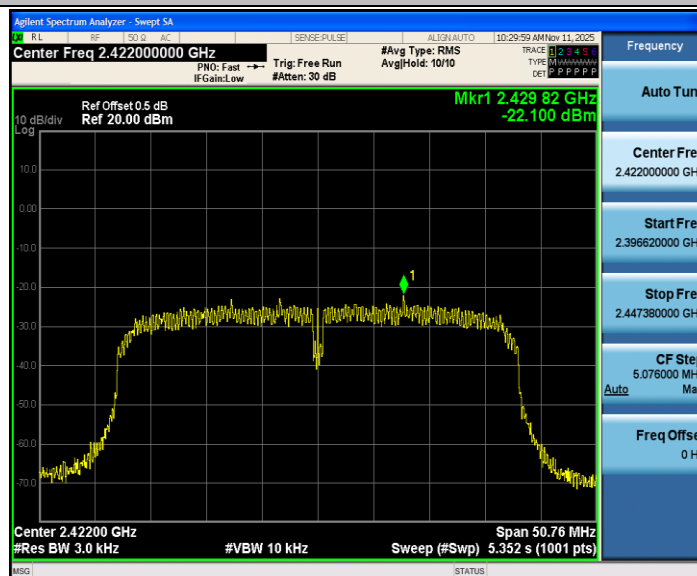
11N20SISO_Ant1_2437



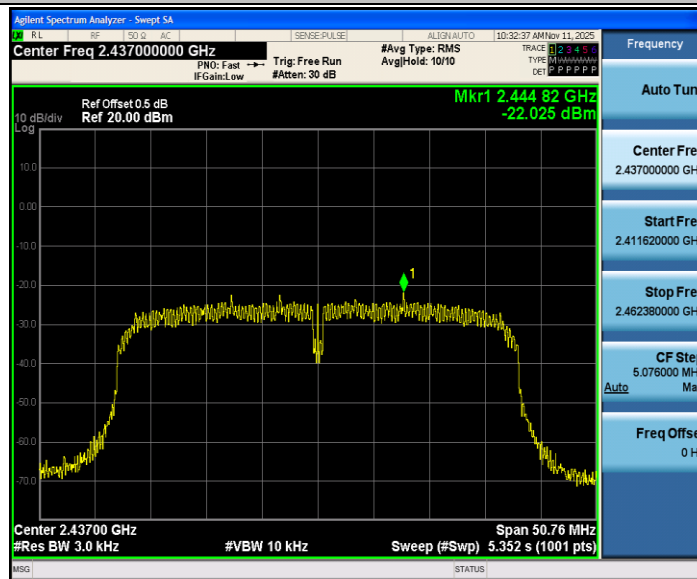
11N20SISO_Ant1_2462



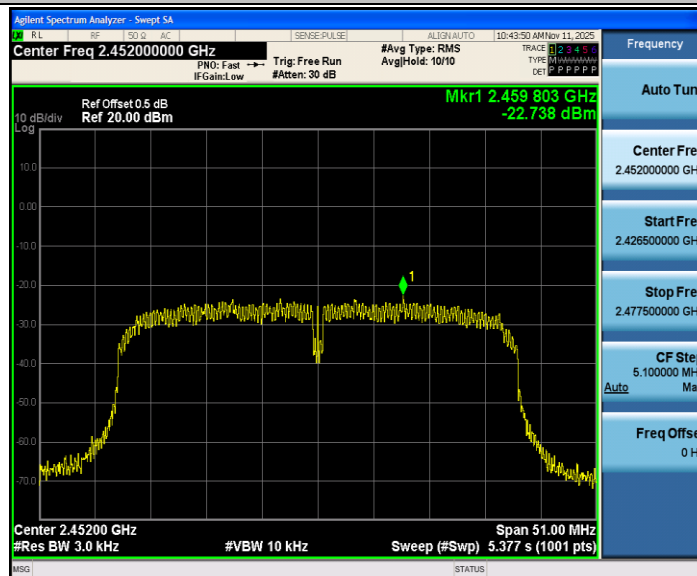
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



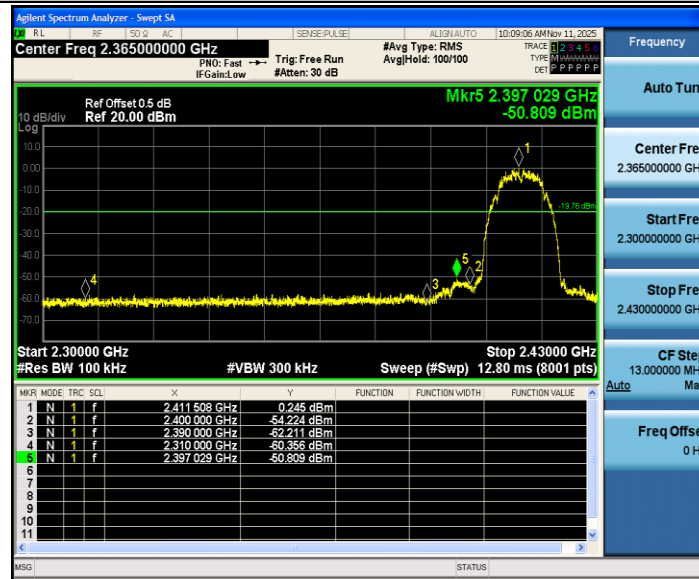
Appendix E: Band edge measurements

Test Result

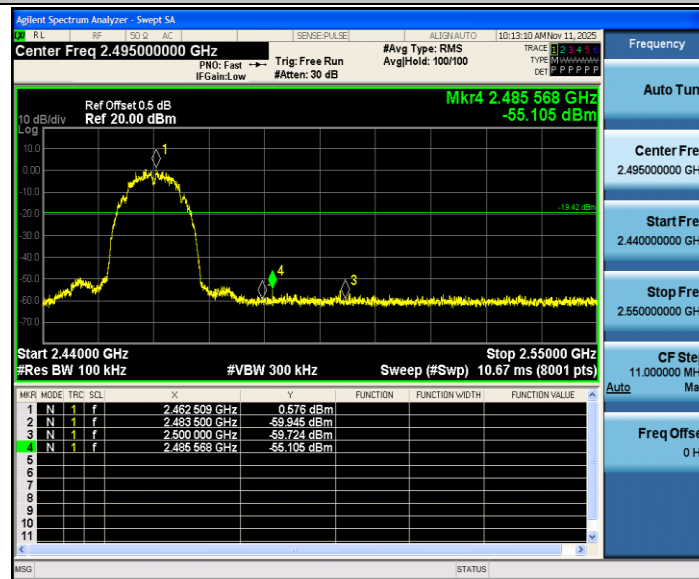
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.25	-50.81	≤-19.76	PASS
		High	2462	0.58	-55.11	≤-19.42	PASS
11G	Ant1	Low	2412	-7.67	-41.92	≤-27.67	PASS
		High	2462	-7.34	-50.12	≤-27.34	PASS
11N20SISO	Ant1	Low	2412	-7.69	-45.02	≤-27.69	PASS
		High	2462	-6.98	-53.24	≤-26.98	PASS
11N40SISO	Ant1	Low	2422	-10.73	-50	≤-30.73	PASS
		High	2452	-10.86	-52.72	≤-30.86	PASS

Test Graphs

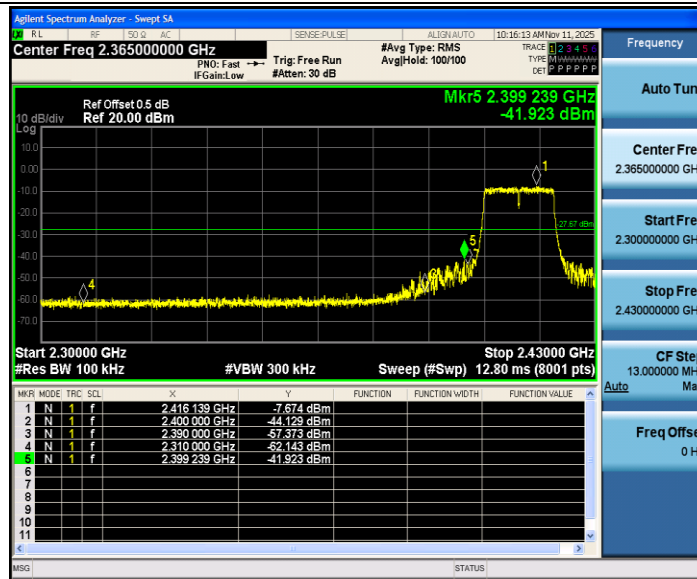
11B_Ant1_Low_2412



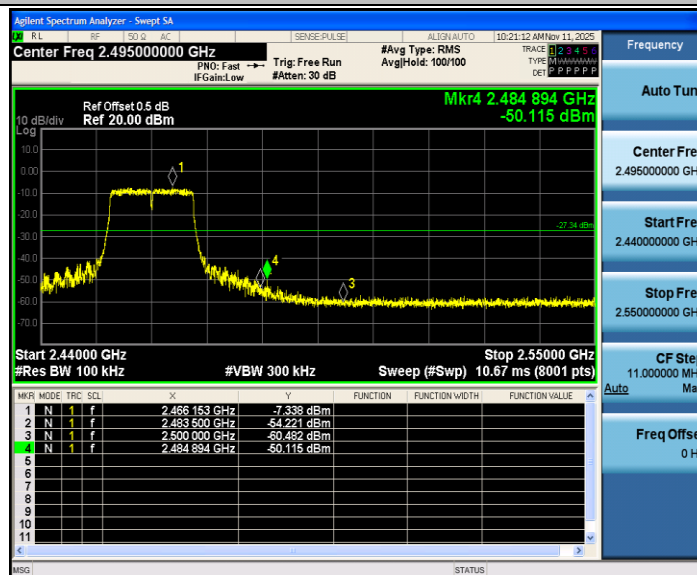
11B_Ant1_High_2462



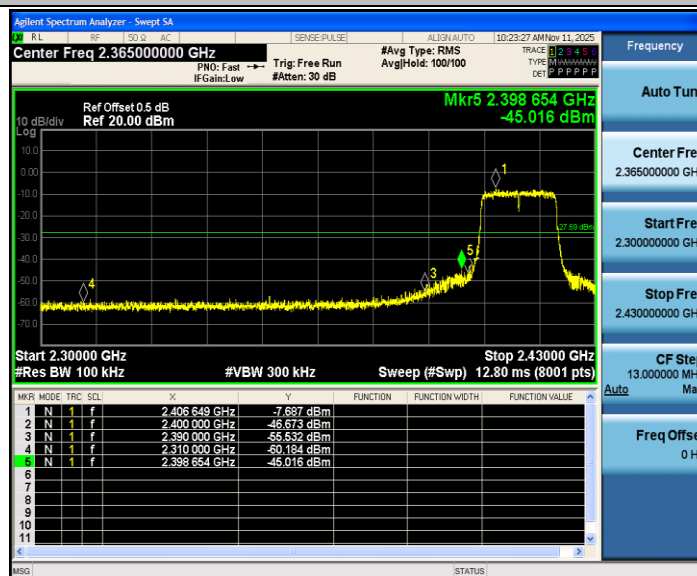
11G_Ant1_Low_2412



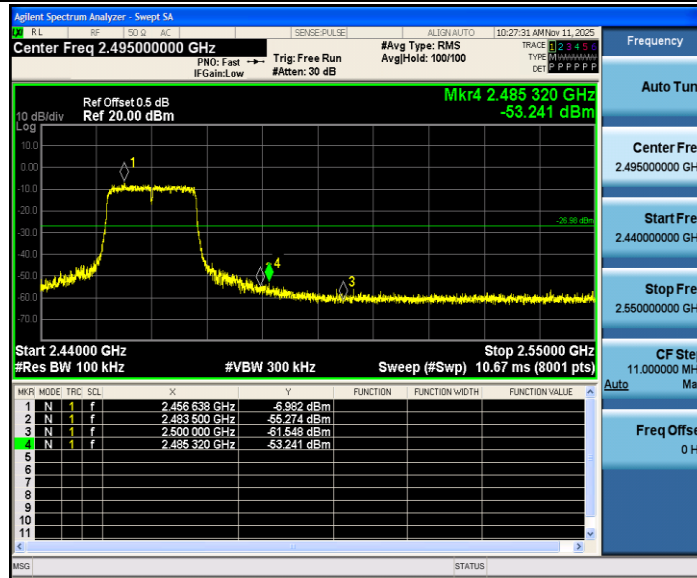
11G_Ant1_High_2462



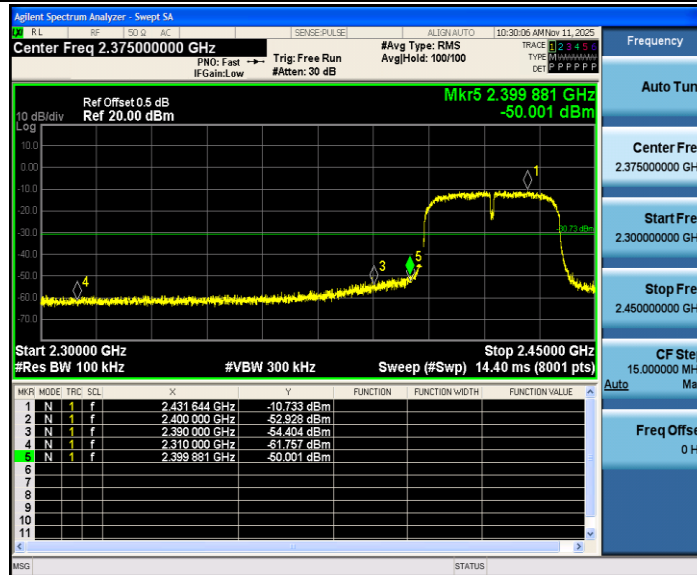
11N20SISO_Ant1_Low_2412



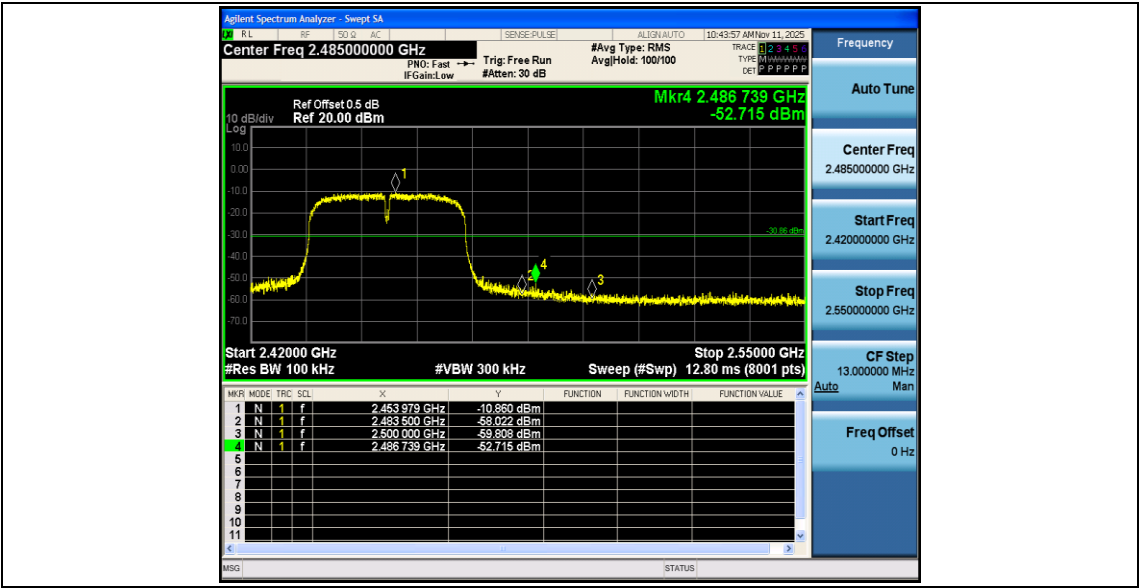
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



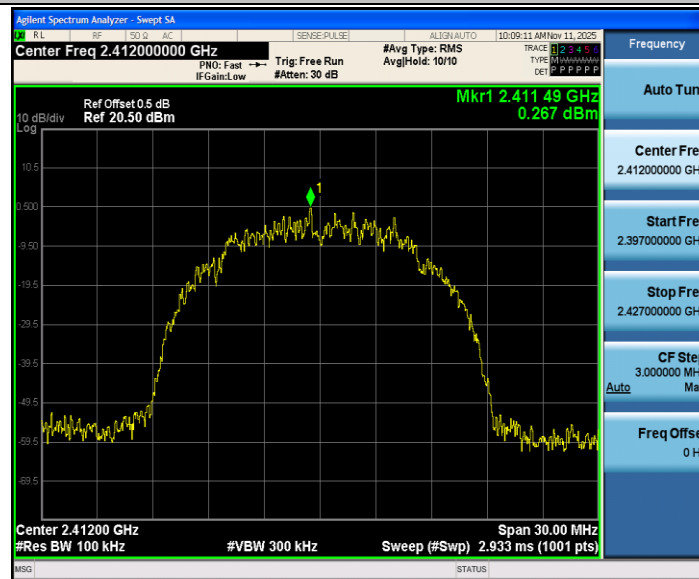
Appendix F: Conducted Spurious Emission

Test Result

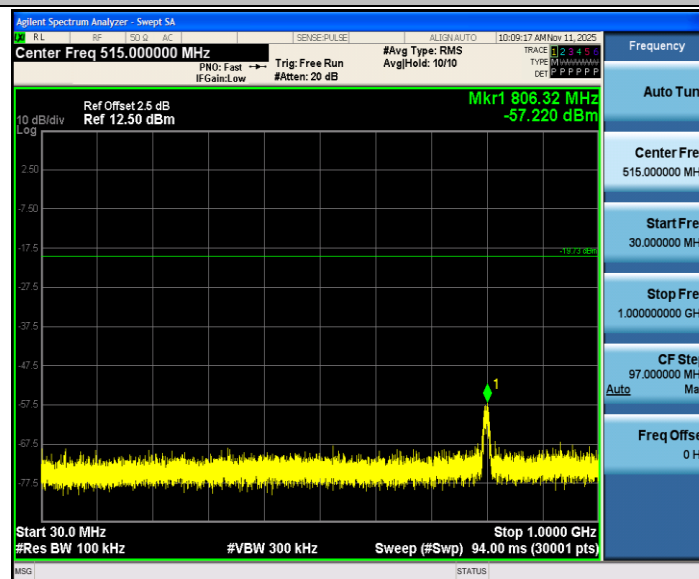
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.27	0.27	---	PASS
			30~1000	0.27	-57.22	≤-19.73	PASS
			1000~26500	0.27	-45.42	≤-19.73	PASS
		2437	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-55.23	≤-20.8	PASS
			1000~26500	-0.80	-45.88	≤-20.8	PASS
		2462	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-56.57	≤-21.04	PASS
			1000~26500	-1.04	-46.23	≤-21.04	PASS
11G	Ant1	2412	Reference	-8.02	-8.02	---	PASS
			30~1000	-8.02	-59.77	≤-28.02	PASS
			1000~26500	-8.02	-44.88	≤-28.02	PASS
		2437	Reference	-7.48	-7.48	---	PASS
			30~1000	-7.48	-60.49	≤-27.48	PASS
			1000~26500	-7.48	-45.42	≤-27.48	PASS
		2462	Reference	-7.63	-7.63	---	PASS
			30~1000	-7.63	-60.15	≤-27.63	PASS
			1000~26500	-7.63	-45.57	≤-27.63	PASS
11N20SISO	Ant1	2412	Reference	-8.41	-8.41	---	PASS
			30~1000	-8.41	-60.28	≤-28.41	PASS
			1000~26500	-8.41	-44.65	≤-28.41	PASS
		2437	Reference	-7.23	-7.23	---	PASS
			30~1000	-7.23	-59.96	≤-27.23	PASS
			1000~26500	-7.23	-45.17	≤-27.23	PASS
		2462	Reference	-8.01	-8.01	---	PASS
			30~1000	-8.01	-59.54	≤-28.01	PASS
			1000~26500	-8.01	-45.82	≤-28.01	PASS
11N40SISO	Ant1	2422	Reference	-10.79	-10.79	---	PASS
			30~1000	-10.79	-61.95	≤-30.79	PASS
			1000~26500	-10.79	-45.04	≤-30.79	PASS
		2437	Reference	-10.71	-10.71	---	PASS
			30~1000	-10.71	-62.12	≤-30.71	PASS
			1000~26500	-10.71	-45.28	≤-30.71	PASS
		2452	Reference	-11.04	-11.04	---	PASS
			30~1000	-11.04	-61.84	≤-31.04	PASS
			1000~26500	-11.04	-45.5	≤-31.04	PASS

Test Graphs

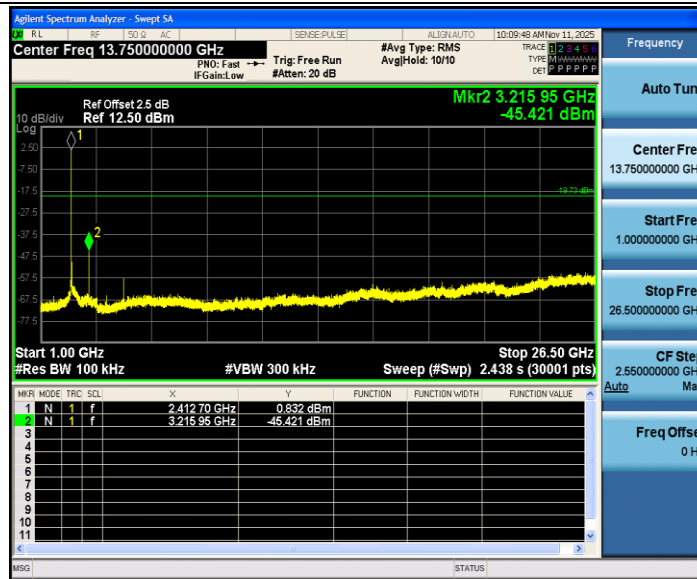
11B_Ant1_2412_0~Reference



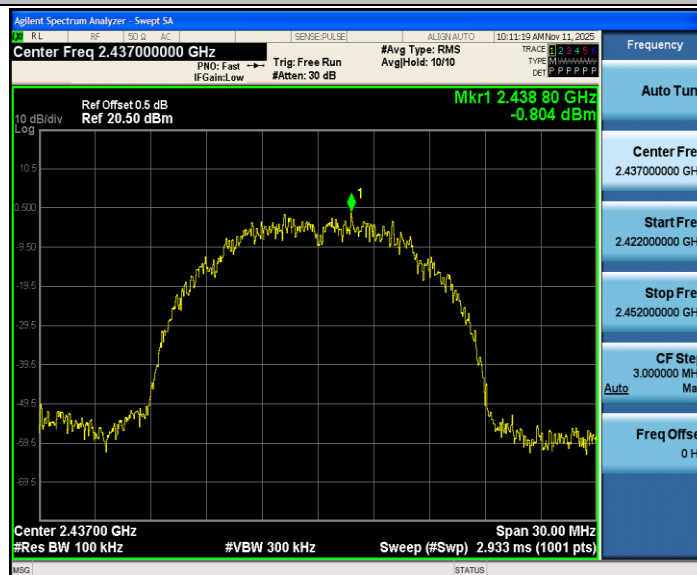
11B_Ant1_2412_30~1000



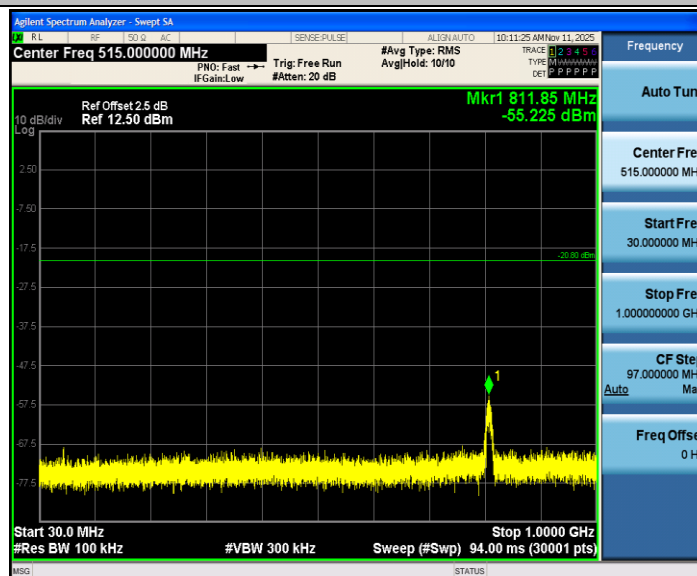
11B_Ant1_2412_1000~26500



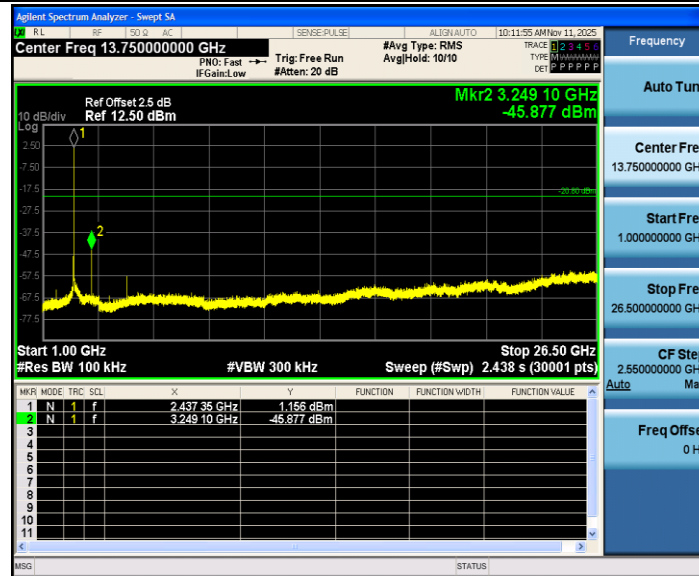
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



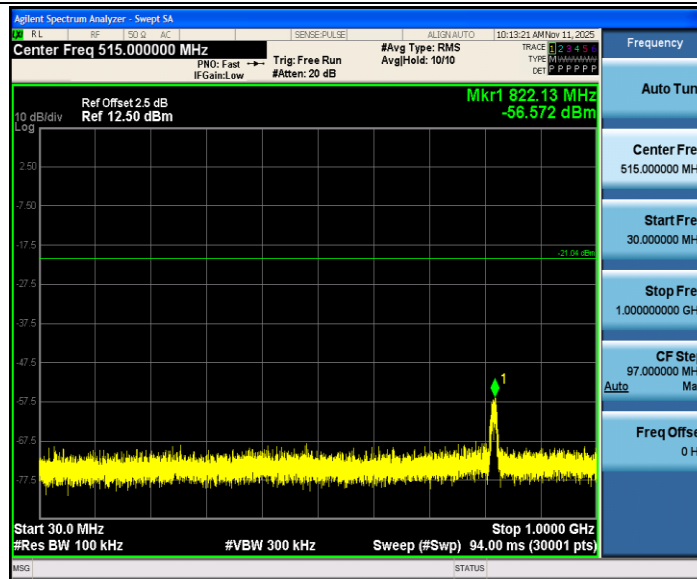
11B_Ant1_2437_1000~26500



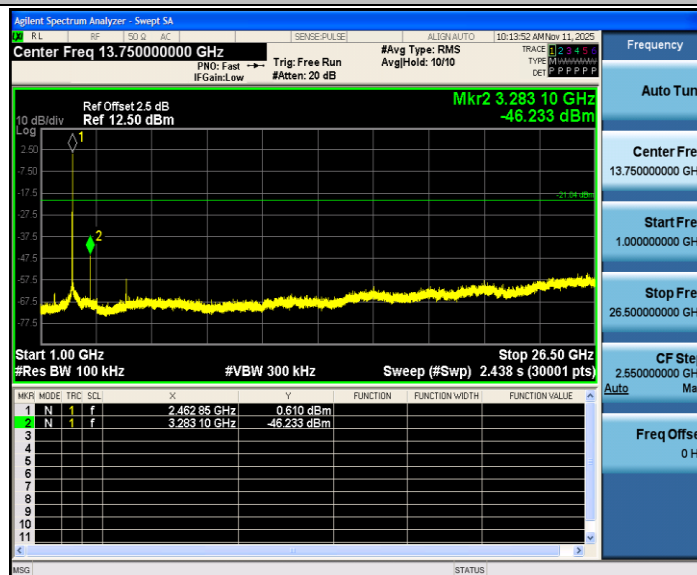
11B_Ant1_2462_0~Reference



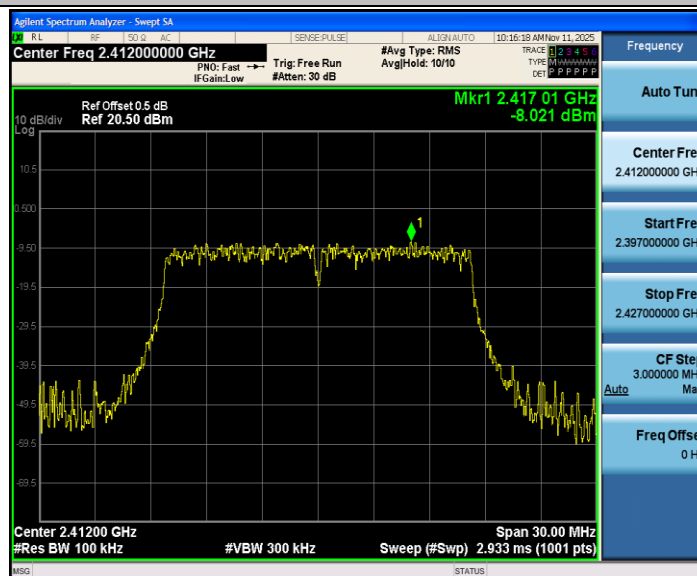
11B_Ant1_2462_30~1000



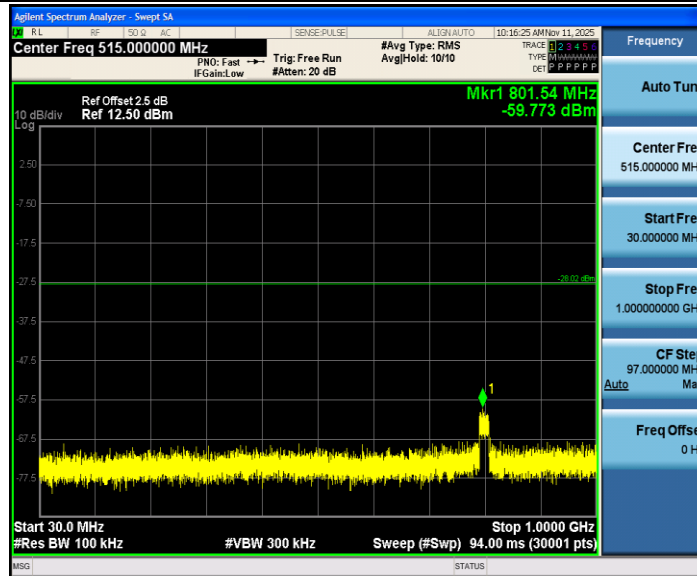
11B_Ant1_2462_1000~26500



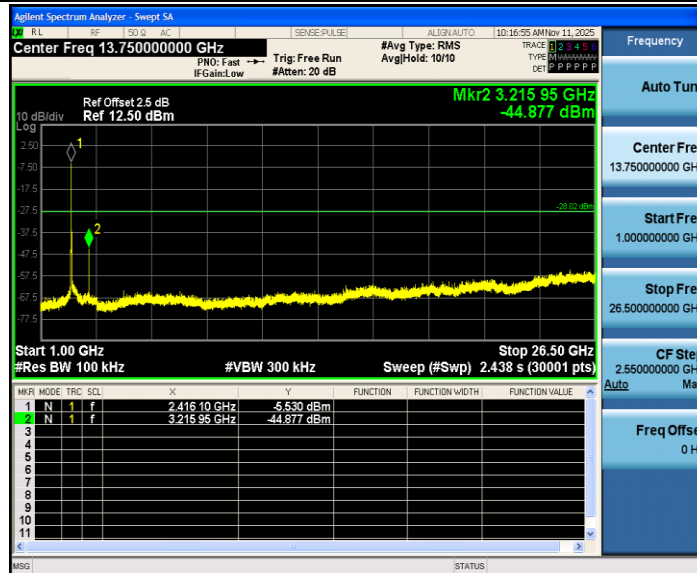
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



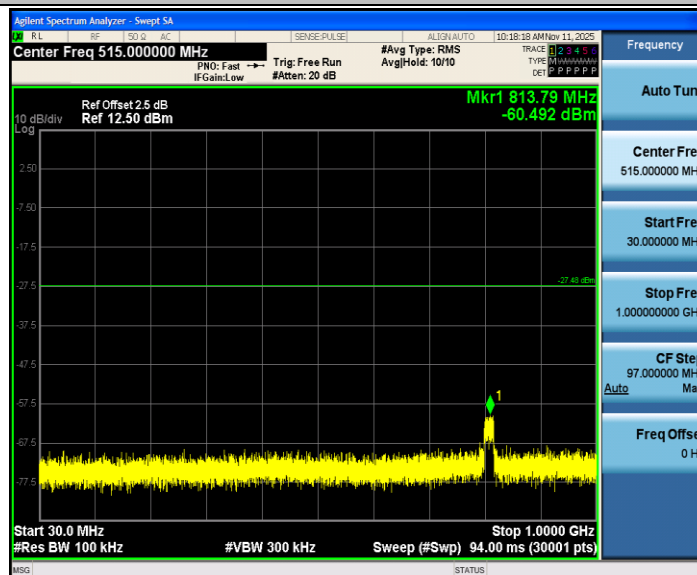
11G_Ant1_2412_1000~26500



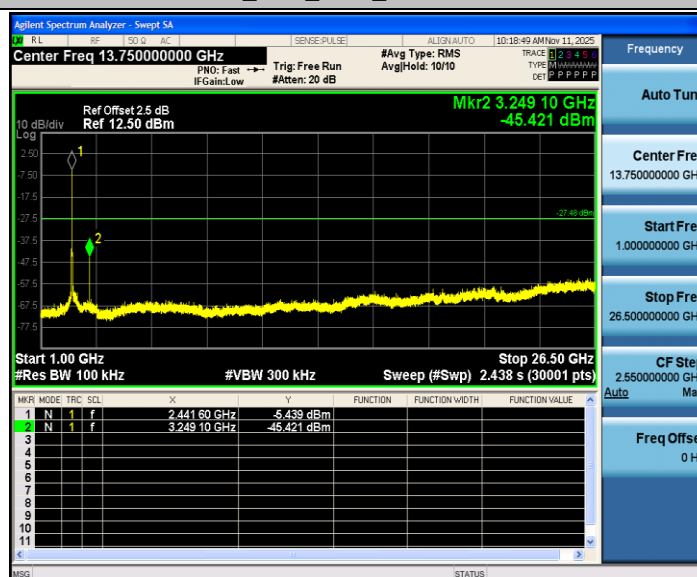
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



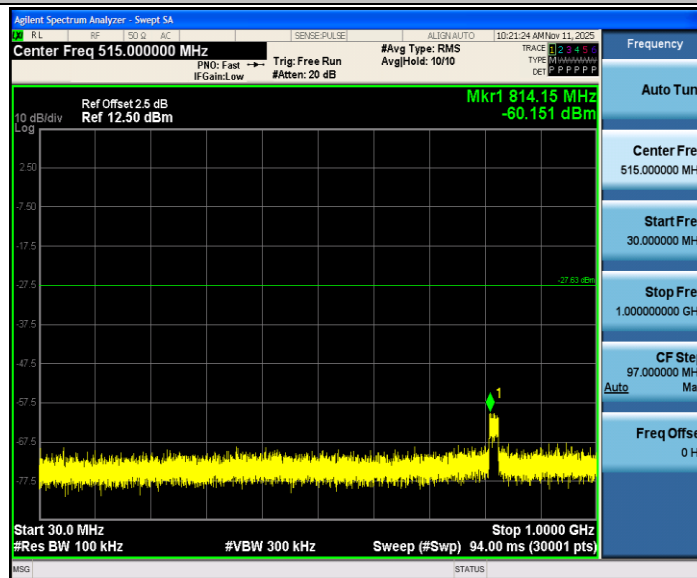
11G_Ant1_2437_1000~26500



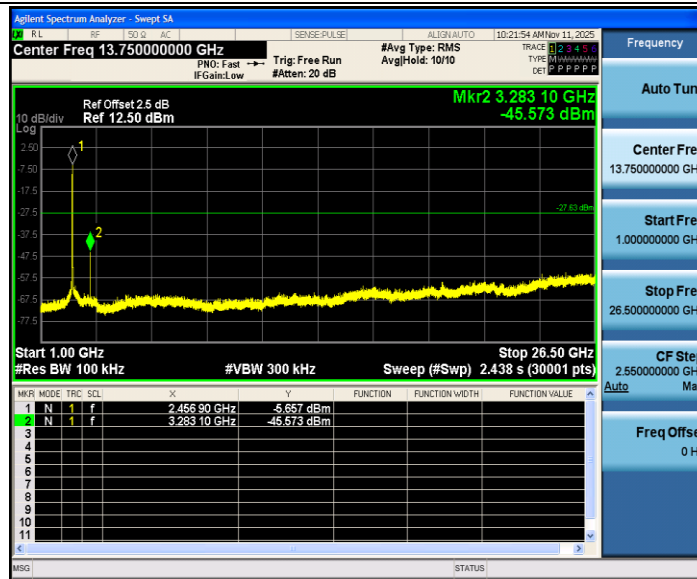
11G_Ant1_2462_0~Reference



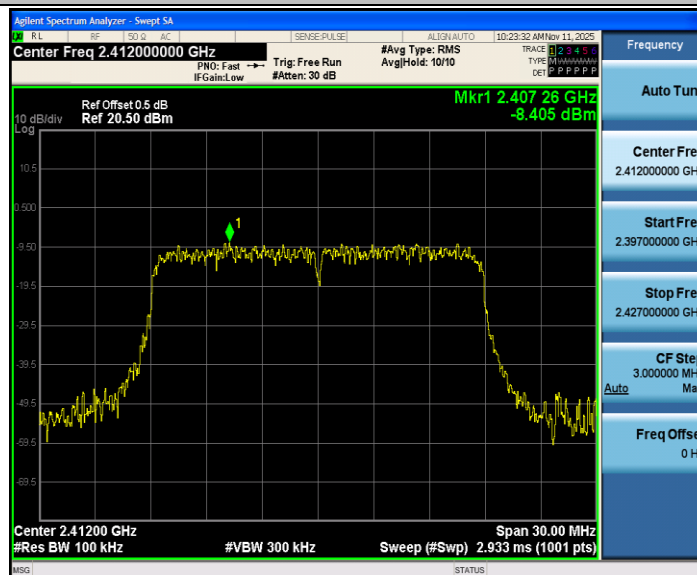
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

