

Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BR5I-X1

Company : ATLITE Industrial Entity Co., Limited

EUT : WIFI INDOOR SECURITY PT CAMERA

Model Number : X1

Report No. : CTA25082702501

Reviewed By : Eric Wang

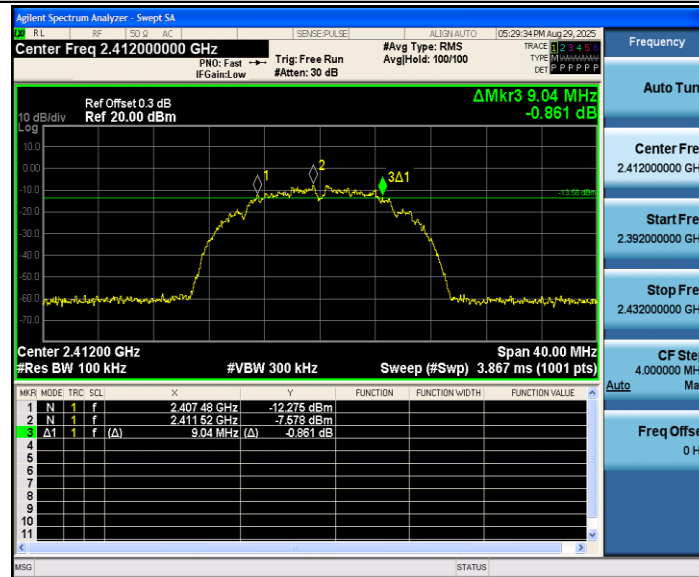
Appendix A: DTS Bandwidth

Test Result

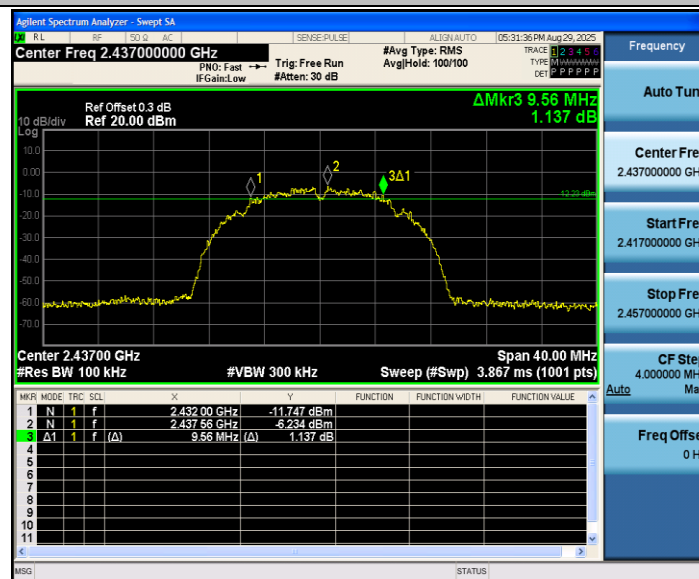
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	0.5	PASS
		2437	9.560	2432.000	2441.560	0.5	PASS
		2462	9.120	2457.440	2466.560	0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	0.5	PASS
		2437	16.520	2428.760	2445.280	0.5	PASS
		2462	16.520	2453.760	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.560	2428.240	2445.800	0.5	PASS
		2462	17.520	2453.240	2470.760	0.5	PASS
11N40SISO	Ant1	2422	33.280	2405.360	2438.640	0.5	PASS
		2437	33.200	2420.680	2453.880	0.5	PASS
		2452	33.520	2435.360	2468.880	0.5	PASS

Test Graphs

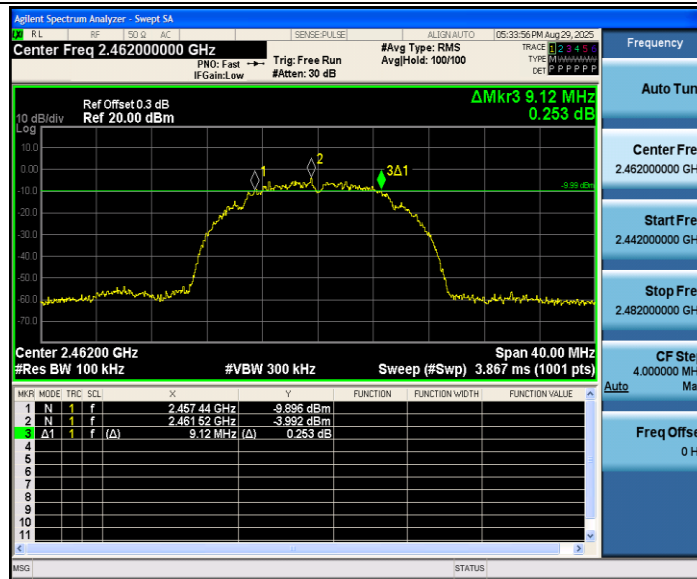
11B_Ant1_2412



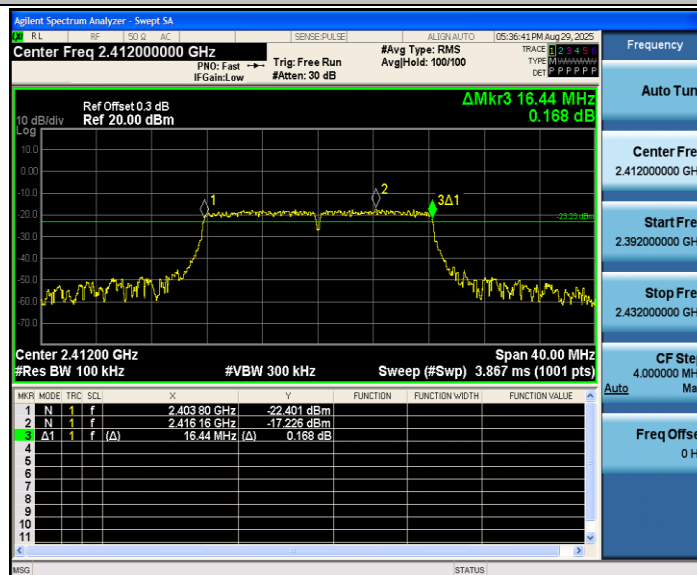
11B_Ant1_2437



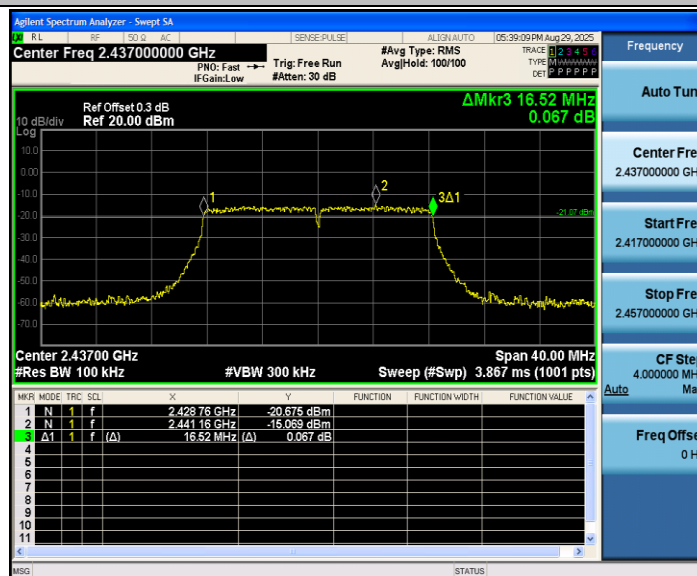
11B_Ant1_2462



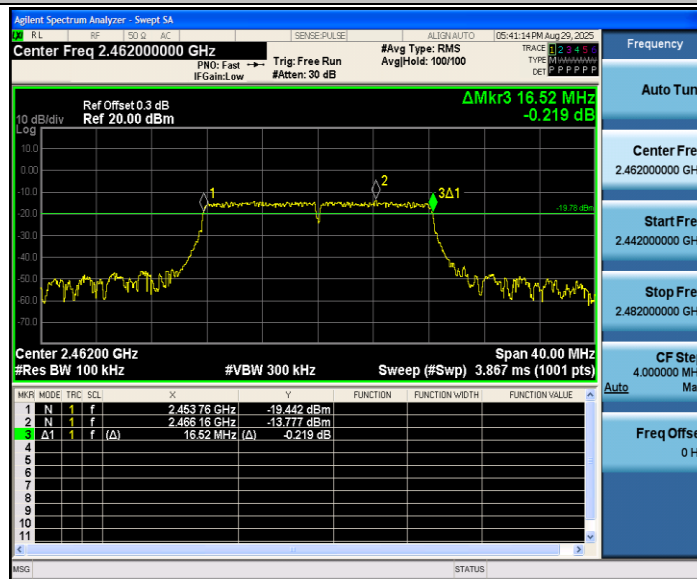
11G_Ant1_2412



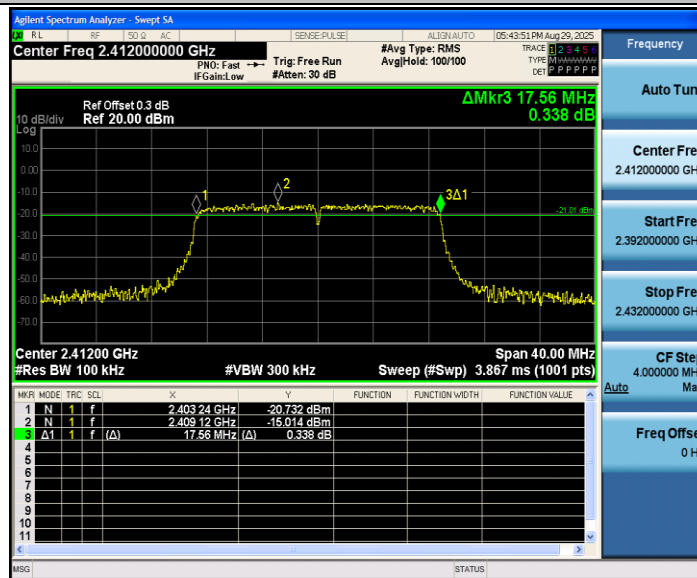
11G_Ant1_2437



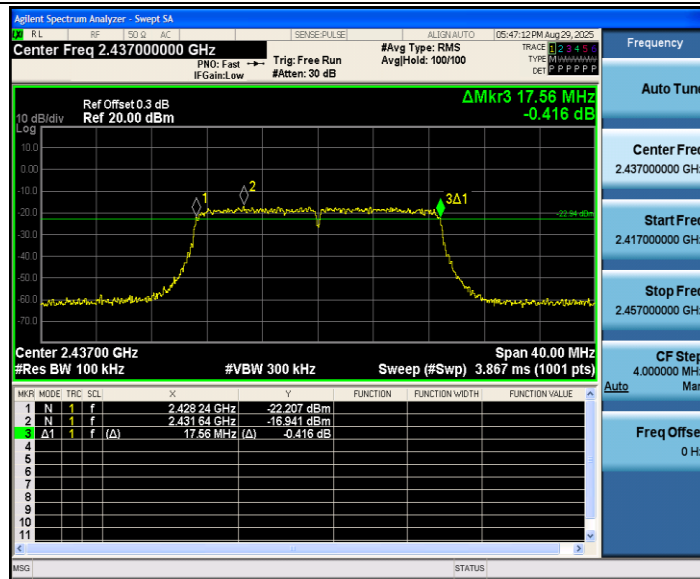
11G_Ant1_2462



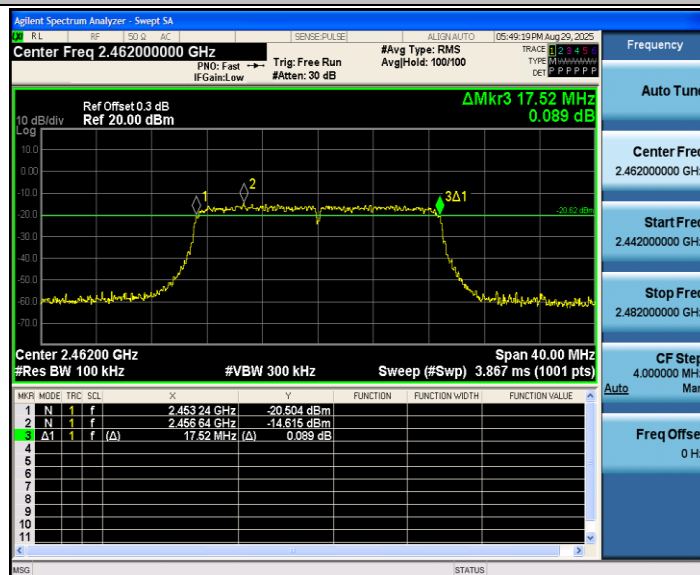
11N20SISO_Ant1_2412



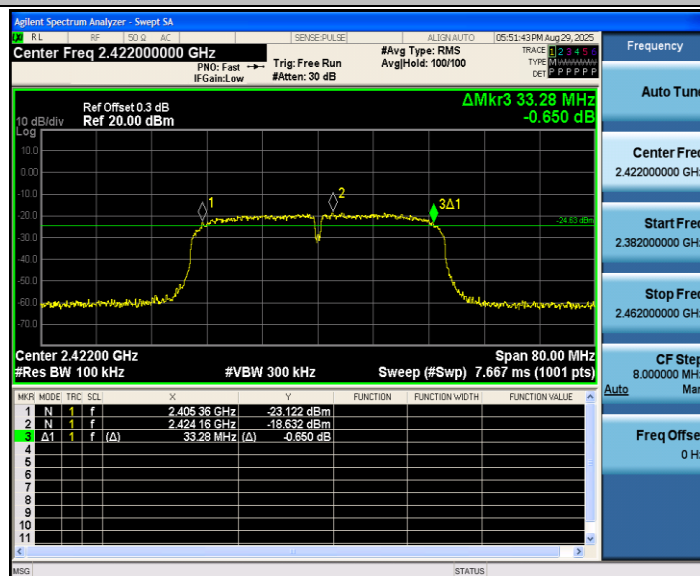
11N20SISO_Ant1_2437



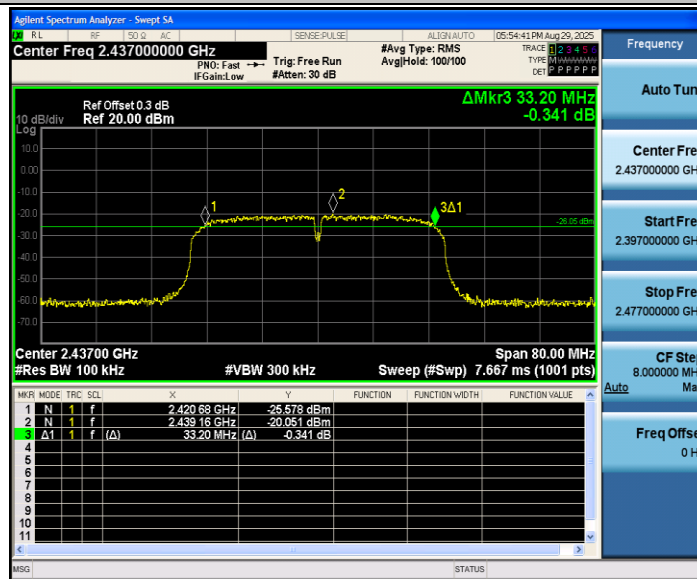
11N20SISO_Ant1_2462



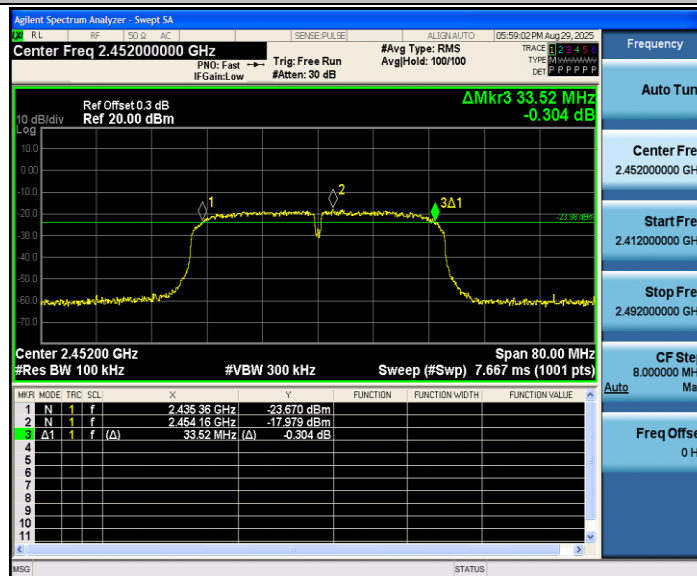
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



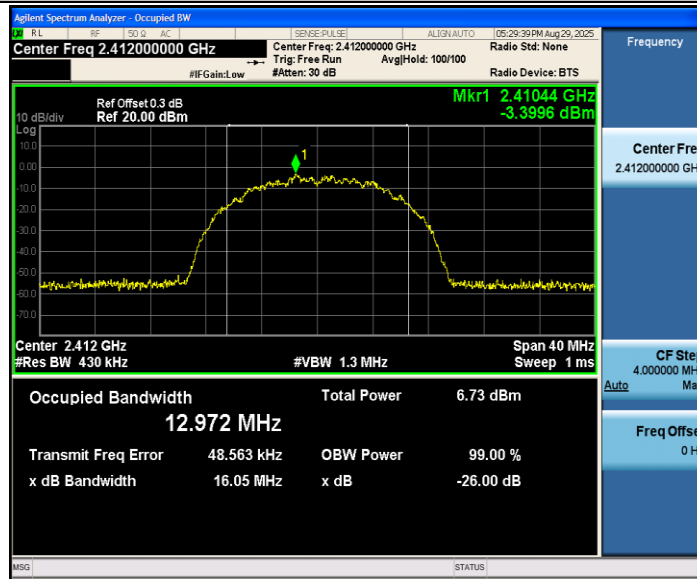
Appendix B: Occupied Channel Bandwidth

Test Result

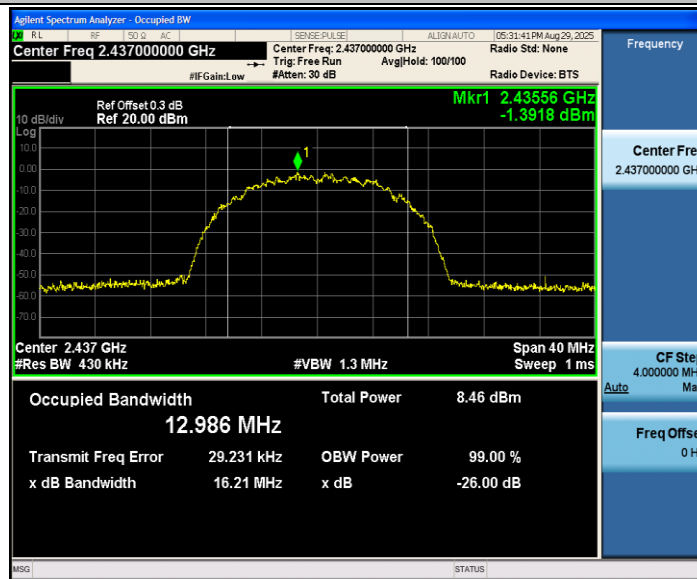
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.972	2405.5626	2418.5346	---	---
		2437	12.986	2430.5362	2443.5222	---	---
		2462	12.986	2455.5273	2468.5133	---	---
11G	Ant1	2412	16.627	2403.7461	2420.3731	---	---
		2437	16.580	2428.7523	2445.3323	---	---
		2462	16.590	2453.7363	2470.3263	---	---
11N20SISO	Ant1	2412	17.448	2403.3297	2420.7777	---	---
		2437	17.459	2428.3122	2445.7712	---	---
		2462	17.480	2453.2933	2470.7733	---	---
11N40SISO	Ant1	2422	34.835	2404.7646	2439.5996	---	---
		2437	34.778	2419.7449	2454.5229	---	---
		2452	34.861	2434.6777	2469.5387	---	---

Test Graphs

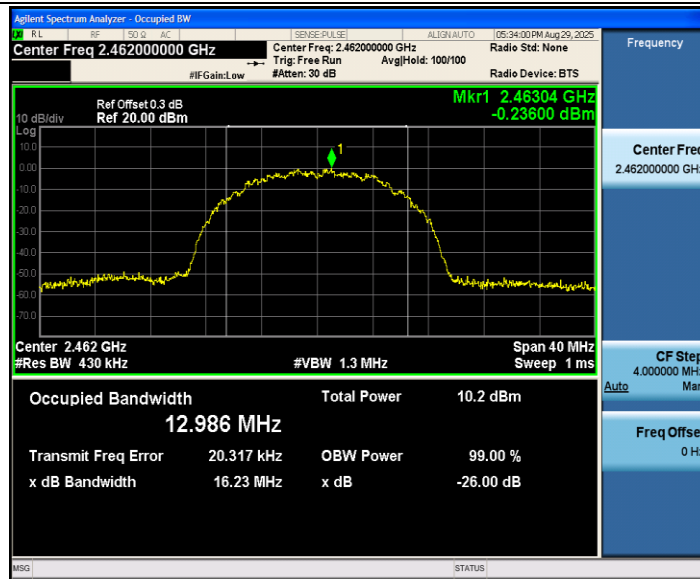
11B_Ant1_2412



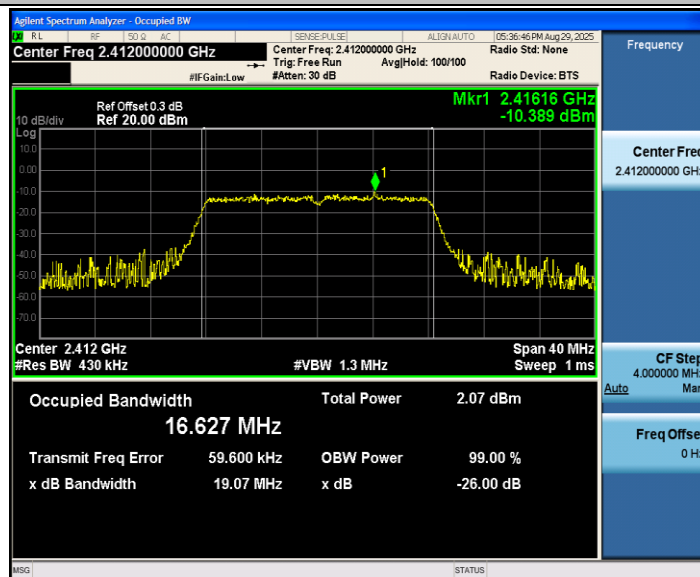
11B_Ant1_2437



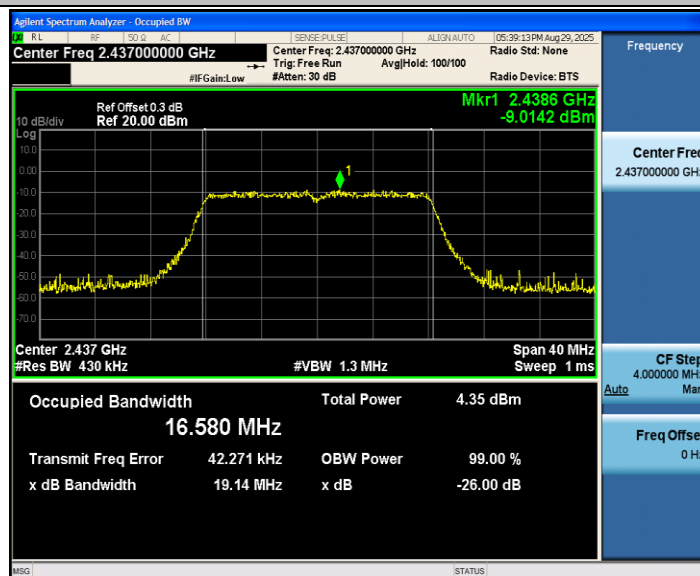
11B_Ant1_2462



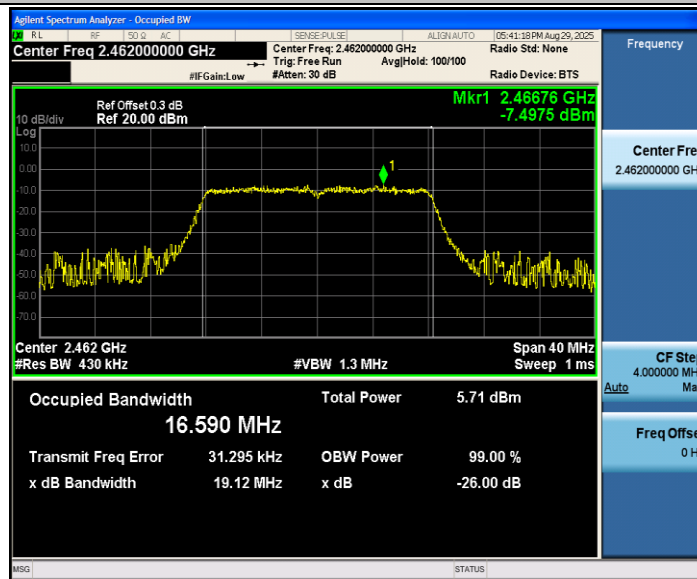
11G_Ant1_2412



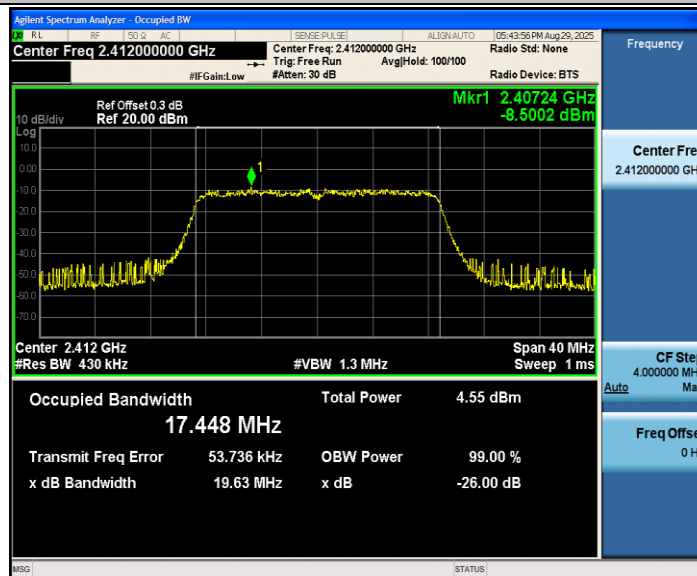
11G_Ant1_2437



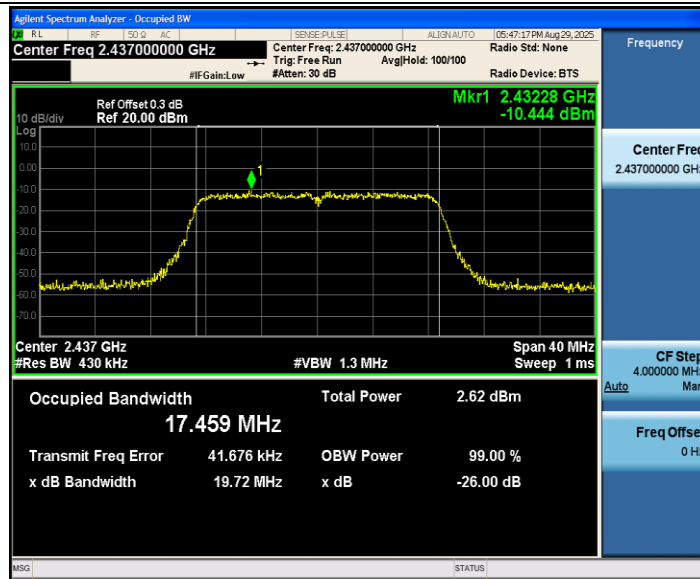
11G_Ant1_2462



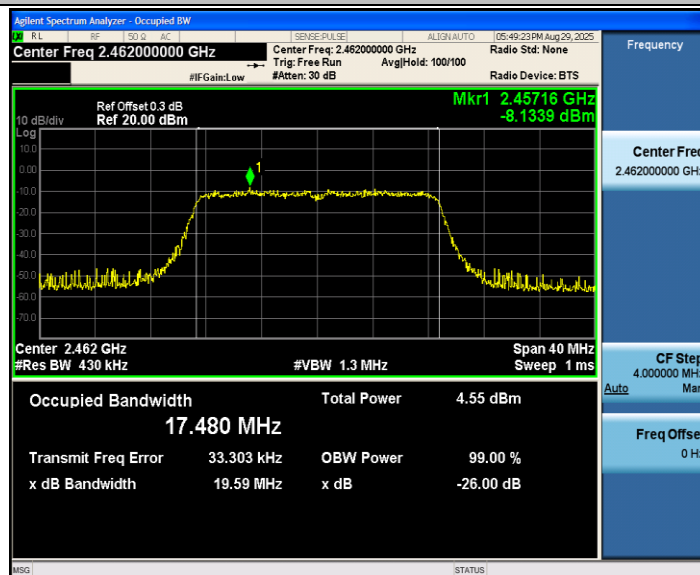
11N20SISO_Ant1_2412



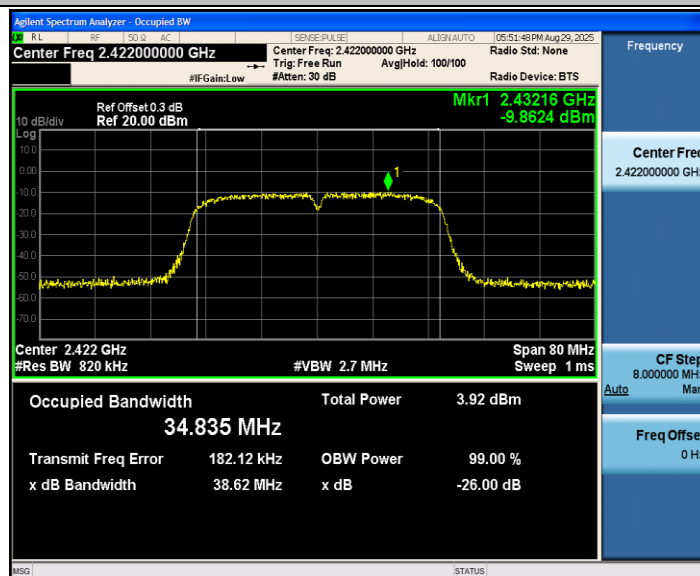
11N20SISO_Ant1_2437



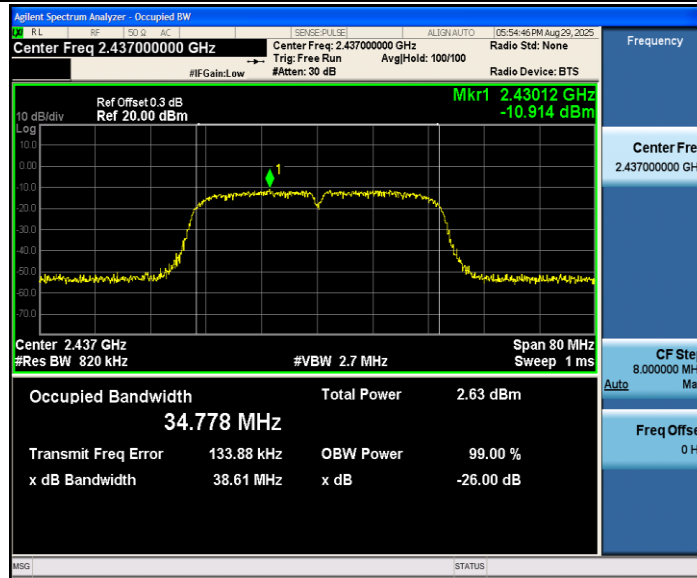
11N20SISO_Ant1_2462



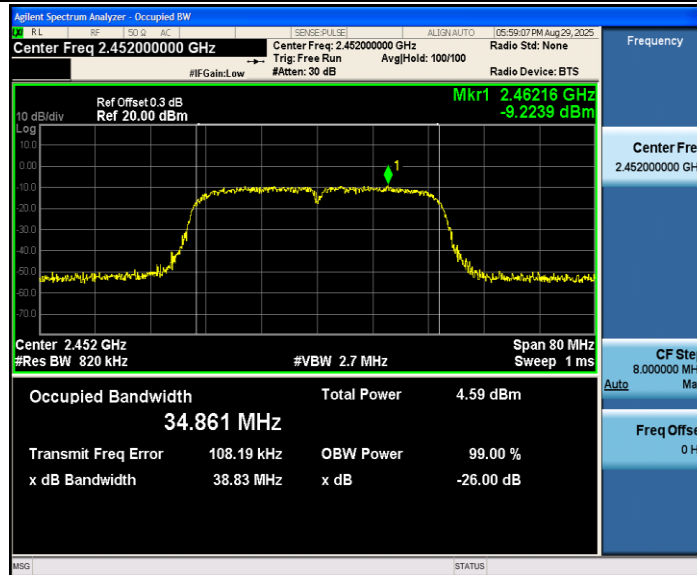
11N40SISO_Ant1_2422



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	6.30	≤30.00	PASS
		2437	5.71	≤30.00	PASS
		2462	5.94	≤30.00	PASS
11G	Ant1	2412	5.58	≤30.00	PASS
		2437	5.22	≤30.00	PASS
		2462	5.56	≤30.00	PASS
11N20SISO	Ant1	2412	4.73	≤30.00	PASS
		2437	3.92	≤30.00	PASS
		2462	5.69	≤30.00	PASS
11N40SISO	Ant1	2422	4.22	≤30.00	PASS
		2437	4.87	≤30.00	PASS
		2452	4.91	≤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	-22.96	≤8.00	PASS
		2437	-23.26	≤8.00	PASS
		2462	-22.94	≤8.00	PASS
11G	Ant1	2412	-28.90	≤8.00	PASS
		2437	-29.19	≤8.00	PASS
		2462	-28.84	≤8.00	PASS
11N20SISO	Ant1	2412	-29.80	≤8.00	PASS
		2437	-30.77	≤8.00	PASS
		2462	-28.71	≤8.00	PASS
11N40SISO	Ant1	2422	-30.21	≤8.00	PASS
		2437	-29.83	≤8.00	PASS
		2452	-30.24	≤8.00	PASS

Test Graphs

11B_Ant1_2412



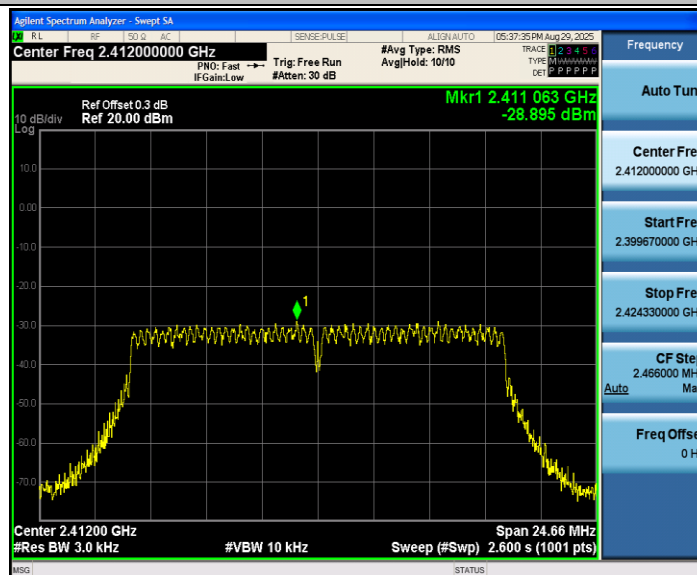
11B_Ant1_2437



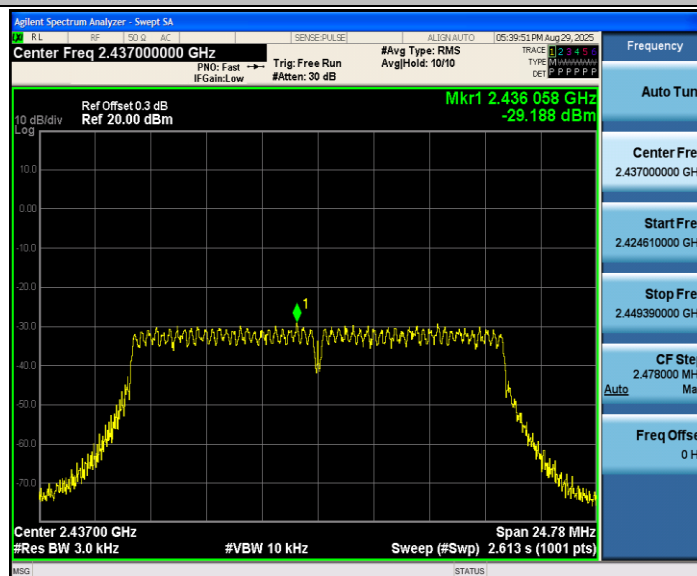
11B_Ant1_2462



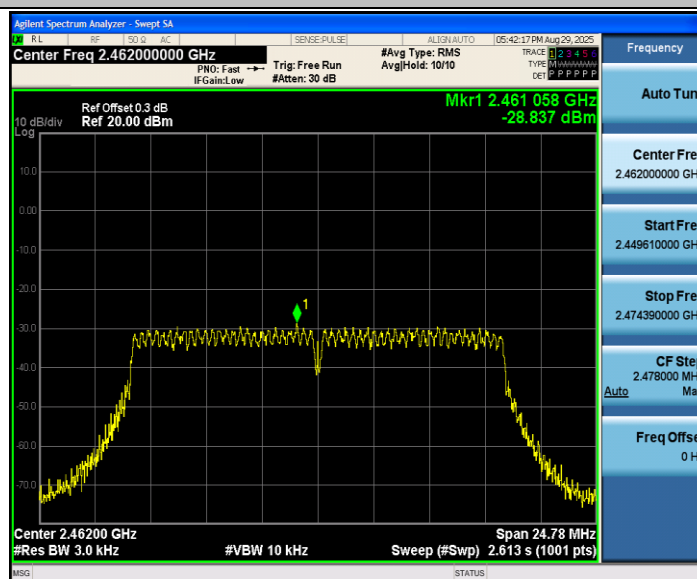
11G_Ant1_2412



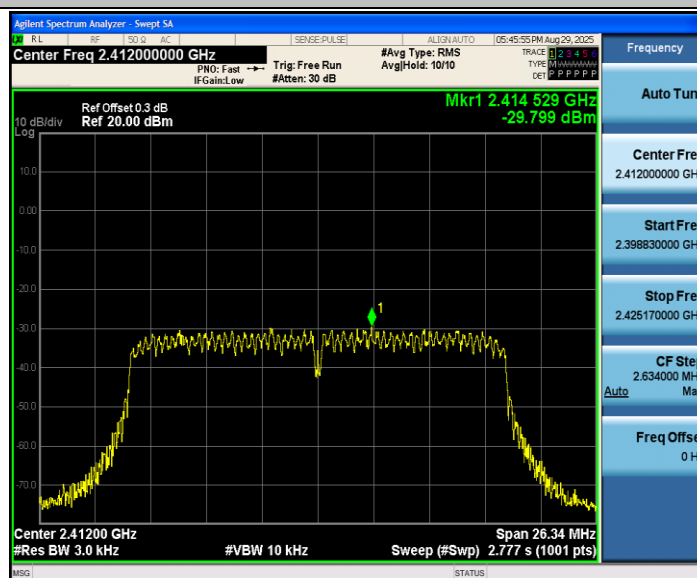
11G_Ant1_2437



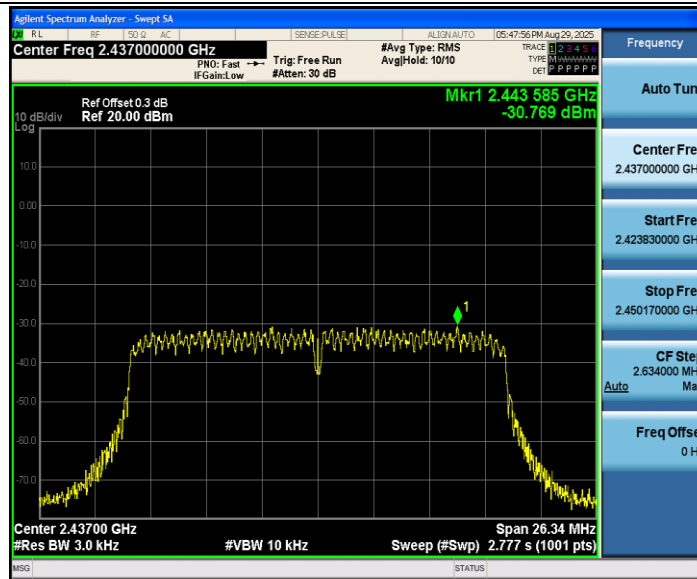
11G_Ant1_2462



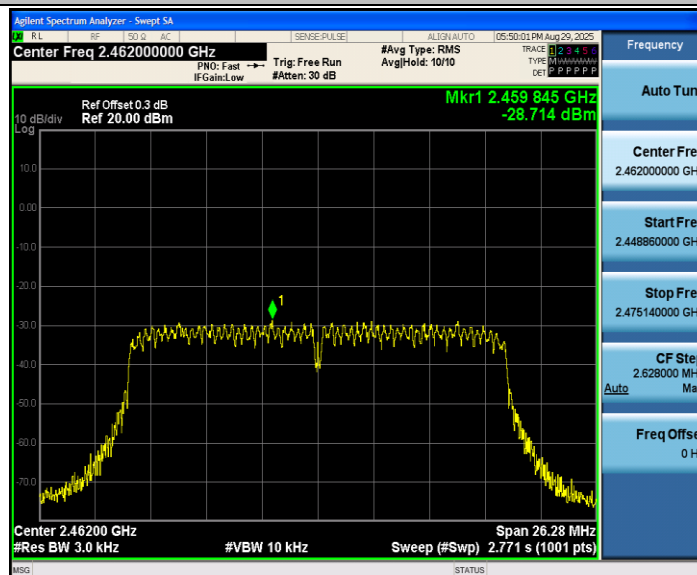
11N20SISO_Ant1_2412



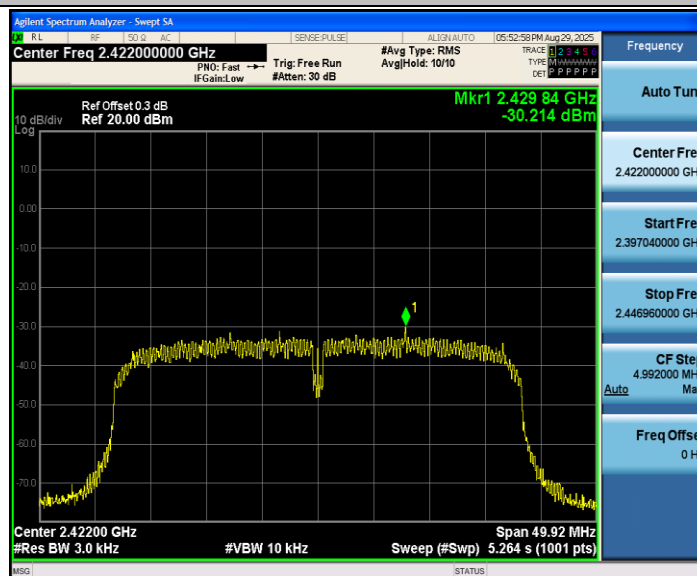
11N20SISO_Ant1_2437



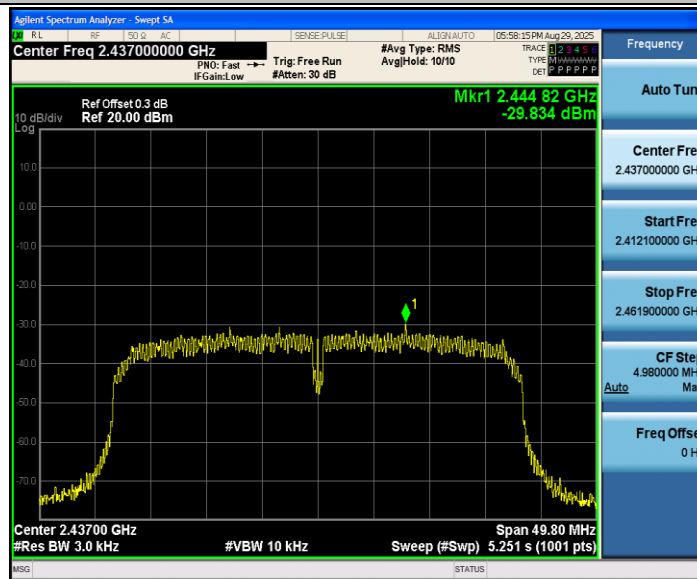
11N20SISO_Ant1_2462



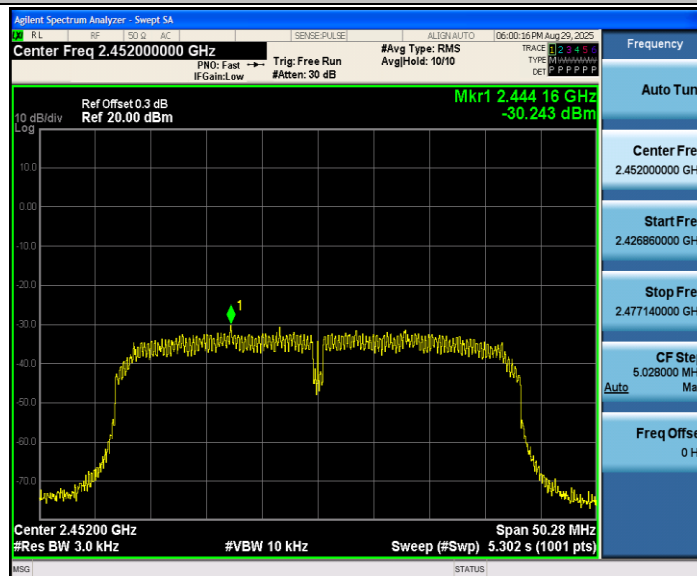
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



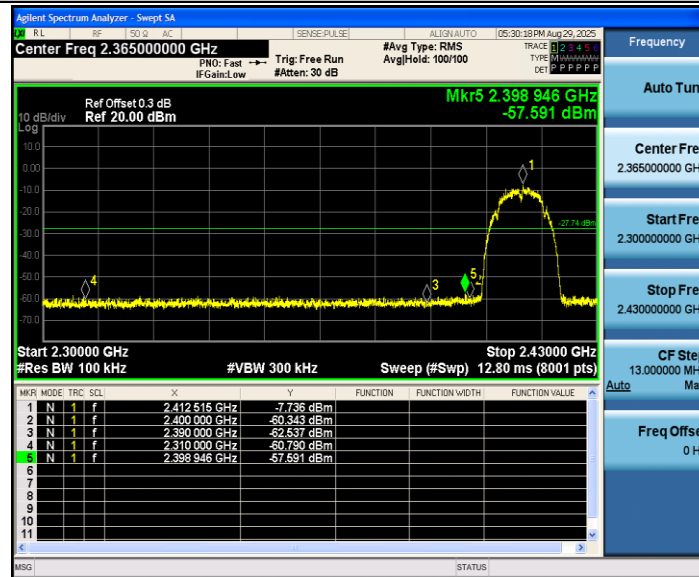
Appendix E: Band edge measurements

Test Result

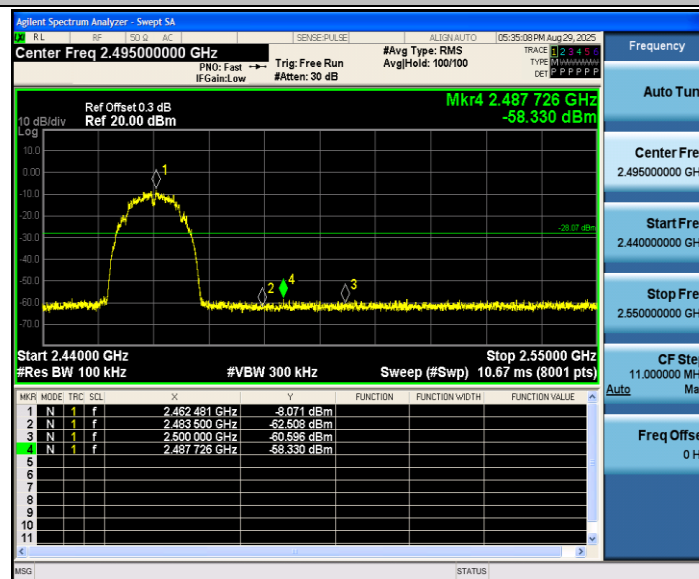
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-7.74	-57.59	≤-27.74	PASS
		High	2462	-8.07	-58.33	≤-28.07	PASS
11G	Ant1	Low	2412	-14.77	-49.75	≤-34.77	PASS
		High	2462	-15.10	-57.61	≤-35.1	PASS
11N20SISO	Ant1	Low	2412	-15.13	-51.57	≤-35.13	PASS
		High	2462	-15.21	-57.49	≤-35.21	PASS
11N40SISO	Ant1	Low	2422	-18.89	-56.99	≤-38.89	PASS
		High	2452	-18.07	-57.68	≤-38.07	PASS

Test Graphs

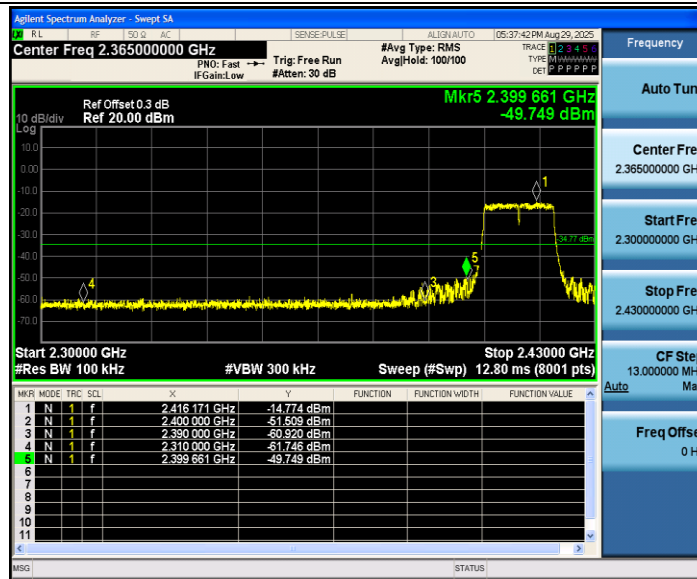
11B_Ant1_Low_2412



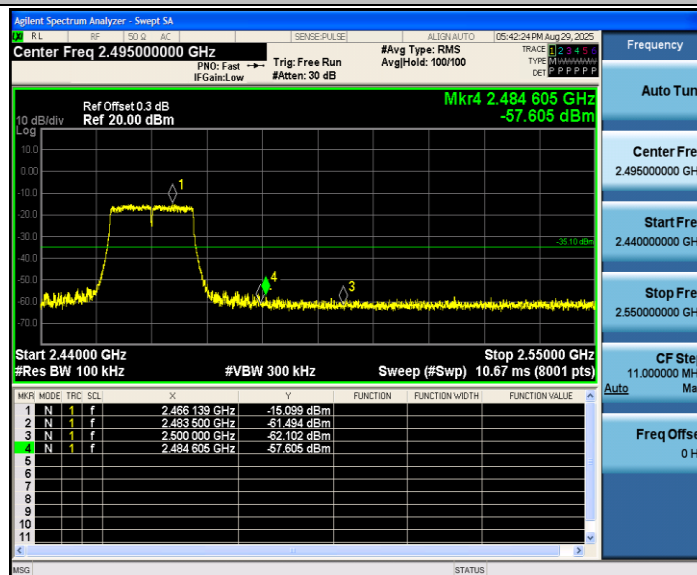
11B_Ant1_High_2462



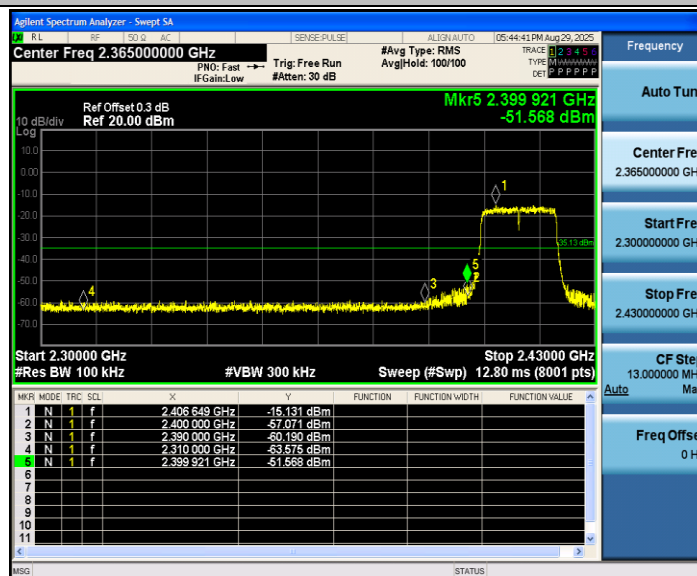
11G_Ant1_Low_2412



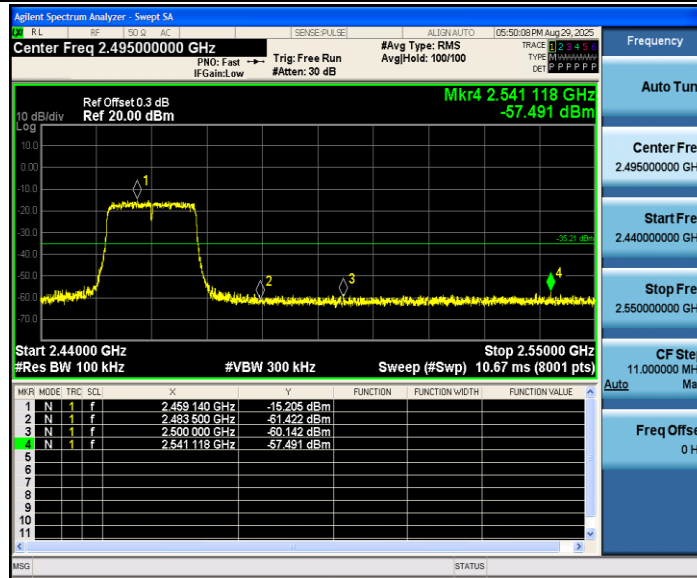
11G_Ant1_High_2462



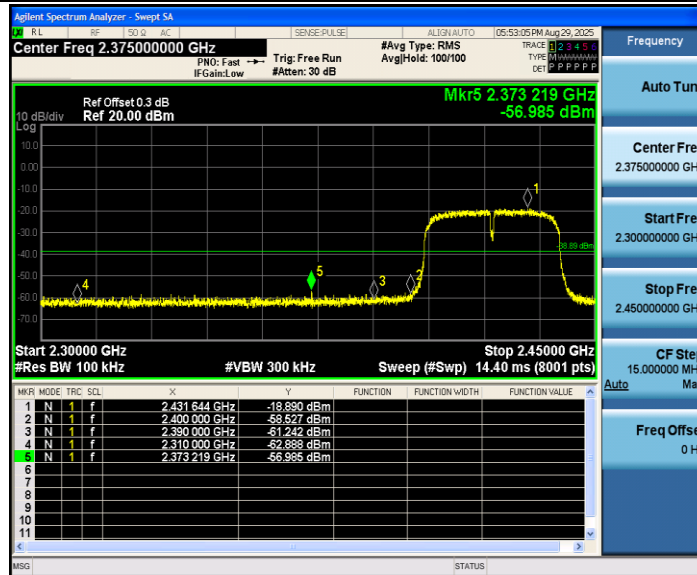
11N20SISO_Ant1_Low_2412



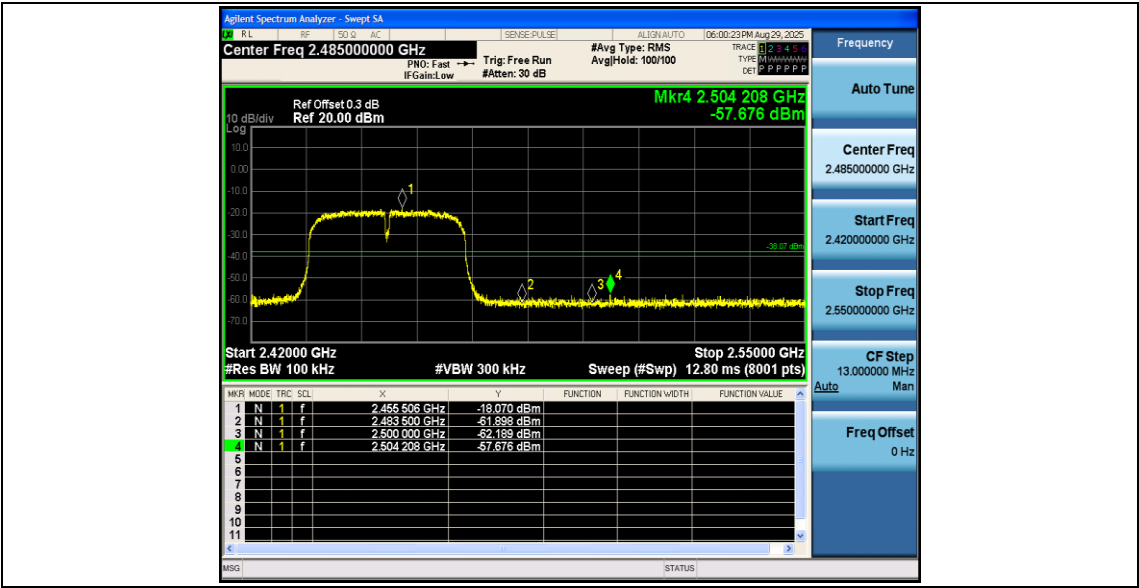
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



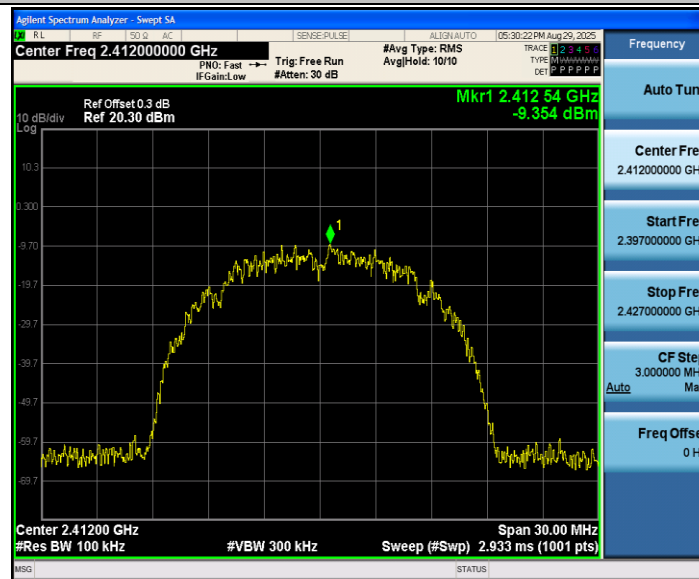
Appendix F: Conducted Spurious Emission

Test Result

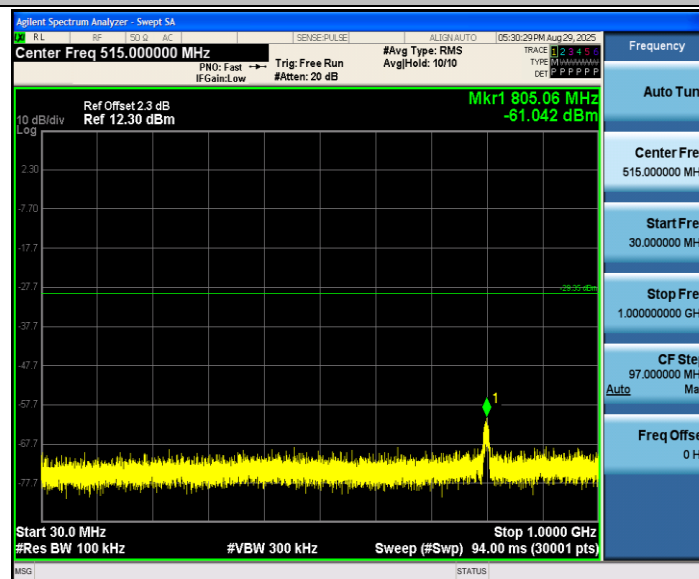
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-9.35	-9.35	---	PASS
			30~1000	-9.35	-61.04	≤-29.35	PASS
			1000~26500	-9.35	-44.53	≤-29.35	PASS
		2437	Reference	-9.47	-9.47	---	PASS
			30~1000	-9.47	-61.3	≤-29.47	PASS
			1000~26500	-9.47	-45.25	≤-29.47	PASS
		2462	Reference	-8.19	-8.19	---	PASS
			30~1000	-8.19	-60.96	≤-28.19	PASS
			1000~26500	-8.19	-45.92	≤-28.19	PASS
11G	Ant1	2412	Reference	-15.48	-15.48	---	PASS
			30~1000	-15.48	-64.3	≤-35.48	PASS
			1000~26500	-15.48	-44.33	≤-35.48	PASS
		2437	Reference	-16.01	-16.01	---	PASS
			30~1000	-16.01	-64.9	≤-36.01	PASS
			1000~26500	-16.01	-44.95	≤-36.01	PASS
		2462	Reference	-14.89	-14.89	---	PASS
			30~1000	-14.89	-65.17	≤-34.89	PASS
			1000~26500	-14.89	-46	≤-34.89	PASS
11N20SISO	Ant1	2412	Reference	-16.77	-16.77	---	PASS
			30~1000	-16.77	-65.14	≤-36.77	PASS
			1000~26500	-16.77	-44.26	≤-36.77	PASS
		2437	Reference	-17.71	-17.71	---	PASS
			30~1000	-17.71	-65.24	≤-37.71	PASS
			1000~26500	-17.71	-45.02	≤-37.71	PASS
		2462	Reference	-15.81	-15.81	---	PASS
			30~1000	-15.81	-63.94	≤-35.81	PASS
			1000~26500	-15.81	-46.21	≤-35.81	PASS
11N40SISO	Ant1	2422	Reference	-19.34	-19.34	---	PASS
			30~1000	-19.34	-66.89	≤-39.34	PASS
			1000~26500	-19.34	-44.69	≤-39.34	PASS
		2437	Reference	-20.72	-20.72	---	PASS
			30~1000	-20.72	-67.04	≤-40.72	PASS
			1000~26500	-20.72	-44.75	≤-40.72	PASS
		2452	Reference	-18.57	-18.57	---	PASS
			30~1000	-18.57	-65.21	≤-38.57	PASS
			1000~26500	-18.57	-45.8	≤-38.57	PASS

Test Graphs

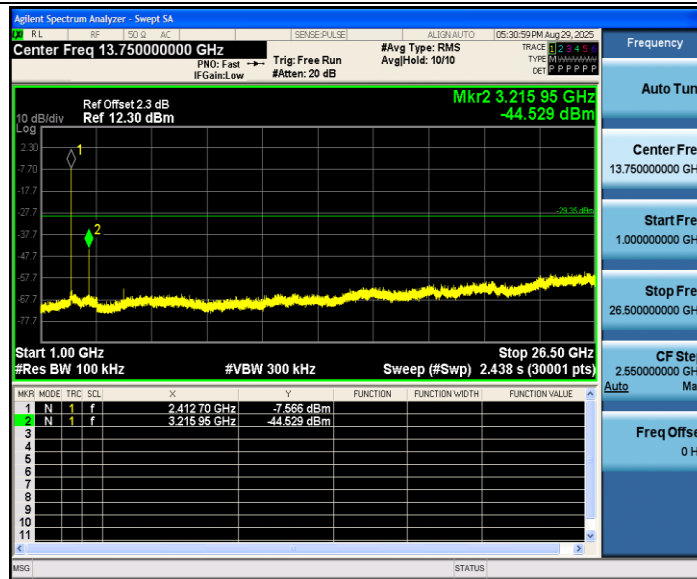
11B_Ant1_2412_0~Reference



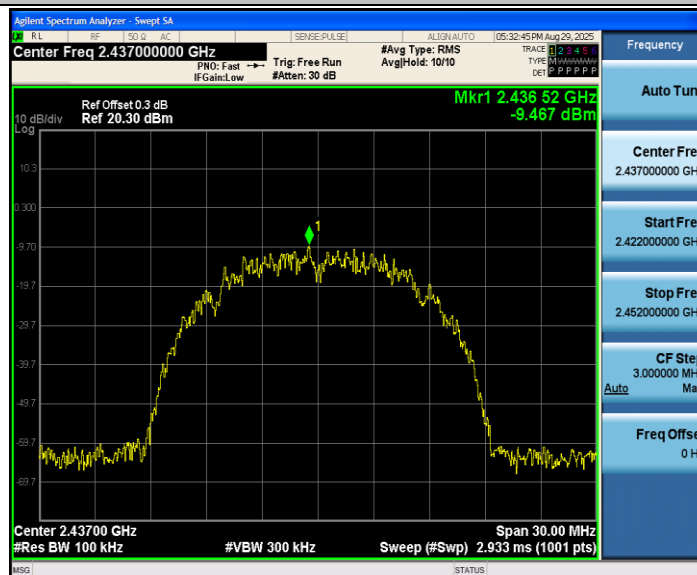
11B_Ant1_2412_30~1000



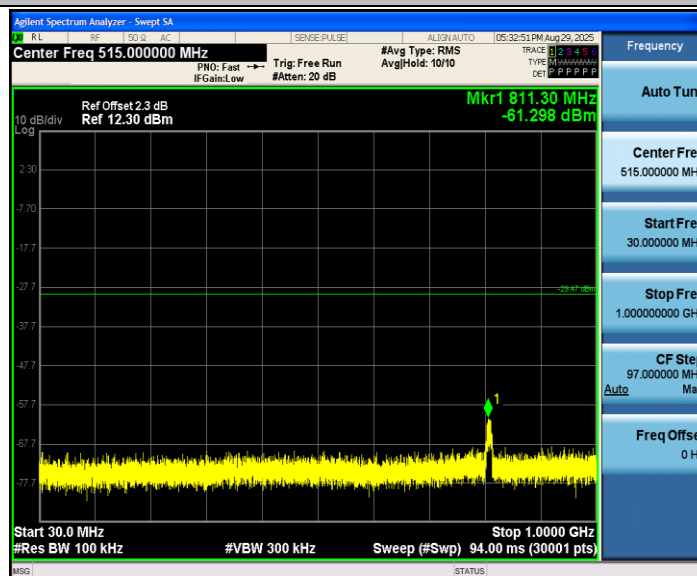
11B_Ant1_2412_1000~26500



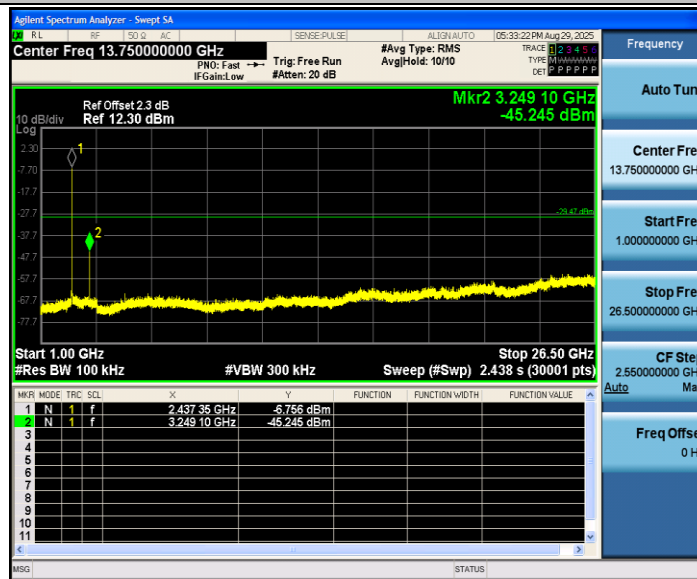
11B_Ant1_2437_0~Reference



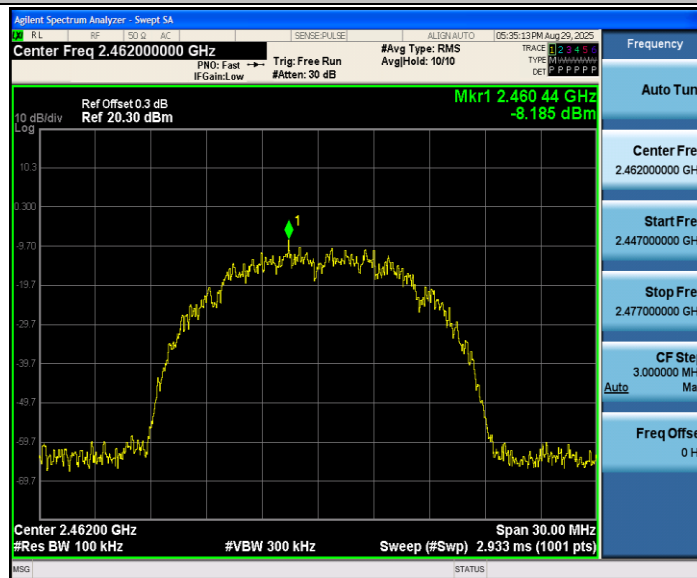
11B_Ant1_2437_30~1000



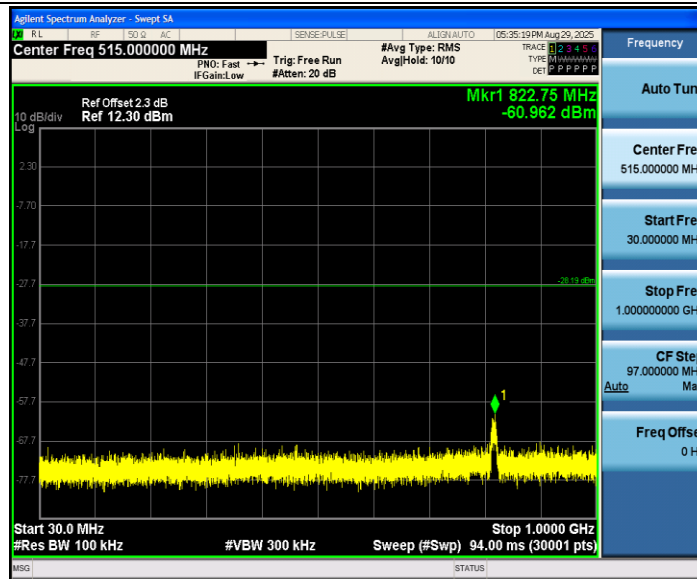
11B_Ant1_2437_1000~26500



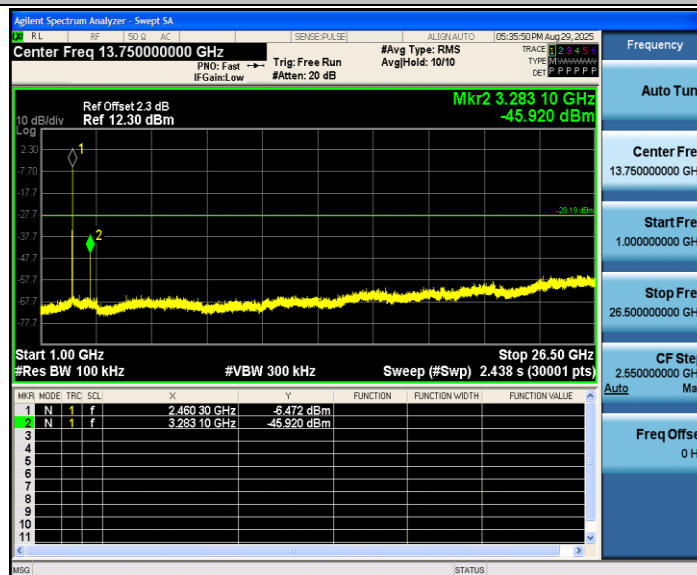
11B_Ant1_2462_0~Reference



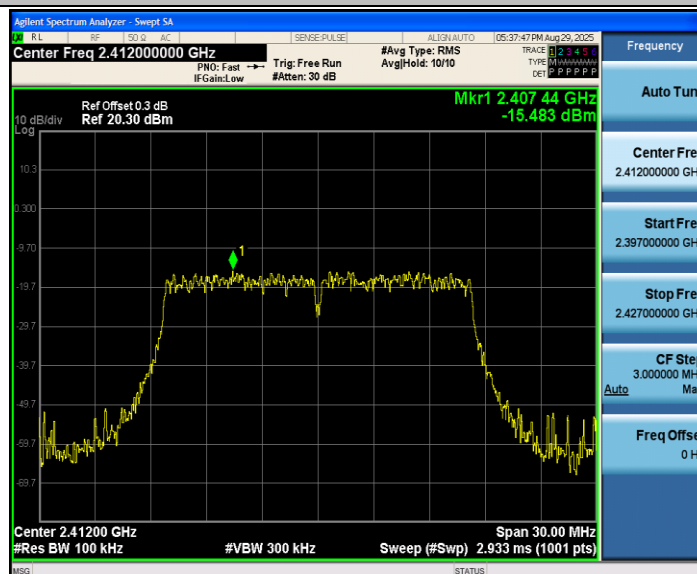
11B_Ant1_2462_30~1000



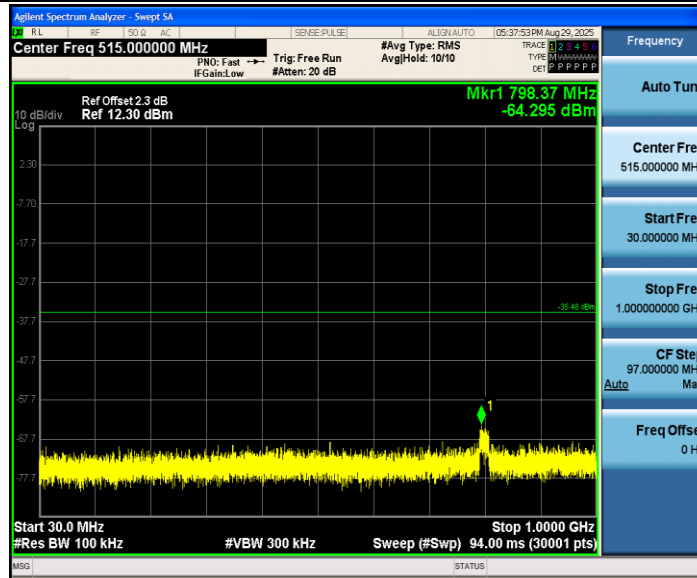
11B_Ant1_2462_1000~26500



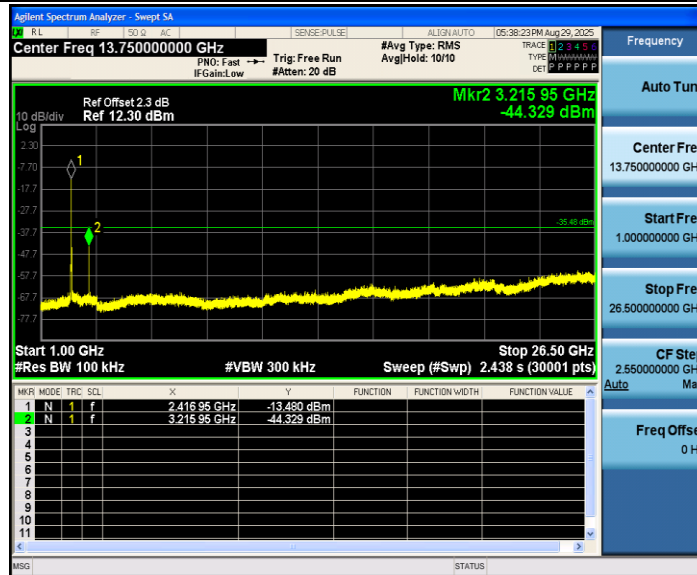
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



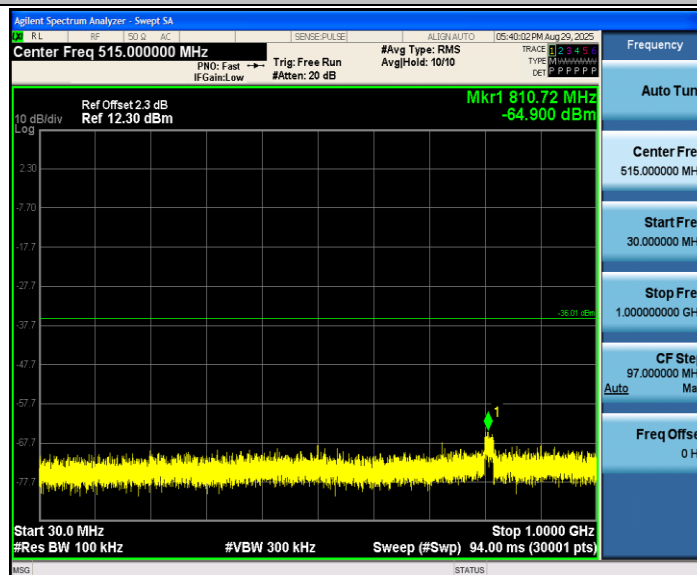
11G_Ant1_2412_1000~26500



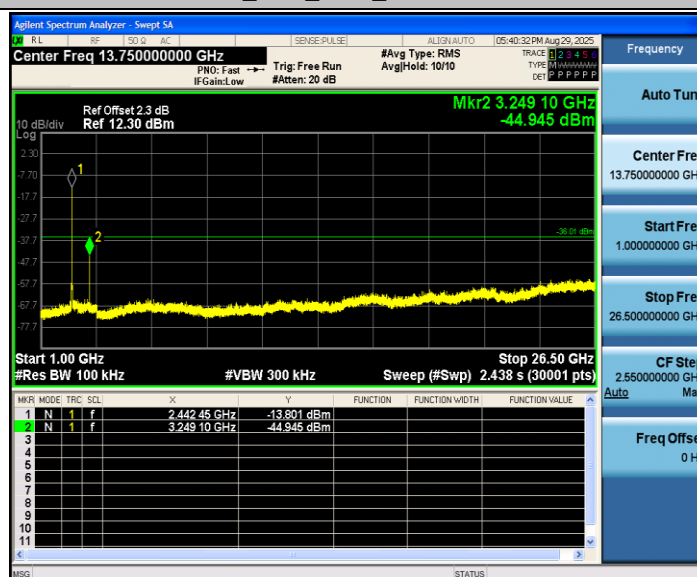
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



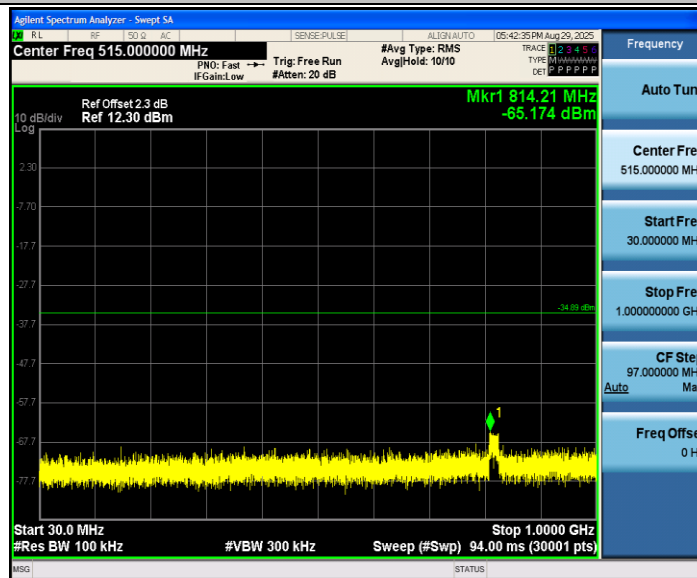
11G_Ant1_2437_1000~26500



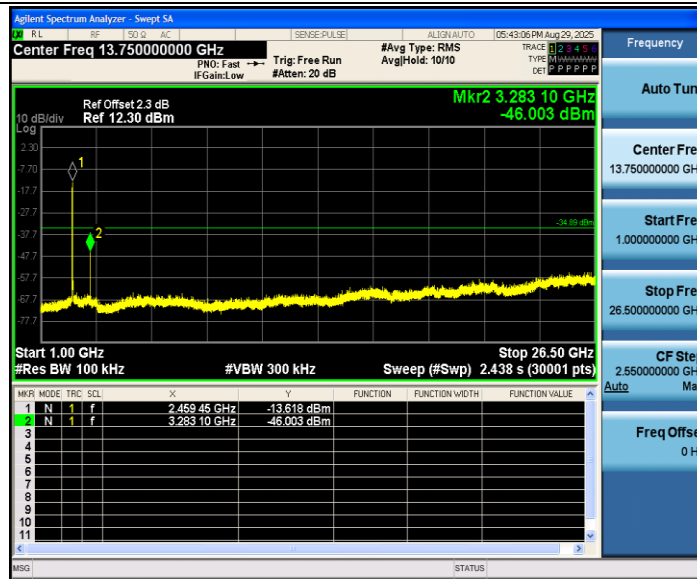
11G_Ant1_2462_0~Reference



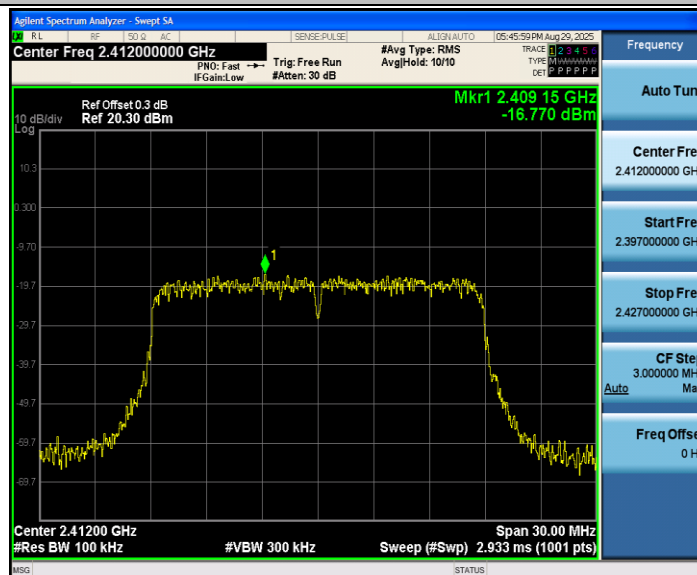
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

