

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A9V8-CORE30

Company : CZUR TECH CO., LTD

EUT : Smart Work Station

Model Number : StarryHub Core30

Report No. : CTA25111704303

Reviewed By : Eric Wang

Appendix RF Test Data for 2.4GWIFI Module 1

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	16.120	2404.000	2420.120	0.5	PASS
		2437	16.080	2429.000	2445.080	0.5	PASS
		2462	15.760	2454.280	2470.040	0.5	PASS
11N20SISO	Ant1	2412	17.200	2403.400	2420.600	0.5	PASS
		2437	17.240	2428.360	2445.600	0.5	PASS
		2462	17.280	2453.440	2470.720	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.240	2439.760	0.5	PASS
		2437	35.520	2419.320	2454.840	0.5	PASS
		2452	35.520	2434.320	2469.840	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



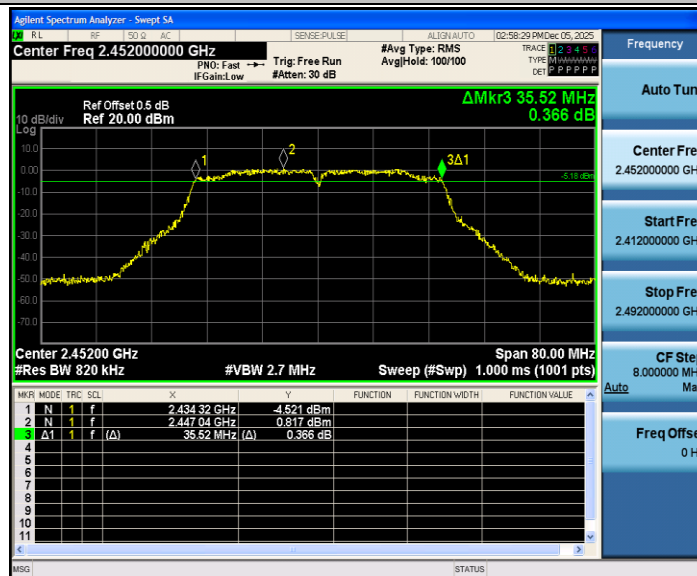
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



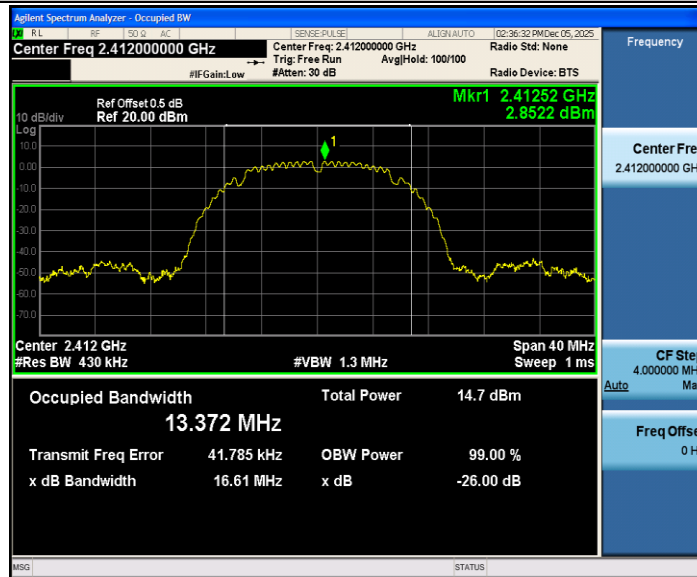
Appendix B: Occupied Channel Bandwidth

Test Result

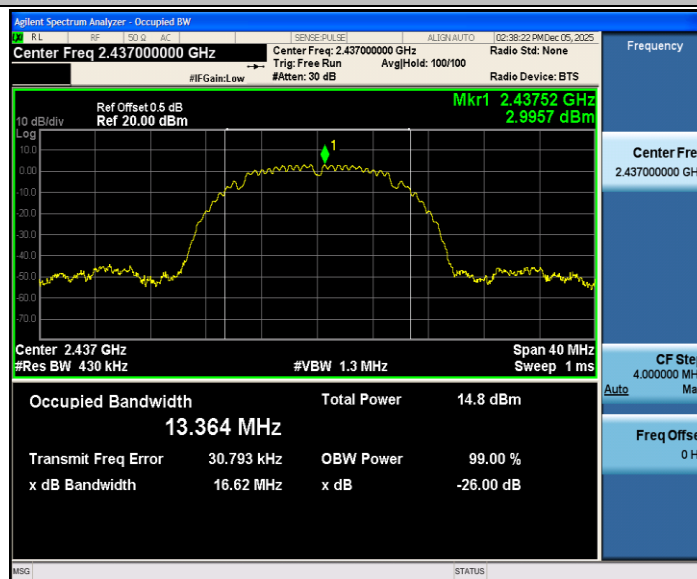
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.372	2405.3558	2418.7278	---	---
		2437	13.364	2430.3488	2443.7128	---	---
		2462	13.383	2455.3219	2468.7049	---	---
11G	Ant1	2412	16.806	2403.6867	2420.4927	---	---
		2437	16.650	2428.7378	2445.3878	---	---
		2462	16.710	2453.7006	2470.4106	---	---
11N20SISO	Ant1	2412	17.813	2403.1403	2420.9533	---	---
		2437	17.811	2428.1083	2445.9193	---	---
		2462	17.795	2453.0901	2470.8851	---	---
11N40SISO	Ant1	2422	36.063	2404.0568	2440.1198	---	---
		2437	36.081	2419.0290	2455.1100	---	---
		2452	36.008	2434.0875	2470.0955	---	---

Test Graphs

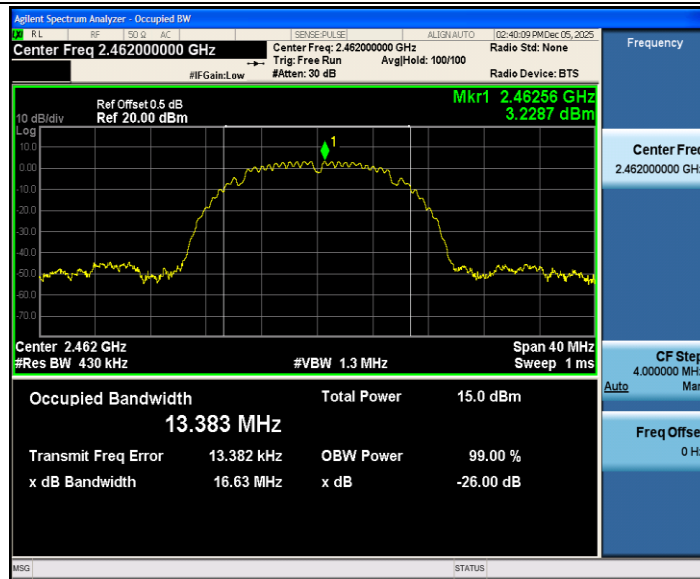
11B_Ant1_2412



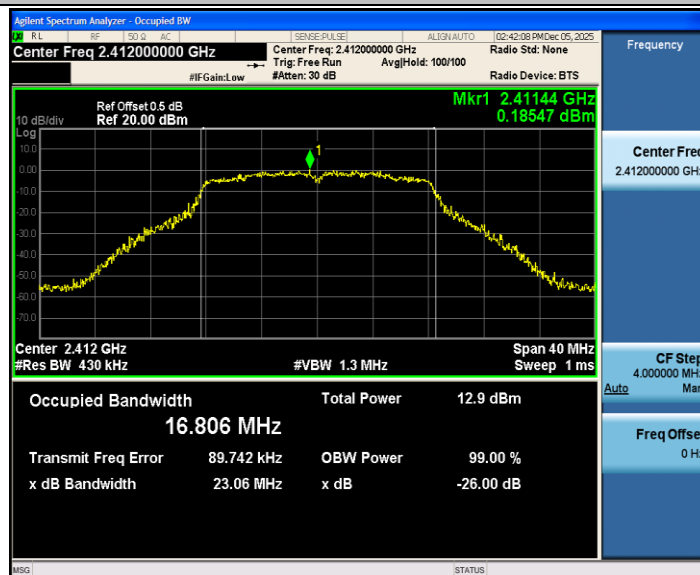
11B_Ant1_2437



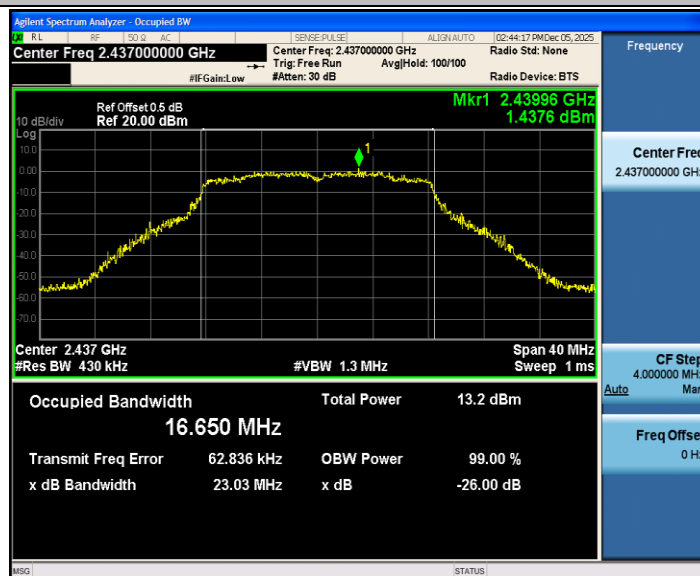
11B_Ant1_2462



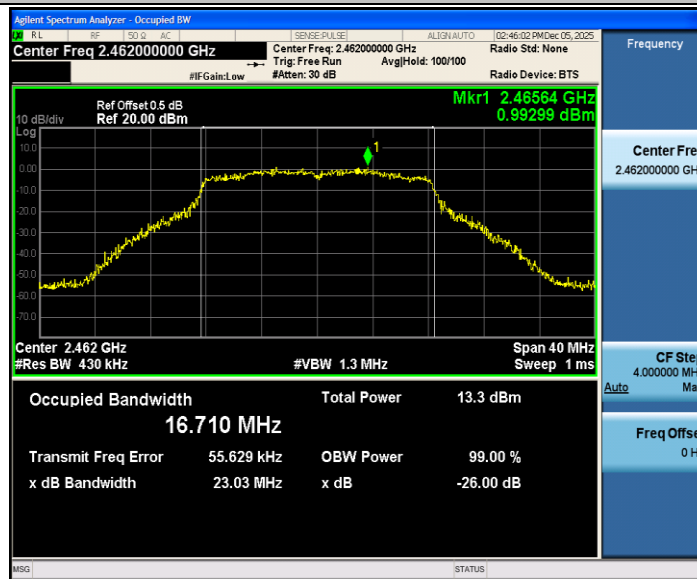
11G_Ant1_2412



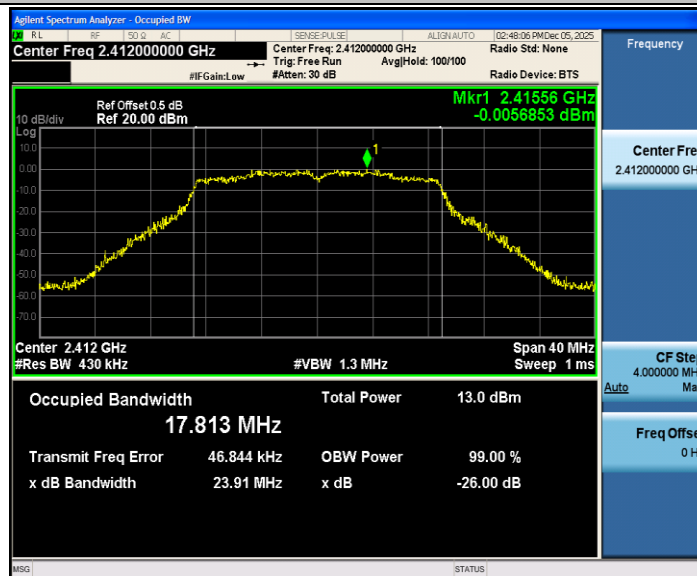
11G_Ant1_2437



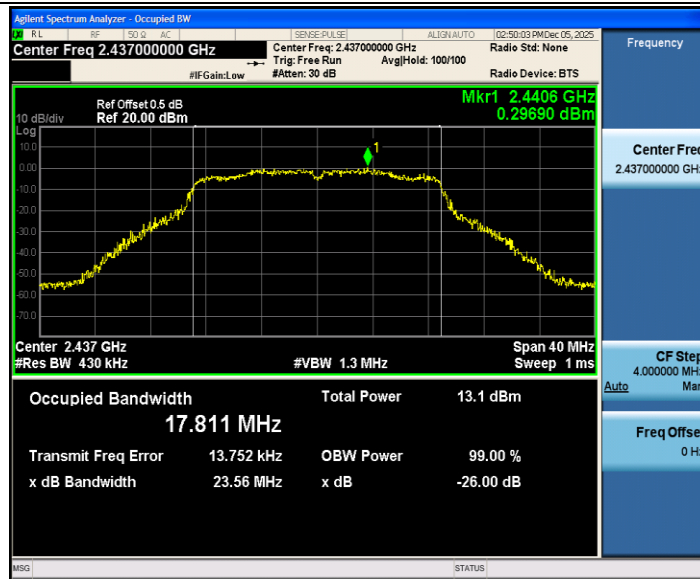
11G_Ant1_2462



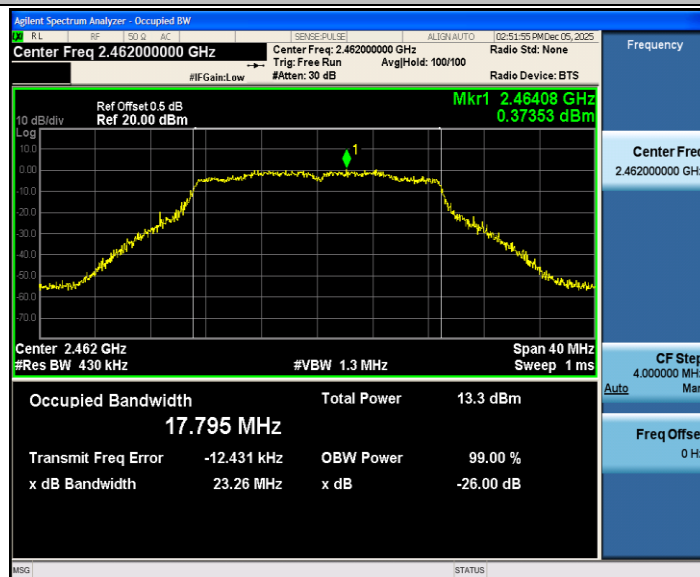
11N20SISO_Ant1_2412



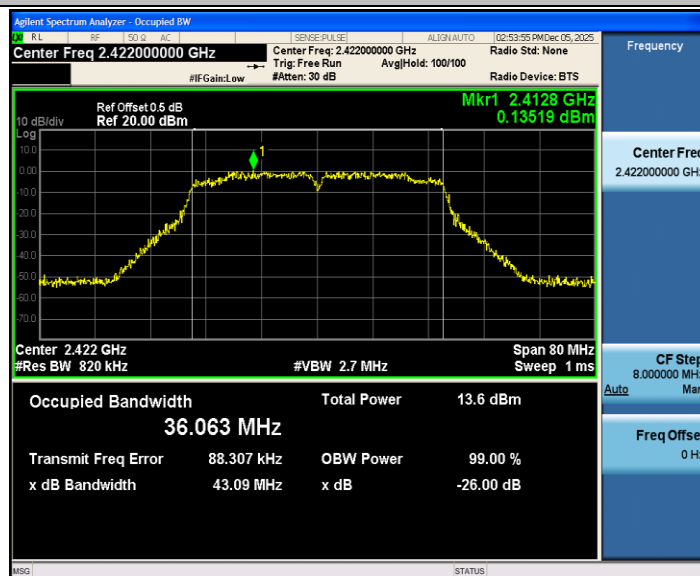
11N20SISO_Ant1_2437



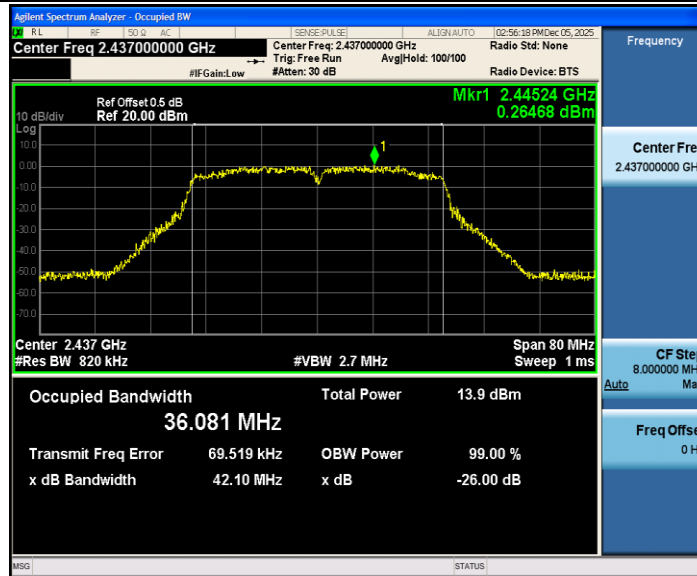
11N20SISO_Ant1_2462



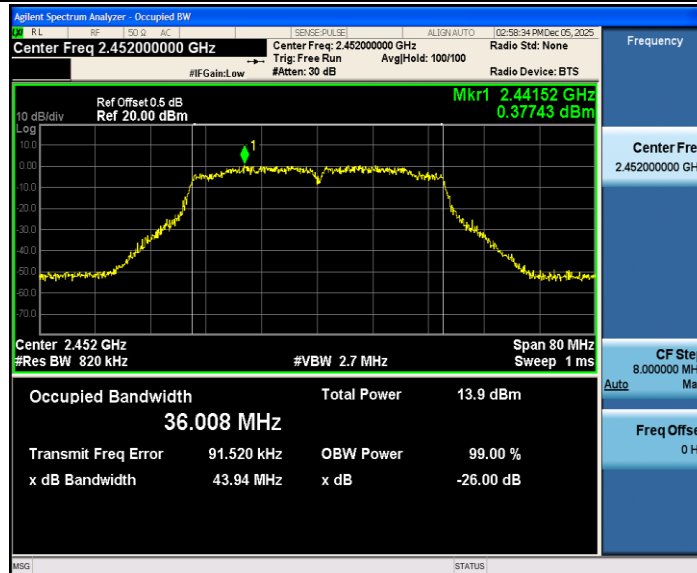
11N40SISO_Ant1_2422



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	14.46	≤30.00	PASS
		2437	14.67	≤30.00	PASS
		2462	14.85	≤30.00	PASS
11G	Ant1	2412	13.53	≤30.00	PASS
		2437	13.79	≤30.00	PASS
		2462	14.08	≤30.00	PASS
11N20SISO	Ant1	2412	13.59	≤30.00	PASS
		2437	13.66	≤30.00	PASS
		2462	13.89	≤30.00	PASS
11N40SISO	Ant1	2422	13.83	≤30.00	PASS
		2437	13.96	≤30.00	PASS
		2452	14.10	≤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	-11.25	≤8.00	PASS
		2437	-11.15	≤8.00	PASS
		2462	-10.94	≤8.00	PASS
11G	Ant1	2412	-17.45	≤8.00	PASS
		2437	-16.26	≤8.00	PASS
		2462	-17.29	≤8.00	PASS
11N20SISO	Ant1	2412	-17.83	≤8.00	PASS
		2437	-16.94	≤8.00	PASS
		2462	-16.18	≤8.00	PASS
11N40SISO	Ant1	2422	-20.06	≤8.00	PASS
		2437	-18.81	≤8.00	PASS
		2452	-19.54	≤8.00	PASS

Test Graphs

11B_Ant1_2412



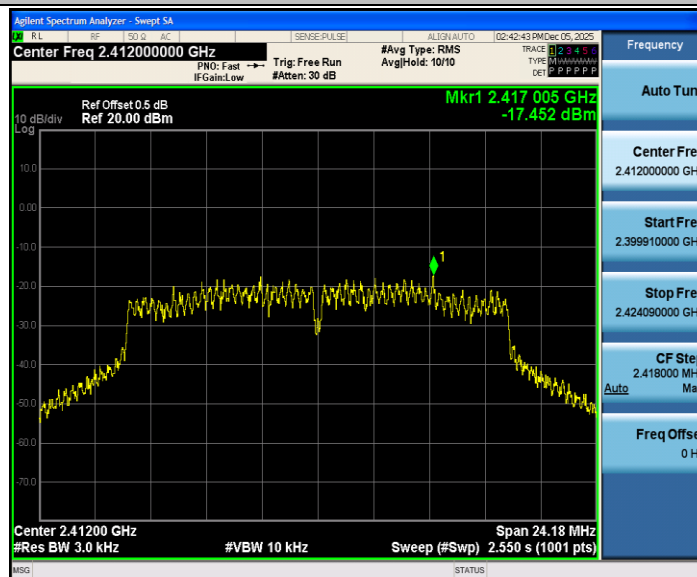
11B_Ant1_2437



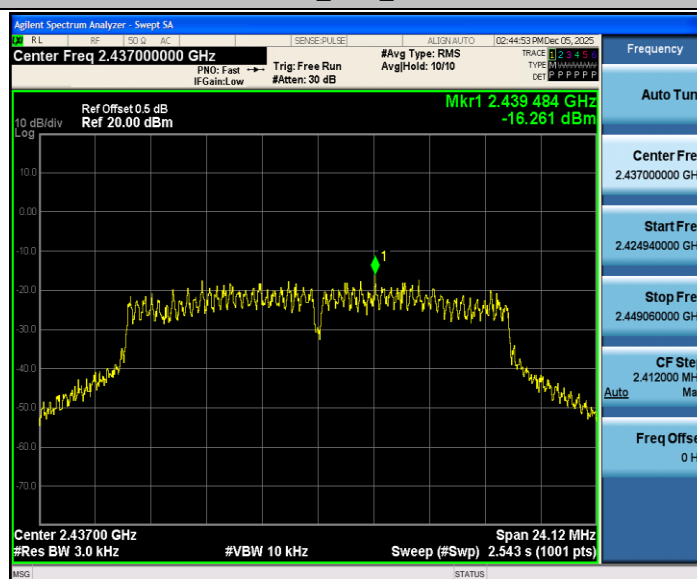
11B_Ant1_2462



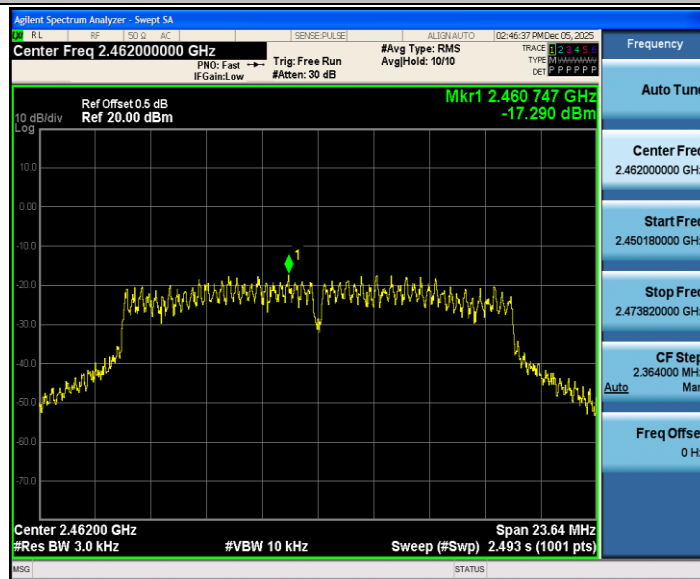
11G_Ant1_2412



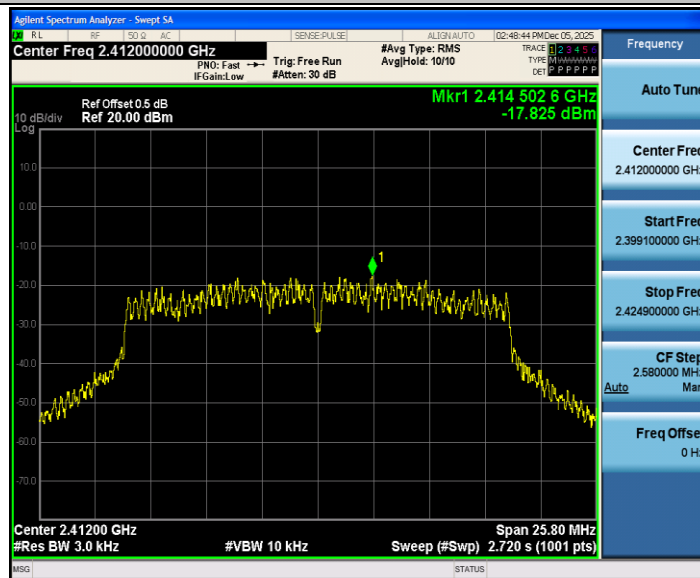
11G_Ant1_2437



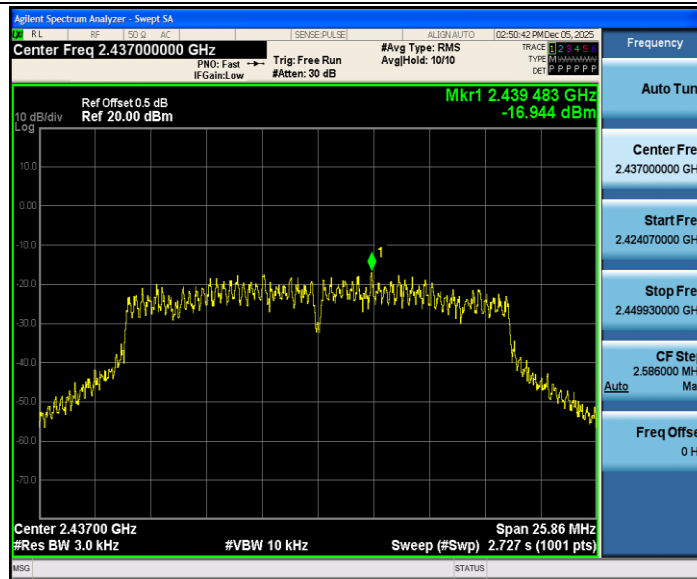
11G_Ant1_2462



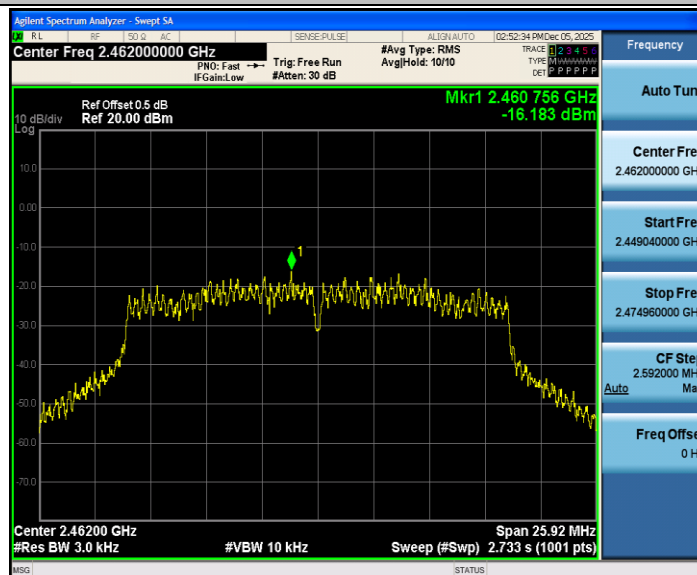
11N20SISO_Ant1_2412



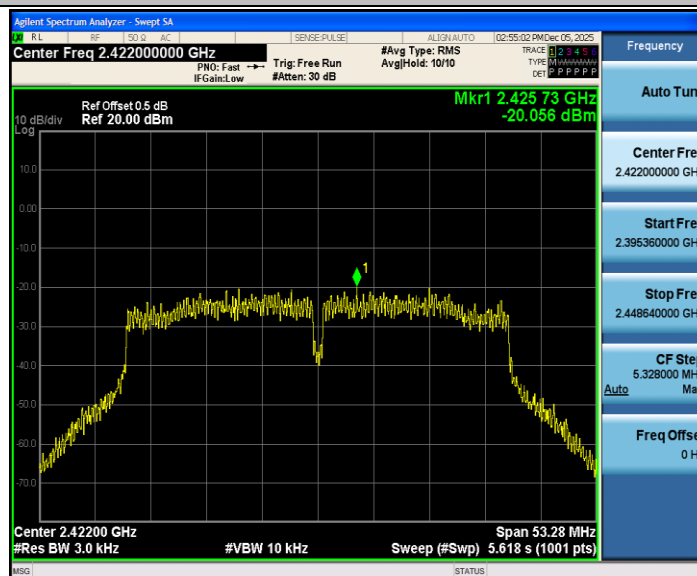
11N20SISO_Ant1_2437



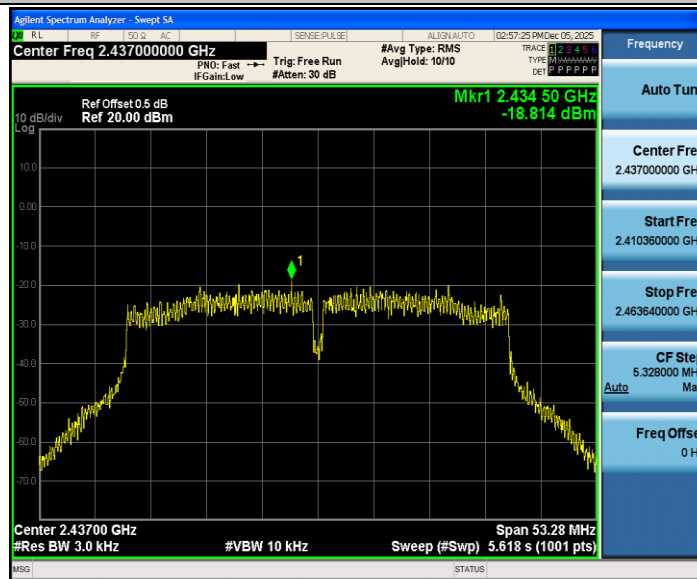
11N20SISO_Ant1_2462



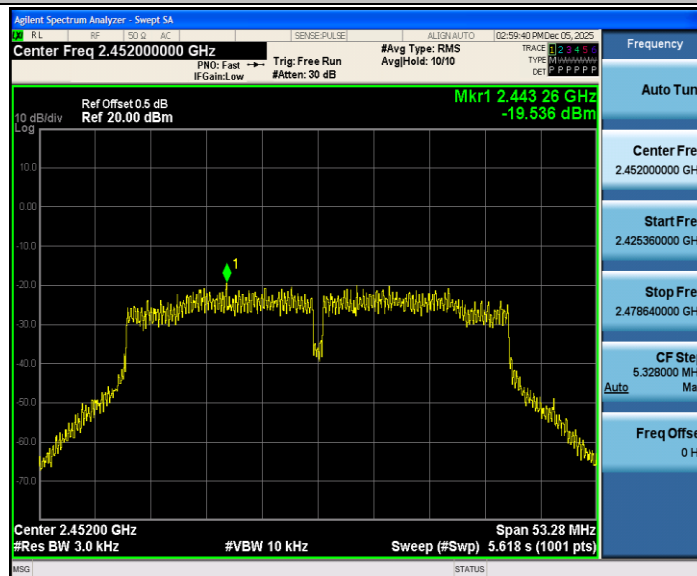
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



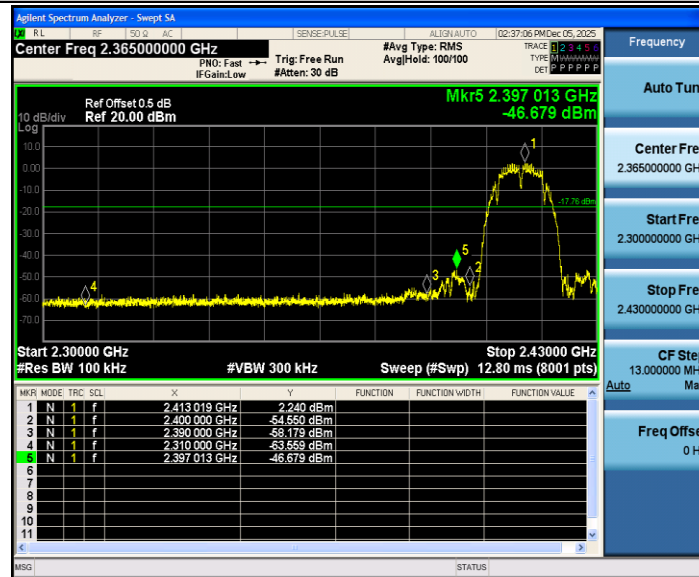
Appendix E: Band edge measurements

Test Result

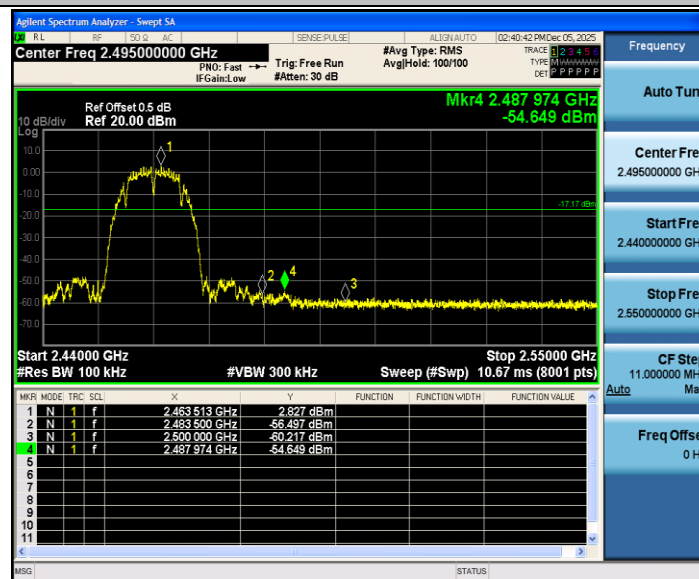
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.24	-46.68	≤-17.76	PASS
		High	2462	2.83	-54.65	≤-17.17	PASS
11G	Ant1	Low	2412	-2.09	-32.82	≤-22.09	PASS
		High	2462	-1.66	-57.48	≤-21.66	PASS
11N20SISO	Ant1	Low	2412	-2.06	-33.82	≤-22.06	PASS
		High	2462	-1.69	-57.73	≤-21.69	PASS
11N40SISO	Ant1	Low	2422	-5.34	-33.29	≤-25.34	PASS
		High	2452	-5.04	-56.13	≤-25.04	PASS

Test Graphs

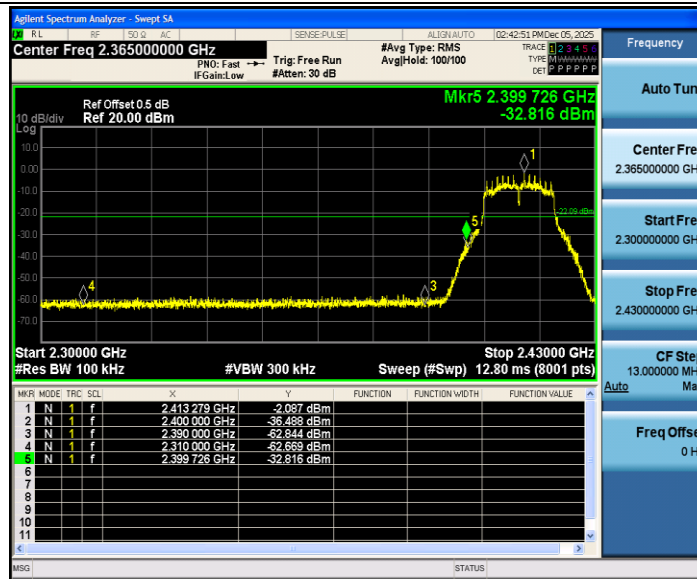
11B_Ant1_Low_2412



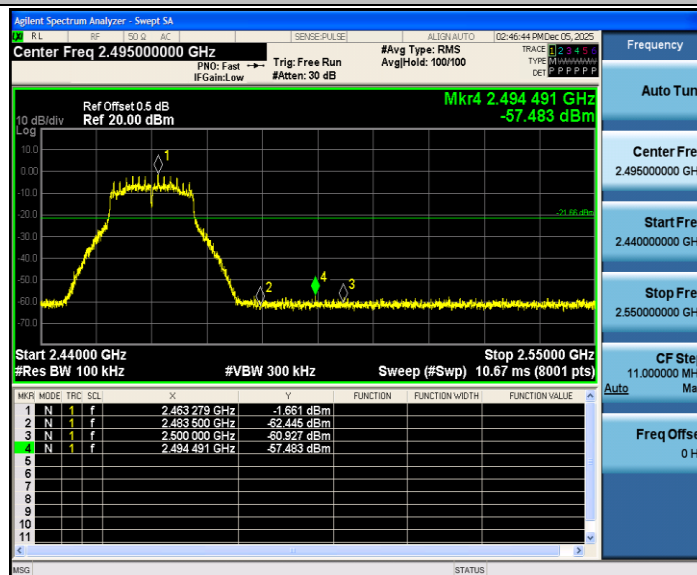
11B_Ant1_High_2462



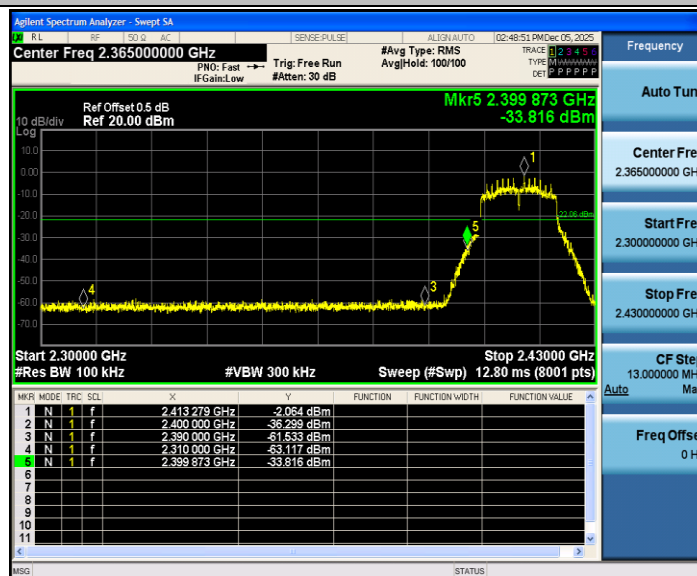
11G_Ant1_Low_2412



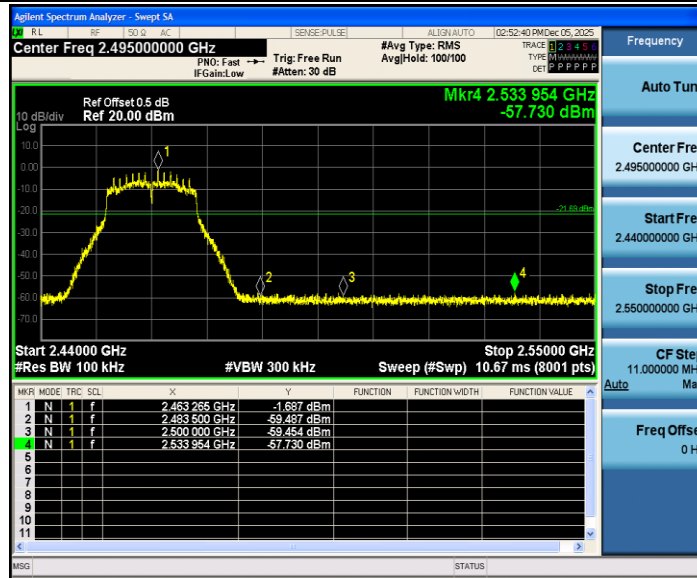
11G_Ant1_High_2462



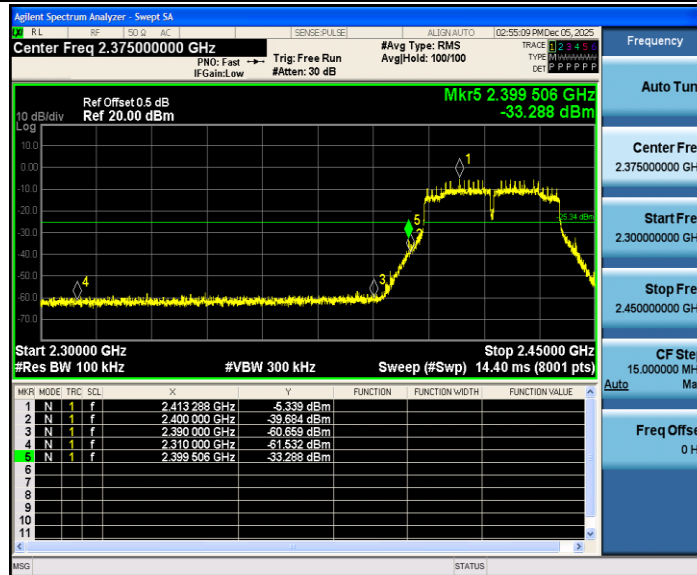
11N20SISO_Ant1_Low_2412



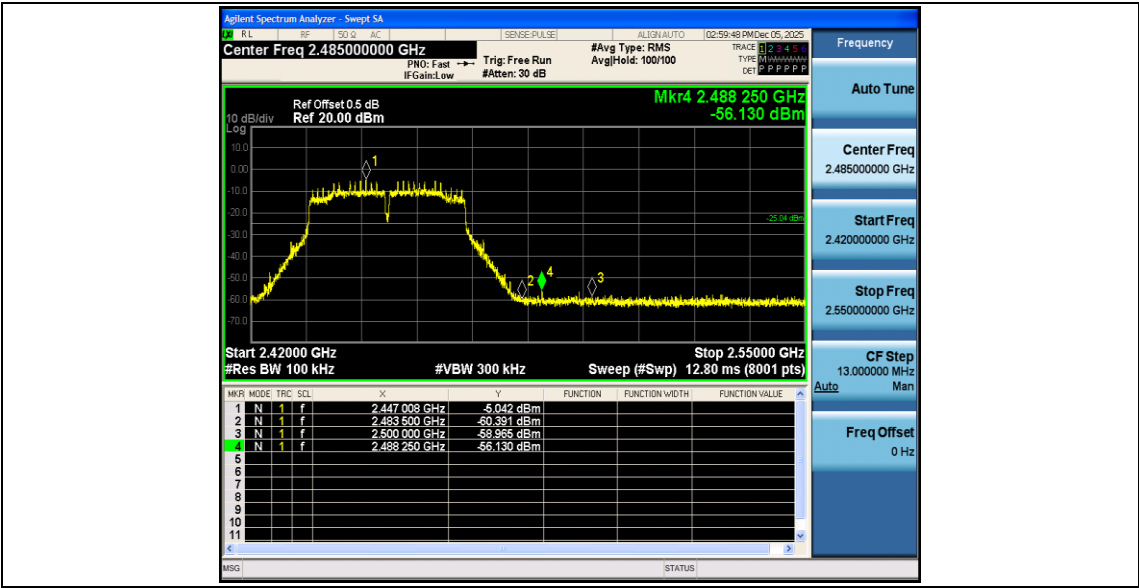
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

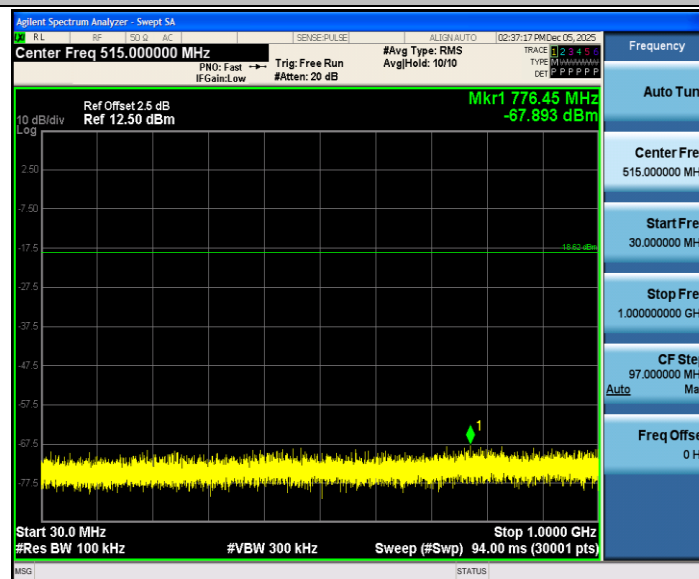
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.38	1.38	---	PASS
			30~1000	1.38	-67.89	≤-18.62	PASS
			1000~26500	1.38	-54.59	≤-18.62	PASS
		2437	Reference	2.67	2.67	---	PASS
			30~1000	2.67	-67.58	≤-17.33	PASS
			1000~26500	2.67	-54.83	≤-17.33	PASS
		2462	Reference	2.31	2.31	---	PASS
			30~1000	2.31	-67.81	≤-17.69	PASS
			1000~26500	2.31	-54.69	≤-17.69	PASS
11G	Ant1	2412	Reference	-3.42	-3.42	---	PASS
			30~1000	-3.42	-67.81	≤-23.42	PASS
			1000~26500	-3.42	-55.24	≤-23.42	PASS
		2437	Reference	-2.42	-2.42	---	PASS
			30~1000	-2.42	-67.13	≤-22.42	PASS
			1000~26500	-2.42	-54.85	≤-22.42	PASS
		2462	Reference	-2.70	-2.70	---	PASS
			30~1000	-2.70	-67.52	≤-22.7	PASS
			1000~26500	-2.70	-55.3	≤-22.7	PASS
11N20SISO	Ant1	2412	Reference	-2.70	-2.70	---	PASS
			30~1000	-2.70	-68.12	≤-22.7	PASS
			1000~26500	-2.70	-54.76	≤-22.7	PASS
		2437	Reference	-2.15	-2.15	---	PASS
			30~1000	-2.15	-68.29	≤-22.15	PASS
			1000~26500	-2.15	-54.59	≤-22.15	PASS
		2462	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-67.05	≤-21.66	PASS
			1000~26500	-1.66	-55.25	≤-21.66	PASS
11N40SISO	Ant1	2422	Reference	-6.05	-6.05	---	PASS
			30~1000	-6.05	-68.08	≤-26.05	PASS
			1000~26500	-6.05	-54.96	≤-26.05	PASS
		2437	Reference	-5.32	-5.32	---	PASS
			30~1000	-5.32	-68.35	≤-25.32	PASS
			1000~26500	-5.32	-54.86	≤-25.32	PASS
		2452	Reference	-5.58	-5.58	---	PASS
			30~1000	-5.58	-67.21	≤-25.58	PASS
			1000~26500	-5.58	-54.64	≤-25.58	PASS

Test Graphs

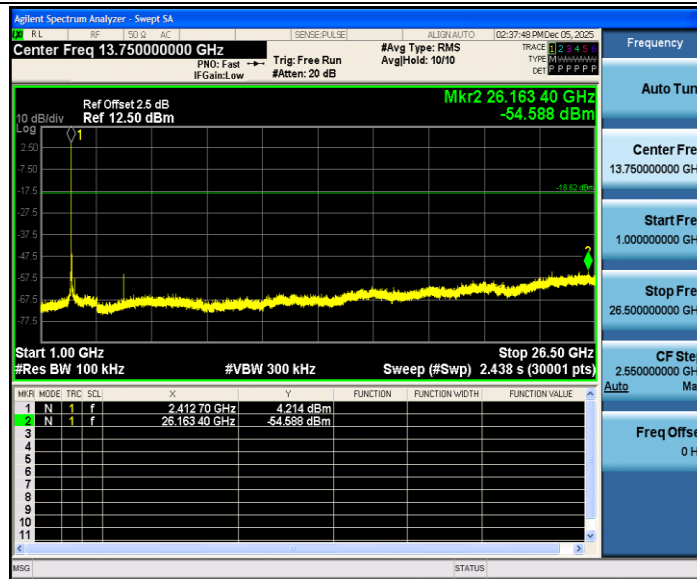
11B_Ant1_2412_0~Reference



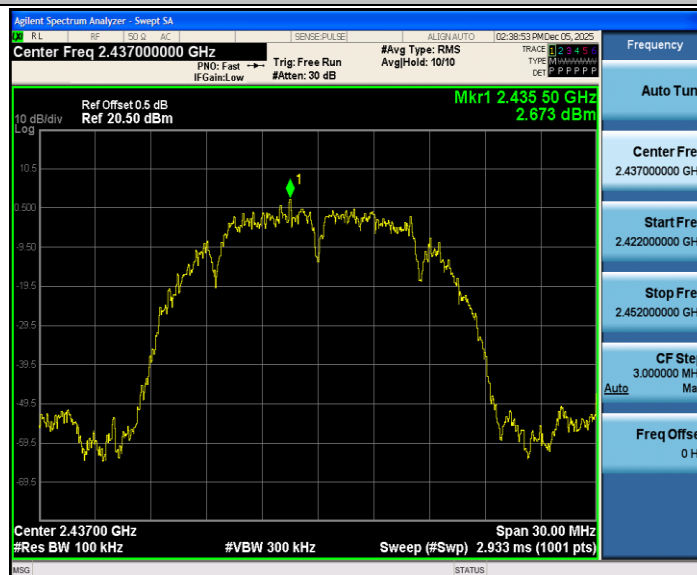
11B_Ant1_2412_30~1000



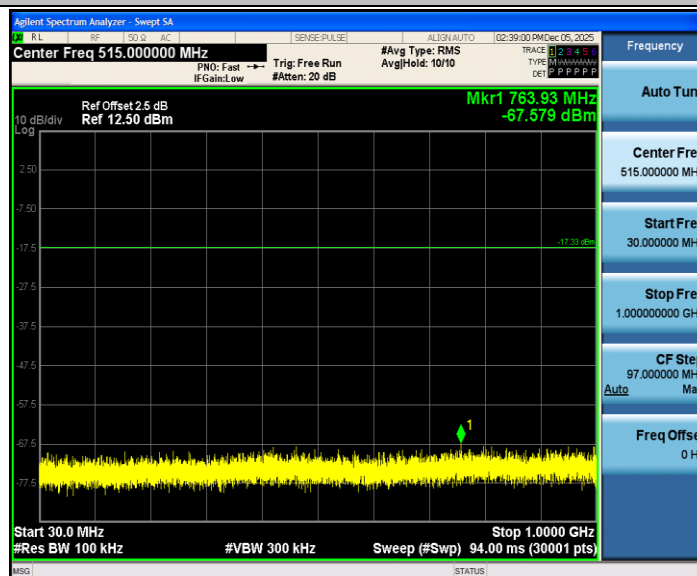
11B_Ant1_2412_1000~26500



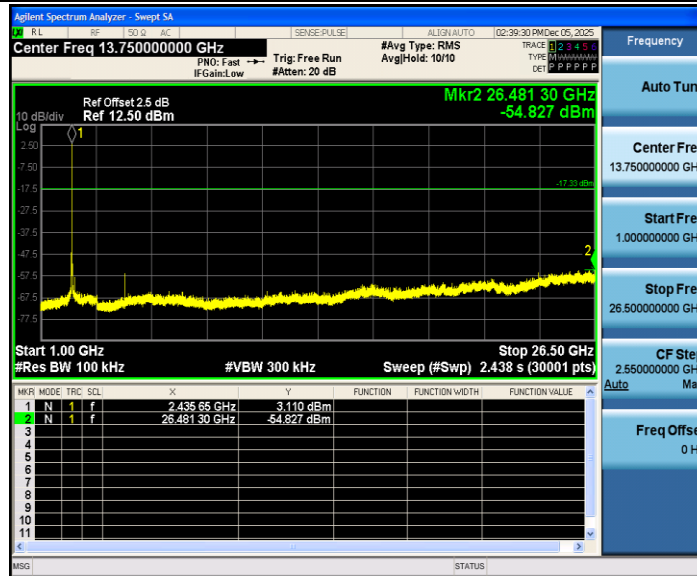
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



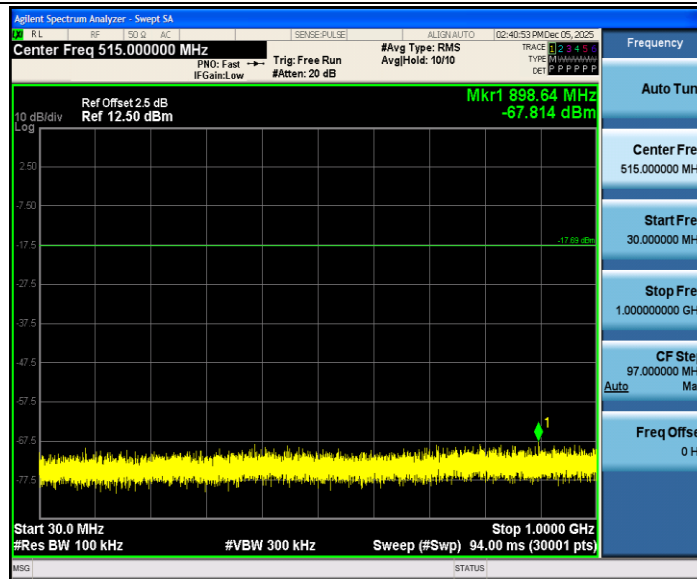
11B_Ant1_2437_1000~26500



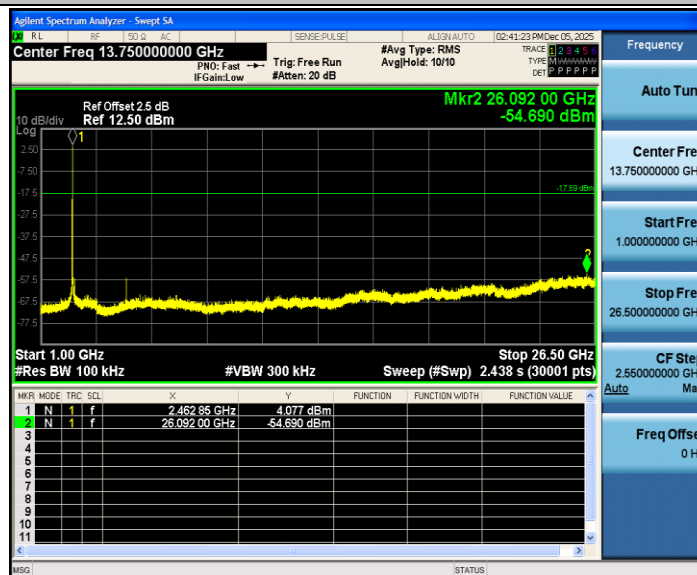
11B_Ant1_2462_0~Reference



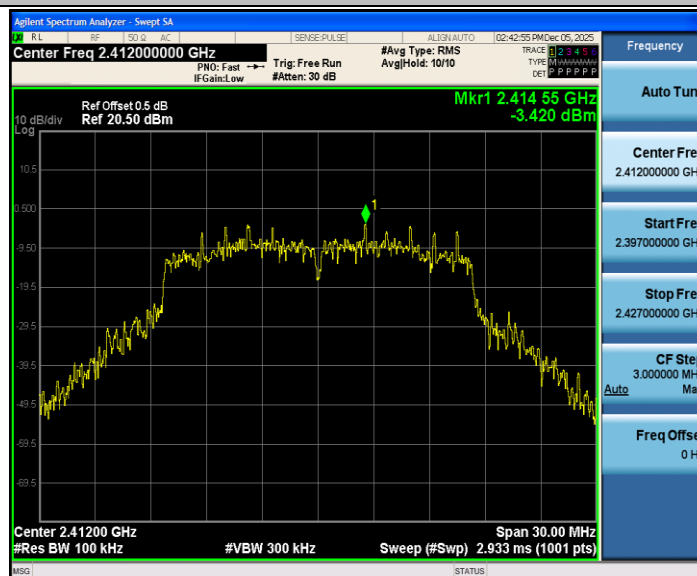
11B_Ant1_2462_30~1000



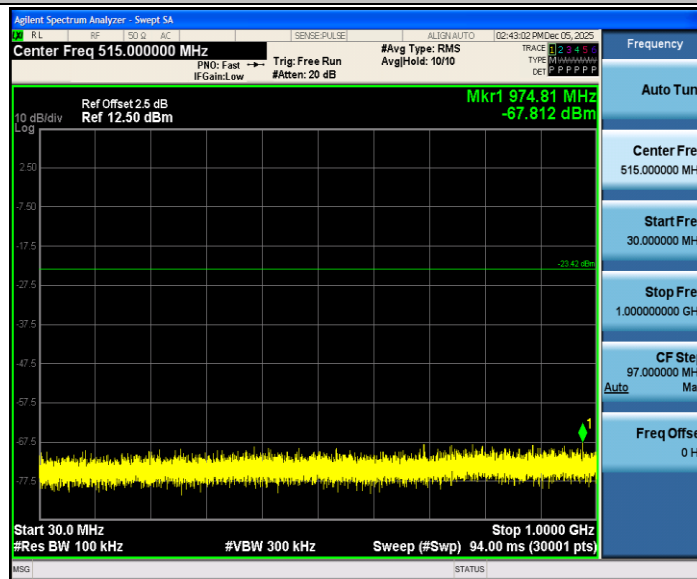
11B_Ant1_2462_1000~26500



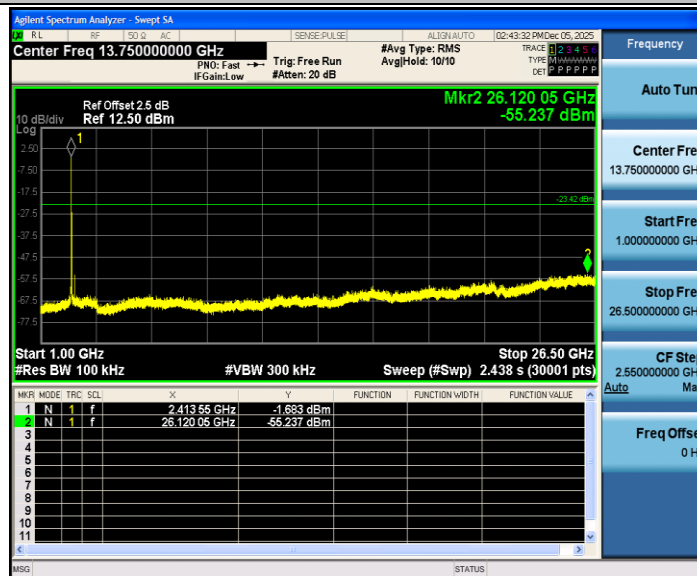
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



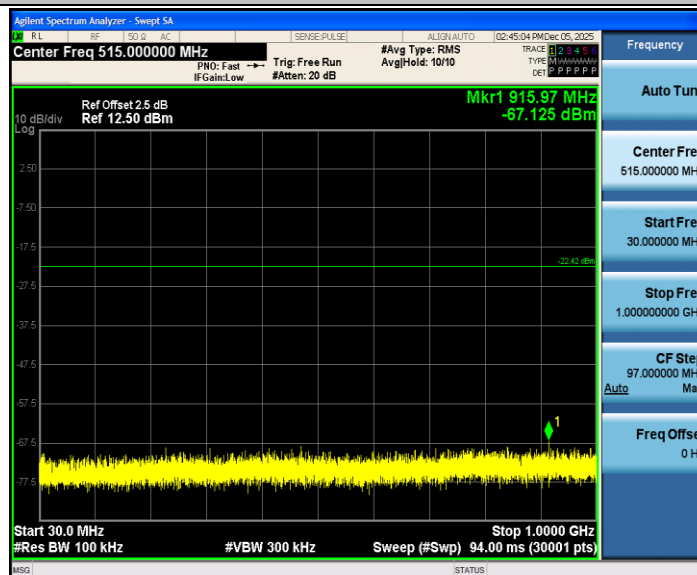
11G_Ant1_2412_1000~26500



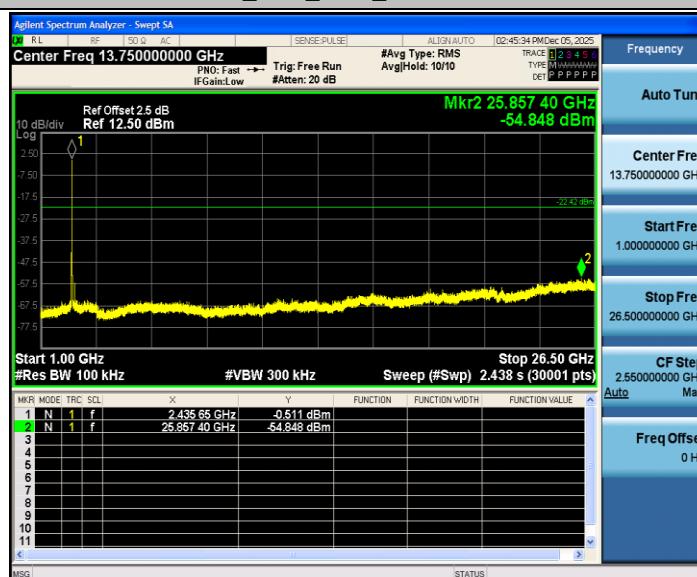
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



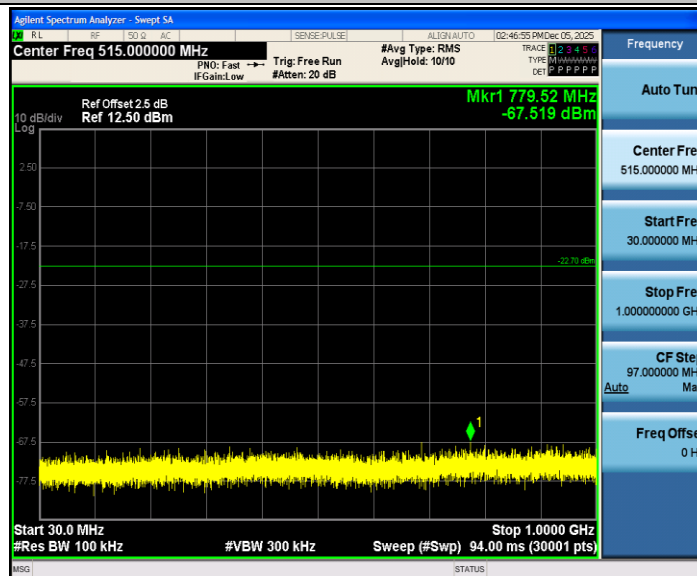
11G_Ant1_2437_1000~26500



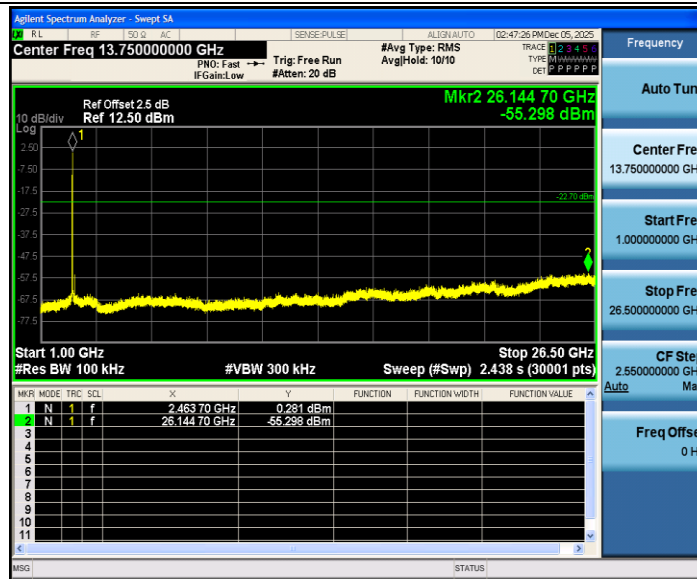
11G_Ant1_2462_0~Reference



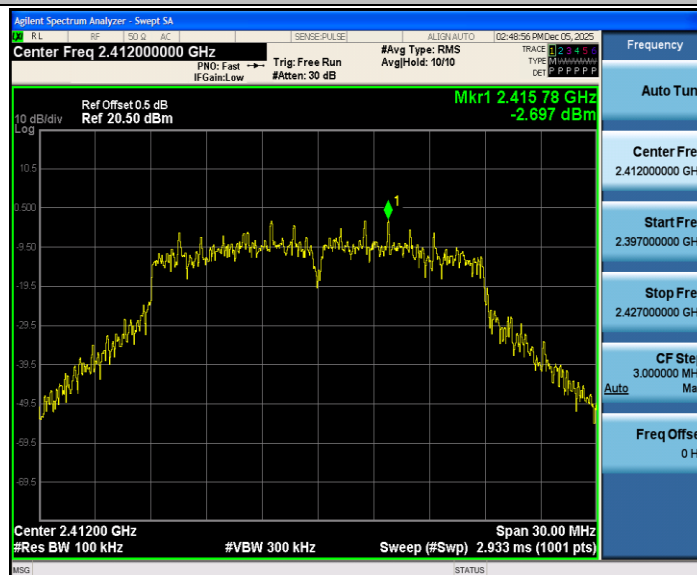
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

