

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2AENNE2N

Company : Shenzhen ImagineVision Technology Limited

EUT : Z CAM E2N Mark II

Model Number : E1531

Report No. : CTA26040100801

Reviewed By : Eric Wang

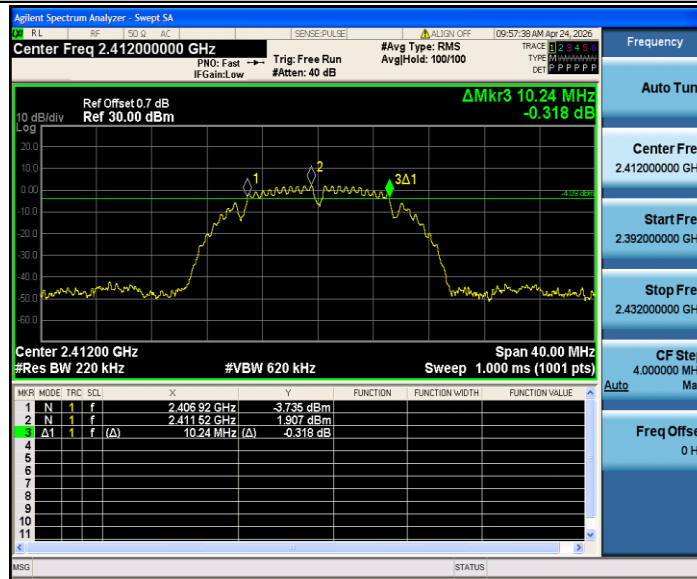
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.720	2404.040	2419.760	0.5	PASS
		2437	15.720	2429.120	2444.840	0.5	PASS
		2462	15.920	2454.120	2470.040	0.5	PASS
11N20SISO	Ant1	2412	15.760	2404.080	2419.840	0.5	PASS
		2437	16.800	2428.640	2445.440	0.5	PASS
		2462	17.160	2453.480	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.560	2440.080	0.5	PASS
		2437	34.960	2419.880	2454.840	0.5	PASS
		2452	35.840	2434.160	2470.000	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



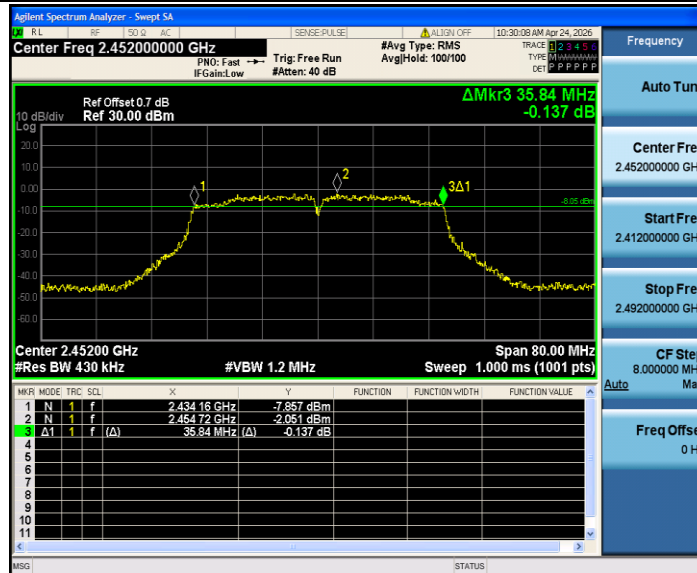
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



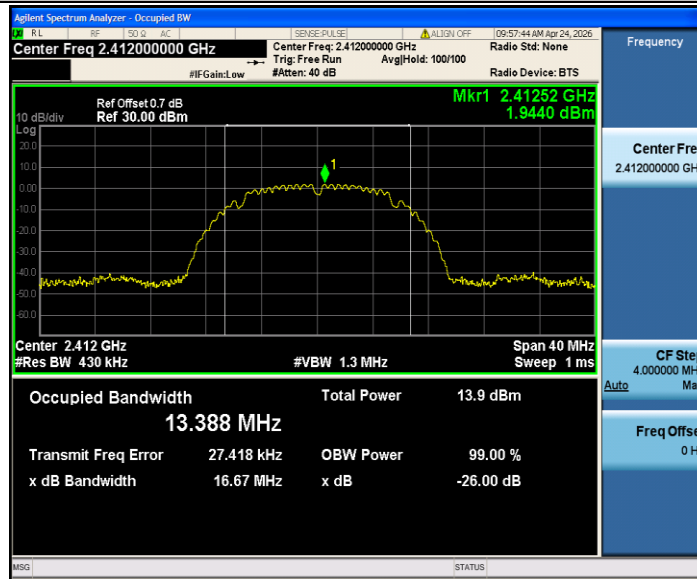
Appendix B: Occupied Channel Bandwidth

Test Result

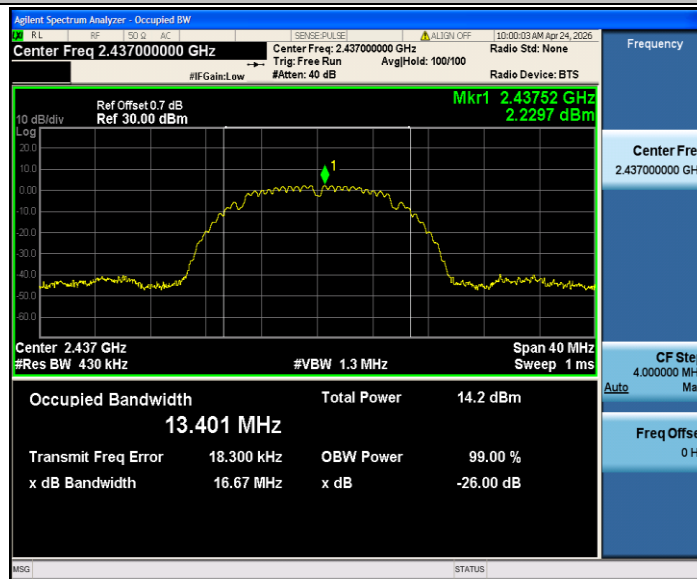
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.388	2405.3334	2418.7214	---	---
		2437	13.401	2430.3178	2443.7188	---	---
		2462	13.415	2455.3047	2468.7197	---	---
11G	Ant1	2412	16.840	2403.6224	2420.4624	---	---
		2437	16.866	2428.6085	2445.4745	---	---
		2462	16.733	2453.6481	2470.3811	---	---
11N20SISO	Ant1	2412	17.923	2403.0483	2420.9713	---	---
		2437	17.885	2428.0870	2445.9720	---	---
		2462	17.955	2453.0097	2470.9647	---	---
11N40SISO	Ant1	2422	35.986	2404.1242	2440.1102	---	---
		2437	35.995	2419.1188	2455.1138	---	---
		2452	36.070	2434.1010	2470.1710	---	---

Test Graphs

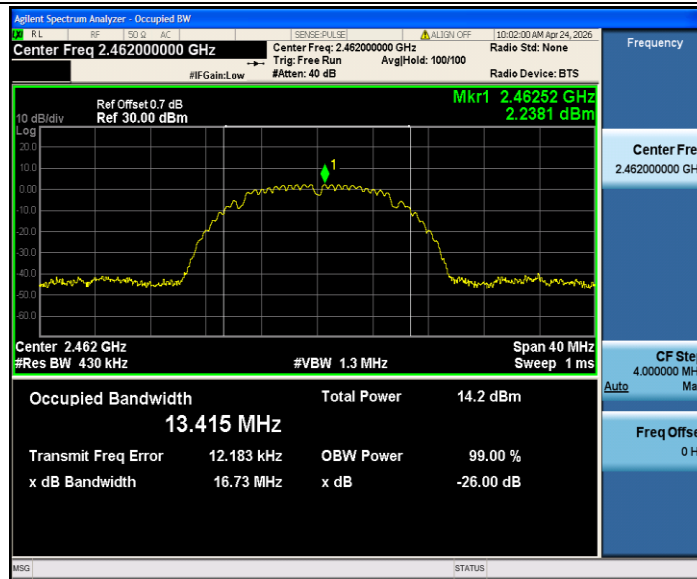
11B_Ant1_2412



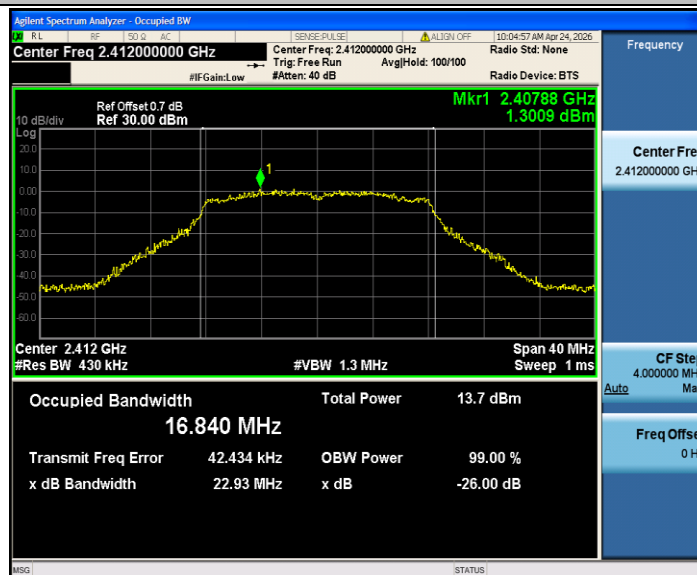
11B_Ant1_2437



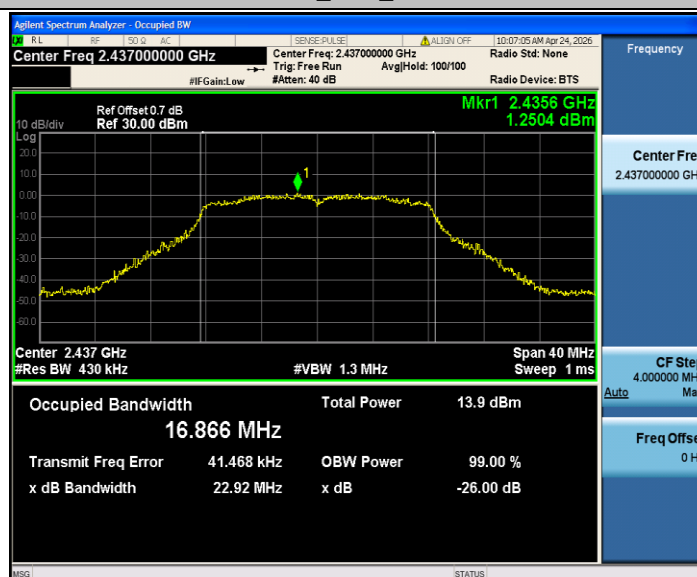
11B_Ant1_2462



11G_Ant1_2412



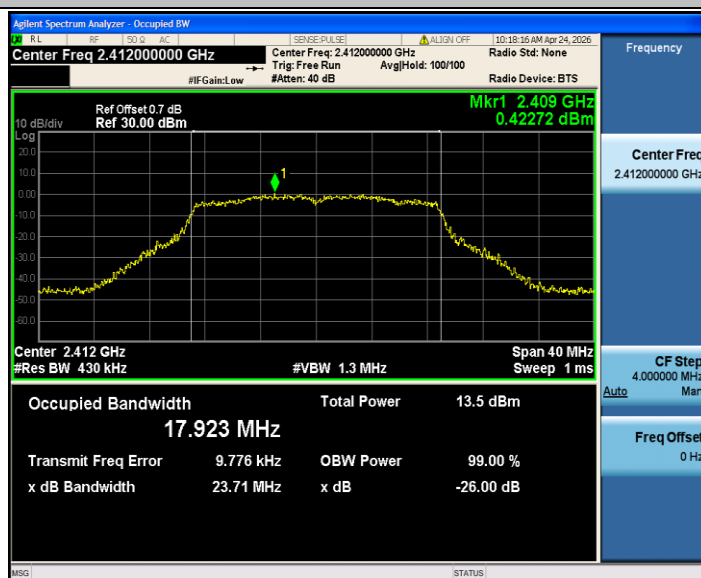
11G_Ant1_2437



11G_Ant1_2462



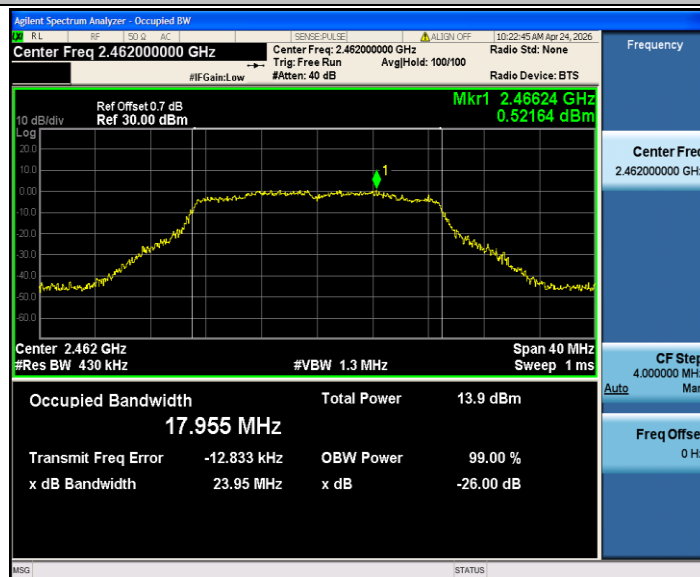
11N20SISO_Ant1_2412



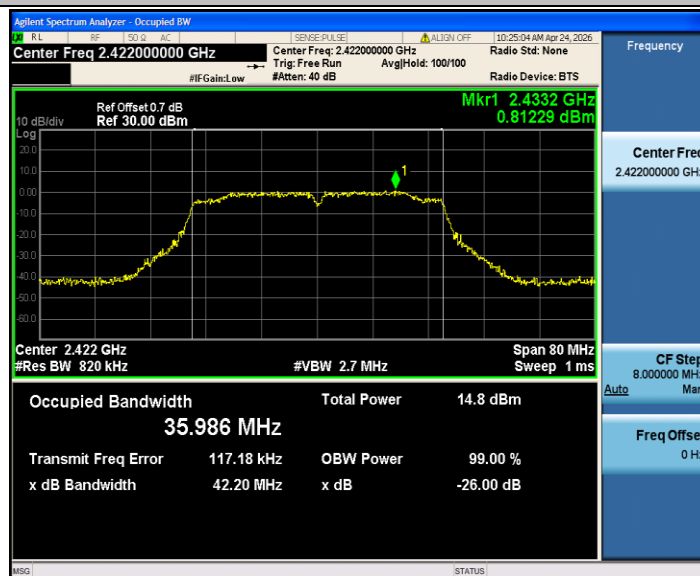
11N20SISO_Ant1_2437



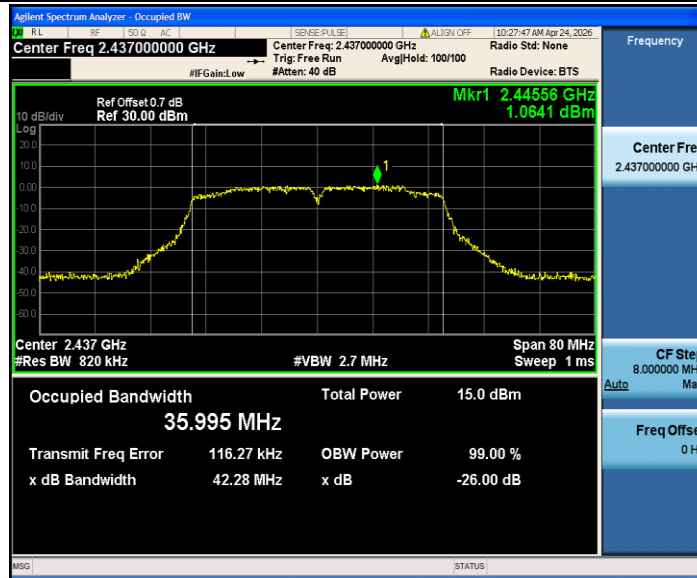
11N20SISO_Ant1_2462



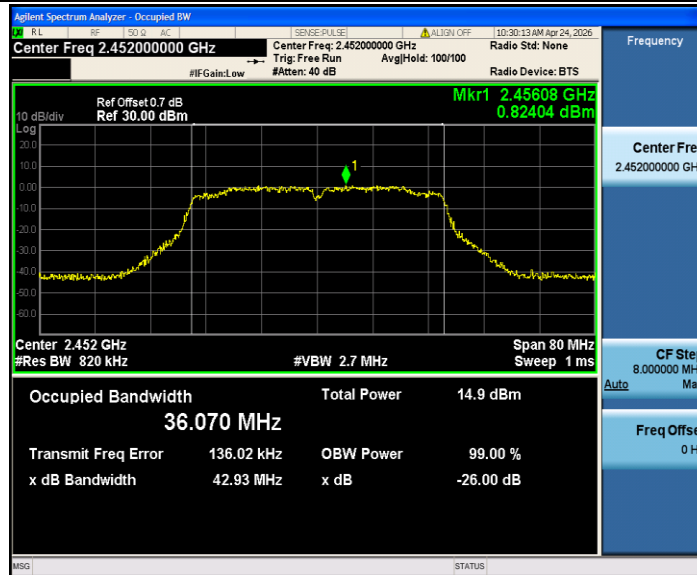
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.74	≤30.00	PASS
		2437	13.90	≤30.00	PASS
		2462	13.91	≤30.00	PASS
11G	Ant1	2412	14.60	≤30.00	PASS
		2437	14.79	≤30.00	PASS
		2462	14.98	≤30.00	PASS
11N20SISO	Ant1	2412	14.28	≤30.00	PASS
		2437	14.64	≤30.00	PASS
		2462	14.81	≤30.00	PASS
11N40SISO	Ant1	2422	14.91	≤30.00	PASS
		2437	15.14	≤30.00	PASS
		2452	15.07	≤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	-11.63	≤8.00	PASS
		2437	-12.26	≤8.00	PASS
		2462	-11.67	≤8.00	PASS
11G	Ant1	2412	-17.20	≤8.00	PASS
		2437	-17.03	≤8.00	PASS
		2462	-17.28	≤8.00	PASS
11N20SISO	Ant1	2412	-17.55	≤8.00	PASS
		2437	-17.01	≤8.00	PASS
		2462	-16.74	≤8.00	PASS
11N40SISO	Ant1	2422	-19.49	≤8.00	PASS
		2437	-18.62	≤8.00	PASS
		2452	-19.79	≤8.00	PASS

Test Graphs

11B_Ant1_2412



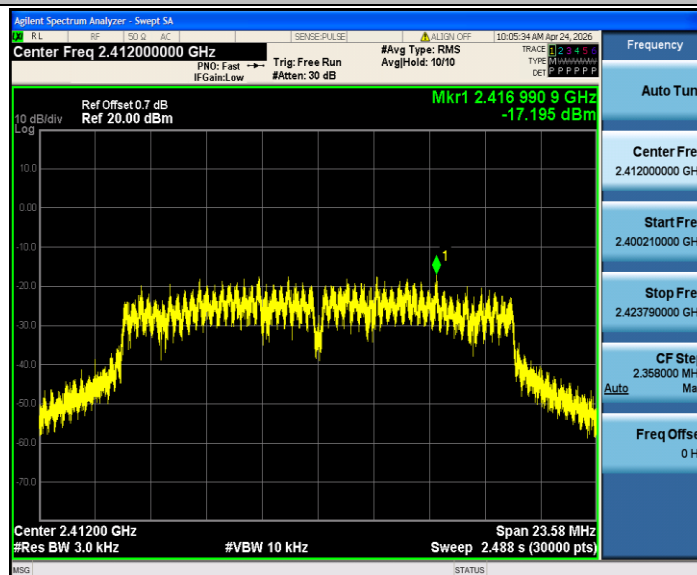
11B_Ant1_2437



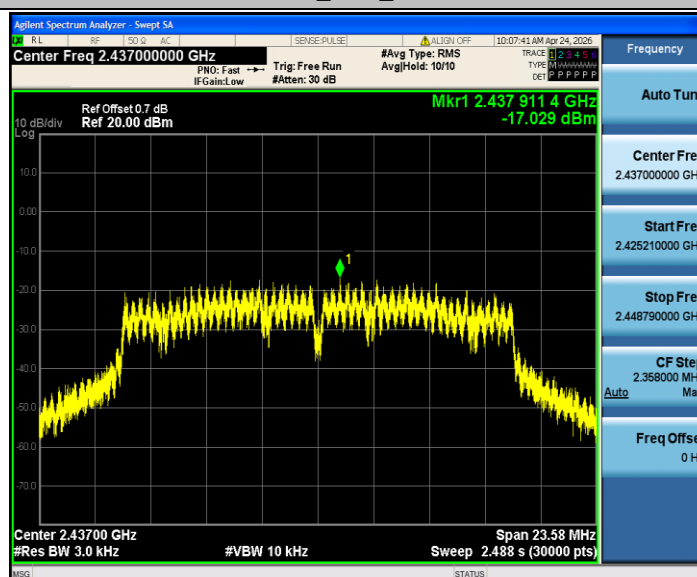
11B_Ant1_2462



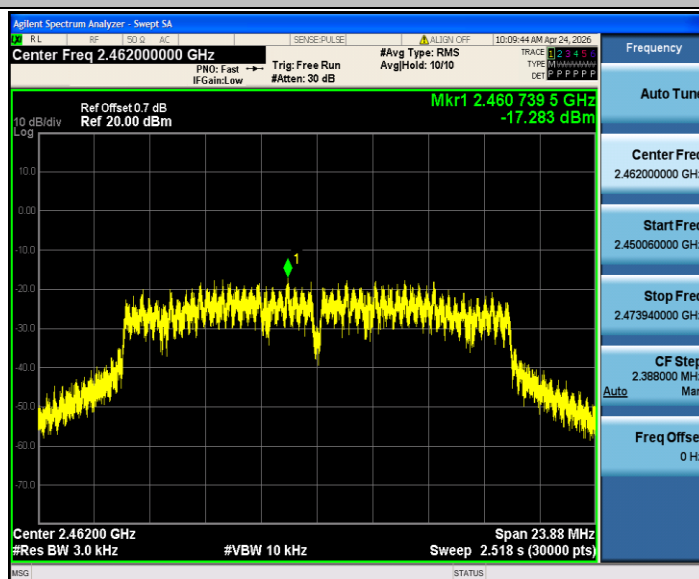
11G_Ant1_2412



11G_Ant1_2437



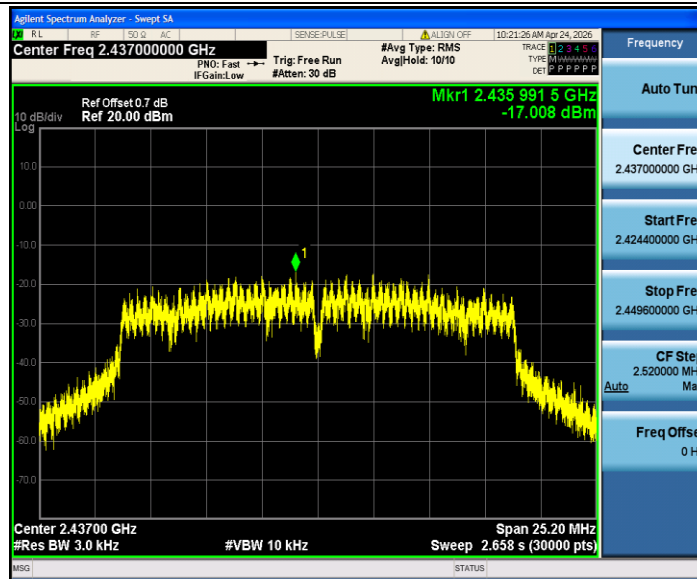
11G_Ant1_2462



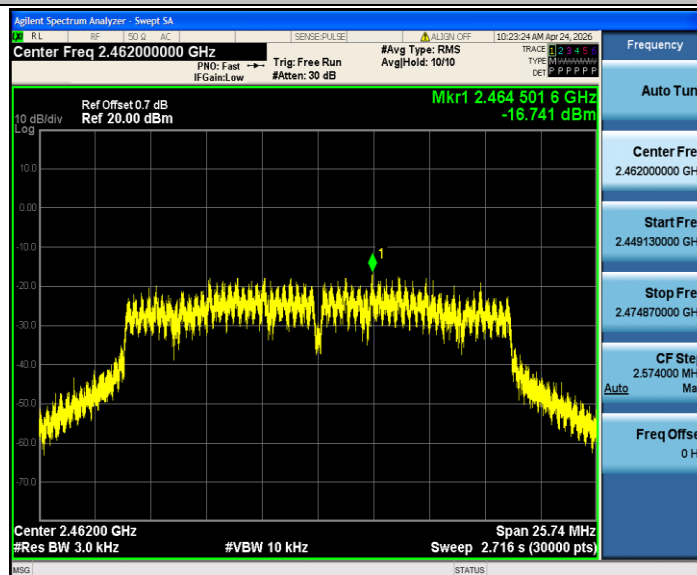
11N20SISO_Ant1_2412



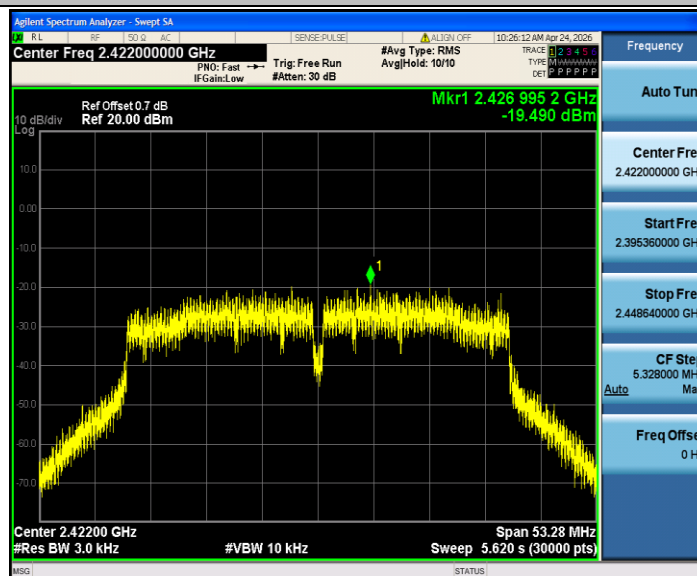
11N20SISO_Ant1_2437



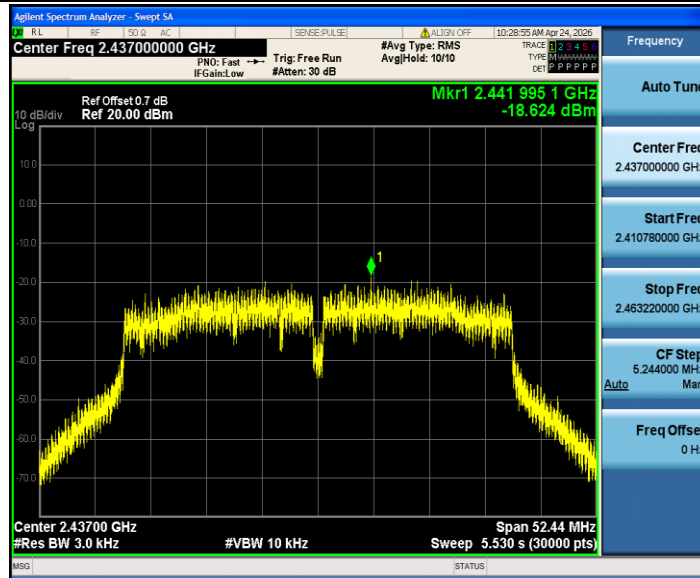
11N20SISO_Ant1_2462



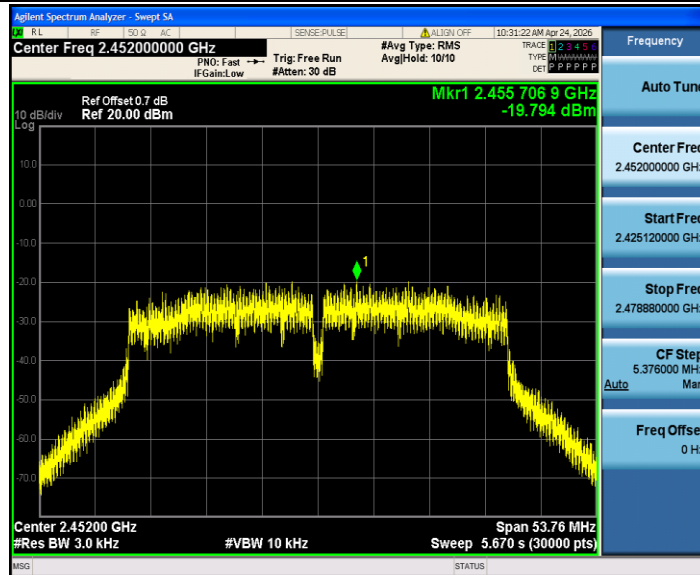
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



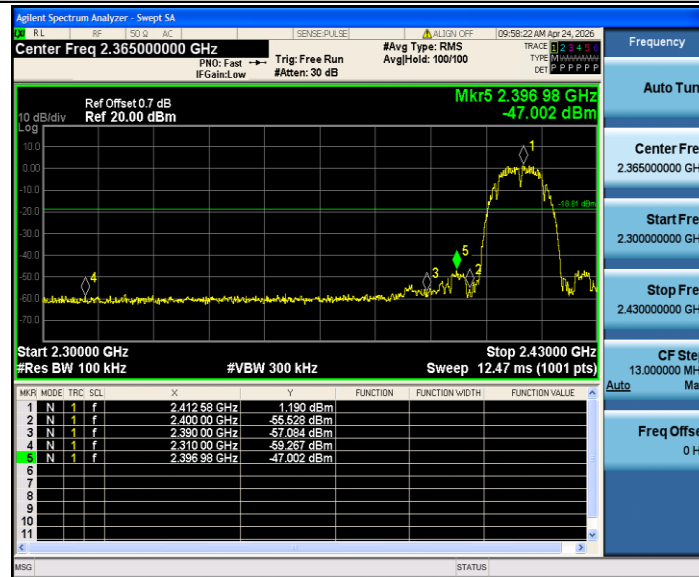
Appendix E: Band edge measurements

Test Result

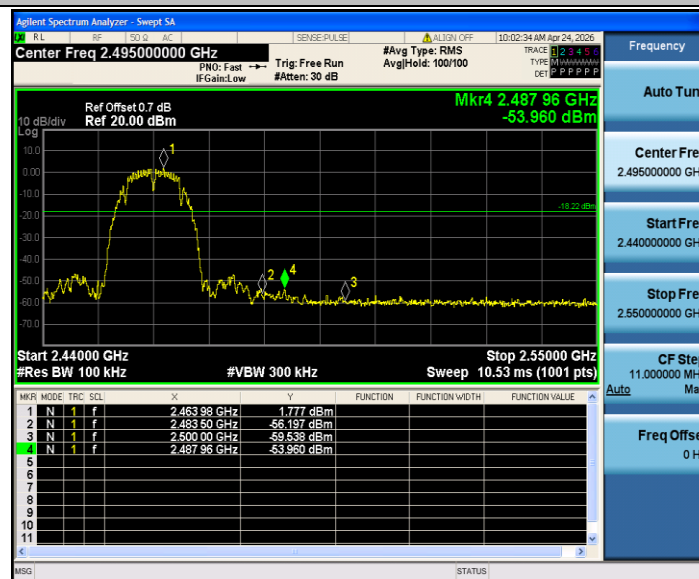
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.19	-47	≤-18.81	PASS
		High	2462	1.78	-53.96	≤-18.22	PASS
11G	Ant1	Low	2412	-1.89	-33.85	≤-21.89	PASS
		High	2462	-1.72	-57.72	≤-21.72	PASS
11N20SISO	Ant1	Low	2412	-1.98	-33.67	≤-21.98	PASS
		High	2462	-1.54	-57.09	≤-21.54	PASS
11N40SISO	Ant1	Low	2422	-5.09	-33.18	≤-25.09	PASS
		High	2452	-4.91	-54.19	≤-24.91	PASS

Test Graphs

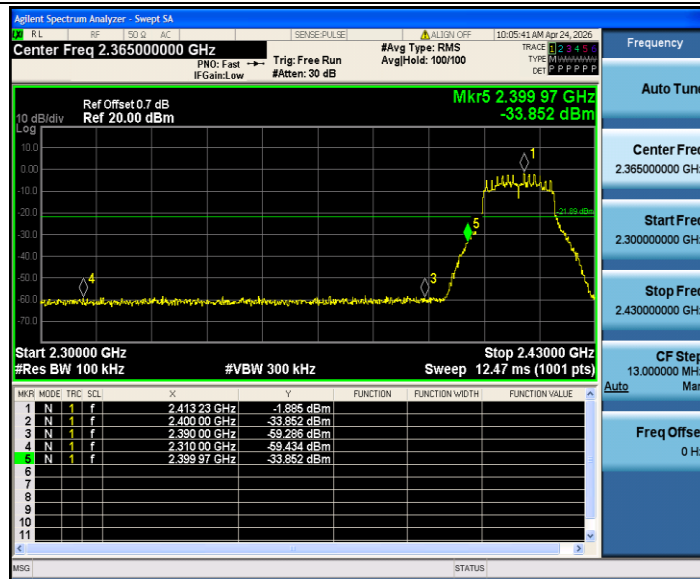
11B_Ant1_Low_2412



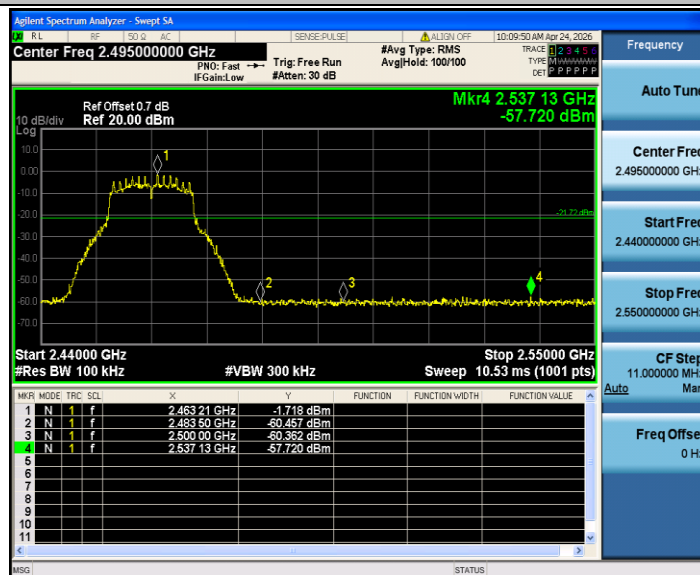
11B_Ant1_High_2462



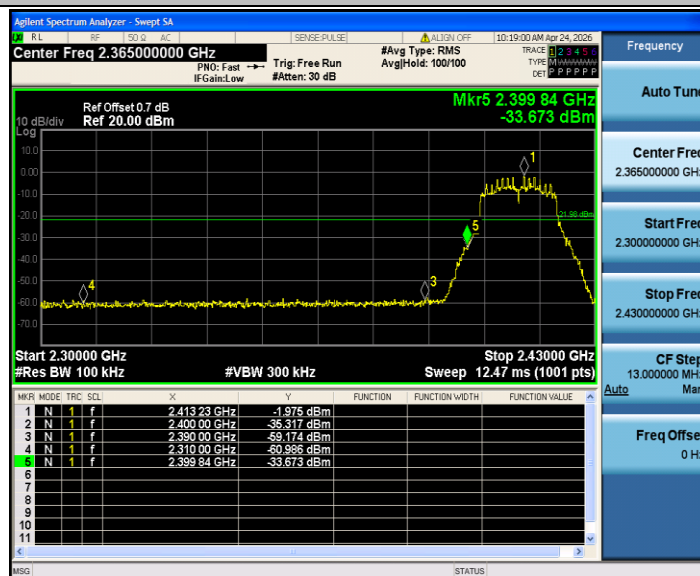
11G_Ant1_Low_2412



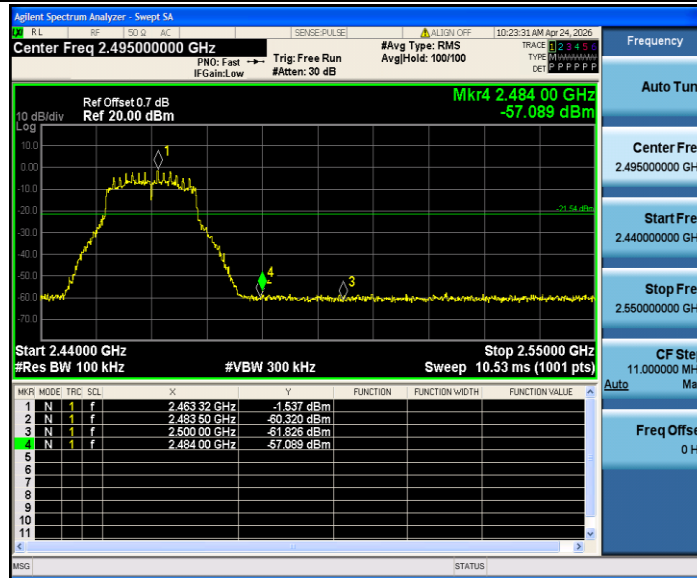
11G_Ant1_High_2462



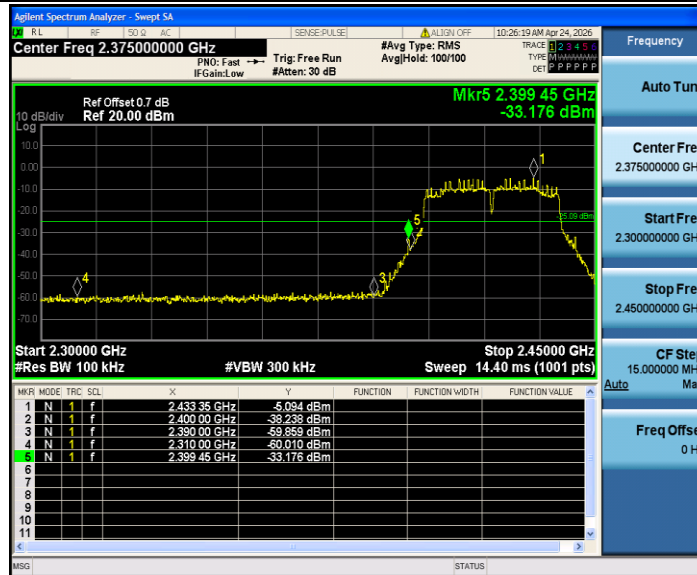
11N20SISO_Ant1_Low_2412



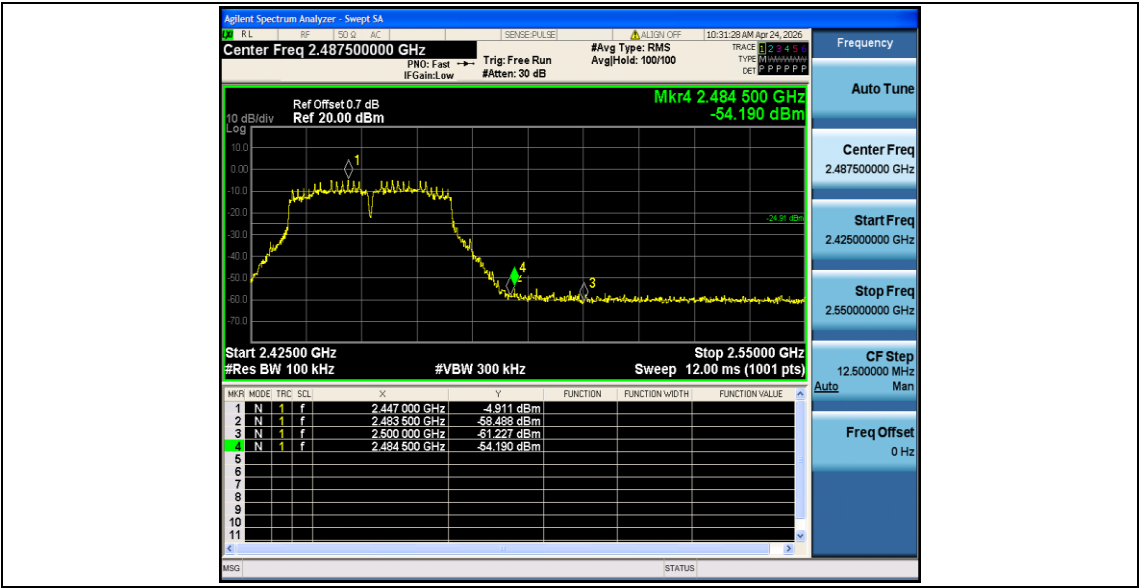
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

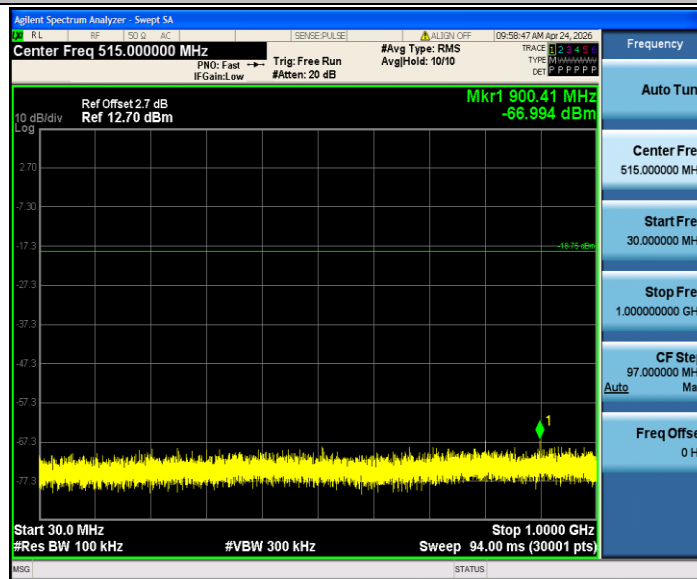
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-66.99	≤-18.75	PASS
			1000~26500	1.25	-54.17	≤-18.75	PASS
		2437	Reference	1.41	1.41	---	PASS
			30~1000	1.41	-68.13	≤-18.59	PASS
			1000~26500	1.41	-55.31	≤-18.59	PASS
		2462	Reference	1.87	1.87	---	PASS
			30~1000	1.87	-67.97	≤-18.13	PASS
			1000~26500	1.87	-55	≤-18.13	PASS
11G	Ant1	2412	Reference	-1.87	-1.87	---	PASS
			30~1000	-1.87	-67.77	≤-21.87	PASS
			1000~26500	-1.87	-54.73	≤-21.87	PASS
		2437	Reference	-1.95	-1.95	---	PASS
			30~1000	-1.95	-68.35	≤-21.95	PASS
			1000~26500	-1.95	-55.5	≤-21.95	PASS
		2462	Reference	-2.83	-2.83	---	PASS
			30~1000	-2.83	-67.7	≤-22.83	PASS
			1000~26500	-2.83	-54.79	≤-22.83	PASS
11N20SISO	Ant1	2412	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-68.02	≤-22.25	PASS
			1000~26500	-2.25	-55.23	≤-22.25	PASS
		2437	Reference	-2.33	-2.33	---	PASS
			30~1000	-2.33	-66.91	≤-22.33	PASS
			1000~26500	-2.33	-55.3	≤-22.33	PASS
		2462	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-67.43	≤-21.66	PASS
			1000~26500	-1.66	-55	≤-21.66	PASS
11N40SISO	Ant1	2422	Reference	-6.12	-6.12	---	PASS
			30~1000	-6.12	-67.67	≤-26.12	PASS
			1000~26500	-6.12	-55.64	≤-26.12	PASS
		2437	Reference	-4.89	-4.89	---	PASS
			30~1000	-4.89	-67.38	≤-24.89	PASS
			1000~26500	-4.89	-54.54	≤-24.89	PASS
		2452	Reference	-5.65	-5.65	---	PASS
			30~1000	-5.65	-67.91	≤-25.65	PASS
			1000~26500	-5.65	-55.78	≤-25.65	PASS

Test Graphs

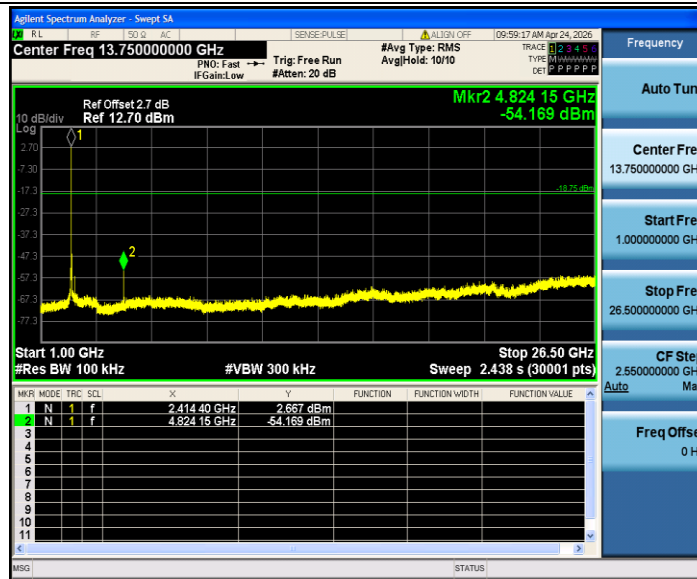
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



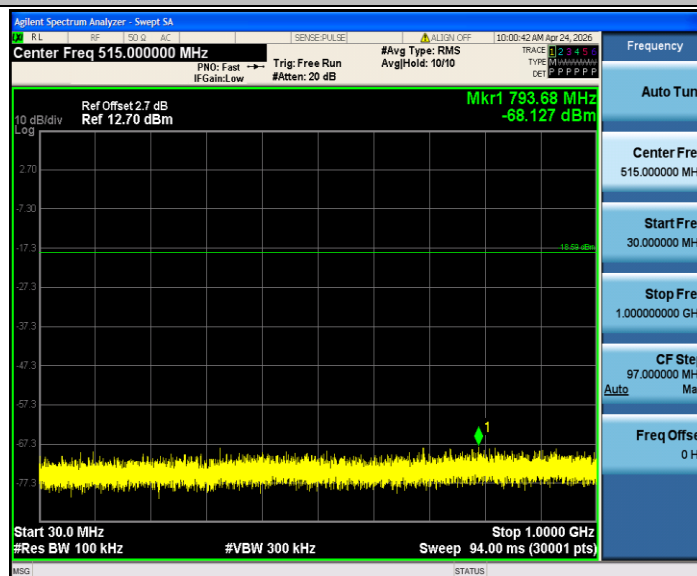
11B_Ant1_2412_1000~26500



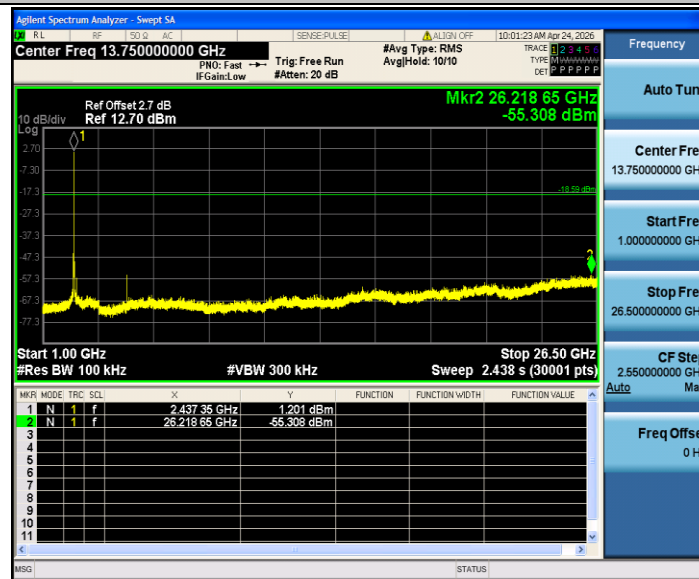
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



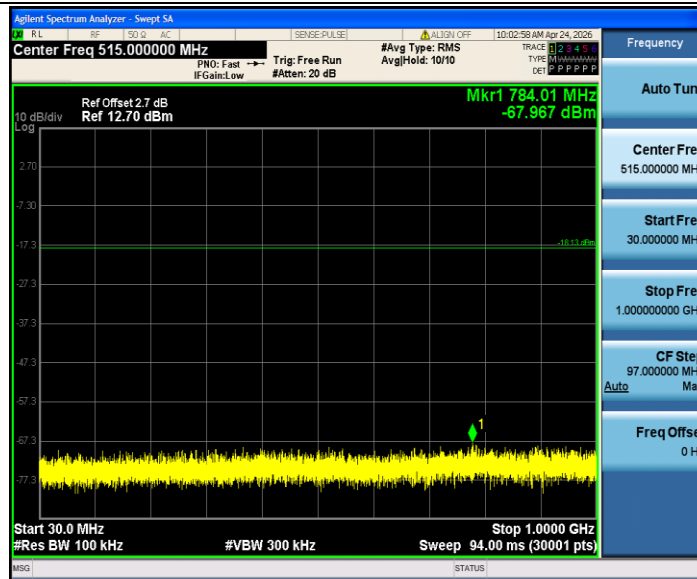
11B_Ant1_2437_1000~26500



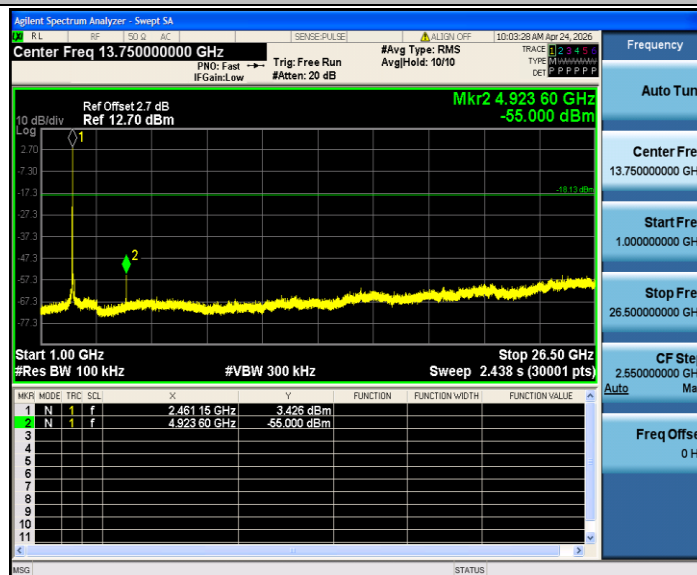
11B_Ant1_2462_0~Reference



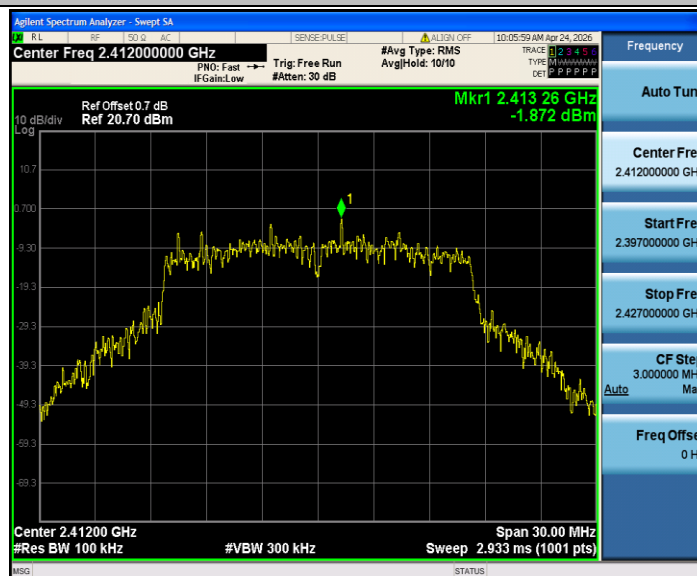
11B_Ant1_2462_30~1000



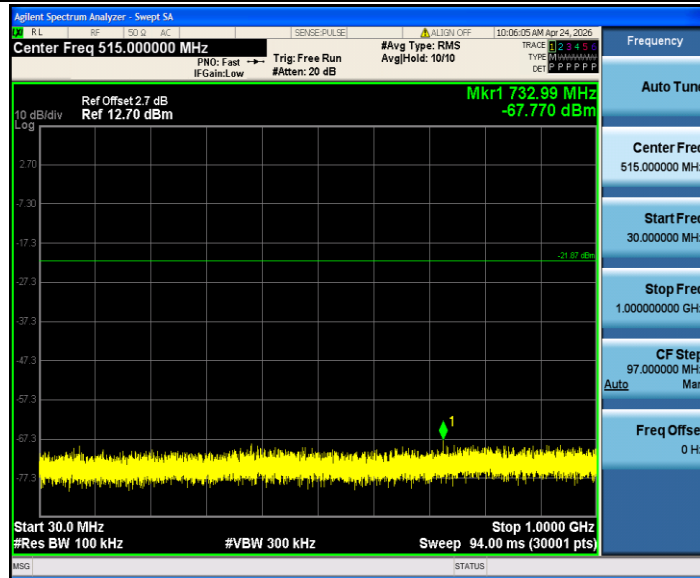
11B_Ant1_2462_1000~26500



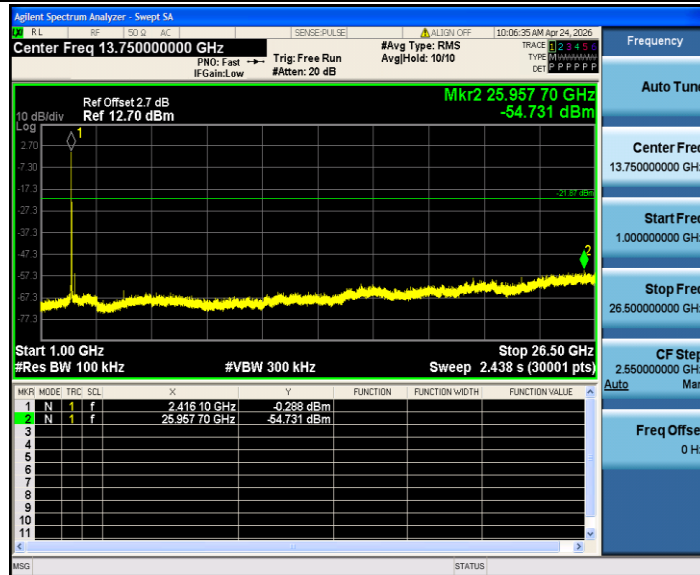
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



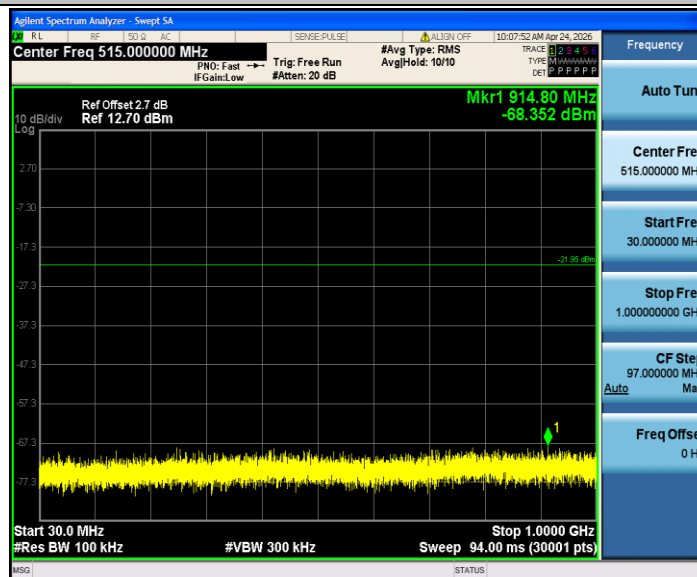
11G_Ant1_2412_1000~26500



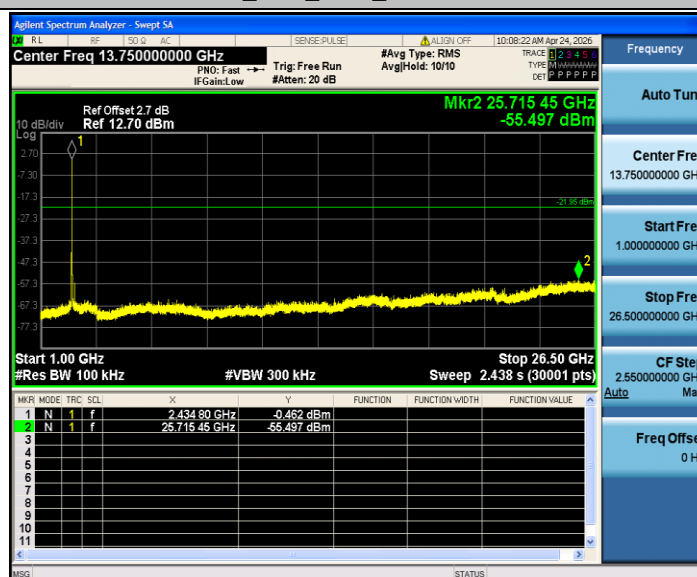
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



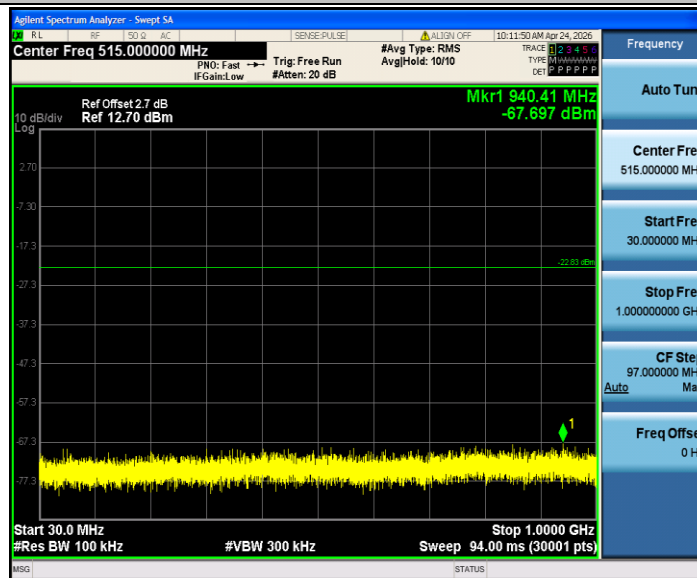
11G_Ant1_2437_1000~26500



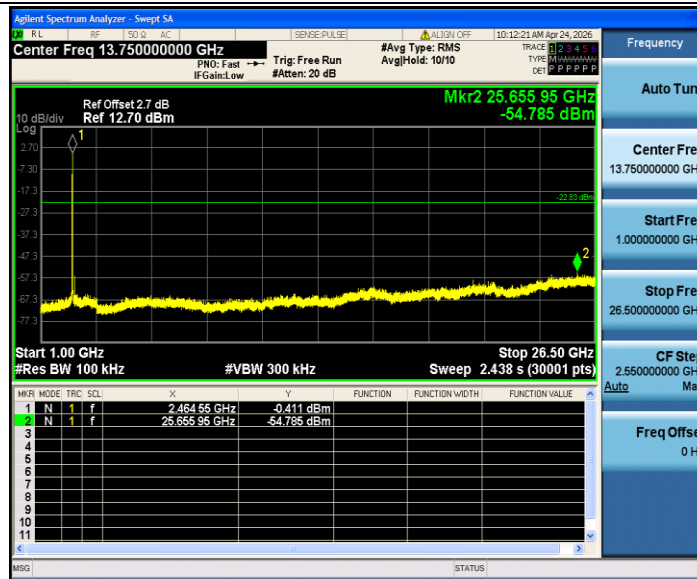
11G_Ant1_2462_0~Reference



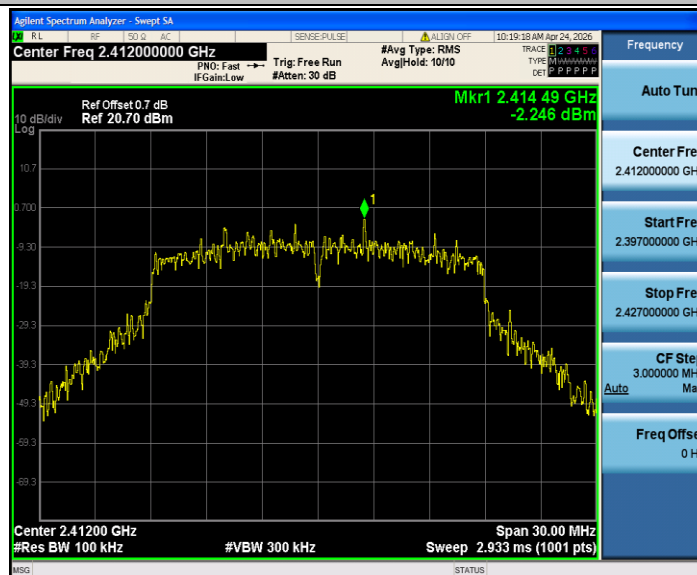
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

