

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BDQV-WP-YQ2

Company : Shenzhen Tenganda Intelligent Equipment Co., Ltd

EUT : Surveillance camera

Model Number : WP-Y0320SZ

Report No. : CTA26060901701

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	15.880	2404.040	2419.920	0.5	PASS
		2437	15.440	2429.320	2444.760	0.5	PASS
		2462	15.560	2454.320	2469.880	0.5	PASS
11N20SISO	Ant1	2412	17.000	2403.440	2420.440	0.5	PASS
		2437	16.800	2428.720	2445.520	0.5	PASS
		2462	16.120	2454.040	2470.160	0.5	PASS
11N40SISO	Ant1	2422	33.040	2406.640	2439.680	0.5	PASS
		2437	35.120	2419.880	2455.000	0.5	PASS
		2452	34.800	2434.880	2469.680	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



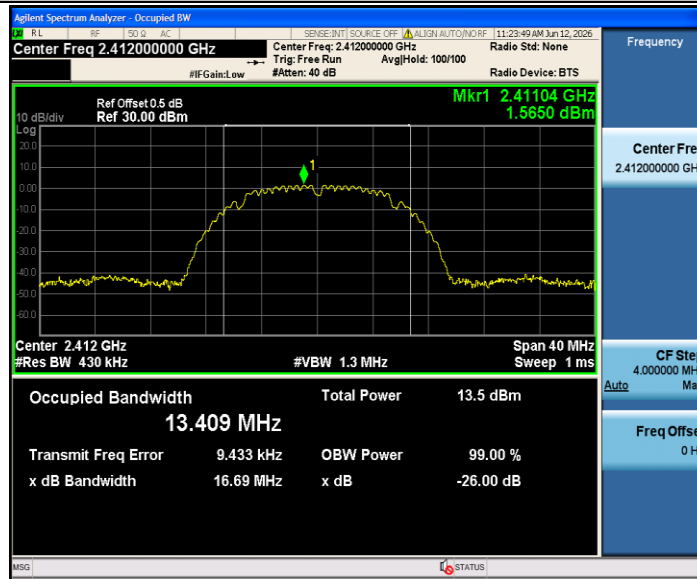
Appendix B: Occupied Channel Bandwidth

Test Result

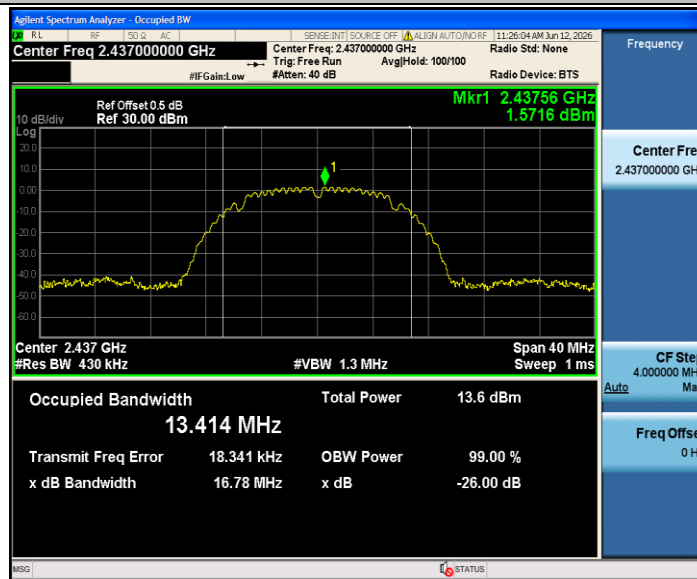
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.409	2405.3049	2418.7139	---	---
		2437	13.414	2430.3113	2443.7253	---	---
		2462	13.422	2455.3138	2468.7358	---	---
11G	Ant1	2412	16.807	2403.6162	2420.4232	---	---
		2437	16.906	2428.5926	2445.4986	---	---
		2462	16.947	2453.5666	2470.5136	---	---
11N20SISO	Ant1	2412	17.904	2403.0624	2420.9664	---	---
		2437	17.919	2428.0596	2445.9786	---	---
		2462	17.907	2453.0830	2470.9900	---	---
11N40SISO	Ant1	2422	36.055	2404.0983	2440.1533	---	---
		2437	36.070	2419.0797	2455.1497	---	---
		2452	36.141	2434.0382	2470.1792	---	---

Test Graphs

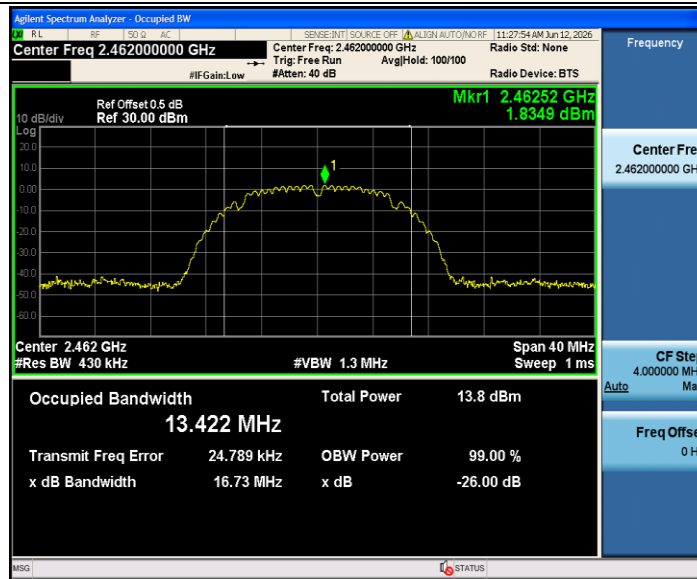
11B_Ant1_2412



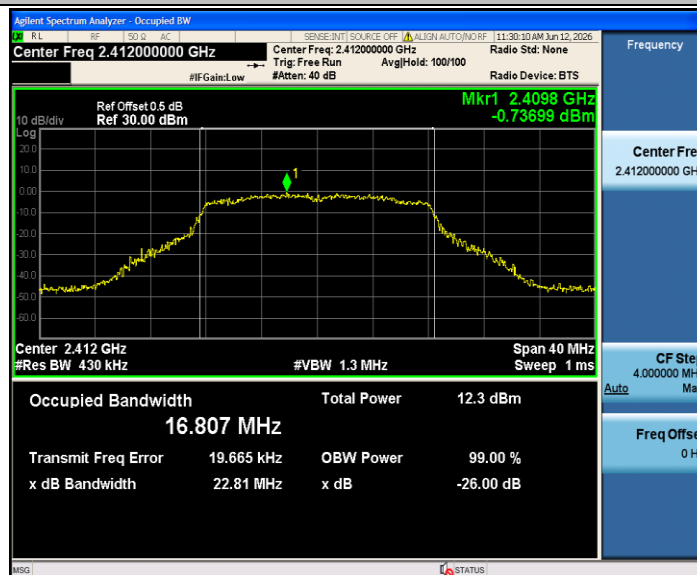
11B_Ant1_2437



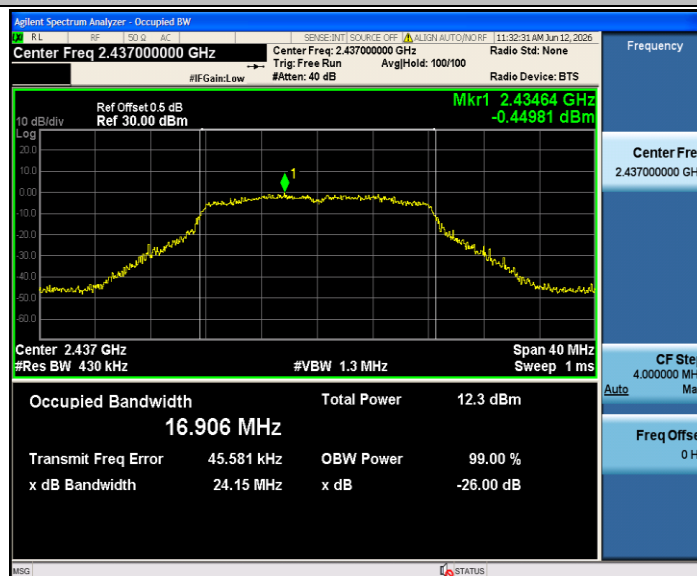
11B_Ant1_2462



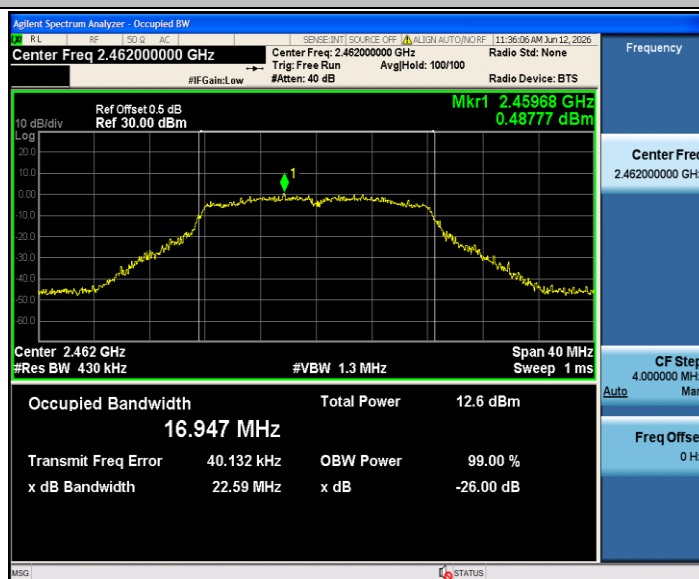
11G_Ant1_2412



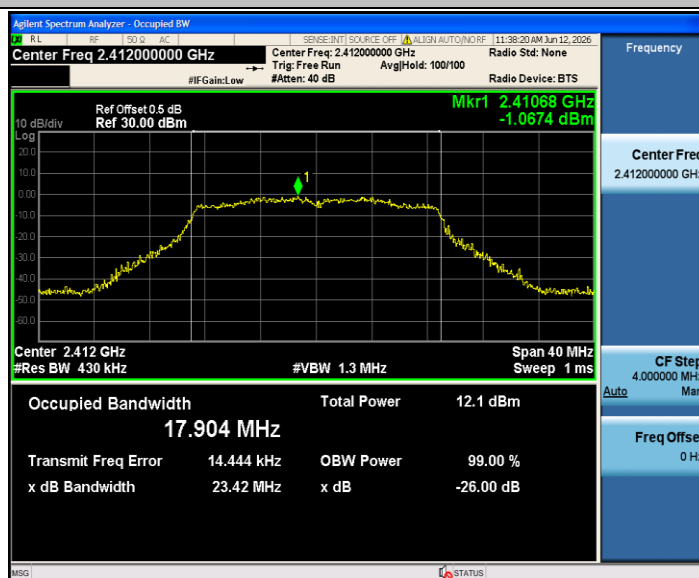
11G_Ant1_2437



11G_Ant1_2462



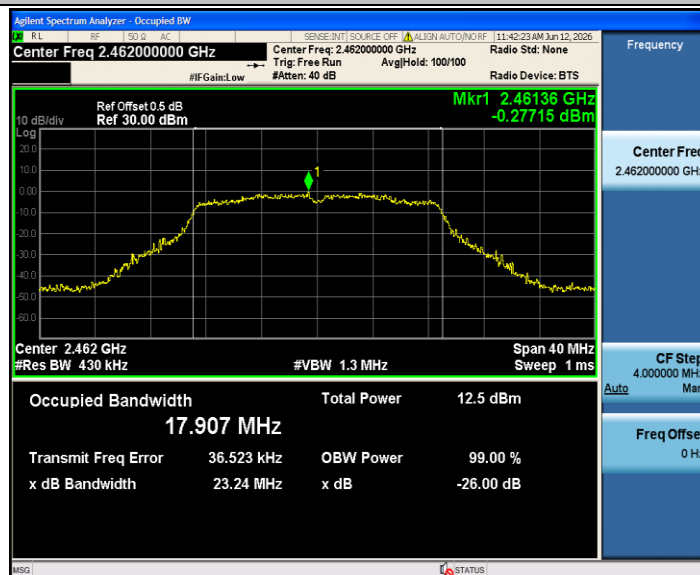
11N20SISO_Ant1_2412



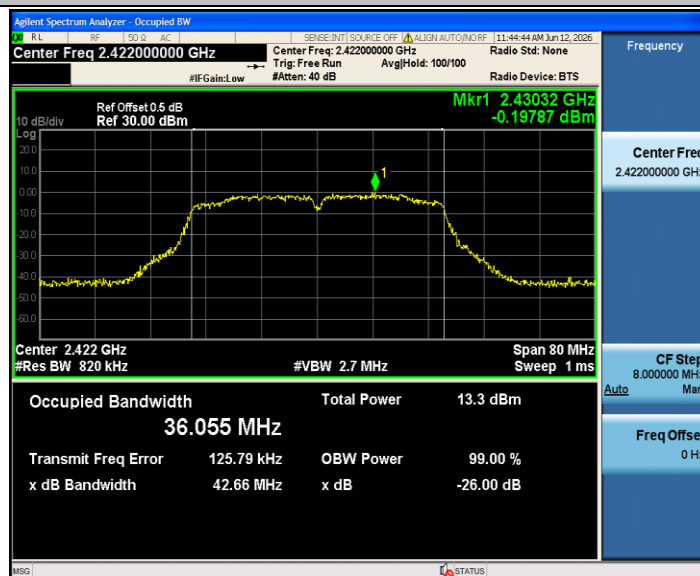
11N20SISO_Ant1_2437



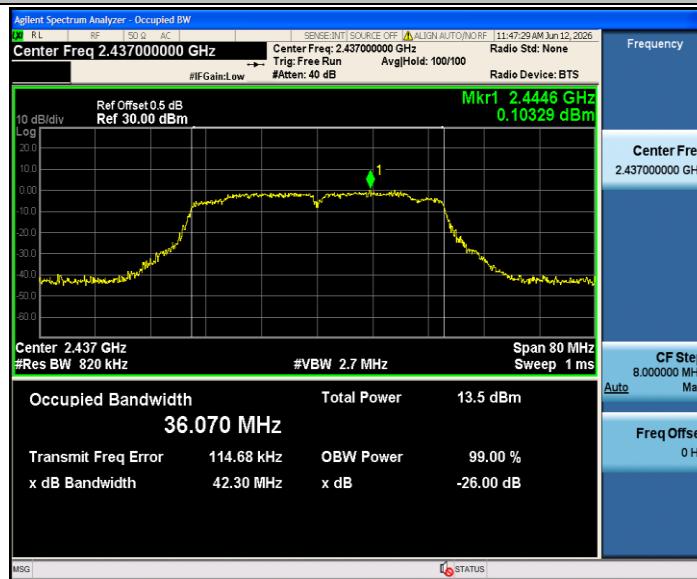
11N20SISO_Ant1_2462



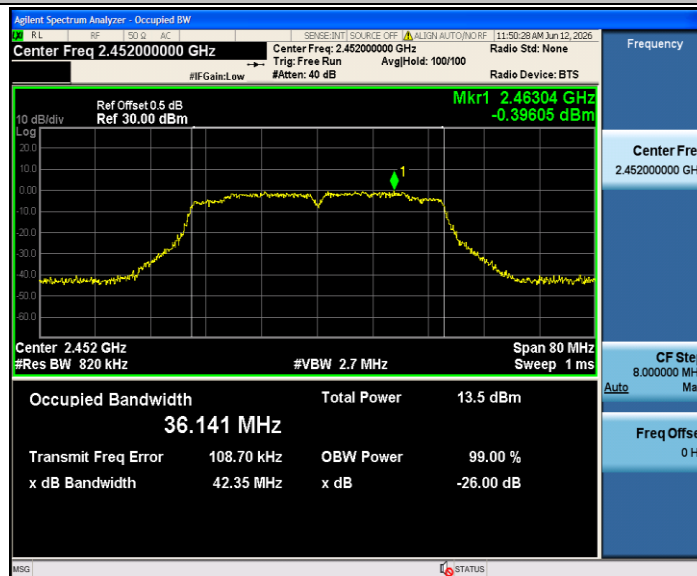
11N40SISO_Ant1_2422



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	13.89	≤30.00	PASS
		2437	13.28	≤30.00	PASS
		2462	13.46	≤30.00	PASS
11G	Ant1	2412	13.16	≤30.00	PASS
		2437	13.19	≤30.00	PASS
		2462	13.45	≤30.00	PASS
11N20SISO	Ant1	2412	13.13	≤30.00	PASS
		2437	13.13	≤30.00	PASS
		2462	13.17	≤30.00	PASS
11N40SISO	Ant1	2422	13.25	≤30.00	PASS
		2437	13.52	≤30.00	PASS
		2452	13.57	≤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	-13.38	≤8.00	PASS
		2437	-13.03	≤8.00	PASS
		2462	-11.75	≤8.00	PASS
11G	Ant1	2412	-18.39	≤8.00	PASS
		2437	-18.53	≤8.00	PASS
		2462	-18.48	≤8.00	PASS
11N20SISO	Ant1	2412	-19.16	≤8.00	PASS
		2437	-18.45	≤8.00	PASS
		2462	-16.61	≤8.00	PASS
11N40SISO	Ant1	2422	-20.97	≤8.00	PASS
		2437	-20.58	≤8.00	PASS
		2452	-20.71	≤8.00	PASS

Test Graphs

11B_Ant1_2412



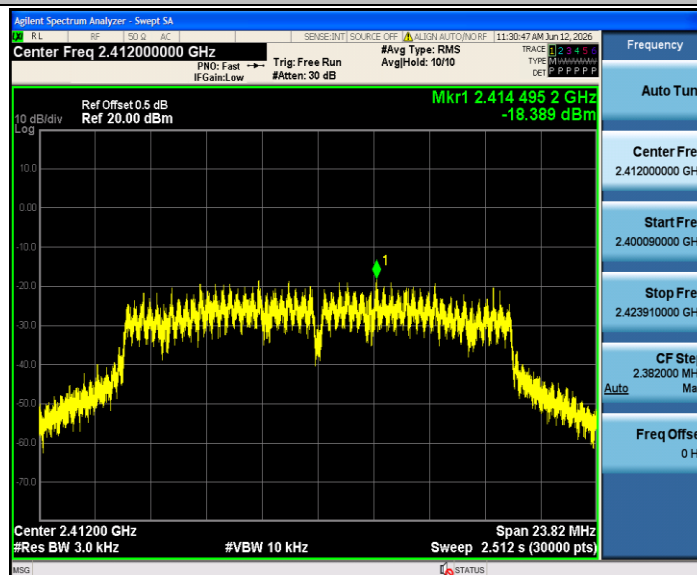
11B_Ant1_2437



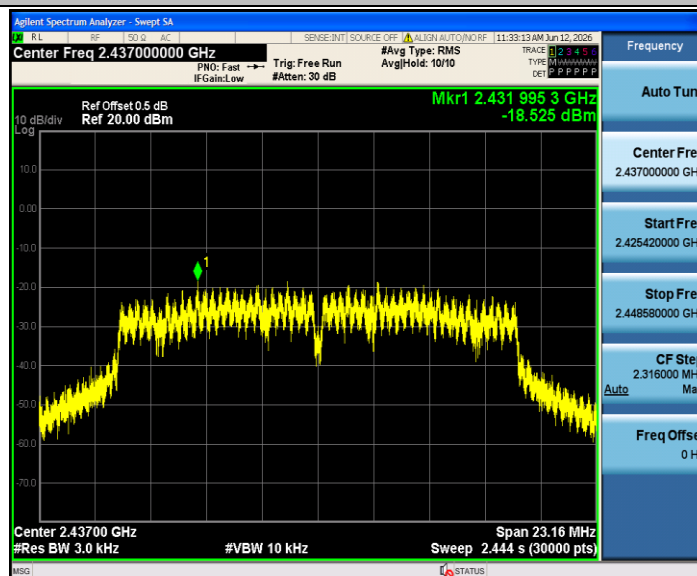
11B_Ant1_2462



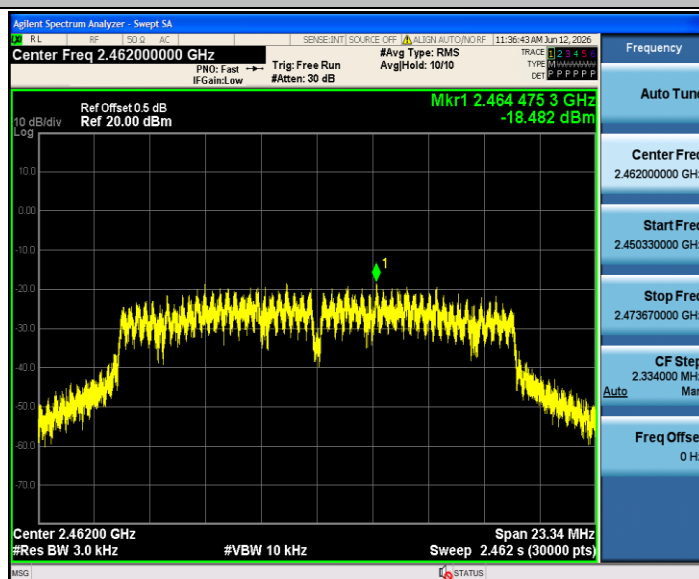
11G_Ant1_2412



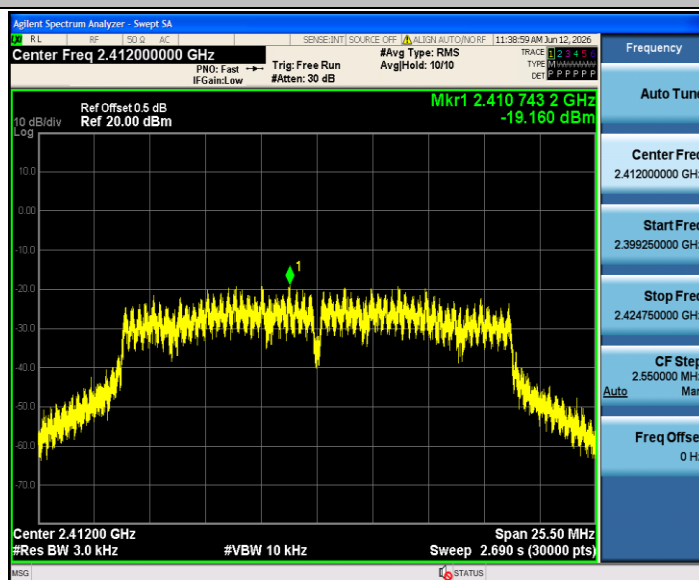
11G_Ant1_2437



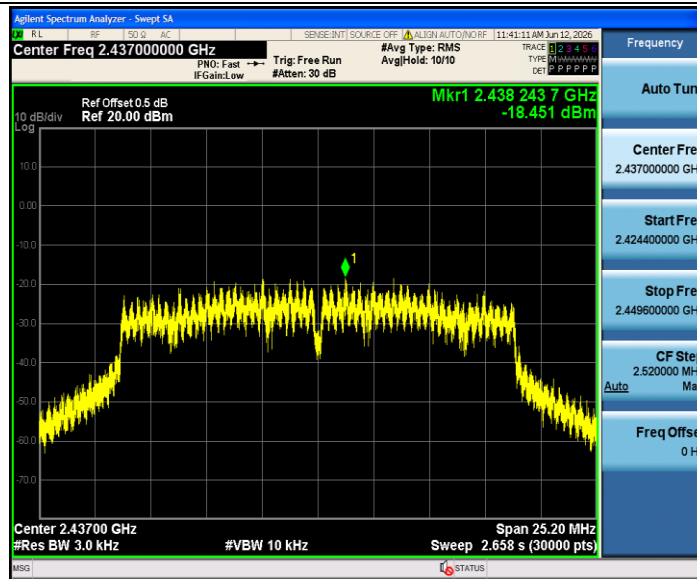
11G_Ant1_2462



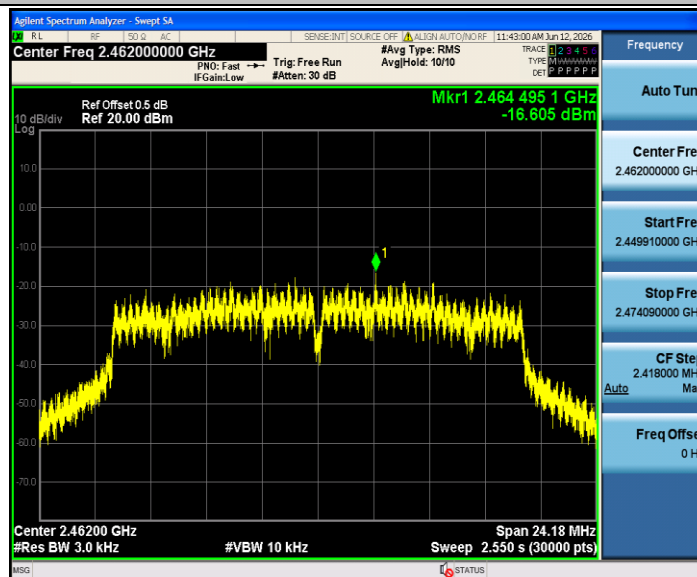
11N20SISO_Ant1_2412



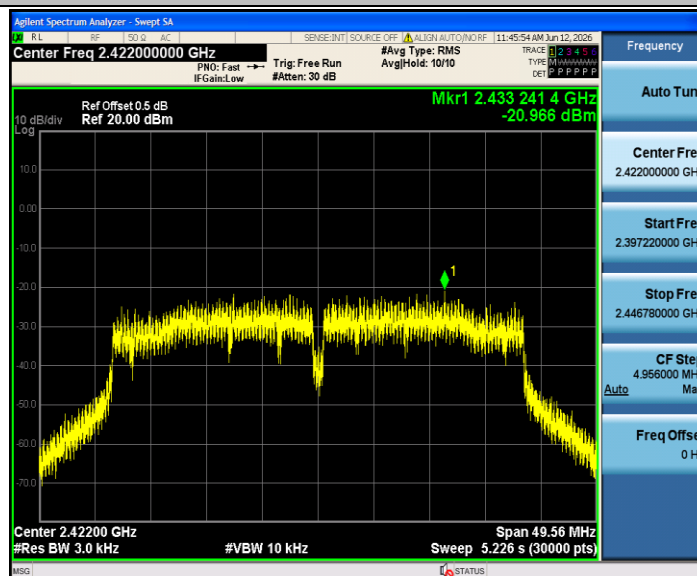
11N20SISO_Ant1_2437



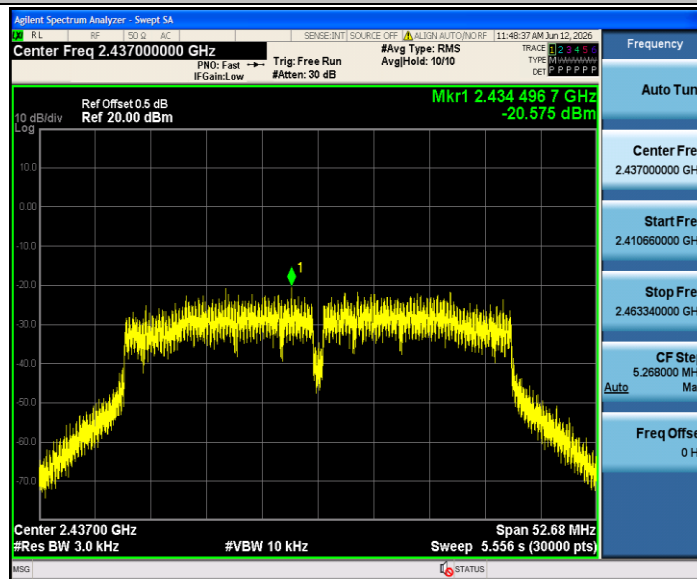
11N20SISO_Ant1_2462



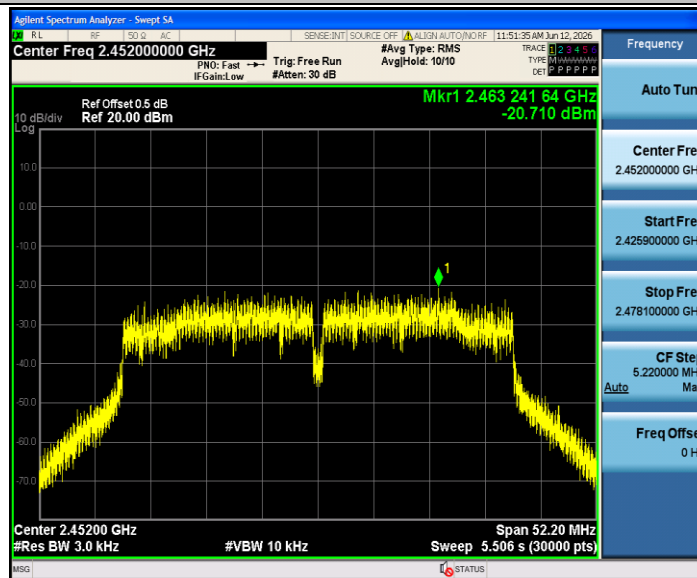
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



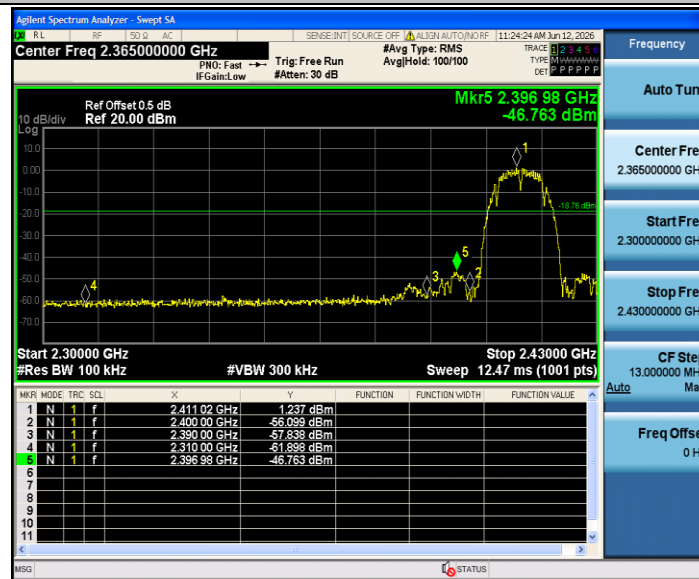
Appendix E: Band edge measurements

Test Result

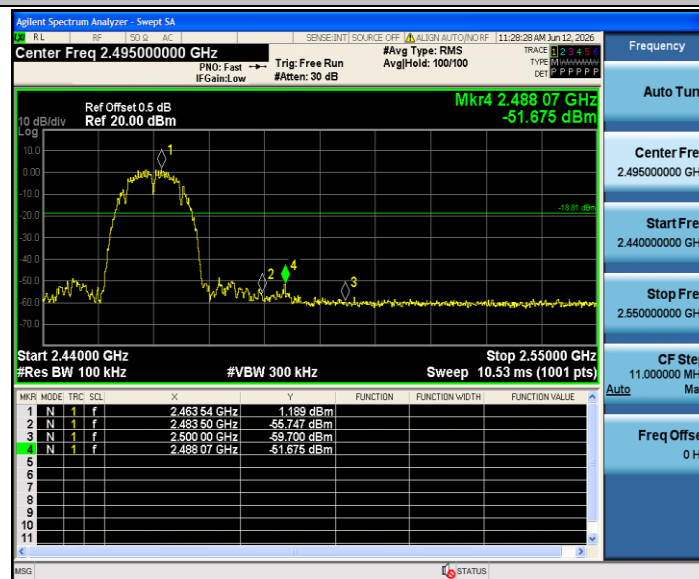
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.24	-46.76	≤-18.76	PASS
		High	2462	1.19	-51.68	≤-18.81	PASS
11G	Ant1	Low	2412	-3.32	-36.34	≤-23.32	PASS
		High	2462	-2.86	-57.63	≤-22.86	PASS
11N20SISO	Ant1	Low	2412	-3.17	-35.77	≤-23.17	PASS
		High	2462	-3.02	-57.7	≤-23.02	PASS
11N40SISO	Ant1	Low	2422	-6.79	-35.16	≤-26.79	PASS
		High	2452	-6.17	-58.44	≤-26.17	PASS

Test Graphs

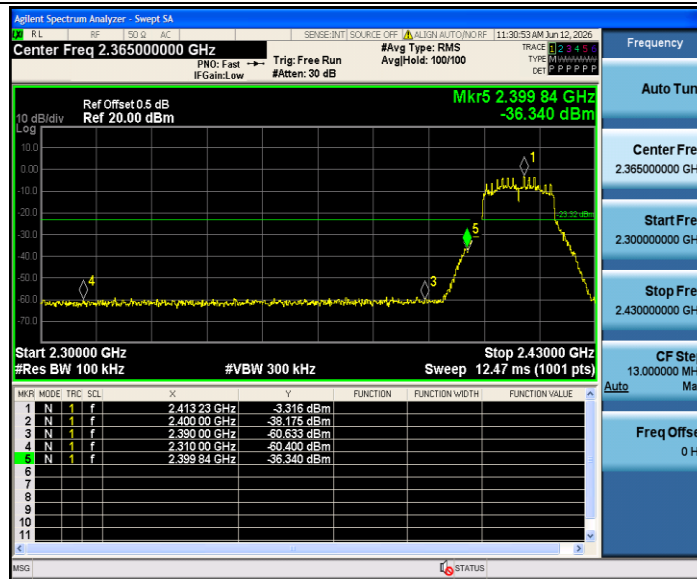
11B_Ant1_Low_2412



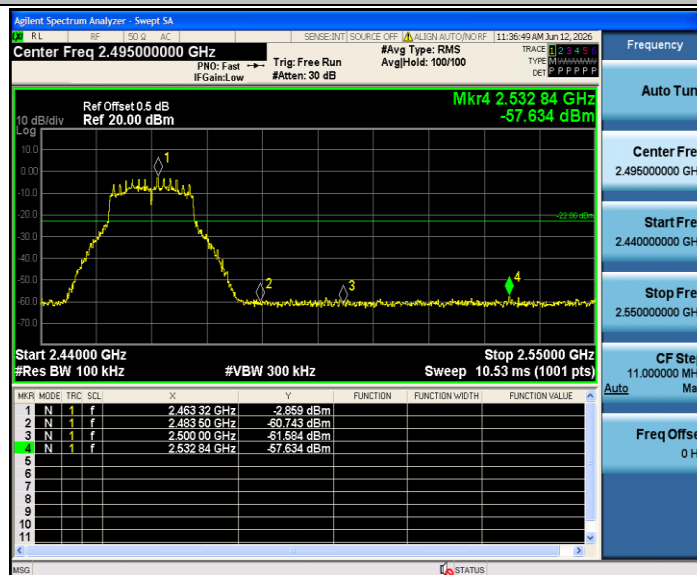
11B_Ant1_High_2462



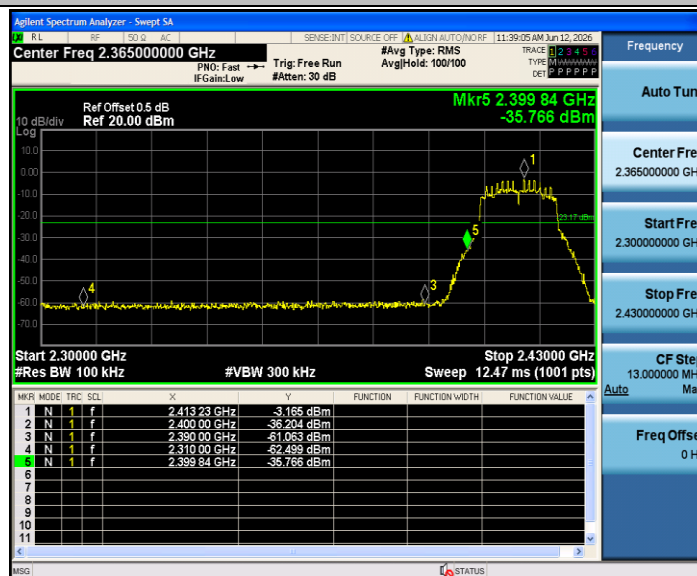
11G_Ant1_Low_2412



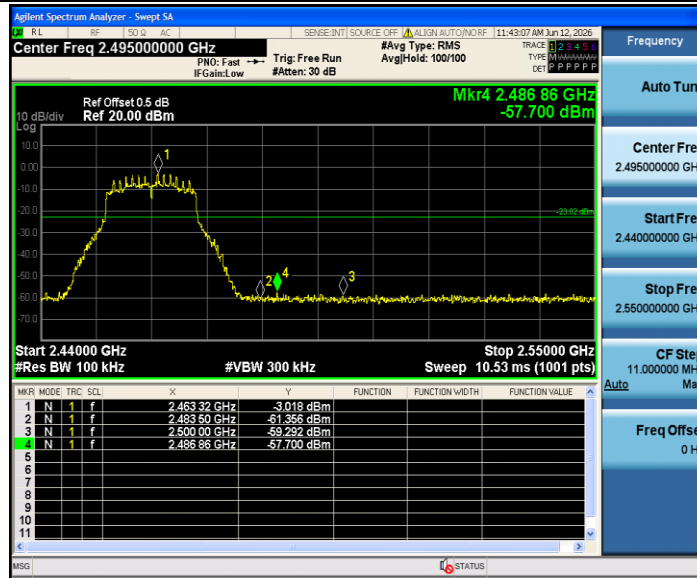
11G_Ant1_High_2462



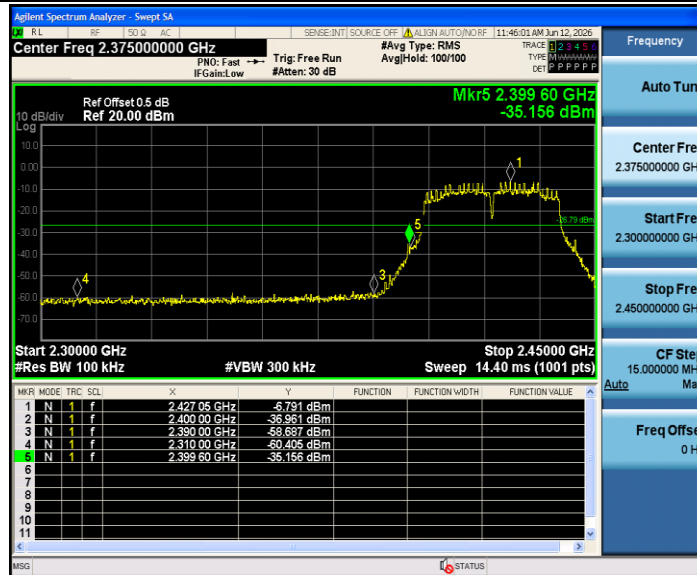
11N20SISO_Ant1_Low_2412



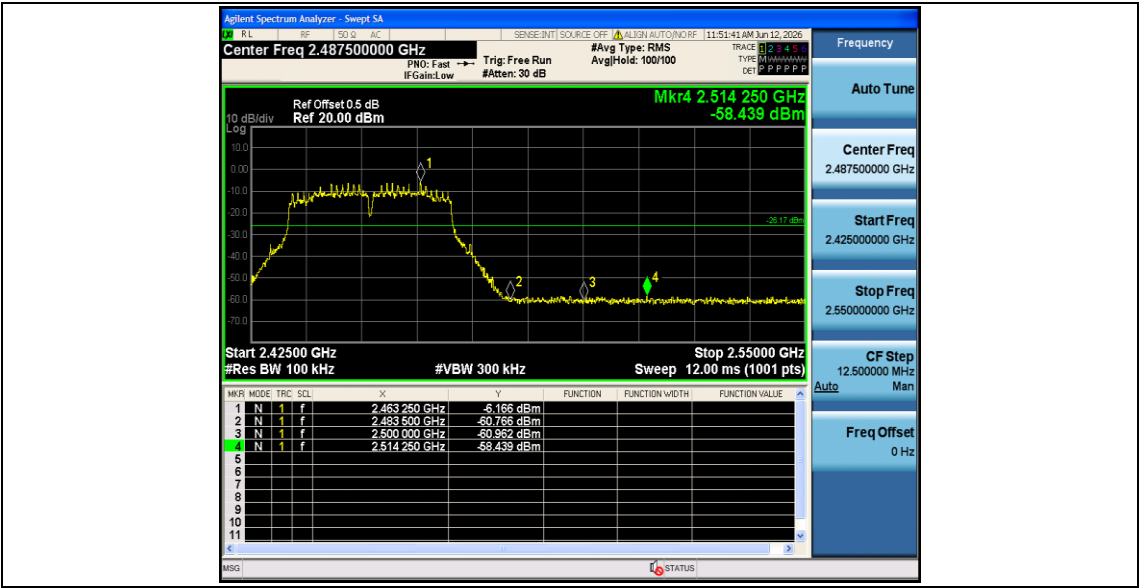
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

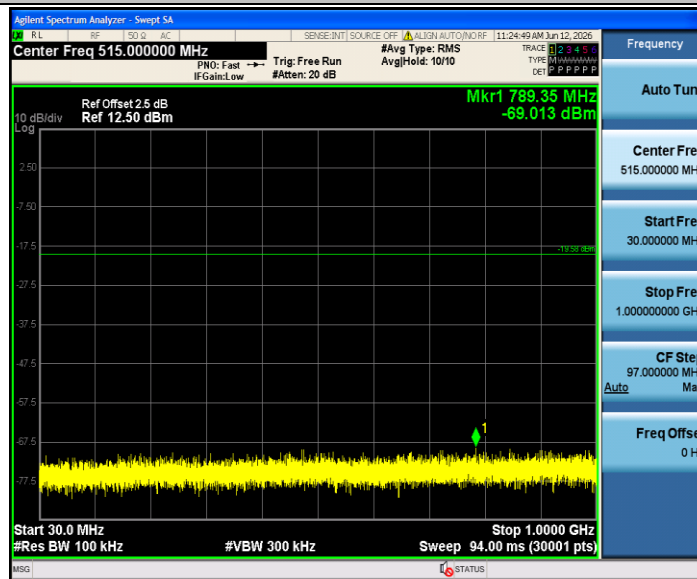
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-69.01	≤-19.58	PASS
			1000~26500	0.42	-56.6	≤-19.58	PASS
		2437	Reference	0.88	0.88	---	PASS
			30~1000	0.88	-68.73	≤-19.12	PASS
			1000~26500	0.88	-56.63	≤-19.12	PASS
		2462	Reference	1.04	1.04	---	PASS
			30~1000	1.04	-67.73	≤-18.96	PASS
			1000~26500	1.04	-56.52	≤-18.96	PASS
11G	Ant1	2412	Reference	-3.94	-3.94	---	PASS
			30~1000	-3.94	-68.58	≤-23.94	PASS
			1000~26500	-3.94	-57.41	≤-23.94	PASS
		2437	Reference	-5.30	-5.30	---	PASS
			30~1000	-5.30	-69.54	≤-25.3	PASS
			1000~26500	-5.30	-56.5	≤-25.3	PASS
		2462	Reference	-3.51	-3.51	---	PASS
			30~1000	-3.51	-68.65	≤-23.51	PASS
			1000~26500	-3.51	-56.93	≤-23.51	PASS
11N20SISO	Ant1	2412	Reference	-3.98	-3.98	---	PASS
			30~1000	-3.98	-68.76	≤-23.98	PASS
			1000~26500	-3.98	-56.6	≤-23.98	PASS
		2437	Reference	-4.62	-4.62	---	PASS
			30~1000	-4.62	-68.71	≤-24.62	PASS
			1000~26500	-4.62	-56.34	≤-24.62	PASS
		2462	Reference	-2.90	-2.90	---	PASS
			30~1000	-2.90	-68.76	≤-22.9	PASS
			1000~26500	-2.90	-57.31	≤-22.9	PASS
11N40SISO	Ant1	2422	Reference	-7.09	-7.09	---	PASS
			30~1000	-7.09	-68.48	≤-27.09	PASS
			1000~26500	-7.09	-56.87	≤-27.09	PASS
		2437	Reference	-6.82	-6.82	---	PASS
			30~1000	-6.82	-68.53	≤-26.82	PASS
			1000~26500	-6.82	-56.66	≤-26.82	PASS
		2452	Reference	-6.92	-6.92	---	PASS
			30~1000	-6.92	-69.39	≤-26.92	PASS
			1000~26500	-6.92	-56.91	≤-26.92	PASS

Test Graphs

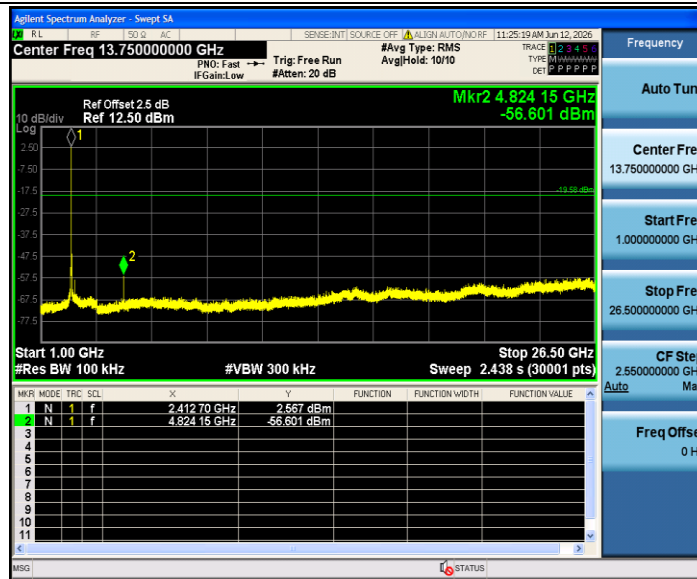
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



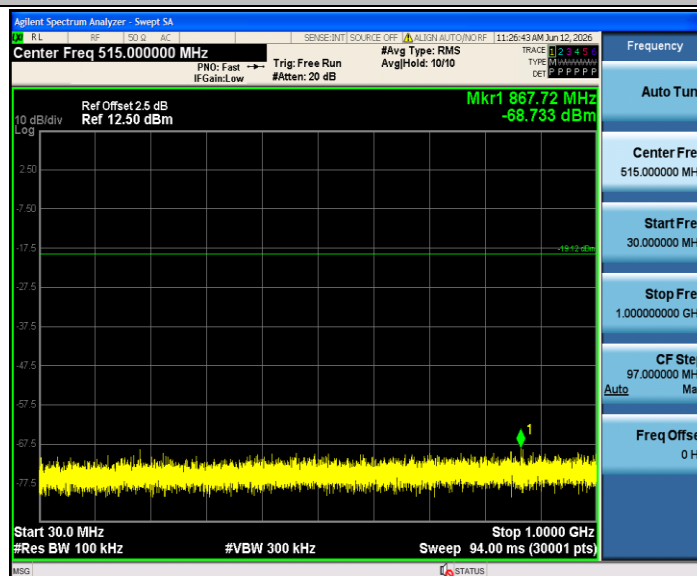
11B_Ant1_2412_1000~26500



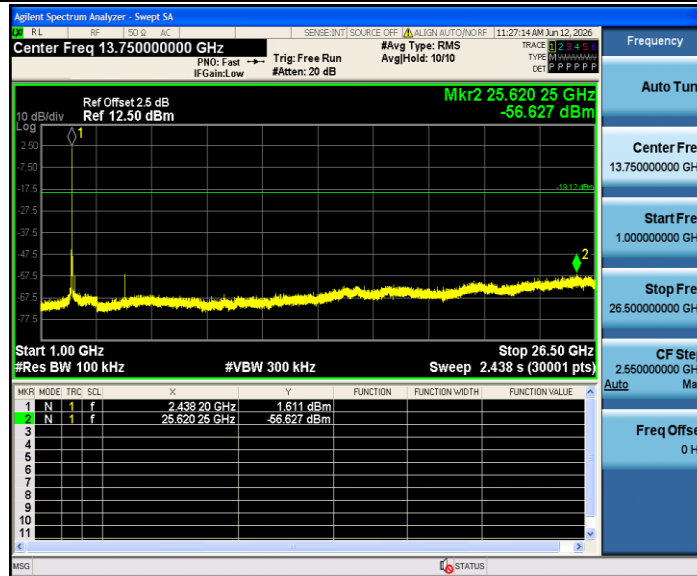
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



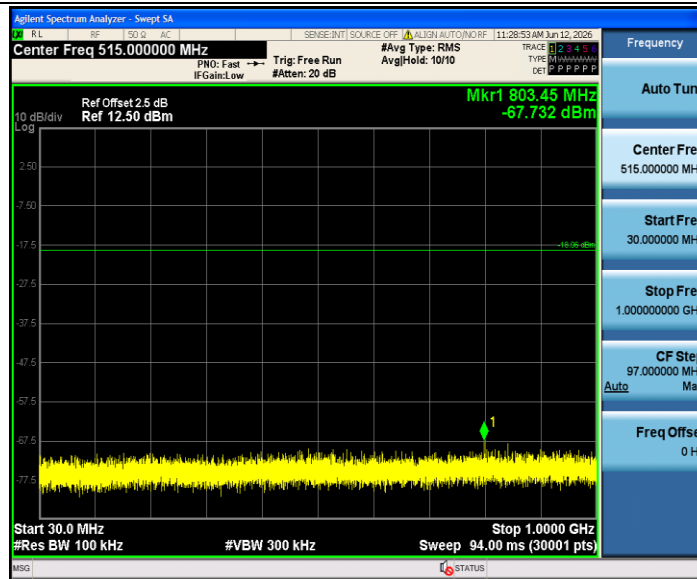
11B_Ant1_2437_1000~26500



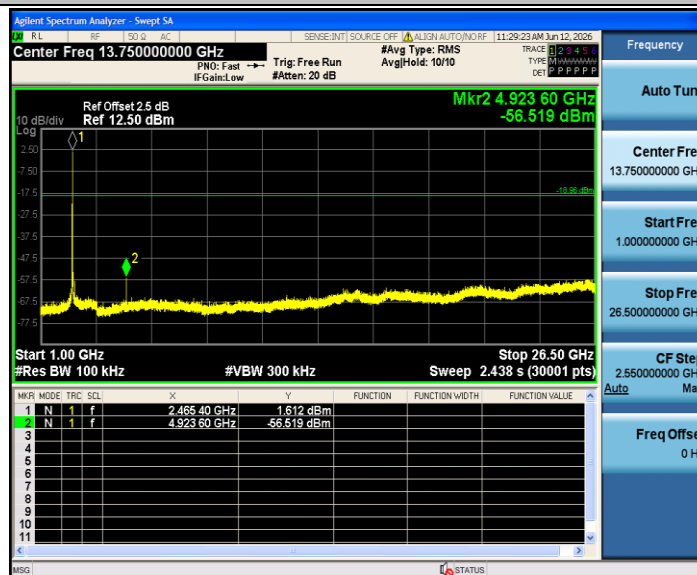
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



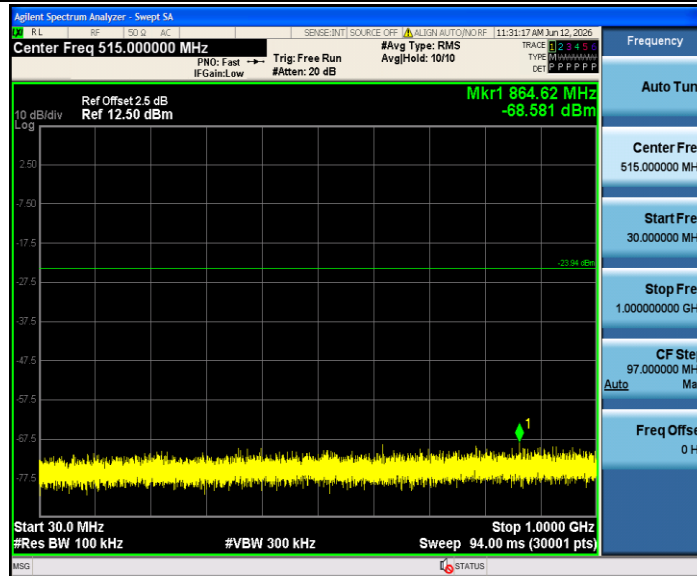
11B_Ant1_2462_1000~26500



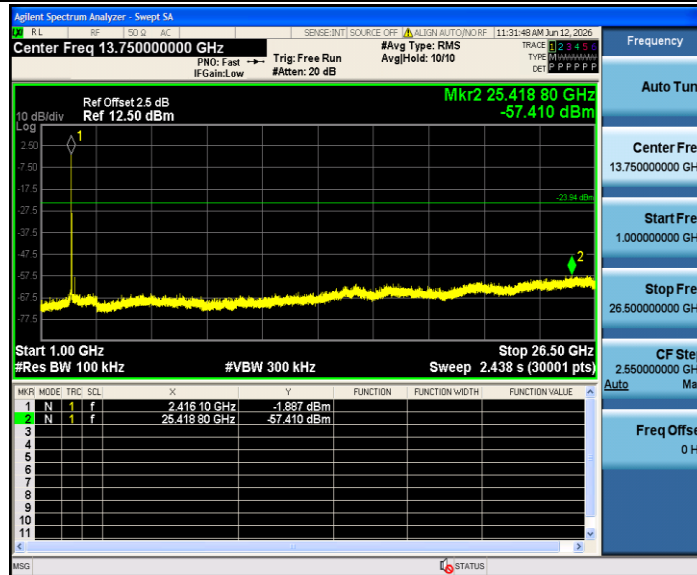
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



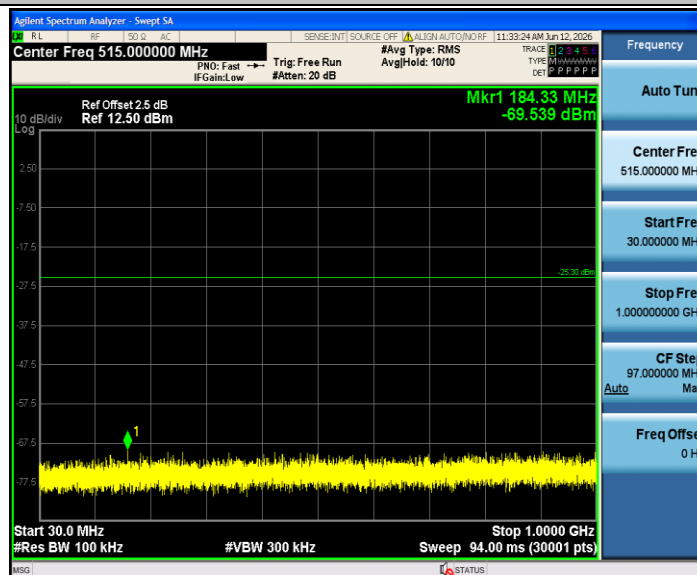
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



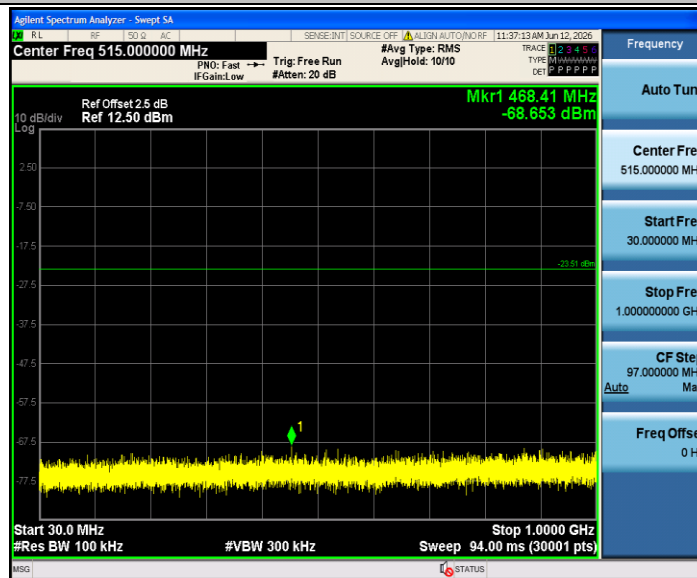
11G_Ant1_2437_1000~26500



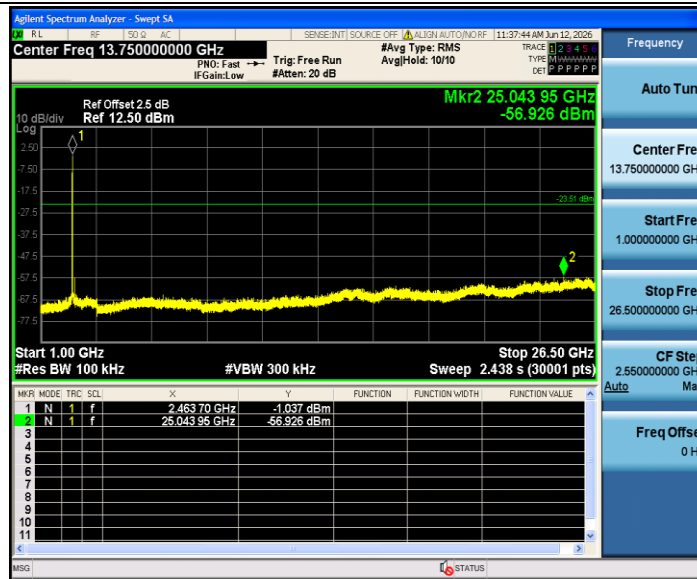
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

