

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BMIJ-K4W-2

Company : SHENZHEN HFWVISION TECHNOLOGY CO.,LTD

EUT : Wireless Camera

Model Number : K4W-2

Report No. : CTA26082100501

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	10.200	2406.920	2417.120	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	15.360	2404.280	2419.640	0.5	PASS
		2437	15.960	2429.000	2444.960	0.5	PASS
		2462	15.840	2454.160	2470.000	0.5	PASS
11N20SISO	Ant1	2412	17.080	2403.480	2420.560	0.5	PASS
		2437	16.960	2428.400	2445.360	0.5	PASS
		2462	16.960	2453.720	2470.680	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.320	2440.000	0.5	PASS
		2437	35.440	2419.400	2454.840	0.5	PASS
		2452	35.600	2434.480	2470.080	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



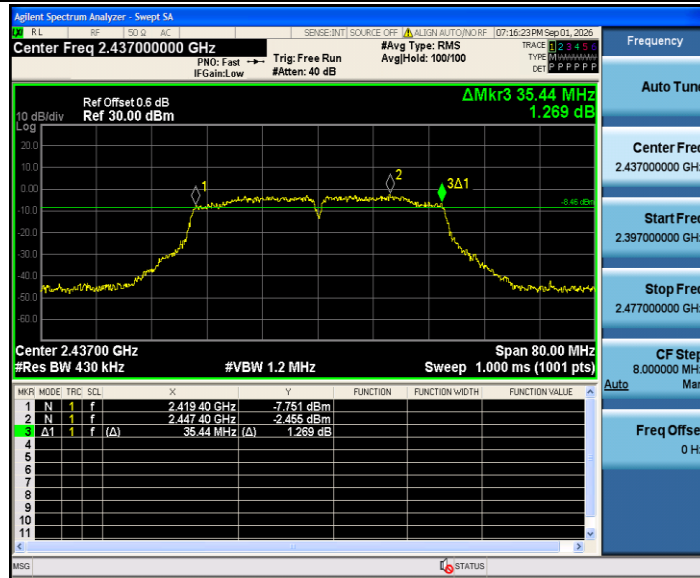
11N20SISO_Ant1_2462



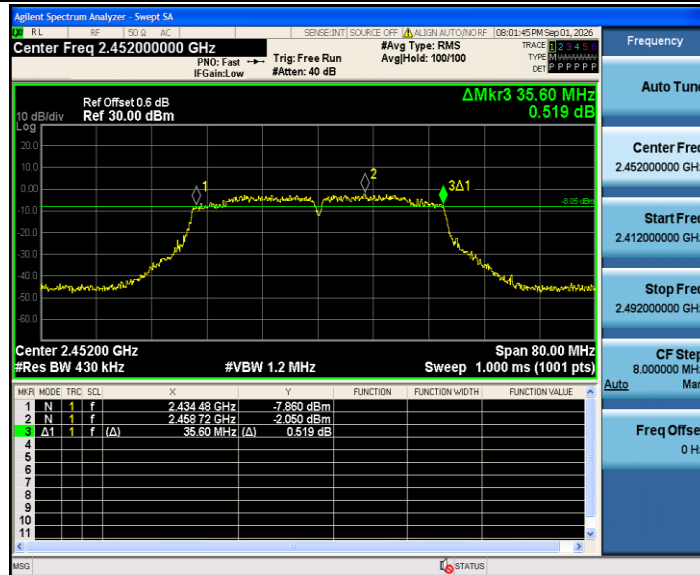
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



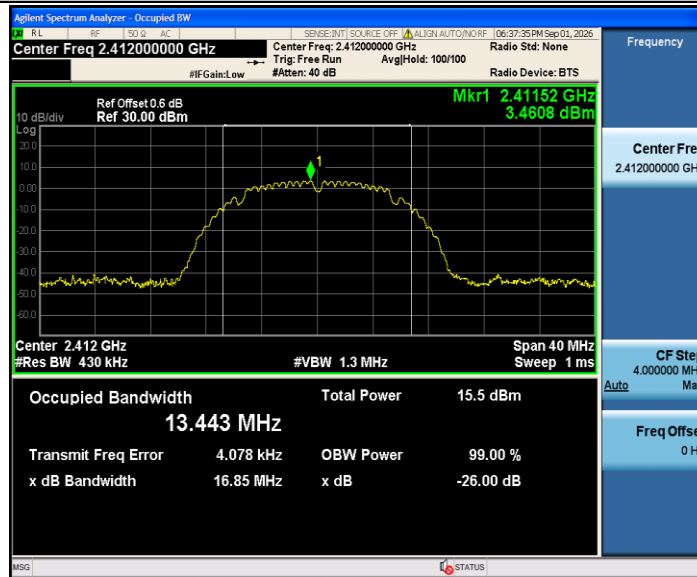
Appendix B: Occupied Channel Bandwidth

Test Result

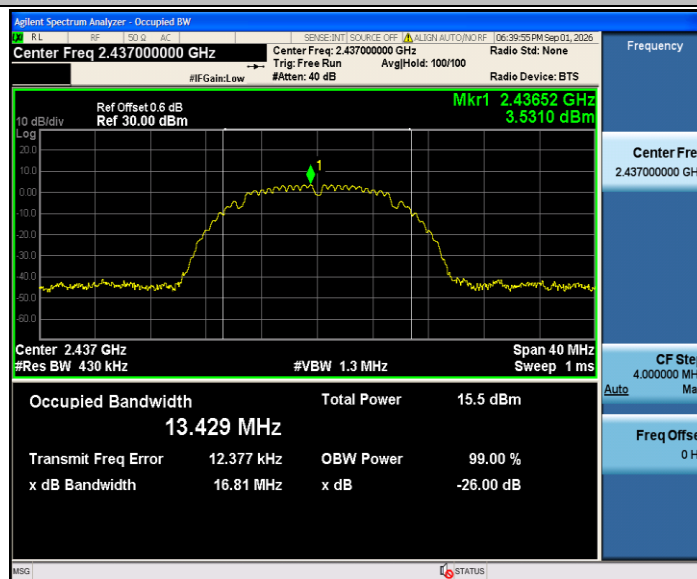
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.443	2405.2826	2418.7256	---	---
		2437	13.429	2430.2979	2443.7269	---	---
		2462	13.424	2455.3106	2468.7346	---	---
11G	Ant1	2412	16.898	2403.5655	2420.4635	---	---
		2437	16.807	2428.6300	2445.4370	---	---
		2462	16.803	2453.6282	2470.4312	---	---
11N20SISO	Ant1	2412	17.872	2403.0636	2420.9356	---	---
		2437	17.887	2428.0473	2445.9343	---	---
		2462	17.983	2453.0049	2470.9879	---	---
11N40SISO	Ant1	2422	36.114	2404.1071	2440.2211	---	---
		2437	36.075	2419.0999	2455.1749	---	---
		2452	36.097	2434.1028	2470.1998	---	---

Test Graphs

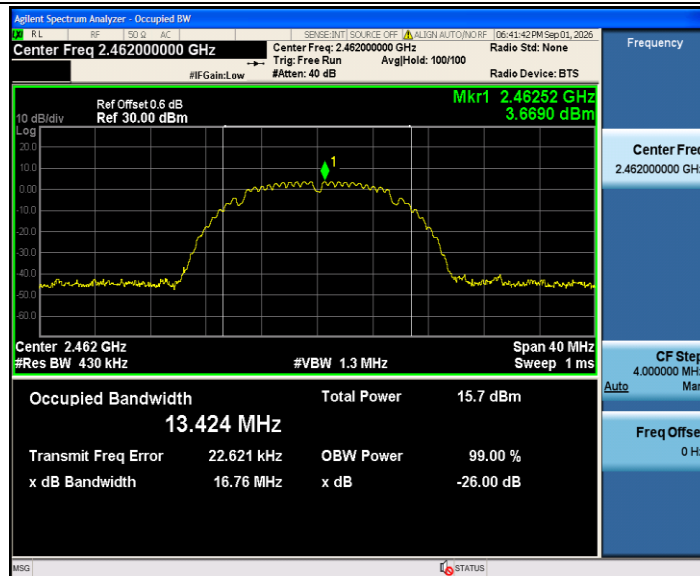
11B_Ant1_2412



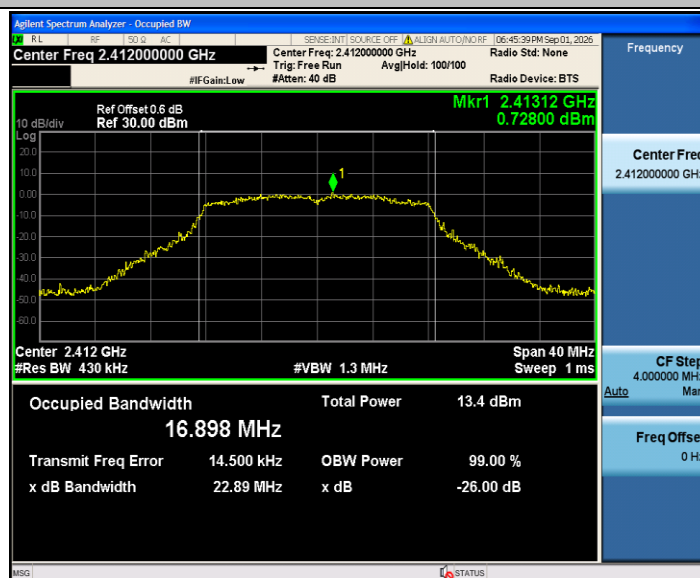
11B_Ant1_2437



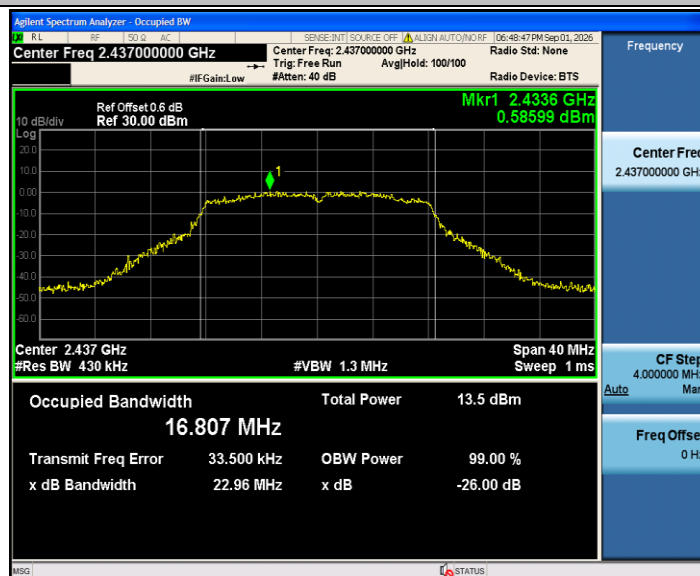
11B_Ant1_2462



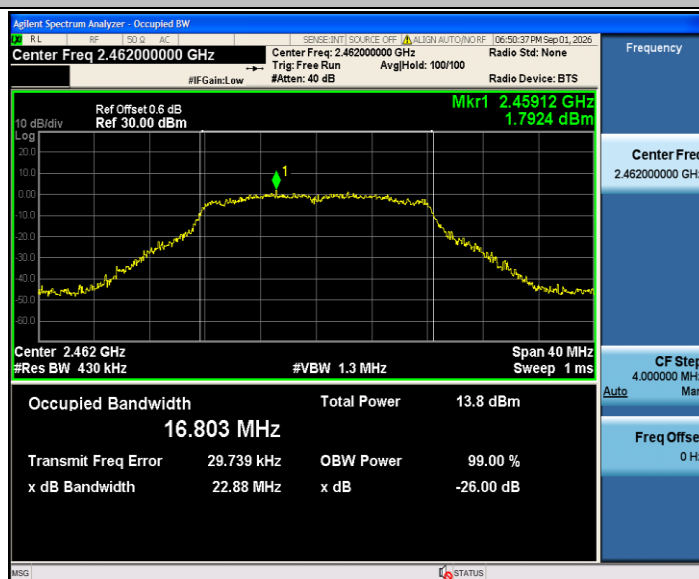
11G_Ant1_2412



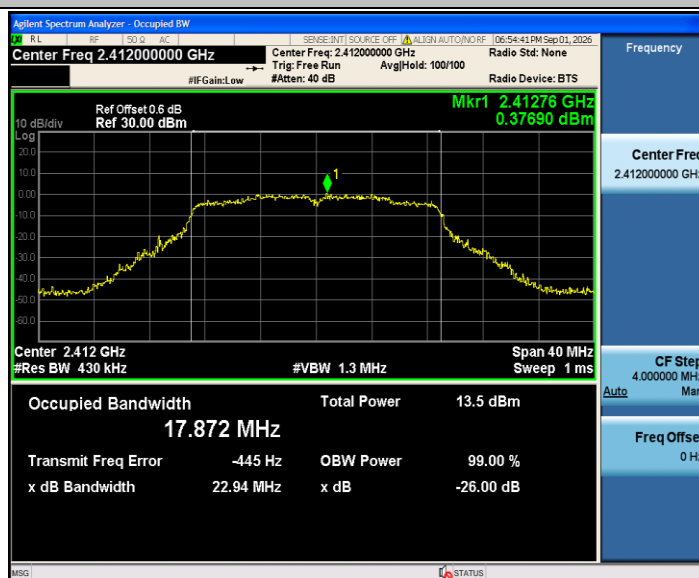
11G_Ant1_2437



11G_Ant1_2462



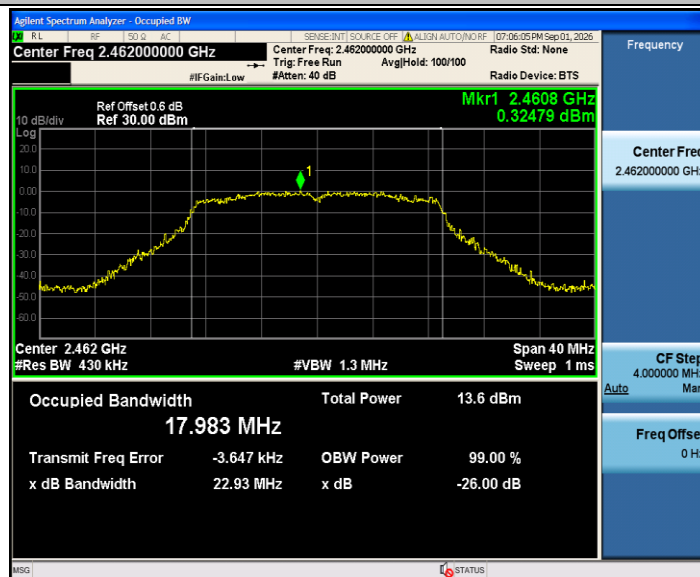
11N20SISO_Ant1_2412



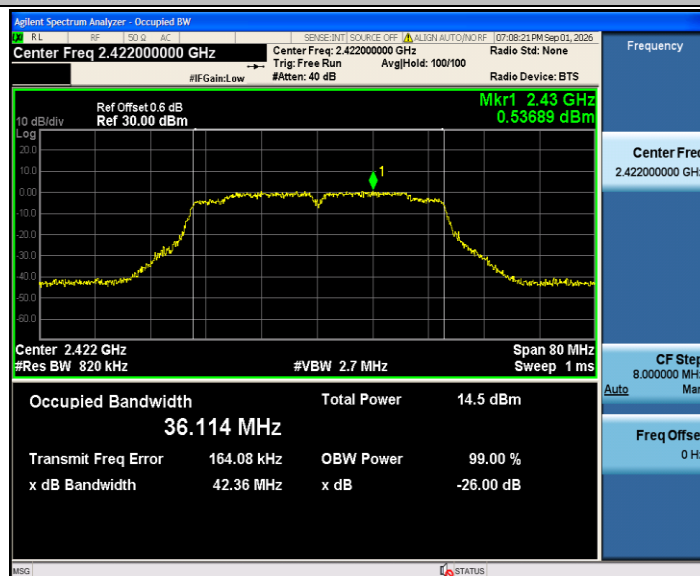
11N20SISO_Ant1_2437



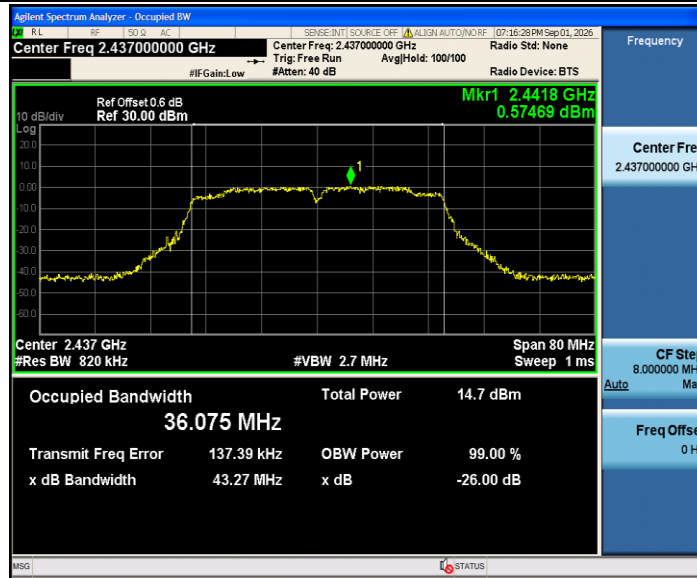
11N20SISO_Ant1_2462



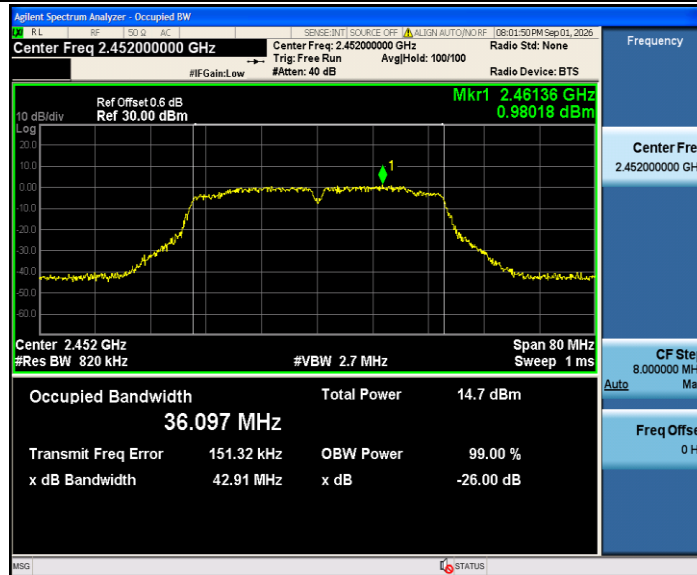
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	15.14	≤30.00	PASS
		2437	15.19	≤30.00	PASS
		2462	15.43	≤30.00	PASS
11G	Ant1	2412	15.66	≤30.00	PASS
		2437	15.91	≤30.00	PASS
		2462	15.92	≤30.00	PASS
11N20SISO	Ant1	2412	15.4	≤30.00	PASS
		2437	15.37	≤30.00	PASS
		2462	15.62	≤30.00	PASS
11N40SISO	Ant1	2422	15.70	≤30.00	PASS
		2437	15.75	≤30.00	PASS
		2452	15.84	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

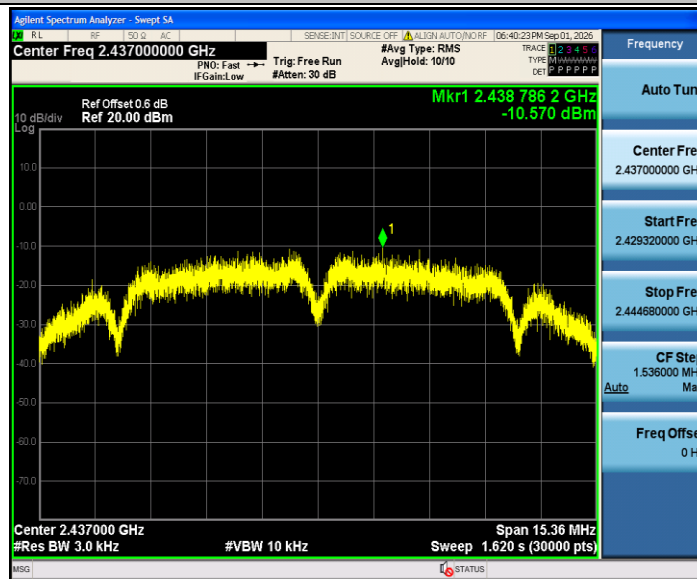
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.91	≤8.00	PASS
		2437	-10.57	≤8.00	PASS
		2462	-10.42	≤8.00	PASS
11G	Ant1	2412	-16.75	≤8.00	PASS
		2437	-17.81	≤8.00	PASS
		2462	-17.31	≤8.00	PASS
11N20SISO	Ant1	2412	-17.71	≤8.00	PASS
		2437	-17.47	≤8.00	PASS
		2462	-16.44	≤8.00	PASS
11N40SISO	Ant1	2422	-20.34	≤8.00	PASS
		2437	-19.03	≤8.00	PASS
		2452	-18.94	≤8.00	PASS

Test Graphs

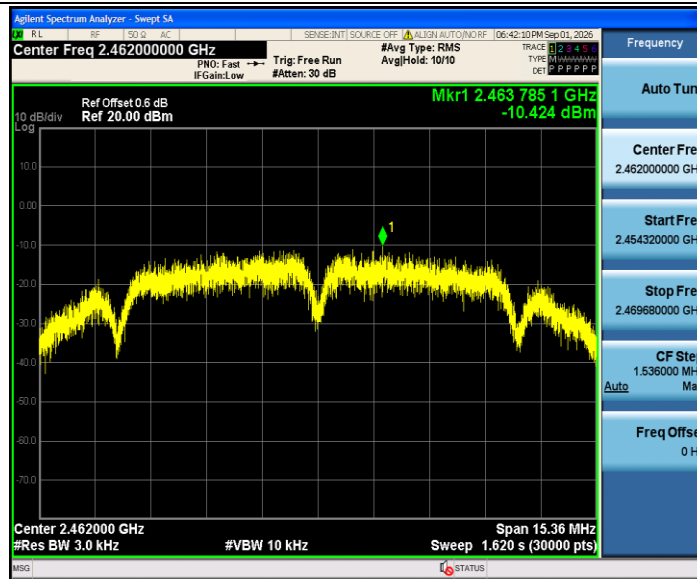
11B_Ant1_2412



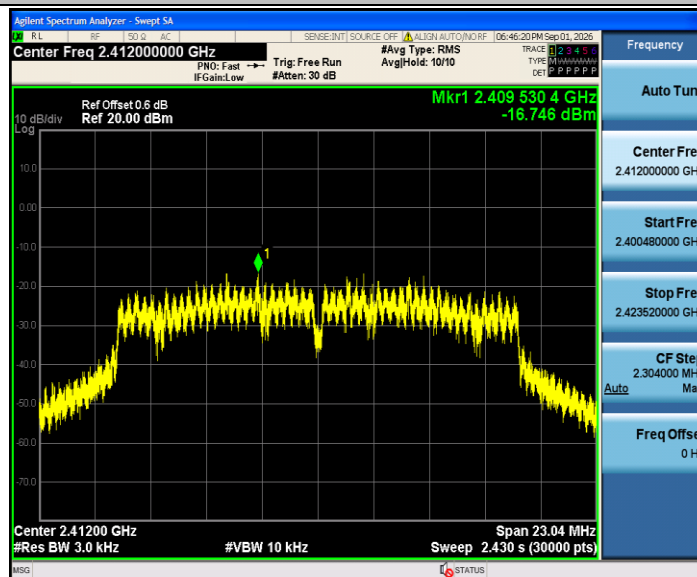
11B_Ant1_2437



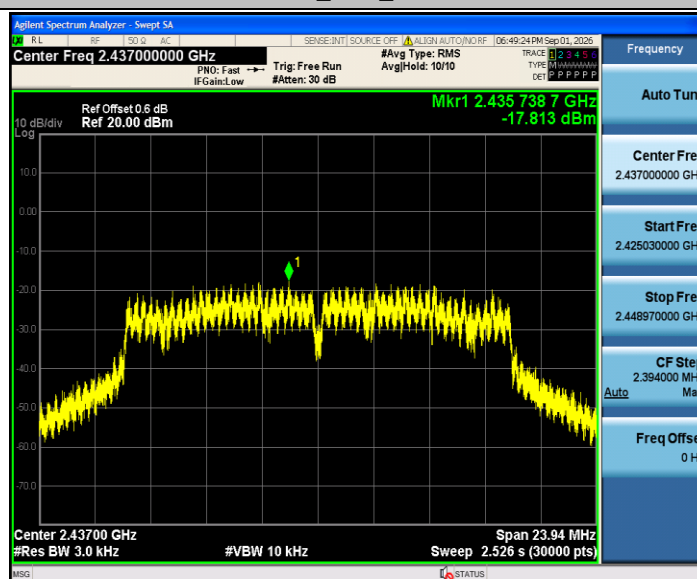
11B_Ant1_2462



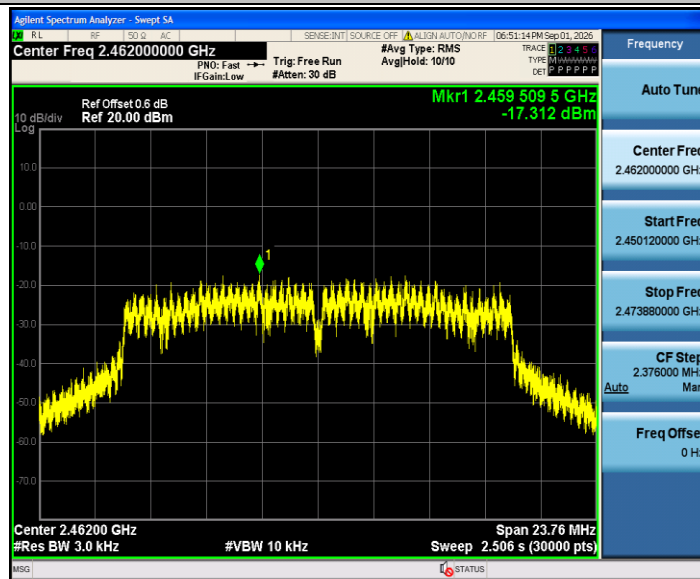
11G_Ant1_2412



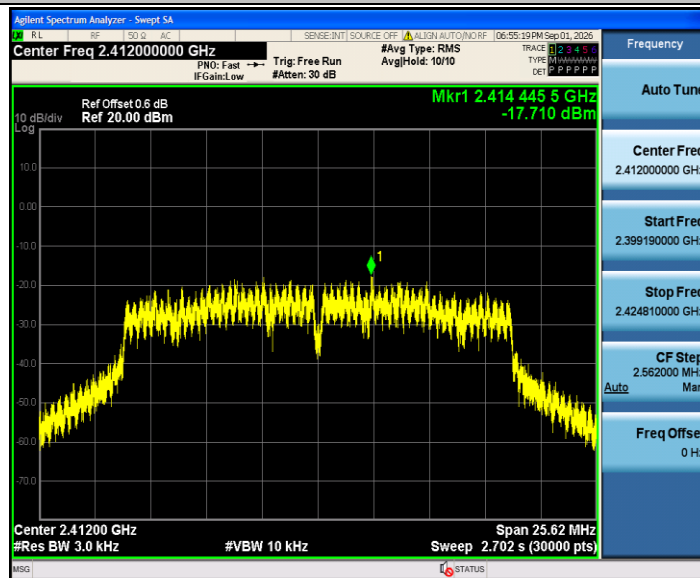
11G_Ant1_2437



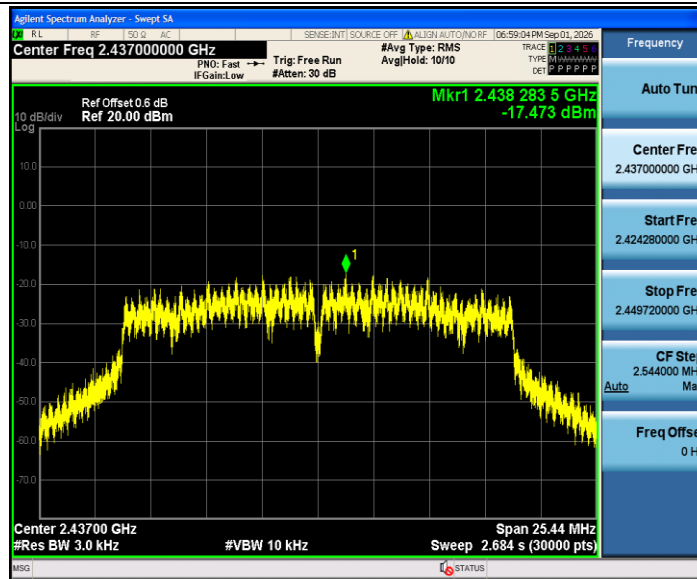
11G_Ant1_2462



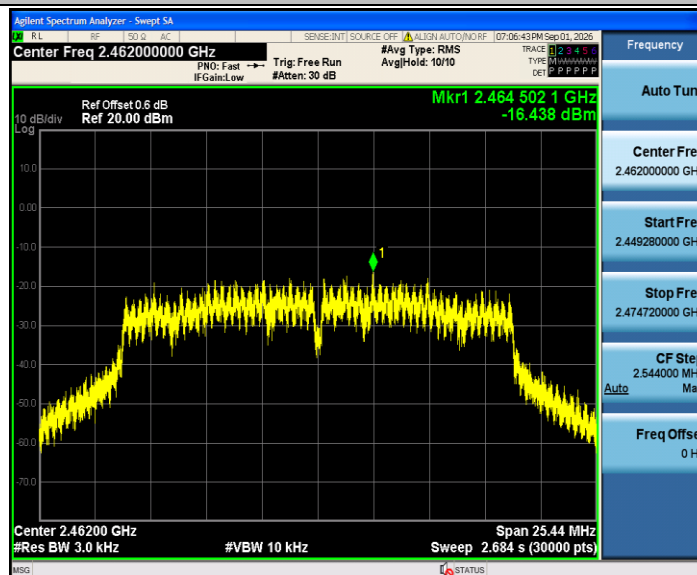
11N20SISO_Ant1_2412



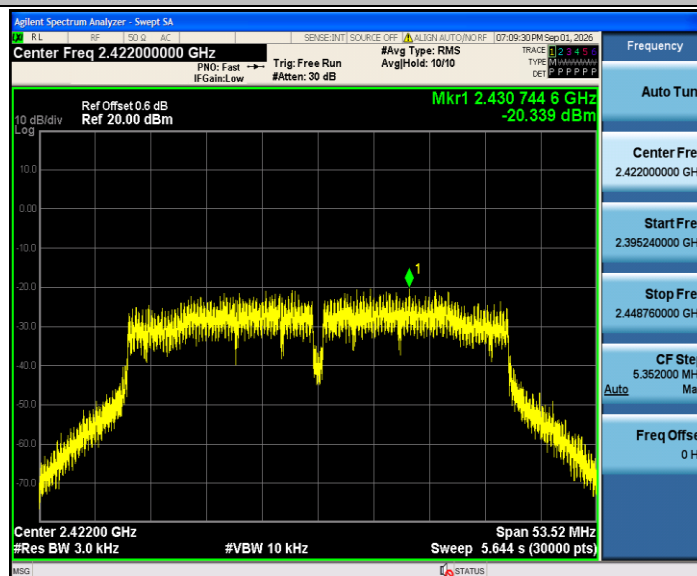
11N20SISO_Ant1_2437



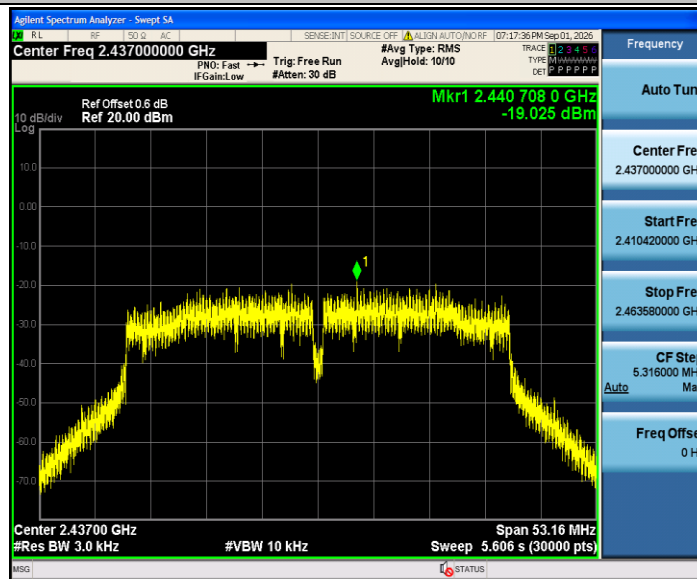
11N20SISO_Ant1_2462



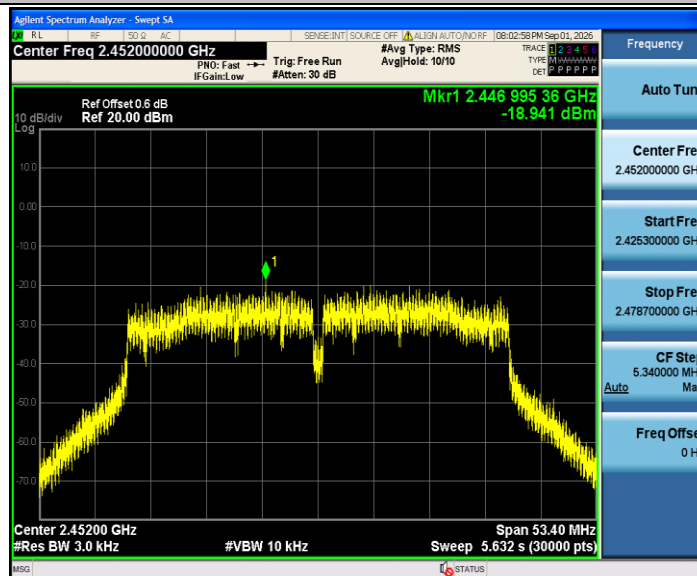
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



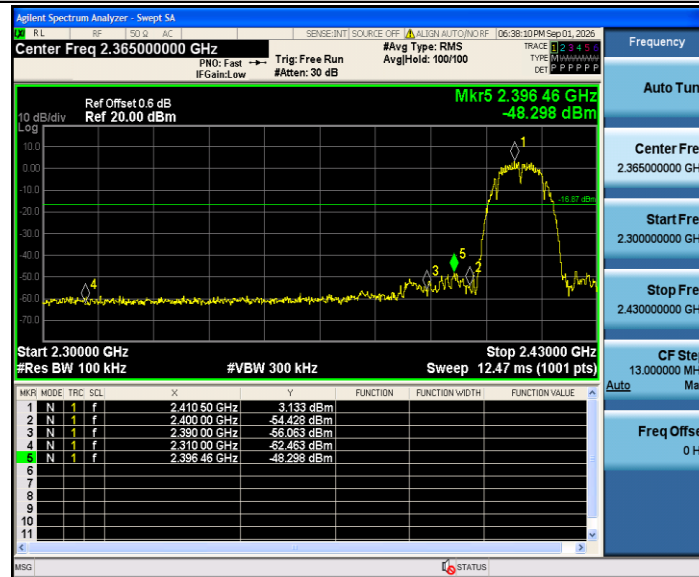
Appendix E: Band edge measurements

Test Result

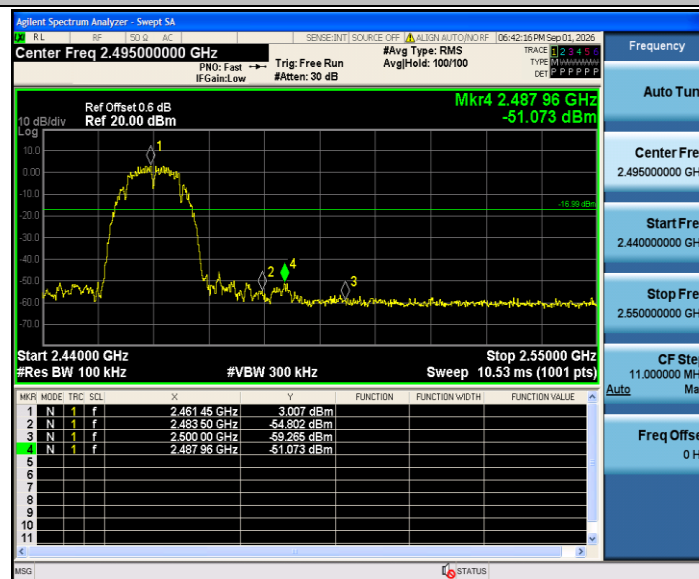
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.13	-48.3	≤-16.87	PASS
		High	2462	3.01	-51.07	≤-16.99	PASS
11G	Ant1	Low	2412	-2.05	-33.95	≤-22.05	PASS
		High	2462	-1.60	-58.22	≤-21.6	PASS
11N20SISO	Ant1	Low	2412	-2.10	-34.07	≤-22.1	PASS
		High	2462	-1.65	-57.85	≤-21.65	PASS
11N40SISO	Ant1	Low	2422	-5.19	-34.25	≤-25.19	PASS
		High	2452	-4.93	-55.3	≤-24.93	PASS

Test Graphs

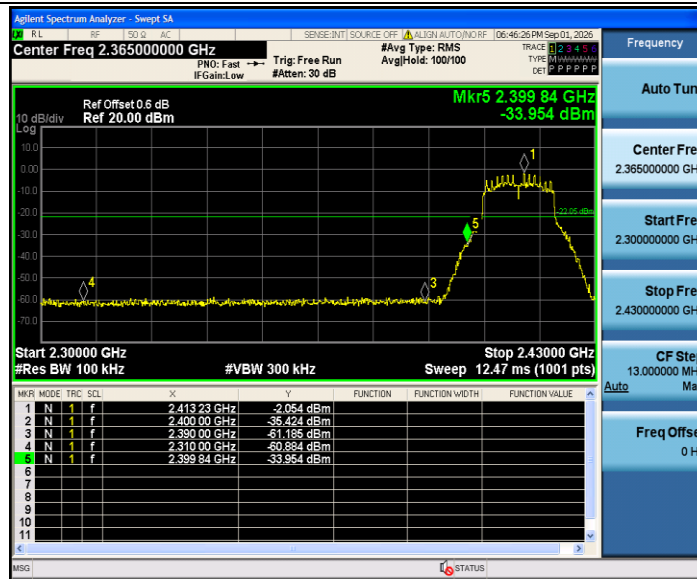
11B_Ant1_Low_2412



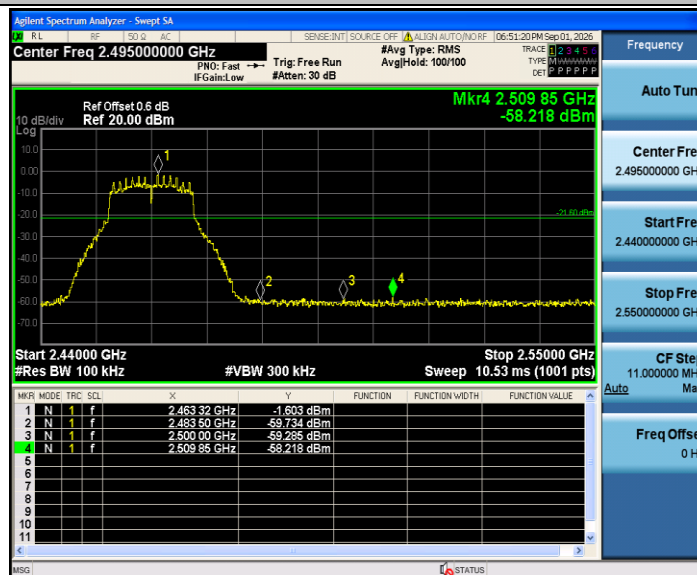
11B_Ant1_High_2462



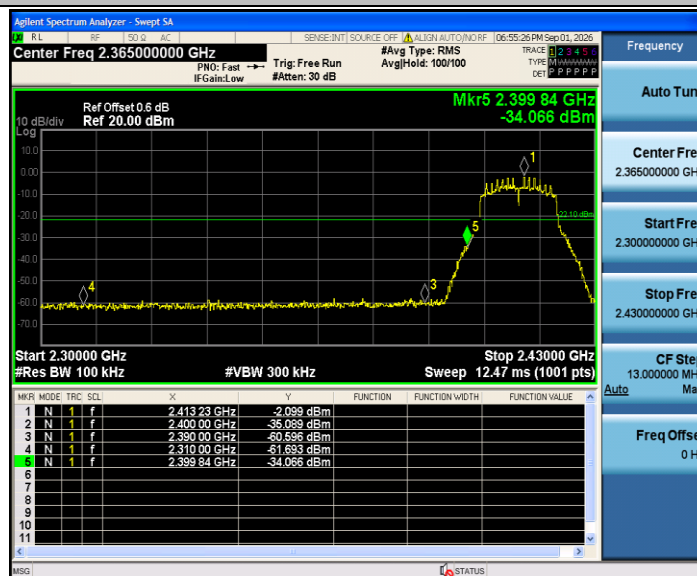
11G_Ant1_Low_2412



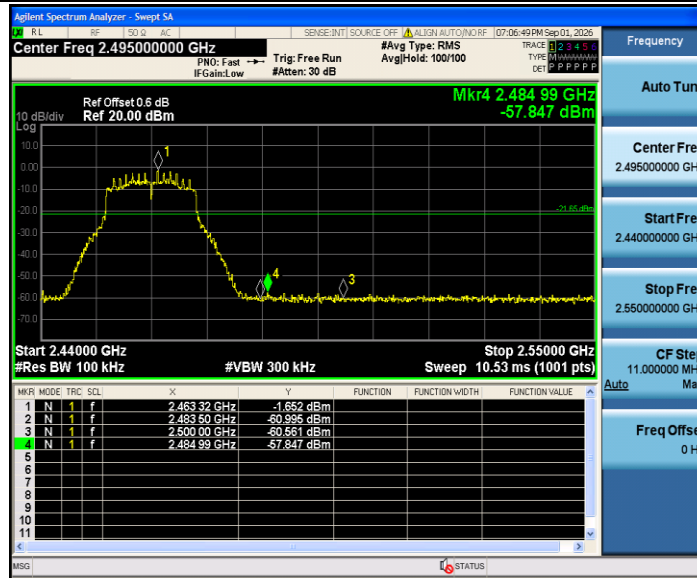
11G_Ant1_High_2462



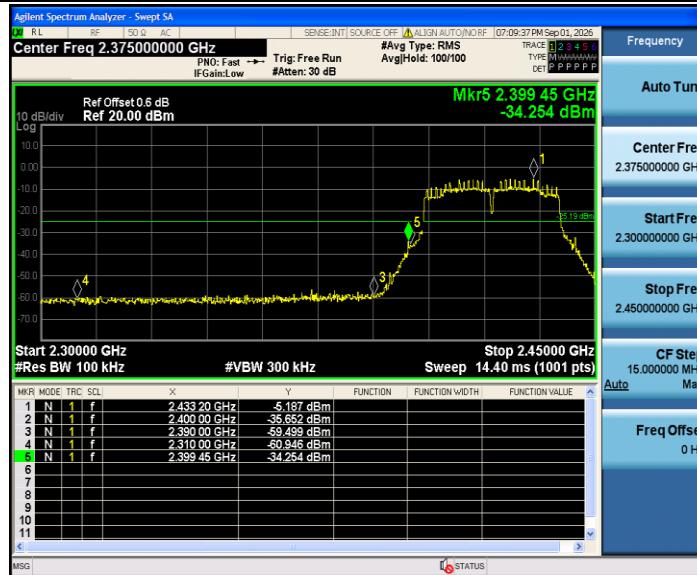
11N20SISO_Ant1_Low_2412



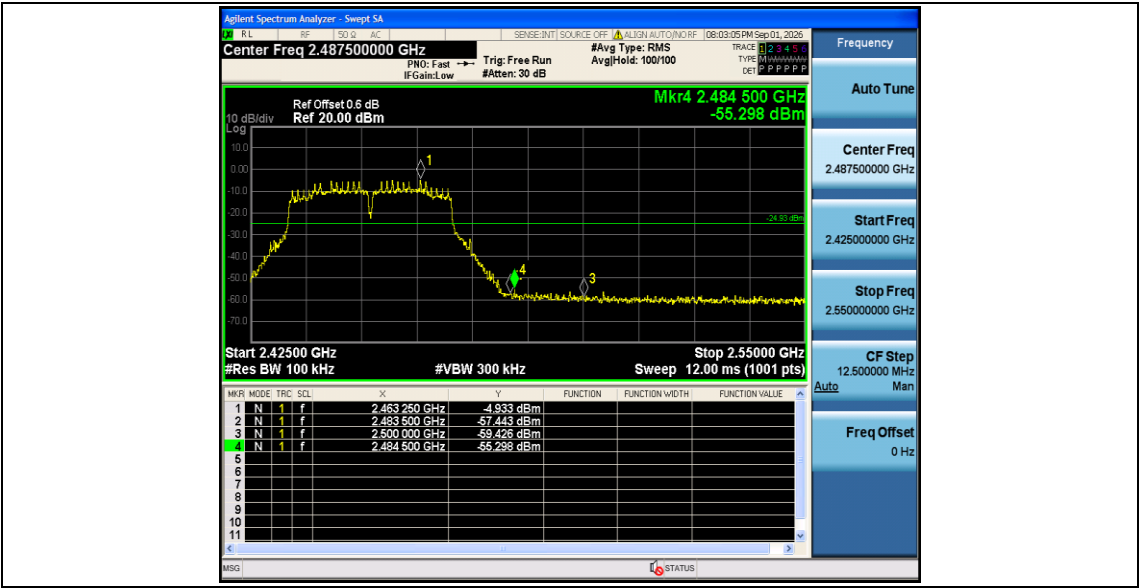
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

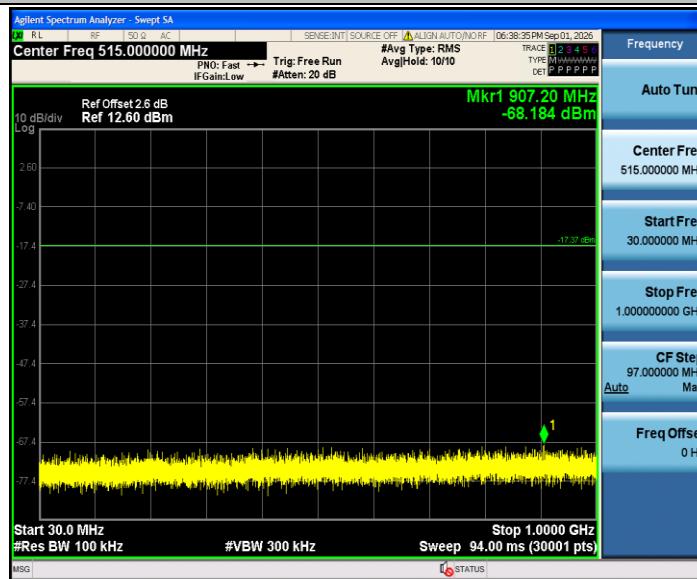
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.63	2.63	---	PASS
			30~1000	2.63	-68.18	≤-17.37	PASS
			1000~26500	2.63	-46.5	≤-17.37	PASS
		2437	Reference	2.50	2.50	---	PASS
			30~1000	2.50	-68.42	≤-17.5	PASS
			1000~26500	2.50	-44.82	≤-17.5	PASS
		2462	Reference	3.36	3.36	---	PASS
			30~1000	3.36	-68.41	≤-16.64	PASS
			1000~26500	3.36	-46.2	≤-16.64	PASS
11G	Ant1	2412	Reference	-2.29	-2.29	---	PASS
			30~1000	-2.29	-67.95	≤-22.29	PASS
			1000~26500	-2.29	-46.73	≤-22.29	PASS
		2437	Reference	-2.34	-2.34	---	PASS
			30~1000	-2.34	-67.79	≤-22.34	PASS
			1000~26500	-2.34	-46.26	≤-22.34	PASS
		2462	Reference	-1.95	-1.95	---	PASS
			30~1000	-1.95	-67.87	≤-21.95	PASS
			1000~26500	-1.95	-46.51	≤-21.95	PASS
11N20SISO	Ant1	2412	Reference	-3.56	-3.56	---	PASS
			30~1000	-3.56	-68.01	≤-23.56	PASS
			1000~26500	-3.56	-46.5	≤-23.56	PASS
		2437	Reference	-3.24	-3.24	---	PASS
			30~1000	-3.24	-68.04	≤-23.24	PASS
			1000~26500	-3.24	-46.08	≤-23.24	PASS
		2462	Reference	-2.17	-2.17	---	PASS
			30~1000	-2.17	-67.9	≤-22.17	PASS
			1000~26500	-2.17	-45.26	≤-22.17	PASS
11N40SISO	Ant1	2422	Reference	-5.86	-5.86	---	PASS
			30~1000	-5.86	-68.85	≤-25.86	PASS
			1000~26500	-5.86	-46.25	≤-25.86	PASS
		2437	Reference	-5.71	-5.71	---	PASS
			30~1000	-5.71	-68.07	≤-25.71	PASS
			1000~26500	-5.71	-46.13	≤-25.71	PASS
		2452	Reference	-5.28	-5.28	---	PASS
			30~1000	-5.28	-68.14	≤-25.28	PASS
			1000~26500	-5.28	-46.02	≤-25.28	PASS

Test Graphs

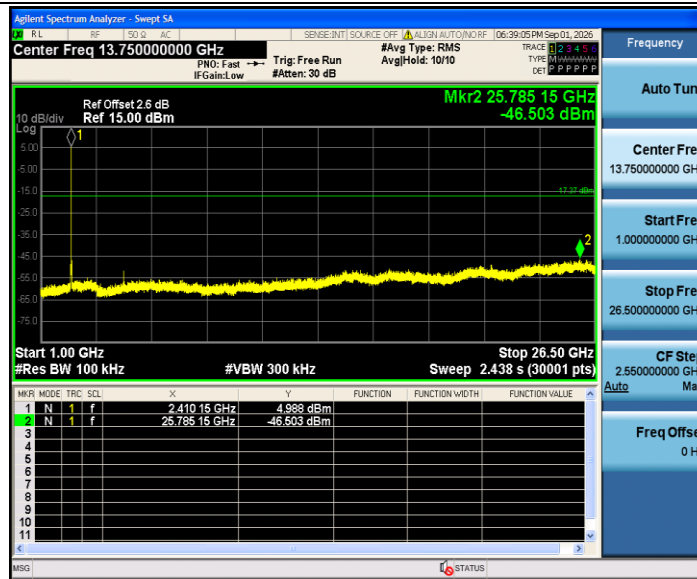
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



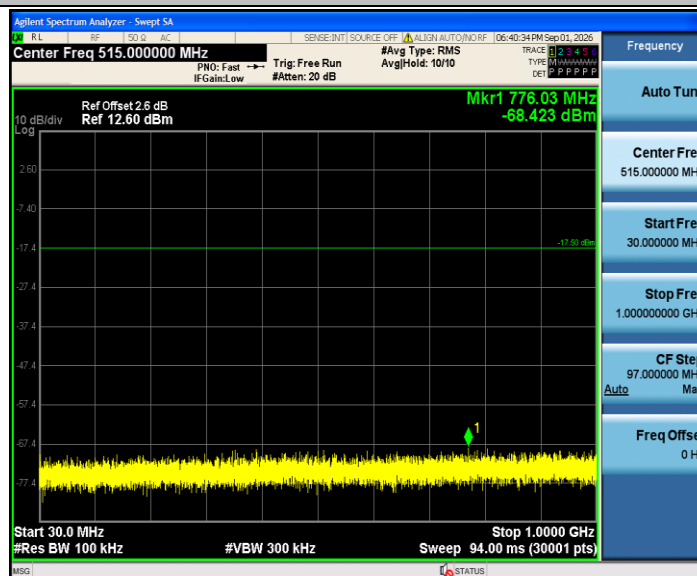
11B_Ant1_2412_1000~26500



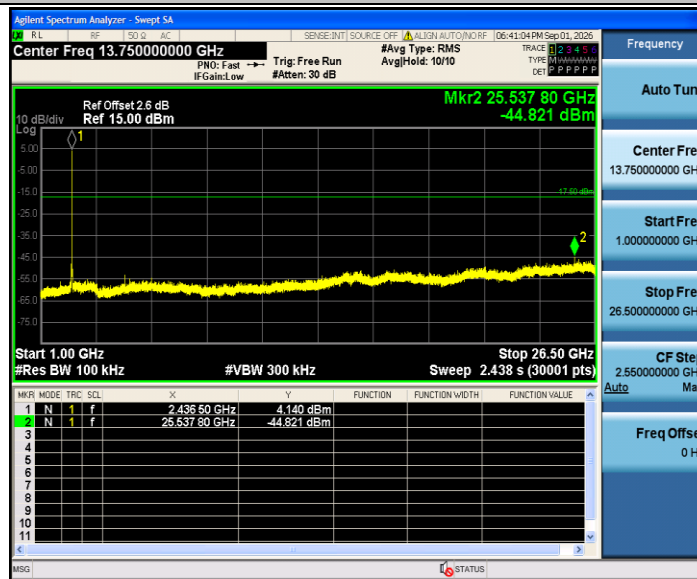
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



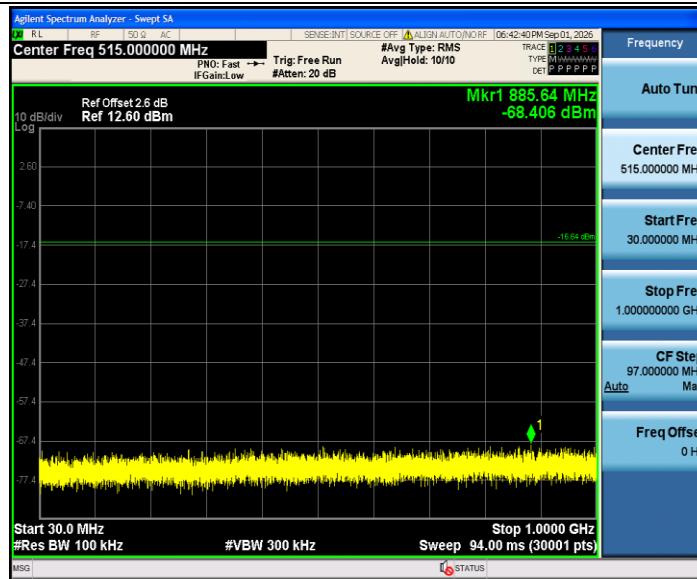
11B_Ant1_2437_1000~26500



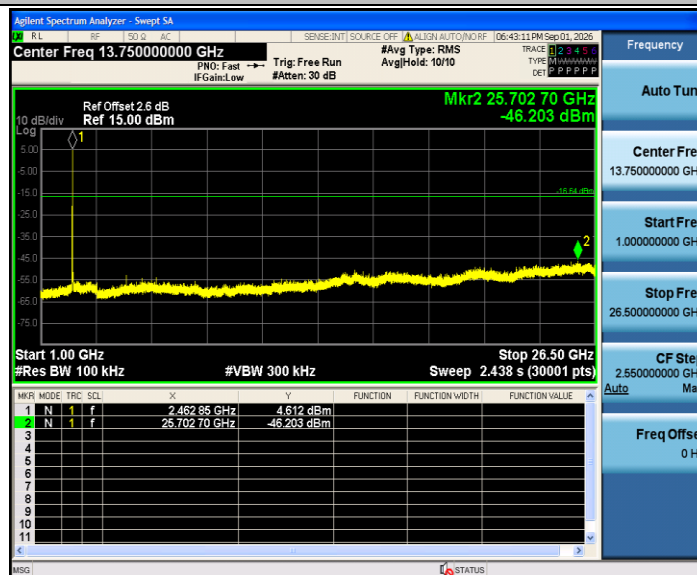
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



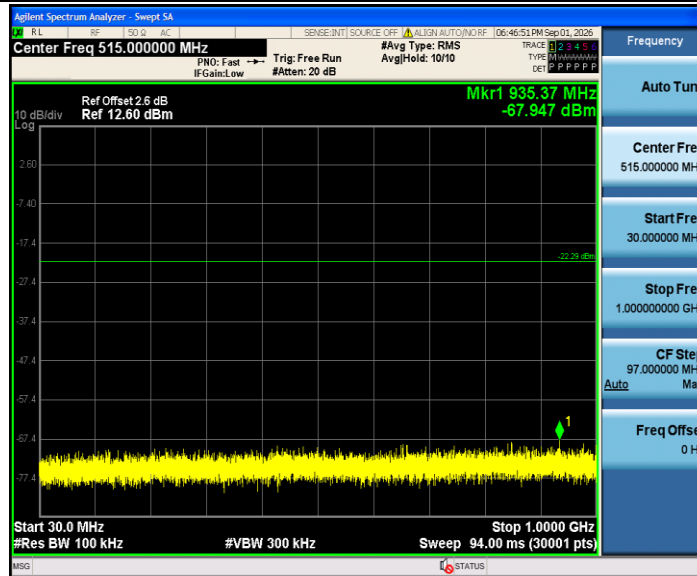
11B_Ant1_2462_1000~26500



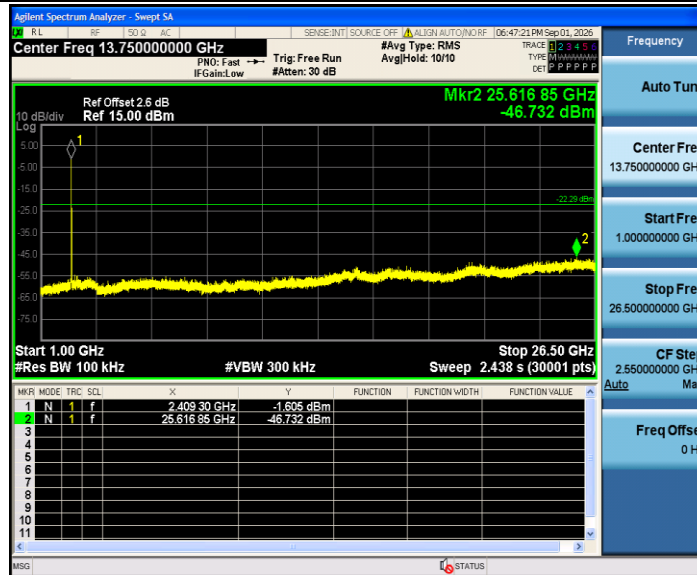
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



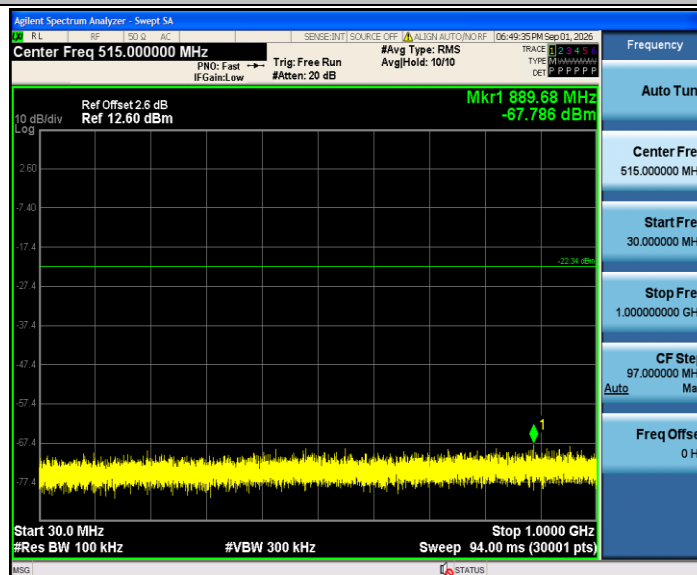
11G_Ant1_2412_1000~26500



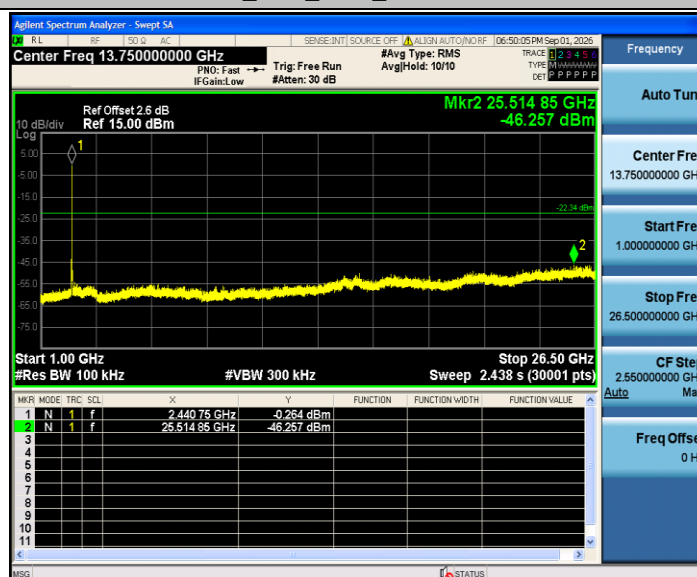
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



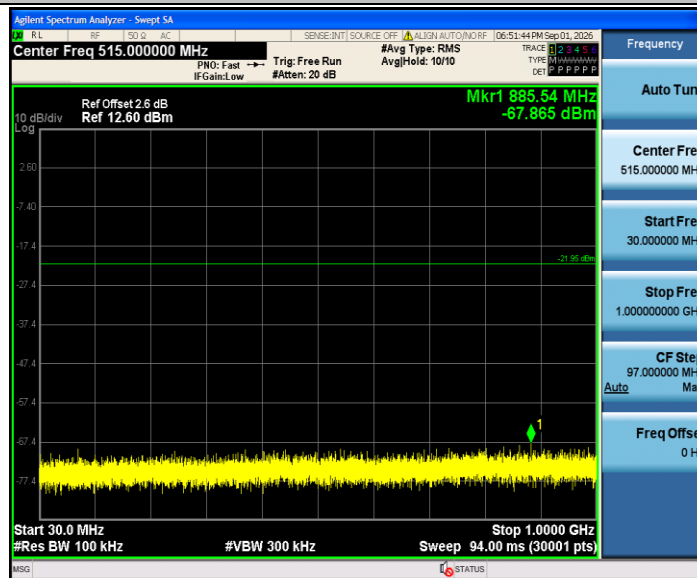
11G_Ant1_2437_1000~26500



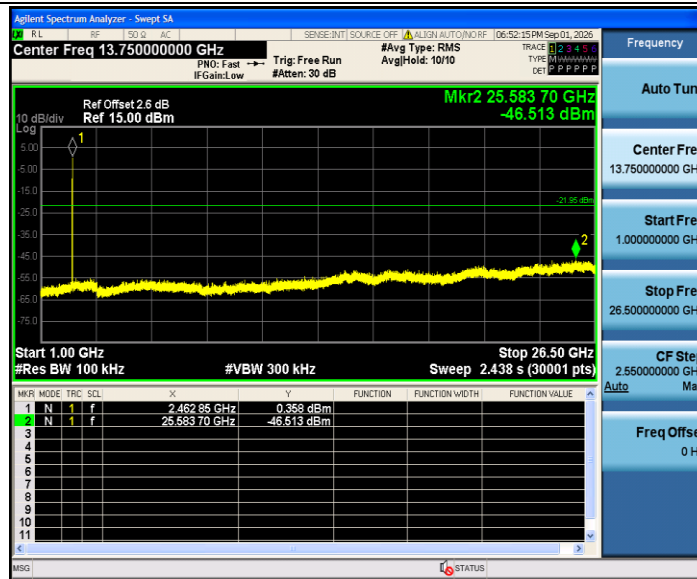
11G_Ant1_2462_0~Reference



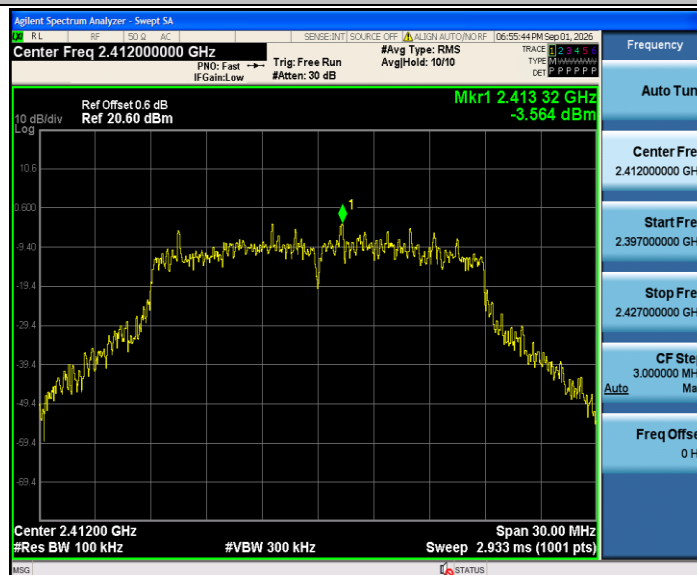
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

