

FCC Appendix RF Test Data for 2.4GWIFI ANT1

FCC ID : 2BSI8-WR300K

Company : Shenzhen BLIY Photoelectric Technology Co., Ltd.

EUT : Wireless Router

Model Number : WR300K

Report No. : CTA25090800101

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	8.560	2407.960	2416.520	0.5	PASS
		2437	8.520	2432.520	2441.040	0.5	PASS
		2462	9.080	2457.480	2466.560	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.680	2429.080	2444.760	0.5	PASS
		2462	16.120	2454.040	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.200	2404.440	2420.640	0.5	PASS
		2437	16.800	2428.400	2445.200	0.5	PASS
		2462	16.800	2453.520	2470.320	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.480	2439.920	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.760	2433.840	2469.600	0.5	PASS
11AX20SISO	Ant1	2412	16.080	2404.440	2420.520	0.5	PASS
		2437	16.680	2428.400	2445.080	0.5	PASS
		2462	16.800	2453.560	2470.360	0.5	PASS
11AX40SISO	Ant1	2422	35.440	2404.480	2439.920	0.5	PASS
		2437	35.200	2419.400	2454.600	0.5	PASS
		2452	35.600	2434.000	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



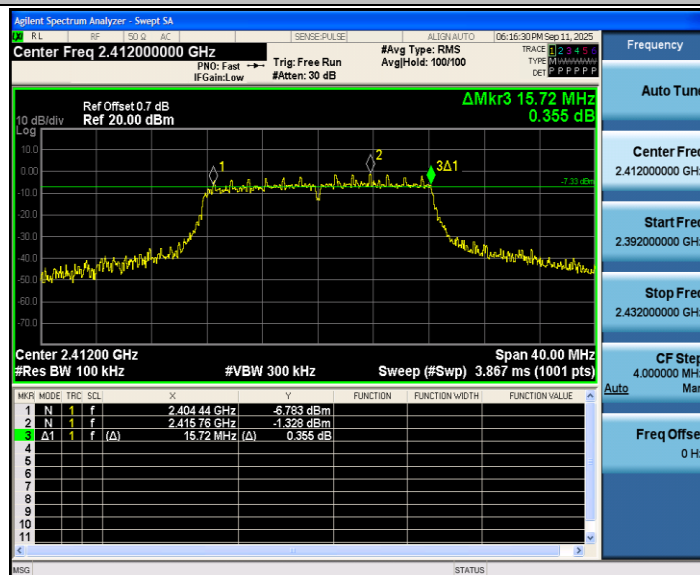
11B_Ant1_2437



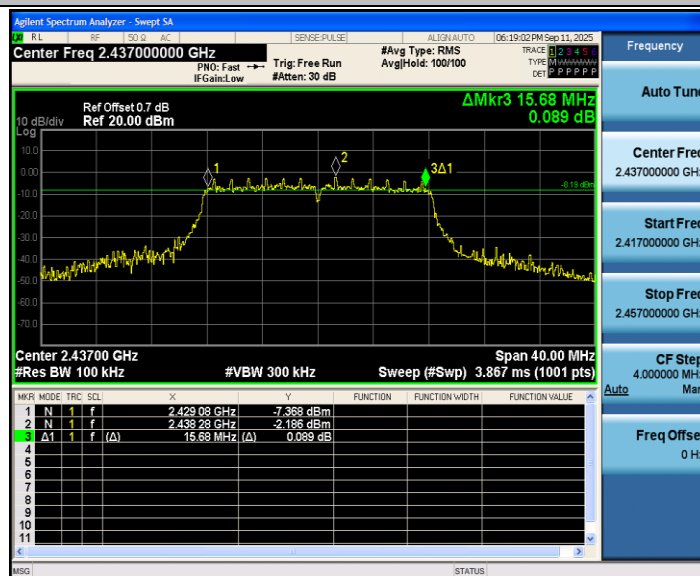
11B_Ant1_2462



11G_Ant1_2412



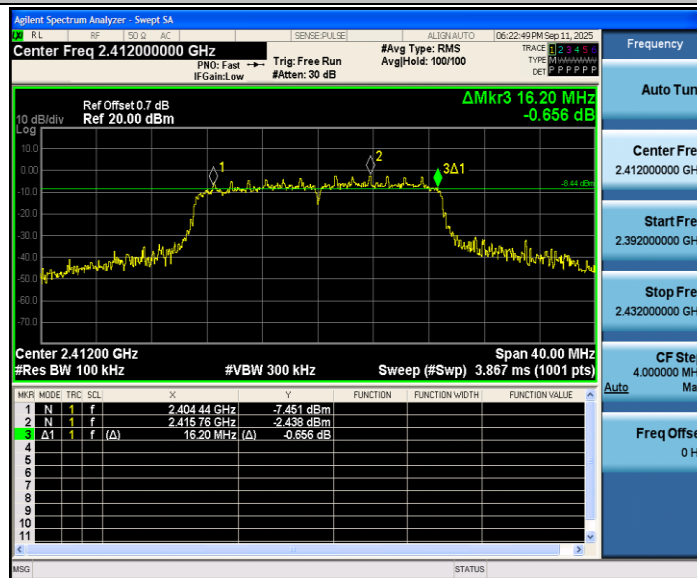
11G_Ant1_2437



11G_Ant1_2462



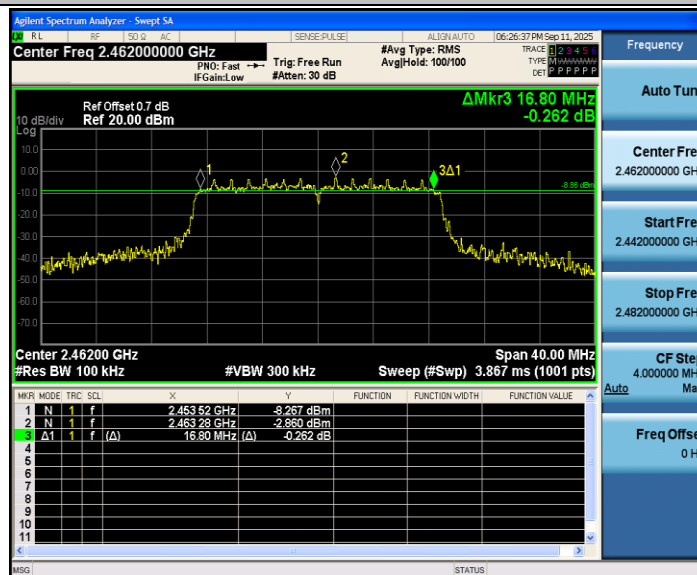
11N20SISO_Ant1_2412



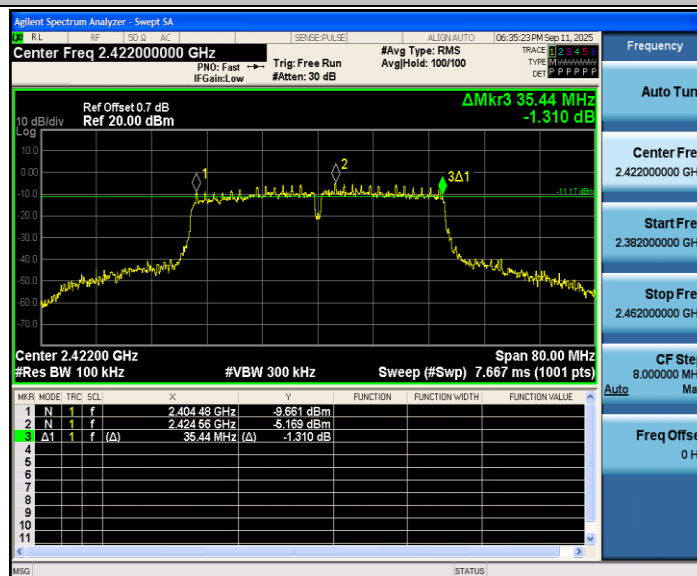
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



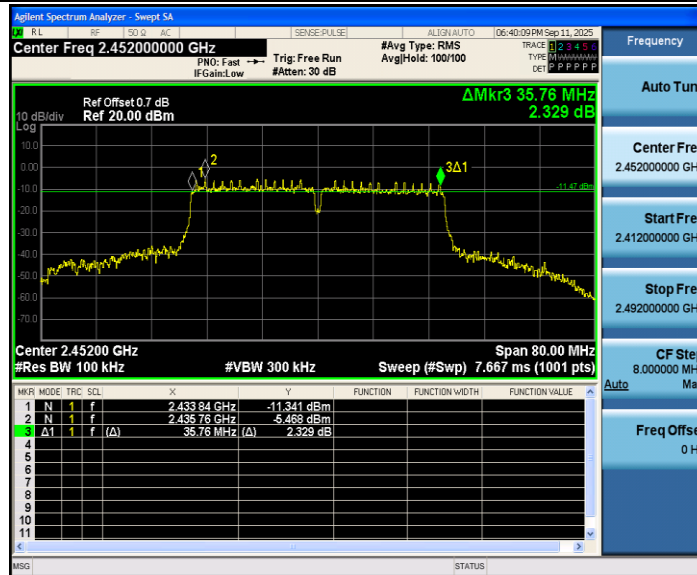
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



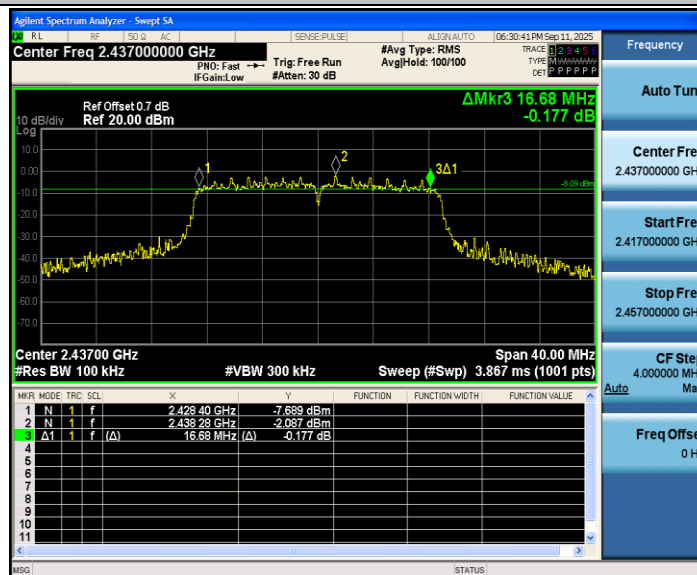
11N40SISO_Ant1_2452



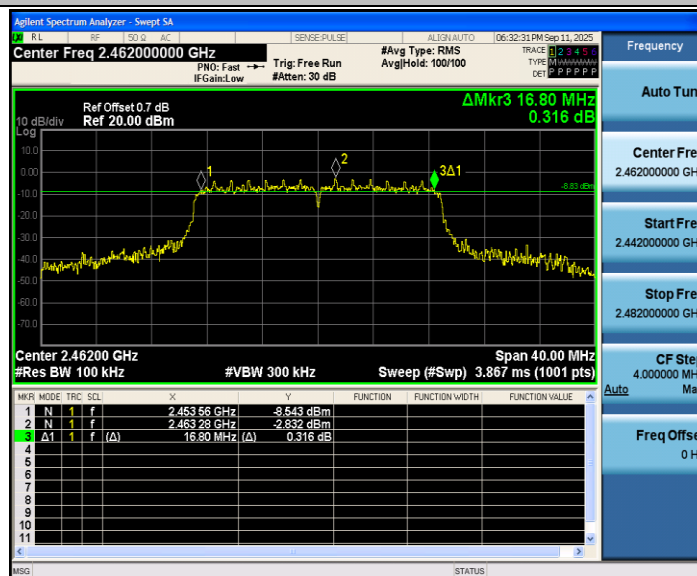
11AX20SISO_Ant1_2412



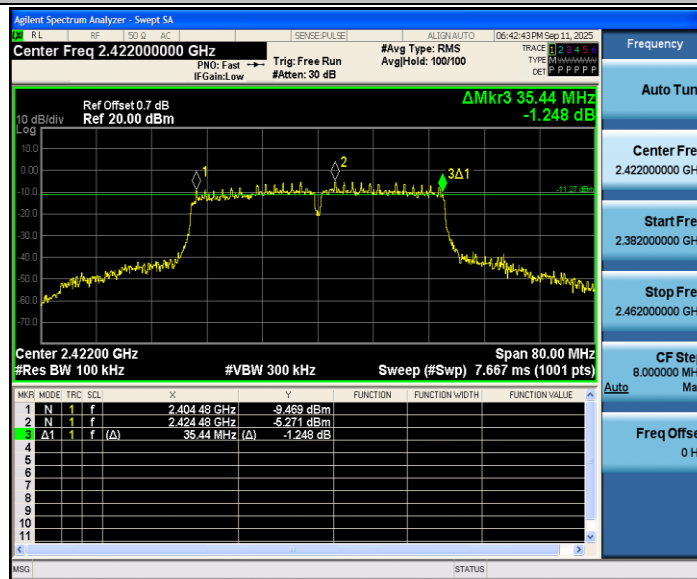
11AX20SISO_Ant1_2437



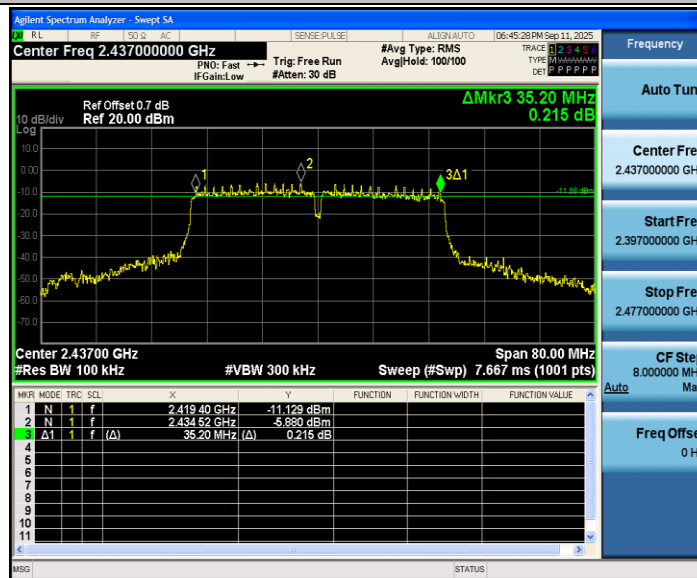
11AX20SISO_Ant1_2462



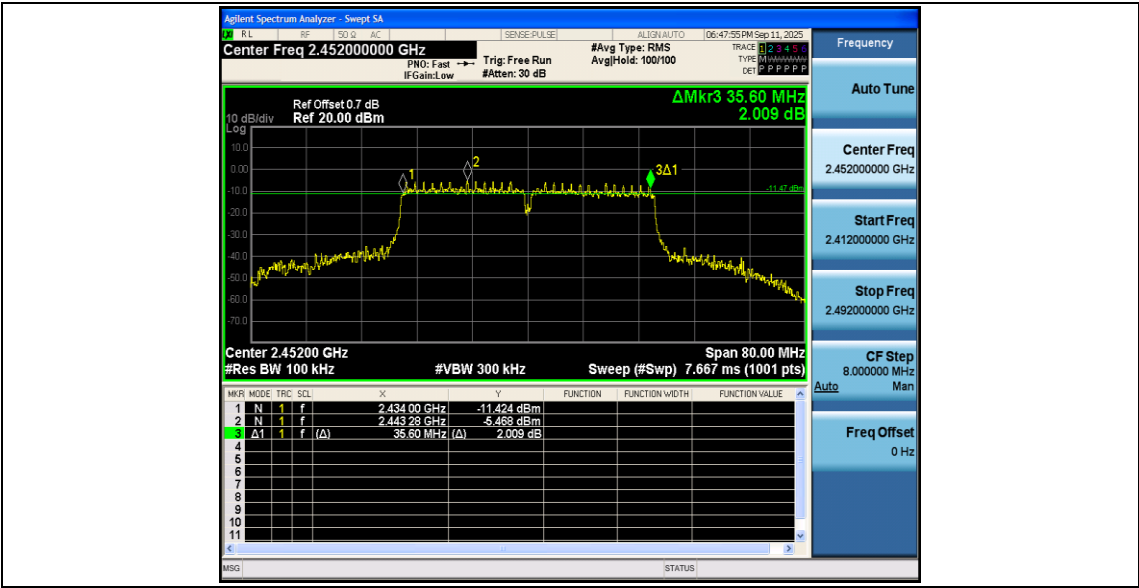
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



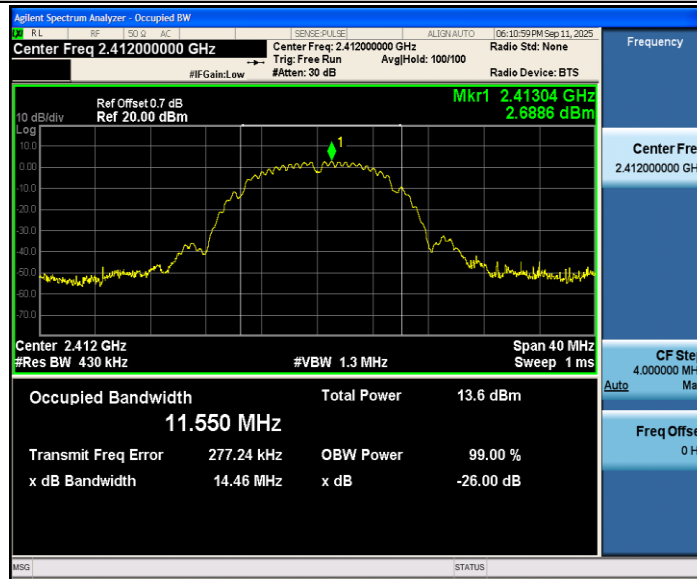
Appendix B: Occupied Channel Bandwidth

Test Result

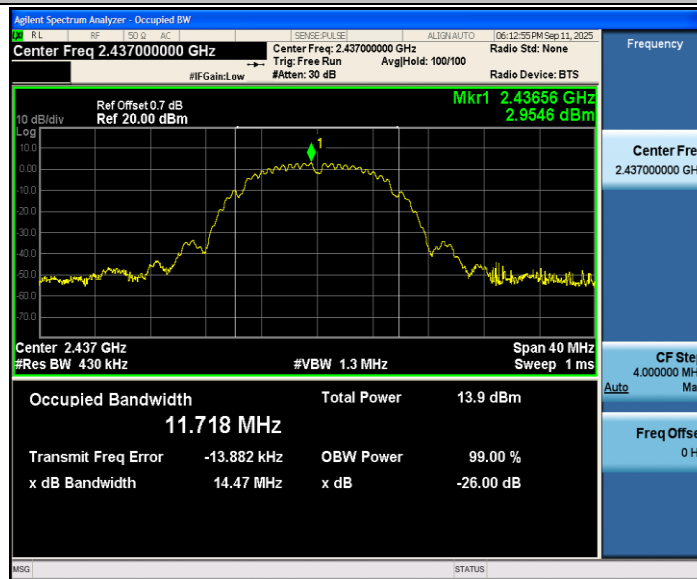
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.550	2406.5022	2418.0522	---	---
		2437	11.718	2431.1271	2442.8451	---	---
		2462	11.816	2456.1416	2467.9576	---	---
11G	Ant1	2412	16.701	2403.8006	2420.5016	---	---
		2437	16.713	2428.6399	2445.3529	---	---
		2462	16.723	2453.6647	2470.3877	---	---
11N20SISO	Ant1	2412	17.610	2403.3497	2420.9597	---	---
		2437	17.615	2428.1974	2445.8124	---	---
		2462	17.633	2453.2379	2470.8709	---	---
11N40SISO	Ant1	2422	36.105	2404.1766	2440.2816	---	---
		2437	36.239	2418.8705	2455.1095	---	---
		2452	36.333	2433.8239	2470.1569	---	---
11AX20SISO	Ant1	2412	17.626	2403.3173	2420.9433	---	---
		2437	17.597	2428.2022	2445.7992	---	---
		2462	17.705	2453.1914	2470.8964	---	---
11AX40SISO	Ant1	2422	36.080	2404.1627	2440.2427	---	---
		2437	36.202	2418.8905	2455.0925	---	---
		2452	36.418	2433.7934	2470.2114	---	---

Test Graphs

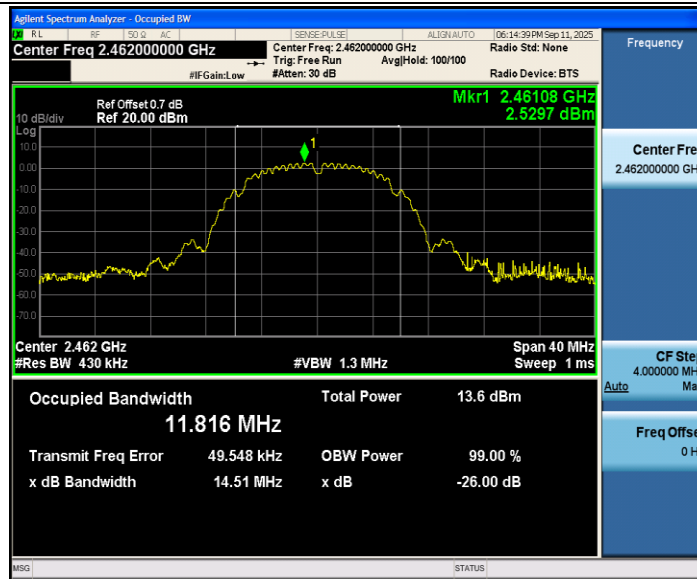
11B_Ant1_2412



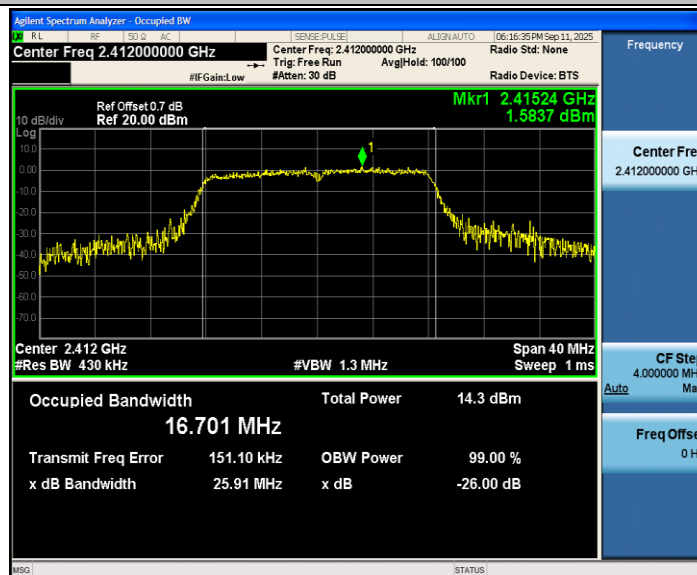
11B_Ant1_2437



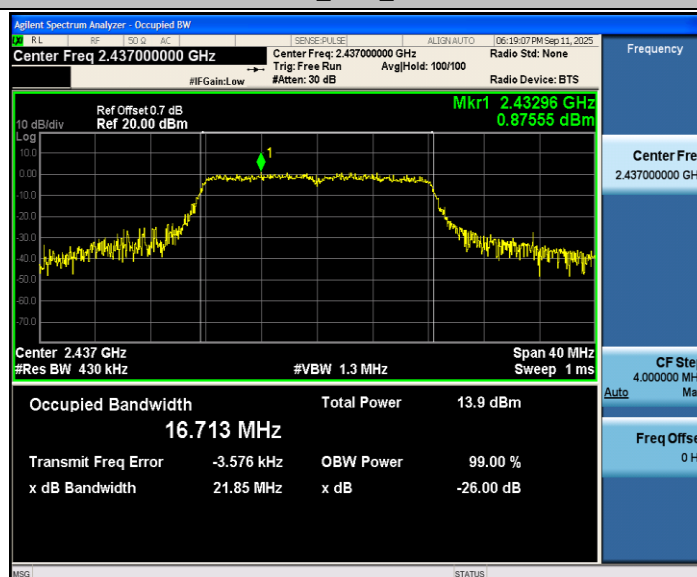
11B_Ant1_2462



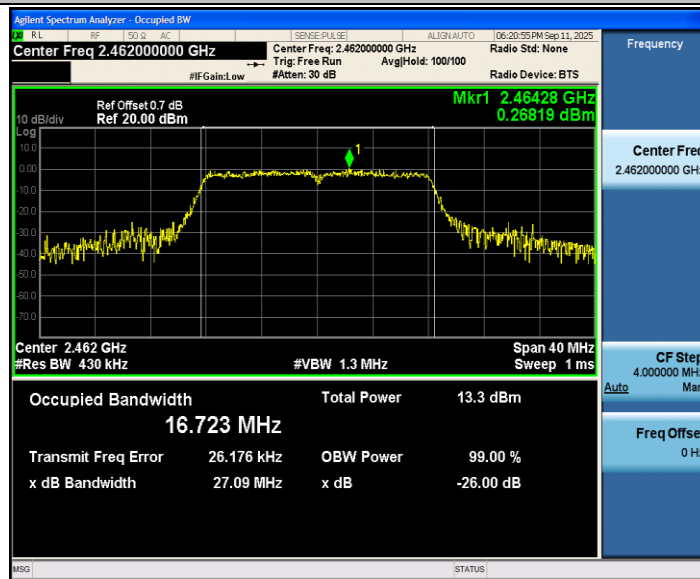
11G_Ant1_2412



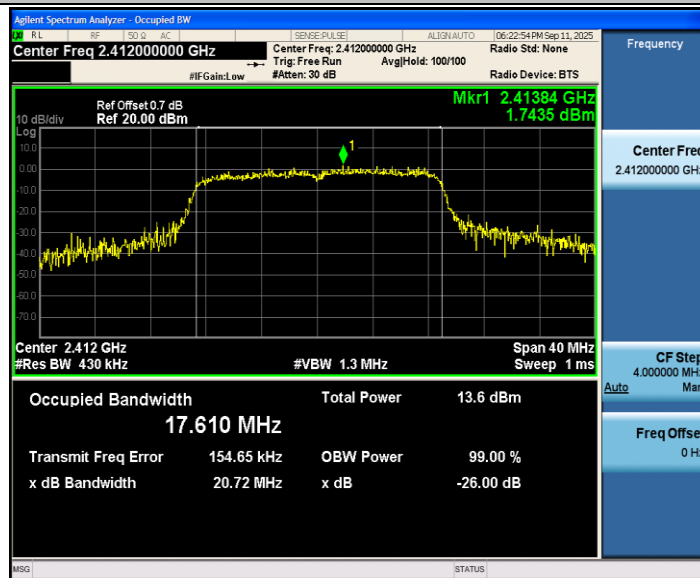
11G_Ant1_2437



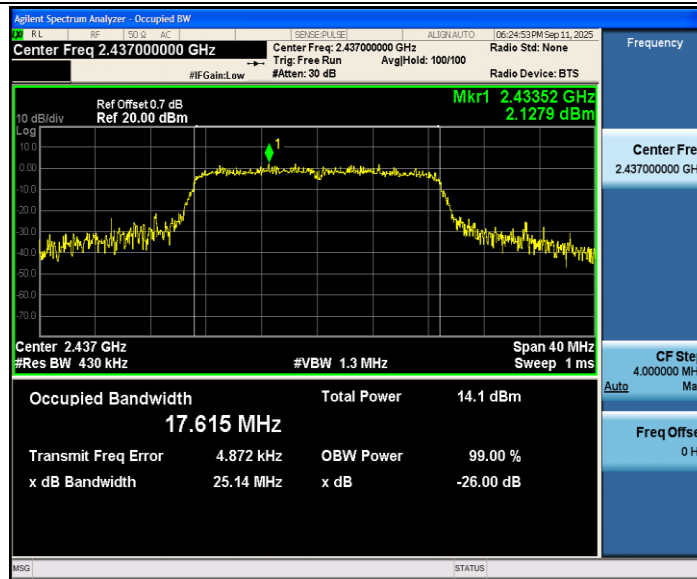
11G_Ant1_2462



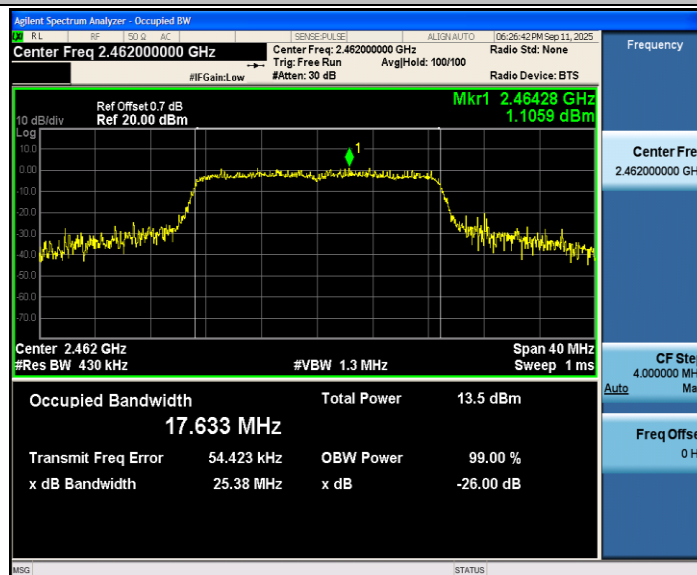
11N20SISO_Ant1_2412



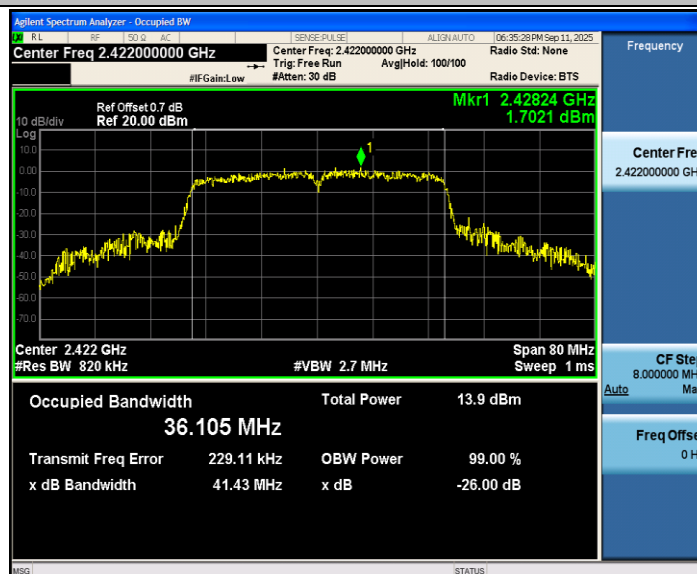
11N20SISO_Ant1_2437



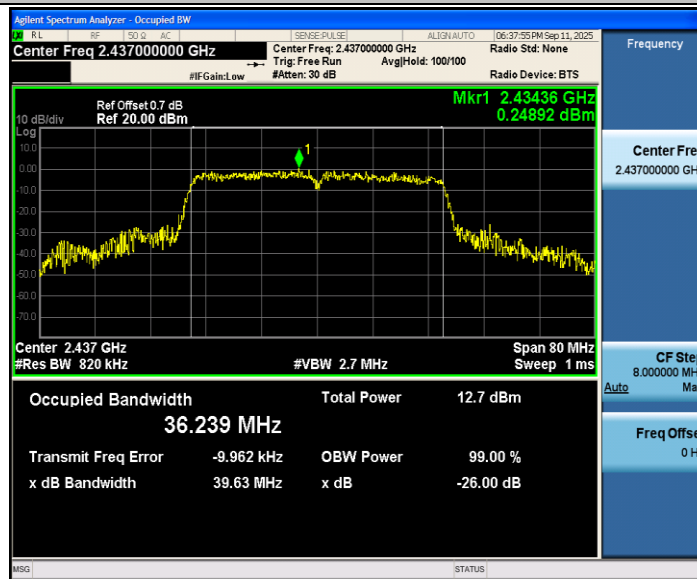
11N20SISO_Ant1_2462



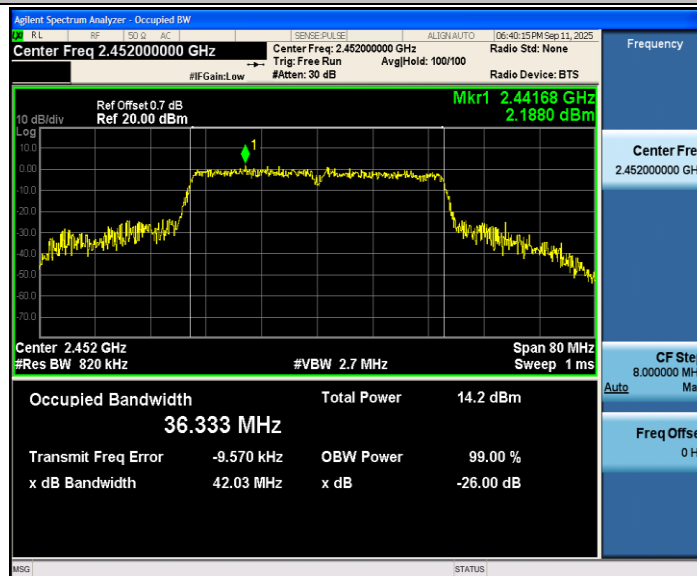
11N40SISO_Ant1_2422



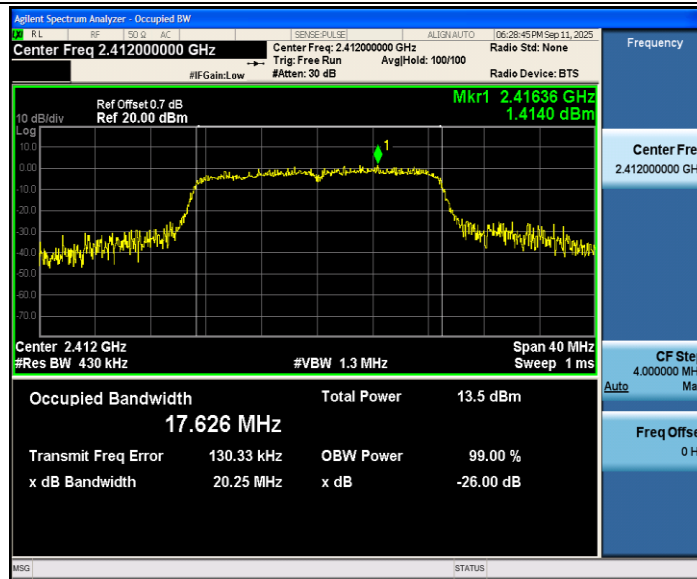
11N40SISO_Ant1_2437



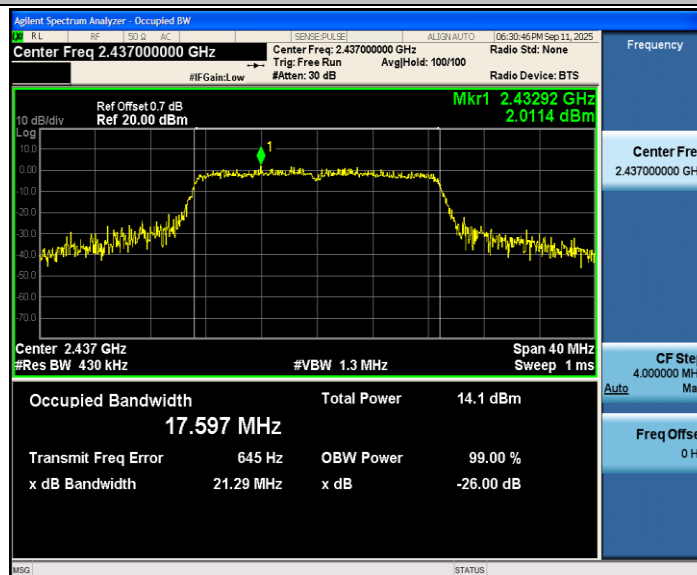
11N40SISO_Ant1_2452



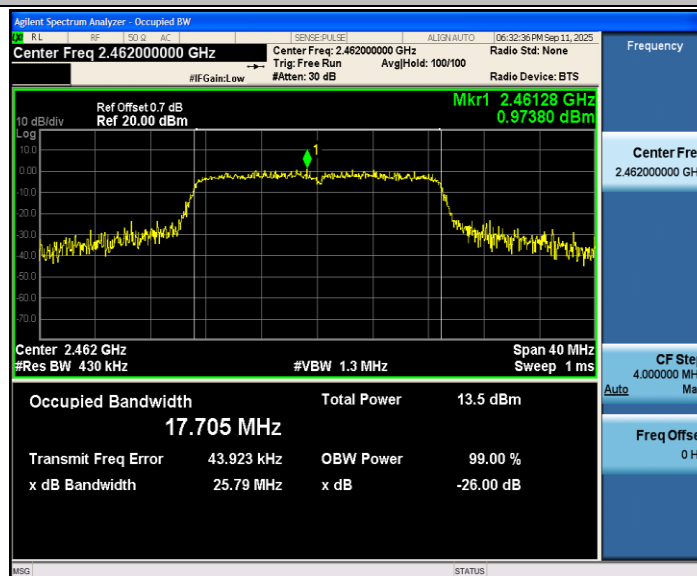
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



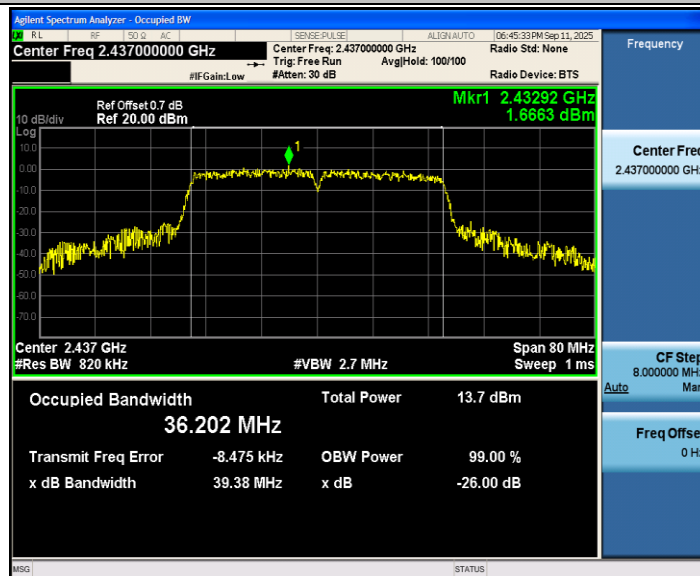
11AX20SISO_Ant1_2462



11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_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	13.39	≤30.00	PASS
		2437	13.67	≤30.00	PASS
		2462	13.44	≤30.00	PASS
11G	Ant1	2412	13.99	≤30.00	PASS
		2437	14.65	≤30.00	PASS
		2462	14.01	≤30.00	PASS
11N20SISO	Ant1	2412	14.09	≤30.00	PASS
		2437	14.91	≤30.00	PASS
		2462	14.25	≤30.00	PASS
11N40SISO	Ant1	2422	13.63	≤30.00	PASS
		2437	13.13	≤30.00	PASS
		2452	14.39	≤30.00	PASS
11AX20SISO	Ant1	2412	14.14	≤30.00	PASS
		2437	14.83	≤30.00	PASS
		2462	14.24	≤30.00	PASS
11AX40SISO	Ant1	2422	14.05	≤30.00	PASS
		2437	13.73	≤30.00	PASS
		2452	14.45	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

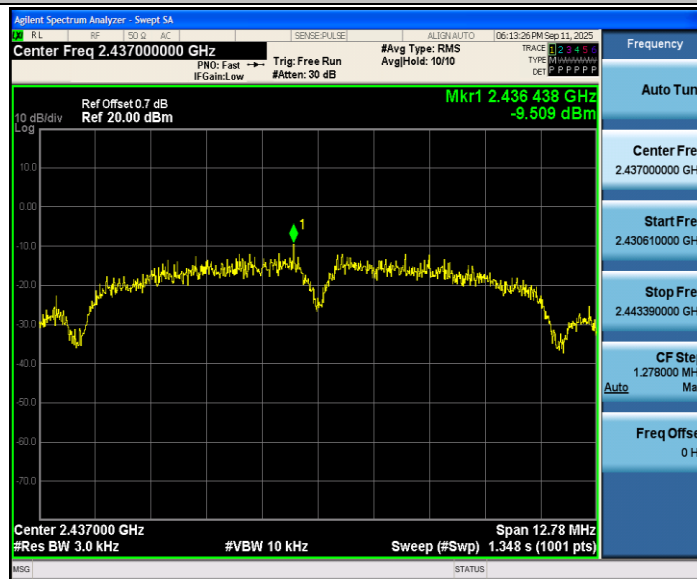
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.85	≤8.00	PASS
		2437	-9.51	≤8.00	PASS
		2462	-11.60	≤8.00	PASS
11G	Ant1	2412	-17.28	≤8.00	PASS
		2437	-17.26	≤8.00	PASS
		2462	-17.51	≤8.00	PASS
11N20SISO	Ant1	2412	-16.19	≤8.00	PASS
		2437	-17.22	≤8.00	PASS
		2462	-18.08	≤8.00	PASS
11N40SISO	Ant1	2422	-20.06	≤8.00	PASS
		2437	-20.92	≤8.00	PASS
		2452	-20.06	≤8.00	PASS
11AX20SISO	Ant1	2412	-17.45	≤8.00	PASS
		2437	-16.08	≤8.00	PASS
		2462	-17.54	≤8.00	PASS
11AX40SISO	Ant1	2422	-20.34	≤8.00	PASS
		2437	-19.52	≤8.00	PASS
		2452	-19.71	≤8.00	PASS

Test Graphs

11B_Ant1_2412



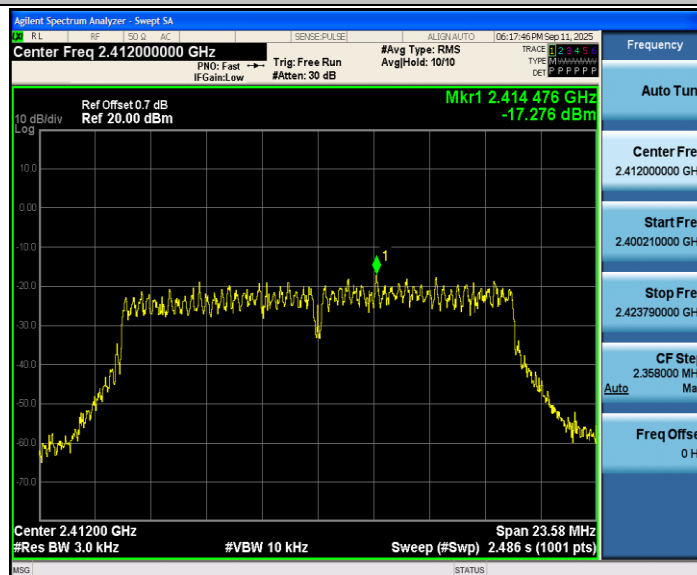
11B_Ant1_2437



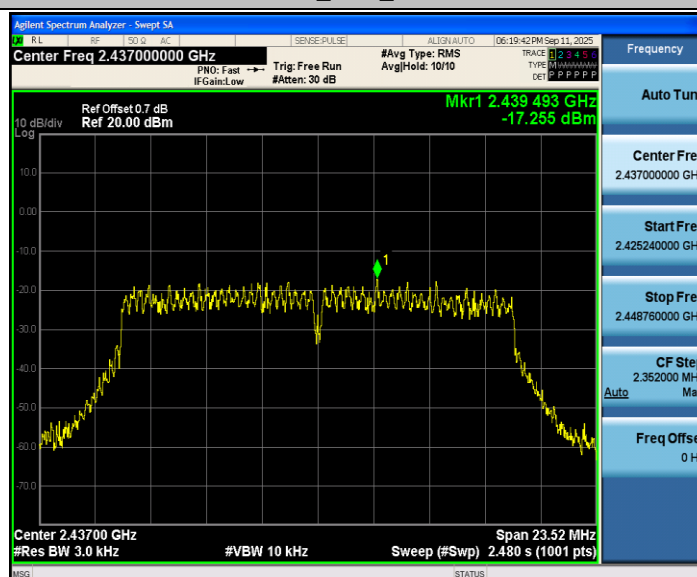
11B_Ant1_2462



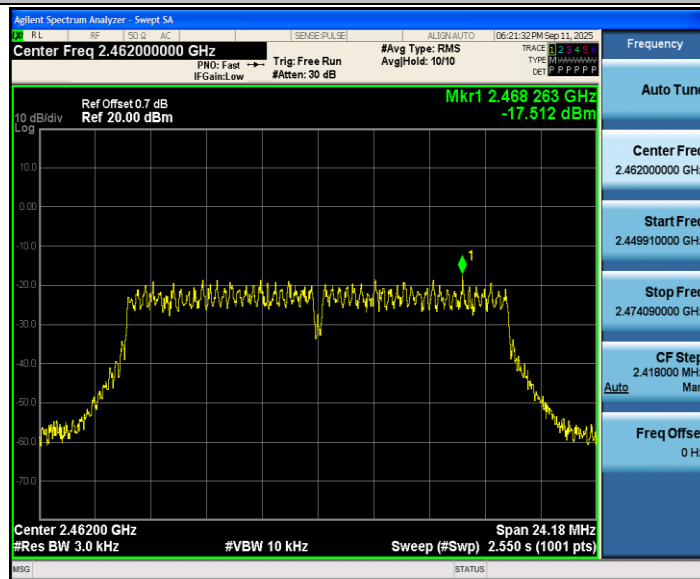
11G_Ant1_2412



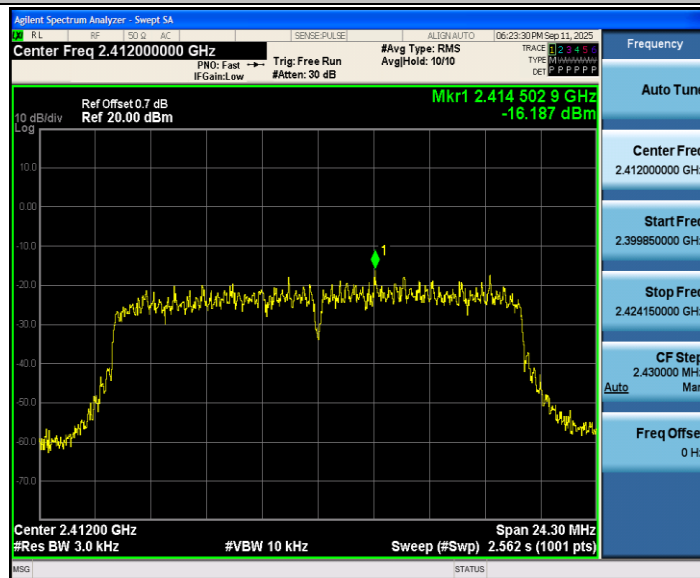
11G_Ant1_2437



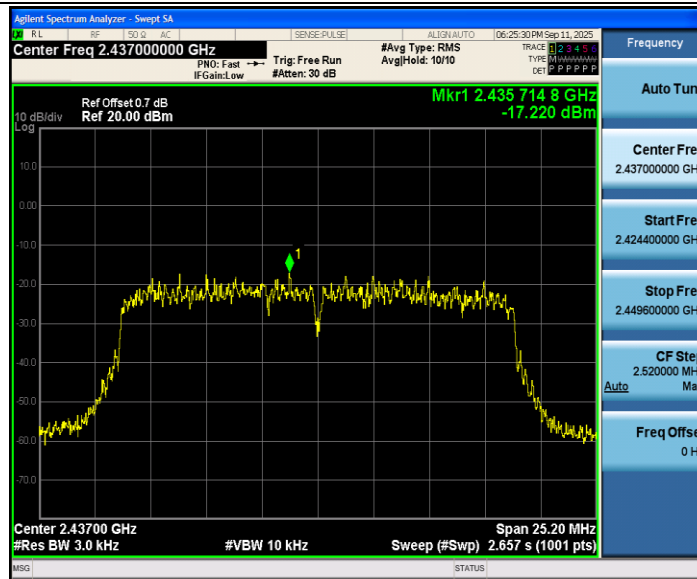
11G_Ant1_2462



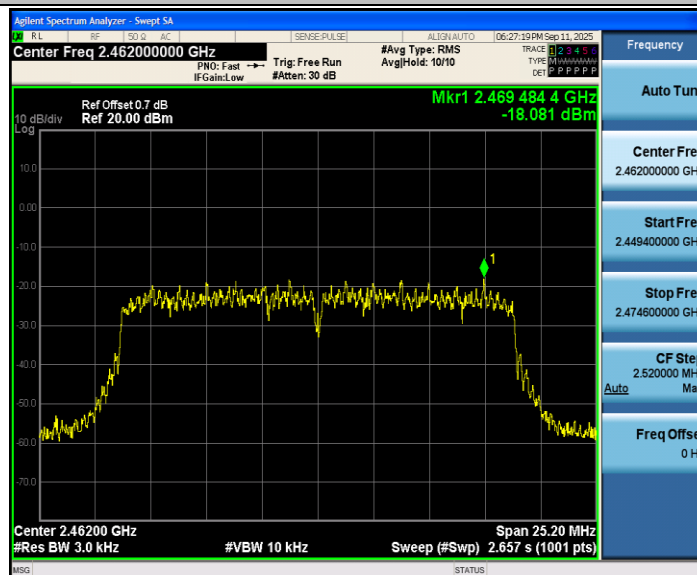
11N20SISO_Ant1_2412



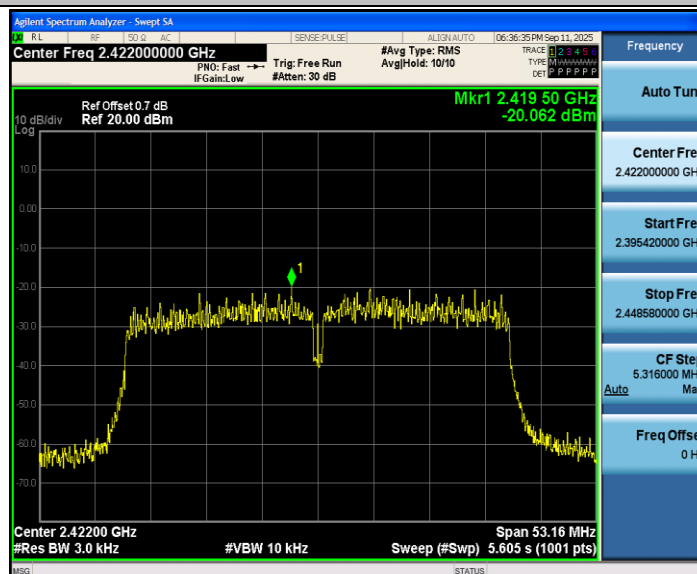
11N20SISO_Ant1_2437



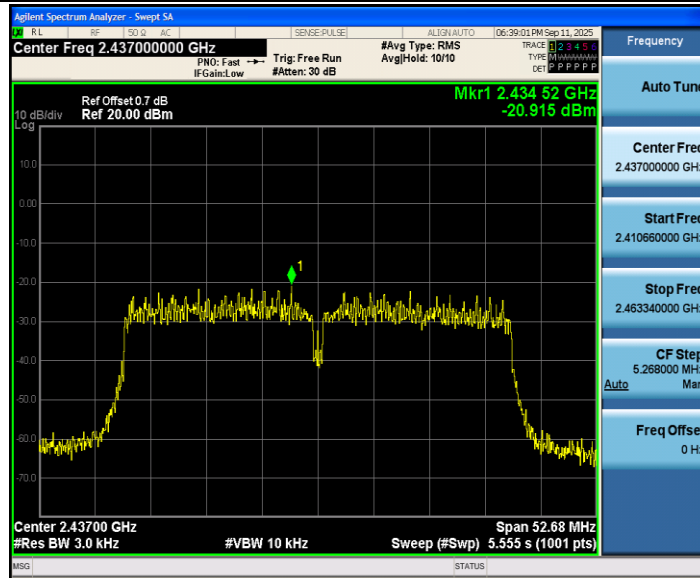
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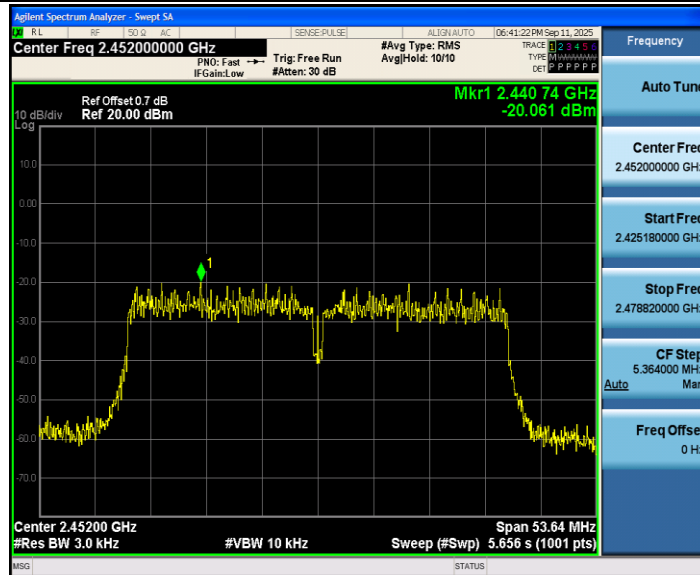
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



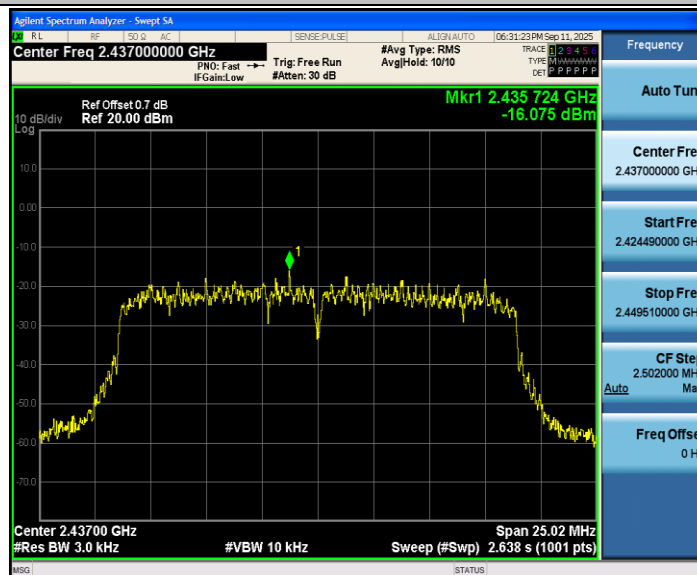
11N40SISO_Ant1_2452



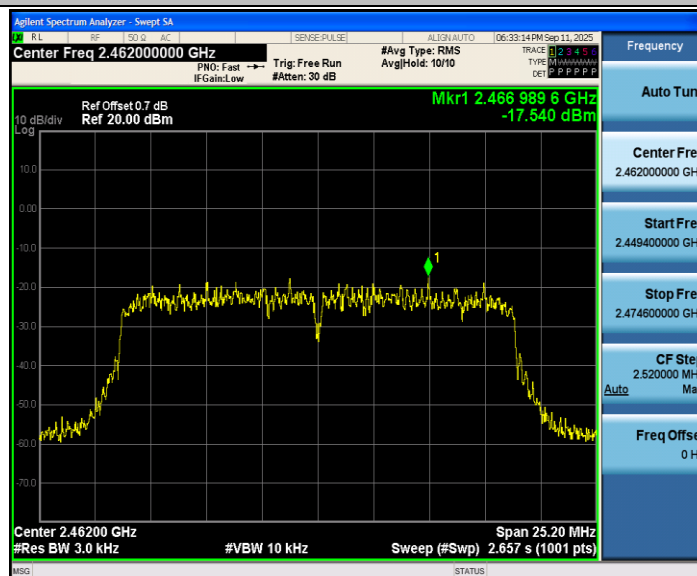
11AX20SISO_Ant1_2412



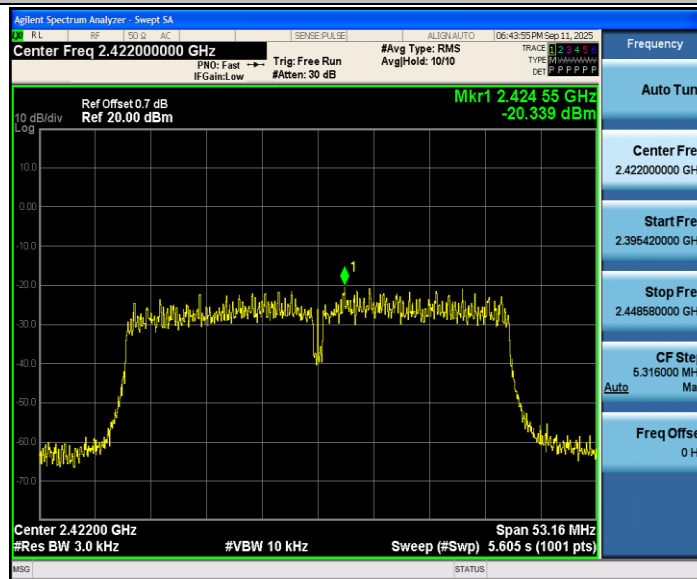
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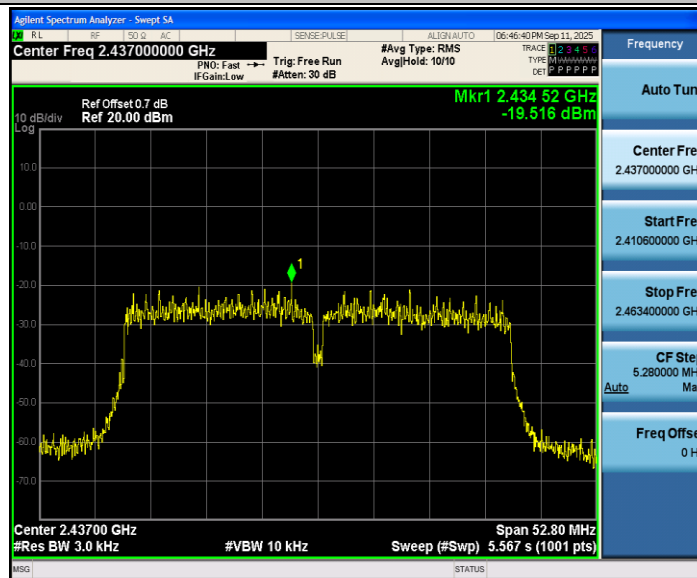
11AX20SISO_Ant1_2462



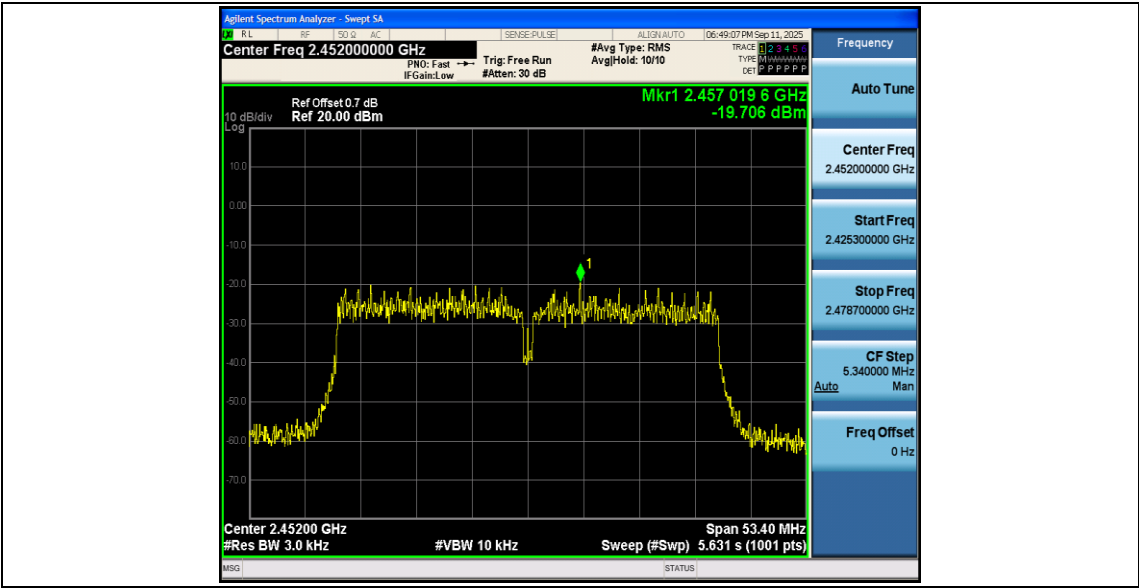
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.66	-53.14	≤-17.34	PASS
		High	2462	2.03	-54.17	≤-17.98	PASS
11G	Ant1	Low	2412	-2.36	-36.66	≤-22.36	PASS
		High	2462	-2.97	-46.68	≤-22.97	PASS
11N20SISO	Ant1	Low	2412	-2.38	-36.67	≤-22.38	PASS
		High	2462	-2.93	-45.85	≤-22.93	PASS
11N40SISO	Ant1	Low	2422	-5.25	-41.37	≤-25.25	PASS
		High	2452	-5.53	-44.32	≤-25.53	PASS
11AX20SISO	Ant1	Low	2412	-2.42	-36.69	≤-22.42	PASS
		High	2462	-2.83	-43.72	≤-22.83	PASS
11AX40SISO	Ant1	Low	2422	-5.11	-41.01	≤-25.11	PASS
		High	2452	-5.54	-46.01	≤-25.54	PASS