

FCC Appendix RF Test Data for 2.4GWIFI ANT2

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	8.520	2408.000	2416.520	0.5	PASS
		2437	8.520	2432.520	2441.040	0.5	PASS
		2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	15.680	2404.480	2420.160	0.5	PASS
		2437	16.040	2428.880	2444.920	0.5	PASS
		2462	16.040	2454.120	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.280	2404.360	2420.640	0.5	PASS
		2437	16.760	2428.520	2445.280	0.5	PASS
		2462	17.000	2453.640	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.200	2419.400	2454.600	0.5	PASS
		2452	35.760	2434.000	2469.760	0.5	PASS
11AX20SISO	Ant1	2412	16.280	2404.360	2420.640	0.5	PASS
		2437	16.840	2428.400	2445.240	0.5	PASS
		2462	17.000	2453.480	2470.480	0.5	PASS
11AX40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.280	2419.320	2454.600	0.5	PASS
		2452	35.760	2433.920	2469.680	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



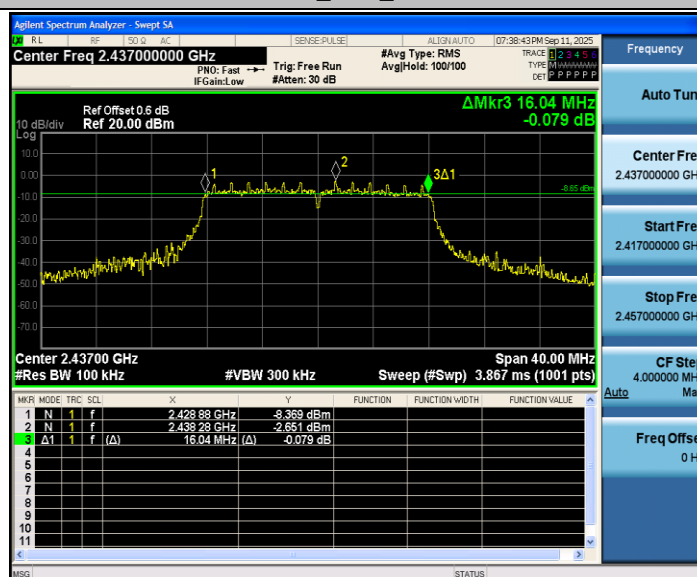
11B_Ant1_2462



11G_Ant1_2412



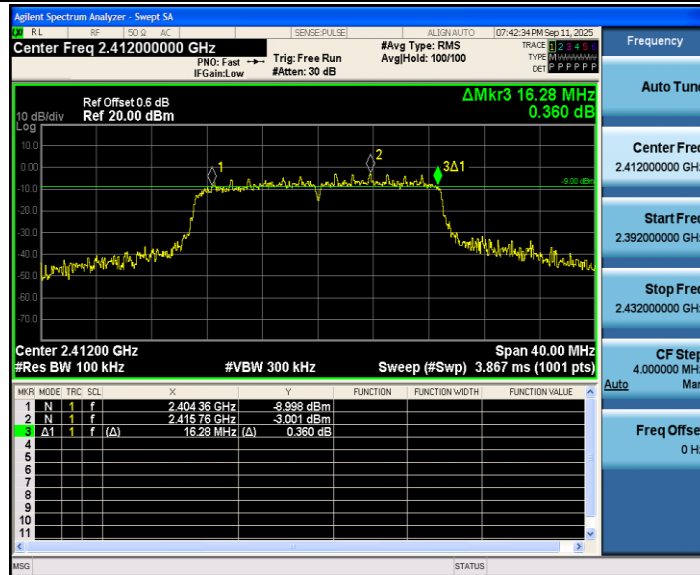
11G_Ant1_2437



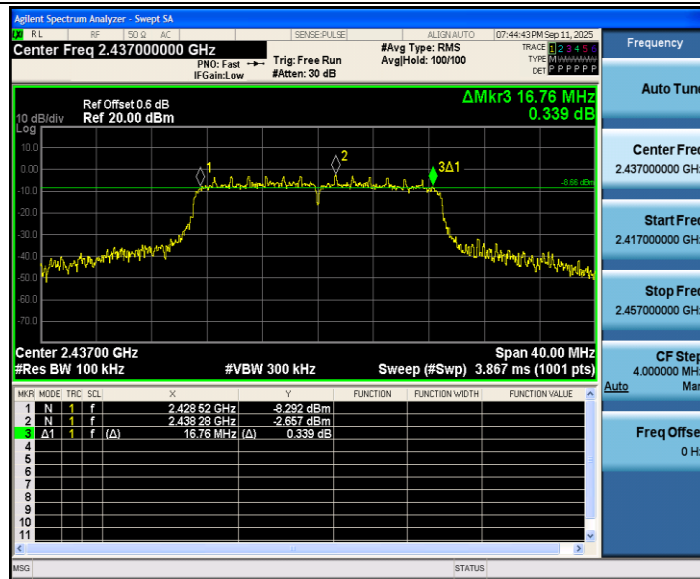
11G_Ant1_2462



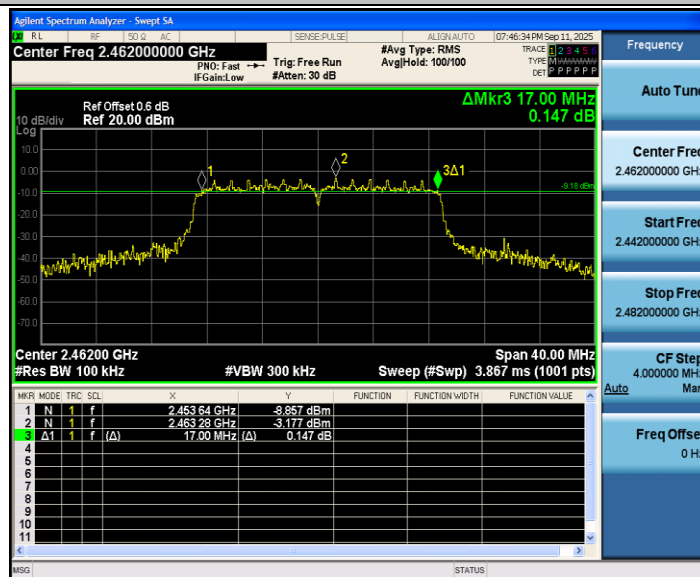
11N20SISO_Ant1_2412



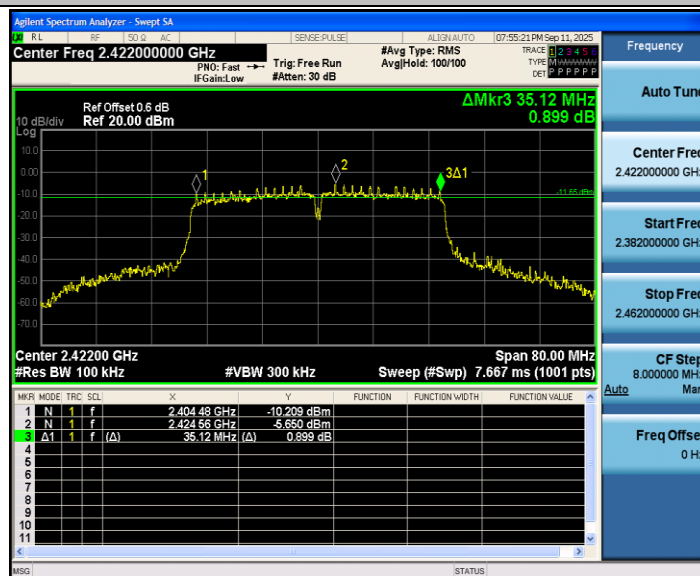
11N20SISO_Ant1_2437



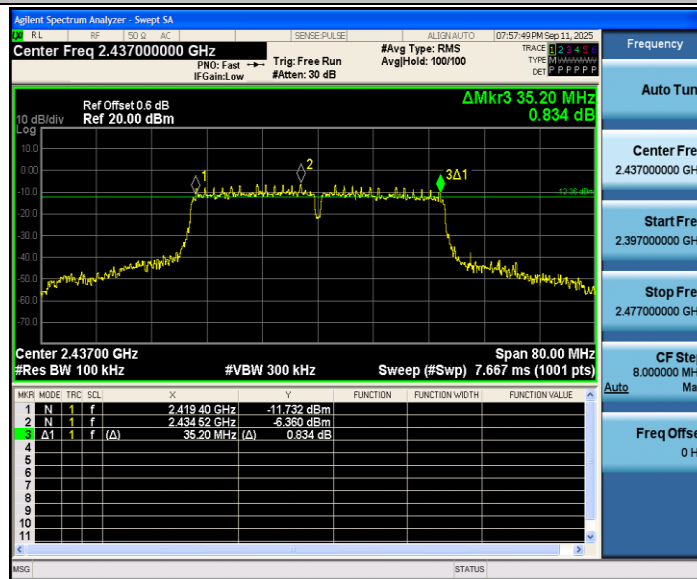
11N20SISO_Ant1_2462



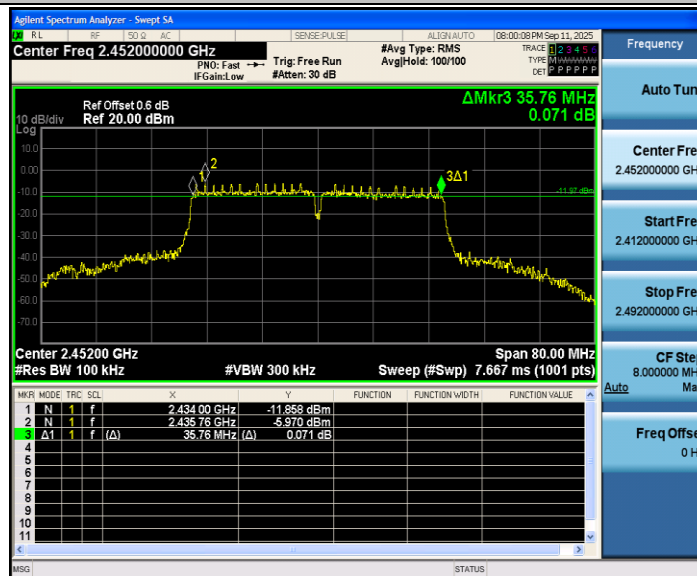
11N40SISO_Ant1_2422



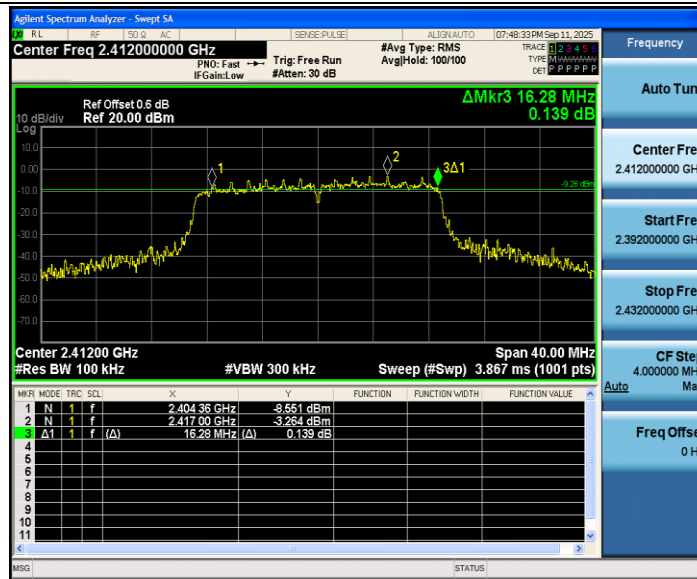
11N40SISO_Ant1_2437



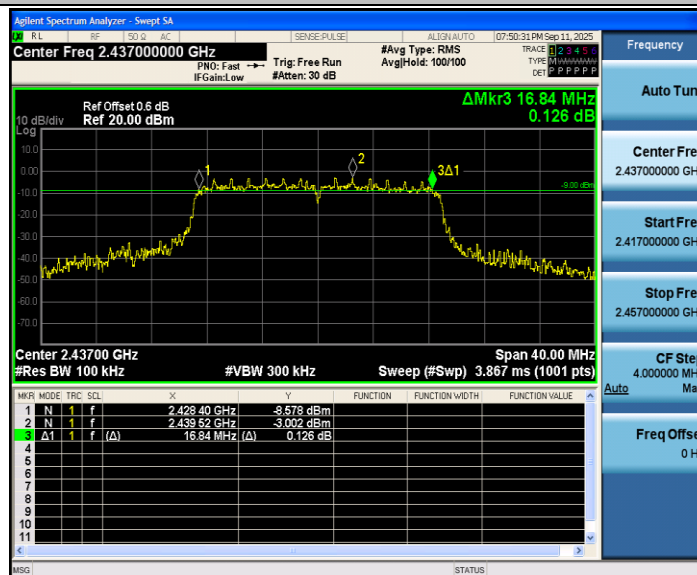
11N40SISO_Ant1_2452



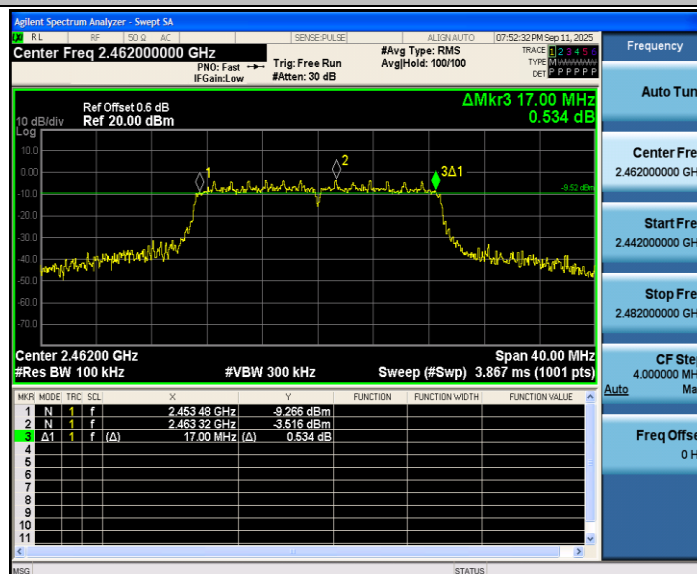
11AX20SISO_Ant1_2412



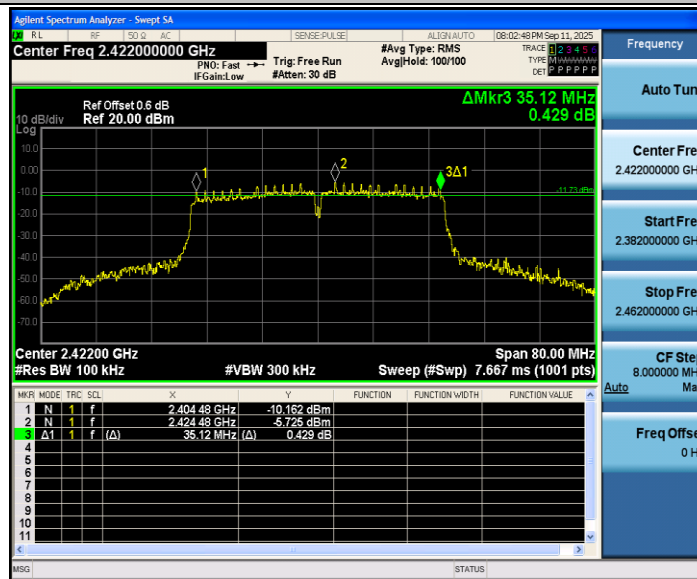
11AX20SISO_Ant1_2437



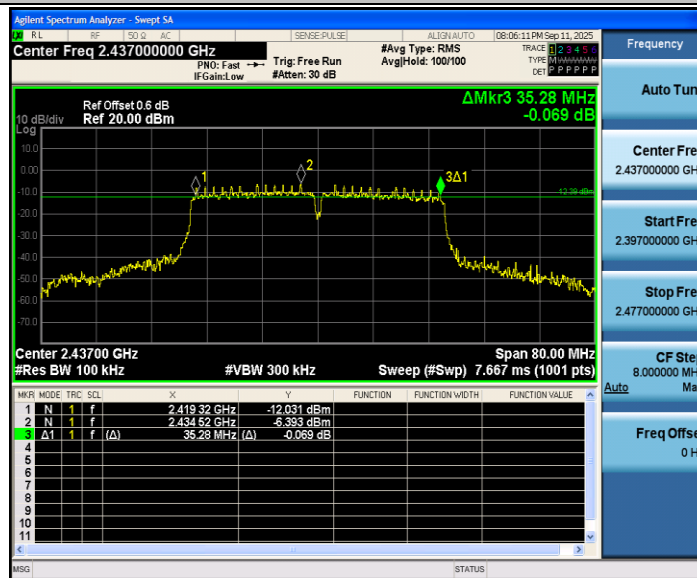
11AX20SISO_Ant1_2462



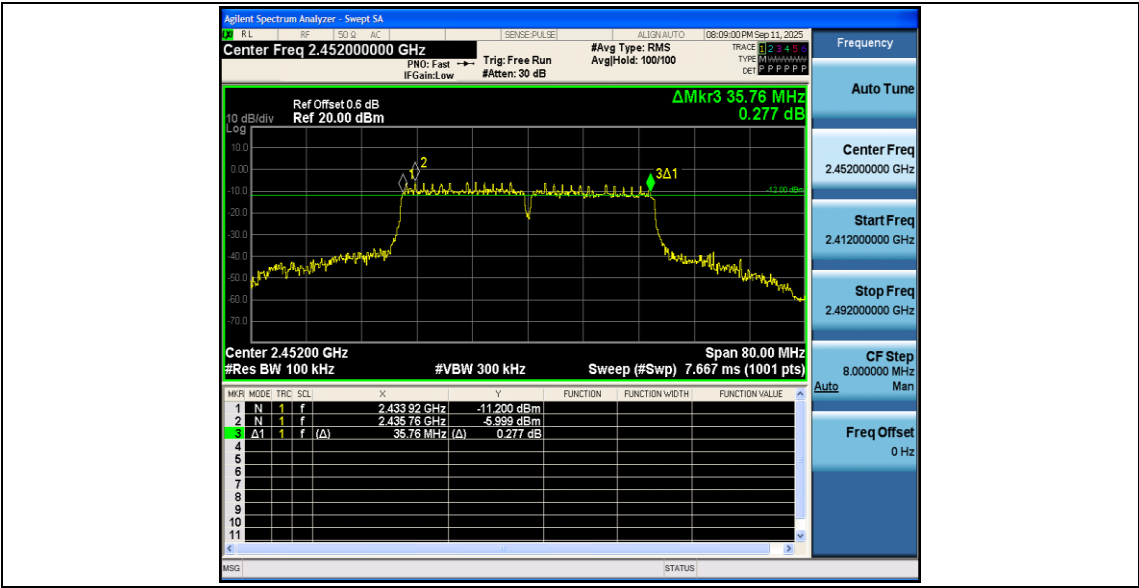
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



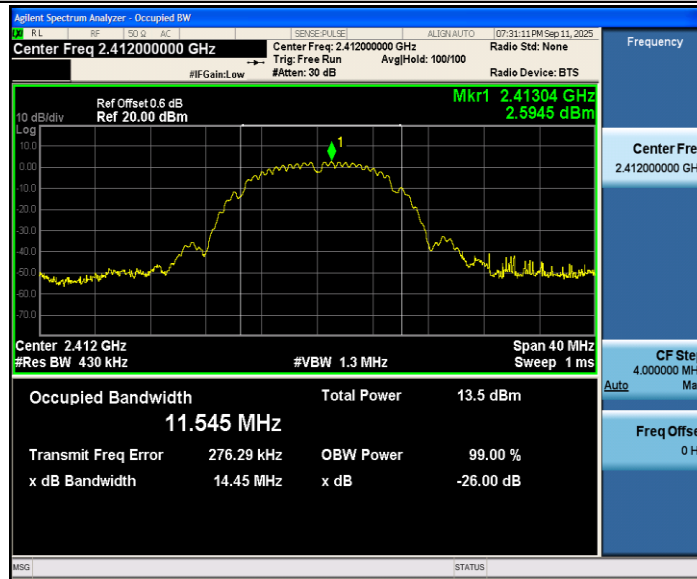
Appendix B: Occupied Channel Bandwidth

Test Result

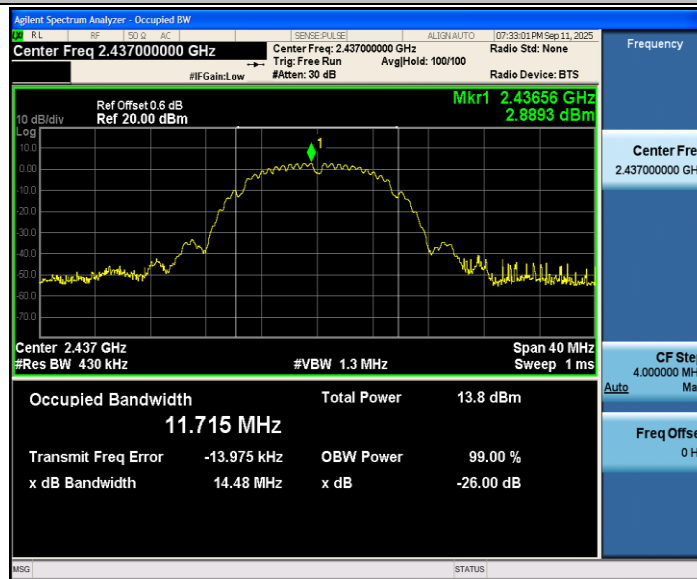
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.545	2406.5038	2418.0488	---	---
		2437	11.715	2431.1285	2442.8435	---	---
		2462	11.819	2456.1390	2467.9580	---	---
11G	Ant1	2412	16.638	2403.8457	2420.4837	---	---
		2437	16.722	2428.6248	2445.3468	---	---
		2462	16.704	2453.6768	2470.3808	---	---
11N20SISO	Ant1	2412	17.595	2403.3370	2420.9320	---	---
		2437	17.643	2428.1958	2445.8388	---	---
		2462	17.675	2453.2058	2470.8808	---	---
11N40SISO	Ant1	2422	36.063	2404.2209	2440.2839	---	---
		2437	36.180	2418.9165	2455.0965	---	---
		2452	36.479	2433.7277	2470.2067	---	---
11AX20SISO	Ant1	2412	17.604	2403.3323	2420.9363	---	---
		2437	17.630	2428.1917	2445.8217	---	---
		2462	17.700	2453.1921	2470.8921	---	---
11AX40SISO	Ant1	2422	36.073	2404.2010	2440.2740	---	---
		2437	36.146	2418.9785	2455.1245	---	---
		2452	36.389	2433.7683	2470.1573	---	---

Test Graphs

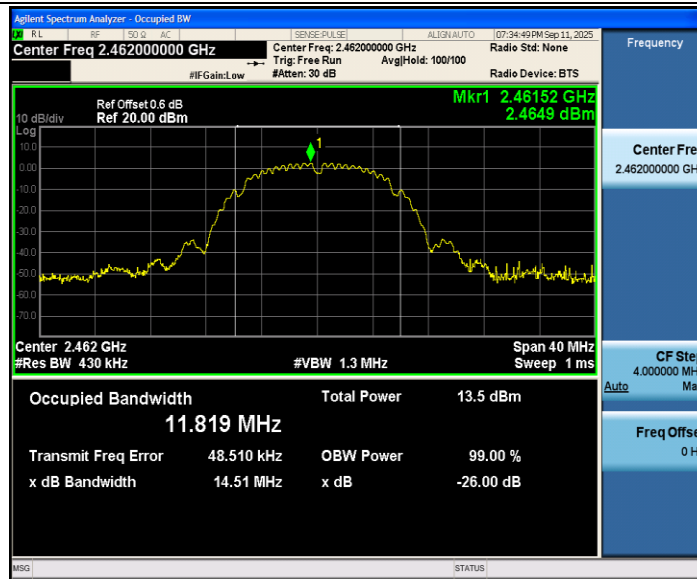
11B_Ant1_2412



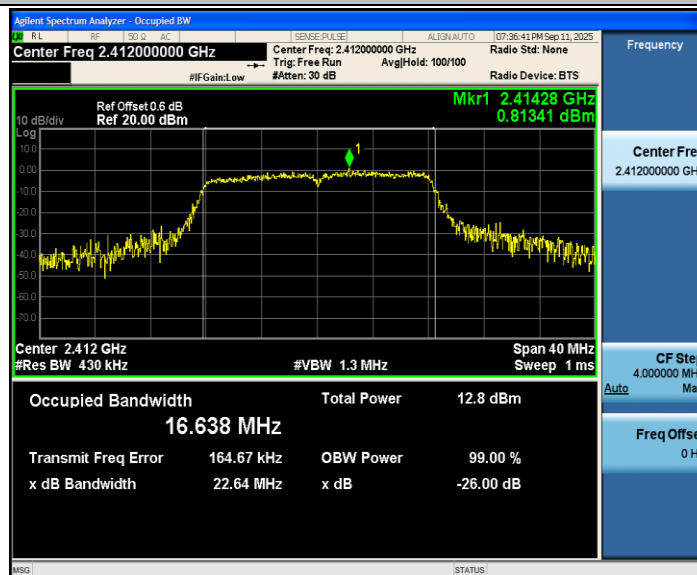
11B_Ant1_2437



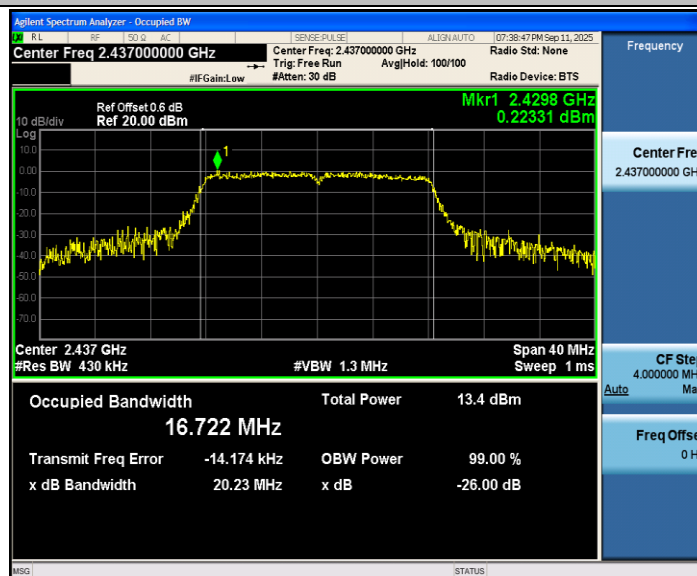
11B_Ant1_2462



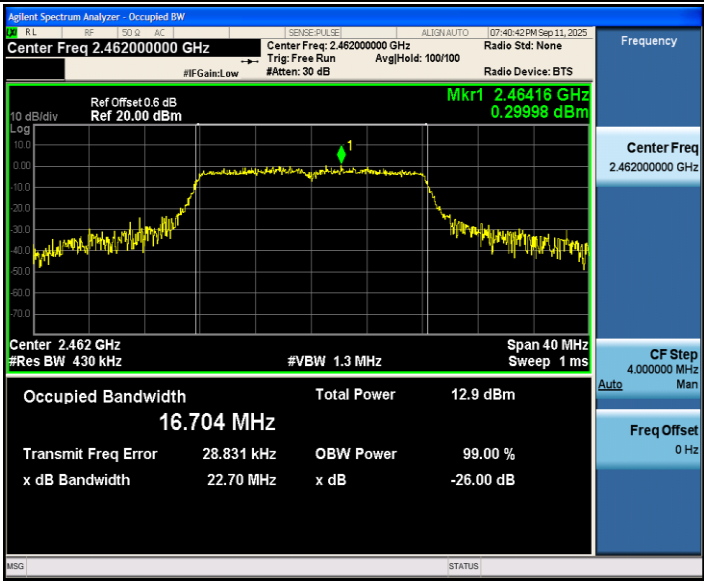
11G_Ant1_2412



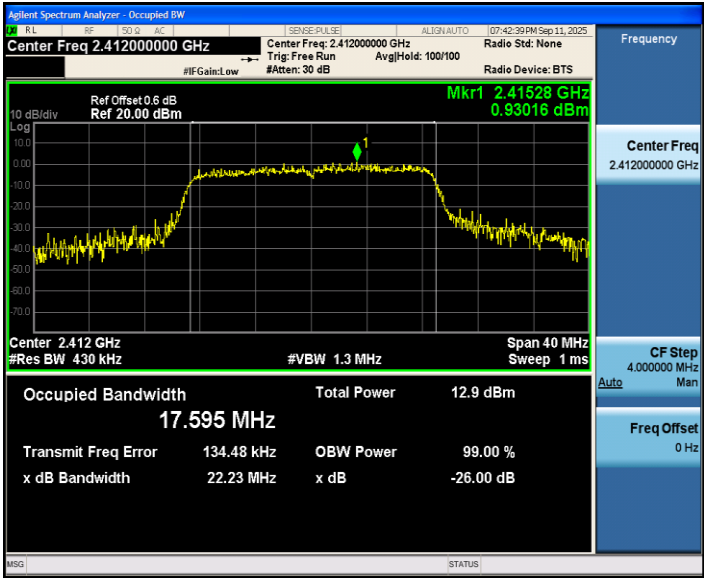
11G_Ant1_2437



11G_Ant1_2462



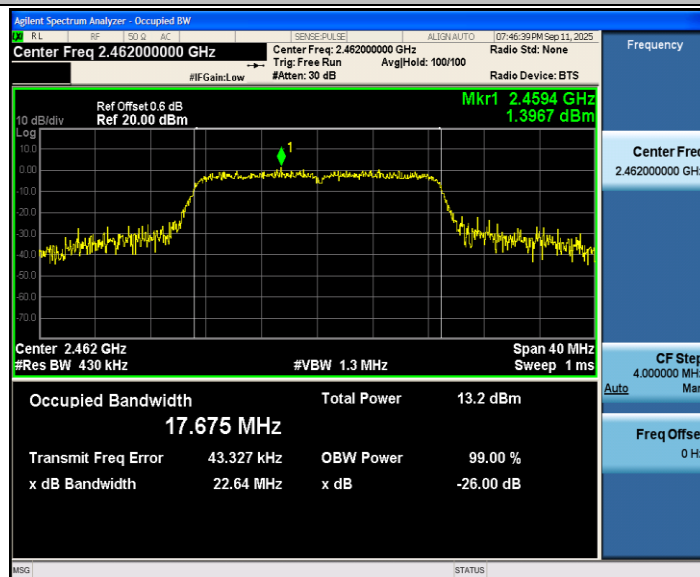
11N20SISO_Ant1_2412



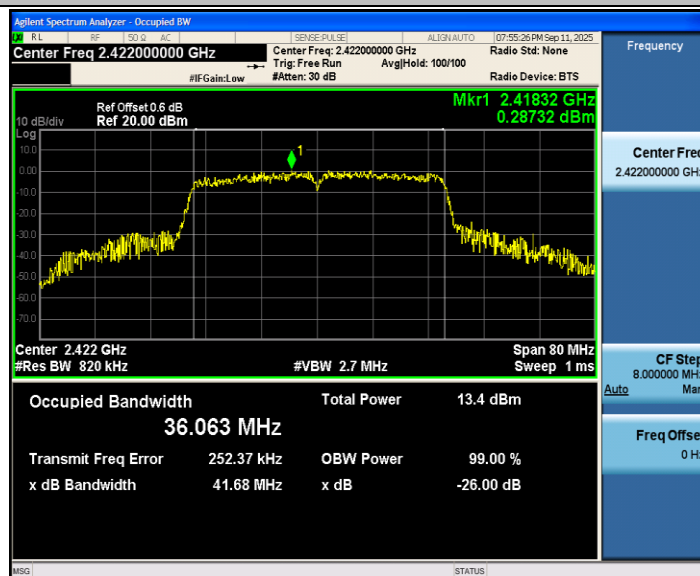
11N20SISO_Ant1_2437



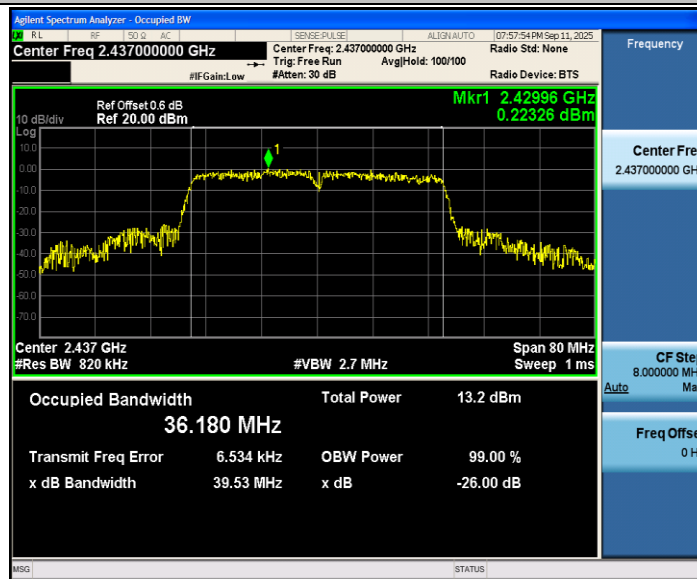
11N20SISO_Ant1_2462



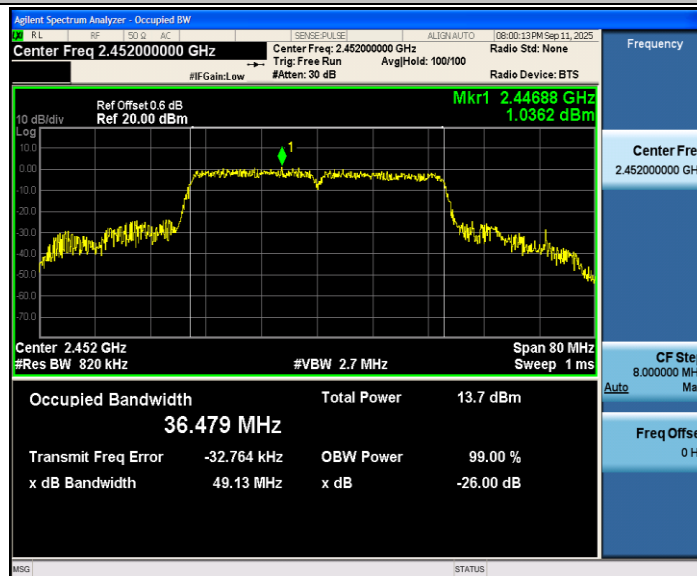
11N40SISO_Ant1_2422



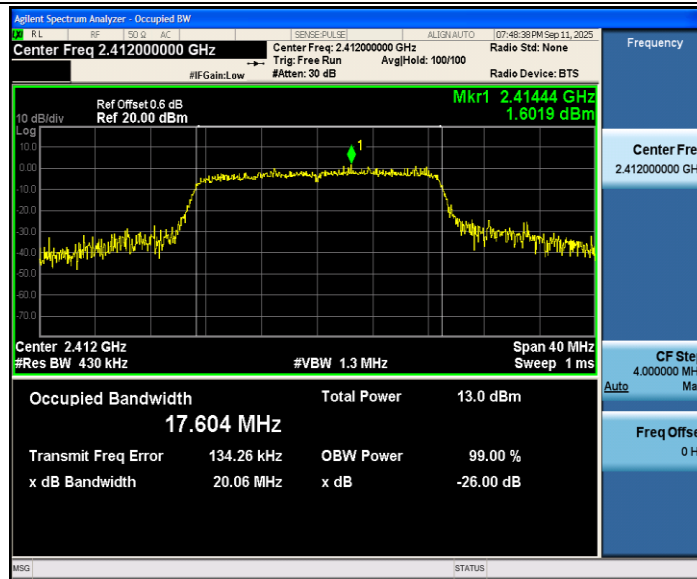
11N40SISO_Ant1_2437



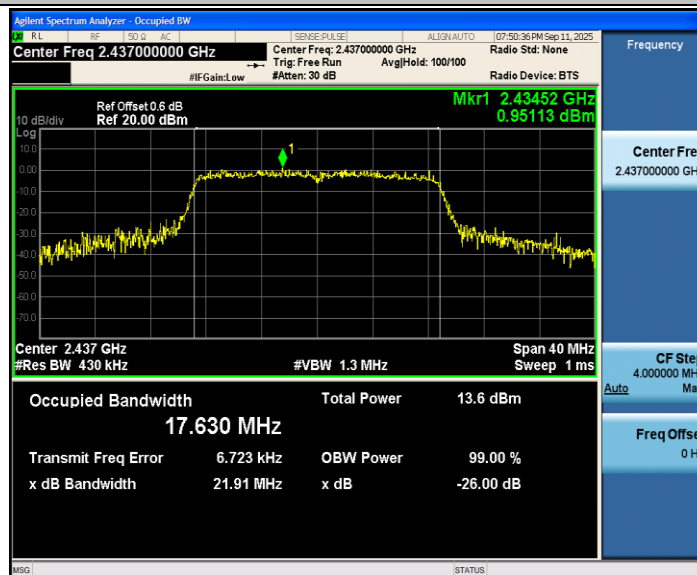
11N40SISO_Ant1_2452



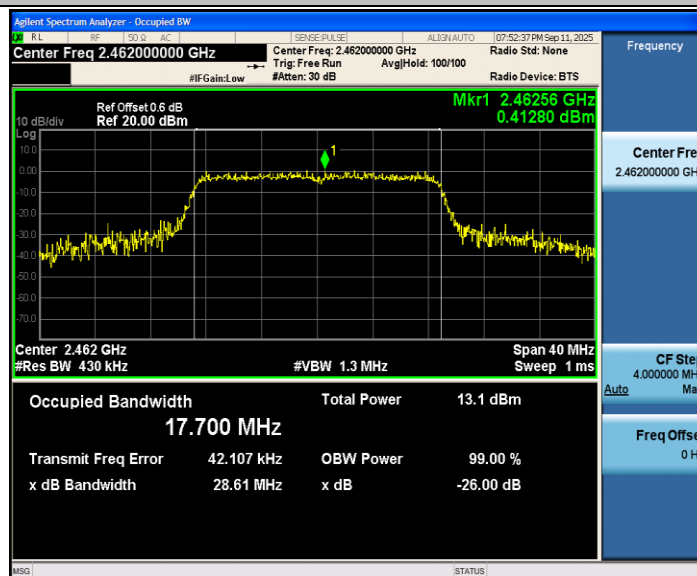
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



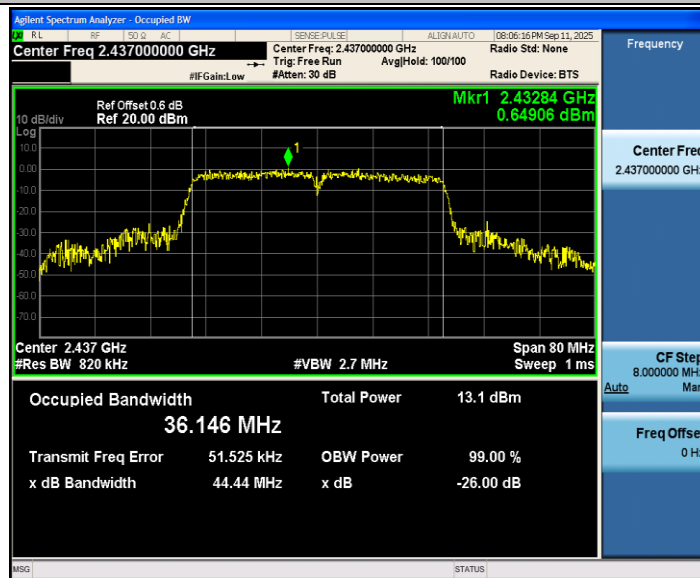
11AX20SISO_Ant1_2462



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	13.28	≤30.00	PASS
		2437	13.60	≤30.00	PASS
		2462	13.39	≤30.00	PASS
11G	Ant1	2412	13.42	≤30.00	PASS
		2437	14.05	≤30.00	PASS
		2462	13.74	≤30.00	PASS
11N20SISO	Ant1	2412	13.62	≤30.00	PASS
		2437	14.19	≤30.00	PASS
		2462	13.91	≤30.00	PASS
11N40SISO	Ant1	2422	13.67	≤30.00	PASS
		2437	13.26	≤30.00	PASS
		2452	13.86	≤30.00	PASS
11AX20SISO	Ant1	2412	13.55	≤30.00	PASS
		2437	14.30	≤30.00	PASS
		2462	13.81	≤30.00	PASS
11AX40SISO	Ant1	2422	13.50	≤30.00	PASS
		2437	13.16	≤30.00	PASS
		2452	13.95	≤30.00	PASS

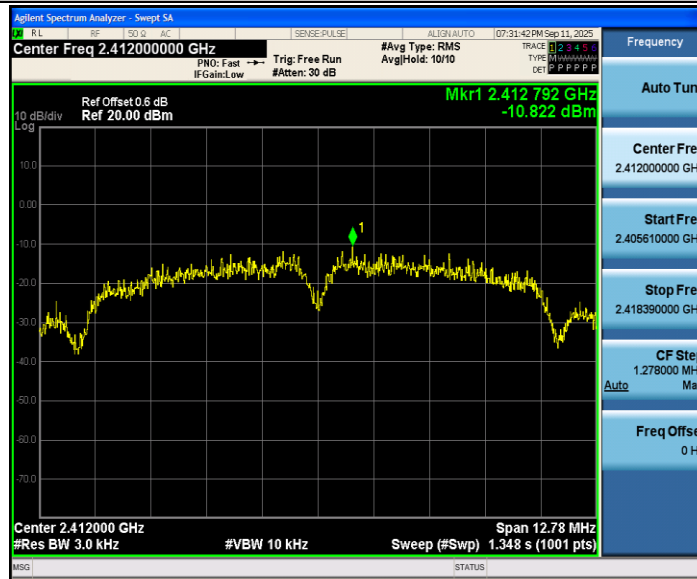
Appendix D: Maximum power spectral density

Test Result

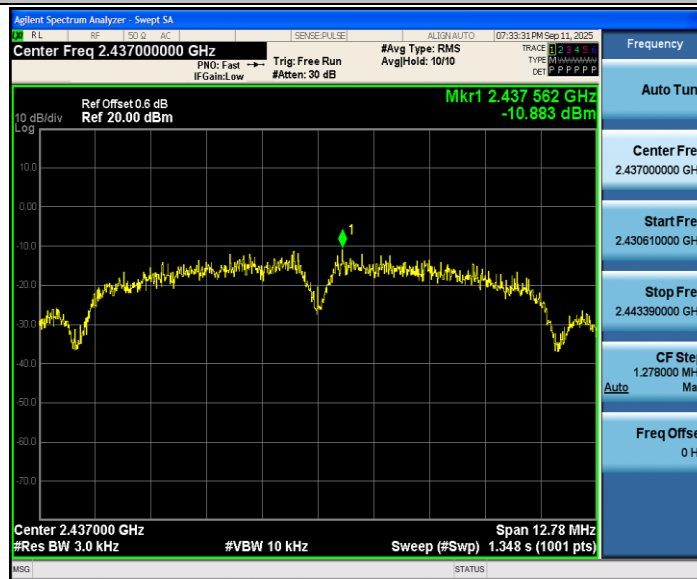
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.82	≤8.00	PASS
		2437	-10.88	≤8.00	PASS
		2462	-11.62	≤8.00	PASS
11G	Ant1	2412	-17.01	≤8.00	PASS
		2437	-18.29	≤8.00	PASS
		2462	-18.35	≤8.00	PASS
11N20SISO	Ant1	2412	-17.68	≤8.00	PASS
		2437	-16.67	≤8.00	PASS
		2462	-18.27	≤8.00	PASS
11N40SISO	Ant1	2422	-20.44	≤8.00	PASS
		2437	-21.24	≤8.00	PASS
		2452	-20.22	≤8.00	PASS
11AX20SISO	Ant1	2412	-17.67	≤8.00	PASS
		2437	-17.28	≤8.00	PASS
		2462	-18.30	≤8.00	PASS
11AX40SISO	Ant1	2422	-20.12	≤8.00	PASS
		2437	-20.42	≤8.00	PASS
		2452	-20.14	≤8.00	PASS

Test Graphs

11B_Ant1_2412



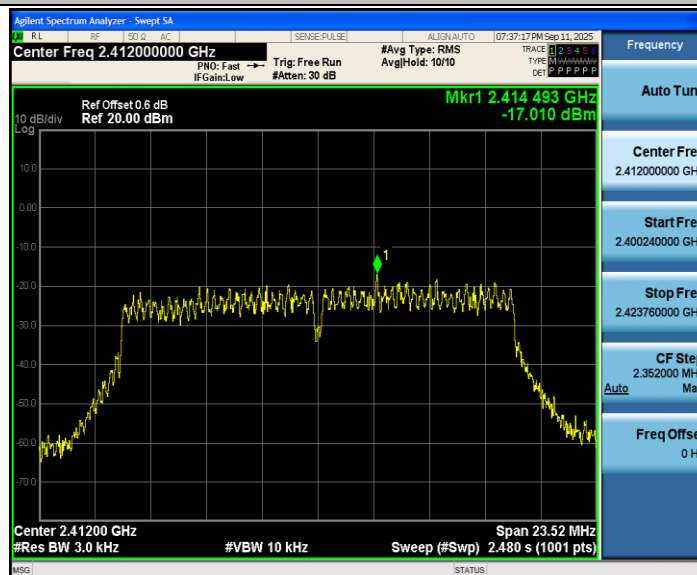
11B_Ant1_2437



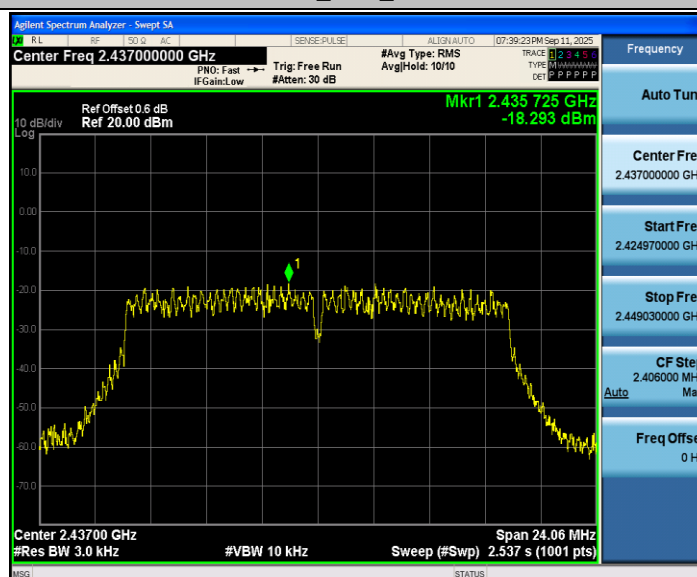
11B_Ant1_2462



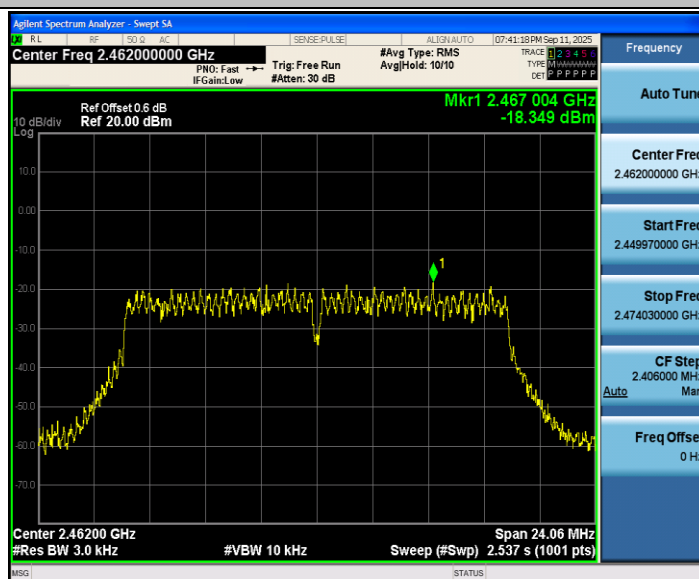
11G_Ant1_2412



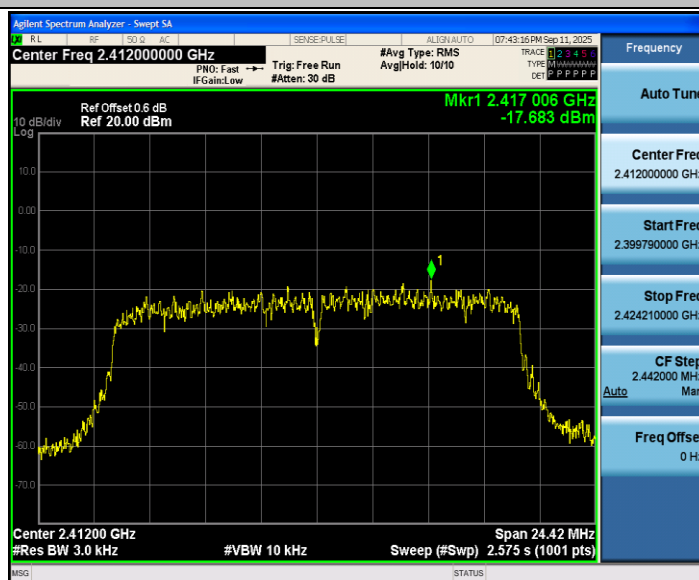
11G_Ant1_2437



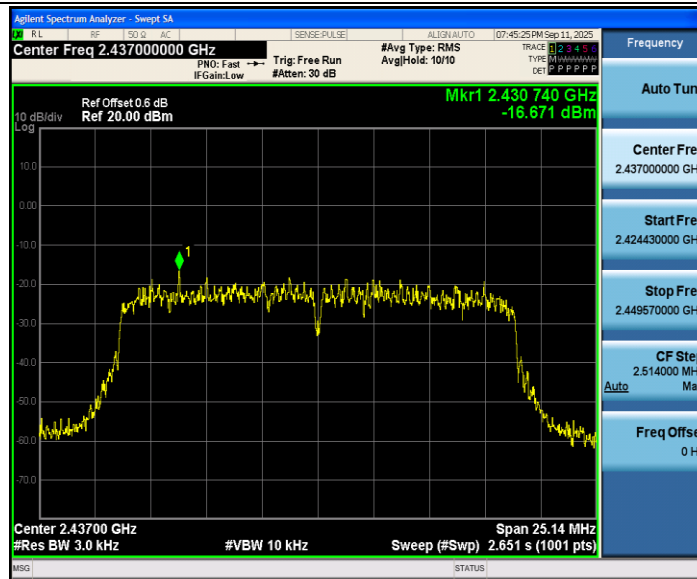
11G_Ant1_2462



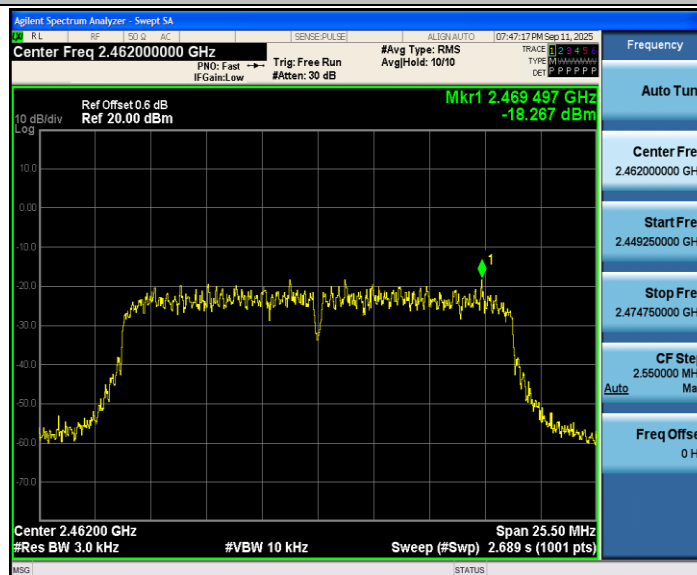
11N20SISO_Ant1_2412



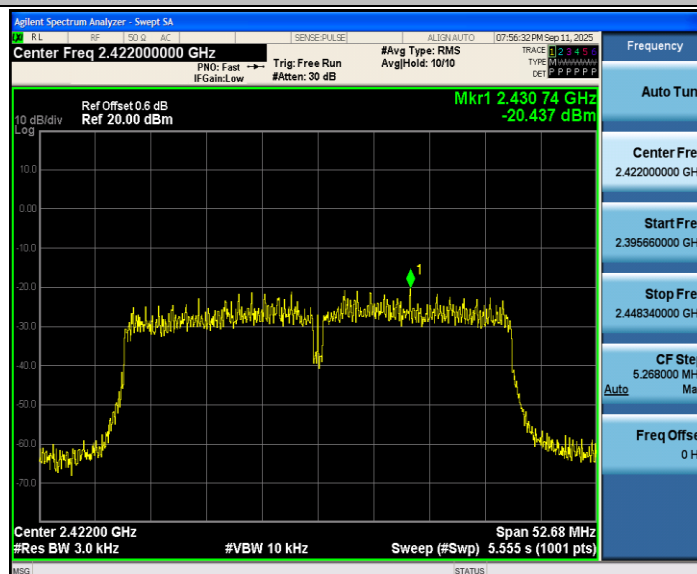
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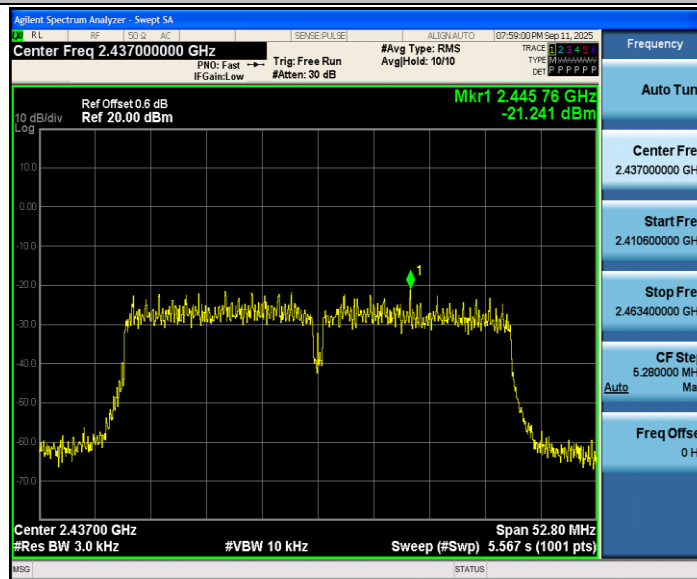
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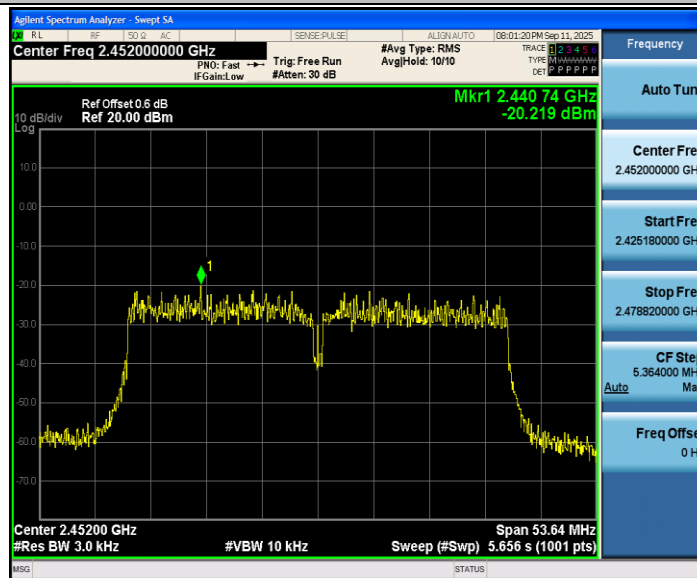
11N40SISO_Ant1_2422



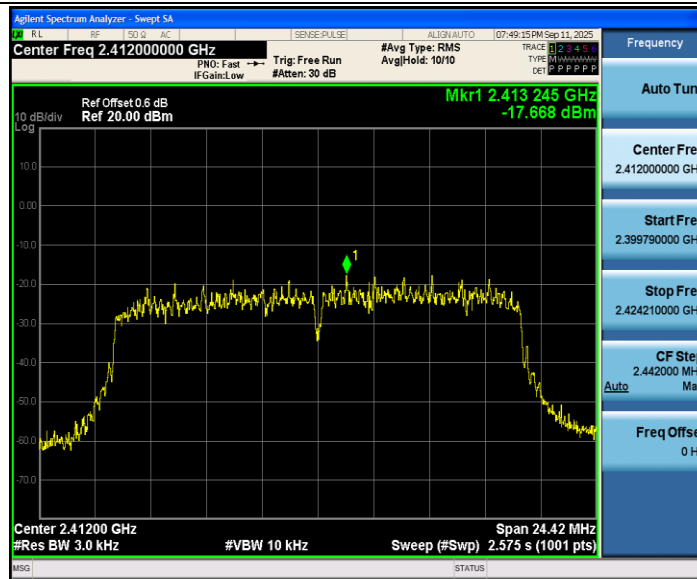
11N40SISO_Ant1_2437



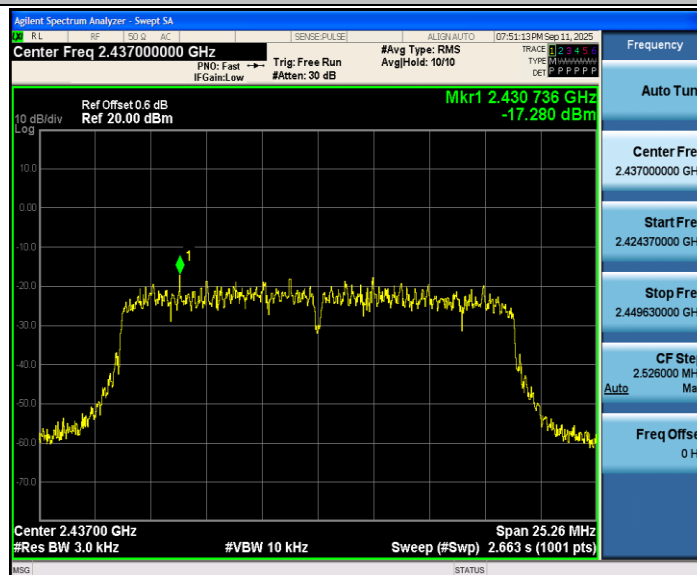
11N40SISO_Ant1_2452



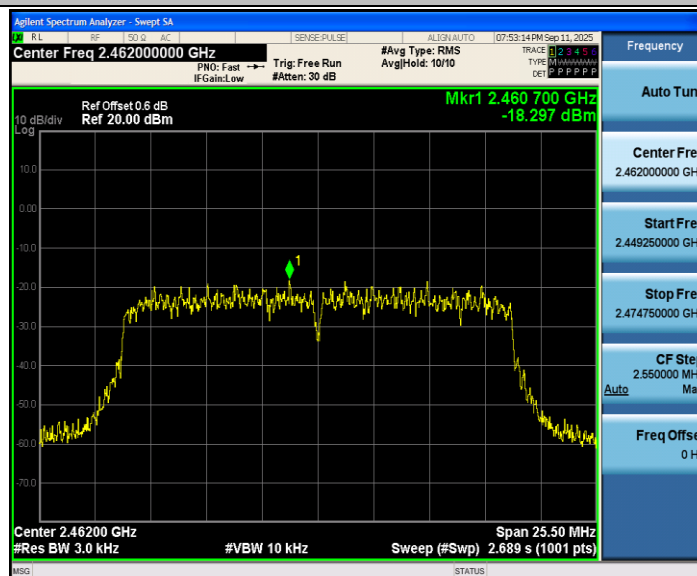
11AX20SISO_Ant1_2412



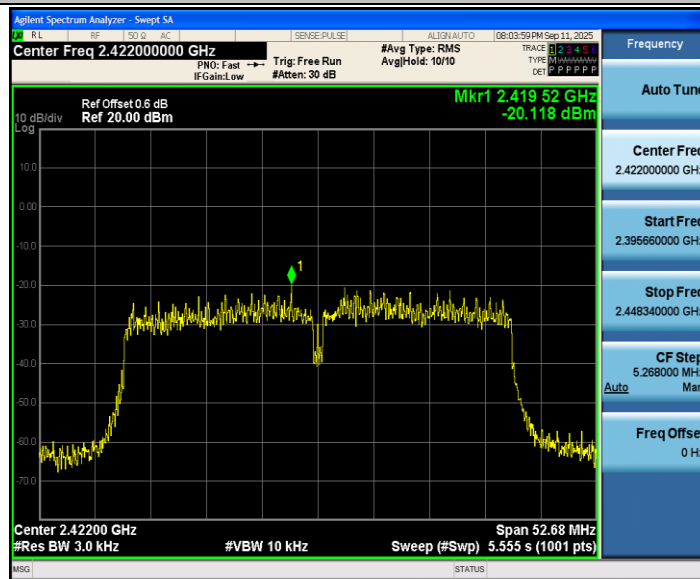
11AX20SISO_Ant1_2437



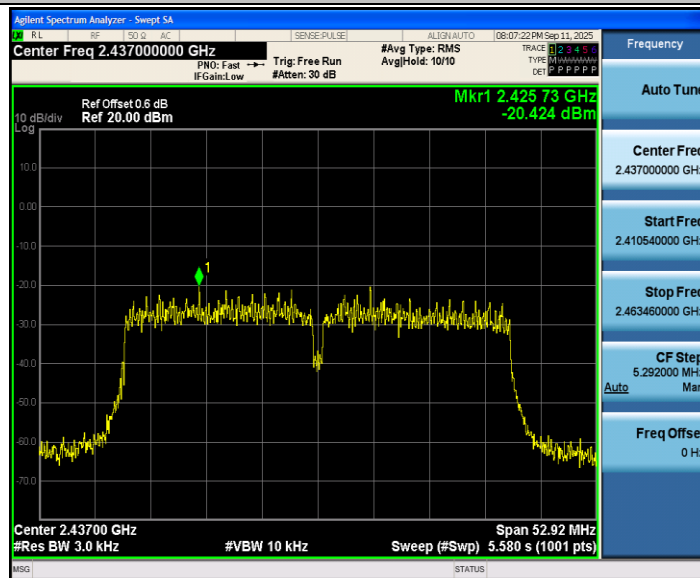
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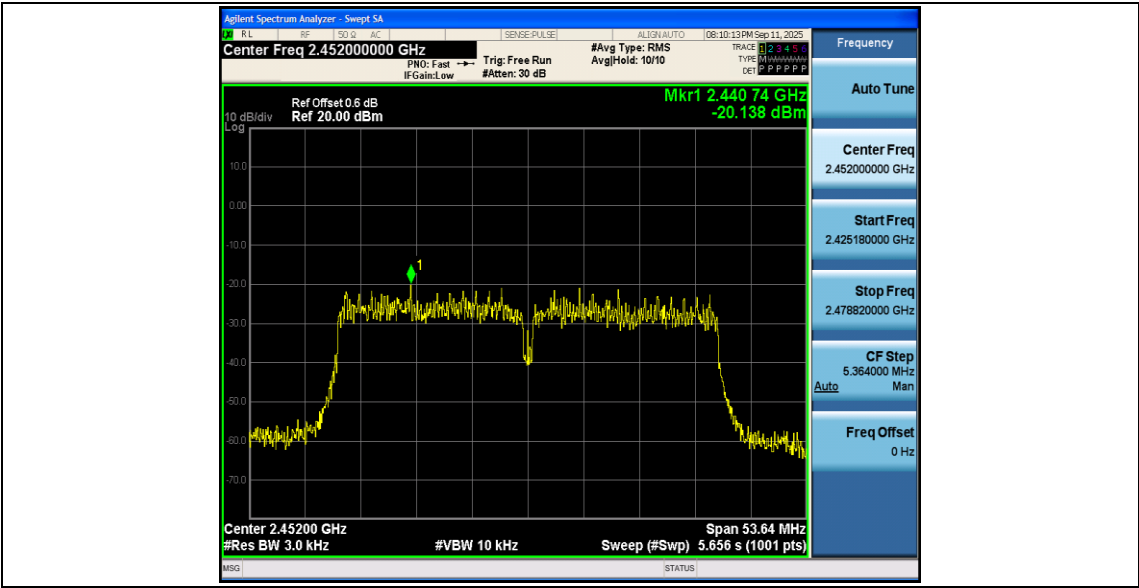
11AX40SISO_Ant1_2422



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	2.00	-52.34	≤-18	PASS
		High	2462	1.69	-53.86	≤-18.31	PASS
11G	Ant1	Low	2412	-3.00	-36.93	≤-23	PASS
		High	2462	-3.25	-45.9	≤-23.25	PASS
11N20SISO	Ant1	Low	2412	-2.95	-38.01	≤-22.95	PASS
		High	2462	-3.23	-47.38	≤-23.23	PASS
11N40SISO	Ant1	Low	2422	-5.72	-41.45	≤-25.72	PASS
		High	2452	-6.00	-46.75	≤-26	PASS
11AX20SISO	Ant1	Low	2412	-3.00	-36.88	≤-23	PASS
		High	2462	-3.23	-43.88	≤-23.23	PASS
11AX40SISO	Ant1	Low	2422	-5.69	-41.45	≤-25.69	PASS
		High	2452	-5.99	-44.2	≤-25.99	PASS