

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BO6V-KI-D086L

Company : SHENZHEN KINGIMAGE TECHNOLOGY CO.,LTD.

EUT : Interactive intelligent panel

Model Number : KI-D086L

Report No. : CTA25110401602

Reviewed By : Eric Wang

FCC Appendix RF Test Data for 2.4GWIFI ANT1

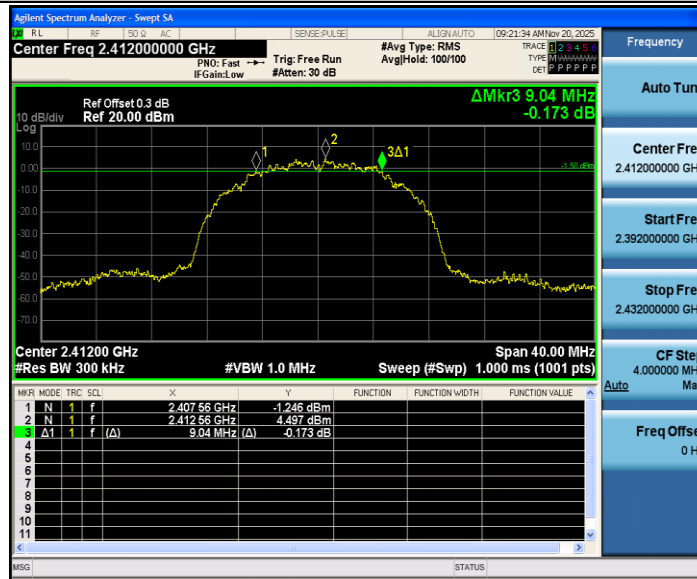
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.560	2416.600	0.5	PASS
		2437	9.200	2432.440	2441.640	0.5	PASS
		2462	8.720	2457.480	2466.200	0.5	PASS
11G	Ant1	2412	16.280	2403.960	2420.240	0.5	PASS
		2437	16.320	2428.880	2445.200	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.160	2403.480	2420.640	0.5	PASS
		2437	17.280	2428.360	2445.640	0.5	PASS
		2462	17.240	2453.480	2470.720	0.5	PASS
11N40SISO	Ant1	2422	33.600	2405.520	2439.120	0.5	PASS
		2437	34.080	2420.120	2454.200	0.5	PASS
		2452	33.920	2435.200	2469.120	0.5	PASS
11AX20SISO	Ant1	2412	17.400	2403.360	2420.760	0.5	PASS
		2437	17.320	2428.400	2445.720	0.5	PASS
		2462	17.280	2453.400	2470.680	0.5	PASS
11AX40SISO	Ant1	2422	33.680	2405.440	2439.120	0.5	PASS
		2437	33.600	2420.440	2454.040	0.5	PASS
		2452	33.920	2435.120	2469.040	0.5	PASS

Test Graphs

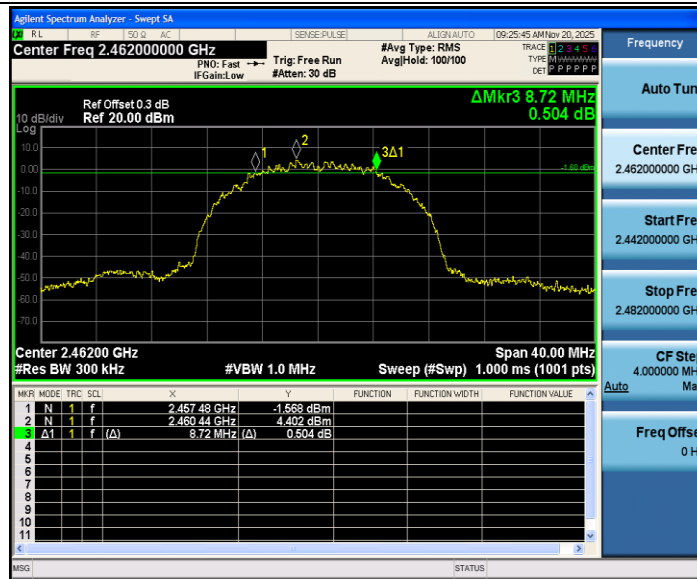
11B_Ant1_2412



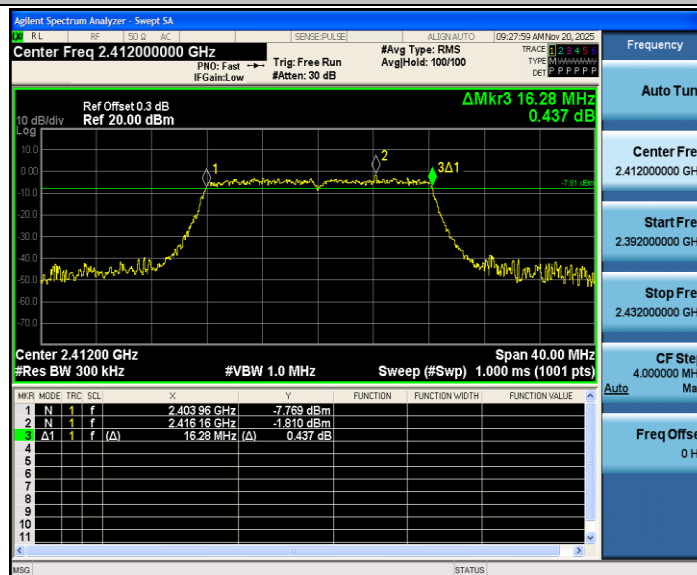
11B_Ant1_2437



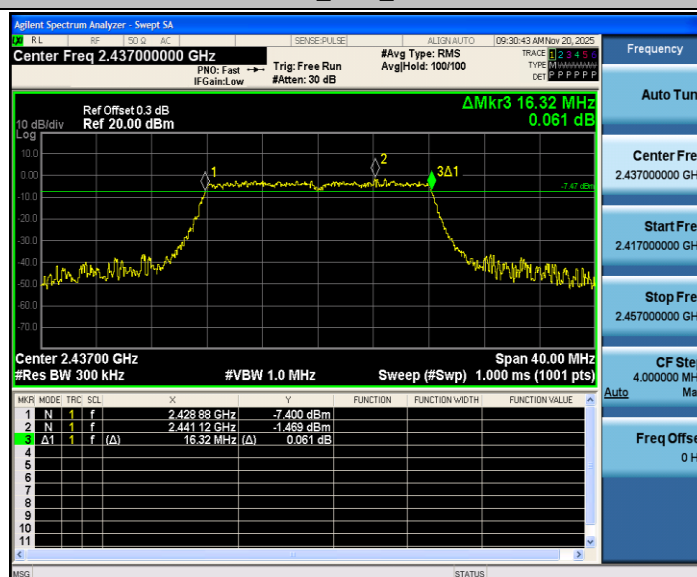
11B_Ant1_2462



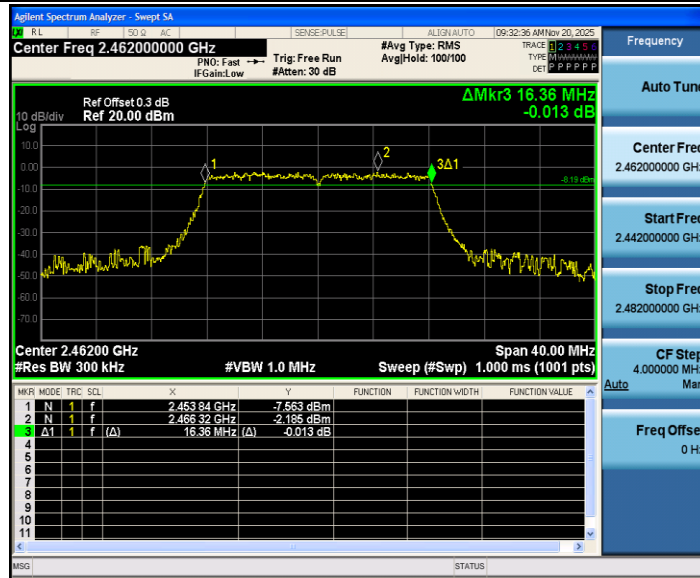
11G_Ant1_2412



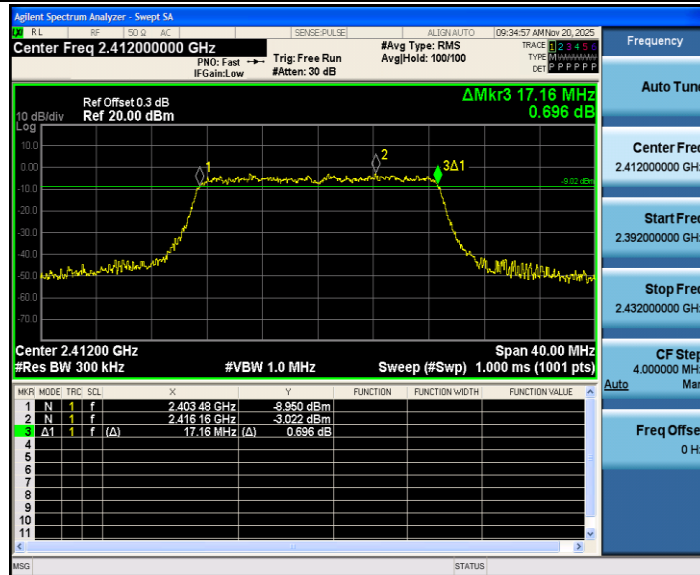
11G_Ant1_2437



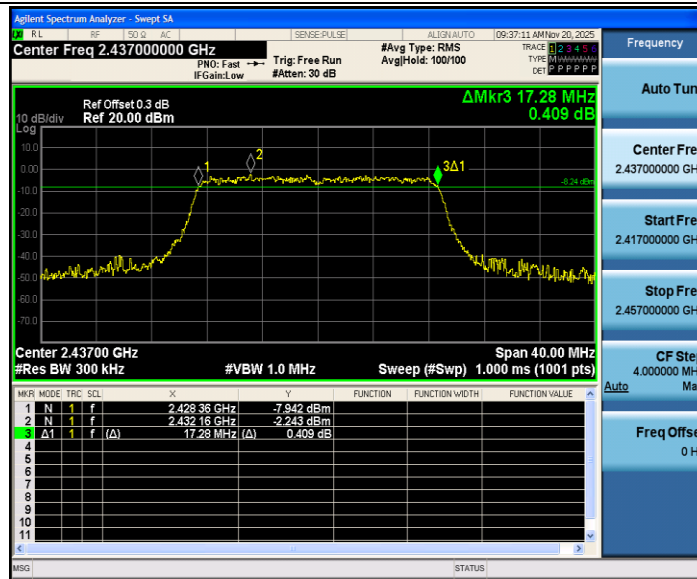
11G_Ant1_2462



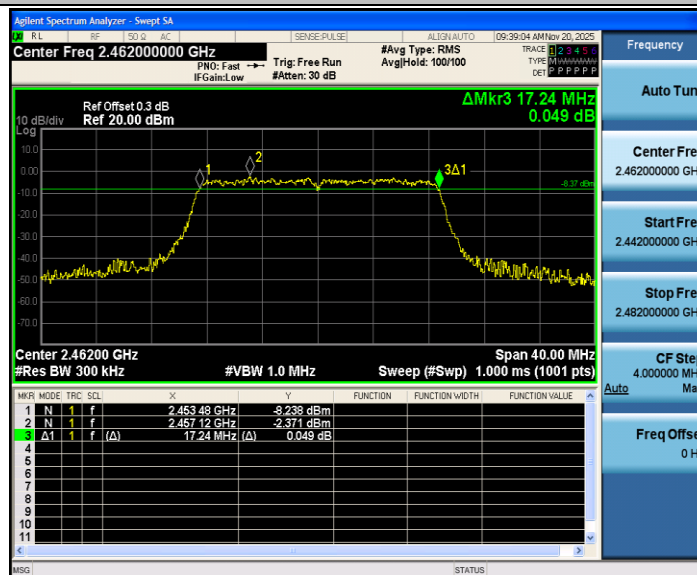
11N20SISO_Ant1_2412



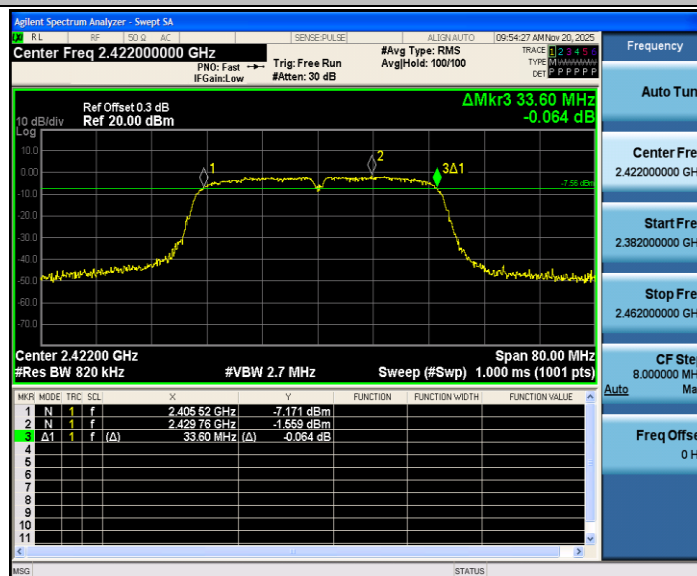
11N20SISO_Ant1_2437



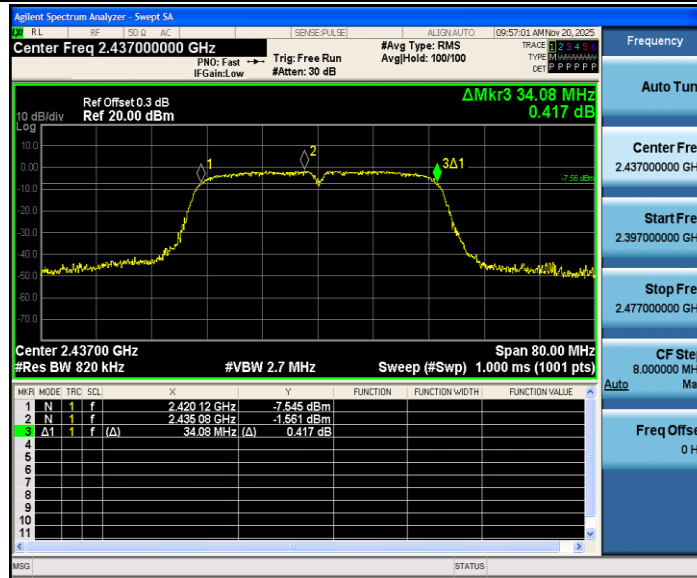
11N20SISO_Ant1_2462



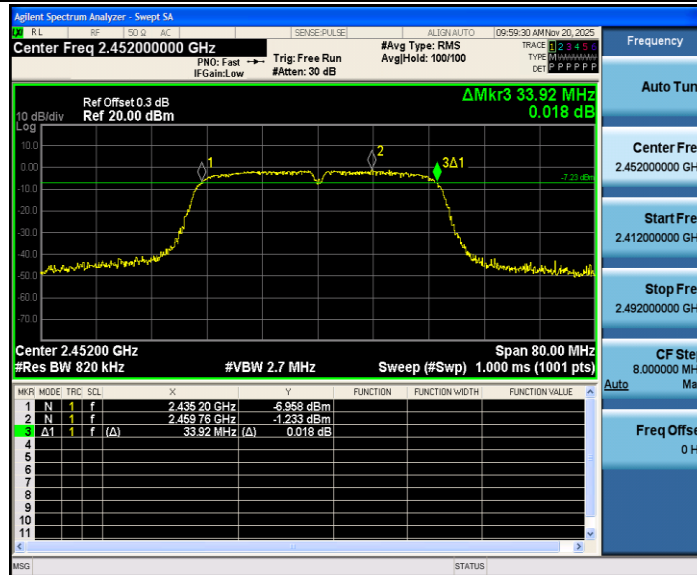
11N40SISO_Ant1_2422



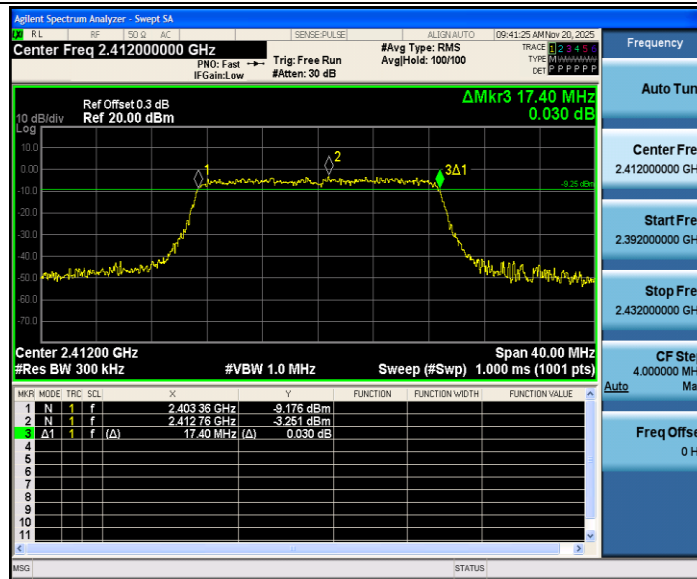
11N40SISO_Ant1_2437



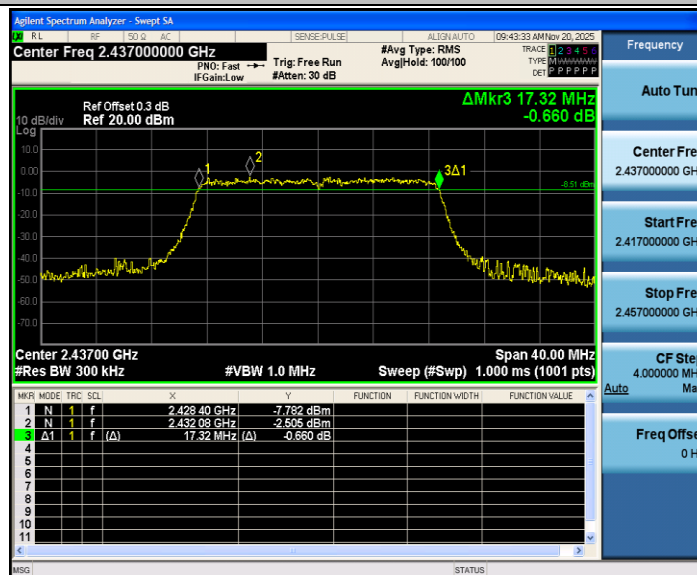
11N40SISO_Ant1_2452



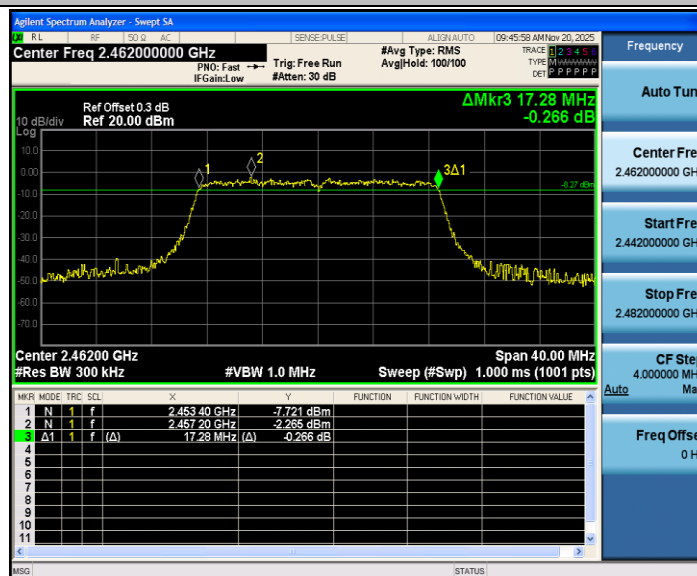
11AX20SISO_Ant1_2412



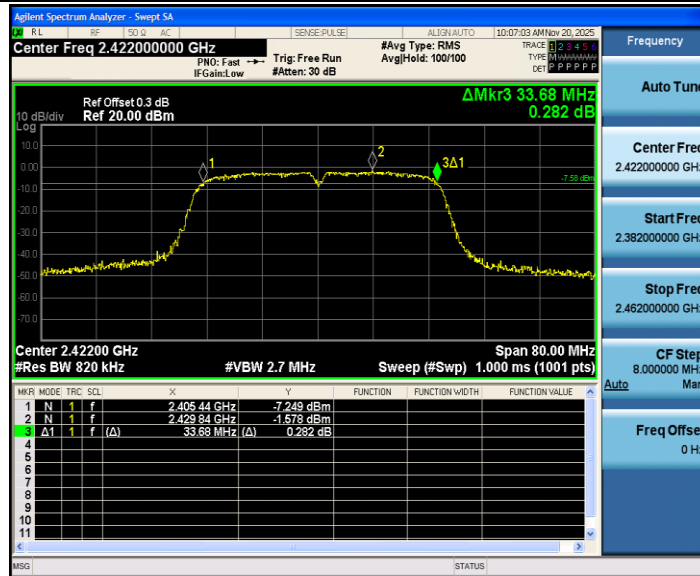
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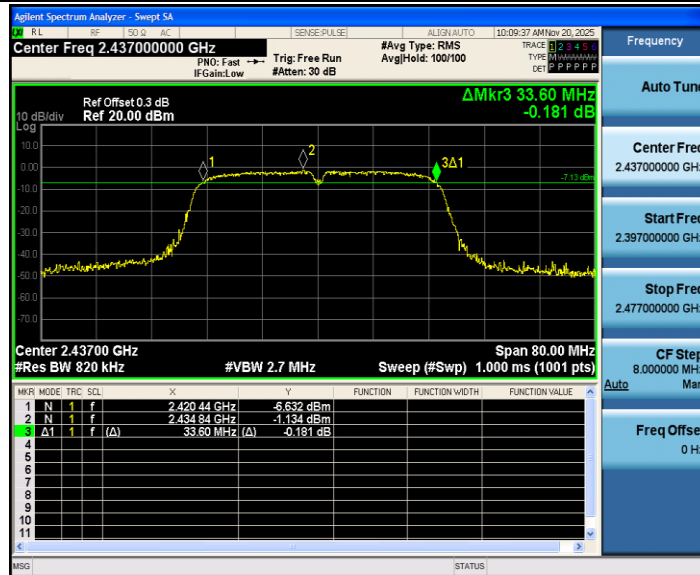
11AX20SISO_Ant1_2462



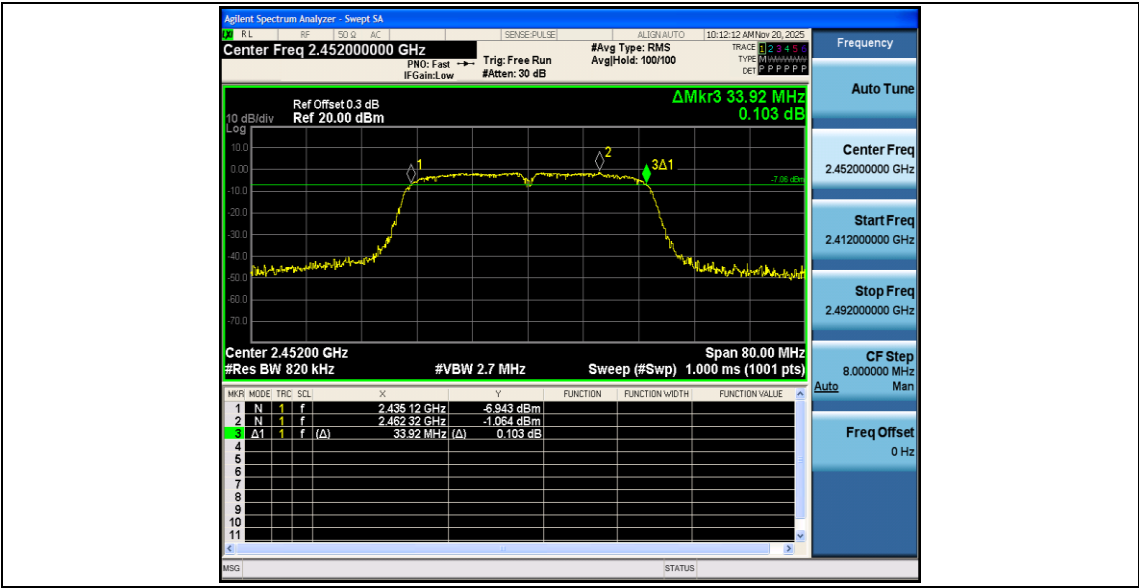
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



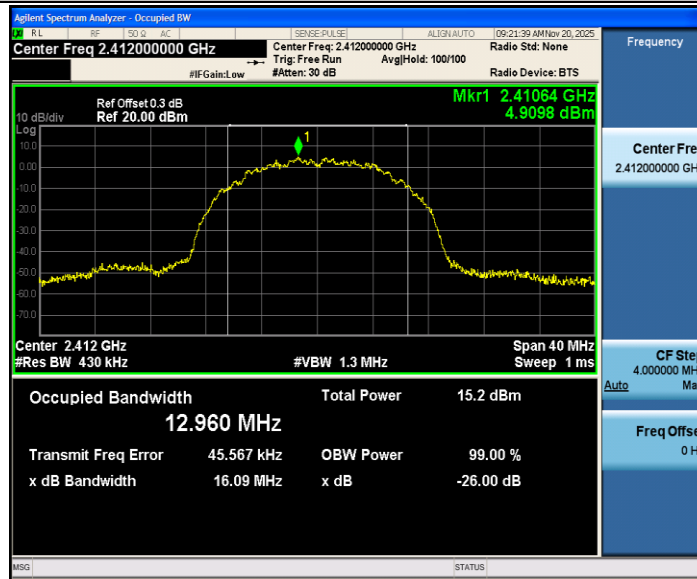
Appendix B: Occupied Channel Bandwidth

Test Result

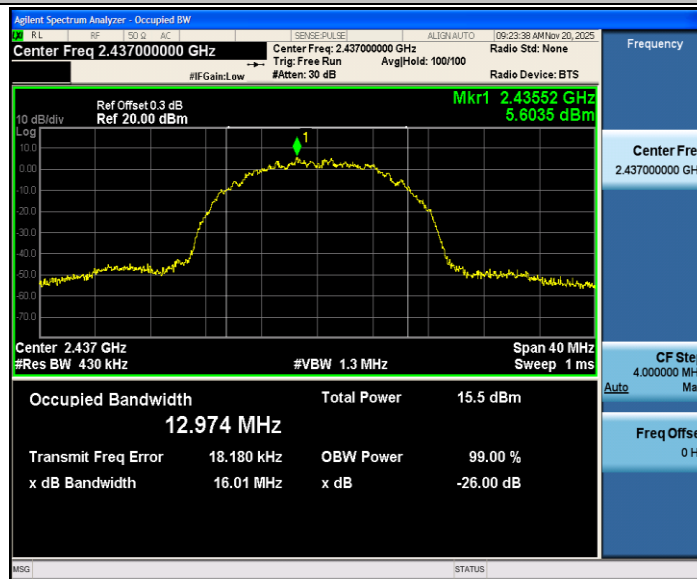
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.960	2405.5656	2418.5256	---	---
		2437	12.974	2430.5312	2443.5052	---	---
		2462	13.018	2455.5063	2468.5243	---	---
11G	Ant1	2412	16.593	2403.7396	2420.3326	---	---
		2437	16.515	2428.7828	2445.2978	---	---
		2462	16.622	2453.7066	2470.3286	---	---
11N20SISO	Ant1	2412	17.449	2403.3403	2420.7893	---	---
		2437	17.444	2428.3057	2445.7497	---	---
		2462	17.449	2453.3057	2470.7547	---	---
11N40SISO	Ant1	2422	34.845	2404.7709	2439.6159	---	---
		2437	34.809	2419.7168	2454.5258	---	---
		2452	34.819	2434.6929	2469.5119	---	---
11AX20SISO	Ant1	2412	17.431	2403.3306	2420.7616	---	---
		2437	17.440	2428.3160	2445.7560	---	---
		2462	17.450	2453.2973	2470.7473	---	---
11AX40SISO	Ant1	2422	34.784	2404.7711	2439.5551	---	---
		2437	34.796	2419.7574	2454.5534	---	---
		2452	34.738	2434.7023	2469.4403	---	---

Test Graphs

11B_Ant1_2412



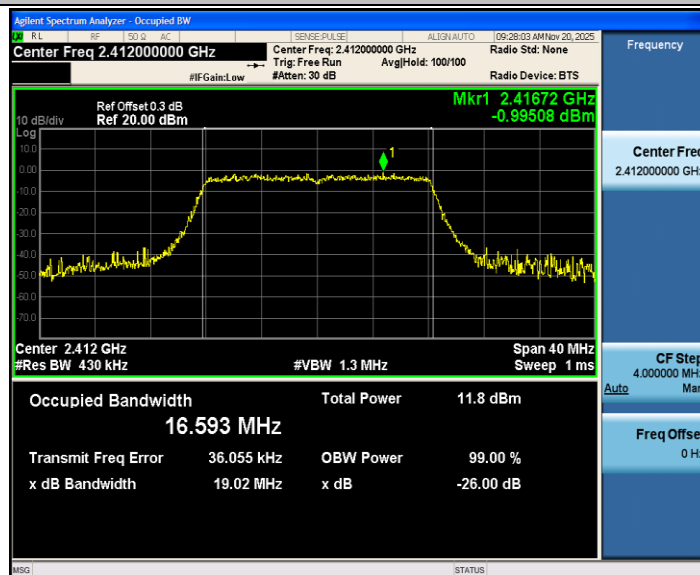
11B_Ant1_2437



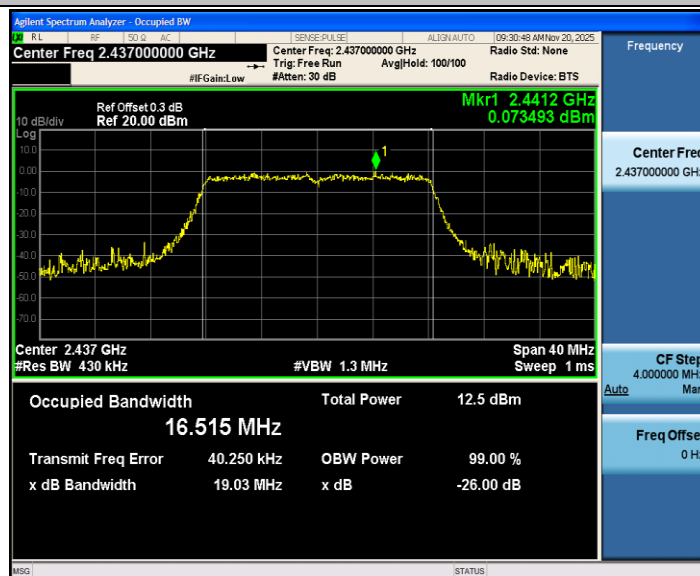
11B_Ant1_2462



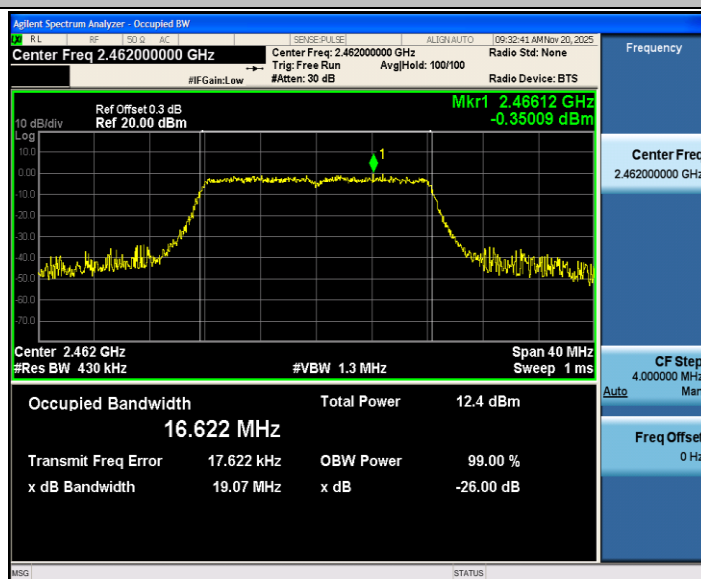
11G_Ant1_2412



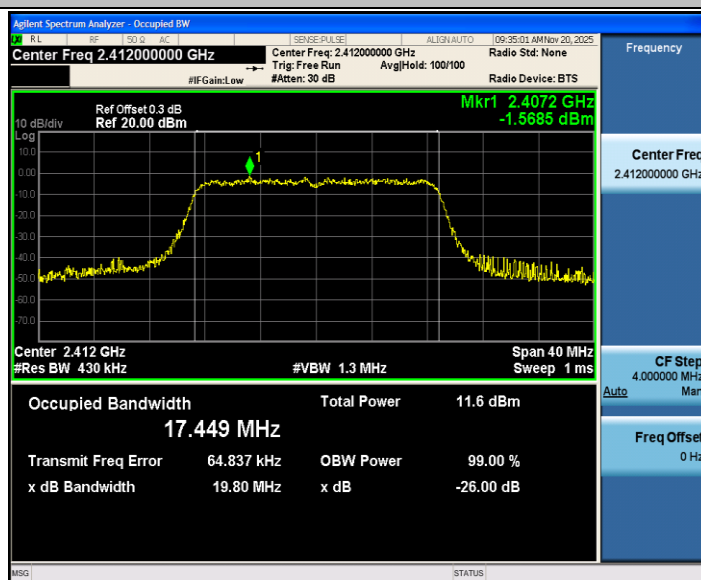
11G_Ant1_2437



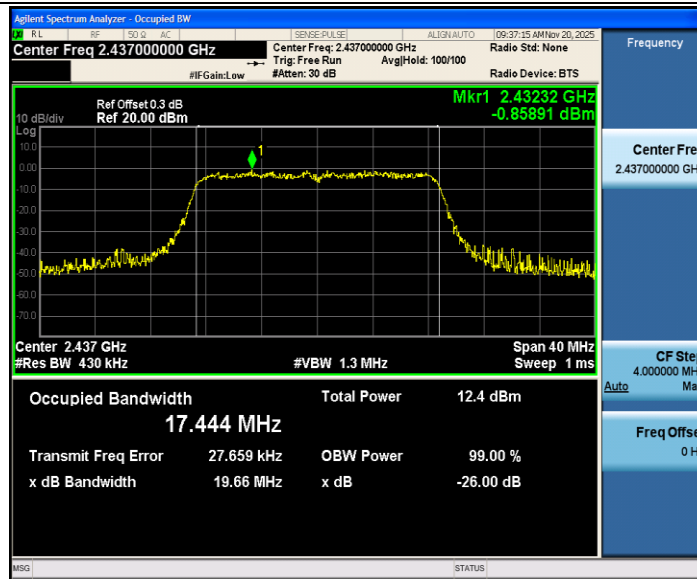
11G_Ant1_2462



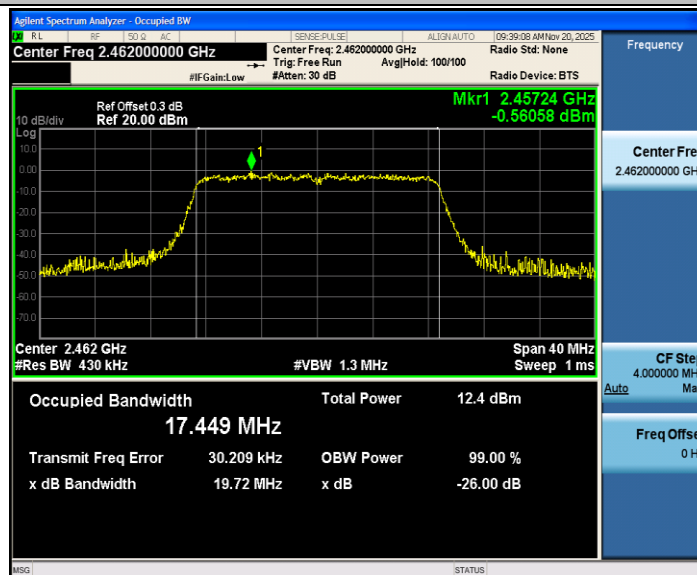
11N20SISO_Ant1_2412



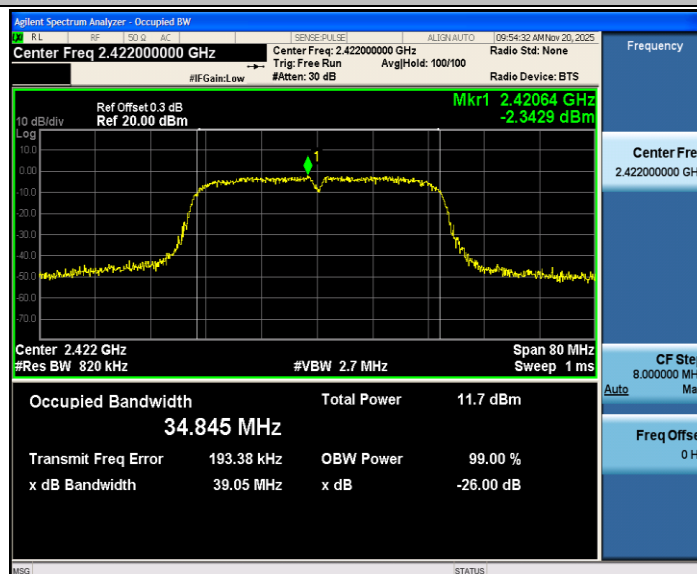
11N20SISO_Ant1_2437



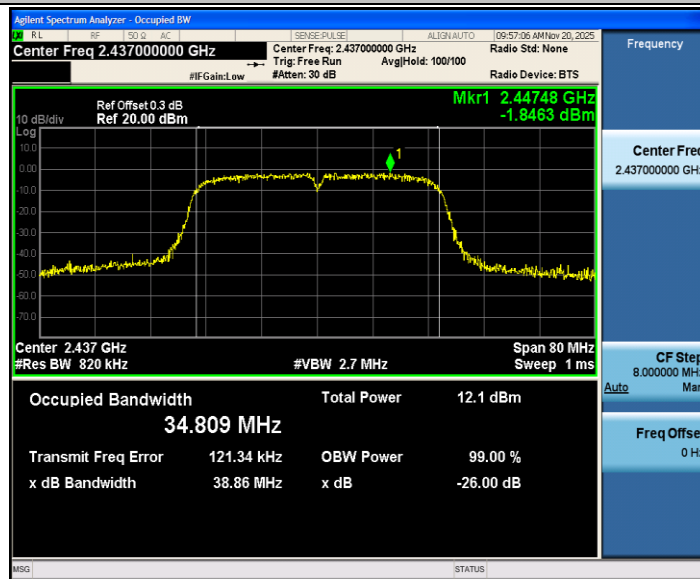
11N20SISO_Ant1_2462



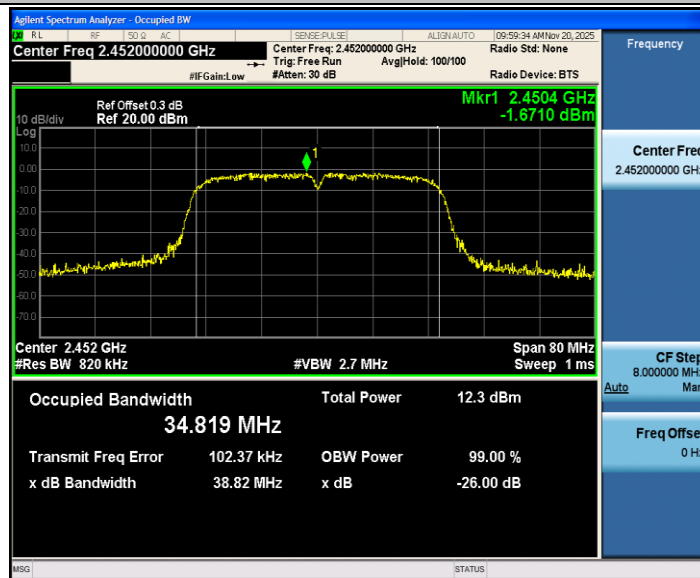
11N40SISO_Ant1_2422



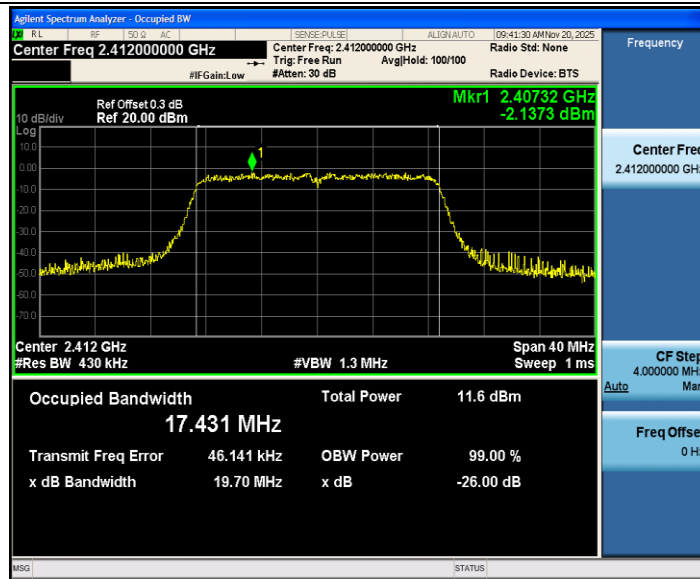
11N40SISO_Ant1_2437



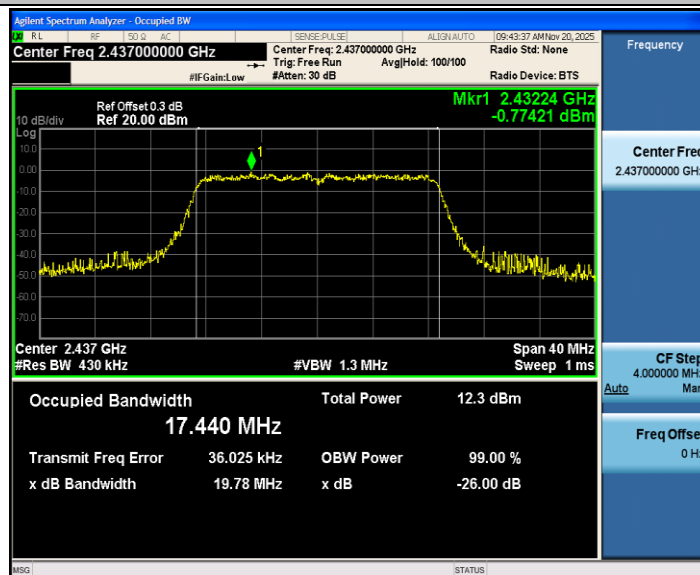
11N40SISO_Ant1_2452



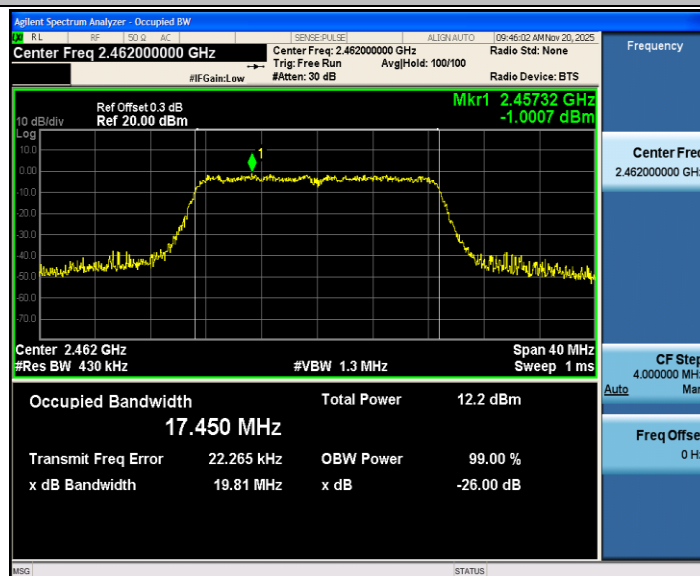
11AX20SISO_Ant1_2412



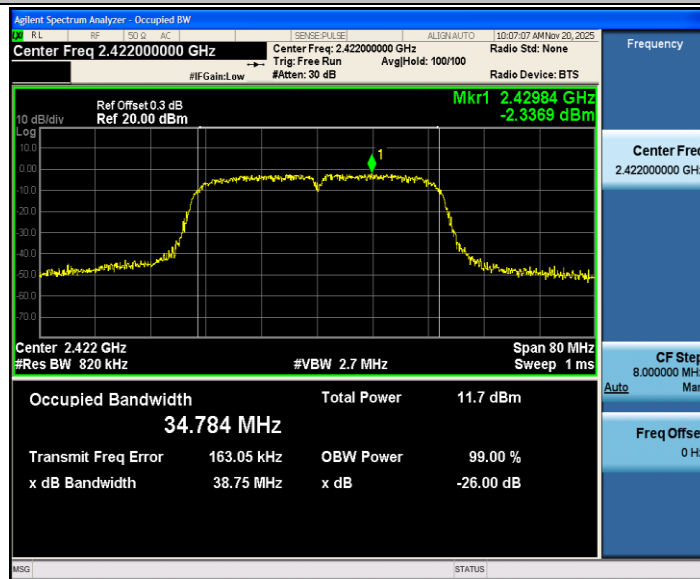
11AX20SISO_Ant1_2437



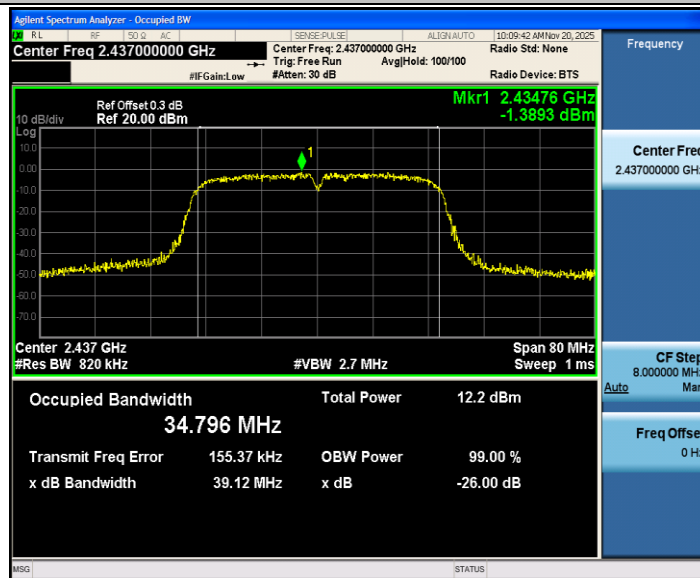
11AX20SISO_Ant1_2462



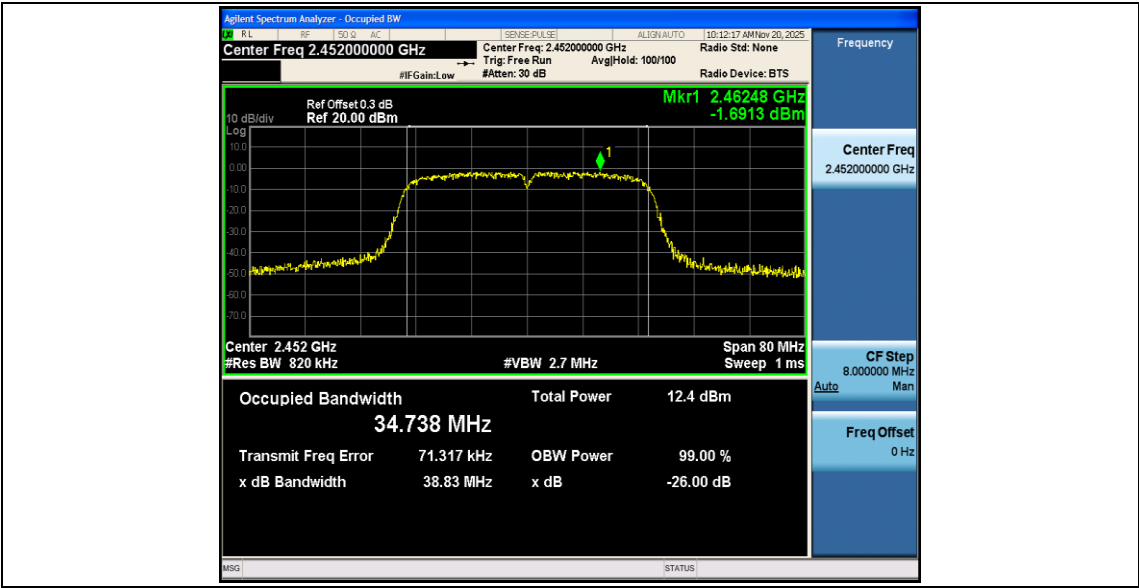
11AX40SISO_Ant1_2422



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	14.64	≤30.00	PASS
		2437	15.11	≤30.00	PASS
		2462	14.62	≤30.00	PASS
11G	Ant1	2412	12.63	≤30.00	PASS
		2437	13.32	≤30.00	PASS
		2462	13.33	≤30.00	PASS
11N20SISO	Ant1	2412	12.88	≤30.00	PASS
		2437	13.55	≤30.00	PASS
		2462	13.49	≤30.00	PASS
11N40SISO	Ant1	2422	11.96	≤30.00	PASS
		2437	12.42	≤30.00	PASS
		2452	12.57	≤30.00	PASS
11AX20SISO	Ant1	2412	12.76	≤30.00	PASS
		2437	13.62	≤30.00	PASS
		2462	13.50	≤30.00	PASS
11AX40SISO	Ant1	2422	12.05	≤30.00	PASS
		2437	12.47	≤30.00	PASS
		2452	12.70	≤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	-14.53	≤8.00	PASS
		2437	-14.59	≤8.00	PASS
		2462	-14.83	≤8.00	PASS
11G	Ant1	2412	-21.79	≤8.00	PASS
		2437	-21.04	≤8.00	PASS
		2462	-21.15	≤8.00	PASS
11N20SISO	Ant1	2412	-21.27	≤8.00	PASS
		2437	-21.39	≤8.00	PASS
		2462	-21.23	≤8.00	PASS
11N40SISO	Ant1	2422	-22.39	≤8.00	PASS
		2437	-23.04	≤8.00	PASS
		2452	-22.48	≤8.00	PASS
11AX20SISO	Ant1	2412	-21.60	≤8.00	PASS
		2437	-20.77	≤8.00	PASS
		2462	-21.02	≤8.00	PASS
11AX40SISO	Ant1	2422	-23.28	≤8.00	PASS
		2437	-22.60	≤8.00	PASS
		2452	-22.68	≤8.00	PASS

Test Graphs

11B_Ant1_2412



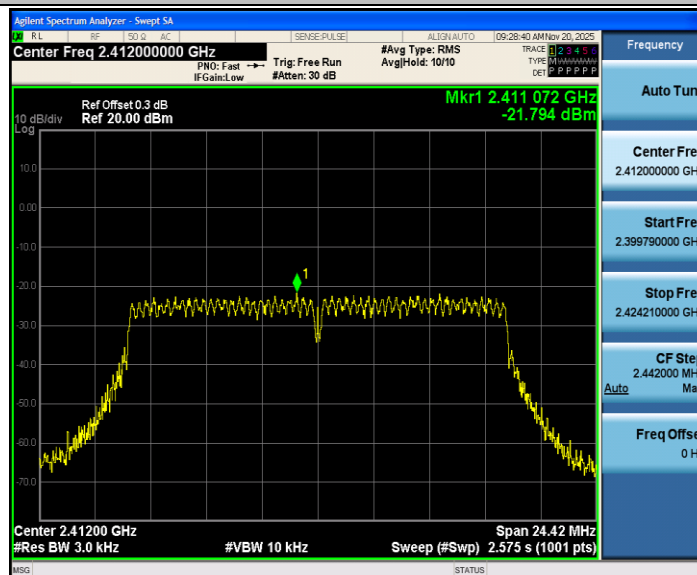
11B_Ant1_2437



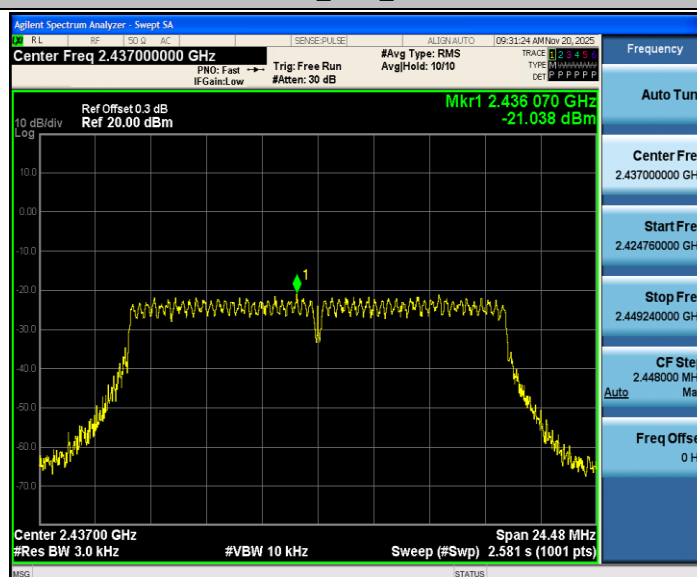
11B_Ant1_2462



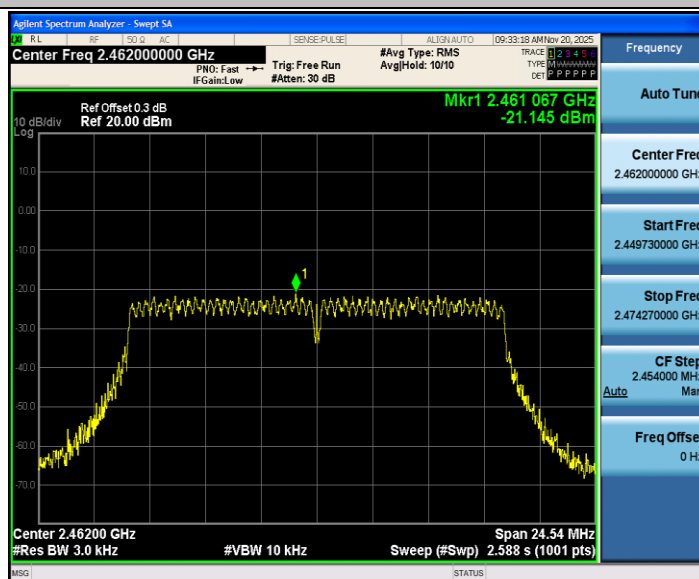
11G_Ant1_2412



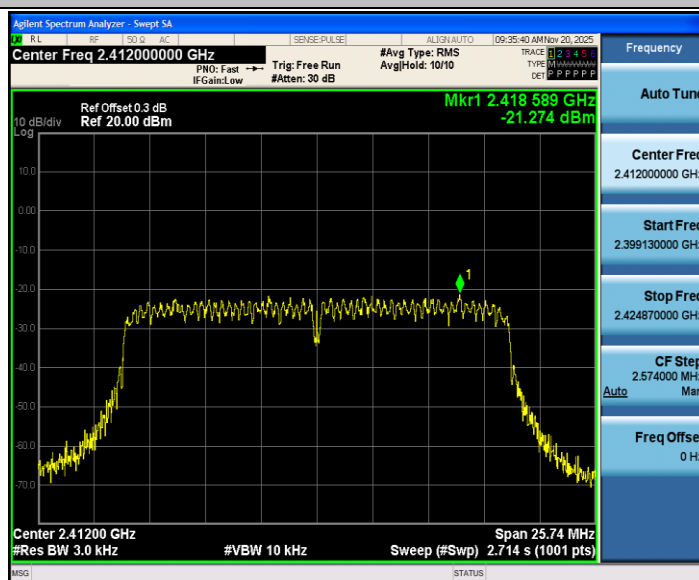
11G_Ant1_2437



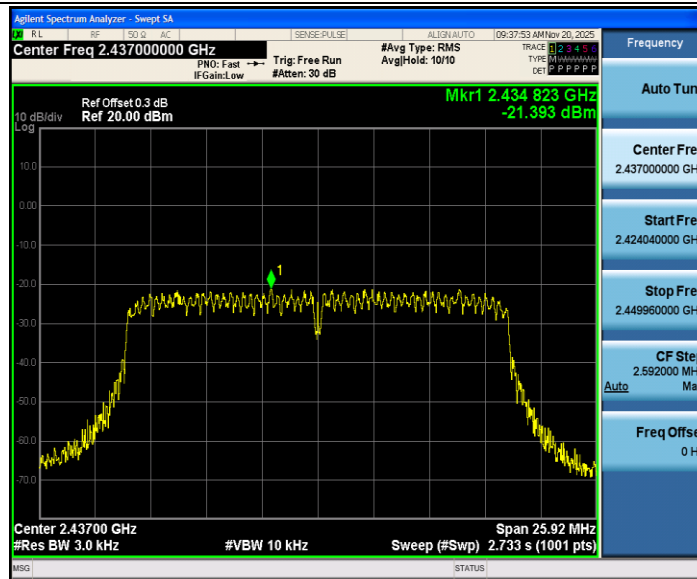
11G_Ant1_2462



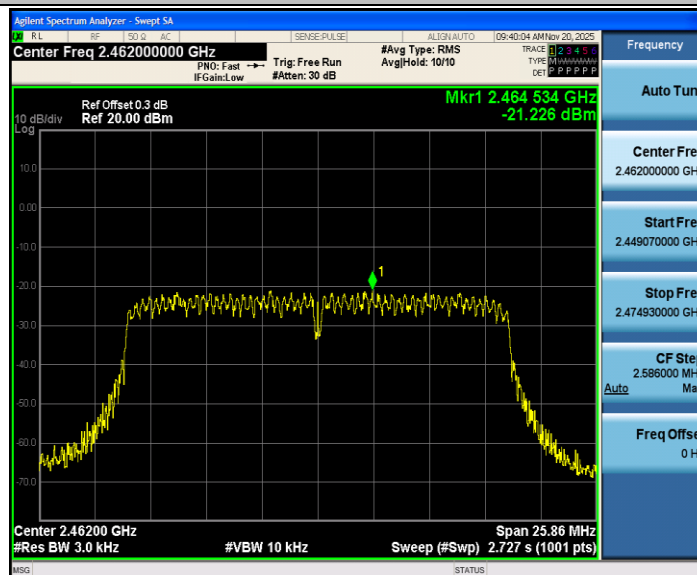
11N20SISO_Ant1_2412



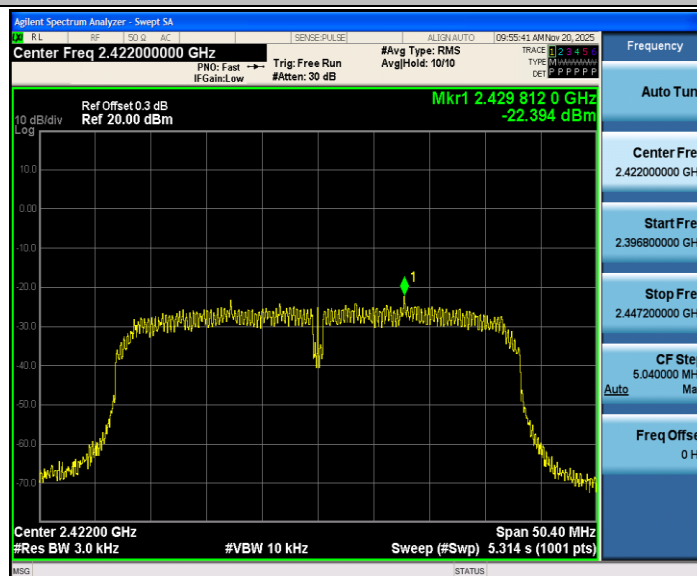
11N20SISO_Ant1_2437



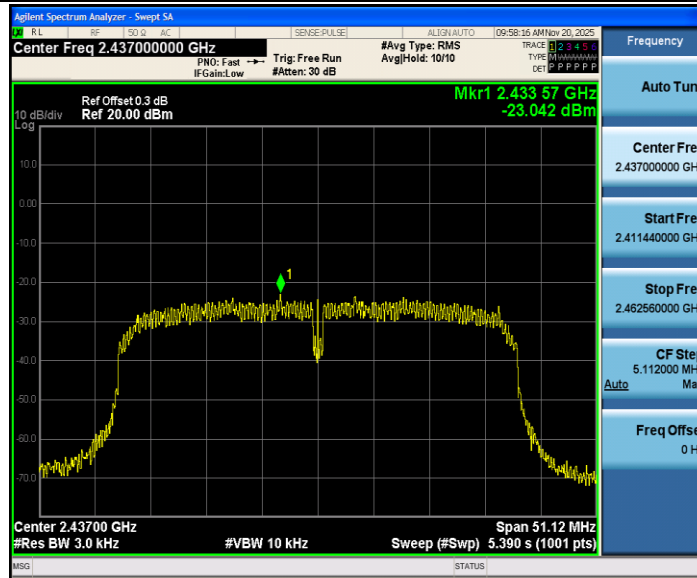
11N20SISO_Ant1_2462



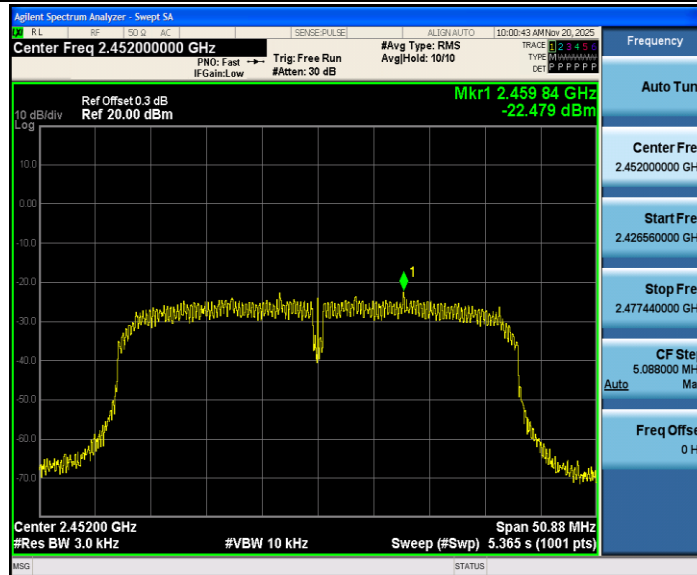
11N40SISO_Ant1_2422



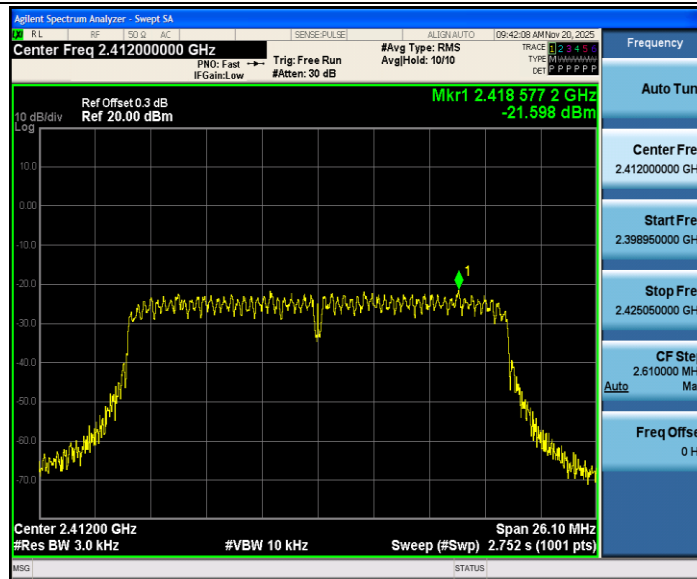
11N40SISO_Ant1_2437



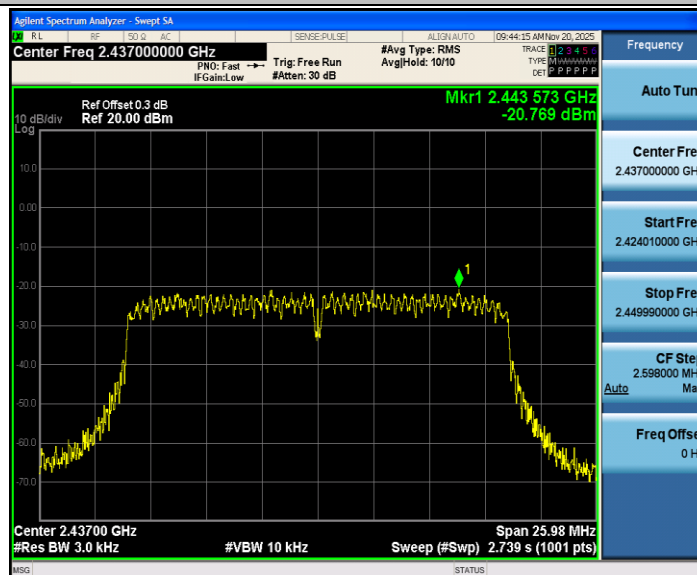
11N40SISO_Ant1_2452



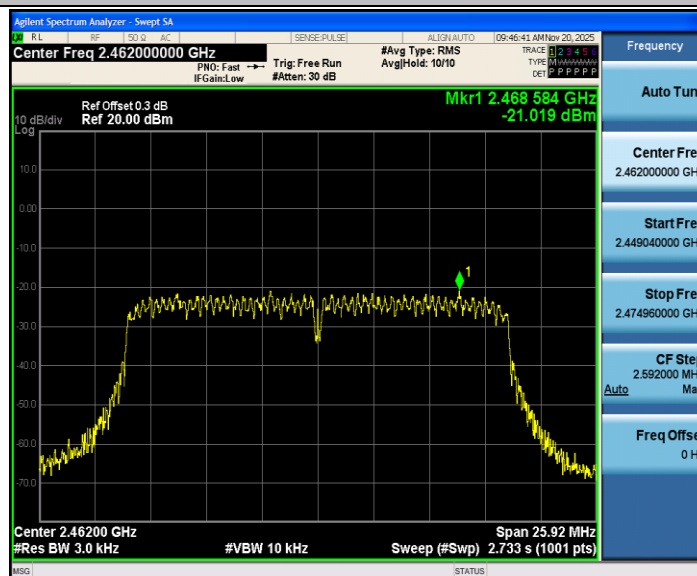
11AX20SISO_Ant1_2412



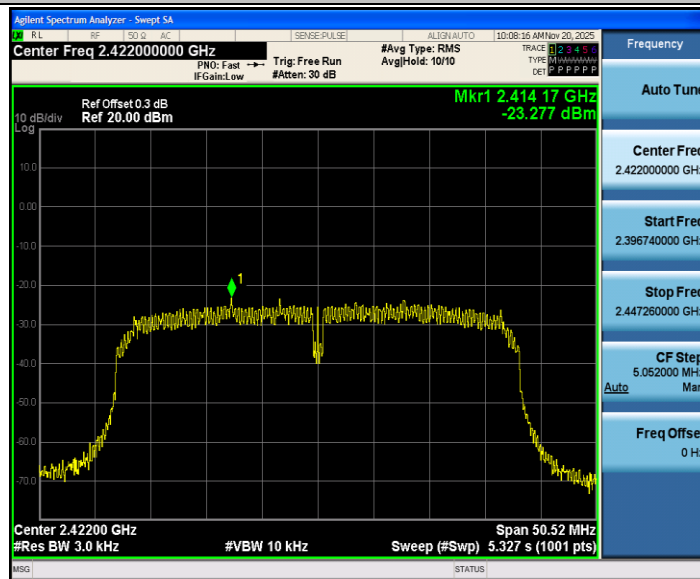
11AX20SISO_Ant1_2437



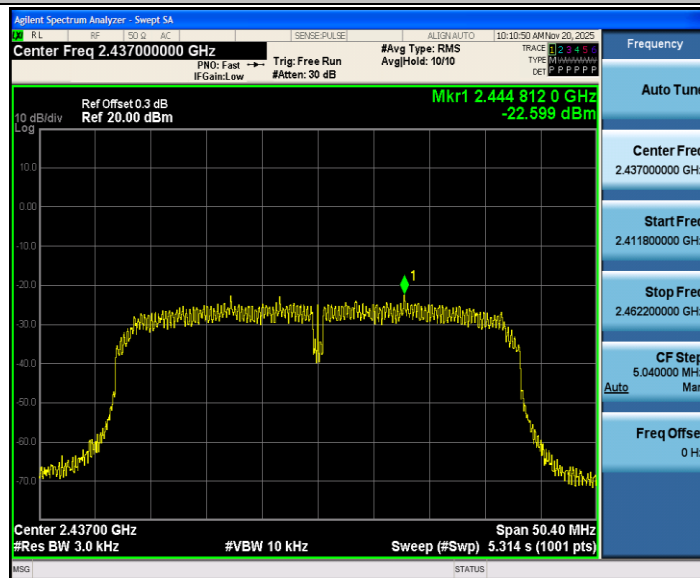
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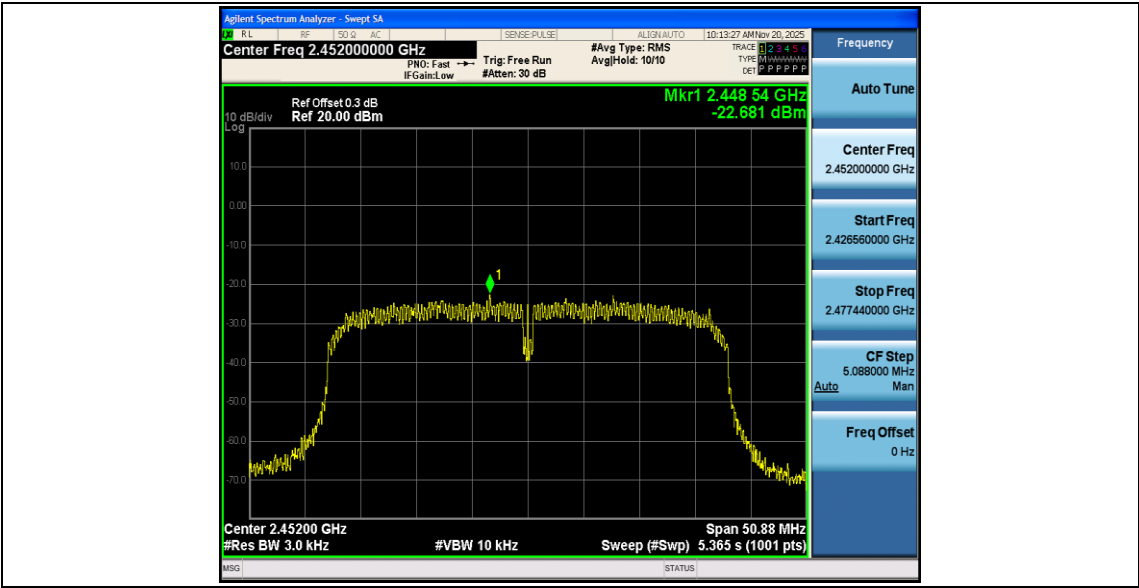
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



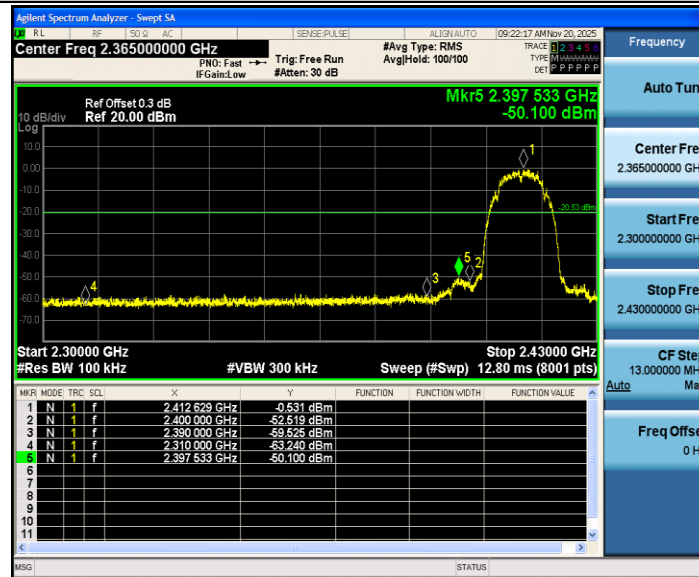
Appendix E: Band edge measurements

Test Result

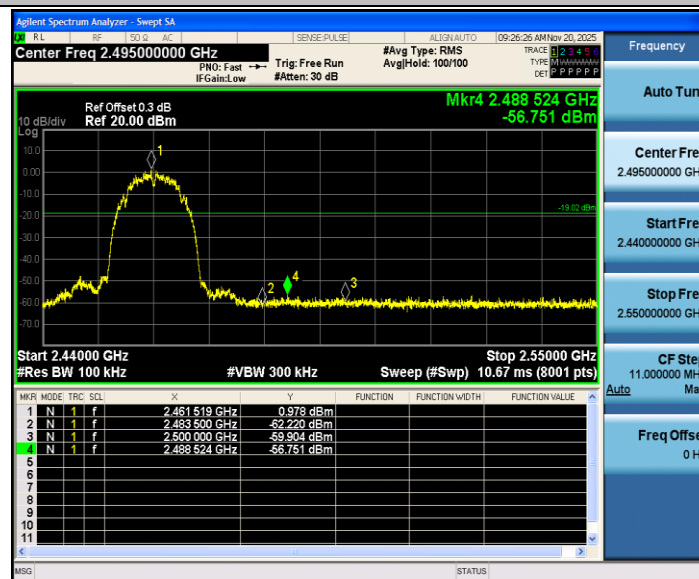
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.53	-50.1	≤-20.53	PASS
		High	2462	0.98	-56.75	≤-19.02	PASS
11G	Ant1	Low	2412	-7.54	-47.57	≤-27.54	PASS
		High	2462	-7.34	-54.02	≤-27.34	PASS
11N20SISO	Ant1	Low	2412	-8.14	-46.62	≤-28.14	PASS
		High	2462	-7.09	-54.53	≤-27.09	PASS
11N40SISO	Ant1	Low	2422	-10.75	-48.79	≤-30.75	PASS
		High	2452	-10.36	-54.34	≤-30.36	PASS
11AX20SISO	Ant1	Low	2412	-7.81	-46.88	≤-27.81	PASS
		High	2462	-7.31	-54.52	≤-27.31	PASS
11AX40SISO	Ant1	Low	2422	-11.08	-48.79	≤-31.08	PASS
		High	2452	-10.82	-54.88	≤-30.82	PASS

Test Graphs

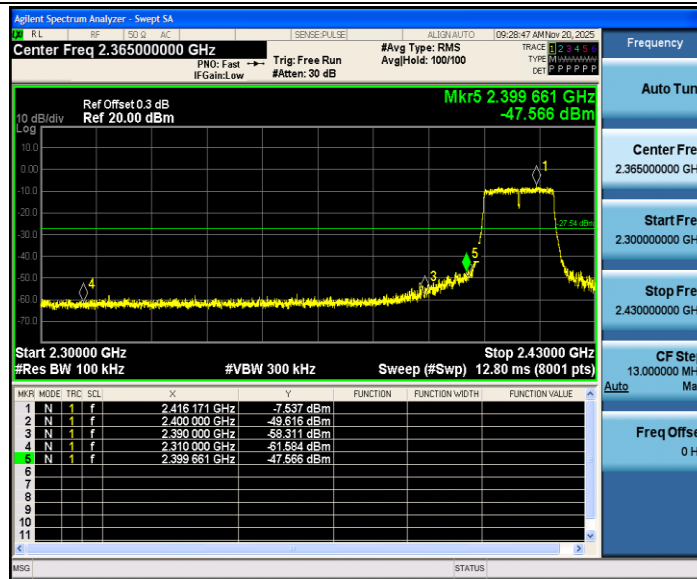
11B_Ant1_Low_2412



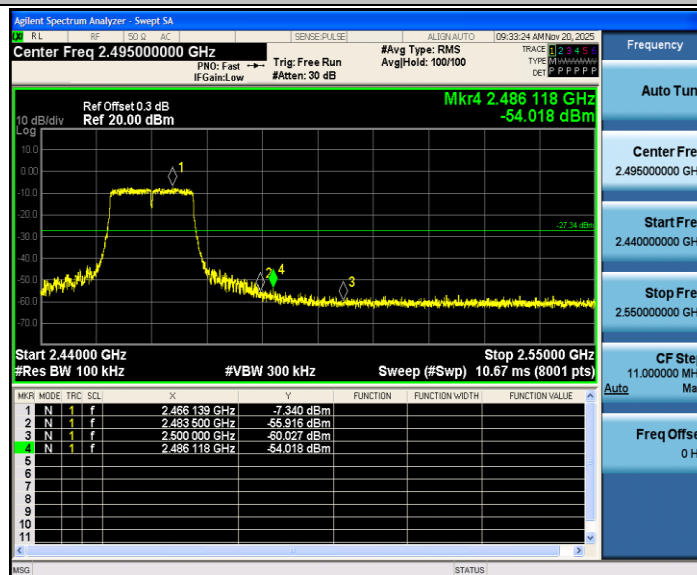
11B_Ant1_High_2462



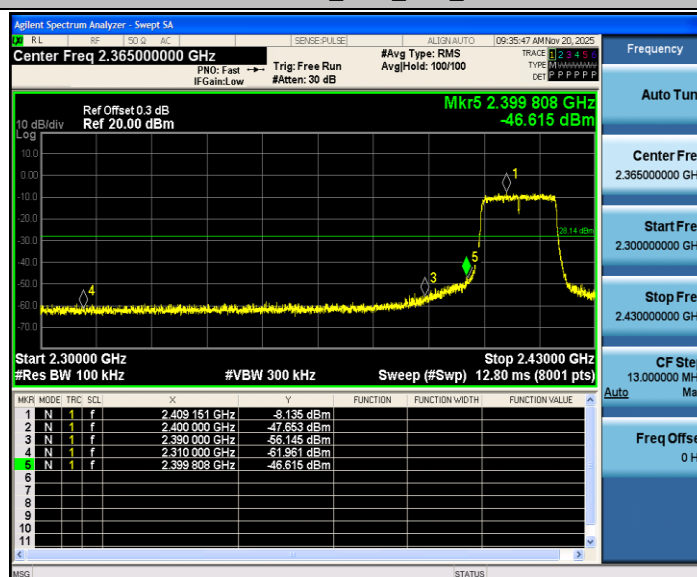
11G_Ant1_Low_2412



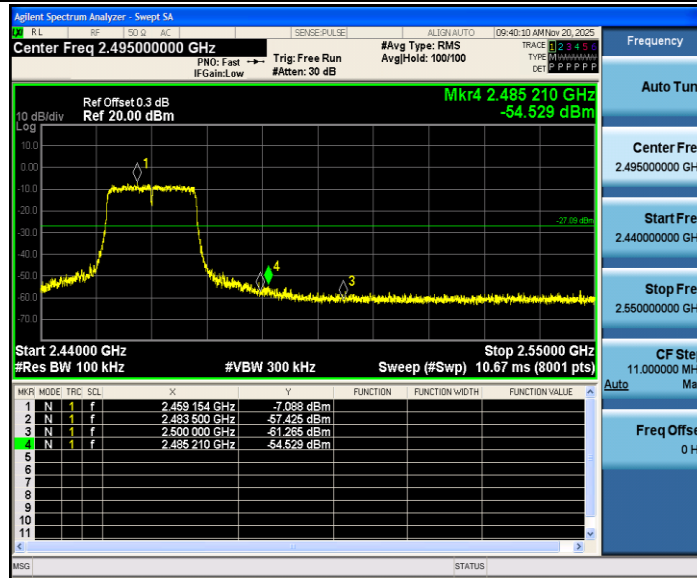
11G_Ant1_High_2462



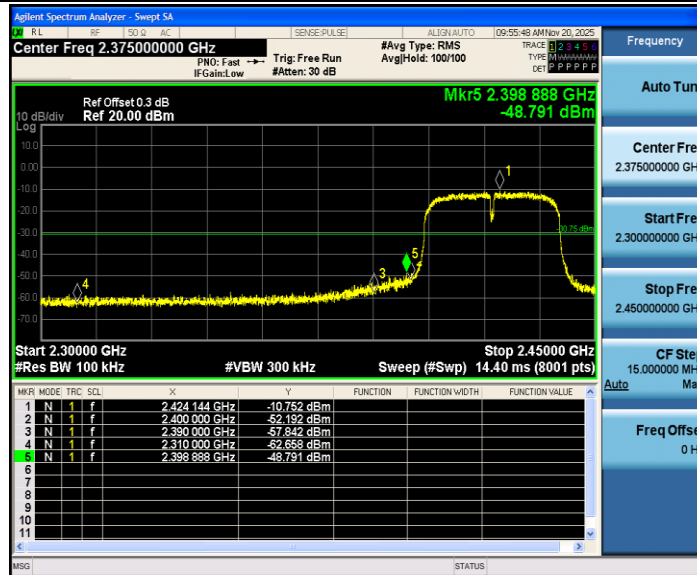
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452