

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BO6V-KI-E086GB

Company : SHENZHEN KINGIMAGE TECHNOLOGY CO.,LTD.

EUT : Interactive intelligent panel

Model Number : KI-E086GB

Report No. : CTA25110401202

Reviewed By : Eric Wang

FCC Appendix RF Test Data for 2.4GWIFI ANT1

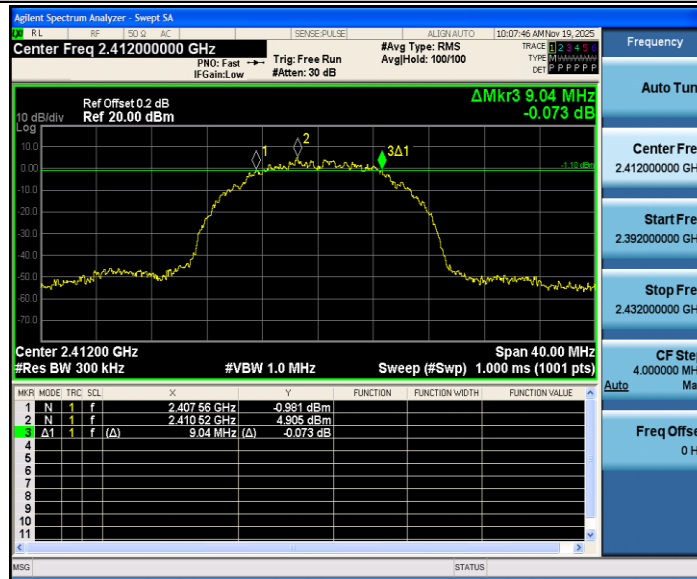
Appendix A: DTS Bandwidth

Test Result

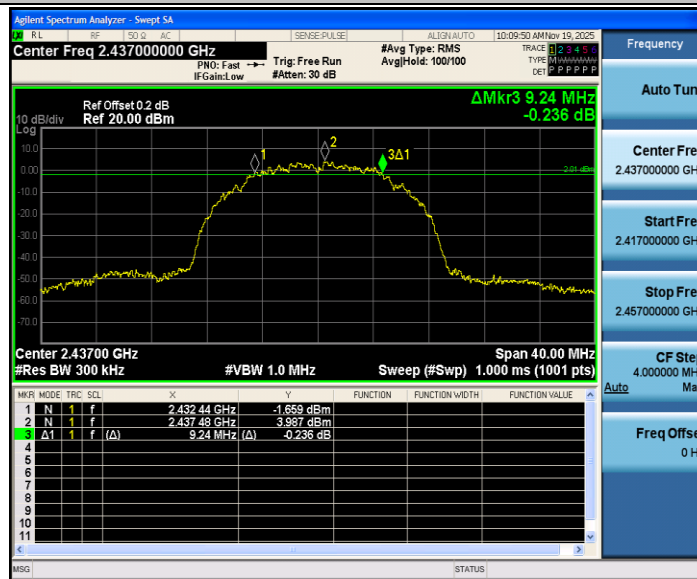
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.560	2416.600	0.5	PASS
		2437	9.240	2432.440	2441.680	0.5	PASS
		2462	8.720	2457.640	2466.360	0.5	PASS
11G	Ant1	2412	16.280	2403.920	2420.200	0.5	PASS
		2437	16.360	2428.880	2445.240	0.5	PASS
		2462	16.240	2453.920	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.280	2403.440	2420.720	0.5	PASS
		2437	17.320	2428.360	2445.680	0.5	PASS
		2462	17.360	2453.400	2470.760	0.5	PASS
11N40SISO	Ant1	2422	33.360	2405.520	2438.880	0.5	PASS
		2437	33.680	2420.360	2454.040	0.5	PASS
		2452	34.000	2435.120	2469.120	0.5	PASS
11AX20SISO	Ant1	2412	17.280	2403.400	2420.680	0.5	PASS
		2437	17.360	2428.360	2445.720	0.5	PASS
		2462	17.080	2453.480	2470.560	0.5	PASS
11AX40SISO	Ant1	2422	33.440	2405.520	2438.960	0.5	PASS
		2437	33.360	2420.520	2453.880	0.5	PASS
		2452	34.160	2435.040	2469.200	0.5	PASS

Test Graphs

11B_Ant1_2412



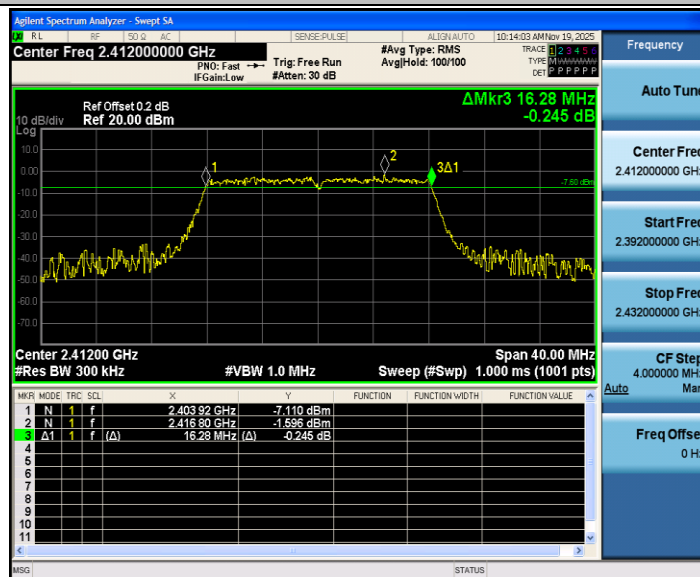
11B_Ant1_2437



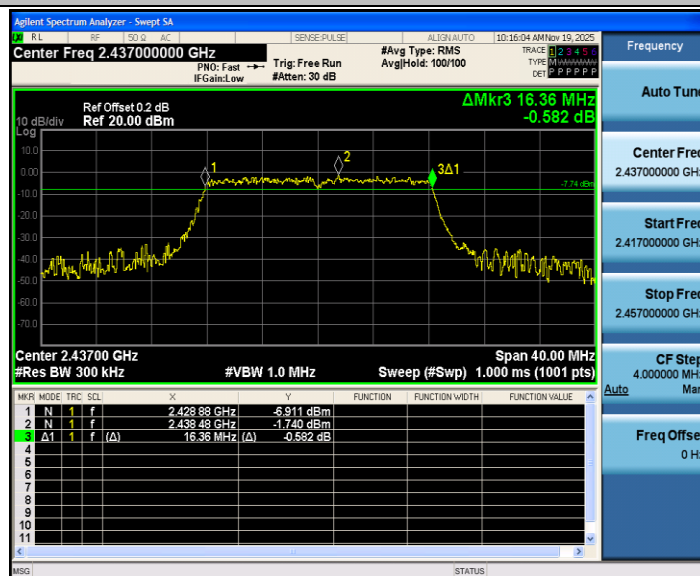
11B_Ant1_2462



11G_Ant1_2412



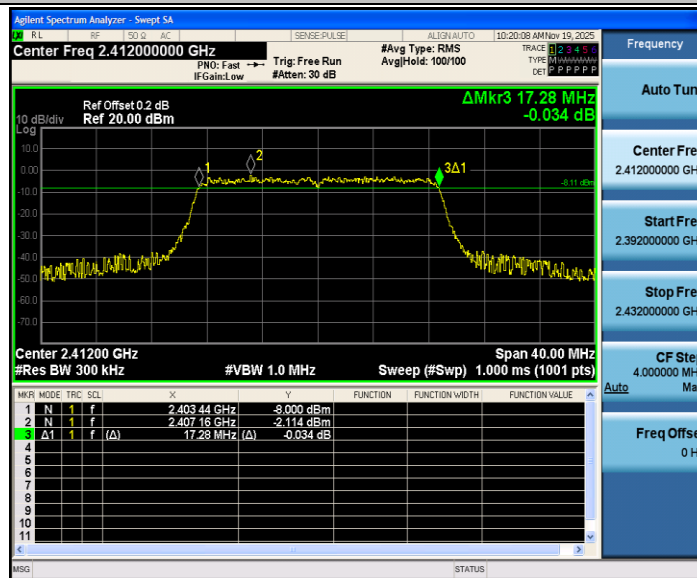
11G_Ant1_2437



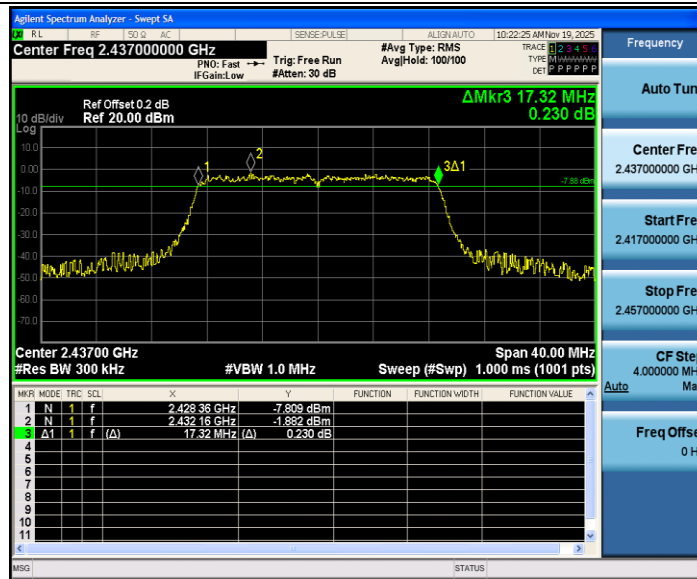
11G_Ant1_2462



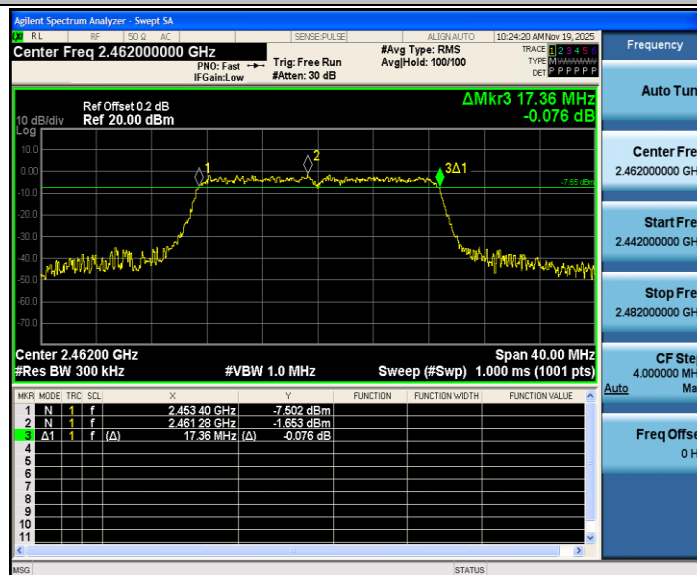
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



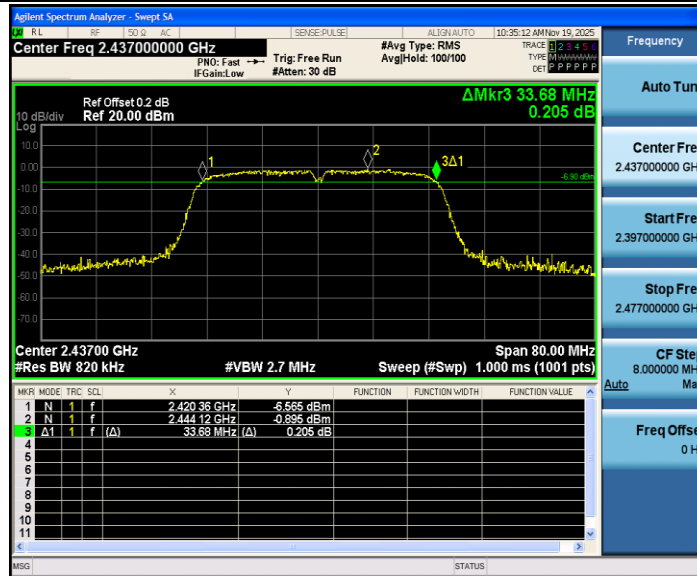
11N20SISO_Ant1_2462



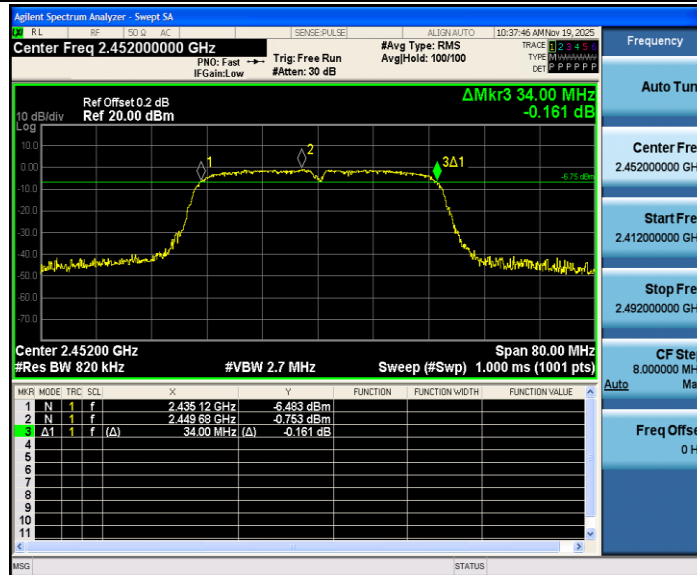
11N40SISO_Ant1_2422



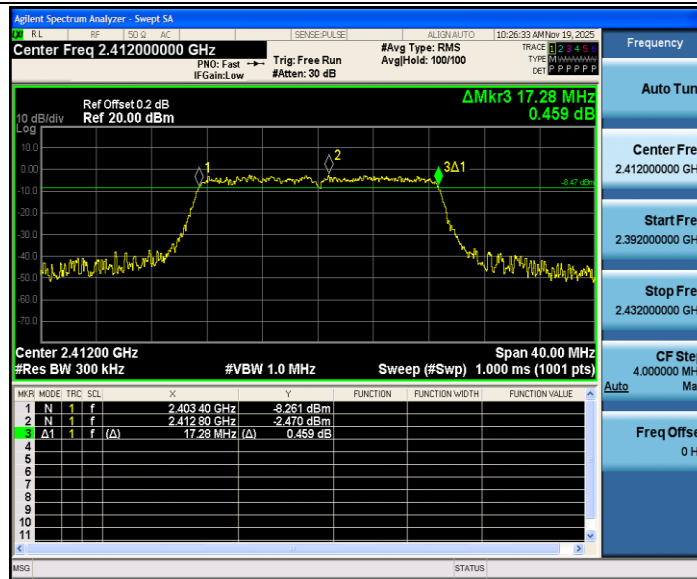
11N40SISO_Ant1_2437



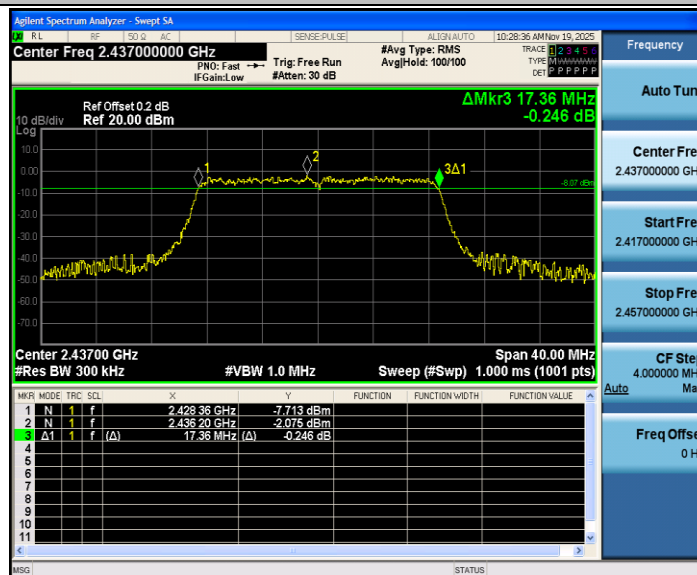
11N40SISO_Ant1_2452



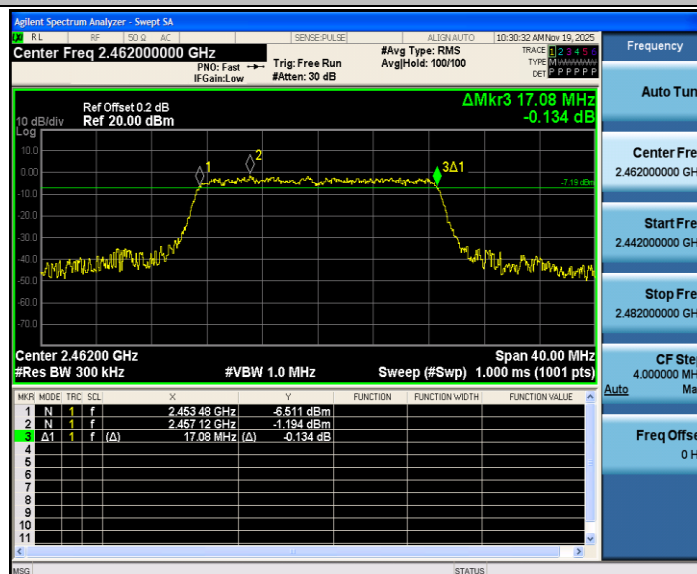
11AX20SISO_Ant1_2412



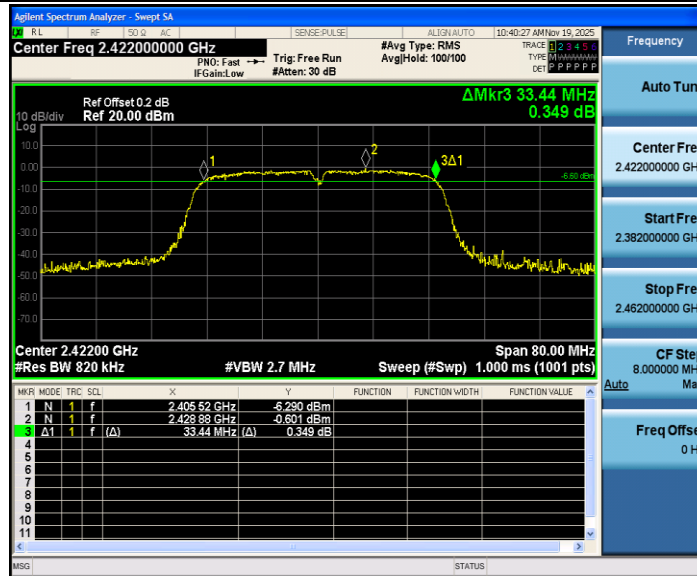
11AX20SISO_Ant1_2437



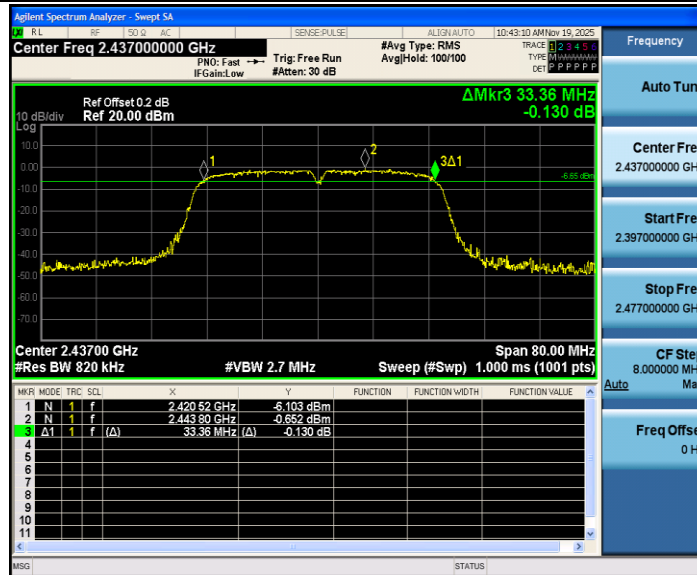
11AX20SISO_Ant1_2462



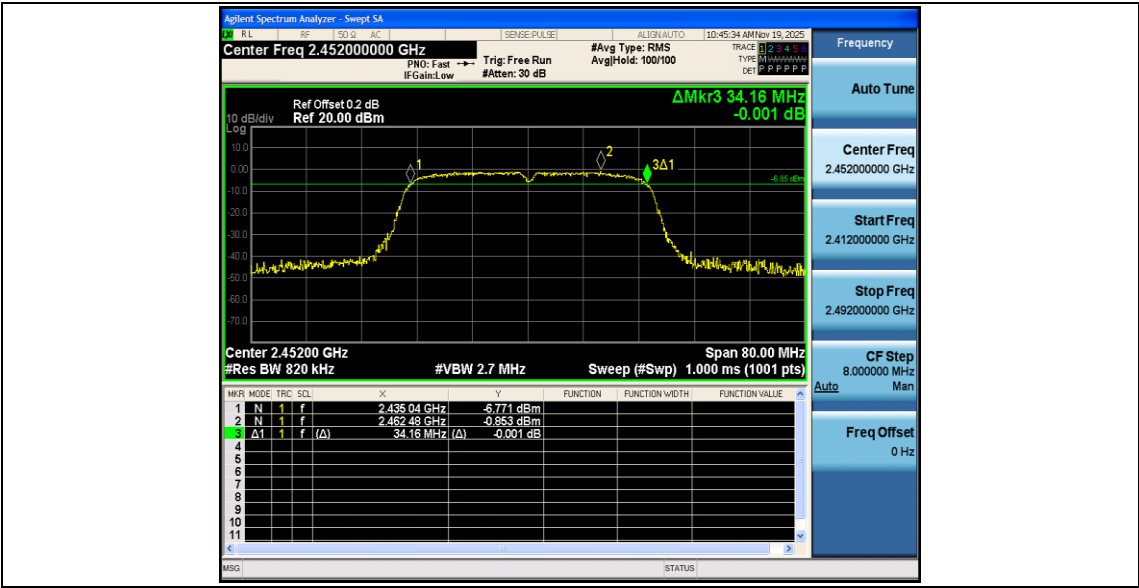
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



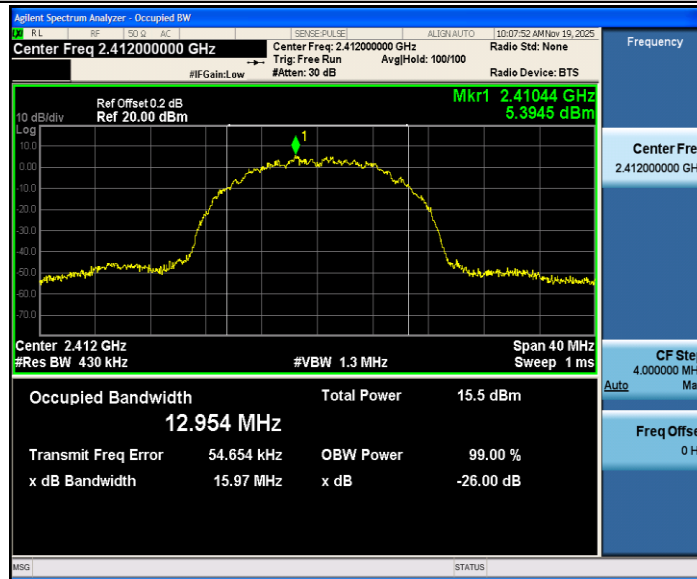
Appendix B: Occupied Channel Bandwidth

Test Result

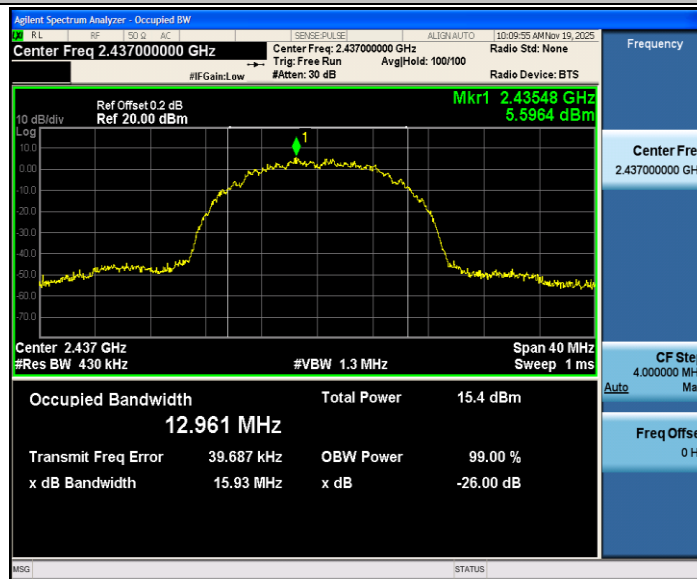
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.954	2405.5777	2418.5317	---	---
		2437	12.961	2430.5592	2443.5202	---	---
		2462	12.954	2455.5332	2468.4872	---	---
11G	Ant1	2412	16.587	2403.7490	2420.3360	---	---
		2437	16.581	2428.7513	2445.3323	---	---
		2462	16.599	2453.7281	2470.3271	---	---
11N20SISO	Ant1	2412	17.435	2403.3264	2420.7614	---	---
		2437	17.457	2428.3164	2445.7734	---	---
		2462	17.460	2453.3066	2470.7666	---	---
11N40SISO	Ant1	2422	34.781	2404.7836	2439.5646	---	---
		2437	34.854	2419.6810	2454.5350	---	---
		2452	34.752	2434.7301	2469.4821	---	---
11AX20SISO	Ant1	2412	17.449	2403.3225	2420.7715	---	---
		2437	17.401	2428.3413	2445.7423	---	---
		2462	17.472	2453.2940	2470.7660	---	---
11AX40SISO	Ant1	2422	34.844	2404.7398	2439.5838	---	---
		2437	34.813	2419.7221	2454.5351	---	---
		2452	34.769	2434.7053	2469.4743	---	---

Test Graphs

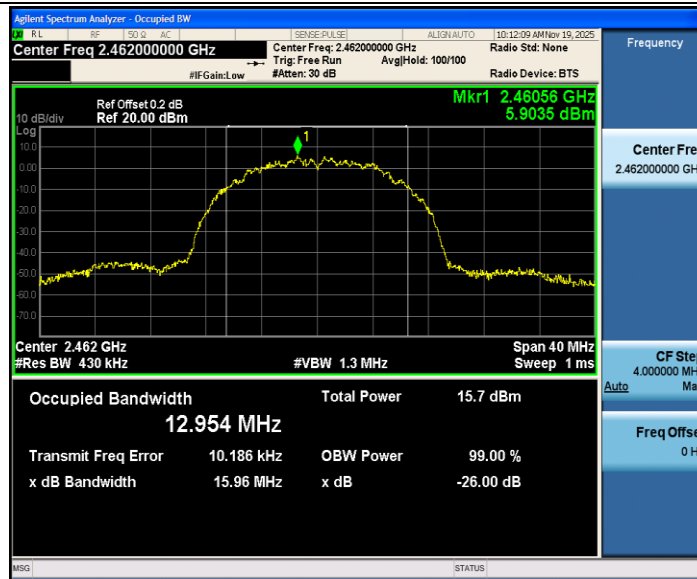
11B_Ant1_2412



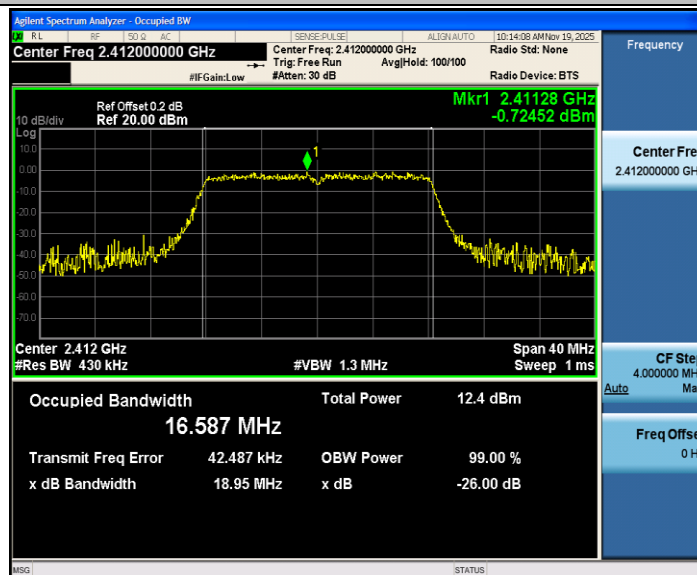
11B_Ant1_2437



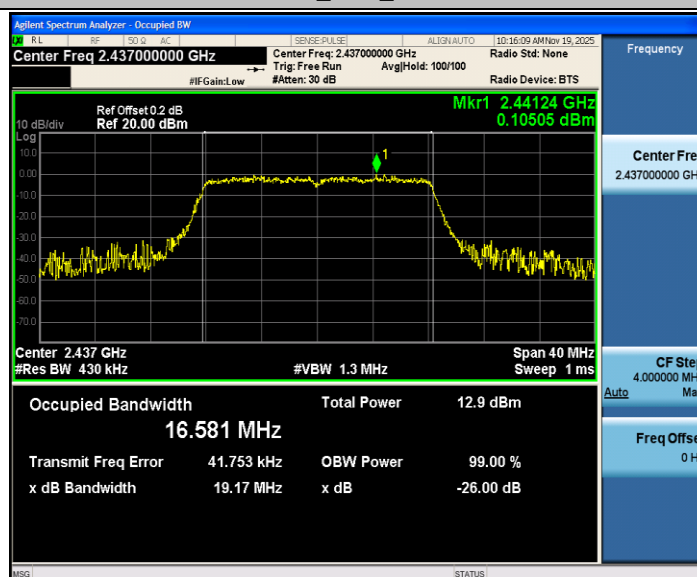
11B_Ant1_2462



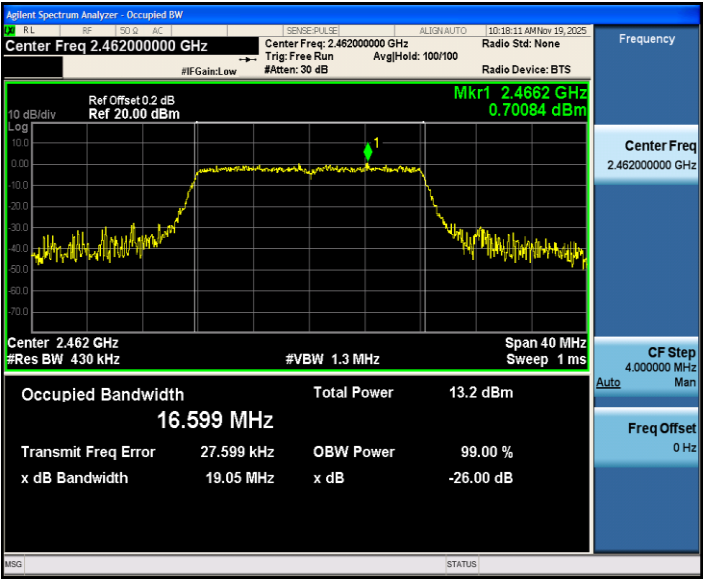
11G_Ant1_2412



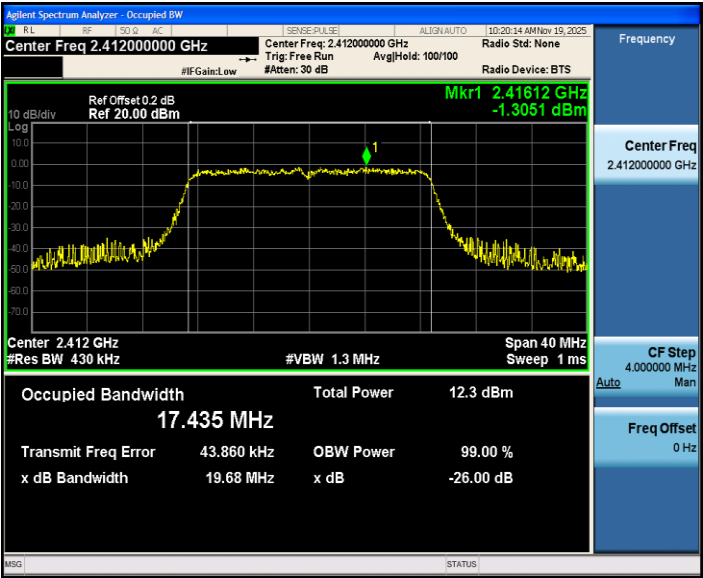
11G_Ant1_2437



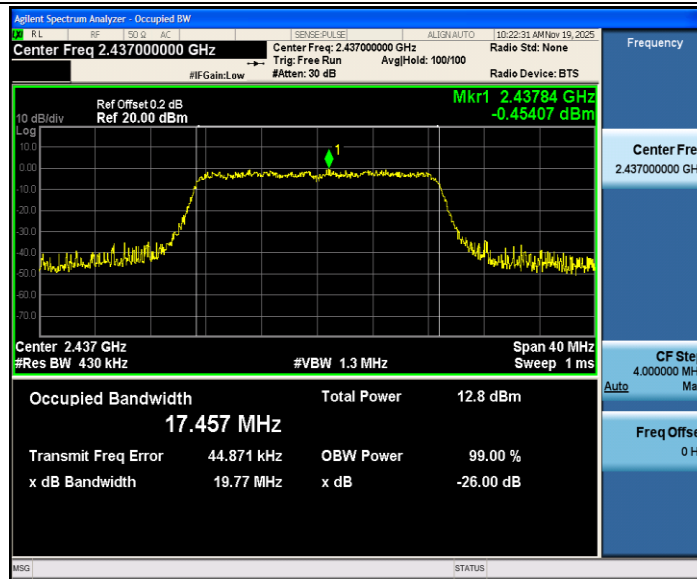
11G_Ant1_2462



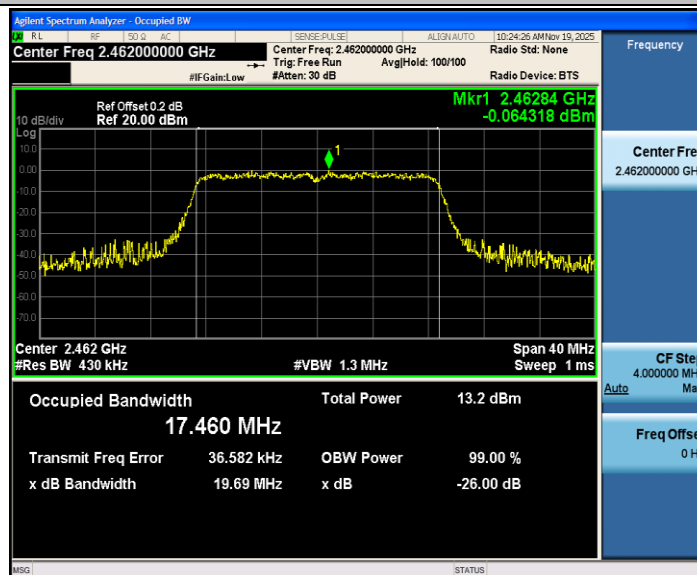
11N20SISO_Ant1_2412



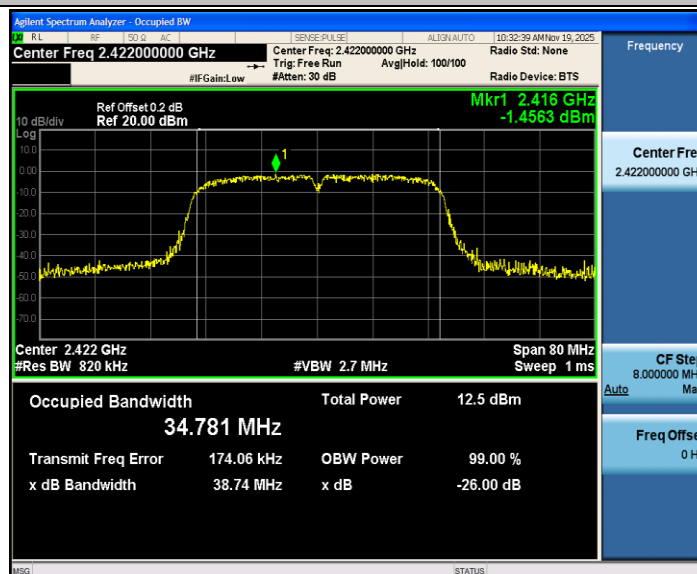
11N20SISO_Ant1_2437



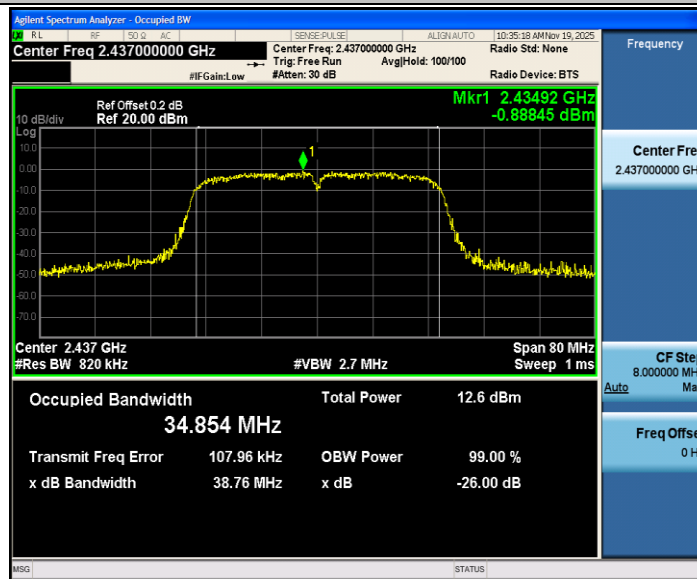
11N20SISO_Ant1_2462



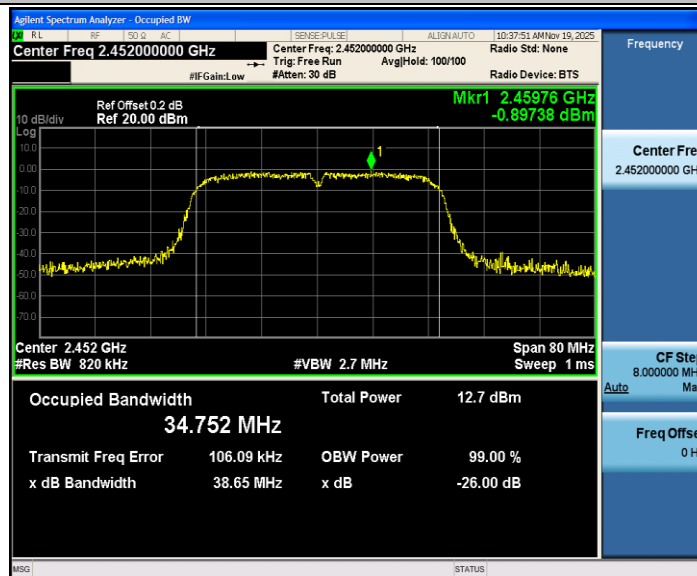
11N40SISO_Ant1_2422



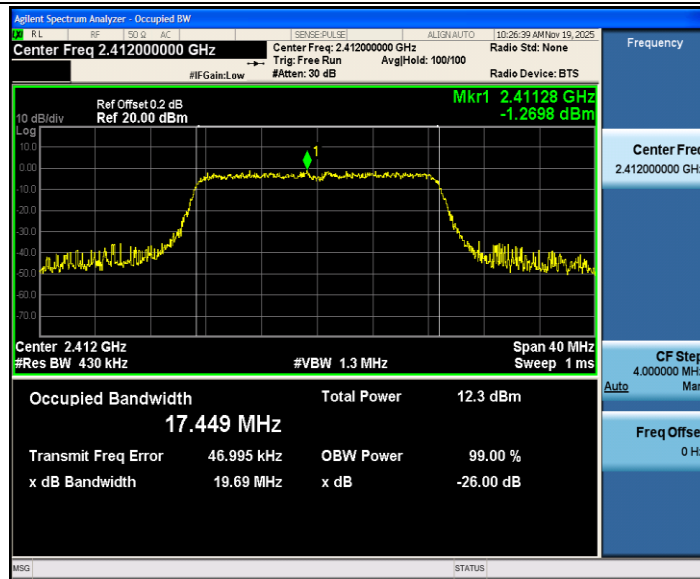
11N40SISO_Ant1_2437



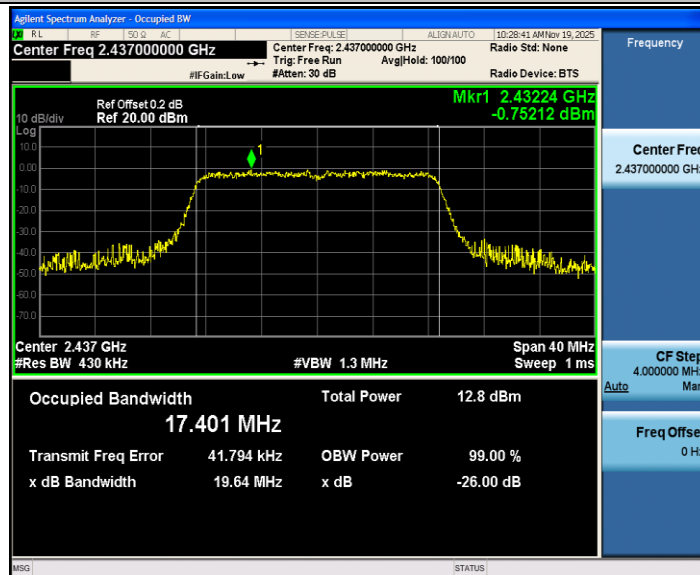
11N40SISO_Ant1_2452



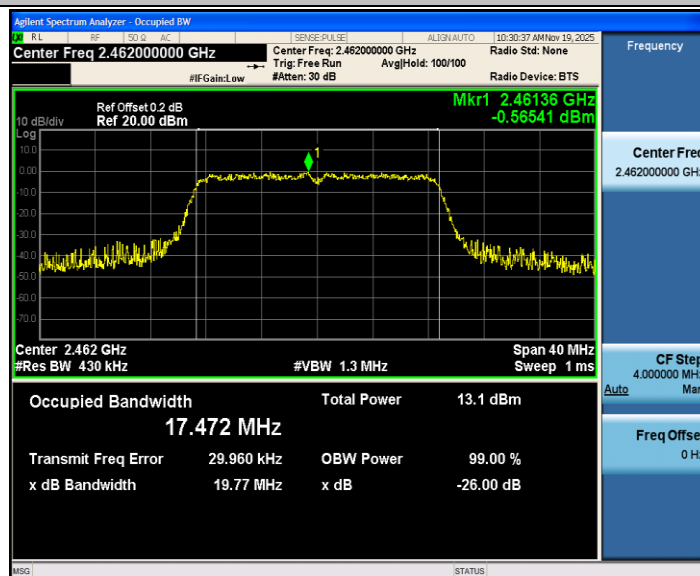
11AX20SISO_Ant1_2412



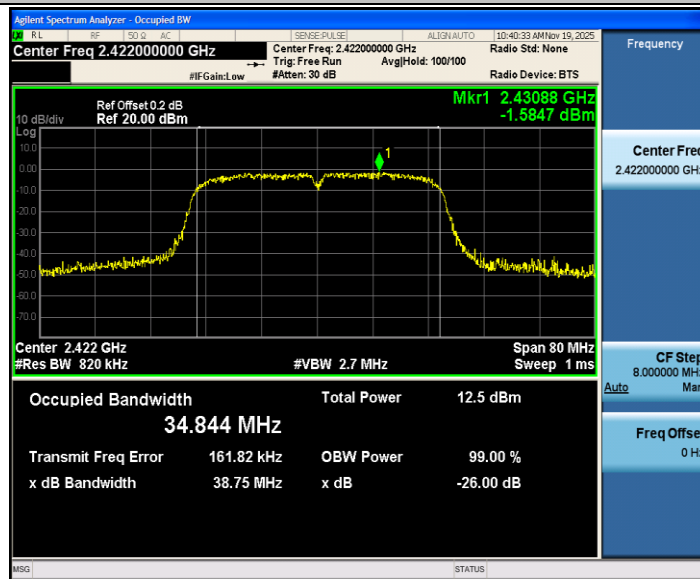
11AX20SISO_Ant1_2437



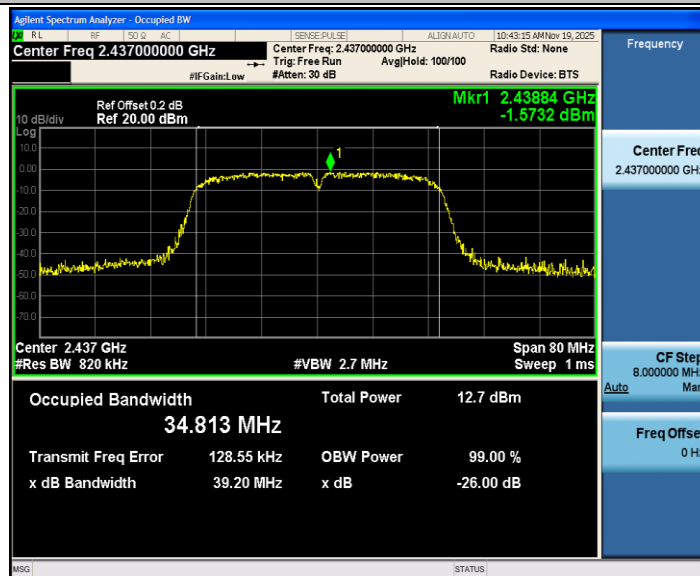
11AX20SISO_Ant1_2462



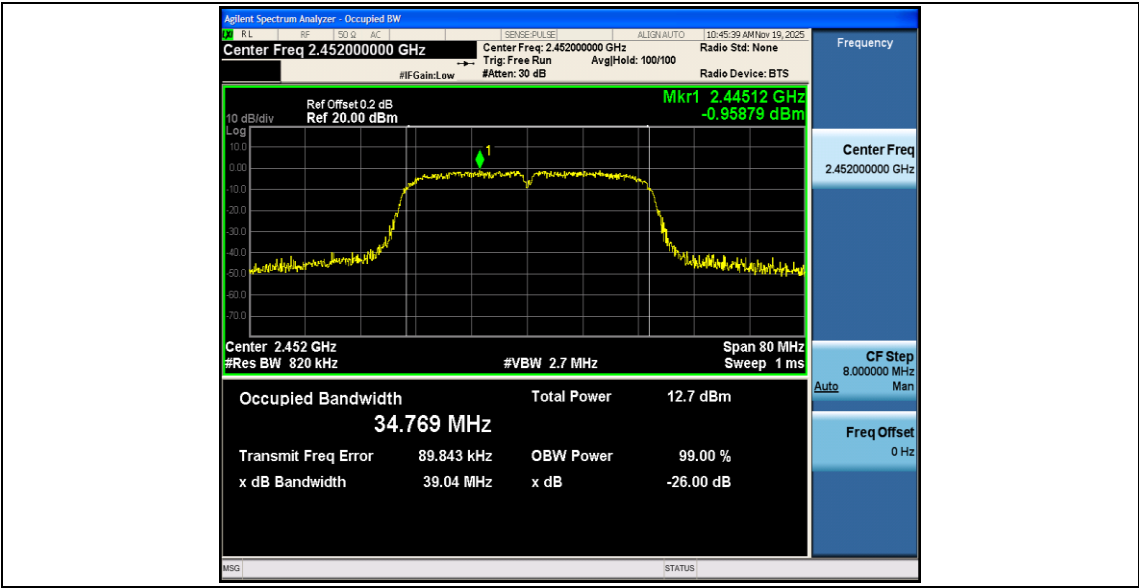
11AX40SISO_Ant1_2422



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	14.82	≤30.00	PASS
		2437	14.92	≤30.00	PASS
		2462	15.17	≤30.00	PASS
11G	Ant1	2412	13.16	≤30.00	PASS
		2437	13.56	≤30.00	PASS
		2462	14.01	≤30.00	PASS
11N20SISO	Ant1	2412	13.48	≤30.00	PASS
		2437	13.94	≤30.00	PASS
		2462	14.27	≤30.00	PASS
11N40SISO	Ant1	2422	12.80	≤30.00	PASS
		2437	12.87	≤30.00	PASS
		2452	13.07	≤30.00	PASS
11AX20SISO	Ant1	2412	13.41	≤30.00	PASS
		2437	14.02	≤30.00	PASS
		2462	14.35	≤30.00	PASS
11AX40SISO	Ant1	2422	12.69	≤30.00	PASS
		2437	12.88	≤30.00	PASS
		2452	13.12	≤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	-14.39	≤8.00	PASS
		2437	-13.94	≤8.00	PASS
		2462	-13.53	≤8.00	PASS
11G	Ant1	2412	-21.32	≤8.00	PASS
		2437	-20.80	≤8.00	PASS
		2462	-20.42	≤8.00	PASS
11N20SISO	Ant1	2412	-20.70	≤8.00	PASS
		2437	-20.35	≤8.00	PASS
		2462	-20.29	≤8.00	PASS
11N40SISO	Ant1	2422	-21.98	≤8.00	PASS
		2437	-21.79	≤8.00	PASS
		2452	-22.45	≤8.00	PASS
11AX20SISO	Ant1	2412	-20.95	≤8.00	PASS
		2437	-20.71	≤8.00	PASS
		2462	-20.10	≤8.00	PASS
11AX40SISO	Ant1	2422	-21.68	≤8.00	PASS
		2437	-22.49	≤8.00	PASS
		2452	-21.63	≤8.00	PASS

Test Graphs

11B_Ant1_2412



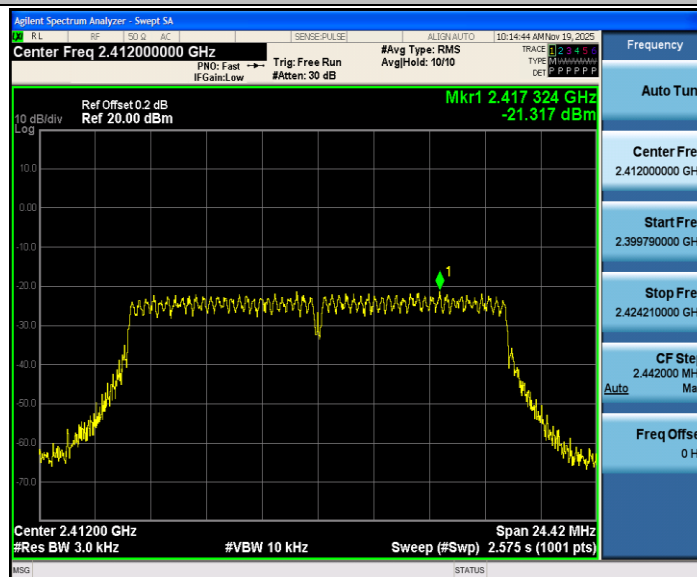
11B_Ant1_2437



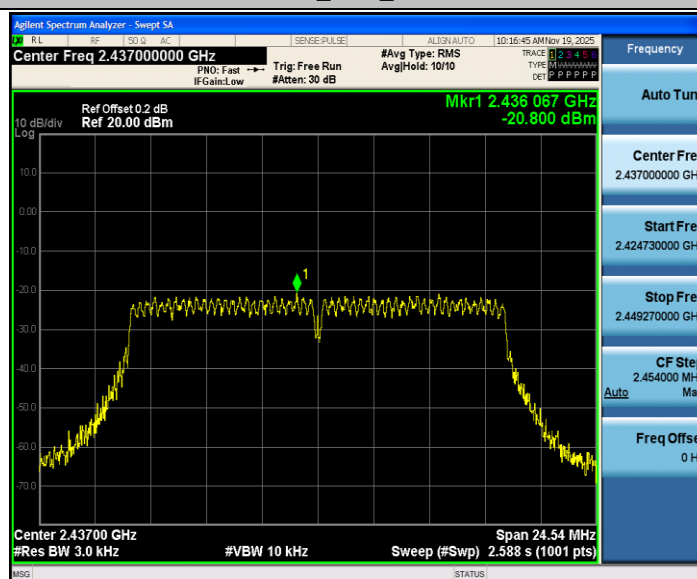
11B_Ant1_2462



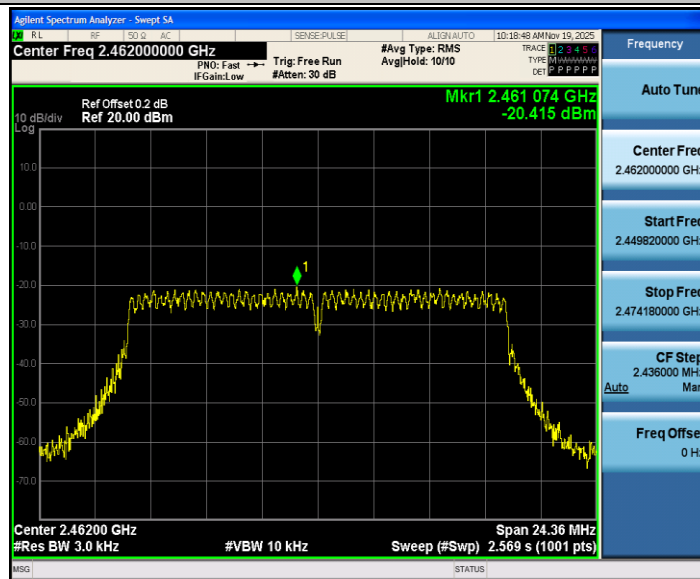
11G_Ant1_2412



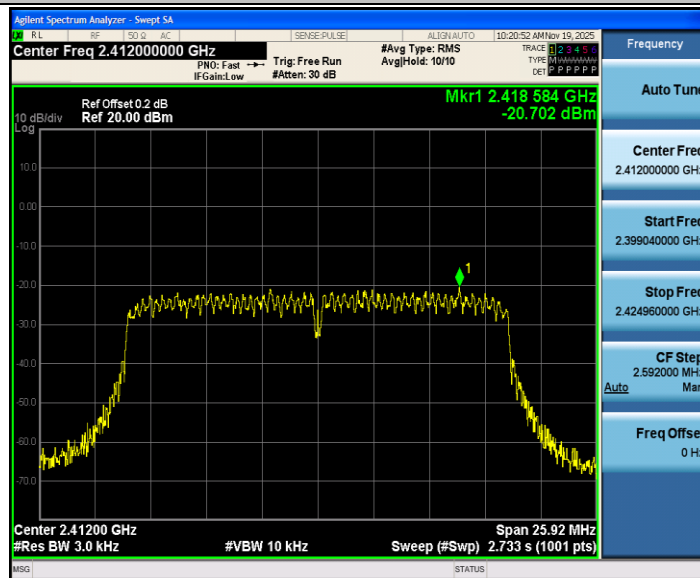
11G_Ant1_2437



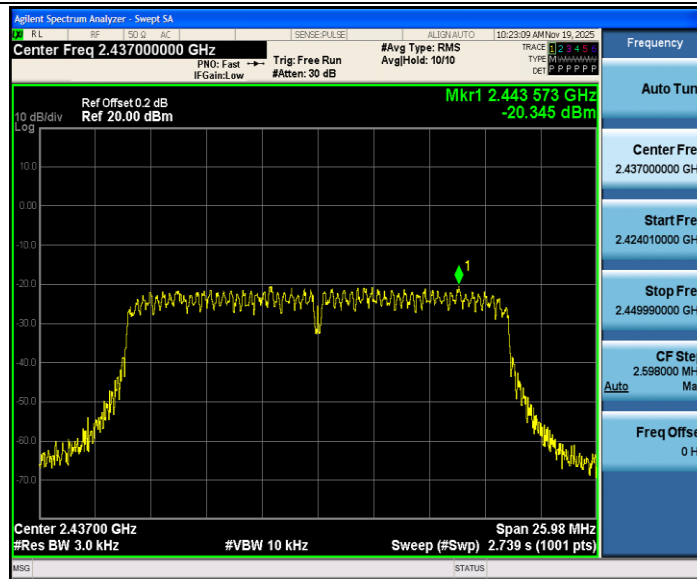
11G_Ant1_2462



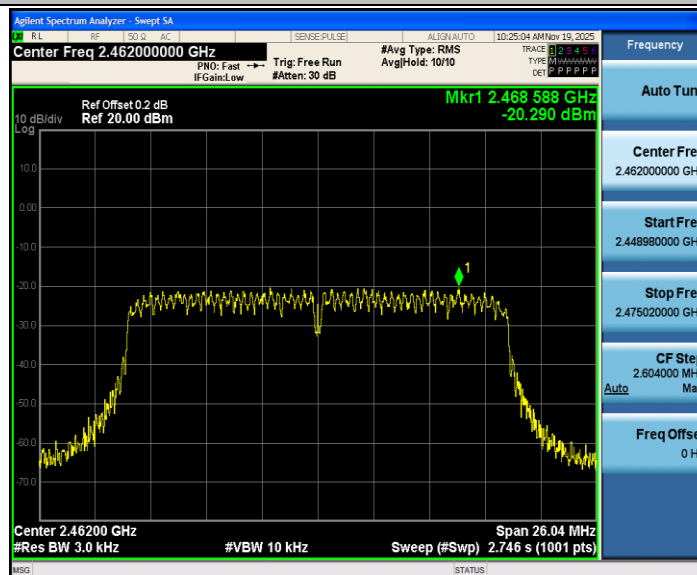
11N20SISO_Ant1_2412



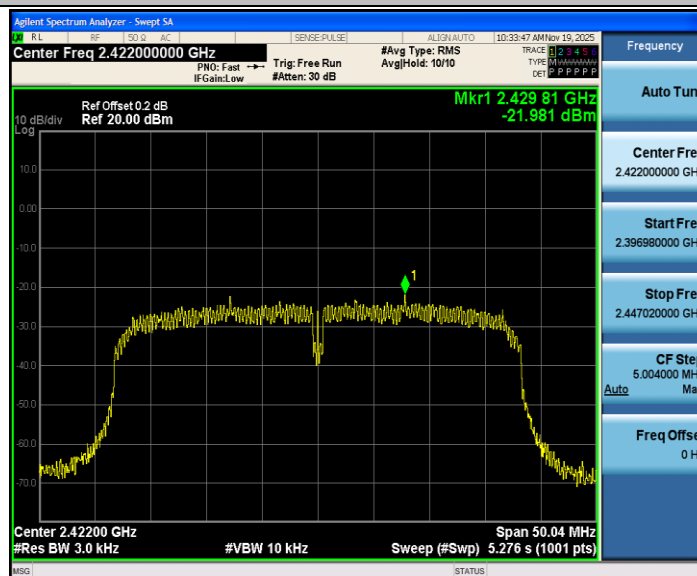
11N20SISO_Ant1_2437



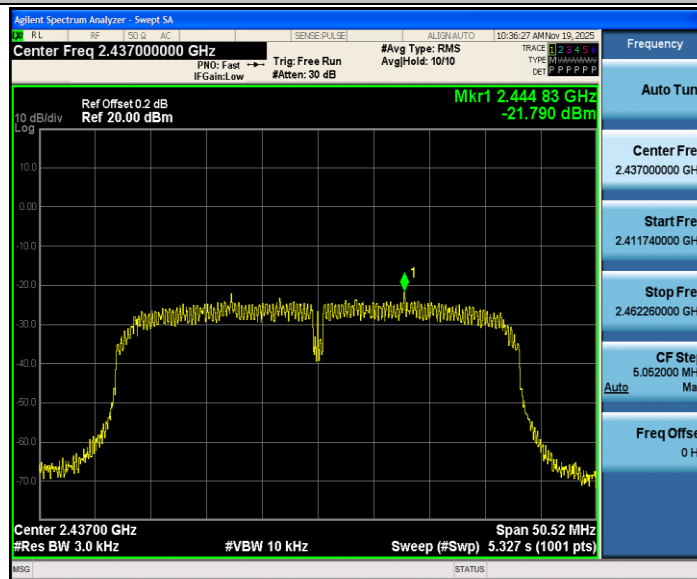
11N20SISO_Ant1_2462



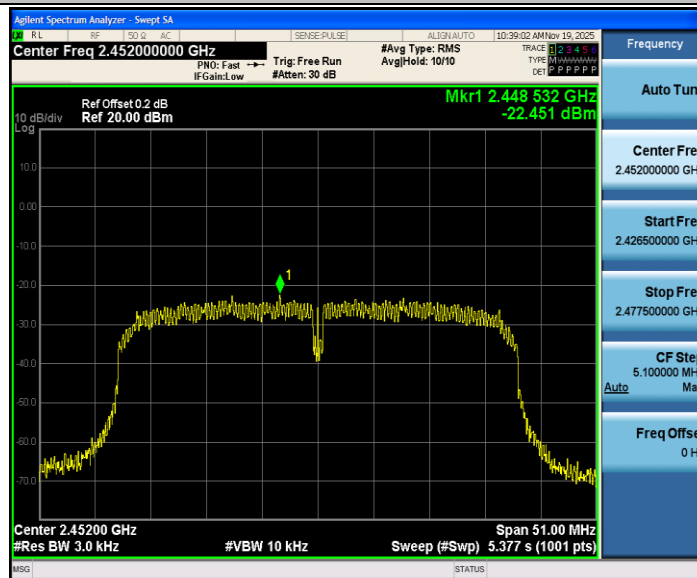
11N40SISO_Ant1_2422



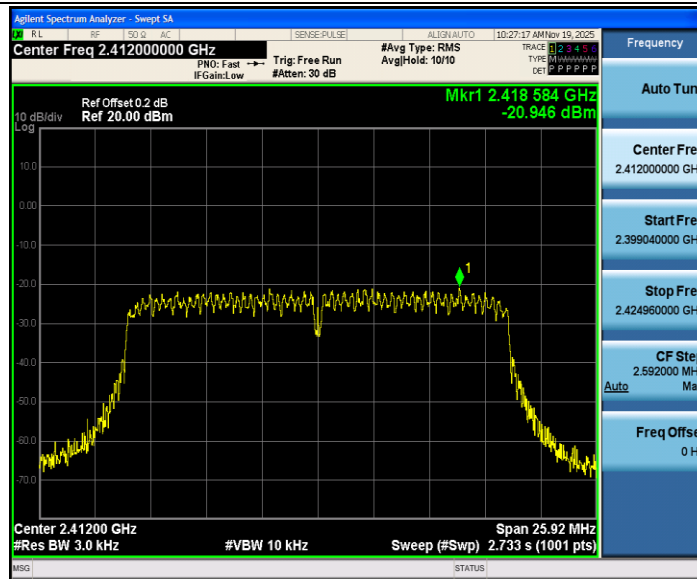
11N40SISO_Ant1_2437



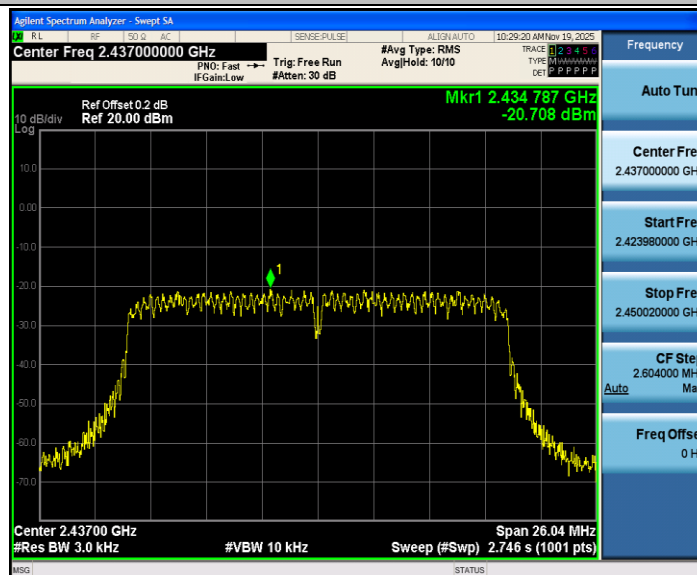
11N40SISO_Ant1_2452



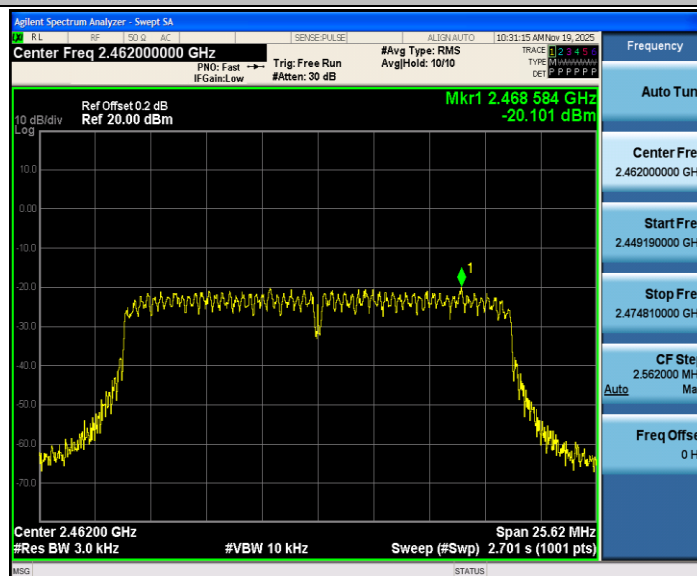
11AX20SISO_Ant1_2412



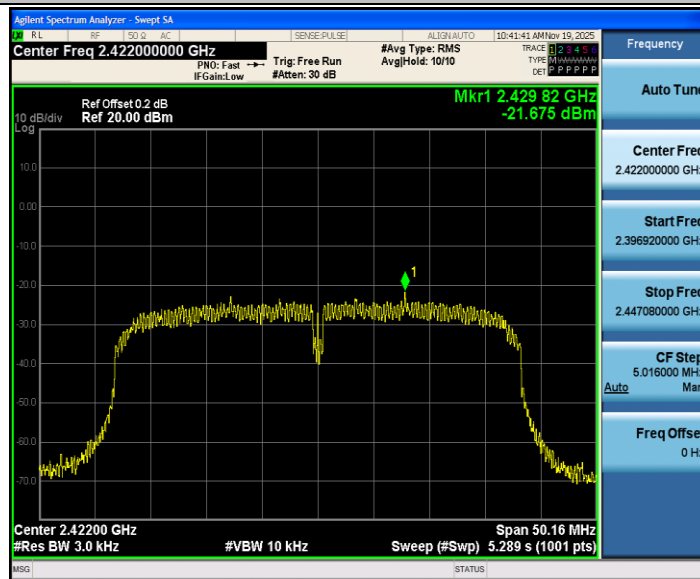
11AX20SISO_Ant1_2437



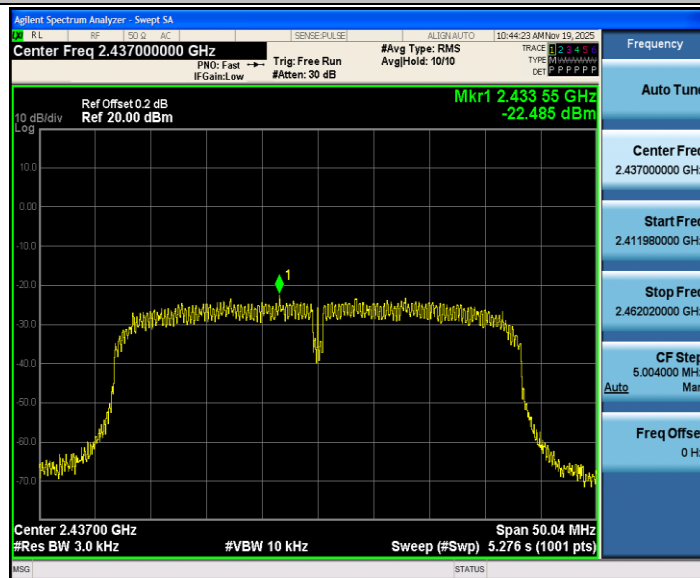
11AX20SISO_Ant1_2462



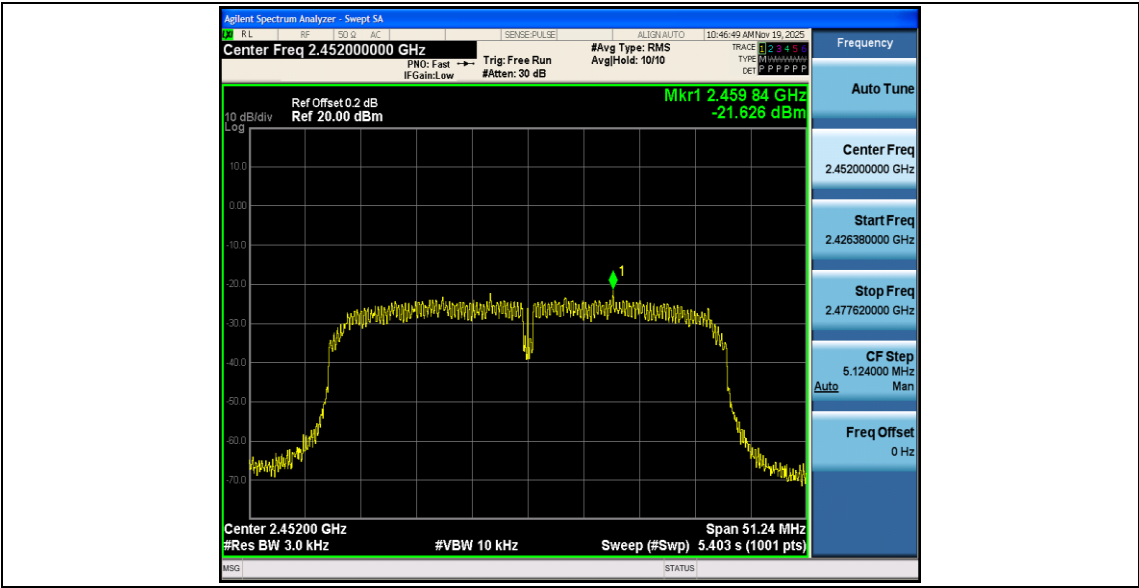
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



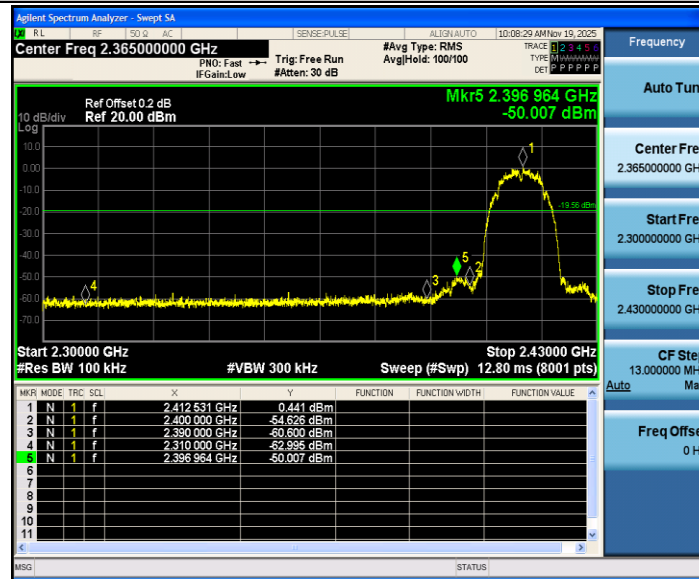
Appendix E: Band edge measurements

Test Result

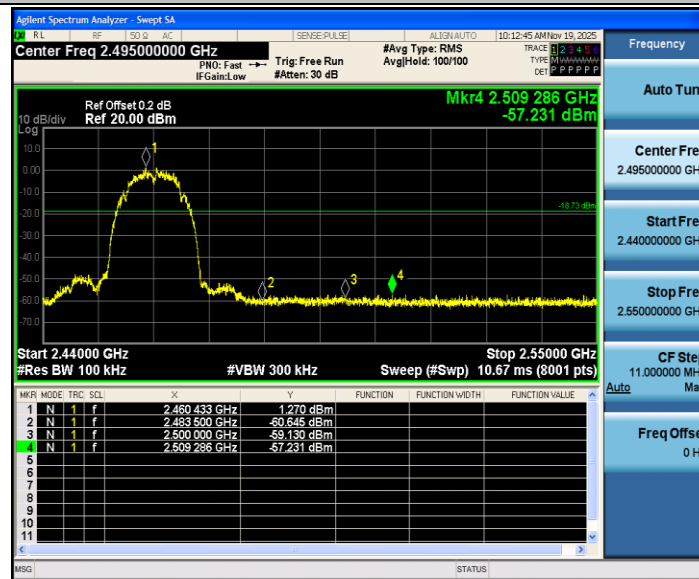
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.44	-50.01	≤-19.56	PASS
		High	2462	1.27	-57.23	≤-18.73	PASS
11G	Ant1	Low	2412	-7.06	-41.89	≤-27.06	PASS
		High	2462	-6.27	-50.29	≤-26.27	PASS
11N20SISO	Ant1	Low	2412	-7.56	-44.61	≤-27.56	PASS
		High	2462	-6.19	-51.67	≤-26.19	PASS
11N40SISO	Ant1	Low	2422	-10.04	-48.26	≤-30.04	PASS
		High	2452	-10.02	-53.26	≤-30.02	PASS
11AX20SISO	Ant1	Low	2412	-7.28	-44.08	≤-27.28	PASS
		High	2462	-6.19	-51.54	≤-26.19	PASS
11AX40SISO	Ant1	Low	2422	-10.33	-48.38	≤-30.33	PASS
		High	2452	-10.24	-51.8	≤-30.24	PASS

Test Graphs

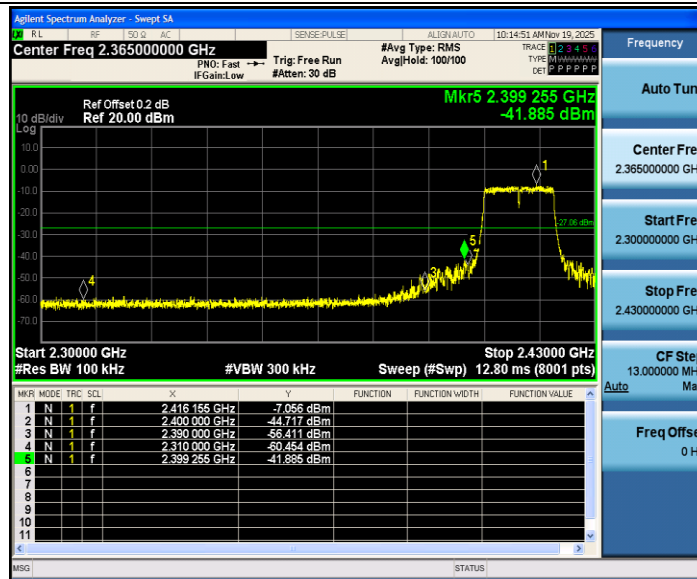
11B_Ant1_Low_2412



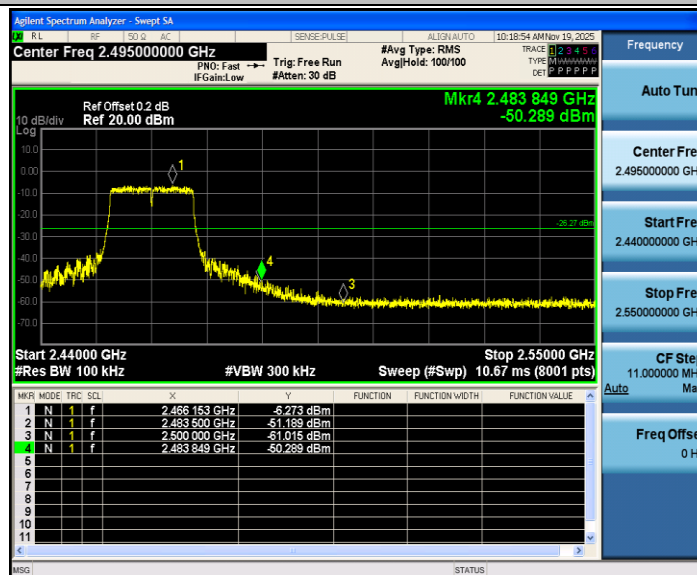
11B_Ant1_High_2462



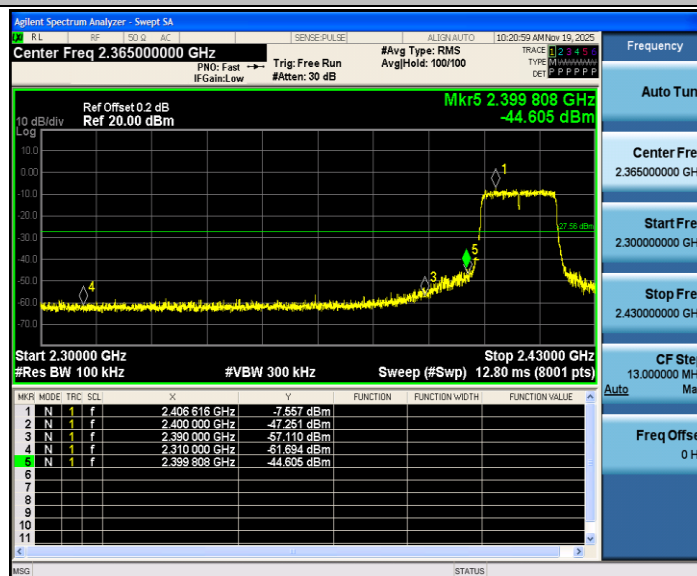
11G_Ant1_Low_2412



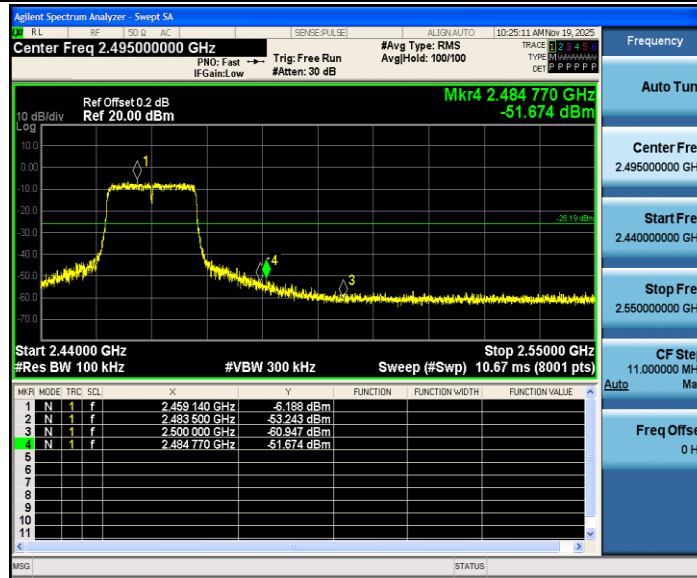
11G_Ant1_High_2462



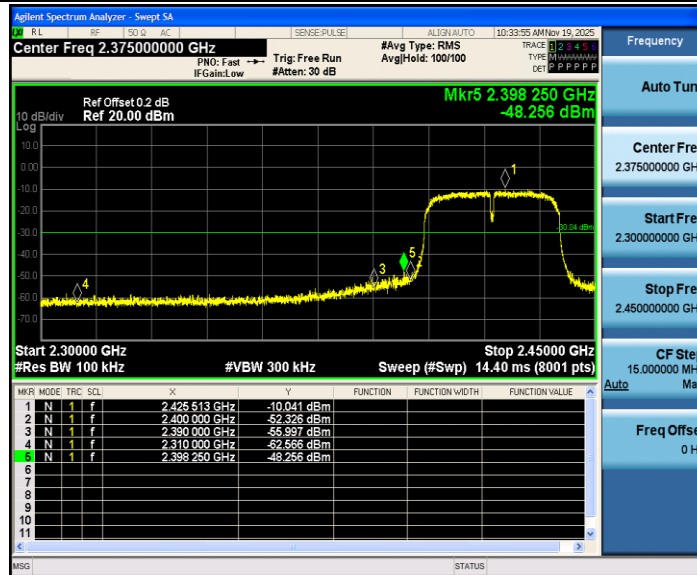
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452