

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A6P9-NWCA01

Company : Promaster Electronic LLC

EUT : Wireless CP&AA adaptor

Model Number : NWCAA-1

Report No. : CTA25092701203

Reviewed By : Eric Wang

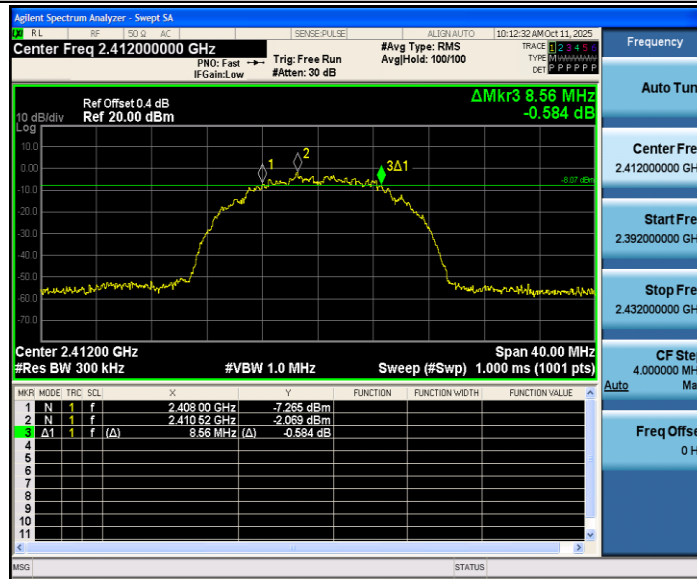
Appendix A: DTS Bandwidth

Test Result

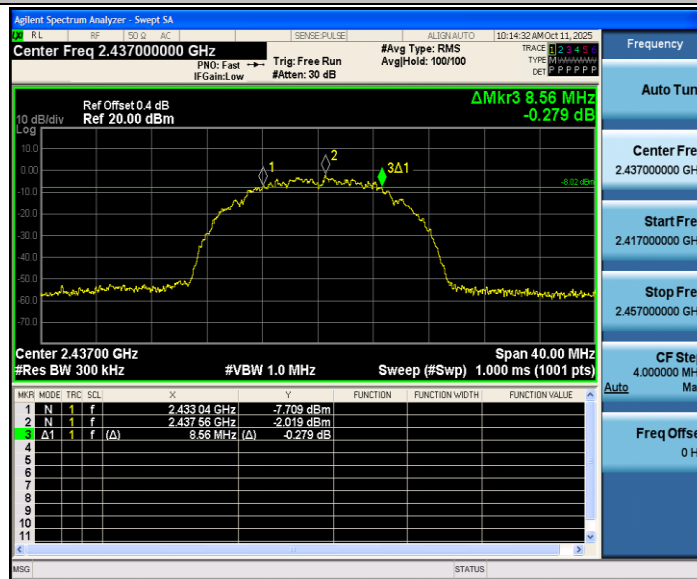
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2408.000	2416.560	0.5	PASS
		2437	8.560	2433.040	2441.600	0.5	PASS
		2462	9.560	2457.000	2466.560	0.5	PASS
11G	Ant1	2412	16.280	2403.920	2420.200	0.5	PASS
		2437	16.360	2428.880	2445.240	0.5	PASS
		2462	16.400	2453.840	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.360	2420.600	0.5	PASS
		2437	17.280	2428.360	2445.640	0.5	PASS
		2462	17.240	2453.440	2470.680	0.5	PASS
11N40SISO	Ant1	2422	33.760	2405.280	2439.040	0.5	PASS
		2437	33.840	2420.280	2454.120	0.5	PASS
		2452	33.520	2435.200	2468.720	0.5	PASS
11AX20SISO	Ant1	2412	17.400	2403.360	2420.760	0.5	PASS
		2437	17.160	2428.440	2445.600	0.5	PASS
		2462	17.280	2453.360	2470.640	0.5	PASS
11AX40SISO	Ant1	2422	33.920	2405.360	2439.280	0.5	PASS
		2437	33.840	2420.360	2454.200	0.5	PASS
		2452	33.920	2435.120	2469.040	0.5	PASS

Test Graphs

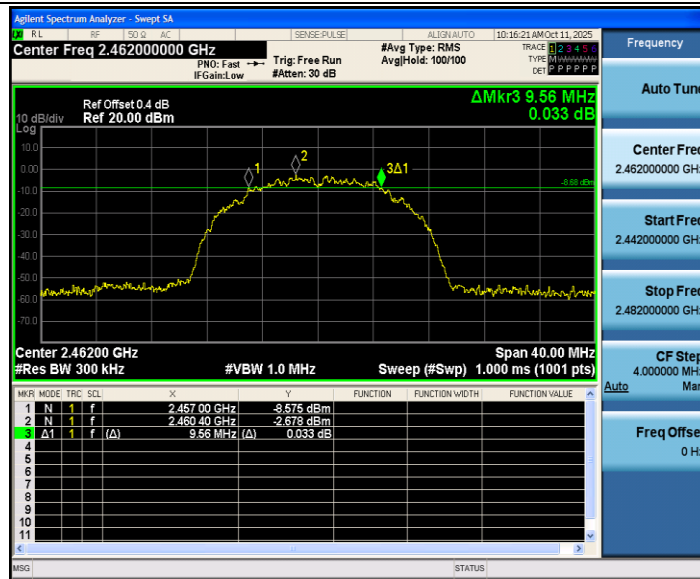
11B_Ant1_2412



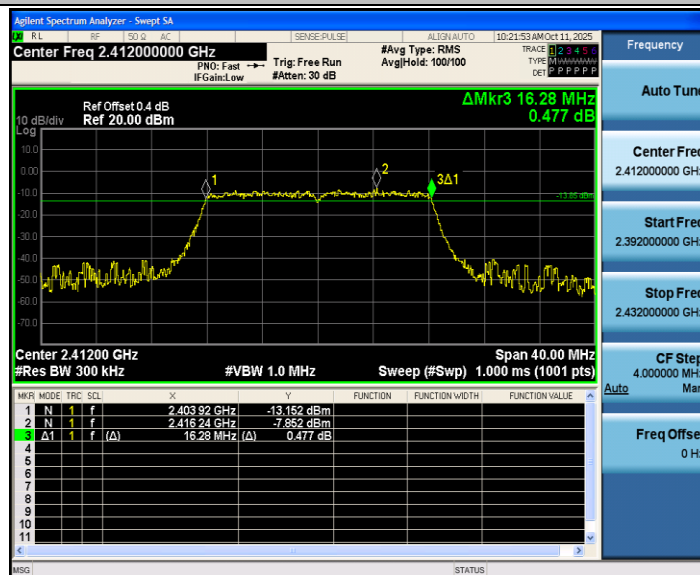
11B_Ant1_2437



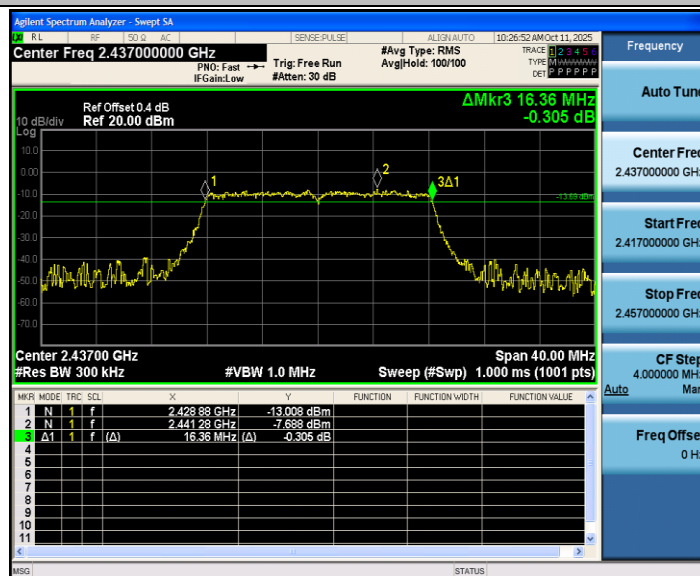
11B_Ant1_2462



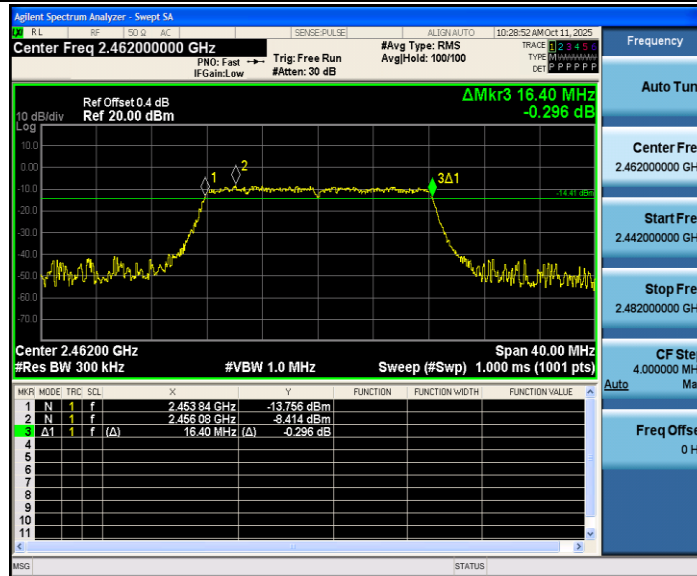
11G_Ant1_2412



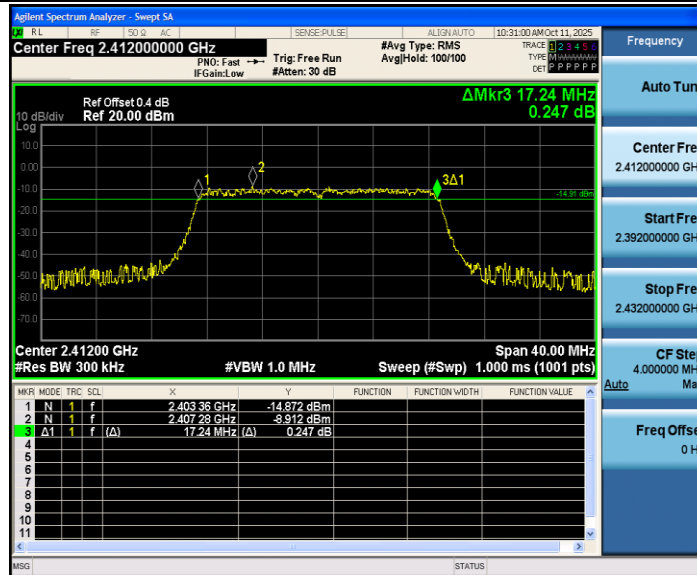
11G_Ant1_2437



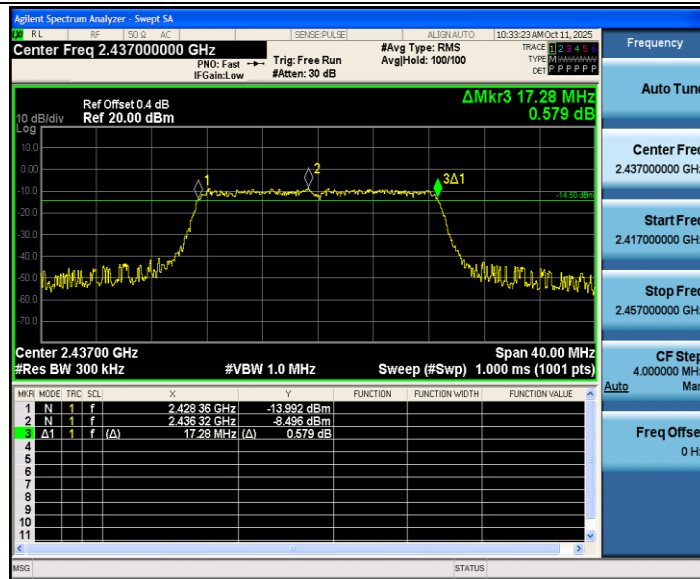
11G_Ant1_2462



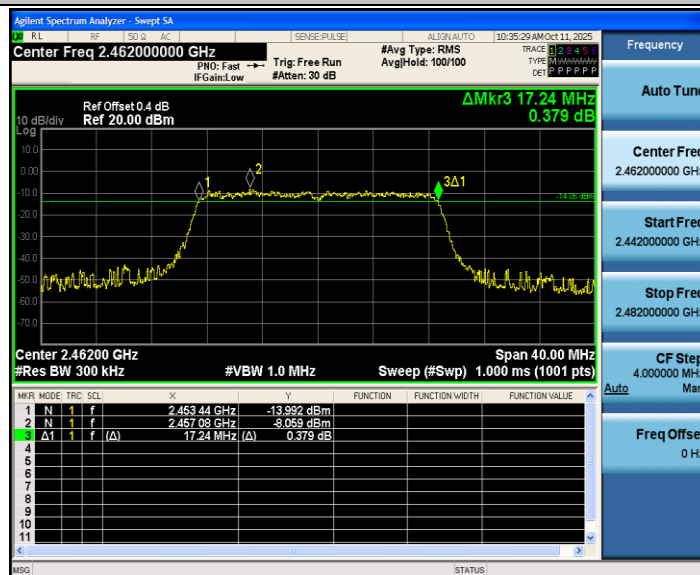
11N20SISO_Ant1_2412



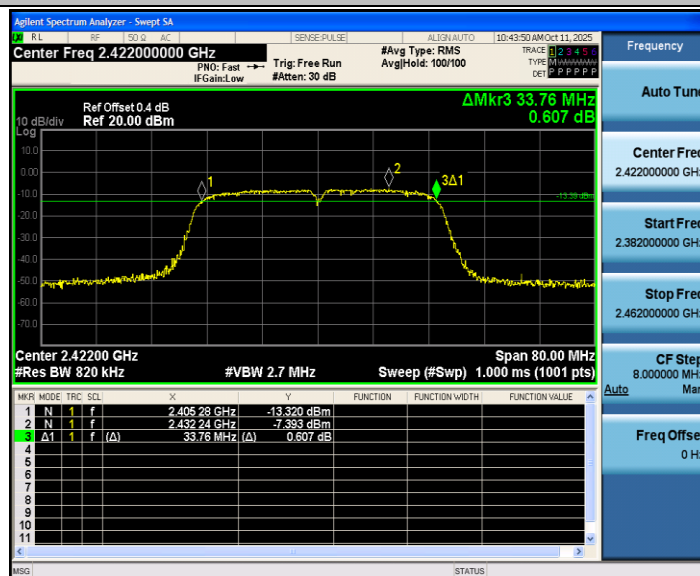
11N20SISO_Ant1_2437



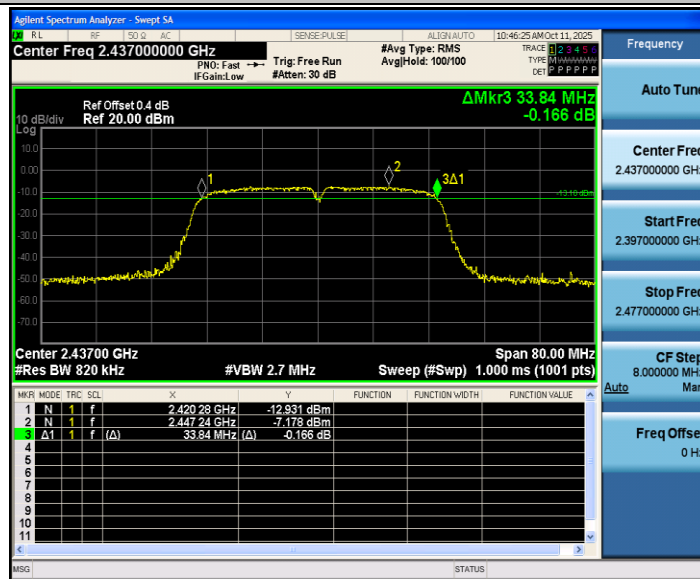
11N20SISO_Ant1_2462



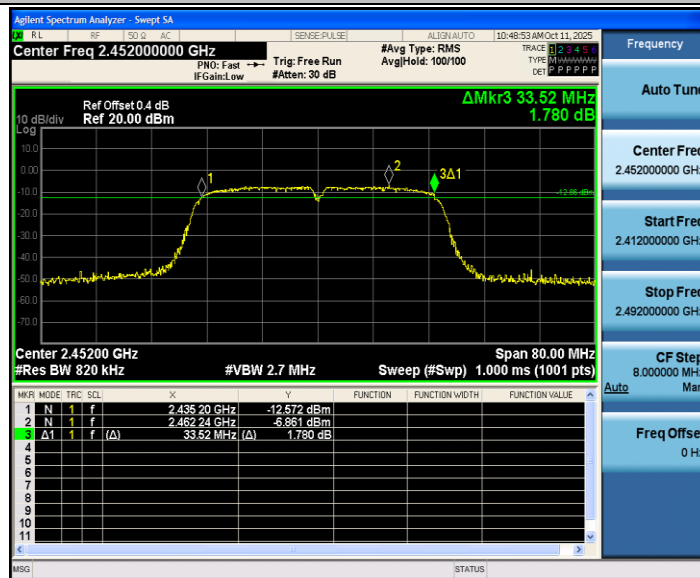
11N40SISO_Ant1_2422



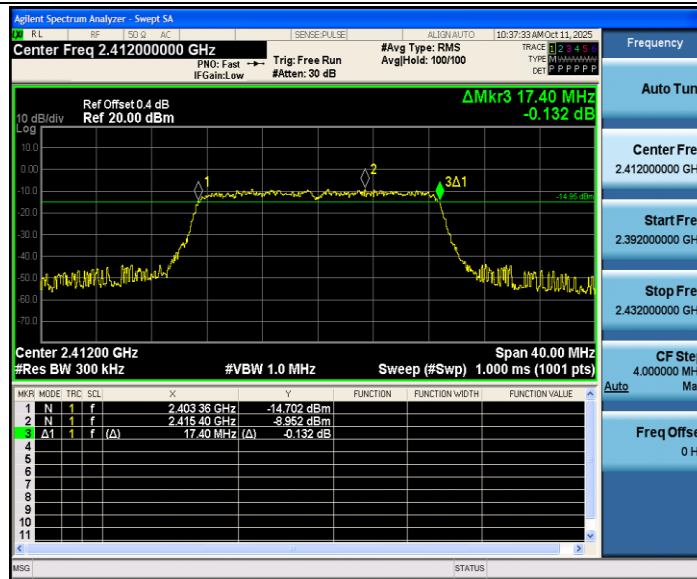
11N40SISO_Ant1_2437



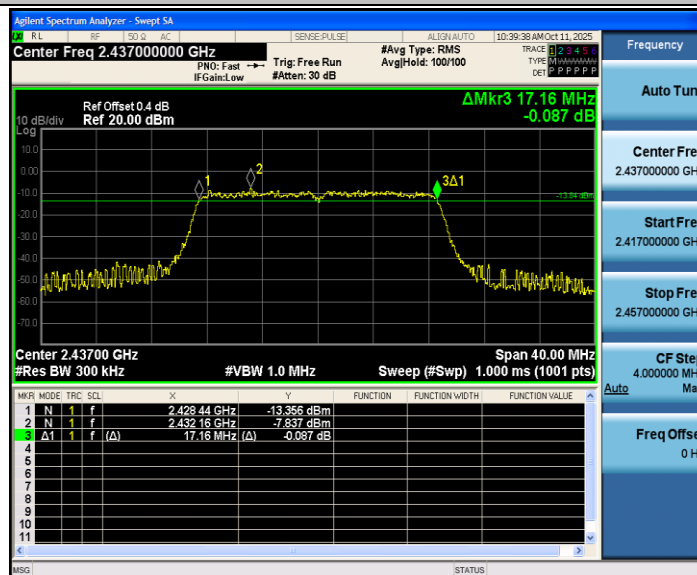
11N40SISO_Ant1_2452



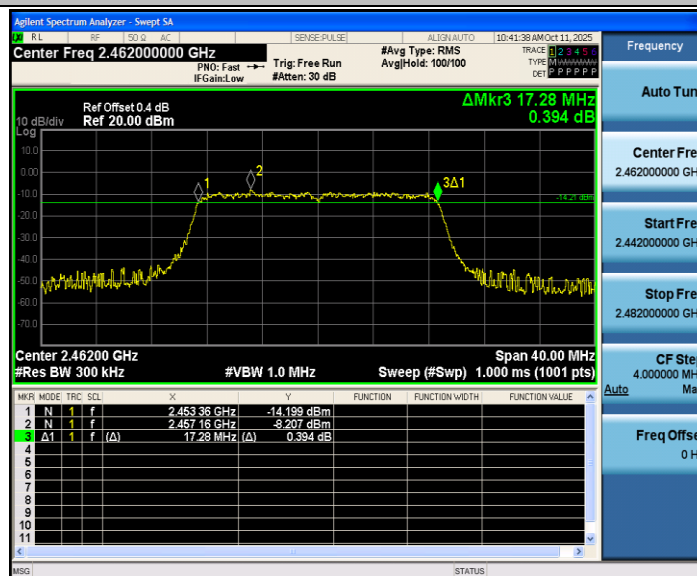
11AX20SISO_Ant1_2412



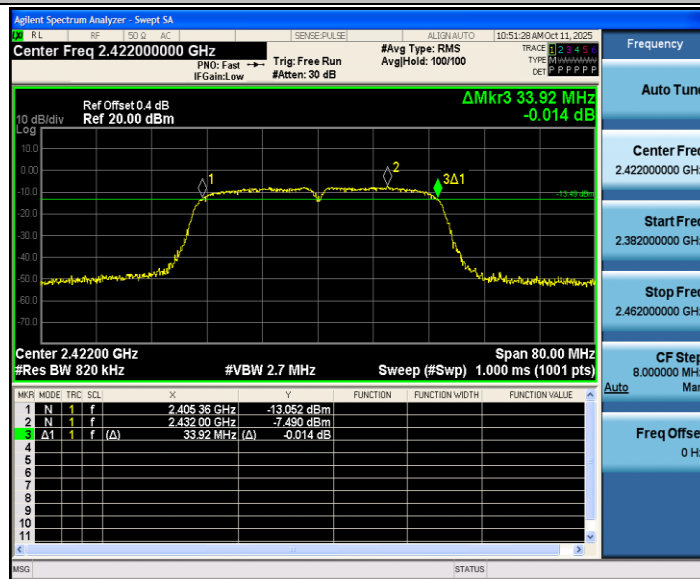
11AX20SISO_Ant1_2437



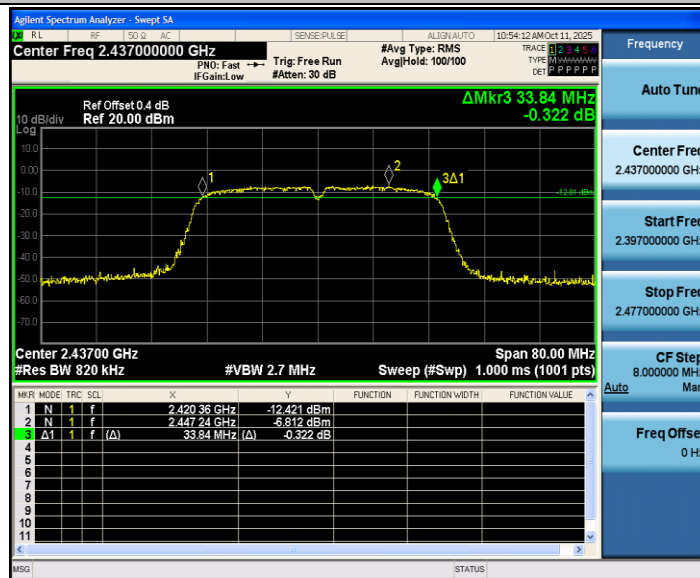
11AX20SISO_Ant1_2462



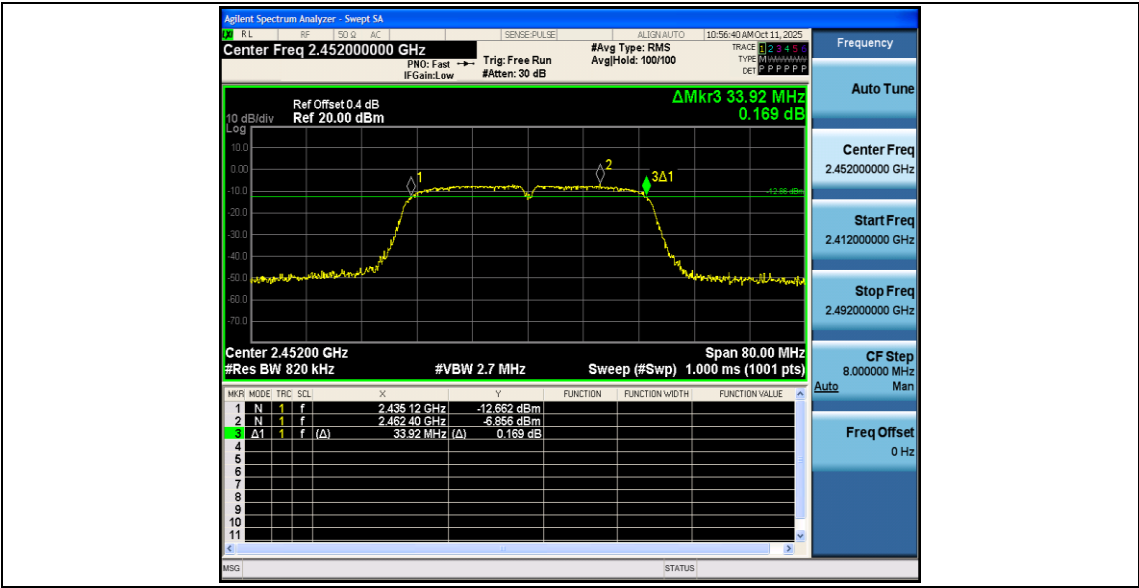
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



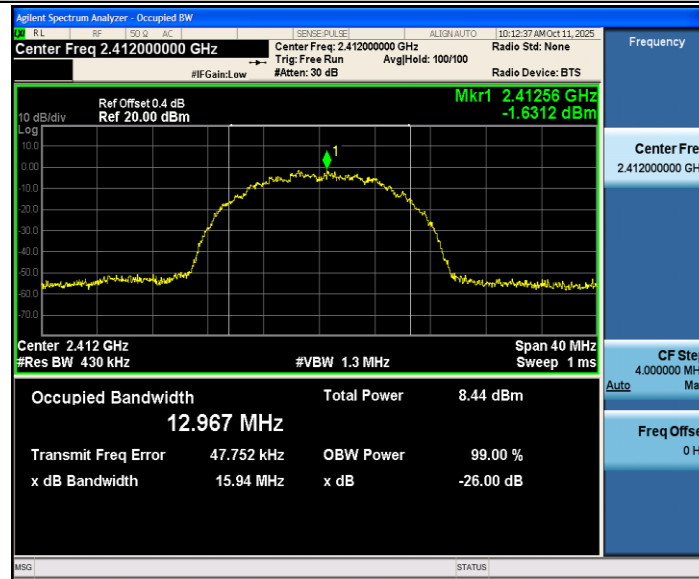
Appendix B: Occupied Channel Bandwidth

Test Result

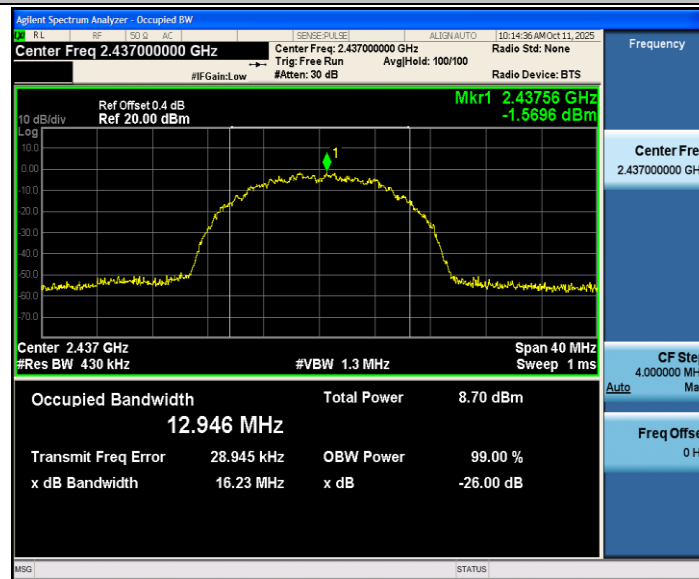
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.967	2405.5643	2418.5313	---	---
		2437	12.946	2430.5559	2443.5019	---	---
		2462	13.005	2455.4945	2468.4995	---	---
11G	Ant1	2412	16.620	2403.7141	2420.3341	---	---
		2437	16.605	2428.7320	2445.3370	---	---
		2462	16.613	2453.7318	2470.3448	---	---
11N20SISO	Ant1	2412	17.459	2403.3286	2420.7876	---	---
		2437	17.439	2428.3216	2445.7606	---	---
		2462	17.454	2453.2966	2470.7506	---	---
11N40SISO	Ant1	2422	34.855	2404.7358	2439.5908	---	---
		2437	34.875	2419.6957	2454.5707	---	---
		2452	34.740	2434.7415	2469.4815	---	---
11AX20SISO	Ant1	2412	17.432	2403.3378	2420.7698	---	---
		2437	17.463	2428.3114	2445.7744	---	---
		2462	17.451	2453.3025	2470.7535	---	---
11AX40SISO	Ant1	2422	34.750	2404.7640	2439.5140	---	---
		2437	34.834	2419.6971	2454.5311	---	---
		2452	34.776	2434.6899	2469.4659	---	---

Test Graphs

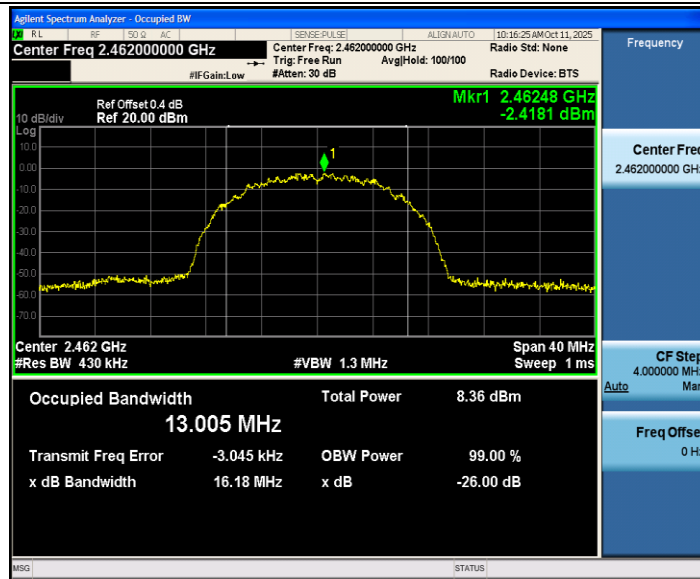
11B_Ant1_2412



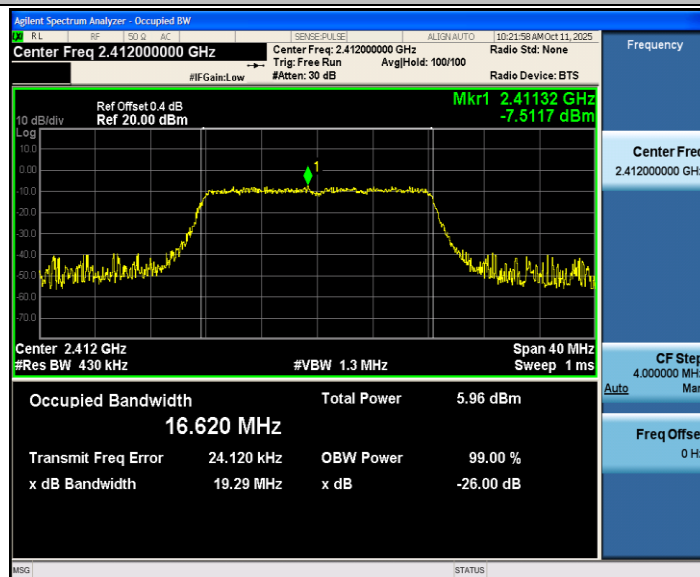
11B_Ant1_2437



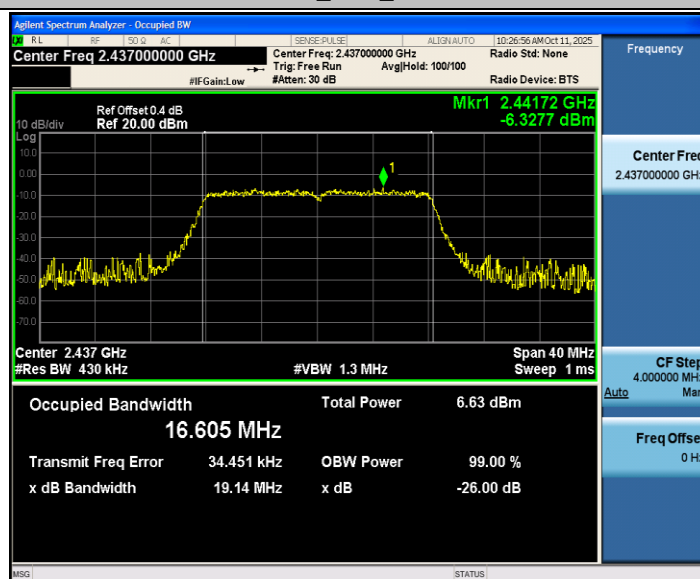
11B_Ant1_2462



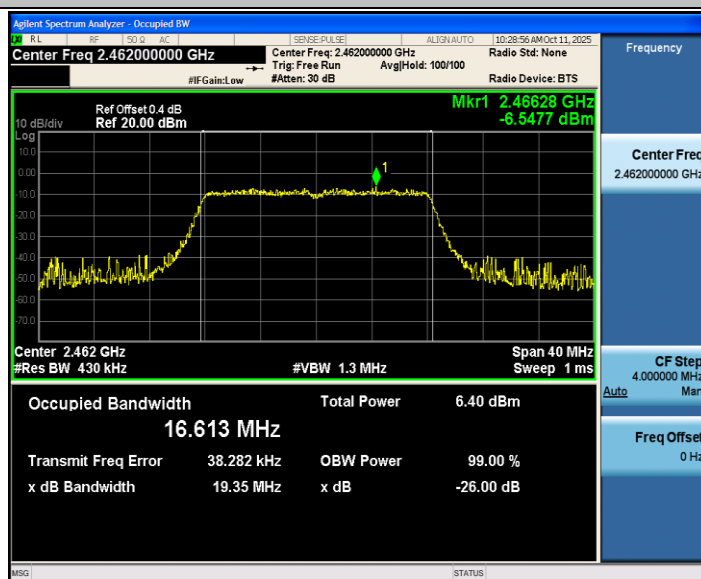
11G_Ant1_2412



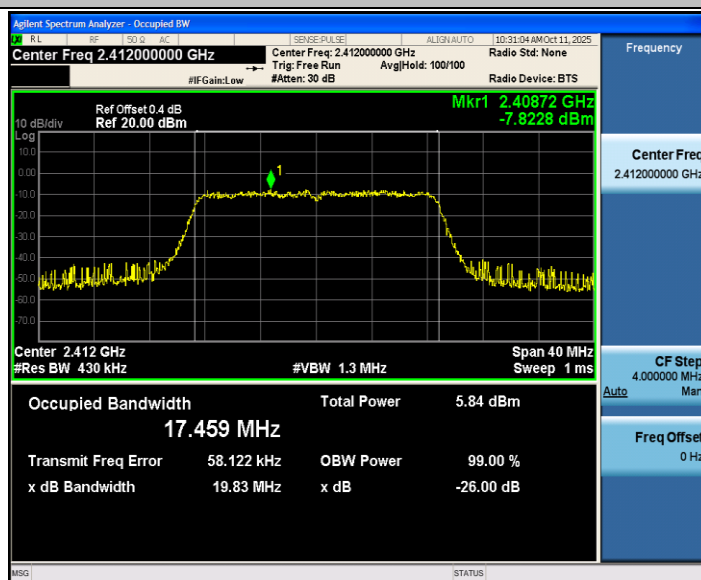
11G_Ant1_2437



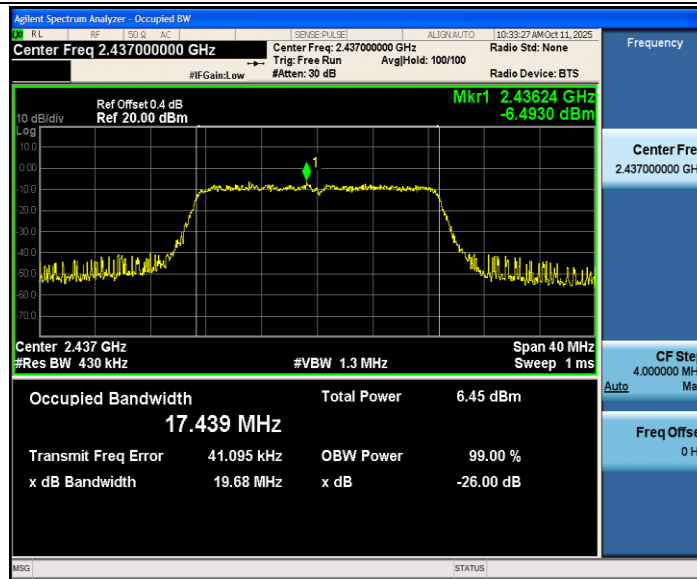
11G_Ant1_2462



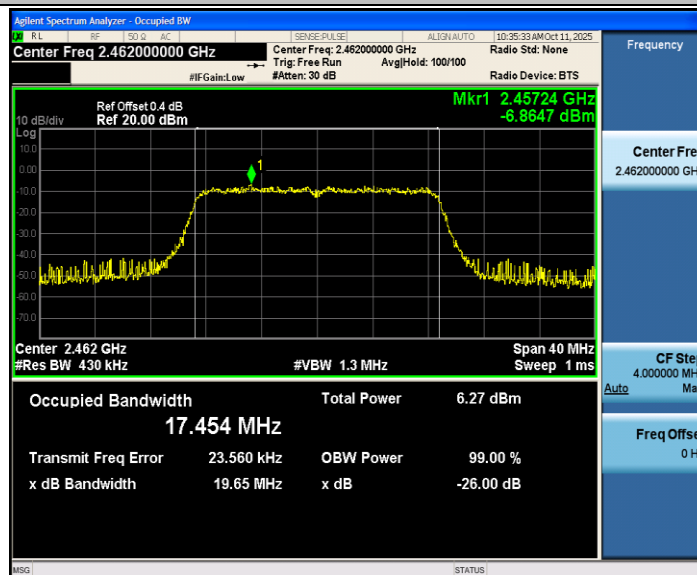
11N20SISO_Ant1_2412



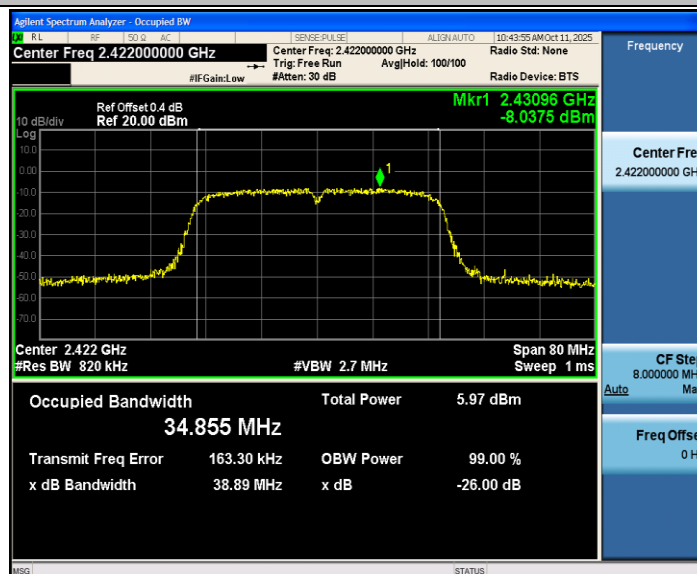
11N20SISO_Ant1_2437



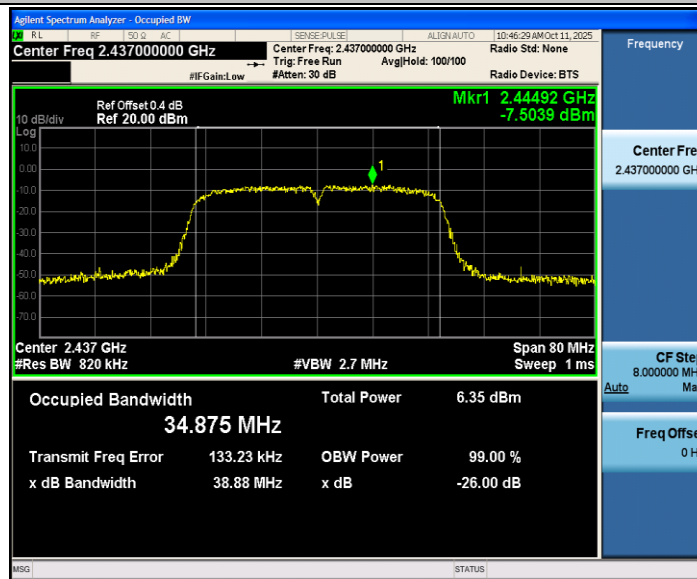
11N20SISO_Ant1_2462



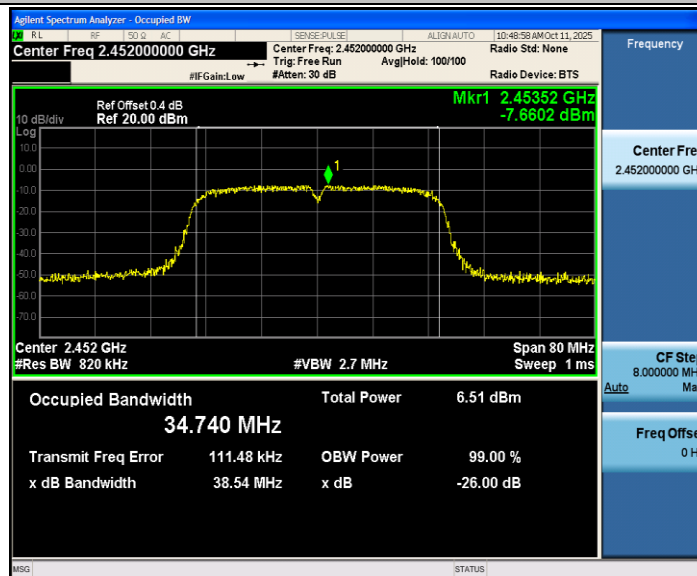
11N40SISO_Ant1_2422



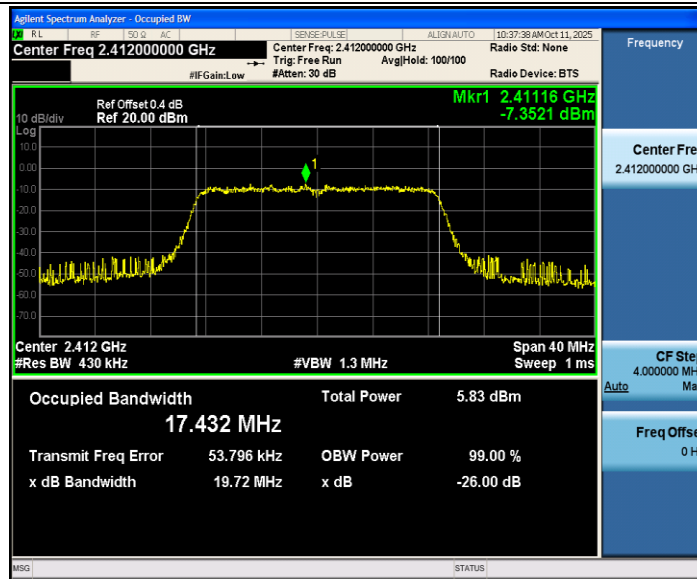
11N40SISO_Ant1_2437



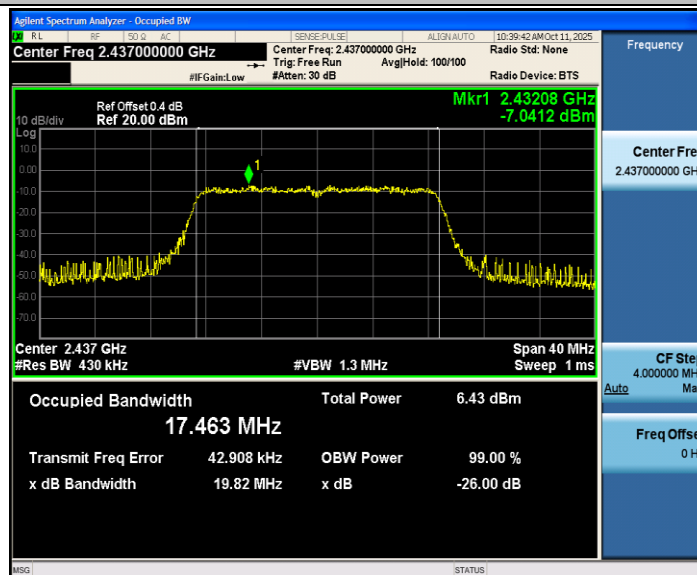
11N40SISO_Ant1_2452



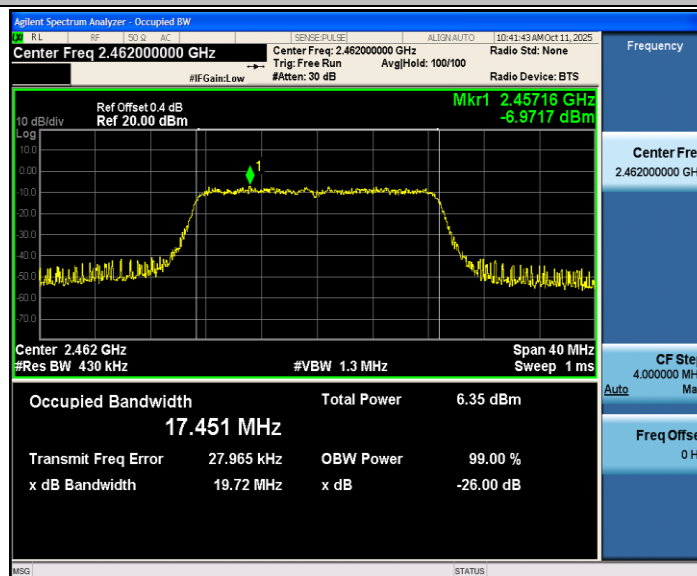
11AX20SISO_Ant1_2412



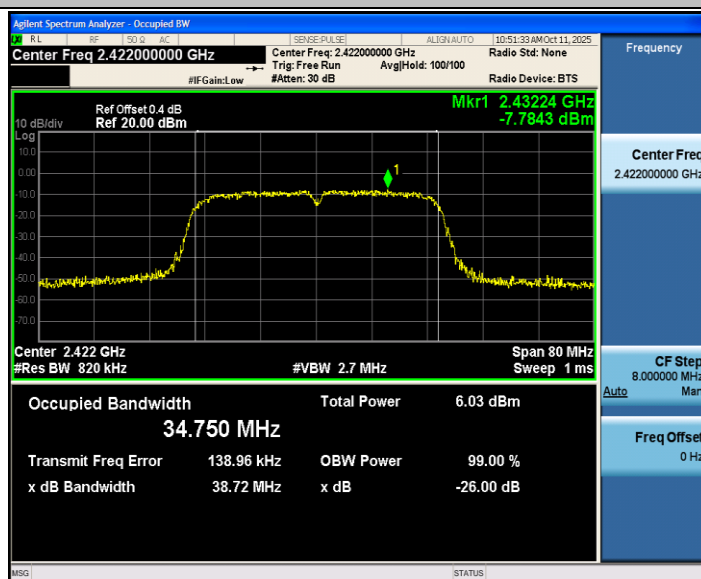
11AX20SISO_Ant1_2437



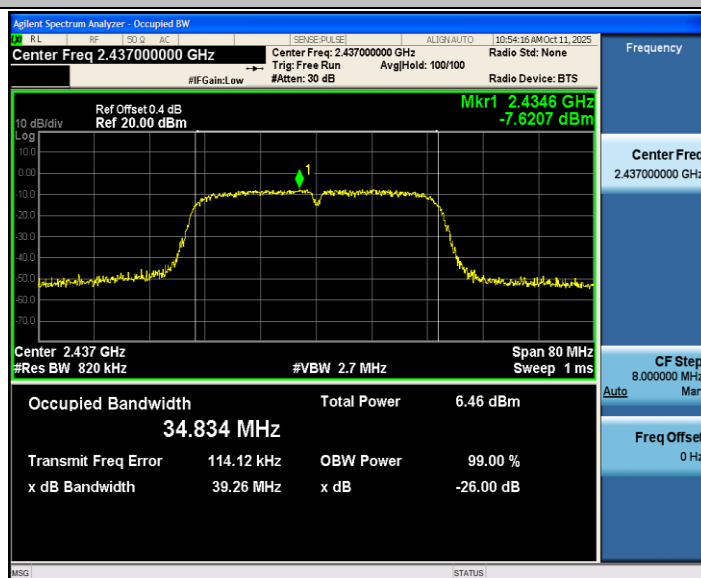
11AX20SISO_Ant1_2462



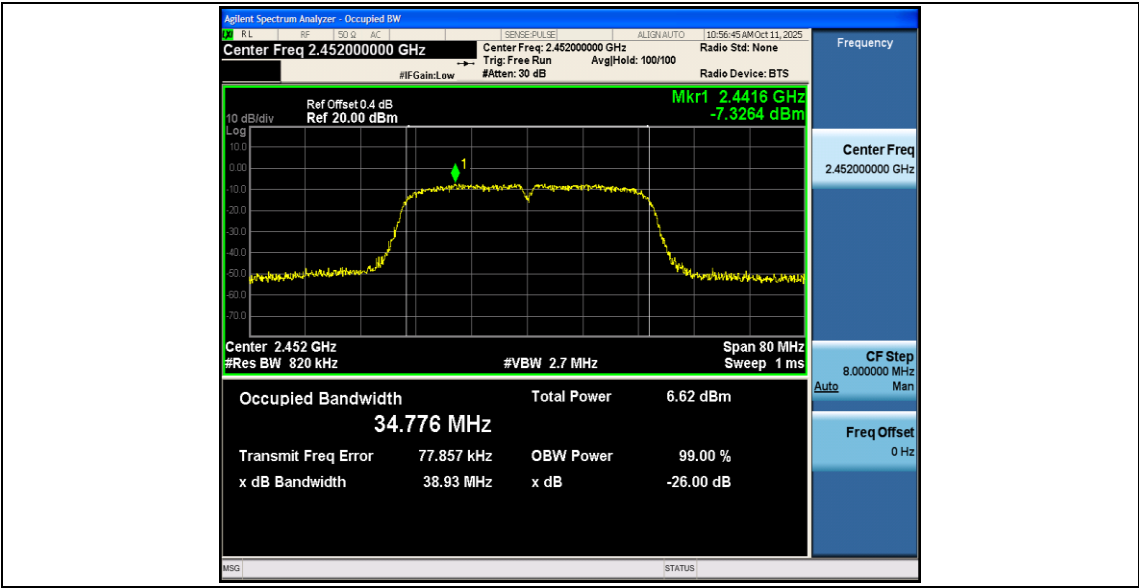
11AX40SISO_Ant1_2422



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	7.88	≤30.00	PASS
		2437	8.06	≤30.00	PASS
		2462	7.97	≤30.00	PASS
11G	Ant1	2412	6.88	≤30.00	PASS
		2437	7.40	≤30.00	PASS
		2462	7.27	≤30.00	PASS
11N20SISO	Ant1	2412	6.99	≤30.00	PASS
		2437	7.79	≤30.00	PASS
		2462	7.56	≤30.00	PASS
11N40SISO	Ant1	2422	6.27	≤30.00	PASS
		2437	6.62	≤30.00	PASS
		2452	6.74	≤30.00	PASS
11AX20SISO	Ant1	2412	7.07	≤30.00	PASS
		2437	7.70	≤30.00	PASS
		2462	7.56	≤30.00	PASS
11AX40SISO	Ant1	2422	6.33	≤30.00	PASS
		2437	6.74	≤30.00	PASS
		2452	6.94	≤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	-20.79	≤8.00	PASS
		2437	-20.81	≤8.00	PASS
		2462	-20.95	≤8.00	PASS
11G	Ant1	2412	-27.60	≤8.00	PASS
		2437	-26.95	≤8.00	PASS
		2462	-27.24	≤8.00	PASS
11N20SISO	Ant1	2412	-27.19	≤8.00	PASS
		2437	-26.67	≤8.00	PASS
		2462	-26.86	≤8.00	PASS
11N40SISO	Ant1	2422	-29.12	≤8.00	PASS
		2437	-28.88	≤8.00	PASS
		2452	-28.44	≤8.00	PASS
11AX20SISO	Ant1	2412	-27.21	≤8.00	PASS
		2437	-26.60	≤8.00	PASS
		2462	-26.92	≤8.00	PASS
11AX40SISO	Ant1	2422	-28.97	≤8.00	PASS
		2437	-28.76	≤8.00	PASS
		2452	-28.51	≤8.00	PASS

Test Graphs

11B_Ant1_2412



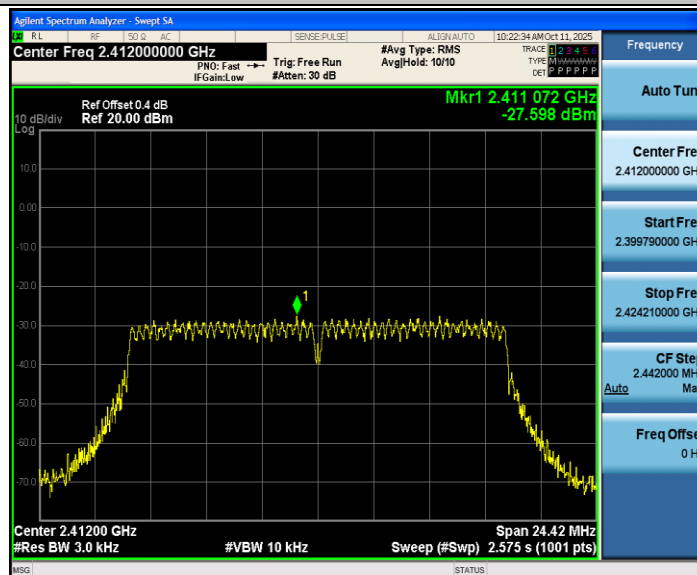
11B_Ant1_2437



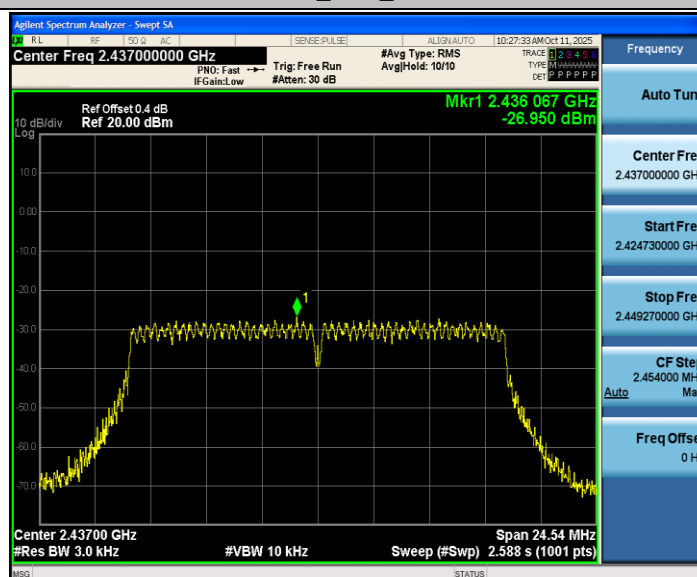
11B_Ant1_2462



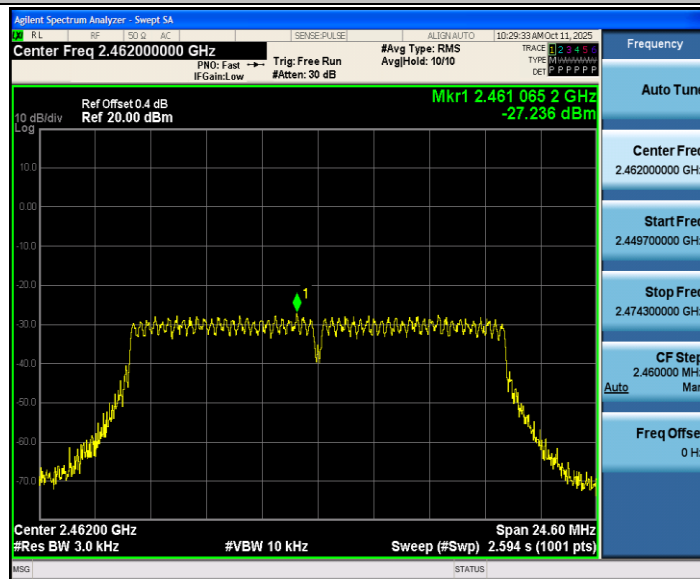
11G_Ant1_2412



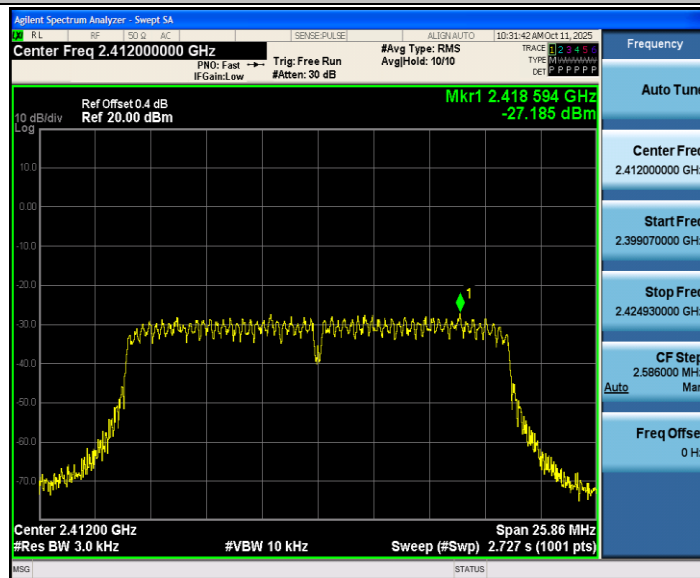
11G_Ant1_2437



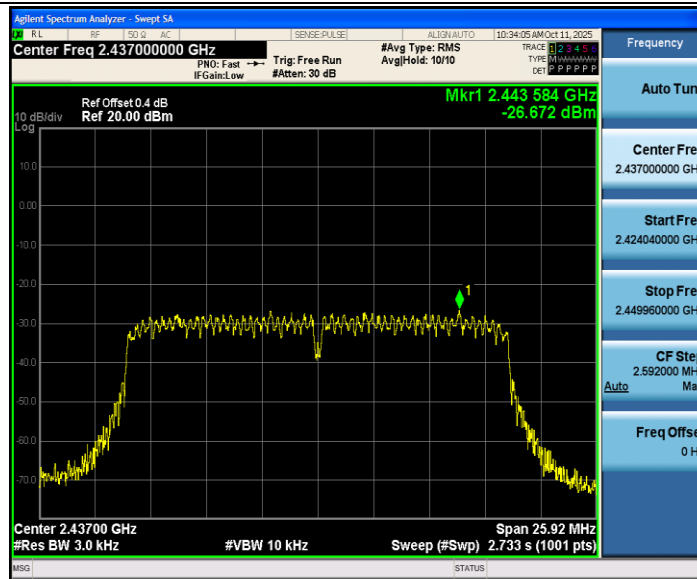
11G_Ant1_2462



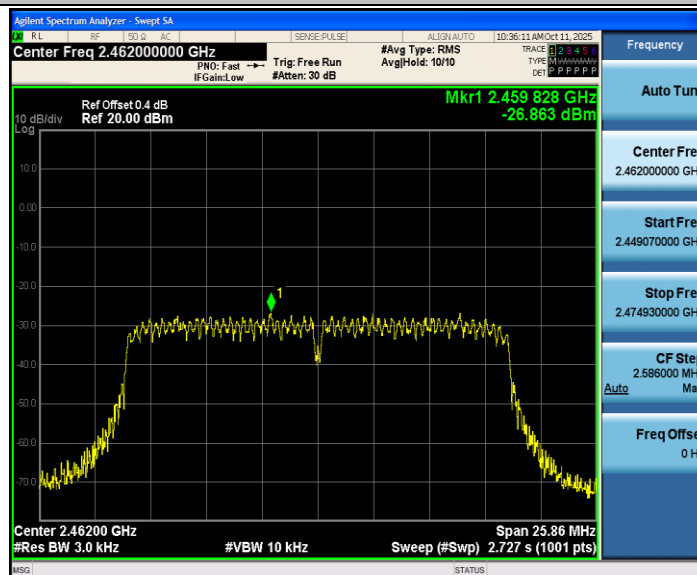
11N20SISO_Ant1_2412



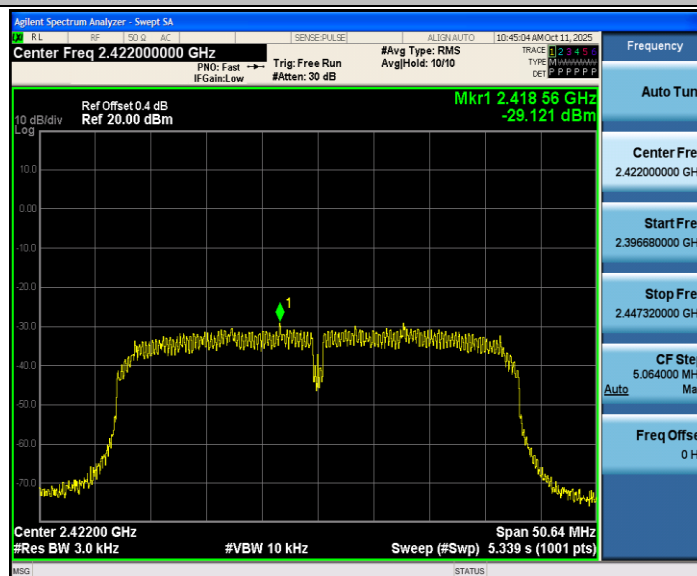
11N20SISO_Ant1_2437



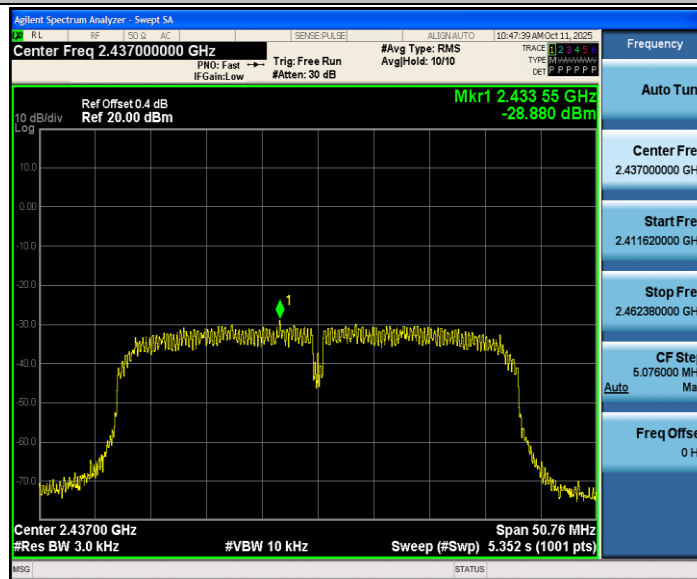
11N20SISO_Ant1_2462



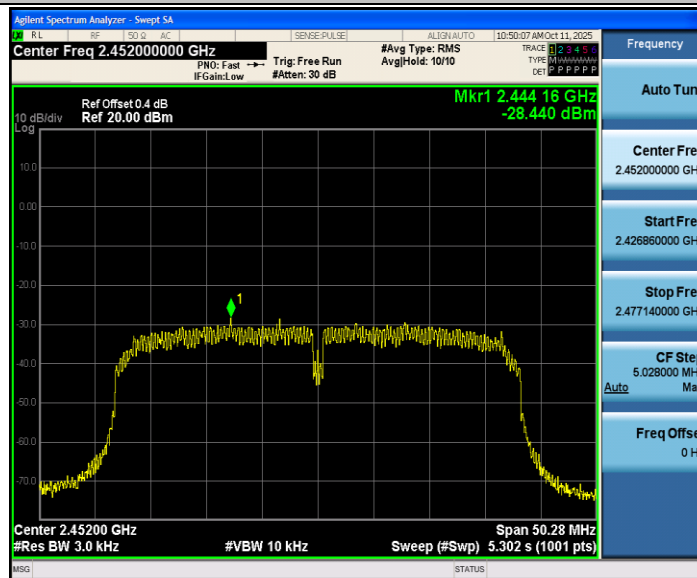
11N40SISO_Ant1_2422



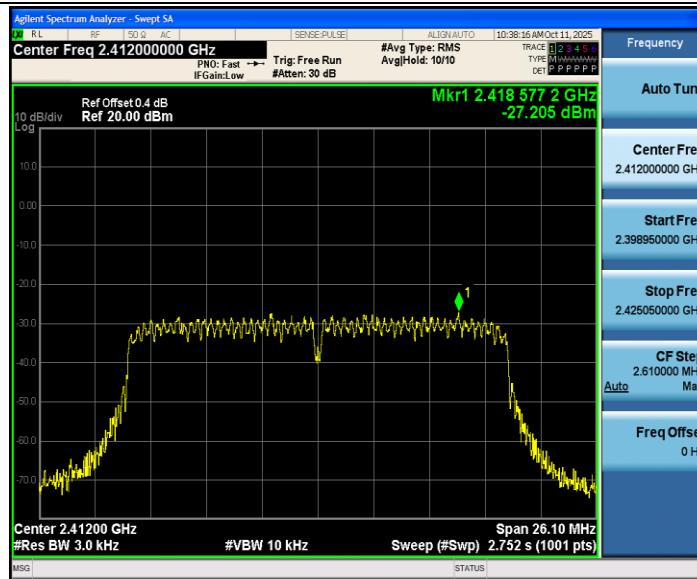
11N40SISO_Ant1_2437



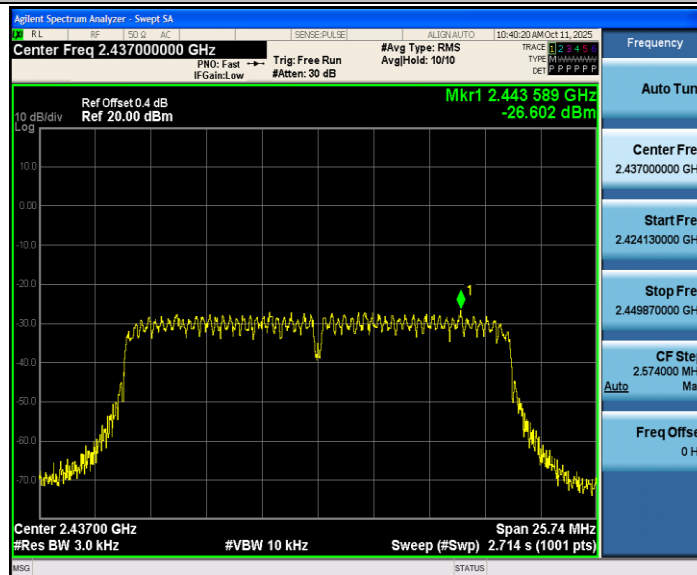
11N40SISO_Ant1_2452



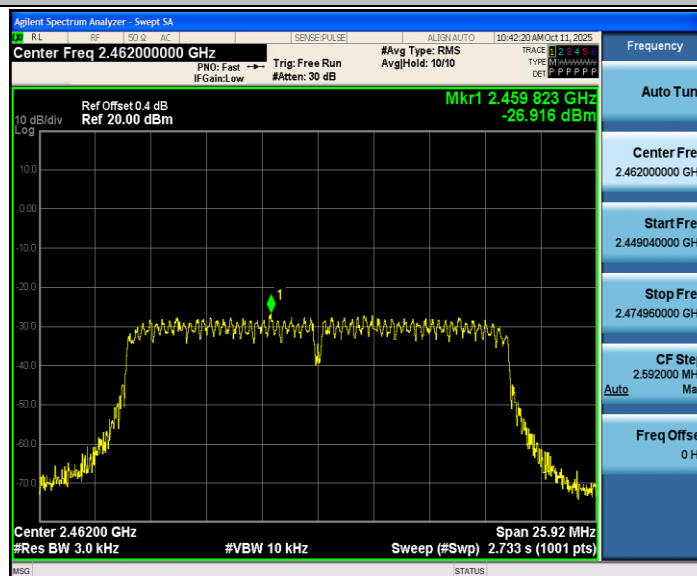
11AX20SISO_Ant1_2412



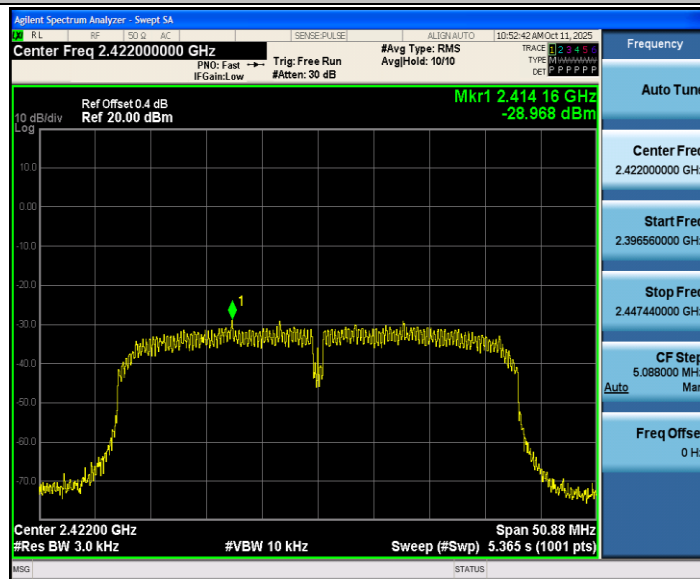
11AX20SISO_Ant1_2437



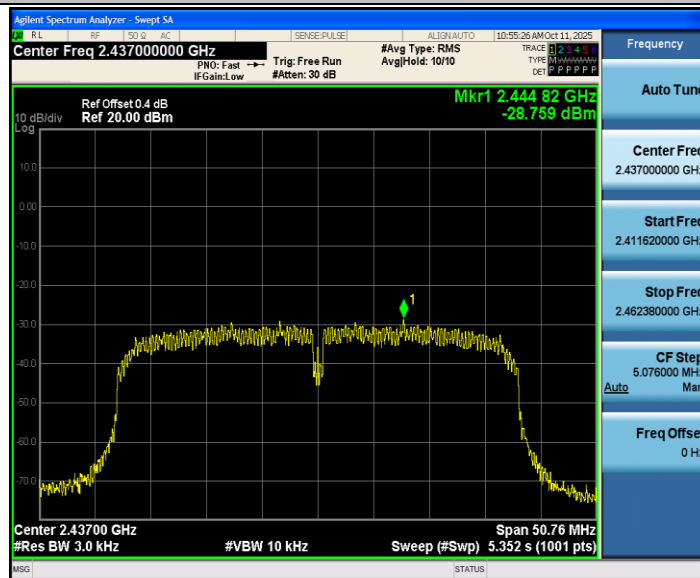
11AX20SISO_Ant1_2462



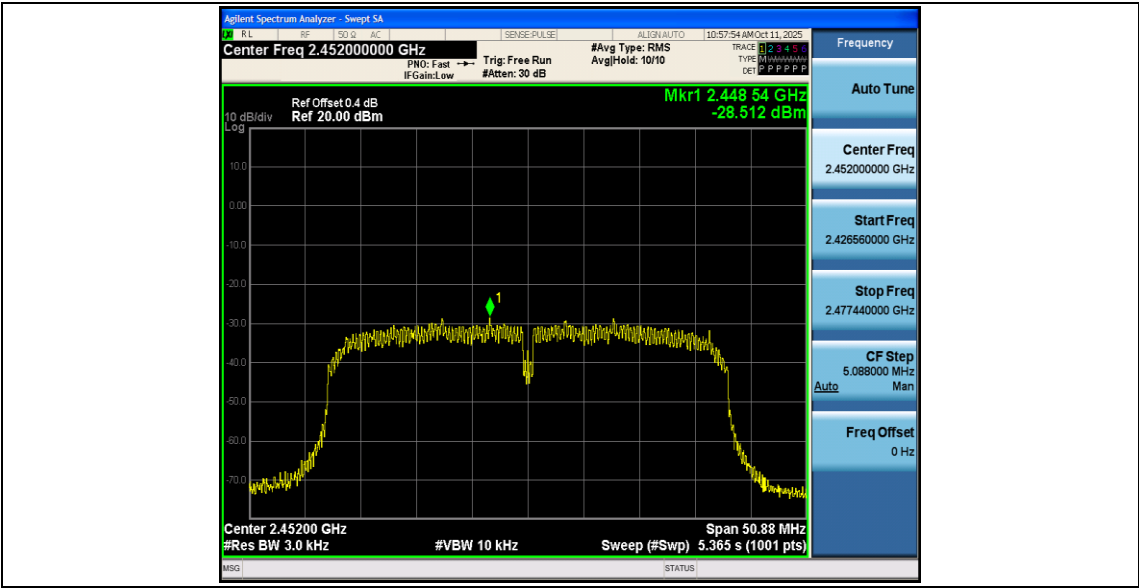
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



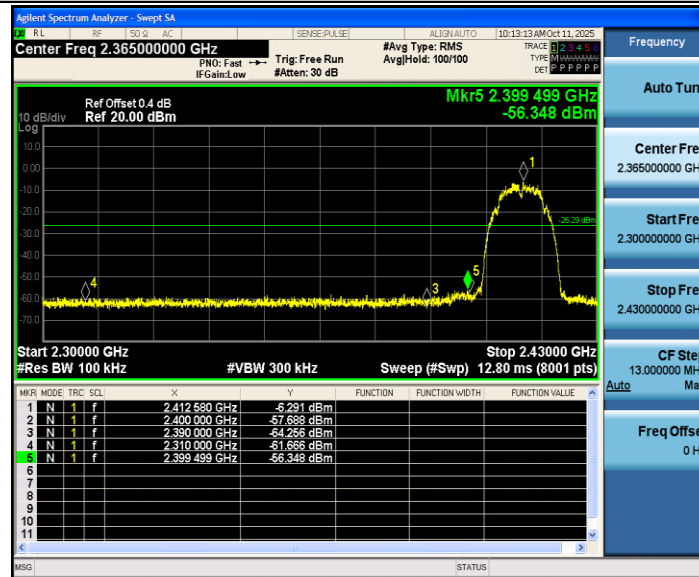
Appendix E: Band edge measurements

Test Result

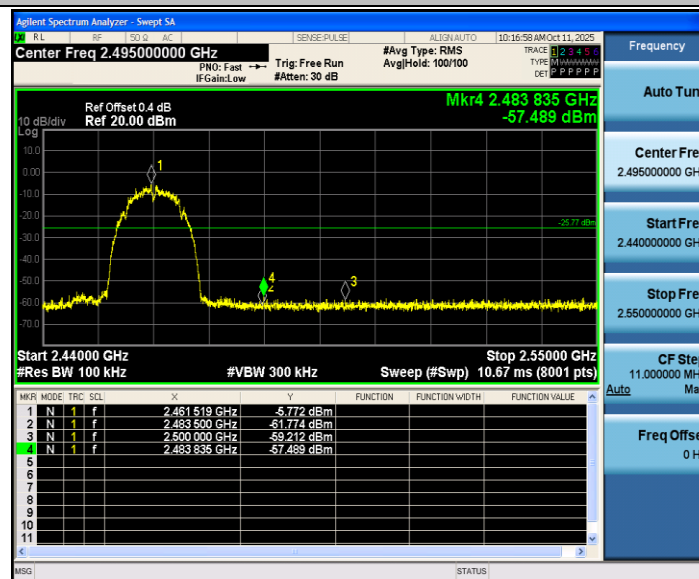
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.29	-56.35	≤-26.29	PASS
		High	2462	-5.77	-57.49	≤-25.77	PASS
11G	Ant1	Low	2412	-13.63	-49.03	≤-33.63	PASS
		High	2462	-13.21	-55.71	≤-33.21	PASS
11N20SISO	Ant1	Low	2412	-13.61	-52.04	≤-33.61	PASS
		High	2462	-12.82	-56.51	≤-32.82	PASS
11N40SISO	Ant1	Low	2422	-16.93	-54.47	≤-36.93	PASS
		High	2452	-16.07	-57.2	≤-36.07	PASS
11AX20SISO	Ant1	Low	2412	-13.52	-50.41	≤-33.52	PASS
		High	2462	-13.25	-55.94	≤-33.25	PASS
11AX40SISO	Ant1	Low	2422	-16.70	-54.57	≤-36.7	PASS
		High	2452	-16.00	-57.35	≤-36	PASS

Test Graphs

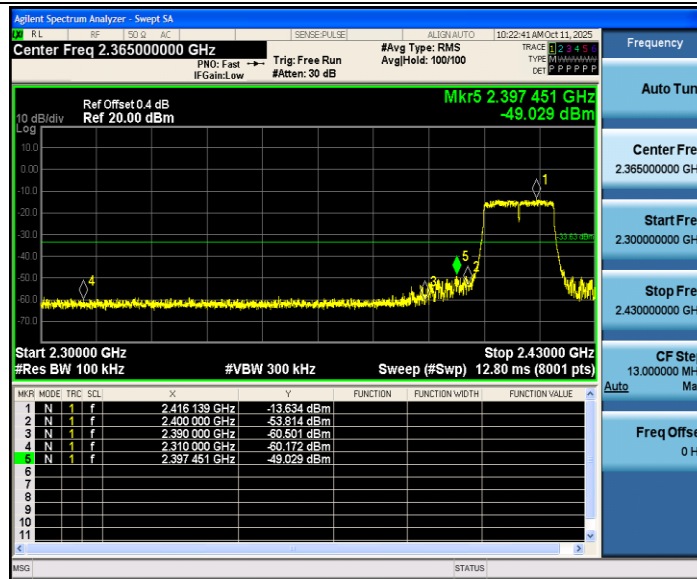
11B_Ant1_Low_2412



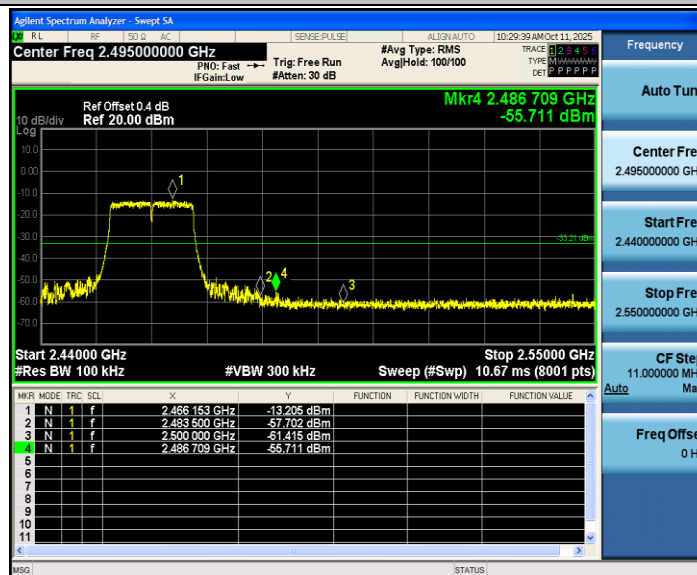
11B_Ant1_High_2462



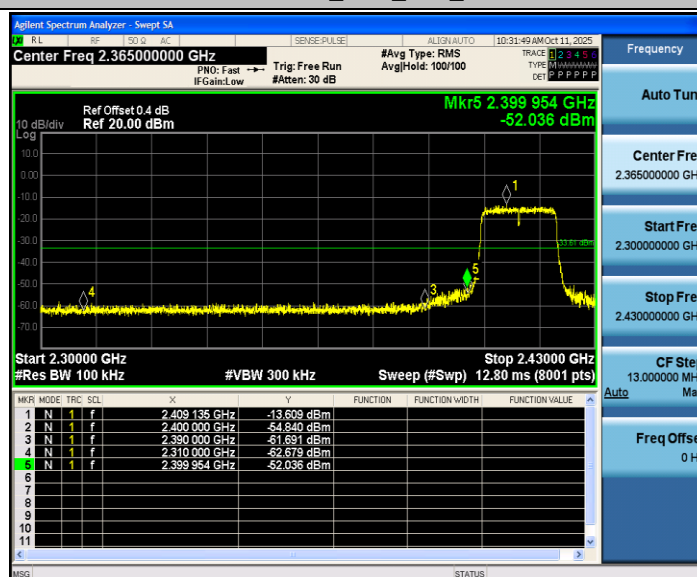
11G_Ant1_Low_2412



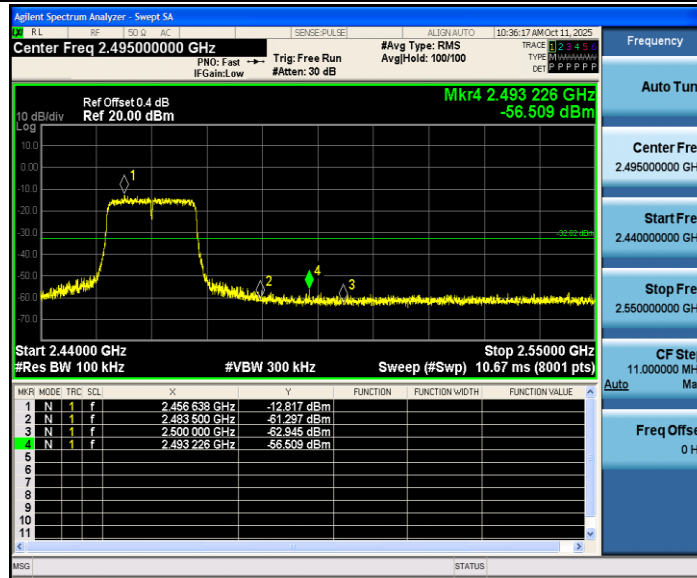
11G_Ant1_High_2462



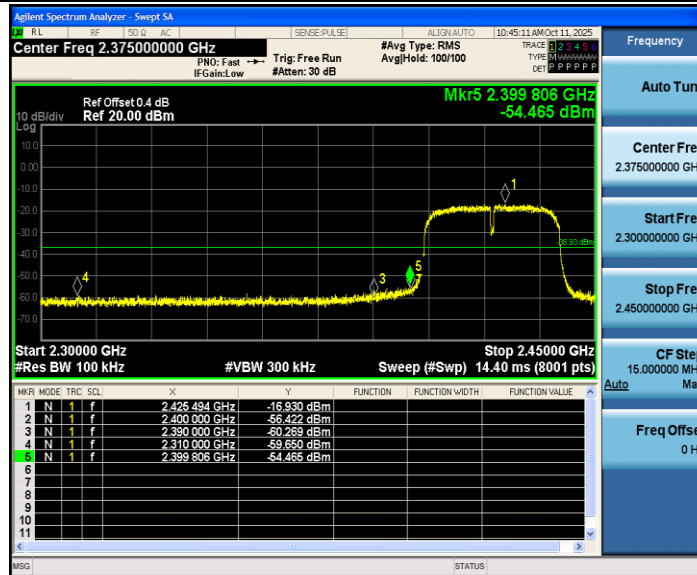
11N20SISO_Ant1_Low_2412



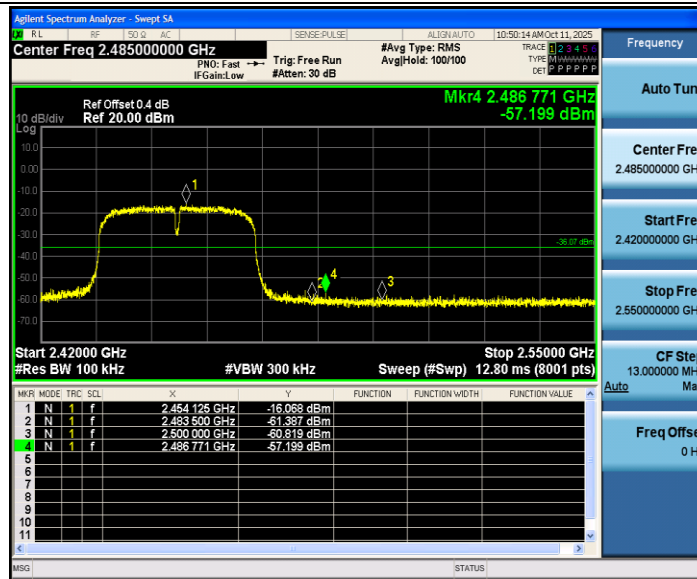
11N20SISO_Ant1_High_2462



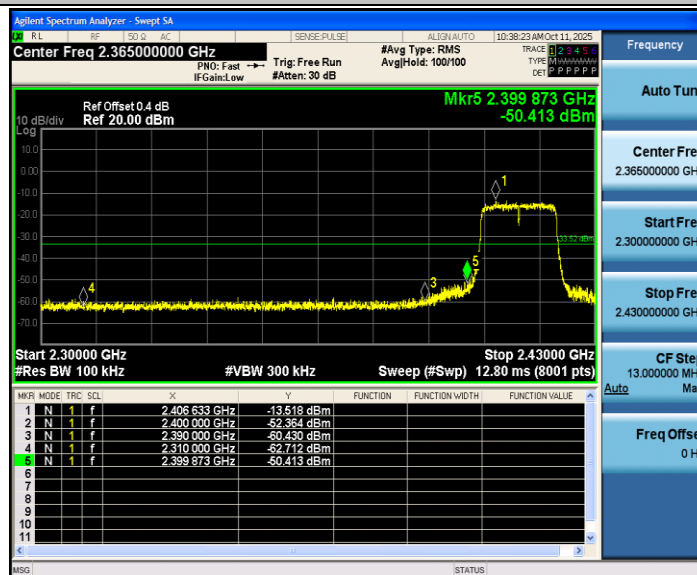
11N40SISO_Ant1_Low_2422



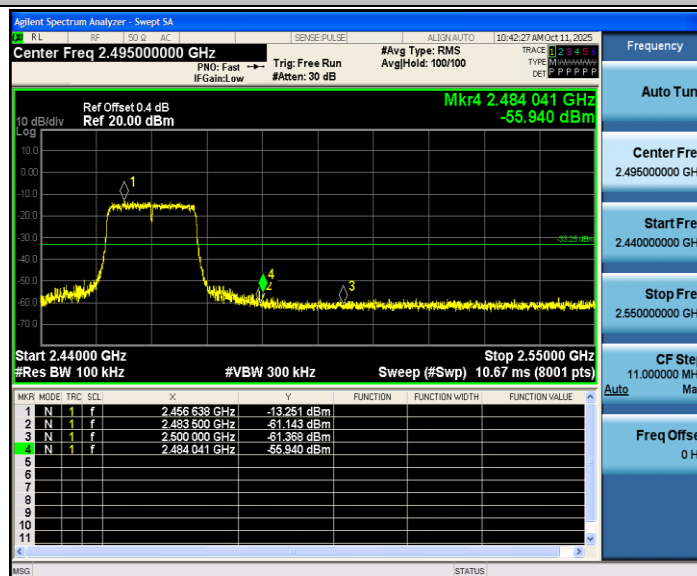
11N40SISO_Ant1_High_2452



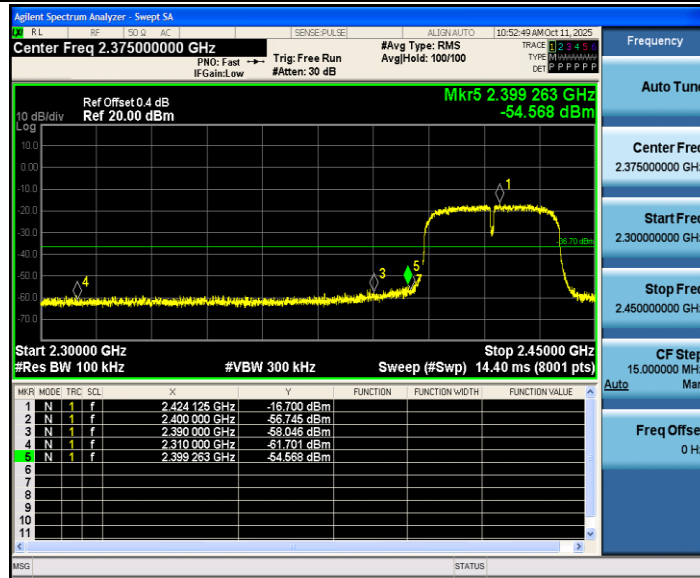
11AX20SISO_Ant1_Low_2412



11AX20SISO_Ant1_High_2462



11AX40SISO_Ant1_Low_2422



11AX40SISO_Ant1_High_2452

