

FCC Appendix RF Test Data

FCC ID : 2BRB9-X200

Company : Shenzhen zhengqing Technology Co., Ltd.

EUT : ZICALSTAR

Model Number : X200

Report No. : CTA25080703301

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	8.080	2408.440	2416.520	0.5	PASS
		2437	8.080	2432.960	2441.040	0.5	PASS
		2462	8.960	2457.520	2466.480	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	15.920	2454.240	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.320	2404.080	2420.400	0.5	PASS
		2437	16.880	2428.480	2445.360	0.5	PASS
		2462	16.920	2453.640	2470.560	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.320	2440.080	0.5	PASS
		2437	35.200	2419.400	2454.600	0.5	PASS
		2452	35.280	2434.320	2469.600	0.5	PASS
11AX20SISO	Ant1	2412	16.400	2403.960	2420.360	0.5	PASS
		2437	17.160	2428.480	2445.640	0.5	PASS
		2462	16.760	2453.760	2470.520	0.5	PASS
11AX40SISO	Ant1	2422	35.760	2404.080	2439.840	0.5	PASS
		2437	35.520	2419.400	2454.920	0.5	PASS
		2452	35.200	2434.400	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



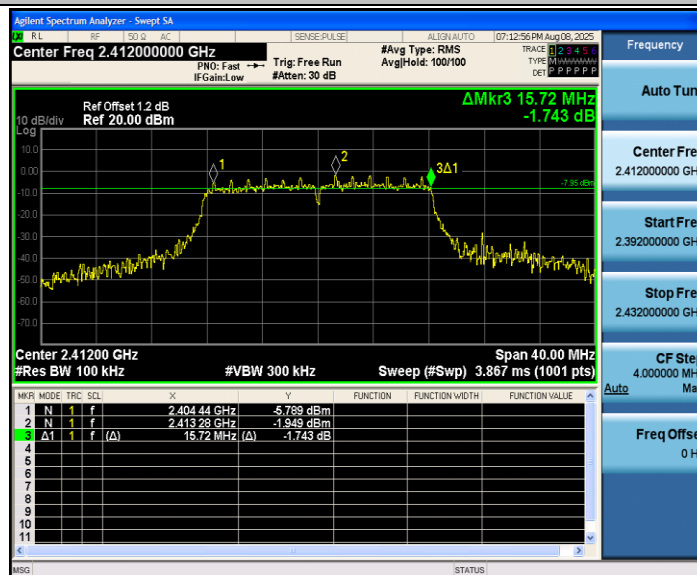
11B_Ant1_2437



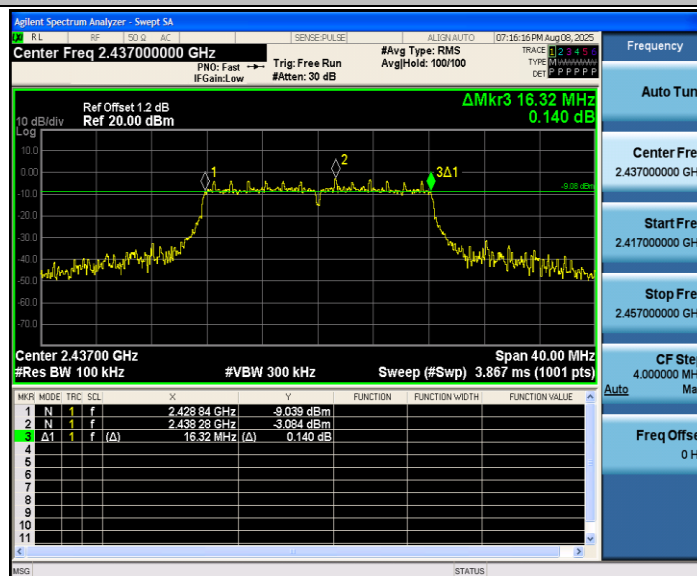
11B_Ant1_2462

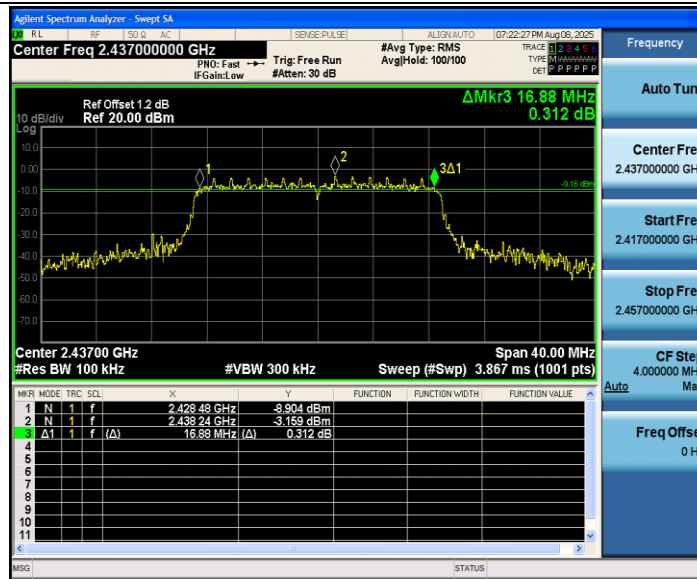


11G_Ant1_2412

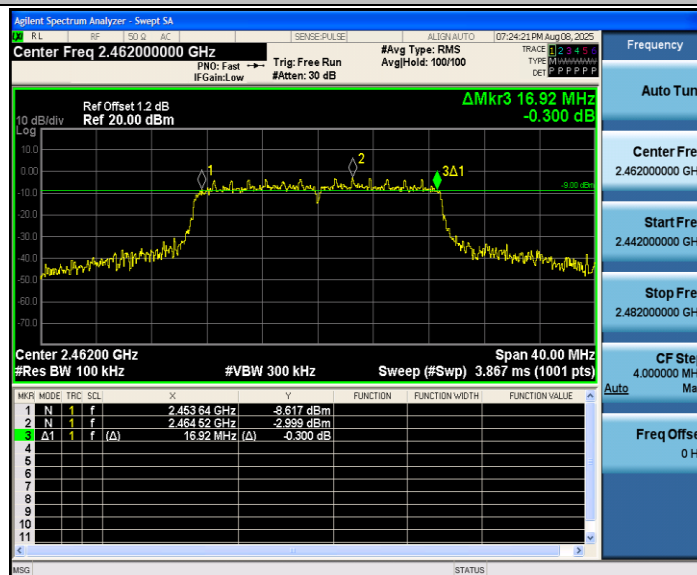


11G_Ant1_2437

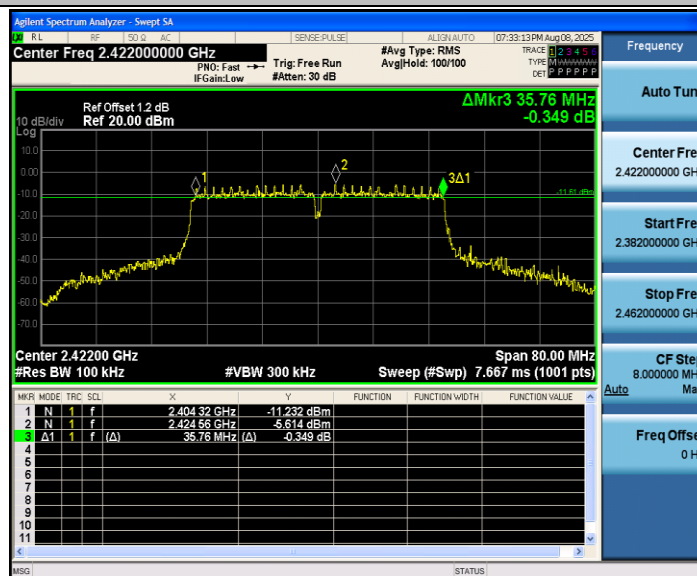




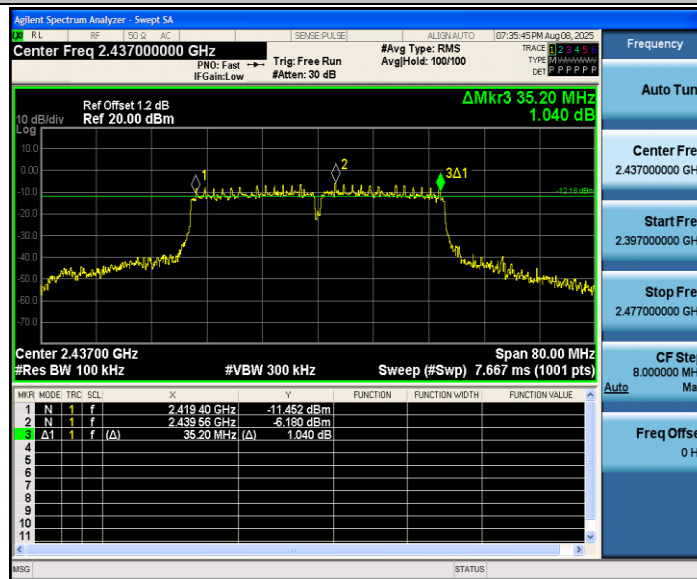
11N20SISO_Ant1_2462



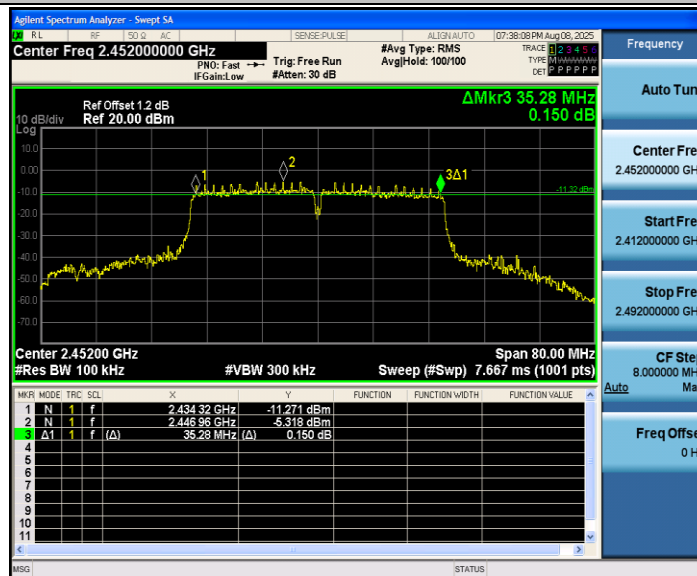
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



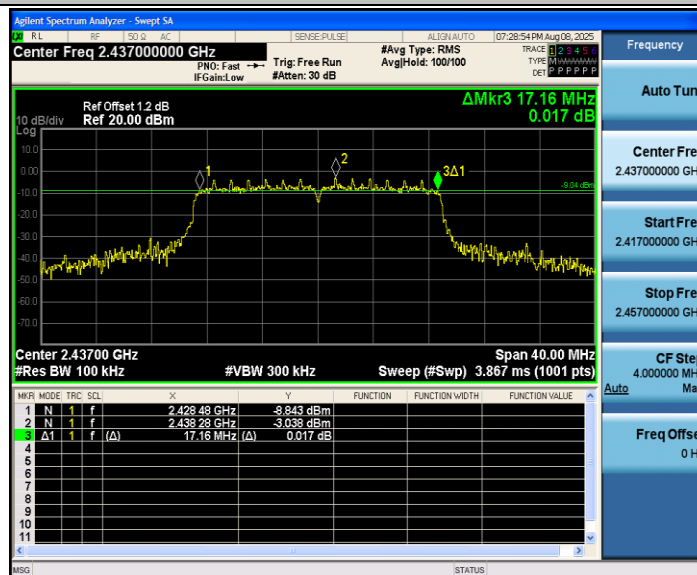
11N40SISO_Ant1_2452



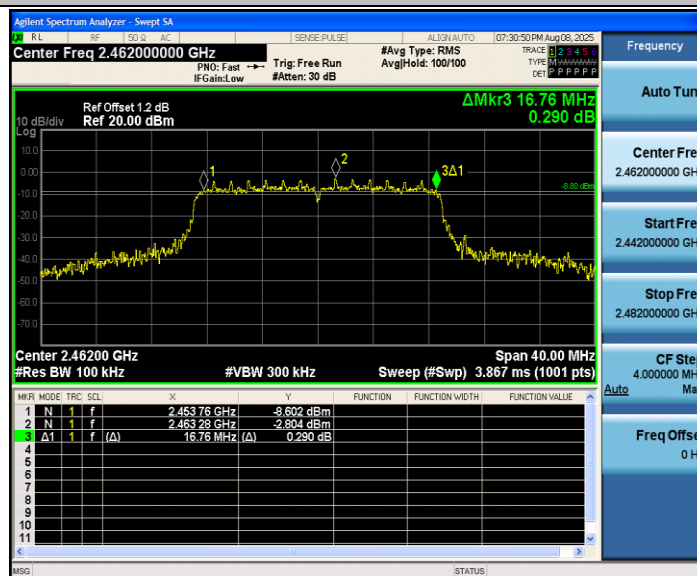
11AX20SISO_Ant1_2412



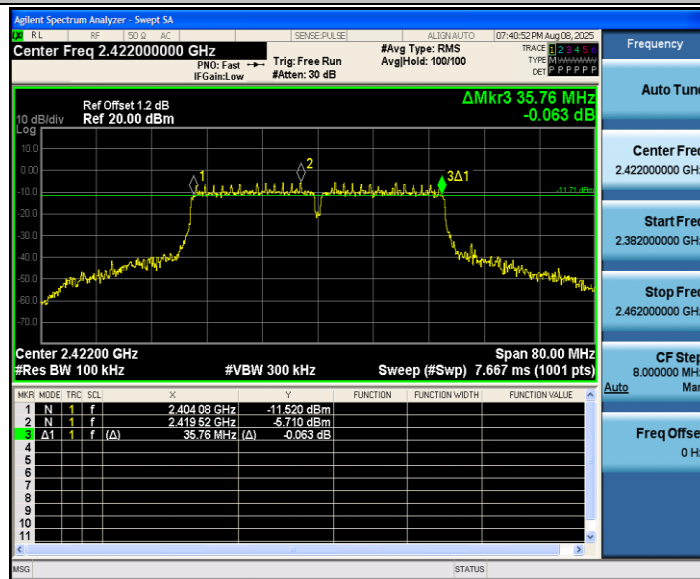
11AX20SISO_Ant1_2437



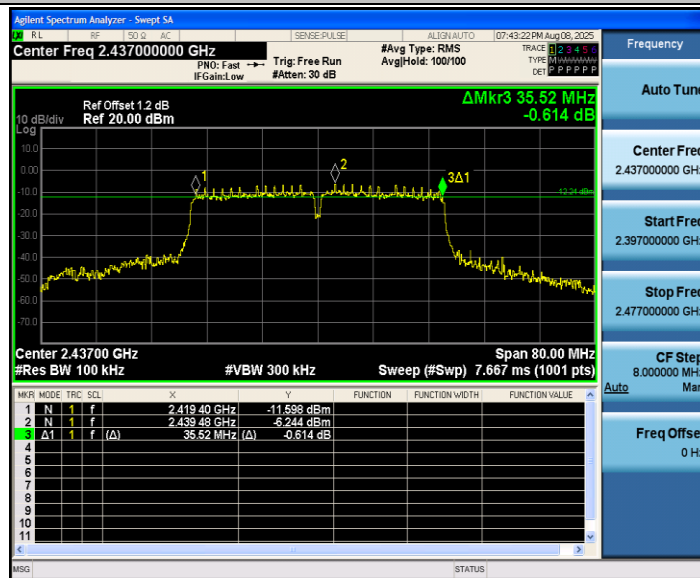
11AX20SISO_Ant1_2462



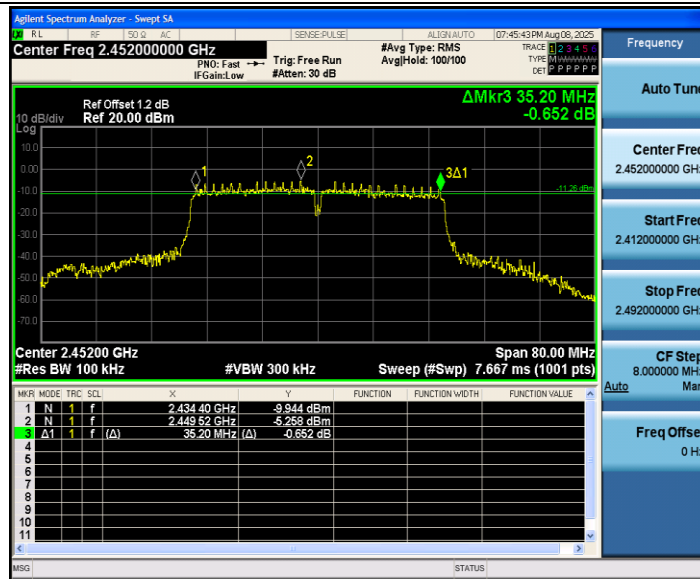
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



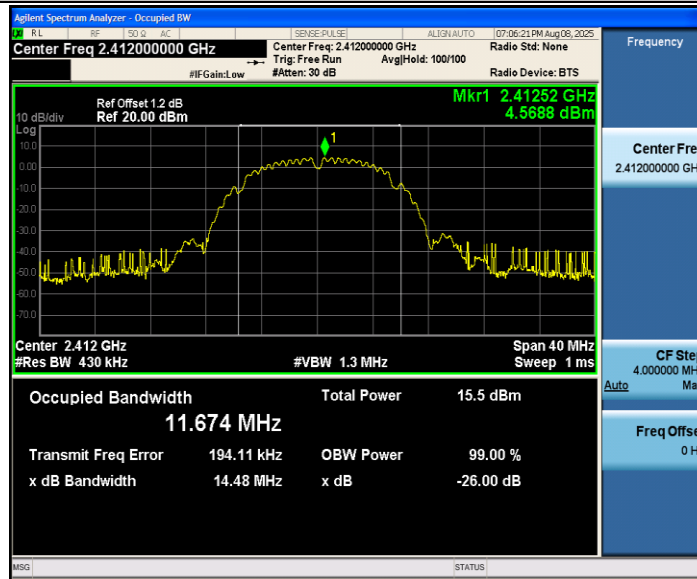
Appendix B: Occupied Channel Bandwidth

Test Result

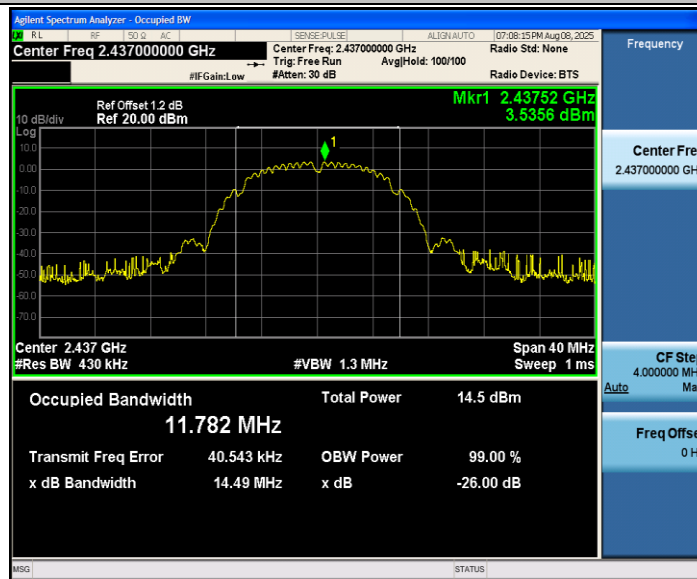
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.674	2406.3571	2418.0311	---	---
		2437	11.782	2431.1495	2442.9315	---	---
		2462	11.786	2456.1826	2467.9686	---	---
11G	Ant1	2412	16.666	2403.8096	2420.4756	---	---
		2437	16.728	2428.6432	2445.3712	---	---
		2462	16.687	2453.7265	2470.4135	---	---
11N20SISO	Ant1	2412	17.515	2403.3441	2420.8591	---	---
		2437	17.627	2428.1969	2445.8239	---	---
		2462	17.650	2453.2508	2470.9008	---	---
11N40SISO	Ant1	2422	36.255	2404.0029	2440.2579	---	---
		2437	36.198	2418.9591	2455.1571	---	---
		2452	36.182	2433.9215	2470.1035	---	---
11AX20SISO	Ant1	2412	17.584	2403.3236	2420.9076	---	---
		2437	17.644	2428.2104	2445.8544	---	---
		2462	17.660	2453.2271	2470.8871	---	---
11AX40SISO	Ant1	2422	36.310	2403.9299	2440.2399	---	---
		2437	36.273	2418.9242	2455.1972	---	---
		2452	36.246	2433.8704	2470.1164	---	---

Test Graphs

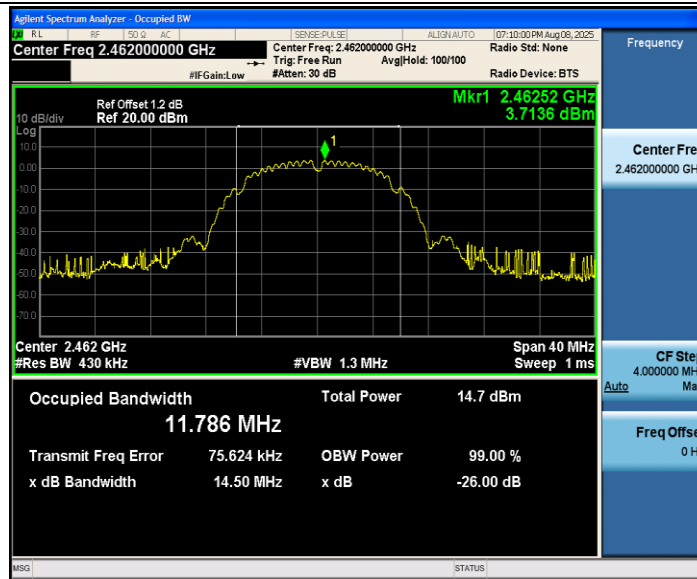
11B_Ant1_2412



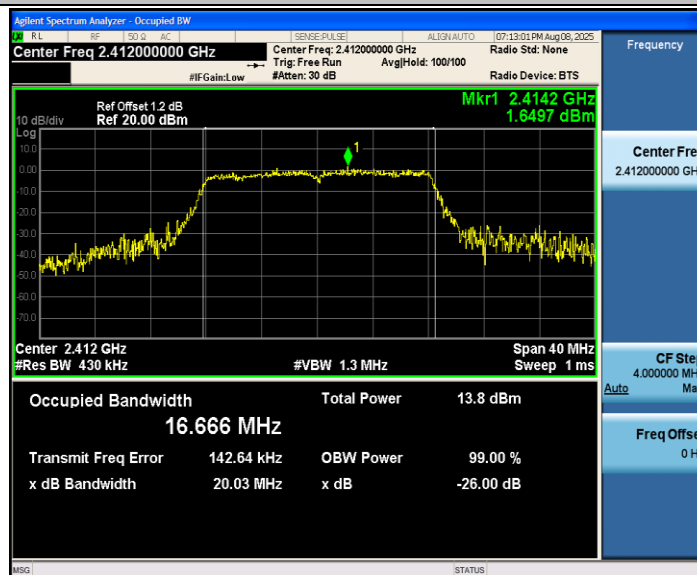
11B_Ant1_2437



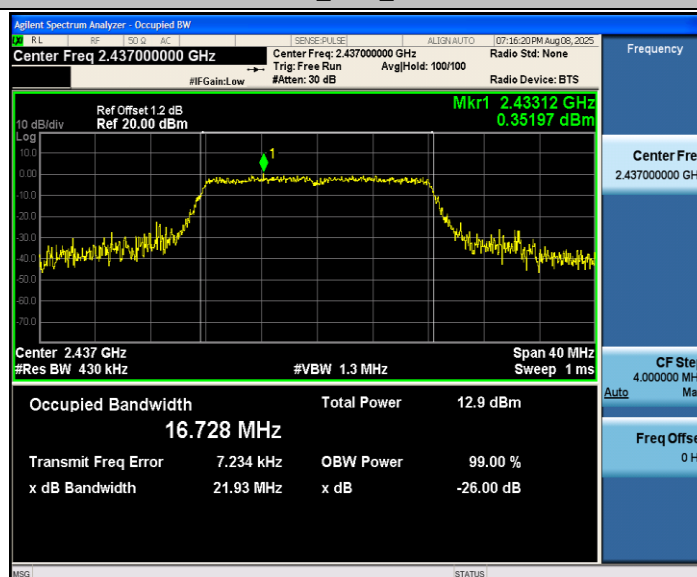
11B_Ant1_2462



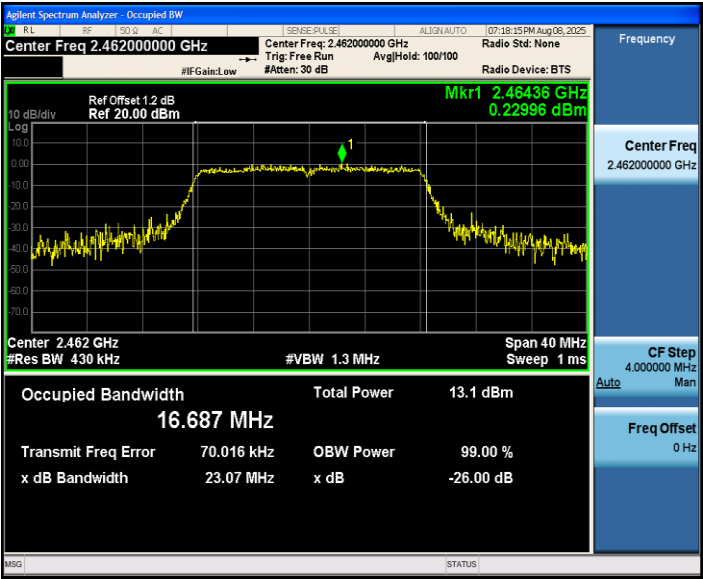
11G_Ant1_2412



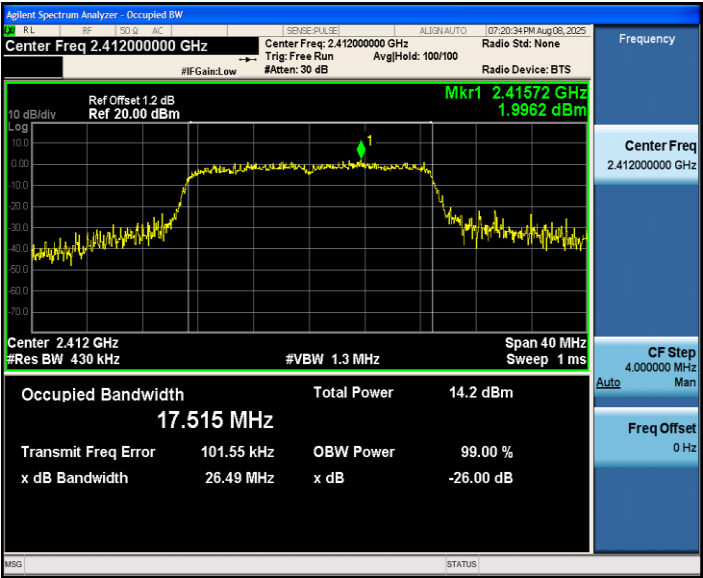
11G_Ant1_2437



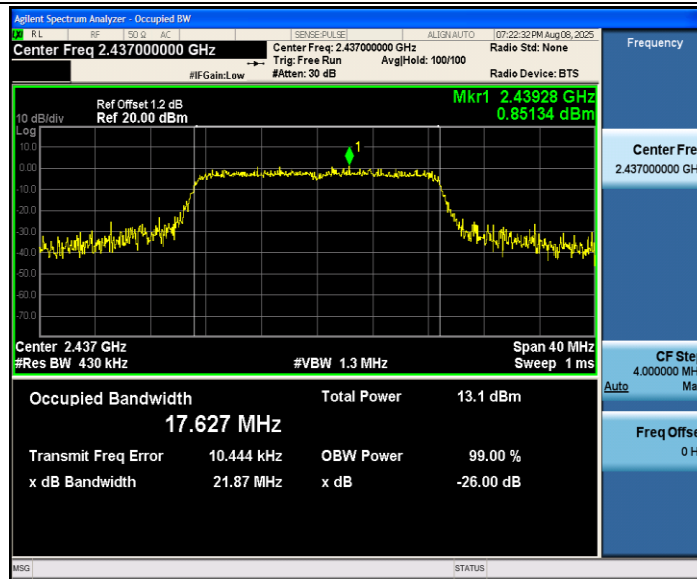
11G_Ant1_2462



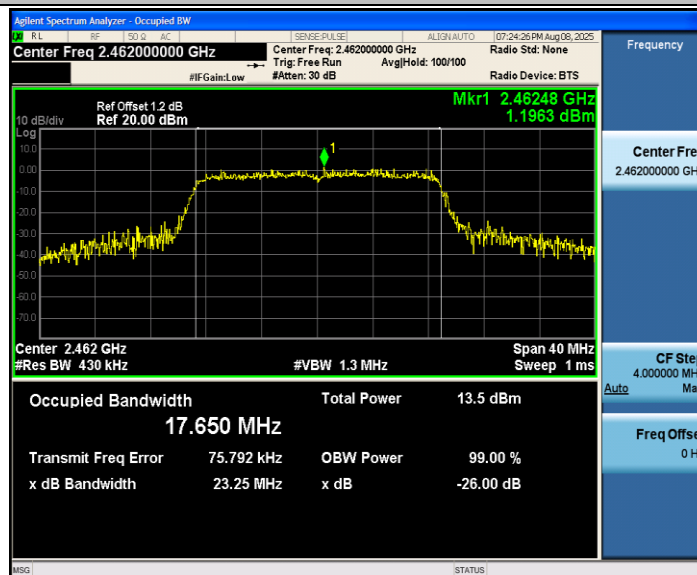
11N20SISO_Ant1_2412



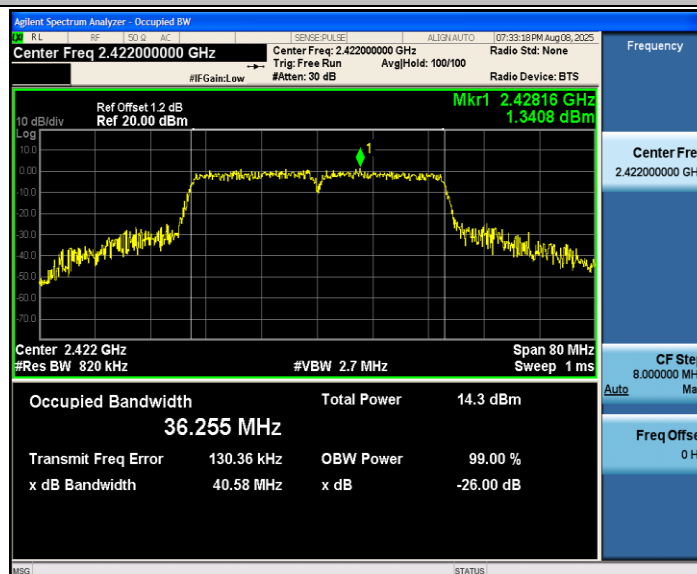
11N20SISO_Ant1_2437



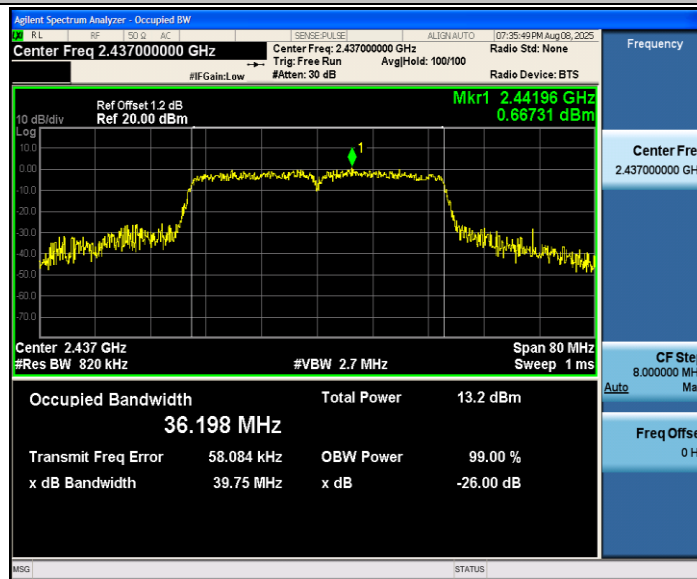
11N20SISO_Ant1_2462



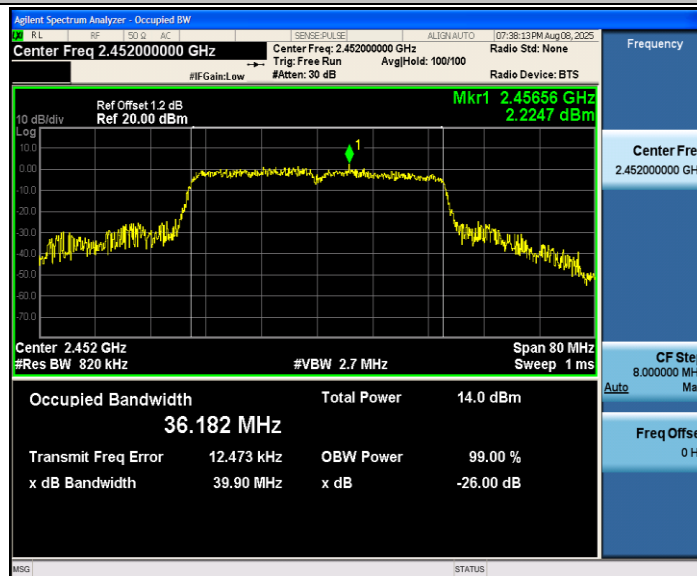
11N40SISO_Ant1_2422



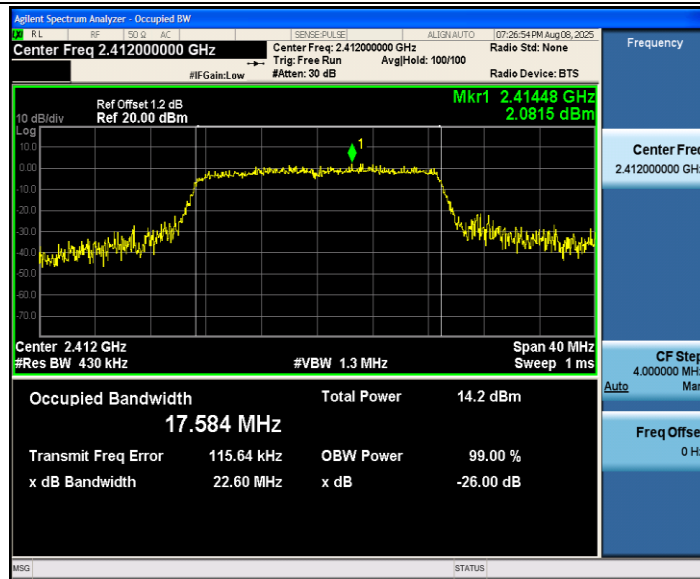
11N40SISO_Ant1_2437



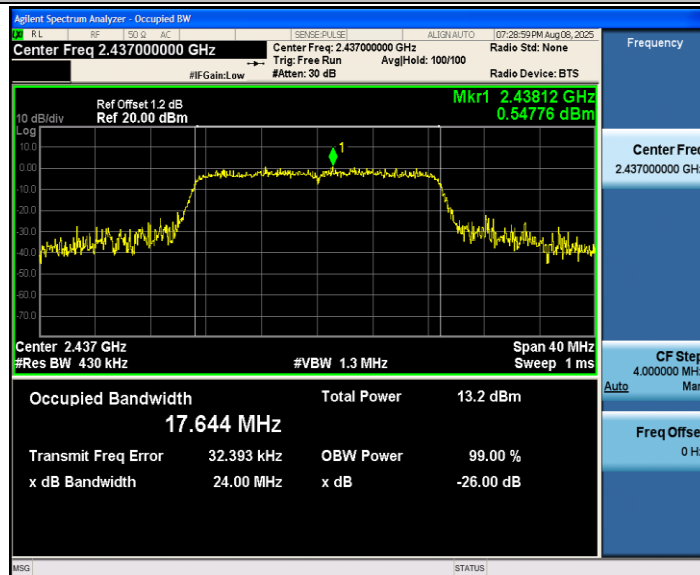
11N40SISO_Ant1_2452



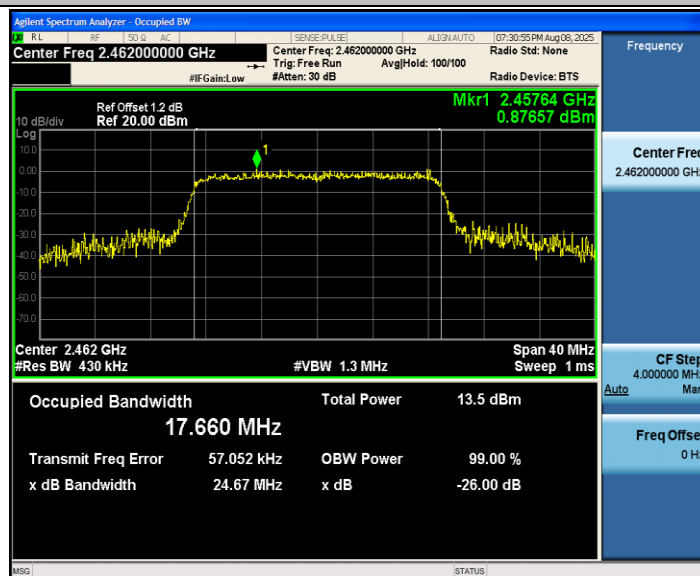
11AX20SISO_Ant1_2412



11AX20ISO_Ant1_2437



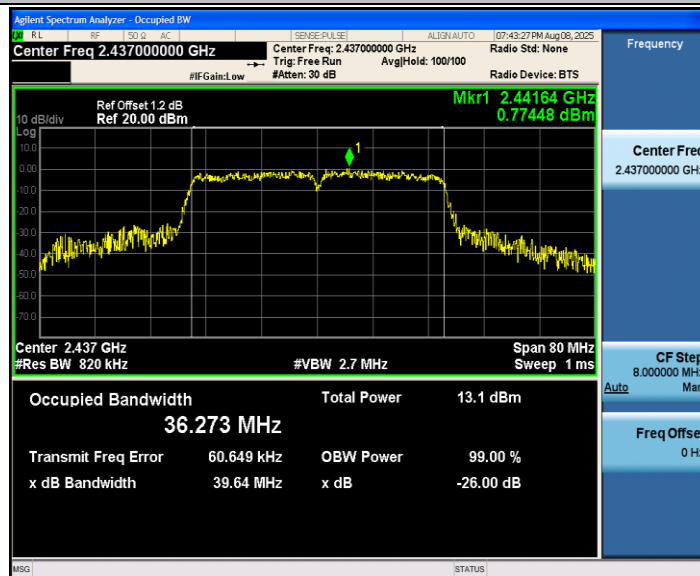
11AX20ISO_Ant1_2462



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	15.17	≤30.00	PASS
		2437	14.15	≤30.00	PASS
		2462	14.58	≤30.00	PASS
11G	Ant1	2412	14.47	≤30.00	PASS
		2437	13.73	≤30.00	PASS
		2462	13.90	≤30.00	PASS
11N20SISO	Ant1	2412	14.85	≤30.00	PASS
		2437	13.94	≤30.00	PASS
		2462	14.03	≤30.00	PASS
11N40SISO	Ant1	2422	14.45	≤30.00	PASS
		2437	13.28	≤30.00	PASS
		2452	14.30	≤30.00	PASS
11AX20SISO	Ant1	2412	14.79	≤30.00	PASS
		2437	14.08	≤30.00	PASS
		2462	14.00	≤30.00	PASS
11AX40SISO	Ant1	2422	14.42	≤30.00	PASS
		2437	13.36	≤30.00	PASS
		2452	14.07	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

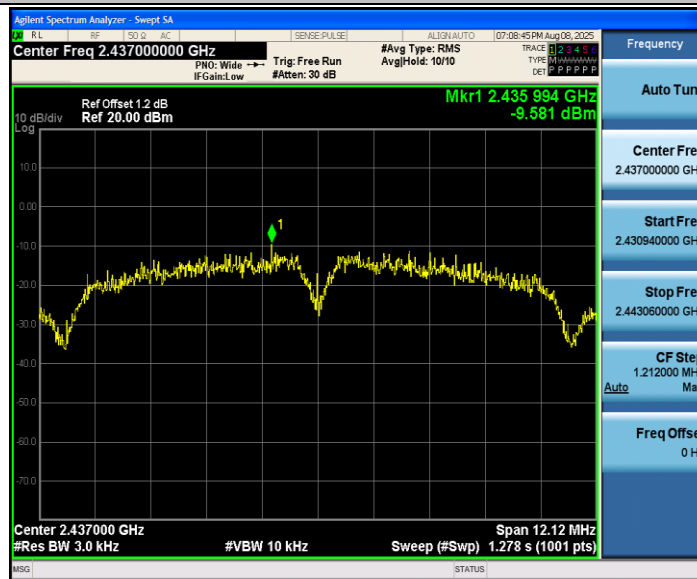
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.47	≤8.00	PASS
		2437	-9.58	≤8.00	PASS
		2462	-10.63	≤8.00	PASS
11G	Ant1	2412	-17.45	≤8.00	PASS
		2437	-18.58	≤8.00	PASS
		2462	-17.90	≤8.00	PASS
11N20SISO	Ant1	2412	-17.48	≤8.00	PASS
		2437	-18.53	≤8.00	PASS
		2462	-18.75	≤8.00	PASS
11N40SISO	Ant1	2422	-19.65	≤8.00	PASS
		2437	-20.85	≤8.00	PASS
		2452	-20.94	≤8.00	PASS
11AX20SISO	Ant1	2412	-17.34	≤8.00	PASS
		2437	-18.50	≤8.00	PASS
		2462	-17.31	≤8.00	PASS
11AX40SISO	Ant1	2422	-20.84	≤8.00	PASS
		2437	-21.37	≤8.00	PASS
		2452	-20.72	≤8.00	PASS

Test Graphs

11B_Ant1_2412



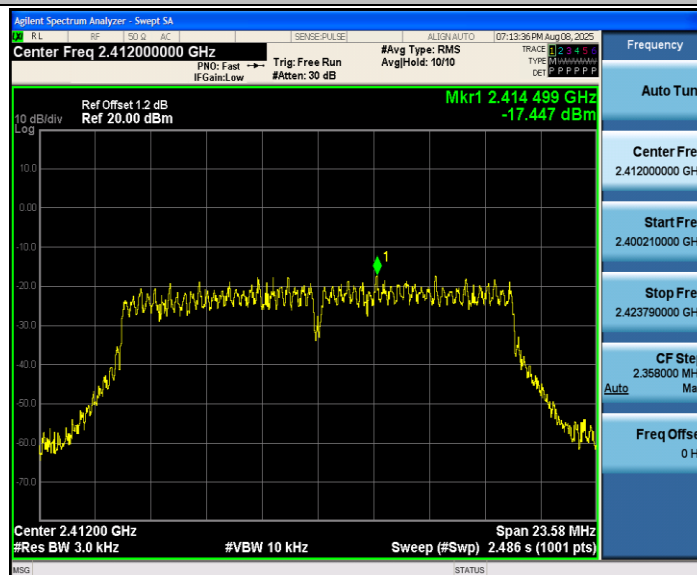
11B_Ant1_2437



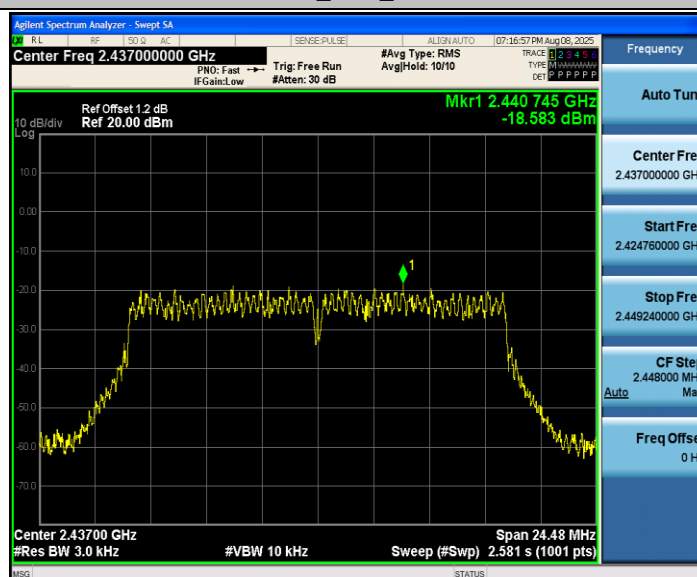
11B_Ant1_2462



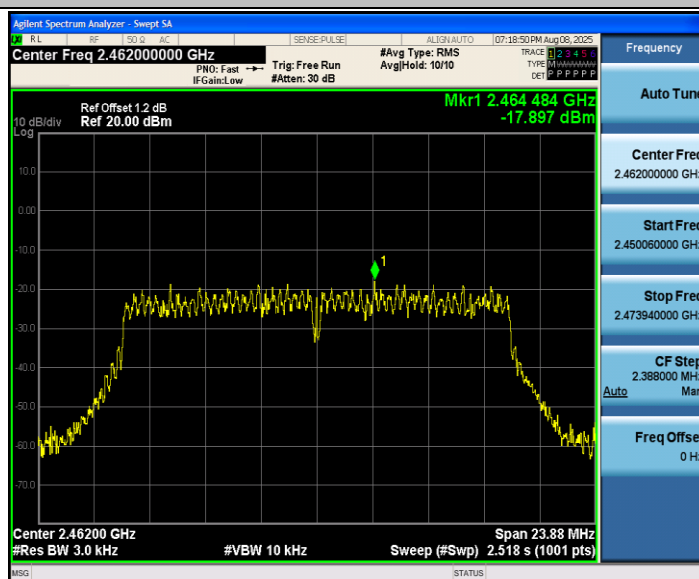
11G_Ant1_2412



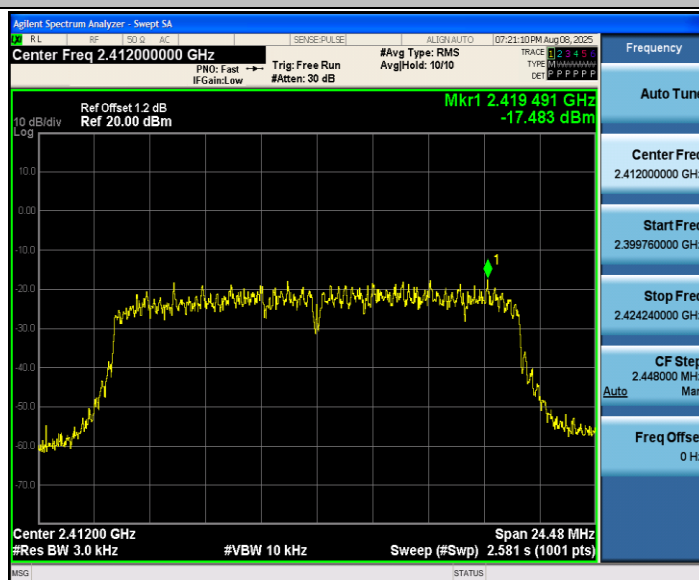
11G_Ant1_2437



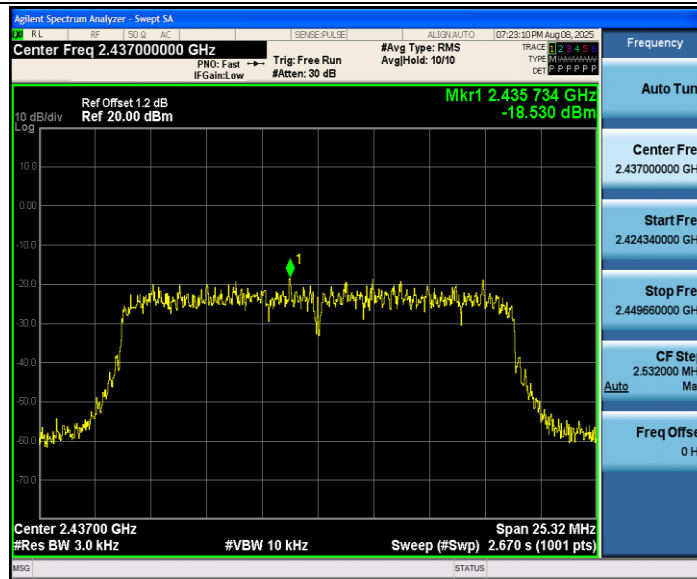
11G_Ant1_2462



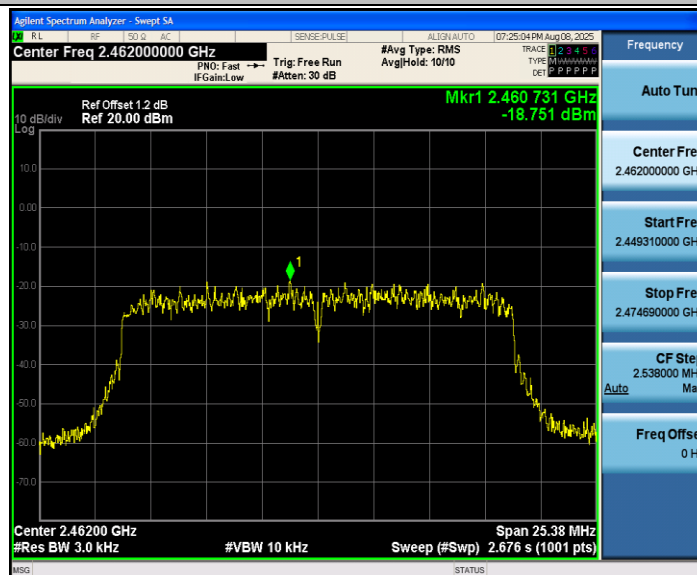
11N20SISO_Ant1_2412



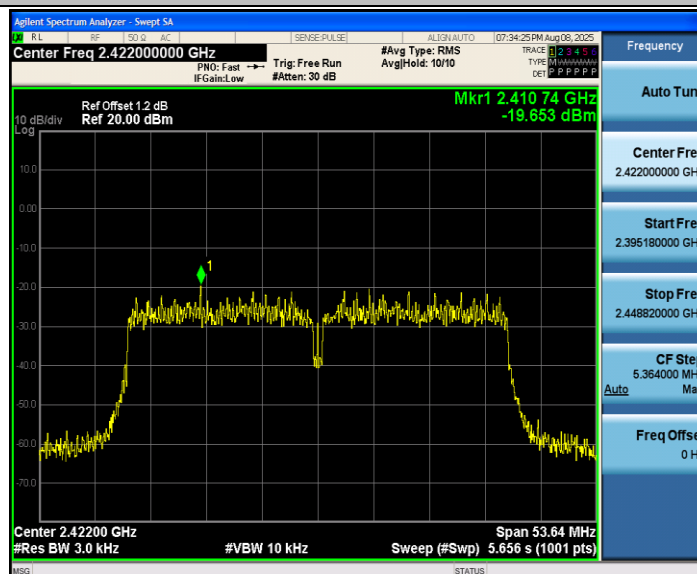
11N20SISO_Ant1_2437



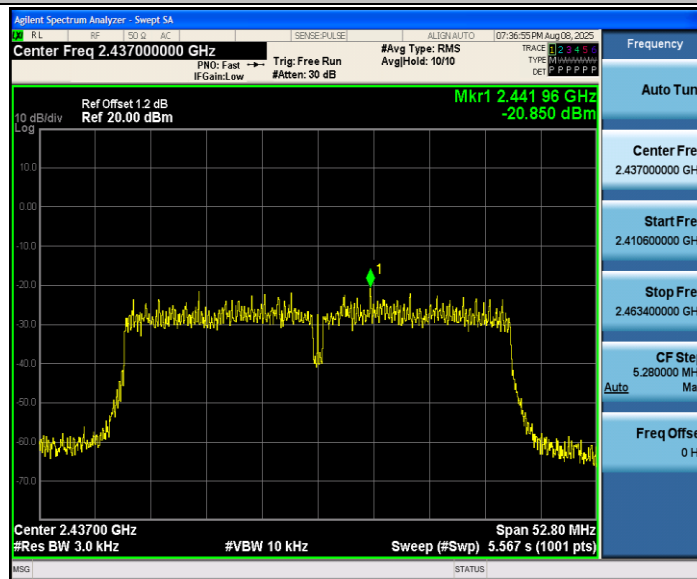
11N20SISO_Ant1_2462



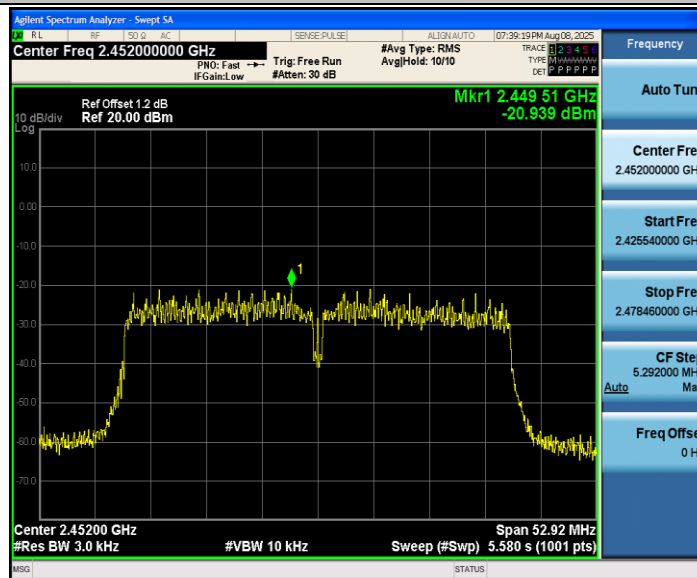
11N40SISO_Ant1_2422



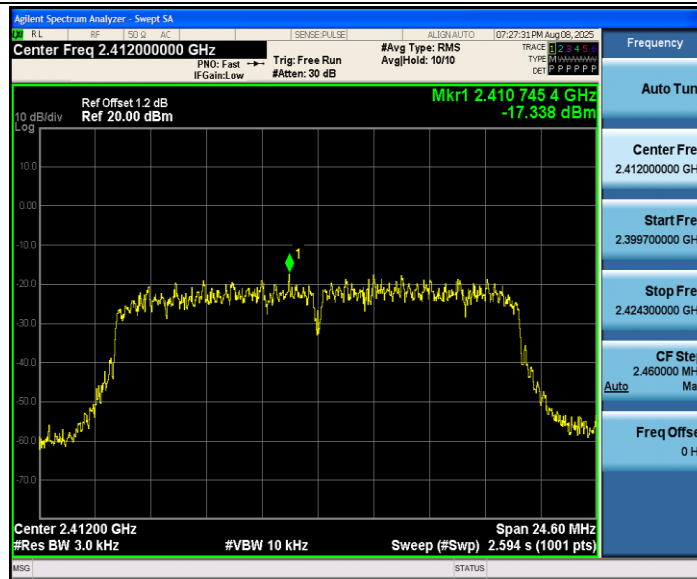
11N40SISO_Ant1_2437



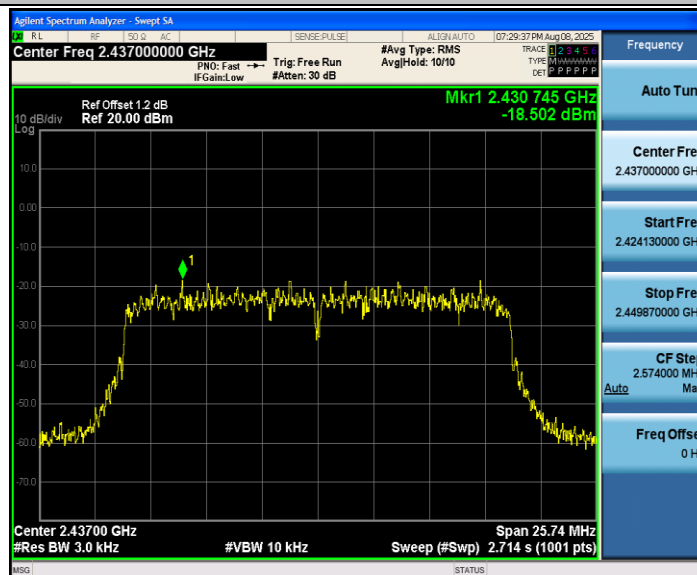
11N40SISO_Ant1_2452



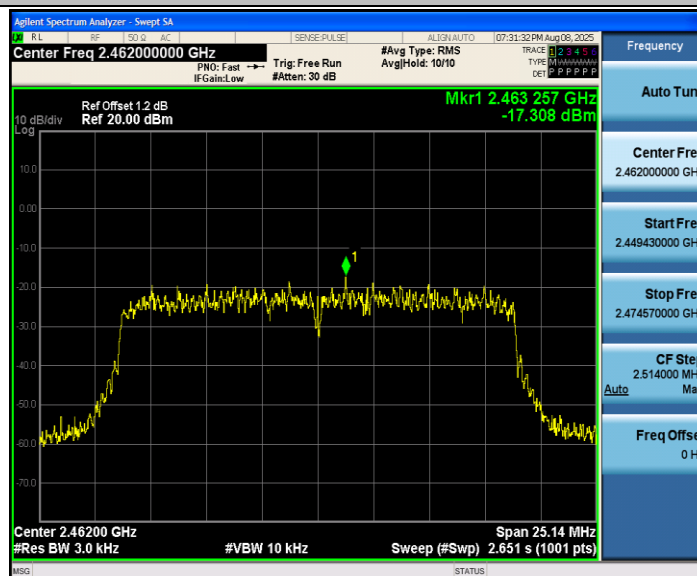
11AX20SISO_Ant1_2412



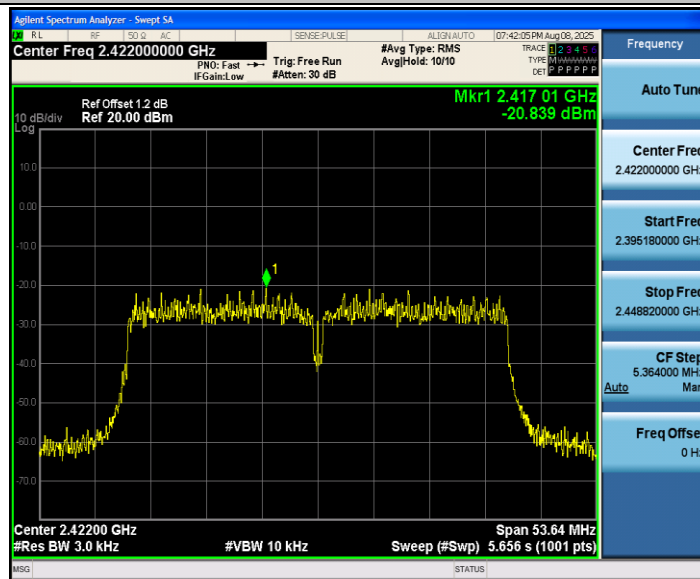
11AX20SISO_Ant1_2437



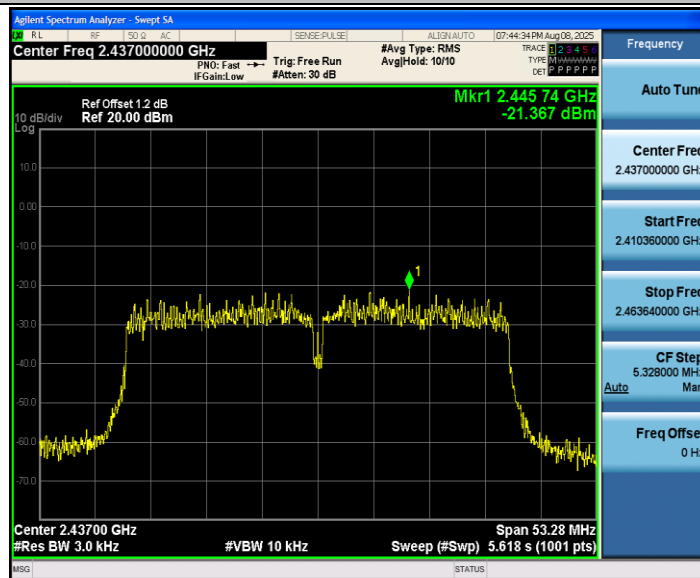
11AX20SISO_Ant1_2462



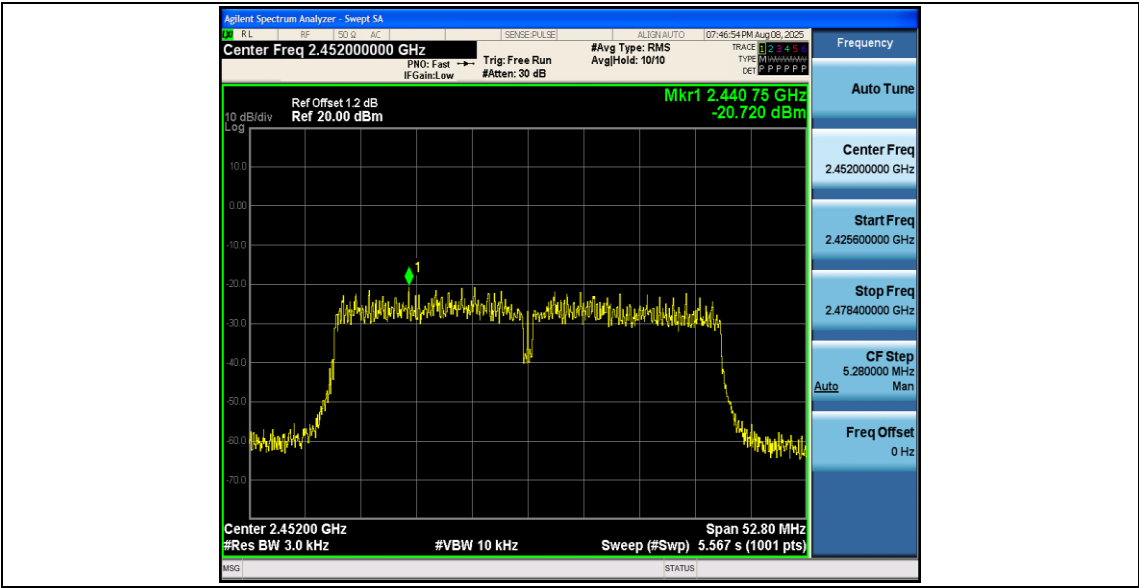
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



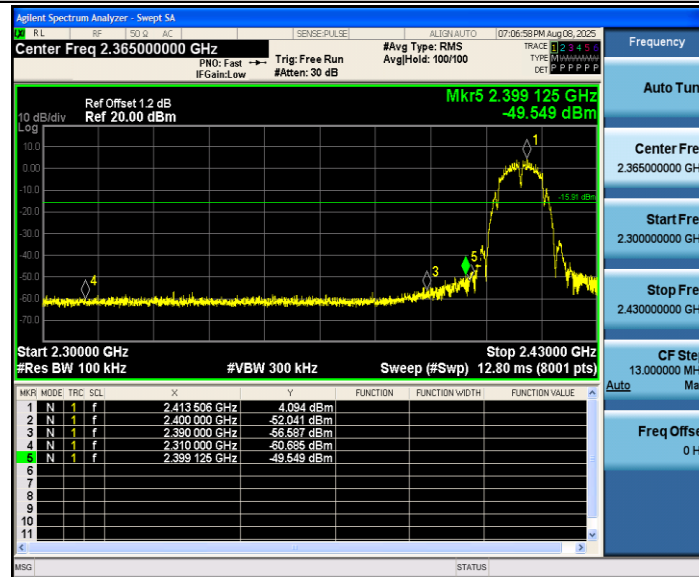
Appendix E: Band edge measurements

Test Result

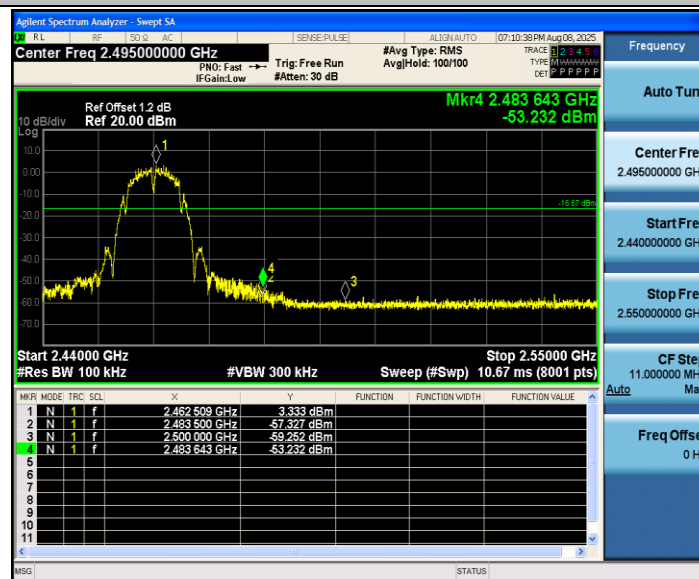
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.09	-49.55	≤-15.91	PASS
		High	2462	3.33	-53.23	≤-16.67	PASS
11G	Ant1	Low	2412	-1.99	-36.6	≤-21.99	PASS
		High	2462	-3.04	-46.03	≤-23.04	PASS
11N20SISO	Ant1	Low	2412	-1.94	-36.84	≤-21.94	PASS
		High	2462	-2.78	-46.32	≤-22.78	PASS
11N40SISO	Ant1	Low	2422	-5.67	-38.35	≤-25.67	PASS
		High	2452	-5.29	-47.1	≤-25.29	PASS
11AX20SISO	Ant1	Low	2412	-1.90	-34.66	≤-21.9	PASS
		High	2462	-3.07	-42.54	≤-23.07	PASS
11AX40SISO	Ant1	Low	2422	-5.72	-38.55	≤-25.72	PASS
		High	2452	-5.26	-47.94	≤-25.26	PASS

Test Graphs

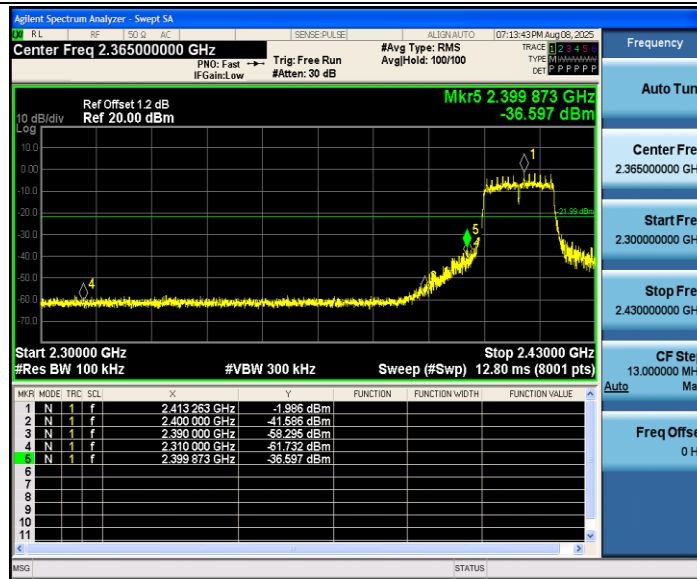
11B_Ant1_Low_2412



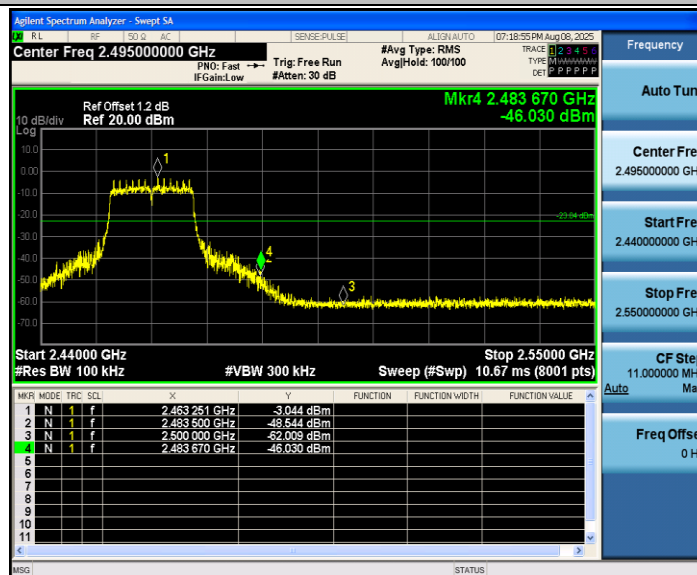
11B_Ant1_High_2462



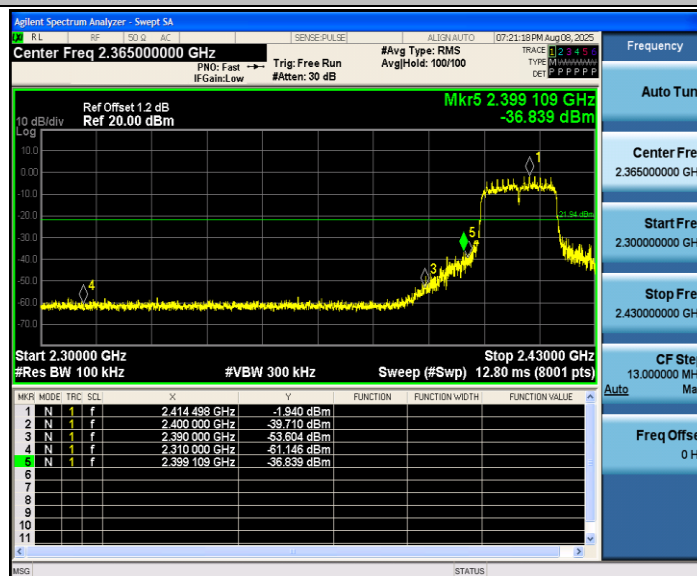
11G_Ant1_Low_2412



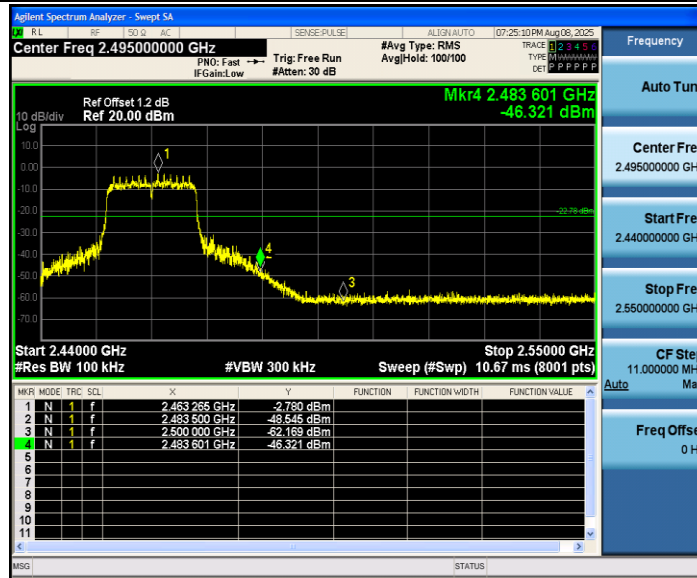
11G_Ant1_High_2462



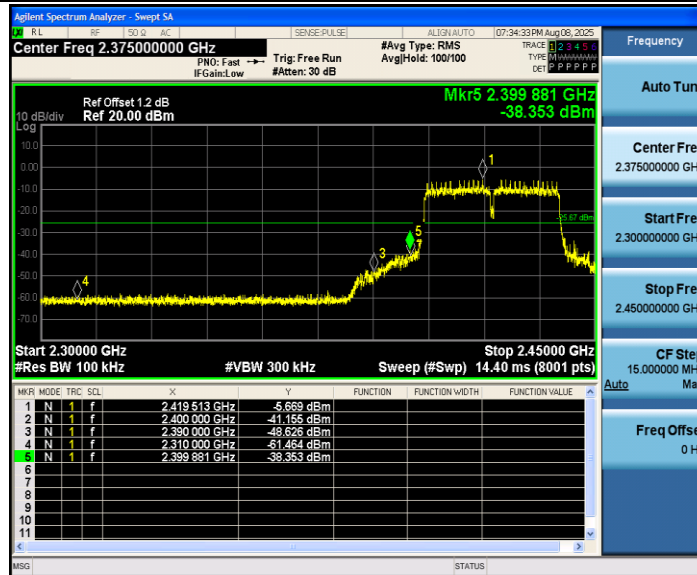
11N20SISO_Ant1_Low_2412



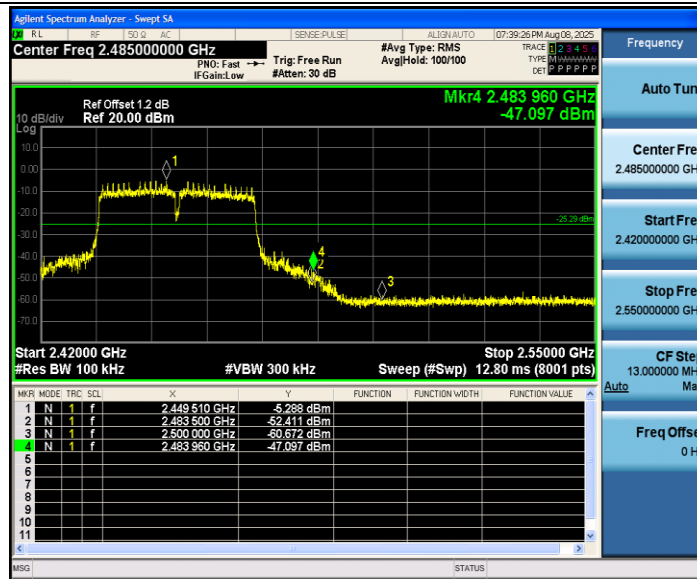
11N20SISO_Ant1_High_2462



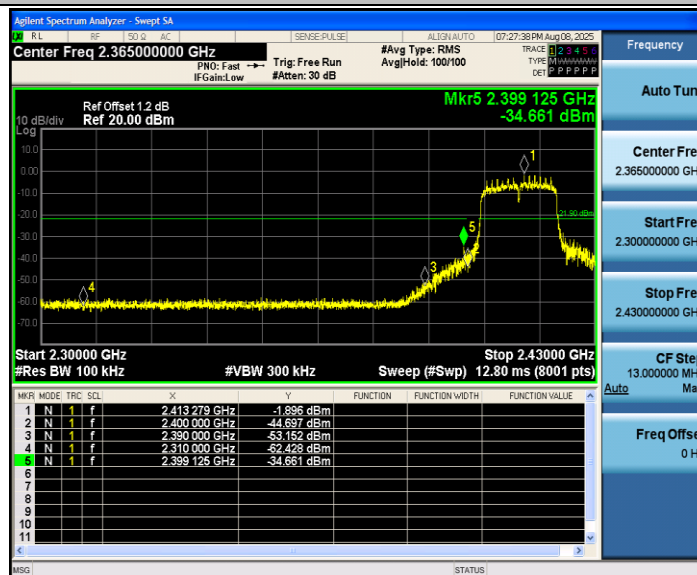
11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



11AX20SISO_Ant1_Low_2412



11AX20SISO_Ant1_High_2462

