

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BAS6-PANDAPWRV2

Company : Shenzhen BIQU Innovation Technology Co., Ltd.

EUT : Panda PWR

Model Number : BIQU Panda PWR V2

Report No. : CTA26050701902

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

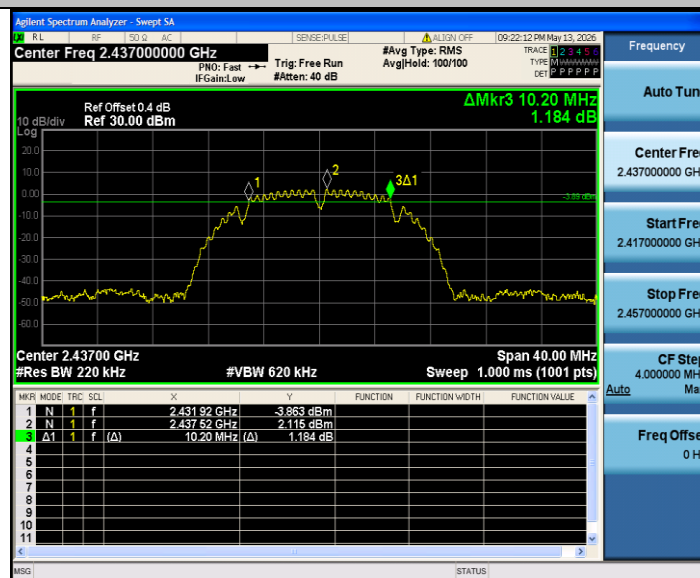
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.920	2417.120	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.280	2404.440	2419.720	0.5	PASS
		2437	15.800	2429.120	2444.920	0.5	PASS
		2462	15.800	2454.120	2469.920	0.5	PASS
11N20SISO	Ant1	2412	16.960	2403.640	2420.600	0.5	PASS
		2437	16.520	2428.480	2445.000	0.5	PASS
		2462	16.800	2453.760	2470.560	0.5	PASS
11N40SISO	Ant1	2422	35.840	2404.160	2440.000	0.5	PASS
		2437	34.400	2420.280	2454.680	0.5	PASS
		2452	35.840	2434.240	2470.080	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



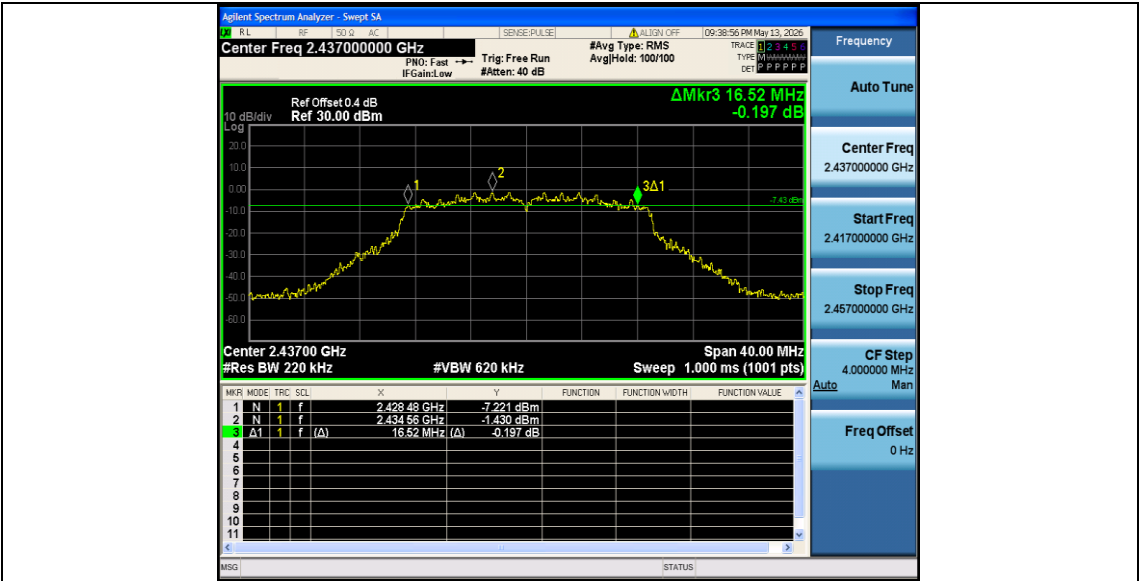
11G_Ant1_2462



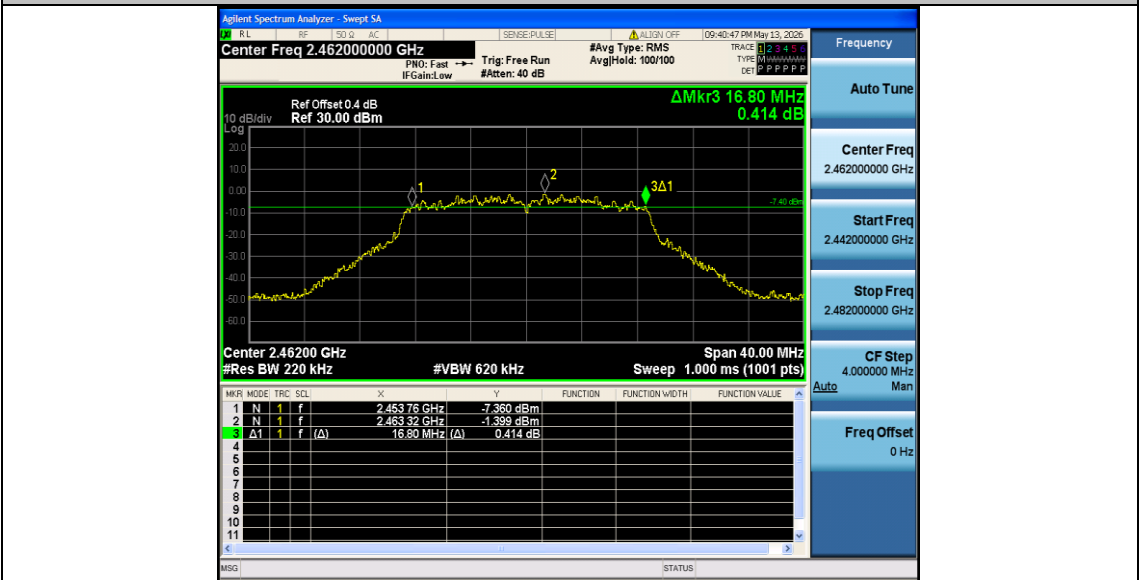
11N20SISO_Ant1_2412



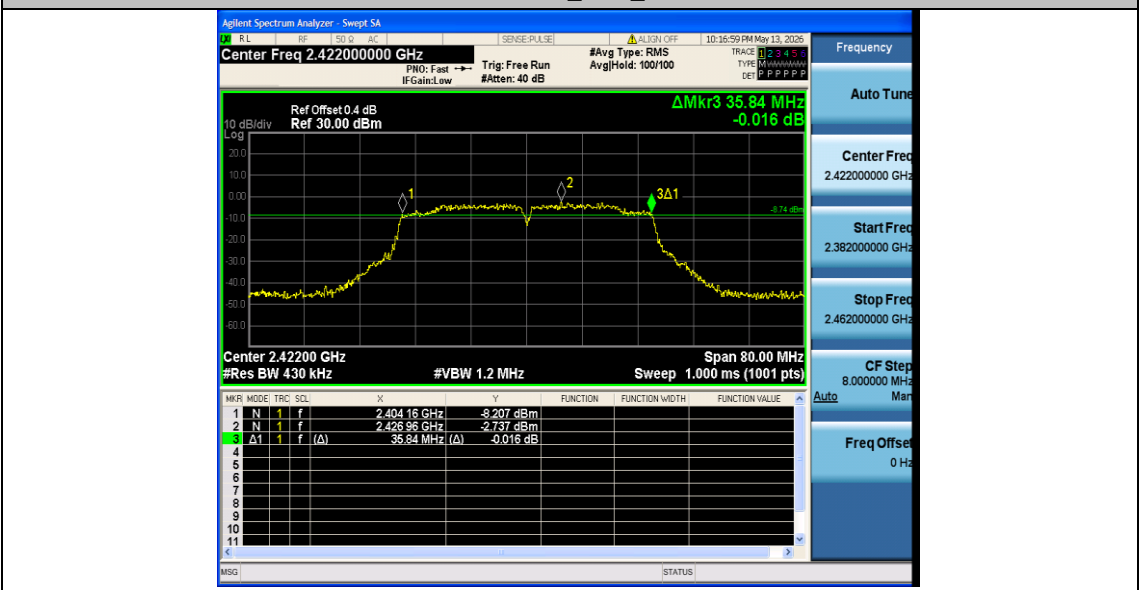
11N20SISO_Ant1_2437



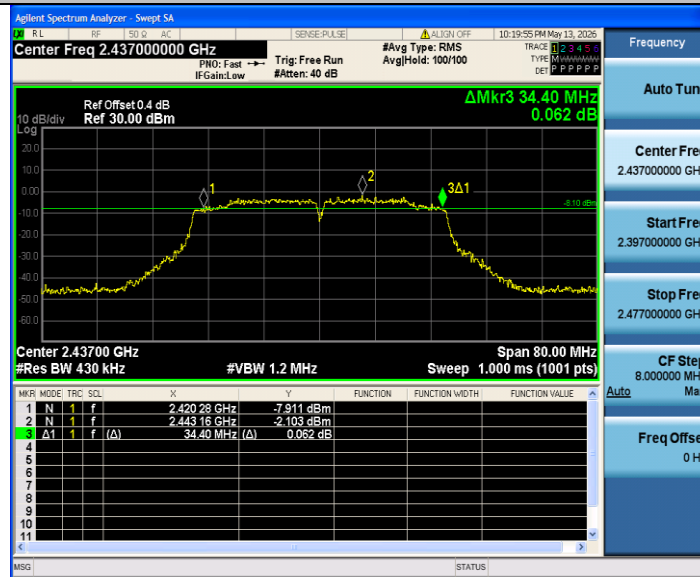
11N20SISO_Ant1_2462



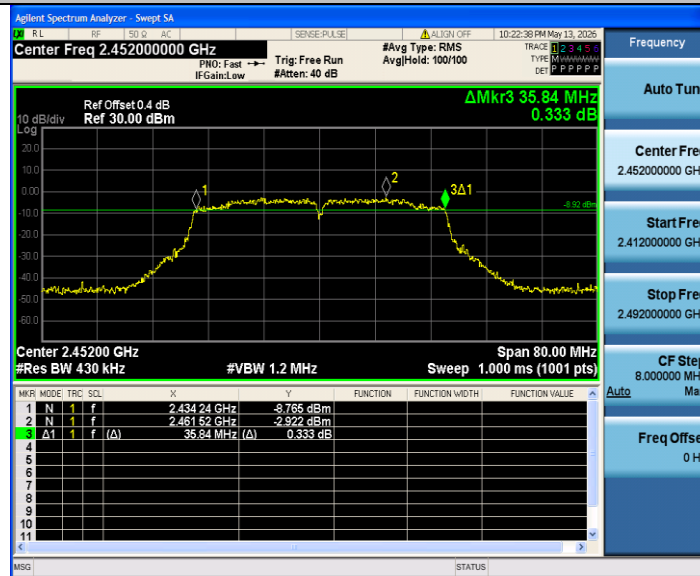
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



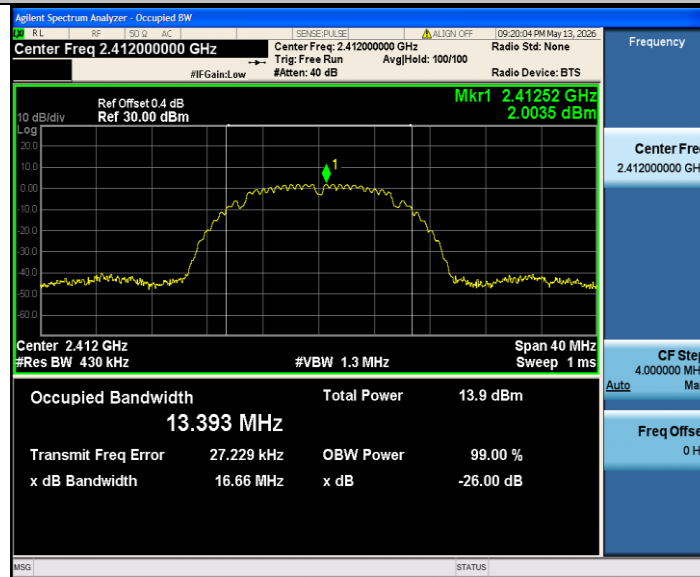
Appendix B: Occupied Channel Bandwidth

Test Result

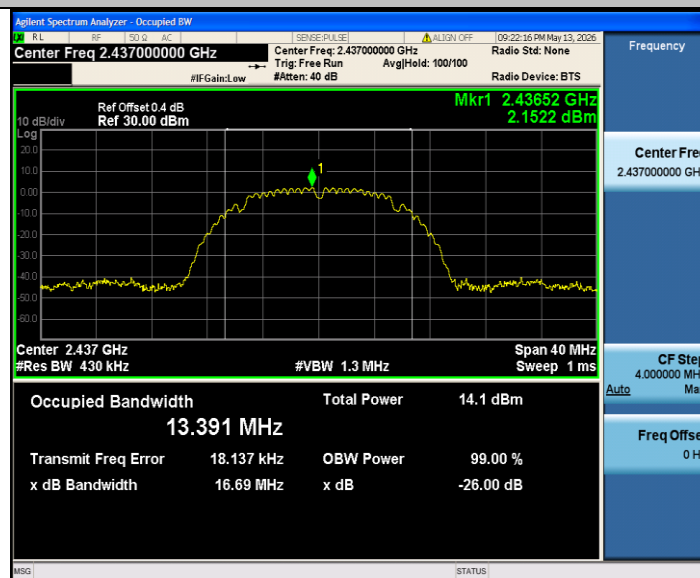
Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.393	2405.3307	2418.7237	---	---
		2437	13.391	2430.3226	2443.7136	---	---
		2462	13.412	2455.3086	2468.7206	---	---
11G	Ant1	2412	16.900	2403.6121	2420.5121	---	---
		2437	16.821	2428.5845	2445.4055	---	---
		2462	16.821	2453.6440	2470.4650	---	---
11N20SISO	Ant1	2412	17.848	2403.1111	2420.9591	---	---
		2437	17.873	2428.0668	2445.9398	---	---
		2462	17.908	2453.0652	2470.9732	---	---
11N40SISO	Ant1	2422	35.984	2404.1183	2440.1023	---	---
		2437	36.056	2419.0645	2455.1205	---	---
		2452	36.044	2434.1116	2470.1556	---	---

Test Graphs

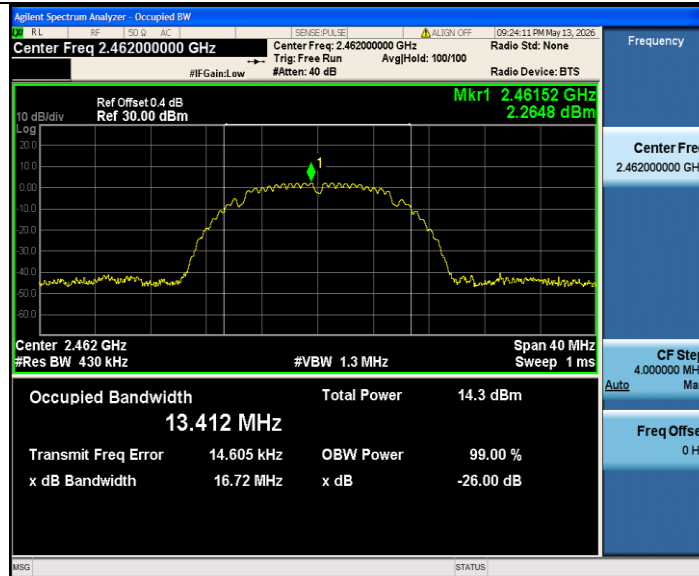
11B_Ant1_2412



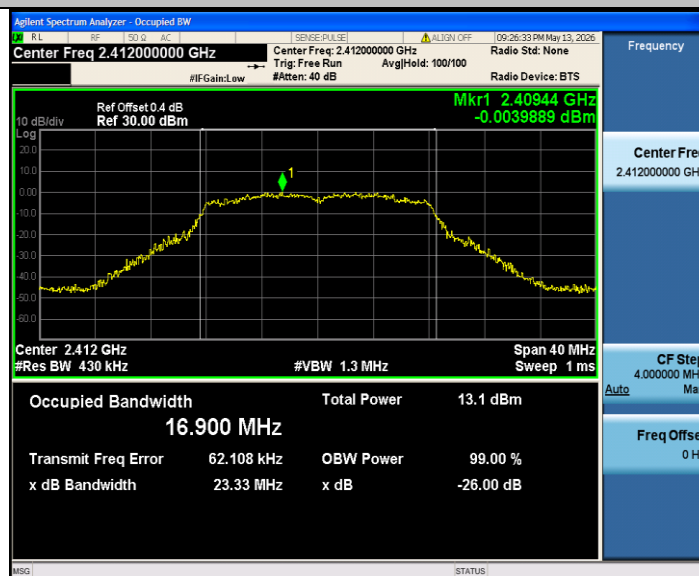
11B_Ant1_2437



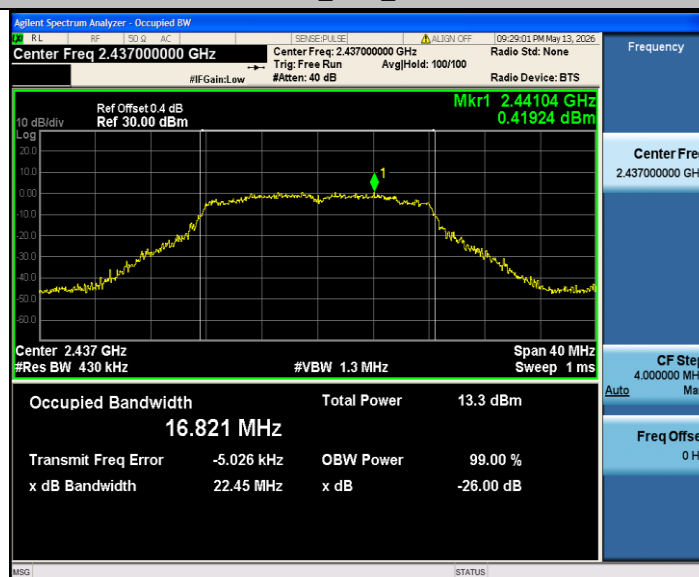
11B_Ant1_2462



11G_Ant1_2412



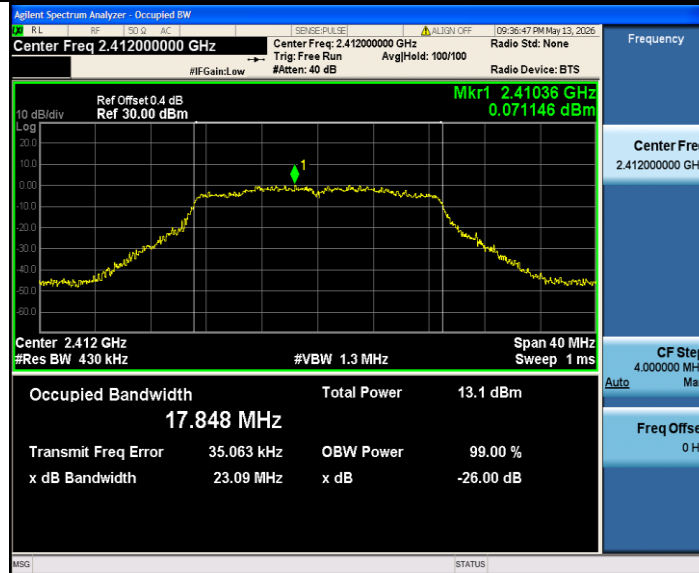
11G_Ant1_2437



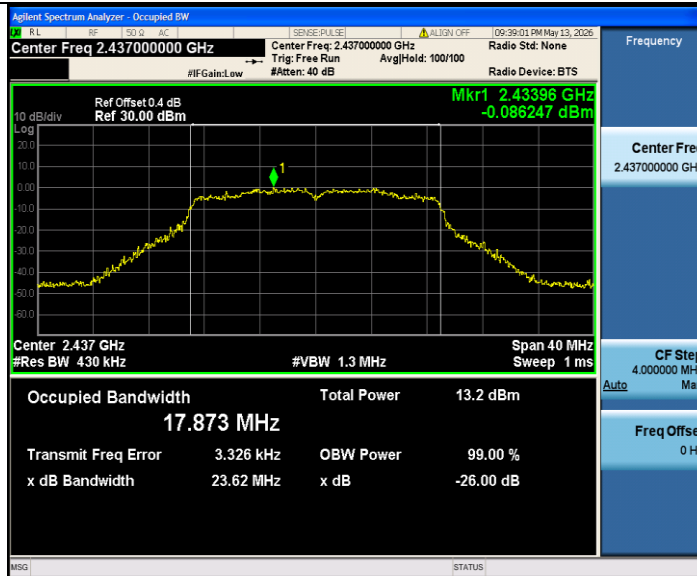
11G_Ant1_2462



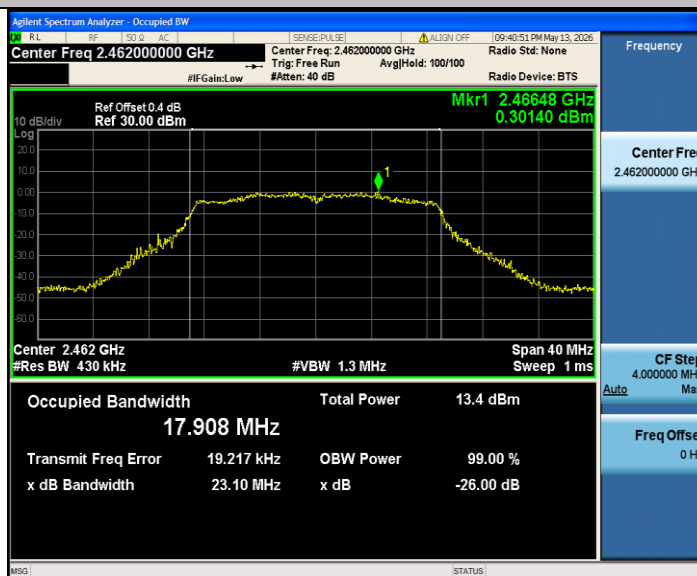
11N20SISO_Ant1_2412



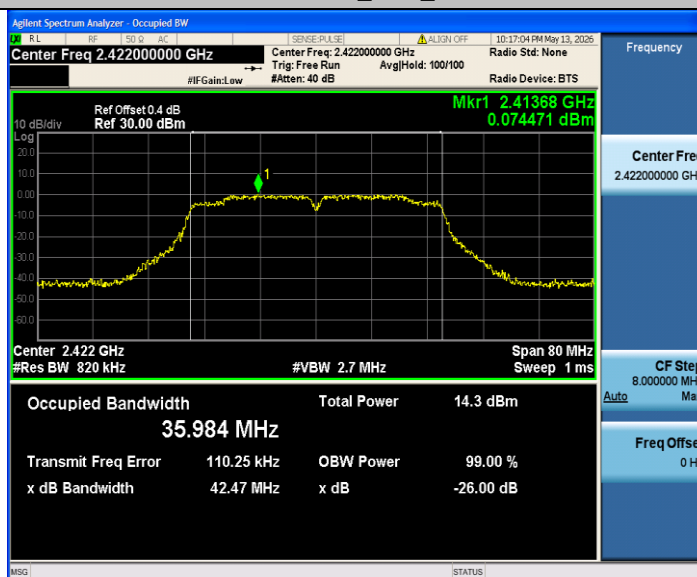
11N20SISO_Ant1_2437



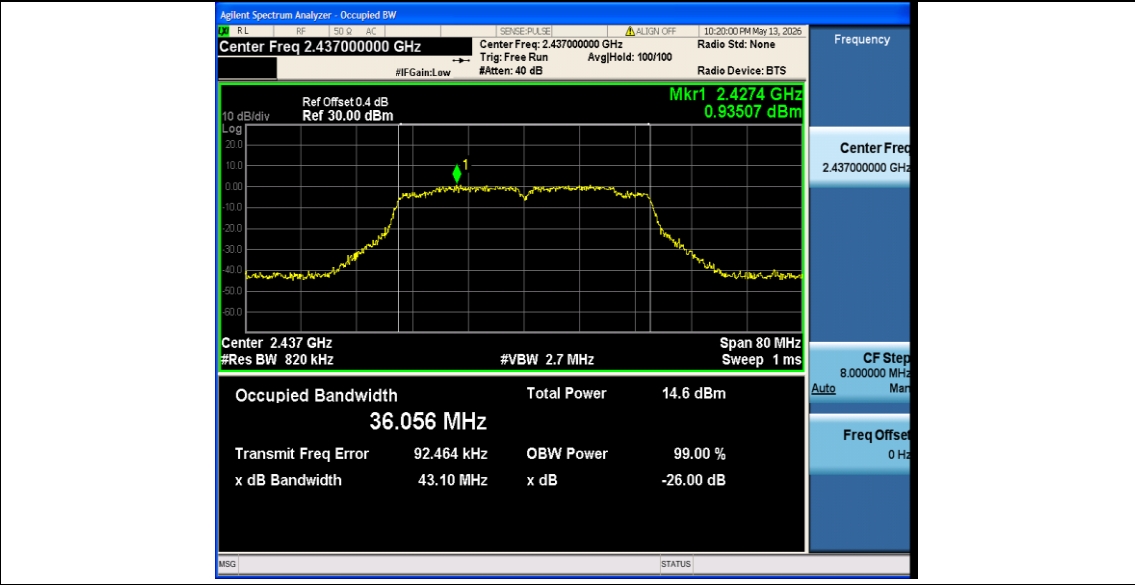
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.55	≤30.00	PASS
		2437	13.78	≤30.00	PASS
		2462	13.82	≤30.00	PASS
11G	Ant1	2412	14.03	≤30.00	PASS
		2437	14.28	≤30.00	PASS
		2462	14.49	≤30.00	PASS
11N20SISO	Ant1	2412	13.91	≤30.00	PASS
		2437	14.10	≤30.00	PASS
		2462	14.22	≤30.00	PASS
11N40SISO	Ant1	2422	14.44	≤30.00	PASS
		2437	14.67	≤30.00	PASS
		2452	14.70	≤30.00	PASS

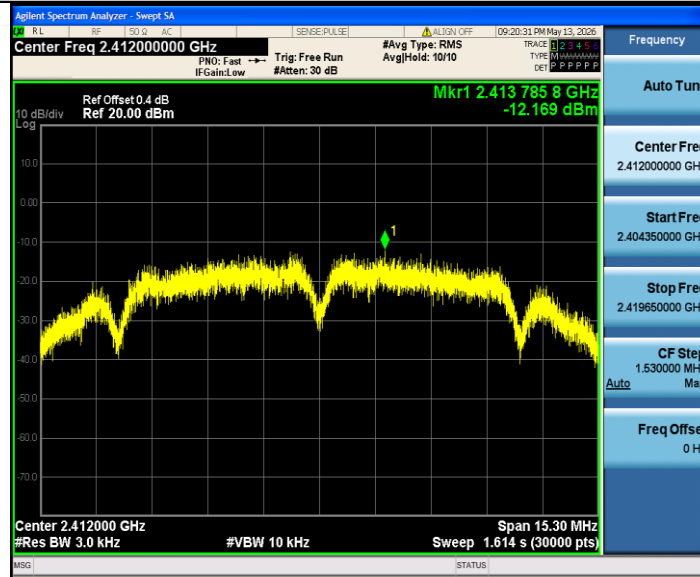
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.17	≤8.00	PASS
		2437	-12.22	≤8.00	PASS
		2462	-12.34	≤8.00	PASS
11G	Ant1	2412	-17.89	≤8.00	PASS
		2437	-18.01	≤8.00	PASS
		2462	-17.87	≤8.00	PASS
11N20SISO	Ant1	2412	-17.12	≤8.00	PASS
		2437	-17.19	≤8.00	PASS
		2462	-17.37	≤8.00	PASS
11N40SISO	Ant1	2422	-19.84	≤8.00	PASS
		2437	-19.75	≤8.00	PASS
		2452	-19.97	≤8.00	PASS

Test Graphs

11B_Ant1_2412



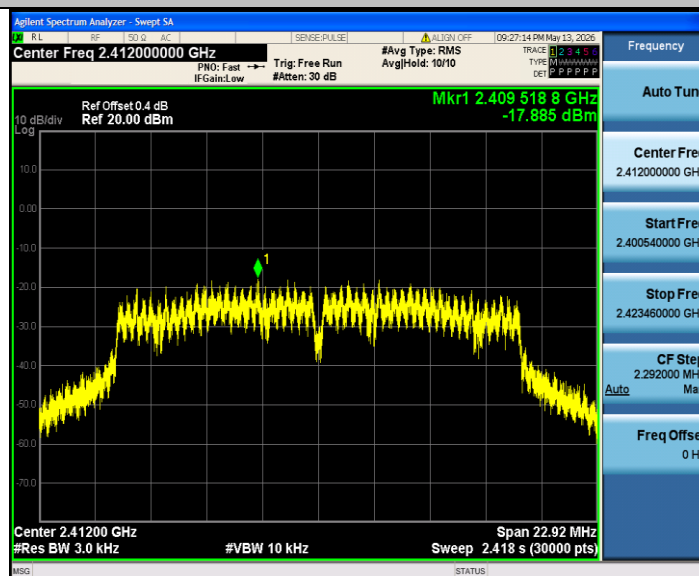
11B_Ant1_2437



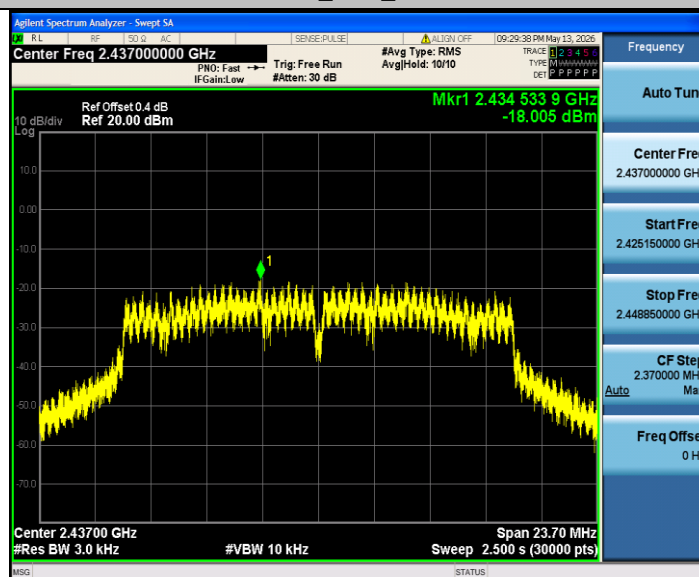
11B_Ant1_2462



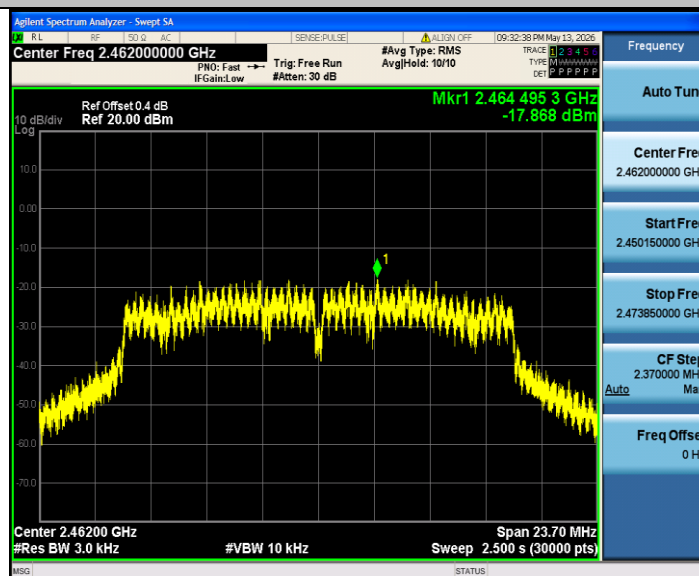
11G_Ant1_2412



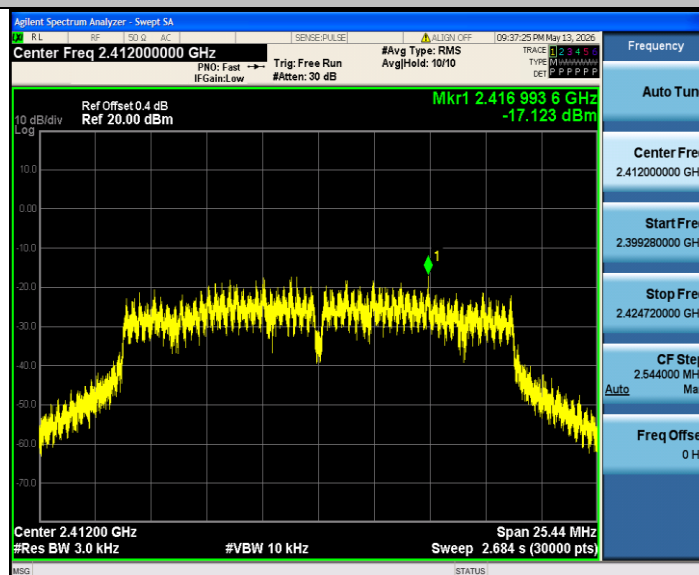
11G_Ant1_2437



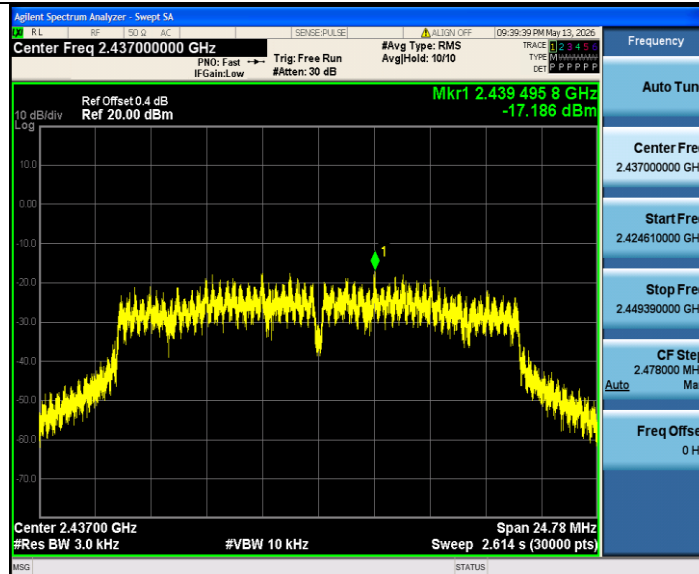
11G_Ant1_2462



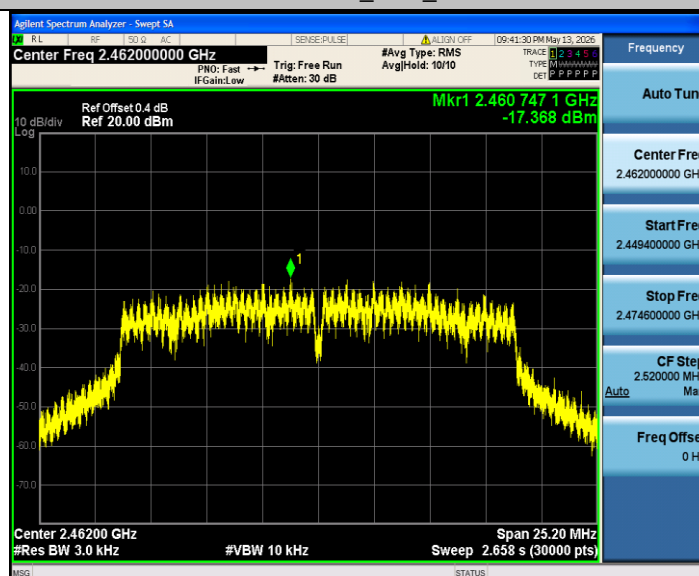
11N20SISO_Ant1_2412



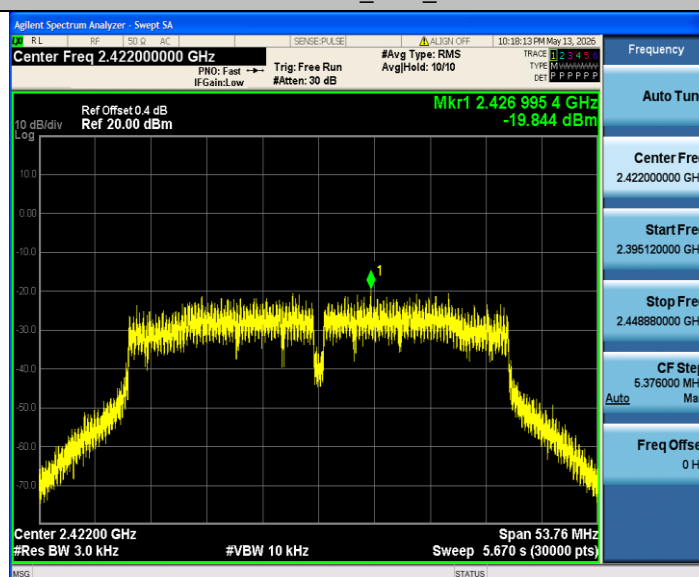
11N20SISO_Ant1_2437



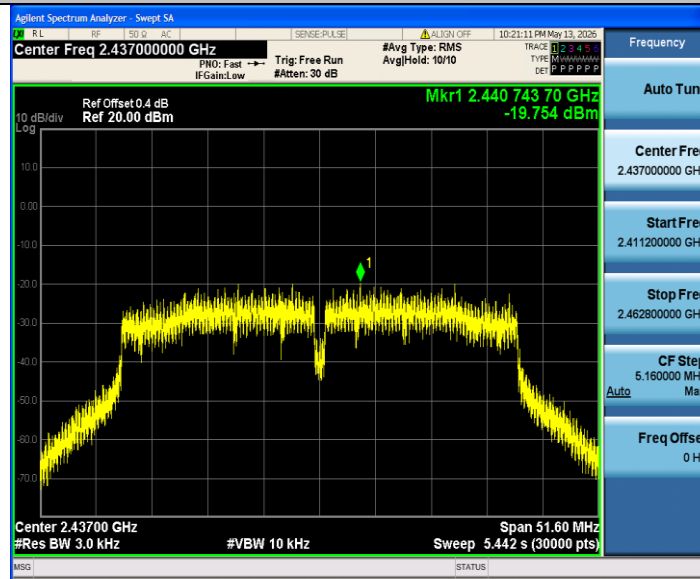
11N20SISO_Ant1_2462



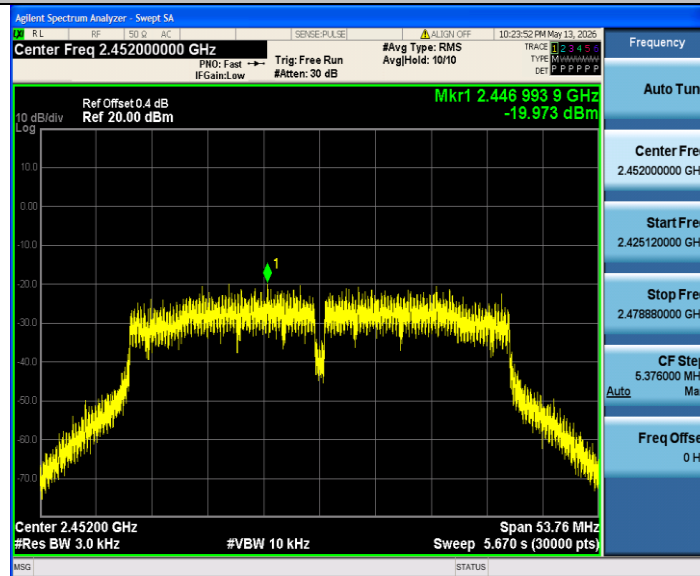
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



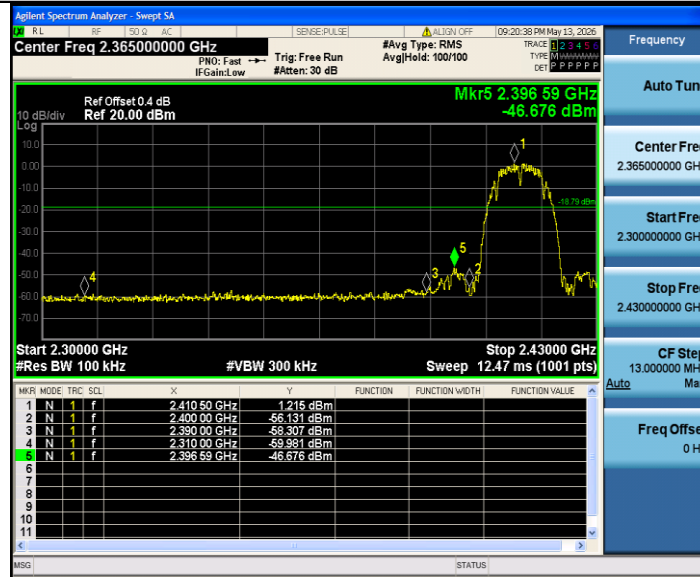
Appendix E: Band edge measurements

Test Result

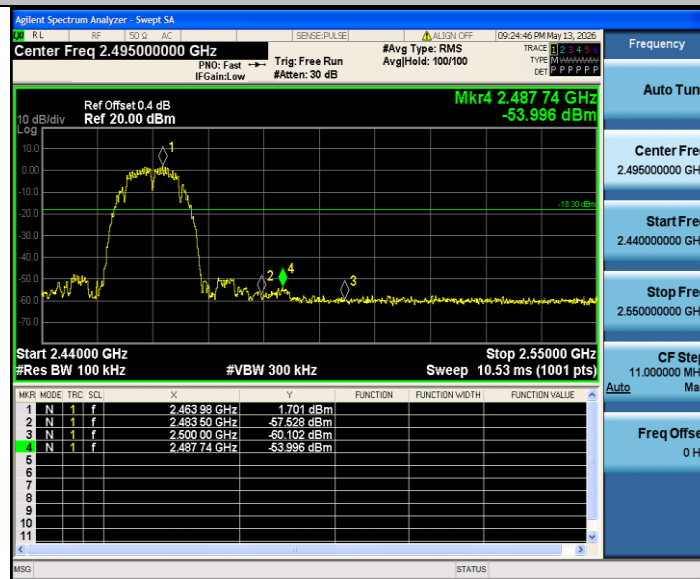
Test Mode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.22	-46.68	≤-18.79	PASS
		High	2462	1.70	-54	≤-18.3	PASS
11G	Ant1	Low	2412	-2.53	-33.06	≤-22.53	PASS
		High	2462	-2.03	-57.81	≤-22.03	PASS
11N20SISO	Ant1	Low	2412	-2.48	-35.37	≤-22.48	PASS
		High	2462	-2.42	-58.11	≤-22.42	PASS
11N40SISO	Ant1	Low	2422	-5.54	-33.62	≤-25.54	PASS
		High	2452	-5.33	-55.85	≤-25.33	PASS

Test Graphs

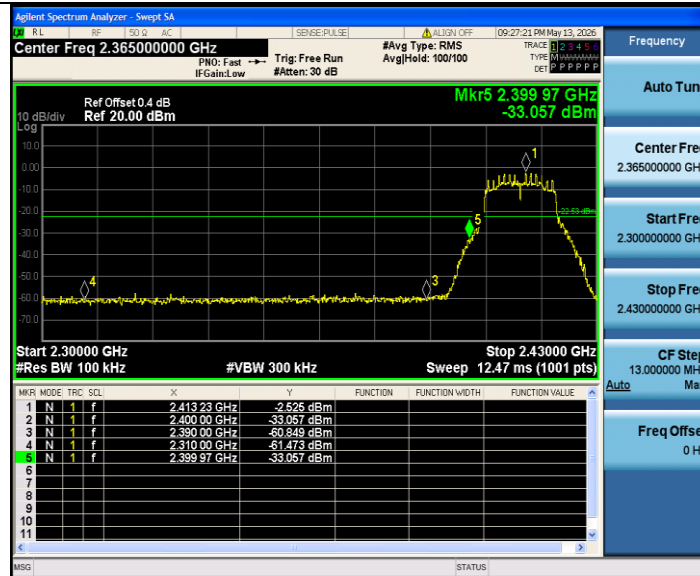
11B_Ant1_Low_2412



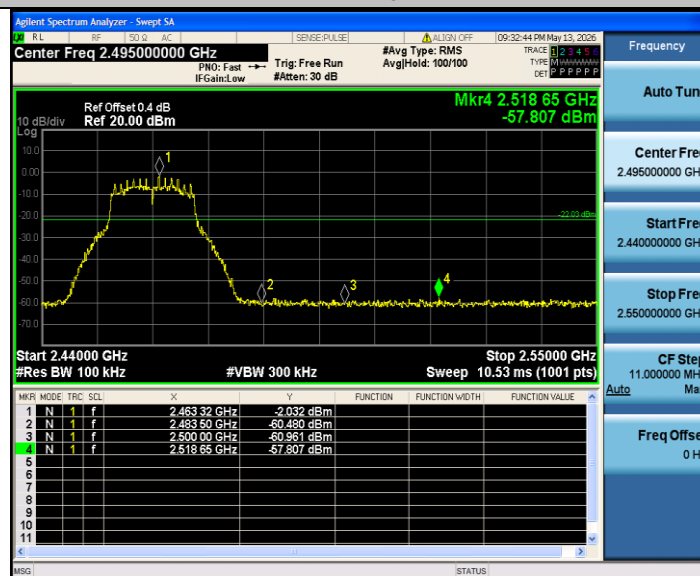
11B_Ant1_High_2462



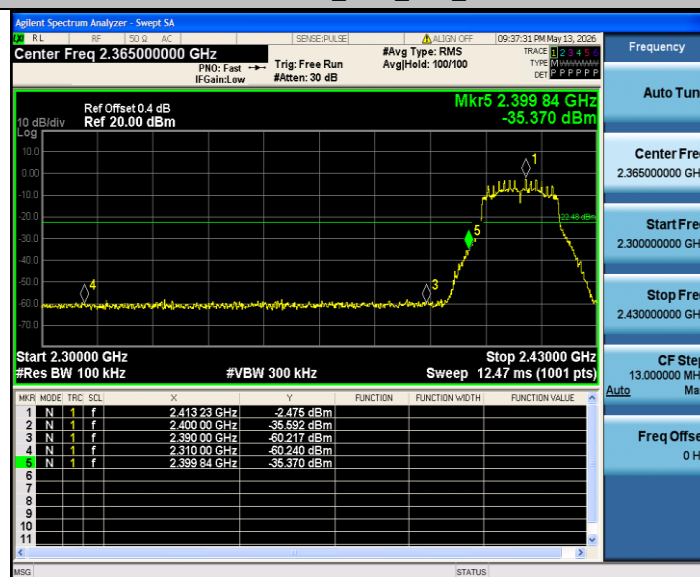
11G_Ant1_Low_2412



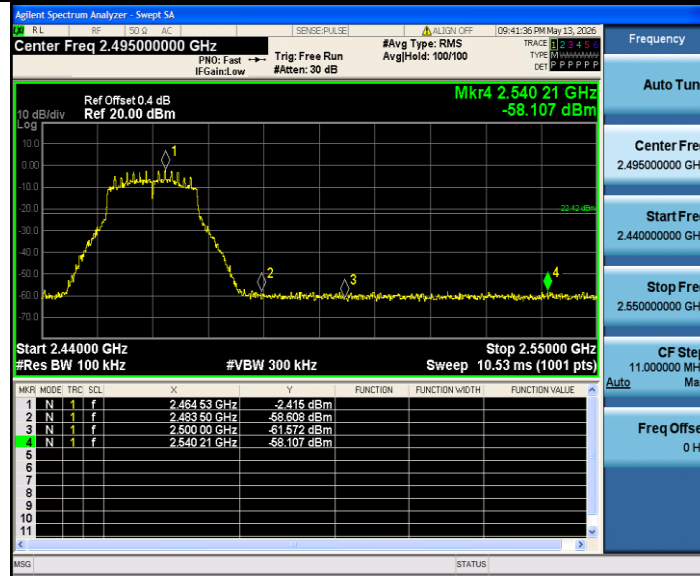
11G_Ant1_High_2462



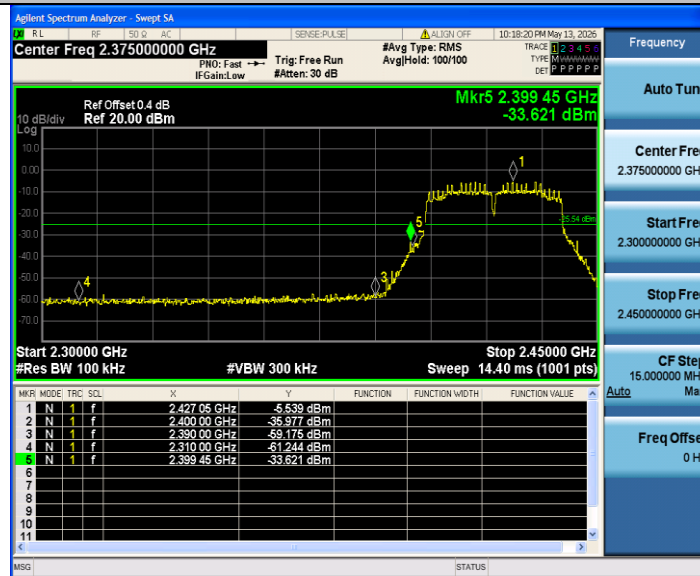
11N20SISO_Ant1_Low_2412



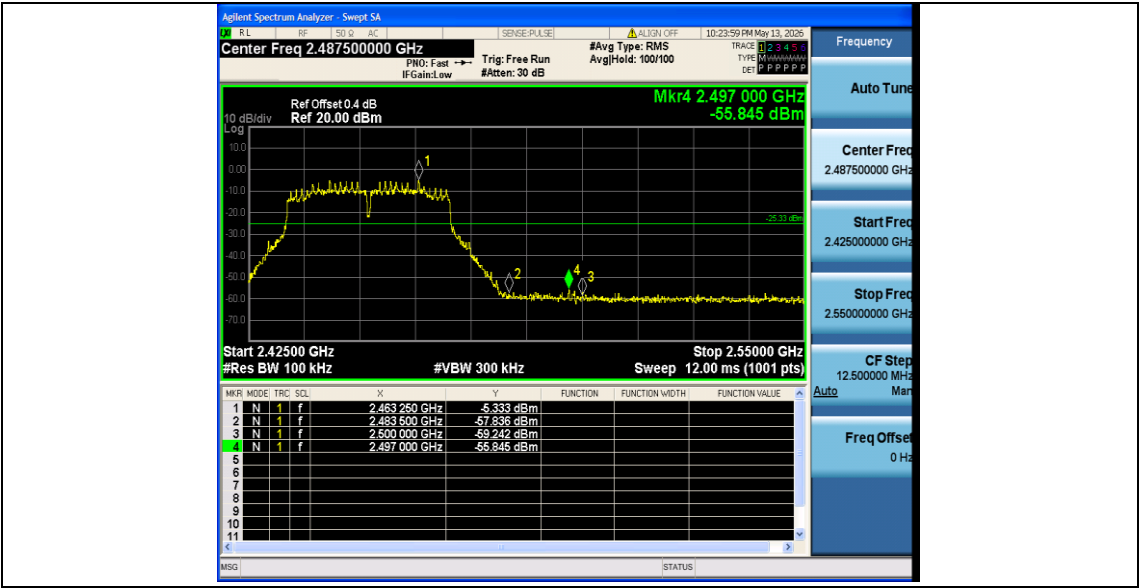
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

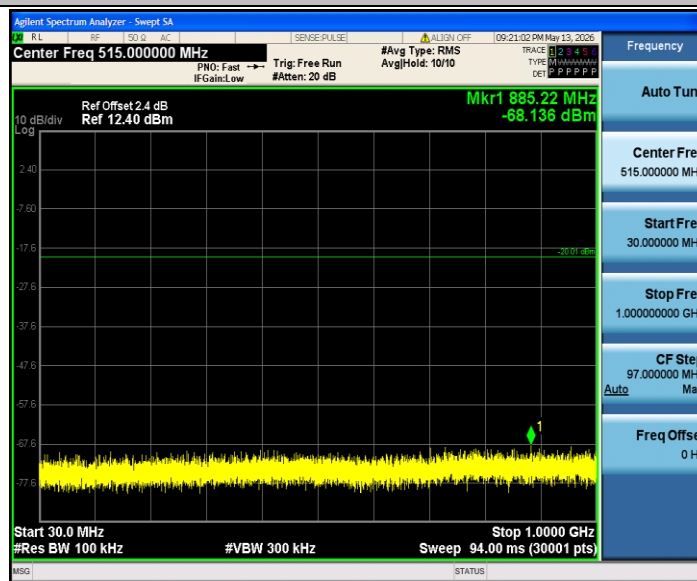
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.01	-0.01	---	PASS
			30~1000	-0.01	-68.14	≤-20.01	PASS
			1000~26500	-0.01	-55.12	≤-20.01	PASS
		2437	Reference	1.42	1.42	---	PASS
			30~1000	1.42	-67.8	≤-18.58	PASS
			1000~26500	1.42	-54.9	≤-18.58	PASS
		2462	Reference	1.54	1.54	---	PASS
			30~1000	1.54	-67.88	≤-18.46	PASS
			1000~26500	1.54	-55.63	≤-18.46	PASS
11G	Ant1	2412	Reference	-3.32	-3.32	---	PASS
			30~1000	-3.32	-68.08	≤-23.32	PASS
			1000~26500	-3.32	-56.07	≤-23.32	PASS
		2437	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-67.6	≤-22.77	PASS
			1000~26500	-2.77	-55.28	≤-22.77	PASS
		2462	Reference	-3.48	-3.48	---	PASS
			30~1000	-3.48	-68.2	≤-23.48	PASS
			1000~26500	-3.48	-55.86	≤-23.48	PASS
11N20SISO	Ant1	2412	Reference	-2.94	-2.94	---	PASS
			30~1000	-2.94	-68.16	≤-22.94	PASS
			1000~26500	-2.94	-55.85	≤-22.94	PASS
		2437	Reference	-2.24	-2.24	---	PASS
			30~1000	-2.24	-67.46	≤-22.24	PASS
			1000~26500	-2.24	-55.99	≤-22.24	PASS
		2462	Reference	-2.15	-2.15	---	PASS
			30~1000	-2.15	-67.03	≤-22.15	PASS
			1000~26500	-2.15	-55.78	≤-22.15	PASS
11N40SISO	Ant1	2422	Reference	-5.67	-5.67	---	PASS
			30~1000	-5.67	-68.78	≤-25.67	PASS
			1000~26500	-5.67	-55.47	≤-25.67	PASS
		2437	Reference	-5.34	-5.34	---	PASS
			30~1000	-5.34	-67.42	≤-25.34	PASS
			1000~26500	-5.34	-55.8	≤-25.34	PASS
		2452	Reference	-5.85	-5.85	---	PASS
			30~1000	-5.85	-66.92	≤-25.85	PASS
			1000~26500	-5.85	-56.16	≤-25.85	PASS

Test Graphs

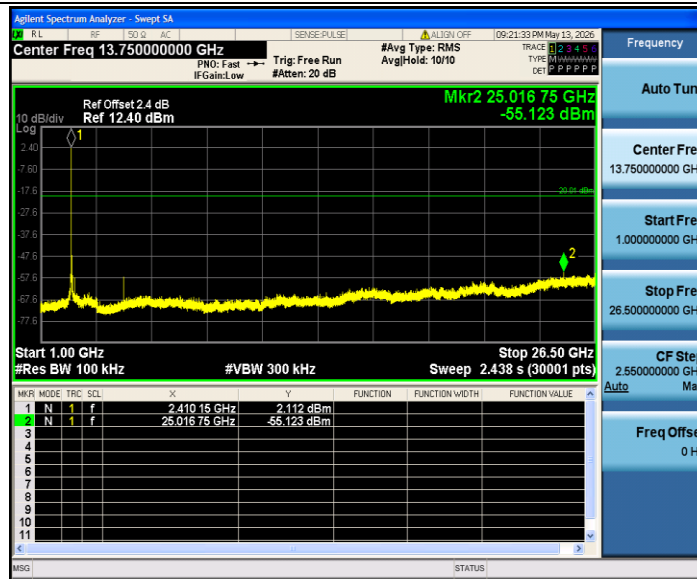
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



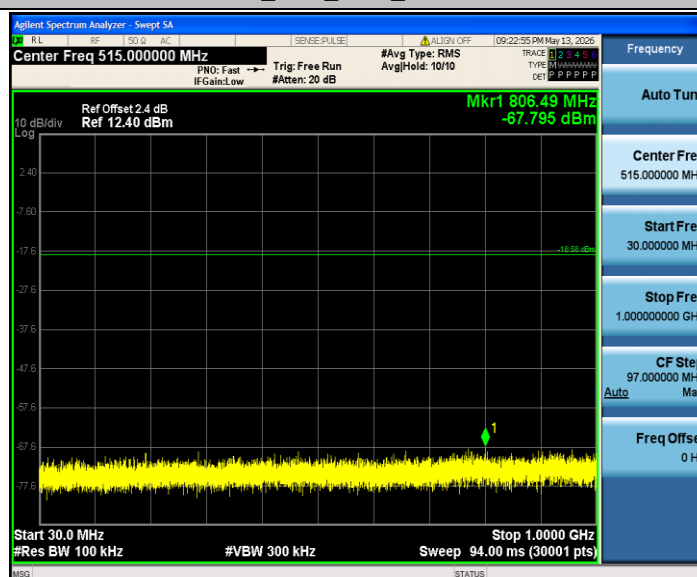
11B_Ant1_2412_1000~26500



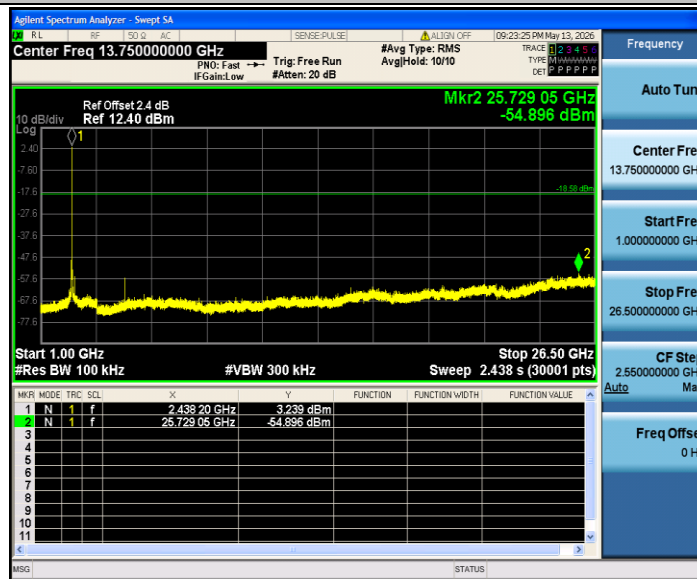
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



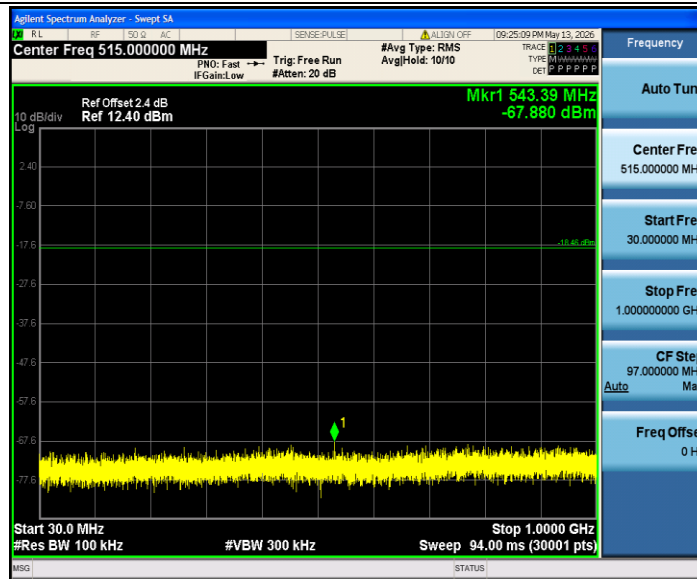
11B_Ant1_2437_1000~26500



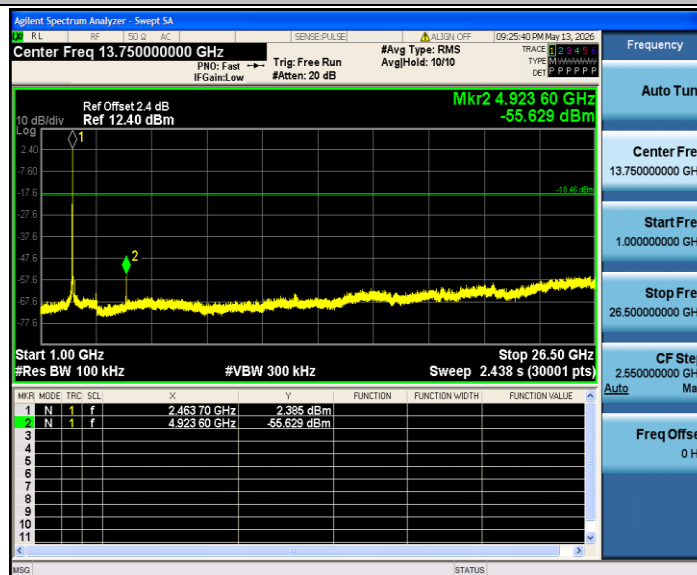
11B_Ant1_2462_0~Reference



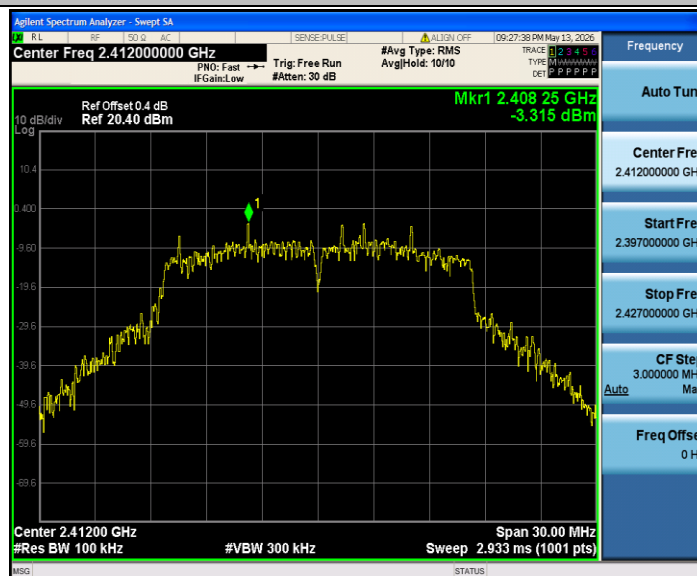
11B_Ant1_2462_30~1000



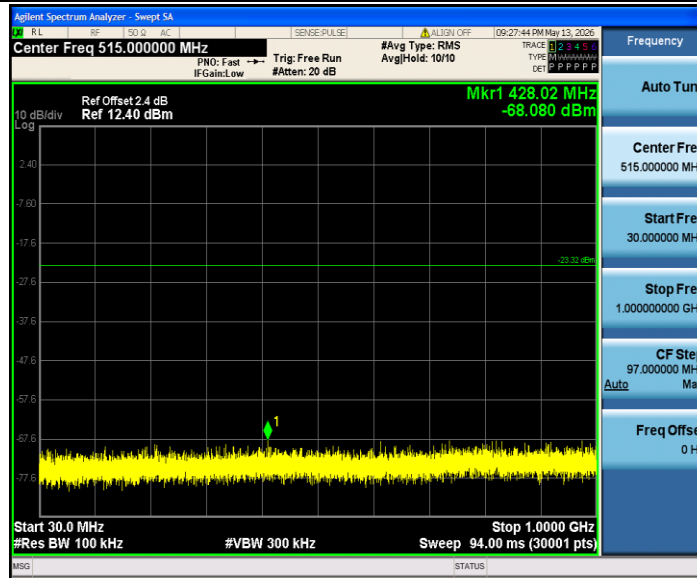
11B_Ant1_2462_1000~26500



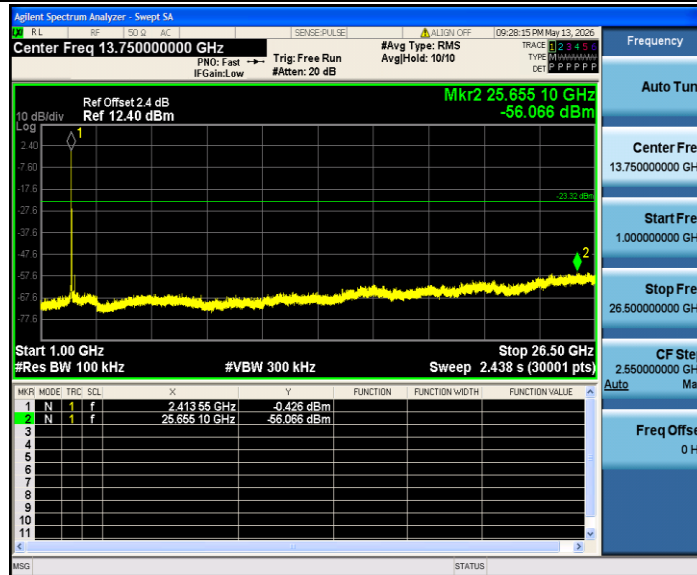
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



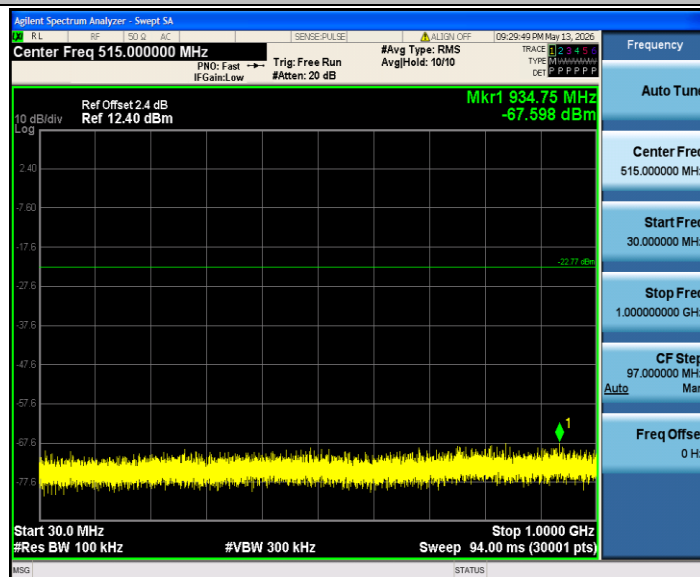
11G_Ant1_2412_1000~26500



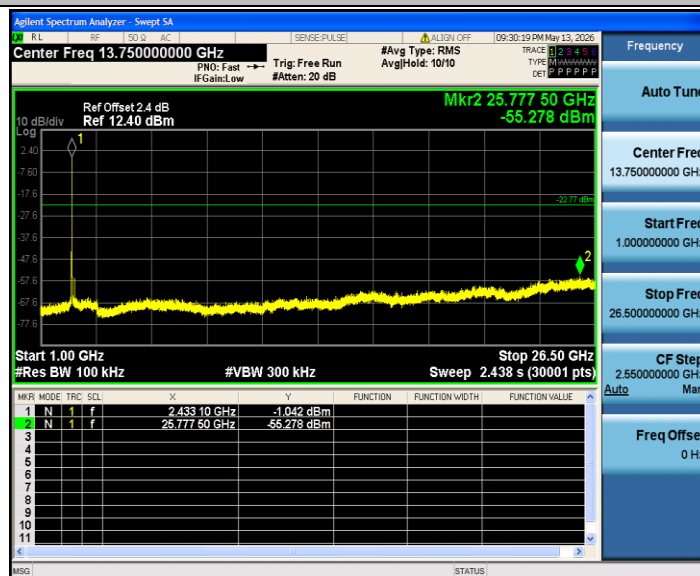
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



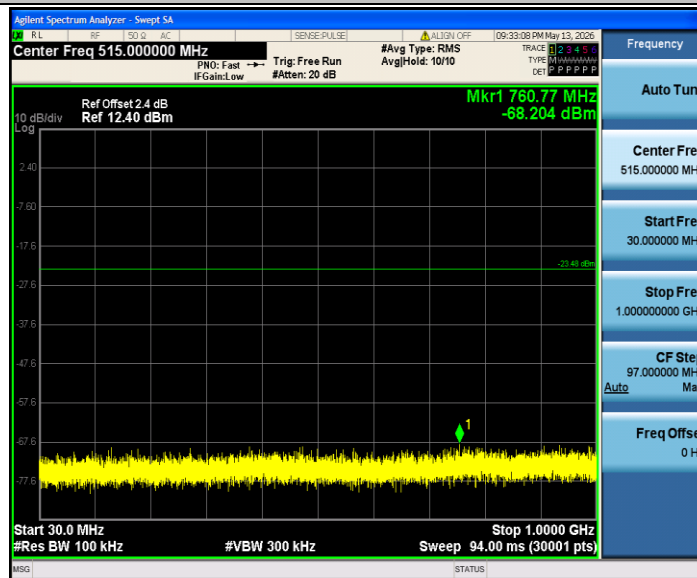
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500