

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : **2BW6N-BODY320**

Company : **Henan Wanhui Sida Import and Export Trading Co., Ltd**

EUT : **Body320 Body Analyzer**

Model Number : **body320**

Report No. : **CTA26062602001**

Reviewed By : **Eric Wang**

Appendix A: DTS Bandwidth

Test Result

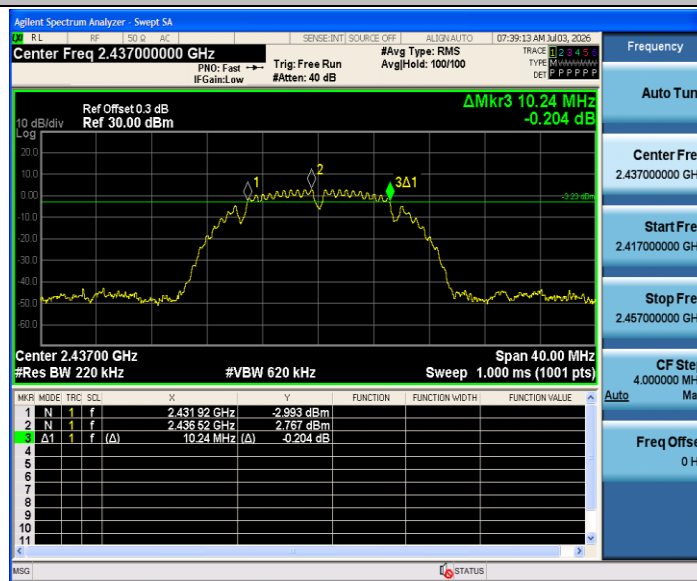
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.920	2417.120	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	16.000	2403.920	2419.920	0.5	PASS
		2437	15.920	2428.920	2444.840	0.5	PASS
		2462	15.880	2454.000	2469.880	0.5	PASS
11N20SISO	Ant1	2412	16.320	2404.080	2420.400	0.5	PASS
		2437	15.440	2429.320	2444.760	0.5	PASS
		2462	16.920	2453.560	2470.480	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.320	2440.000	0.5	PASS
		2437	36.000	2419.080	2455.080	0.5	PASS
		2452	35.440	2434.560	2470.000	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



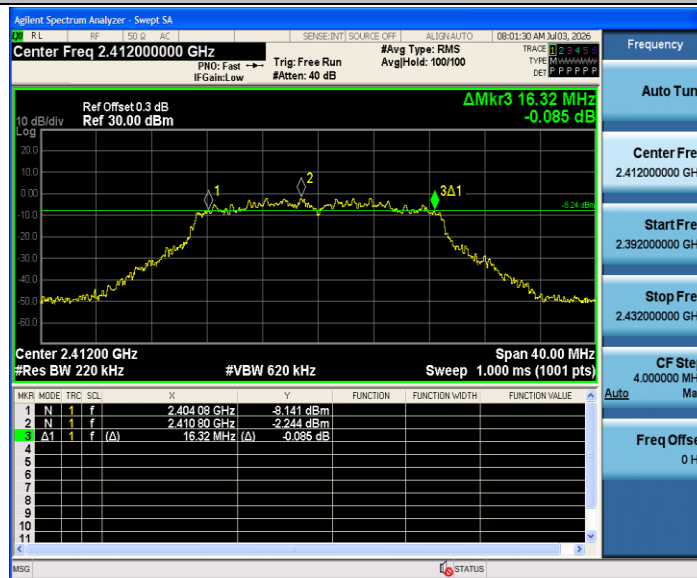
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



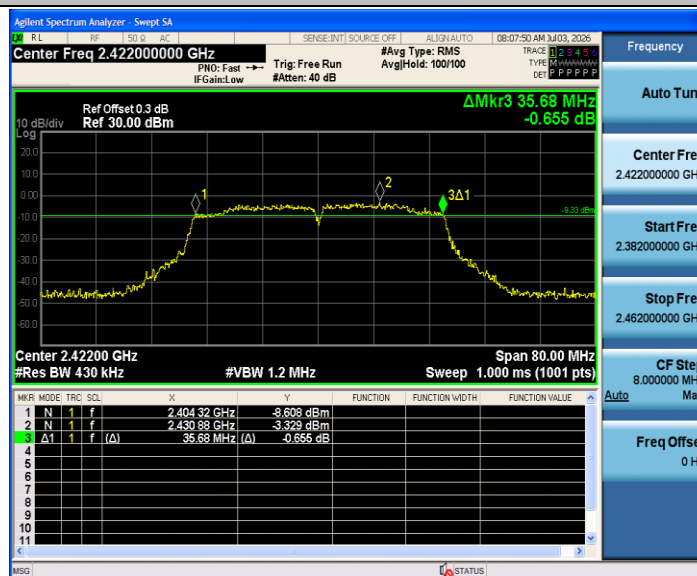
11N20SISO_Ant1_2437



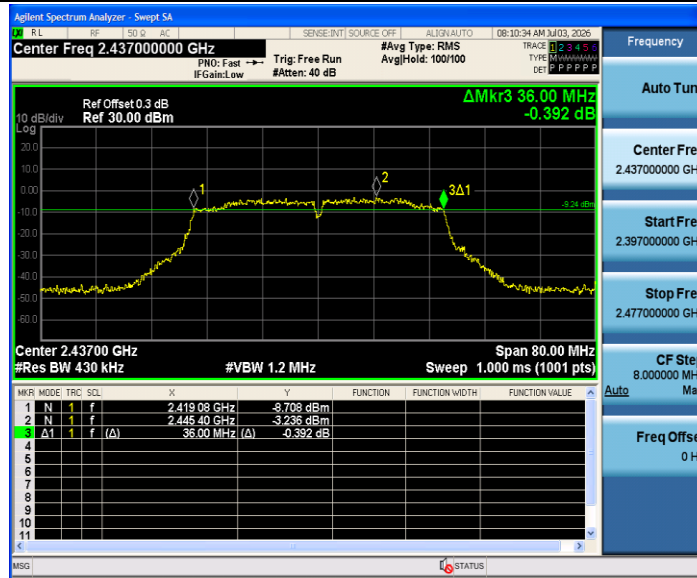
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



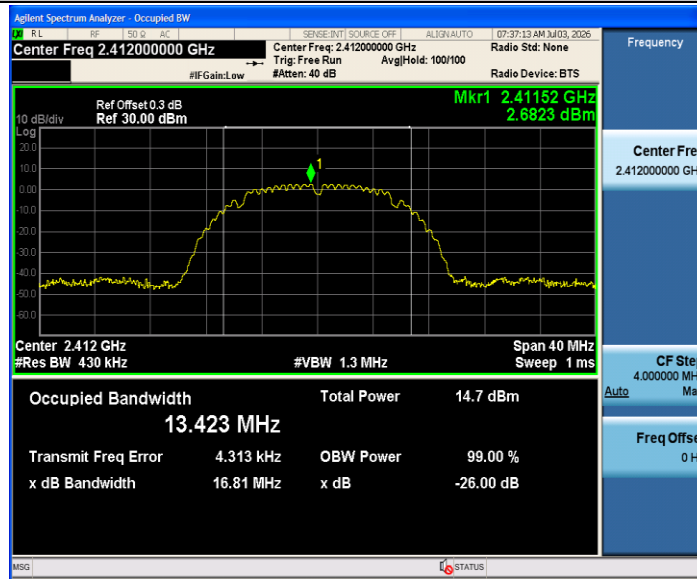
Appendix B: Occupied Channel Bandwidth

Test Result

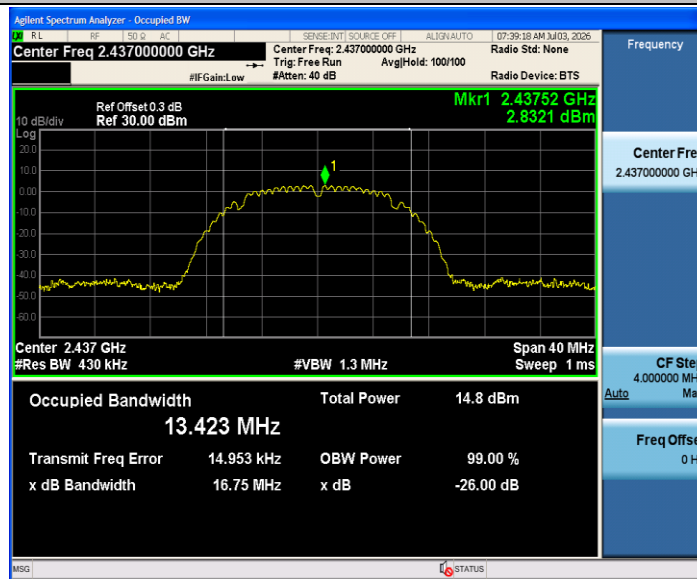
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.423	2405.2928	2418.7158	---	---
		2437	13.423	2430.3035	2443.7265	---	---
		2462	13.423	2455.3097	2468.7327	---	---
11G	Ant1	2412	16.784	2403.6600	2420.4440	---	---
		2437	16.812	2428.6363	2445.4483	---	---
		2462	16.841	2453.6205	2470.4615	---	---
11N20SISO	Ant1	2412	17.873	2403.0681	2420.9411	---	---
		2437	17.846	2428.0987	2445.9447	---	---
		2462	17.858	2453.0813	2470.9393	---	---
11N40SISO	Ant1	2422	36.030	2404.1492	2440.1792	---	---
		2437	36.012	2419.1237	2455.1357	---	---
		2452	36.002	2434.1614	2470.1634	---	---

Test Graphs

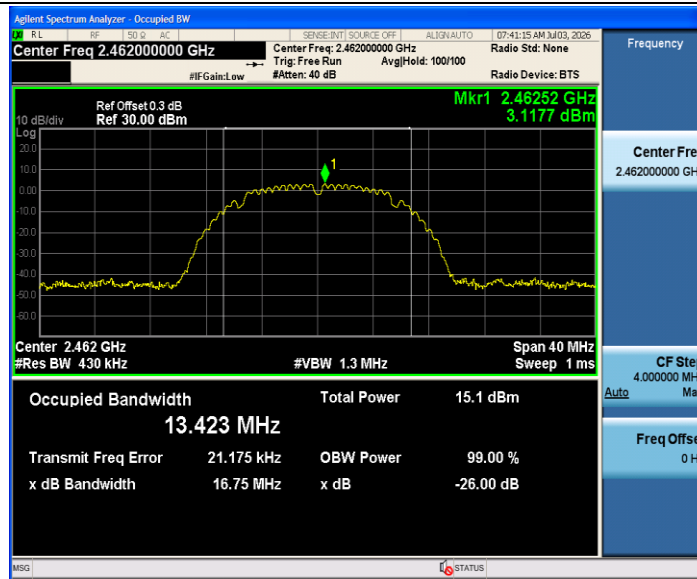
11B_Ant1_2412



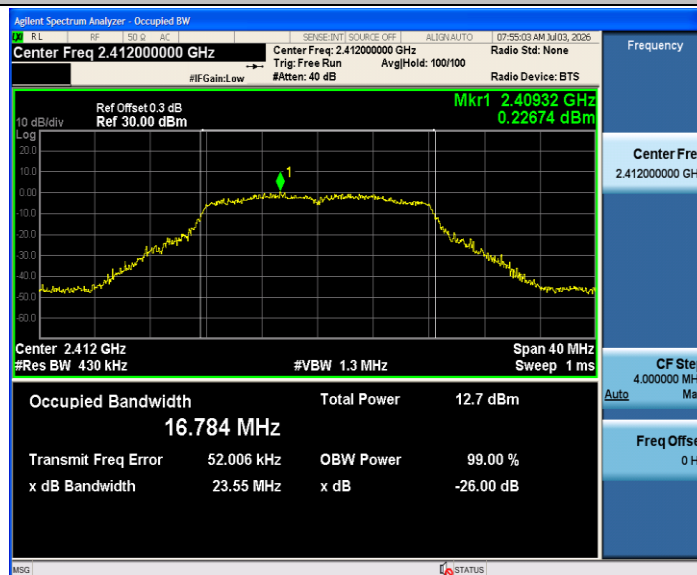
11B_Ant1_2437



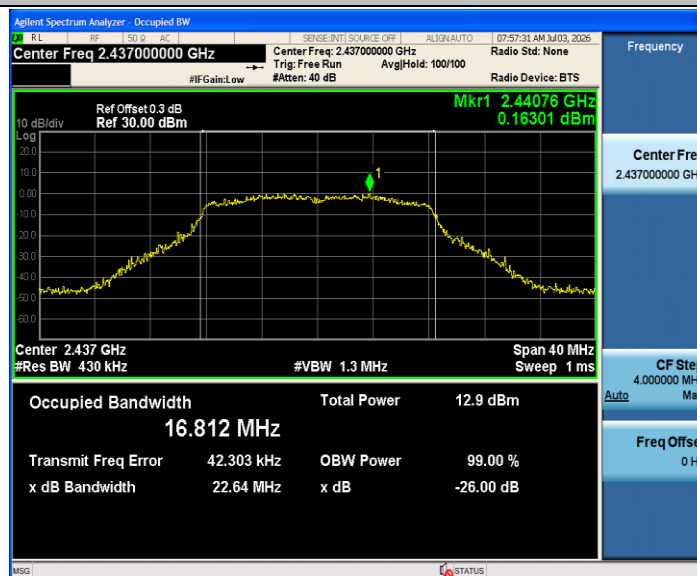
11B_Ant1_2462



11G_Ant1_2412



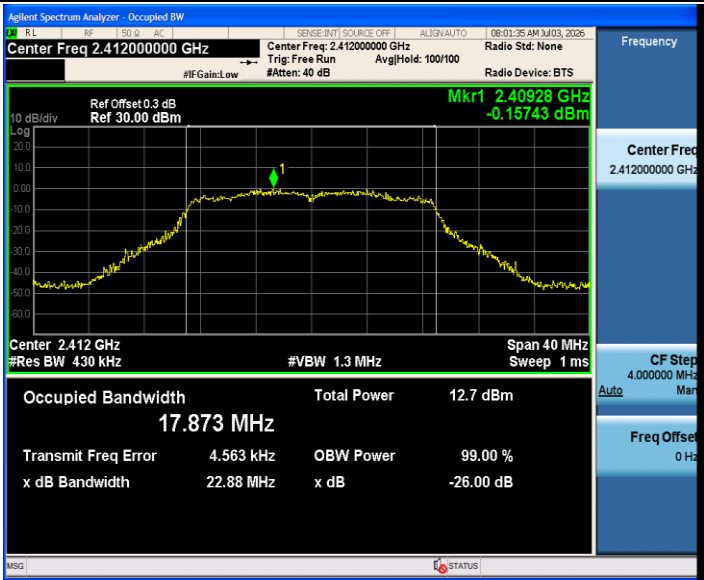
11G_Ant1_2437



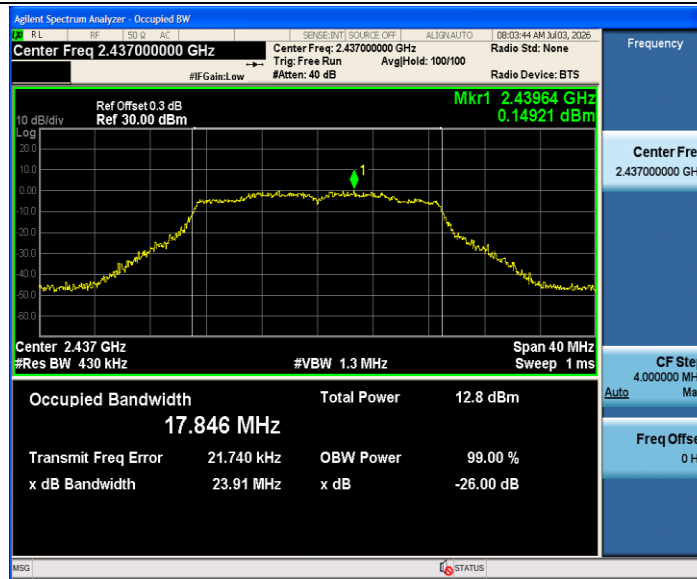
11G_Ant1_2462



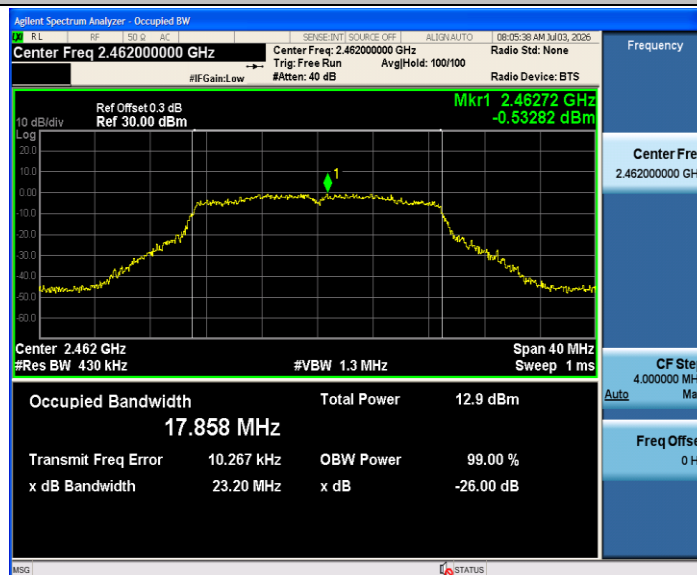
11N20SISO_Ant1_2412



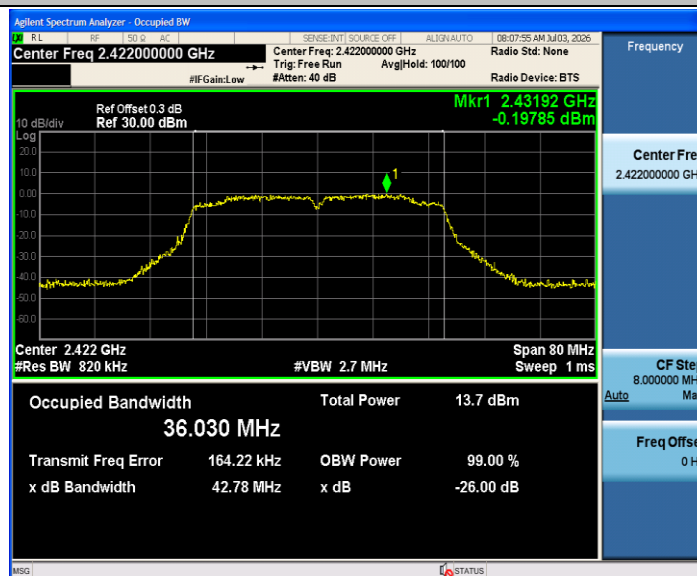
11N20SISO_Ant1_2437



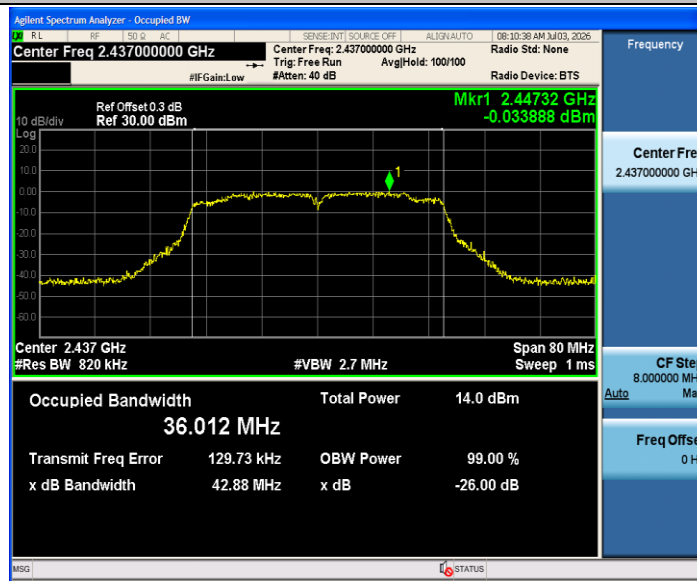
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.24	≤30.00	PASS
		2437	14.42	≤30.00	PASS
		2462	14.58	≤30.00	PASS
11G	Ant1	2412	13.62	≤30.00	PASS
		2437	13.76	≤30.00	PASS
		2462	13.91	≤30.00	PASS
11N20SISO	Ant1	2412	13.35	≤30.00	PASS
		2437	13.39	≤30.00	PASS
		2462	13.78	≤30.00	PASS
11N40SISO	Ant1	2422	13.81	≤30.00	PASS
		2437	14.10	≤30.00	PASS
		2452	13.98	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

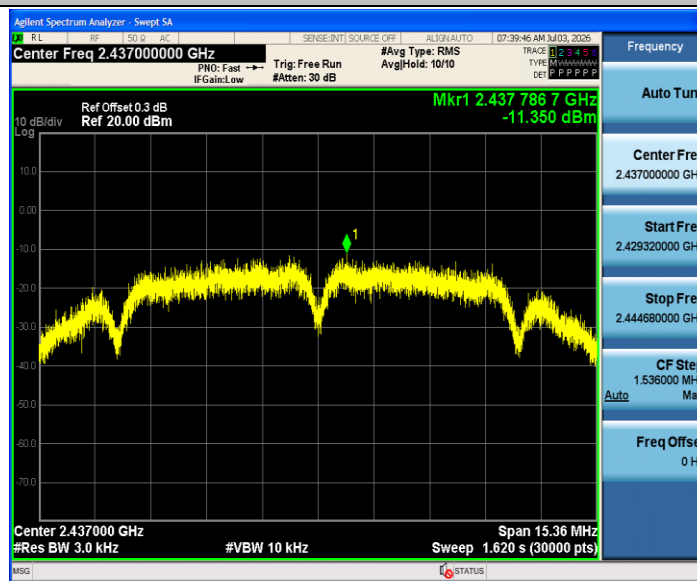
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.31	≤8.00	PASS
		2437	-11.35	≤8.00	PASS
		2462	-11.61	≤8.00	PASS
11G	Ant1	2412	-18.31	≤8.00	PASS
		2437	-17.64	≤8.00	PASS
		2462	-17.08	≤8.00	PASS
11N20SISO	Ant1	2412	-18.01	≤8.00	PASS
		2437	-17.45	≤8.00	PASS
		2462	-17.16	≤8.00	PASS
11N40SISO	Ant1	2422	-20.43	≤8.00	PASS
		2437	-21.11	≤8.00	PASS
		2452	-20.68	≤8.00	PASS

Test Graphs

11B_Ant1_2412



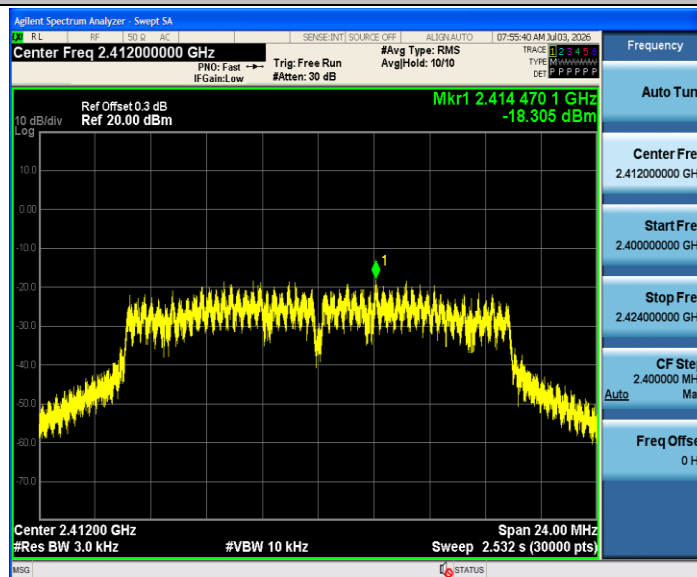
11B_Ant1_2437



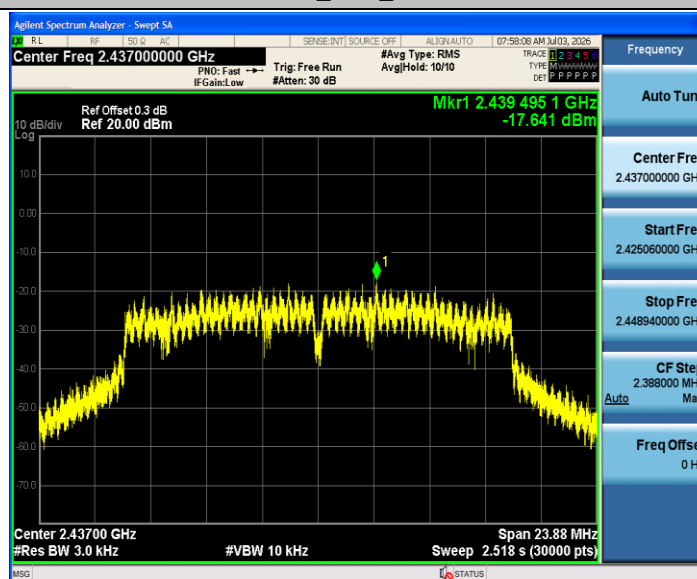
11B_Ant1_2462



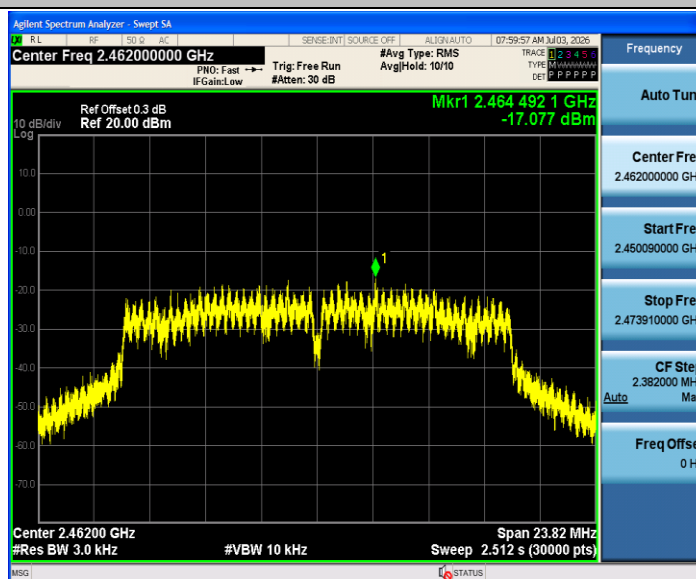
11G_Ant1_2412



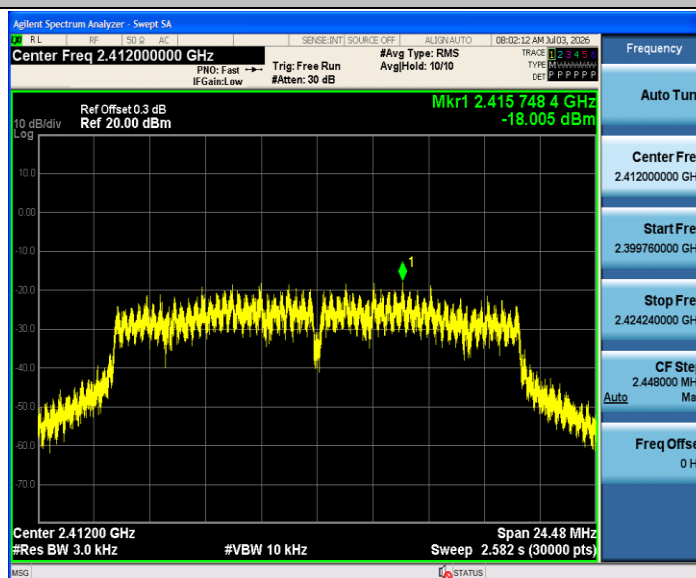
11G_Ant1_2437



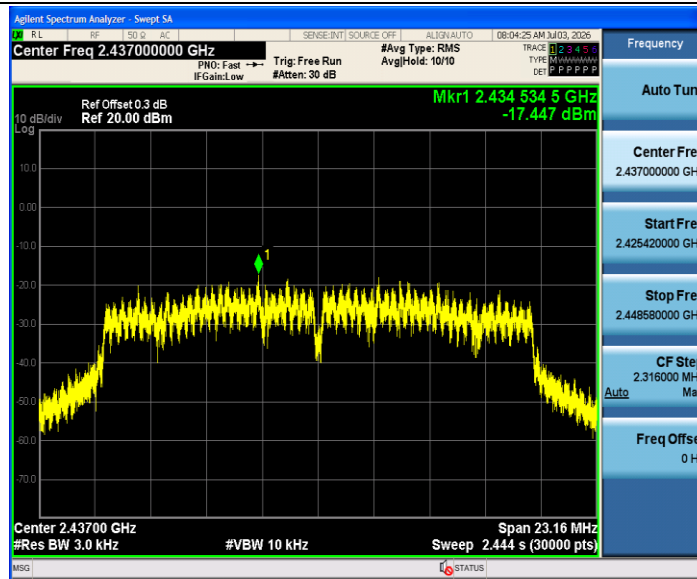
11G_Ant1_2462



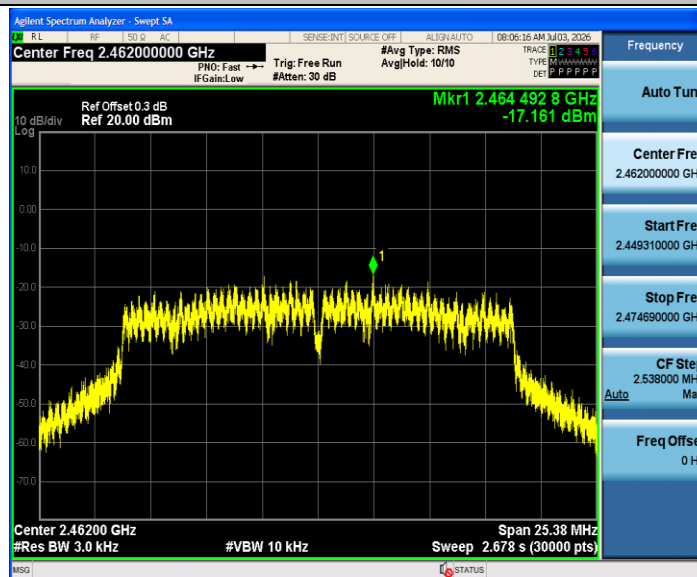
11N20SISO_Ant1_2412



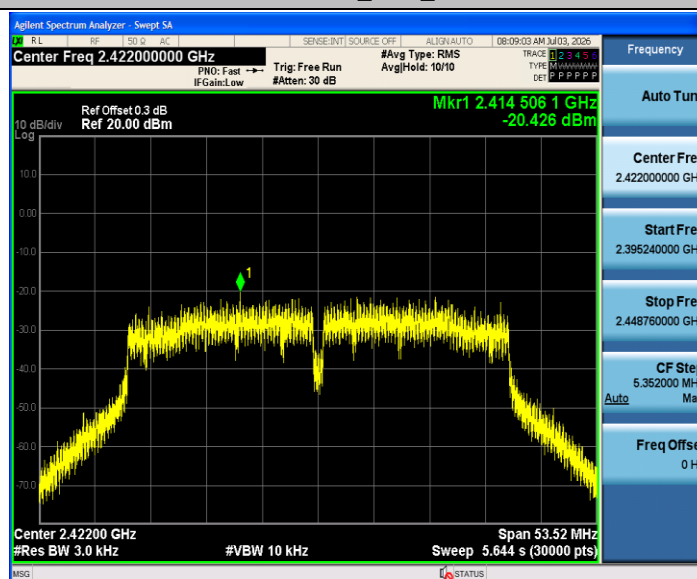
11N20SISO_Ant1_2437



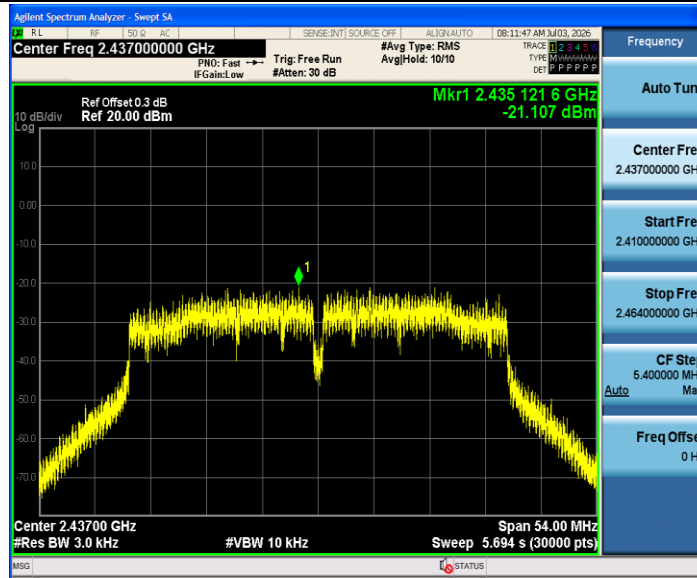
11N20SISO_Ant1_2462



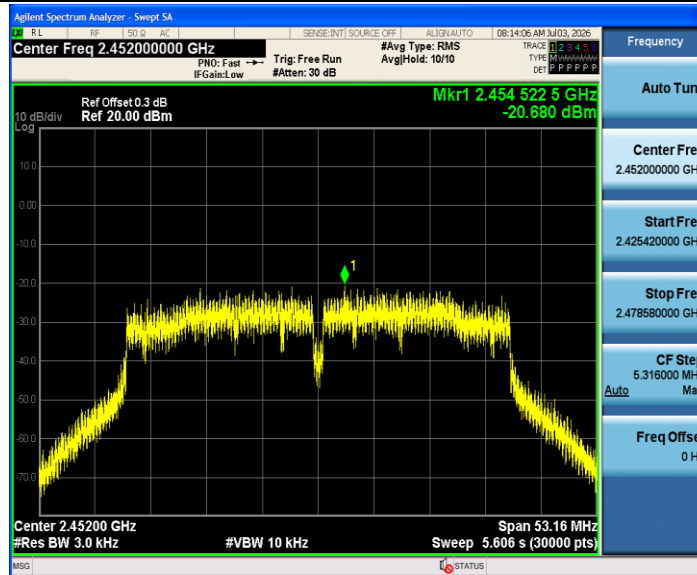
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



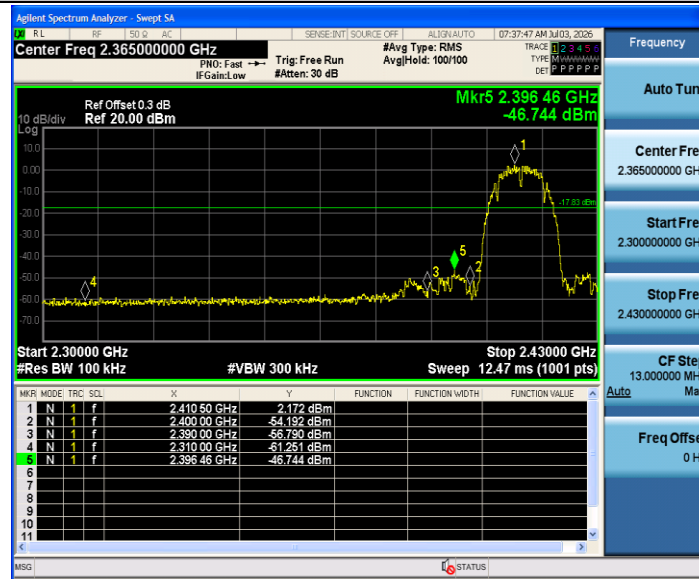
Appendix E: Band edge measurements

Test Result

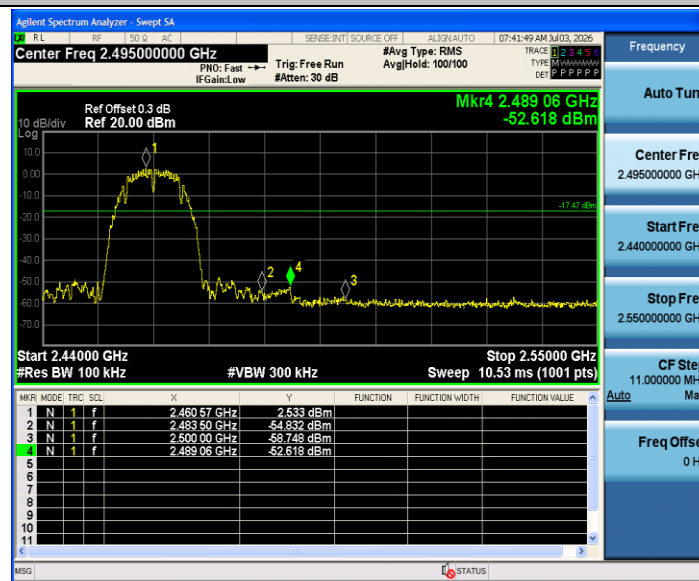
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.17	-46.74	≤ -17.83	PASS
		High	2462	2.53	-52.62	≤ -17.47	PASS
11G	Ant1	Low	2412	-2.90	-32.32	≤ -22.9	PASS
		High	2462	-2.51	-57.73	≤ -22.51	PASS
11N20SISO	Ant1	Low	2412	-3.10	-34.71	≤ -23.1	PASS
		High	2462	-2.52	-57.34	≤ -22.52	PASS
11N40SISO	Ant1	Low	2422	-6.09	-34.75	≤ -26.09	PASS
		High	2452	-5.87	-56.69	≤ -25.87	PASS

Test Graphs

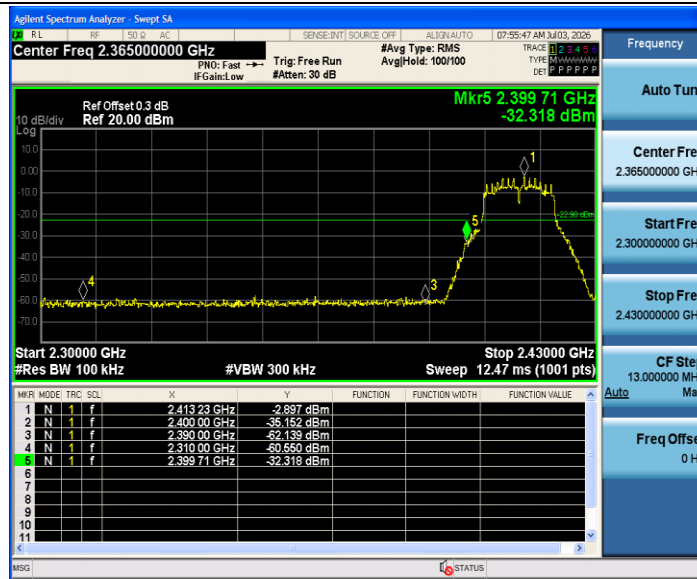
11B_Ant1_Low_2412



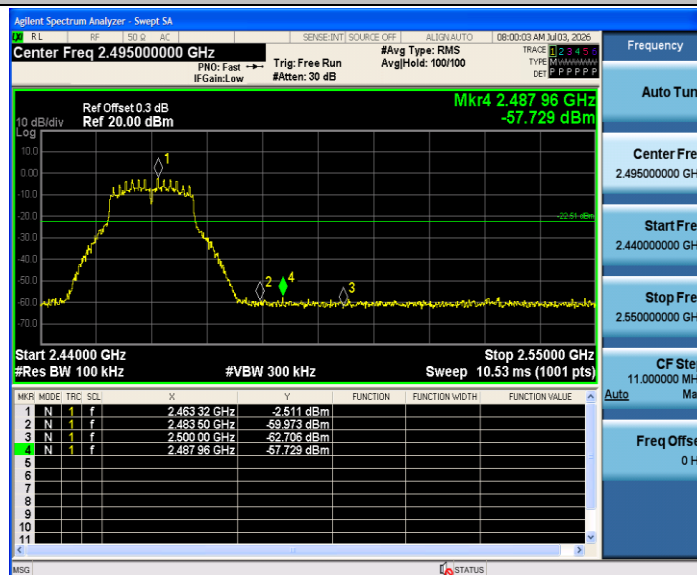
11B_Ant1_High_2462



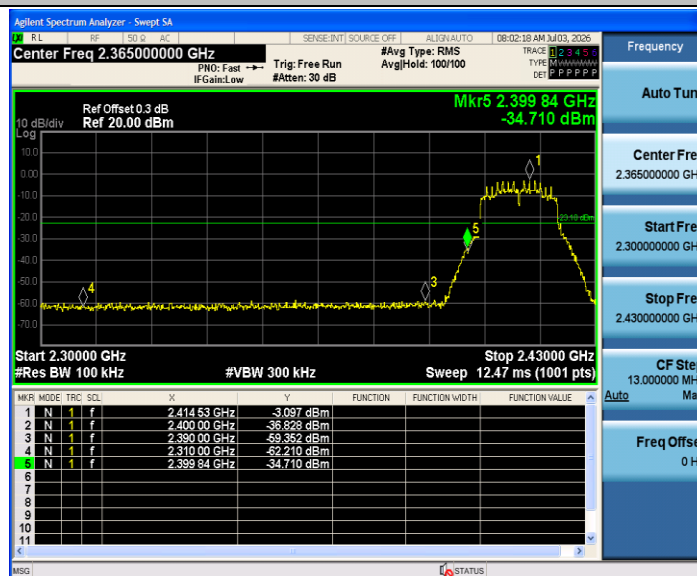
11G_Ant1_Low_2412



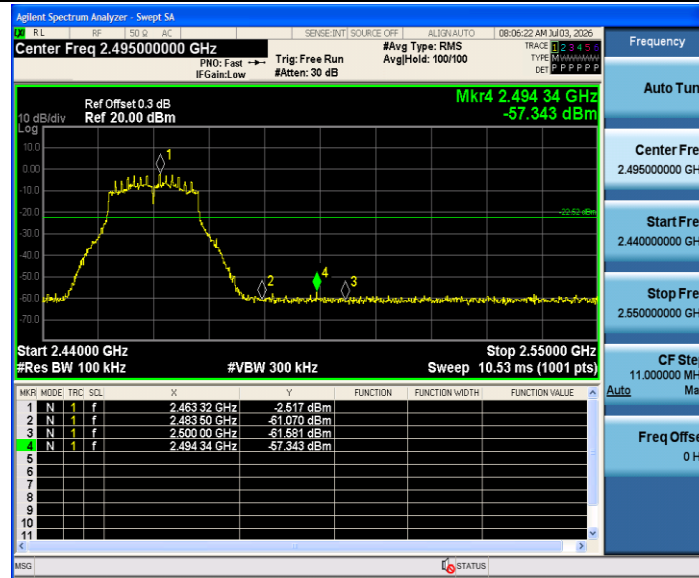
11G_Ant1_High_2462



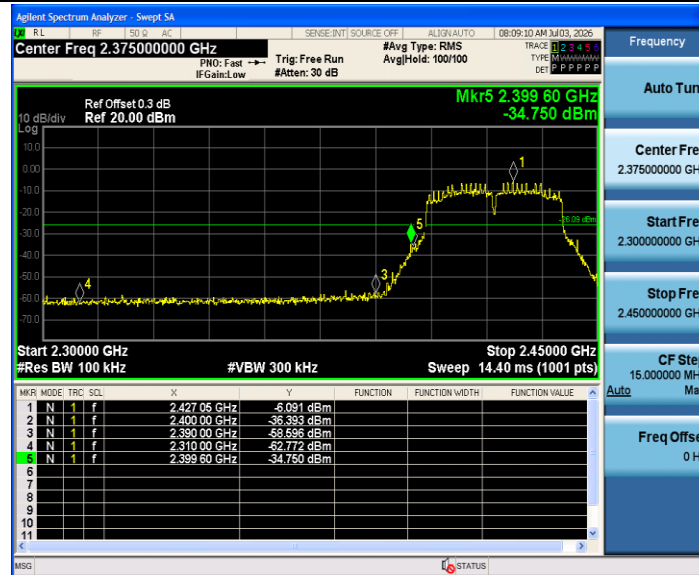
11N20SISO_Ant1_Low_2412



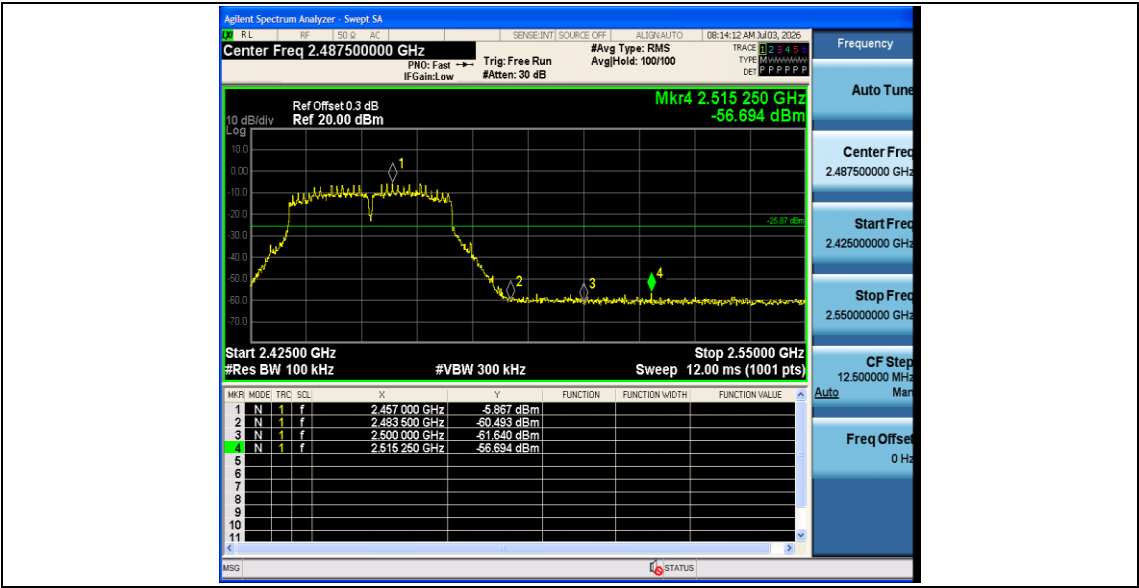
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

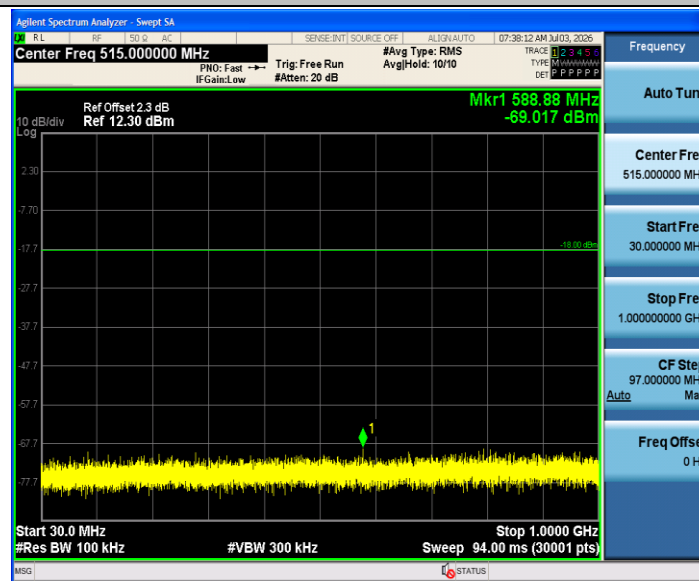
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.00	2.00	---	PASS
			30~1000	2.00	-69.02	≤-18	PASS
			1000~26500	2.00	-47.12	≤-18	PASS
		2437	Reference	1.76	1.76	---	PASS
			30~1000	1.76	-69.25	≤-18.24	PASS
			1000~26500	1.76	-46.76	≤-18.24	PASS
		2462	Reference	2.14	2.14	---	PASS
			30~1000	2.14	-68.42	≤-17.86	PASS
			1000~26500	2.14	-46.88	≤-17.86	PASS
11G	Ant1	2412	Reference	-3.28	-3.28	---	PASS
			30~1000	-3.28	-69.18	≤-23.28	PASS
			1000~26500	-3.28	-47.07	≤-23.28	PASS
		2437	Reference	-3.16	-3.16	---	PASS
			30~1000	-3.16	-69.33	≤-23.16	PASS
			1000~26500	-3.16	-46.79	≤-23.16	PASS
		2462	Reference	-2.66	-2.66	---	PASS
			30~1000	-2.66	-69.64	≤-22.66	PASS
			1000~26500	-2.66	-47.23	≤-22.66	PASS
11N20SISO	Ant1	2412	Reference	-4.25	-4.25	---	PASS
			30~1000	-4.25	-69	≤-24.25	PASS
			1000~26500	-4.25	-46.62	≤-24.25	PASS
		2437	Reference	-3.20	-3.20	---	PASS
			30~1000	-3.20	-68.78	≤-23.2	PASS
			1000~26500	-3.20	-46.35	≤-23.2	PASS
		2462	Reference	-3.02	-3.02	---	PASS
			30~1000	-3.02	-69.56	≤-23.02	PASS
			1000~26500	-3.02	-47.21	≤-23.02	PASS
11N40SISO	Ant1	2422	Reference	-6.42	-6.42	---	PASS
			30~1000	-6.42	-69.57	≤-26.42	PASS
			1000~26500	-6.42	-46.99	≤-26.42	PASS
		2437	Reference	-6.17	-6.17	---	PASS
			30~1000	-6.17	-69.22	≤-26.17	PASS
			1000~26500	-6.17	-46.8	≤-26.17	PASS
		2452	Reference	-6.06	-6.06	---	PASS
			30~1000	-6.06	-68.58	≤-26.06	PASS
			1000~26500	-6.06	-47.34	≤-26.06	PASS

Test Graphs

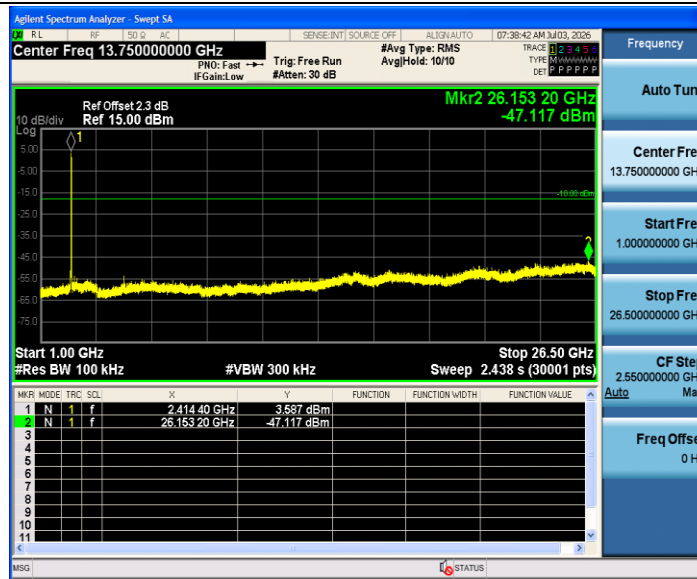
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



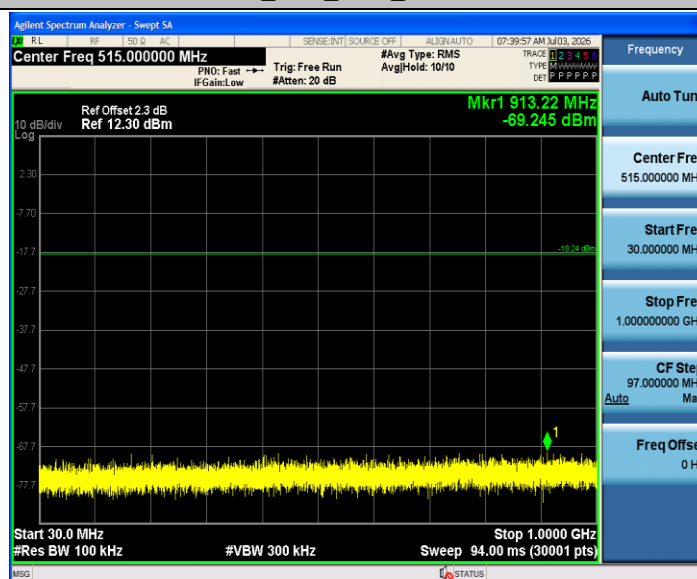
11B_Ant1_2412_1000~26500



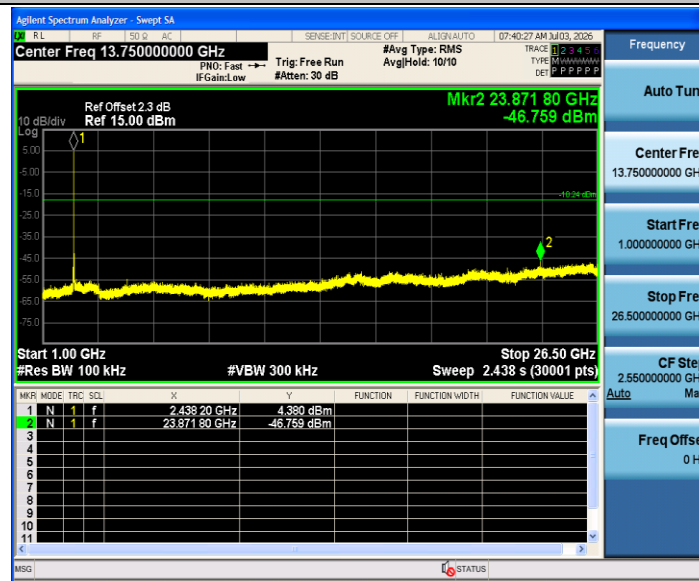
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



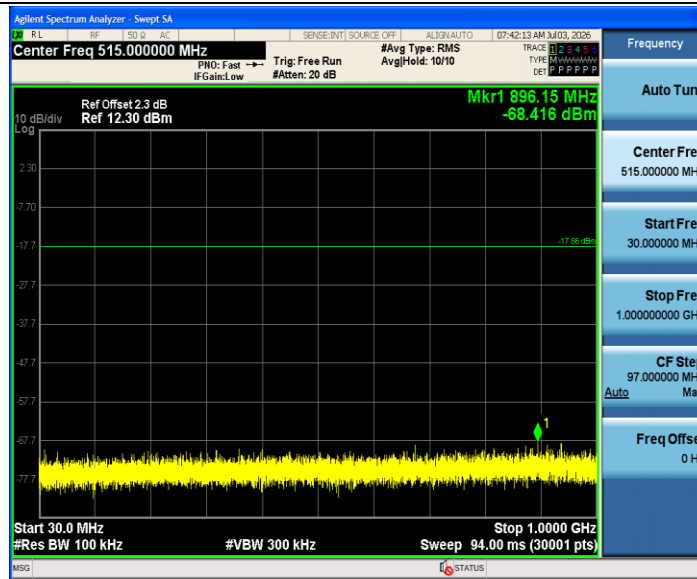
11B_Ant1_2437_1000~26500



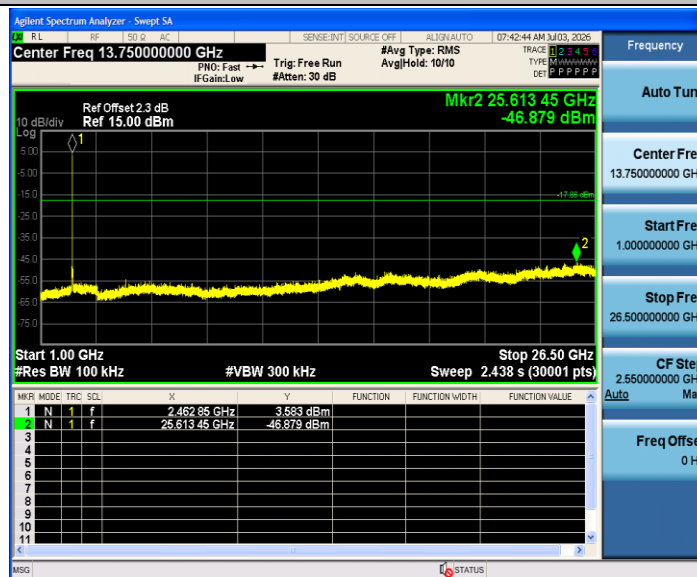
11B_Ant1_2462_0~Reference



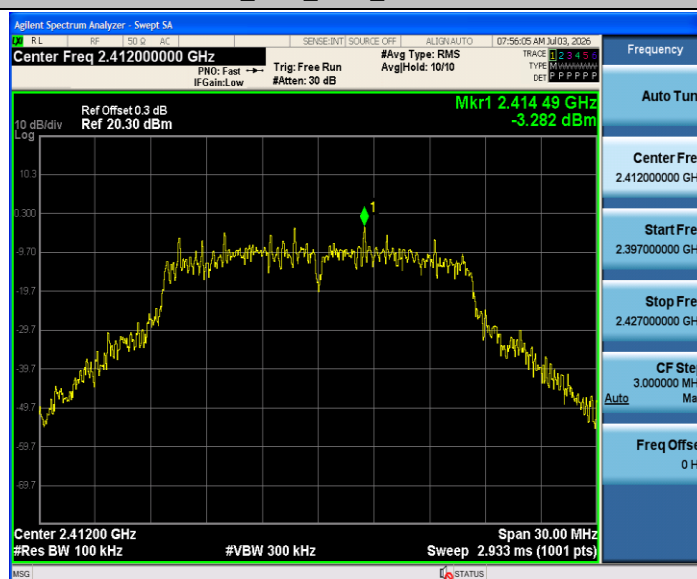
11B_Ant1_2462_30~1000



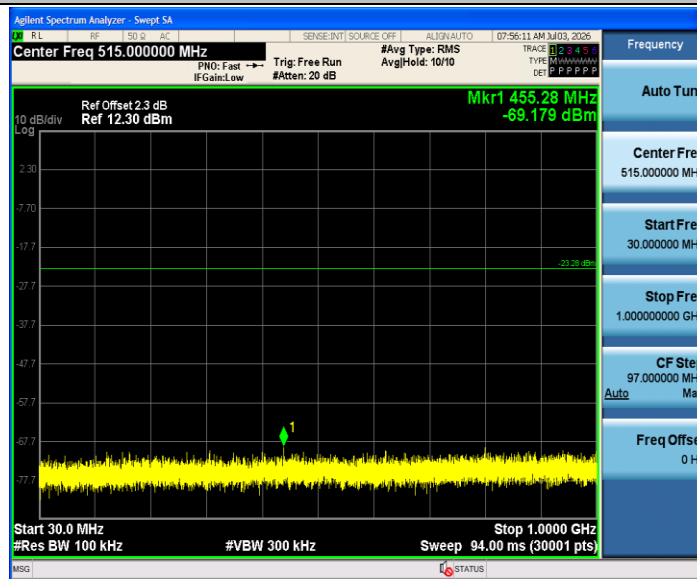
11B_Ant1_2462_1000~26500



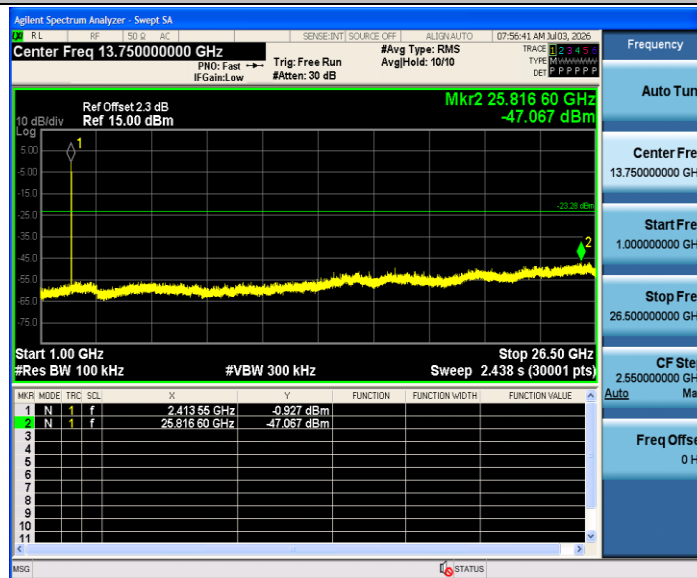
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



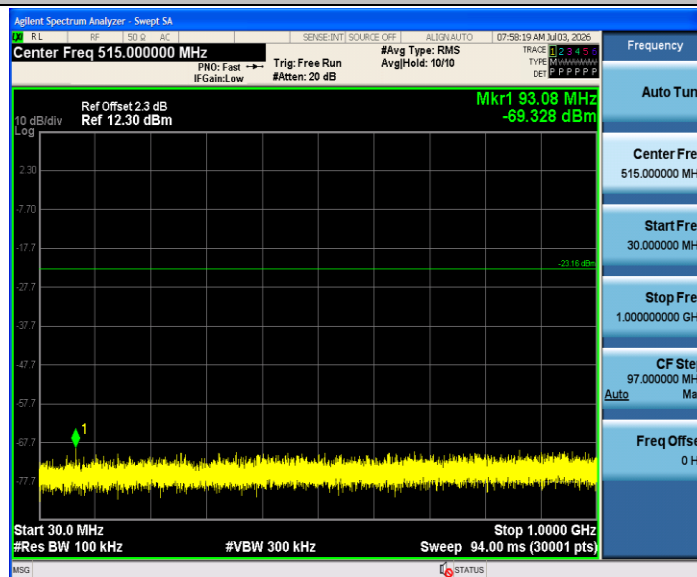
11G_Ant1_2412_1000~26500



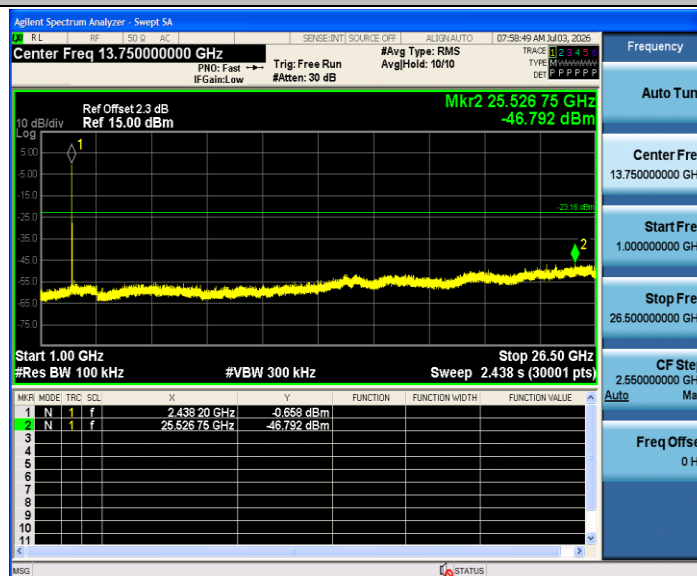
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



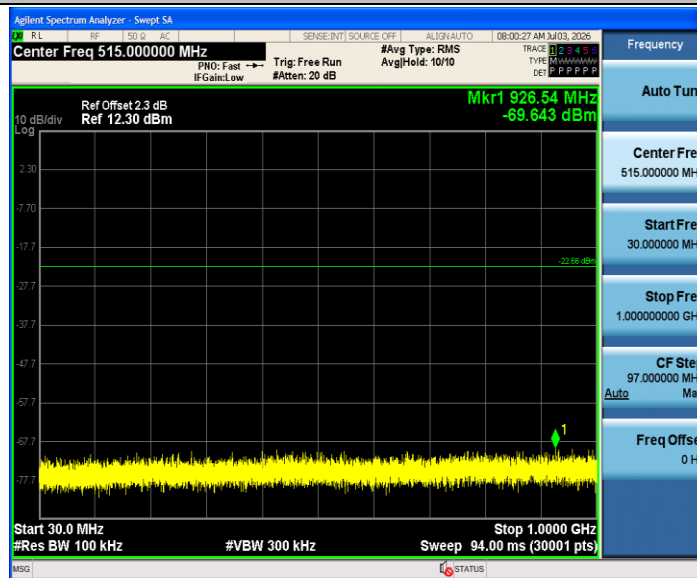
11G_Ant1_2437_1000~26500



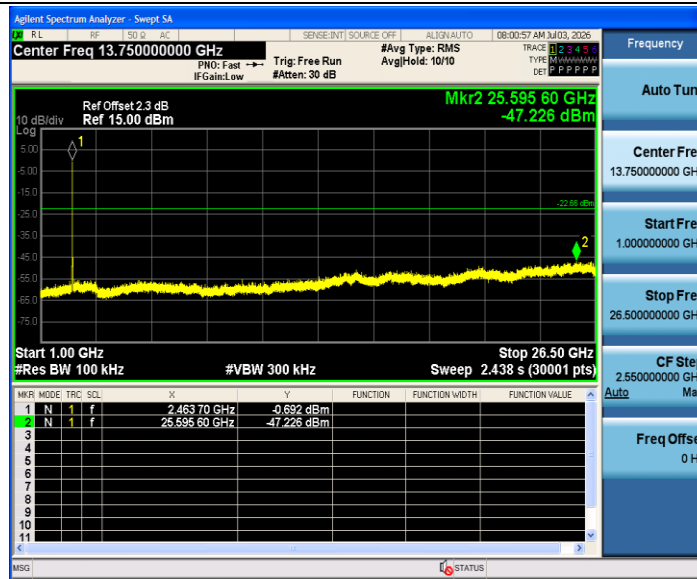
11G_Ant1_2462_0~Reference



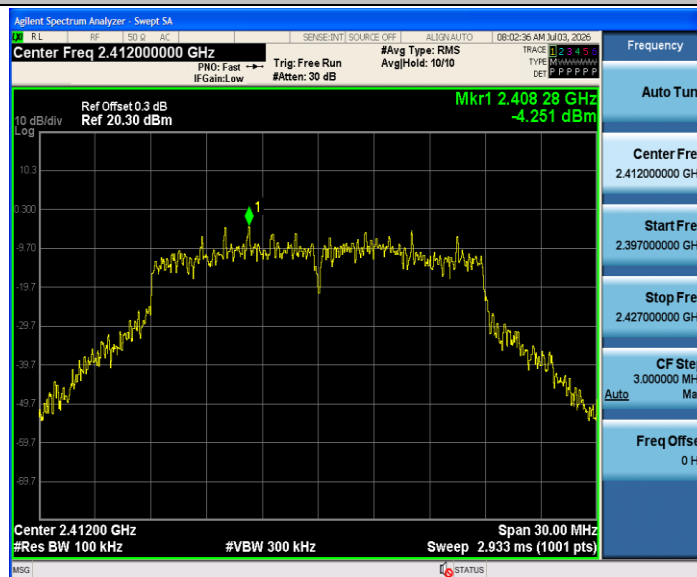
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

