

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BTLS-KY-02

Company : Guangzhou Zhonglipin Intelligent Technology Co., Ltd

EUT : Electronic calendar

Model Number : KY-02

Report No. : CTA26042001001

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	10.240	2406.920	2417.160	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	15.680	2404.080	2419.760	0.5	PASS
		2437	15.880	2428.960	2444.840	0.5	PASS
		2462	15.840	2454.000	2469.840	0.5	PASS
11N20SISO	Ant1	2412	16.120	2404.080	2420.200	0.5	PASS
		2437	16.040	2429.400	2445.440	0.5	PASS
		2462	17.000	2453.640	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.560	2440.000	0.5	PASS
		2437	35.440	2419.480	2454.920	0.5	PASS
		2452	35.840	2434.160	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



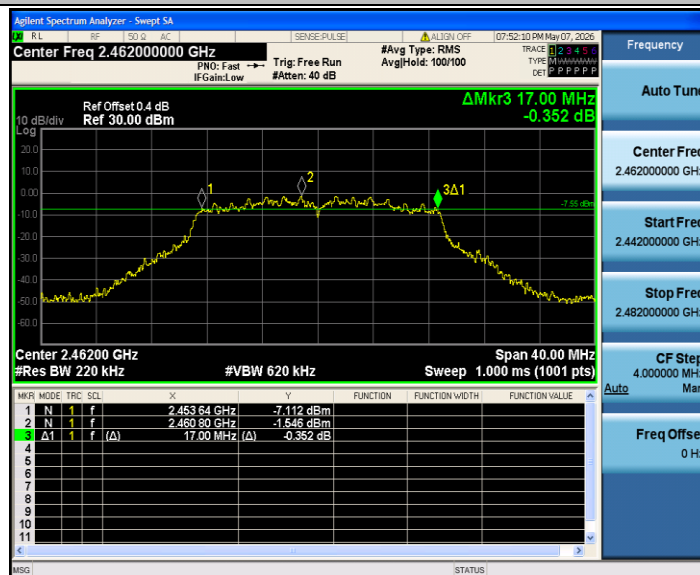
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



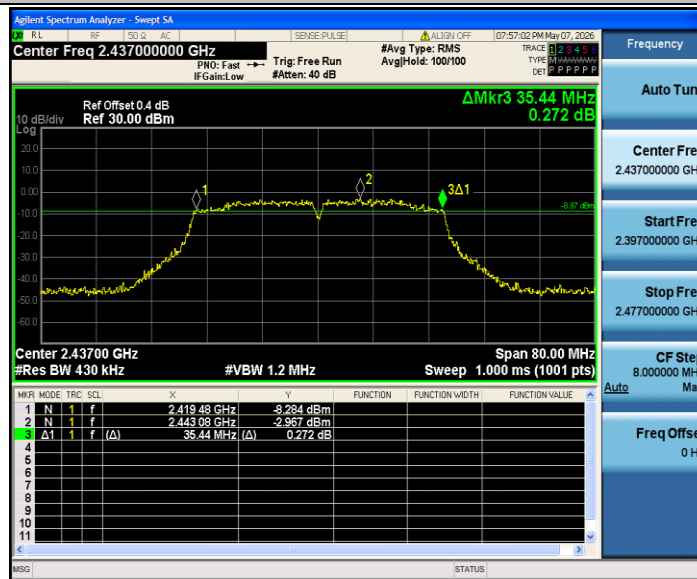
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



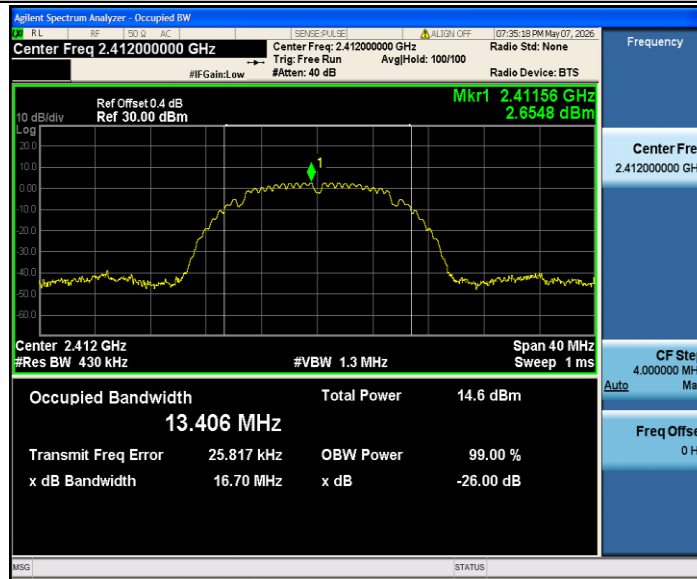
Appendix B: Occupied Channel Bandwidth

Test Result

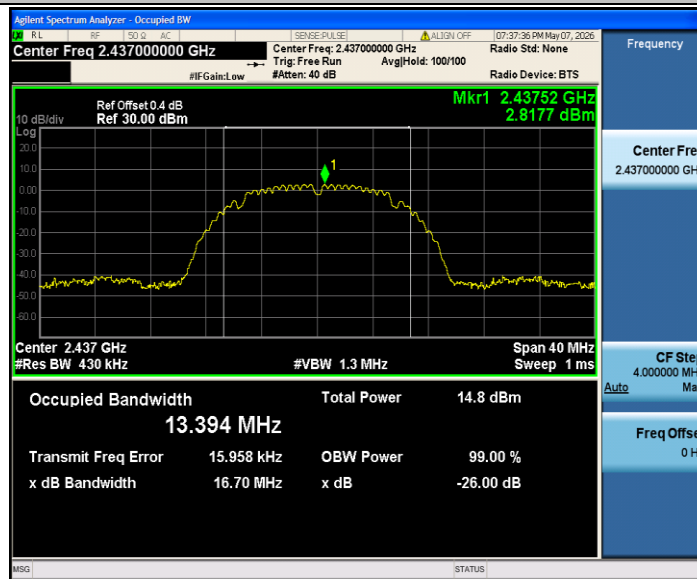
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.406	2405.3228	2418.7288	---	---
		2437	13.394	2430.3190	2443.7130	---	---
		2462	13.413	2455.3065	2468.7195	---	---
11G	Ant1	2412	16.881	2403.5959	2420.4769	---	---
		2437	16.887	2428.5973	2445.4843	---	---
		2462	16.898	2453.5691	2470.4671	---	---
11N20SISO	Ant1	2412	17.889	2403.0778	2420.9668	---	---
		2437	17.948	2428.0458	2445.9938	---	---
		2462	17.957	2453.0361	2470.9931	---	---
11N40SISO	Ant1	2422	36.043	2404.0534	2440.0964	---	---
		2437	36.013	2419.0932	2455.1062	---	---
		2452	36.141	2434.0508	2470.1918	---	---

Test Graphs

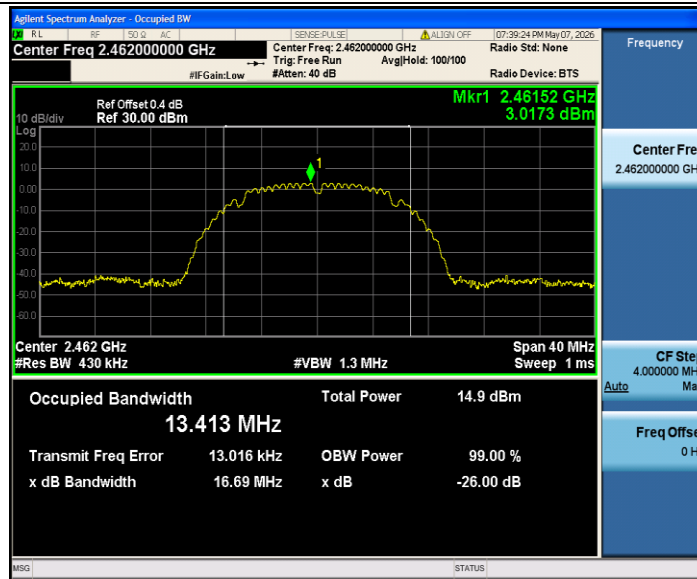
11B_Ant1_2412



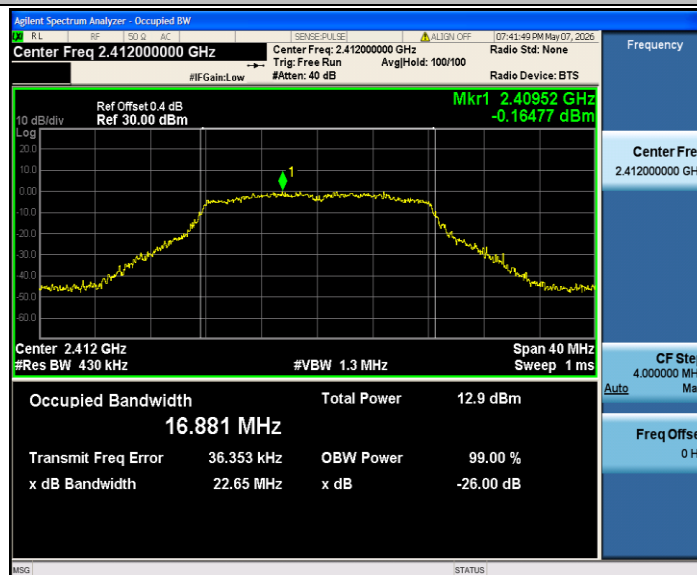
11B_Ant1_2437



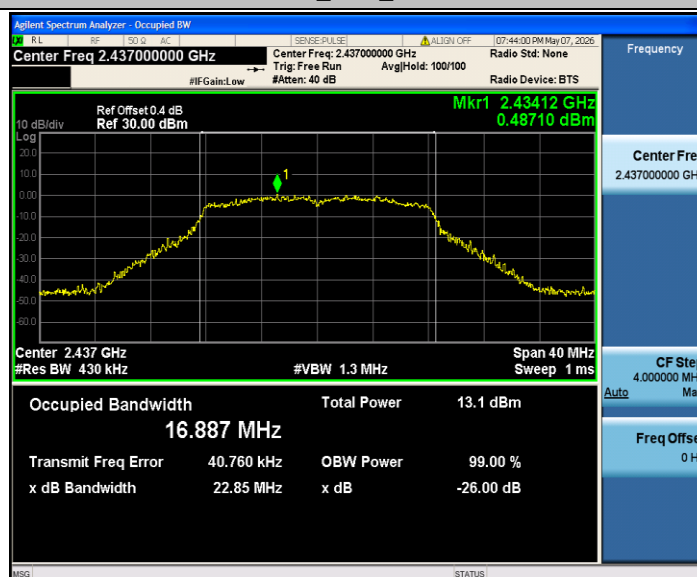
11B_Ant1_2462



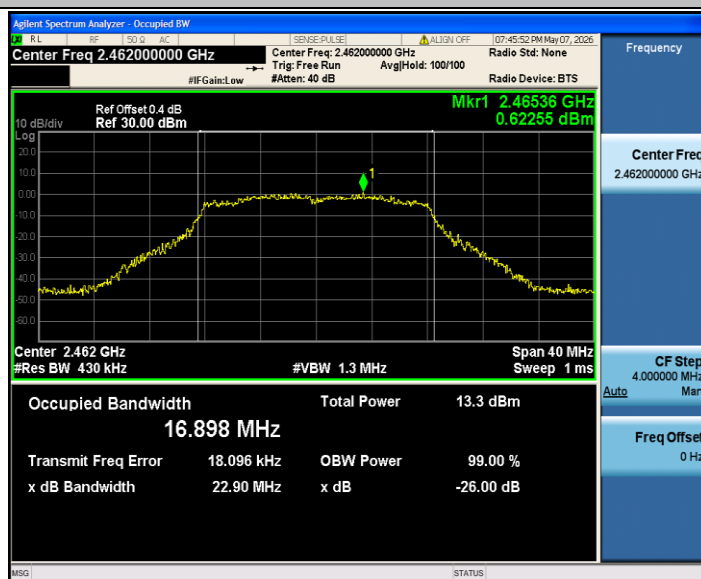
11G_Ant1_2412



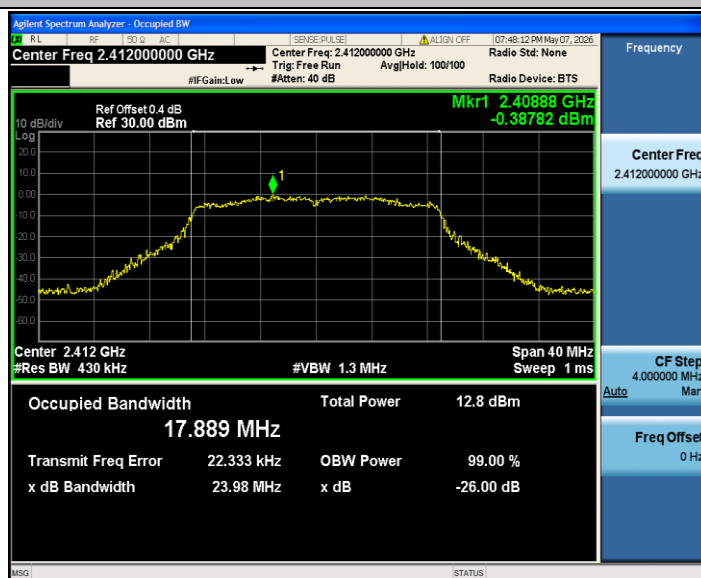
11G_Ant1_2437



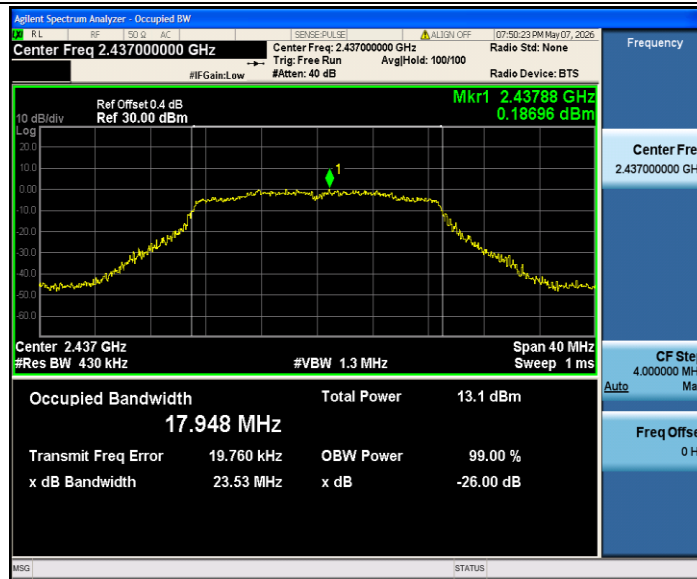
11G_Ant1_2462



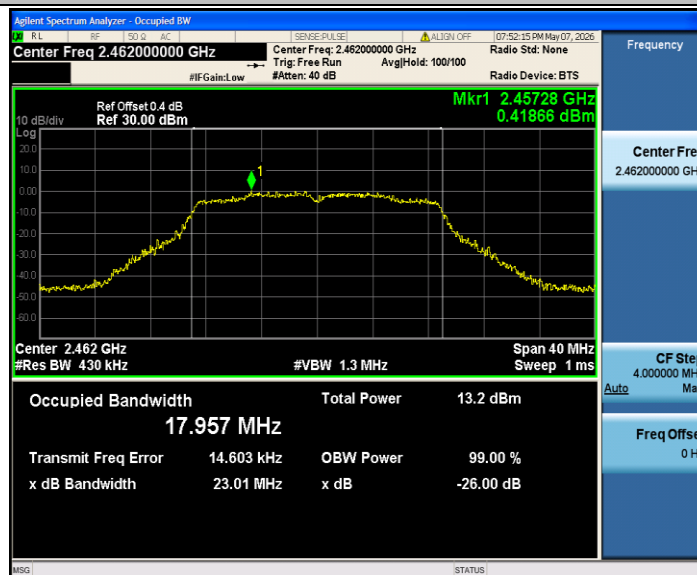
11N20SISO_Ant1_2412



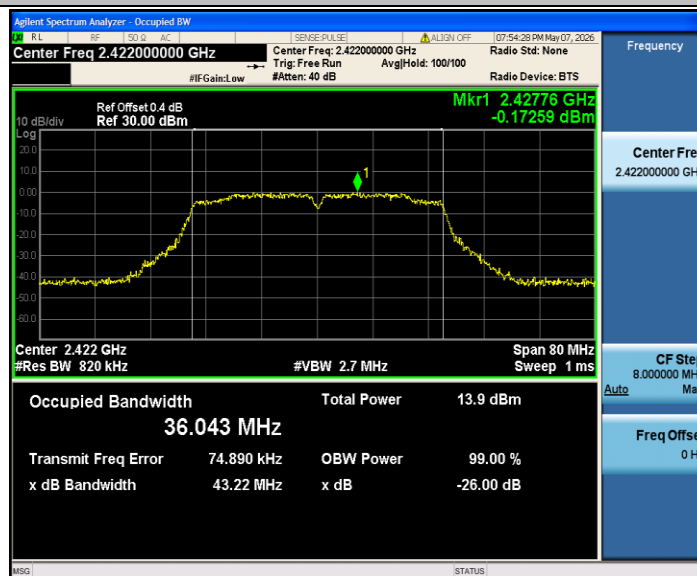
11N20SISO_Ant1_2437



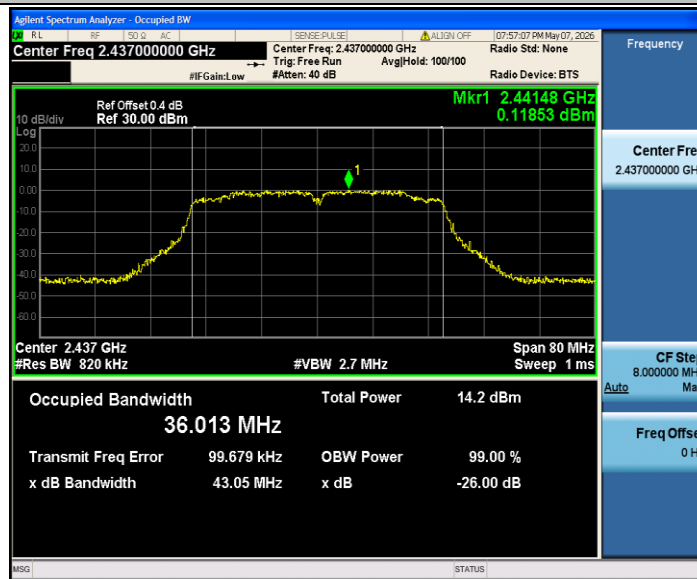
11N20SISO_Ant1_2462



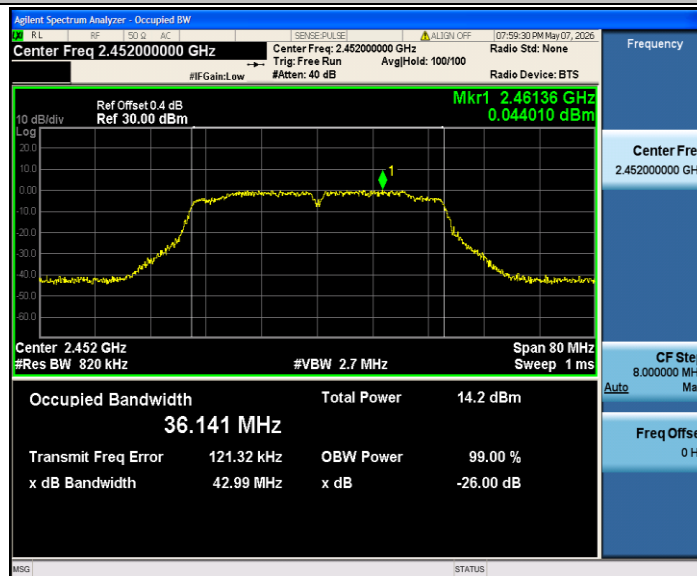
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

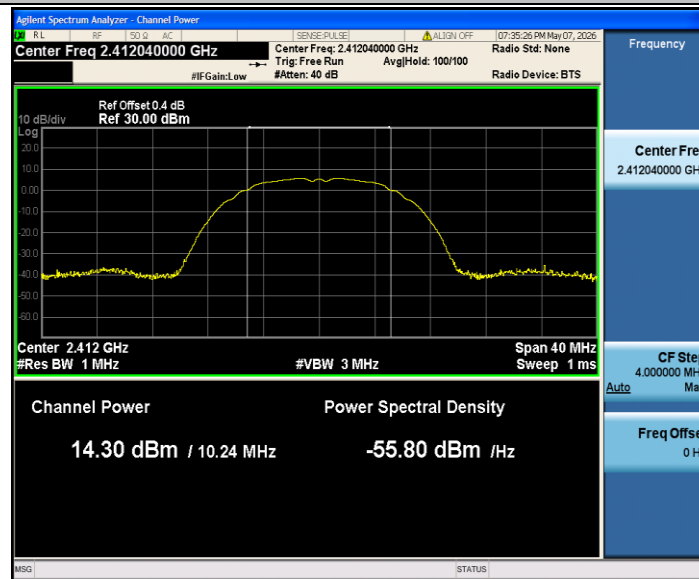
Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.30	≤30.00	PASS
		2437	14.46	≤30.00	PASS
		2462	14.56	≤30.00	PASS
11G	Ant1	2412	13.81	≤30.00	PASS
		2437	14.08	≤30.00	PASS
		2462	14.17	≤30.00	PASS
11N20SISO	Ant1	2412	13.64	≤30.00	PASS
		2437	13.81	≤30.00	PASS
		2462	13.98	≤30.00	PASS
11N40SISO	Ant1	2422	14.05	≤30.00	PASS
		2437	14.31	≤30.00	PASS
		2452	14.28	≤30.00	PASS

Test Graphs Peak

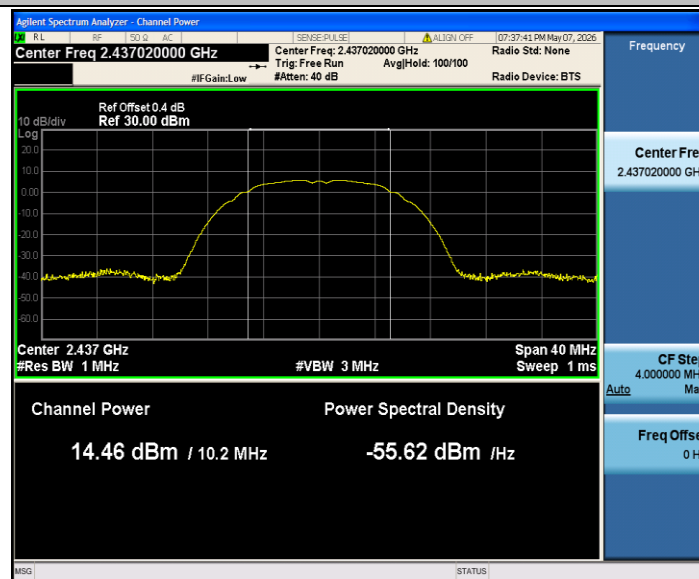
Maximum conducted output power

Test Graphs Average

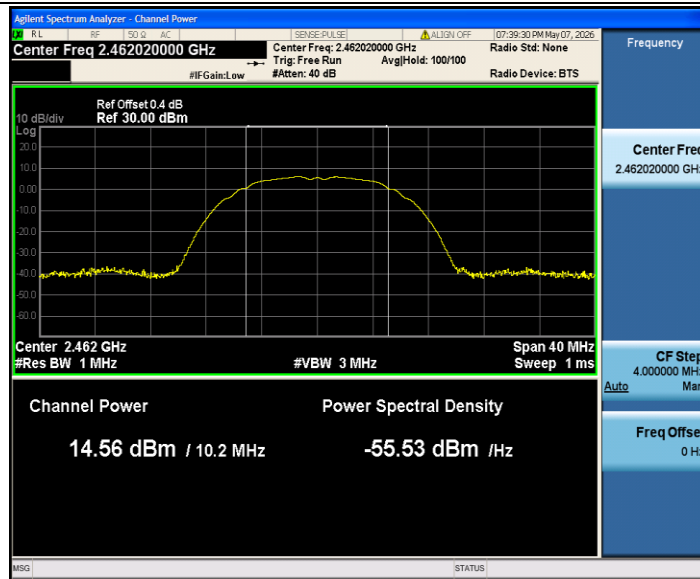
11B_Ant1_2412



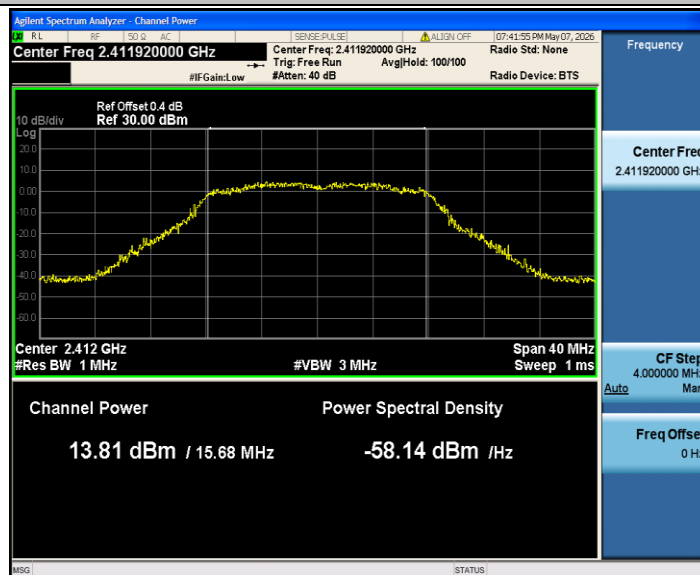
11B_Ant1_2437



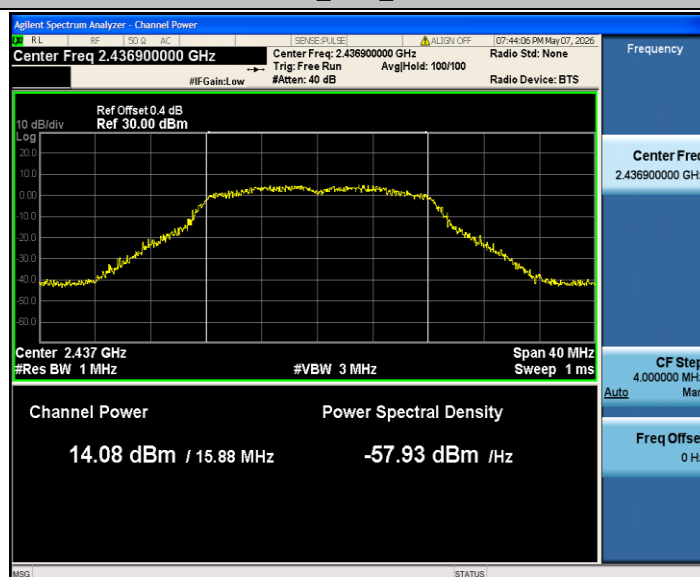
11B_Ant1_2462



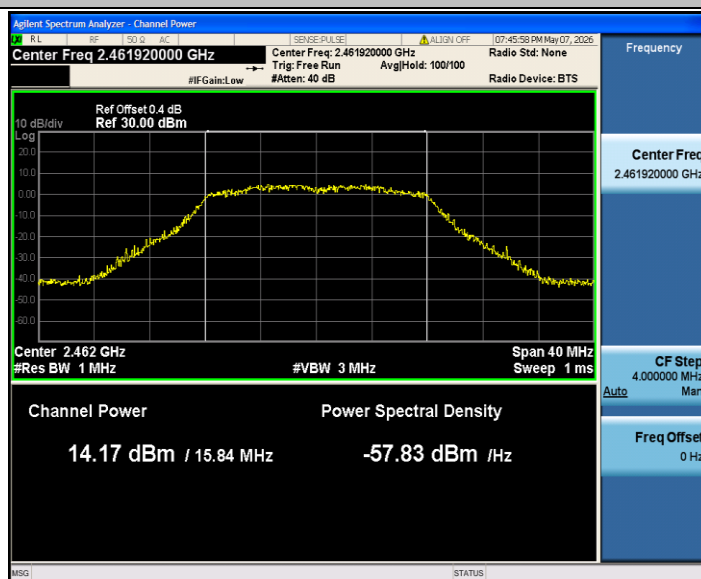
11G_Ant1_2412



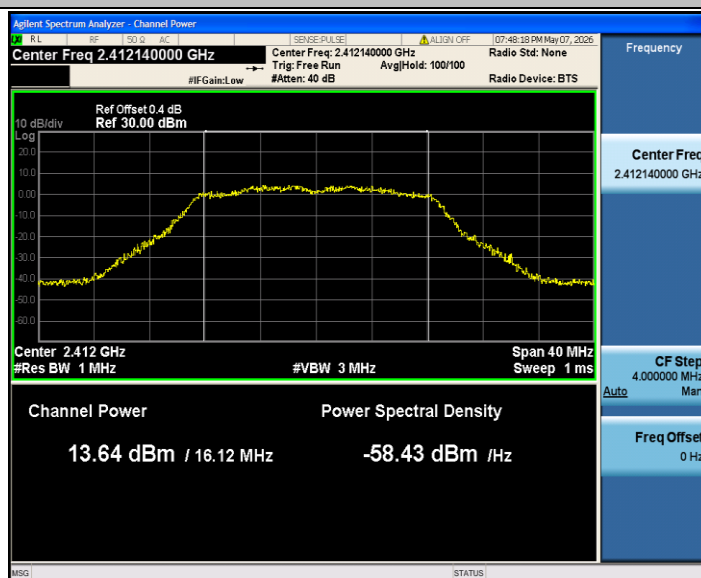
11G_Ant1_2437



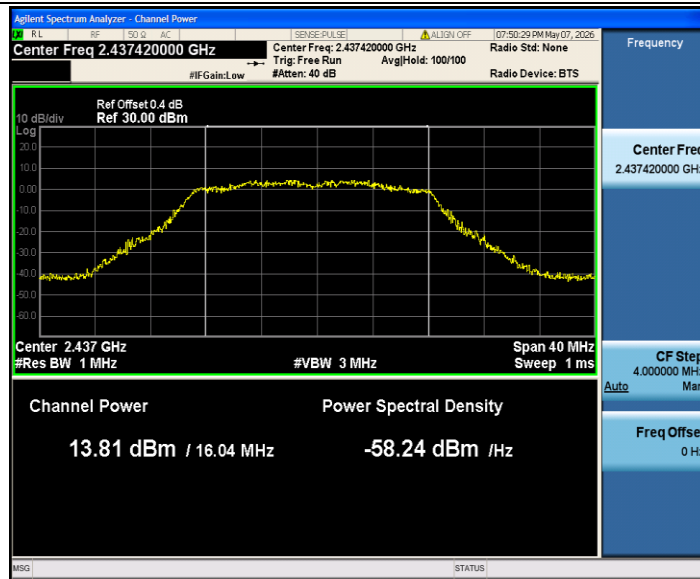
11G_Ant1_2462



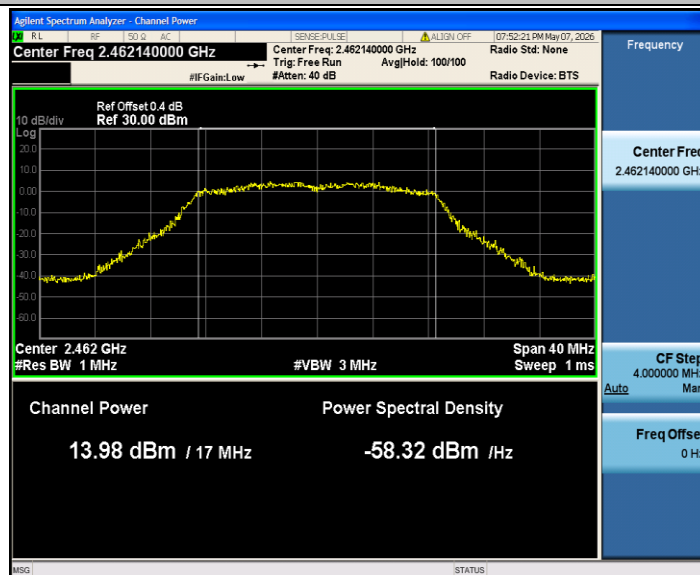
11N20SISO_Ant1_2412



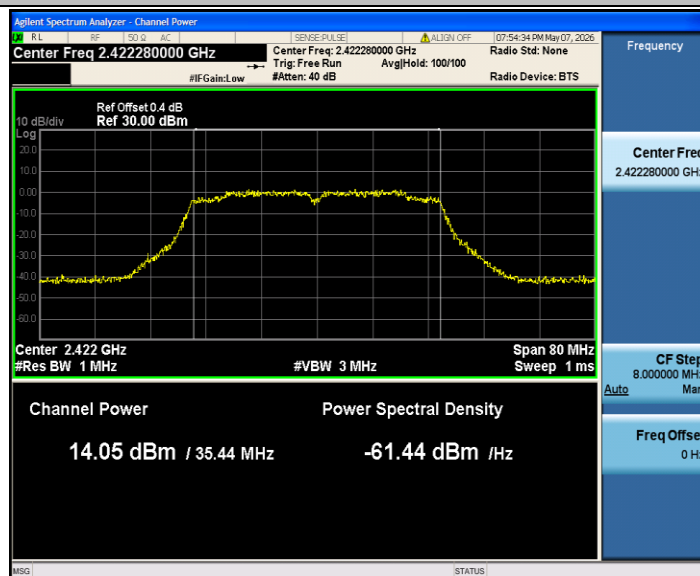
11N20SISO_Ant1_2437



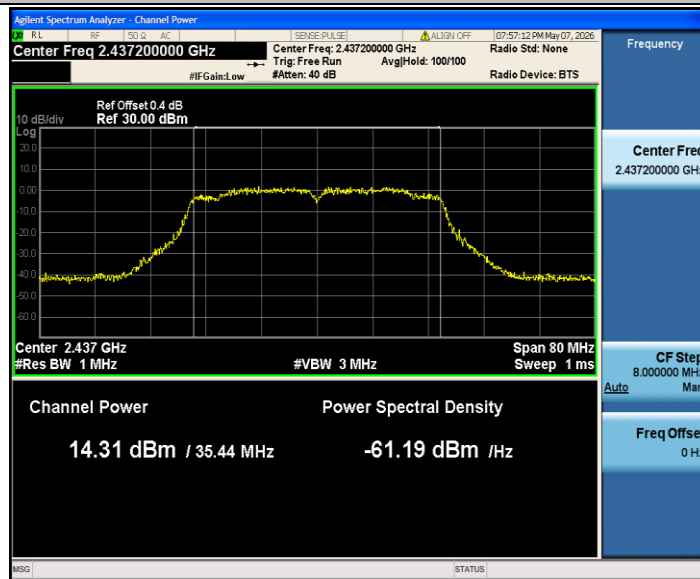
11N20SISO_Ant1_2462



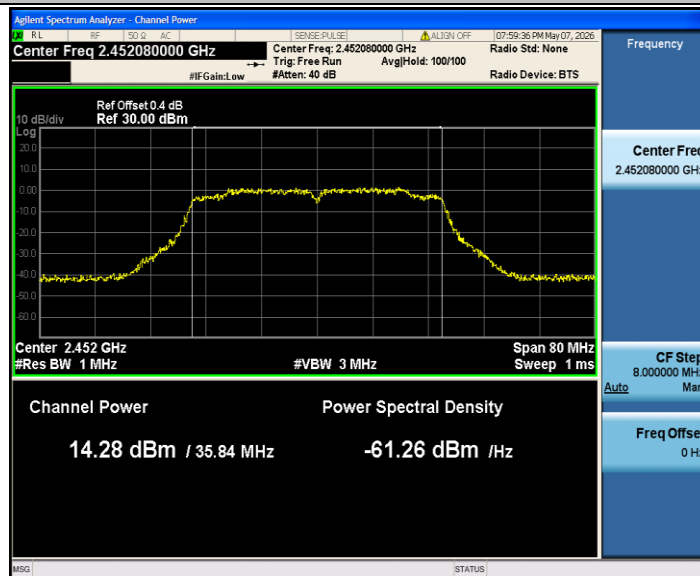
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.03	≤8.00	PASS
		2437	-11.19	≤8.00	PASS
		2462	-10.63	≤8.00	PASS
11G	Ant1	2412	-17.57	≤8.00	PASS
		2437	-18.11	≤8.00	PASS
		2462	-17.71	≤8.00	PASS
11N20SISO	Ant1	2412	-17.28	≤8.00	PASS
		2437	-17.55	≤8.00	PASS
		2462	-17.63	≤8.00	PASS
11N40SISO	Ant1	2422	-20.90	≤8.00	PASS
		2437	-20.29	≤8.00	PASS
		2452	-18.96	≤8.00	PASS

Test Graphs

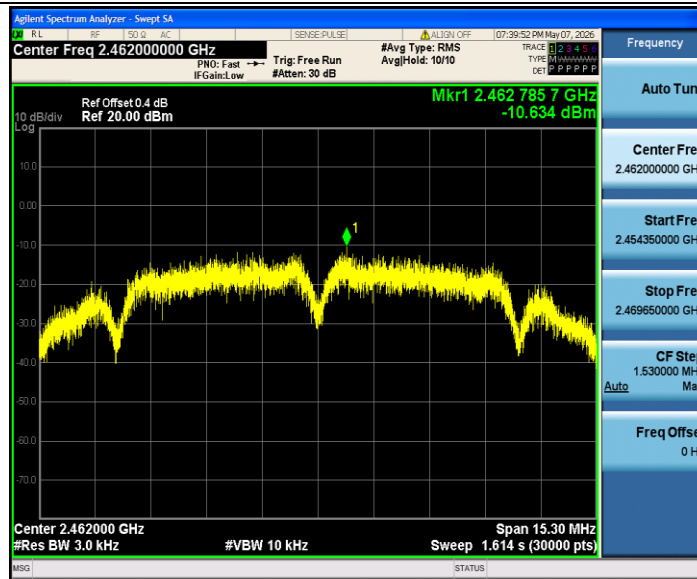
11B_Ant1_2412



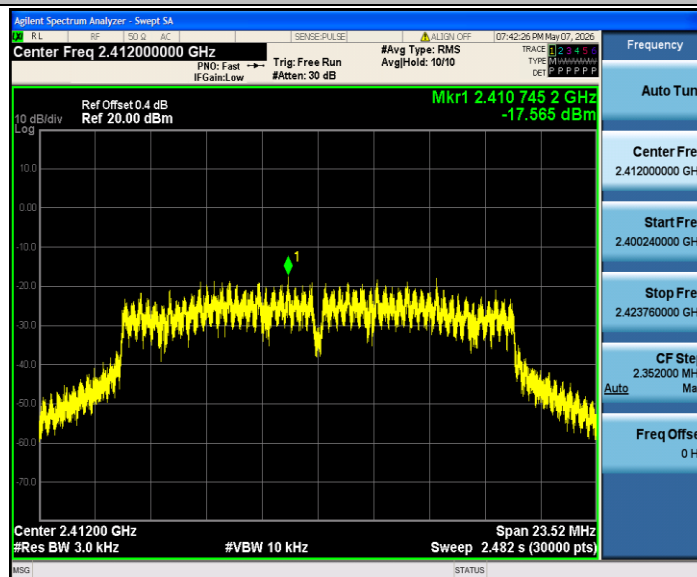
11B_Ant1_2437



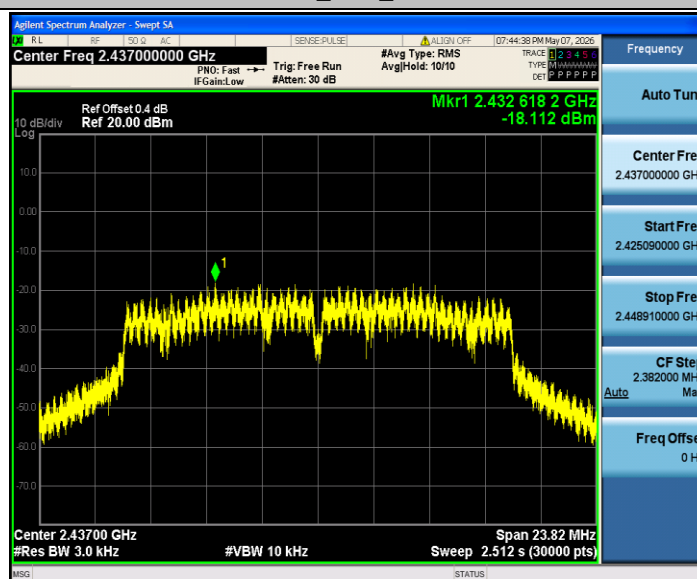
11B_Ant1_2462



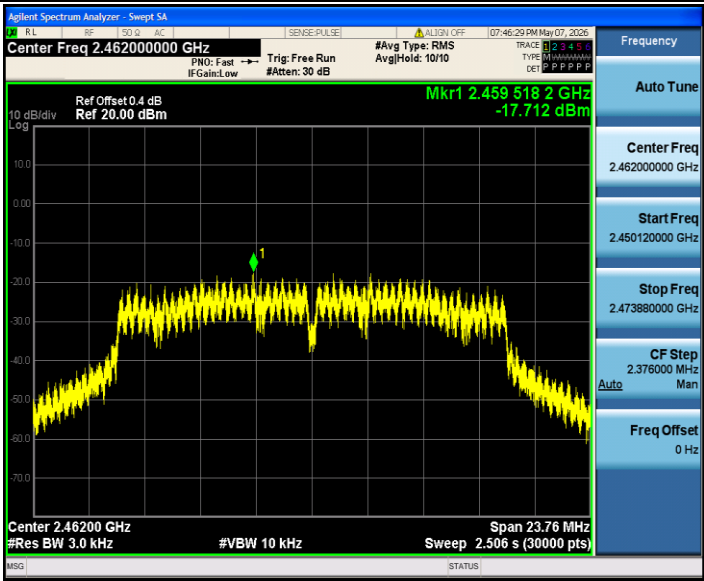
11G_Ant1_2412



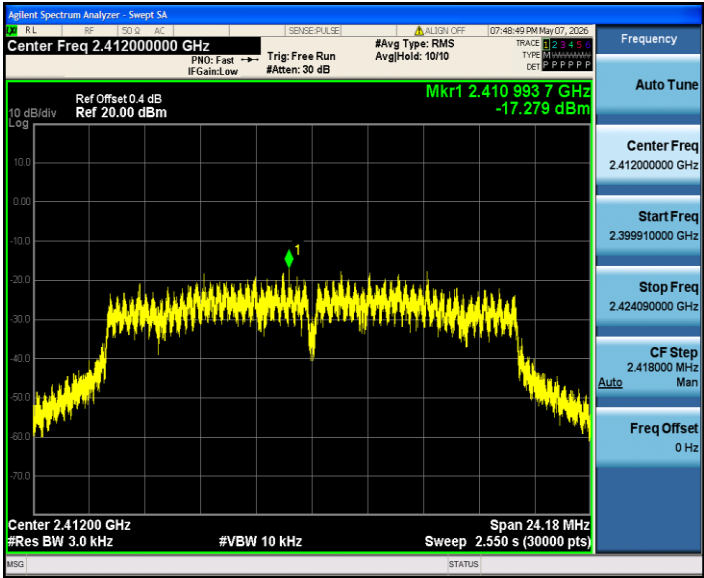
11G_Ant1_2437



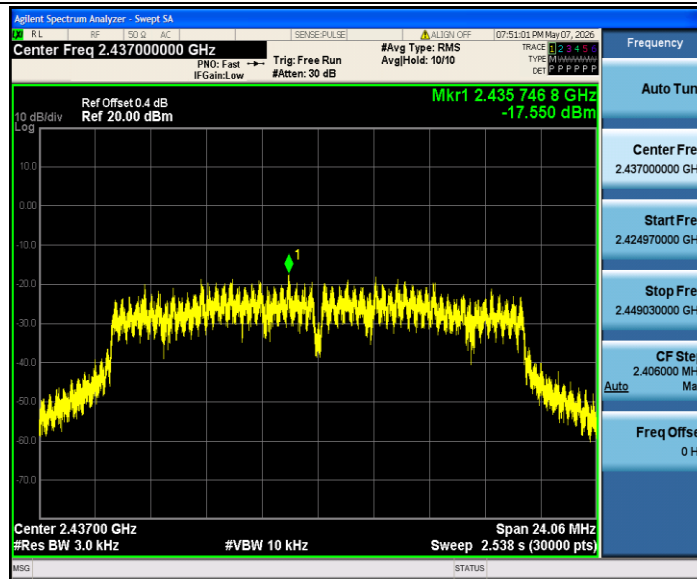
11G_Ant1_2462



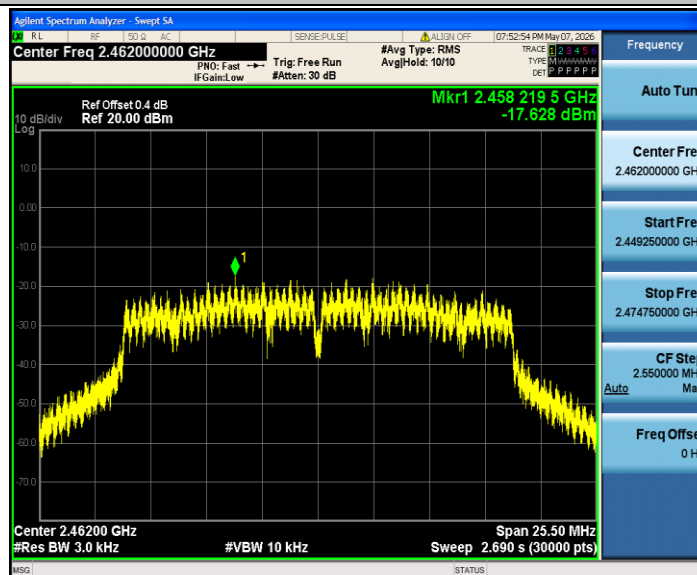
11N20SISO_Ant1_2412



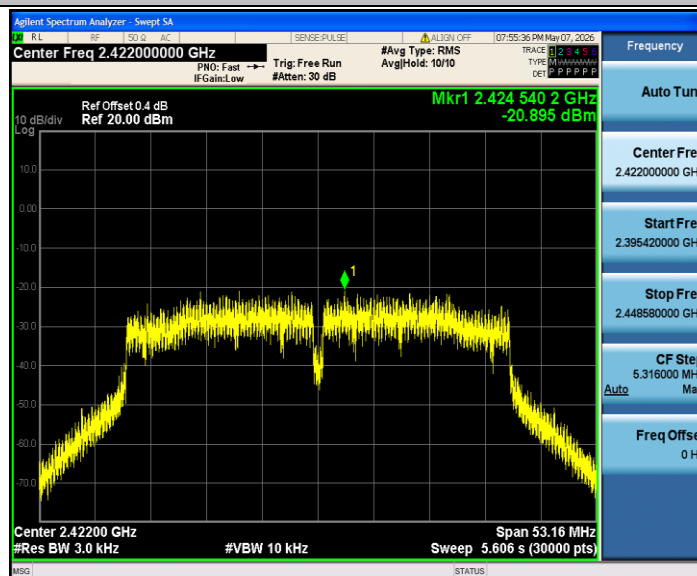
11N20SISO_Ant1_2437



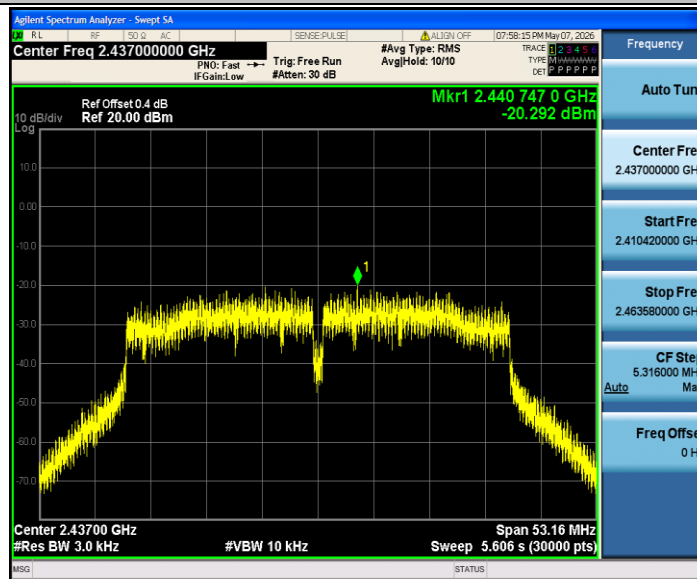
11N20SISO_Ant1_2462



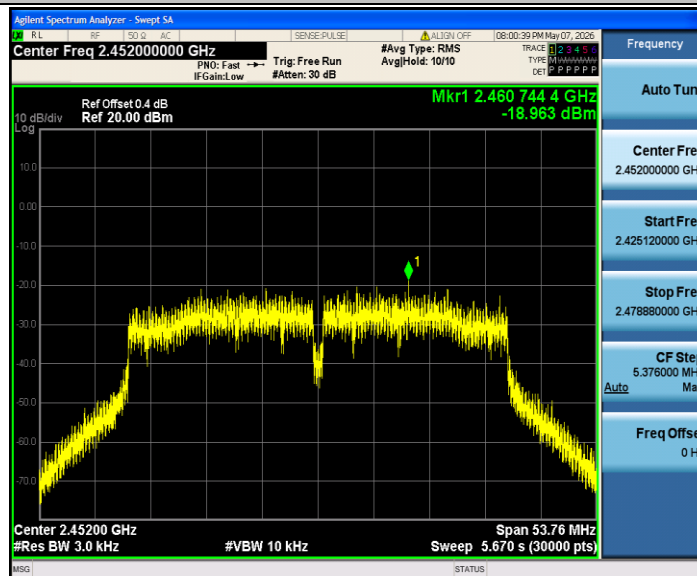
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

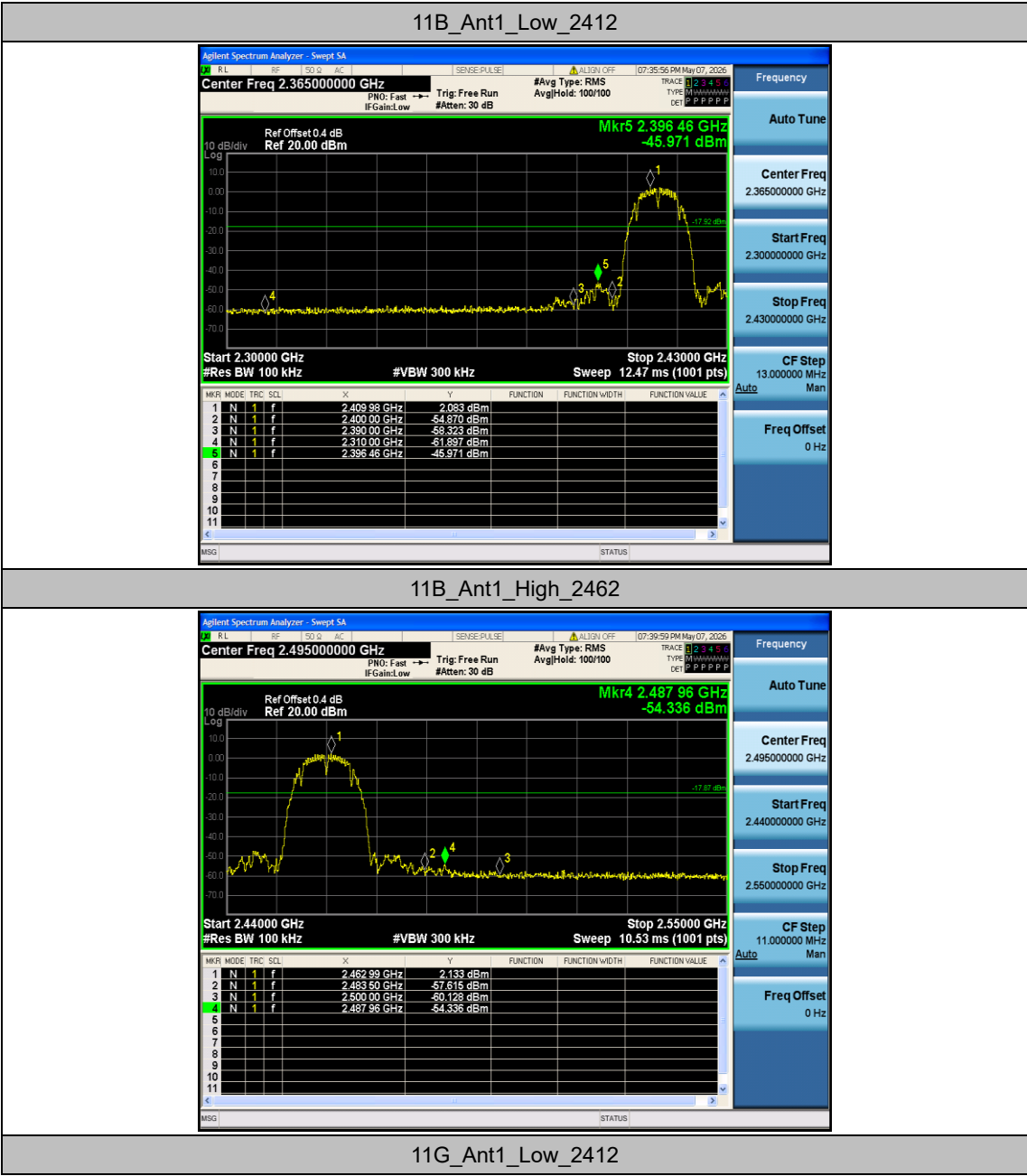


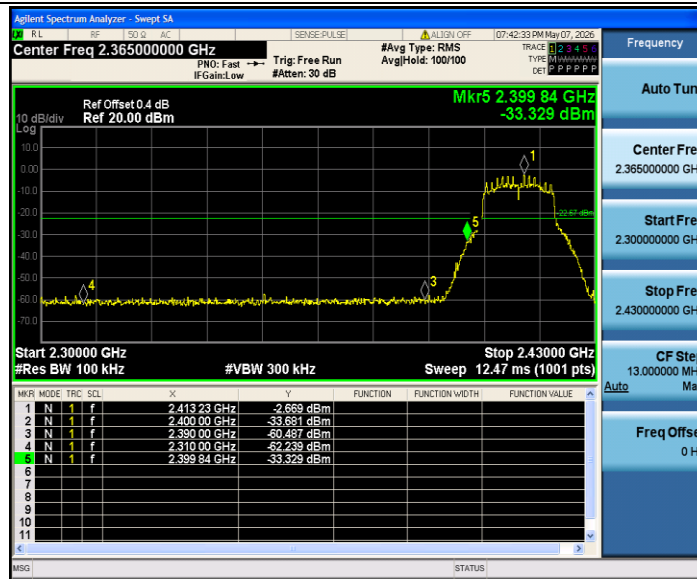
Appendix E: Band edge measurements

Test Result

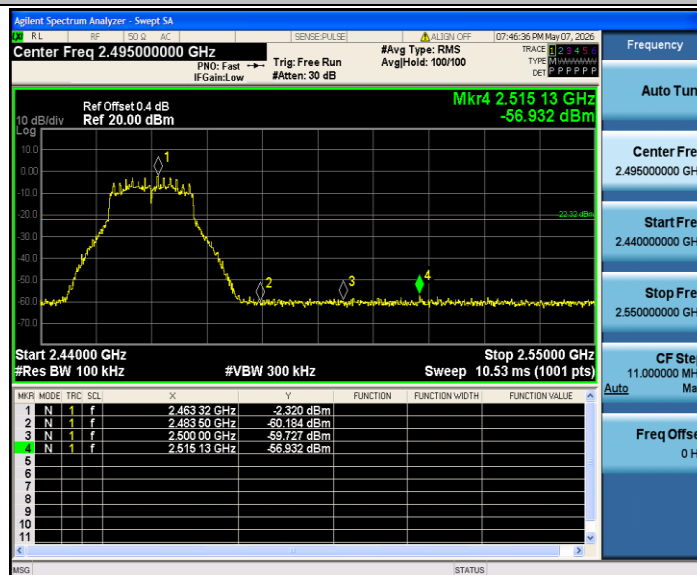
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.08	-45.97	≤-17.92	PASS
		High	2462	2.13	-54.34	≤-17.87	PASS
11G	Ant1	Low	2412	-2.67	-33.33	≤-22.67	PASS
		High	2462	-2.32	-56.93	≤-22.32	PASS
11N20SISO	Ant1	Low	2412	-2.82	-33.41	≤-22.82	PASS
		High	2462	-2.40	-57.87	≤-22.4	PASS
11N40SISO	Ant1	Low	2422	-6.06	-34.13	≤-26.06	PASS
		High	2452	-5.81	-57.84	≤-25.81	PASS

Test Graphs

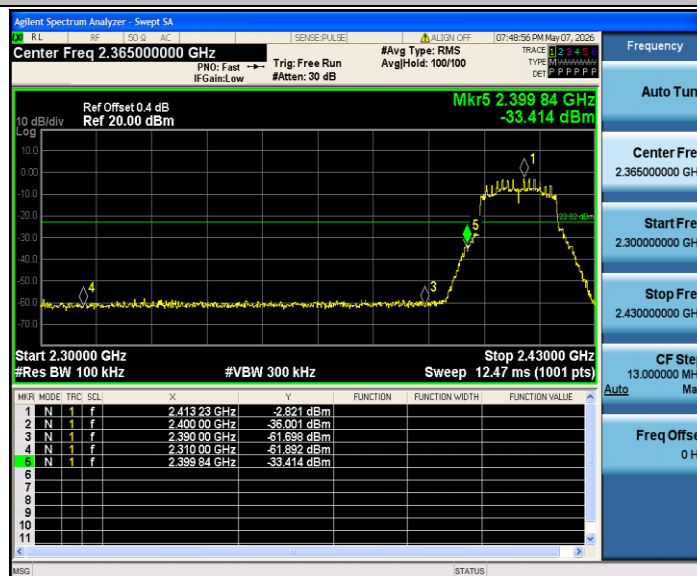




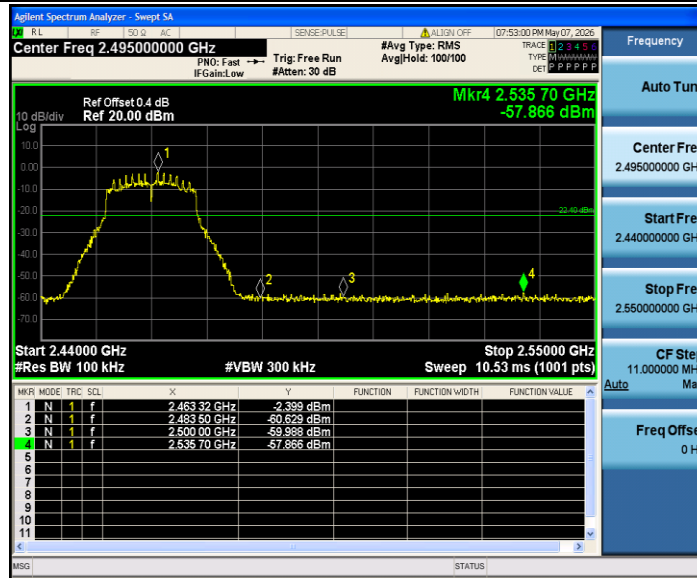
11G_Ant1_High_2462



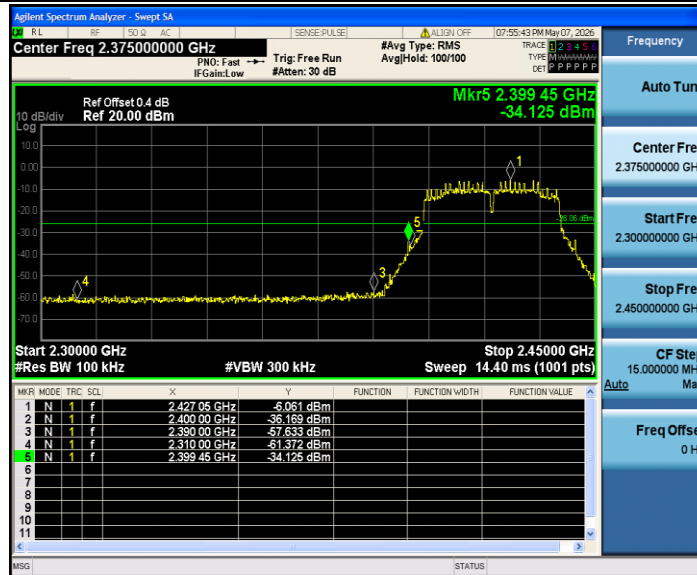
11N20SISO_Ant1_Low_2412



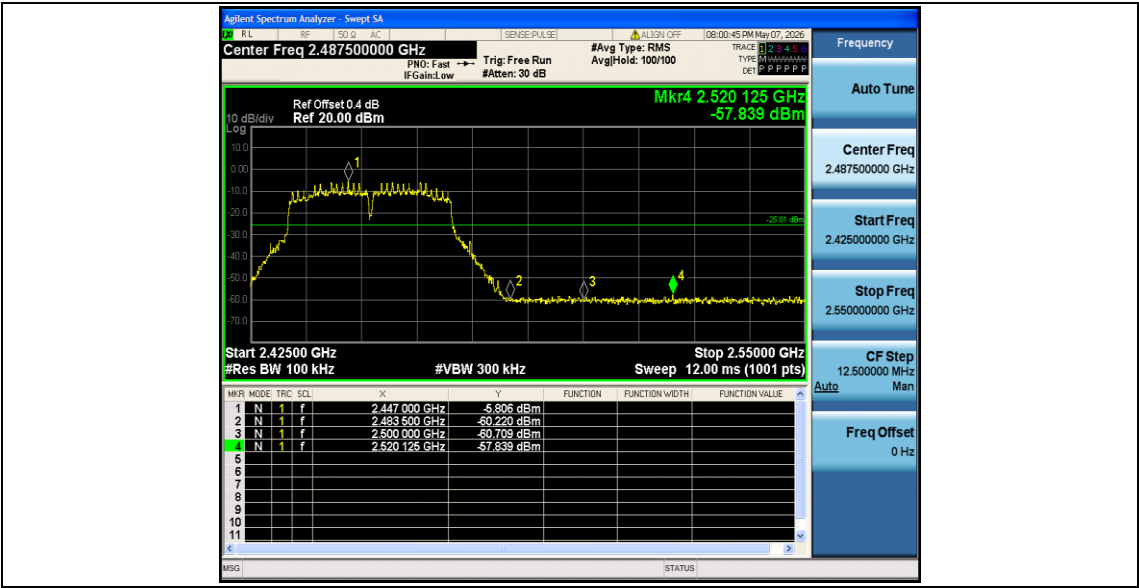
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

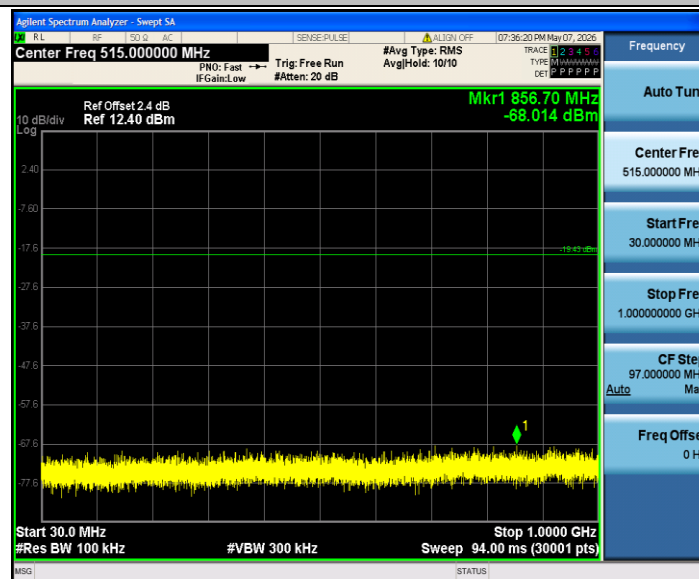
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.57	0.57	---	PASS
			30~1000	0.57	-68.01	≤-19.43	PASS
			1000~26500	0.57	-55.65	≤-19.43	PASS
		2437	Reference	2.34	2.34	---	PASS
			30~1000	2.34	-67.25	≤-17.66	PASS
			1000~26500	2.34	-55.32	≤-17.66	PASS
		2462	Reference	1.88	1.88	---	PASS
			30~1000	1.88	-67.56	≤-18.12	PASS
			1000~26500	1.88	-54.58	≤-18.12	PASS
11G	Ant1	2412	Reference	-2.66	-2.66	---	PASS
			30~1000	-2.66	-68.1	≤-22.66	PASS
			1000~26500	-2.66	-56.03	≤-22.66	PASS
		2437	Reference	-3.13	-3.13	---	PASS
			30~1000	-3.13	-67.77	≤-23.13	PASS
			1000~26500	-3.13	-55.65	≤-23.13	PASS
		2462	Reference	-2.71	-2.71	---	PASS
			30~1000	-2.71	-66.99	≤-22.71	PASS
			1000~26500	-2.71	-55.79	≤-22.71	PASS
11N20SISO	Ant1	2412	Reference	-3.96	-3.96	---	PASS
			30~1000	-3.96	-67.66	≤-23.96	PASS
			1000~26500	-3.96	-55.7	≤-23.96	PASS
		2437	Reference	-2.66	-2.66	---	PASS
			30~1000	-2.66	-67.58	≤-22.66	PASS
			1000~26500	-2.66	-55.51	≤-22.66	PASS
		2462	Reference	-2.59	-2.59	---	PASS
			30~1000	-2.59	-67.92	≤-22.59	PASS
			1000~26500	-2.59	-55.23	≤-22.59	PASS
11N40SISO	Ant1	2422	Reference	-6.06	-6.06	---	PASS
			30~1000	-6.06	-67.73	≤-26.06	PASS
			1000~26500	-6.06	-55.76	≤-26.06	PASS
		2437	Reference	-5.78	-5.78	---	PASS
			30~1000	-5.78	-67.78	≤-25.78	PASS
			1000~26500	-5.78	-55.85	≤-25.78	PASS
		2452	Reference	-5.91	-5.91	---	PASS
			30~1000	-5.91	-67.85	≤-25.91	PASS
			1000~26500	-5.91	-55.6	≤-25.91	PASS

Test Graphs

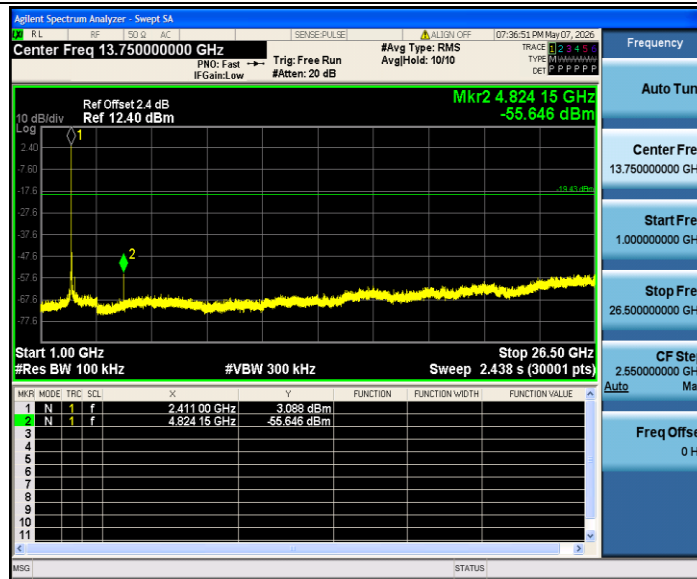
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



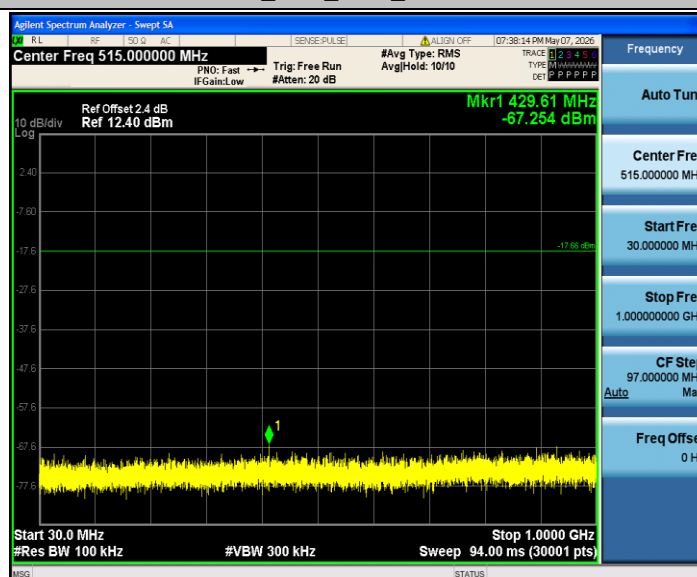
11B_Ant1_2412_1000~26500



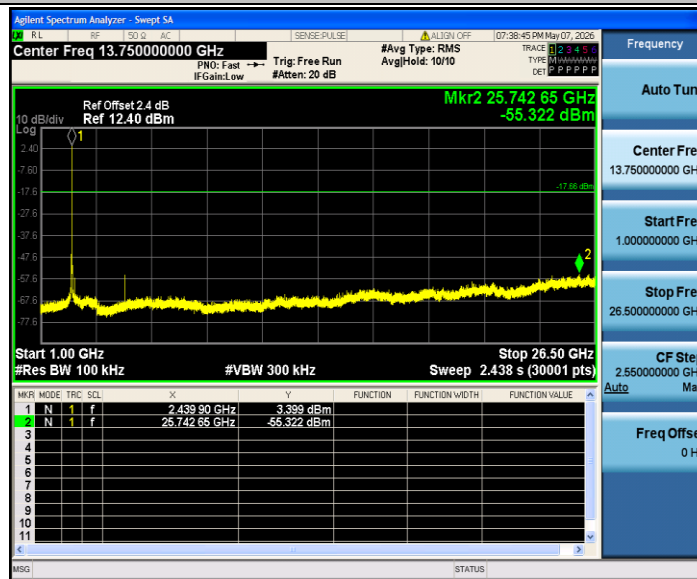
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



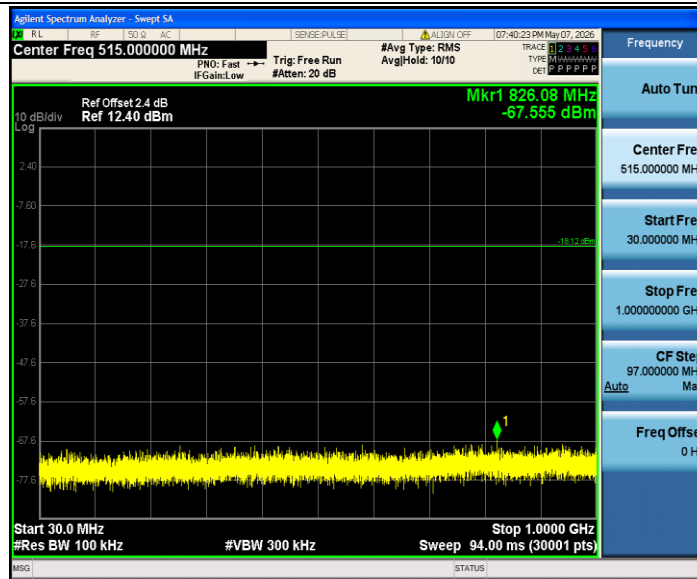
11B_Ant1_2437_1000~26500



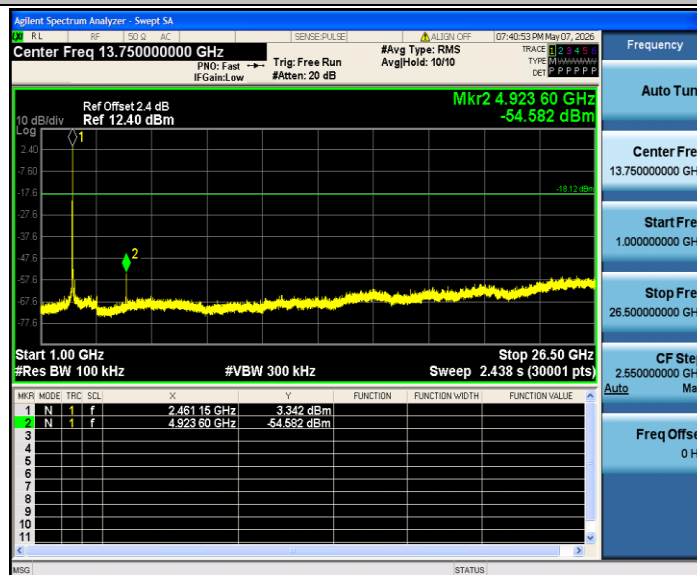
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



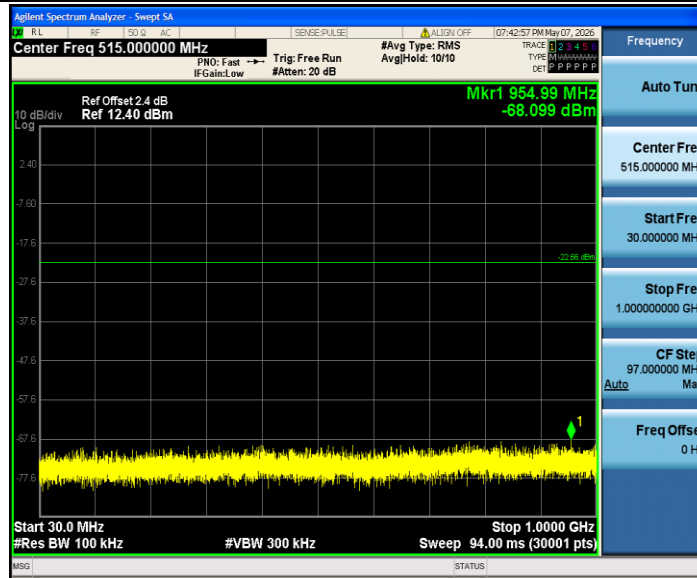
11B_Ant1_2462_1000~26500



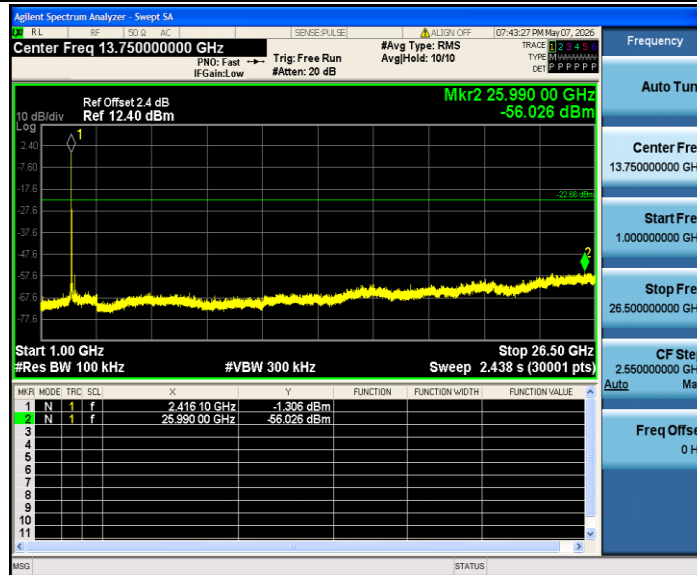
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference