

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2AGQ7W0802P

Company : Beijing Winner Microelectronics Co., Ltd.

EUT : WIFI Module

Model Number : W0802P

Report No. : CTA26050801501

Reviewed By : Eric Wang

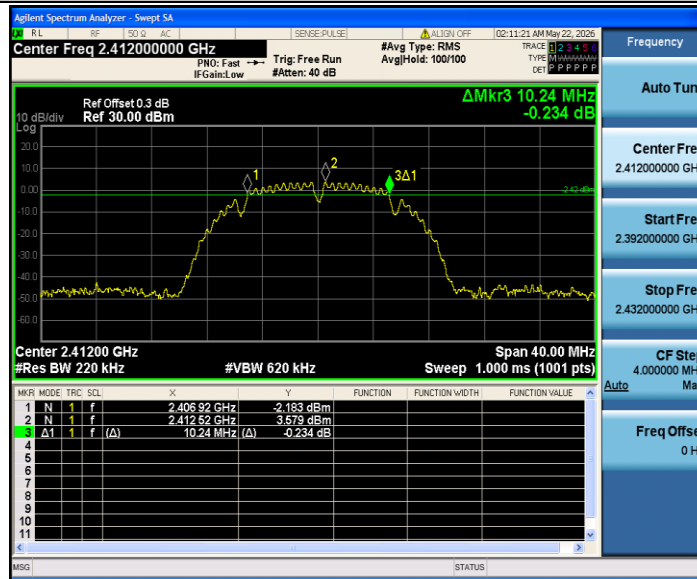
Appendix A: DTS Bandwidth

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	2431.960	2442.160	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.640	2404.120	2419.760	0.5	PASS
		2437	15.760	2429.040	2444.800	0.5	PASS
		2462	15.920	2454.080	2470.000	0.5	PASS
11N20SISO	Ant1	2412	16.520	2404.080	2420.600	0.5	PASS
		2437	16.320	2429.040	2445.360	0.5	PASS
		2462	16.320	2453.320	2469.640	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.480	2440.080	0.5	PASS
		2437	35.600	2419.240	2454.840	0.5	PASS
		2452	35.360	2434.480	2469.840	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437





11N20SISO_Ant1_2462



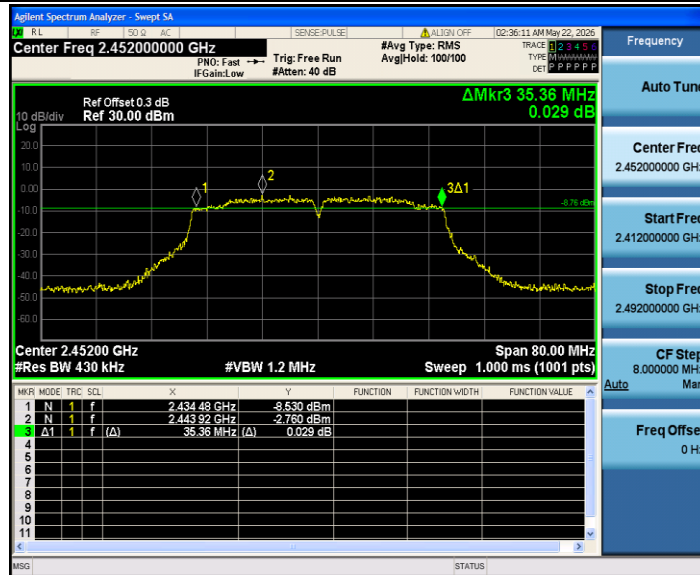
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



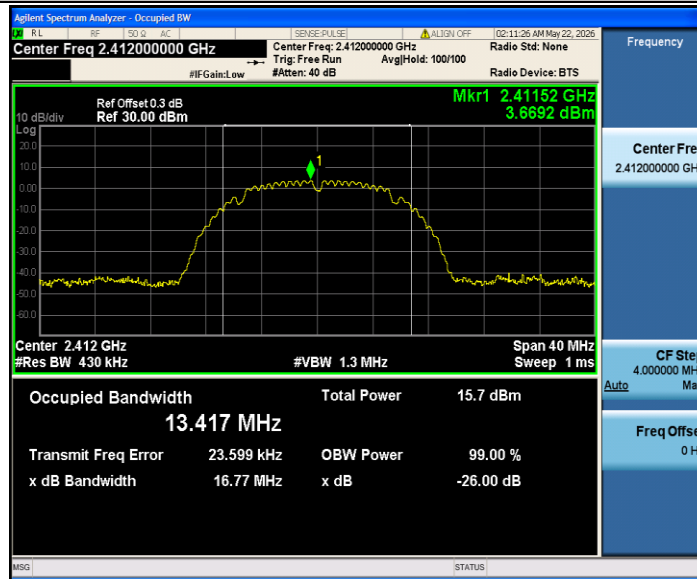
Appendix B: Occupied Channel Bandwidth

Test Result

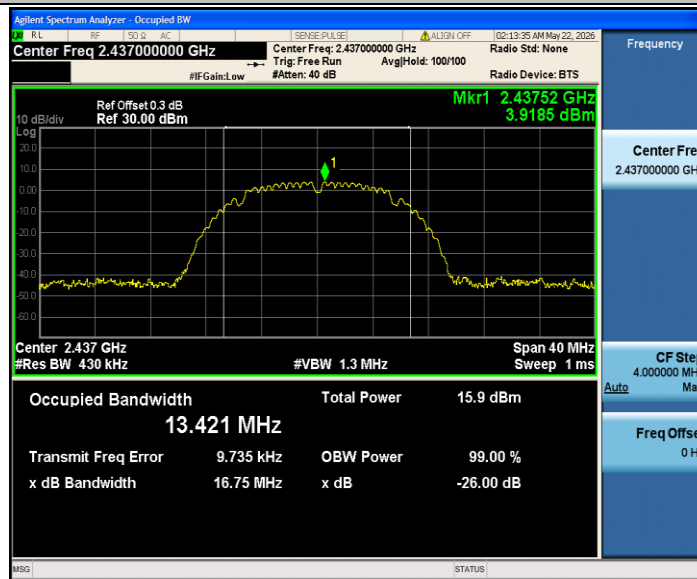
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.417	2405.3151	2418.7321	---	---
		2437	13.421	2430.2992	2443.7202	---	---
		2462	13.428	2455.2980	2468.7260	---	---
11G	Ant1	2412	16.851	2403.5779	2420.4289	---	---
		2437	16.800	2428.6656	2445.4656	---	---
		2462	16.800	2453.6202	2470.4202	---	---
11N20SISO	Ant1	2412	17.883	2403.0873	2420.9703	---	---
		2437	17.856	2428.0685	2445.9245	---	---
		2462	17.854	2453.1098	2470.9638	---	---
11N40SISO	Ant1	2422	36.040	2404.0744	2440.1144	---	---
		2437	36.051	2419.0811	2455.1321	---	---
		2452	36.067	2434.1050	2470.1720	---	---

Test Graphs

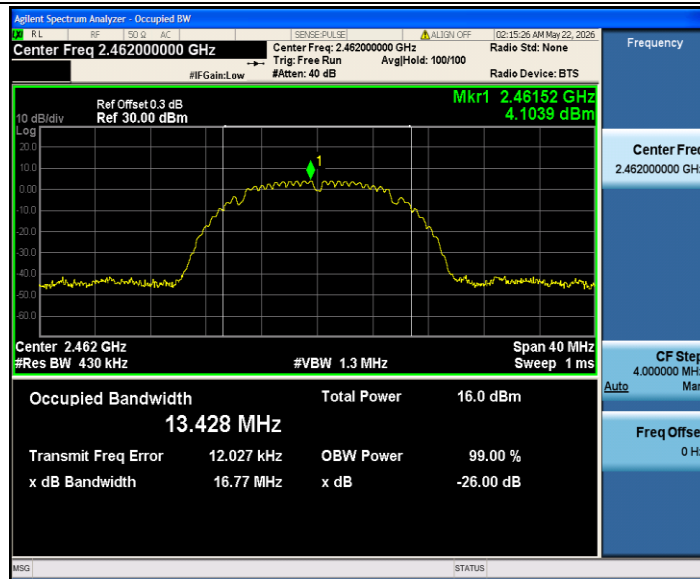
11B_Ant1_2412



11B_Ant1_2437



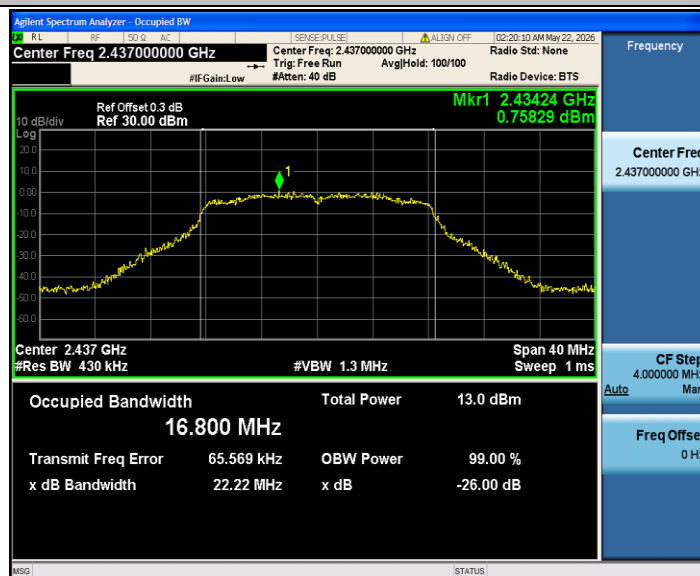
11B_Ant1_2462



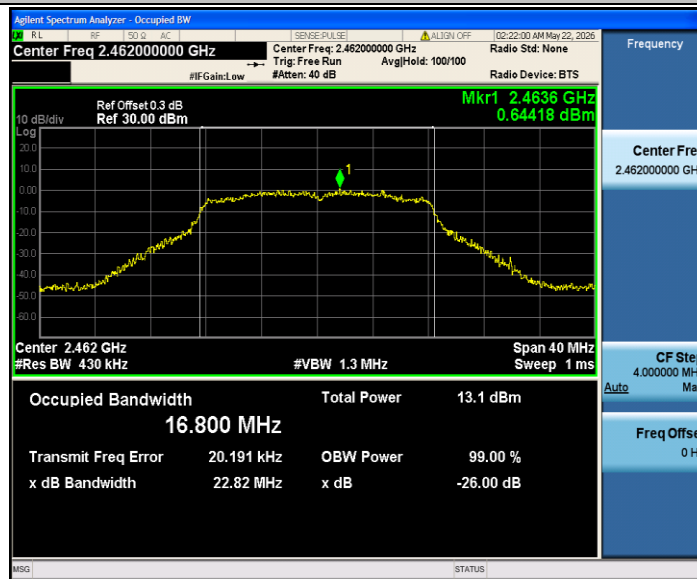
11G_Ant1_2412



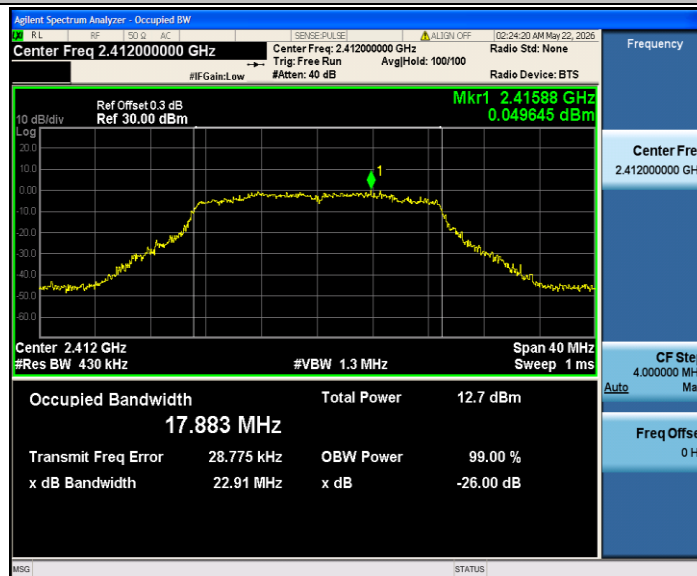
11G_Ant1_2437



11G_Ant1_2462



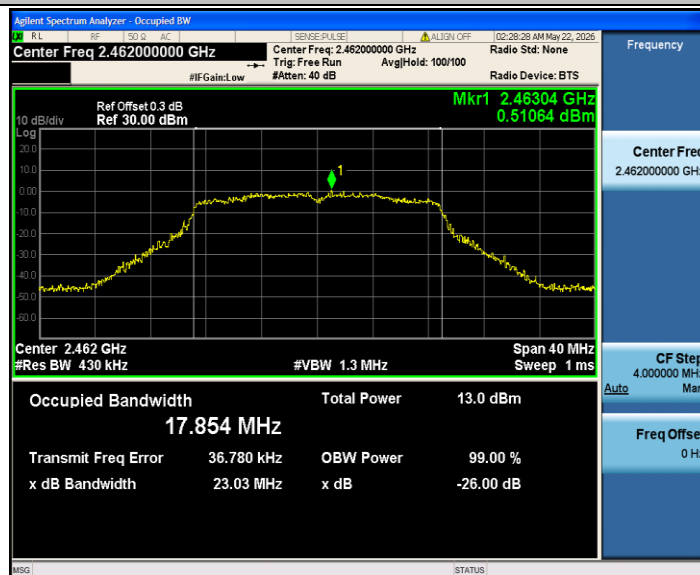
11N20SISO_Ant1_2412



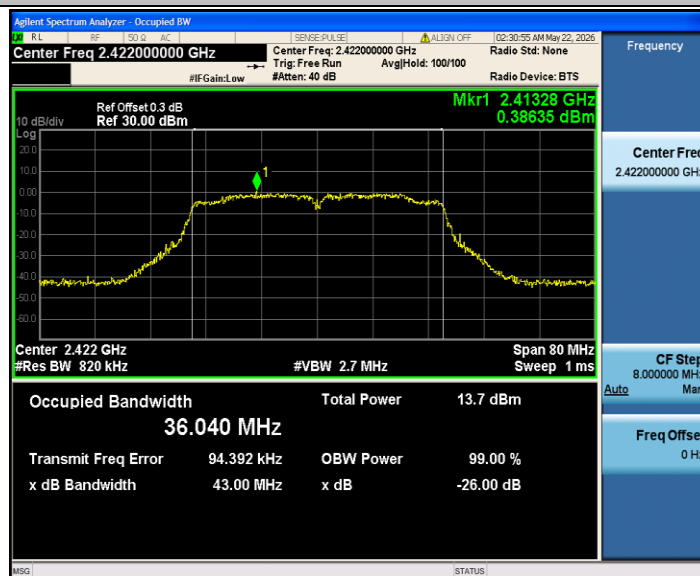
11N20SISO_Ant1_2437



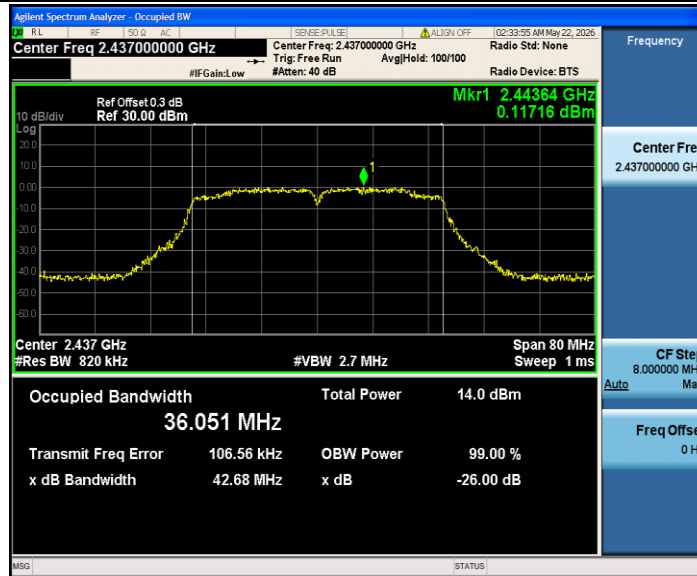
11N20SISO_Ant1_2462



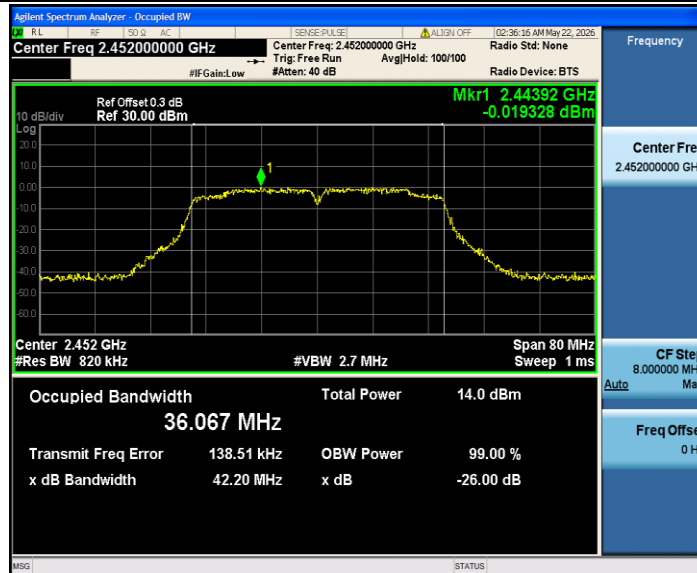
11N40SISO_Ant1_2422



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	15.34	≤30.00	PASS
		2437	15.47	≤30.00	PASS
		2462	15.57	≤30.00	PASS
11G	Ant1	2412	13.62	≤30.00	PASS
		2437	13.86	≤30.00	PASS
		2462	14.00	≤30.00	PASS
11N20SISO	Ant1	2412	13.47	≤30.00	PASS
		2437	13.67	≤30.00	PASS
		2462	13.80	≤30.00	PASS
11N40SISO	Ant1	2422	13.85	≤30.00	PASS
		2437	14.16	≤30.00	PASS
		2452	14.23	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

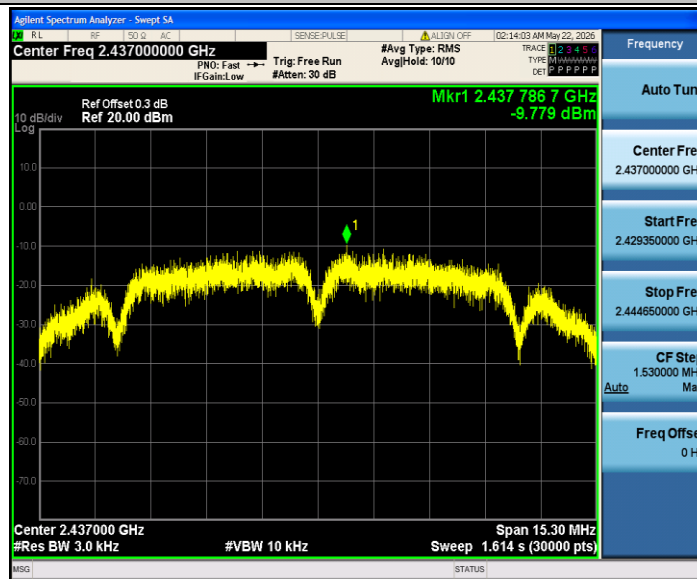
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.88	≤8.00	PASS
		2437	-9.78	≤8.00	PASS
		2462	-10.12	≤8.00	PASS
11G	Ant1	2412	-18.32	≤8.00	PASS
		2437	-17.41	≤8.00	PASS
		2462	-17.78	≤8.00	PASS
11N20SISO	Ant1	2412	-17.27	≤8.00	PASS
		2437	-17.88	≤8.00	PASS
		2462	-16.98	≤8.00	PASS
11N40SISO	Ant1	2422	-20.52	≤8.00	PASS
		2437	-20.69	≤8.00	PASS
		2452	-19.94	≤8.00	PASS

Test Graphs

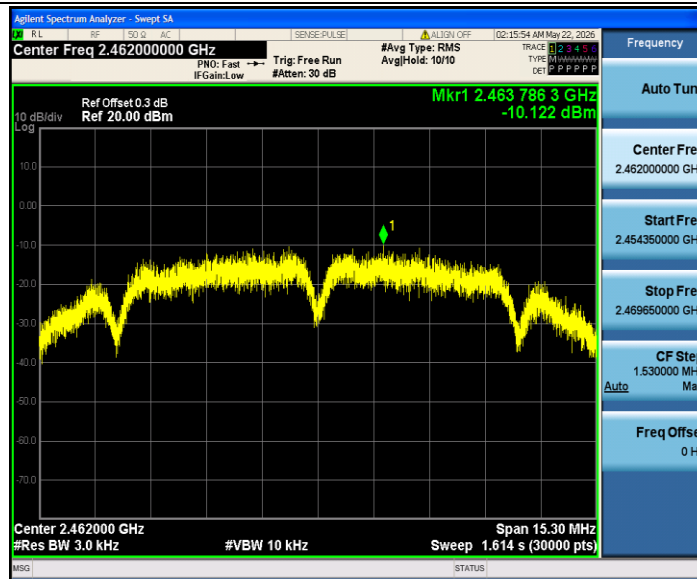
11B_Ant1_2412



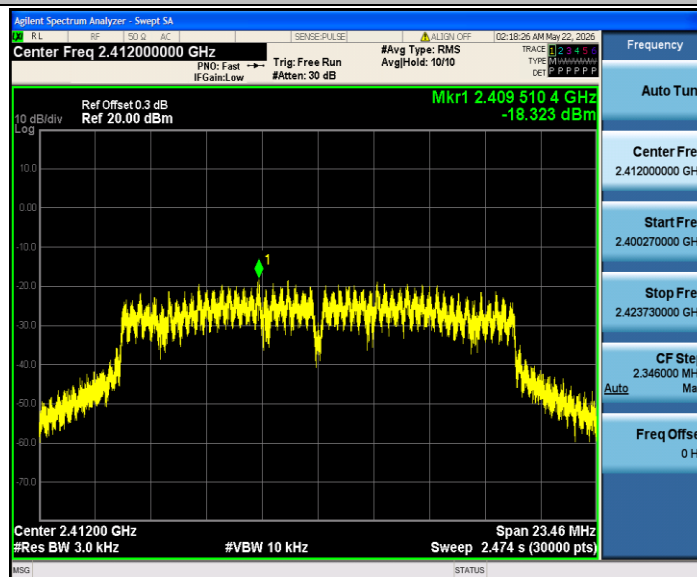
11B_Ant1_2437



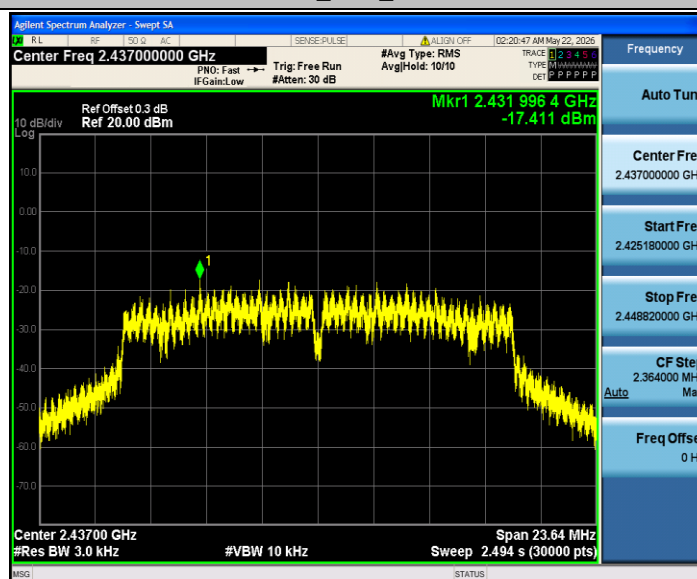
11B_Ant1_2462



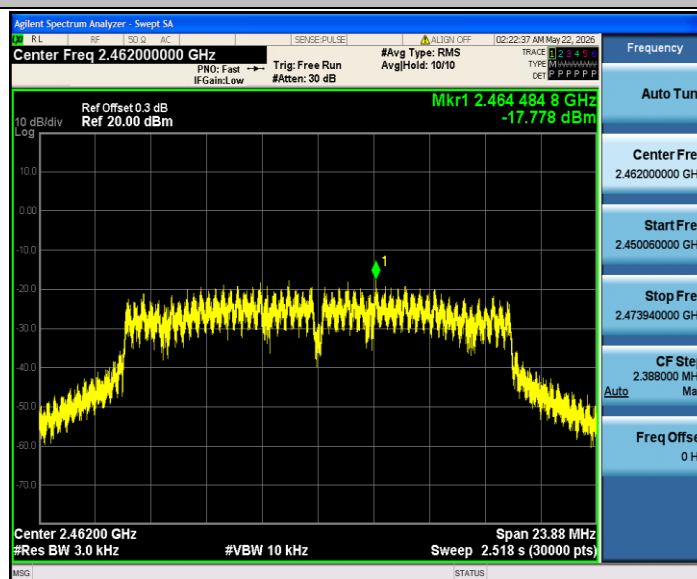
11G_Ant1_2412



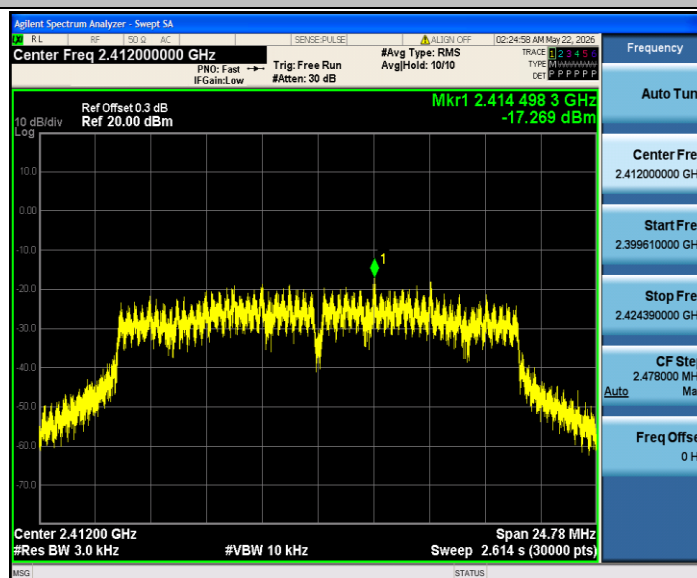
11G_Ant1_2437



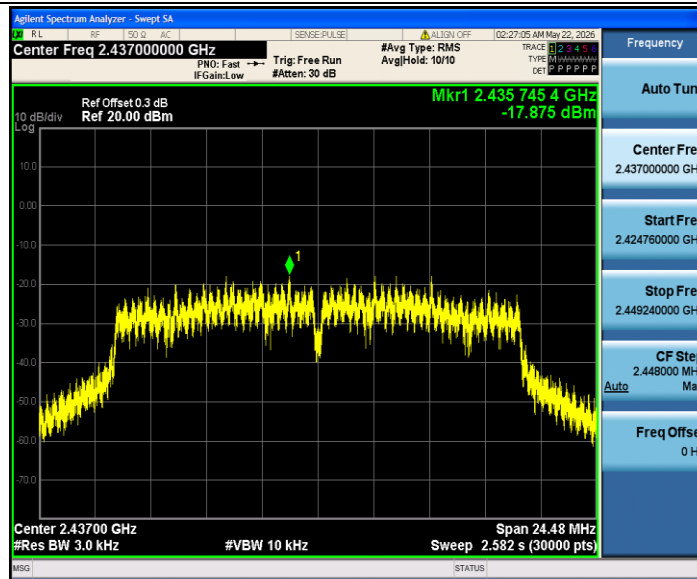
11G_Ant1_2462



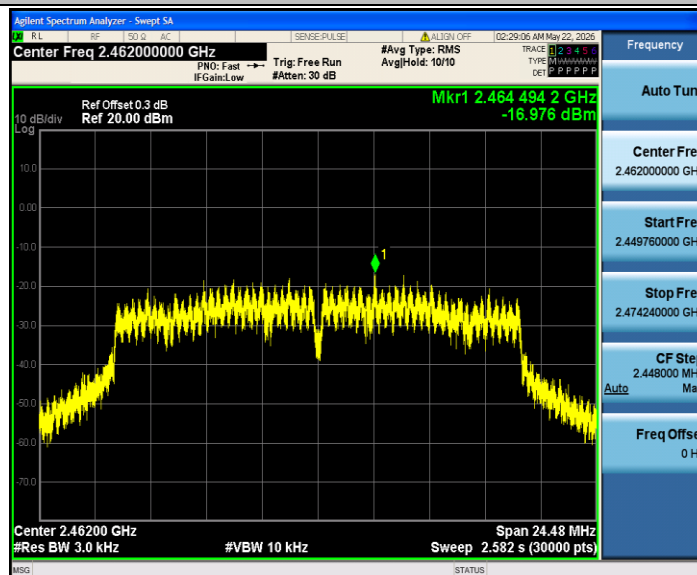
11N20SISO_Ant1_2412



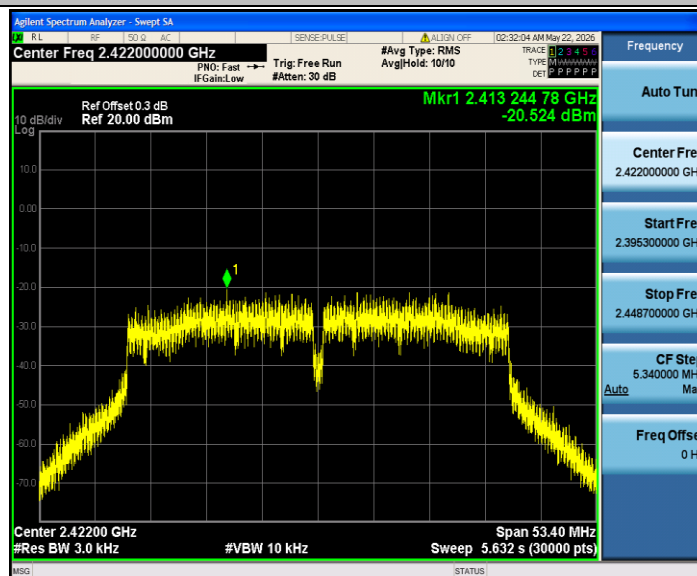
11N20SISO_Ant1_2437



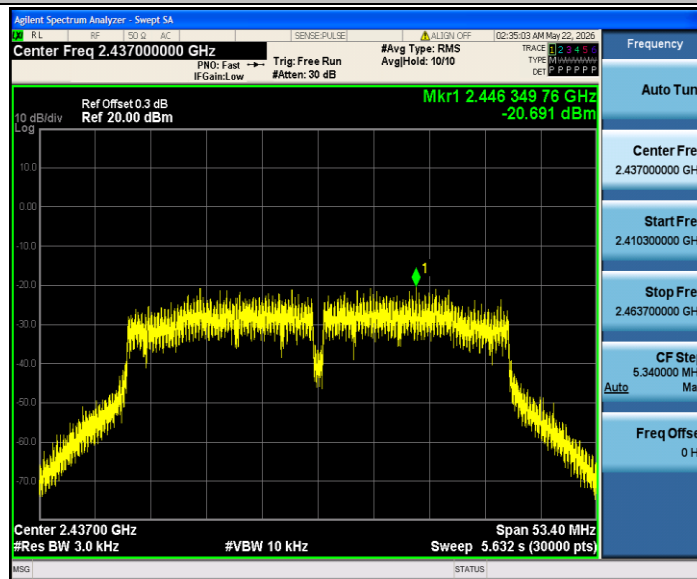
11N20SISO_Ant1_2462



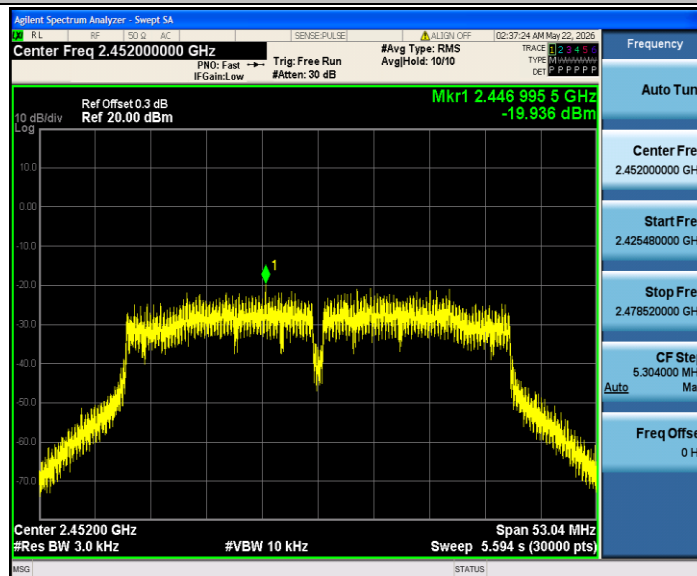
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



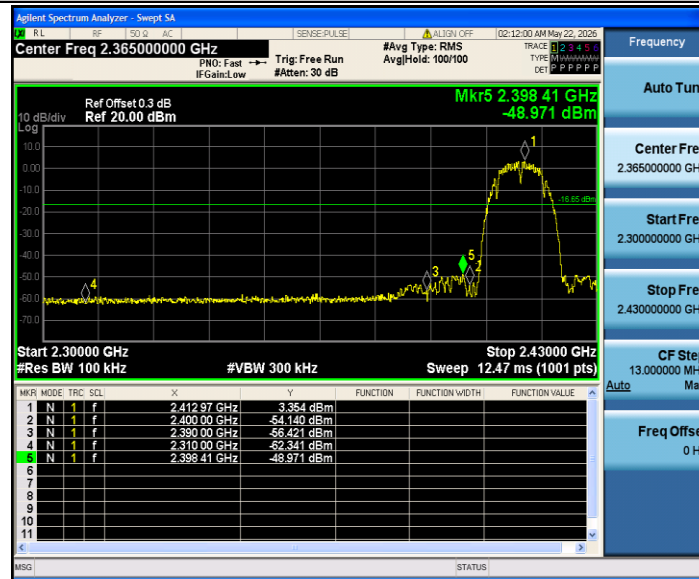
Appendix E: Band edge measurements

Test Result

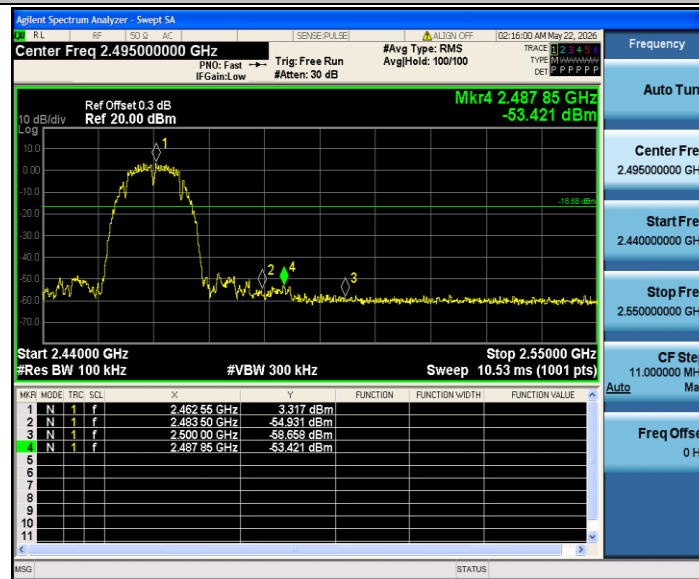
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.35	-48.97	≤-16.65	PASS
		High	2462	3.32	-53.42	≤-16.68	PASS
11G	Ant1	Low	2412	-3.15	-33.8	≤-23.15	PASS
		High	2462	-2.45	-57.83	≤-22.45	PASS
11N20SISO	Ant1	Low	2412	-2.88	-34.52	≤-22.88	PASS
		High	2462	-2.48	-58.1	≤-22.48	PASS
11N40SISO	Ant1	Low	2422	-6.15	-33.88	≤-26.15	PASS
		High	2452	-5.91	-57.21	≤-25.91	PASS

Test Graphs

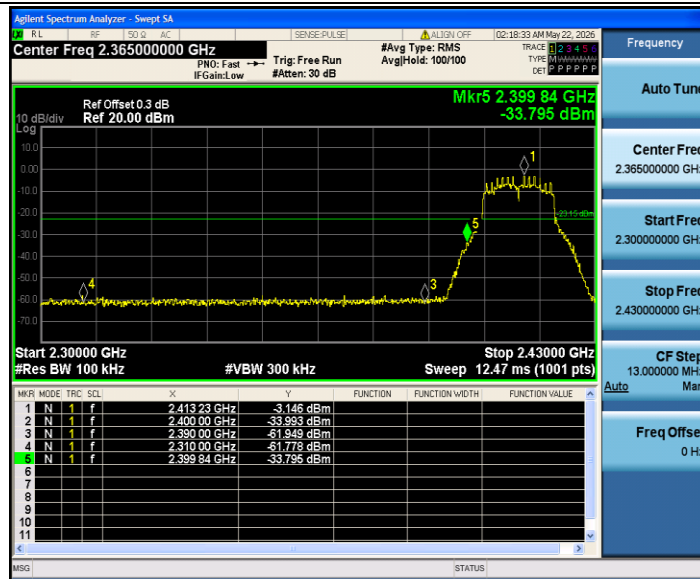
11B_Ant1_Low_2412



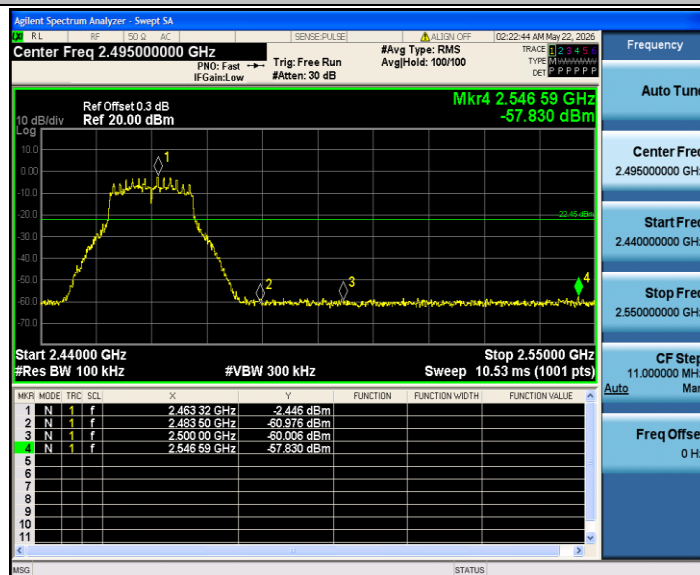
11B_Ant1_High_2462



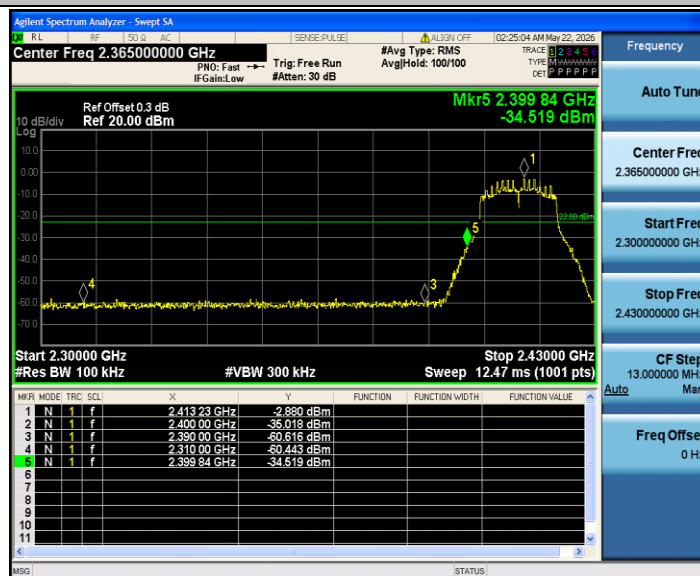
11G_Ant1_Low_2412



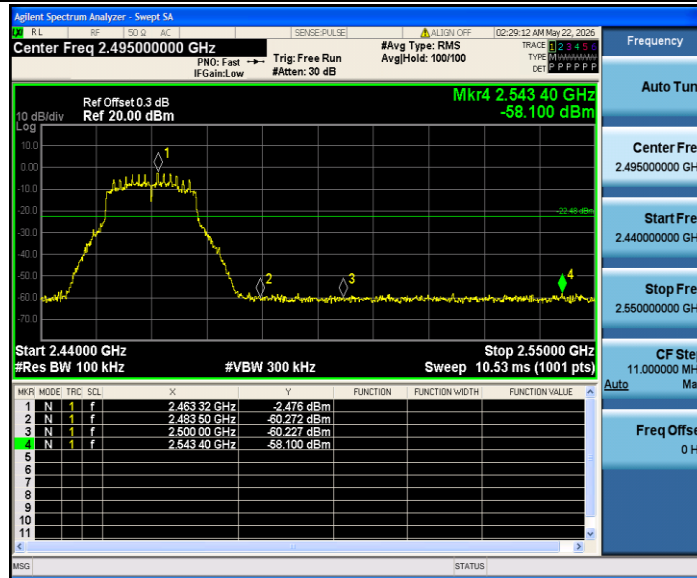
11G_Ant1_High_2462



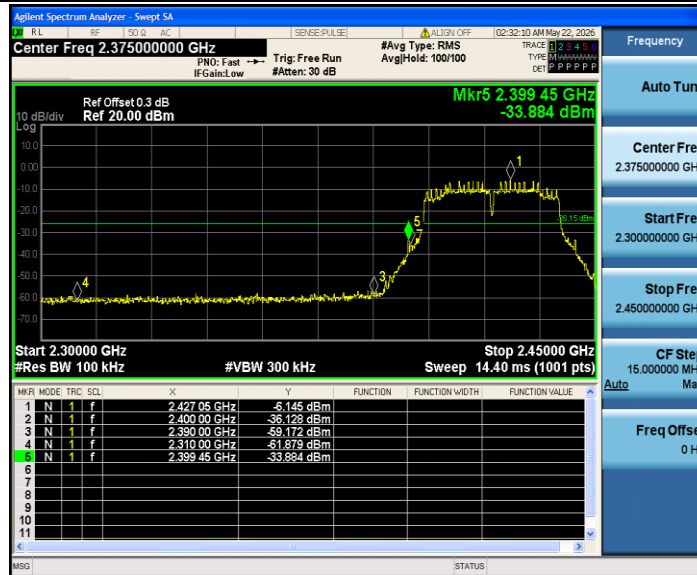
11N20SISO_Ant1_Low_2412



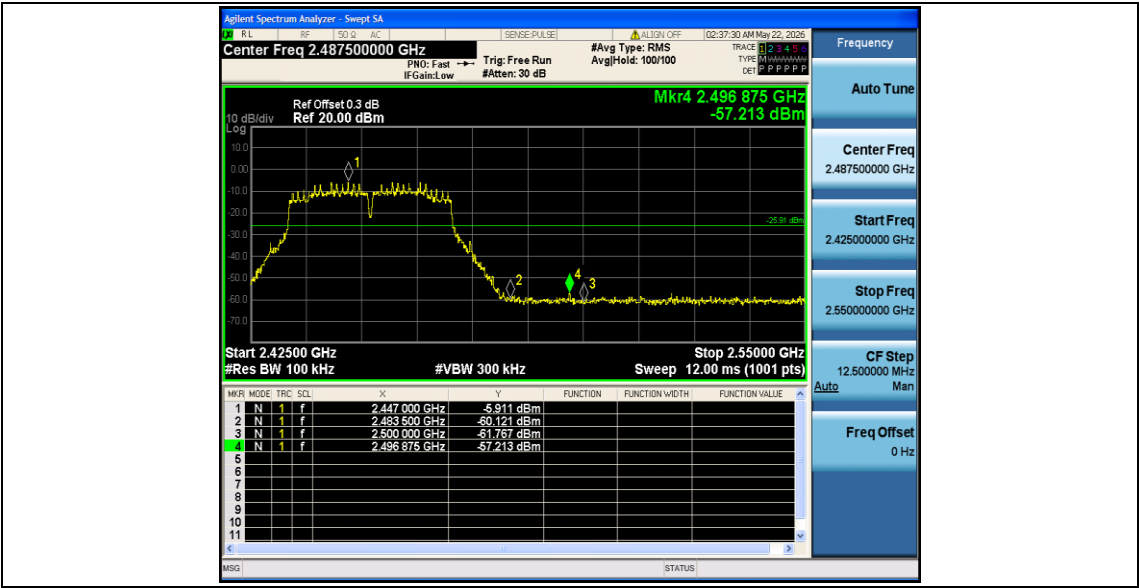
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

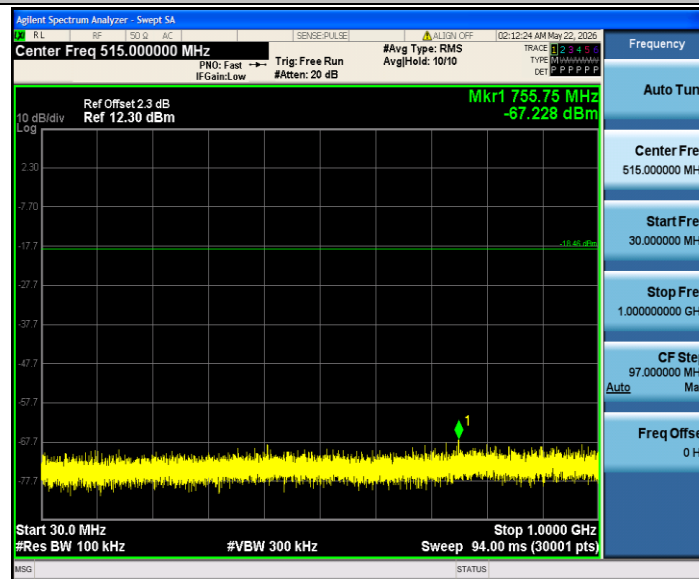
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.54	1.54	---	PASS
			30~1000	1.54	-67.23	≤-18.46	PASS
			1000~26500	1.54	-53.92	≤-18.46	PASS
		2437	Reference	2.95	2.95	---	PASS
			30~1000	2.95	-68.21	≤-17.05	PASS
			1000~26500	2.95	-53.46	≤-17.05	PASS
		2462	Reference	3.19	3.19	---	PASS
			30~1000	3.19	-67.32	≤-16.81	PASS
			1000~26500	3.19	-52.73	≤-16.81	PASS
11G	Ant1	2412	Reference	-4.00	-4.00	---	PASS
			30~1000	-4.00	-67.53	≤-24	PASS
			1000~26500	-4.00	-55.43	≤-24	PASS
		2437	Reference	-3.10	-3.10	---	PASS
			30~1000	-3.10	-68.05	≤-23.1	PASS
			1000~26500	-3.10	-55.33	≤-23.1	PASS
		2462	Reference	-3.24	-3.24	---	PASS
			30~1000	-3.24	-68.05	≤-23.24	PASS
			1000~26500	-3.24	-55.26	≤-23.24	PASS
11N20SISO	Ant1	2412	Reference	-2.98	-2.98	---	PASS
			30~1000	-2.98	-68.32	≤-22.98	PASS
			1000~26500	-2.98	-55.4	≤-22.98	PASS
		2437	Reference	-3.00	-3.00	---	PASS
			30~1000	-3.00	-68.25	≤-23	PASS
			1000~26500	-3.00	-56.09	≤-23	PASS
		2462	Reference	-3.16	-3.16	---	PASS
			30~1000	-3.16	-67.84	≤-23.16	PASS
			1000~26500	-3.16	-56.06	≤-23.16	PASS
11N40SISO	Ant1	2422	Reference	-7.00	-7.00	---	PASS
			30~1000	-7.00	-68.11	≤-27	PASS
			1000~26500	-7.00	-55.8	≤-27	PASS
		2437	Reference	-6.03	-6.03	---	PASS
			30~1000	-6.03	-68.64	≤-26.03	PASS
			1000~26500	-6.03	-55.14	≤-26.03	PASS
		2452	Reference	-6.08	-6.08	---	PASS
			30~1000	-6.08	-67.58	≤-26.08	PASS
			1000~26500	-6.08	-55.3	≤-26.08	PASS

Test Graphs

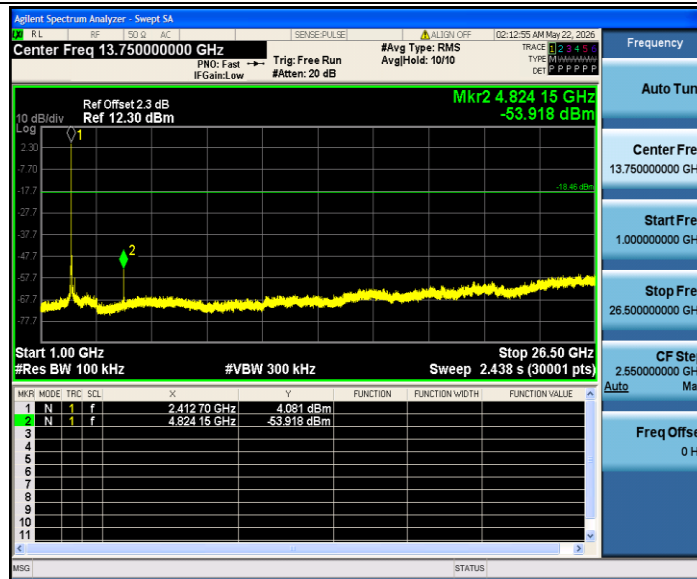
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



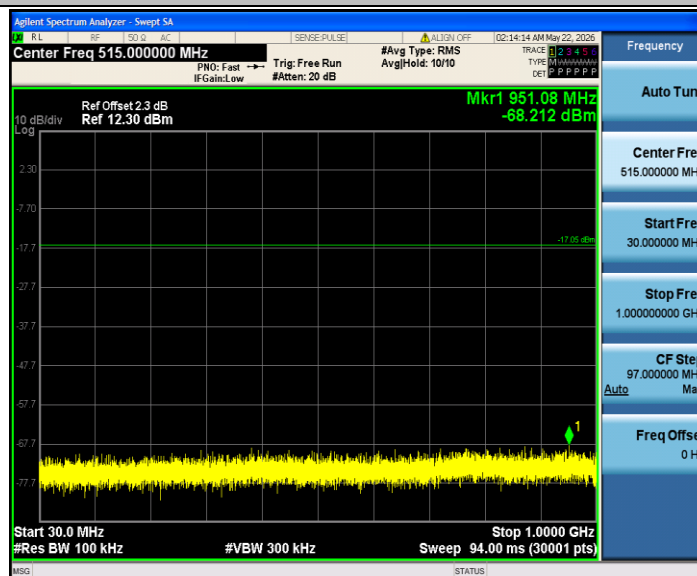
11B_Ant1_2412_1000~26500



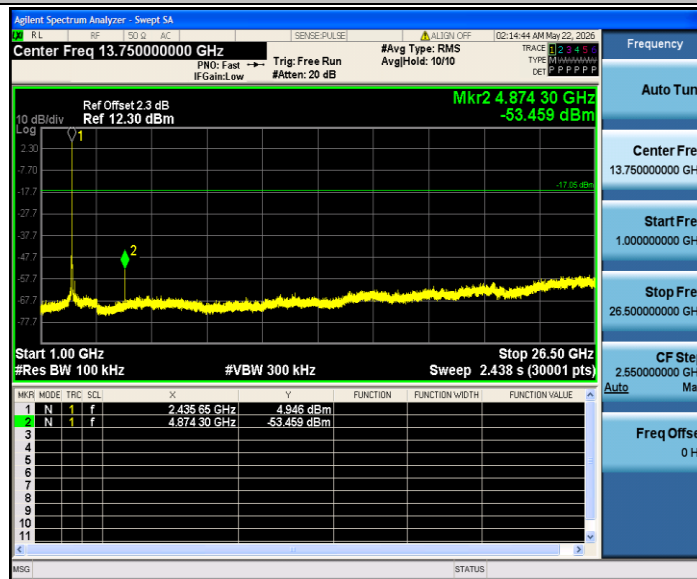
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



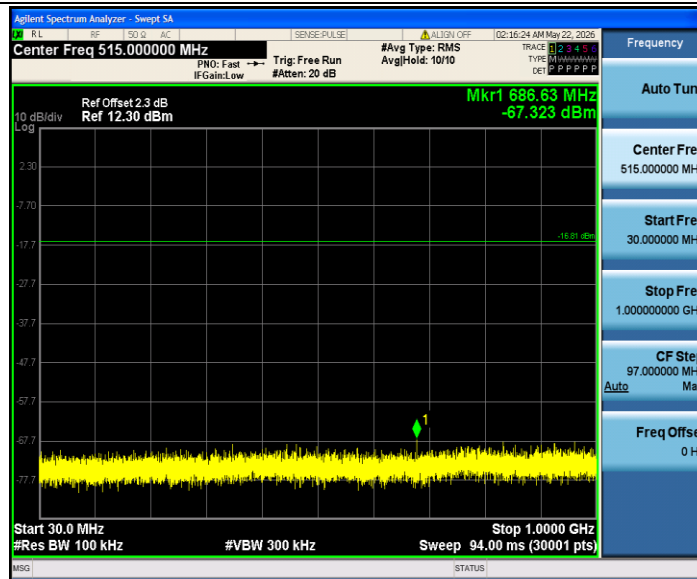
11B_Ant1_2437_1000~26500



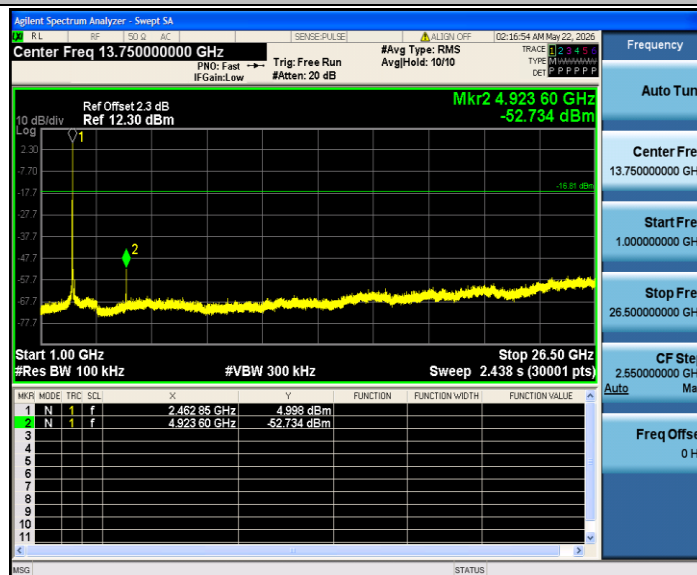
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



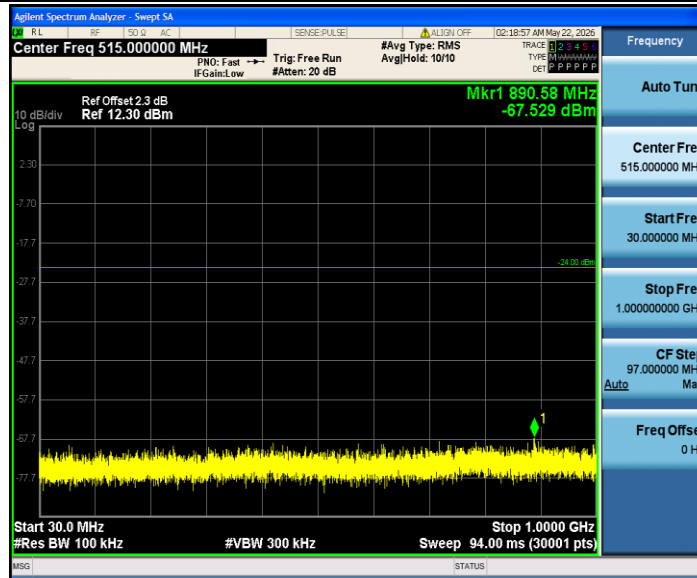
11B_Ant1_2462_1000~26500



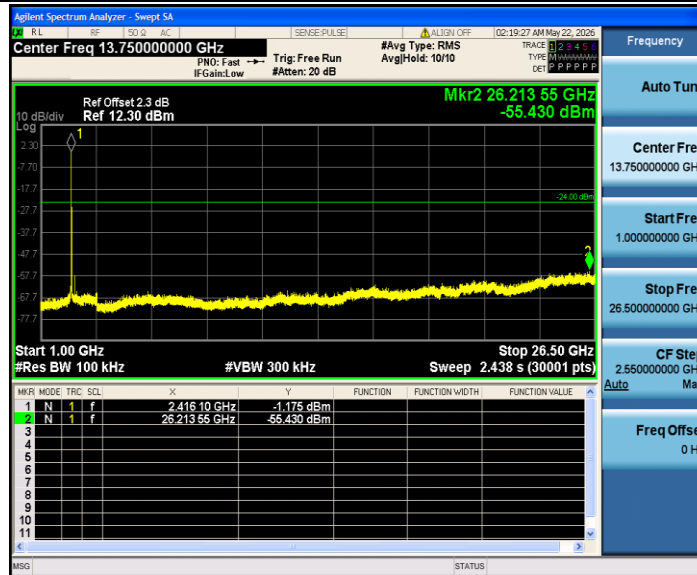
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



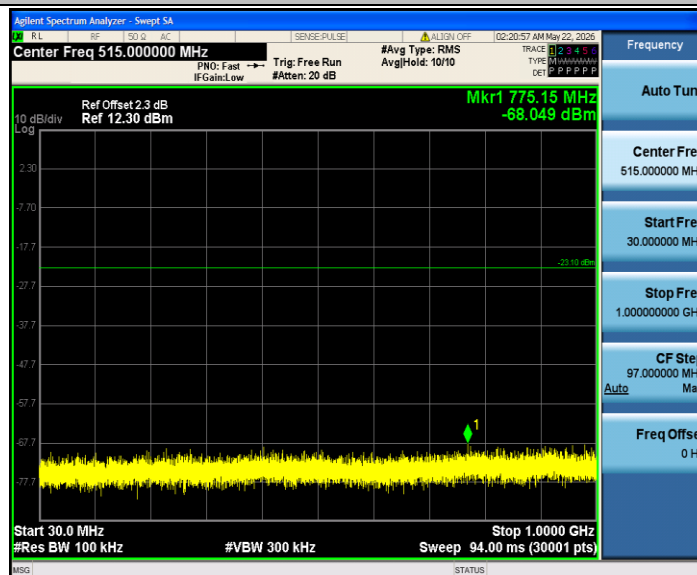
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



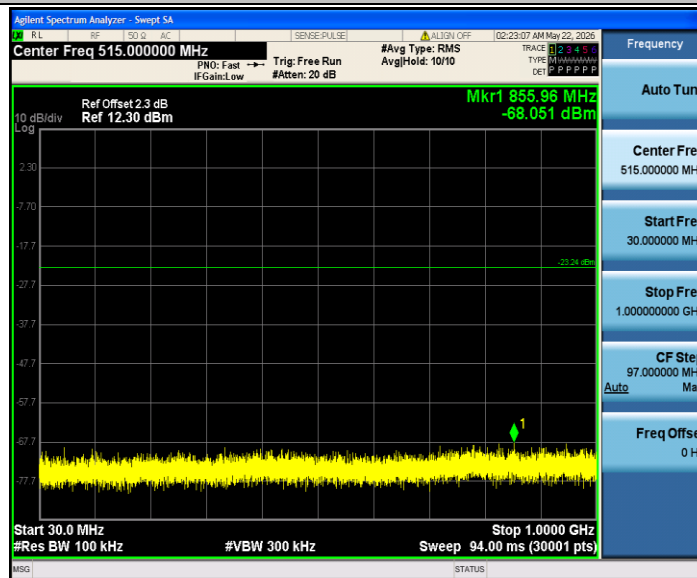
11G_Ant1_2437_1000~26500



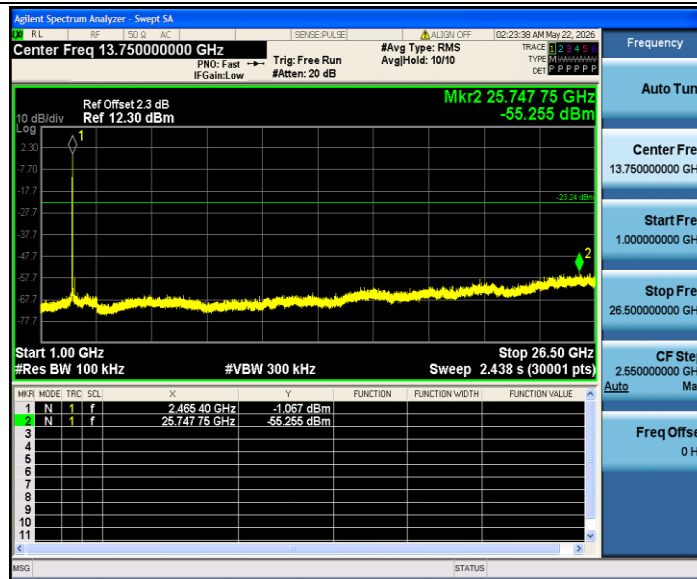
11G_Ant1_2462_0~Reference



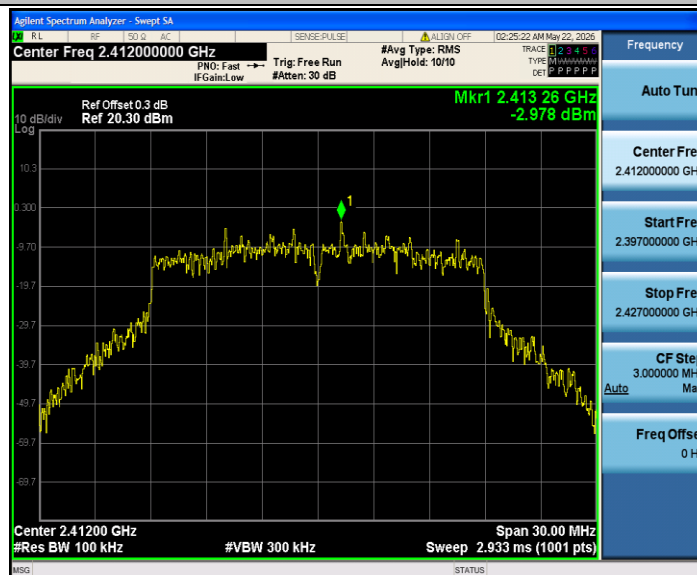
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

