

Appendix RF Test Data for 2.4GWIFI

Company: : TOXMATE S.A.C.

EUT : Smart Watch

Model Number : T-TA0006

FCC ID : 2BSMP-T-TA0006

Report No. : CTA25081801003

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	8.600	2407.960	2416.560	0.5	PASS
		2437	8.560	2432.480	2441.040	0.5	PASS
		2462	8.520	2458.000	2466.520	0.5	PASS
11G	Ant1	2412	15.680	2404.480	2420.160	0.5	PASS
		2437	16.080	2428.840	2444.920	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.440	2404.080	2420.520	0.5	PASS
		2437	15.880	2428.920	2444.800	0.5	PASS
		2462	16.960	2453.680	2470.640	0.5	PASS

Test Graphs

11B_Ant1_2412



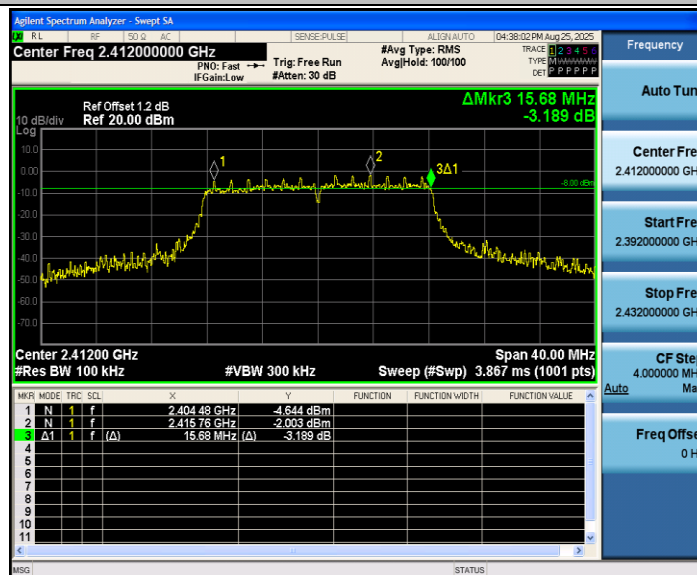
11B_Ant1_2437



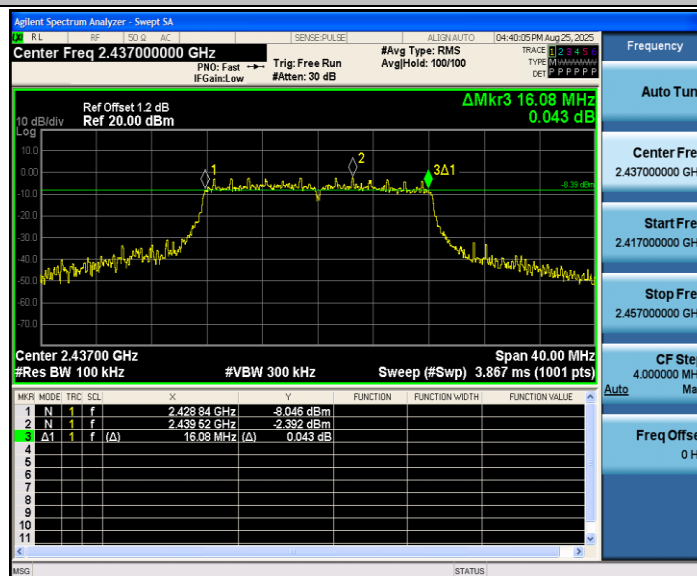
11B_Ant1_2462



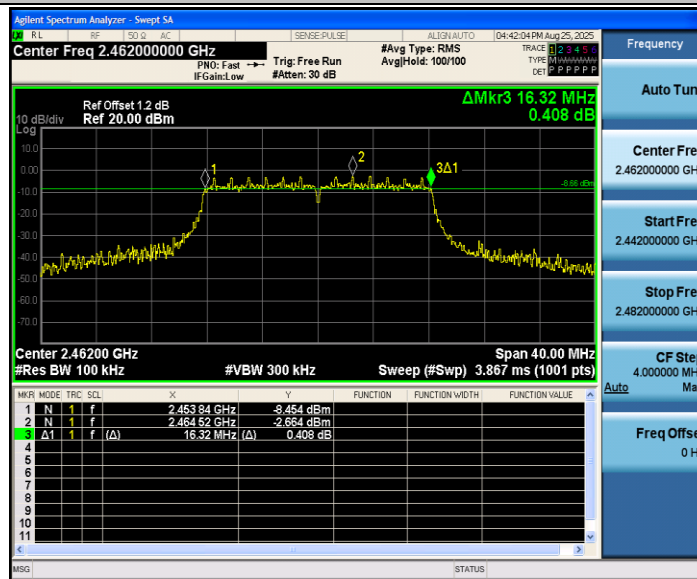
11G_Ant1_2412



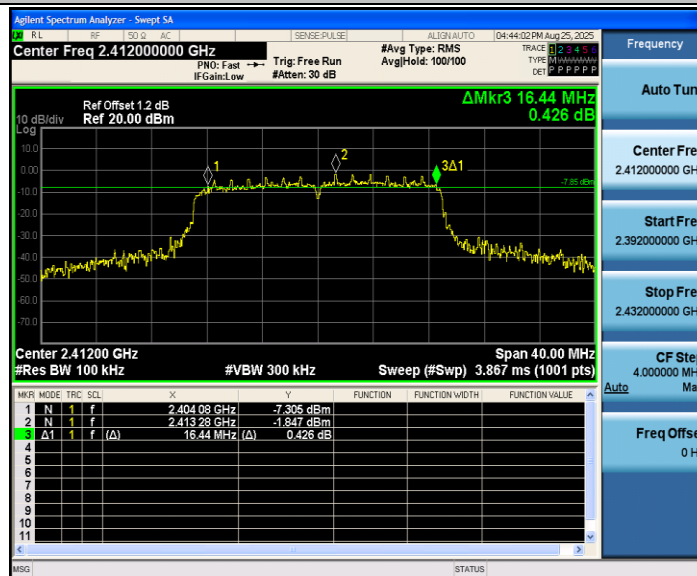
11G_Ant1_2437



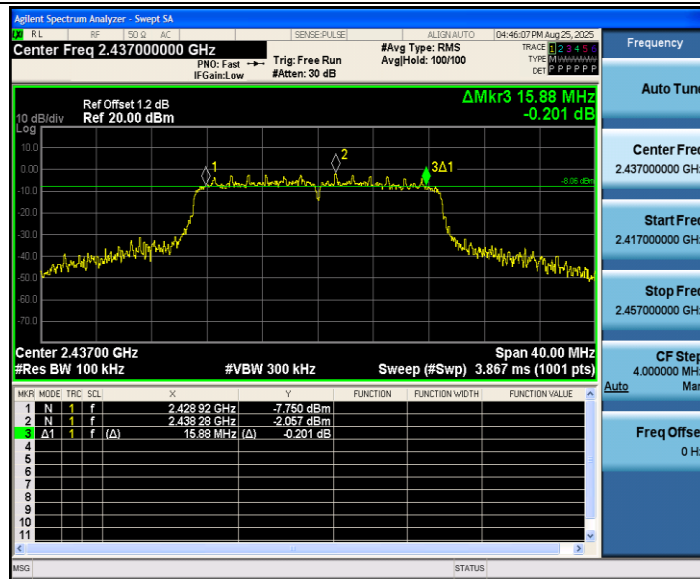
11G_Ant1_2462



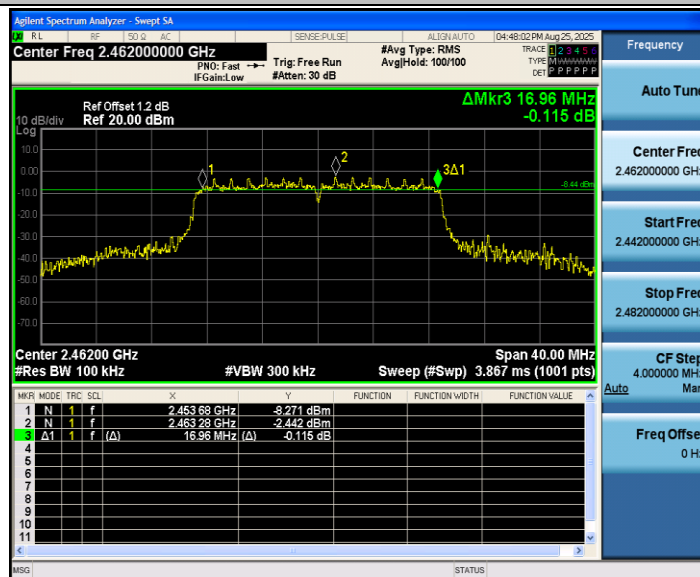
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



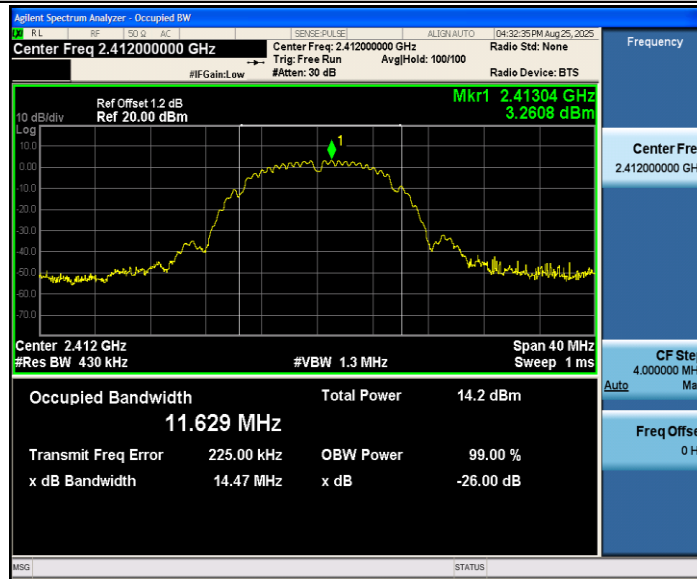
Appendix B: Occupied Channel Bandwidth

Test Result

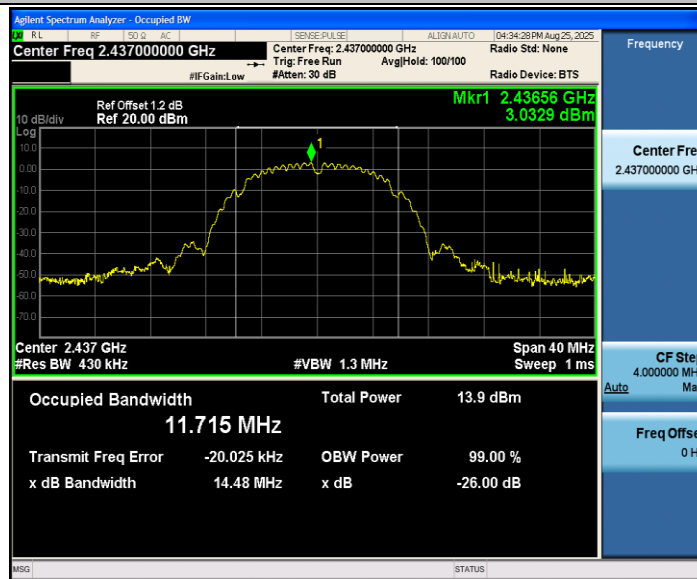
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.629	2406.4105	2418.0395	---	---
		2437	11.715	2431.1225	2442.8375	---	---
		2462	11.838	2456.1334	2467.9714	---	---
11G	Ant1	2412	16.646	2403.8390	2420.4850	---	---
		2437	16.628	2428.6761	2445.3041	---	---
		2462	16.765	2453.6936	2470.4586	---	---
11N20SISO	Ant1	2412	17.660	2403.2865	2420.9465	---	---
		2437	17.581	2428.2229	2445.8039	---	---
		2462	17.729	2453.1693	2470.8983	---	---

Test Graphs

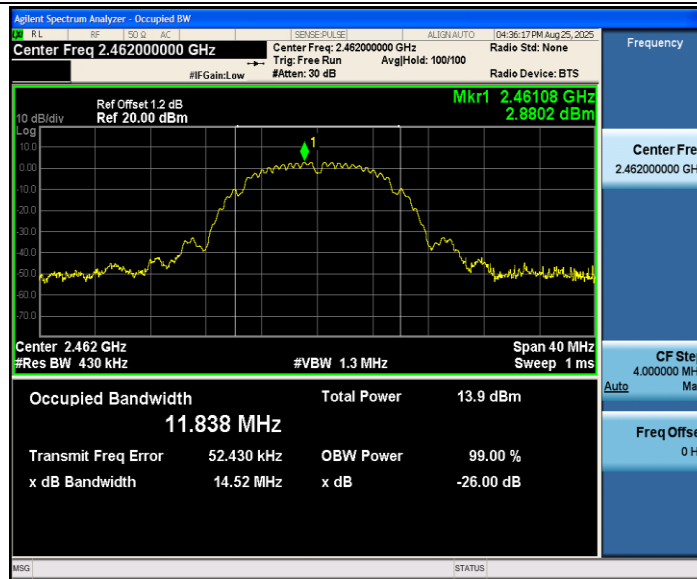
11B_Ant1_2412



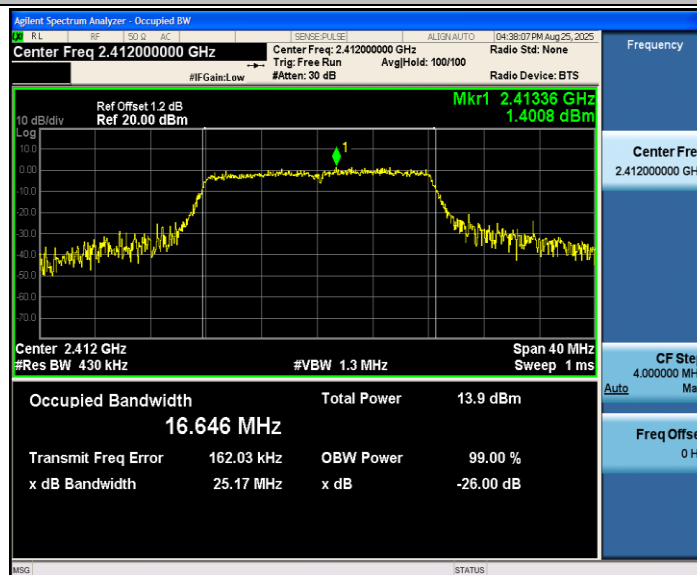
11B_Ant1_2437



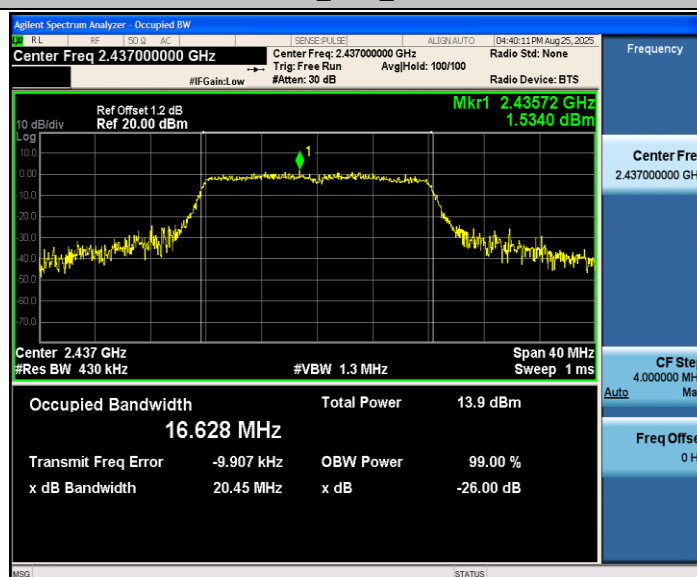
11B_Ant1_2462



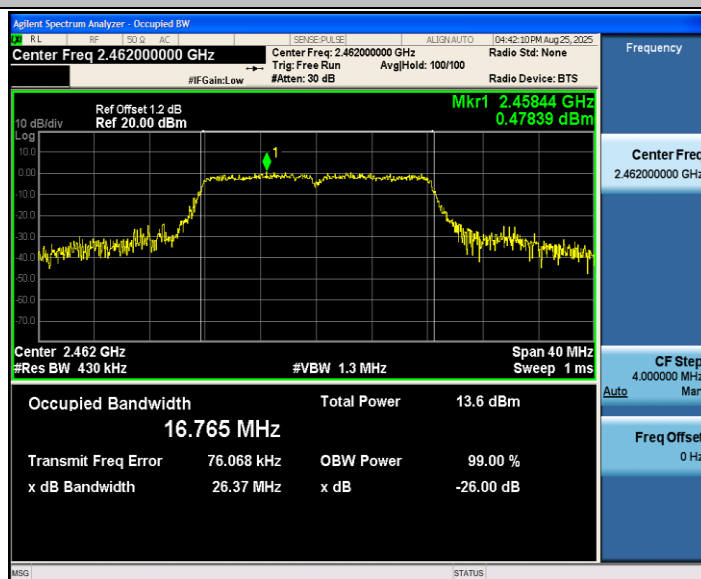
11G_Ant1_2412



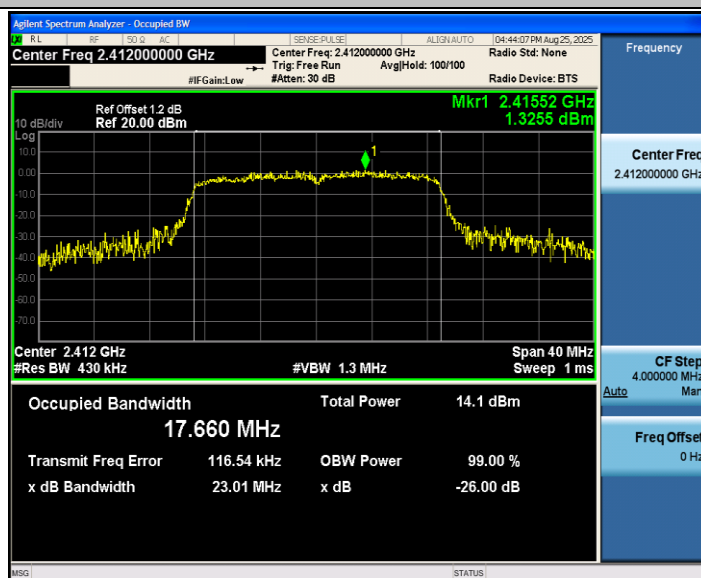
11G_Ant1_2437



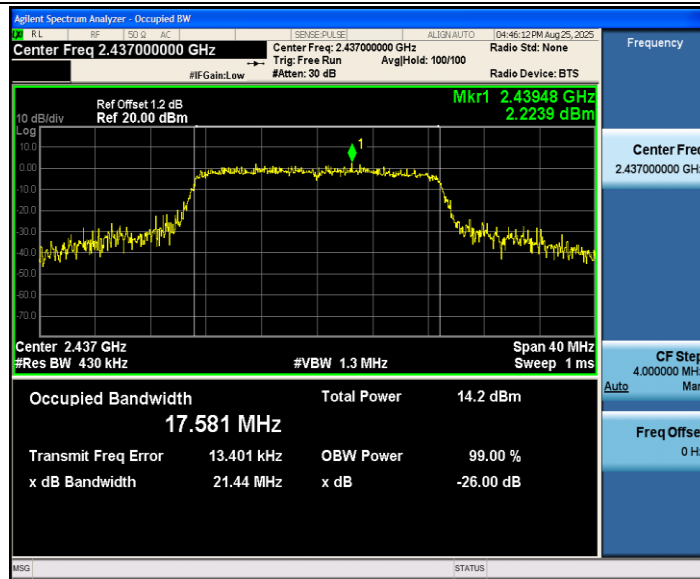
11G_Ant1_2462



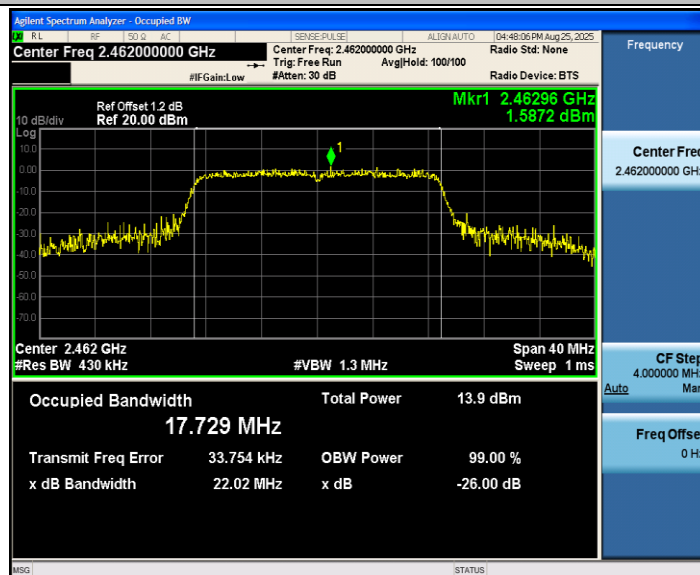
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conduct Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.98	30.00	PASS
		2437	13.72	≤30.00	PASS
		2462	13.68	≤30.00	PASS
11G	Ant1	2412	14.62	≤30.00	PASS
		2437	14.60	≤30.00	PASS
		2462	14.47	≤30.00	PASS
11N20SISO	Ant1	2412	14.69	≤30.00	PASS
		2437	14.79	≤30.00	PASS
		2462	14.71	≤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	-10.87	≤8.00	PASS
		2437	-11.20	≤8.00	PASS
		2462	-11.35	≤8.00	PASS
11G	Ant1	2412	-16.31	≤8.00	PASS
		2437	-17.03	≤8.00	PASS
		2462	-16.59	≤8.00	PASS
11N20SISO	Ant1	2412	-16.46	≤8.00	PASS
		2437	-17.58	≤8.00	PASS
		2462	-17.47	≤8.00	PASS

Test Graphs

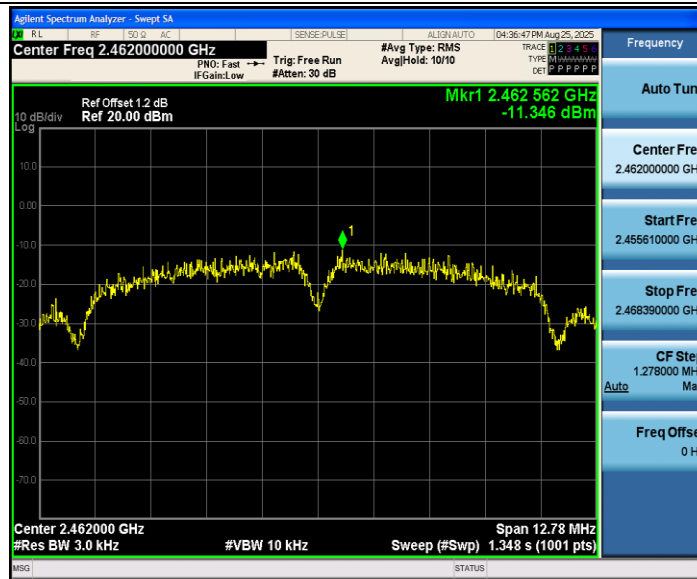
11B_Ant1_2412



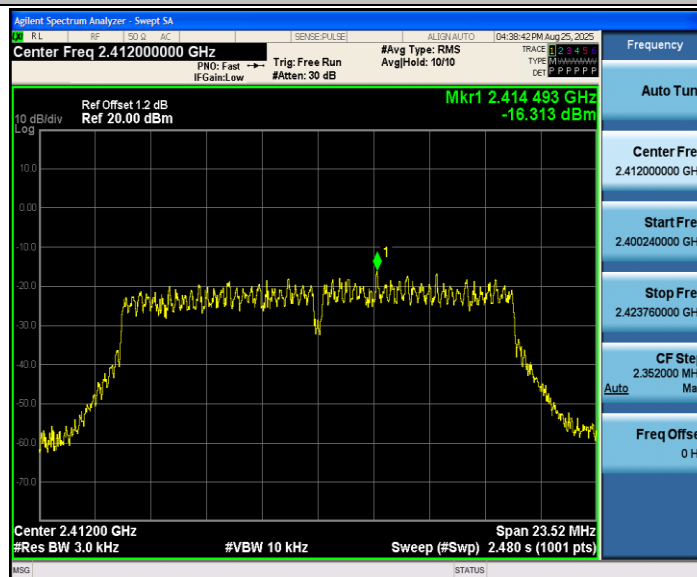
11B_Ant1_2437



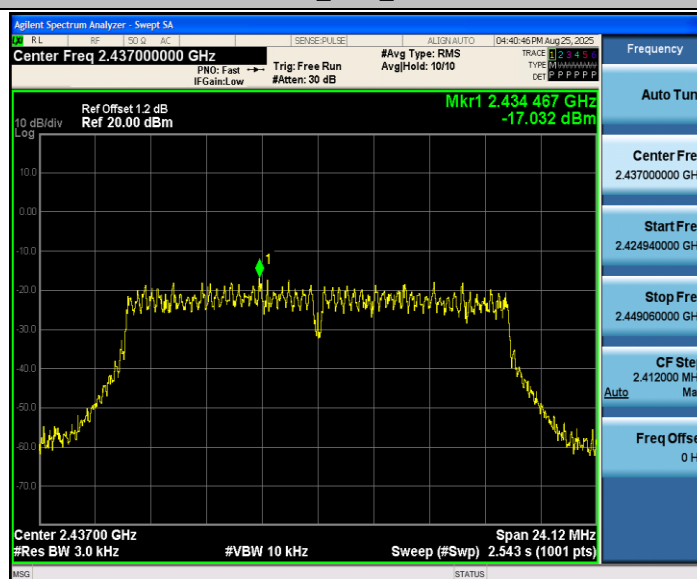
11B_Ant1_2462



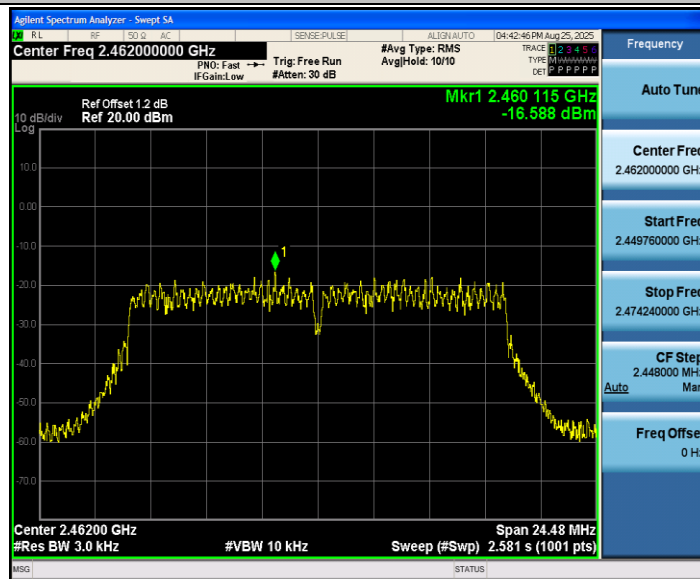
11G_Ant1_2412



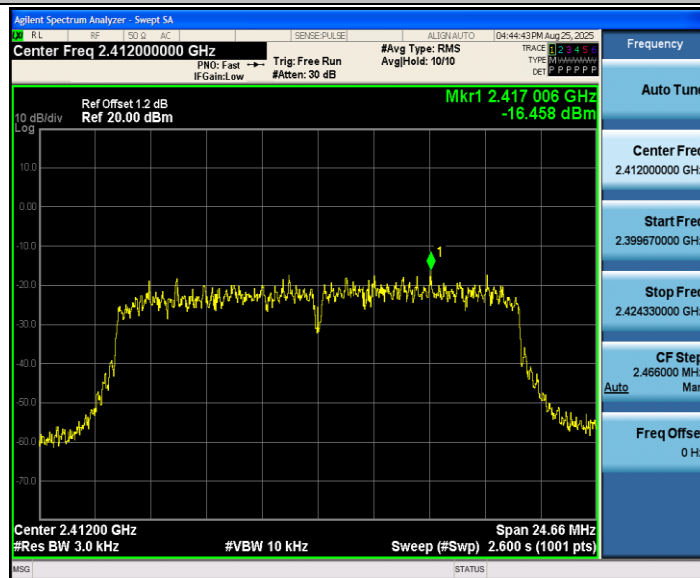
11G_Ant1_2437



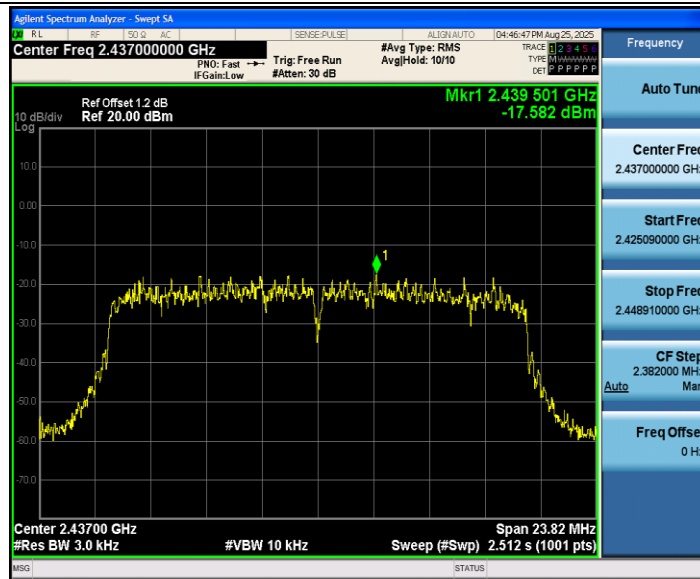
11G_Ant1_2462



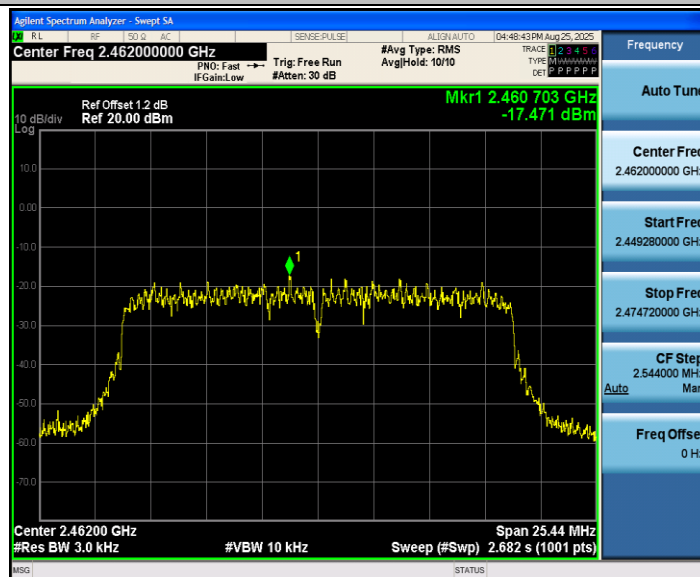
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



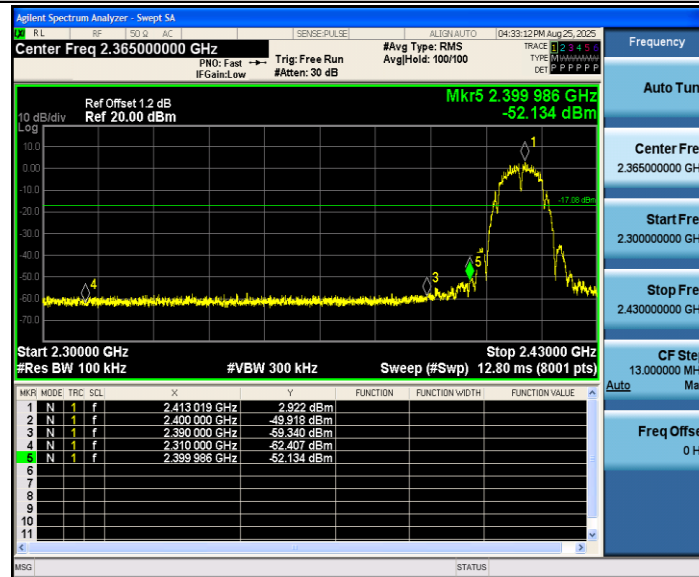
Appendix E: Band edge measurements

Test Result

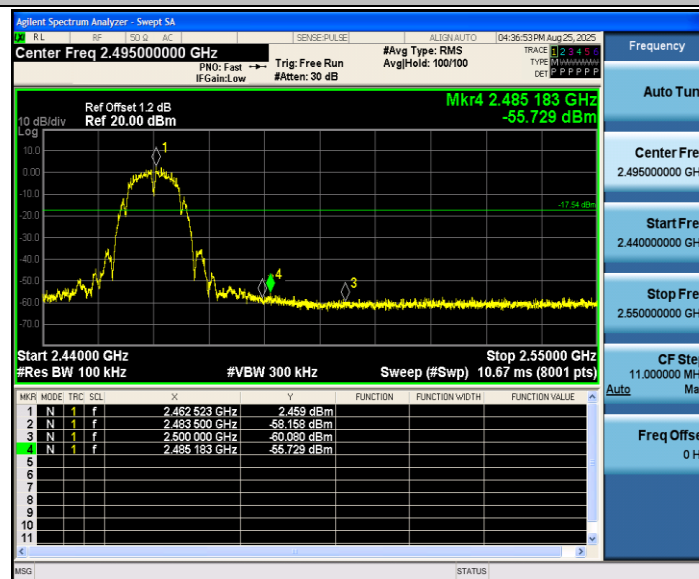
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.92	-52.13	≤-17.08	PASS
		High	2462	2.46	-55.73	≤-17.54	PASS
11G	Ant1	Low	2412	-1.85	-36.29	≤-21.85	PASS
		High	2462	-2.58	-48.3	≤-22.58	PASS
11N20SISO	Ant1	Low	2412	-1.84	-35.52	≤-21.84	PASS
		High	2462	-2.60	-45.61	≤-22.6	PASS

Test Graphs

11B_Ant1_Low_2412



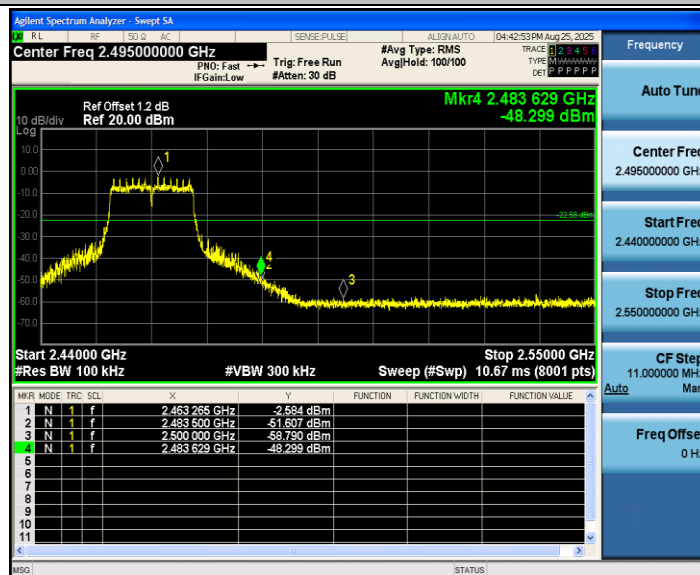
11B_Ant1_High_2462



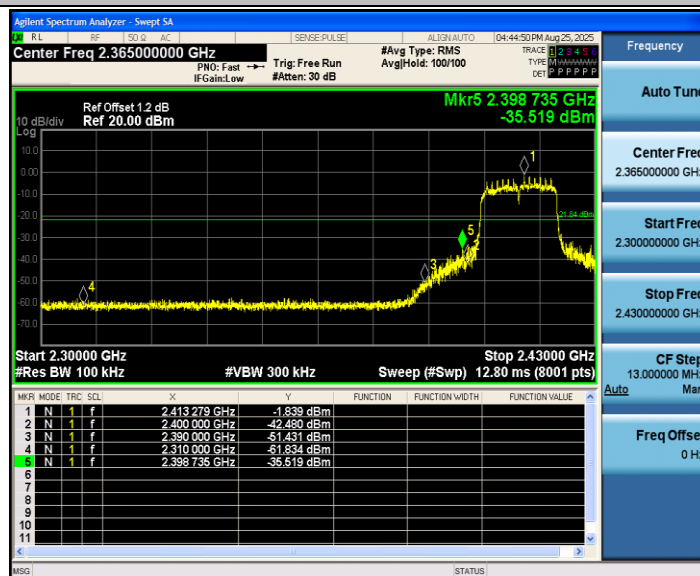
11G_Ant1_Low_2412



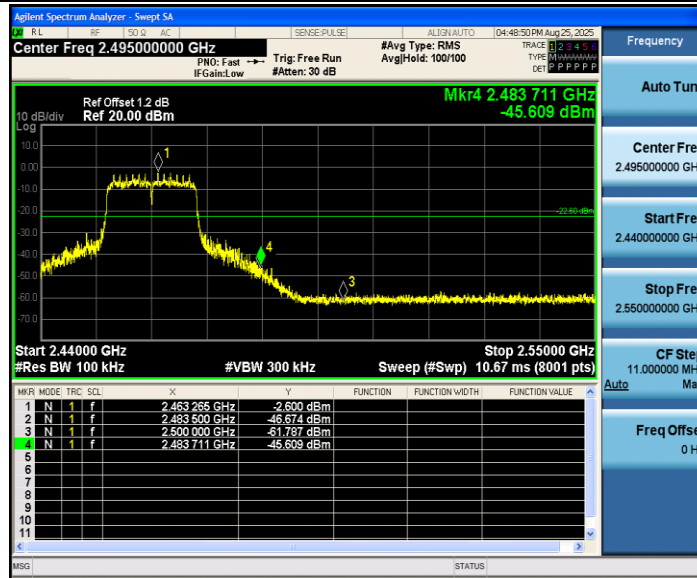
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

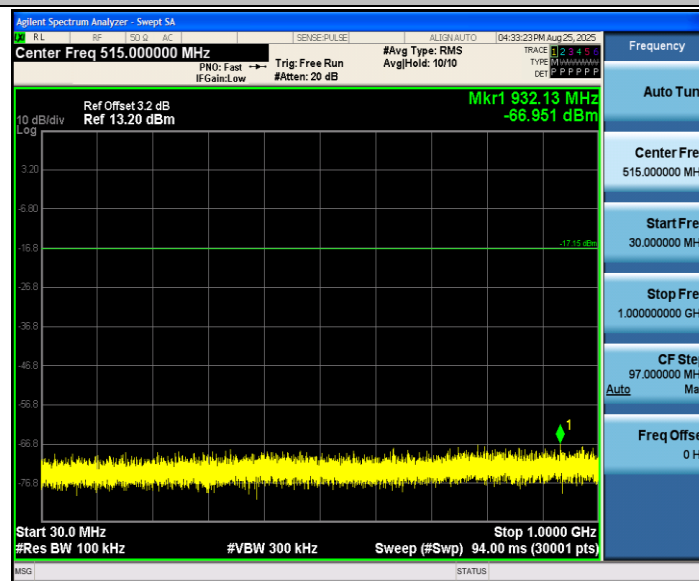
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.85	2.85	---	PASS
			30~1000	2.85	-66.95	≤-17.15	PASS
			1000~26500	2.85	-53.83	≤-17.15	PASS
		2437	Reference	2.05	2.05	---	PASS
			30~1000	2.05	-66.93	≤-17.95	PASS
			1000~26500	2.05	-54.32	≤-17.95	PASS
		2462	Reference	1.30	1.30	---	PASS
			30~1000	1.30	-67.14	≤-18.7	PASS
			1000~26500	1.30	-54.51	≤-18.7	PASS
11G	Ant1	2412	Reference	-1.87	-1.87	---	PASS
			30~1000	-1.87	-58.42	≤-21.87	PASS
			1000~26500	-1.87	-54.82	≤-21.87	PASS
		2437	Reference	-2.39	-2.39	---	PASS
			30~1000	-2.39	-67.71	≤-22.39	PASS
			1000~26500	-2.39	-54.42	≤-22.39	PASS
		2462	Reference	-2.68	-2.68	---	PASS
			30~1000	-2.68	-65.66	≤-22.68	PASS
			1000~26500	-2.68	-53.86	≤-22.68	PASS
11N20SISO	Ant1	2412	Reference	-2.21	-2.21	---	PASS
			30~1000	-2.21	-65.56	≤-22.21	PASS
			1000~26500	-2.21	-54.22	≤-22.21	PASS
		2437	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-67.04	≤-22.84	PASS
			1000~26500	-2.84	-54.18	≤-22.84	PASS
		2462	Reference	-2.50	-2.50	---	PASS
			30~1000	-2.50	-67.11	≤-22.5	PASS
			1000~26500	-2.50	-54.68	≤-22.5	PASS

Test Graphs

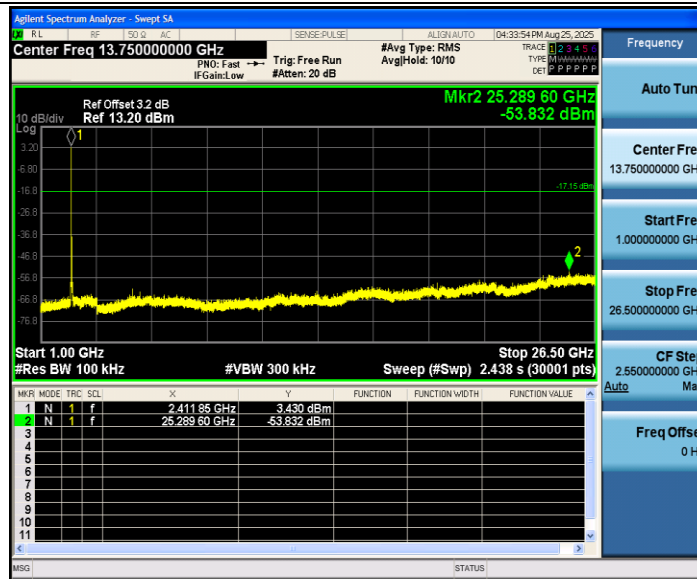
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



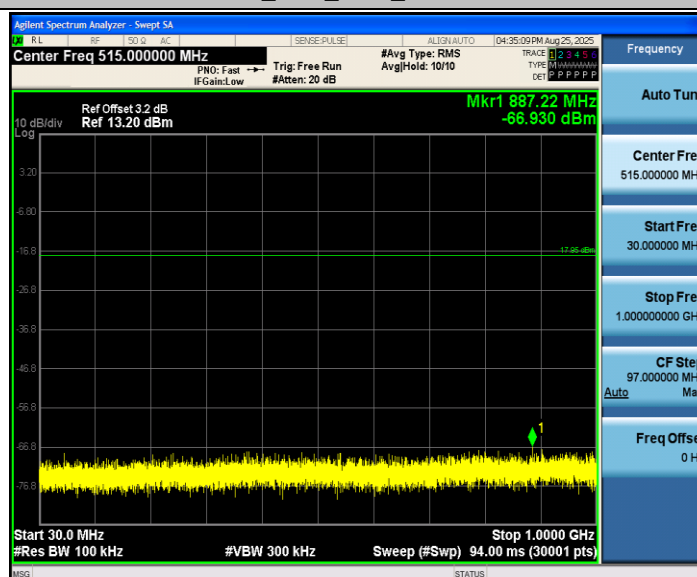
11B_Ant1_2412_1000~26500



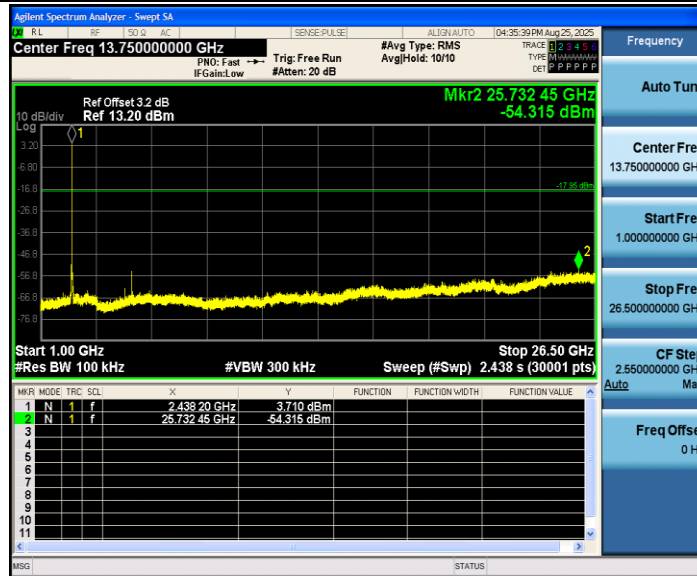
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



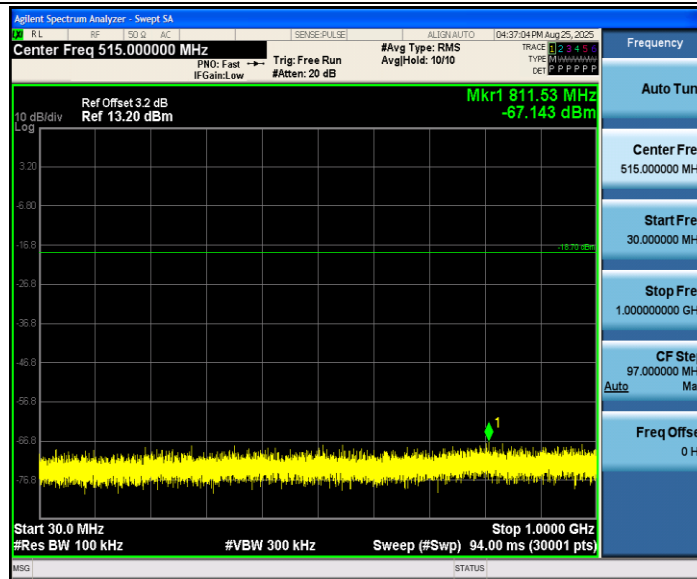
11B_Ant1_2437_1000~26500



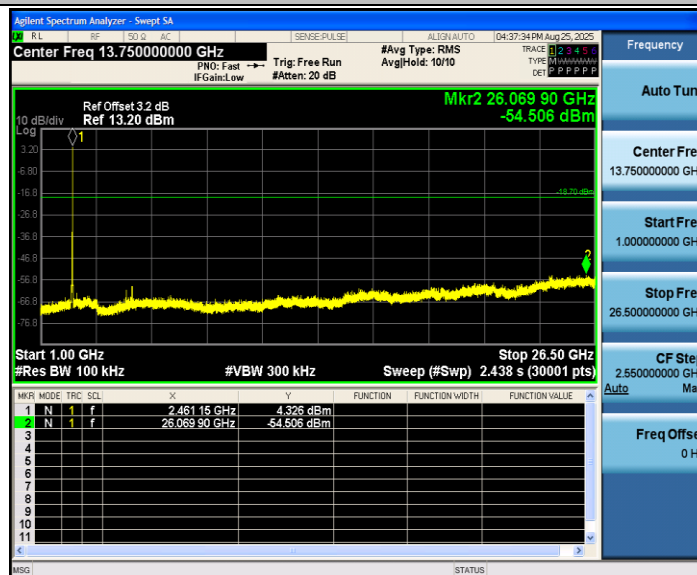
11B_Ant1_2462_0~Reference



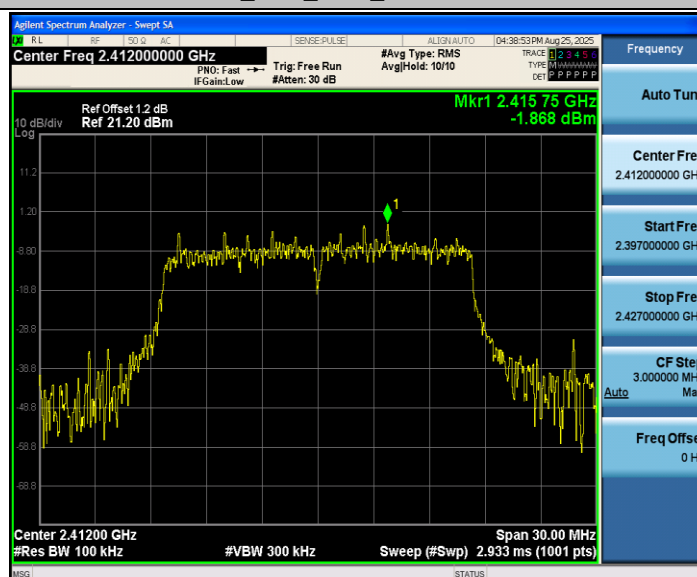
11B_Ant1_2462_30~1000



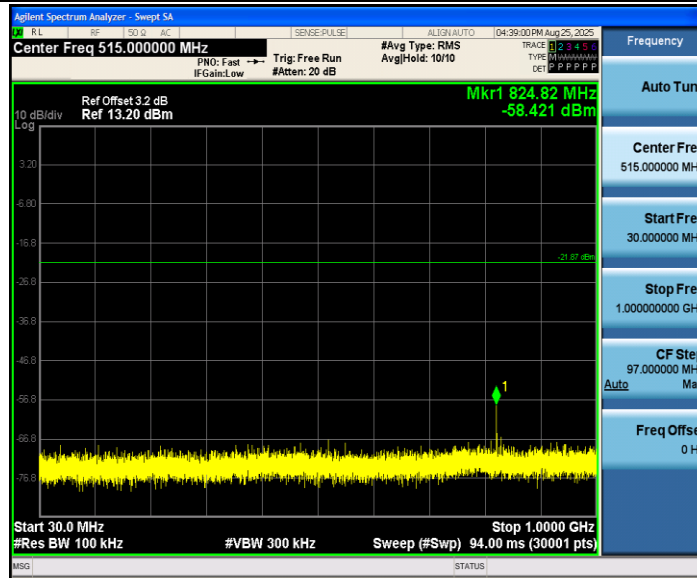
11B_Ant1_2462_1000~26500



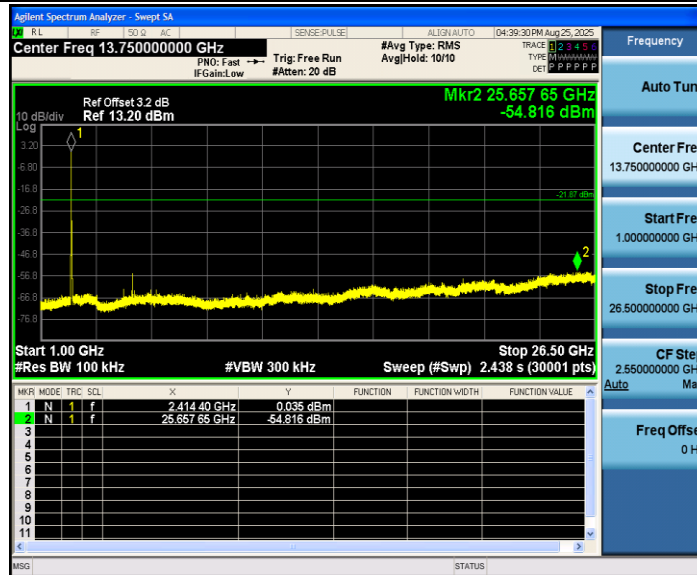
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



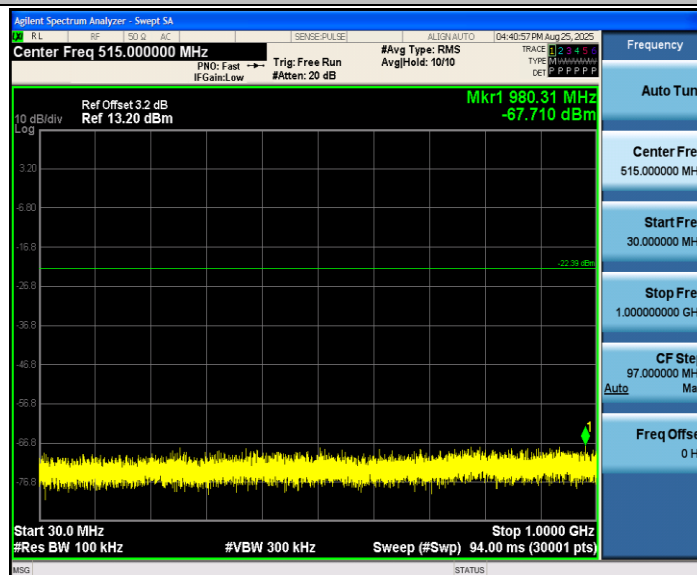
11G_Ant1_2412_1000~26500



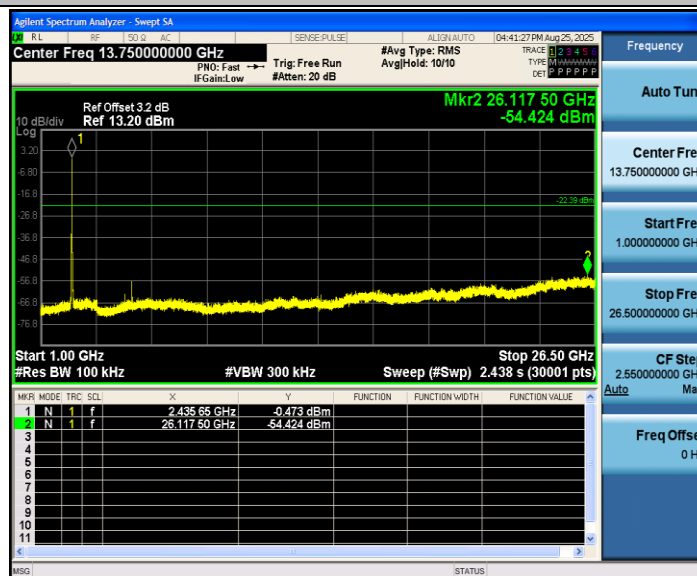
11G_Ant1_2437_0~Reference



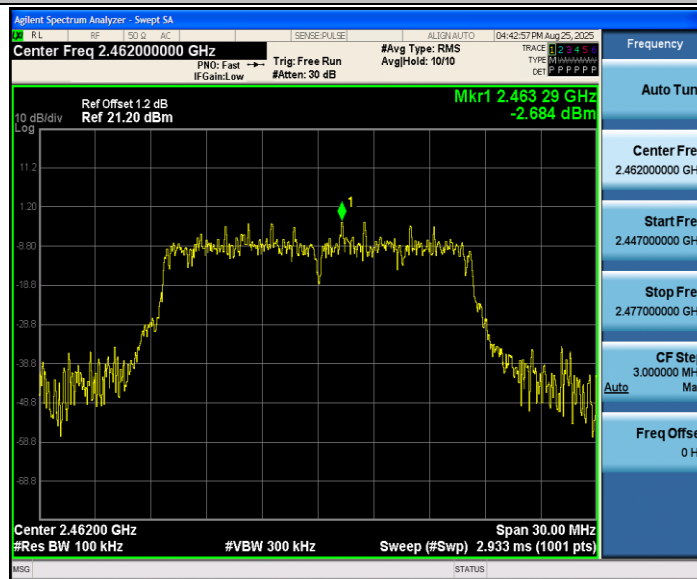
11G_Ant1_2437_30~1000



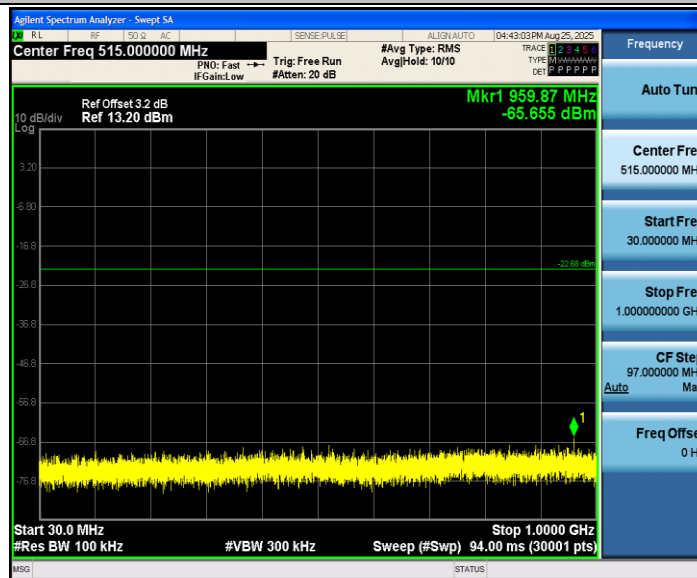
11G_Ant1_2437_1000~26500



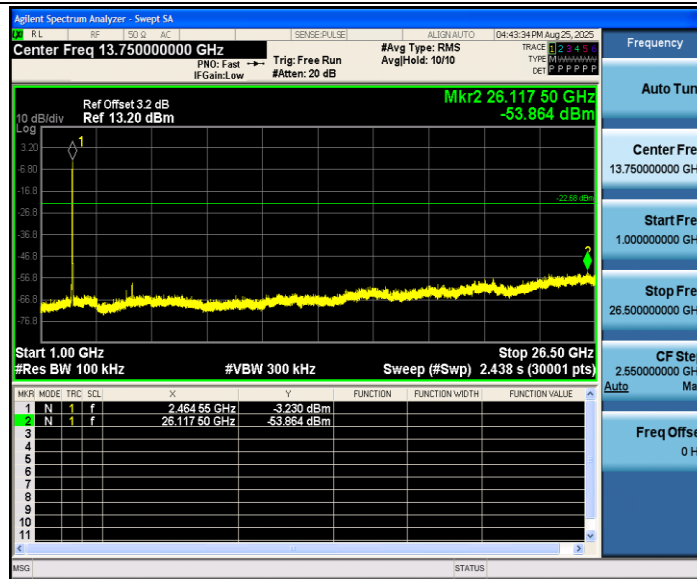
11G_Ant1_2462_0~Reference



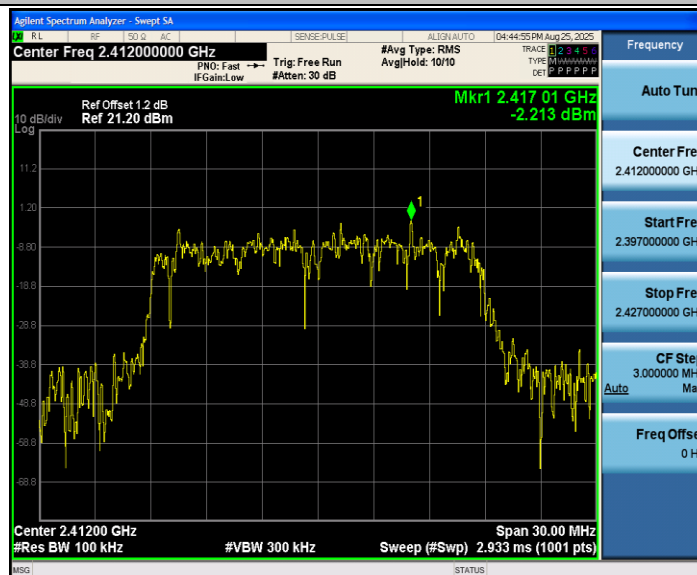
11G_Ant1_2462_30~1000



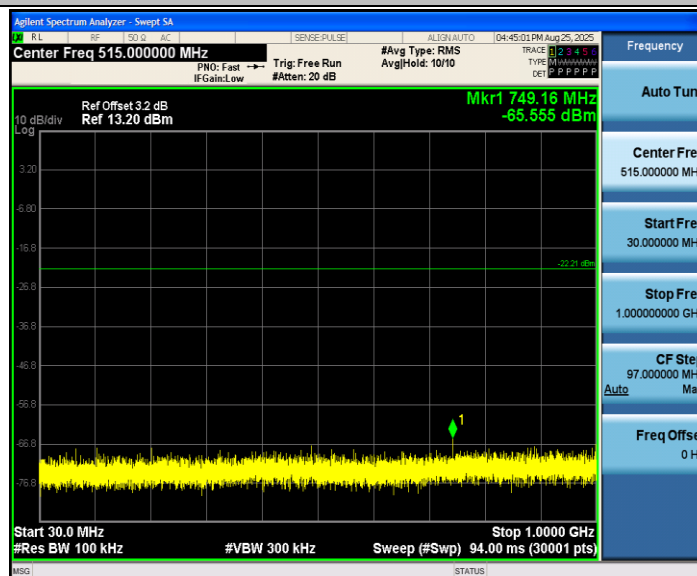
11G_Ant1_2462_1000~26500



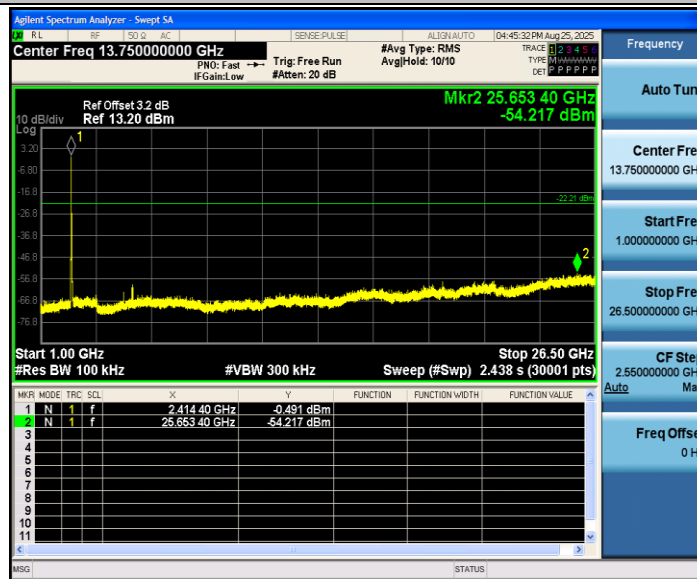
11N20SISO_Ant1_2412_0~Reference



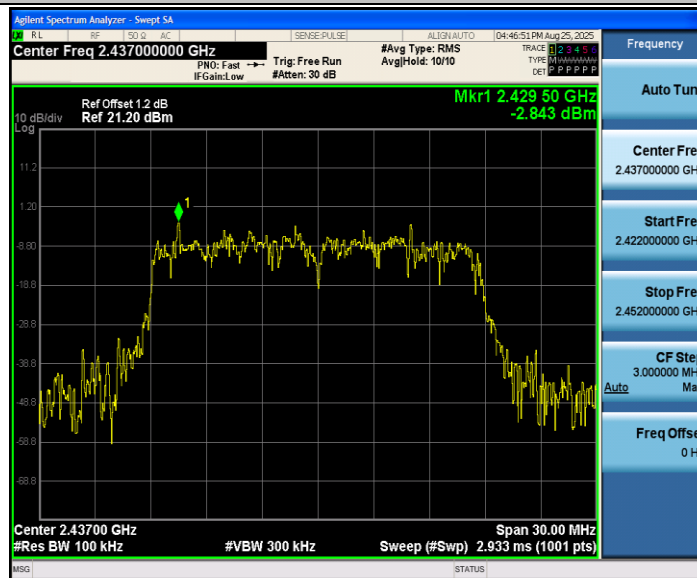
11N20SISO_Ant1_2412_30~1000



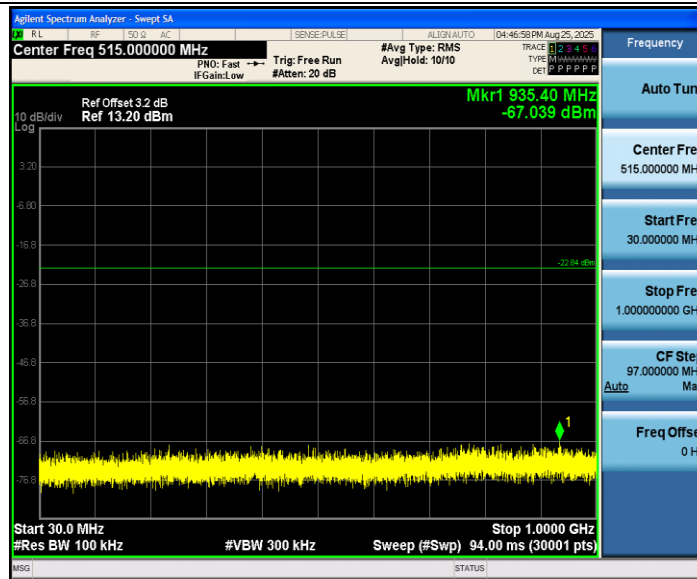
11N20SISO_Ant1_2412_1000~26500



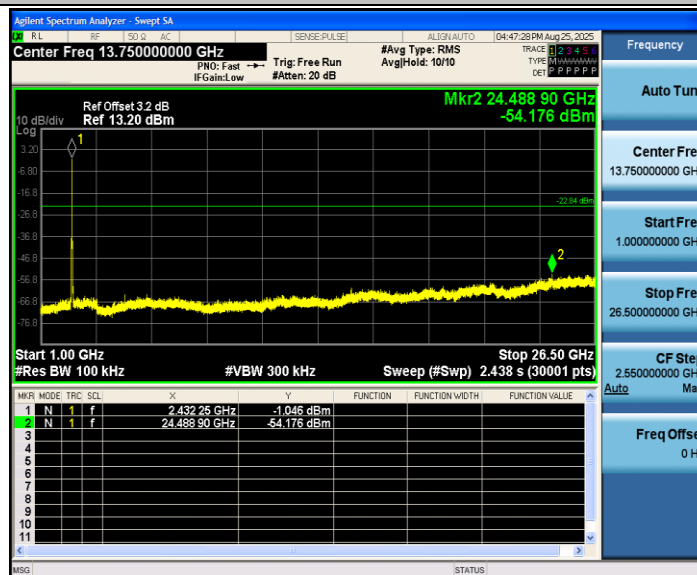
11N20SISO_Ant1_2437_0~Reference



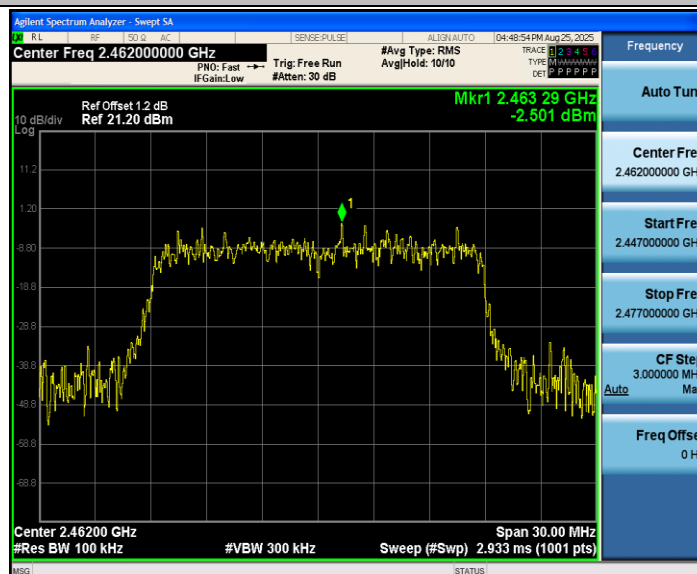
11N20SISO_Ant1_2437_30~1000



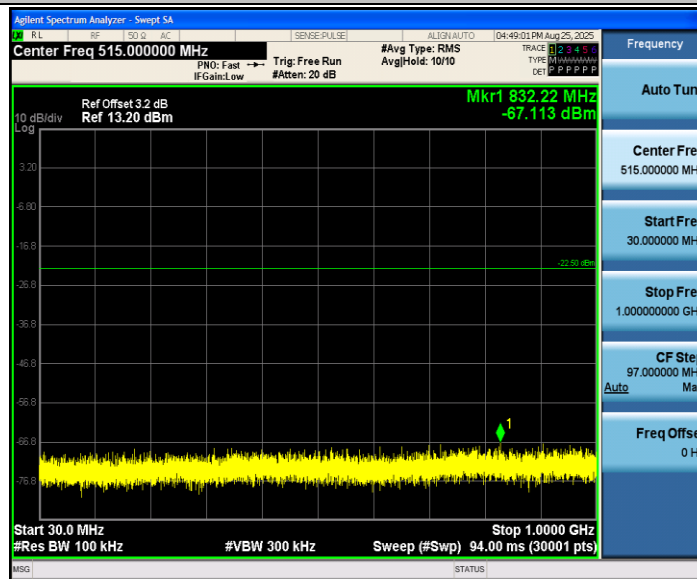
11N20SISO_Ant1_2437_1000~26500



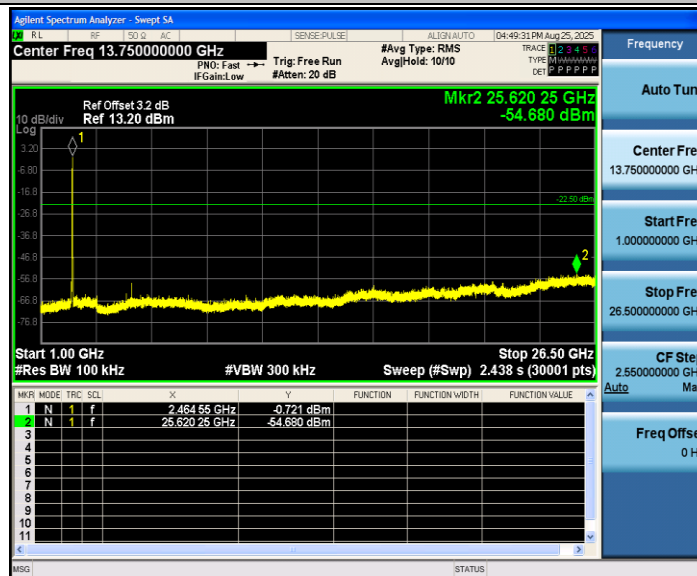
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500

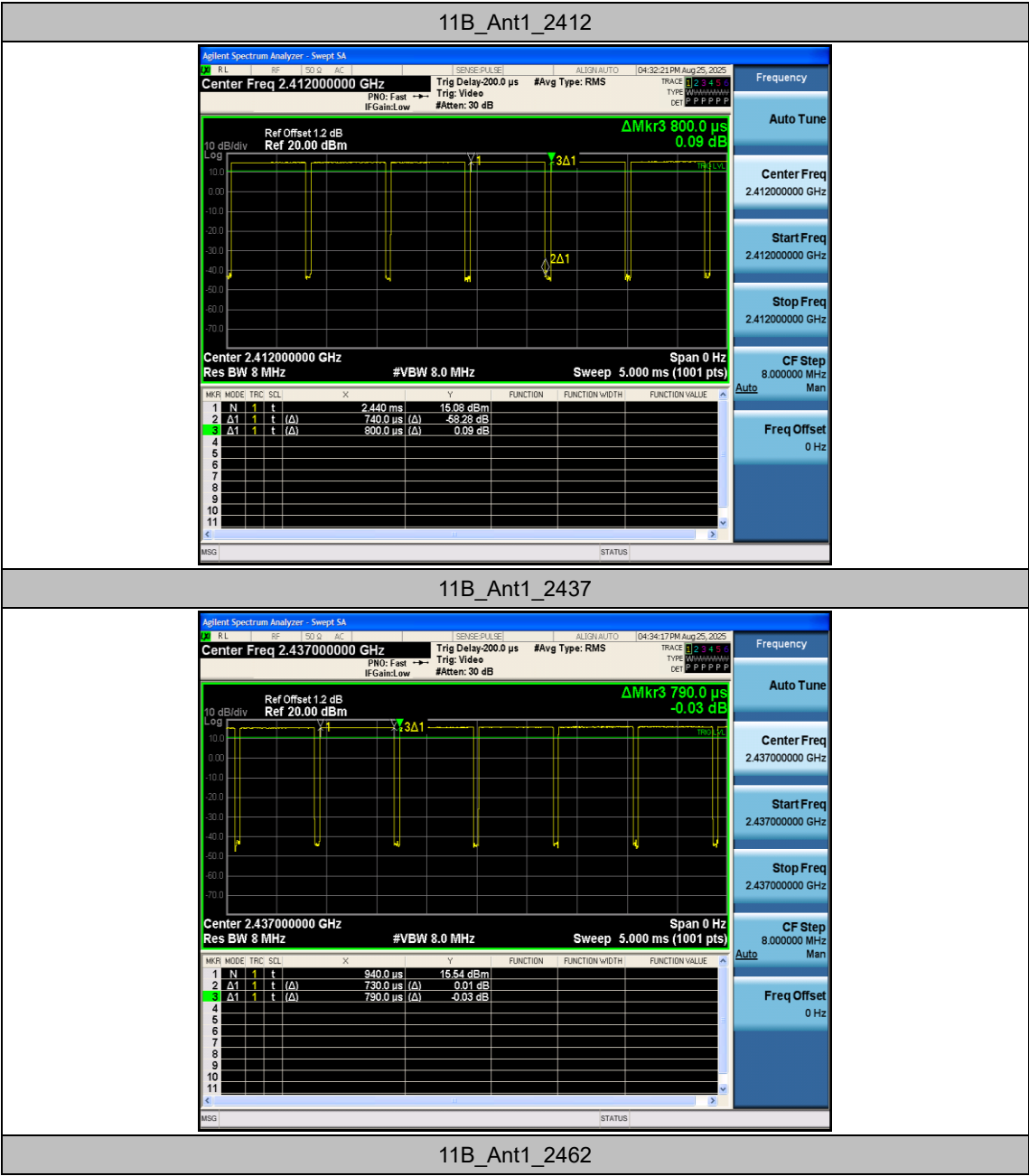


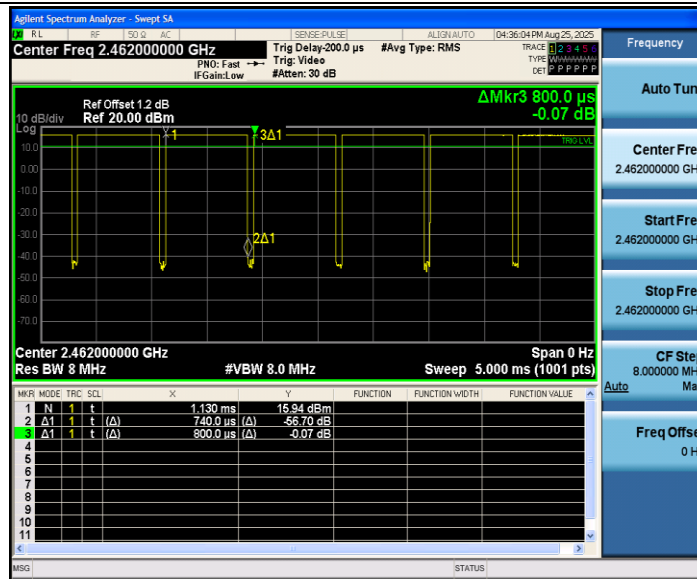
Appendix G: Duty Cycle

Test Result

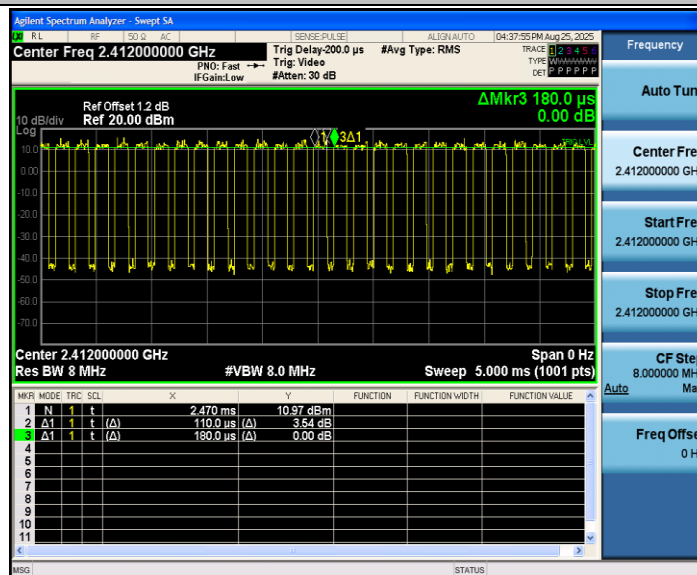
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	0.74	0.80	92.50
		2437	0.73	0.79	92.41
		2462	0.74	0.80	92.50
11G	Ant1	2412	0.11	0.18	61.11
		2437	0.11	0.18	61.11
		2462	0.11	0.18	61.11
11N20SISO	Ant1	2412	0.11	0.18	61.11
		2437	0.11	0.18	61.11
		2462	0.12	0.18	66.67

Test Graphs





11G_Ant1_2412



11G_Ant1_2437

