

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A9PS-M-Q59

Company : Shenzhen Kxunda E-commerce Co., Ltd

EUT : childrens tablet computer

Model Number : M_Q59

Report No. : CTA25070200803

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	9.560	2407.000	2416.560	0.5	PASS
		2437	9.080	2432.480	2441.560	0.5	PASS
		2462	9.640	2457.400	2467.040	0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	0.5	PASS
		2437	16.520	2428.760	2445.280	0.5	PASS
		2462	16.520	2453.760	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.560	2428.240	2445.800	0.5	PASS
		2462	17.400	2453.240	2470.640	0.5	PASS
11N40SISO	Ant1	2422	33.600	2405.520	2439.120	0.5	PASS
		2437	33.520	2420.360	2453.880	0.5	PASS
		2452	33.600	2435.120	2468.720	0.5	PASS

Test Graphs

11B_Ant1_2412



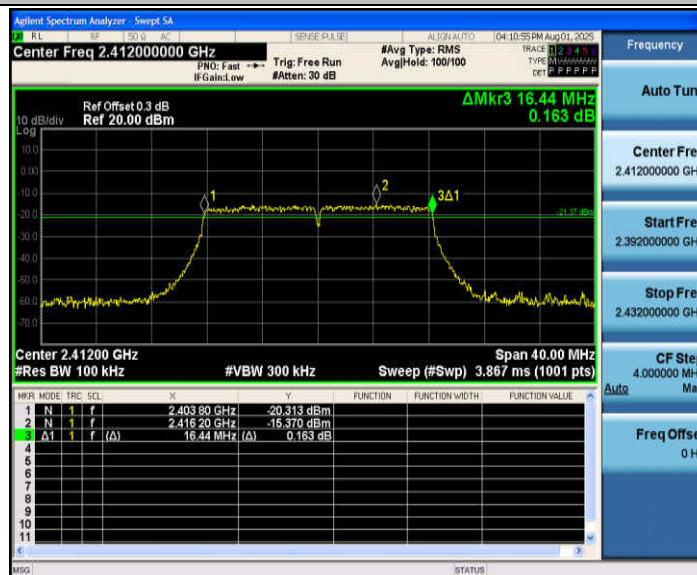
11B_Ant1_2437



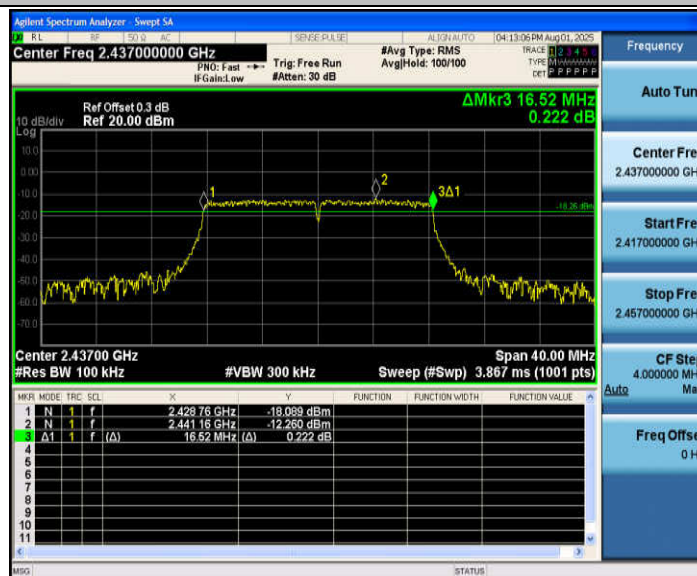
11B_Ant1_2462



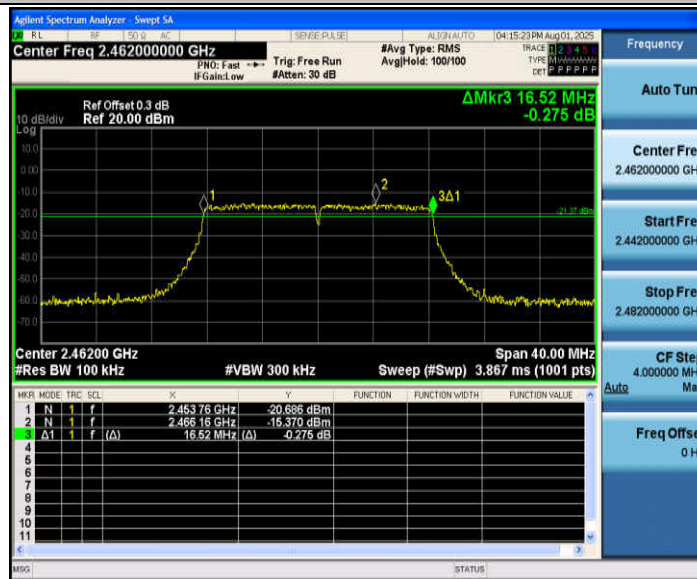
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



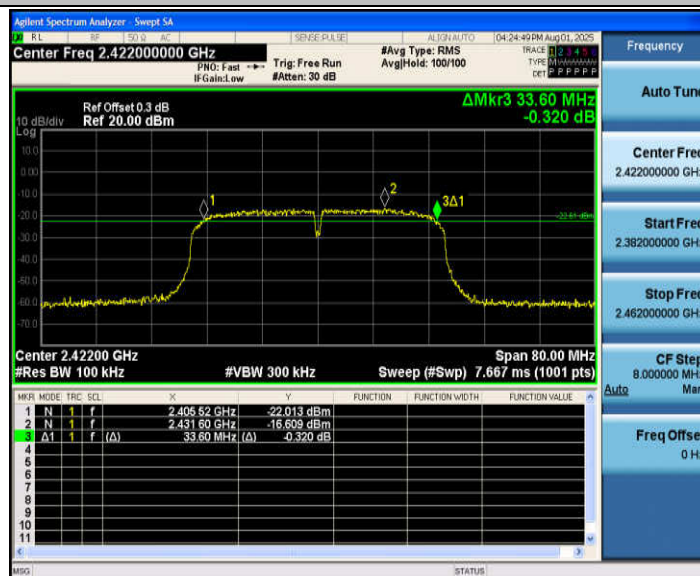
11N20SISO_Ant1_2437



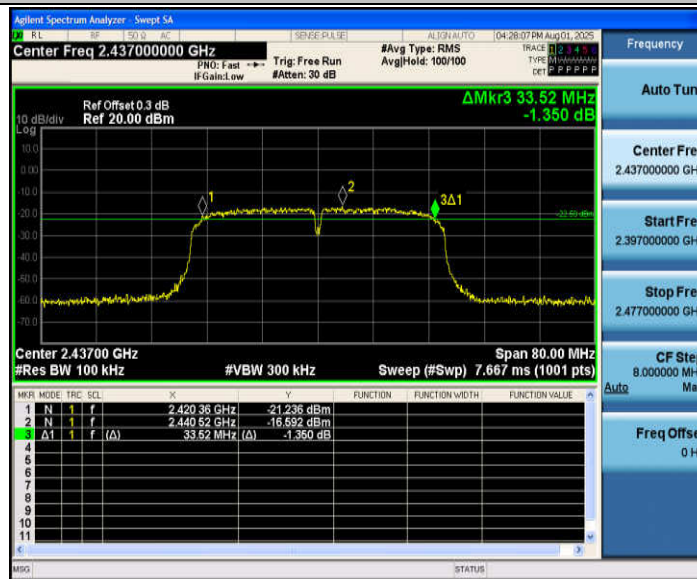
11N20SISO_Ant1_2462



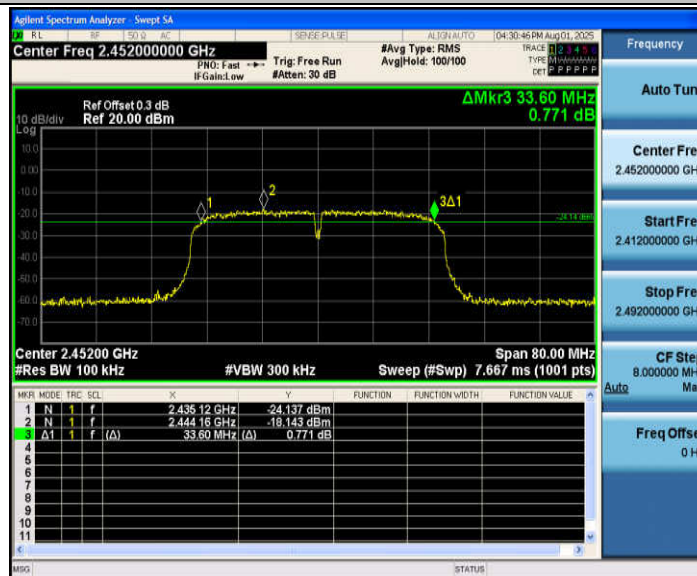
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



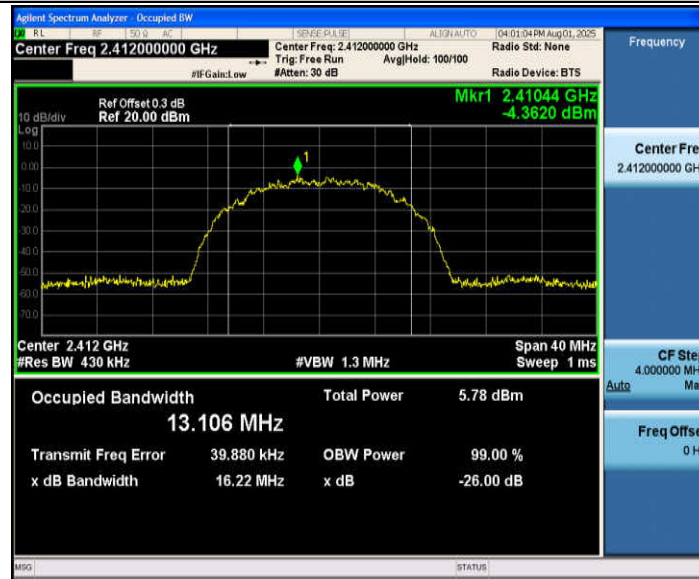
Appendix B: Occupied Channel Bandwidth

Test Result

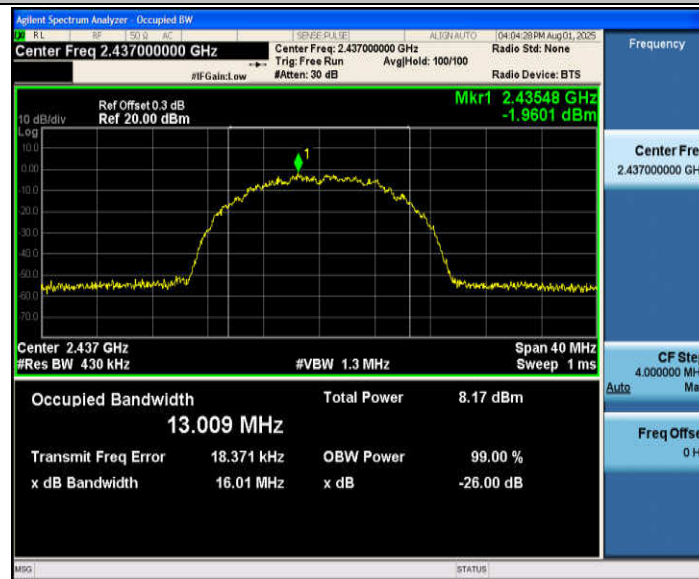
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.106	2405.4869	2418.5929	---	---
		2437	13.009	2430.5139	2443.5229	---	---
		2462	12.988	2455.4903	2468.4783	---	---
11G	Ant1	2412	16.555	2403.7813	2420.3363	---	---
		2437	16.619	2428.7142	2445.3332	---	---
		2462	16.620	2453.7122	2470.3322	---	---
11N20SISO	Ant1	2412	17.449	2403.3284	2420.7774	---	---
		2437	17.462	2428.3072	2445.7692	---	---
		2462	17.431	2453.3255	2470.7565	---	---
11N40SISO	Ant1	2422	34.797	2404.7557	2439.5527	---	---
		2437	34.834	2419.7403	2454.5743	---	---
		2452	34.787	2434.7038	2469.4908	---	---

Test Graphs

11B_Ant1_2412



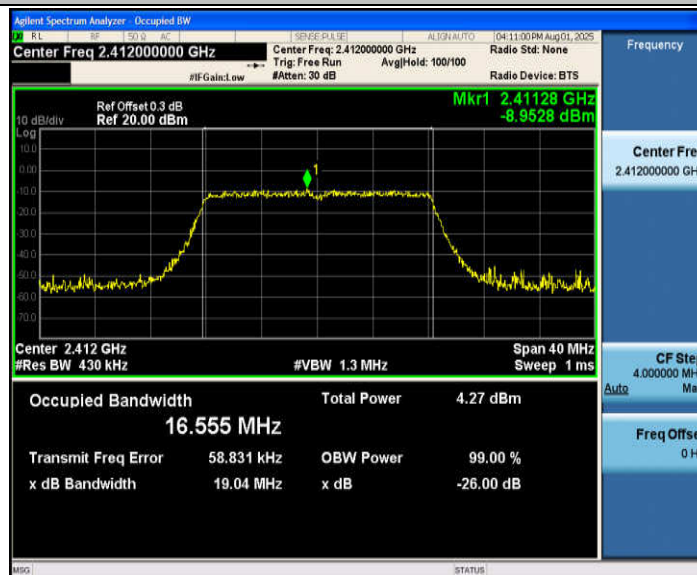
11B_Ant1_2437



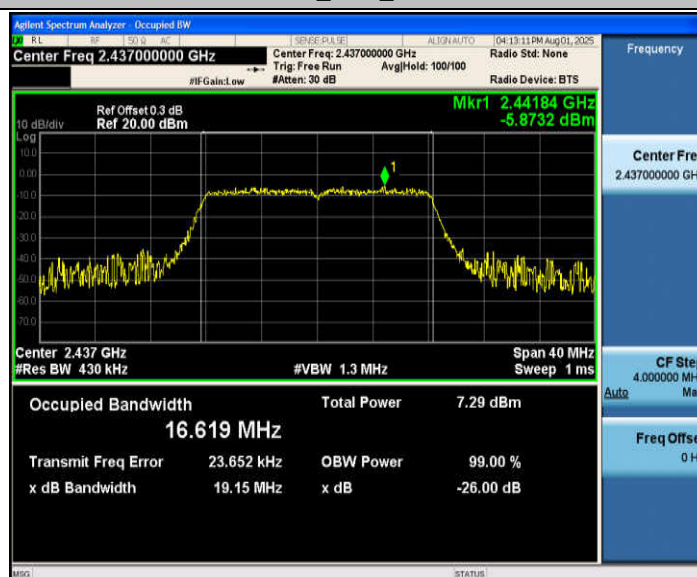
11B_Ant1_2462



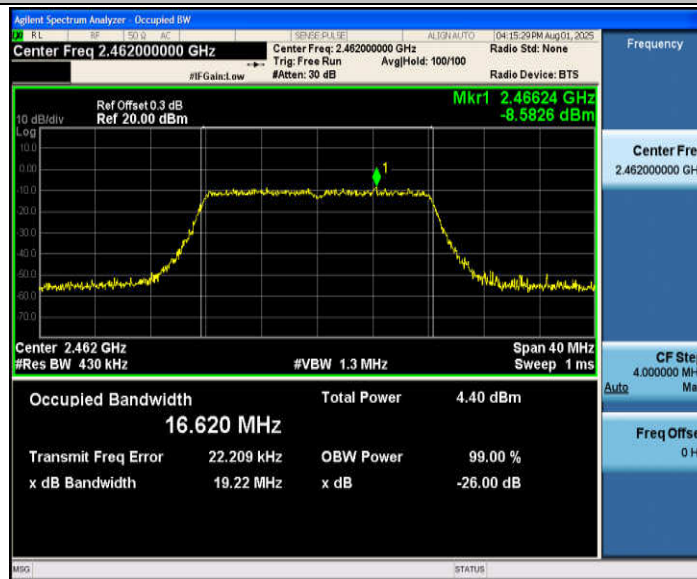
11G_Ant1_2412



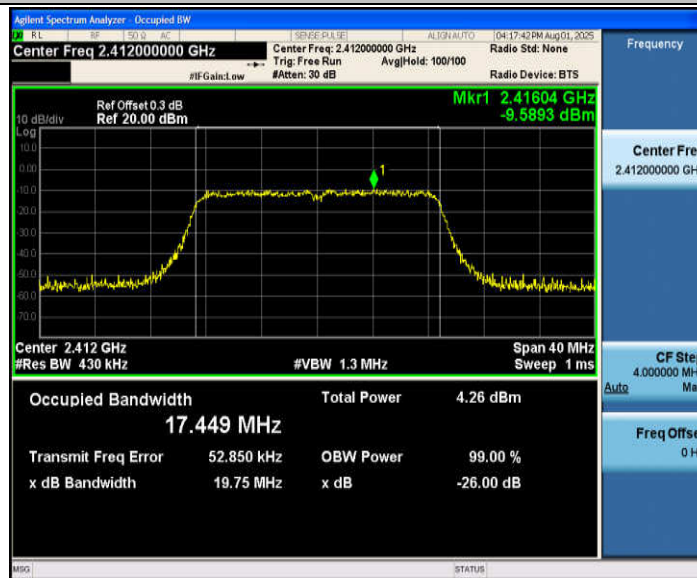
11G_Ant1_2437



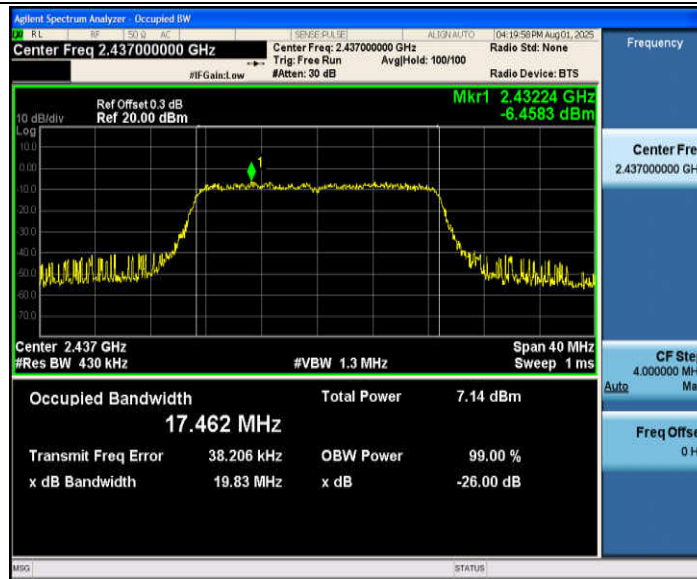
11G_Ant1_2462



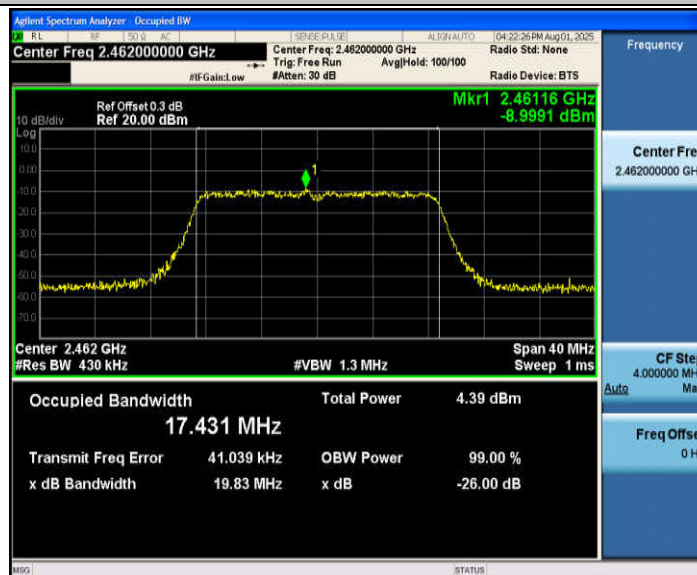
11N20SISO_Ant1_2412



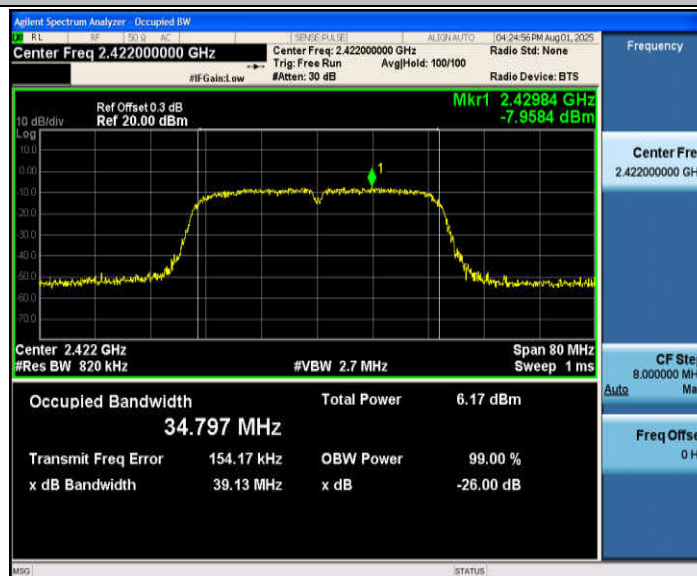
11N20SISO_Ant1_2437



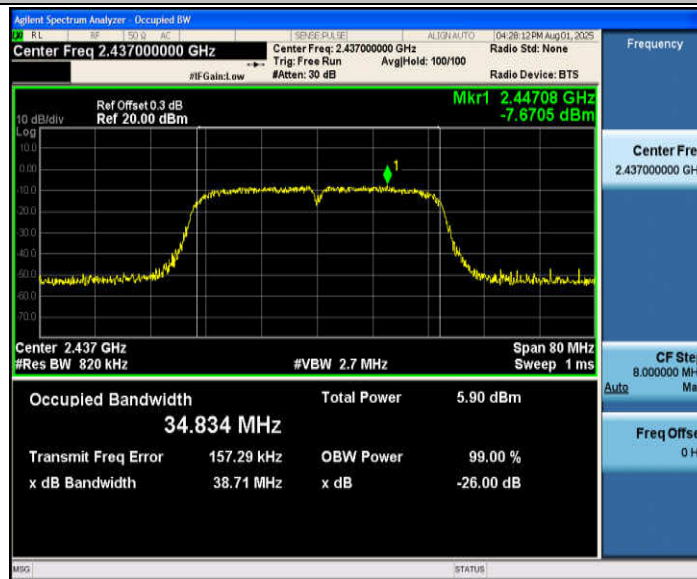
11N20SISO_Ant1_2462



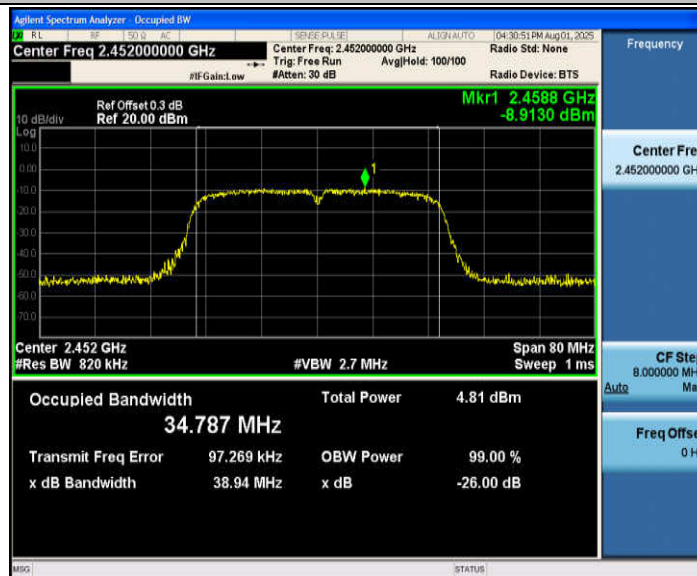
11N40SISO_Ant1_2422



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	6.84	≤30.00	PASS
		2437	5.21	≤30.00	PASS
		2462	5.44	≤30.00	PASS
11G	Ant1	2412	5.06	≤30.00	PASS
		2437	5.51	≤30.00	PASS
		2462	5.36	≤30.00	PASS
11N20SISO	Ant1	2412	5.38	≤30.00	PASS
		2437	5.81	≤30.00	PASS
		2462	5.45	≤30.00	PASS
11N40SISO	Ant1	2422	5.49	≤30.00	PASS
		2437	6.28	≤30.00	PASS
		2452	5.04	≤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	-22.75	≤8.00	PASS
		2437	-23.81	≤8.00	PASS
		2462	-21.99	≤8.00	PASS
11G	Ant1	2412	-29.37	≤8.00	PASS
		2437	-28.95	≤8.00	PASS
		2462	-29.12	≤8.00	PASS
11N20SISO	Ant1	2412	-29.11	≤8.00	PASS
		2437	-28.50	≤8.00	PASS
		2462	-28.84	≤8.00	PASS
11N40SISO	Ant1	2422	-28.99	≤8.00	PASS
		2437	-28.73	≤8.00	PASS
		2452	-29.91	≤8.00	PASS

Test Graphs

11B_Ant1_2412



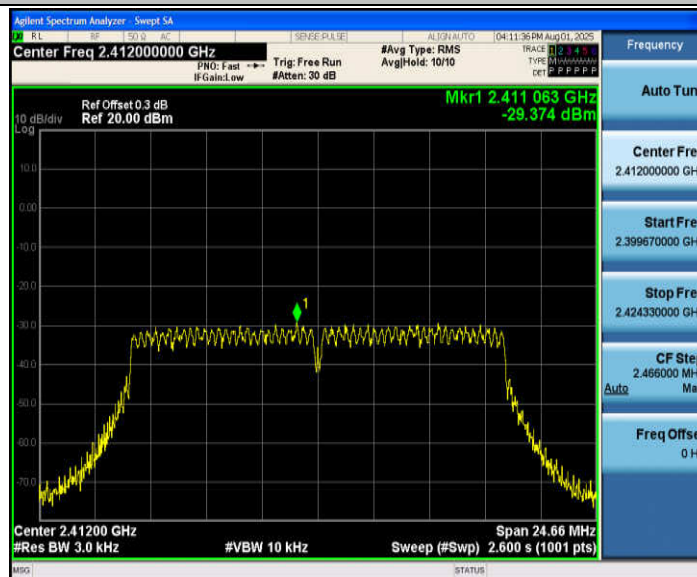
11B_Ant1_2437



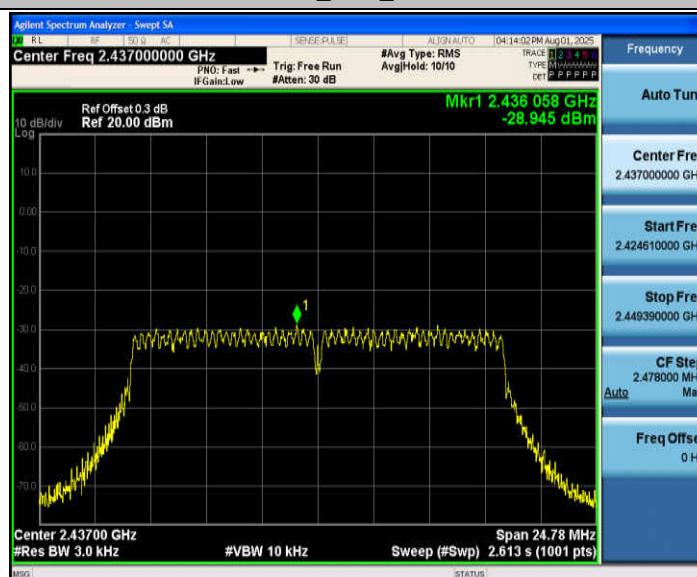
11B_Ant1_2462



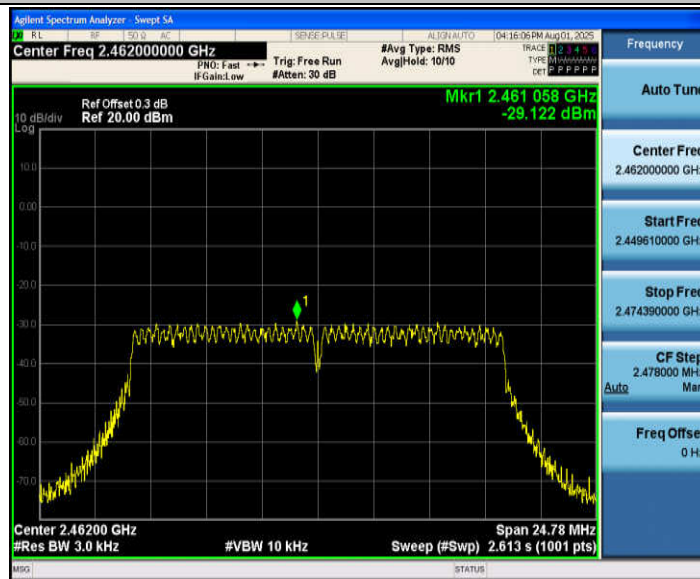
11G_Ant1_2412



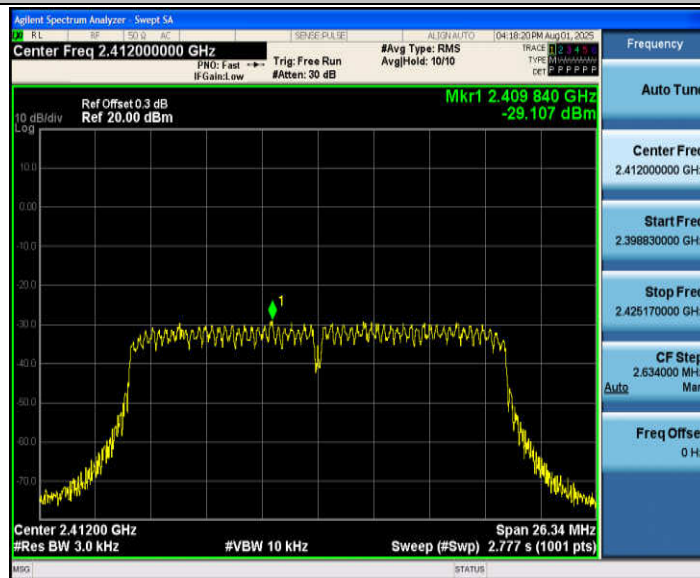
11G_Ant1_2437



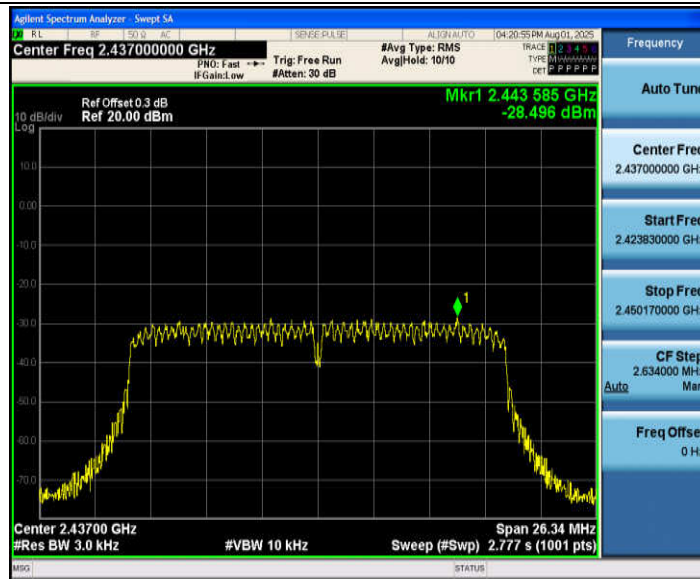
11G_Ant1_2462



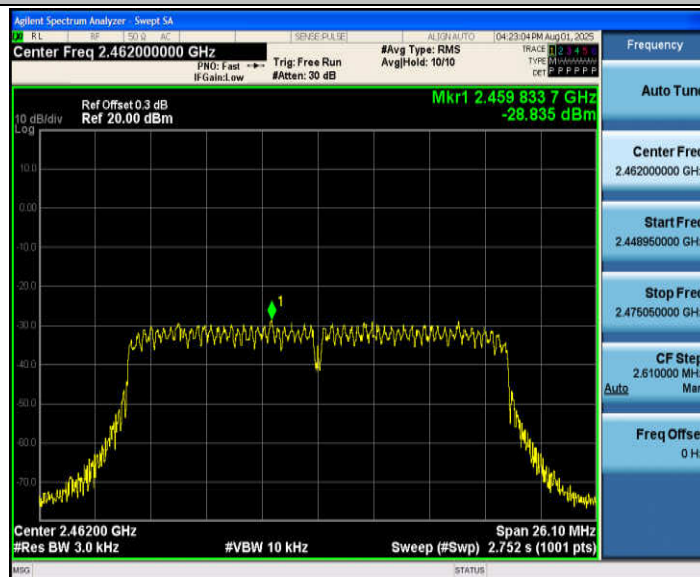
11N20SISO_Ant1_2412



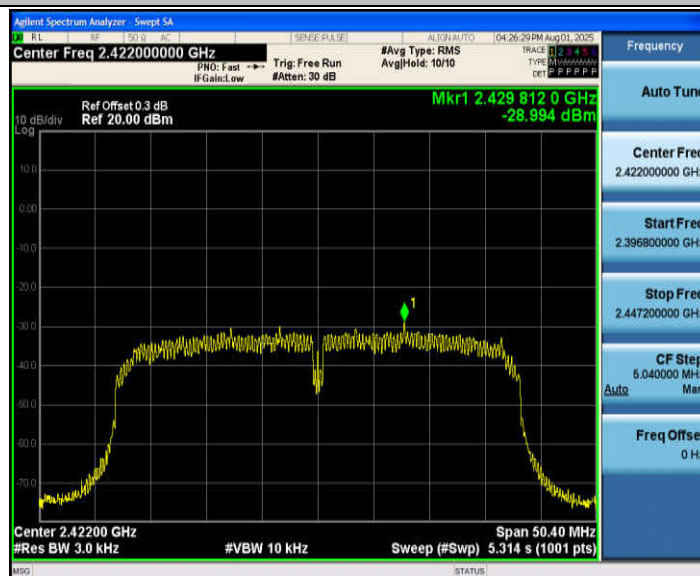
11N20SISO_Ant1_2437



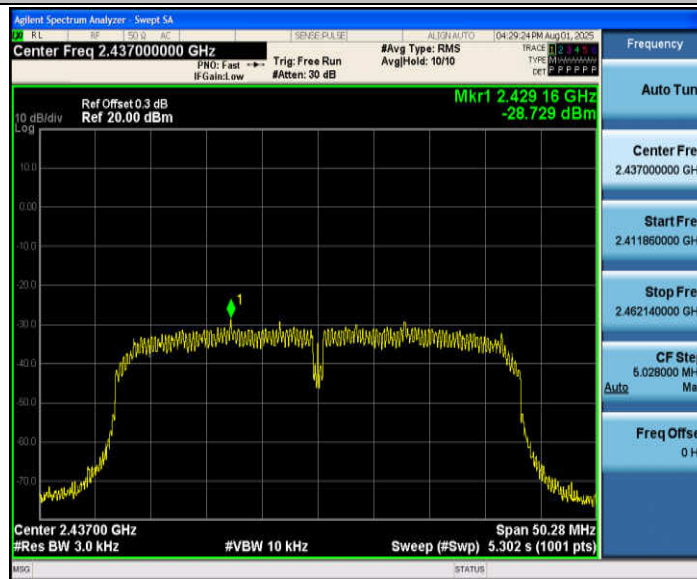
11N20SISO_Ant1_2462



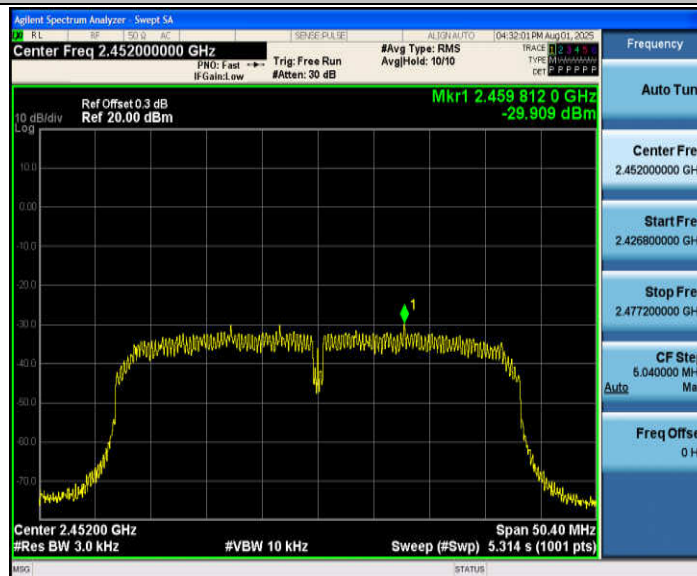
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



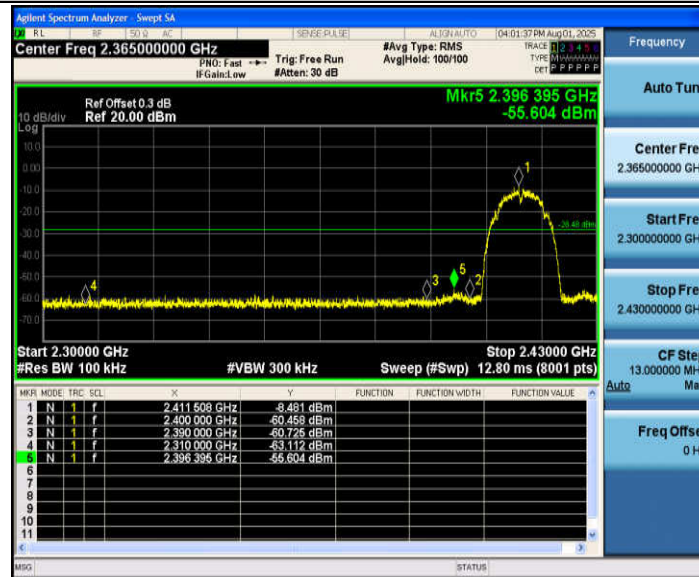
Appendix E: Band edge measurements

Test Result

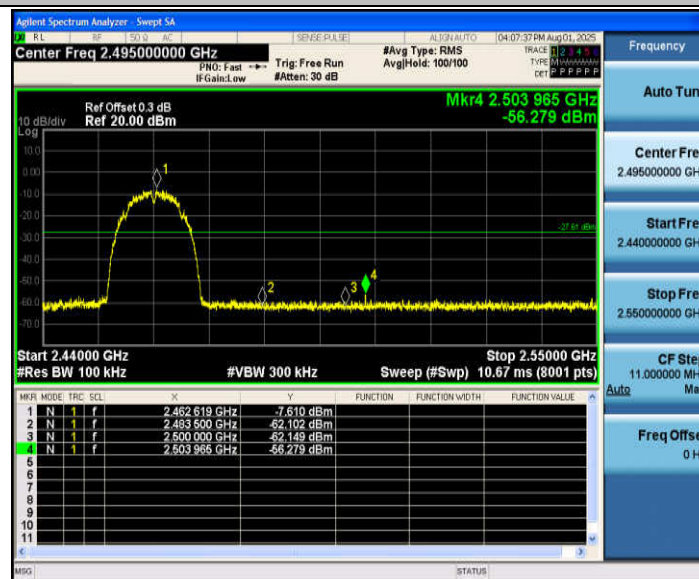
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-8.48	-55.6	≤-28.48	PASS
		High	2462	-7.61	-56.28	≤-27.61	PASS
11G	Ant1	Low	2412	-15.07	-56.61	≤-35.07	PASS
		High	2462	-15.27	-57.74	≤-35.27	PASS
11N20SISO	Ant1	Low	2412	-15.25	-57.08	≤-35.25	PASS
		High	2462	-14.98	-57.91	≤-34.98	PASS
11N40SISO	Ant1	Low	2422	-17.50	-56.49	≤-37.5	PASS
		High	2452	-18.31	-57.25	≤-38.31	PASS

Test Graphs

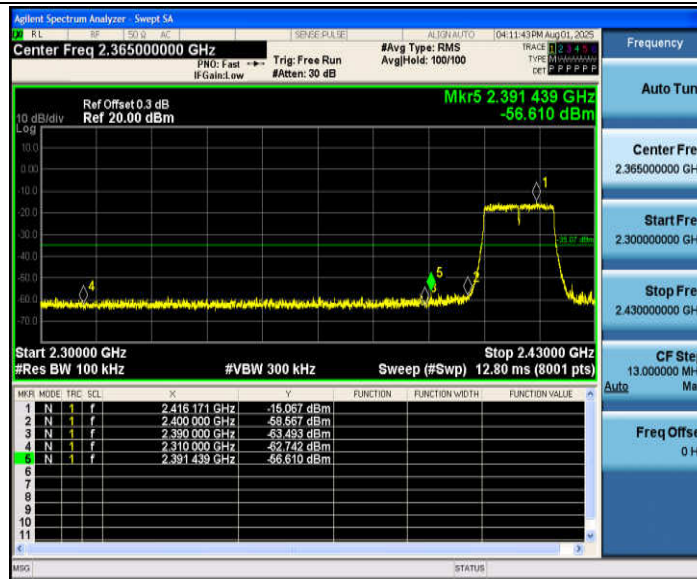
11B_Ant1_Low_2412



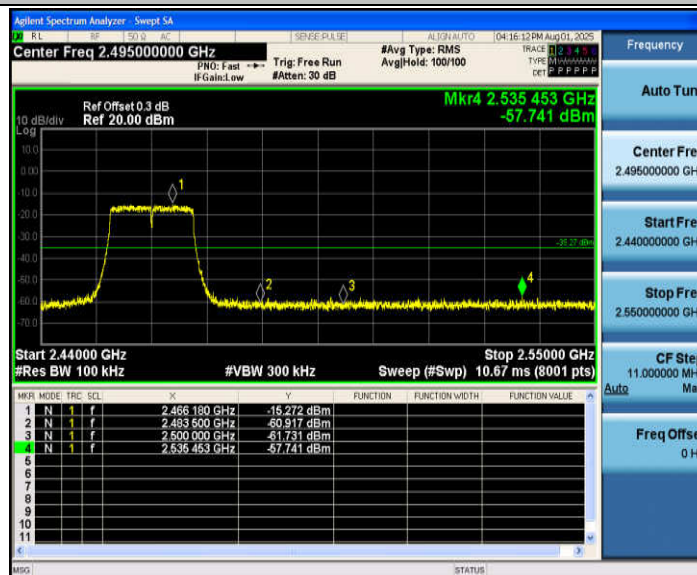
11B_Ant1_High_2462



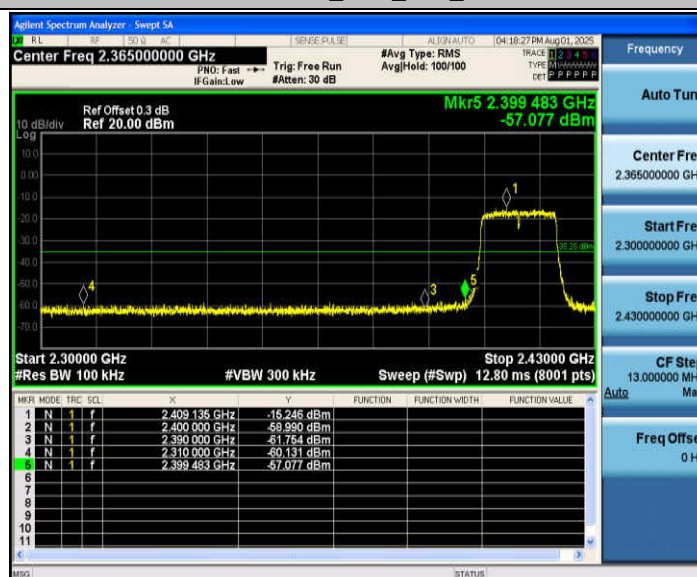
11G_Ant1_Low_2412



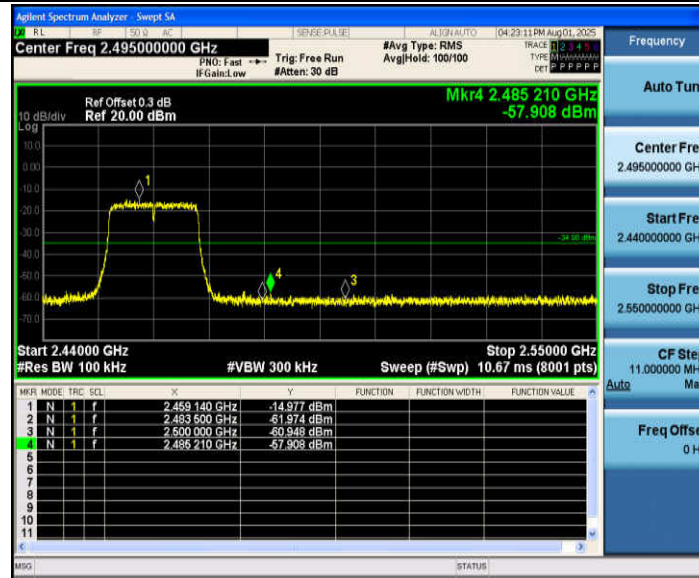
11G_Ant1_High_2462



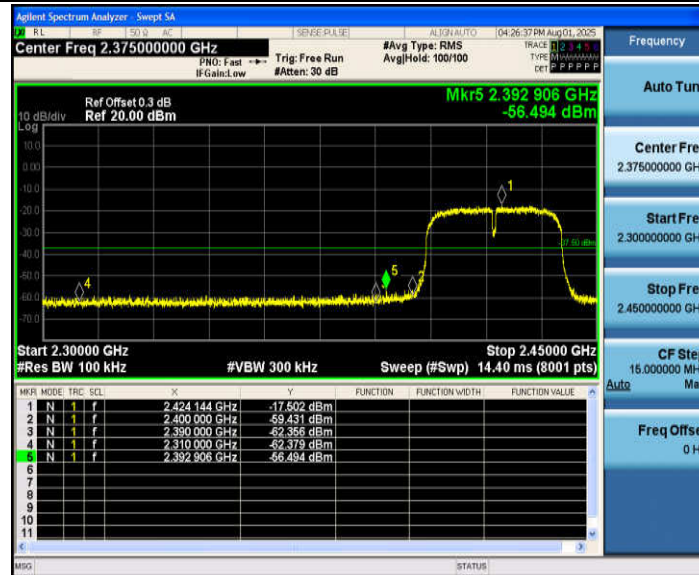
11N20SISO_Ant1_Low_2412



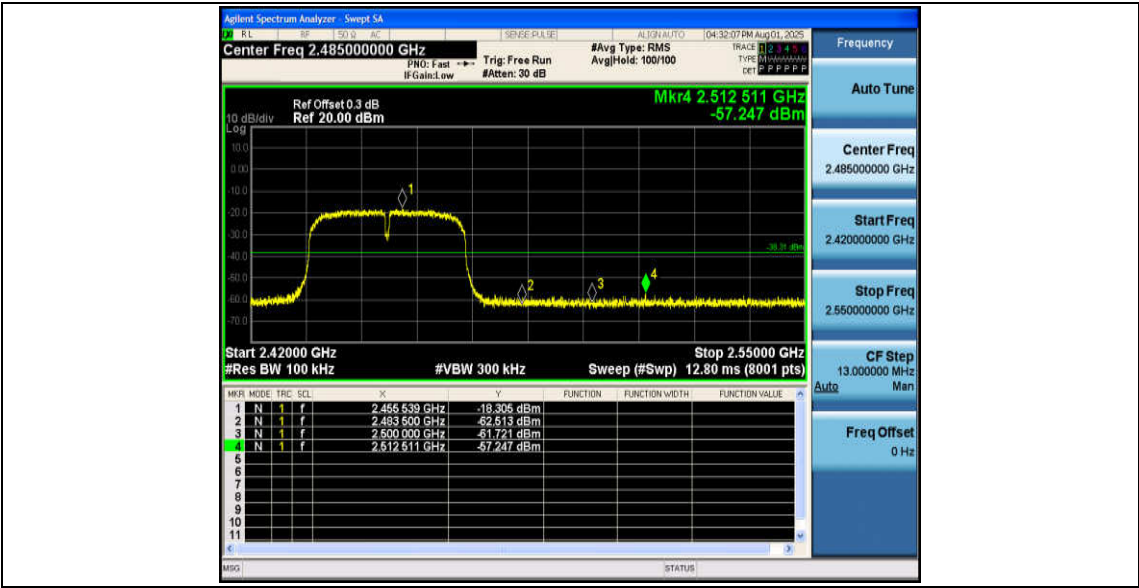
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



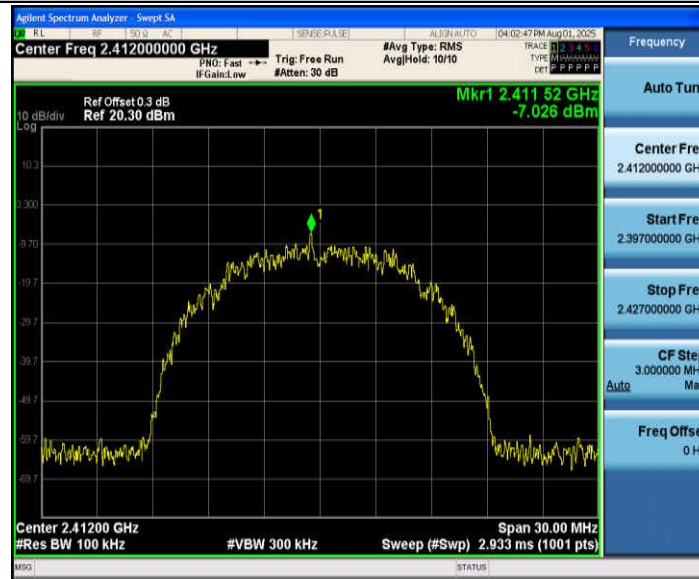
Appendix F: Conducted Spurious Emission

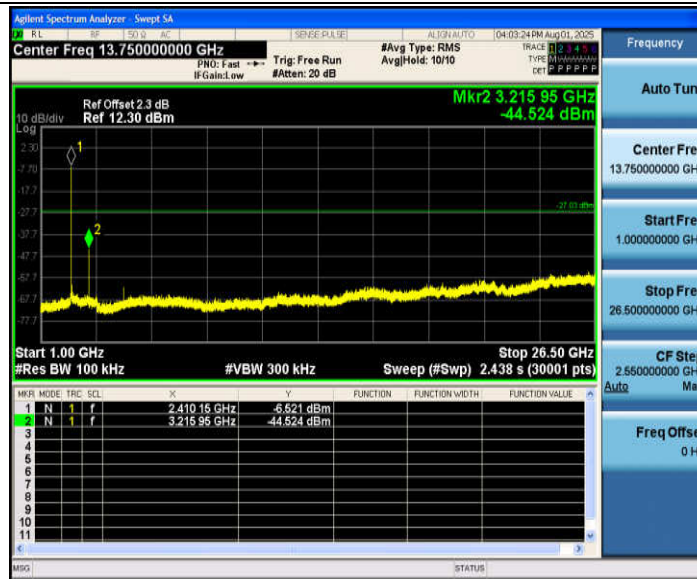
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-7.03	-7.03	---	PASS
			30~1000	-7.03	-61.86	≤-27.03	PASS
			1000~26500	-7.03	-44.52	≤-27.03	PASS
		2437	Reference	-8.95	-8.95	---	PASS
			30~1000	-8.95	-60.45	≤-28.95	PASS
			1000~26500	-8.95	-45.71	≤-28.95	PASS
		2462	Reference	-10.03	-10.03	---	PASS
			30~1000	-10.03	-60.54	≤-30.03	PASS
			1000~26500	-10.03	-46.29	≤-30.03	PASS
11G	Ant1	2412	Reference	-15.91	-15.91	---	PASS
			30~1000	-15.91	-64.1	≤-35.91	PASS
			1000~26500	-15.91	-44.71	≤-35.91	PASS
		2437	Reference	-15.50	-15.50	---	PASS
			30~1000	-15.50	-65.18	≤-35.5	PASS
			1000~26500	-15.50	-44.9	≤-35.5	PASS
		2462	Reference	-15.60	-15.60	---	PASS
			30~1000	-15.60	-64.65	≤-35.6	PASS
			1000~26500	-15.60	-45.43	≤-35.6	PASS
11N20SISO	Ant1	2412	Reference	-16.36	-16.36	---	PASS
			30~1000	-16.36	-64.71	≤-36.36	PASS
			1000~26500	-16.36	-44.72	≤-36.36	PASS
		2437	Reference	-15.54	-15.54	---	PASS
			30~1000	-15.54	-64.81	≤-35.54	PASS
			1000~26500	-15.54	-45.02	≤-35.54	PASS
		2462	Reference	-16.00	-16.00	---	PASS
			30~1000	-16.00	-64.59	≤-36	PASS
			1000~26500	-16.00	-45.48	≤-36	PASS
11N40SISO	Ant1	2422	Reference	-18.15	-18.15	---	PASS
			30~1000	-18.15	-65.87	≤-38.15	PASS
			1000~26500	-18.15	-44.85	≤-38.15	PASS
		2437	Reference	-17.21	-17.21	---	PASS
			30~1000	-17.21	-65.89	≤-37.21	PASS
			1000~26500	-17.21	-45.02	≤-37.21	PASS
		2452	Reference	-18.35	-18.35	---	PASS
			30~1000	-18.35	-66.02	≤-38.35	PASS
			1000~26500	-18.35	-45.35	≤-38.35	PASS

Test Graphs

11B_Ant1_2412_0~Reference

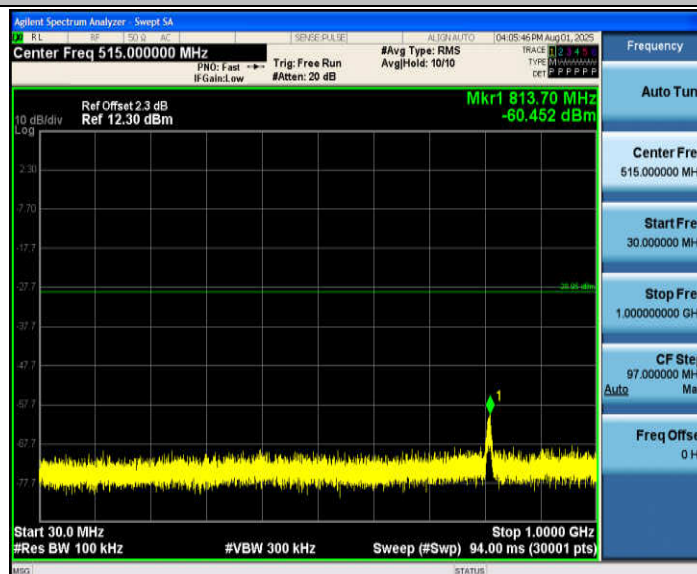




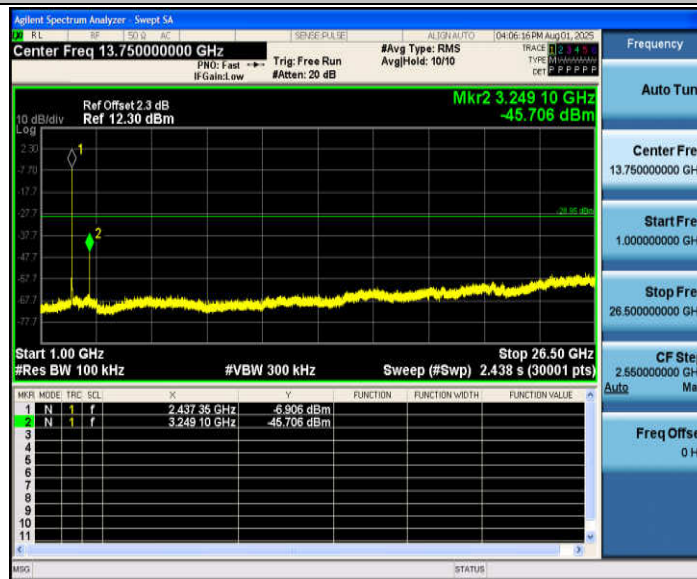
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



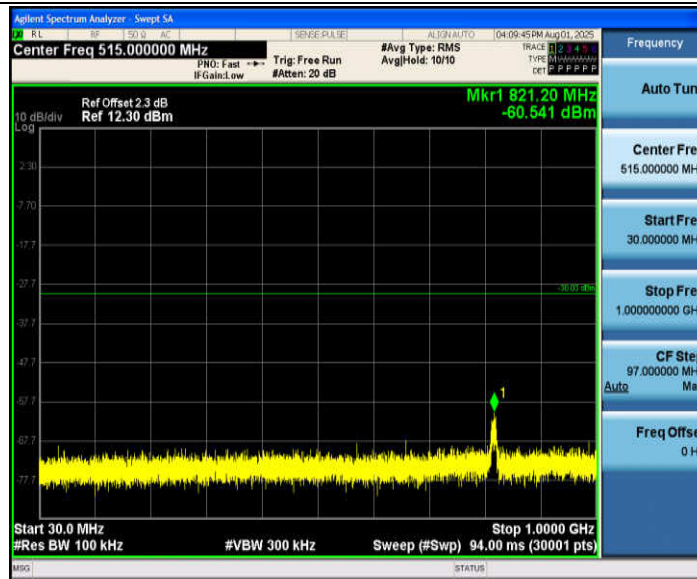
11B_Ant1_2437_1000~26500



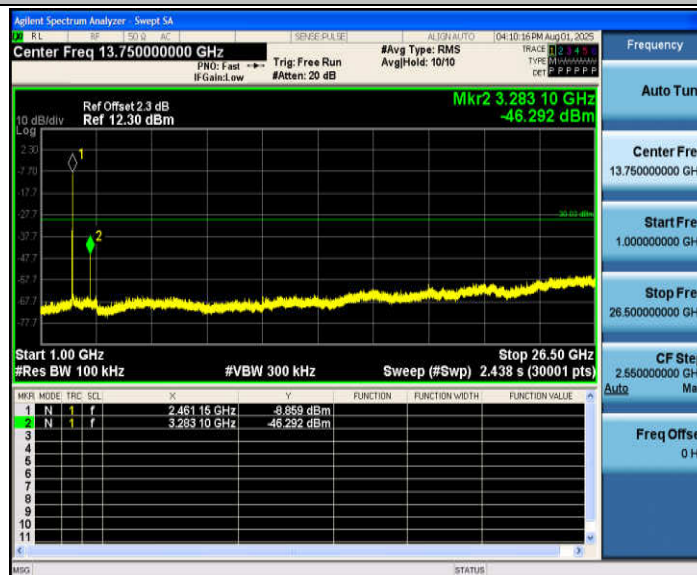
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



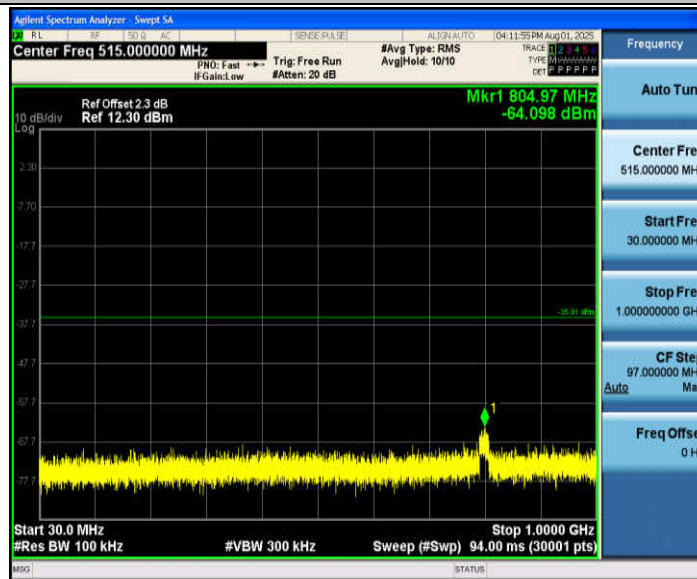
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



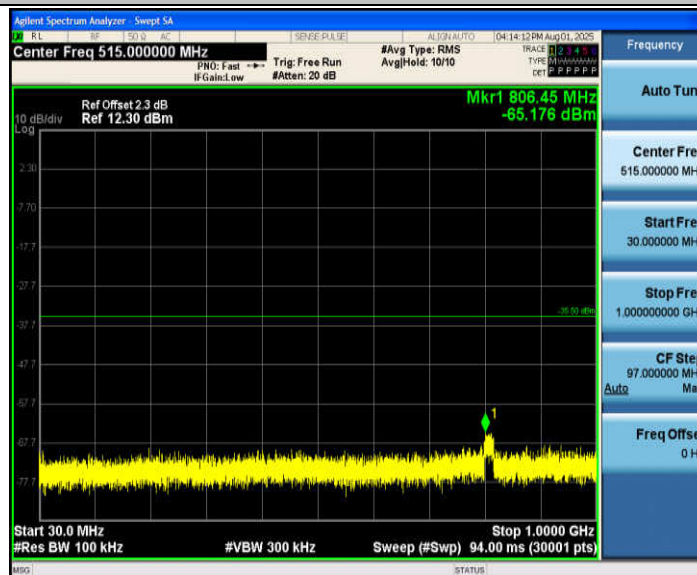
11G_Ant1_2412_1000~26500



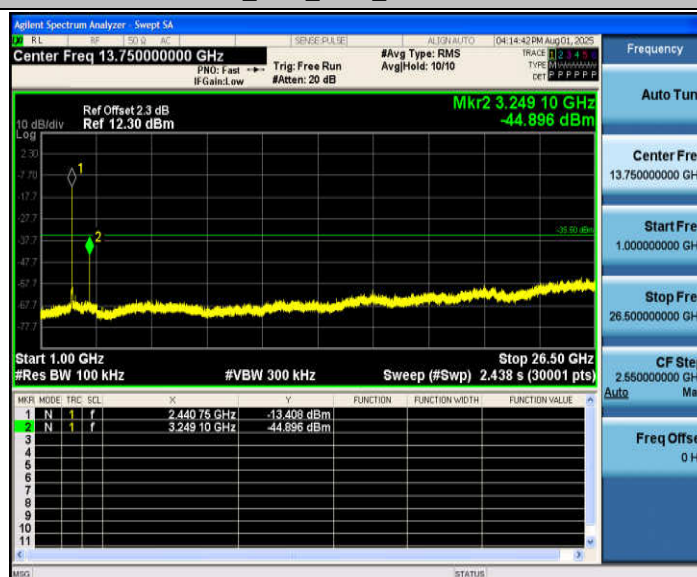
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



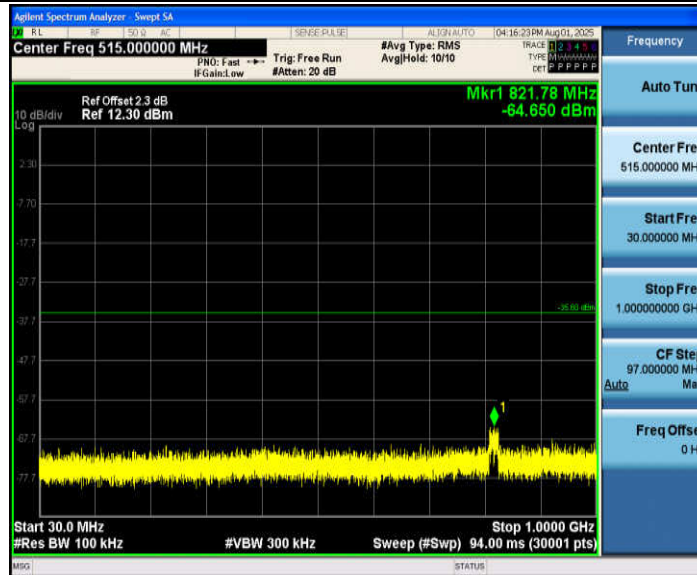
11G_Ant1_2437_1000~26500



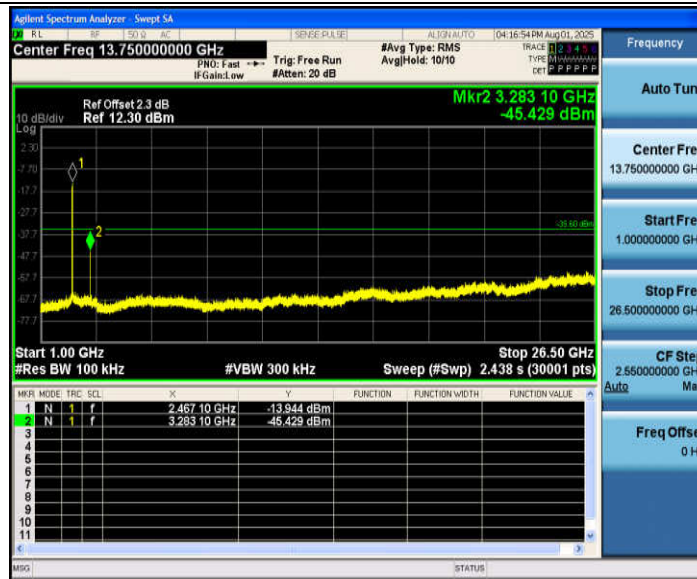
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



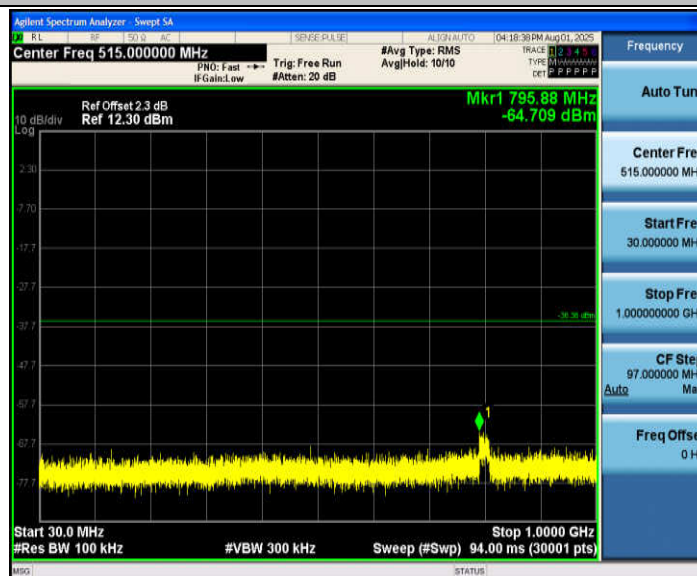
11G_Ant1_2462_1000~26500



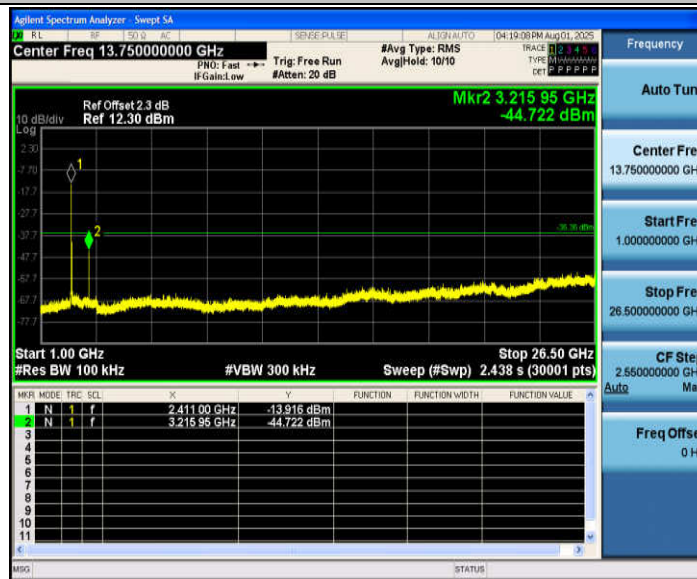
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



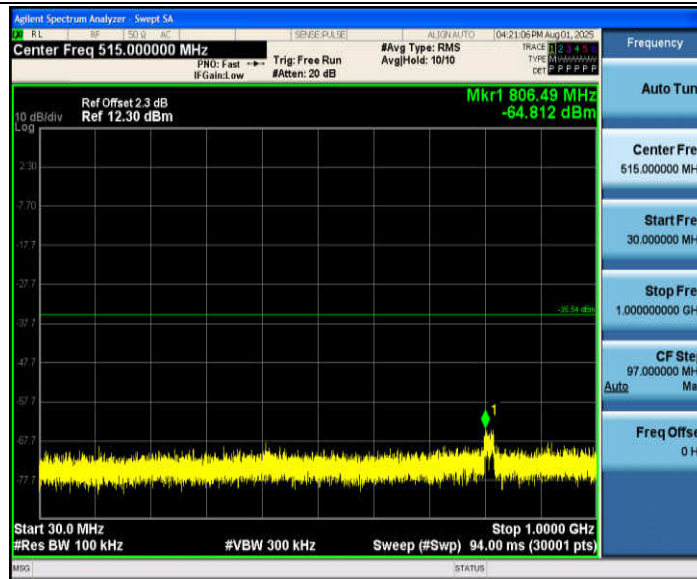
11N20SISO_Ant1_2412_1000~26500



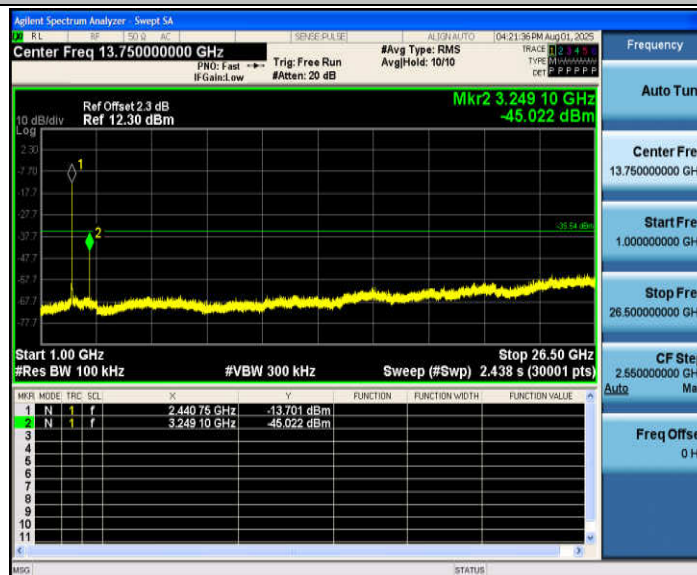
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



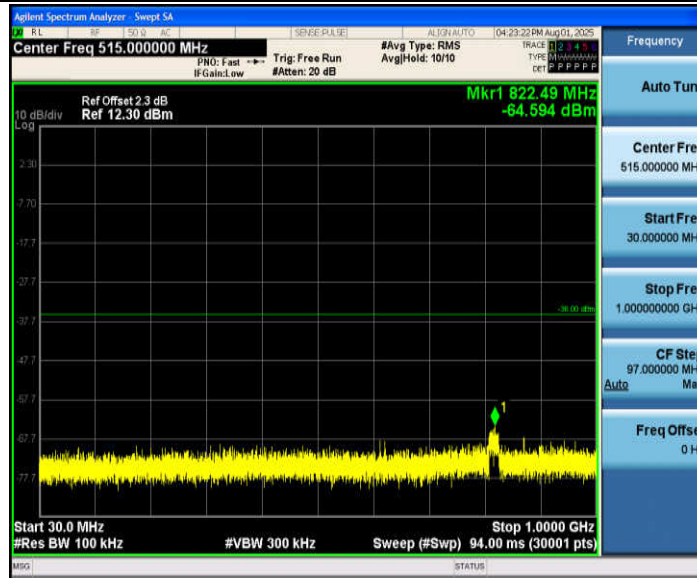
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



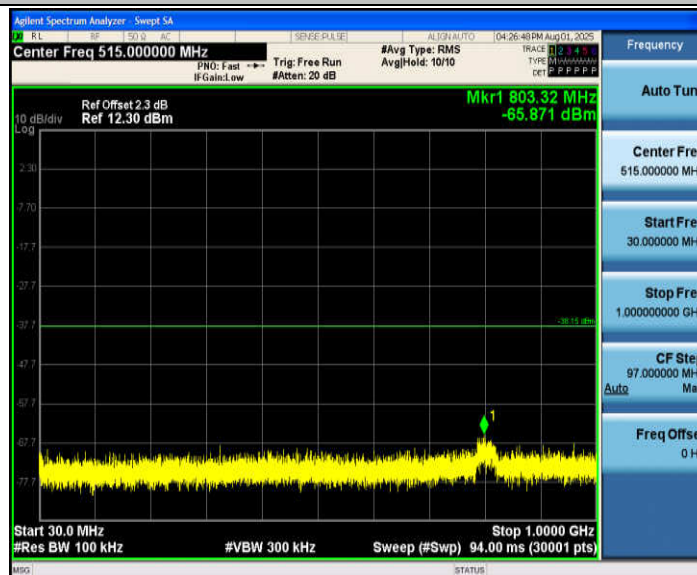
11N20SISO_Ant1_2462_1000~26500



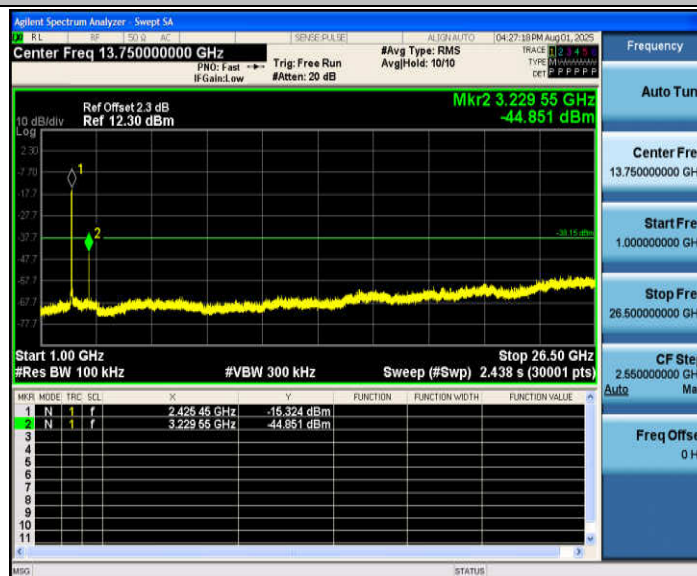
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



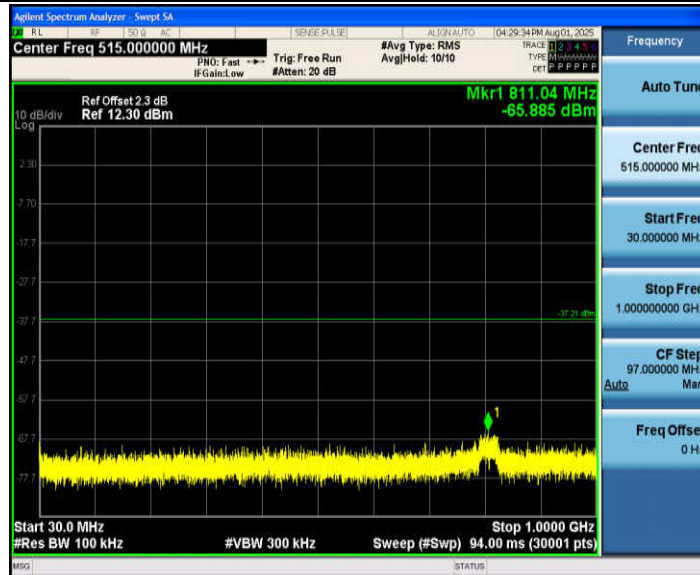
11N40SISO_Ant1_2422_1000~26500



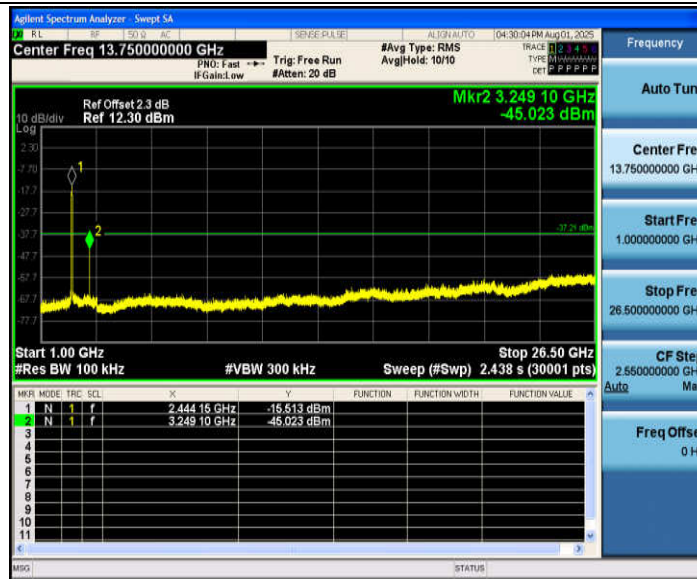
11N40SISO_Ant1_2437_0~Reference



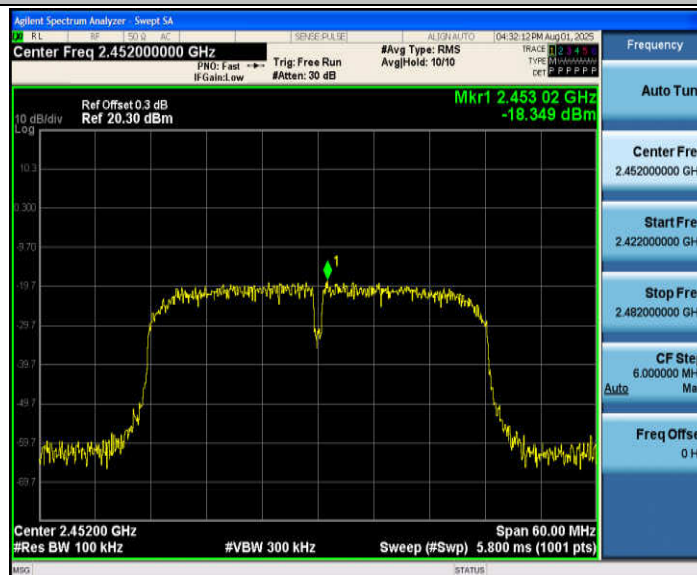
11N40SISO_Ant1_2437_30~1000



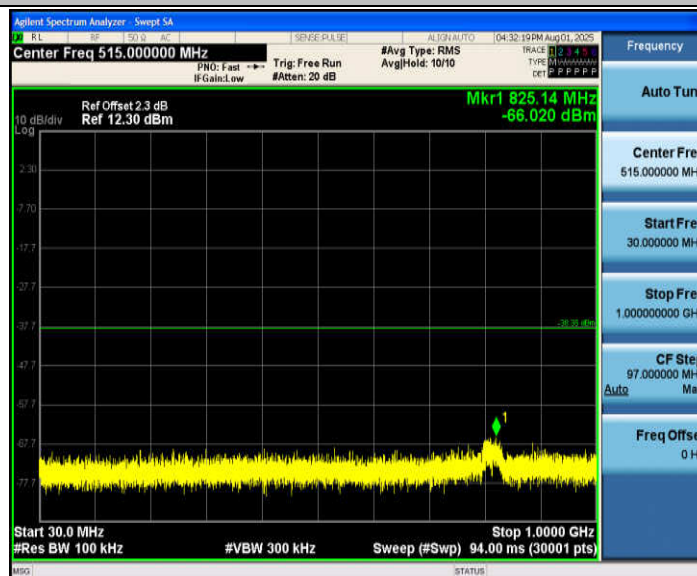
11N40SISO_Ant1_2437_1000~26500

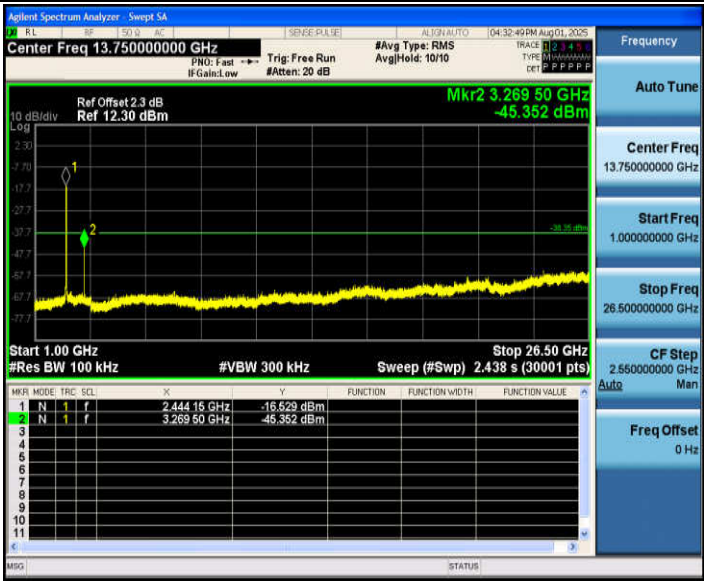


11N40ISO_Ant1_2452_0~Reference



11N40ISO_Ant1_2452_30~1000





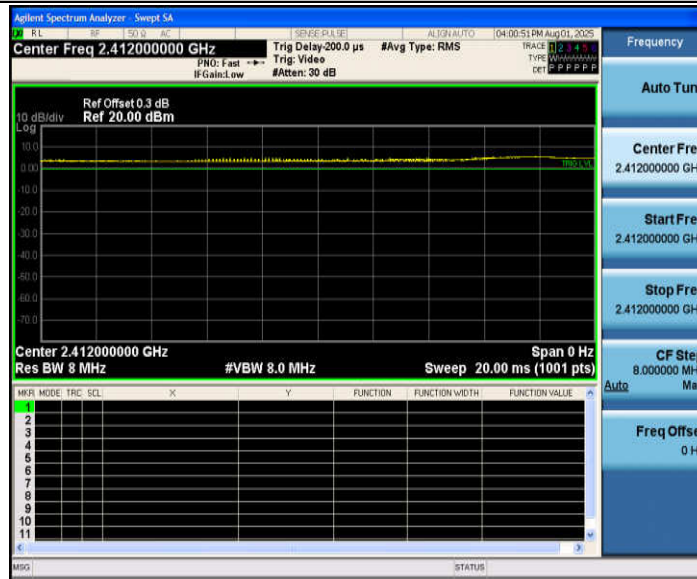
Appendix G: Duty Cycle

Test Result

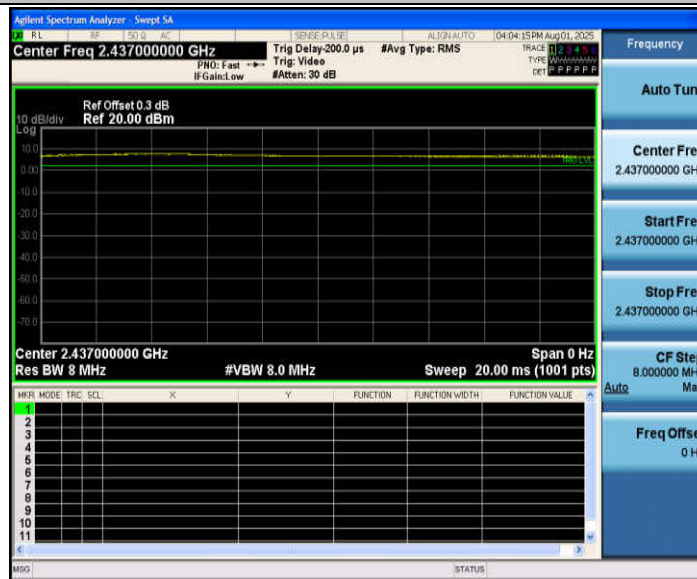
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11G	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11N20SISO	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11N40SISO	Ant1	2422	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2452	20.00	20.00	100.00

Test Graphs

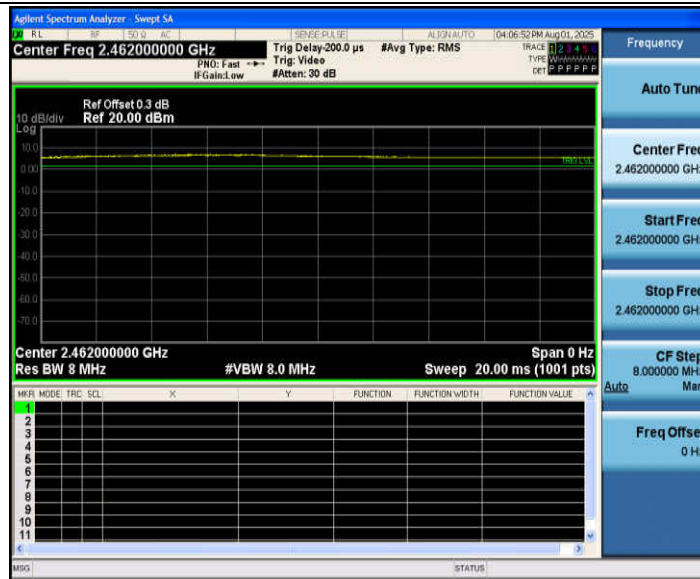
11B_Ant1_2412



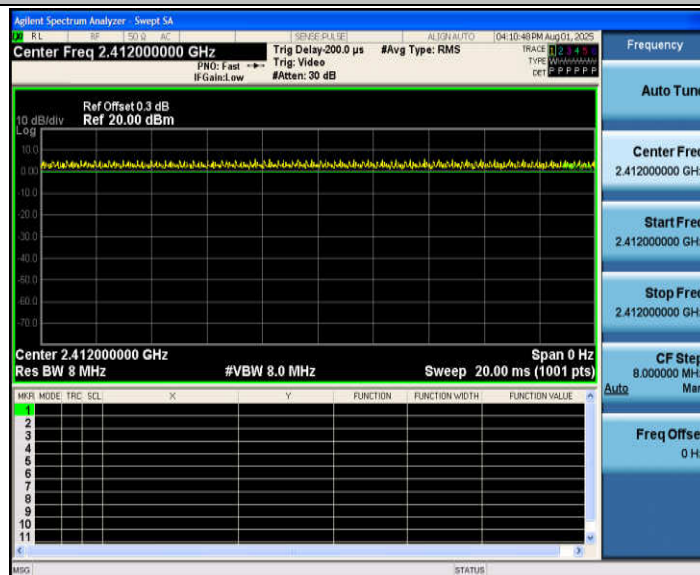
11B_Ant1_2437



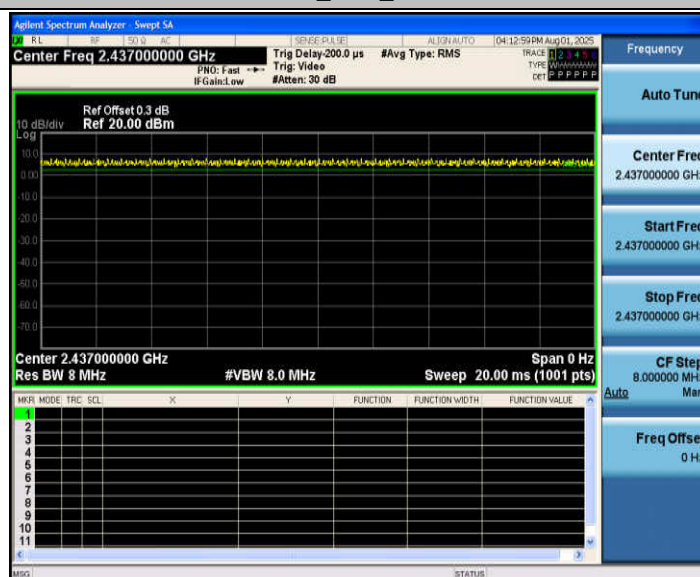
11B_Ant1_2462



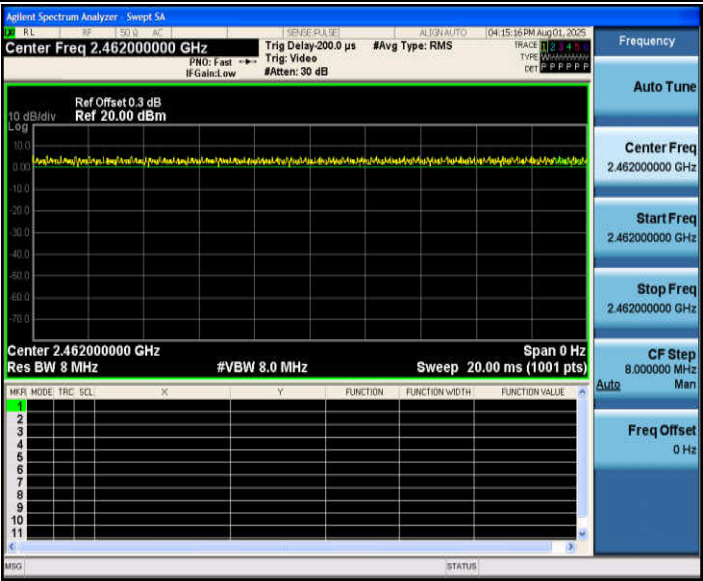
11G_Ant1_2412



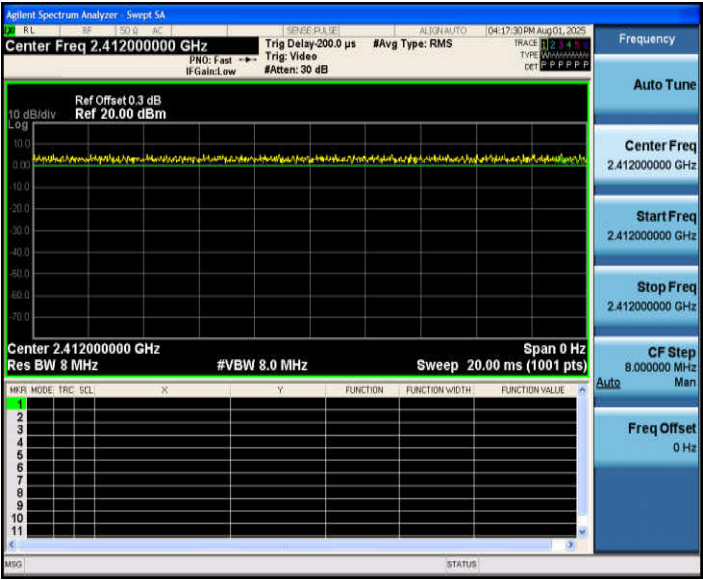
11G_Ant1_2437



11G_Ant1_2462



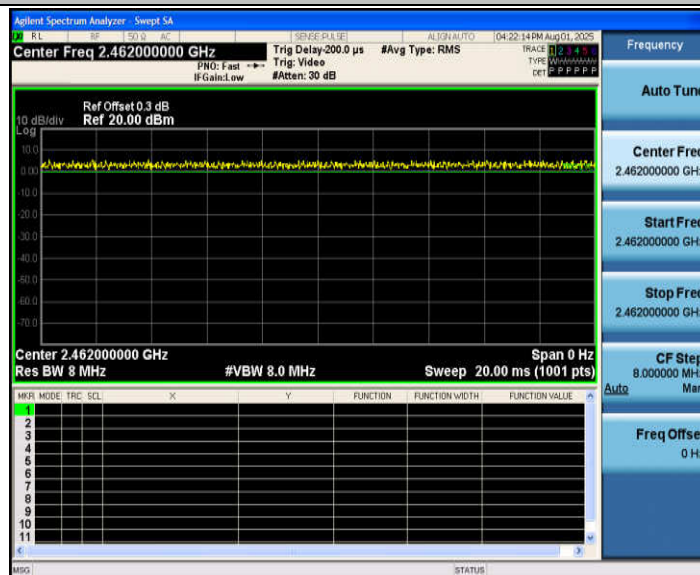
11N20SISO_Ant1_2412



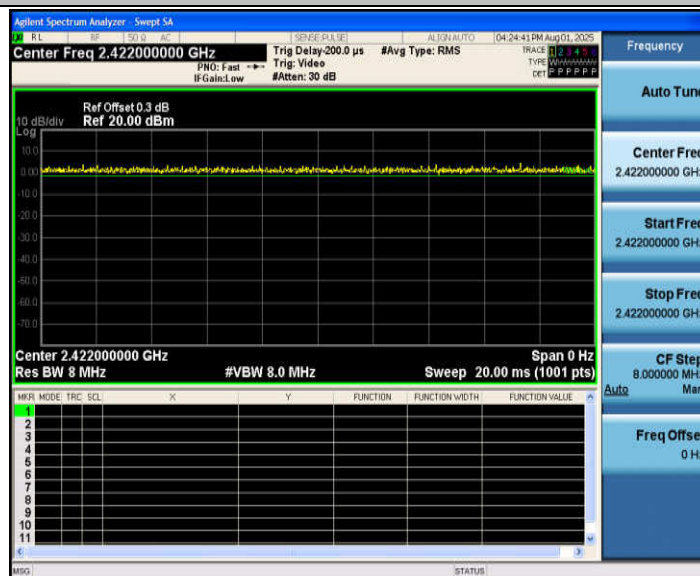
11N20SISO_Ant1_2437



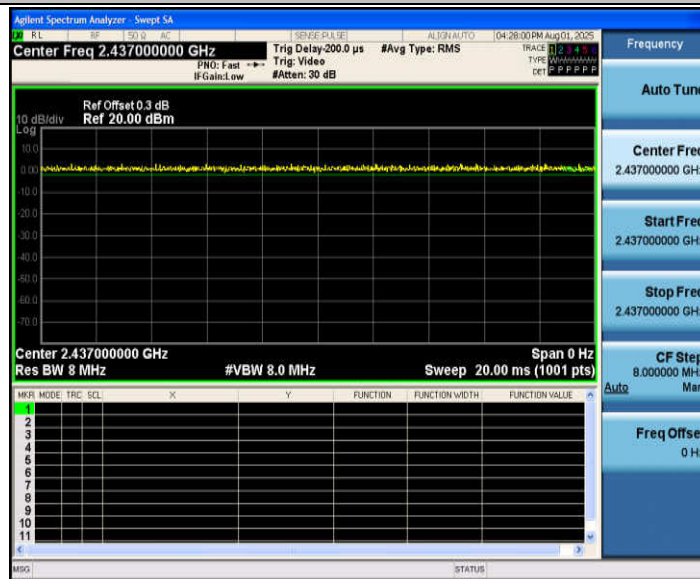
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

