

FCC Appendix RF Test Data

FCC ID : 2BF3Z-E03

Company : Shenzhen Taiyang Technology Co., Ltd

EUT : Smart Glasses

Model Number : E03

Report No. : CTA25060900703

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	8.760	2407.960	2416.720	0.5	PASS
		2437	9.560	2432.480	2442.040	0.5	PASS
		2462	10.000	2457.000	2467.000	0.5	PASS
11G	Ant1	2412	16.000	2403.880	2419.880	0.5	PASS
		2437	15.720	2429.440	2445.160	0.5	PASS
		2462	15.720	2453.840	2469.560	0.5	PASS
11N20SISO	Ant1	2412	16.280	2403.800	2420.080	0.5	PASS
		2437	15.800	2429.440	2445.240	0.5	PASS
		2462	16.320	2453.240	2469.560	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.240	2439.840	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	30.080	2434.480	2464.560	0.5	PASS

Test Graphs

11B_Ant1_2412



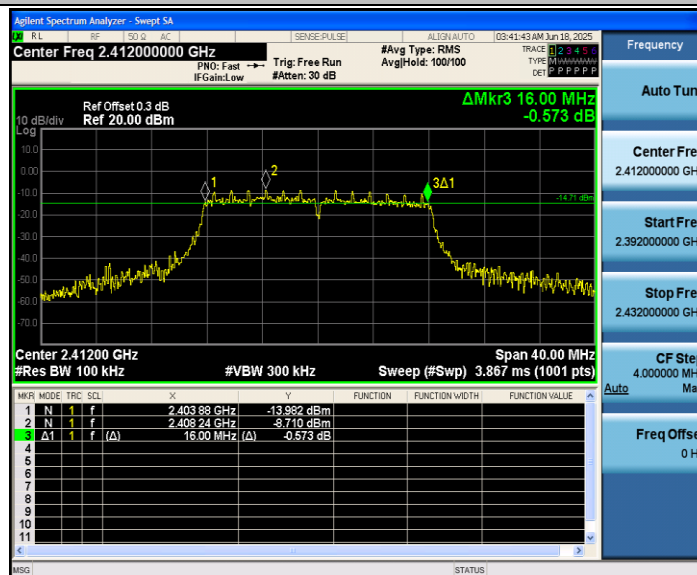
11B_Ant1_2437



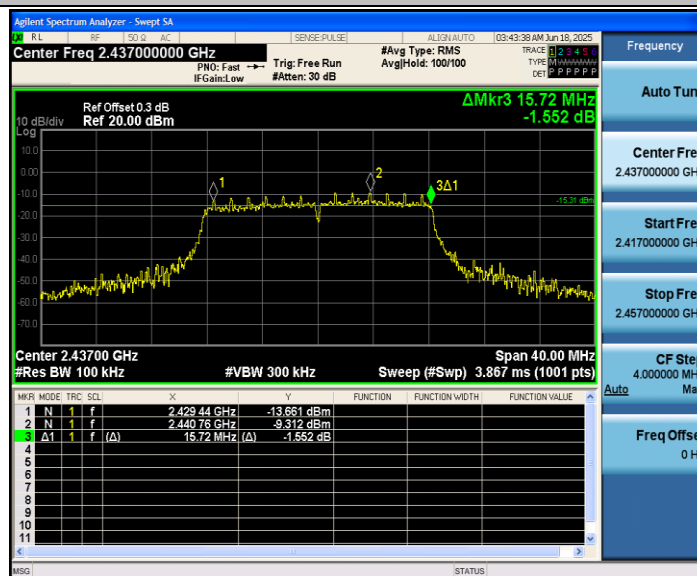
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



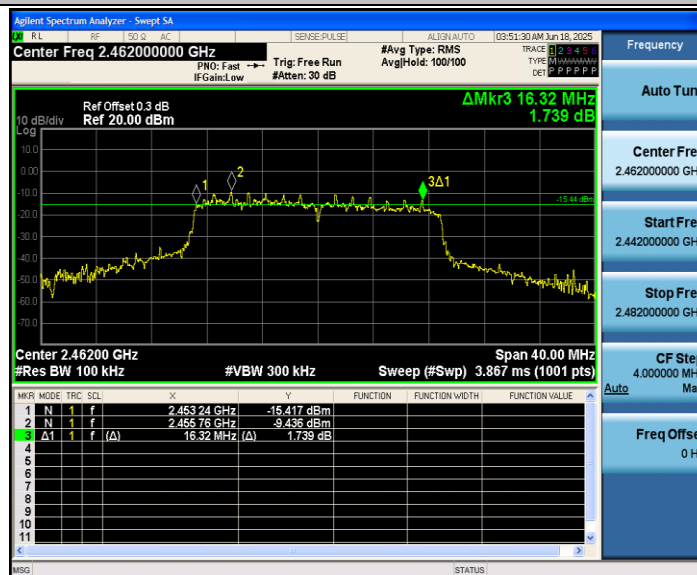
11N20SISO_Ant1_2412



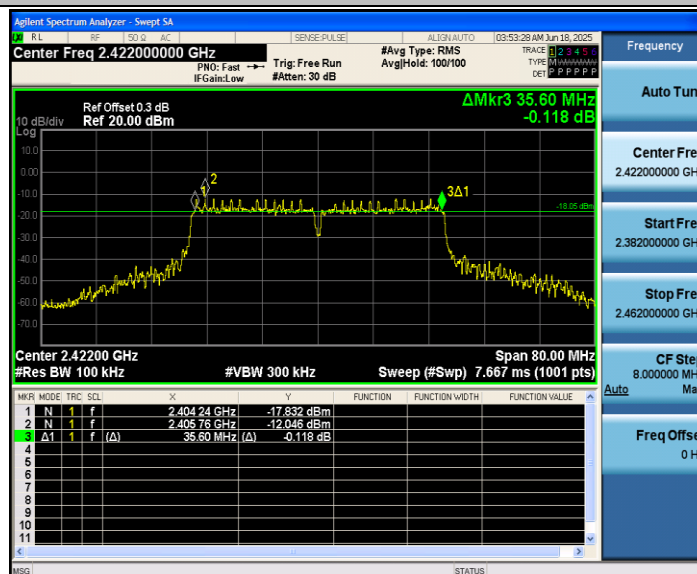
11N20SISO_Ant1_2437



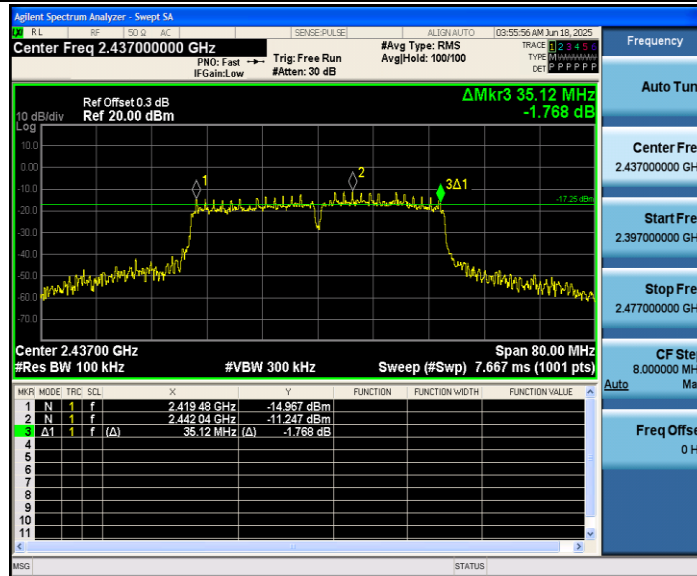
11N20SISO_Ant1_2462



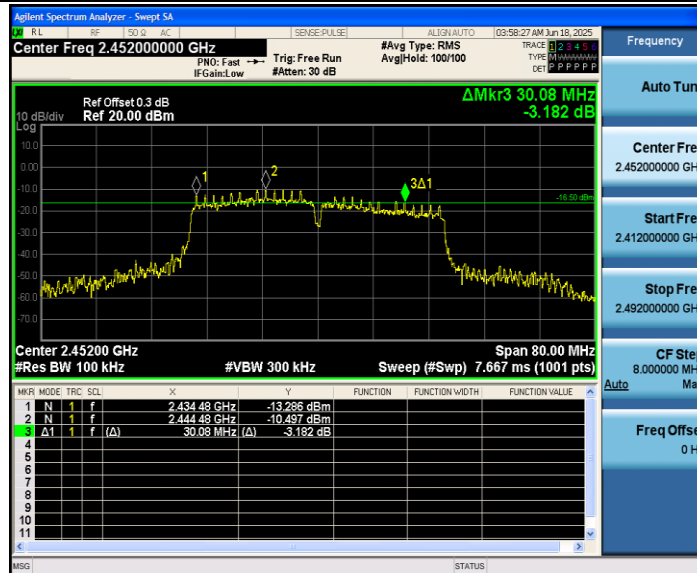
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



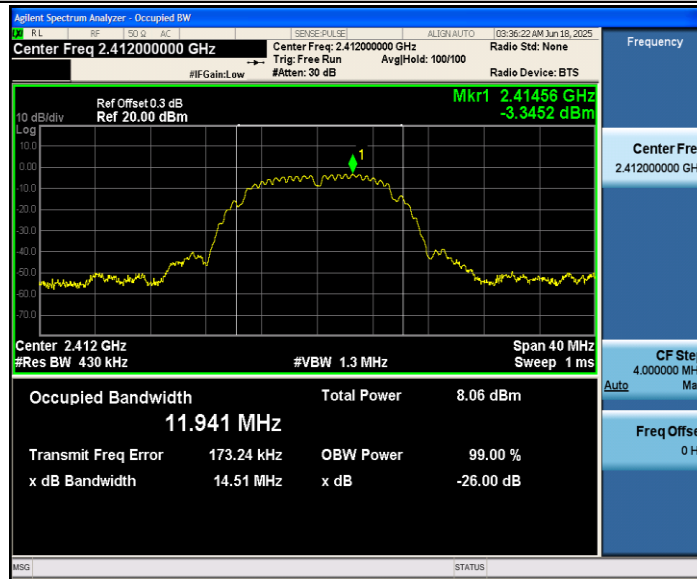
Appendix B: Occupied Channel Bandwidth

Test Result

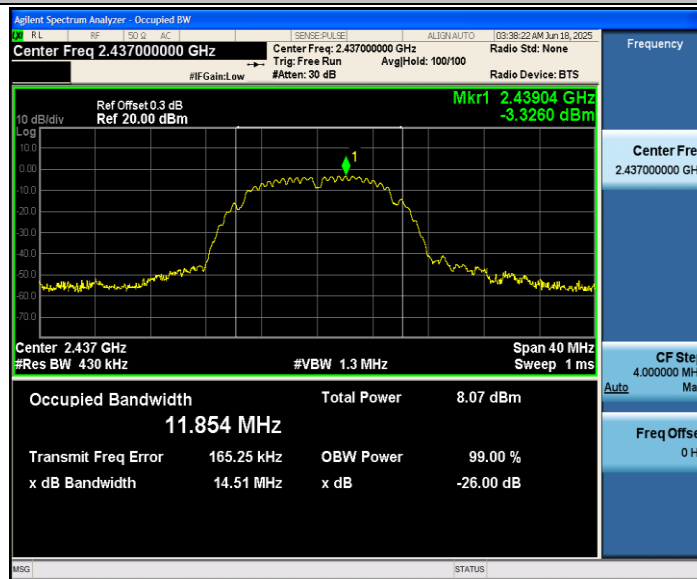
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.941	2406.2027	2418.1437	---	---
		2437	11.854	2431.2383	2443.0923	---	---
		2462	12.001	2456.1451	2468.1461	---	---
11G	Ant1	2412	16.626	2403.6753	2420.3013	---	---
		2437	16.599	2428.8233	2445.4223	---	---
		2462	16.794	2453.4503	2470.2443	---	---
11N20SISO	Ant1	2412	17.652	2403.1512	2420.8032	---	---
		2437	17.567	2428.3302	2445.8972	---	---
		2462	17.795	2452.9521	2470.7471	---	---
11N40SISO	Ant1	2422	36.448	2403.8868	2440.3348	---	---
		2437	36.031	2419.0976	2455.1286	---	---
		2452	35.758	2434.0266	2469.7846	---	---

Test Graphs

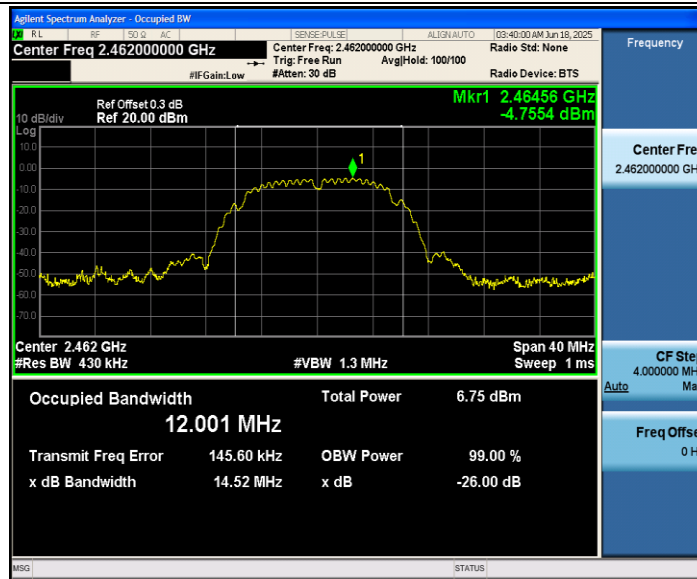
11B_Ant1_2412



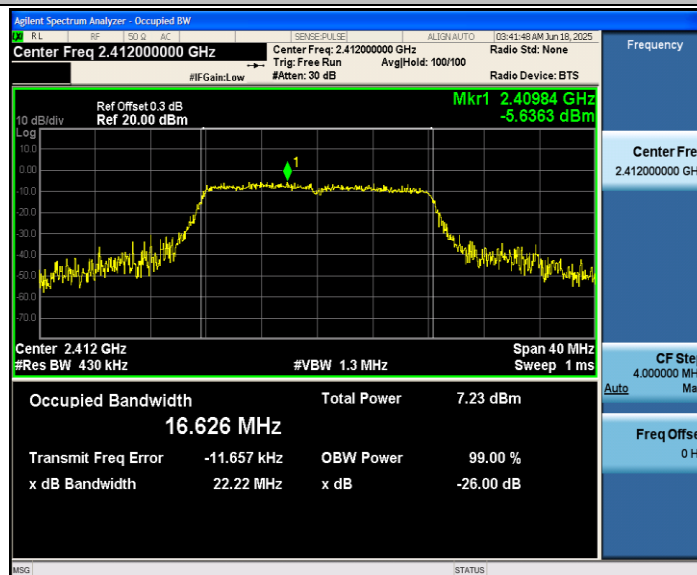
11B_Ant1_2437



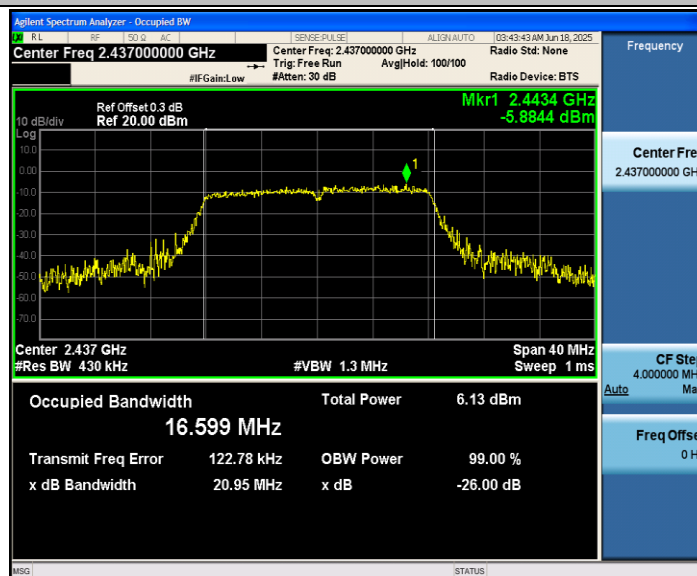
11B_Ant1_2462



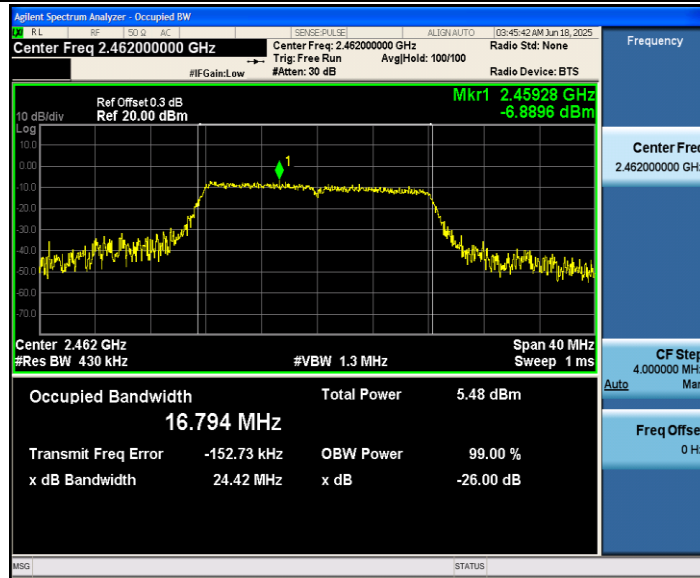
11G_Ant1_2412



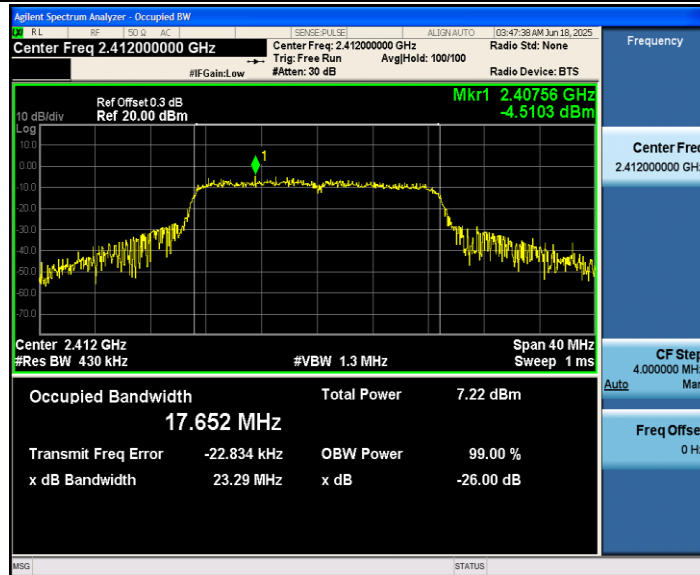
11G_Ant1_2437



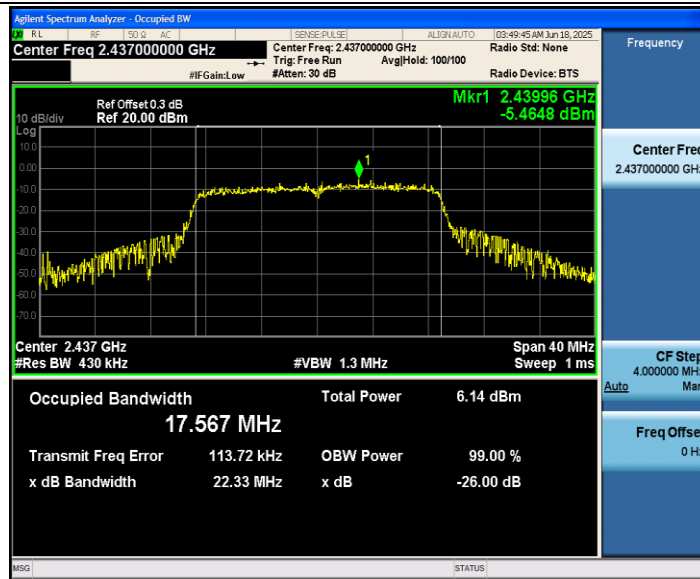
11G_Ant1_2462



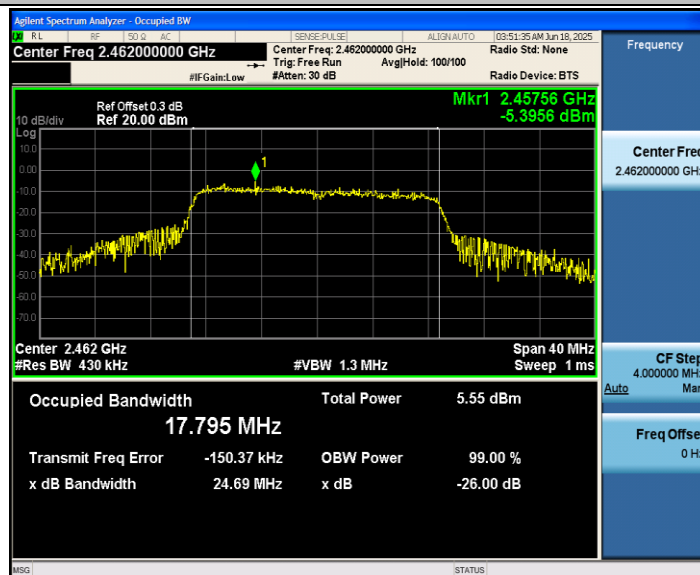
11N20SISO_Ant1_2412



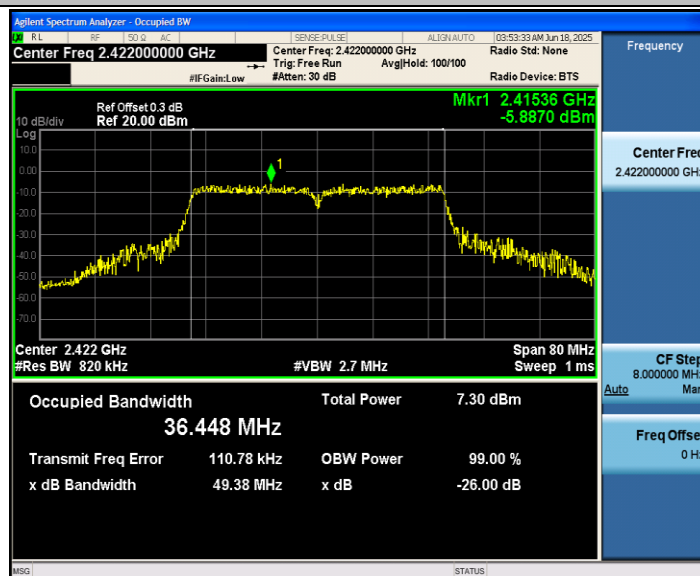
11N20SISO_Ant1_2437



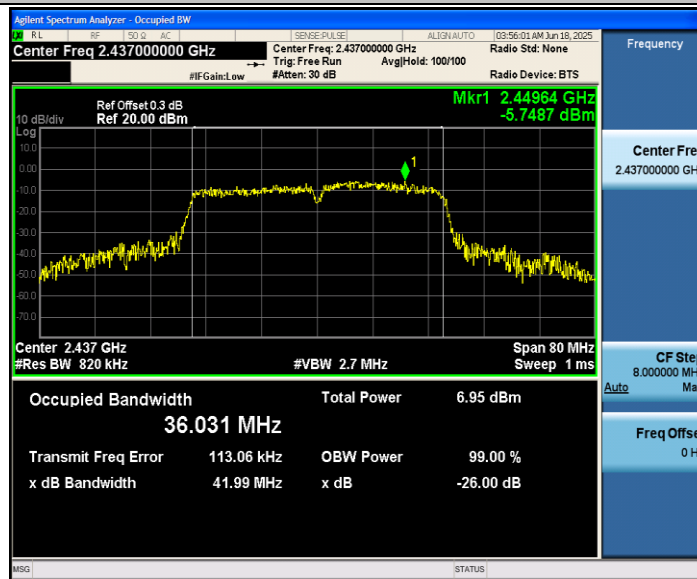
11N20SISO_Ant1_2462



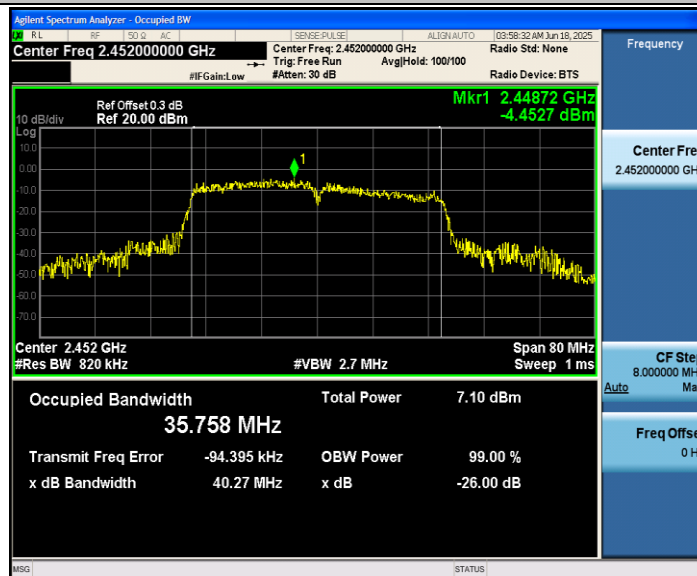
11N40SISO_Ant1_2422



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	7.76	≤30.00	PASS
		2437	8.00	≤30.00	PASS
		2462	6.72	≤30.00	PASS
11G	Ant1	2412	7.90	≤30.00	PASS
		2437	6.79	≤30.00	PASS
		2462	6.08	≤30.00	PASS
11N20SISO	Ant1	2412	7.90	≤30.00	PASS
		2437	6.58	≤30.00	PASS
		2462	6.28	≤30.00	PASS
11N40SISO	Ant1	2422	7.39	≤30.00	PASS
		2437	7.10	≤30.00	PASS
		2452	7.02	≤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	-17.56	≤8.00	PASS
		2437	-17.16	≤8.00	PASS
		2462	-19.44	≤8.00	PASS
11G	Ant1	2412	-23.71	≤8.00	PASS
		2437	-24.02	≤8.00	PASS
		2462	-25.83	≤8.00	PASS
11N20SISO	Ant1	2412	-24.40	≤8.00	PASS
		2437	-25.55	≤8.00	PASS
		2462	-25.48	≤8.00	PASS
11N40SISO	Ant1	2422	-27.77	≤8.00	PASS
		2437	-27.00	≤8.00	PASS
		2452	-26.80	≤8.00	PASS

Test Graphs

11B_Ant1_2412



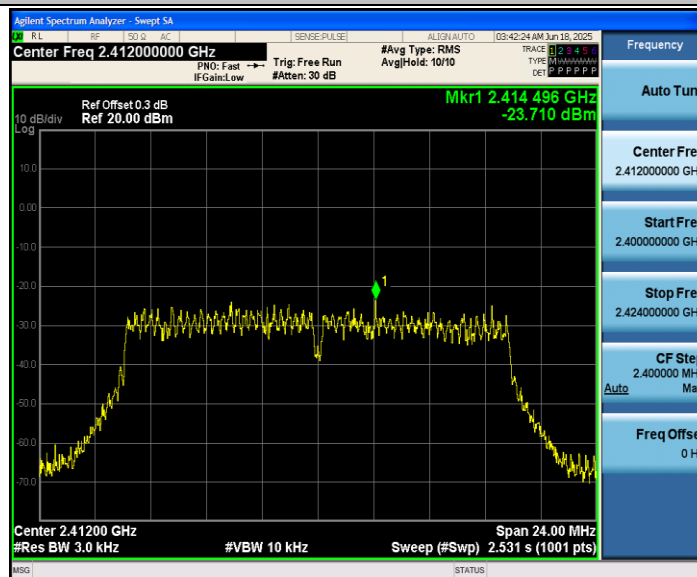
11B_Ant1_2437



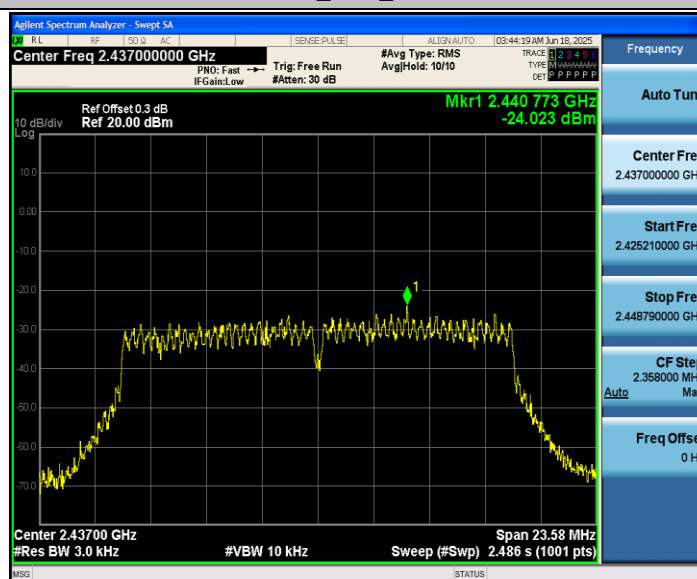
11B_Ant1_2462



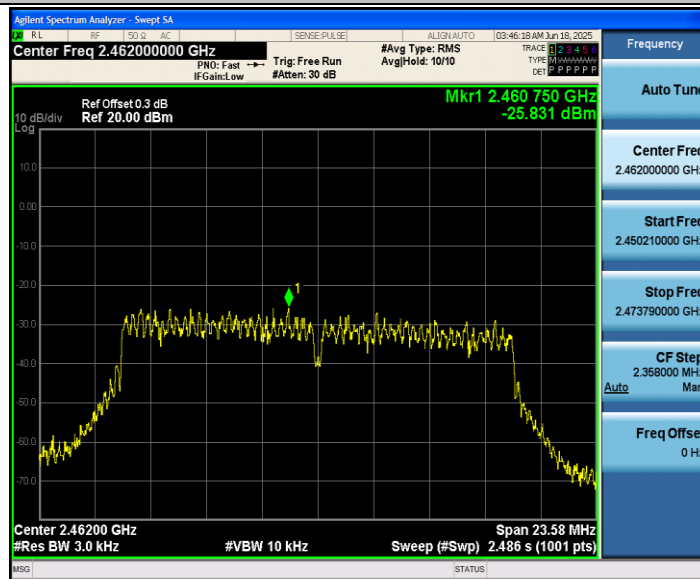
11G_Ant1_2412



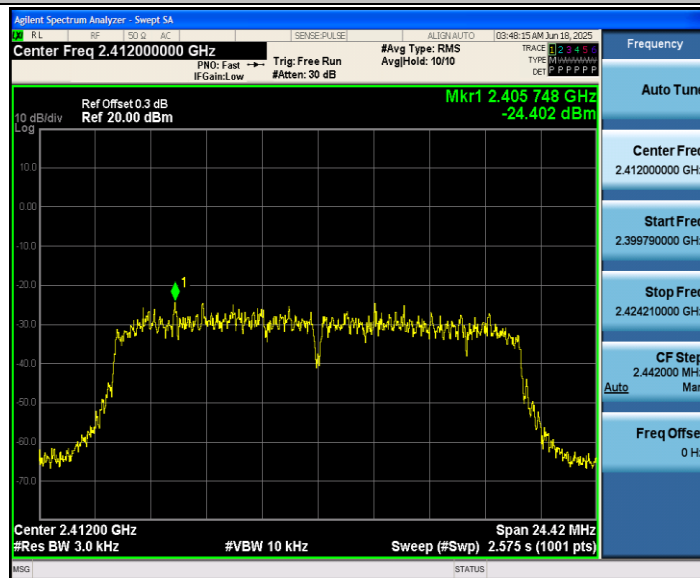
11G_Ant1_2437



11G_Ant1_2462



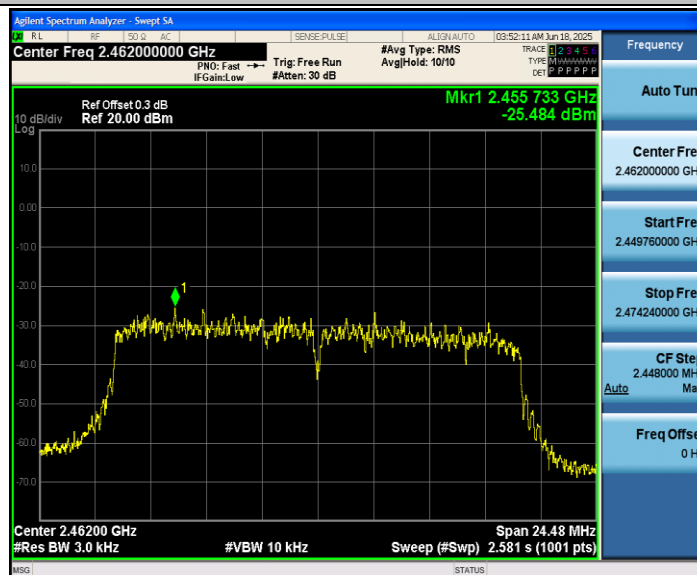
11N20SISO_Ant1_2412



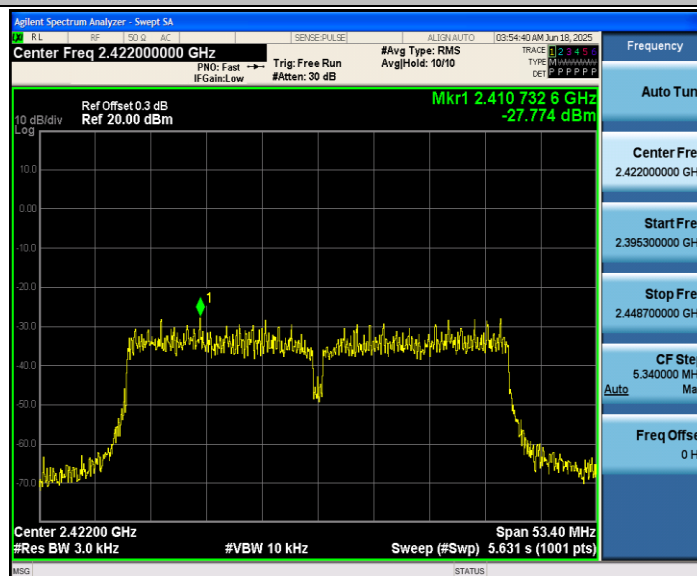
11N20SISO_Ant1_2437



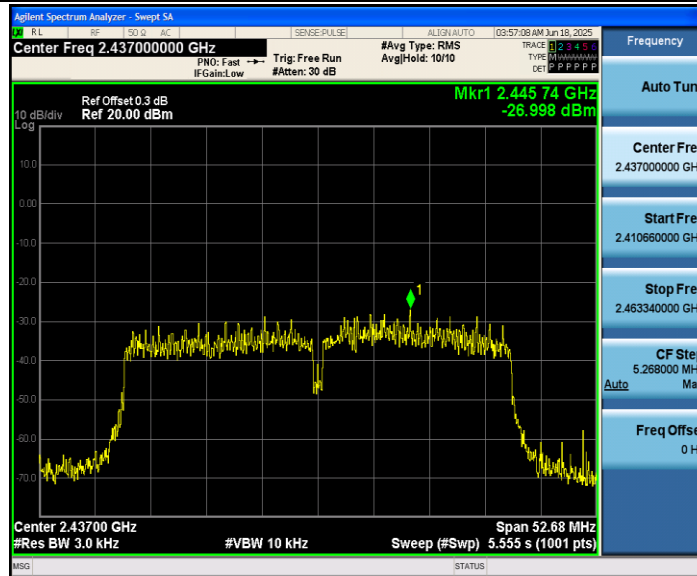
11N20SISO_Ant1_2462



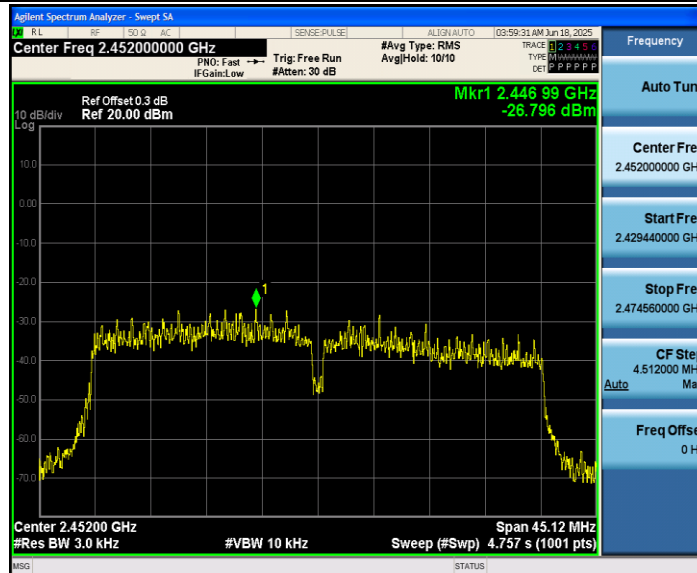
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



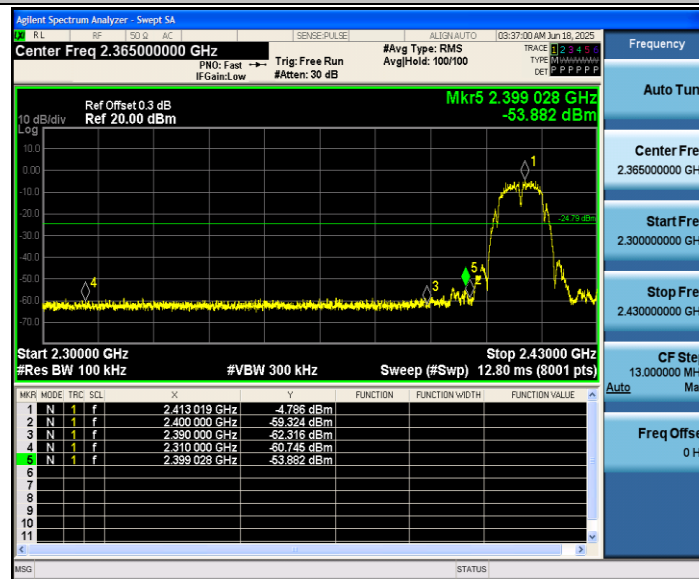
Appendix E: Band edge measurements

Test Result

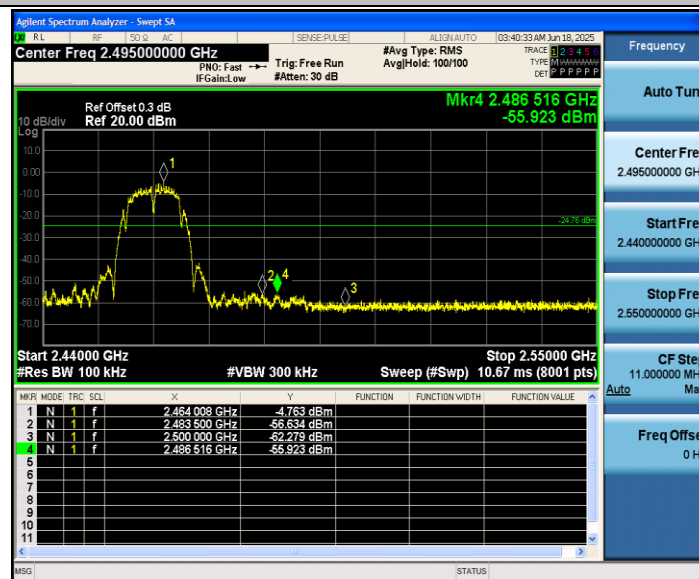
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-4.79	-53.88	≤-24.79	PASS
		High	2462	-4.76	-55.92	≤-24.76	PASS
11G	Ant1	Low	2412	-8.57	-40.67	≤-28.57	PASS
		High	2462	-9.21	-55.65	≤-29.21	PASS
11N20SISO	Ant1	Low	2412	-8.53	-42.72	≤-28.53	PASS
		High	2462	-9.46	-54.74	≤-29.46	PASS
11N40SISO	Ant1	Low	2422	-12.03	-42.85	≤-32.03	PASS
		High	2452	-10.54	-48.43	≤-30.54	PASS

Test Graphs

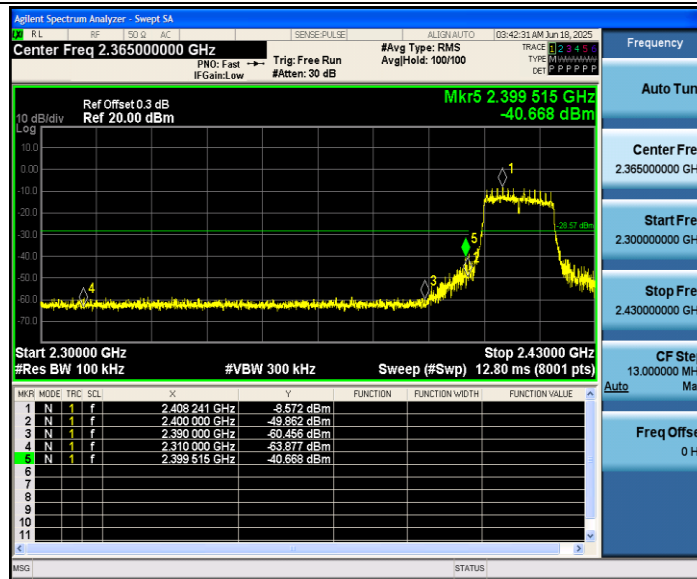
11B_Ant1_Low_2412



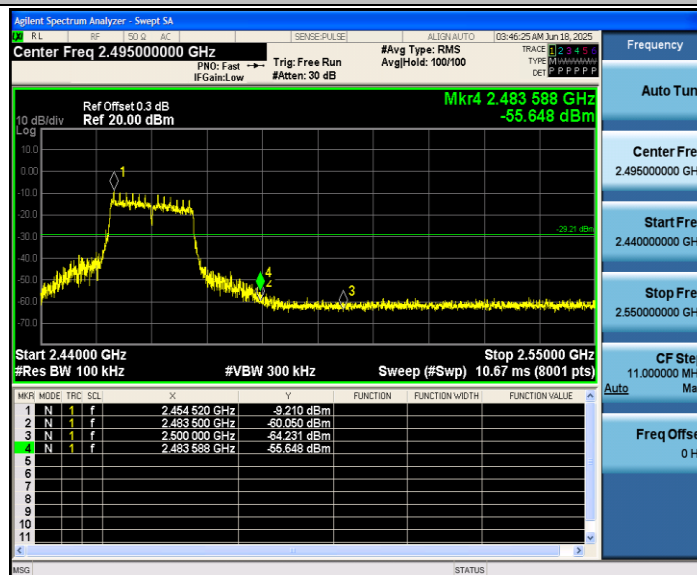
11B_Ant1_High_2462



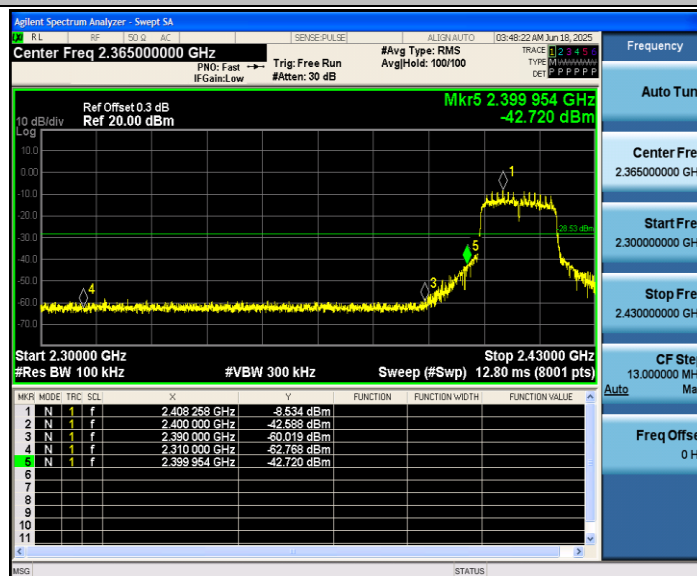
11G_Ant1_Low_2412



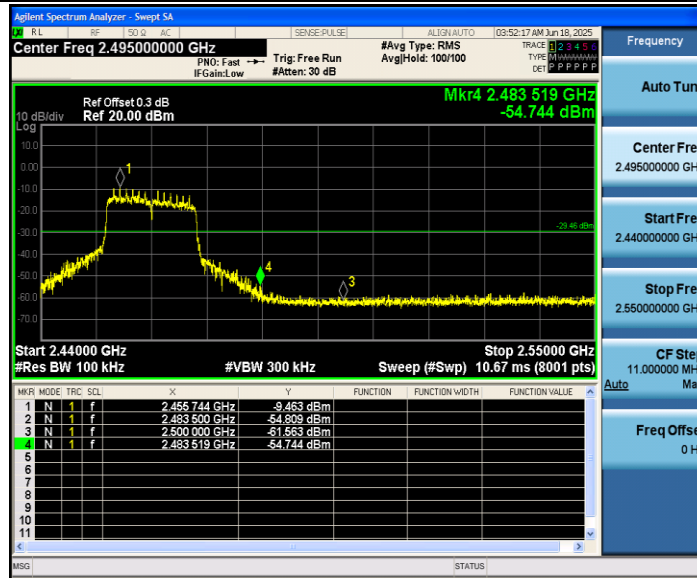
11G_Ant1_High_2462



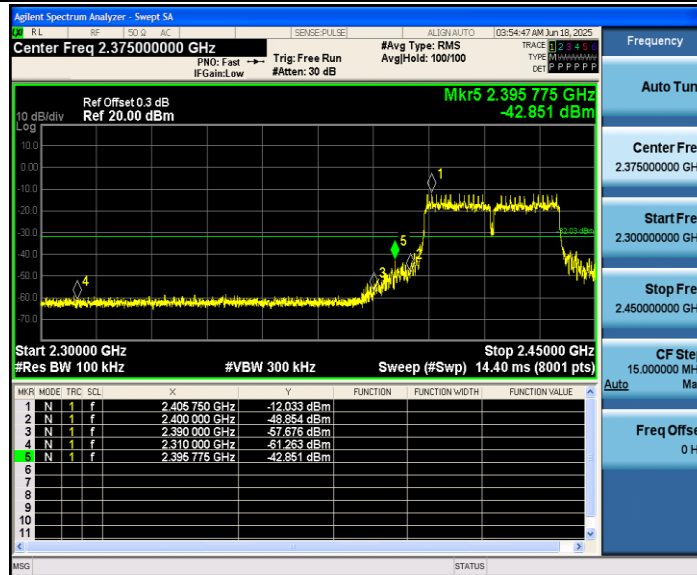
11N20SISO_Ant1_Low_2412



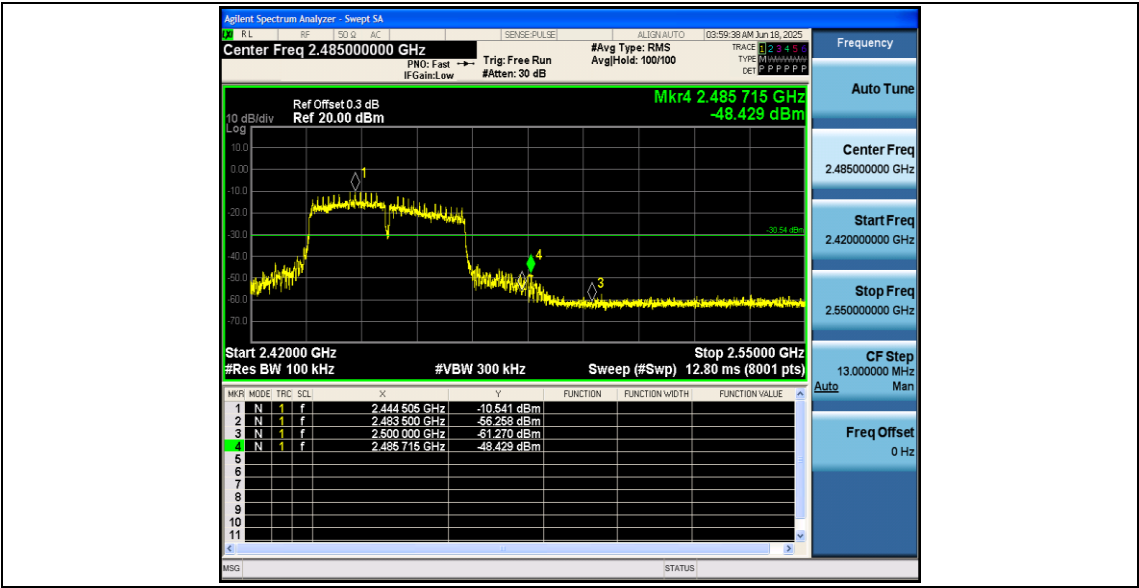
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

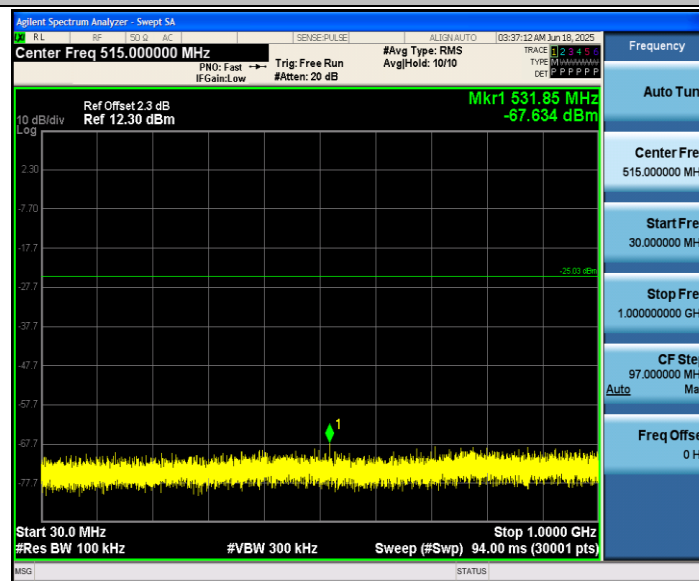
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.03	-5.03	---	PASS
			30~1000	-5.03	-67.63	≤-25.03	PASS
			1000~26500	-5.03	-48.85	≤-25.03	PASS
		2437	Reference	-5.07	-5.07	---	PASS
			30~1000	-5.07	-68.09	≤-25.07	PASS
			1000~26500	-5.07	-47.16	≤-25.07	PASS
		2462	Reference	-7.18	-7.18	---	PASS
			30~1000	-7.18	-68.33	≤-27.18	PASS
			1000~26500	-7.18	-42.2	≤-27.18	PASS
11G	Ant1	2412	Reference	-9.75	-9.75	---	PASS
			30~1000	-9.75	-68.63	≤-29.75	PASS
			1000~26500	-9.75	-54.81	≤-29.75	PASS
		2437	Reference	-10.60	-10.60	---	PASS
			30~1000	-10.60	-67.64	≤-30.6	PASS
			1000~26500	-10.60	-49.07	≤-30.6	PASS
		2462	Reference	-10.62	-10.62	---	PASS
			30~1000	-10.62	-66.1	≤-30.62	PASS
			1000~26500	-10.62	-52.84	≤-30.62	PASS
11N20SISO	Ant1	2412	Reference	-9.01	-9.01	---	PASS
			30~1000	-9.01	-67.47	≤-29.01	PASS
			1000~26500	-9.01	-52.02	≤-29.01	PASS
		2437	Reference	-9.25	-9.25	---	PASS
			30~1000	-9.25	-68.1	≤-29.25	PASS
			1000~26500	-9.25	-55.22	≤-29.25	PASS
		2462	Reference	-10.25	-10.25	---	PASS
			30~1000	-10.25	-67.71	≤-30.25	PASS
			1000~26500	-10.25	-52.91	≤-30.25	PASS
11N40SISO	Ant1	2422	Reference	-12.03	-12.03	---	PASS
			30~1000	-12.03	-68.21	≤-32.03	PASS
			1000~26500	-12.03	-55.06	≤-32.03	PASS
		2437	Reference	-11.50	-11.50	---	PASS
			30~1000	-11.50	-67.86	≤-31.5	PASS
			1000~26500	-11.50	-55.25	≤-31.5	PASS
		2452	Reference	-10.50	-10.50	---	PASS
			30~1000	-10.50	-67.48	≤-30.5	PASS
			1000~26500	-10.50	-52.53	≤-30.5	PASS

Test Graphs

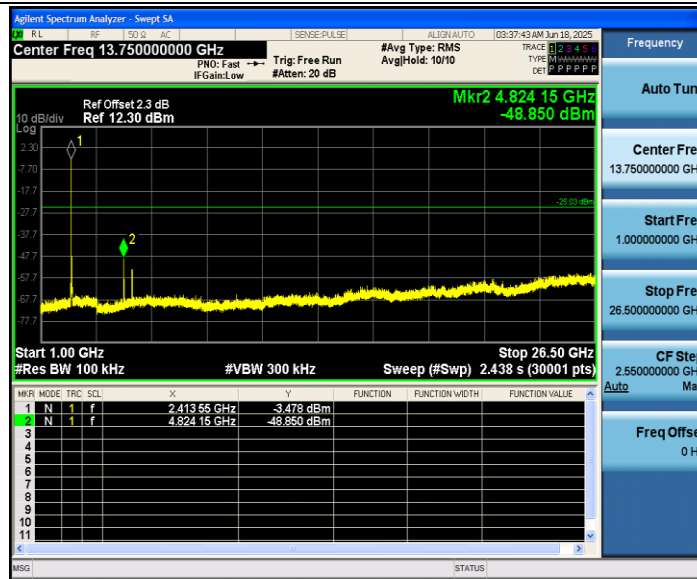
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



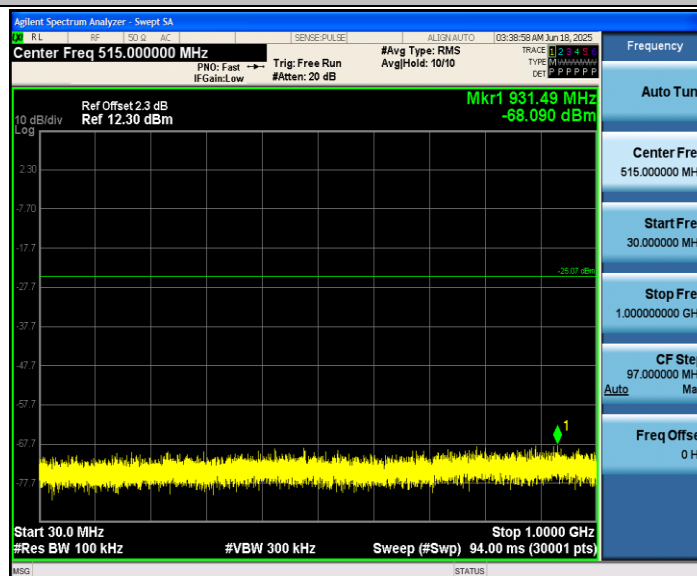
11B_Ant1_2412_1000~26500



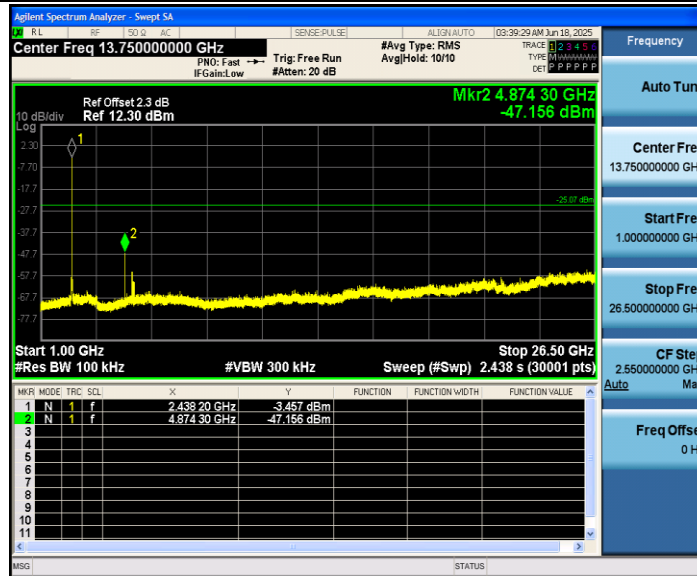
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



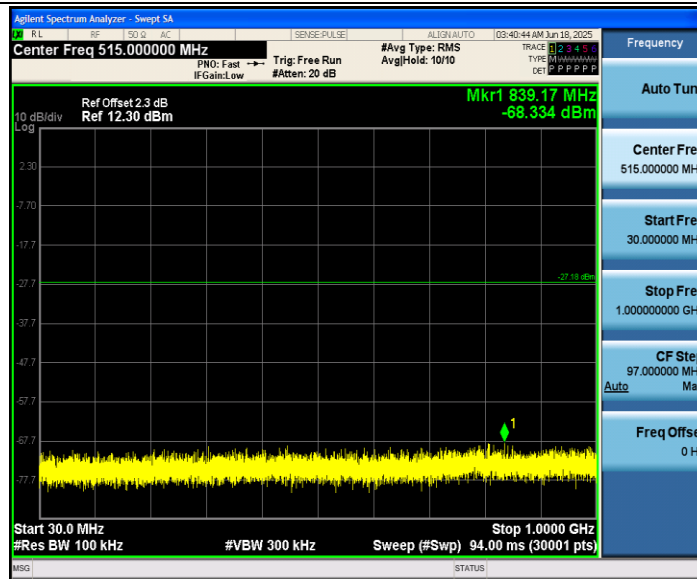
11B_Ant1_2437_1000~26500



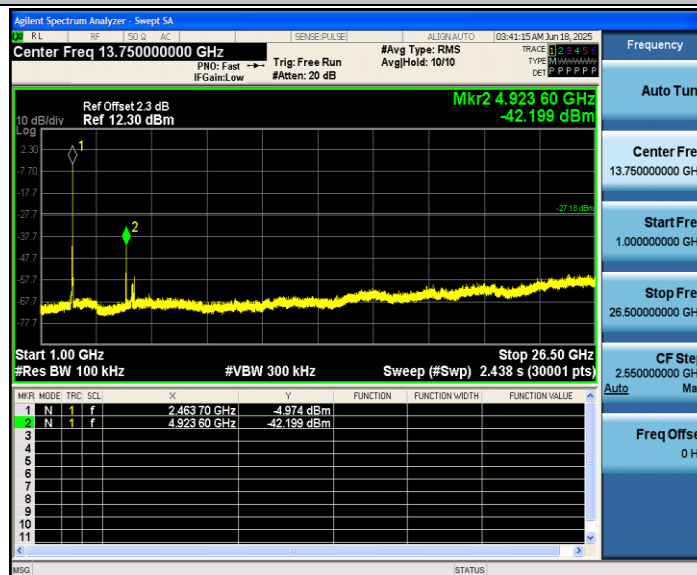
11B_Ant1_2462_0~Reference



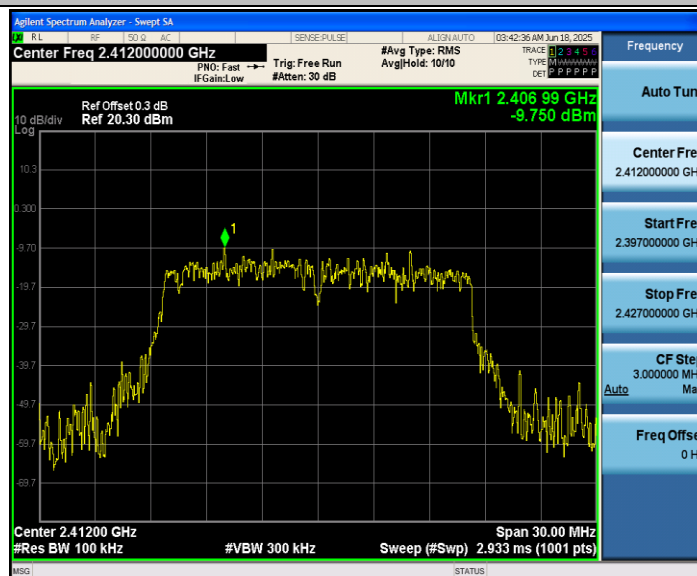
11B_Ant1_2462_30~1000



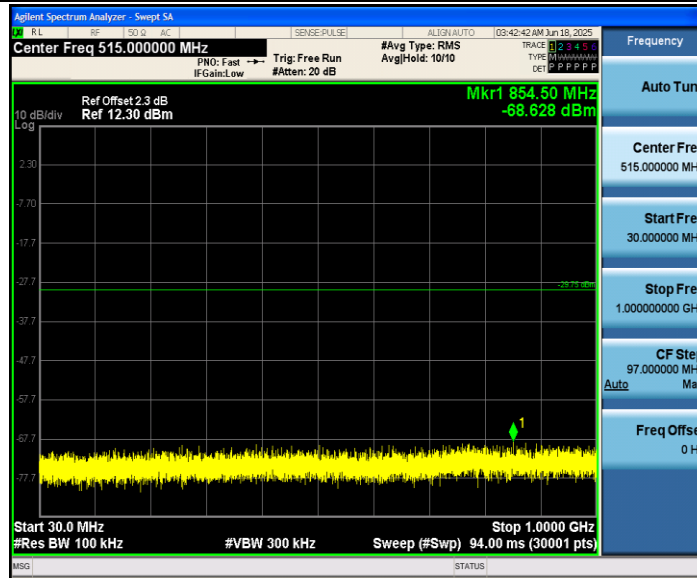
11B_Ant1_2462_1000~26500



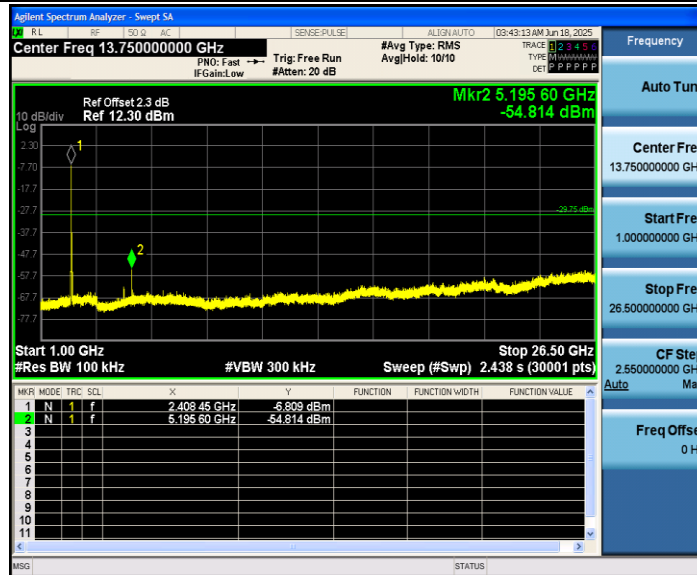
11G_Ant1_2412_0~Reference



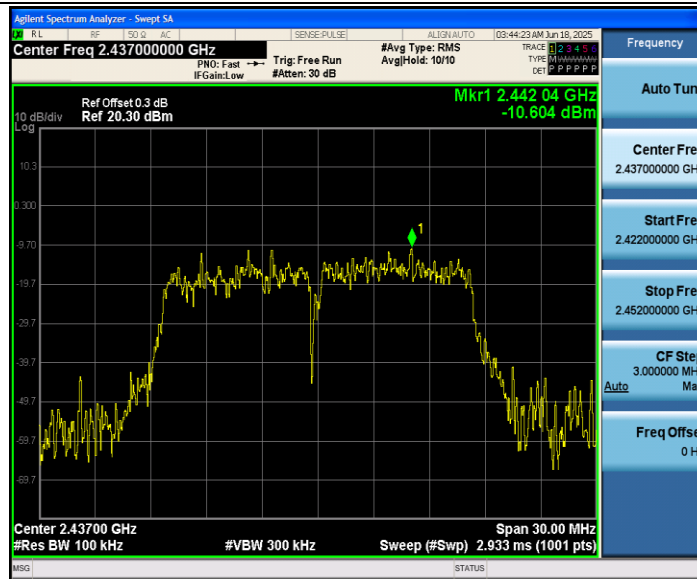
11G_Ant1_2412_30~1000



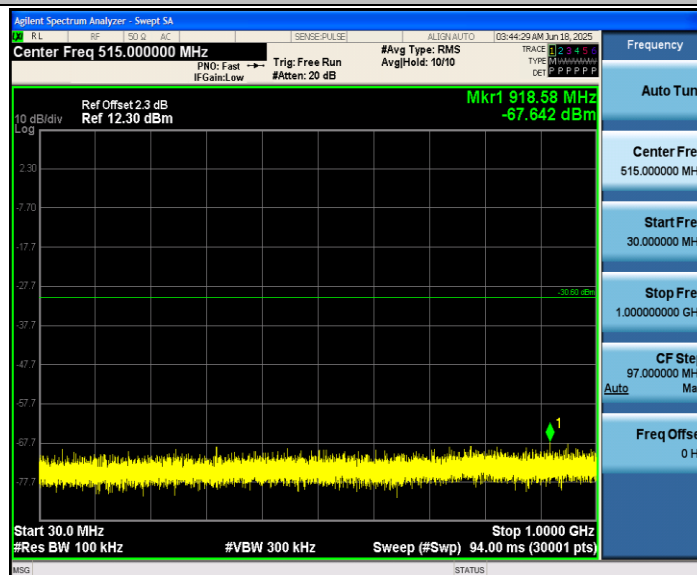
11G_Ant1_2412_1000~26500



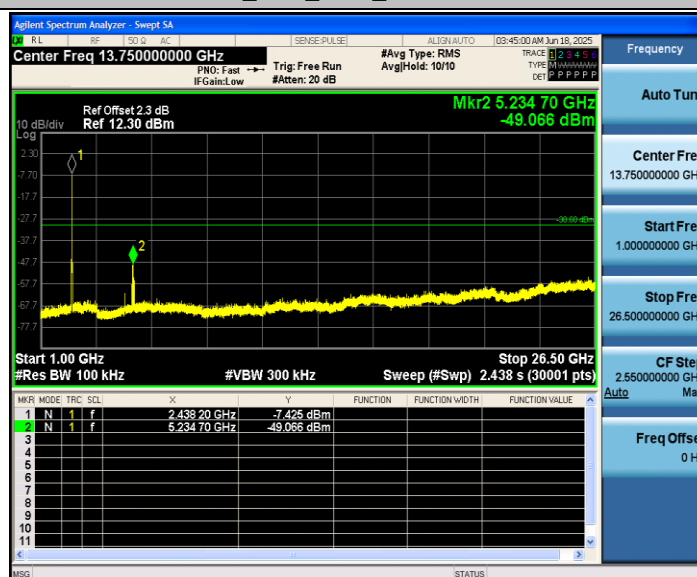
11G_Ant1_2437_0~Reference



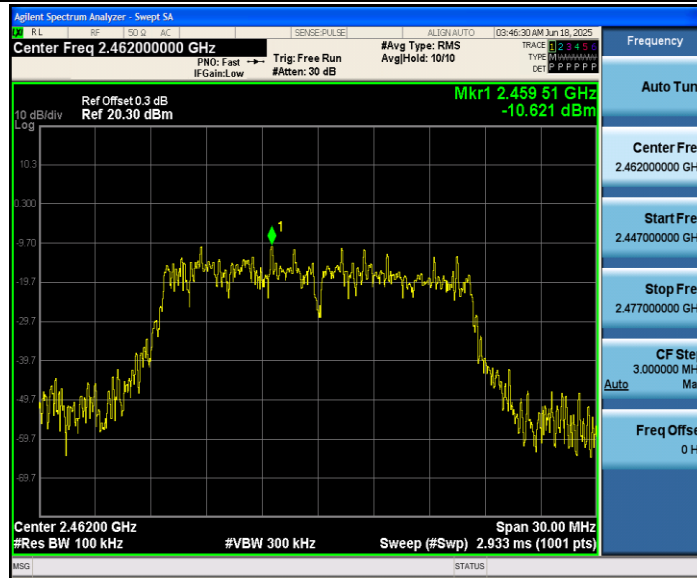
11G_Ant1_2437_30~1000



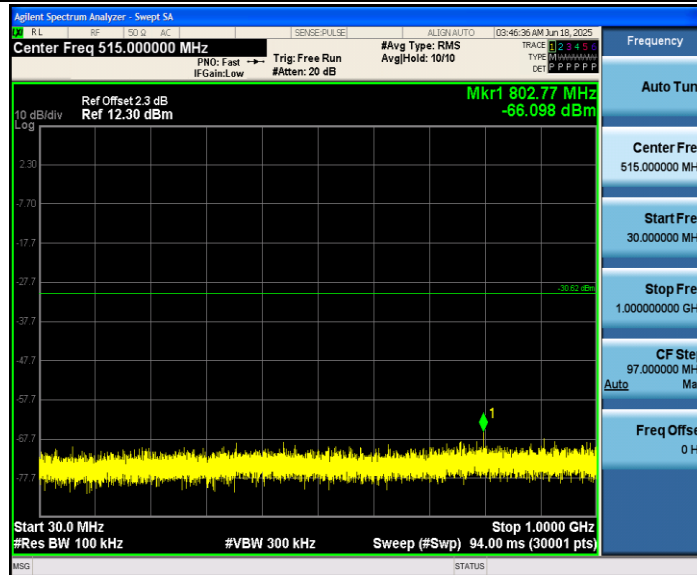
11G_Ant1_2437_1000~26500



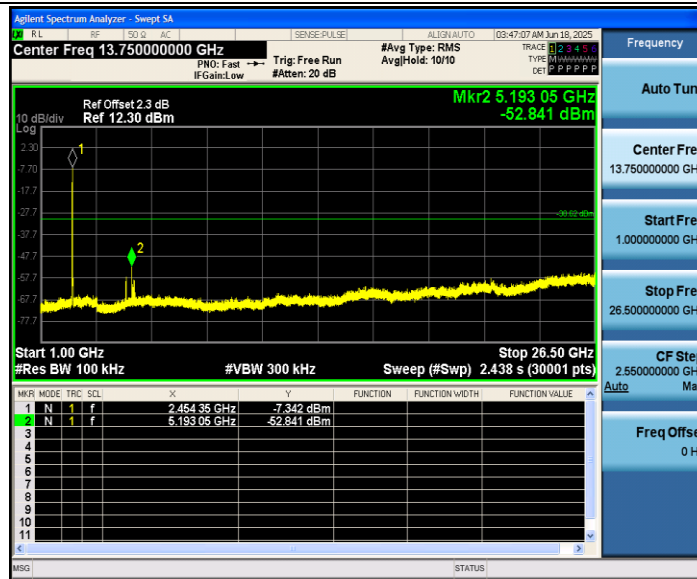
11G_Ant1_2462_0~Reference



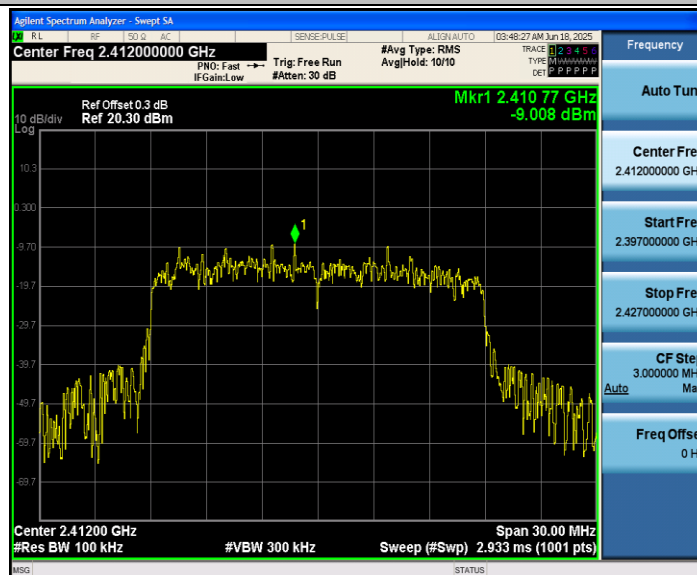
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

