

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A9JD-Q3S

Company : Shenzhen Jingyun Wulian Technology CO.,Ltd

EUT : smart glasses

Model Number : Q3S

Report No. : CTA26071700202

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

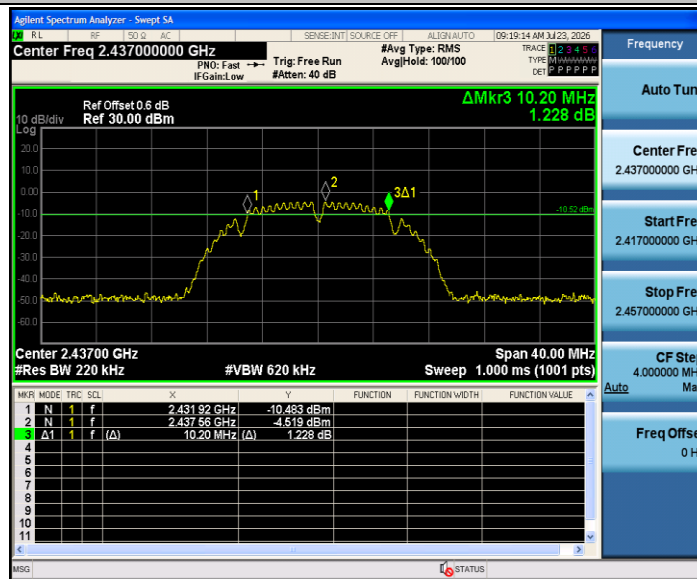
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.920	2404.080	2420.000	0.5	PASS
		2437	16.000	2429.080	2445.080	0.5	PASS
		2462	15.560	2454.440	2470.000	0.5	PASS
11N20SISO	Ant1	2412	16.800	2403.440	2420.240	0.5	PASS
		2437	16.840	2428.600	2445.440	0.5	PASS
		2462	16.160	2454.200	2470.360	0.5	PASS
11N40SISO	Ant1	2422	34.640	2405.200	2439.840	0.5	PASS
		2437	35.600	2419.560	2455.160	0.5	PASS
		2452	35.760	2434.320	2470.080	0.5	PASS

Test Graphs

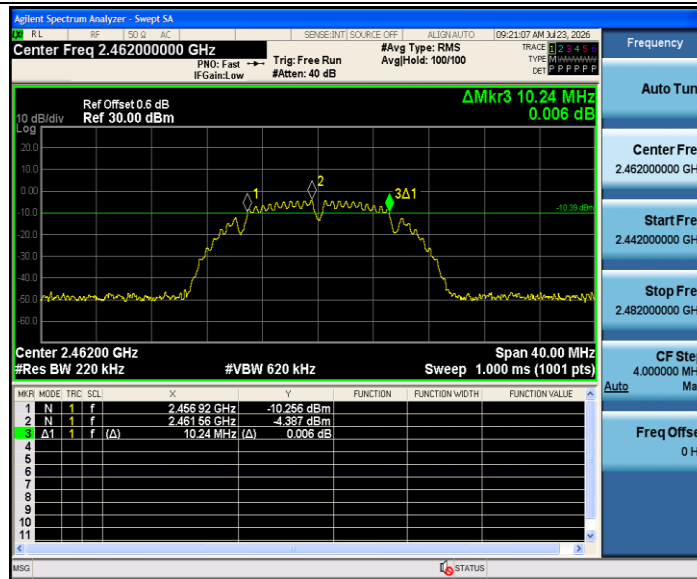
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437

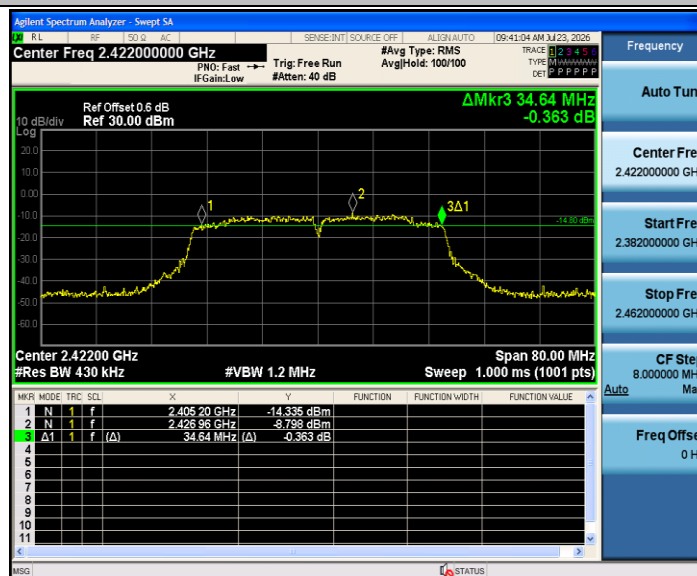




11N20SISO_Ant1_2462



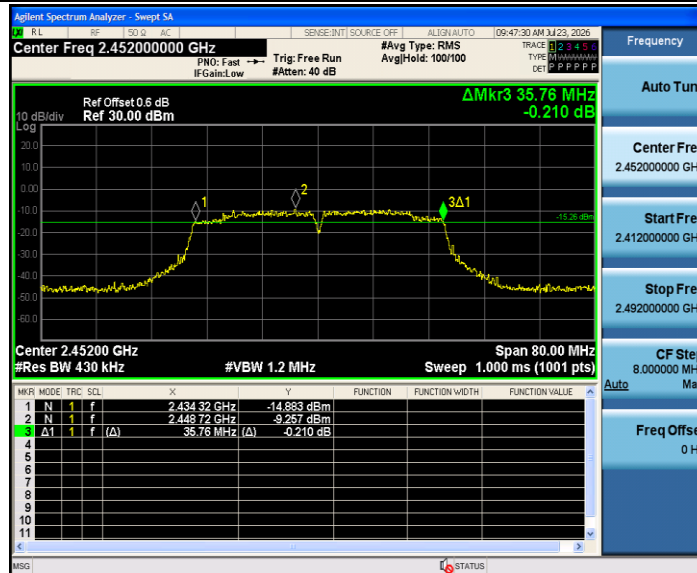
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



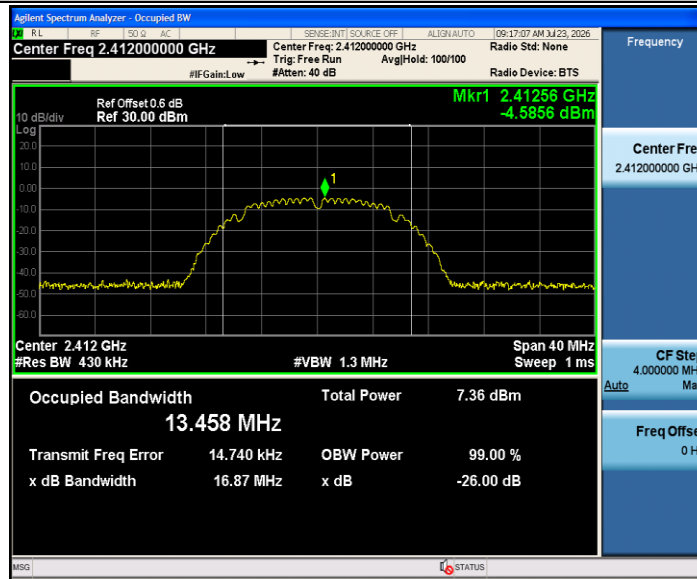
Appendix B: Occupied Channel Bandwidth

Test Result

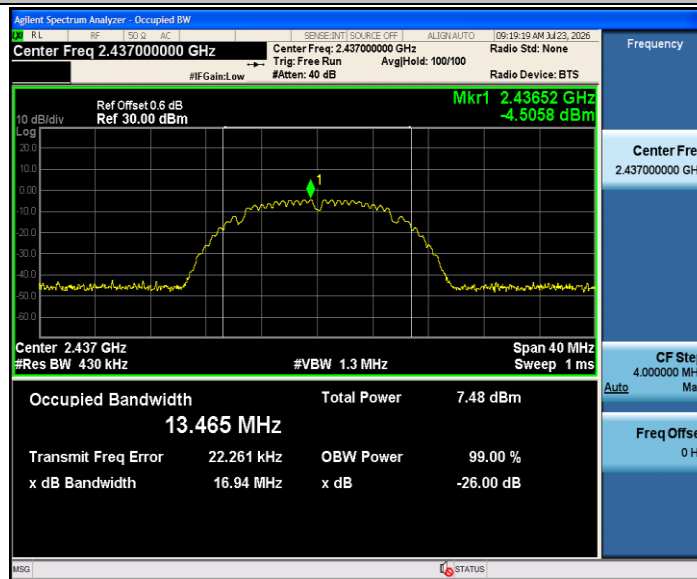
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.458	2405.2857	2418.7437	---	---
		2437	13.465	2430.2898	2443.7548	---	---
		2462	13.462	2455.3007	2468.7627	---	---
11G	Ant1	2412	16.928	2403.5825	2420.5105	---	---
		2437	16.810	2428.6405	2445.4505	---	---
		2462	16.825	2453.6150	2470.4400	---	---
11N20SISO	Ant1	2412	17.932	2403.0673	2420.9993	---	---
		2437	17.979	2428.0187	2445.9977	---	---
		2462	17.946	2453.0630	2471.0090	---	---
11N40SISO	Ant1	2422	36.082	2404.0932	2440.1752	---	---
		2437	36.121	2419.1252	2455.2462	---	---
		2452	36.128	2434.1116	2470.2396	---	---

Test Graphs

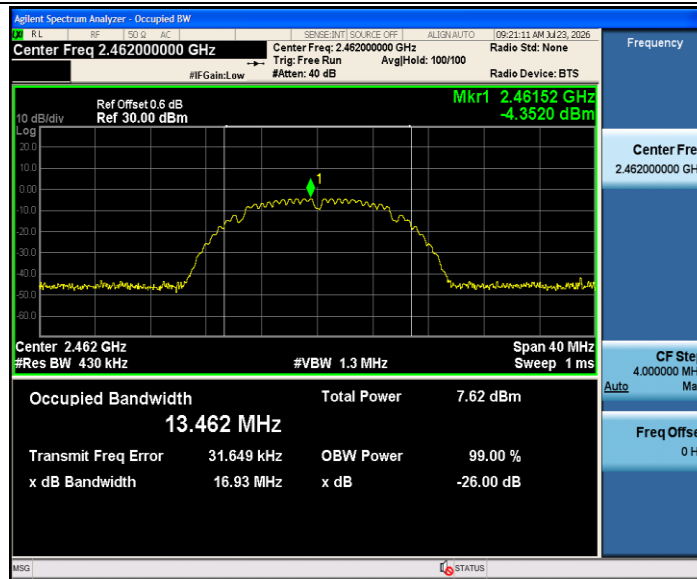
11B_Ant1_2412



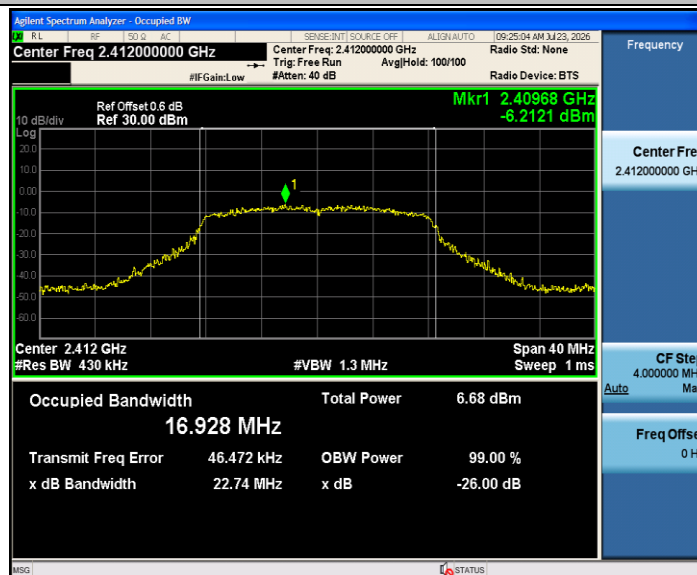
11B_Ant1_2437



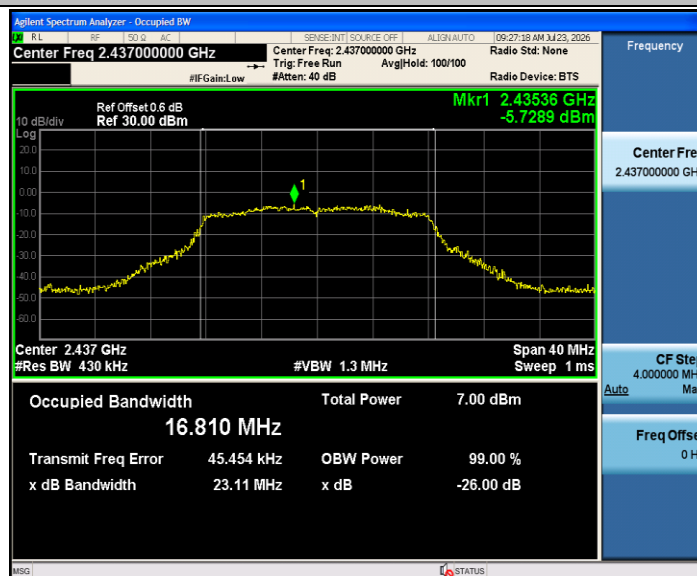
11B_Ant1_2462



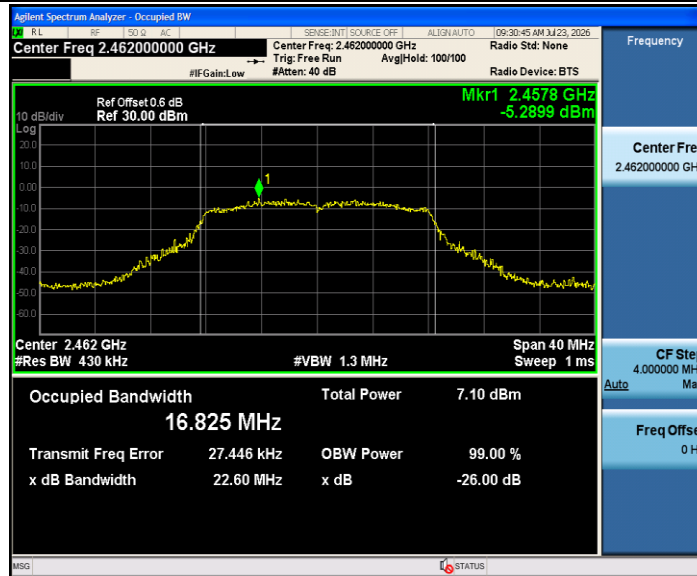
11G_Ant1_2412



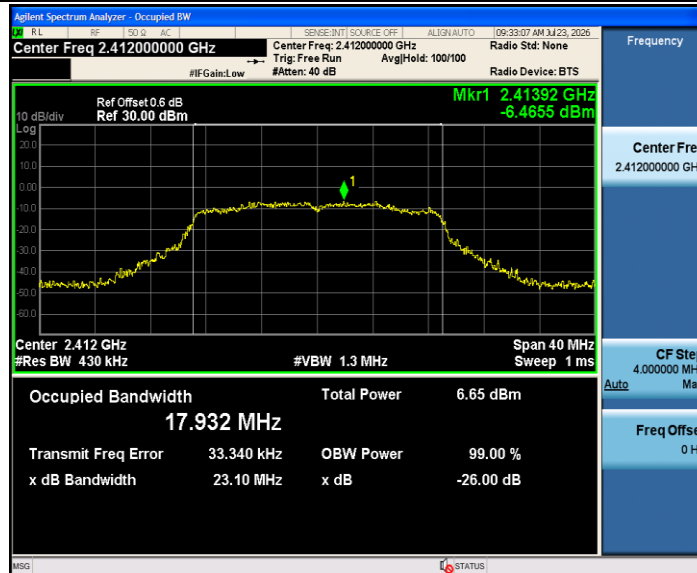
11G_Ant1_2437



11G_Ant1_2462



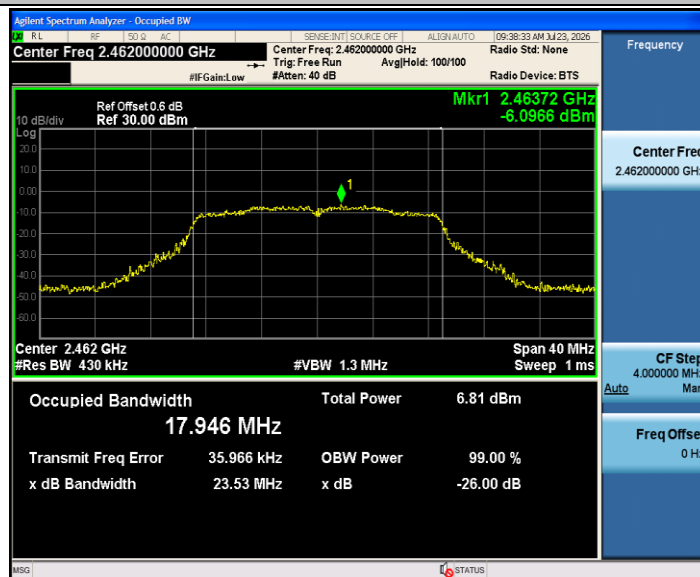
11N20SISO_Ant1_2412



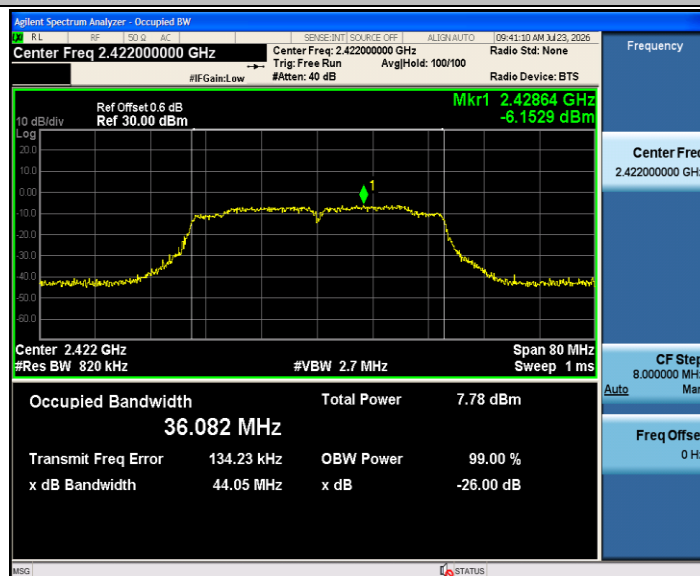
11N20SISO_Ant1_2437



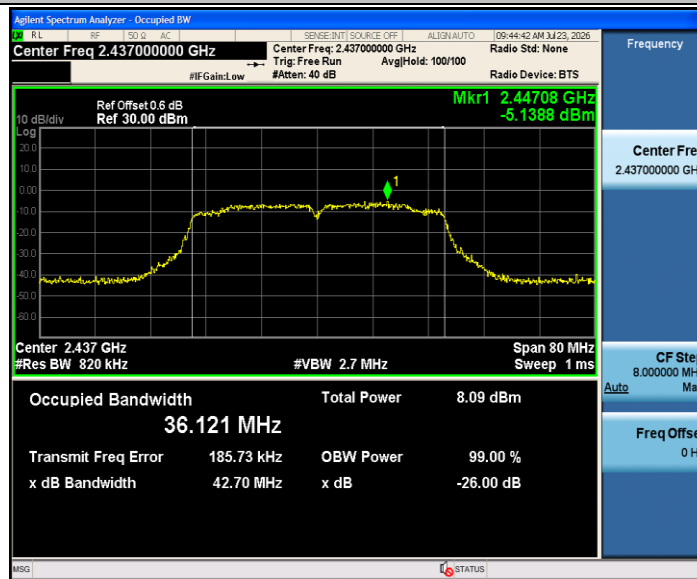
11N20SISO_Ant1_2462



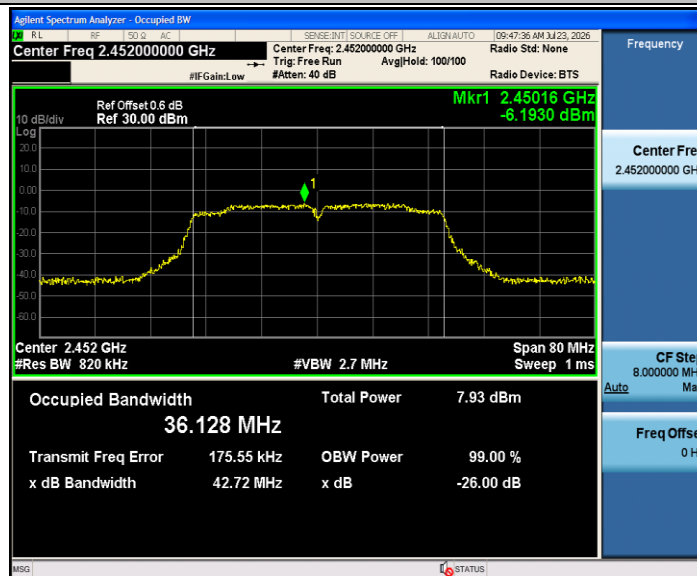
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[M Hz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	8.14	≤30.00	PASS
		2437	8.27	≤30.00	PASS
		2462	8.39	≤30.00	PASS
11G	Ant1	2412	7.72	≤30.00	PASS
		2437	7.91	≤30.00	PASS
		2462	7.84	≤30.00	PASS
11N20SISO	Ant1	2412	7.58	≤30.00	PASS
		2437	7.79	≤30.00	PASS
		2462	7.61	≤30.00	PASS
11N40SISO	Ant1	2422	7.82	≤30.00	PASS
		2437	7.98	≤30.00	PASS
		2452	7.94	≤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	-19.14	≤8.00	PASS
		2437	-18.01	≤8.00	PASS
		2462	-18.95	≤8.00	PASS
11G	Ant1	2412	-24.52	≤8.00	PASS
		2437	-23.61	≤8.00	PASS
		2462	-23.31	≤8.00	PASS
11N20SISO	Ant1	2412	-24.14	≤8.00	PASS
		2437	-24.04	≤8.00	PASS
		2462	-23.09	≤8.00	PASS
11N40SISO	Ant1	2422	-26.46	≤8.00	PASS
		2437	-25.50	≤8.00	PASS
		2452	-25.20	≤8.00	PASS

Test Graphs

11B_Ant1_2412



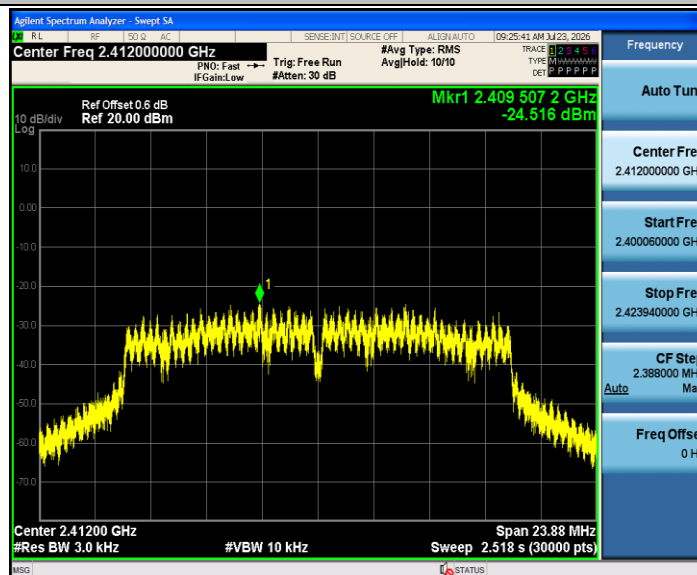
11B_Ant1_2437



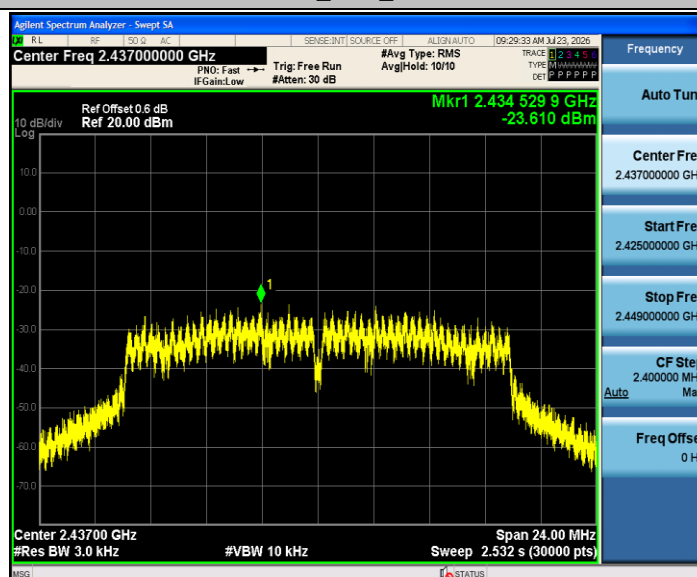
11B_Ant1_2462



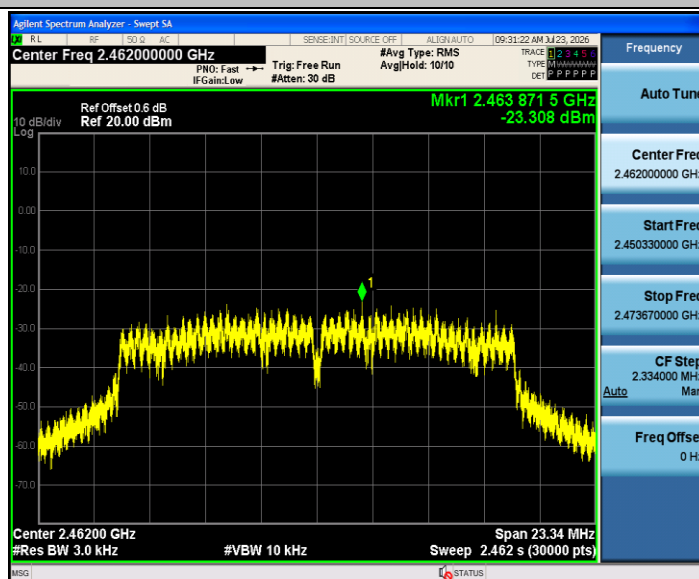
11G_Ant1_2412



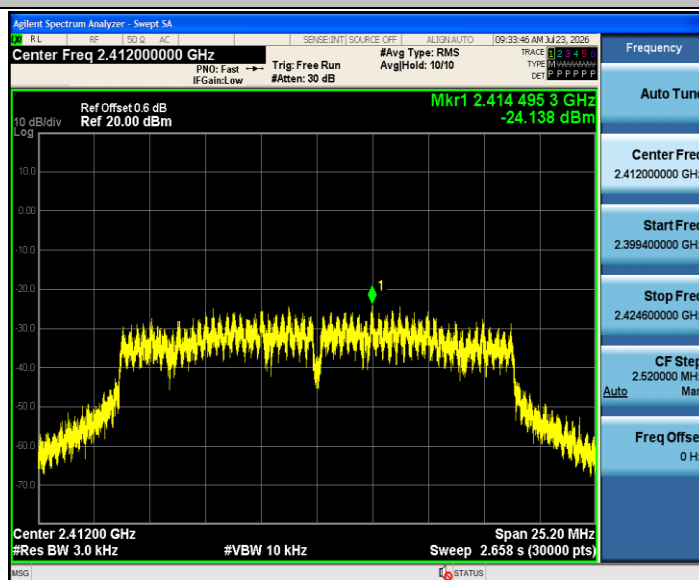
11G_Ant1_2437



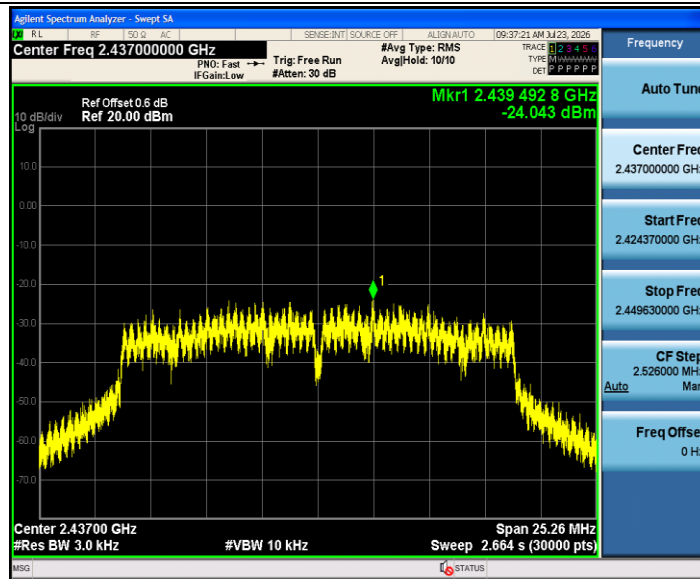
11G_Ant1_2462



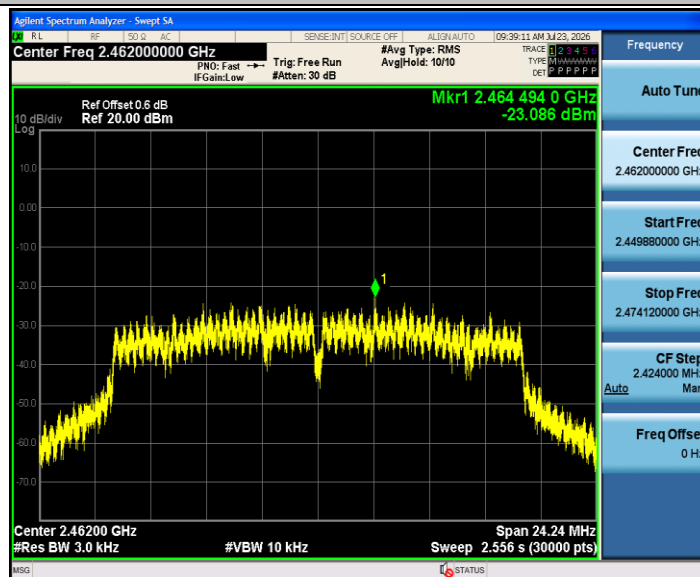
11N20SISO_Ant1_2412



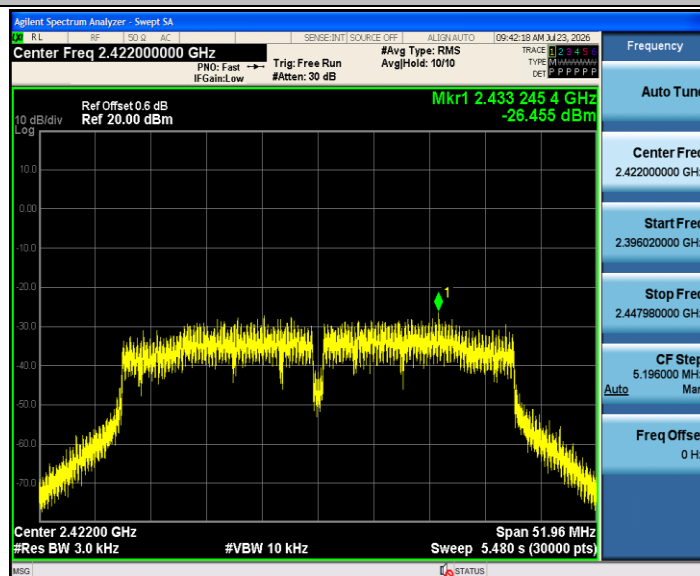
11N20SISO_Ant1_2437



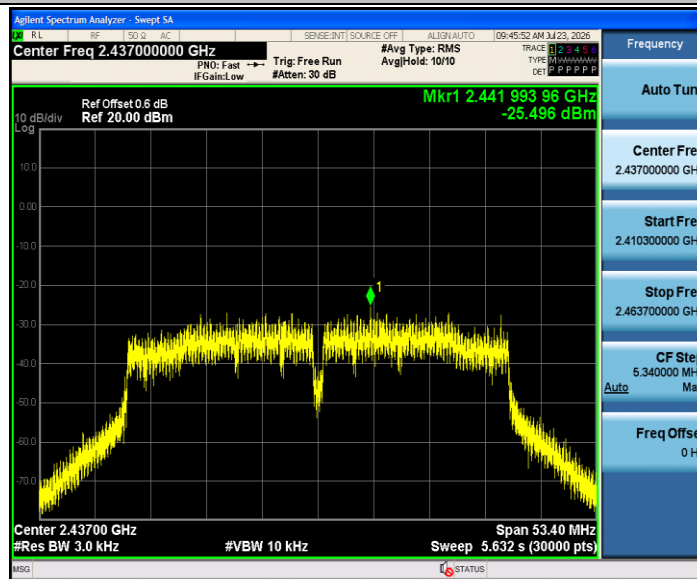
11N20SISO_Ant1_2462



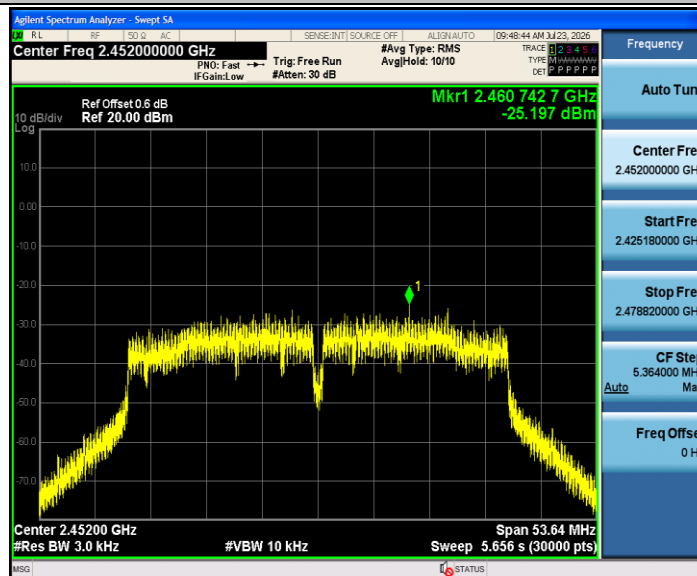
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



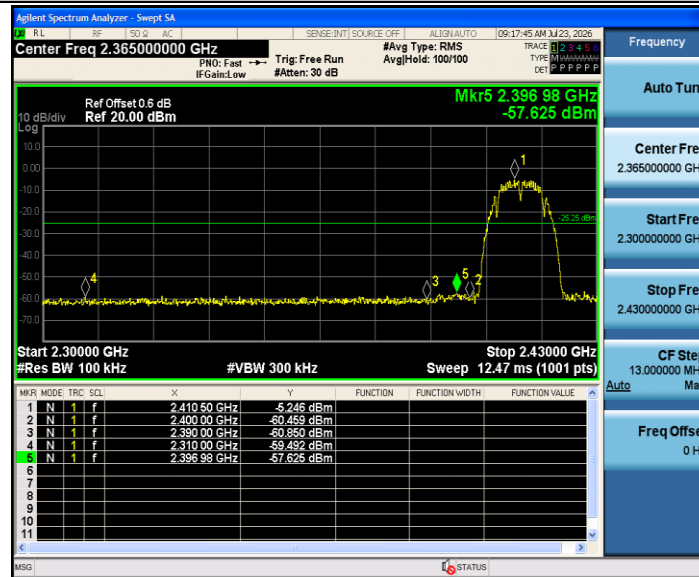
Appendix E: Band edge measurements

Test Result

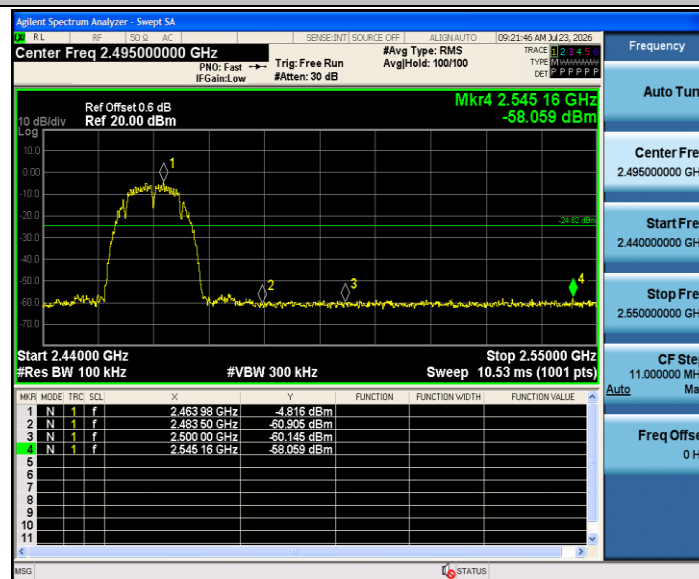
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-5.25	-57.63	≤-25.25	PASS
		High	2462	-4.82	-58.06	≤-24.82	PASS
11G	Ant1	Low	2412	-8.66	-41.19	≤-28.66	PASS
		High	2462	-8.50	-57.5	≤-28.5	PASS
11N20SISO	Ant1	Low	2412	-8.88	-40.67	≤-28.88	PASS
		High	2462	-8.52	-57.66	≤-28.52	PASS
11N40SISO	Ant1	Low	2422	-11.72	-40.03	≤-31.72	PASS
		High	2452	-11.63	-57.5	≤-31.63	PASS

Test Graphs

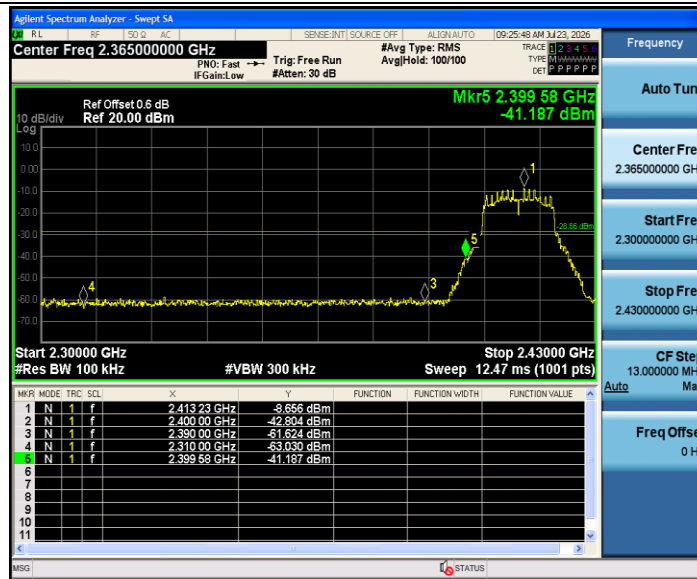
11B_Ant1_Low_2412



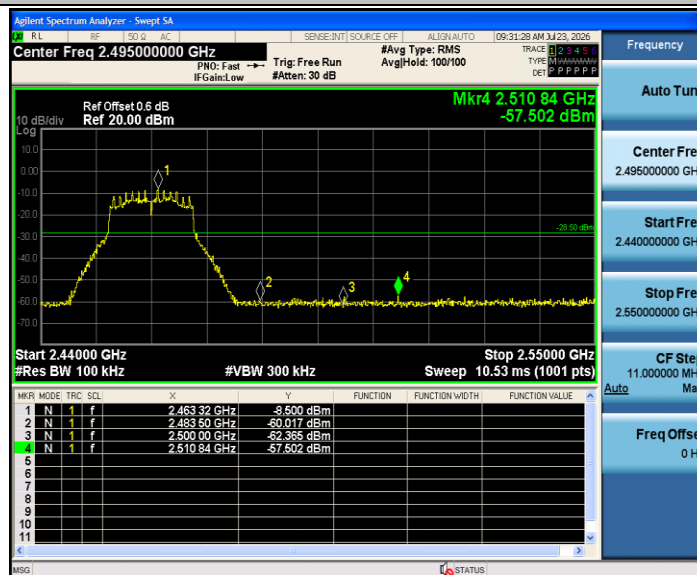
11B_Ant1_High_2462



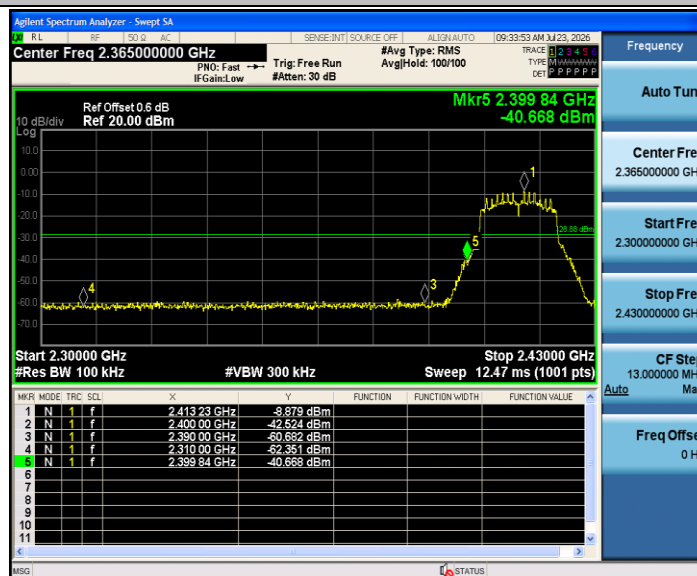
11G_Ant1_Low_2412



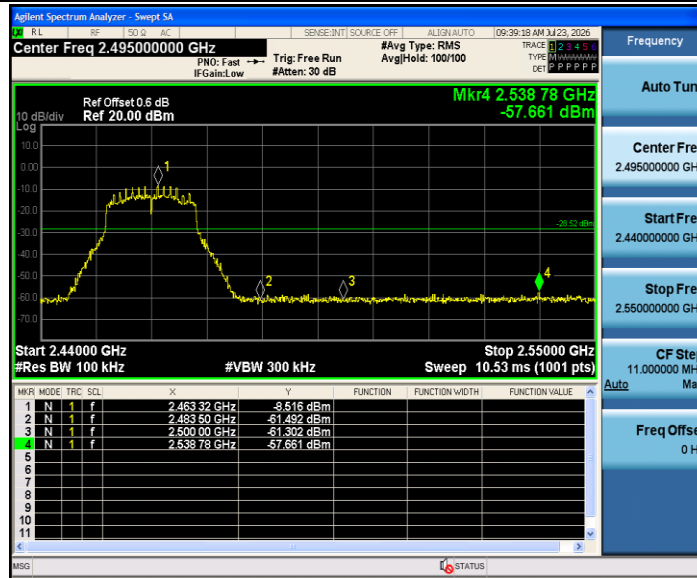
11G_Ant1_High_2462



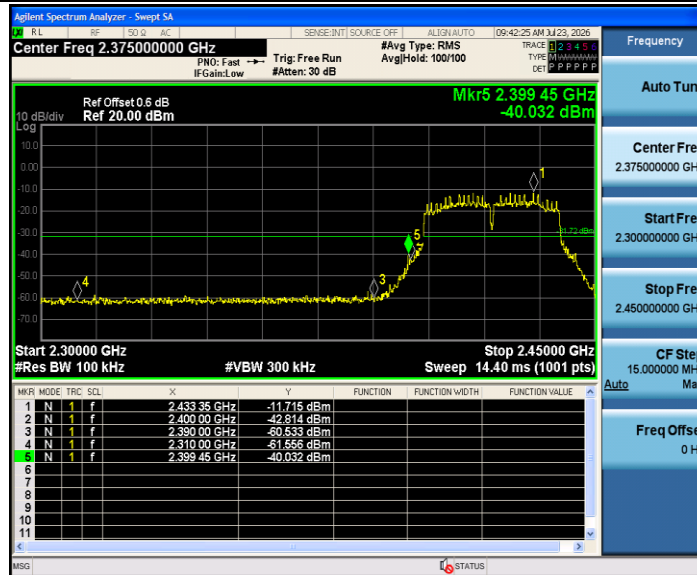
11N20SISO_Ant1_Low_2412



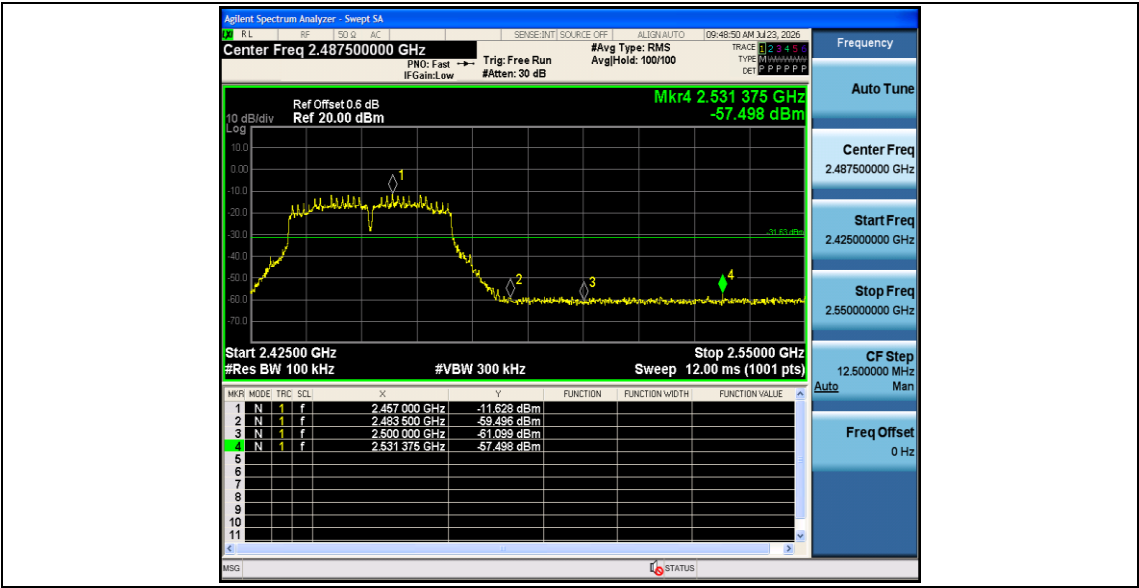
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

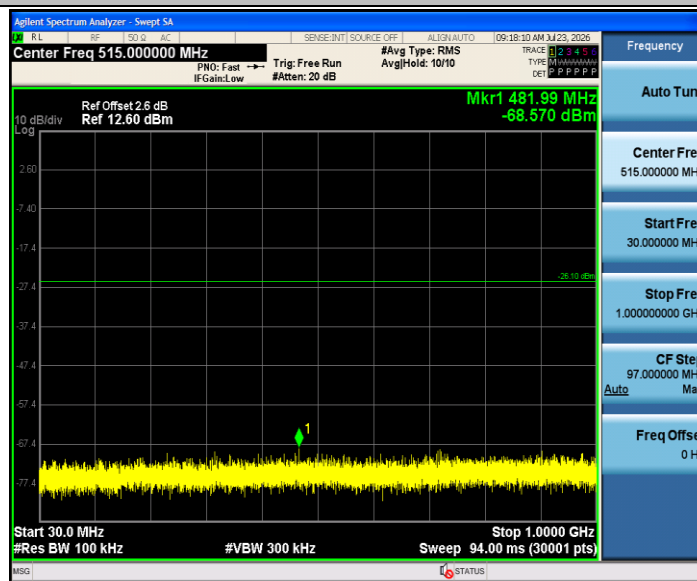
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-6.10	-6.10	---	PASS
			30~1000	-6.10	-68.57	≤-26.1	PASS
			1000~26500	-6.10	-47	≤-26.1	PASS
		2437	Reference	-5.01	-5.01	---	PASS
			30~1000	-5.01	-69.71	≤-25.01	PASS
			1000~26500	-5.01	-46.5	≤-25.01	PASS
		2462	Reference	-5.73	-5.73	---	PASS
			30~1000	-5.73	-68.93	≤-25.73	PASS
			1000~26500	-5.73	-46.47	≤-25.73	PASS
11G	Ant1	2412	Reference	-9.58	-9.58	---	PASS
			30~1000	-9.58	-68.79	≤-29.58	PASS
			1000~26500	-9.58	-47.11	≤-29.58	PASS
		2437	Reference	-9.02	-9.02	---	PASS
			30~1000	-9.02	-69.33	≤-29.02	PASS
			1000~26500	-9.02	-46.93	≤-29.02	PASS
		2462	Reference	-9.01	-9.01	---	PASS
			30~1000	-9.01	-68.94	≤-29.01	PASS
			1000~26500	-9.01	-47.1	≤-29.01	PASS
11N20SISO	Ant1	2412	Reference	-9.41	-9.41	---	PASS
			30~1000	-9.41	-69.33	≤-29.41	PASS
			1000~26500	-9.41	-45.76	≤-29.41	PASS
		2437	Reference	-8.48	-8.48	---	PASS
			30~1000	-8.48	-68.58	≤-28.48	PASS
			1000~26500	-8.48	-46.14	≤-28.48	PASS
		2462	Reference	-8.26	-8.26	---	PASS
			30~1000	-8.26	-68.82	≤-28.26	PASS
			1000~26500	-8.26	-46.4	≤-28.26	PASS
11N40SISO	Ant1	2422	Reference	-12.37	-12.37	---	PASS
			30~1000	-12.37	-68.49	≤-32.37	PASS
			1000~26500	-12.37	-46.36	≤-32.37	PASS
		2437	Reference	-12.61	-12.61	---	PASS
			30~1000	-12.61	-68.03	≤-32.61	PASS
			1000~26500	-12.61	-46.22	≤-32.61	PASS
		2452	Reference	-11.65	-11.65	---	PASS
			30~1000	-11.65	-69	≤-31.65	PASS
			1000~26500	-11.65	-46.84	≤-31.65	PASS

Test Graphs

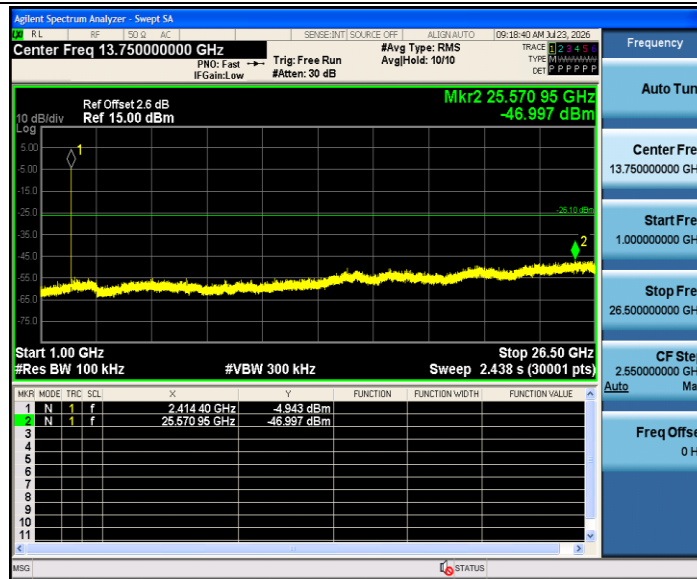
11B_Ant1_2412_0~Reference



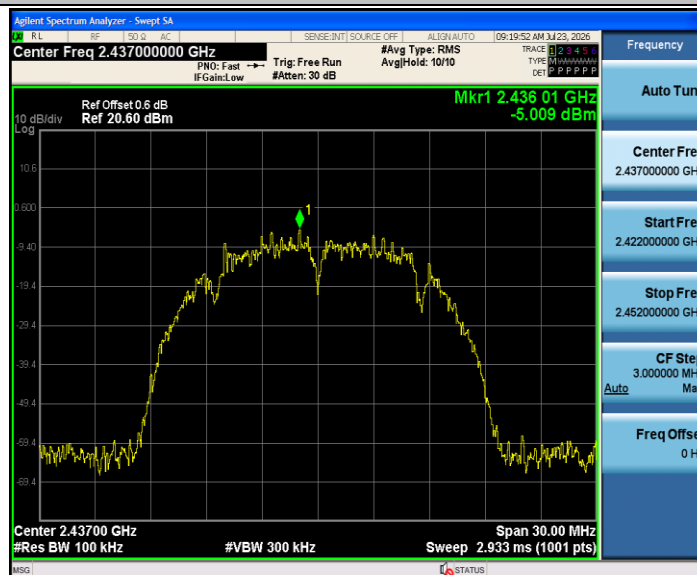
11B_Ant1_2412_30~1000



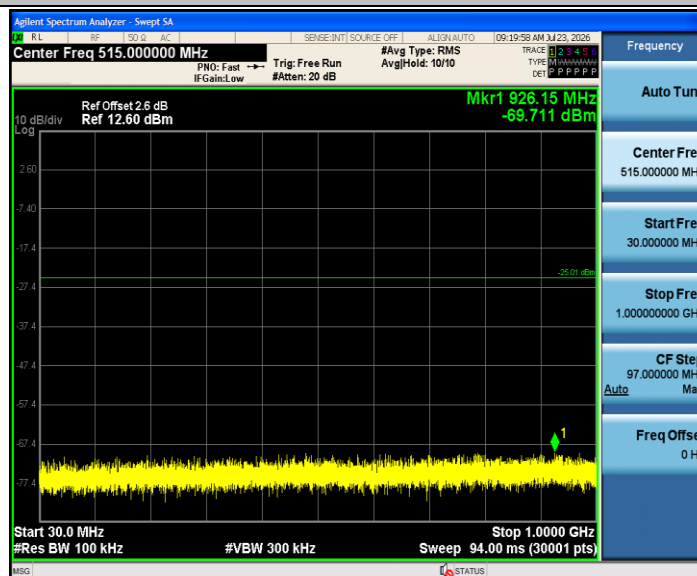
11B_Ant1_2412_1000~26500



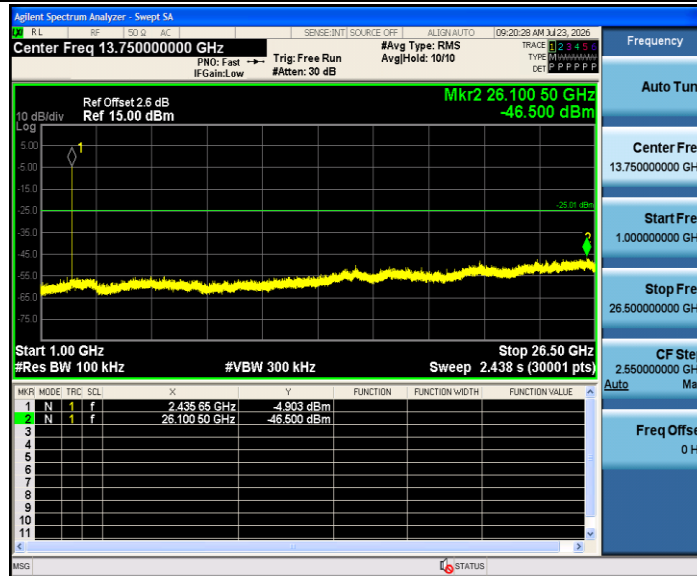
11B_Ant1_2437_0~Reference



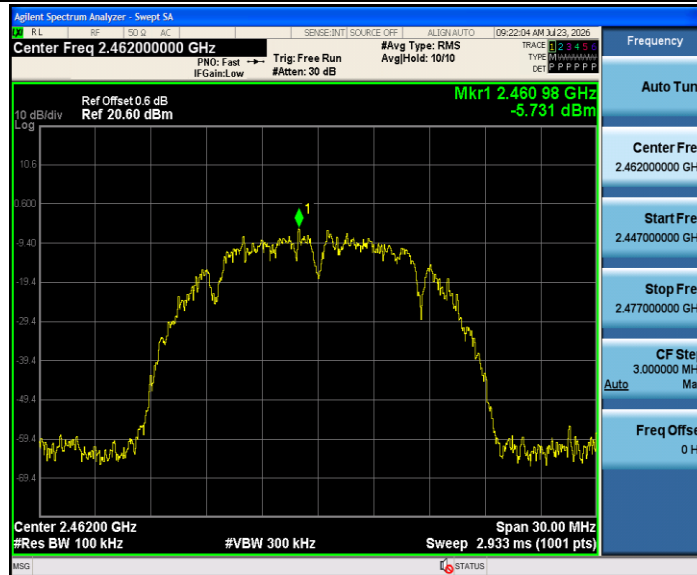
11B_Ant1_2437_30~1000



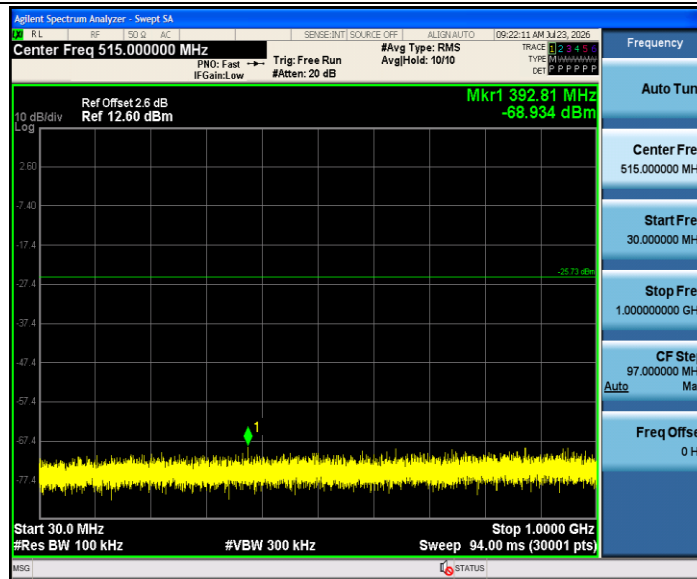
11B_Ant1_2437_1000~26500



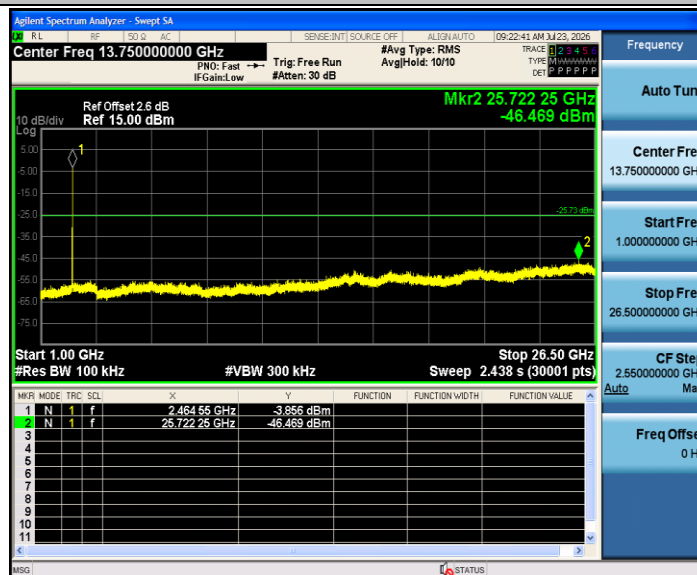
11B_Ant1_2462_0~Reference



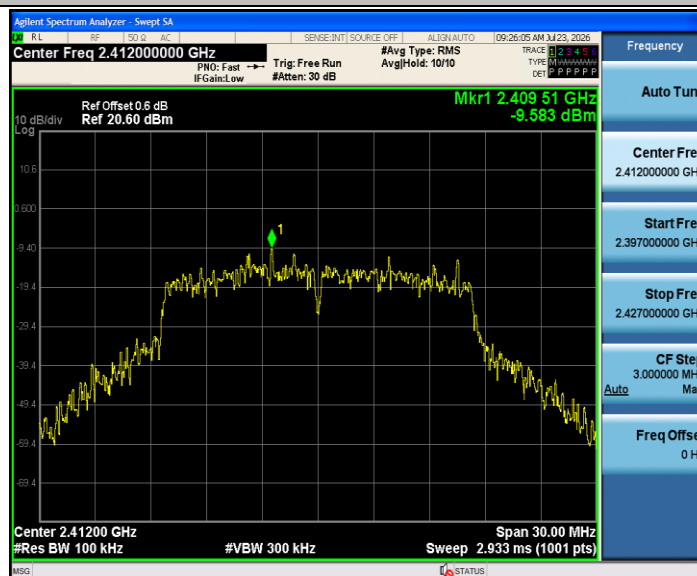
11B_Ant1_2462_30~1000



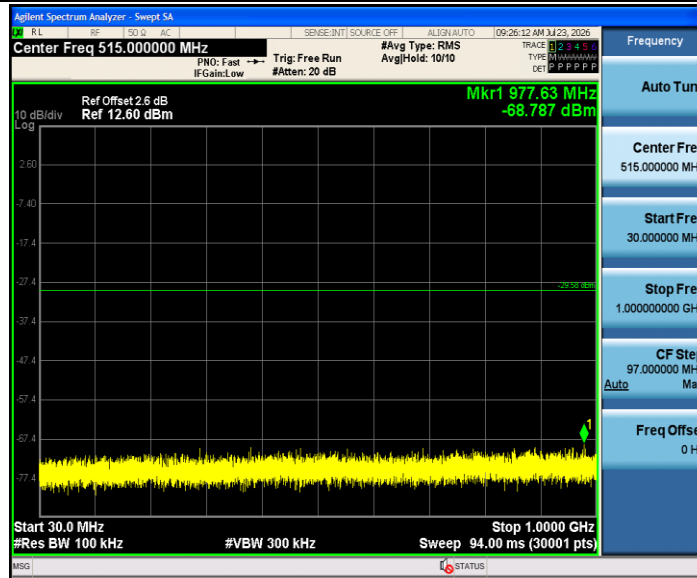
11B_Ant1_2462_1000~26500



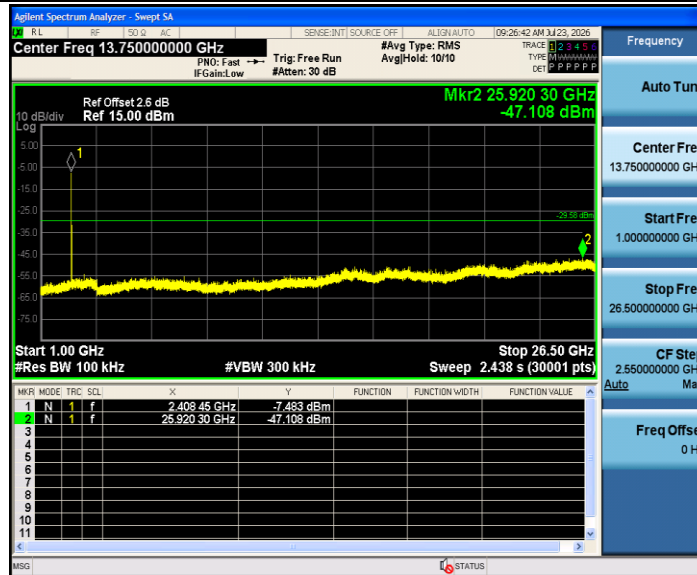
11G_Ant1_2412_0~Reference



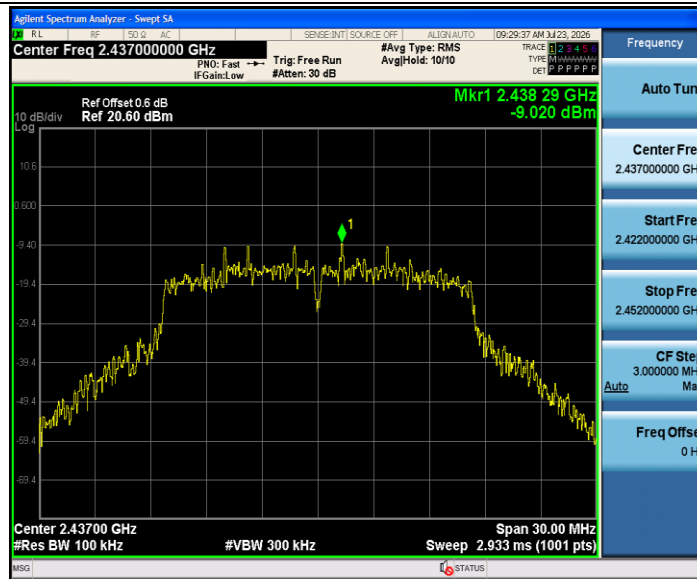
11G_Ant1_2412_30~1000



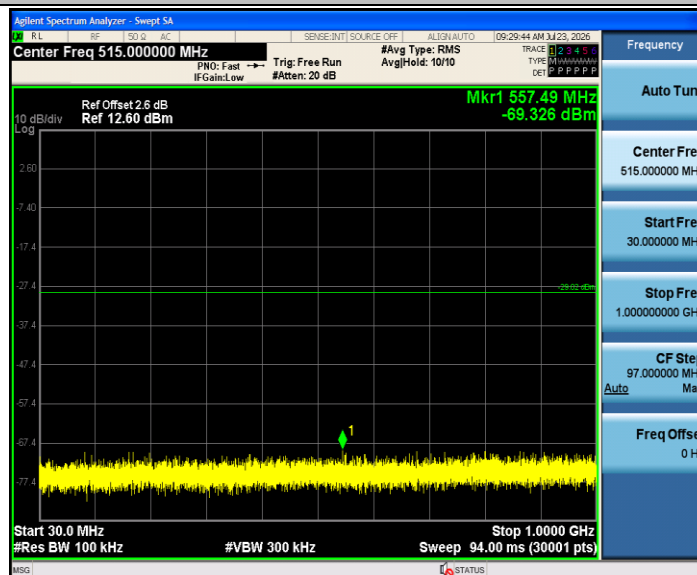
11G_Ant1_2412_1000~26500



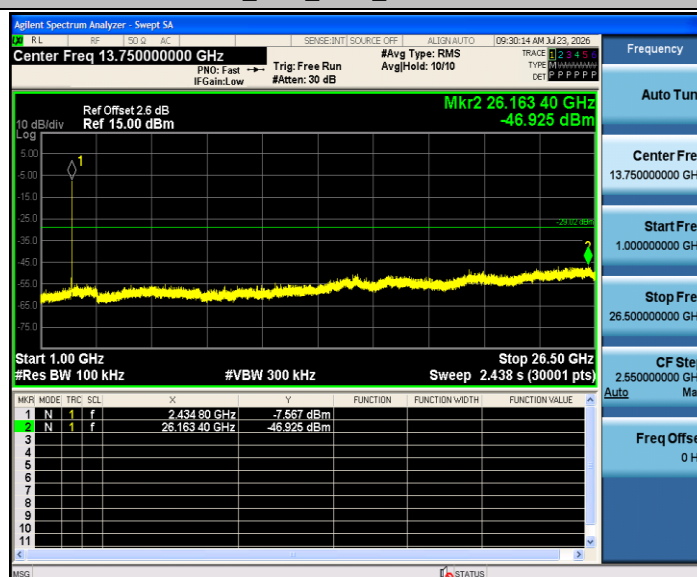
11G_Ant1_2437_0~Reference



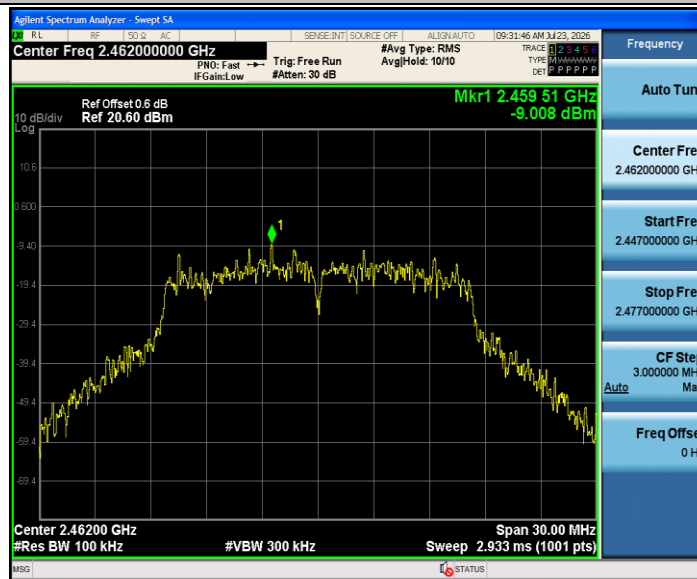
11G_Ant1_2437_30~1000



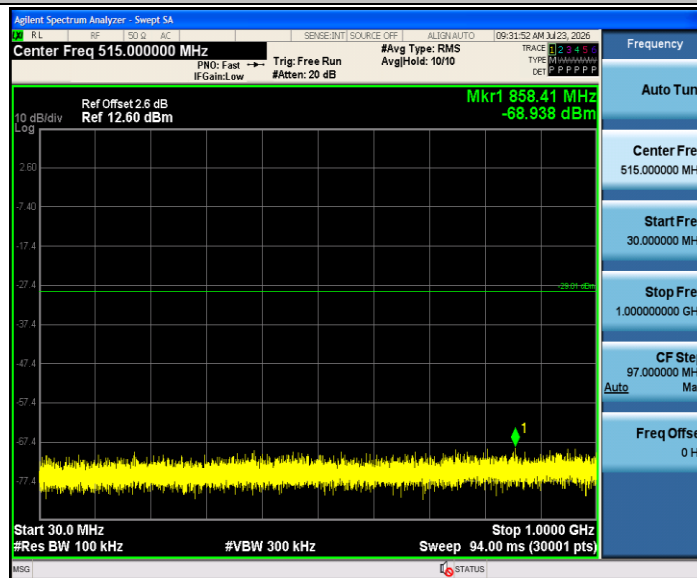
11G_Ant1_2437_1000~26500



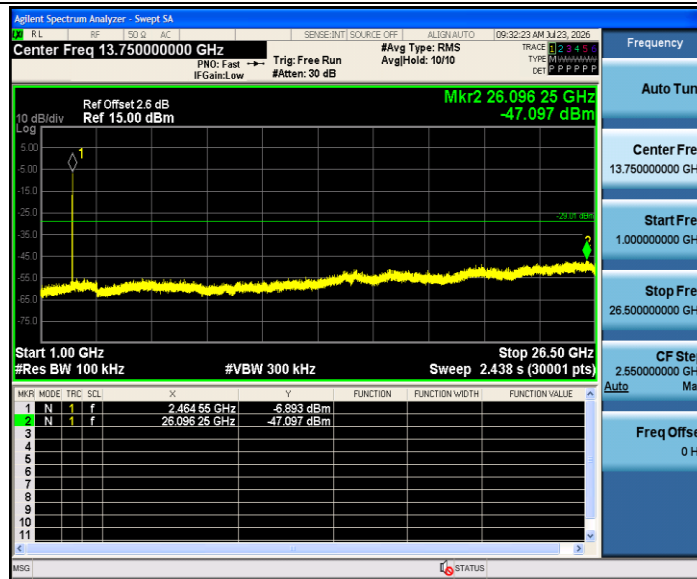
11G_Ant1_2462_0~Reference



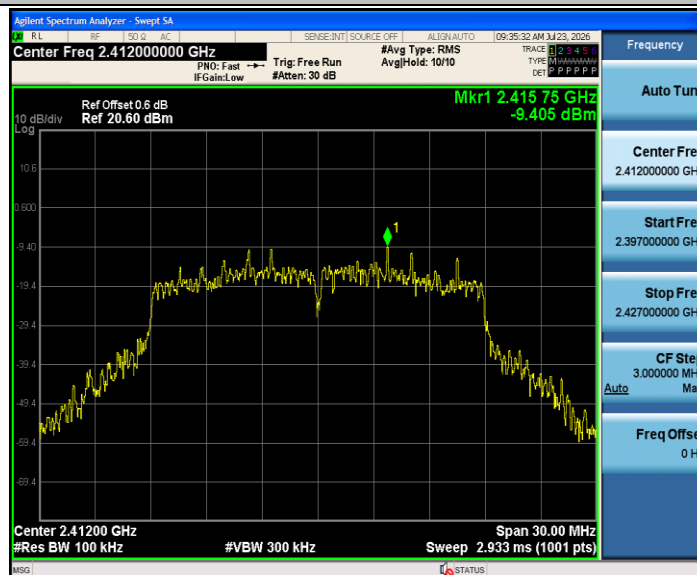
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

