

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BAQY-HE6WIFI

Company : HIFIMAN KUNSHAN TECHNOLOGY GROUP CO., LTD.

EUT : WiFi streaming tablet diaphragm headphones

Model Number : HE6 WiFi

Report No. : CTA26090201803

Reviewed By : Eric Wang

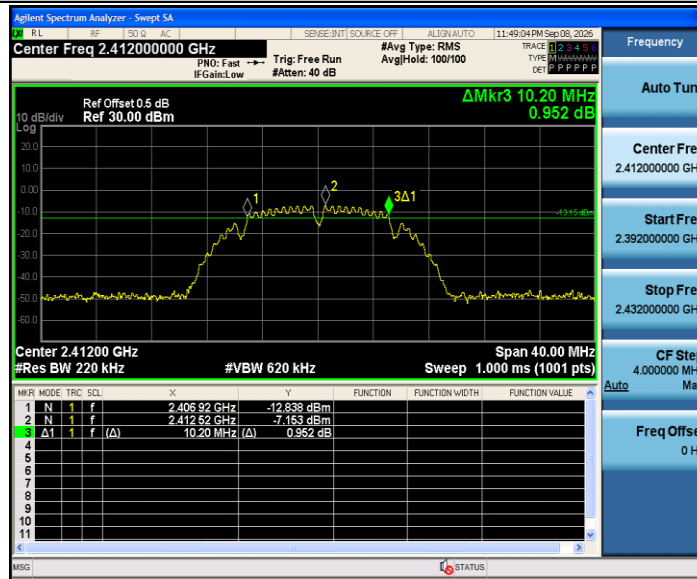
Appendix A: DTS Bandwidth

Test Result

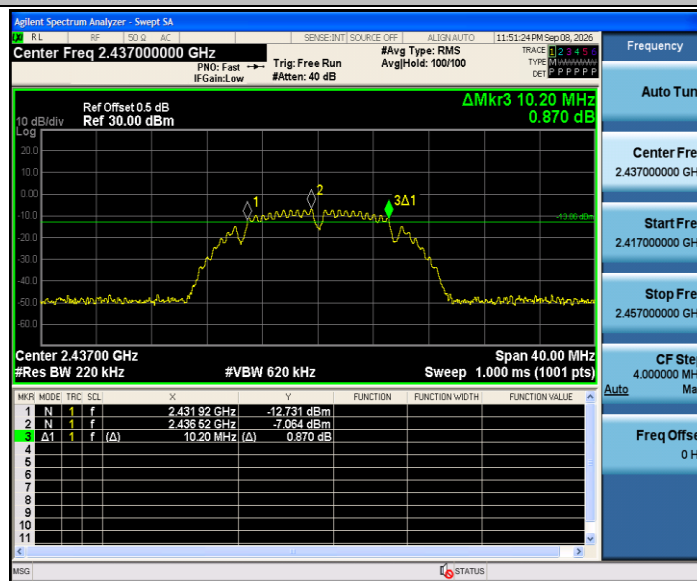
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.920	2417.120	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	16.040	2404.000	2420.040	0.5	PASS
		2437	15.960	2429.120	2445.080	0.5	PASS
		2462	15.960	2454.080	2470.040	0.5	PASS
11N20SISO	Ant1	2412	17.440	2403.280	2420.720	0.5	PASS
		2437	17.120	2428.480	2445.600	0.5	PASS
		2462	17.400	2453.360	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.360	2404.320	2439.680	0.5	PASS
		2437	35.600	2419.000	2454.600	0.5	PASS
		2452	35.680	2434.240	2469.920	0.5	PASS

Test Graphs

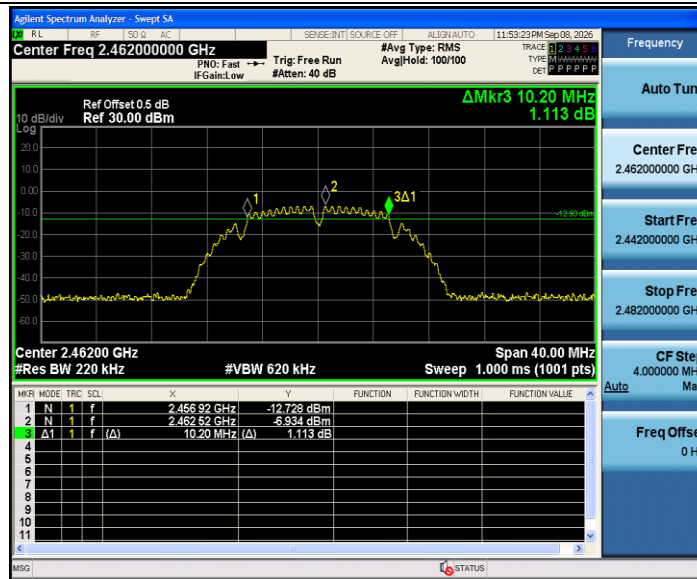
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



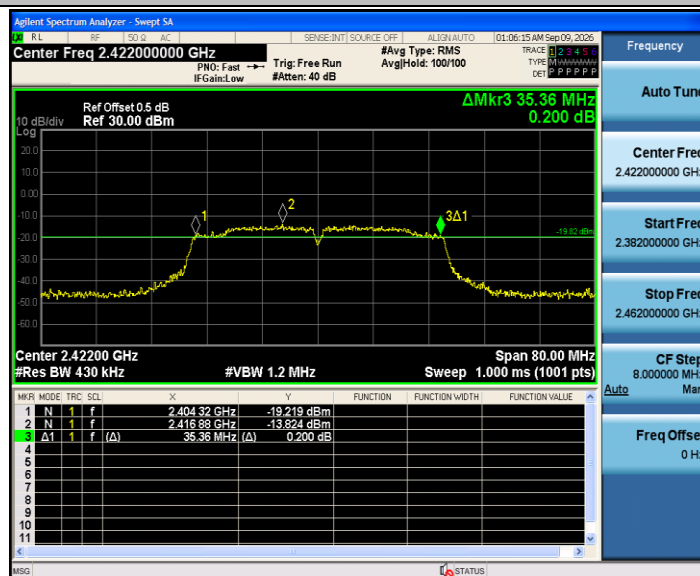
11N20SISO_Ant1_2437



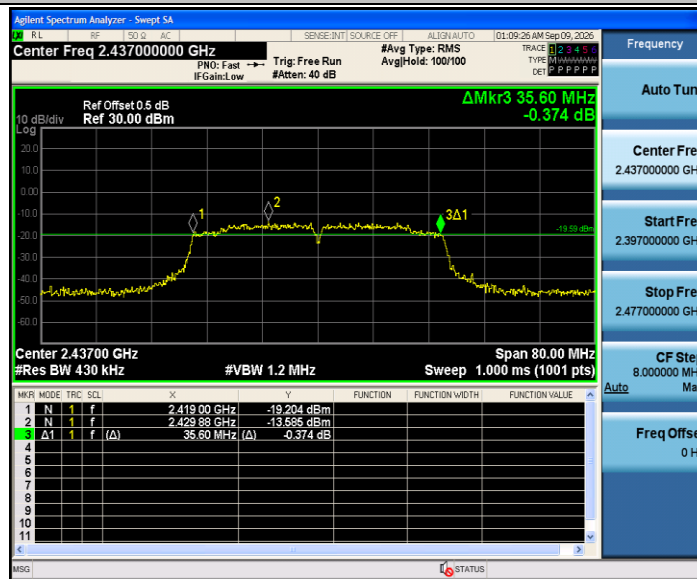
11N20SISO_Ant1_2462



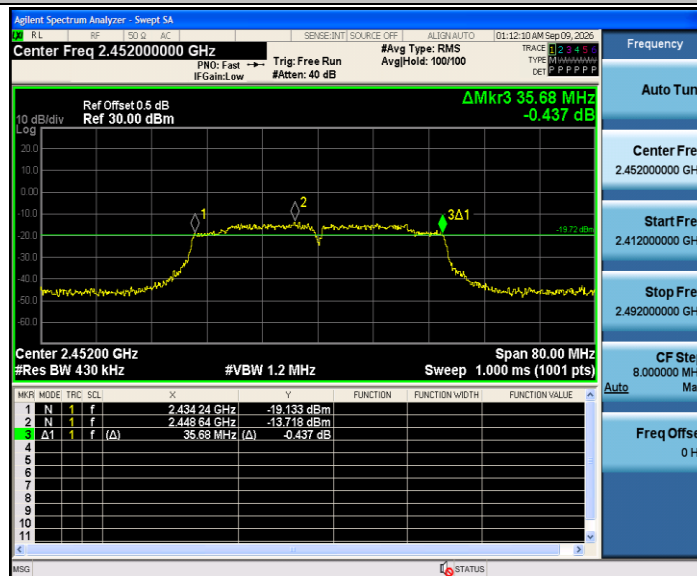
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



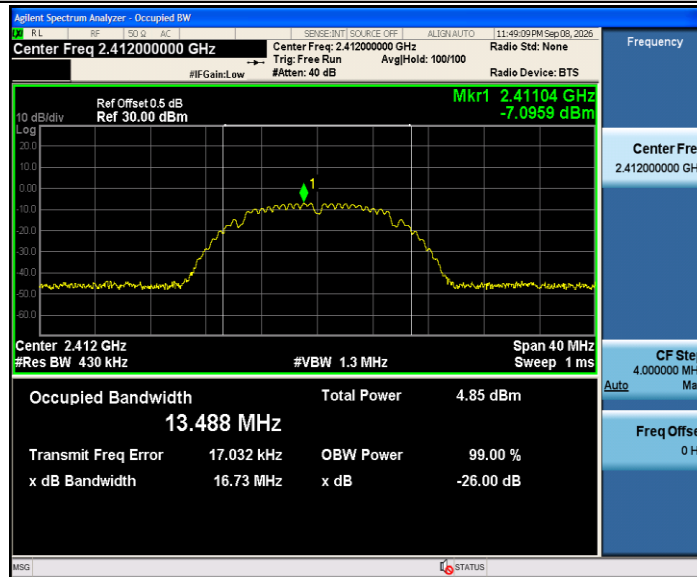
Appendix B: Occupied Channel Bandwidth

Test Result

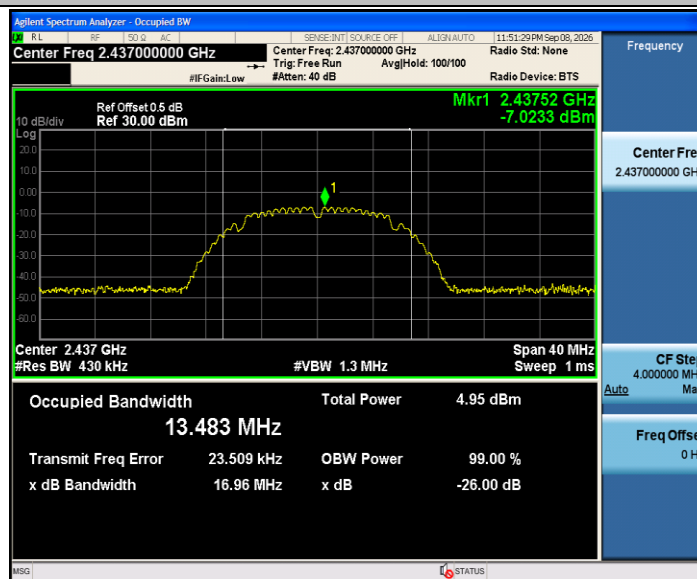
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.488	2405.2730	2418.7610	---	---
		2437	13.483	2430.2820	2443.7650	---	---
		2462	13.478	2455.2948	2468.7728	---	---
11G	Ant1	2412	16.969	2403.5368	2420.5058	---	---
		2437	16.930	2428.5228	2445.4528	---	---
		2462	16.986	2453.5874	2470.5734	---	---
11N20SISO	Ant1	2412	18.031	2403.0114	2421.0424	---	---
		2437	18.039	2428.0243	2446.0633	---	---
		2462	17.991	2453.0451	2471.0361	---	---
11N40SISO	Ant1	2422	36.222	2403.9570	2440.1790	---	---
		2437	36.250	2418.9563	2455.2063	---	---
		2452	36.203	2433.9572	2470.1602	---	---

Test Graphs

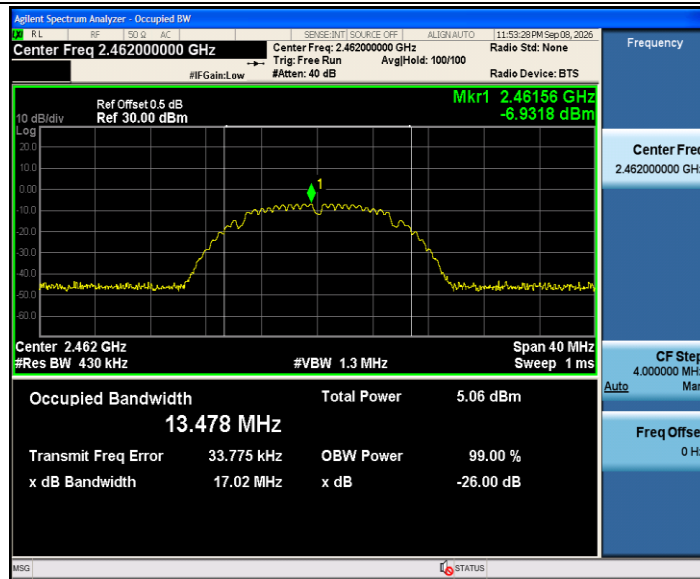
11B_Ant1_2412



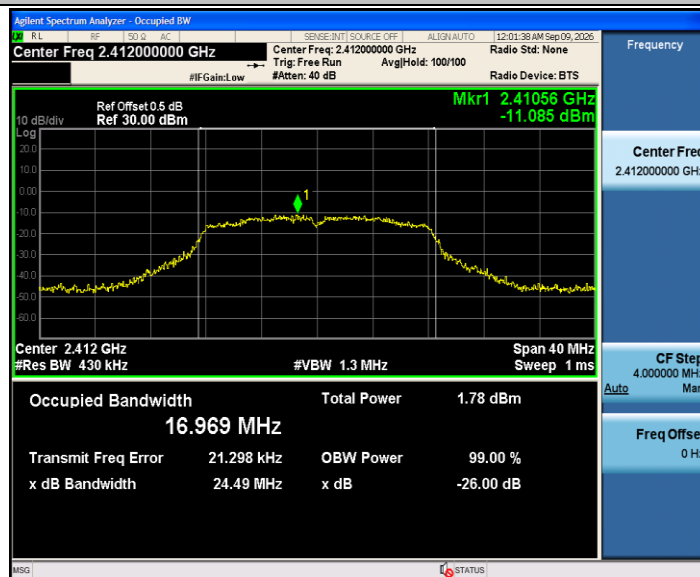
11B_Ant1_2437



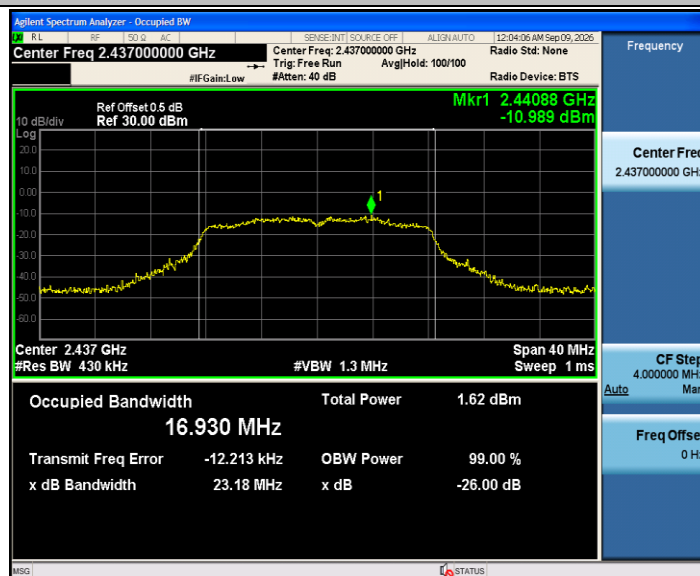
11B_Ant1_2462



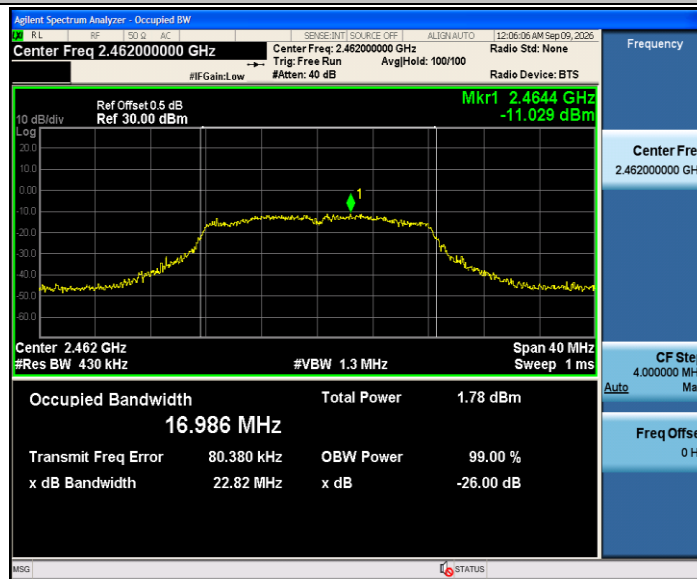
11G_Ant1_2412



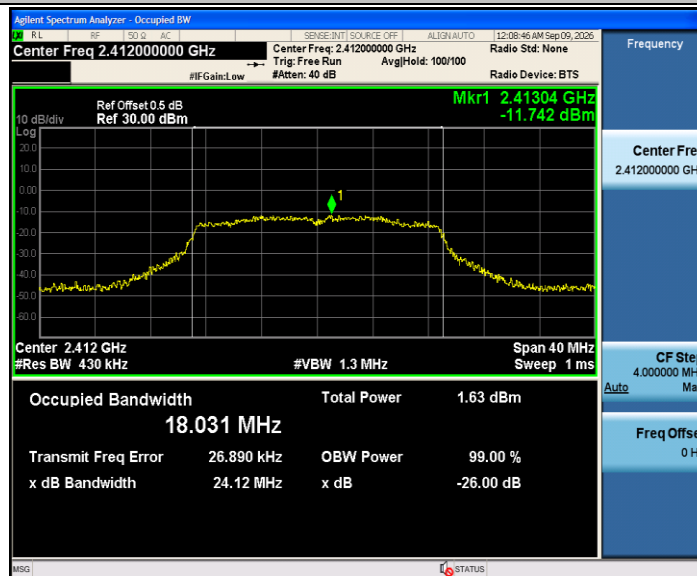
11G_Ant1_2437



11G_Ant1_2462



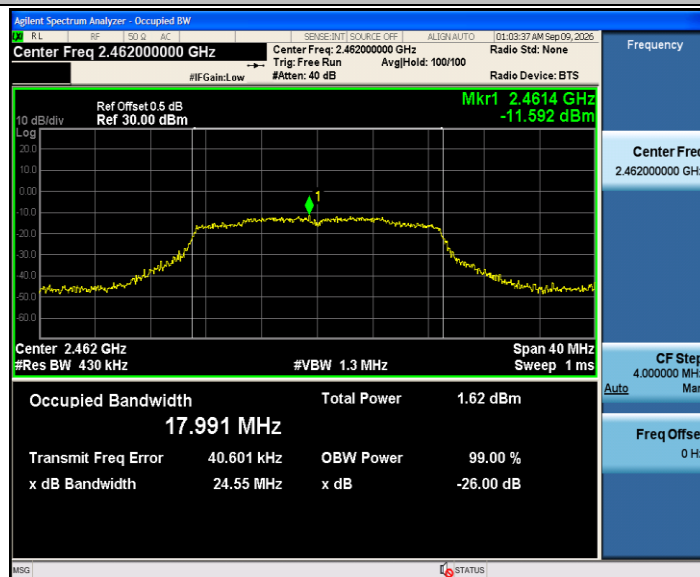
11N20SISO_Ant1_2412



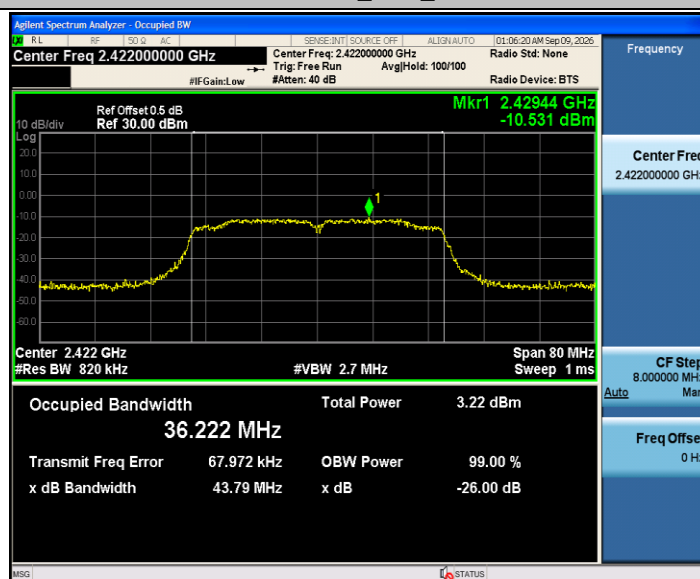
11N20SISO_Ant1_2437



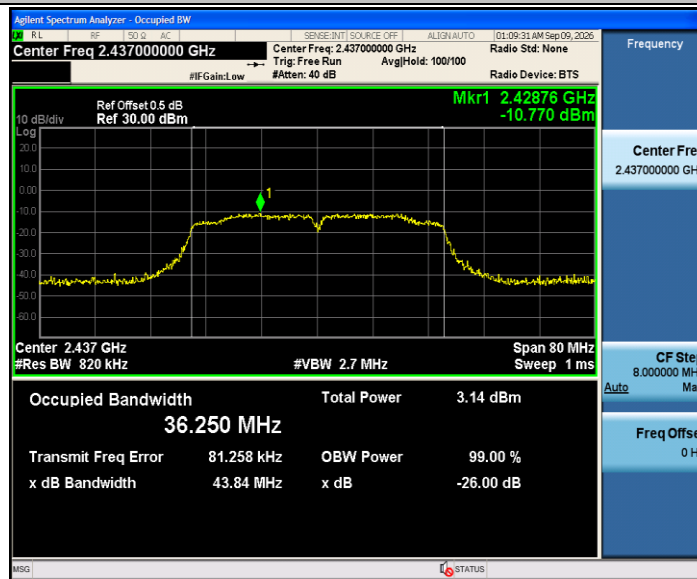
11N20SISO_Ant1_2462



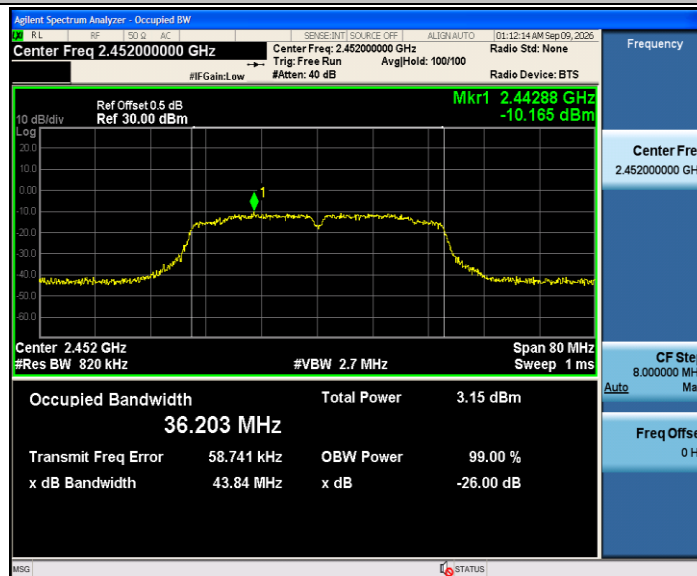
11N40SISO_Ant1_2422



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	Ant2	2412	4.51	≤30.00	PASS
		2437	4.70	≤30.00	PASS
		2462	4.80	≤30.00	PASS
11G	Ant2	2412	2.67	≤30.00	PASS
		2437	2.60	≤30.00	PASS
		2462	2.66	≤30.00	PASS
11N20SISO	Ant2	2412	2.55	≤30.00	PASS
		2437	2.50	≤30.00	PASS
		2462	2.63	≤30.00	PASS
11N40SISO	Ant2	2422	3.41	≤30.00	PASS
		2437	3.26	≤30.00	PASS
		2452	3.42	≤30.00	PASS

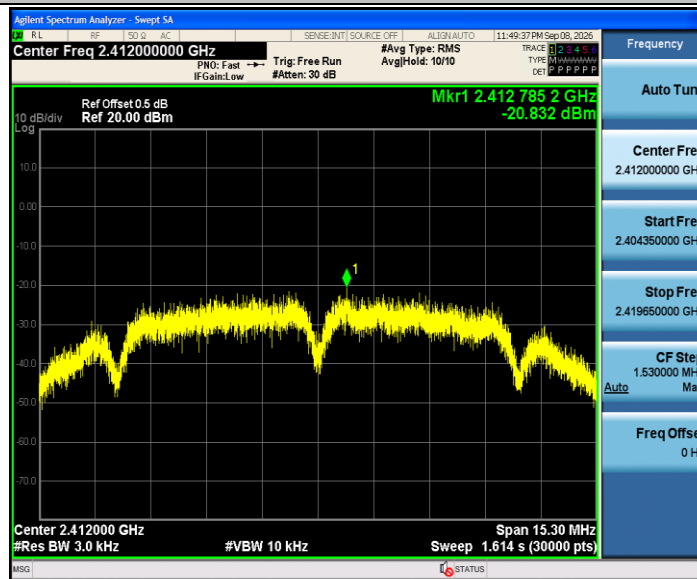
Appendix D: Maximum power spectral density

Test Result

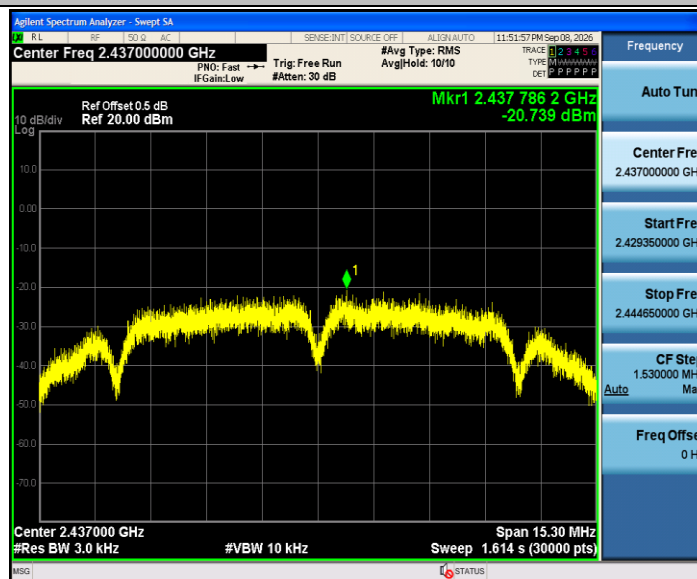
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-20.83	≤8.00	PASS
		2437	-20.74	≤8.00	PASS
		2462	-20.84	≤8.00	PASS
11G	Ant1	2412	-28.90	≤8.00	PASS
		2437	-28.66	≤8.00	PASS
		2462	-28.34	≤8.00	PASS
11N20SISO	Ant1	2412	-28.22	≤8.00	PASS
		2437	-28.79	≤8.00	PASS
		2462	-28.91	≤8.00	PASS
11N40SISO	Ant1	2422	-31.69	≤8.00	PASS
		2437	-31.84	≤8.00	PASS
		2452	-31.15	≤8.00	PASS

Test Graphs

11B_Ant1_2412



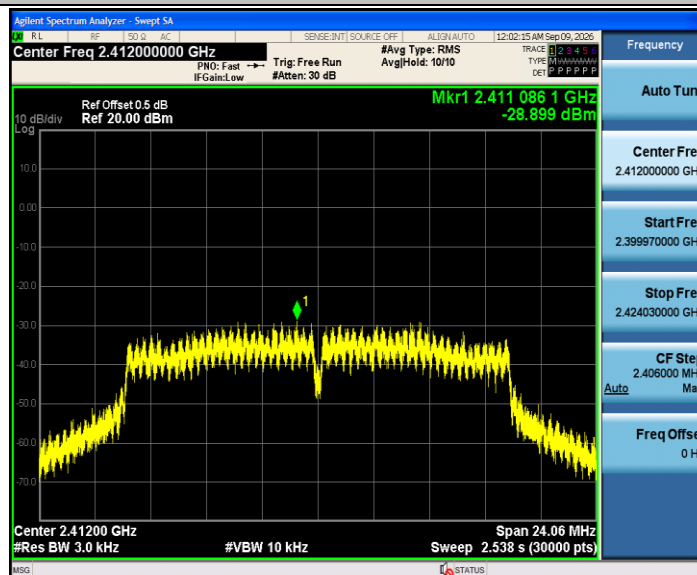
11B_Ant1_2437



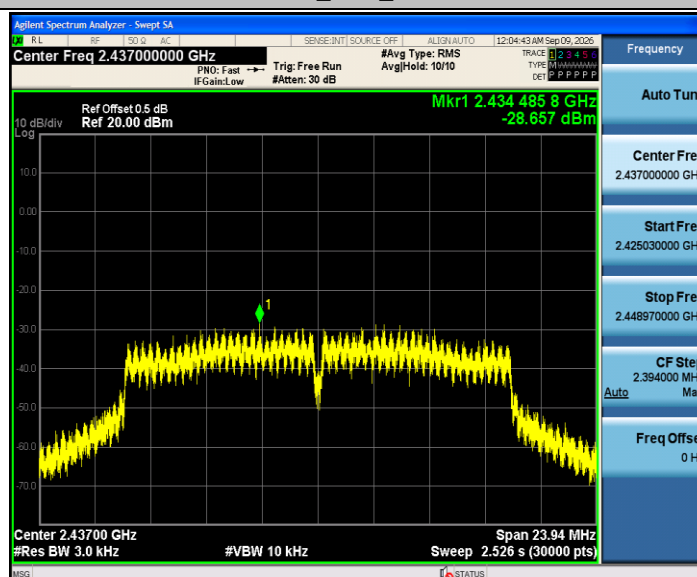
11B_Ant1_2462



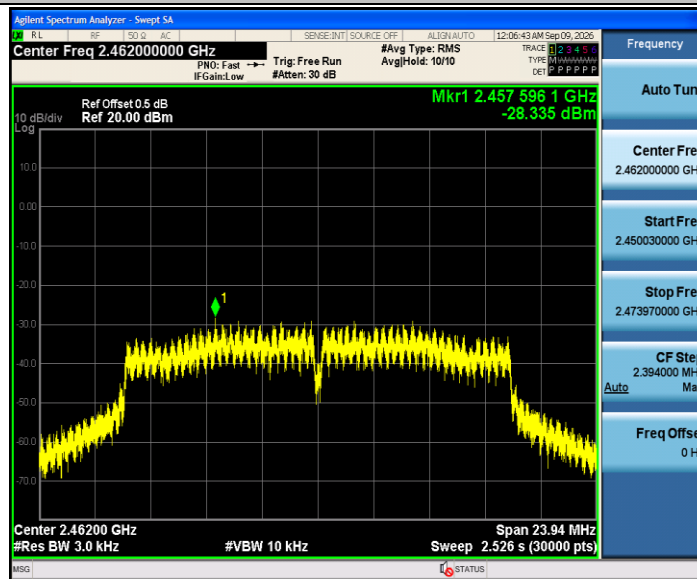
11G_Ant1_2412



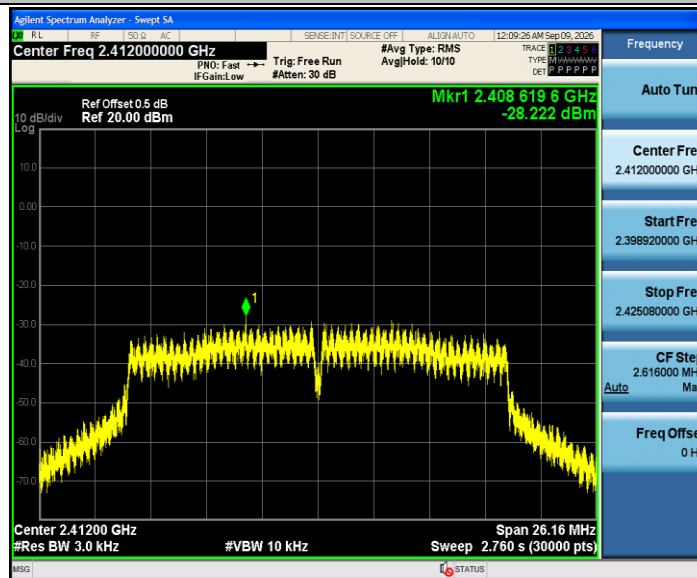
11G_Ant1_2437



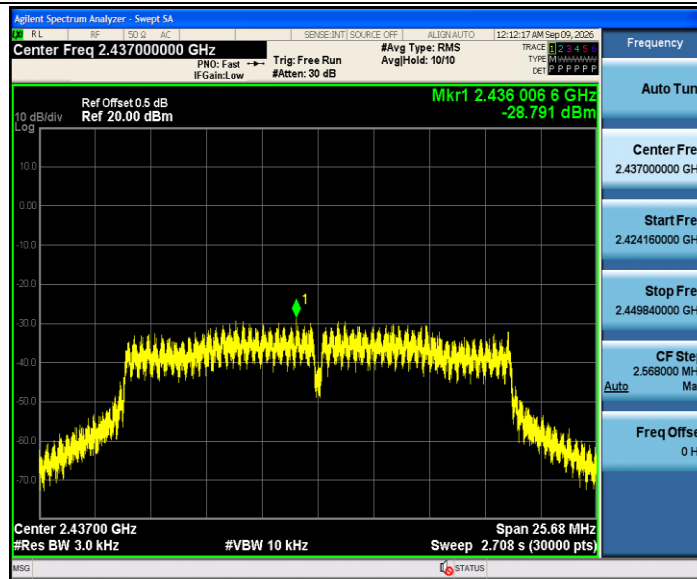
11G_Ant1_2462



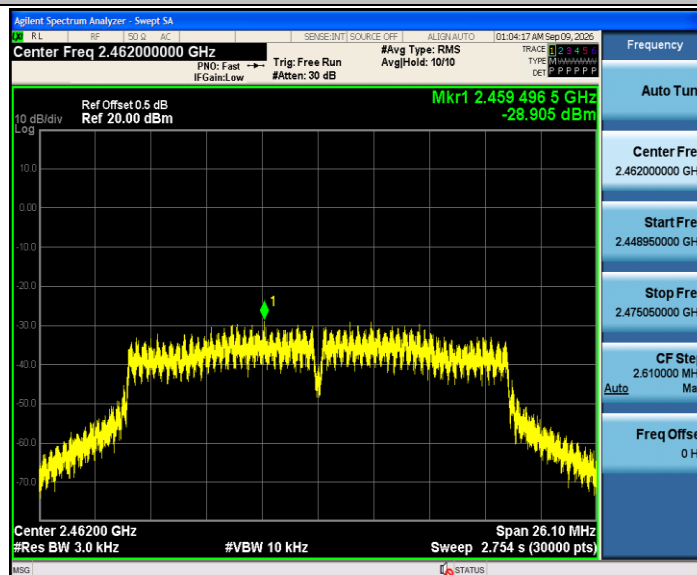
11N20SISO_Ant1_2412



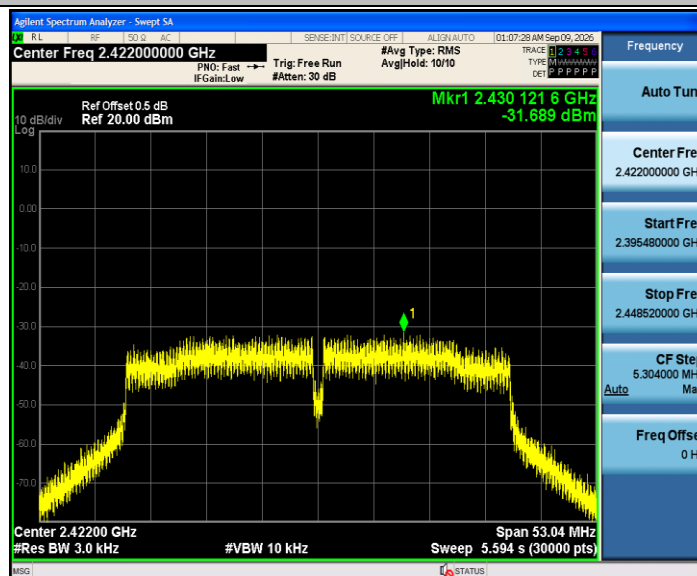
11N20SISO_Ant1_2437



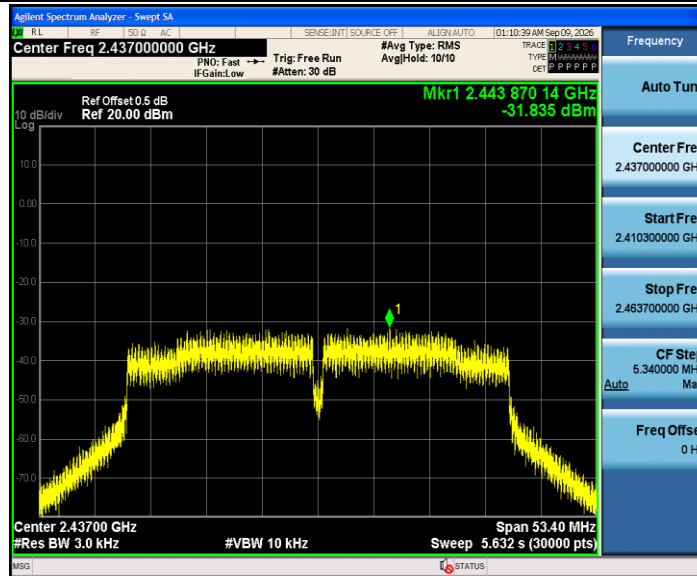
11N20SISO_Ant1_2462



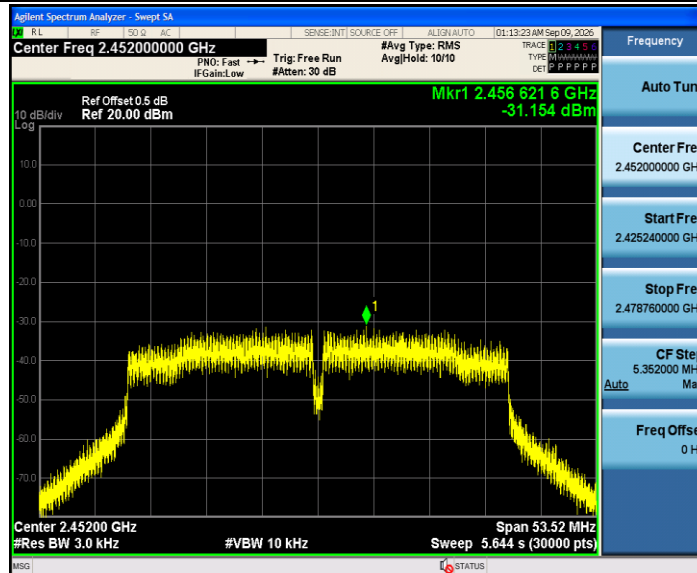
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



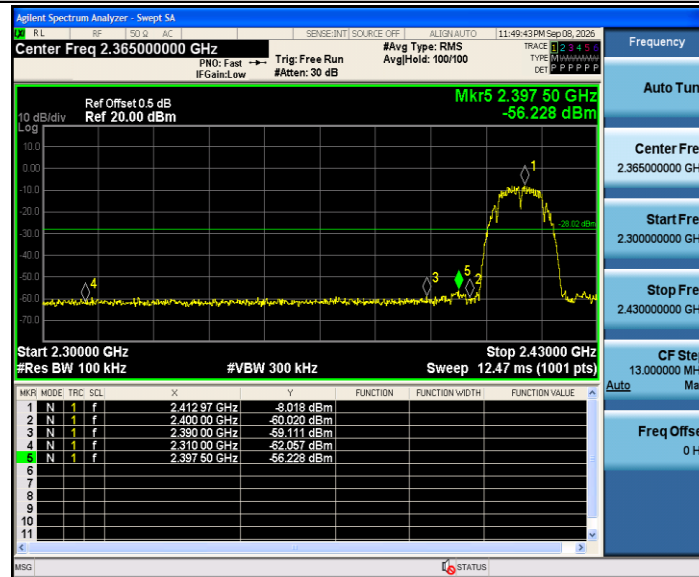
Appendix E: Band edge measurements

Test Result

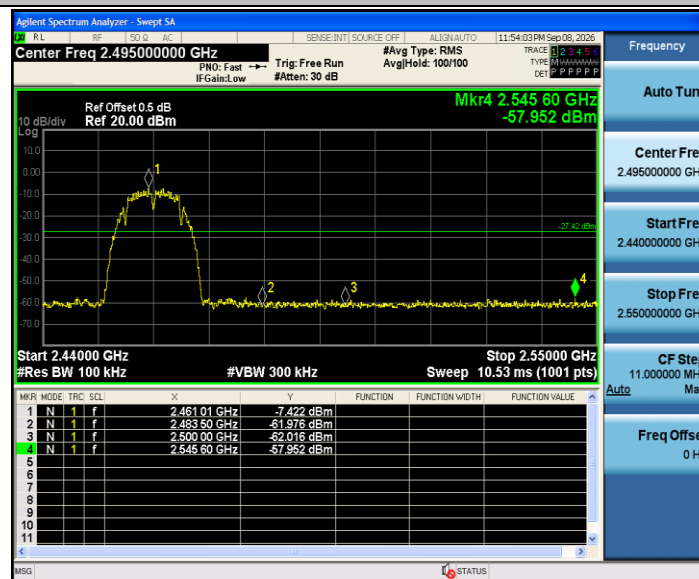
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-8.02	-56.23	≤-28.02	PASS
		High	2462	-7.42	-57.95	≤-27.42	PASS
11G	Ant1	Low	2412	-14.60	-44.56	≤-34.6	PASS
		High	2462	-14.00	-57.89	≤-34	PASS
11N20SISO	Ant1	Low	2412	-14.86	-44.59	≤-34.86	PASS
		High	2462	-17.58	-58.02	≤-37.58	PASS
11N40SISO	Ant1	Low	2422	-17.27	-44.59	≤-37.27	PASS
		High	2452	-17.36	-57.63	≤-37.36	PASS

Test Graphs

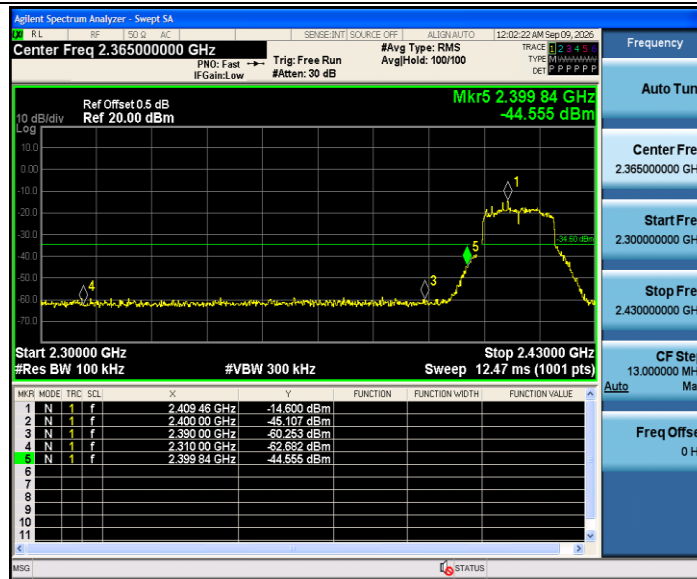
11B_Ant1_Low_2412



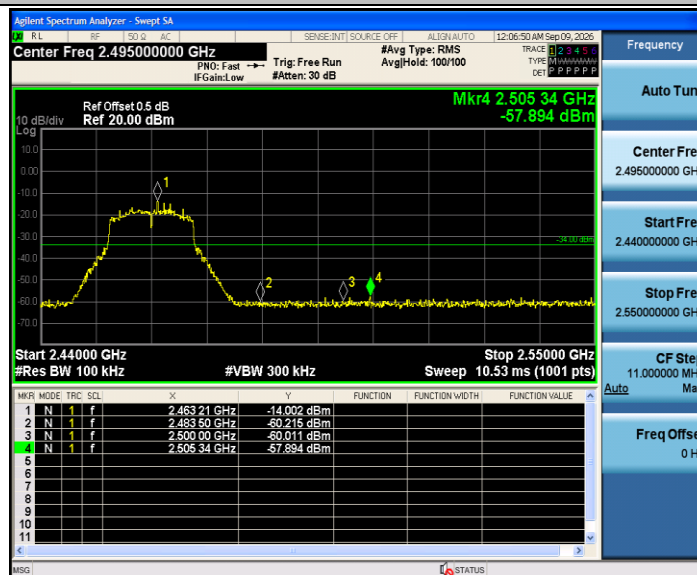
11B_Ant1_High_2462



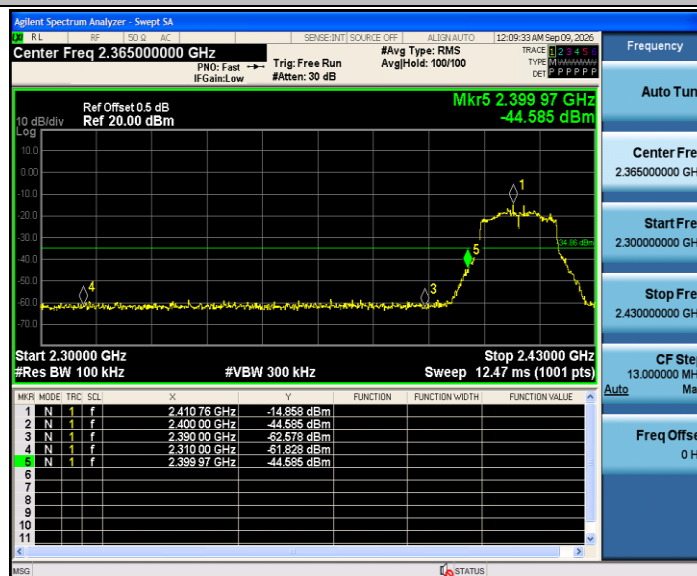
11G_Ant1_Low_2412



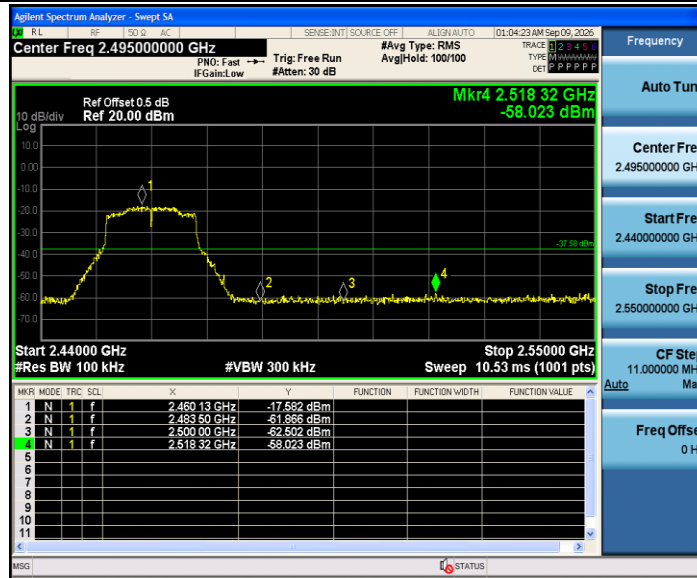
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



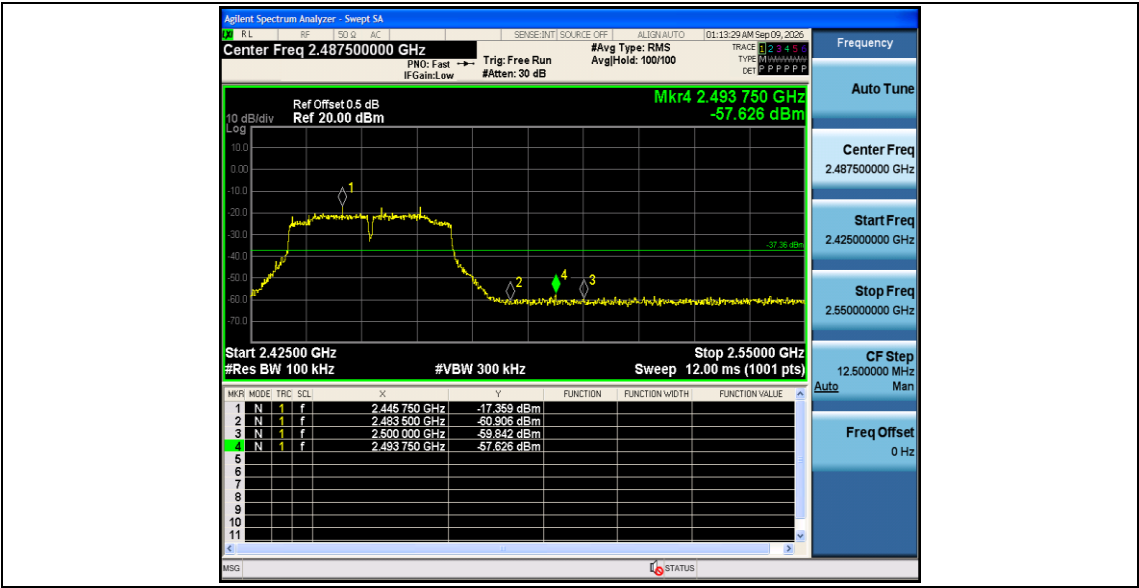
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

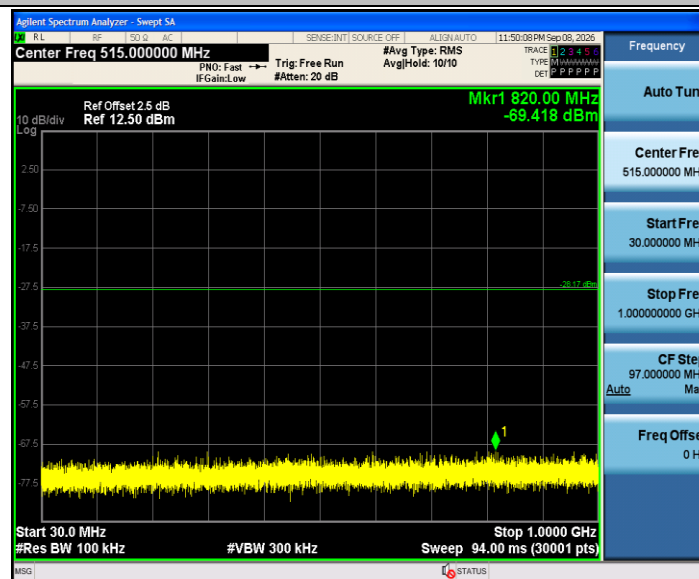
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-8.17	-8.17	---	PASS
			30~1000	-8.17	-69.42	≤-28.17	PASS
			1000~26500	-8.17	-46.23	≤-28.17	PASS
		2437	Reference	-8.78	-8.78	---	PASS
			30~1000	-8.78	-68.82	≤-28.78	PASS
			1000~26500	-8.78	-46.09	≤-28.78	PASS
		2462	Reference	-7.44	-7.44	---	PASS
			30~1000	-7.44	-68	≤-27.44	PASS
			1000~26500	-7.44	-46.89	≤-27.44	PASS
11G	Ant1	2412	Reference	-14.68	-14.68	---	PASS
			30~1000	-14.68	-69	≤-34.68	PASS
			1000~26500	-14.68	-46.3	≤-34.68	PASS
		2437	Reference	-18.07	-18.07	---	PASS
			30~1000	-18.07	-68.46	≤-38.07	PASS
			1000~26500	-18.07	-45.85	≤-38.07	PASS
		2462	Reference	-18.25	-18.25	---	PASS
			30~1000	-18.25	-69.33	≤-38.25	PASS
			1000~26500	-18.25	-45.86	≤-38.25	PASS
11N20SISO	Ant1	2412	Reference	-14.66	-14.66	---	PASS
			30~1000	-14.66	-68.98	≤-34.66	PASS
			1000~26500	-14.66	-46.71	≤-34.66	PASS
		2437	Reference	-18.19	-18.19	---	PASS
			30~1000	-18.19	-69.48	≤-38.19	PASS
			1000~26500	-18.19	-46.96	≤-38.19	PASS
		2462	Reference	-17.63	-17.63	---	PASS
			30~1000	-17.63	-68.58	≤-37.63	PASS
			1000~26500	-17.63	-45.6	≤-37.63	PASS
11N40SISO	Ant1	2422	Reference	-20.82	-20.82	---	PASS
			30~1000	-20.82	-68.6	≤-40.82	PASS
			1000~26500	-20.82	-45.86	≤-40.82	PASS
		2437	Reference	-20.93	-20.93	---	PASS
			30~1000	-20.93	-68.25	≤-40.93	PASS
			1000~26500	-20.93	-46.6	≤-40.93	PASS
		2452	Reference	-20.56	-20.56	---	PASS
			30~1000	-20.56	-67.86	≤-40.56	PASS
			1000~26500	-20.56	-45.36	≤-40.56	PASS

Test Graphs

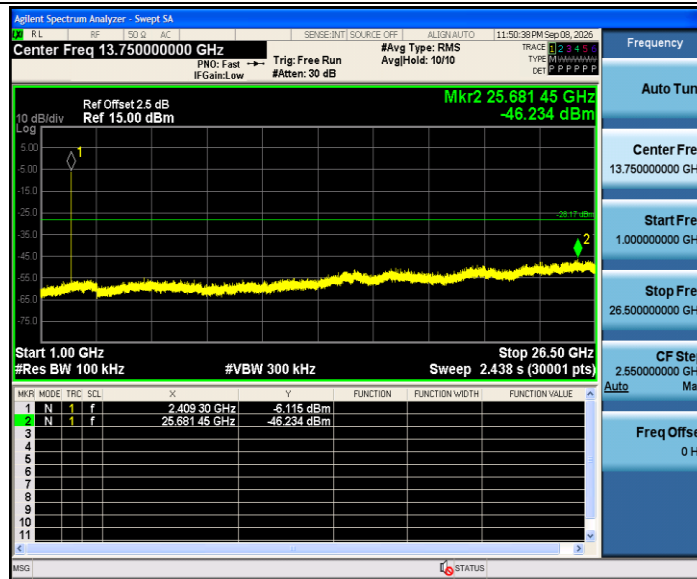
11B_Ant1_2412_0~Reference



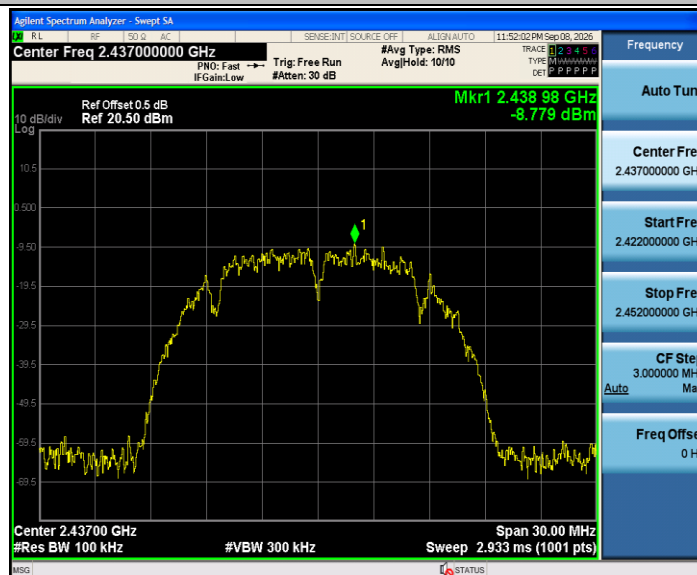
11B_Ant1_2412_30~1000



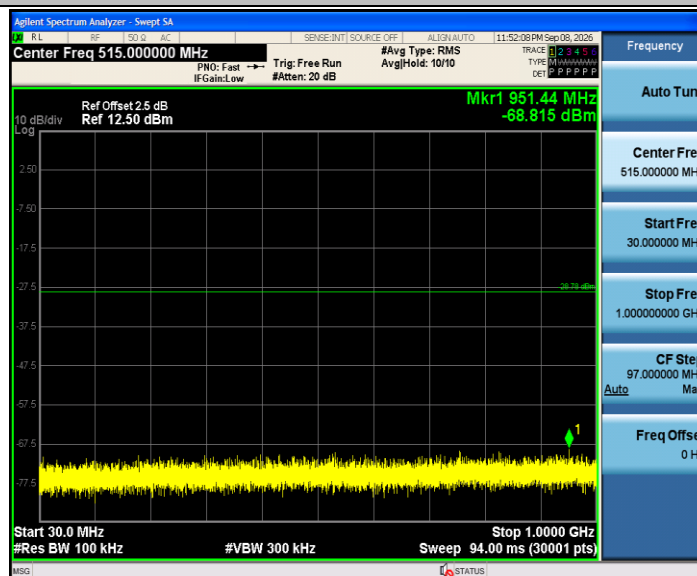
11B_Ant1_2412_1000~26500



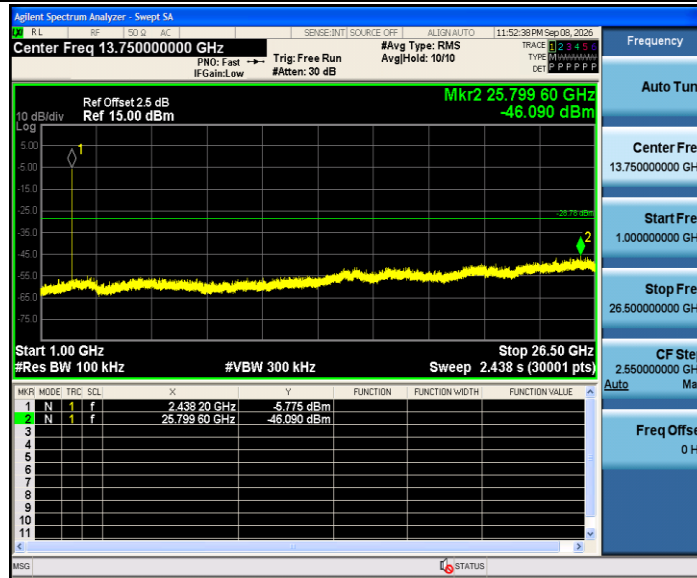
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



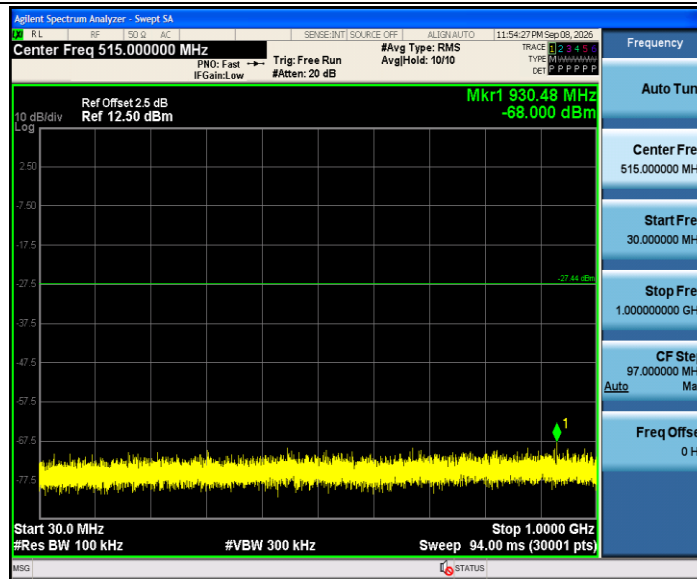
11B_Ant1_2437_1000~26500



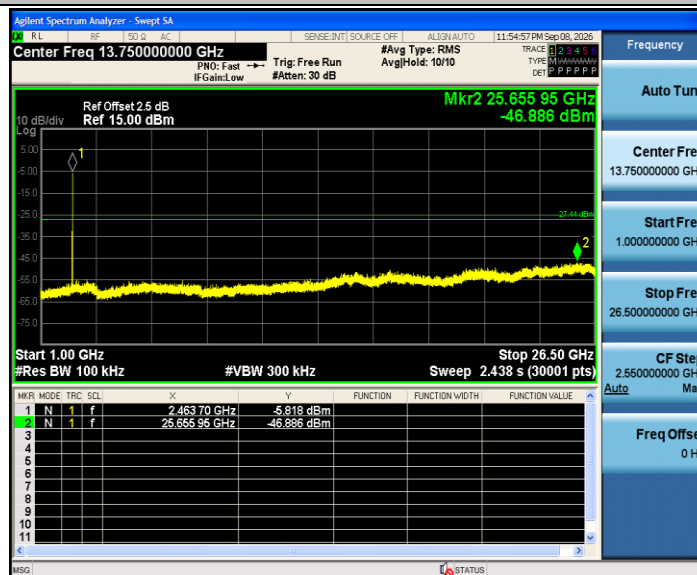
11B_Ant1_2462_0~Reference



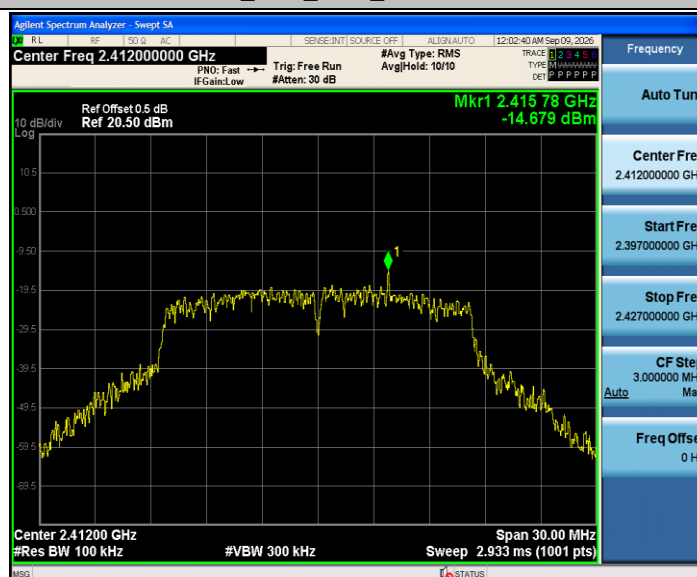
11B_Ant1_2462_30~1000



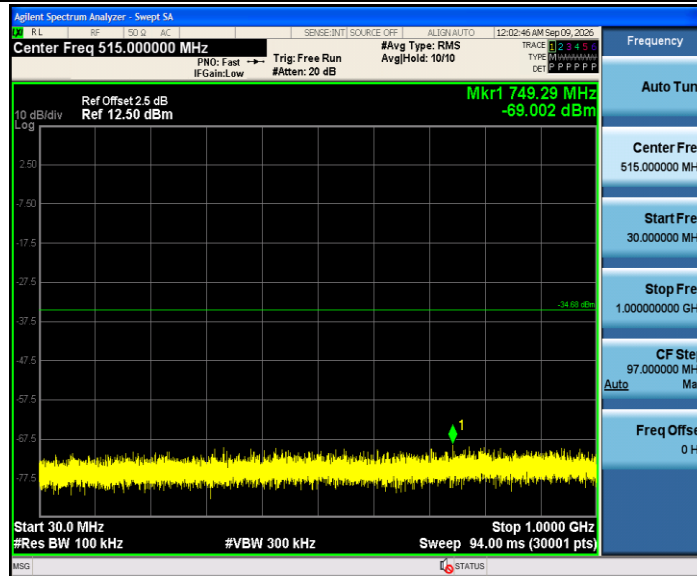
11B_Ant1_2462_1000~26500



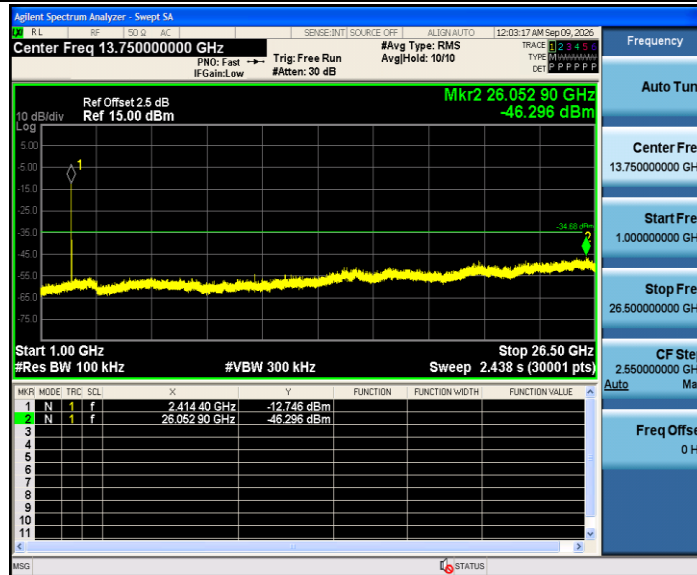
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



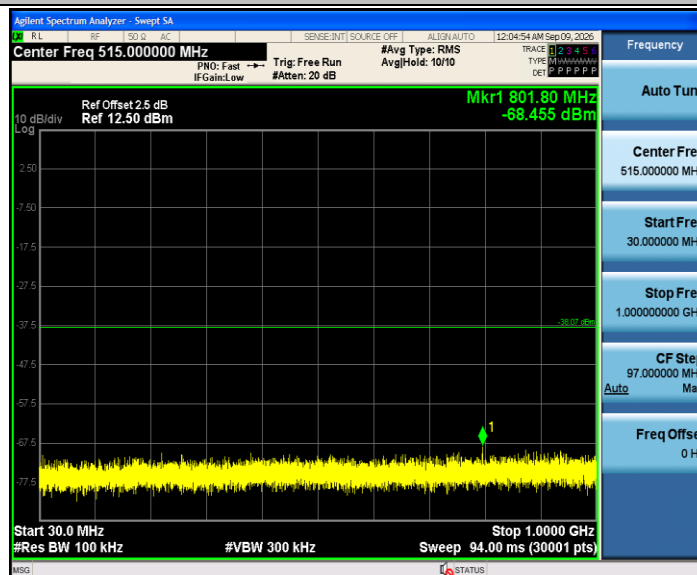
11G_Ant1_2412_1000~26500



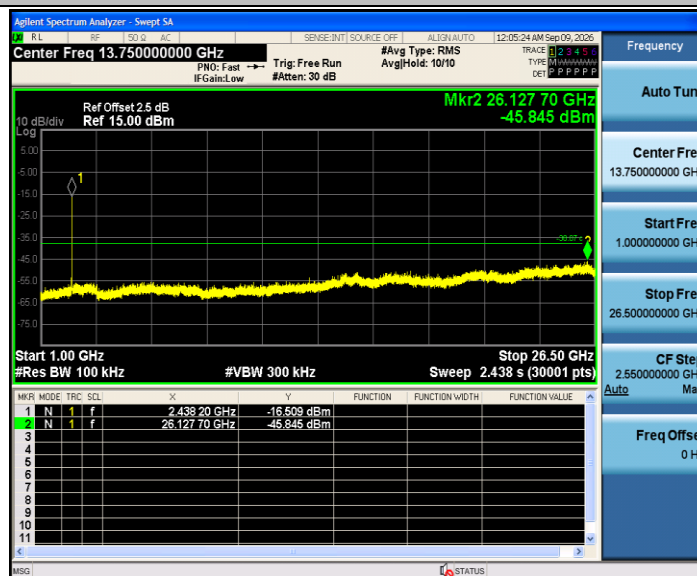
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



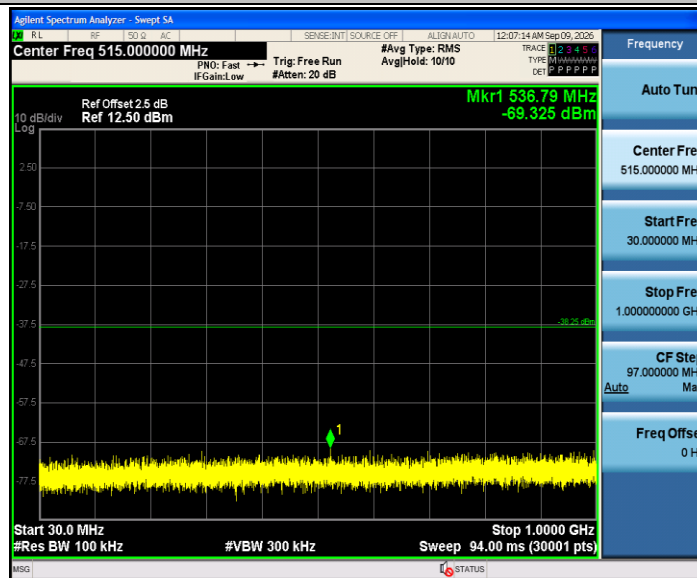
11G_Ant1_2437_1000~26500



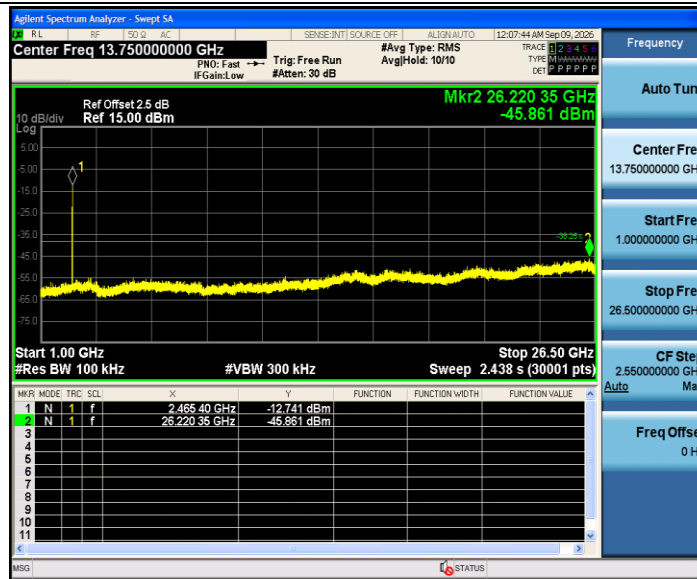
11G_Ant1_2462_0~Reference



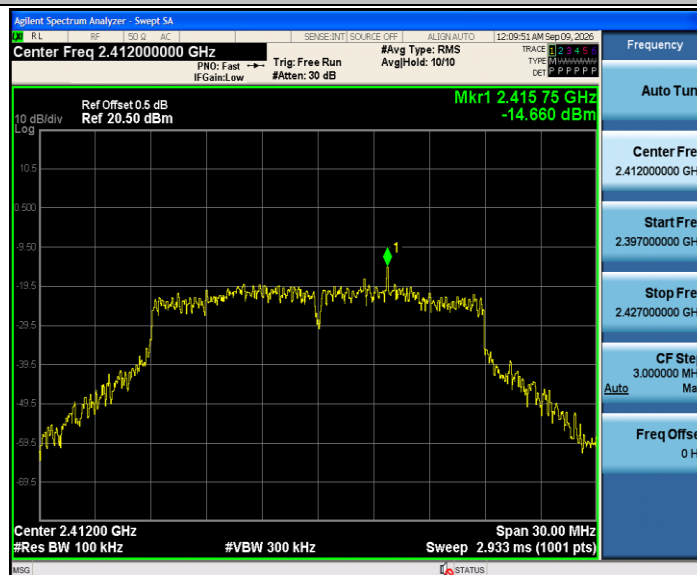
11G_Ant1_2462_30~1000



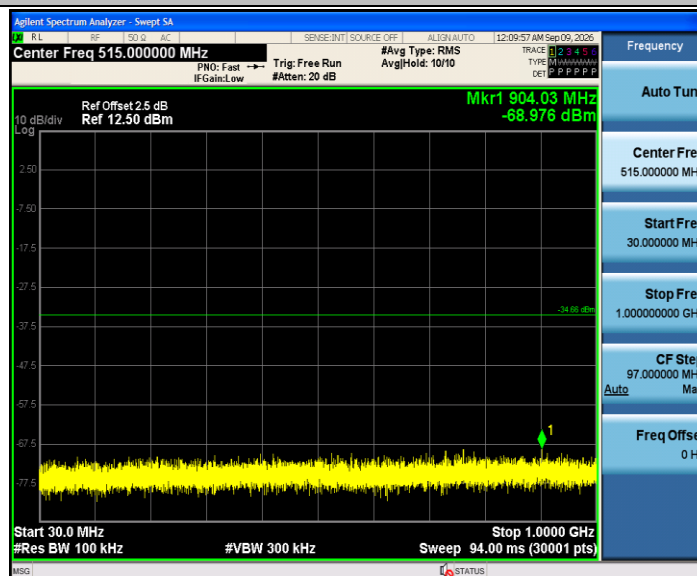
11G_Ant1_2462_1000~26500



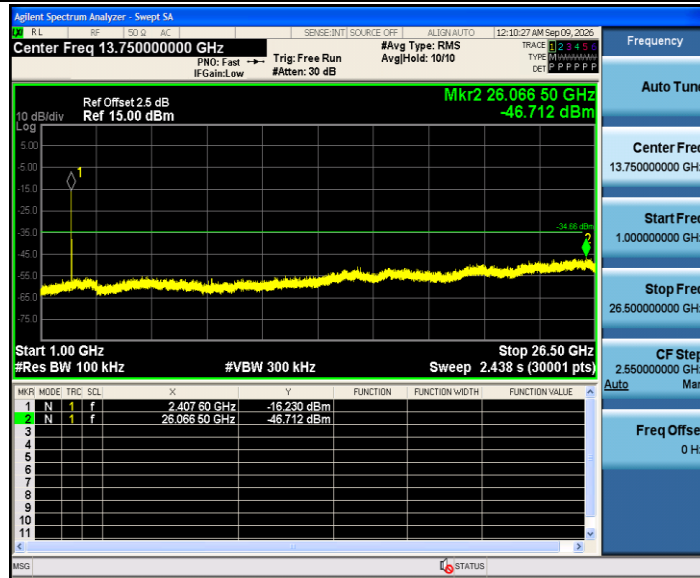
11N20SISO_Ant1_2412_0~Reference



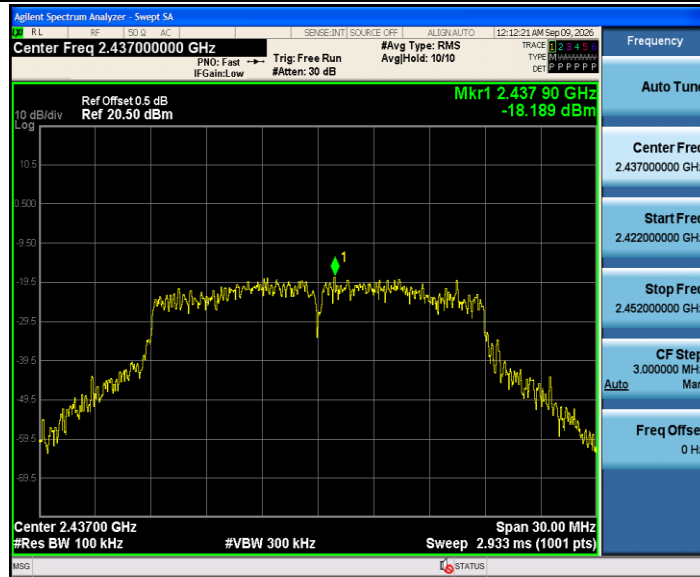
11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000