

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BSWZ-BV-4314US

Company : Shanghai Betvis Information Technology Co., Ltd.

EUT : DIGITAI LCD DISPLAY

Model Number : BV-4314US

Report No. : CTA25101001302

Reviewed By : Eric Wang

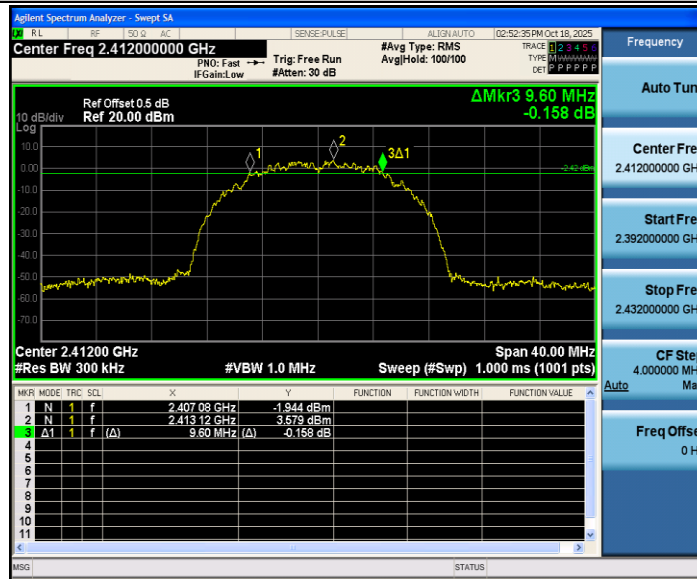
Appendix A: DTS Bandwidth

Test Result

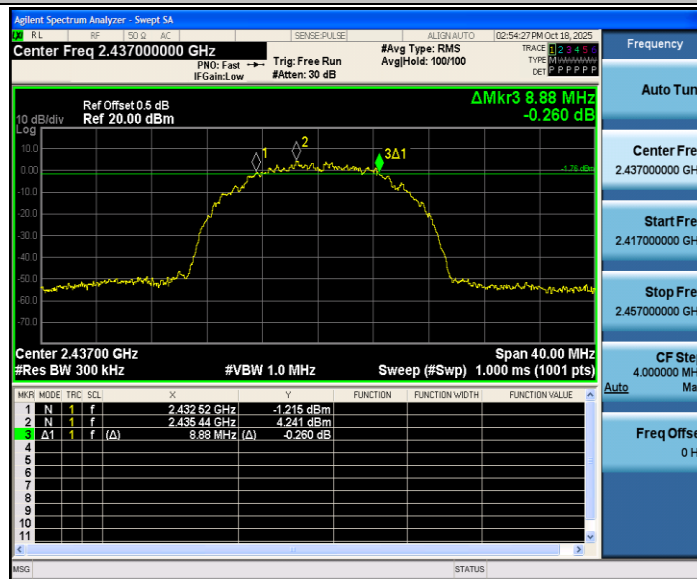
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.600	2407.080	2416.680	0.5	PASS
		2437	8.880	2432.520	2441.400	0.5	PASS
		2462	8.680	2457.480	2466.160	0.5	PASS
11G	Ant1	2412	16.240	2403.920	2420.160	0.5	PASS
		2437	16.360	2428.880	2445.240	0.5	PASS
		2462	16.320	2453.880	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.280	2403.400	2420.680	0.5	PASS
		2437	17.160	2428.400	2445.560	0.5	PASS
		2462	17.400	2453.320	2470.720	0.5	PASS
11N40SISO	Ant1	2422	34.080	2405.120	2439.200	0.5	PASS
		2437	34.160	2420.040	2454.200	0.5	PASS
		2452	34.000	2435.200	2469.200	0.5	PASS

Test Graphs

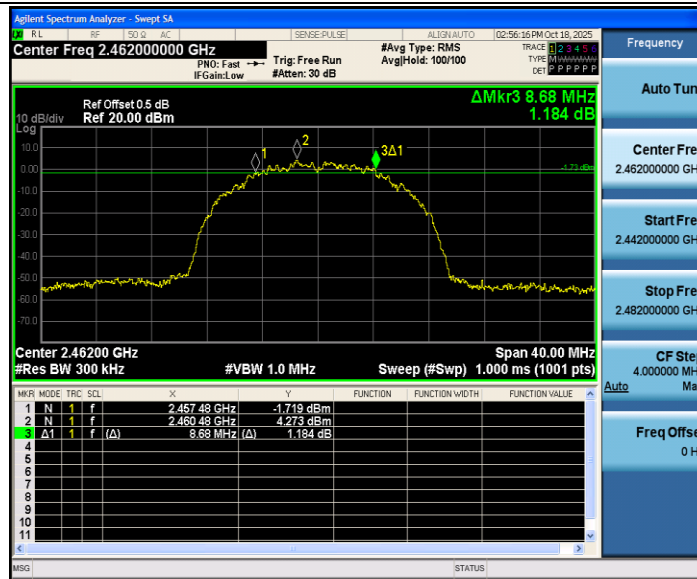
11B_Ant1_2412



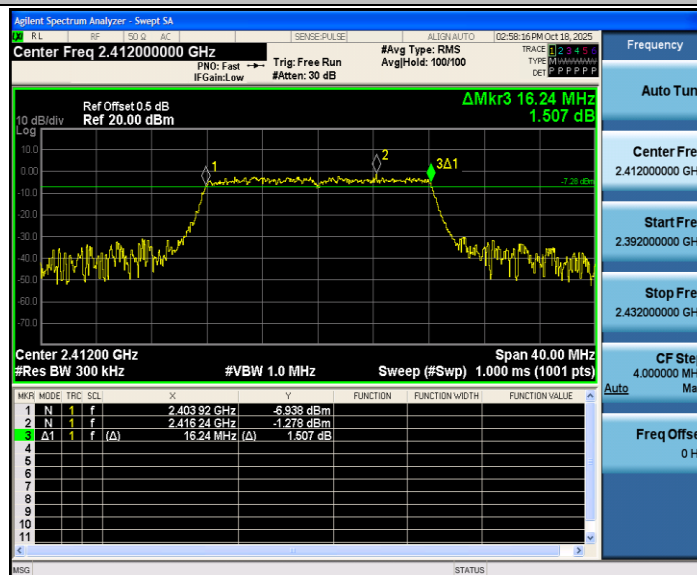
11B_Ant1_2437



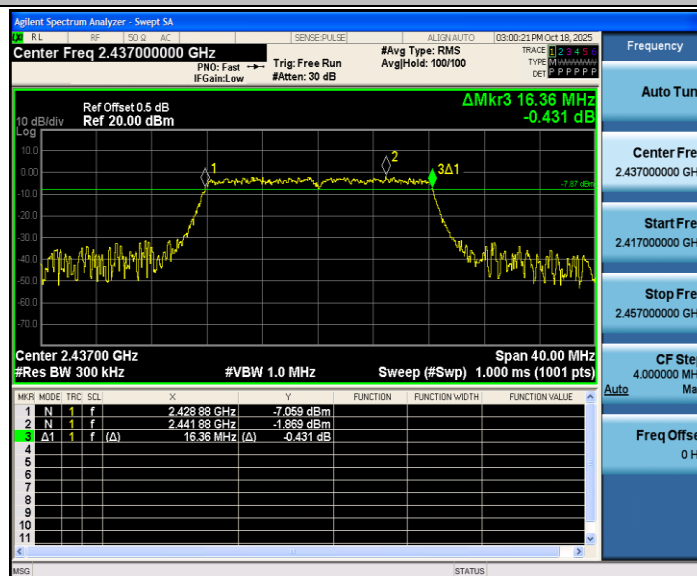
11B_Ant1_2462



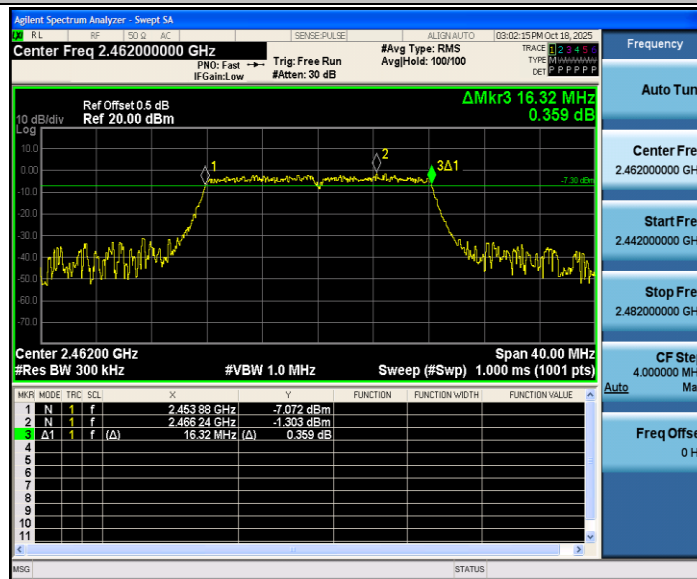
11G_Ant1_2412



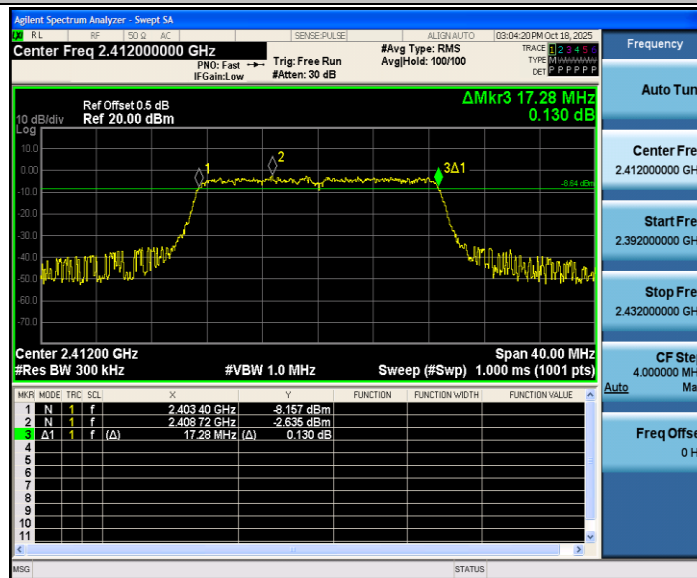
11G_Ant1_2437



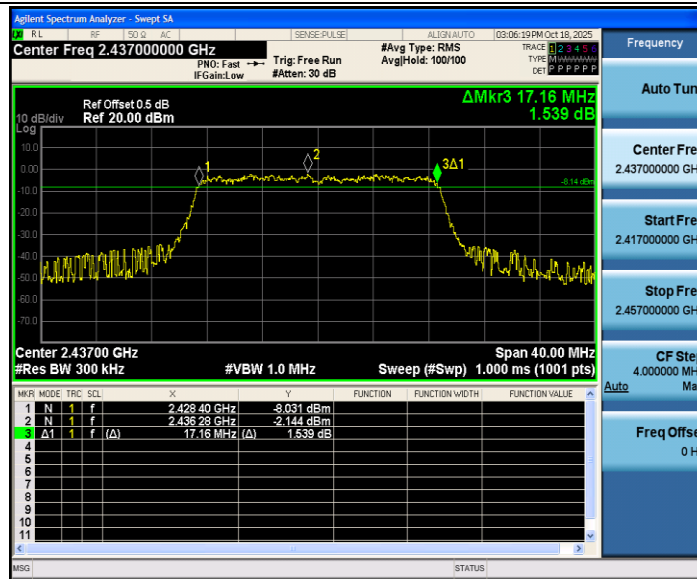
11G_Ant1_2462



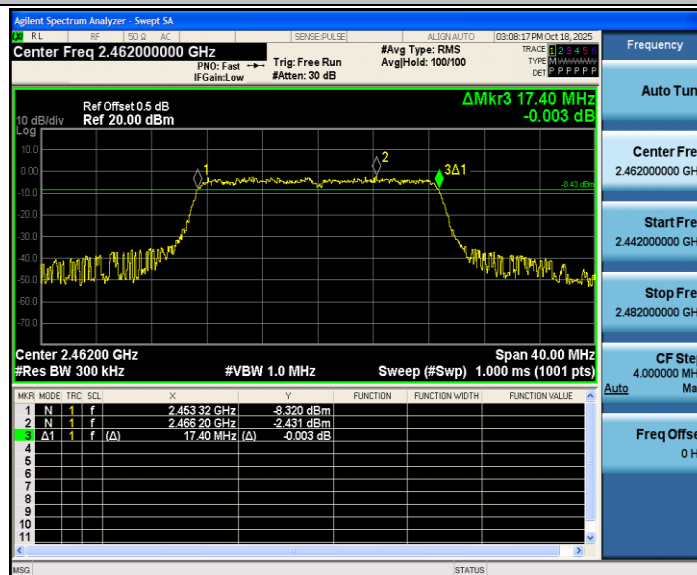
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



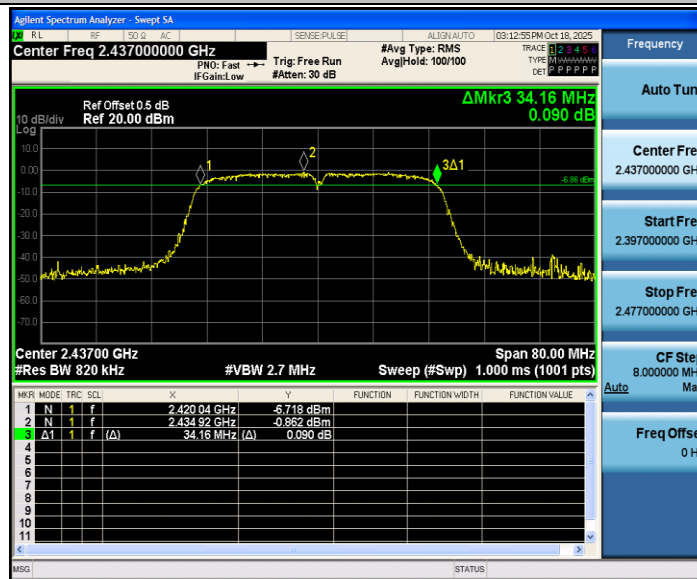
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



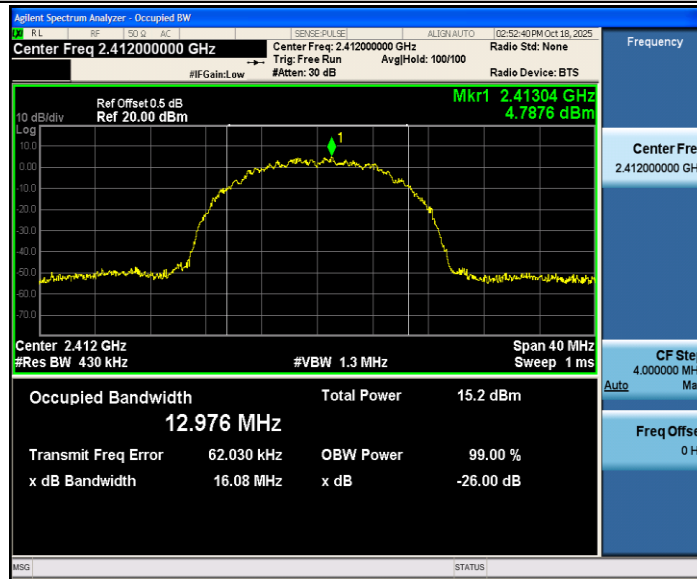
Appendix B: Occupied Channel Bandwidth

Test Result

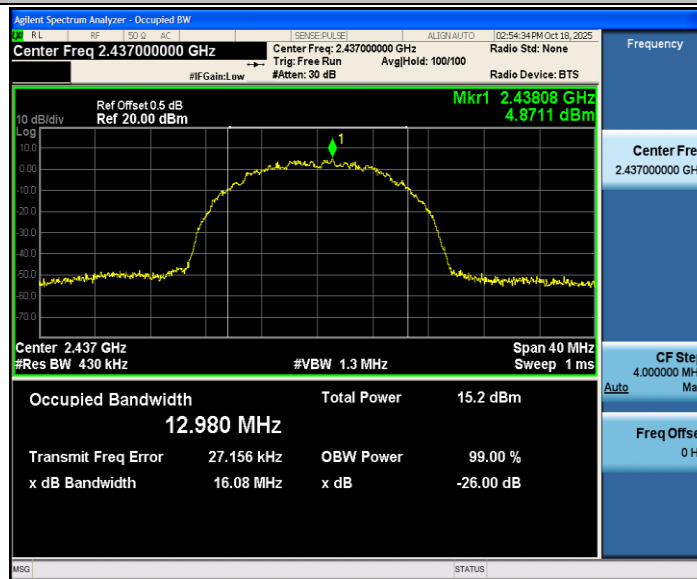
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.976	2405.5740	2418.5500	---	---
		2437	12.980	2430.5372	2443.5172	---	---
		2462	12.973	2455.5417	2468.5147	---	---
11G	Ant1	2412	16.612	2403.7255	2420.3375	---	---
		2437	16.613	2428.7401	2445.3531	---	---
		2462	16.603	2453.7345	2470.3375	---	---
11N20SISO	Ant1	2412	17.468	2403.3229	2420.7909	---	---
		2437	17.499	2428.3053	2445.8043	---	---
		2462	17.441	2453.3170	2470.7580	---	---
11N40SISO	Ant1	2422	34.852	2404.7191	2439.5711	---	---
		2437	34.833	2419.6881	2454.5211	---	---
		2452	34.901	2434.7032	2469.6042	---	---

Test Graphs

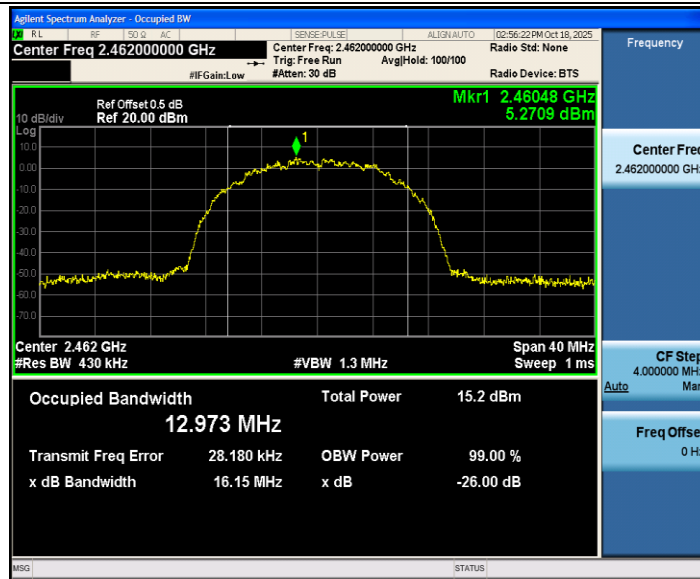
11B_Ant1_2412



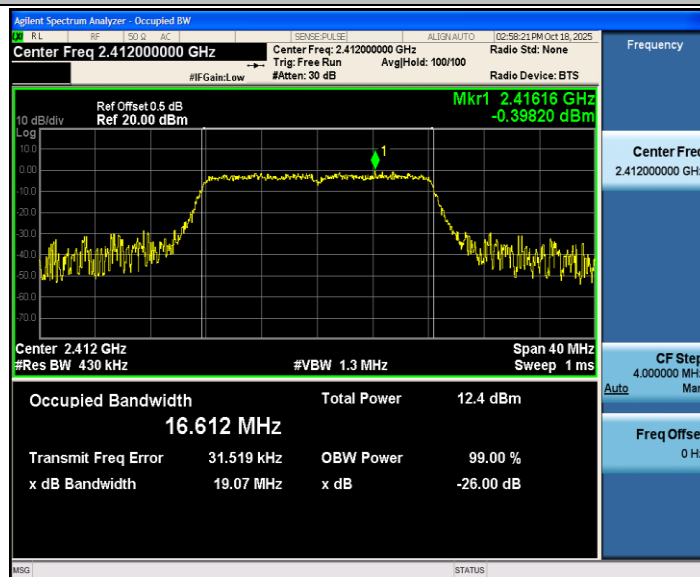
11B_Ant1_2437



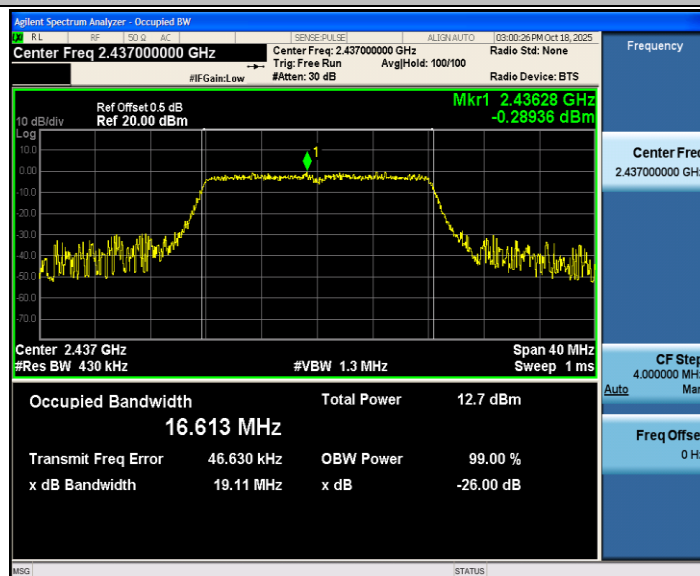
11B_Ant1_2462



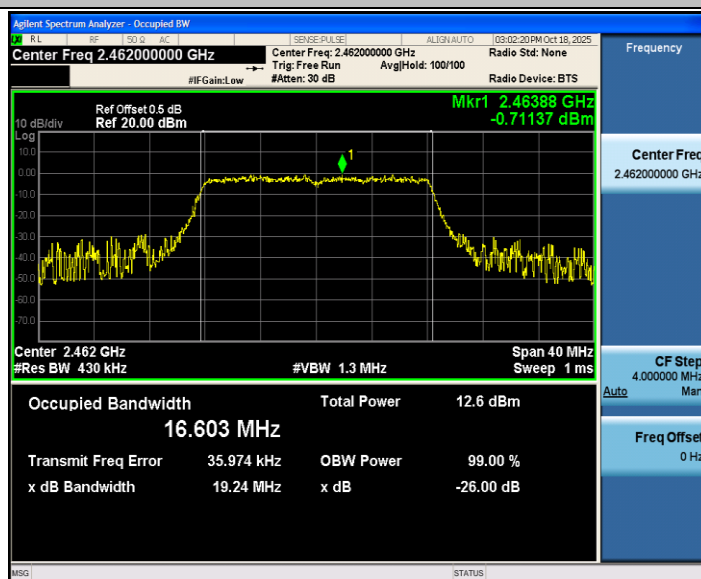
11G_Ant1_2412



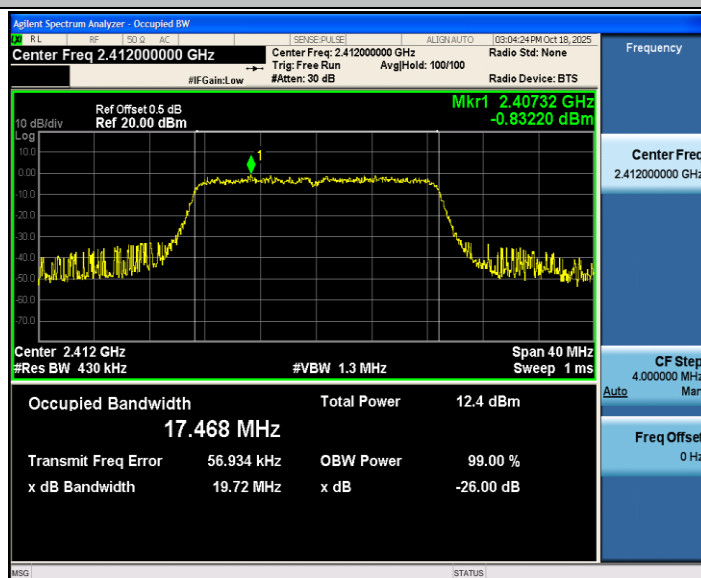
11G_Ant1_2437



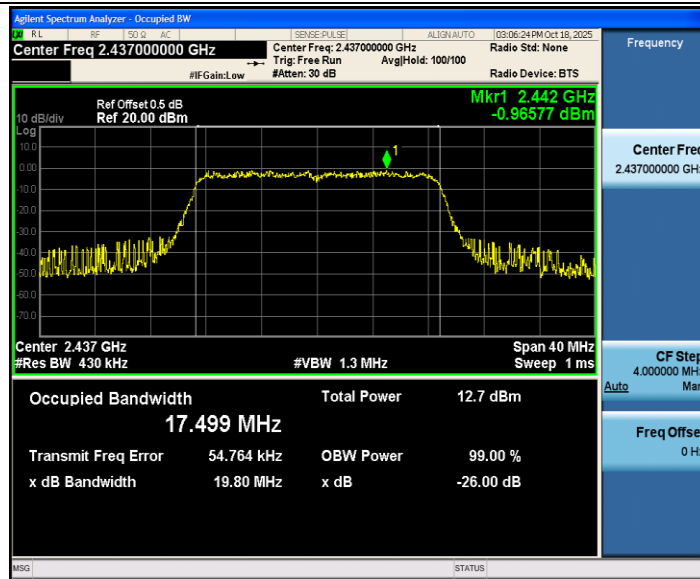
11G_Ant1_2462



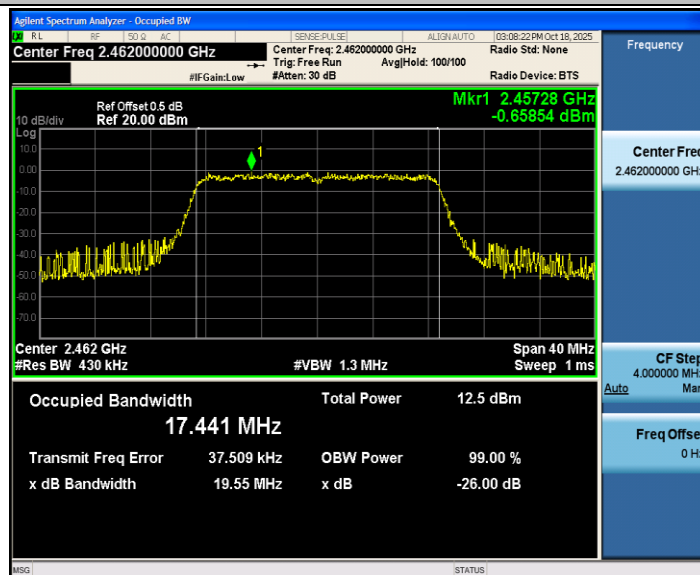
11N20SISO_Ant1_2412



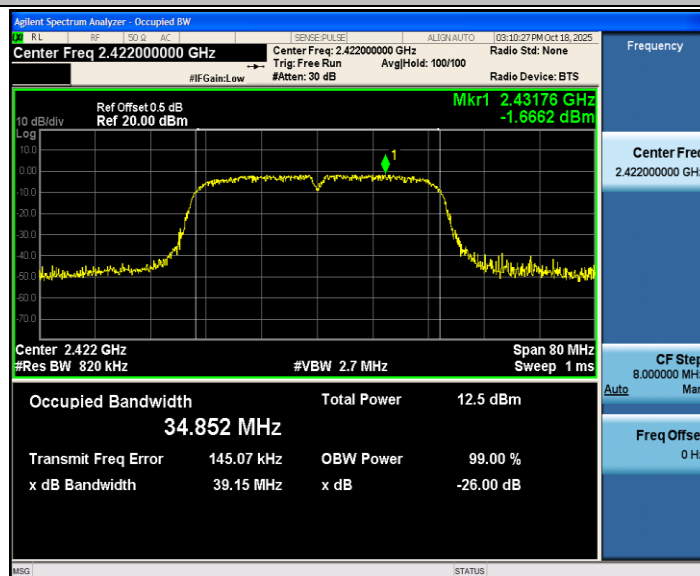
11N20SISO_Ant1_2437



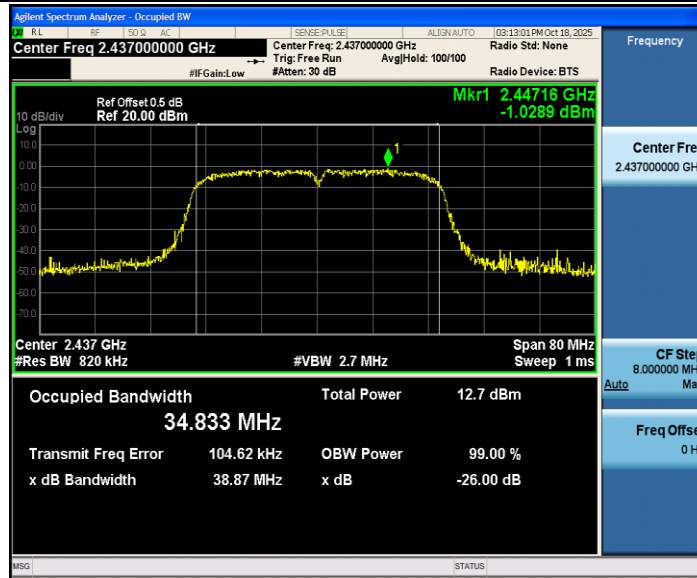
11N20SISO_Ant1_2462



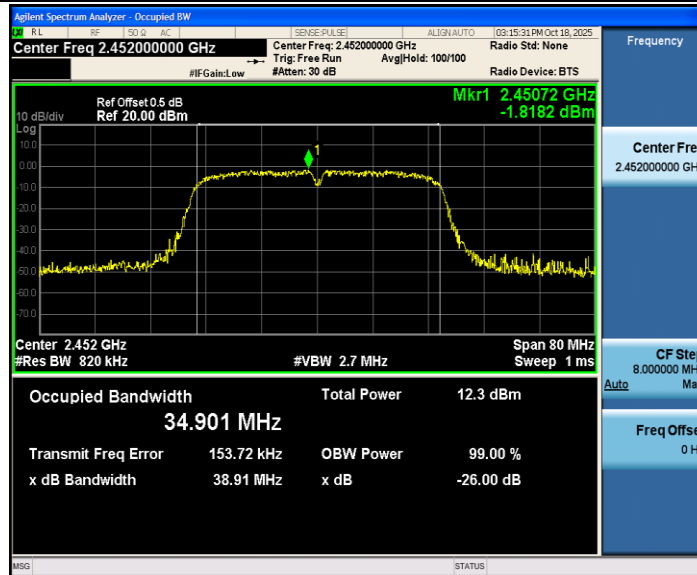
11N40SISO_Ant1_2422



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	14.91	≤30.00	PASS
		2437	14.74	≤30.00	PASS
		2462	14.55	≤30.00	PASS
11G	Ant1	2412	13.12	≤30.00	PASS
		2437	13.67	≤30.00	PASS
		2462	13.52	≤30.00	PASS
11N20SISO	Ant1	2412	13.50	≤30.00	PASS
		2437	13.89	≤30.00	PASS
		2462	13.77	≤30.00	PASS
11N40SISO	Ant1	2422	12.85	≤30.00	PASS
		2437	12.90	≤30.00	PASS
		2452	12.63	≤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	-14.17	≤8.00	PASS
		2437	-14.02	≤8.00	PASS
		2462	-14.14	≤8.00	PASS
11G	Ant1	2412	-21.20	≤8.00	PASS
		2437	-20.78	≤8.00	PASS
		2462	-20.95	≤8.00	PASS
11N20SISO	Ant1	2412	-20.93	≤8.00	PASS
		2437	-20.60	≤8.00	PASS
		2462	-20.60	≤8.00	PASS
11N40SISO	Ant1	2422	-22.88	≤8.00	PASS
		2437	-22.52	≤8.00	PASS
		2452	-22.46	≤8.00	PASS

Test Graphs

11B_Ant1_2412



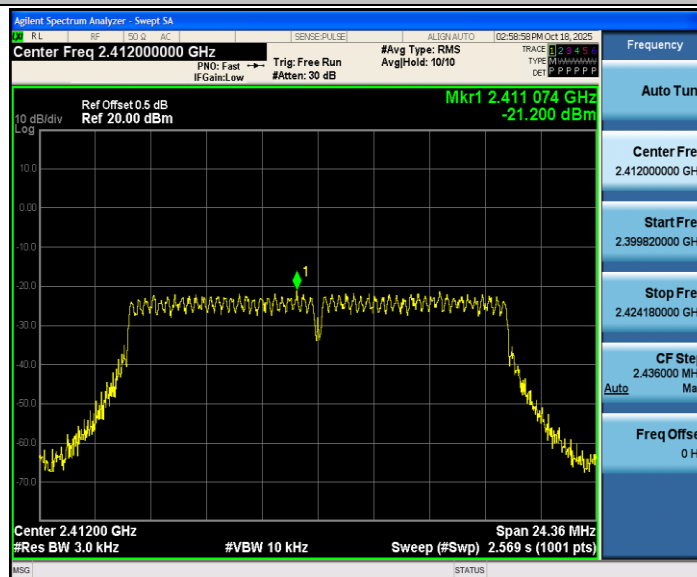
11B_Ant1_2437



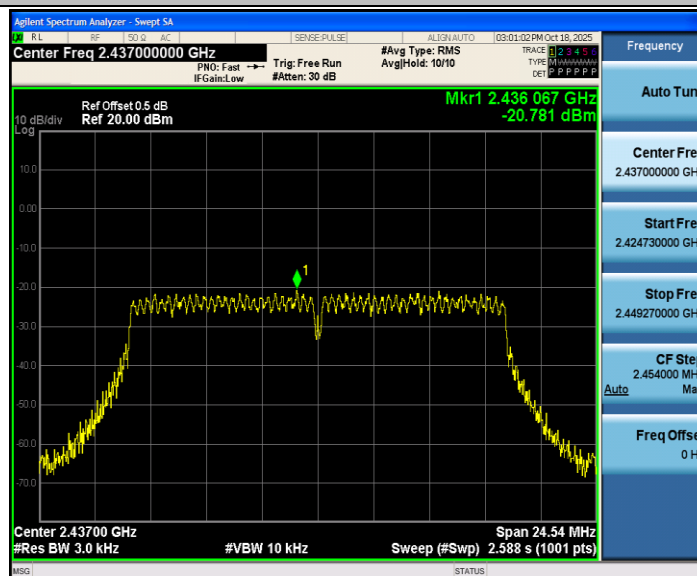
11B_Ant1_2462



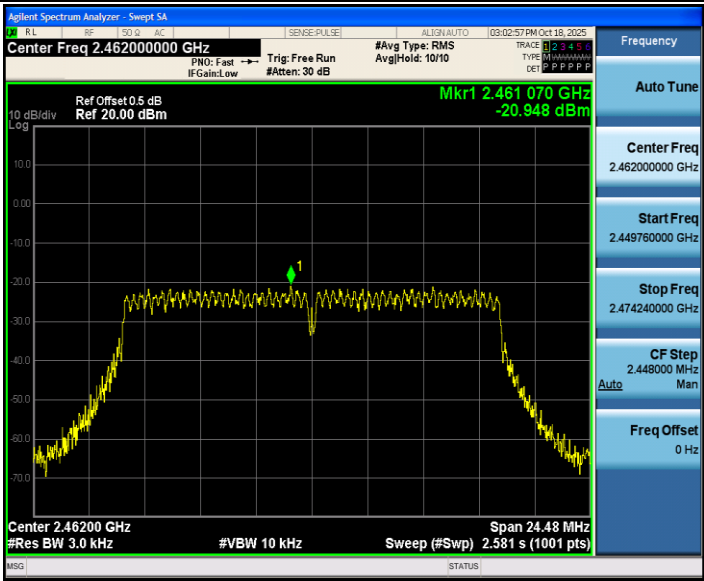
11G_Ant1_2412



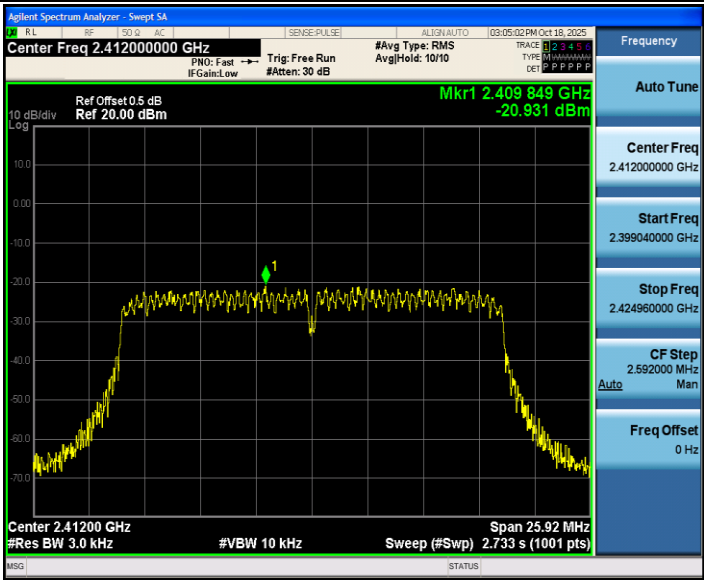
11G_Ant1_2437



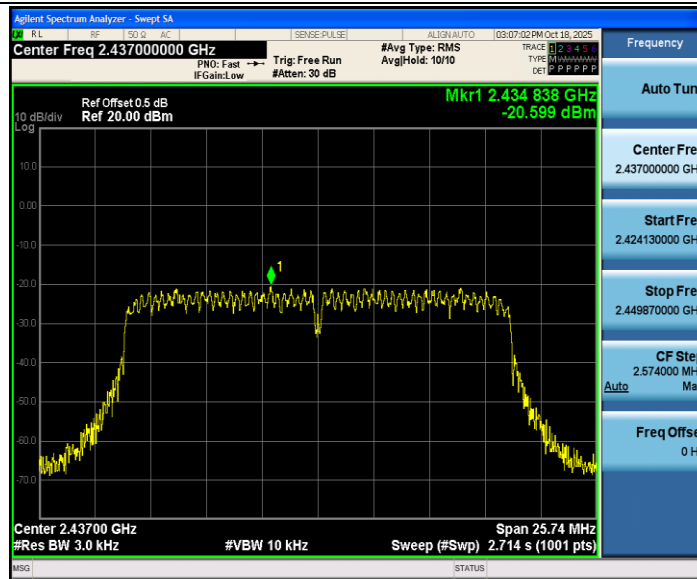
11G_Ant1_2462



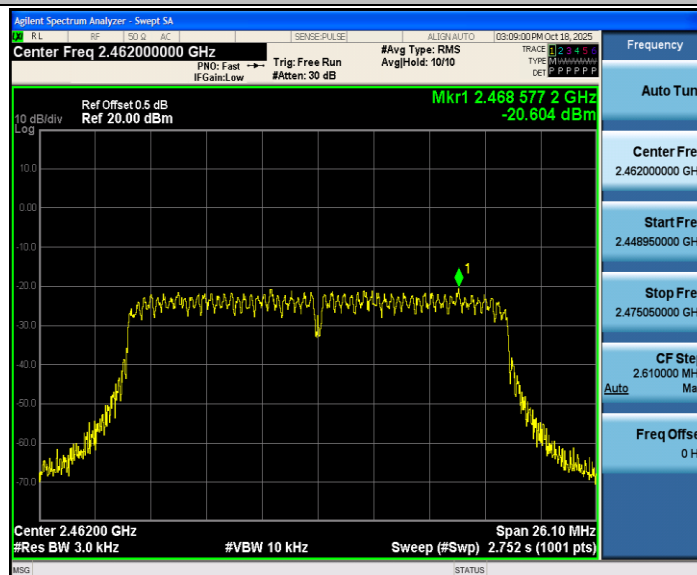
11N20SISO_Ant1_2412



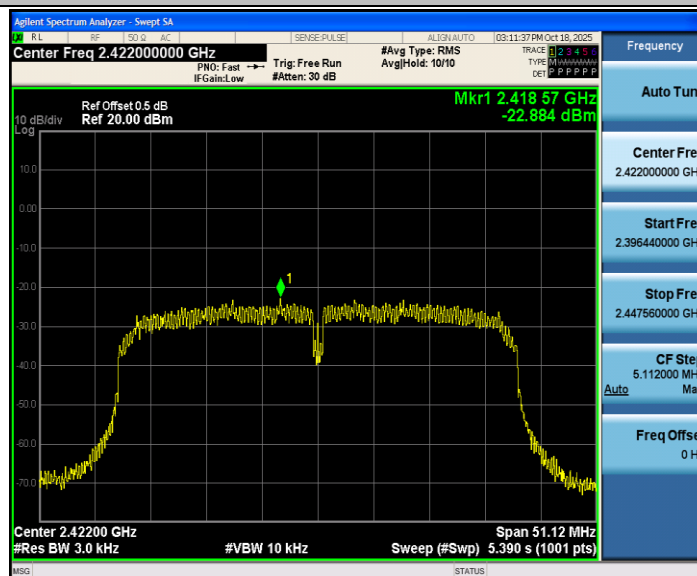
11N20SISO_Ant1_2437



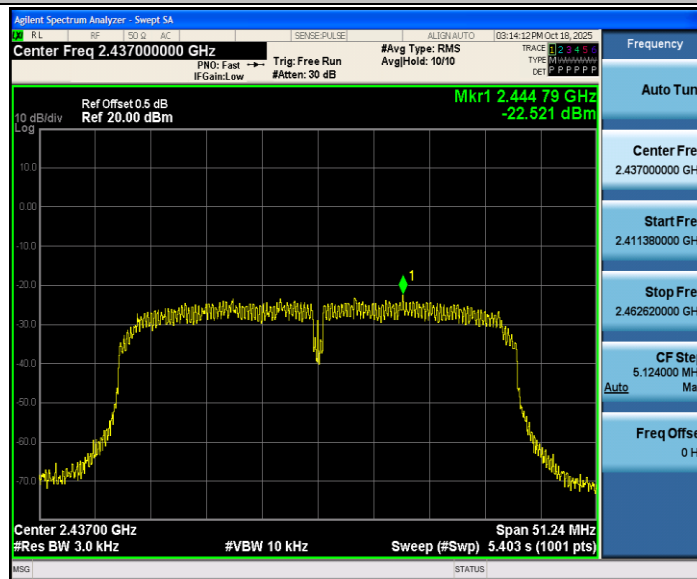
11N20SISO_Ant1_2462



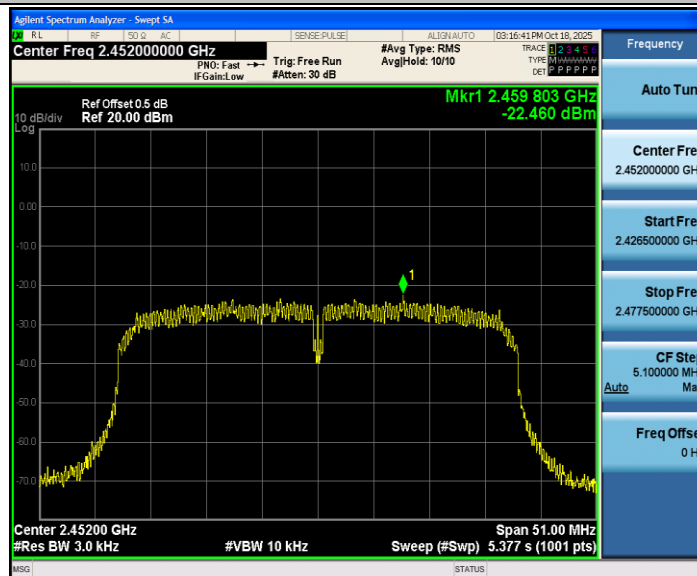
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



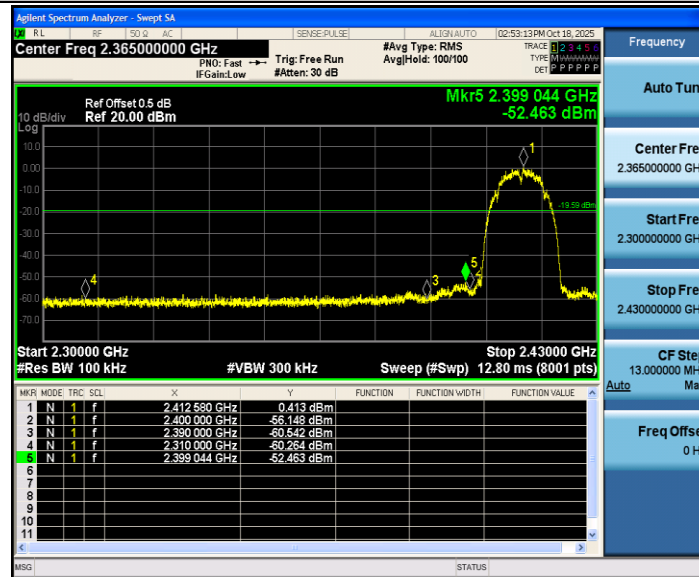
Appendix E: Band edge measurements

Test Result

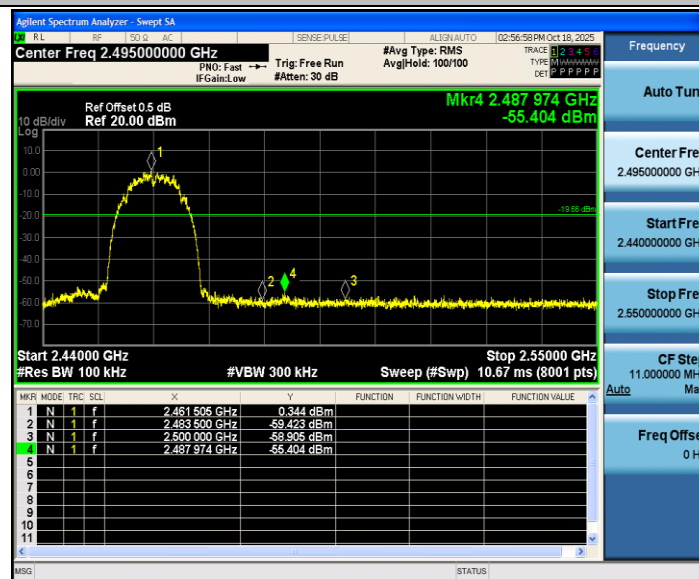
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.41	-52.46	≤-19.59	PASS
		High	2462	0.34	-55.4	≤-19.66	PASS
11G	Ant1	Low	2412	-7.04	-39.71	≤-27.04	PASS
		High	2462	-6.87	-48.49	≤-26.87	PASS
11N20SISO	Ant1	Low	2412	-7.43	-43.58	≤-27.43	PASS
		High	2462	-7.10	-54.42	≤-27.1	PASS
11N40SISO	Ant1	Low	2422	-10.16	-51.37	≤-30.16	PASS
		High	2452	-10.52	-52.2	≤-30.52	PASS

Test Graphs

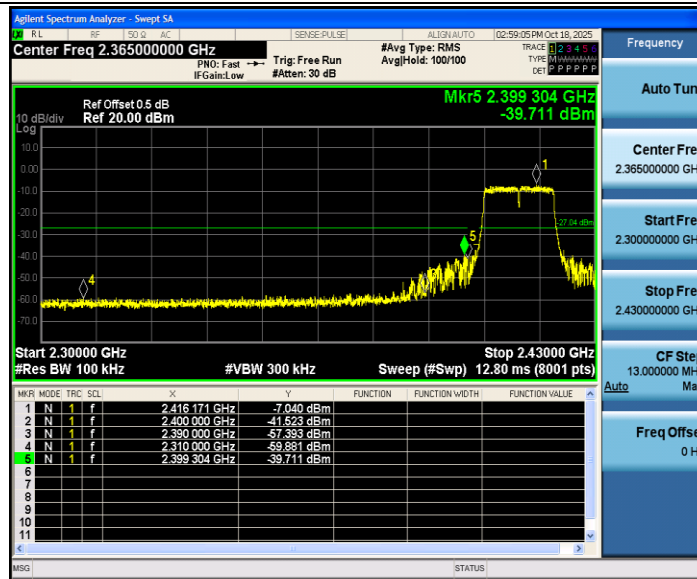
11B_Ant1_Low_2412



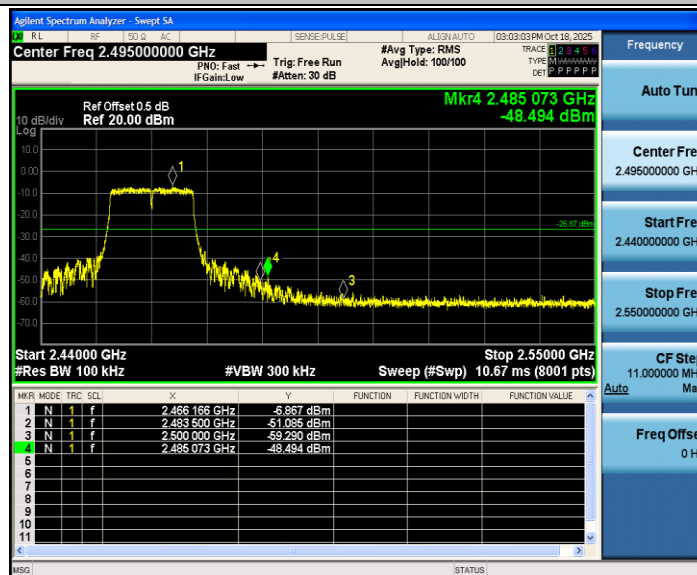
11B_Ant1_High_2462



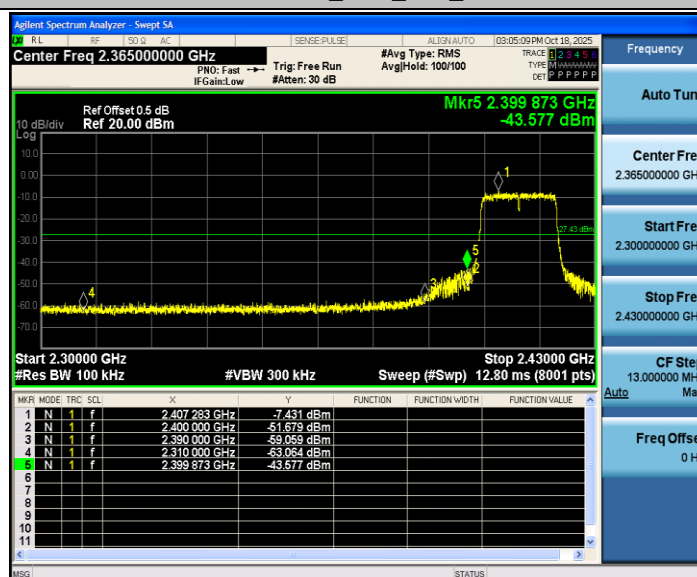
11G_Ant1_Low_2412



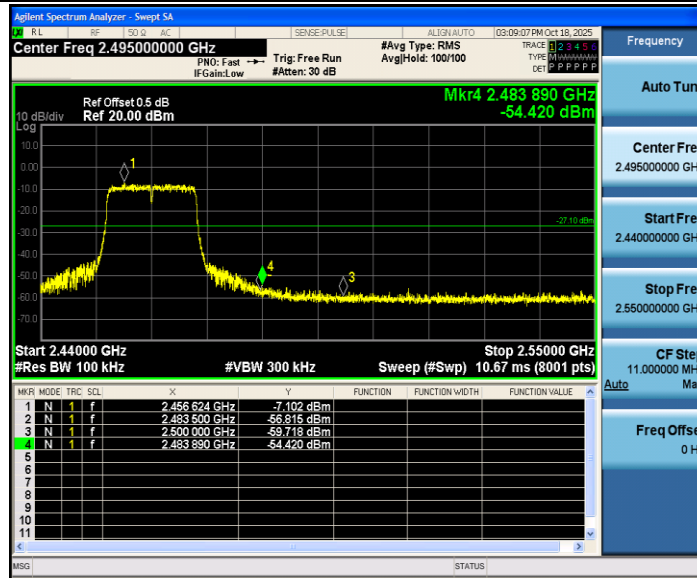
11G_Ant1_High_2462



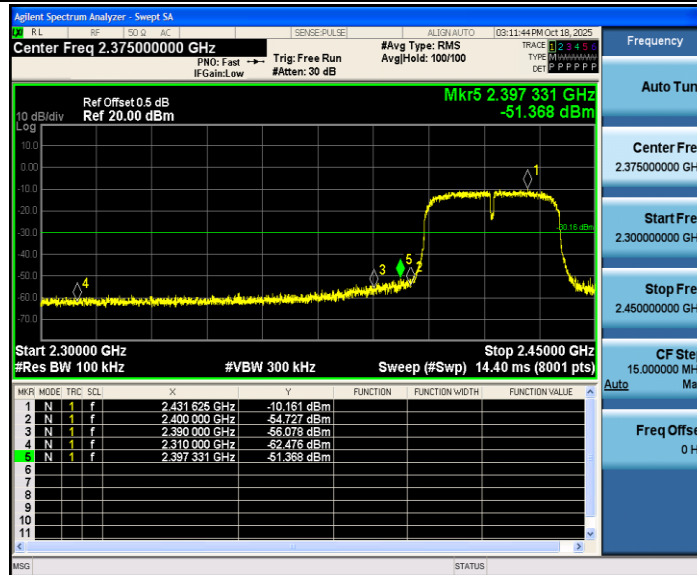
11N20SISO_Ant1_Low_2412



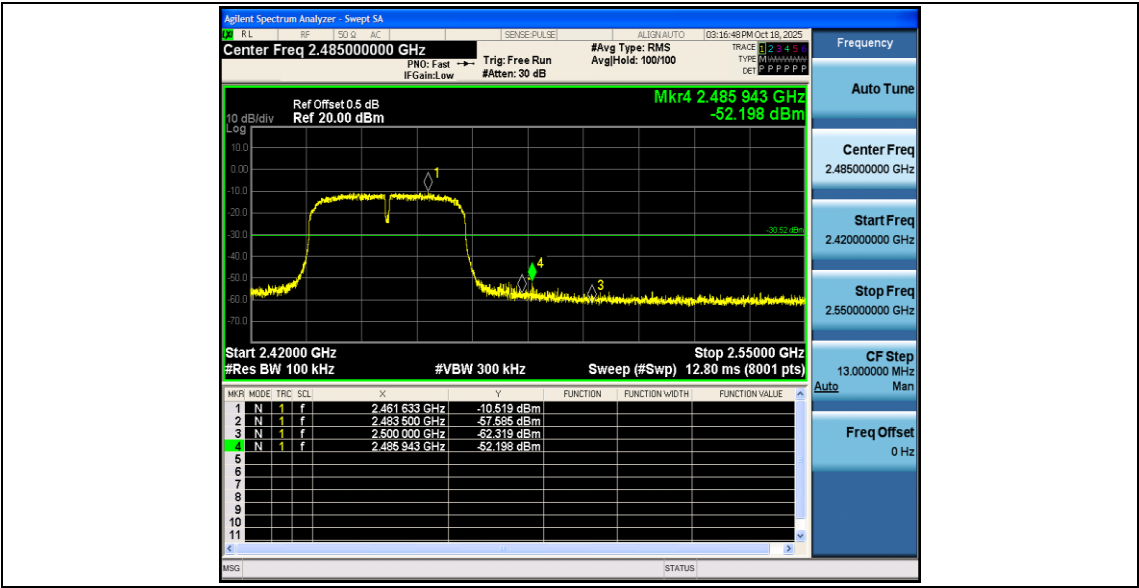
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



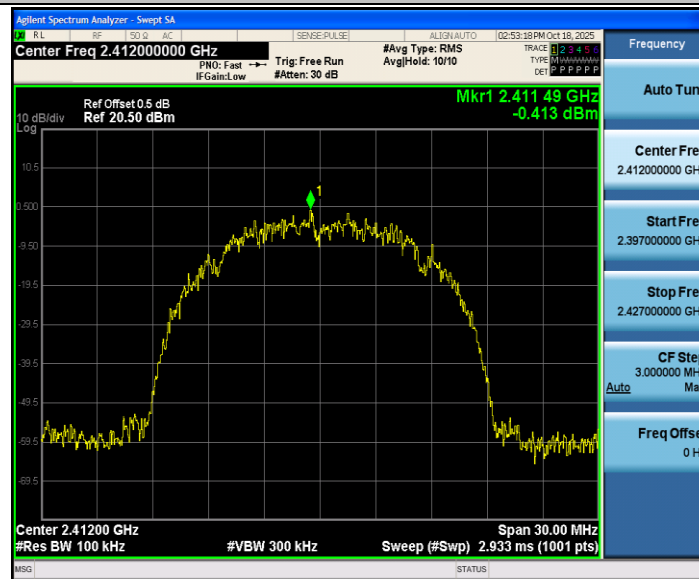
Appendix F: Conducted Spurious Emission

Test Result

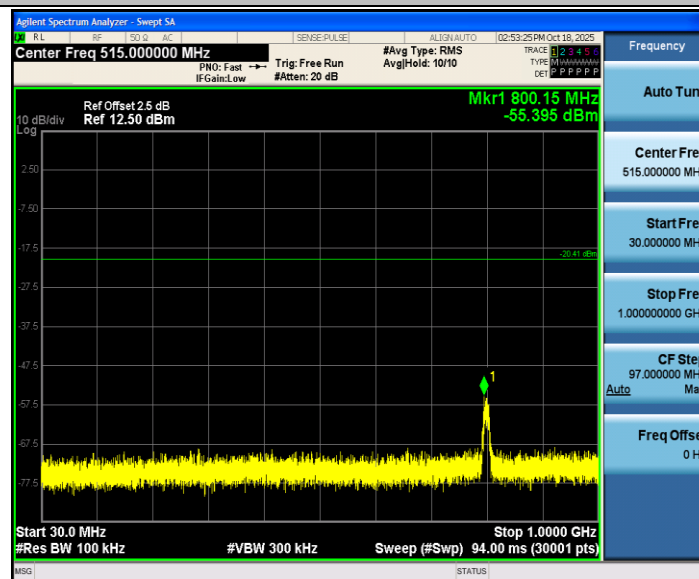
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-55.4	≤-20.41	PASS
			1000~26500	-0.41	-44.06	≤-20.41	PASS
		2437	Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-54.27	≤-21.12	PASS
			1000~26500	-1.12	-44.46	≤-21.12	PASS
		2462	Reference	-0.86	-0.86	---	PASS
			30~1000	-0.86	-54.3	≤-20.86	PASS
			1000~26500	-0.86	-44.61	≤-20.86	PASS
11G	Ant1	2412	Reference	-7.58	-7.58	---	PASS
			30~1000	-7.58	-59.5	≤-27.58	PASS
			1000~26500	-7.58	-43.78	≤-27.58	PASS
		2437	Reference	-7.59	-7.59	---	PASS
			30~1000	-7.59	-59.25	≤-27.59	PASS
			1000~26500	-7.59	-44.33	≤-27.59	PASS
		2462	Reference	-7.45	-7.45	---	PASS
			30~1000	-7.45	-59.04	≤-27.45	PASS
			1000~26500	-7.45	-44.32	≤-27.45	PASS
11N20SISO	Ant1	2412	Reference	-8.06	-8.06	---	PASS
			30~1000	-8.06	-60.01	≤-28.06	PASS
			1000~26500	-8.06	-43.64	≤-28.06	PASS
		2437	Reference	-7.89	-7.89	---	PASS
			30~1000	-7.89	-59.99	≤-27.89	PASS
			1000~26500	-7.89	-44.3	≤-27.89	PASS
		2462	Reference	-8.02	-8.02	---	PASS
			30~1000	-8.02	-60	≤-28.02	PASS
			1000~26500	-8.02	-44.44	≤-28.02	PASS
11N40SISO	Ant1	2422	Reference	-10.80	-10.80	---	PASS
			30~1000	-10.80	-61.23	≤-30.8	PASS
			1000~26500	-10.80	-43.9	≤-30.8	PASS
		2437	Reference	-10.76	-10.76	---	PASS
			30~1000	-10.76	-61.77	≤-30.76	PASS
			1000~26500	-10.76	-44.27	≤-30.76	PASS
		2452	Reference	-10.59	-10.59	---	PASS
			30~1000	-10.59	-61.87	≤-30.59	PASS
			1000~26500	-10.59	-44.22	≤-30.59	PASS

Test Graphs

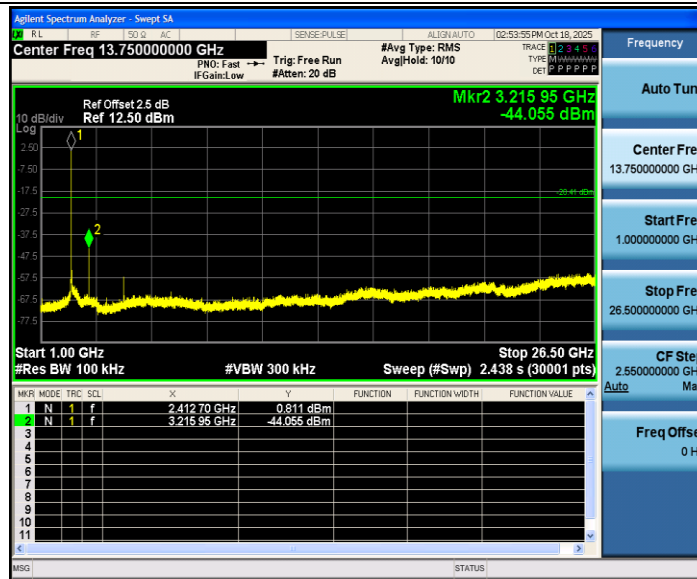
11B_Ant1_2412_0~Reference



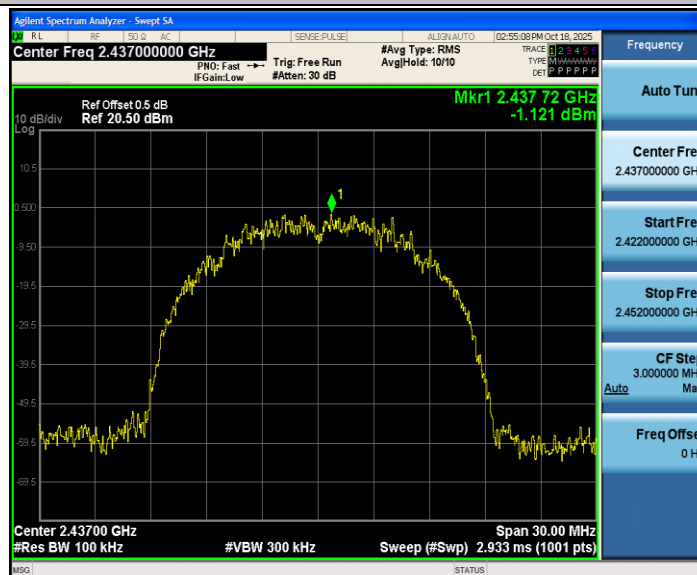
11B_Ant1_2412_30~1000



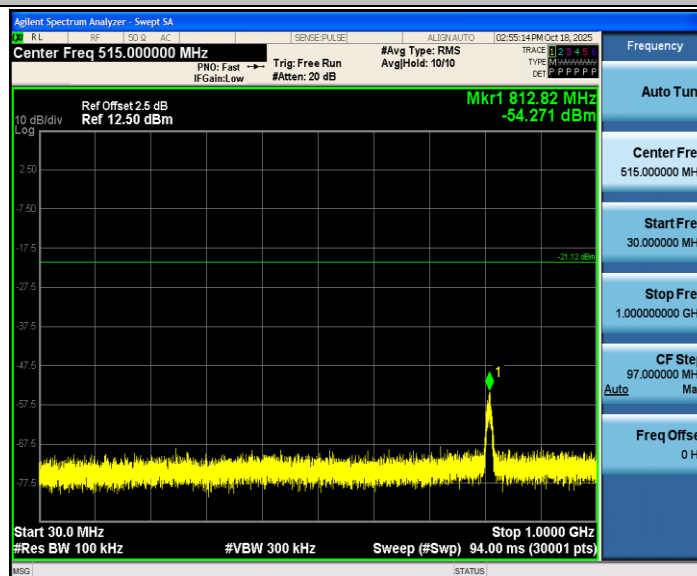
11B_Ant1_2412_1000~26500



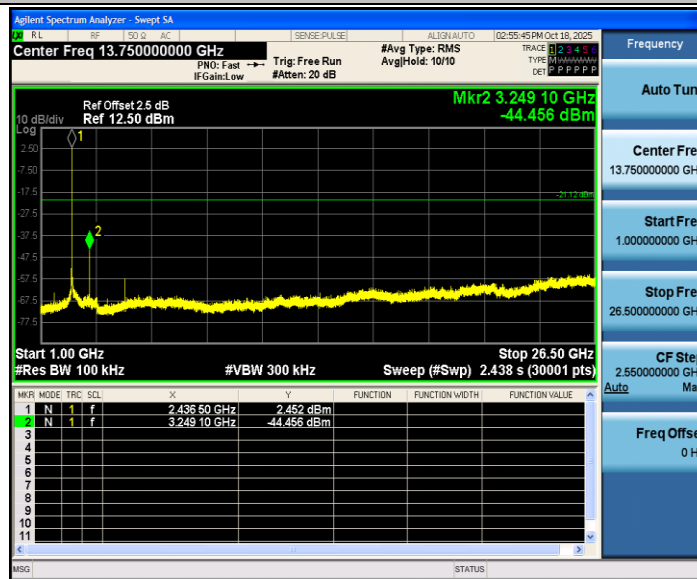
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



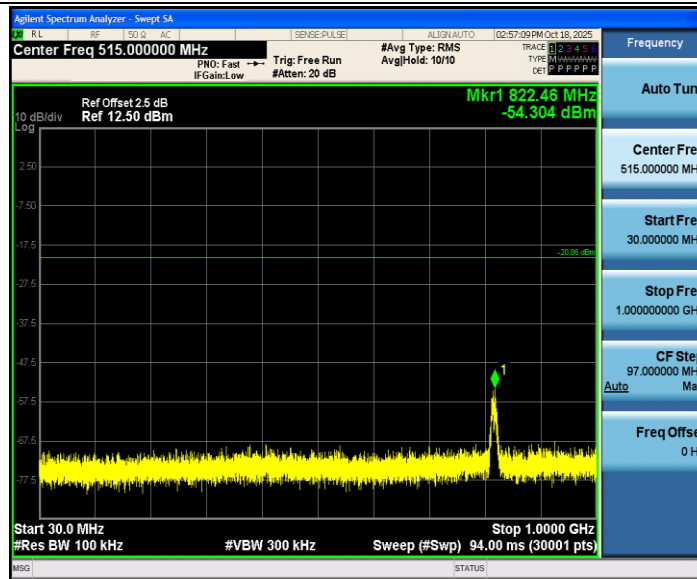
11B_Ant1_2437_1000~26500



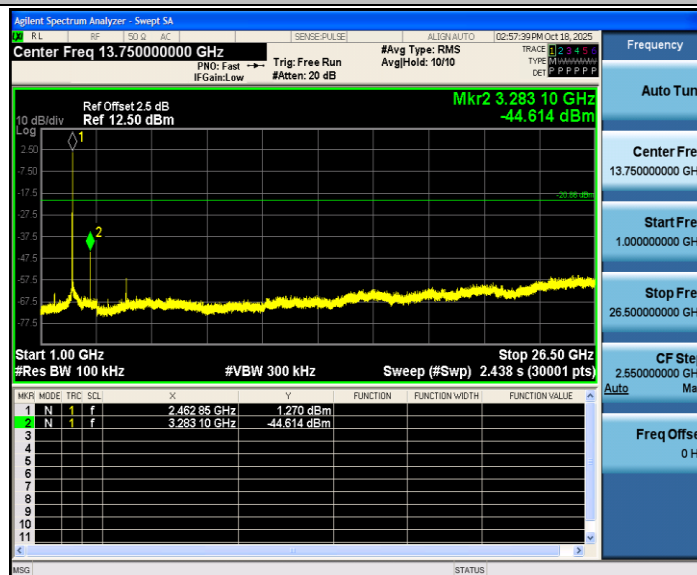
11B_Ant1_2462_0~Reference



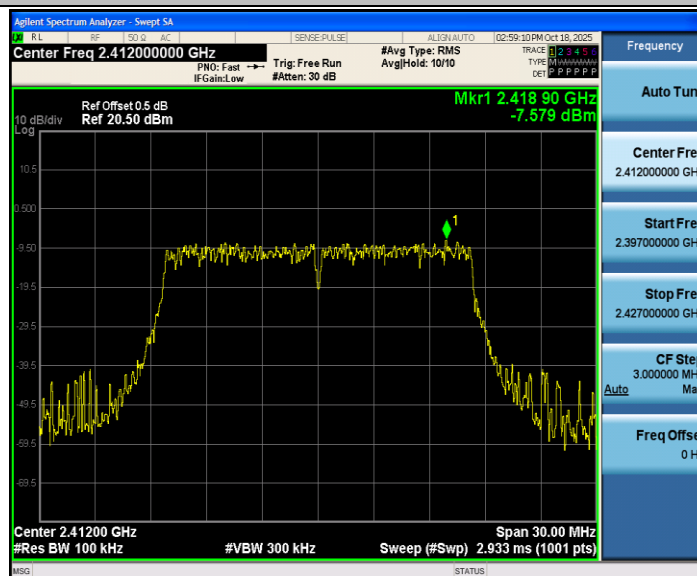
11B_Ant1_2462_30~1000



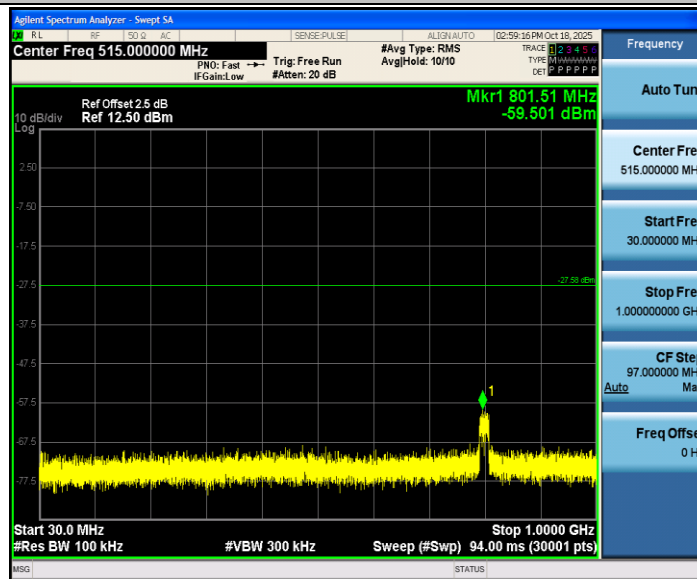
11B_Ant1_2462_1000~26500



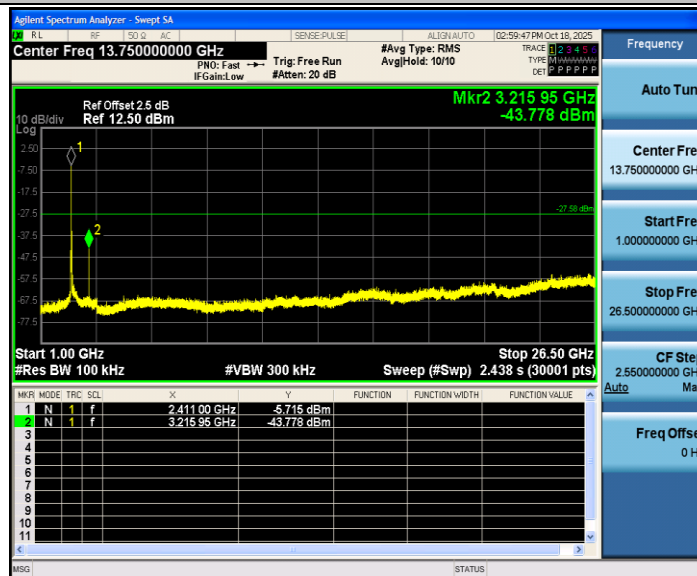
11G_Ant1_2412_0~Reference



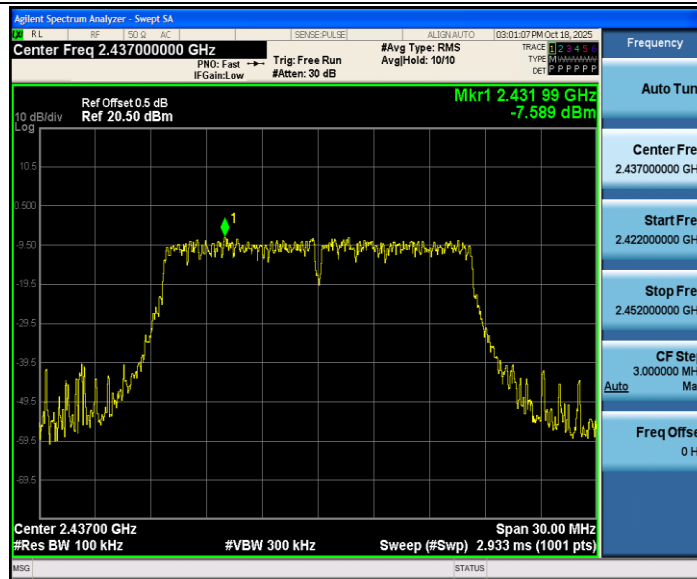
11G_Ant1_2412_30~1000



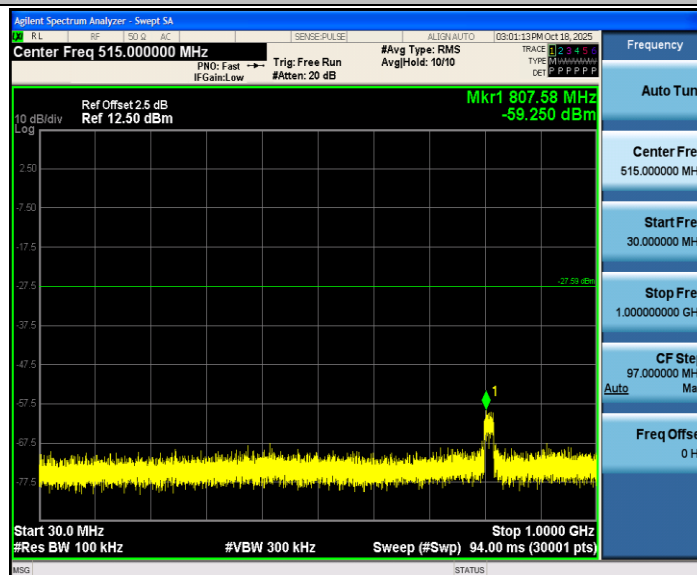
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

