

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BWJV-LX10S

Company : Lexion Electronics Co., Ltd.

EUT : Car navigation Player(CarPlay Linux Monitor)

Model Number : LX10S

Report No. : CTA26040100101

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	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.400	2404.320	2419.720	0.5	PASS
		2437	15.880	2429.120	2445.000	0.5	PASS
		2462	15.680	2454.080	2469.760	0.5	PASS
11N20SISO	Ant1	2412	16.960	2403.440	2420.400	0.5	PASS
		2437	16.040	2429.120	2445.160	0.5	PASS
		2462	16.720	2453.480	2470.200	0.5	PASS
11N40SISO	Ant1	2422	35.840	2404.240	2440.080	0.5	PASS
		2437	35.200	2419.640	2454.840	0.5	PASS
		2452	35.440	2434.480	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



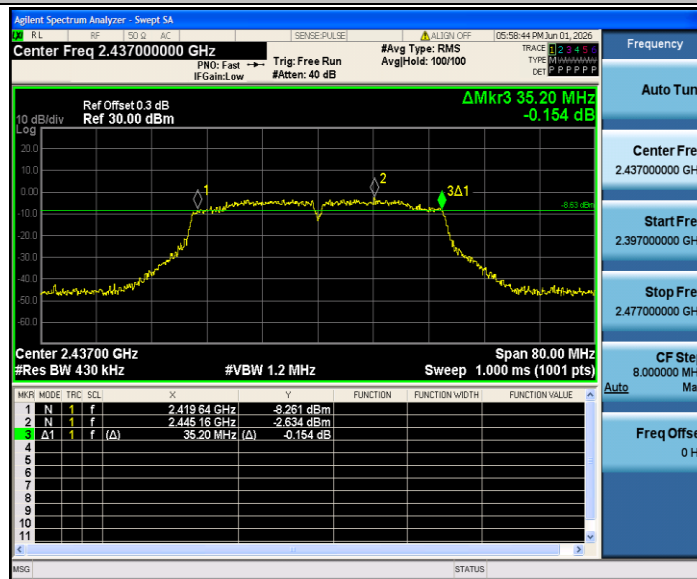
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



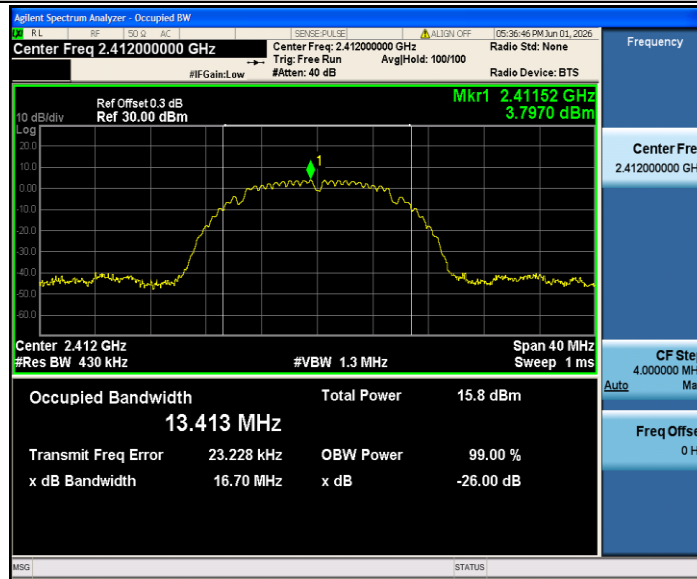
Appendix B: Occupied Channel Bandwidth

Test Result

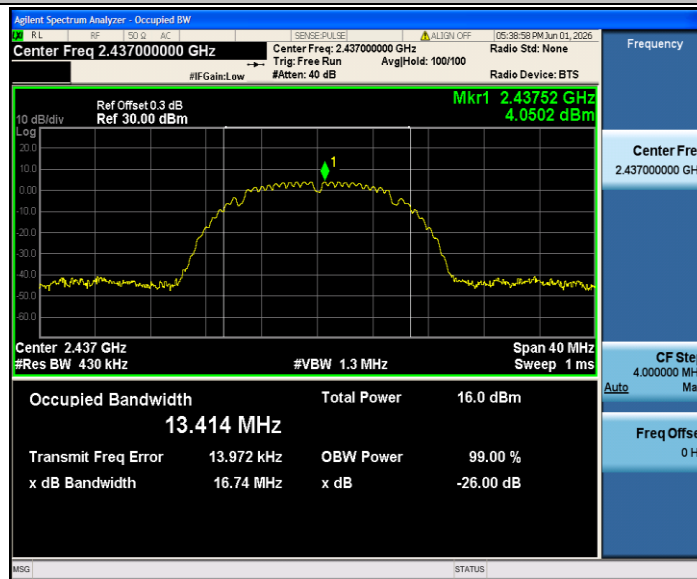
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.413	2405.3167	2418.7297	---	---
		2437	13.414	2430.3070	2443.7210	---	---
		2462	13.432	2455.2938	2468.7258	---	---
11G	Ant1	2412	16.919	2403.5872	2420.5062	---	---
		2437	16.842	2428.6274	2445.4694	---	---
		2462	16.860	2453.5897	2470.4497	---	---
11N20SISO	Ant1	2412	17.903	2403.0578	2420.9608	---	---
		2437	17.843	2428.1018	2445.9448	---	---
		2462	17.917	2453.0431	2470.9601	---	---
11N40SISO	Ant1	2422	36.063	2404.0663	2440.1293	---	---
		2437	36.068	2419.0864	2455.1544	---	---
		2452	36.007	2434.0848	2470.0918	---	---

Test Graphs

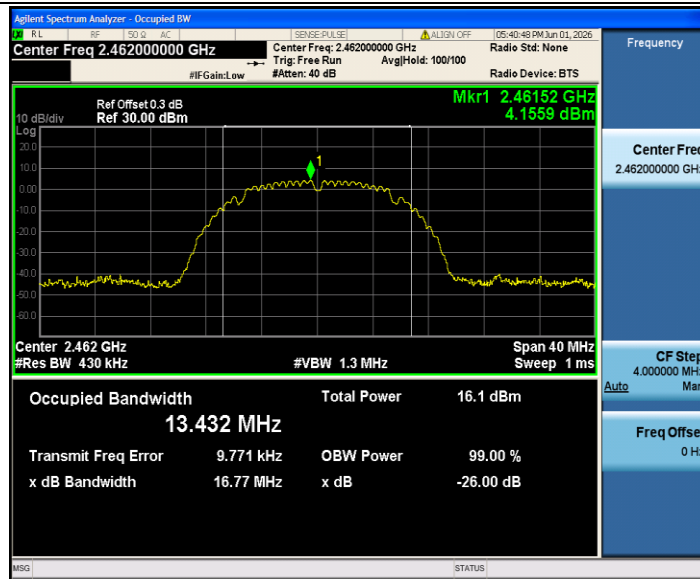
11B_Ant1_2412



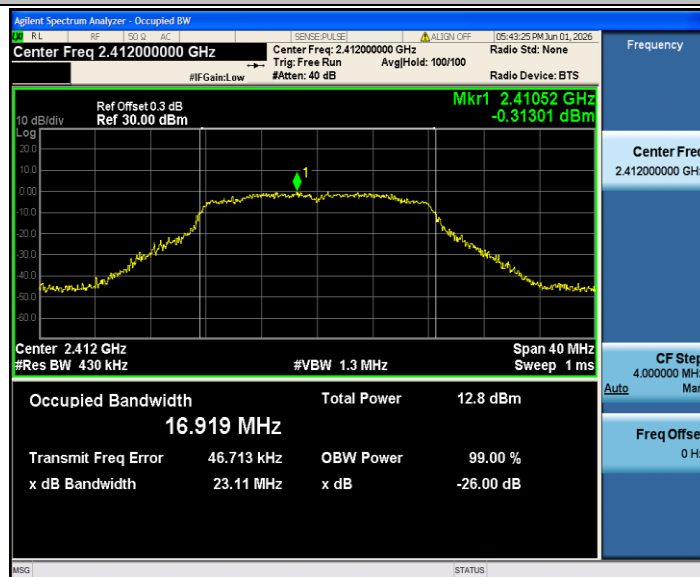
11B_Ant1_2437



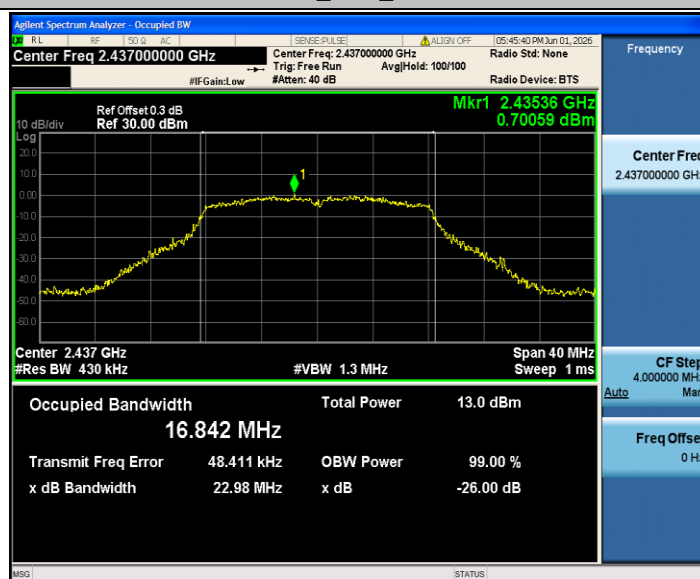
11B_Ant1_2462



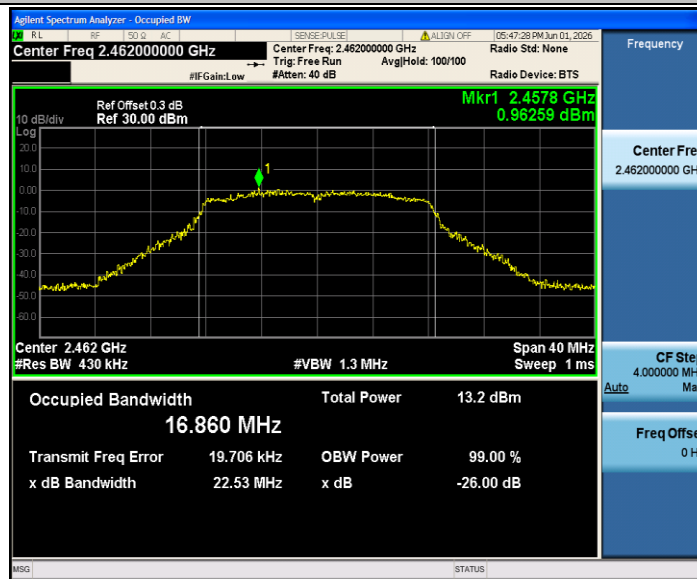
11G_Ant1_2412



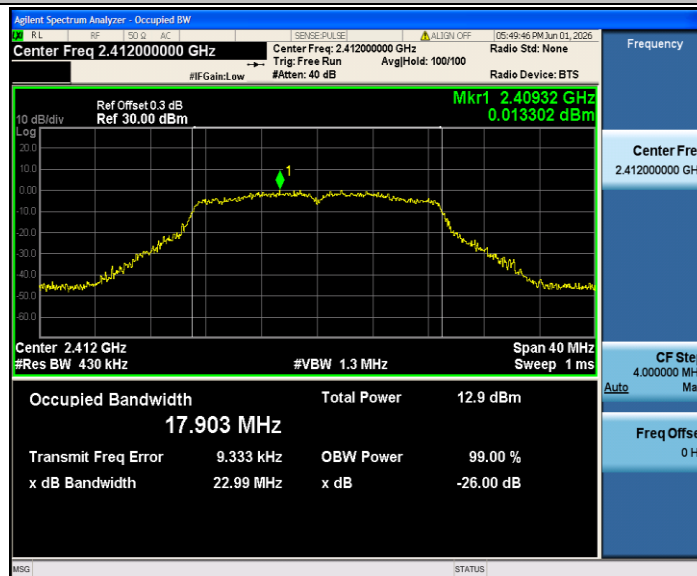
11G_Ant1_2437



11G_Ant1_2462



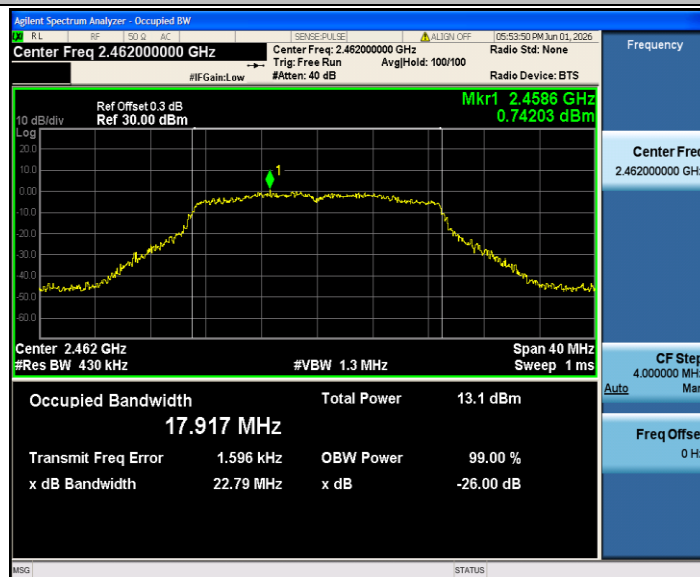
11N20SISO_Ant1_2412



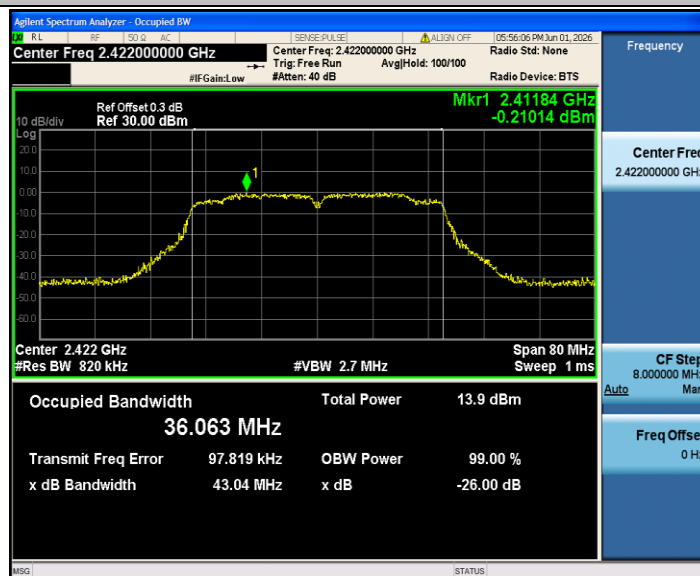
11N20SISO_Ant1_2437



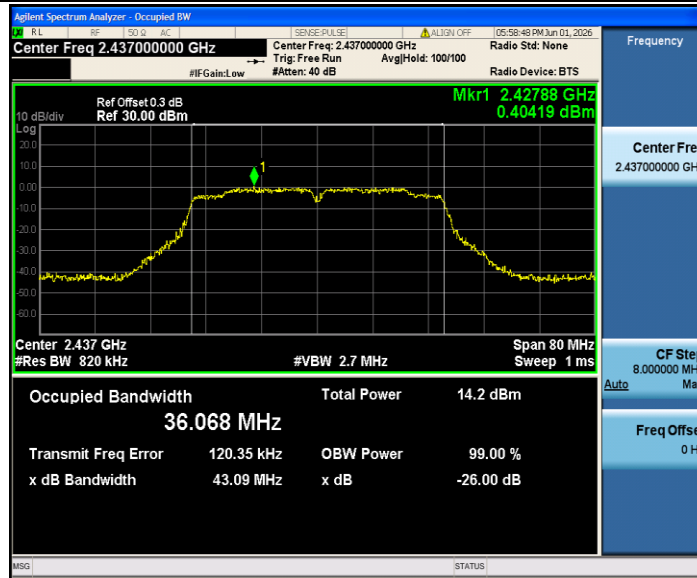
11N20SISO_Ant1_2462



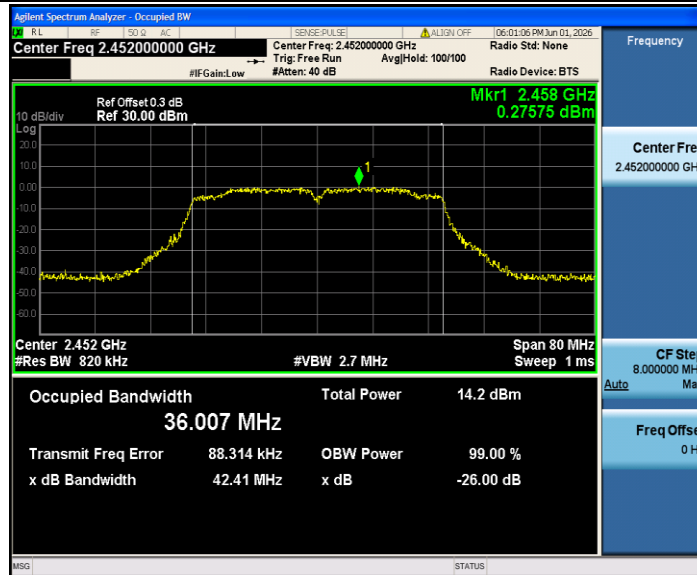
11N40SISO_Ant1_2422



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	15.45	≤30.00	PASS
		2437	15.70	≤30.00	PASS
		2462	15.81	≤30.00	PASS
11G	Ant1	2412	13.79	≤30.00	PASS
		2437	14.03	≤30.00	PASS
		2462	14.14	≤30.00	PASS
11N20SISO	Ant1	2412	13.76	≤30.00	PASS
		2437	13.82	≤30.00	PASS
		2462	13.98	≤30.00	PASS
11N40SISO	Ant1	2422	14.02	≤30.00	PASS
		2437	14.40	≤30.00	PASS
		2452	14.26	≤30.00	PASS

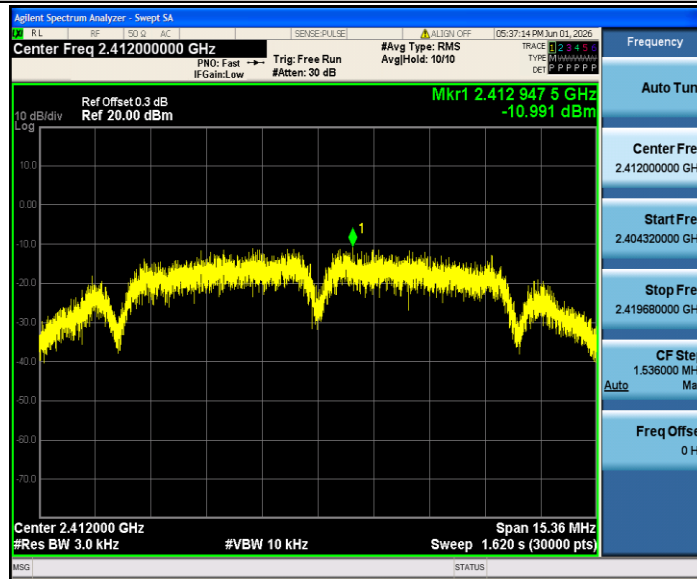
Appendix D: Maximum power spectral density

Test Result

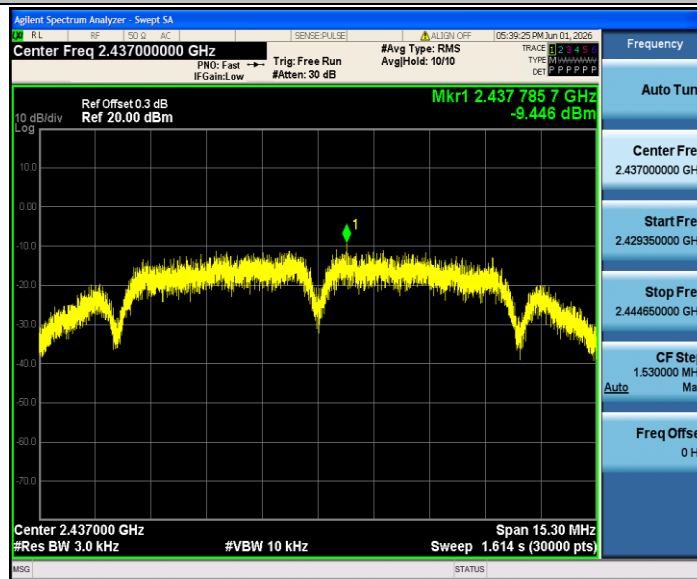
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.99	≤8.00	PASS
		2437	-9.45	≤8.00	PASS
		2462	-10.12	≤8.00	PASS
11G	Ant1	2412	-17.62	≤8.00	PASS
		2437	-17.32	≤8.00	PASS
		2462	-17.10	≤8.00	PASS
11N20SISO	Ant1	2412	-16.49	≤8.00	PASS
		2437	-17.62	≤8.00	PASS
		2462	-17.87	≤8.00	PASS
11N40SISO	Ant1	2422	-20.41	≤8.00	PASS
		2437	-20.65	≤8.00	PASS
		2452	-20.45	≤8.00	PASS

Test Graphs

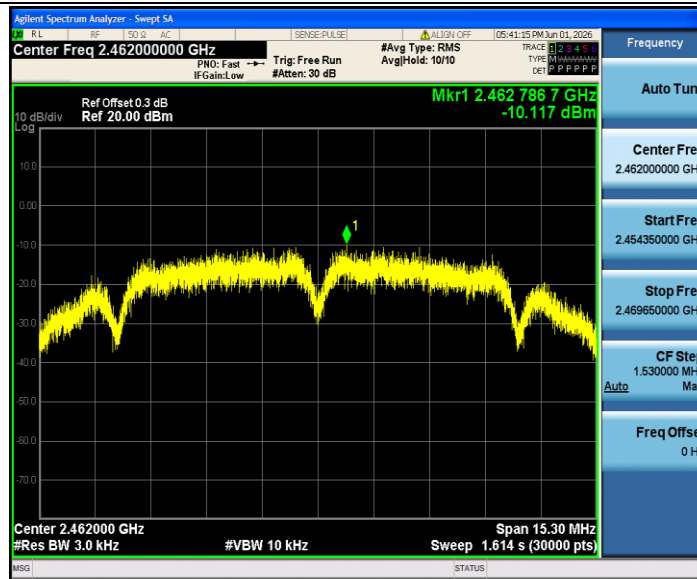
11B_Ant1_2412



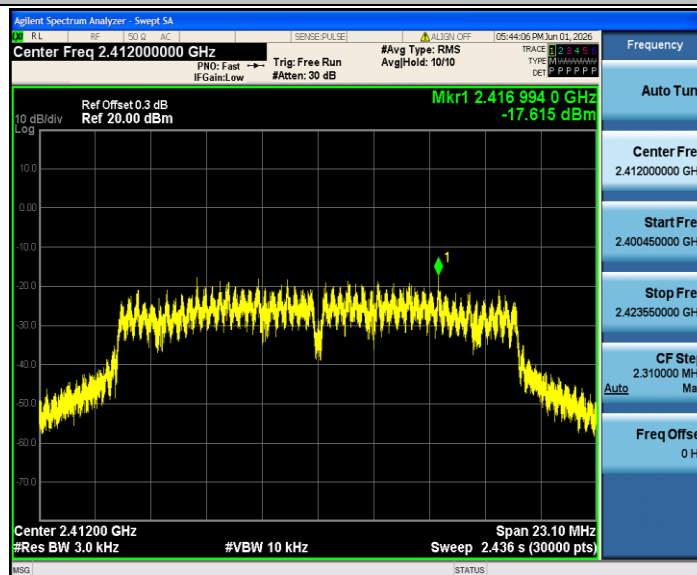
11B_Ant1_2437



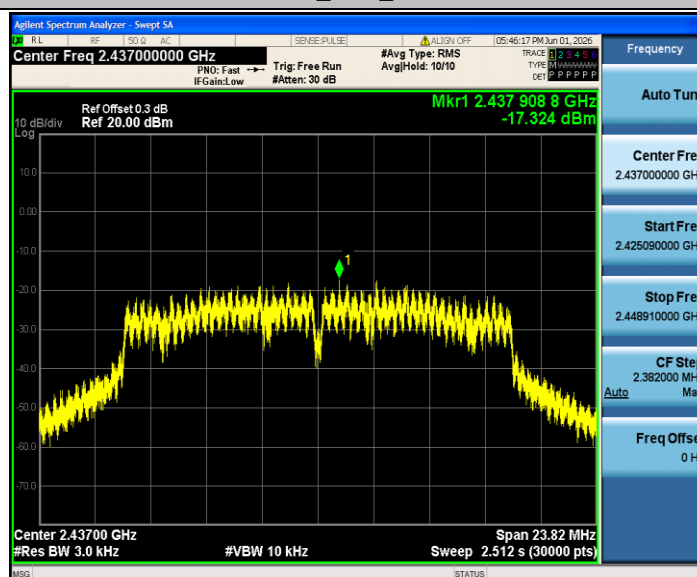
11B_Ant1_2462



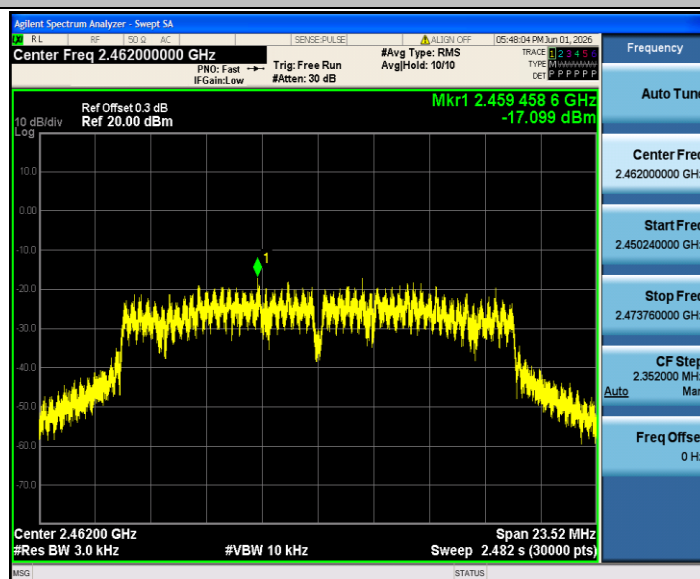
11G_Ant1_2412



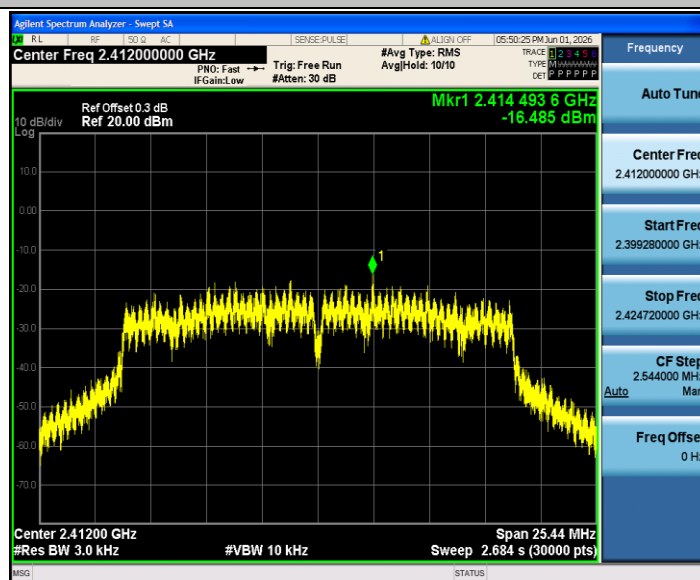
11G_Ant1_2437



11G_Ant1_2462



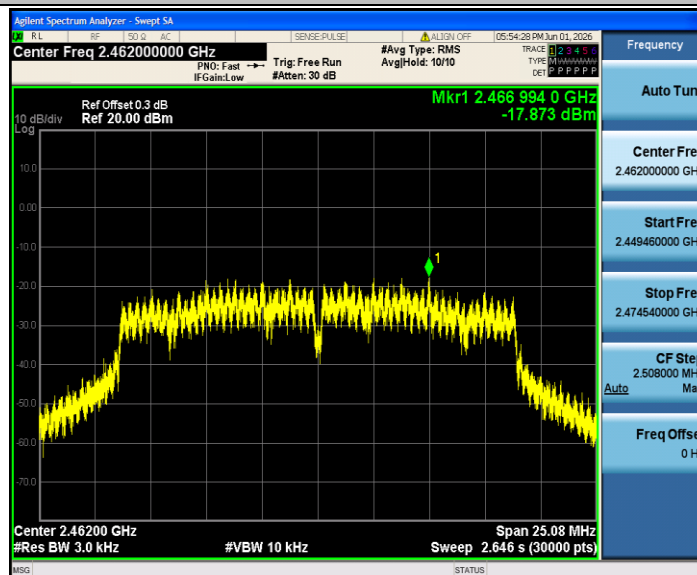
11N20SISO_Ant1_2412



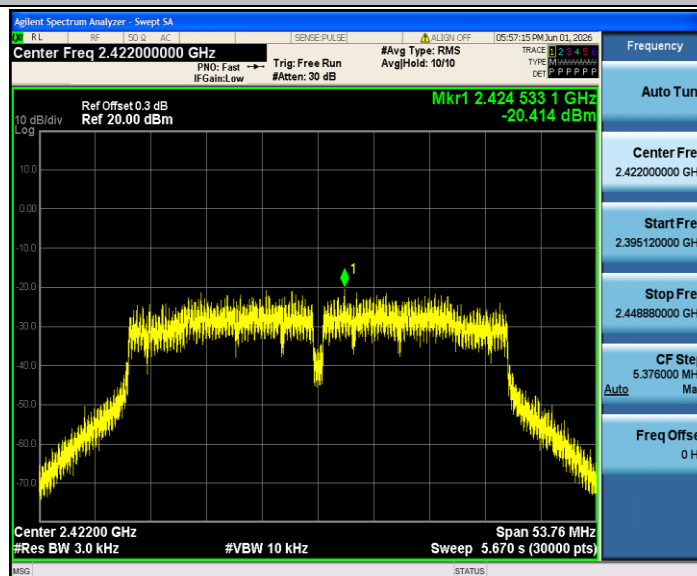
11N20SISO_Ant1_2437



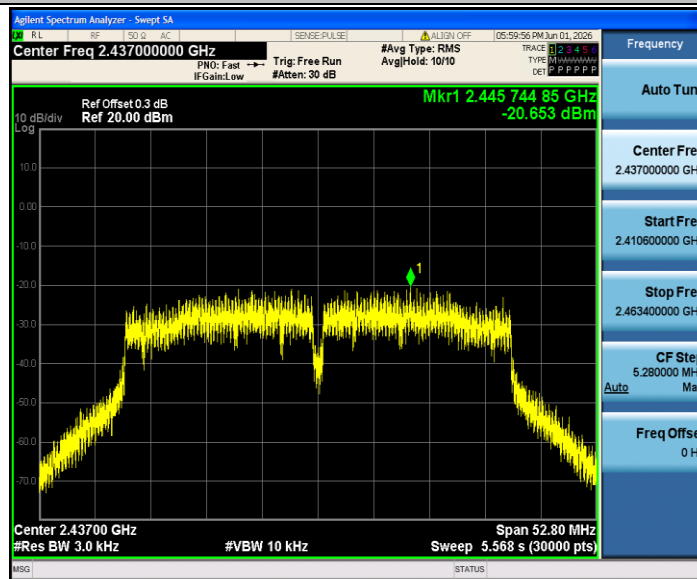
11N20SISO_Ant1_2462



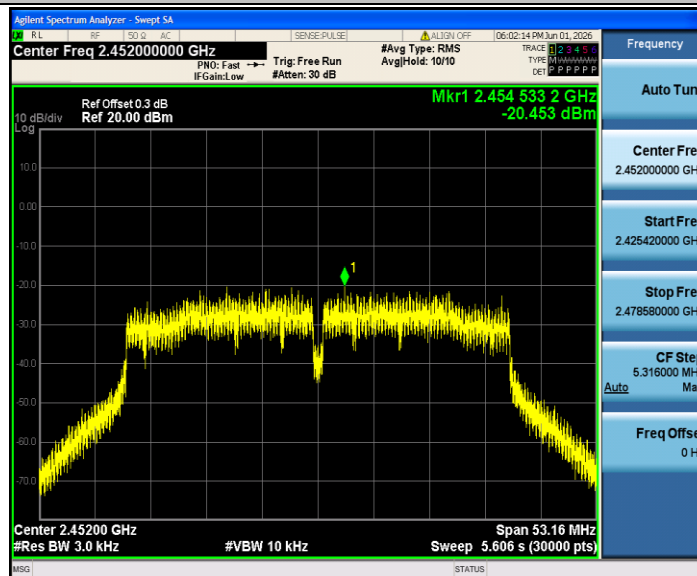
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



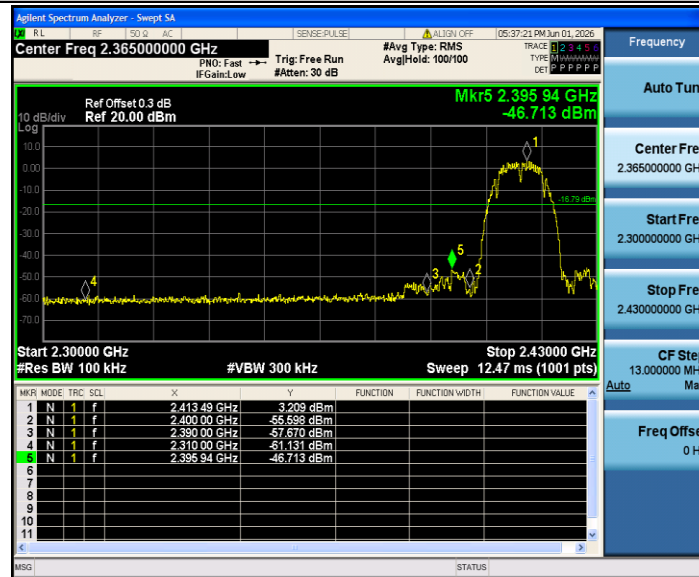
Appendix E: Band edge measurements

Test Result

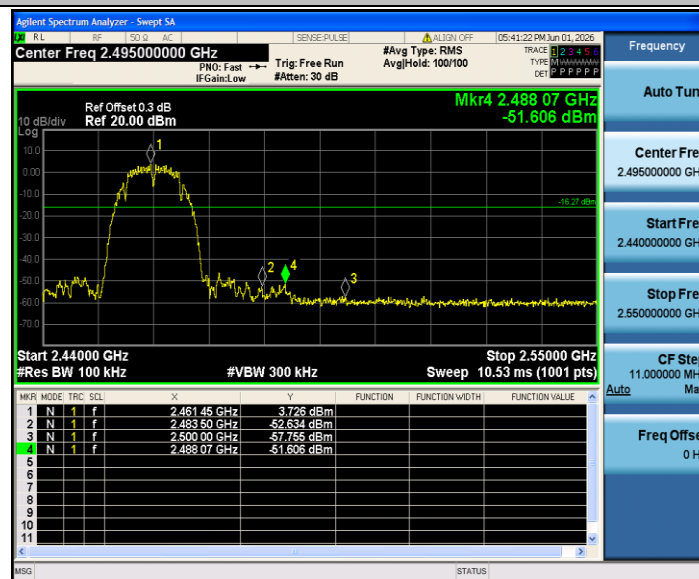
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.21	-46.71	≤-16.79	PASS
		High	2462	3.73	-51.61	≤-16.27	PASS
11G	Ant1	Low	2412	-3.00	-35.35	≤-23	PASS
		High	2462	-2.32	-57.96	≤-22.32	PASS
11N20SISO	Ant1	Low	2412	-2.74	-33.6	≤-22.74	PASS
		High	2462	-2.37	-57.12	≤-22.37	PASS
11N40SISO	Ant1	Low	2422	-5.96	-33.57	≤-25.96	PASS
		High	2452	-5.66	-57.42	≤-25.66	PASS

Test Graphs

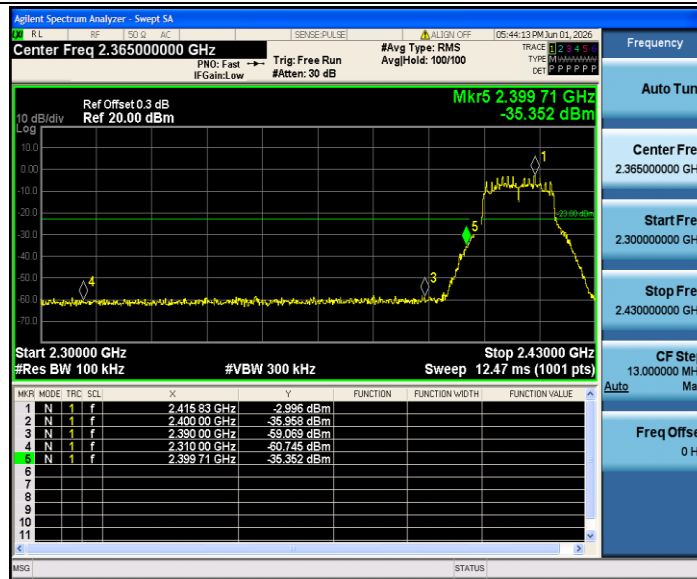
11B_Ant1_Low_2412



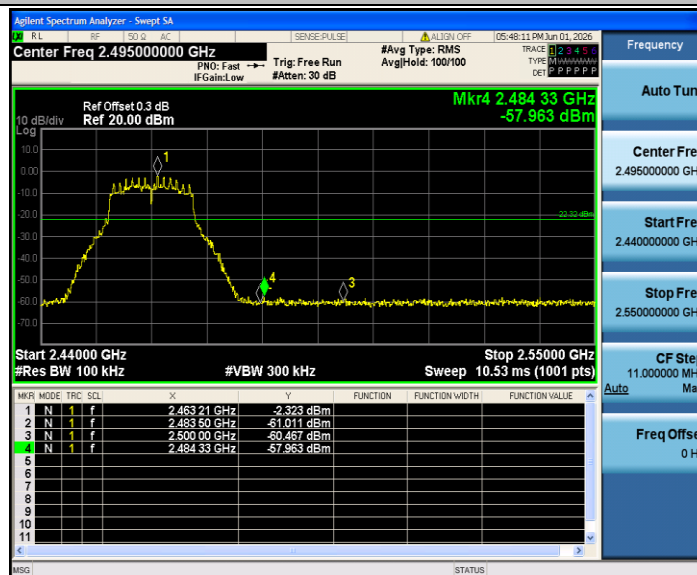
11B_Ant1_High_2462



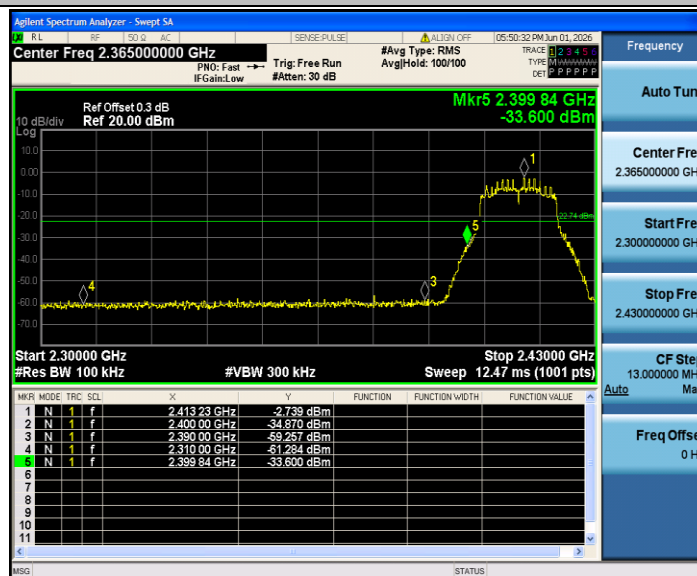
11G_Ant1_Low_2412



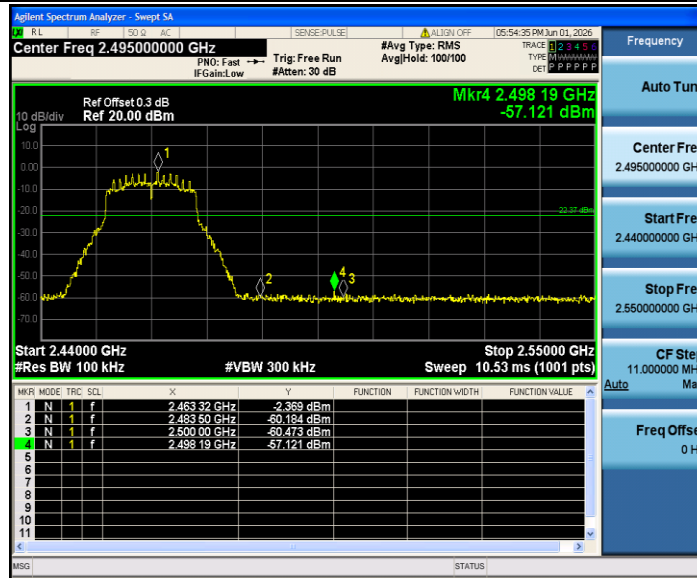
11G_Ant1_High_2462



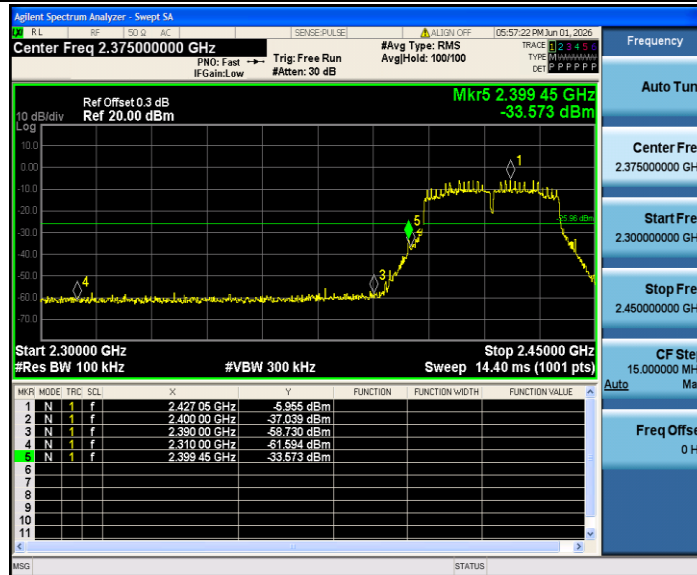
11N20SISO_Ant1_Low_2412



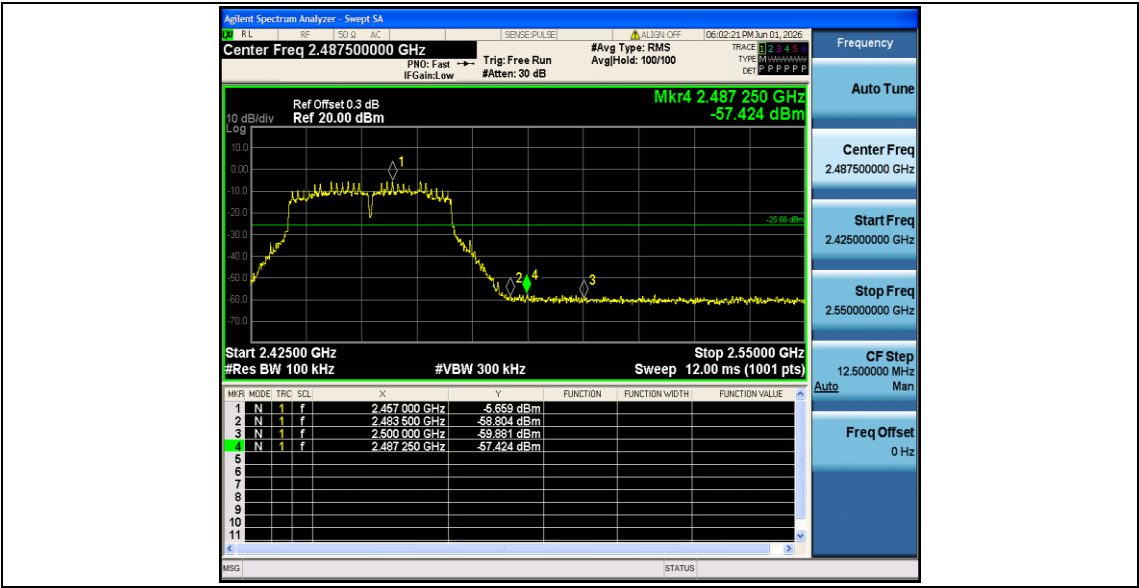
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

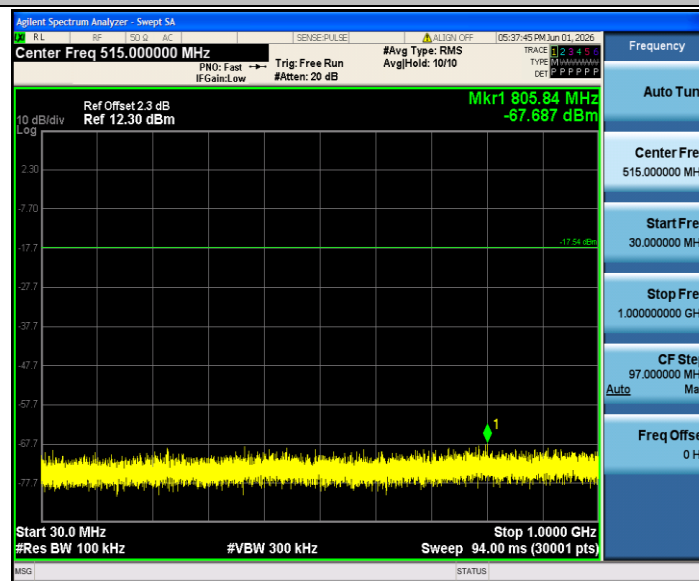
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.46	2.46	---	PASS
			30~1000	2.46	-67.69	≤-17.54	PASS
			1000~26500	2.46	-53.14	≤-17.54	PASS
		2437	Reference	3.30	3.30	---	PASS
			30~1000	3.30	-68.62	≤-16.7	PASS
			1000~26500	3.30	-53.6	≤-16.7	PASS
		2462	Reference	3.60	3.60	---	PASS
			30~1000	3.60	-67.26	≤-16.4	PASS
			1000~26500	3.60	-52.46	≤-16.4	PASS
11G	Ant1	2412	Reference	-3.49	-3.49	---	PASS
			30~1000	-3.49	-68.33	≤-23.49	PASS
			1000~26500	-3.49	-55.37	≤-23.49	PASS
		2437	Reference	-2.60	-2.60	---	PASS
			30~1000	-2.60	-67.97	≤-22.6	PASS
			1000~26500	-2.60	-55.63	≤-22.6	PASS
		2462	Reference	-2.39	-2.39	---	PASS
			30~1000	-2.39	-68.09	≤-22.39	PASS
			1000~26500	-2.39	-55.71	≤-22.39	PASS
11N20SISO	Ant1	2412	Reference	-2.62	-2.62	---	PASS
			30~1000	-2.62	-67.75	≤-22.62	PASS
			1000~26500	-2.62	-55.61	≤-22.62	PASS
		2437	Reference	-3.26	-3.26	---	PASS
			30~1000	-3.26	-67.63	≤-23.26	PASS
			1000~26500	-3.26	-55.77	≤-23.26	PASS
		2462	Reference	-2.75	-2.75	---	PASS
			30~1000	-2.75	-68.56	≤-22.75	PASS
			1000~26500	-2.75	-55.63	≤-22.75	PASS
11N40SISO	Ant1	2422	Reference	-6.17	-6.17	---	PASS
			30~1000	-6.17	-67.39	≤-26.17	PASS
			1000~26500	-6.17	-55.49	≤-26.17	PASS
		2437	Reference	-6.41	-6.41	---	PASS
			30~1000	-6.41	-67.46	≤-26.41	PASS
			1000~26500	-6.41	-55.33	≤-26.41	PASS
		2452	Reference	-5.78	-5.78	---	PASS
			30~1000	-5.78	-67.99	≤-25.78	PASS
			1000~26500	-5.78	-55.87	≤-25.78	PASS

Test Graphs

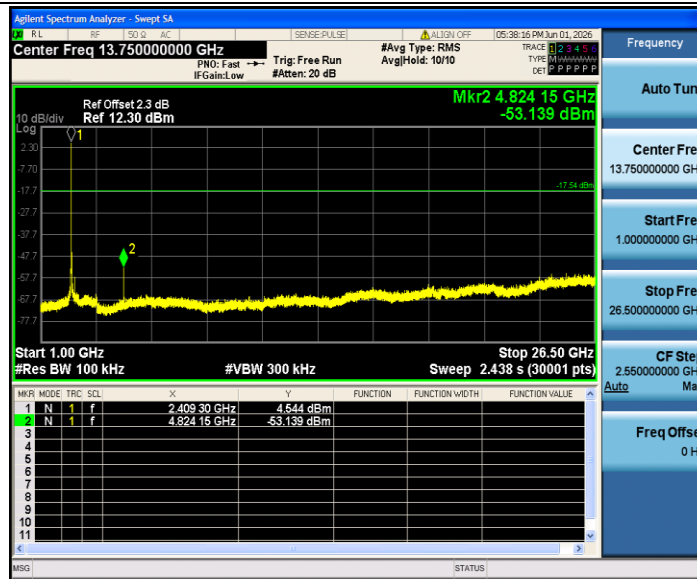
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



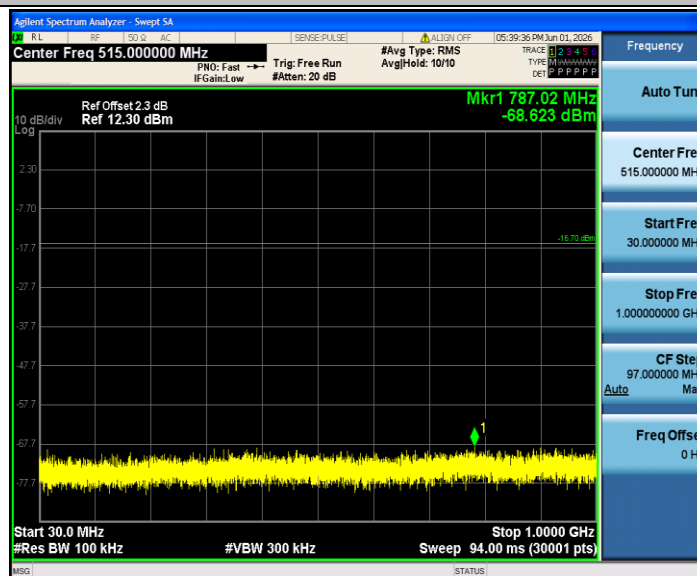
11B_Ant1_2412_1000~26500



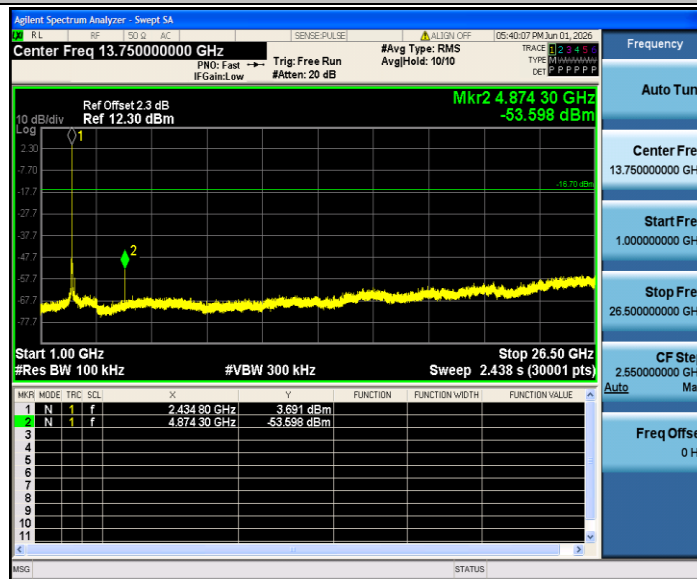
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



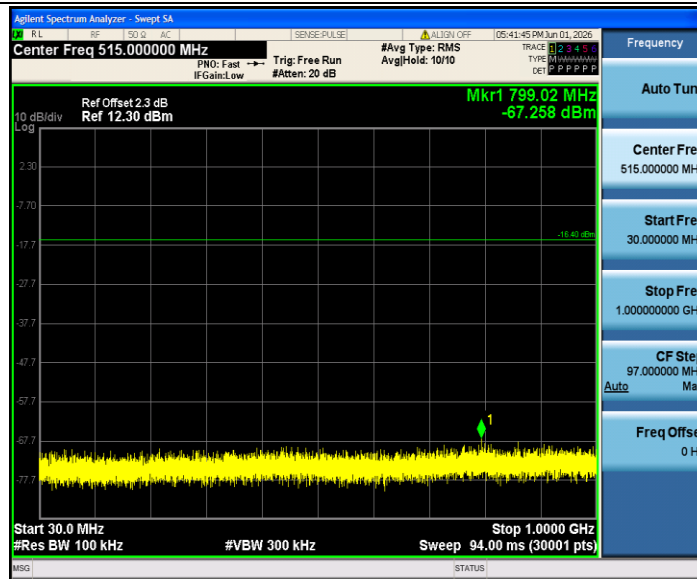
11B_Ant1_2437_1000~26500



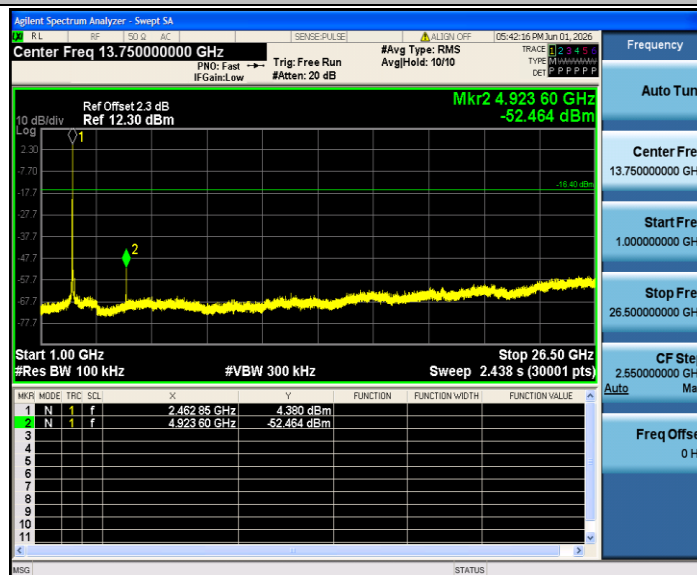
11B_Ant1_2462_0~Reference



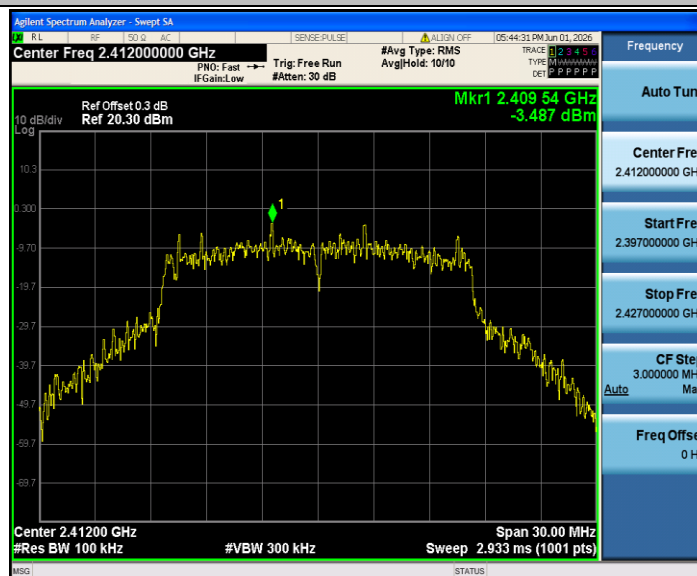
11B_Ant1_2462_30~1000



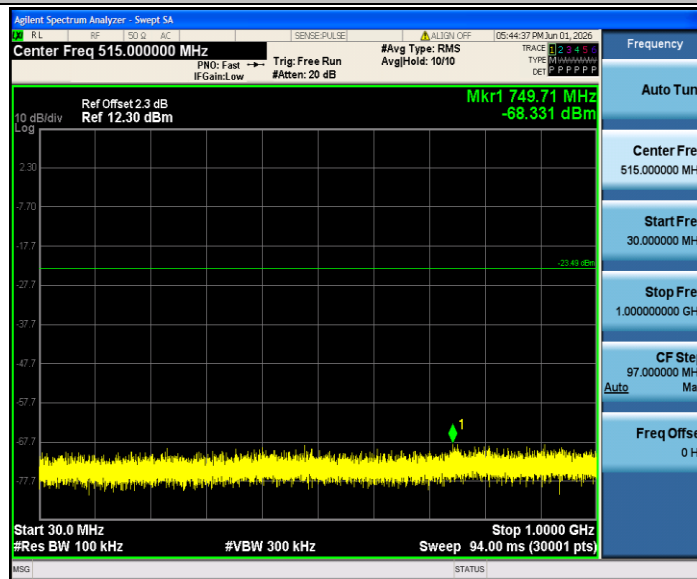
11B_Ant1_2462_1000~26500



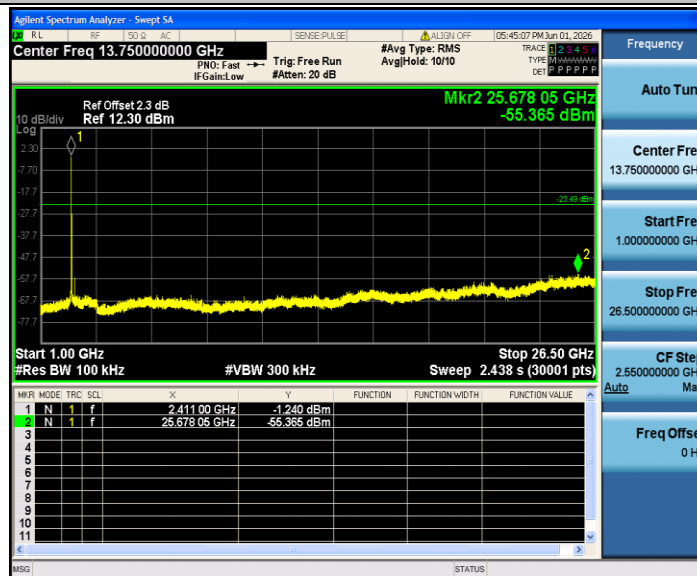
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



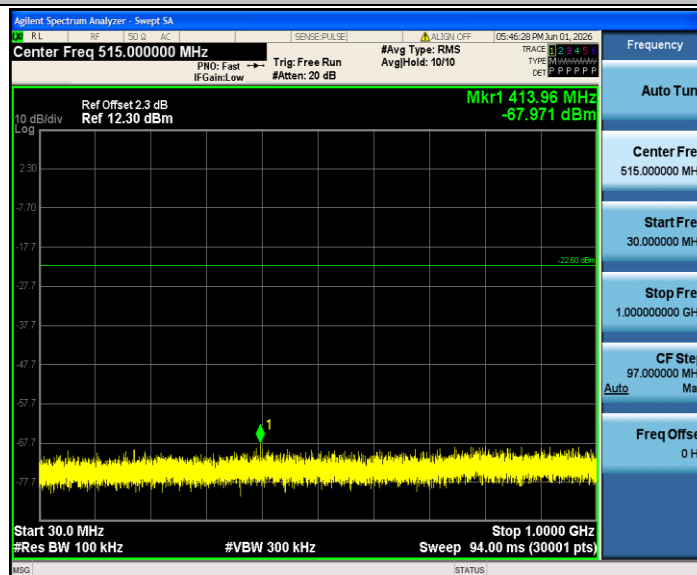
11G_Ant1_2412_1000~26500



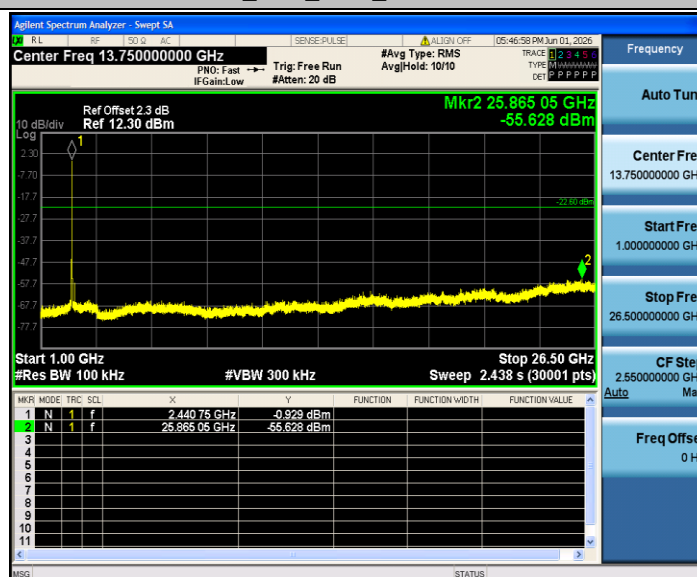
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



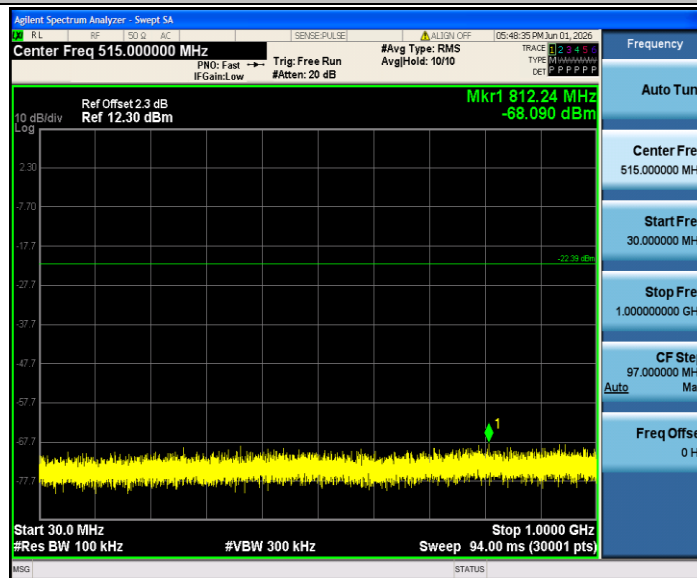
11G_Ant1_2437_1000~26500



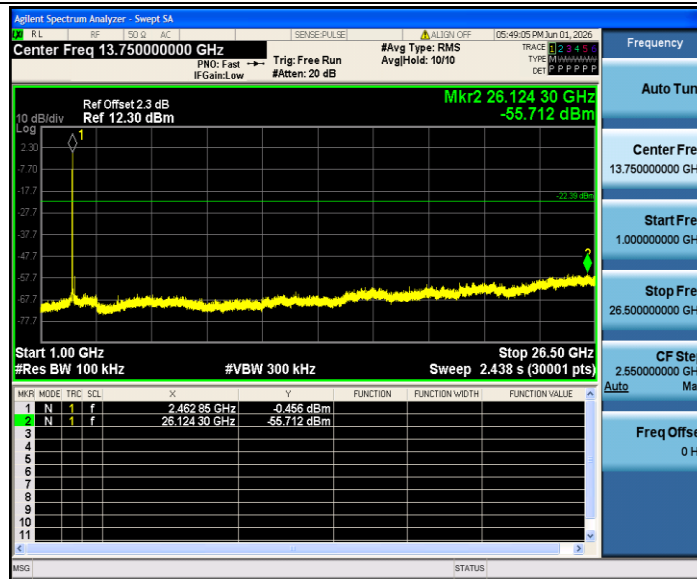
11G_Ant1_2462_0~Reference



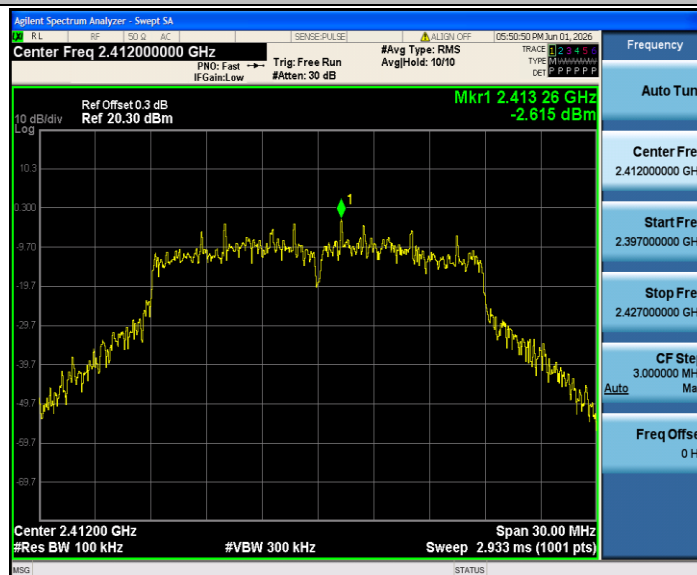
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

