

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A4NPHD2

Company : Dongguan Daozhi Electronic Technology Co., Ltd.

EUT : dash cam

Model Number : HD2

Report No. : CTA26071600301

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	15.960	2404.040	2420.000	0.5	PASS
		2437	15.760	2429.280	2445.040	0.5	PASS
		2462	15.560	2454.200	2469.760	0.5	PASS
11N20SISO	Ant1	2412	17.160	2403.320	2420.480	0.5	PASS
		2437	16.520	2428.920	2445.440	0.5	PASS
		2462	16.840	2453.640	2470.480	0.5	PASS
11N40SISO	Ant1	2422	34.560	2405.360	2439.920	0.5	PASS
		2437	35.520	2419.640	2455.160	0.5	PASS
		2452	35.520	2434.640	2470.160	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



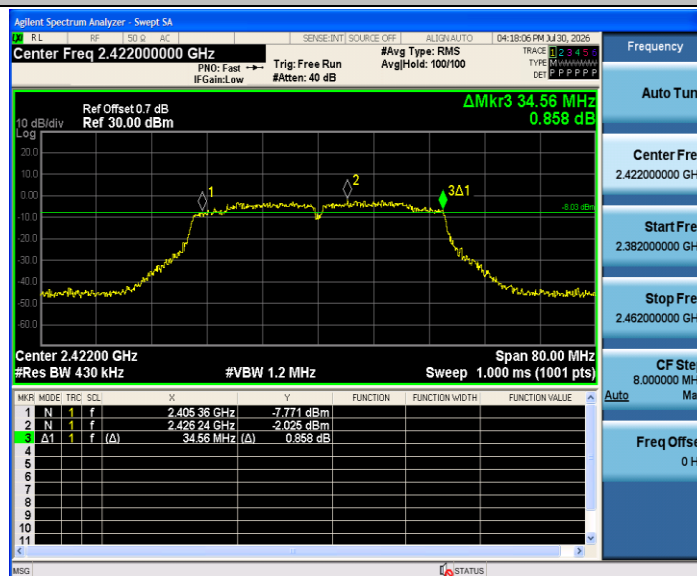
11N20SISO_Ant1_2437



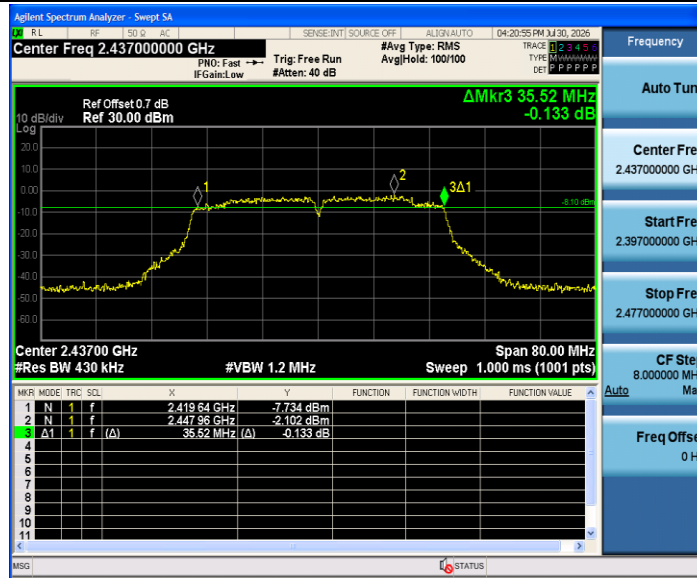
11N20SISO_Ant1_2462



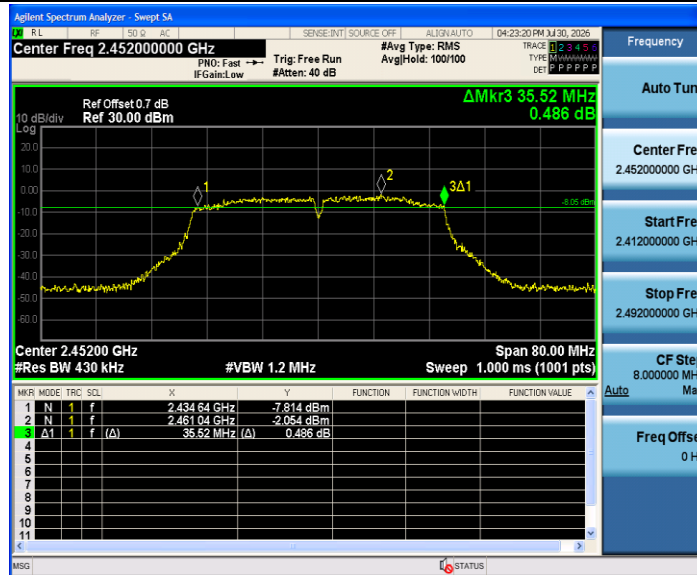
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



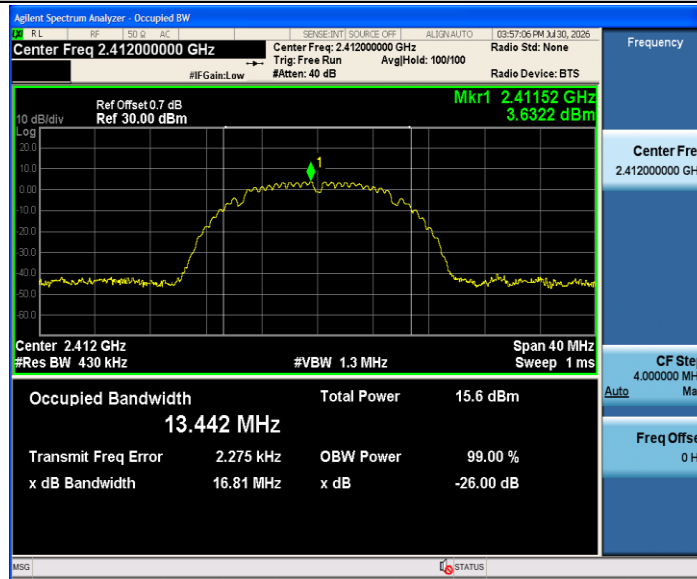
Appendix B: Occupied Channel Bandwidth

Test Result

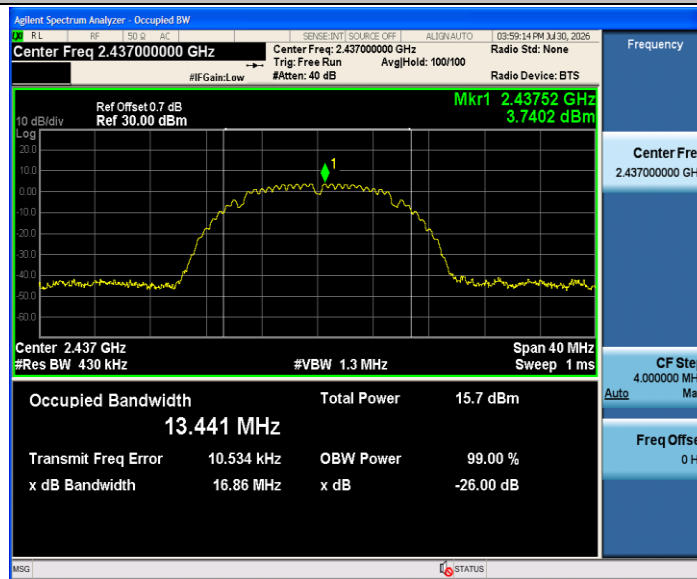
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.442	2405.2813	2418.7233	---	---
		2437	13.441	2430.2900	2443.7310	---	---
		2462	13.429	2455.3070	2468.7360	---	---
11G	Ant1	2412	16.865	2403.5633	2420.4283	---	---
		2437	16.853	2428.5772	2445.4302	---	---
		2462	16.798	2453.6371	2470.4351	---	---
11N20SISO	Ant1	2412	17.811	2403.1291	2420.9401	---	---
		2437	17.784	2428.1381	2445.9221	---	---
		2462	17.903	2453.0718	2470.9748	---	---
11N40SISO	Ant1	2422	36.028	2404.1283	2440.1563	---	---
		2437	36.160	2419.0971	2455.2571	---	---
		2452	36.015	2434.1268	2470.1418	---	---

Test Graphs

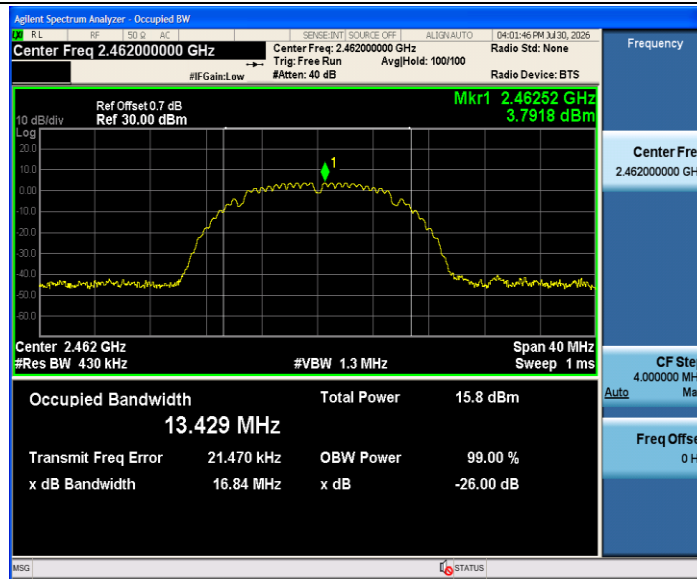
11B_Ant1_2412



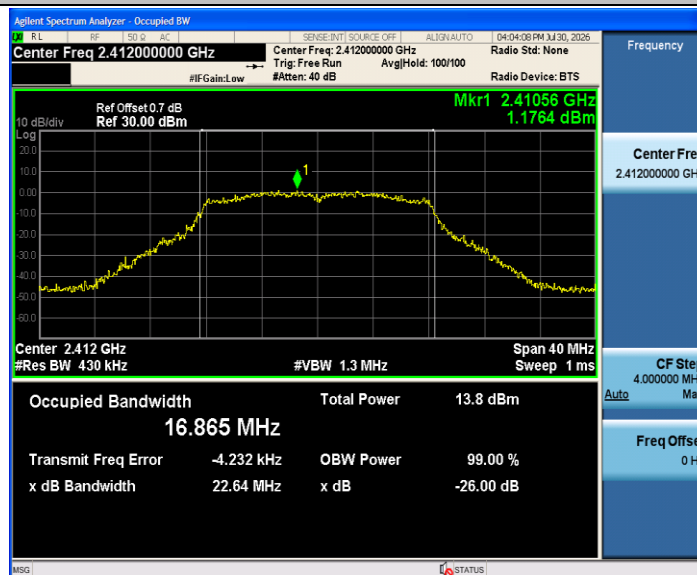
11B_Ant1_2437



11B_Ant1_2462



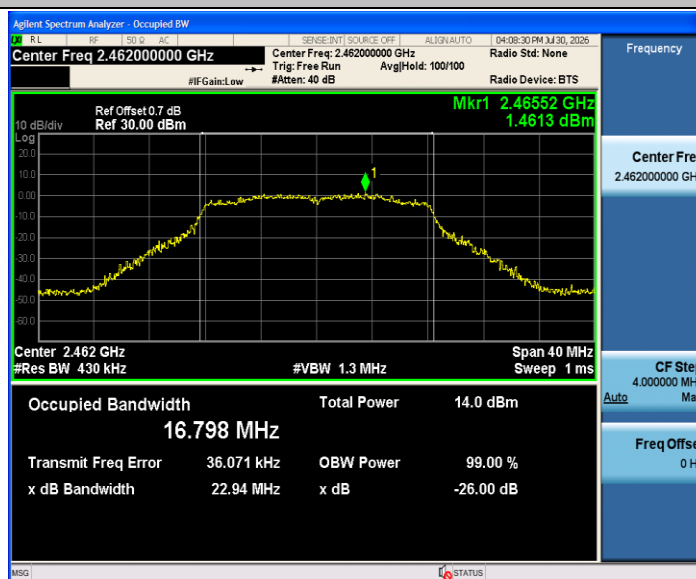
11G_Ant1_2412



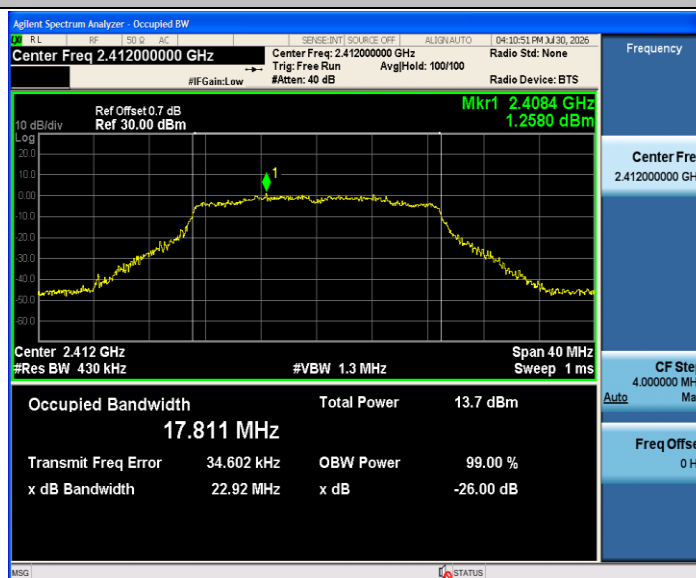
11G_Ant1_2437



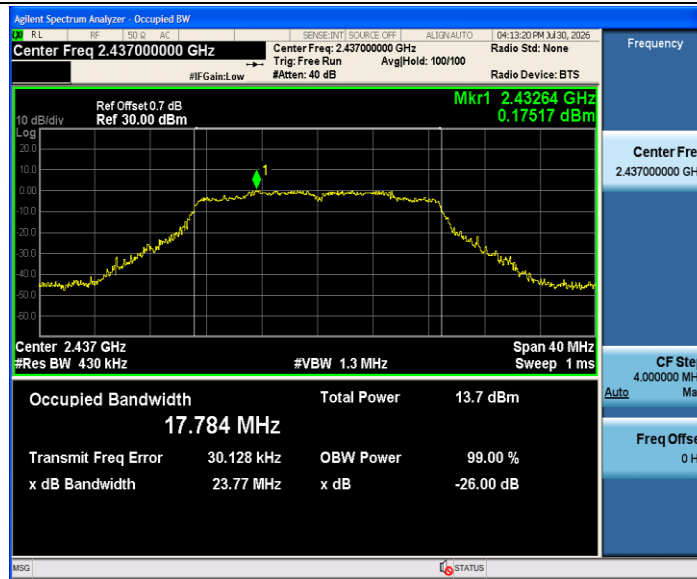
11G_Ant1_2462



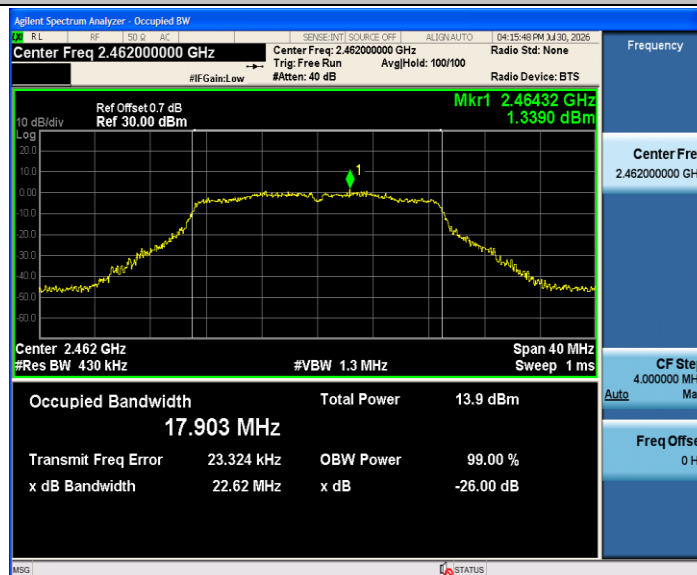
11N20SISO_Ant1_2412



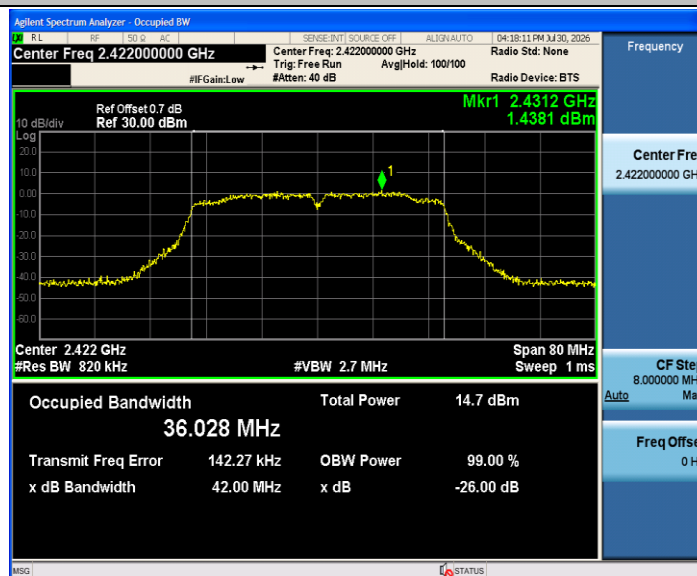
11N20SISO_Ant1_2437



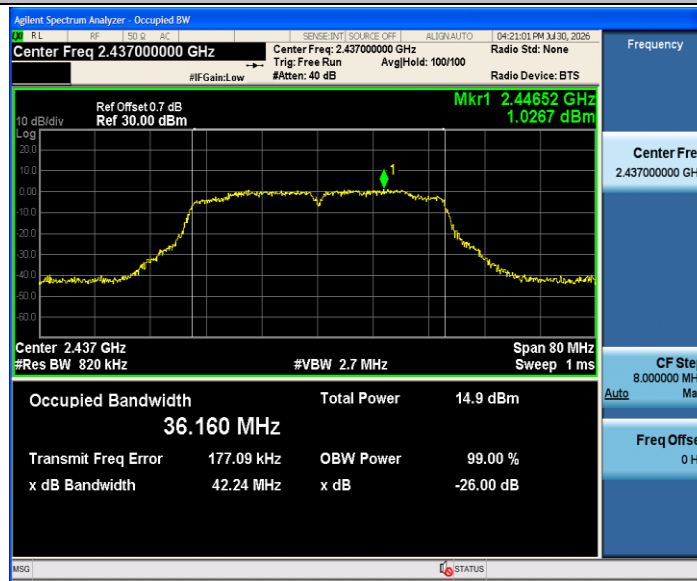
11N20SISO_Ant1_2462



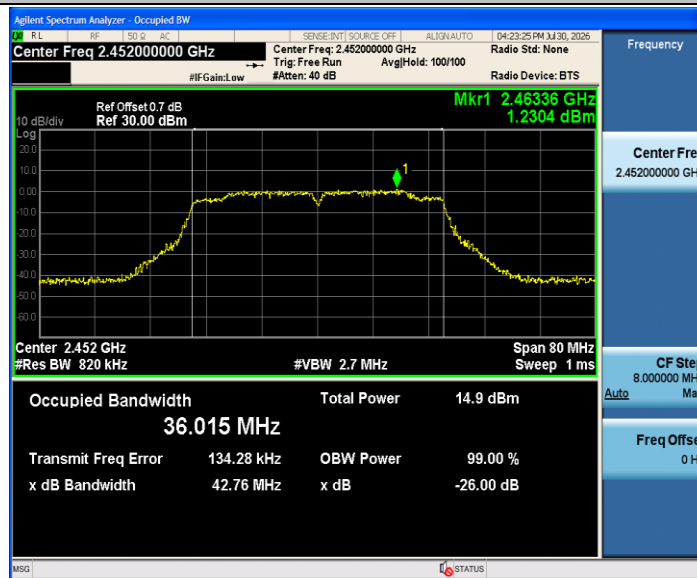
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	15.28	≤30.00	PASS
		2437	15.38	≤30.00	PASS
		2462	15.44	≤30.00	PASS
11G	Ant1	2412	14.73	≤30.00	PASS
		2437	14.73	≤30.00	PASS
		2462	14.87	≤30.00	PASS
11N20SISO	Ant1	2412	14.55	≤30.00	PASS
		2437	14.61	≤30.00	PASS
		2462	14.82	≤30.00	PASS
11N40SISO	Ant1	2422	14.79	≤30.00	PASS
		2437	15.00	≤30.00	PASS
		2452	15.03	≤30.00	PASS

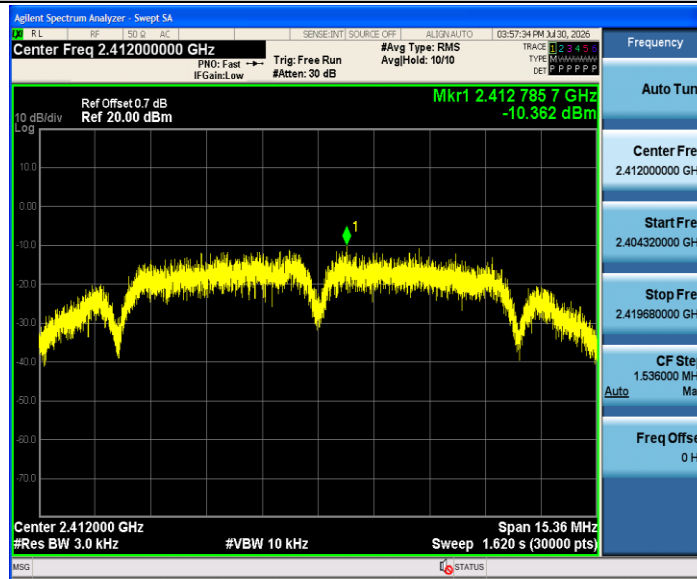
Appendix D: Maximum power spectral density

Test Result

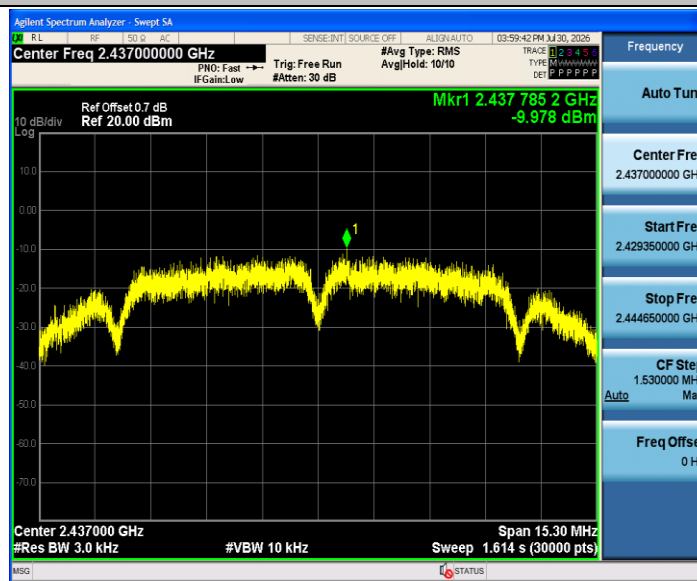
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.36	≤8.00	PASS
		2437	-9.98	≤8.00	PASS
		2462	-10.62	≤8.00	PASS
11G	Ant1	2412	-16.93	≤8.00	PASS
		2437	-16.93	≤8.00	PASS
		2462	-16.77	≤8.00	PASS
11N20SISO	Ant1	2412	-17.37	≤8.00	PASS
		2437	-16.80	≤8.00	PASS
		2462	-17.20	≤8.00	PASS
11N40SISO	Ant1	2422	-19.40	≤8.00	PASS
		2437	-19.07	≤8.00	PASS
		2452	-19.39	≤8.00	PASS

Test Graphs

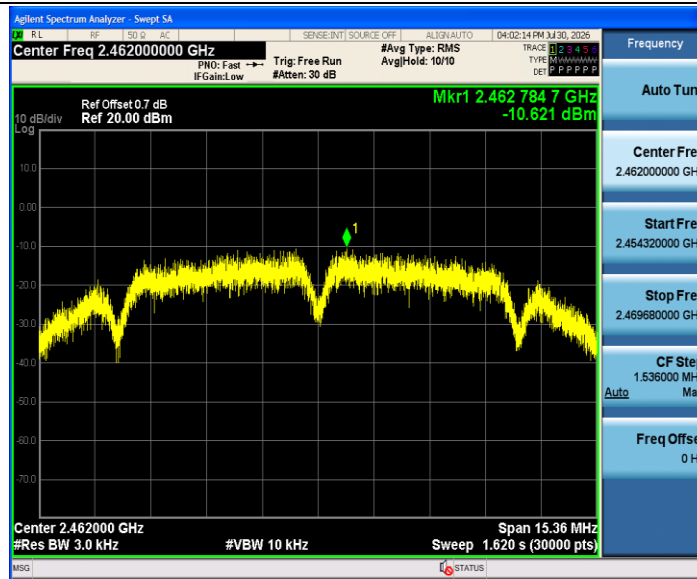
11B_Ant1_2412



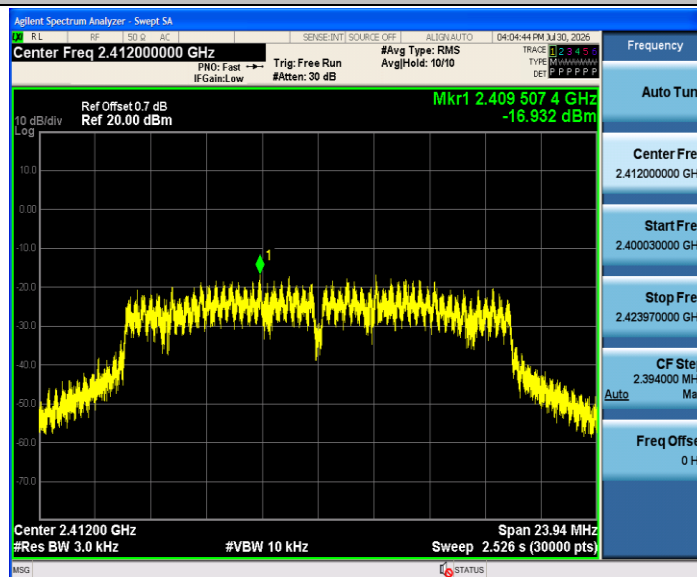
11B_Ant1_2437



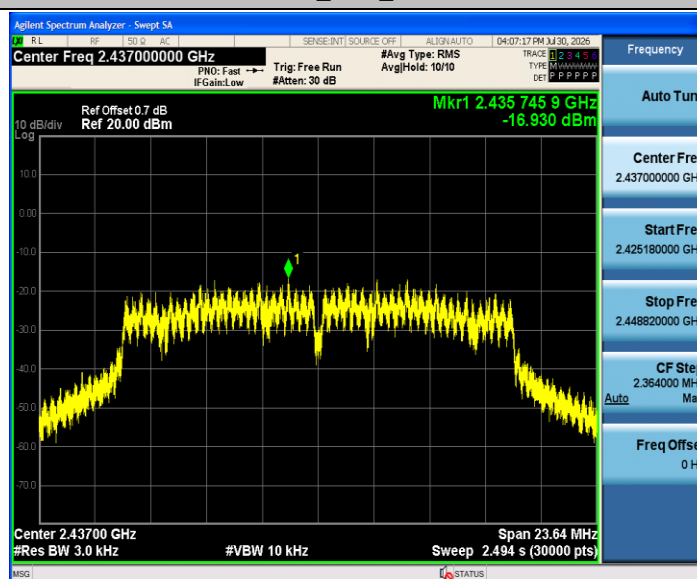
11B_Ant1_2462



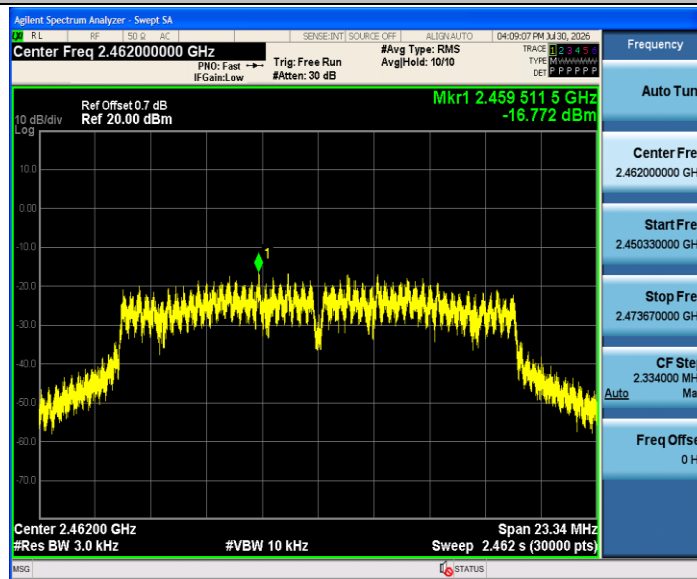
11G_Ant1_2412



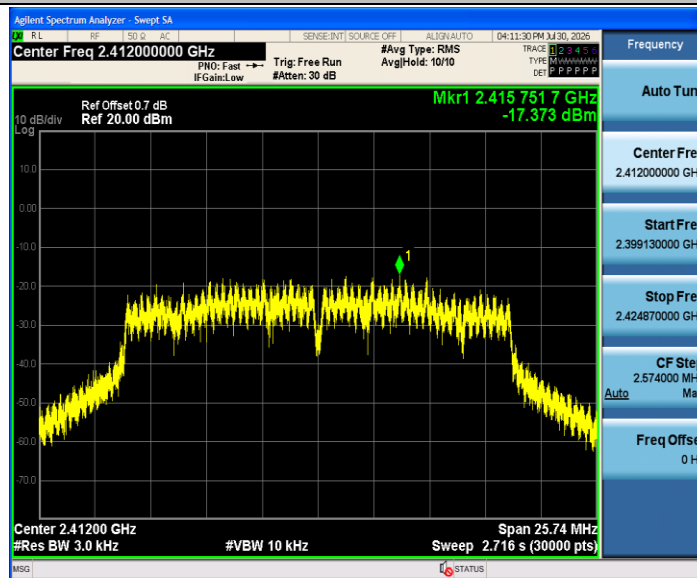
11G_Ant1_2437



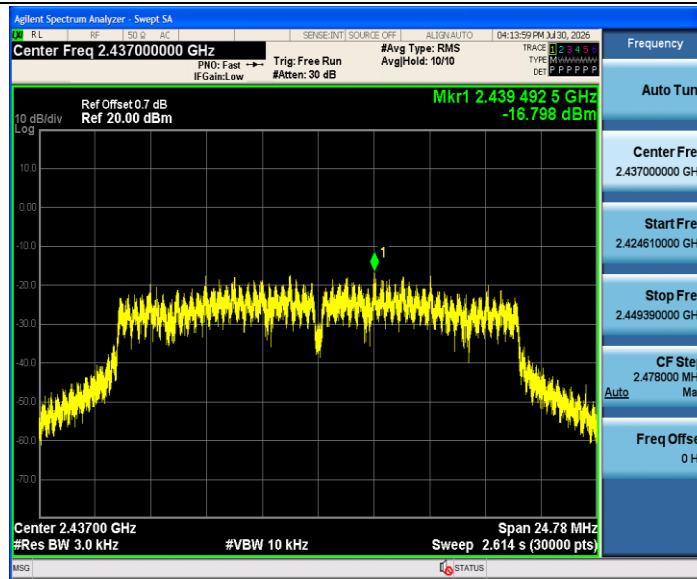
11G_Ant1_2462



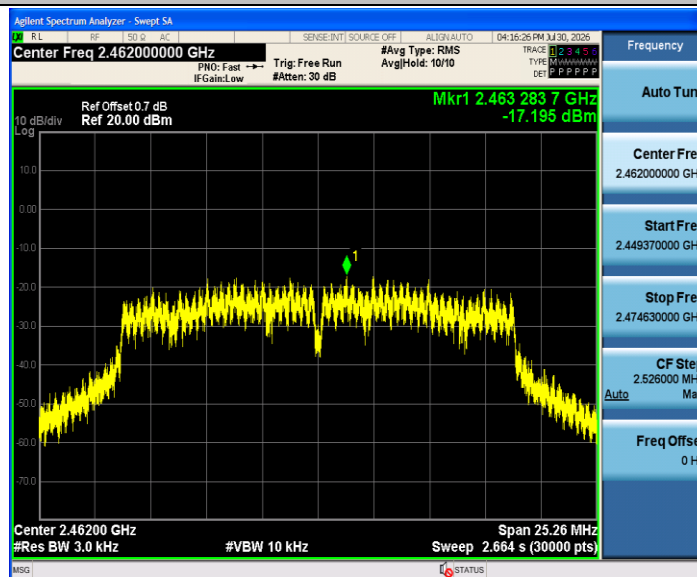
11N20SISO_Ant1_2412



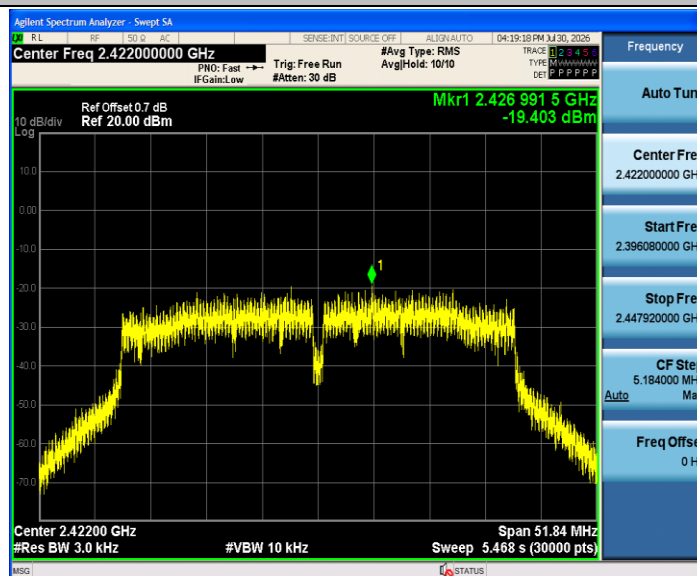
11N20SISO_Ant1_2437



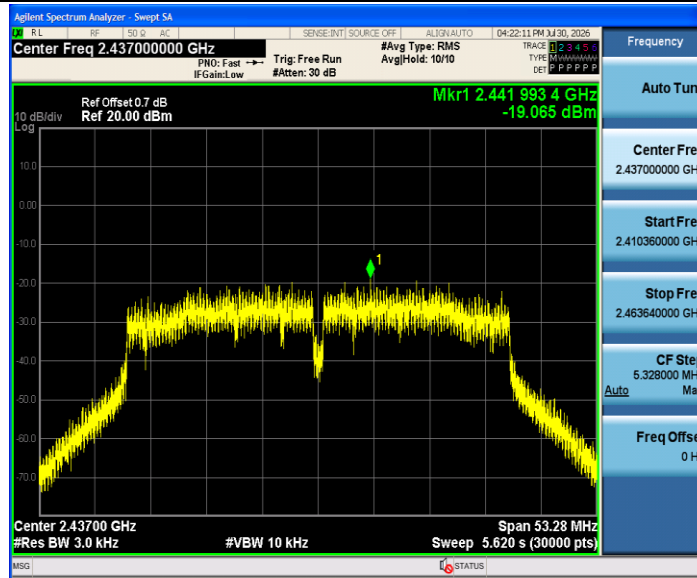
11N20SISO_Ant1_2462



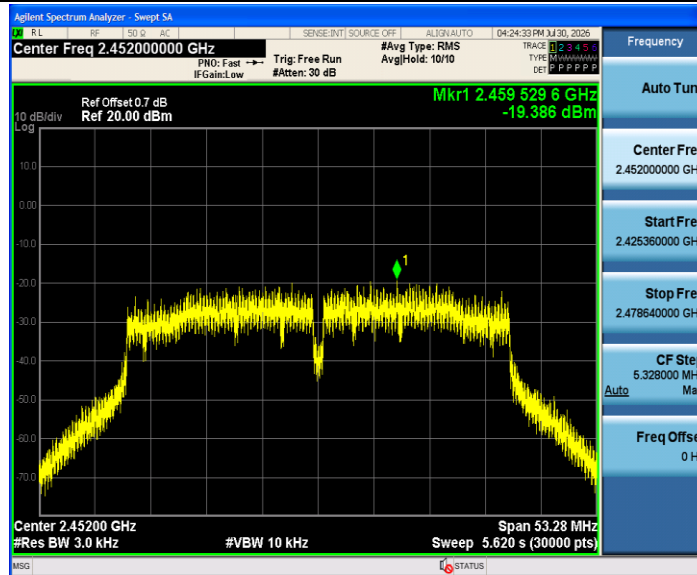
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



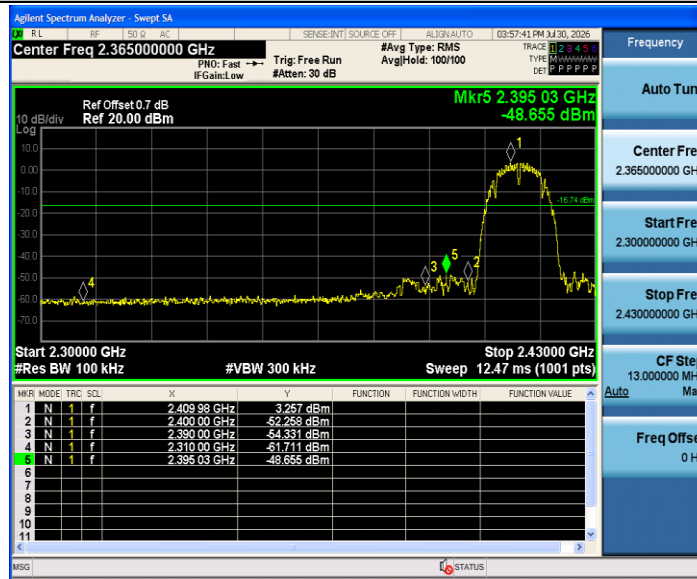
Appendix E: Band edge measurements

Test Result

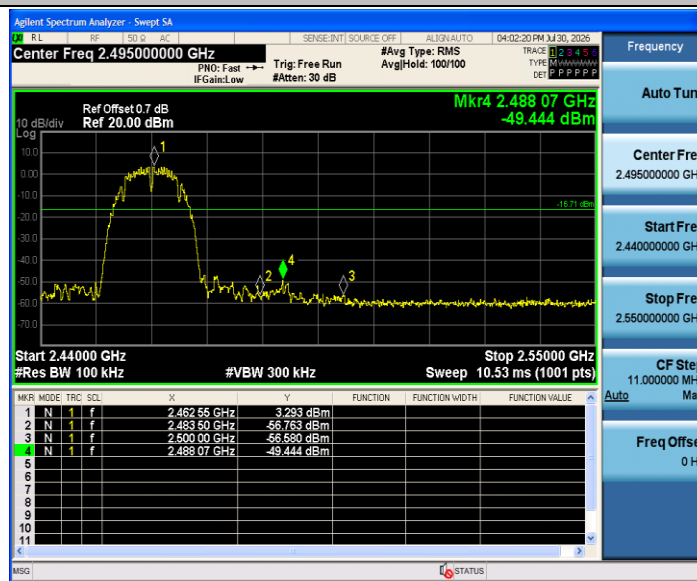
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.26	-48.66	≤-16.74	PASS
		High	2462	3.29	-49.44	≤-16.71	PASS
11G	Ant1	Low	2412	-1.87	-33.09	≤-21.87	PASS
		High	2462	-1.58	-58.03	≤-21.58	PASS
11N20SISO	Ant1	Low	2412	-1.88	-33.19	≤-21.88	PASS
		High	2462	-1.49	-57.69	≤-21.49	PASS
11N40SISO	Ant1	Low	2422	-4.95	-34.25	≤-24.95	PASS
		High	2452	-4.73	-54.57	≤-24.73	PASS

Test Graphs

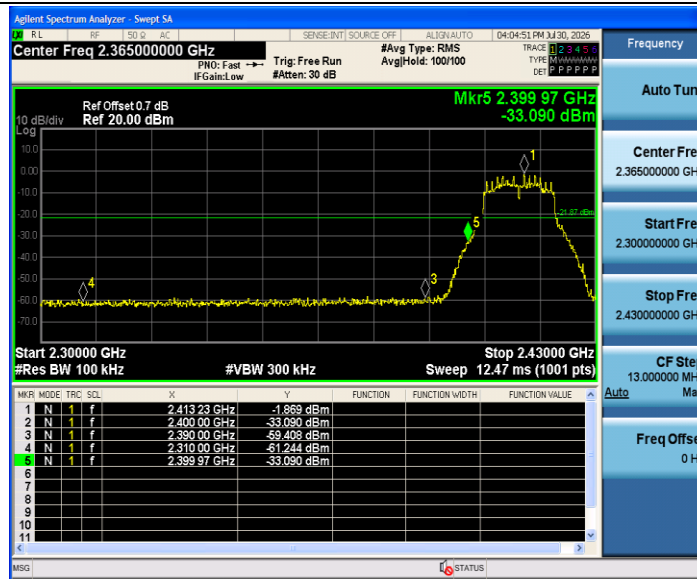
11B_Ant1_Low_2412



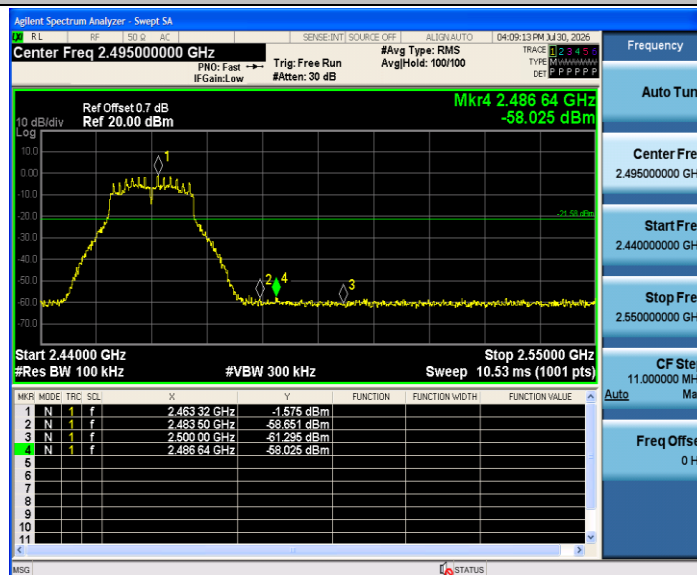
11B_Ant1_High_2462



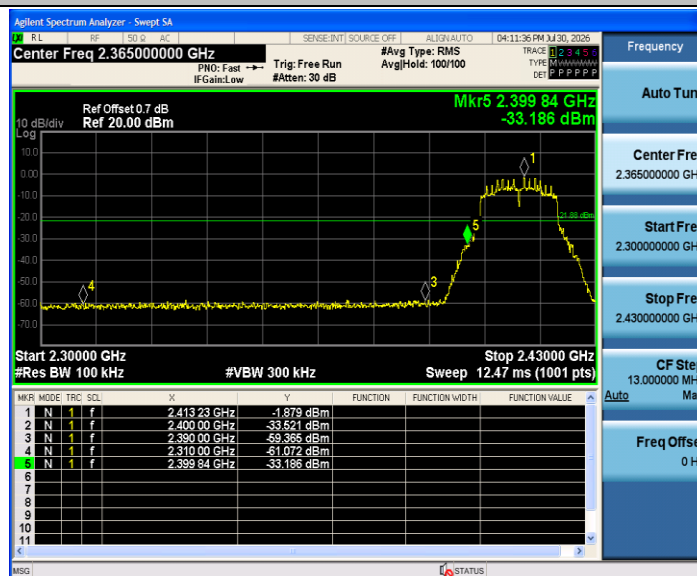
11G_Ant1_Low_2412



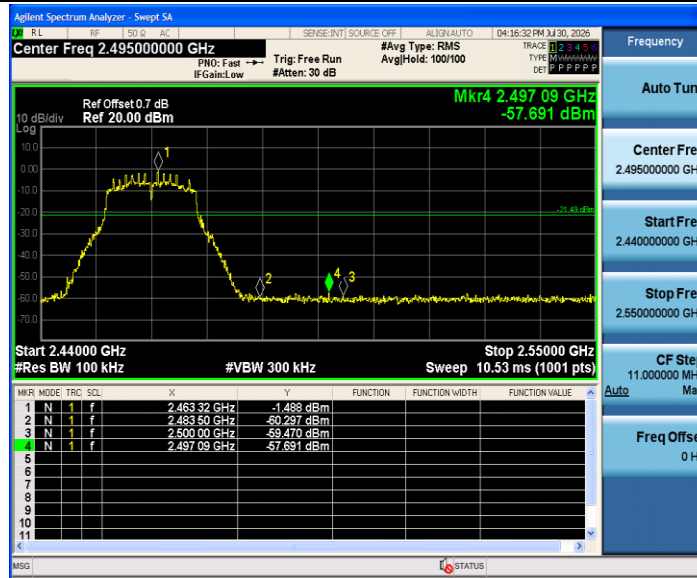
11G_Ant1_High_2462



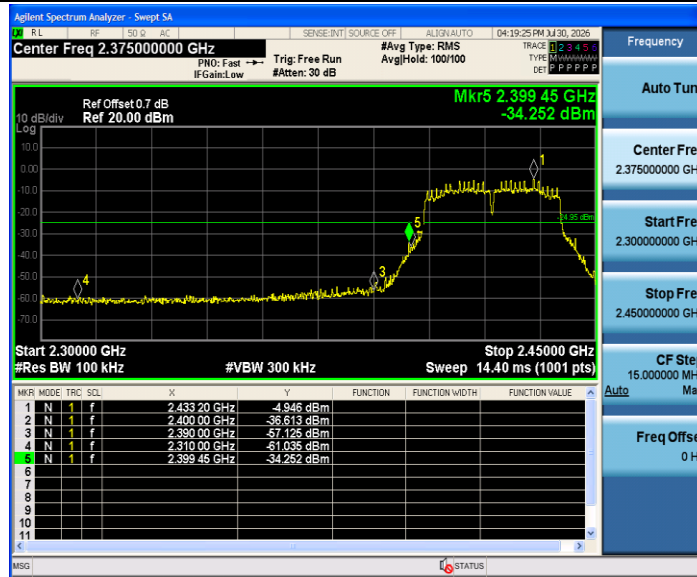
11N20SISO_Ant1_Low_2412



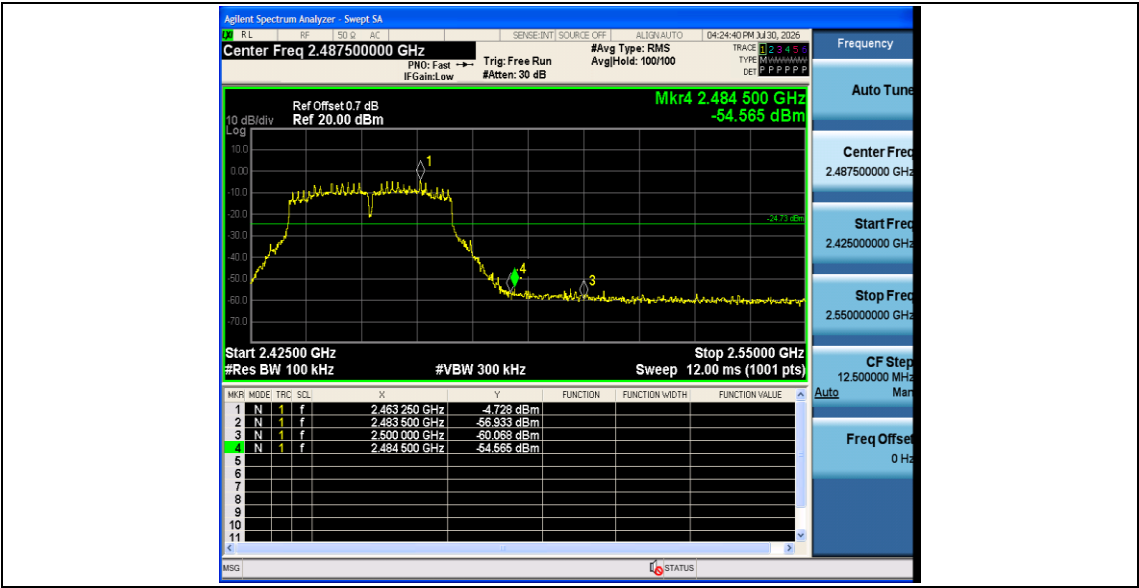
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

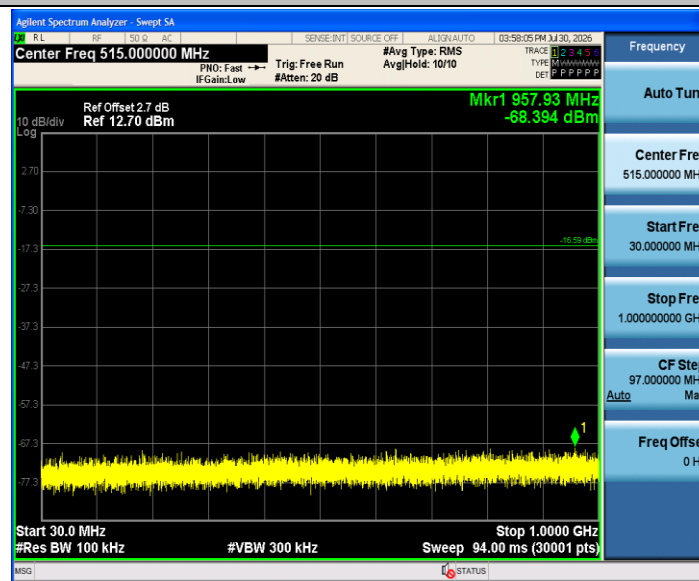
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.41	3.41	---	PASS
			30~1000	3.41	-68.39	≤-16.59	PASS
			1000~26500	3.41	-46.99	≤-16.59	PASS
		2437	Reference	2.28	2.28	---	PASS
			30~1000	2.28	-67.96	≤-17.72	PASS
			1000~26500	2.28	-46.25	≤-17.72	PASS
		2462	Reference	3.01	3.01	---	PASS
			30~1000	3.01	-67.19	≤-16.99	PASS
			1000~26500	3.01	-46.03	≤-16.99	PASS
11G	Ant1	2412	Reference	-1.98	-1.98	---	PASS
			30~1000	-1.98	-68.11	≤-21.98	PASS
			1000~26500	-1.98	-47.12	≤-21.98	PASS
		2437	Reference	-2.71	-2.71	---	PASS
			30~1000	-2.71	-67.71	≤-22.71	PASS
			1000~26500	-2.71	-46.18	≤-22.71	PASS
		2462	Reference	-2.01	-2.01	---	PASS
			30~1000	-2.01	-67.82	≤-22.01	PASS
			1000~26500	-2.01	-46.61	≤-22.01	PASS
11N20SISO	Ant1	2412	Reference	-2.31	-2.31	---	PASS
			30~1000	-2.31	-67.34	≤-22.31	PASS
			1000~26500	-2.31	-46.72	≤-22.31	PASS
		2437	Reference	-3.47	-3.47	---	PASS
			30~1000	-3.47	-68.17	≤-23.47	PASS
			1000~26500	-3.47	-46.42	≤-23.47	PASS
		2462	Reference	-1.73	-1.73	---	PASS
			30~1000	-1.73	-67.47	≤-21.73	PASS
			1000~26500	-1.73	-46.96	≤-21.73	PASS
11N40SISO	Ant1	2422	Reference	-5.41	-5.41	---	PASS
			30~1000	-5.41	-68.27	≤-25.41	PASS
			1000~26500	-5.41	-46.32	≤-25.41	PASS
		2437	Reference	-4.86	-4.86	---	PASS
			30~1000	-4.86	-67.69	≤-24.86	PASS
			1000~26500	-4.86	-46.2	≤-24.86	PASS
		2452	Reference	-5.39	-5.39	---	PASS
			30~1000	-5.39	-68.62	≤-25.39	PASS
			1000~26500	-5.39	-46.6	≤-25.39	PASS

Test Graphs

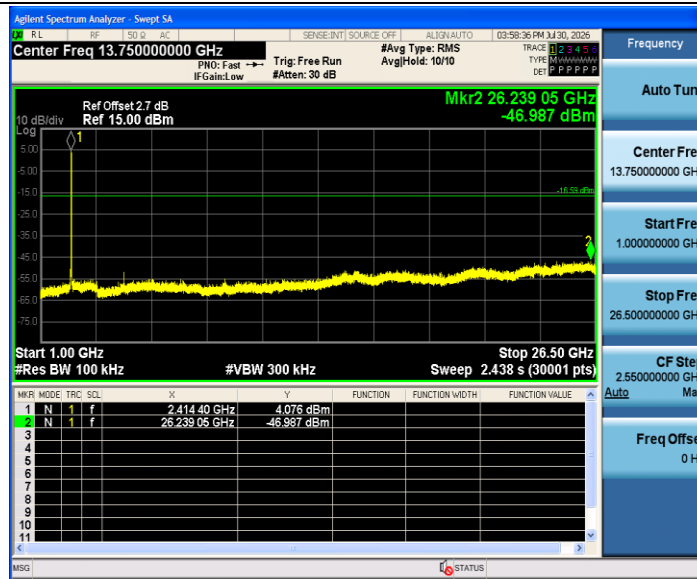
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



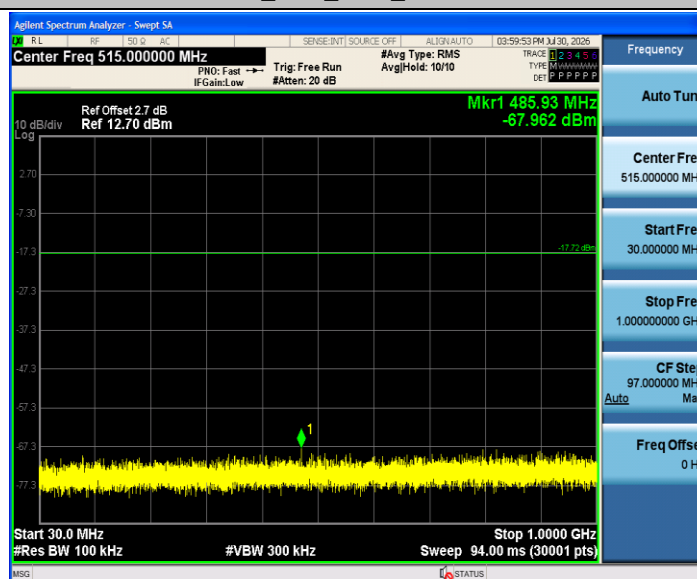
11B_Ant1_2412_1000~26500



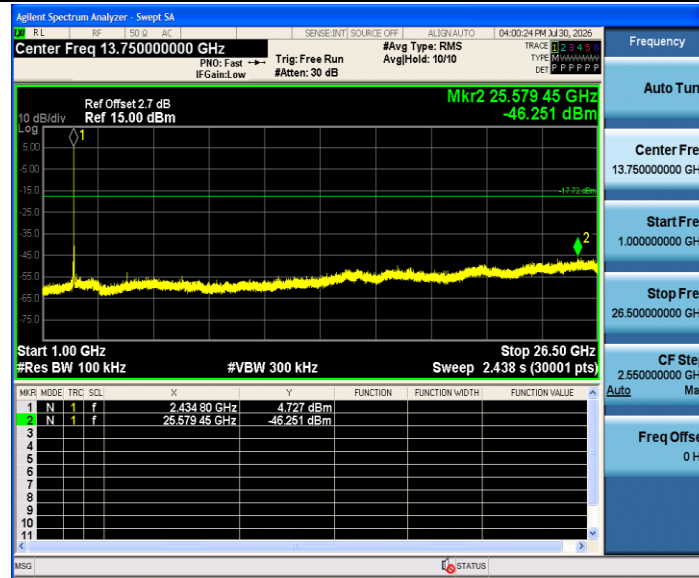
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



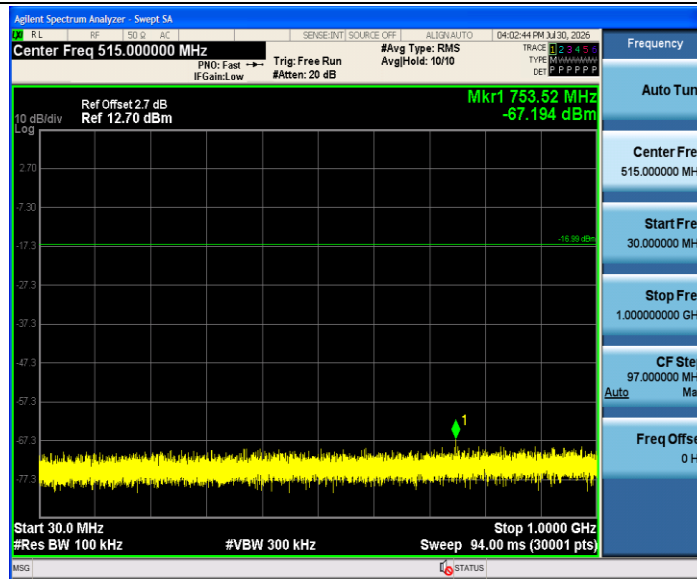
11B_Ant1_2437_1000~26500



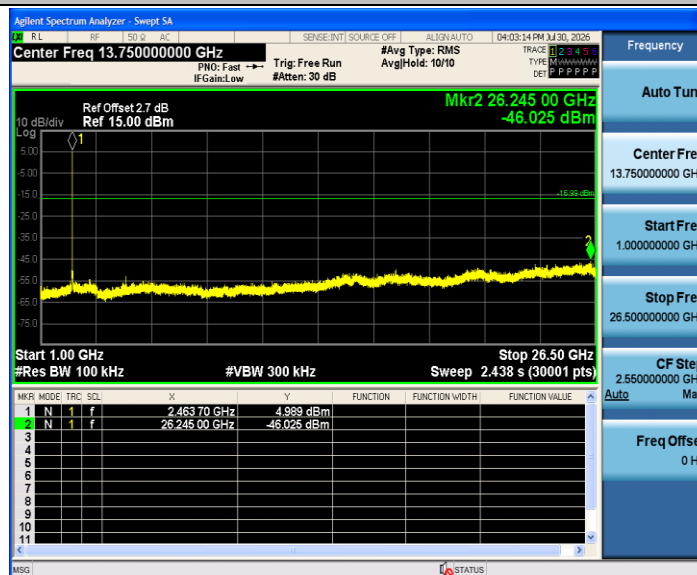
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



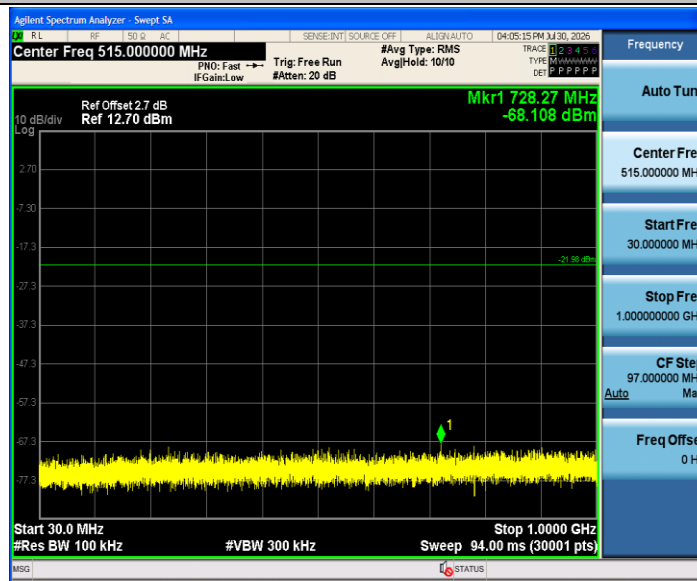
11B_Ant1_2462_1000~26500



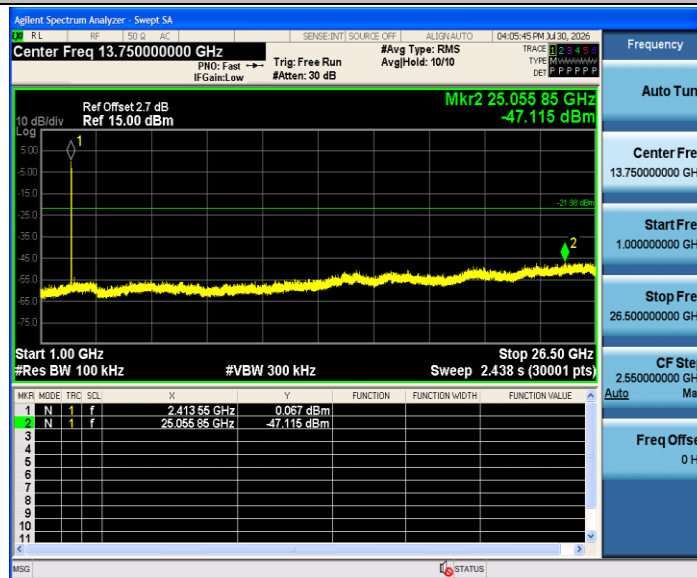
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



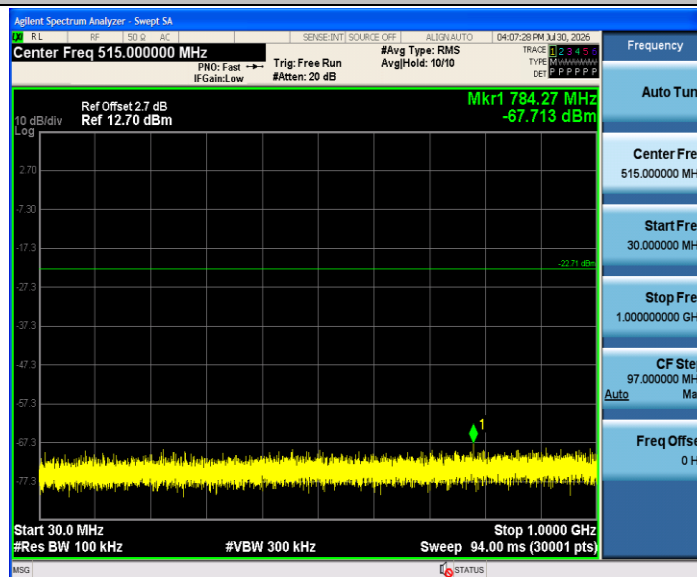
11G_Ant1_2412_1000~26500



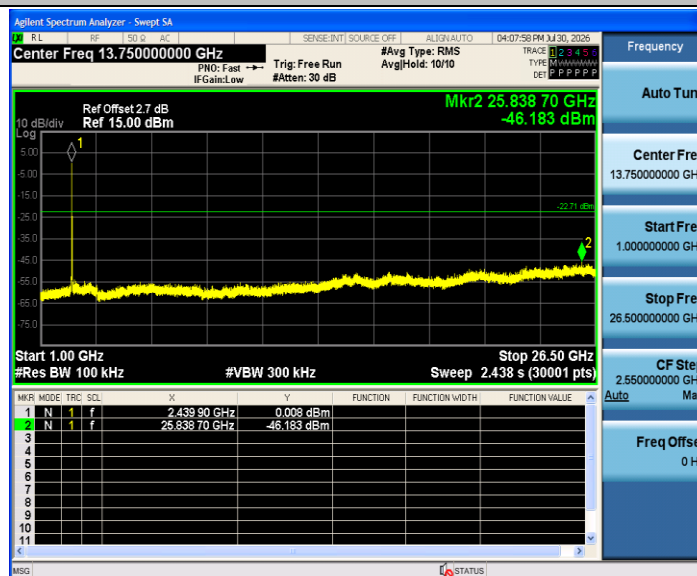
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



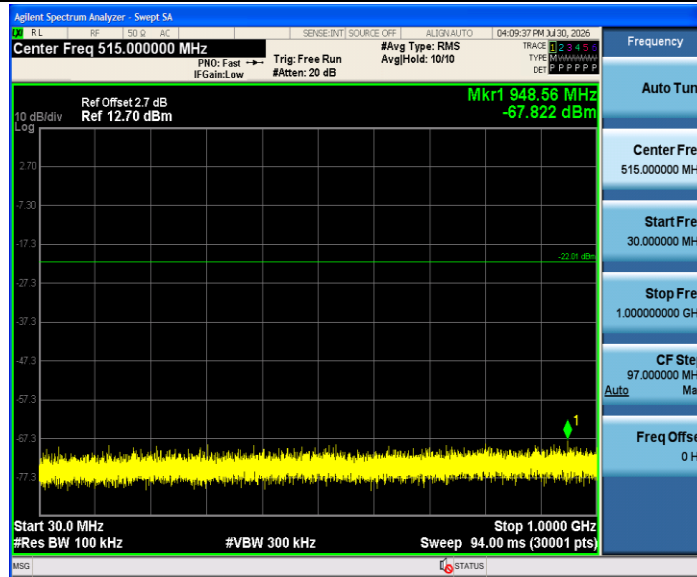
11G_Ant1_2437_1000~26500



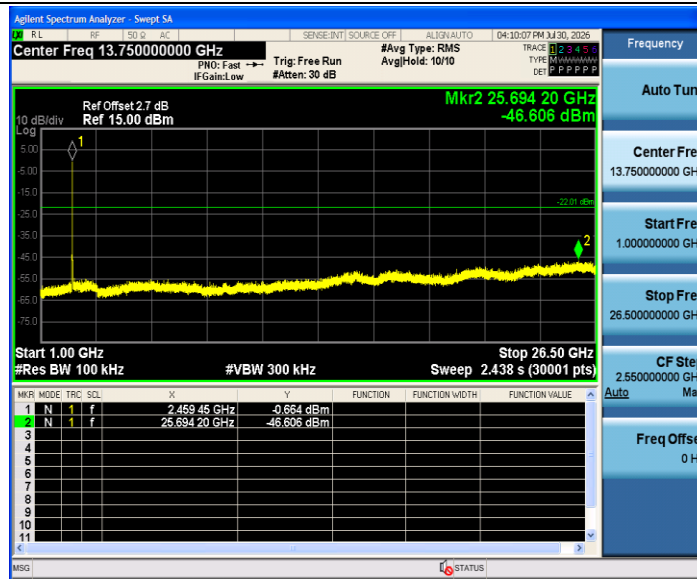
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

