

FCC Appendix RF Test Data

FCC ID : 2BQ6T-D7

Company : Shenzhen Hengying Weicheng Investment Co., LTD

EUT : Dashcam

Model Number : D7

Report No. : CTA25070102001

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	9.040	2408.000	2417.040	0.5	PASS
		2437	9.520	2432.520	2442.040	0.5	PASS
		2462	9.040	2456.960	2466.000	0.5	PASS
11G	Ant1	2412	13.160	2407.000	2420.160	0.5	PASS
		2437	15.760	2428.840	2444.600	0.5	PASS
		2462	15.640	2454.520	2470.160	0.5	PASS
11N20SISO	Ant1	2412	13.440	2406.960	2420.400	0.5	PASS
		2437	16.200	2428.360	2444.560	0.5	PASS
		2462	15.840	2454.480	2470.320	0.5	PASS
11N40SISO	Ant1	2422	22.640	2410.720	2433.360	0.5	PASS
		2437	35.440	2419.080	2454.520	0.5	PASS
		2452	35.440	2434.480	2469.920	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



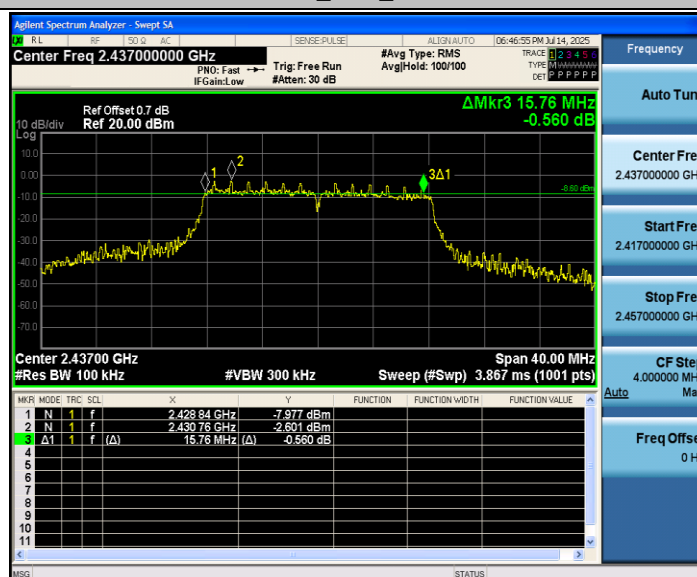
11B_Ant1_2462

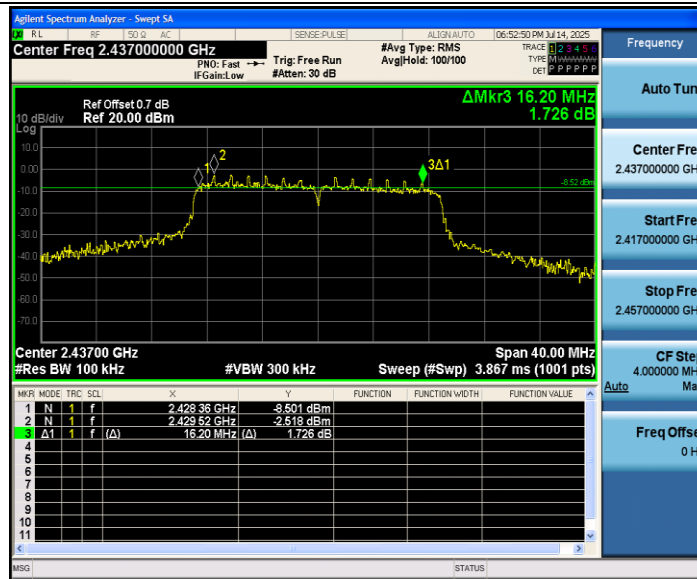


11G_Ant1_2412

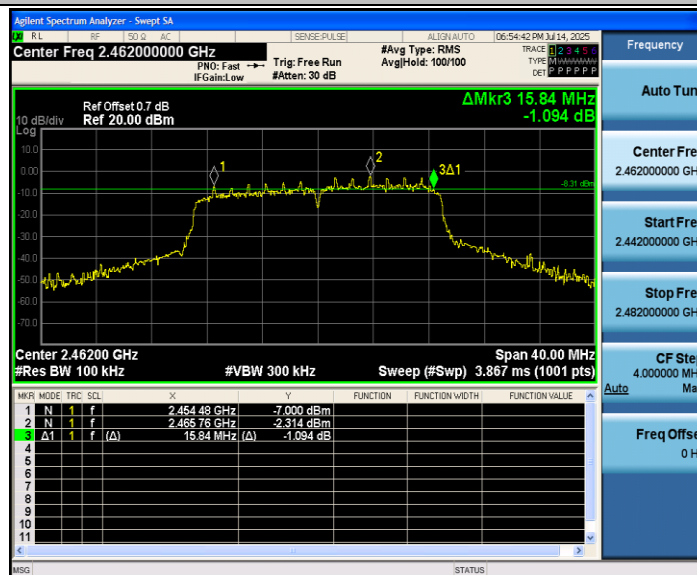


11G_Ant1_2437

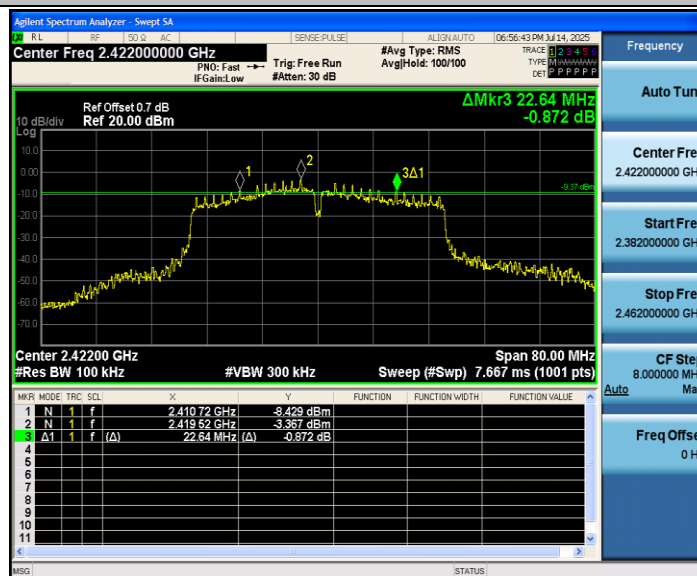




11N20SISO_Ant1_2462



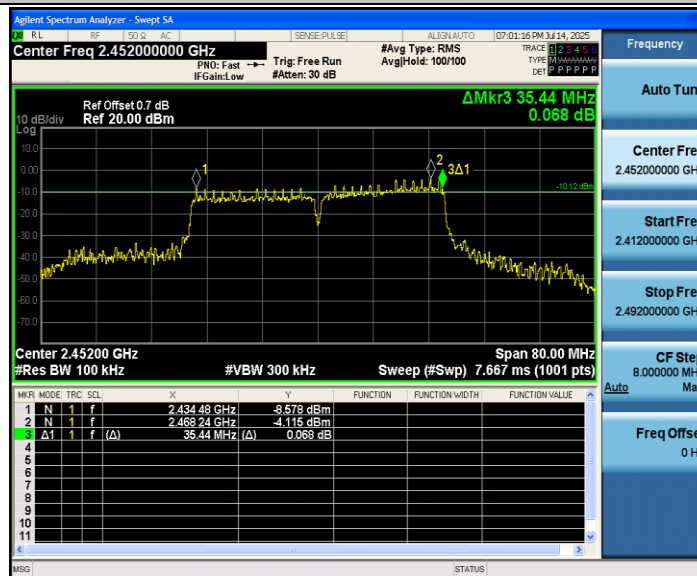
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix B: Occupied Channel Bandwidth

Test Result

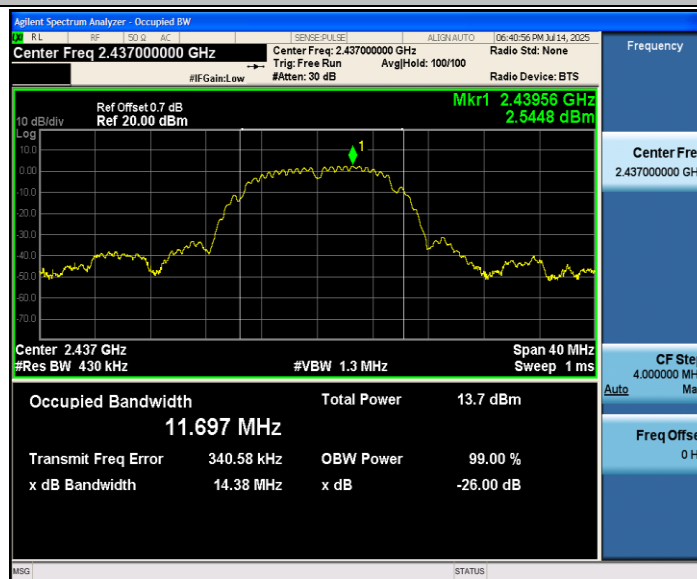
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.076	2406.8573	2418.9333	---	---
		2437	11.697	2431.4921	2443.1891	---	---
		2462	11.768	2455.9611	2467.7291	---	---
11G	Ant1	2412	16.655	2404.0327	2420.6877	---	---
		2437	16.819	2428.4592	2445.2782	---	---
		2462	16.553	2453.9254	2470.4784	---	---
11N20SISO	Ant1	2412	17.624	2403.5465	2421.1705	---	---
		2437	17.855	2427.9428	2445.7978	---	---
		2462	17.545	2453.4009	2470.9459	---	---
11N40SISO	Ant1	2422	35.482	2404.4024	2439.8844	---	---
		2437	36.702	2418.4296	2455.1316	---	---
		2452	36.480	2433.9947	2470.4747	---	---

Test Graphs

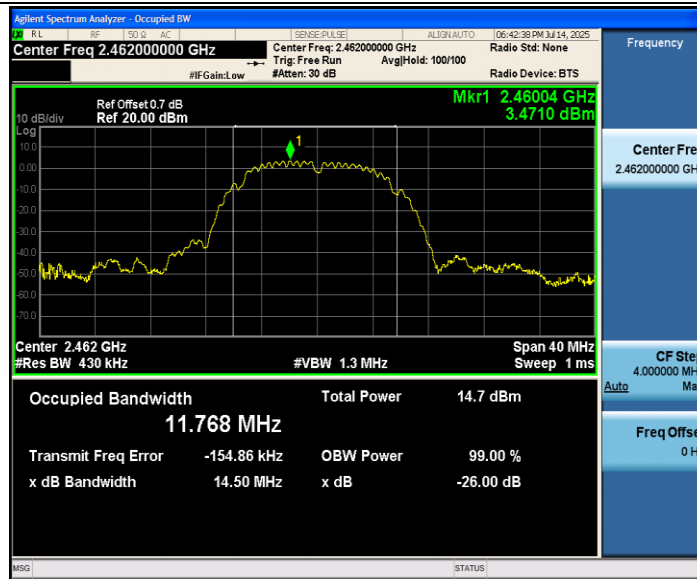
11B_Ant1_2412



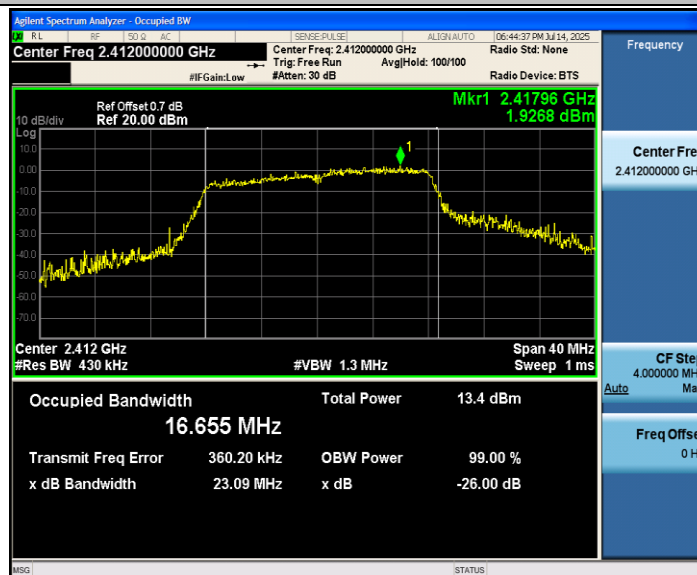
11B_Ant1_2437



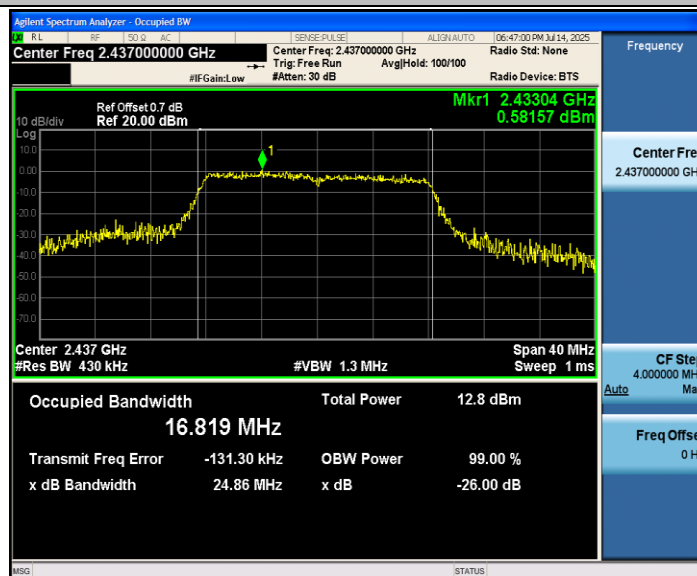
11B_Ant1_2462



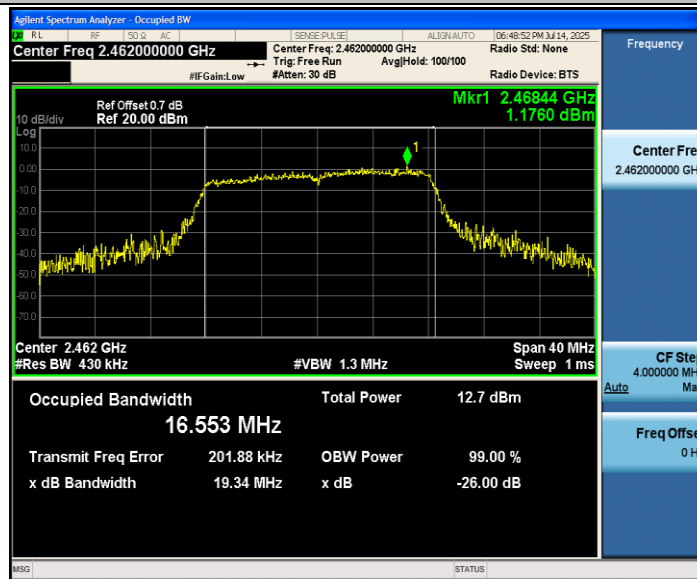
11G_Ant1_2412



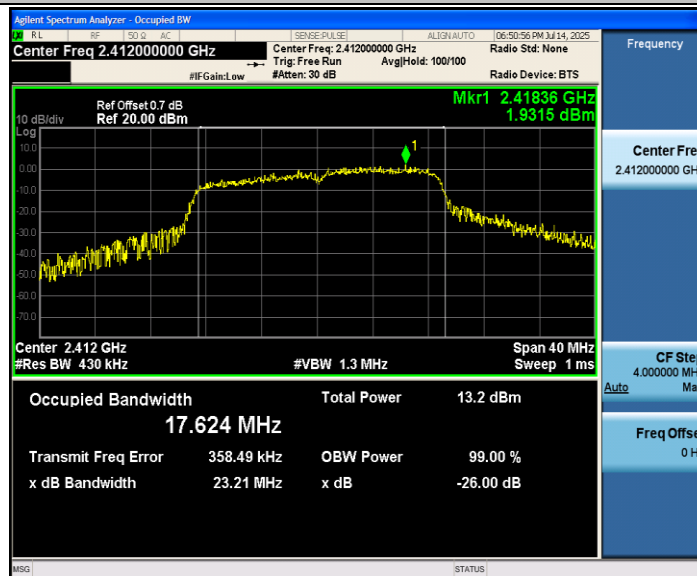
11G_Ant1_2437



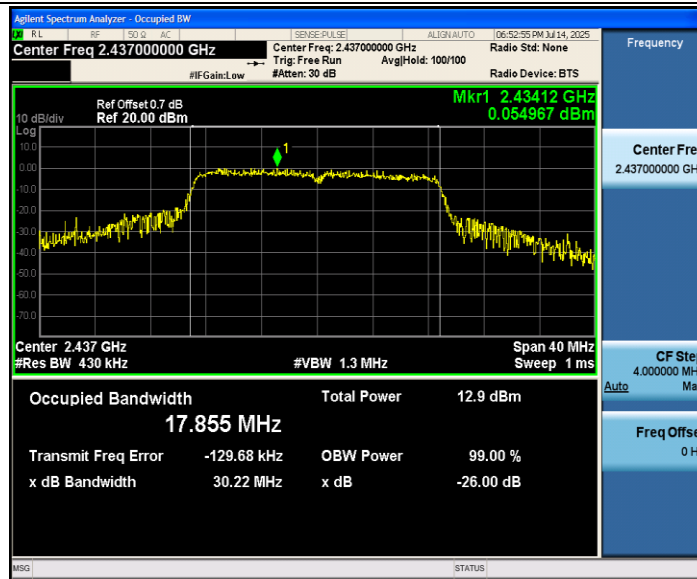
11G_Ant1_2462



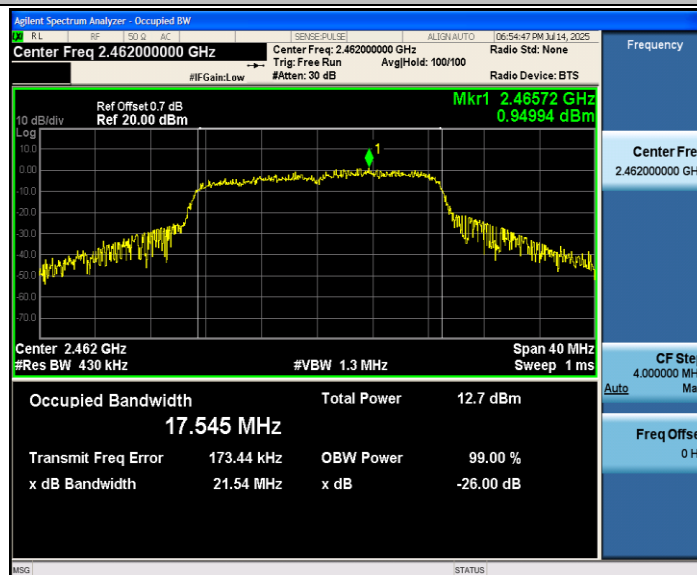
11N20SISO_Ant1_2412



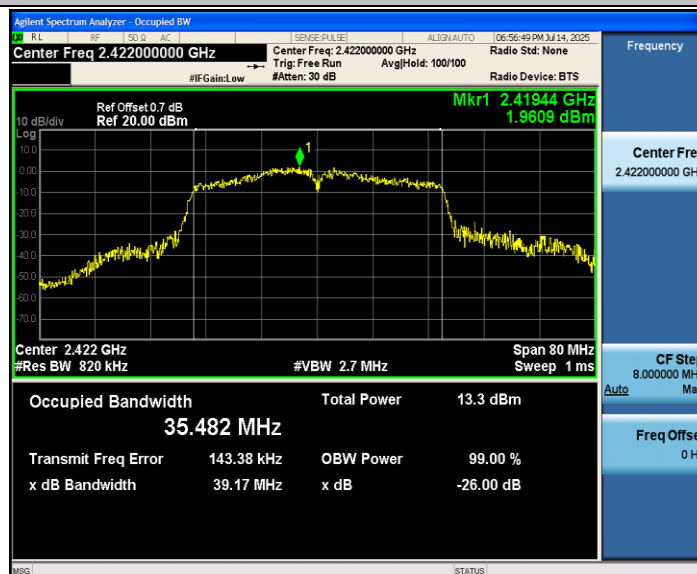
11N20SISO_Ant1_2437



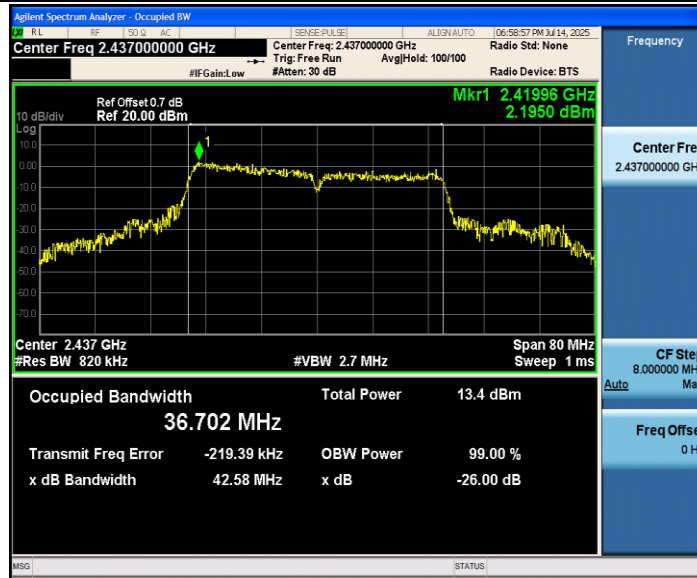
11N20SISO_Ant1_2462



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	13.57	≤30.00	PASS
		2462	14.57	≤30.00	PASS
11G	Ant1	2412	13.67	≤30.00	PASS
		2437	13.61	≤30.00	PASS
		2462	13.30	≤30.00	PASS
11N20SISO	Ant1	2412	13.80	≤30.00	PASS
		2437	13.50	≤30.00	PASS
		2462	13.06	≤30.00	PASS
11N40SISO	Ant1	2422	12.77	≤30.00	PASS
		2437	13.31	≤30.00	PASS
		2452	13.46	≤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	-9.58	≤8.00	PASS
		2437	-11.85	≤8.00	PASS
		2462	-10.81	≤8.00	PASS
11G	Ant1	2412	-15.83	≤8.00	PASS
		2437	-17.86	≤8.00	PASS
		2462	-18.34	≤8.00	PASS
11N20SISO	Ant1	2412	-15.95	≤8.00	PASS
		2437	-16.55	≤8.00	PASS
		2462	-17.56	≤8.00	PASS
11N40SISO	Ant1	2422	-18.71	≤8.00	PASS
		2437	-18.37	≤8.00	PASS
		2452	-18.98	≤8.00	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



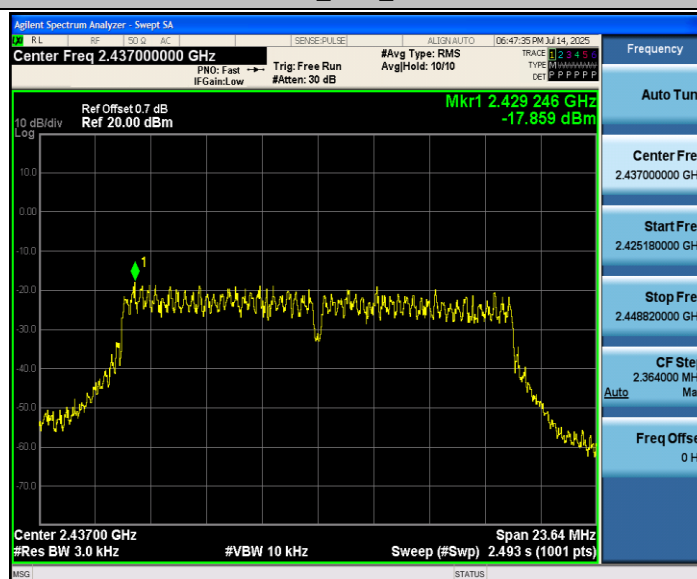
11B_Ant1_2462



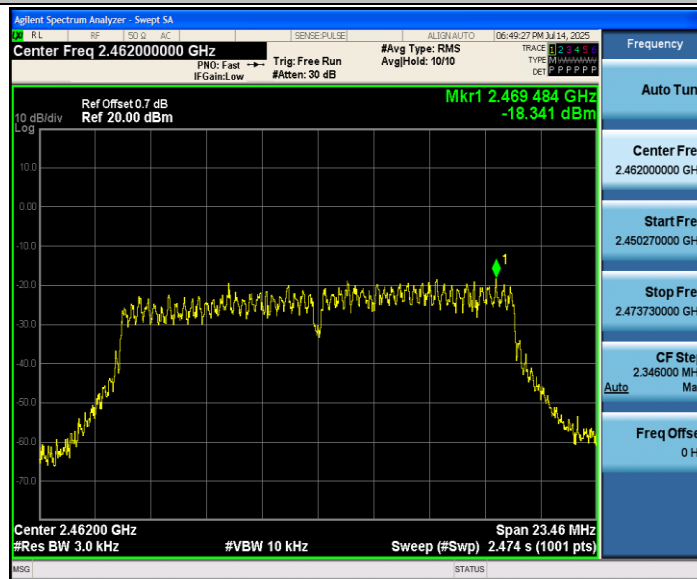
11G_Ant1_2412



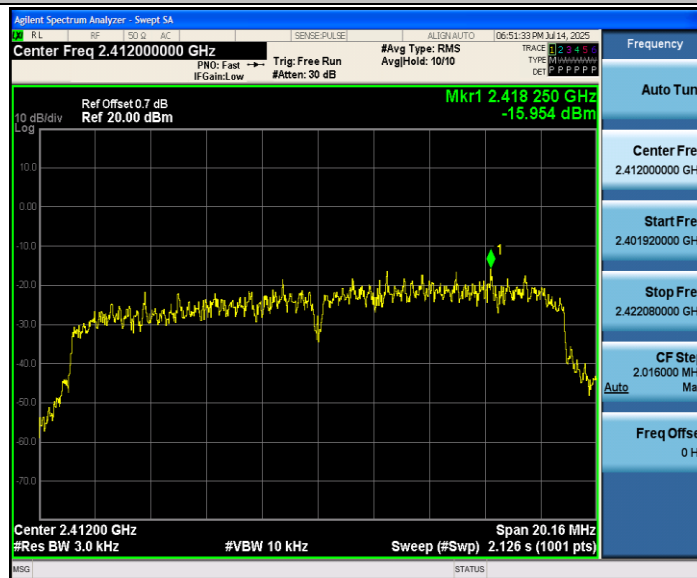
11G_Ant1_2437



11G_Ant1_2462



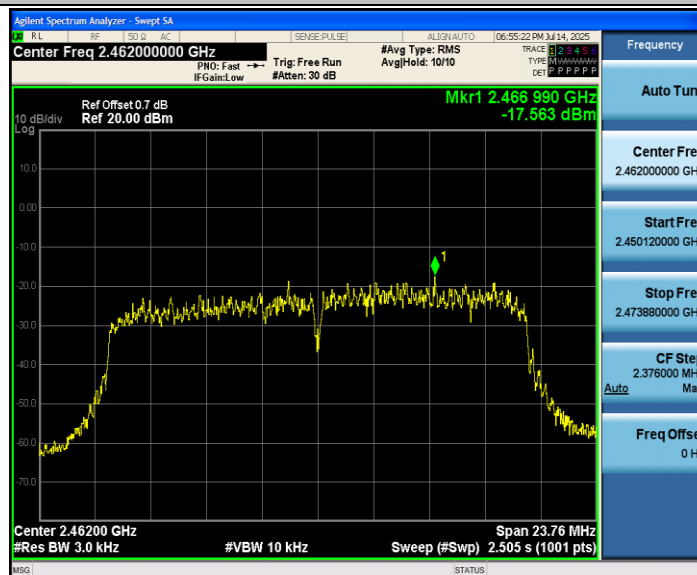
11N20SISO_Ant1_2412



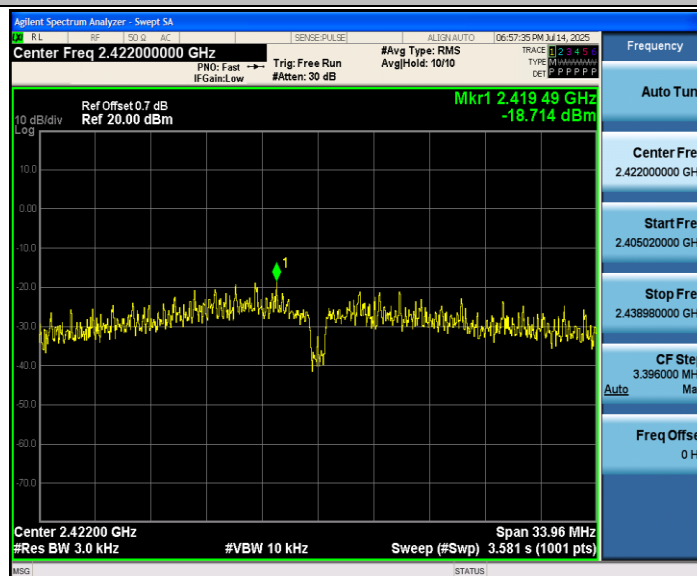
11N20SISO_Ant1_2437



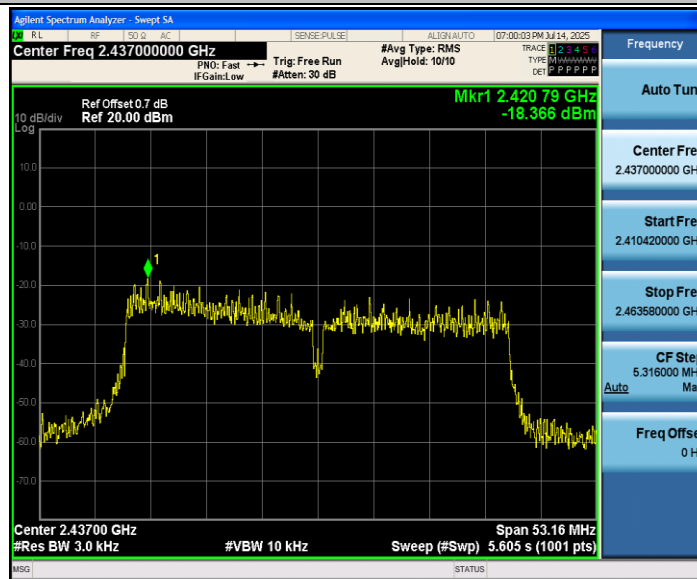
11N20SISO_Ant1_2462



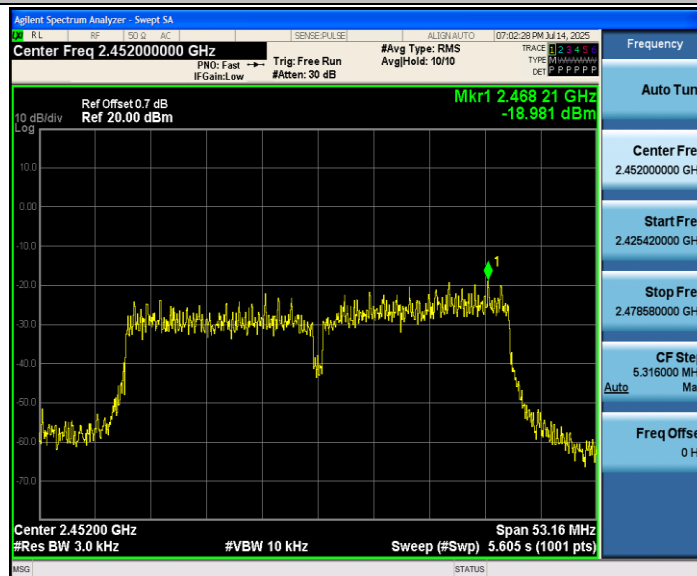
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



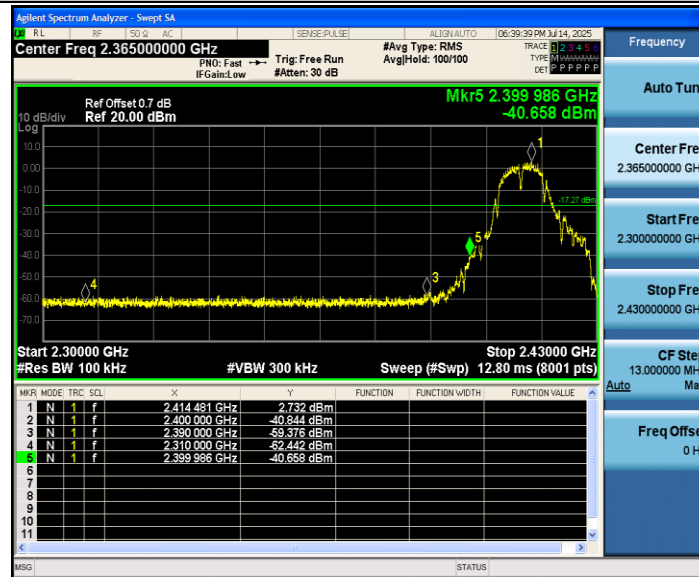
Appendix E: Band edge measurements

Test Result

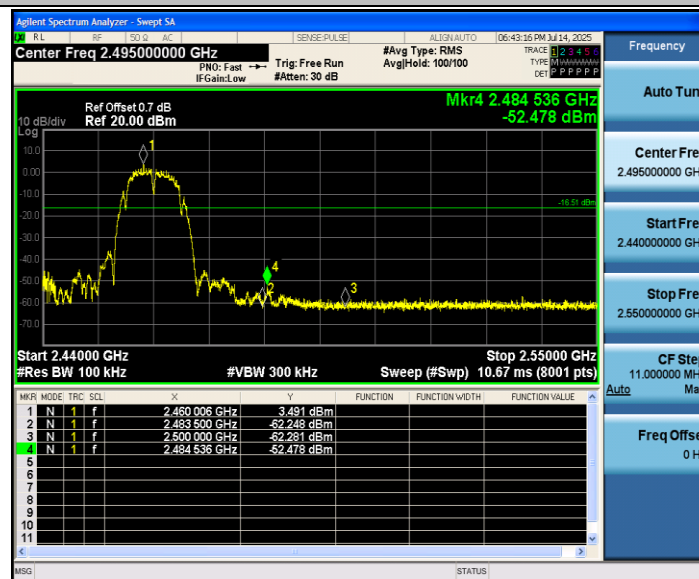
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.73	-40.66	≤-17.27	PASS
		High	2462	3.49	-52.48	≤-16.51	PASS
11G	Ant1	Low	2412	-1.14	-43.26	≤-21.14	PASS
		High	2462	-2.29	-53.37	≤-22.29	PASS
11N20SISO	Ant1	Low	2412	-1.05	-38.53	≤-21.05	PASS
		High	2462	-2.40	-49.24	≤-22.4	PASS
11N40SISO	Ant1	Low	2422	-3.36	-43.34	≤-23.36	PASS
		High	2452	-4.08	-42.05	≤-24.08	PASS

Test Graphs

11B_Ant1_Low_2412



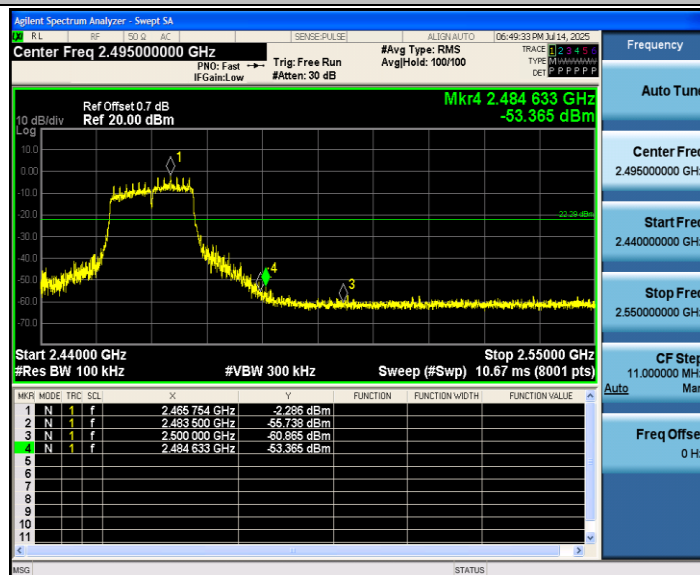
11B_Ant1_High_2462



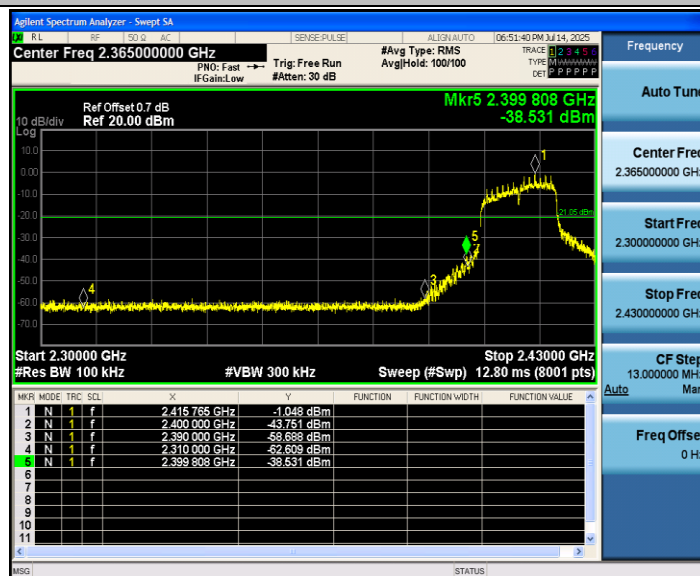
11G_Ant1_Low_2412



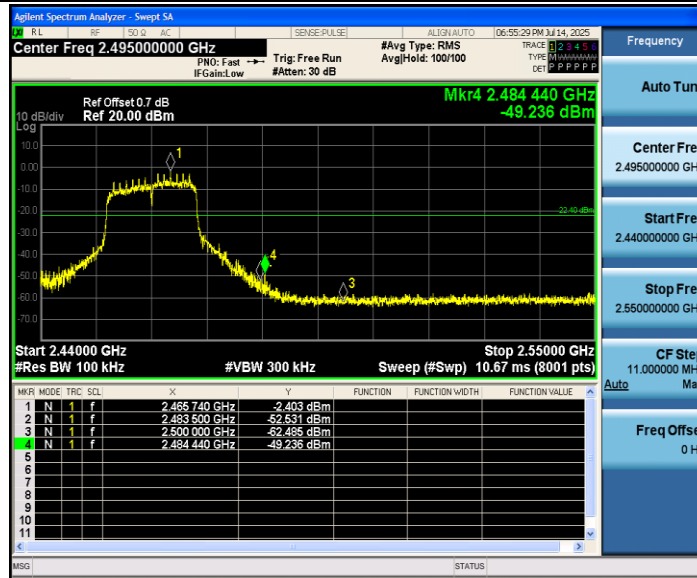
11G_Ant1_High_2462



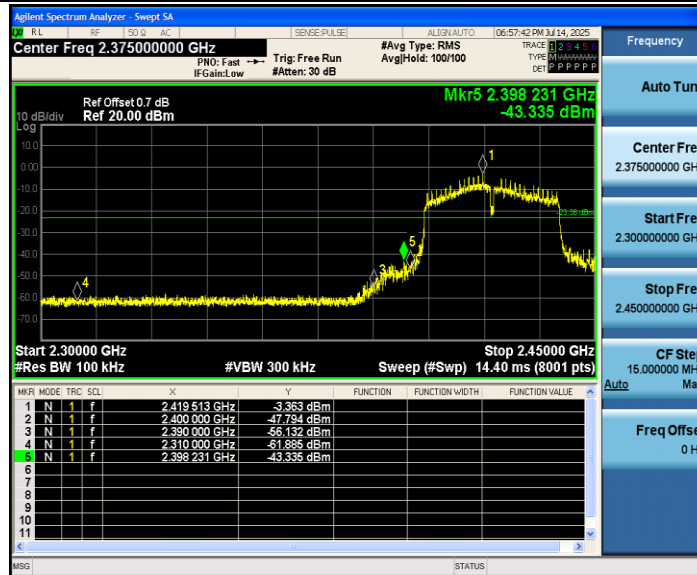
11N20SISO_Ant1_Low_2412



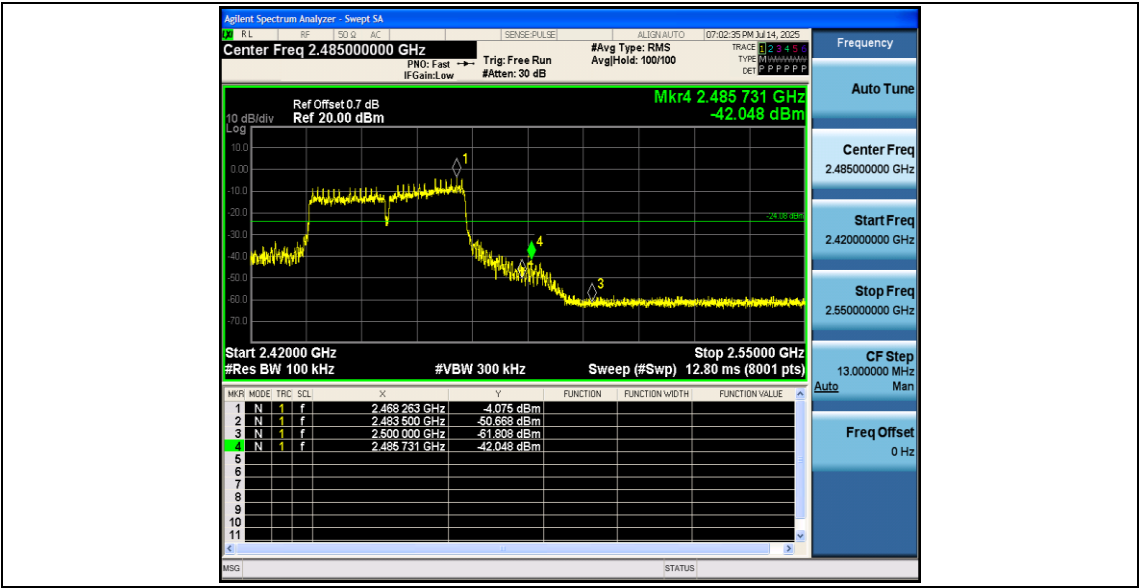
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

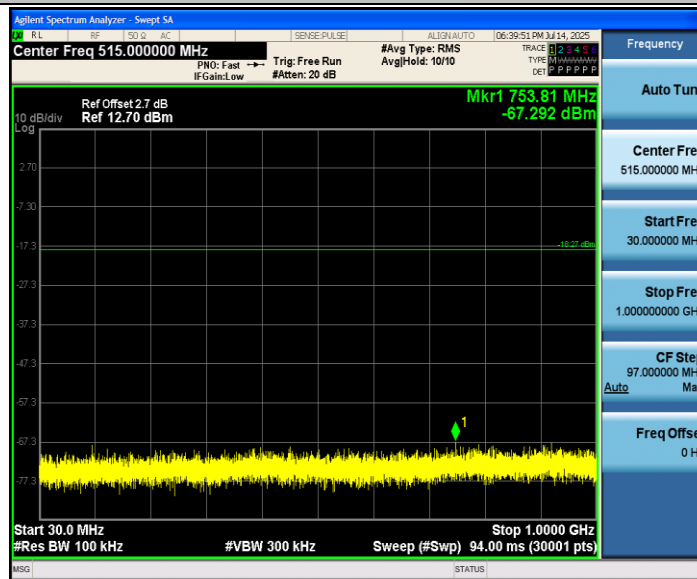
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.73	1.73	---	PASS
			30~1000	1.73	-67.29	≤-18.27	PASS
			1000~26500	1.73	-40.7	≤-18.27	PASS
		2437	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-68	≤-18.99	PASS
			1000~26500	1.01	-40.52	≤-18.99	PASS
		2462	Reference	2.76	2.76	---	PASS
			30~1000	2.76	-66.62	≤-17.24	PASS
			1000~26500	2.76	-42.63	≤-17.24	PASS
11G	Ant1	2412	Reference	-1.57	-1.57	---	PASS
			30~1000	-1.57	-67.57	≤-21.57	PASS
			1000~26500	-1.57	-48.06	≤-21.57	PASS
		2437	Reference	-4.36	-4.36	---	PASS
			30~1000	-4.36	-67.86	≤-24.36	PASS
			1000~26500	-4.36	-45.95	≤-24.36	PASS
		2462	Reference	-2.96	-2.96	---	PASS
			30~1000	-2.96	-67.64	≤-22.96	PASS
			1000~26500	-2.96	-50.64	≤-22.96	PASS
11N20SISO	Ant1	2412	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-67.3	≤-21.61	PASS
			1000~26500	-1.61	-50.54	≤-21.61	PASS
		2437	Reference	-2.99	-2.99	---	PASS
			30~1000	-2.99	-67.79	≤-22.99	PASS
			1000~26500	-2.99	-47.79	≤-22.99	PASS
		2462	Reference	-2.33	-2.33	---	PASS
			30~1000	-2.33	-67.48	≤-22.33	PASS
			1000~26500	-2.33	-47.58	≤-22.33	PASS
11N40SISO	Ant1	2422	Reference	-4.87	-4.87	---	PASS
			30~1000	-4.87	-67.13	≤-24.87	PASS
			1000~26500	-4.87	-51.34	≤-24.87	PASS
		2437	Reference	-4.19	-4.19	---	PASS
			30~1000	-4.19	-67.74	≤-24.19	PASS
			1000~26500	-4.19	-48.81	≤-24.19	PASS
		2452	Reference	-4.38	-4.38	---	PASS
			30~1000	-4.38	-66.66	≤-24.38	PASS
			1000~26500	-4.38	-54.47	≤-24.38	PASS

Test Graphs

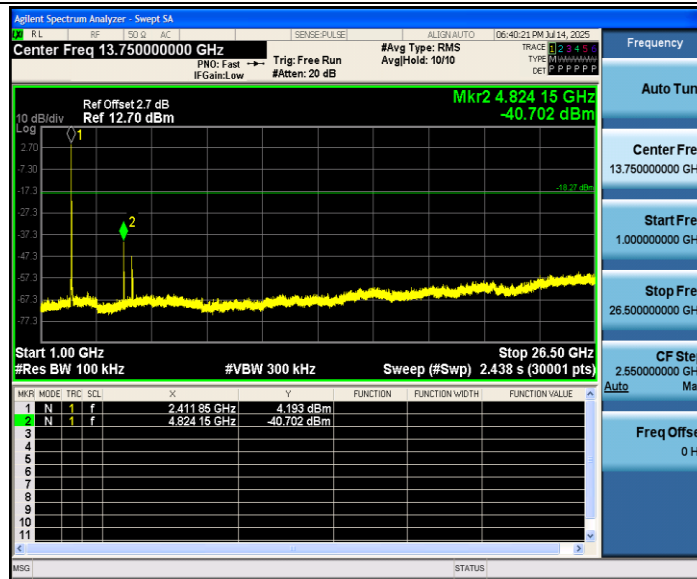
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



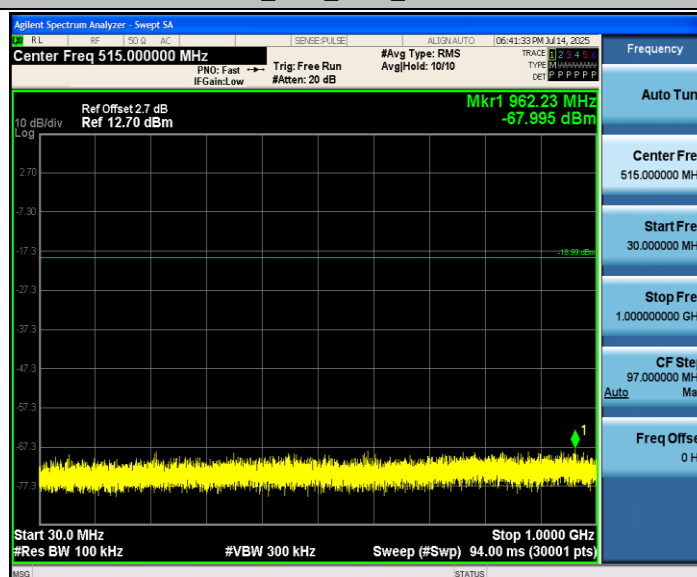
11B_Ant1_2412_1000~26500



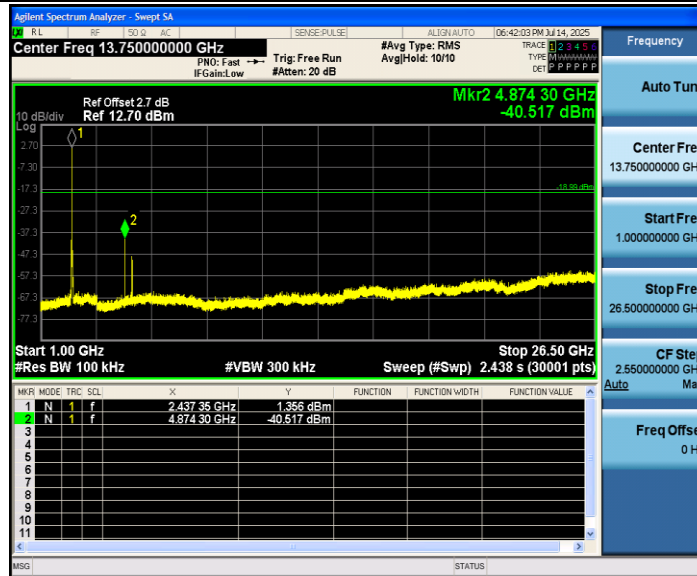
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



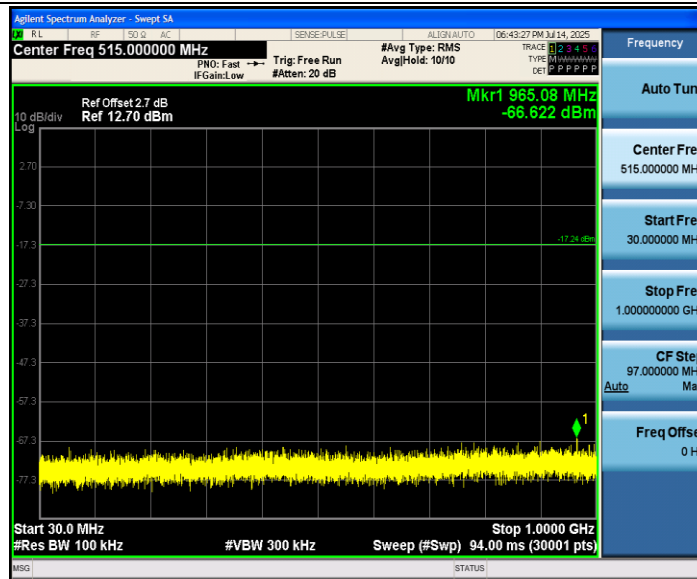
11B_Ant1_2437_1000~26500



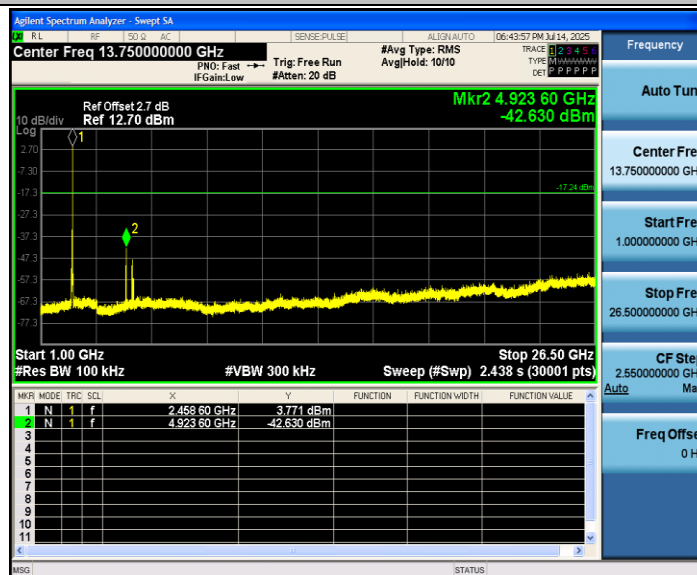
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



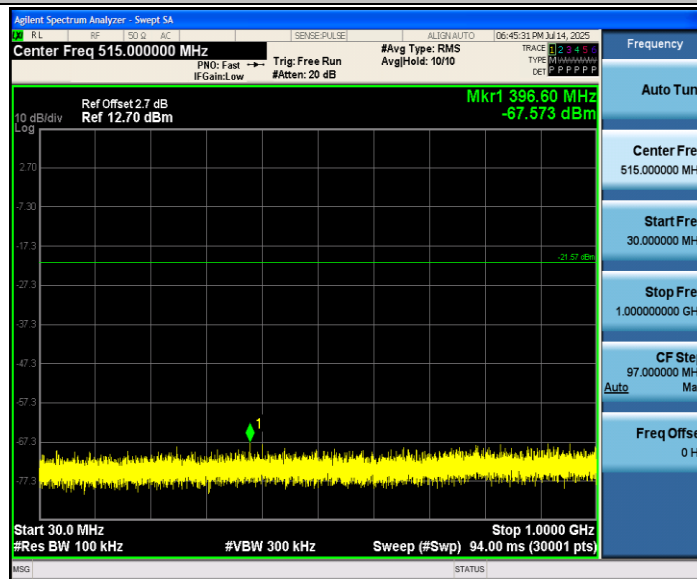
11B_Ant1_2462_1000~26500



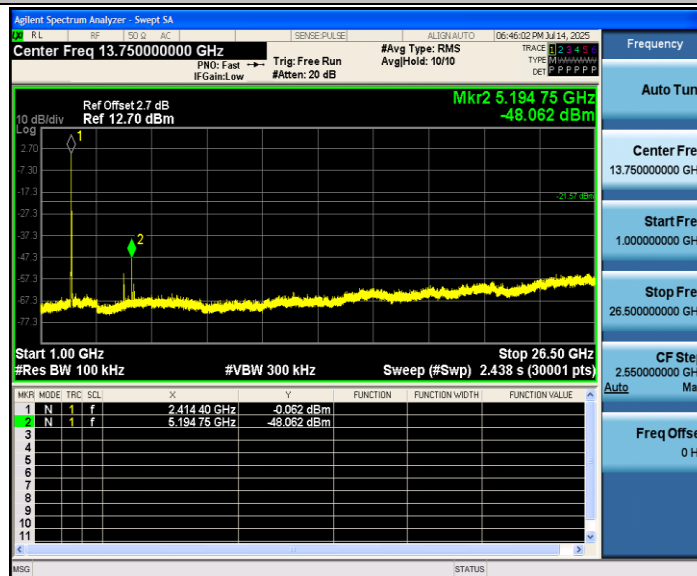
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



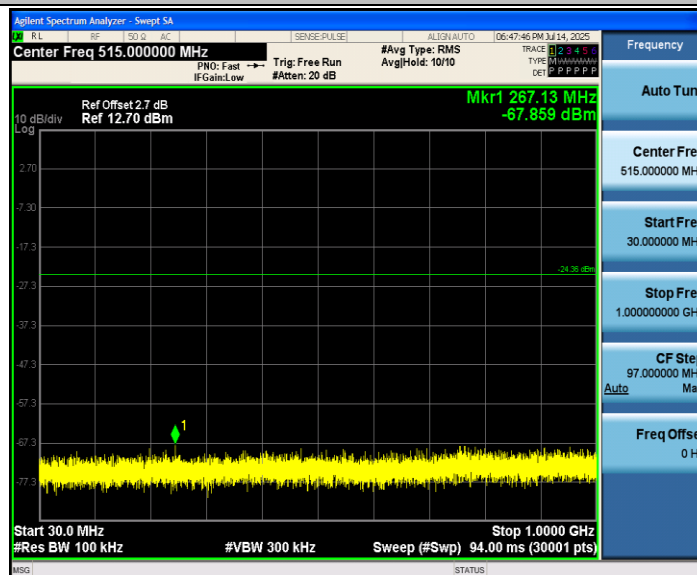
11G_Ant1_2412_1000~26500



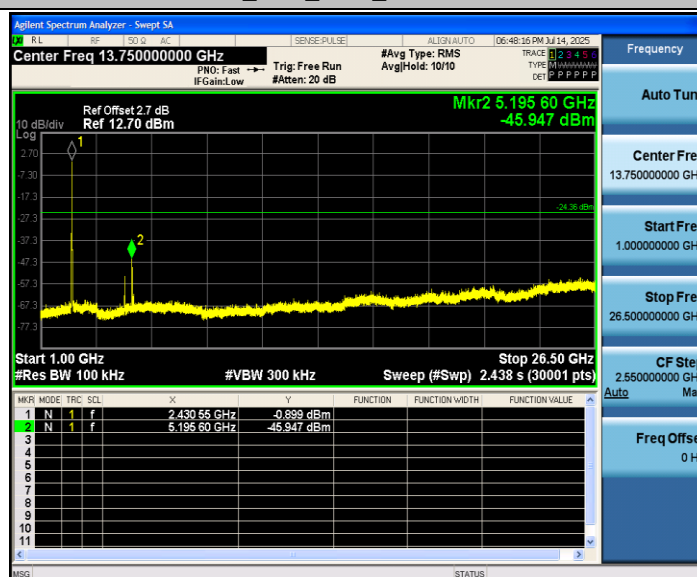
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



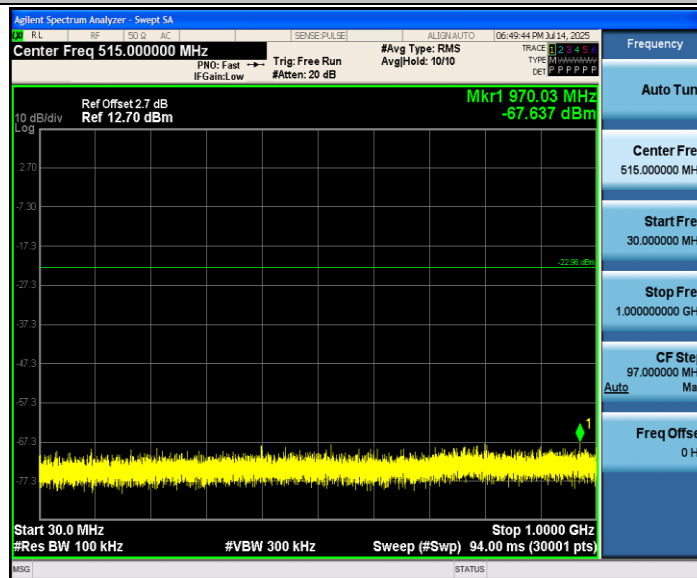
11G_Ant1_2437_1000~26500



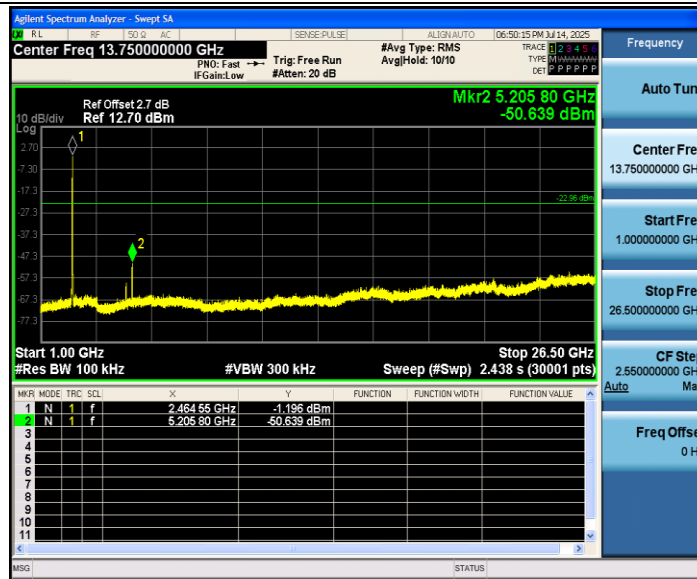
11G_Ant1_2462_0~Reference



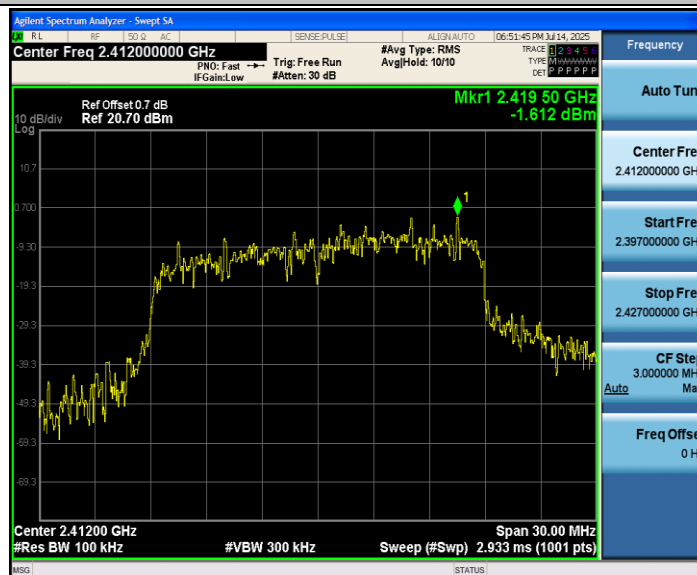
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

