

Appendix RF Test Data for WLAN

FCC ID : 2ATOW-TD-VD110X

Company: : SHENZHEN TVT DIGITAL TECHNOLOGY CO.,LTD.

EUT : Video Intercom Door Station

Model Number : TE-VD1100S1-CEPW, TE-VD1108S1-CEPW

Report No. : CTA25052100301

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	9.800	2407.240	2417.040	0.5	PASS
		2437	8.560	2432.480	2441.040	0.5	PASS
		2462	9.520	2457.000	2466.520	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.480	2429.440	2444.920	0.5	PASS
		2462	15.720	2454.440	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.800	2403.960	2420.760	0.5	PASS
		2437	15.920	2429.440	2445.360	0.5	PASS
		2462	16.200	2454.440	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.480	2439.920	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.520	2434.080	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



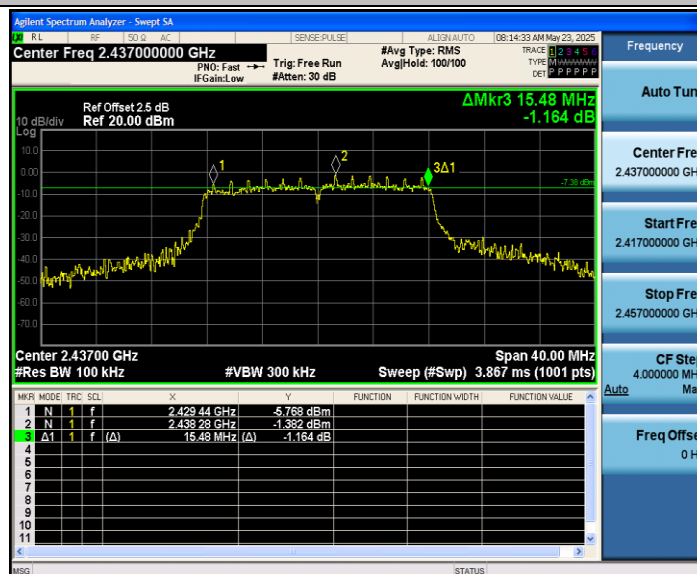
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



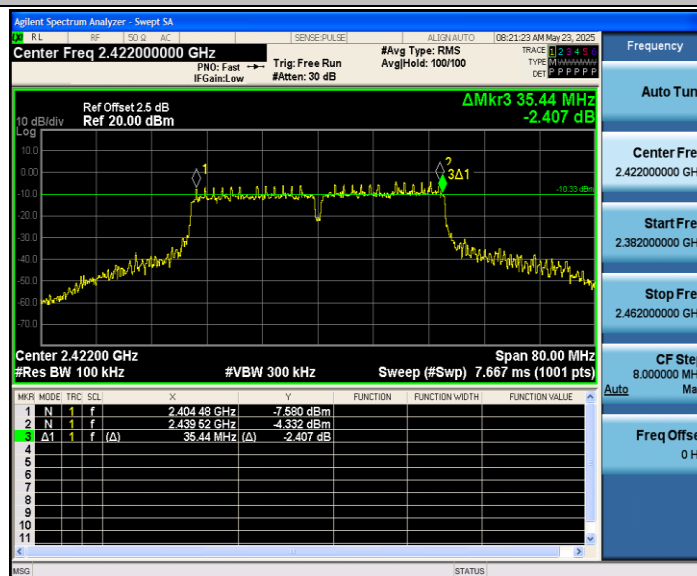
11N20SISO_Ant1_2437



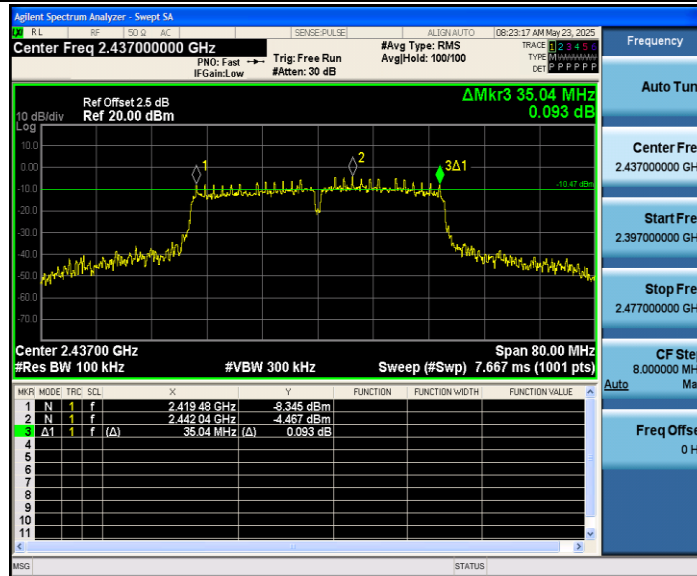
11N20SISO_Ant1_2462



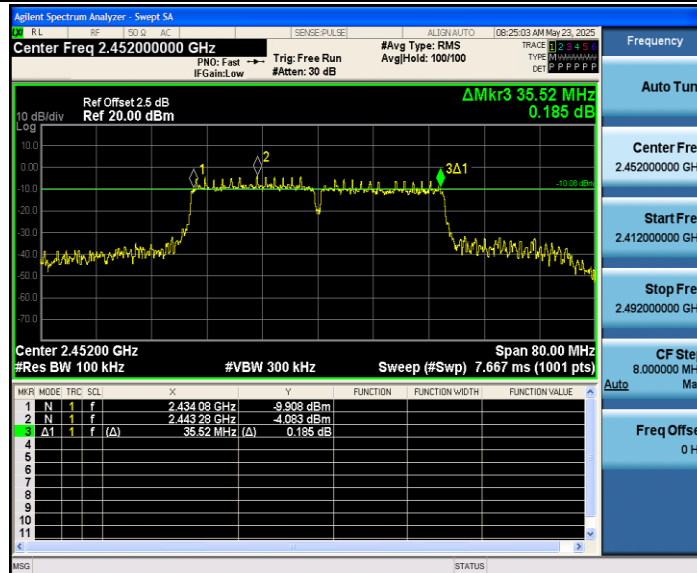
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



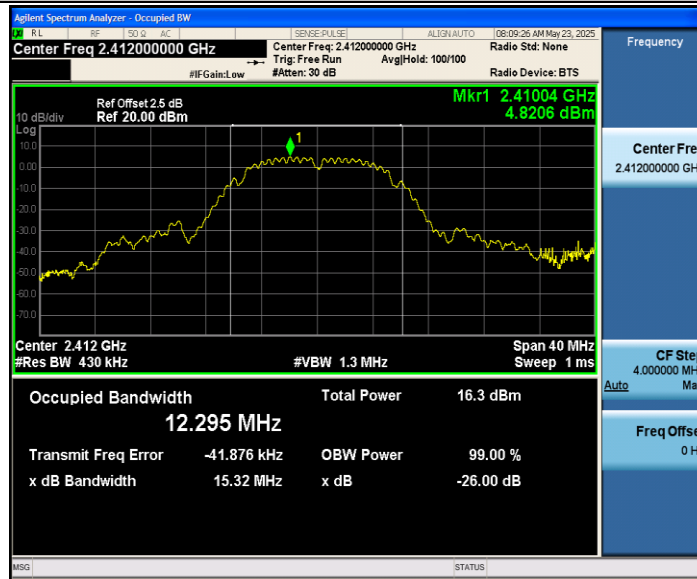
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.295	2405.8106	2418.1056	---	---
		2437	11.551	2431.0079	2442.5589	---	---
		2462	12.861	2455.3915	2468.2525	---	---
11G	Ant1	2412	16.783	2403.7664	2420.5494	---	---
		2437	16.643	2428.8002	2445.4432	---	---
		2462	16.837	2453.6889	2470.5259	---	---
11N20SISO	Ant1	2412	17.878	2403.2453	2421.1233	---	---
		2437	17.654	2428.2781	2445.9321	---	---
		2462	18.010	2453.1608	2471.1708	---	---
11N40SISO	Ant1	2422	36.357	2404.1030	2440.4600	---	---
		2437	35.976	2419.0987	2455.0747	---	---
		2452	36.416	2433.8541	2470.2701	---	---

Test Graphs

11B_Ant1_2412



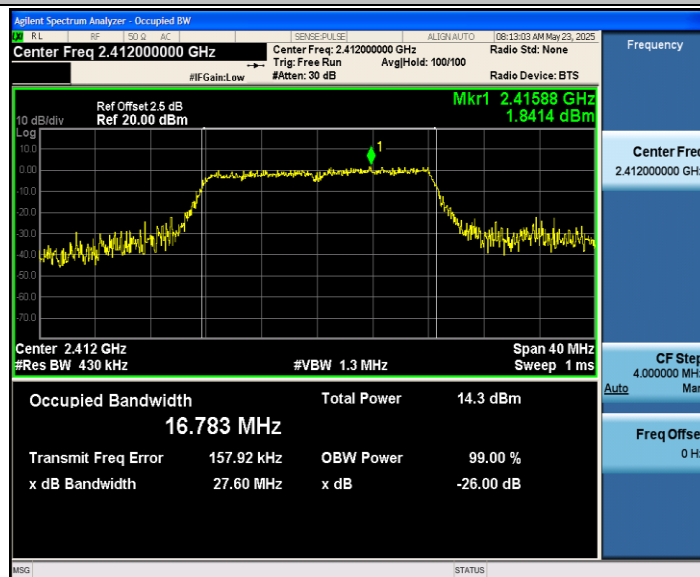
11B_Ant1_2437



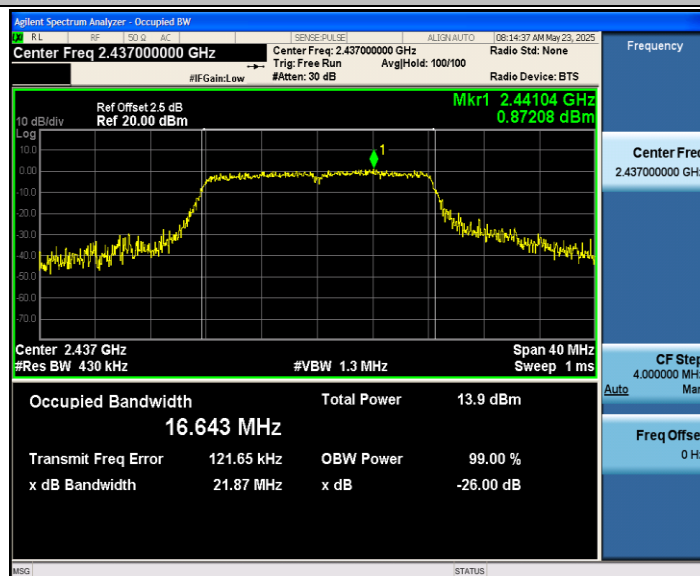
11B_Ant1_2462



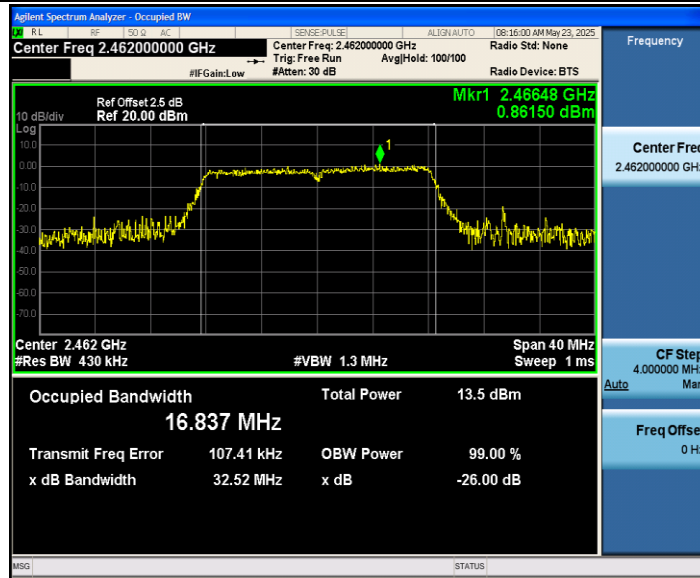
11G_Ant1_2412



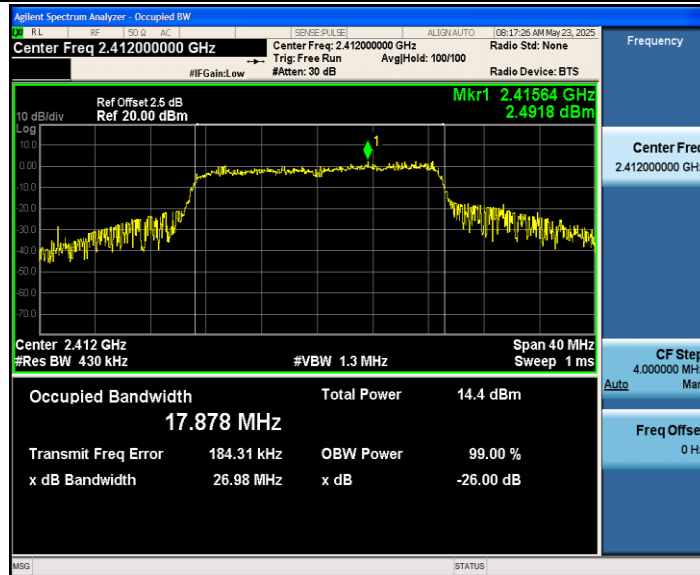
11G_Ant1_2437



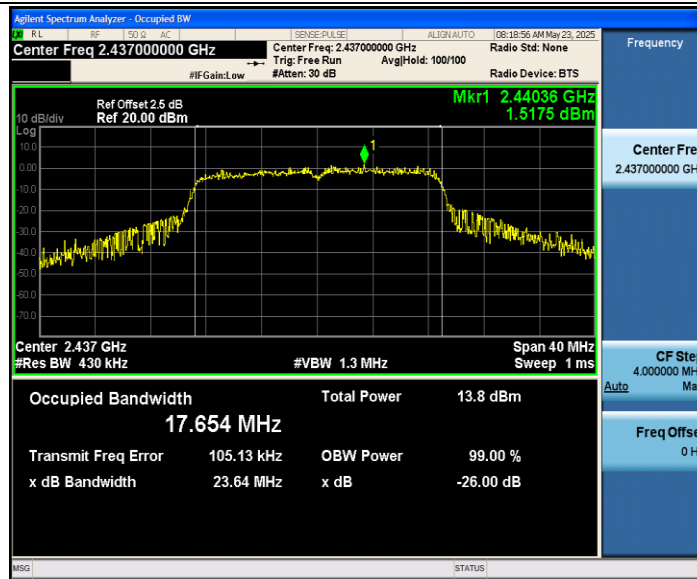
11G_Ant1_2462



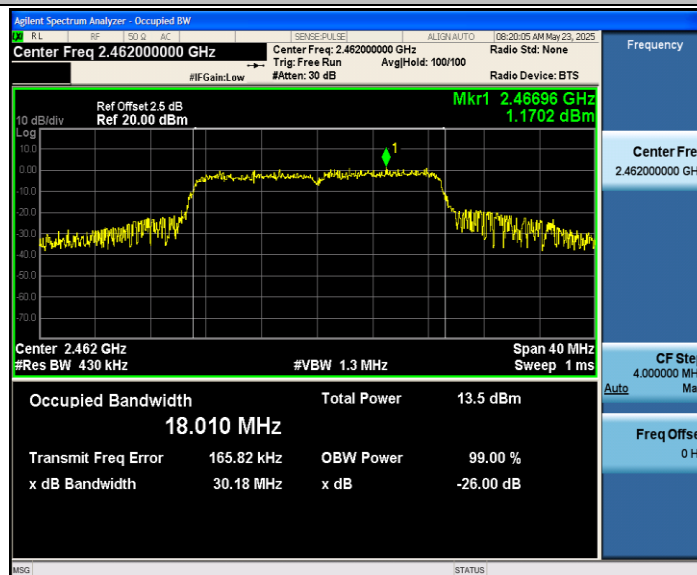
11N20SISO_Ant1_2412



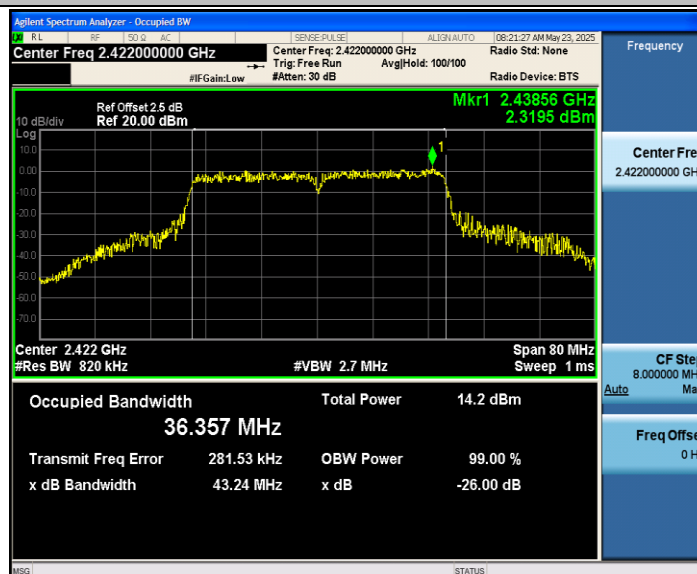
11N20SISO_Ant1_2437



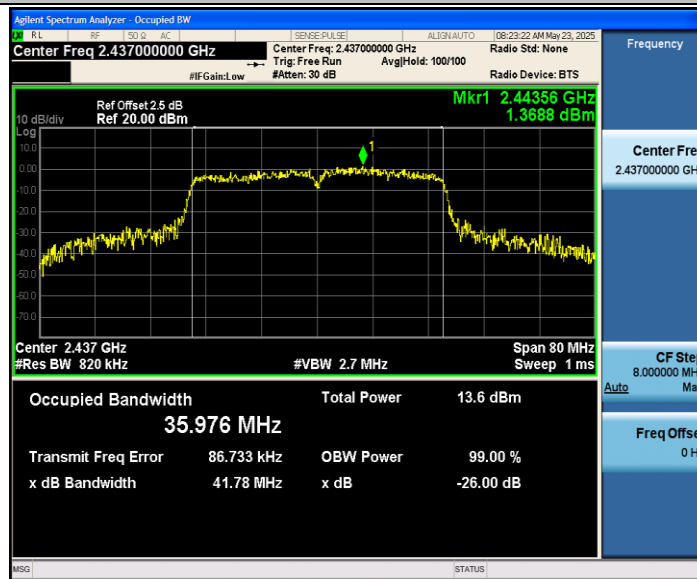
11N20SISO_Ant1_2462



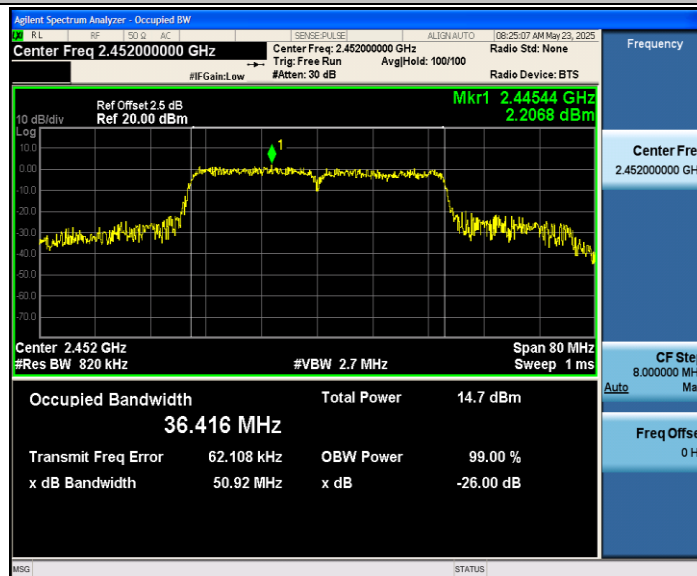
11N40SISO_Ant1_2422



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	16.23	≤30.00	PASS
		2437	14.87	≤30.00	PASS
		2462	15.93	≤30.00	PASS
11G	Ant1	2412	14.91	≤30.00	PASS
		2437	14.60	≤30.00	PASS
		2462	14.01	≤30.00	PASS
11N20SISO	Ant1	2412	15.02	≤30.00	PASS
		2437	14.35	≤30.00	PASS
		2462	13.99	≤30.00	PASS
11N40SISO	Ant1	2422	14.25	≤30.00	PASS
		2437	13.79	≤30.00	PASS
		2452	14.75	≤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	-9.08	≤8.00	PASS
		2437	-11.38	≤8.00	PASS
		2462	-9.38	≤8.00	PASS
11G	Ant1	2412	-16.51	≤8.00	PASS
		2437	-17.27	≤8.00	PASS
		2462	-17.82	≤8.00	PASS
11N20SISO	Ant1	2412	-16.98	≤8.00	PASS
		2437	-17.01	≤8.00	PASS
		2462	-17.87	≤8.00	PASS
11N40SISO	Ant1	2422	-19.65	≤8.00	PASS
		2437	-20.73	≤8.00	PASS
		2452	-20.15	≤8.00	PASS

Test Graphs

11B_Ant1_2412



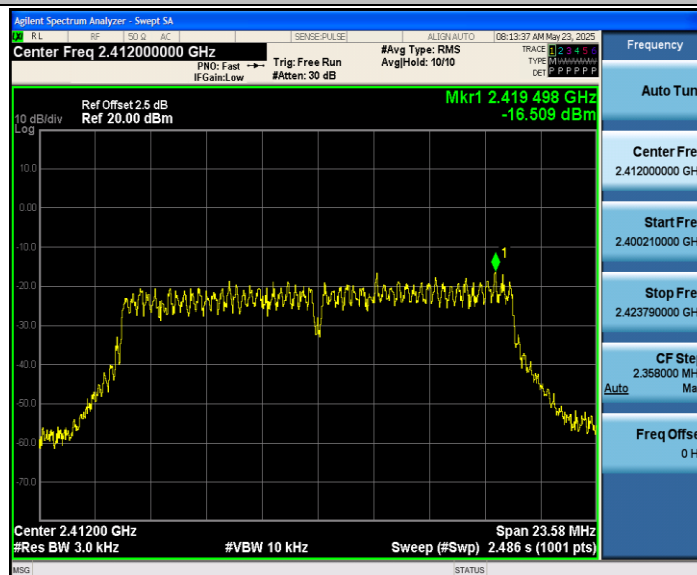
11B_Ant1_2437



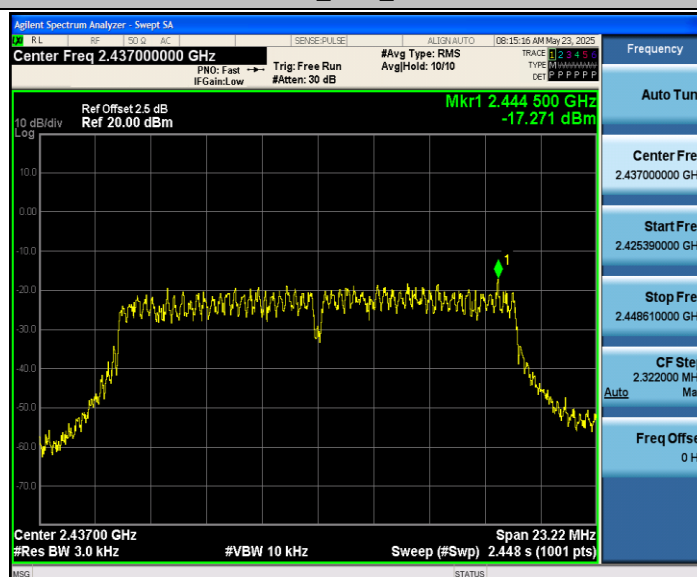
11B_Ant1_2462



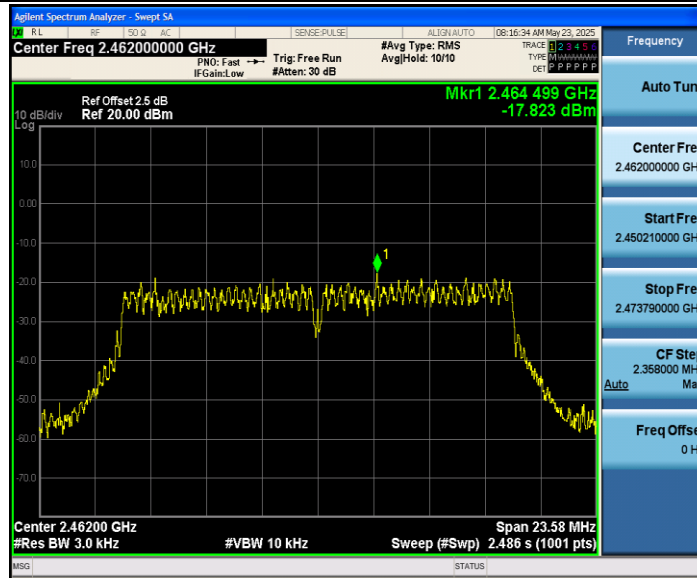
11G_Ant1_2412



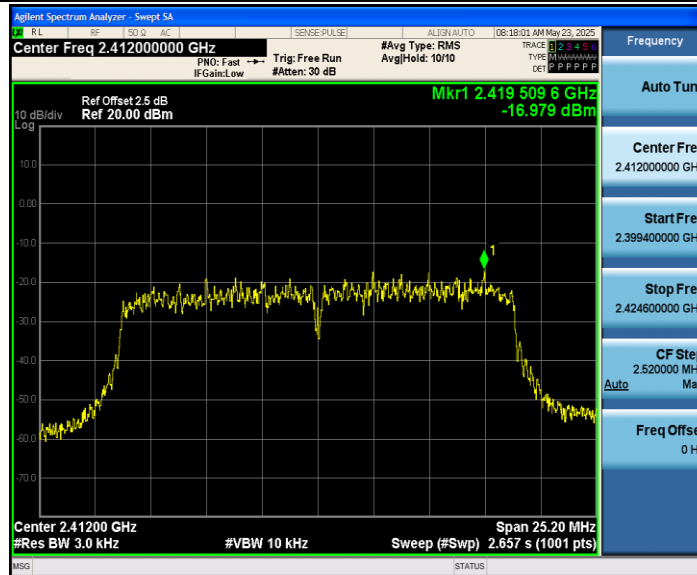
11G_Ant1_2437



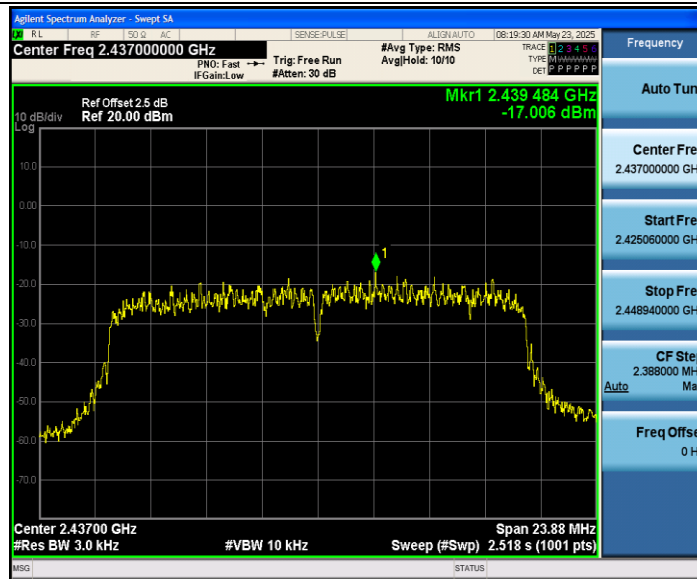
11G_Ant1_2462



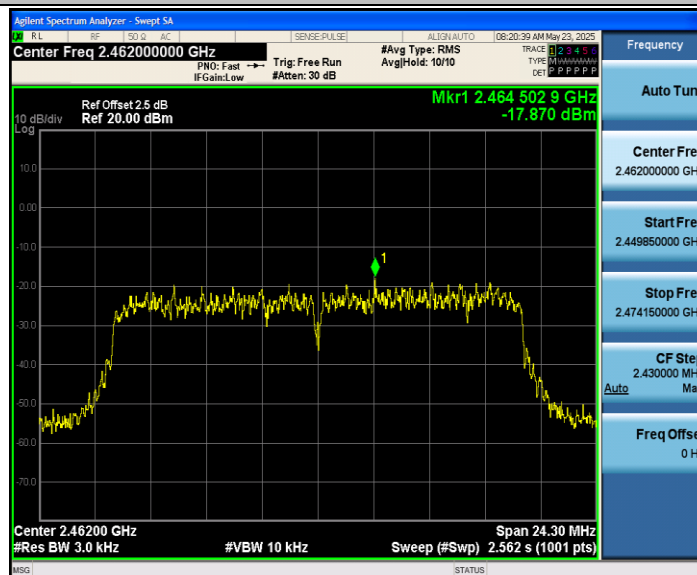
11N20SISO_Ant1_2412



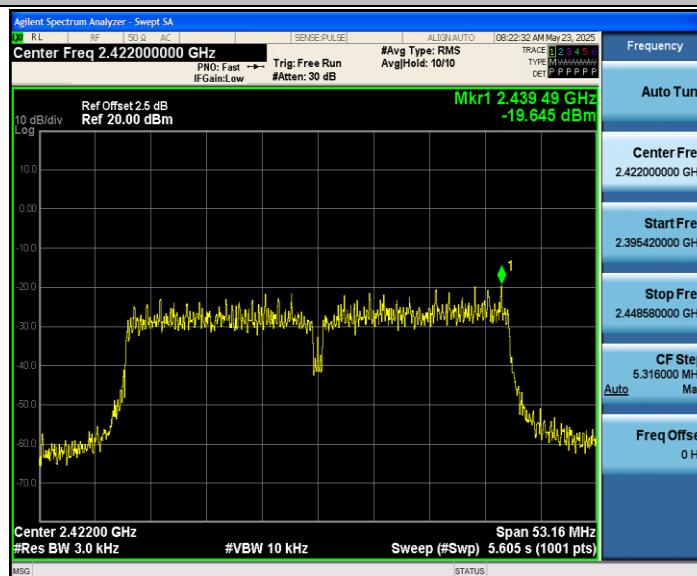
11N20SISO_Ant1_2437



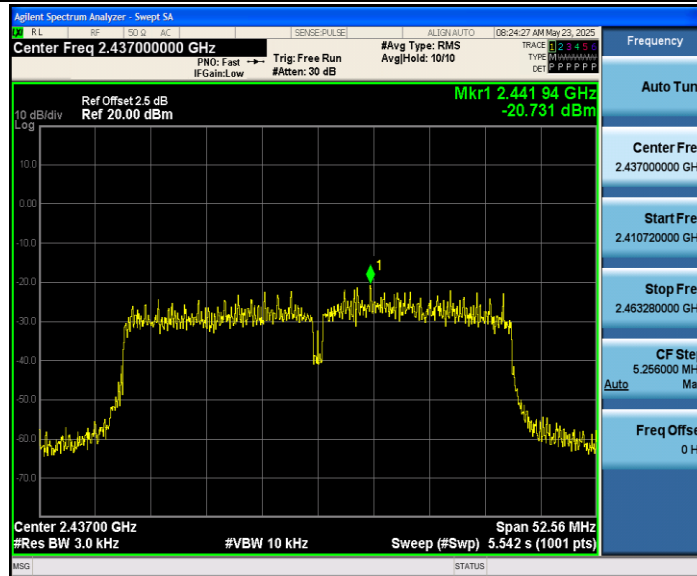
11N20SISO_Ant1_2462



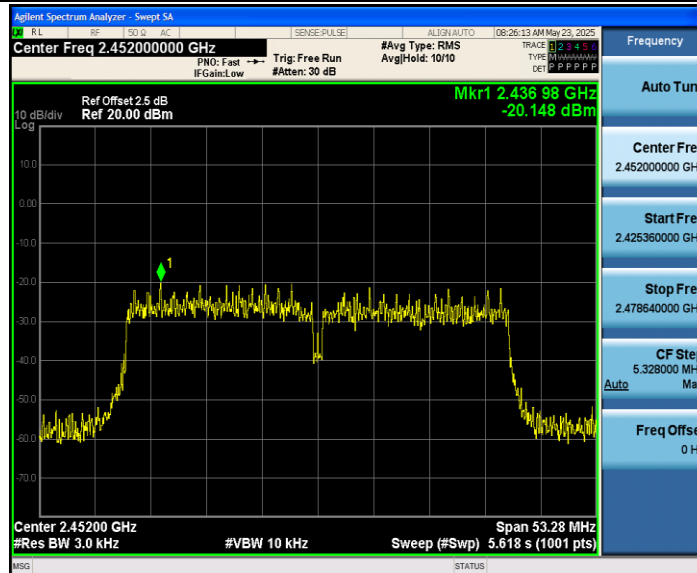
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



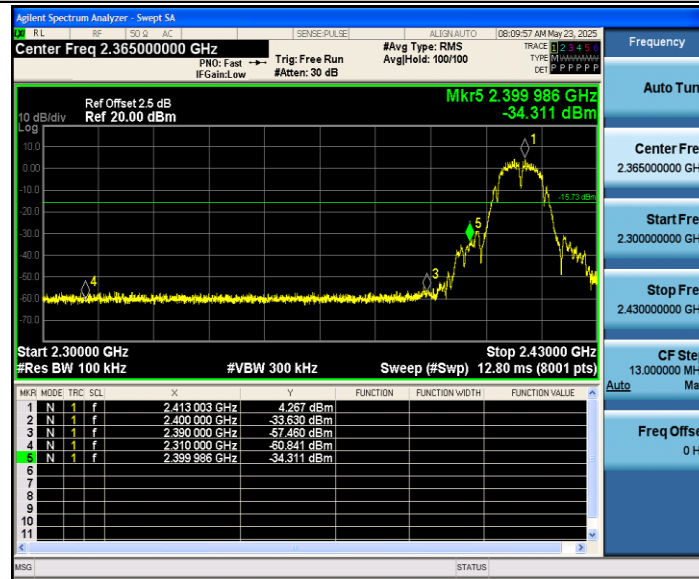
Appendix E: Band edge measurements

Test Result

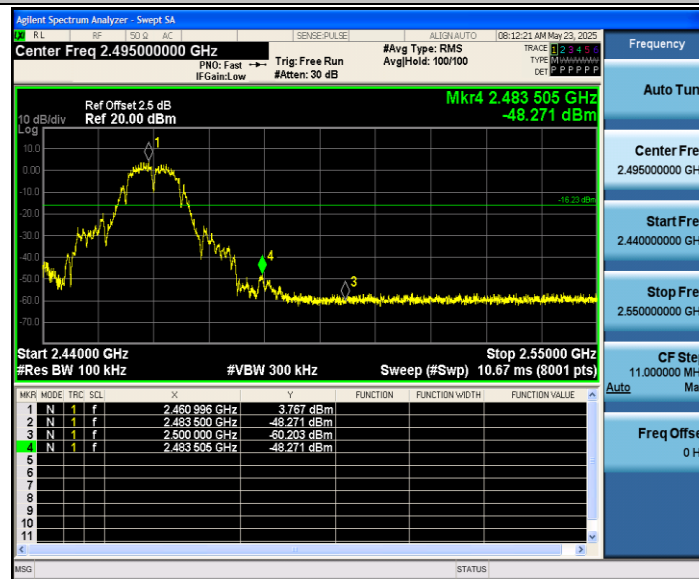
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.27	-34.31	≤-15.73	PASS
		High	2462	3.77	-48.27	≤-16.23	PASS
11G	Ant1	Low	2412	-0.73	-34.8	≤-20.73	PASS
		High	2462	-1.69	-39.59	≤-21.69	PASS
11N20SISO	Ant1	Low	2412	-0.86	-34.5	≤-20.86	PASS
		High	2462	-1.73	-38.06	≤-21.73	PASS
11N40SISO	Ant1	Low	2422	-4.35	-37.16	≤-24.35	PASS
		High	2452	-4.13	-34.7	≤-24.13	PASS

Test Graphs

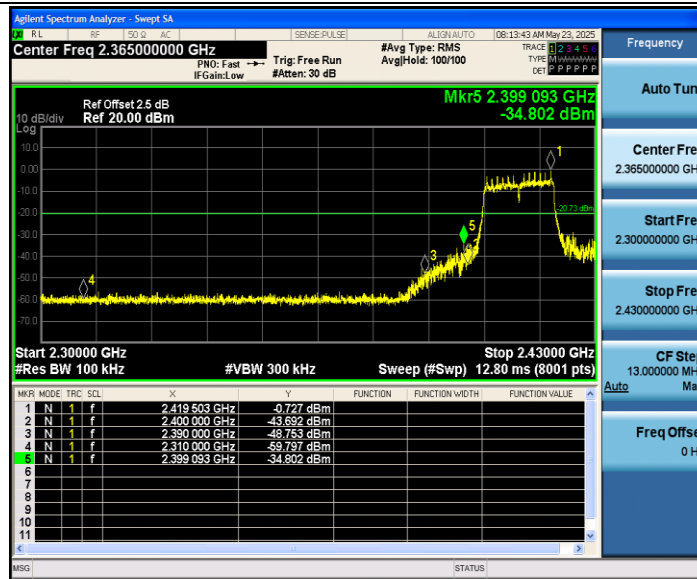
11B_Ant1_Low_2412



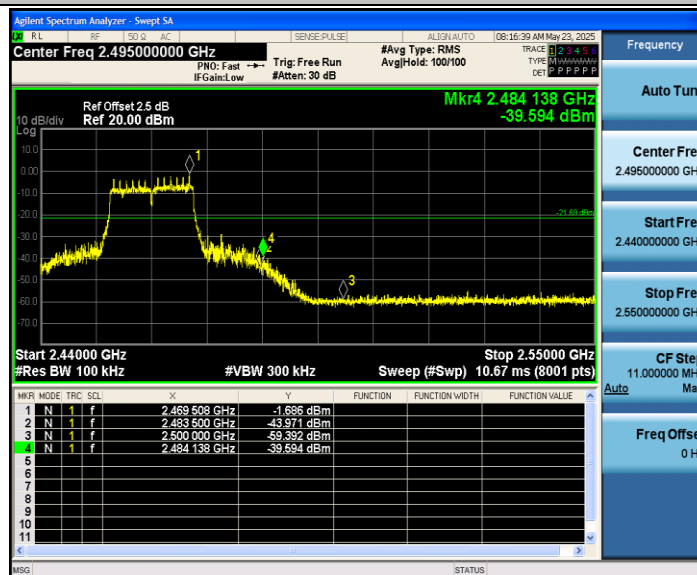
11B_Ant1_High_2462



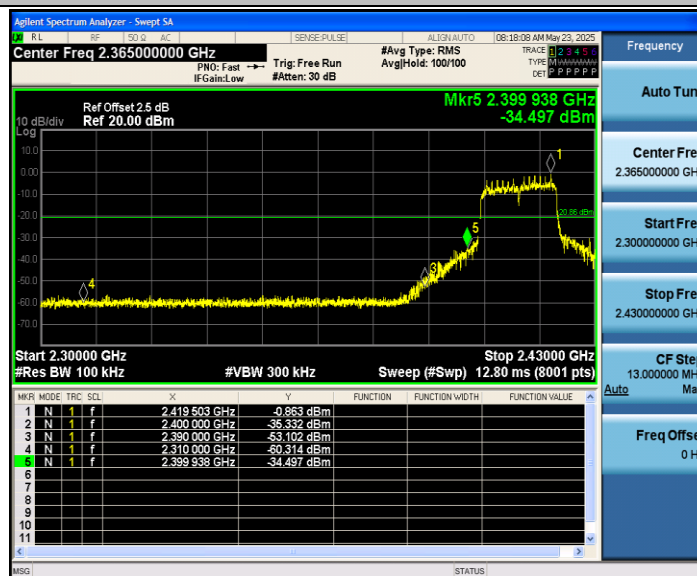
11G_Ant1_Low_2412



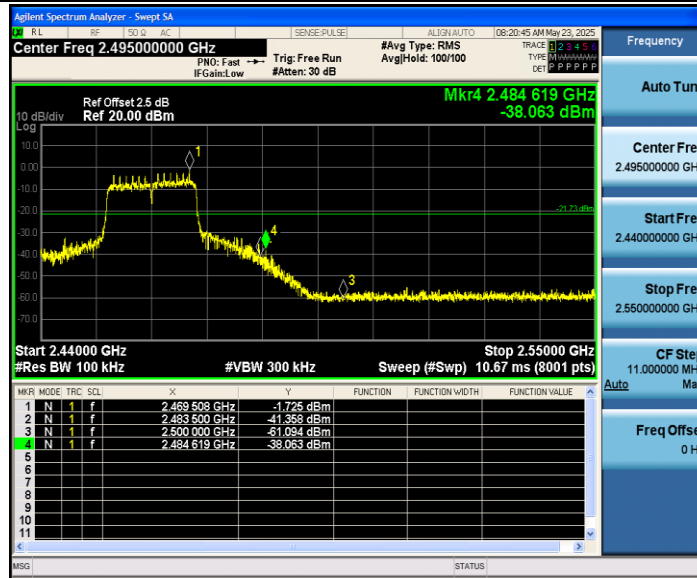
11G_Ant1_High_2462



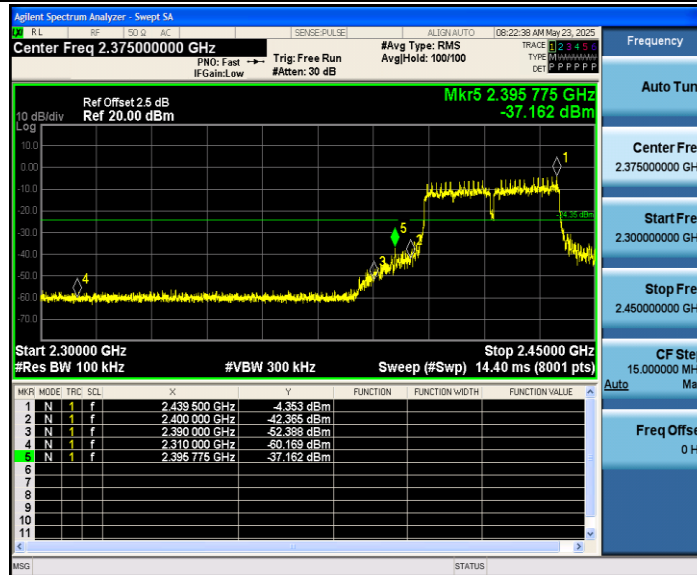
11N20SISO_Ant1_Low_2412



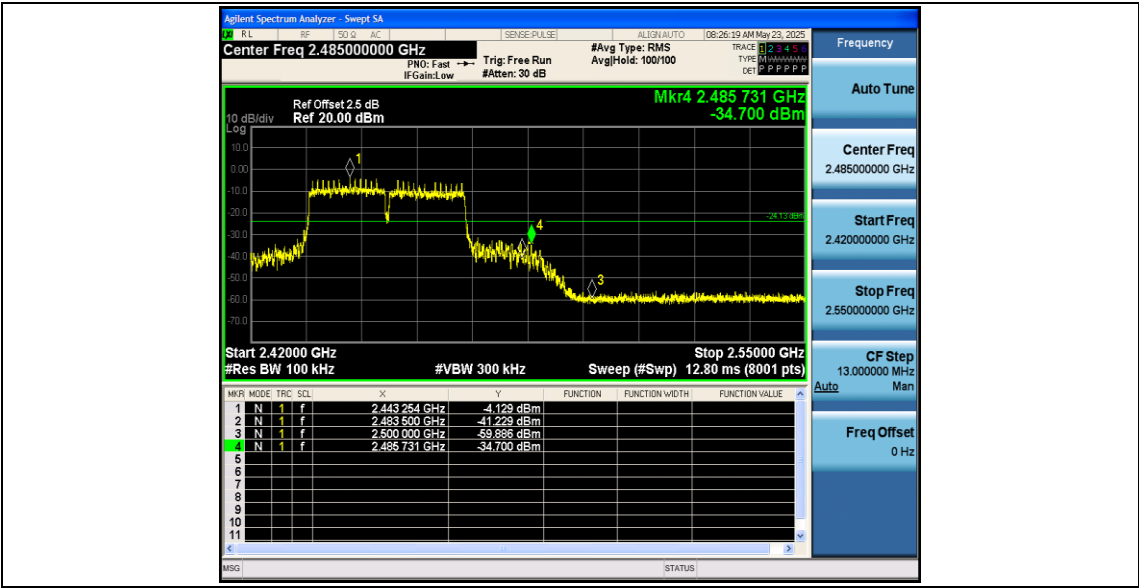
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

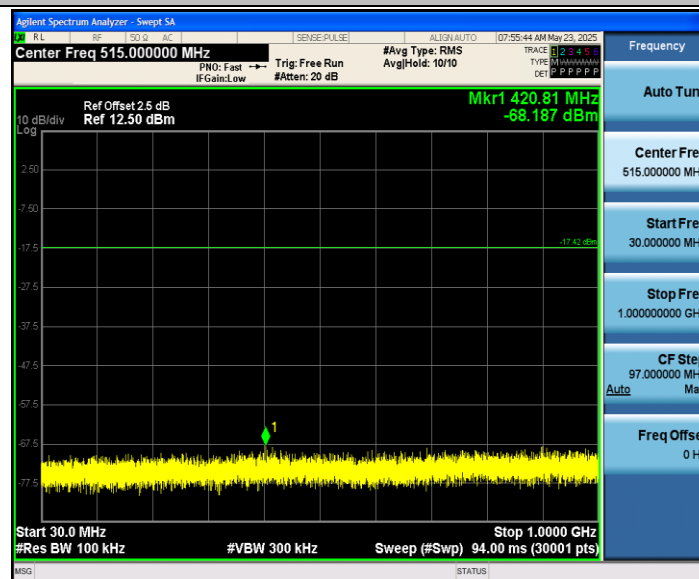
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-68.19	≤-17.42	PASS
			1000~26500	2.58	-38.13	≤-17.42	PASS
		2437	Reference	4.70	4.70	---	PASS
			30~1000	4.70	-67.35	≤-15.3	PASS
			1000~26500	4.70	-36.52	≤-15.3	PASS
		2462	Reference	2.50	2.50	---	PASS
			30~1000	2.50	-67.91	≤-17.5	PASS
			1000~26500	2.50	-30.38	≤-17.5	PASS
11G	Ant1	2412	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-67.98	≤-20.91	PASS
			1000~26500	-0.91	-44.68	≤-20.91	PASS
		2437	Reference	-1.89	-1.89	---	PASS
			30~1000	-1.89	-68.22	≤-21.89	PASS
			1000~26500	-1.89	-46.17	≤-21.89	PASS
		2462	Reference	-2.85	-2.85	---	PASS
			30~1000	-2.85	-67.67	≤-22.85	PASS
			1000~26500	-2.85	-44.14	≤-22.85	PASS
11N20SISO	Ant1	2412	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-67.58	≤-21.65	PASS
			1000~26500	-1.65	-50.82	≤-21.65	PASS
		2437	Reference	-1.37	-1.37	---	PASS
			30~1000	-1.37	-67.5	≤-21.37	PASS
			1000~26500	-1.37	-44.43	≤-21.37	PASS
		2462	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-68.2	≤-21.66	PASS
			1000~26500	-1.66	-42.55	≤-21.66	PASS
11N40SISO	Ant1	2422	Reference	-4.56	-4.56	---	PASS
			30~1000	-4.56	-67.68	≤-24.56	PASS
			1000~26500	-4.56	-50.04	≤-24.56	PASS
		2437	Reference	-4.72	-4.72	---	PASS
			30~1000	-4.72	-67.73	≤-24.72	PASS
			1000~26500	-4.72	-46.24	≤-24.72	PASS
		2452	Reference	-5.06	-5.06	---	PASS
			30~1000	-5.06	-67.2	≤-25.06	PASS
			1000~26500	-5.06	-49.1	≤-25.06	PASS

Test Graphs

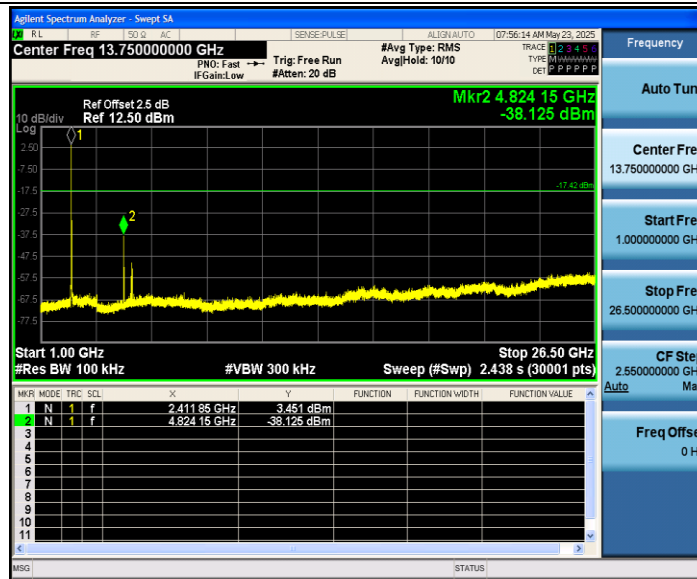
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



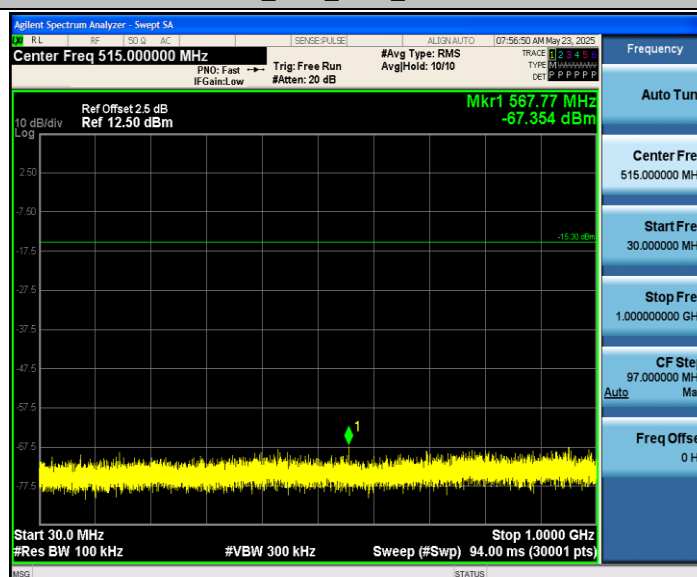
11B_Ant1_2412_1000~26500



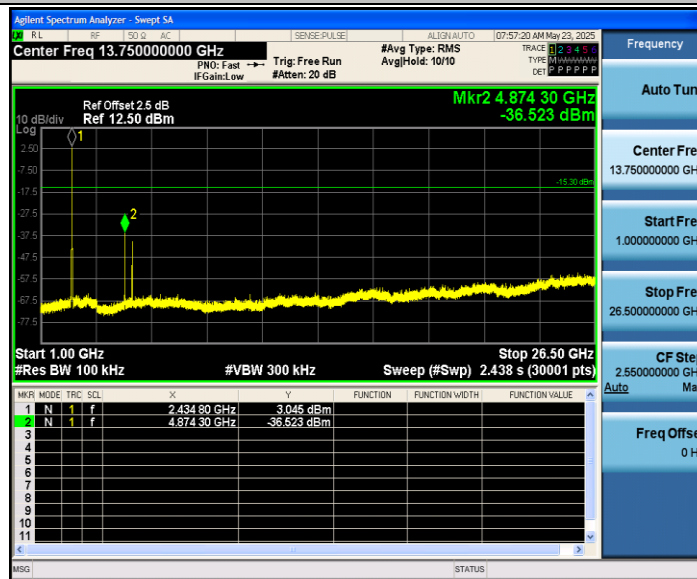
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



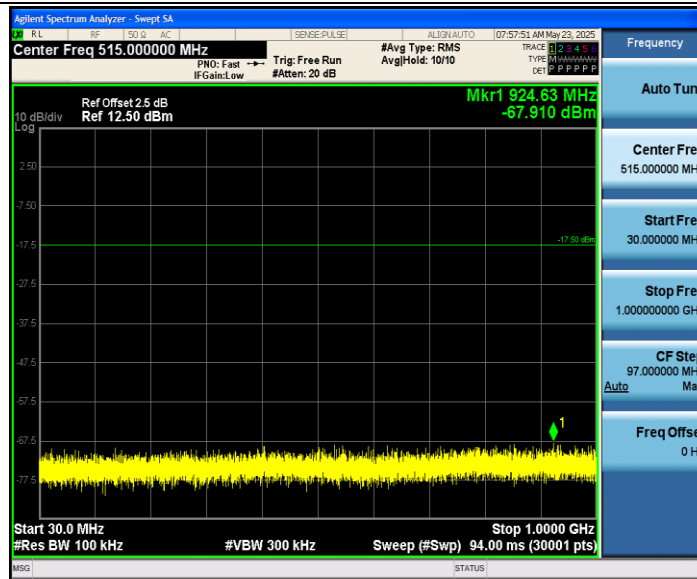
11B_Ant1_2437_1000~26500



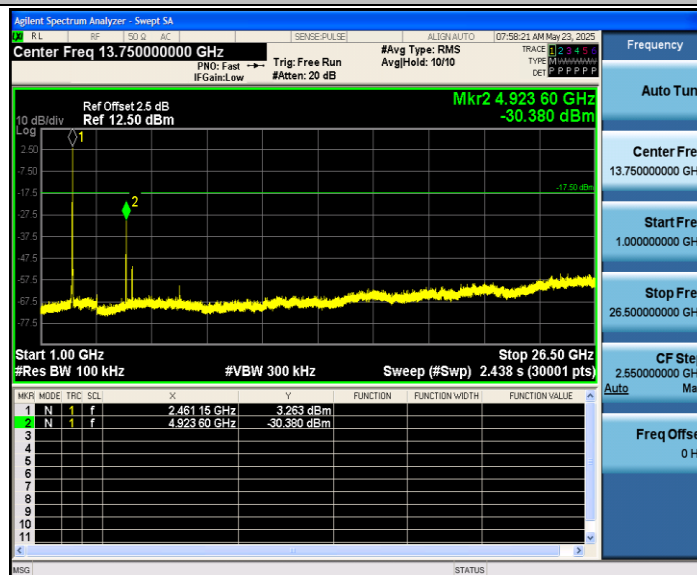
11B_Ant1_2462_0~Reference



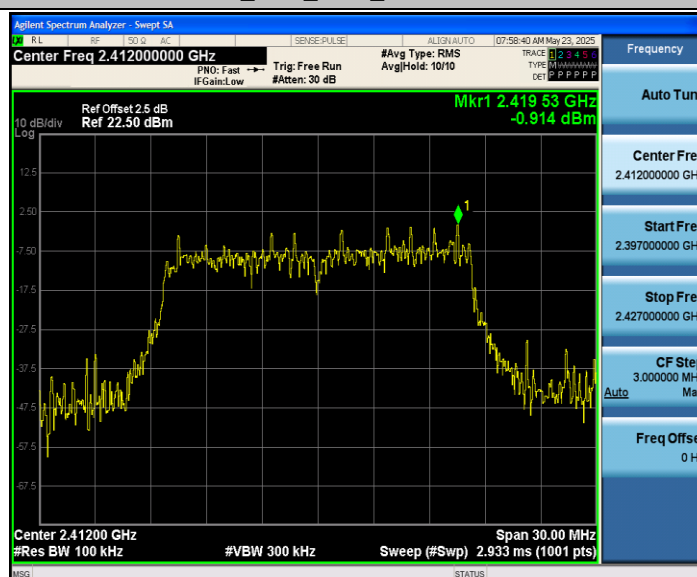
11B_Ant1_2462_30~1000



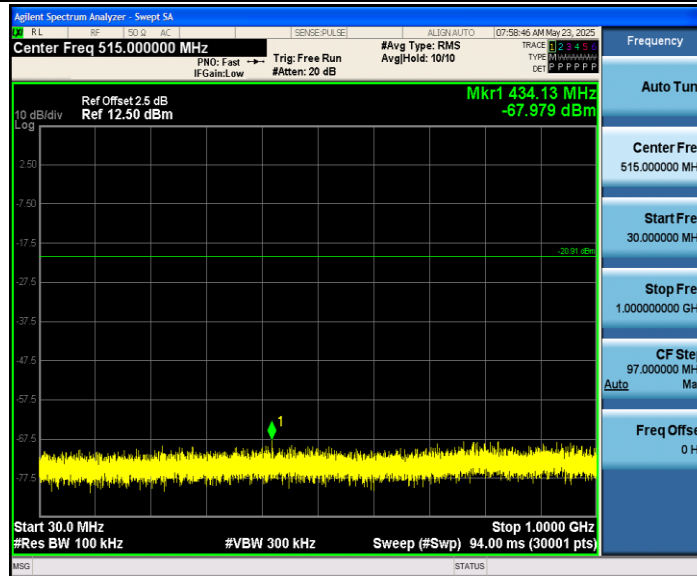
11B_Ant1_2462_1000~26500



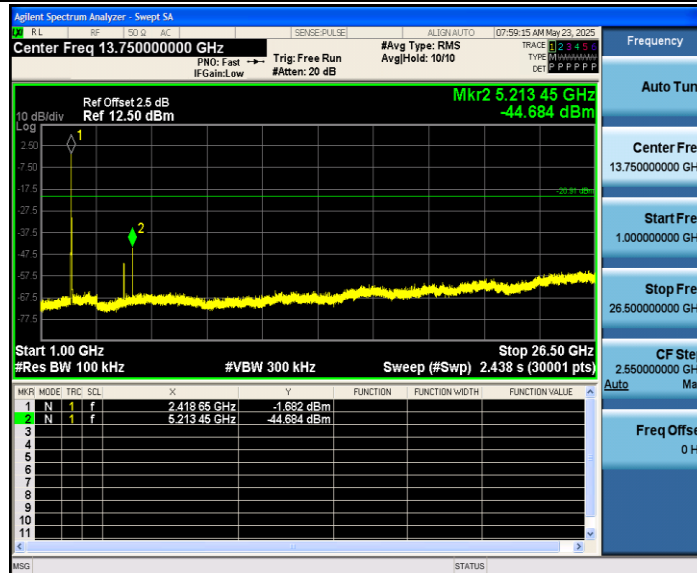
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



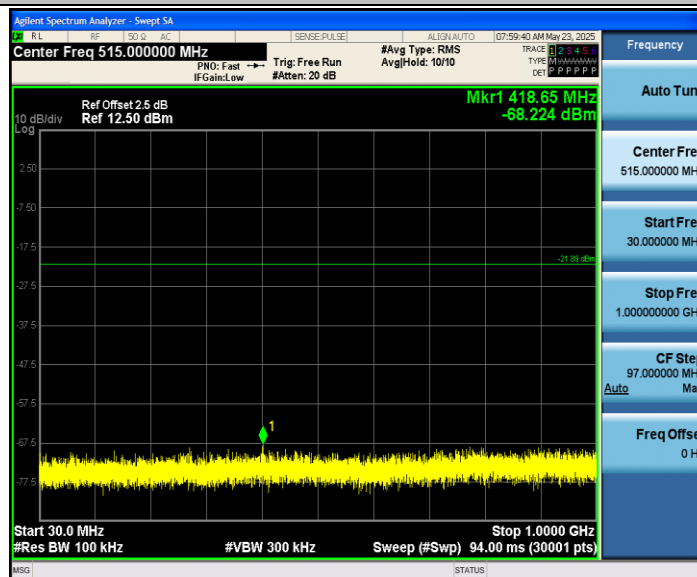
11G_Ant1_2412_1000~26500



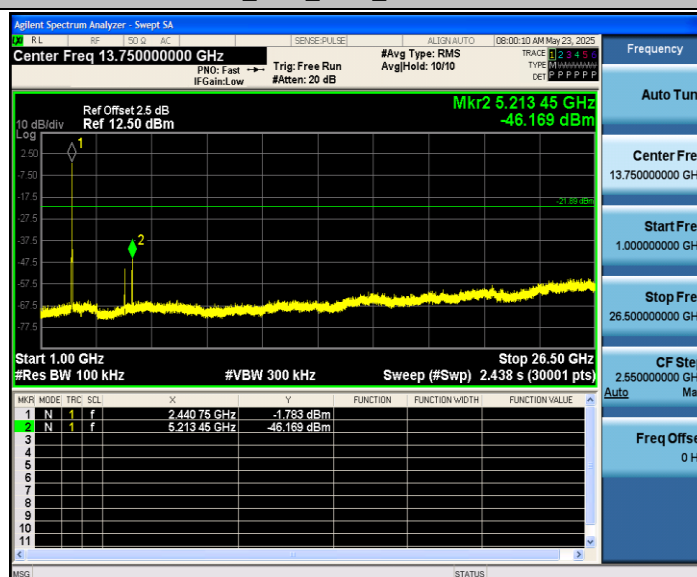
11G_Ant1_2437_0~Reference



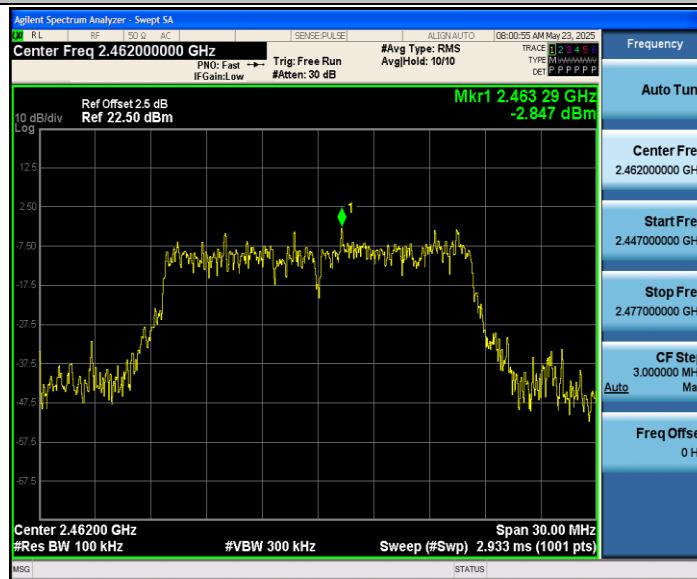
11G_Ant1_2437_30~1000



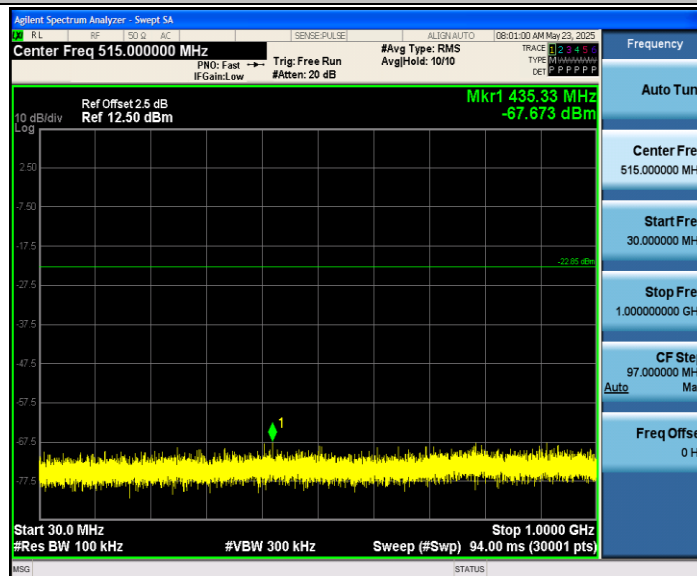
11G_Ant1_2437_1000~26500



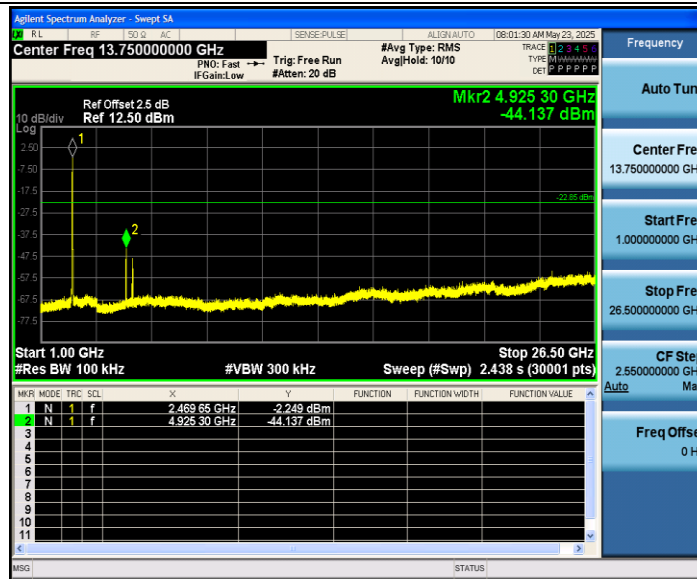
11G_Ant1_2462_0~Reference



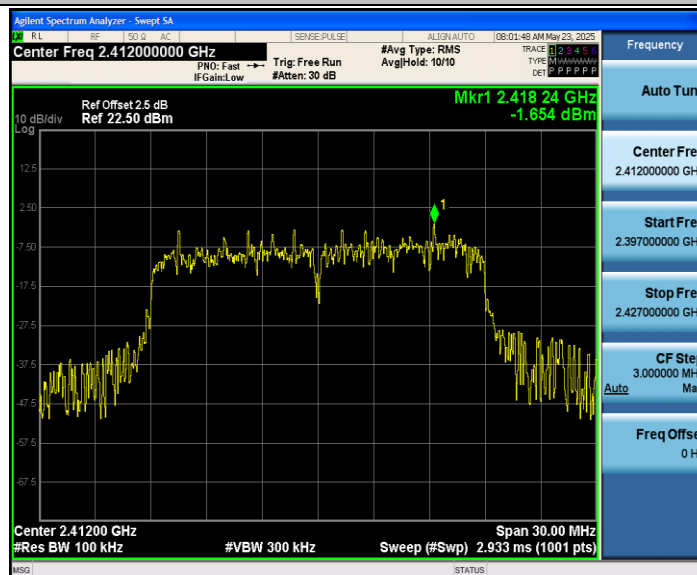
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

