

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BFTD460022

Company : Target Sports Ltd

EUT : OMNI AUTO SCORING SYSTEM

Model Number : 460022

Report No. : CTA26010601702

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

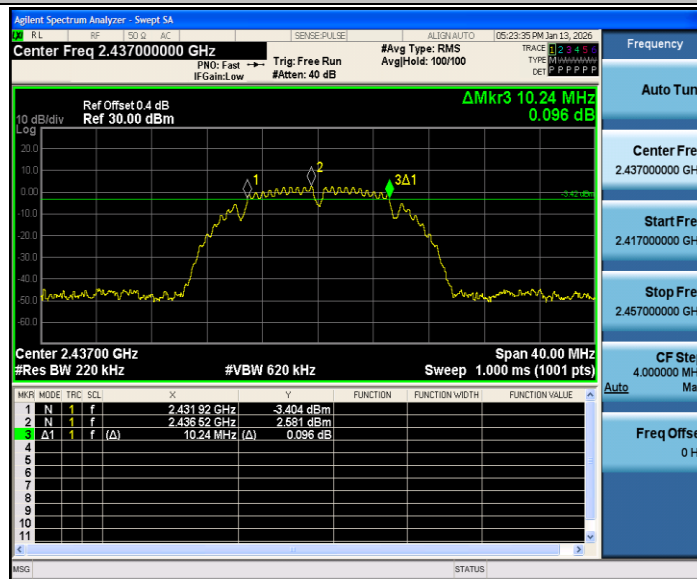
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	16.000	2404.040	2420.040	0.5	PASS
		2437	15.840	2429.160	2445.000	0.5	PASS
		2462	15.480	2454.440	2469.920	0.5	PASS
11N20SISO	Ant1	2412	16.360	2404.000	2420.360	0.5	PASS
		2437	17.200	2428.440	2445.640	0.5	PASS
		2462	16.640	2453.440	2470.080	0.5	PASS
11N40SISO	Ant1	2422	35.920	2403.920	2439.840	0.5	PASS
		2437	33.120	2420.280	2453.400	0.5	PASS
		2452	34.400	2435.440	2469.840	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



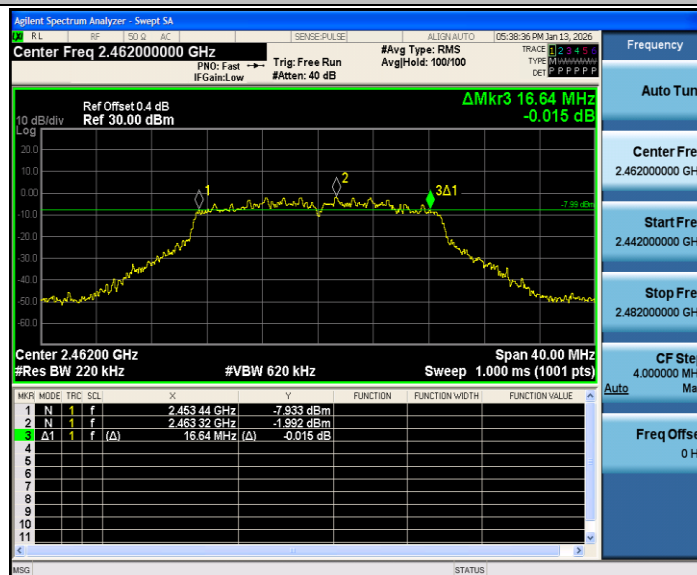
11N20SISO_Ant1_2412



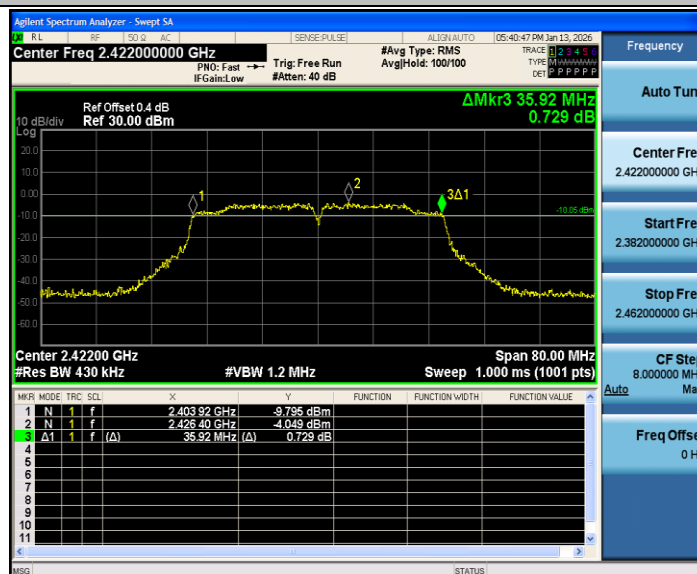
11N20SISO_Ant1_2437



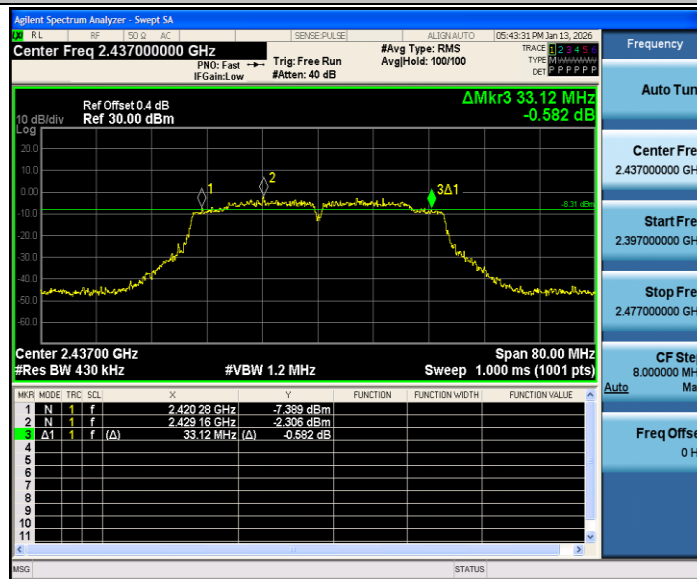
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



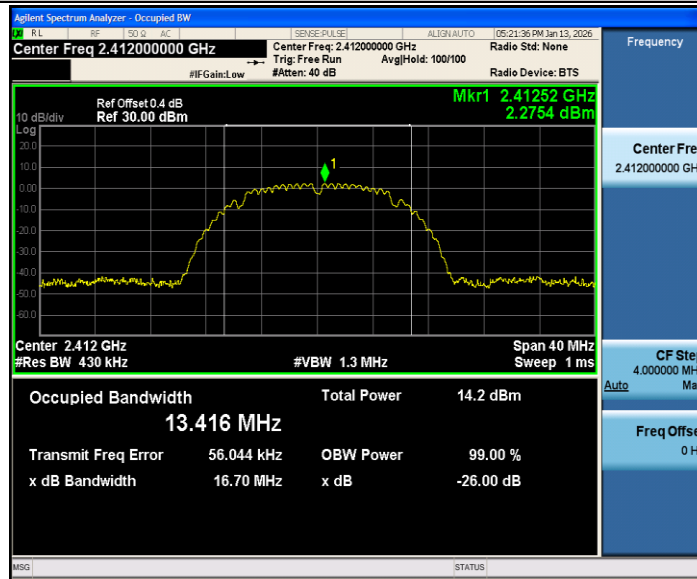
Appendix B: Occupied Channel Bandwidth

Test Result

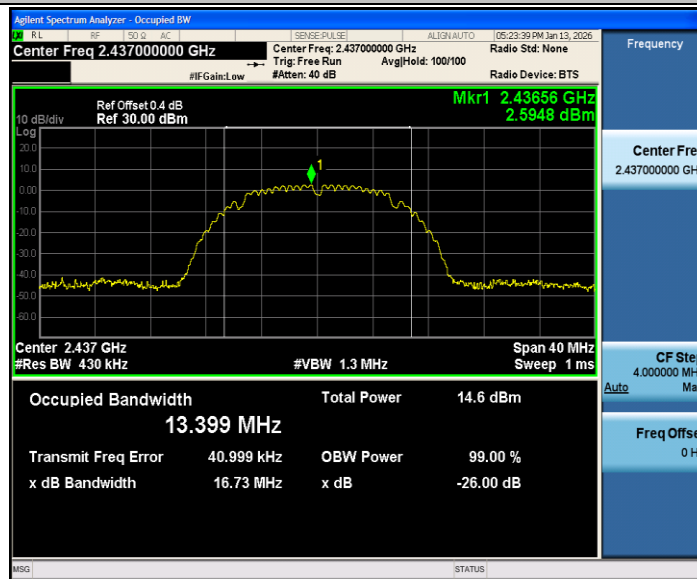
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.416	2405.3480	2418.7640	---	---
		2437	13.399	2430.3415	2443.7405	---	---
		2462	13.423	2455.3118	2468.7348	---	---
11G	Ant1	2412	16.876	2403.6469	2420.5229	---	---
		2437	16.820	2428.6509	2445.4709	---	---
		2462	16.894	2453.5819	2470.4759	---	---
11N20SISO	Ant1	2412	17.835	2403.1257	2420.9607	---	---
		2437	17.900	2428.0879	2445.9879	---	---
		2462	17.872	2453.0712	2470.9432	---	---
11N40SISO	Ant1	2422	36.091	2404.0258	2440.1168	---	---
		2437	36.044	2419.0459	2455.0899	---	---
		2452	36.024	2434.0390	2470.0630	---	---

Test Graphs

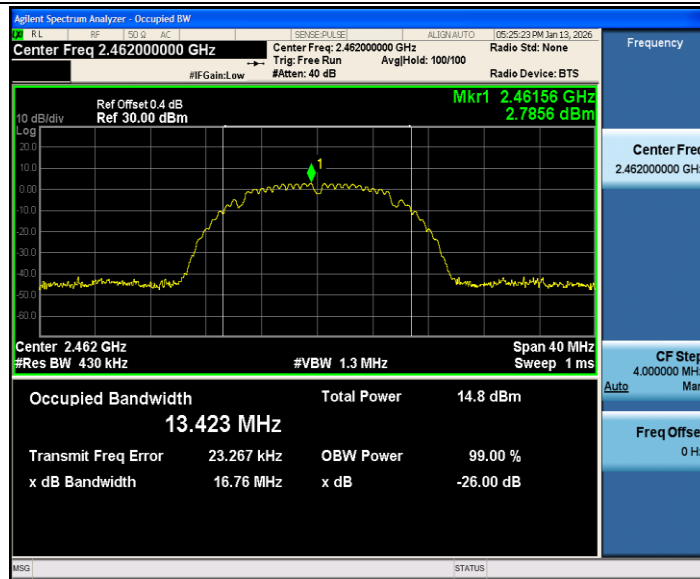
11B_Ant1_2412



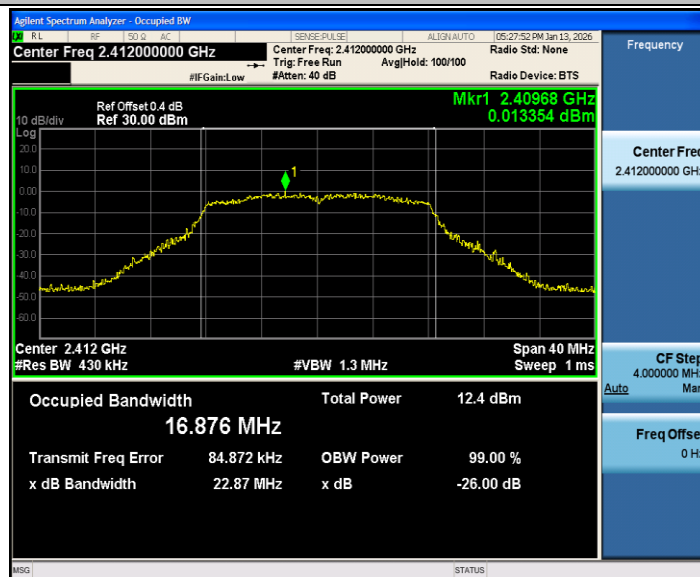
11B_Ant1_2437



11B_Ant1_2462



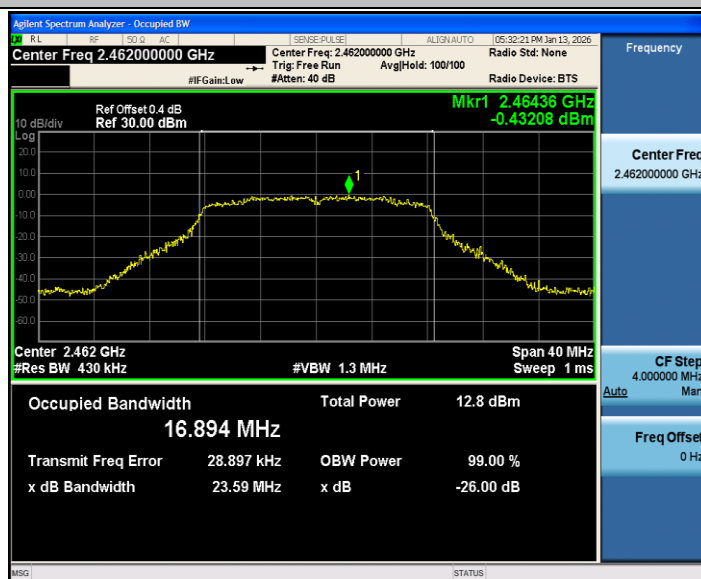
11G_Ant1_2412



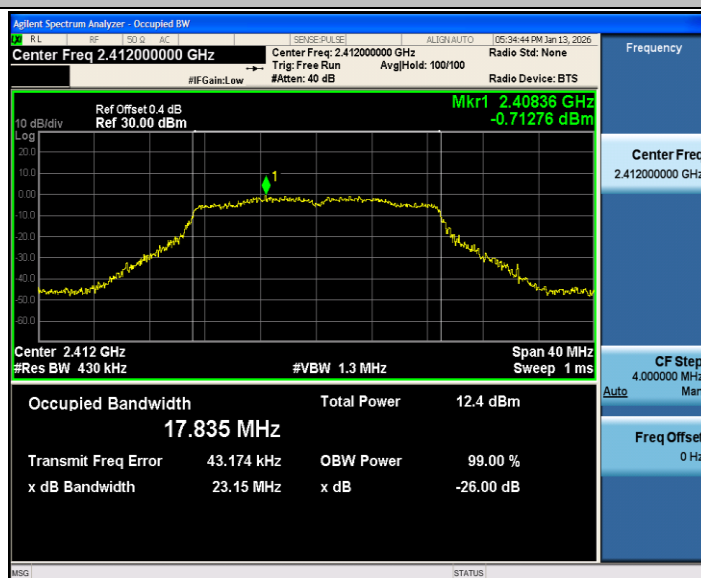
11G_Ant1_2437



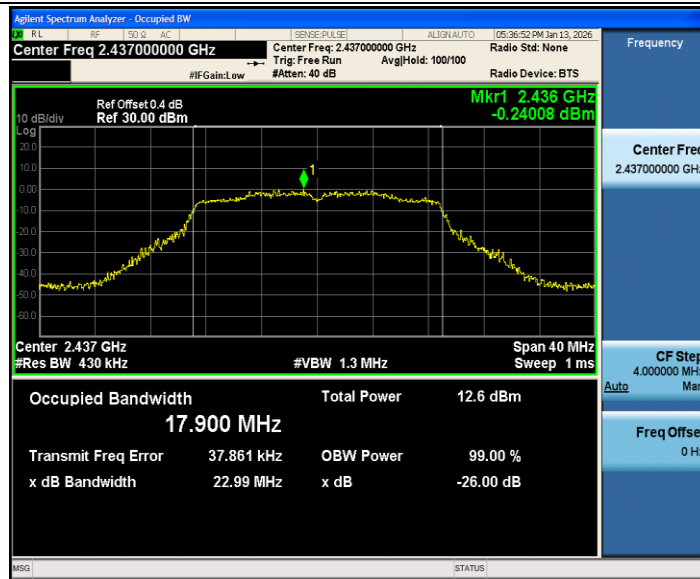
11G_Ant1_2462



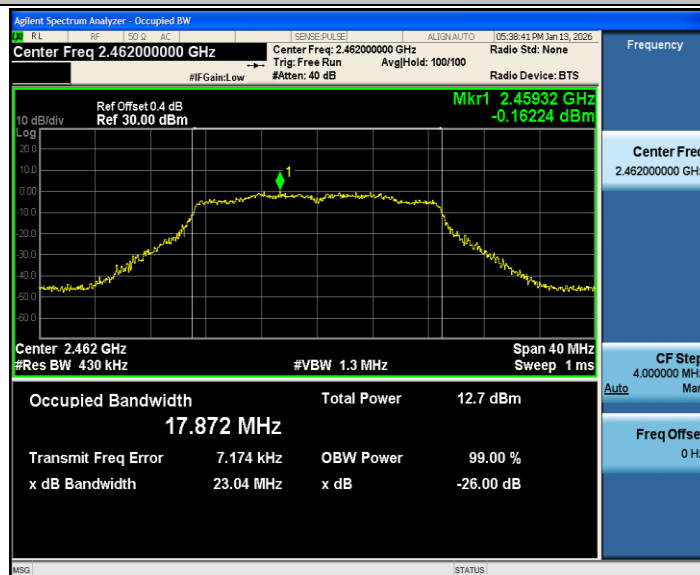
11N20SISO_Ant1_2412



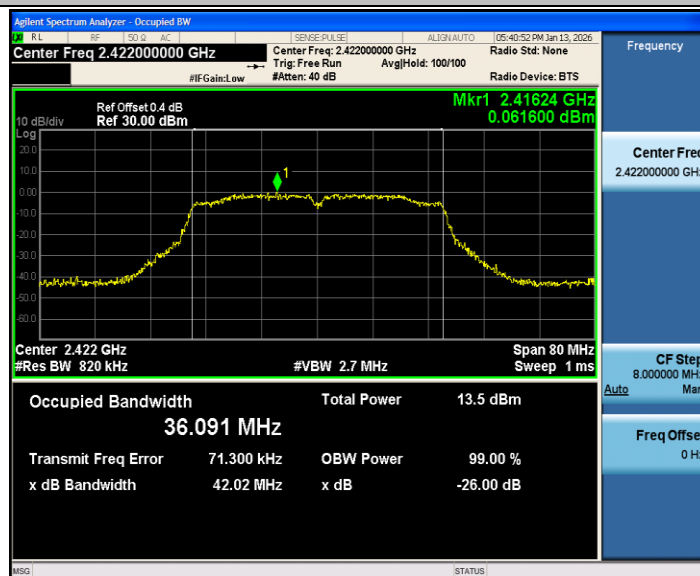
11N20SISO_Ant1_2437



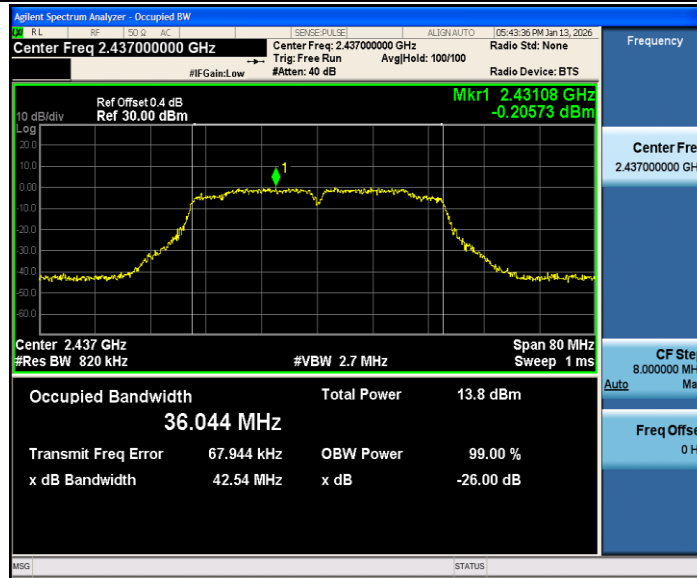
11N20SISO_Ant1_2462



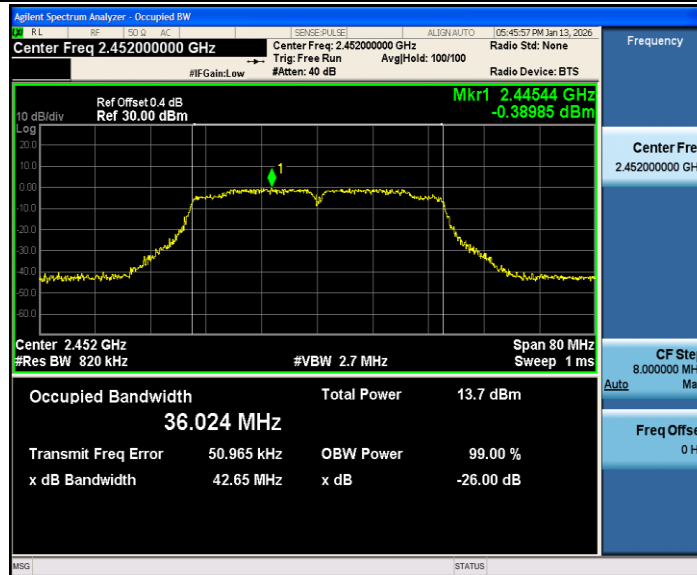
11N40SISO_Ant1_2422



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	13.94	≤30.00	PASS
		2437	14.25	≤30.00	PASS
		2462	14.45	≤30.00	PASS
11G	Ant1	2412	13.34	≤30.00	PASS
		2437	13.57	≤30.00	PASS
		2462	13.65	≤30.00	PASS
11N20SISO	Ant1	2412	13.08	≤30.00	PASS
		2437	13.45	≤30.00	PASS
		2462	13.58	≤30.00	PASS
11N40SISO	Ant1	2422	13.72	≤30.00	PASS
		2437	13.70	≤30.00	PASS
		2452	13.77	≤30.00	PASS

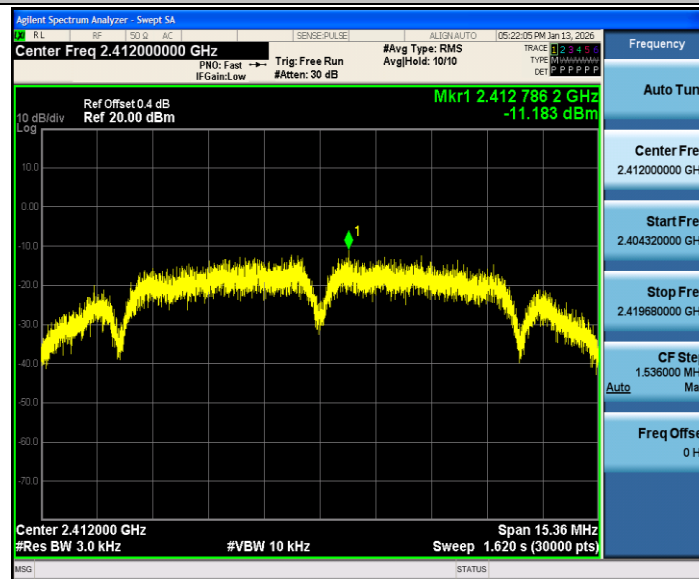
Appendix D: Maximum power spectral density

Test Result

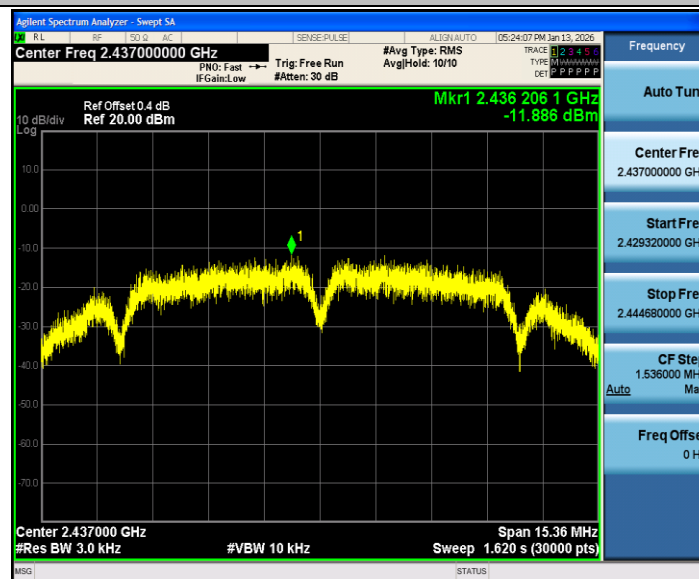
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.18	≤8.00	PASS
		2437	-11.89	≤8.00	PASS
		2462	-10.73	≤8.00	PASS
11G	Ant1	2412	-18.79	≤8.00	PASS
		2437	-18.22	≤8.00	PASS
		2462	-17.80	≤8.00	PASS
11N20SISO	Ant1	2412	-18.58	≤8.00	PASS
		2437	-18.45	≤8.00	PASS
		2462	-17.93	≤8.00	PASS
11N40SISO	Ant1	2422	-21.03	≤8.00	PASS
		2437	-20.73	≤8.00	PASS
		2452	-21.20	≤8.00	PASS

Test Graphs

11B_Ant1_2412



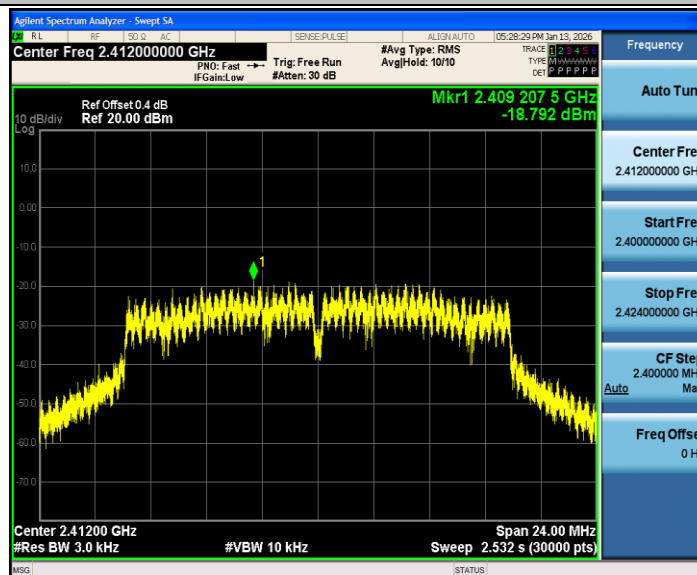
11B_Ant1_2437



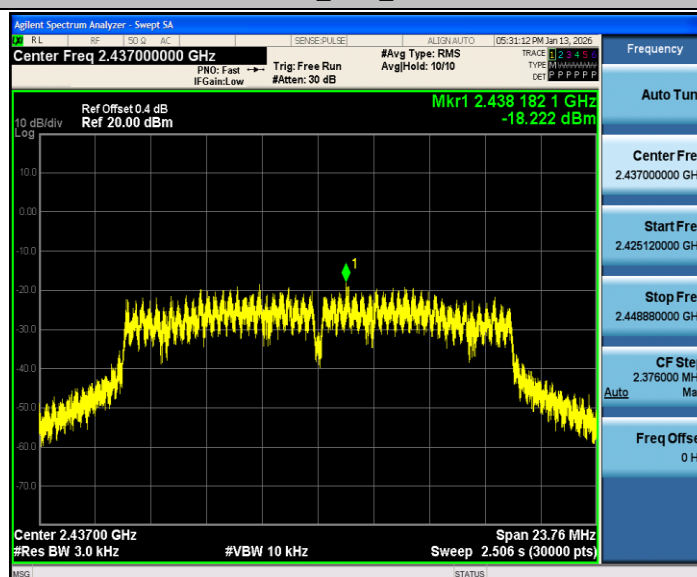
11B_Ant1_2462



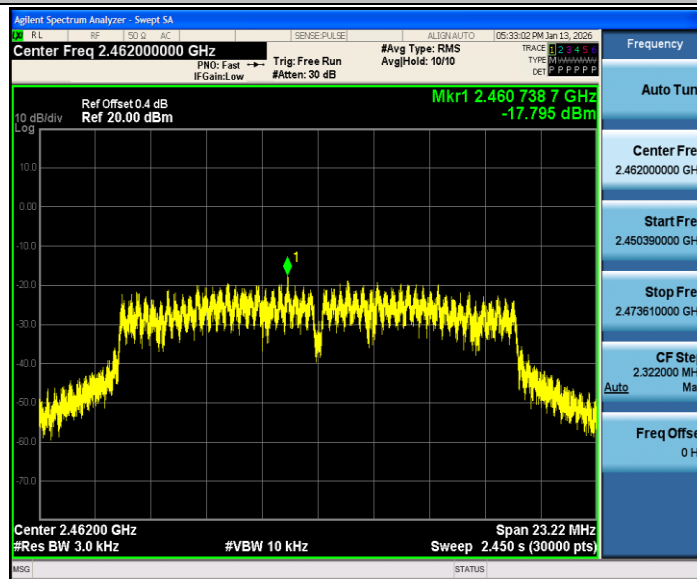
11G_Ant1_2412



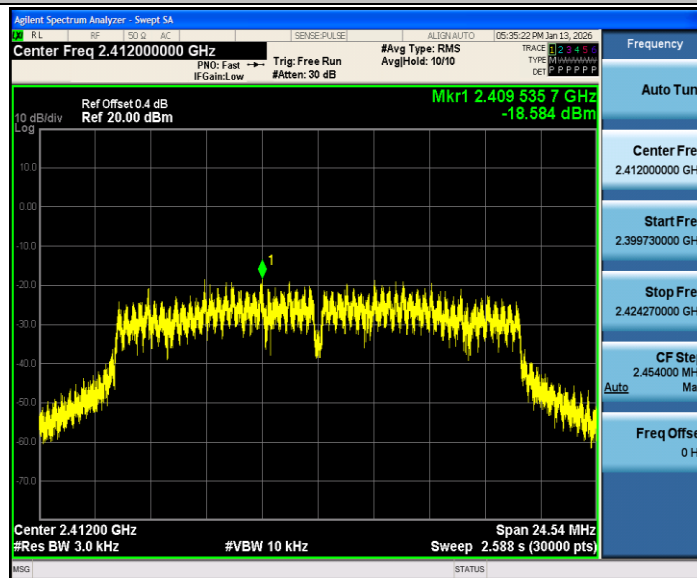
11G_Ant1_2437



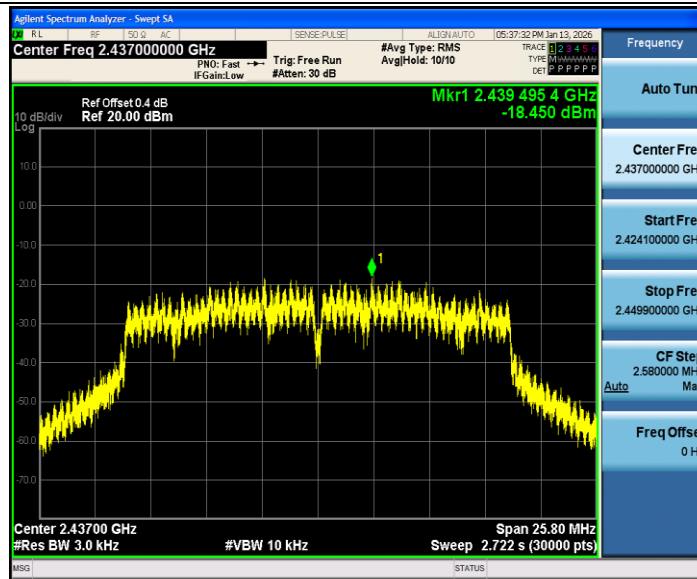
11G_Ant1_2462



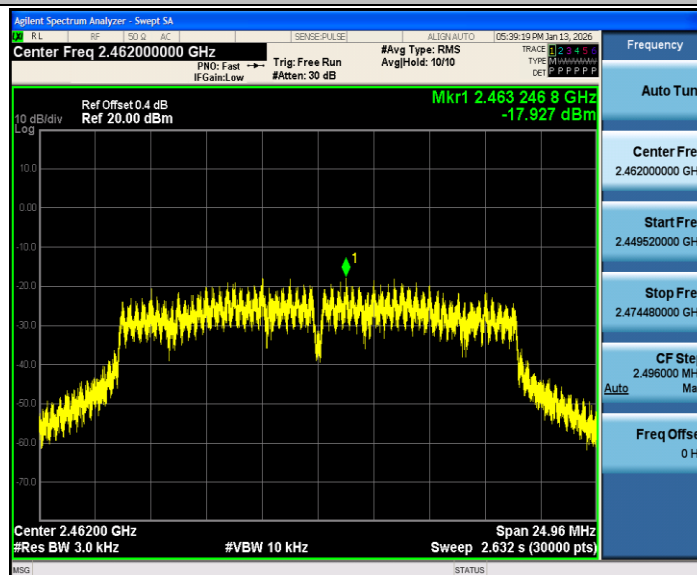
11N20SISO_Ant1_2412



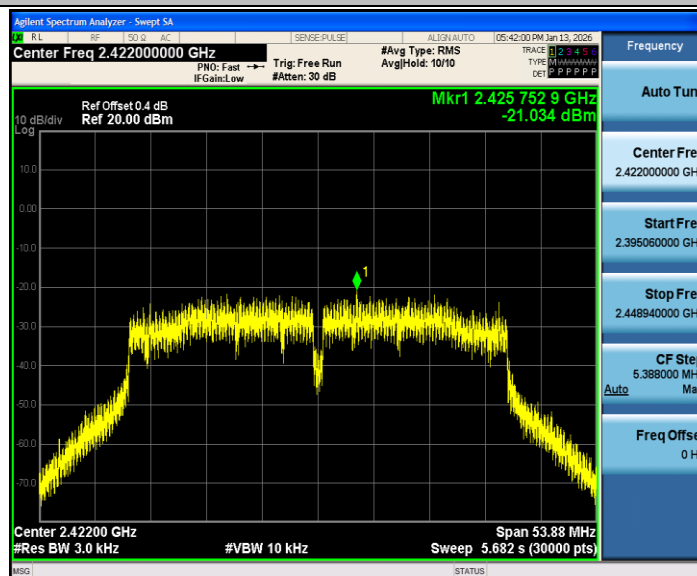
11N20SISO_Ant1_2437



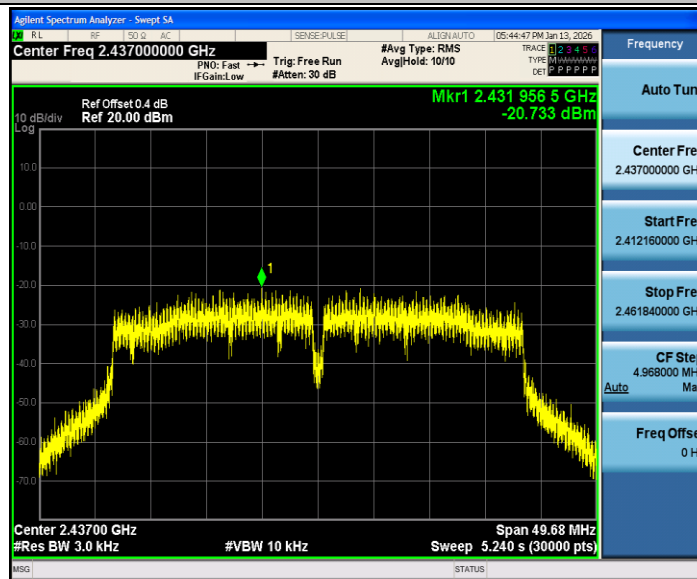
11N20SISO_Ant1_2462



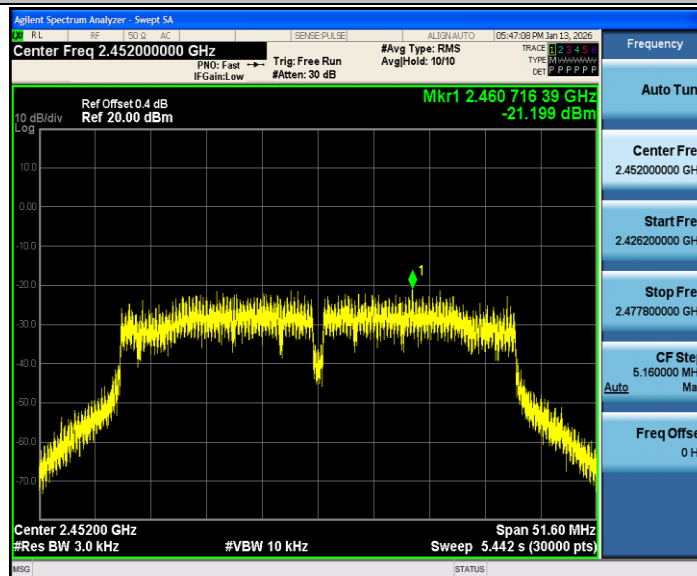
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



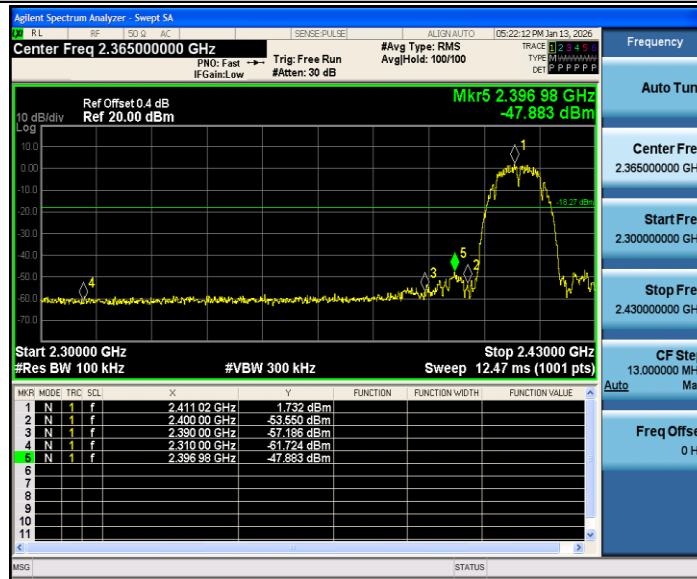
Appendix E: Band edge measurements

Test Result

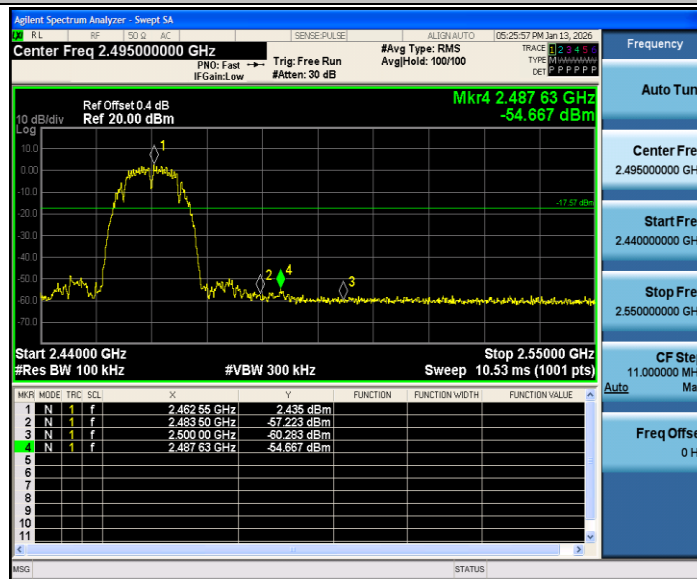
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.73	-47.88	≤-18.27	PASS
		High	2462	2.44	-54.67	≤-17.57	PASS
11G	Ant1	Low	2412	-3.02	-34.62	≤-23.02	PASS
		High	2462	-2.70	-57.98	≤-22.7	PASS
11N20SISO	Ant1	Low	2412	-3.35	-34.67	≤-23.35	PASS
		High	2462	-2.75	-57.53	≤-22.75	PASS
11N40SISO	Ant1	Low	2422	-6.41	-34.34	≤-26.41	PASS
		High	2452	-6.07	-57.13	≤-26.07	PASS

Test Graphs

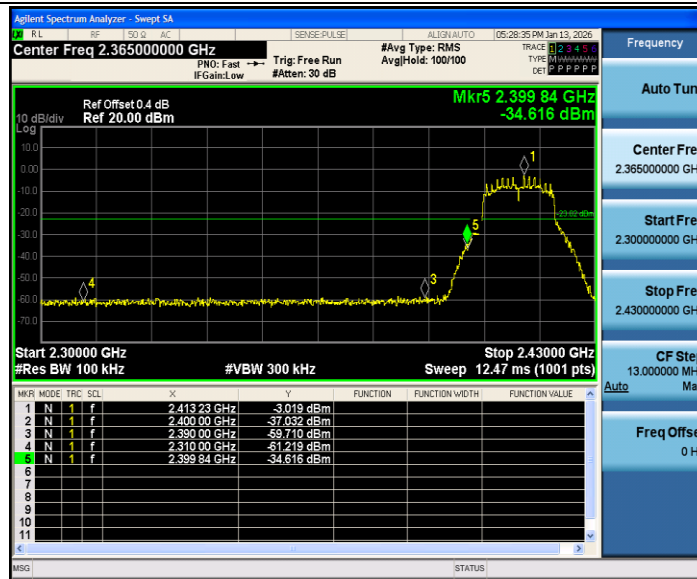
11B_Ant1_Low_2412



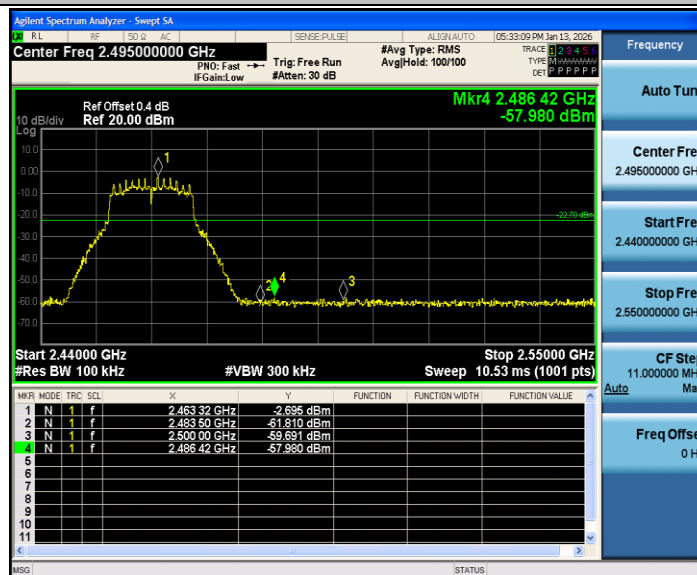
11B_Ant1_High_2462



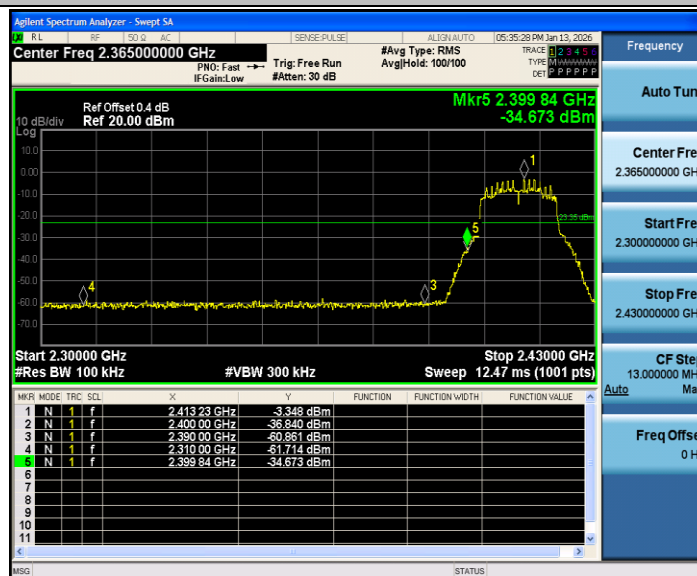
11G_Ant1_Low_2412



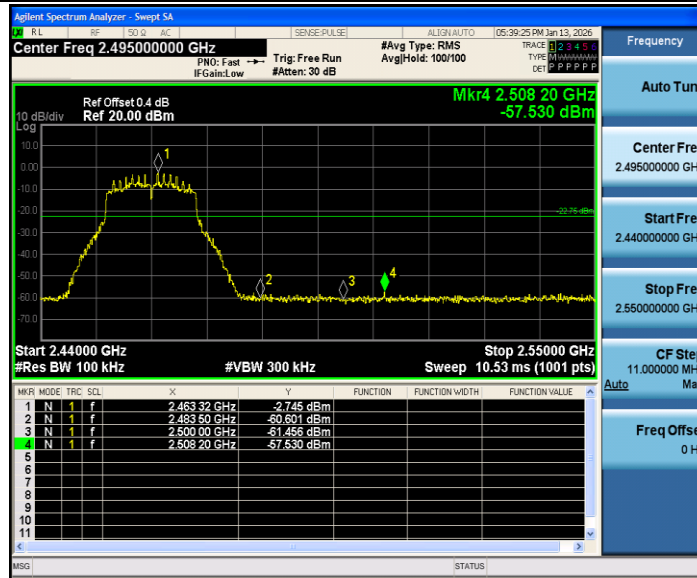
11G_Ant1_High_2462



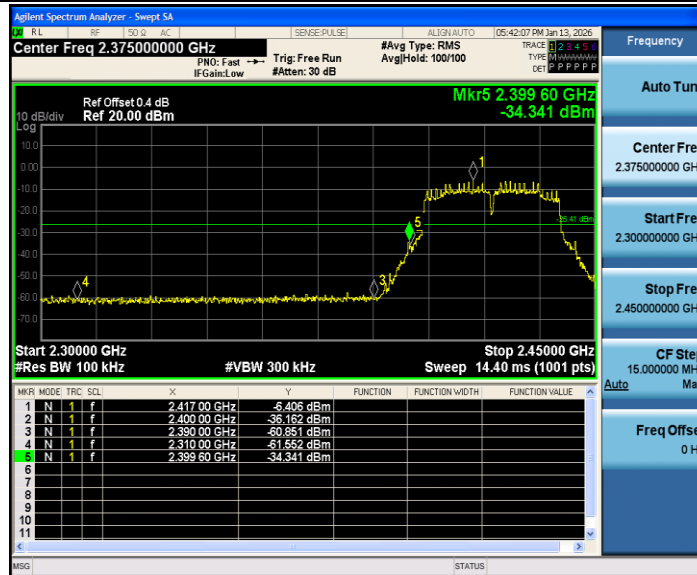
11N20SISO_Ant1_Low_2412



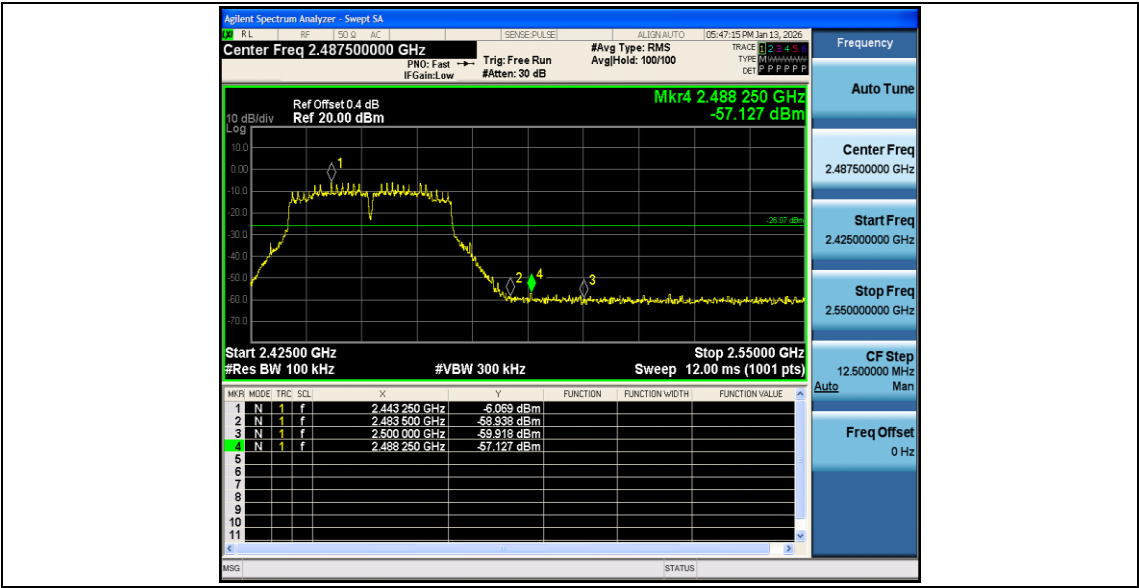
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

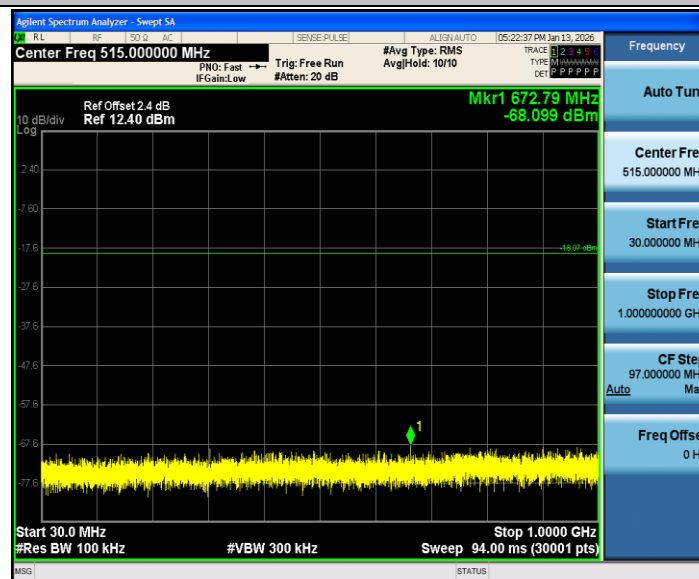
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.03	1.03	---	PASS
			30~1000	1.03	-68.1	≤-18.97	PASS
			1000~26500	1.03	-54.86	≤-18.97	PASS
		2437	Reference	1.85	1.85	---	PASS
			30~1000	1.85	-67.61	≤-18.15	PASS
			1000~26500	1.85	-55.39	≤-18.15	PASS
		2462	Reference	1.89	1.89	---	PASS
			30~1000	1.89	-67.92	≤-18.11	PASS
			1000~26500	1.89	-55.27	≤-18.11	PASS
11G	Ant1	2412	Reference	-3.71	-3.71	---	PASS
			30~1000	-3.71	-67.6	≤-23.71	PASS
			1000~26500	-3.71	-55.53	≤-23.71	PASS
		2437	Reference	-3.82	-3.82	---	PASS
			30~1000	-3.82	-68.15	≤-23.82	PASS
			1000~26500	-3.82	-55.31	≤-23.82	PASS
		2462	Reference	-3.30	-3.30	---	PASS
			30~1000	-3.30	-67.29	≤-23.3	PASS
			1000~26500	-3.30	-55.15	≤-23.3	PASS
11N20SISO	Ant1	2412	Reference	-3.49	-3.49	---	PASS
			30~1000	-3.49	-68.44	≤-23.49	PASS
			1000~26500	-3.49	-54.46	≤-23.49	PASS
		2437	Reference	-4.53	-4.53	---	PASS
			30~1000	-4.53	-67.98	≤-24.53	PASS
			1000~26500	-4.53	-55.9	≤-24.53	PASS
		2462	Reference	-3.06	-3.06	---	PASS
			30~1000	-3.06	-57.3	≤-23.06	PASS
			1000~26500	-3.06	-55.3	≤-23.06	PASS
11N40SISO	Ant1	2422	Reference	-6.75	-6.75	---	PASS
			30~1000	-6.75	-68.07	≤-26.75	PASS
			1000~26500	-6.75	-54.84	≤-26.75	PASS
		2437	Reference	-6.26	-6.26	---	PASS
			30~1000	-6.26	-67.81	≤-26.26	PASS
			1000~26500	-6.26	-55.29	≤-26.26	PASS
		2452	Reference	-6.70	-6.70	---	PASS
			30~1000	-6.70	-66.76	≤-26.7	PASS
			1000~26500	-6.70	-55.06	≤-26.7	PASS

Test Graphs

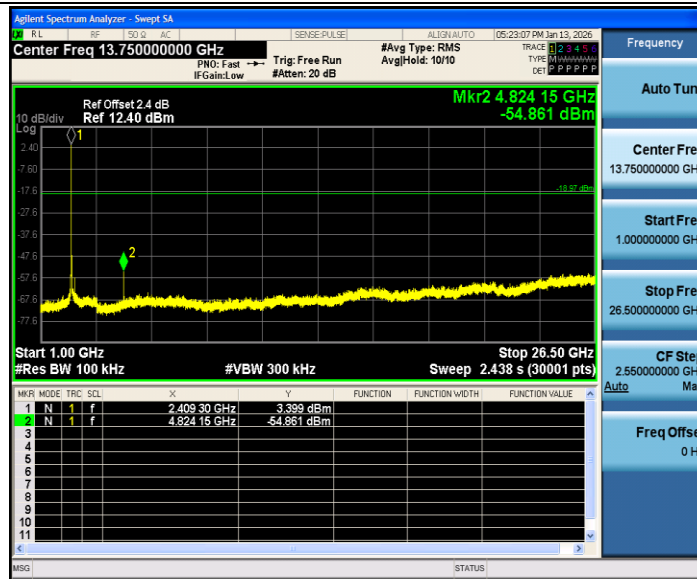
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



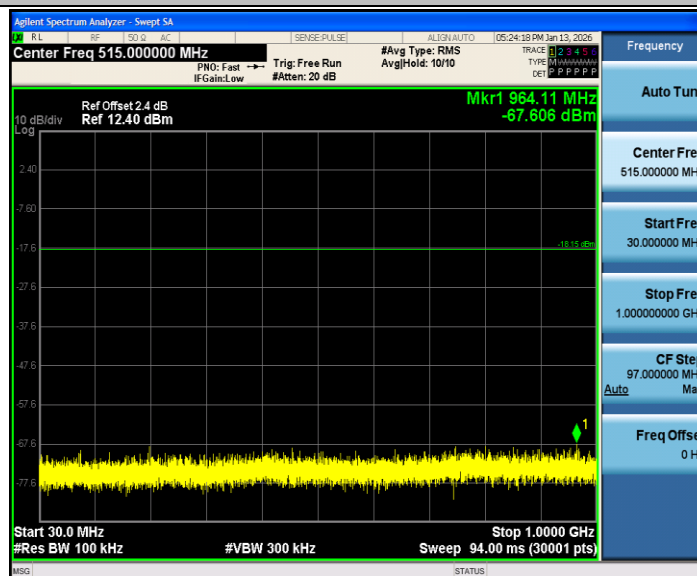
11B_Ant1_2412_1000~26500



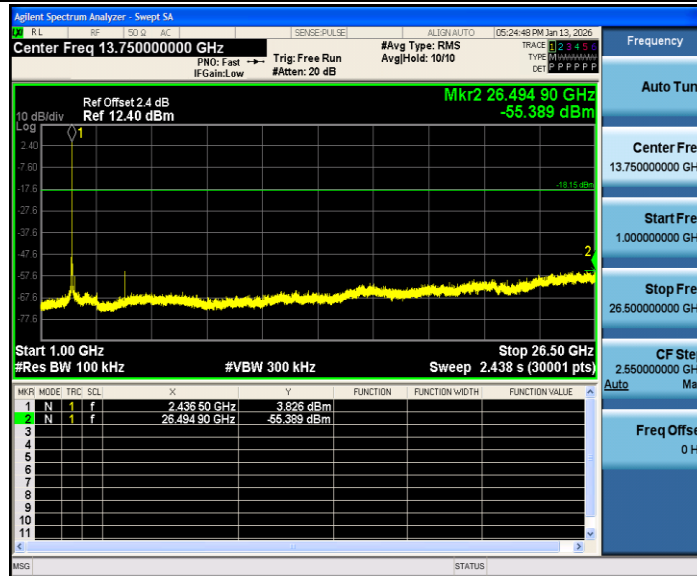
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



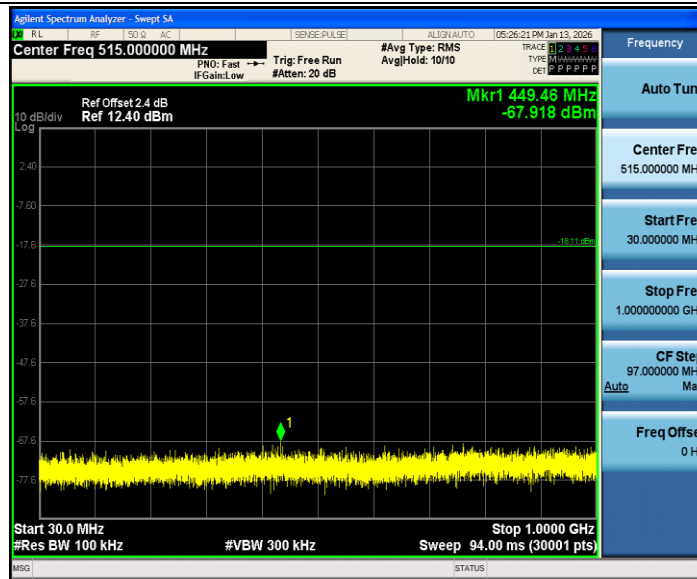
11B_Ant1_2437_1000~26500



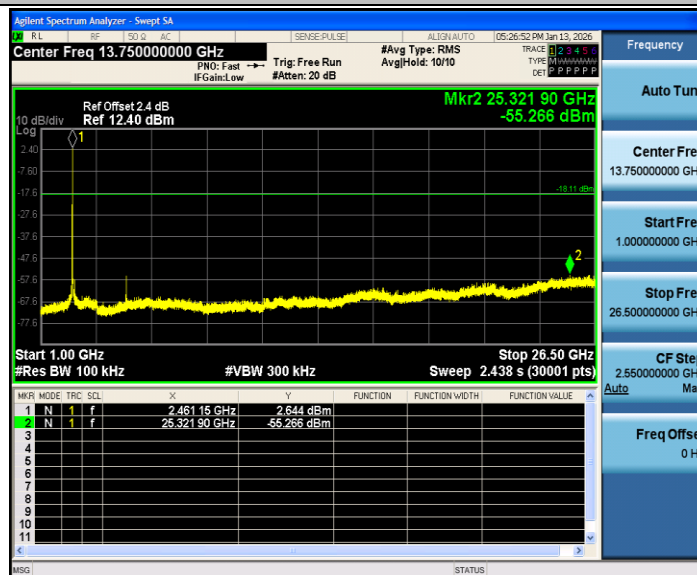
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



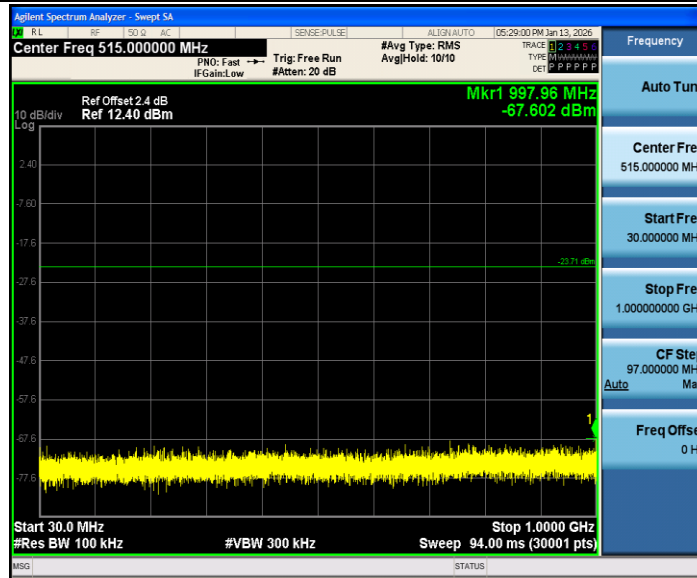
11B_Ant1_2462_1000~26500



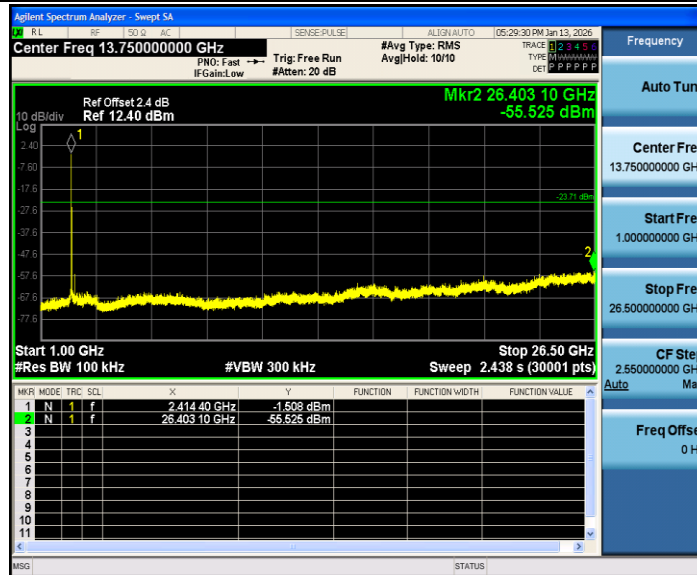
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



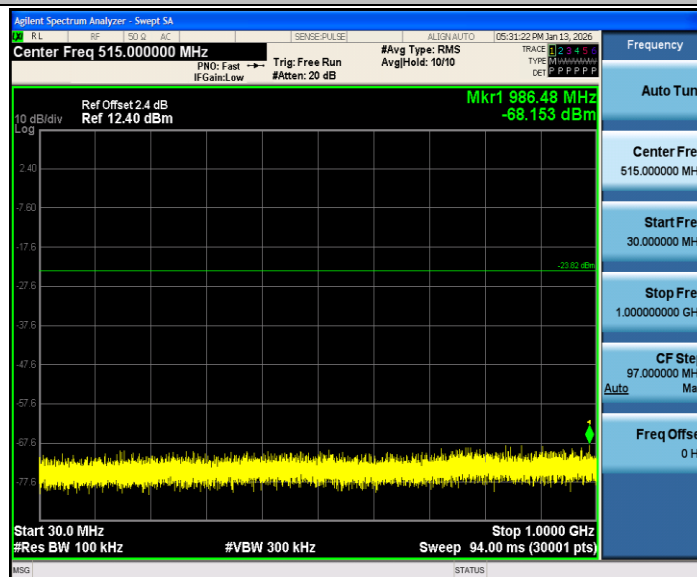
11G_Ant1_2412_1000~26500



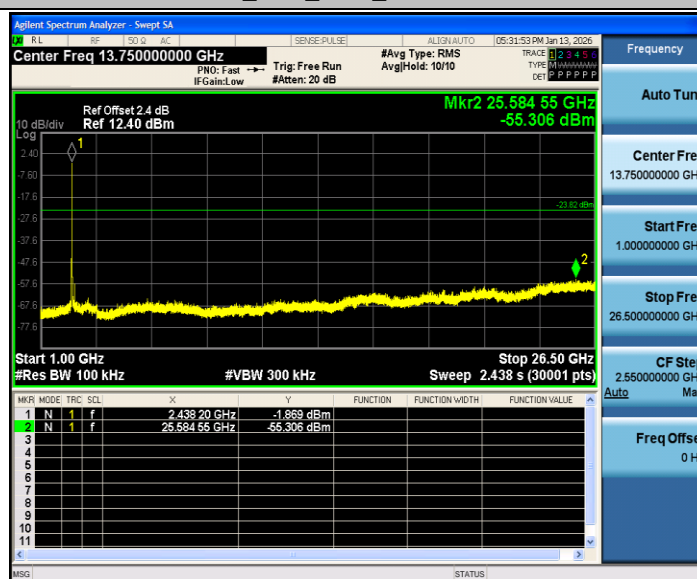
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



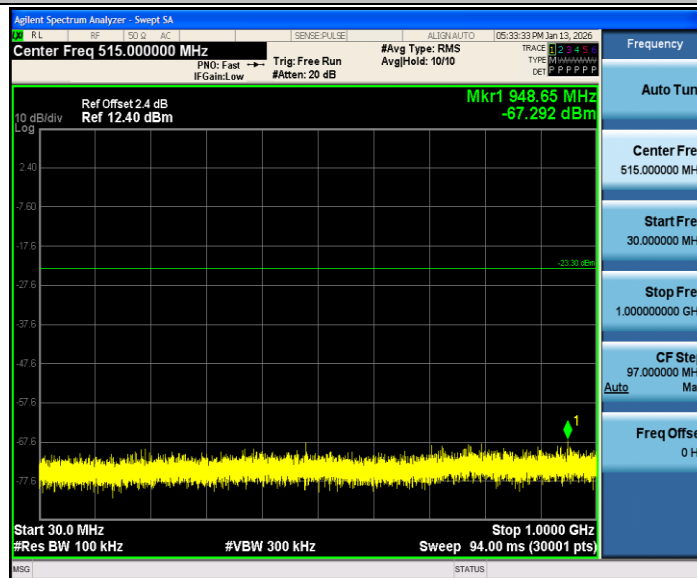
11G_Ant1_2437_1000~26500



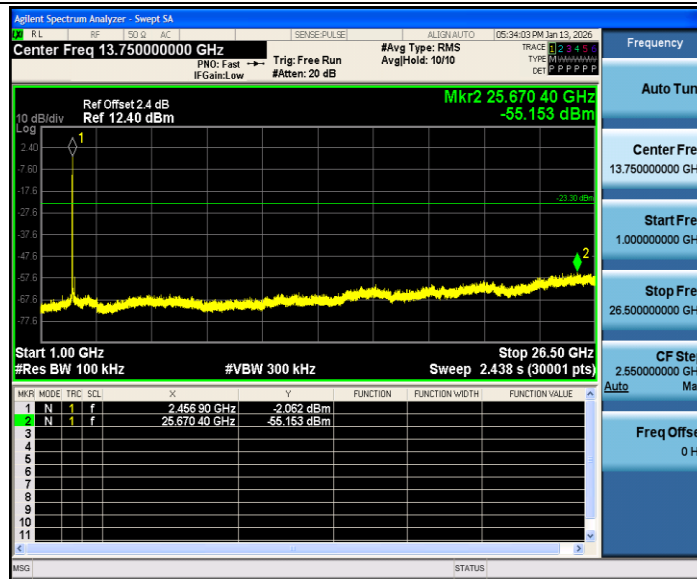
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

