

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BHAF-T10A863-21

Company : South Holdings Technology Co., Limited

EUT : Tablet computer

Model Number : T10A863-21

Report No. : CTA25103001202

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	8.080	2408.120	2416.200	0.5	PASS
		2437	8.320	2433.040	2441.360	0.5	PASS
		2462	8.760	2457.520	2466.280	0.5	PASS
11G	Ant1	2412	16.400	2403.880	2420.280	0.5	PASS
		2437	16.360	2428.880	2445.240	0.5	PASS
		2462	16.360	2453.880	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.200	2403.400	2420.600	0.5	PASS
		2437	17.240	2428.400	2445.640	0.5	PASS
		2462	17.200	2453.400	2470.600	0.5	PASS
11N40SISO	Ant1	2422	34.080	2405.200	2439.280	0.5	PASS
		2437	33.680	2420.360	2454.040	0.5	PASS
		2452	33.920	2435.120	2469.040	0.5	PASS
11AX20SISO	Ant1	2412	17.360	2403.400	2420.760	0.5	PASS
		2437	17.320	2428.360	2445.680	0.5	PASS
		2462	17.360	2453.320	2470.680	0.5	PASS
11AX40SISO	Ant1	2422	33.600	2405.520	2439.120	0.5	PASS
		2437	33.760	2420.440	2454.200	0.5	PASS
		2452	34.000	2435.120	2469.120	0.5	PASS

Test Graphs

11B_Ant1_2412



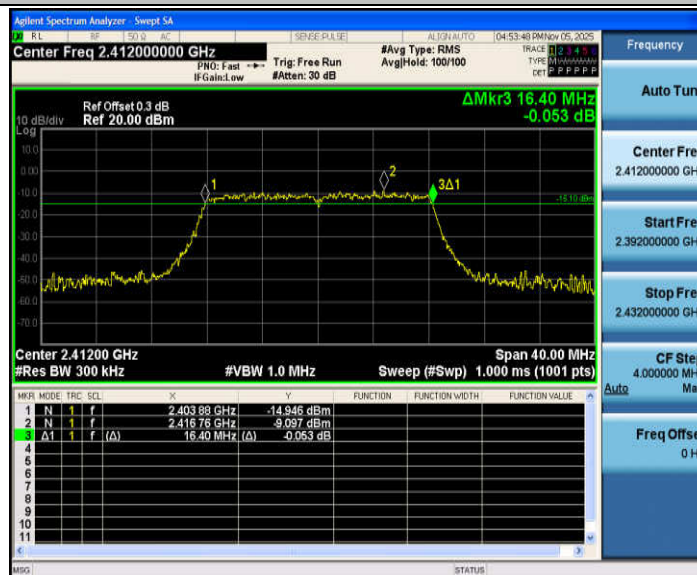
11B_Ant1_2437



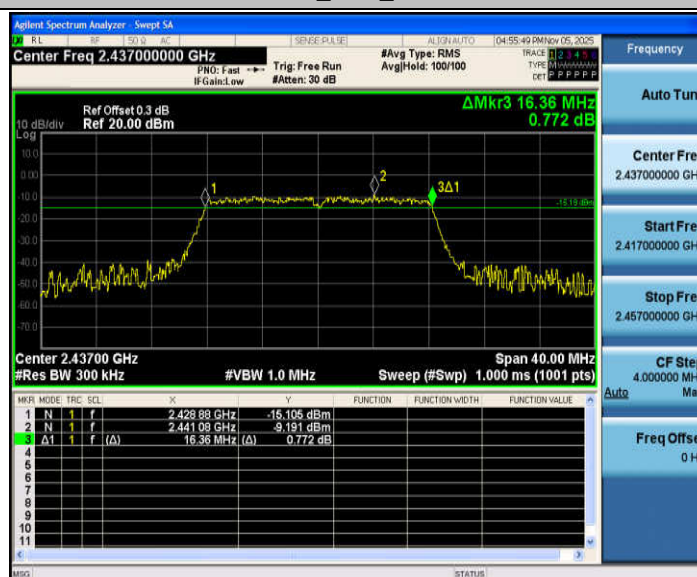
11B_Ant1_2462



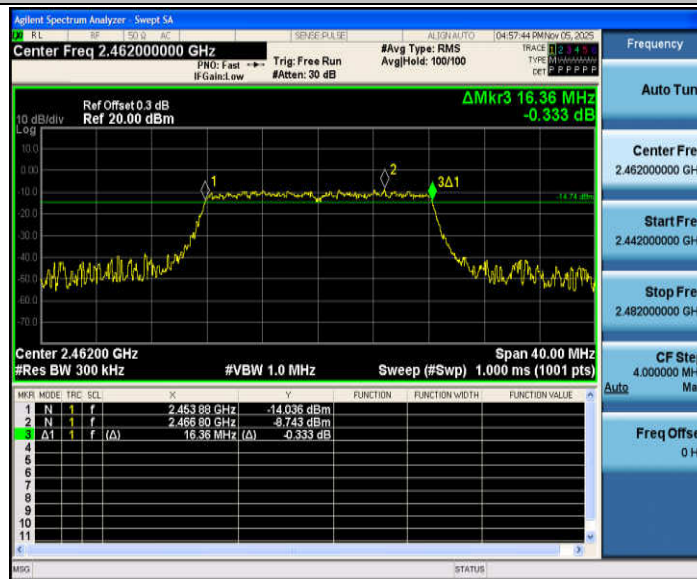
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



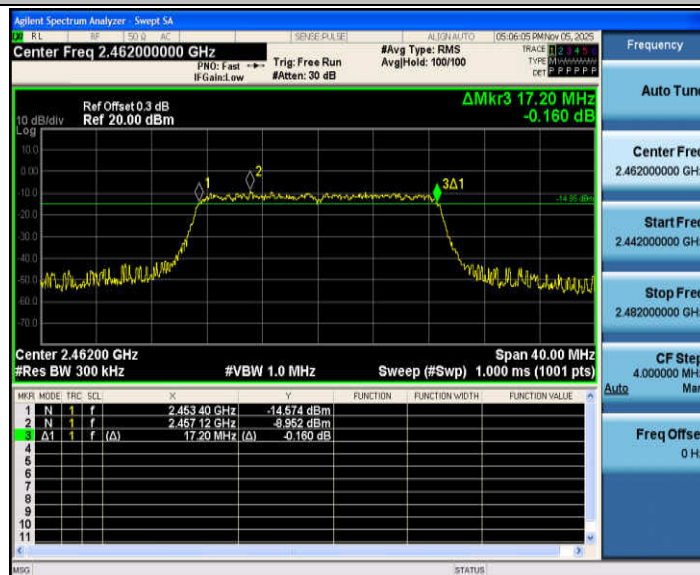
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



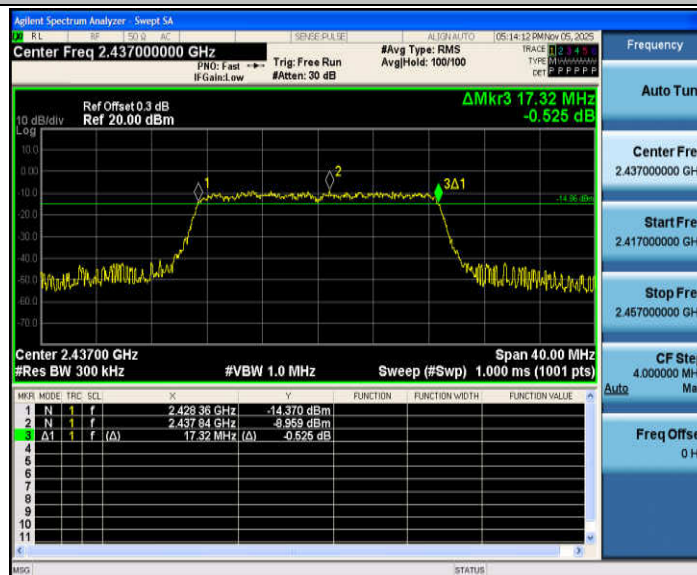
11N40SISO_Ant1_2452



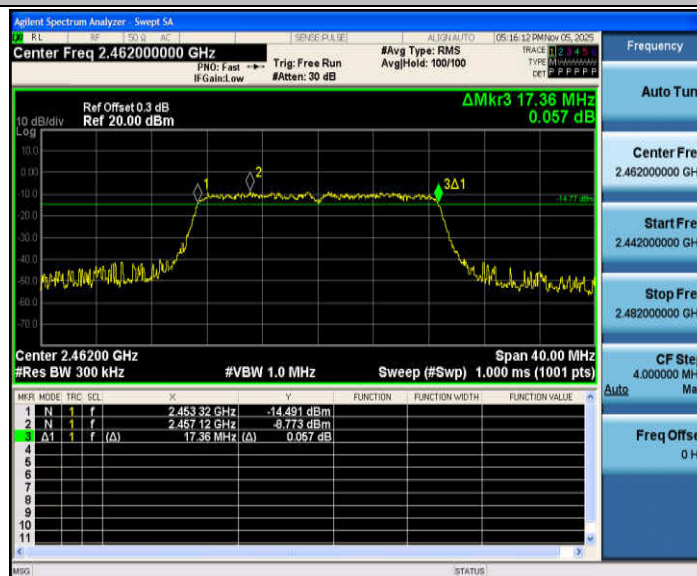
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



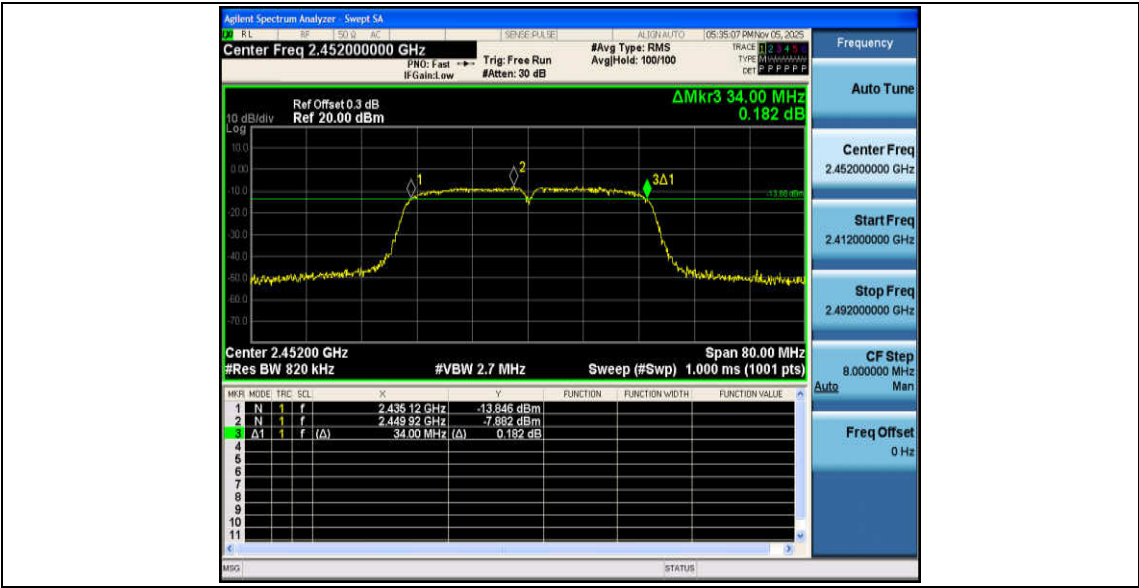
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



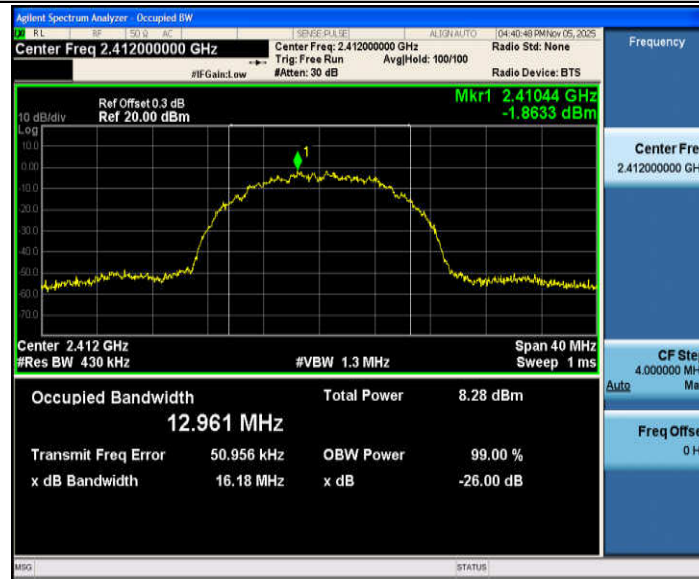
Appendix B: Occupied Channel Bandwidth

Test Result

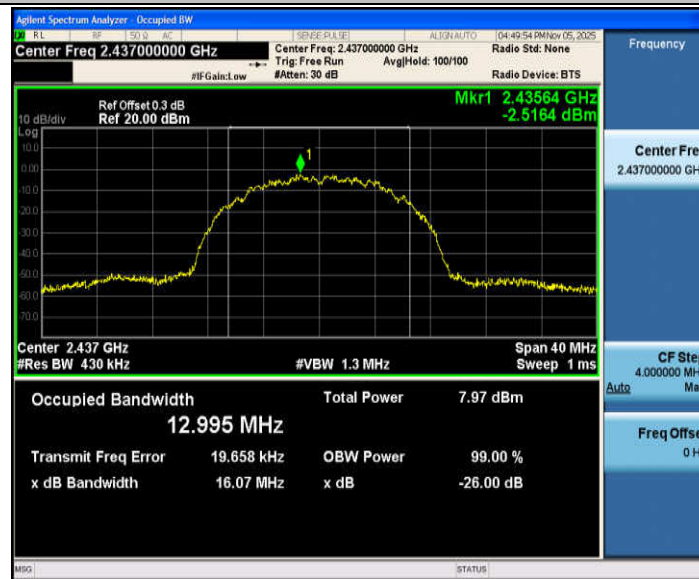
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.961	2405.5705	2418.5315	---	---
		2437	12.995	2430.5222	2443.5172	---	---
		2462	12.953	2455.5528	2468.5058	---	---
11G	Ant1	2412	16.613	2403.7136	2420.3266	---	---
		2437	16.566	2428.7587	2445.3247	---	---
		2462	16.623	2453.7180	2470.3410	---	---
11N20SISO	Ant1	2412	17.475	2403.3108	2420.7858	---	---
		2437	17.449	2428.3222	2445.7712	---	---
		2462	17.457	2453.2946	2470.7516	---	---
11N40SISO	Ant1	2422	34.847	2404.7574	2439.6044	---	---
		2437	34.832	2419.7357	2454.5677	---	---
		2452	34.825	2434.6956	2469.5206	---	---
11AX20SISO	Ant1	2412	17.471	2403.3116	2420.7826	---	---
		2437	17.479	2428.2979	2445.7769	---	---
		2462	17.462	2453.3069	2470.7689	---	---
11AX40SISO	Ant1	2422	34.906	2404.7038	2439.6098	---	---
		2437	34.837	2419.7629	2454.5999	---	---
		2452	34.821	2434.7170	2469.5380	---	---

Test Graphs

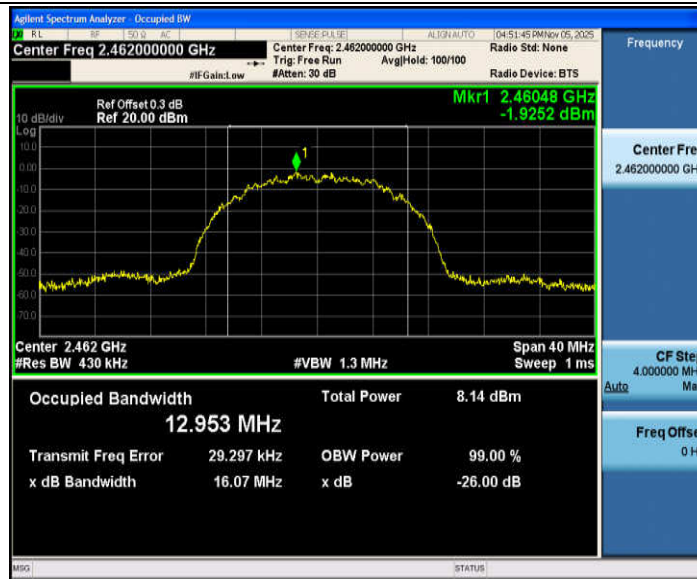
11B_Ant1_2412



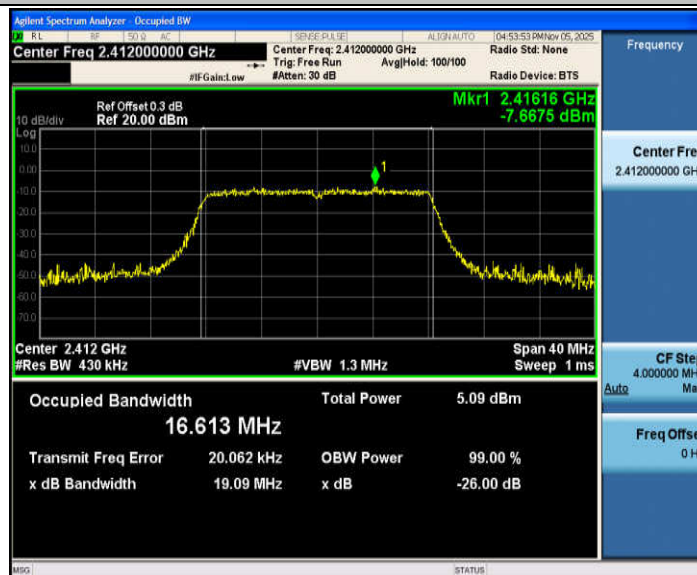
11B_Ant1_2437



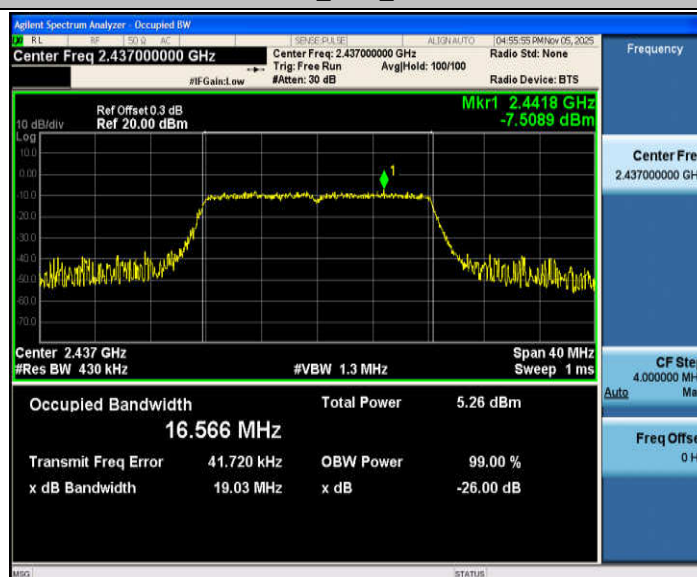
11B_Ant1_2462



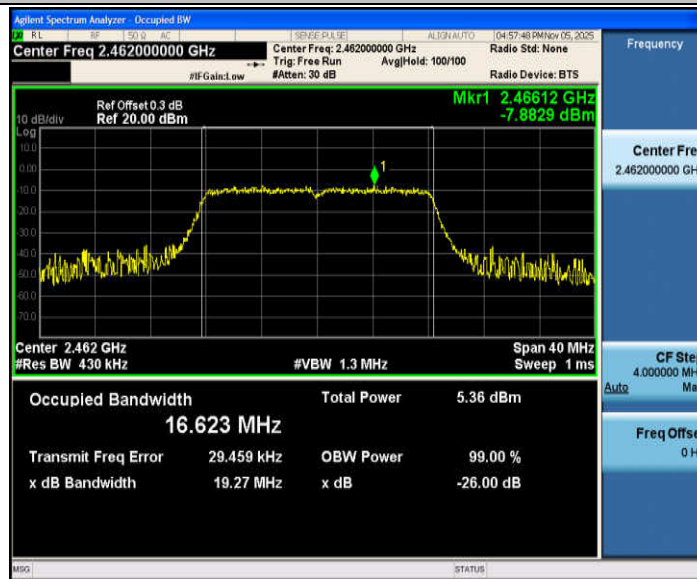
11G_Ant1_2412



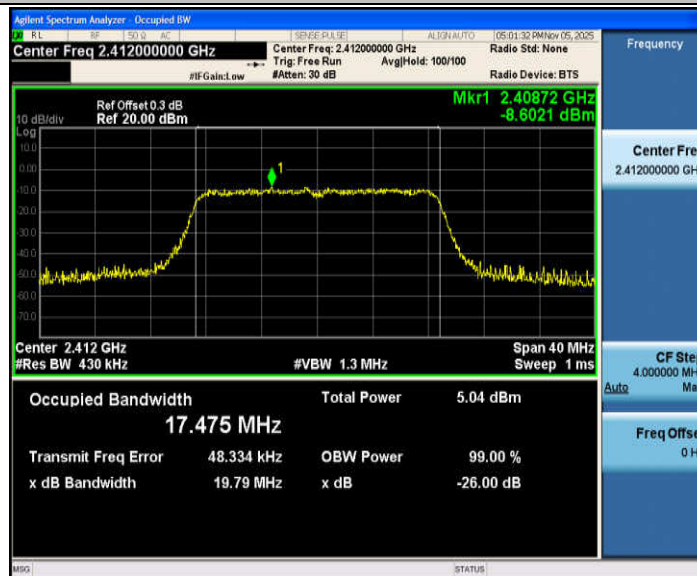
11G_Ant1_2437



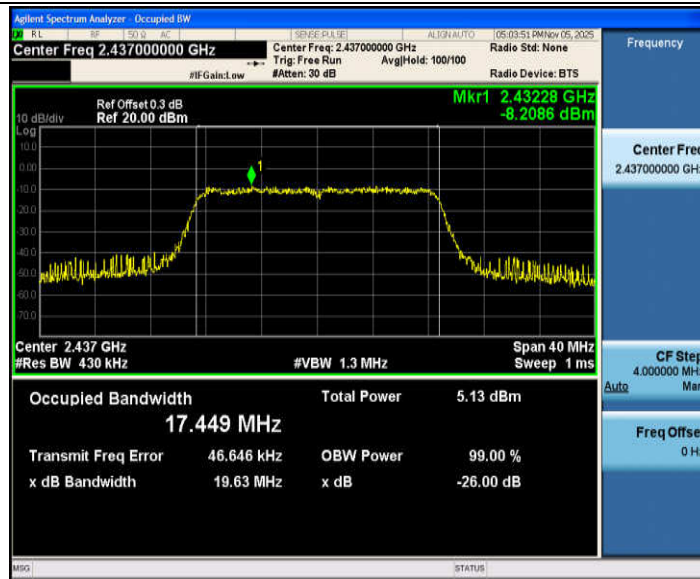
11G_Ant1_2462



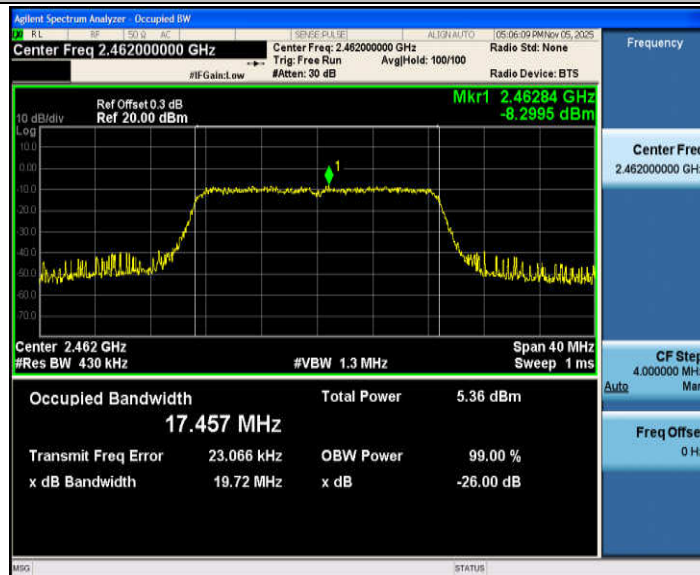
11N20SISO_Ant1_2412



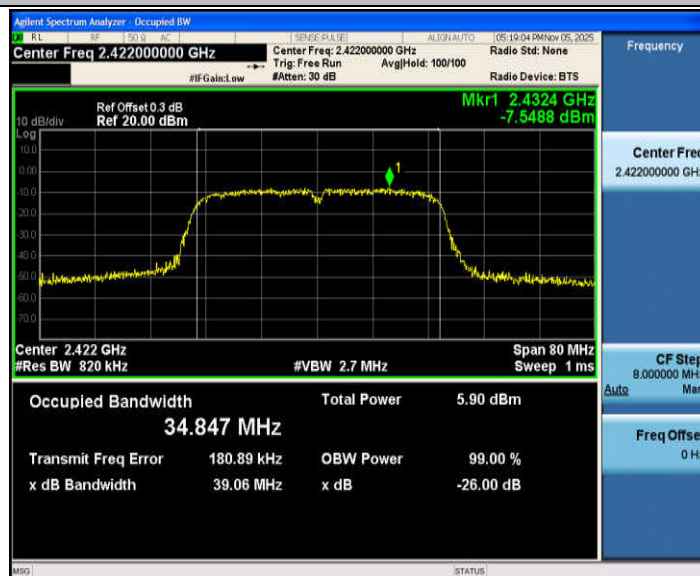
11N20SISO_Ant1_2437



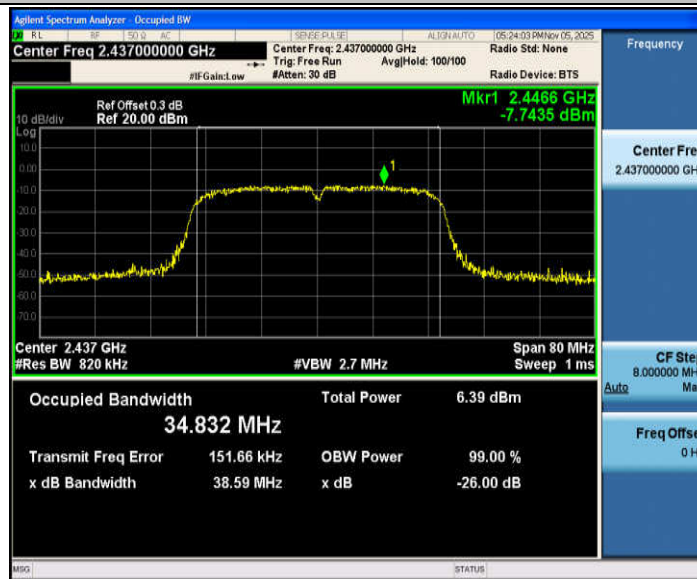
11N20SISO_Ant1_2462



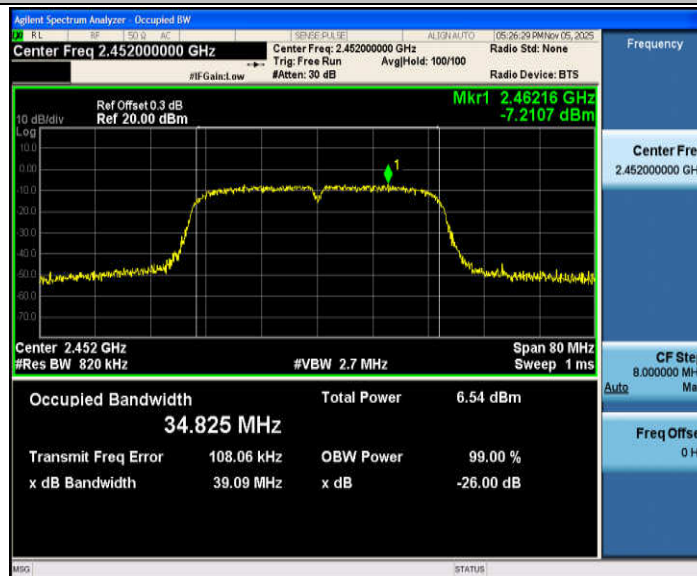
11N40SISO_Ant1_2422



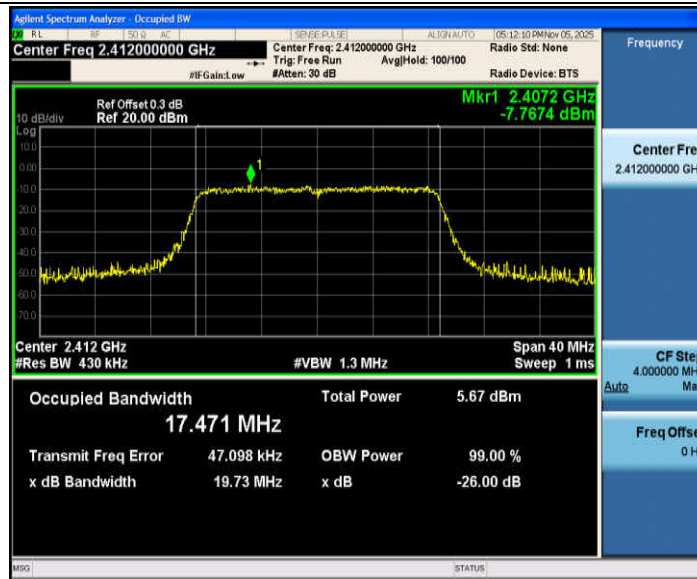
11N40SISO_Ant1_2437



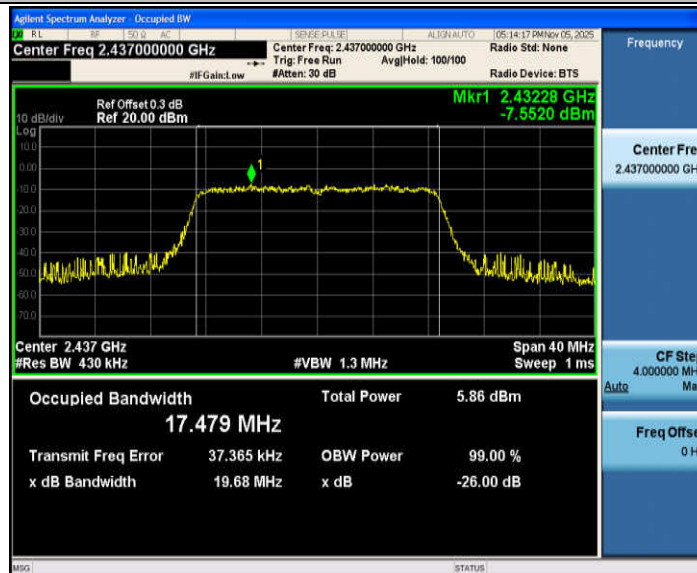
11N40SISO_Ant1_2452



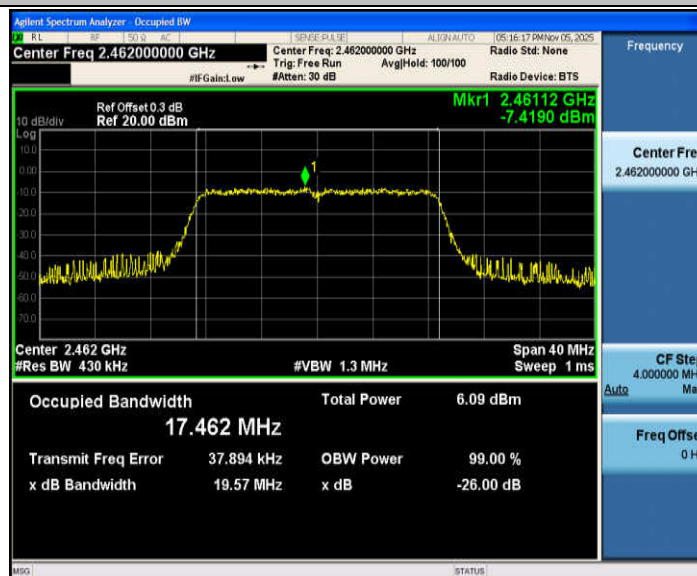
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



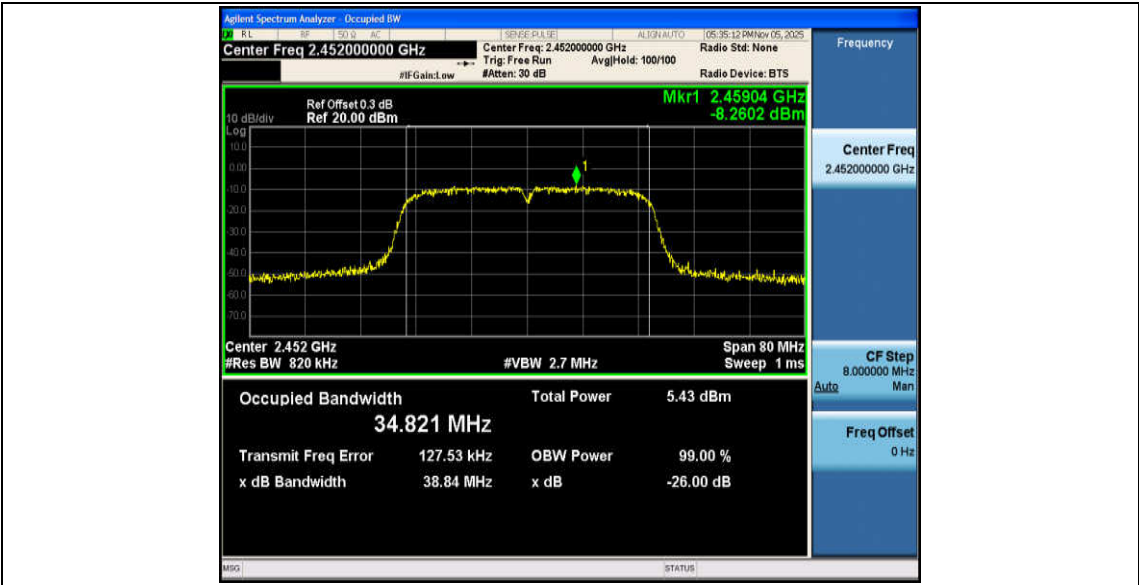
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_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	7.55	≤30.00	PASS
		2437	7.29	≤30.00	PASS
		2462	7.63	≤30.00	PASS
11G	Ant1	2412	5.93	≤30.00	PASS
		2437	6.04	≤30.00	PASS
		2462	6.15	≤30.00	PASS
11N20SISO	Ant1	2412	6.31	≤30.00	PASS
		2437	6.38	≤30.00	PASS
		2462	6.50	≤30.00	PASS
11N40SISO	Ant1	2422	6.18	≤30.00	PASS
		2437	6.59	≤30.00	PASS
		2452	6.48	≤30.00	PASS
11AX20SISO	Ant1	2412	6.90	≤30.00	PASS
		2437	7.02	≤30.00	PASS
		2462	7.30	≤30.00	PASS
11AX40SISO	Ant1	2422	5.72	≤30.00	PASS
		2437	5.48	≤30.00	PASS
		2452	5.63	≤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	-21.31	≤8.00	PASS
		2437	-22.01	≤8.00	PASS
		2462	-21.20	≤8.00	PASS
11G	Ant1	2412	-28.54	≤8.00	PASS
		2437	-28.30	≤8.00	PASS
		2462	-28.17	≤8.00	PASS
11N20SISO	Ant1	2412	-28.24	≤8.00	PASS
		2437	-28.08	≤8.00	PASS
		2462	-27.90	≤8.00	PASS
11N40SISO	Ant1	2422	-29.47	≤8.00	PASS
		2437	-28.50	≤8.00	PASS
		2452	-28.93	≤8.00	PASS
11AX20SISO	Ant1	2412	-27.61	≤8.00	PASS
		2437	-27.49	≤8.00	PASS
		2462	-27.14	≤8.00	PASS
11AX40SISO	Ant1	2422	-28.96	≤8.00	PASS
		2437	-30.40	≤8.00	PASS
		2452	-30.29	≤8.00	PASS

Test Graphs

11B_Ant1_2412



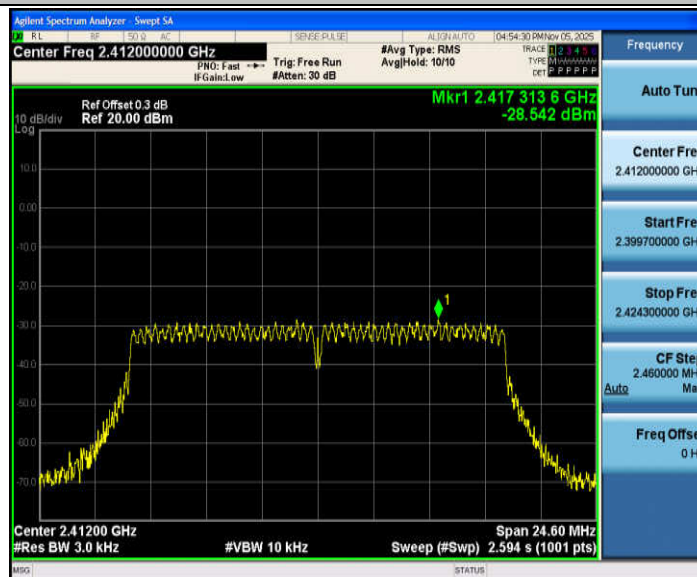
11B_Ant1_2437



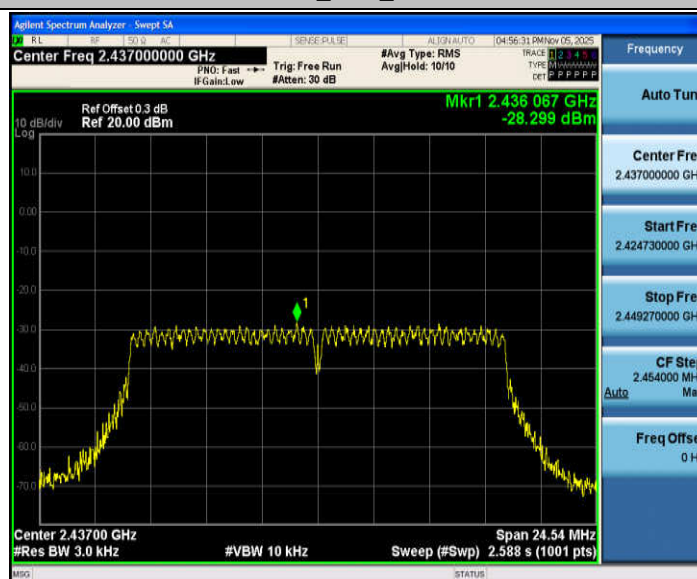
11B_Ant1_2462



11G_Ant1_2412



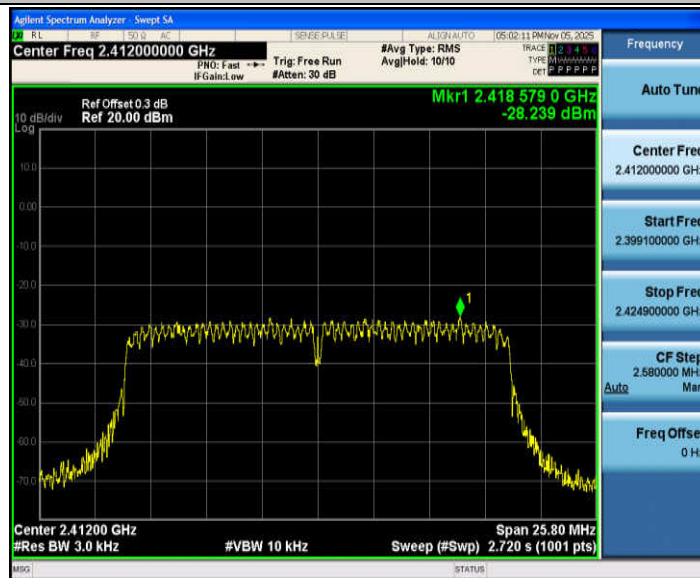
11G_Ant1_2437



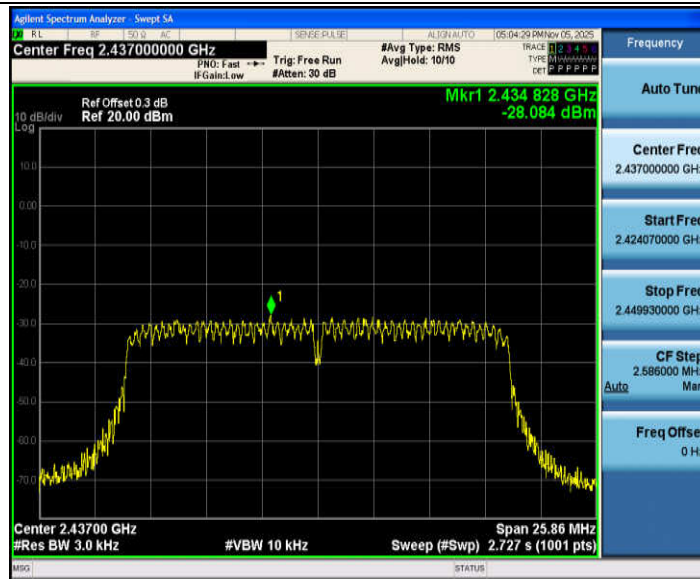
11G_Ant1_2462



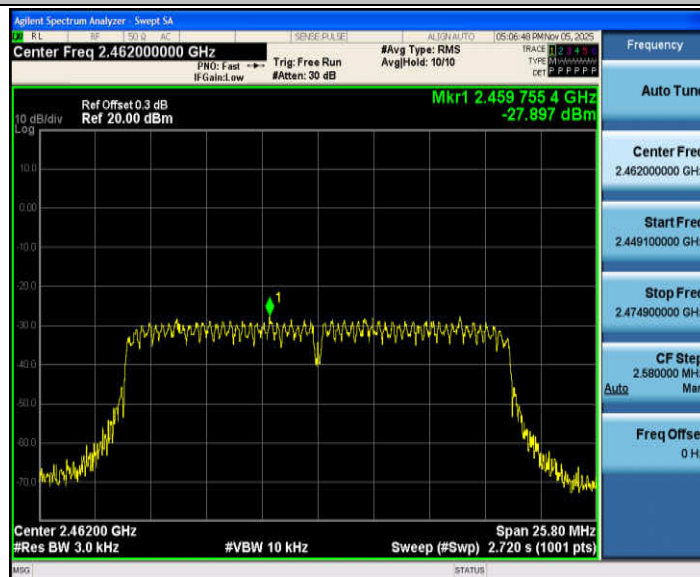
11N20SISO_Ant1_2412



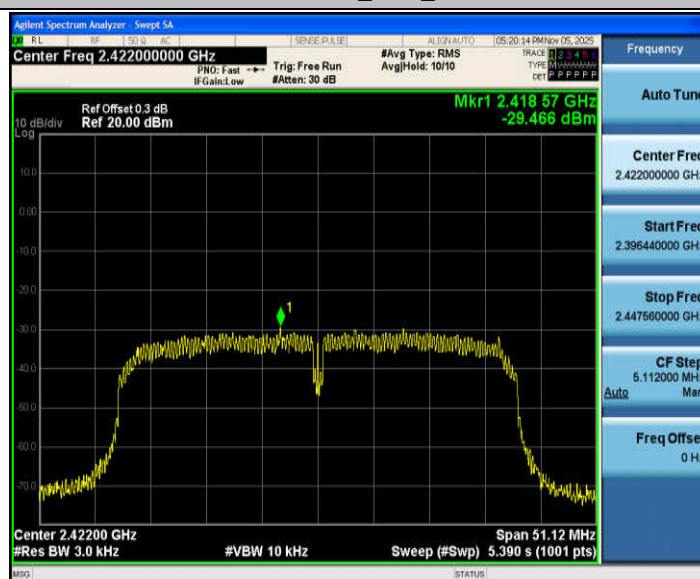
11N20SISO_Ant1_2437



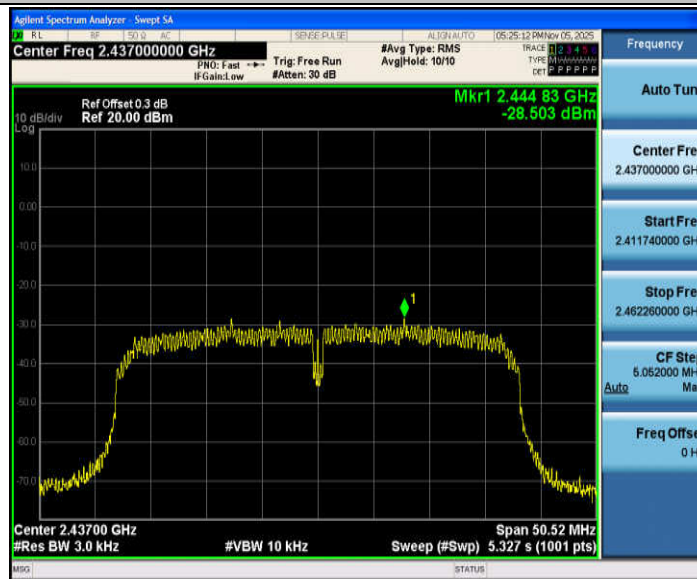
11N20SISO_Ant1_2462



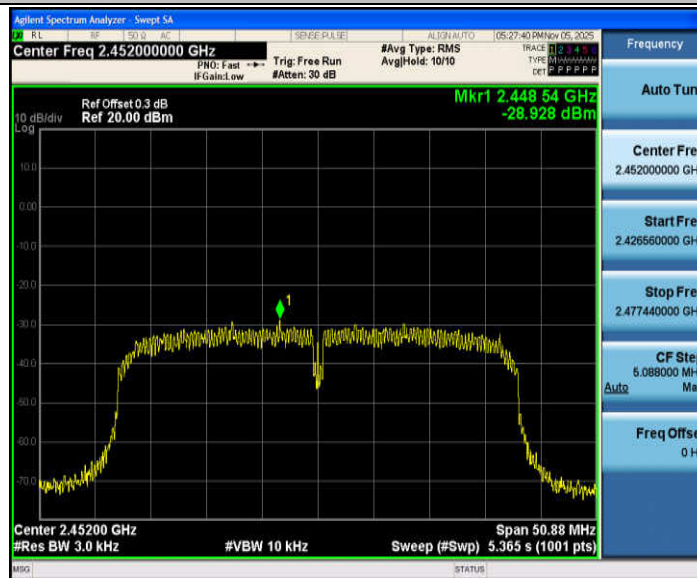
11N40SISO_Ant1_2422



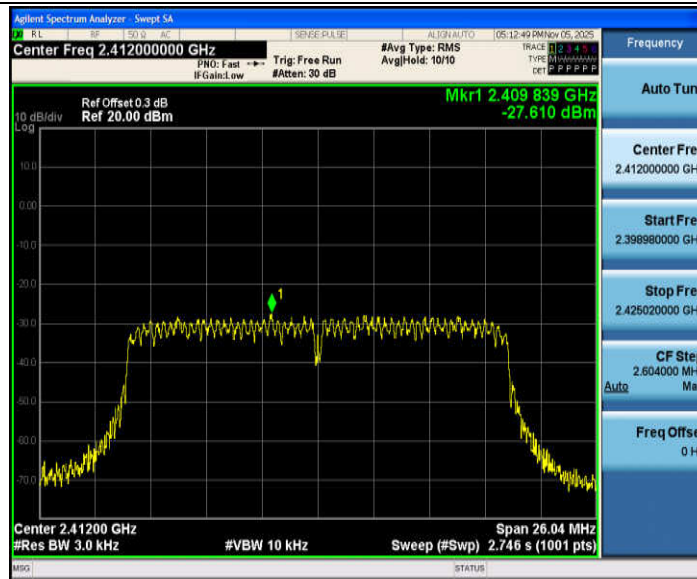
11N40SISO_Ant1_2437



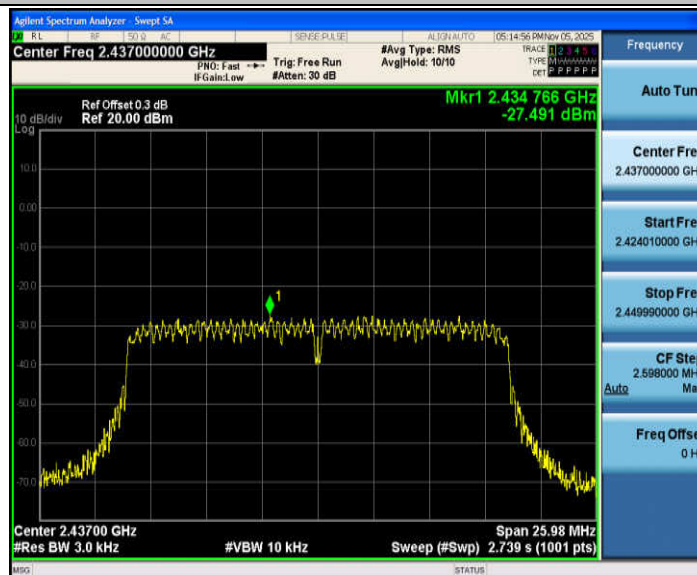
11N40SISO_Ant1_2452



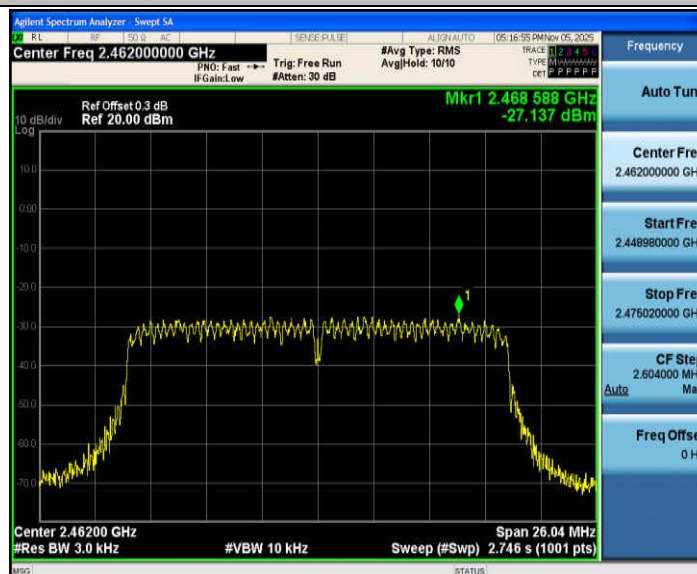
11AX20SISO_Ant1_2412



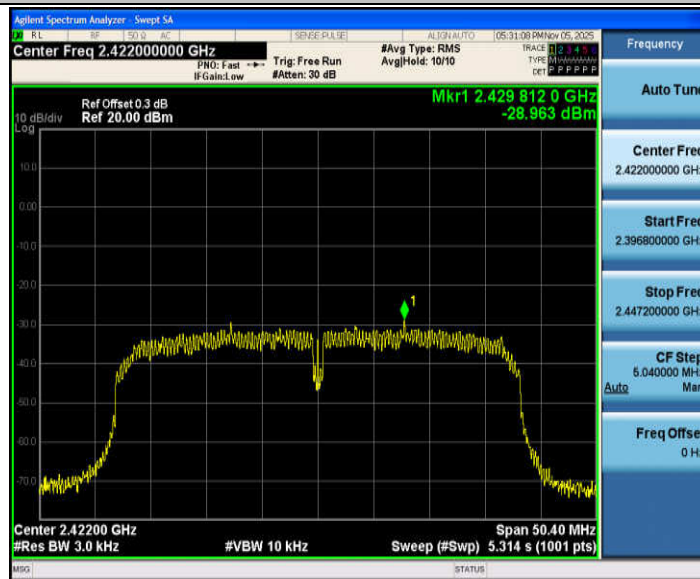
11AX20SISO_Ant1_2437



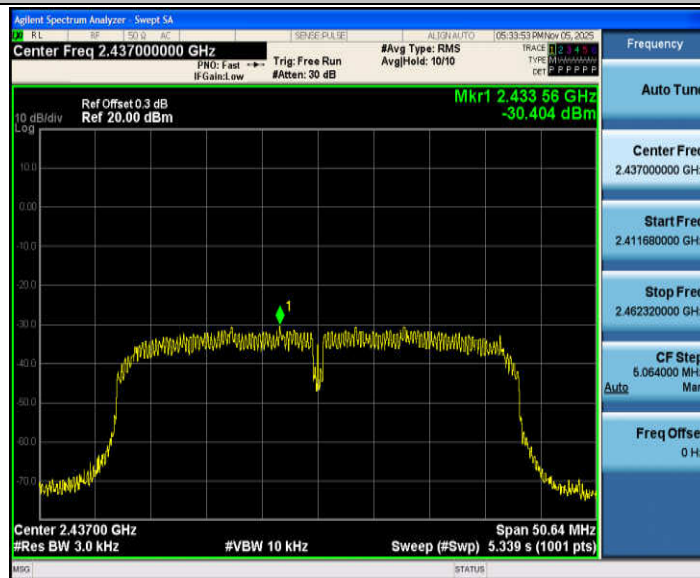
11AX20SISO_Ant1_2462



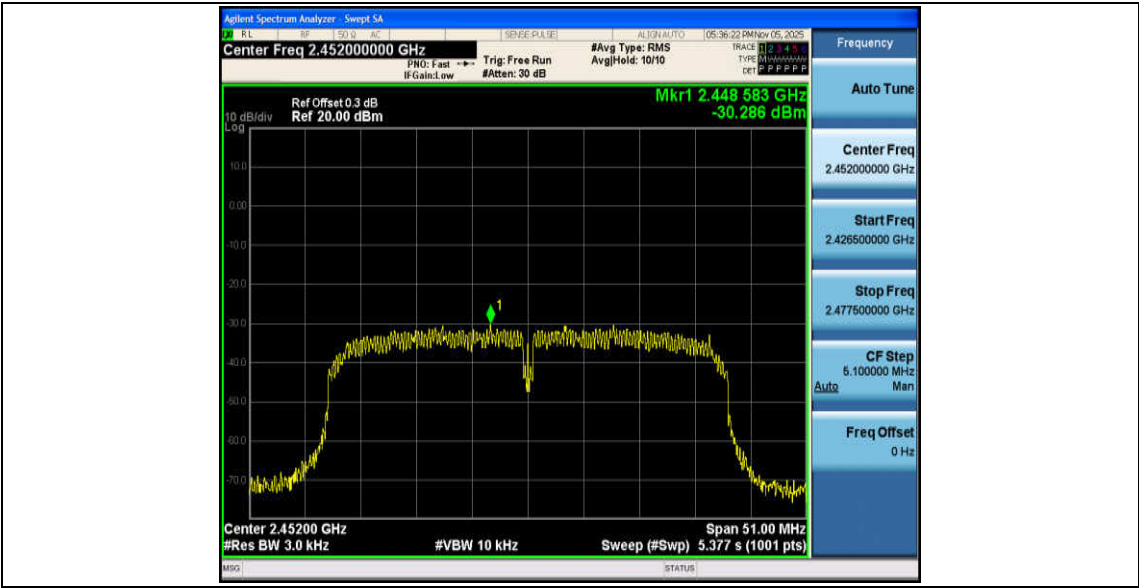
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



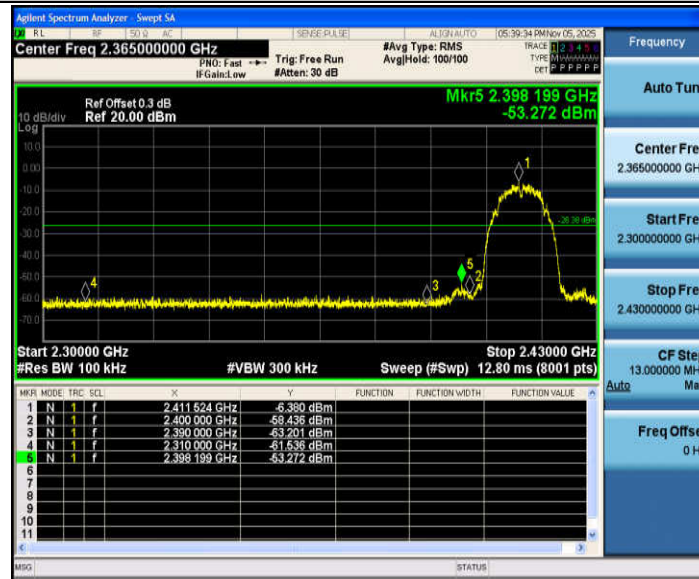
Appendix E: Band edge measurements

Test Result

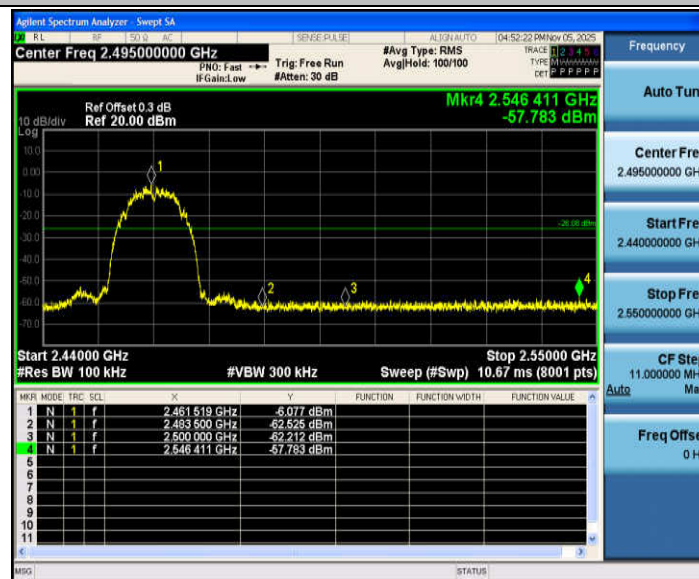
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.38	-53.27	≤-26.38	PASS
		High	2462	-6.08	-57.78	≤-26.08	PASS
11G	Ant1	Low	2412	-14.27	-51.02	≤-34.27	PASS
		High	2462	-14.48	-55.3	≤-34.48	PASS
11N20SISO	Ant1	Low	2412	-14.26	-51.87	≤-34.26	PASS
		High	2462	-13.88	-57.09	≤-33.88	PASS
11N40SISO	Ant1	Low	2422	-17.14	-53.26	≤-37.14	PASS
		High	2452	-16.72	-56.77	≤-36.72	PASS
11AX20SISO	Ant1	Low	2412	-13.93	-50.91	≤-33.93	PASS
		High	2462	-13.21	-57.41	≤-33.21	PASS
11AX40SISO	Ant1	Low	2422	-17.63	-52.75	≤-37.63	PASS
		High	2452	-17.39	-57.05	≤-37.39	PASS

Test Graphs

11B_Ant1_Low_2412



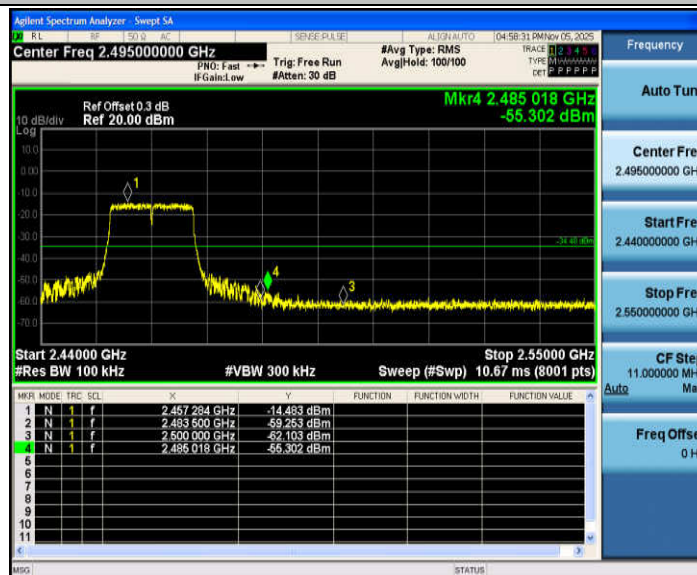
11B_Ant1_High_2462



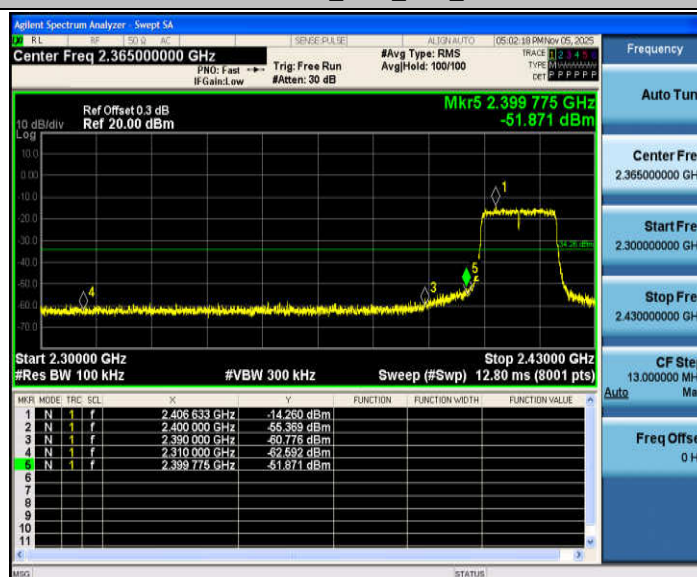
11G_Ant1_Low_2412



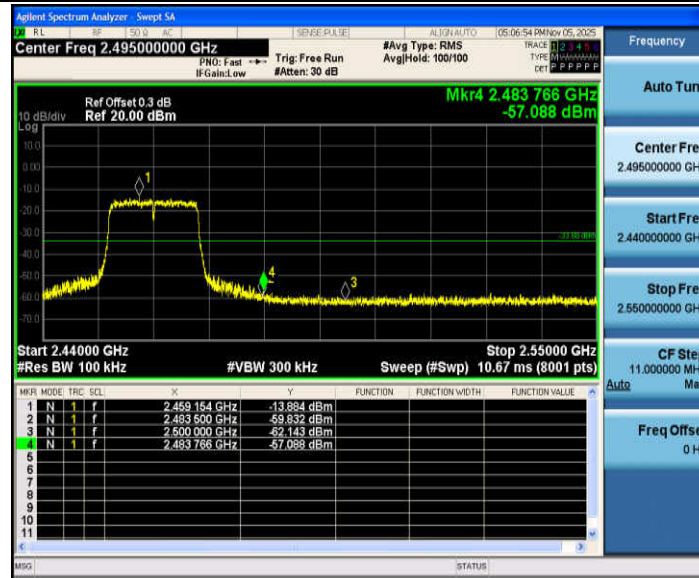
11G_Ant1_High_2462



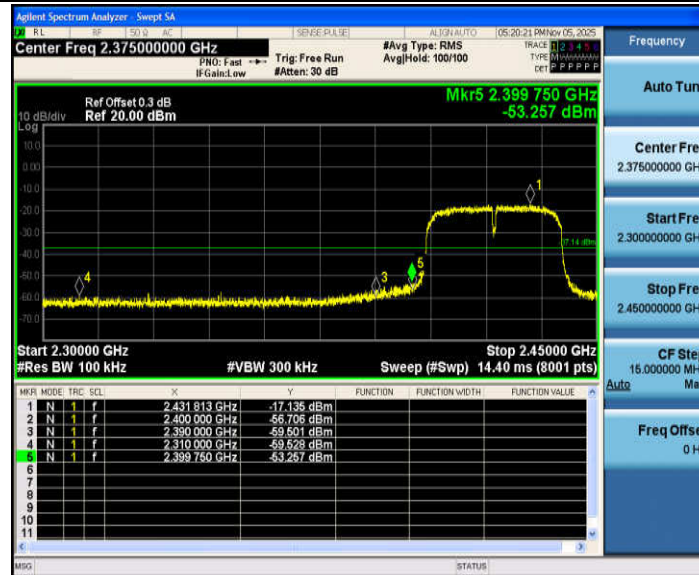
11N20SISO_Ant1_Low_2412



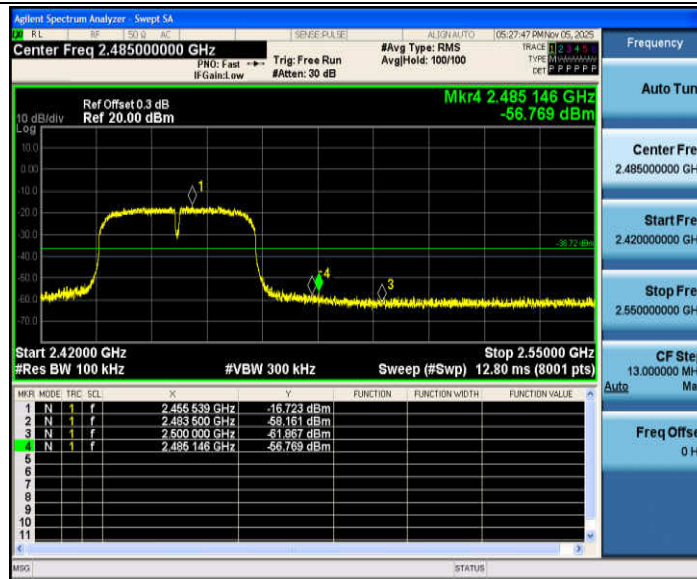
11N20SISO_Ant1_High_2462



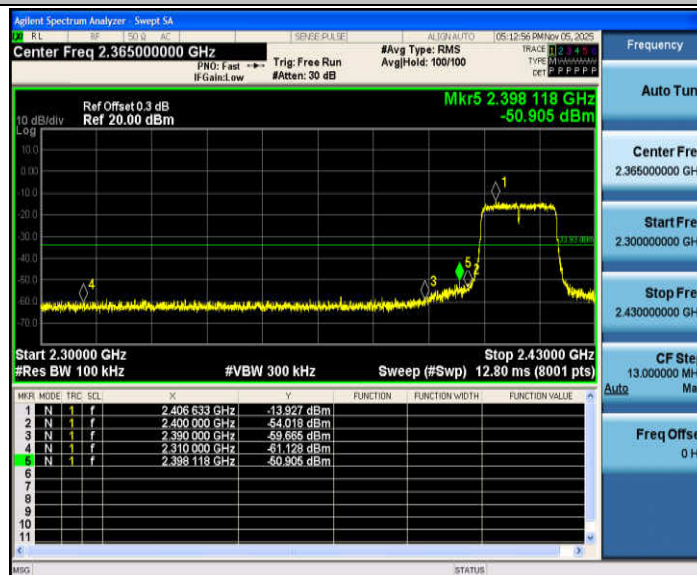
11N40SISO_Ant1_Low_2422



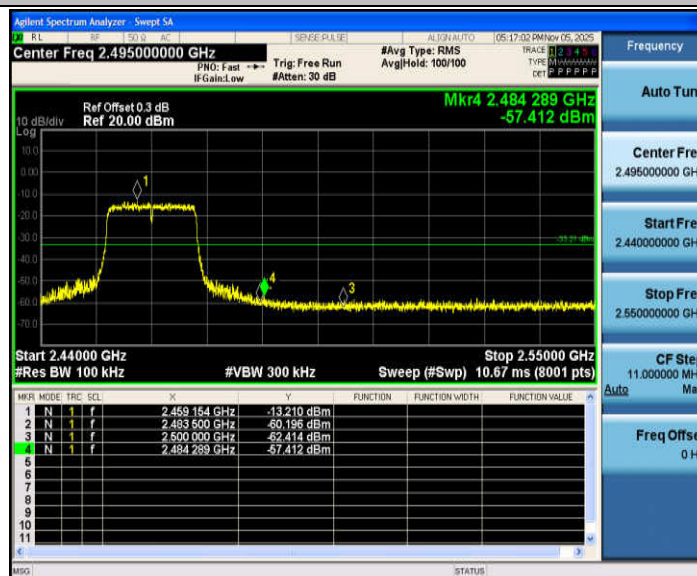
11N40SISO_Ant1_High_2452



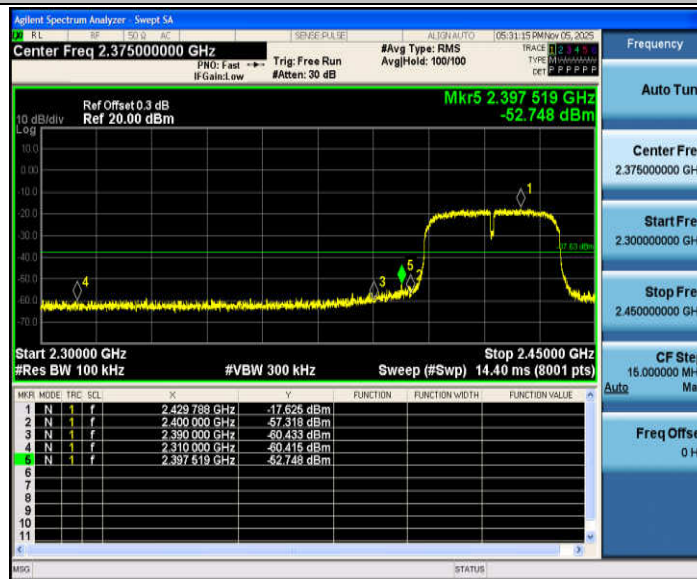
11AX20SISO_Ant1_Low_2412



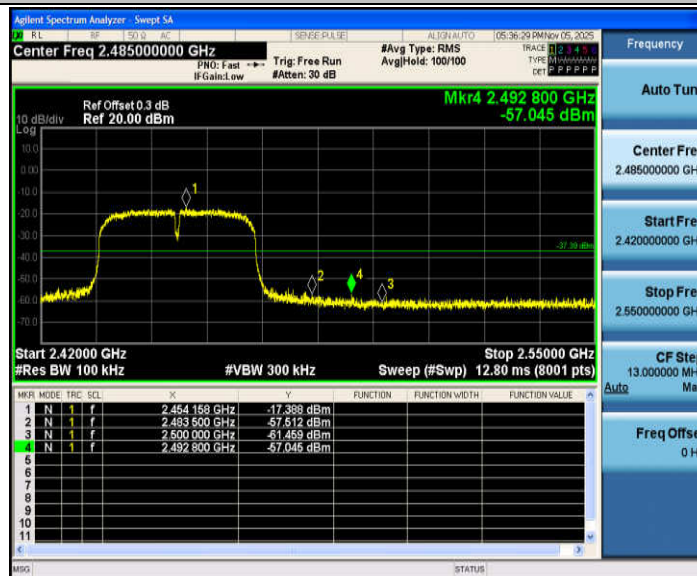
11AX20SISO_Ant1_High_2462



11AX40SISO_Ant1_Low_2422



11AX40SISO_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	-6.94	-6.94	---	PASS
			30~1000	-6.94	-60.34	≤-26.94	PASS
			1000~26500	-6.94	-45.28	≤-26.94	PASS
		2437	Reference	-7.79	-7.79	---	PASS
			30~1000	-7.79	-59.9	≤-27.79	PASS
			1000~26500	-7.79	-45.46	≤-27.79	PASS
		2462	Reference	-7.33	-7.33	---	PASS
			30~1000	-7.33	-60.41	≤-27.33	PASS
			1000~26500	-7.33	-46.16	≤-27.33	PASS
11G	Ant1	2412	Reference	-15.03	-15.03	---	PASS
			30~1000	-15.03	-64.56	≤-35.03	PASS
			1000~26500	-15.03	-45.22	≤-35.03	PASS
		2437	Reference	-14.85	-14.85	---	PASS
			30~1000	-14.85	-64.63	≤-34.85	PASS
			1000~26500	-14.85	-45.55	≤-34.85	PASS
		2462	Reference	-14.80	-14.80	---	PASS
			30~1000	-14.80	-63.58	≤-34.8	PASS
			1000~26500	-14.80	-45.96	≤-34.8	PASS
11N20SISO	Ant1	2412	Reference	-14.75	-14.75	---	PASS
			30~1000	-14.75	-64.57	≤-34.75	PASS
			1000~26500	-14.75	-45.27	≤-34.75	PASS
		2437	Reference	-15.15	-15.15	---	PASS
			30~1000	-15.15	-63.84	≤-35.15	PASS
			1000~26500	-15.15	-45.64	≤-35.15	PASS
		2462	Reference	-14.82	-14.82	---	PASS
			30~1000	-14.82	-64.16	≤-34.82	PASS
			1000~26500	-14.82	-45.88	≤-34.82	PASS
11N40SISO	Ant1	2422	Reference	-17.12	-17.12	---	PASS
			30~1000	-17.12	-64.27	≤-37.12	PASS
			1000~26500	-17.12	-45.14	≤-37.12	PASS
		2437	Reference	-16.86	-16.86	---	PASS
			30~1000	-16.86	-65.17	≤-36.86	PASS
			1000~26500	-16.86	-44.82	≤-36.86	PASS
		2452	Reference	-16.69	-16.69	---	PASS
			30~1000	-16.69	-65.57	≤-36.69	PASS
			1000~26500	-16.69	-45.68	≤-36.69	PASS
11AX20SISO	Ant1	2412	Reference	-14.90	-14.90	---	PASS

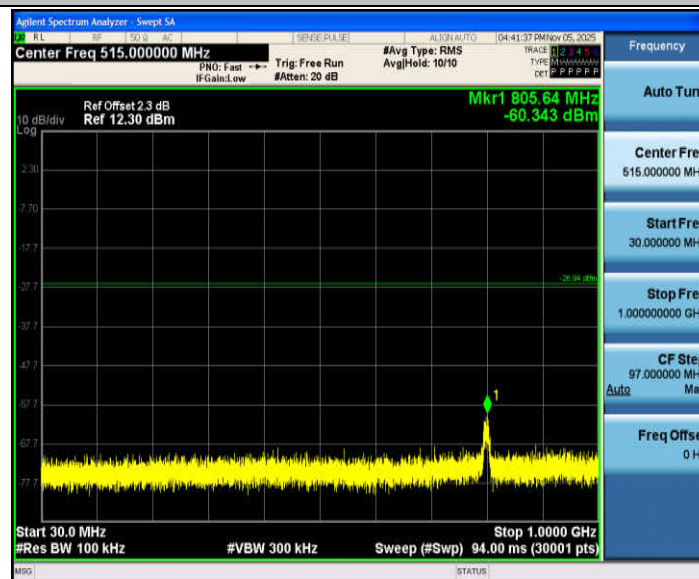
			30~1000	-14.90	-62.9	≤ -34.9	PASS
			1000~26500	-14.90	-45.08	≤ -34.9	PASS
		2437	Reference	-14.39	-14.39	---	PASS
			30~1000	-14.39	-64.01	≤ -34.39	PASS
			1000~26500	-14.39	-45.21	≤ -34.39	PASS
		2462	Reference	-14.05	-14.05	---	PASS
			30~1000	-14.05	-64.27	≤ -34.05	PASS
			1000~26500	-14.05	-45.74	≤ -34.05	PASS
11AX40SISO	Ant1	2422	Reference	-17.92	-17.92	---	PASS
			30~1000	-17.92	-66	≤ -37.92	PASS
			1000~26500	-17.92	-45.21	≤ -37.92	PASS
		2437	Reference	-17.98	-17.98	---	PASS
			30~1000	-17.98	-65.2	≤ -37.98	PASS
			1000~26500	-17.98	-45.54	≤ -37.98	PASS
		2452	Reference	-17.90	-17.90	---	PASS
			30~1000	-17.90	-64.81	≤ -37.9	PASS
			1000~26500	-17.90	-45.86	≤ -37.9	PASS

Test Graphs

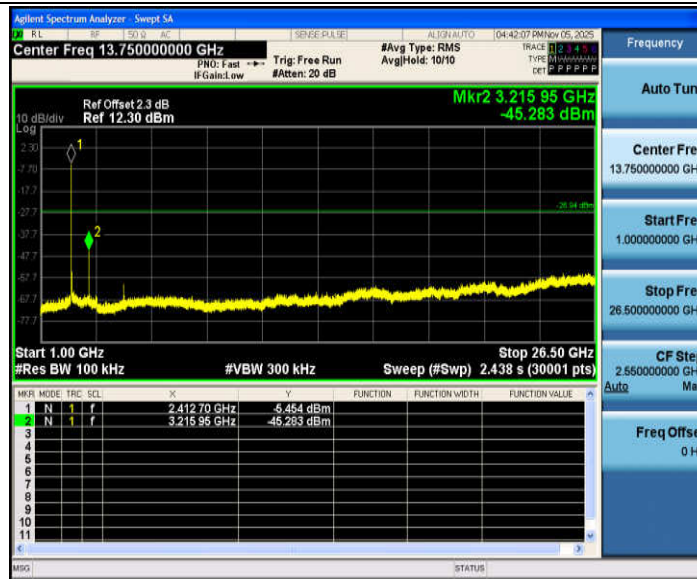
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



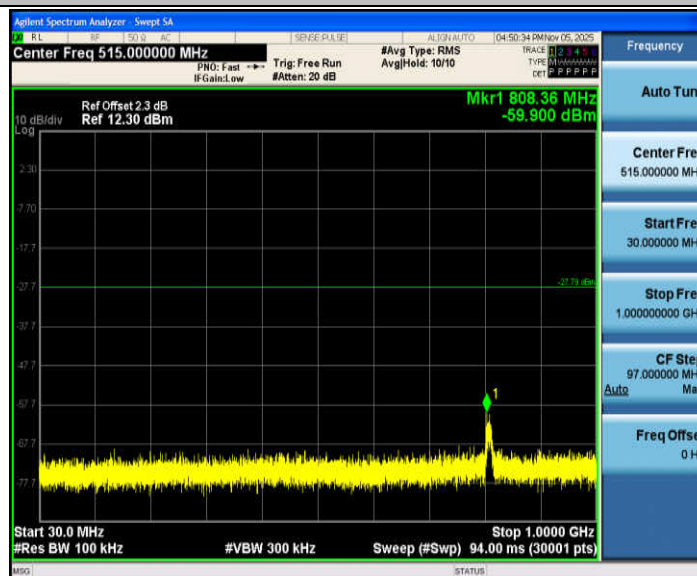
11B_Ant1_2412_1000~26500



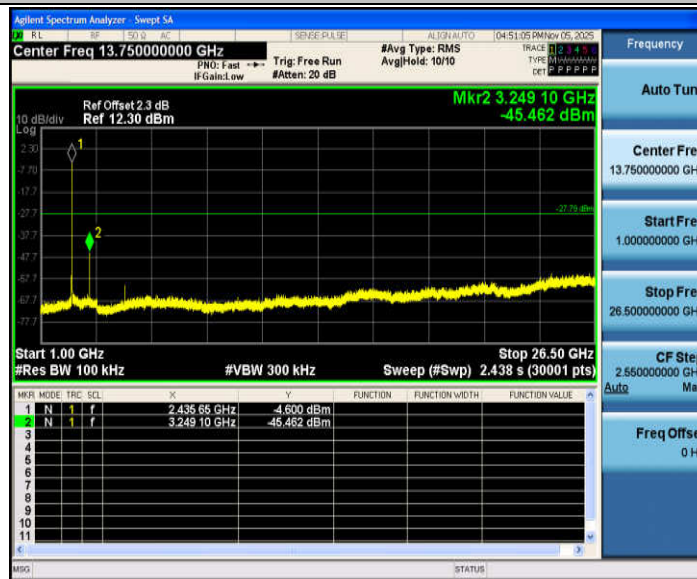
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



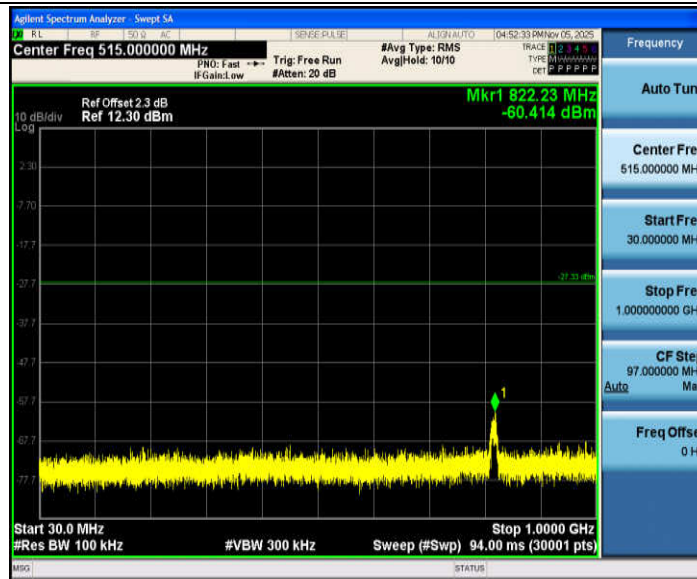
11B_Ant1_2437_1000~26500



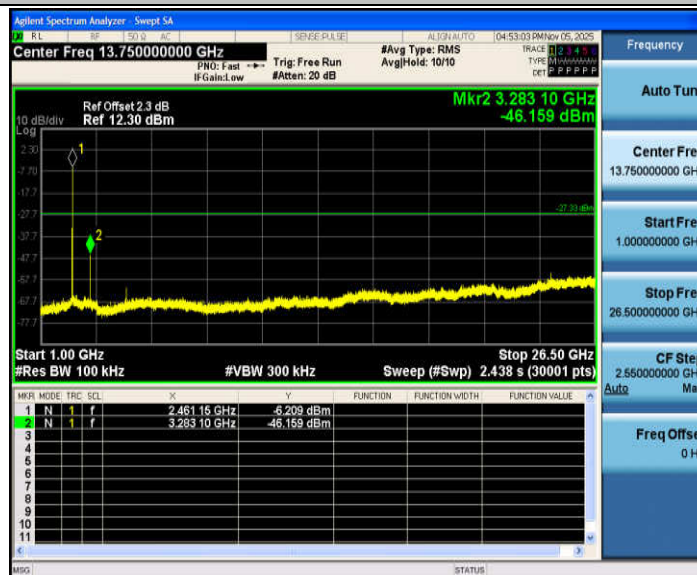
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



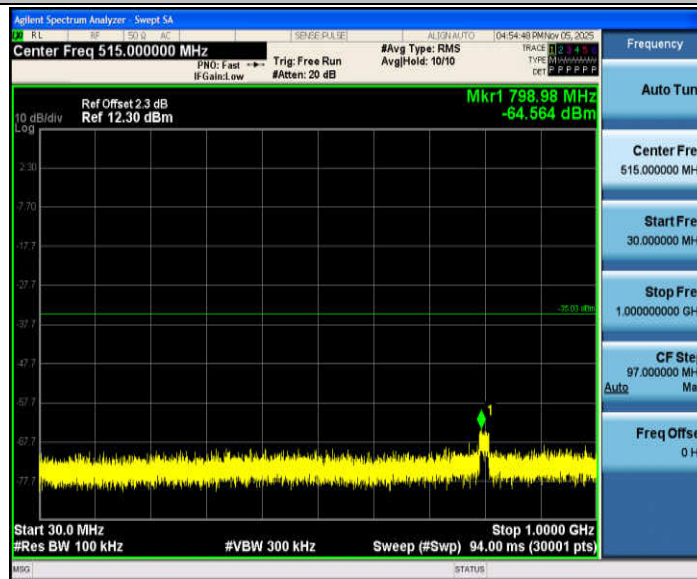
11B_Ant1_2462_1000~26500



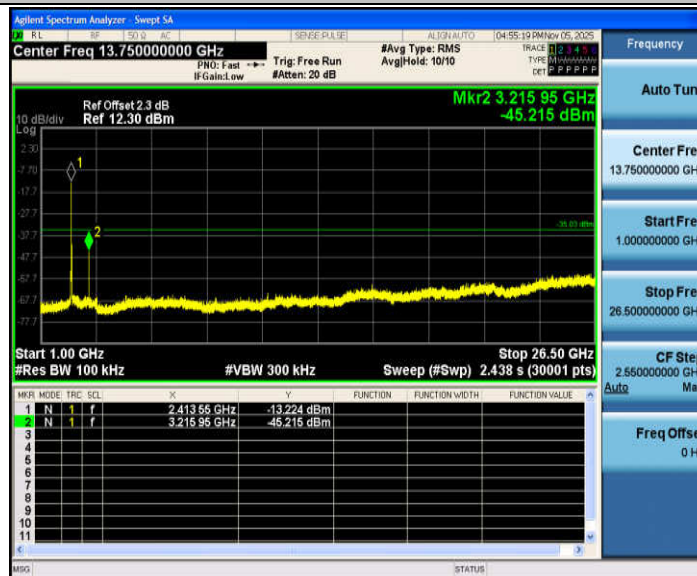
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference