

Appendix: 2.4G WIFI

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Appendix A: DTS Bandwidth

Test Result

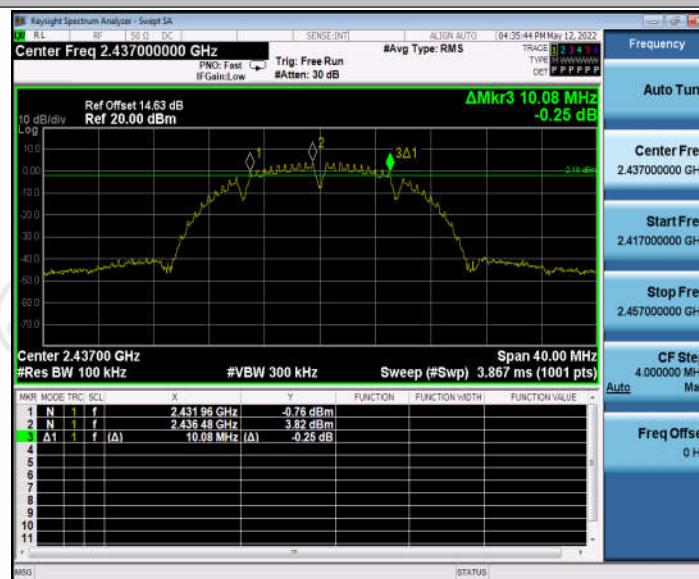
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SI SO	Ant1	2412	17.040	2403.480	2420.520	0.5	PASS
		2437	17.040	2428.480	2445.520	0.5	PASS
		2462	17.040	2453.480	2470.520	0.5	PASS
11N40SI SO	Ant1	2422	35.440	2404.400	2439.840	0.5	PASS
		2437	35.680	2419.080	2454.760	0.5	PASS
		2452	35.680	2434.080	2469.760	0.5	PASS

Test Graphs

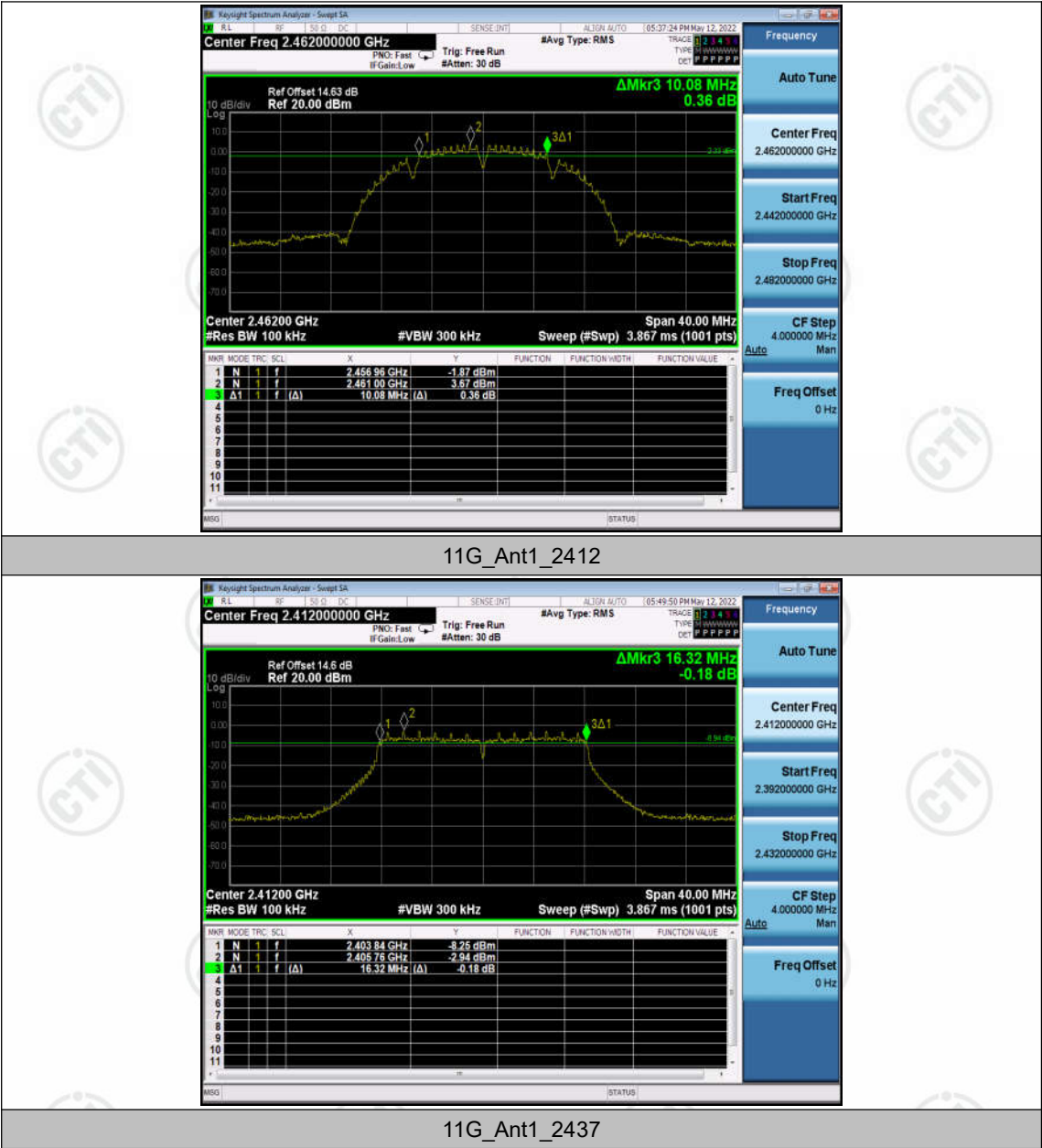
11B_Ant1_2412

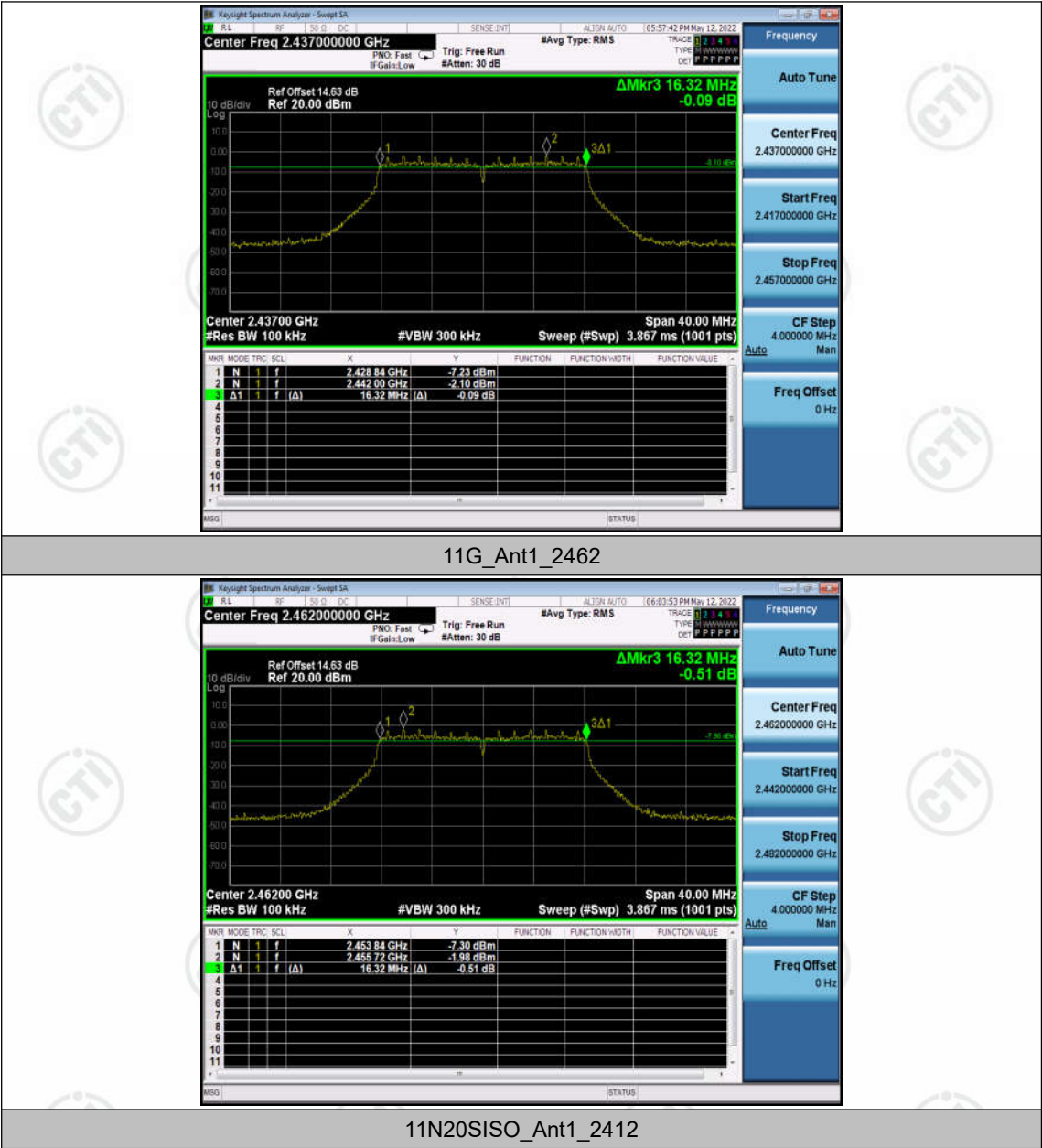


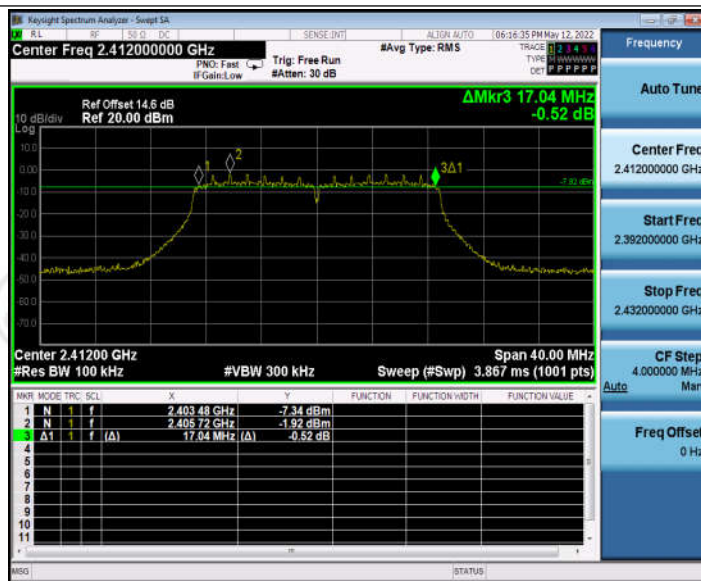
11B_Ant1_2437



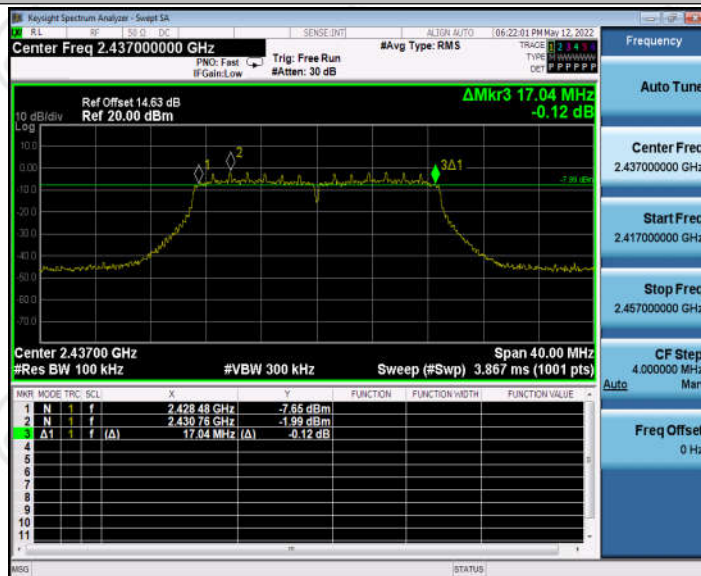
11B_Ant1_2462



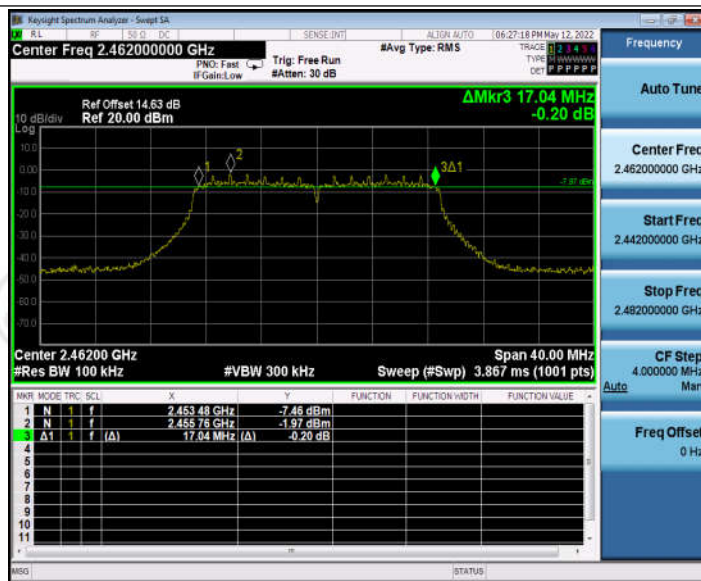




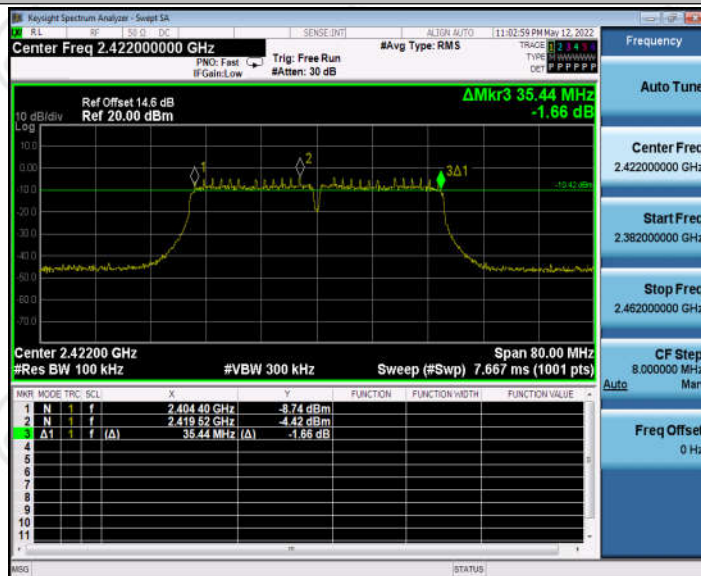
11N20SISO_Ant1_2437



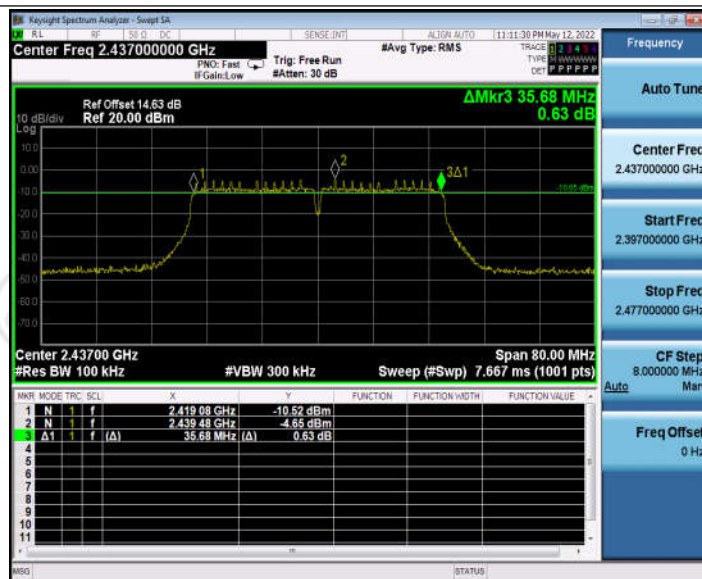
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

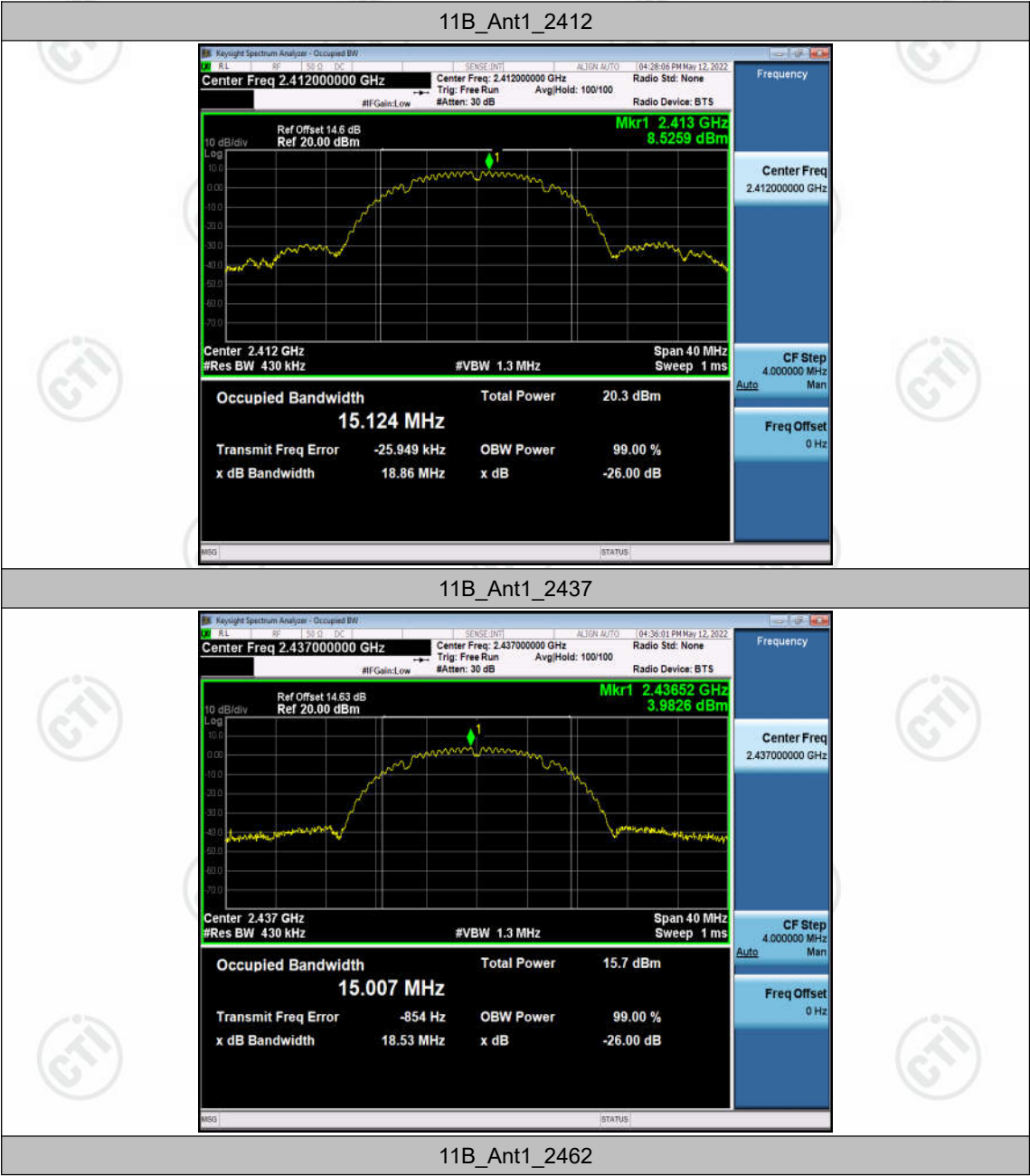


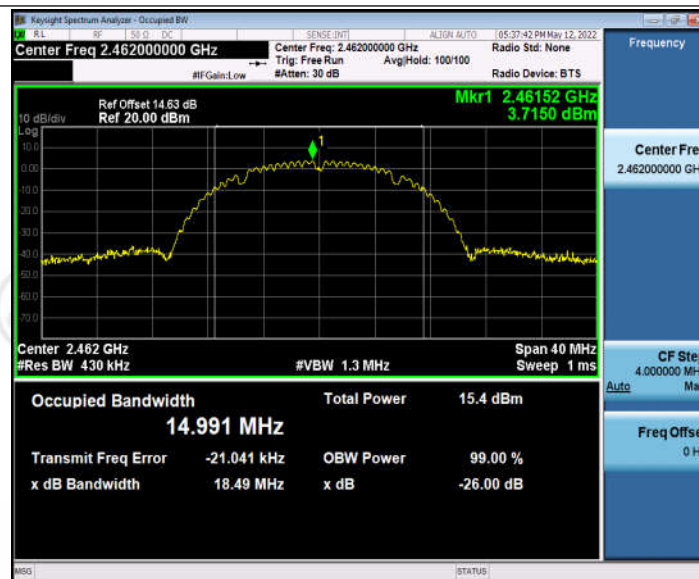
Appendix B: Occupied Channel Bandwidth

Test Result

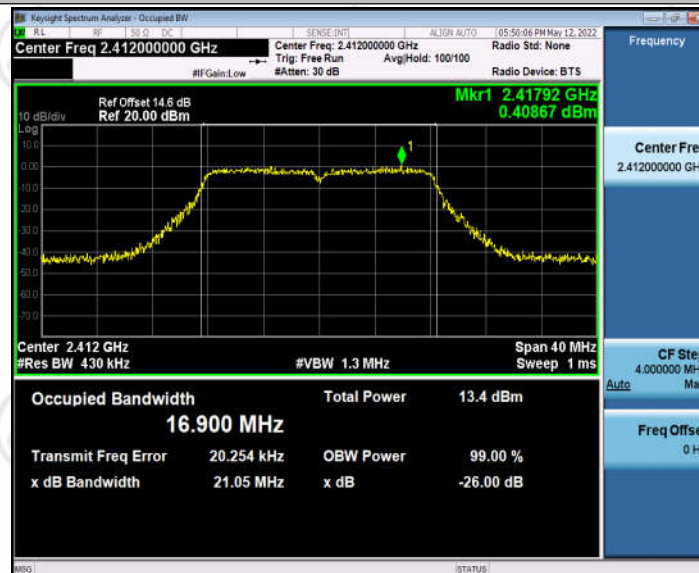
Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.124	2404.412	2419.536	---	---
		2437	15.007	2429.496	2444.503	---	---
		2462	14.991	2454.483	2469.474	---	---
11G	Ant1	2412	16.900	2403.570	2420.470	---	---
		2437	16.783	2428.578	2445.361	---	---
		2462	16.883	2453.535	2470.418	---	---
11N20SI SO	Ant1	2412	17.813	2403.104	2420.917	---	---
		2437	17.868	2428.053	2445.921	---	---
		2462	17.857	2453.060	2470.917	---	---
11N40SI SO	Ant1	2422	36.160	2403.953	2440.113	---	---
		2437	36.198	2418.882	2455.080	---	---
		2452	36.144	2433.921	2470.065	---	---

Test Graphs

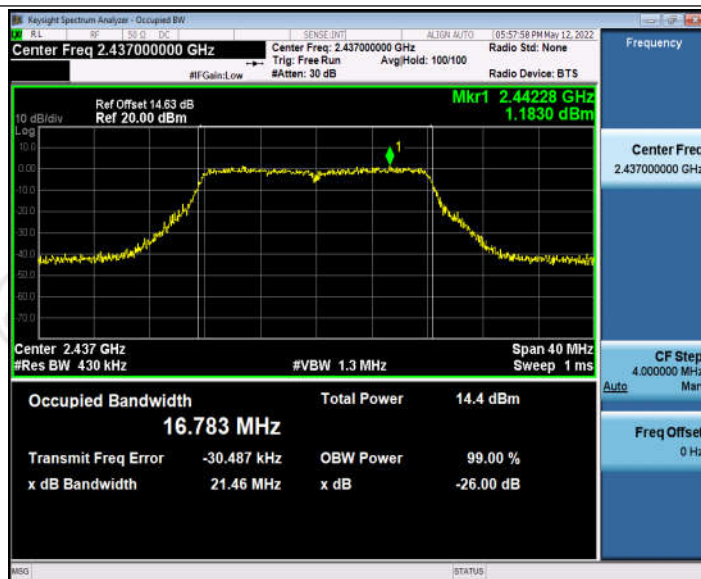




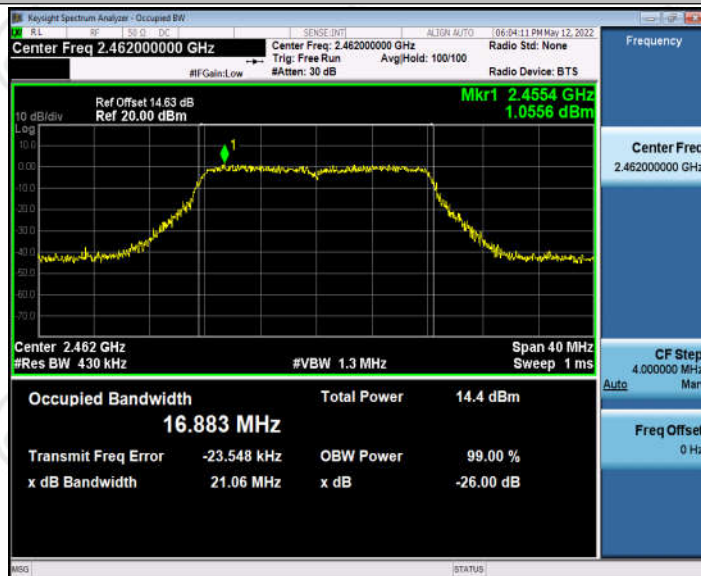
11G_Ant1_2412



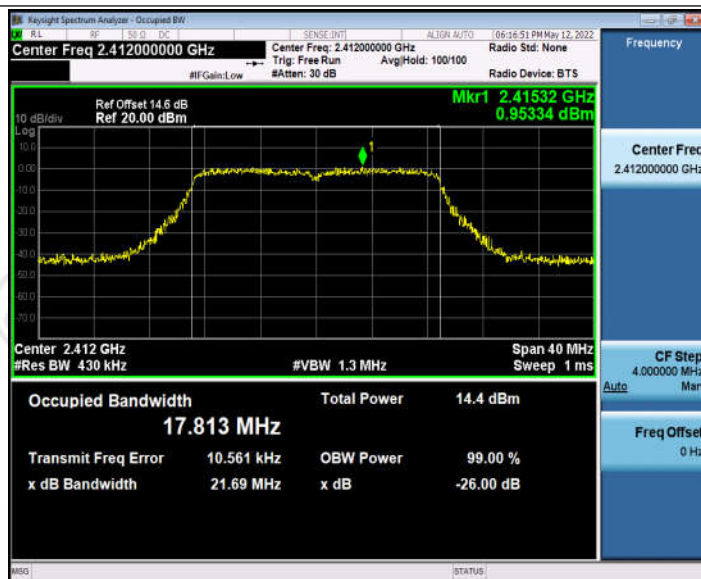
11G_Ant1_2437



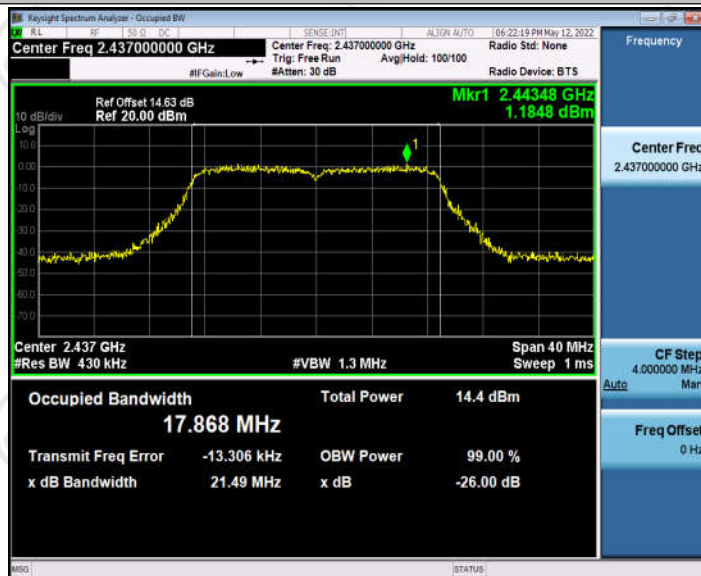
11G_Ant1_2462



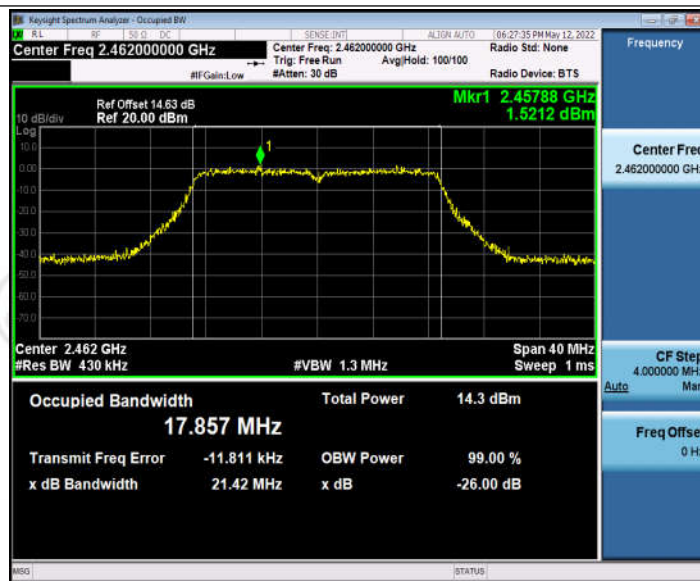
11N20SISO_Ant1_2412



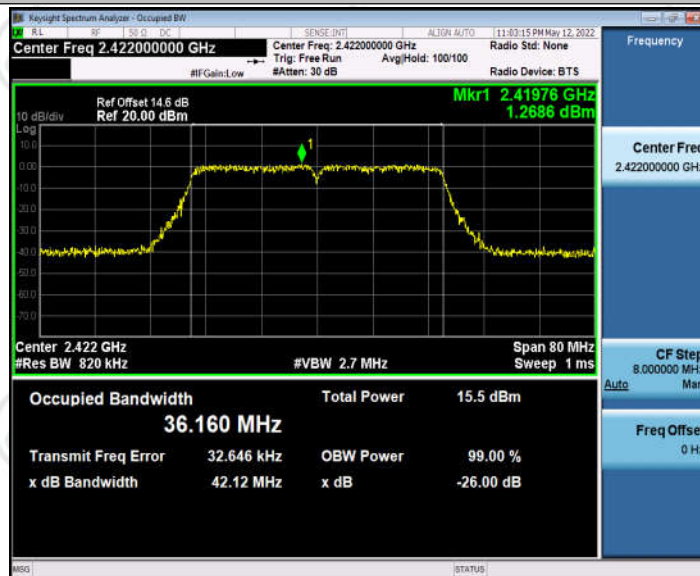
11N20SISO_Ant1_2437



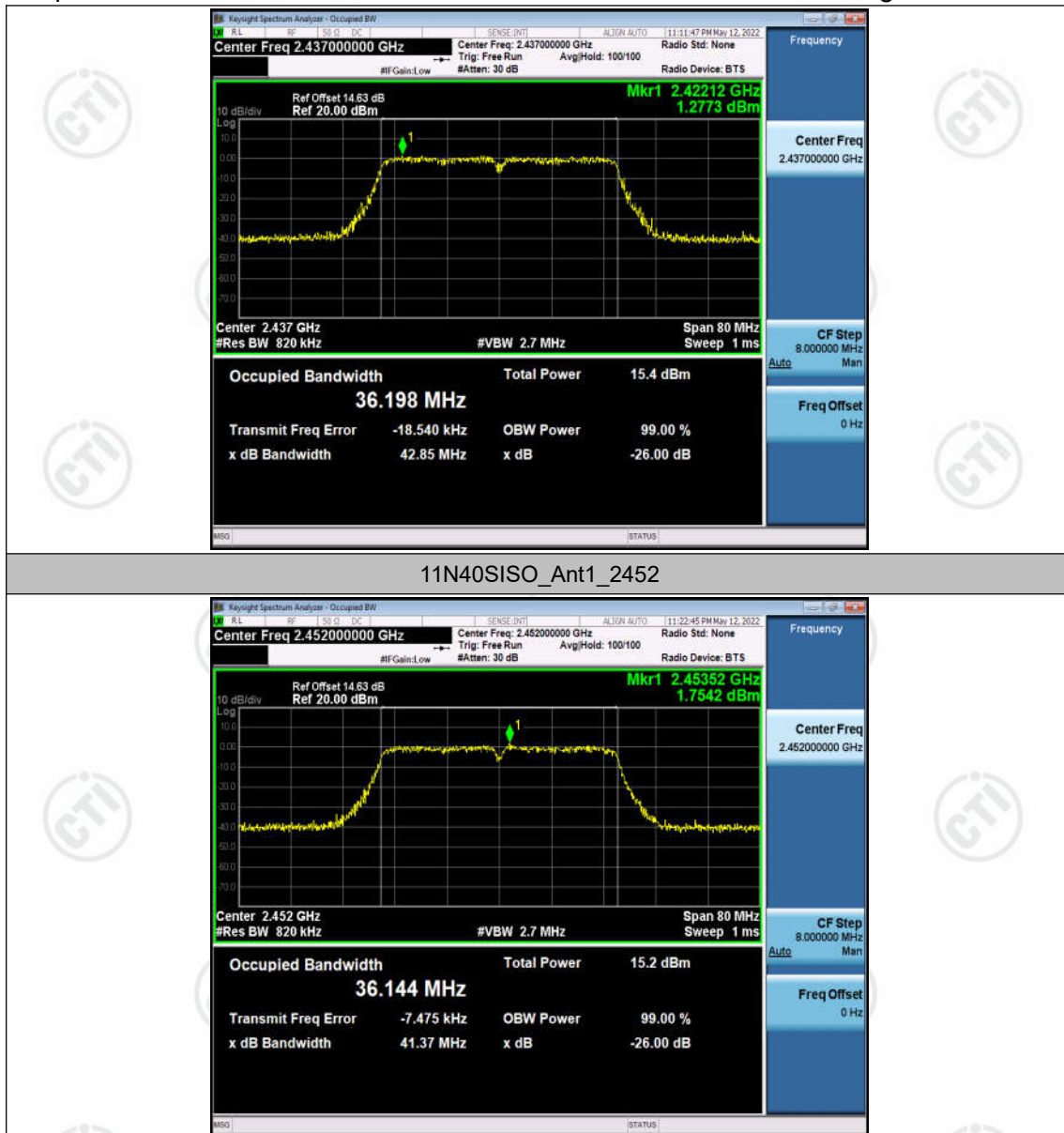
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	---	15.55	≤30.00	15.55	≤36.00	PASS
		2437	---	15.47	≤30.00	15.47	≤36.00	PASS
		2462	---	15.22	≤30.00	15.22	≤36.00	PASS
11G	Ant1	2412	---	15.28	≤30.00	15.28	≤36.00	PASS
		2437	---	15.19	≤30.00	15.19	≤36.00	PASS
		2462	---	15.17	≤30.00	15.17	≤36.00	PASS
11N20SISO	Ant1	2412	---	15.22	≤30.00	15.22	≤36.00	PASS
		2437	---	15.14	≤30.00	15.14	≤36.00	PASS
		2462	---	15.07	≤30.00	15.07	≤36.00	PASS
11N40SISO	Ant1	2422	---	15.79	≤30.00	15.79	≤36.00	PASS
		2437	---	15.68	≤30.00	15.68	≤36.00	PASS
		2452	---	15.51	≤30.00	15.51	≤36.00	PASS

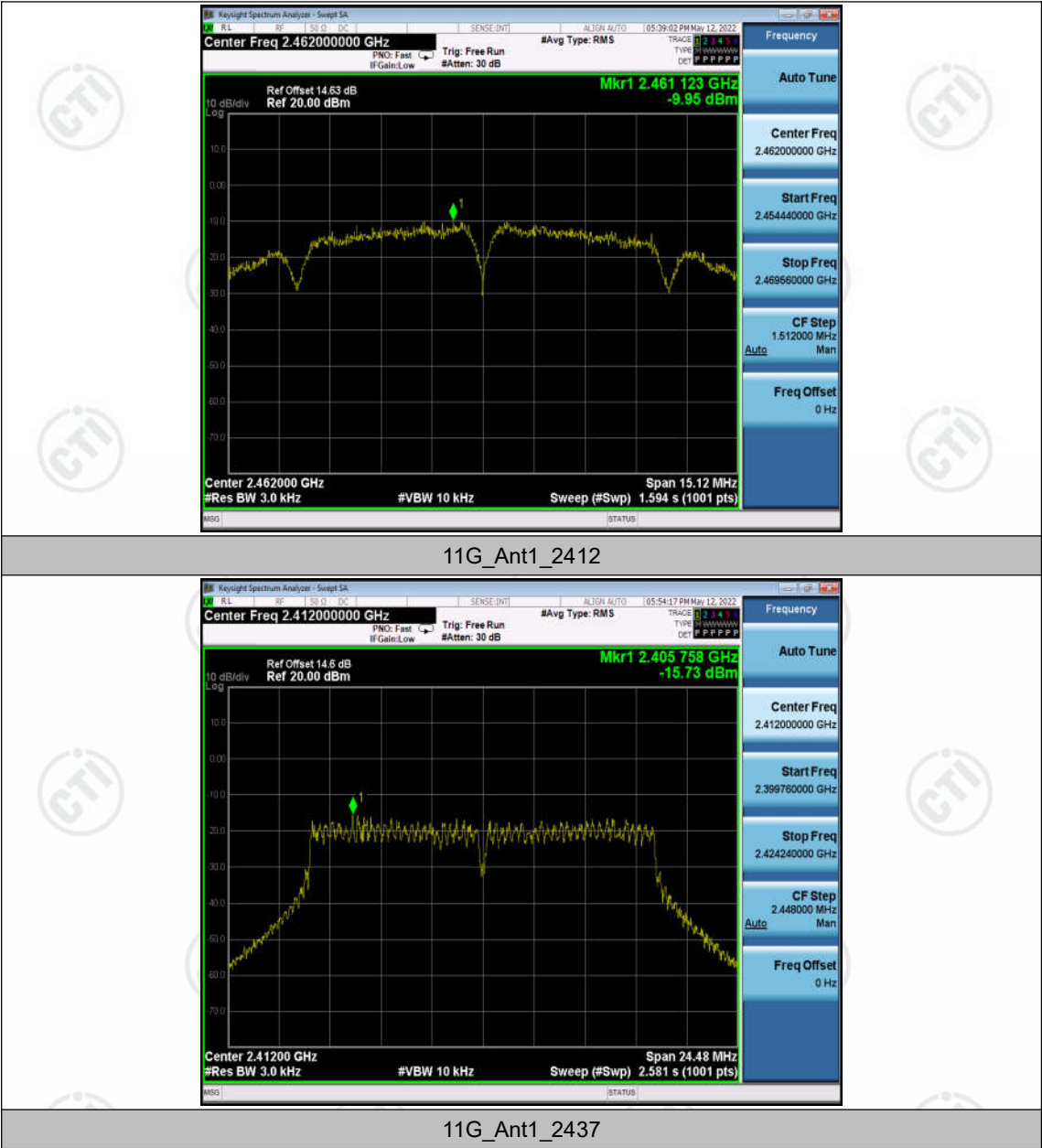
Appendix D: Maximum power spectral density

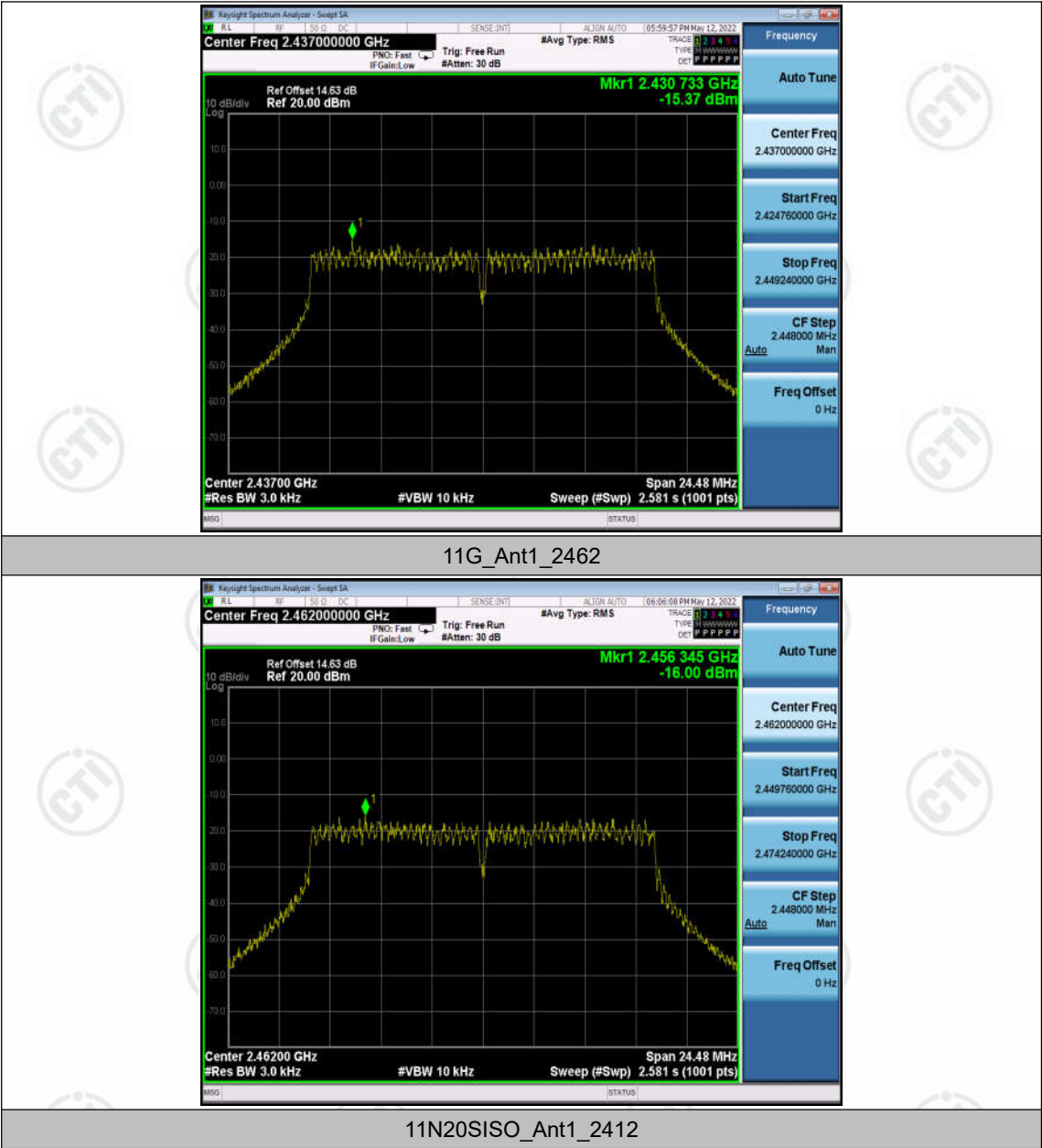
Test Result

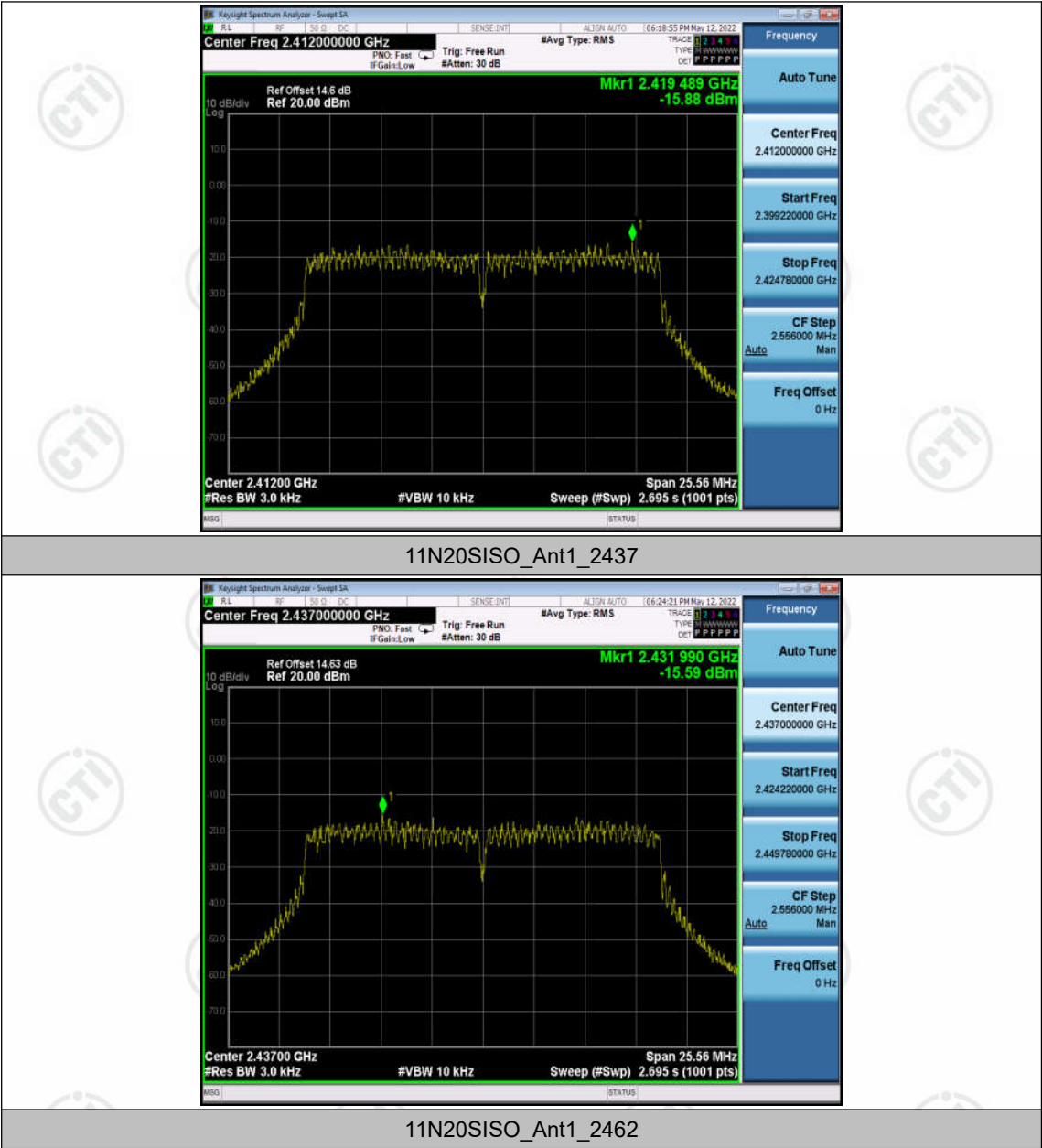
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.75	≤8.00	PASS
		2437	-9.05	≤8.00	PASS
		2462	-9.95	≤8.00	PASS
11G	Ant1	2412	-15.73	≤8.00	PASS
		2437	-15.37	≤8.00	PASS
		2462	-16	≤8.00	PASS
11N20SISO	Ant1	2412	-15.88	≤8.00	PASS
		2437	-15.59	≤8.00	PASS
		2462	-16.59	≤8.00	PASS
11N40SISO	Ant1	2422	-18.67	≤8.00	PASS
		2437	-18.25	≤8.00	PASS
		2452	-19.36	≤8.00	PASS

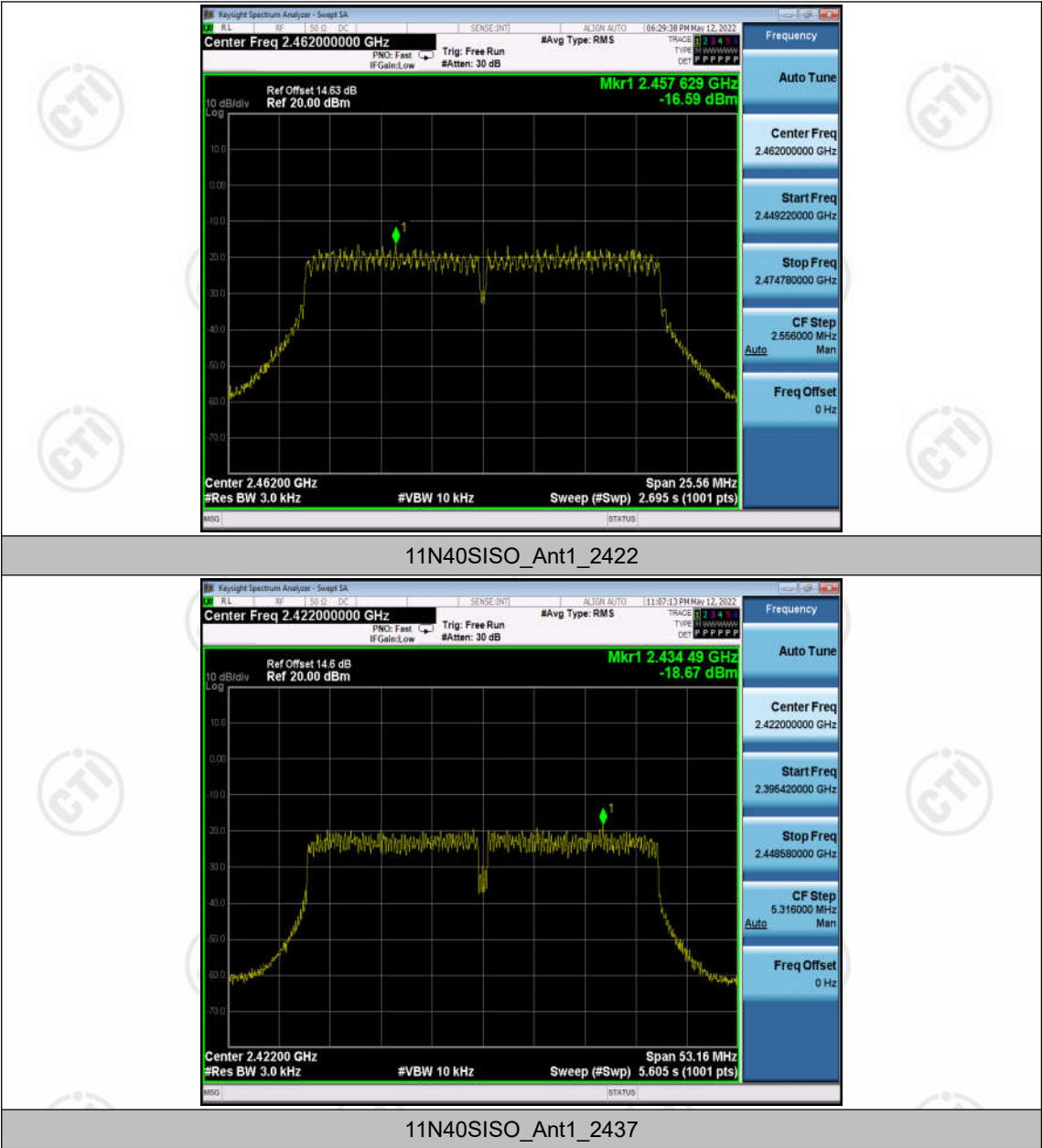
Test Graphs

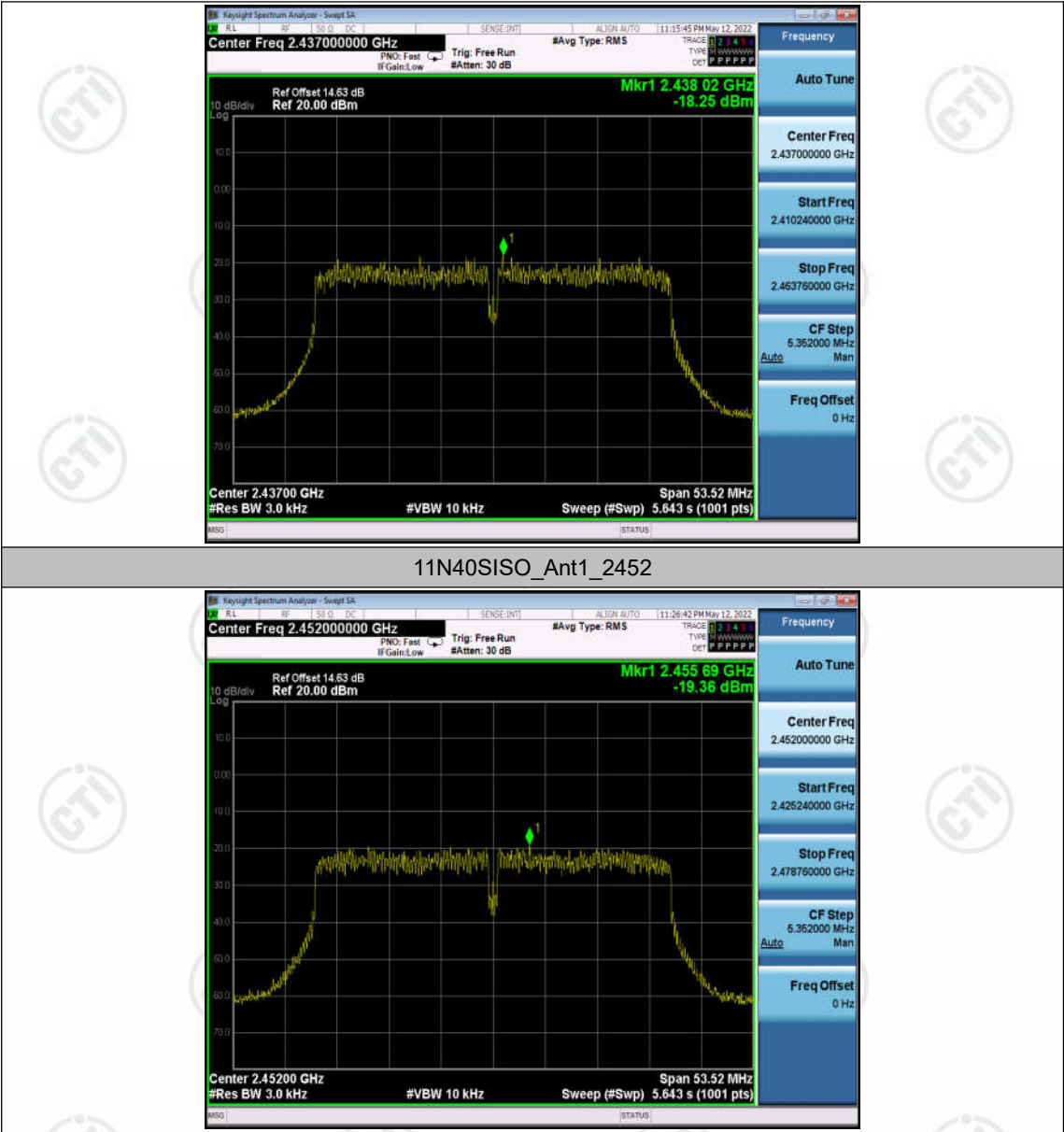












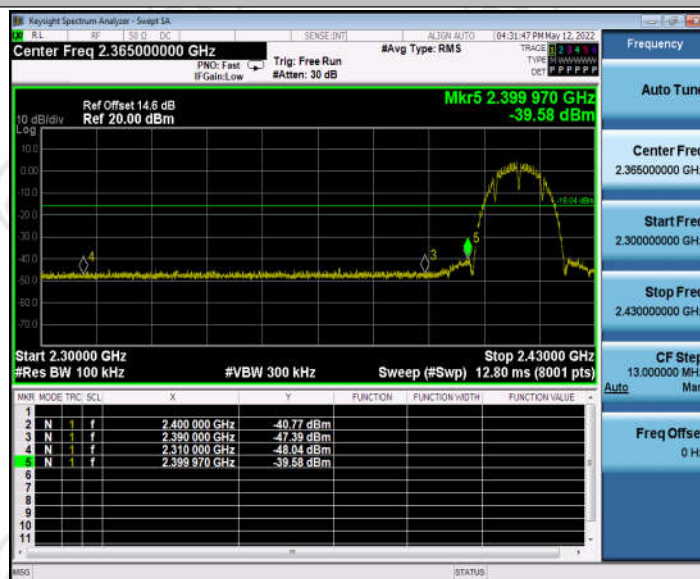
Appendix E: Band edge measurements

Test Result

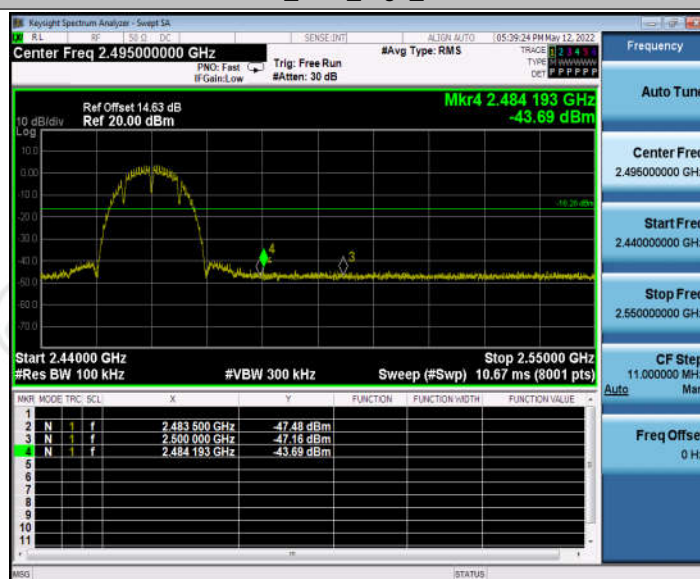
Test Mode	Antenna	Channel Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	3.96	-39.58	≤-16.04	PASS
		High	2462	3.72	-43.69	≤-16.28	PASS
11G	Ant1	Low	2412	-1.95	-40.18	≤-21.95	PASS
		High	2462	-2.09	-43.78	≤-22.09	PASS
11N20SI SO	Ant1	Low	2412	-2.00	-39.39	≤-22	PASS
		High	2462	-2.06	-44.06	≤-22.06	PASS
11N40SI SO	Ant1	Low	2422	-4.55	-39.86	≤-24.55	PASS
		High	2452	-4.79	-43.34	≤-24.79	PASS

Test Graphs

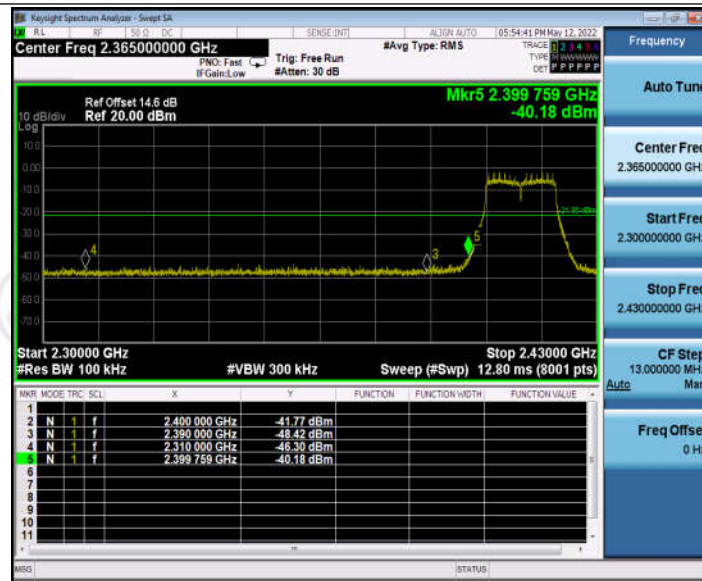
11B_Ant1_Low_2412



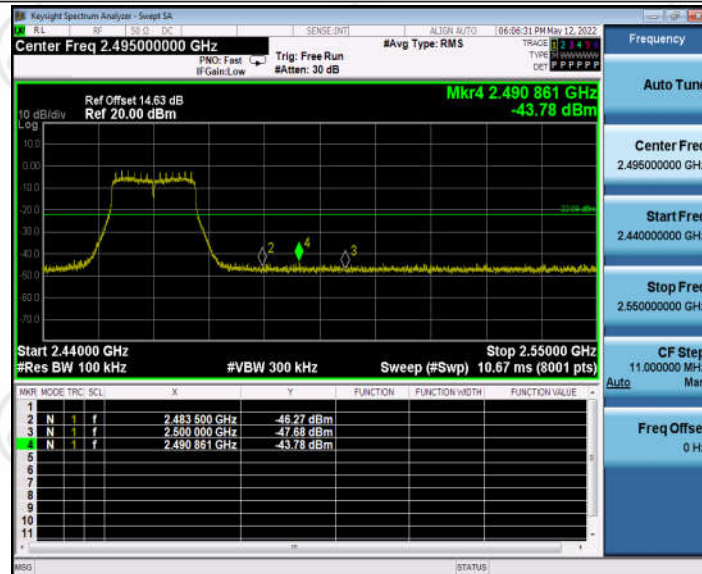
11B_Ant1_High_2462



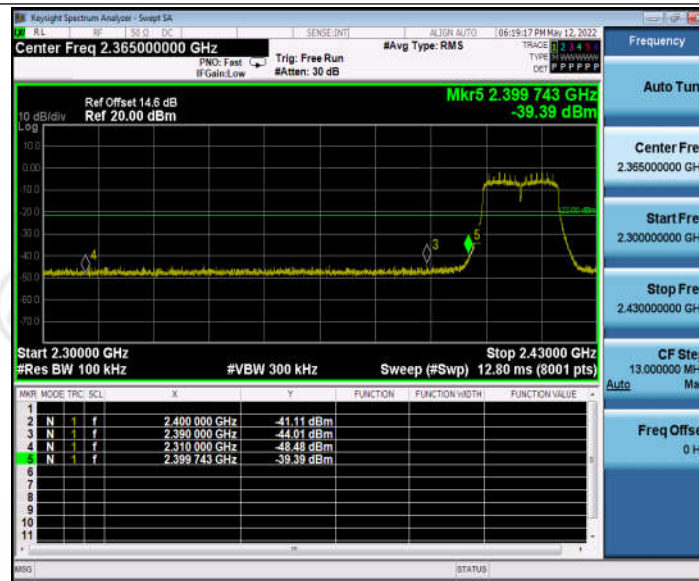
11G_Ant1_Low_2412



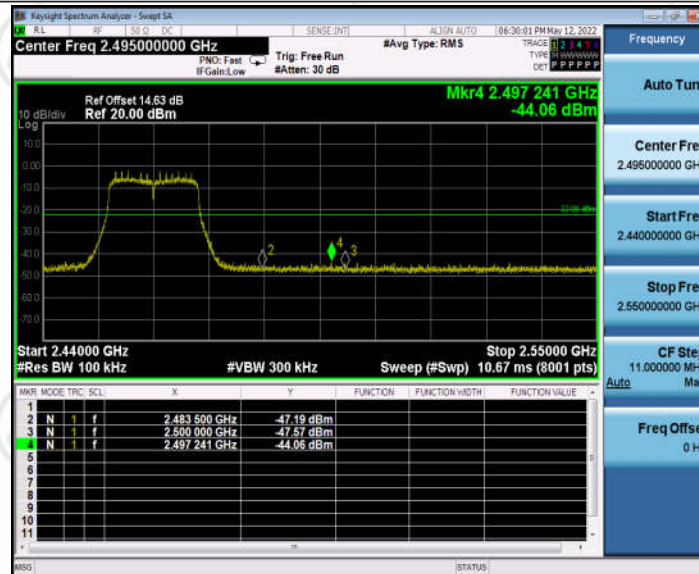
11G_Ant1_High_2462



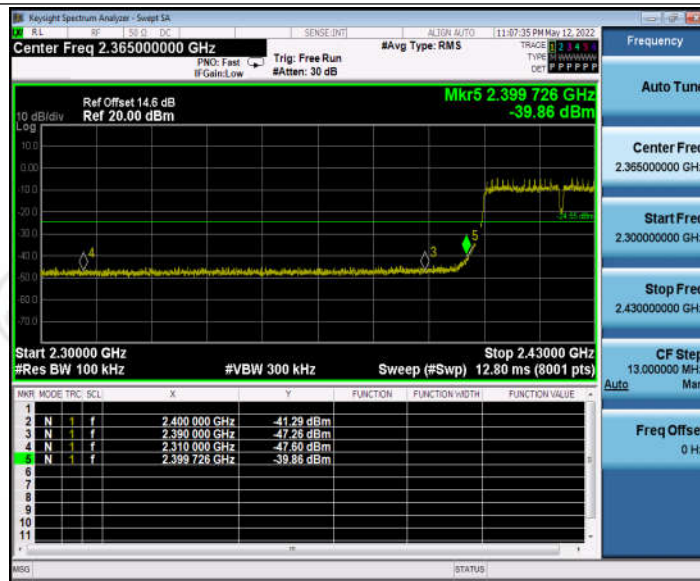
11N20SISO_Ant1_Low_2412



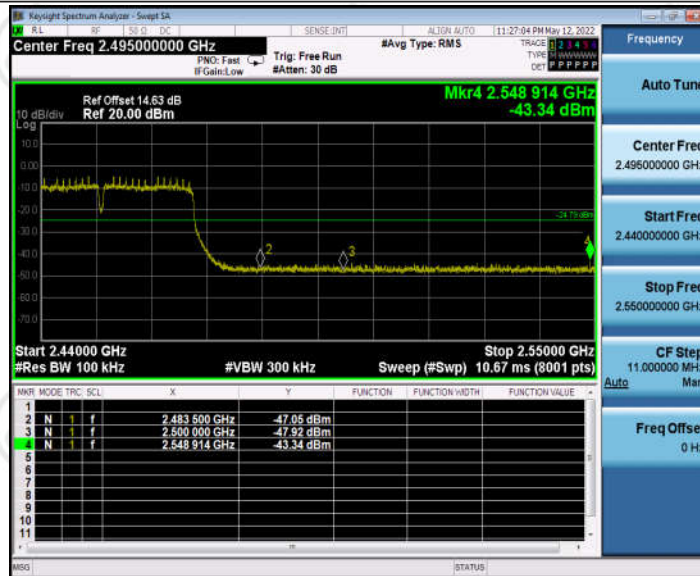
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

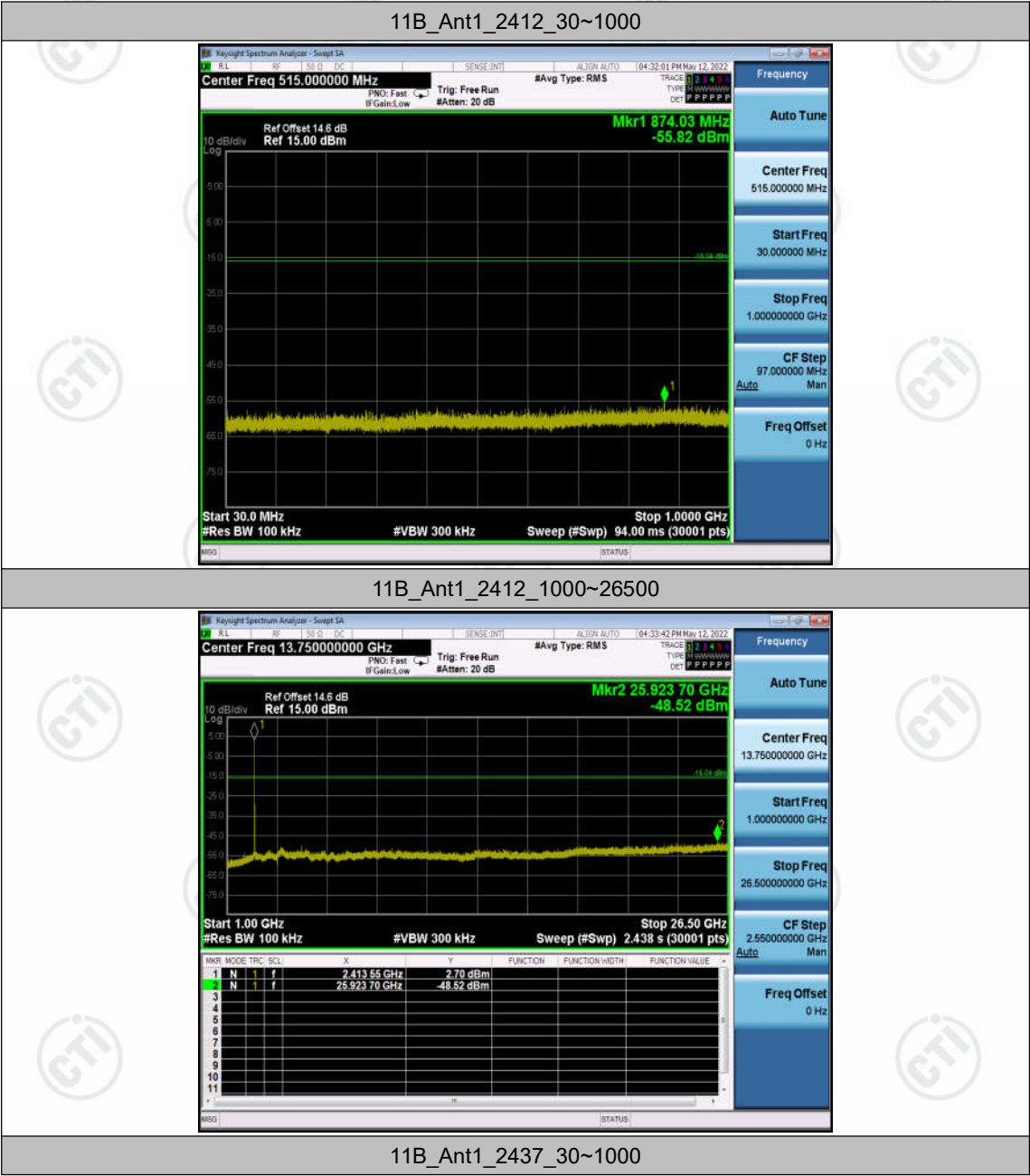


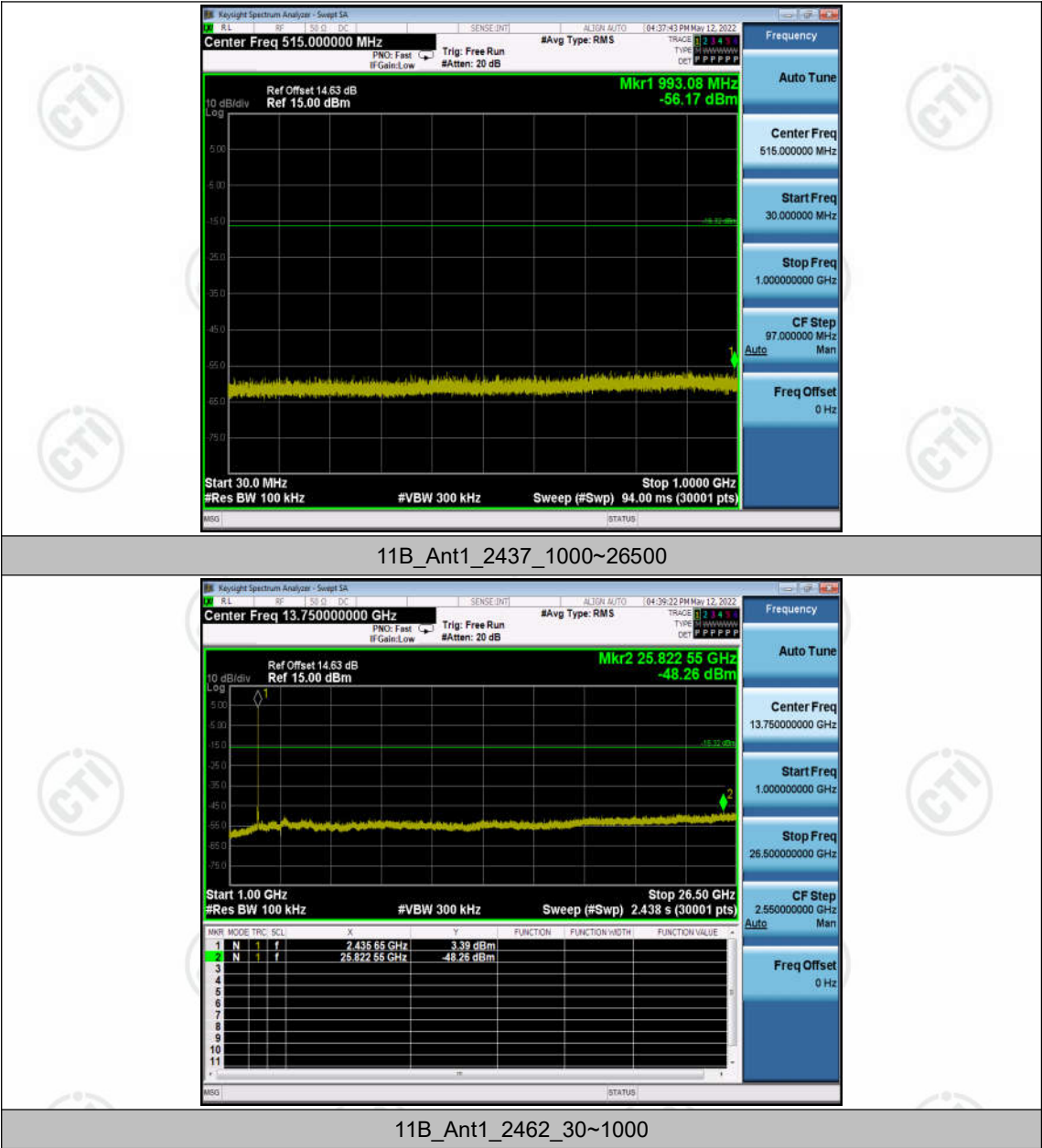
Appendix F: Conducted Spurious Emission

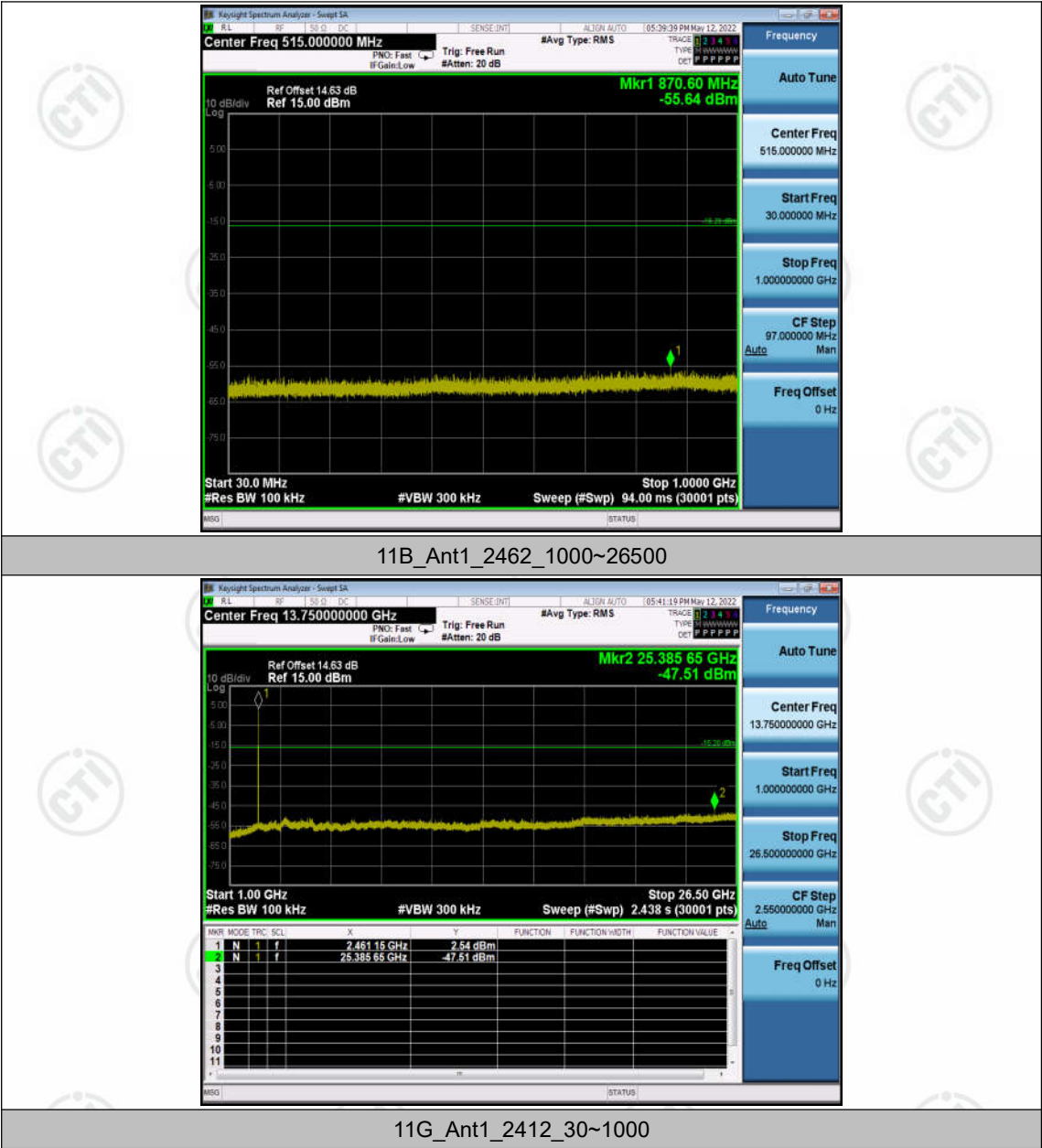
Test Result

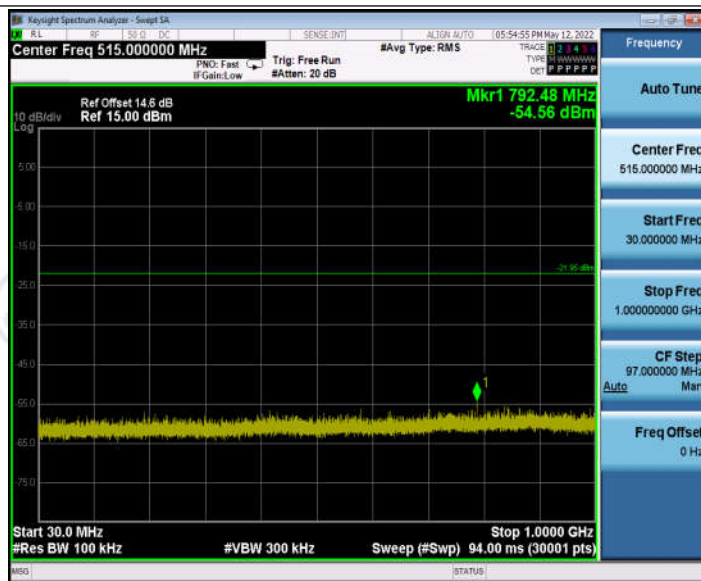
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	3.96	-55.82	≤-16.04	PASS
			1000~2650 0	3.96	-48.52	≤-16.04	PASS
		2437	30~1000	3.68	-56.17	≤-16.32	PASS
			1000~2650 0	3.68	-48.26	≤-16.32	PASS
		2462	30~1000	3.72	-55.64	≤-16.28	PASS
			1000~2650 0	3.72	-47.51	≤-16.28	PASS
11G	Ant1	2412	30~1000	-1.95	-54.56	≤-21.95	PASS
			1000~2650 0	-1.95	-48.2	≤-21.95	PASS
		2437	30~1000	-1.97	-55.89	≤-21.97	PASS
			1000~2650 0	-1.97	-47.86	≤-21.97	PASS
		2462	30~1000	-2.09	-55.99	≤-22.09	PASS
			1000~2650 0	-2.09	-46.51	≤-22.09	PASS
11N20SI SO	Ant1	2412	30~1000	-2.00	-55.85	≤-22	PASS
			1000~2650 0	-2.00	-48.42	≤-22	PASS
		2437	30~1000	-2.28	-55.64	≤-22.28	PASS
			1000~2650 0	-2.28	-46.9	≤-22.28	PASS
		2462	30~1000	-2.06	-55.25	≤-22.06	PASS
			1000~2650 0	-2.06	-47.69	≤-22.06	PASS
11N40SI SO	Ant1	2422	30~1000	-4.55	-55.37	≤-24.55	PASS
			1000~2650 0	-4.55	-47.6	≤-24.55	PASS
		2437	30~1000	-4.78	-54.52	≤-24.78	PASS
			1000~2650 0	-4.78	-48.34	≤-24.78	PASS
		2452	30~1000	-4.79	-55.49	≤-24.79	PASS
			1000~2650 0	-4.79	-47.91	≤-24.79	PASS

Test Graphs

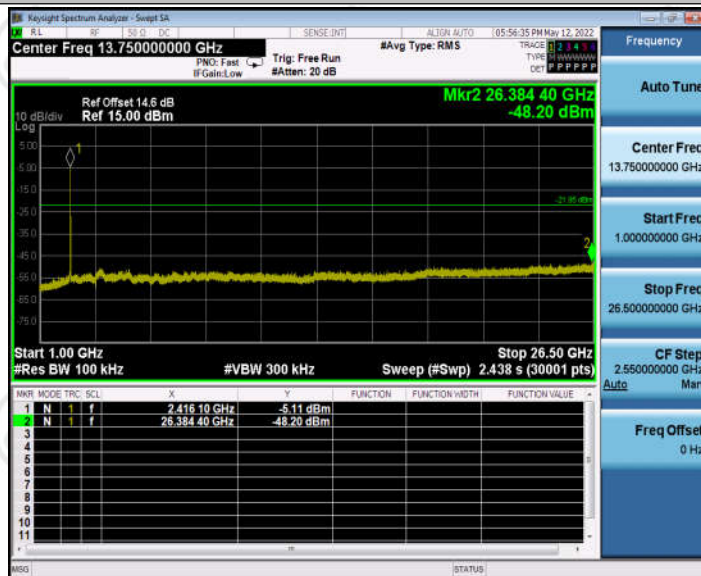




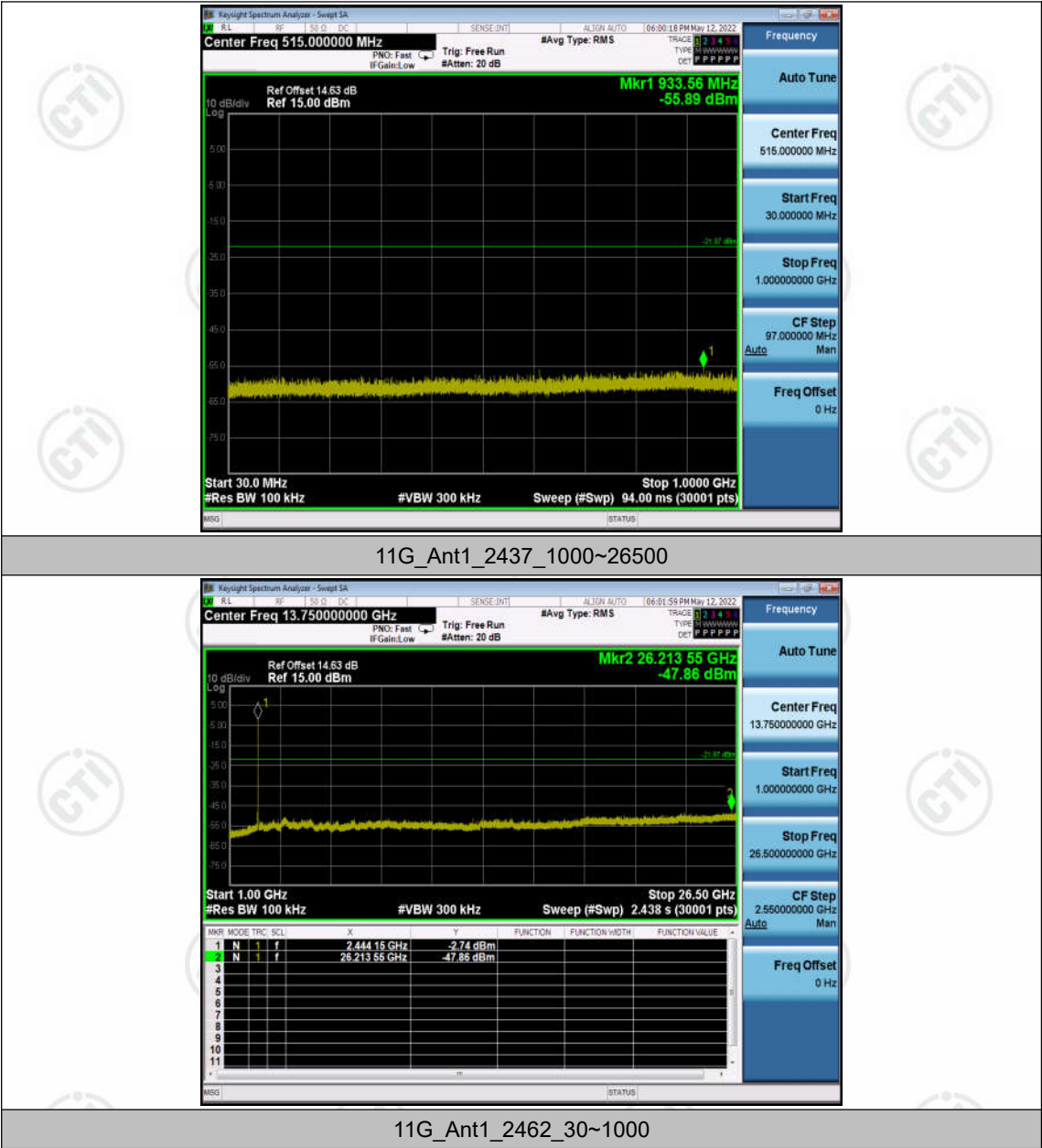


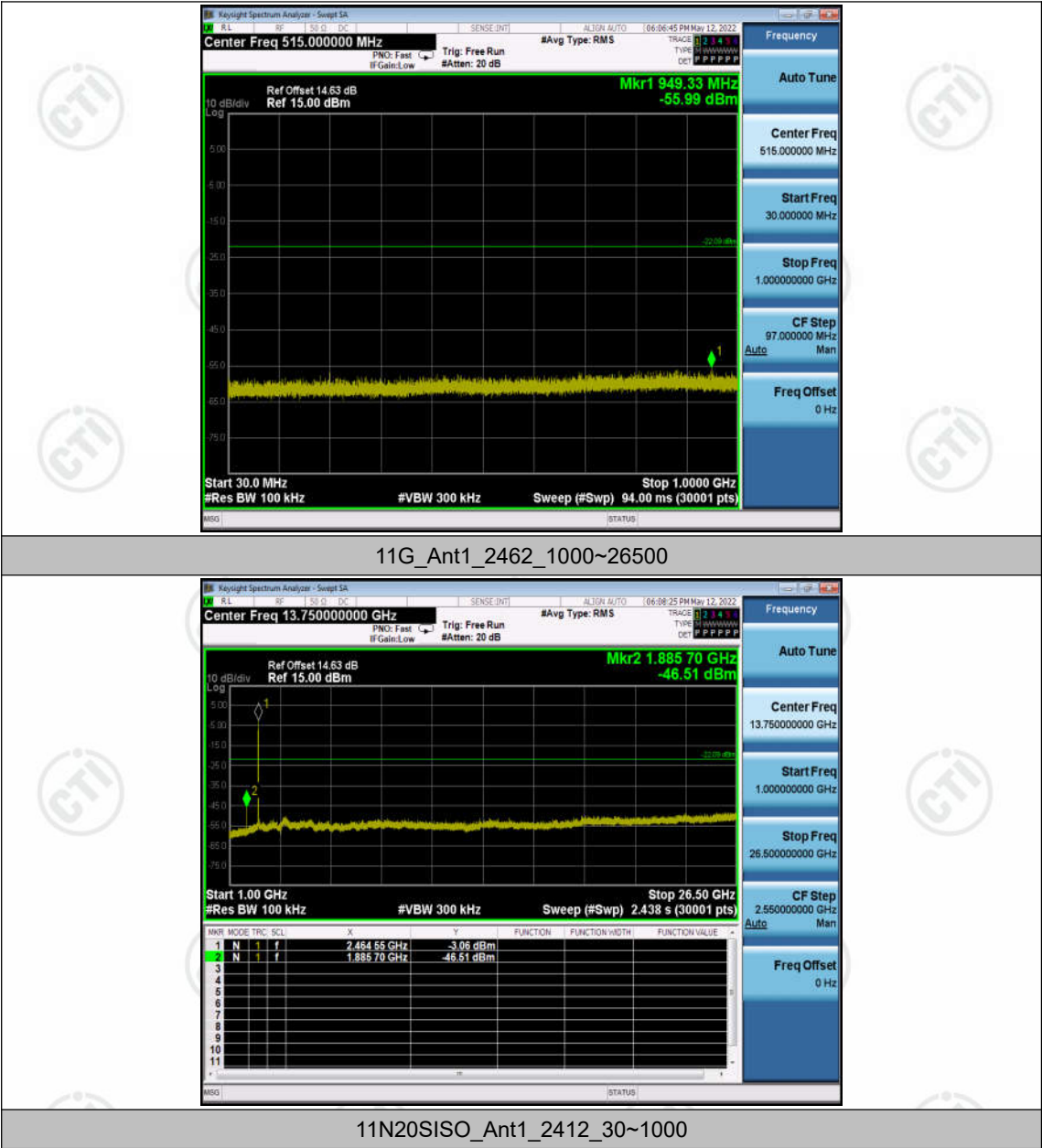


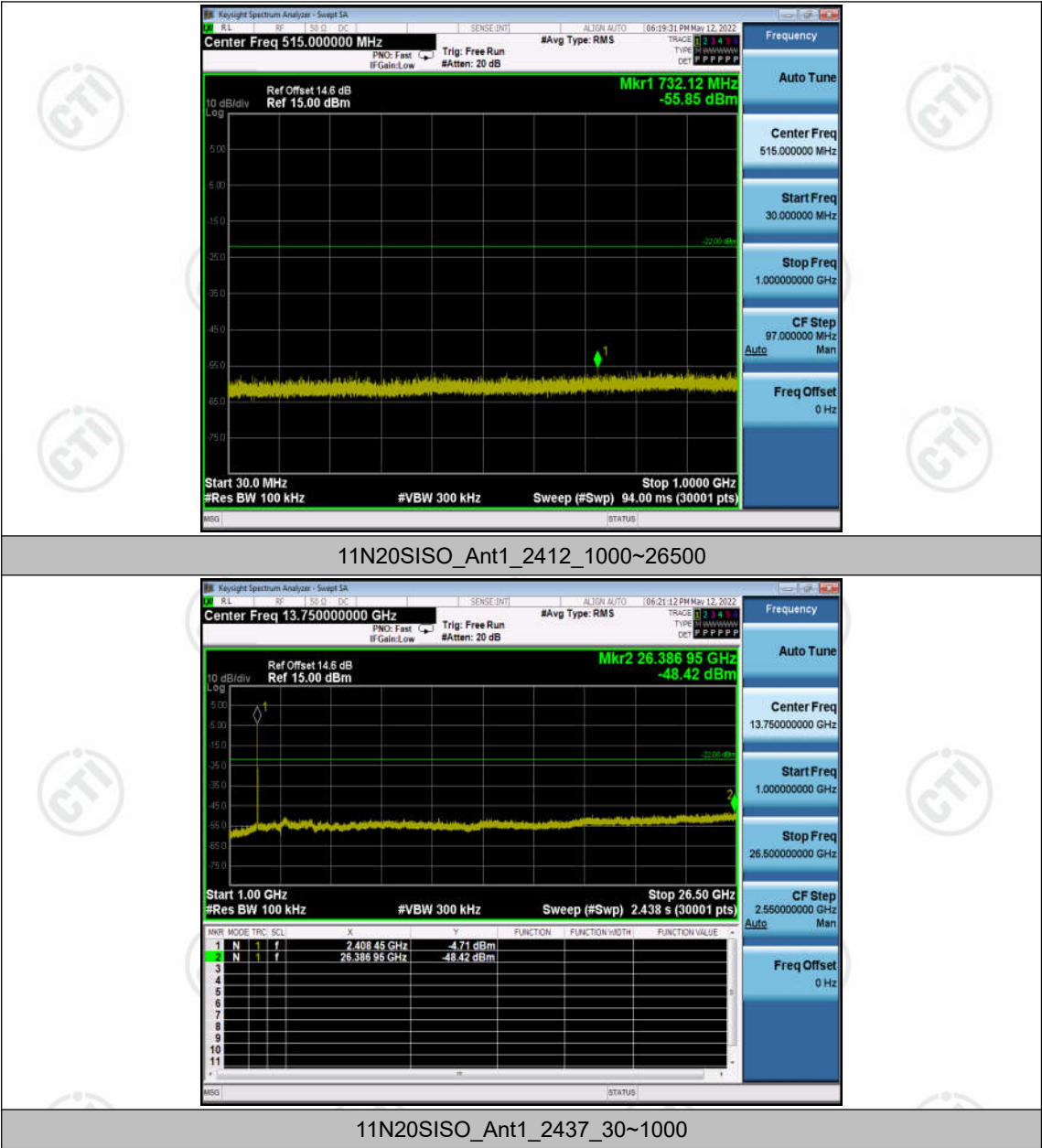
11G_Ant1_2412_1000~26500

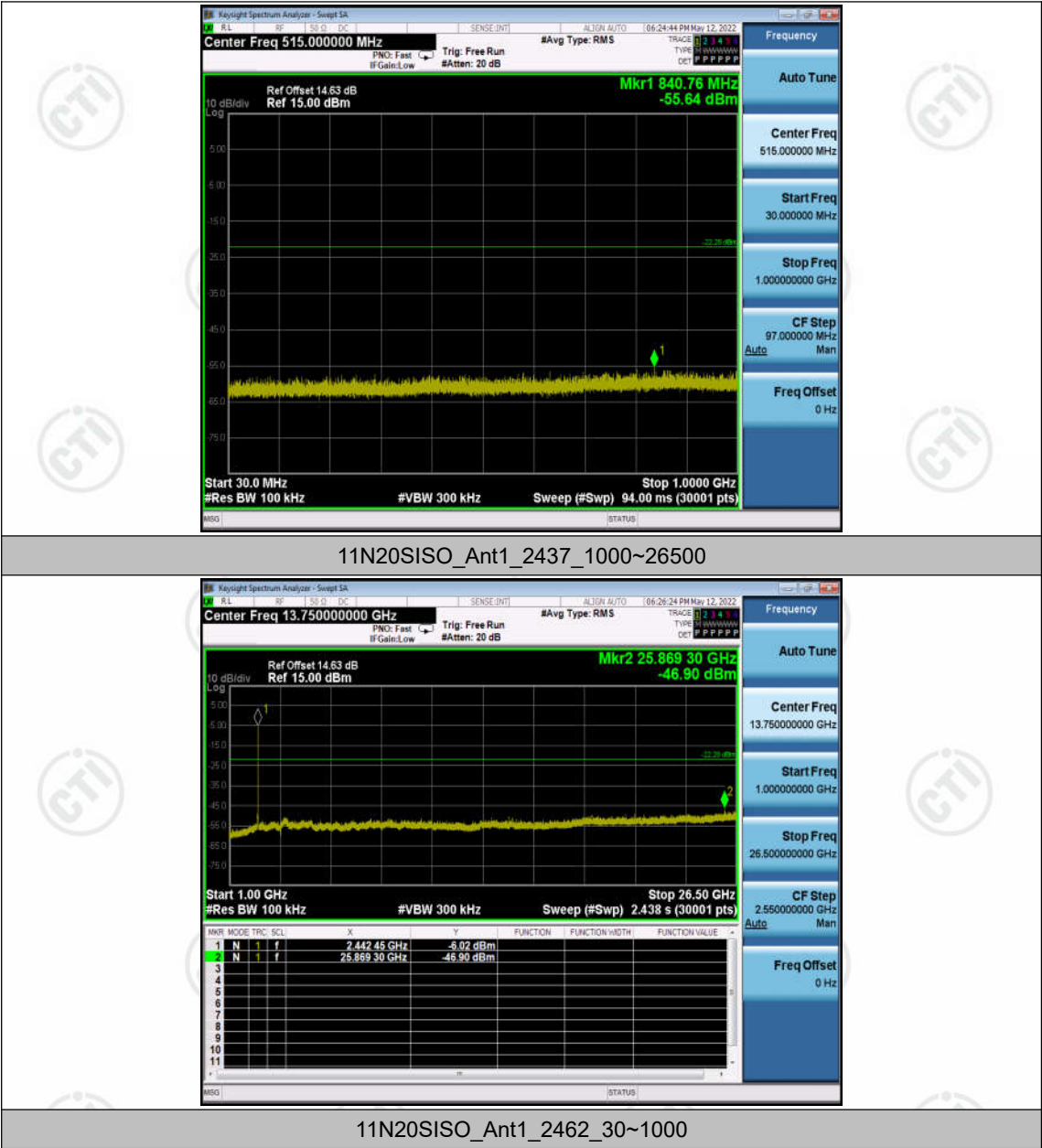


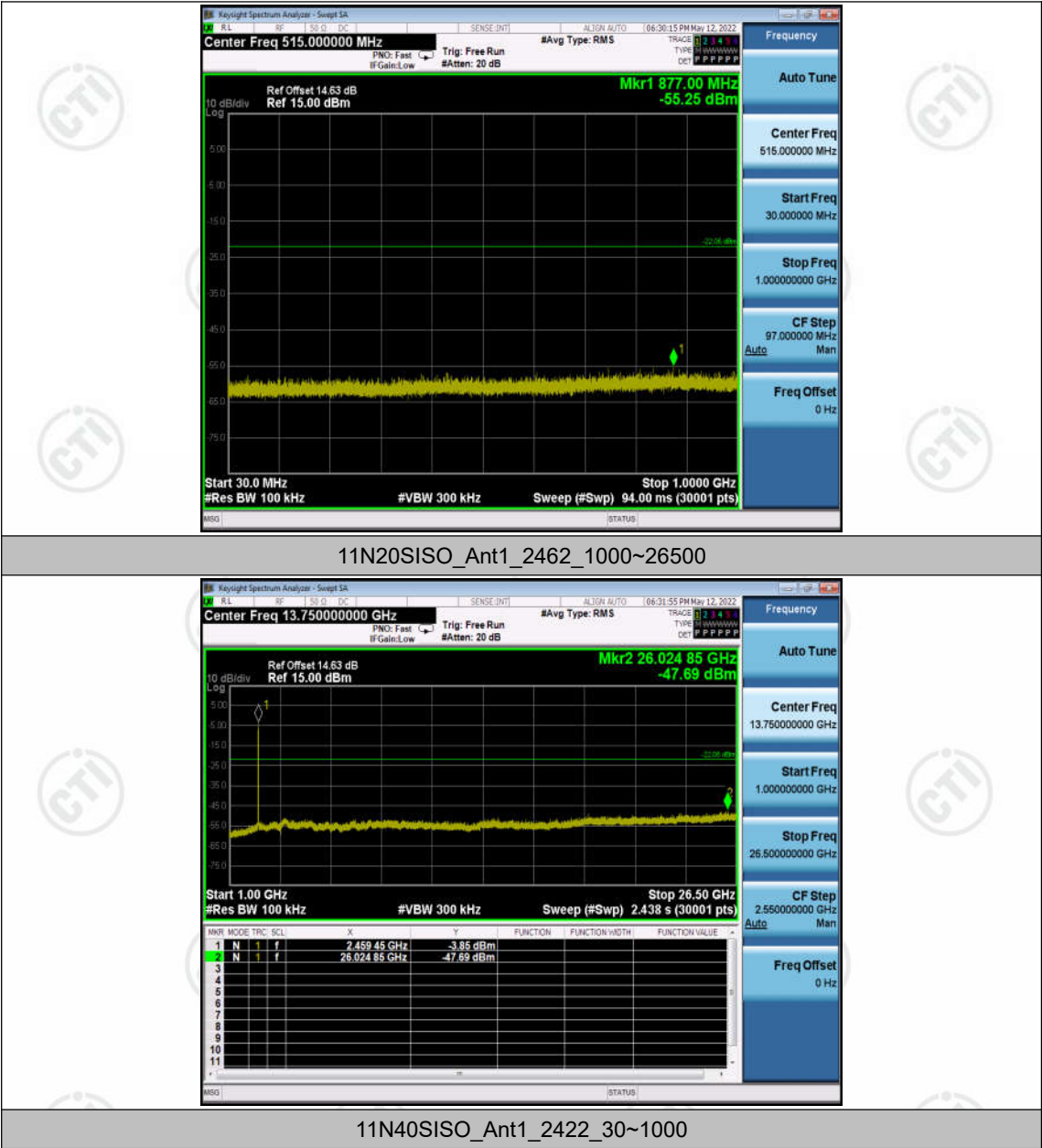
11G_Ant1_2437_30~1000

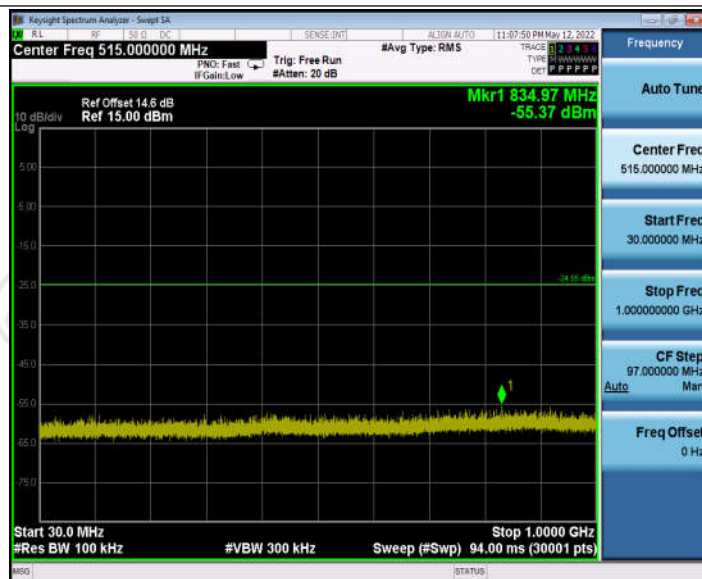




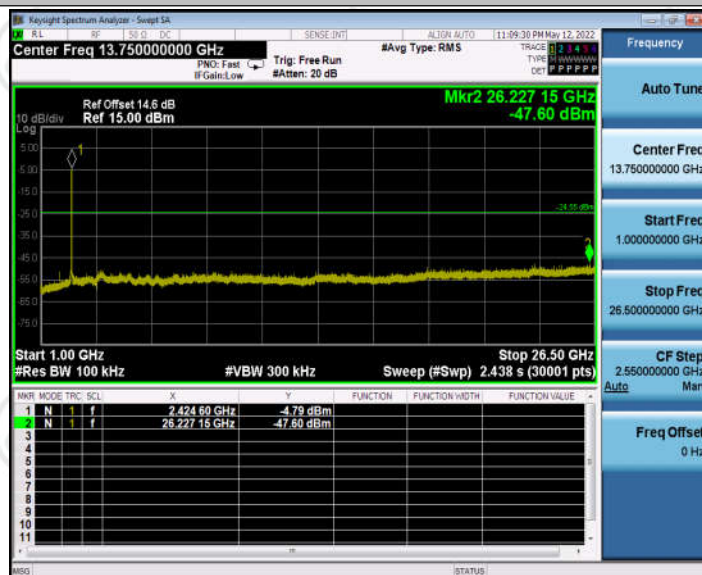




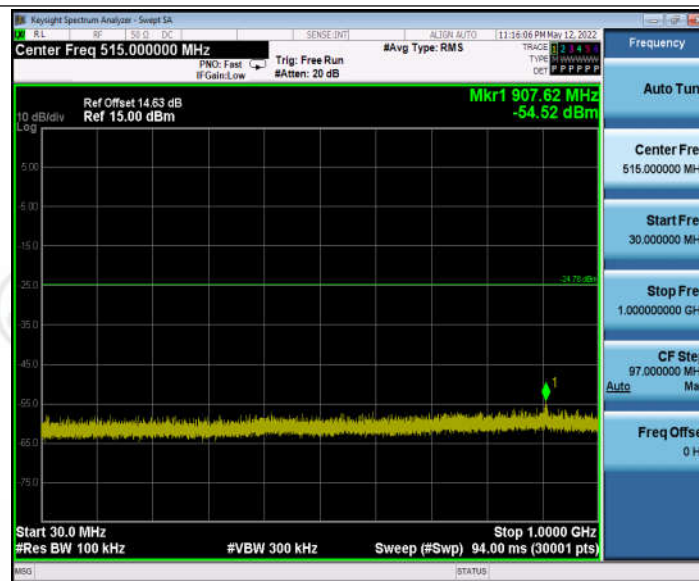




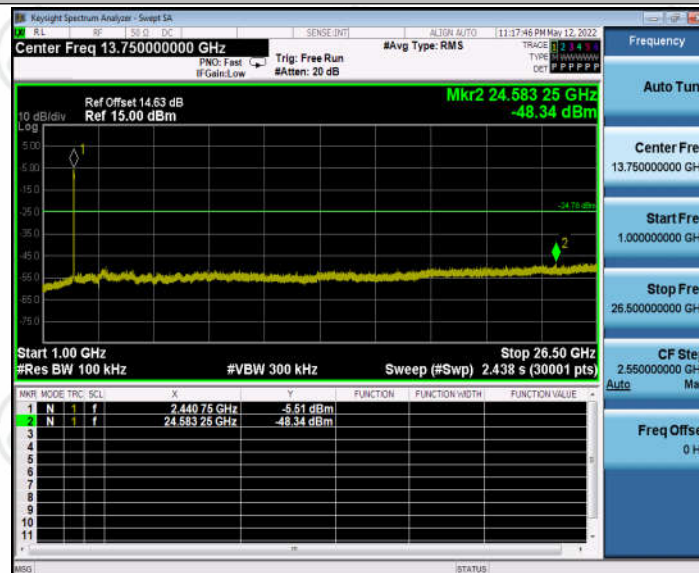
11N40SISO_Ant1_2422_1000~26500



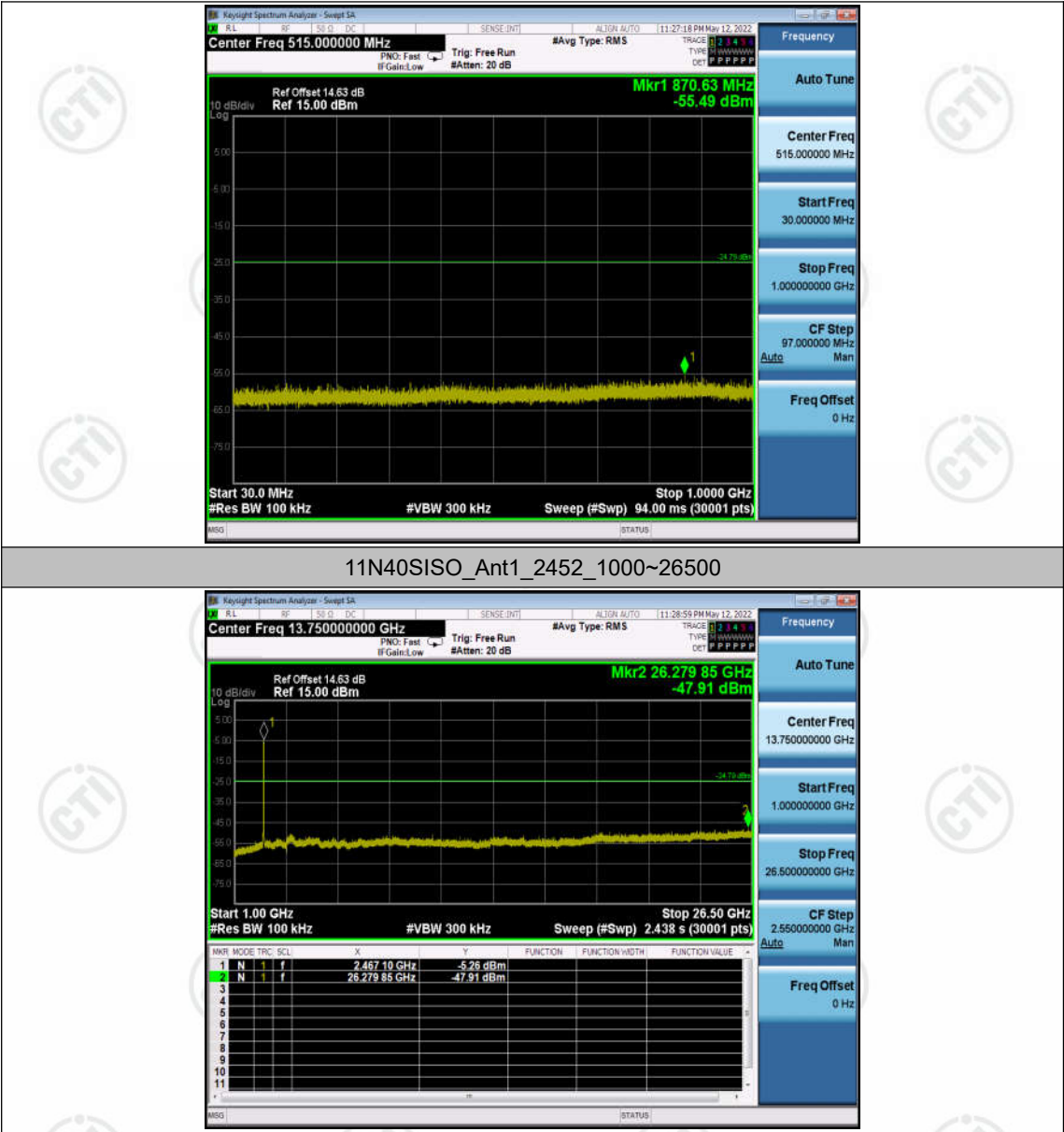
11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_30~1000

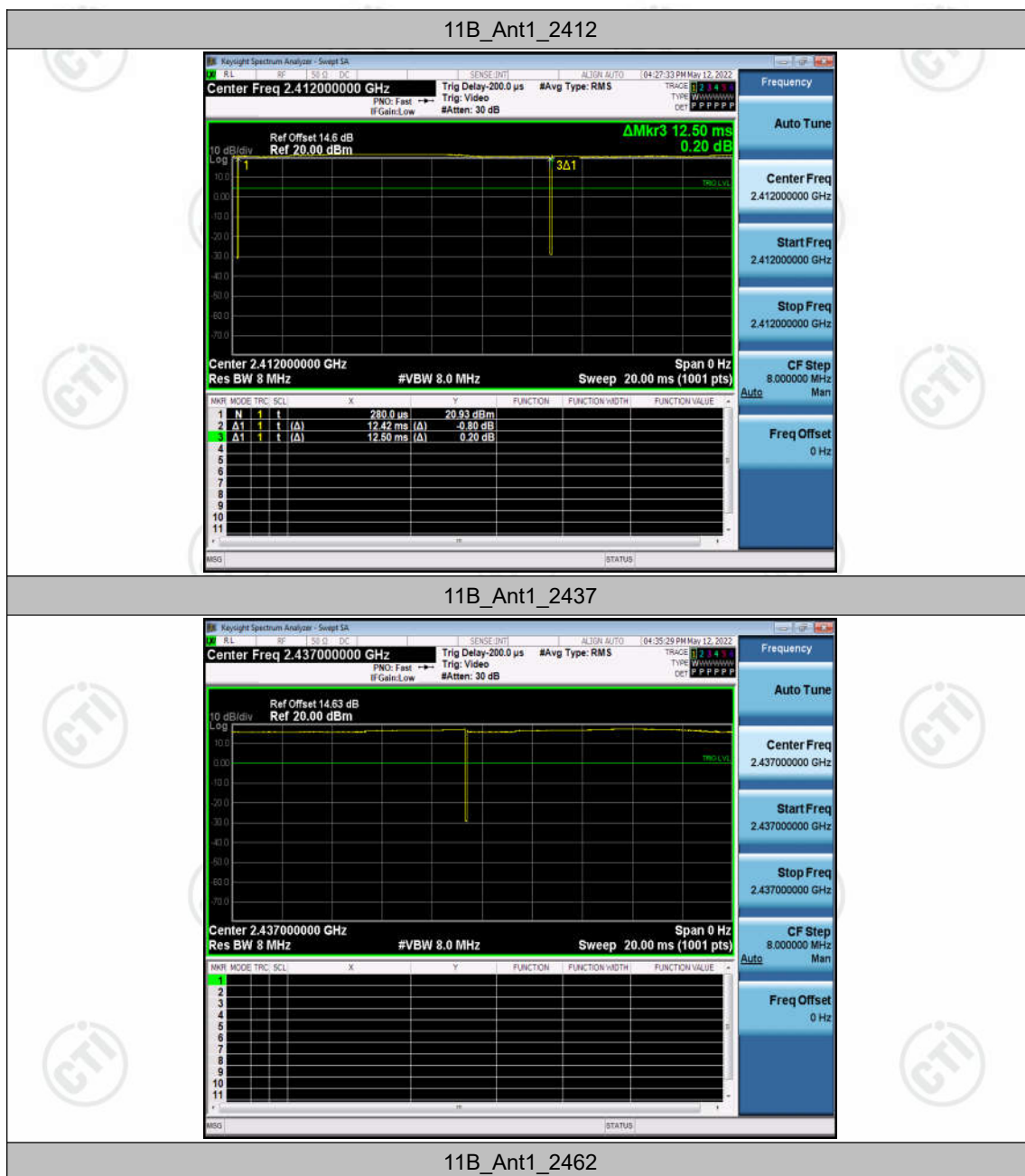


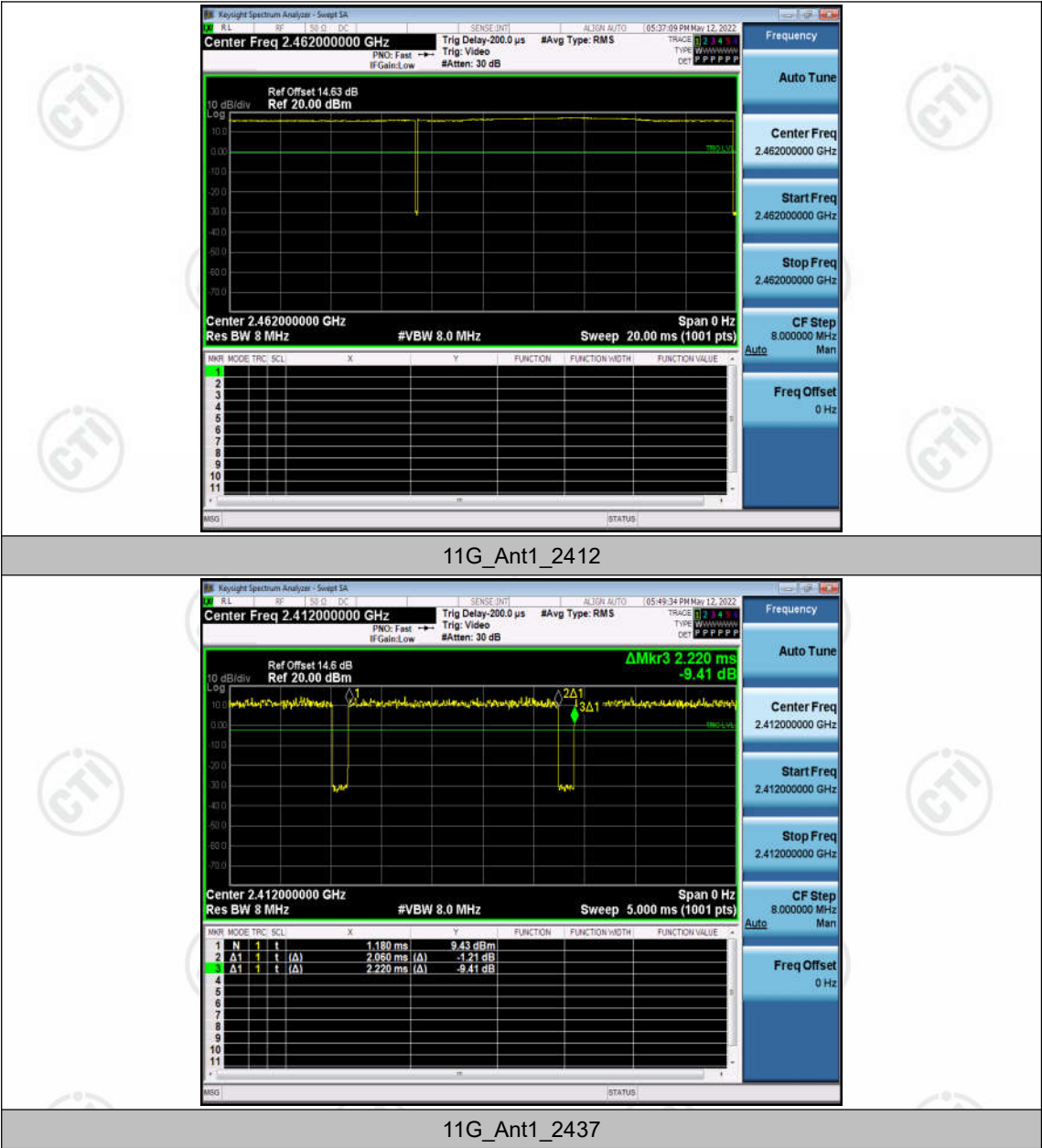
Appendix G: Duty Cycle

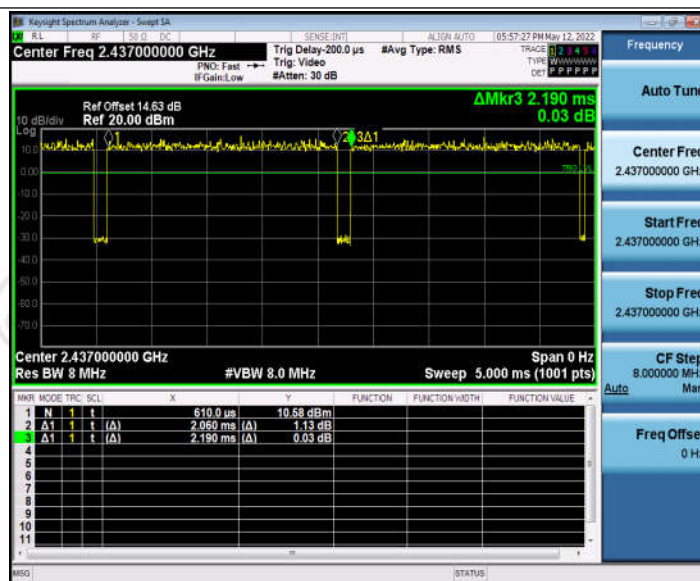
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	12.42	12.50	99.36
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11G	Ant1	2412	2.06	2.22	92.79
		2437	2.06	2.19	94.06
		2462	2.07	2.17	95.39
11N20SISO	Ant1	2412	1.92	2.09	91.87
		2437	1.92	2.03	94.58
		2462	1.92	2.09	91.87
11N40SISO	Ant1	2422	0.94	1.10	85.45
		2437	0.94	1.08	87.04
		2452	0.94	1.10	85.45

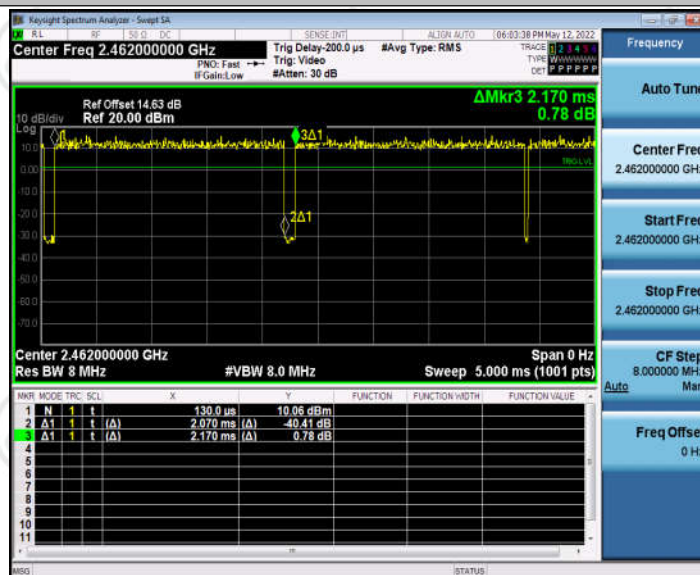
Test Graphs



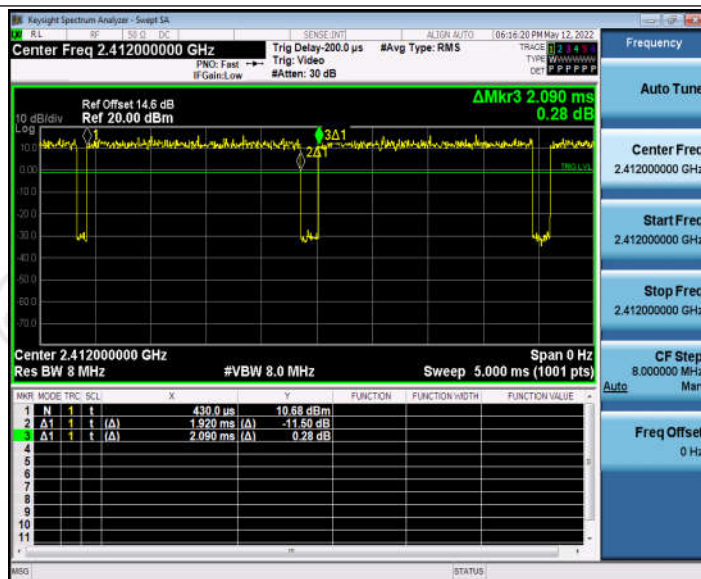




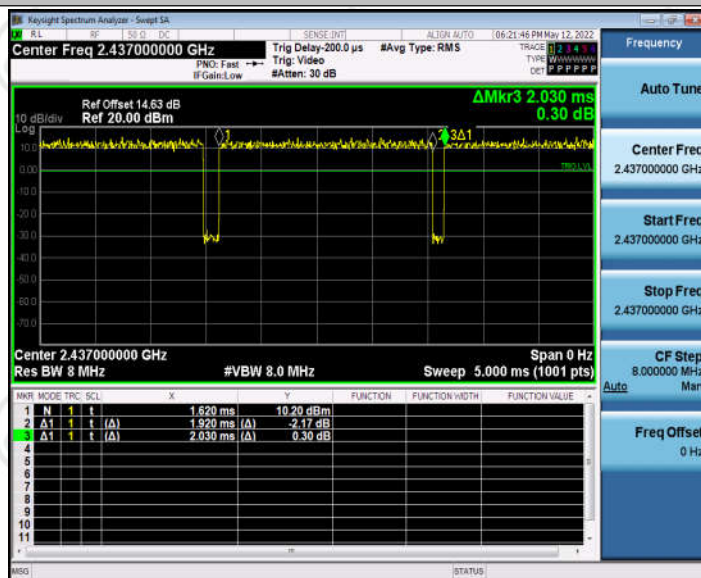
11G Ant1 2462



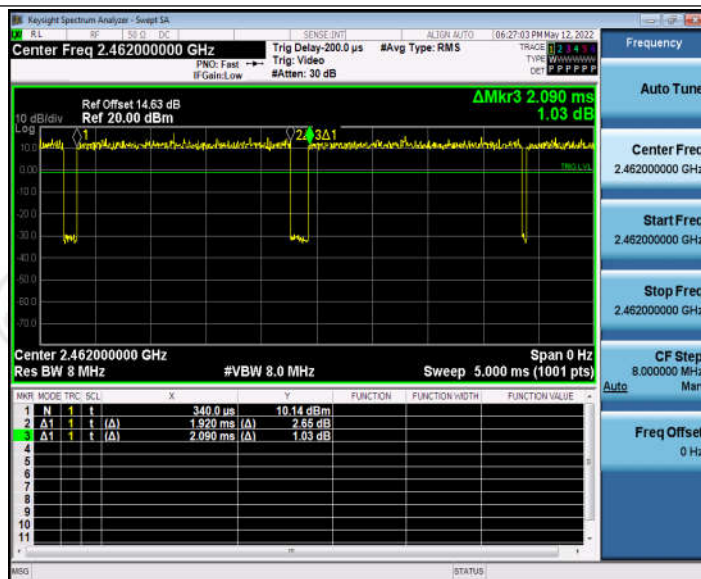
11N20SISO Ant1 2412



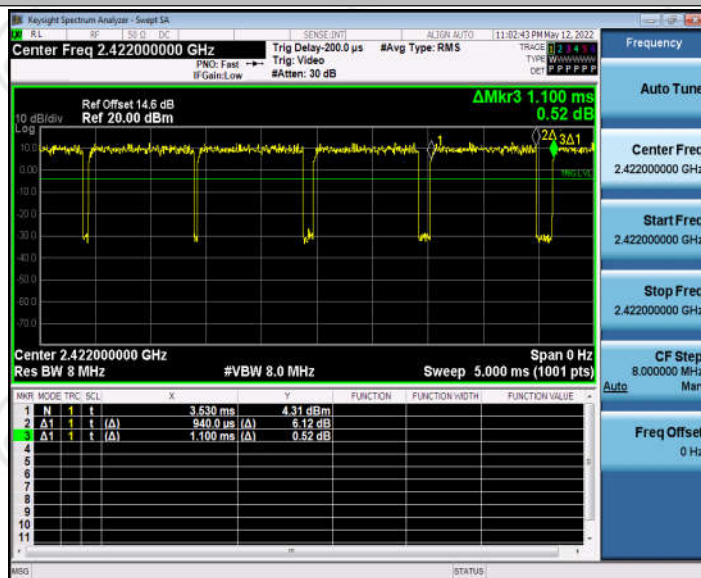
11N20SISO_Ant1_2437



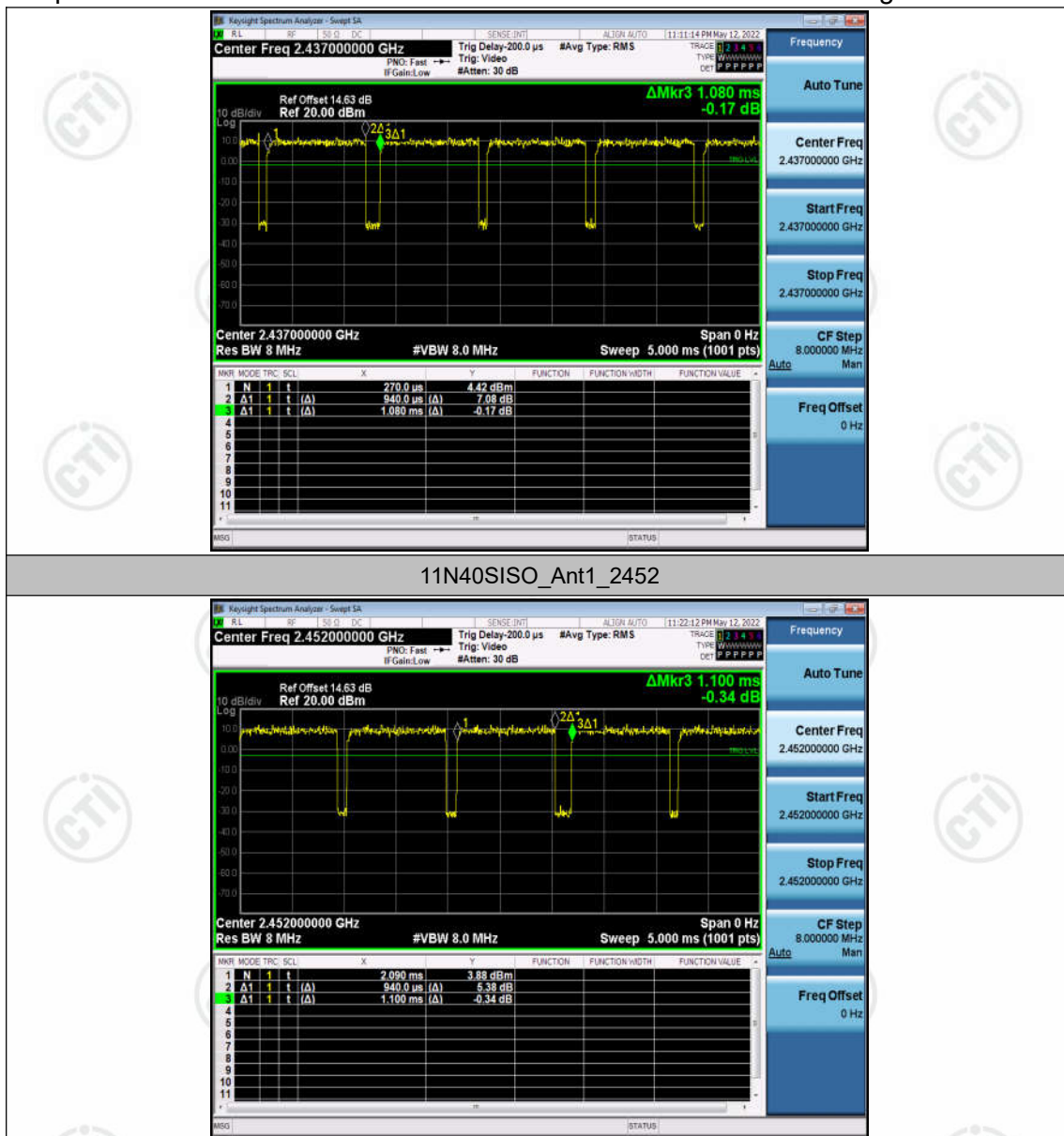
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



*** End of Report ***