

Appendix: 2.4G WIFI

Contents

Appendix A: DTS Bandwidth..... 3

 Test Result.....3

 Test Graphs.....4

Appendix B: Occupied Channel Bandwidth..... 9

 Test Result.....9

 Test Graphs.....10

Appendix C: Maximum conducted output power..... 15

 Test Result.....15

Appendix D: Maximum power spectral density..... 16

 Test Result.....16

 Test Graphs.....17

Appendix E: Band edge measurements..... 22

 Test Result.....22

 Test Graphs.....23

Appendix F: Conducted Spurious Emission..... 26

 Test Result.....26

 Test Graphs.....27

Appendix G: Duty Cycle.....41

 Test Result.....41

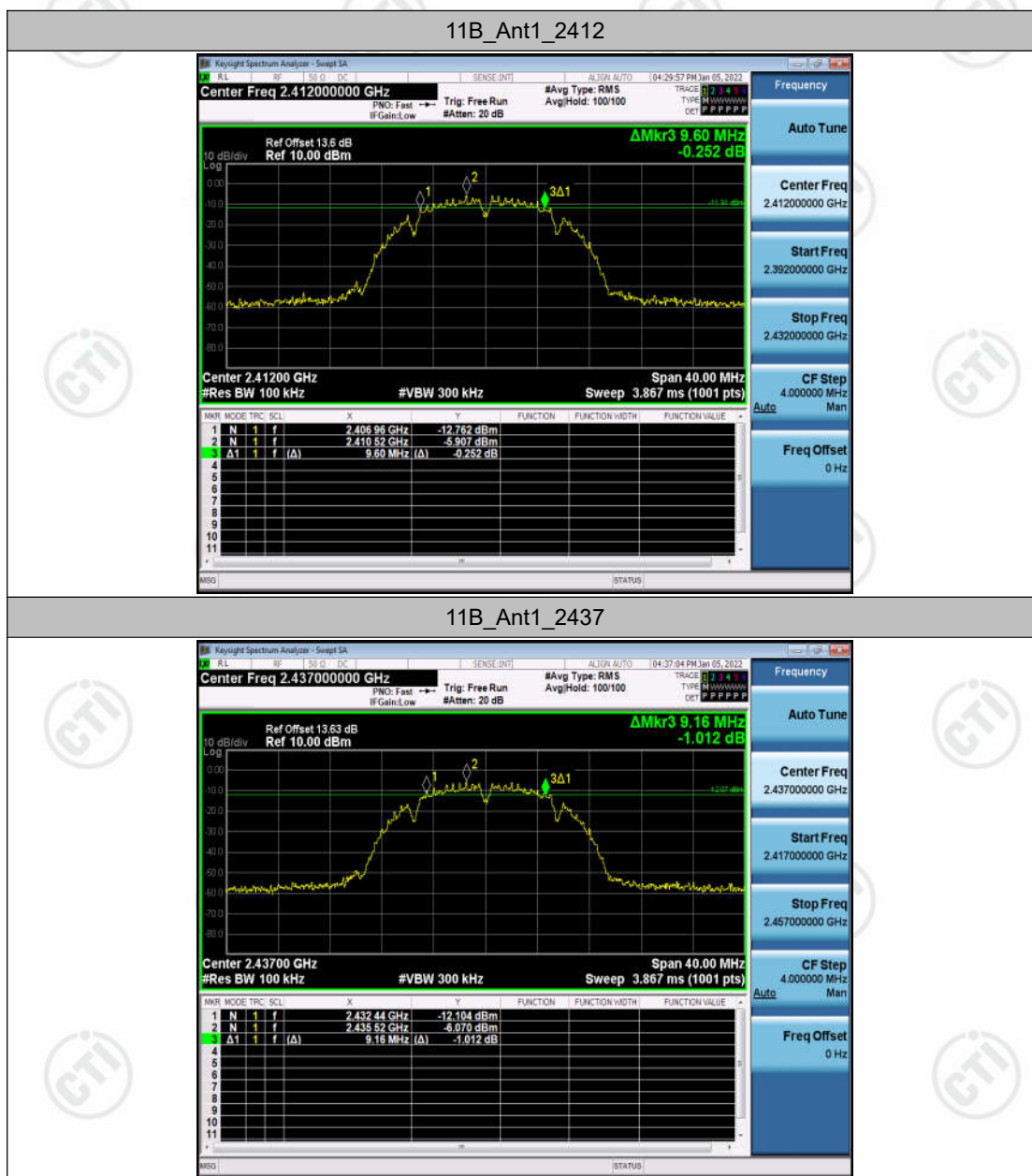
 Test Graphs.....42

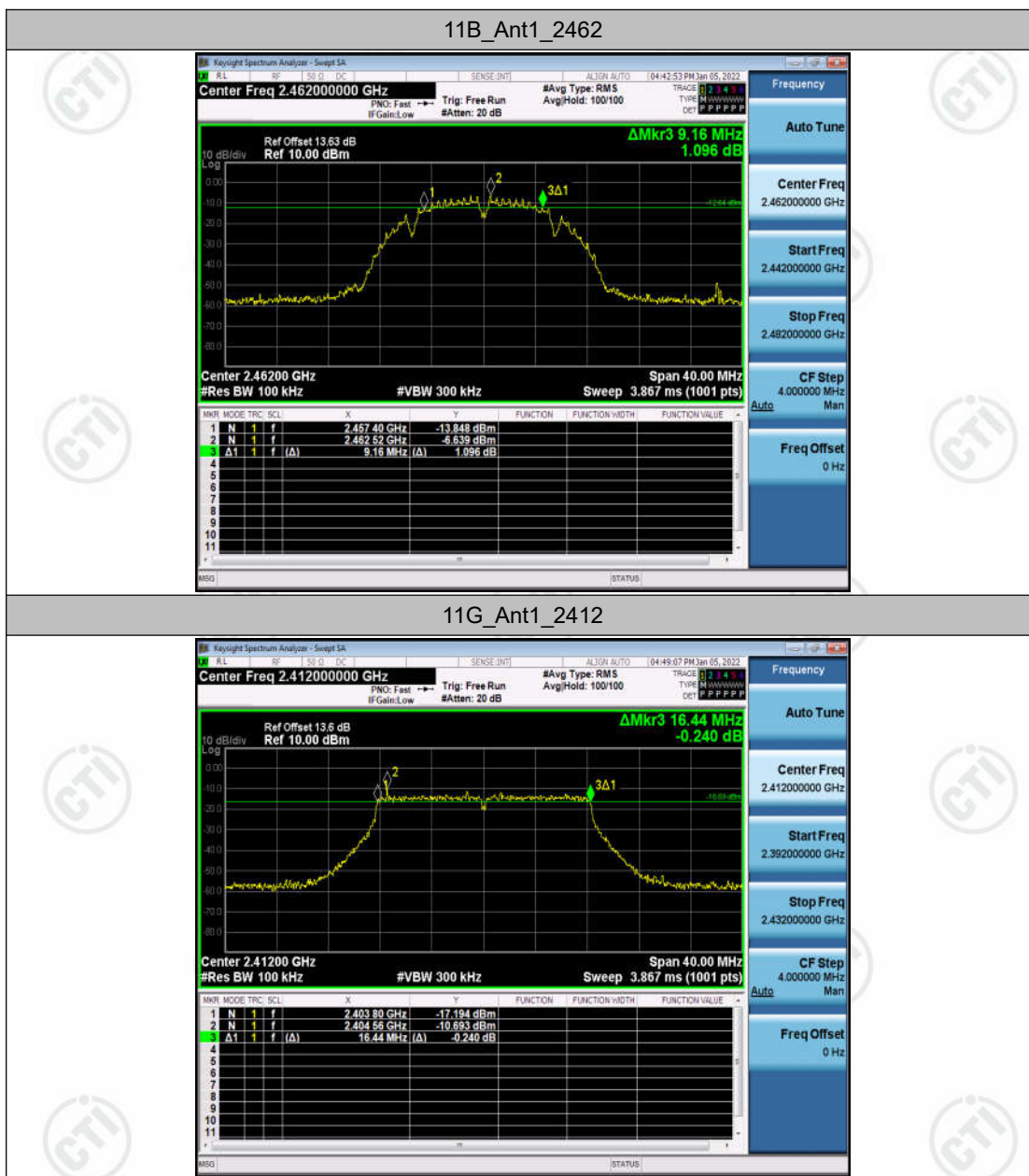
Appendix A: DTS Bandwidth

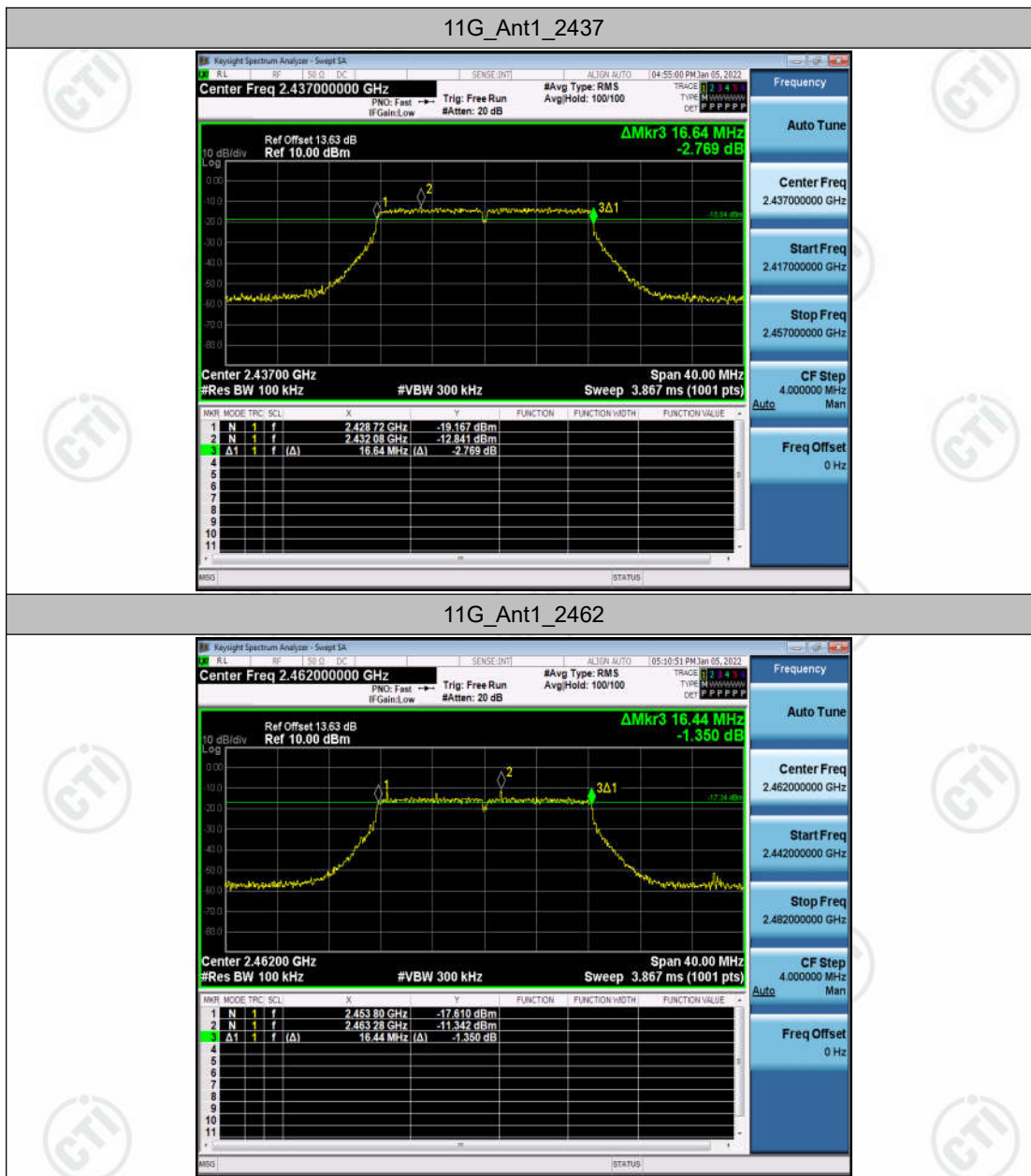
Test Result

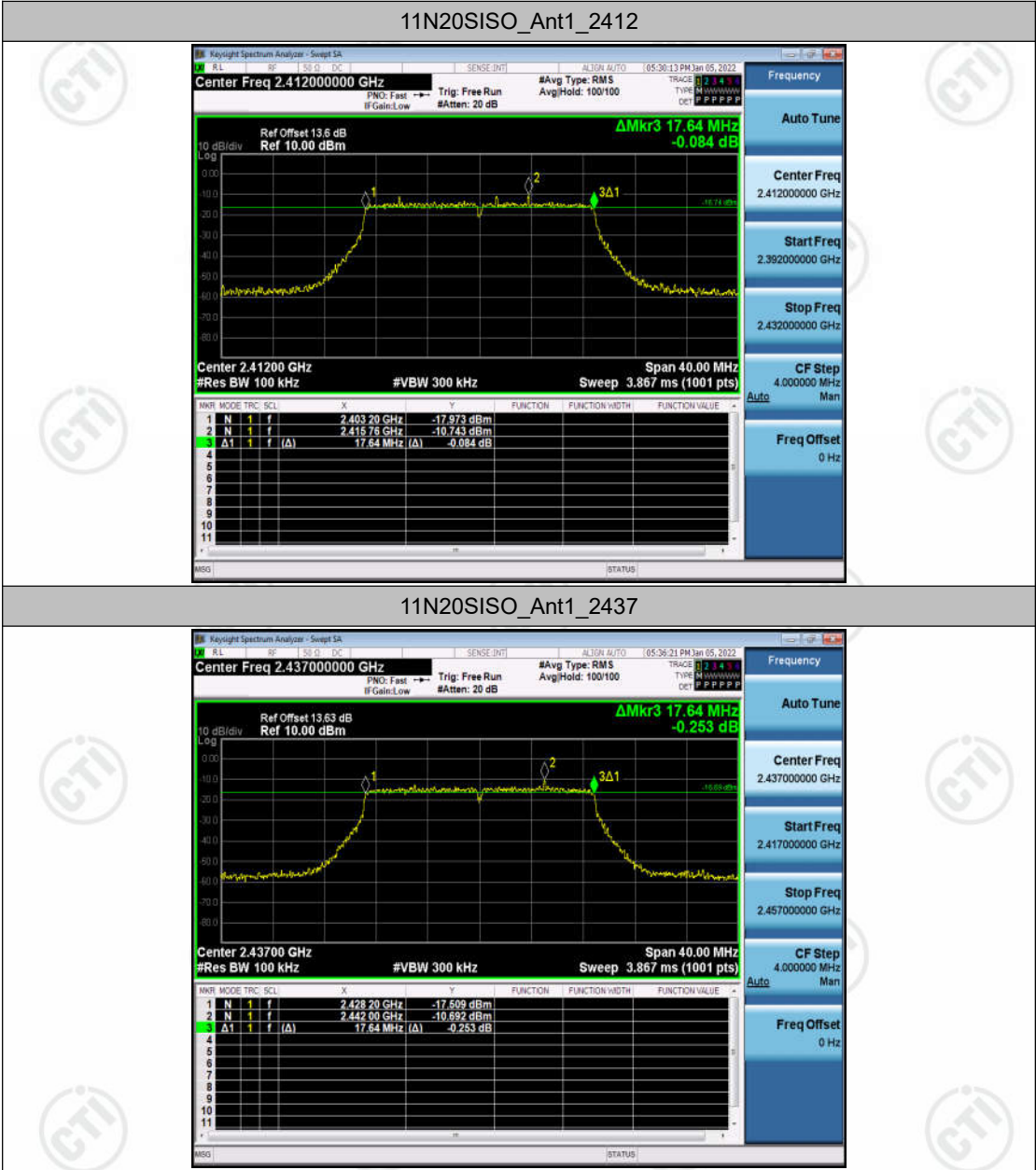
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.600	2406.960	2416.560	0.5	PASS
		2437	9.160	2432.440	2441.600	0.5	PASS
		2462	9.160	2457.400	2466.560	0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	0.5	PASS
		2437	16.640	2428.720	2445.360	0.5	PASS
		2462	16.440	2453.800	2470.240	0.5	PASS
11N20SI SO	Ant1	2412	17.640	2403.200	2420.840	0.5	PASS
		2437	17.640	2428.200	2445.840	0.5	PASS
		2462	17.400	2453.200	2470.600	0.5	PASS

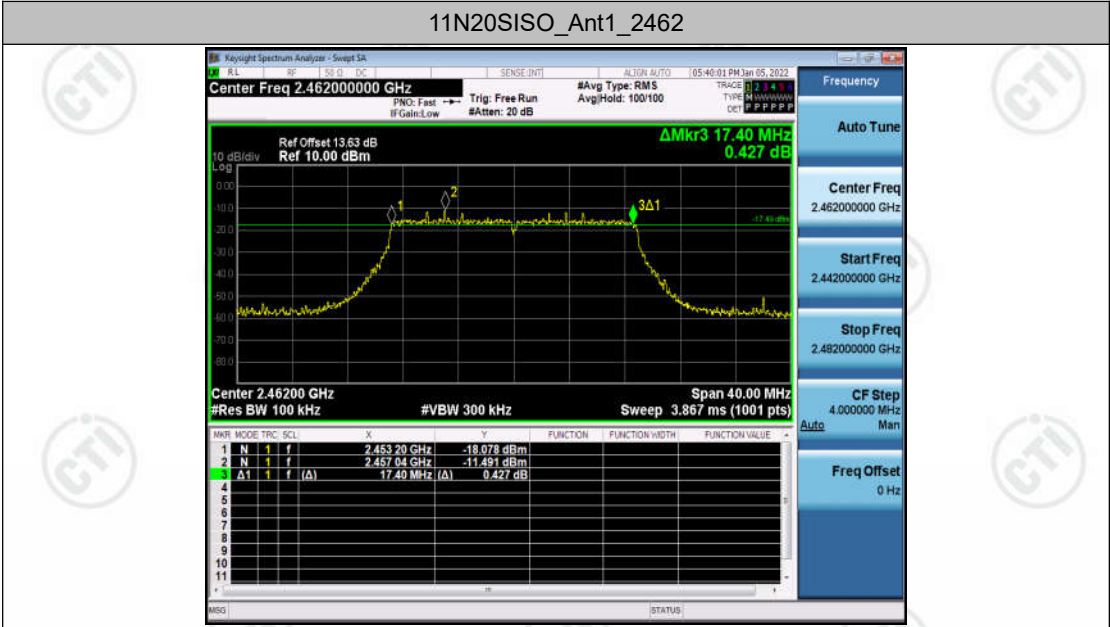
Test Graphs











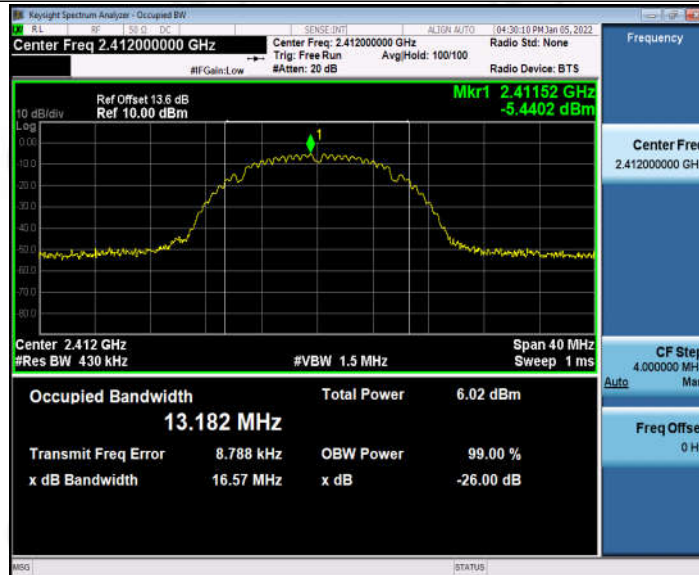
Appendix B: Occupied Channel Bandwidth

Test Result

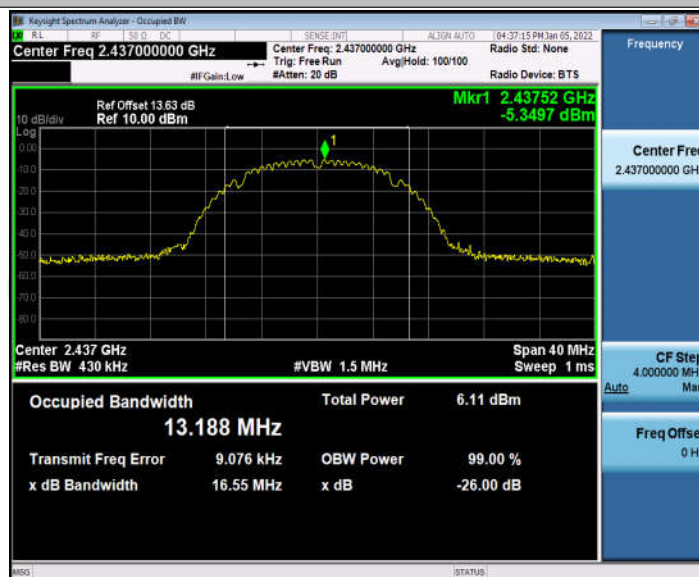
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.182	2405.418	2418.600	---	PASS
		2437	13.188	2430.415	2443.603	---	PASS
		2462	13.213	2455.368	2468.581	---	PASS
11G	Ant1	2412	17.004	2403.567	2420.571	---	PASS
		2437	17.063	2428.476	2445.539	---	PASS
		2462	17.032	2453.474	2470.506	---	PASS
11N20SI SO	Ant1	2412	17.954	2403.075	2421.029	---	PASS
		2437	17.983	2428.046	2446.029	---	PASS
		2462	18.025	2452.999	2471.024	---	PASS

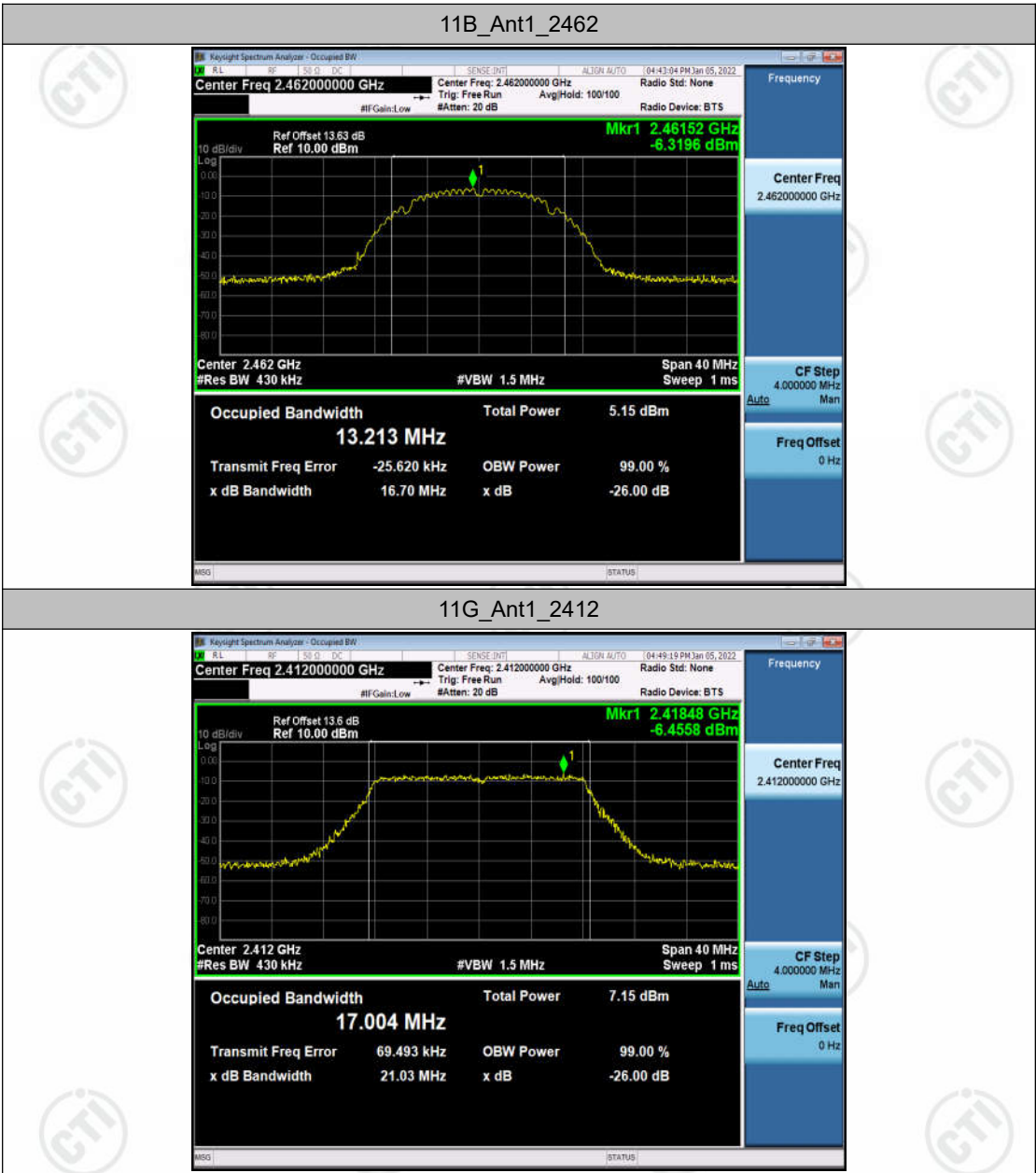
Test Graphs

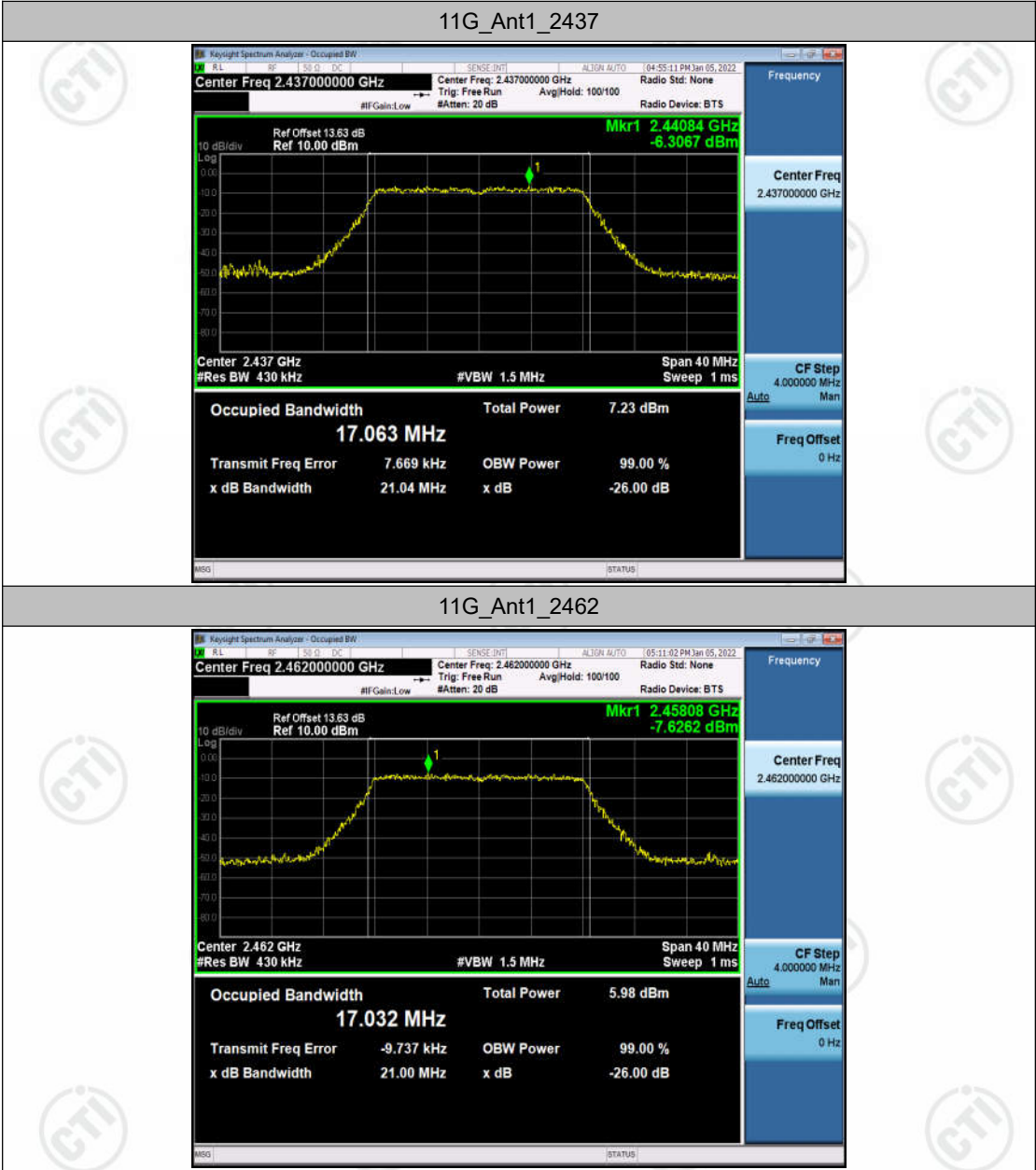
11B_Ant1_2412

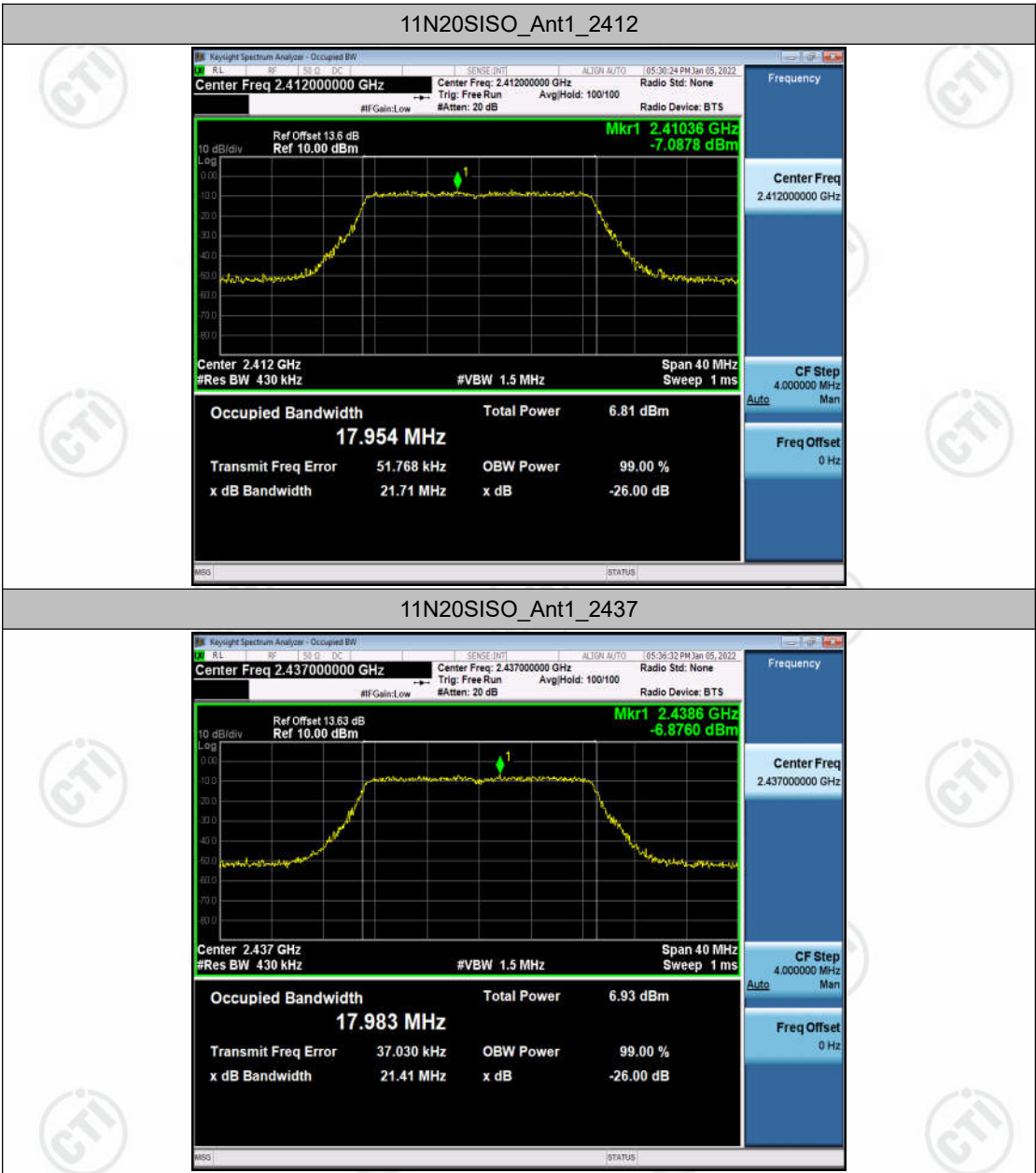


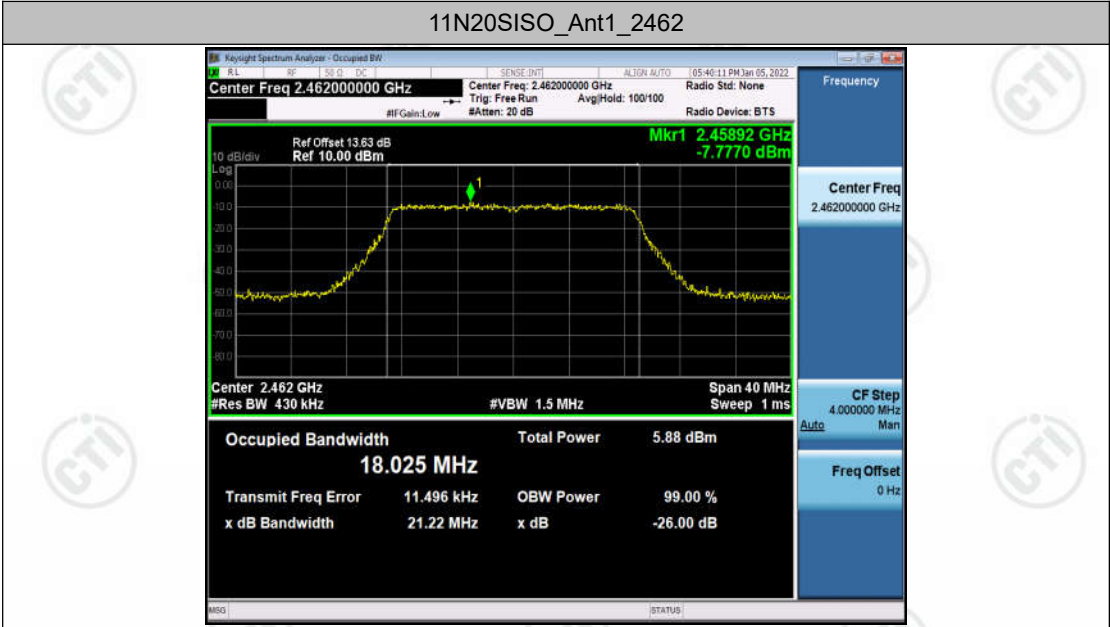
11B_Ant1_2437











Appendix C: Maximum conducted output power

Test Result

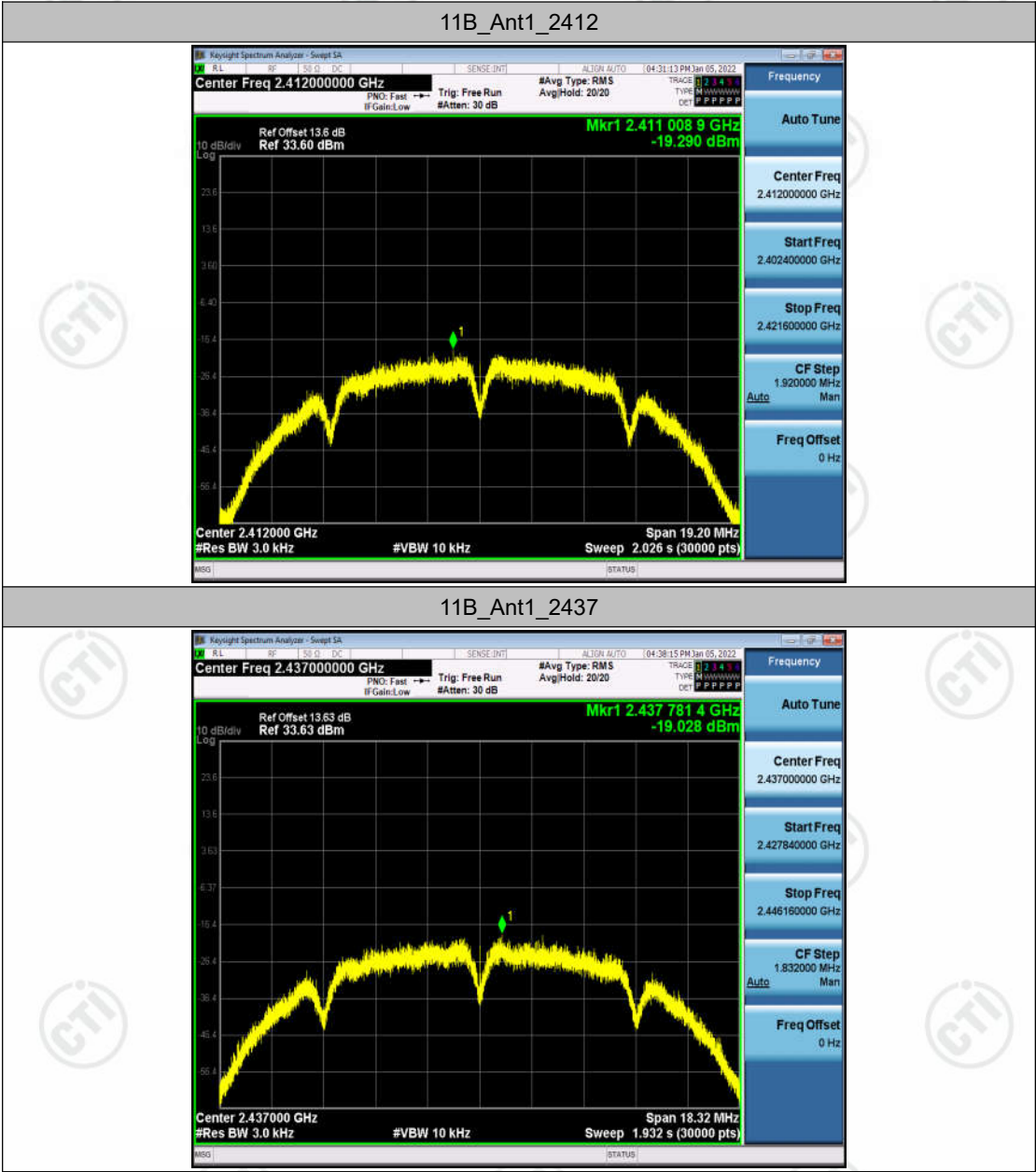
Test Mode	Antenna	Channel	Power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	10.46	<=30	PASS
		2437	10.50	<=30	PASS
		2462	10.85	<=30	PASS
11G	Ant1	2412	10.45	<=30	PASS
		2437	10.43	<=30	PASS
		2462	10.56	<=30	PASS
11N20SISO	Ant1	2412	9.44	<=30	PASS
		2437	9.55	<=30	PASS
		2462	9.93	<=30	PASS

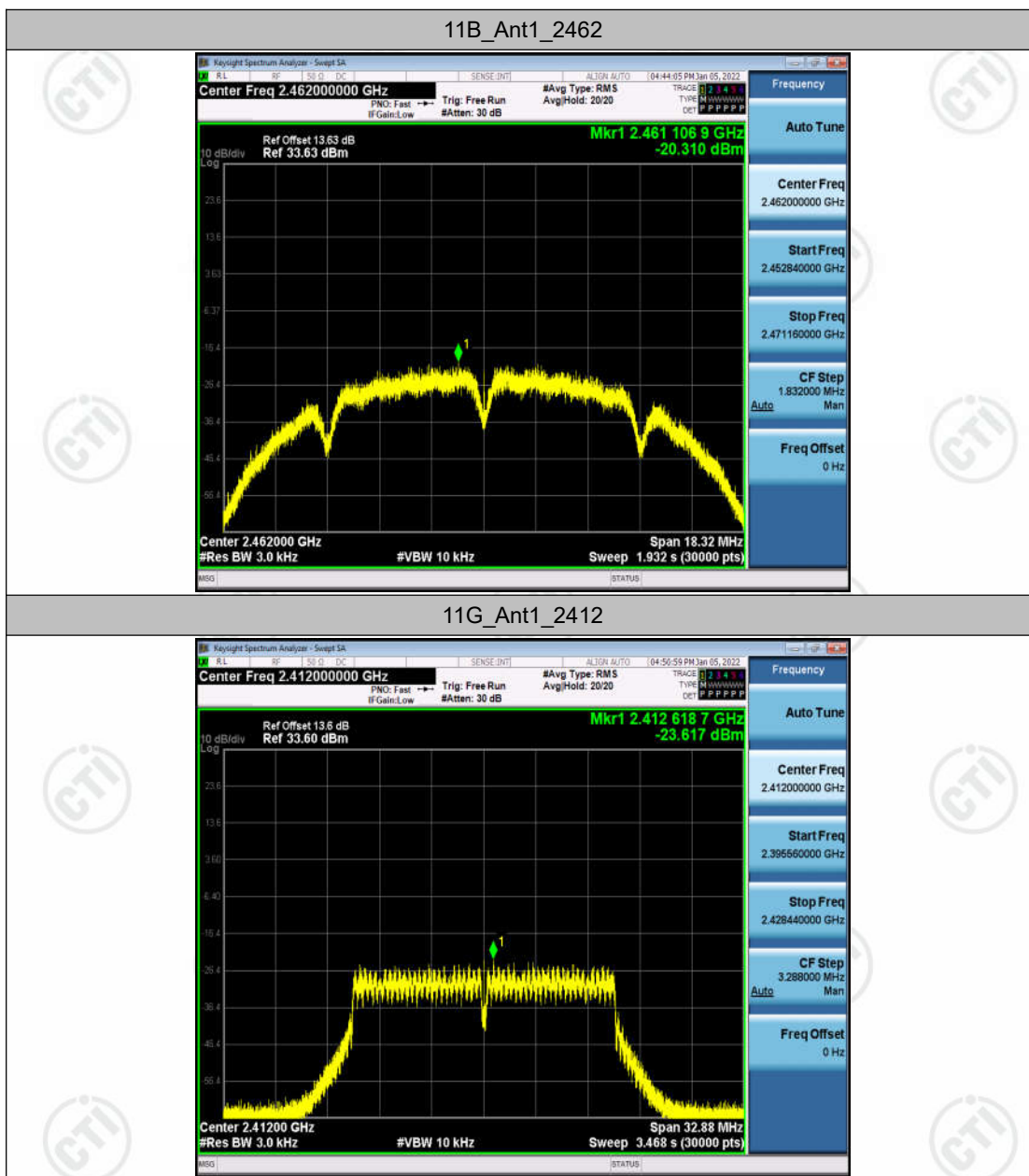
Appendix D: Maximum power spectral density

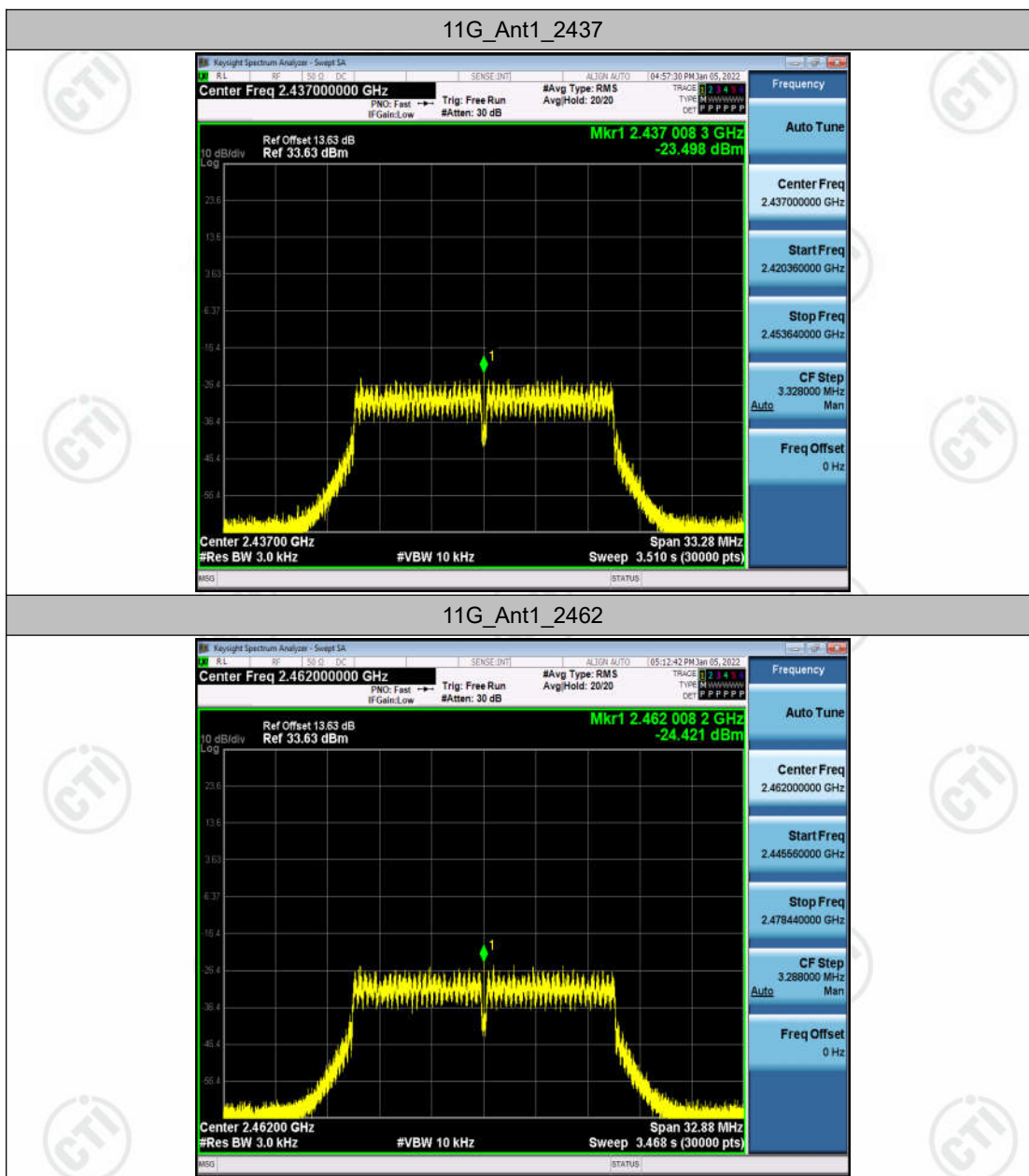
Test Result

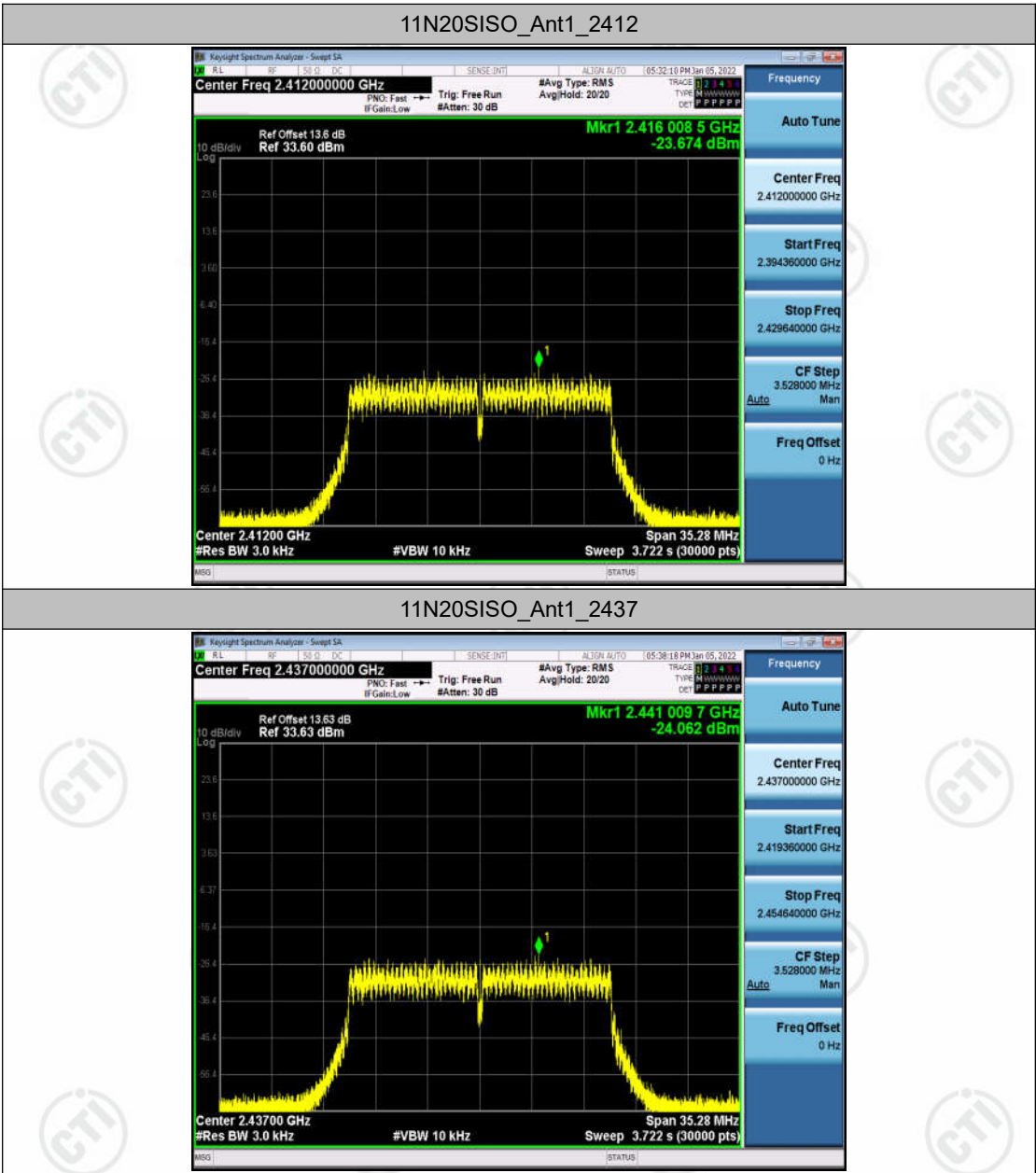
Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-19.29	<=8	PASS
		2437	-19.03	<=8	PASS
		2462	-20.31	<=8	PASS
11G	Ant1	2412	-23.62	<=8	PASS
		2437	-23.5	<=8	PASS
		2462	-24.42	<=8	PASS
11N20SISO	Ant1	2412	-23.67	<=8	PASS
		2437	-24.06	<=8	PASS
		2462	-24.61	<=8	PASS

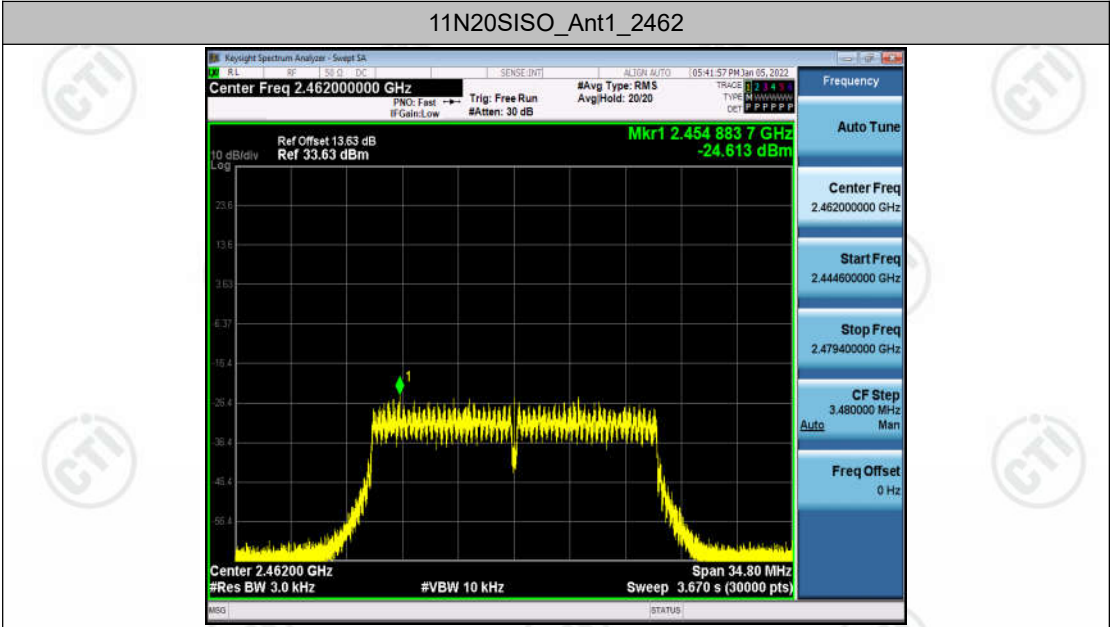
Test Graphs









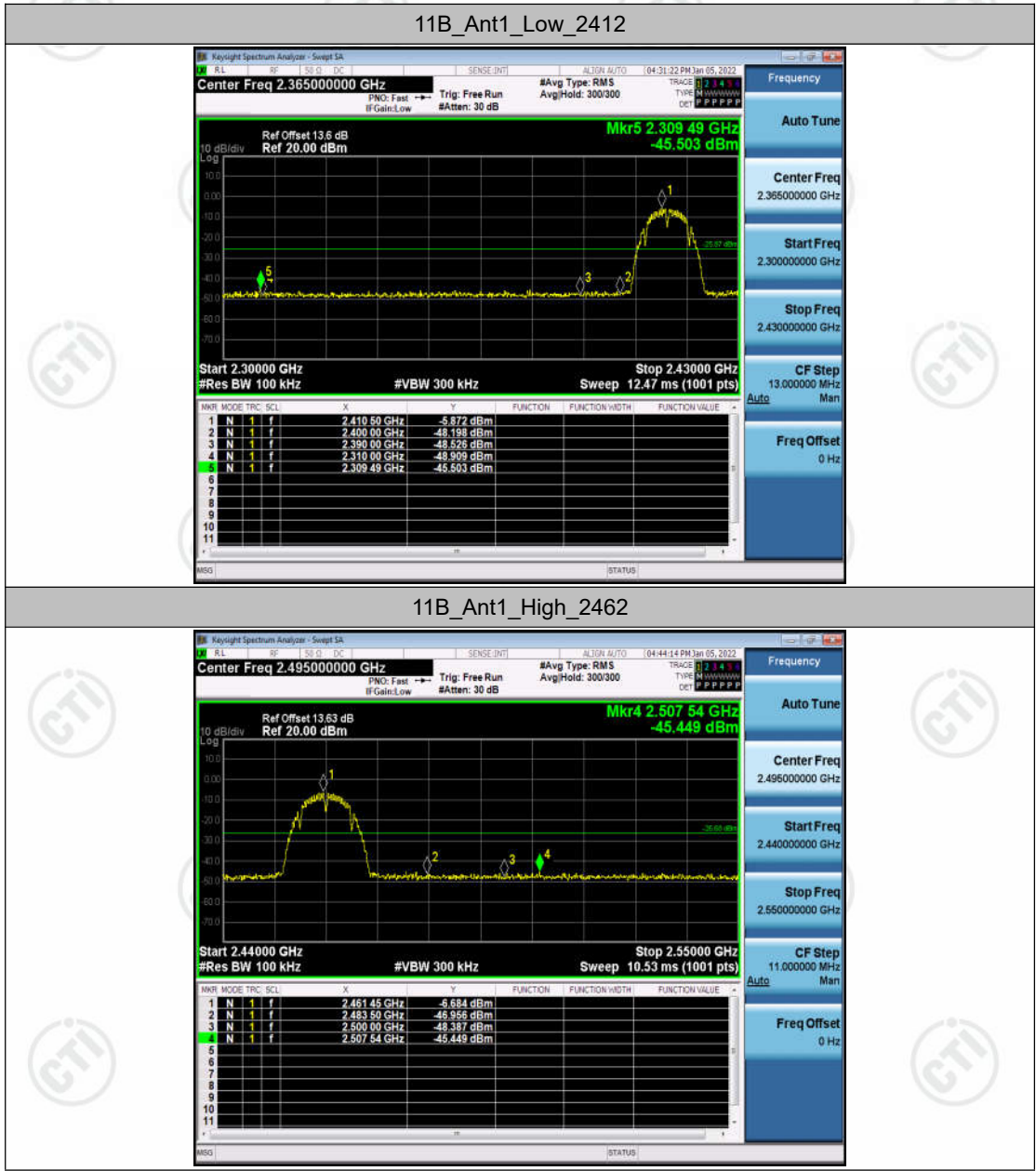


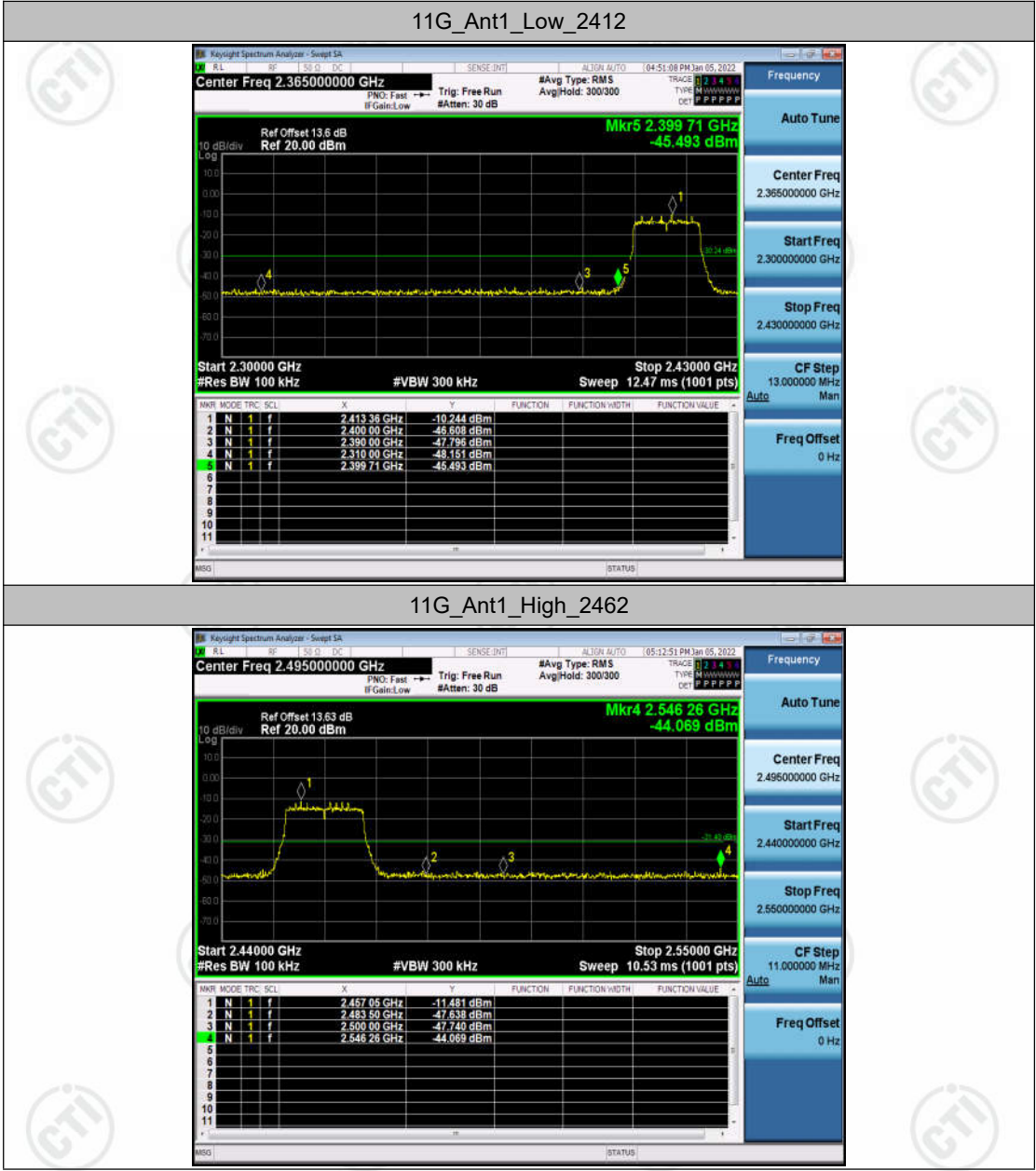
Appendix E: Band edge measurements

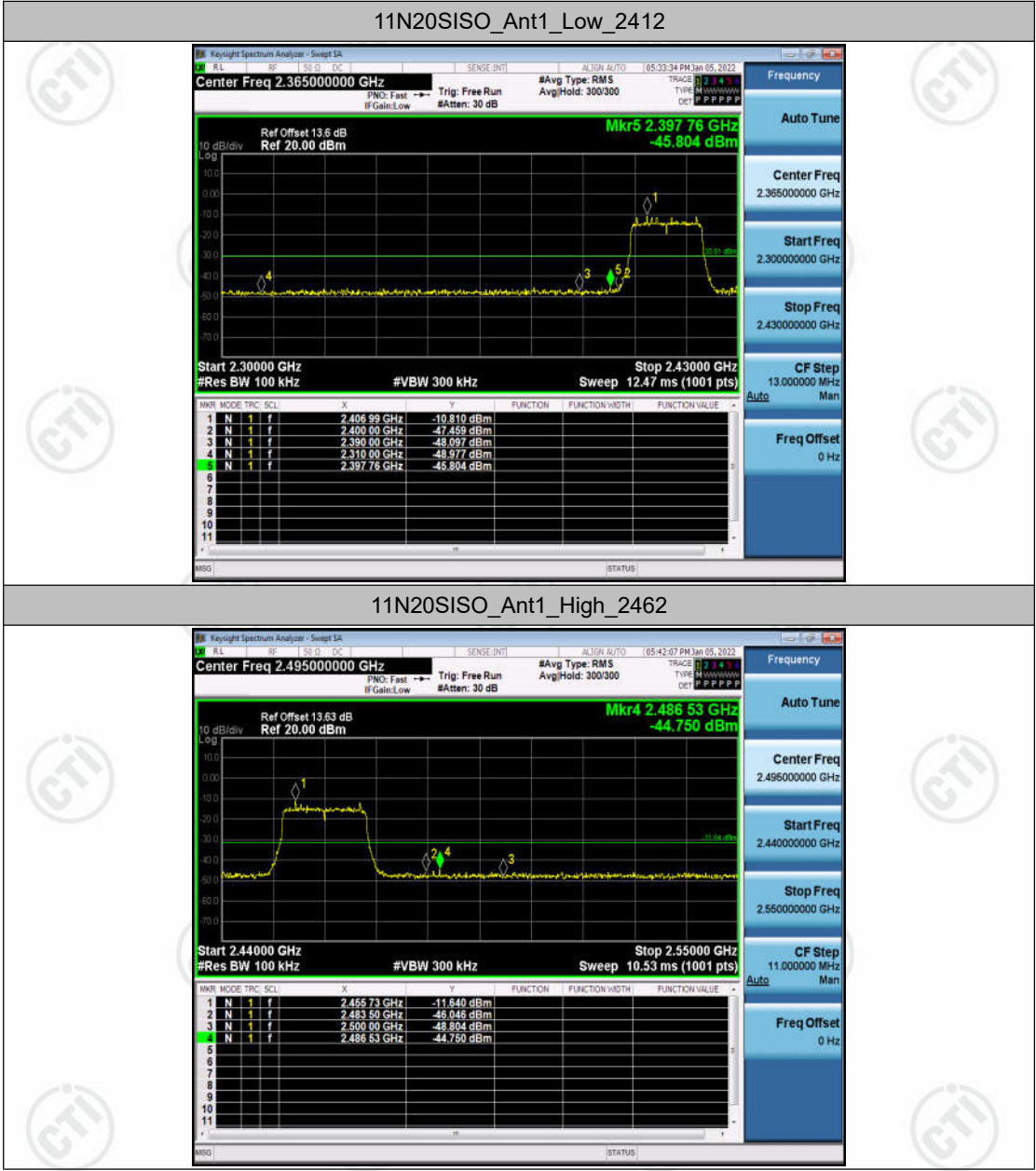
Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-5.87	-45.5	<=-25.87	PASS
		High	2462	-6.68	-45.45	<=-26.68	PASS
11G	Ant1	Low	2412	-10.24	-45.49	<=-30.24	PASS
		High	2462	-11.48	-44.07	<=-31.48	PASS
11N20SISO	Ant1	Low	2412	-10.81	-45.8	<=-30.81	PASS
		High	2462	-11.64	-44.75	<=-31.64	PASS

Test Graphs





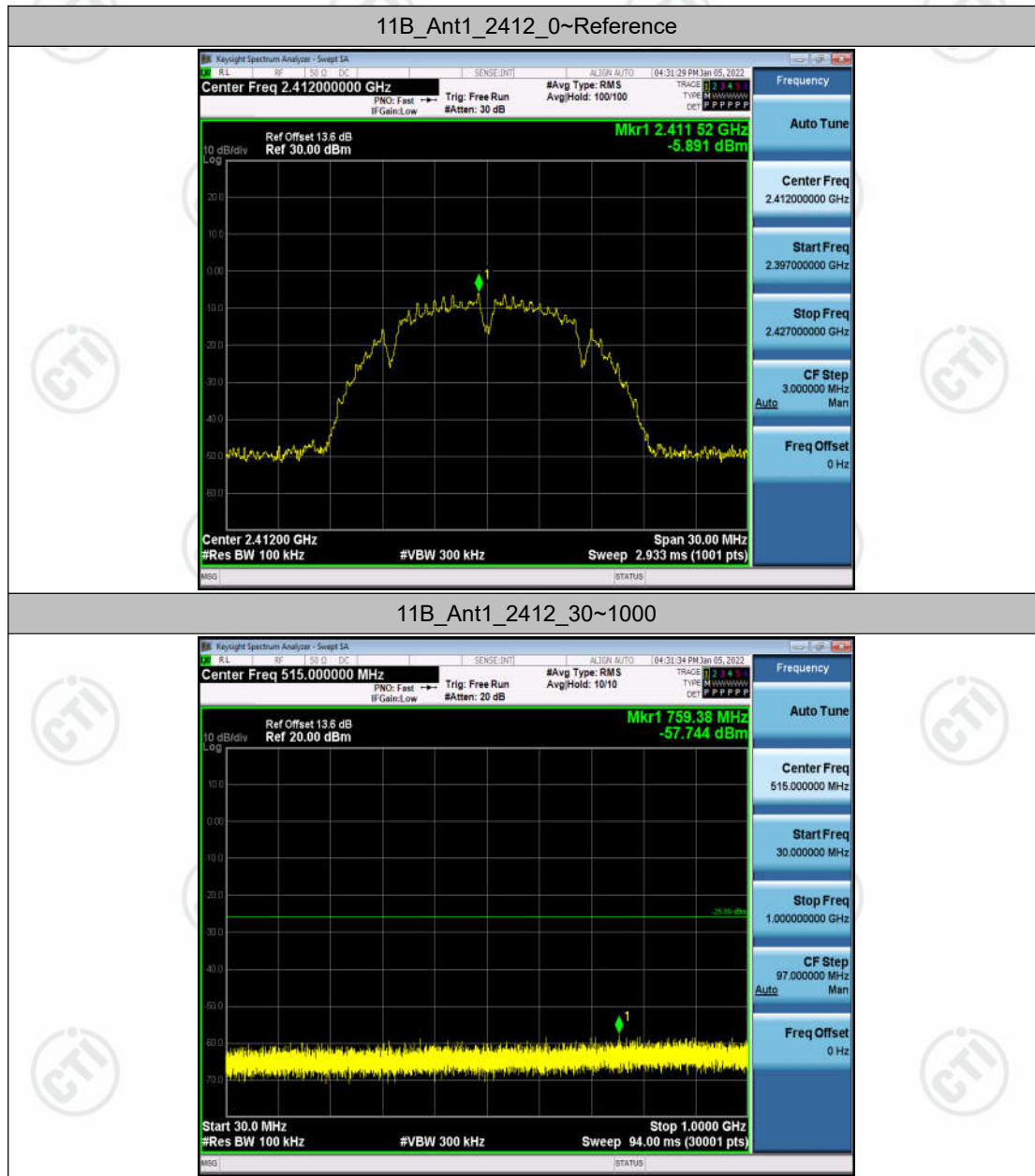


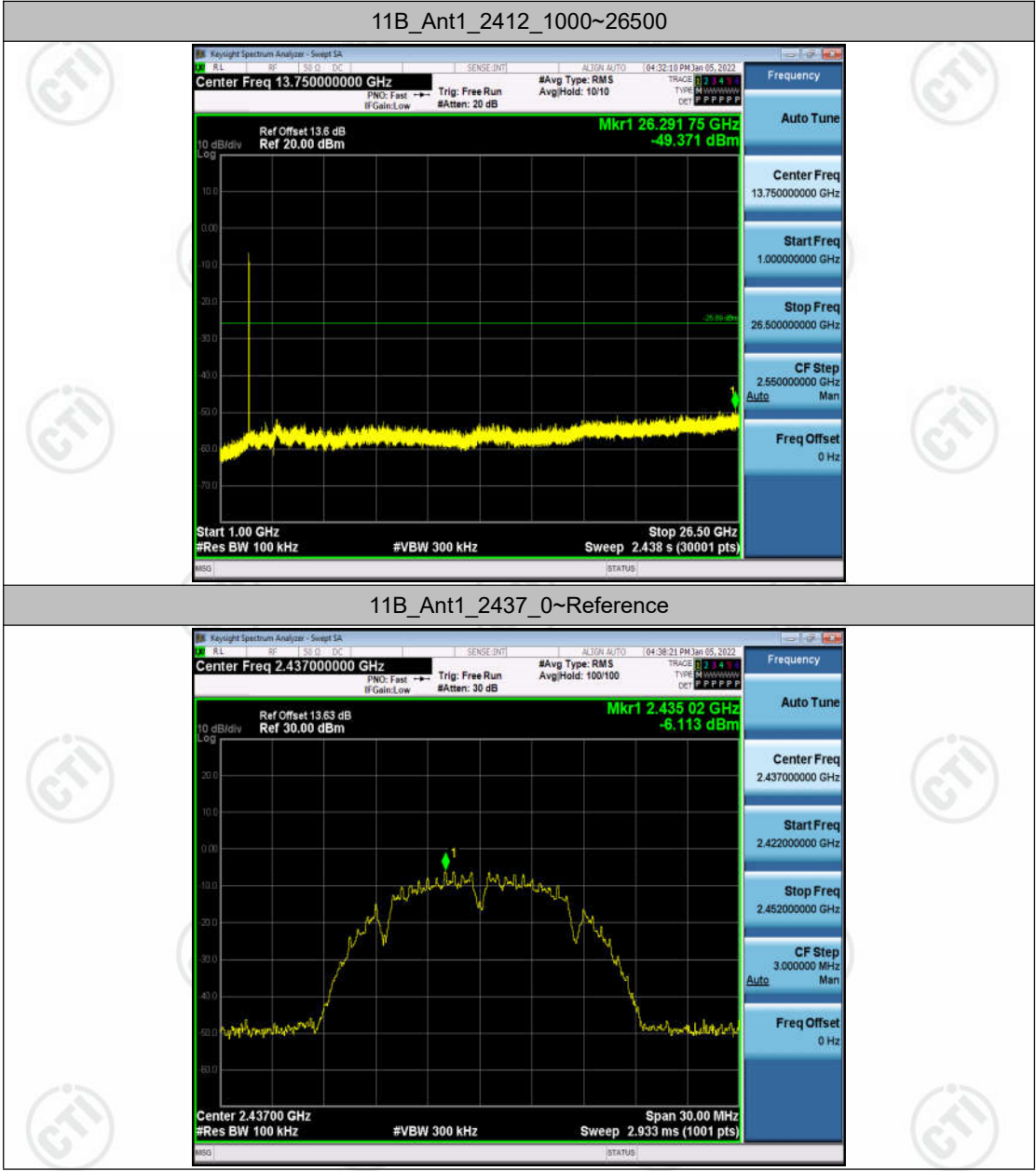
Appendix F: Conducted Spurious Emission

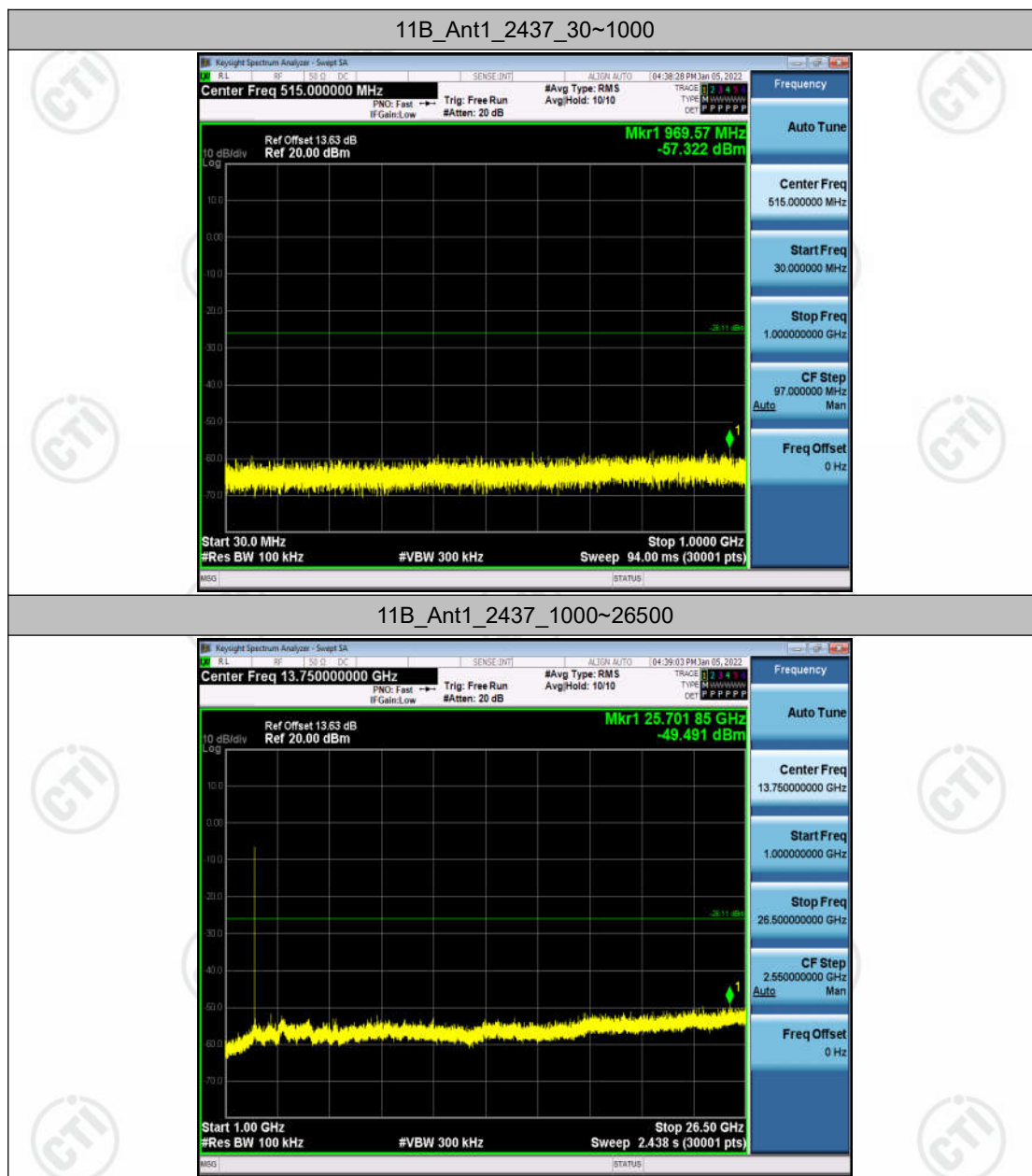
Test Result

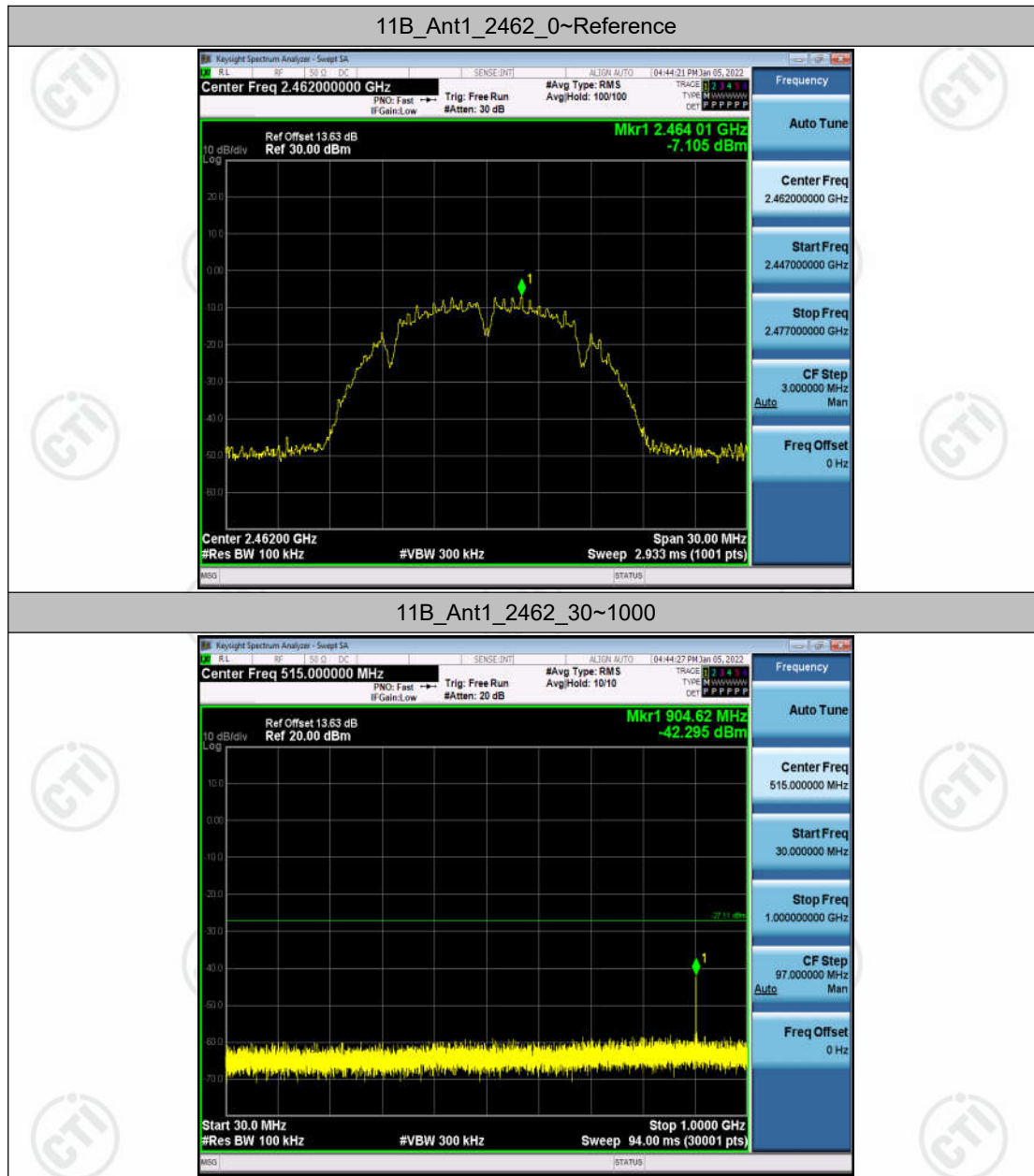
Test Mode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.89	-5.89	---	PASS
			30~1000	30~1000	-57.744	<=-25.891	PASS
			1000~26500	1000~26500	-49.371	<=-25.891	PASS
		2437	Reference	-6.11	-6.11	---	PASS
			30~1000	30~1000	-57.322	<=-26.113	PASS
			1000~26500	1000~26500	-49.491	<=-26.113	PASS
		2462	Reference	-7.11	-7.11	---	PASS
			30~1000	30~1000	-42.295	<=-27.105	PASS
			1000~26500	1000~26500	-48.803	<=-27.105	PASS
11G	Ant1	2412	Reference	-10.86	-10.86	---	PASS
			30~1000	30~1000	-56.9	<=-30.859	PASS
			1000~26500	1000~26500	-49.519	<=-30.859	PASS
		2437	Reference	-10.64	-10.64	---	PASS
			30~1000	30~1000	-35.58	<=-30.636	PASS
			1000~26500	1000~26500	-48.934	<=-30.636	PASS
		2462	Reference	-12.24	-12.24	---	PASS
			30~1000	30~1000	-57.261	<=-32.236	PASS
			1000~26500	1000~26500	-48.833	<=-32.236	PASS
11N20SI SO	Ant1	2412	Reference	-13.35	-13.35	---	PASS
			30~1000	30~1000	-57.315	<=-33.345	PASS
			1000~26500	1000~26500	-49.463	<=-33.345	PASS
		2437	Reference	-10.37	-10.37	---	PASS
			30~1000	30~1000	-57.496	<=-30.372	PASS
			1000~26500	1000~26500	-49.159	<=-30.372	PASS
		2462	Reference	-13.44	-13.44	---	PASS
			30~1000	30~1000	-56.759	<=-33.439	PASS
			1000~26500	1000~26500	-49.359	<=-33.439	PASS

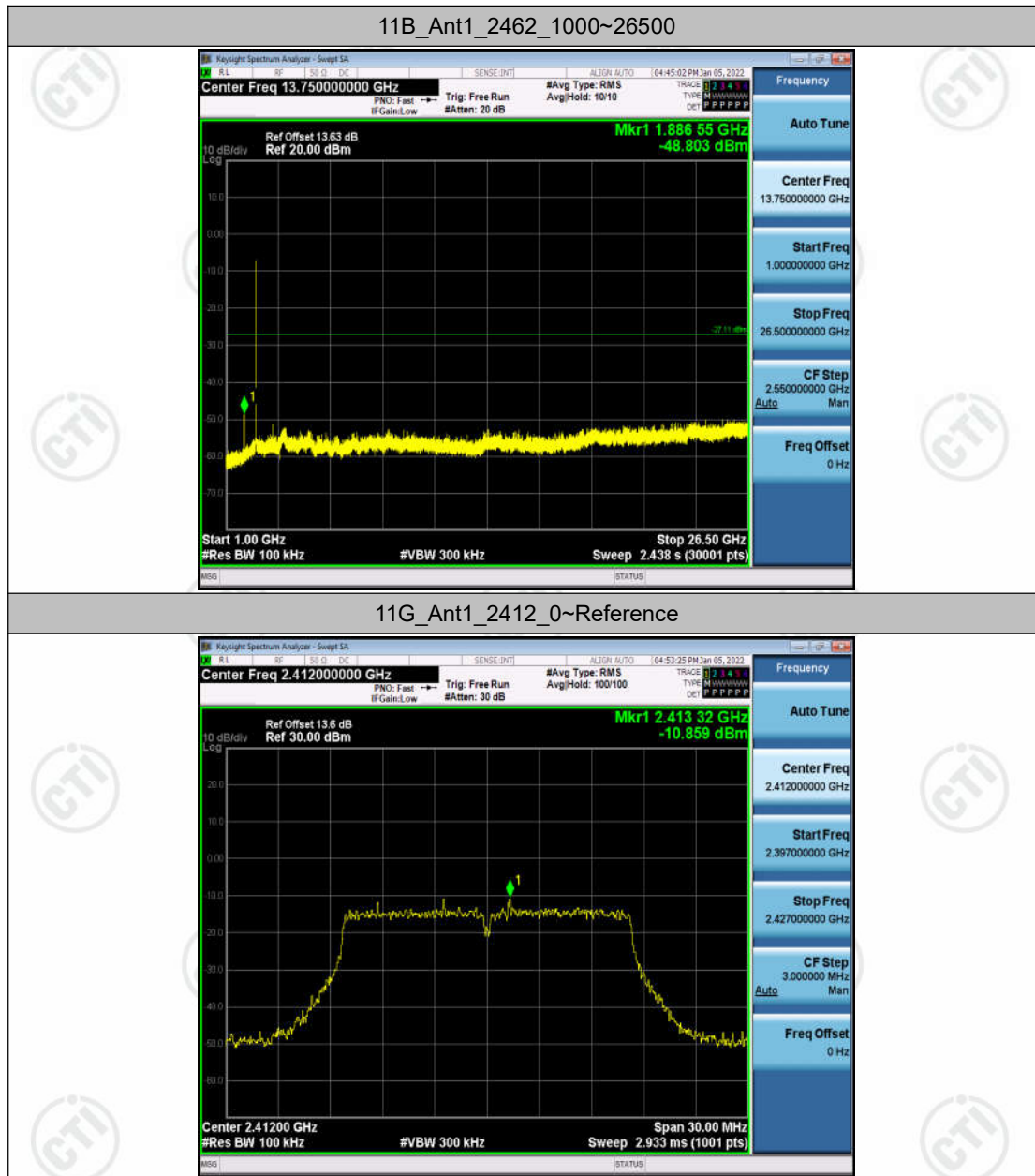
Test Graphs



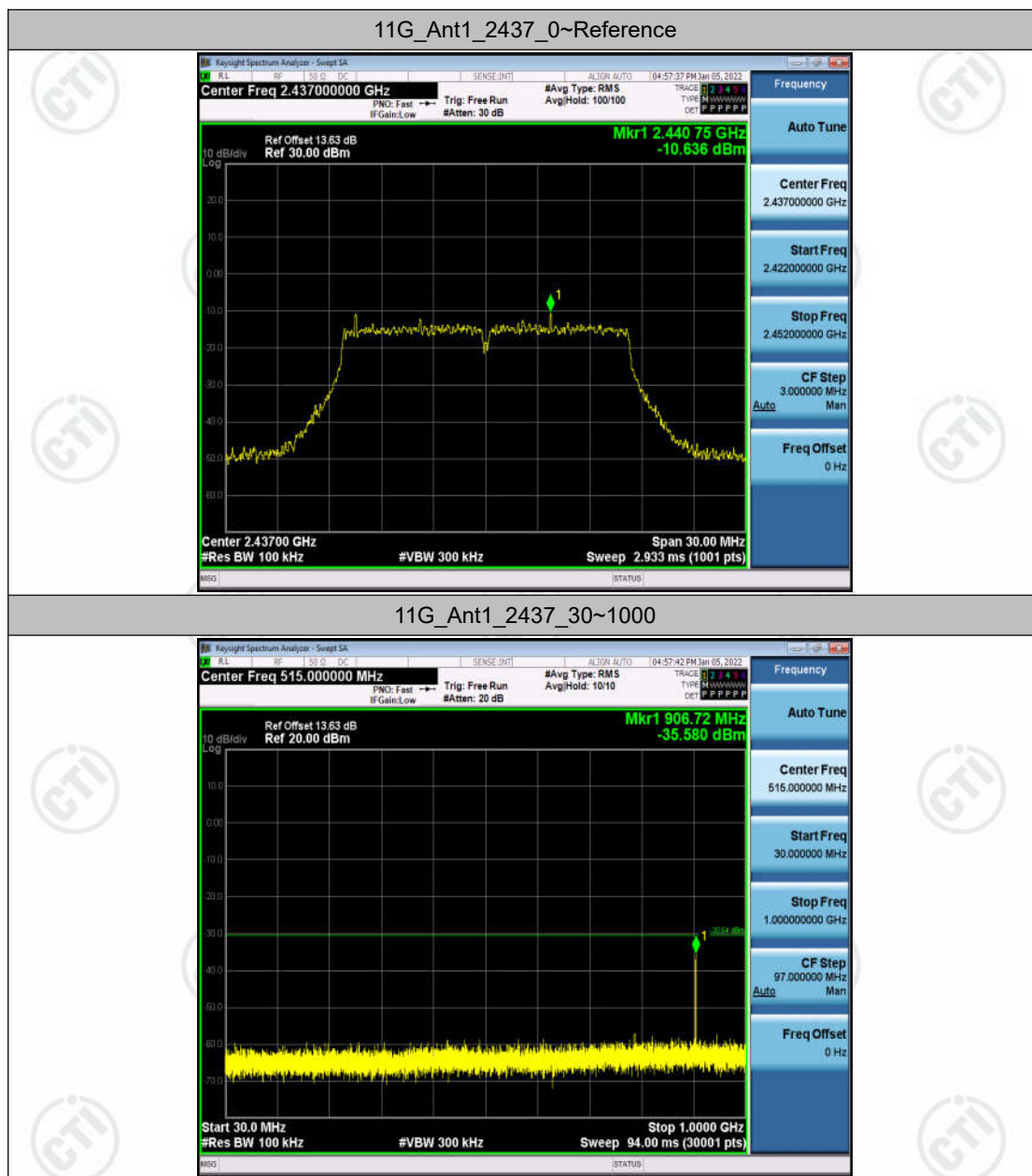


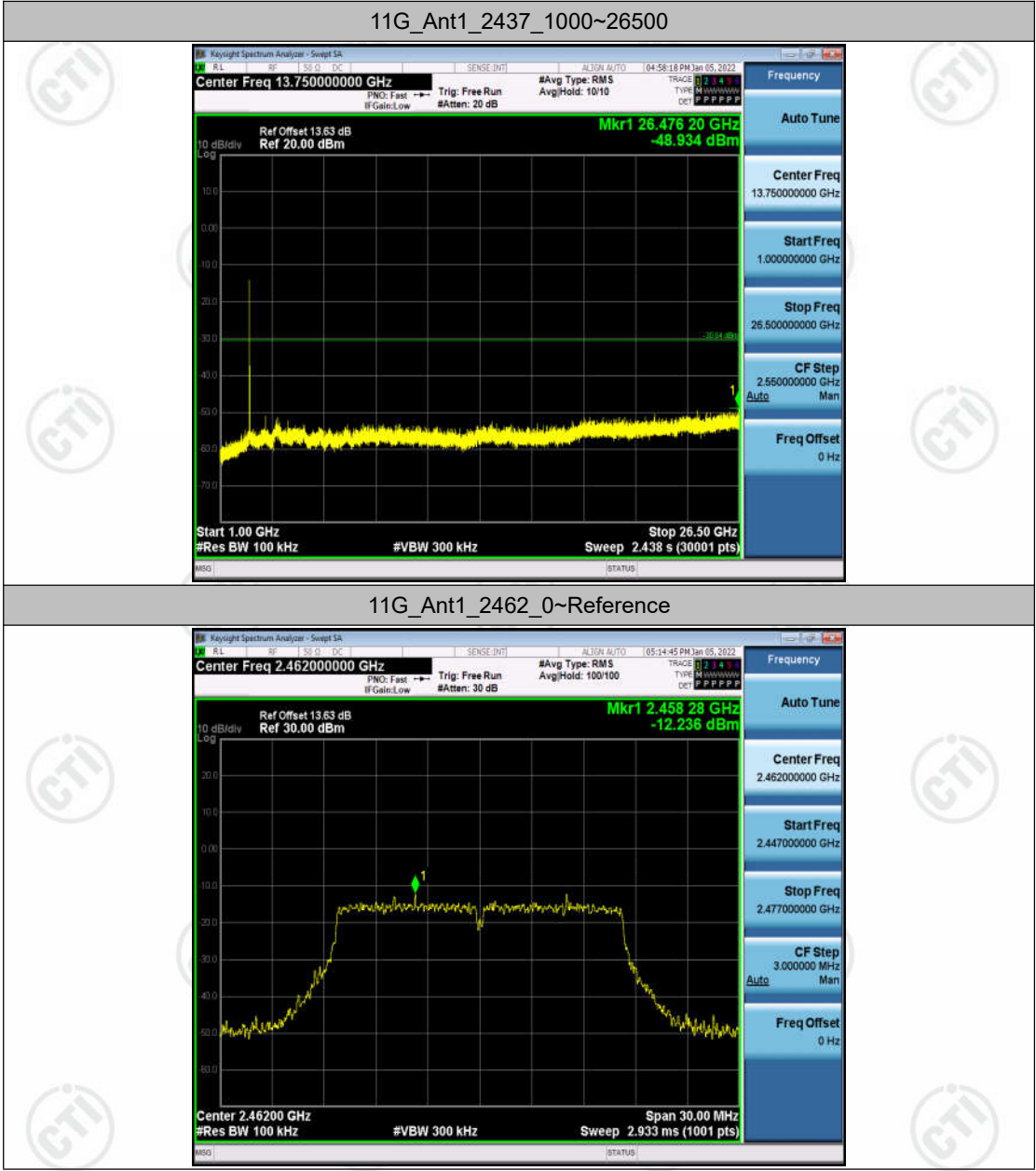


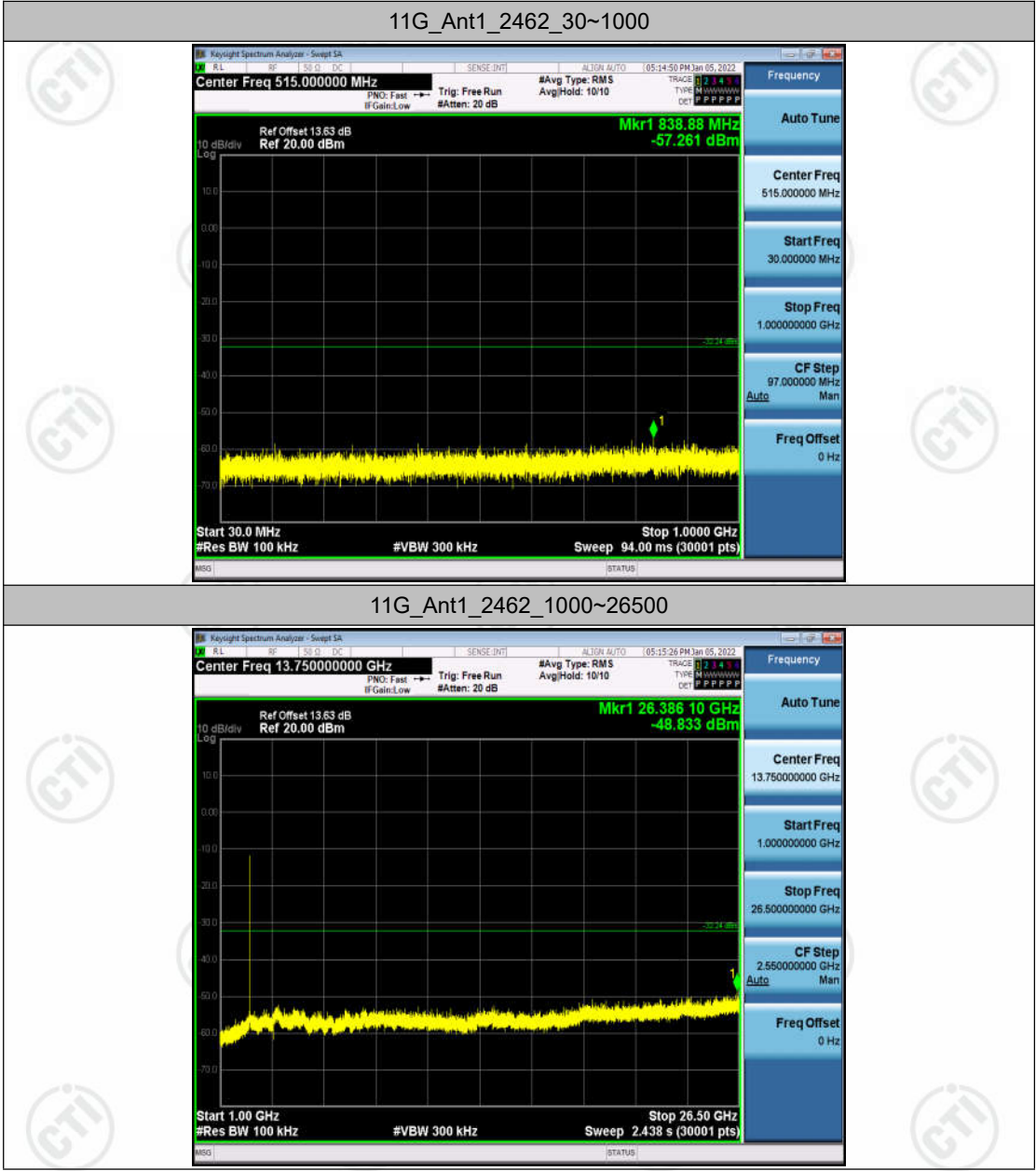


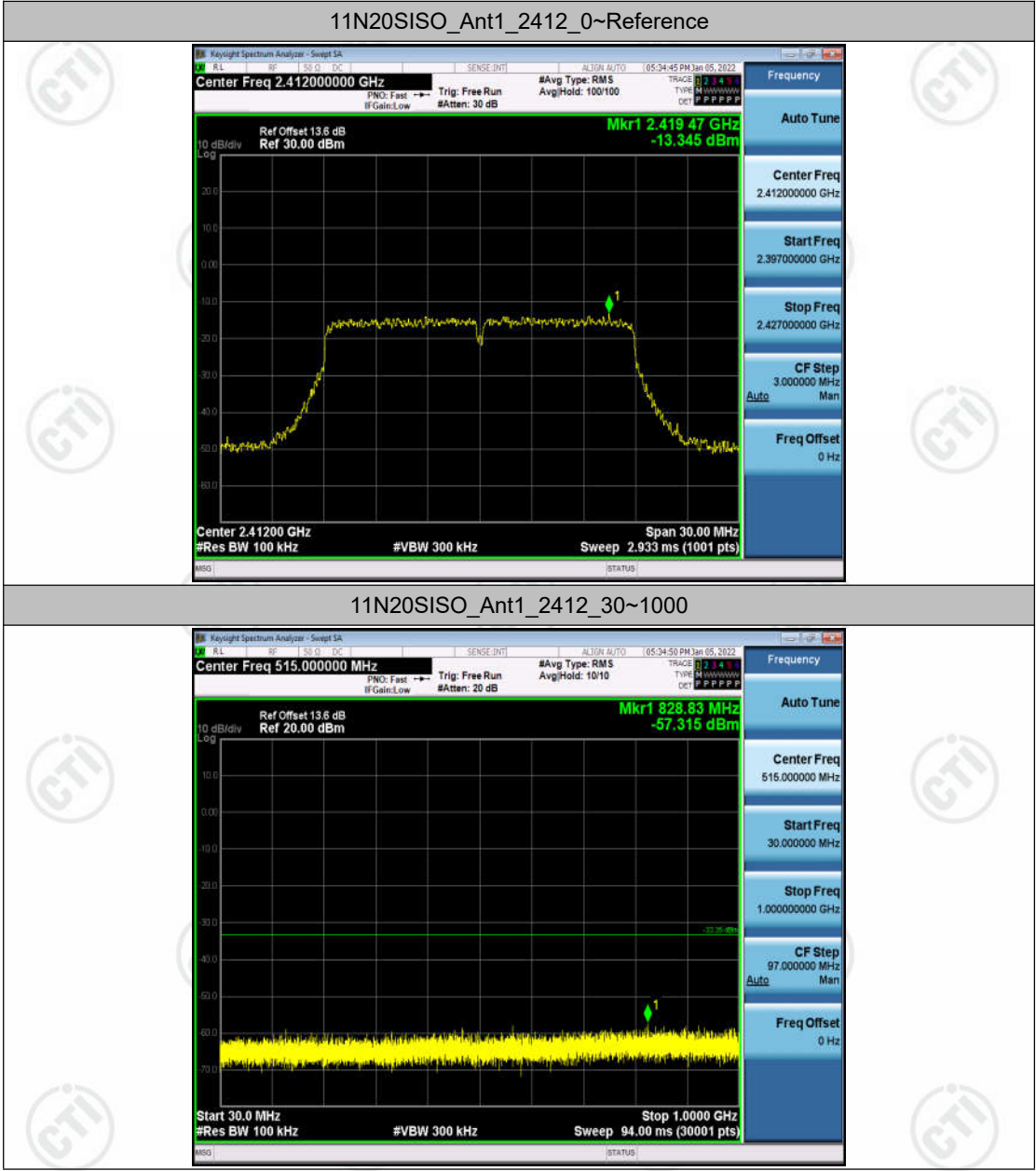


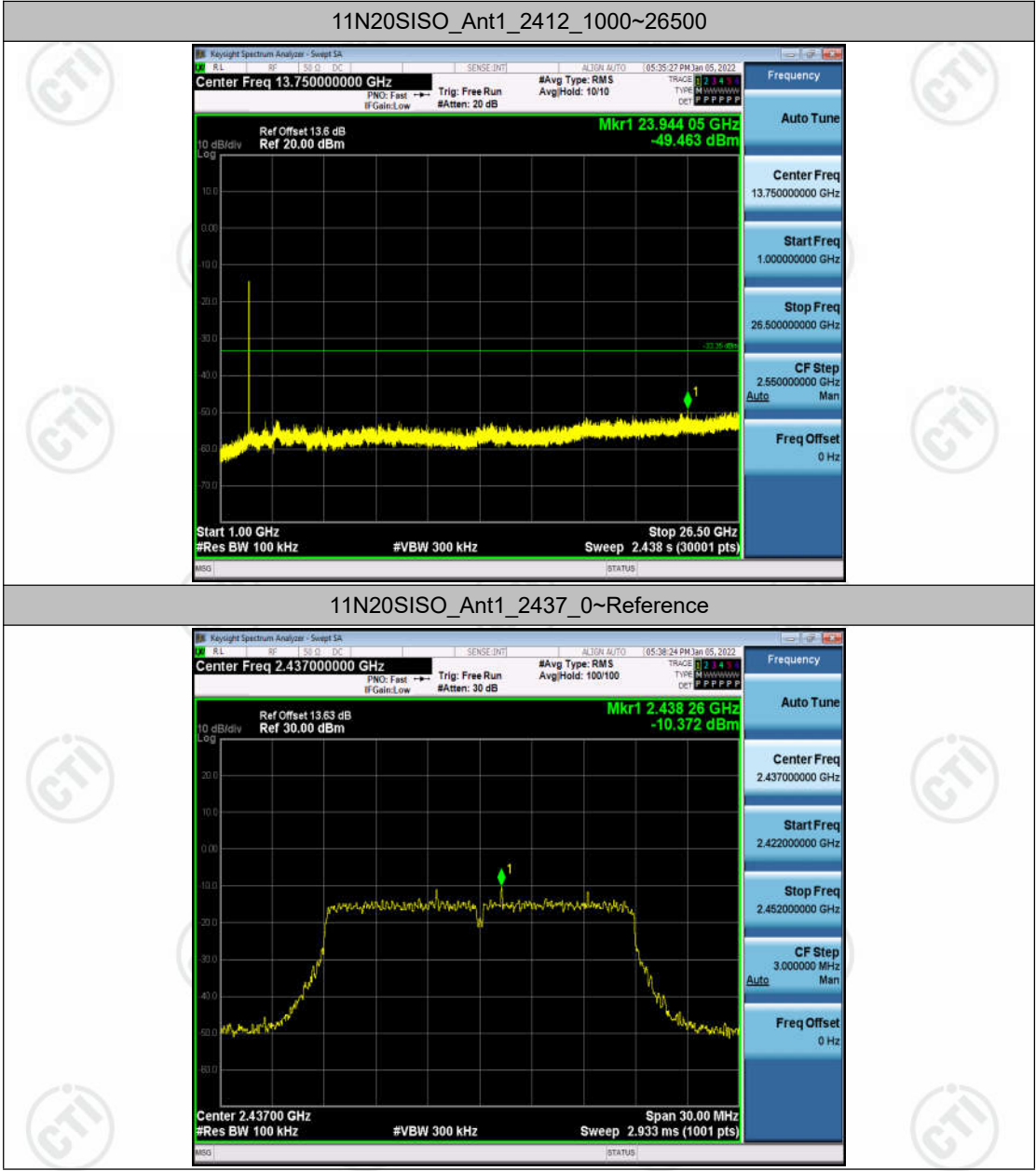


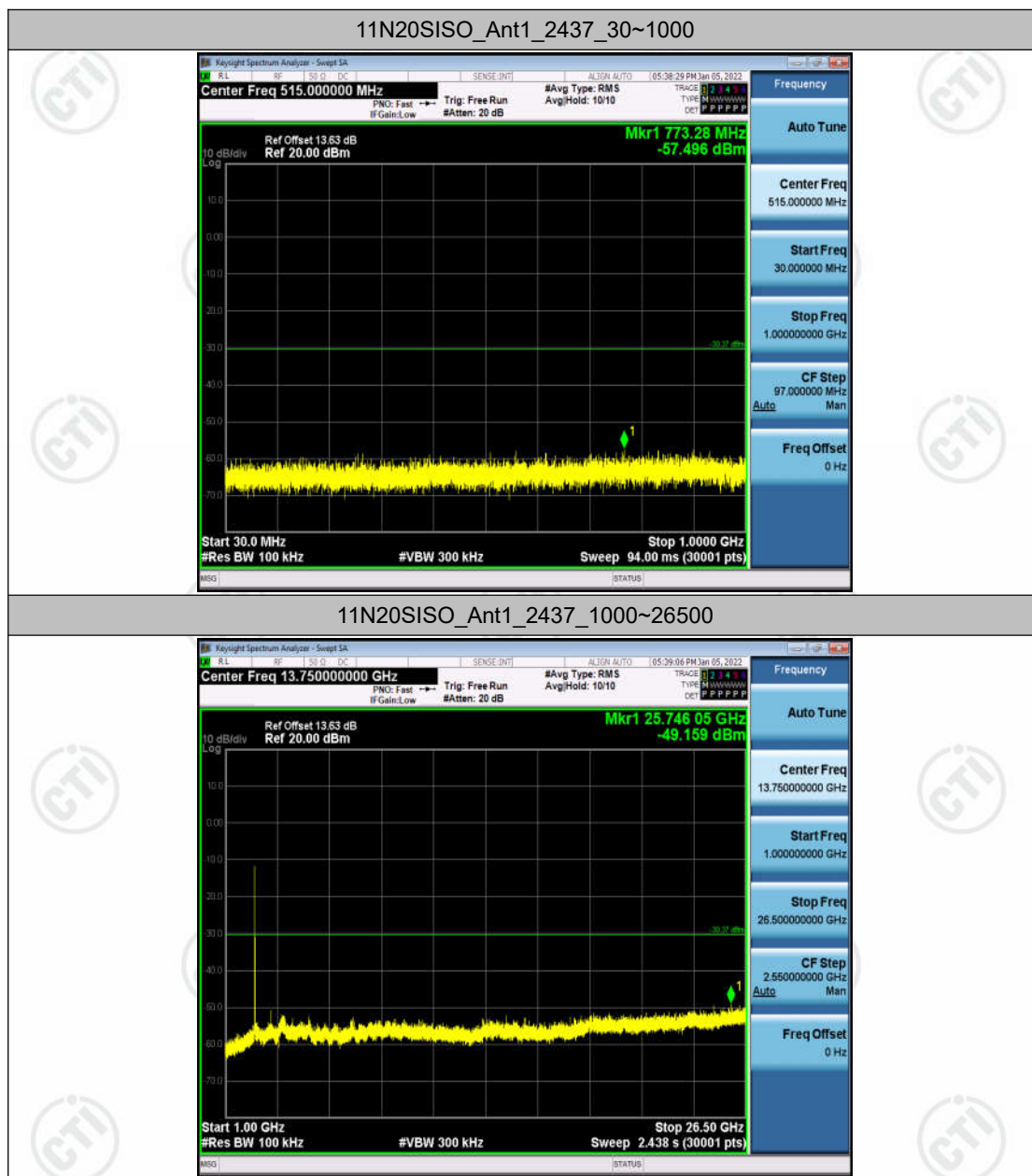


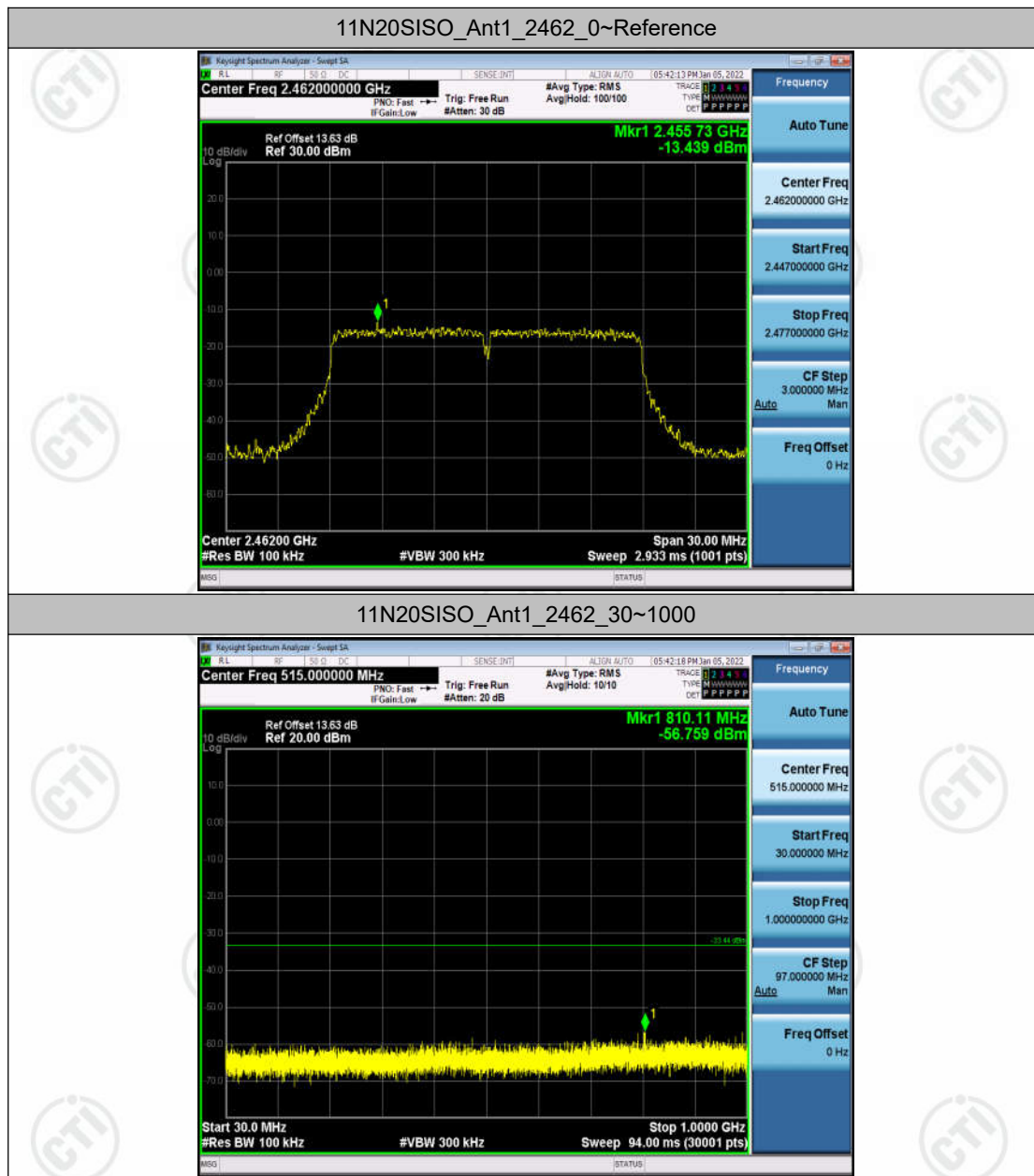














Appendix G: Duty Cycle

Test Result

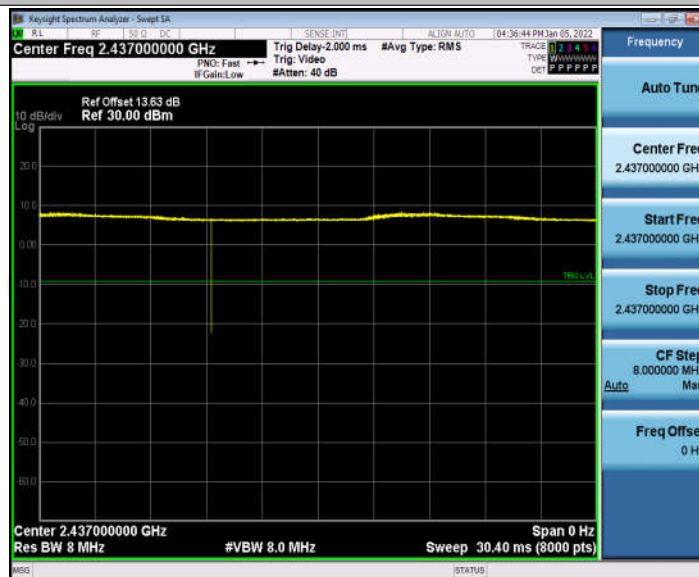
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	26.20	26.23	99.91	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2462	30.00	30.00	100.00	---	PASS
11G	Ant1	2412	5.48	5.50	99.68	---	PASS
		2437	5.48	5.50	99.65	---	PASS
		2462	5.48	5.50	99.65	---	PASS
11N20SISO	Ant1	2412	5.08	5.10	99.65	---	PASS
		2437	5.08	5.10	99.63	---	PASS
		2462	5.08	5.10	99.63	---	PASS

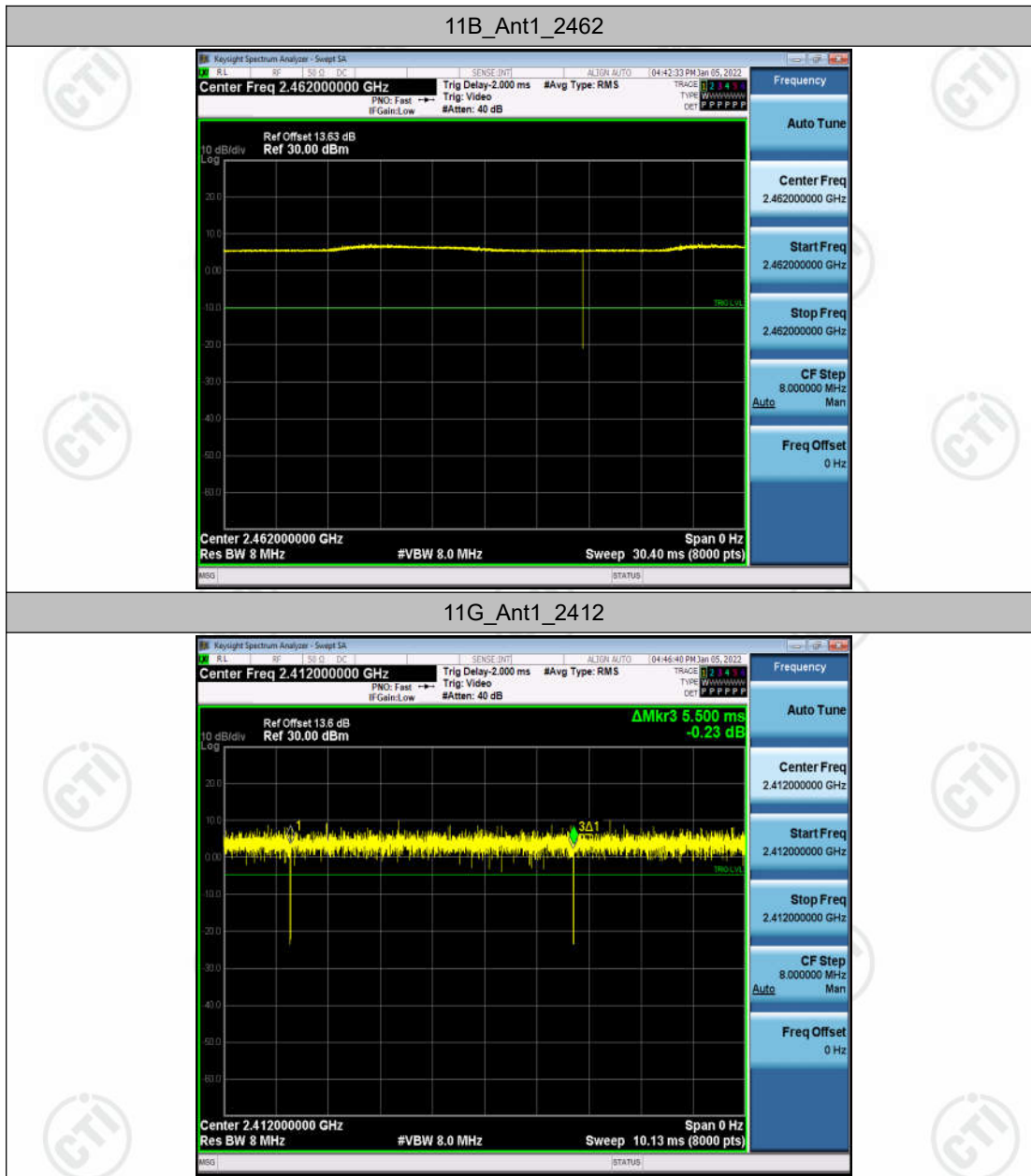
Test Graphs

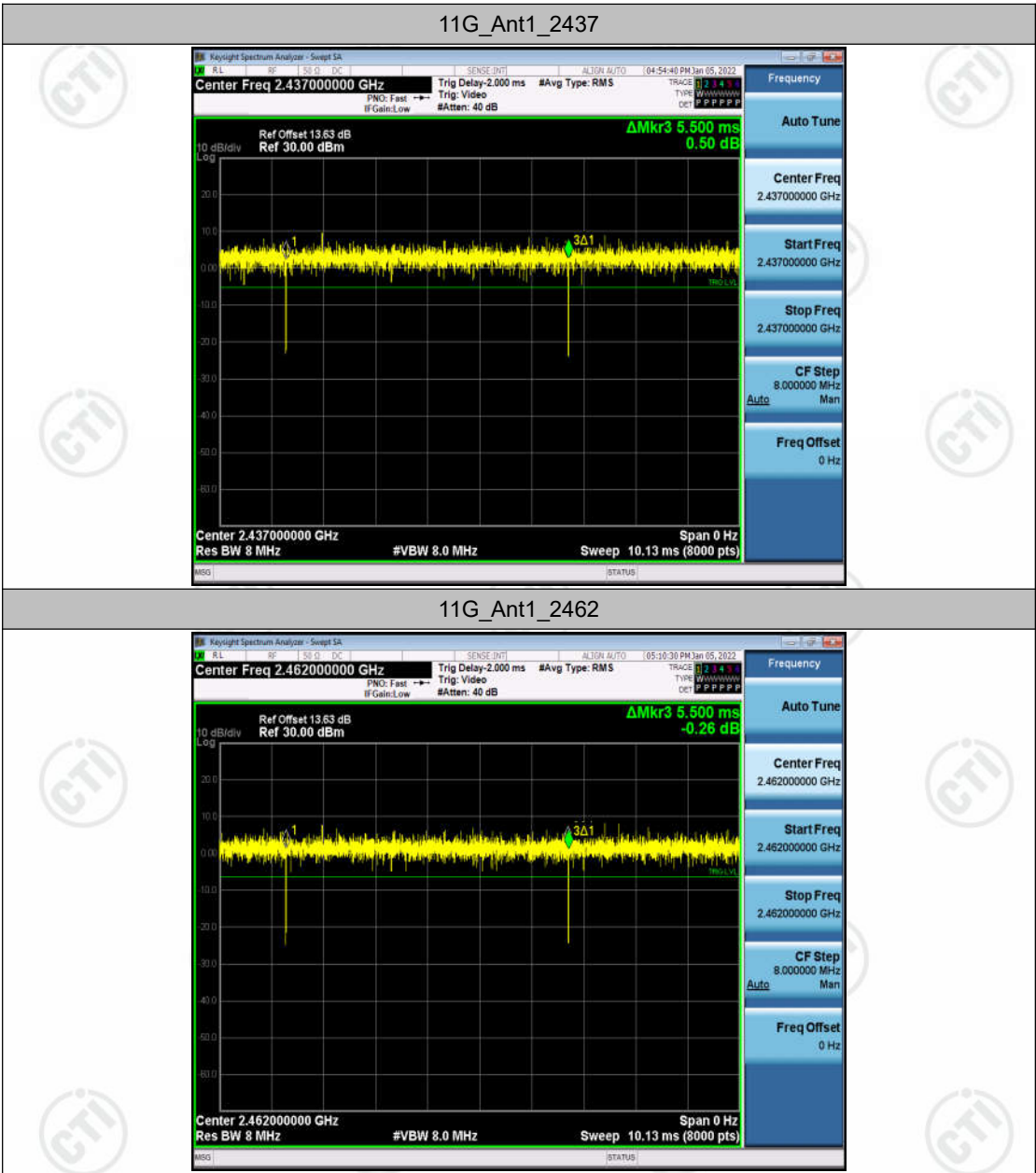
11B_Ant1_2412

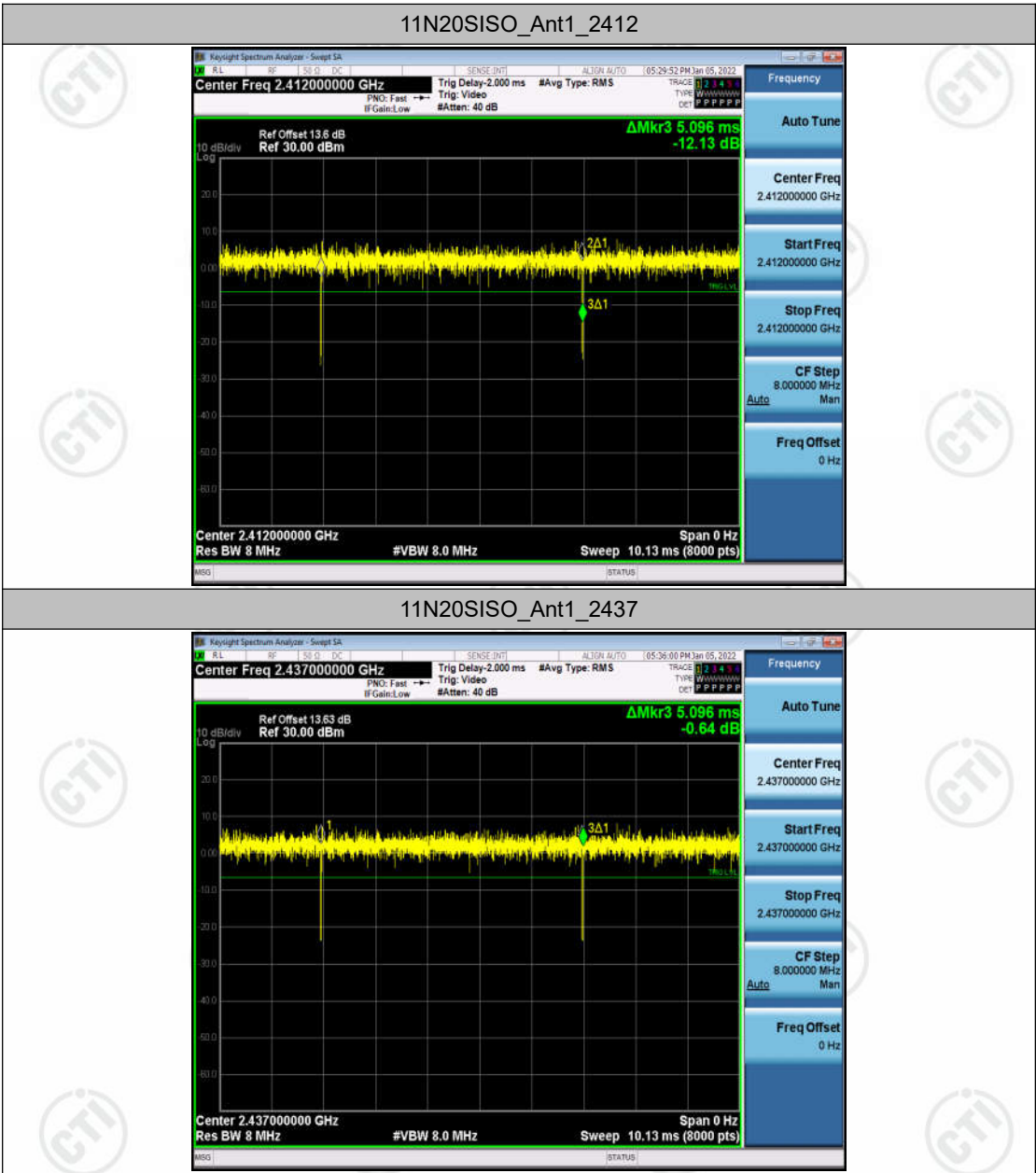


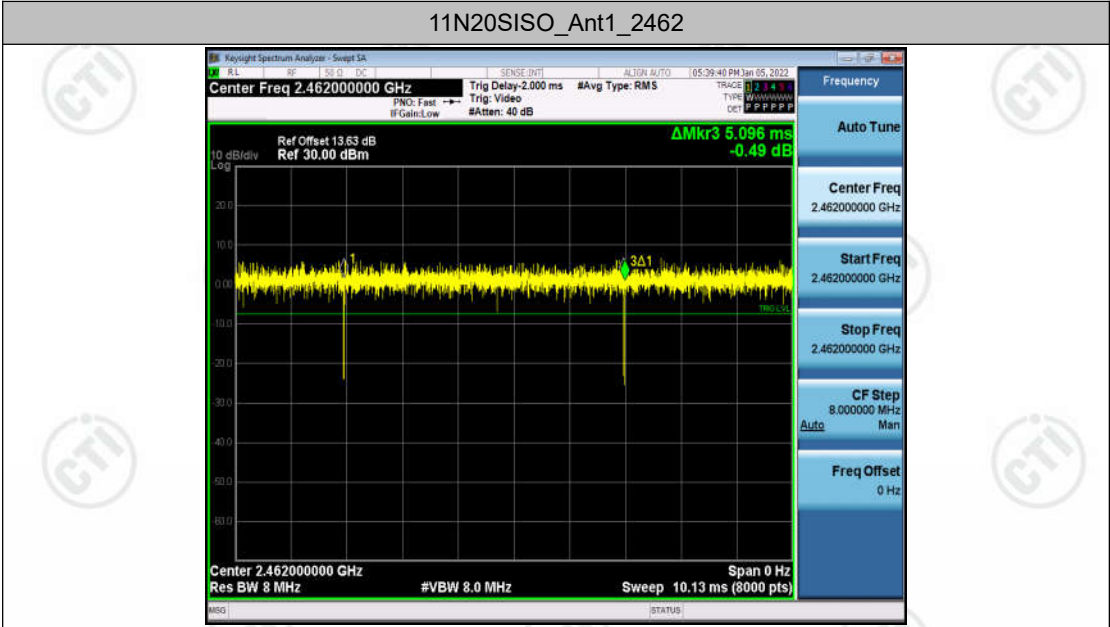
11B_Ant1_2437











*** End of Report ***