

Appendix: 2.4G WIFI

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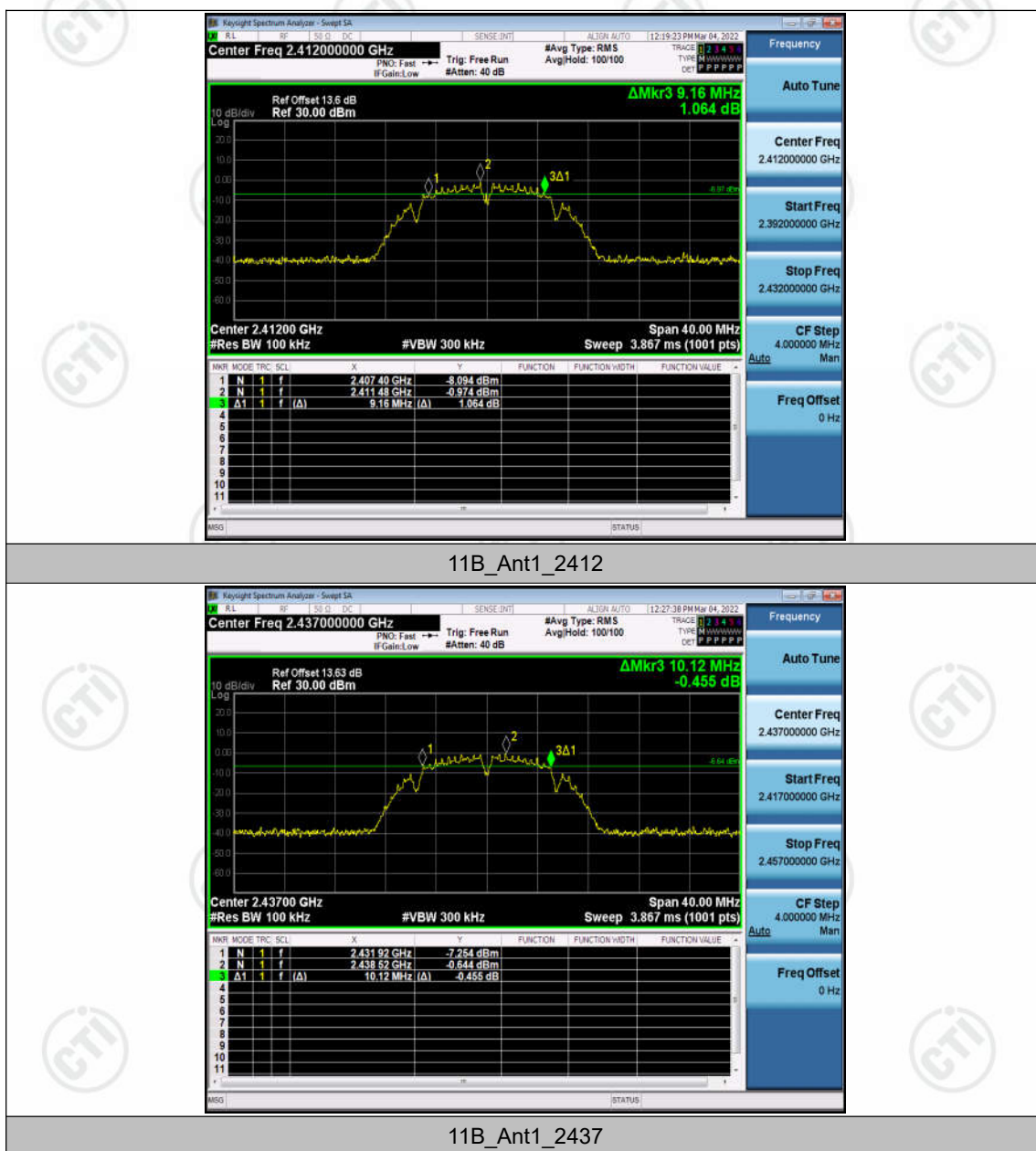
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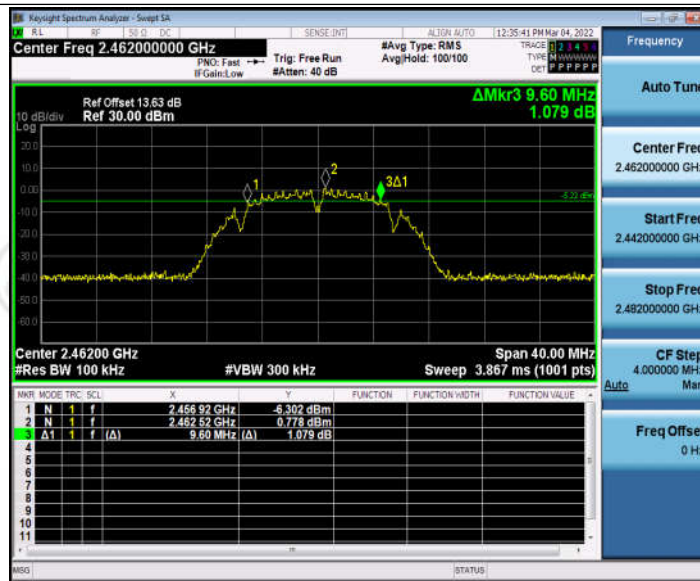
Appendix A: DTS Bandwidth

Test Result

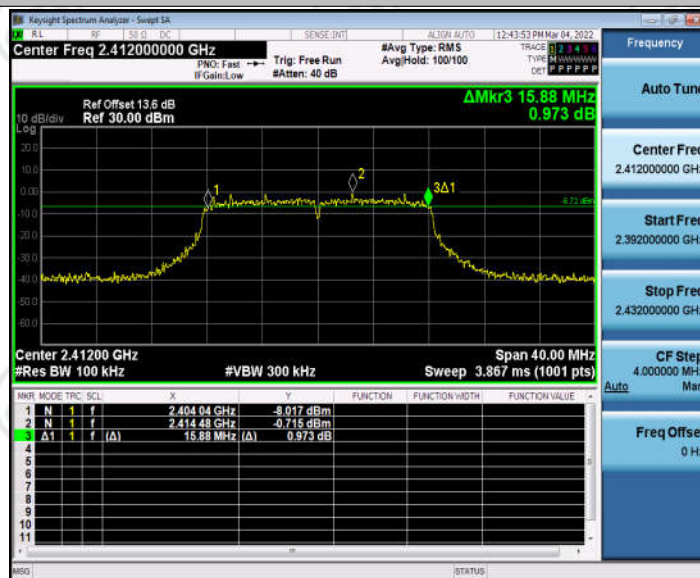
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.160	2407.400	2416.560	0.5	PASS
		2437	10.120	2431.920	2442.040	0.5	PASS
		2462	9.600	2456.920	2466.520	0.5	PASS
11G	Ant1	2412	15.880	2404.040	2419.920	0.5	PASS
		2437	16.000	2429.160	2445.160	0.5	PASS
		2462	15.840	2454.040	2469.880	0.5	PASS
11N20SISO	Ant1	2412	16.480	2403.800	2420.280	0.5	PASS
		2437	15.640	2429.520	2445.160	0.5	PASS
		2462	15.600	2454.160	2469.760	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.320	2439.840	0.5	PASS
		2437	35.440	2419.400	2454.840	0.5	PASS
		2452	35.200	2434.400	2469.600	0.5	PASS

Test Graphs





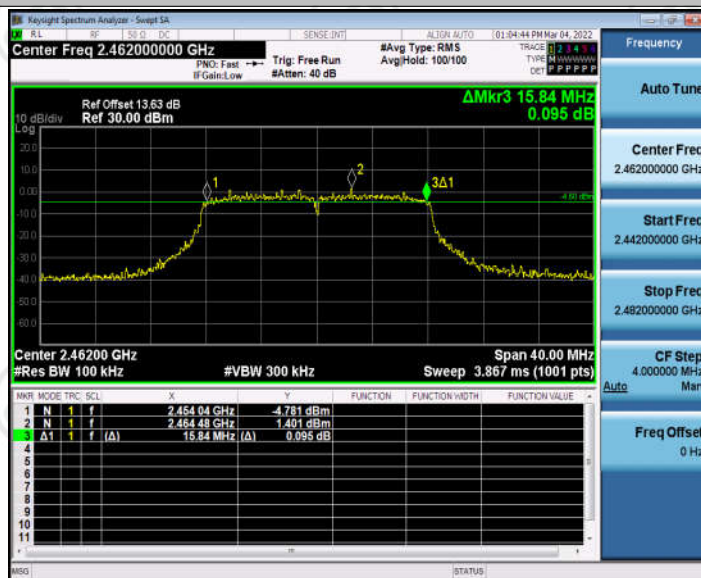
11B_Ant1_2462



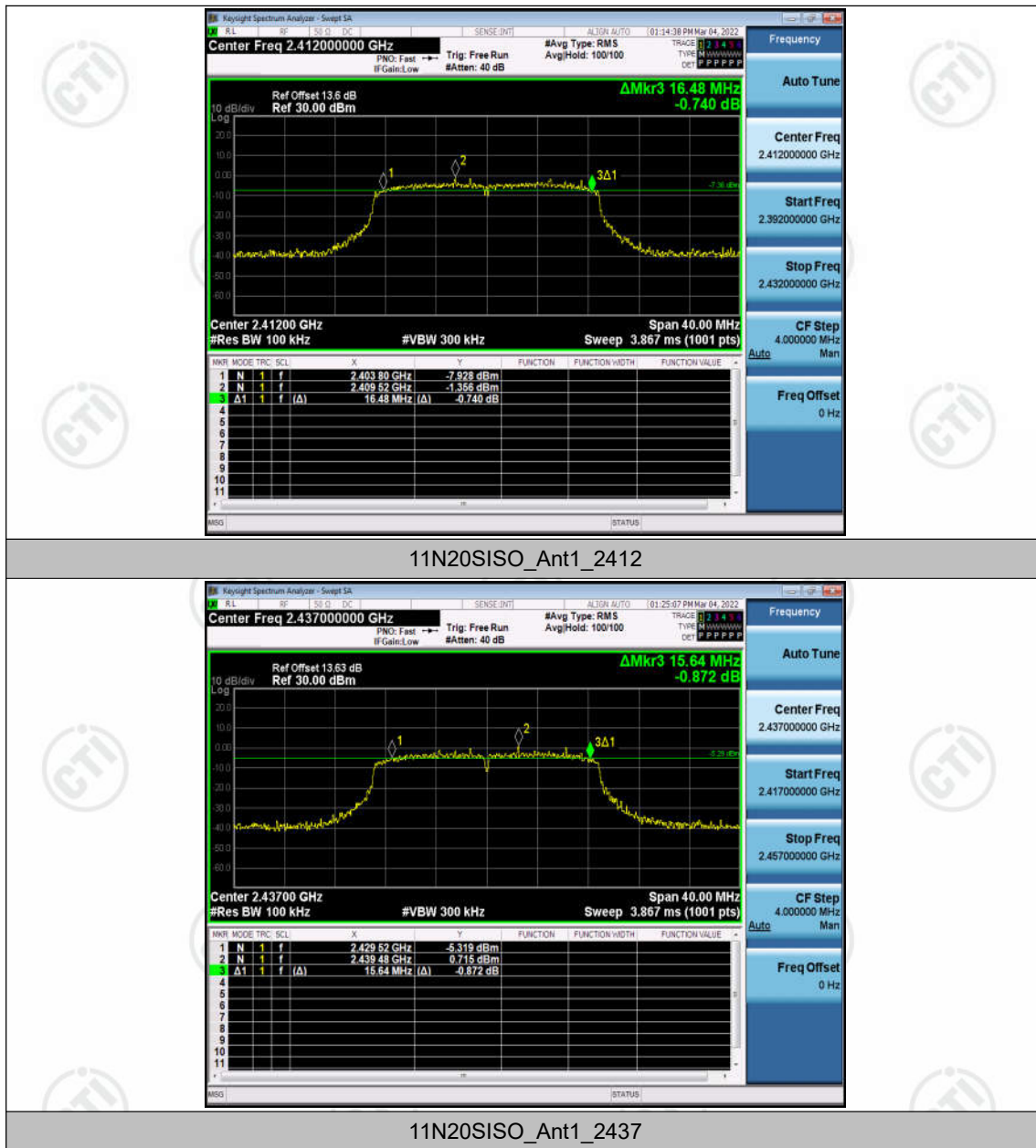
11G_Ant1_2412

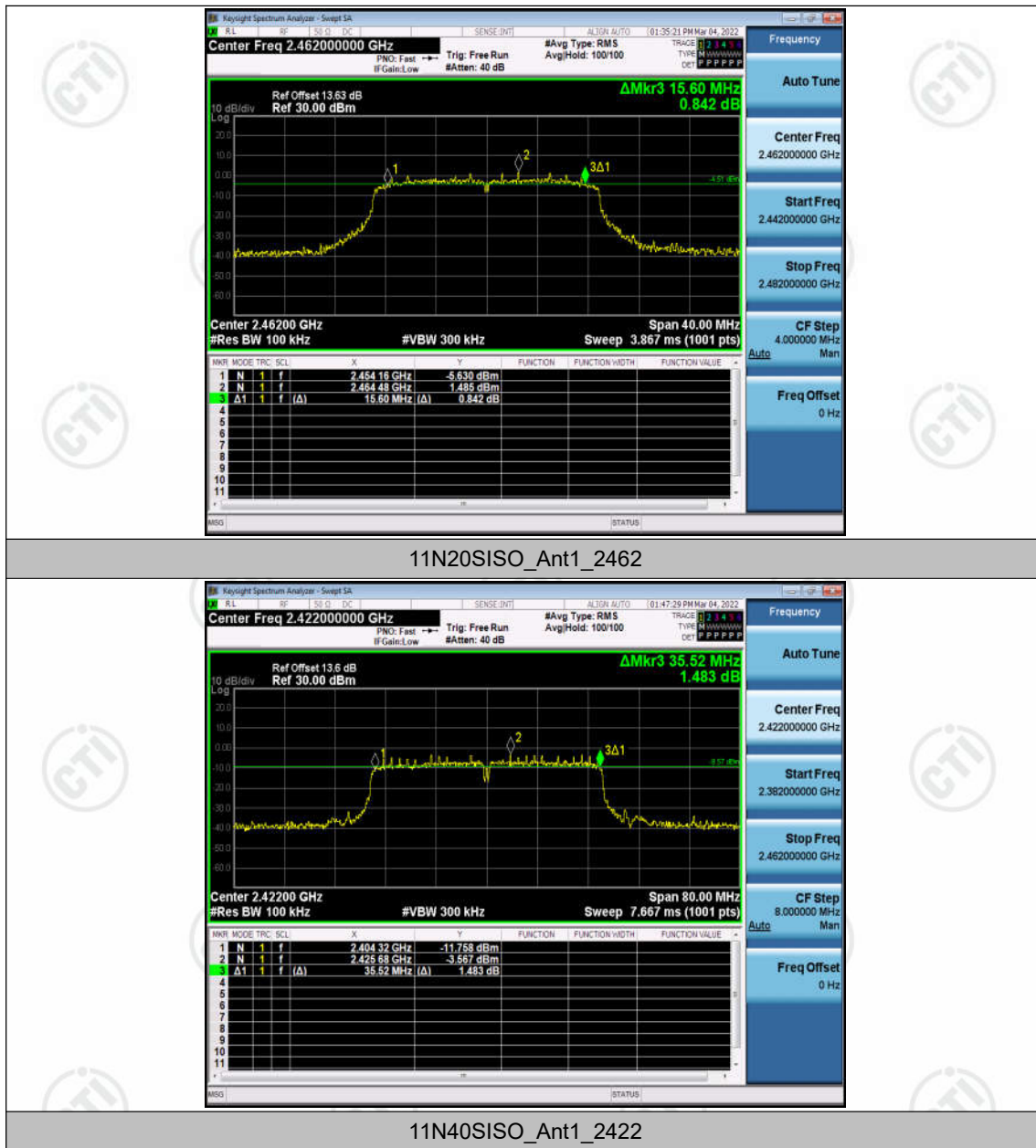


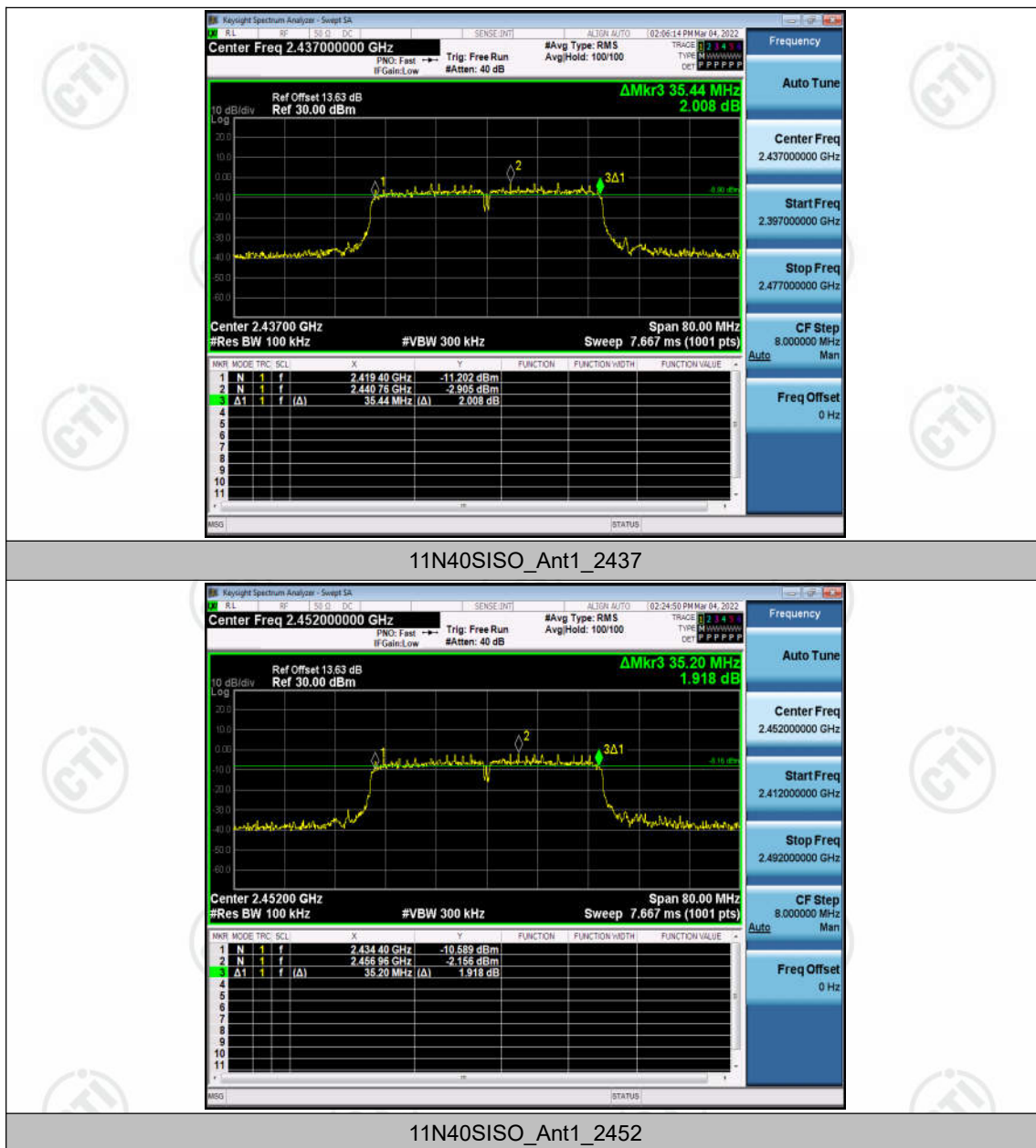
11G_Ant1_2437



11G_Ant1_2462





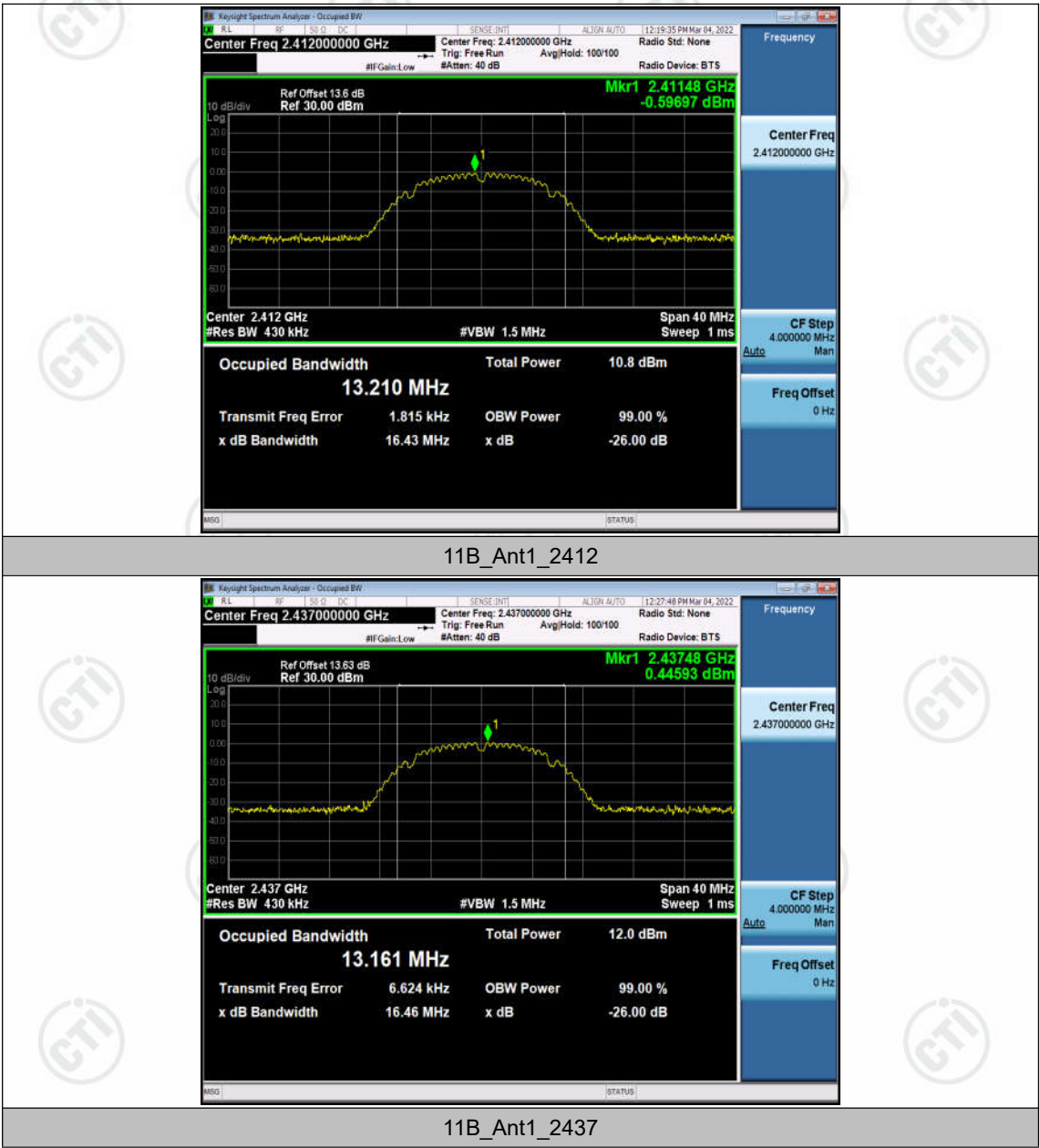


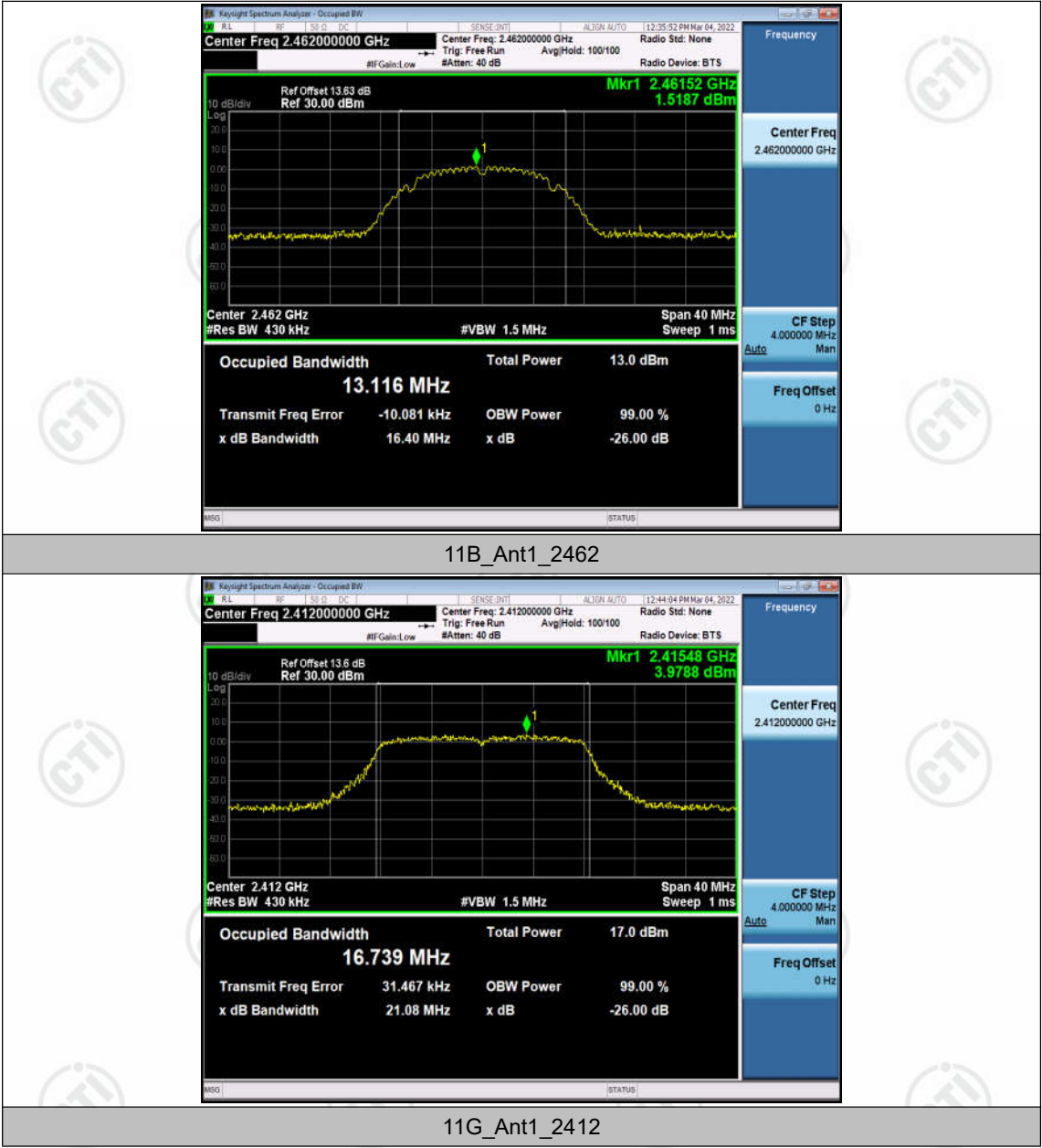
Appendix B: Occupied Channel Bandwidth

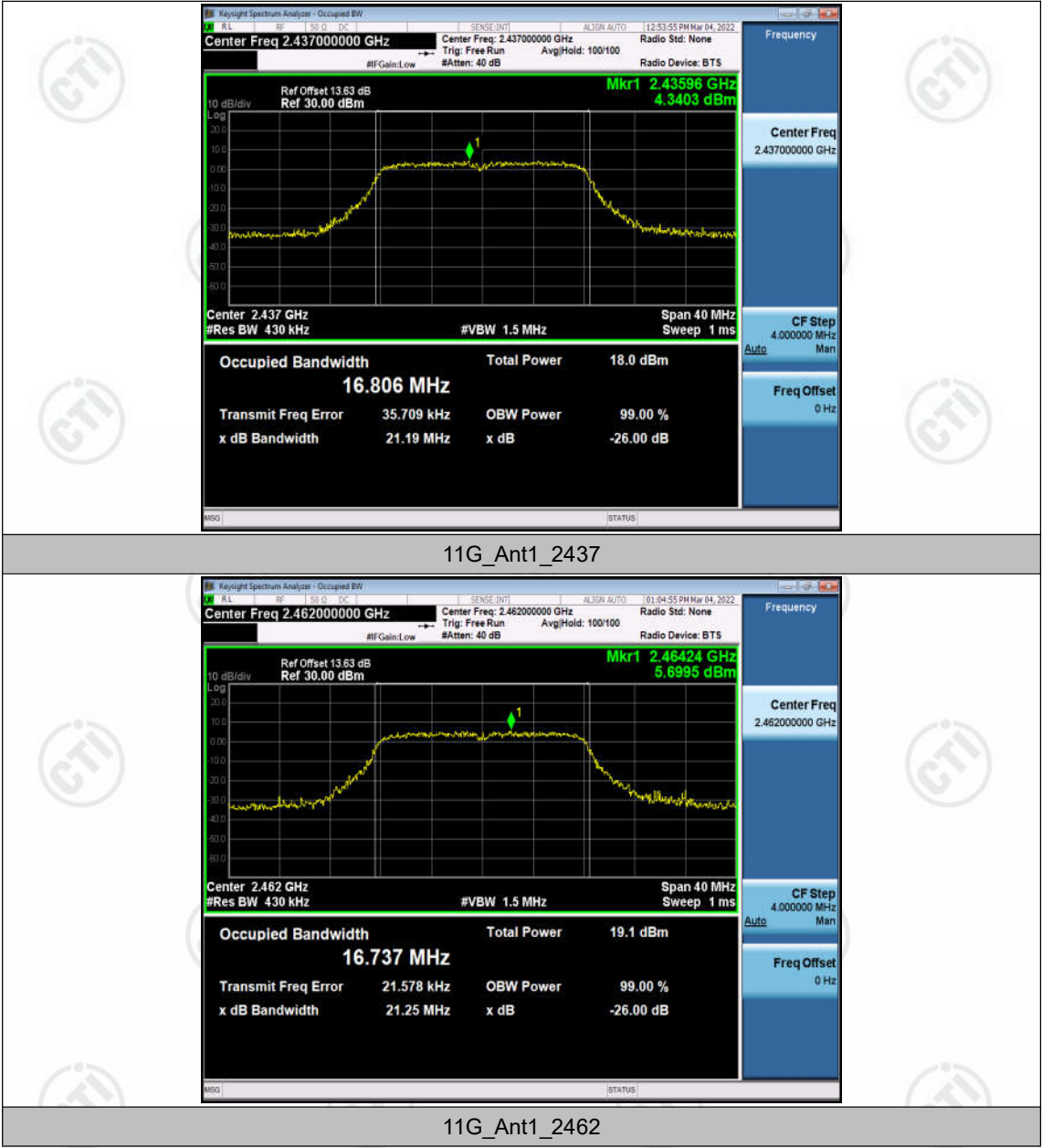
Test Result

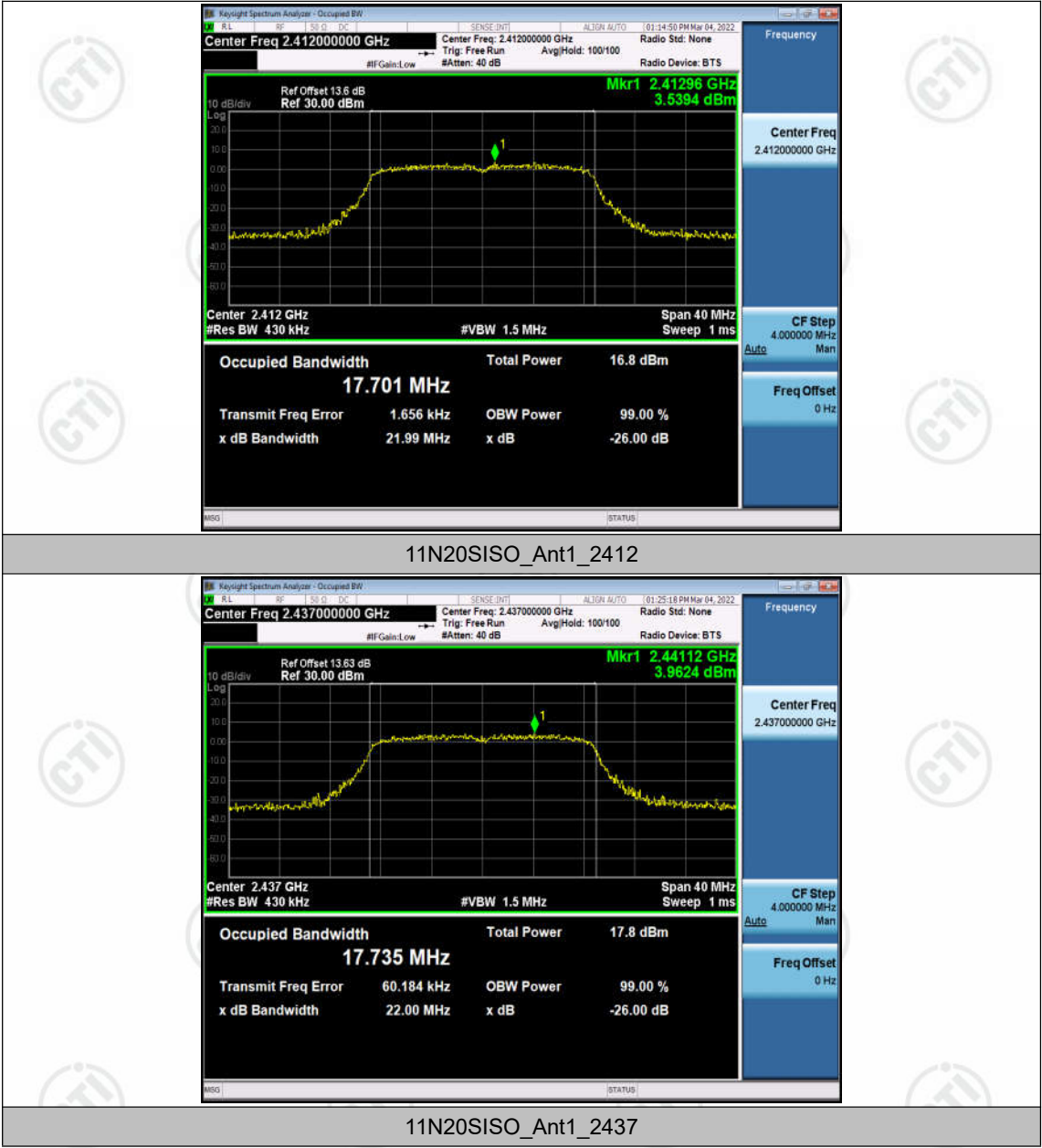
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.210	2405.397	2418.607	---	PASS
		2437	13.161	2430.426	2443.587	---	PASS
		2462	13.116	2455.432	2468.548	---	PASS
11G	Ant1	2412	16.739	2403.662	2420.401	---	PASS
		2437	16.806	2428.633	2445.439	---	PASS
		2462	16.737	2453.653	2470.390	---	PASS
11N20SISO	Ant1	2412	17.701	2403.151	2420.852	---	PASS
		2437	17.735	2428.193	2445.928	---	PASS
		2462	17.696	2453.162	2470.858	---	PASS
11N40SISO	Ant1	2422	36.087	2404.044	2440.131	---	PASS
		2437	36.111	2419.032	2455.143	---	PASS
		2452	36.019	2434.109	2470.128	---	PASS

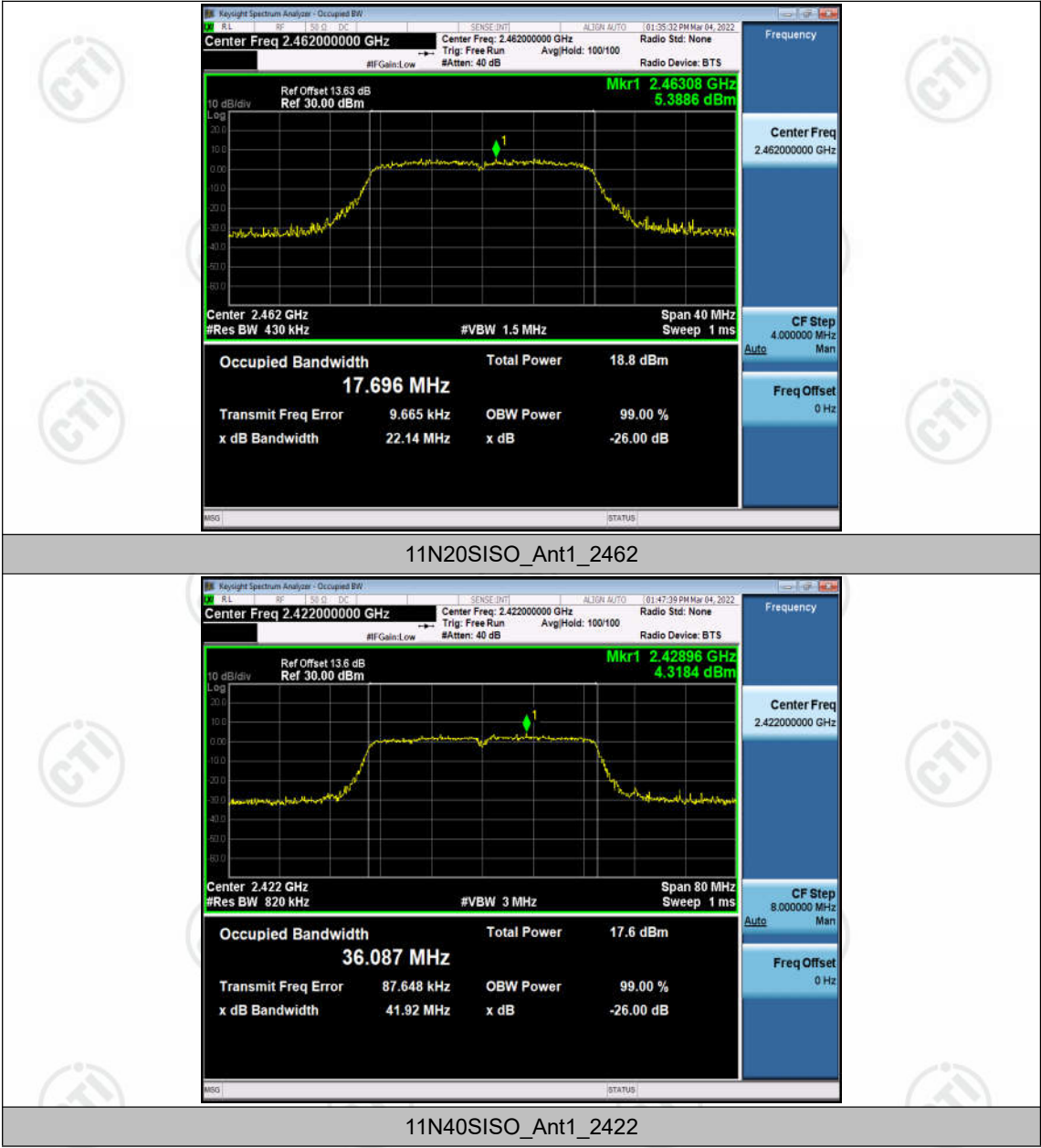
Test Graphs

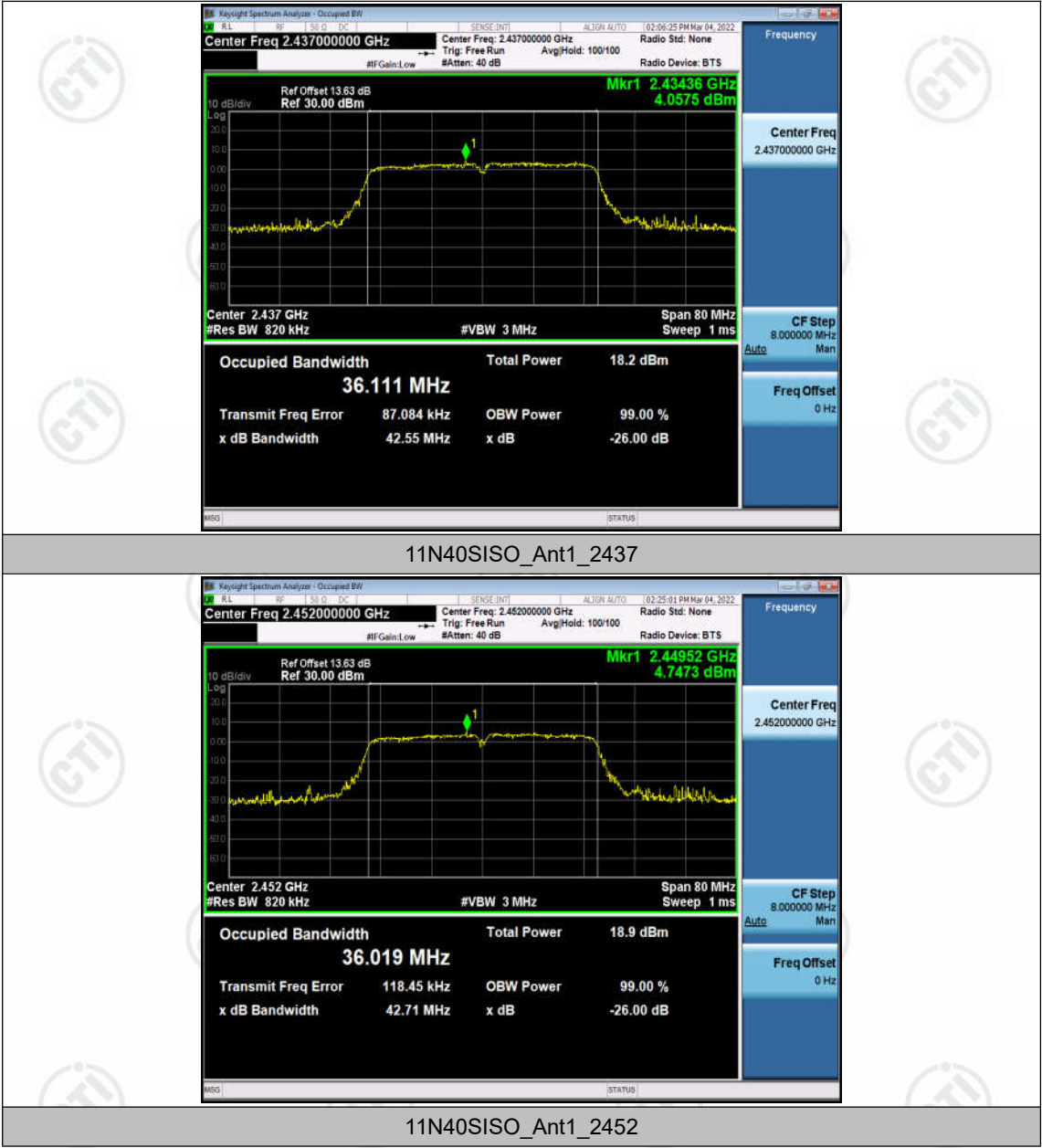












Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	7.63	<=30	PASS
		2437	8.84	<=30	PASS
		2462	9.97	<=30	PASS
11G	Ant1	2412	10.79	<=30	PASS
		2437	11.94	<=30	PASS
		2462	12.95	<=30	PASS
11N20SISO	Ant1	2412	10.70	<=30	PASS
		2437	11.71	<=30	PASS
		2462	12.70	<=30	PASS
11N40SISO	Ant1	2422	10.60	<=30	PASS
		2437	11.28	<=30	PASS
		2452	11.92	<=30	PASS

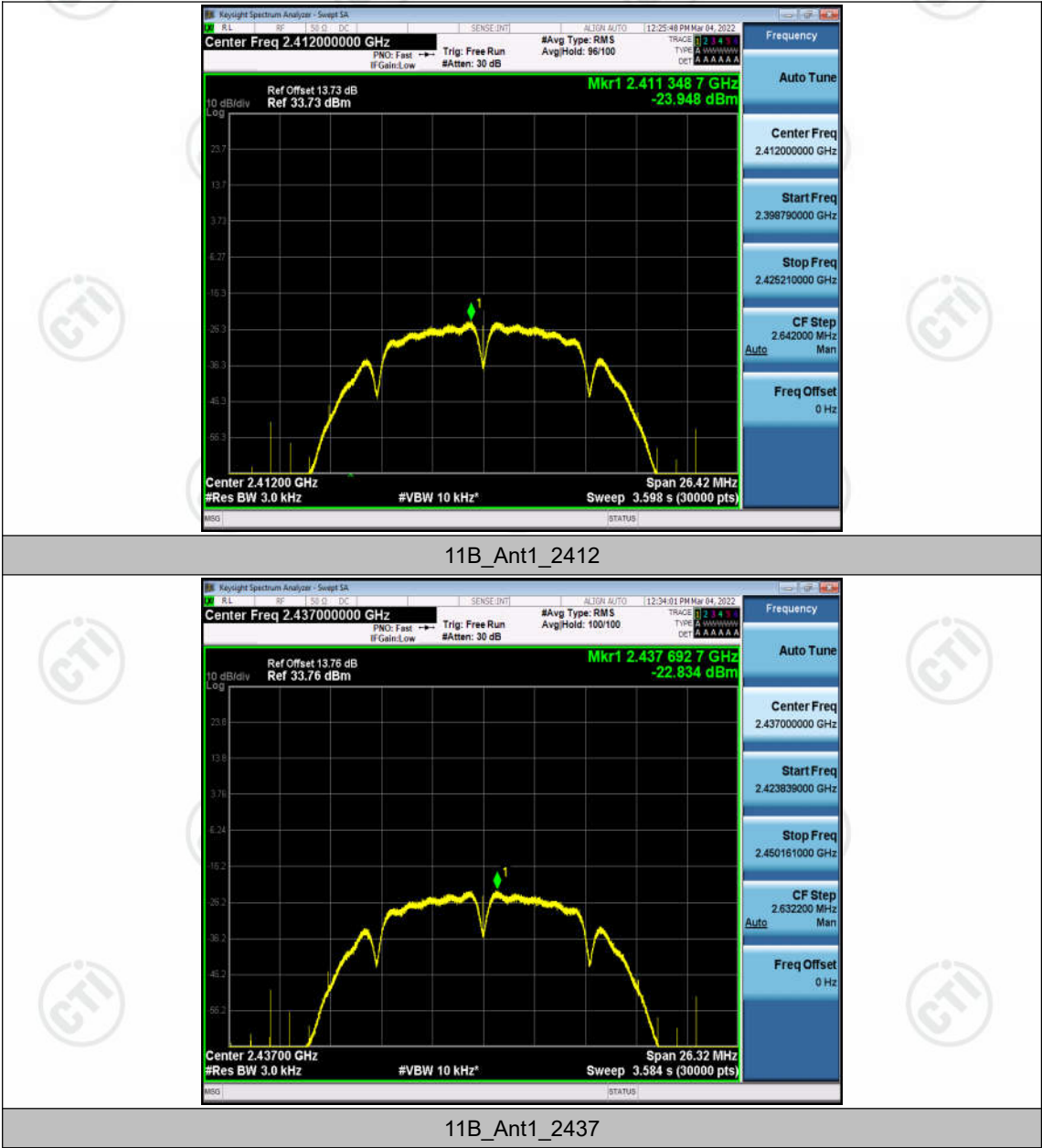
Note: The Duty Cycle Factor is compensated in the graph.

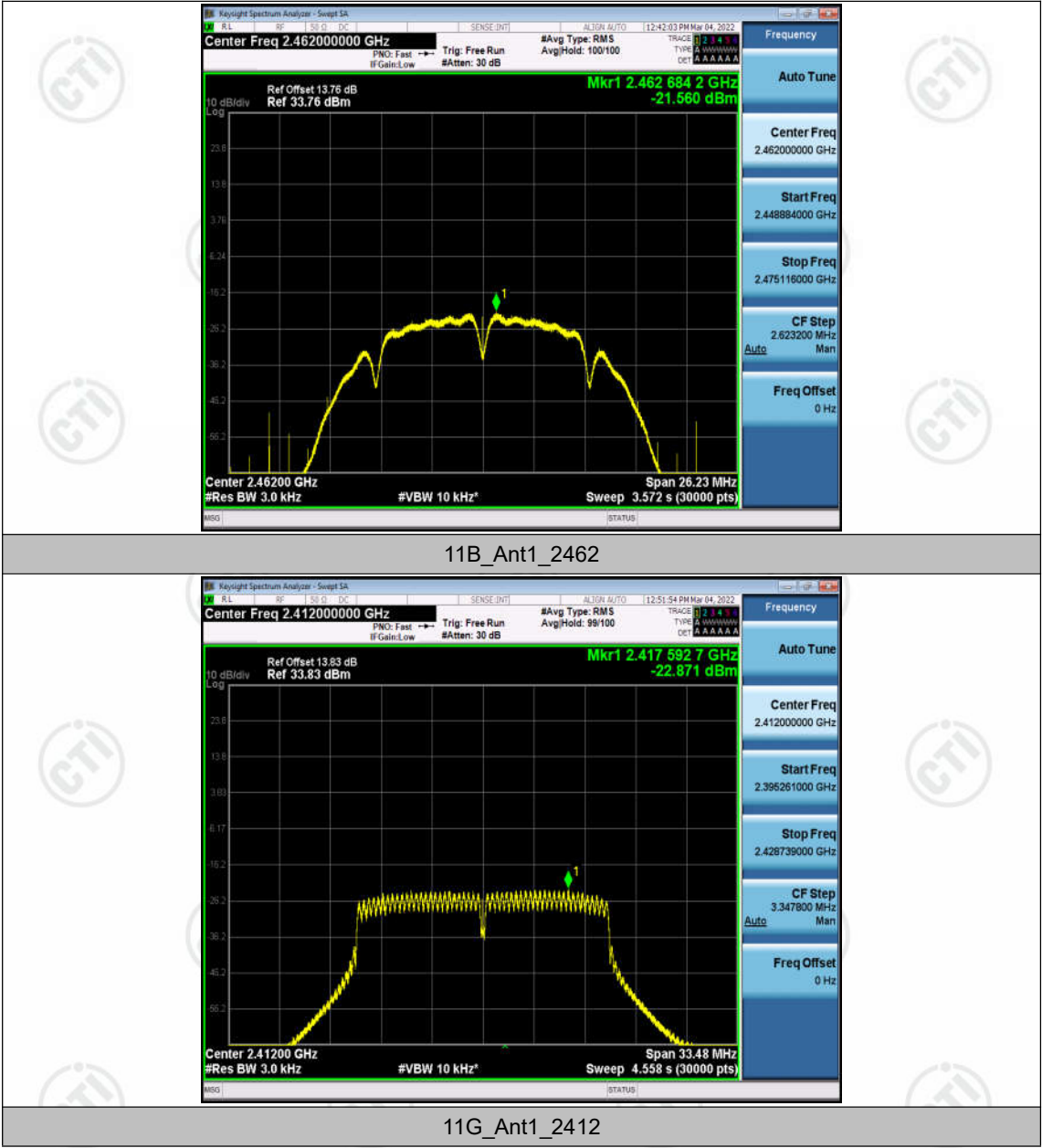
Appendix D: Maximum power spectral density

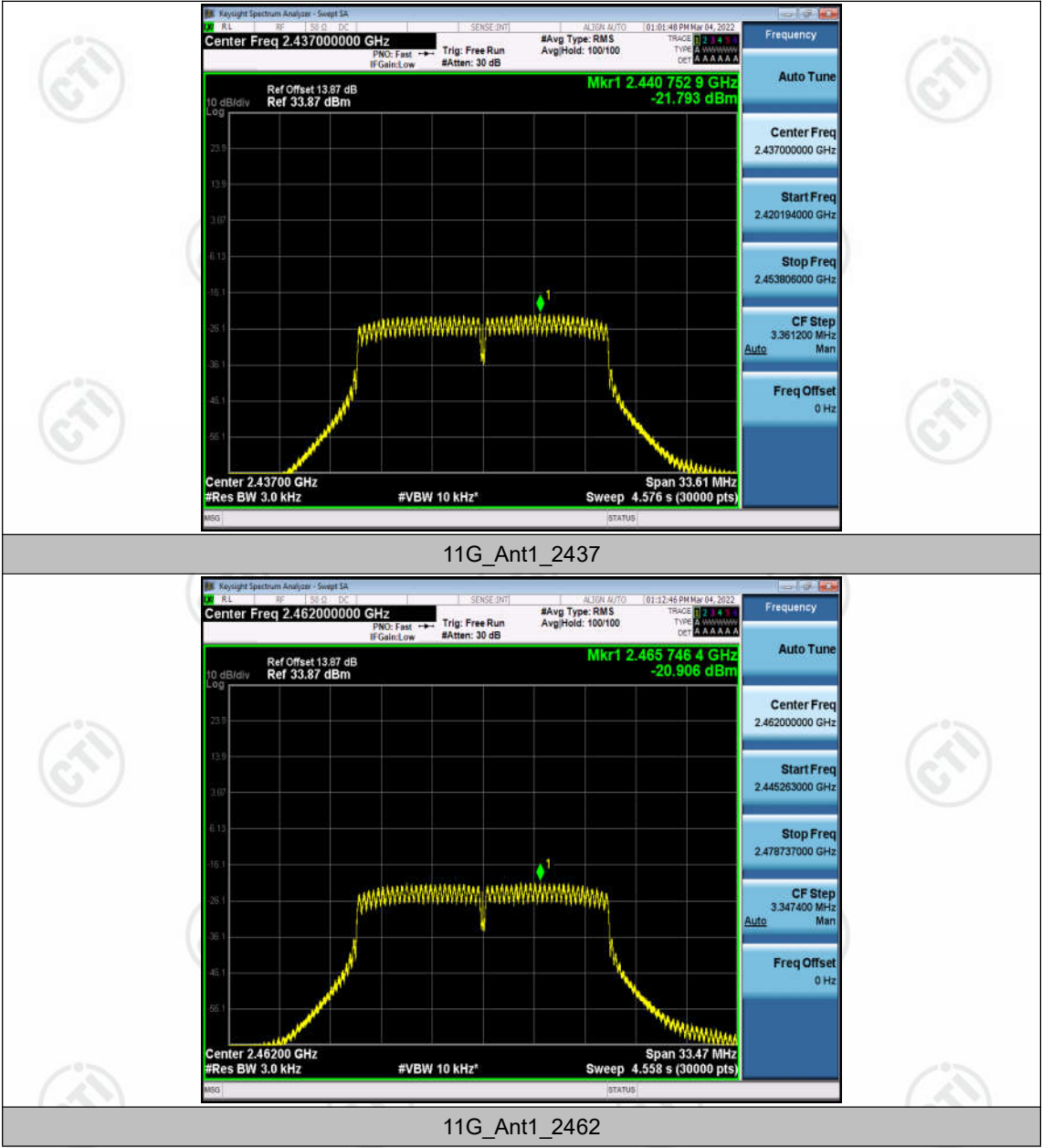
Test Result

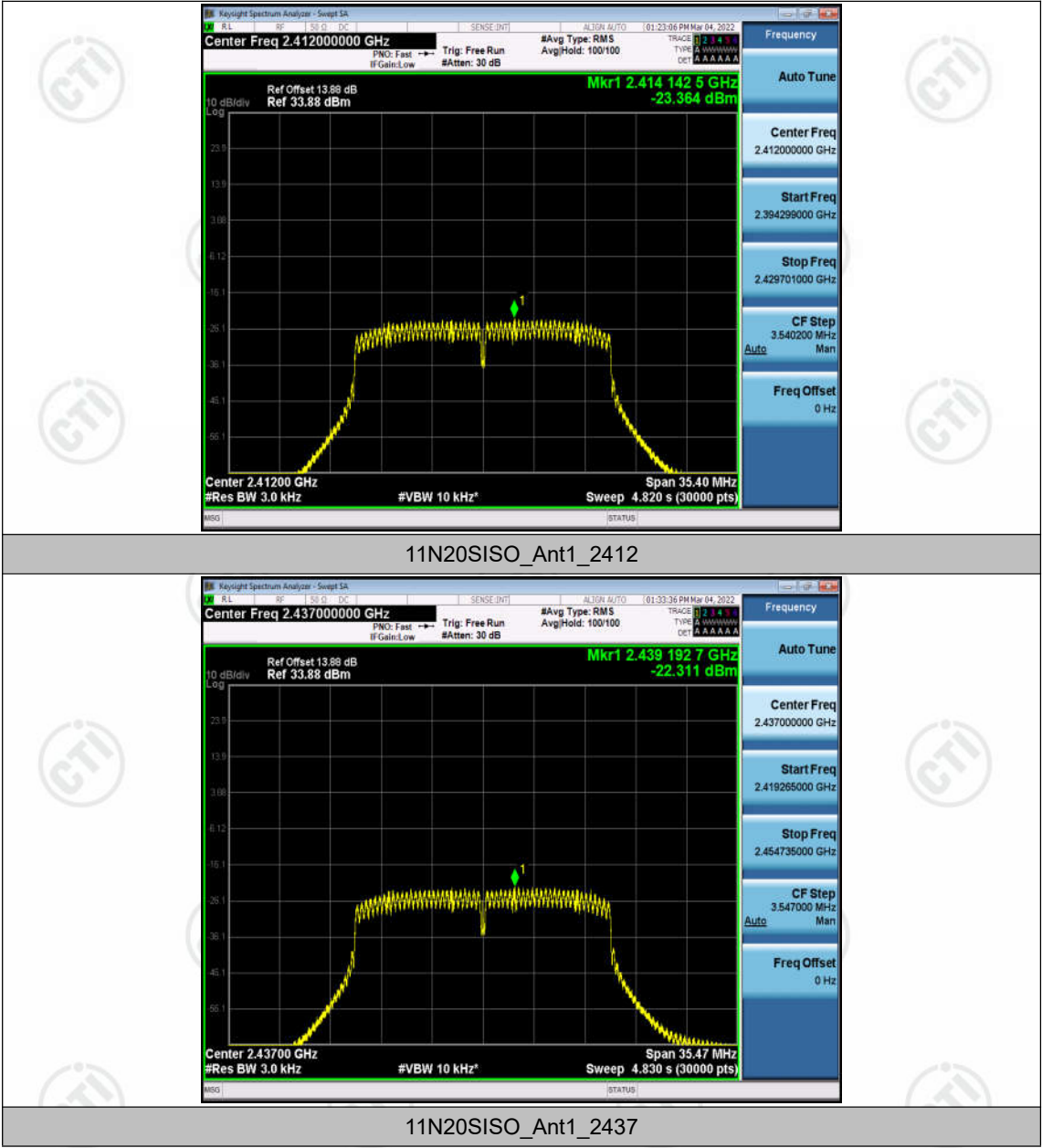
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-23.95	<=8	PASS
		2437	-22.83	<=8	PASS
		2462	-21.56	<=8	PASS
11G	Ant1	2412	-22.87	<=8	PASS
		2437	-21.79	<=8	PASS
		2462	-20.91	<=8	PASS
11N20SISO	Ant1	2412	-23.36	<=8	PASS
		2437	-22.31	<=8	PASS
		2462	-21.38	<=8	PASS
11N40SISO	Ant1	2422	-23.68	<=8	PASS
		2437	-23.44	<=8	PASS
		2452	-22.92	<=8	PASS

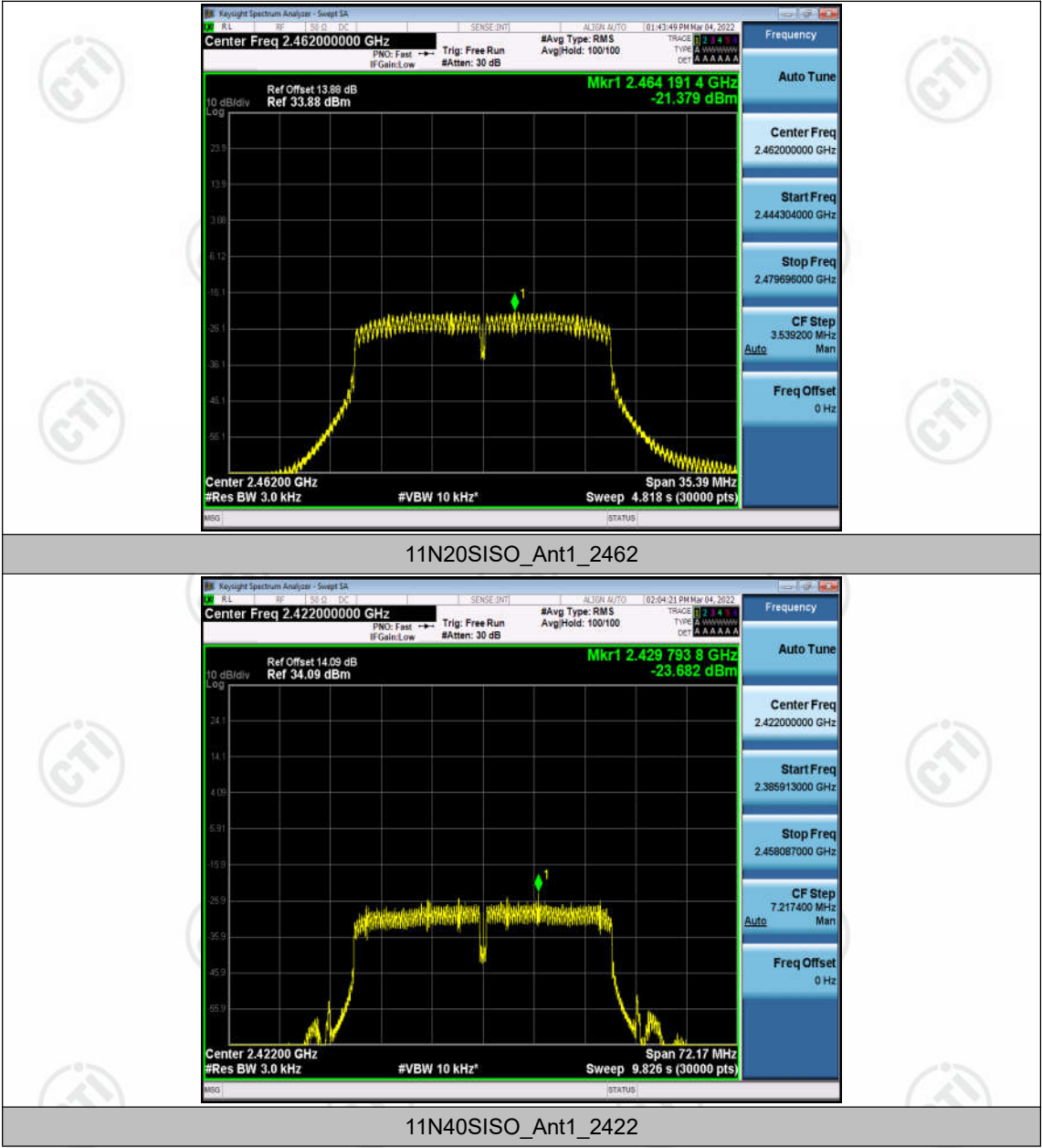
Test Graphs

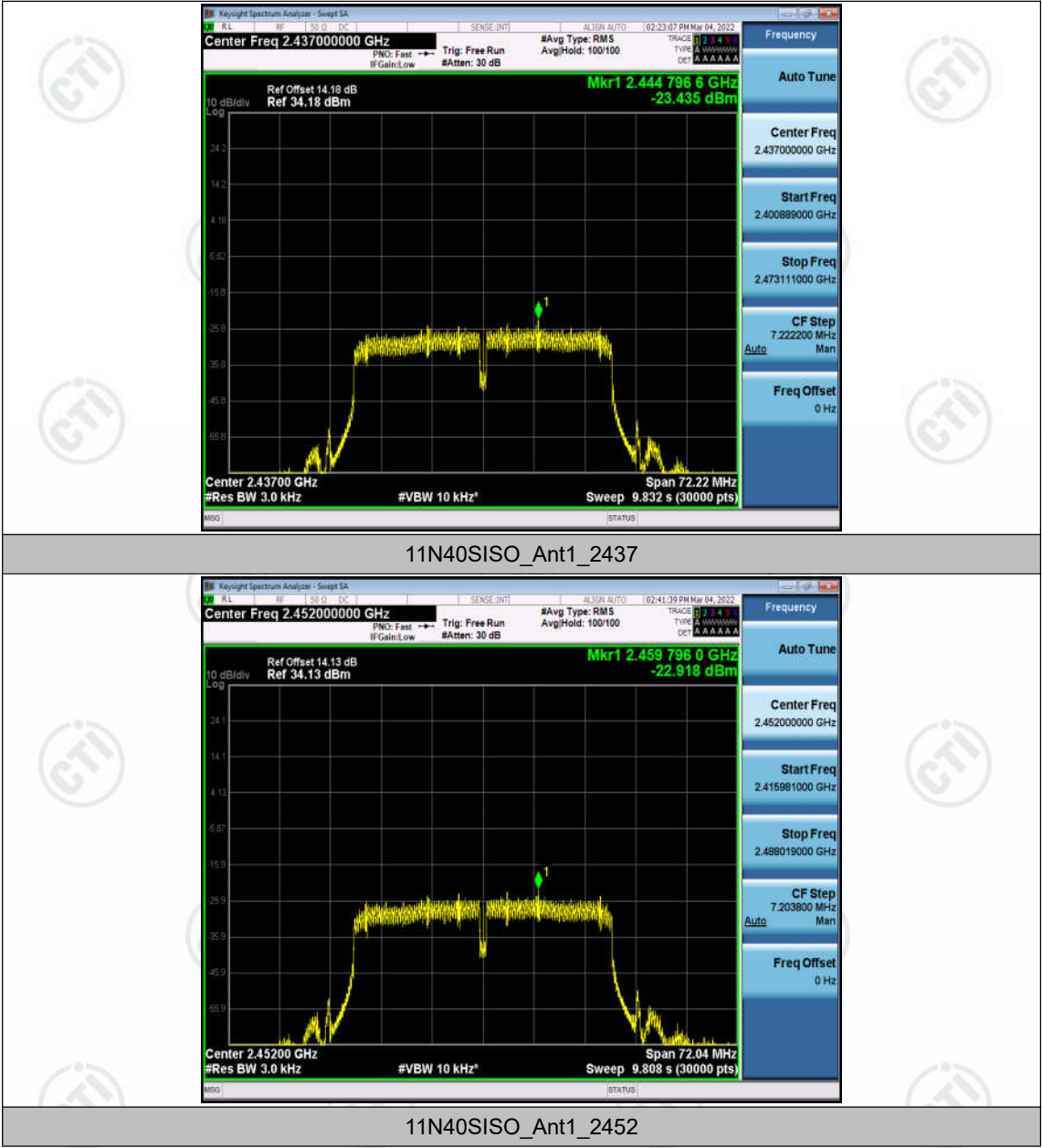










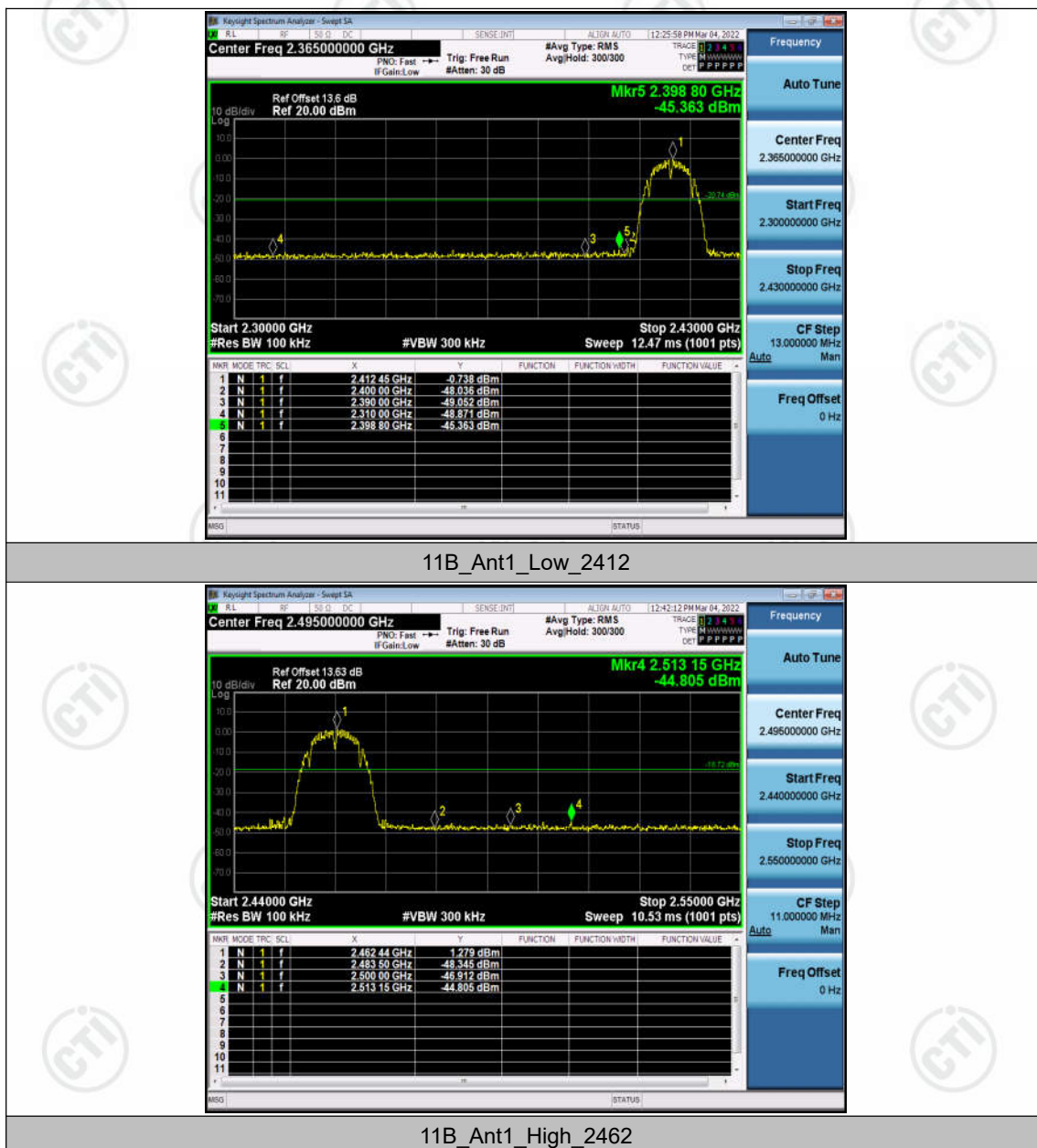


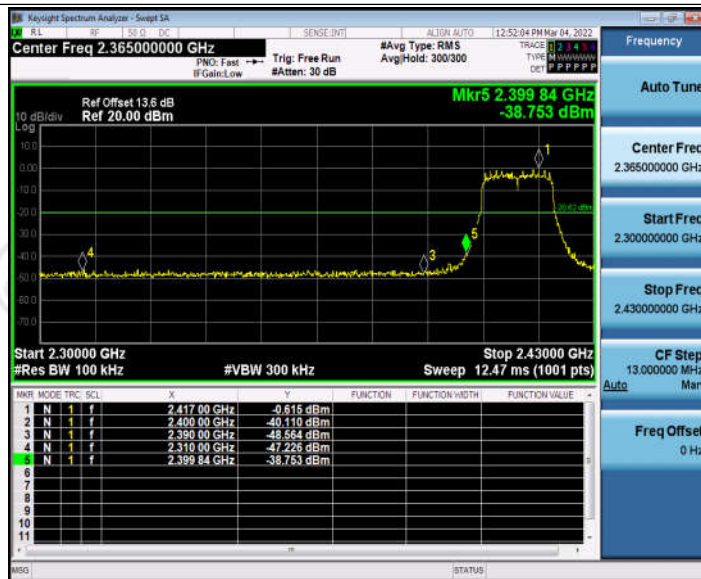
Appendix E: Band edge measurements

Test Result

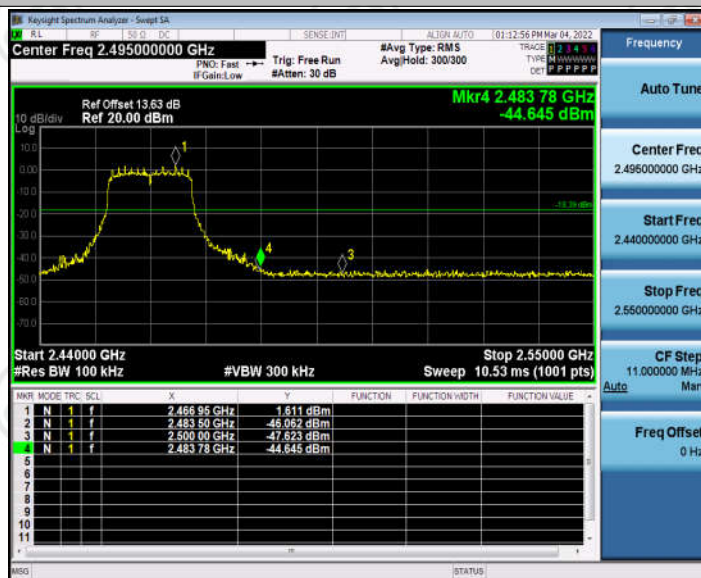
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.74	-45.36	<=-20.74	PASS
		High	2462	1.28	-44.81	<=-18.72	PASS
11G	Ant1	Low	2412	-0.62	-38.75	<=-20.62	PASS
		High	2462	1.61	-44.65	<=-18.39	PASS
11N20SISO	Ant1	Low	2412	-0.53	-37.06	<=-20.53	PASS
		High	2462	1.61	-42.98	<=-18.39	PASS
11N40SISO	Ant1	Low	2422	-3.42	-36.84	<=-23.42	PASS
		High	2452	-2.21	-36.15	<=-22.21	PASS

Test Graphs

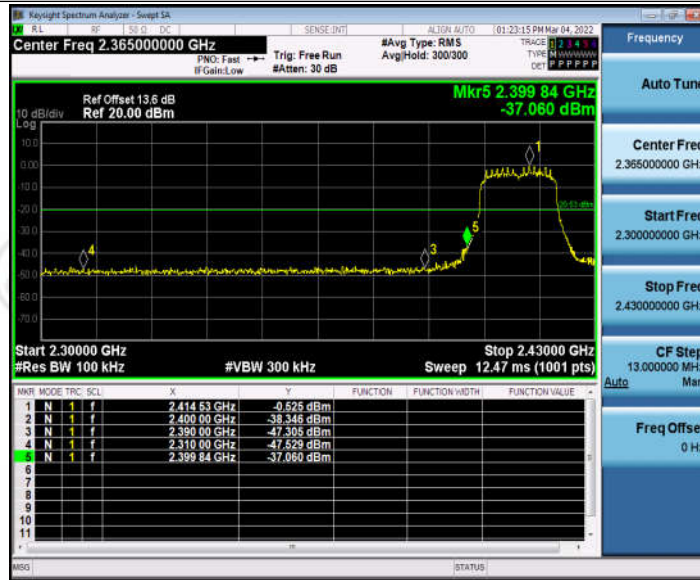




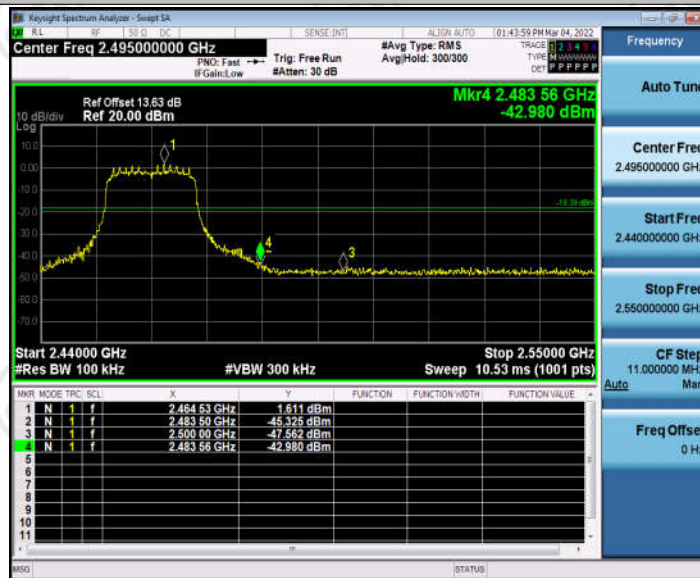
11G_Ant1_Low_2412



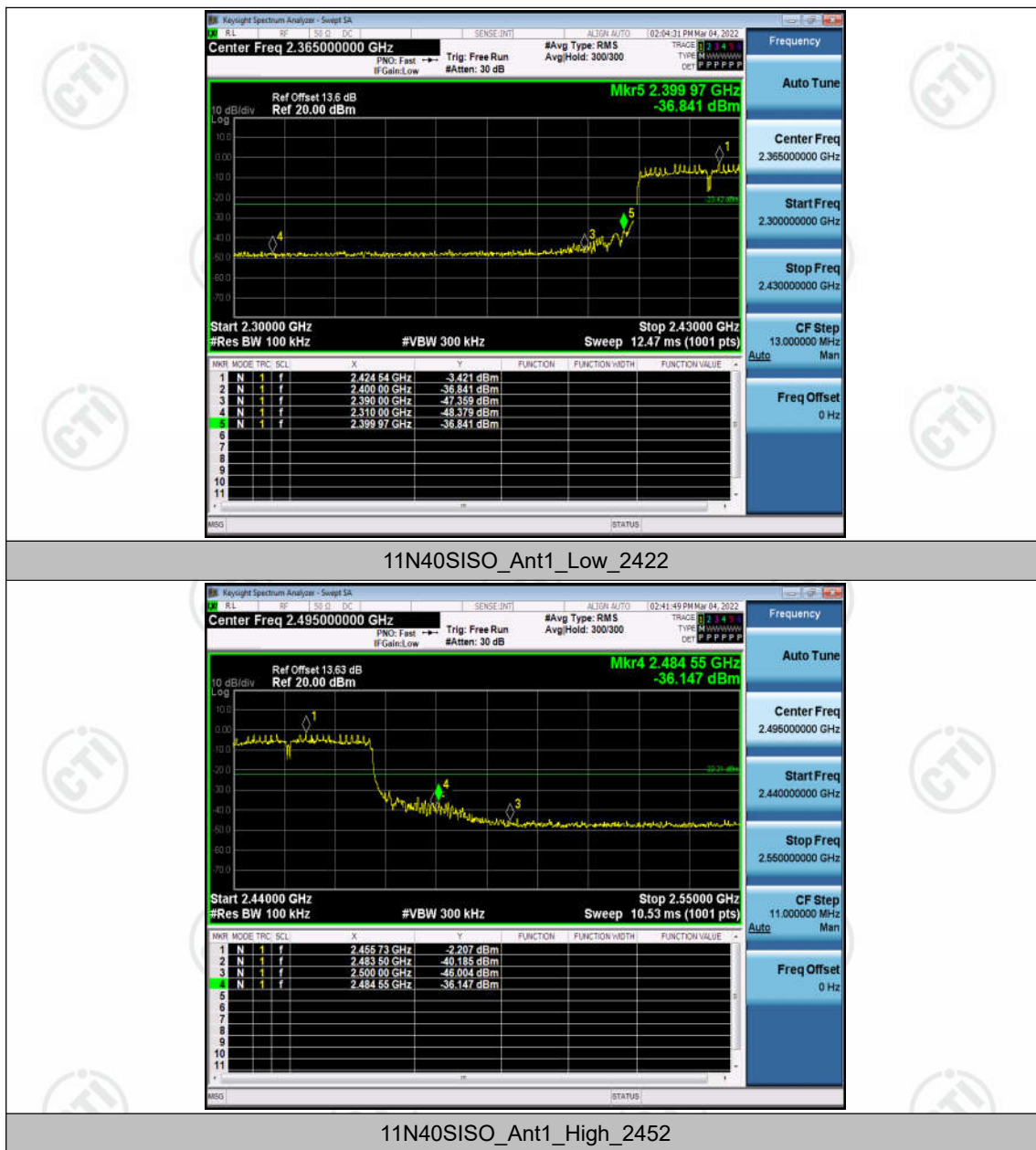
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



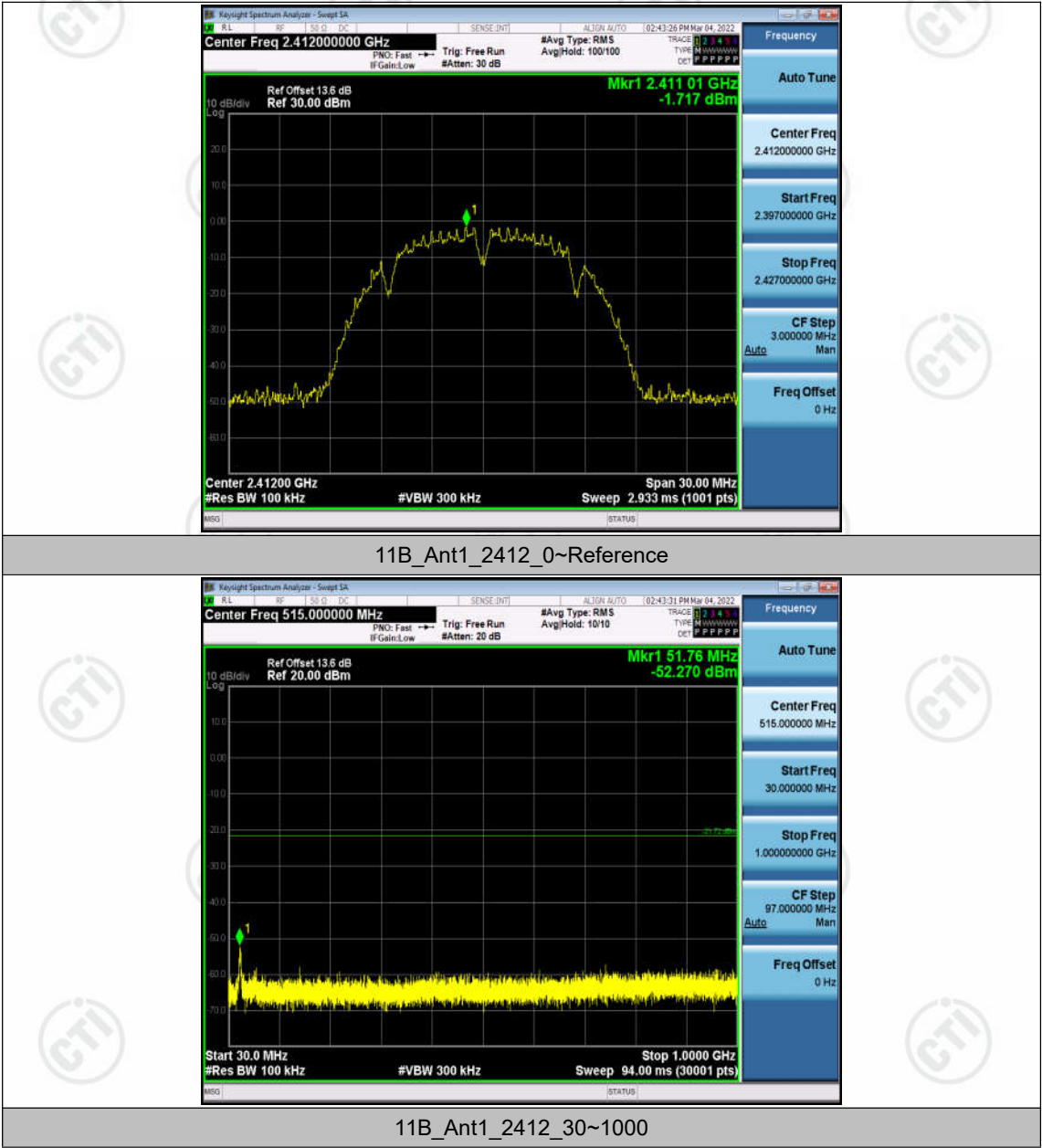
Appendix F: Conducted Spurious Emission

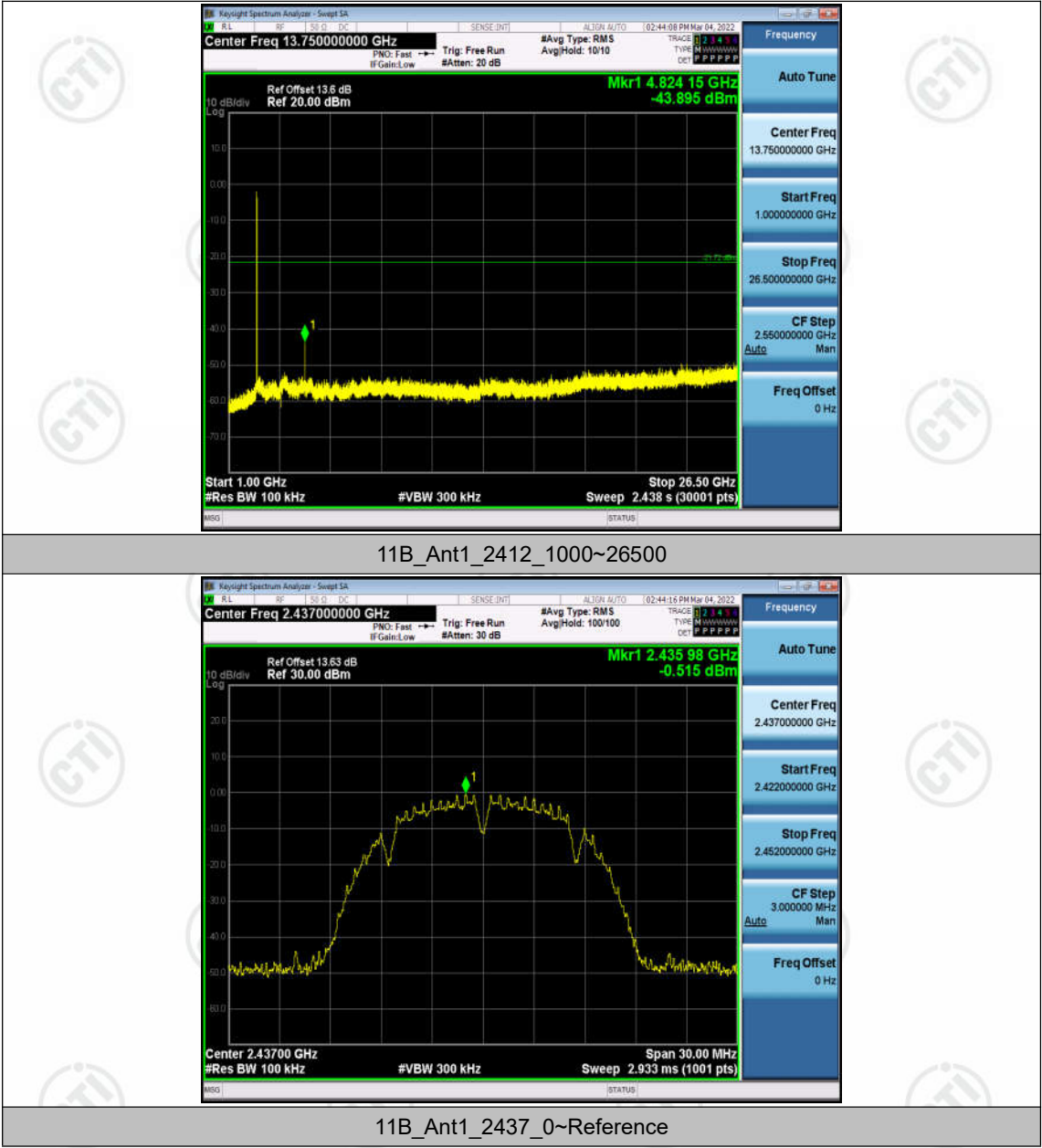
Test Result

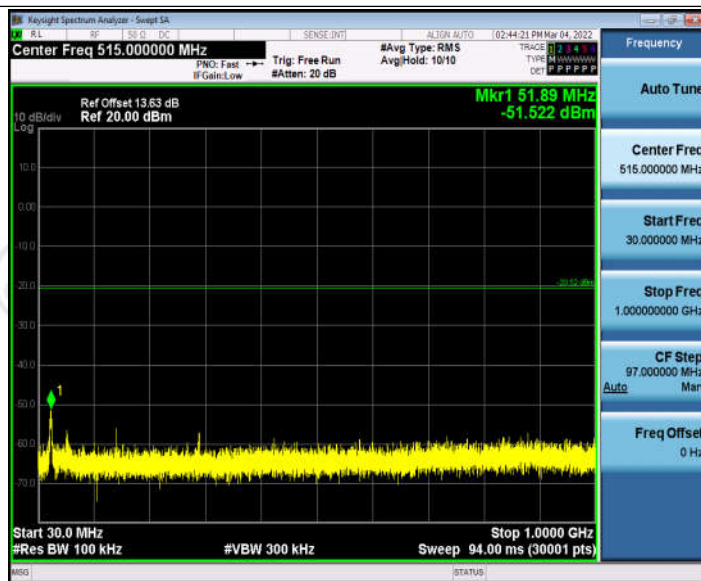
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-1.72	-1.72	---	PASS
			30~1000	30~1000	-52.27	<=-21.717	PASS
			1000~26500	1000~26500	-43.895	<=-21.717	PASS
		2437	Reference	-0.52	-0.52	---	PASS
			30~1000	30~1000	-51.522	<=-20.515	PASS
			1000~26500	1000~26500	-43.821	<=-20.515	PASS
		2462	Reference	1.10	1.10	---	PASS
			30~1000	30~1000	-52.457	<=-18.902	PASS
			1000~26500	1000~26500	-42.726	<=-18.902	PASS
11G	Ant1	2412	Reference	-0.37	-0.37	---	PASS
			30~1000	30~1000	-50.571	<=-20.371	PASS
			1000~26500	1000~26500	-48.05	<=-20.371	PASS
		2437	Reference	-0.12	-0.12	---	PASS
			30~1000	30~1000	-51.672	<=-20.119	PASS
			1000~26500	1000~26500	-49.141	<=-20.119	PASS
		2462	Reference	1.59	1.59	---	PASS
			30~1000	30~1000	-51.833	<=-18.409	PASS
			1000~26500	1000~26500	-47.625	<=-18.409	PASS
11N20SISO	Ant1	2412	Reference	-1.03	-1.03	---	PASS
			30~1000	30~1000	-52.384	<=-21.033	PASS
			1000~26500	1000~26500	-47.276	<=-21.033	PASS
		2437	Reference	-0.11	-0.11	---	PASS
			30~1000	30~1000	-50.491	<=-20.106	PASS
			1000~26500	1000~26500	-48.912	<=-20.106	PASS
		2462	Reference	1.55	1.55	---	PASS
			30~1000	30~1000	-50.854	<=-18.455	PASS
			1000~26500	1000~26500	-47.663	<=-18.455	PASS
11N40SISO	Ant1	2422	Reference	-3.63	-3.63	---	PASS
			30~1000	30~1000	-51.4	<=-23.627	PASS
			1000~26500	1000~26500	-49.595	<=-23.627	PASS
		2437	Reference	-2.82	-2.82	---	PASS
			30~1000	30~1000	-52.928	<=-22.819	PASS
			1000~26500	1000~26500	-48.922	<=-22.819	PASS
		2452	Reference	-2.15	-2.15	---	PASS
			30~1000	30~1000	-53.711	<=-22.147	PASS

			1000~26500	1000~26500	-49.458	<=-22.147	PASS
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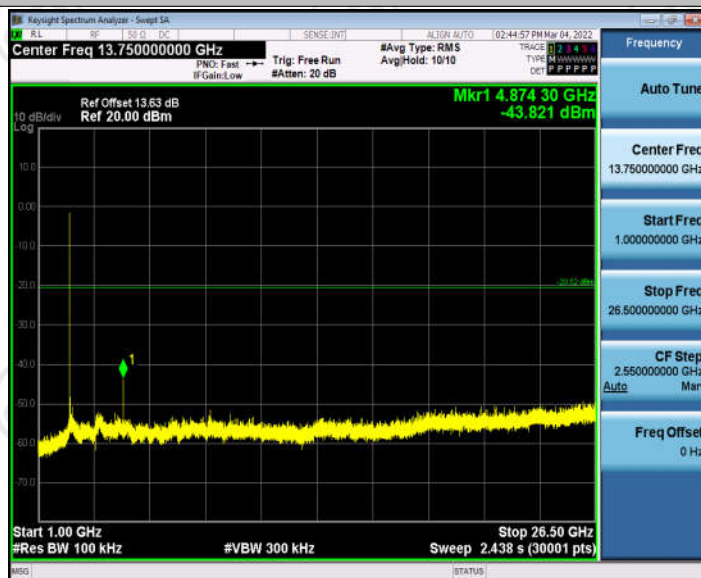
Test Graphs







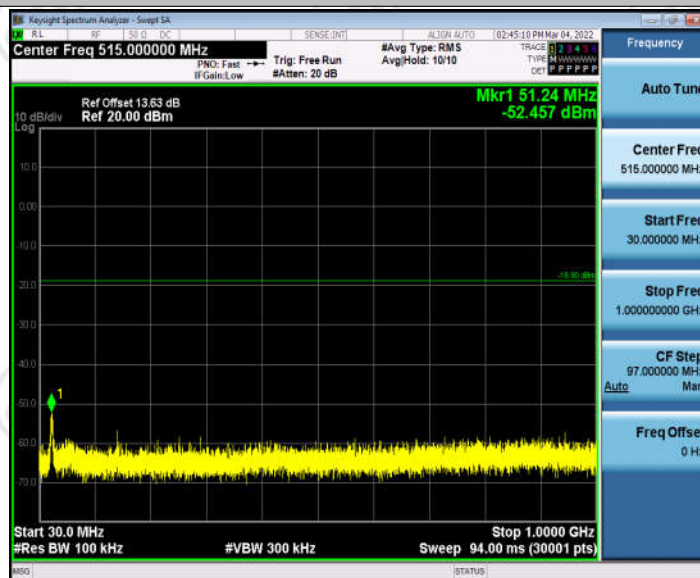
11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



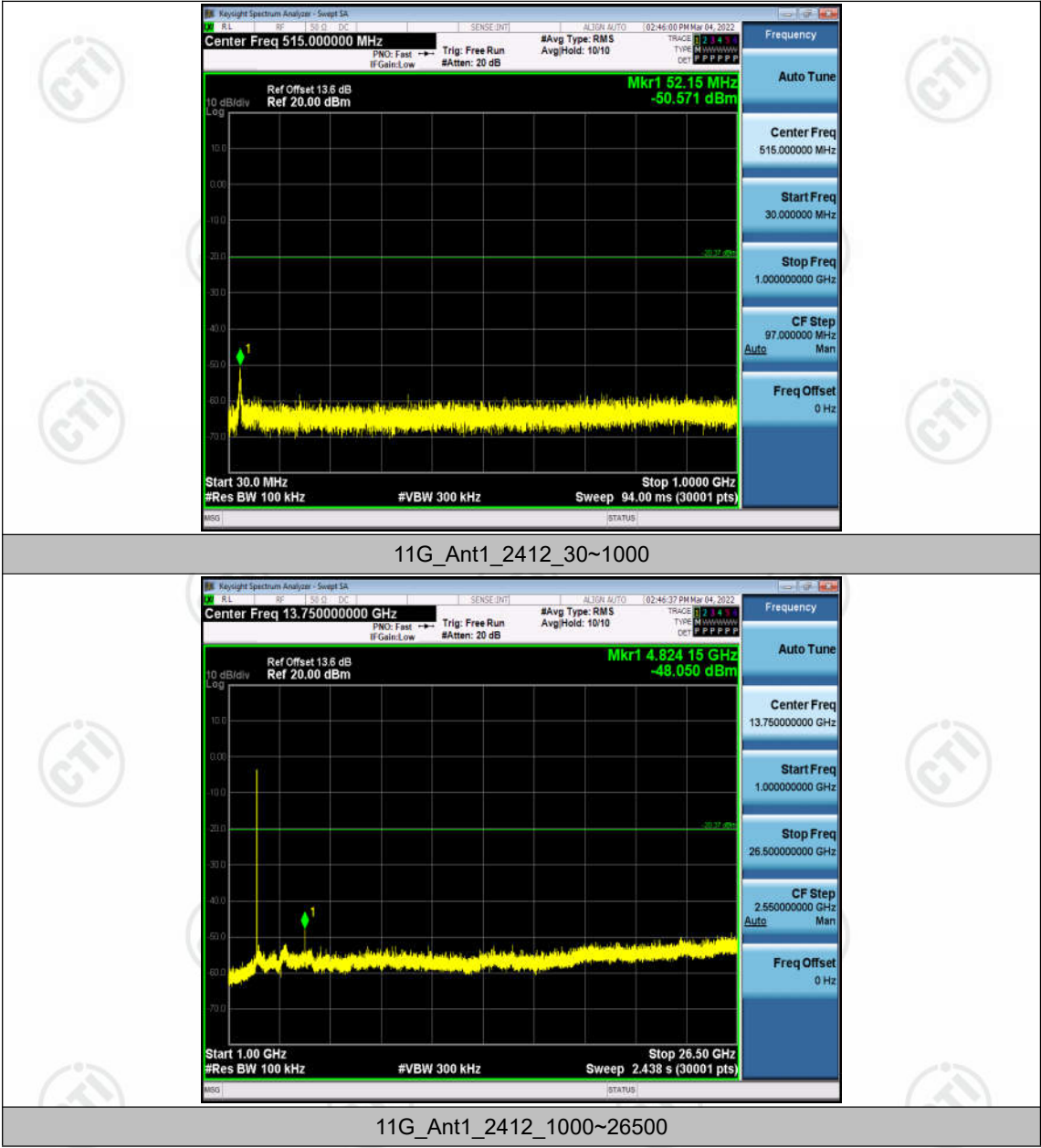
11B_Ant1_2462_30~1000

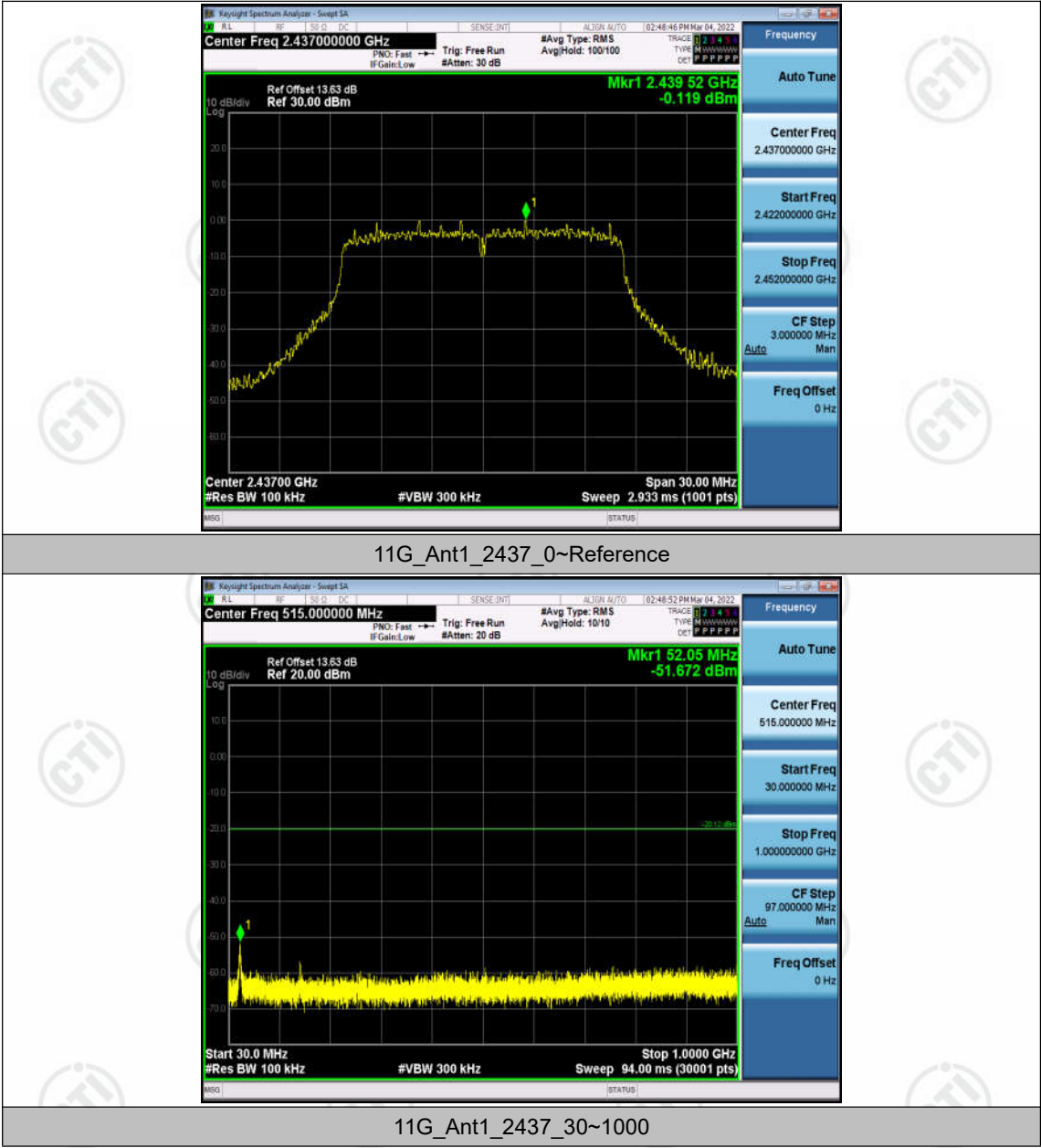


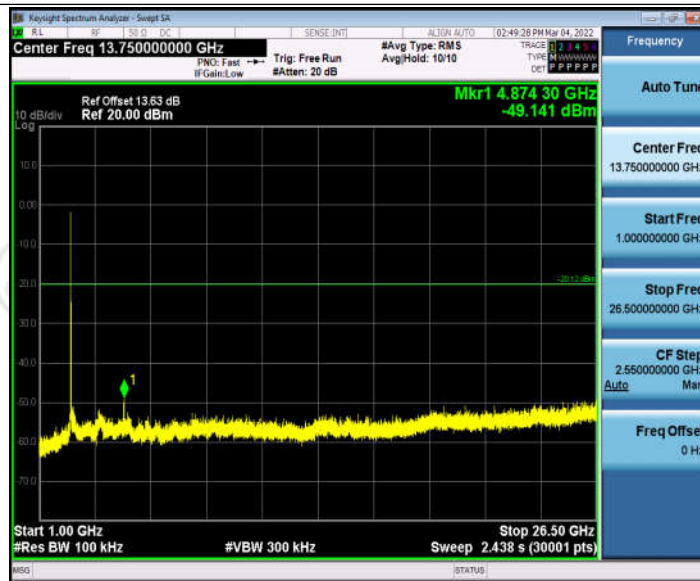
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



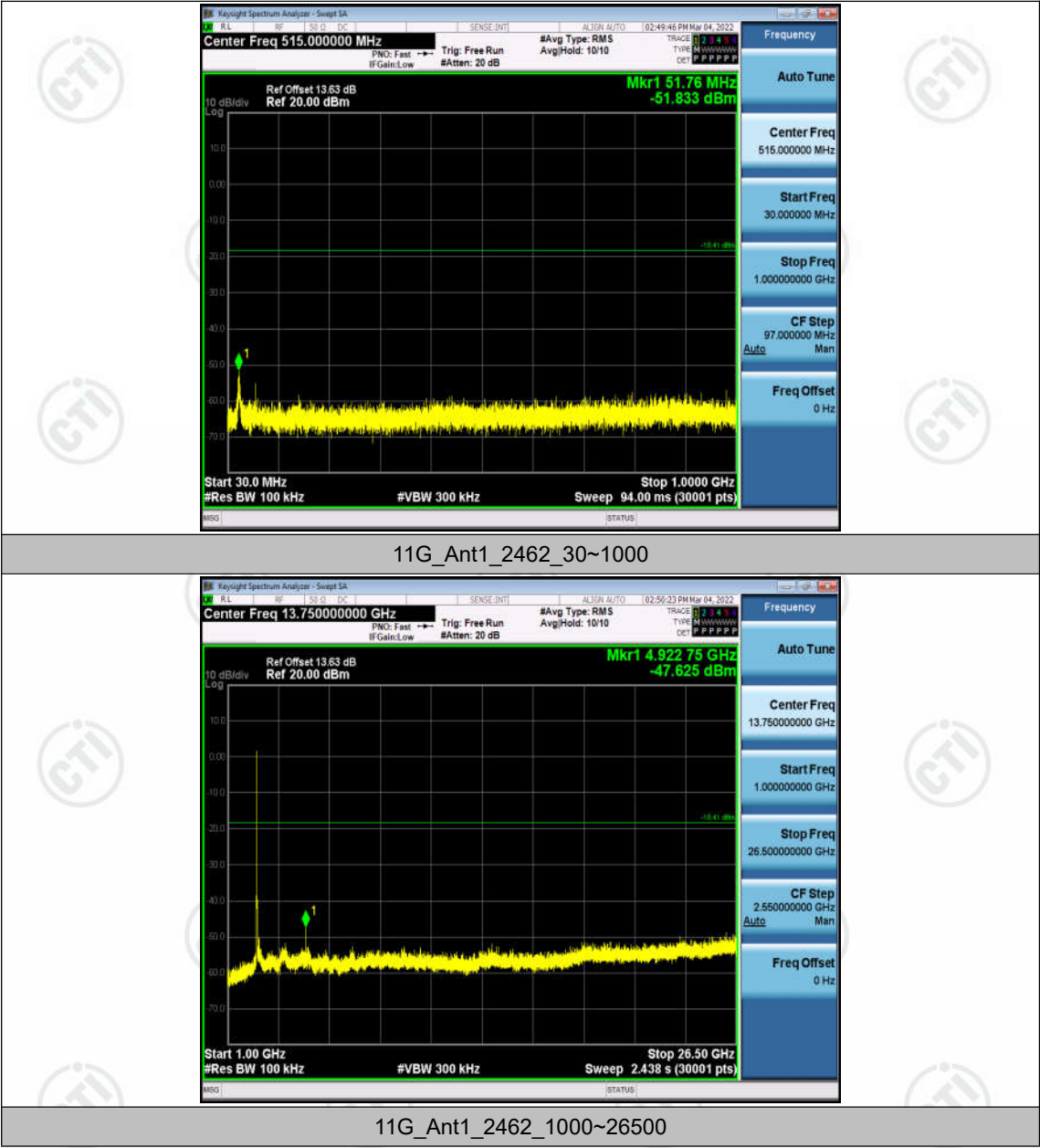


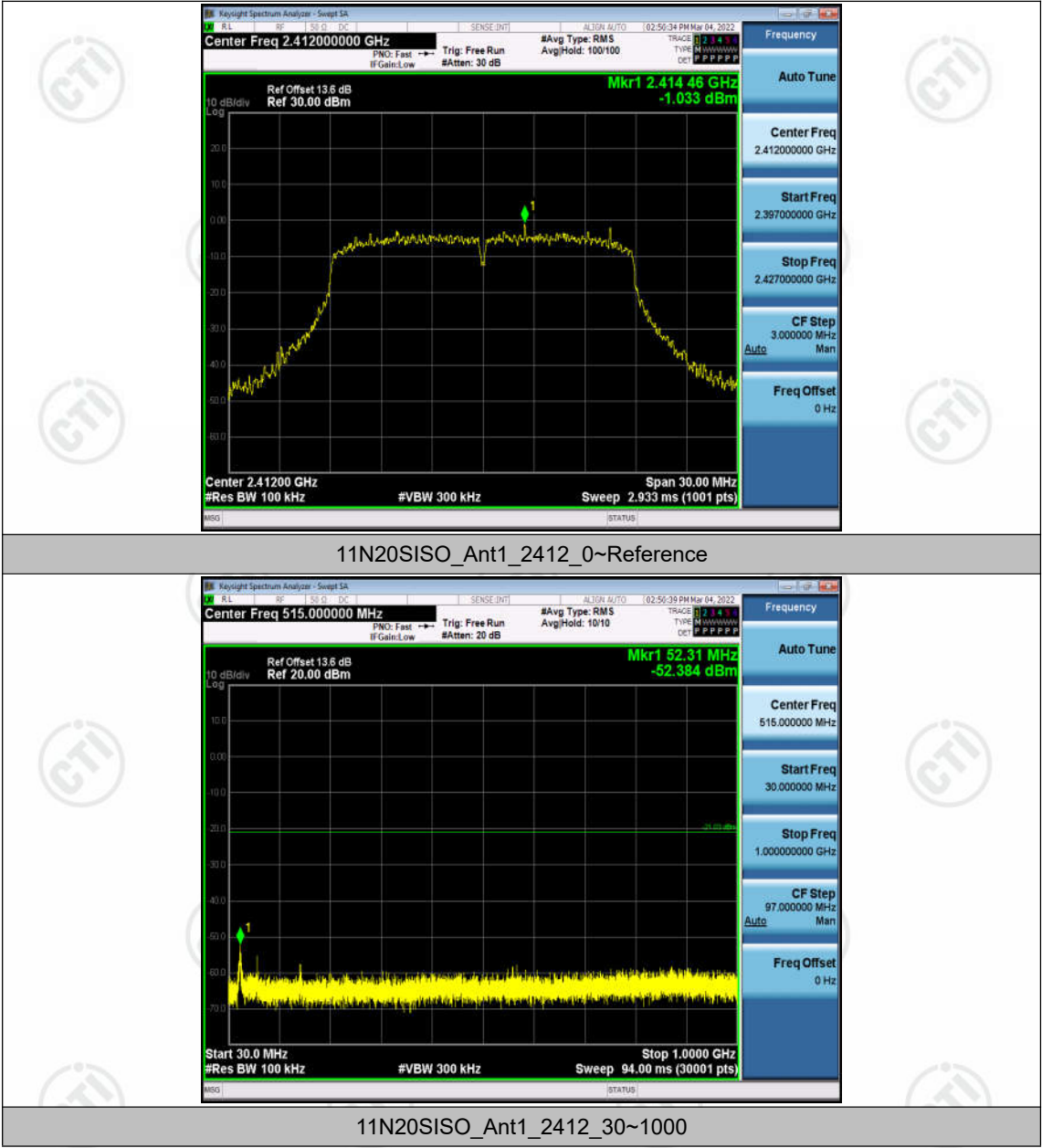


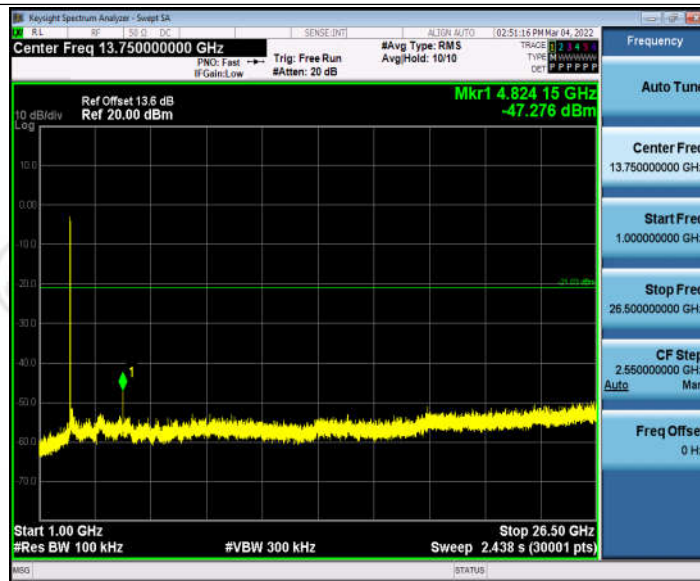
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



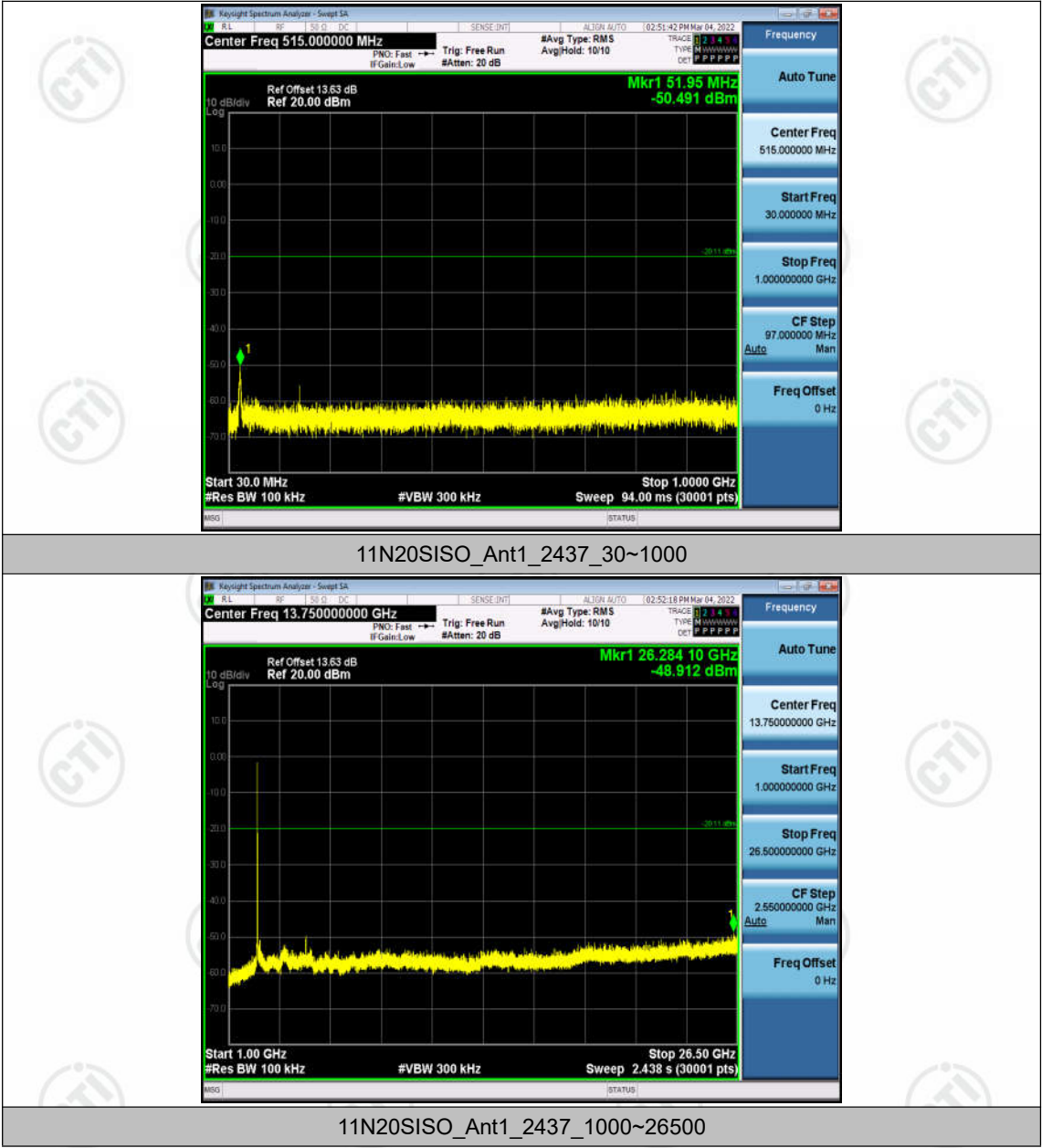


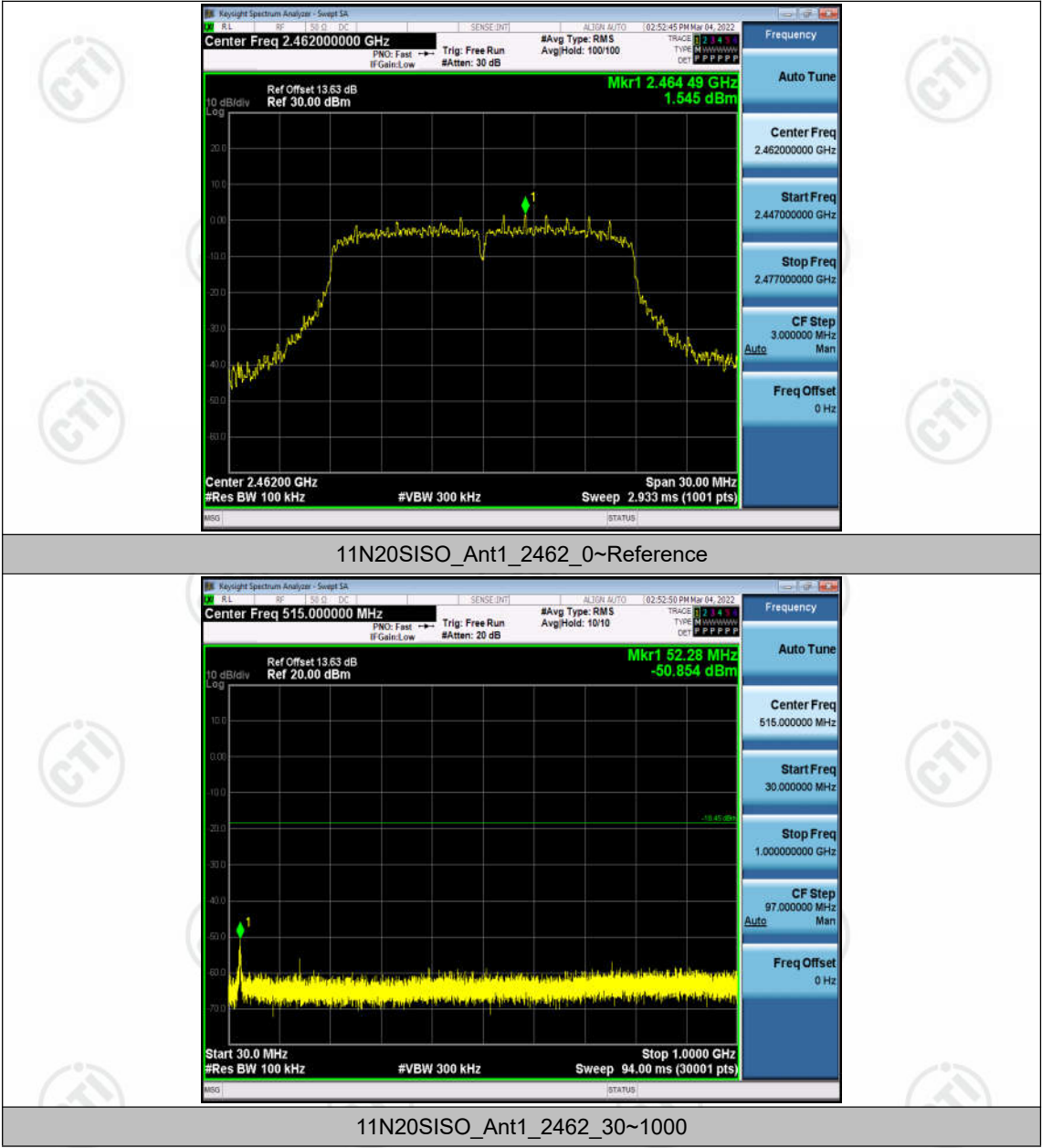


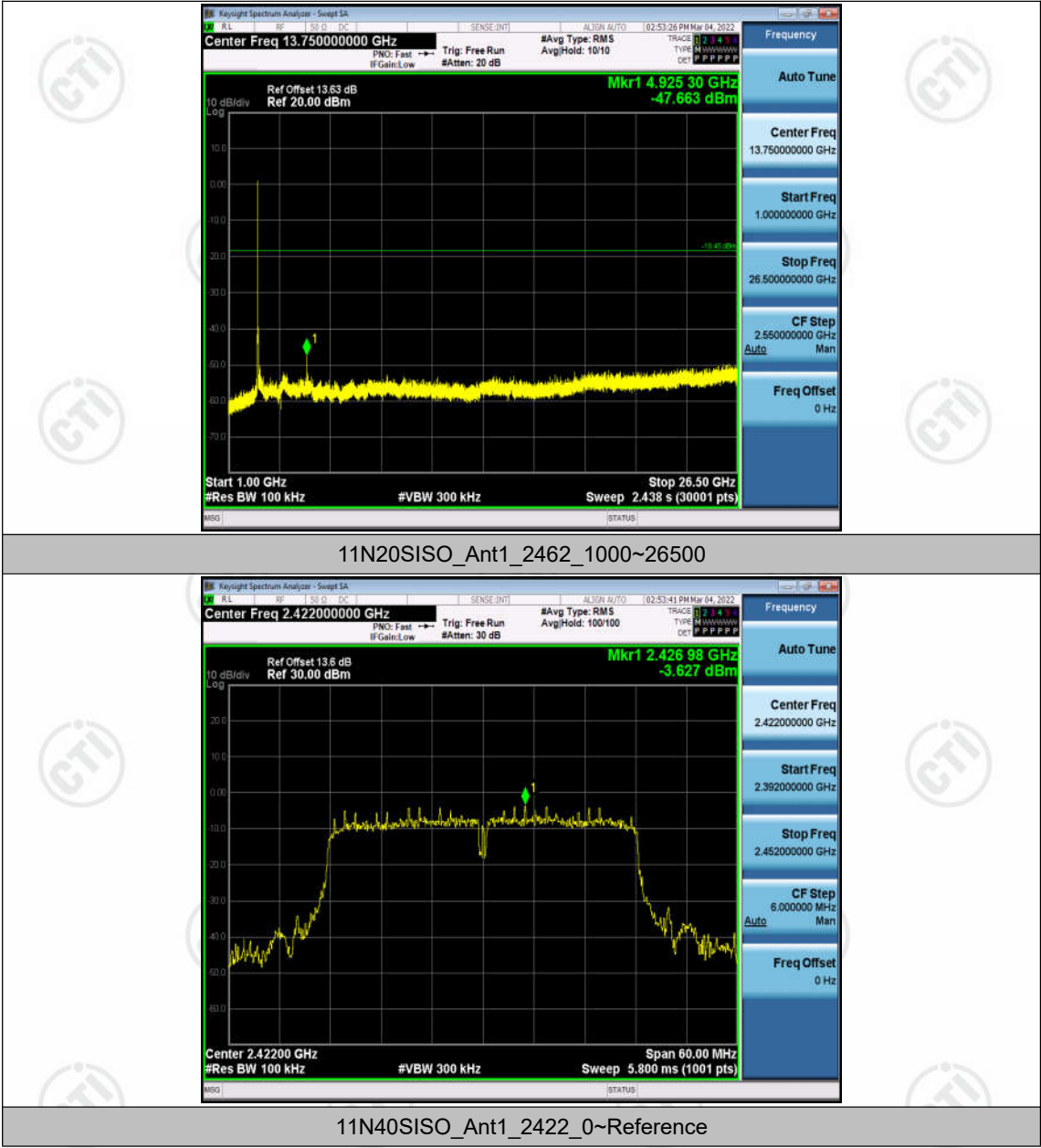
11N20SISO_Ant1_2412_1000~26500

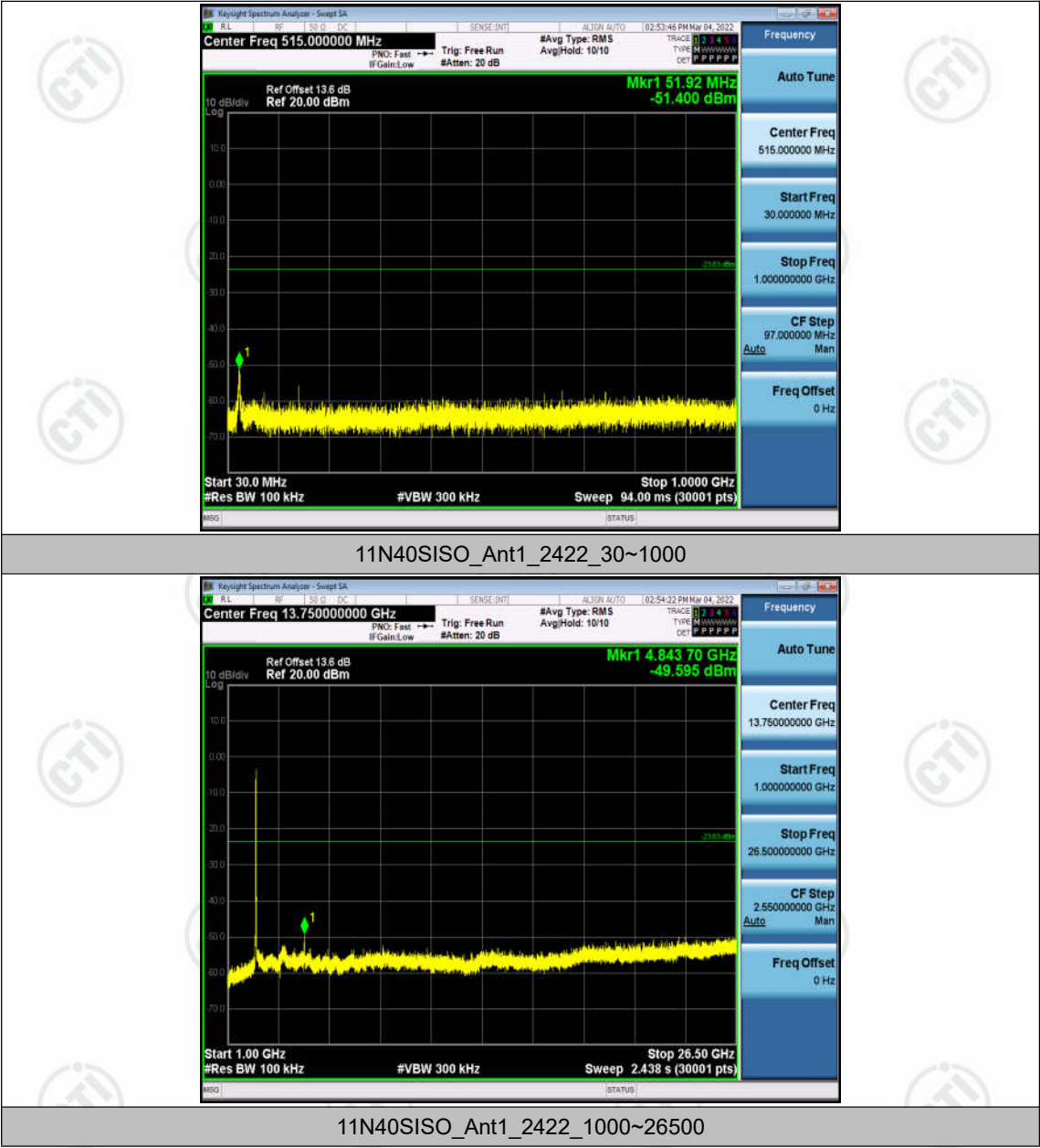


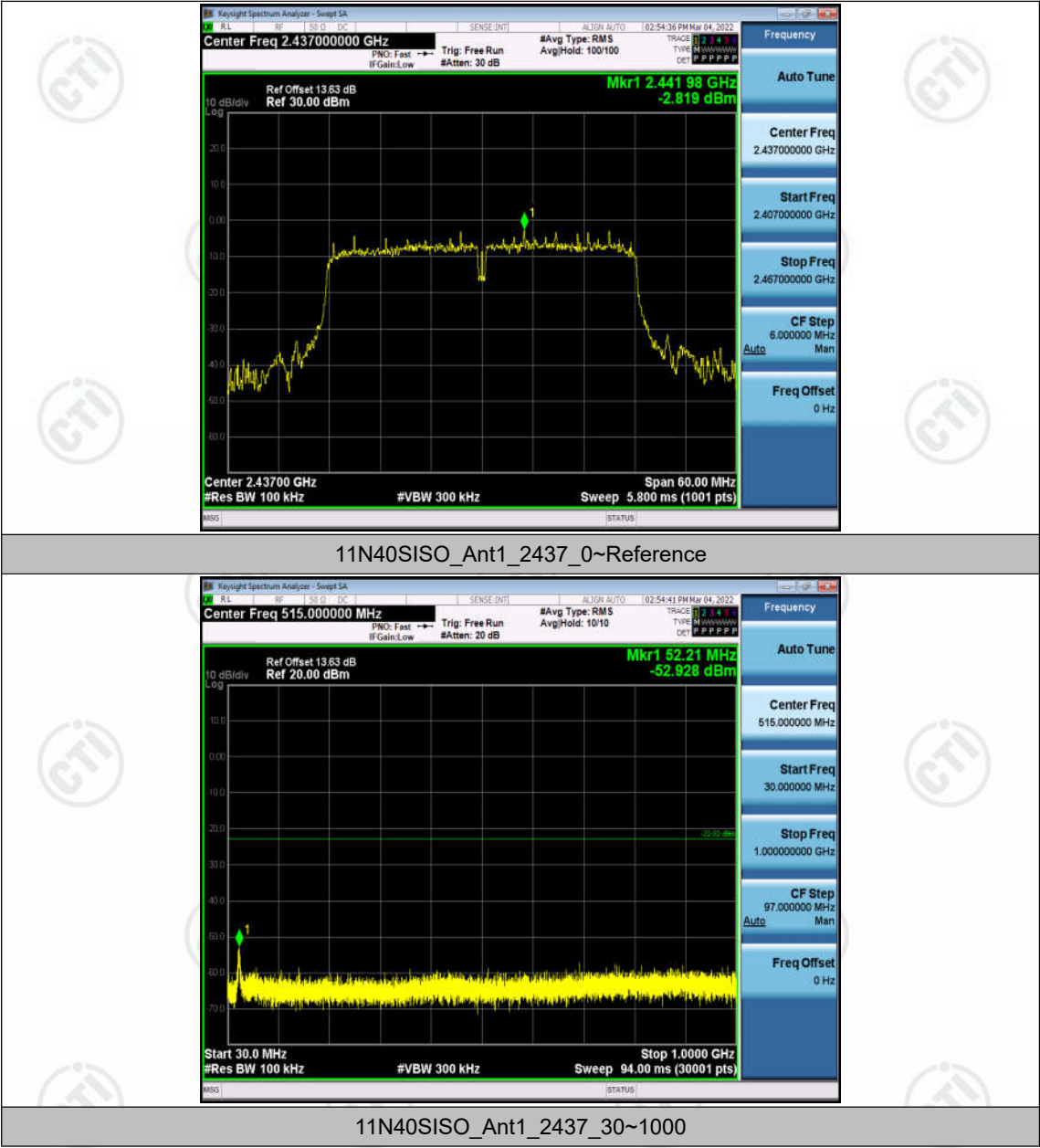
11N20SISO_Ant1_2437_0~Reference

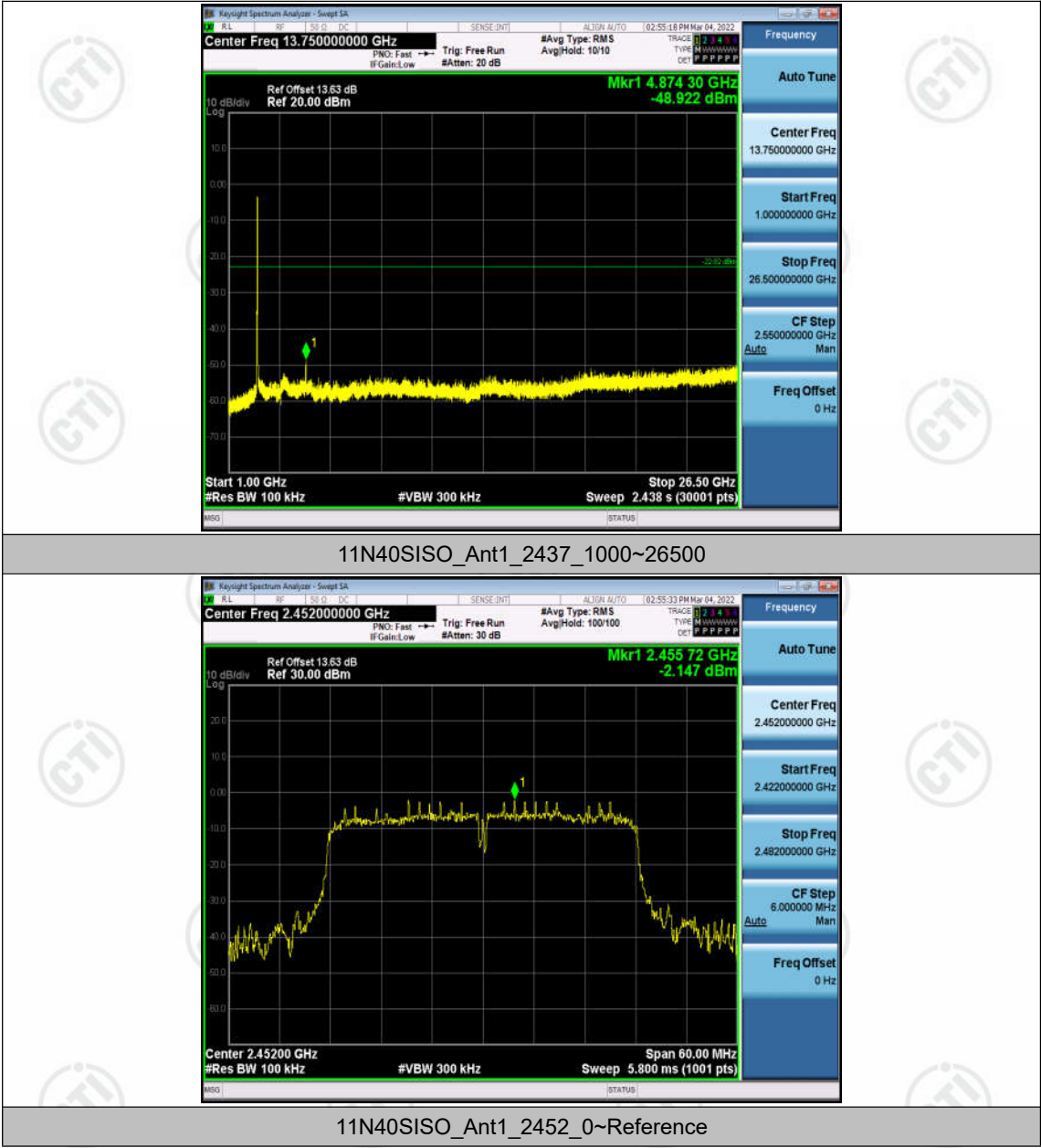


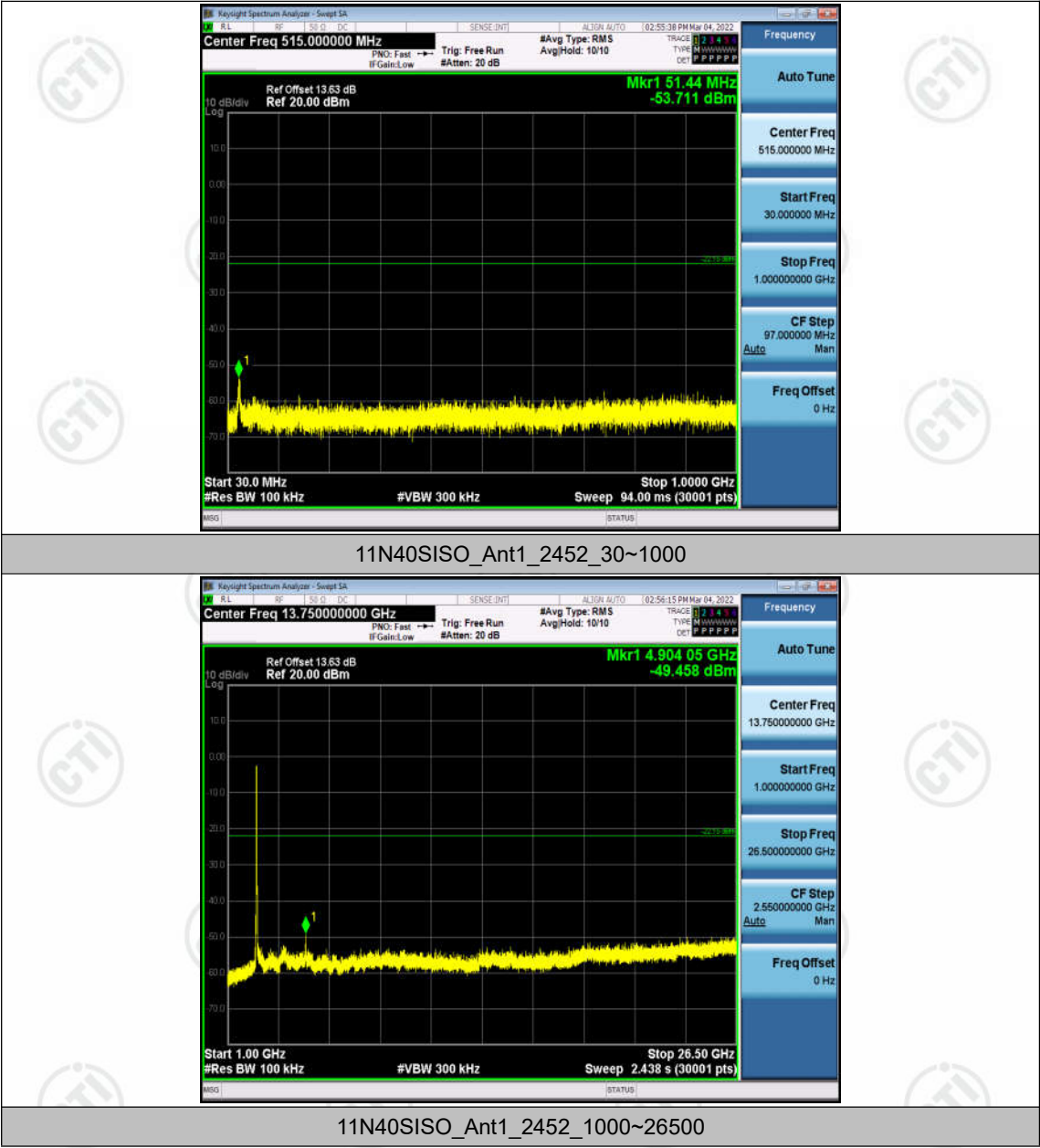










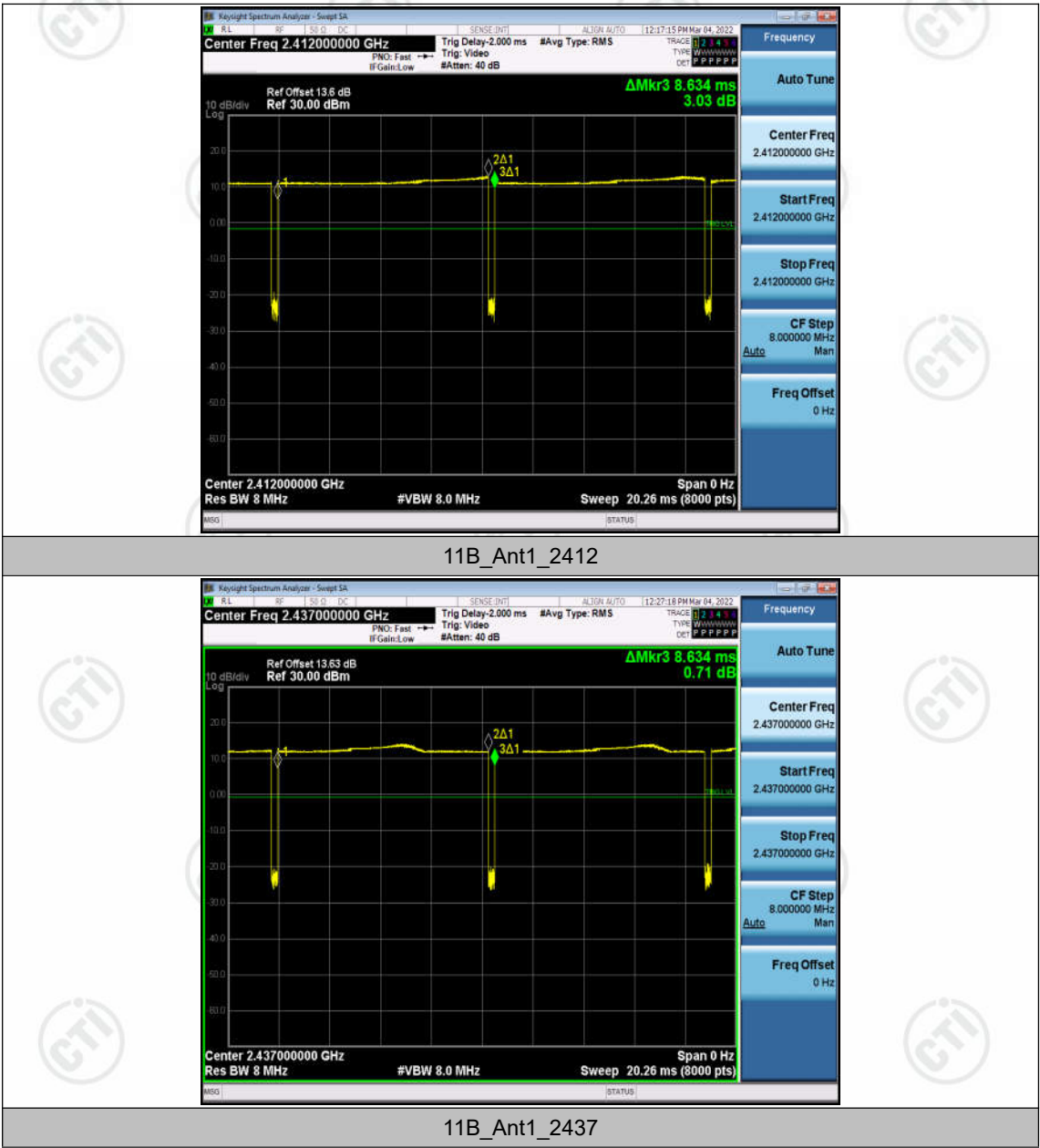


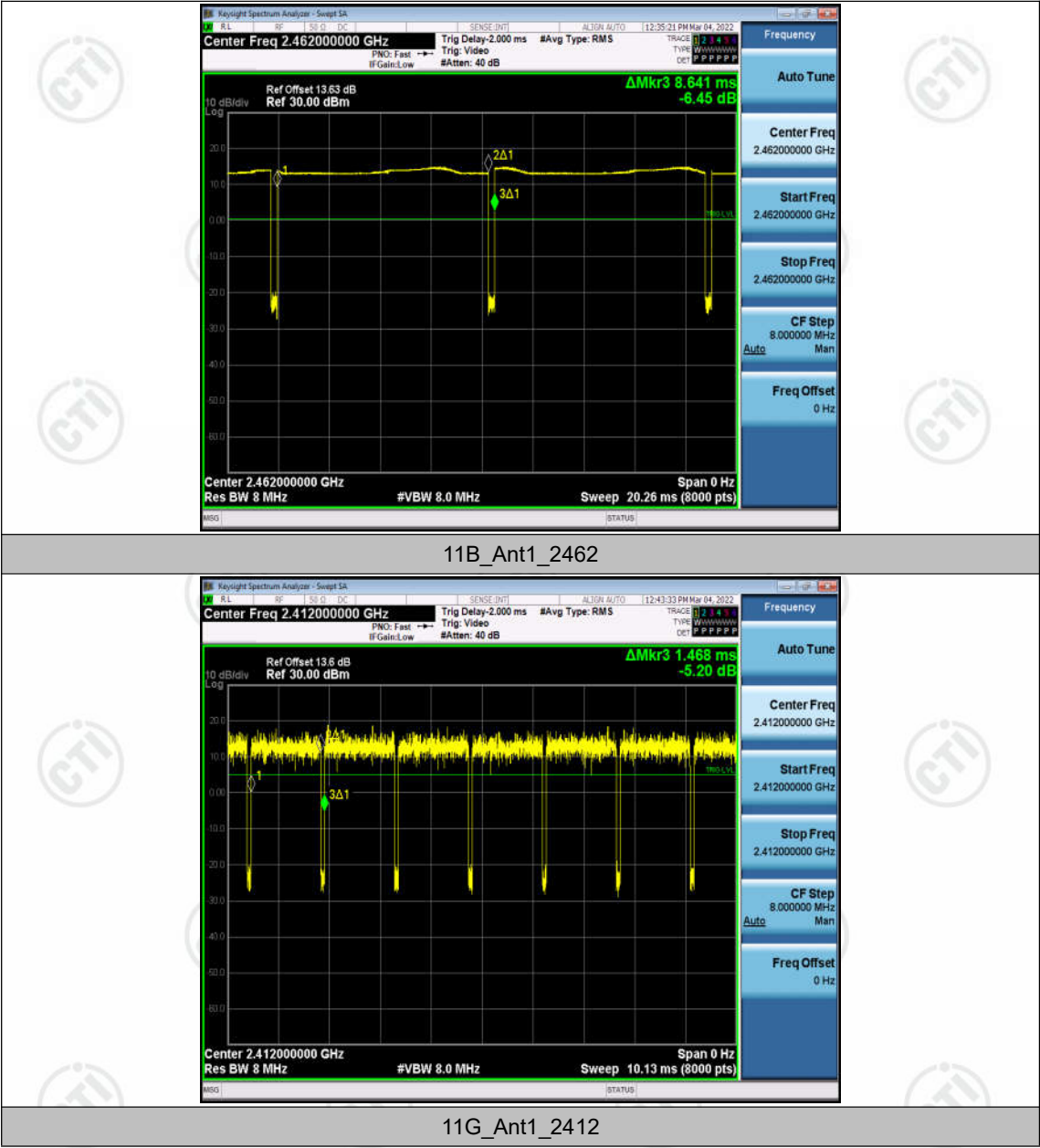
Appendix G: Duty Cycle

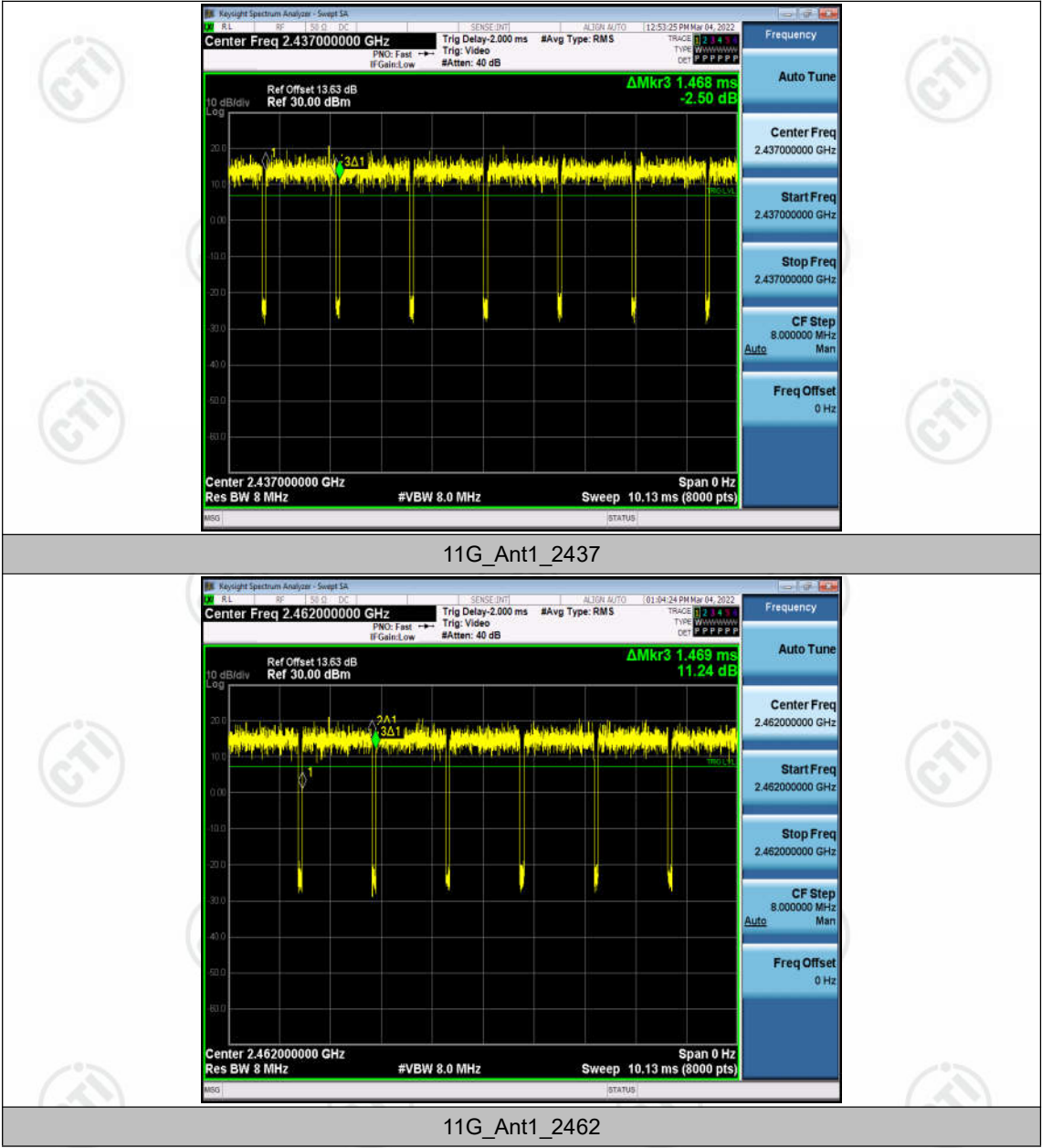
Test Result

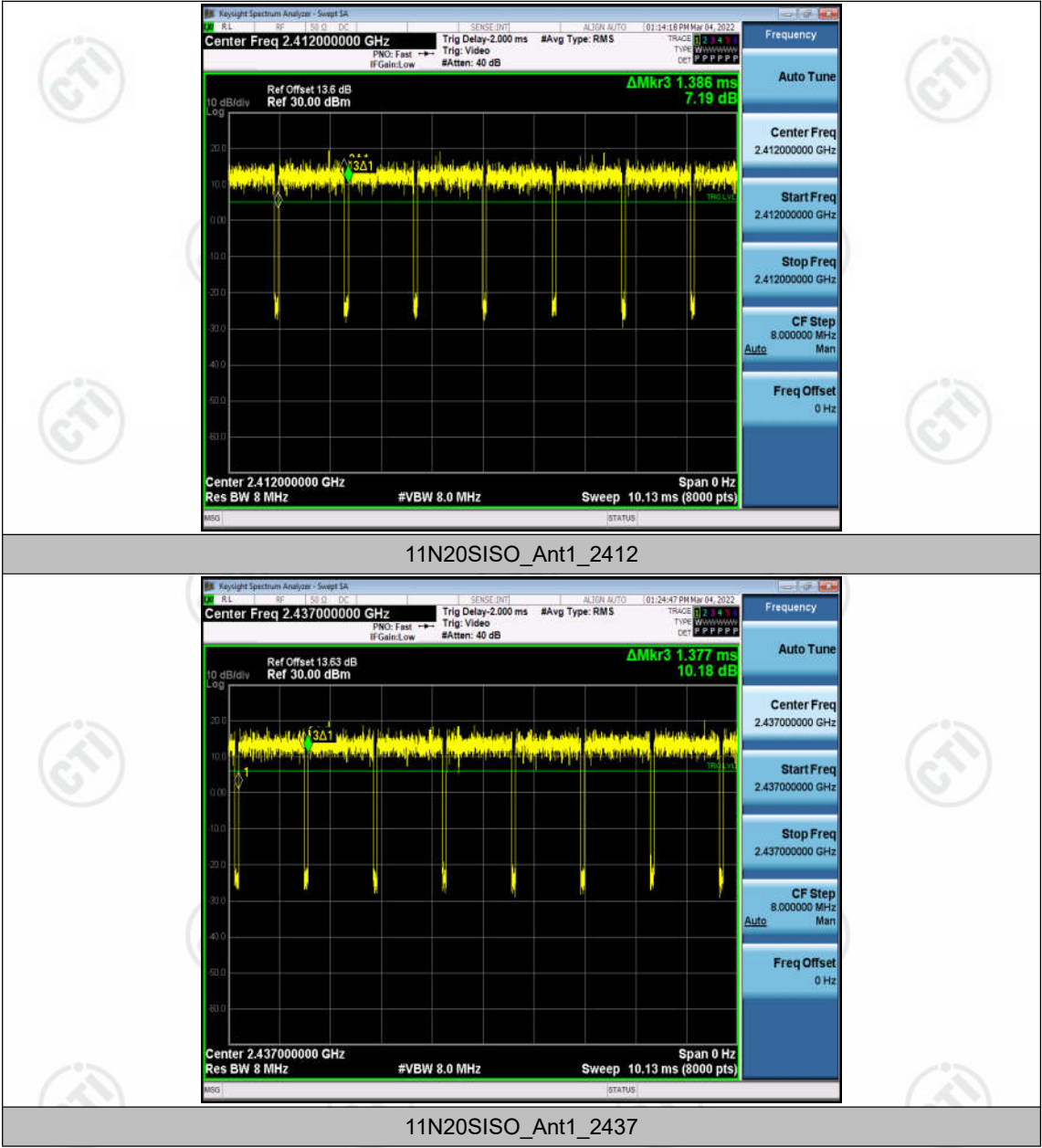
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.38	8.63	97.07	---	PASS
		2437	8.38	8.63	97.07	---	PASS
		2462	8.38	8.64	96.98	---	PASS
11G	Ant1	2412	1.39	1.47	94.74	---	PASS
		2437	1.39	1.47	94.65	---	PASS
		2462	1.39	1.47	94.66	---	PASS
11N20SISO	Ant1	2412	1.30	1.39	93.69	---	PASS
		2437	1.30	1.38	94.30	---	PASS
		2462	1.30	1.38	94.30	---	PASS
11N40SISO	Ant1	2422	0.65	0.72	89.32	---	PASS
		2437	0.65	0.73	88.08	---	PASS
		2452	0.65	0.72	89.16	---	PASS

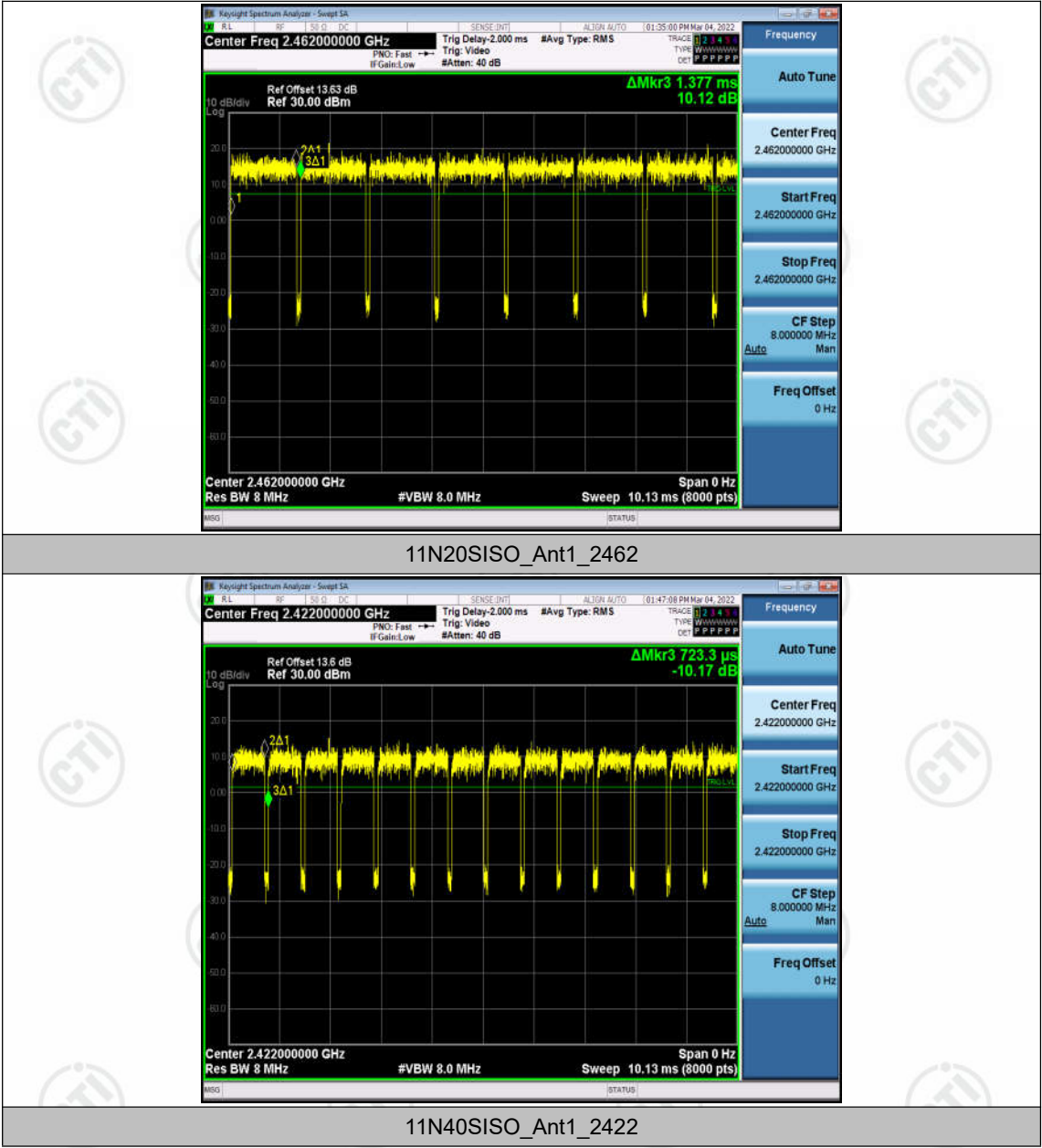
Test Graphs

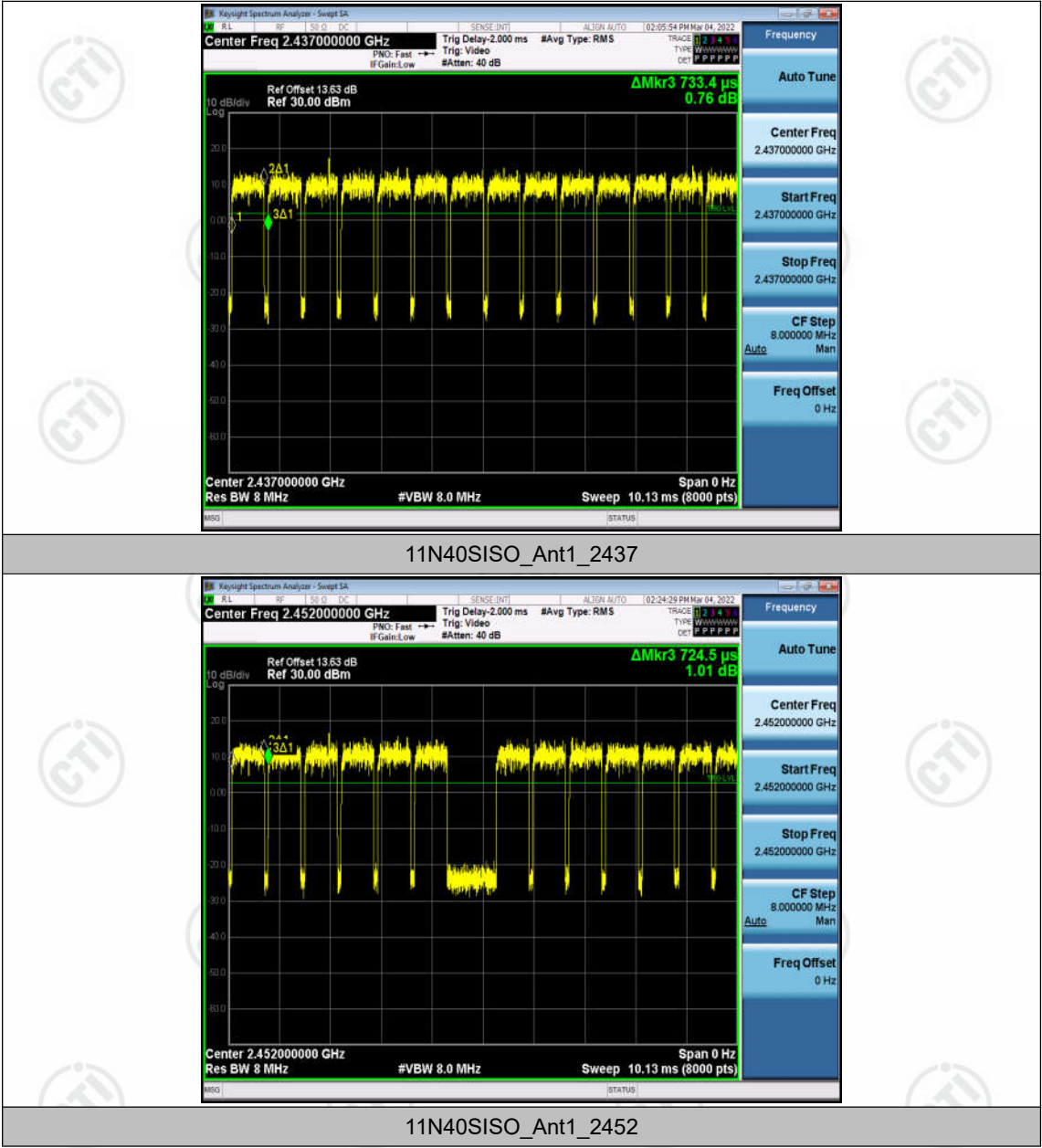












*** End of Report ***