

Appendix: Bluetooth Classic

Contents

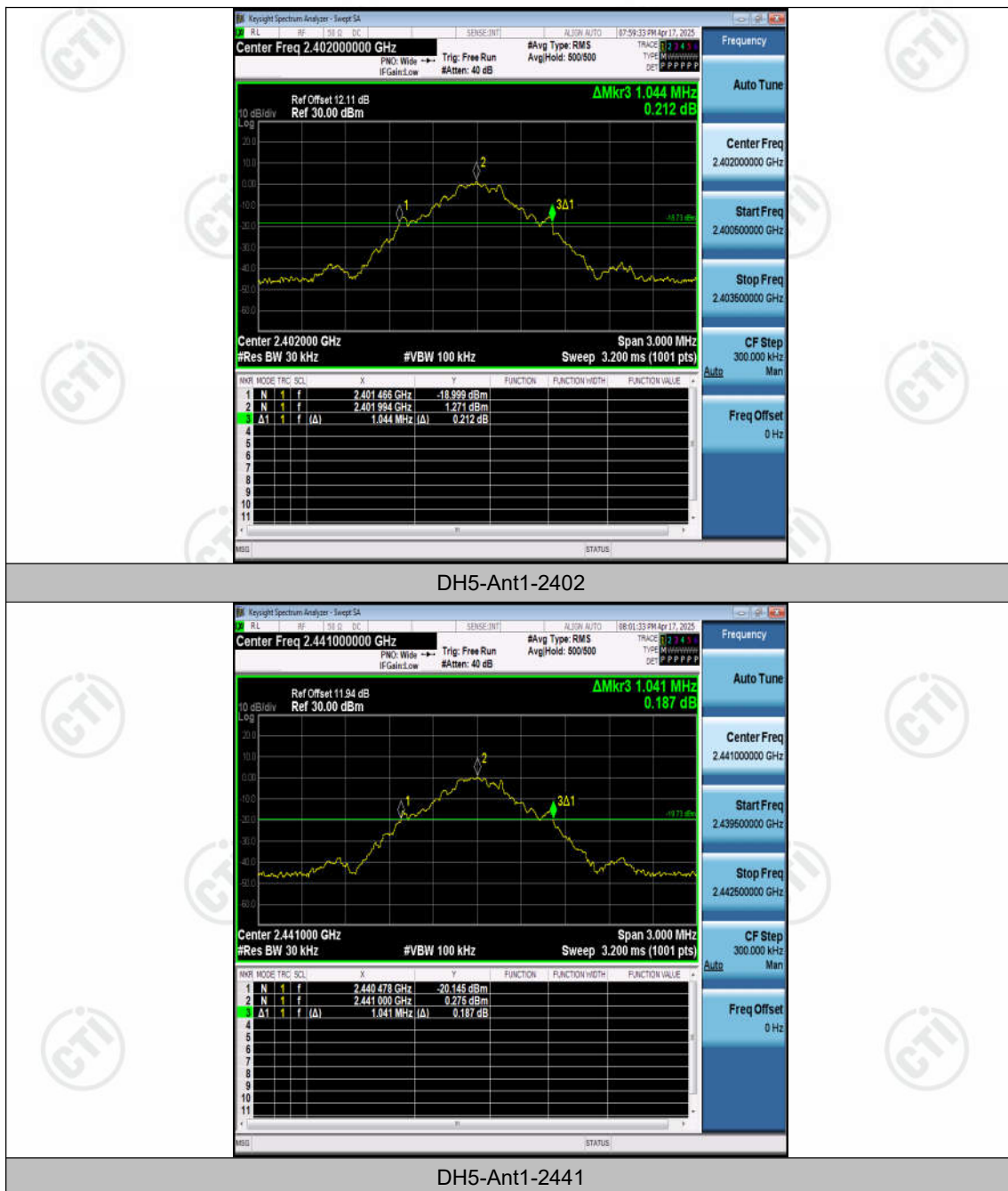
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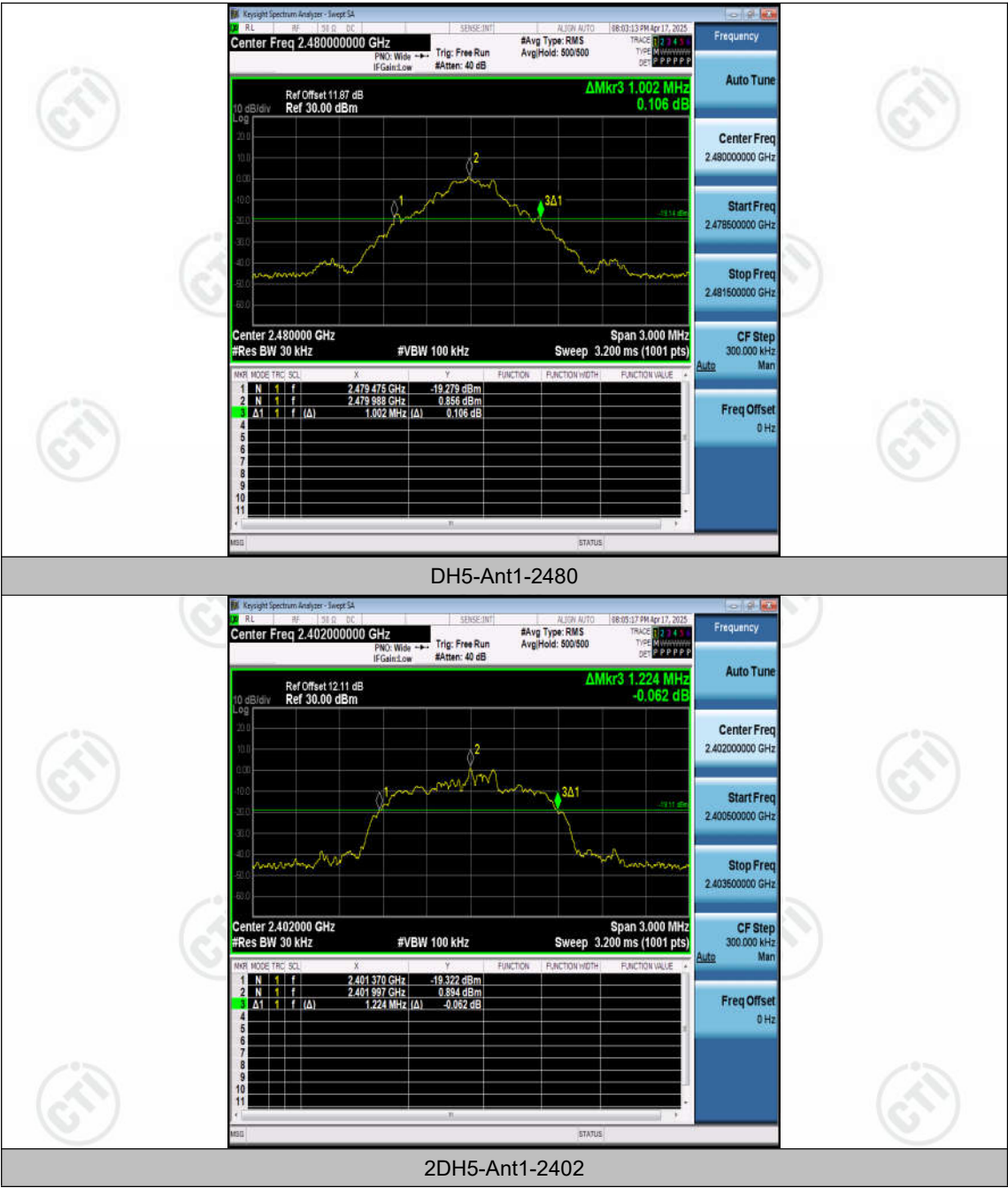
Appendix A: 20dB Emission Bandwidth

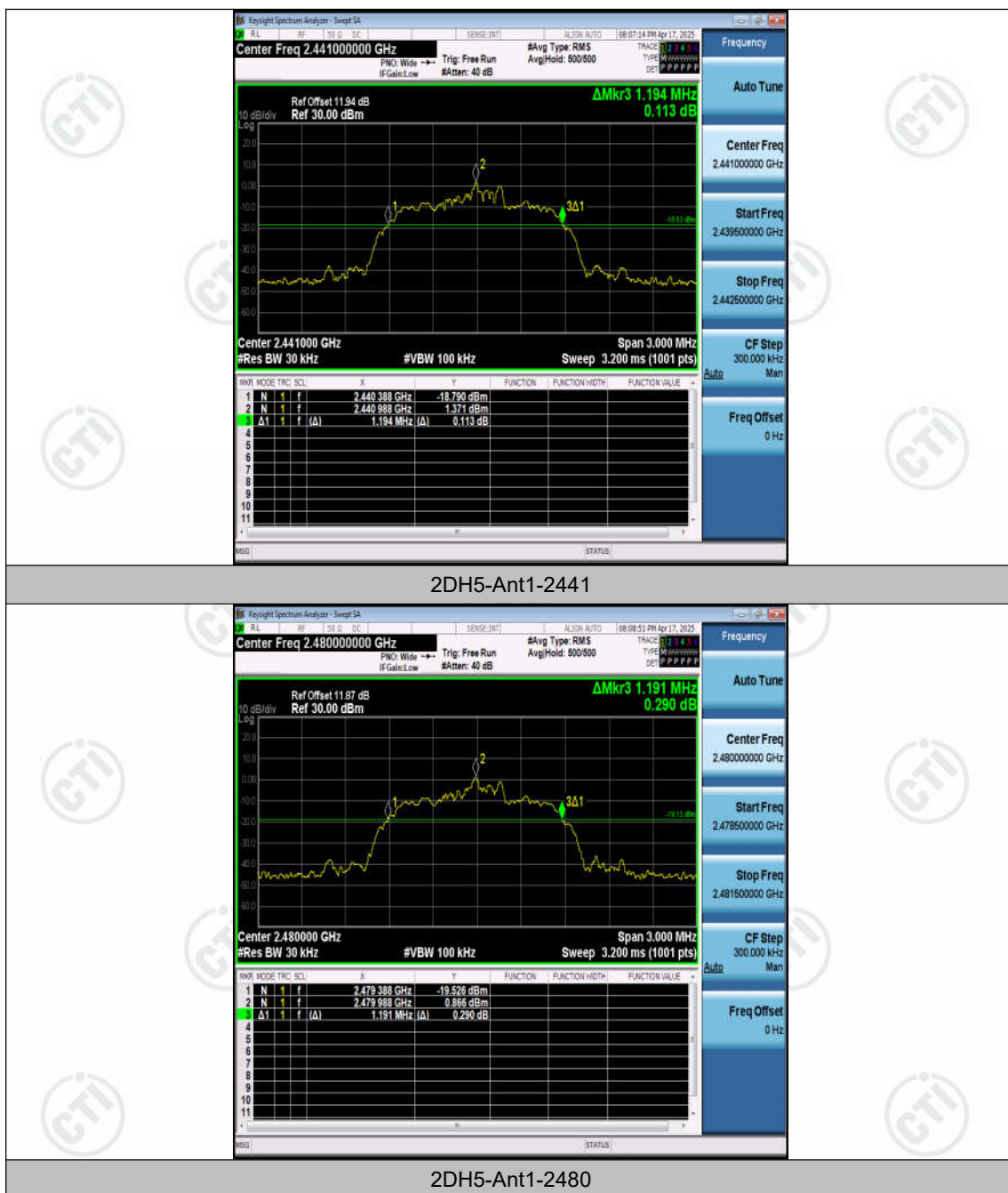
Test Result

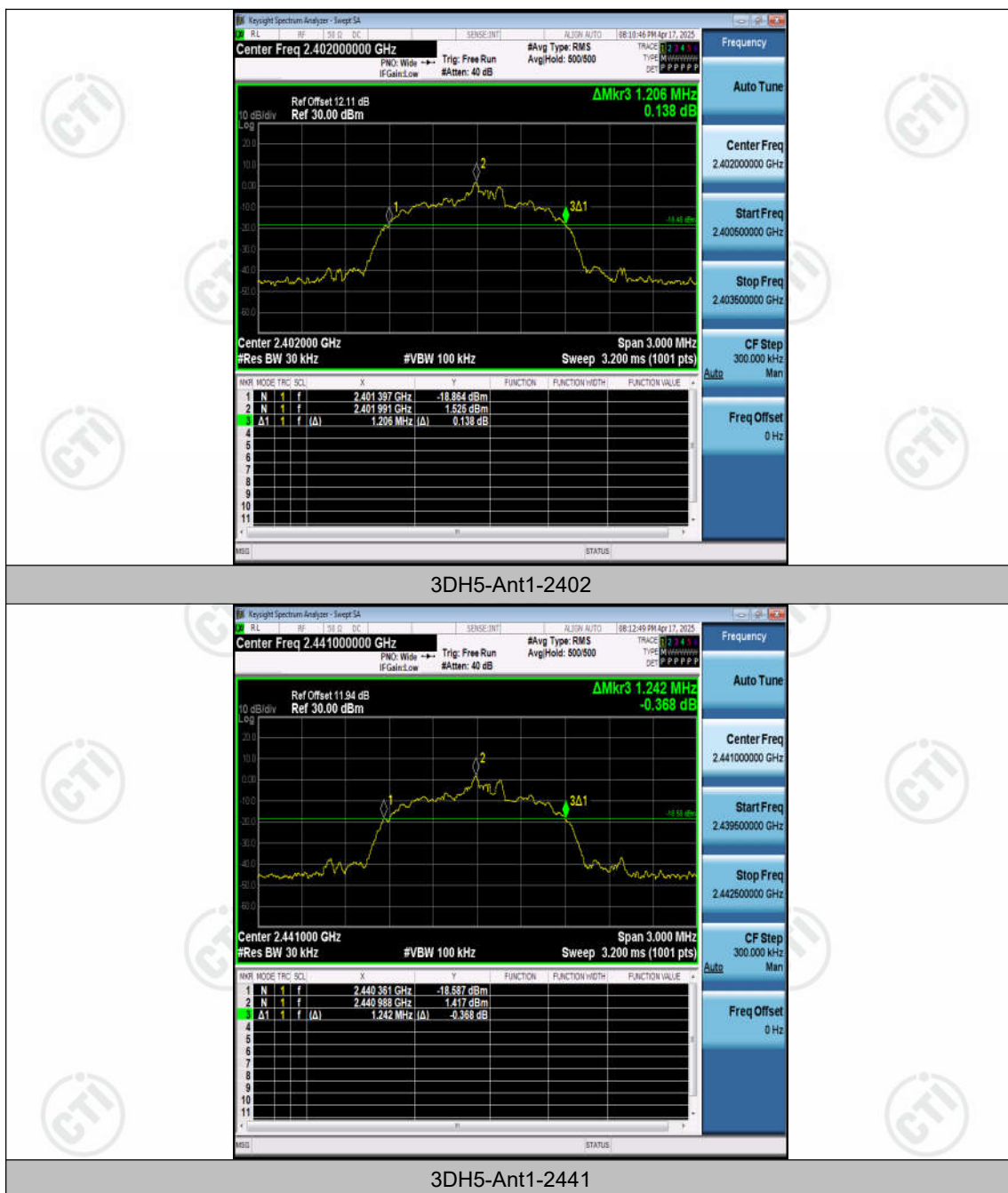
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.044	2401.466	2402.510	---	---
DH5	Ant1	2441	1.041	2440.478	2441.519	---	---
DH5	Ant1	2480	1.002	2479.475	2480.477	---	---
2DH5	Ant1	2402	1.224	2401.370	2402.594	---	---
2DH5	Ant1	2441	1.194	2440.388	2441.582	---	---
2DH5	Ant1	2480	1.191	2479.388	2480.579	---	---
3DH5	Ant1	2402	1.206	2401.397	2402.603	---	---
3DH5	Ant1	2441	1.242	2440.361	2441.603	---	---
3DH5	Ant1	2480	1.200	2479.403	2480.603	---	---

Test Graphs











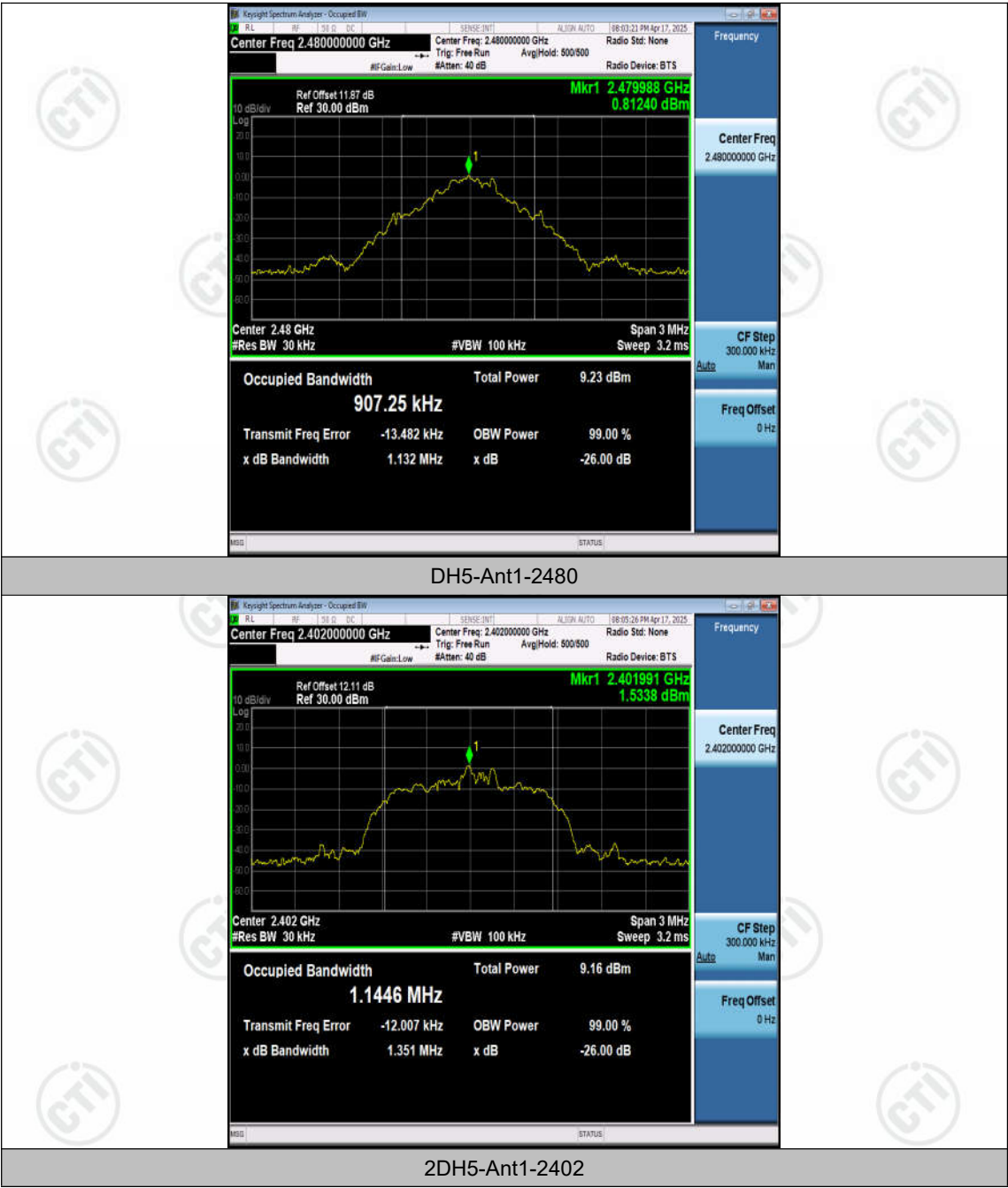
Appendix B: Occupied Channel Bandwidth

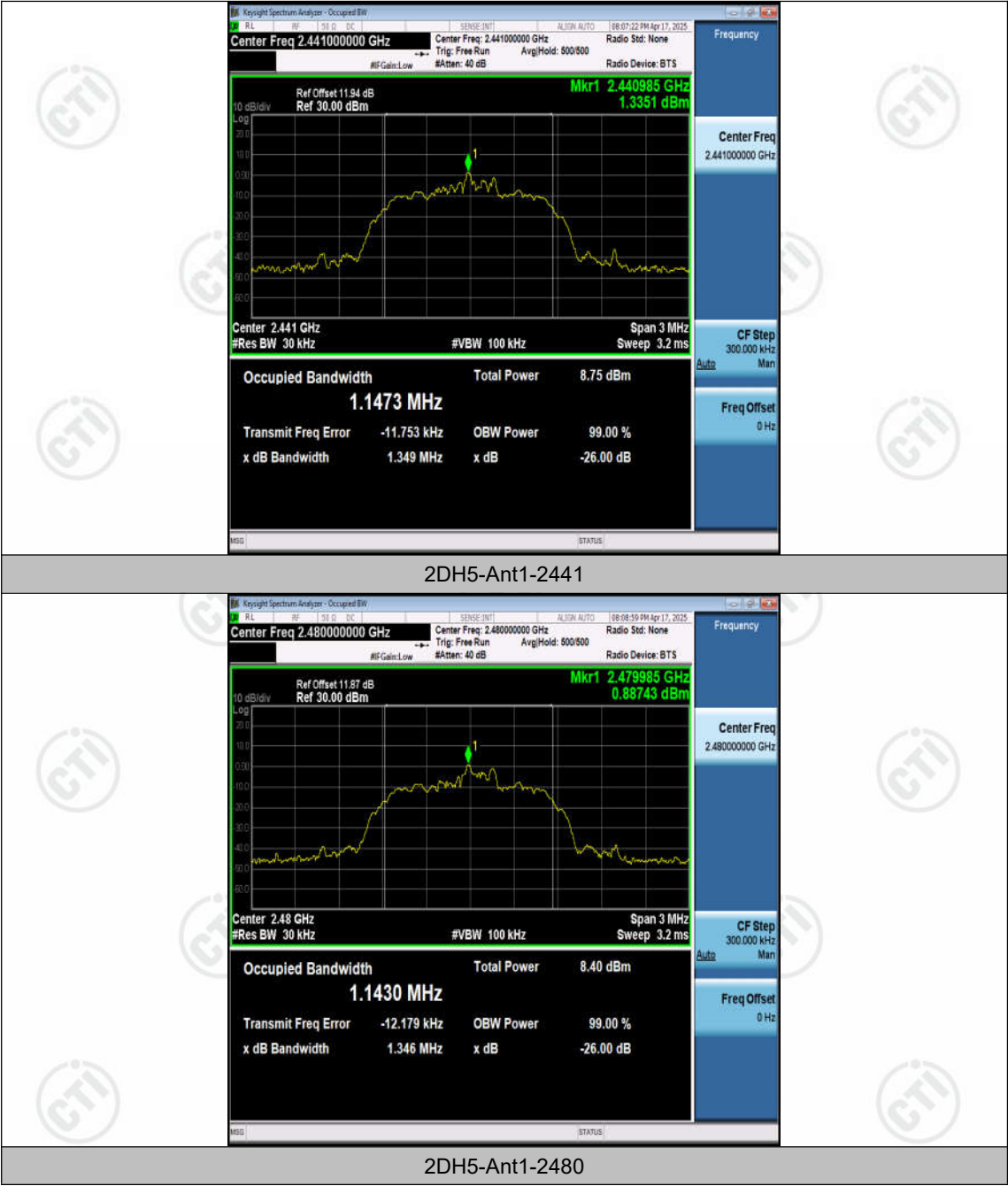
Test Result

TestMode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.94291	2401.5199	2402.4628	---	---
DH5	Ant1	2441	0.93760	2440.5170	2441.4546	---	---
DH5	Ant1	2480	0.90725	2479.5329	2480.4401	---	---
2DH5	Ant1	2402	1.1446	2401.4157	2402.5603	---	---
2DH5	Ant1	2441	1.1473	2440.4146	2441.5619	---	---
2DH5	Ant1	2480	1.1430	2479.4163	2480.5593	---	---
3DH5	Ant1	2402	1.1458	2401.4201	2402.5659	---	---
3DH5	Ant1	2441	1.1467	2440.4203	2441.5670	---	---
3DH5	Ant1	2480	1.1454	2479.4210	2480.5664	---	---

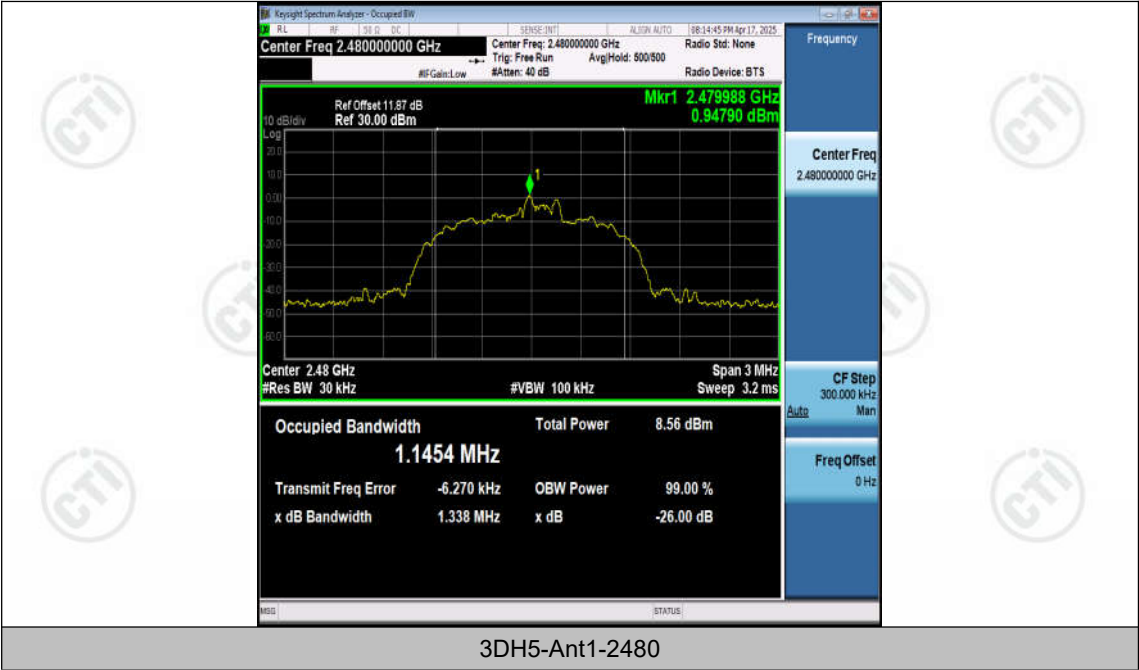
Test Graphs









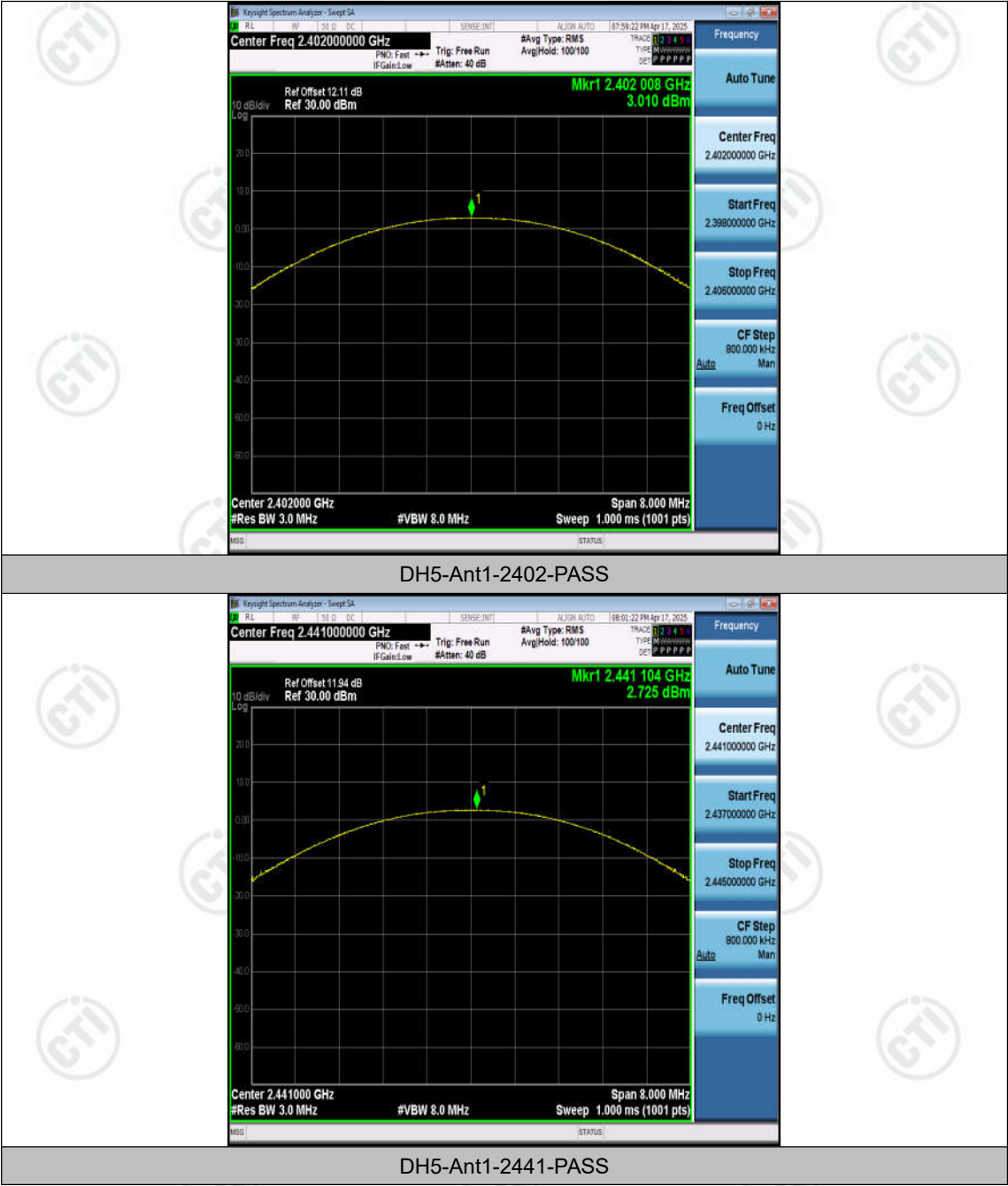


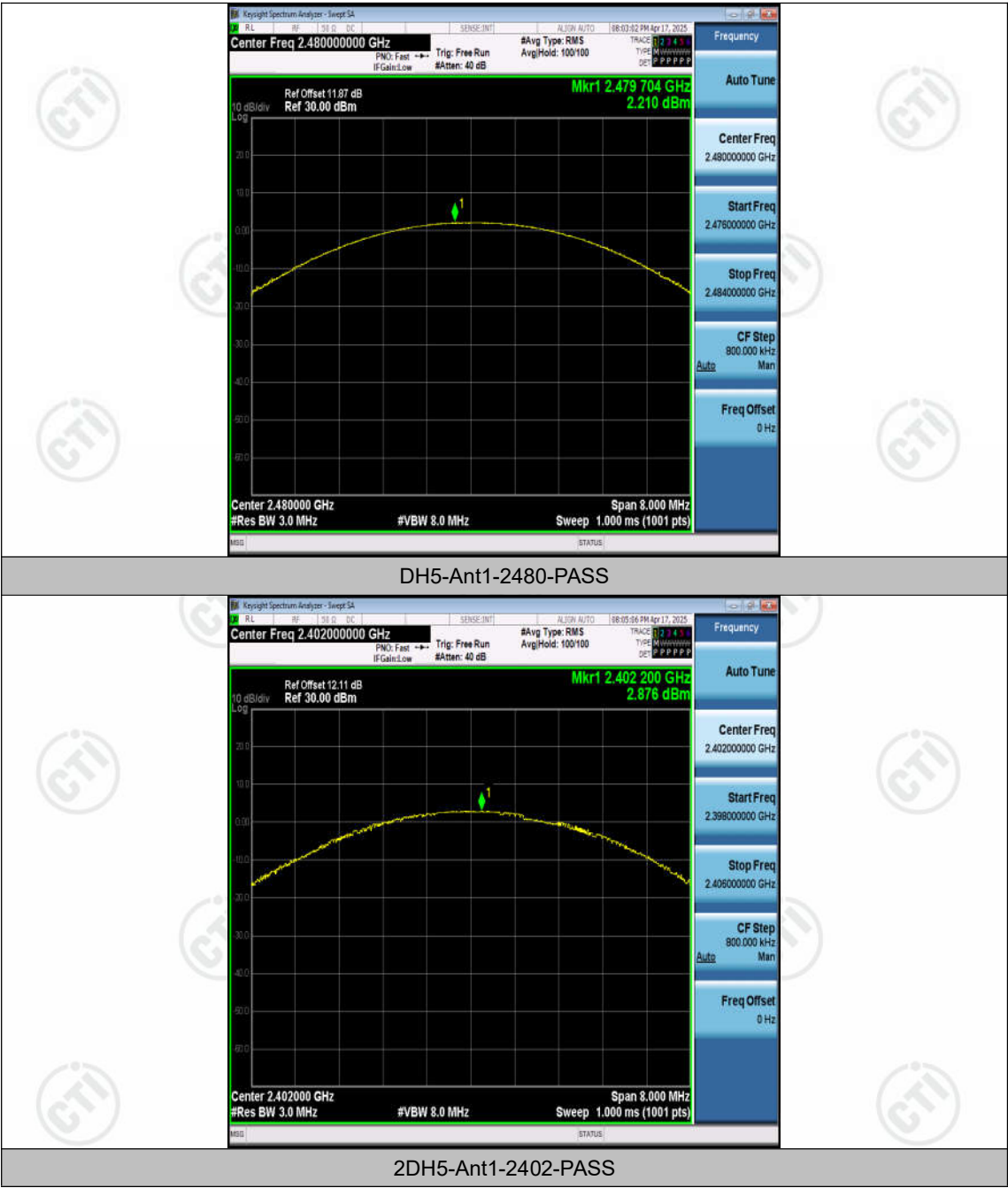
Appendix C: Maximum conducted output power

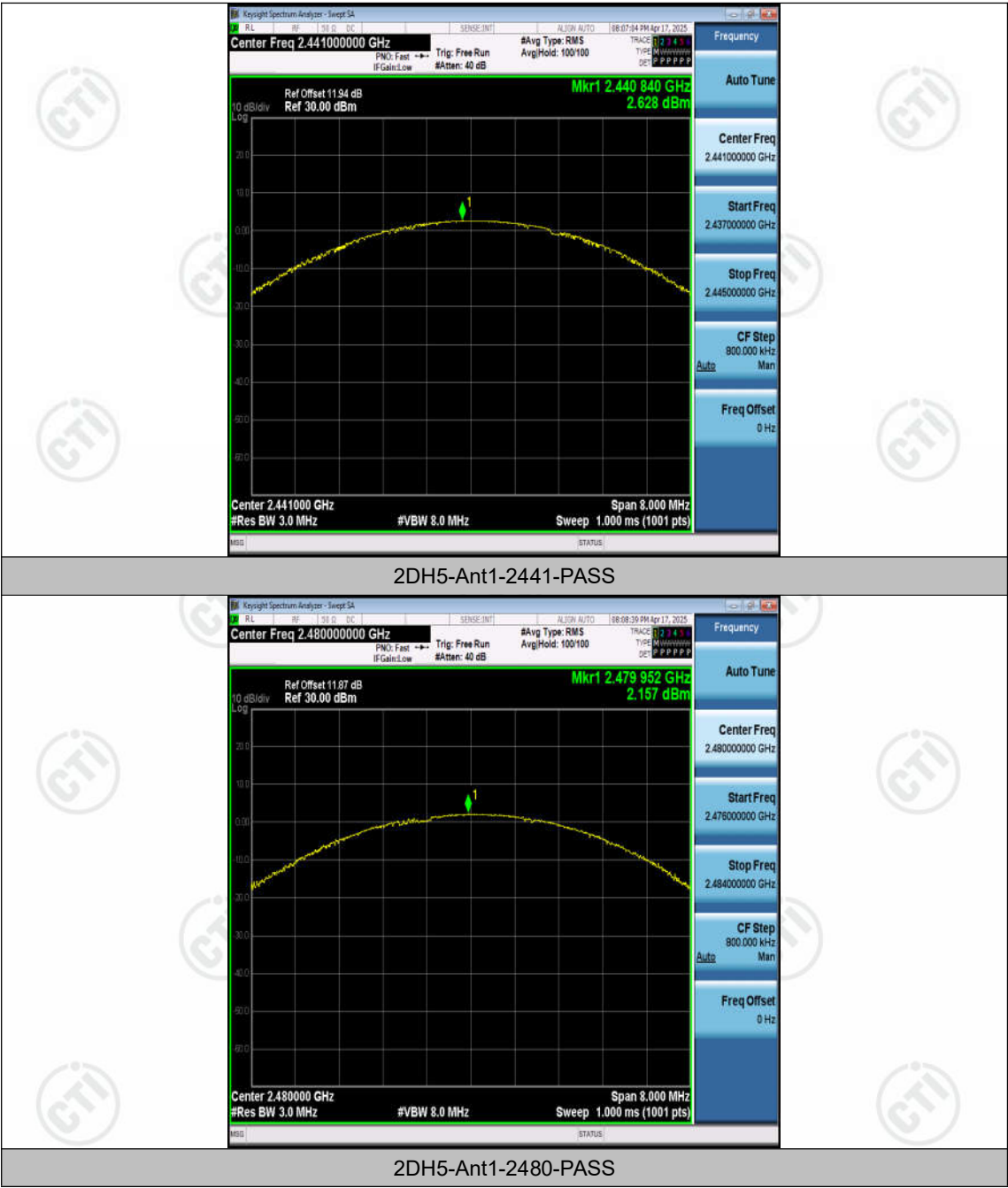
Test Result

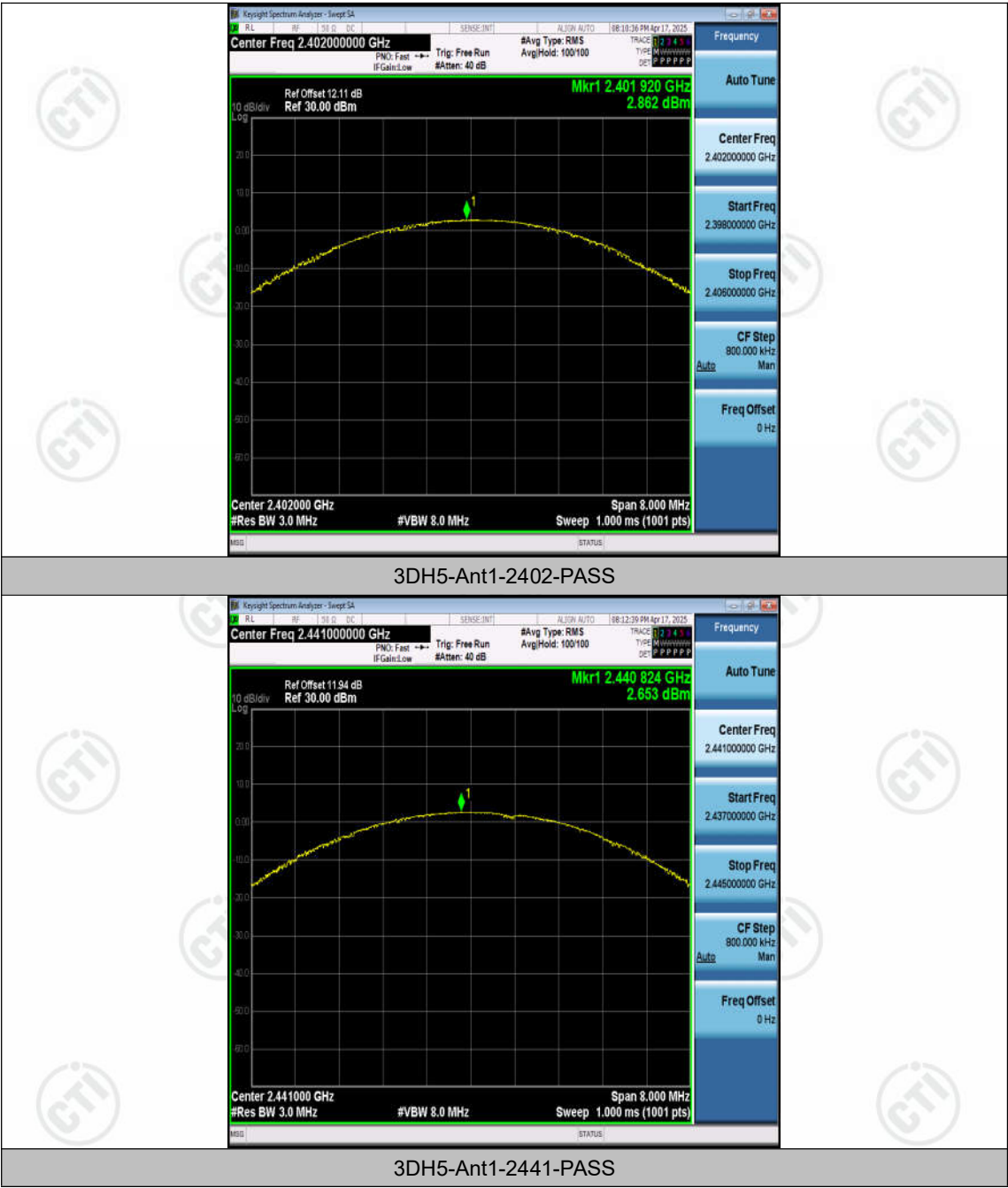
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	3.01	≤30	PASS
DH5	Ant1	2441	2.73	≤20.97	PASS
DH5	Ant1	2480	2.21	≤20.97	PASS
2DH5	Ant1	2402	2.88	≤30	PASS
2DH5	Ant1	2441	2.63	≤20.97	PASS
2DH5	Ant1	2480	2.16	≤20.97	PASS
3DH5	Ant1	2402	2.86	≤30	PASS
3DH5	Ant1	2441	2.65	≤20.97	PASS
3DH5	Ant1	2480	2.07	≤20.97	PASS

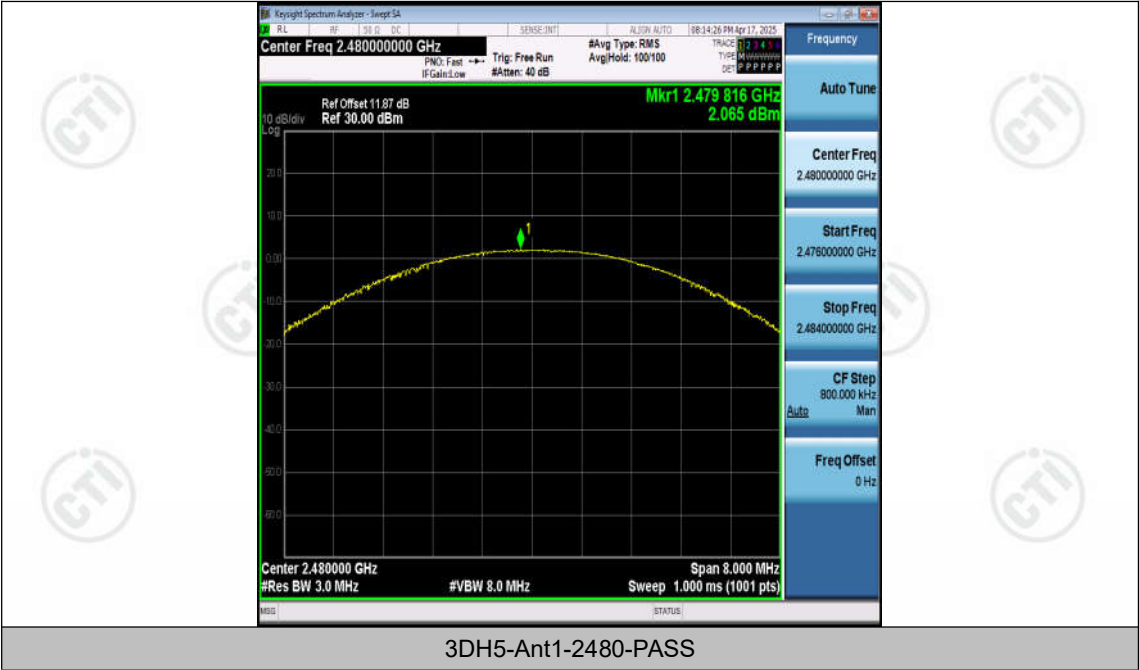
Test Graphs











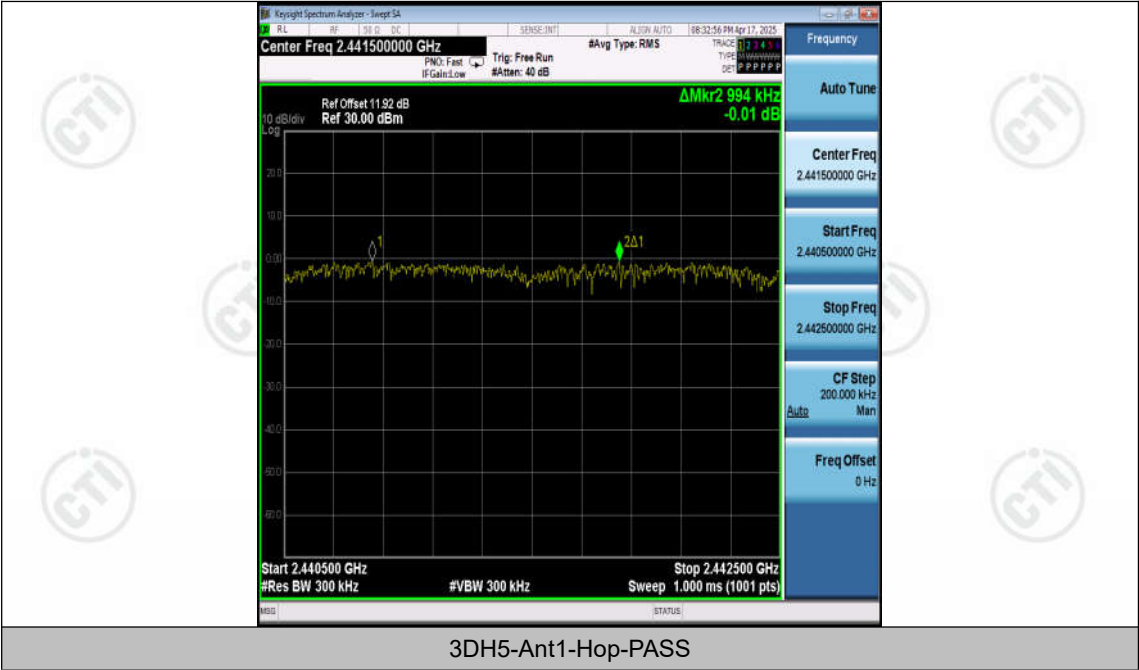
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.012	≥0.696	PASS
2DH5	Ant1	Hop	1.182	≥0.816	PASS
3DH5	Ant1	Hop	0.994	≥0.828	PASS

Test Graphs



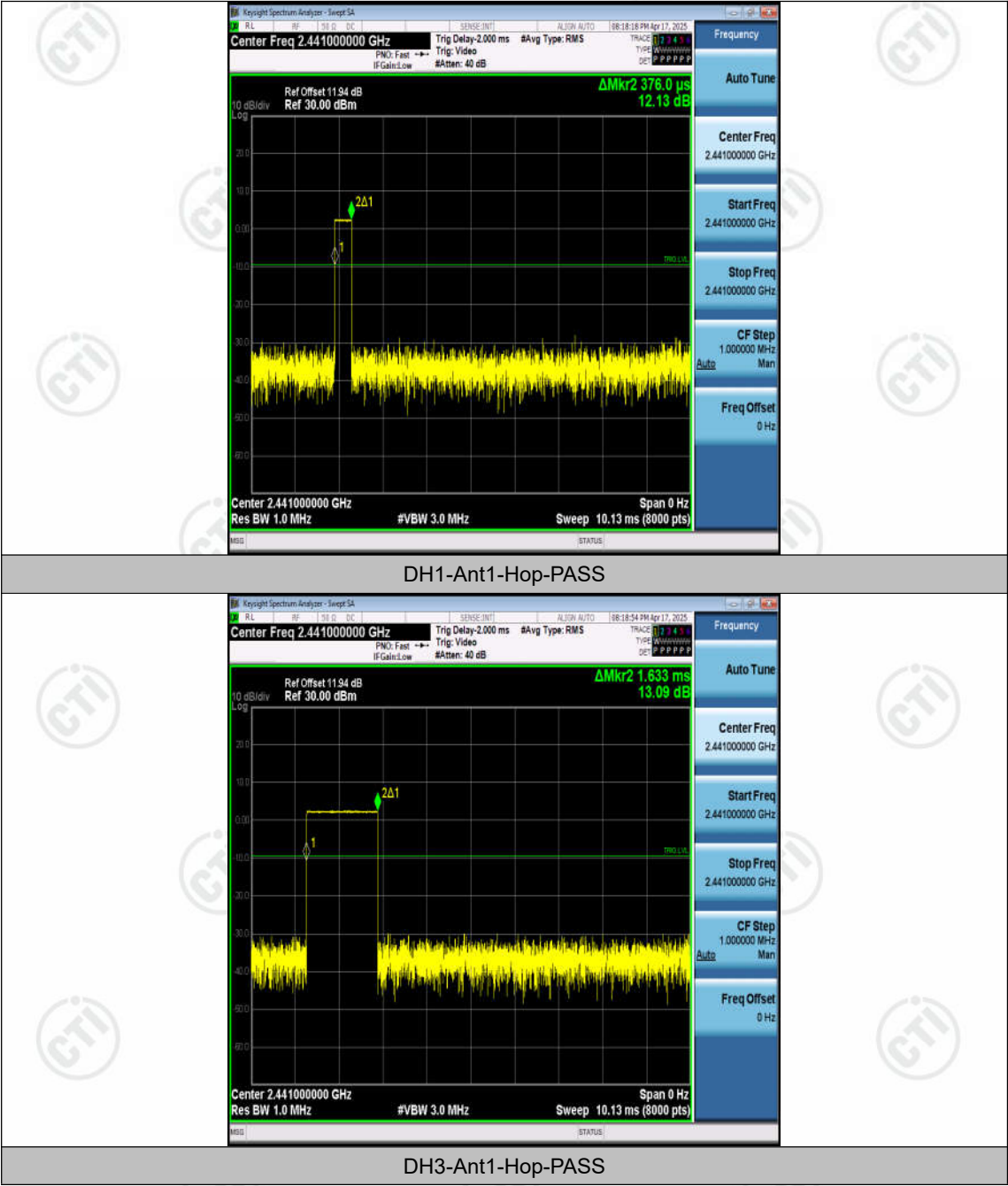


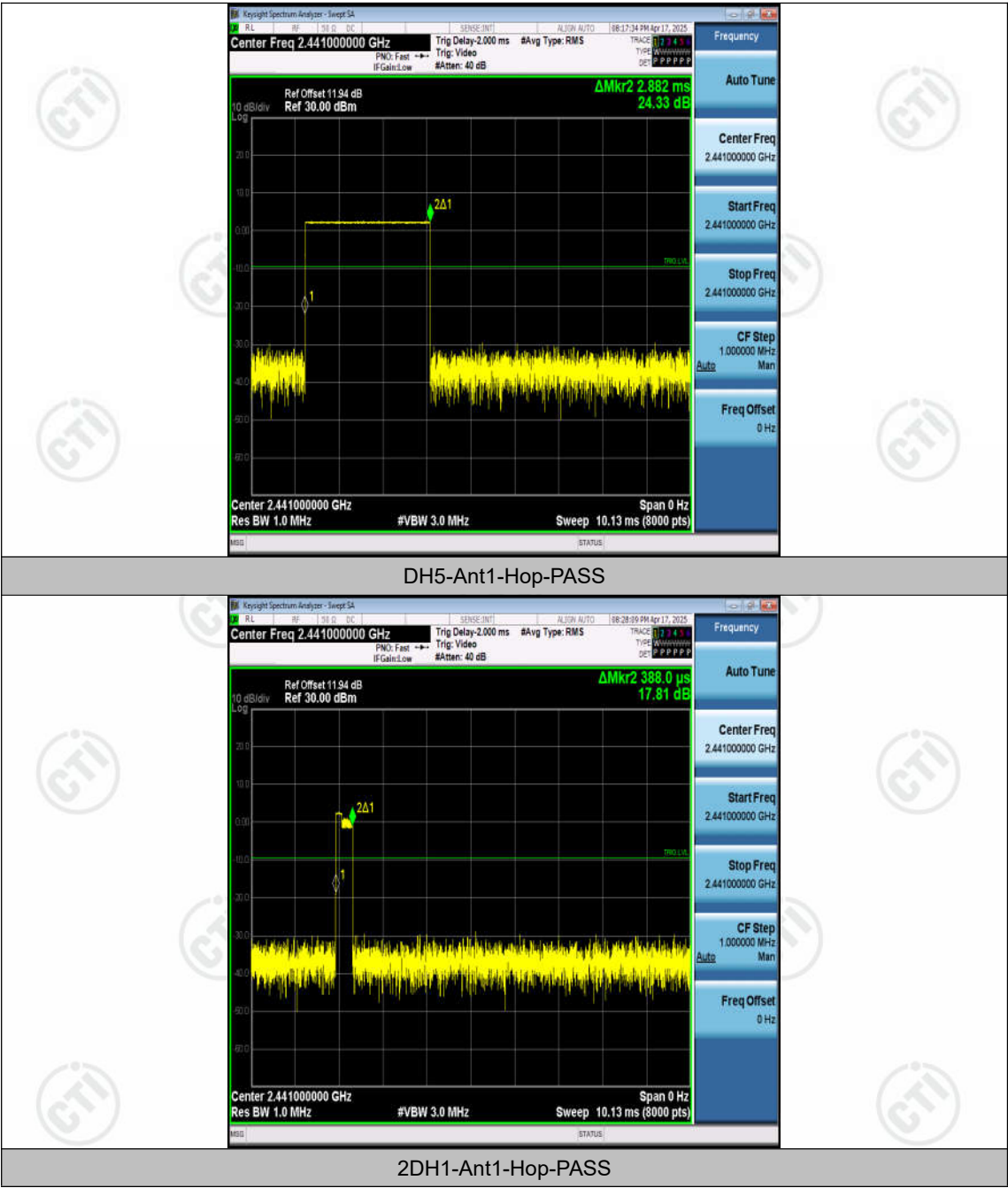
Appendix E: Time of occupancy

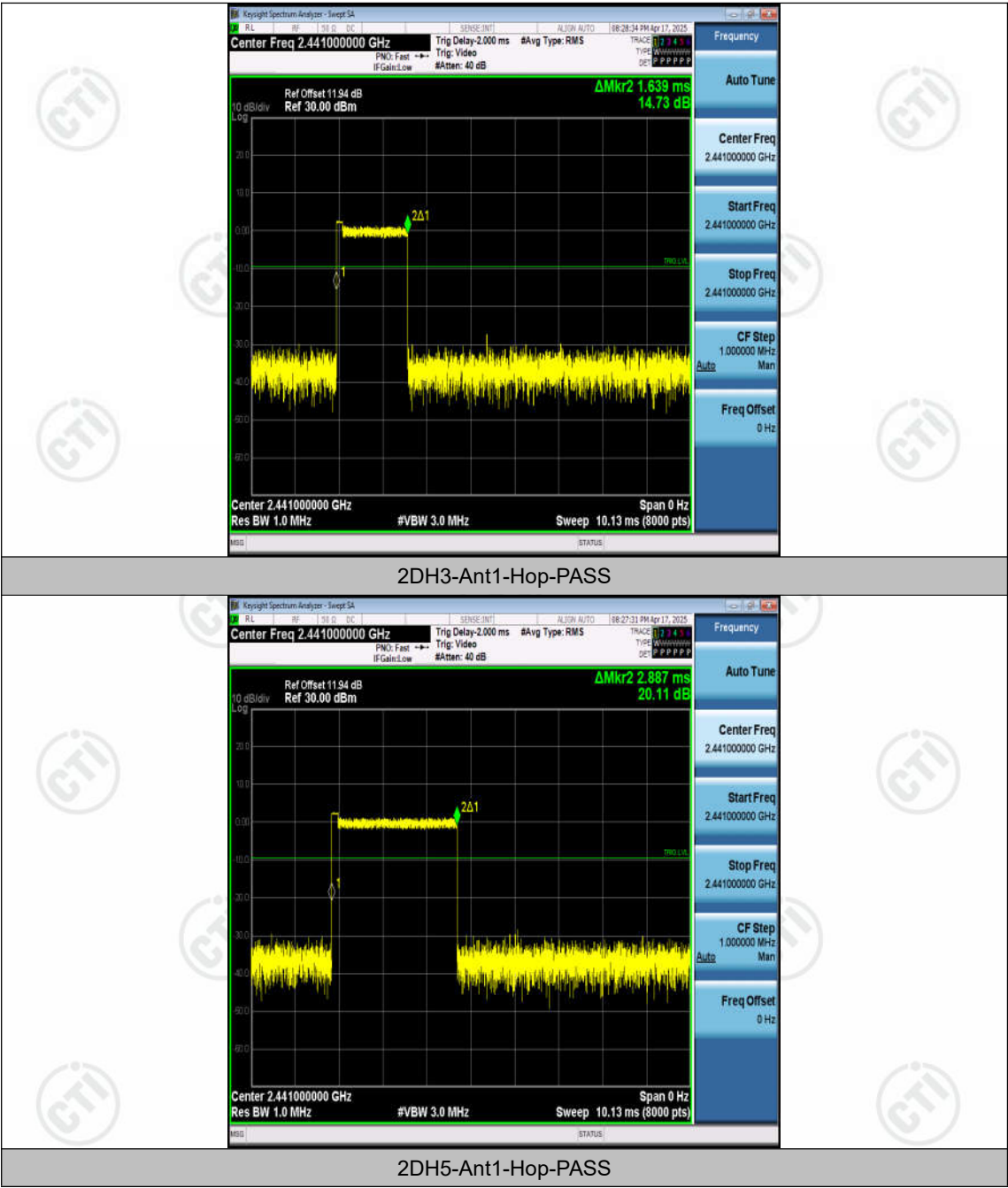
Test Result

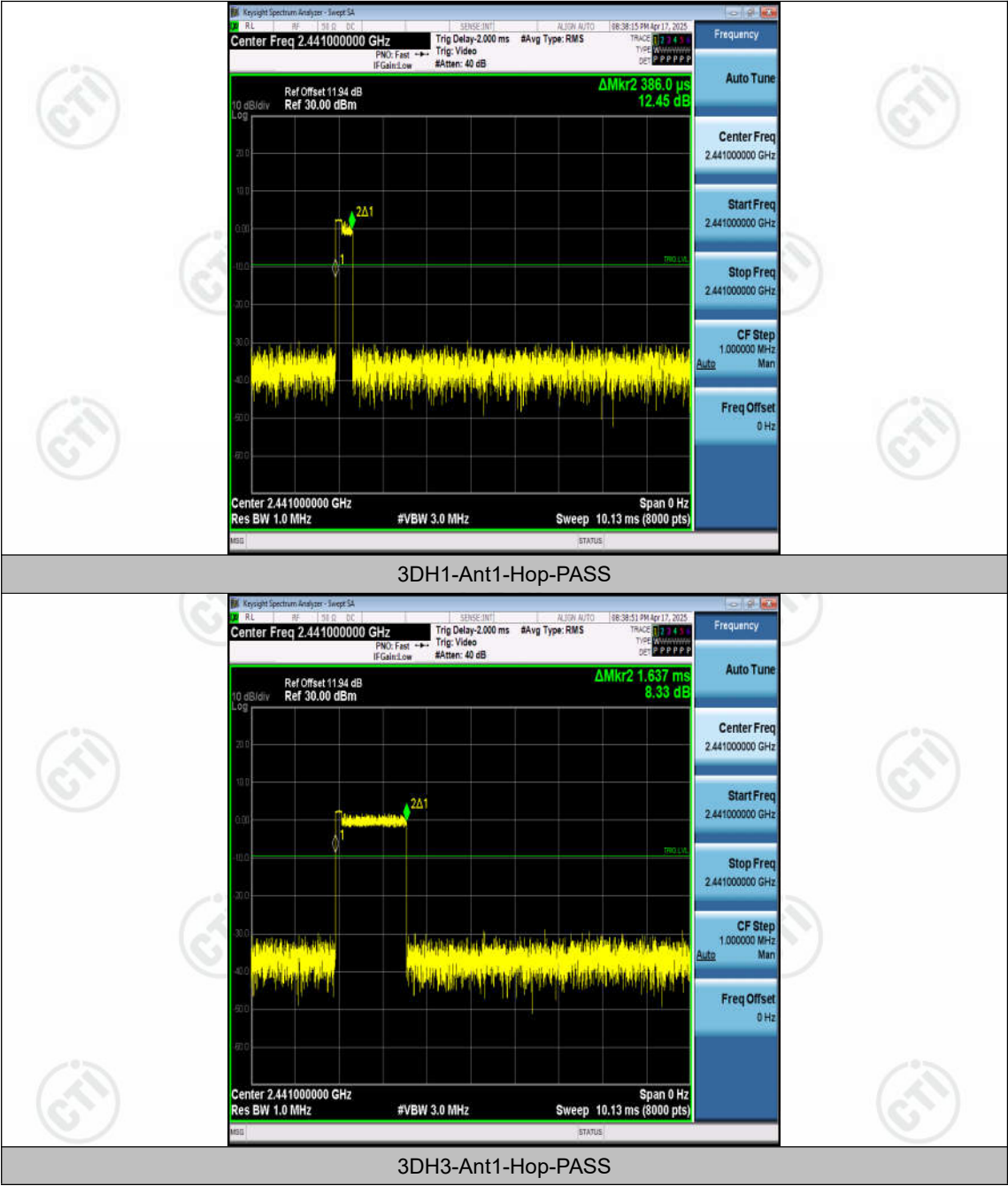
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.376	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.633	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.882	106.67	0.307	≤0.4	PASS
2DH1	Ant1	Hop	0.388	320	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.639	160	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.887	106.67	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.386	320	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.637	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.888	106.67	0.308	≤0.4	PASS

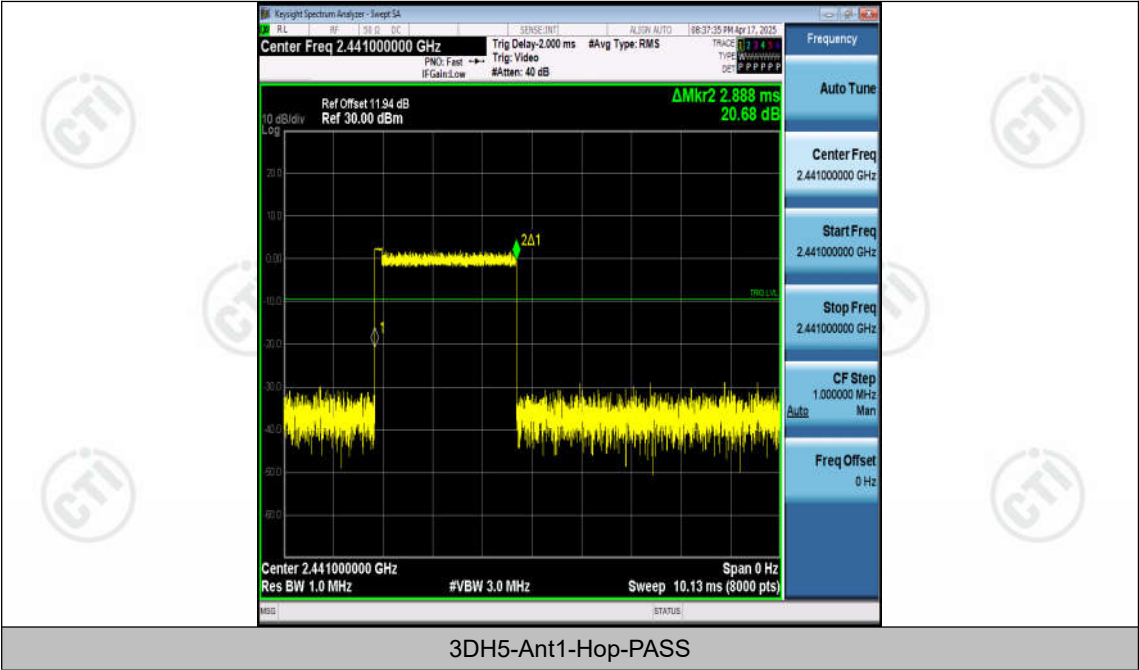
Test Graphs









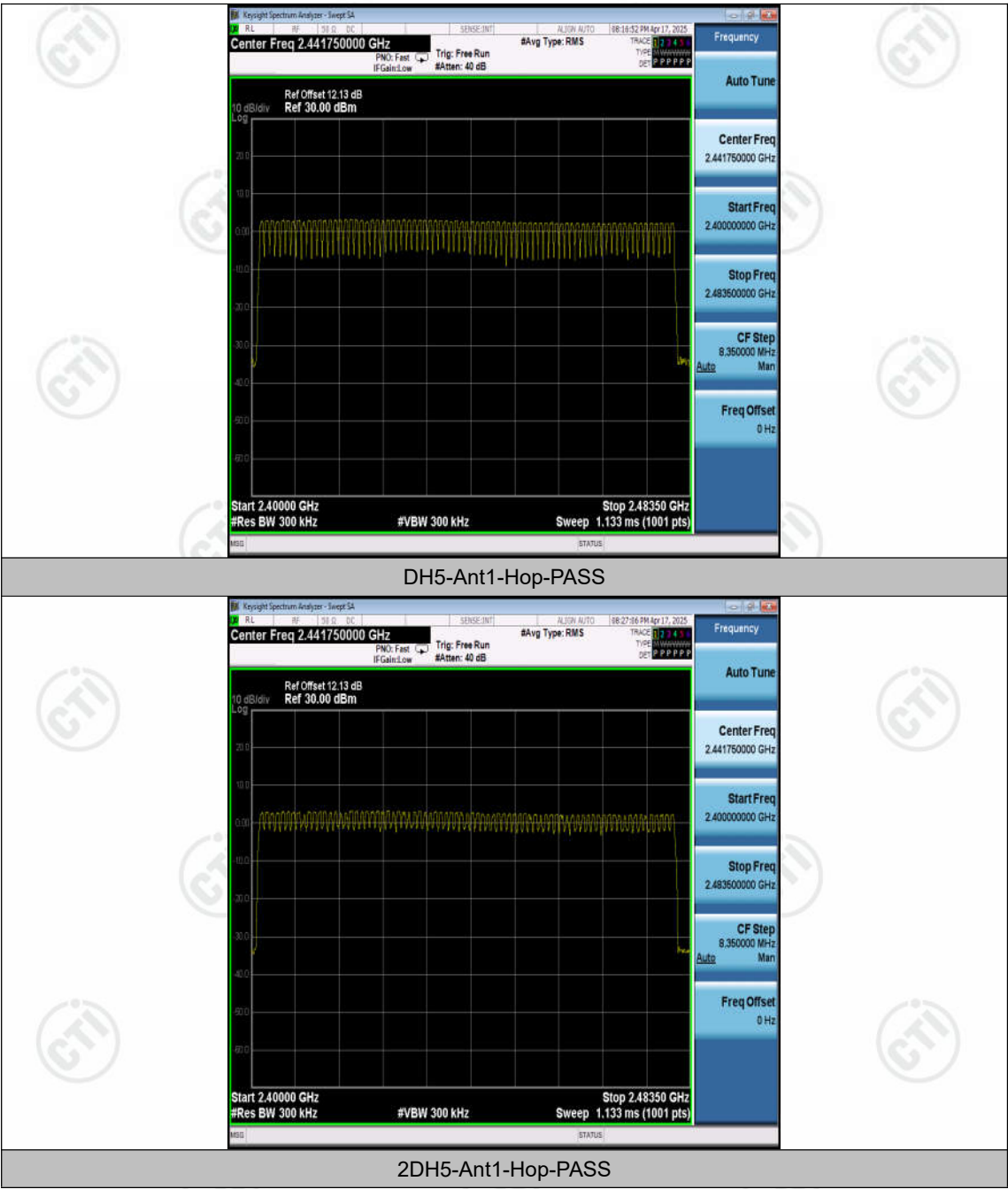


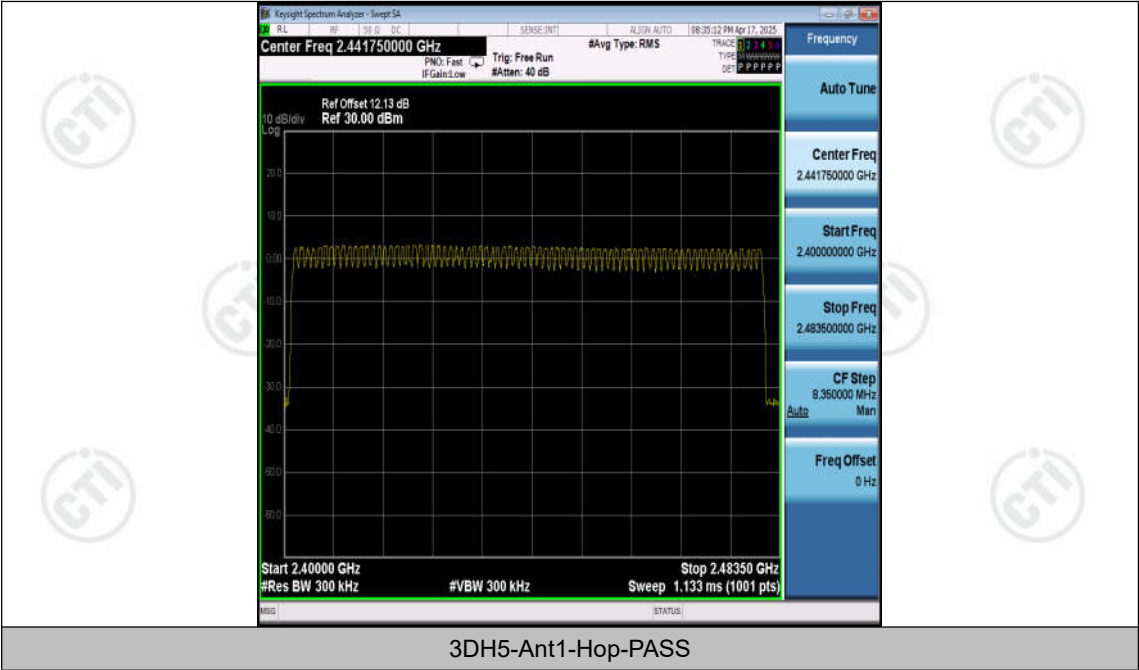
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



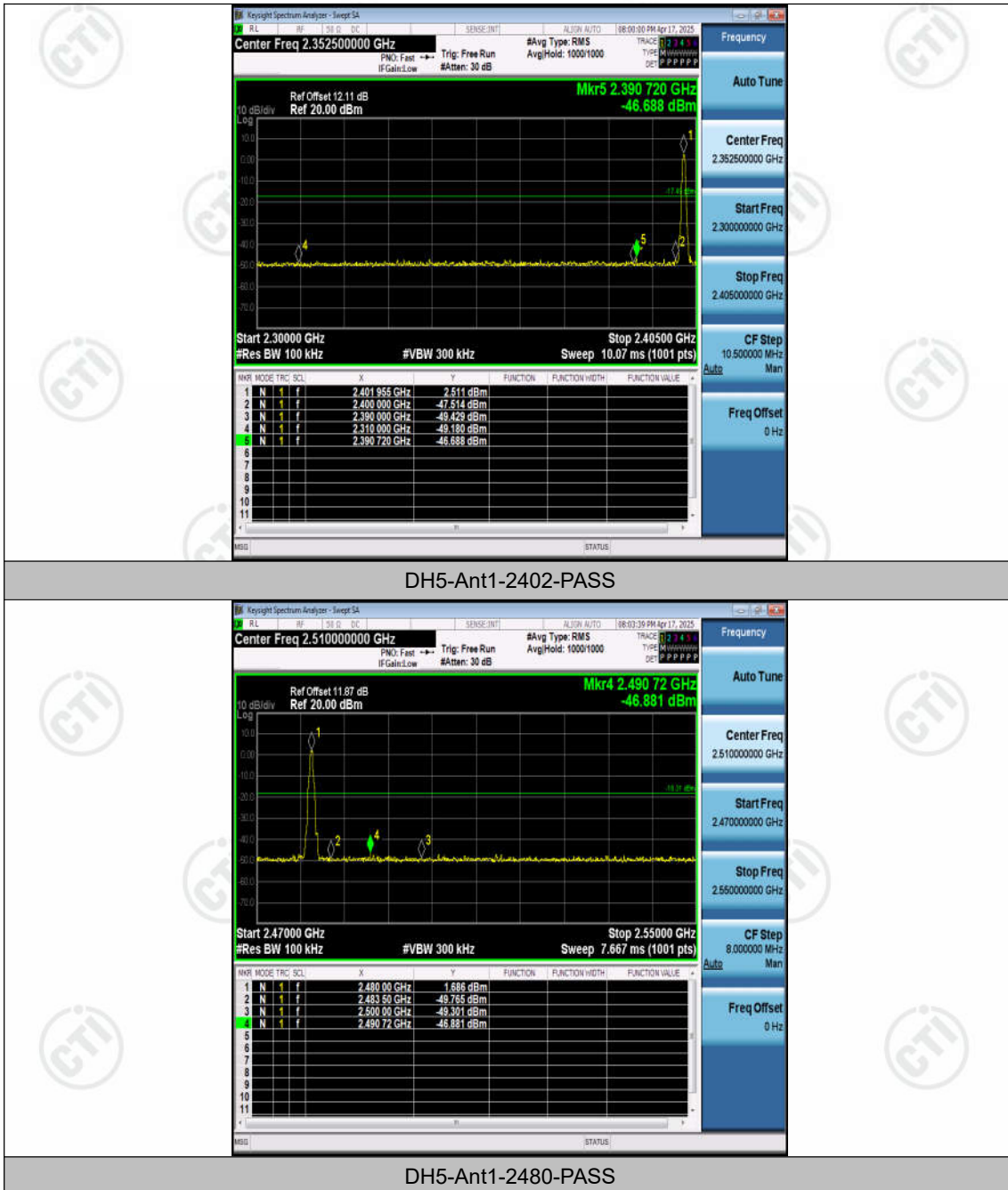


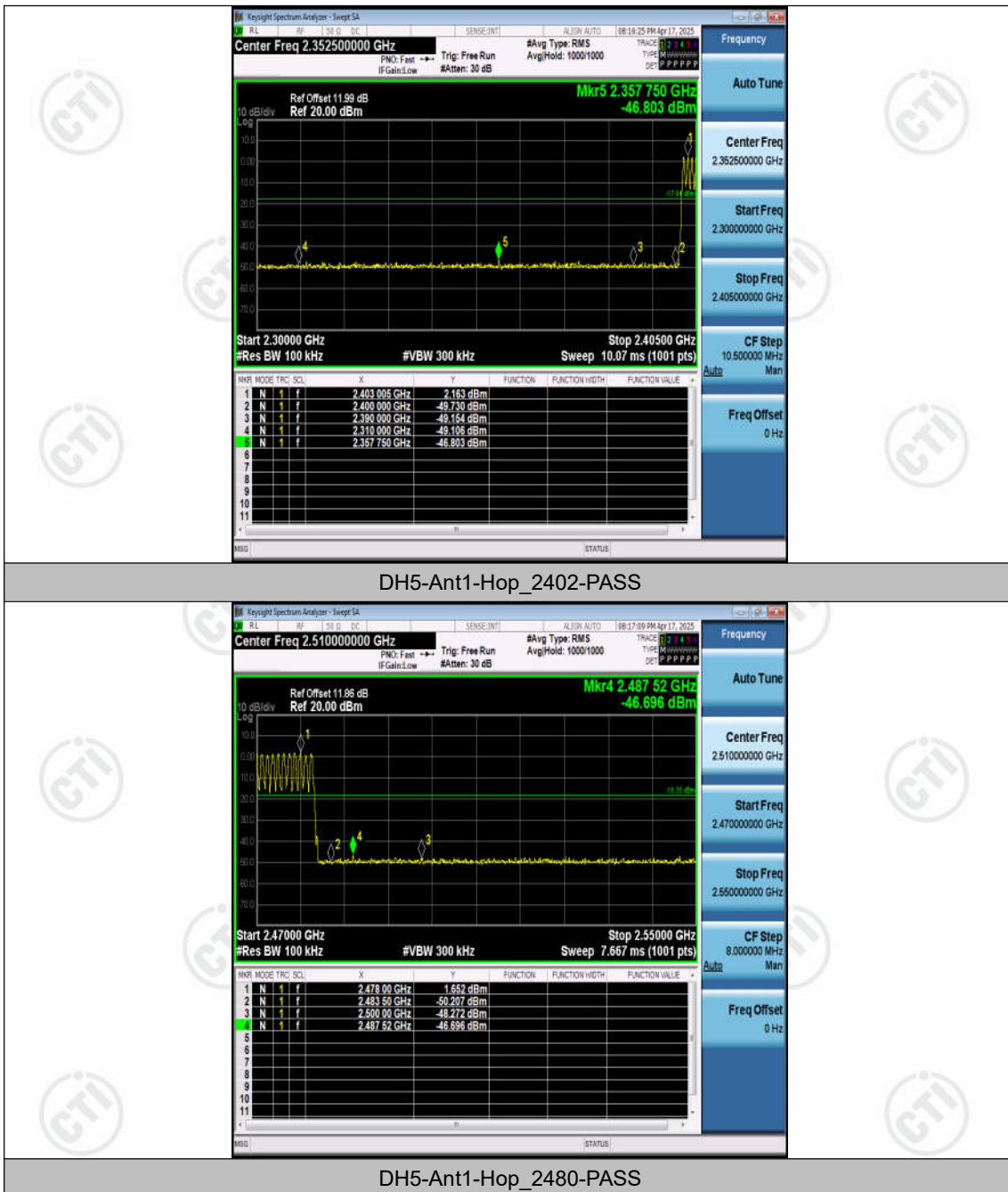
Appendix G: Band edge measurements

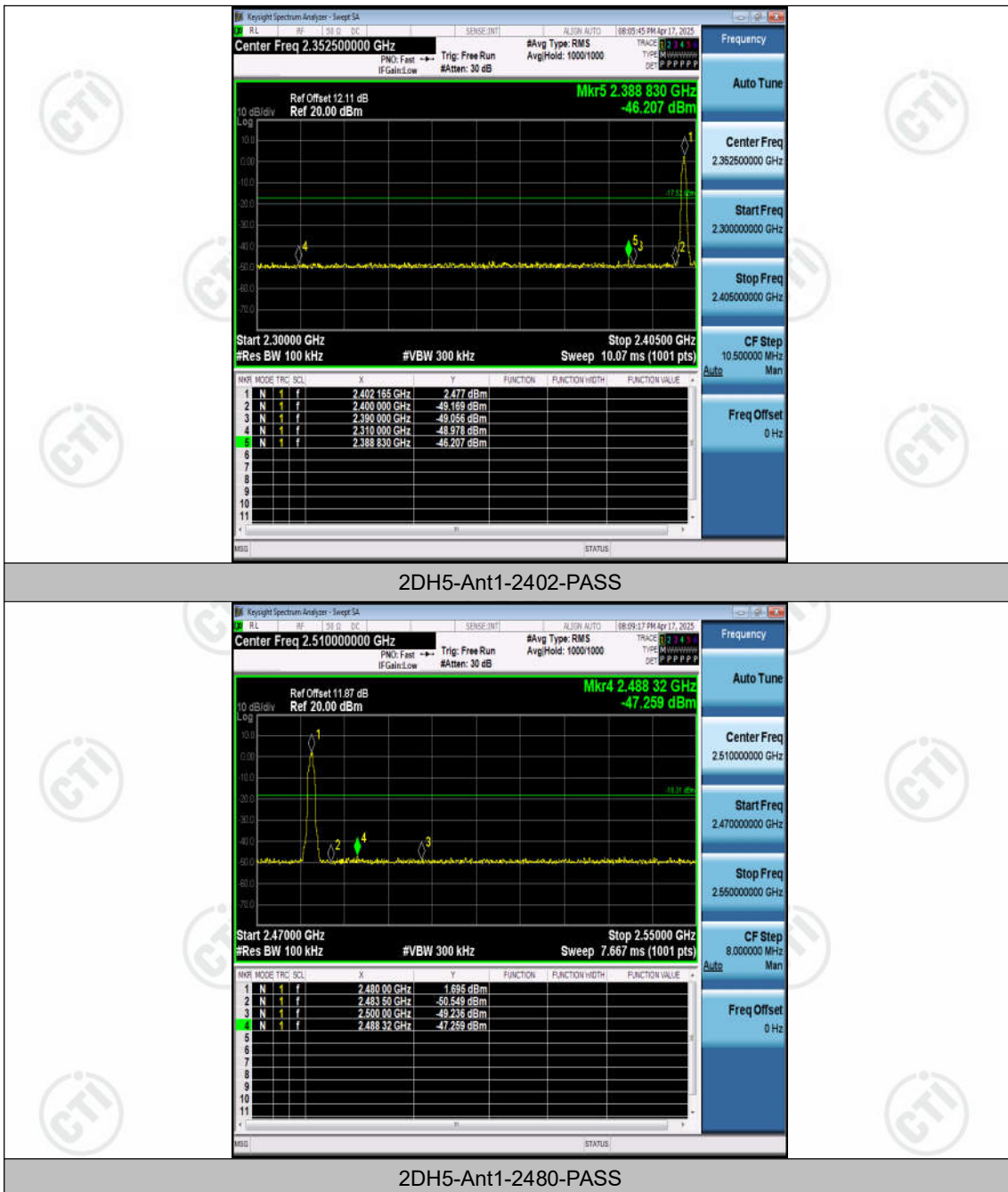
Test Result

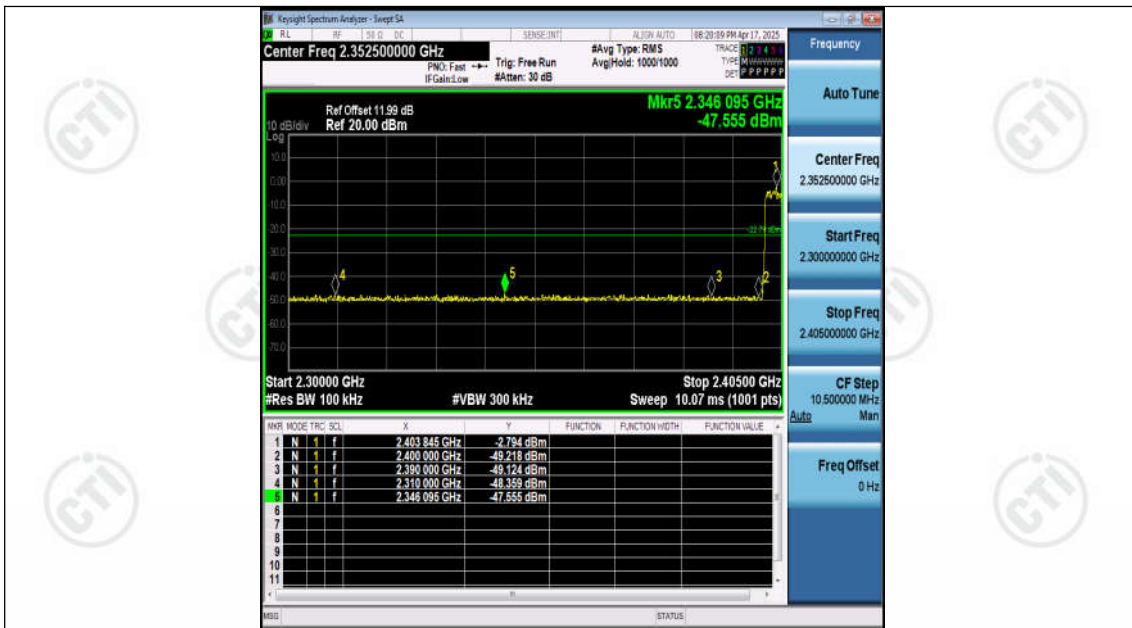
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.51	-46.69	≤-17.49	PASS
DH5	Ant1	High	2480	1.69	-46.88	≤-18.31	PASS
DH5	Ant1	Low	Hop_2402	2.16	-46.8	≤-17.84	PASS
DH5	Ant1	High	Hop_2480	1.65	-46.7	≤-18.35	PASS
2DH5	Ant1	Low	2402	2.48	-46.21	≤-17.52	PASS
2DH5	Ant1	High	2480	1.70	-47.26	≤-18.31	PASS
2DH5	Ant1	Low	Hop_2402	-2.79	-47.56	≤-22.79	PASS
2DH5	Ant1	High	Hop_2480	1.64	-46.61	≤-18.36	PASS
3DH5	Ant1	Low	2402	2.62	-46.17	≤-17.38	PASS
3DH5	Ant1	High	2480	1.63	-47.03	≤-18.37	PASS
3DH5	Ant1	Low	Hop_2402	2.33	-46.15	≤-17.67	PASS
3DH5	Ant1	High	Hop_2480	1.84	-37.07	≤-18.16	PASS

Test Graphs

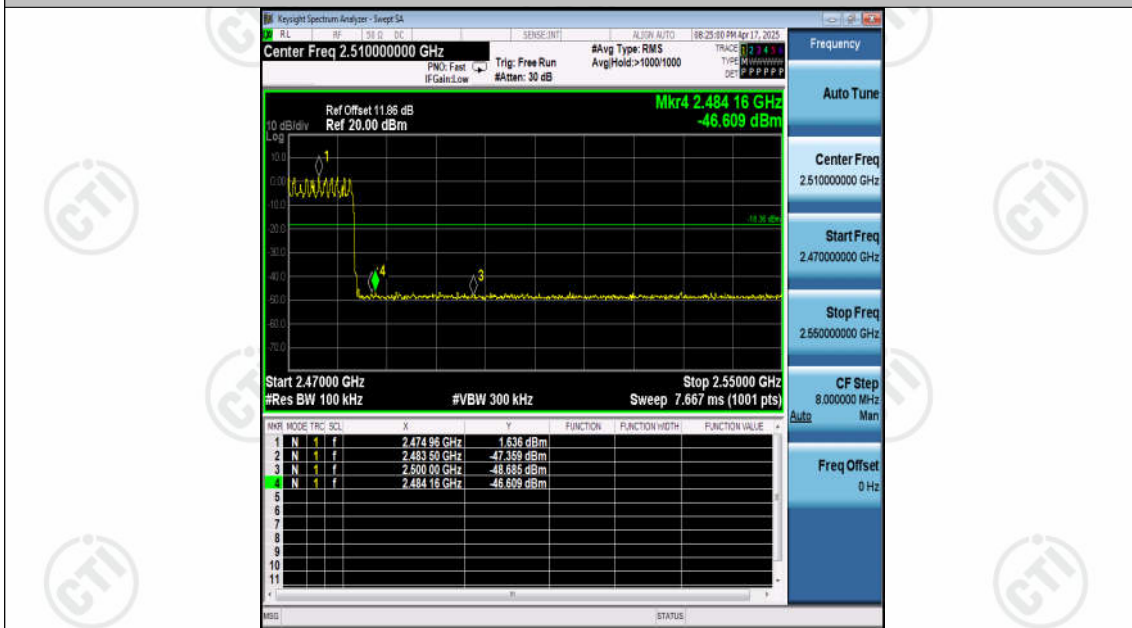




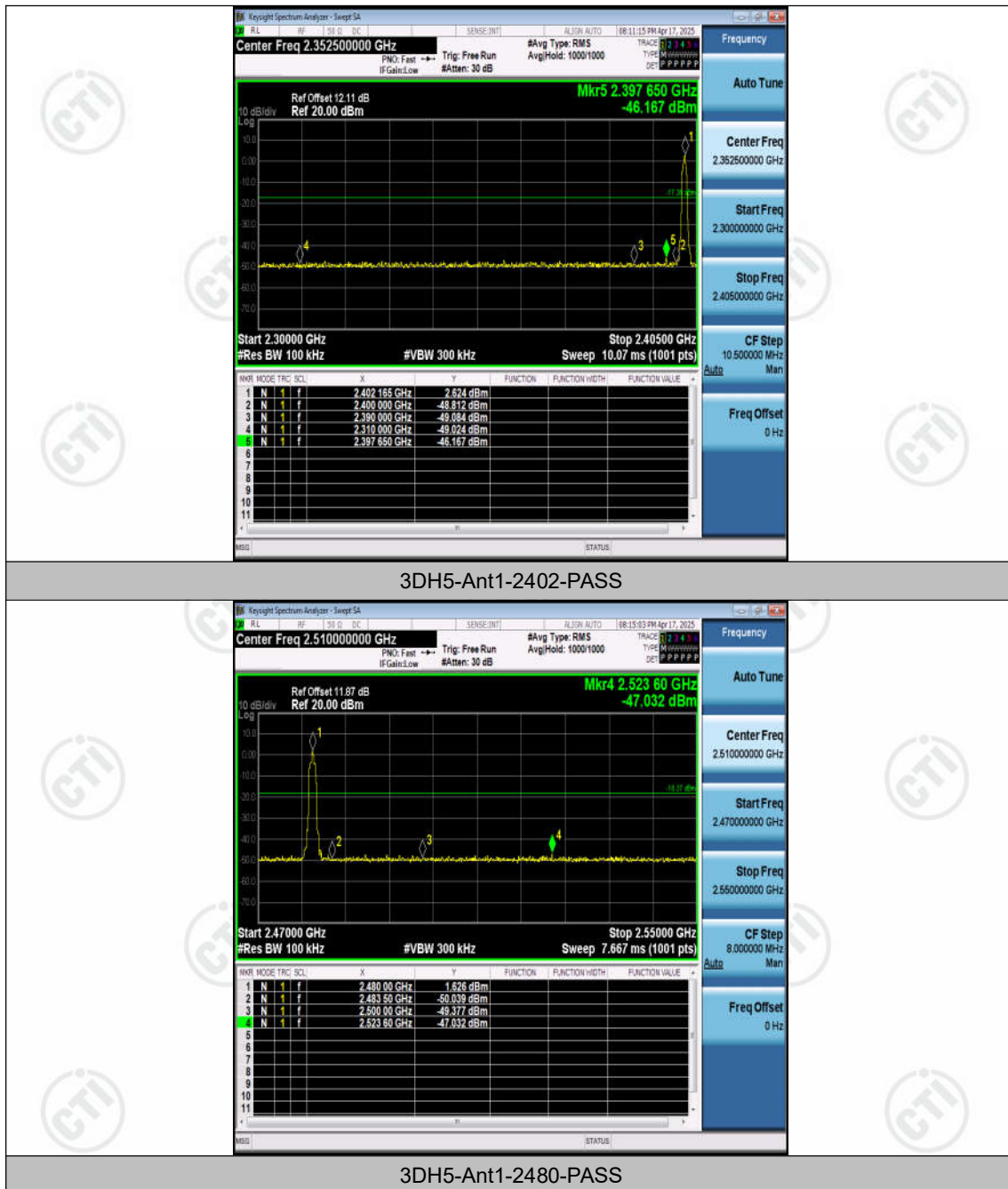


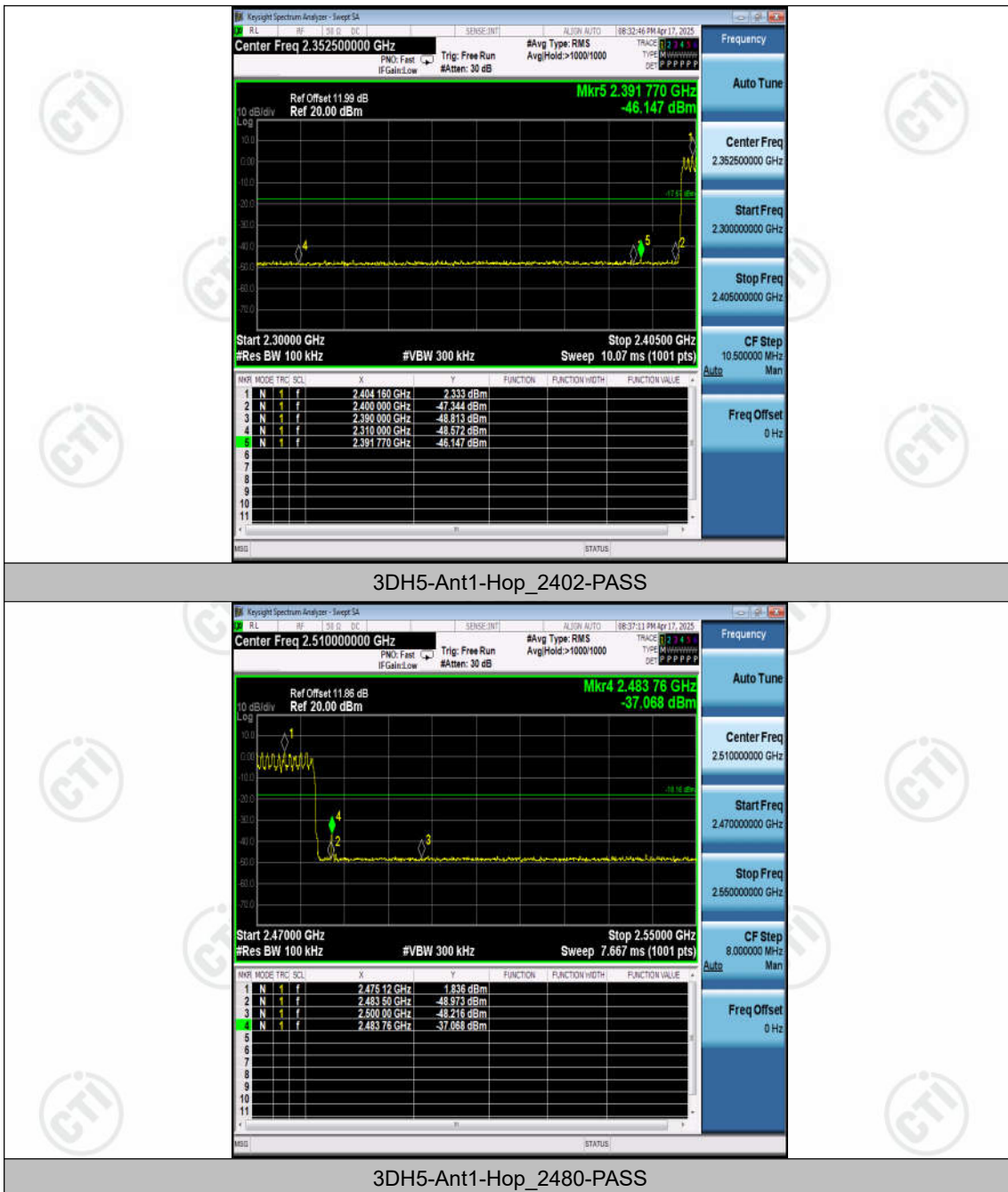


2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS



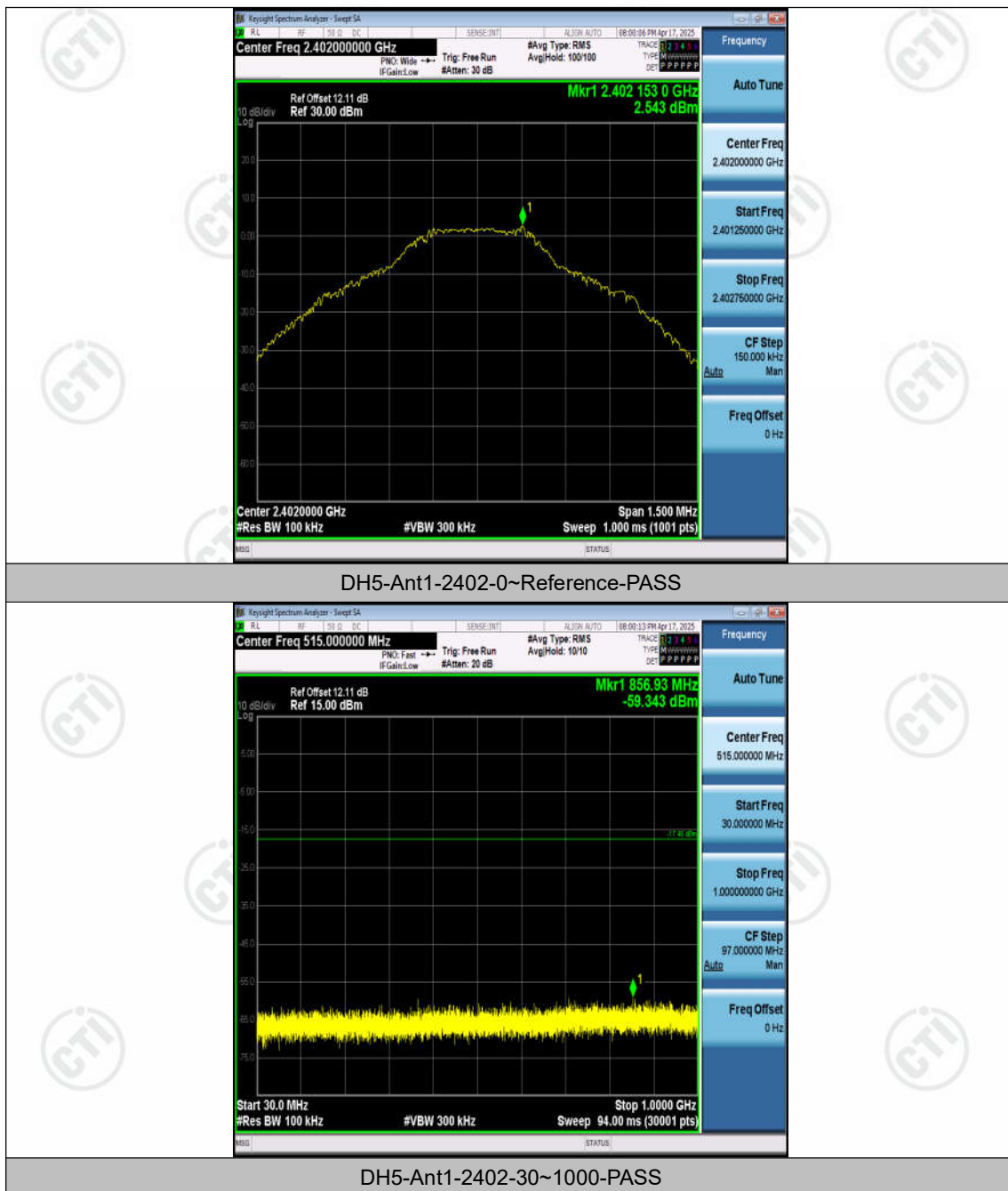


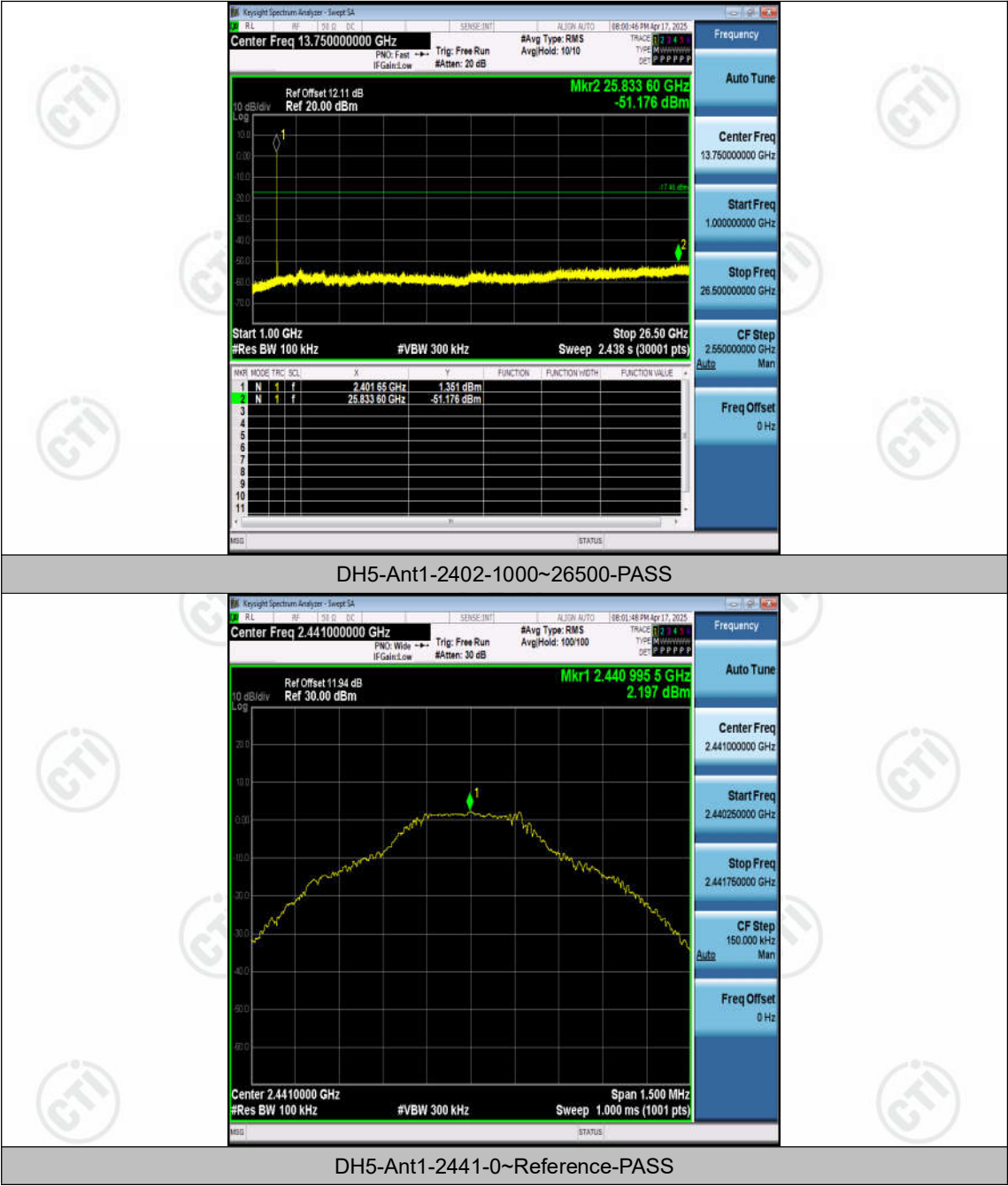
Appendix H: Conducted Spurious Emission

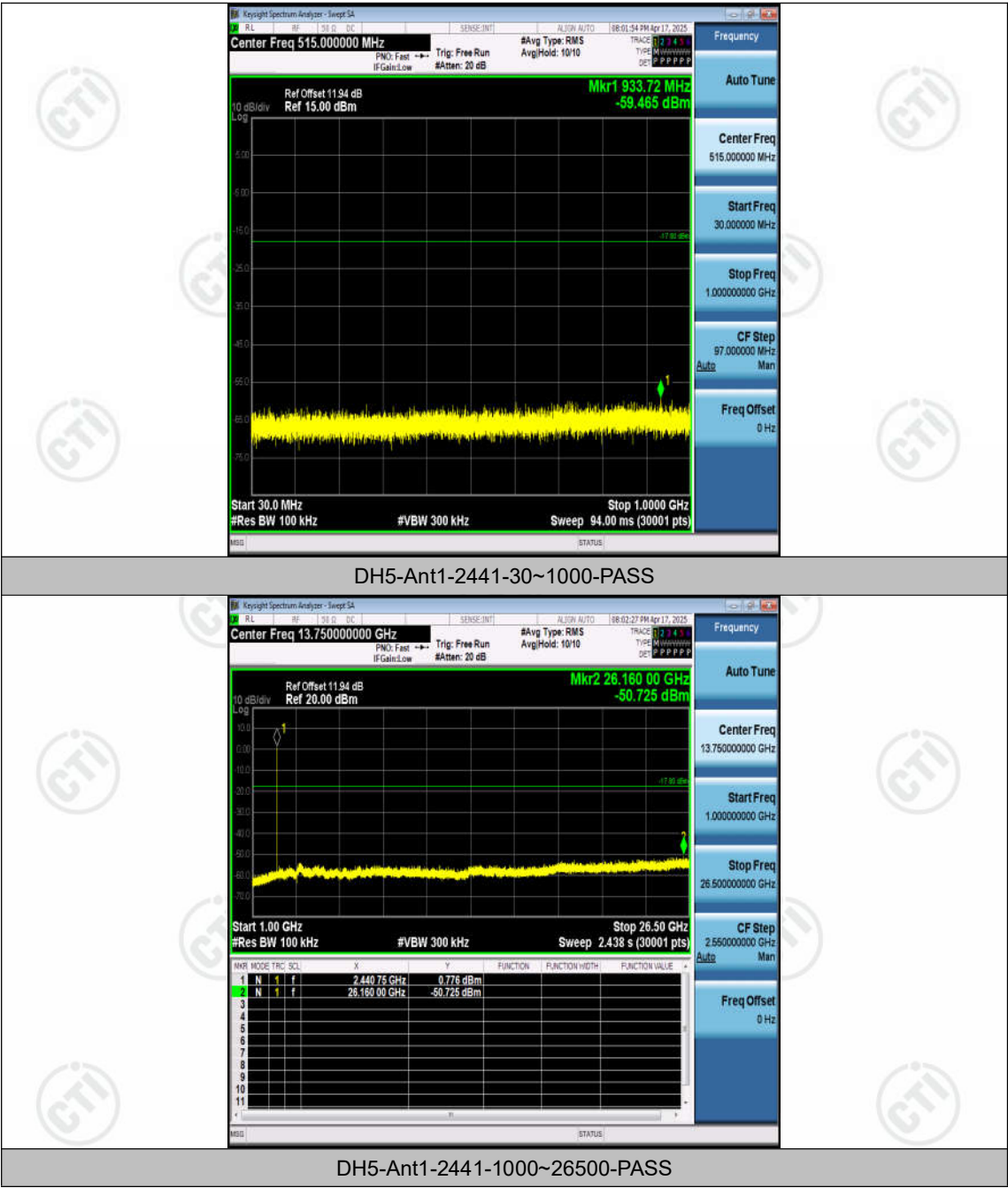
Test Result

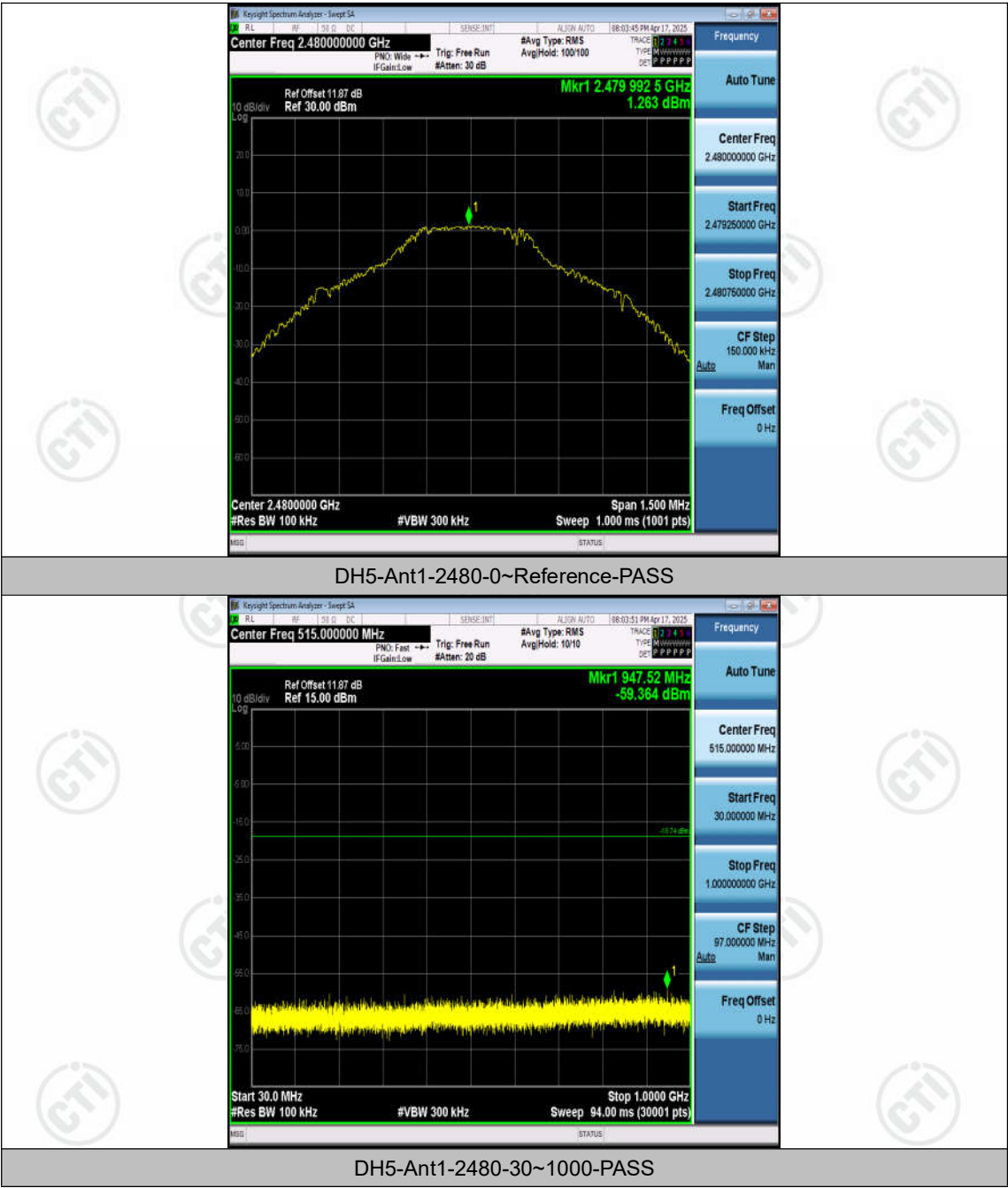
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	2.54	2.54	---	PASS
DH5	Ant1	2402	30~1000	2.54	-59.34	≤-17.46	PASS
DH5	Ant1	2402	1000~26500	2.54	-51.18	≤-17.46	PASS
DH5	Ant1	2441	0~Reference	2.20	2.20	---	PASS
DH5	Ant1	2441	30~1000	2.20	-59.47	≤-17.8	PASS
DH5	Ant1	2441	1000~26500	2.20	-50.73	≤-17.8	PASS
DH5	Ant1	2480	0~Reference	1.26	1.26	---	PASS
DH5	Ant1	2480	30~1000	1.26	-59.36	≤-18.74	PASS
DH5	Ant1	2480	1000~26500	1.26	-51.3	≤-18.74	PASS
2DH5	Ant1	2402	0~Reference	1.72	1.72	---	PASS
2DH5	Ant1	2402	30~1000	1.72	-58.88	≤-18.28	PASS
2DH5	Ant1	2402	1000~26500	1.72	-51.57	≤-18.28	PASS
2DH5	Ant1	2441	0~Reference	2.20	2.20	---	PASS
2DH5	Ant1	2441	30~1000	2.20	-58.57	≤-17.8	PASS
2DH5	Ant1	2441	1000~26500	2.20	-51.54	≤-17.8	PASS
2DH5	Ant1	2480	0~Reference	1.59	1.59	---	PASS
2DH5	Ant1	2480	30~1000	1.59	-59.62	≤-18.41	PASS
2DH5	Ant1	2480	1000~26500	1.59	-50.84	≤-18.41	PASS
3DH5	Ant1	2402	0~Reference	2.44	2.44	---	PASS
3DH5	Ant1	2402	30~1000	2.44	-59.79	≤-17.56	PASS
3DH5	Ant1	2402	1000~26500	2.44	-50.75	≤-17.56	PASS
3DH5	Ant1	2441	0~Reference	1.78	1.78	---	PASS
3DH5	Ant1	2441	30~1000	1.78	-59.23	≤-18.22	PASS
3DH5	Ant1	2441	1000~26500	1.78	-51.32	≤-18.22	PASS
3DH5	Ant1	2480	0~Reference	0.95	0.95	---	PASS
3DH5	Ant1	2480	30~1000	0.95	-59.52	≤-19.05	PASS
3DH5	Ant1	2480	1000~26500	0.95	-51.39	≤-19.05	PASS

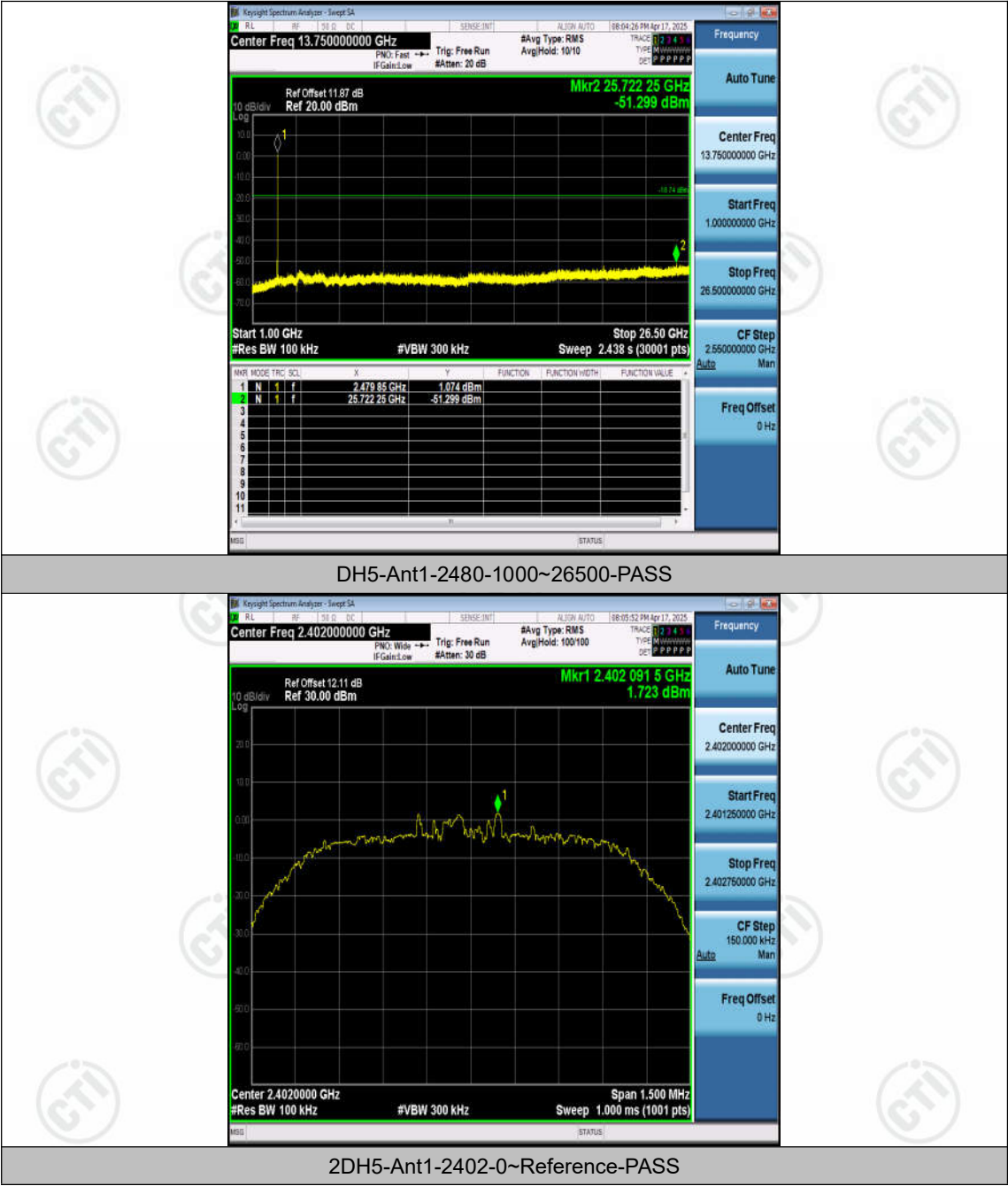
Test Graphs

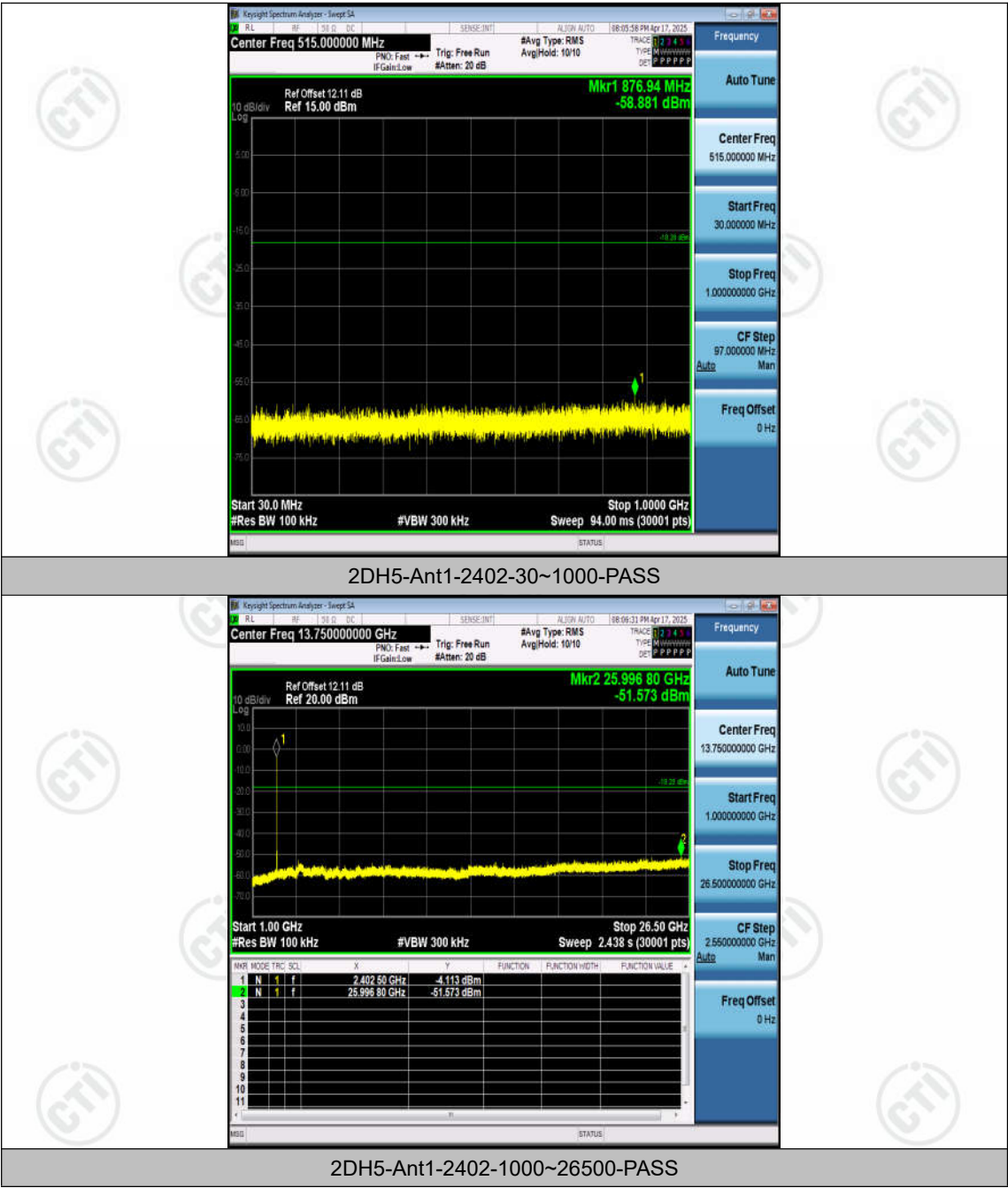


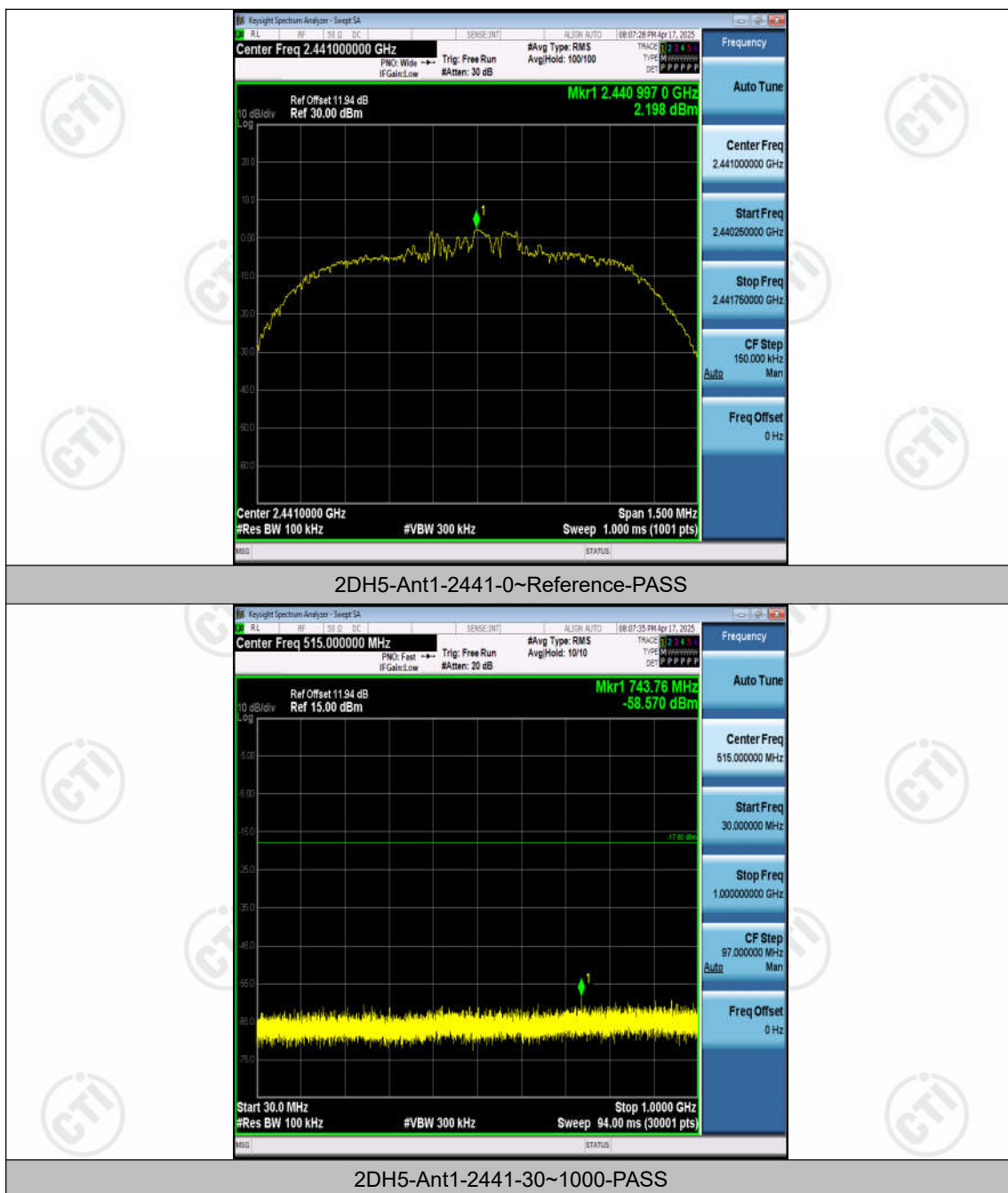


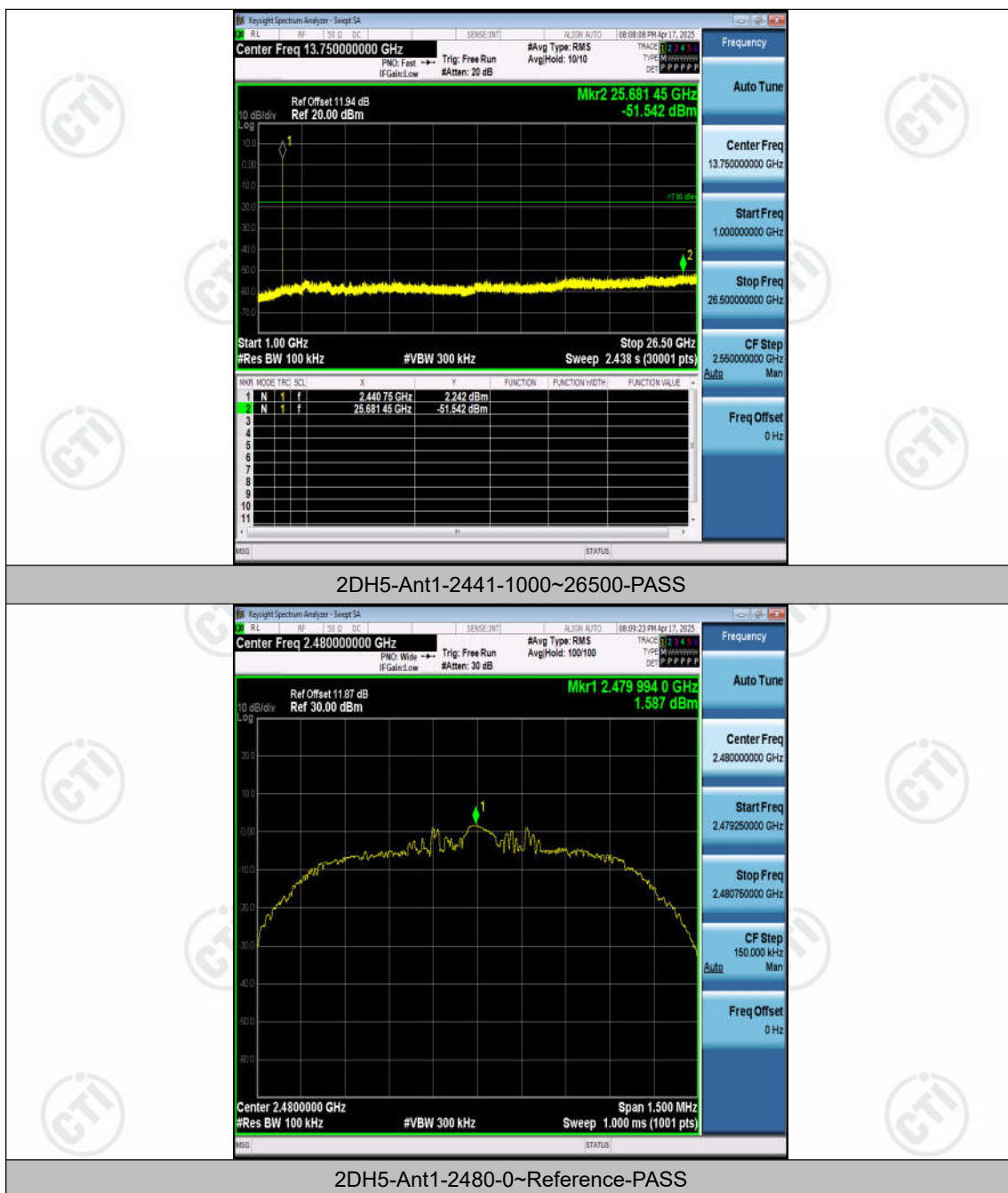


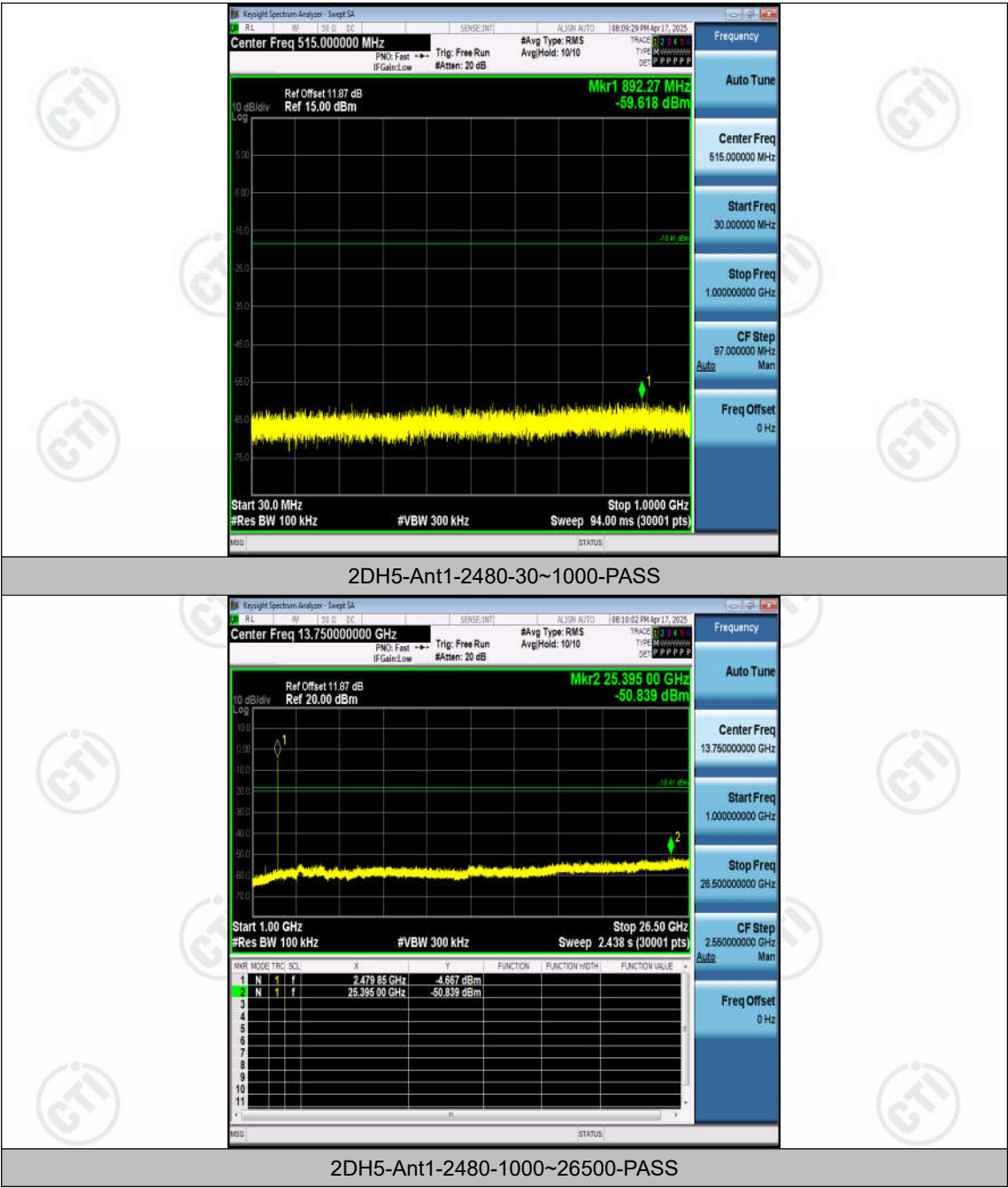


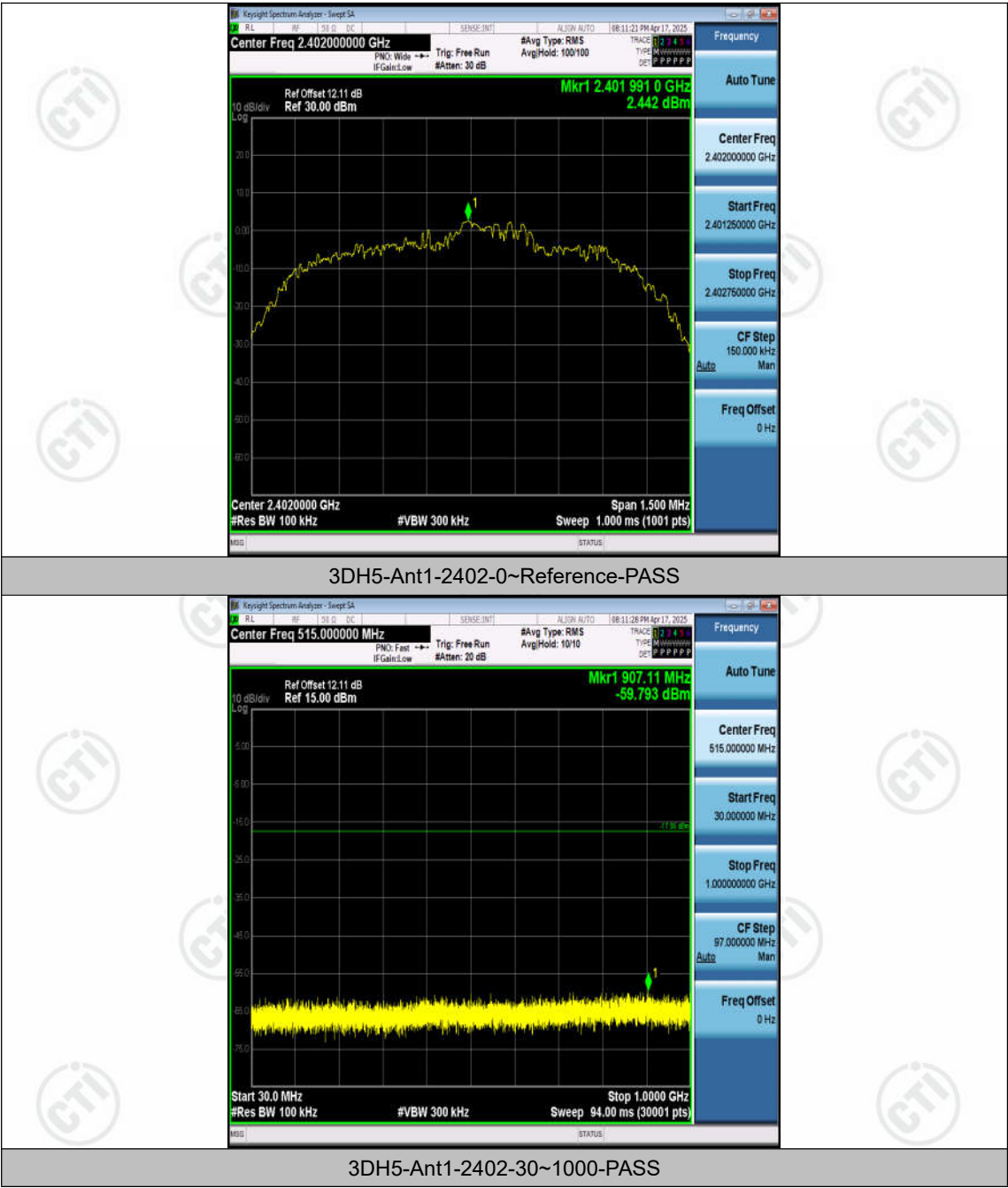


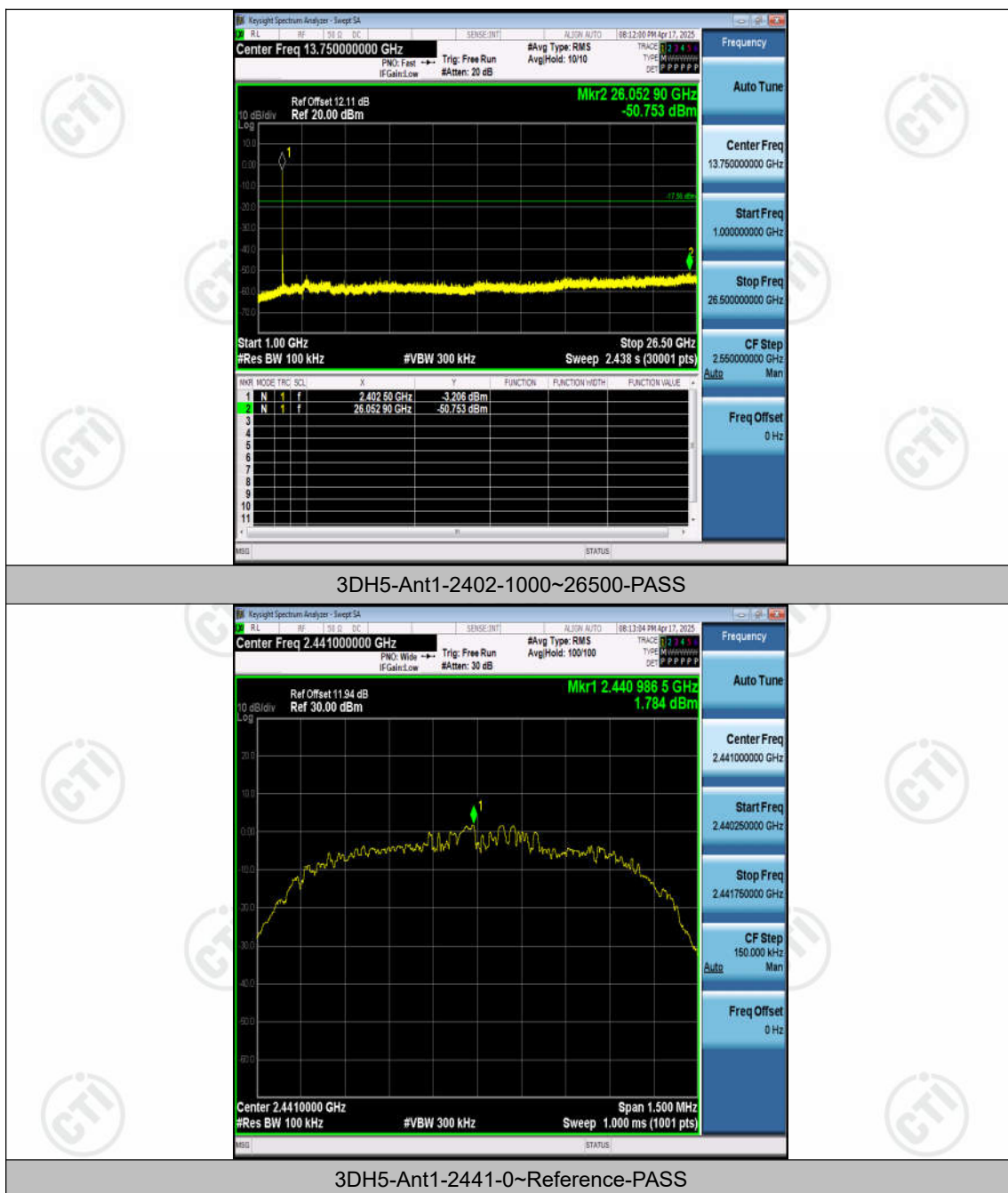


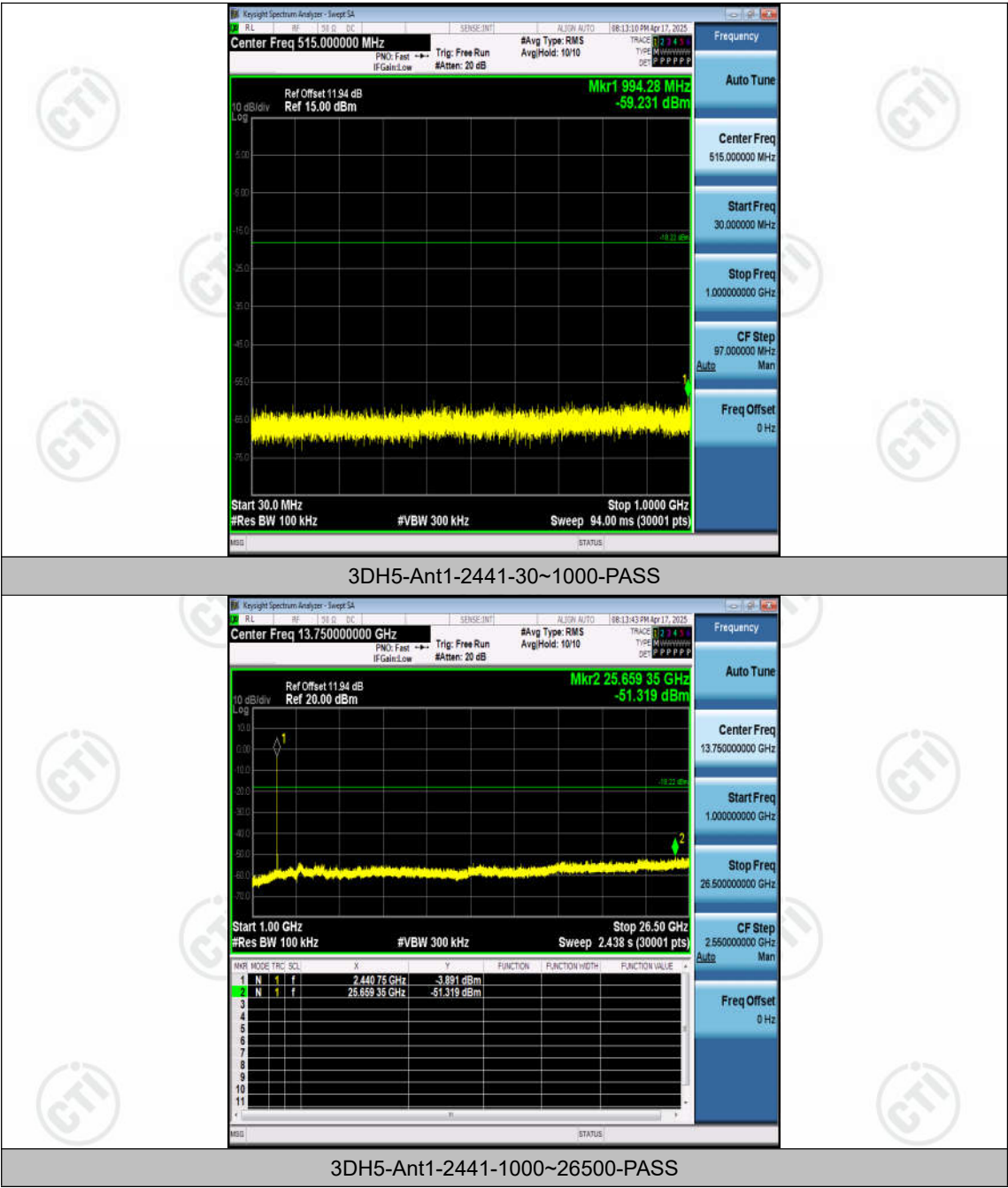


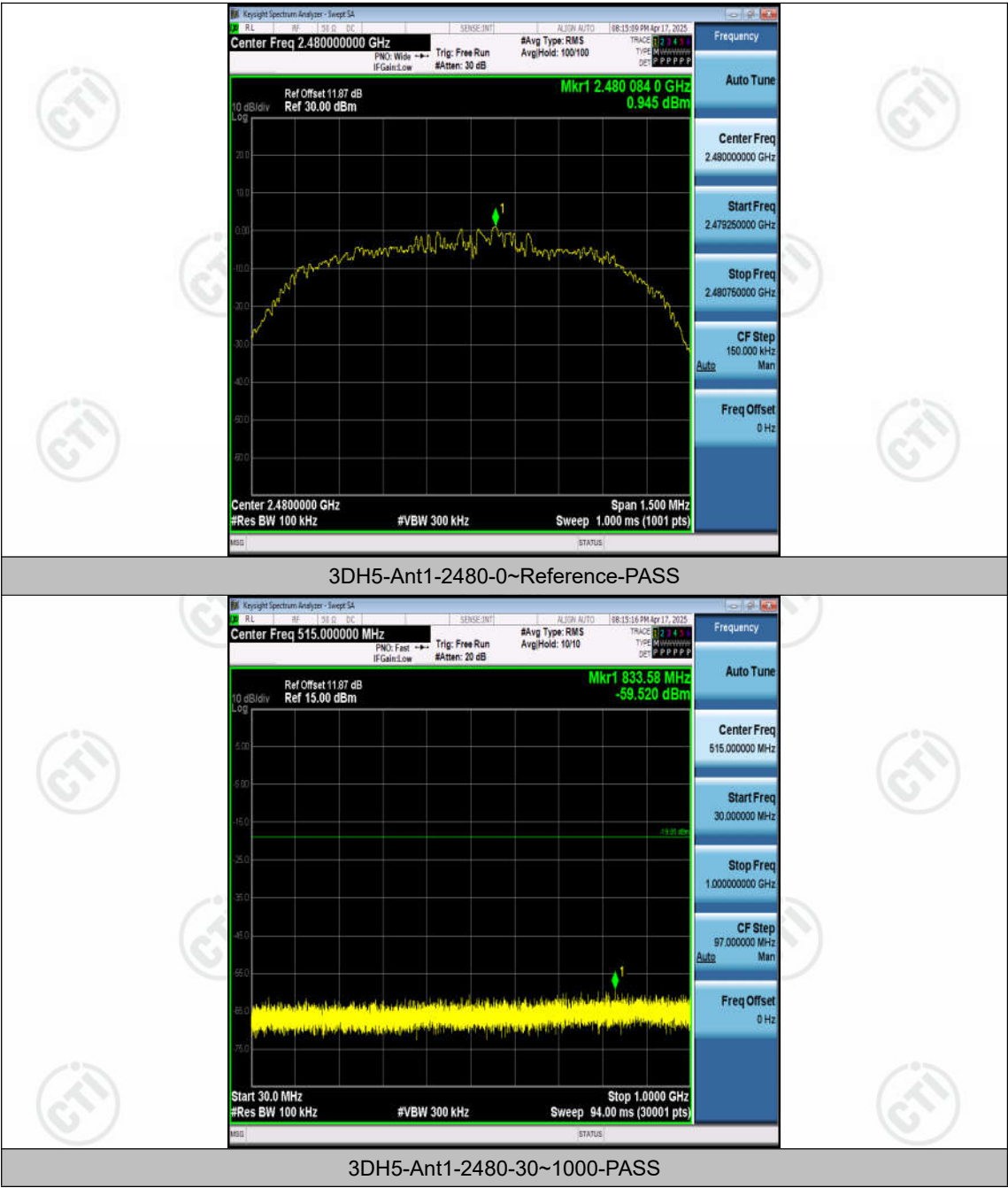


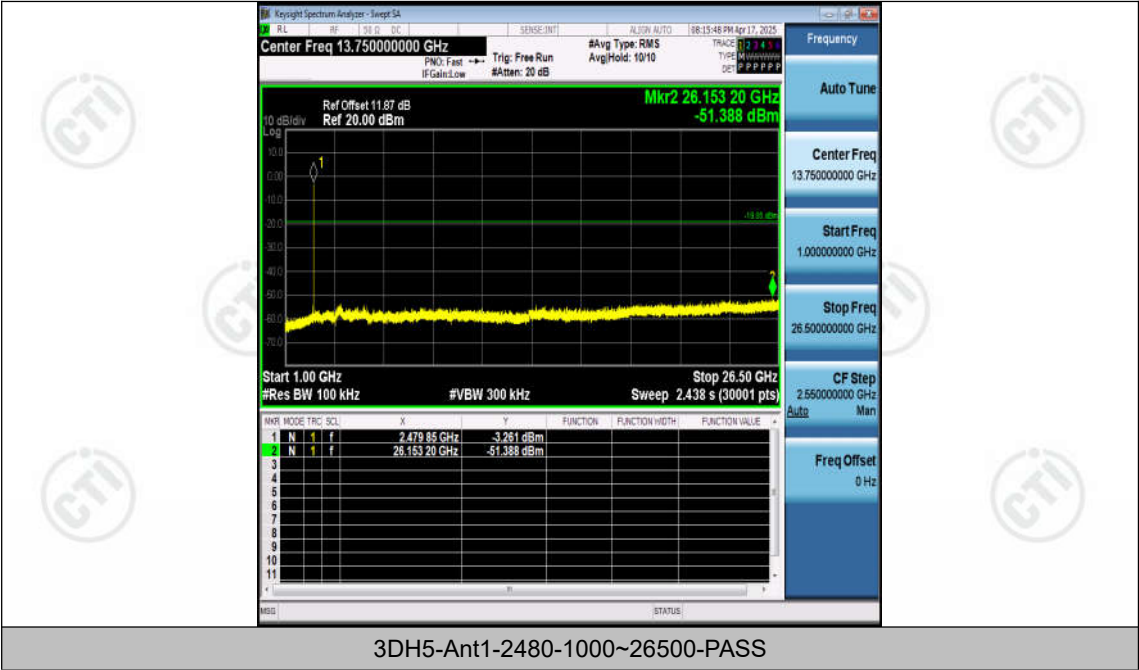












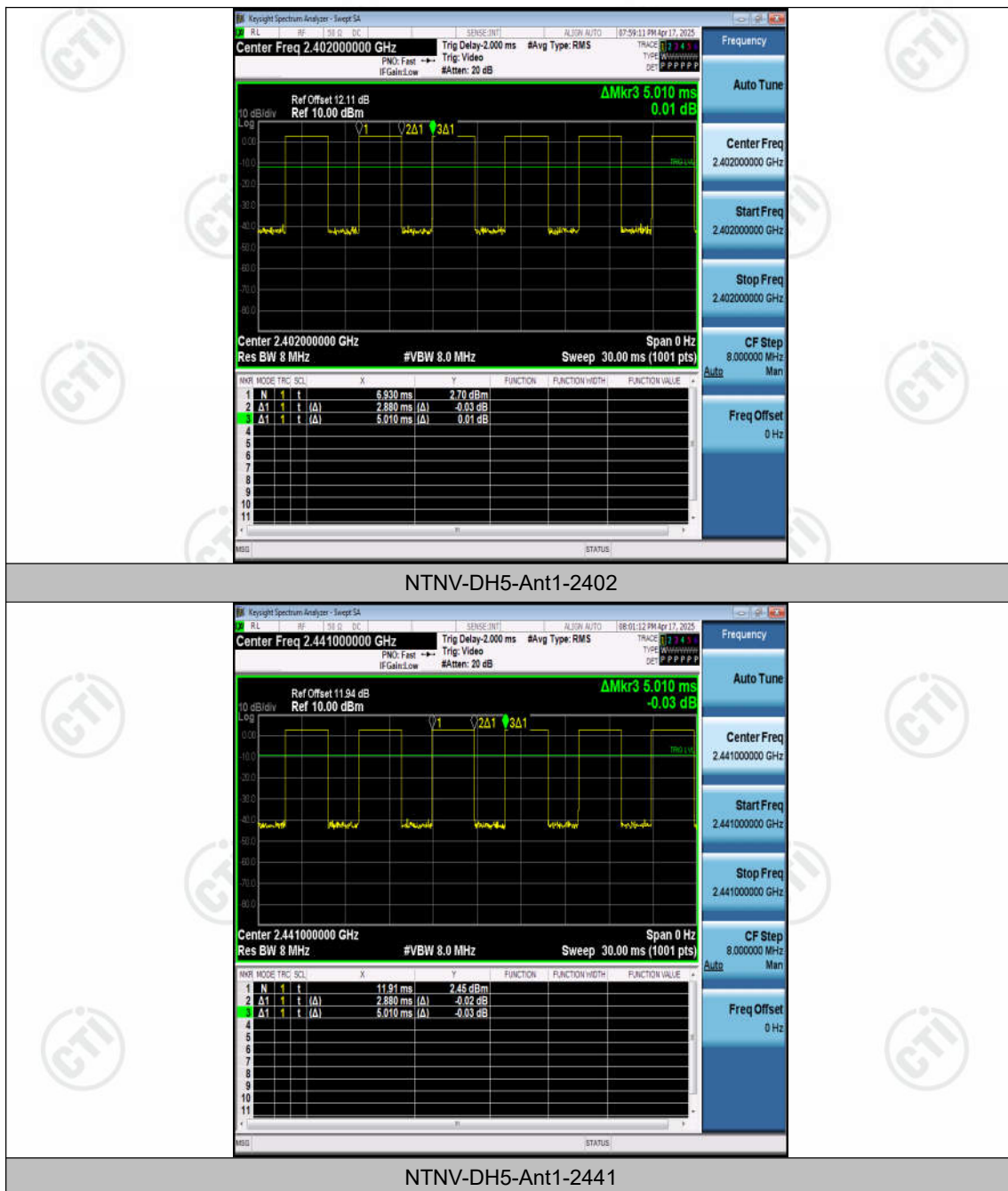
3DH5-Ant1-2480-1000~26500-PASS

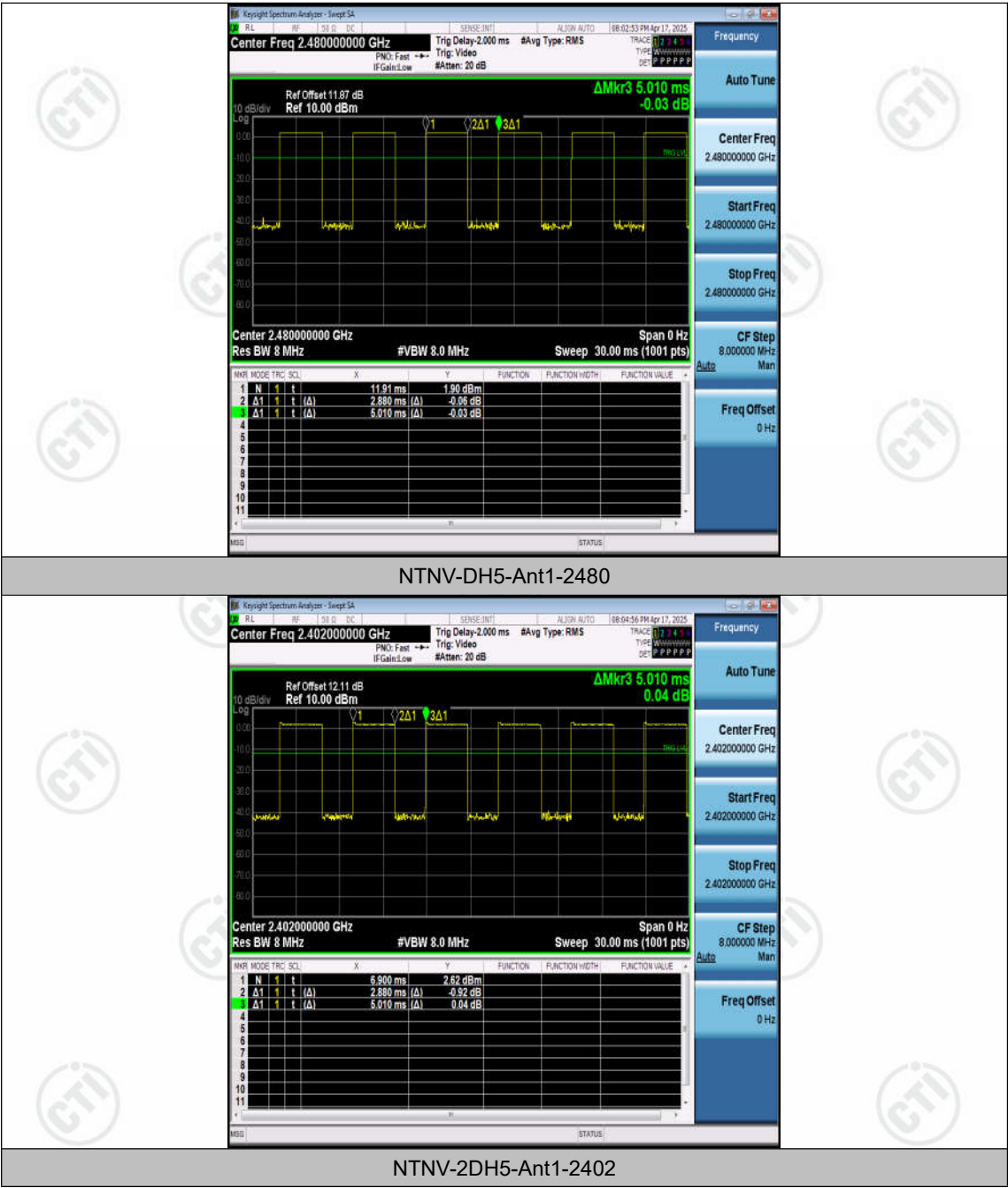
Appendix I: Duty Cycle

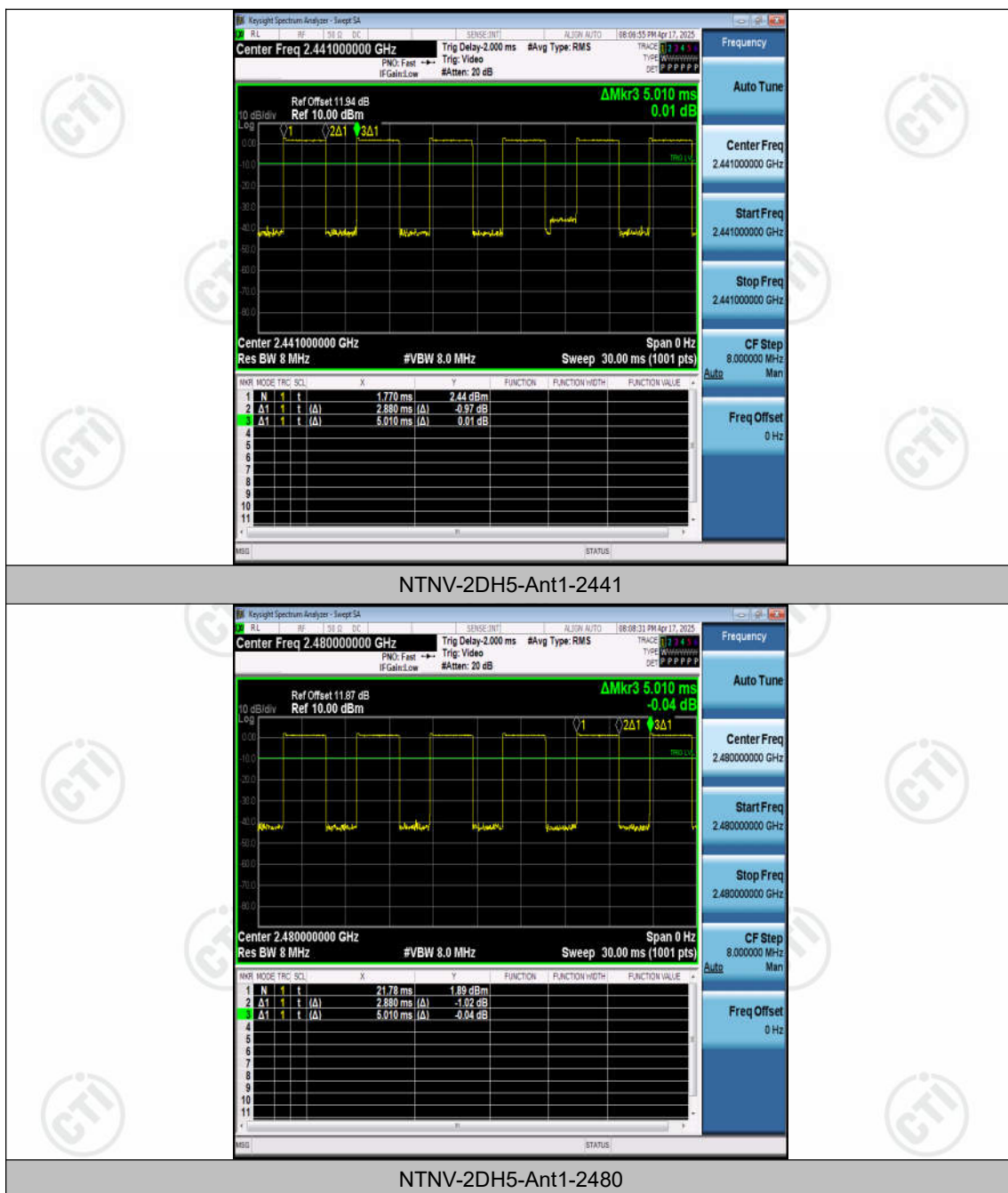
Test Result

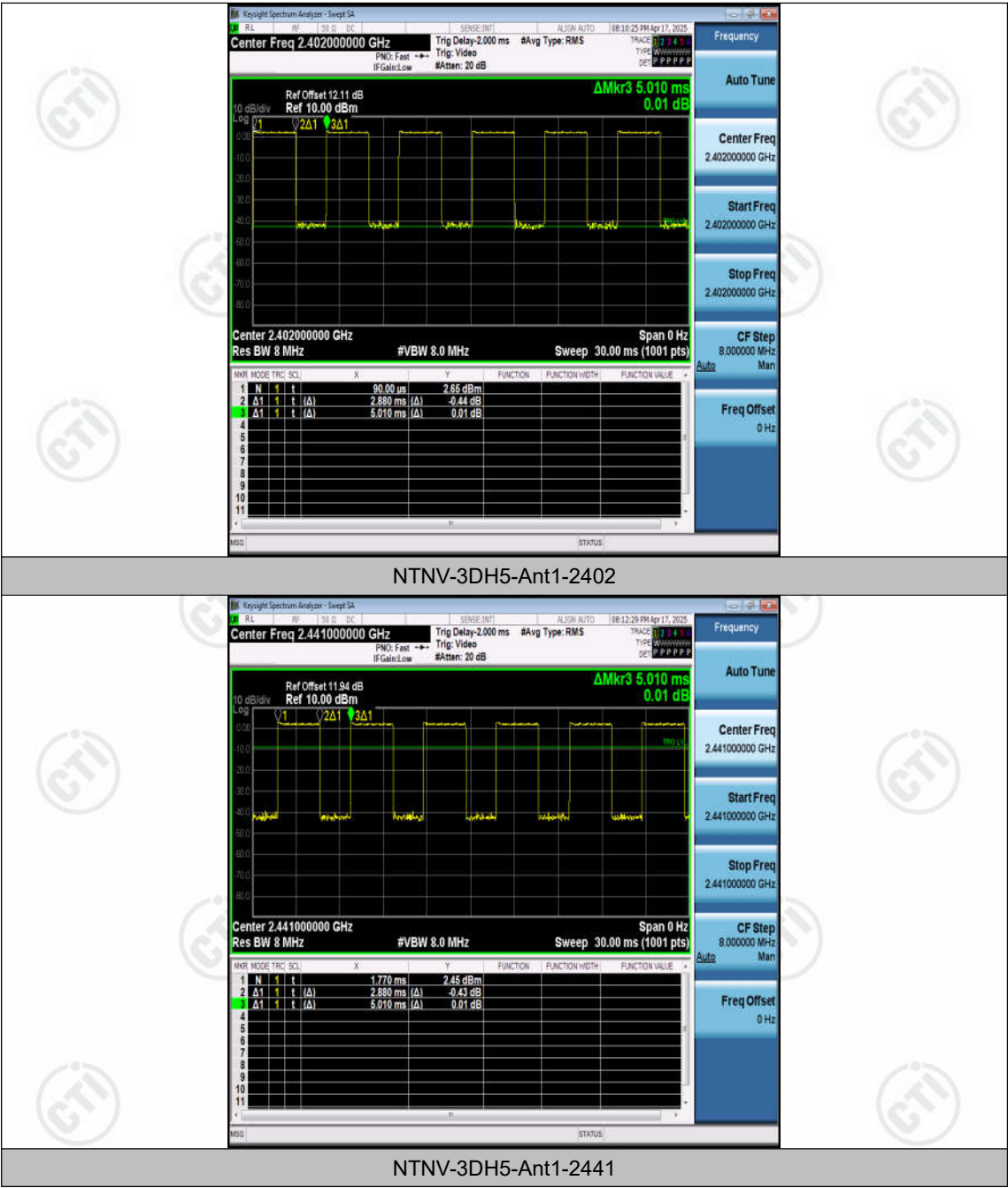
TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	5.01	57.49	2.40
DH5	Ant1	2441	2.88	5.01	57.49	2.40
DH5	Ant1	2480	2.88	5.01	57.49	2.40
2DH5	Ant1	2402	2.88	5.01	57.49	2.40
2DH5	Ant1	2441	2.88	5.01	57.49	2.40
2DH5	Ant1	2480	2.88	5.01	57.49	2.40
3DH5	Ant1	2402	2.88	5.01	57.49	2.40
3DH5	Ant1	2441	2.88	5.01	57.49	2.40
3DH5	Ant1	2480	2.88	5.01	57.49	2.40

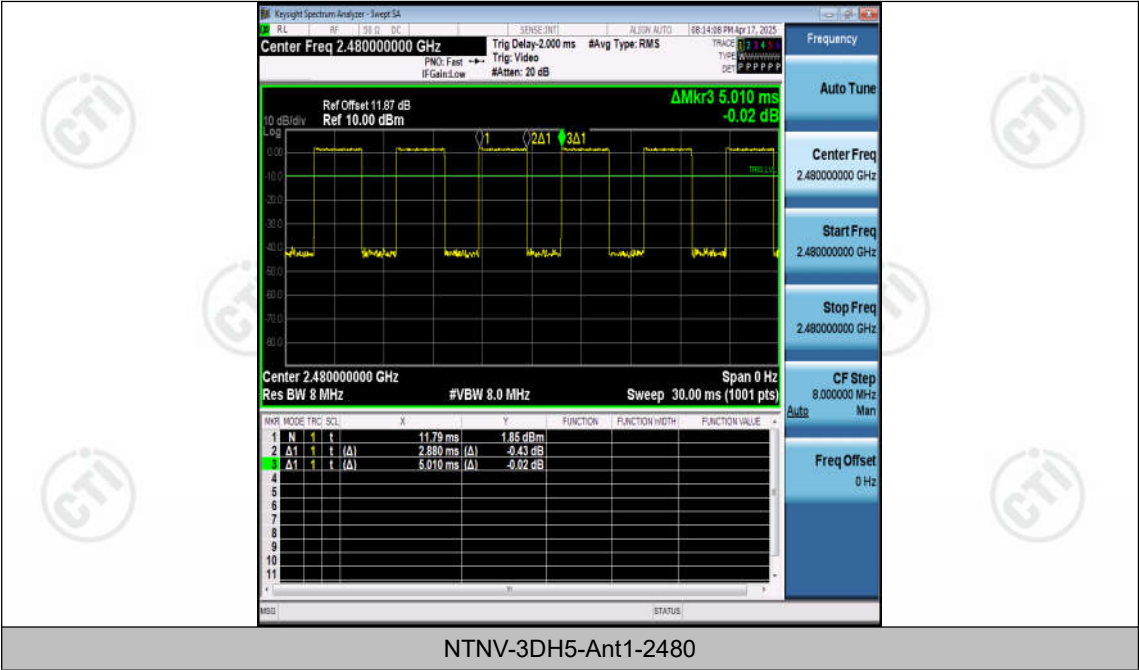
Test Graphs











*** End of Report ***