

Appendix: Bluetooth Classic

Contents

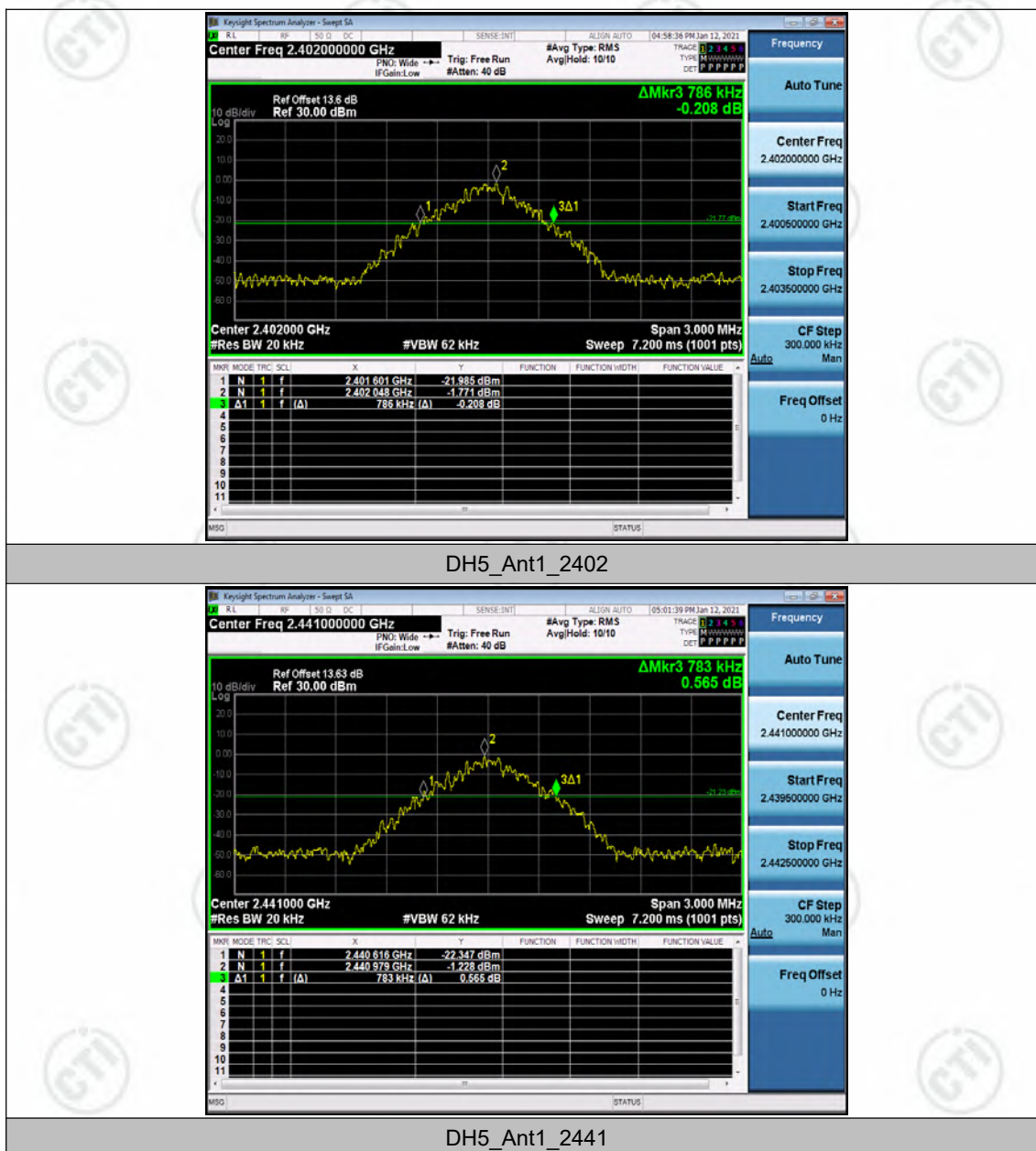
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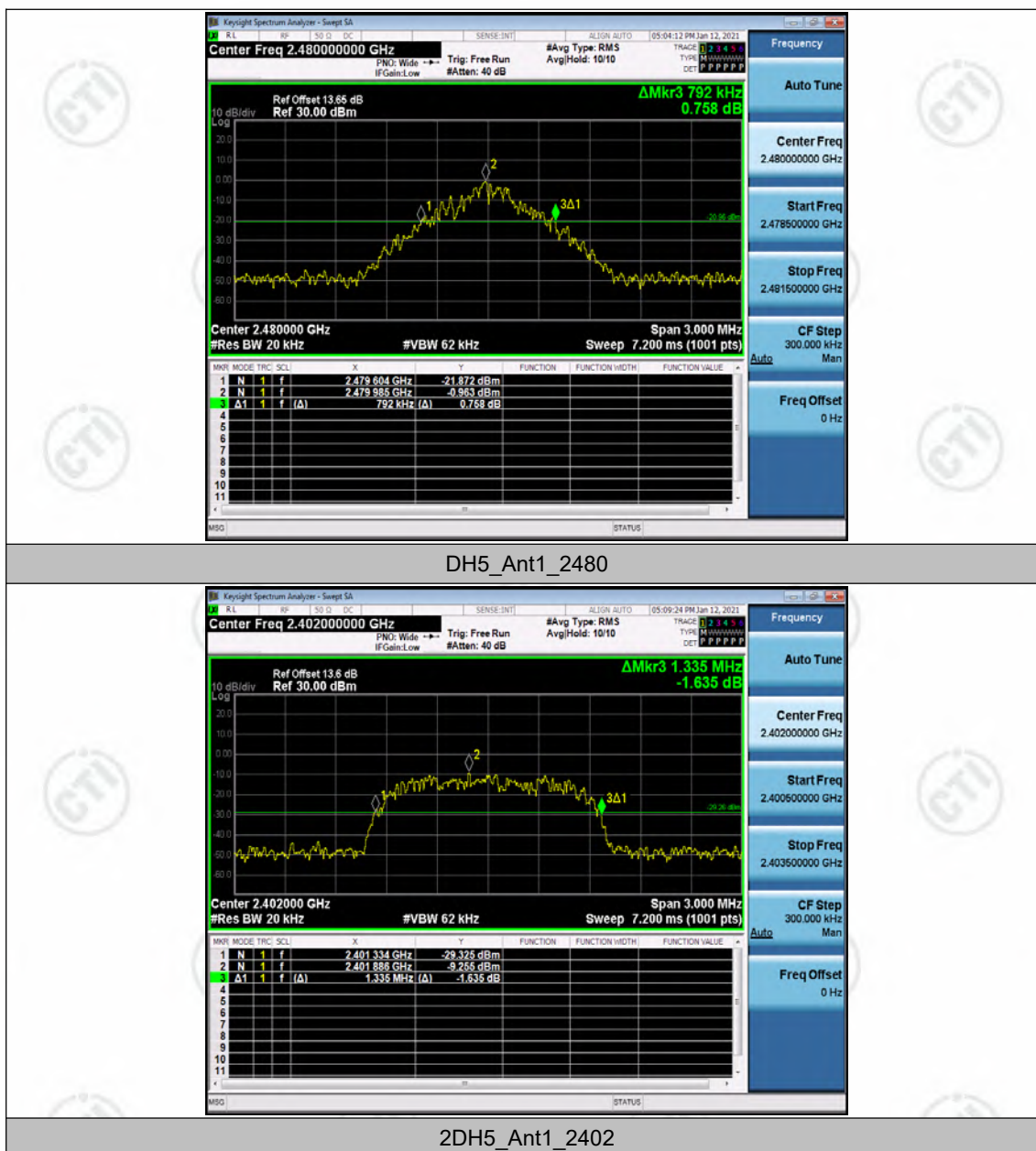
Appendix A: 20dBEmission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.786	2401.601	2402.387	---	PASS
		2441	0.783	2440.616	2441.399	---	PASS
		2480	0.792	2479.604	2480.396	---	PASS
2DH5	Ant1	2402	1.335	2401.334	2402.669	---	PASS
		2441	1.335	2440.328	2441.663	---	PASS
		2480	1.287	2479.361	2480.648	---	PASS
3DH5	Ant1	2402	1.263	2401.361	2402.624	---	PASS
		2441	1.326	2440.328	2441.654	---	PASS
		2480	1.260	2479.364	2480.624	---	PASS

Test Graphs



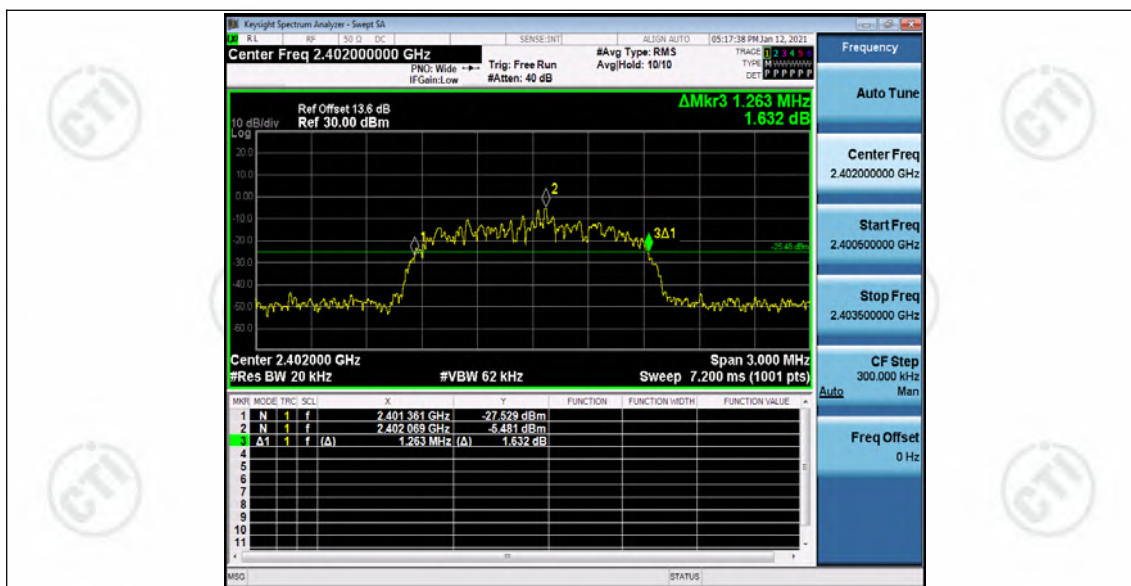




2DH5_Ant1_2441



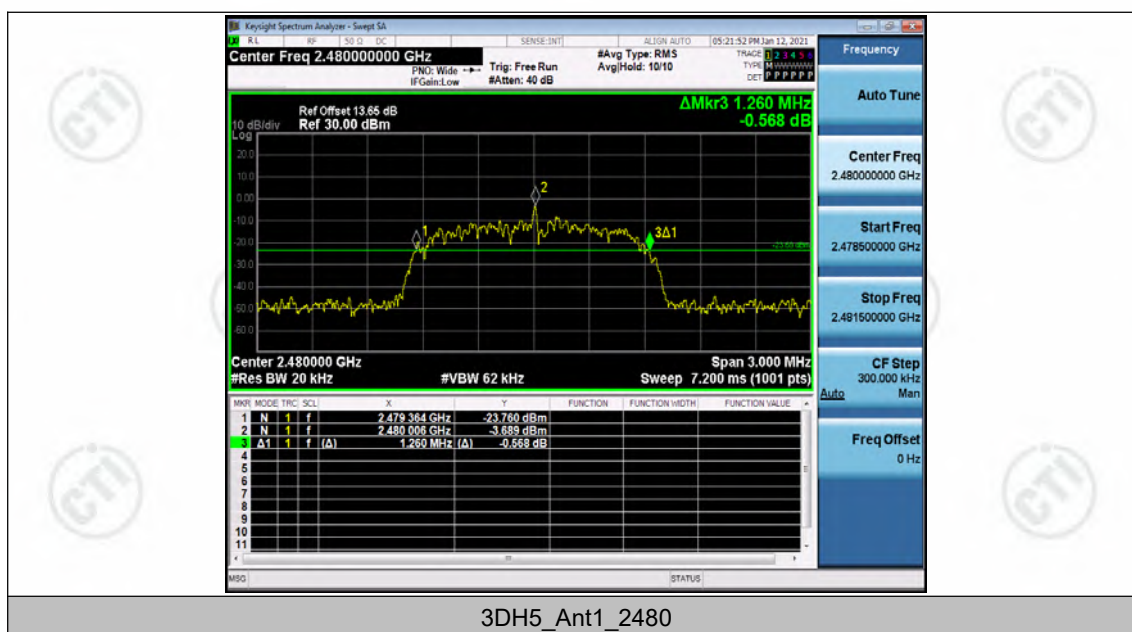
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

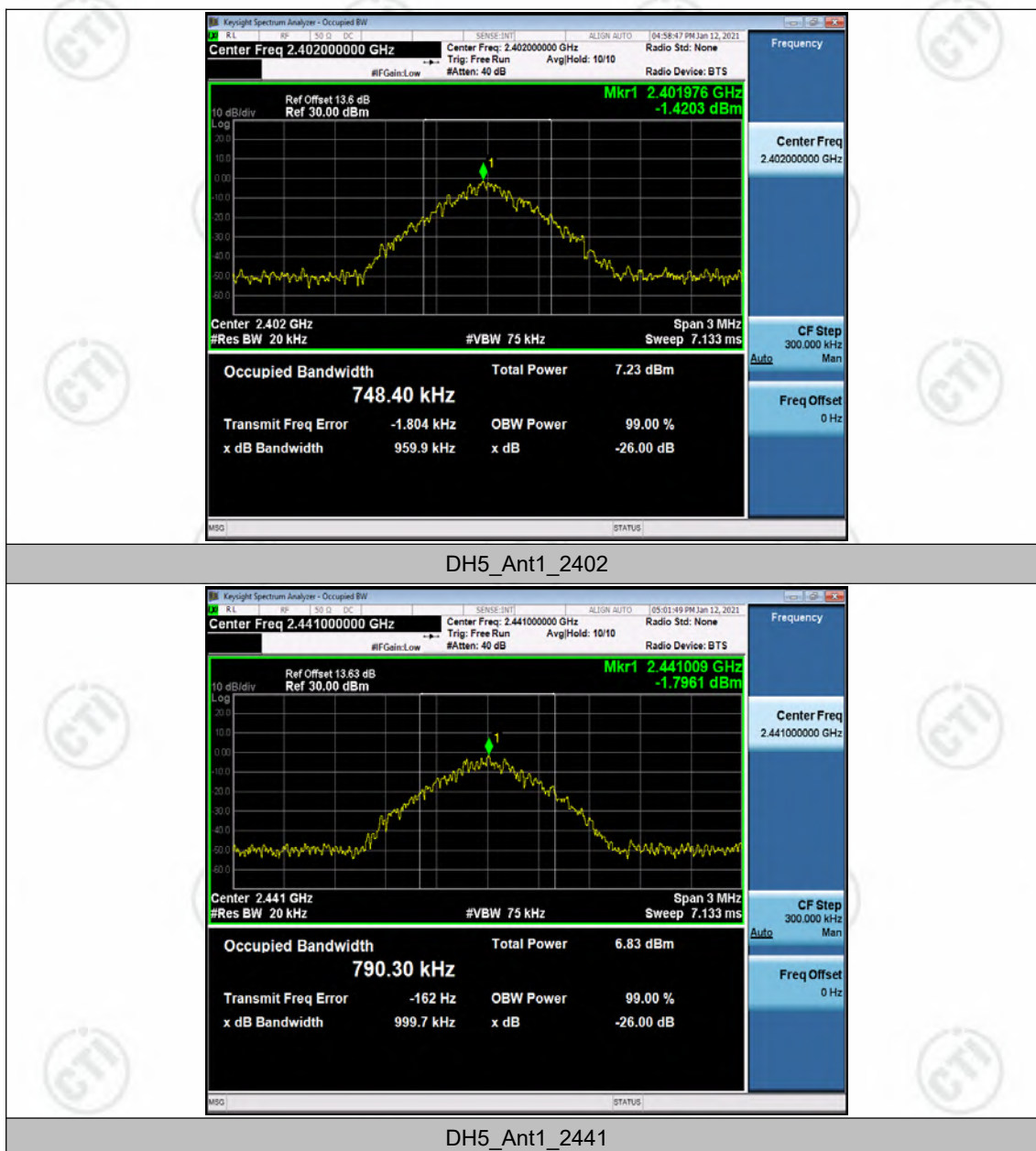


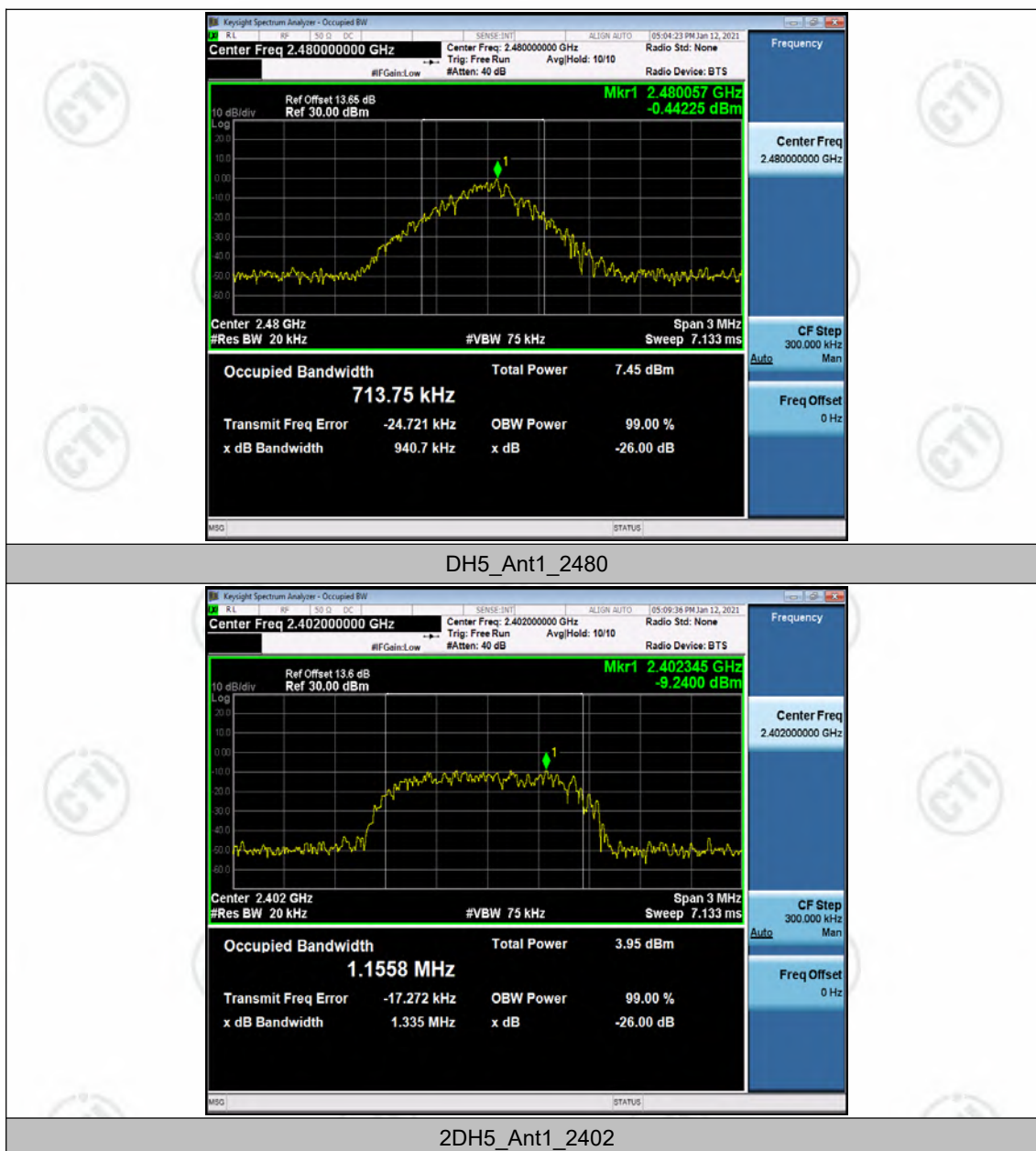
Appendix B: Occupied Channel Bandwidth

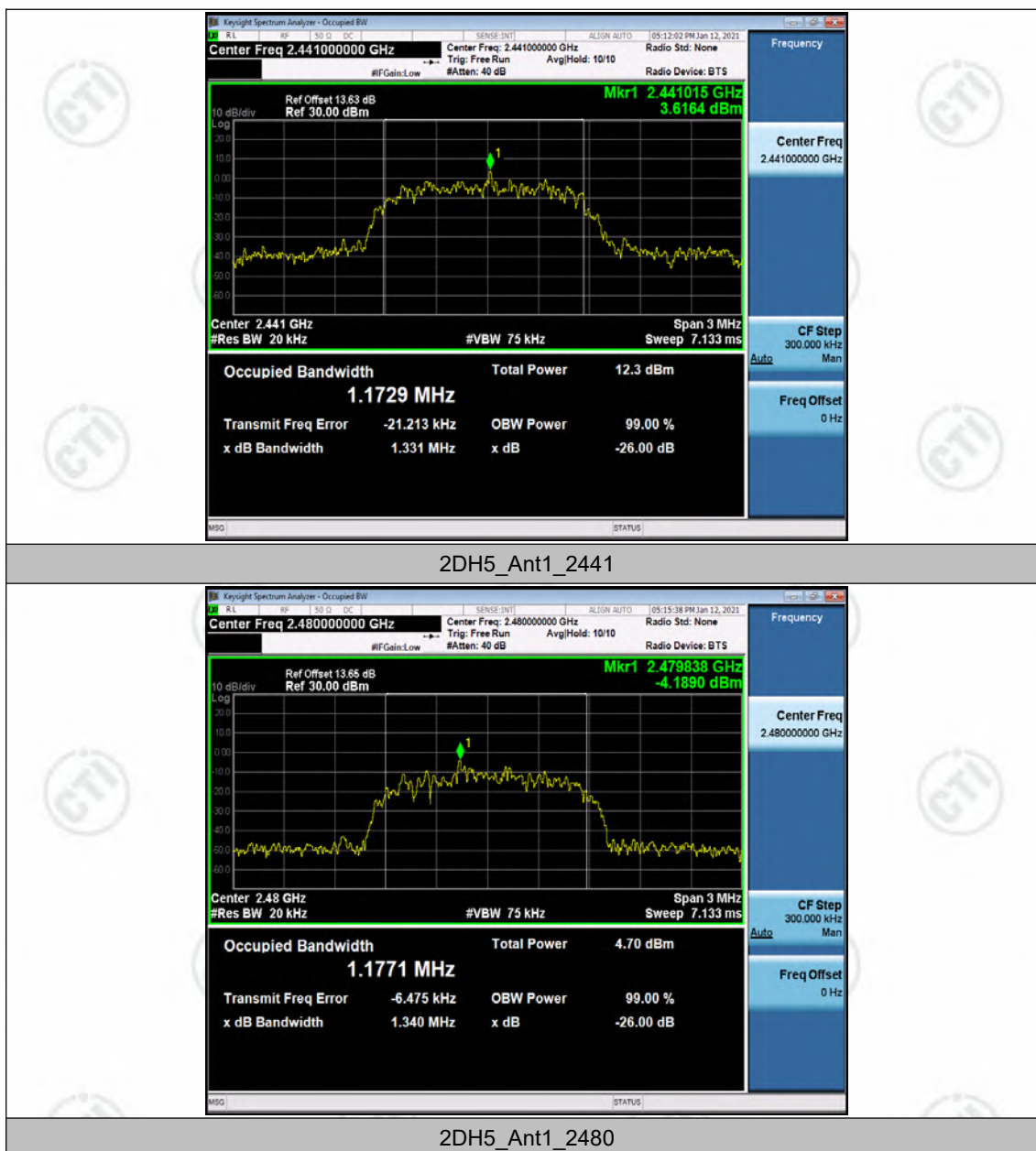
Test Result

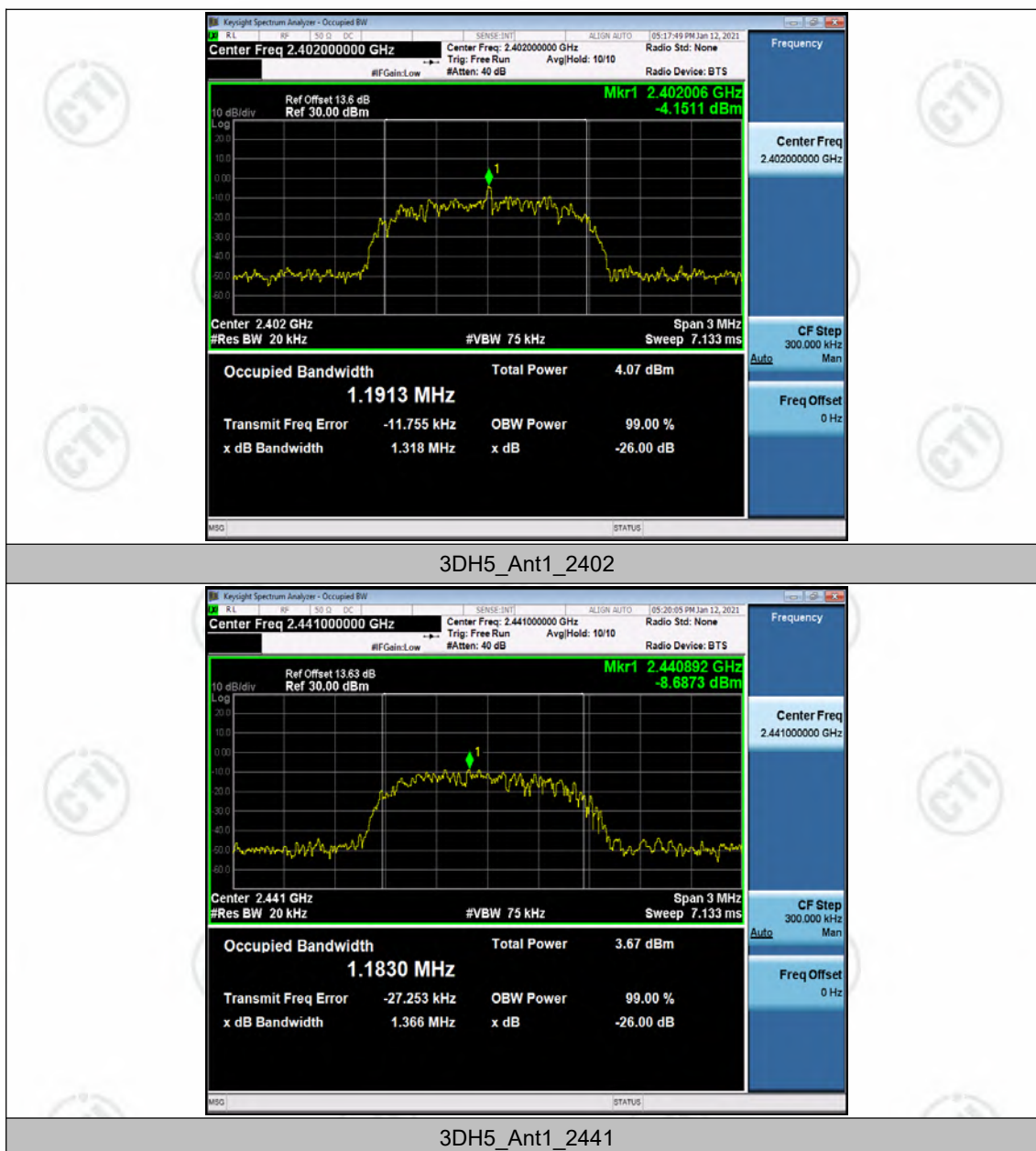
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.74840	2401.624	2402.372	---	PASS
		2441	0.79030	2440.605	2441.395	---	PASS
		2480	0.71375	2479.618	2480.332	---	PASS
2DH5	Ant1	2402	1.1558	2401.405	2402.561	---	PASS
		2441	1.1729	2440.392	2441.565	---	PASS
		2480	1.1771	2479.405	2480.582	---	PASS
3DH5	Ant1	2402	1.1913	2401.393	2402.584	---	PASS
		2441	1.1830	2440.381	2441.564	---	PASS
		2480	1.2108	2479.384	2480.595	---	PASS

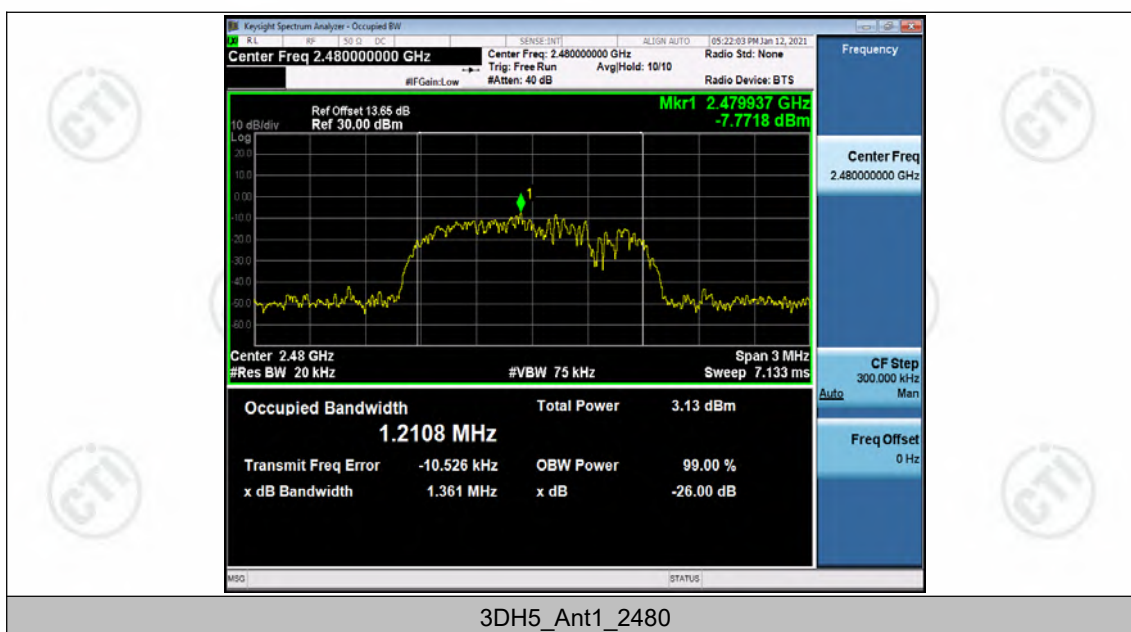
Test Graphs









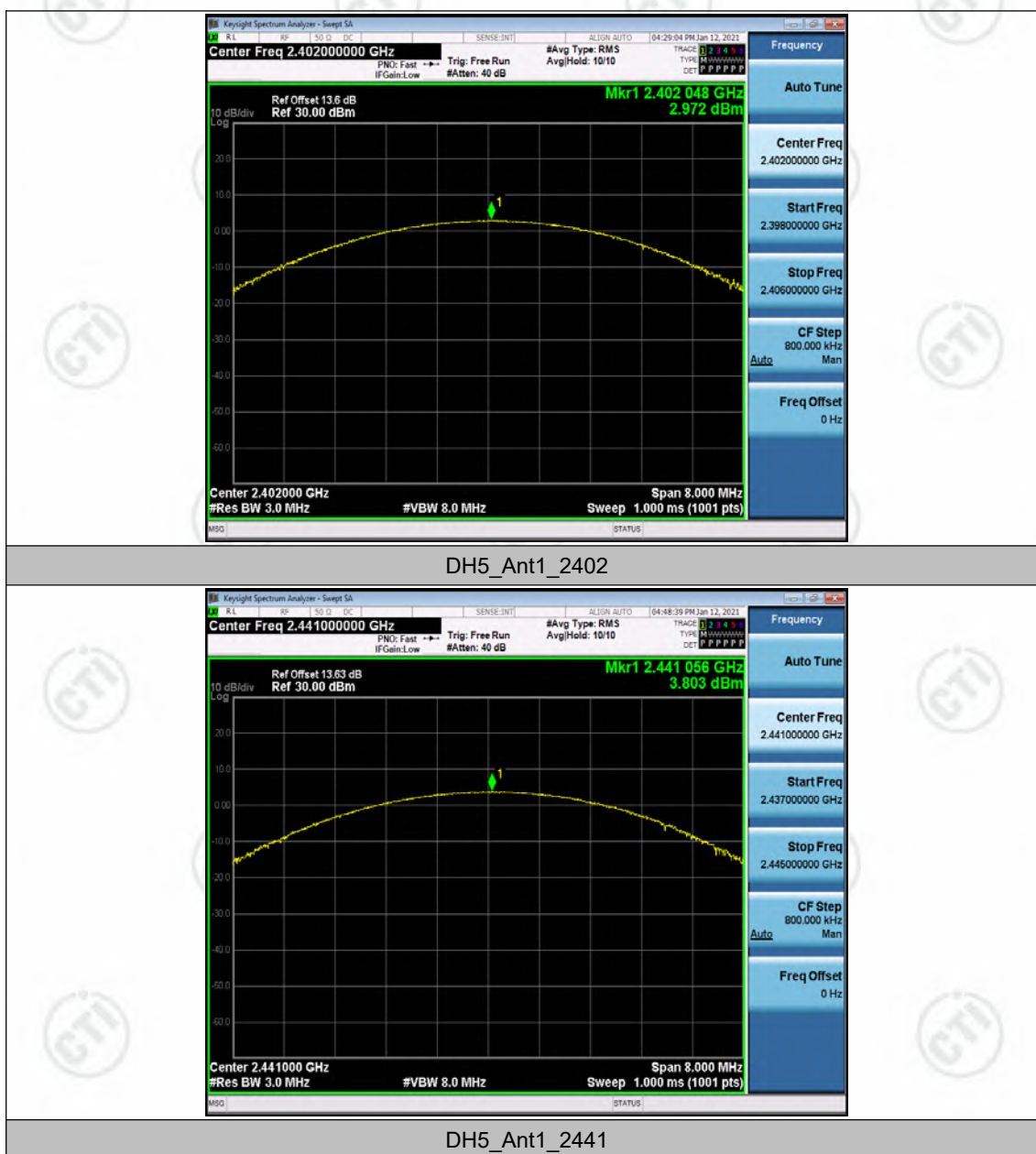


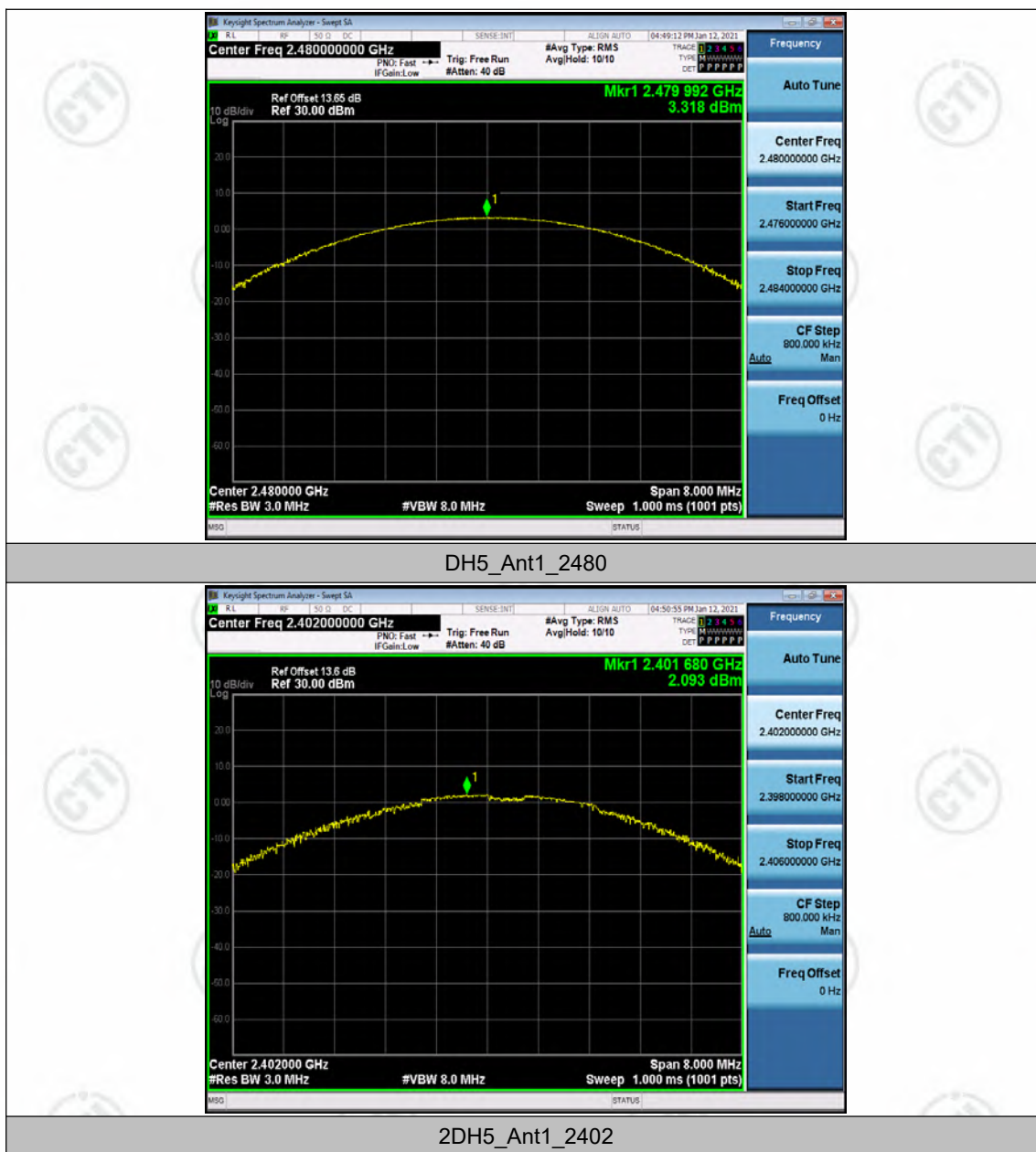
Appendix C: Maximum conducted output power

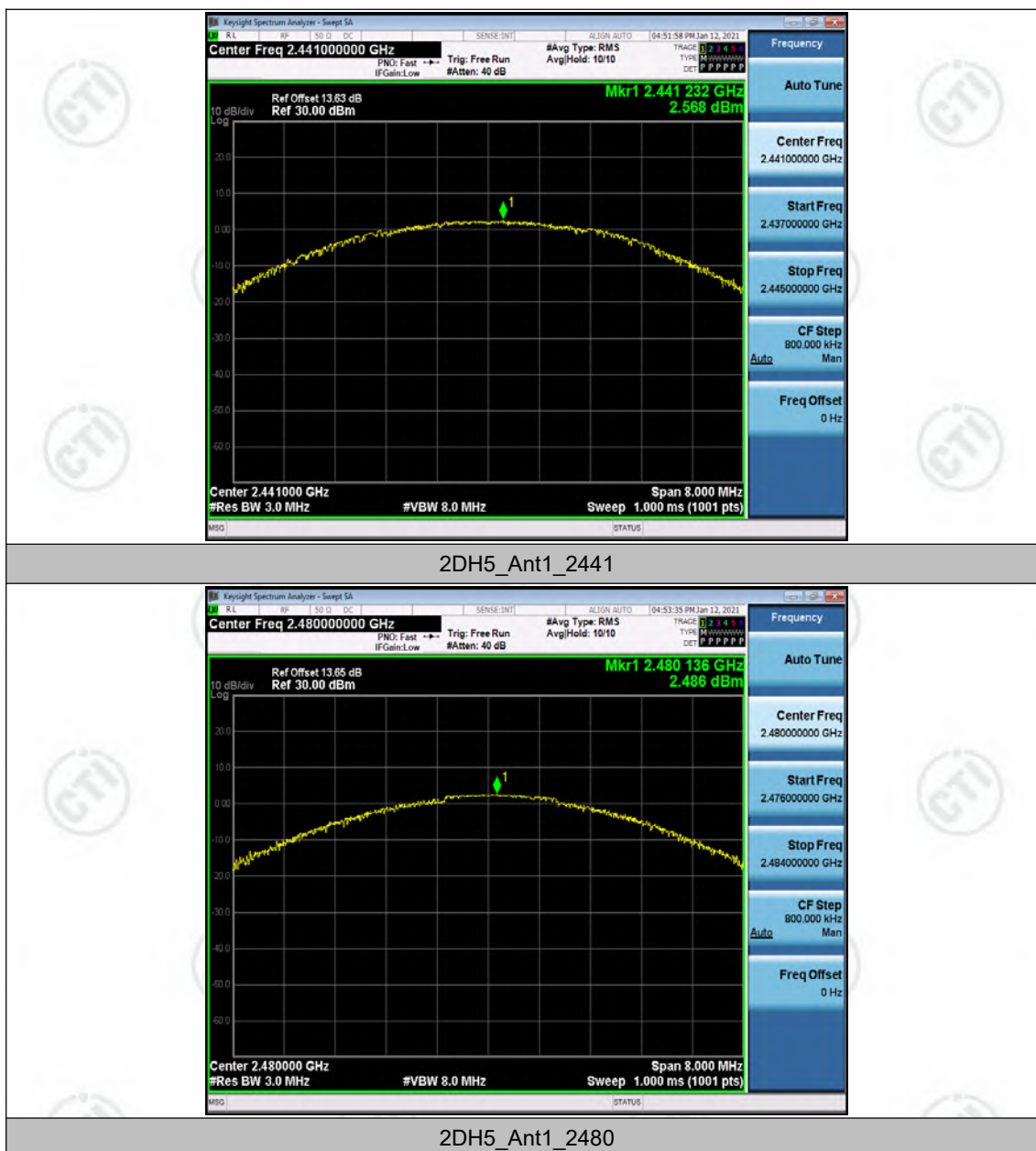
Test Result

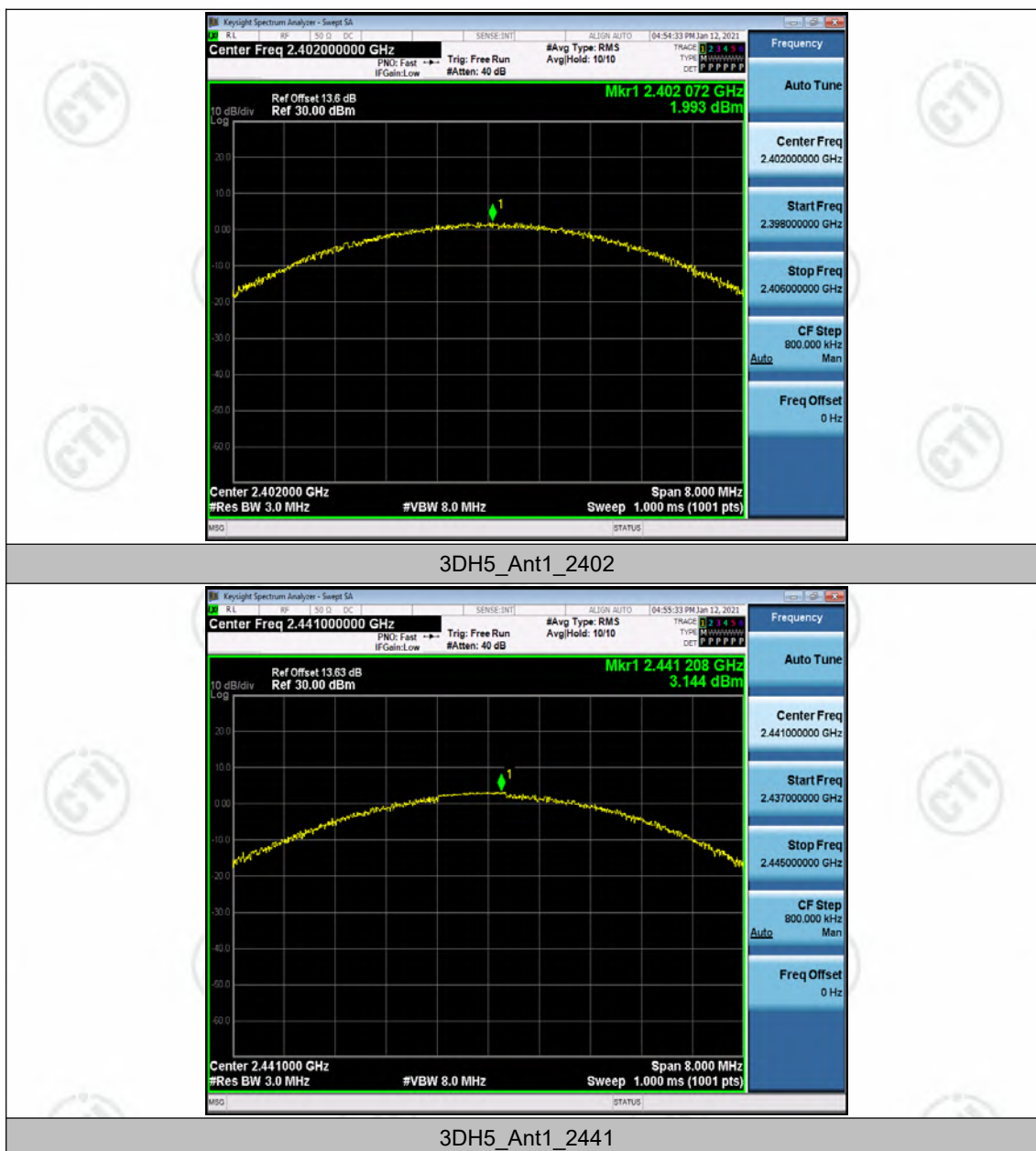
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.97	<=20.97	PASS
		2441	3.8	<=20.97	PASS
		2480	3.32	<=20.97	PASS
2DH5	Ant1	2402	2.09	<=30	PASS
		2441	2.57	<=30	PASS
		2480	2.49	<=30	PASS
3DH5	Ant1	2402	1.99	<=30	PASS
		2441	3.14	<=30	PASS
		2480	2.43	<=30	PASS

Test Graphs









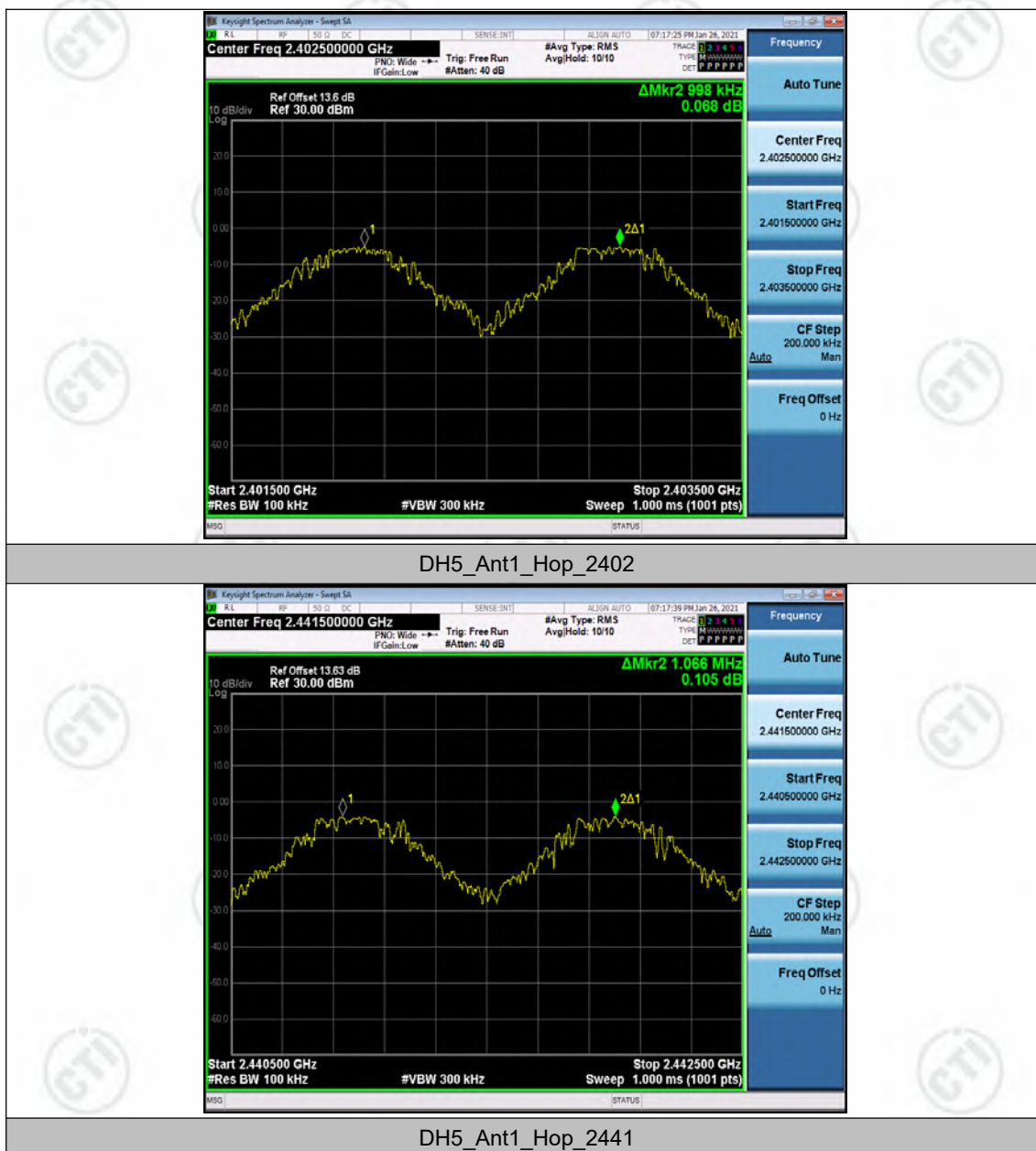


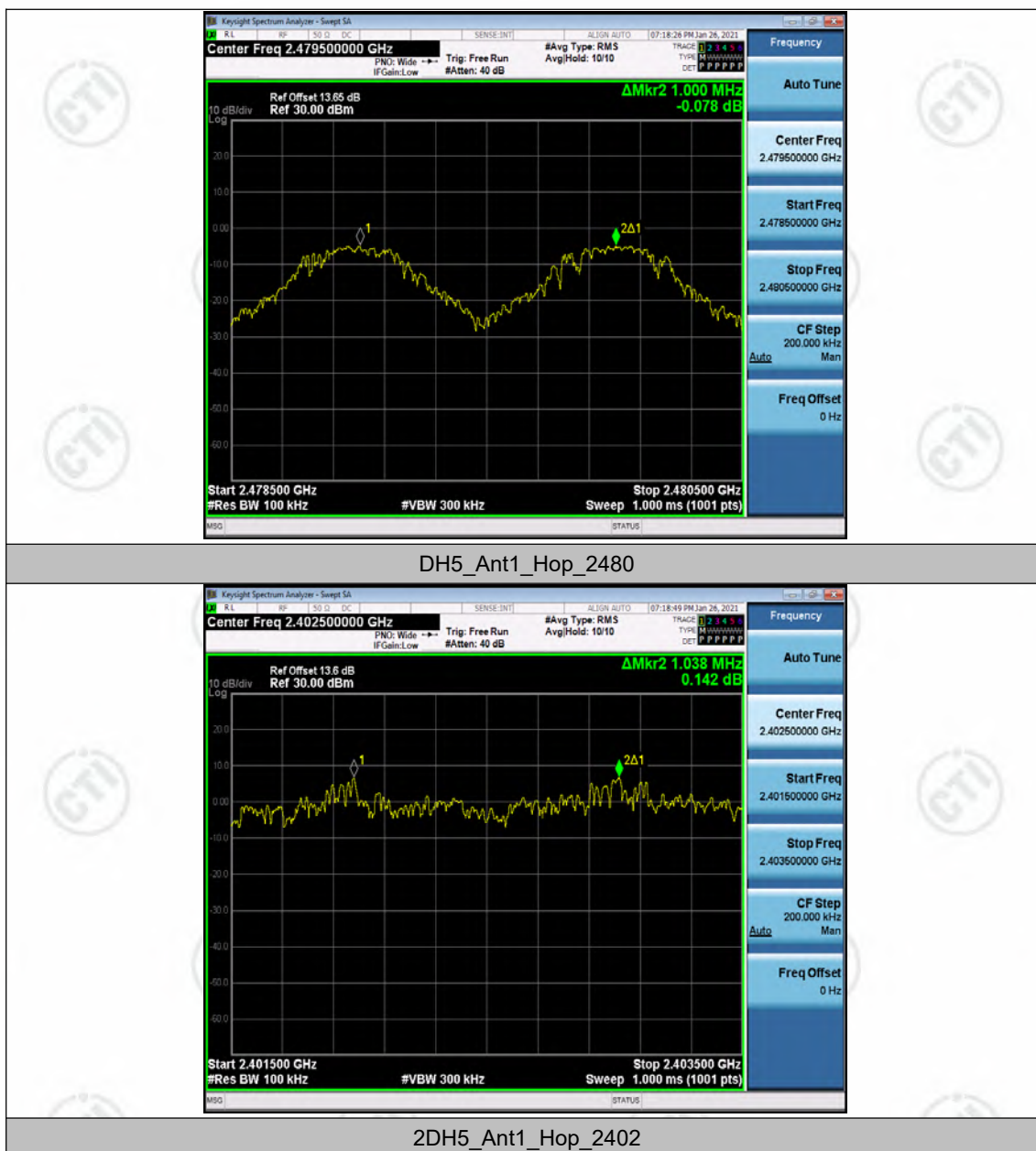
Appendix D: Carrier frequency separation

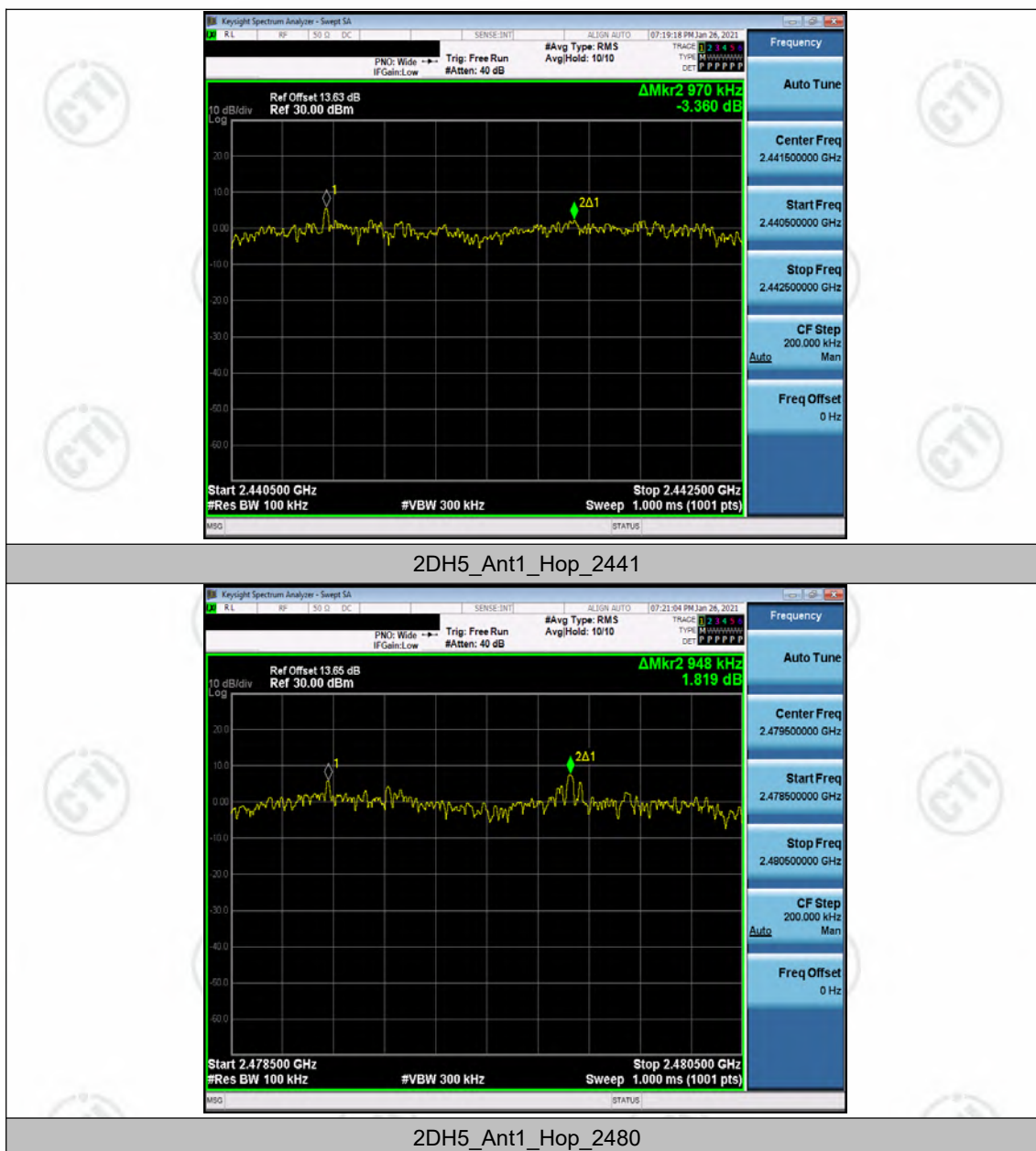
Test Result

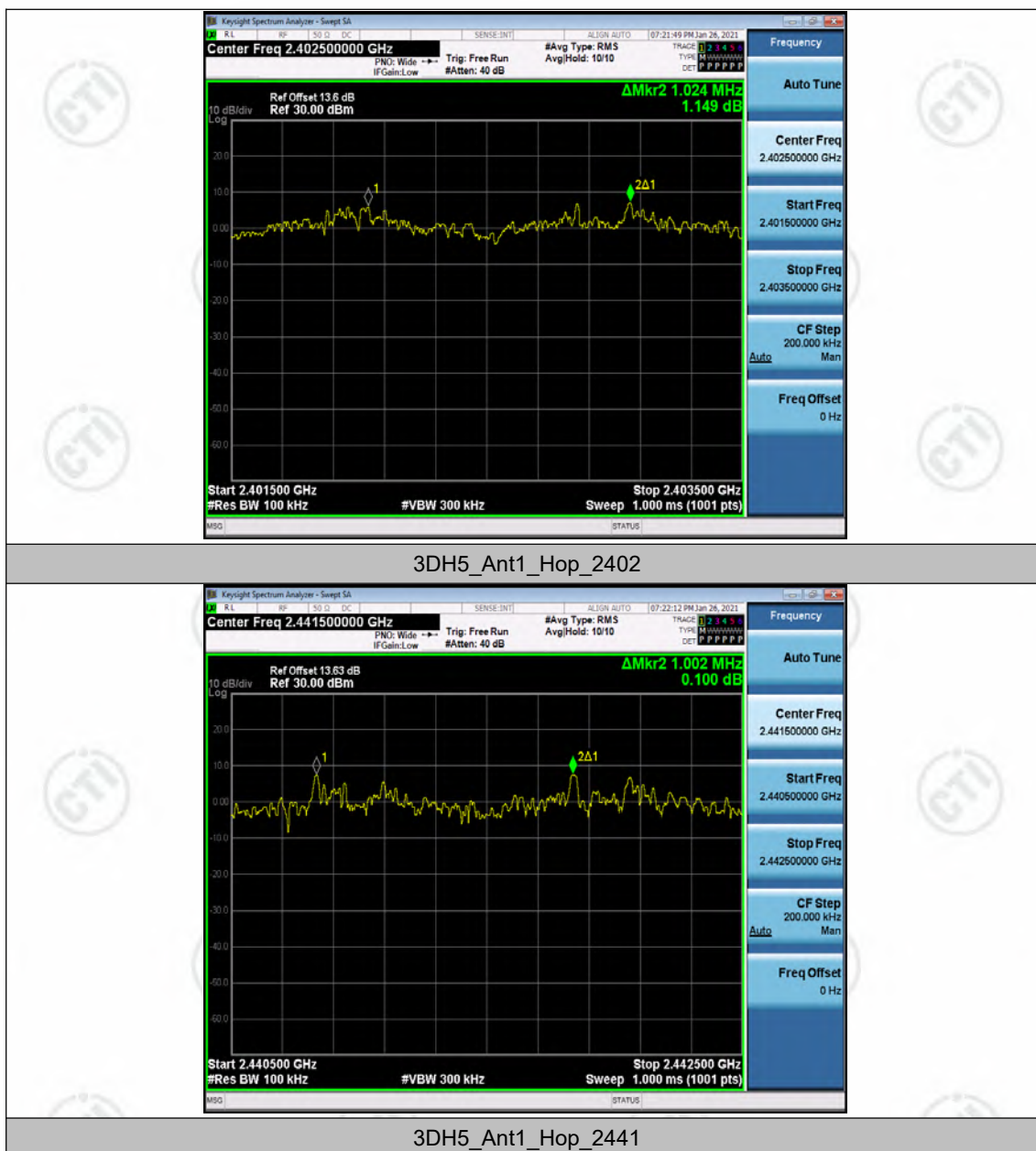
Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop_2402	0.998	≥ 0.792	PASS
		Hop_2441	1.066	≥ 0.792	PASS
		Hop_2480	1	≥ 0.792	PASS
2DH5	Ant1	Hop_2402	1.038	≥ 0.890	PASS
		Hop_2441	0.97	≥ 0.890	PASS
		Hop_2480	0.948	≥ 0.890	PASS
3DH5	Ant1	Hop_2402	1.024	≥ 0.884	PASS
		Hop_2441	1.002	≥ 0.884	PASS
		Hop_2480	1.018	≥ 0.884	PASS

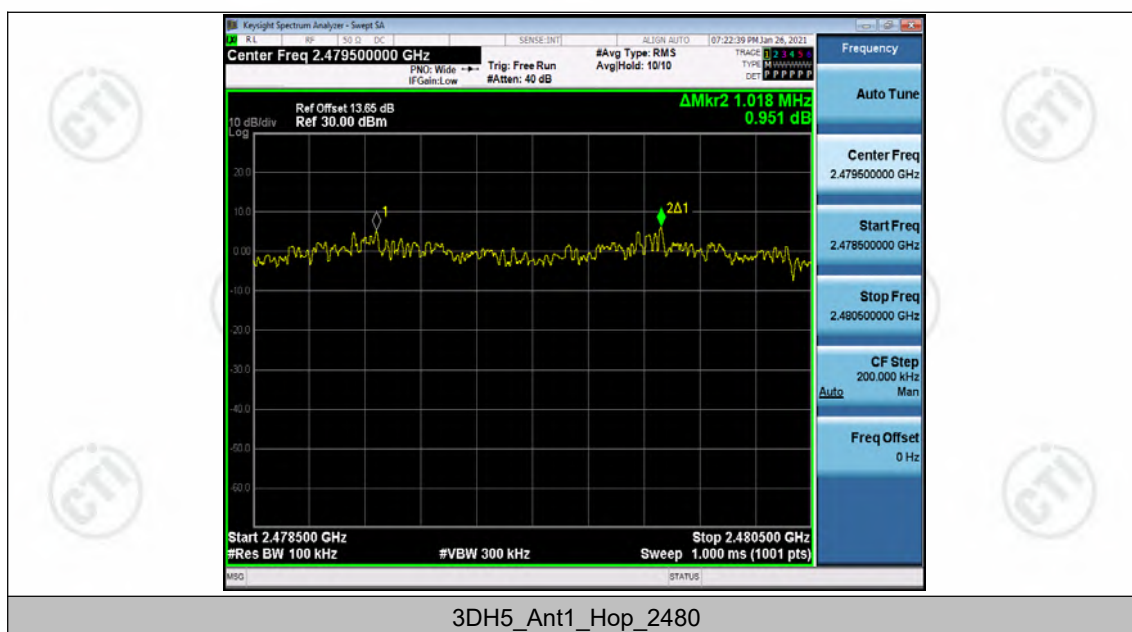
Test Graphs











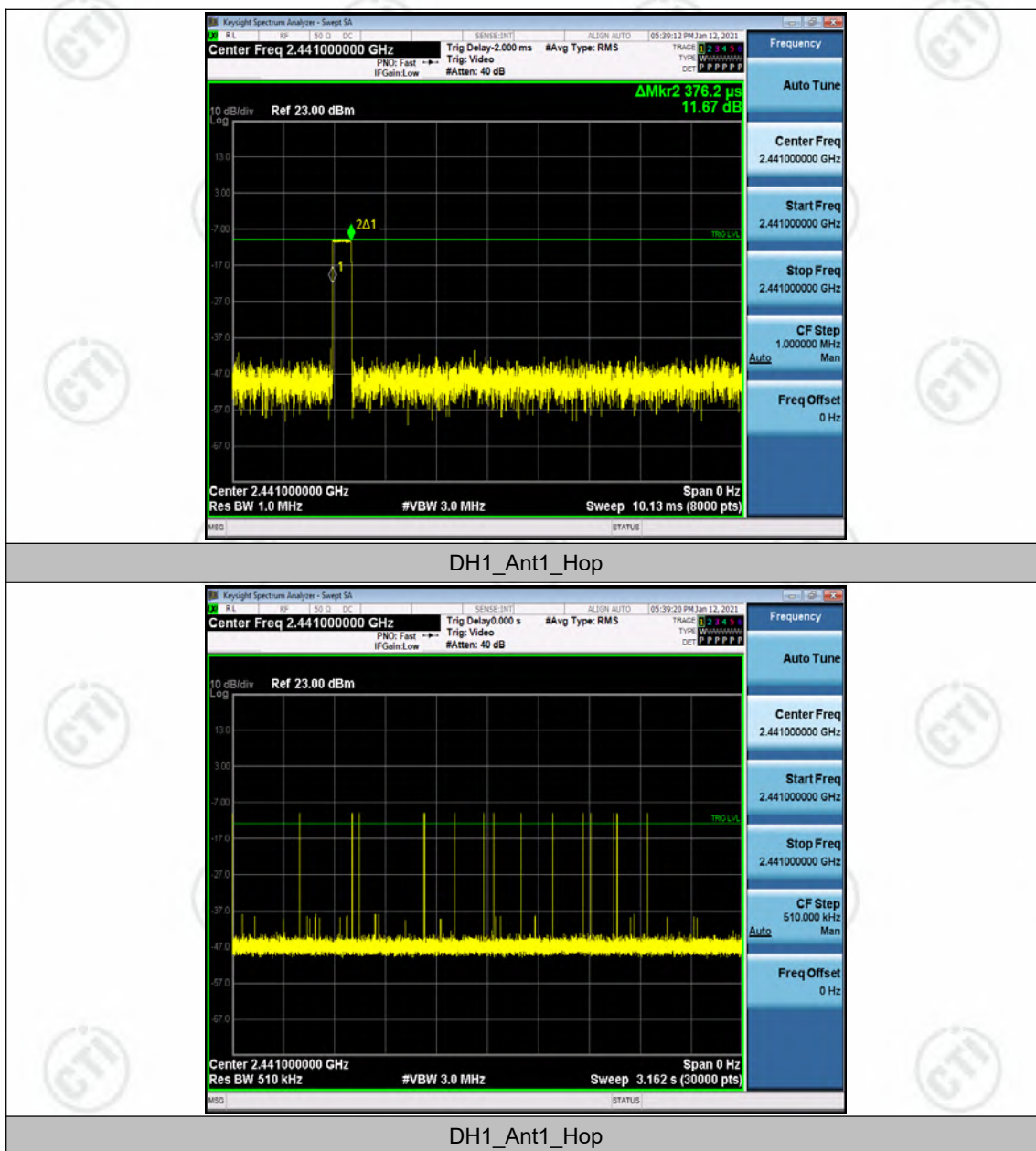
3DH5_Ant1_Hop_2480

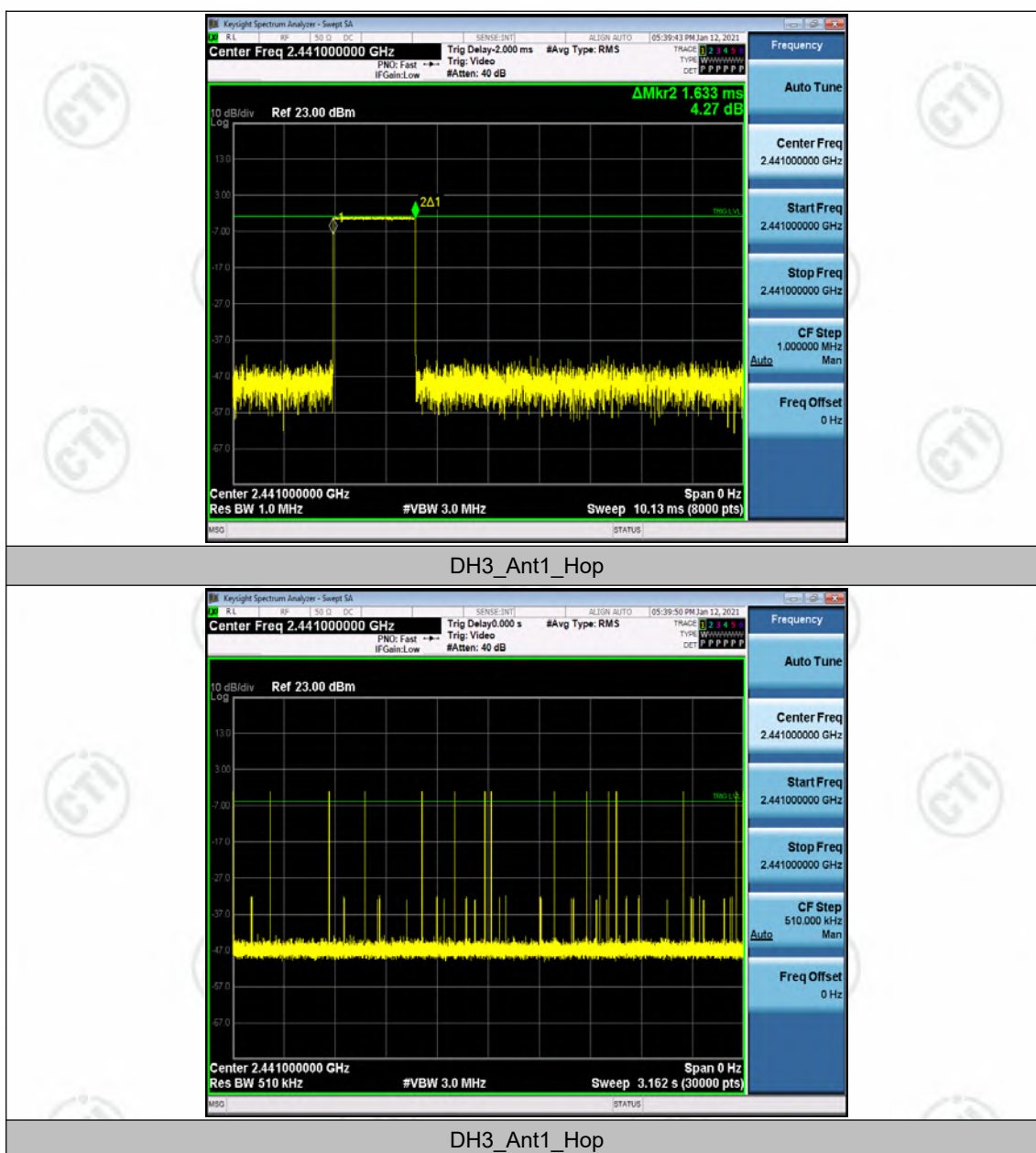
Appendix E: Time of occupancy

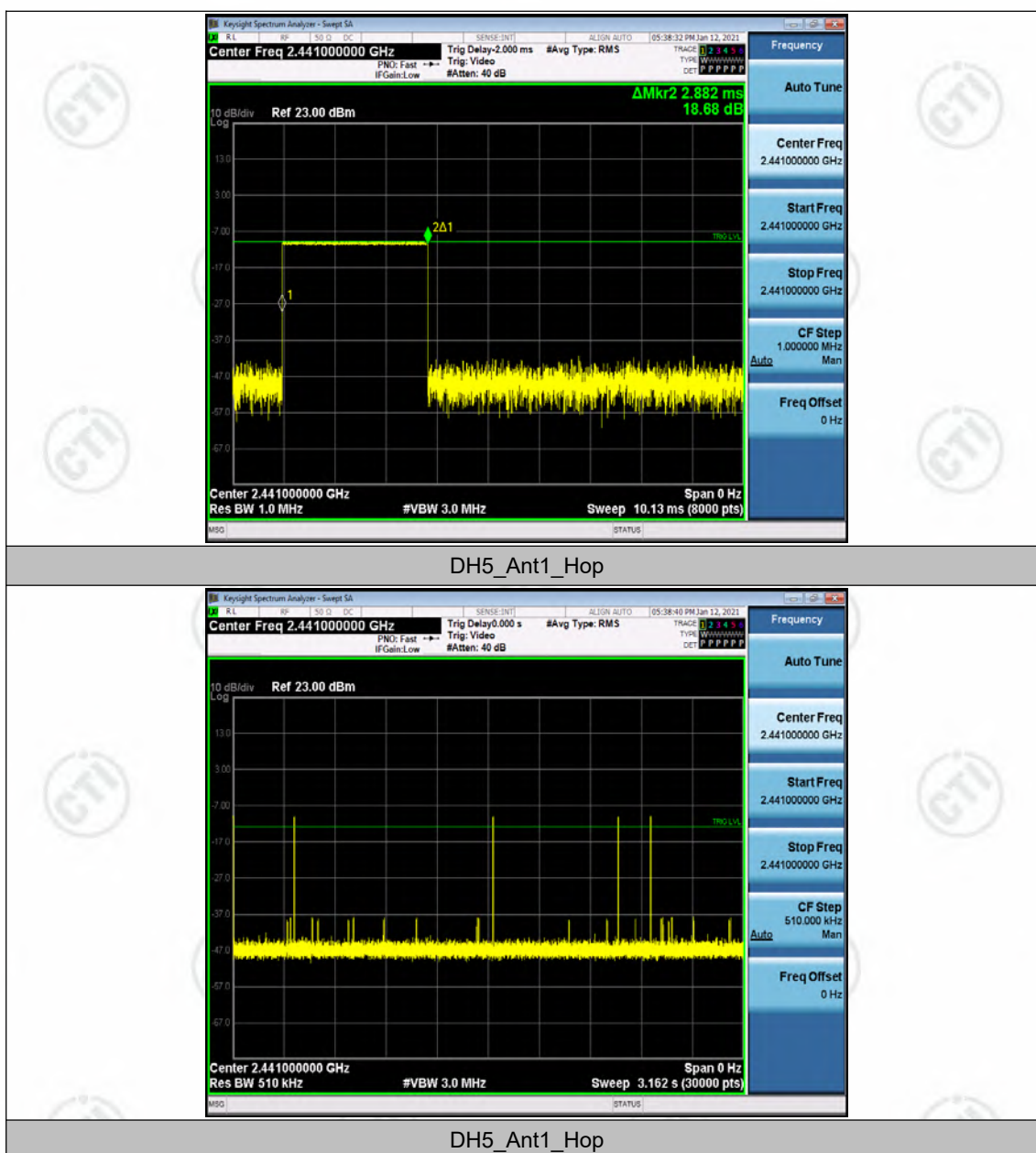
Test Result

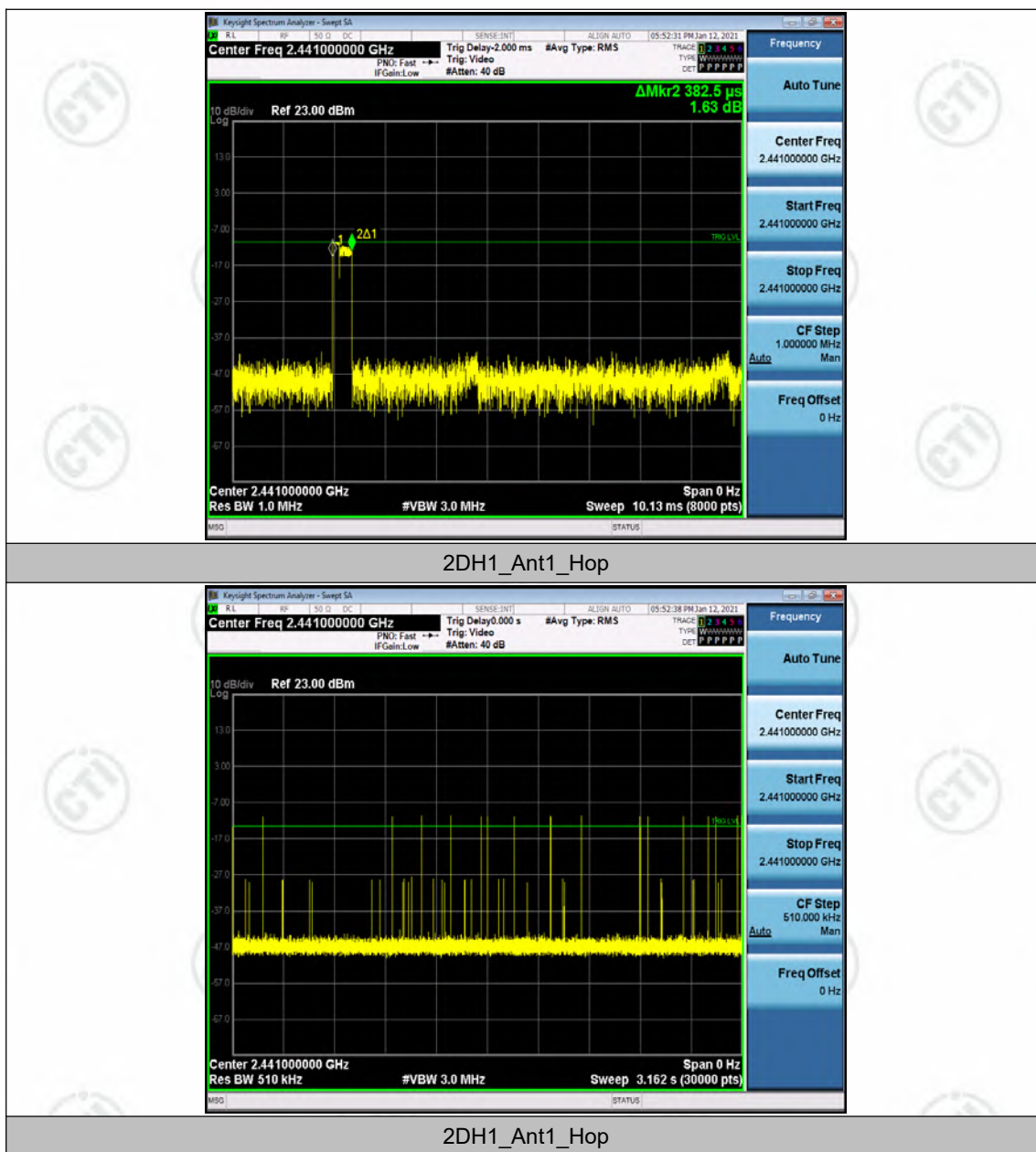
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	150	0.056	<=0.4	PASS
DH3	Ant1	Hop	1.63	150	0.245	<=0.4	PASS
DH5	Ant1	Hop	2.88	50	0.144	<=0.4	PASS
2DH1	Ant1	Hop	0.38	170	0.065	<=0.4	PASS
2DH3	Ant1	Hop	1.64	130	0.213	<=0.4	PASS
2DH5	Ant1	Hop	2.88	80	0.231	<=0.4	PASS
3DH1	Ant1	Hop	0.39	150	0.058	<=0.4	PASS
3DH3	Ant1	Hop	1.63	150	0.245	<=0.4	PASS
3DH5	Ant1	Hop	2.89	90	0.26	<=0.4	PASS

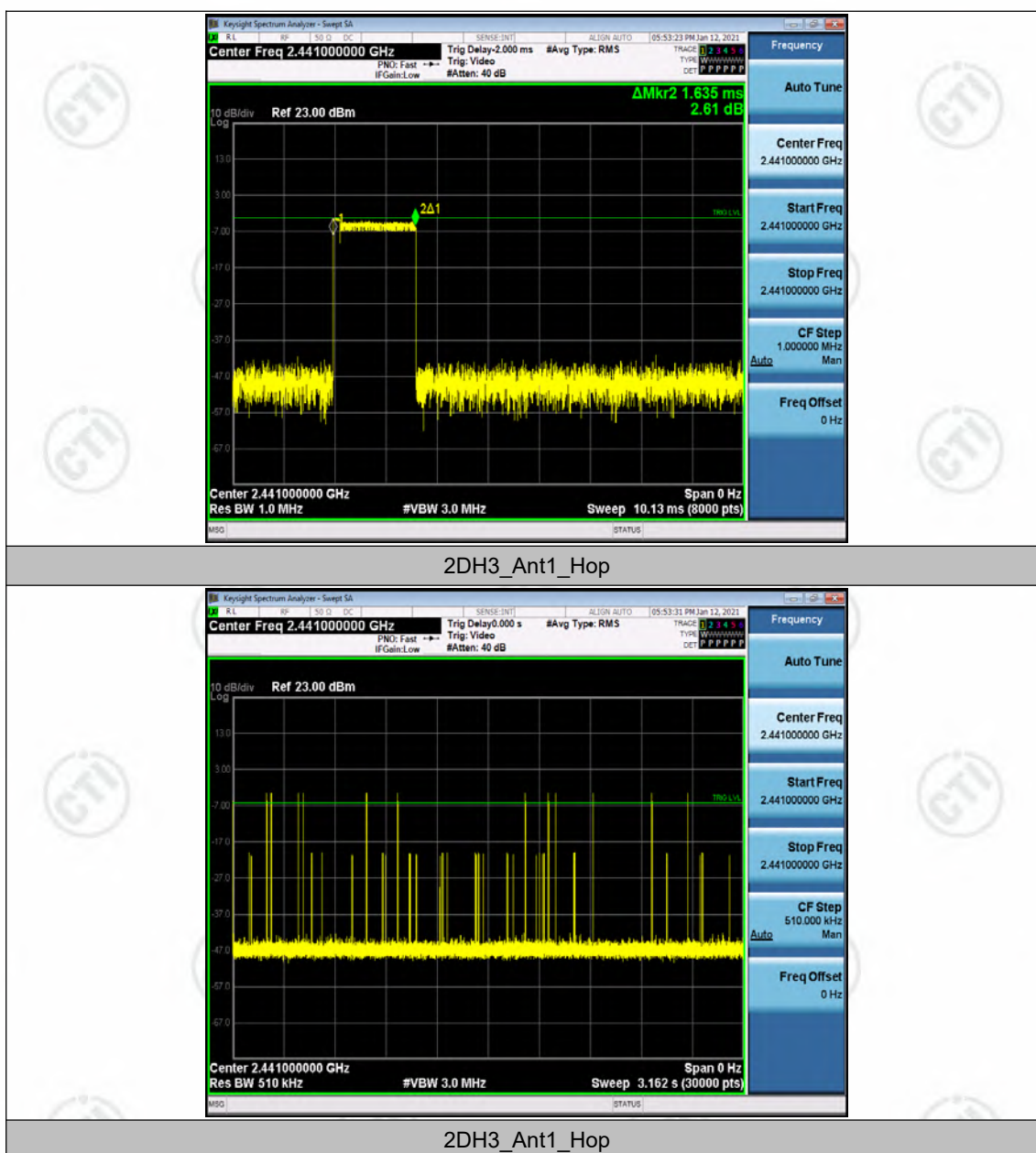
Test Graphs

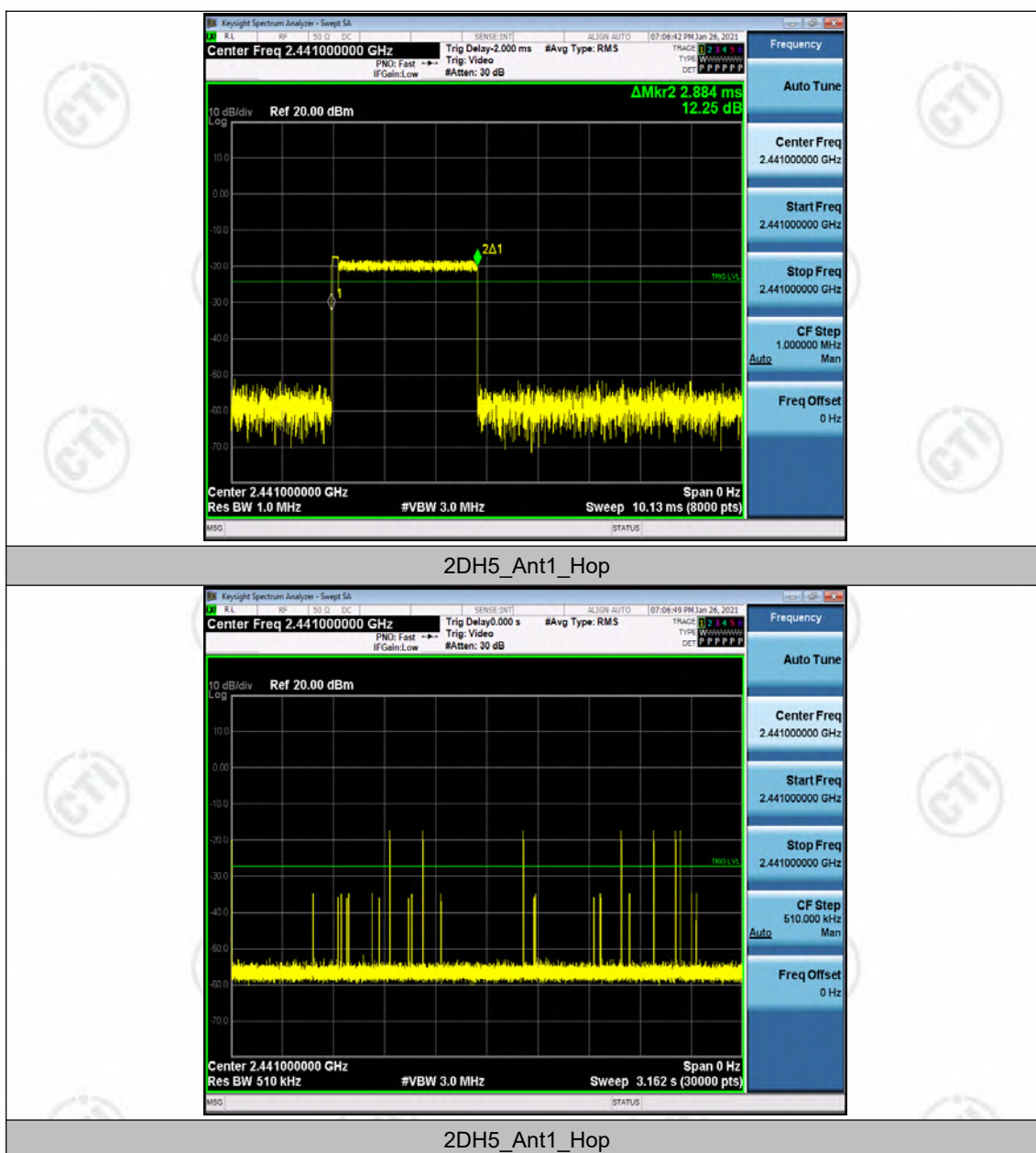


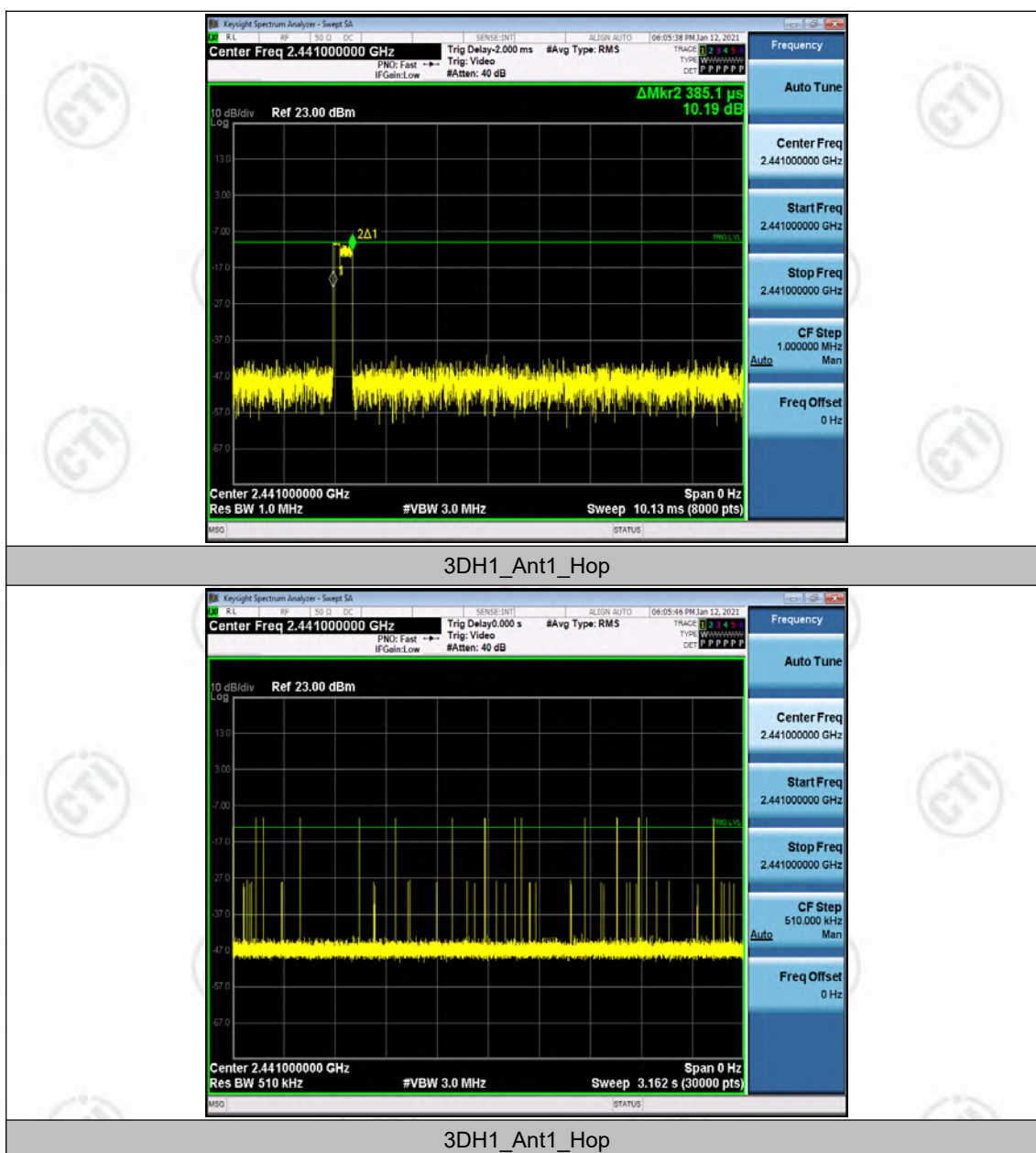


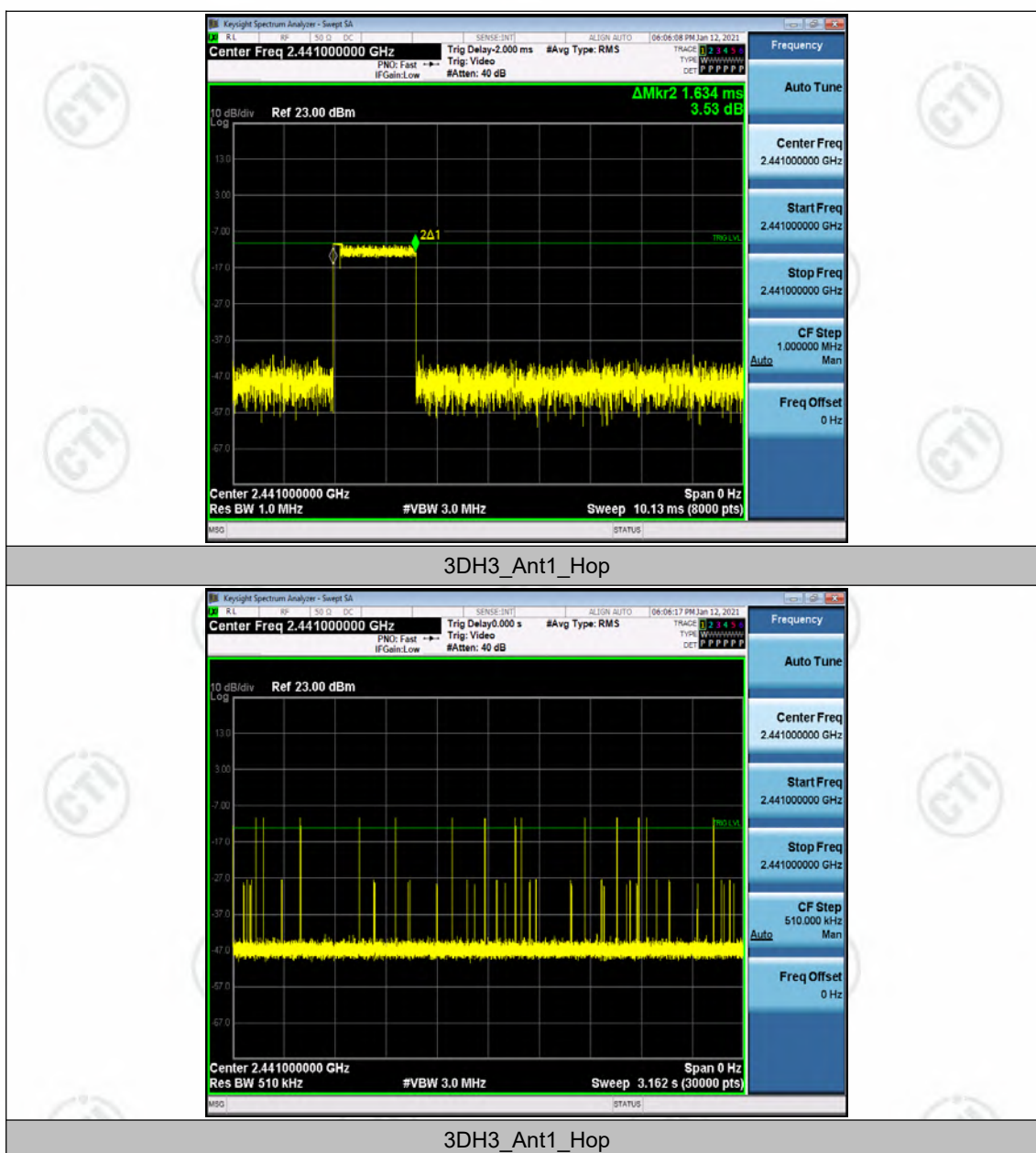


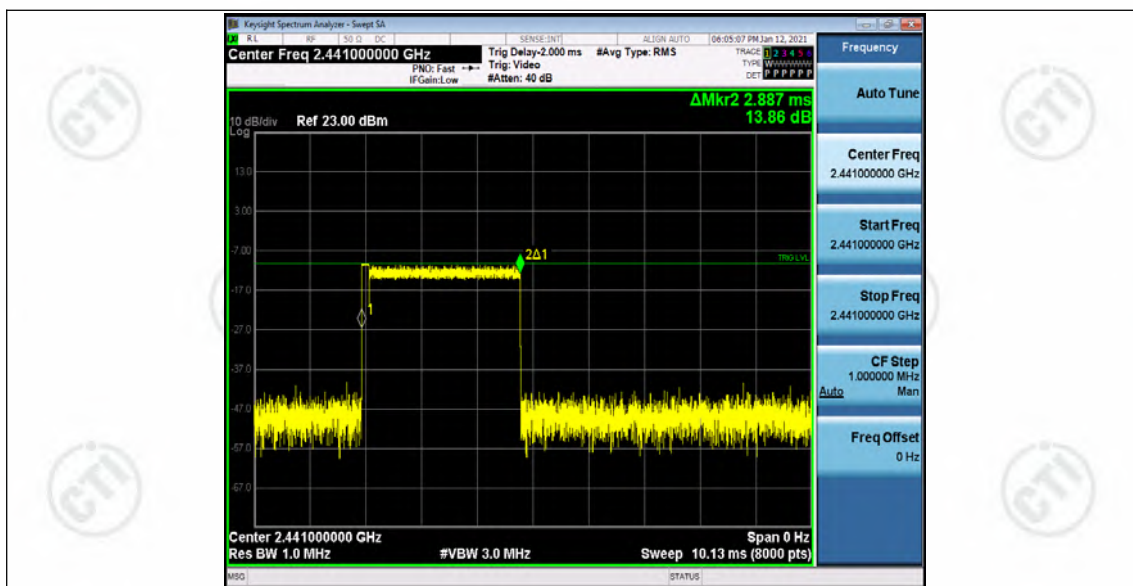




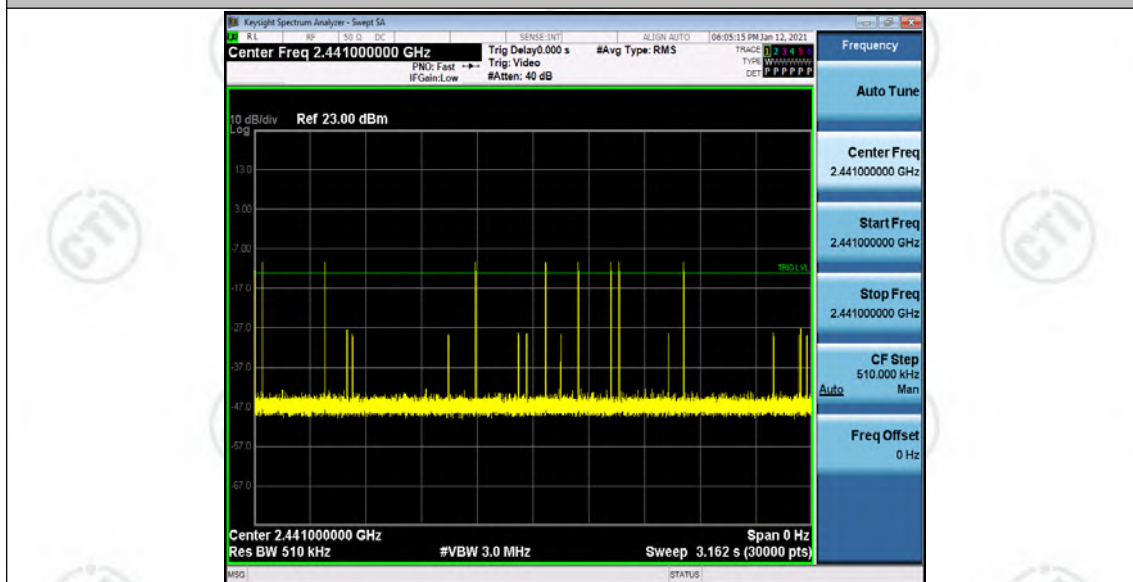








3DH5_Ant1_Hop



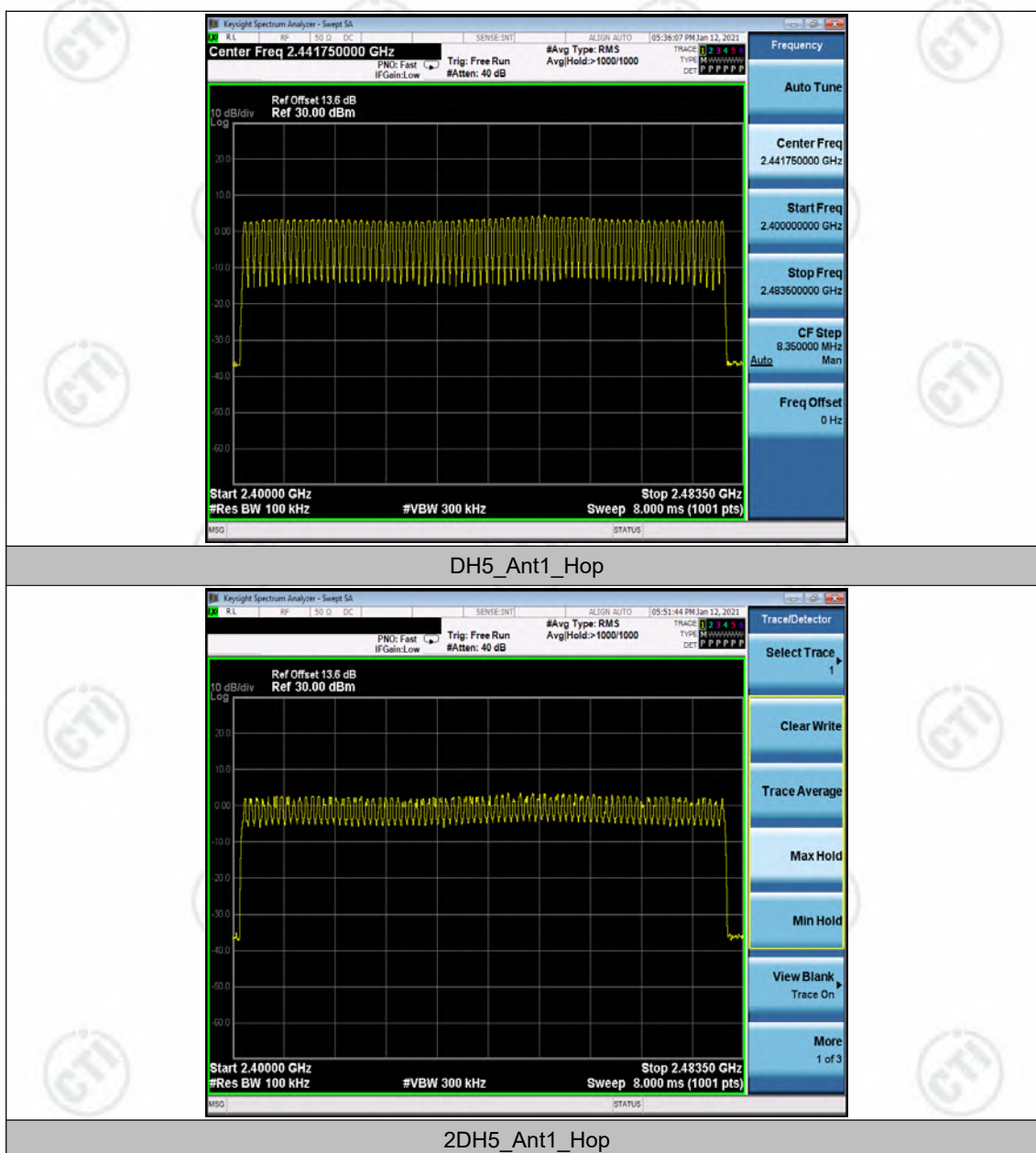
3DH5_Ant1_Hop

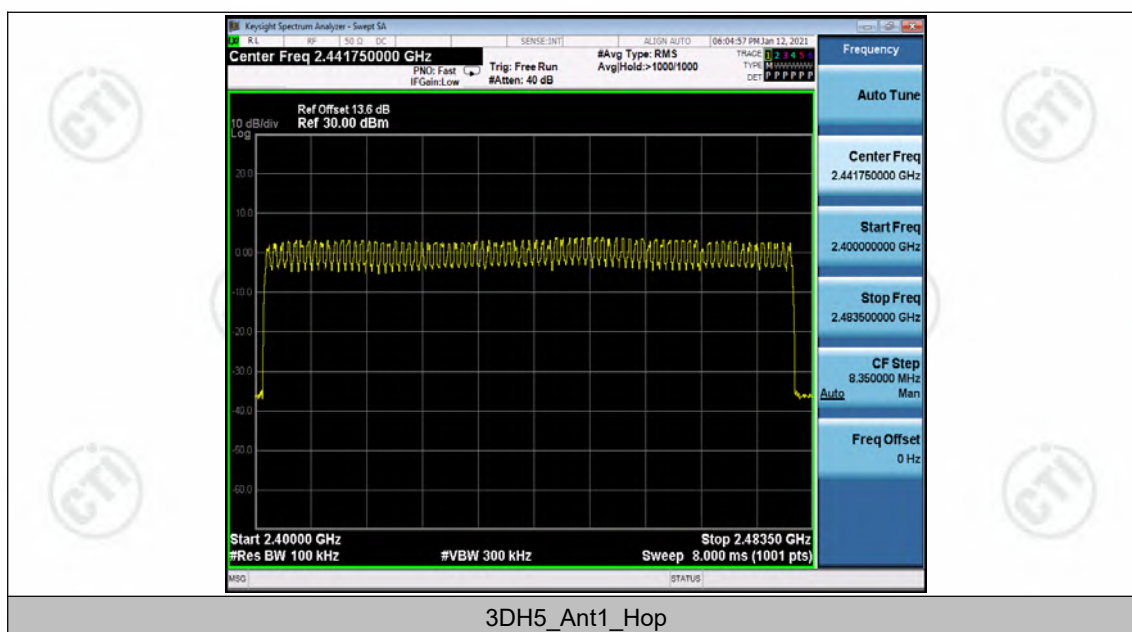
Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Channel	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



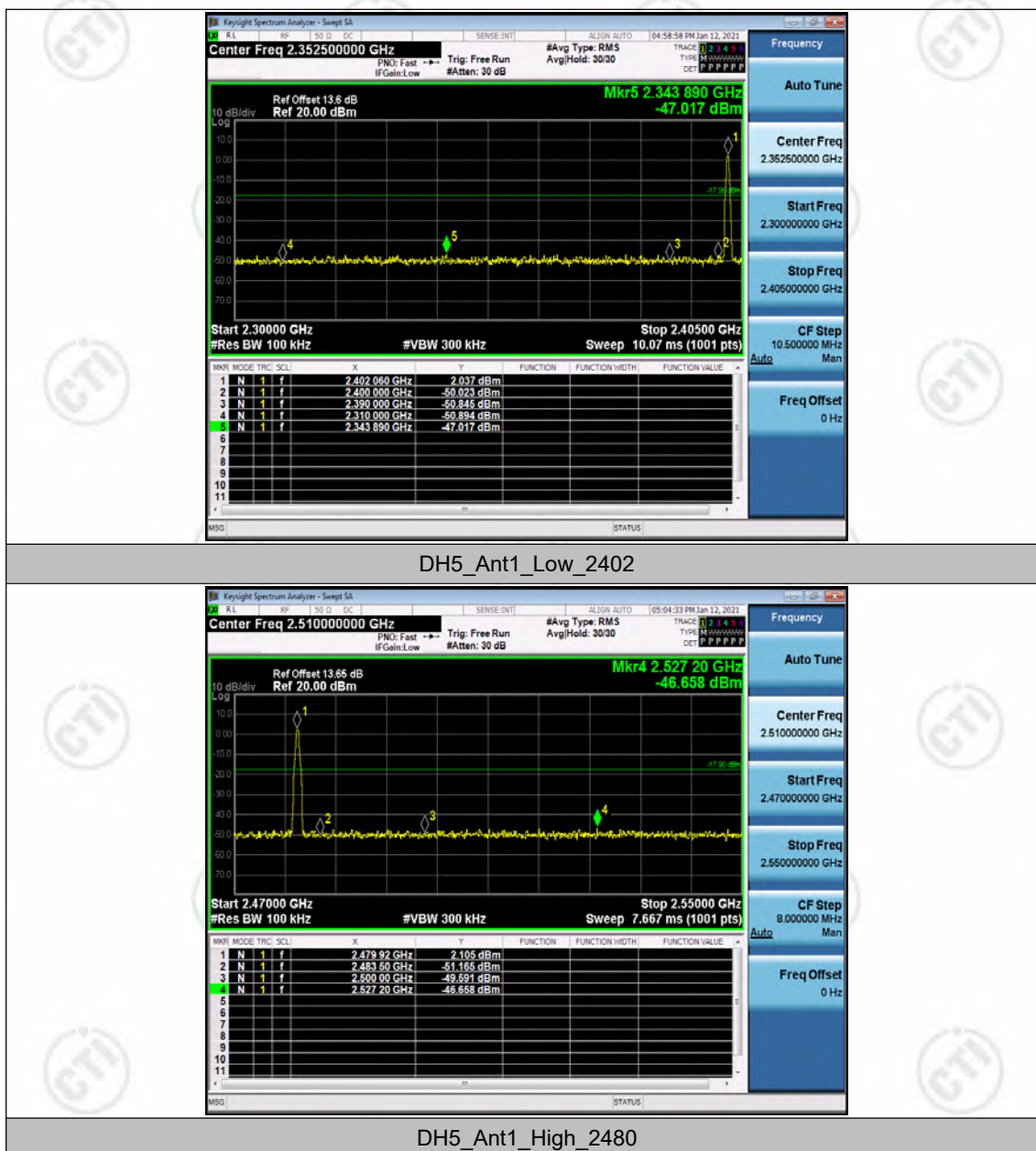


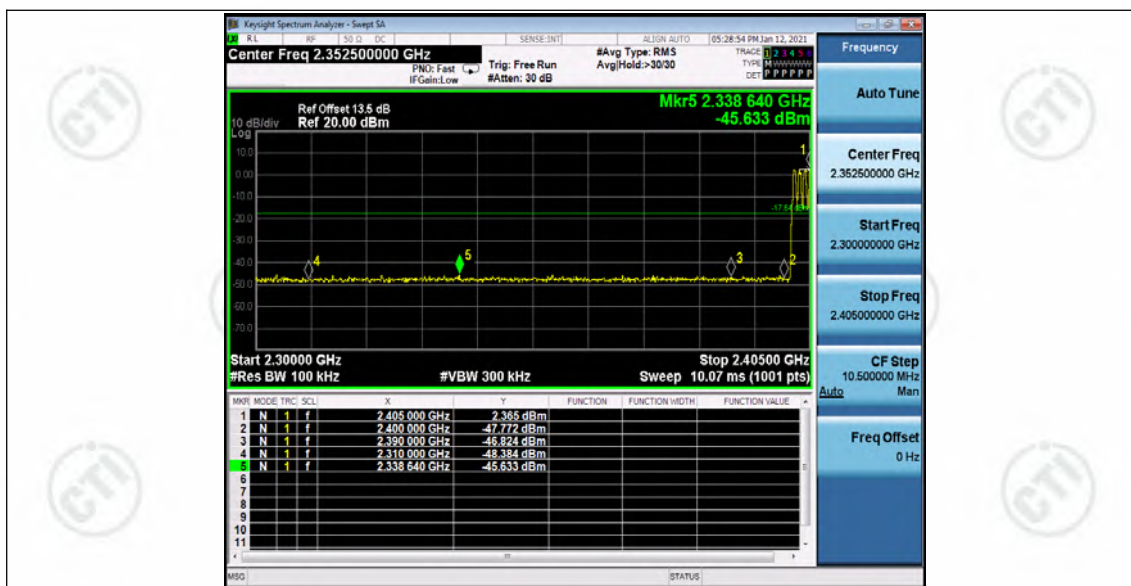
Appendix G:Band edge measurements

Test Result

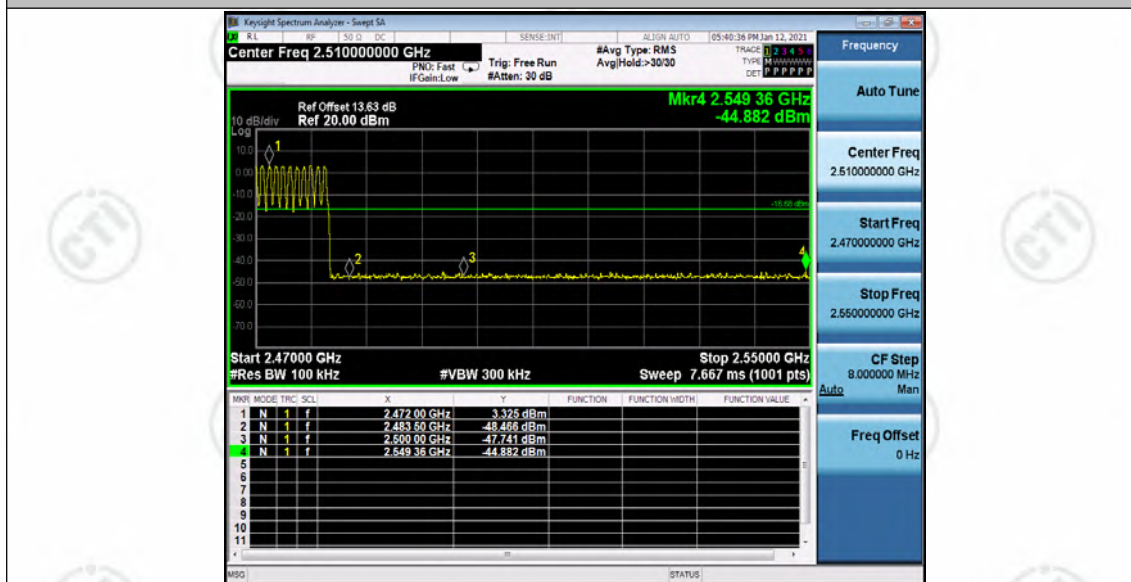
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.04	-47.02	<=-17.96	PASS
		High	2480	2.11	-46.66	<=-17.9	PASS
		Low	Hop_2402	2.37	-45.63	<=-17.64	PASS
		High	Hop_2480	3.33	-44.88	<=-16.68	PASS
2DH5	Ant1	Low	2402	-3.09	-46.65	<=-23.09	PASS
		High	2480	2.06	-46.81	<=-17.95	PASS
		Low	Hop_2402	3.18	-45.83	<=-16.82	PASS
		High	Hop_2480	2.21	-45.16	<=-17.79	PASS
3DH5	Ant1	Low	2402	-3.27	-47.25	<=-23.27	PASS
		High	2480	-0.30	-46.13	<=-20.3	PASS
		Low	Hop_2402	2.11	-45.23	<=-17.9	PASS
		High	Hop_2480	2.96	-45.16	<=-17.04	PASS

Test Graphs

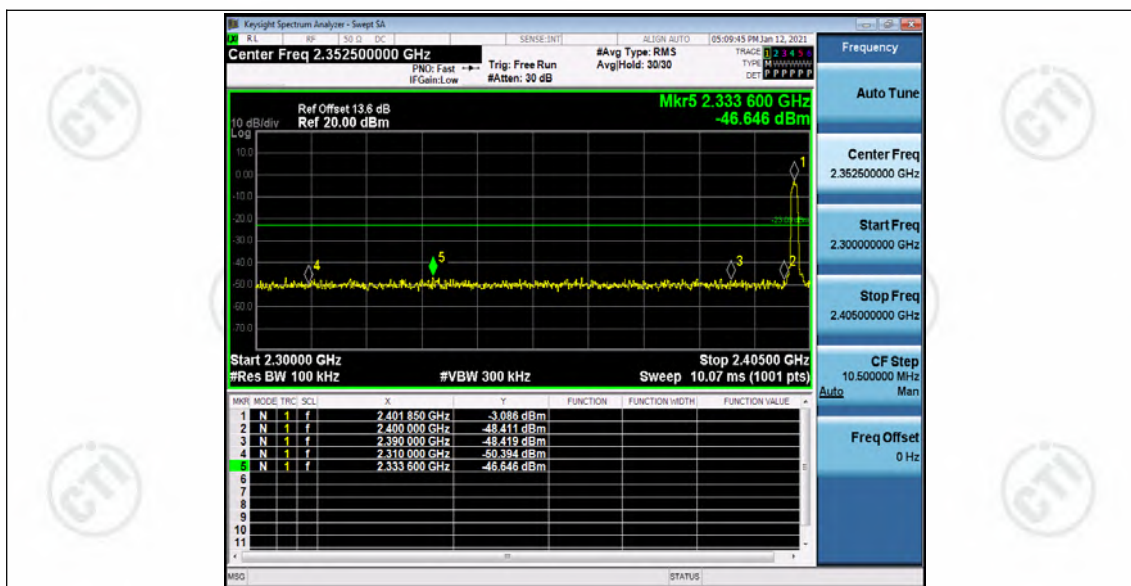




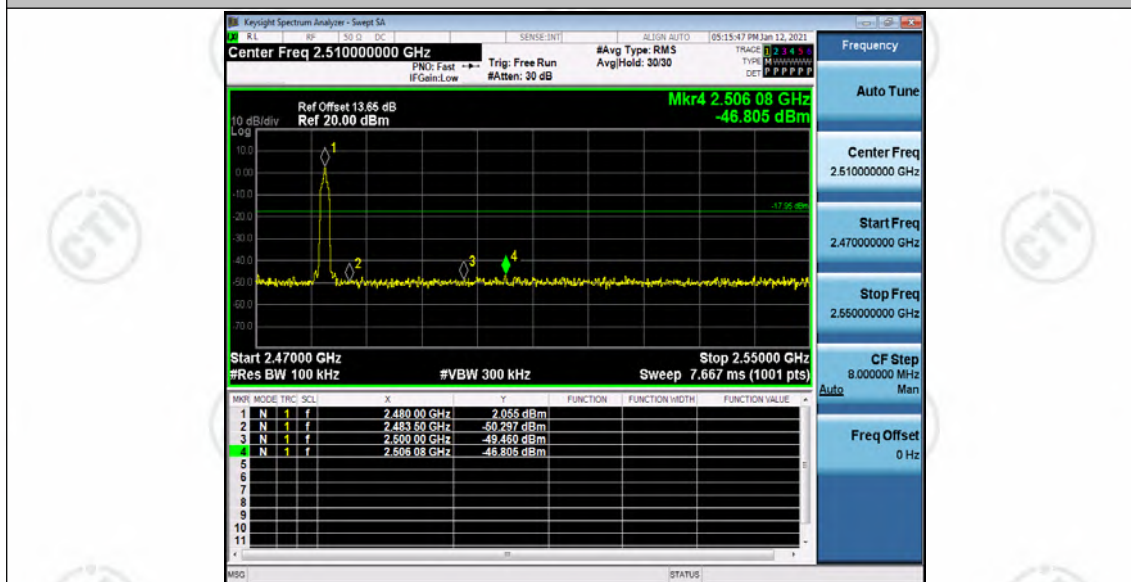
DH5_Ant1_Low_Hop_2402



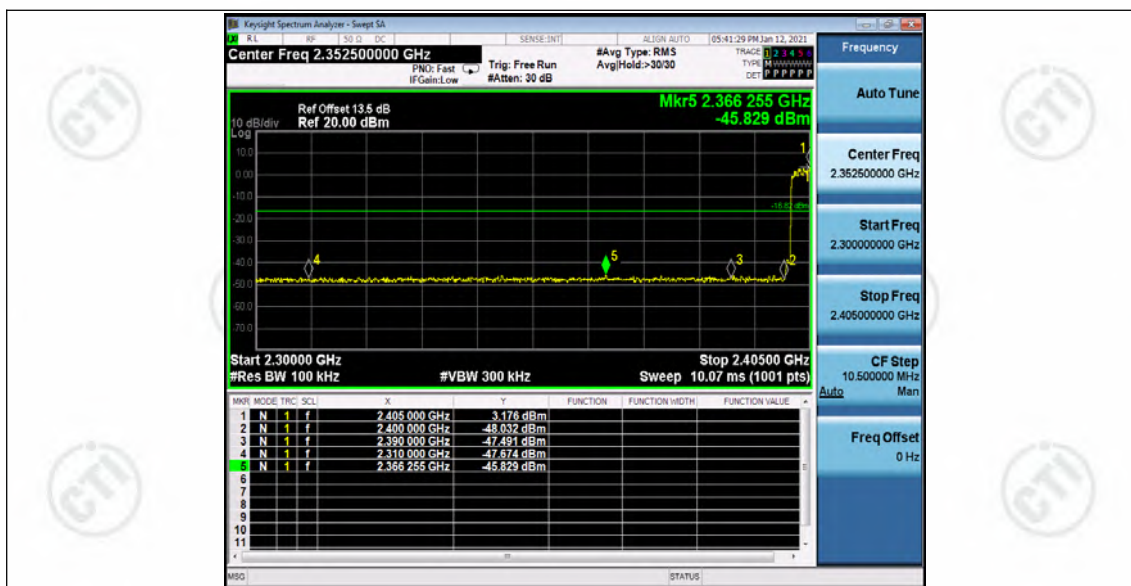
DH5_Ant1_High_Hop_2480



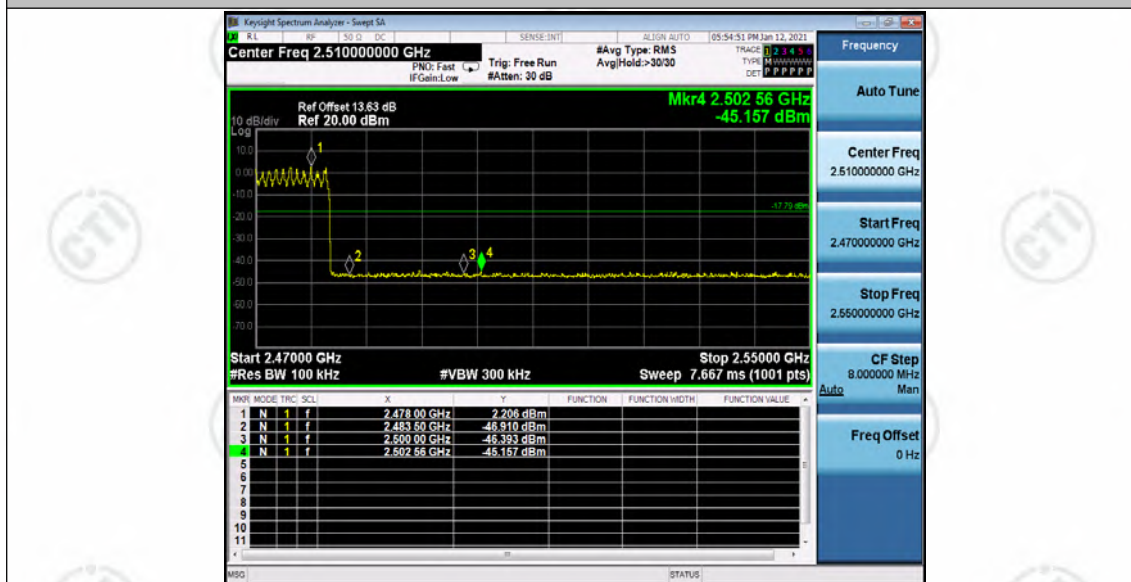
2DH5_Ant1_Low_2402



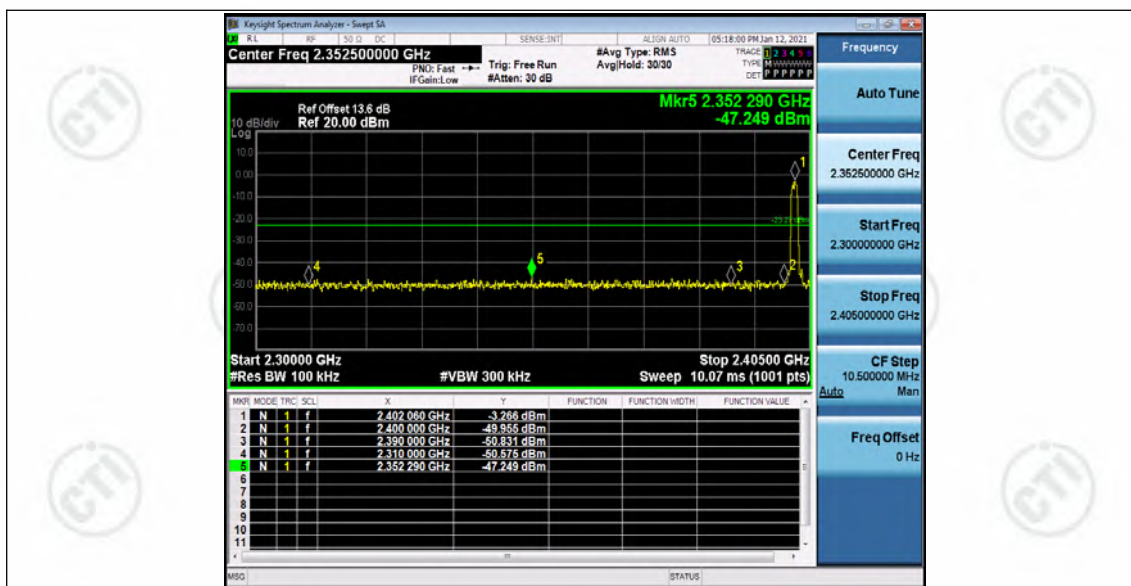
2DH5_Ant1_High_2480



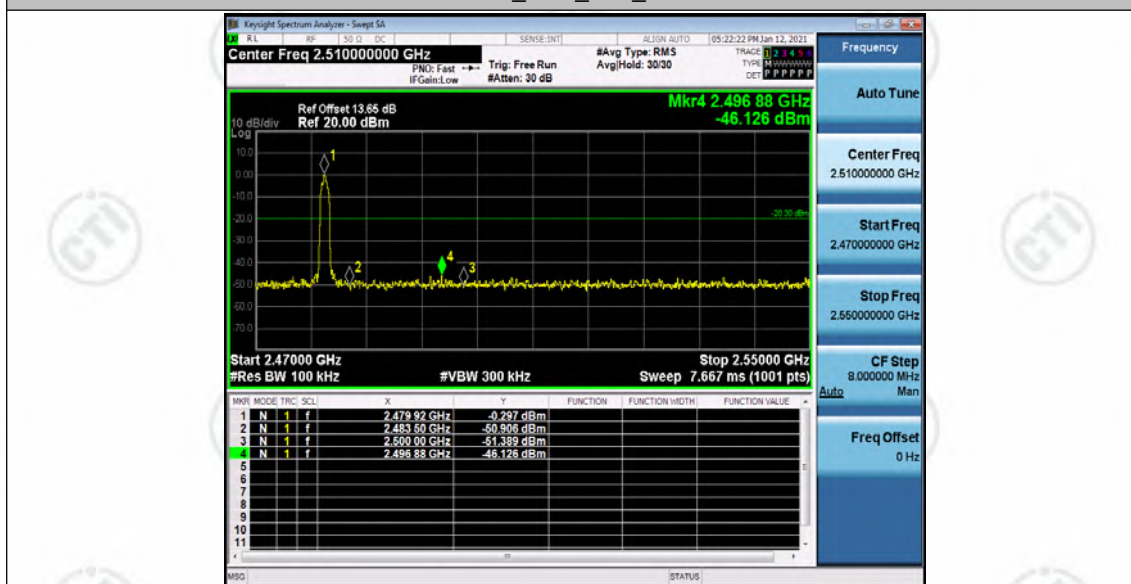
2DH5_Ant1_Low_Hop_2402



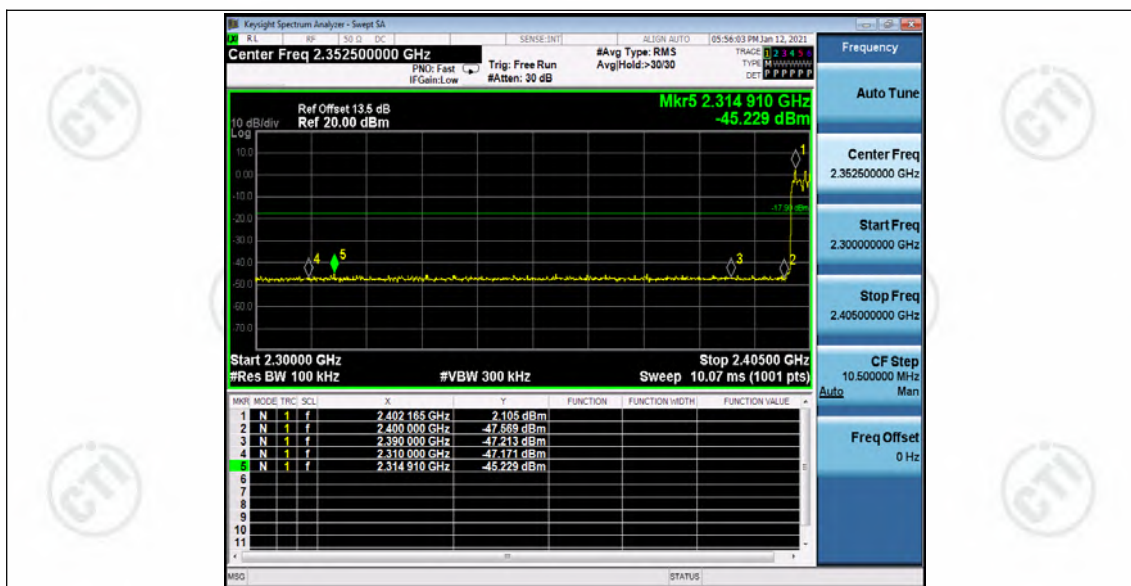
2DH5_Ant1_High_Hop_2480



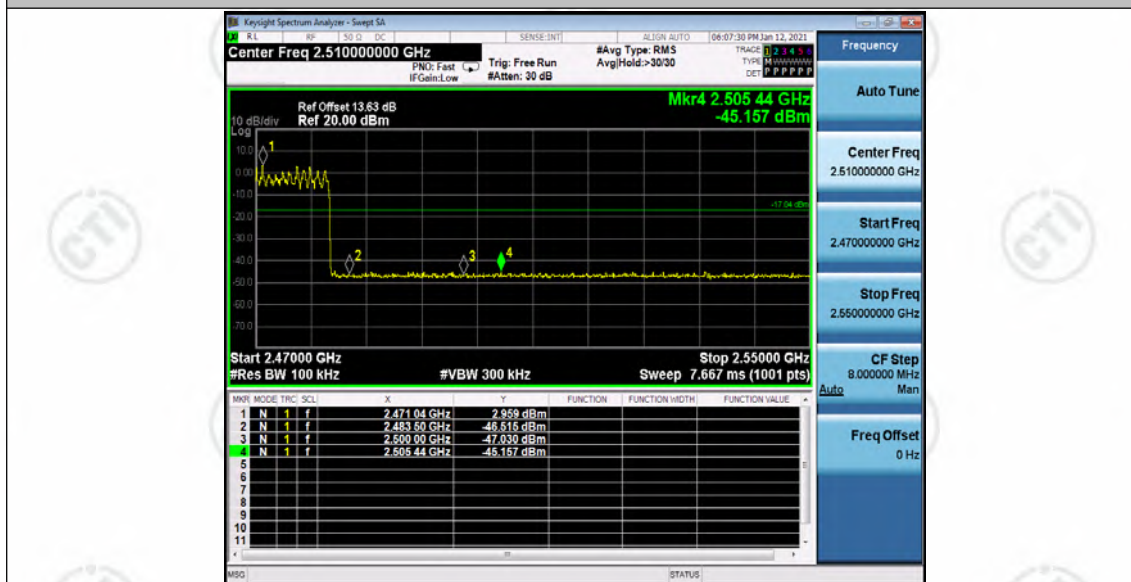
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



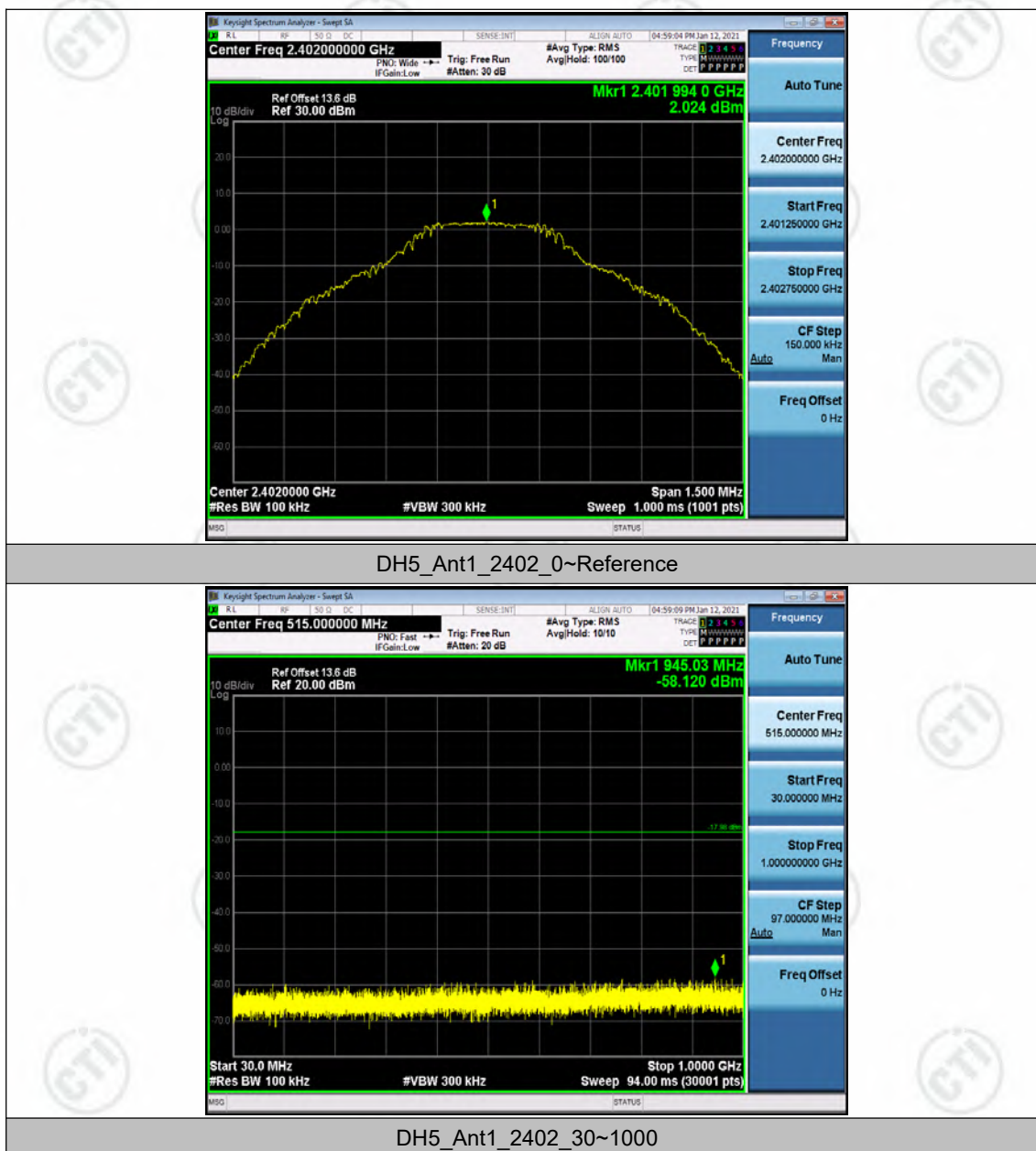
3DH5_Ant1_High_Hop_2480

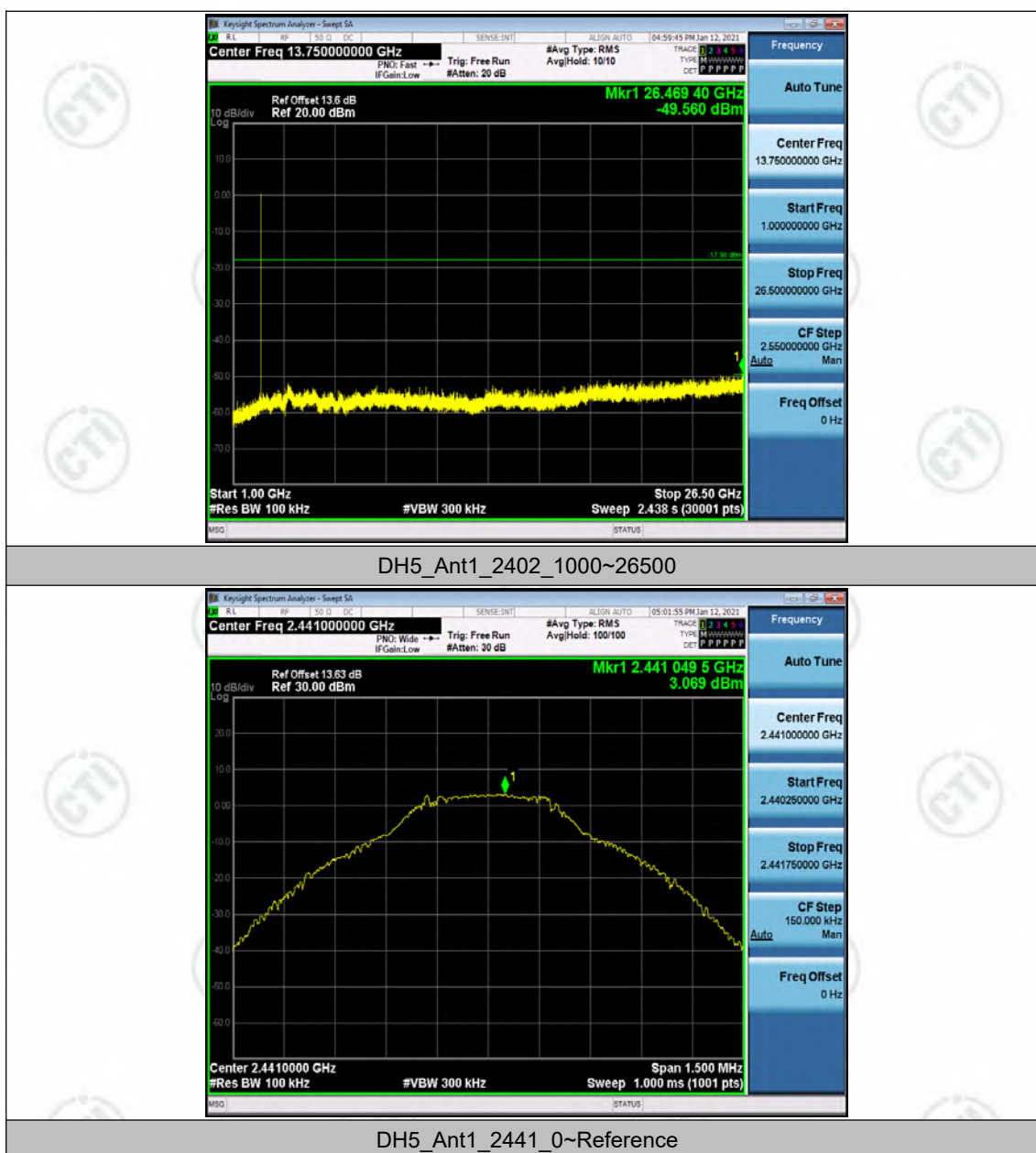
Appendix H:Conducted Spurious Emission

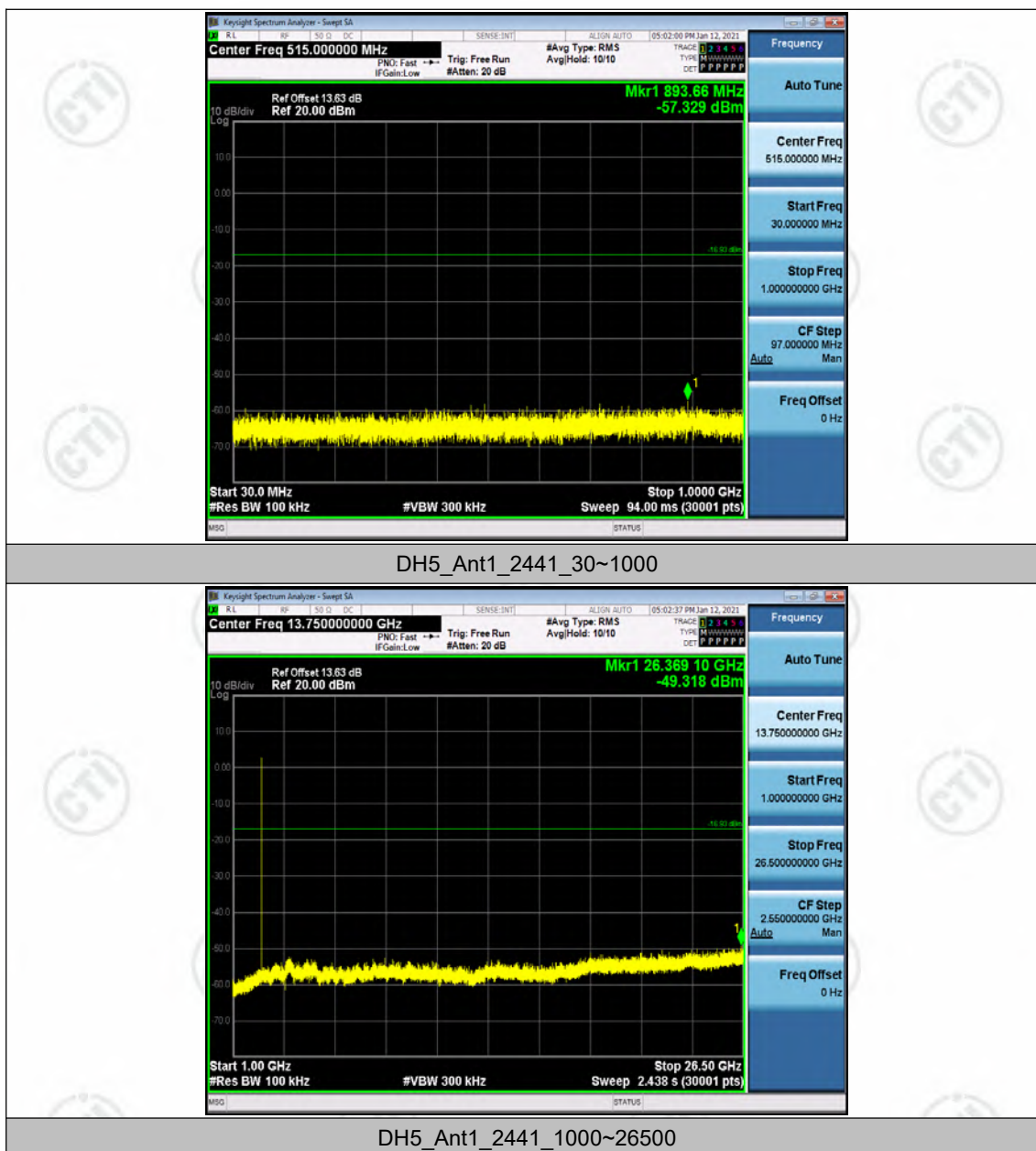
Test Result

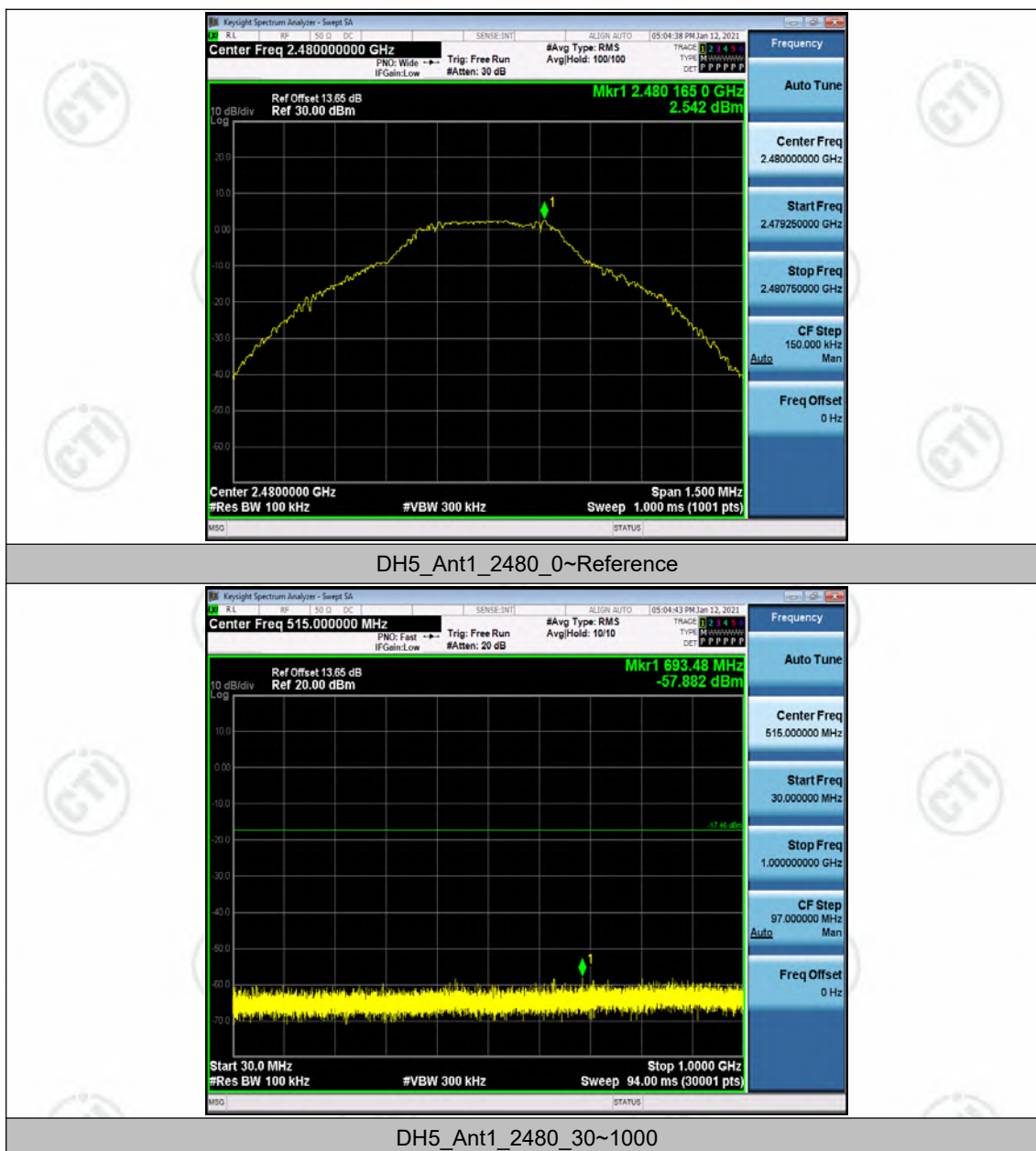
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.02	2.02	---	PASS
			30~1000	30~1000	-58.12	<=-17.976	PASS
			1000~26500	1000~26500	-49.56	<=-17.976	PASS
		2441	Reference	3.07	3.07	---	PASS
			30~1000	30~1000	-57.329	<=-16.931	PASS
			1000~26500	1000~26500	-49.318	<=-16.931	PASS
		2480	Reference	2.54	2.54	---	PASS
			30~1000	30~1000	-57.882	<=-17.458	PASS
			1000~26500	1000~26500	-49.565	<=-17.458	PASS
2DH5	Ant1	2402	Reference	1.46	1.46	---	PASS
			30~1000	30~1000	-58.436	<=-18.544	PASS
			1000~26500	1000~26500	-49.801	<=-18.544	PASS
		2441	Reference	9.80	9.80	---	PASS
			30~1000	30~1000	-58.256	<=-10.196	PASS
			1000~26500	1000~26500	-49.505	<=-10.196	PASS
		2480	Reference	1.94	1.94	---	PASS
			30~1000	30~1000	-57.651	<=-18.062	PASS
			1000~26500	1000~26500	-49.471	<=-18.062	PASS
3DH5	Ant1	2402	Reference	1.58	1.58	---	PASS
			30~1000	30~1000	-56.57	<=-18.421	PASS
			1000~26500	1000~26500	-49.283	<=-18.421	PASS
		2441	Reference	1.97	1.97	---	PASS
			30~1000	30~1000	-55.344	<=-18.027	PASS
			1000~26500	1000~26500	-49.296	<=-18.027	PASS
		2480	Reference	2.02	2.02	---	PASS
			30~1000	30~1000	-57.294	<=-17.98	PASS
			1000~26500	1000~26500	-48.722	<=-17.98	PASS

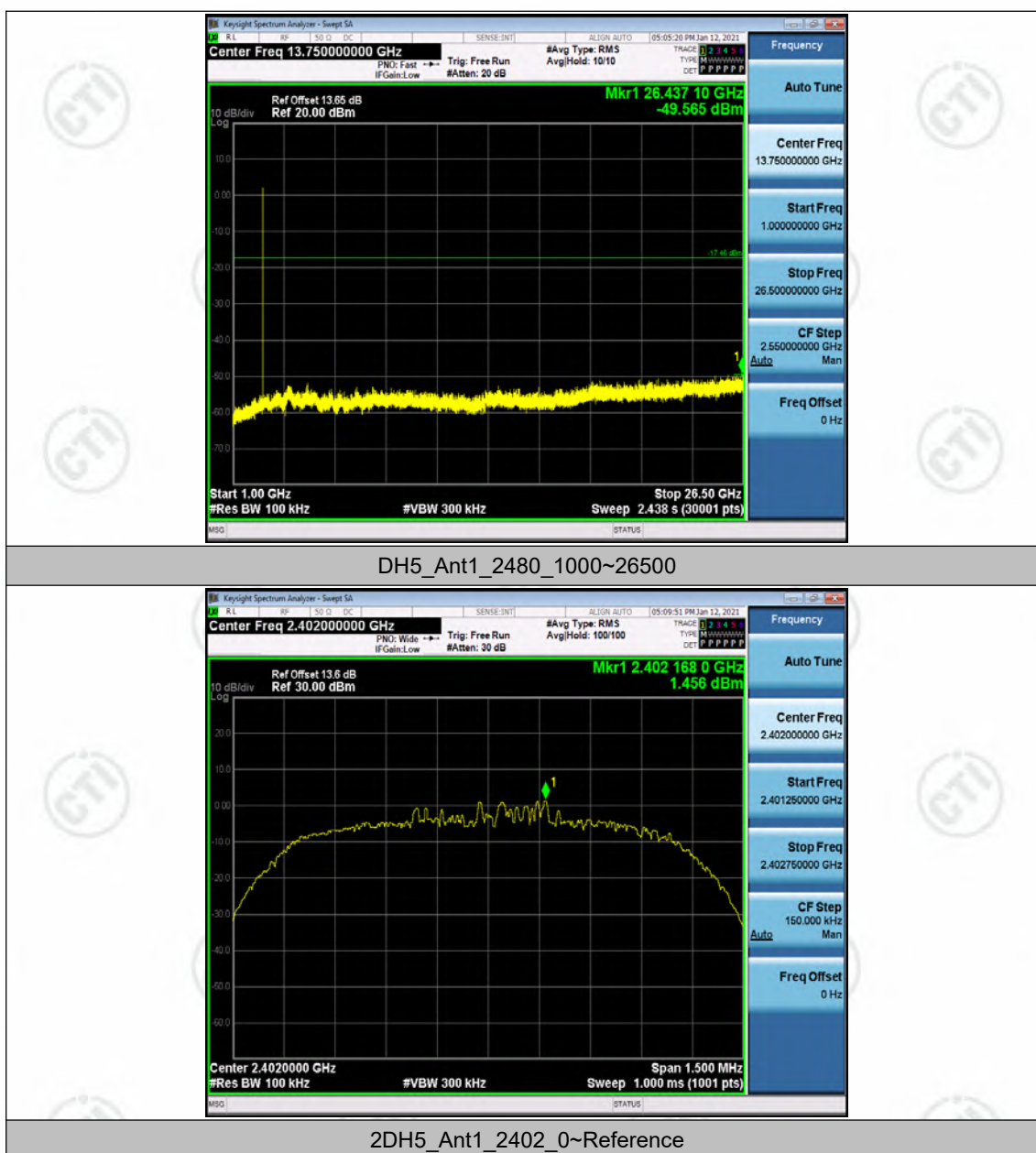
Test Graphs

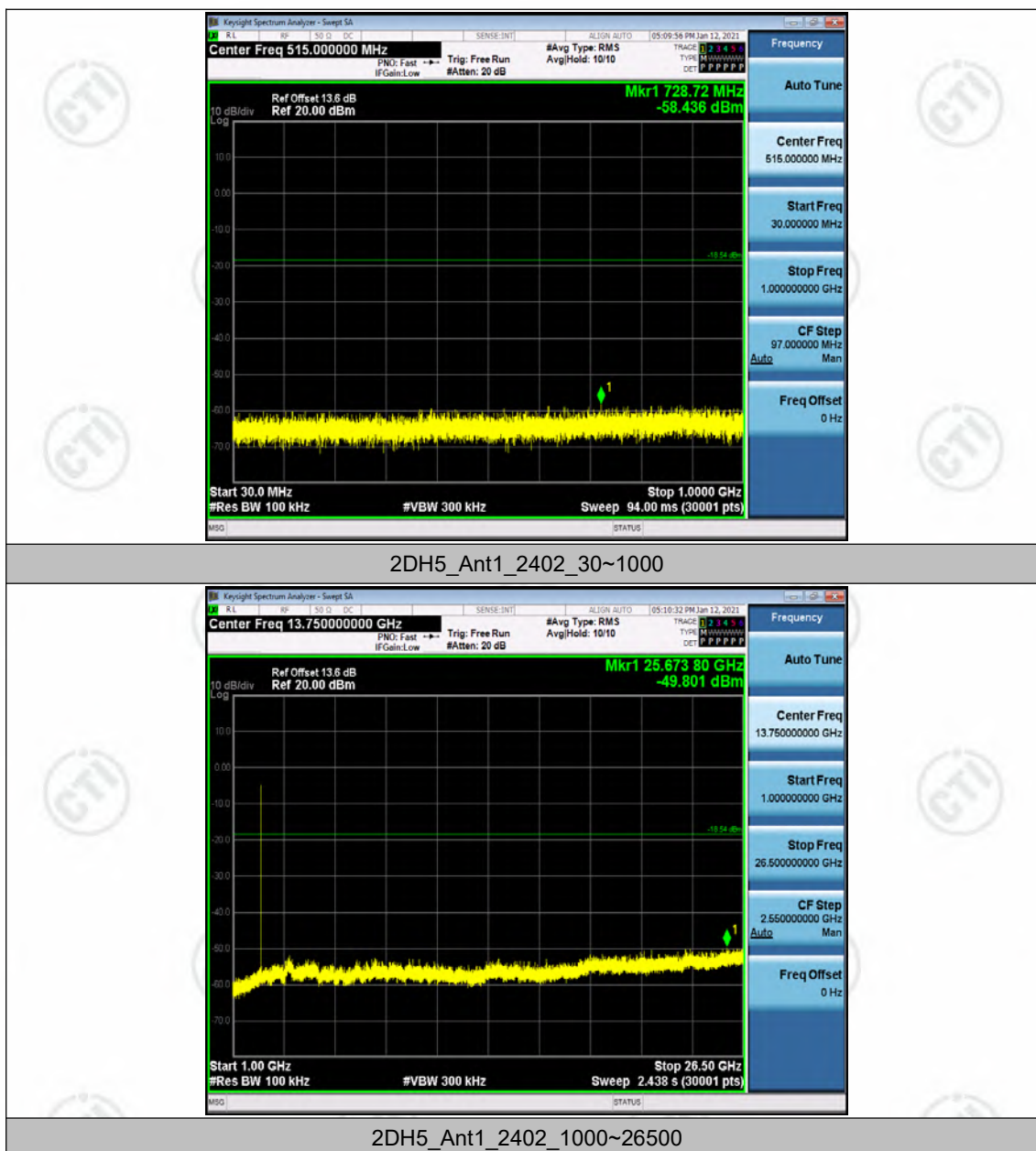


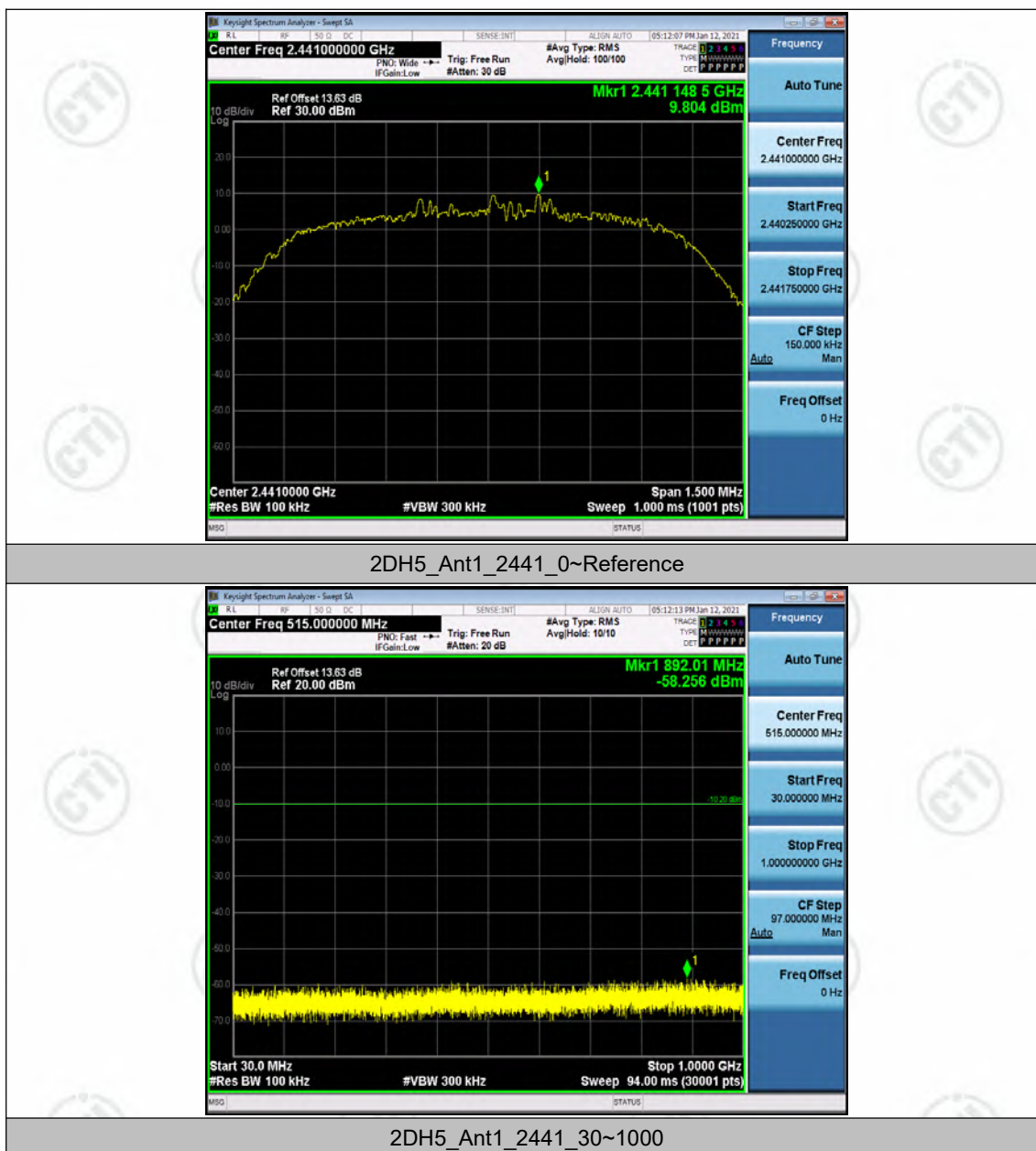


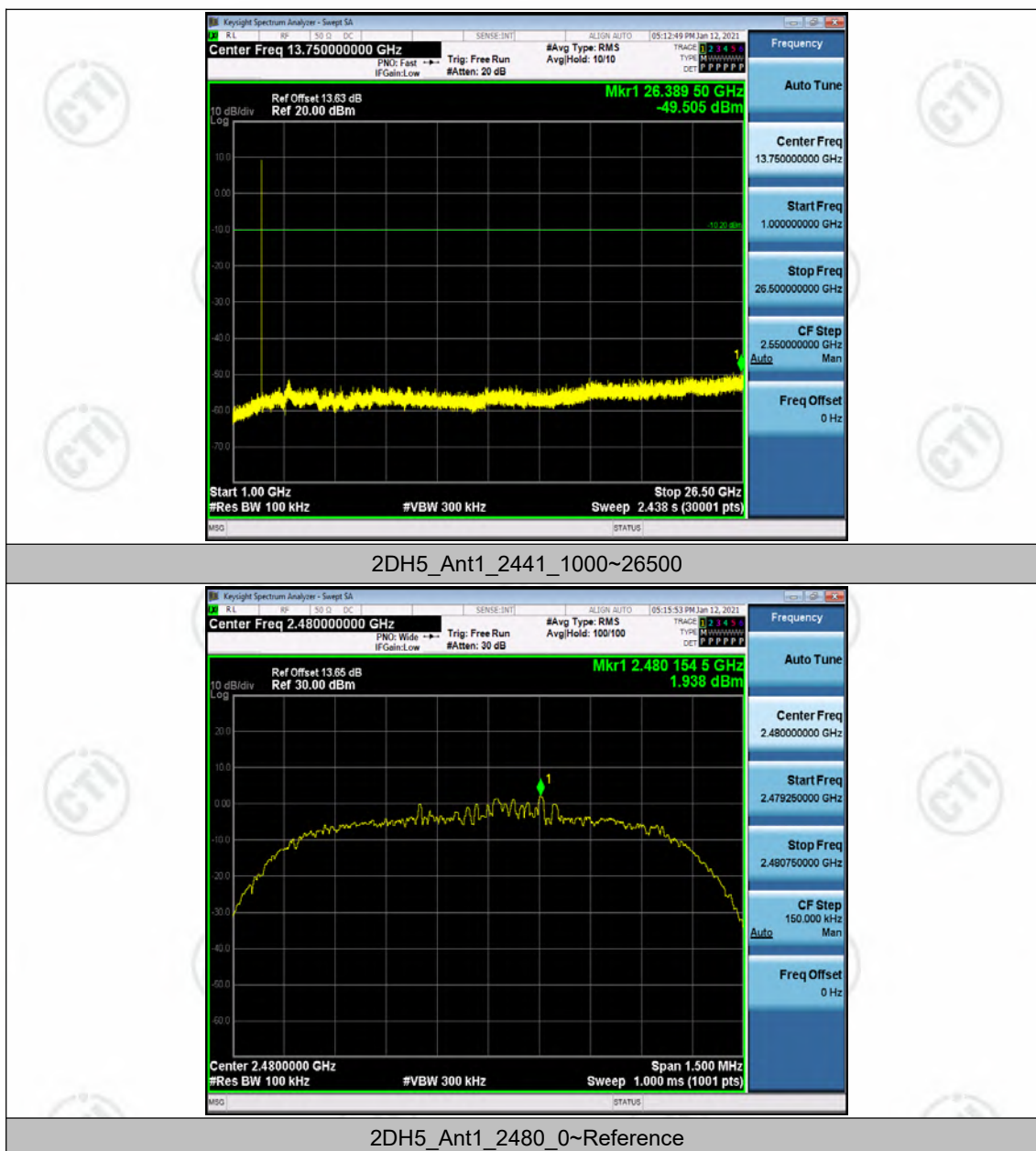


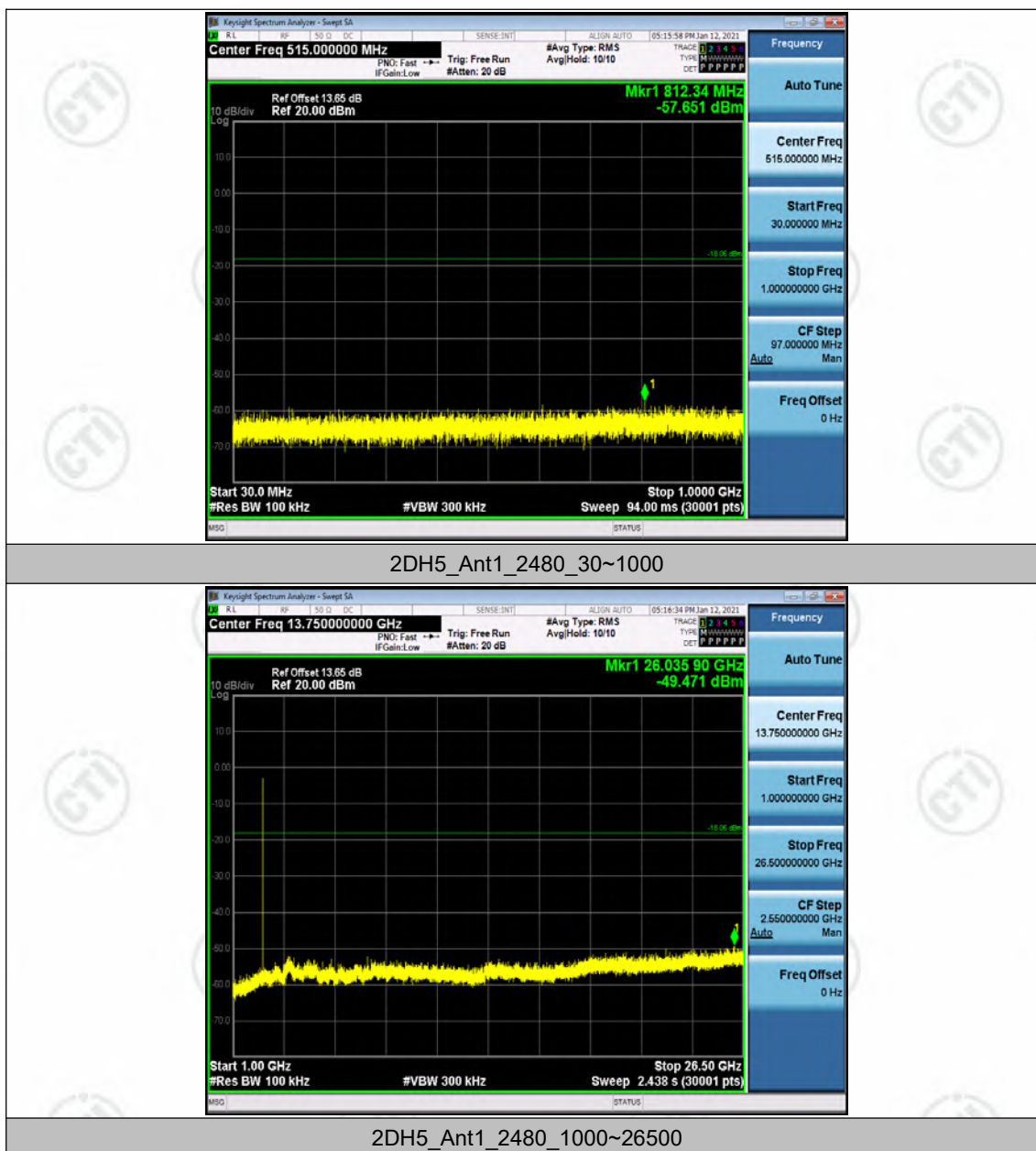


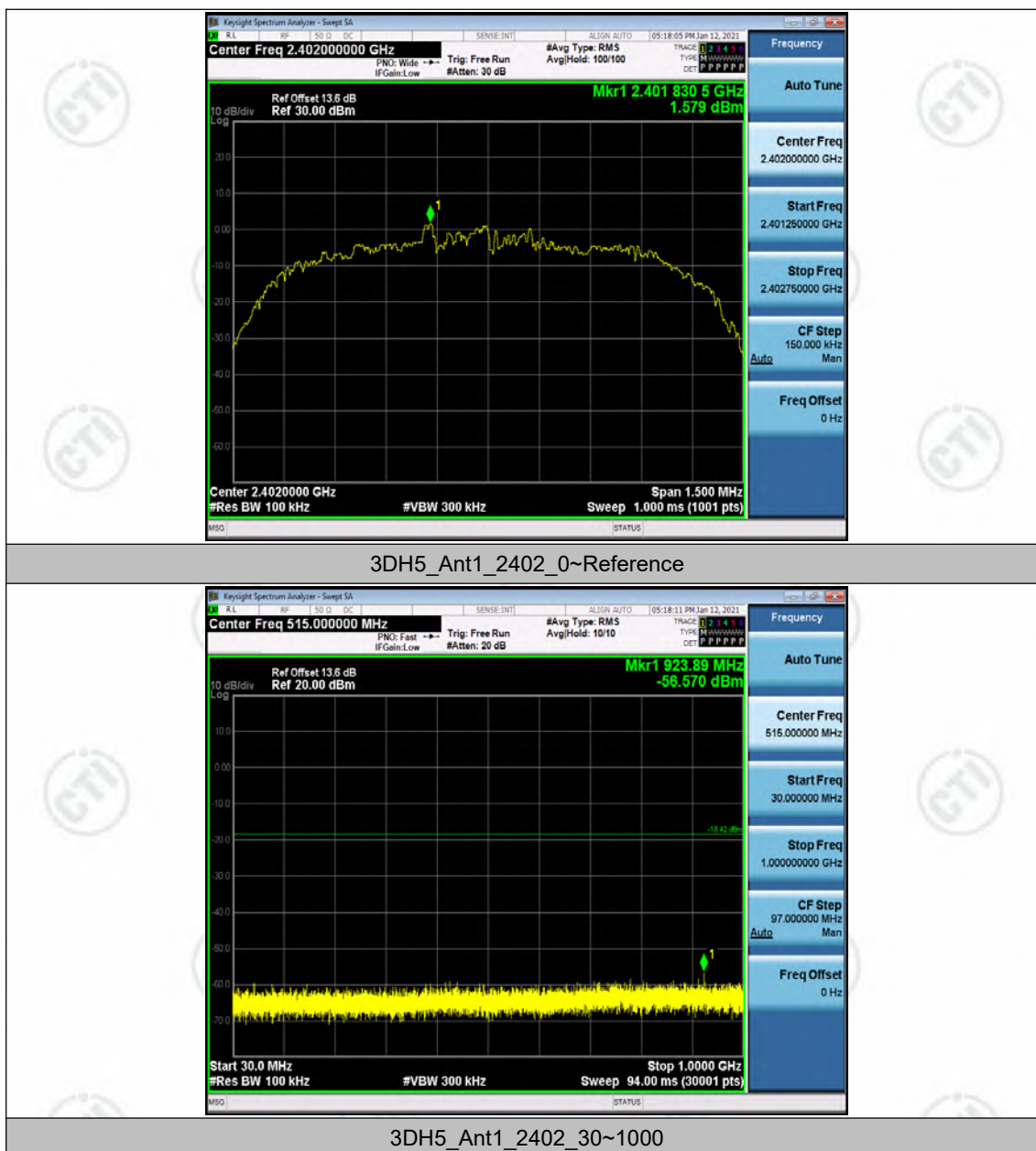


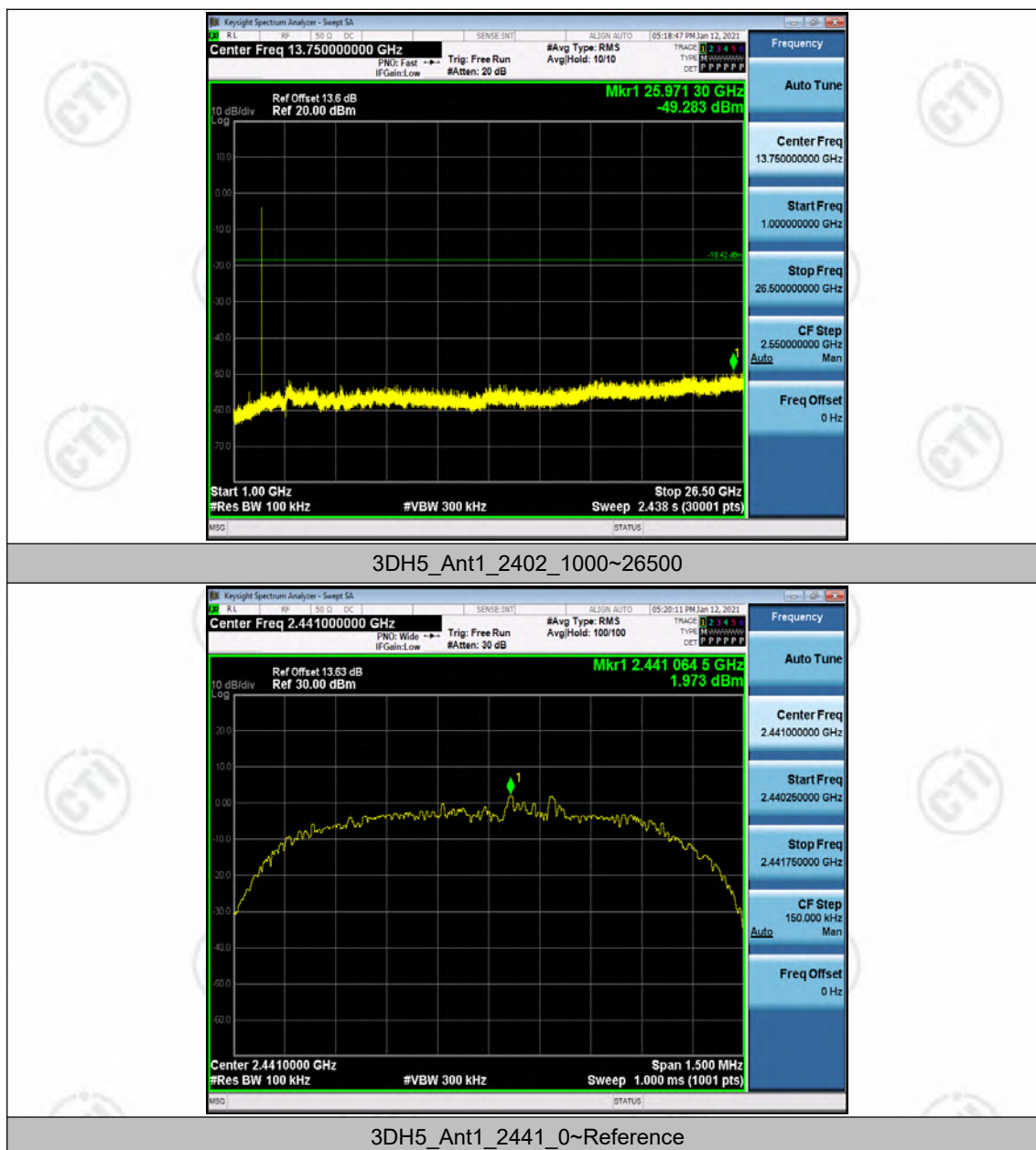


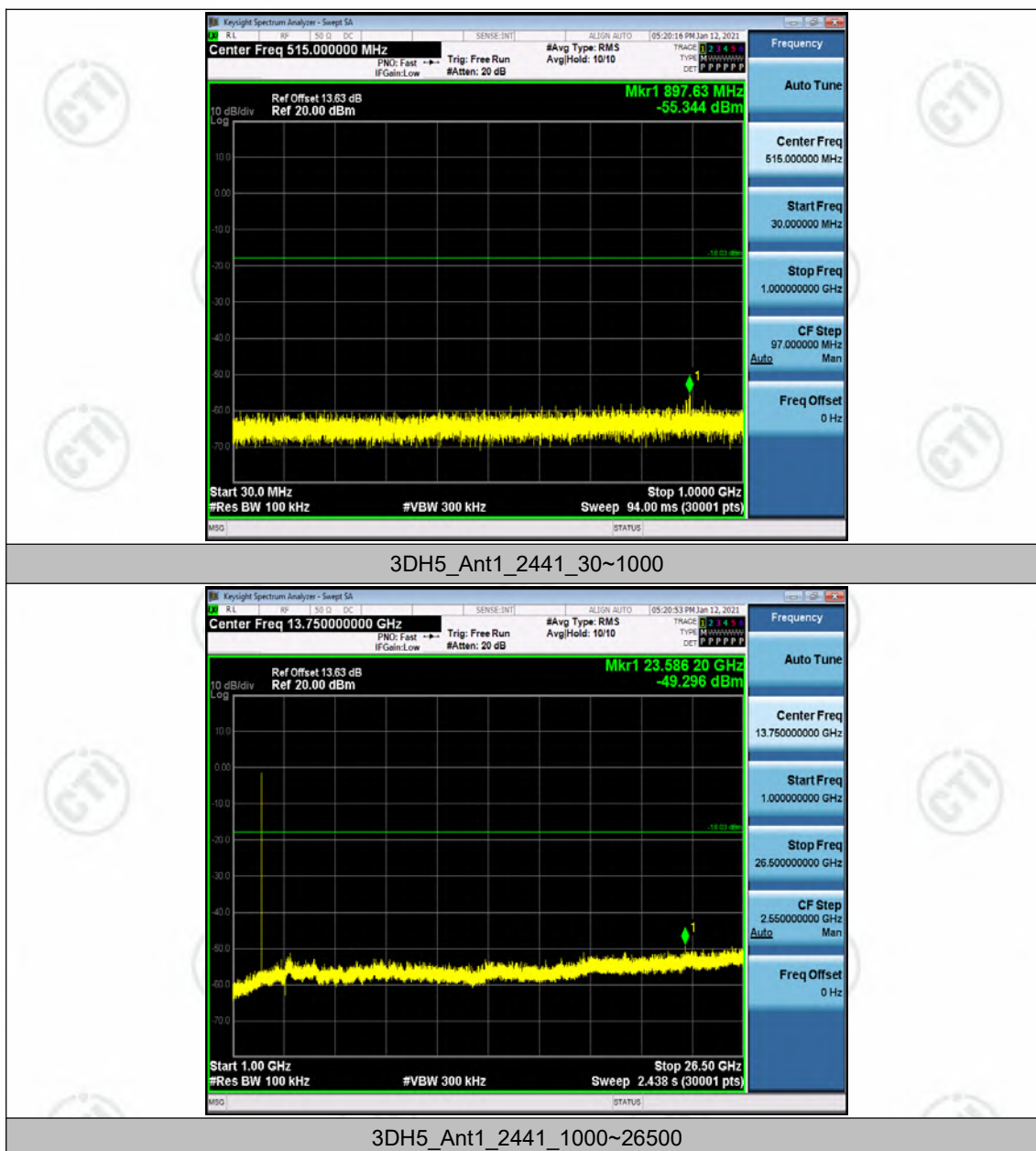


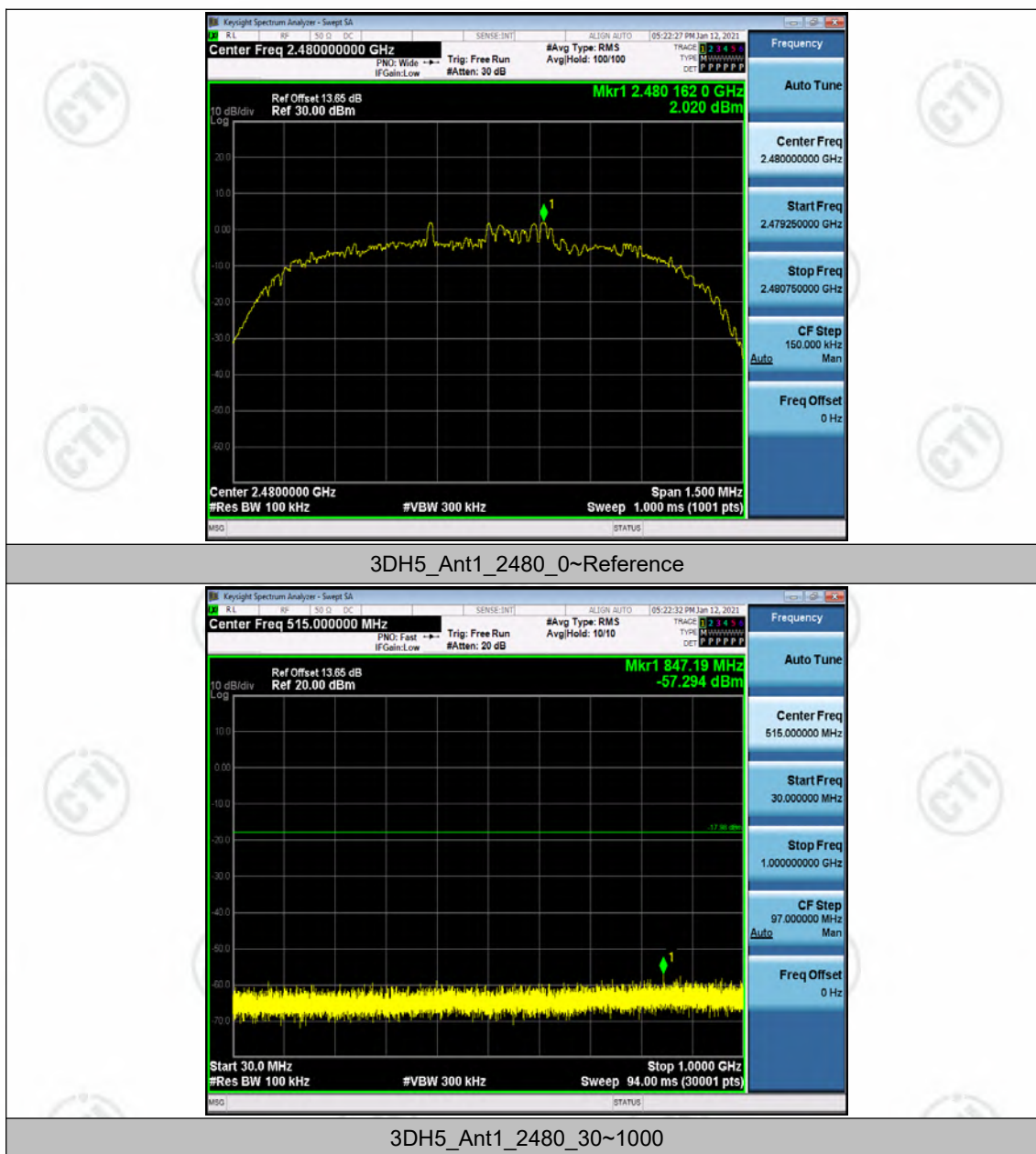


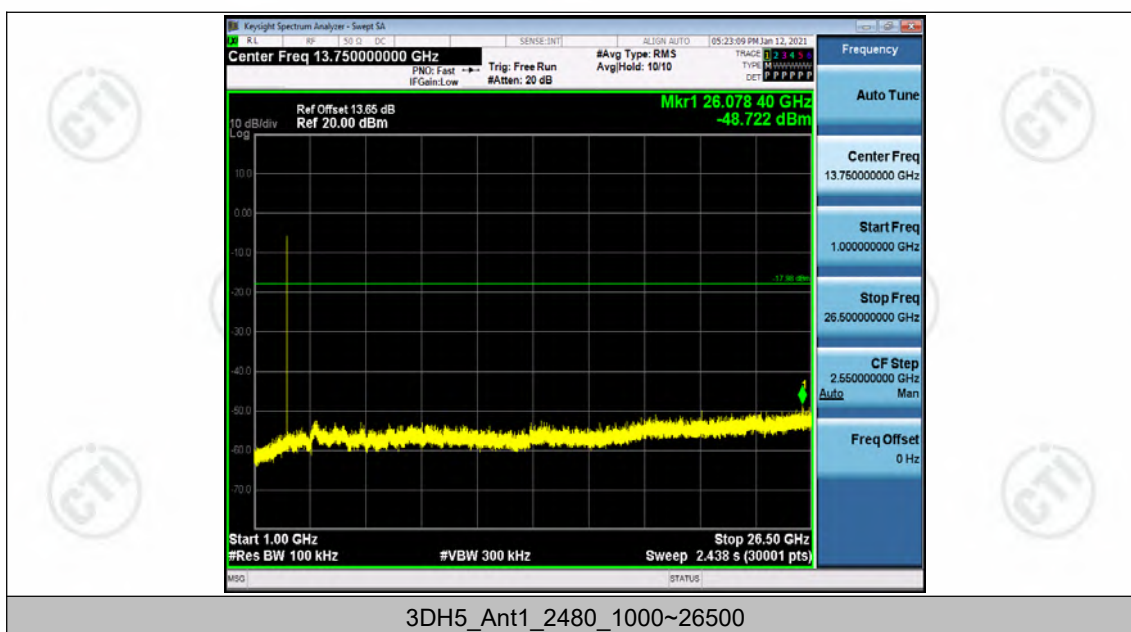












Appendix I: DutyCycle

Test Result

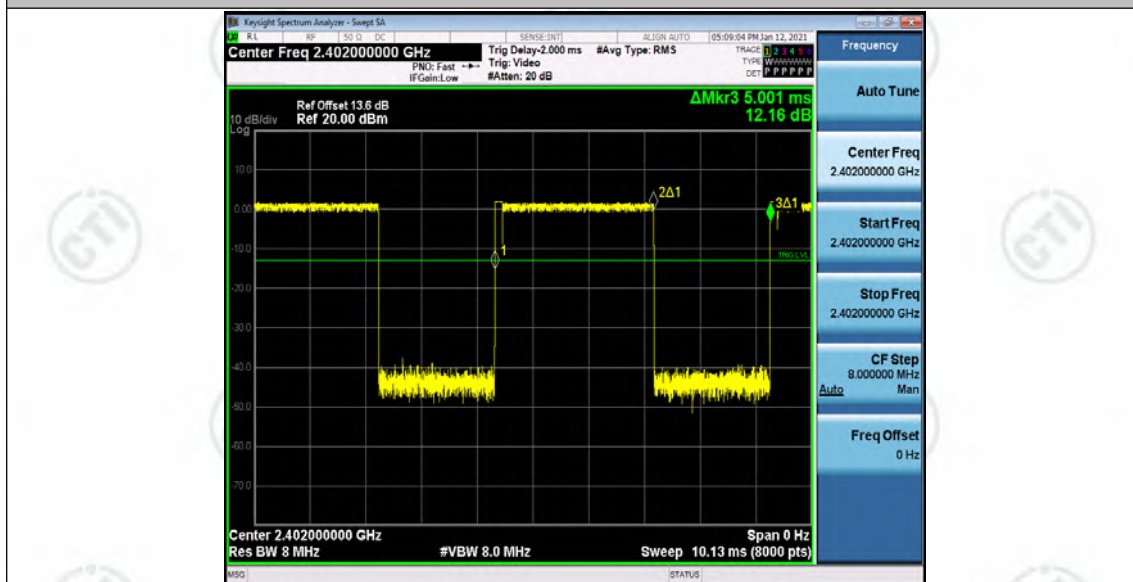
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.88	5.00	57.61	---	PASS
		2441	2.88	5.00	57.61	---	PASS
		2480	2.88	5.00	57.60	---	PASS
2DH5	Ant1	2402	2.88	5.00	57.67	---	PASS
		2441	2.88	5.00	57.67	---	PASS
		2480	2.88	5.00	57.66	---	PASS
3DH5	Ant1	2402	2.89	5.00	57.71	---	PASS
		2441	2.89	5.00	57.71	---	PASS
		2480	2.89	5.00	57.73	---	PASS

Test Graphs

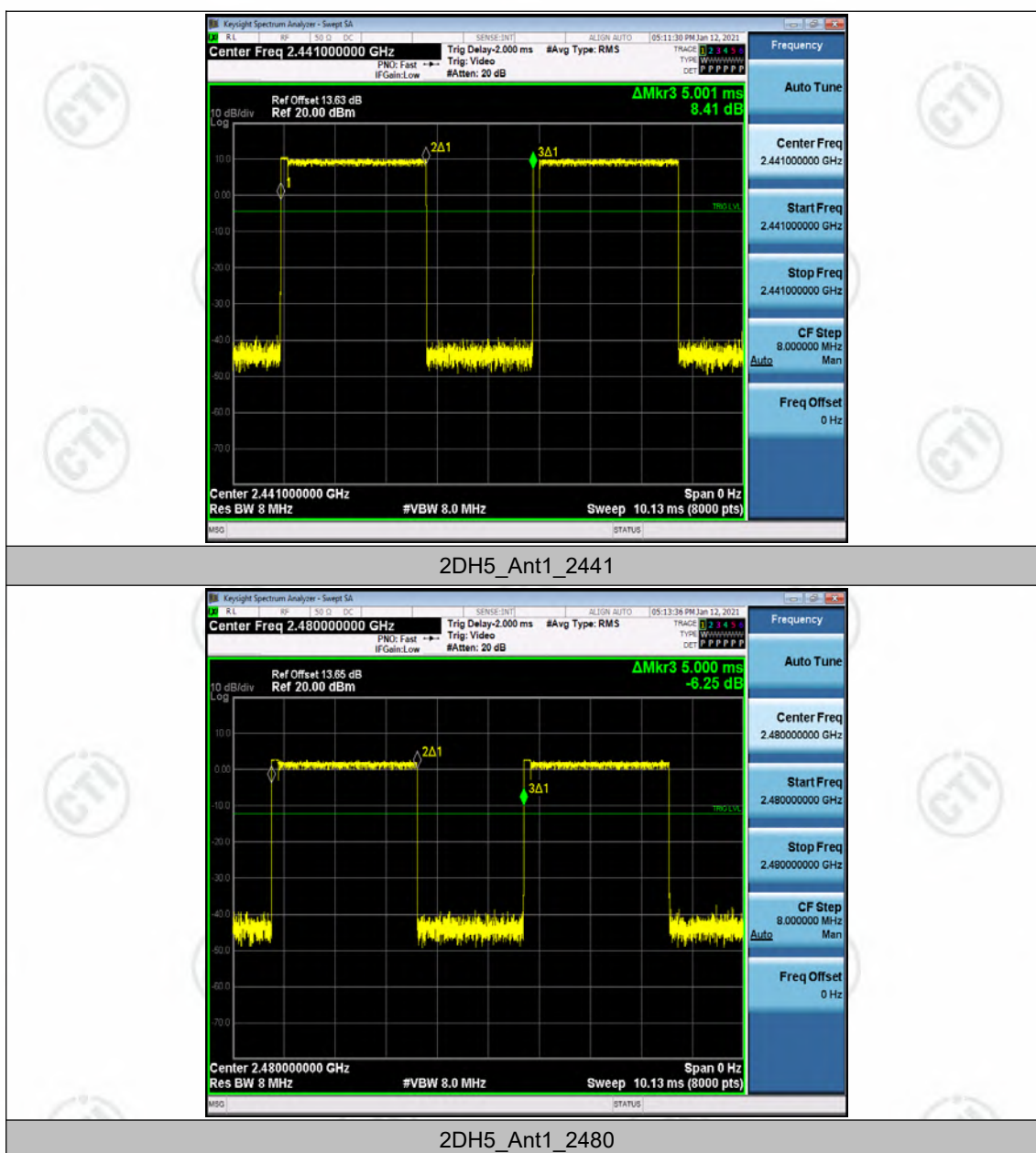




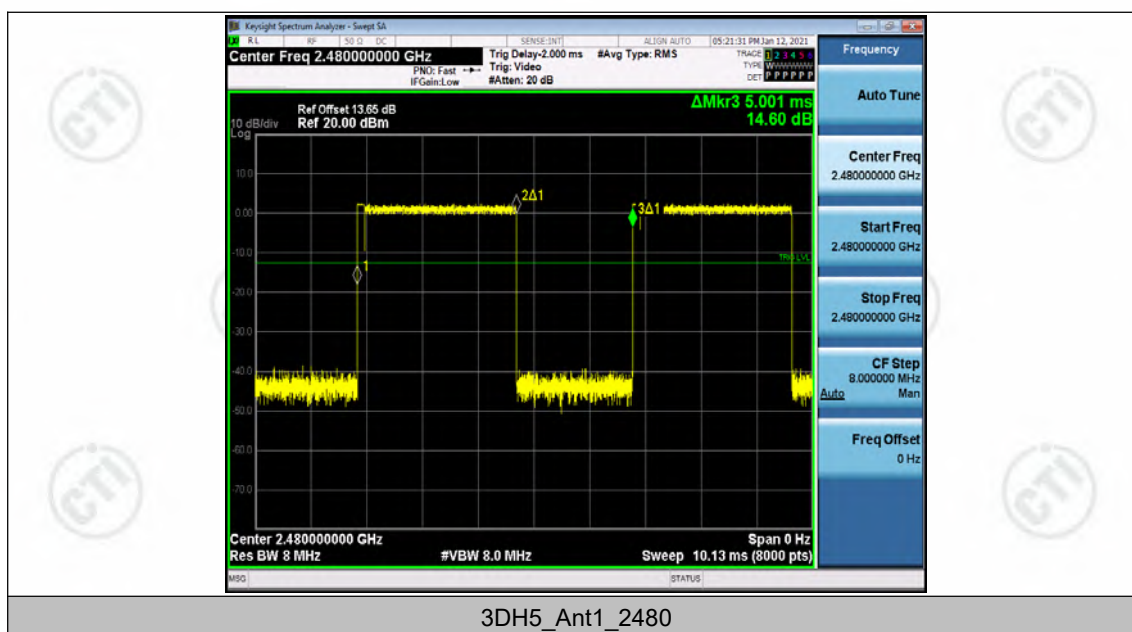
DH5_Ant1_2480



2DH5_Ant1_2402







*** End of Report ***