

Appendix: Bluetooth Classic

Contents

Appendix A: 20dB Emission 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
Test Graphs.....	16
Appendix D: Carrier frequency separation.....	21
Test Result.....	21
Test Graphs.....	22
Appendix E: Time of occupancy.....	27
Test Result.....	27
Test Graphs.....	28
Appendix F: Number of hopping channels.....	37
Test Result.....	37
Test Graphs.....	38
Appendix G:Band edge measurements.....	40
Test Result.....	40
Test Graphs.....	41
Appendix H:Conducted Spurious Emission.....	47
Test Result.....	47
Test Graphs.....	48
Appendix I: Duty Cycle.....	62
Test Result.....	62
Test Graphs.....	63

Appendix A: 20dB Emission Bandwidth**Test Result**

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.535	2402.483	---	PASS
		2441	0.948	2440.529	2441.477	---	PASS
		2480	0.945	2479.529	2480.474	---	PASS
2DH5	Ant1	2402	1.236	2401.364	2402.600	---	PASS
		2441	1.236	2440.364	2441.600	---	PASS
		2480	1.236	2479.364	2480.600	---	PASS
3DH5	Ant1	2402	1.254	2401.352	2402.606	---	PASS
		2441	1.254	2440.352	2441.606	---	PASS
		2480	1.254	2479.355	2480.609	---	PASS

Test Graphs



DH5_Ant1_2402



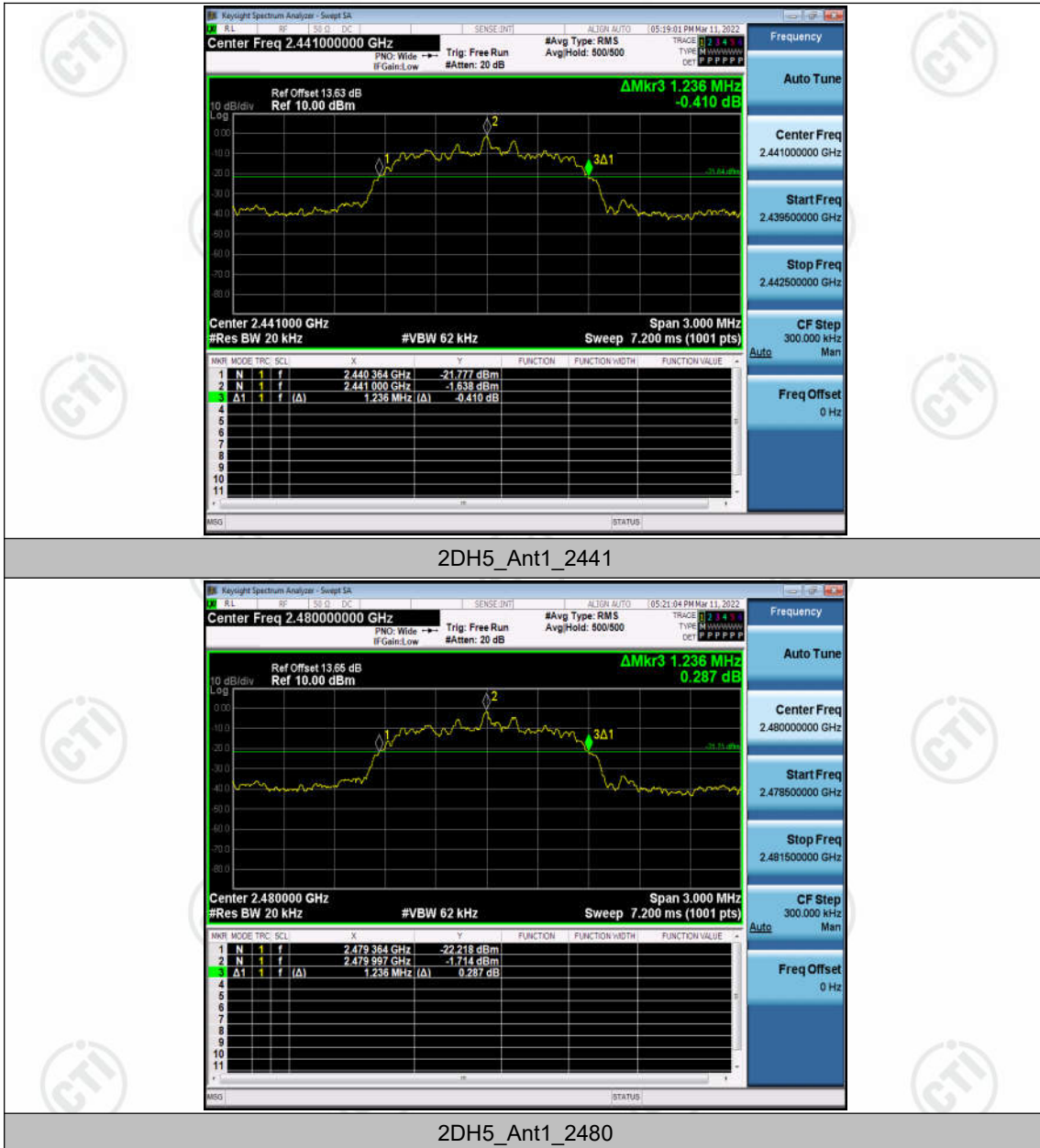
DH5_Ant1_2441



DH5_Ant1_2480

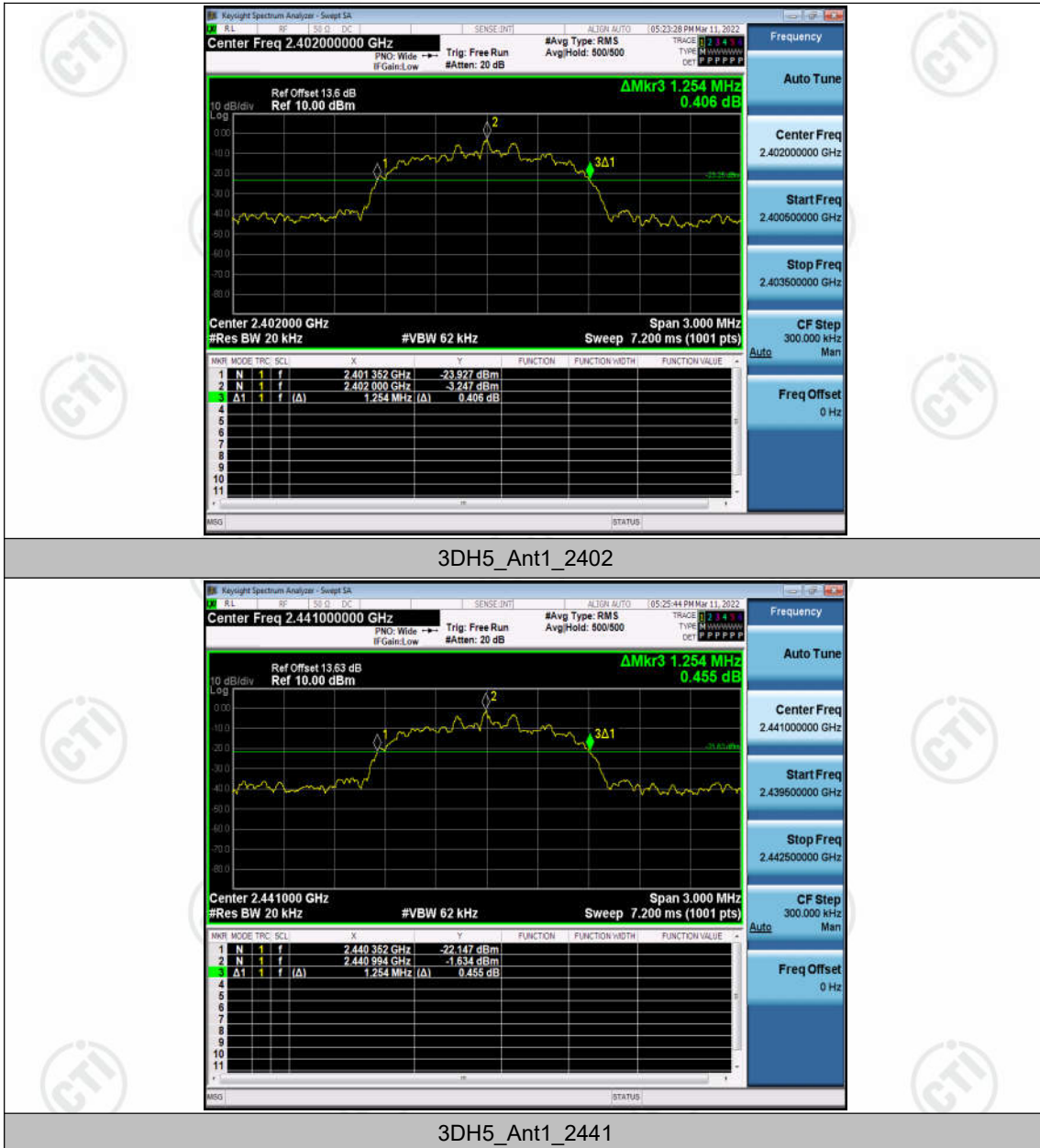


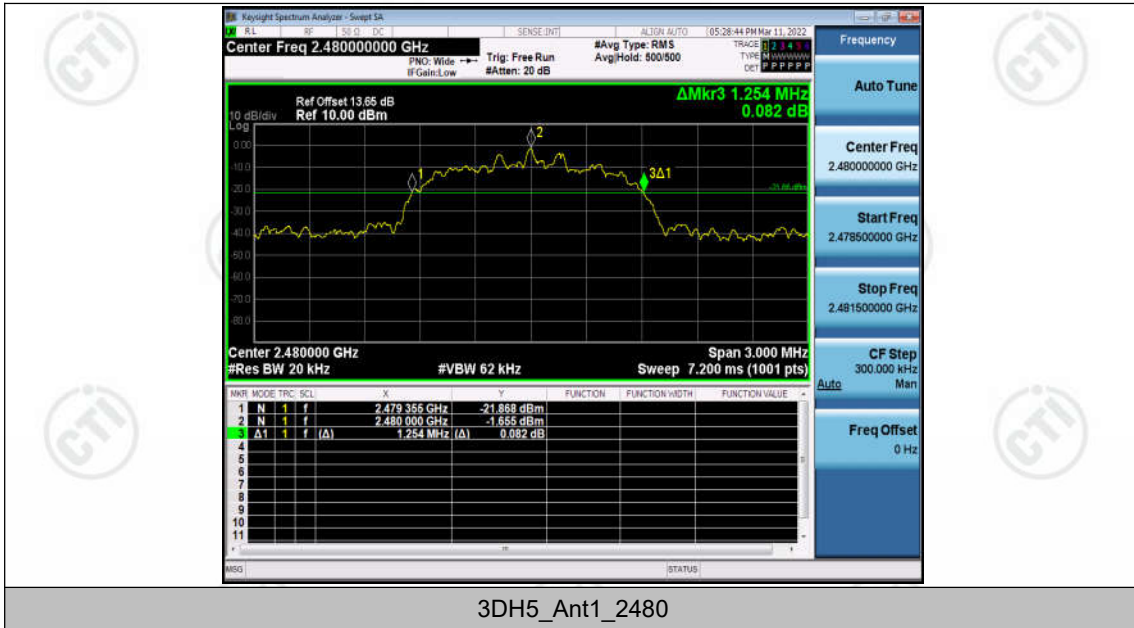
2DH5_Ant1_2402



2DH5_Ant1_2441

2DH5_Ant1_2480

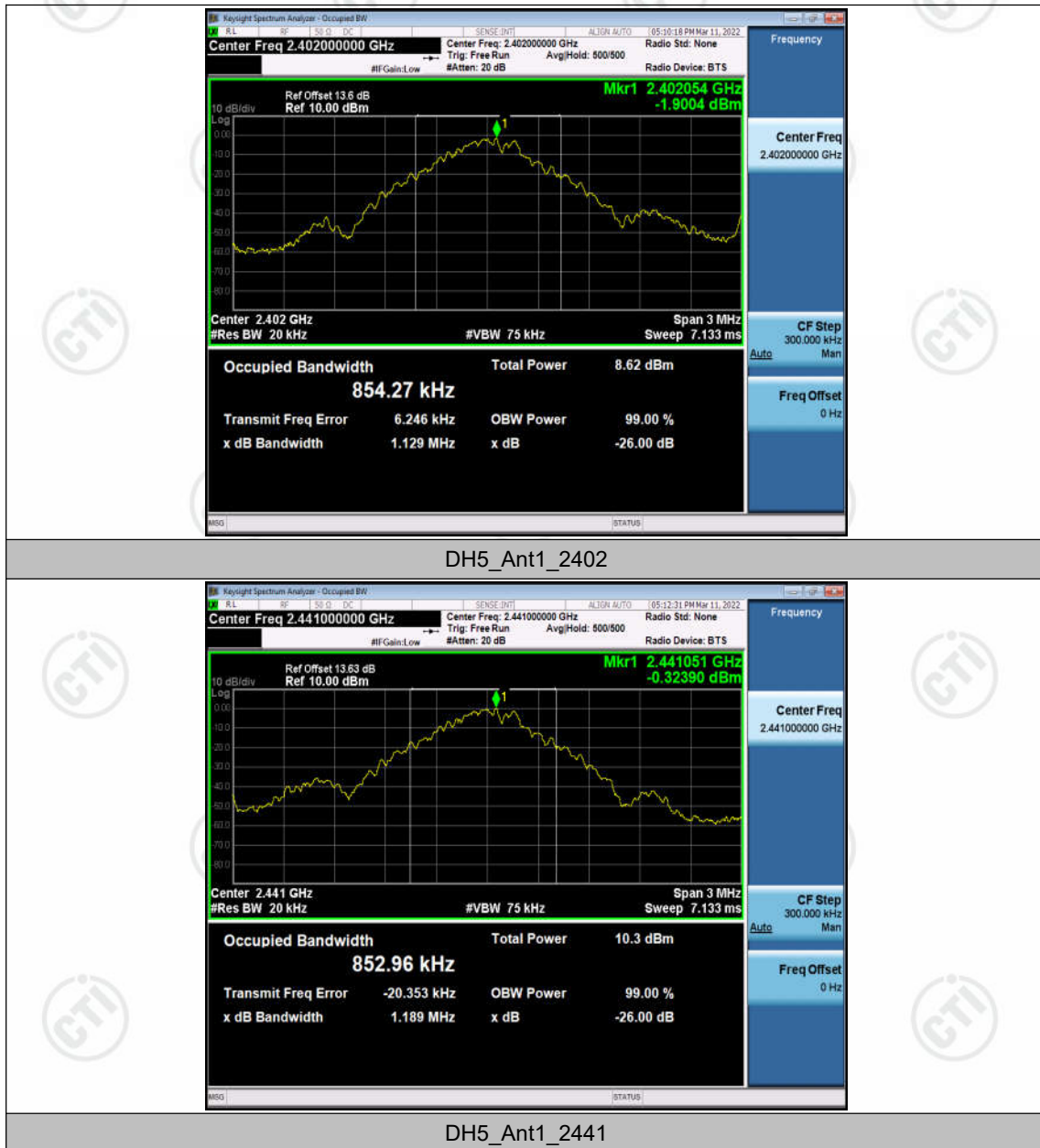


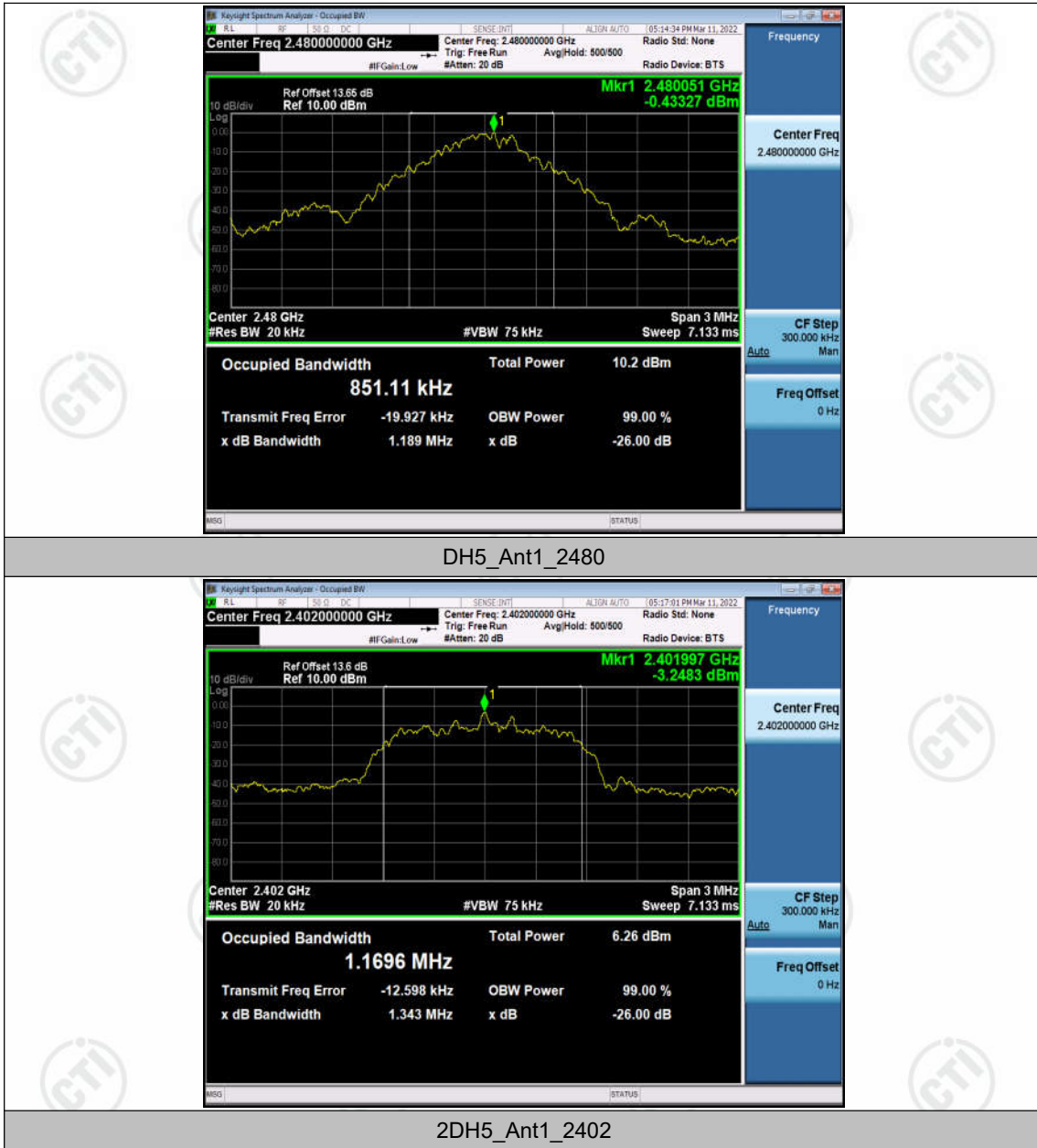


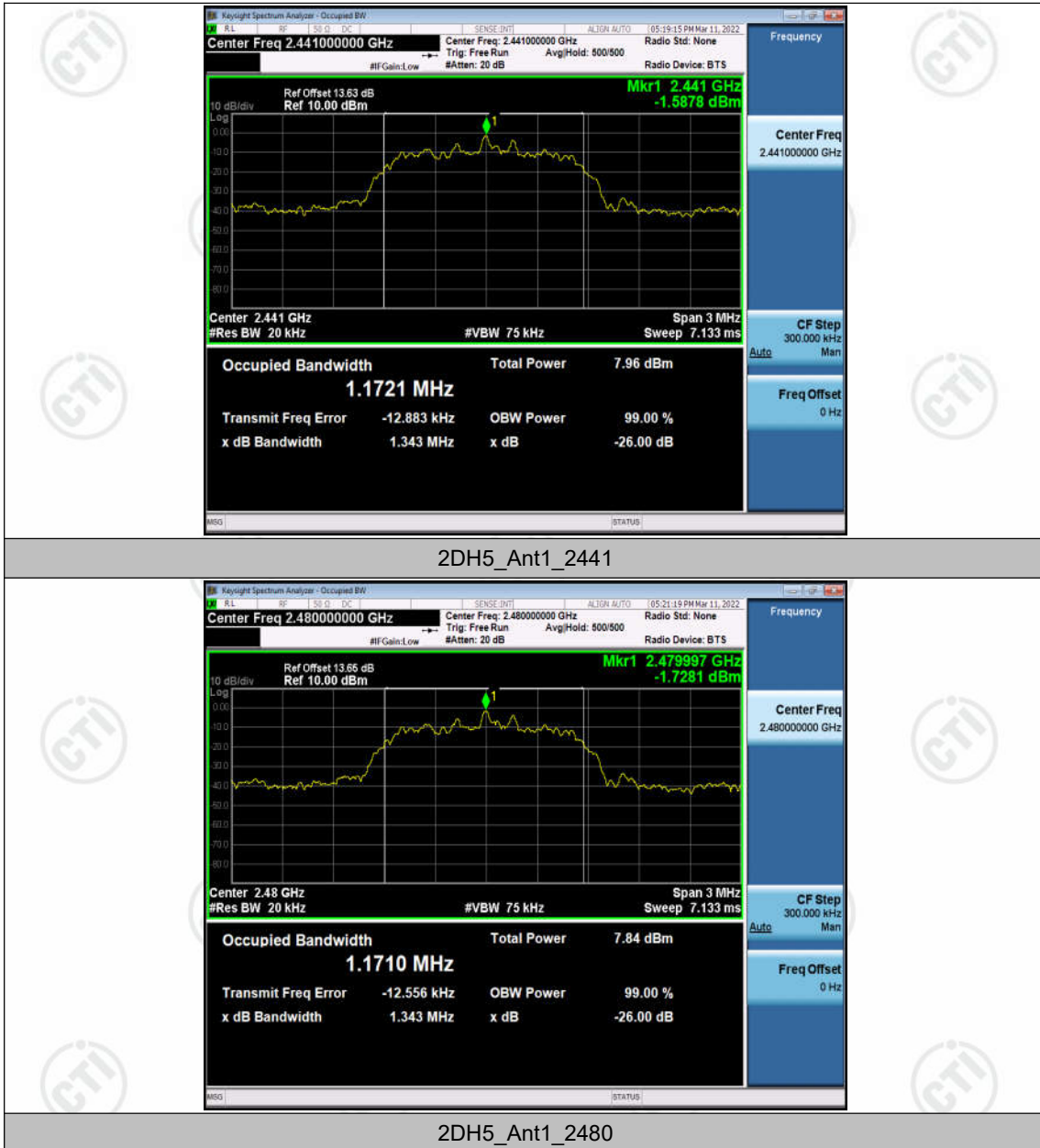
Appendix B: Occupied Channel Bandwidth**Test Result**

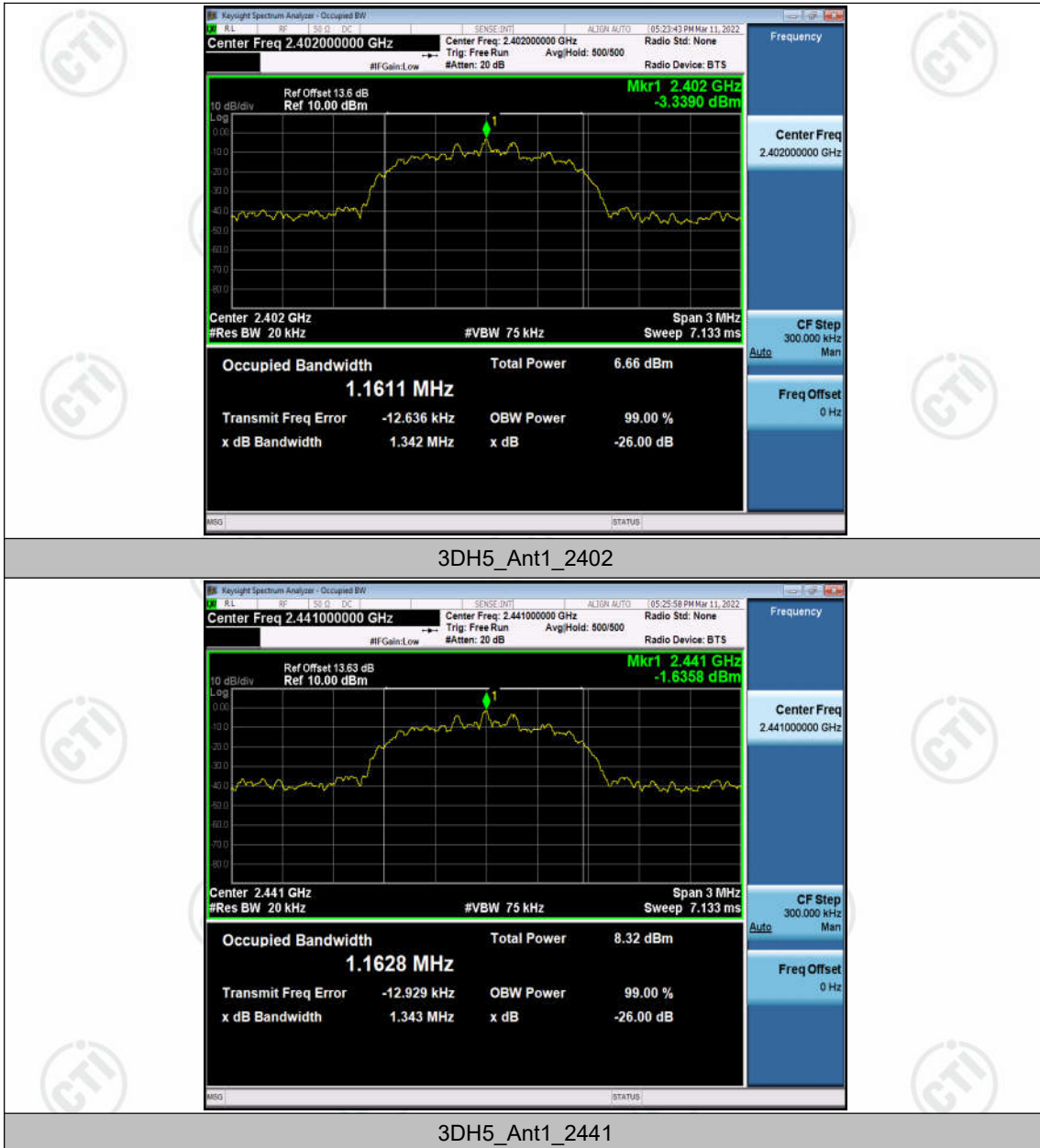
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85427	2401.579	2402.433	---	PASS
		2441	0.85296	2440.553	2441.406	---	PASS
		2480	0.85111	2479.555	2480.406	---	PASS
2DH5	Ant1	2402	1.1696	2401.403	2402.572	---	PASS
		2441	1.1721	2440.401	2441.573	---	PASS
		2480	1.1710	2479.402	2480.573	---	PASS
3DH5	Ant1	2402	1.1611	2401.407	2402.568	---	PASS
		2441	1.1628	2440.406	2441.568	---	PASS
		2480	1.1630	2479.407	2480.570	---	PASS

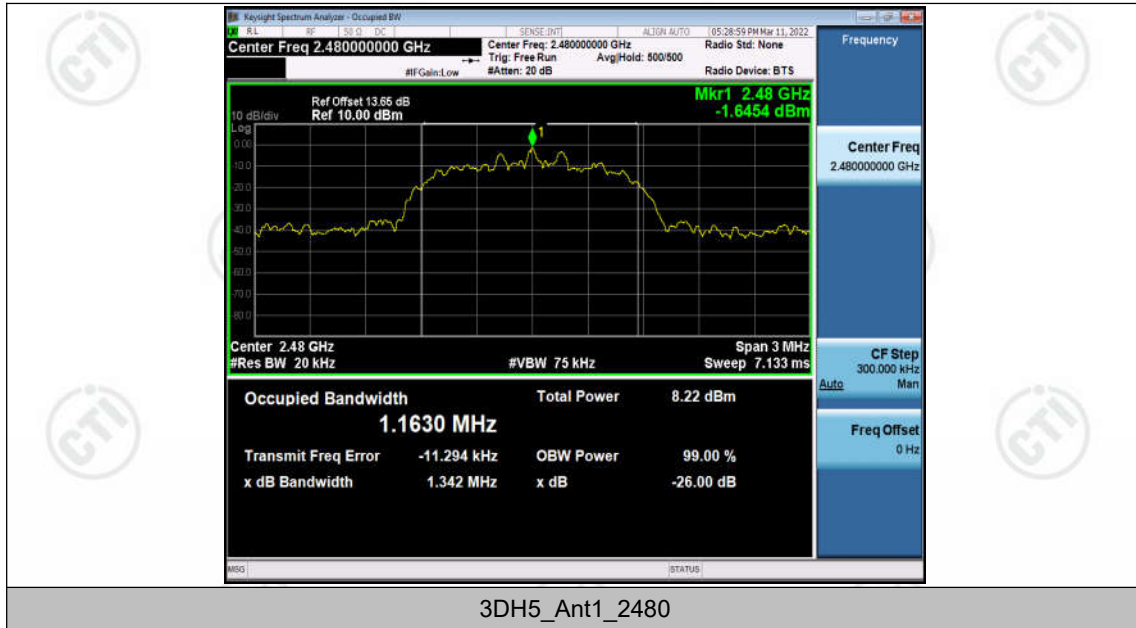
Test Graphs







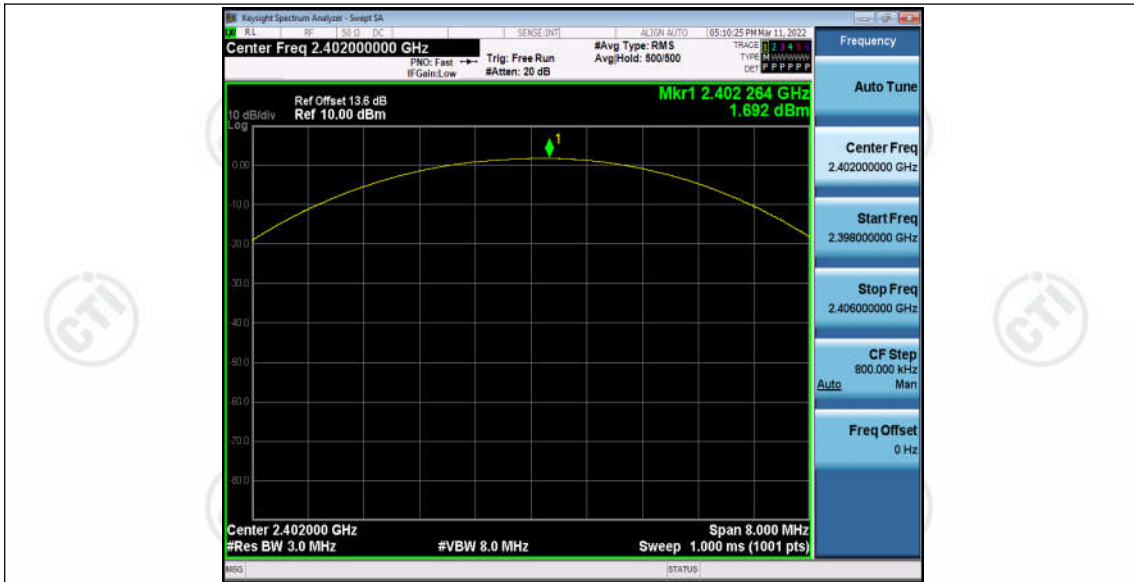




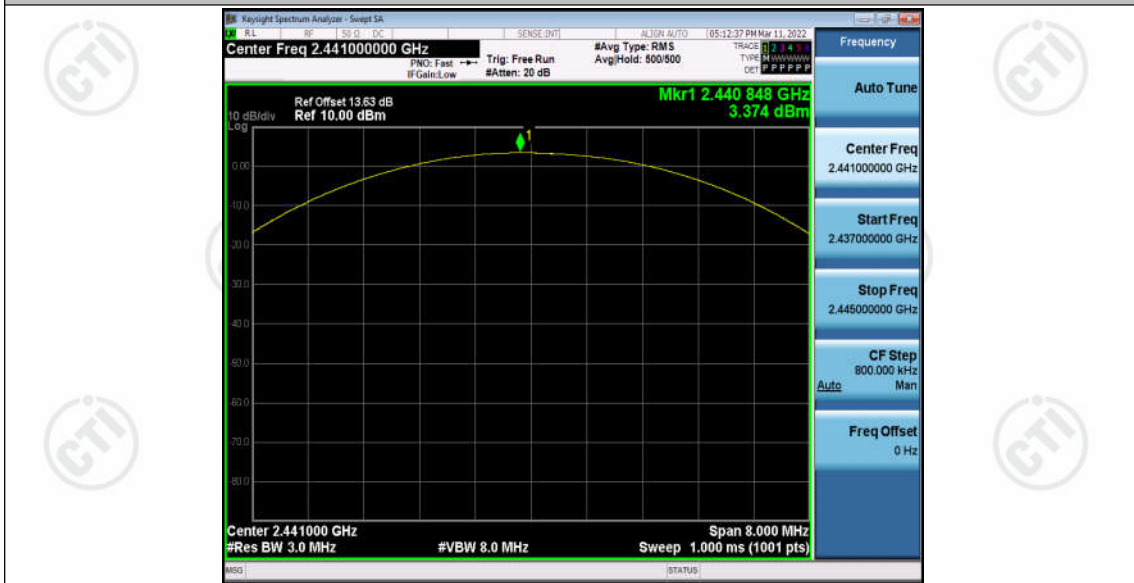
Appendix C: Maximum conducted output power**Test Result**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.69	<=20.97	PASS
		2441	3.37	<=20.97	PASS
		2480	3.2	<=20.97	PASS
2DH5	Ant1	2402	1.46	<=20.97	PASS
		2441	3.28	<=20.97	PASS
		2480	3.13	<=20.97	PASS
3DH5	Ant1	2402	2.02	<=20.97	PASS
		2441	3.95	<=20.97	PASS
		2480	3.85	<=20.97	PASS

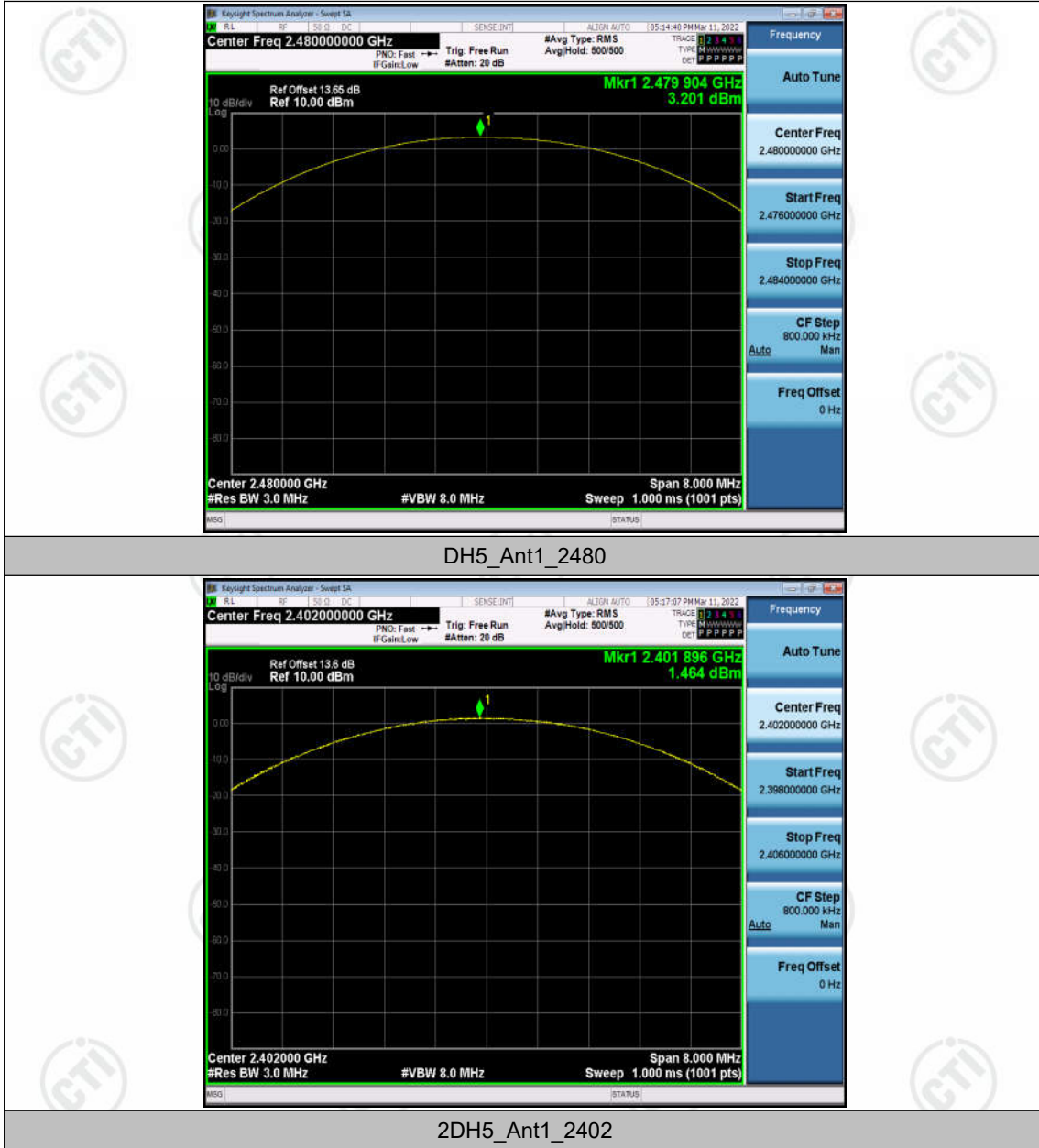
Test Graphs

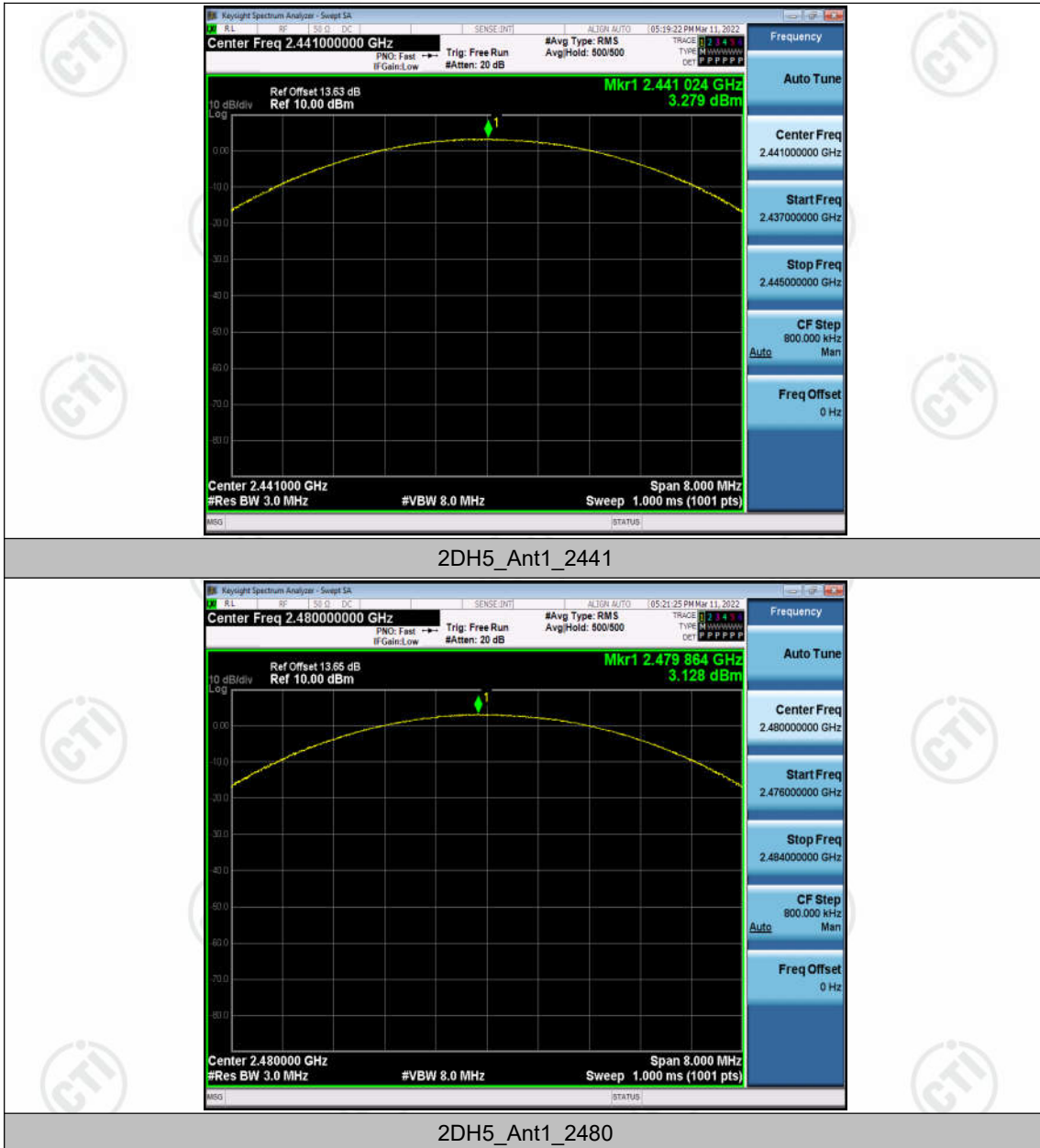


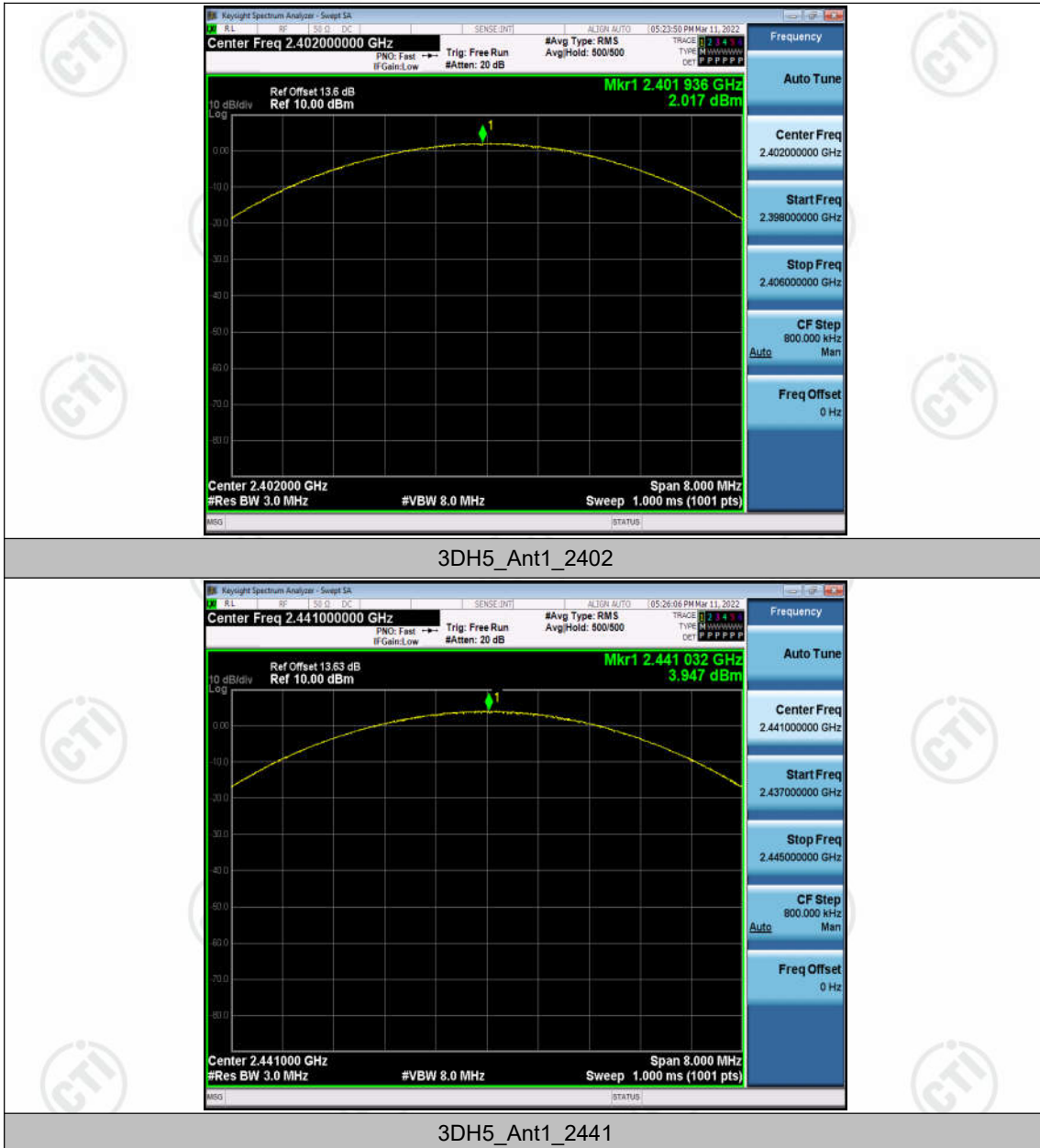
DH5_Ant1_2402

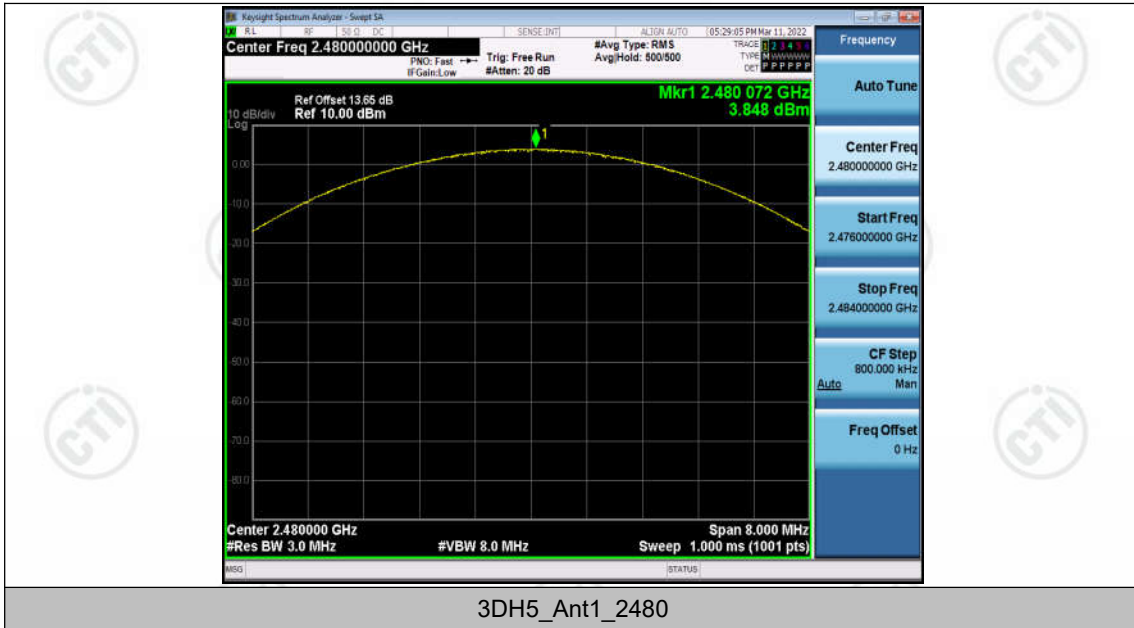


DH5_Ant1_2441





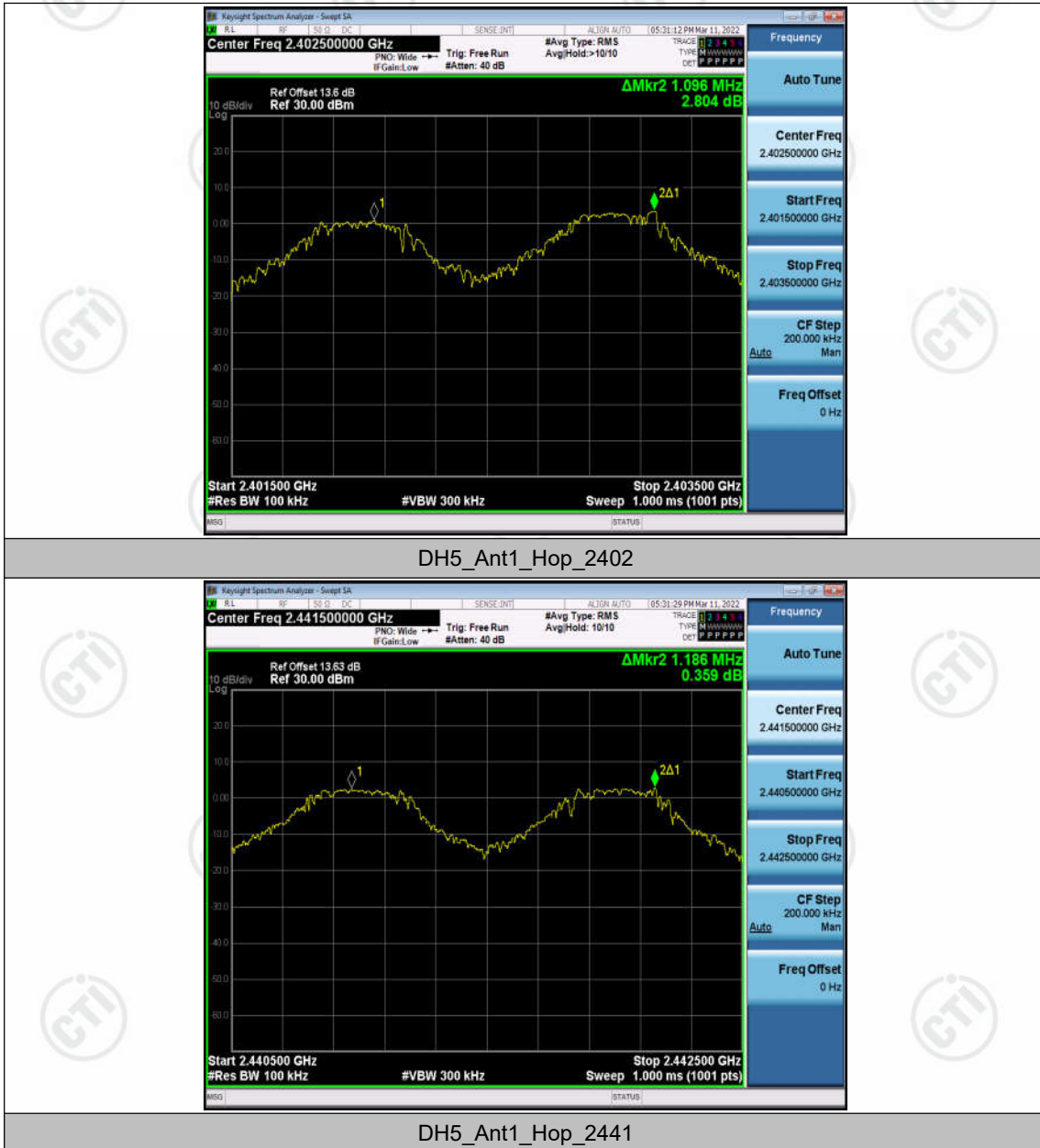


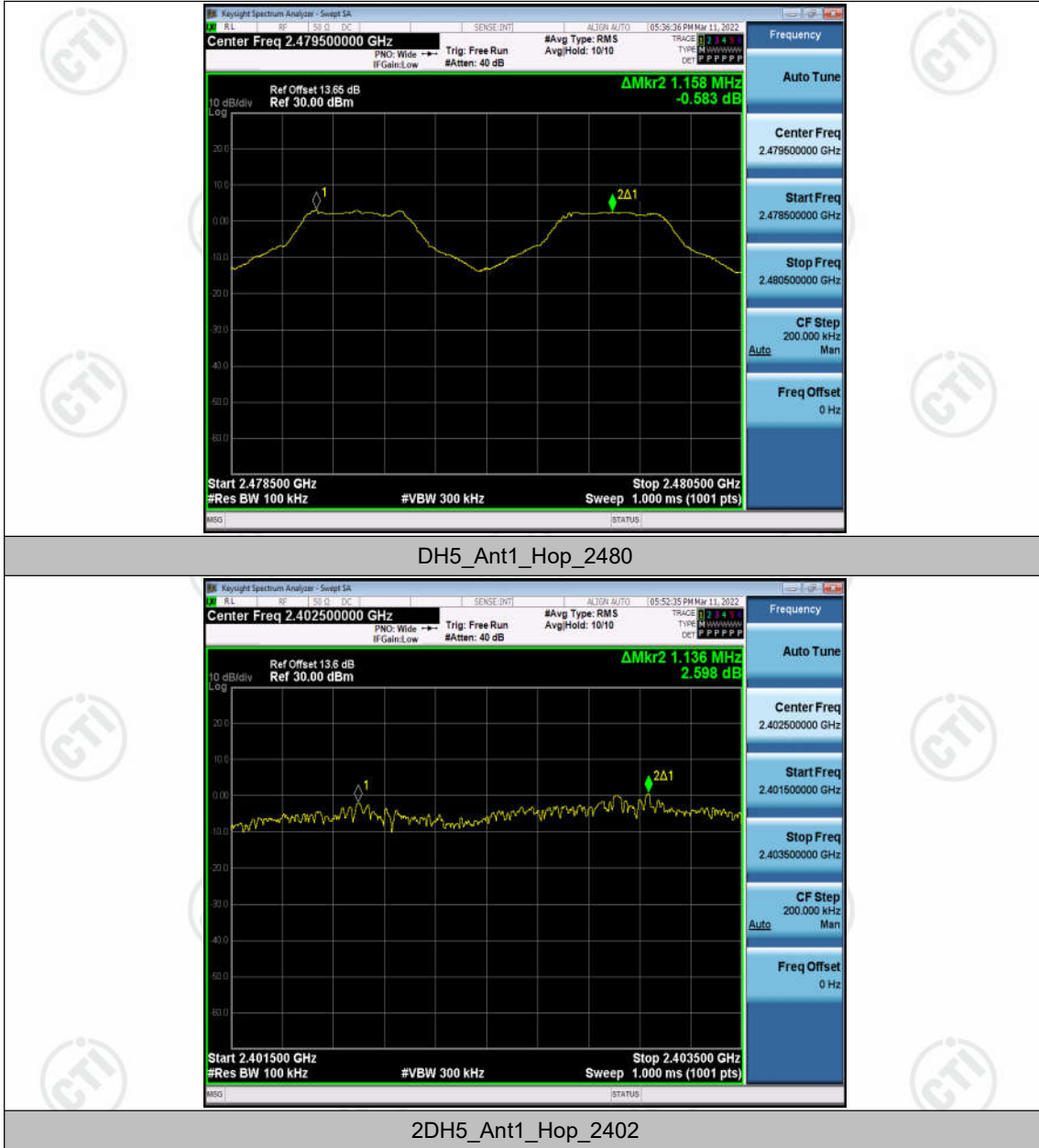


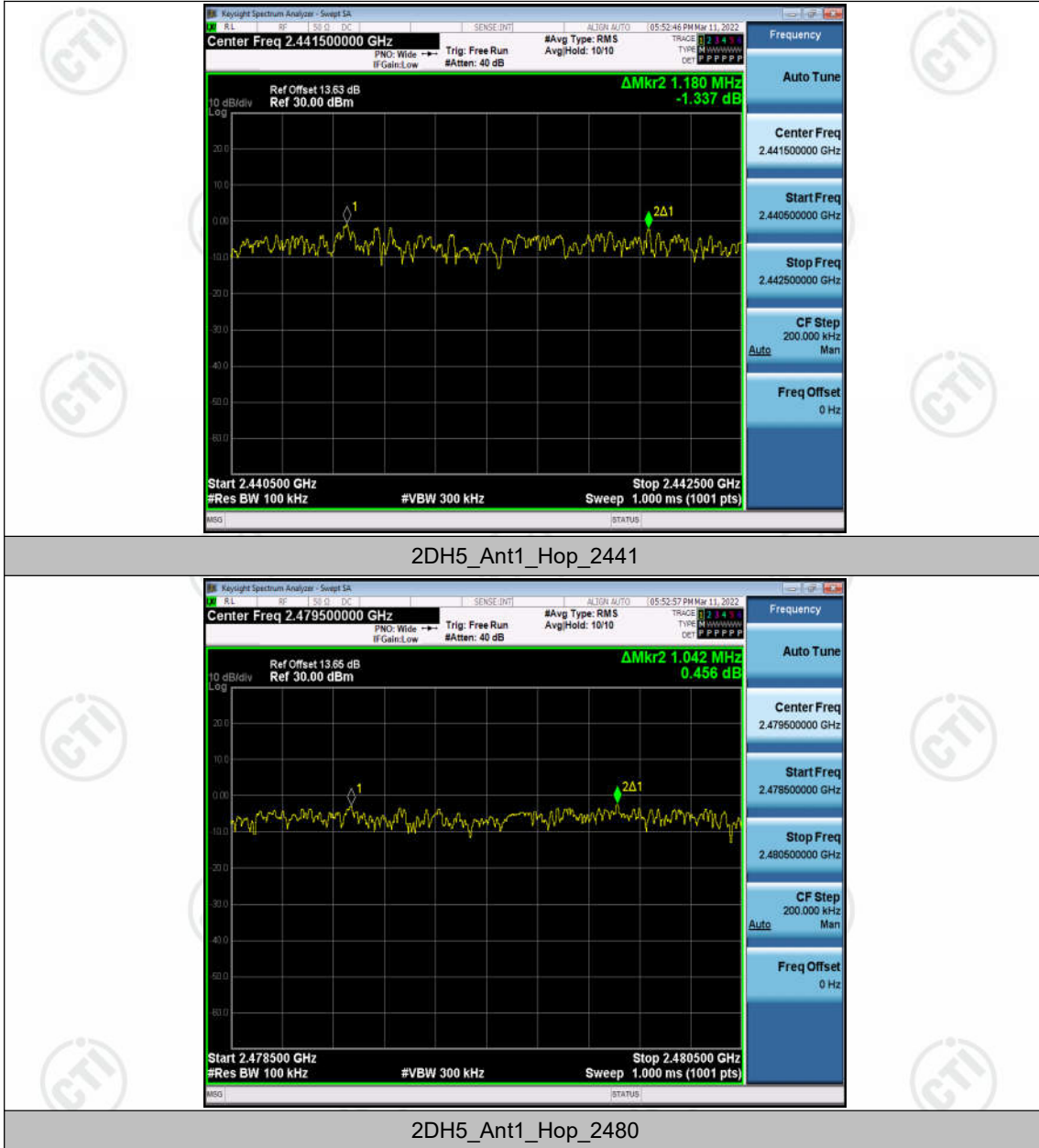
Appendix D: Carrier frequency separation**Test Result**

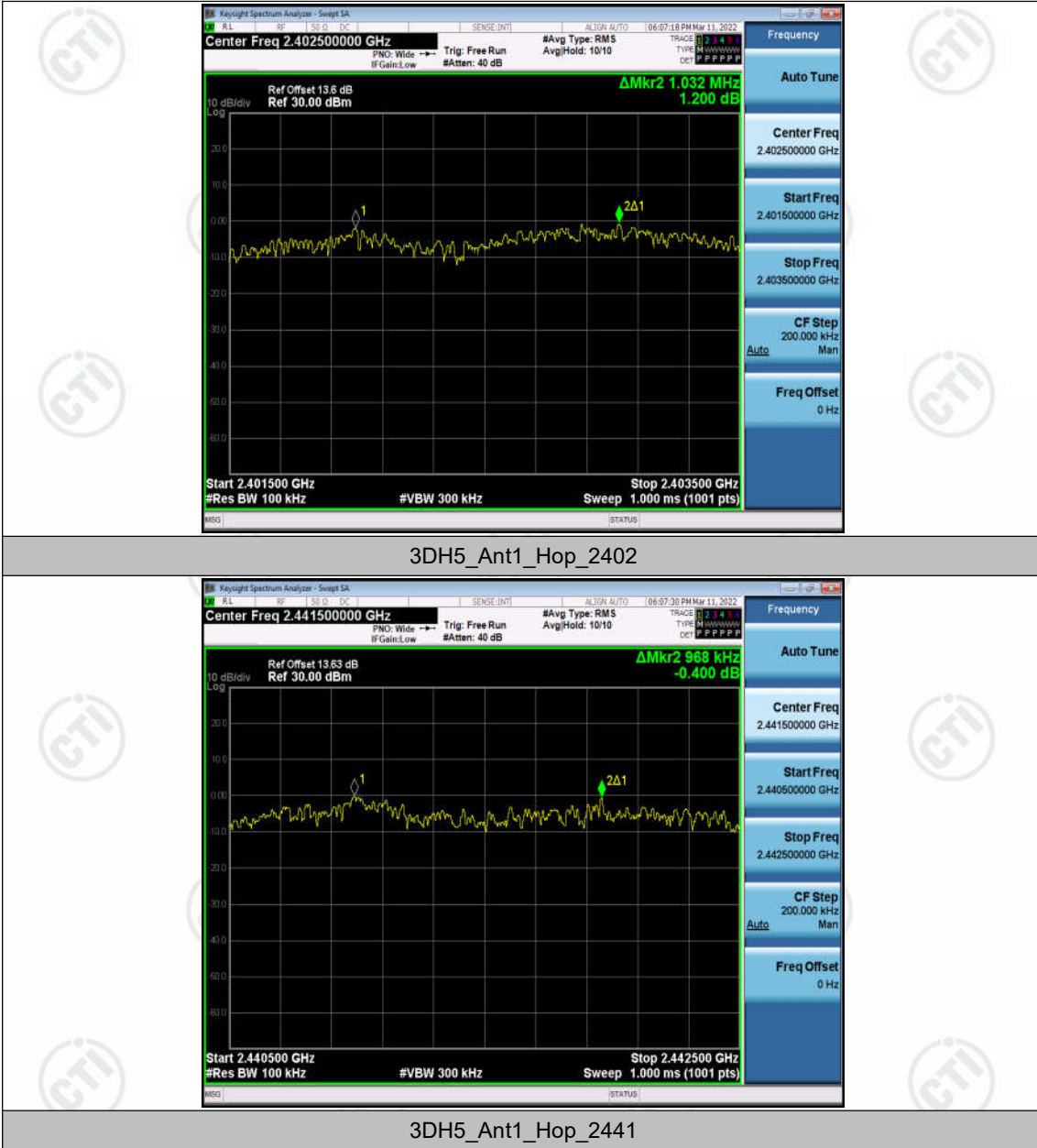
Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop_2402	1.096	≥ 0.948	PASS
		Hop_2441	1.186	≥ 0.948	PASS
		Hop_2480	1.158	≥ 0.948	PASS
2DH5	Ant1	Hop_2402	1.136	≥ 0.824	PASS
		Hop_2441	1.18	≥ 0.824	PASS
		Hop_2480	1.042	≥ 0.824	PASS
3DH5	Ant1	Hop_2402	1.032	≥ 0.836	PASS
		Hop_2441	0.968	≥ 0.836	PASS
		Hop_2480	0.988	≥ 0.836	PASS

Test Graphs





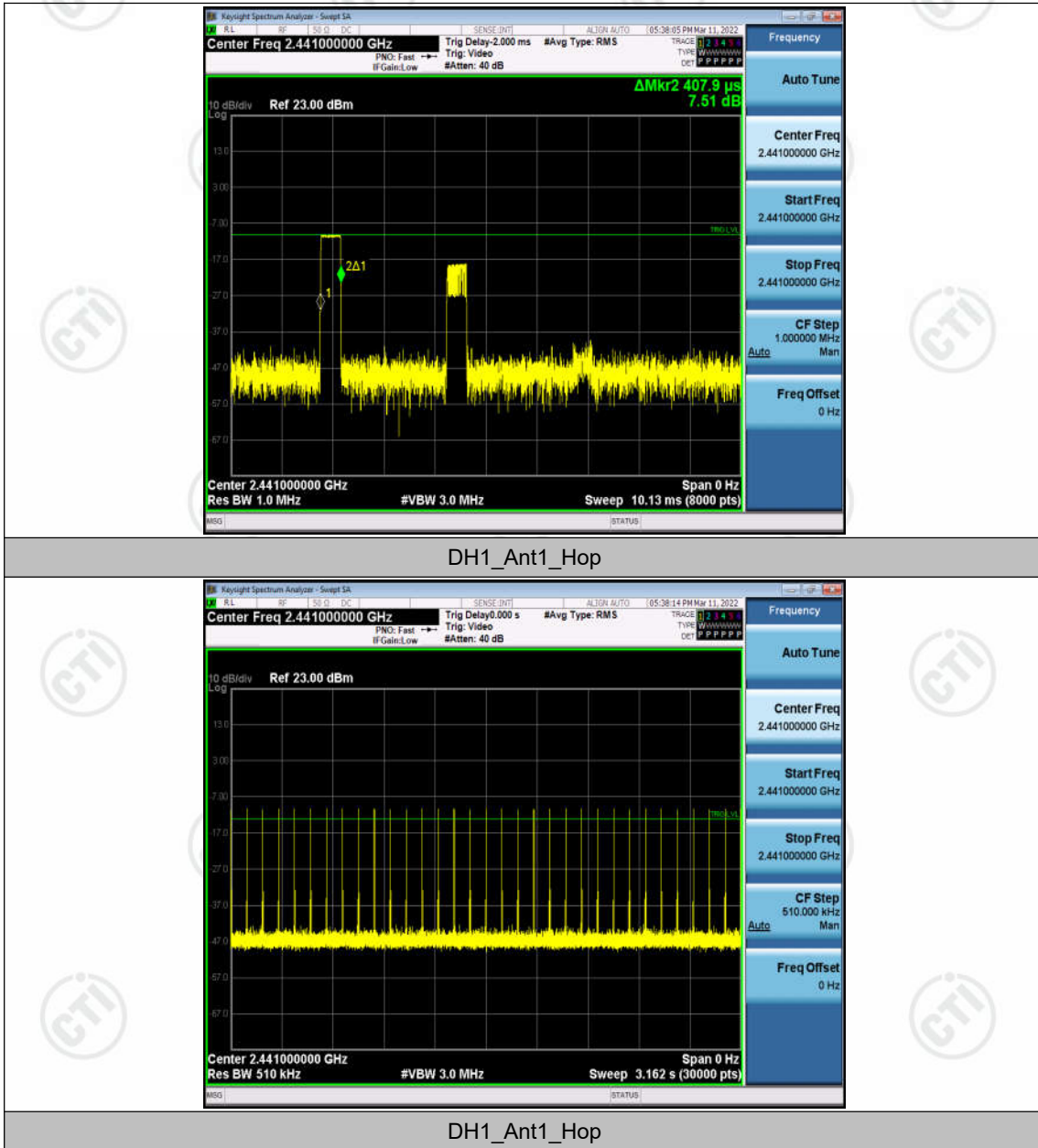


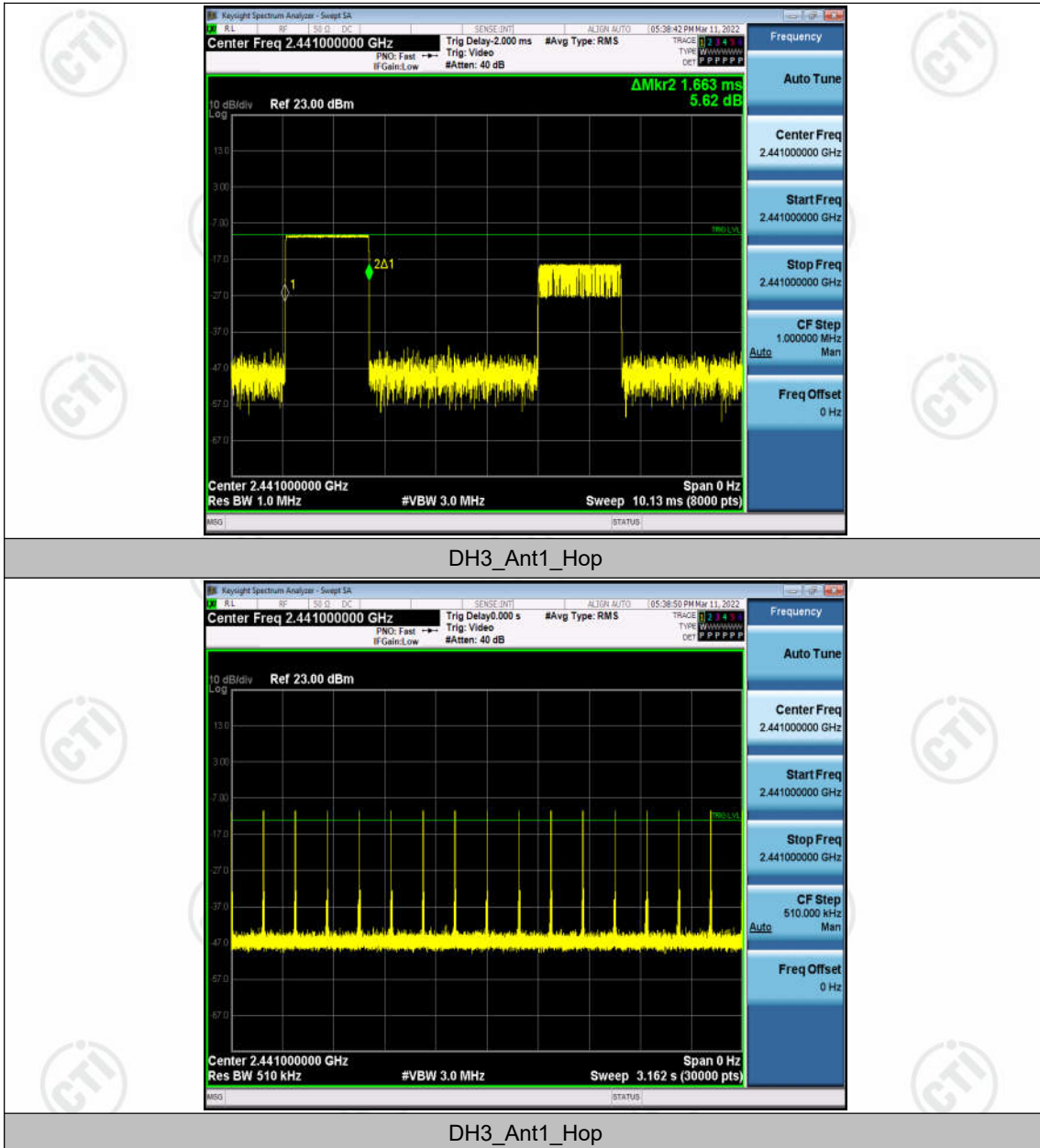


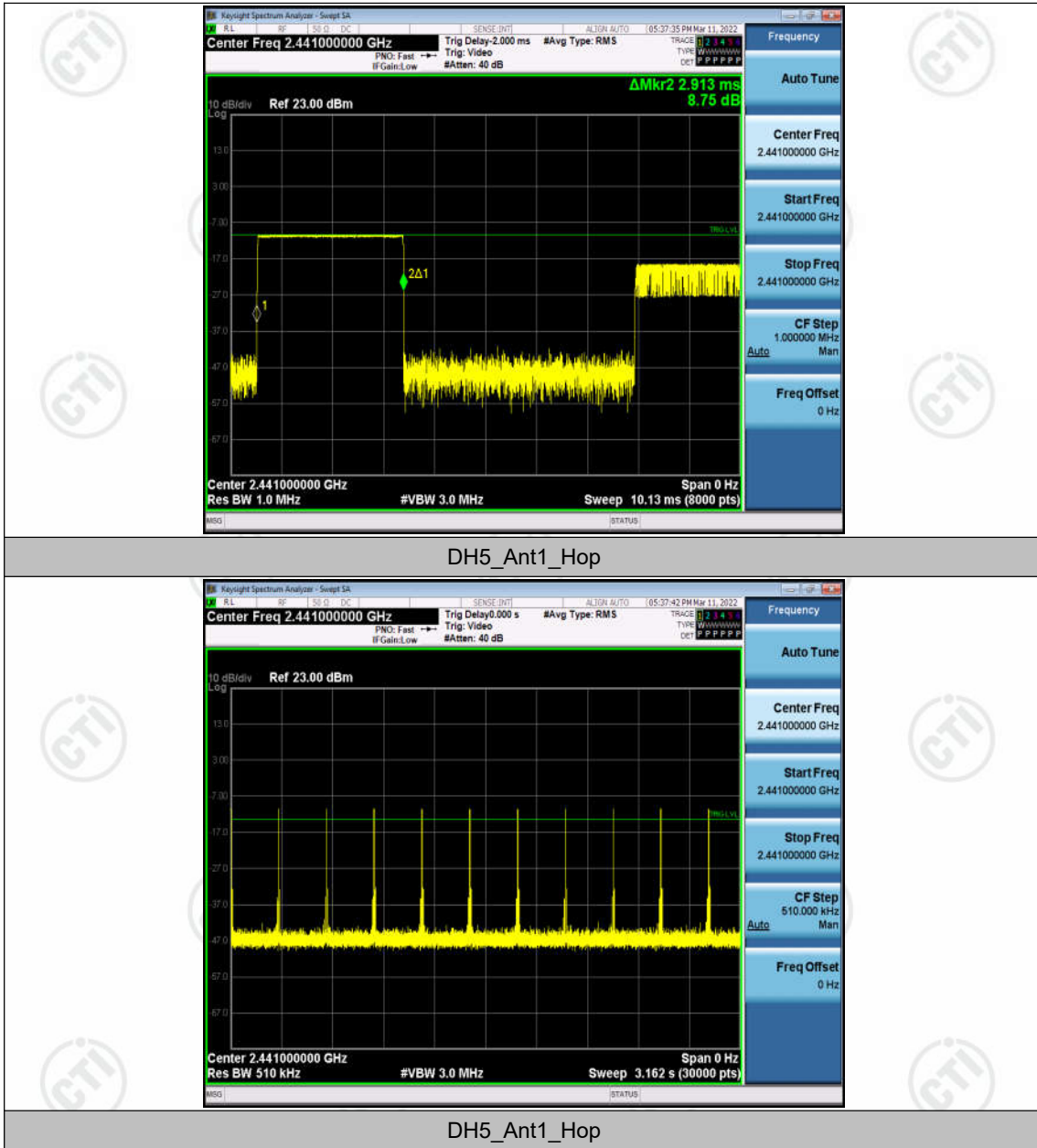
Appendix E: Time of occupancy**Test Result**

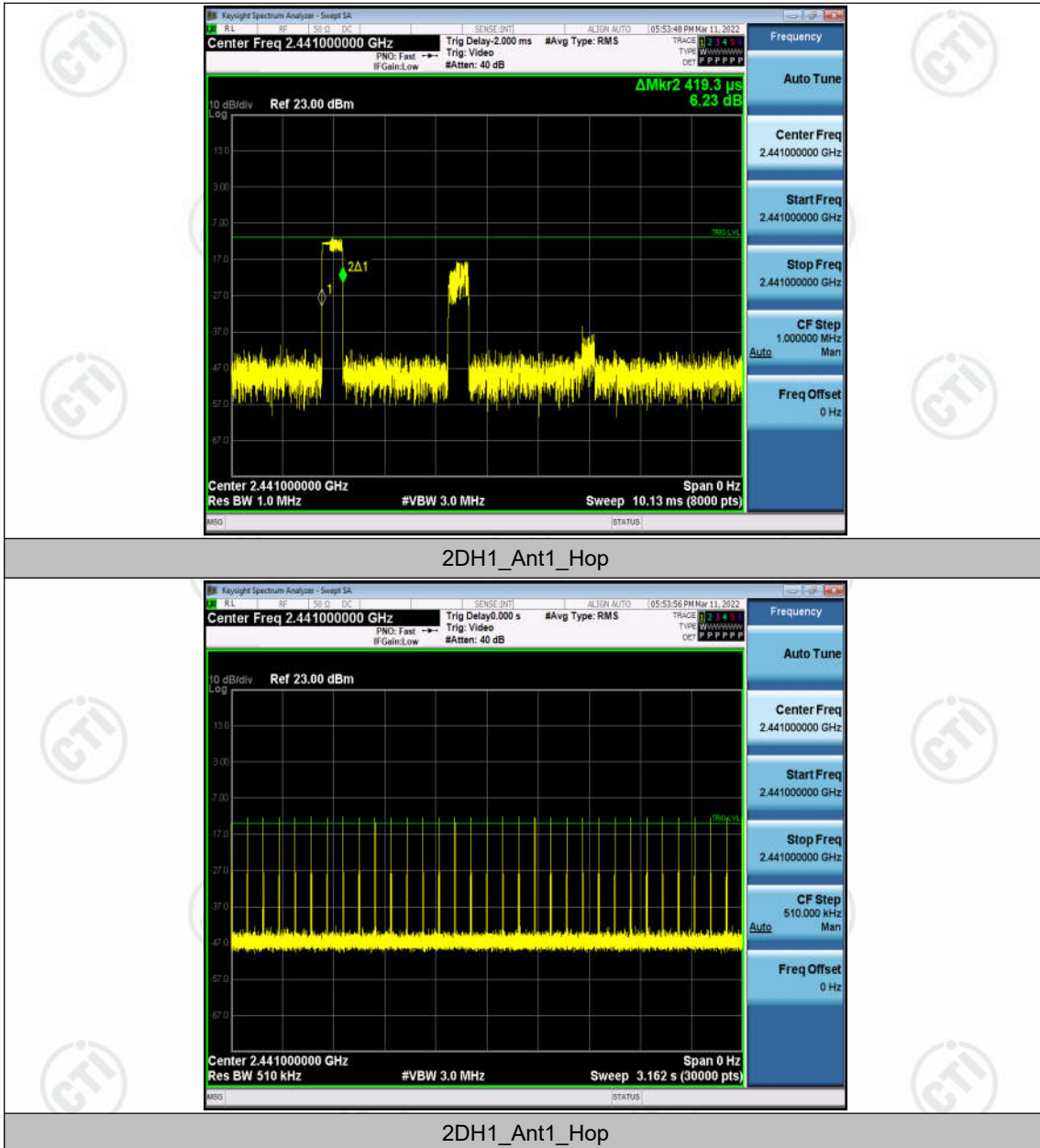
Test Mode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.41	330	0.135	<=0.4	PASS
DH3	Ant1	Hop	1.66	170	0.283	<=0.4	PASS
DH5	Ant1	Hop	2.91	110	0.32	<=0.4	PASS
2DH1	Ant1	Hop	0.42	330	0.138	<=0.4	PASS
2DH3	Ant1	Hop	1.67	170	0.284	<=0.4	PASS
2DH5	Ant1	Hop	2.92	110	0.321	<=0.4	PASS
3DH1	Ant1	Hop	0.42	330	0.138	<=0.4	PASS
3DH3	Ant1	Hop	1.67	170	0.284	<=0.4	PASS
3DH5	Ant1	Hop	2.92	110	0.321	<=0.4	PASS

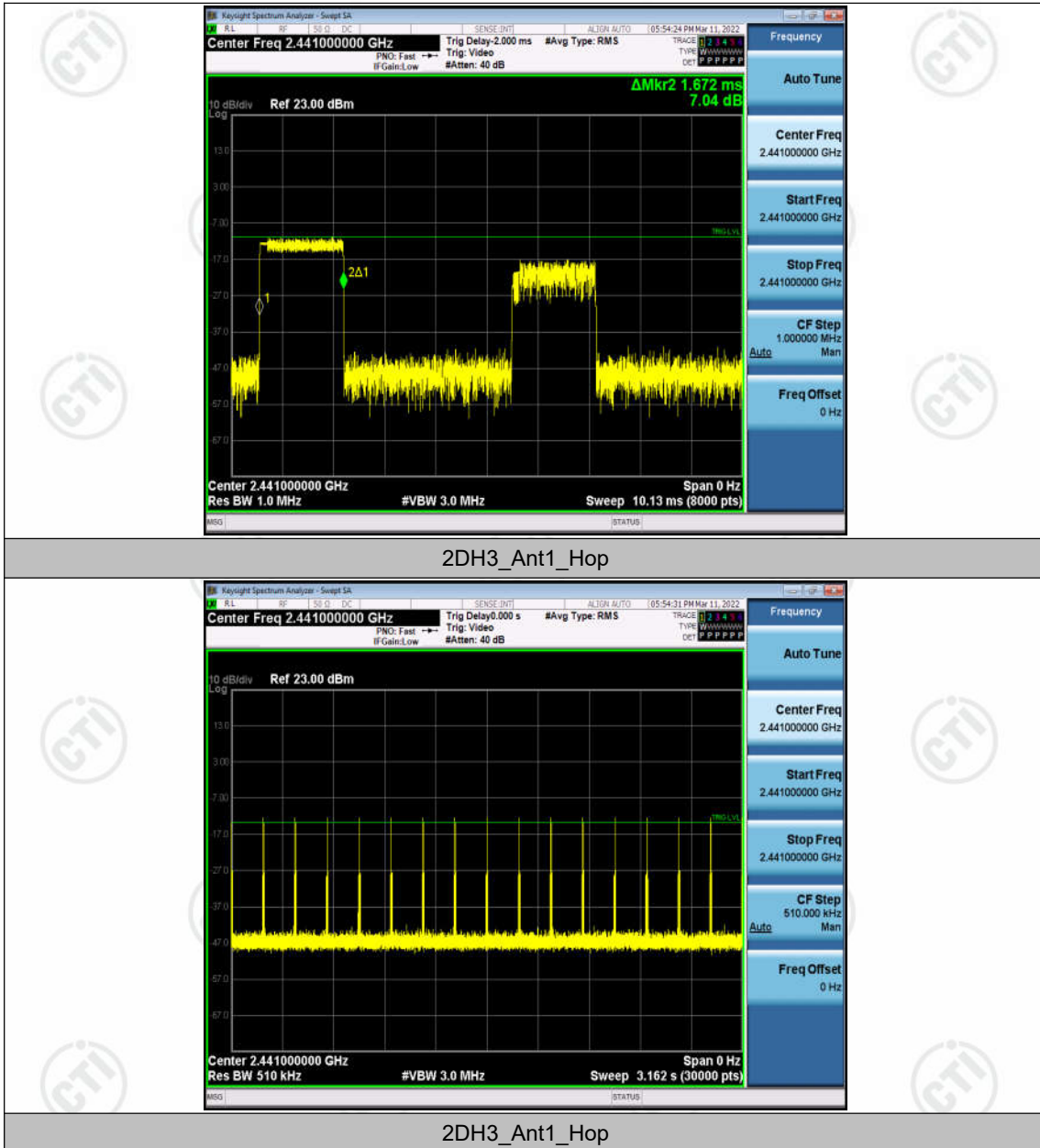
Test Graphs

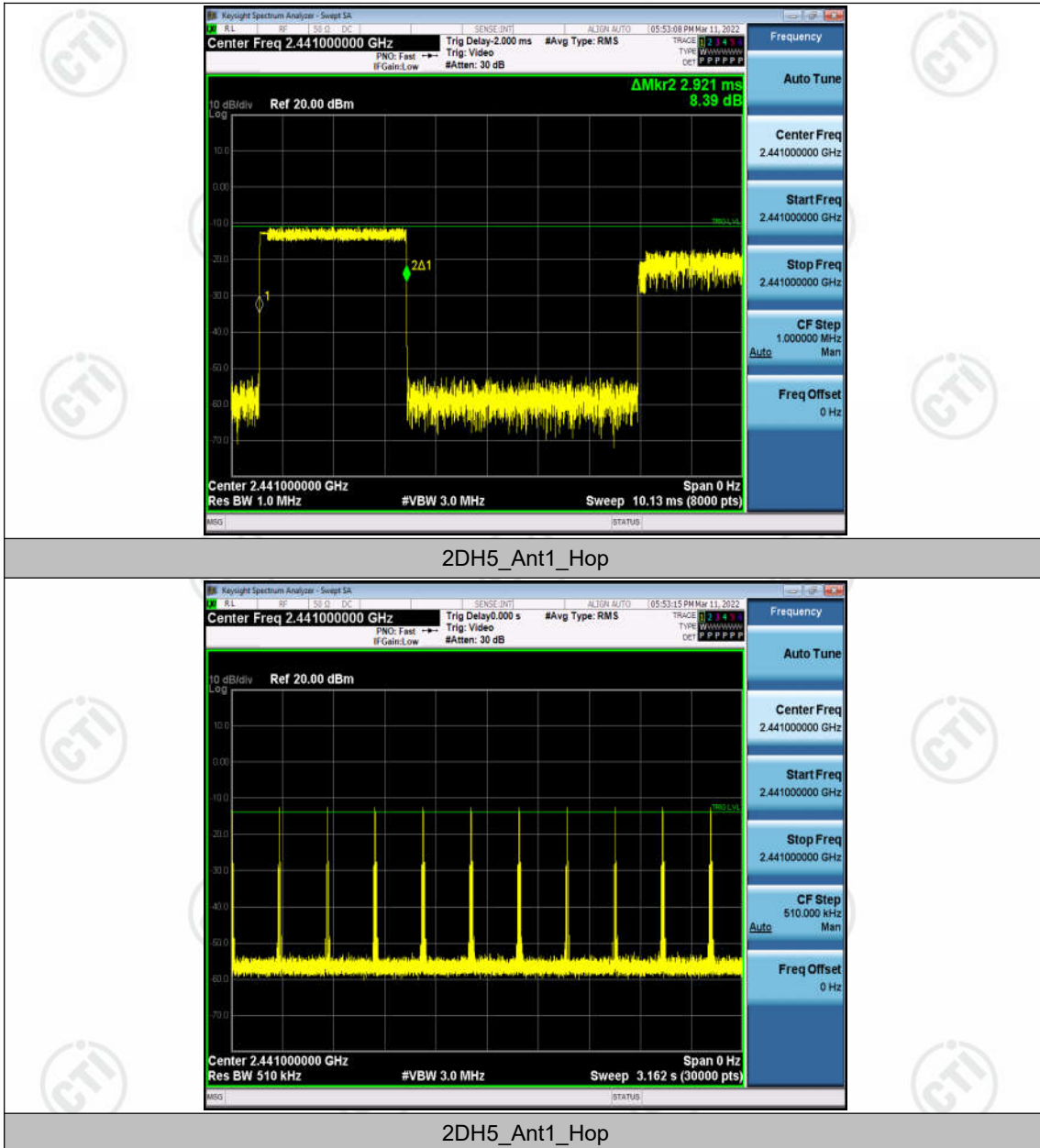


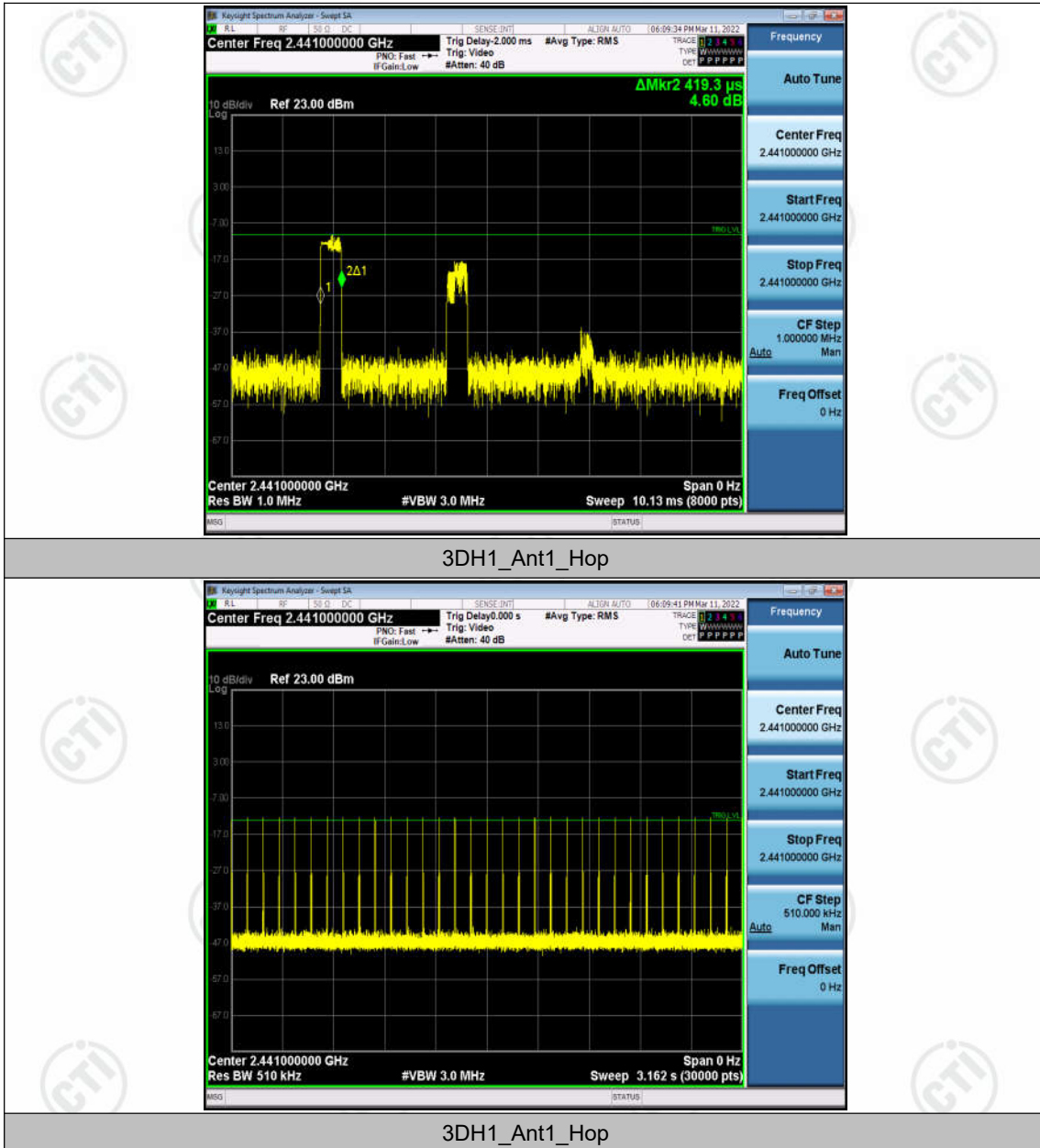


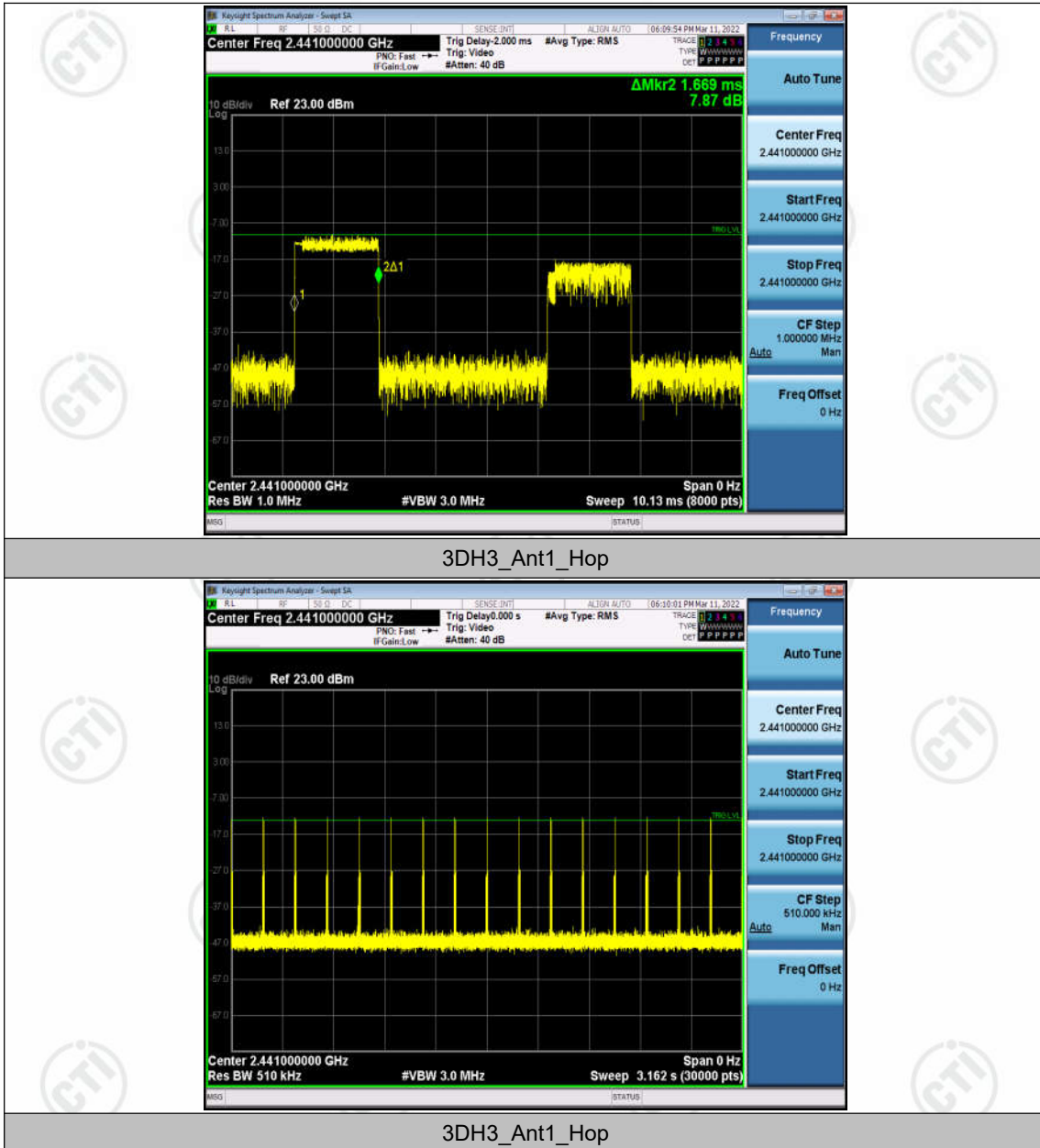


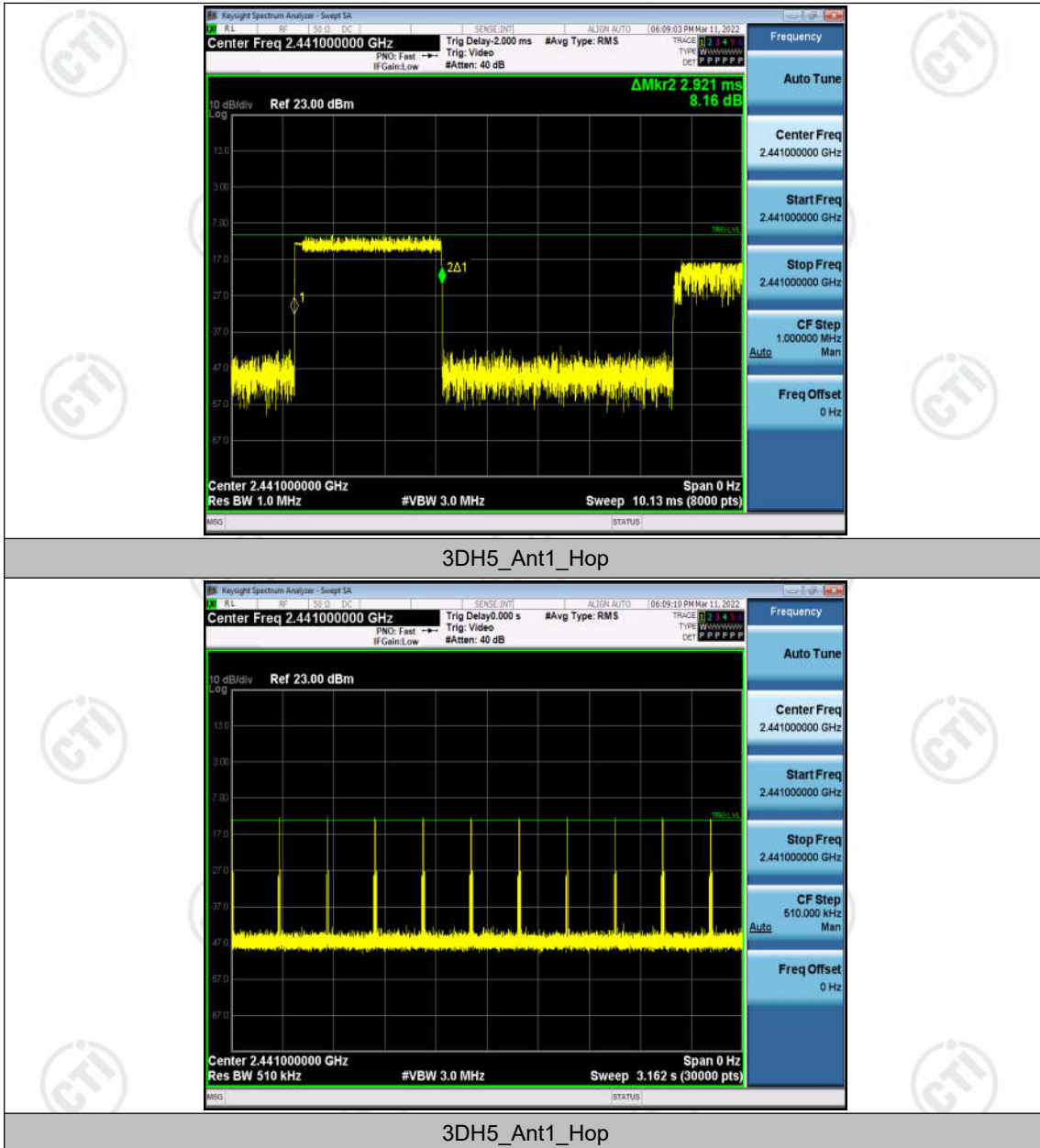








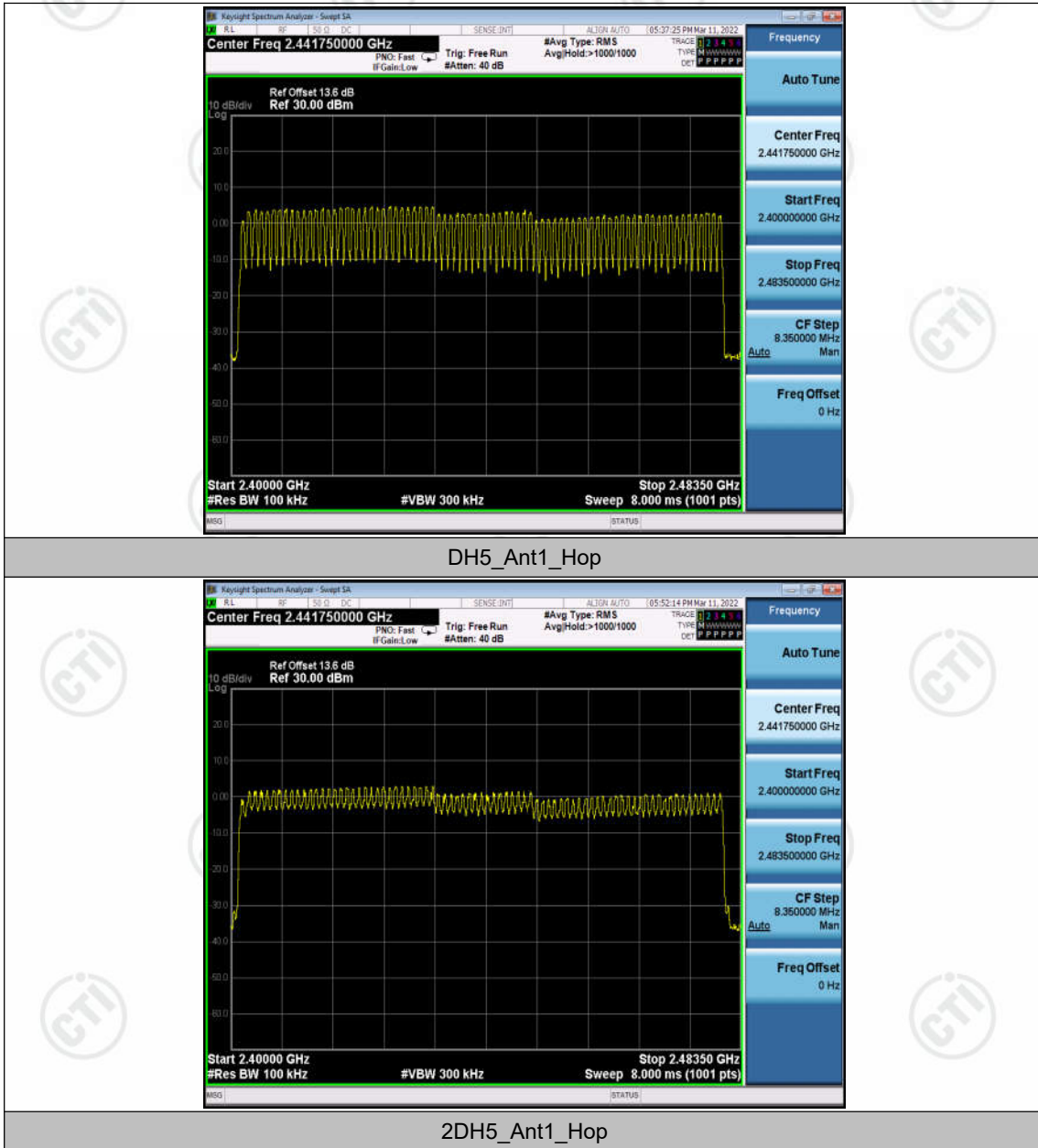


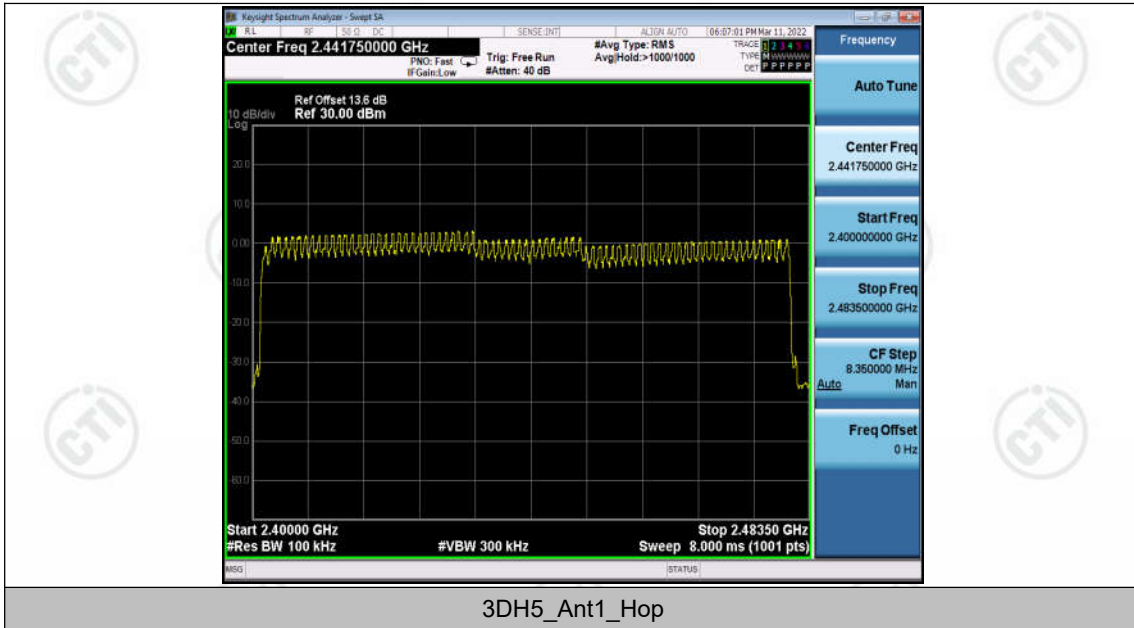


Appendix F: Number of hopping channels**Test Result**

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



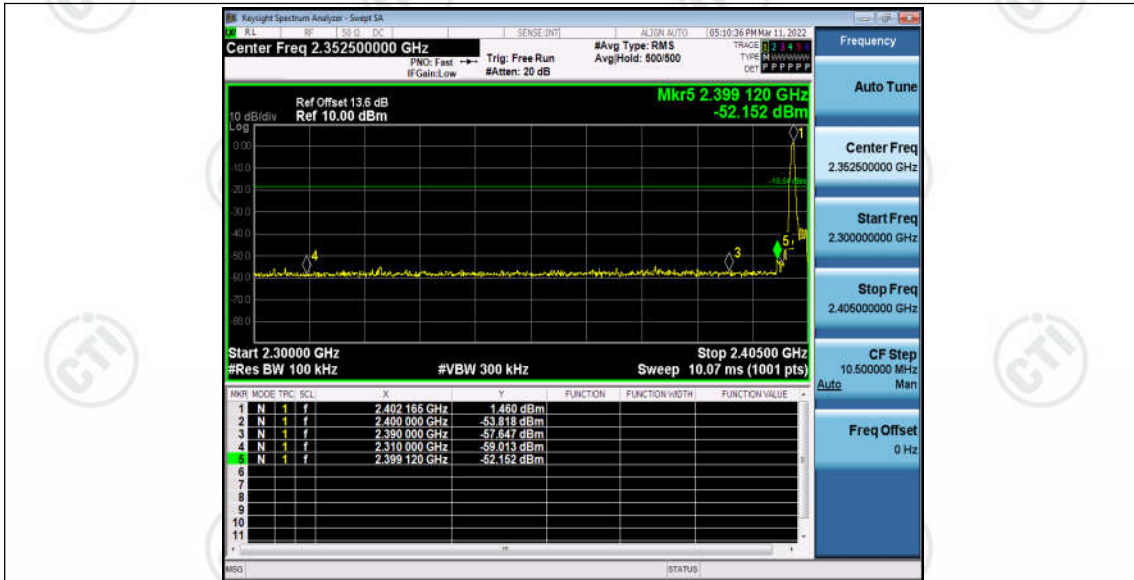


Appendix G:Band edge measurements

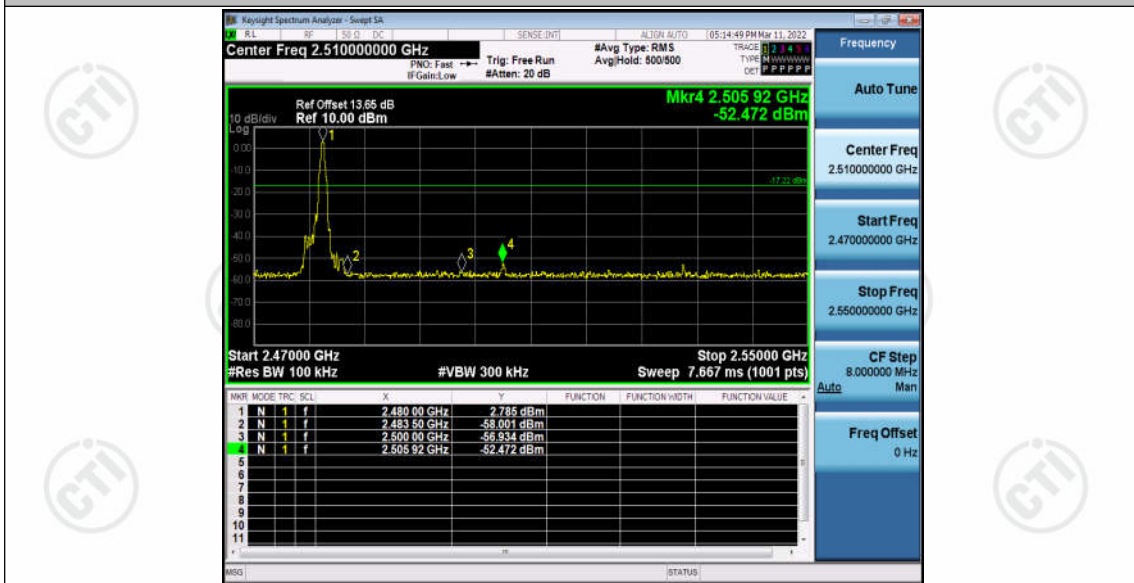
Test Result

Test Mode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.46	-52.15	<=-18.54	PASS
		High	2480	2.79	-52.47	<=-17.22	PASS
		Low	Hop_2402	2.77	-43.66	<=-17.23	PASS
		High	Hop_2480	2.82	-39.37	<=-17.18	PASS
2DH5	Ant1	Low	2402	-0.77	-49.52	<=-20.77	PASS
		High	2480	0.77	-54.33	<=-19.23	PASS
		Low	Hop_2402	1.50	-44.43	<=-18.51	PASS
		High	Hop_2480	0.87	-39.99	<=-19.13	PASS
3DH5	Ant1	Low	2402	-0.83	-47.76	<=-20.83	PASS
		High	2480	1.01	-54.39	<=-18.99	PASS
		Low	Hop_2402	1.57	-43.92	<=-18.43	PASS
		High	Hop_2480	0.92	-39.76	<=-19.08	PASS

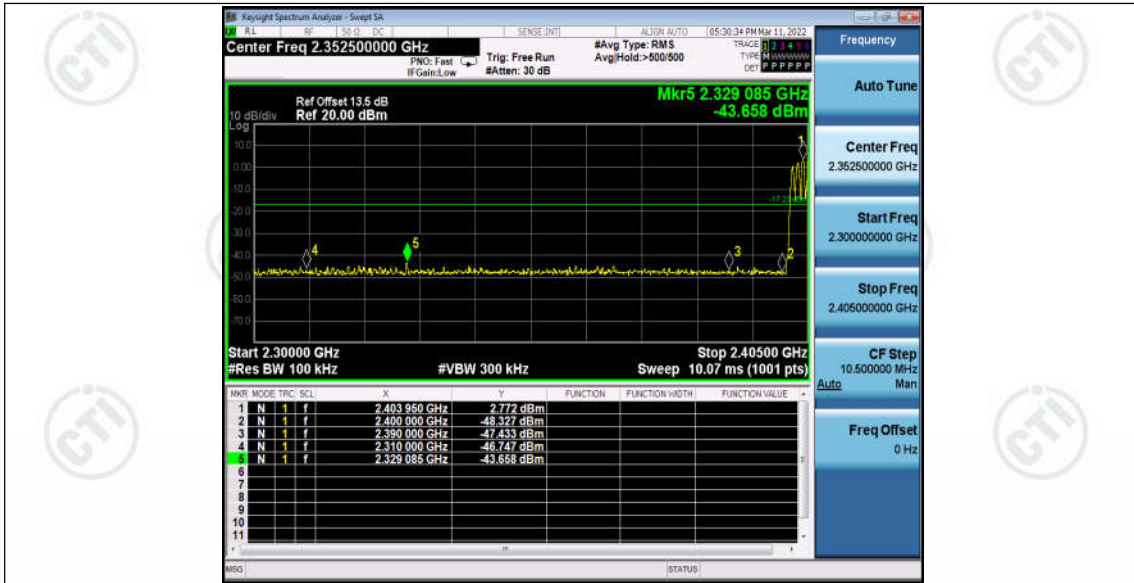
Test Graphs



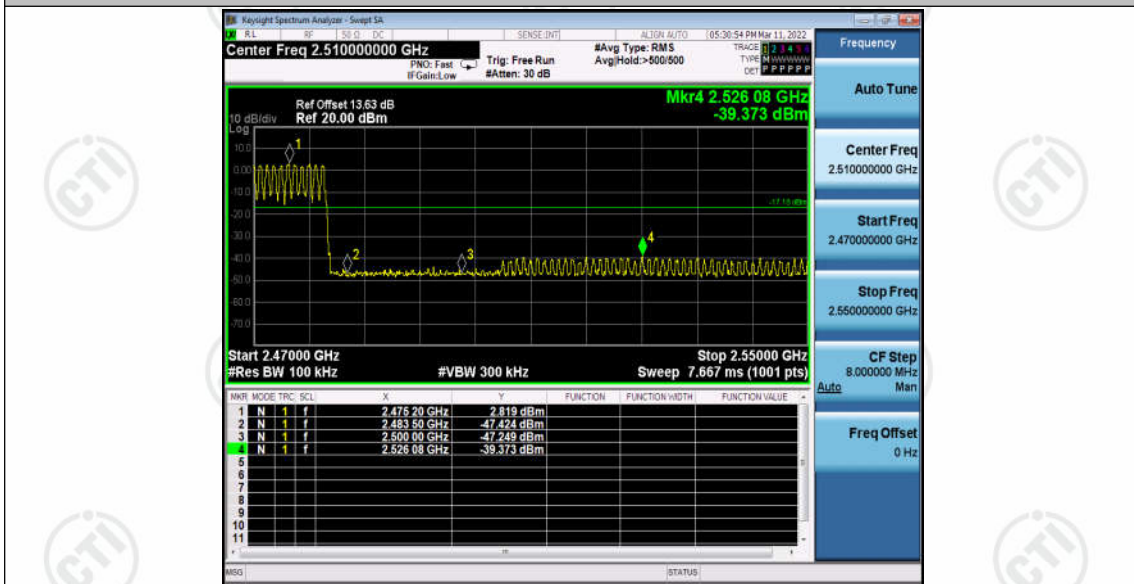
DH5_Ant1_Low_2402



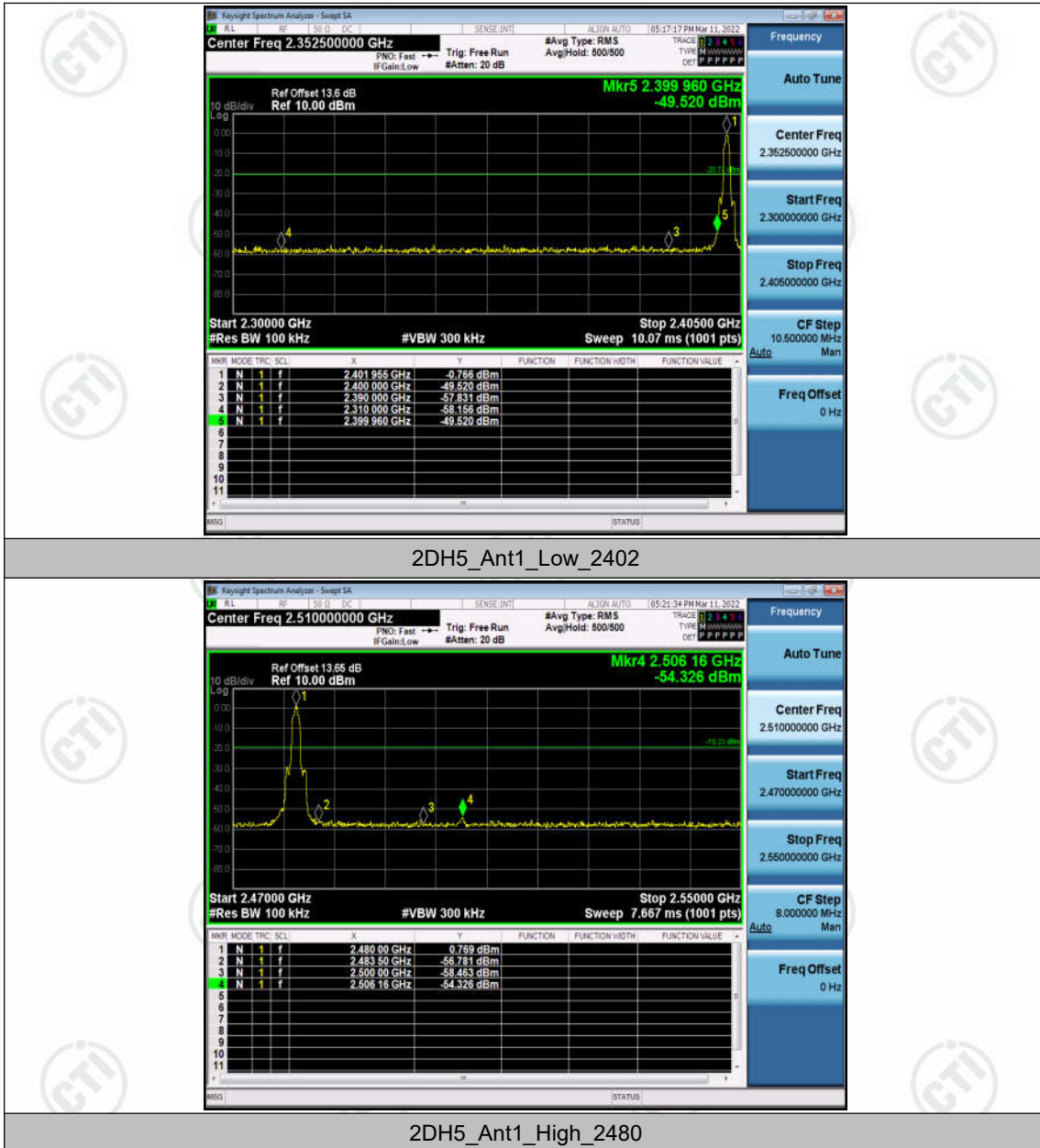
DH5_Ant1_High_2480

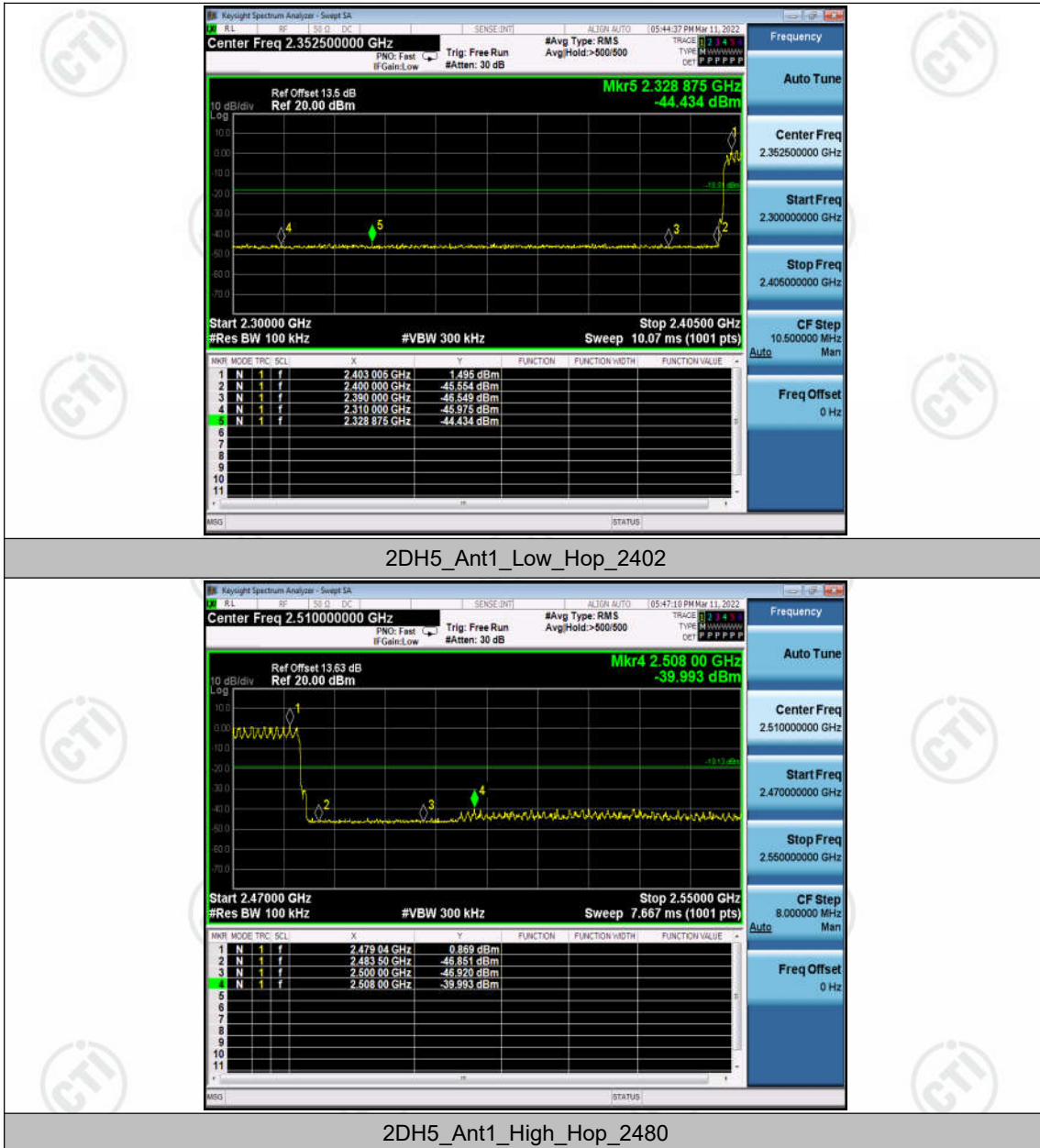


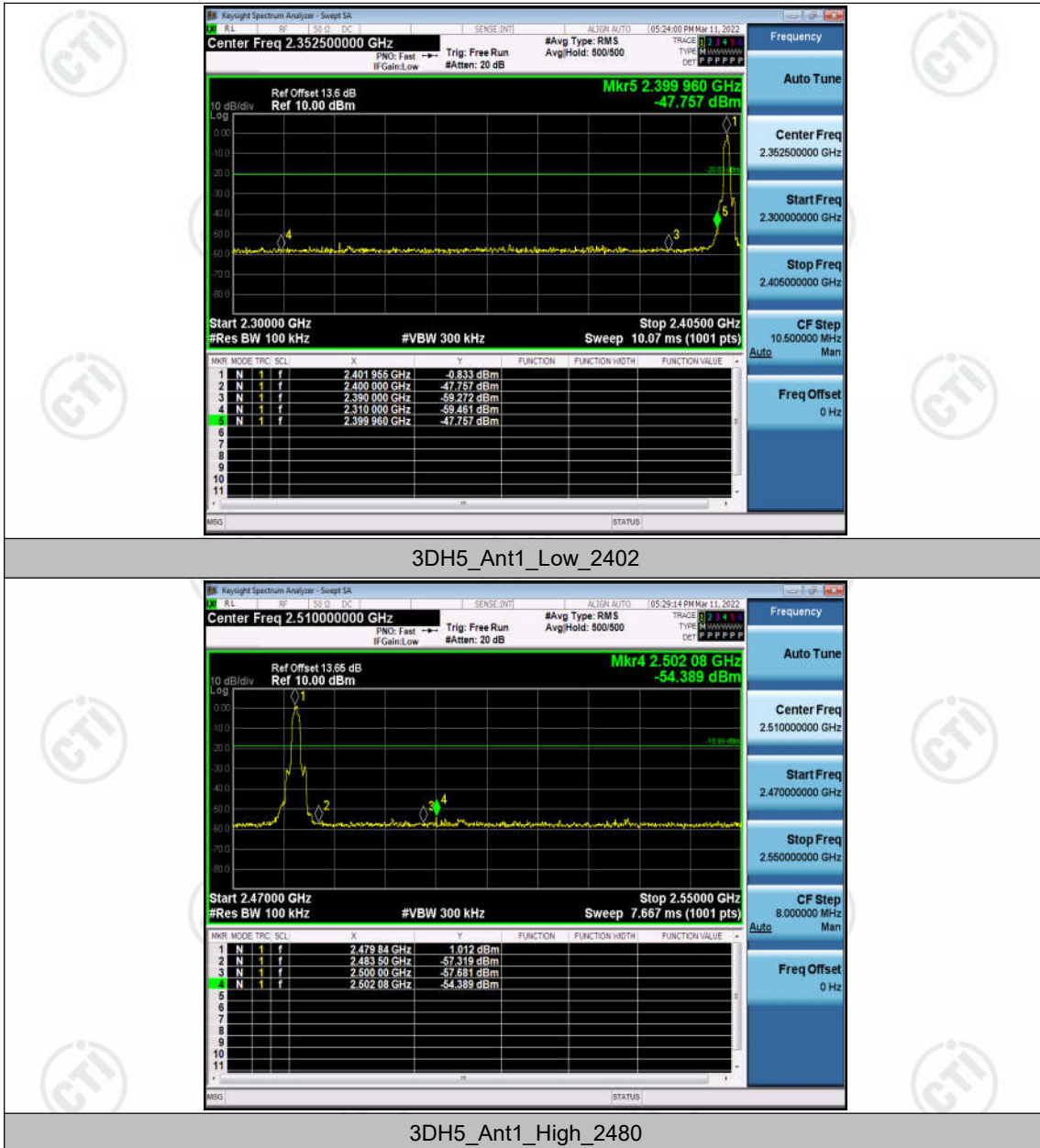
DH5_Ant1_Low_Hop_2402

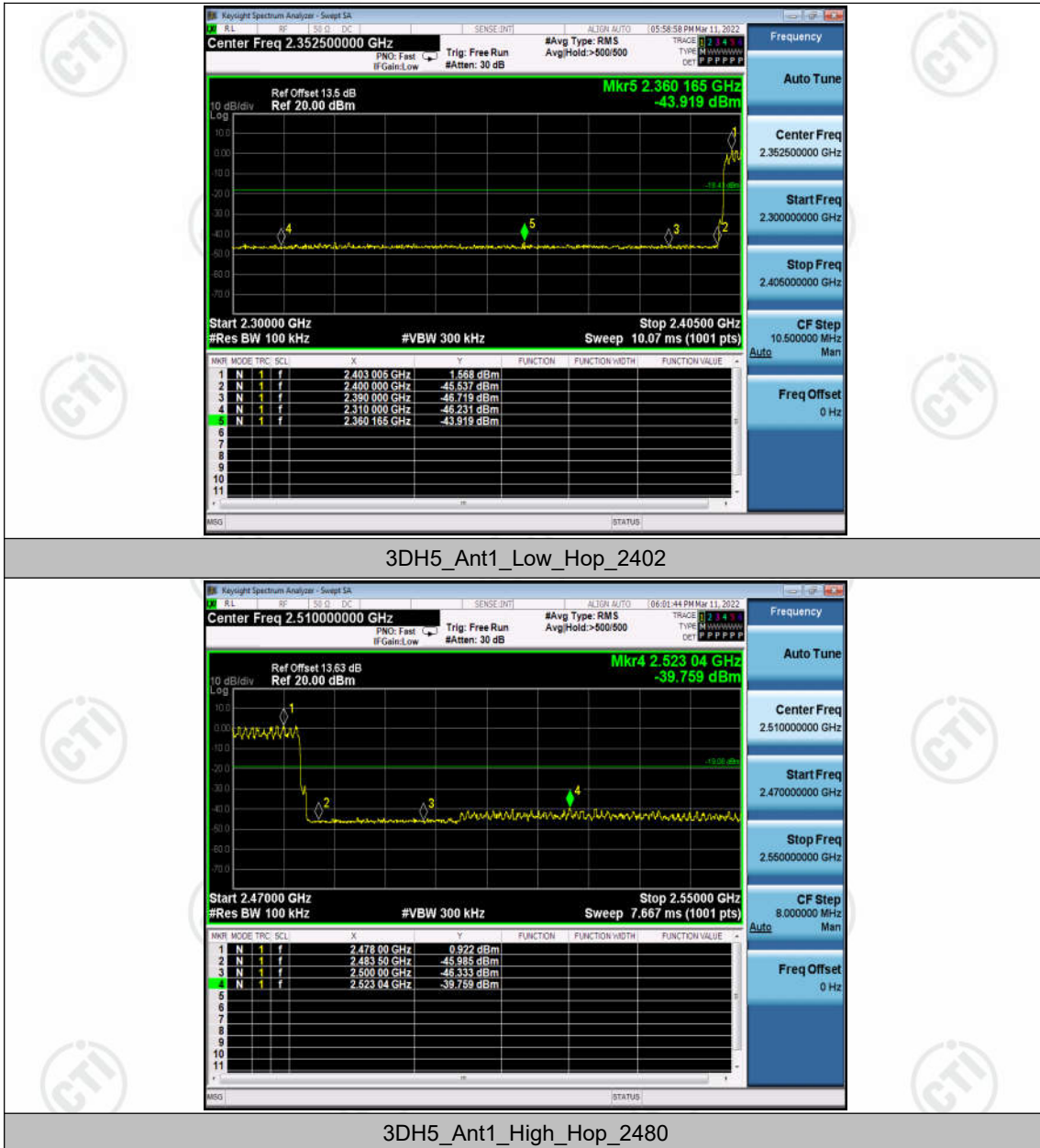


DH5_Ant1_High_Hop_2480







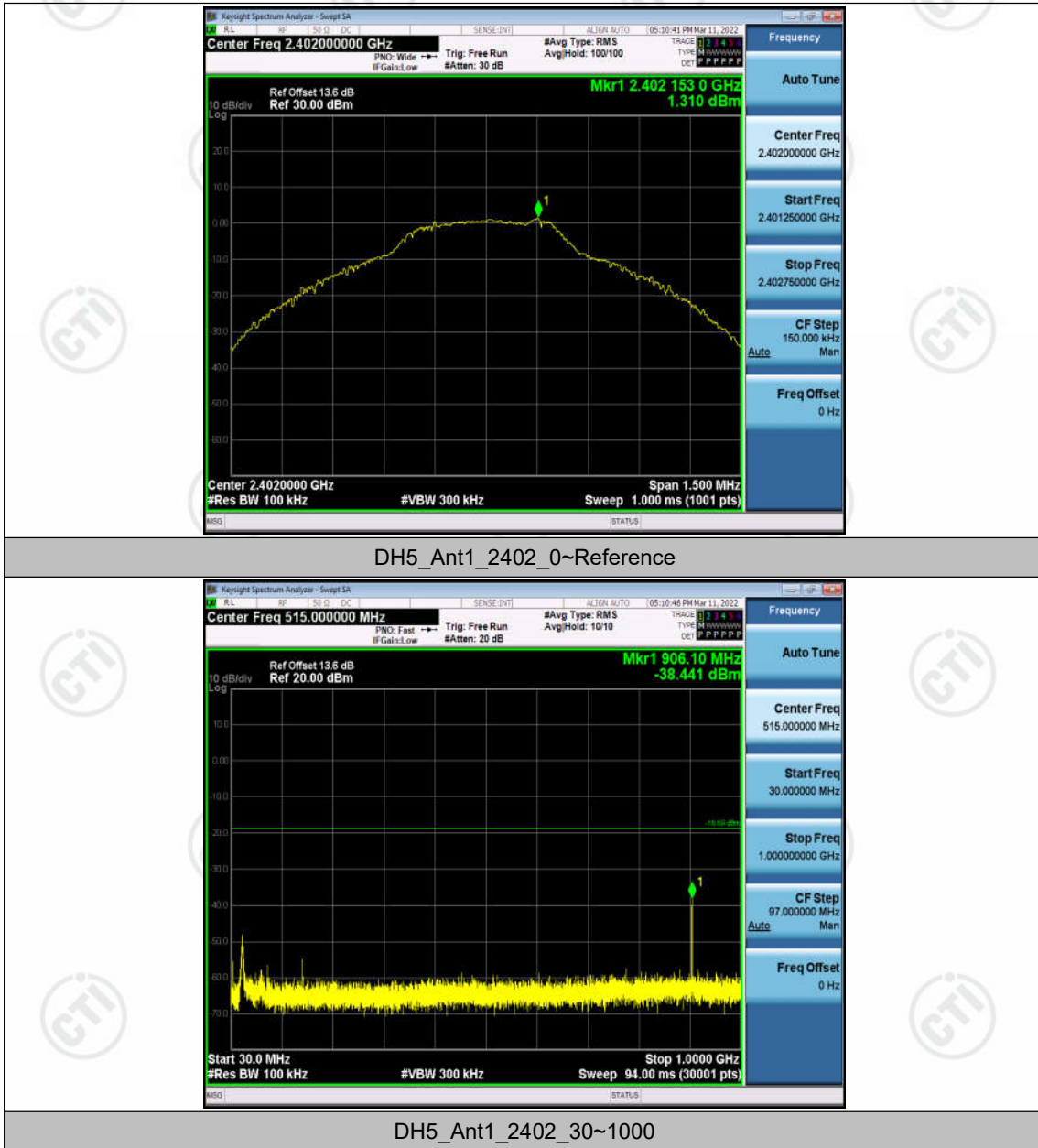


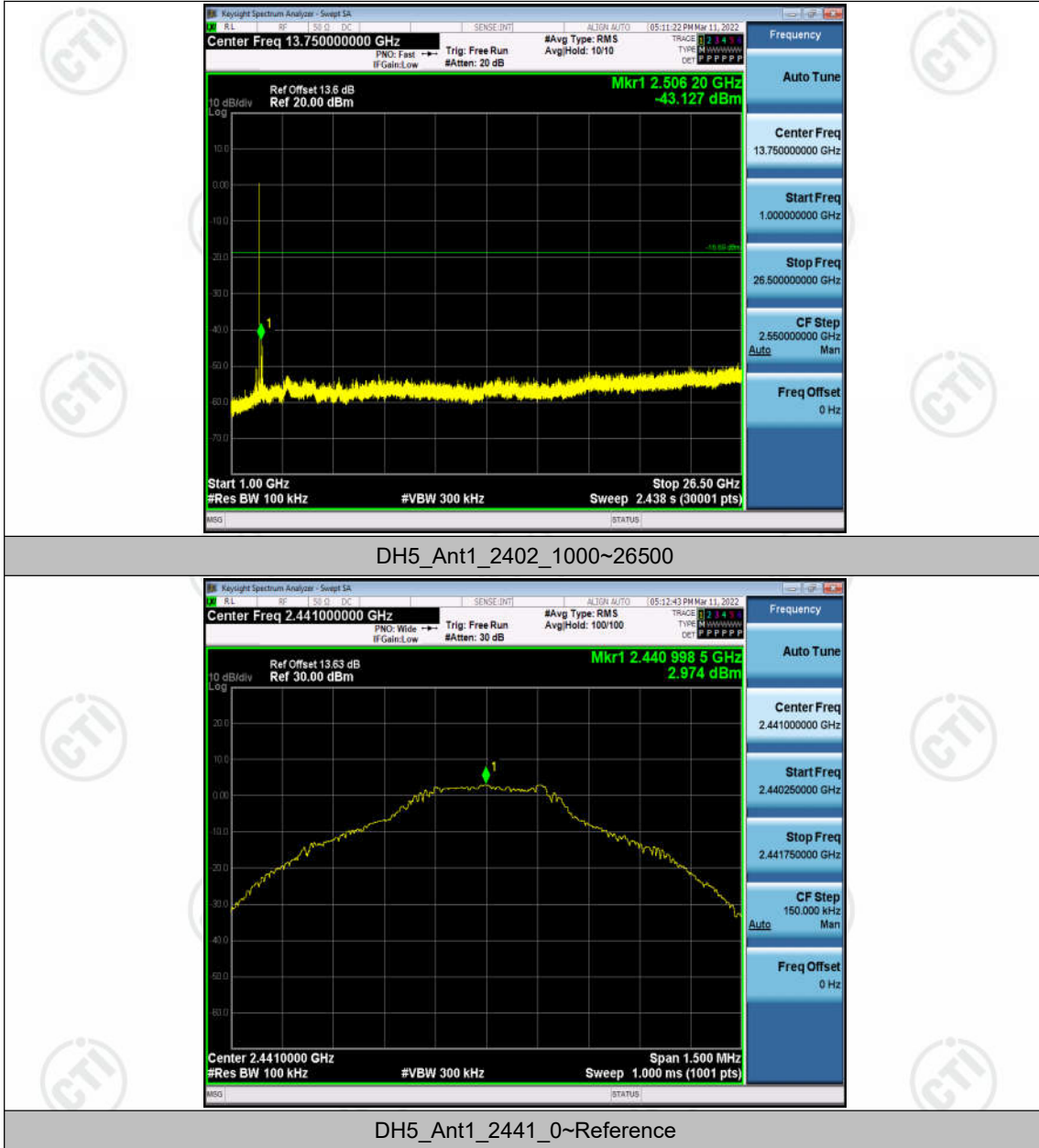
Appendix H:Conducted Spurious Emission

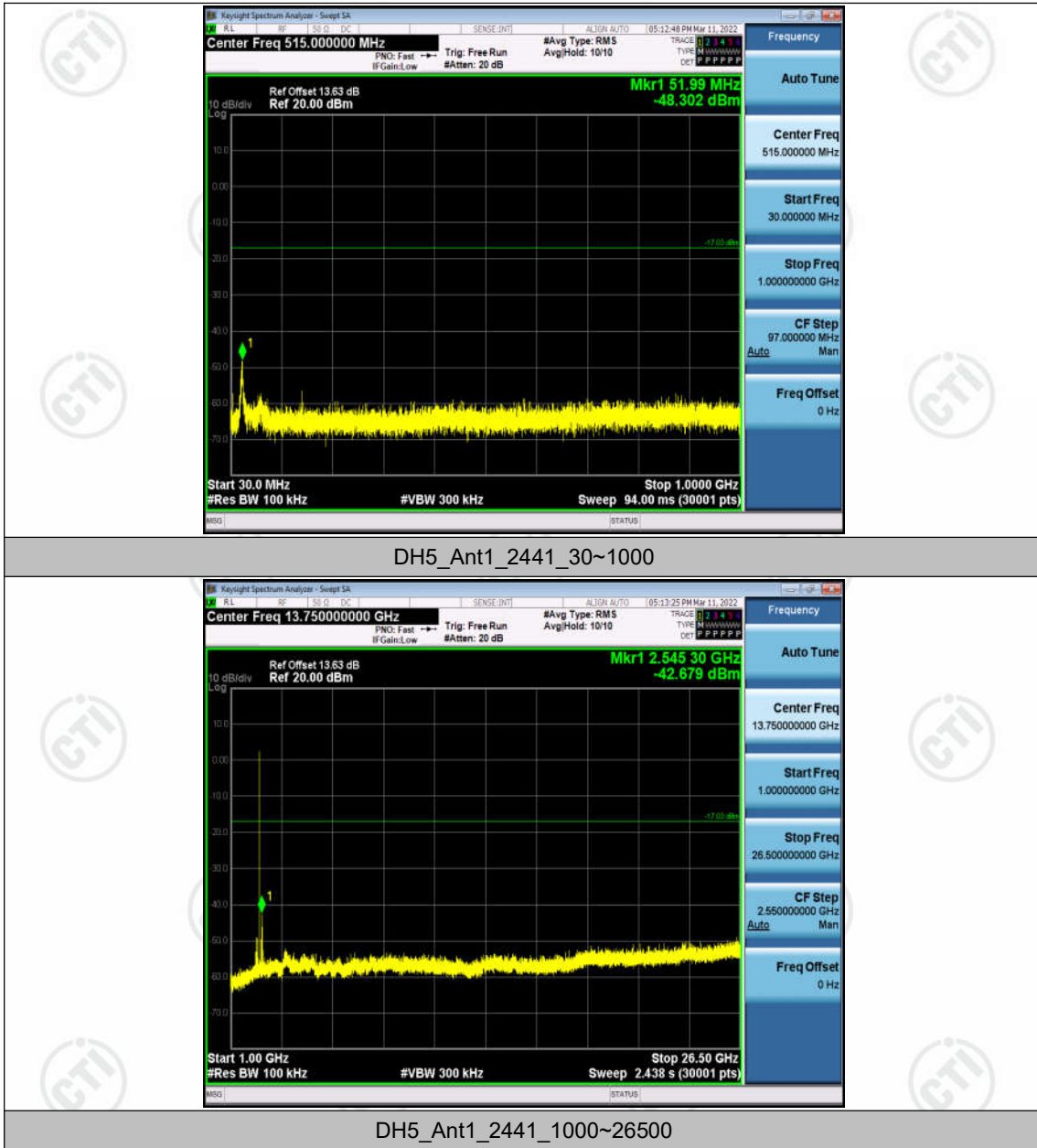
Test Result

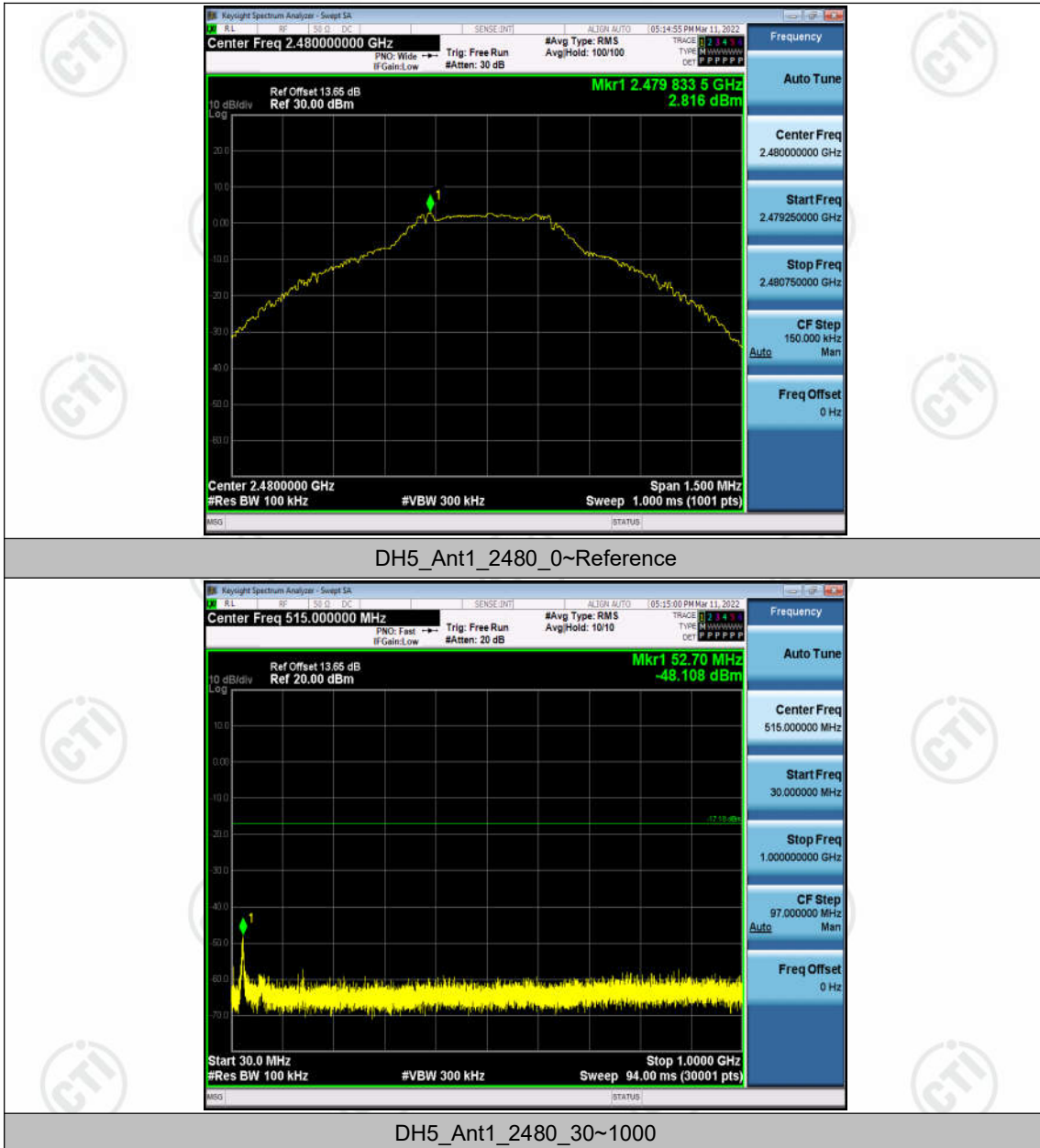
Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.31	1.31	---	PASS
			30~1000	30~1000	-38.441	<=-18.69	PASS
			1000~26500	1000~26500	-43.127	<=-18.69	PASS
		2441	Reference	2.97	2.97	---	PASS
			30~1000	30~1000	-48.302	<=-17.026	PASS
			1000~26500	1000~26500	-42.679	<=-17.026	PASS
		2480	Reference	2.82	2.82	---	PASS
			30~1000	30~1000	-48.108	<=-17.184	PASS
			1000~26500	1000~26500	-43.726	<=-17.184	PASS
2DH5	Ant1	2402	Reference	-0.78	-0.78	---	PASS
			30~1000	30~1000	-47.242	<=-20.782	PASS
			1000~26500	1000~26500	-48.288	<=-20.782	PASS
		2441	Reference	0.95	0.95	---	PASS
			30~1000	30~1000	-48.175	<=-19.051	PASS
			1000~26500	1000~26500	-44.73	<=-19.051	PASS
		2480	Reference	0.82	0.82	---	PASS
			30~1000	30~1000	-46.983	<=-19.182	PASS
			1000~26500	1000~26500	-48.76	<=-19.182	PASS
3DH5	Ant1	2402	Reference	-1.22	-1.22	---	PASS
			30~1000	30~1000	-48.748	<=-21.221	PASS
			1000~26500	1000~26500	-47.486	<=-21.221	PASS
		2441	Reference	0.86	0.86	---	PASS
			30~1000	30~1000	-47.168	<=-19.145	PASS
			1000~26500	1000~26500	-44.93	<=-19.145	PASS
		2480	Reference	0.56	0.56	---	PASS
			30~1000	30~1000	-42.346	<=-19.444	PASS
			1000~26500	1000~26500	-39.808	<=-19.444	PASS

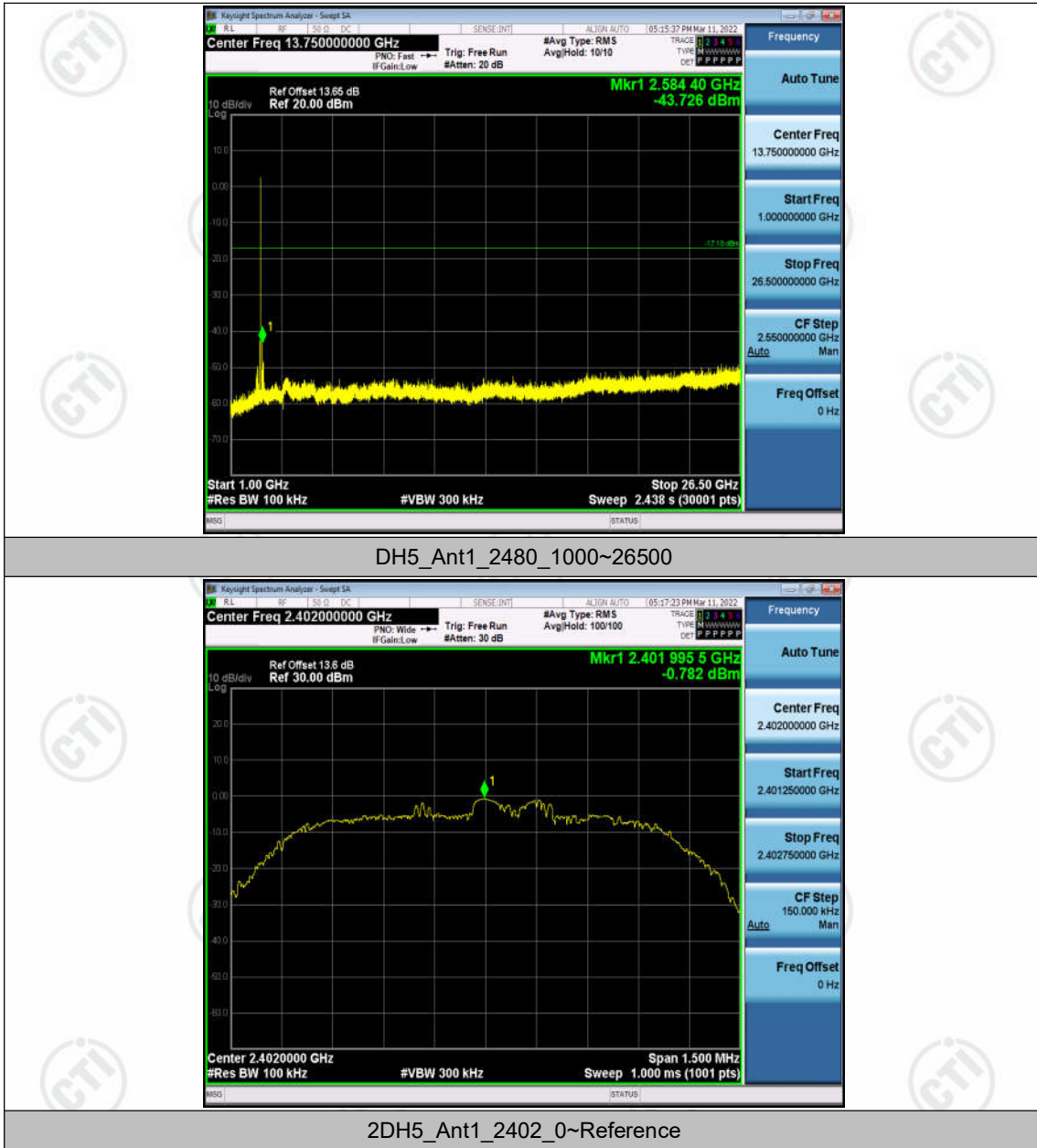
Test Graphs

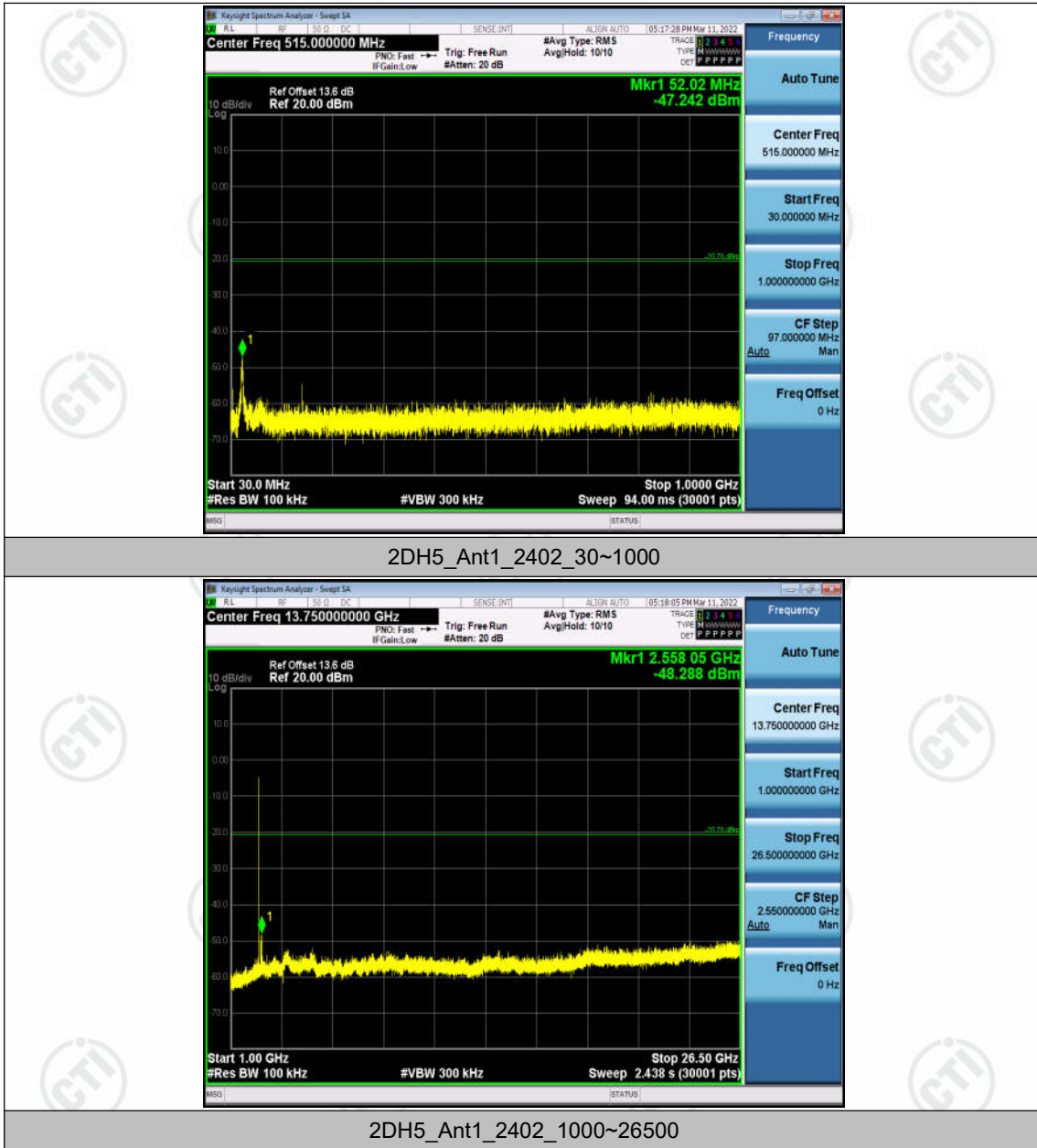


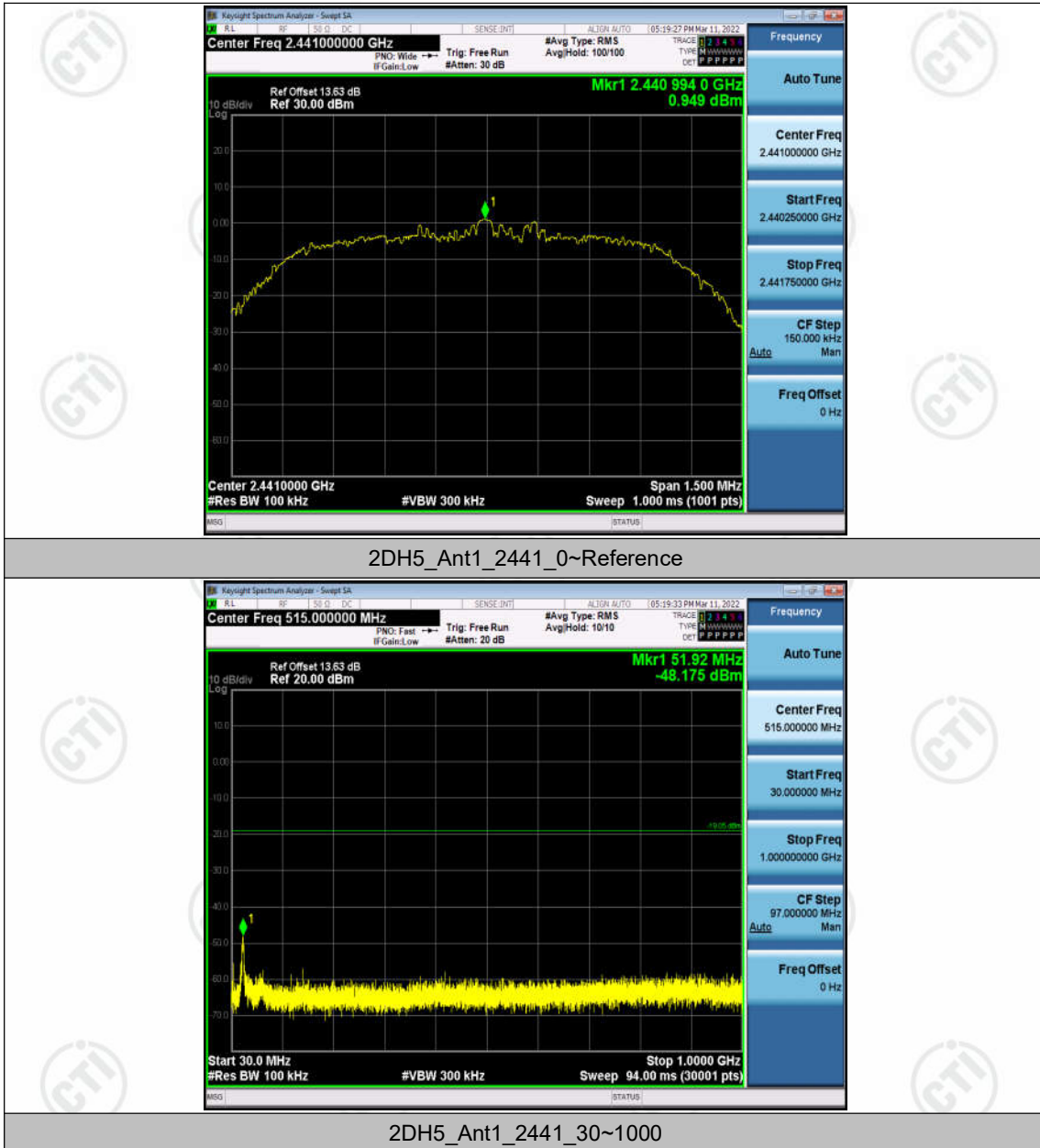


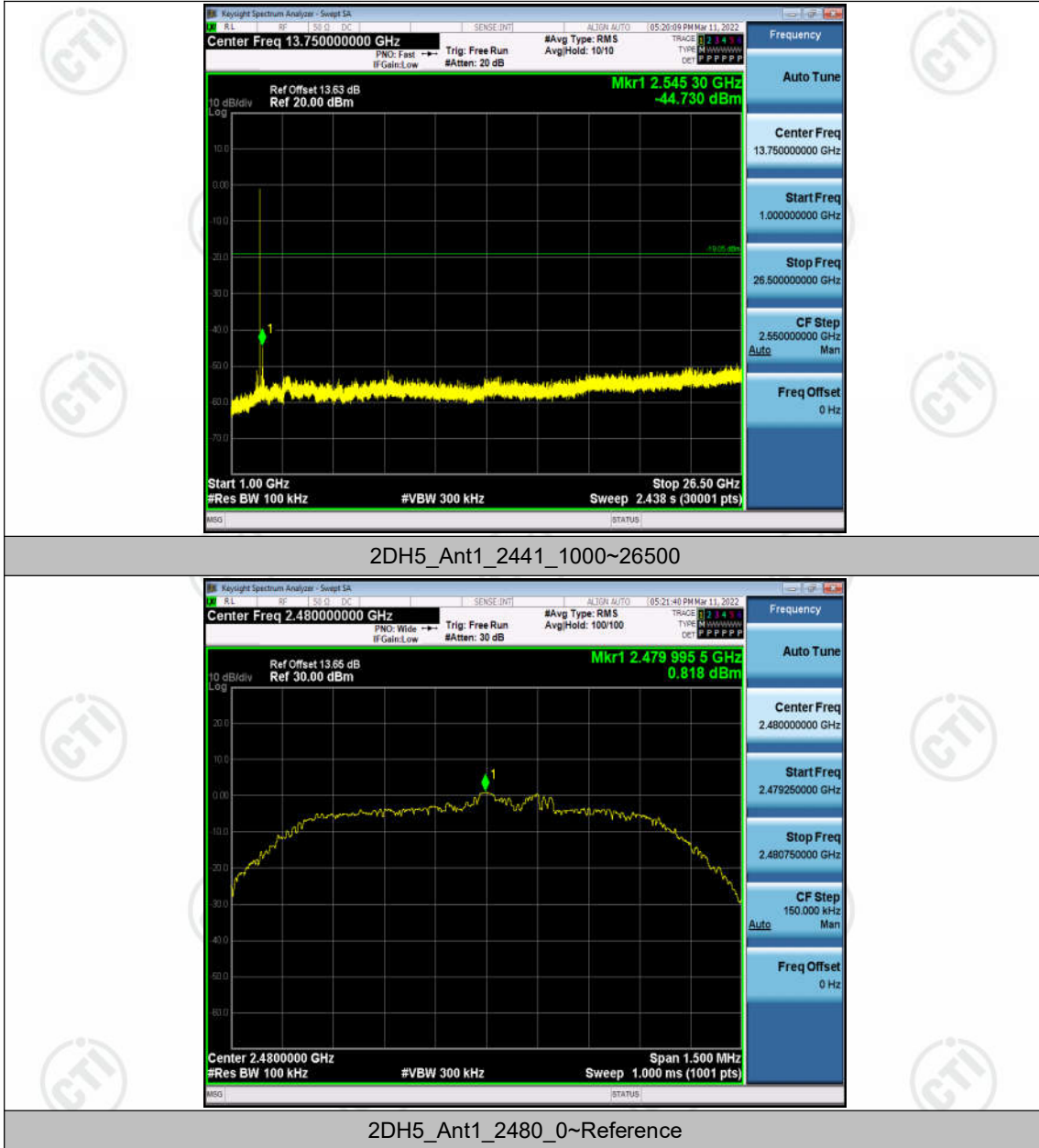


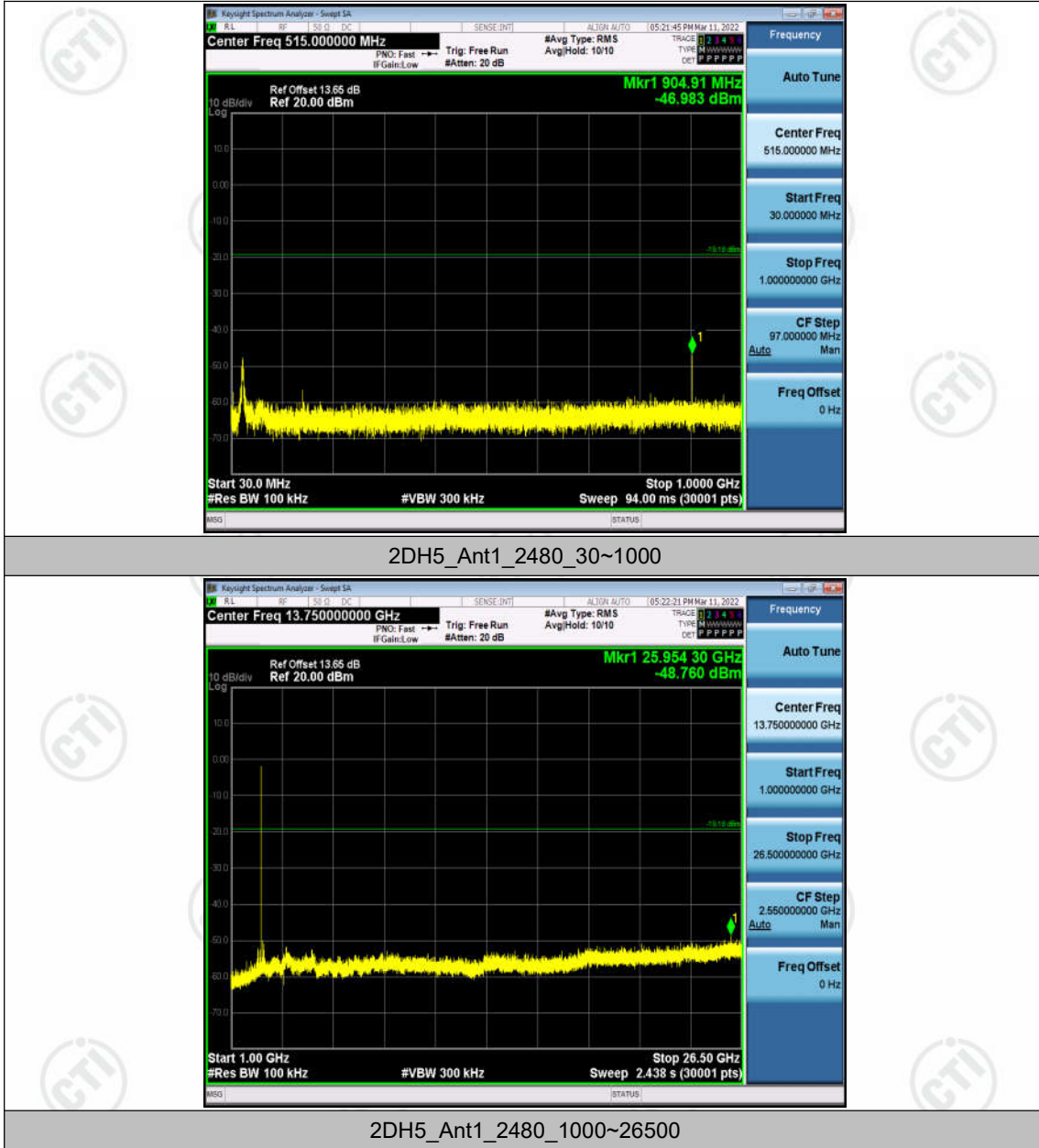


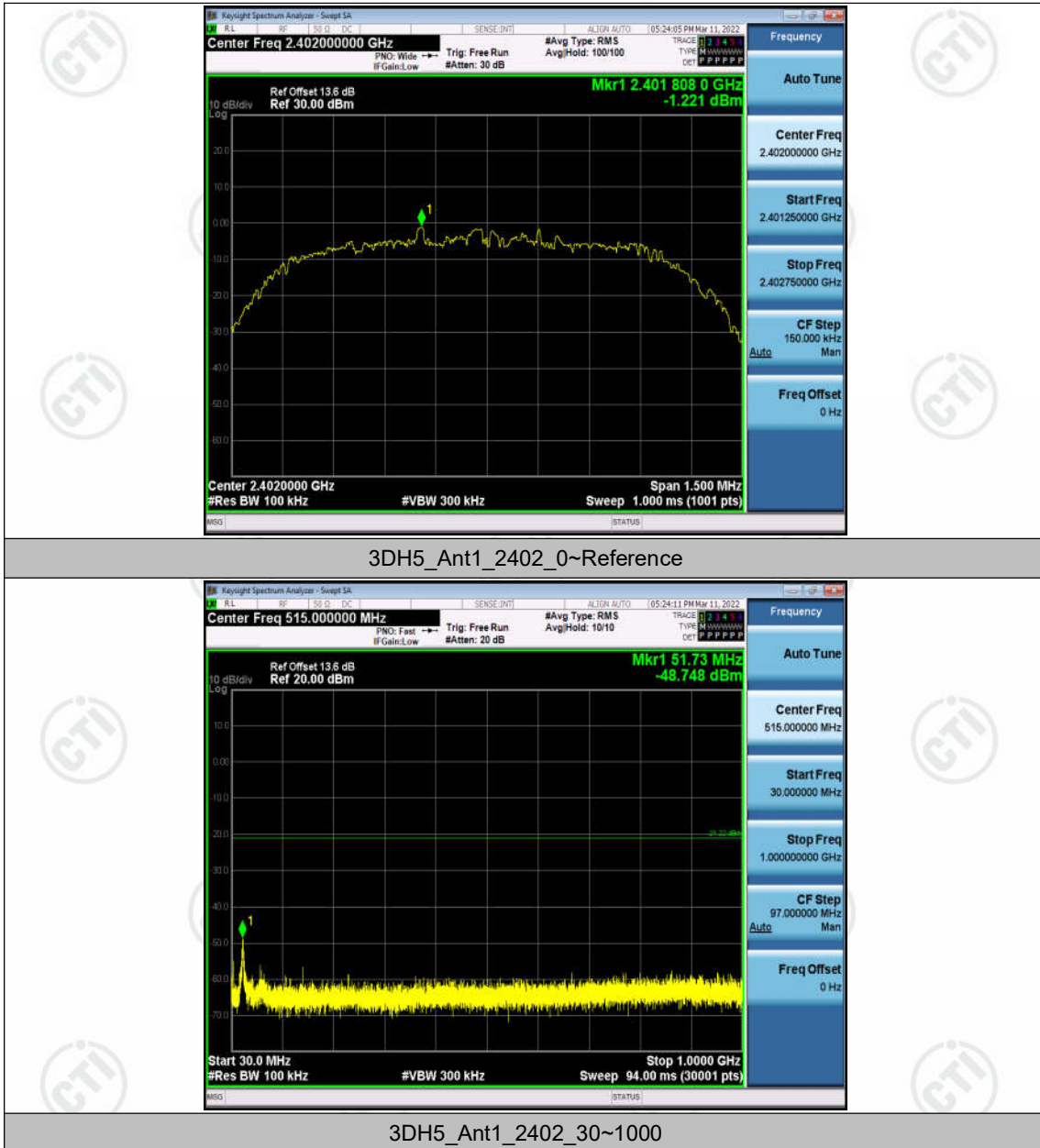


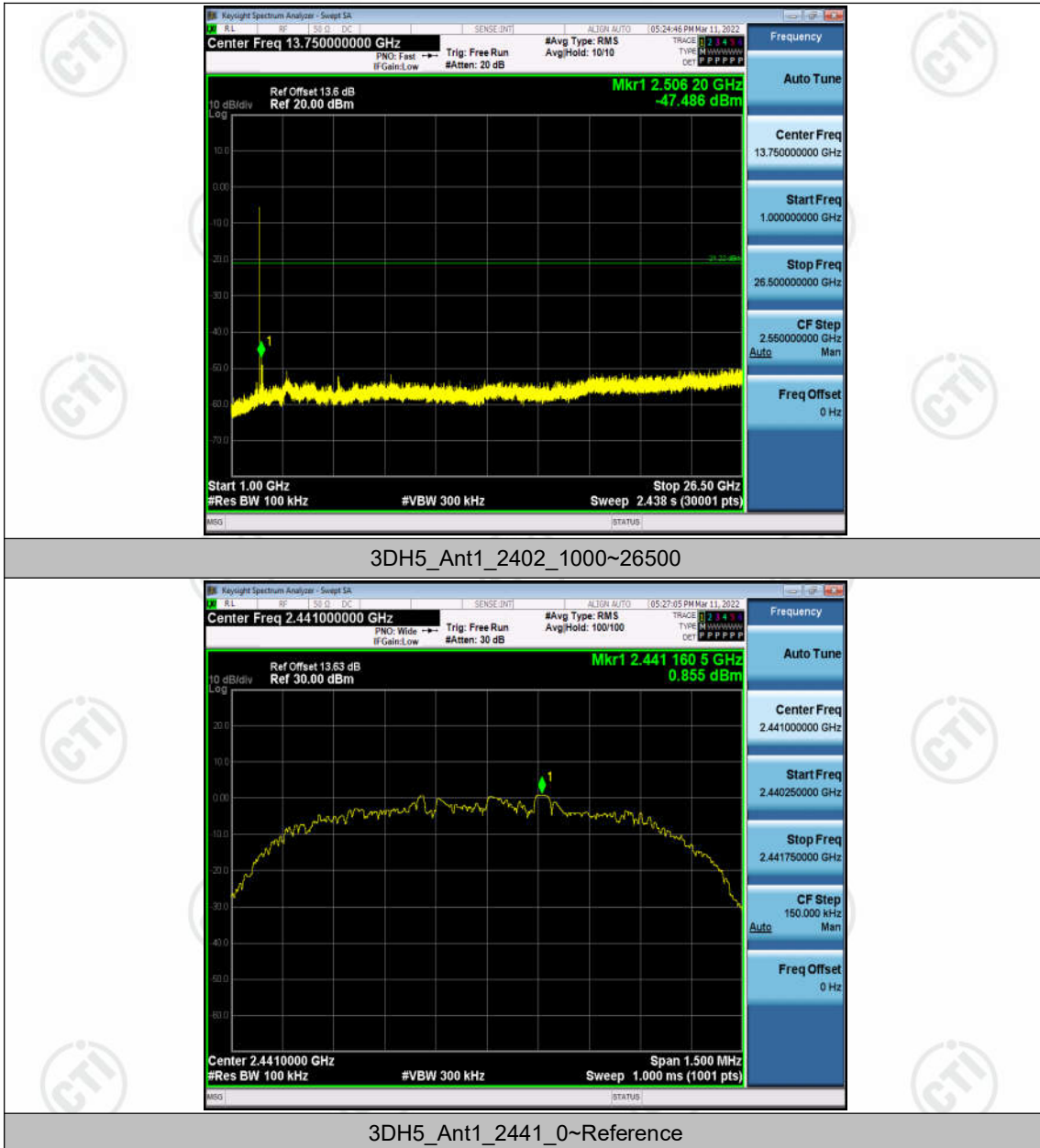


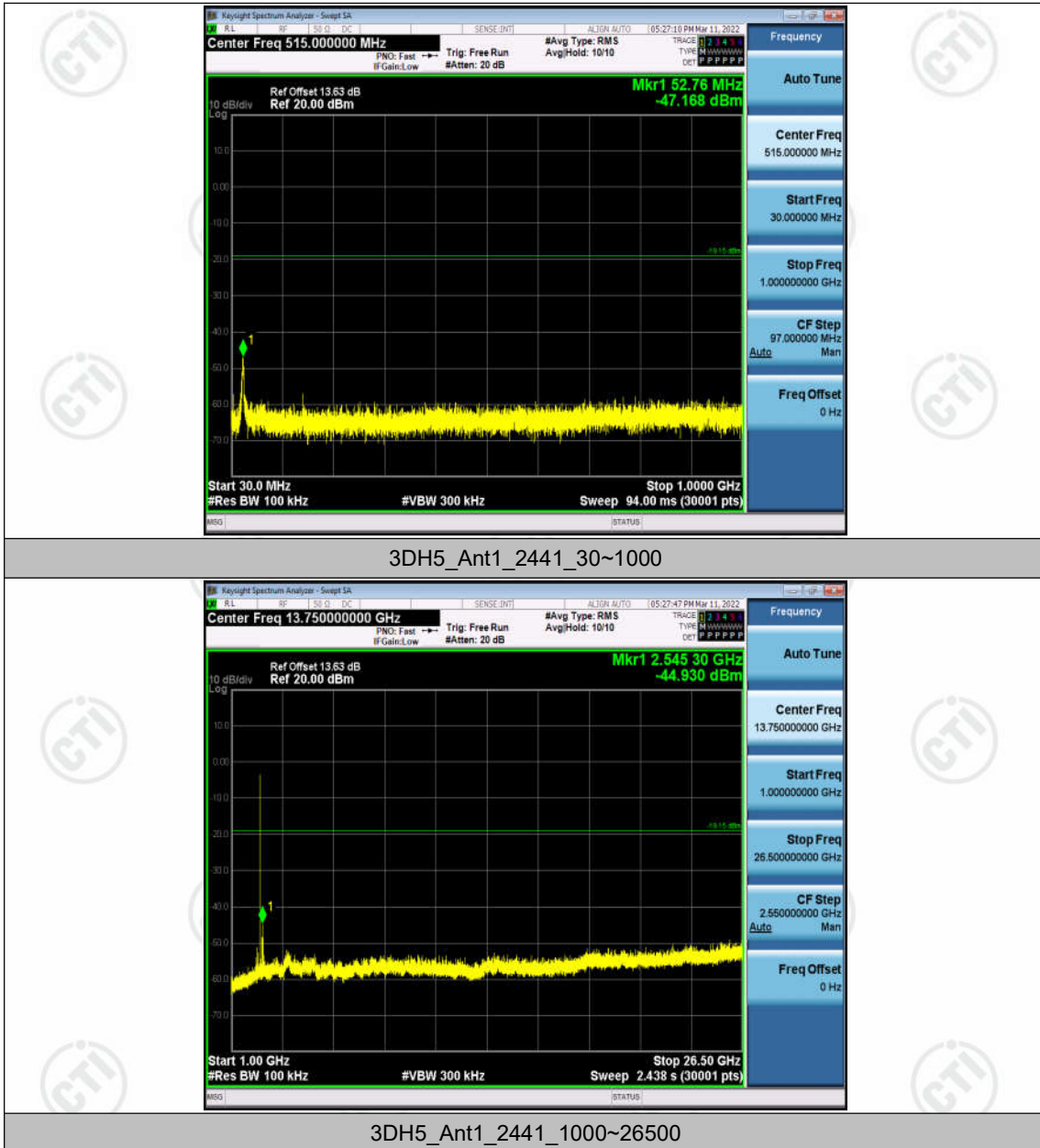


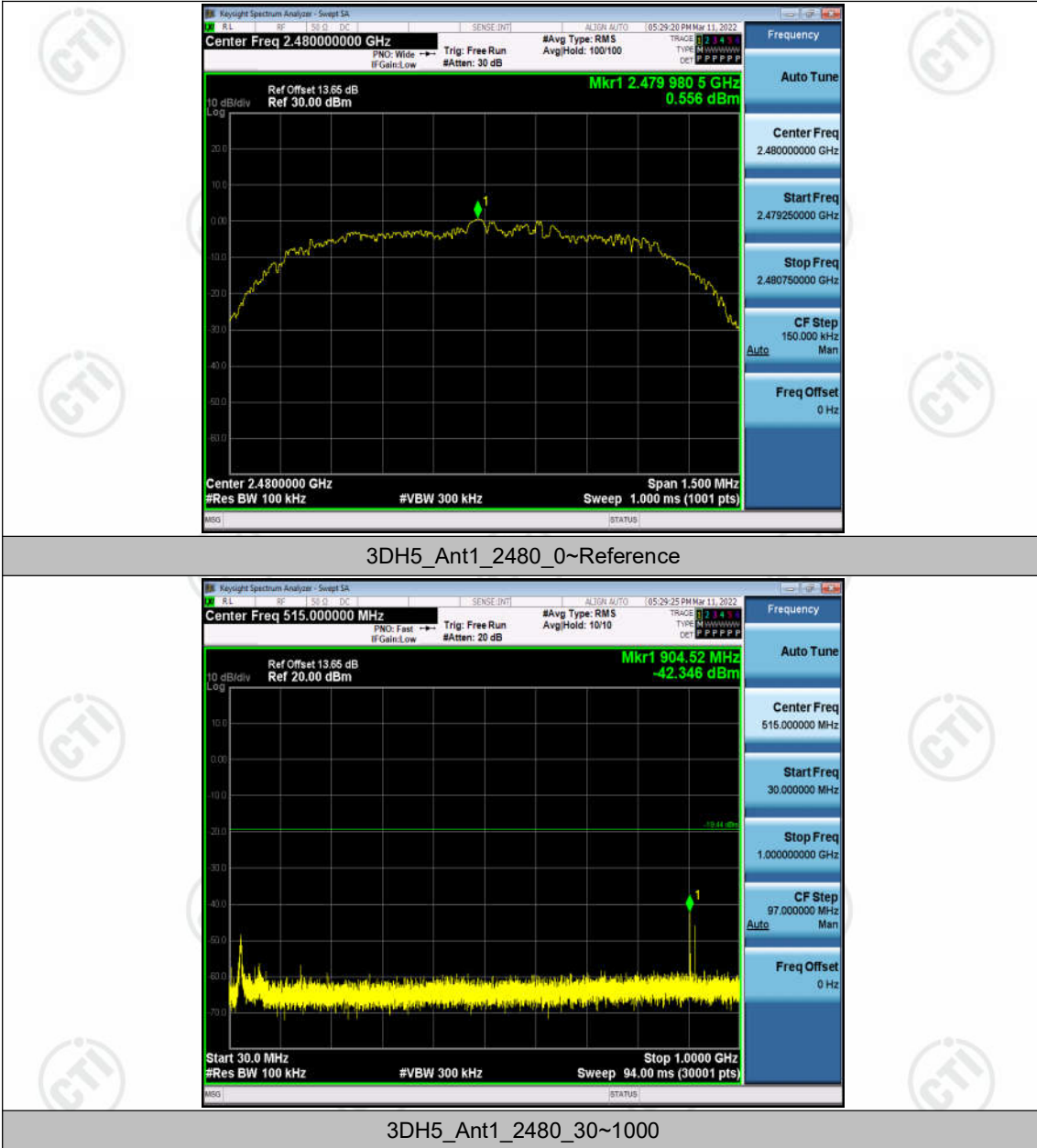


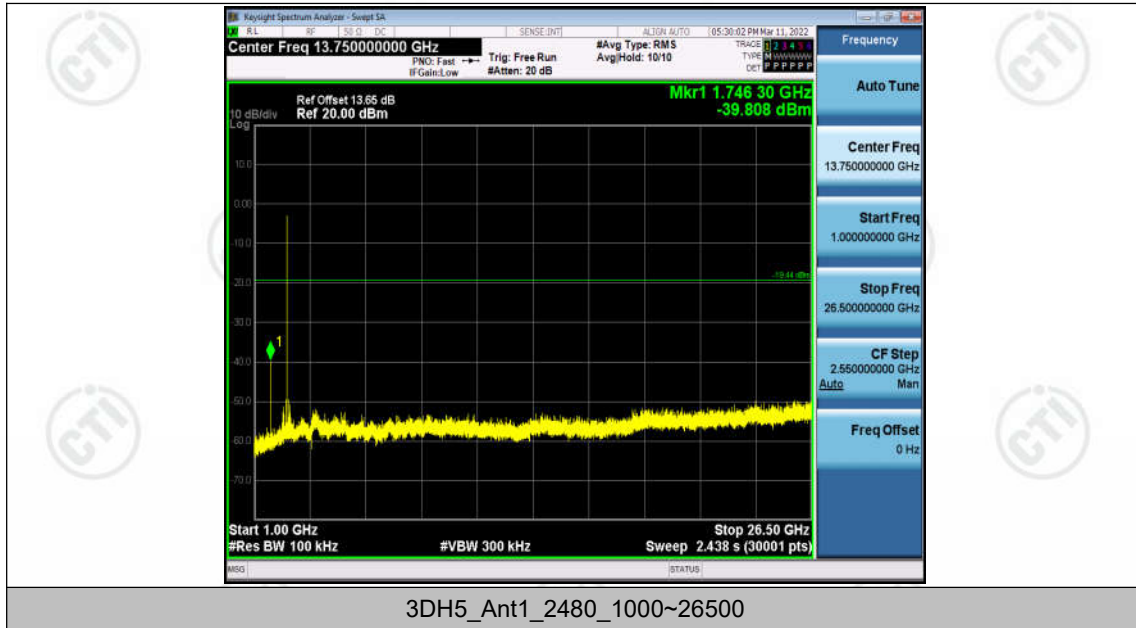








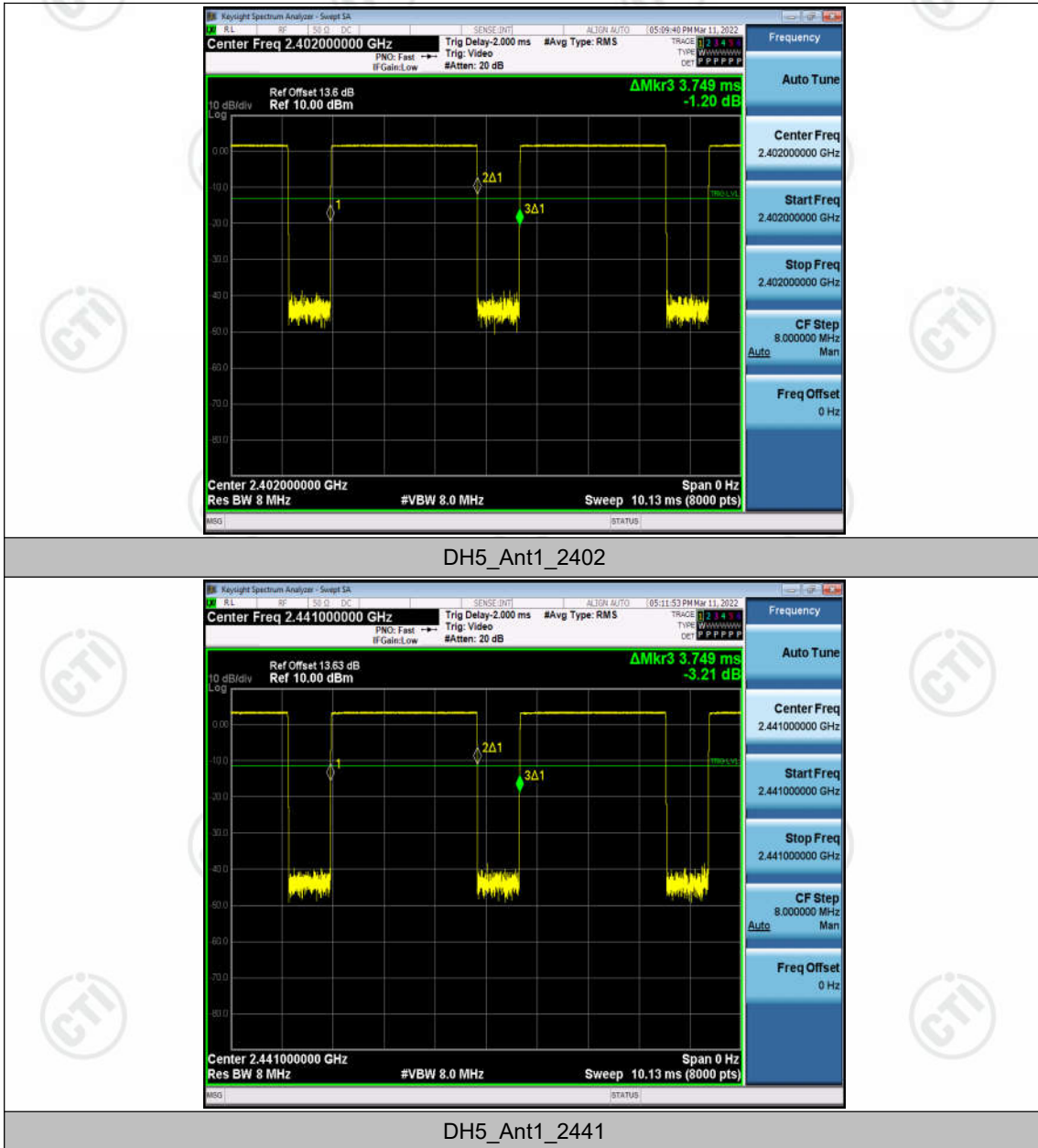


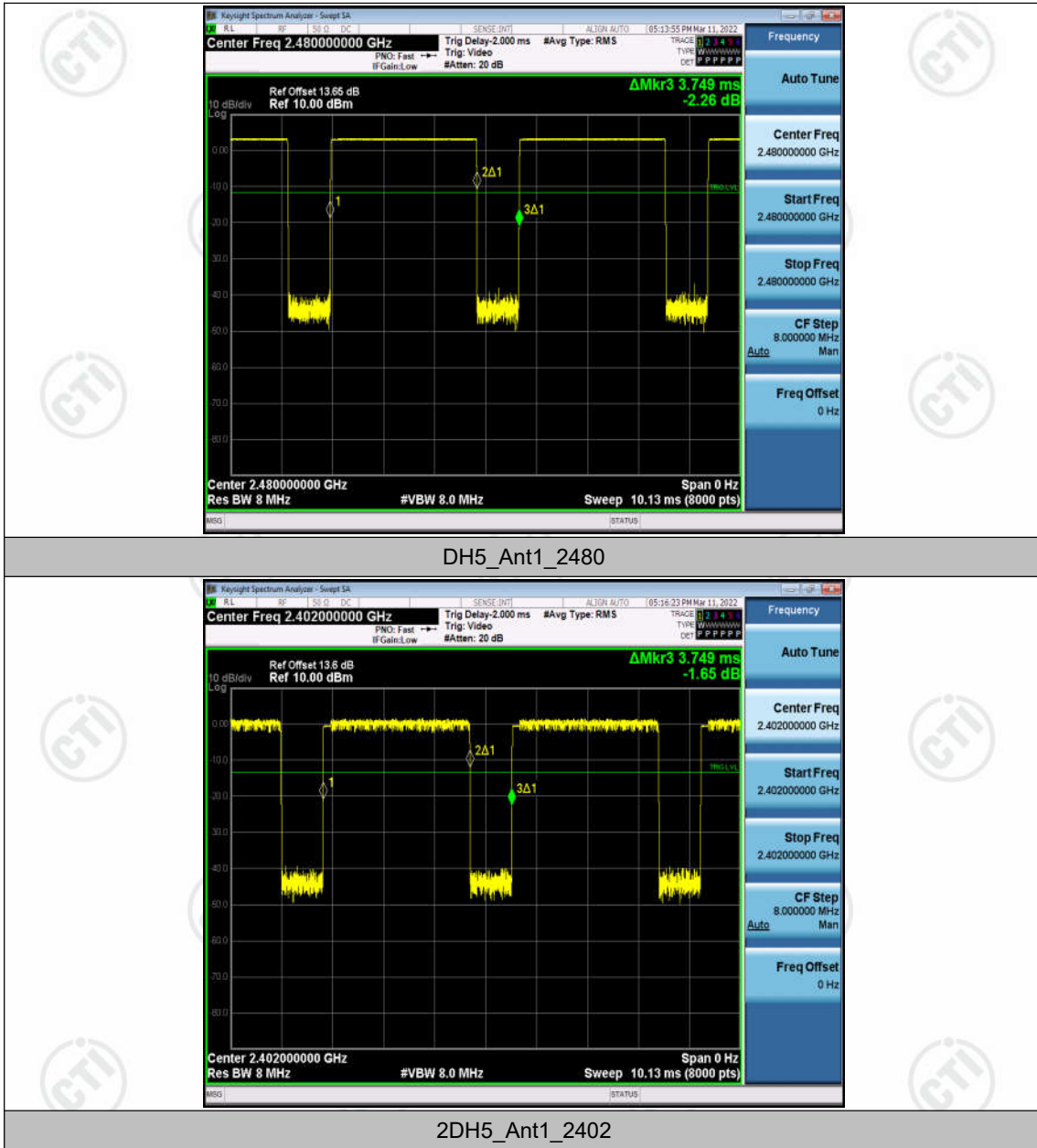


Appendix I: Duty Cycle**Test Result**

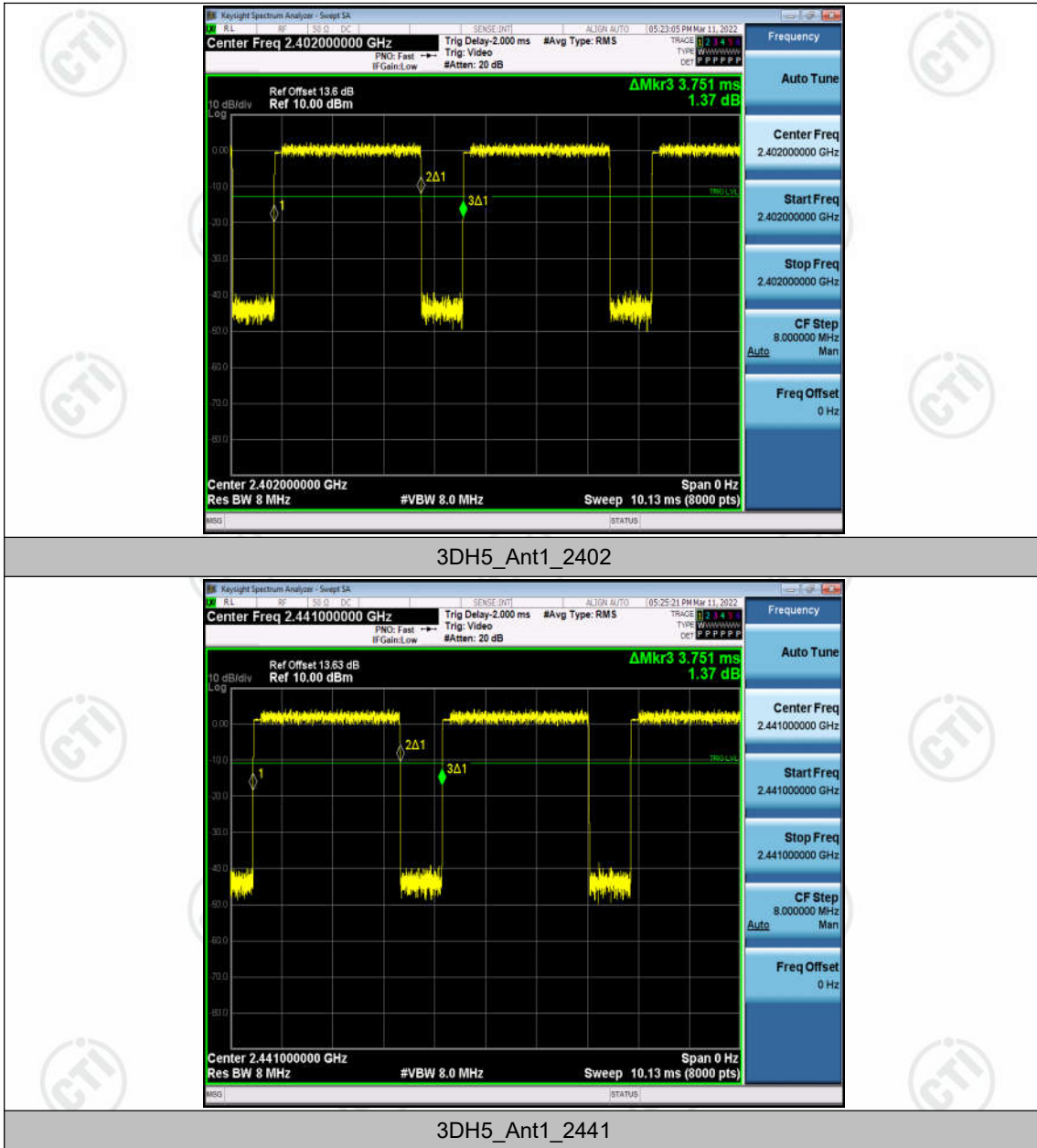
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.67	---	PASS
		2441	2.91	3.75	77.67	---	PASS
		2480	2.91	3.75	77.67	---	PASS
2DH5	Ant1	2402	2.92	3.75	77.87	---	PASS
		2441	2.92	3.75	77.85	---	PASS
		2480	2.92	3.75	77.85	---	PASS
3DH5	Ant1	2402	2.92	3.75	77.88	---	PASS
		2441	2.92	3.75	77.88	---	PASS
		2480	2.92	3.75	77.88	---	PASS

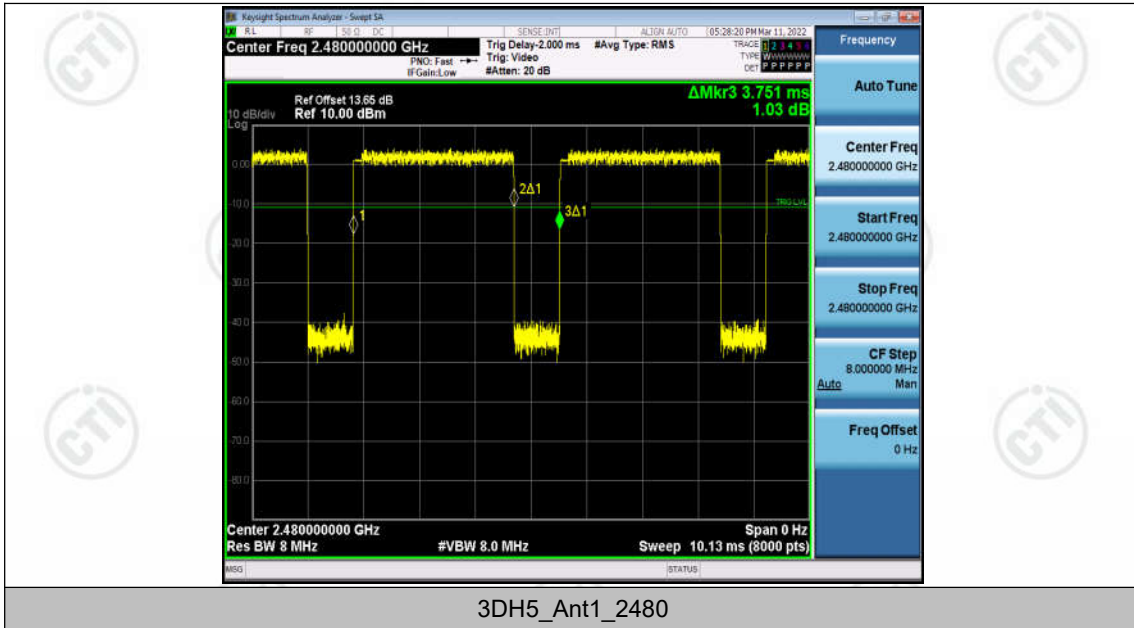
Test Graphs











*** End of Report ***