

Appendix: Bluetooth Classic

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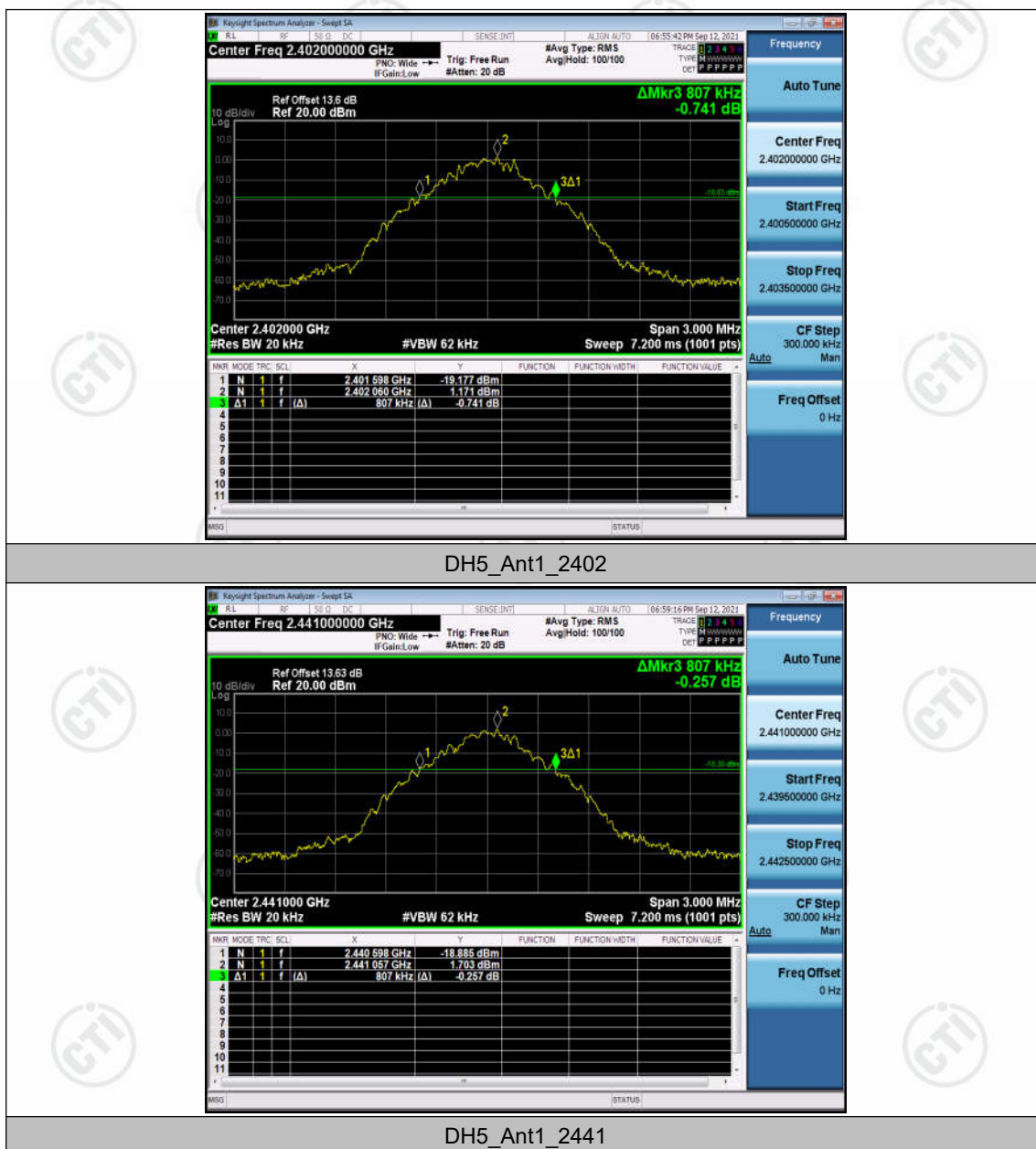
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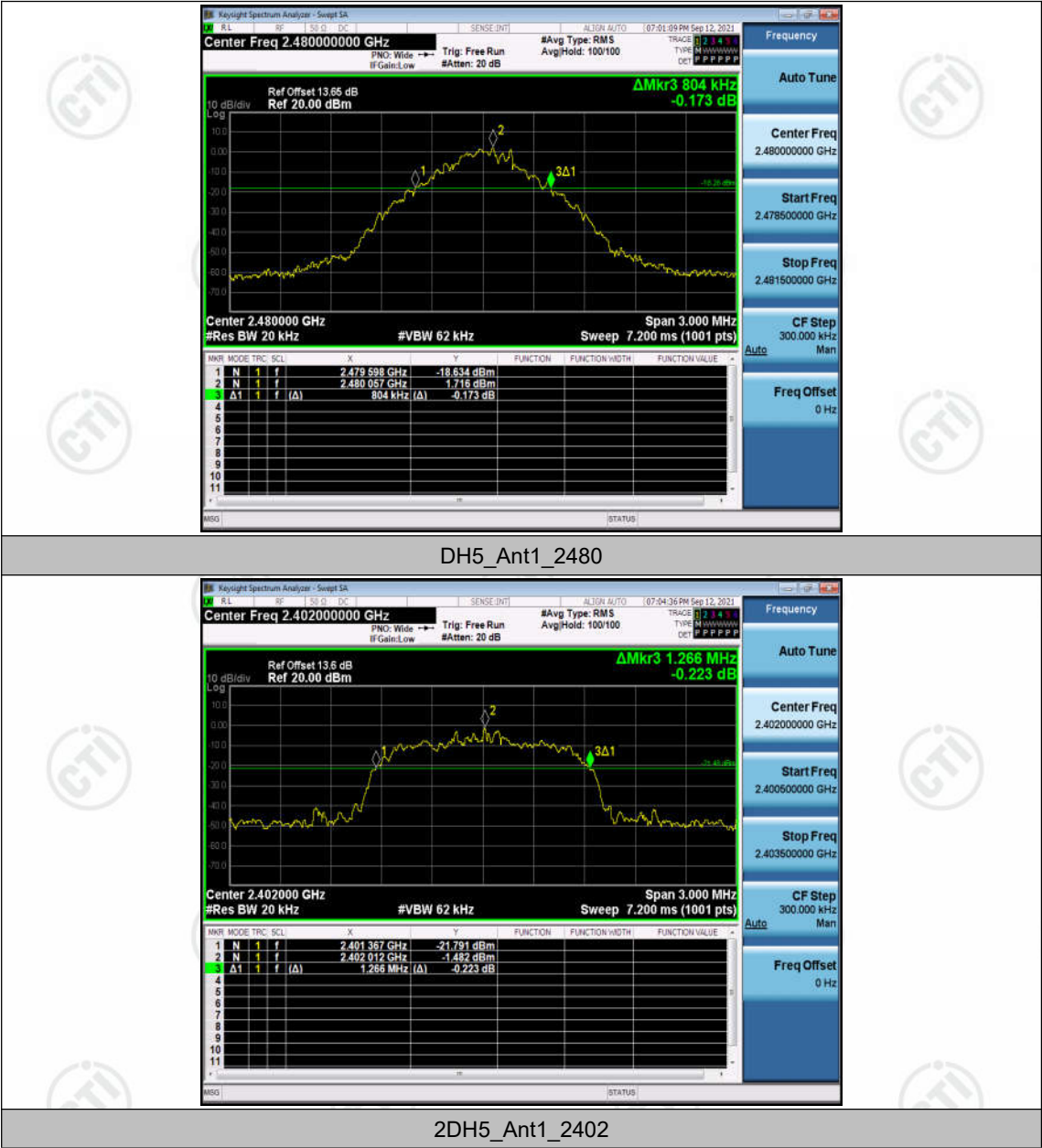
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.807	2401.598	2402.405	---	PASS
		2441	0.807	2440.598	2441.405	---	PASS
		2480	0.804	2479.598	2480.402	---	PASS
2DH5	Ant1	2402	1.266	2401.367	2402.633	---	PASS
		2441	1.263	2440.370	2441.633	---	PASS
		2480	1.269	2479.367	2480.636	---	PASS
3DH5	Ant1	2402	1.284	2401.349	2402.633	---	PASS
		2441	1.260	2440.358	2441.618	---	PASS
		2480	1.251	2479.364	2480.615	---	PASS

Test Graphs



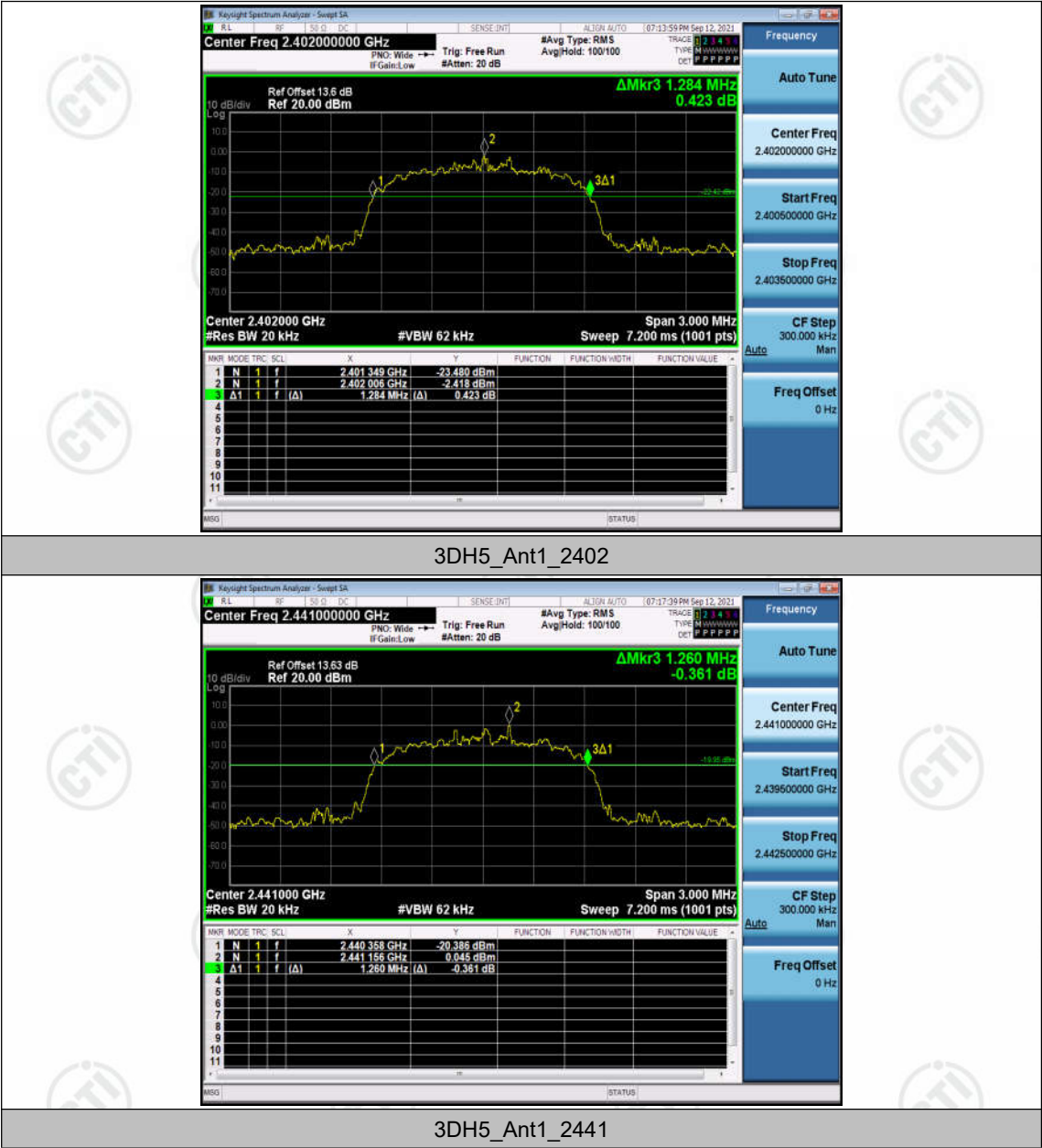




2DHS_Ant1_2441



2DHS_Ant1_2480



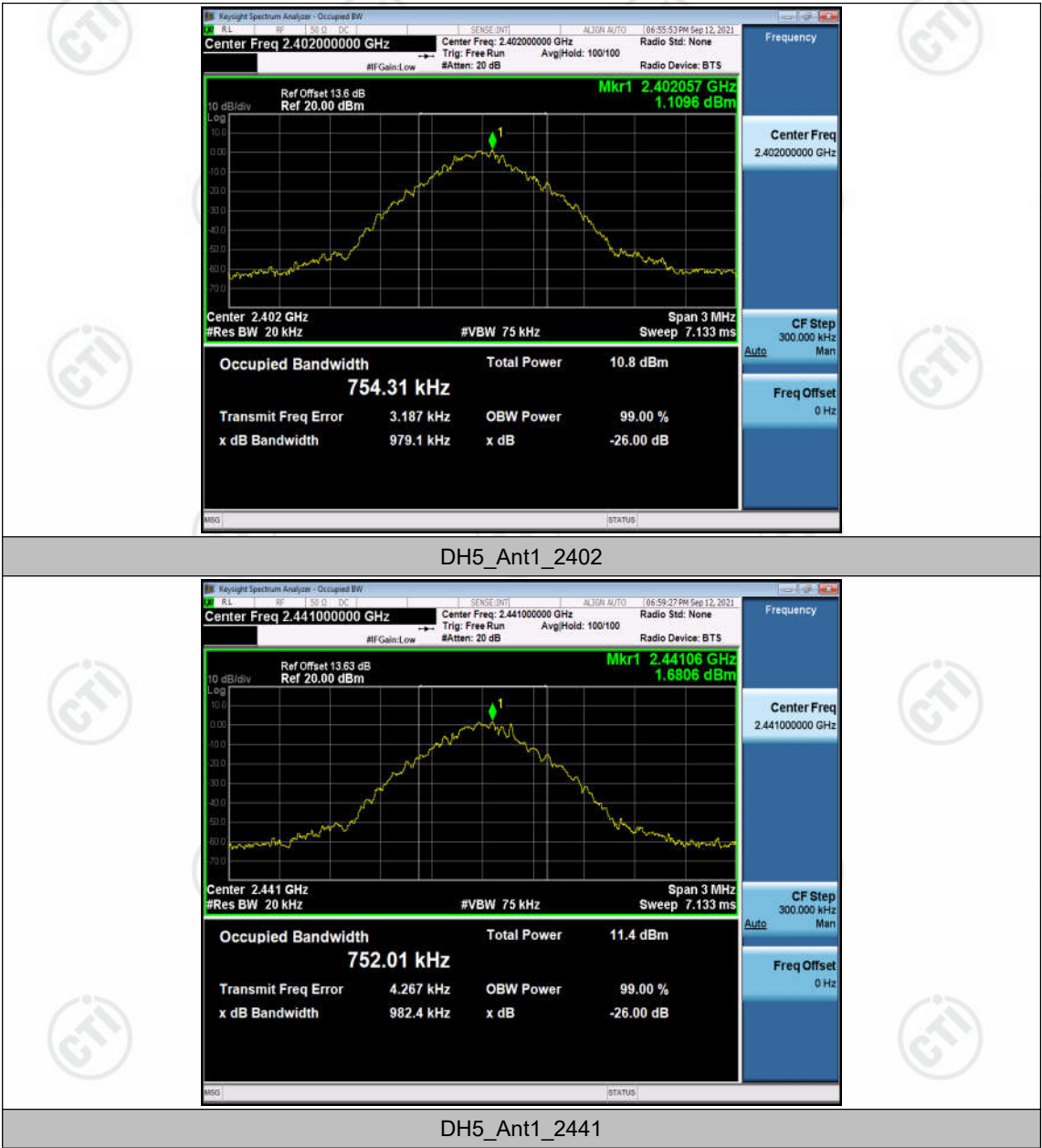


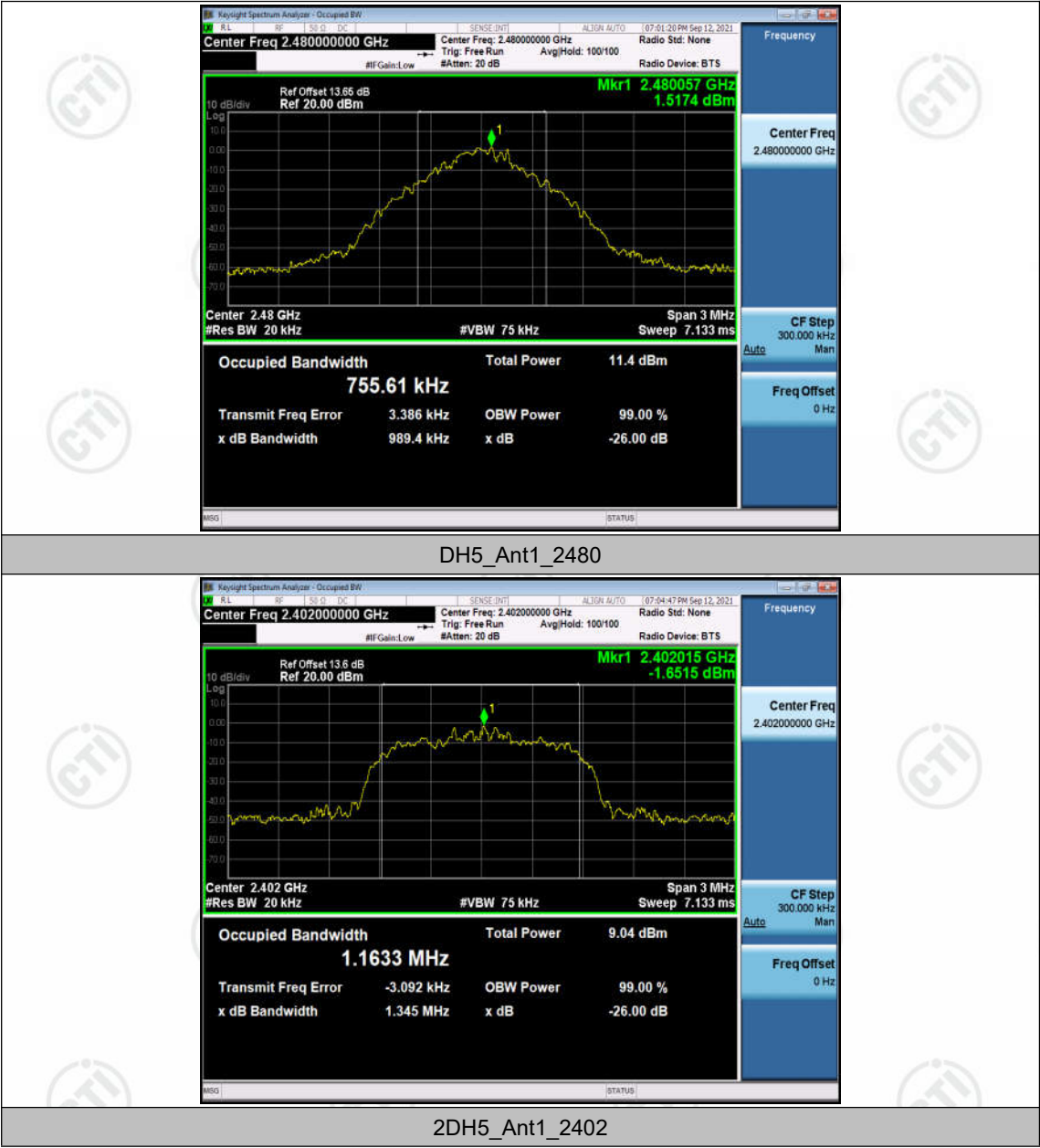
Appendix B: Occupied Channel Bandwidth

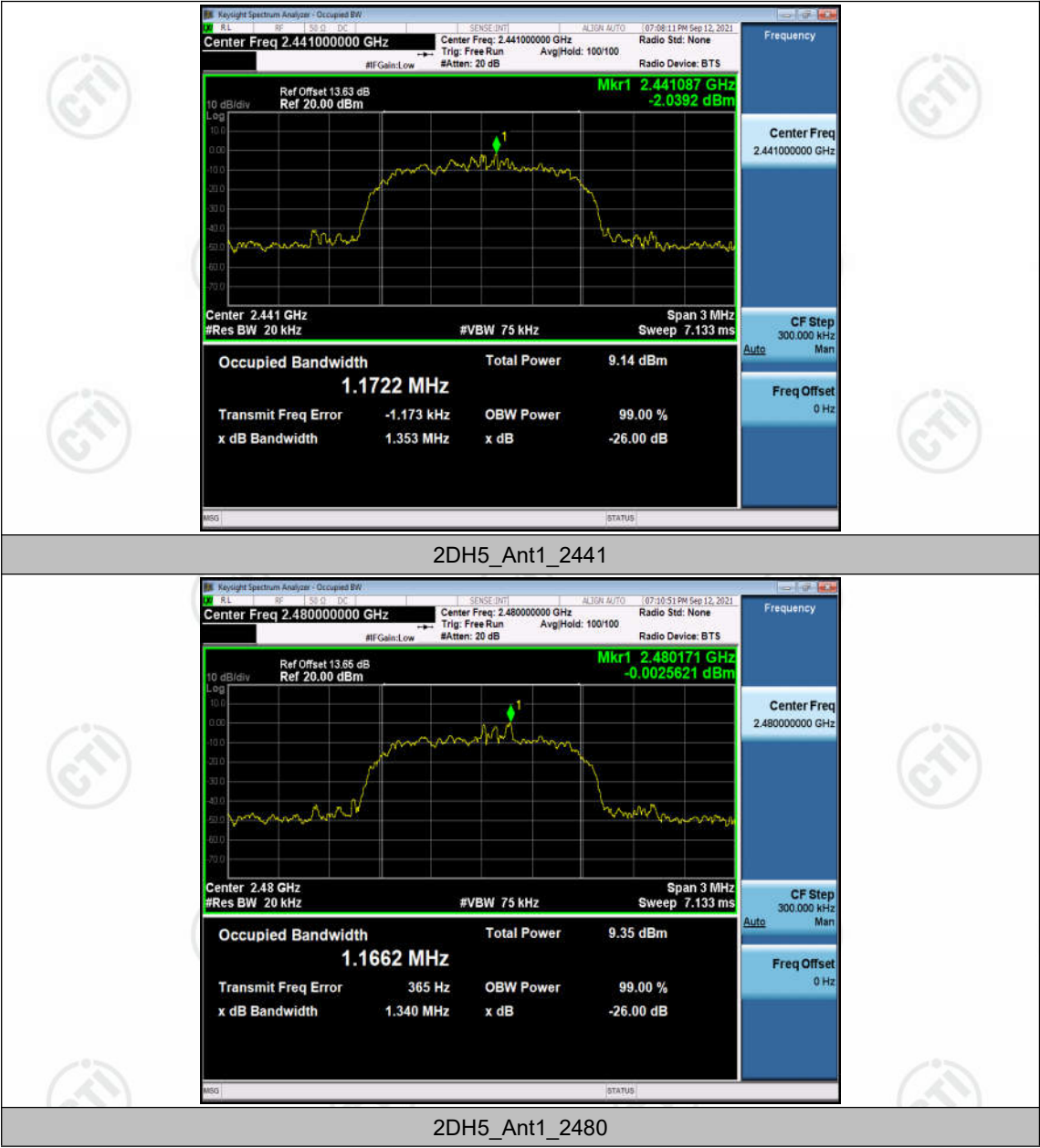
Test Result

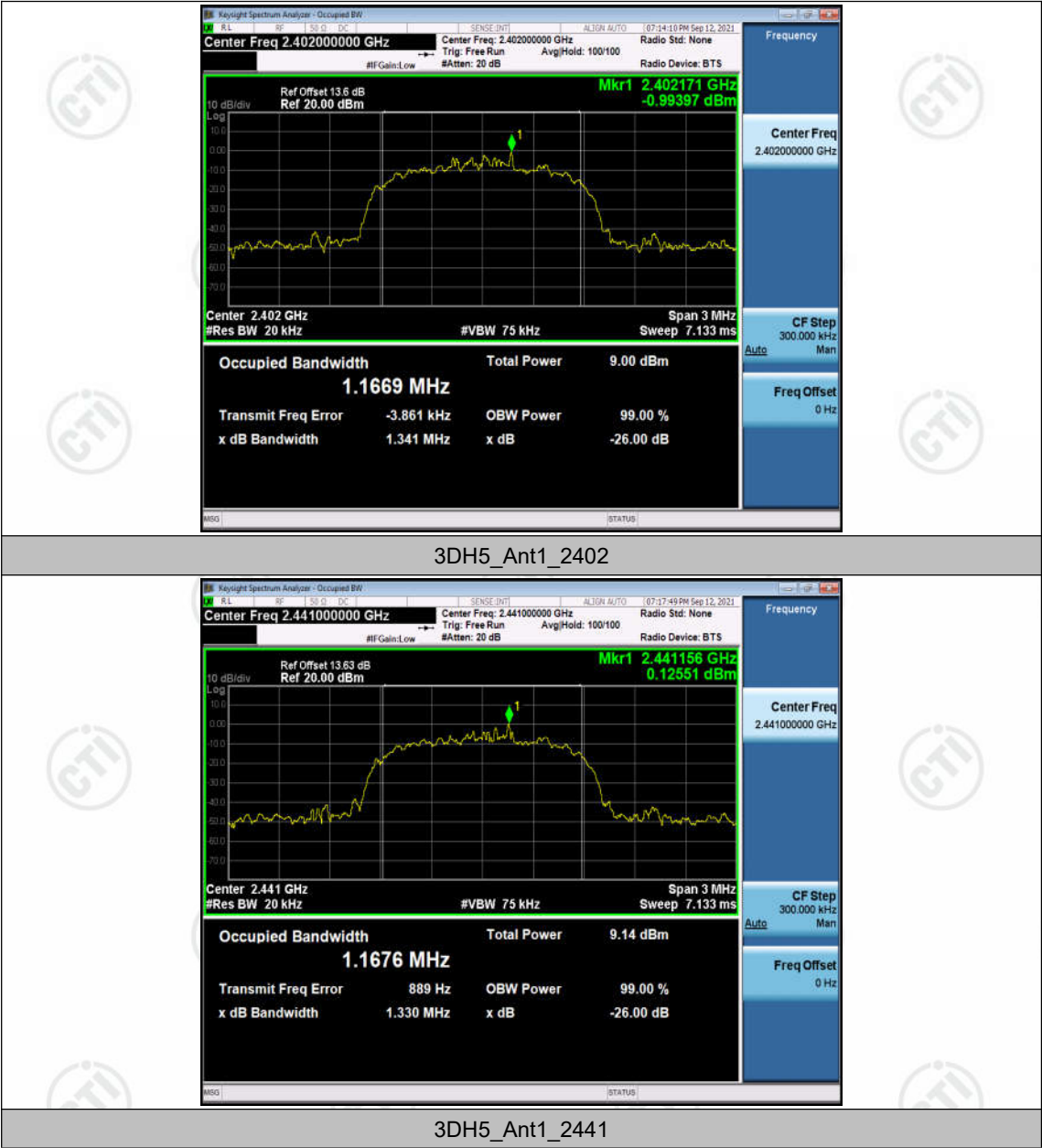
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.75431	2401.626	2402.380	---	PASS
		2441	0.75201	2440.628	2441.380	---	PASS
		2480	0.75561	2479.626	2480.381	---	PASS
2DH5	Ant1	2402	1.1633	2401.415	2402.579	---	PASS
		2441	1.1722	2440.413	2441.585	---	PASS
		2480	1.1662	2479.417	2480.583	---	PASS
3DH5	Ant1	2402	1.1669	2401.413	2402.580	---	PASS
		2441	1.1676	2440.417	2441.585	---	PASS
		2480	1.1786	2479.404	2480.583	---	PASS

Test Graphs









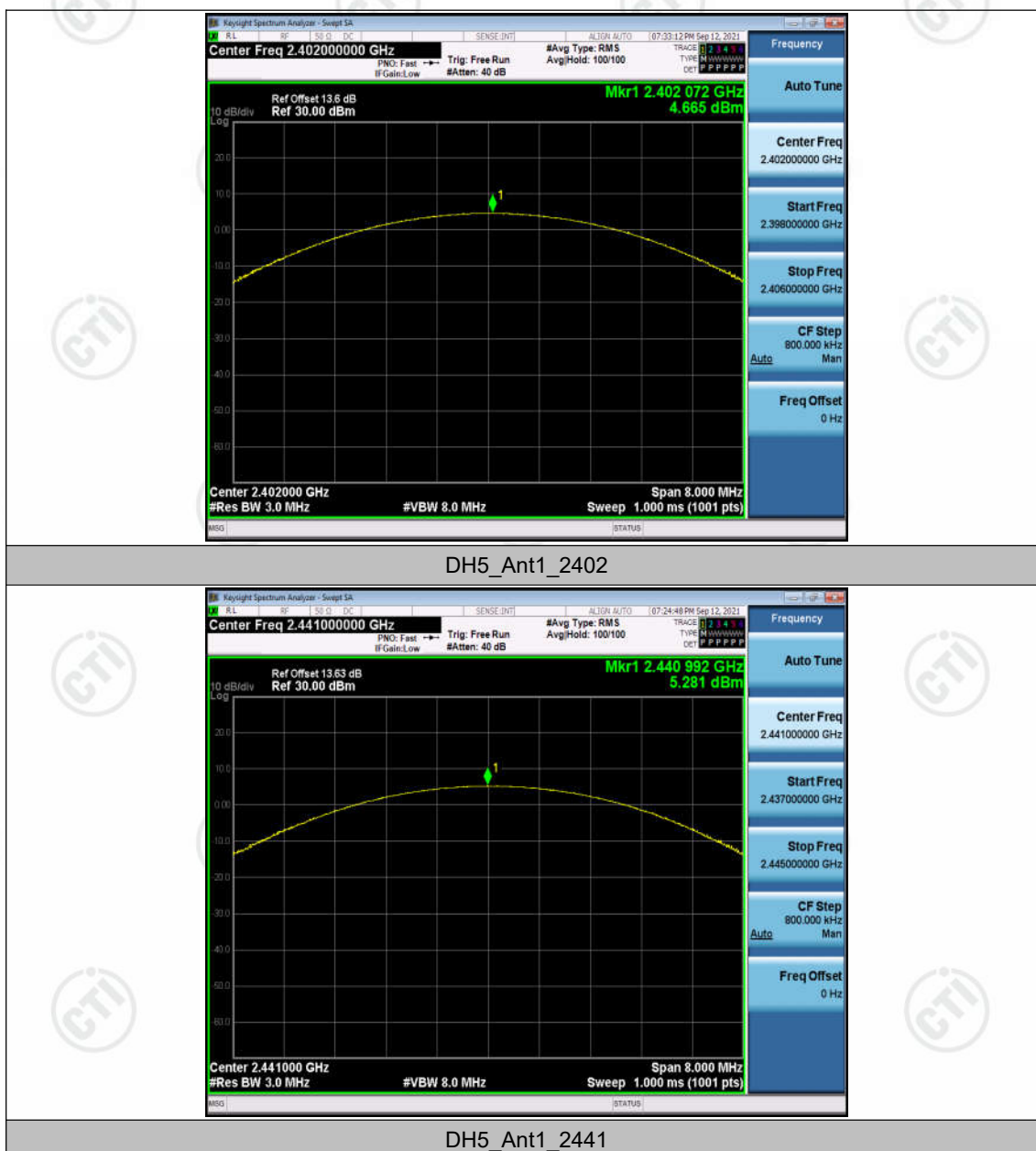


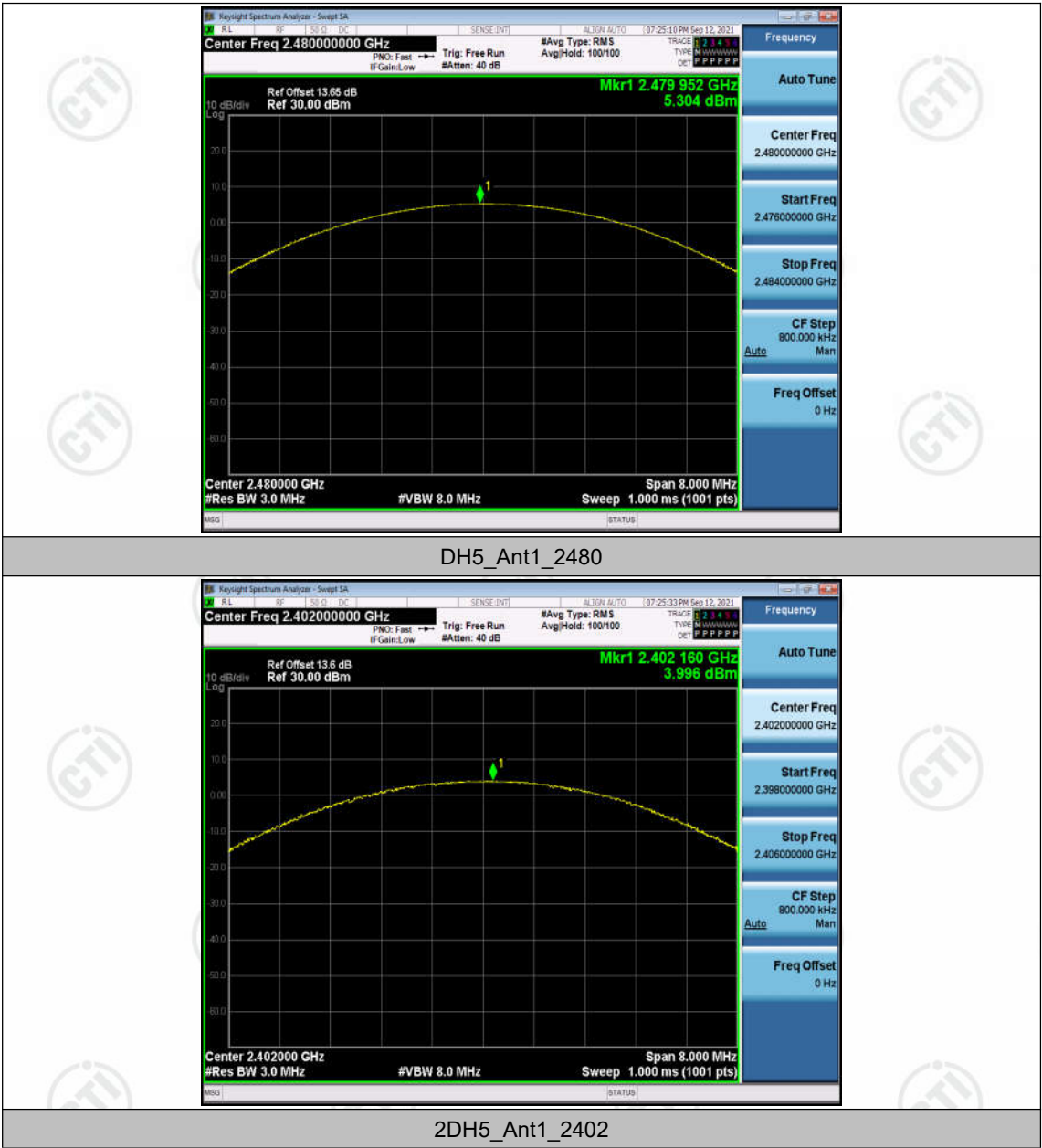
Appendix C: Maximum conducted output power

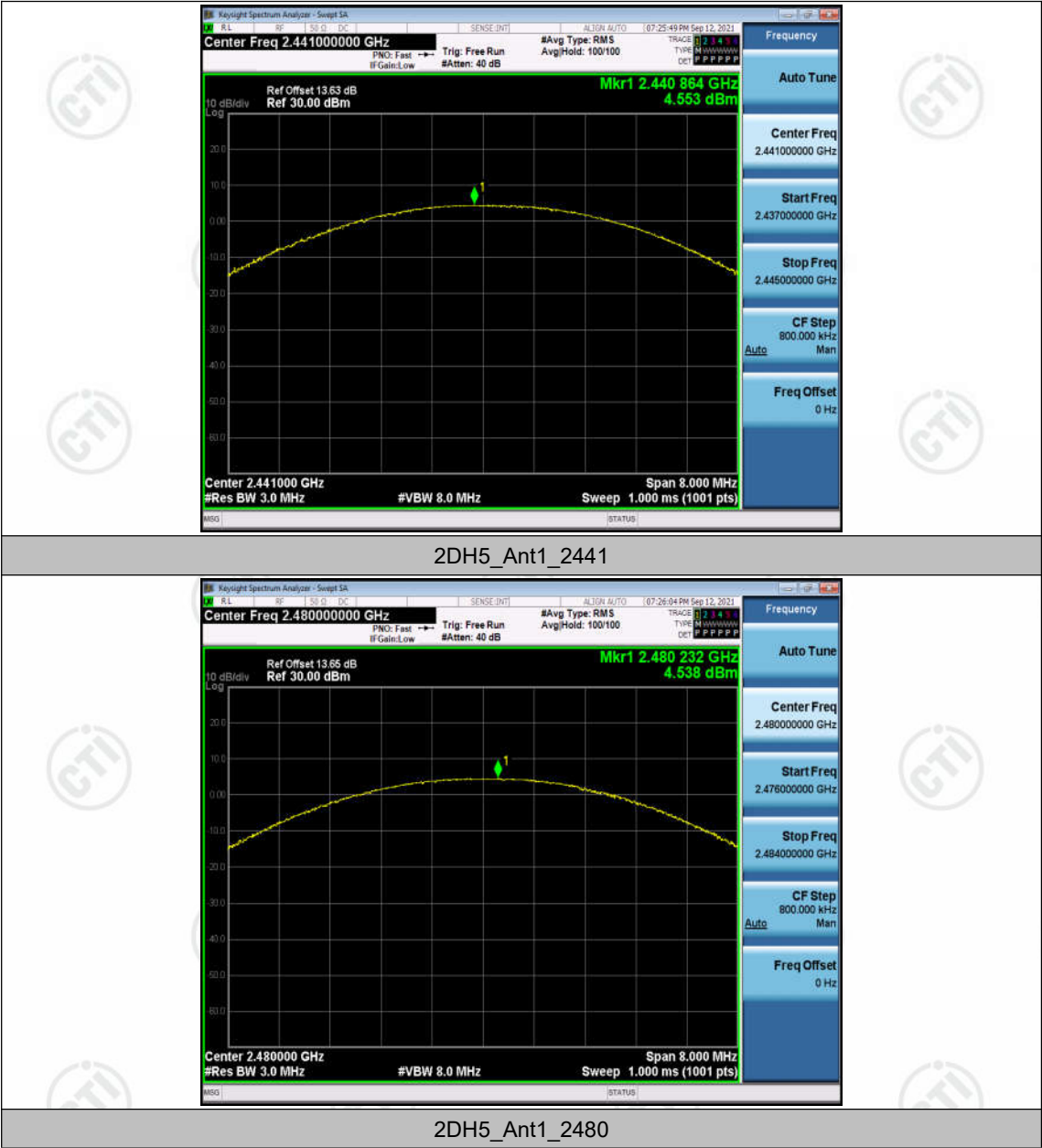
Test Result

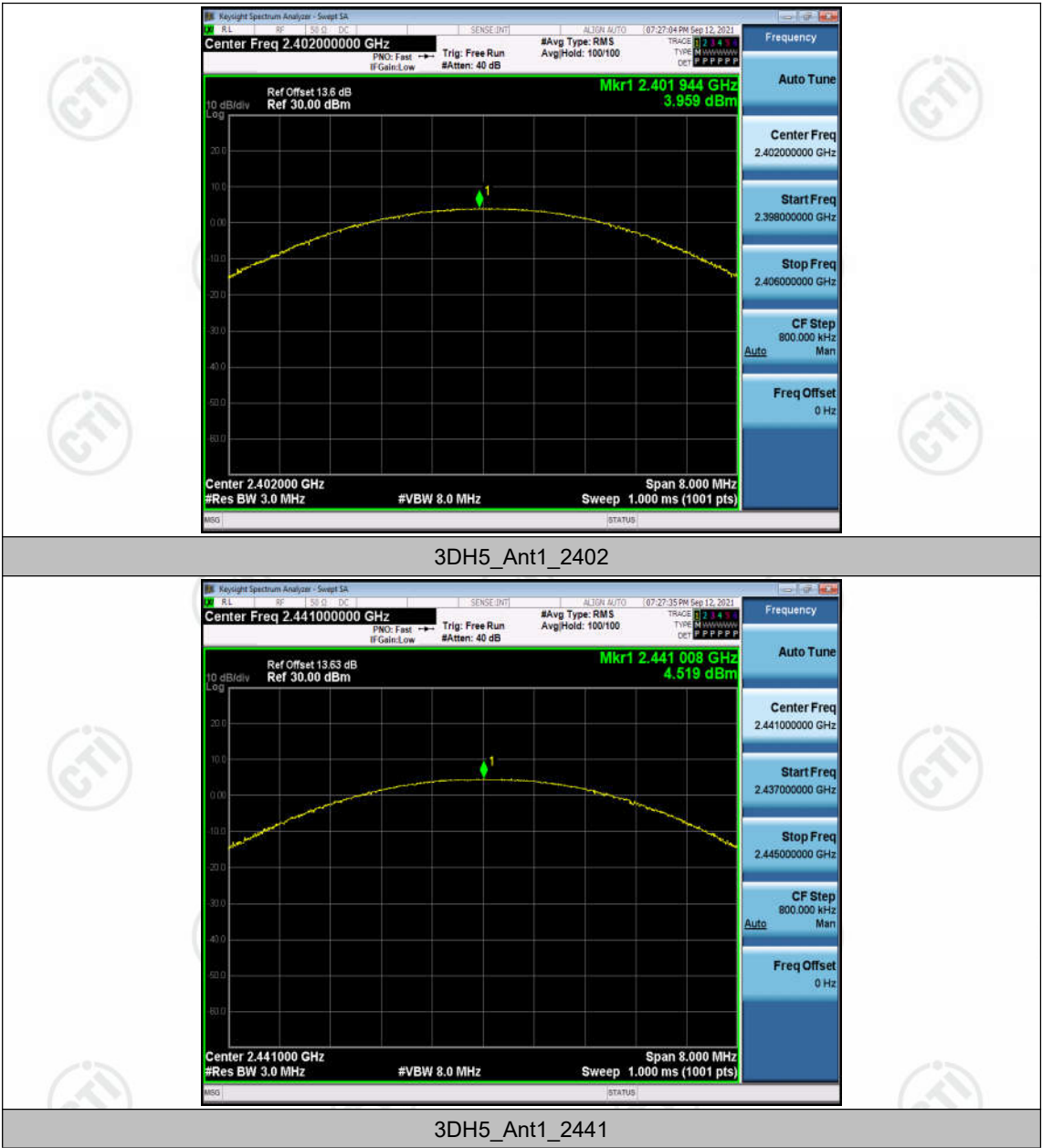
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	4.67	<=20.97	PASS
		2441	5.28	<=20.97	PASS
		2480	5.3	<=20.97	PASS
2DH5	Ant1	2402	4	<=20.97	PASS
		2441	4.55	<=20.97	PASS
		2480	4.54	<=20.97	PASS
3DH5	Ant1	2402	3.96	<=20.97	PASS
		2441	4.52	<=20.97	PASS
		2480	4.53	<=20.97	PASS

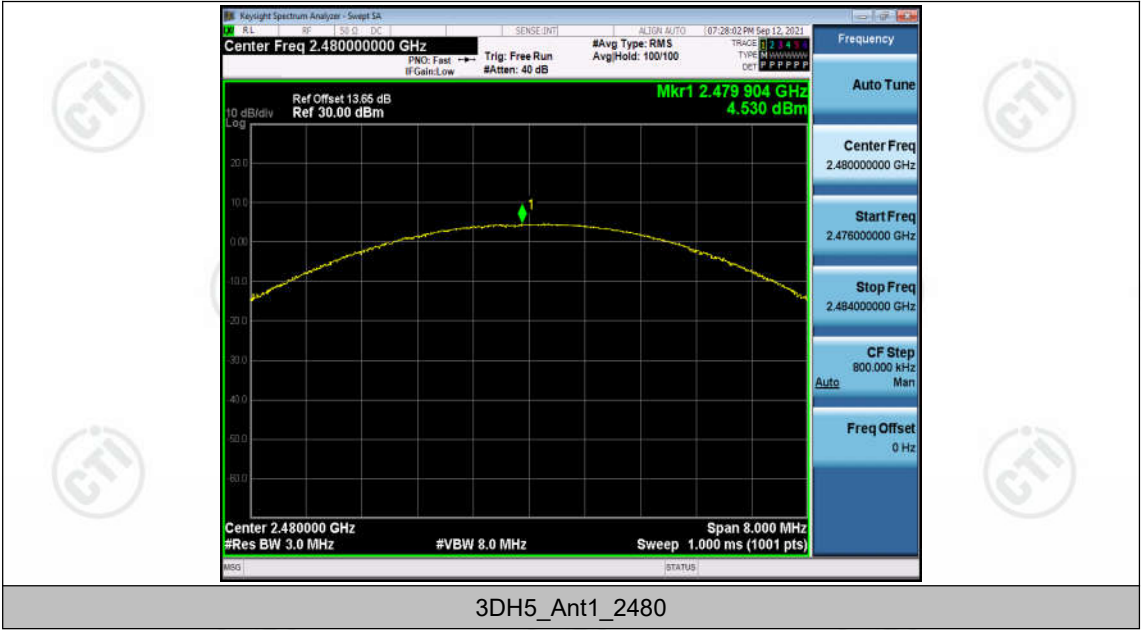
Test Graphs







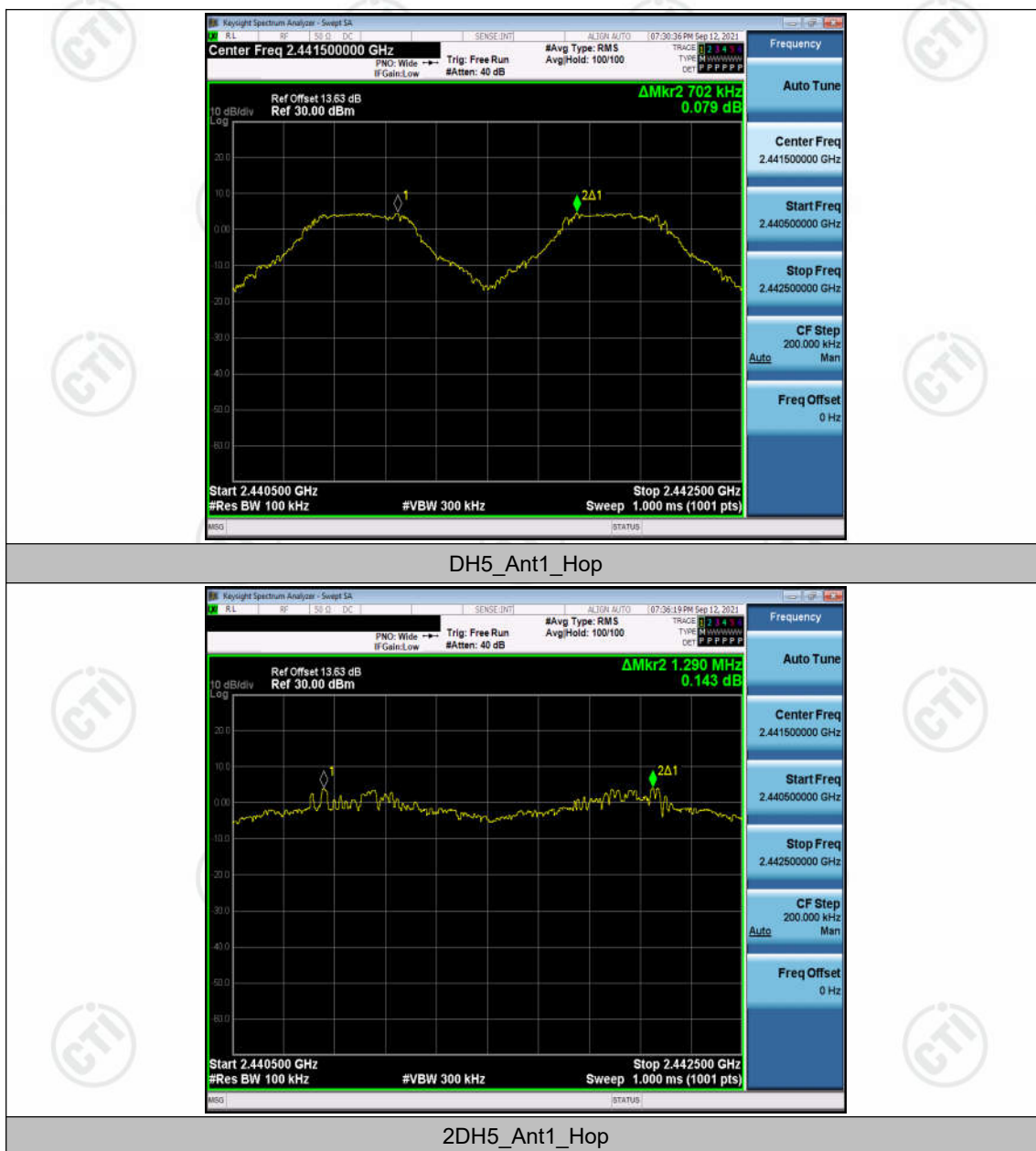


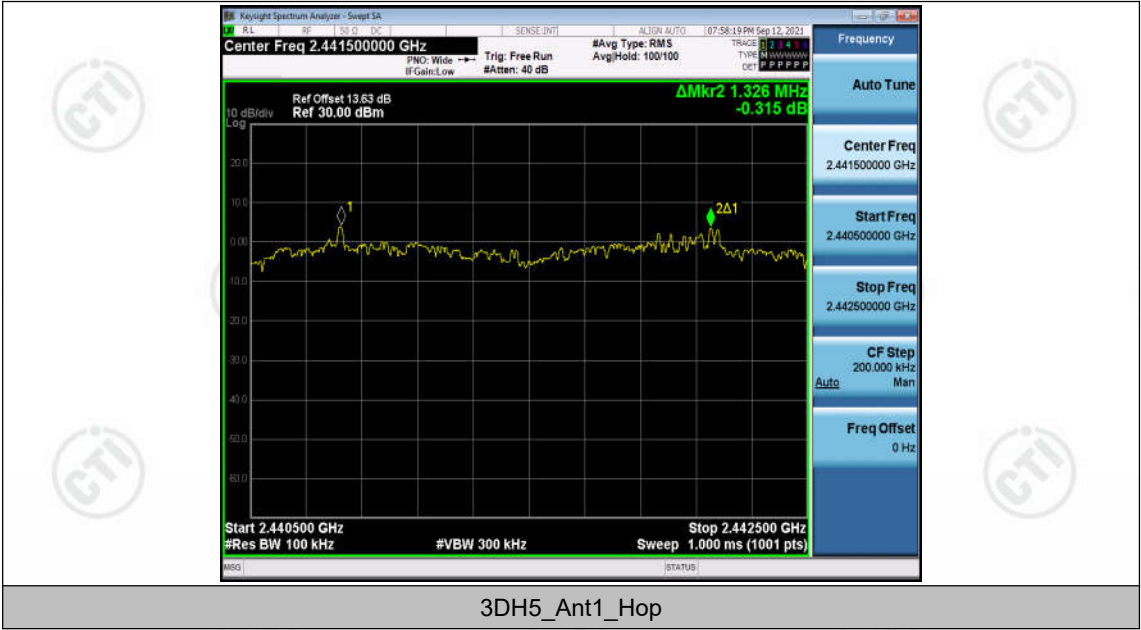


Appendix D: Carrier frequency separation**Test Result**

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.702	≥ 0.538	PASS
2DH5	Ant1	Hop	1.29	≥ 0.846	PASS
3DH5	Ant1	Hop	1.326	≥ 0.856	PASS

Test Graphs



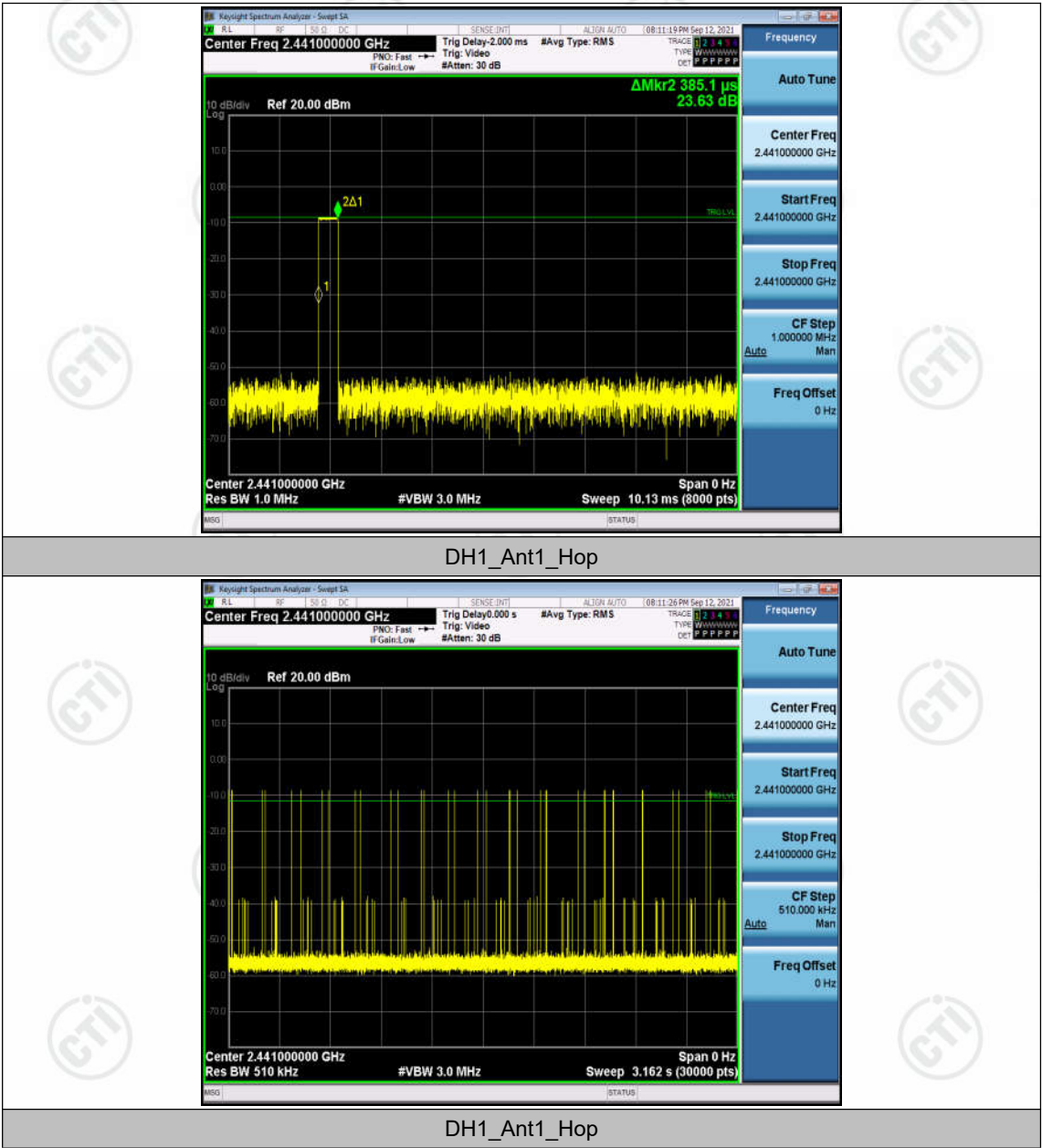


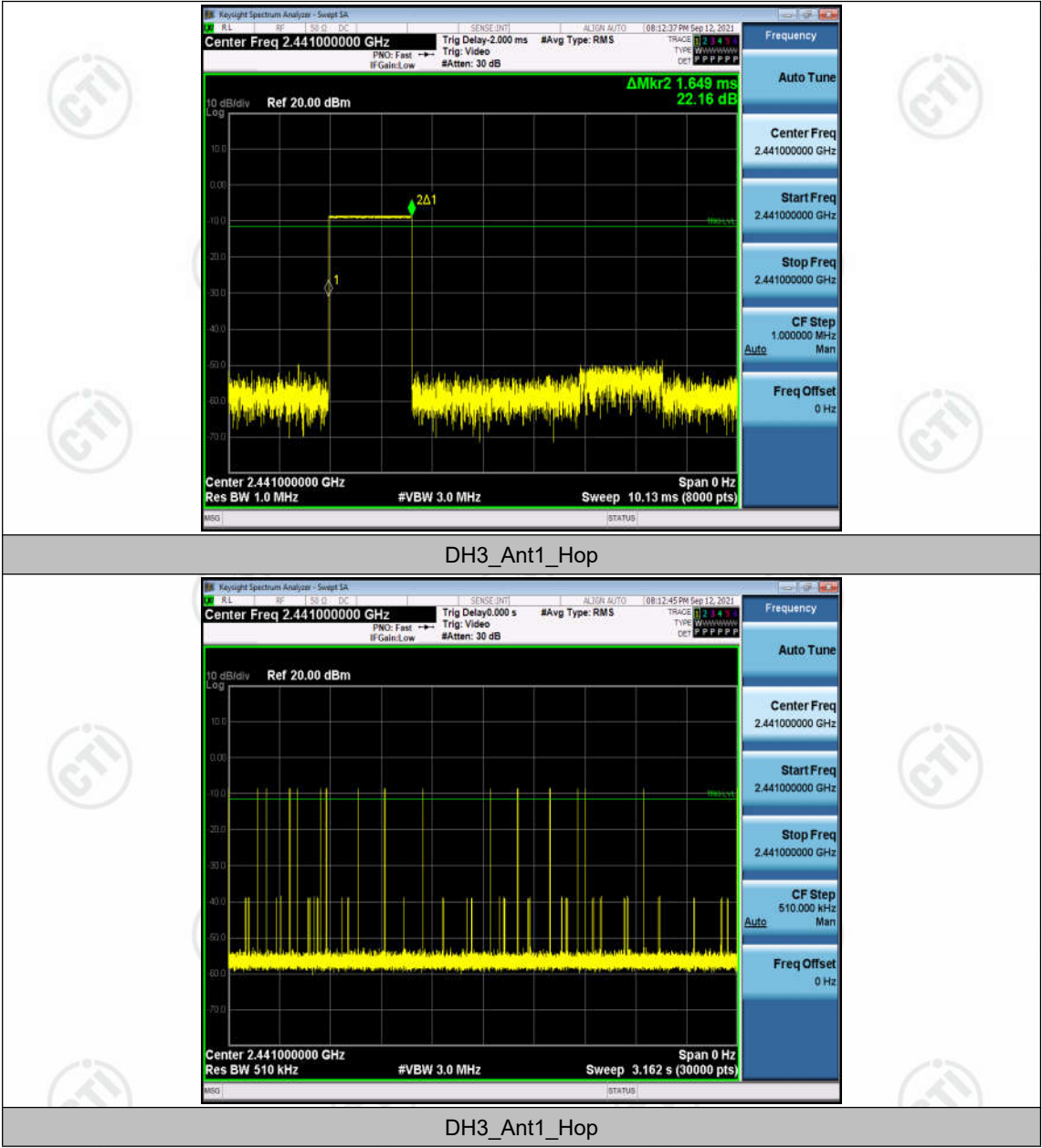
Appendix E: Time of occupancy

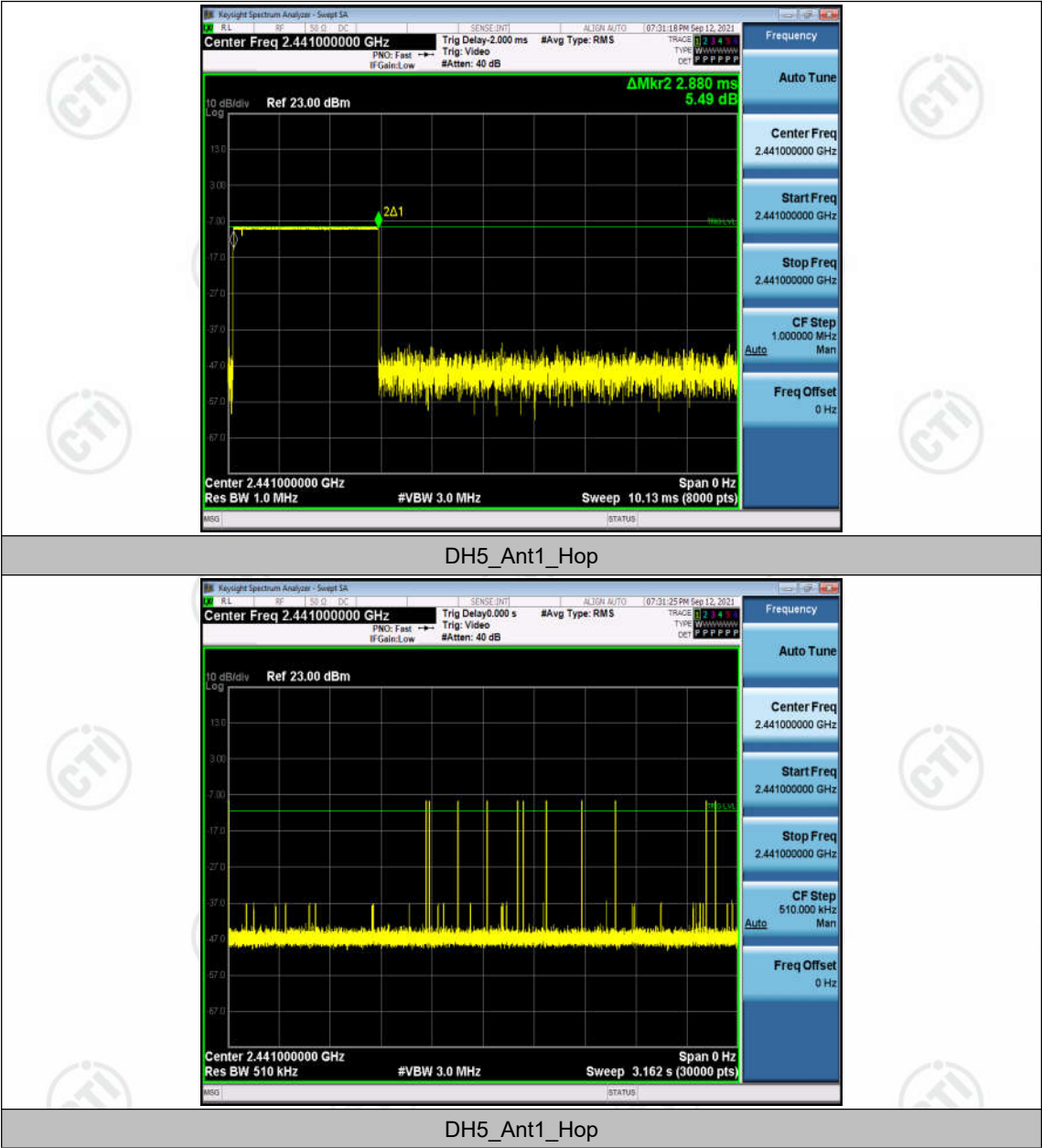
Test Result

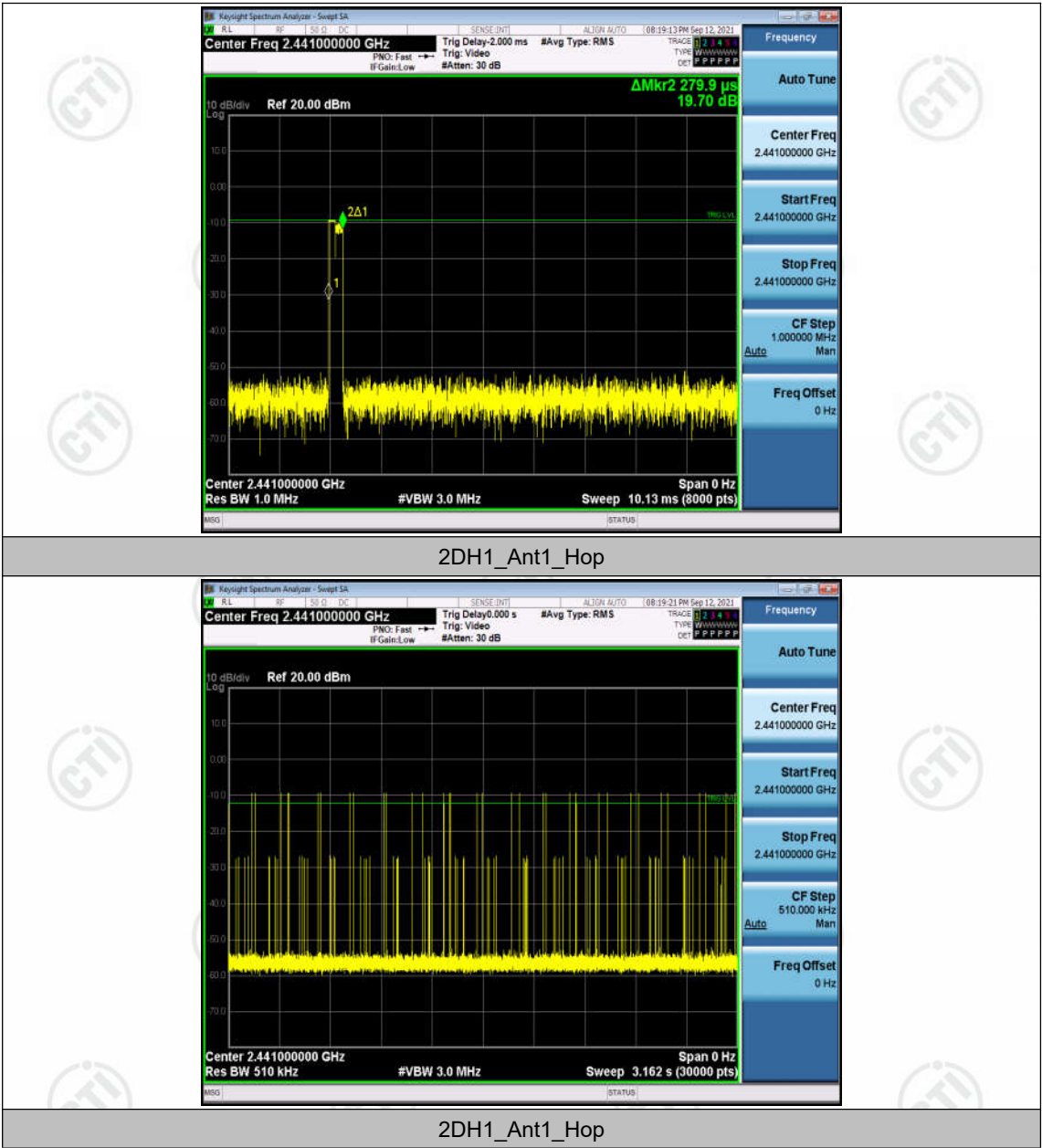
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.39	330	0.127	<=0.4	PASS
DH3	Ant1	Hop	1.65	170	0.28	<=0.4	PASS
DH5	Ant1	Hop	2.88	120	0.346	<=0.4	PASS
2DH1	Ant1	Hop	0.28	330	0.092	<=0.4	PASS
2DH3	Ant1	Hop	0.91	160	0.145	<=0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	<=0.4	PASS
3DH1	Ant1	Hop	0.24	320	0.076	<=0.4	PASS
3DH3	Ant1	Hop	0.66	170	0.112	<=0.4	PASS
3DH5	Ant1	Hop	2.89	90	0.26	<=0.4	PASS

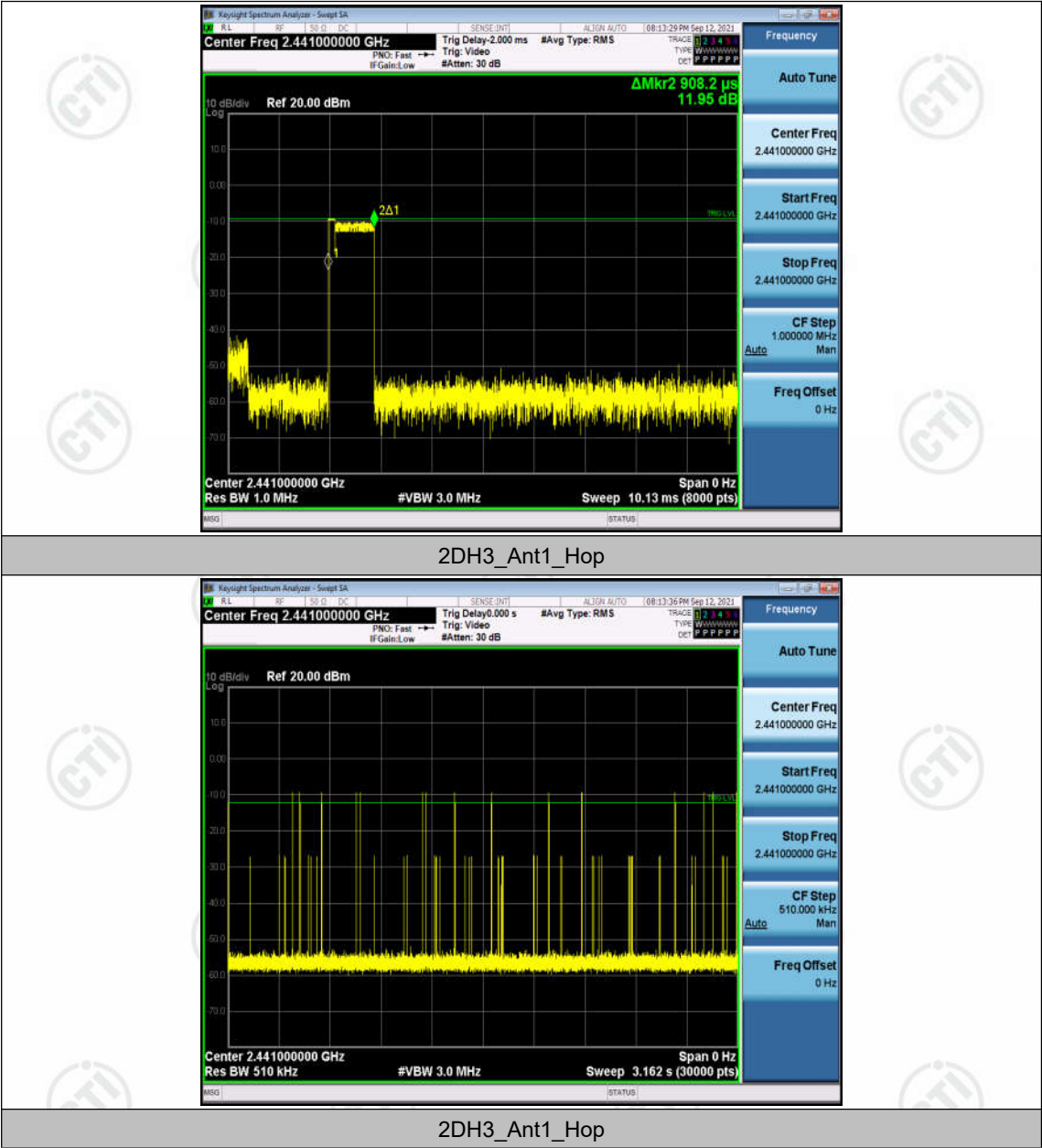
Test Graphs

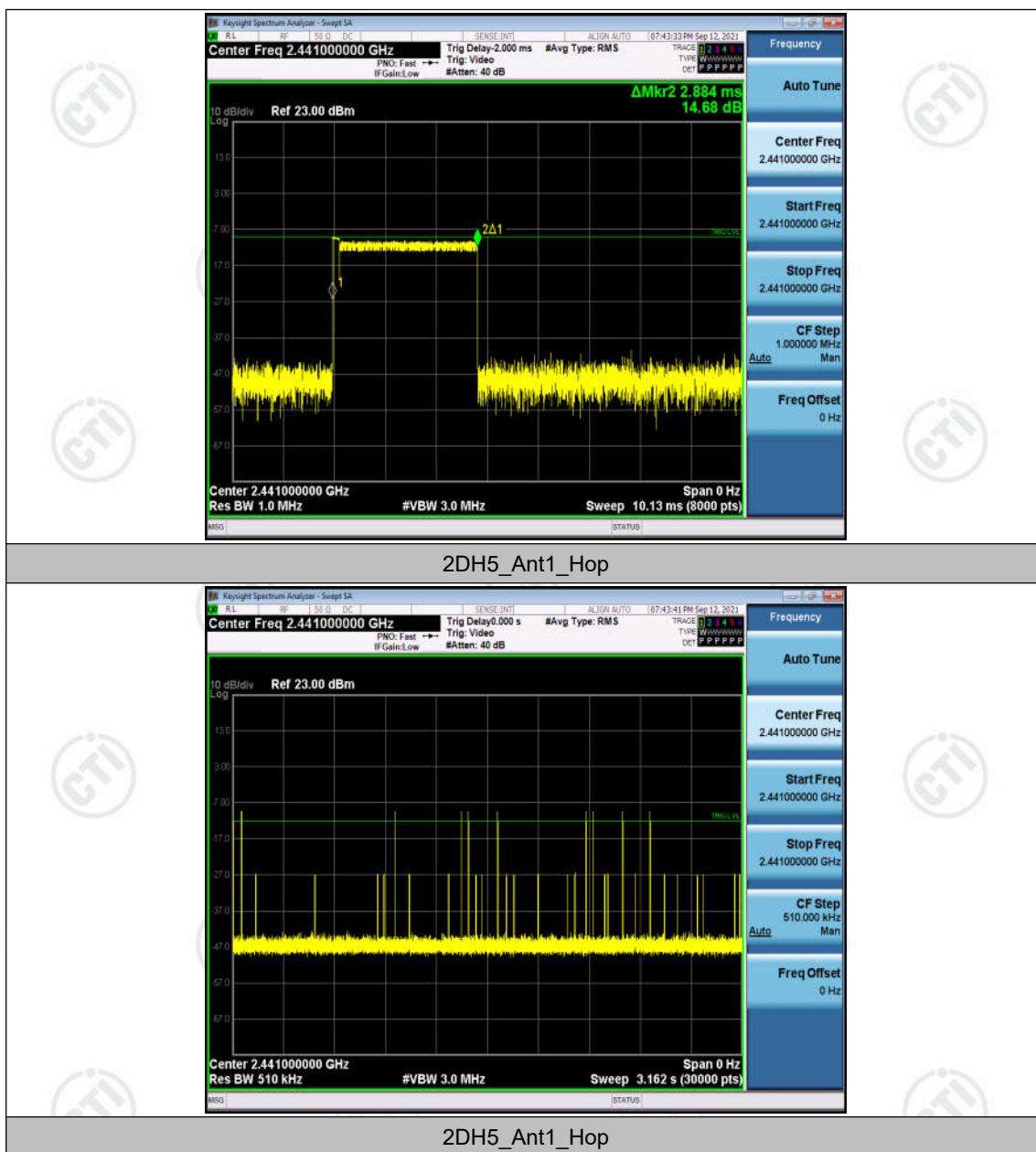


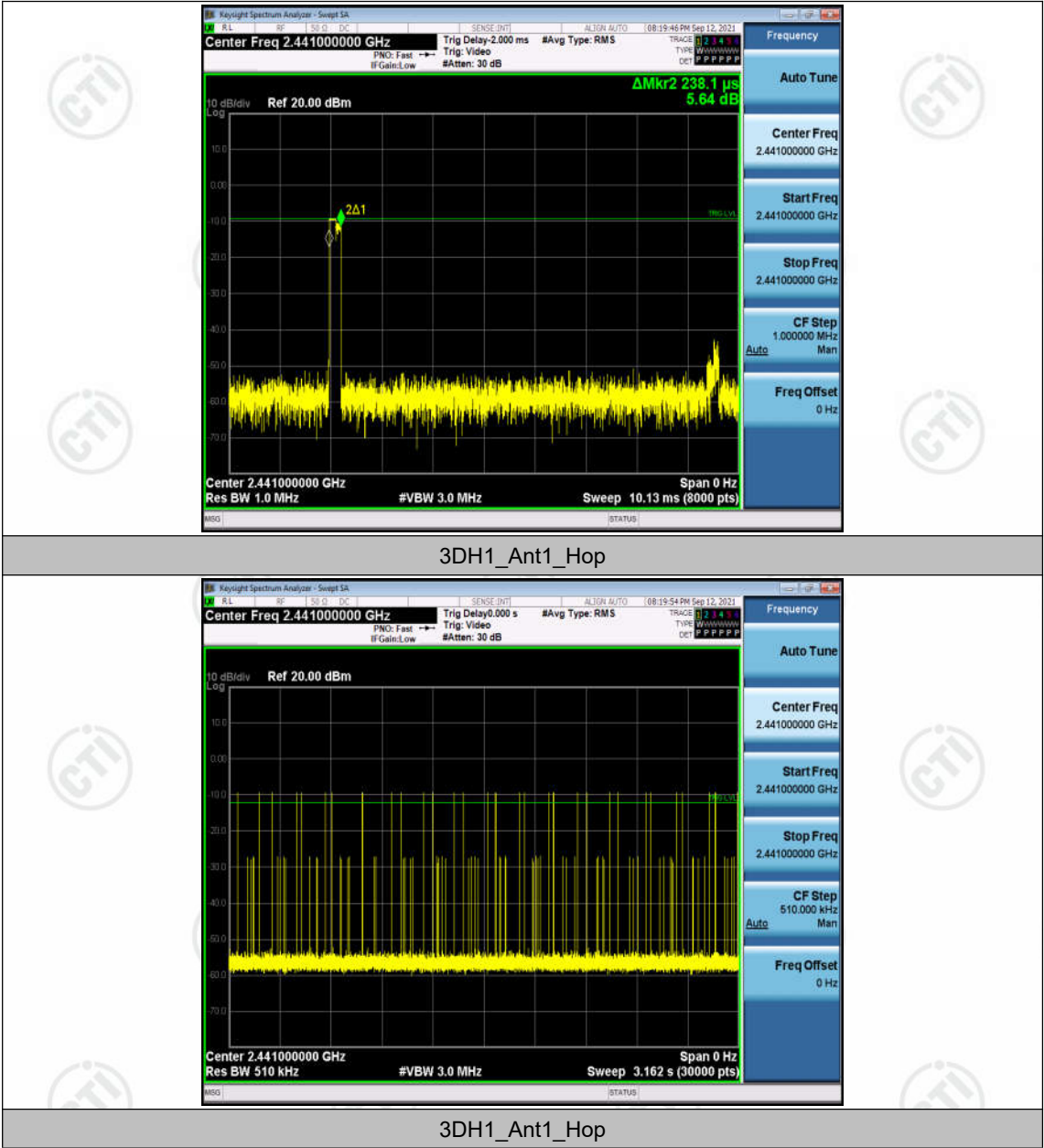


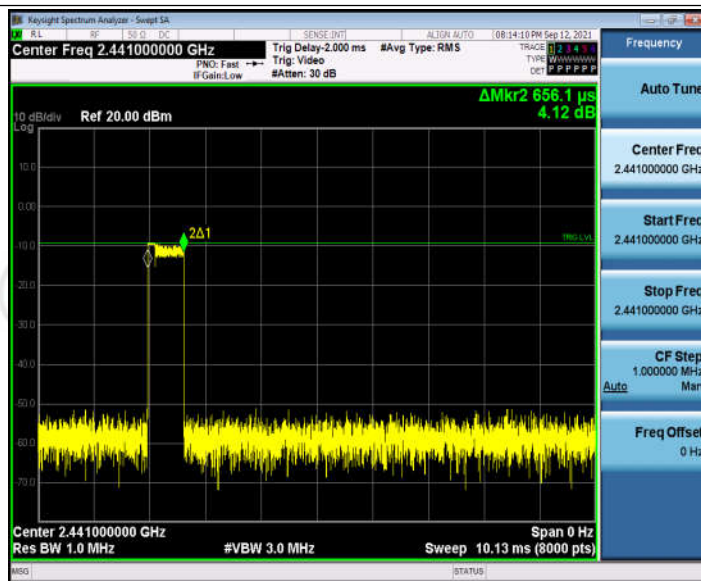




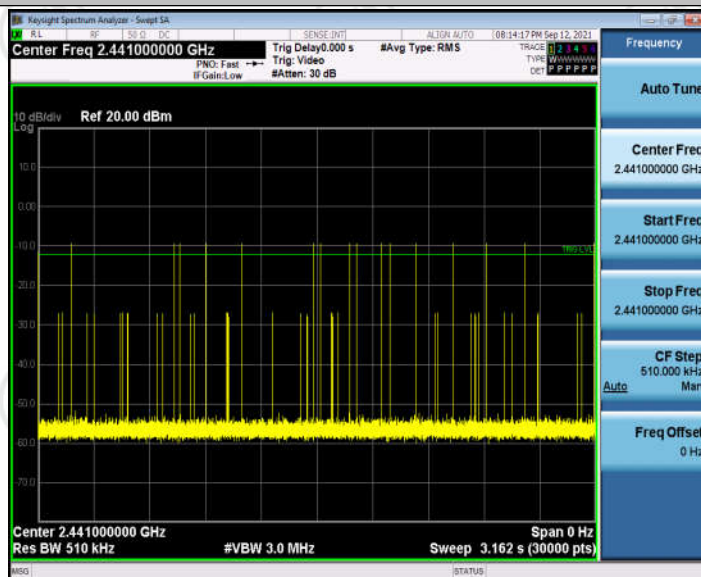




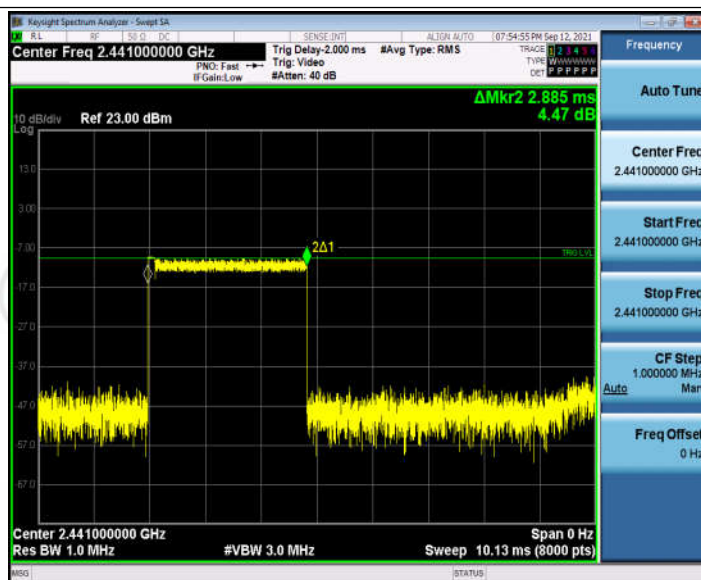




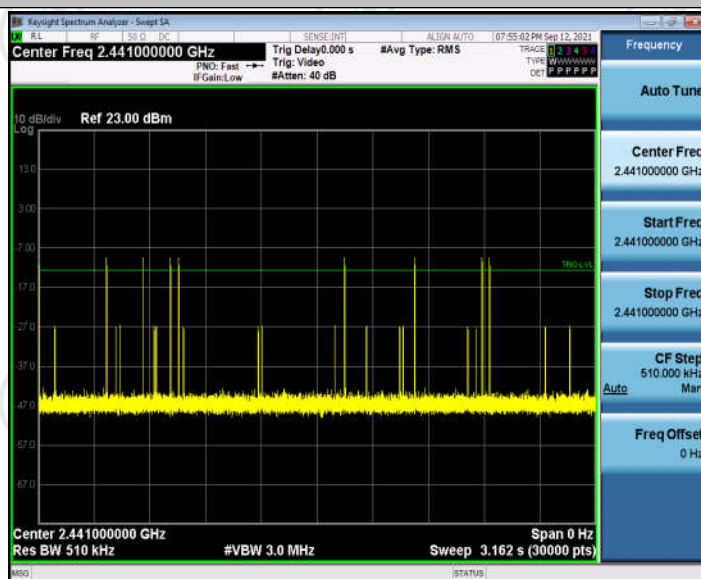
3DH3_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop



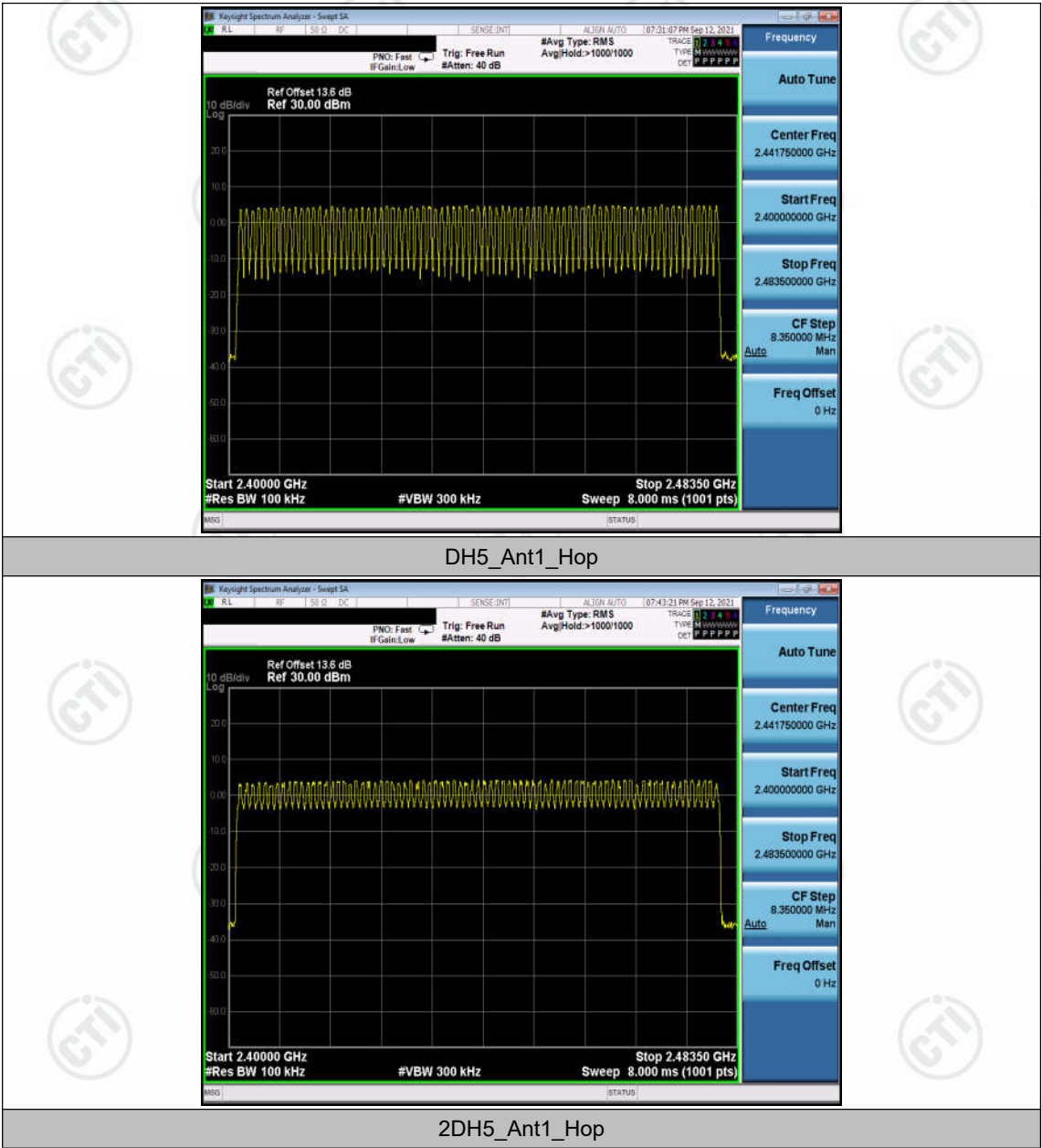
3DH5_Ant1_Hop

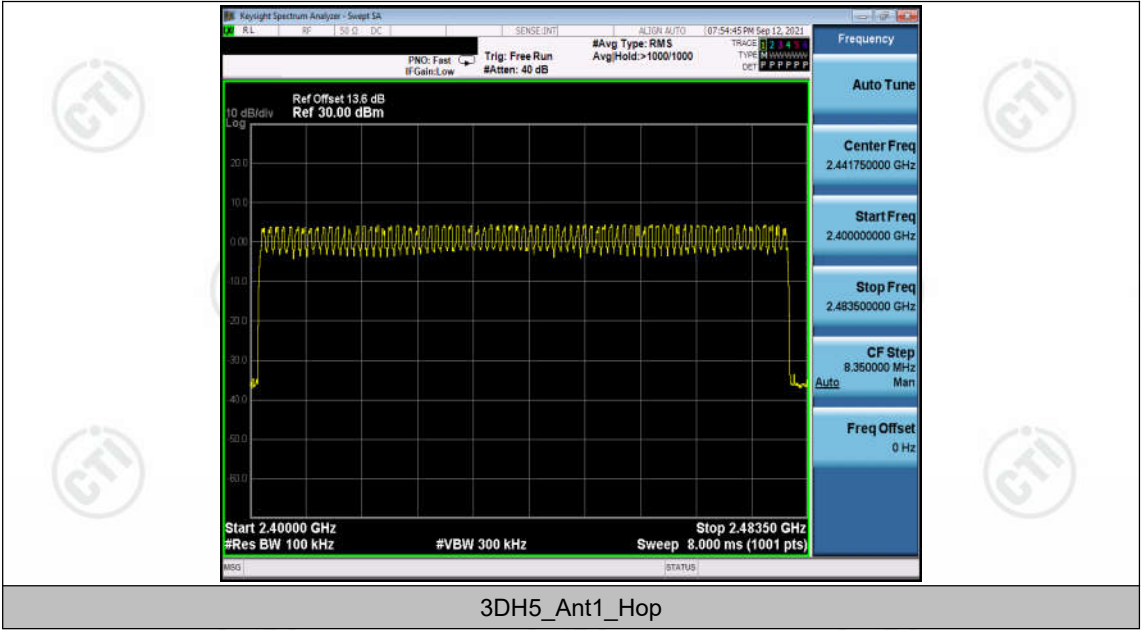
Appendix F: Number of hopping channels

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



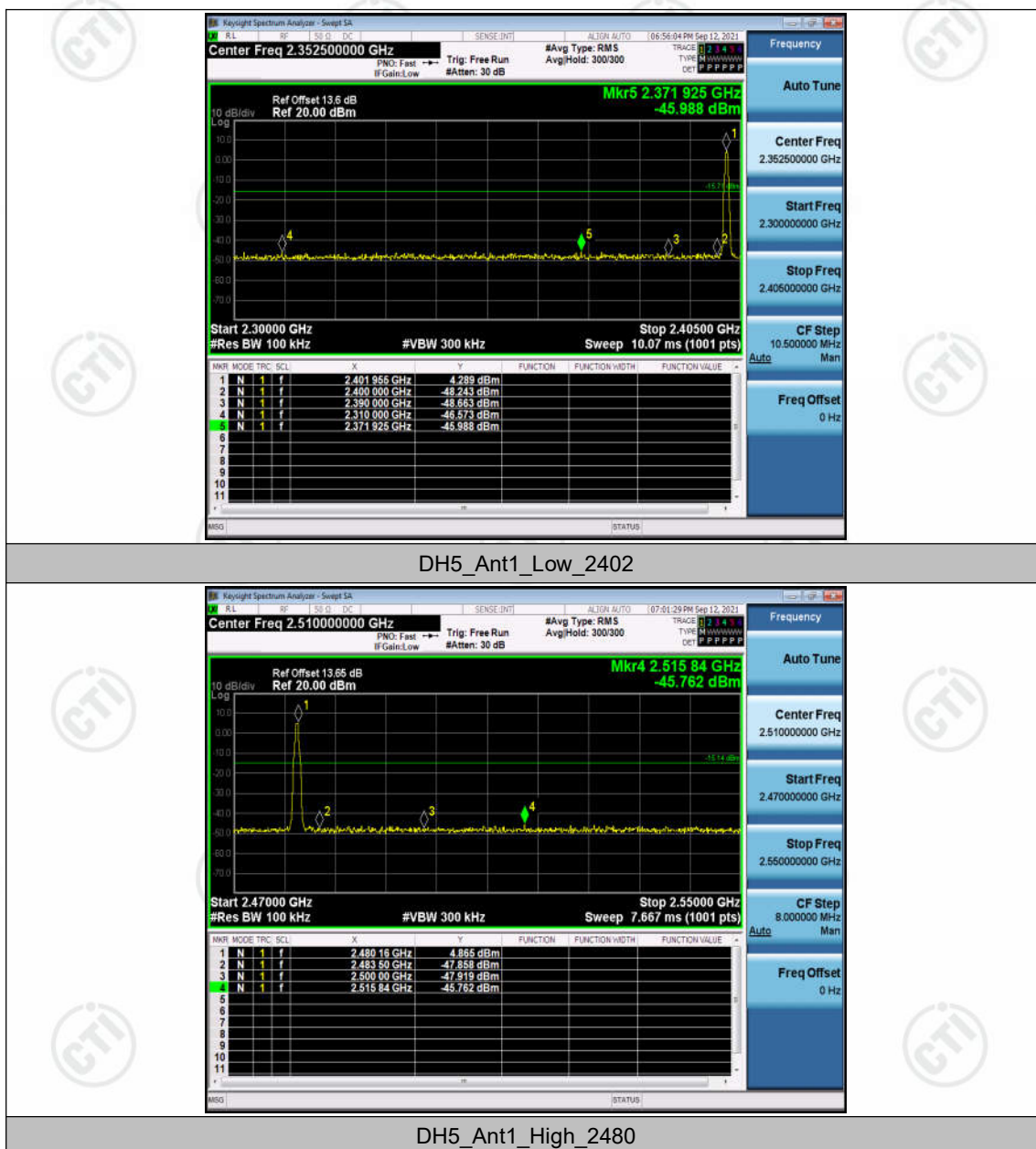


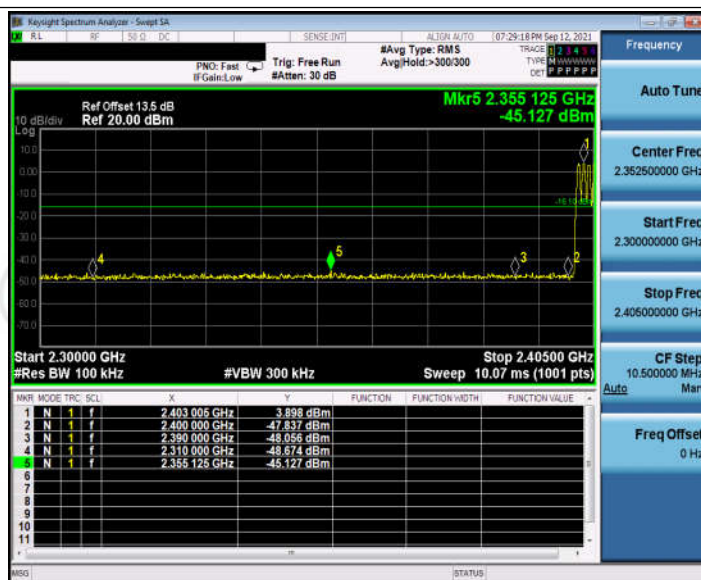
Appendix G: Band edge measurements

Test Result

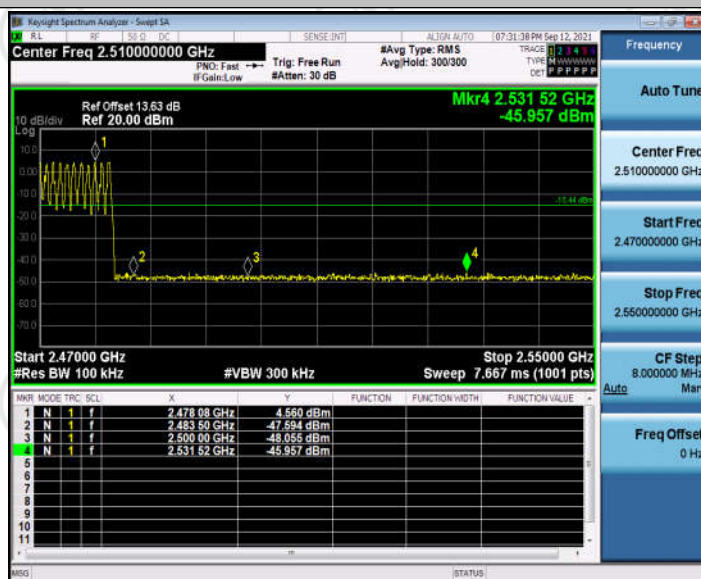
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.29	-45.99	≤ -15.71	PASS
		High	2480	4.87	-45.76	≤ -15.14	PASS
		Low	Hop_2402	3.90	-45.13	≤ -16.1	PASS
		High	Hop_2480	4.56	-45.96	≤ -15.44	PASS
2DH5	Ant1	Low	2402	3.05	-45.72	≤ -16.95	PASS
		High	2480	4.29	-45.69	≤ -15.72	PASS
		Low	Hop_2402	1.07	-44.86	≤ -18.93	PASS
		High	Hop_2480	4.33	-45.43	≤ -15.68	PASS
3DH5	Ant1	Low	2402	3.27	-45.89	≤ -16.74	PASS
		High	2480	4.00	-45.59	≤ -16	PASS
		Low	Hop_2402	3.60	-45.15	≤ -16.4	PASS
		High	Hop_2480	4.36	-44.71	≤ -15.64	PASS

Test Graphs

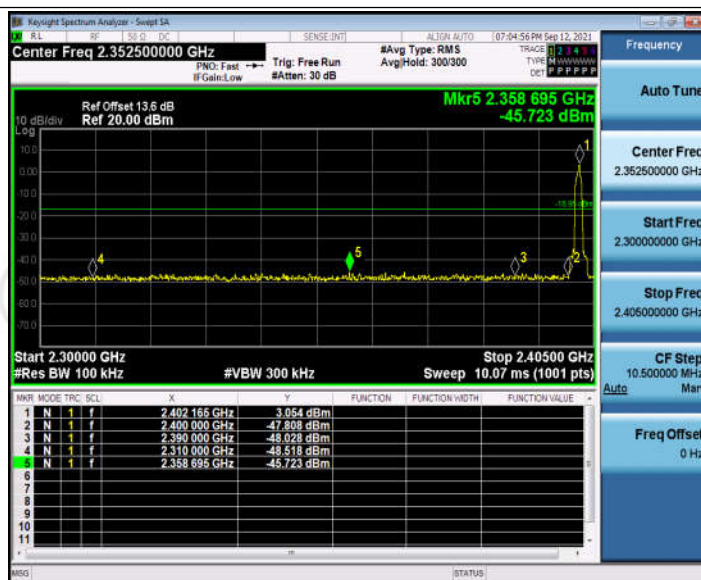




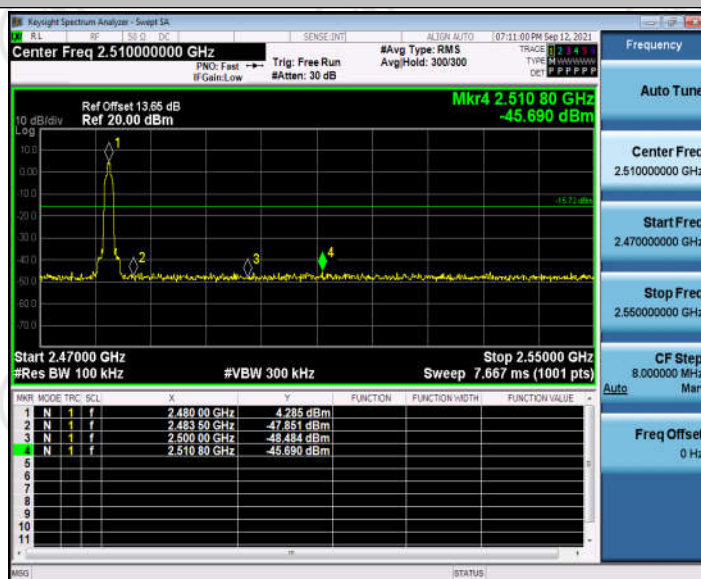
DH5_Ant1_Low_Hop_2402



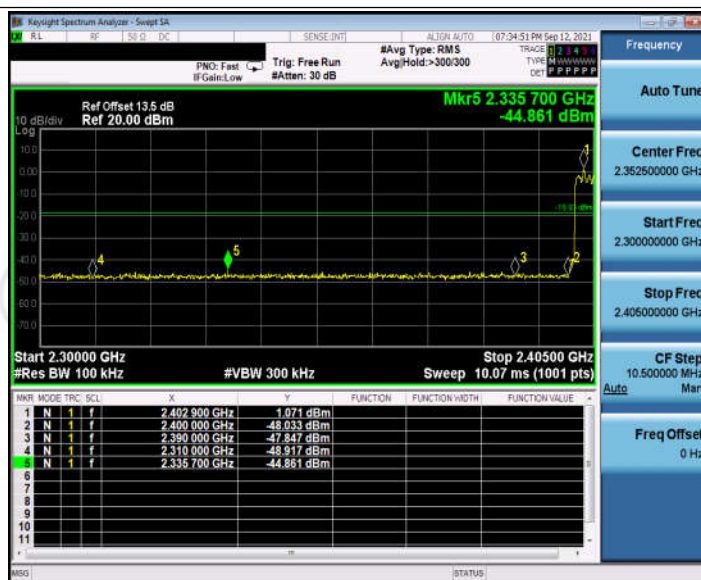
DH5_Ant1_High_Hop_2480



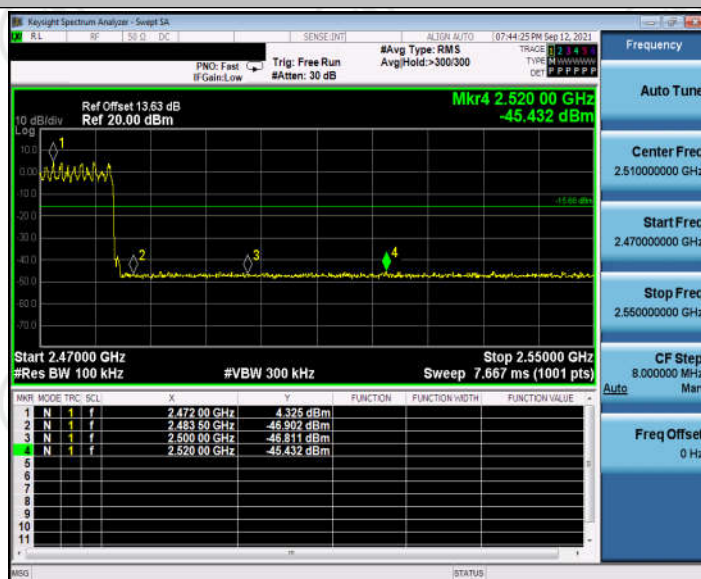
2DHS_Ant1_Low_2402



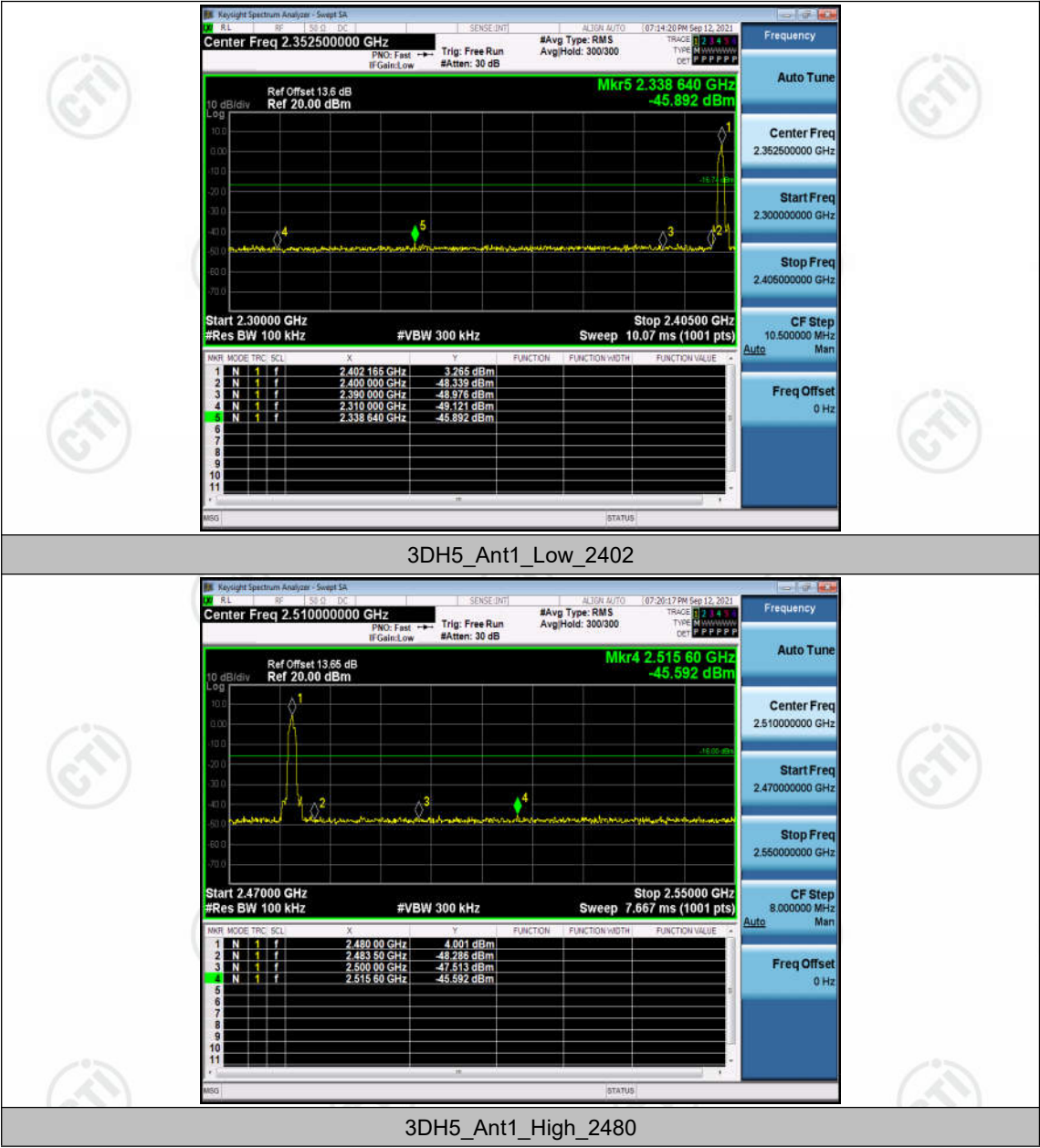
2DHS_Ant1_High_2480

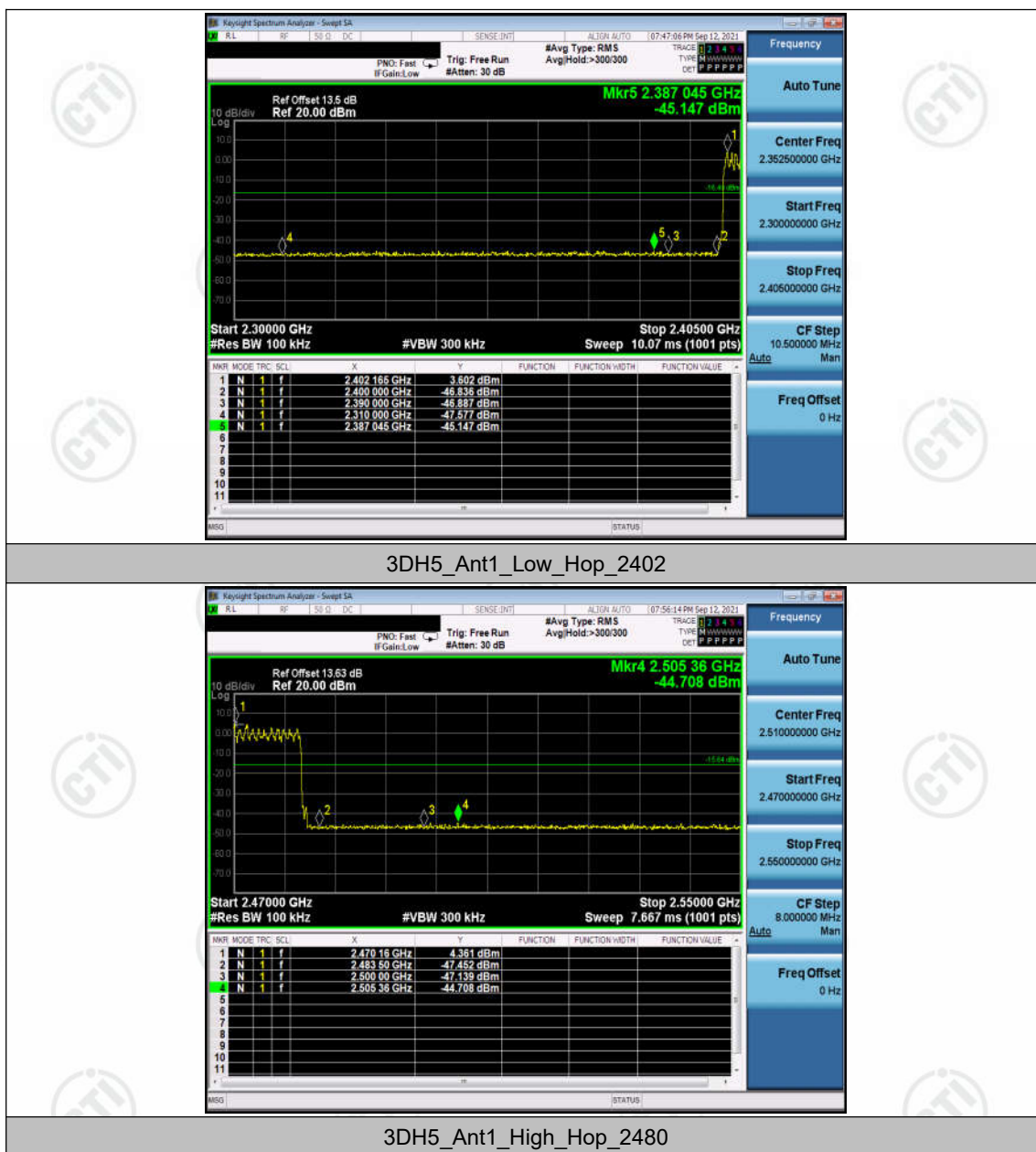


2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



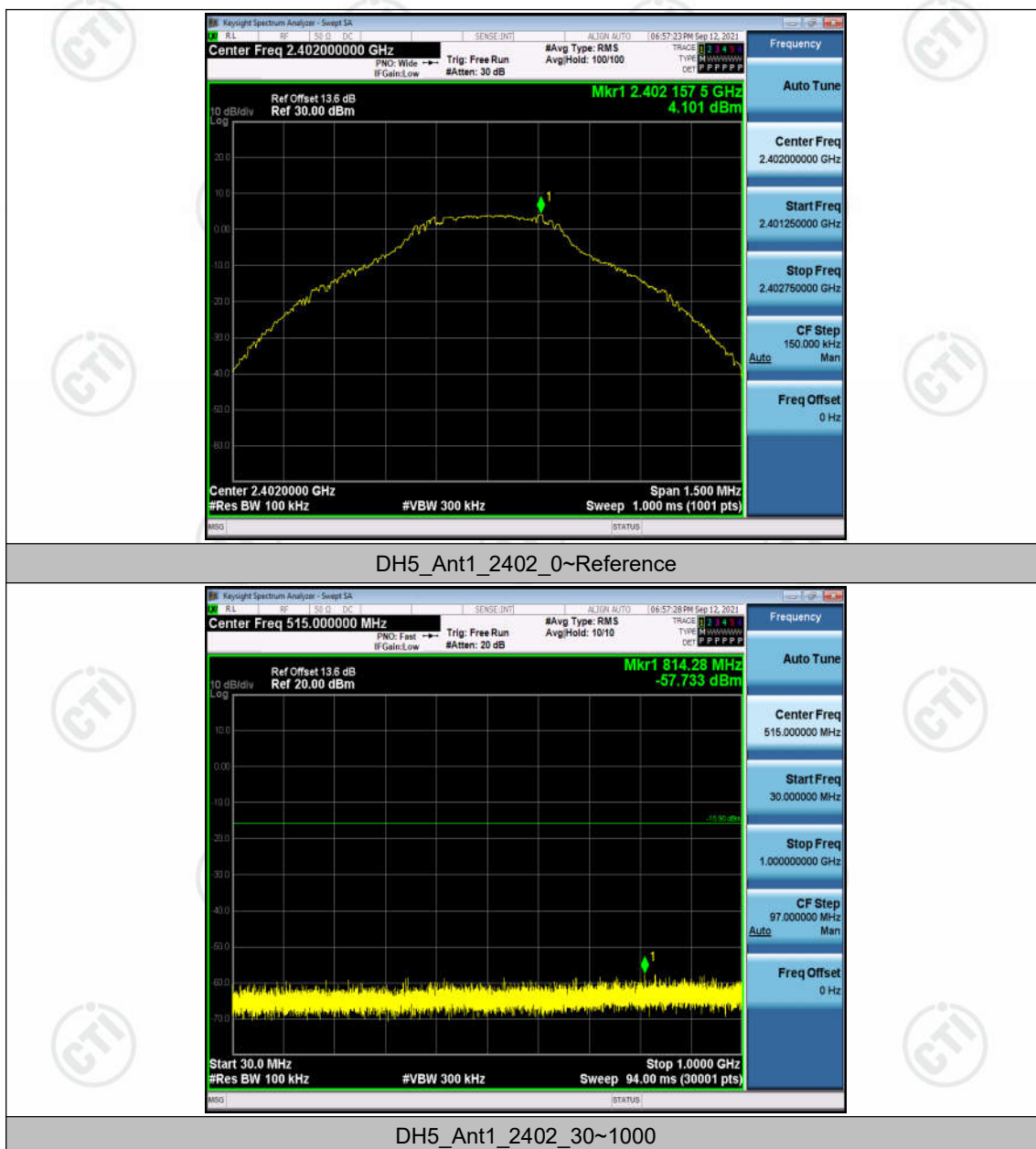


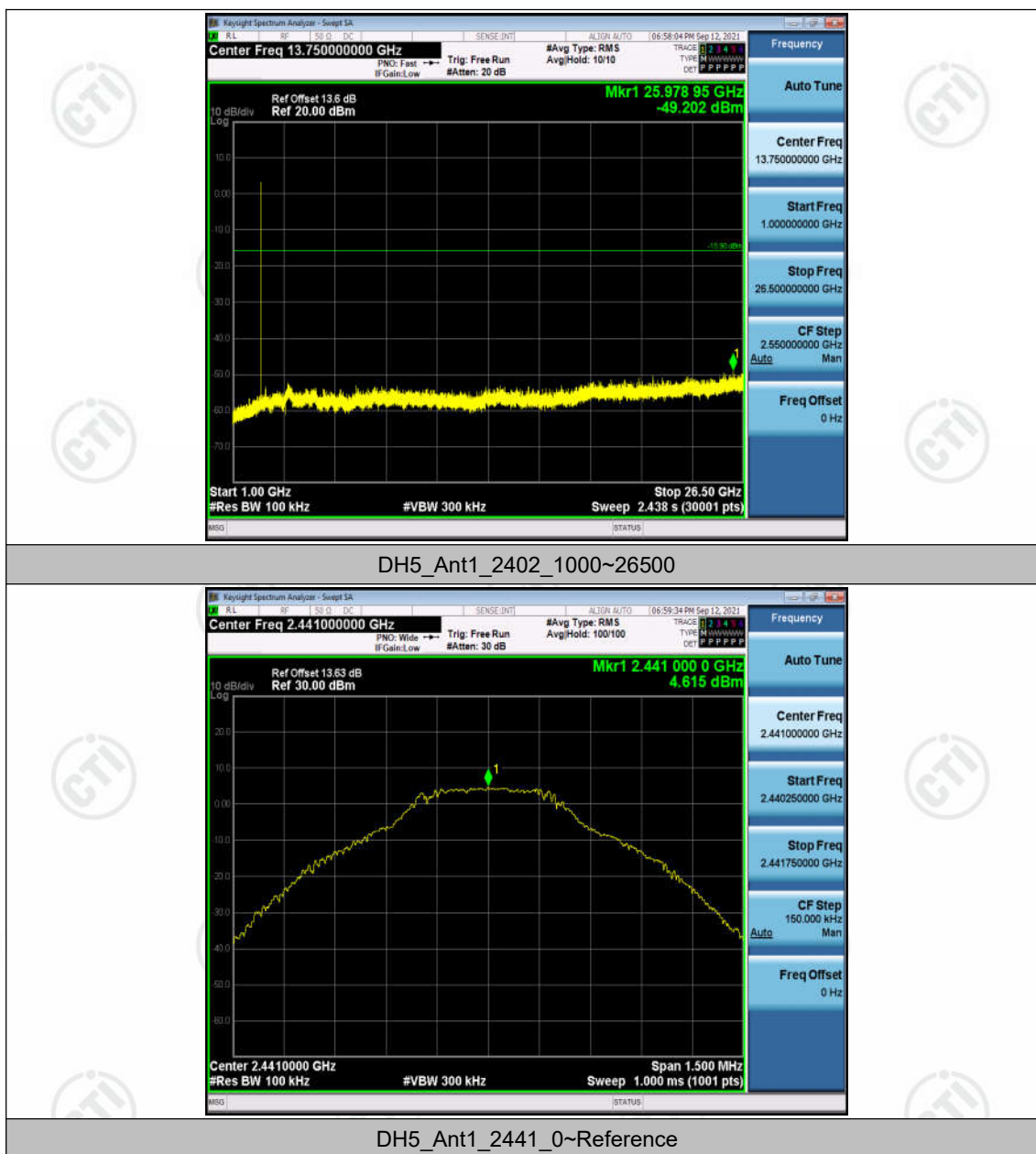
Appendix H: Conducted Spurious Emission

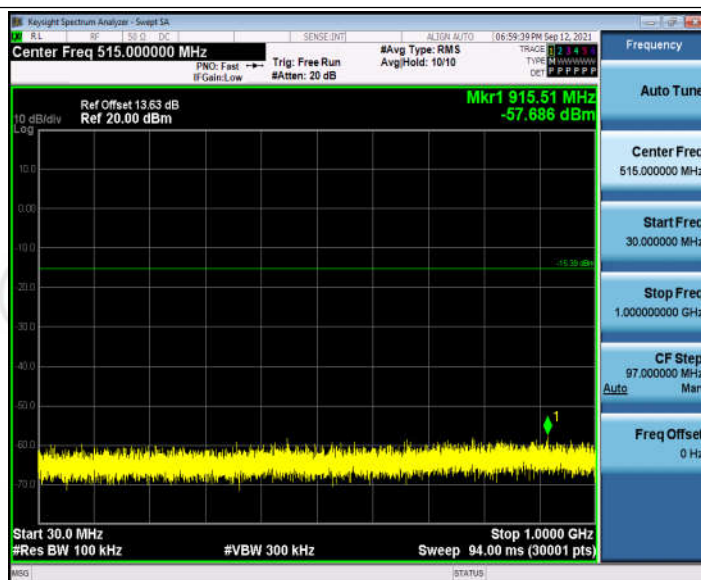
Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.10	4.10	---	PASS
			30~1000	30~1000	-57.733	<=-15.899	PASS
			1000~26500	1000~26500	-49.202	<=-15.899	PASS
		2441	Reference	4.62	4.62	---	PASS
			30~1000	30~1000	-57.686	<=-15.385	PASS
			1000~26500	1000~26500	-49.455	<=-15.385	PASS
		2480	Reference	4.62	4.62	---	PASS
			30~1000	30~1000	-57.316	<=-15.378	PASS
			1000~26500	1000~26500	-49.413	<=-15.378	PASS
2DH5	Ant1	2402	Reference	3.25	3.25	---	PASS
			30~1000	30~1000	-57.73	<=-16.75	PASS
			1000~26500	1000~26500	-49.754	<=-16.75	PASS
		2441	Reference	4.11	4.11	---	PASS
			30~1000	30~1000	-58.241	<=-15.891	PASS
			1000~26500	1000~26500	-49.019	<=-15.891	PASS
		2480	Reference	3.99	3.99	---	PASS
			30~1000	30~1000	-57.921	<=-16.007	PASS
			1000~26500	1000~26500	-47.954	<=-16.007	PASS
3DH5	Ant1	2402	Reference	3.43	3.43	---	PASS
			30~1000	30~1000	-57.887	<=-16.567	PASS
			1000~26500	1000~26500	-49.051	<=-16.567	PASS
		2441	Reference	4.22	4.22	---	PASS
			30~1000	30~1000	-56.686	<=-15.776	PASS
			1000~26500	1000~26500	-49.825	<=-15.776	PASS
		2480	Reference	4.22	4.22	---	PASS
			30~1000	30~1000	-57.714	<=-15.778	PASS
			1000~26500	1000~26500	-48.963	<=-15.778	PASS

Test Graphs



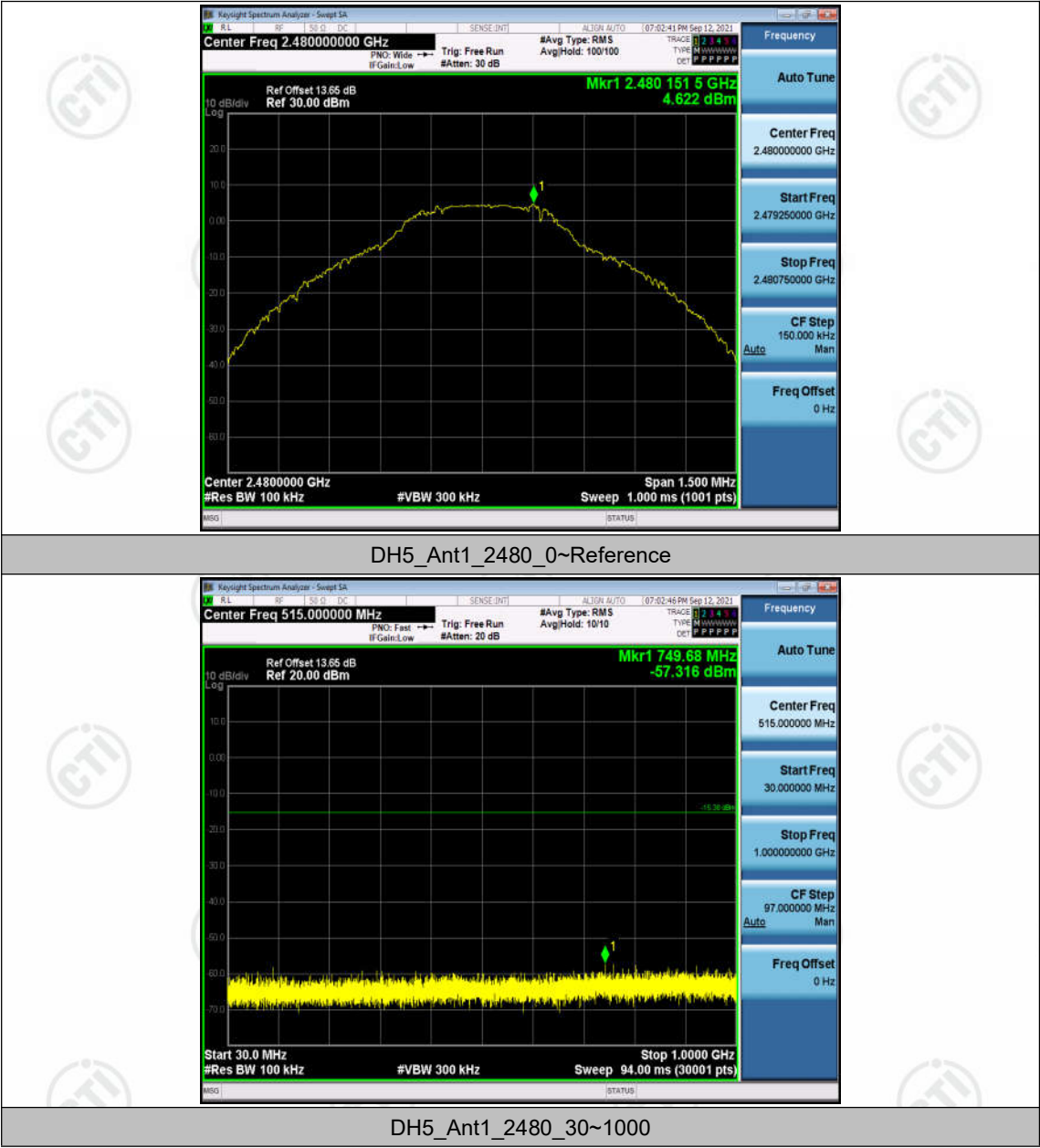




DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500

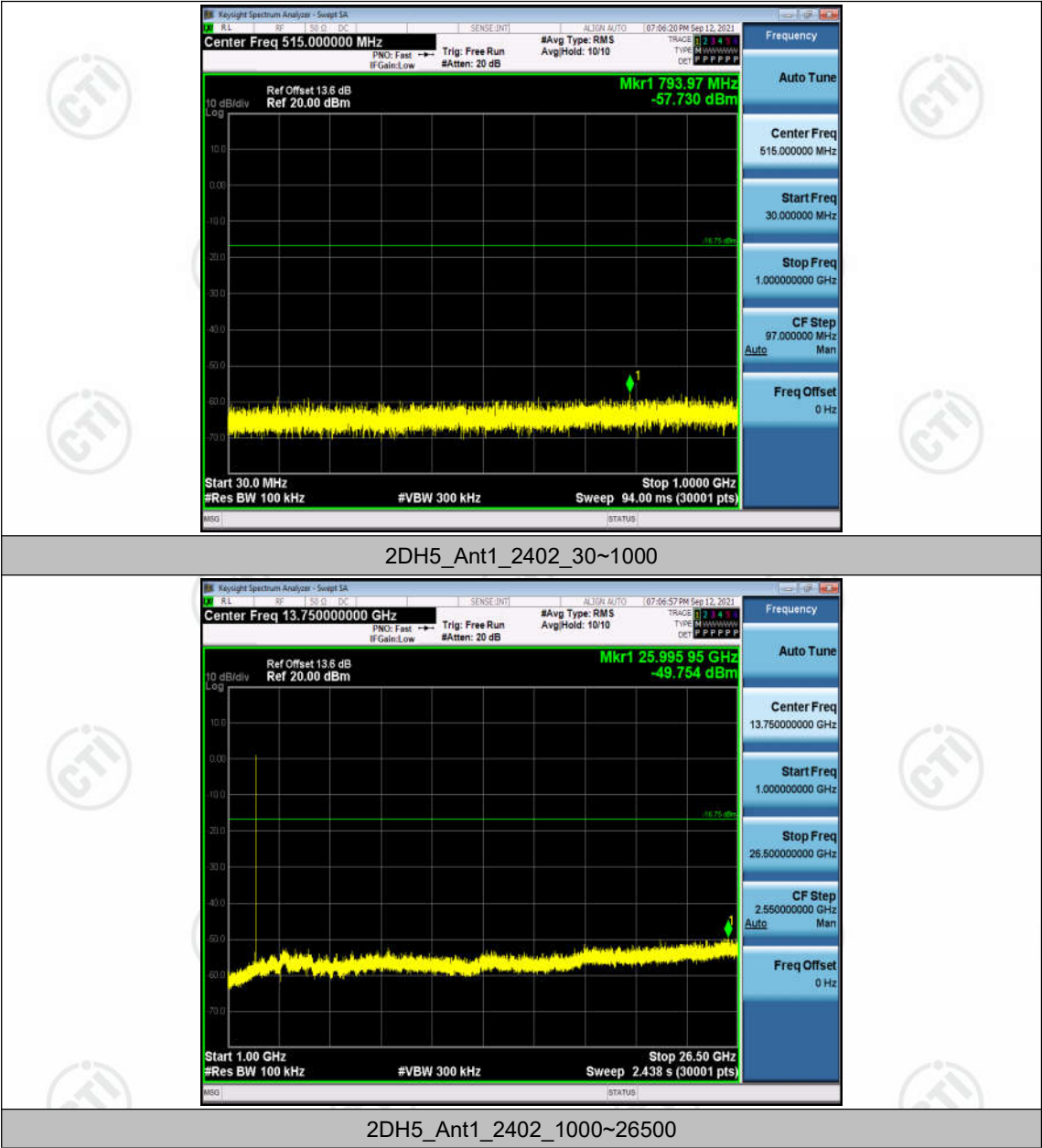


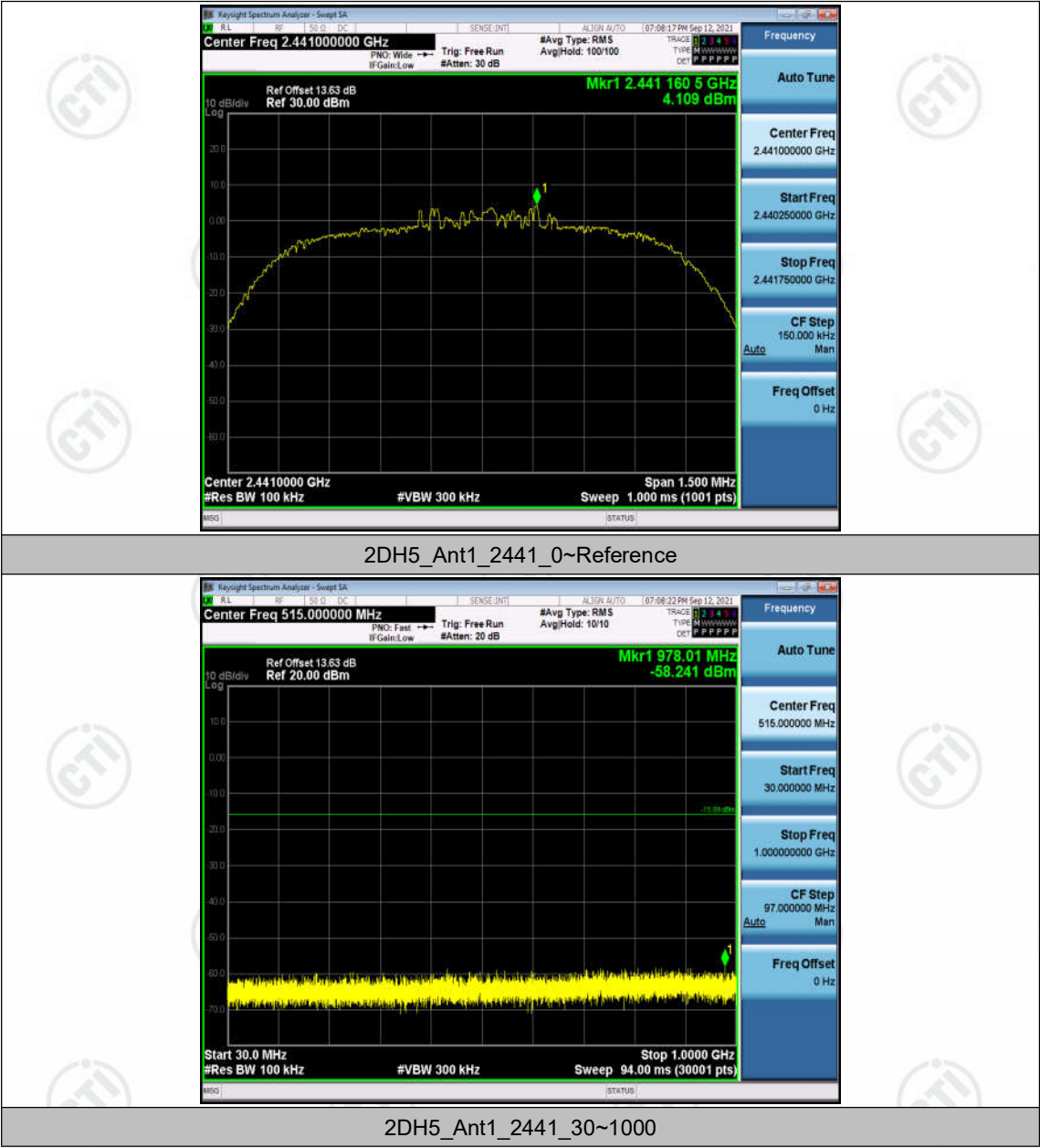


DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



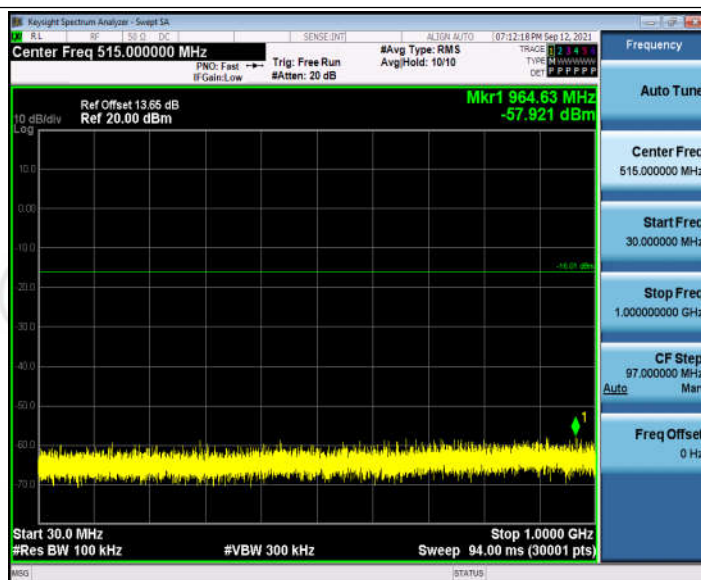




2DH5_Ant1_2441_1000~26500



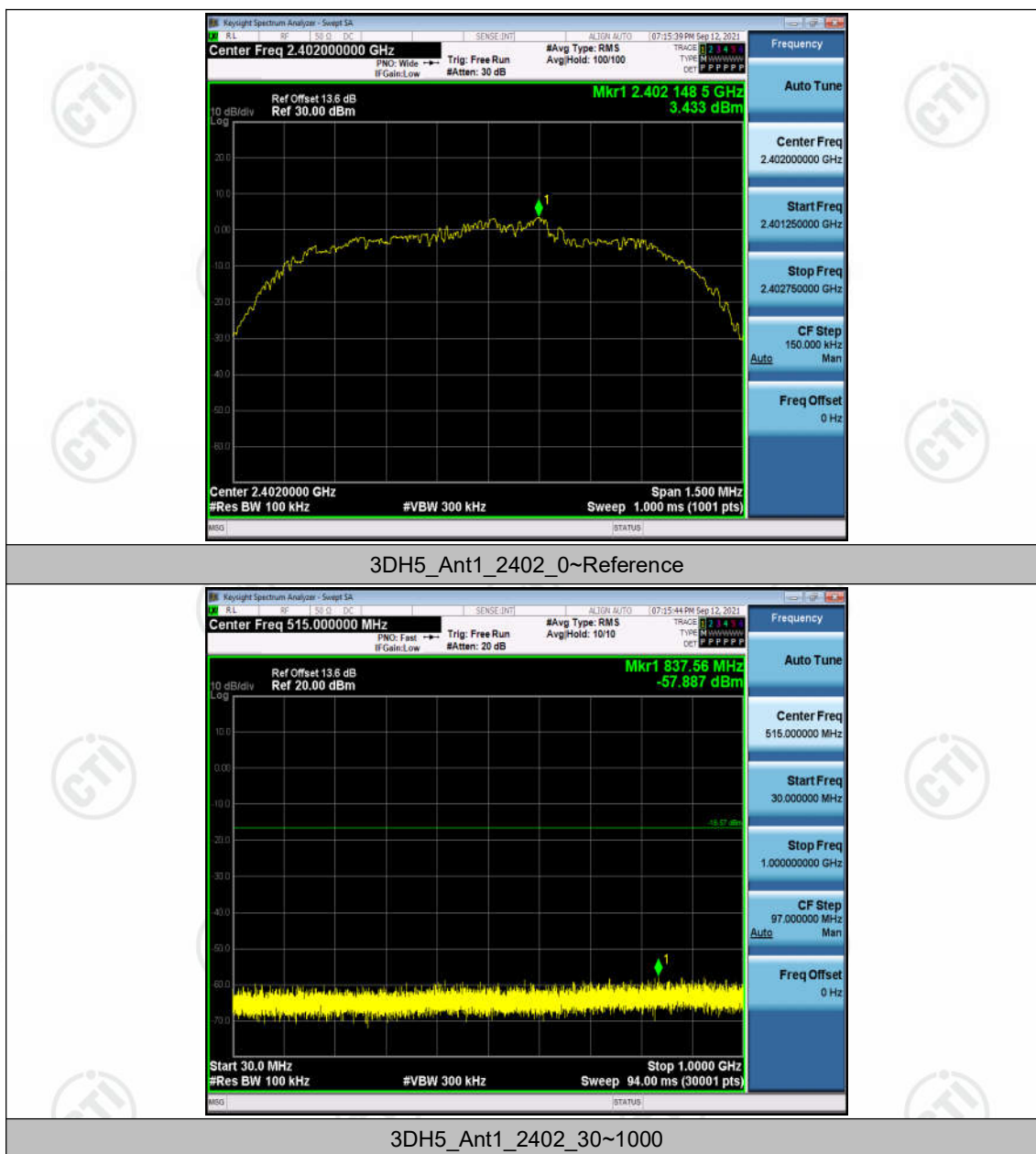
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

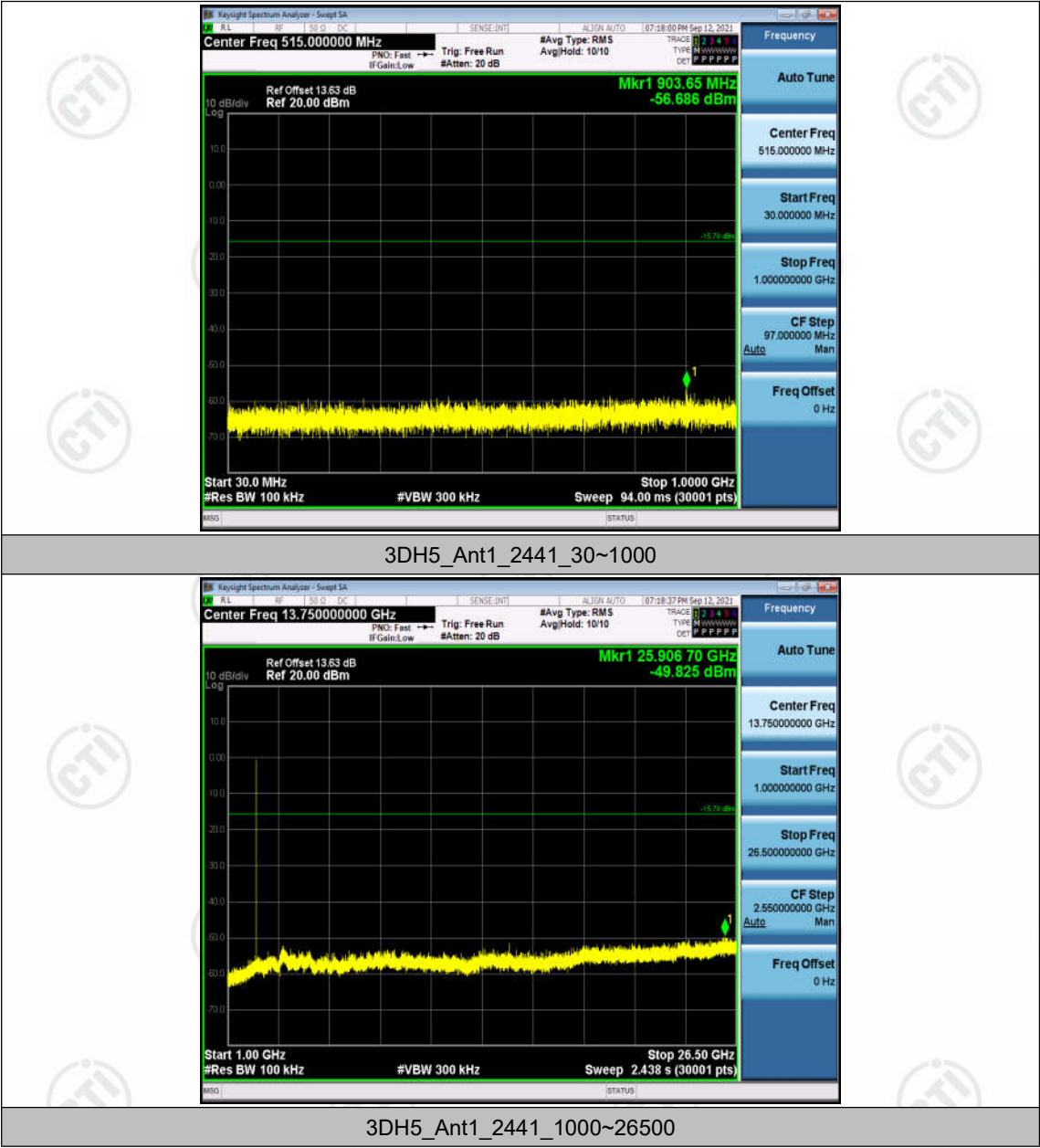


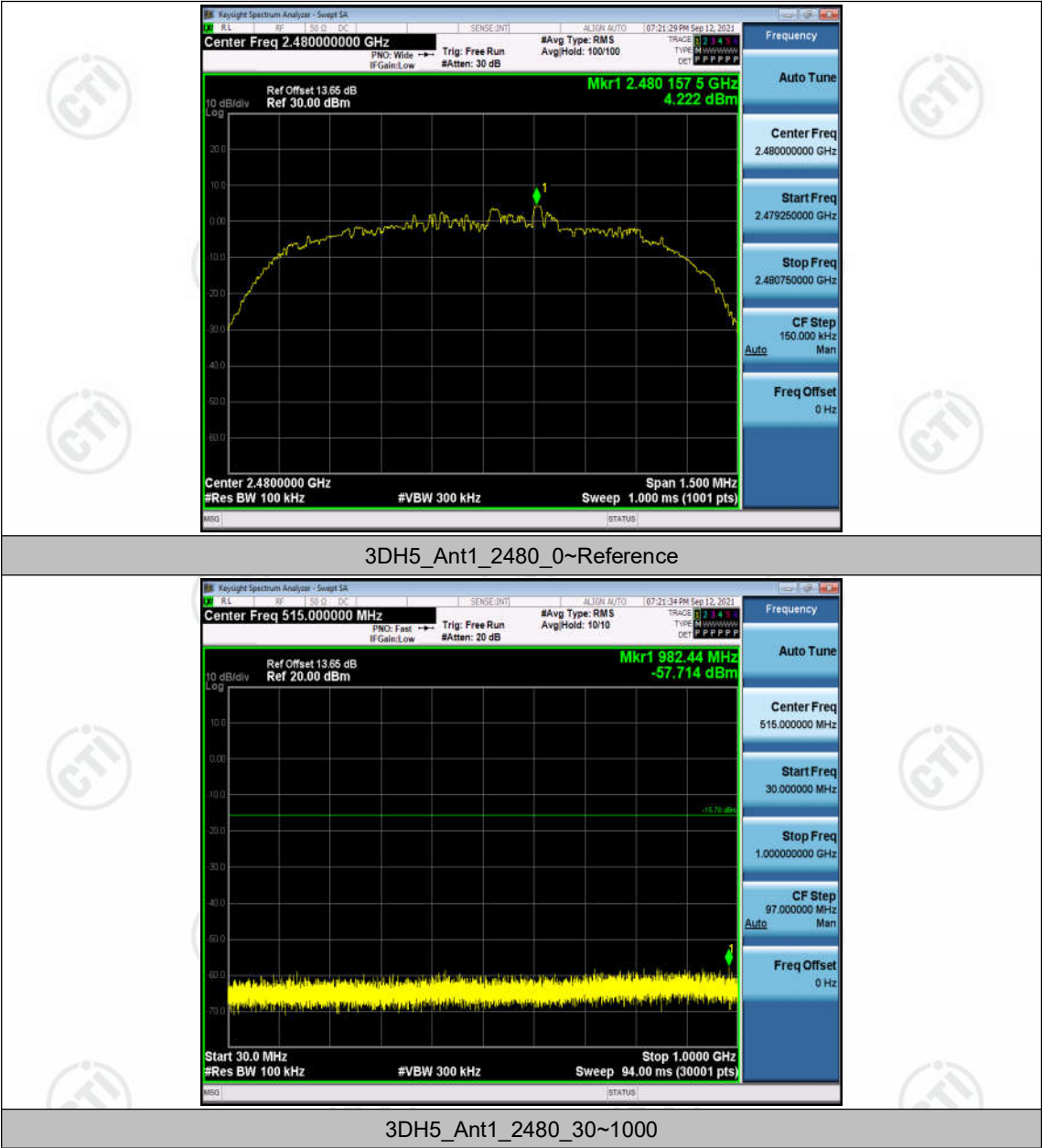


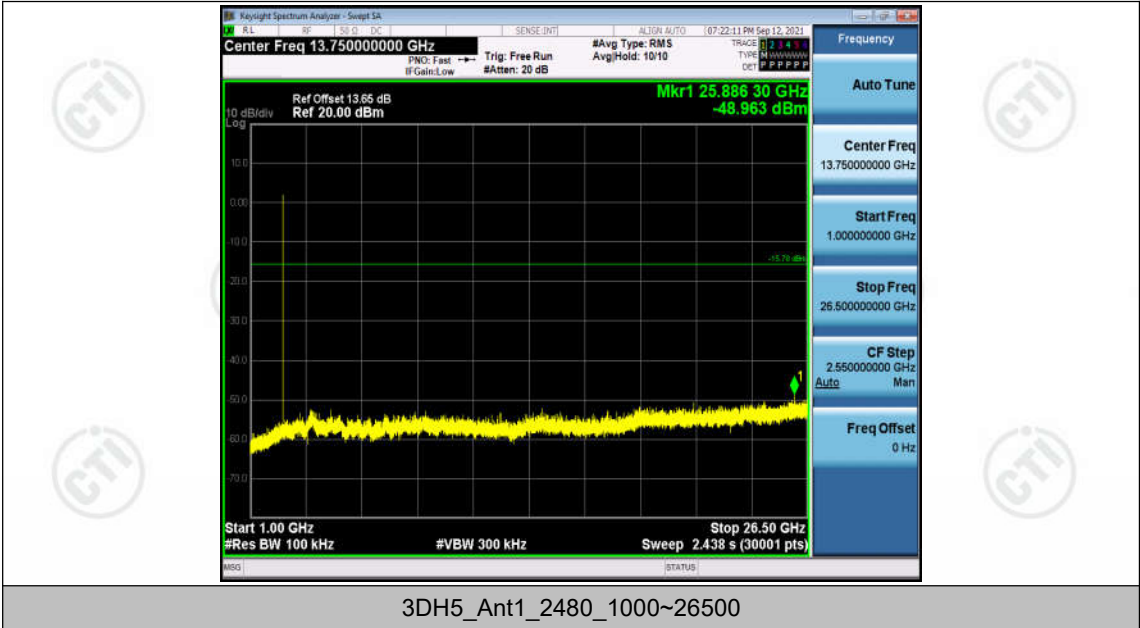
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference





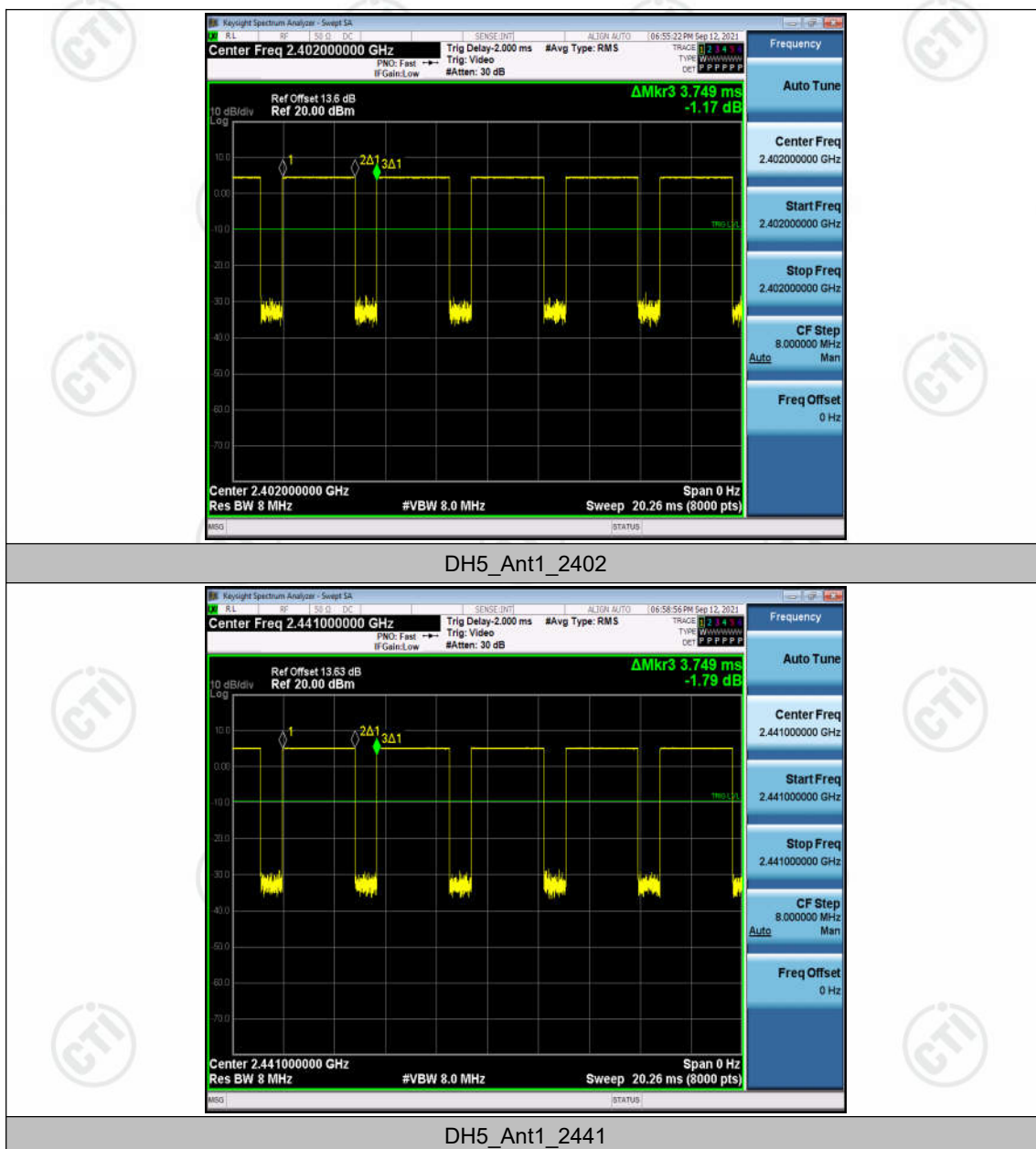


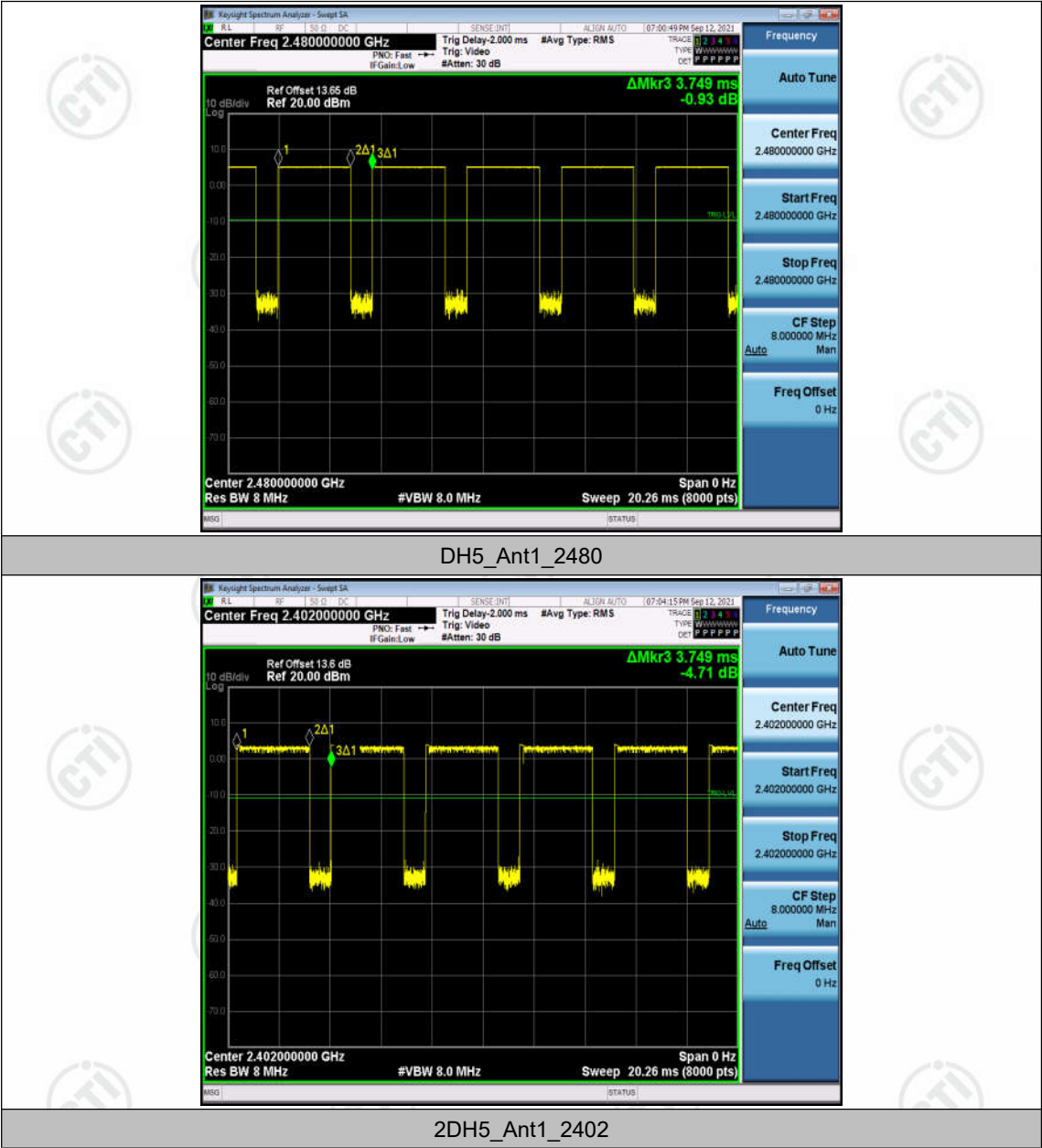
Appendix I: Duty Cycle

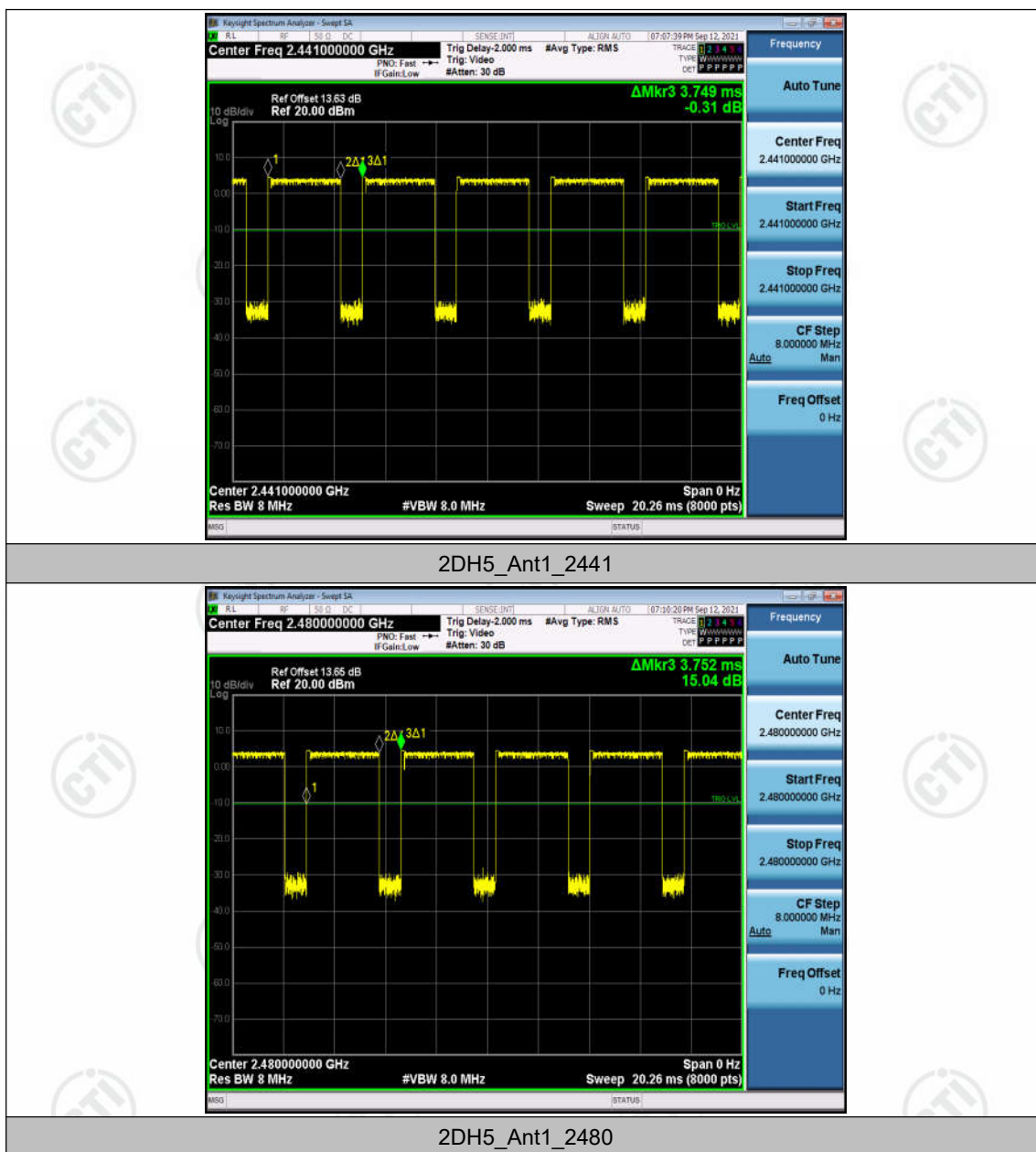
Test Result

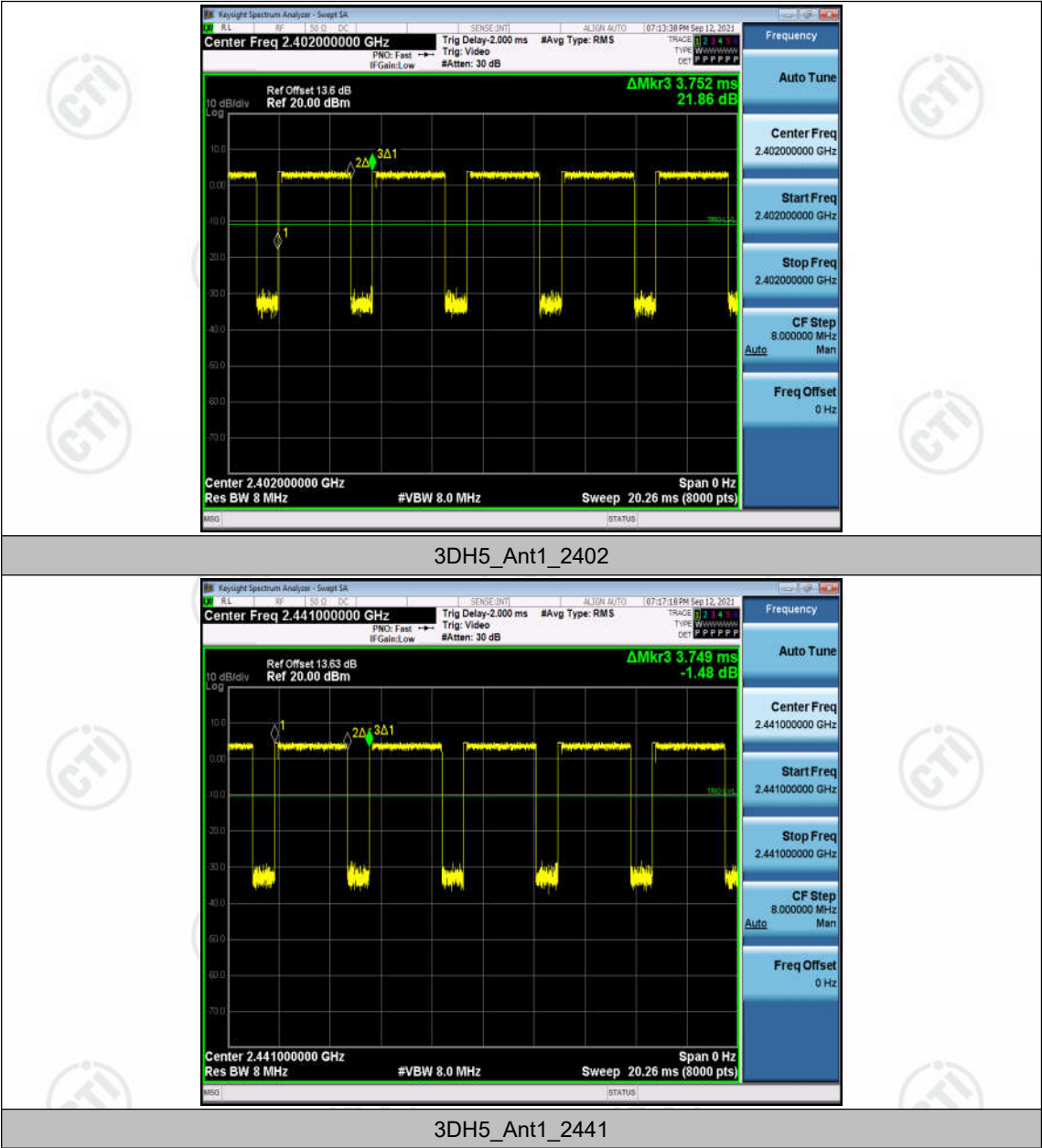
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	76.76	---	PASS
		2441	2.88	3.75	76.76	---	PASS
		2480	2.88	3.75	76.76	---	PASS
2DH5	Ant1	2402	2.88	3.75	76.82	---	PASS
		2441	2.88	3.75	76.82	---	PASS
		2480	2.88	3.75	76.84	---	PASS
3DH5	Ant1	2402	2.89	3.75	76.91	---	PASS
		2441	2.88	3.75	76.89	---	PASS
		2480	2.88	3.75	76.89	---	PASS

Test Graphs











*** End of Report ***