

Appendix: Bluetooth Classic

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Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.891	2401.562	2402.453	---	PASS
		2441	0.891	2440.562	2441.453	---	PASS
		2480	0.891	2479.562	2480.453	---	PASS
2DH5	Ant1	2402	1.323	2401.358	2402.681	---	PASS
		2441	1.323	2440.358	2441.681	---	PASS
		2480	1.317	2479.361	2480.678	---	PASS
3DH5	Ant1	2402	1.269	2401.376	2402.645	---	PASS
		2441	1.341	2440.349	2441.690	---	PASS
		2480	1.272	2479.379	2480.651	---	PASS

Test Graphs

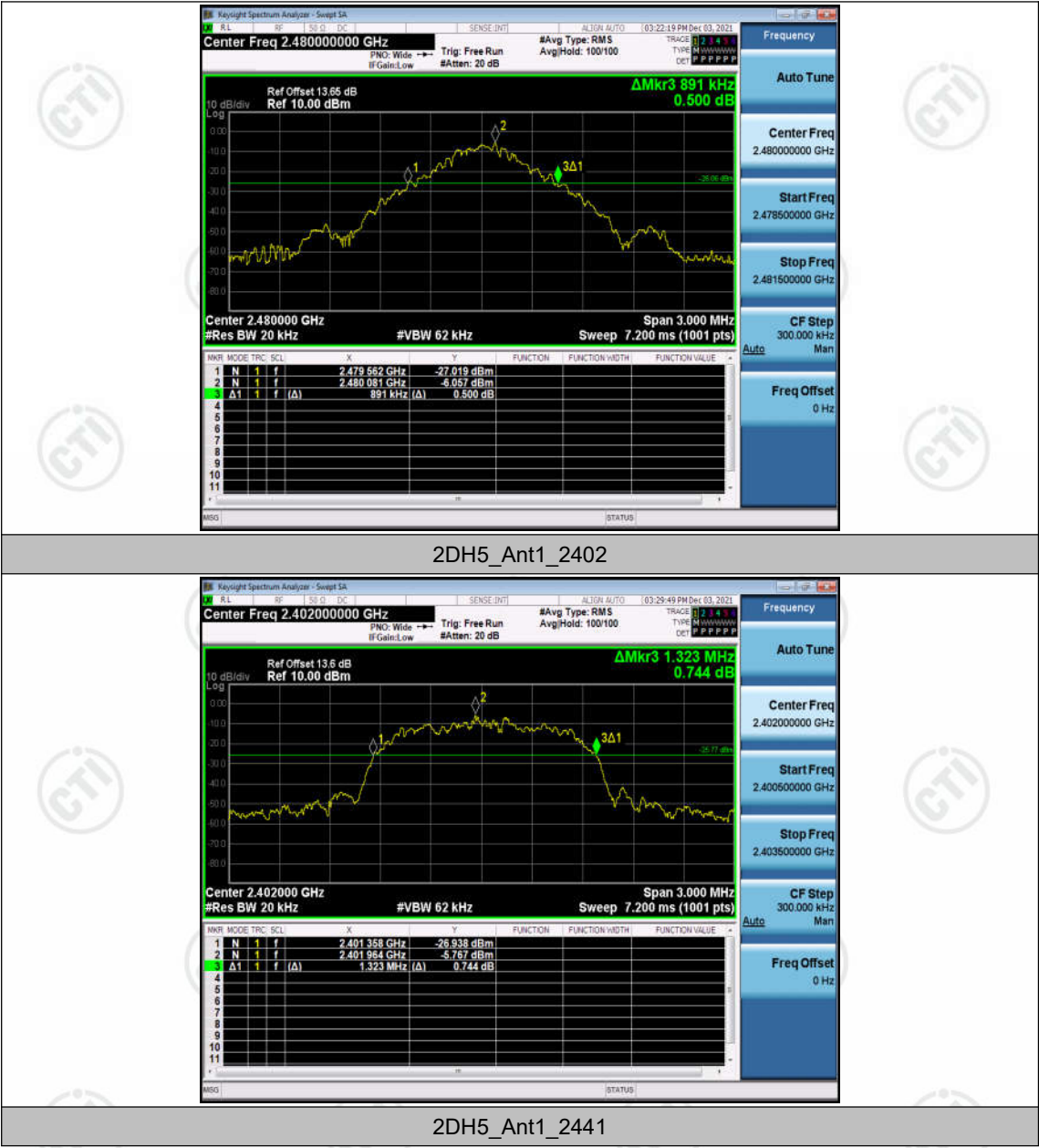
DH5_Ant1_2402

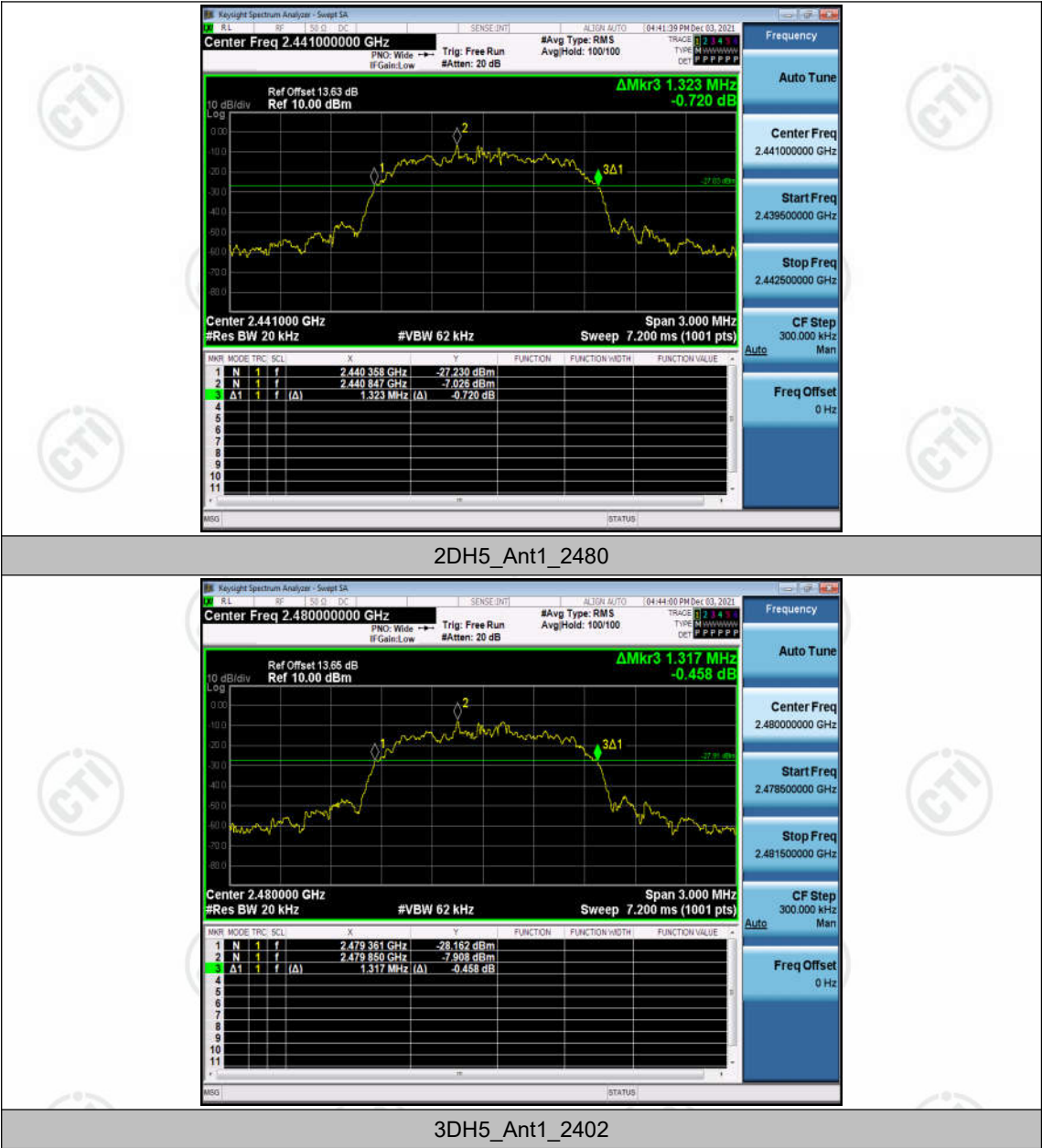


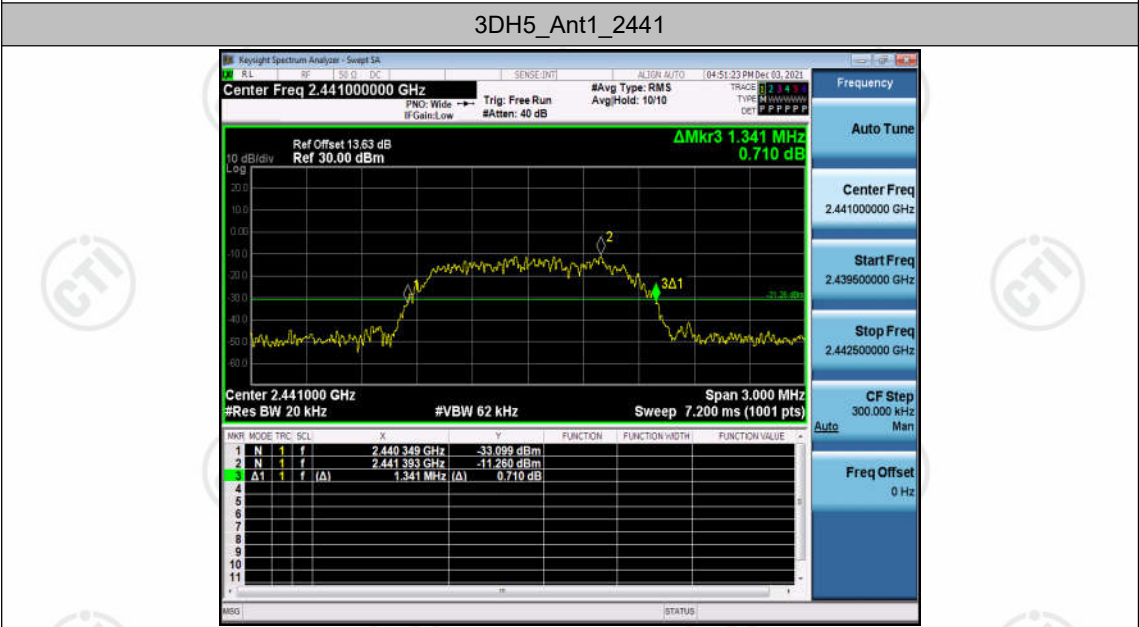
DH5_Ant1_2441

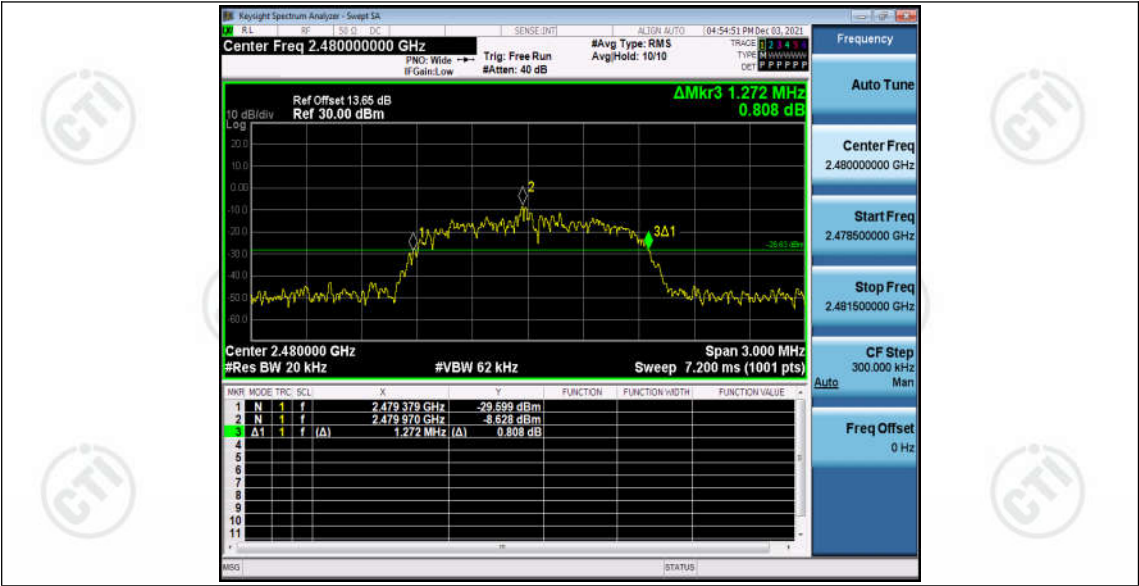


DH5_Ant1_2480







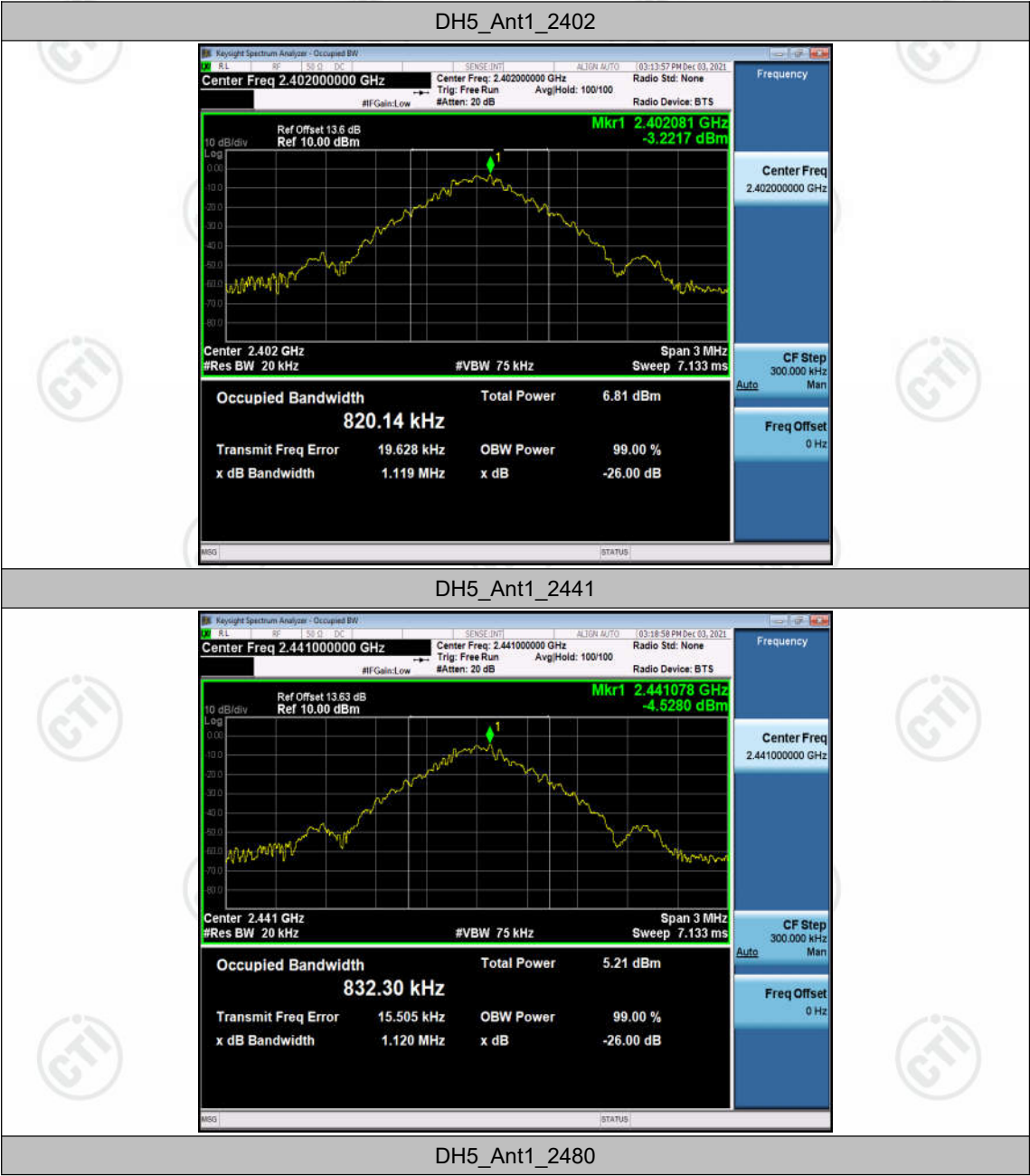


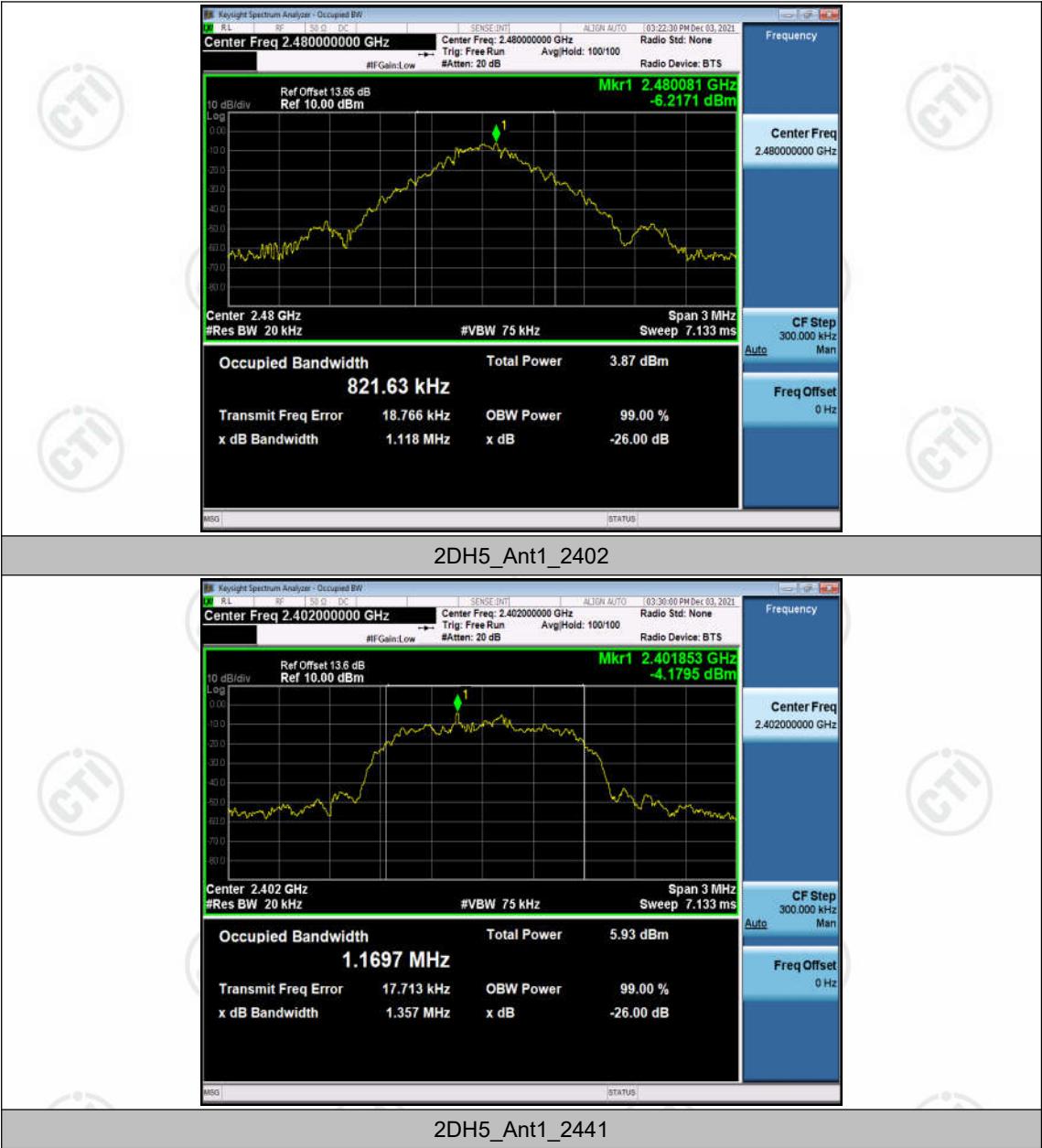
Appendix B: Occupied Channel Bandwidth

Test Result

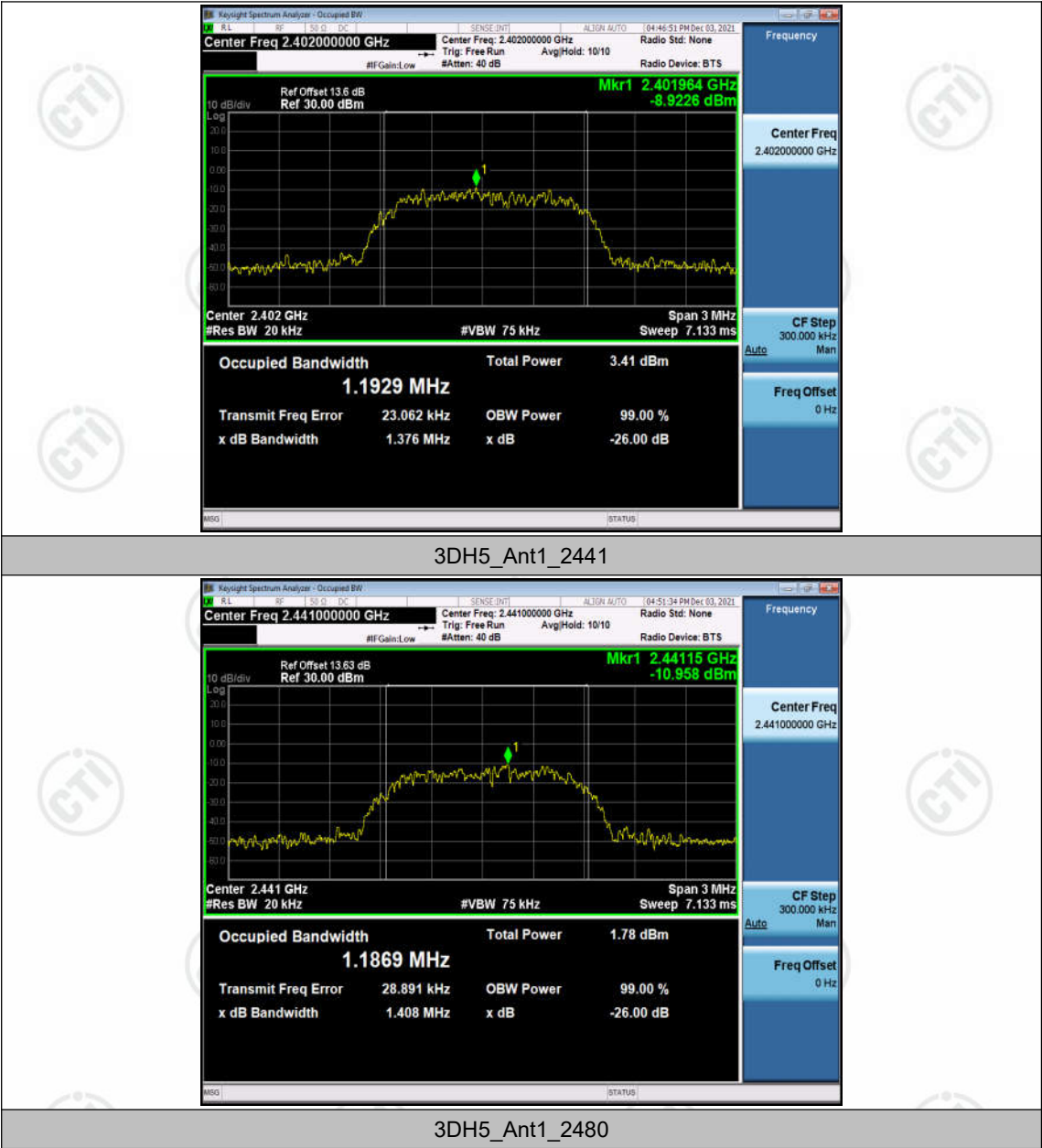
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.82014	2401.610	2402.430	---	PASS
		2441	0.83230	2440.599	2441.432	---	PASS
		2480	0.82163	2479.608	2480.430	---	PASS
2DH5	Ant1	2402	1.1697	2401.433	2402.603	---	PASS
		2441	1.1705	2440.434	2441.604	---	PASS
		2480	1.1717	2479.433	2480.605	---	PASS
3DH5	Ant1	2402	1.1929	2401.427	2402.620	---	PASS
		2441	1.1869	2440.435	2441.622	---	PASS
		2480	1.2147	2479.403	2480.618	---	PASS

Test Graphs









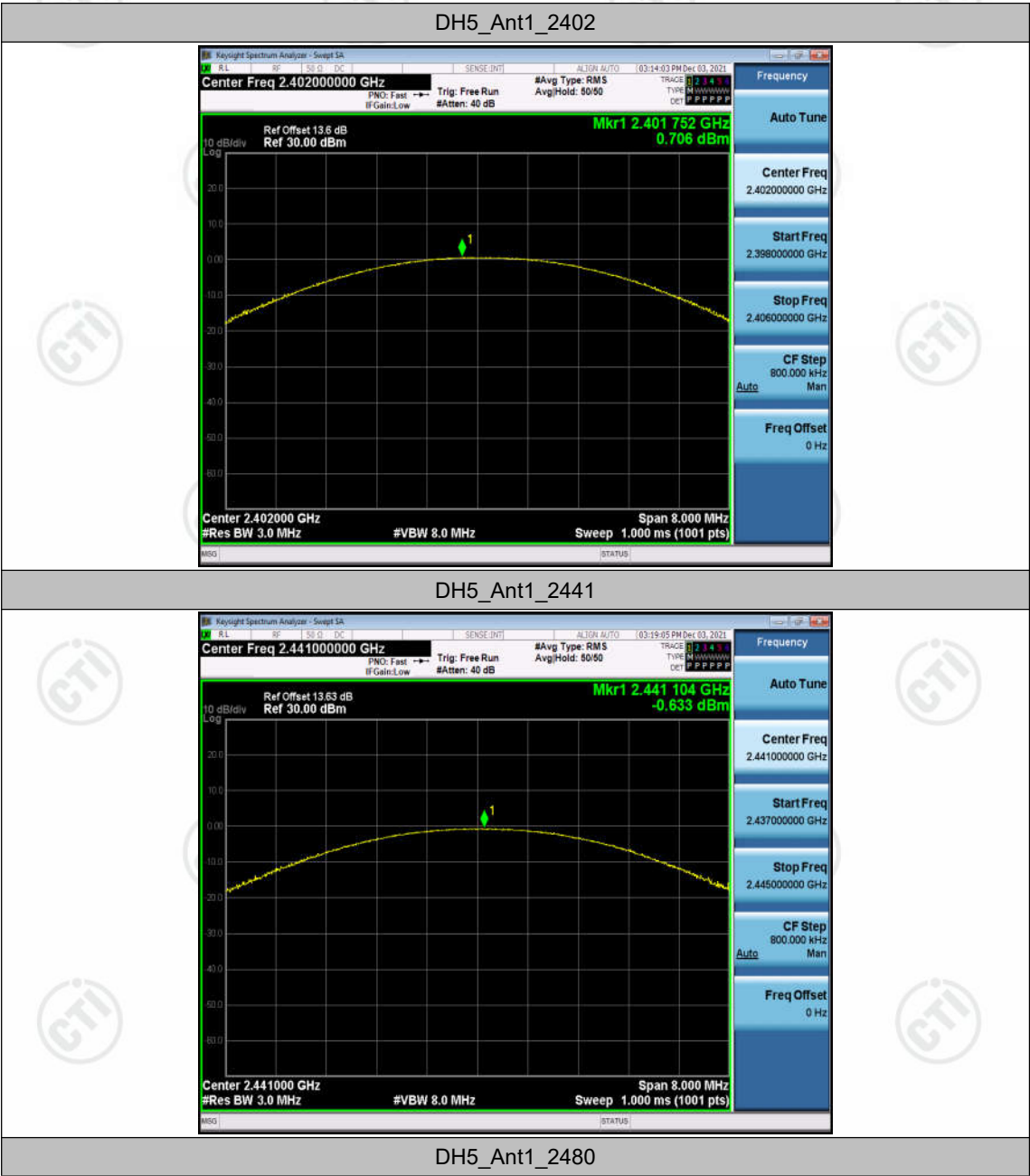


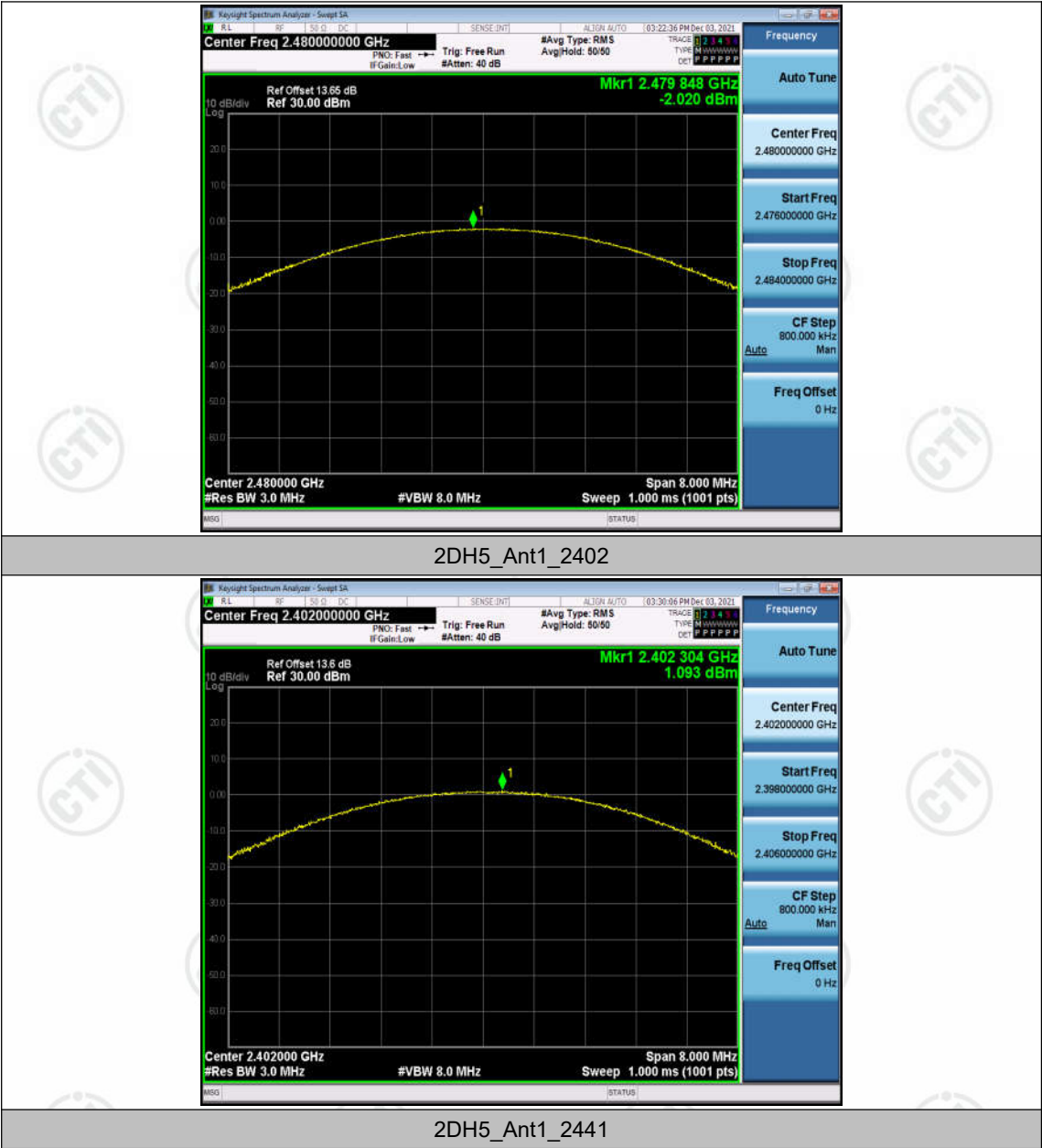
Appendix C: Maximum conducted output power

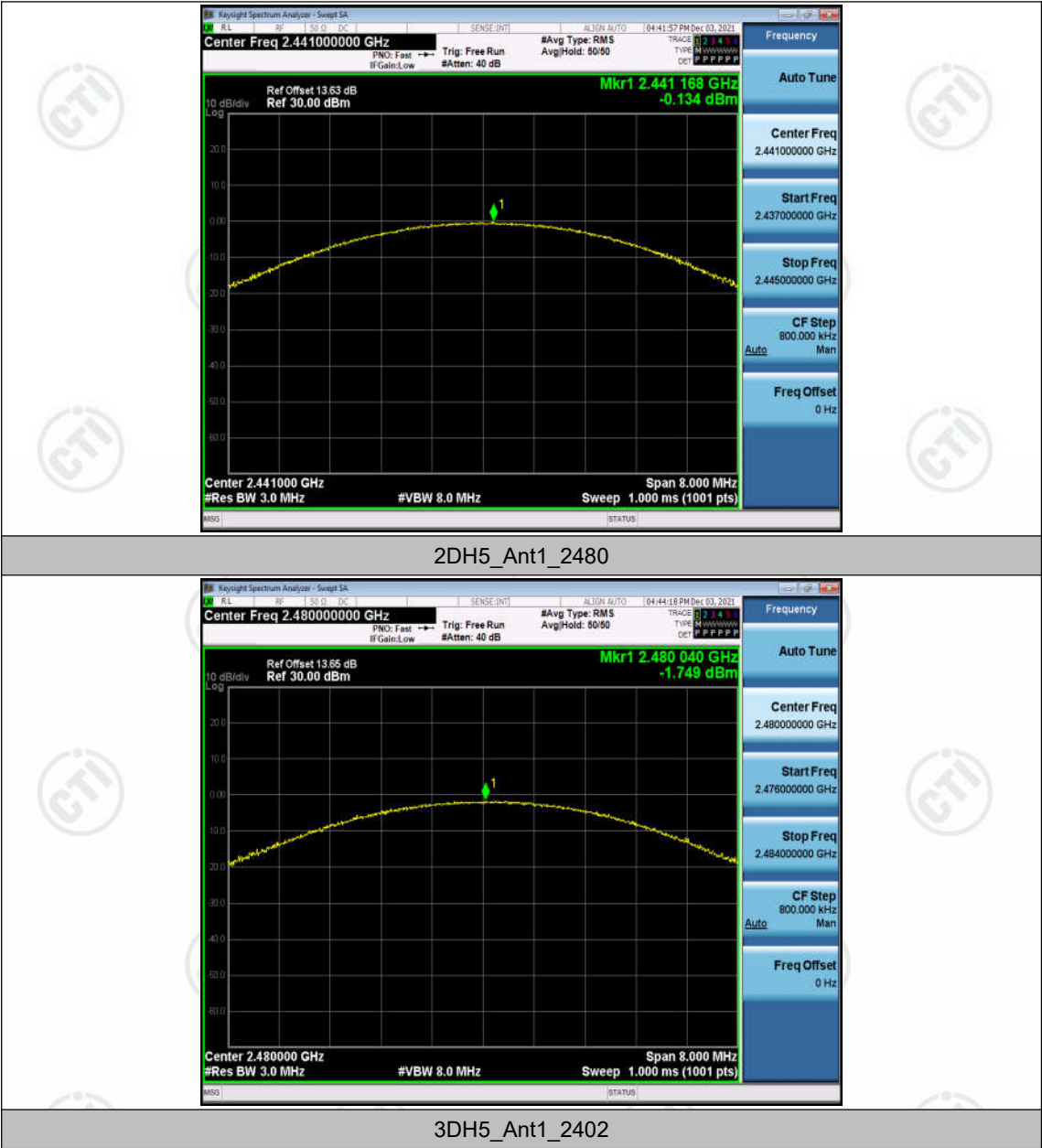
Test Result

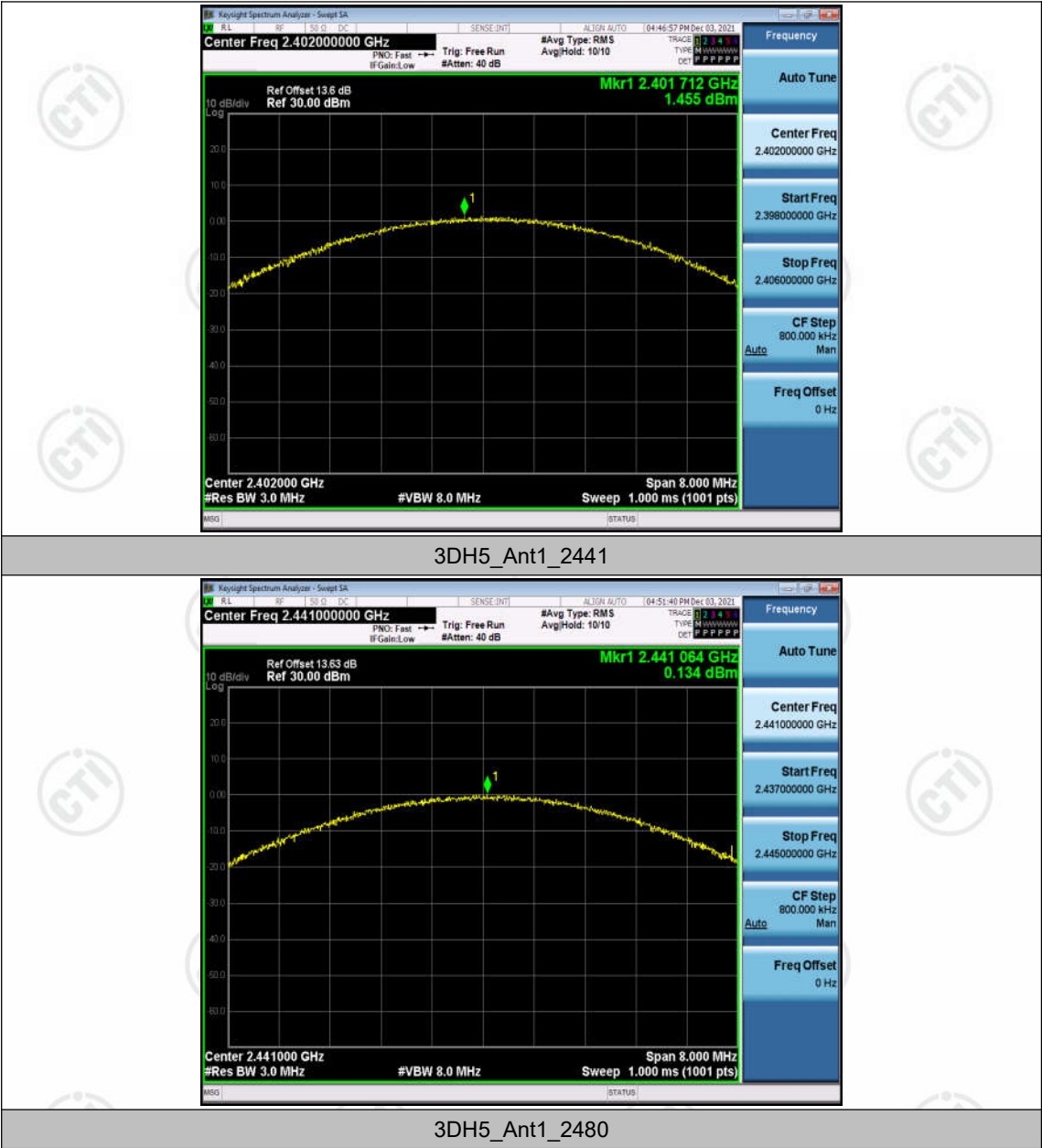
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.71	<=20.97	PASS
		2441	-0.63	<=20.97	PASS
		2480	-2.02	<=20.97	PASS
2DH5	Ant1	2402	1.09	<=20.97	PASS
		2441	-0.13	<=20.97	PASS
		2480	-1.75	<=20.97	PASS
3DH5	Ant1	2402	1.46	<=20.97	PASS
		2441	0.13	<=20.97	PASS
		2480	-1.27	<=20.97	PASS

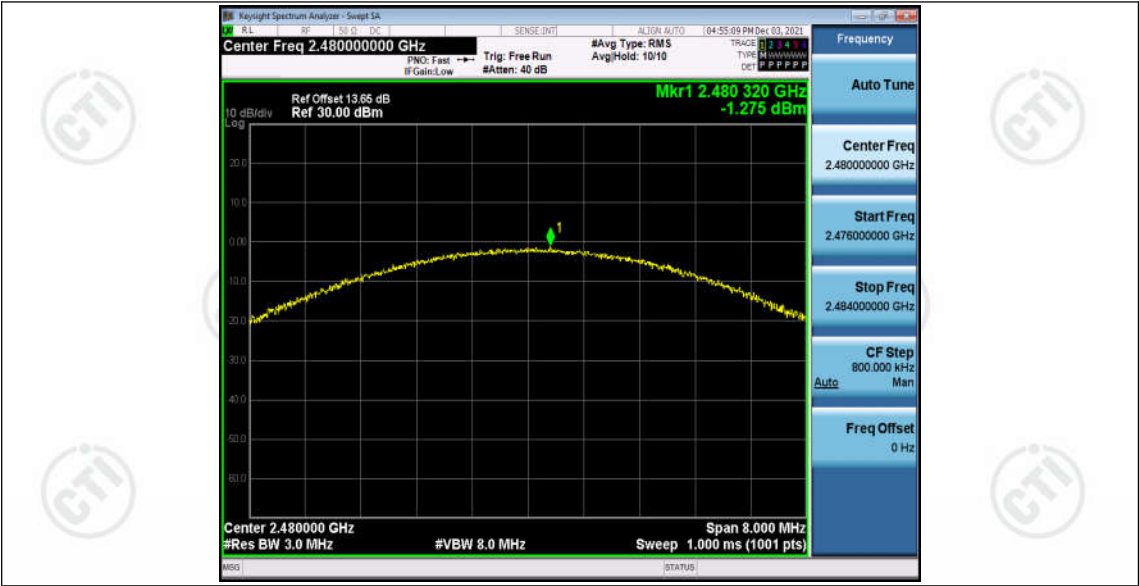
Test Graphs











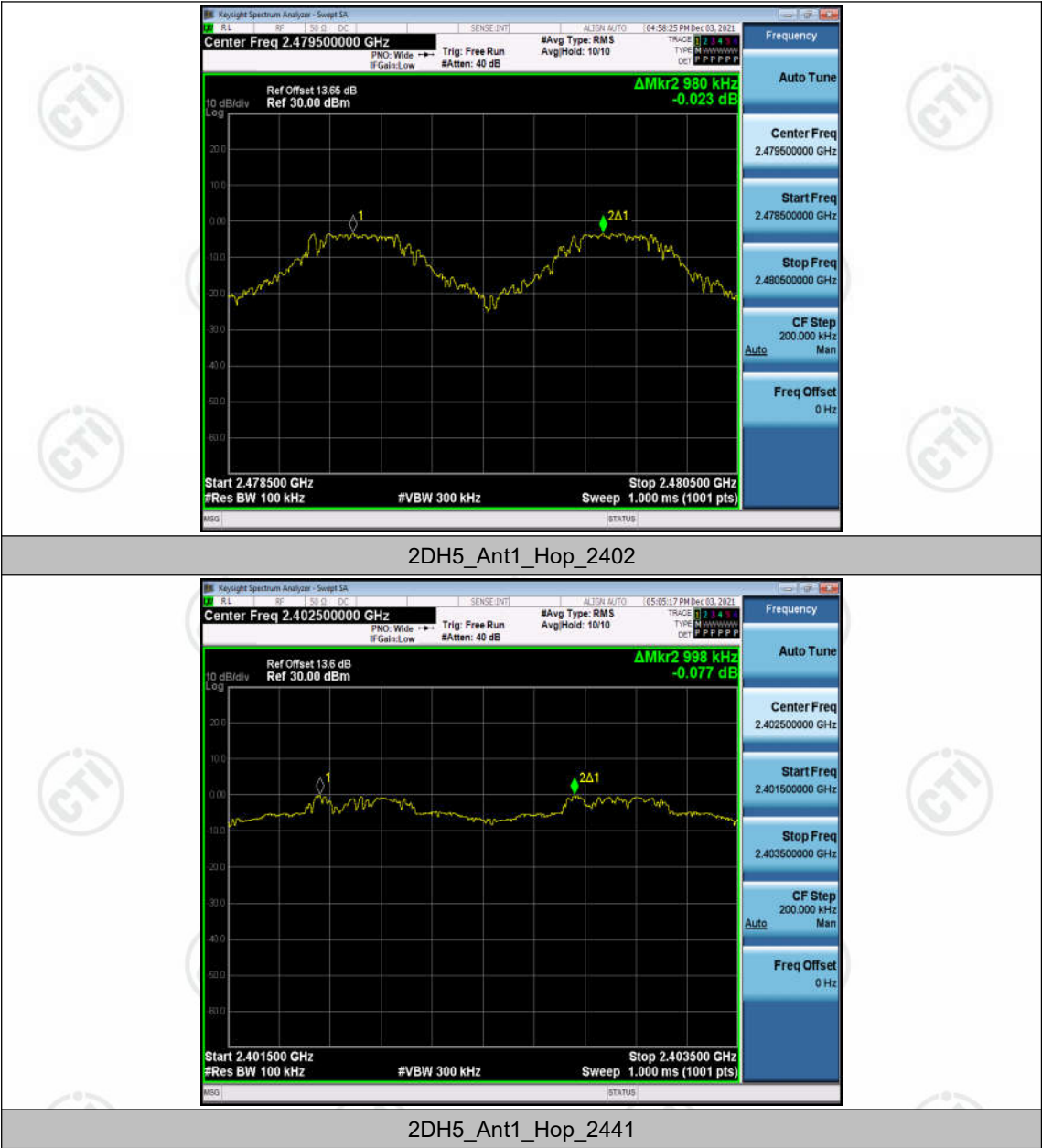
Appendix D: Carrier frequency separation

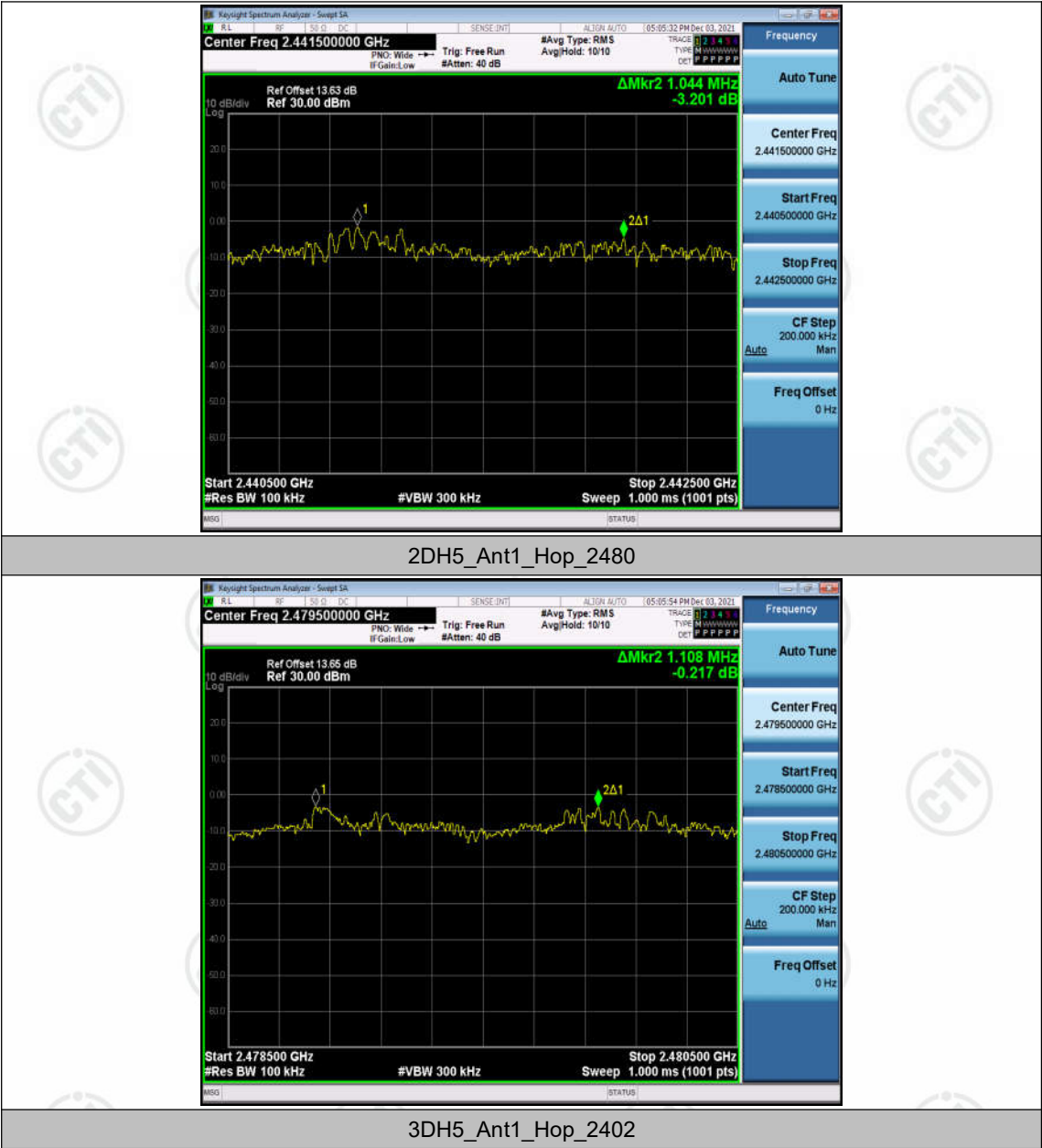
Test Result

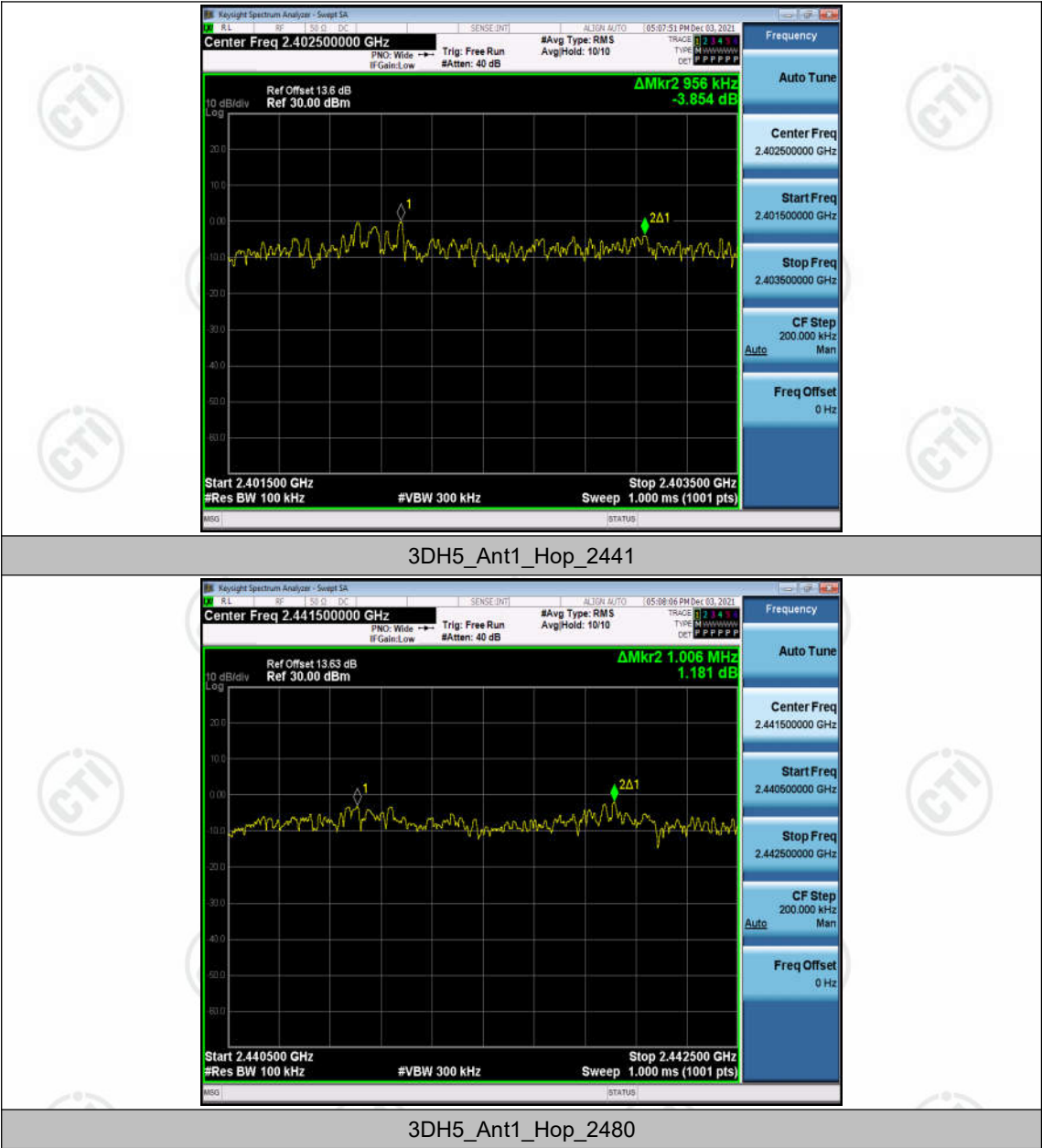
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop_2402	1.146	≥ 0.891	PASS
		Hop_2441	1.144	≥ 0.891	PASS
		Hop_2480	0.98	≥ 0.891	PASS
2DH5	Ant1	Hop_2402	0.998	≥ 0.882	PASS
		Hop_2441	1.044	≥ 0.882	PASS
		Hop_2480	1.108	≥ 0.882	PASS
3DH5	Ant1	Hop_2402	0.956	≥ 0.894	PASS
		Hop_2441	1.006	≥ 0.894	PASS
		Hop_2480	1.146	≥ 0.894	PASS

Test Graphs









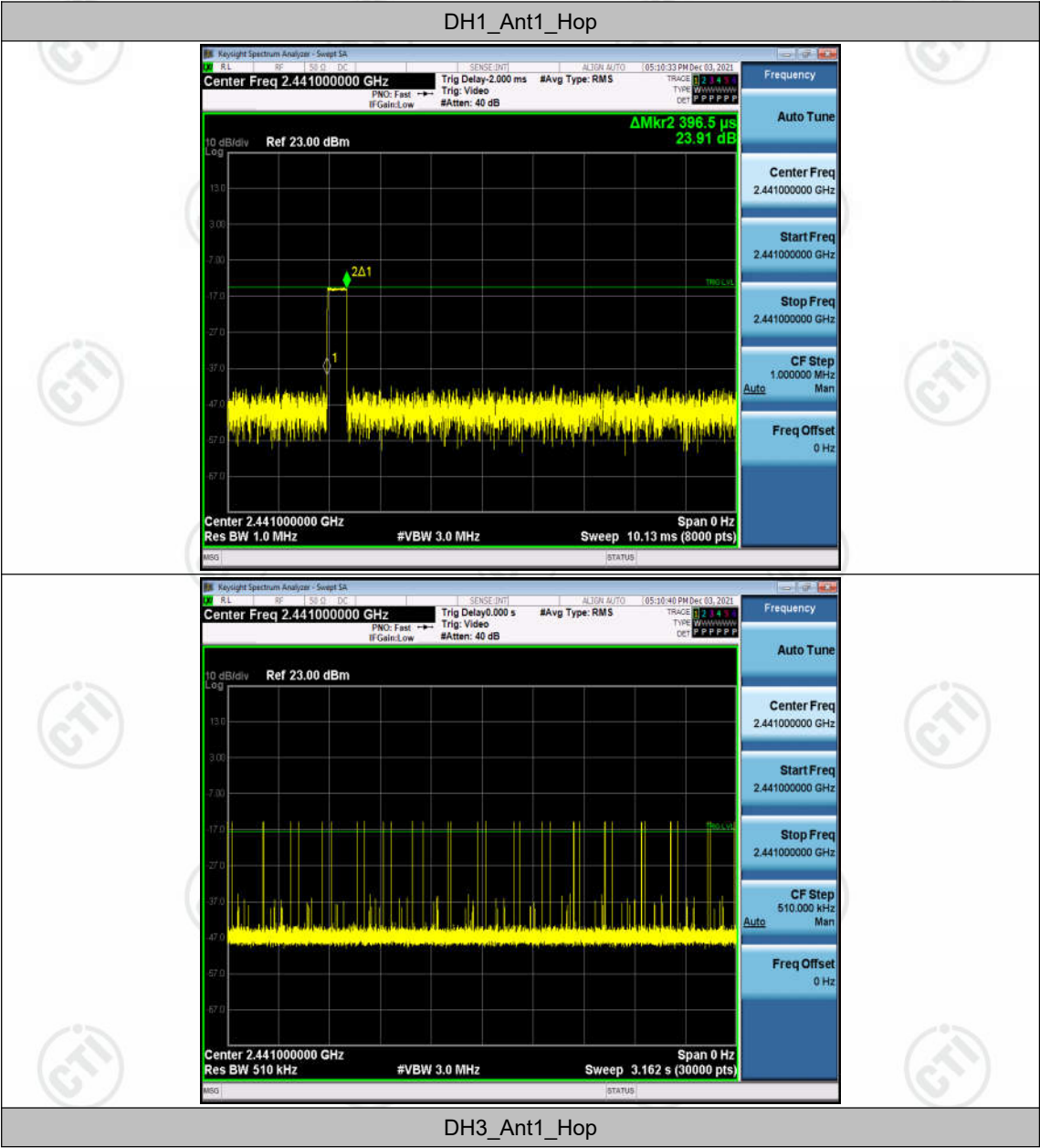


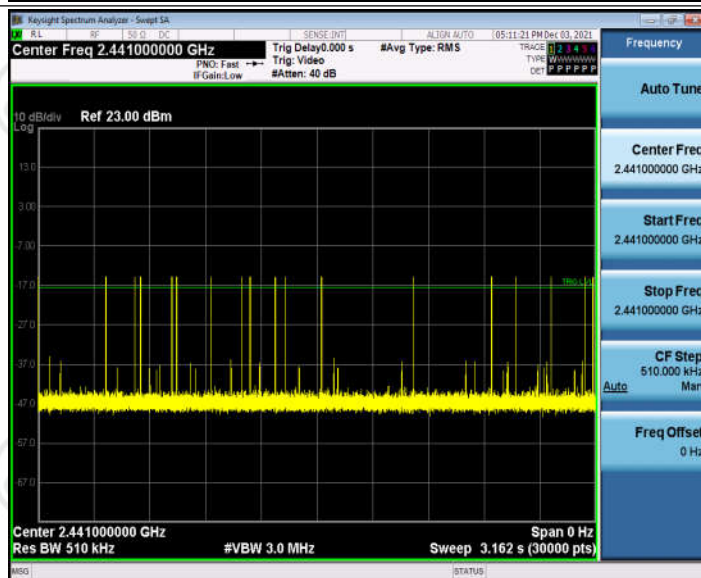
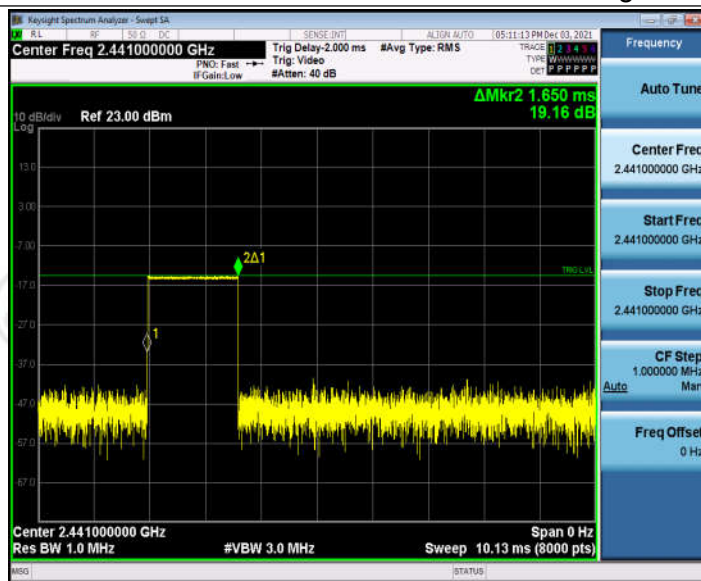
Appendix E: Time of occupancy

Test Result

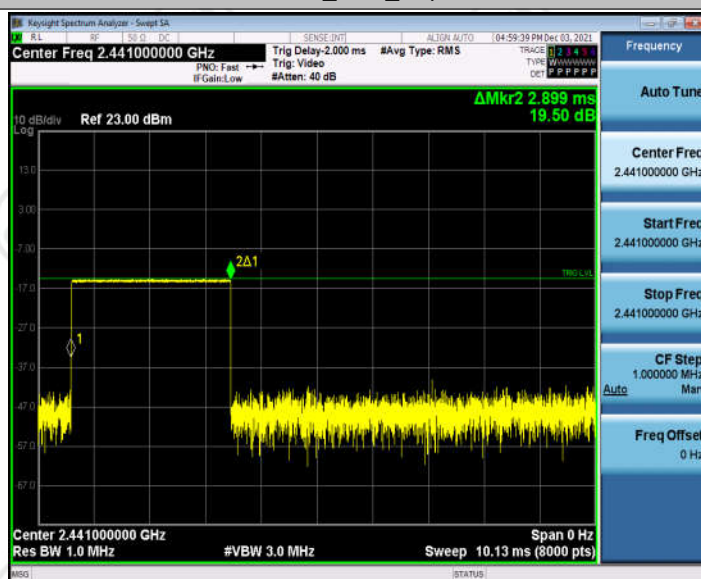
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.40	330	0.131	<=0.4	PASS
DH3	Ant1	Hop	1.65	180	0.297	<=0.4	PASS
DH5	Ant1	Hop	2.90	120	0.348	<=0.4	PASS
2DH1	Ant1	Hop	0.41	330	0.134	<=0.4	PASS
2DH3	Ant1	Hop	1.66	170	0.282	<=0.4	PASS
2DH5	Ant1	Hop	2.91	80	0.232	<=0.4	PASS
3DH1	Ant1	Hop	0.41	320	0.13	<=0.4	PASS
3DH3	Ant1	Hop	1.66	140	0.232	<=0.4	PASS
3DH5	Ant1	Hop	2.91	100	0.291	<=0.4	PASS

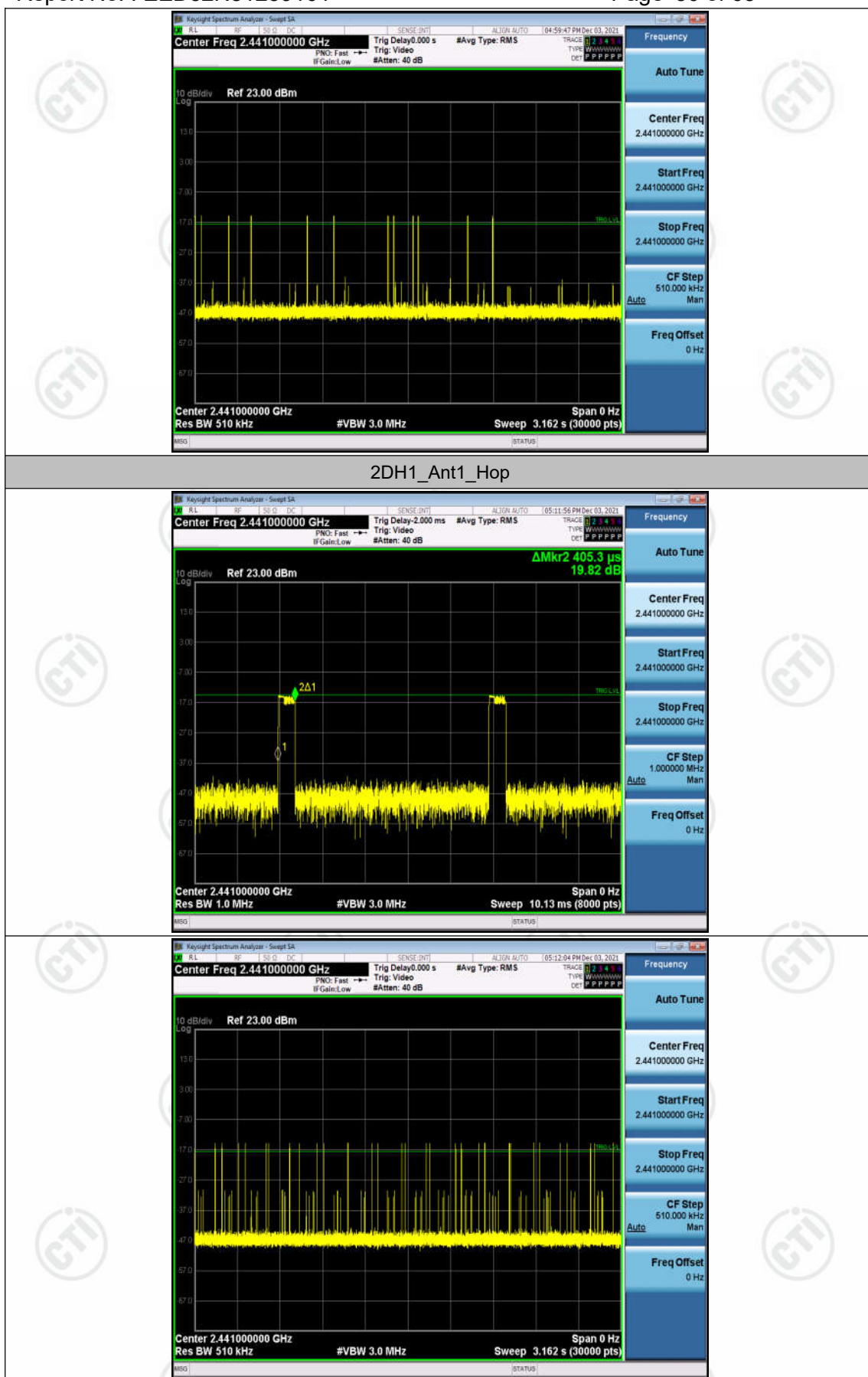
Test Graphs

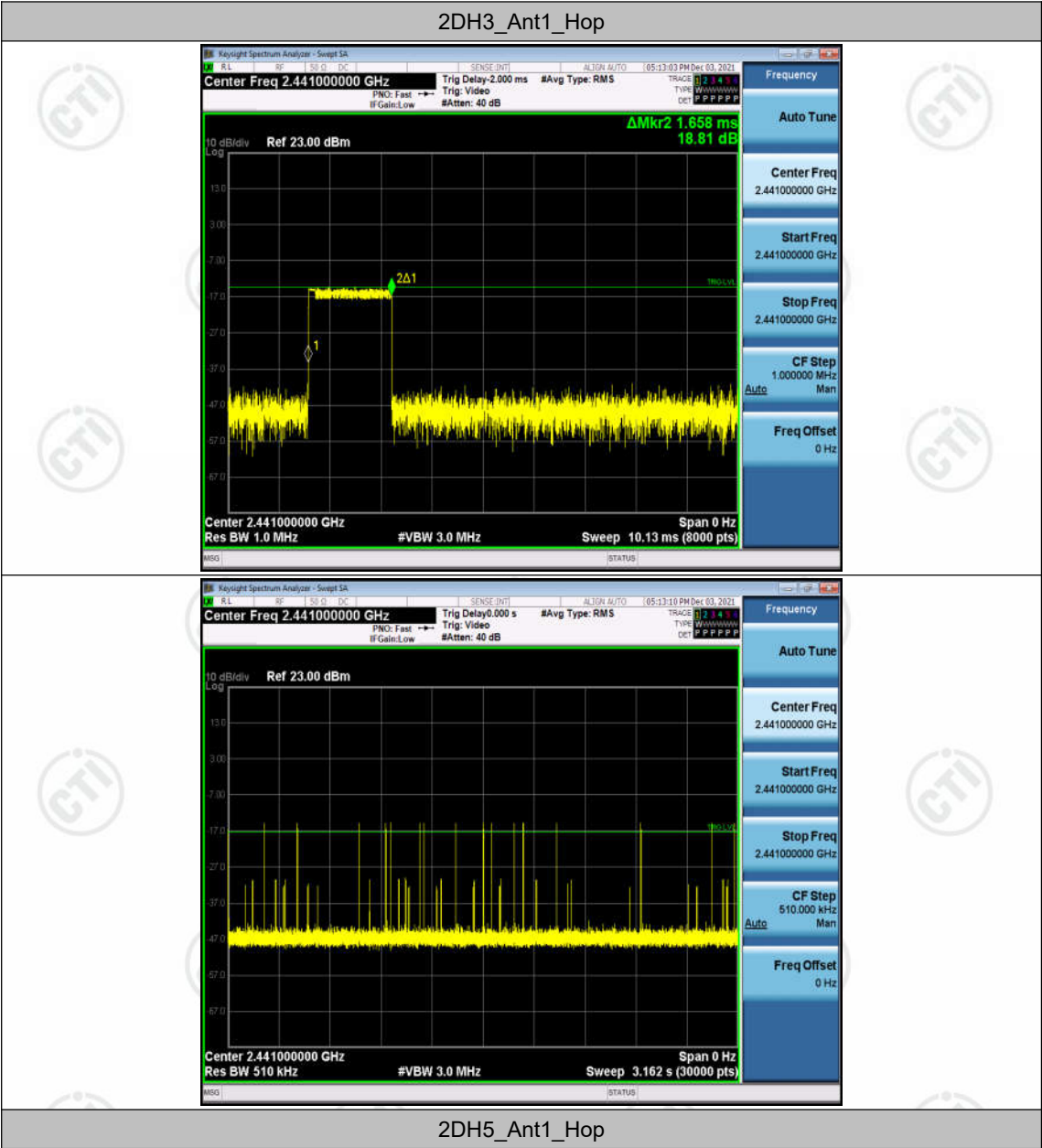


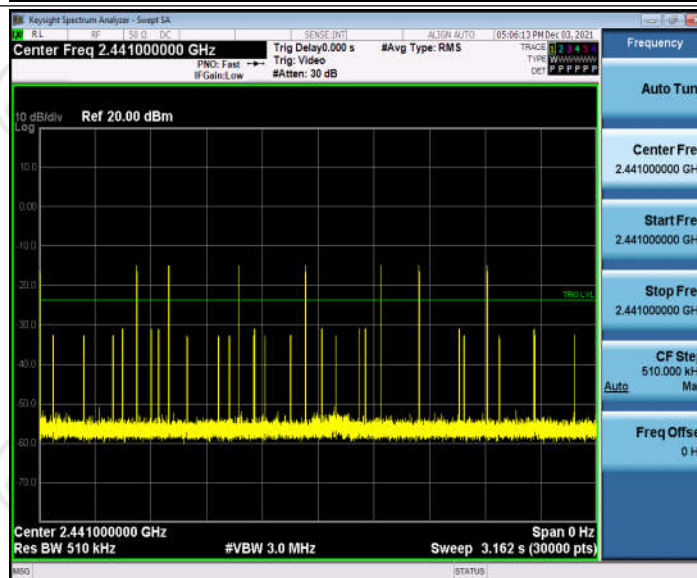
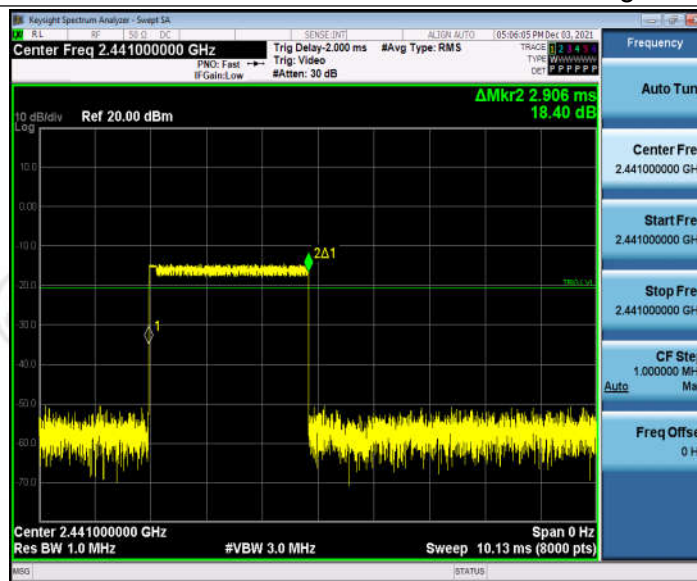


DH5_Ant1_Hop

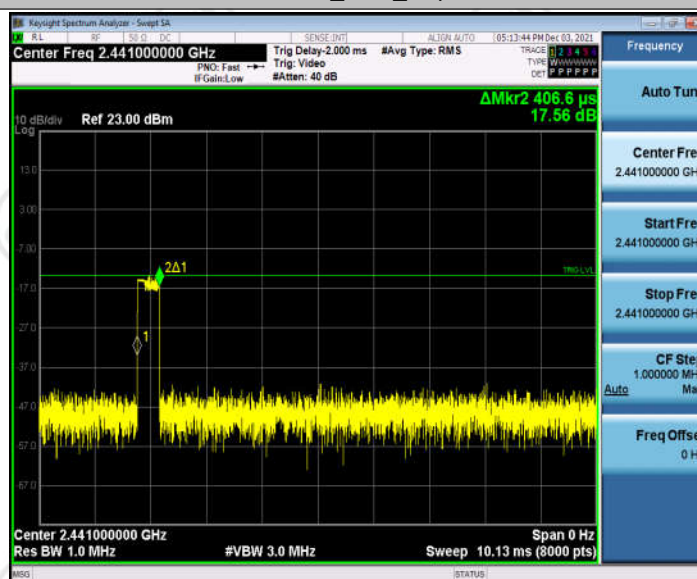


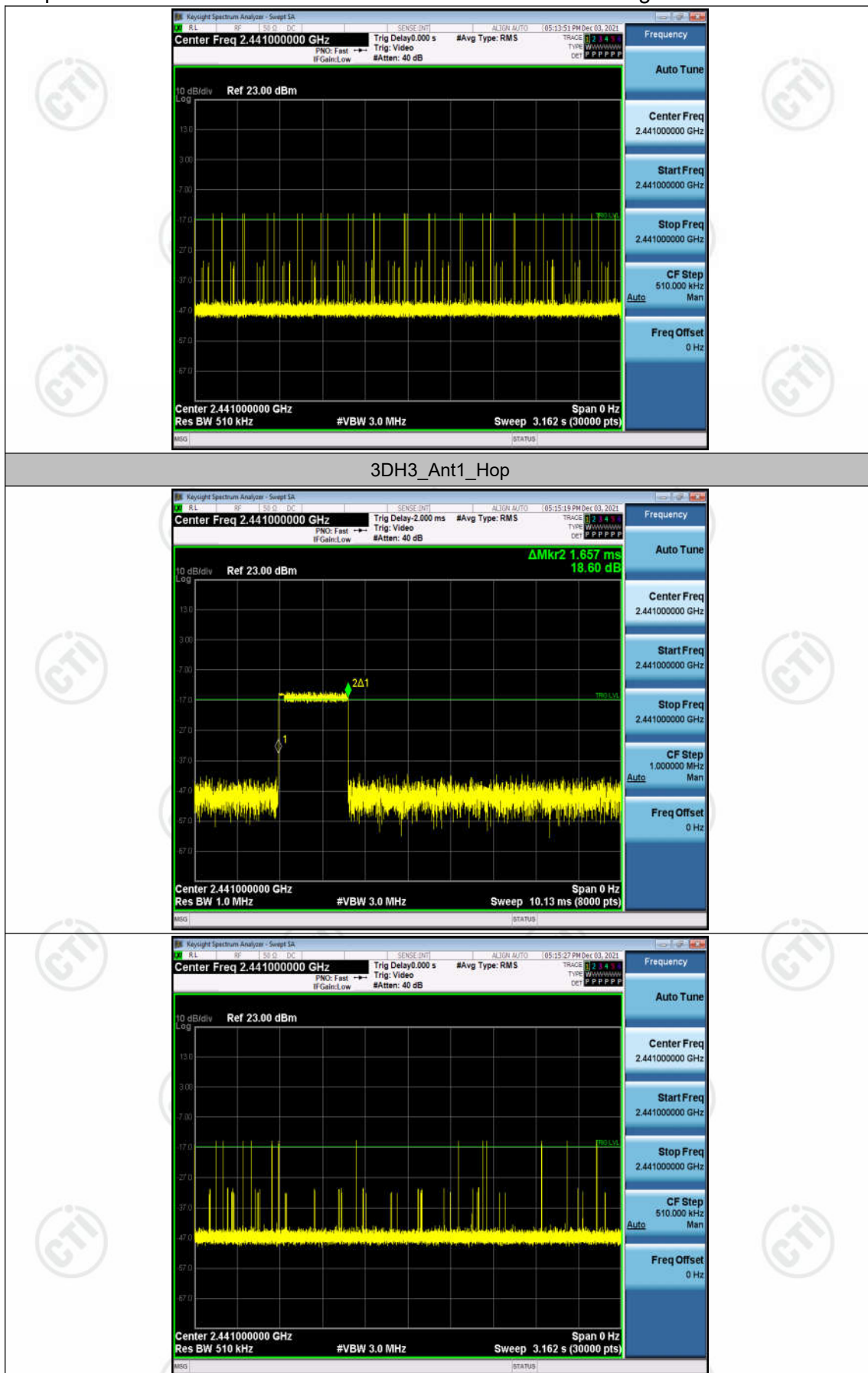


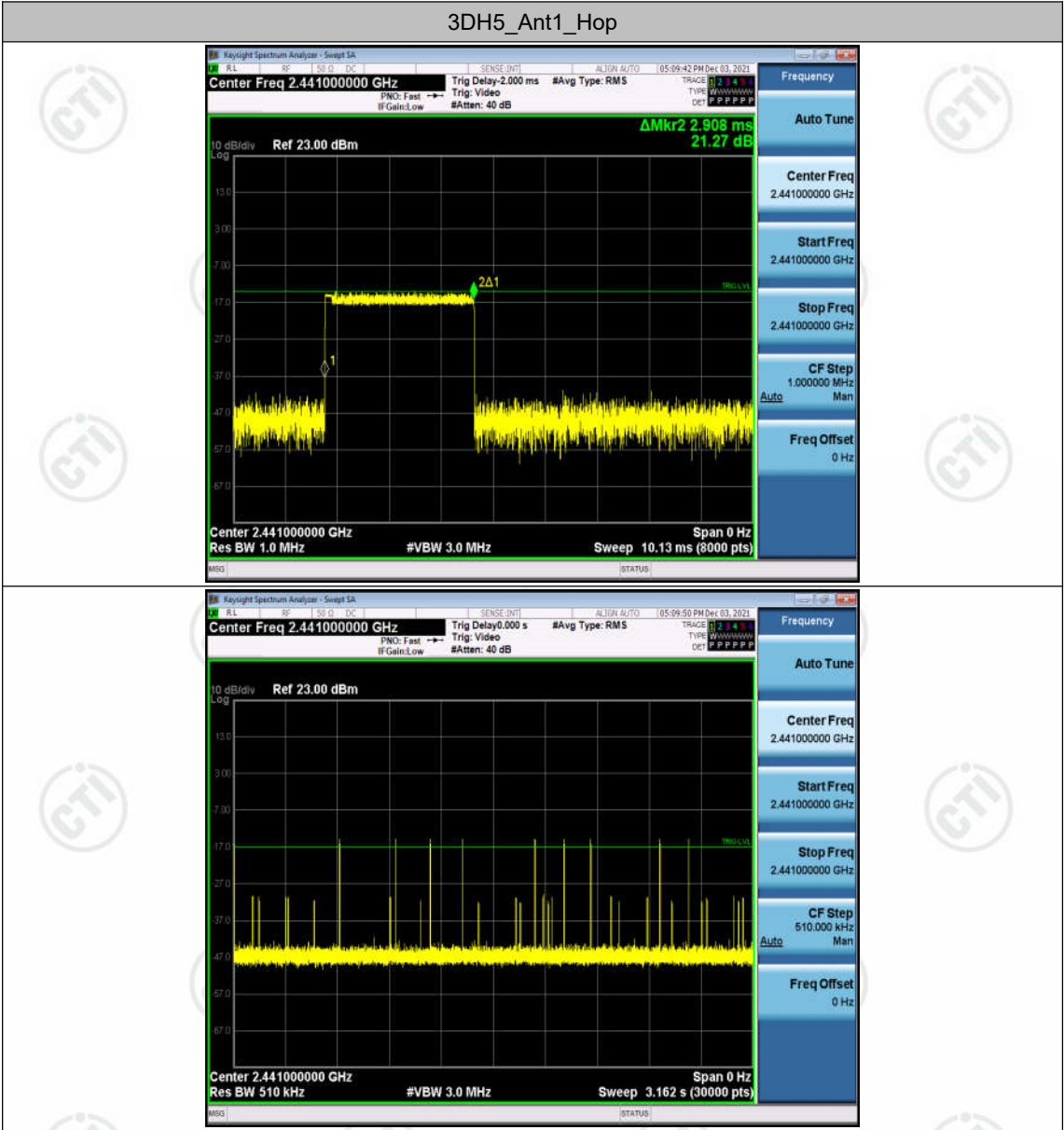




3DH1_Ant1_Hop





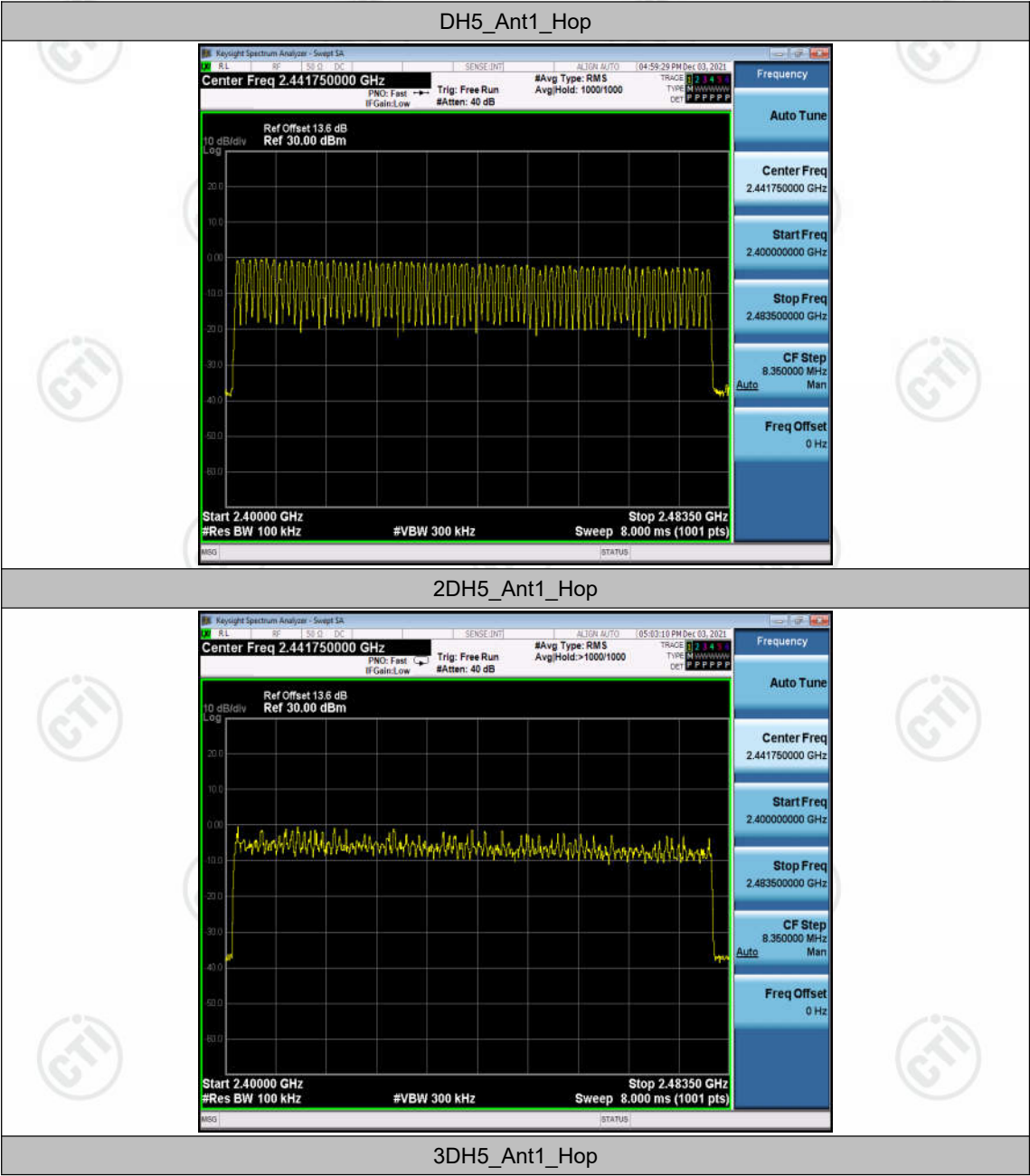


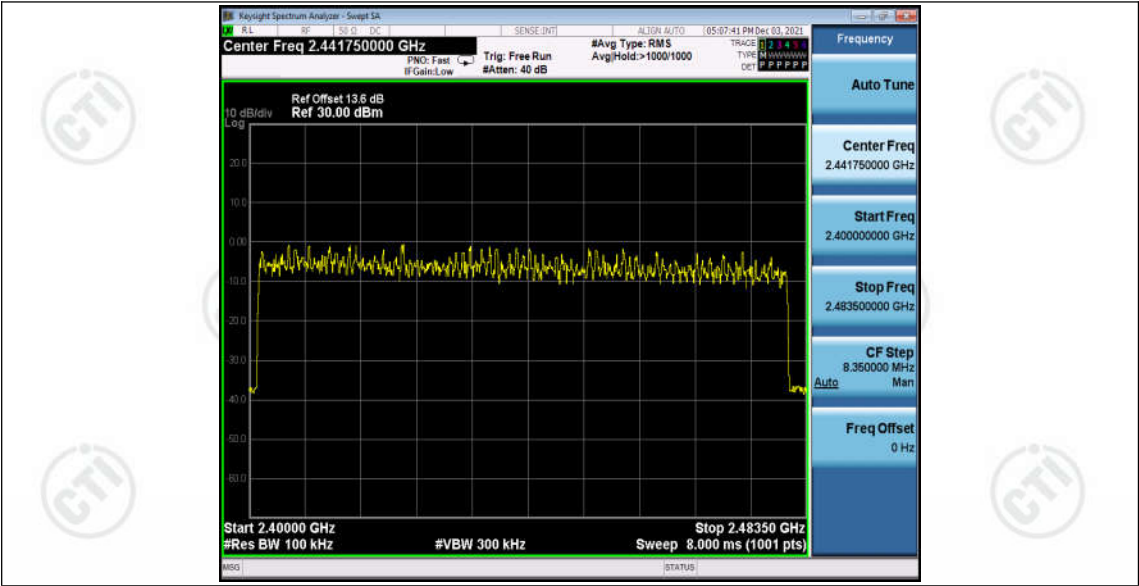
Appendix F: Number of hopping channels

Test Result

TestMode	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





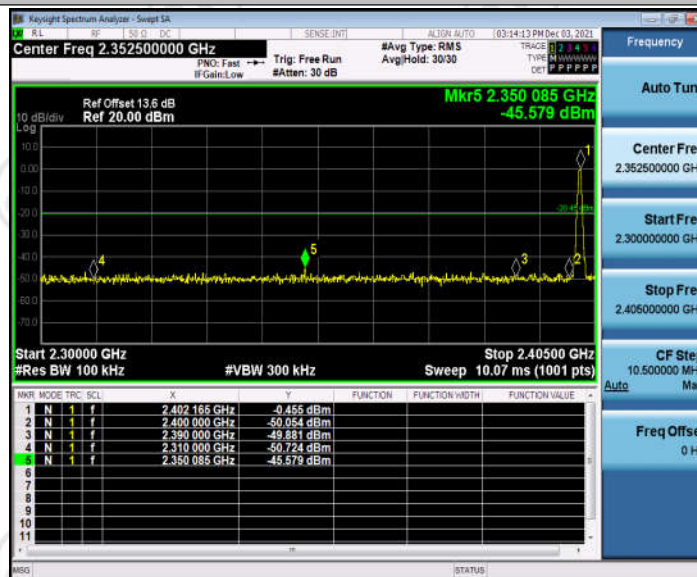
Appendix G: Band edge measurements

Test Result

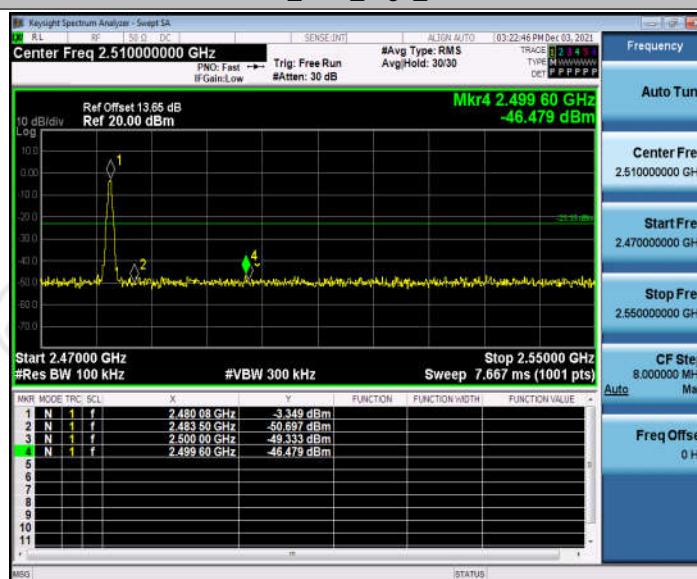
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.46	-45.58	<=-20.45	PASS
		High	2480	-3.35	-46.48	<=-23.35	PASS
		Low	Hop_2402	-0.43	-45.71	<=-20.43	PASS
		High	Hop_2480	-2.63	-45.47	<=-22.63	PASS
2DH5	Ant1	Low	2402	-3.96	-45.96	<=-23.96	PASS
		High	2480	-4.76	-46.89	<=-24.76	PASS
		Low	Hop_2402	-3.83	-45.71	<=-23.83	PASS
		High	Hop_2480	-2.62	-45.31	<=-22.62	PASS
3DH5	Ant1	Low	2402	-4.03	-45.11	<=-24.03	PASS
		High	2480	-4.24	-46.63	<=-24.24	PASS
		Low	Hop_2402	-3.26	-45.82	<=-23.26	PASS
		High	Hop_2480	-3.06	-45.69	<=-23.06	PASS

Test Graphs

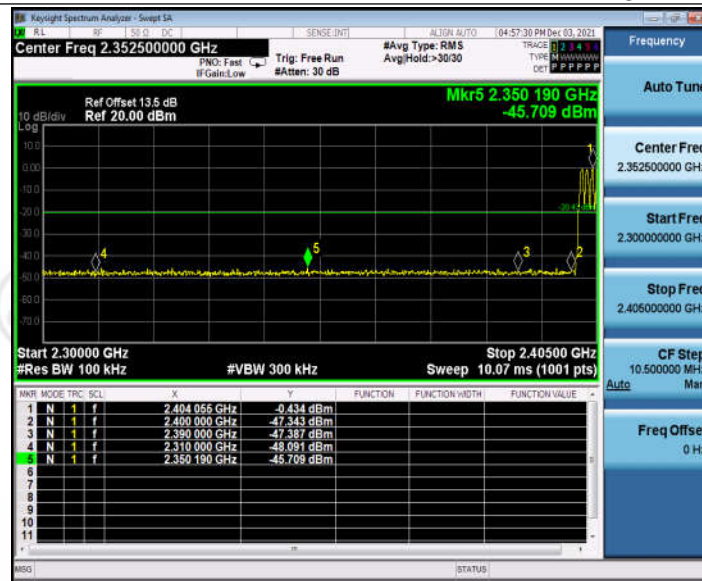
DH5_Ant1_Low_2402



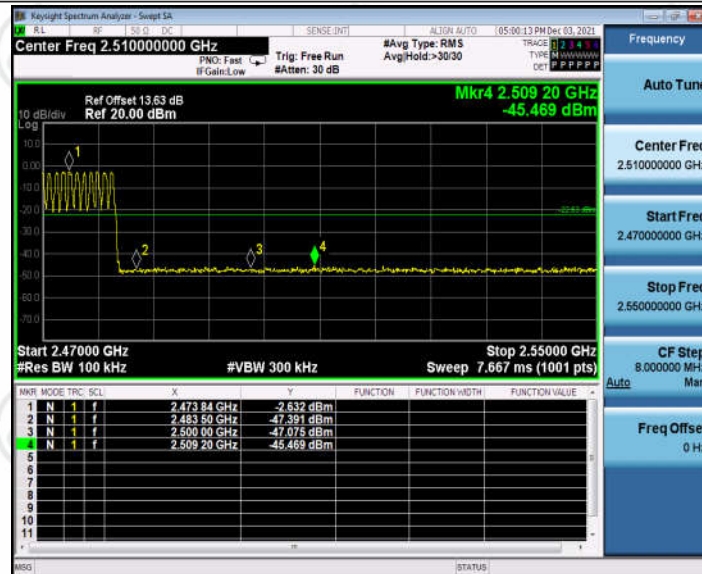
DH5_Ant1_High_2480



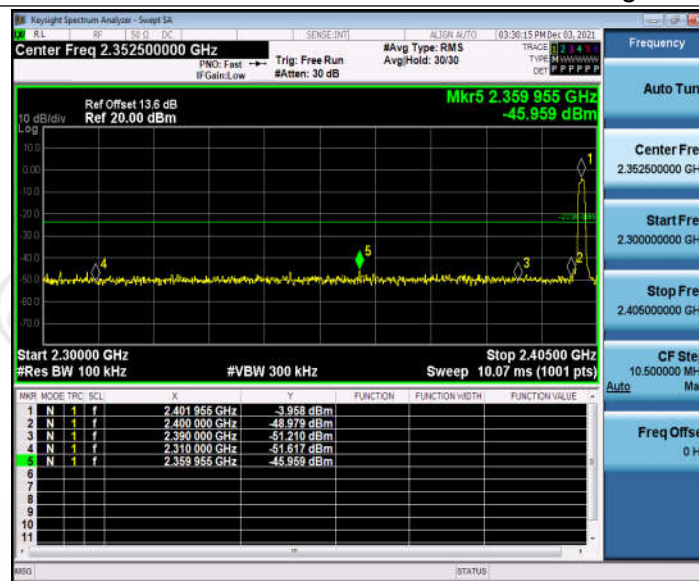
DH5_Ant1_Low_Hop_2402



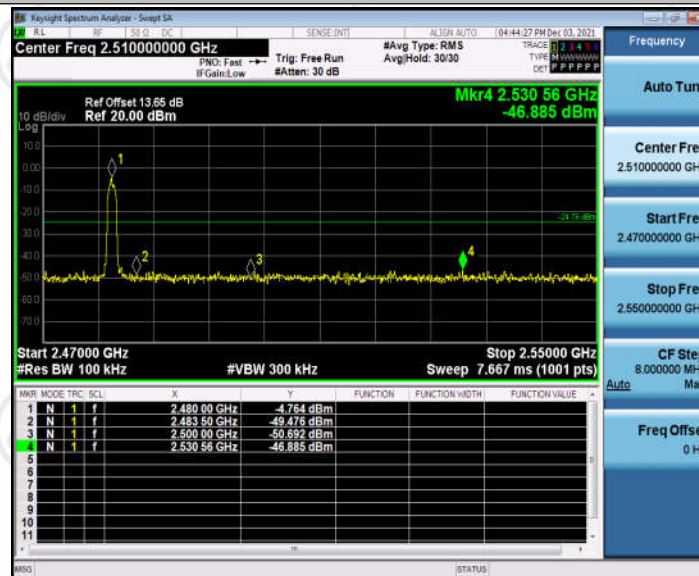
DH5_Ant1_High_Hop_2480



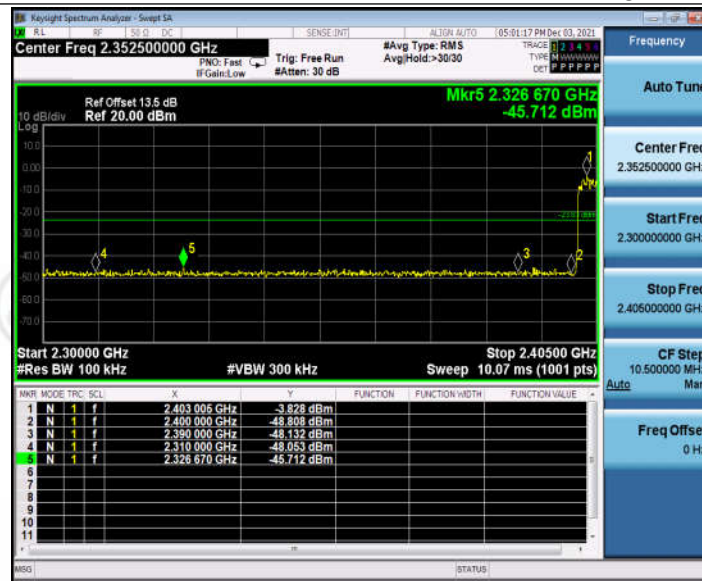
2DH5_Ant1_Low_2402



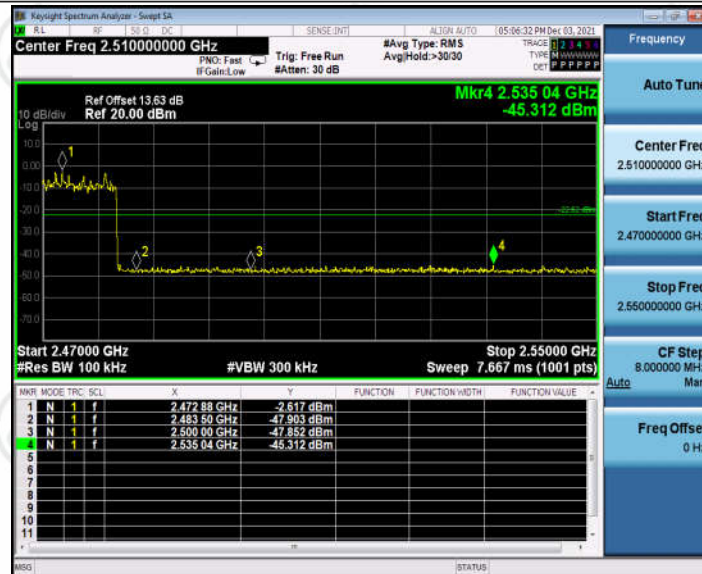
2DH5_Ant1_High_2480



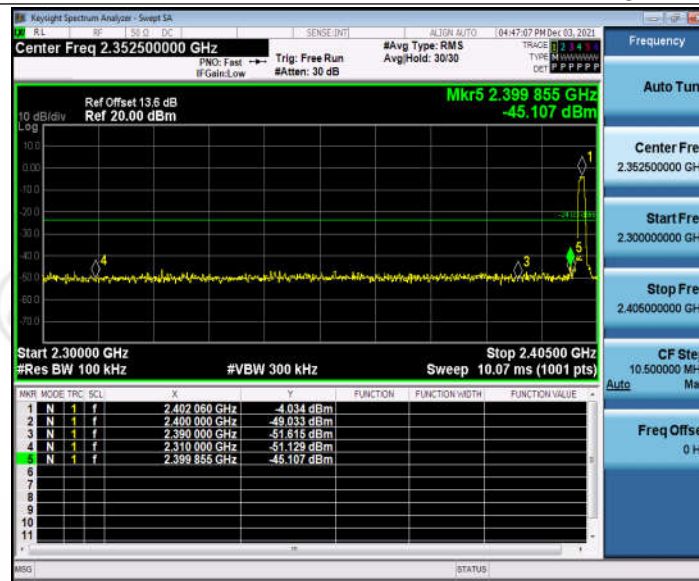
2DH5_Ant1_Low_Hop_2402



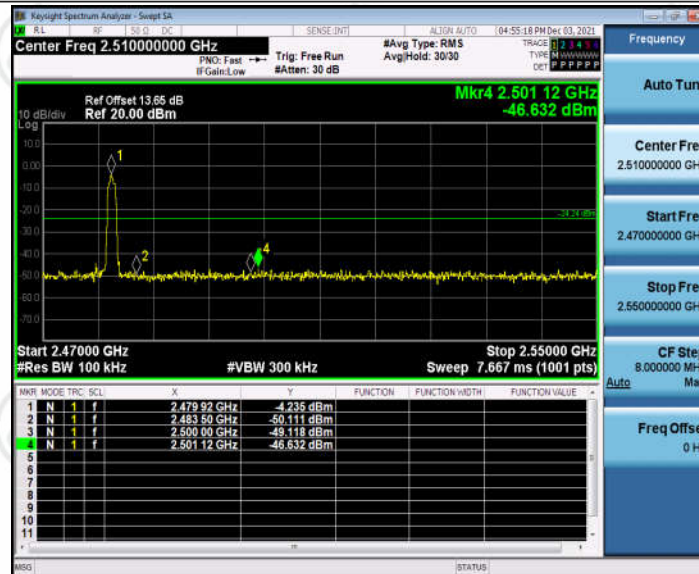
2DH5_Ant1_High_Hop_2480



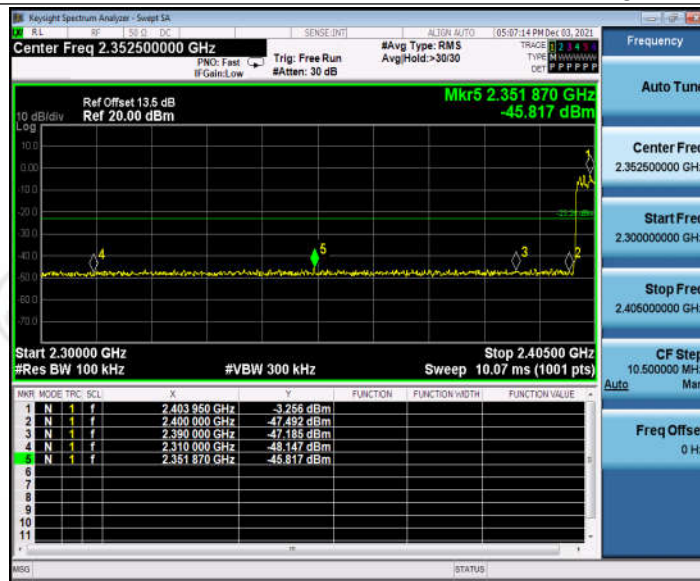
3DH5_Ant1_Low_2402



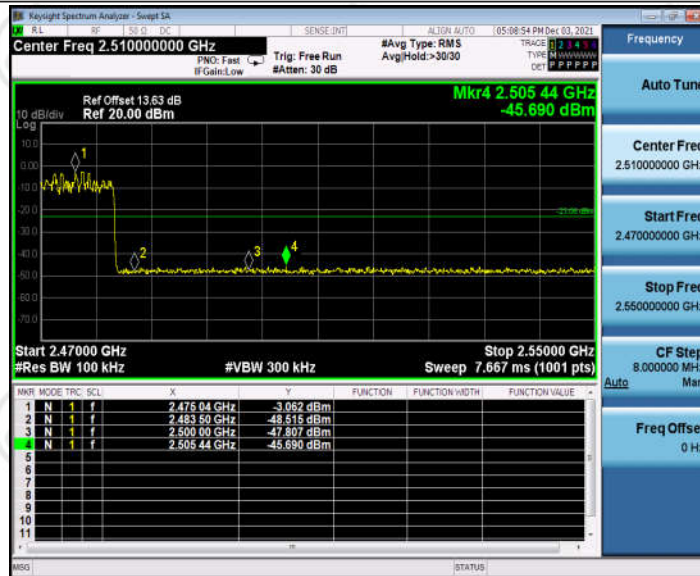
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

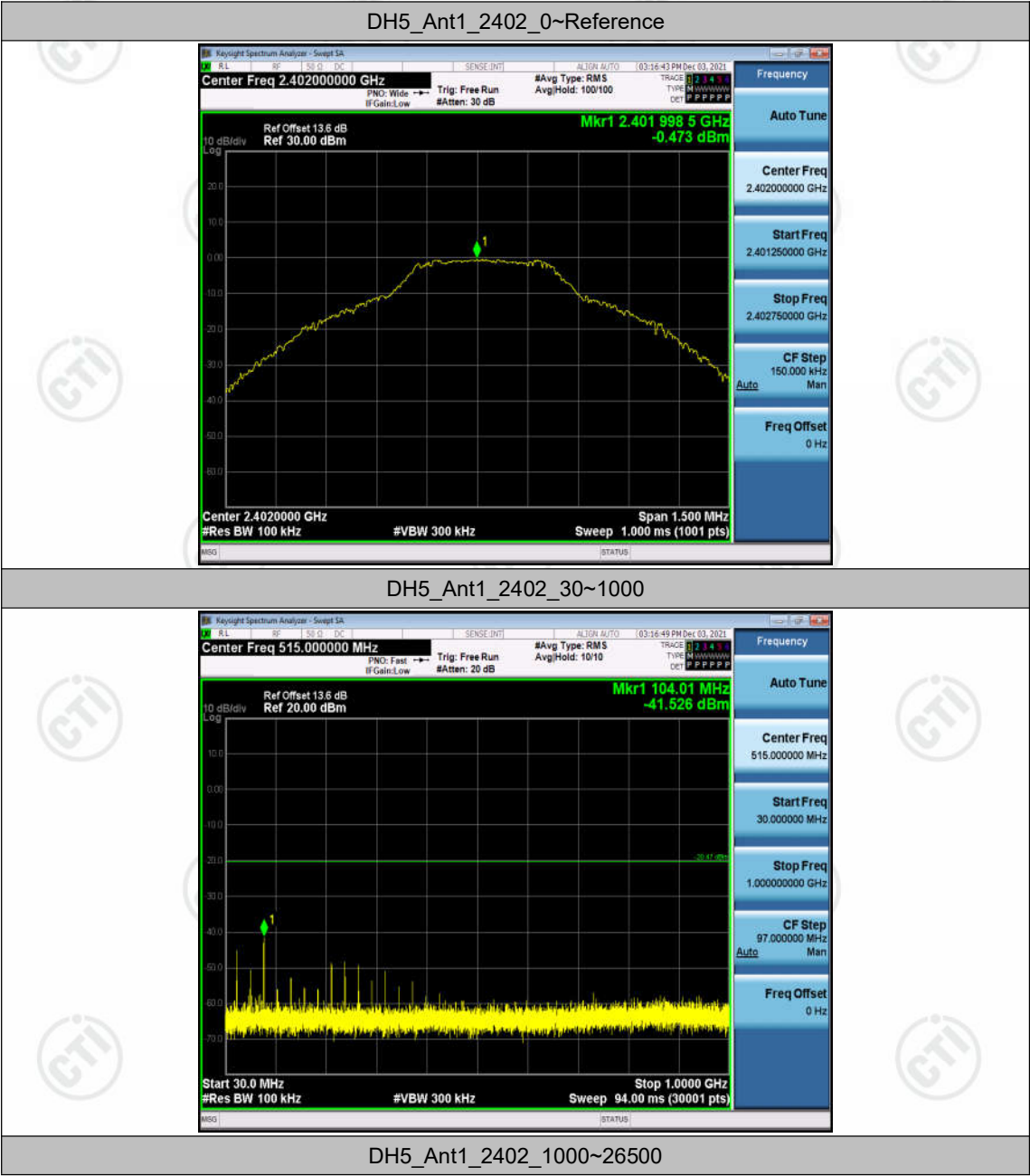


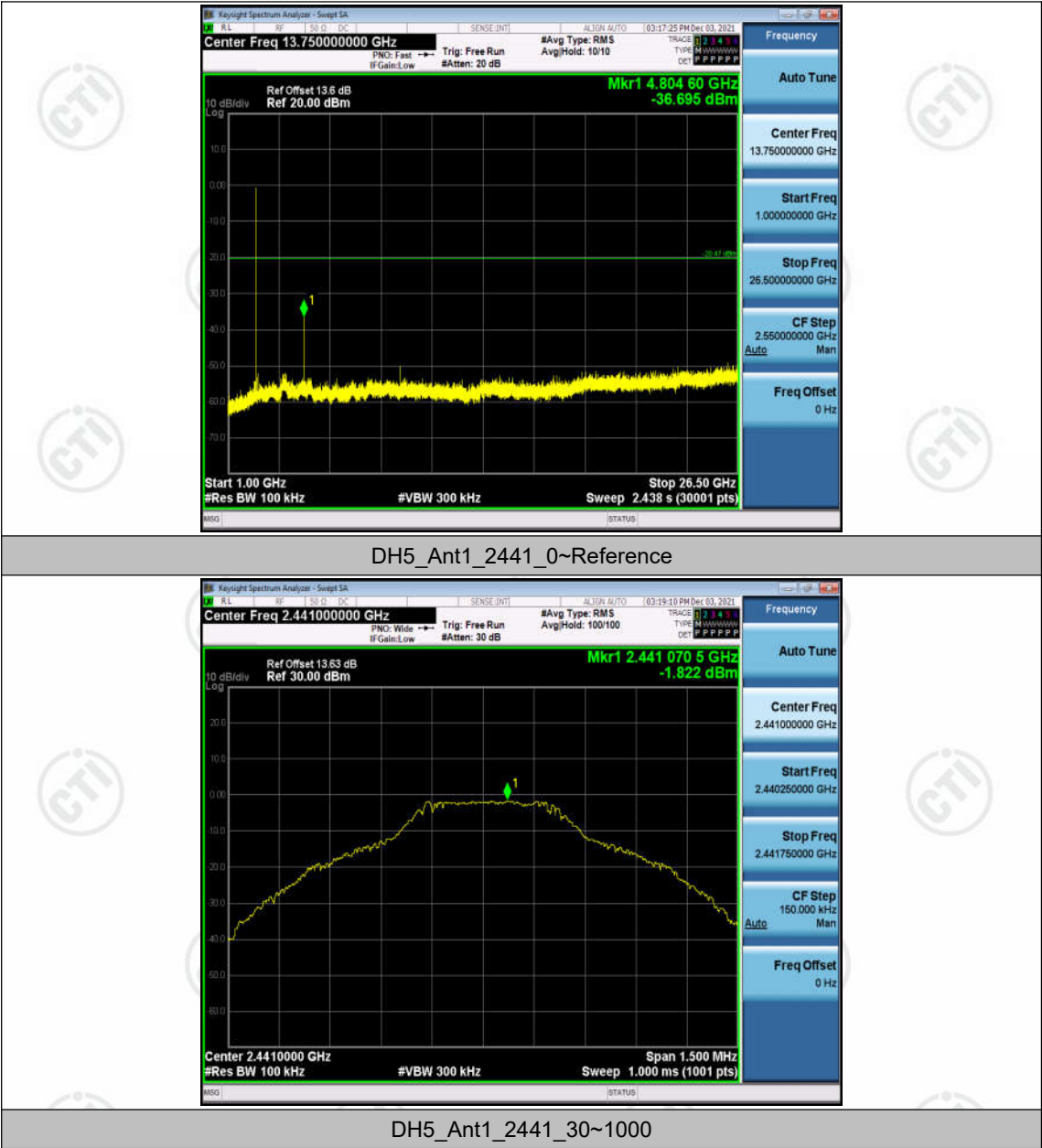
Appendix H: Conducted Spurious Emission

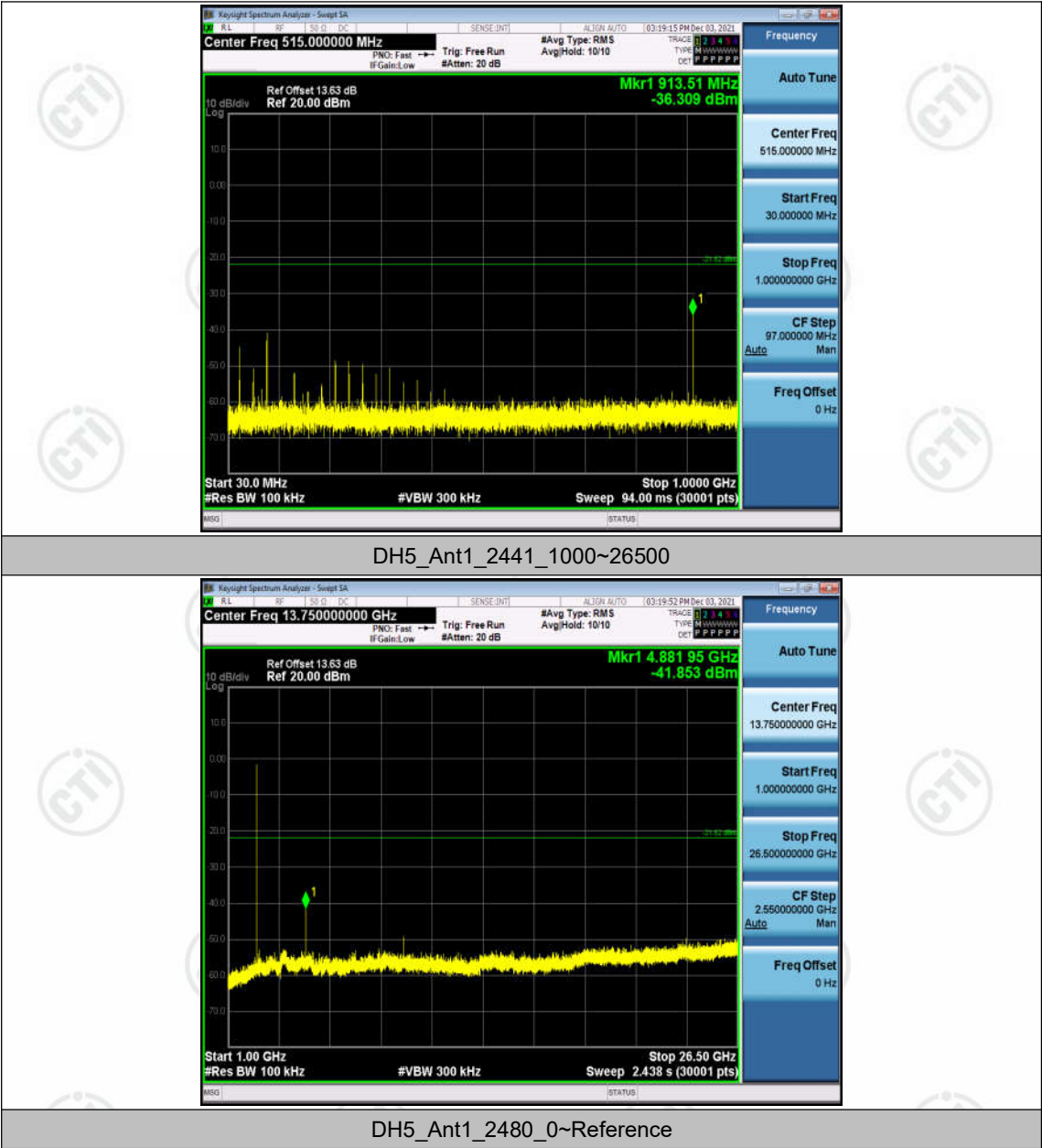
Test Result

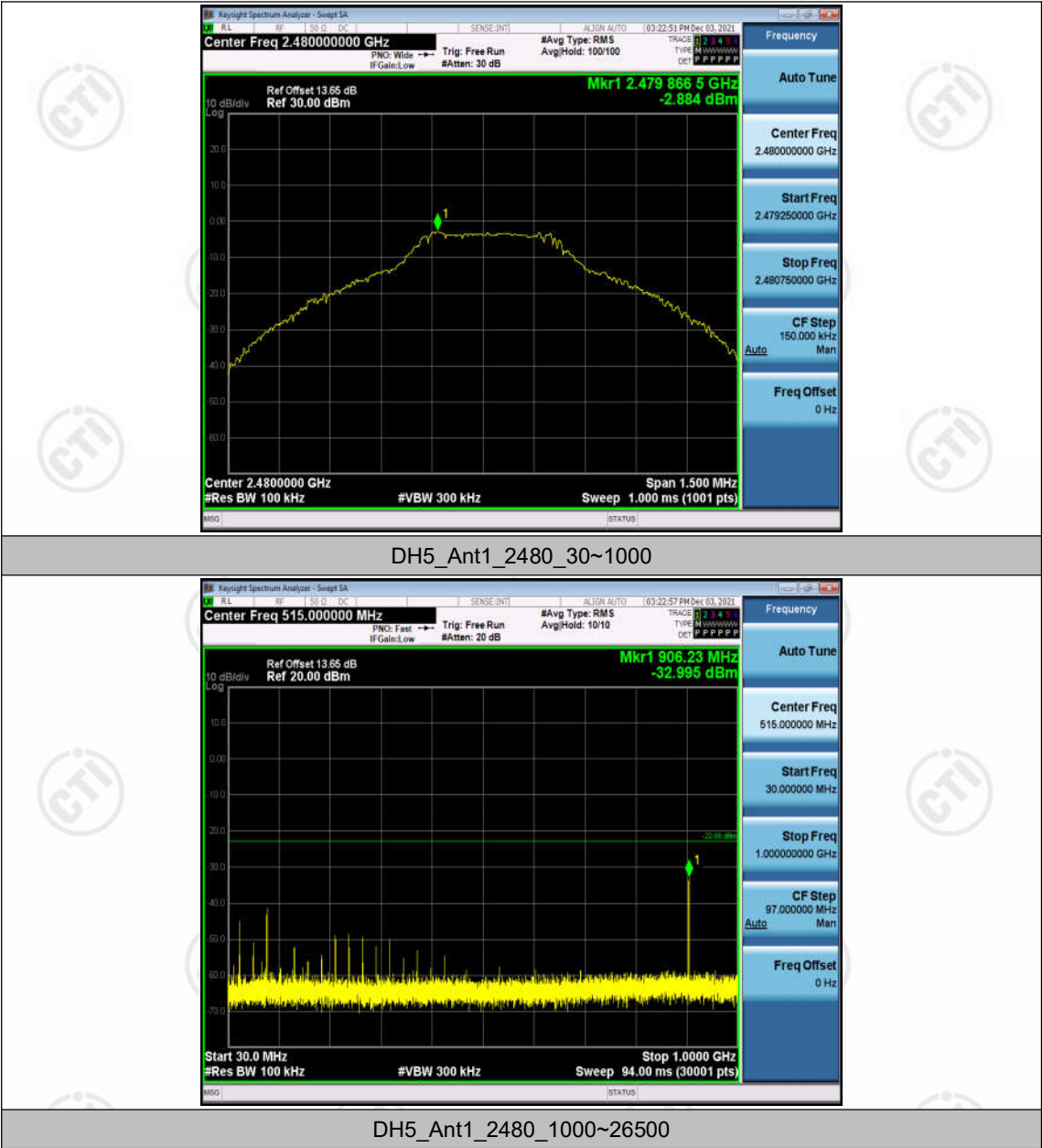
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.47	-0.47	---	PASS
			30~1000	30~1000	-41.526	<=-20.473	PASS
			1000~26500	1000~26500	-36.695	<=-20.473	PASS
		2441	Reference	-1.82	-1.82	---	PASS
			30~1000	30~1000	-36.309	<=-21.822	PASS
			1000~26500	1000~26500	-41.853	<=-21.822	PASS
		2480	Reference	-2.88	-2.88	---	PASS
			30~1000	30~1000	-32.995	<=-22.884	PASS
			1000~26500	1000~26500	-47.352	<=-22.884	PASS
2DH5	Ant1	2402	Reference	-1.66	-1.66	---	PASS
			30~1000	30~1000	-37.189	<=-21.658	PASS
			1000~26500	1000~26500	-41.44	<=-21.658	PASS
		2441	Reference	-1.55	-1.55	---	PASS
			30~1000	30~1000	-41.389	<=-21.549	PASS
			1000~26500	1000~26500	-45.236	<=-21.549	PASS
		2480	Reference	-3.05	-3.05	---	PASS
			30~1000	30~1000	-42.01	<=-23.054	PASS
			1000~26500	1000~26500	-49.145	<=-23.054	PASS
3DH5	Ant1	2402	Reference	-0.25	-0.25	---	PASS
			30~1000	30~1000	-33.065	<=-20.249	PASS
			1000~26500	1000~26500	-40.816	<=-20.249	PASS
		2441	Reference	-1.71	-1.71	---	PASS
			30~1000	30~1000	-39.372	<=-21.713	PASS
			1000~26500	1000~26500	-44.103	<=-21.713	PASS
		2480	Reference	-3.26	-3.26	---	PASS
			30~1000	30~1000	-37.381	<=-23.261	PASS
			1000~26500	1000~26500	-31.396	<=-23.261	PASS

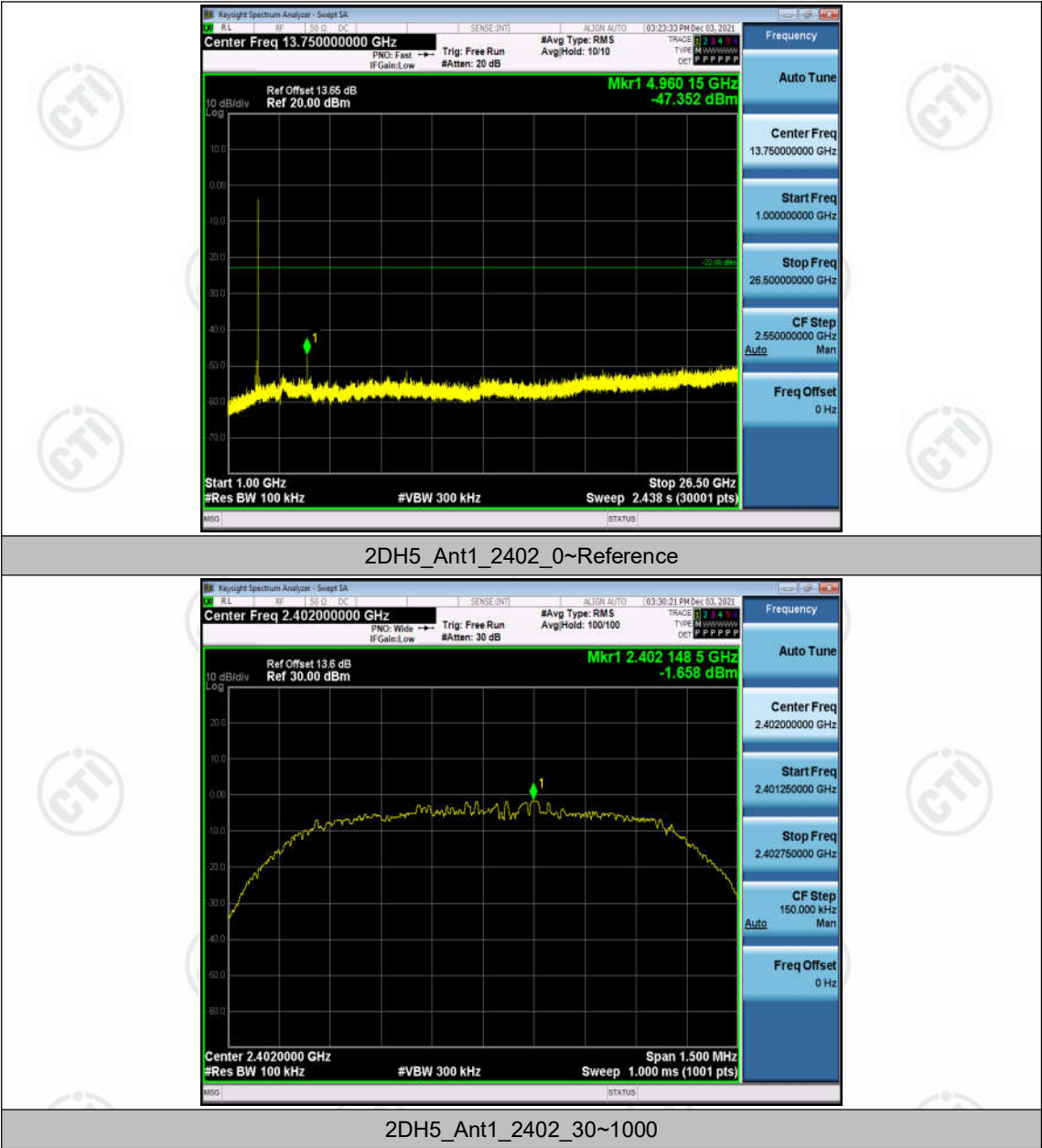
Test Graphs

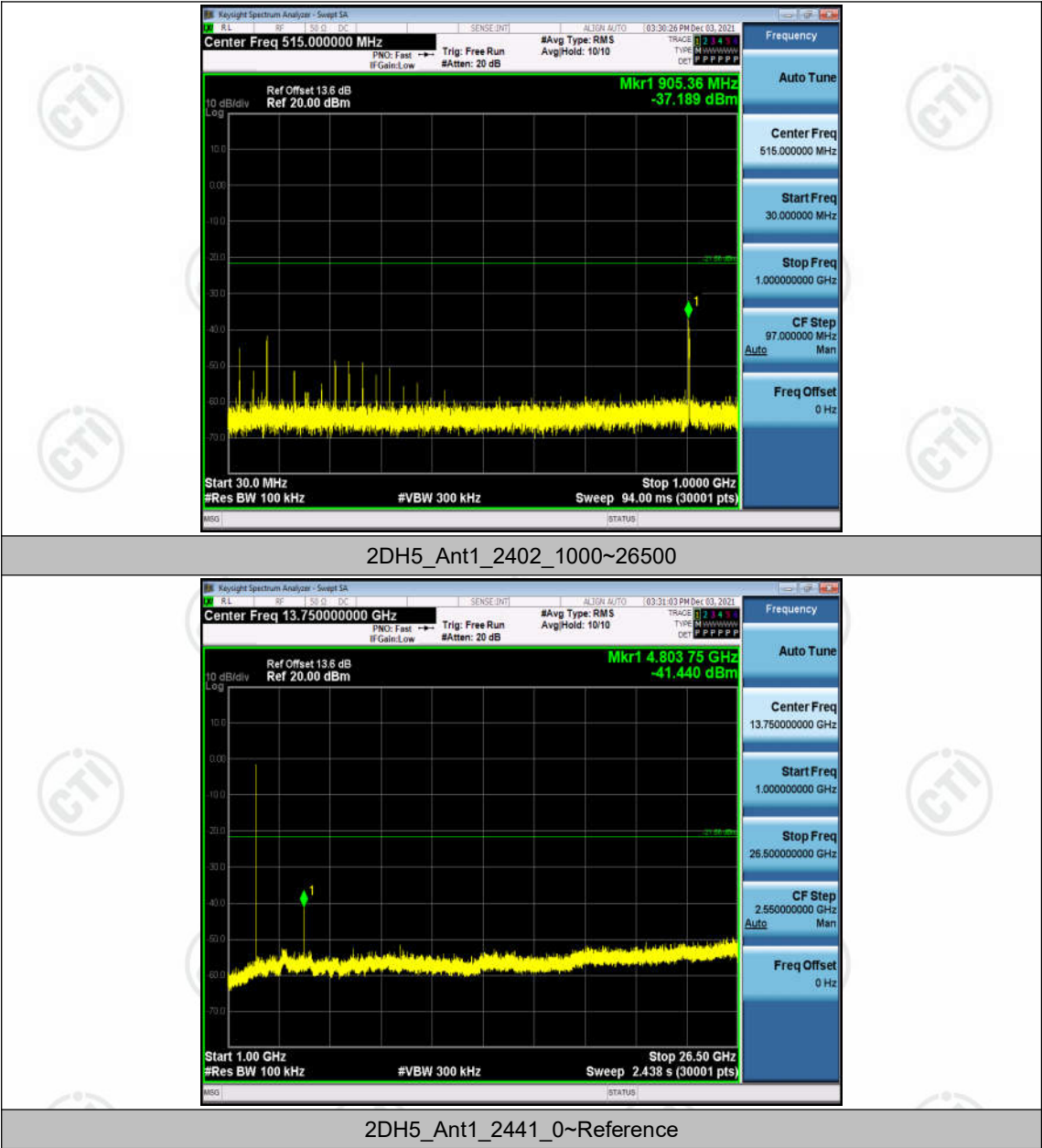


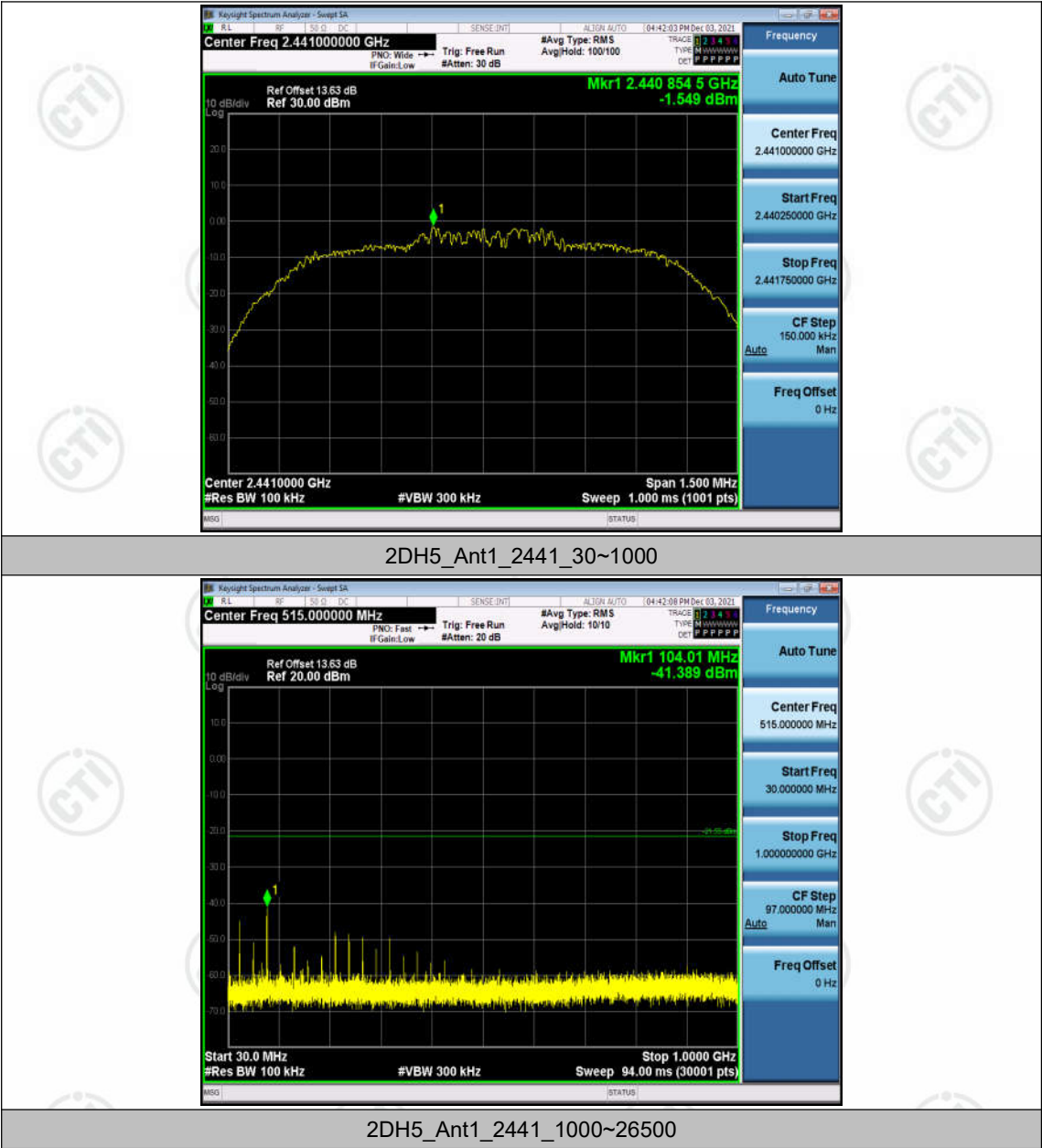


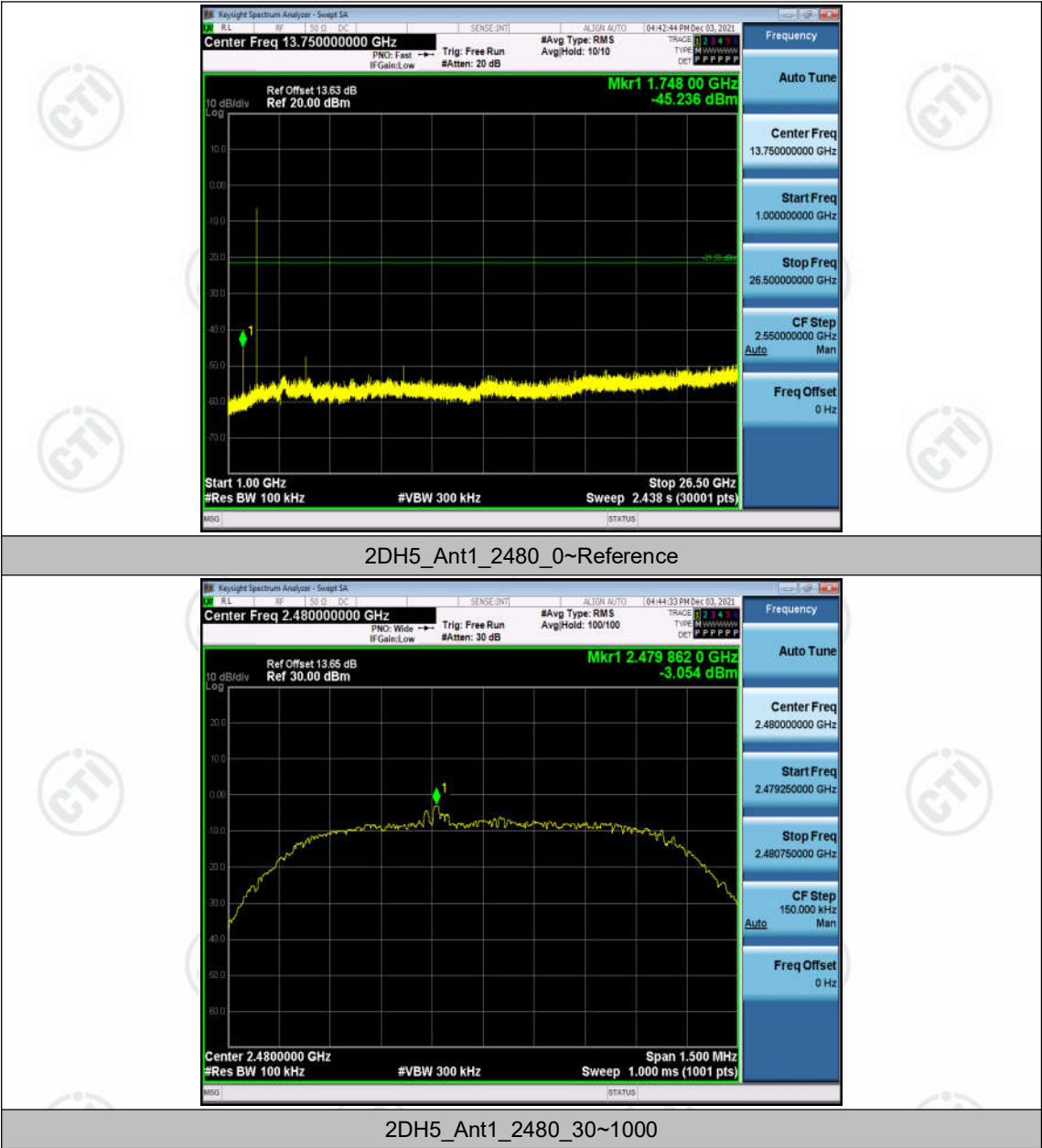


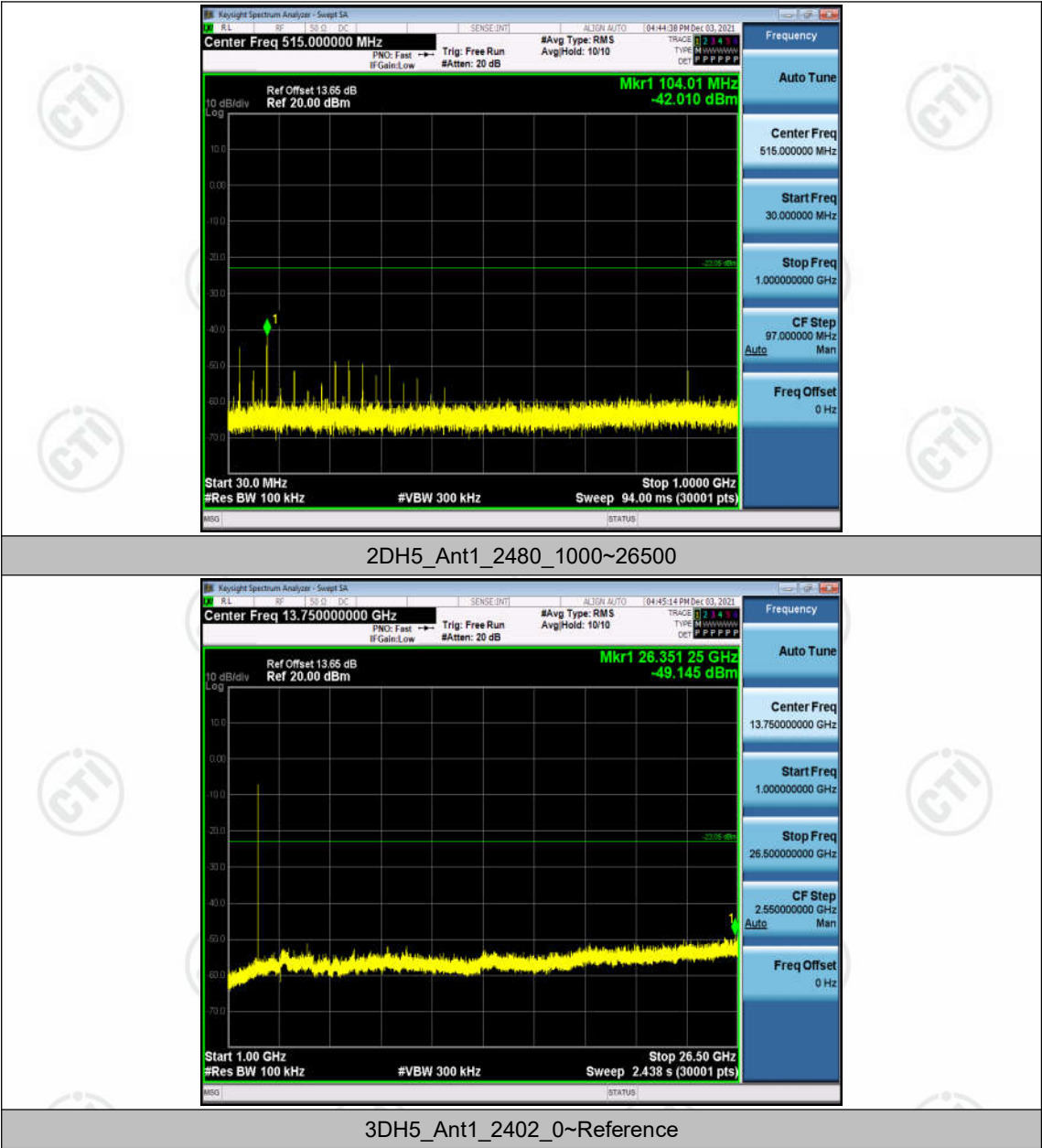


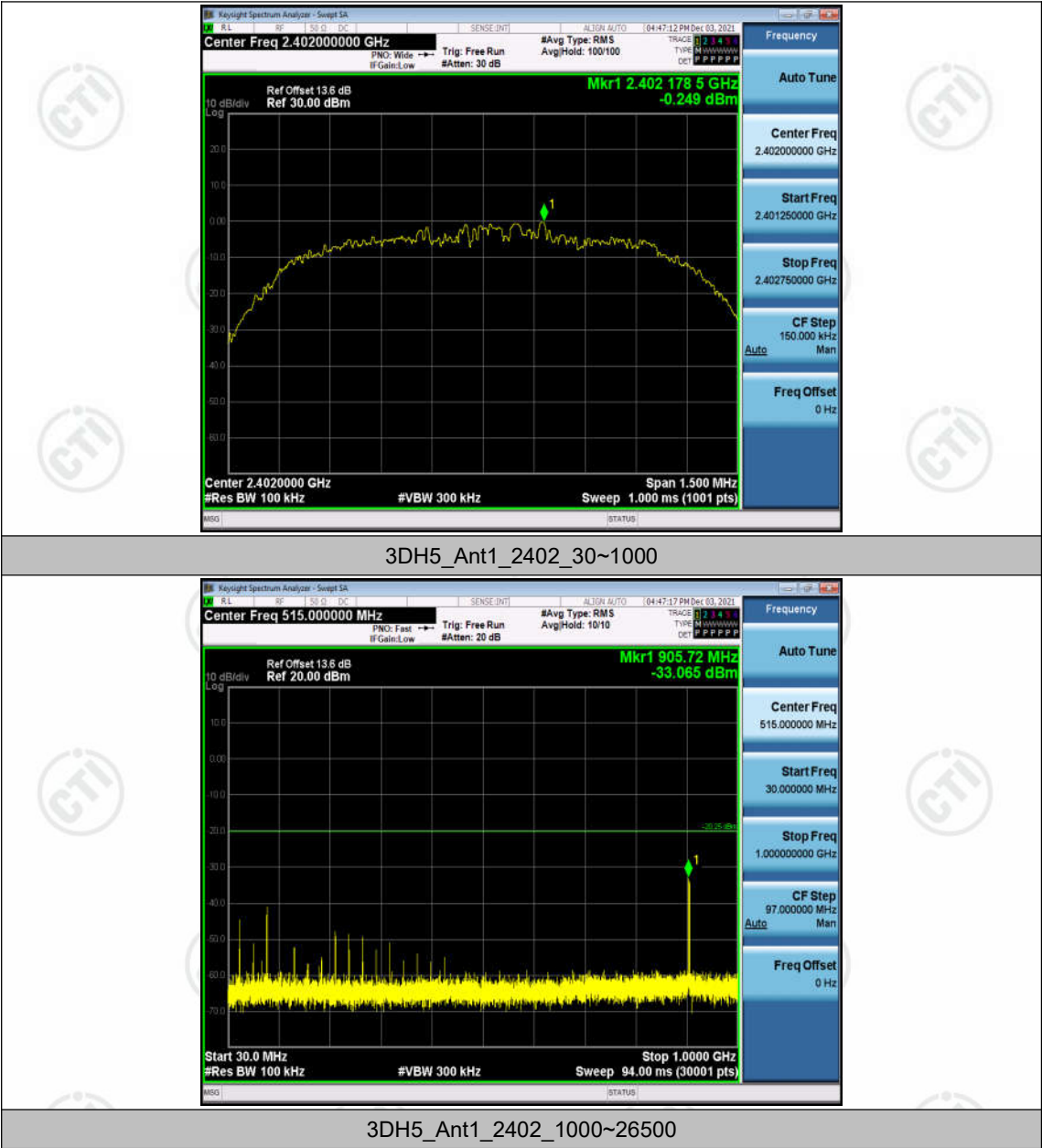


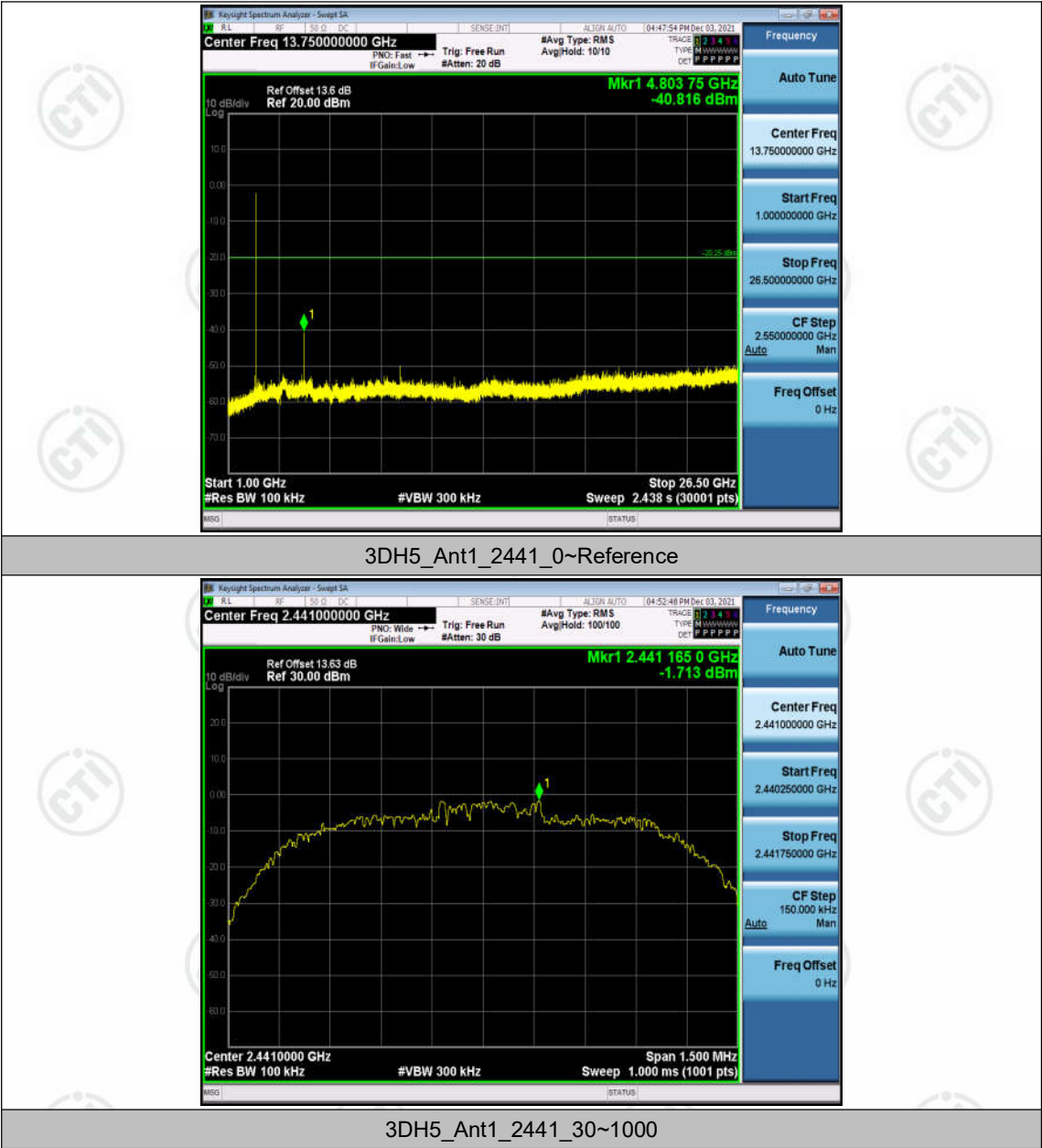


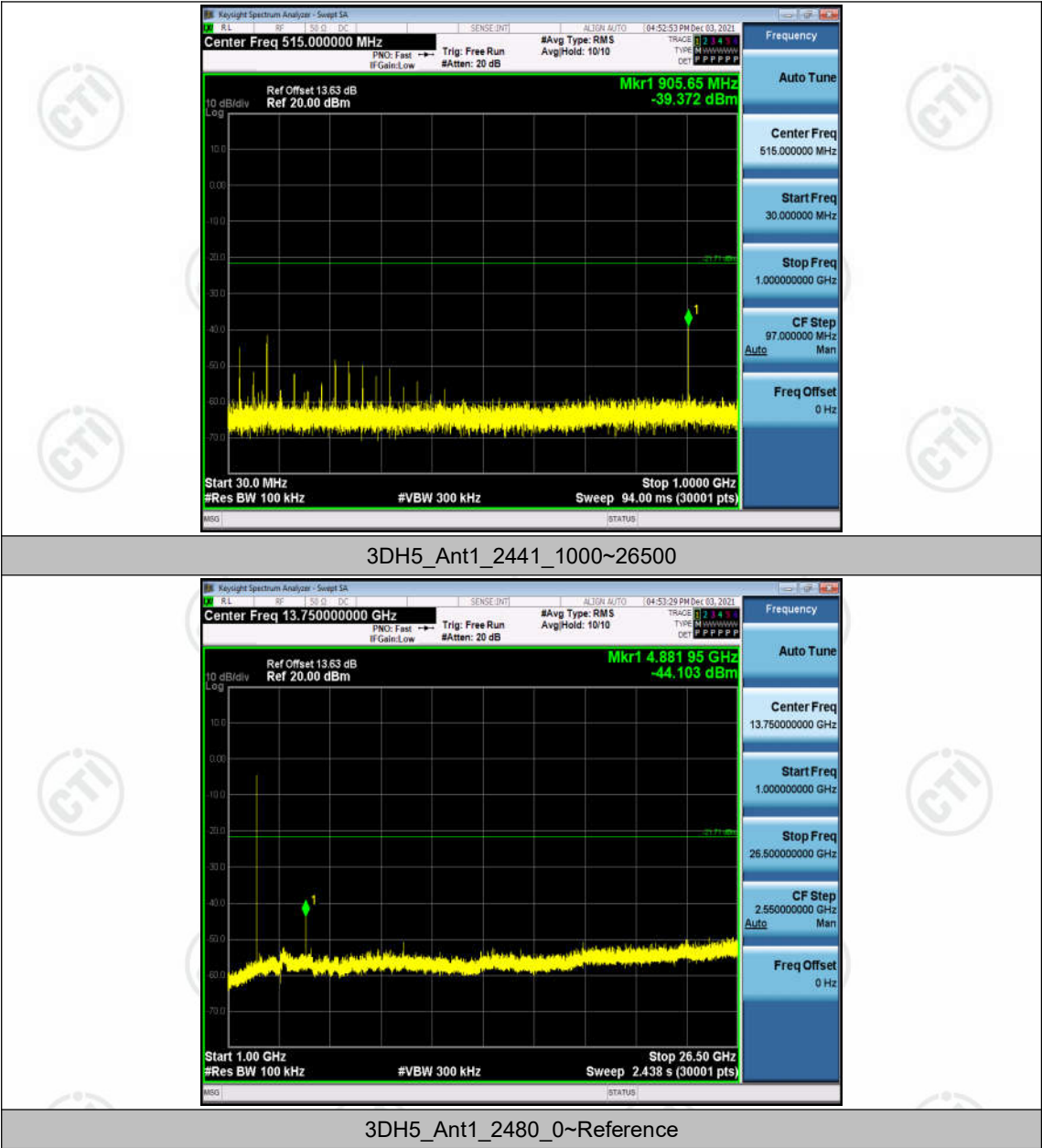


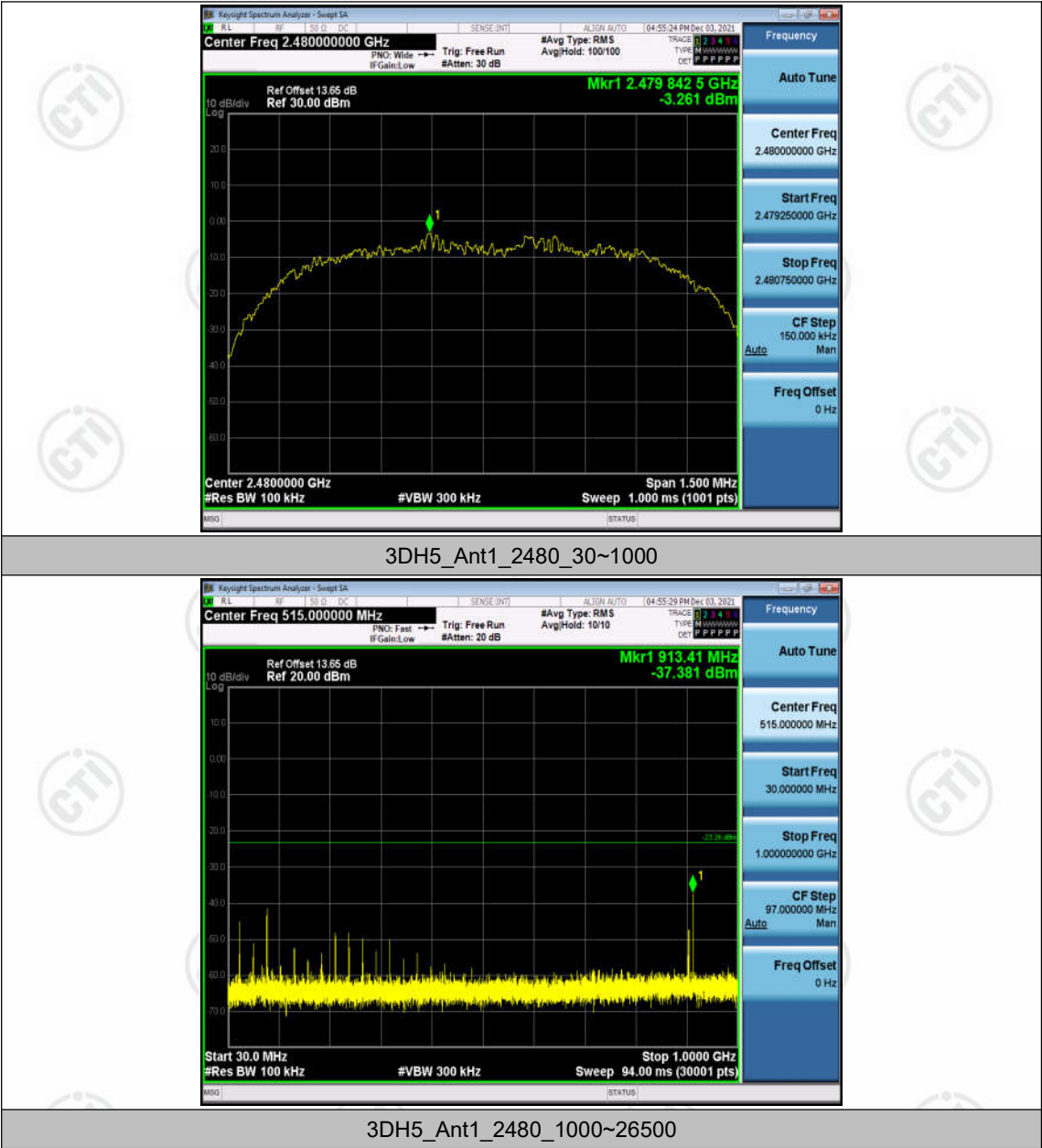


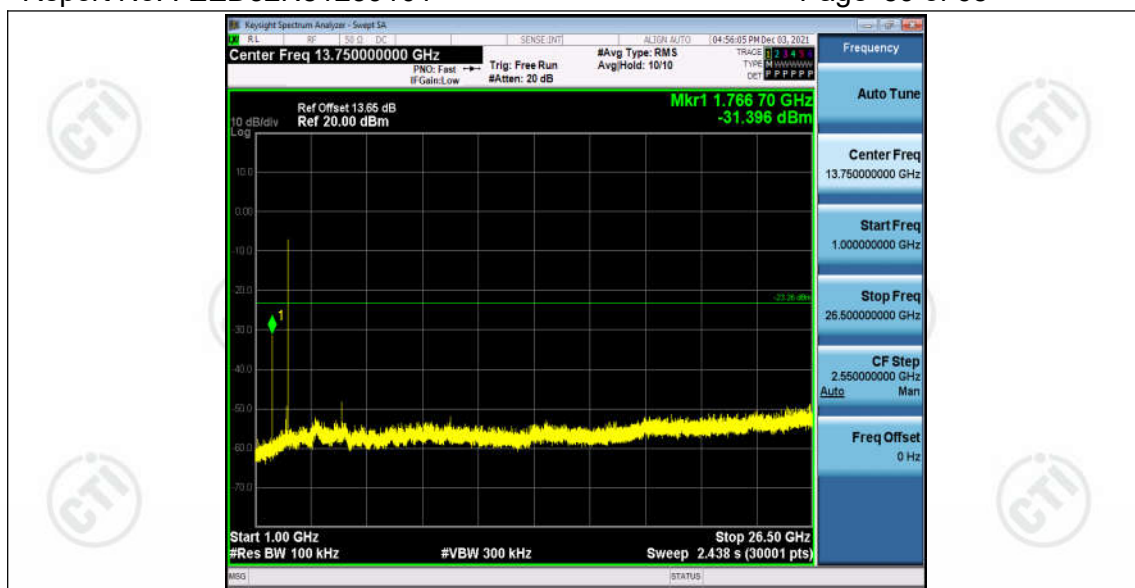










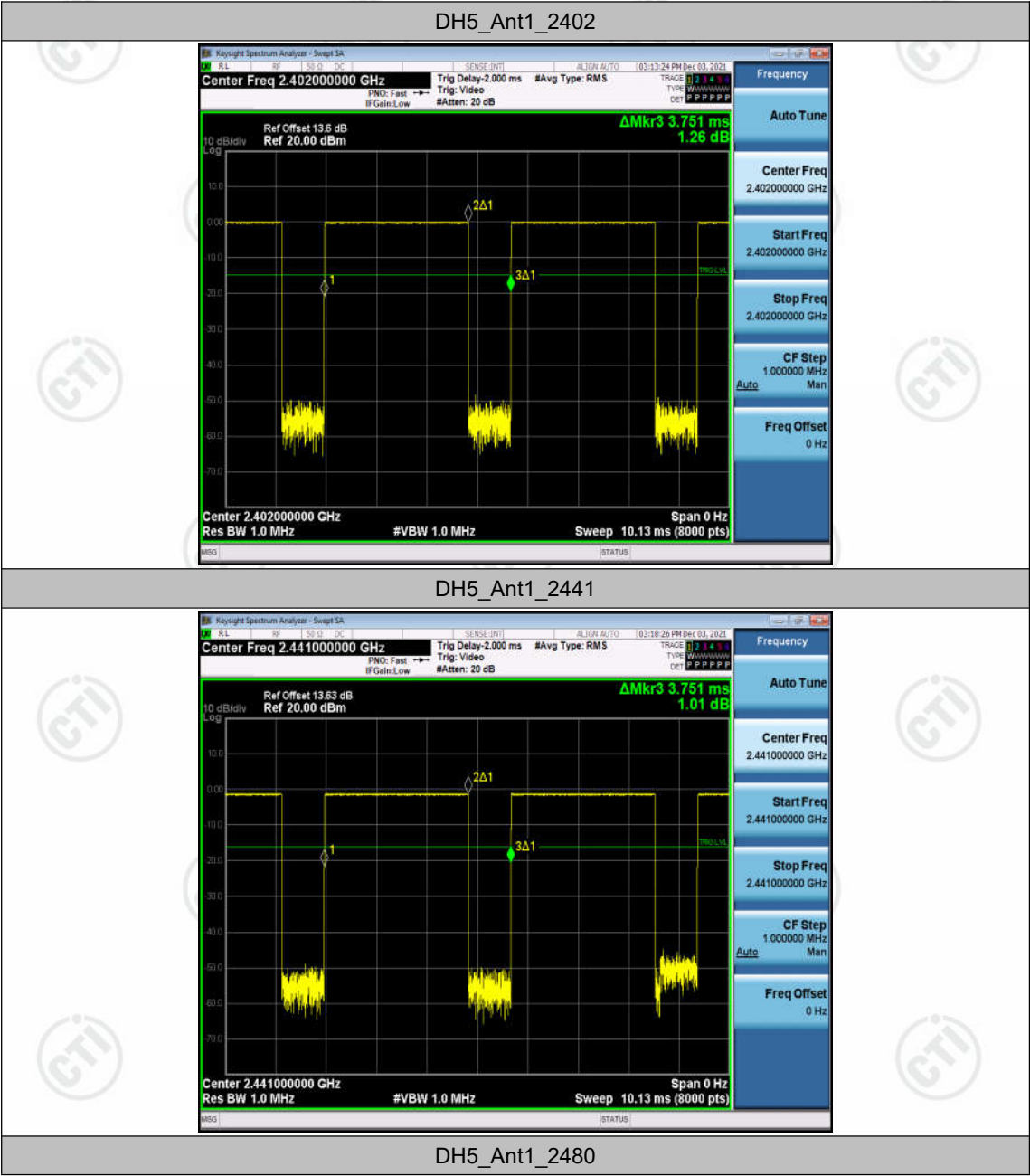


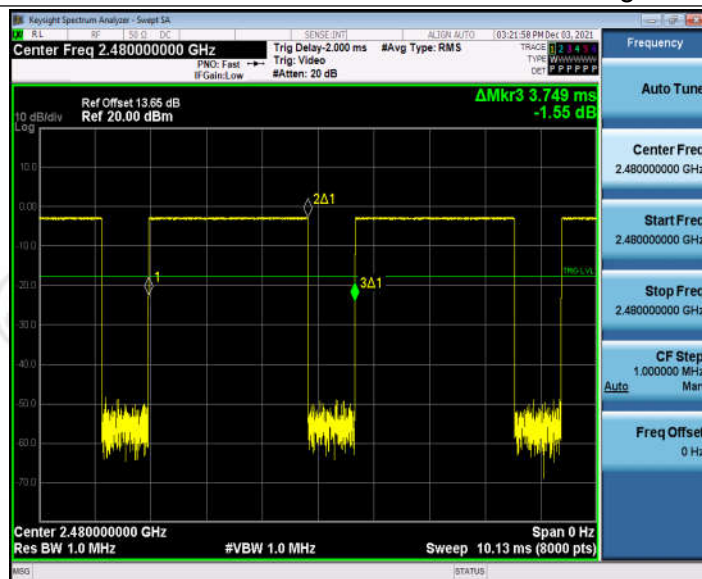
Appendix I: Duty Cycle

Test Result

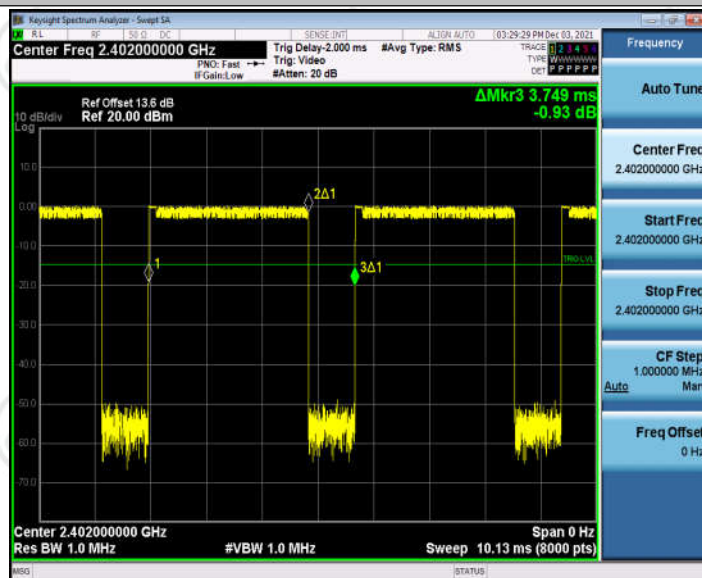
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.90	3.75	77.30	---	PASS
		2441	2.90	3.75	77.30	---	PASS
		2480	2.90	3.75	77.33	---	PASS
2DH5	Ant1	2402	2.90	3.75	77.47	---	PASS
		2441	2.90	3.75	77.47	---	PASS
		2480	2.91	3.75	77.47	---	PASS
3DH5	Ant1	2402	2.91	3.75	77.54	---	PASS
		2441	2.91	3.75	77.57	---	PASS
		2480	2.91	3.75	77.57	---	PASS

Test Graphs

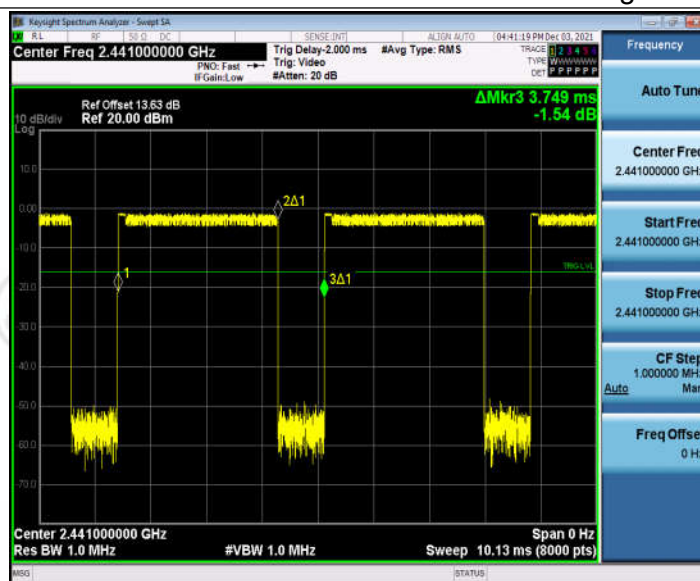




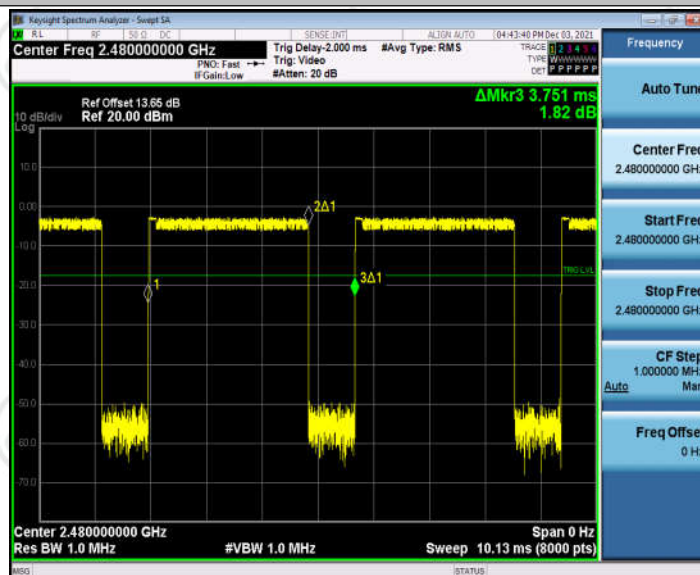
2DH5_Ant1_2402



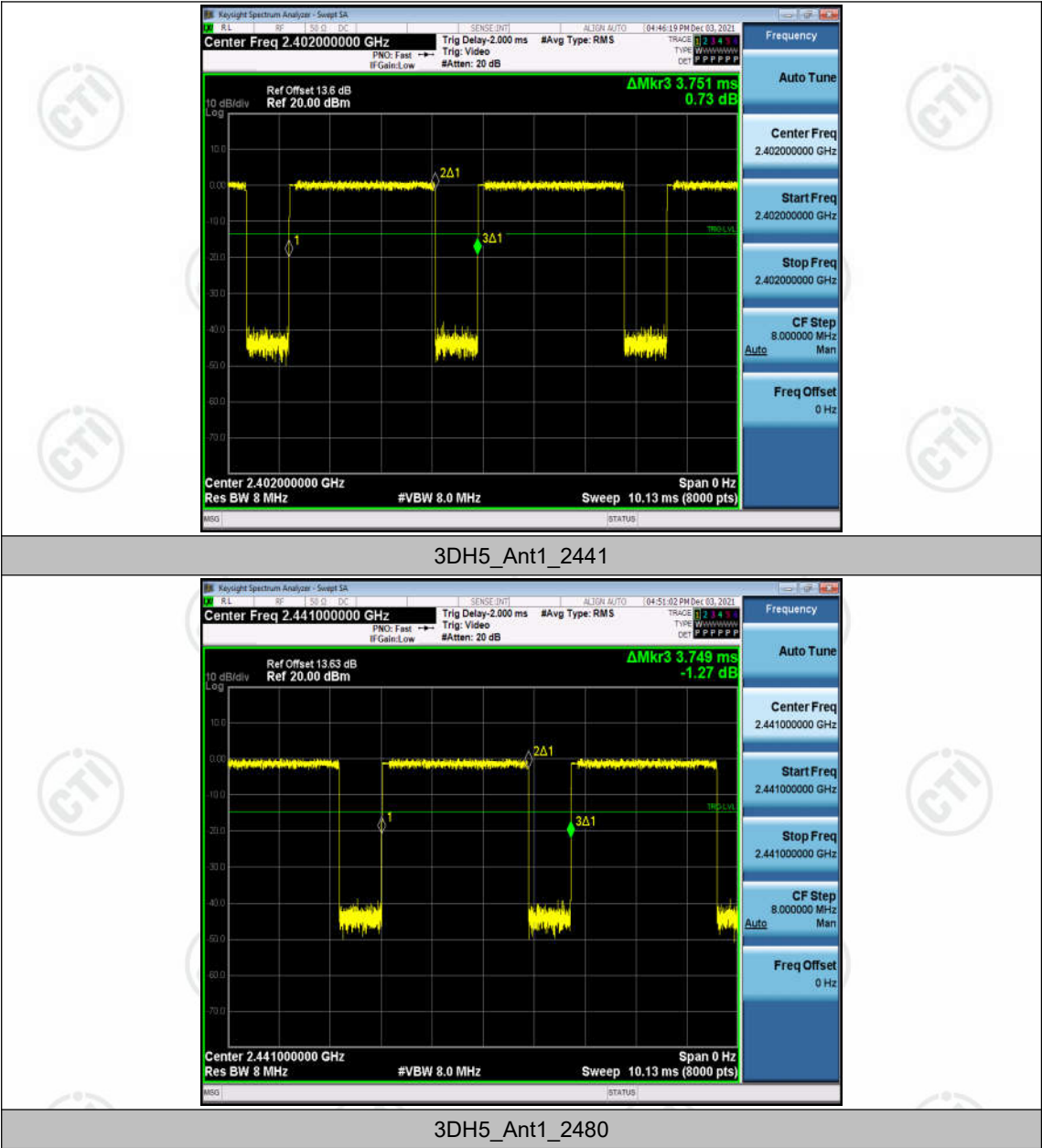
2DH5_Ant1_2441

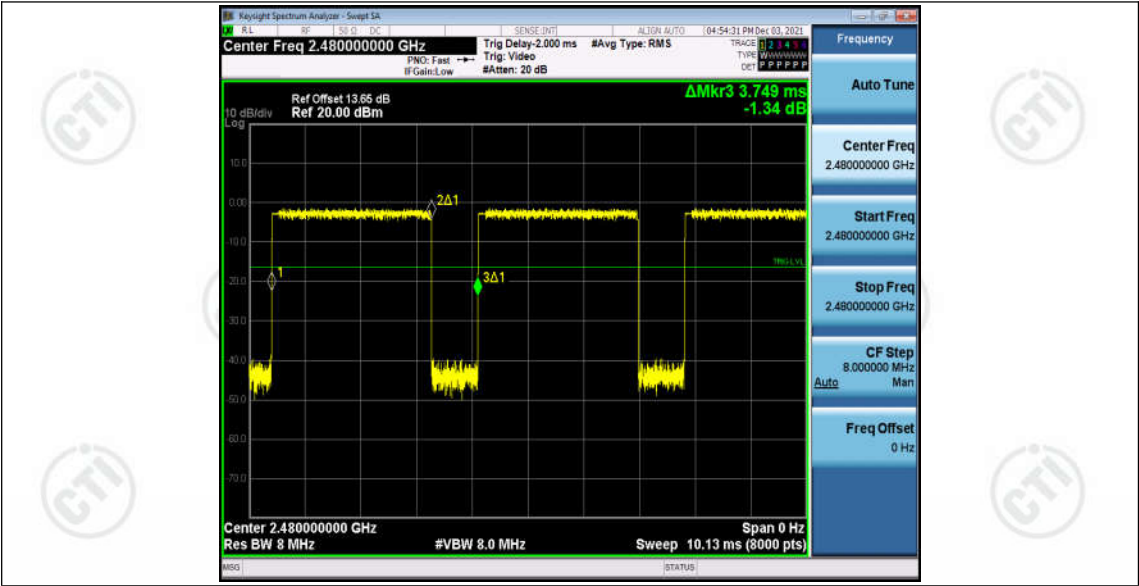


2DH5 Ant1 2480



3DH5 Ant1 2402





*** End of Report ***