

Appendix: Bluetooth Classic

Contents

AppendixA: 20dBEmission Bandwidth..... 3

 Test Result..... 3

 Test Graphs.....4

AppendixB: 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

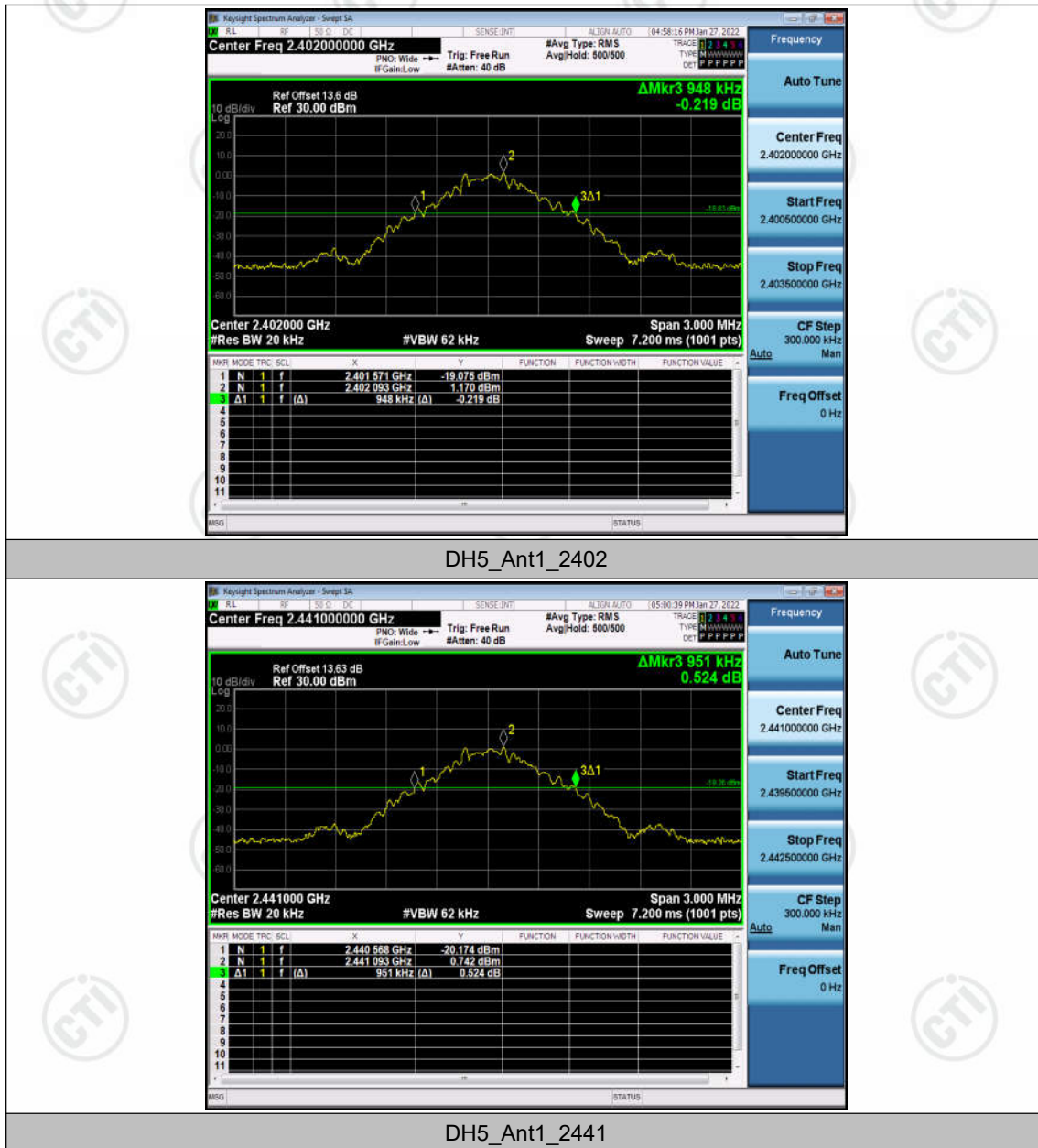
 Test Graphs..... 63

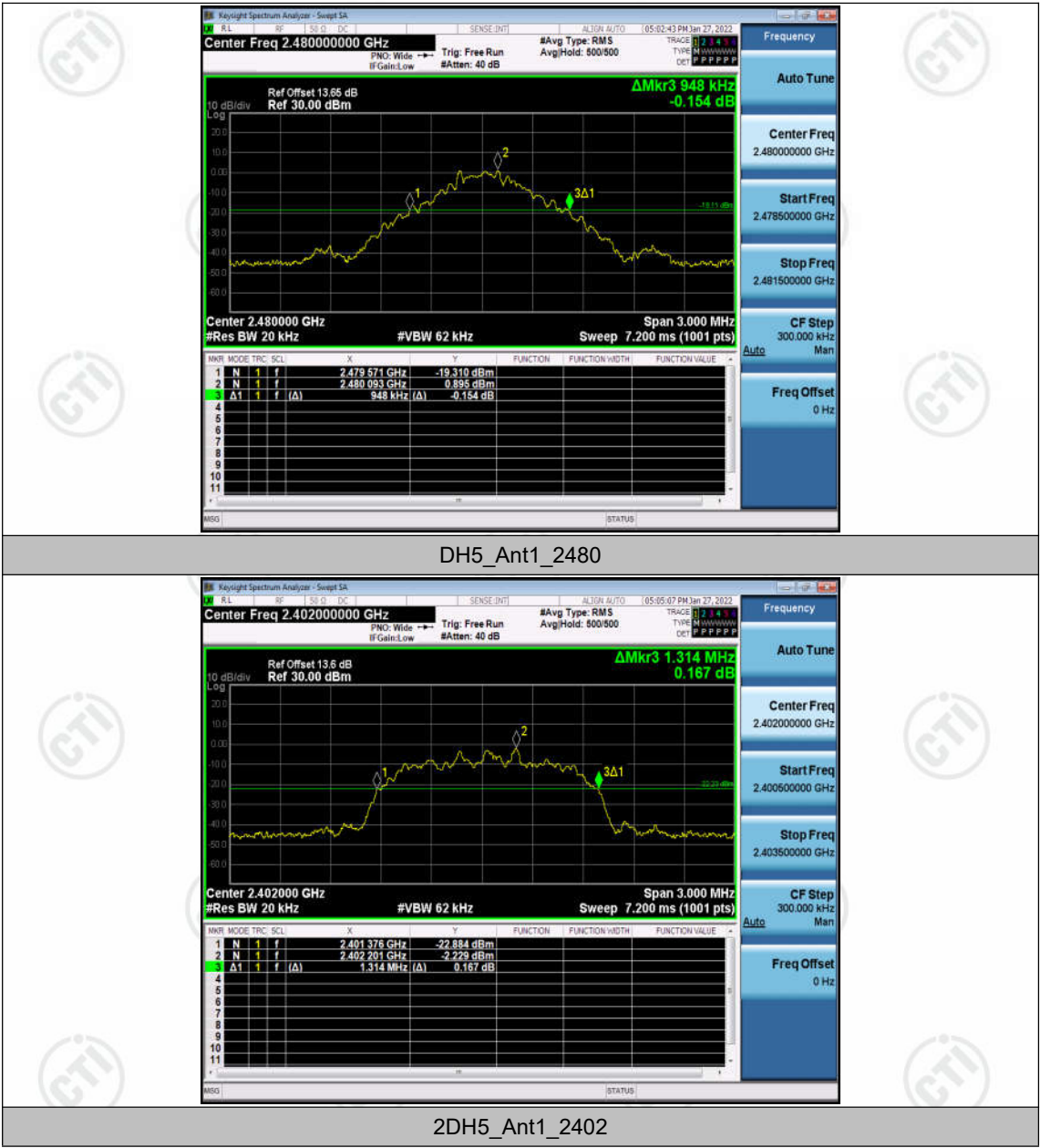
AppendixA: 20dBEmission Bandwidth

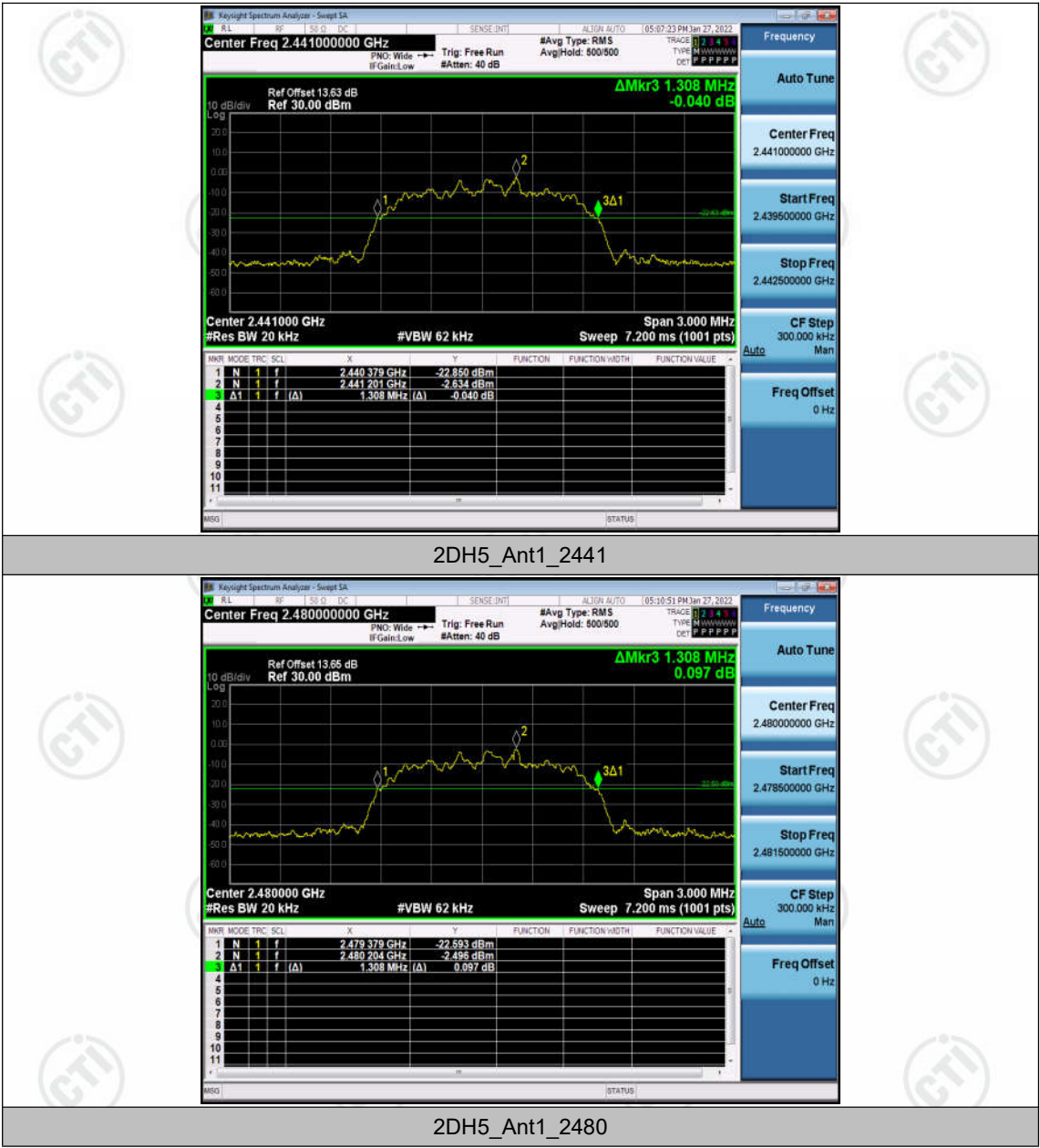
Test Result

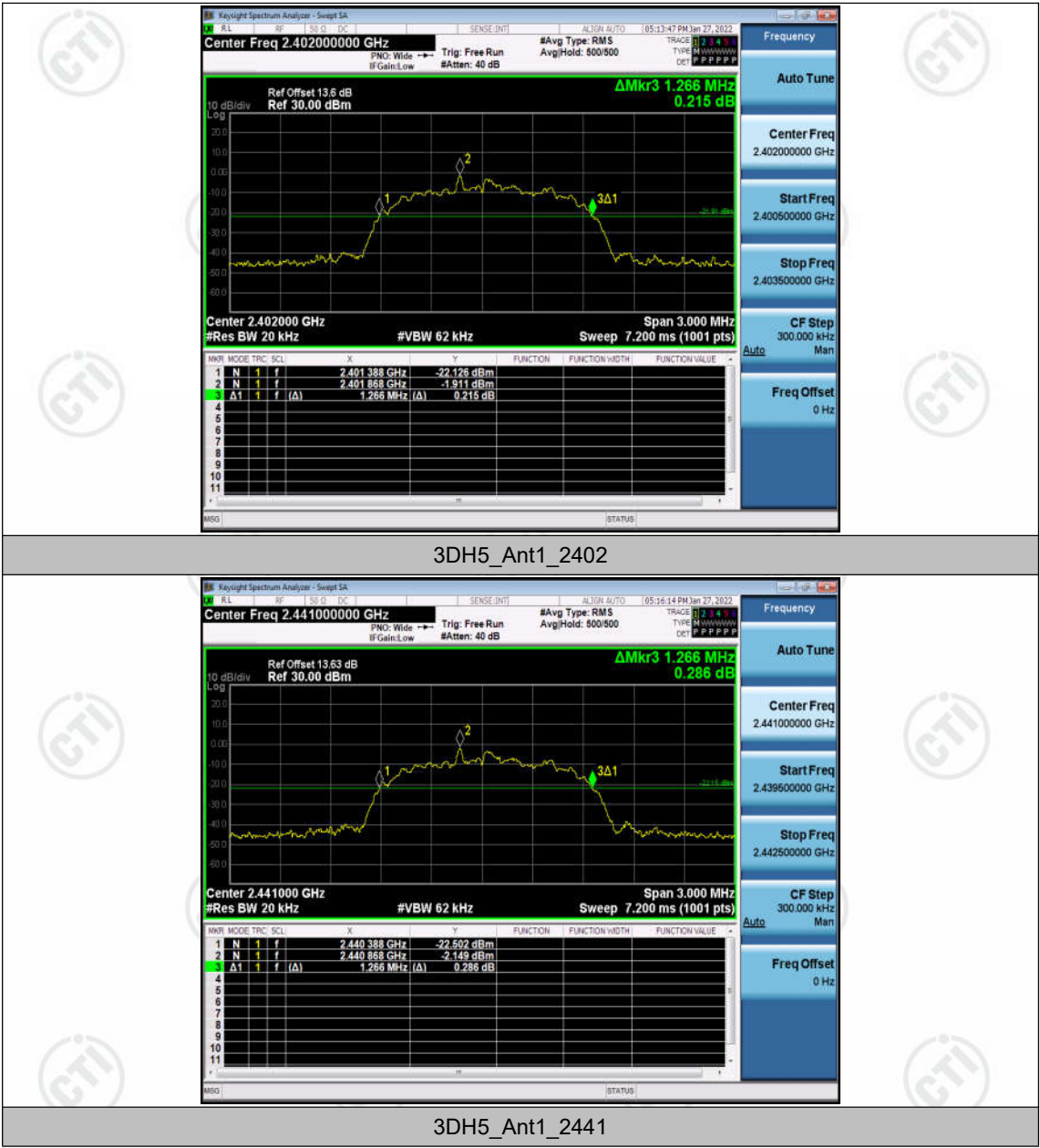
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.571	2402.519	---	PASS
		2441	0.951	2440.568	2441.519	---	PASS
		2480	0.948	2479.571	2480.519	---	PASS
2DH5	Ant1	2402	1.314	2401.376	2402.690	---	PASS
		2441	1.308	2440.379	2441.687	---	PASS
		2480	1.308	2479.379	2480.687	---	PASS
3DH5	Ant1	2402	1.266	2401.388	2402.654	---	PASS
		2441	1.266	2440.388	2441.654	---	PASS
		2480	1.266	2479.388	2480.654	---	PASS

Test Graphs









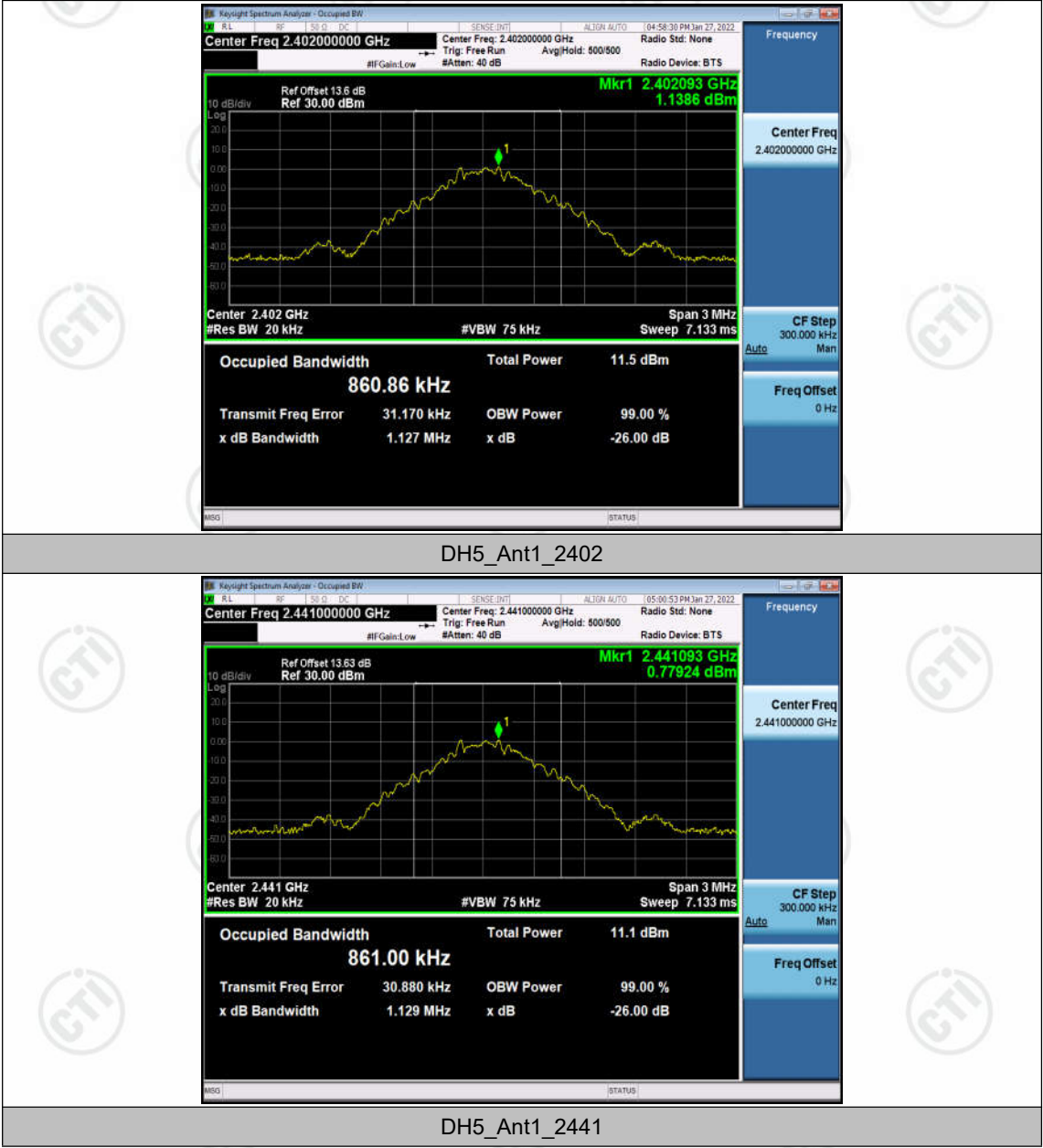


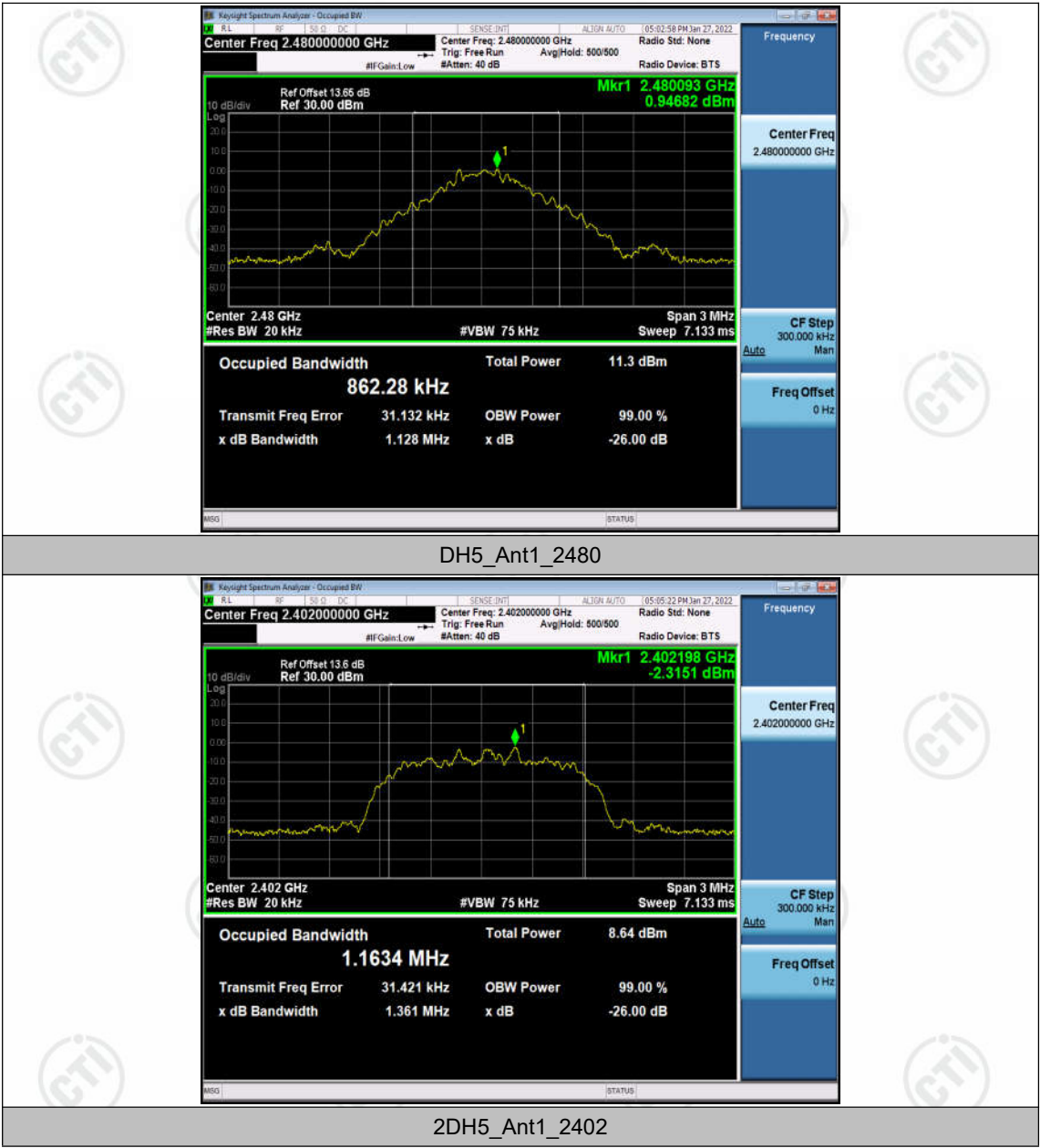
AppendixB: Occupied Channel Bandwidth

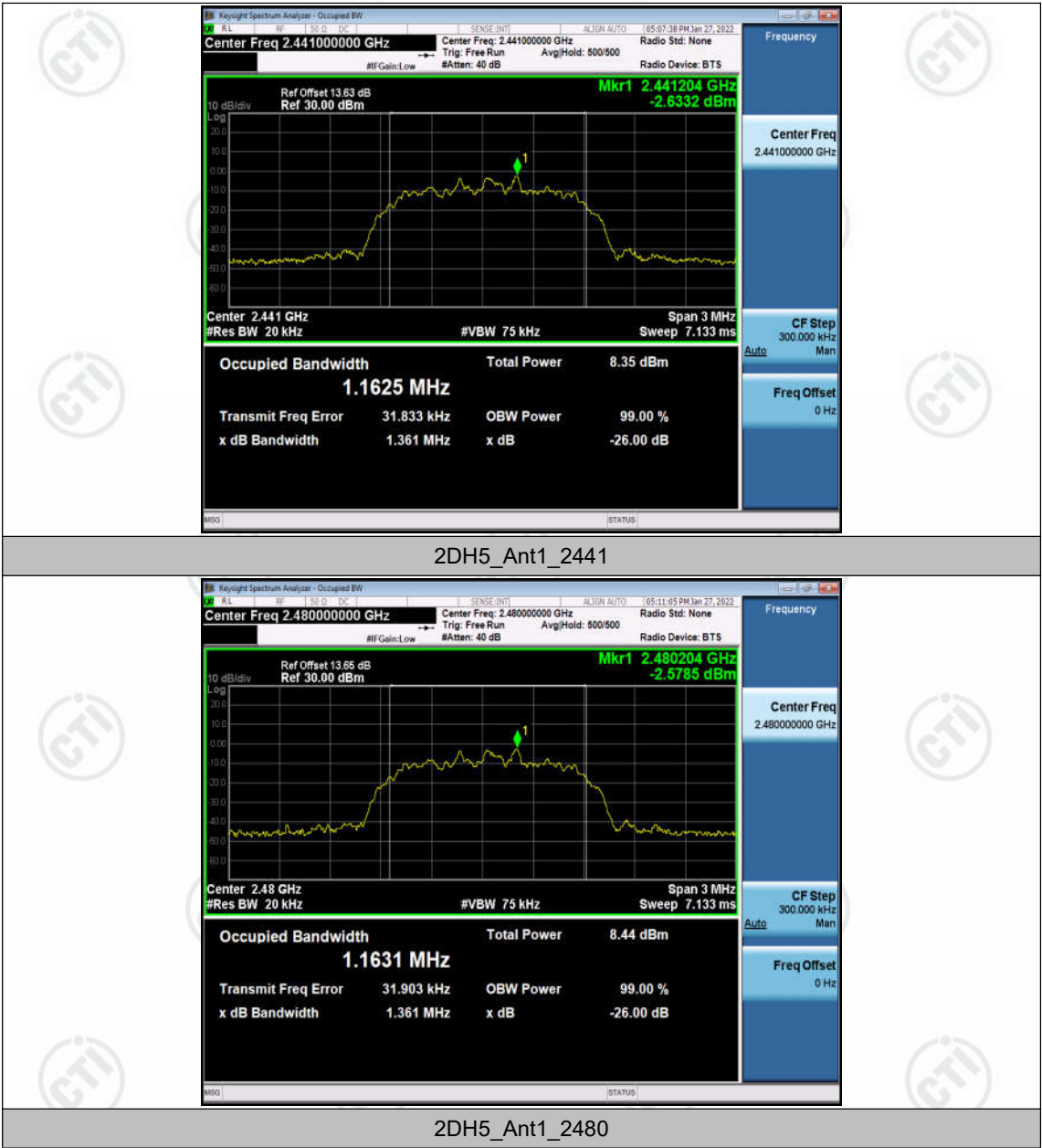
Test Result

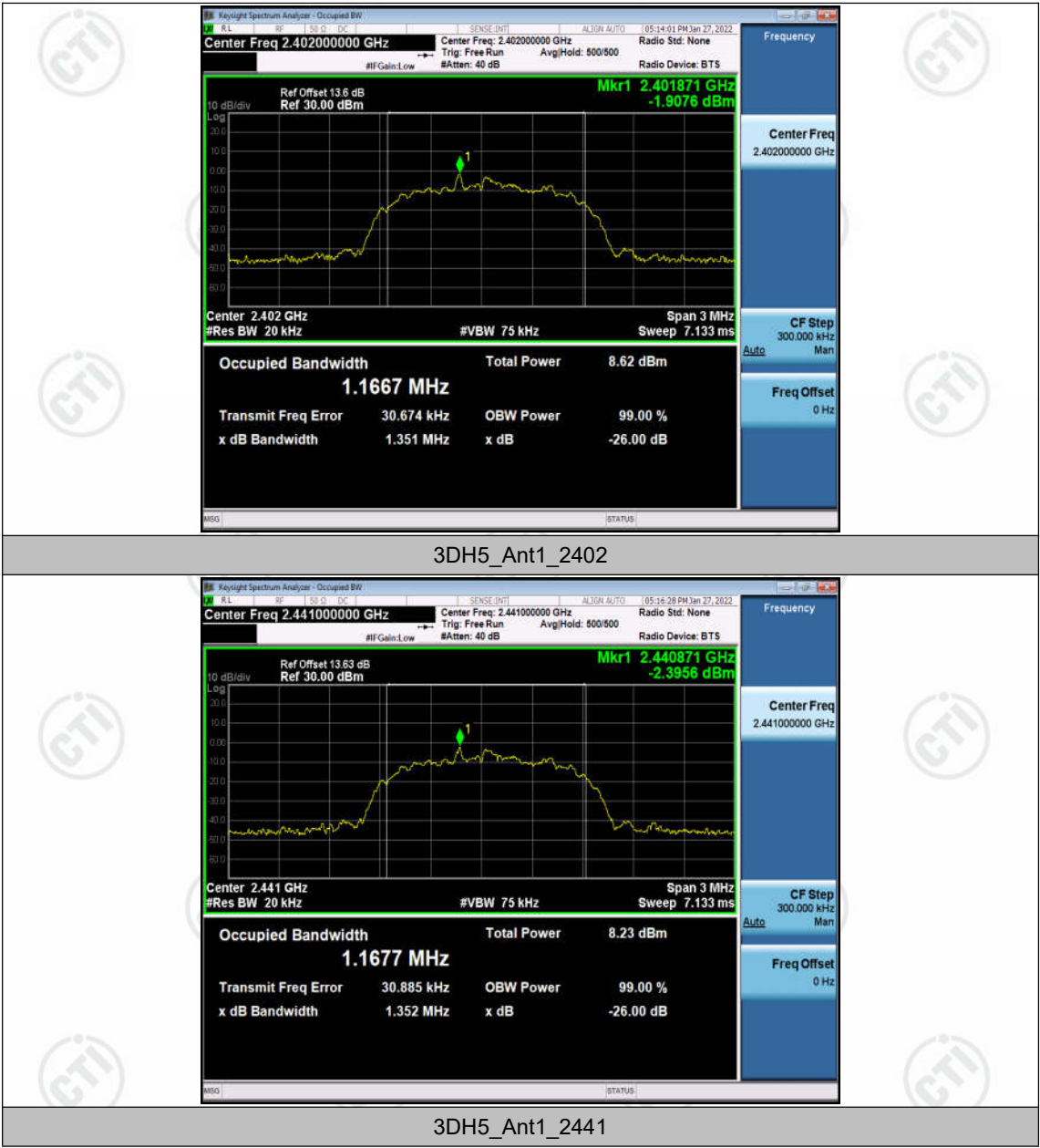
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86086	2401.601	2402.462	---	PASS
		2441	0.86100	2440.600	2441.461	---	PASS
		2480	0.86228	2479.600	2480.462	---	PASS
2DH5	Ant1	2402	1.1634	2401.450	2402.613	---	PASS
		2441	1.1625	2440.451	2441.613	---	PASS
		2480	1.1631	2479.450	2480.613	---	PASS
3DH5	Ant1	2402	1.1667	2401.447	2402.614	---	PASS
		2441	1.1677	2440.447	2441.615	---	PASS
		2480	1.1666	2479.448	2480.615	---	PASS

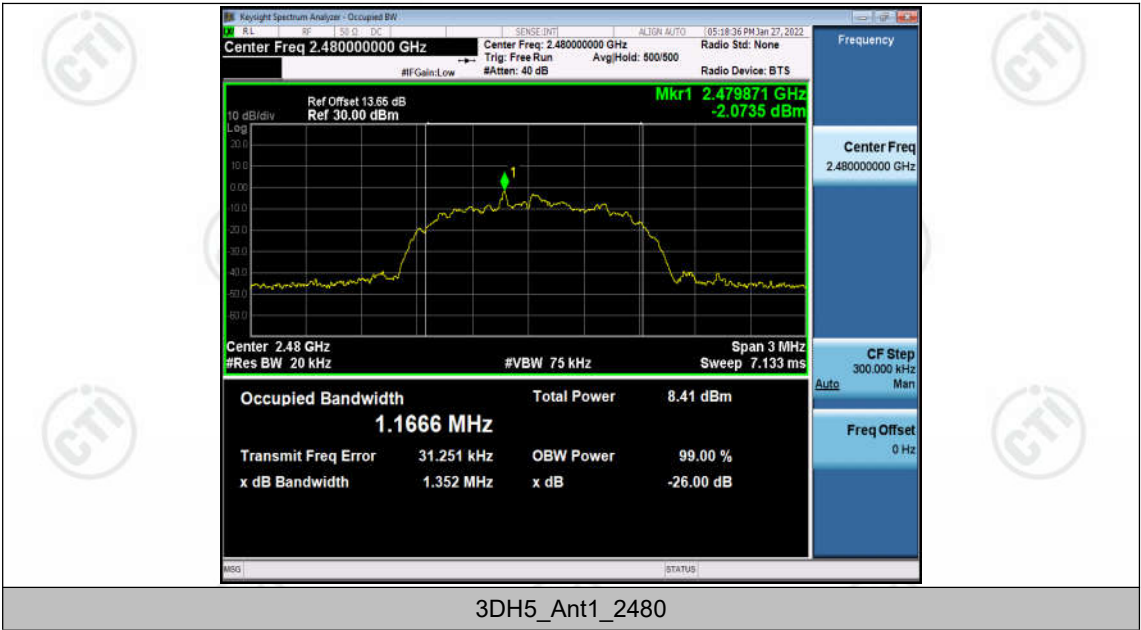
Test Graphs











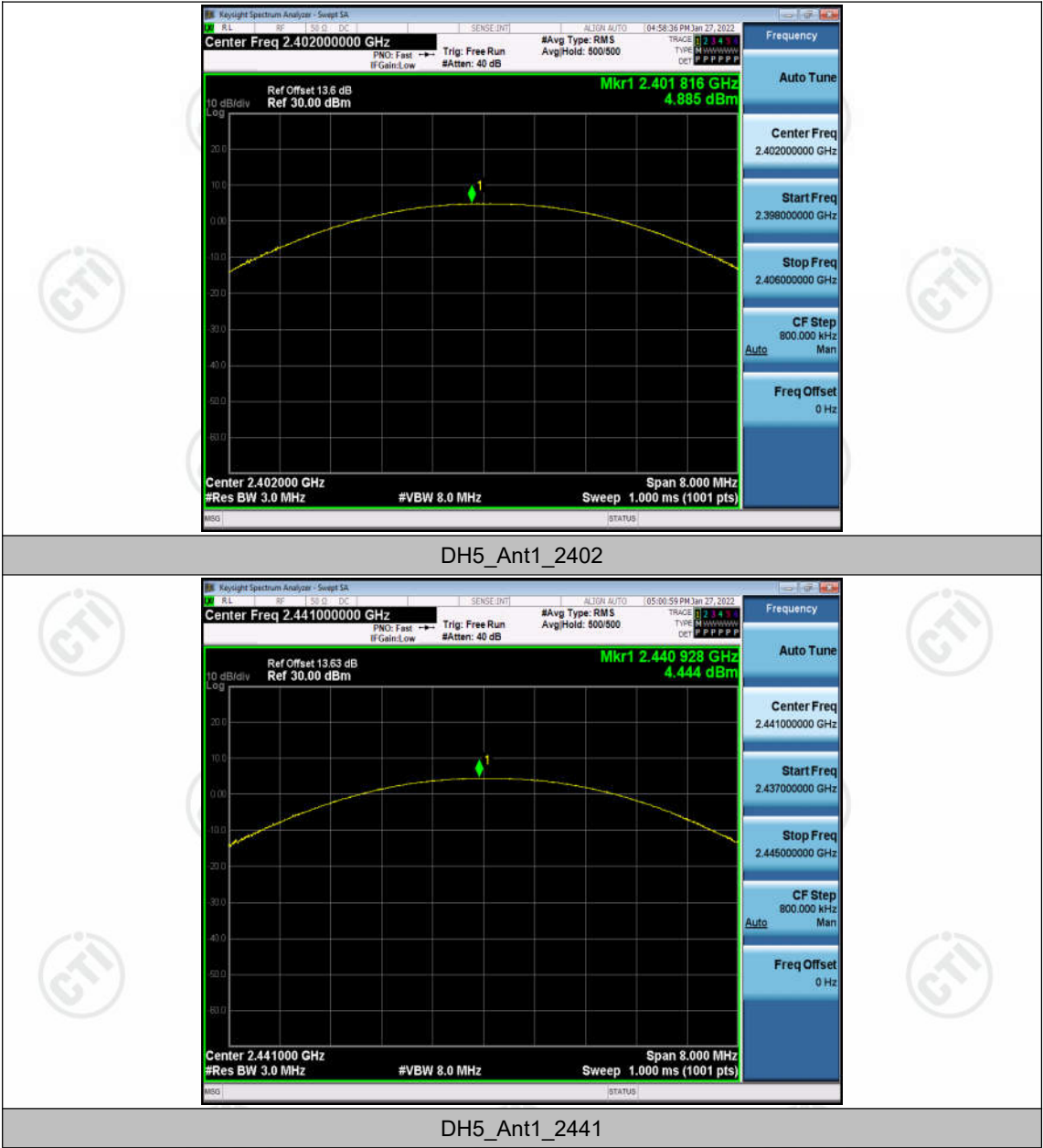
3DH5_Ant1_2480

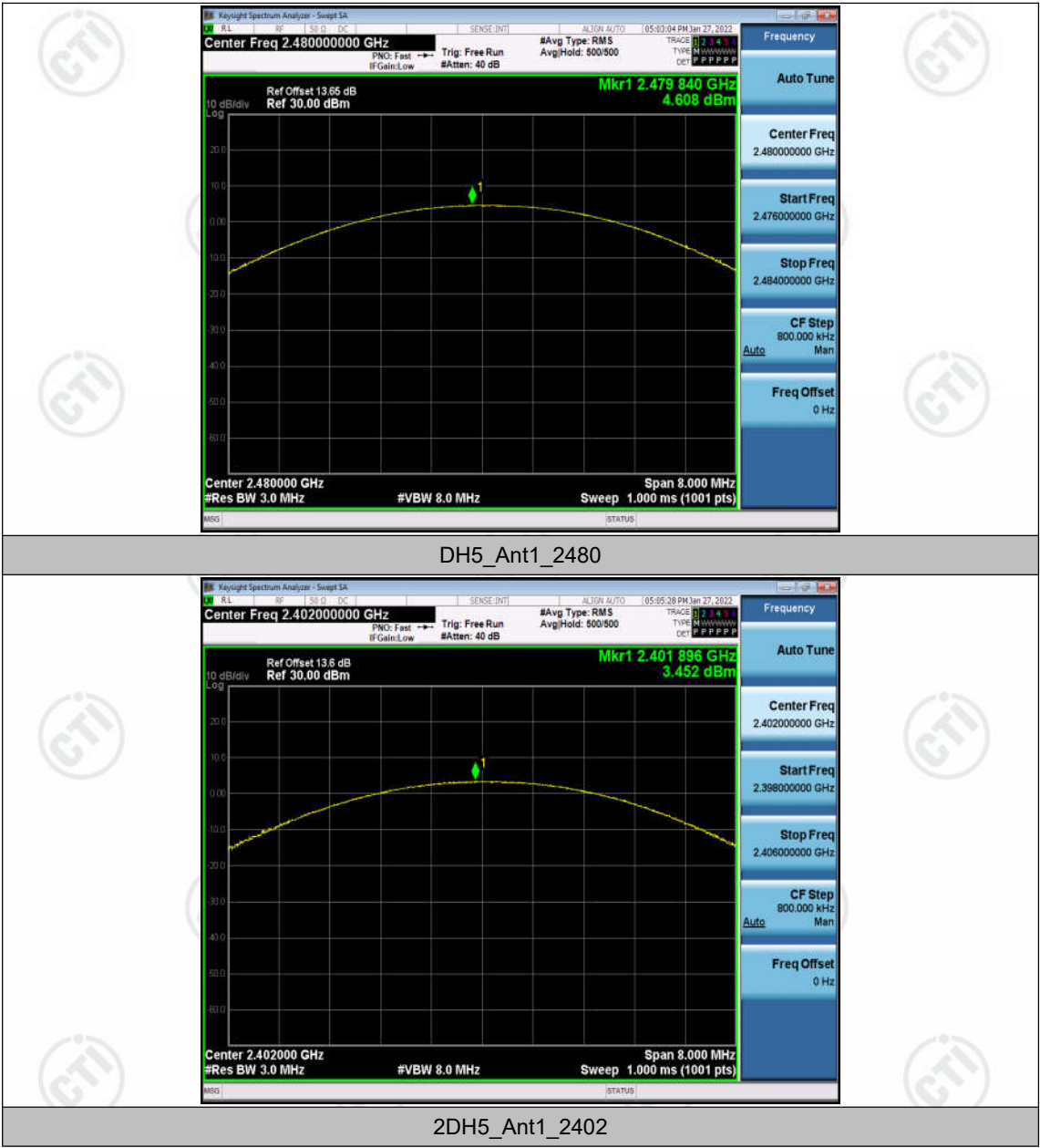
Appendix C: Maximum conducted output power

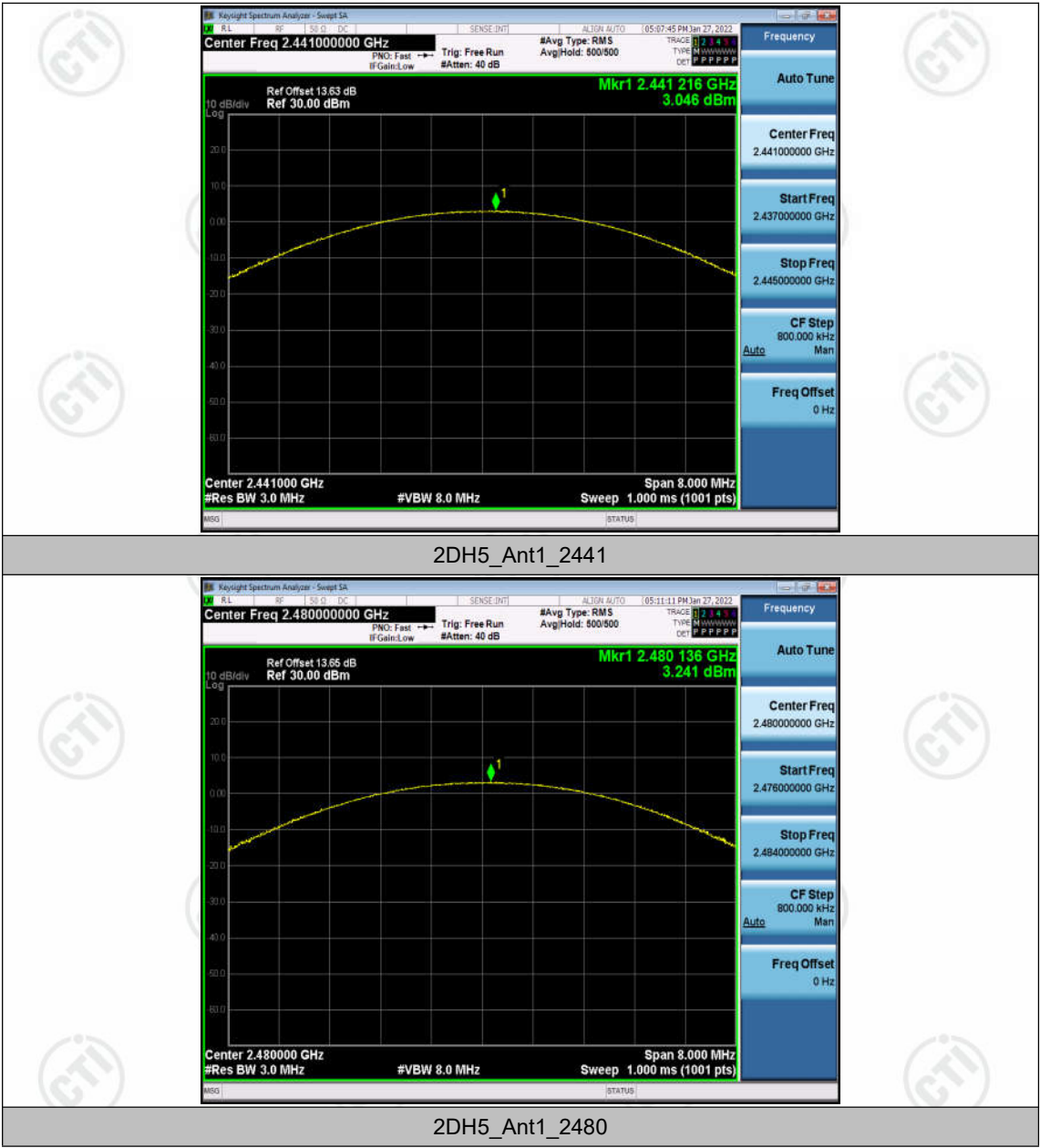
Test Result

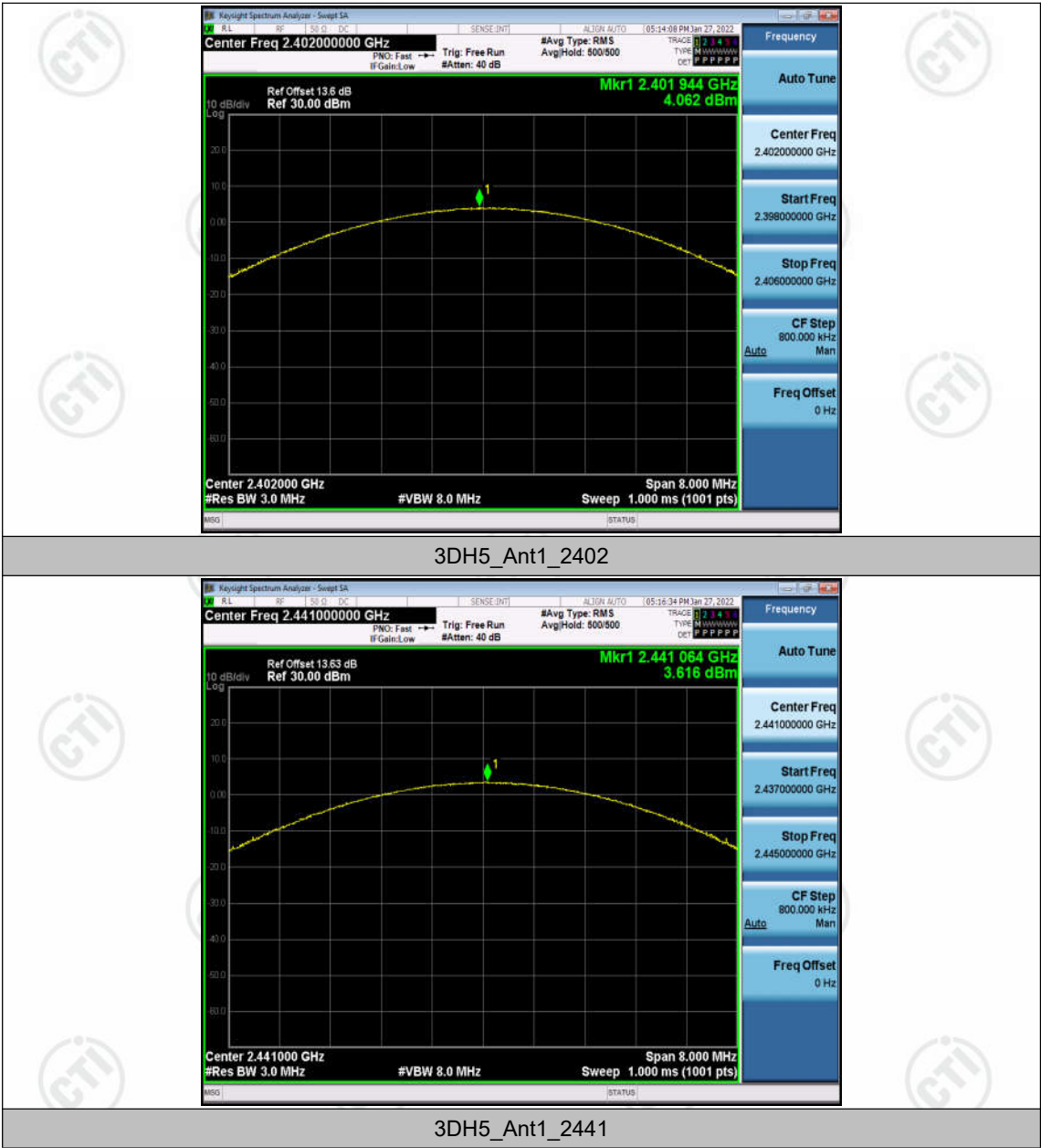
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	4.89	<=20.97	PASS
		2441	4.44	<=20.97	PASS
		2480	4.61	<=20.97	PASS
2DH5	Ant1	2402	3.45	<=20.97	PASS
		2441	3.05	<=20.97	PASS
		2480	3.24	<=20.97	PASS
3DH5	Ant1	2402	4.06	<=20.97	PASS
		2441	3.62	<=20.97	PASS
		2480	3.74	<=20.97	PASS

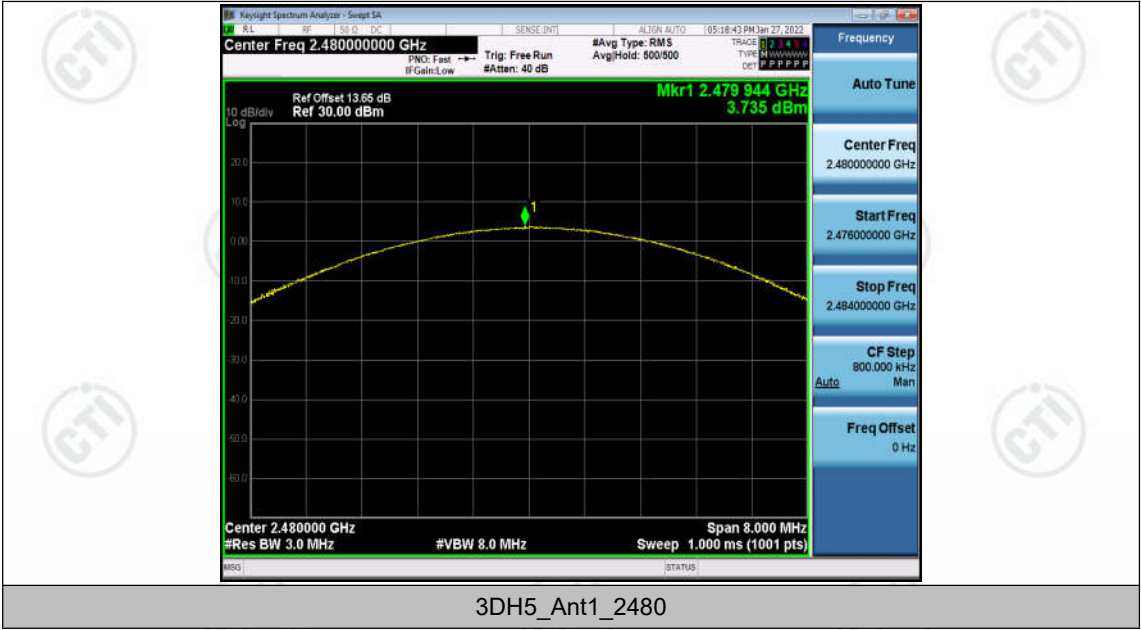
Test Graphs









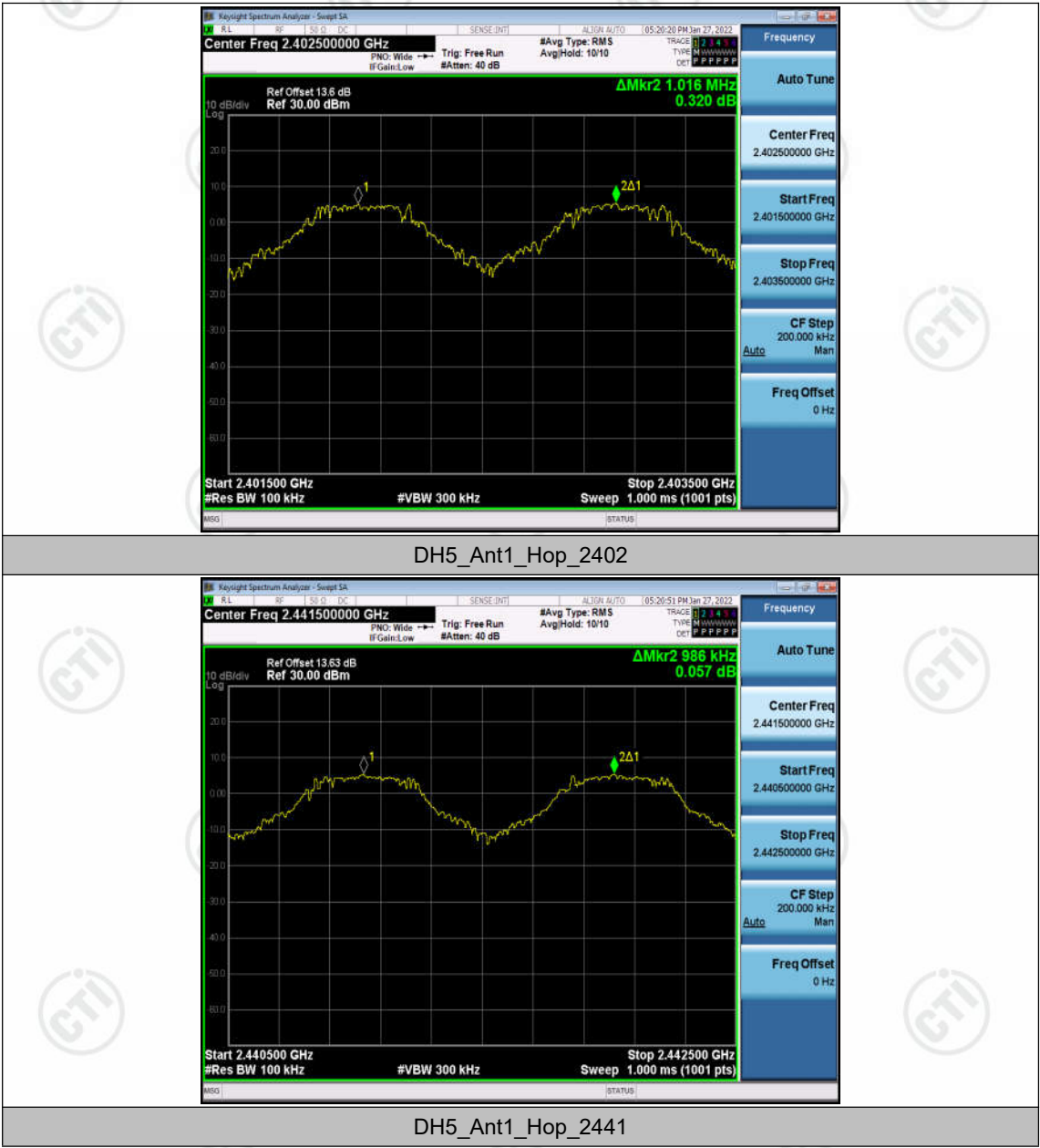


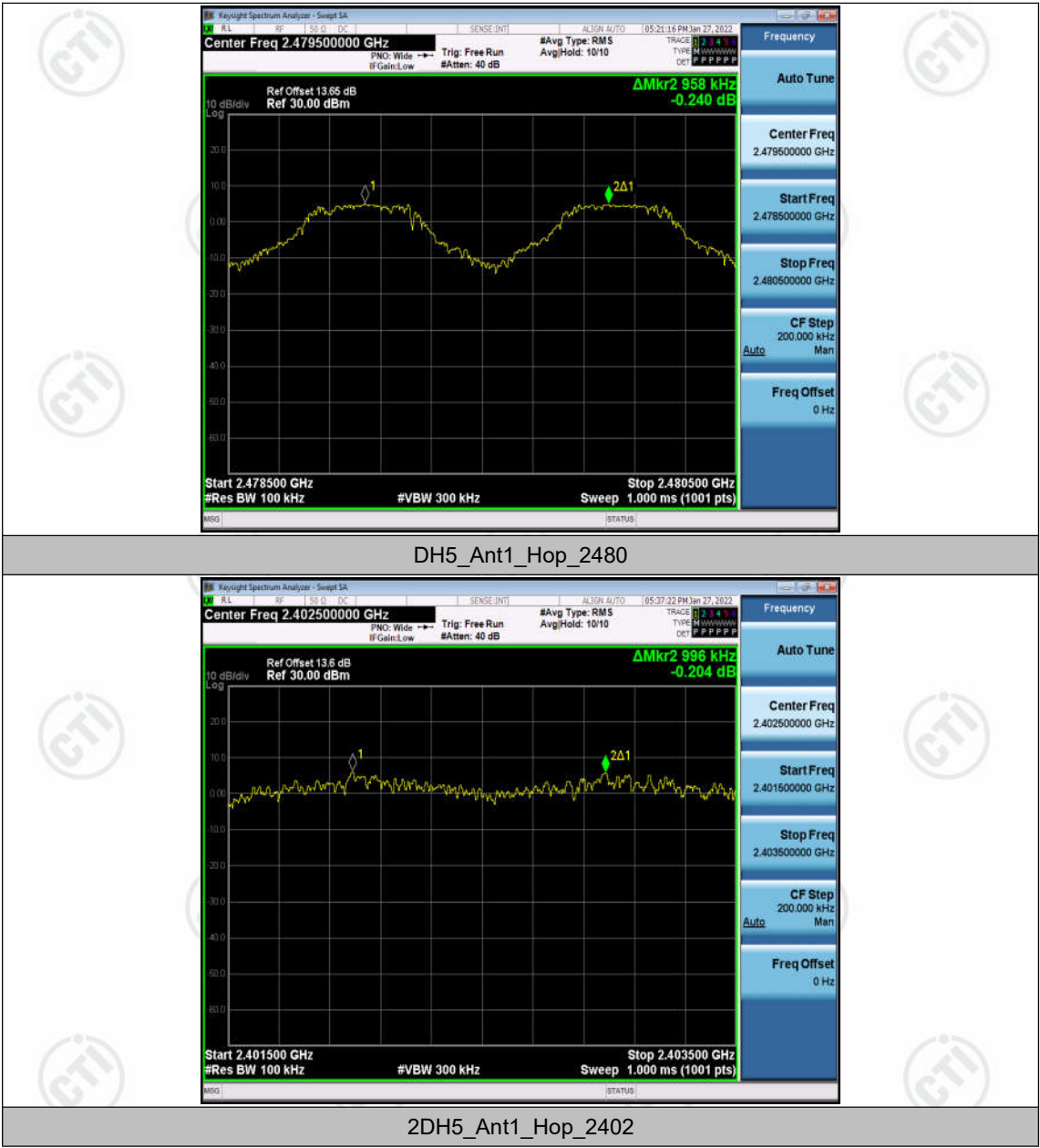
Appendix D: Carrier frequency separation

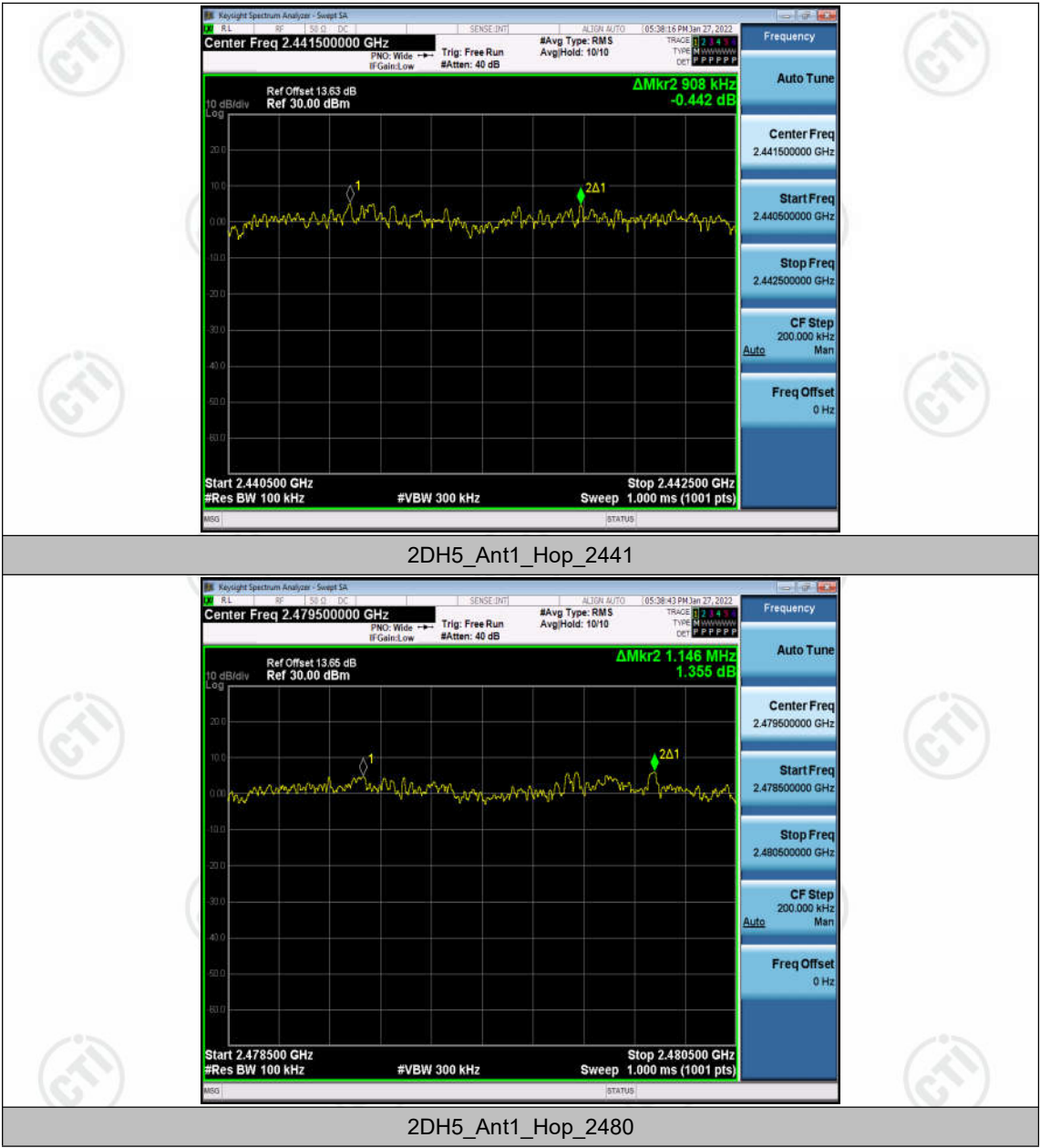
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop_2402	1.016	≥ 0.951	PASS
		Hop_2441	0.986	≥ 0.951	PASS
		Hop_2480	0.958	≥ 0.951	PASS
2DH5	Ant1	Hop_2402	0.996	≥ 0.876	PASS
		Hop_2441	0.908	≥ 0.876	PASS
		Hop_2480	1.146	≥ 0.876	PASS
3DH5	Ant1	Hop_2402	1.122	≥ 0.844	PASS
		Hop_2441	0.966	≥ 0.844	PASS
		Hop_2480	0.958	≥ 0.844	PASS

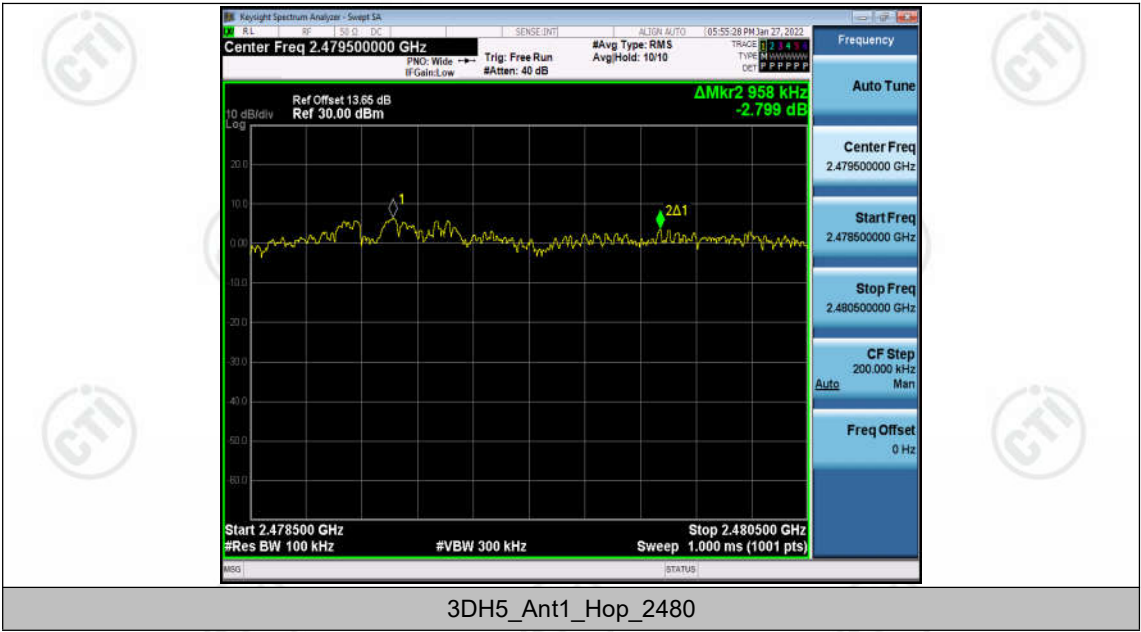
Test Graphs









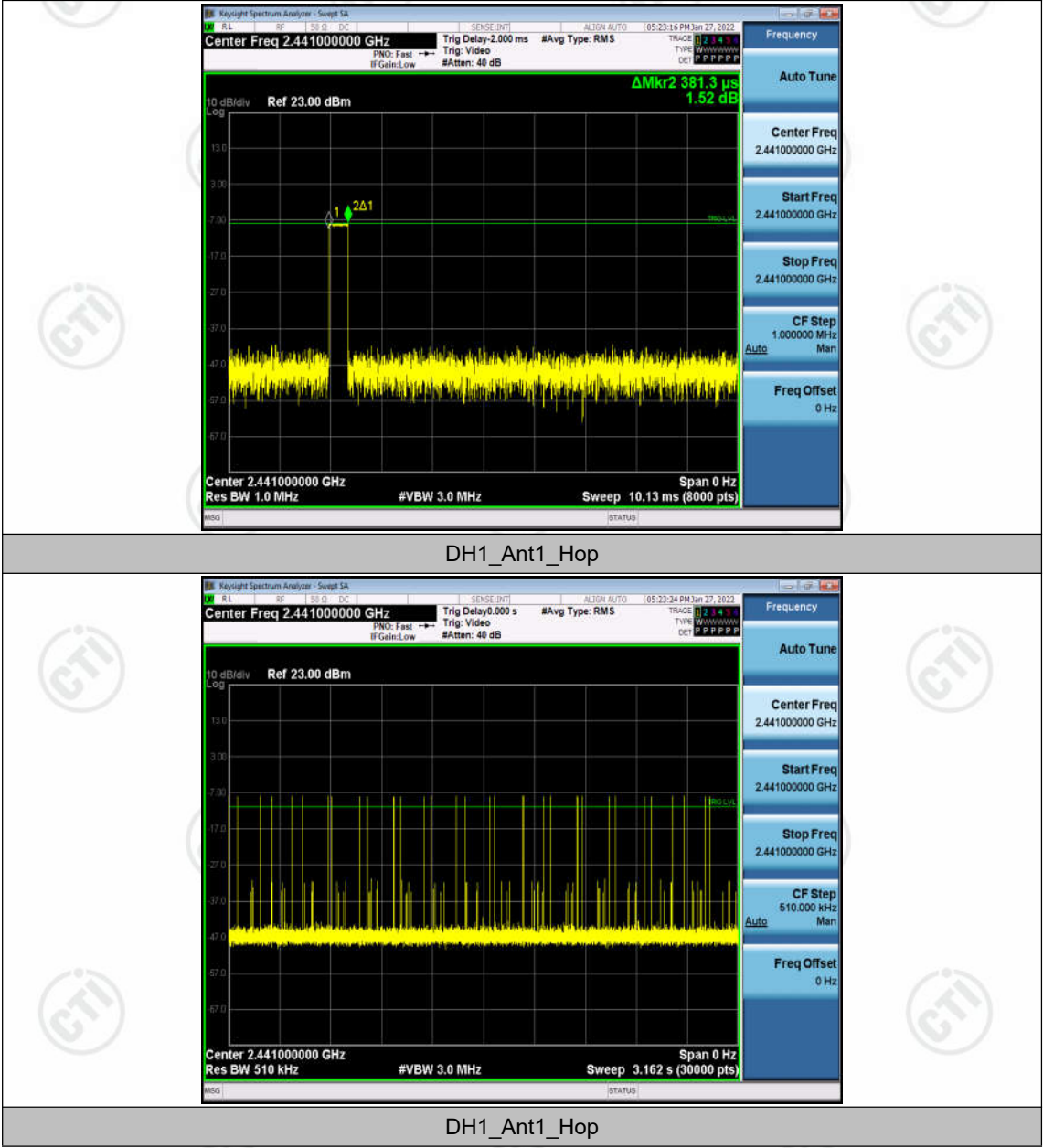


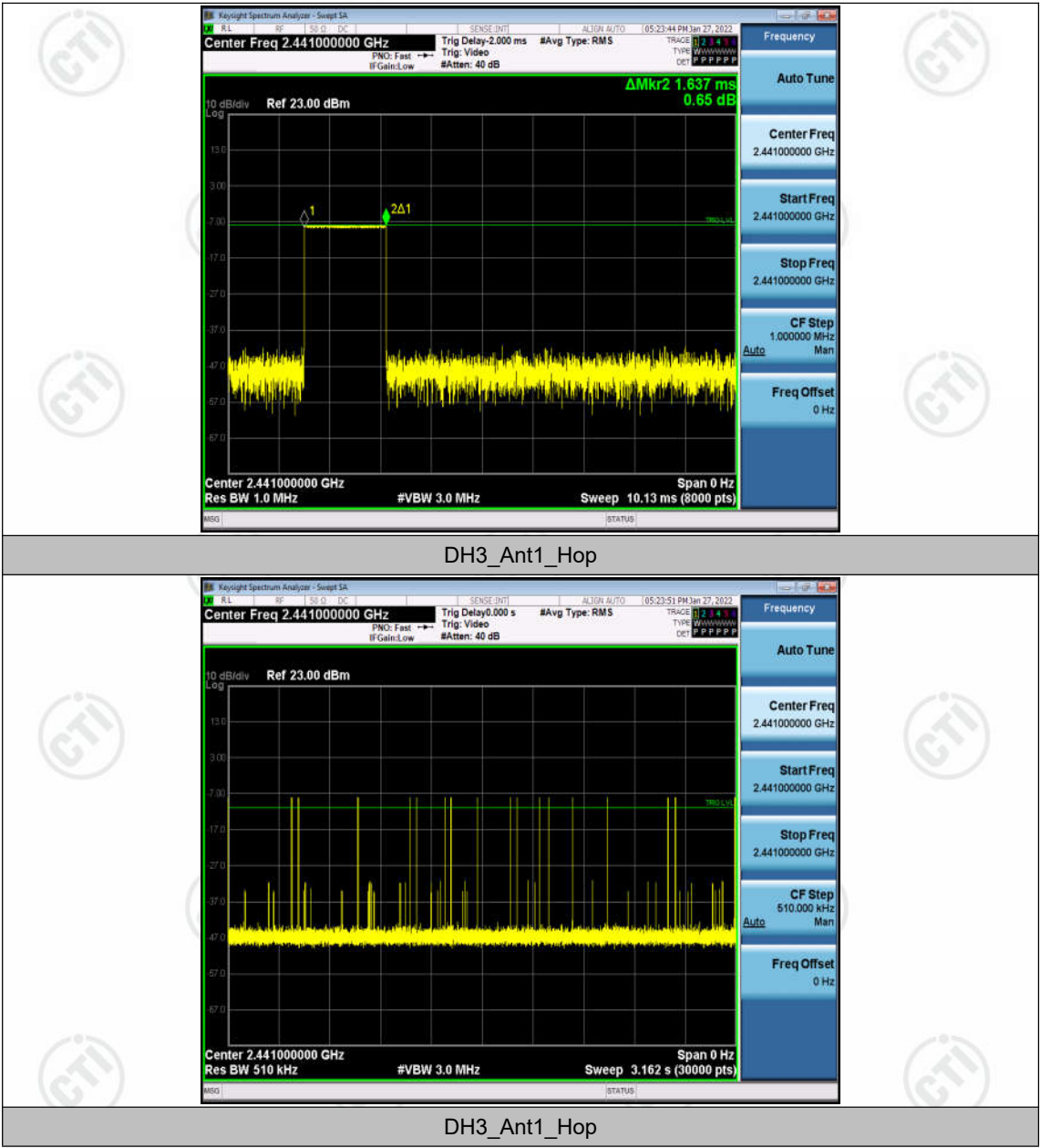
Appendix E: Time of occupancy

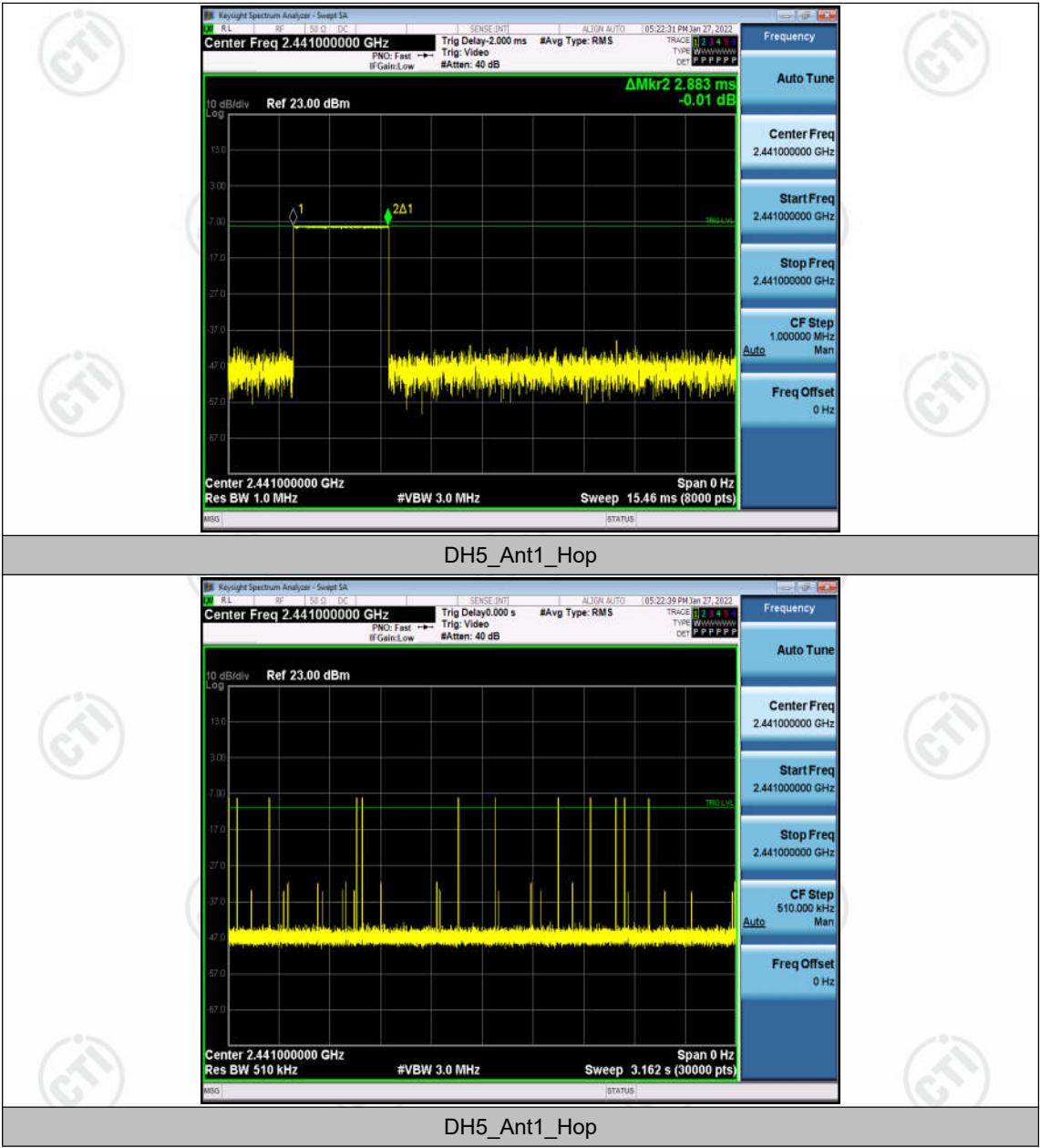
Test Result

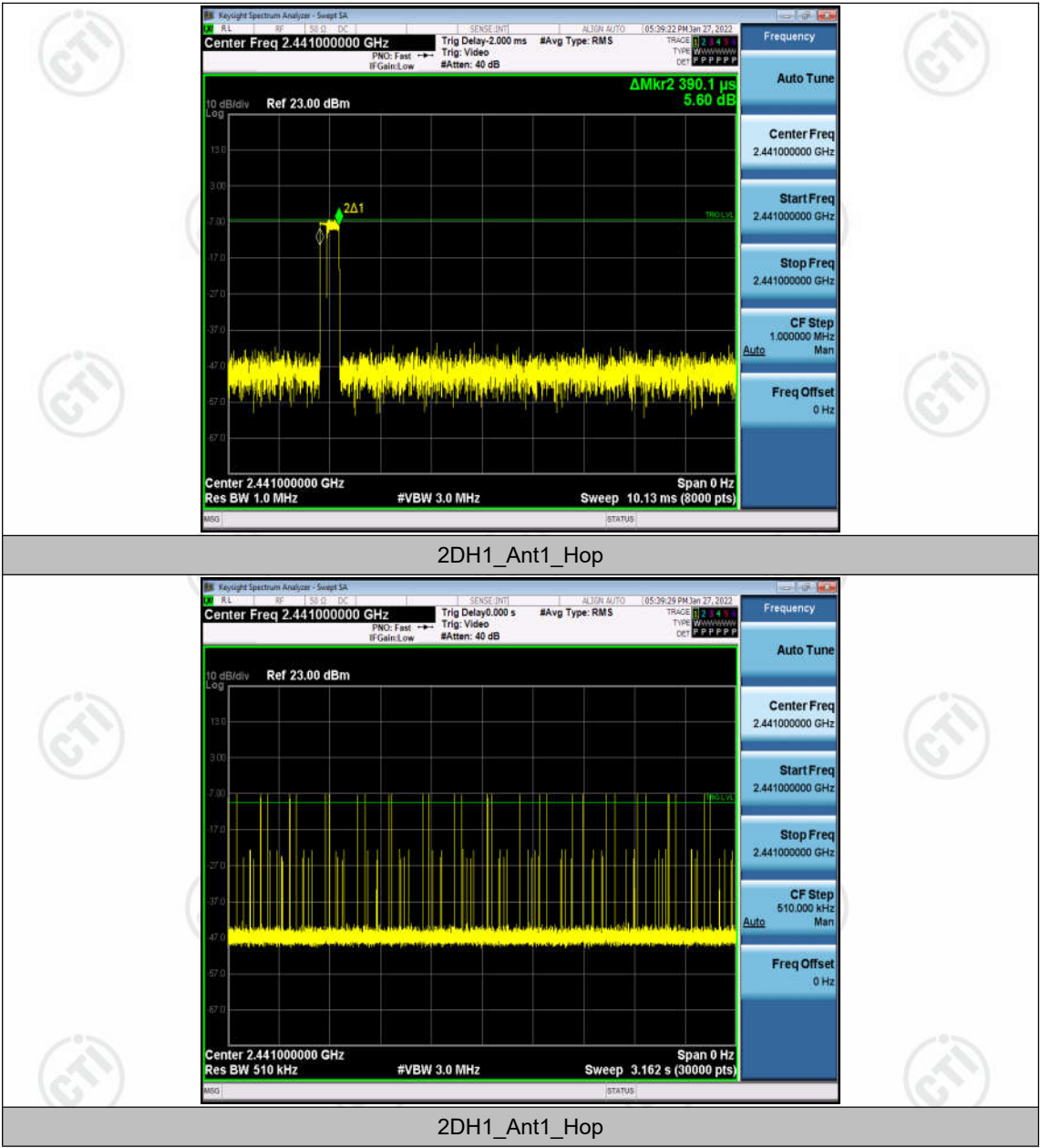
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	320	0.122	<=0.4	PASS
DH3	Ant1	Hop	1.64	180	0.295	<=0.4	PASS
DH5	Ant1	Hop	2.88	120	0.346	<=0.4	PASS
2DH1	Ant1	Hop	0.39	320	0.125	<=0.4	PASS
2DH3	Ant1	Hop	1.64	220	0.361	<=0.4	PASS
2DH5	Ant1	Hop	2.89	90	0.26	<=0.4	PASS
3DH1	Ant1	Hop	0.39	320	0.124	<=0.4	PASS
3DH3	Ant1	Hop	1.64	160	0.262	<=0.4	PASS
3DH5	Ant1	Hop	2.89	120	0.347	<=0.4	PASS

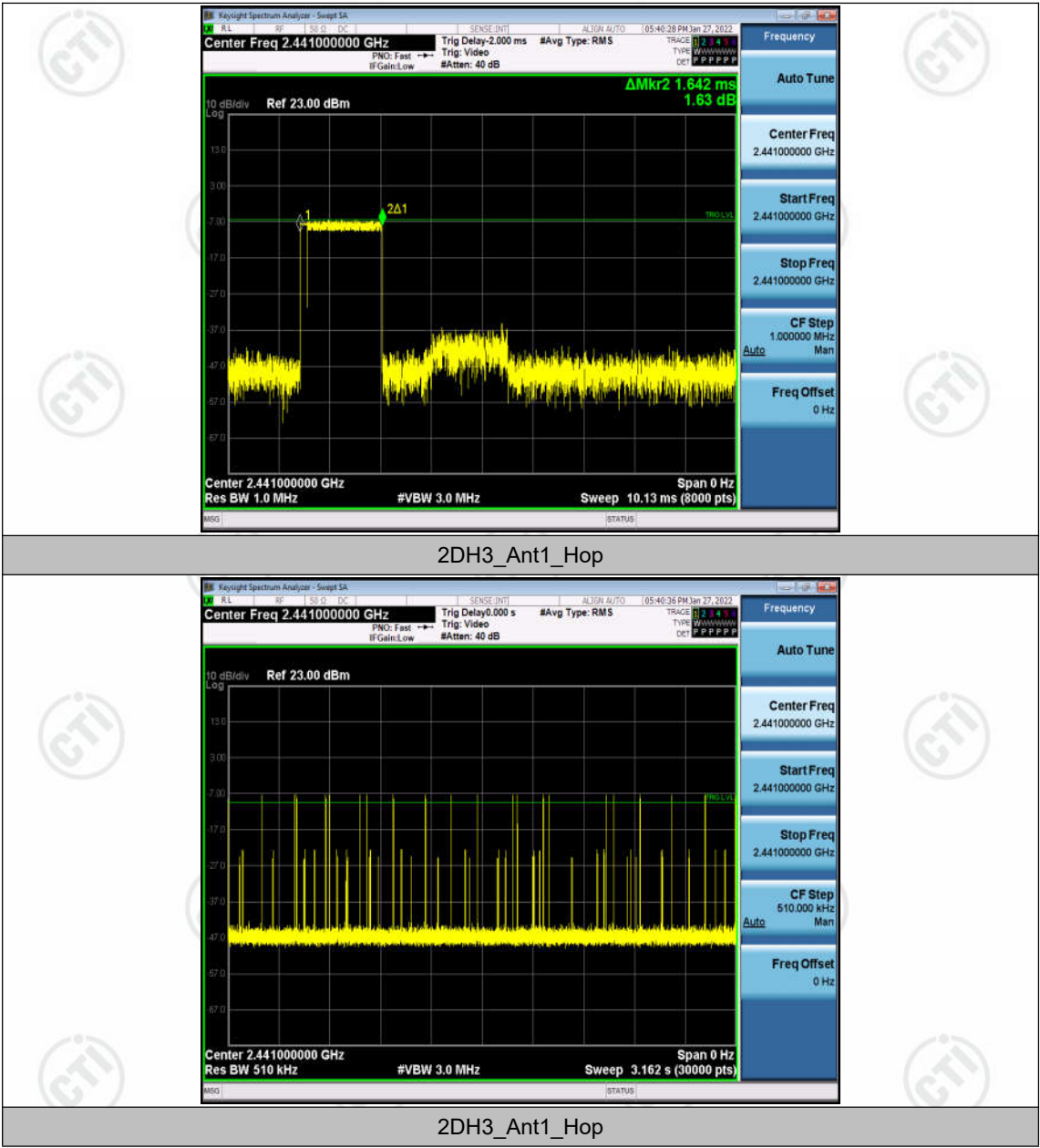
Test Graphs

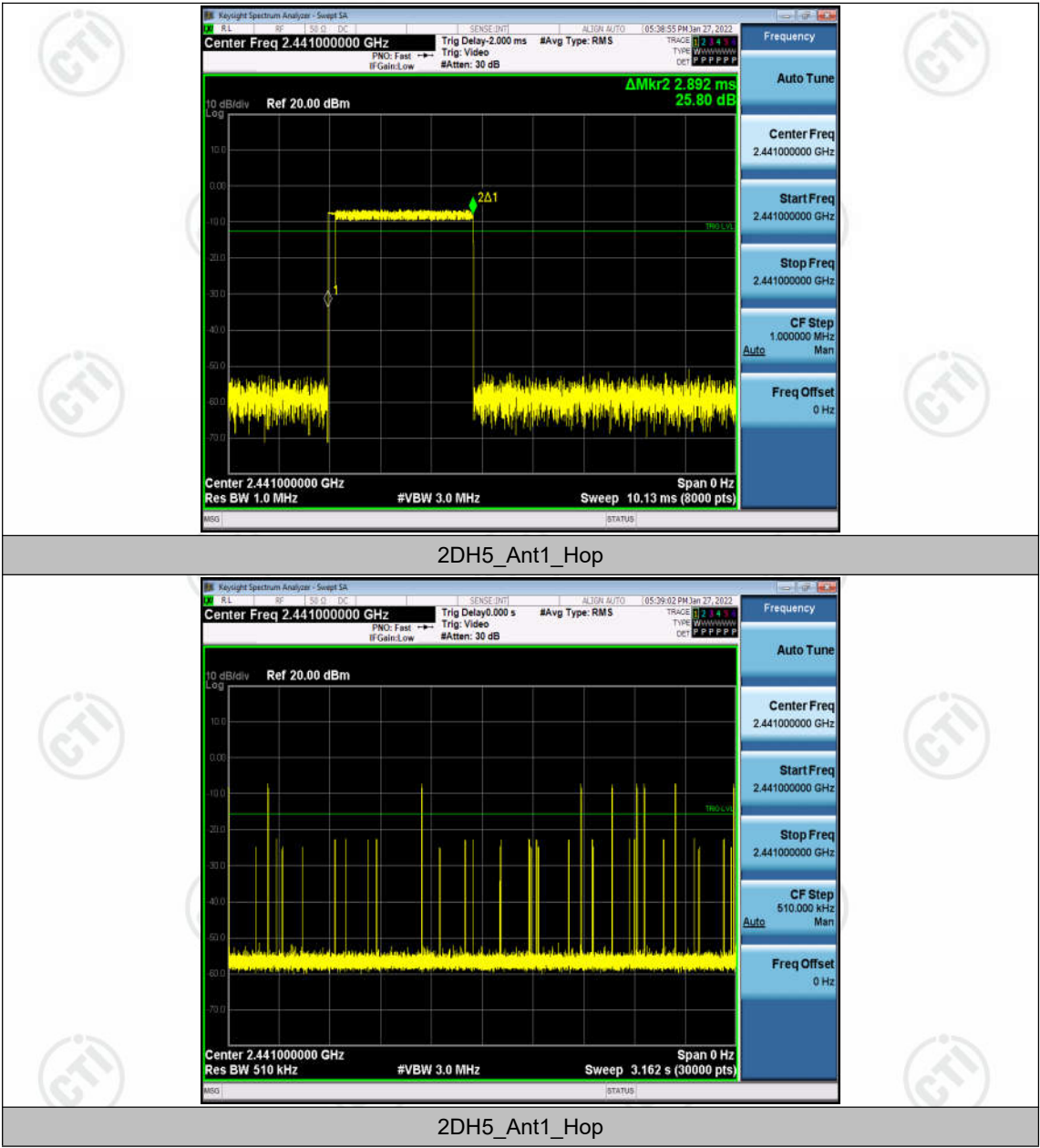


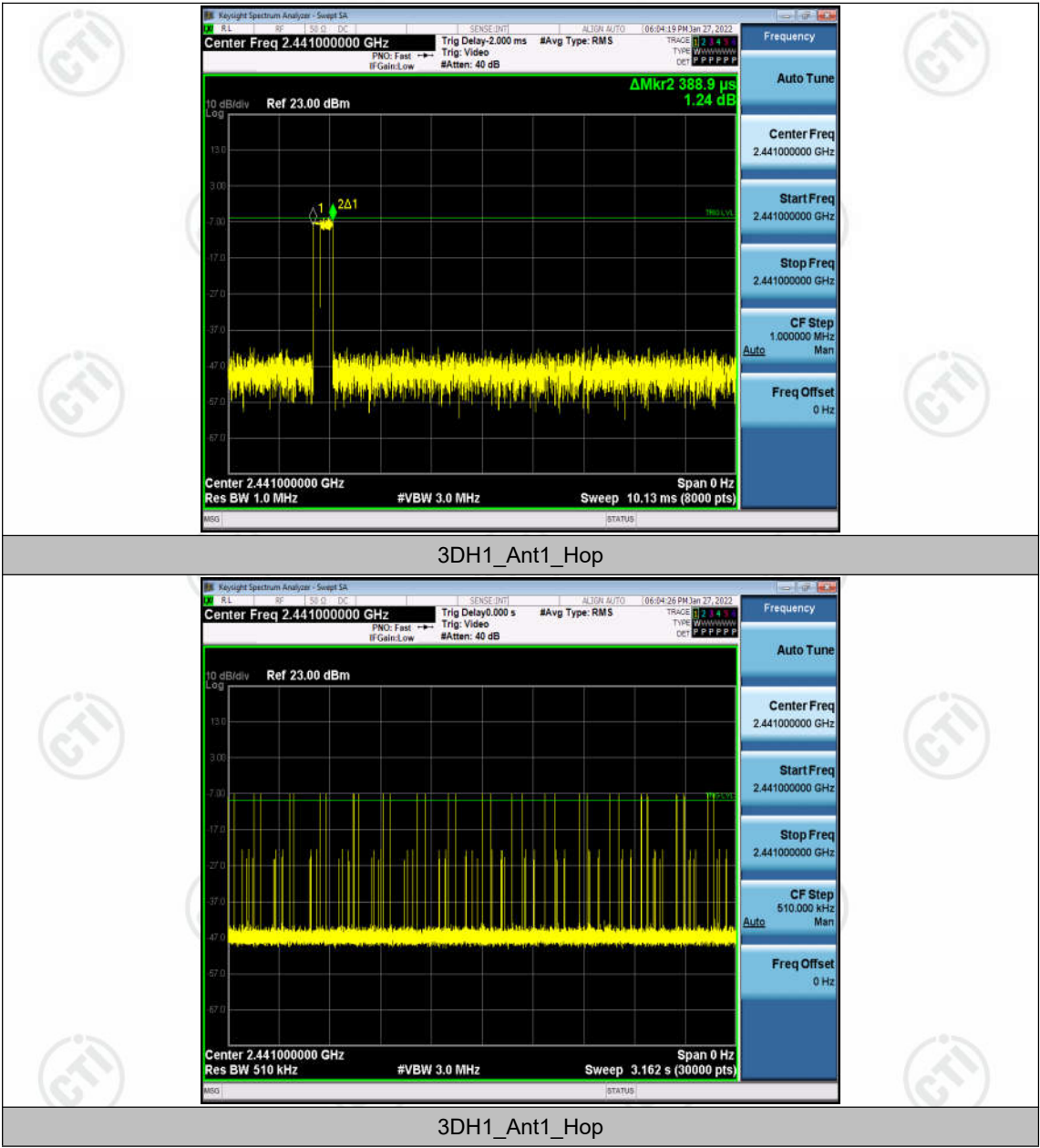


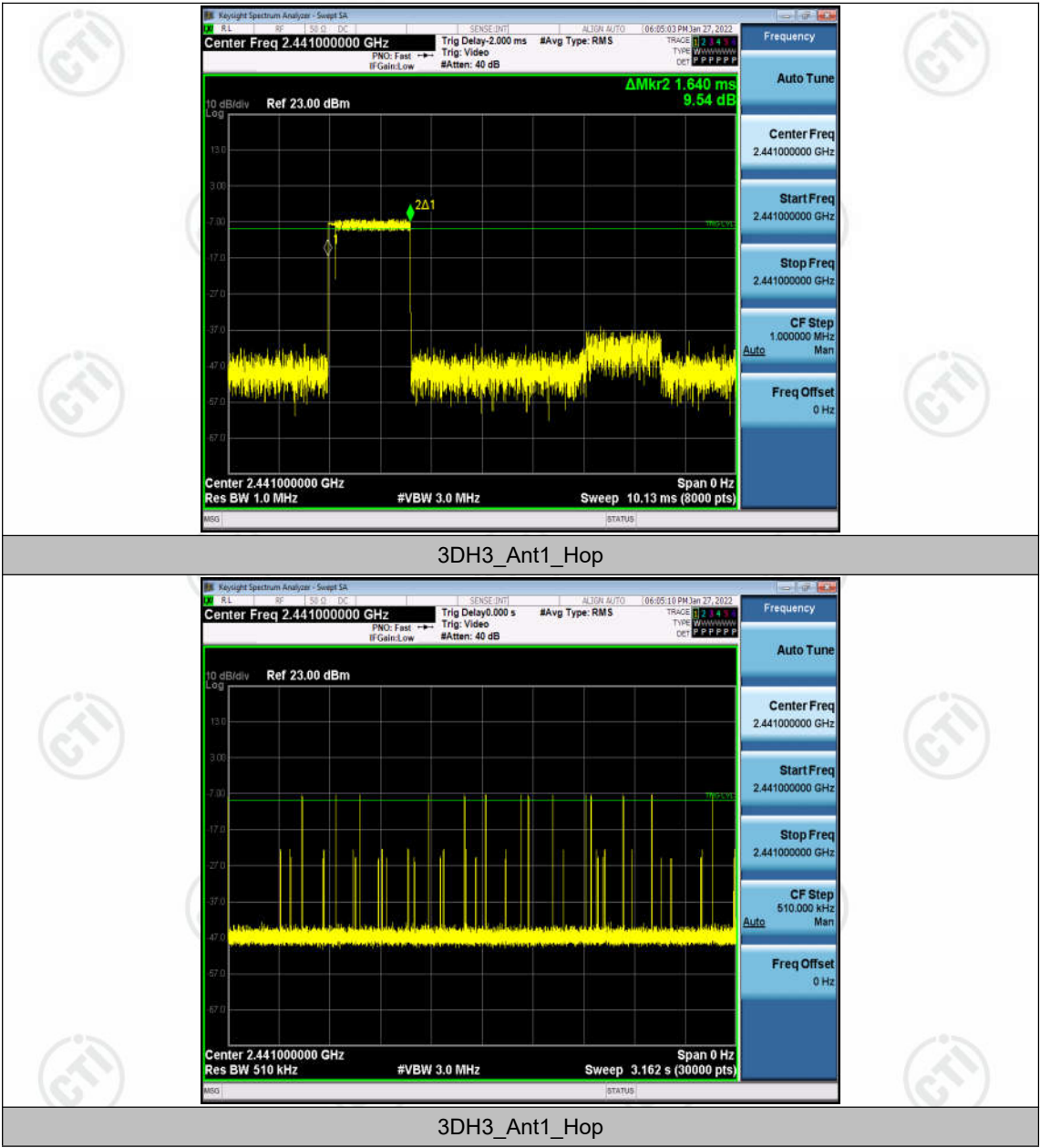


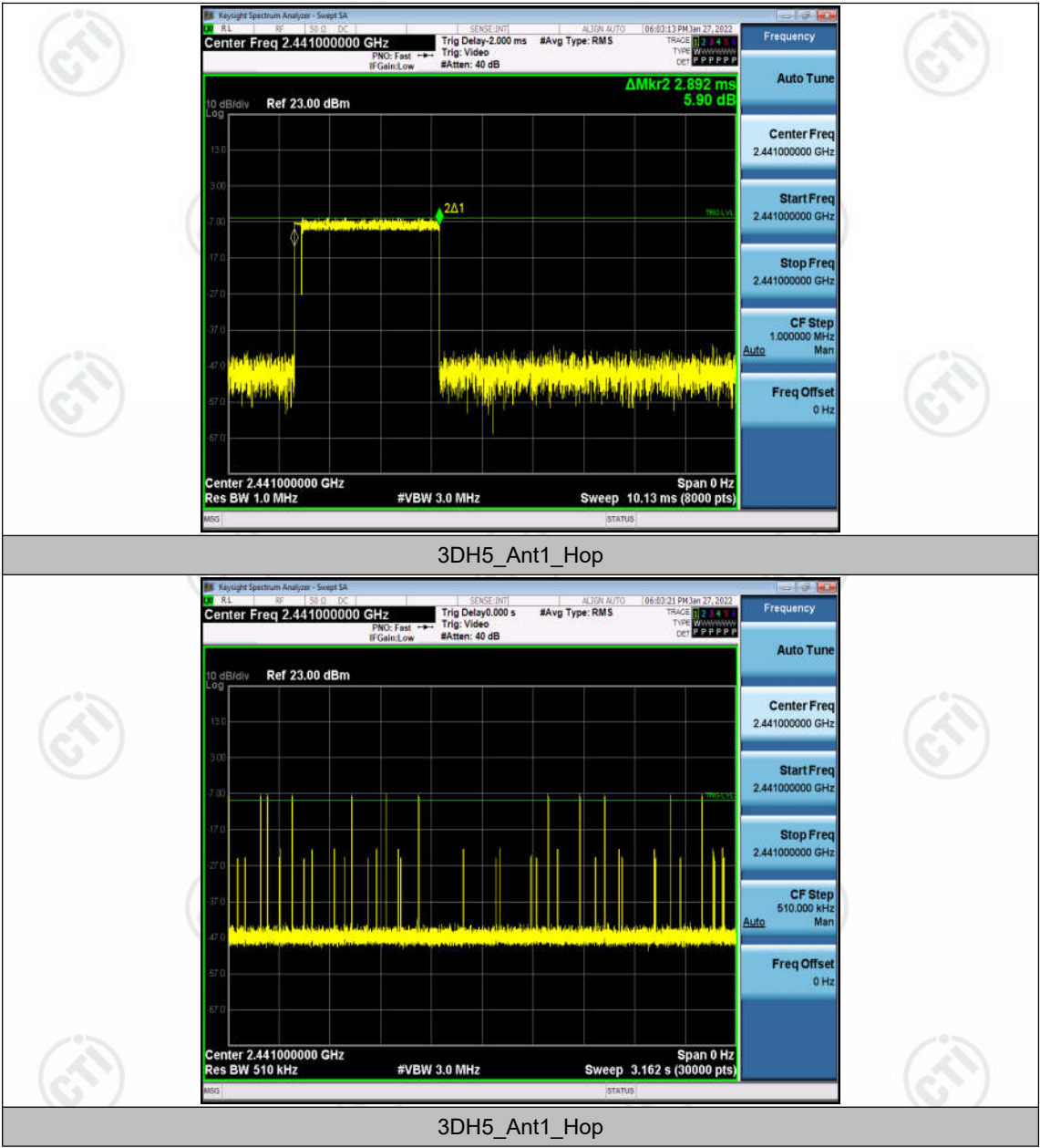










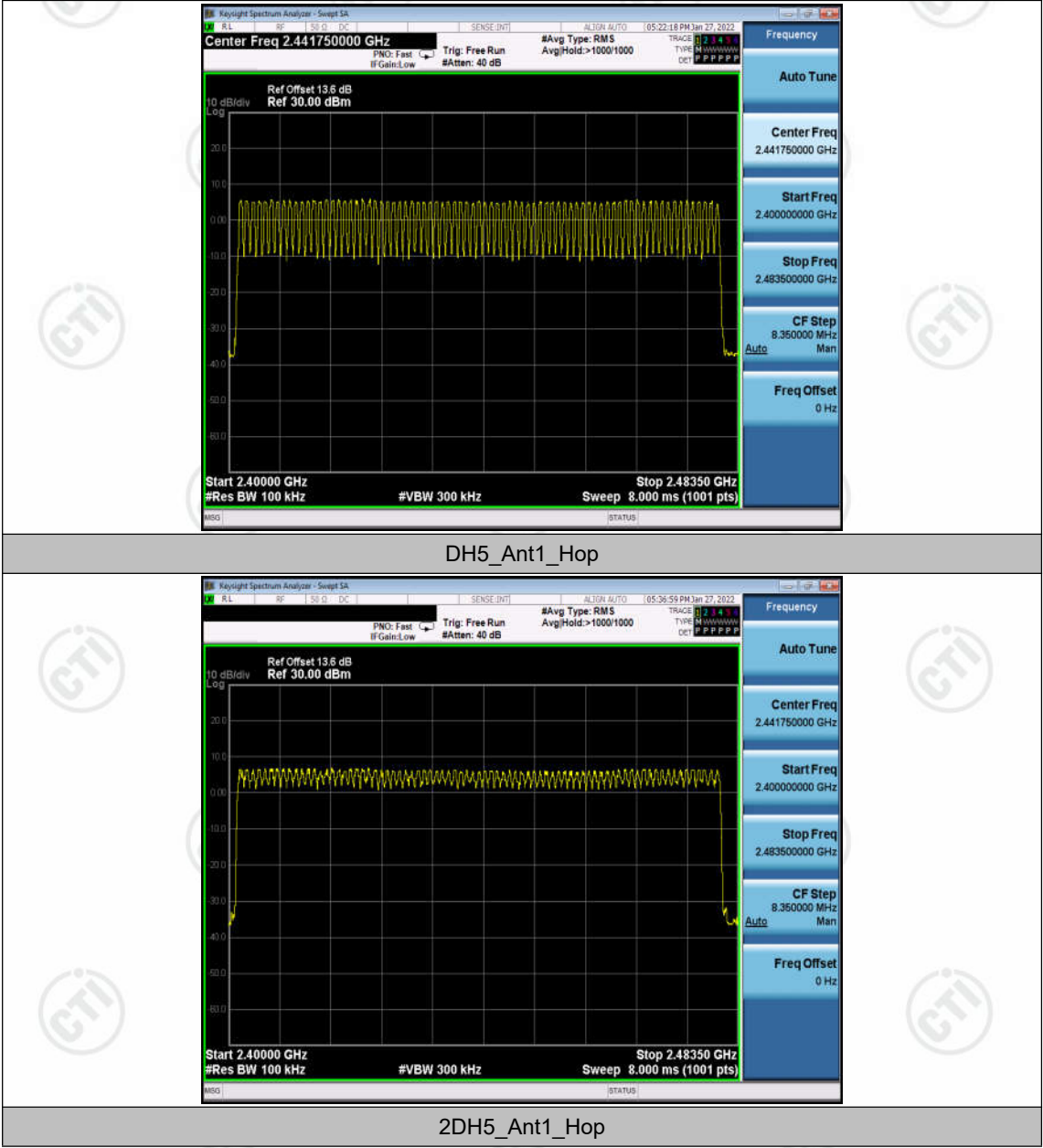


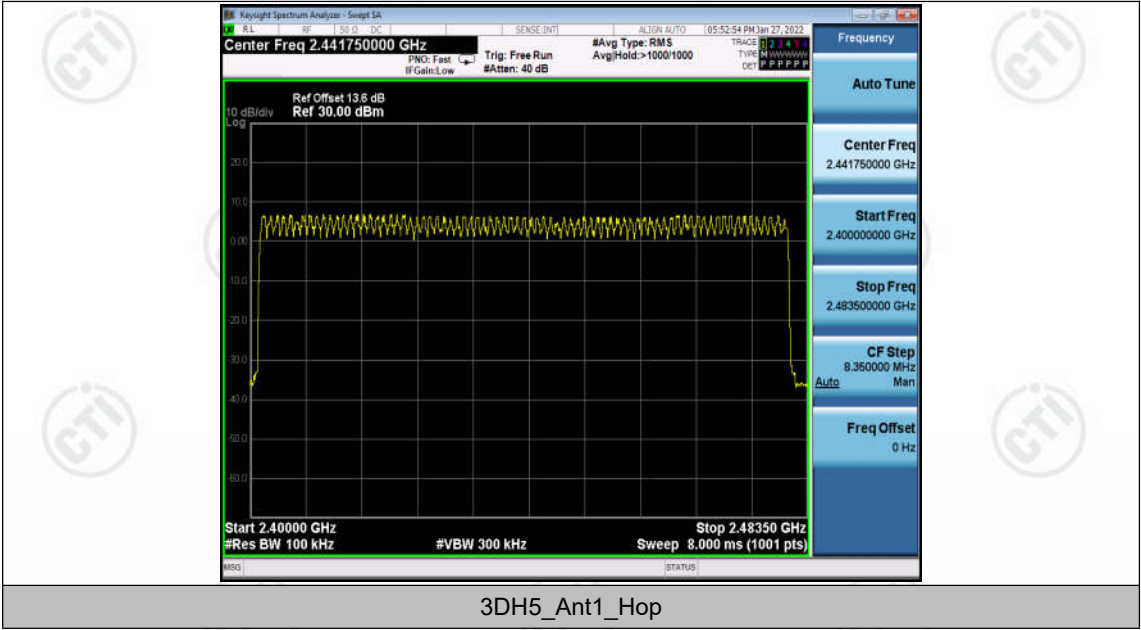
Appendix F: Number of hopping channels

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



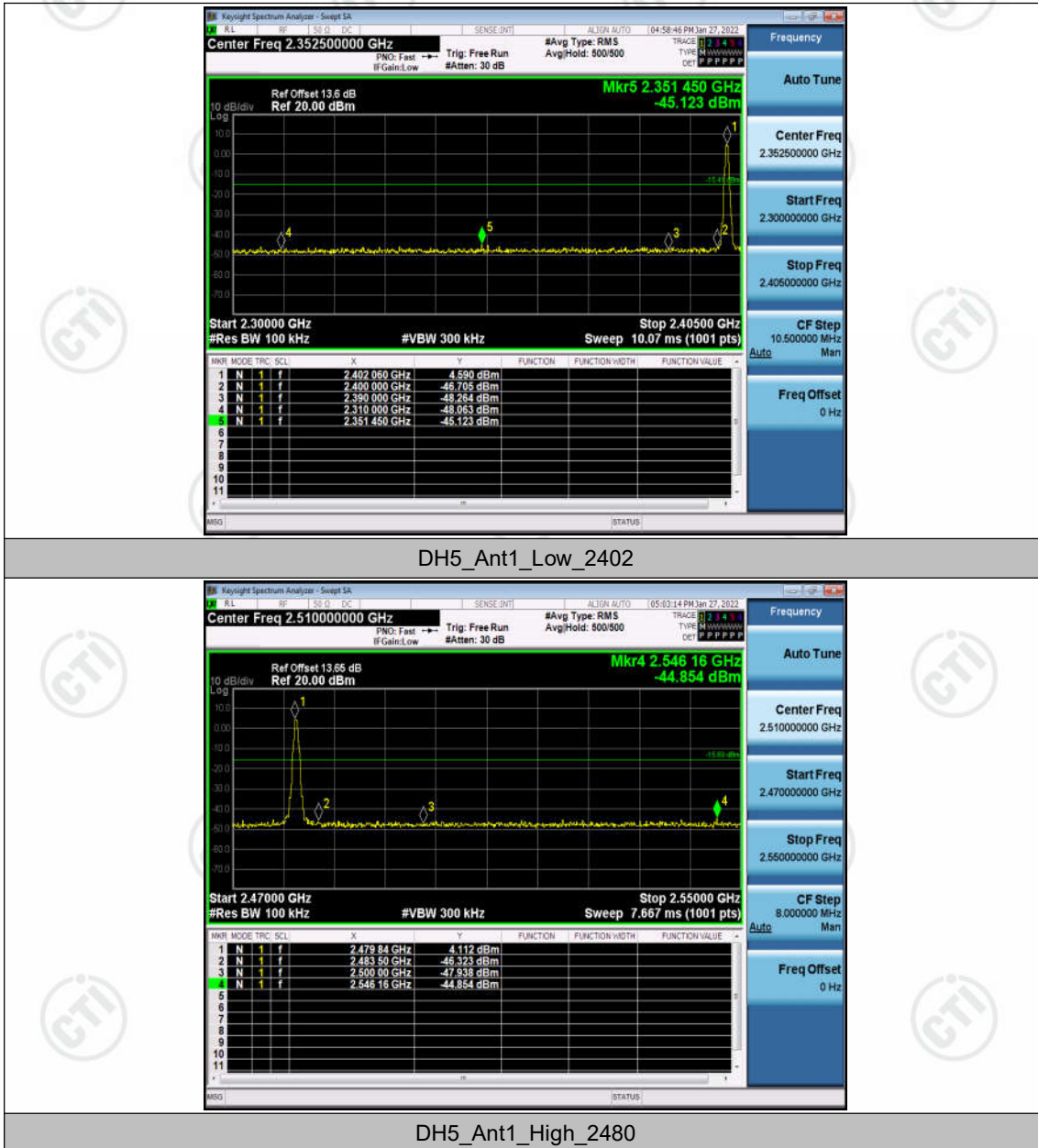


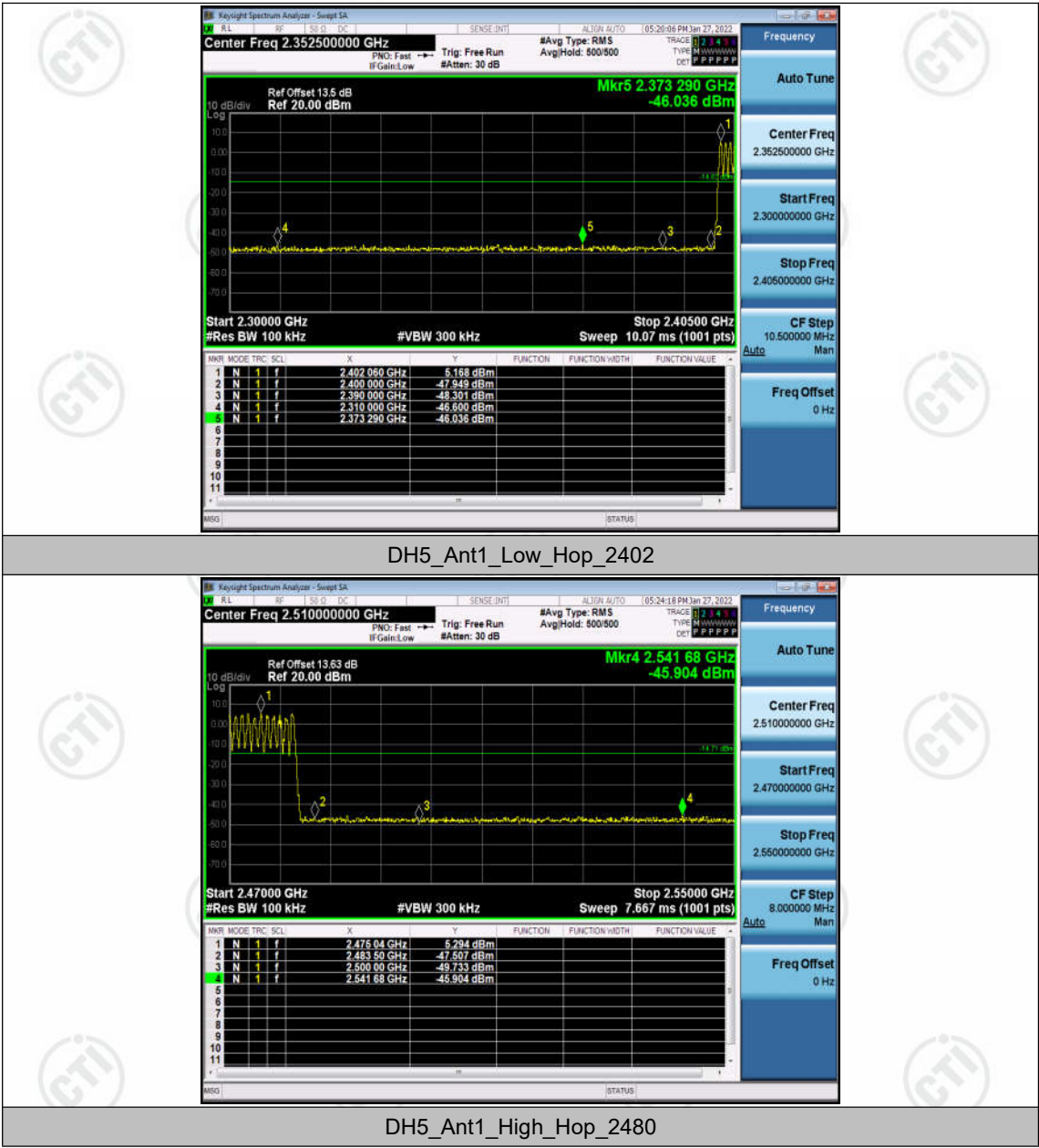
Appendix G:Band edge measurements

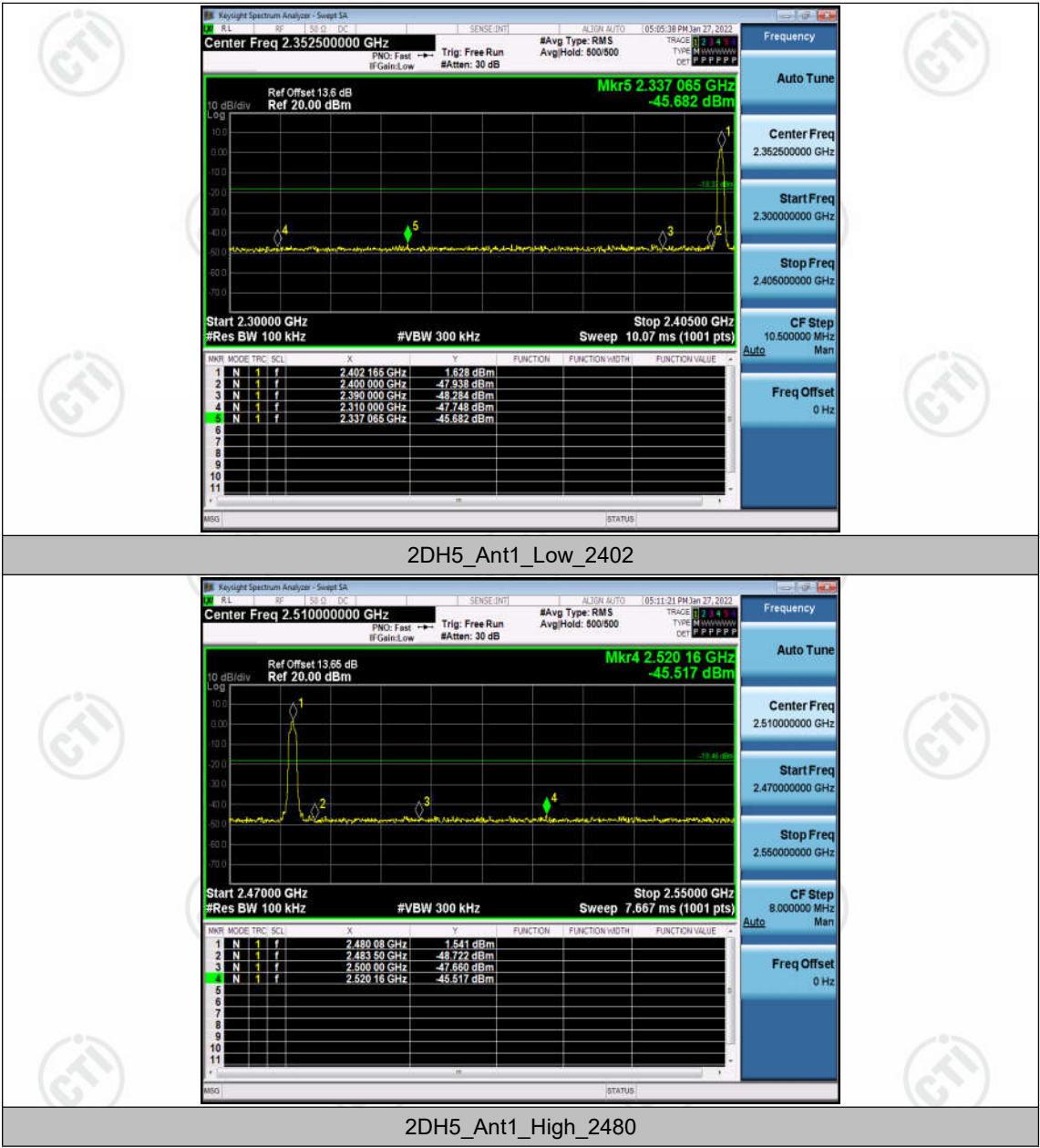
Test Result

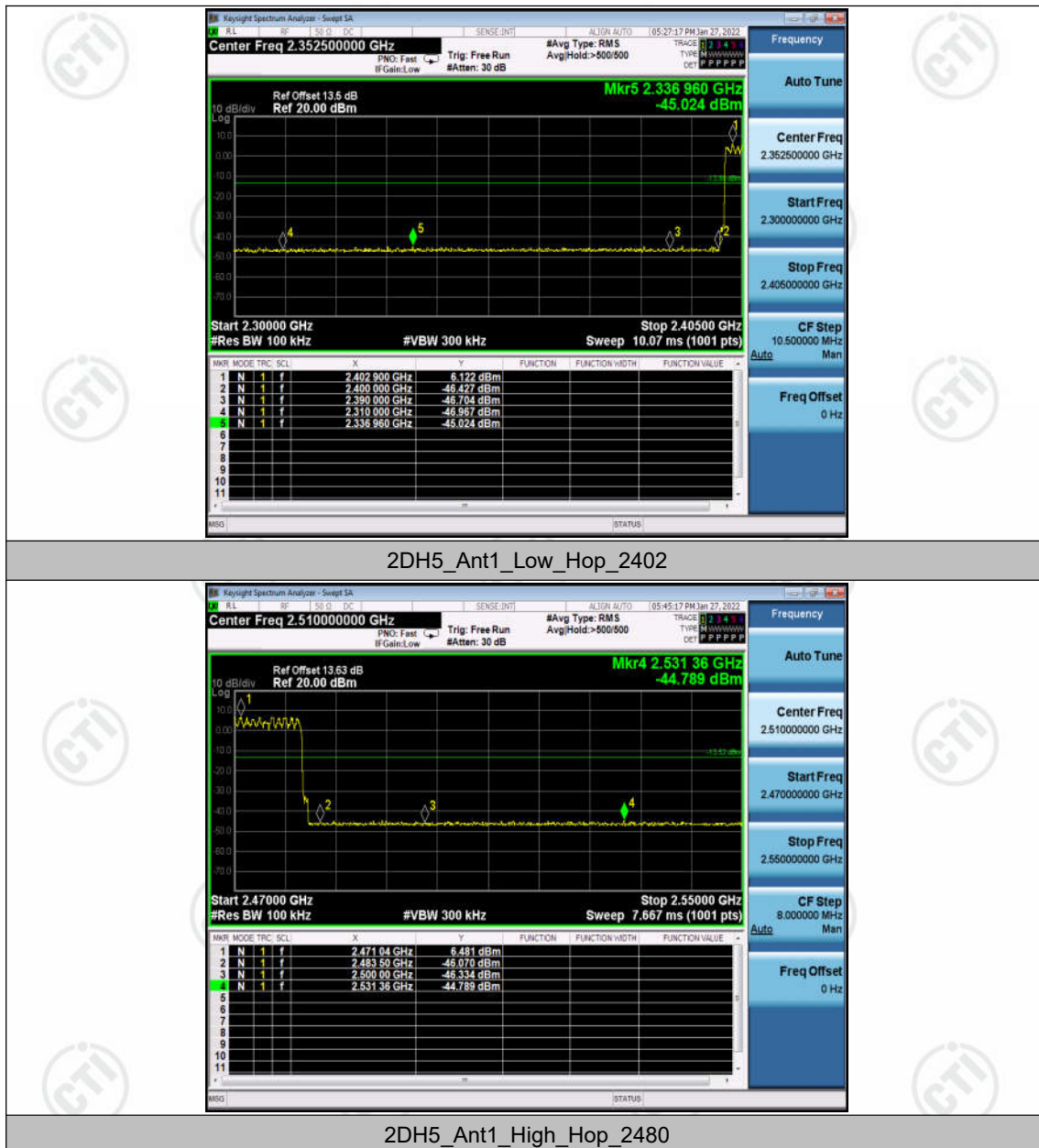
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.59	-45.12	<=-15.41	PASS
		High	2480	4.11	-44.85	<=-15.89	PASS
		Low	Hop_2402	5.17	-46.04	<=-14.83	PASS
		High	Hop_2480	5.29	-45.9	<=-14.71	PASS
2DH5	Ant1	Low	2402	1.63	-45.68	<=-18.37	PASS
		High	2480	1.54	-45.52	<=-18.46	PASS
		Low	Hop_2402	6.12	-45.02	<=-13.88	PASS
		High	Hop_2480	6.48	-44.79	<=-13.52	PASS
3DH5	Ant1	Low	2402	1.61	-45.47	<=-18.39	PASS
		High	2480	0.93	-44.73	<=-19.08	PASS
		Low	Hop_2402	6.41	-45.04	<=-13.59	PASS
		High	Hop_2480	6.32	-44.8	<=-13.68	PASS

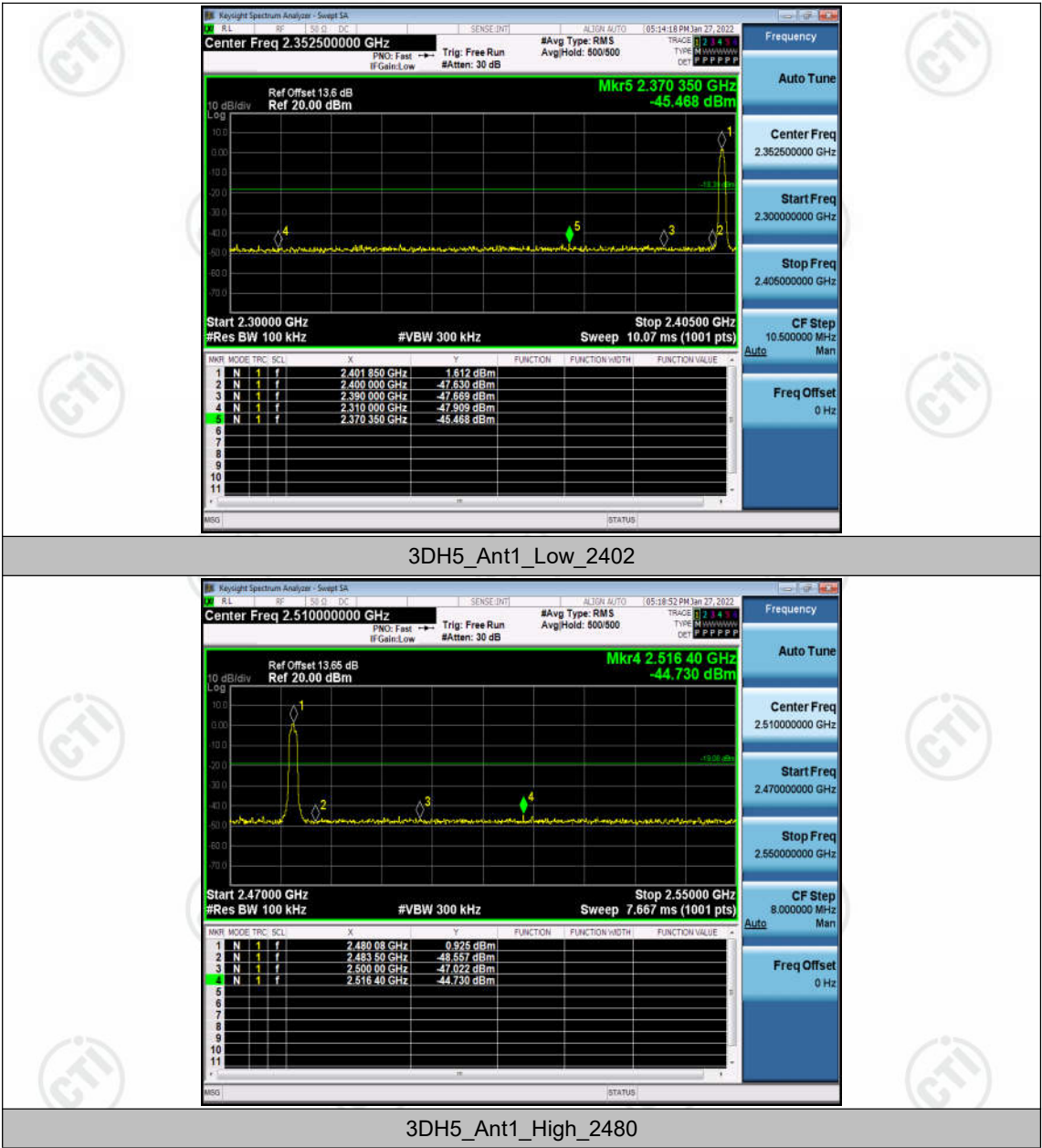
Test Graphs

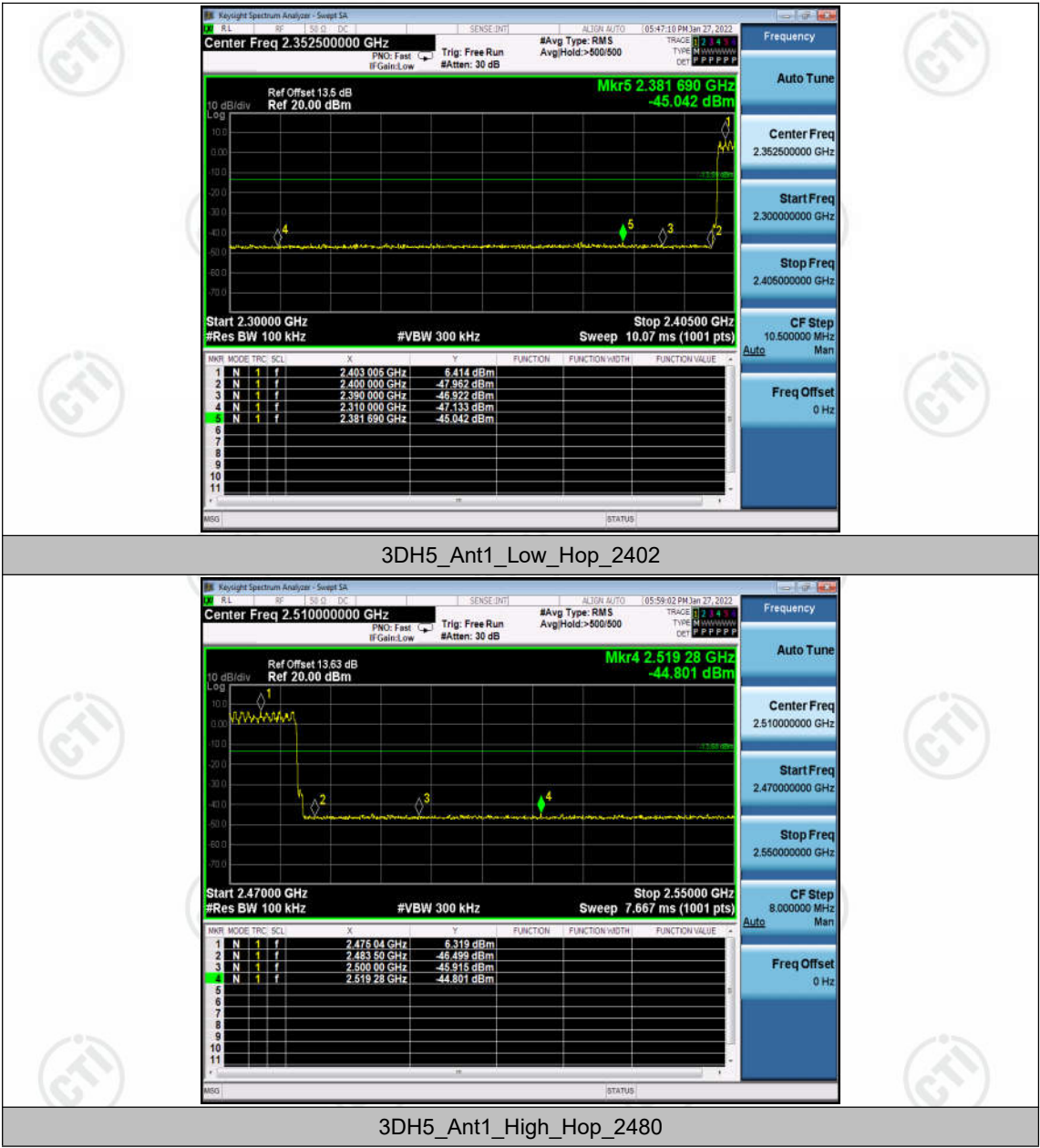










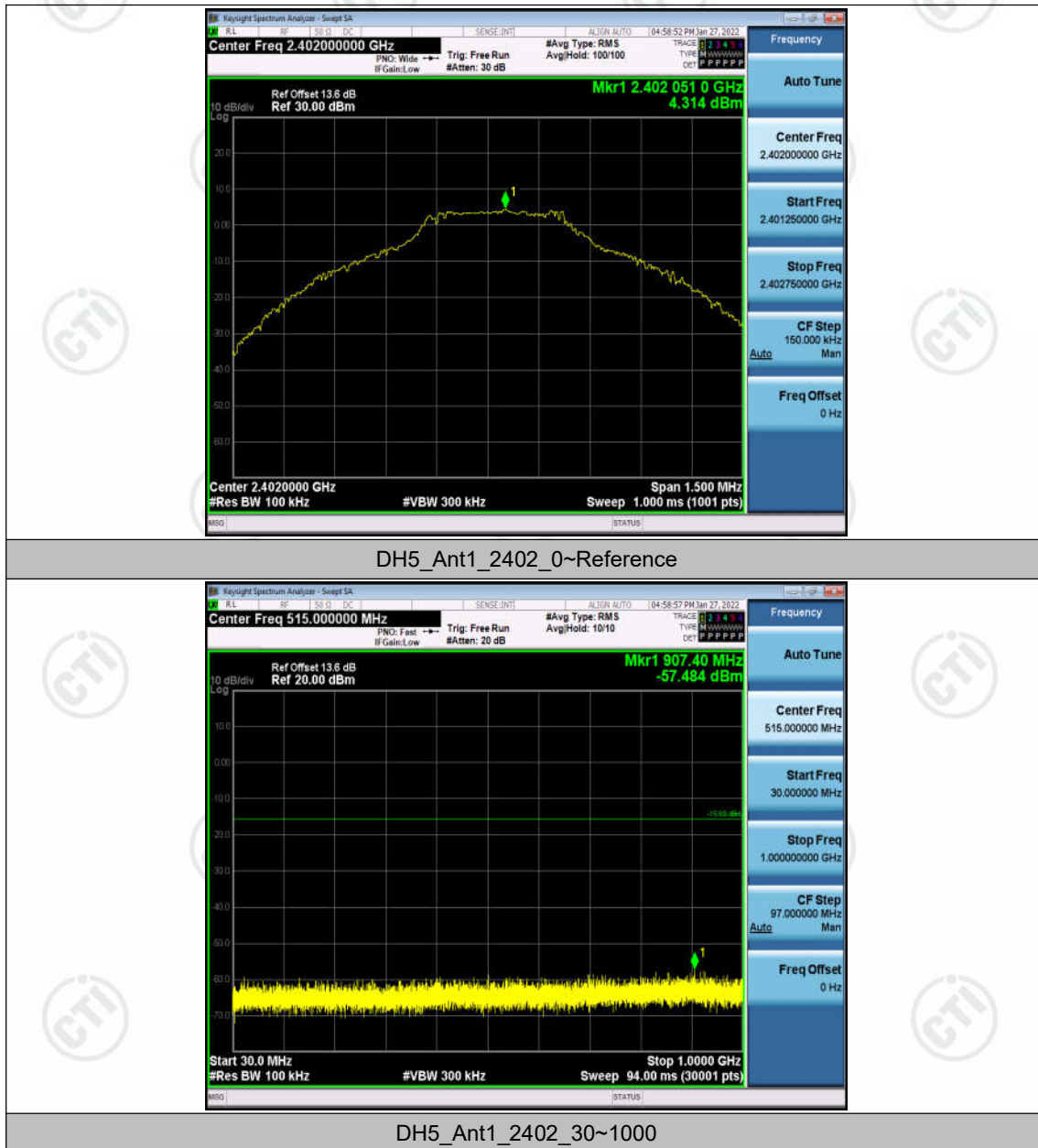


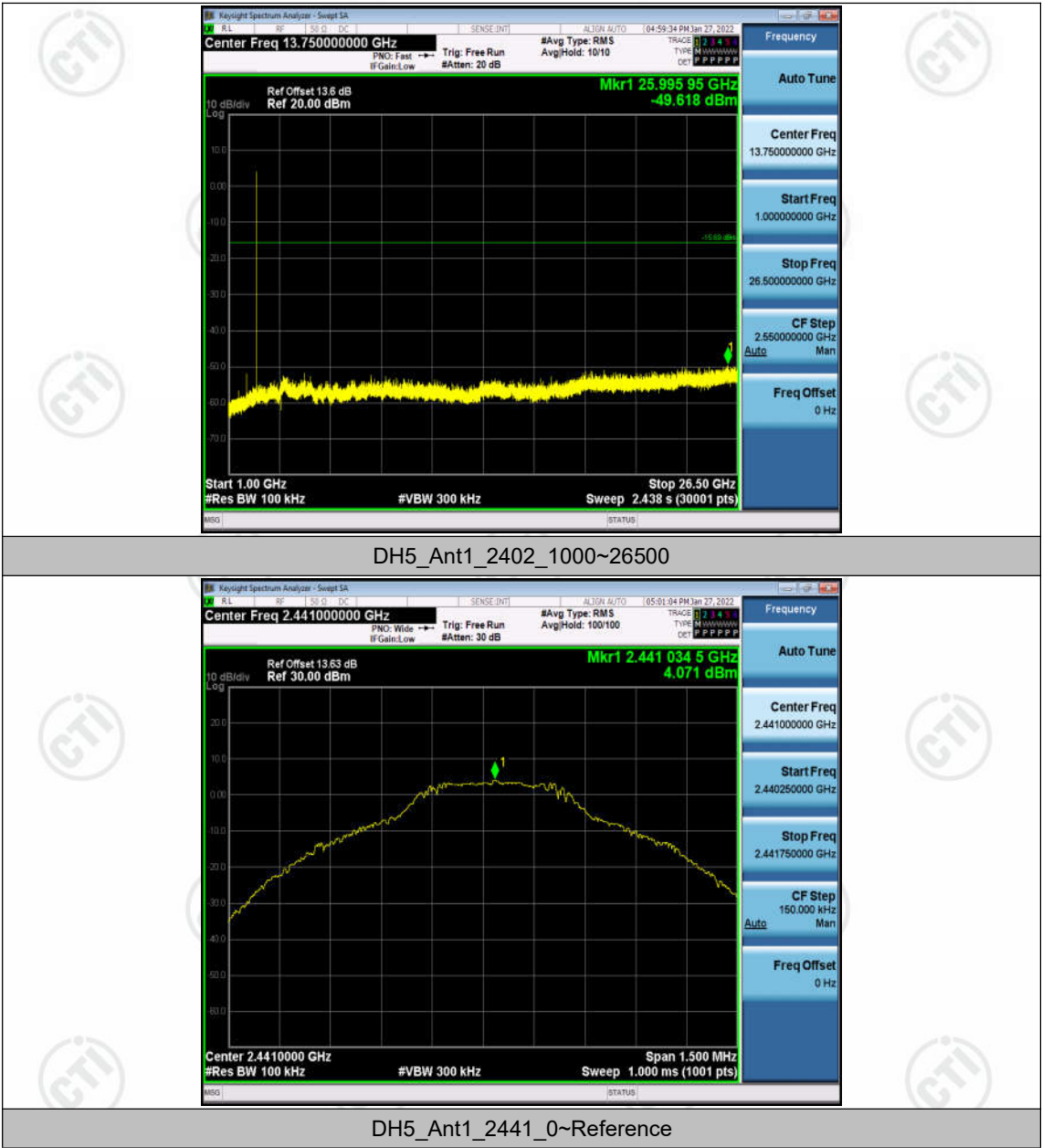
Appendix H:Conducted Spurious Emission

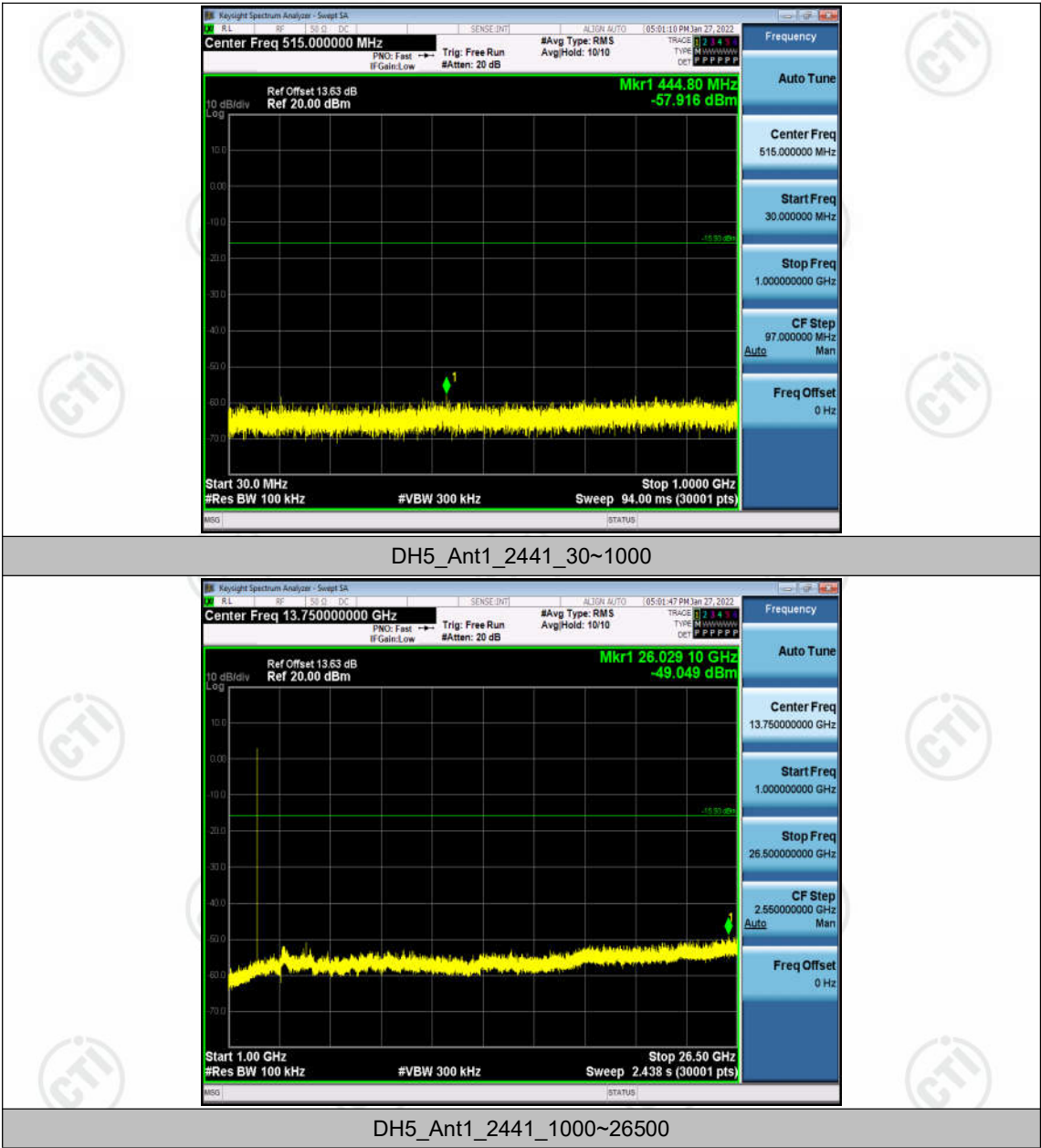
Test Result

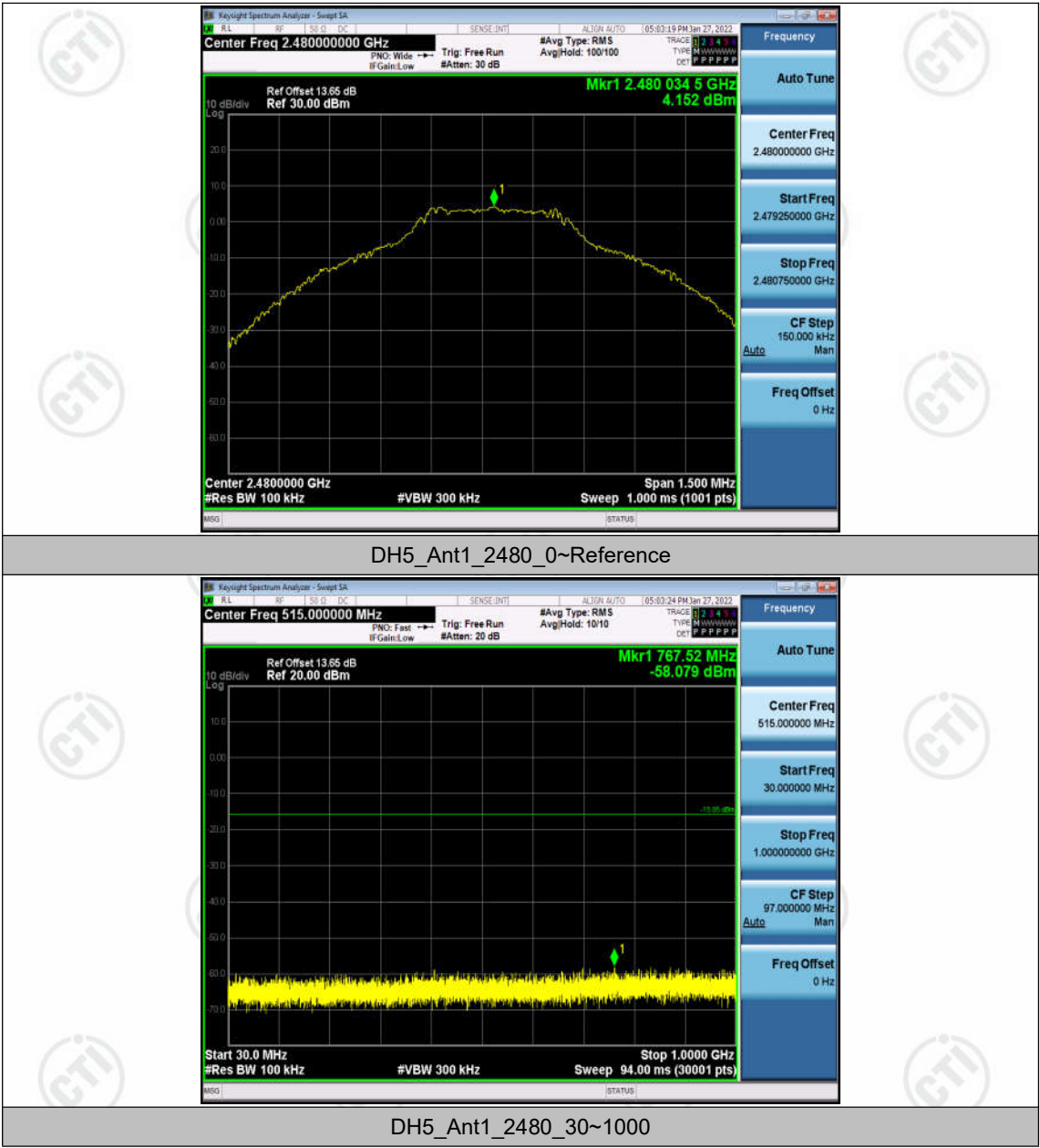
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.31	4.31	---	PASS
			30~1000	30~1000	-57.484	<=-15.686	PASS
			1000~26500	1000~26500	-49.618	<=-15.686	PASS
		2441	Reference	4.07	4.07	---	PASS
			30~1000	30~1000	-57.916	<=-15.929	PASS
			1000~26500	1000~26500	-49.049	<=-15.929	PASS
		2480	Reference	4.15	4.15	---	PASS
			30~1000	30~1000	-58.079	<=-15.848	PASS
			1000~26500	1000~26500	-49.288	<=-15.848	PASS
2DH5	Ant1	2402	Reference	1.61	1.61	---	PASS
			30~1000	30~1000	-57.498	<=-18.395	PASS
			1000~26500	1000~26500	-49.015	<=-18.395	PASS
		2441	Reference	1.24	1.24	---	PASS
			30~1000	30~1000	-51.5	<=-18.759	PASS
			1000~26500	1000~26500	-49.457	<=-18.759	PASS
		2480	Reference	1.32	1.32	---	PASS
			30~1000	30~1000	-57.869	<=-18.678	PASS
			1000~26500	1000~26500	-48.313	<=-18.678	PASS
3DH5	Ant1	2402	Reference	1.56	1.56	---	PASS
			30~1000	30~1000	-57.603	<=-18.444	PASS
			1000~26500	1000~26500	-50.115	<=-18.444	PASS
		2441	Reference	1.18	1.18	---	PASS
			30~1000	30~1000	-57.674	<=-18.817	PASS
			1000~26500	1000~26500	-48.655	<=-18.817	PASS
		2480	Reference	1.31	1.31	---	PASS
			30~1000	30~1000	-58.239	<=-18.69	PASS
			1000~26500	1000~26500	-48.699	<=-18.69	PASS

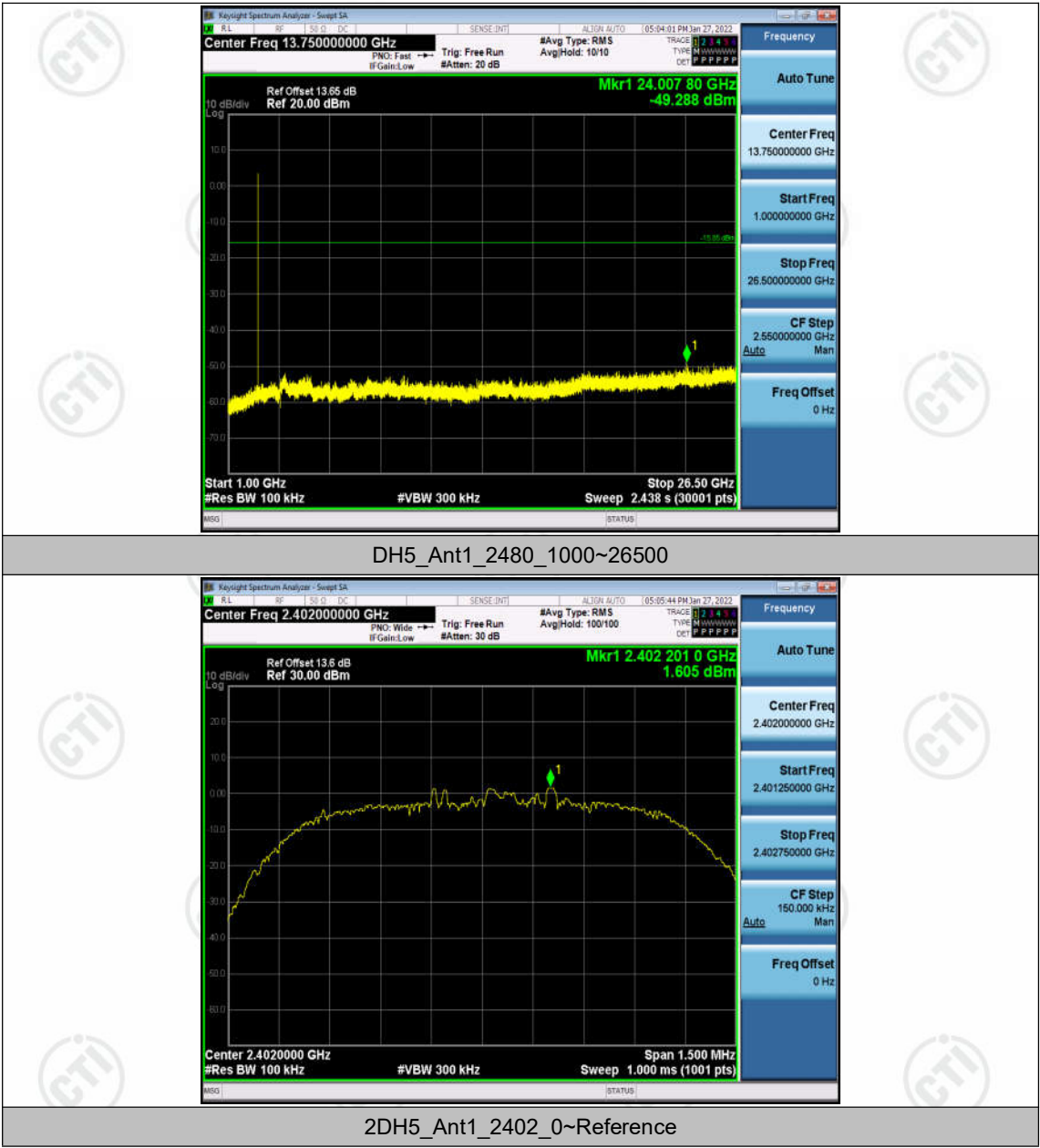
Test Graphs

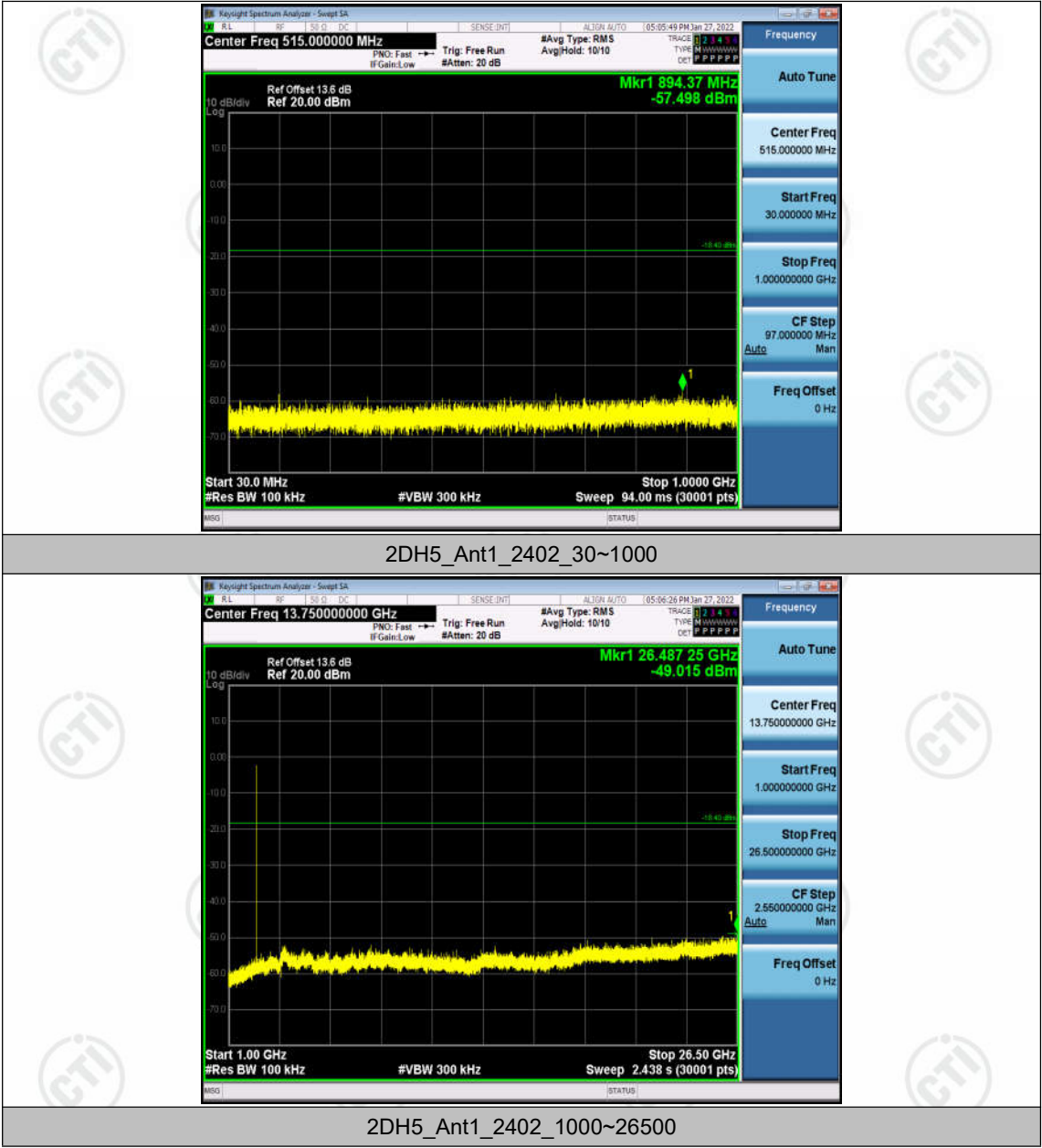


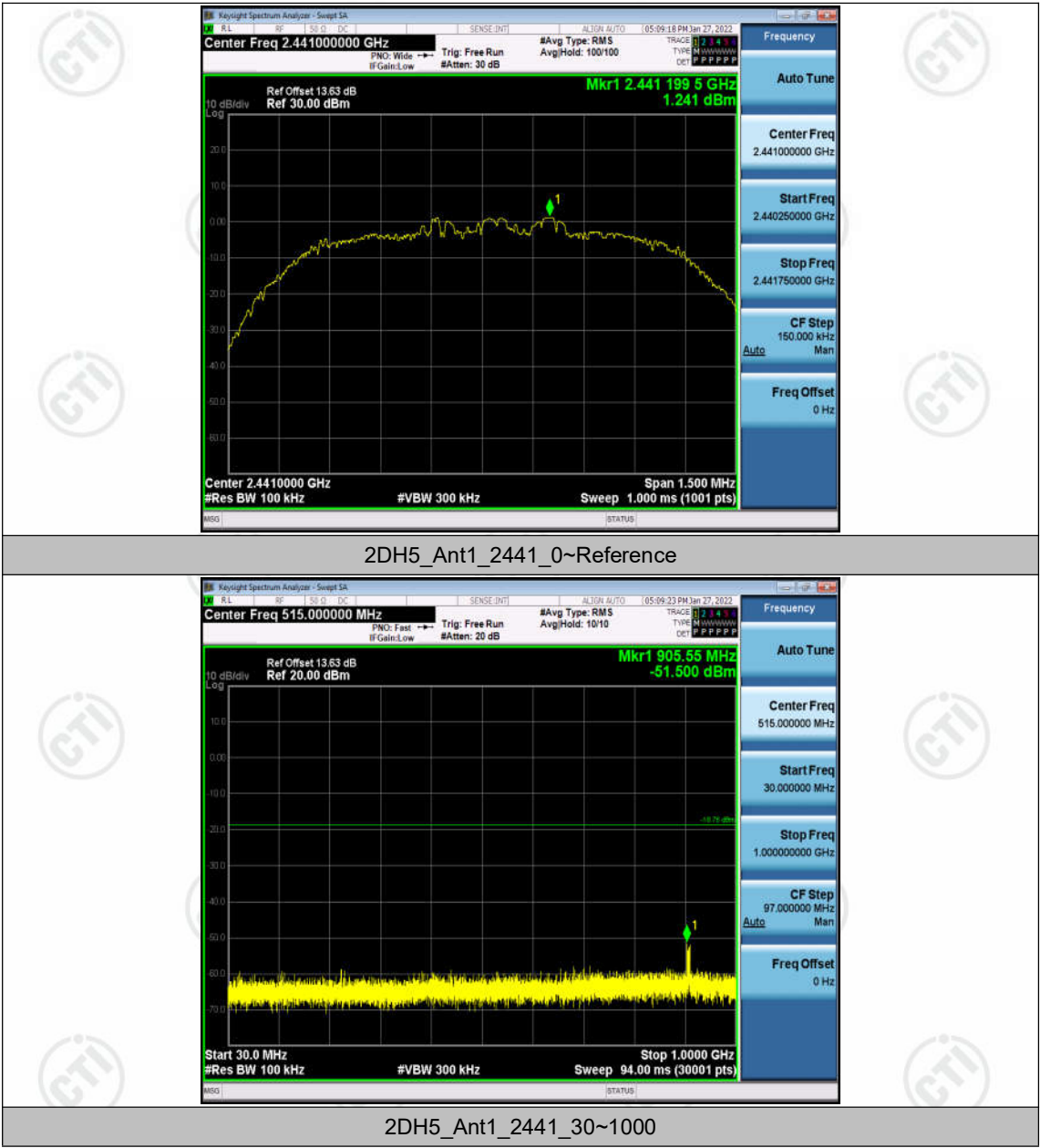


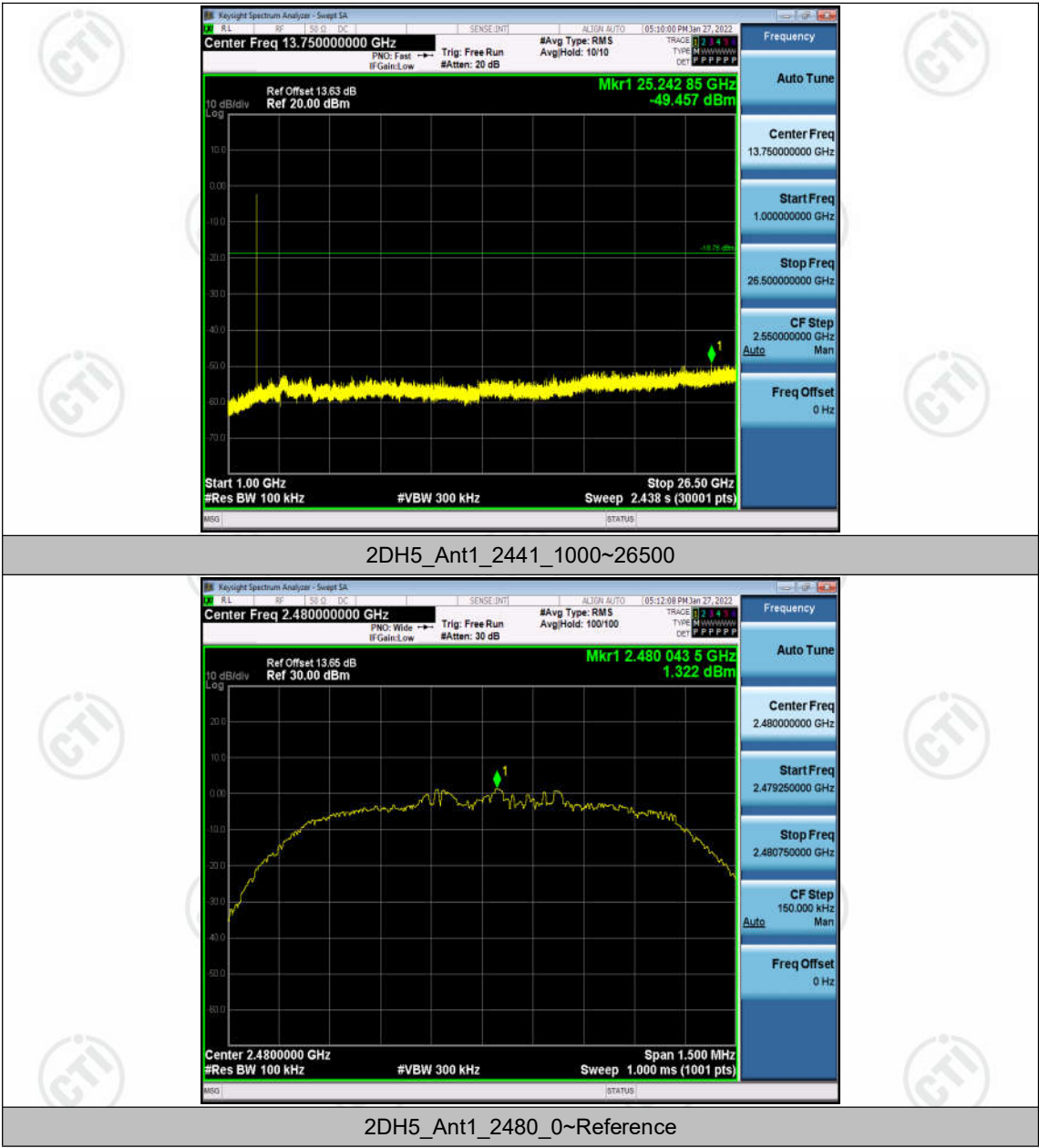


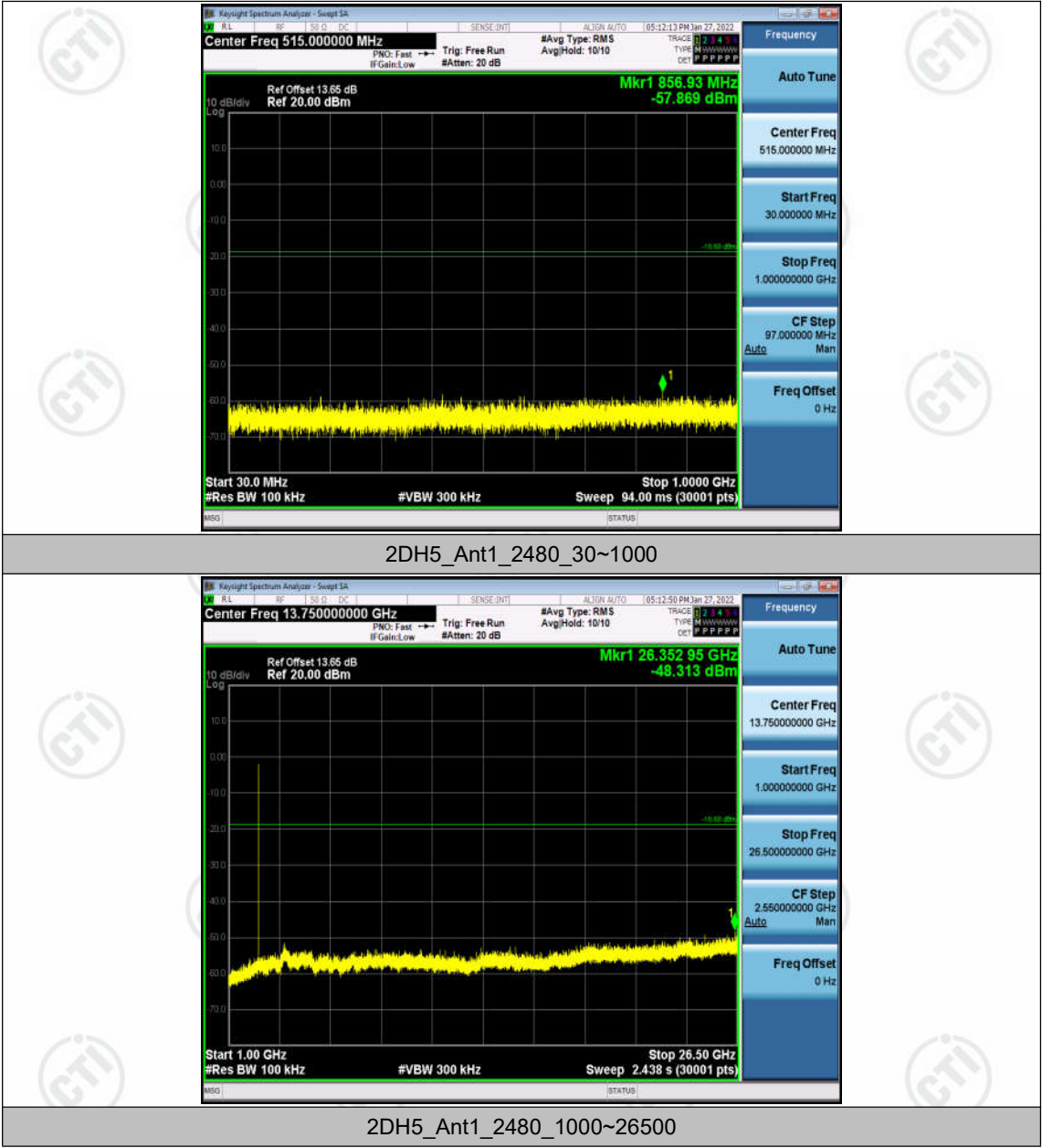


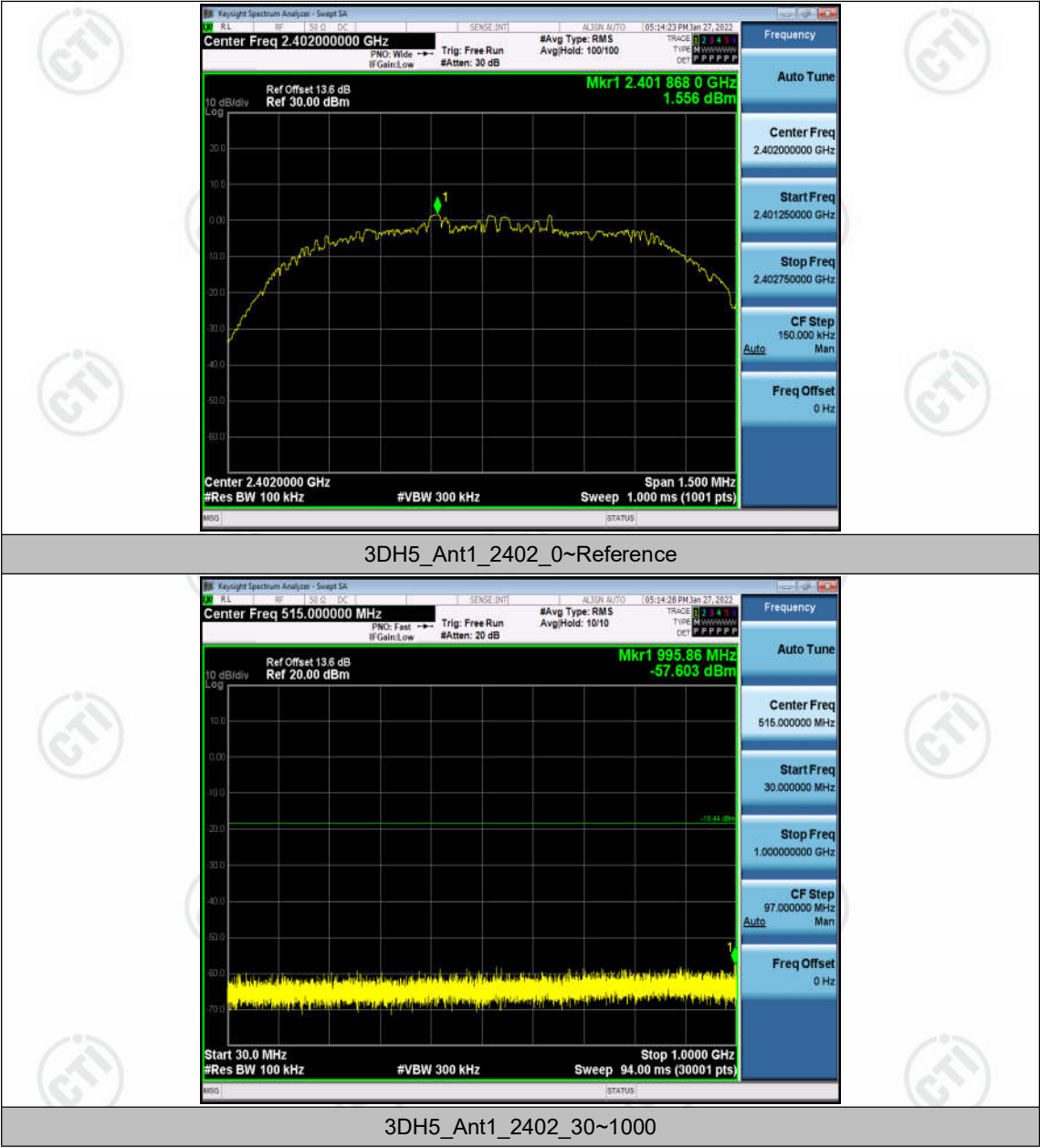


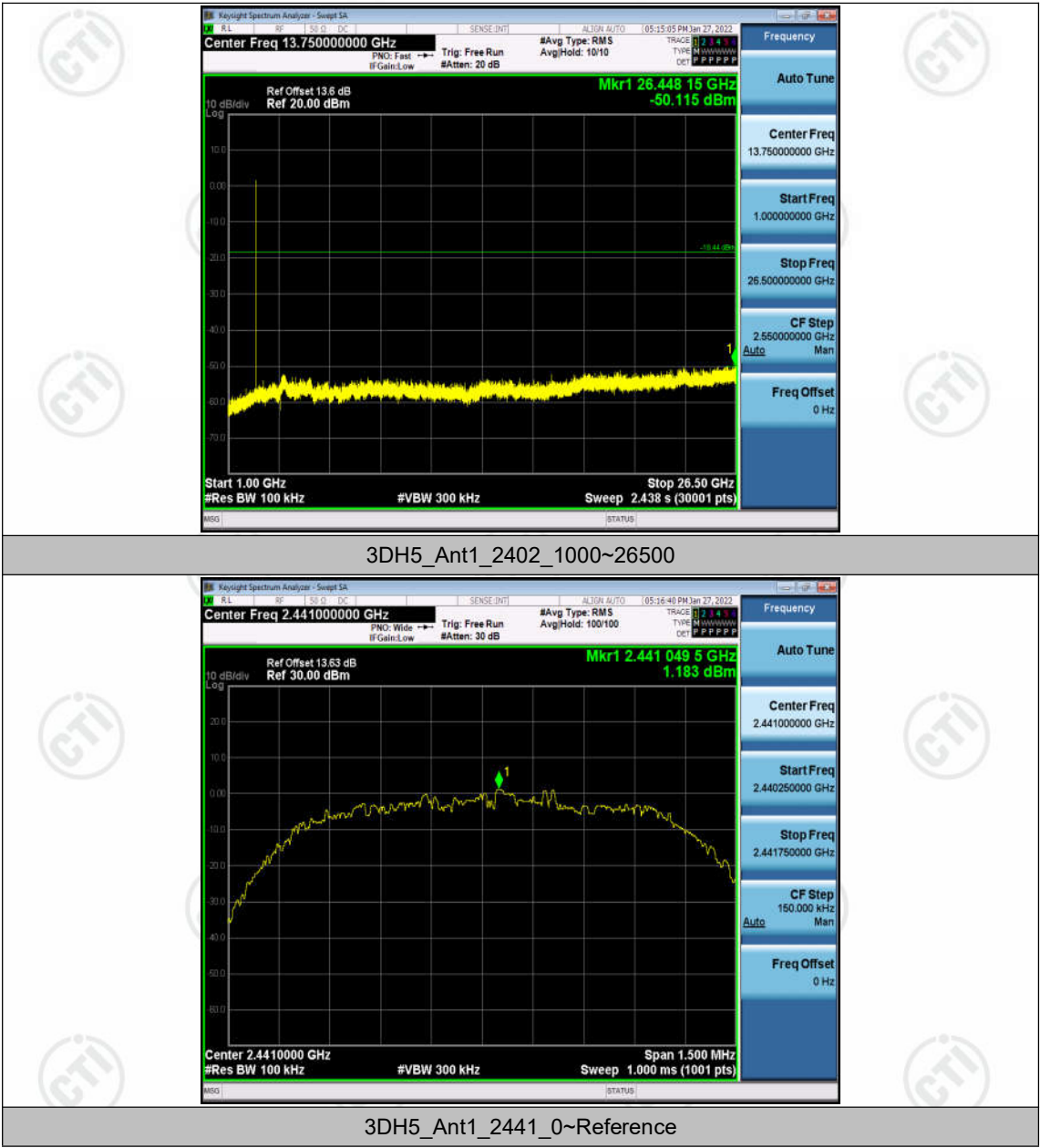


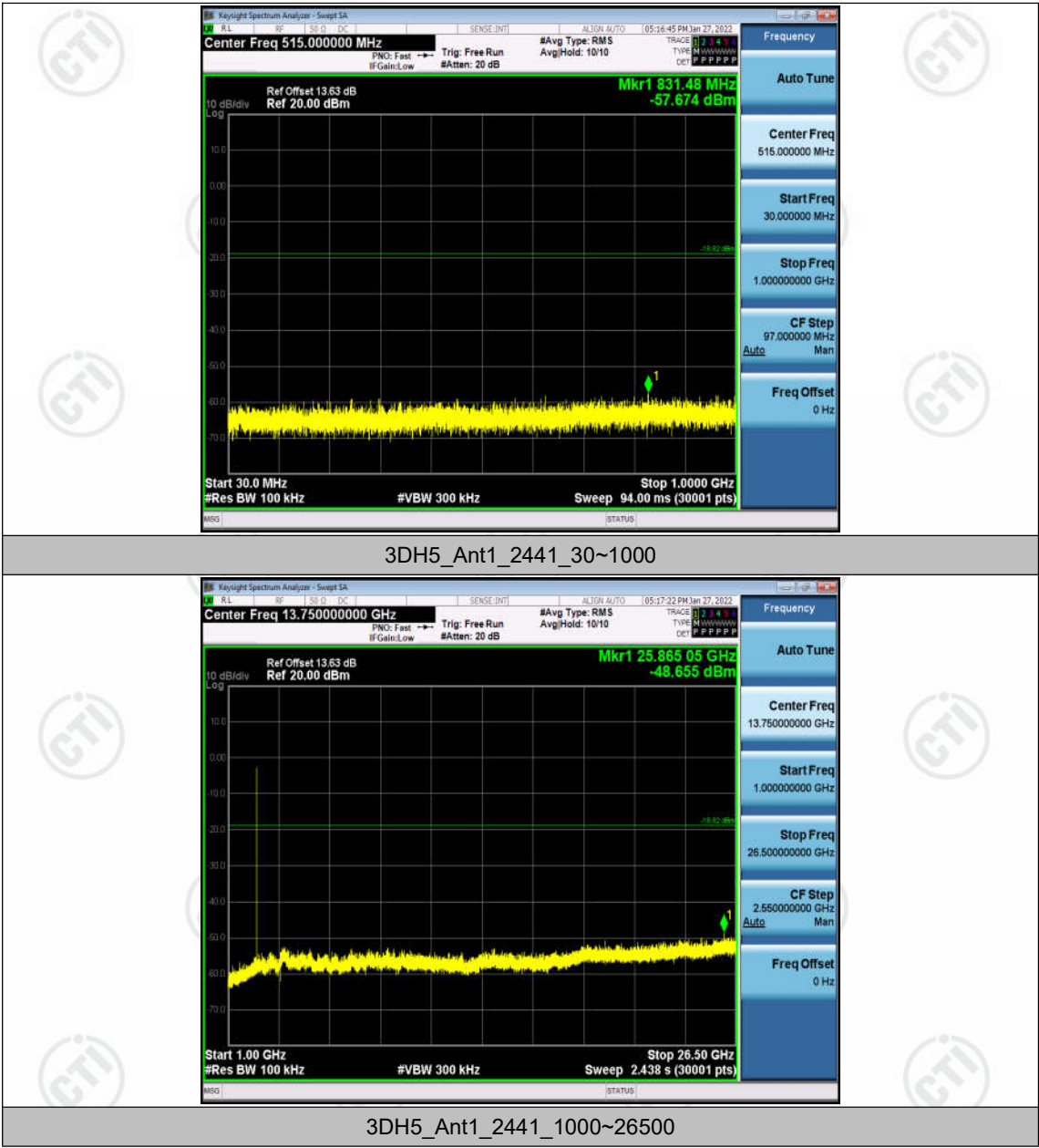


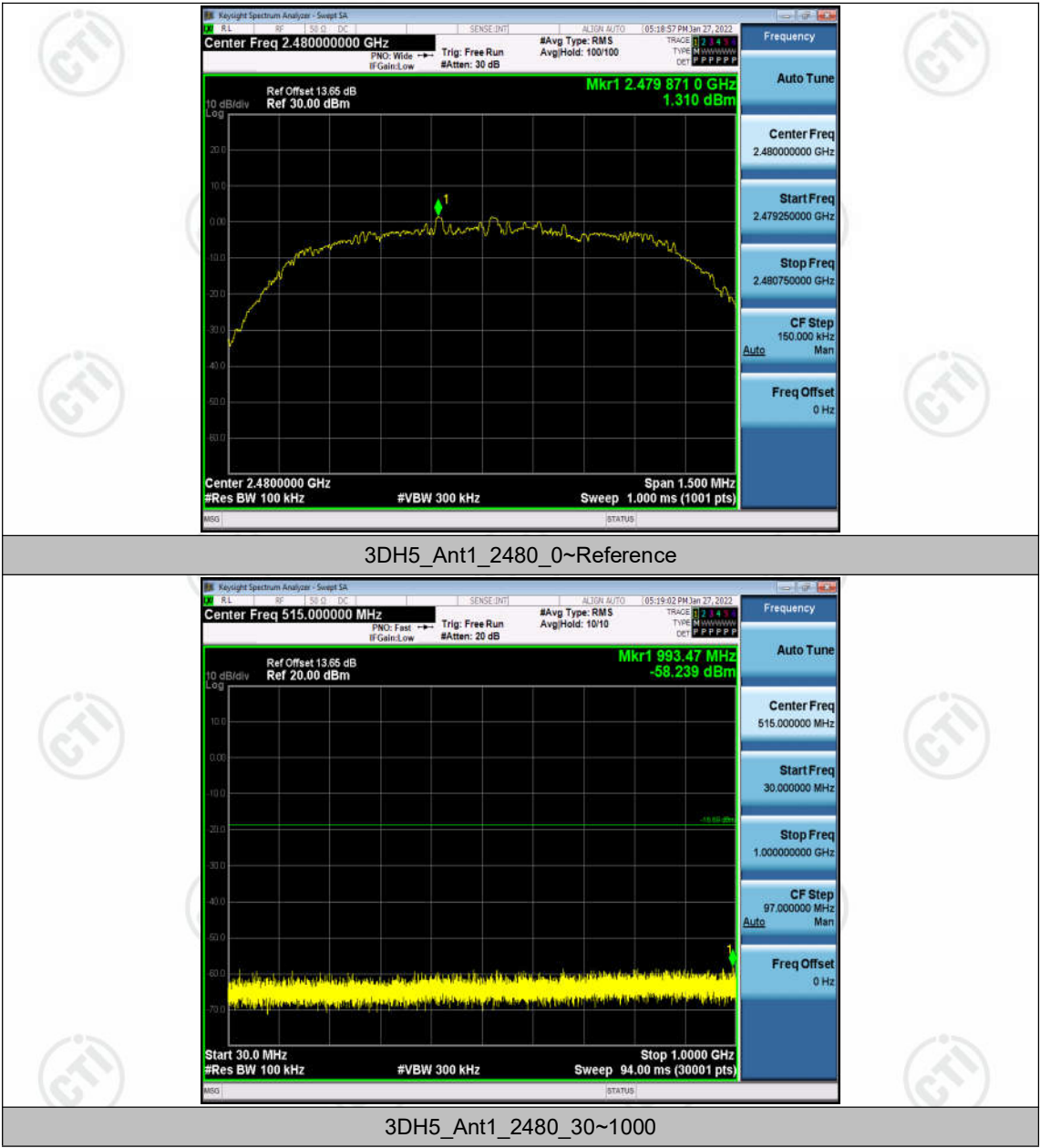


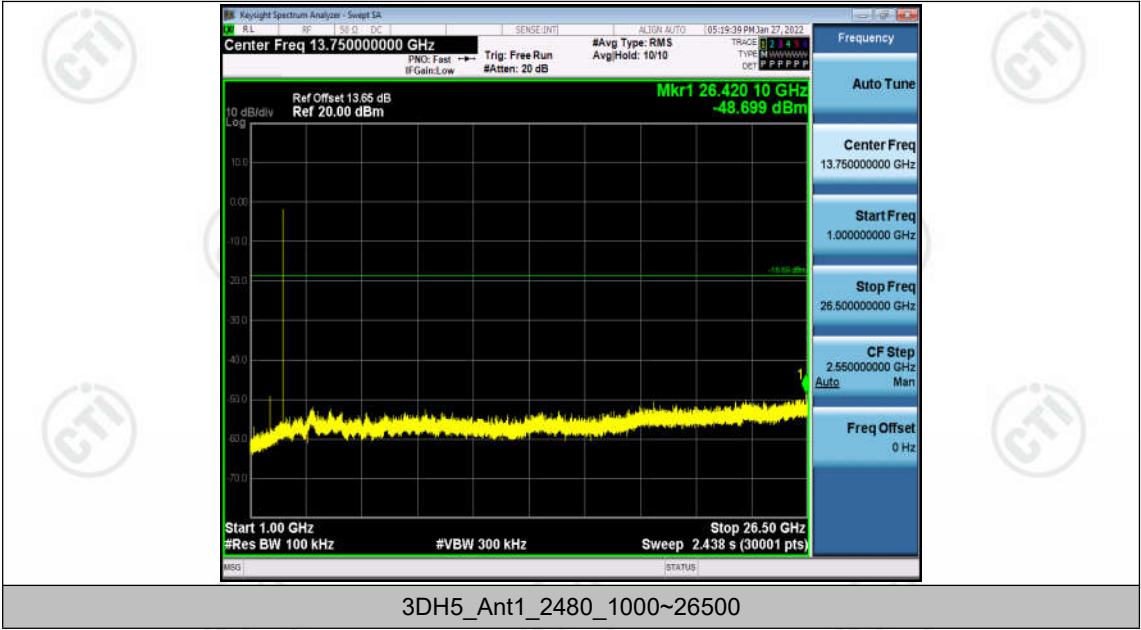










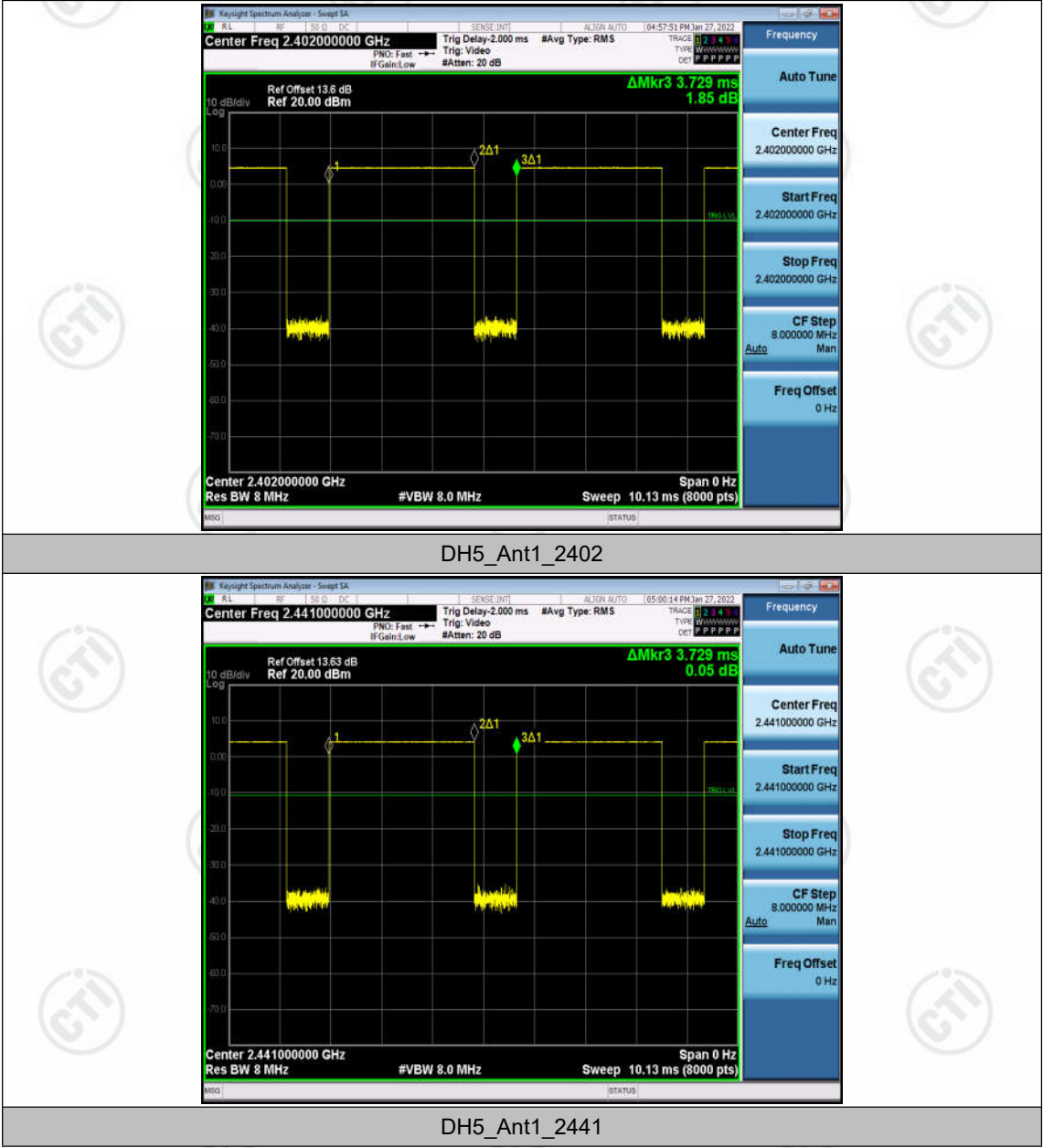


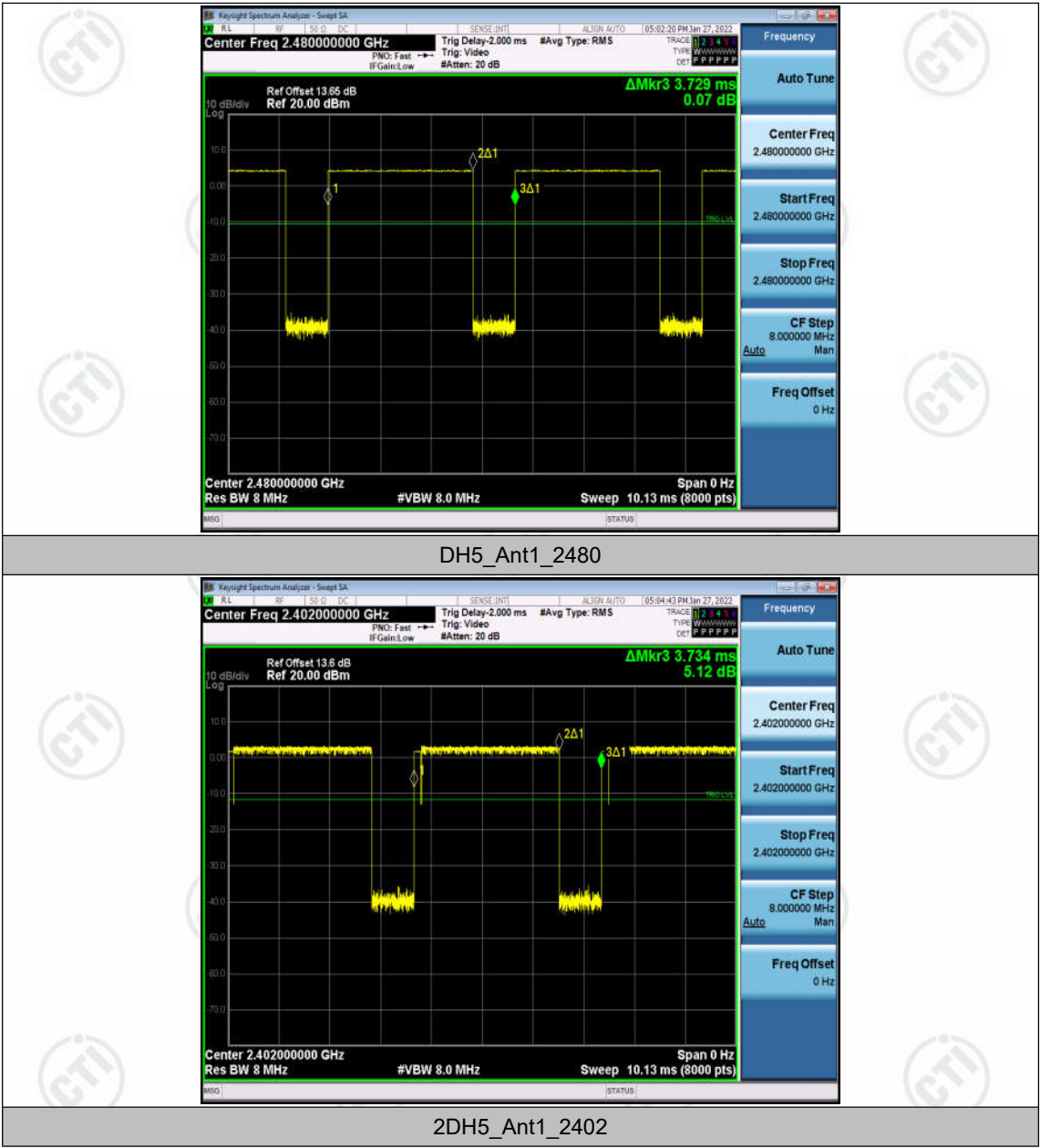
Appendix I: Duty Cycle

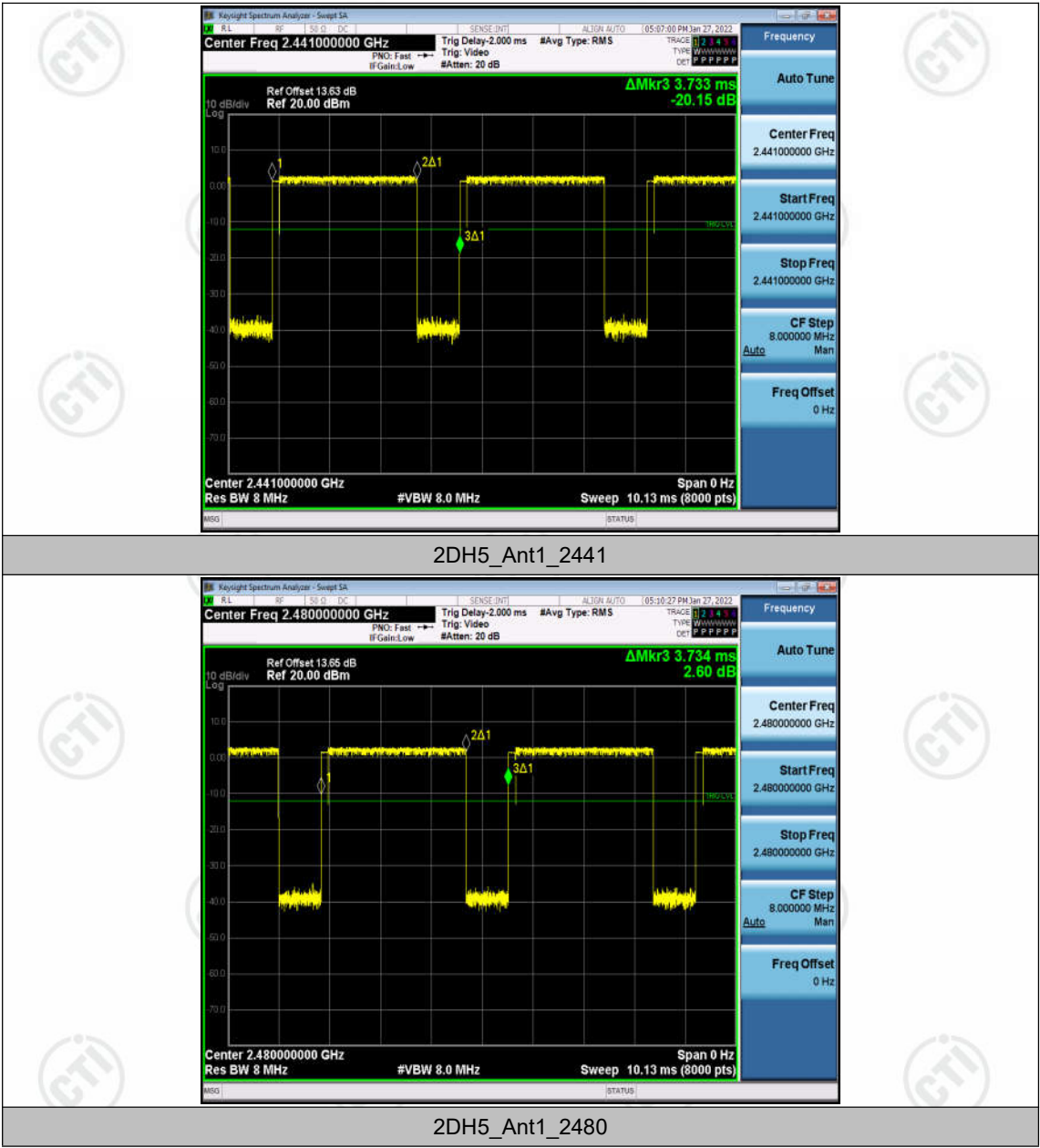
Test Result

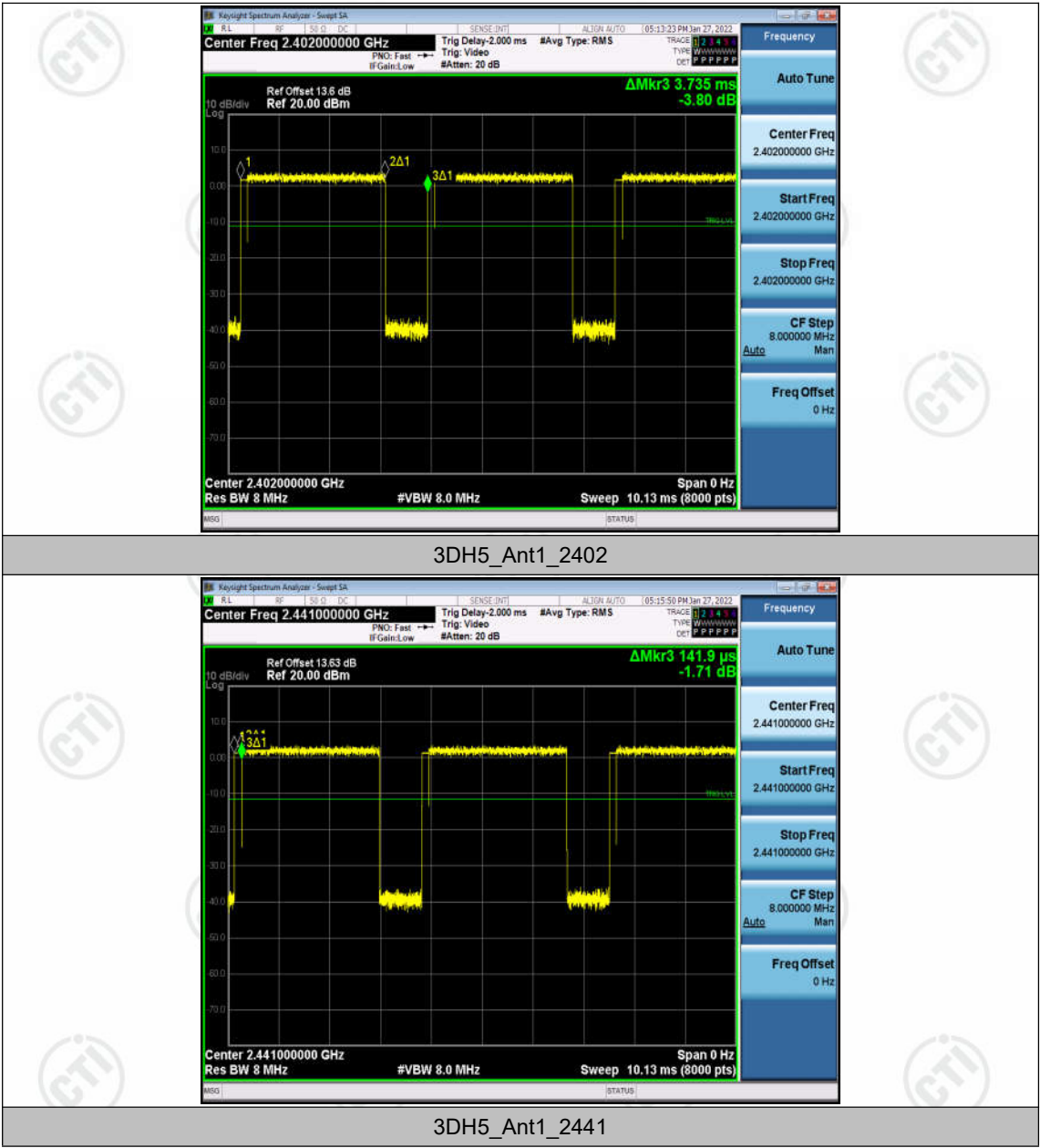
TestMode	Antenna	Channel	TransmissionDuration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.88	3.73	77.28	---	PASS
		2441	2.88	3.73	77.28	---	PASS
		2480	2.88	3.73	77.28	---	PASS
2DH5	Ant1	2402	2.89	3.73	77.31	---	PASS
		2441	2.89	3.73	77.30	---	PASS
		2480	2.89	3.73	77.31	---	PASS
3DH5	Ant1	2402	2.89	3.74	77.31	---	PASS
		2441	0.14	0.14	96.43	---	PASS
		2480	2.89	3.74	77.31	---	PASS

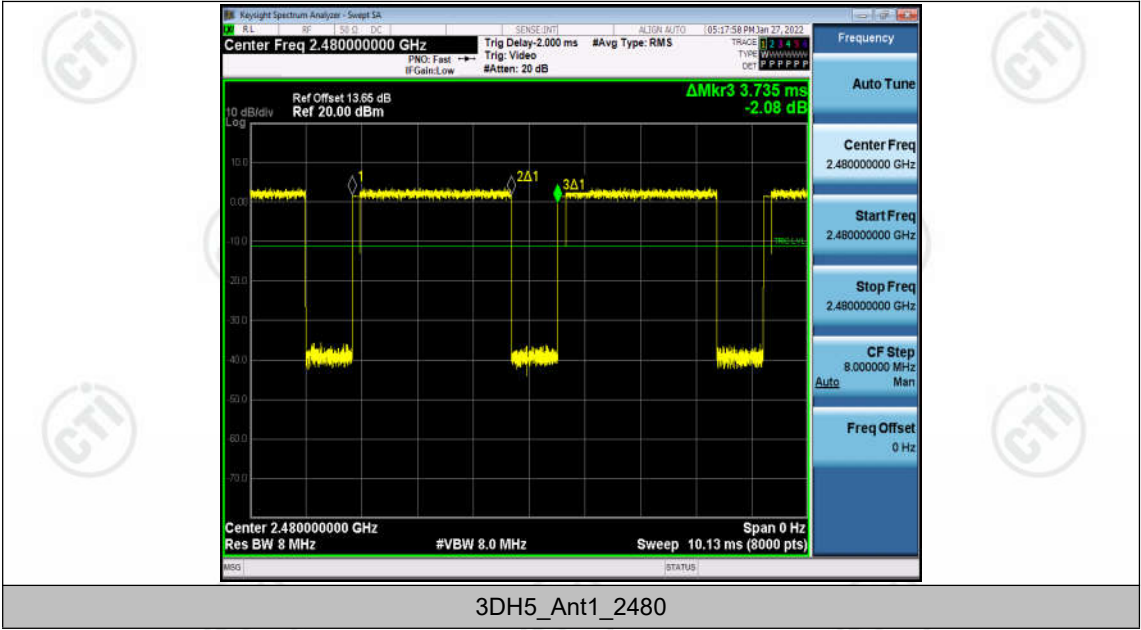
Test Graphs











*** End of Report ***