

FCC Appendix RF Test Data for BT

FCC ID : **2BGRLK10**

Company : **Shenzhen Weikang JuLi Intelligent Technology Co., Ltd**

EUT : **WIRELESS KARAOKE SPEAKER**

Model Number : **K10**

Report No. : **CTA26062602401**

Reviewed By : **Eric Wang**

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.532	2402.471	---	---
		2441	0.957	2440.532	2441.489	---	---
		2480	0.963	2479.532	2480.495	---	---
2DH5	Ant1	2402	1.260	2401.373	2402.633	---	---
		2441	1.254	2440.373	2441.627	---	---
		2480	1.248	2479.379	2480.627	---	---
3DH5	Ant1	2402	1.251	2401.370	2402.621	---	---
		2441	1.281	2440.355	2441.636	---	---
		2480	1.248	2479.367	2480.615	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

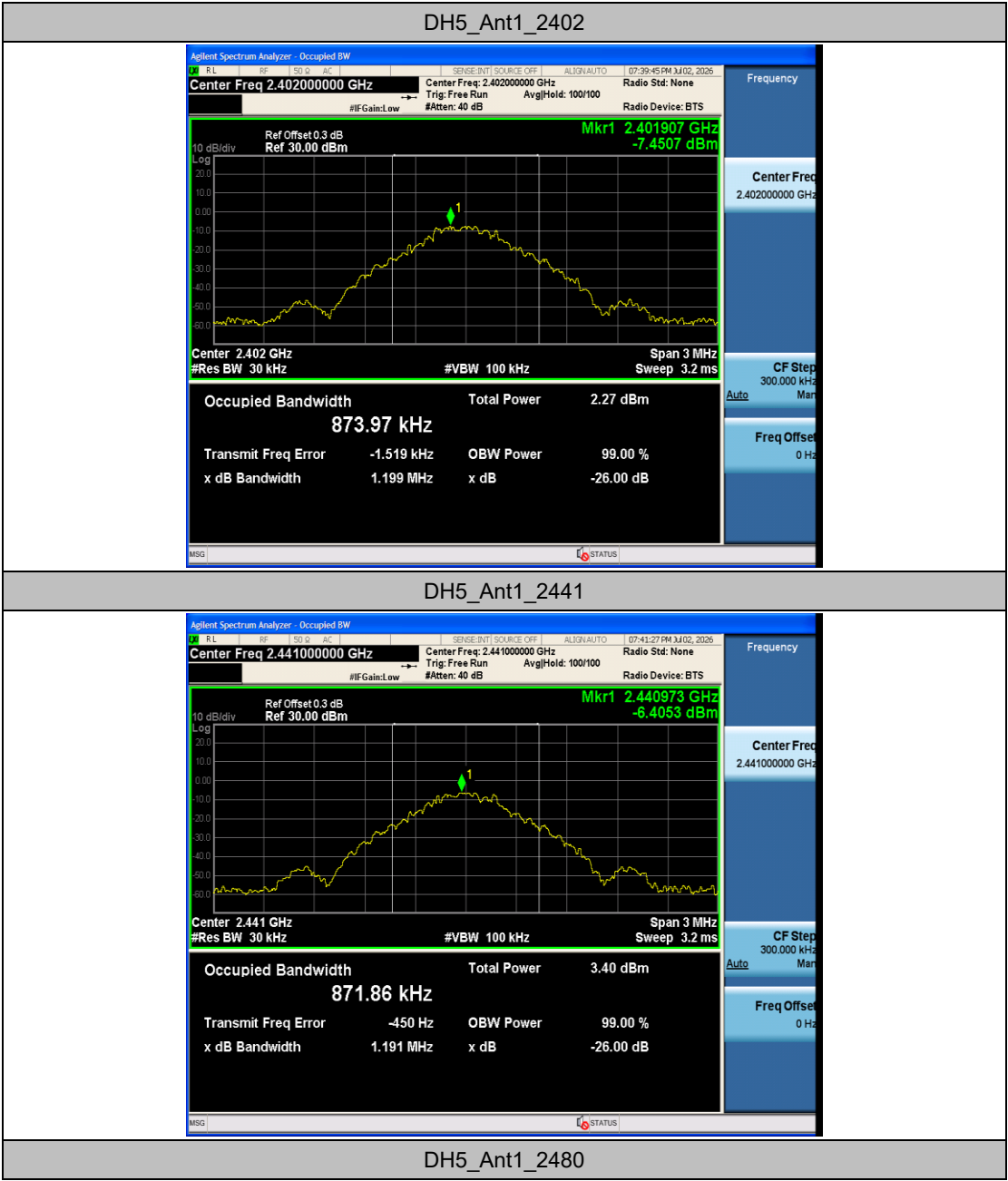


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87397	2401.5615	2402.4355	---	---
		2441	0.87186	2440.5636	2441.4355	---	---
		2480	0.87105	2479.5620	2480.4331	---	---
2DH5	Ant1	2402	1.1648	2401.4149	2402.5797	---	---
		2441	1.1566	2440.4186	2441.5752	---	---
		2480	1.1643	2479.4151	2480.5794	---	---
3DH5	Ant1	2402	1.1527	2401.4284	2402.5811	---	---
		2441	1.1507	2440.4236	2441.5743	---	---
		2480	1.1675	2479.4185	2480.5860	---	---

Test Graphs





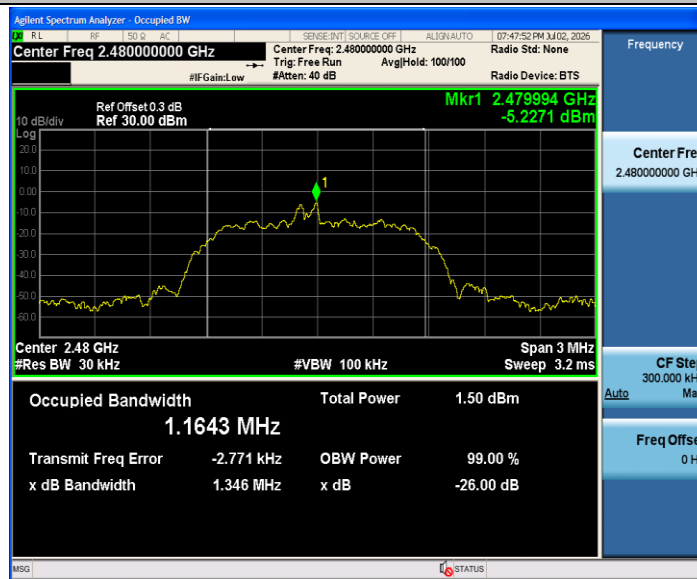
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

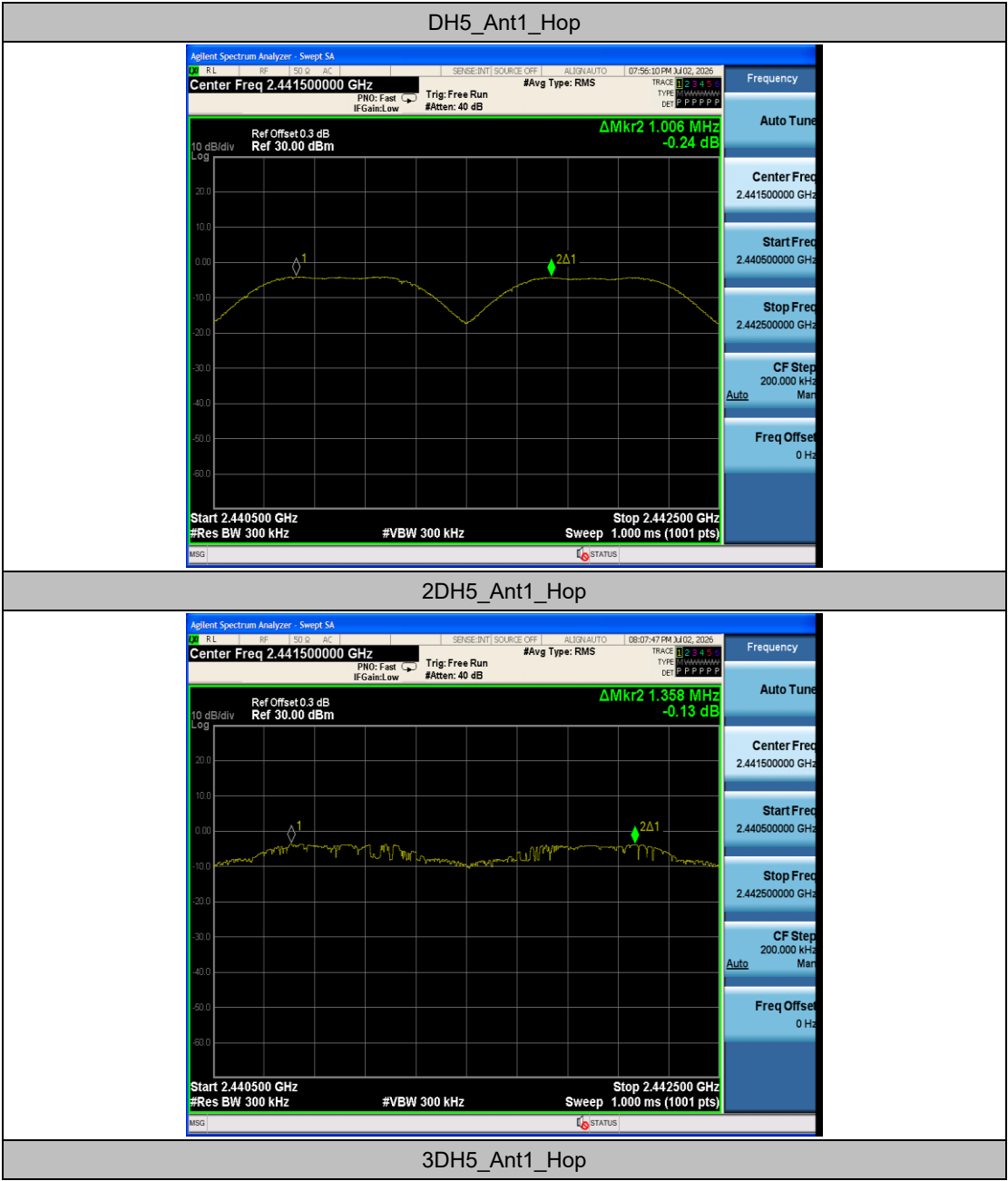
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-4.62	≤20.97	PASS
		2441	-3.44	≤20.97	PASS
		2480	-3.20	≤20.97	PASS
2DH5	Ant1	2402	-4.91	≤20.97	PASS
		2441	-3.77	≤20.97	PASS
		2480	-3.45	≤20.97	PASS
3DH5	Ant1	2402	-5.02	≤20.97	PASS
		2441	-3.92	≤20.97	PASS
		2480	-3.55	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.006	≥ 0.963	PASS
2DH5	Ant1	Hop	1.358	≥ 1.260	PASS
3DH5	Ant1	Hop	1.02	≥ 0.854	PASS

Test Graphs



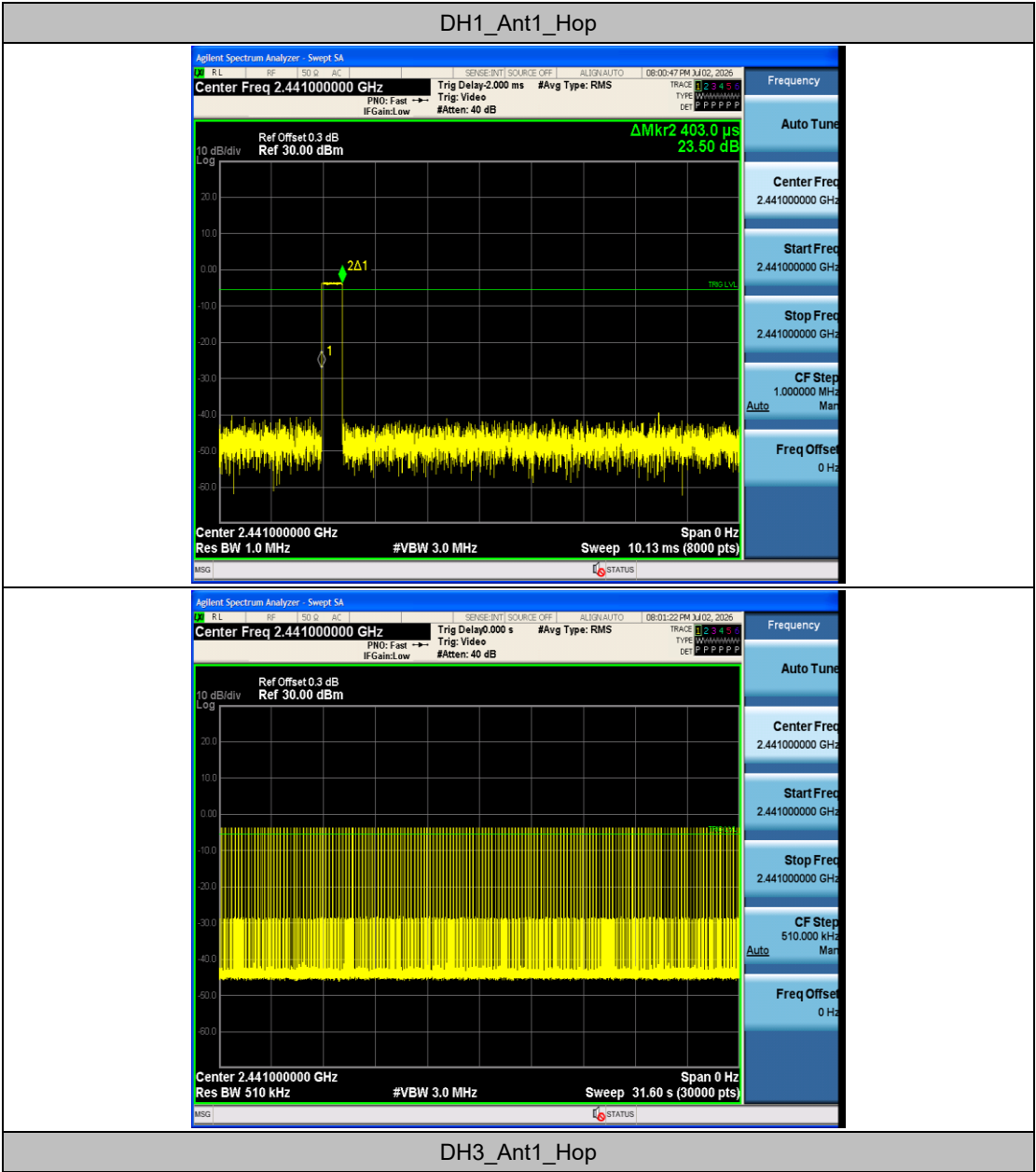


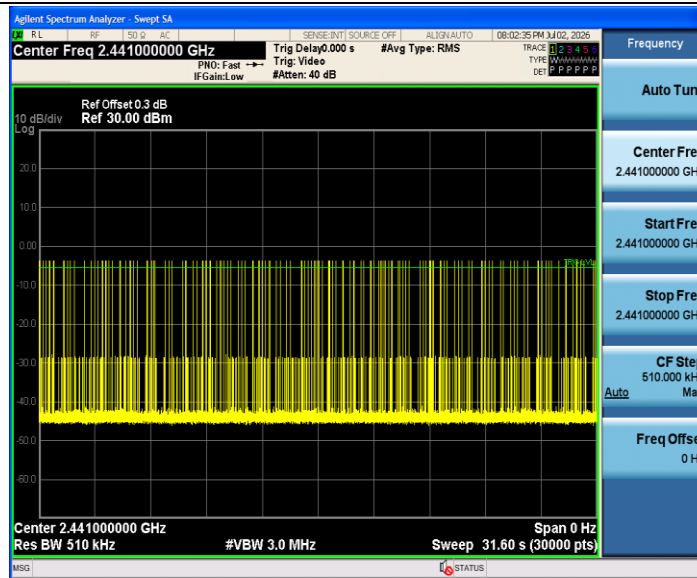
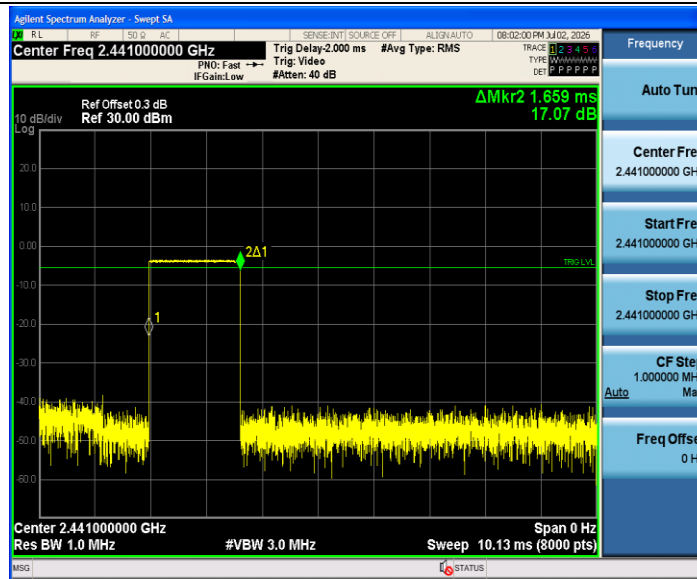
Appendix E: Time of occupancy

Test Result

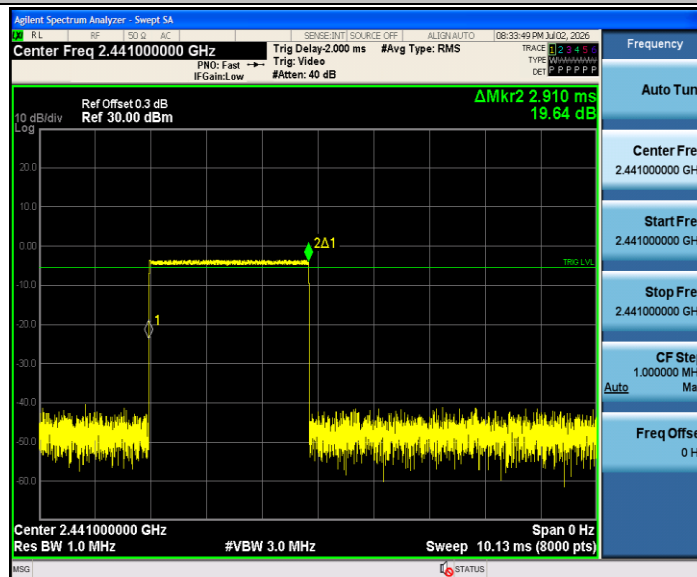
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.403	319	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.659	150	0.249	≤0.4	PASS
DH5	Ant1	Hop	2.910	115	0.335	≤0.4	PASS
2DH1	Ant1	Hop	0.413	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.663	166	0.276	≤0.4	PASS
2DH5	Ant1	Hop	2.912	108	0.314	≤0.4	PASS
3DH1	Ant1	Hop	0.413	317	0.131	≤0.4	PASS
3DH3	Ant1	Hop	1.662	160	0.266	≤0.4	PASS
3DH5	Ant1	Hop	2.913	100	0.291	≤0.4	PASS

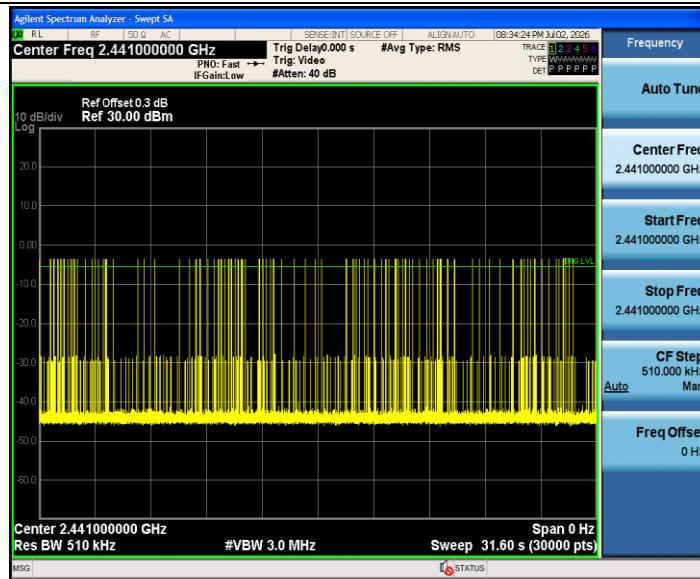
Test Graphs



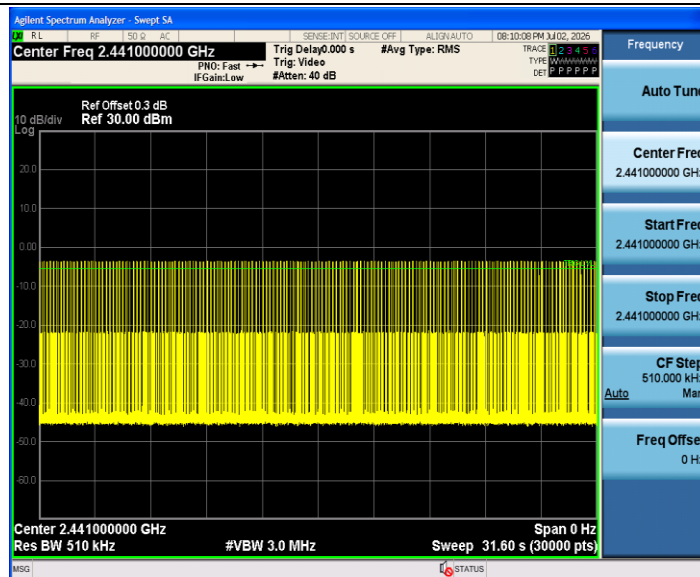
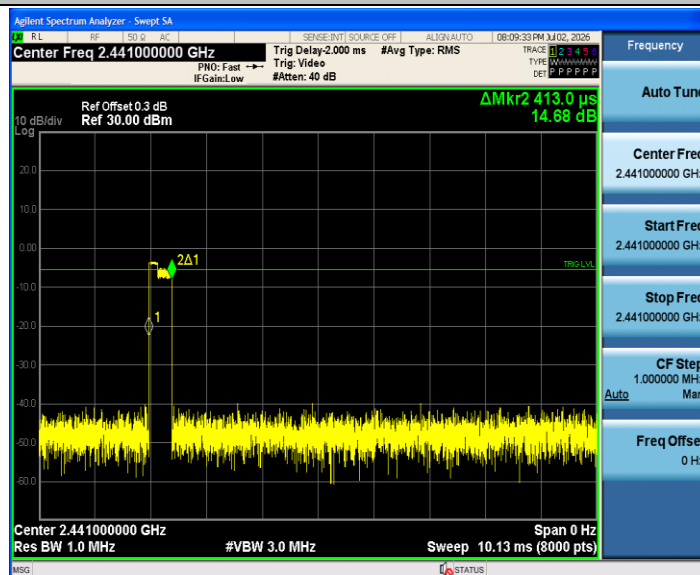


DH5_Ant1_Hop

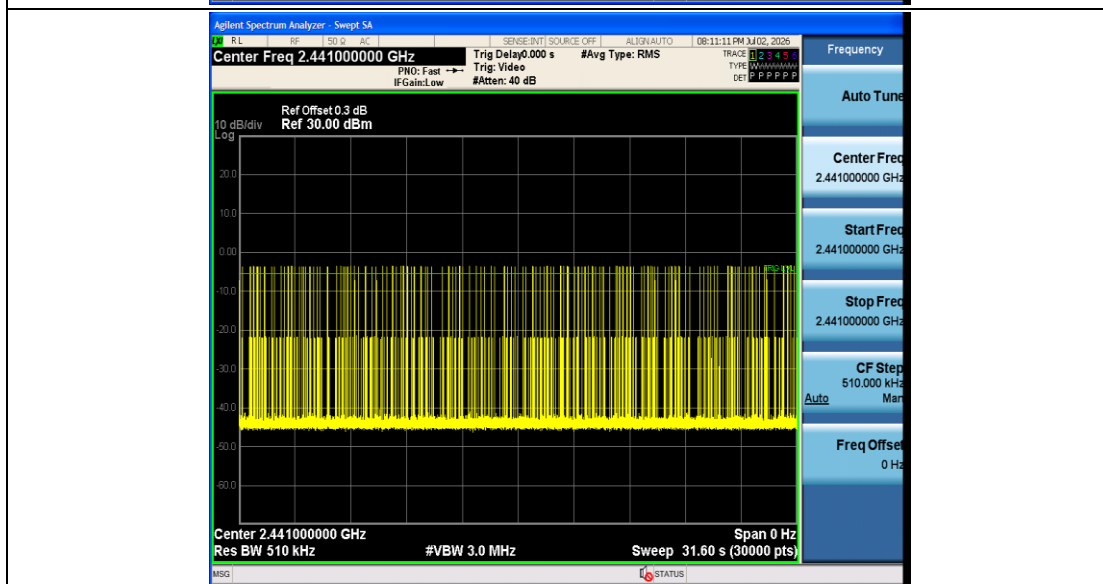
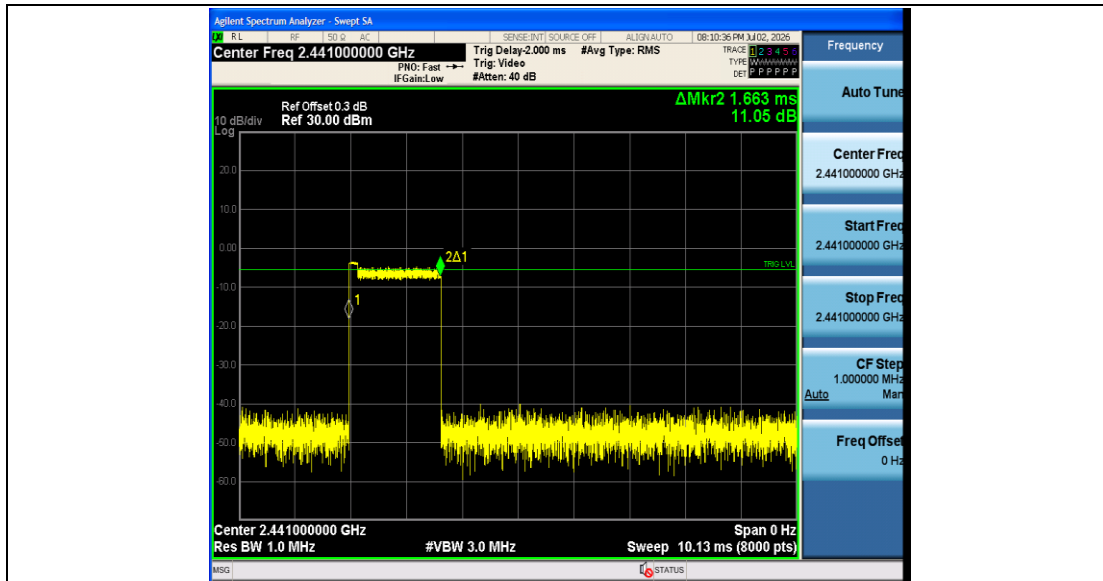




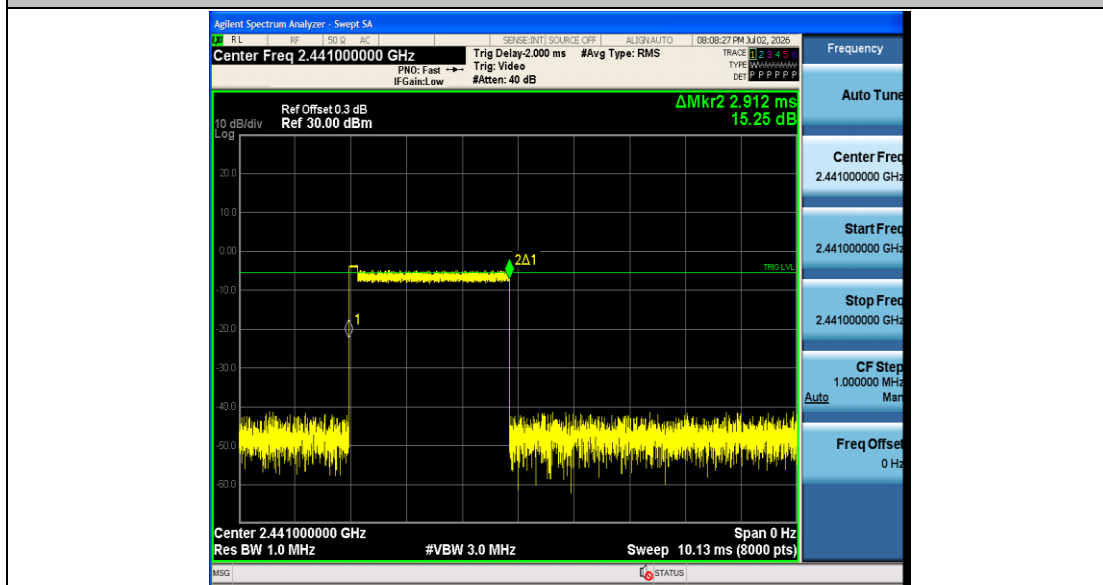
2DH1_Ant1_Hop

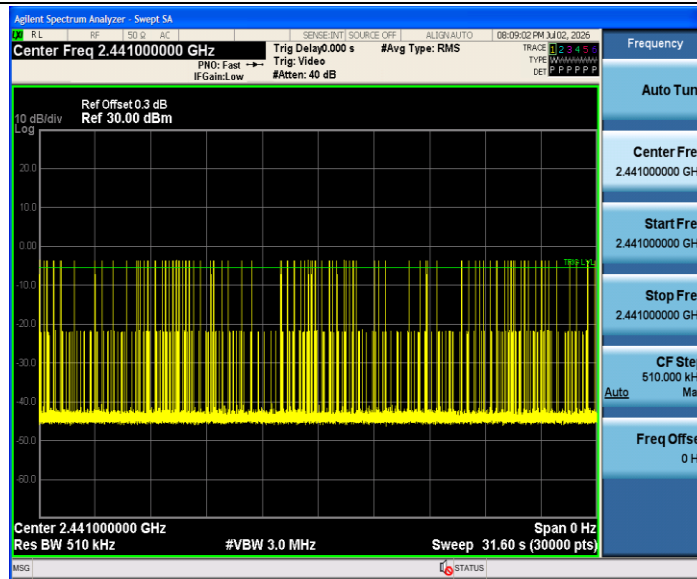


2DH3_Ant1_Hop

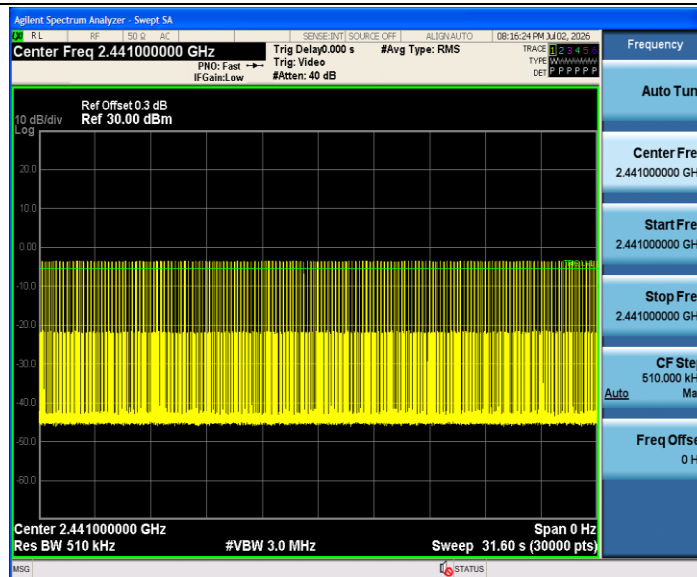
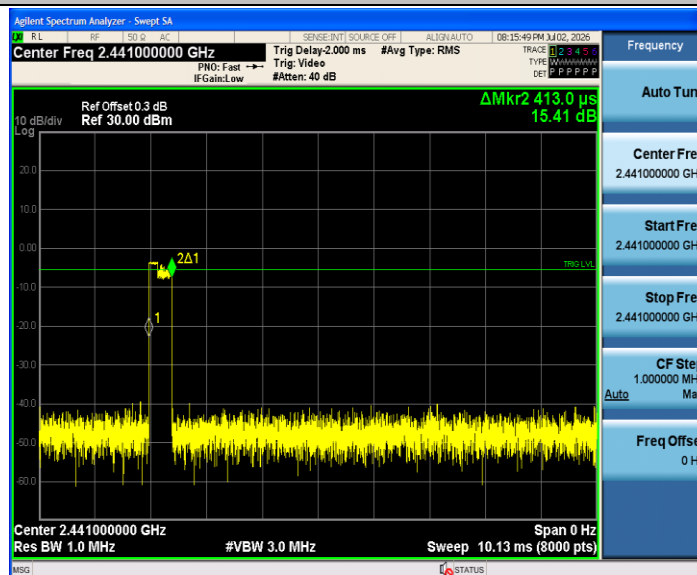


2DH5_Ant1_Hop

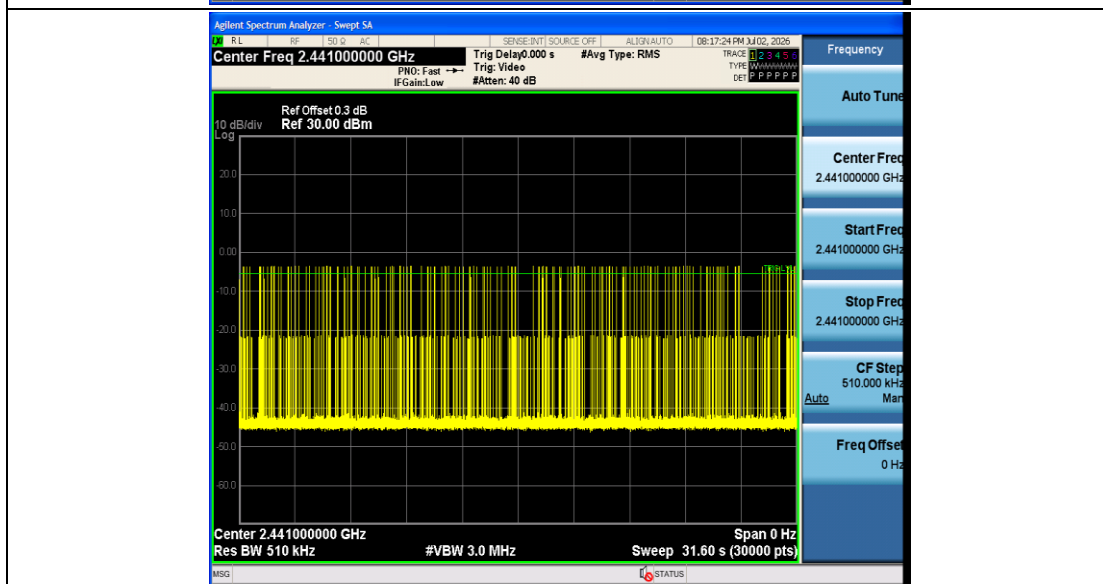
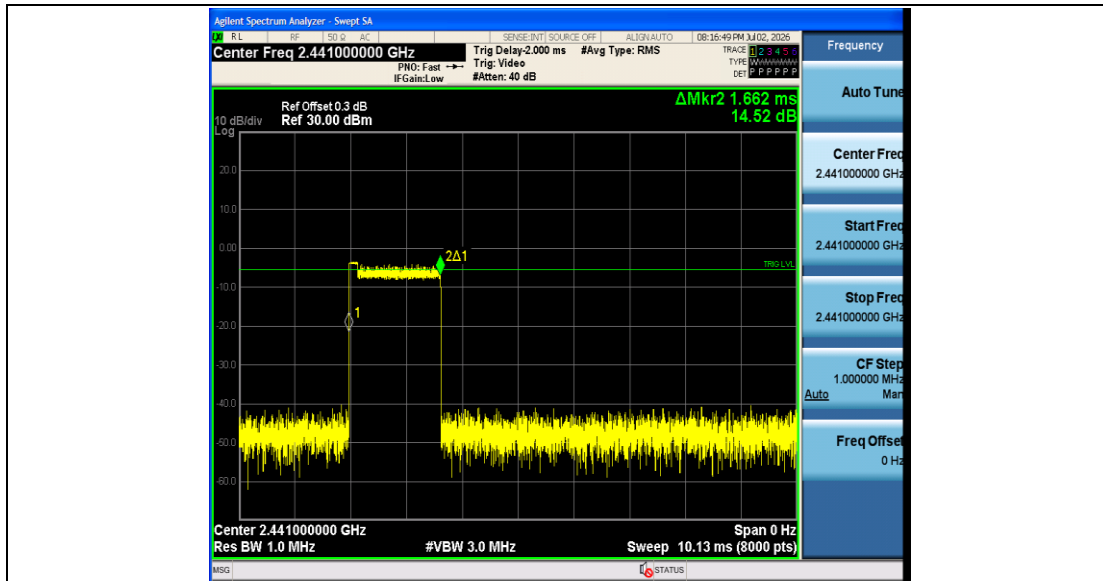




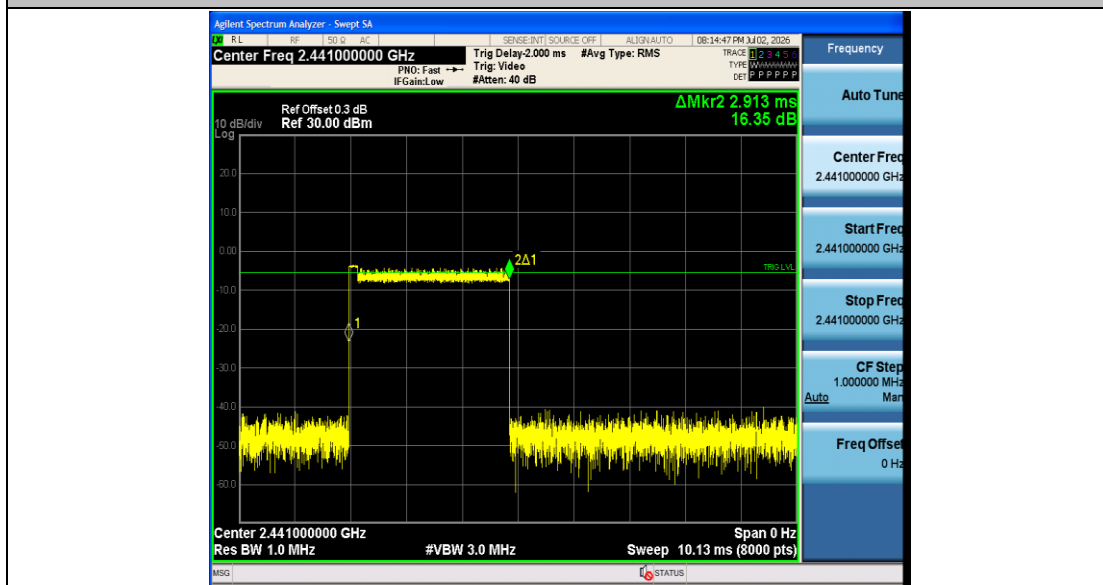
3DH1_Ant1_Hop

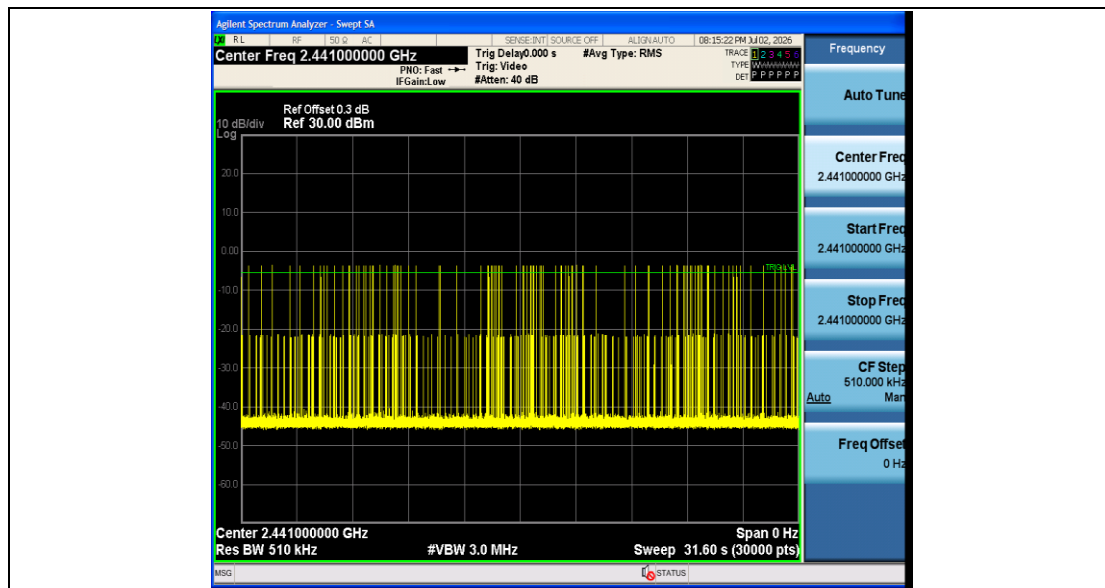


3DH3_Ant1_Hop



3DH5_Ant1_Hop



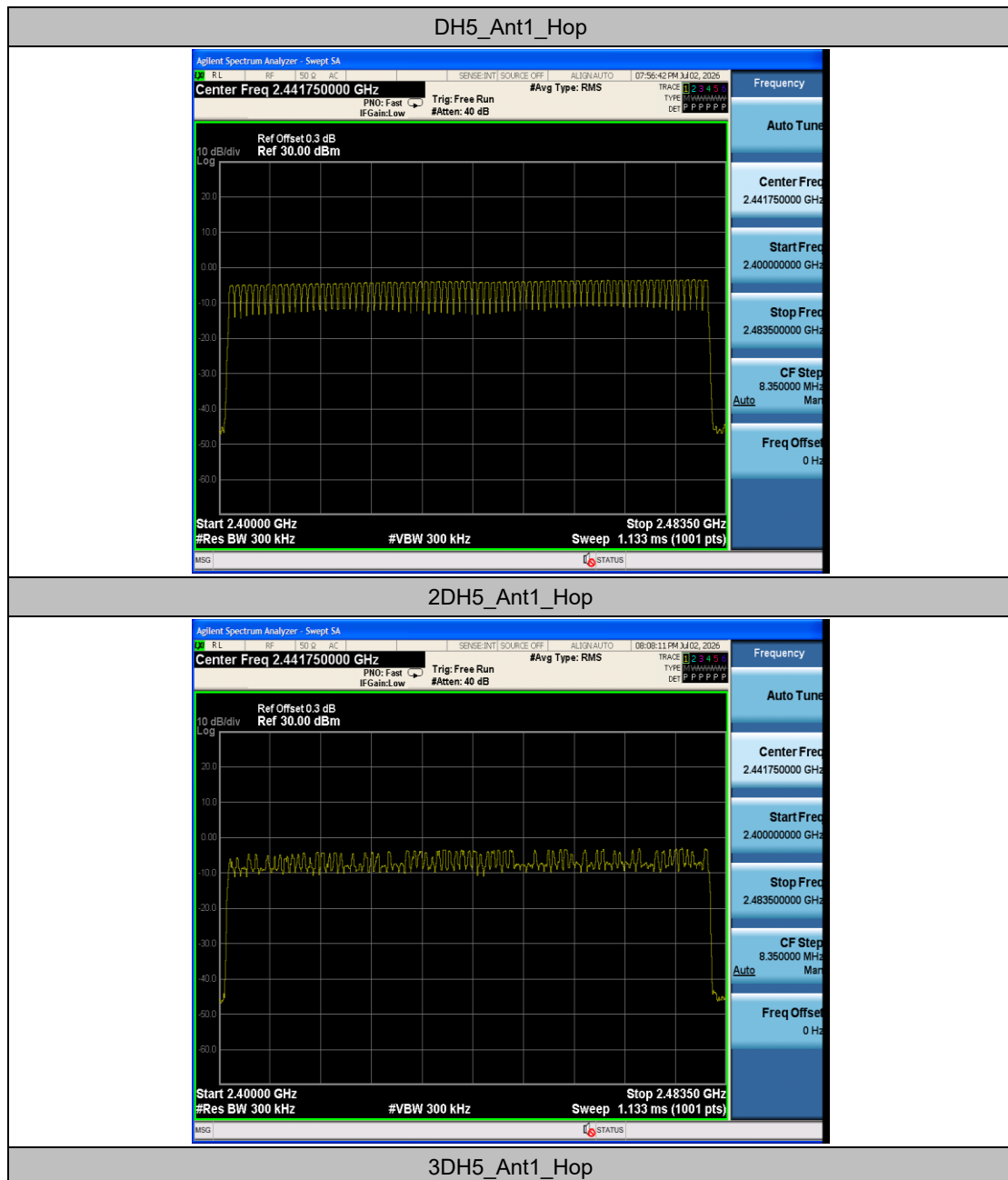


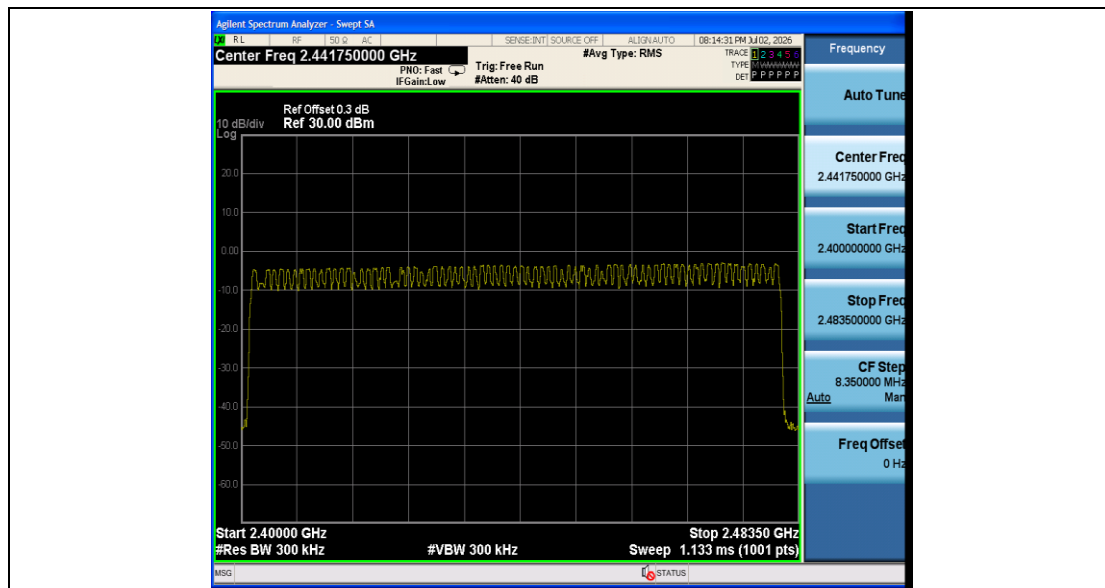
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	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



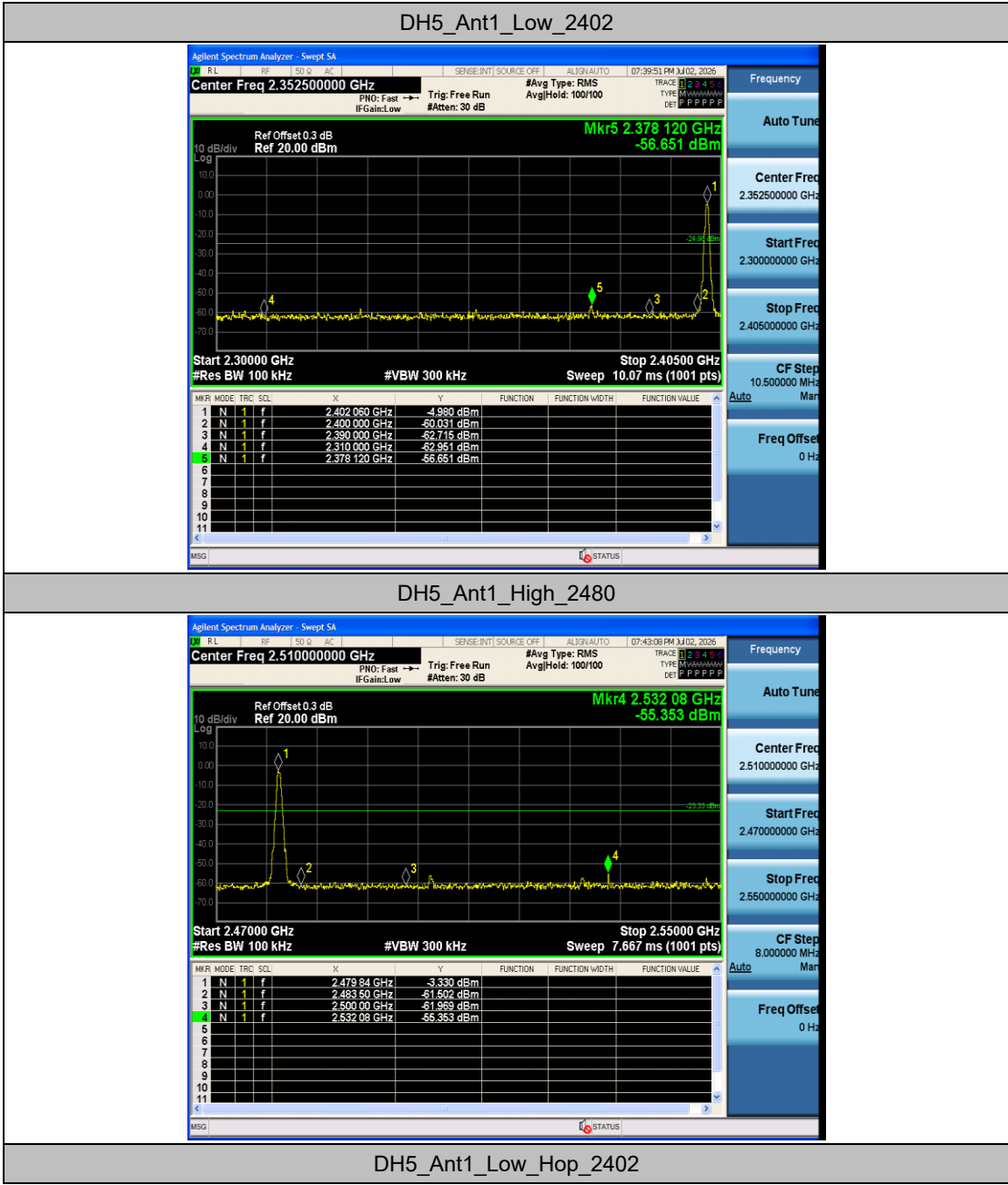


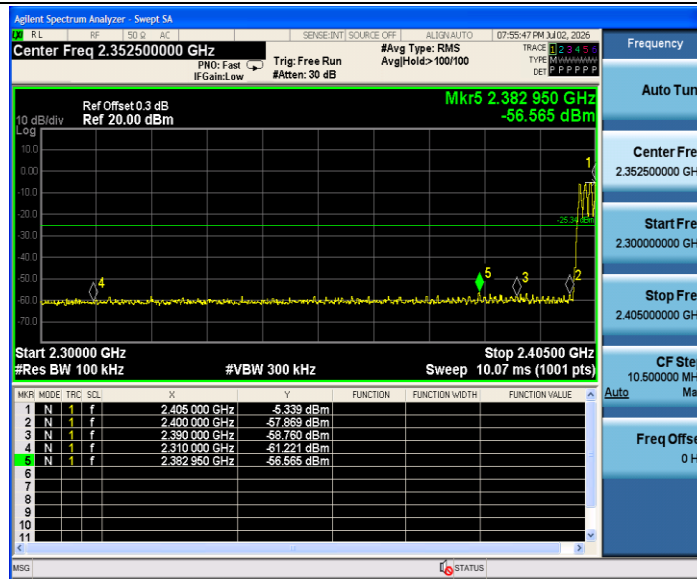
Appendix G: Band edge measurements

Test Result

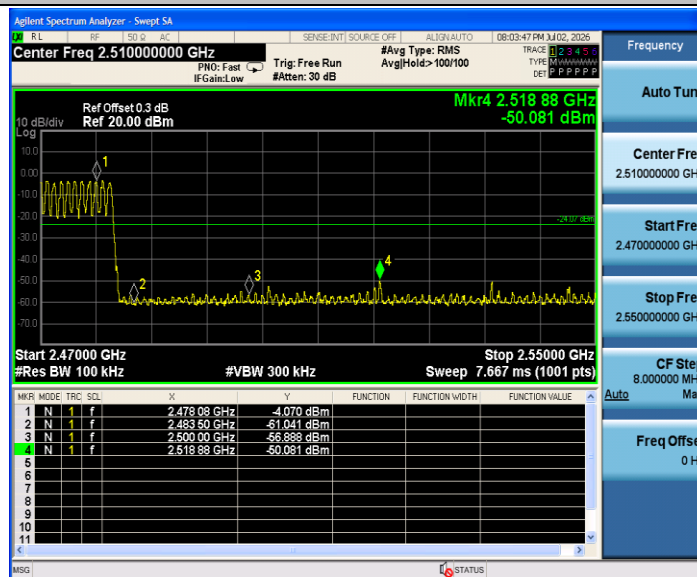
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.98	-56.65	≤-24.98	PASS
		High	2480	-3.33	-55.35	≤-23.33	PASS
		Low	Hop_2402	-5.34	-56.57	≤-25.34	PASS
		High	Hop_2480	-4.07	-50.08	≤-24.07	PASS
2DH5	Ant1	Low	2402	-5.17	-58.14	≤-25.17	PASS
		High	2480	-6.05	-58.54	≤-26.05	PASS
		Low	Hop_2402	-4.87	-54.1	≤-24.87	PASS
		High	Hop_2480	-3.34	-50.74	≤-23.34	PASS
3DH5	Ant1	Low	2402	-10.78	-58.3	≤-30.78	PASS
		High	2480	-4.35	-54.32	≤-24.35	PASS
		Low	Hop_2402	-9.02	-58.71	≤-29.02	PASS
		High	Hop_2480	-7.10	-57.22	≤-27.1	PASS

Test Graphs

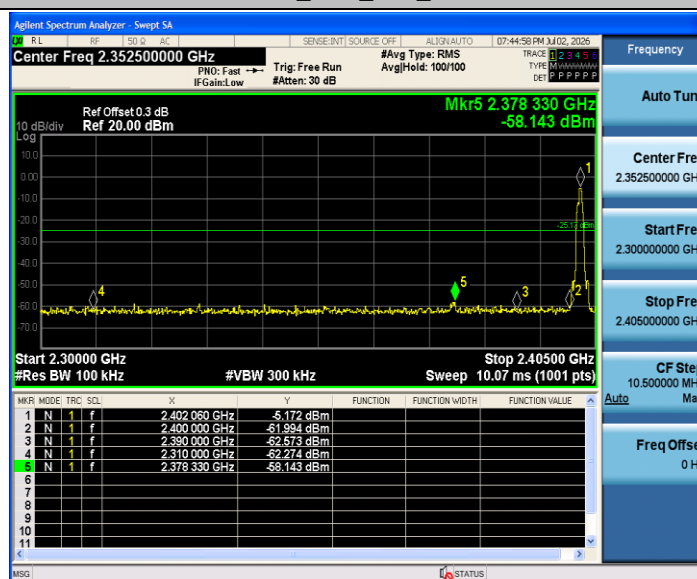




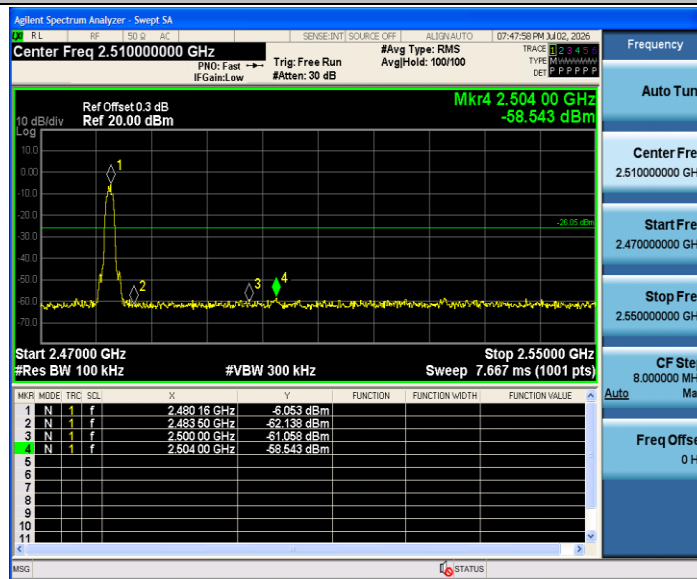
DH5_Ant1_High_Hop_2480



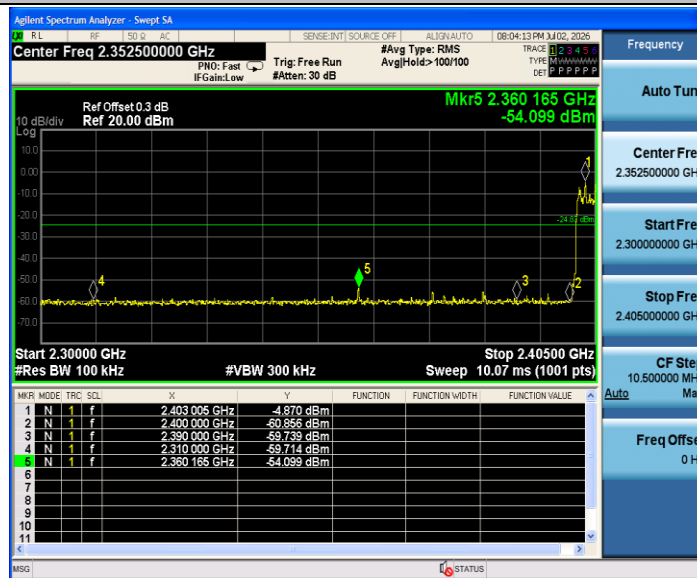
2DH5_Ant1_Low_2402



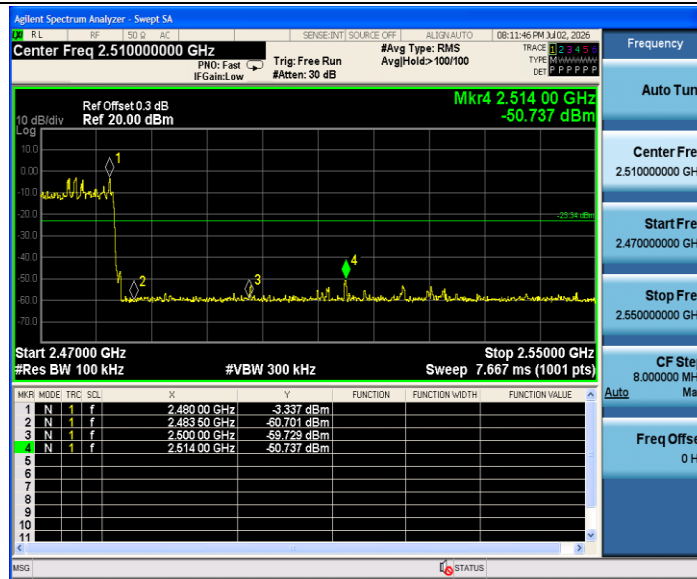
2DH5_Ant1_High_2480



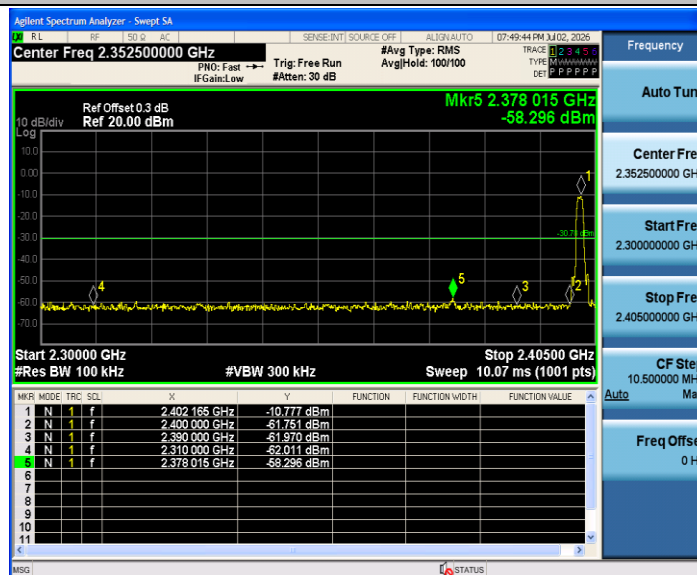
2DH5_Ant1_Low_Hop_2402



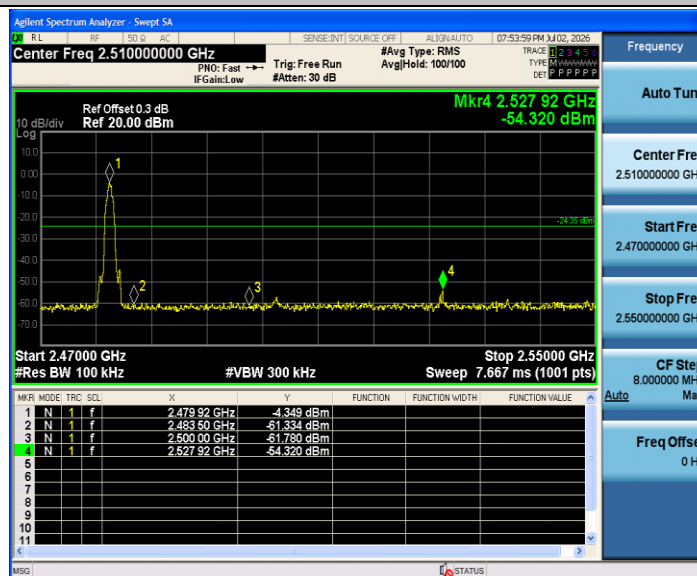
2DH5_Ant1_High_Hop_2480



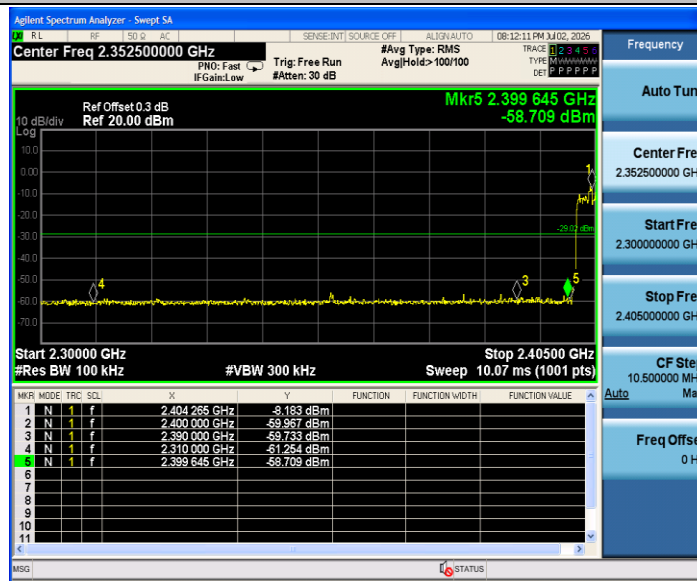
3DH5_Ant1_Low_2402



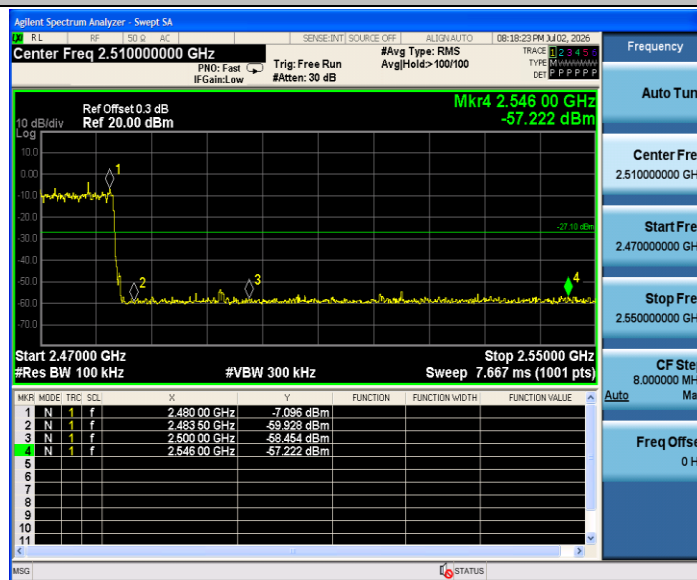
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

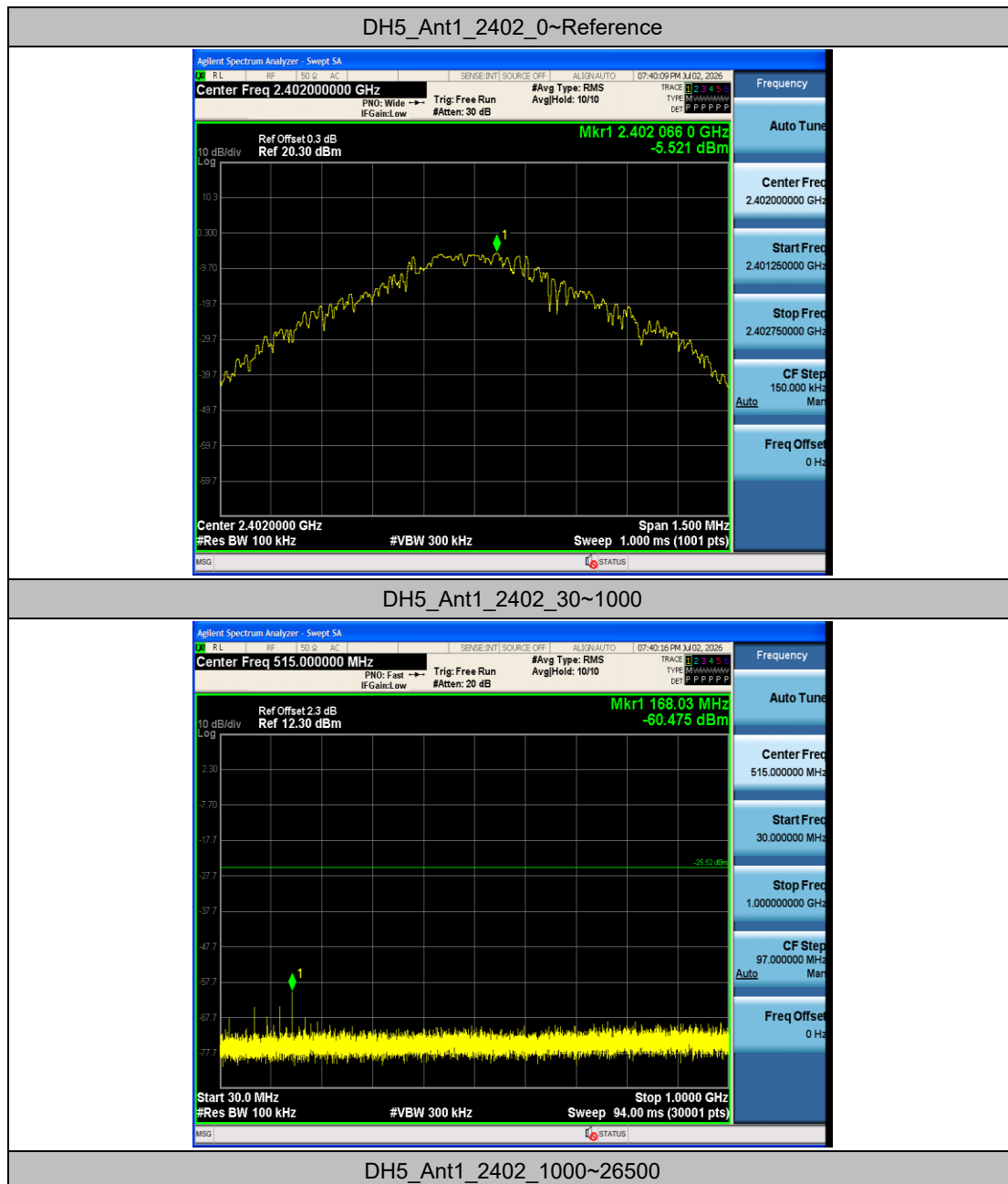


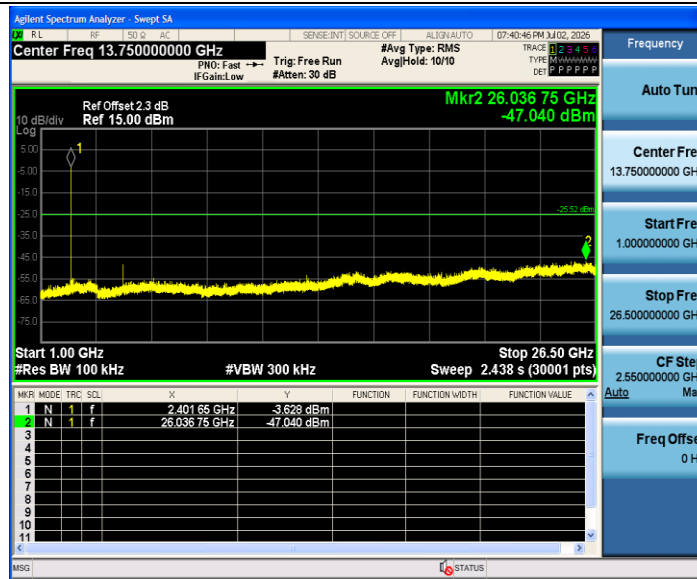
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-5.52	-5.52	---	PASS
			30~1000	-5.52	-60.48	≤-25.52	PASS
			1000~26500	-5.52	-47.04	≤-25.52	PASS
		2441	Reference	-3.89	-3.89	---	PASS
			30~1000	-3.89	-43.85	≤-23.89	PASS
			1000~26500	-3.89	-46.82	≤-23.89	PASS
		2480	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-53.87	≤-24.13	PASS
			1000~26500	-4.13	-47.32	≤-24.13	PASS
2DH5	Ant1	2402	Reference	-11.18	-11.18	---	PASS
			30~1000	-11.18	-50.62	≤-31.18	PASS
			1000~26500	-11.18	-46.84	≤-31.18	PASS
		2441	Reference	-10.16	-10.16	---	PASS
			30~1000	-10.16	-54.36	≤-30.16	PASS
			1000~26500	-10.16	-47.08	≤-30.16	PASS
		2480	Reference	-3.86	-3.86	---	PASS
			30~1000	-3.86	-61.81	≤-23.86	PASS
			1000~26500	-3.86	-46.4	≤-23.86	PASS
3DH5	Ant1	2402	Reference	-8.10	-8.10	---	PASS
			30~1000	-8.10	-62.51	≤-28.1	PASS
			1000~26500	-8.10	-47.31	≤-28.1	PASS
		2441	Reference	-5.17	-5.17	---	PASS
			30~1000	-5.17	-61.49	≤-25.17	PASS
			1000~26500	-5.17	-47.34	≤-25.17	PASS
		2480	Reference	-5.06	-5.06	---	PASS
			30~1000	-5.06	-50.93	≤-25.06	PASS
			1000~26500	-5.06	-46.98	≤-25.06	PASS

Test Graphs

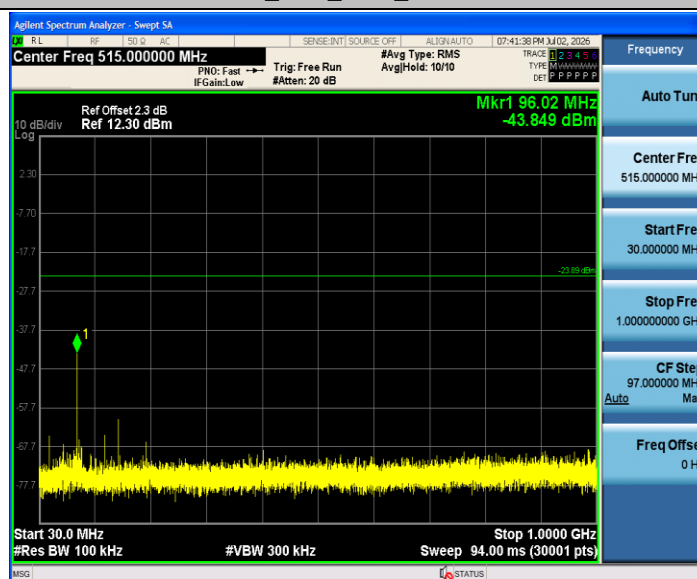




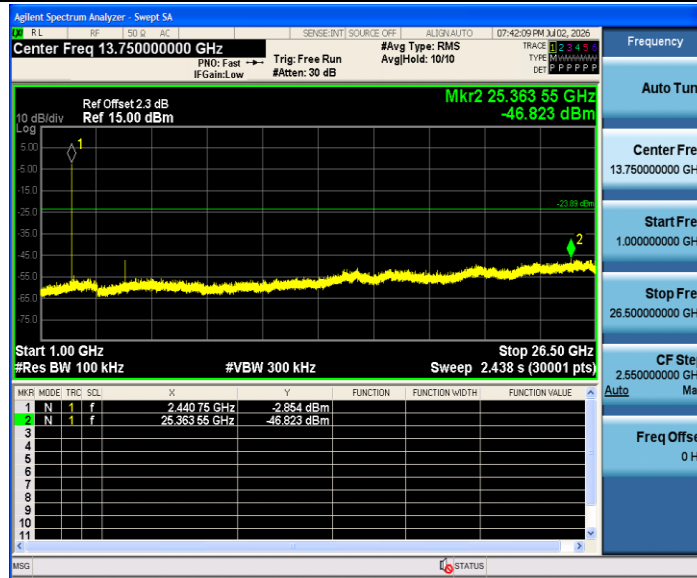
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



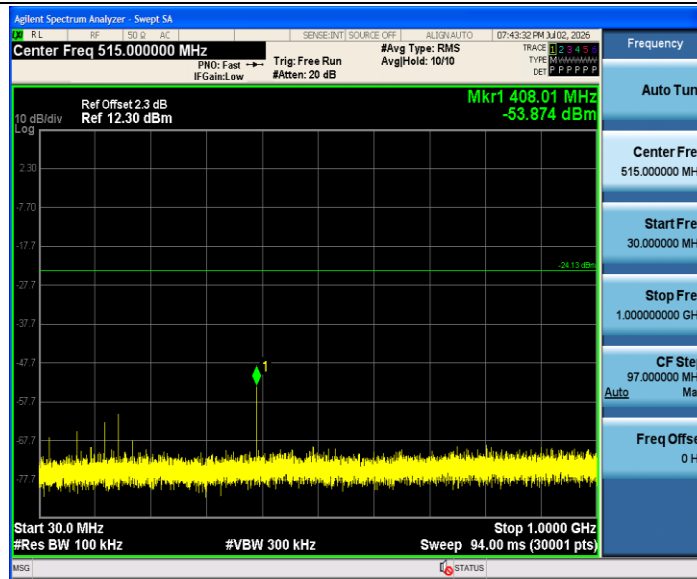
DH5_Ant1_2441_1000~26500



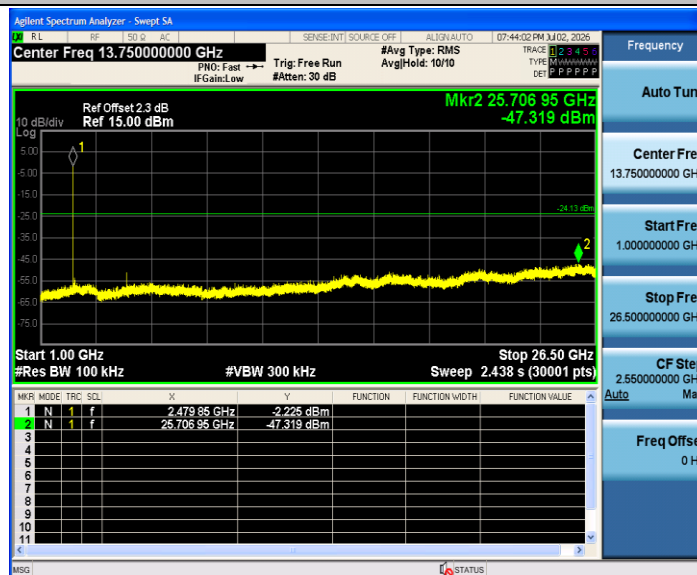
DH5_Ant1_2480_0~Reference



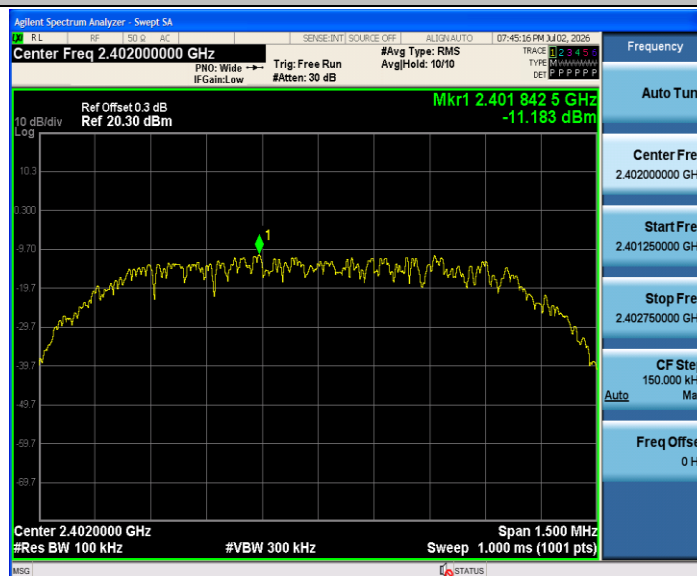
DH5_Ant1_2480_30~1000



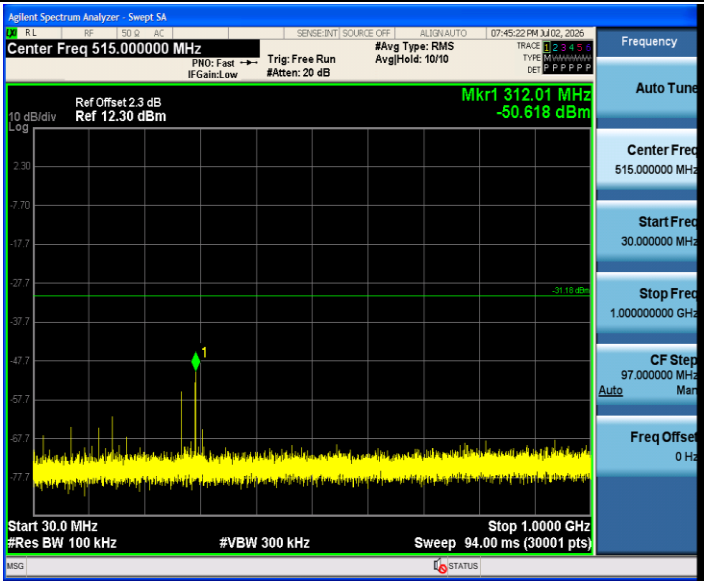
DH5_Ant1_2480_1000~26500



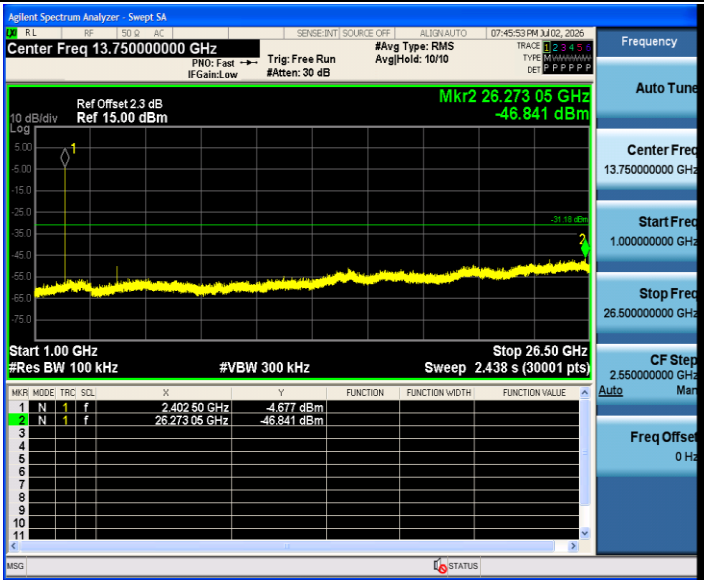
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference