

FCC Appendix RF Test Data for BT

FCC ID : 2BF3S-FST868

Company : Dongguan Faraoou Electric Appliance Co., Ltd

EUT : Portable Wireless Speaker System

Model Number : FS-T868

Report No. : CTA26012002901

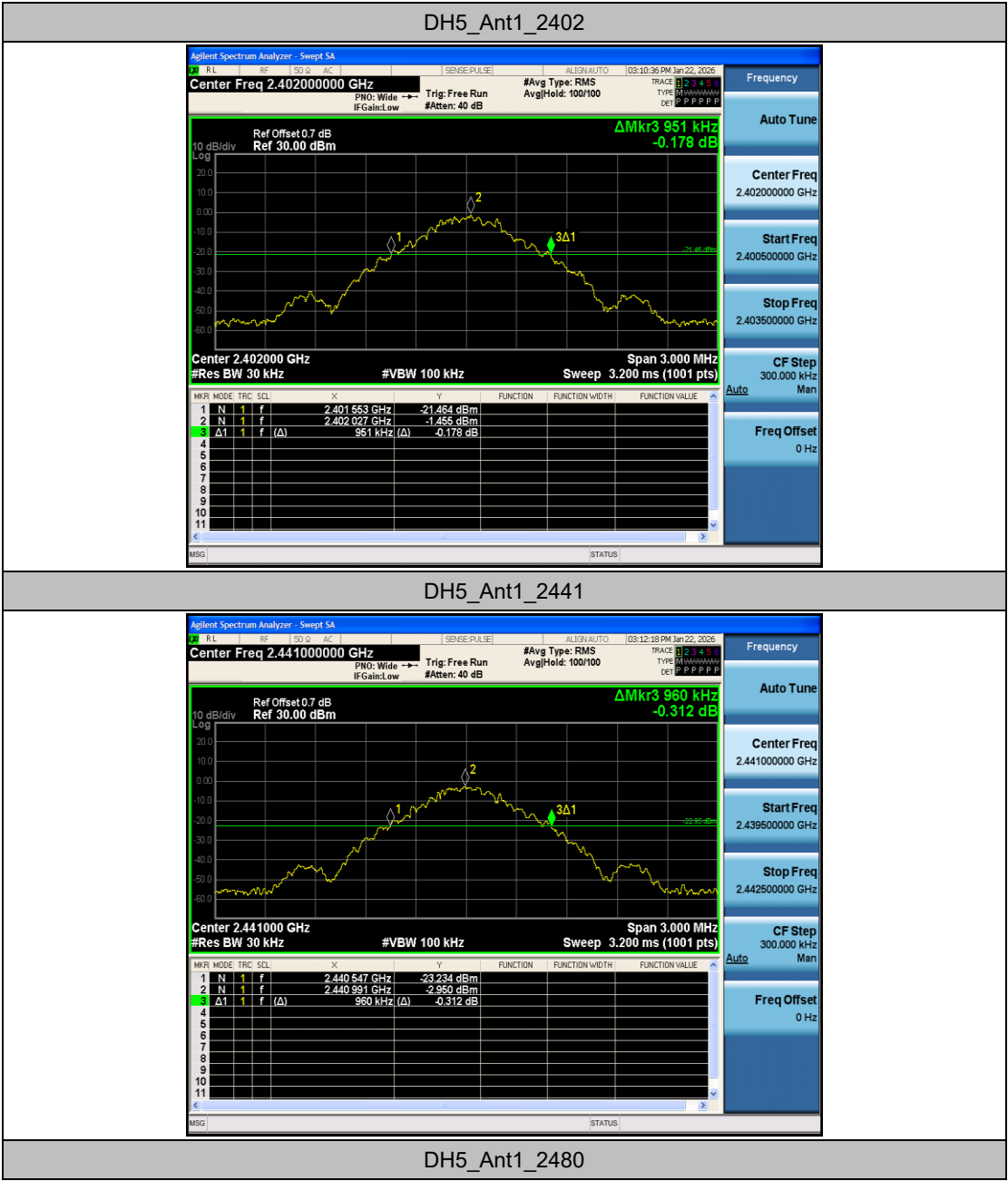
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.553	2402.504	---	---
		2441	0.960	2440.547	2441.507	---	---
		2480	0.966	2479.544	2480.510	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.323	2440.352	2441.675	---	---
		2480	1.317	2479.352	2480.669	---	---
3DH5	Ant1	2402	1.284	2401.382	2402.666	---	---
		2441	1.344	2440.340	2441.684	---	---
		2480	1.335	2479.346	2480.681	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

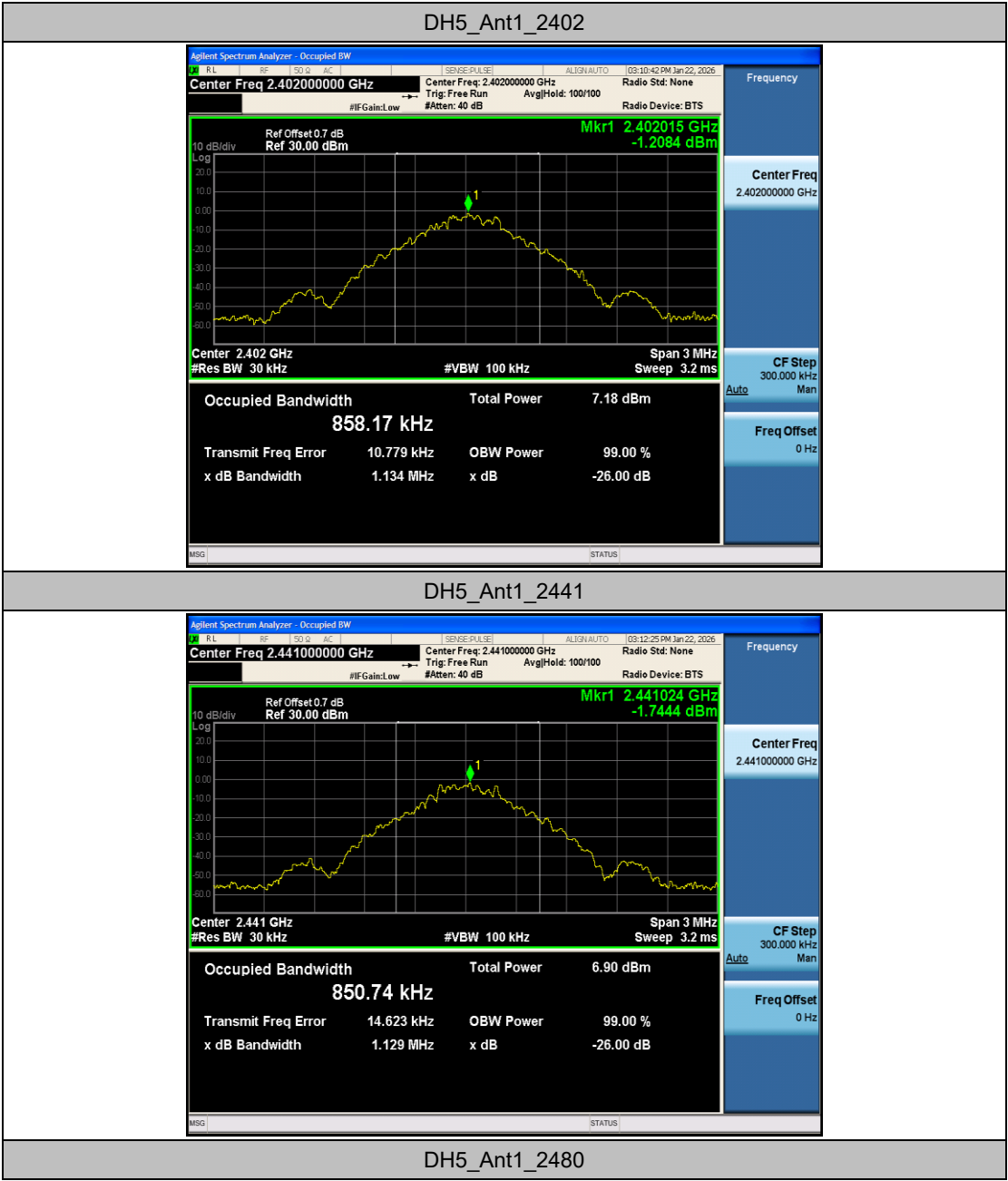


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85817	2401.5817	2402.4399	---	---
		2441	0.85074	2440.5893	2441.4400	---	---
		2480	0.86806	2479.5811	2480.4491	---	---
2DH5	Ant1	2402	1.1902	2401.4200	2402.6102	---	---
		2441	1.1735	2440.4278	2441.6013	---	---
		2480	1.1905	2479.4188	2480.6093	---	---
3DH5	Ant1	2402	1.1981	2401.4153	2402.6134	---	---
		2441	1.1904	2440.4179	2441.6083	---	---
		2480	1.1821	2479.4287	2480.6108	---	---

Test Graphs



DH5_Ant1_2480



2DH5_Ant1_2402



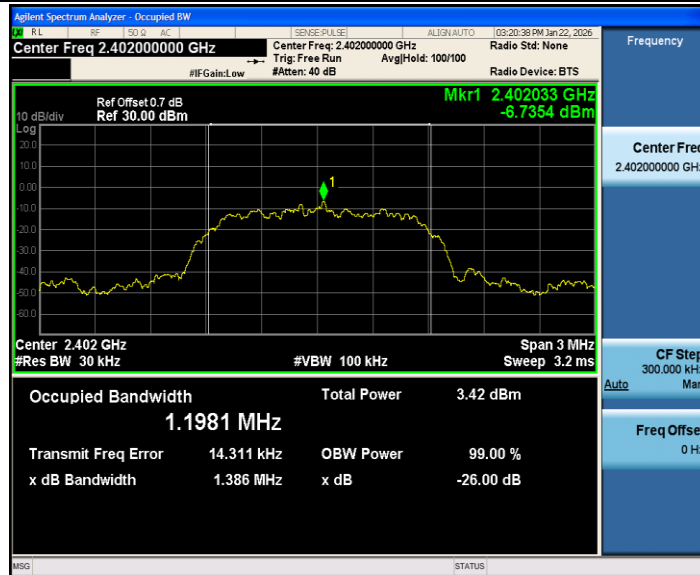
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

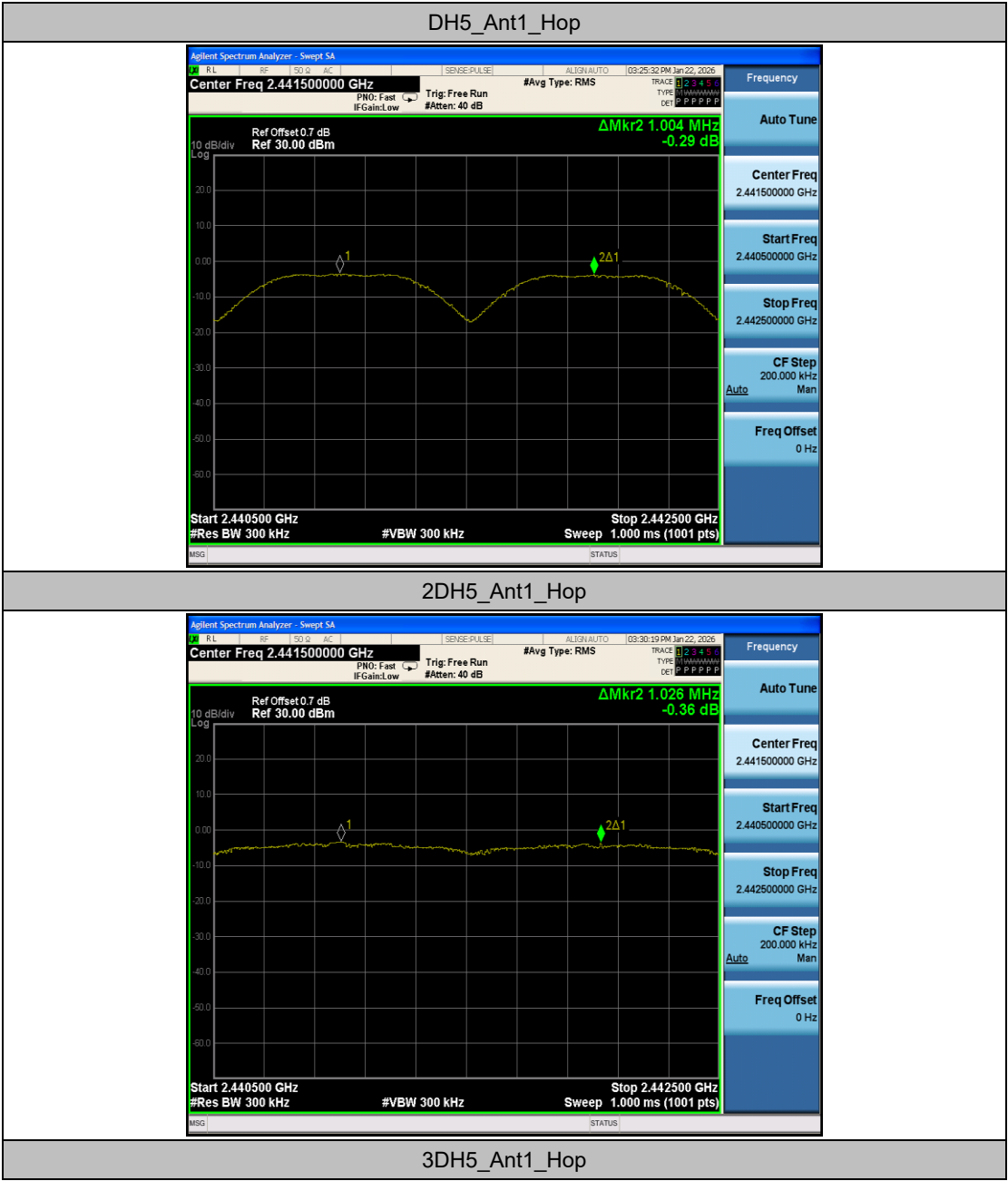
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.63	≤20.97	PASS
		2441	0.20	≤20.97	PASS
		2480	0.19	≤20.97	PASS
2DH5	Ant1	2402	-0.34	≤20.97	PASS
		2441	-0.55	≤20.97	PASS
		2480	-0.69	≤20.97	PASS
3DH5	Ant1	2402	-0.26	≤20.97	PASS
		2441	-0.63	≤20.97	PASS
		2480	-0.70	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.966	PASS
2DH5	Ant1	Hop	1.026	≥ 0.882	PASS
3DH5	Ant1	Hop	0.972	≥ 0.896	PASS

Test Graphs



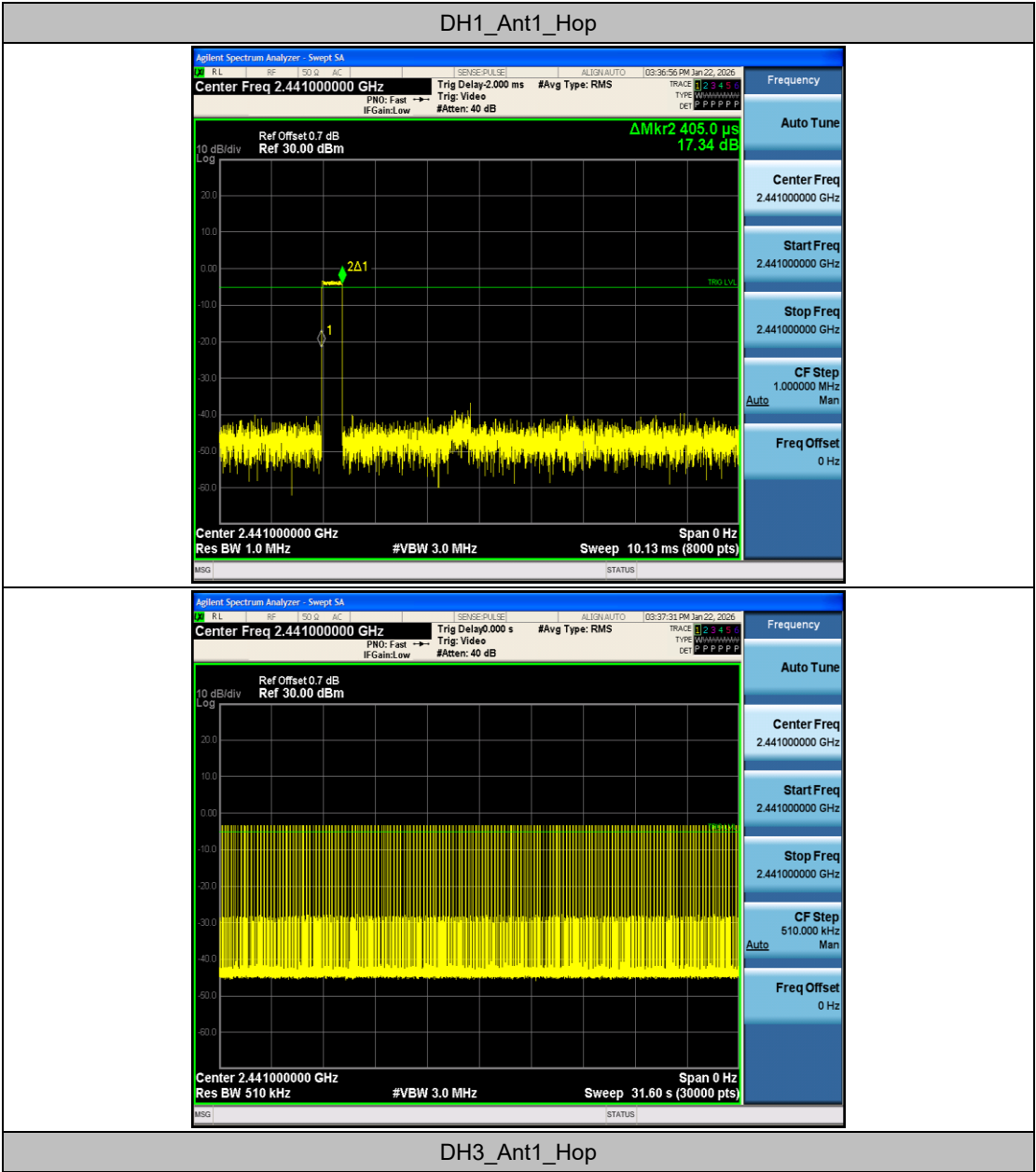


Appendix E: Time of occupancy

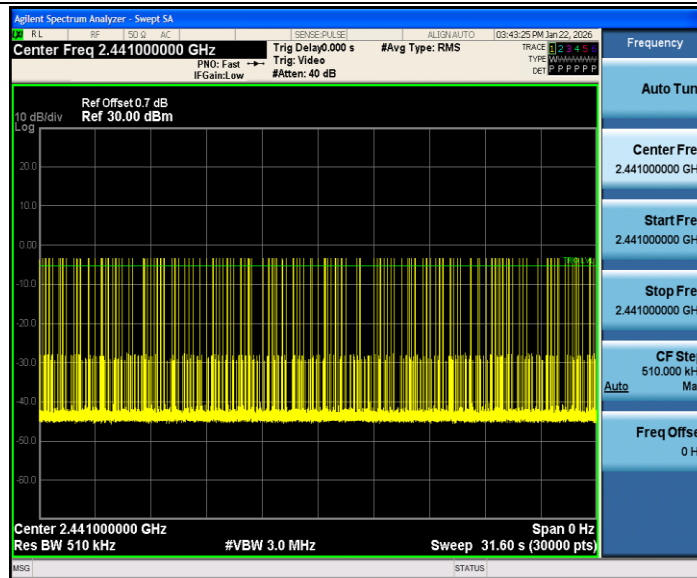
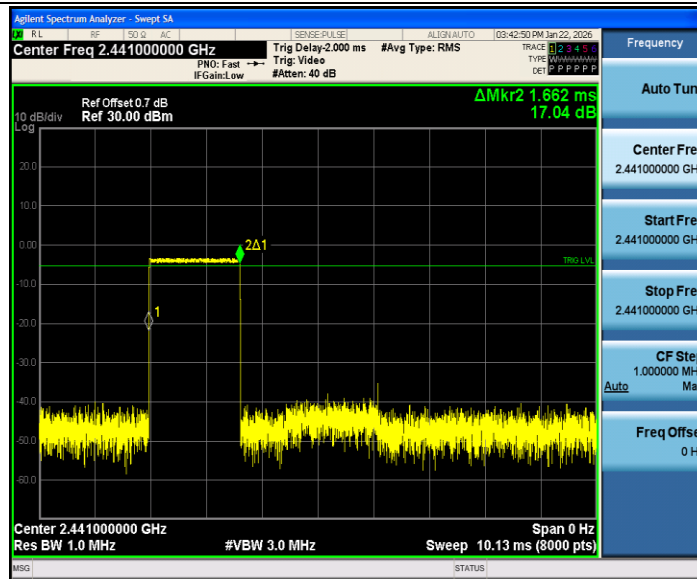
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	316	0.128	≤0.4	PASS
DH3	Ant1	Hop	1.662	156	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.910	103	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.405	316	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.662	154	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.916	116	0.338	≤0.4	PASS
3DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
3DH3	Ant1	Hop	1.662	159	0.264	≤0.4	PASS
3DH5	Ant1	Hop	2.916	105	0.306	≤0.4	PASS

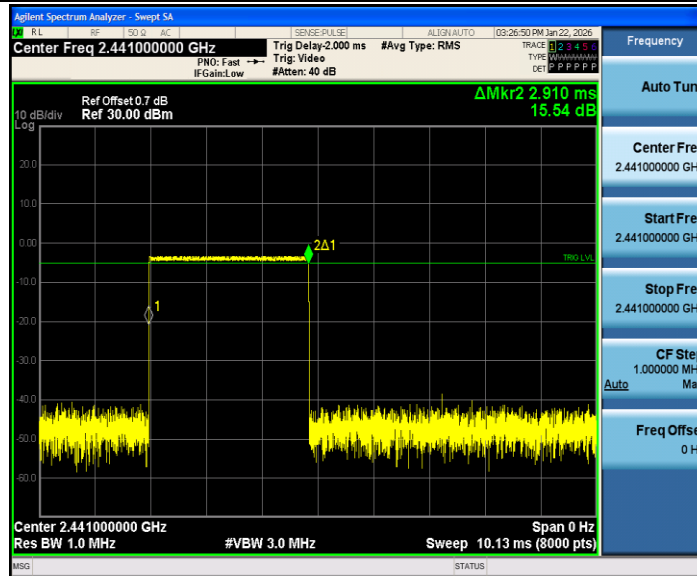
Test Graphs

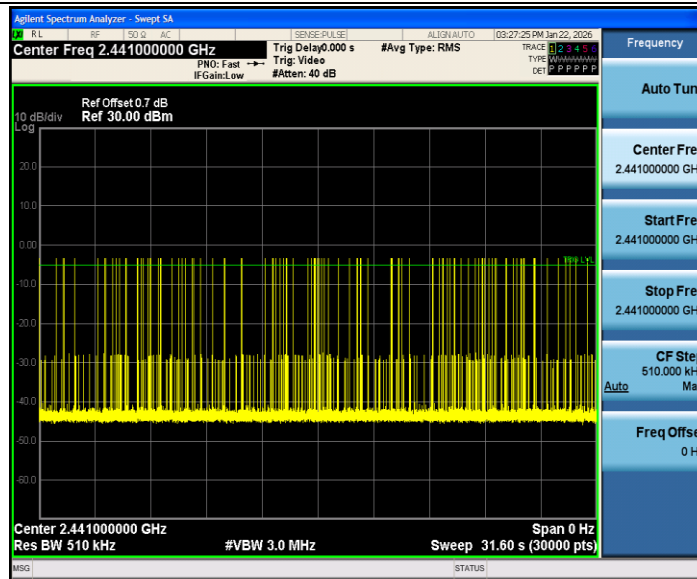


DH3_Ant1_Hop

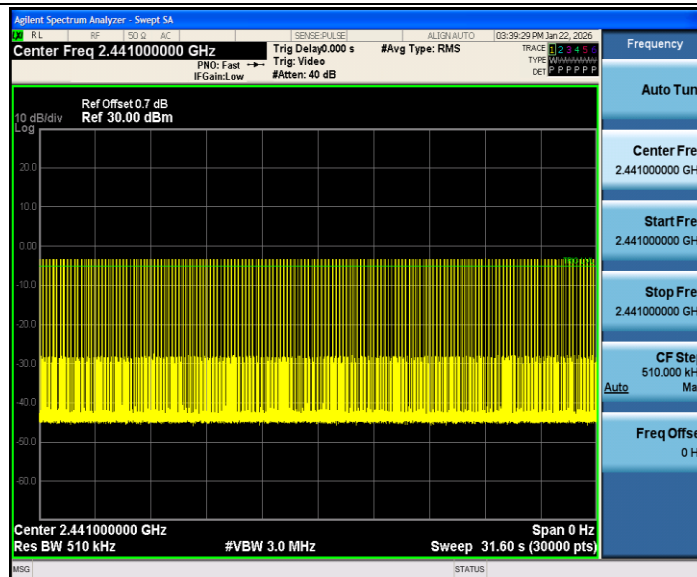
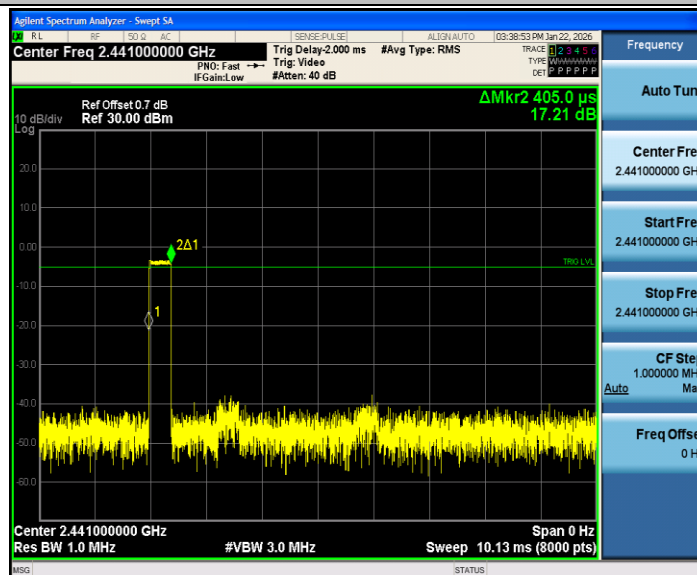


DH5_Ant1_Hop

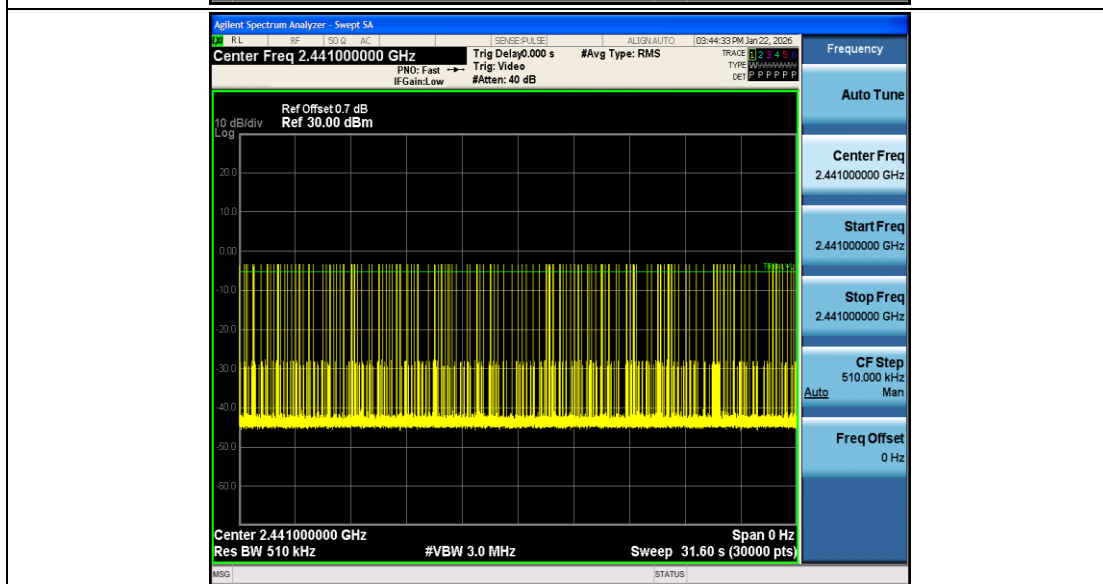
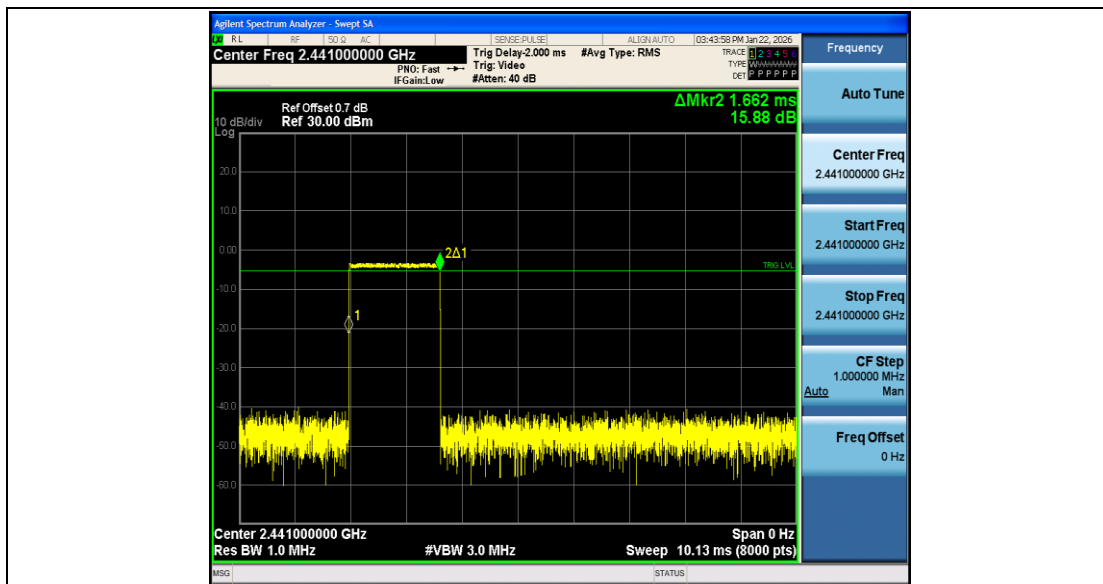




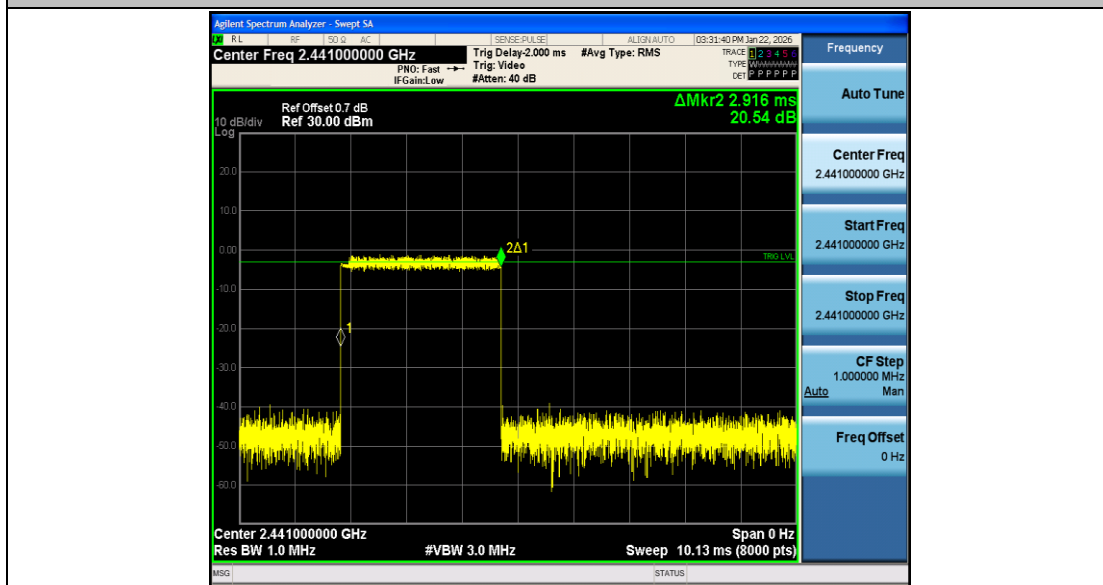
2DH1_Ant1_Hop

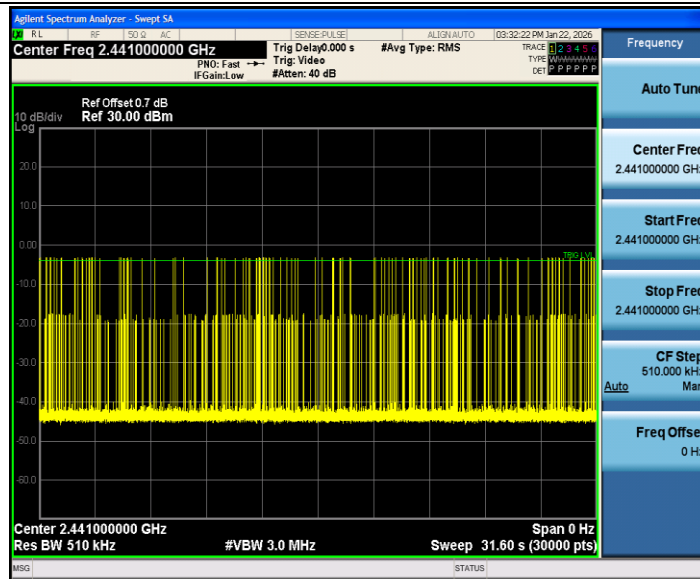


2DH3_Ant1_Hop

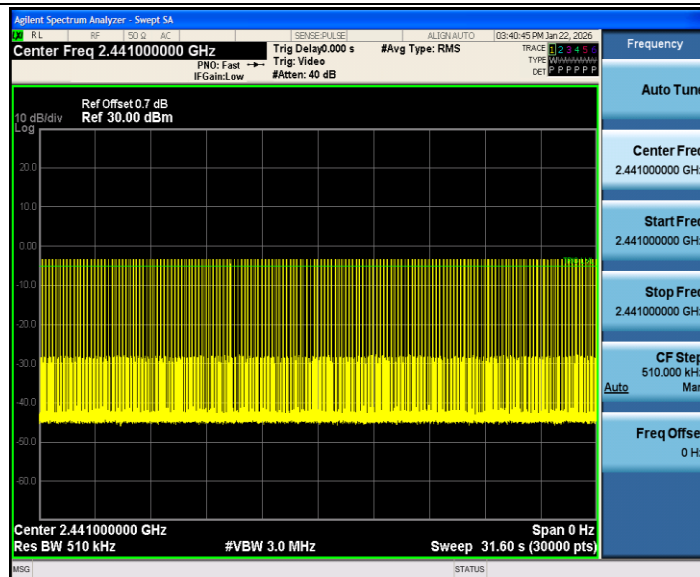
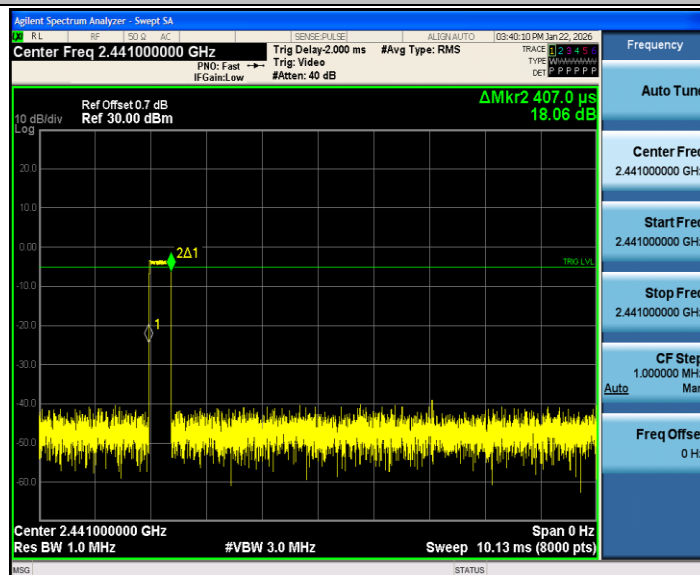


2DH5_Ant1_Hop

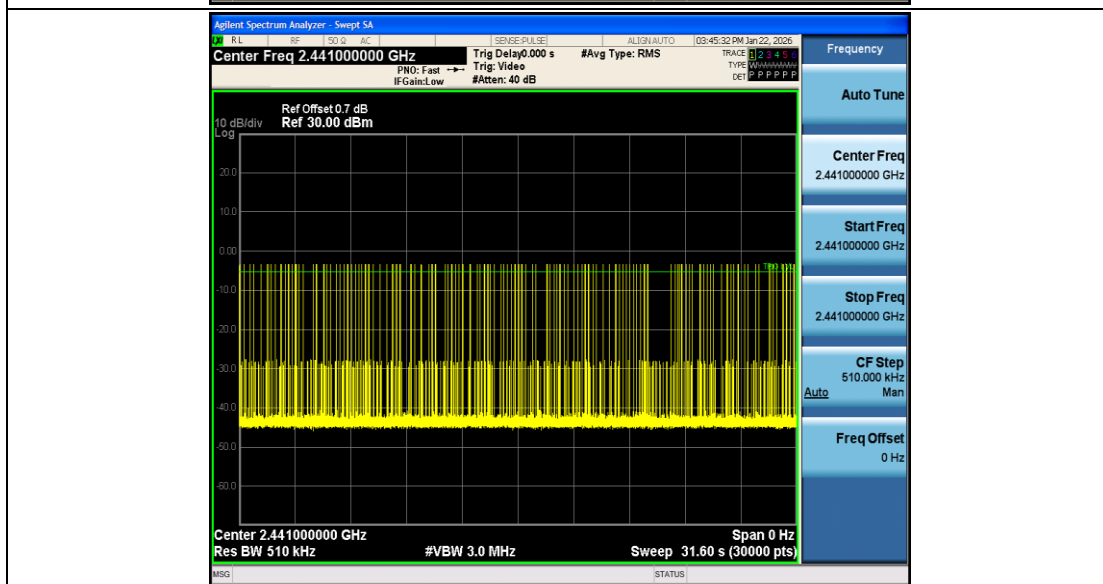
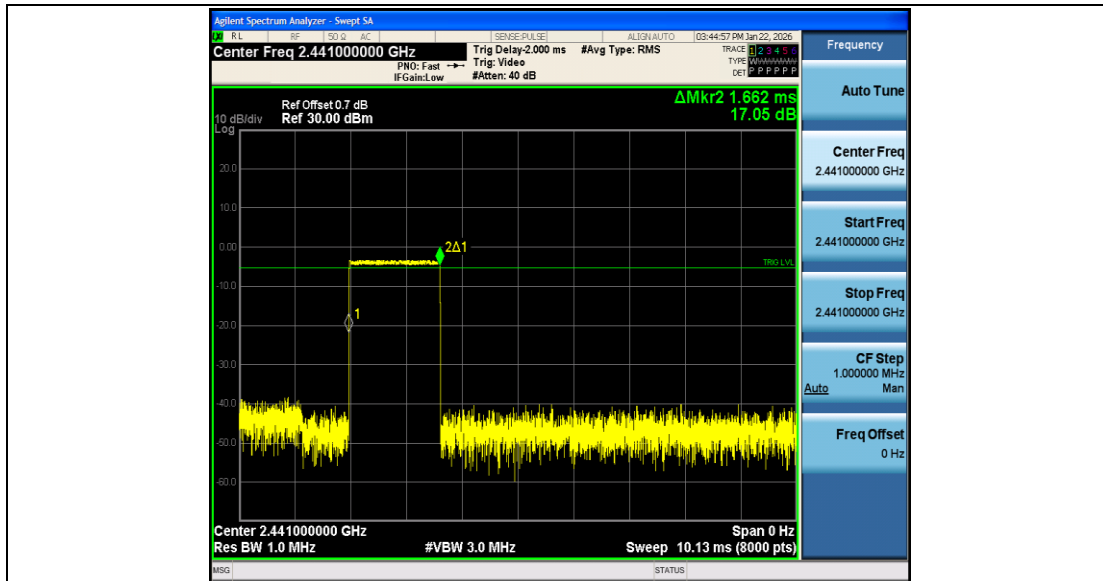




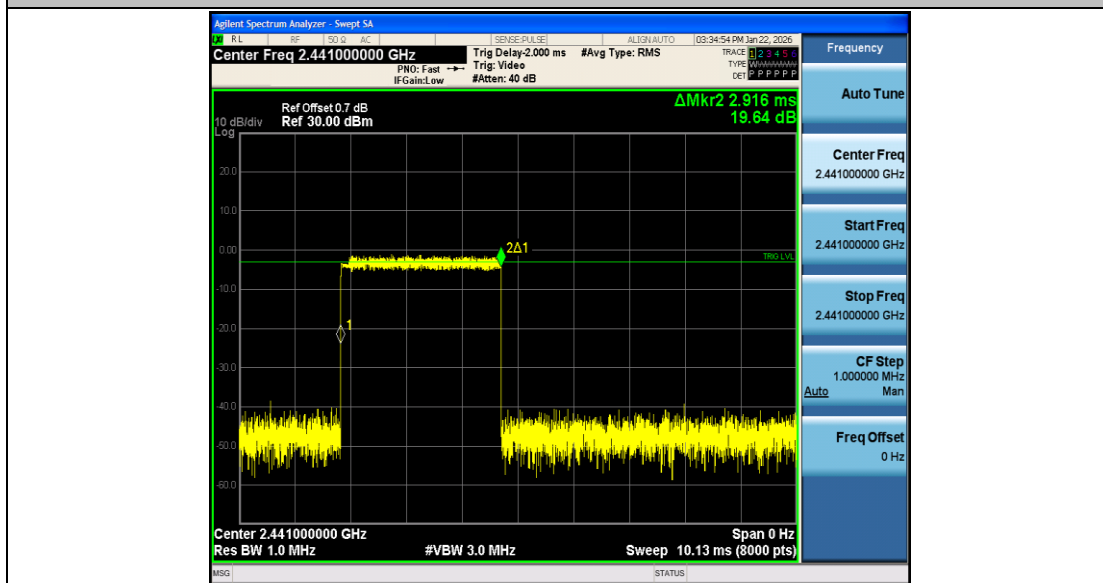
3DH1_Ant1_Hop

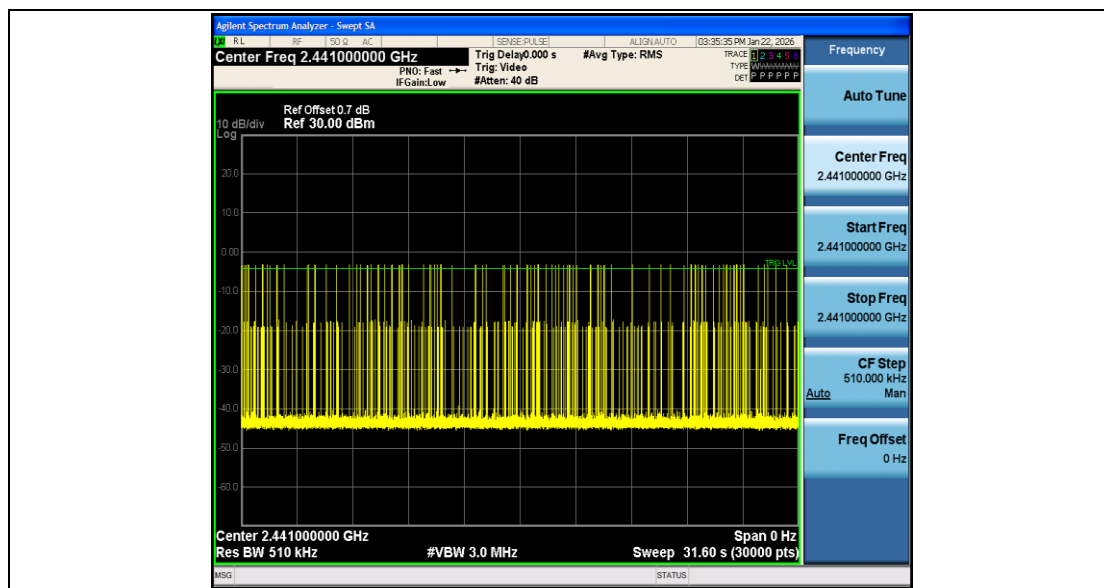


3DH3_Ant1_Hop



3DH5_Ant1_Hop



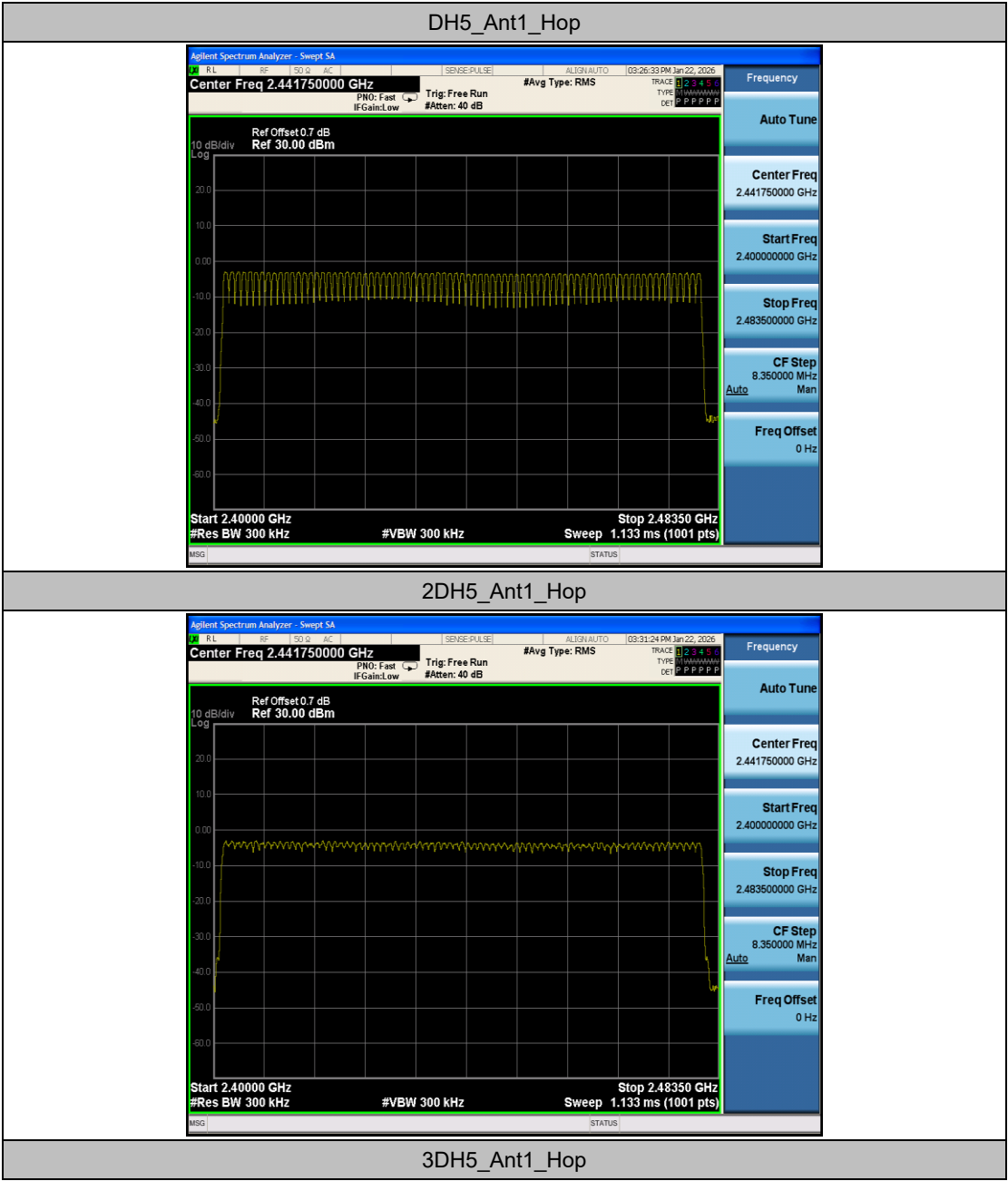


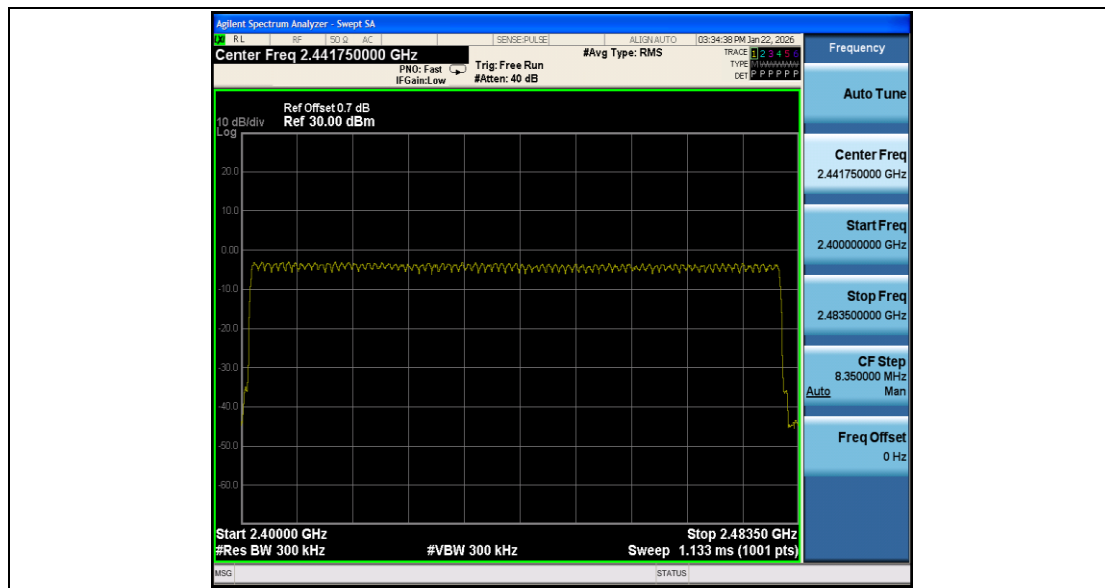
Appendix F: Number of hopping channels

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



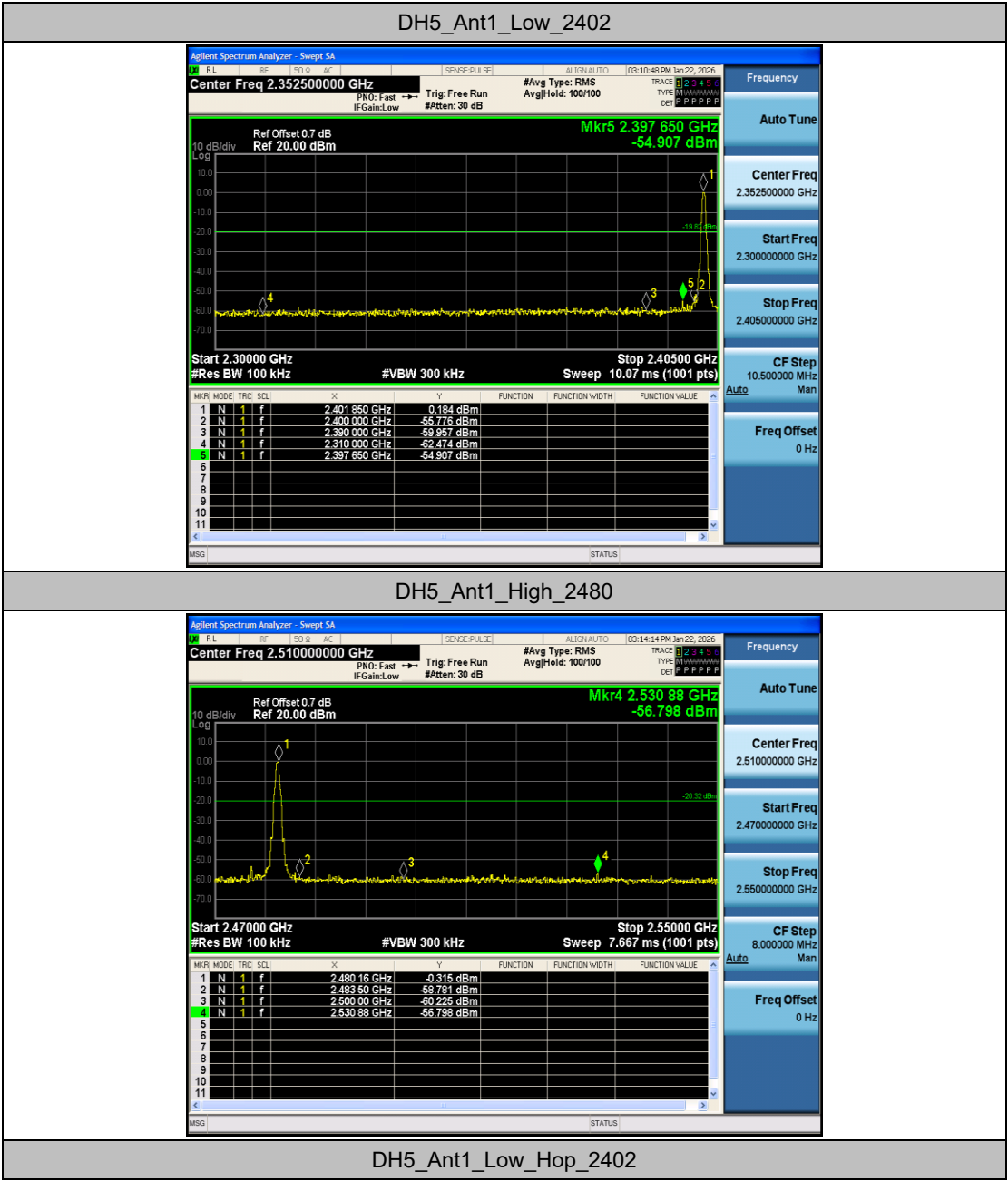


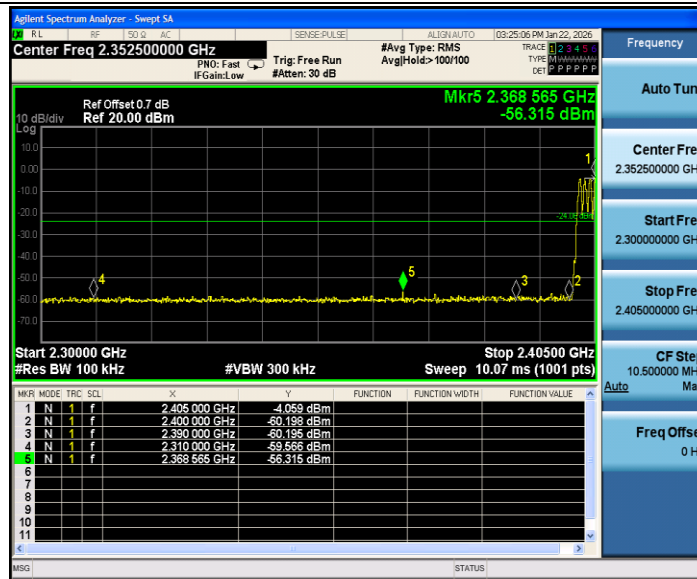
Appendix G: Band edge measurements

Test Result

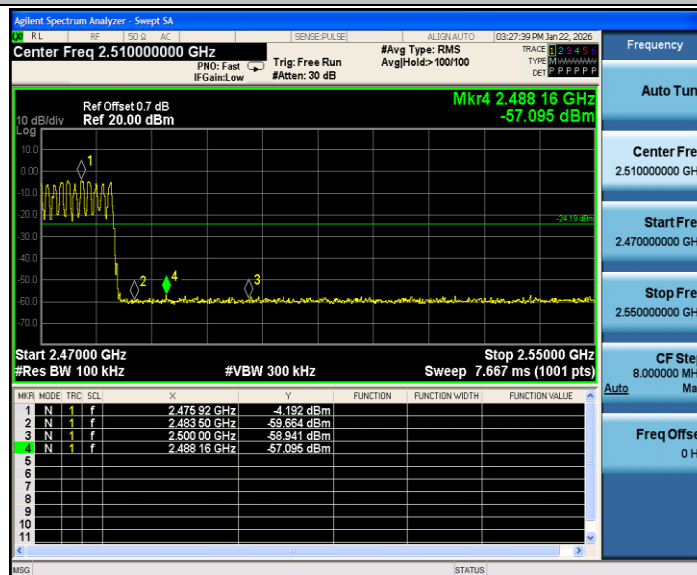
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.18	-54.91	≤-19.82	PASS
		High	2480	-0.32	-56.8	≤-20.32	PASS
		Low	Hop_2402	-4.06	-56.32	≤-24.06	PASS
		High	Hop_2480	-4.19	-57.1	≤-24.19	PASS
2DH5	Ant1	Low	2402	-3.77	-56.19	≤-23.77	PASS
		High	2480	-3.32	-57.6	≤-23.32	PASS
		Low	Hop_2402	-4.30	-53.83	≤-24.3	PASS
		High	Hop_2480	-4.42	-57.18	≤-24.42	PASS
3DH5	Ant1	Low	2402	-3.99	-54.95	≤-23.99	PASS
		High	2480	-4.39	-55.45	≤-24.39	PASS
		Low	Hop_2402	-3.84	-57.35	≤-23.84	PASS
		High	Hop_2480	-3.60	-54.37	≤-23.6	PASS

Test Graphs

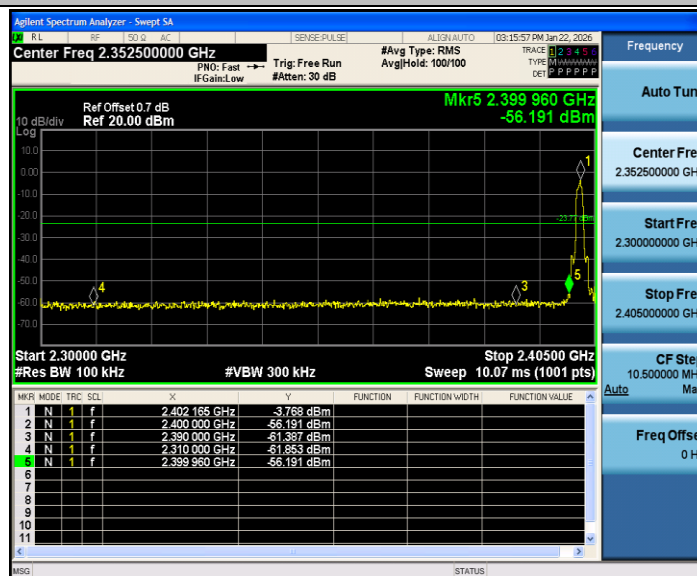




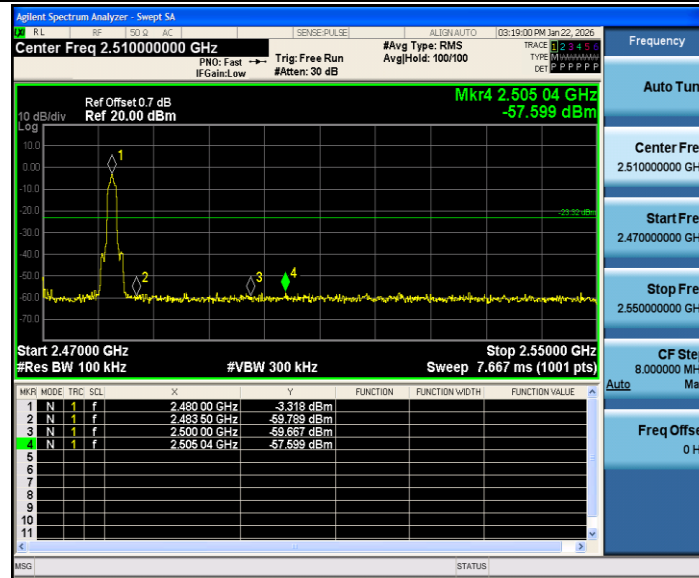
DH5_Ant1_High_Hop_2480



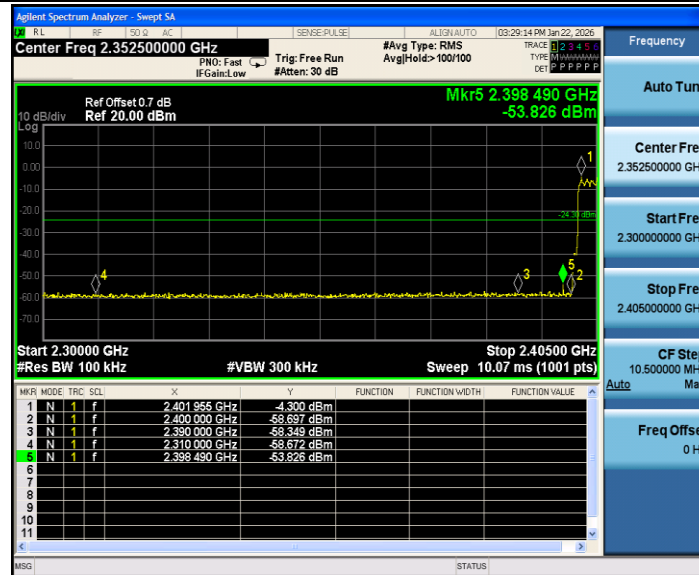
2DH5_Ant1_Low_2402



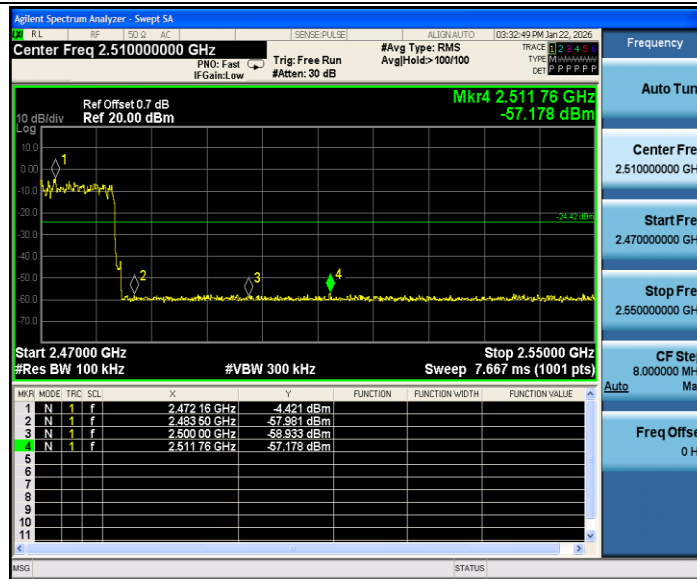
2DH5_Ant1_High_2480



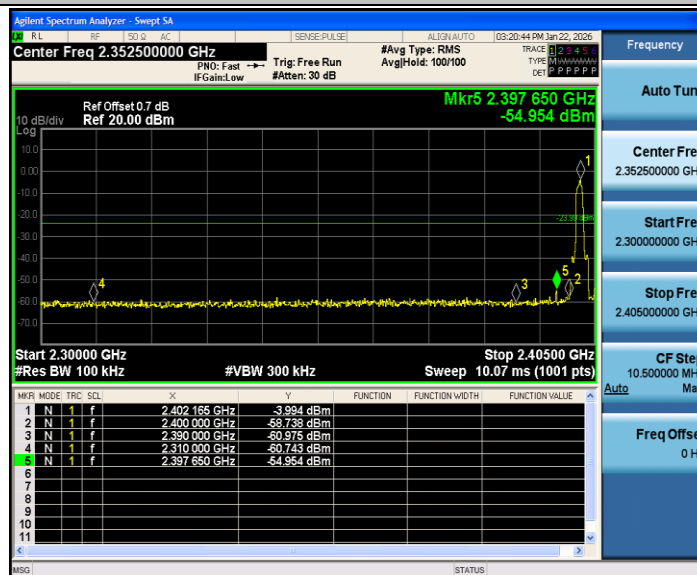
2DH5_Ant1_Low_Hop_2402



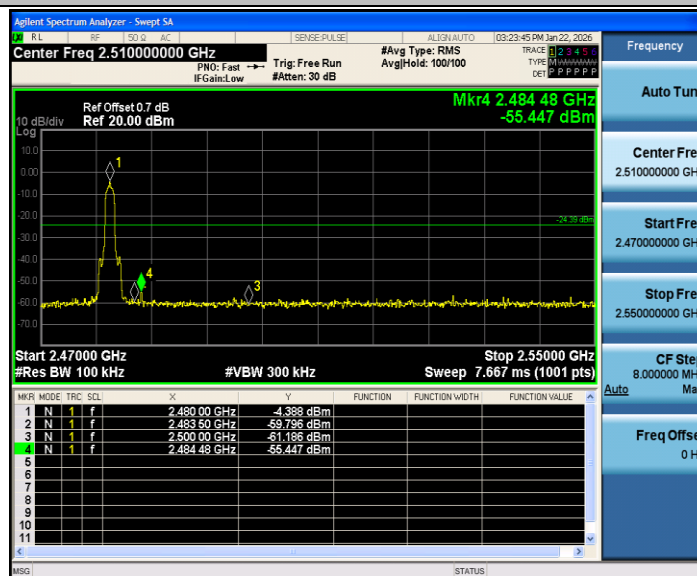
2DH5_Ant1_High_Hop_2480



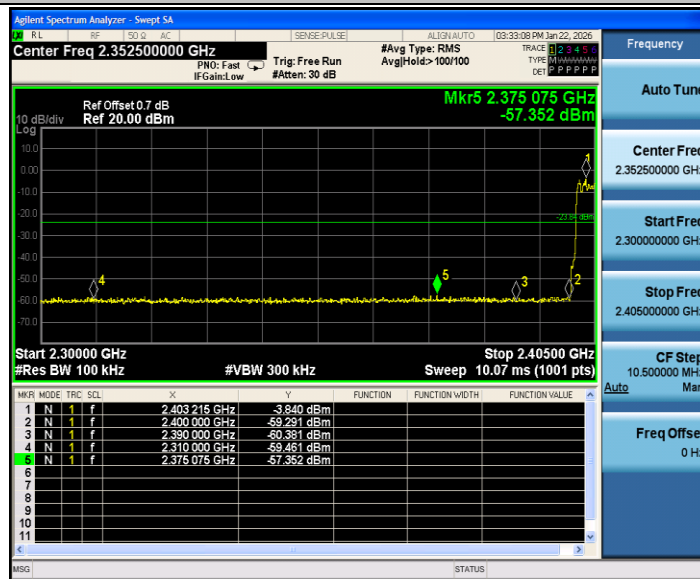
3DH5_Ant1_Low_2402



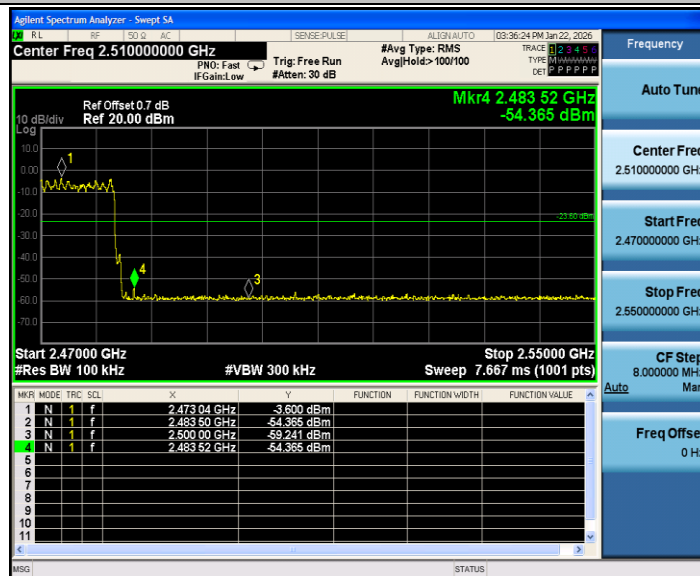
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

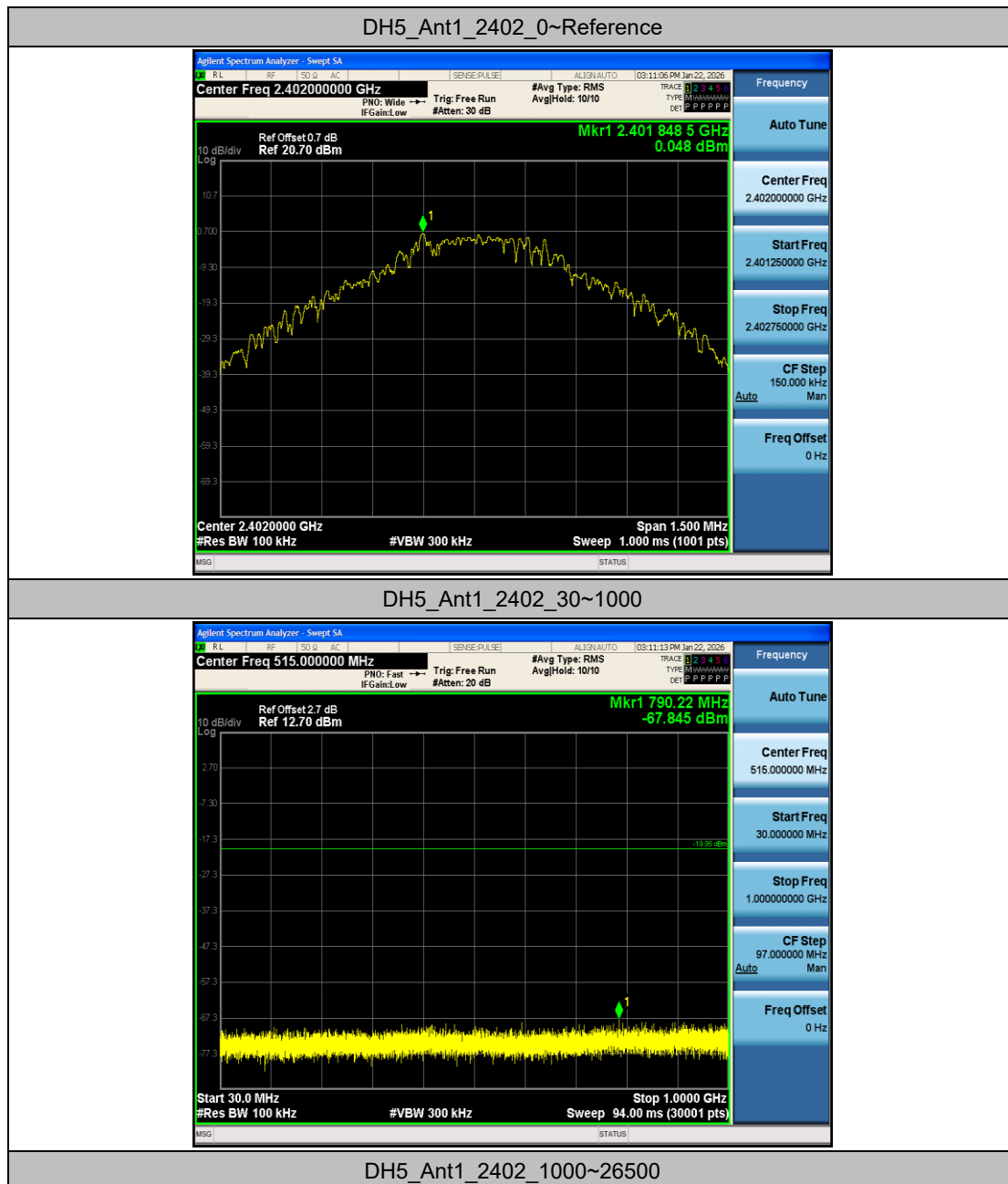


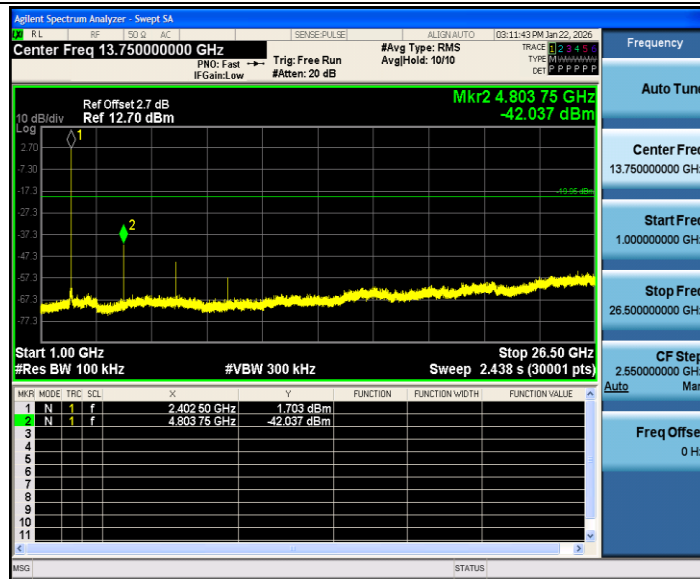
Appendix H: Conducted Spurious Emission

Test Result

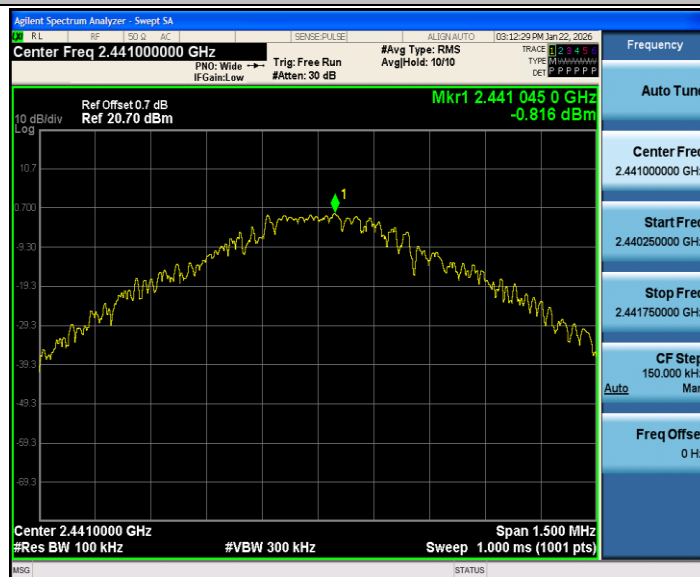
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-67.85	≤-19.95	PASS
			1000~26500	0.05	-42.04	≤-19.95	PASS
		2441	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-68.08	≤-20.82	PASS
			1000~26500	-0.82	-44.54	≤-20.82	PASS
		2480	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-67.34	≤-21.16	PASS
			1000~26500	-1.16	-43.82	≤-21.16	PASS
2DH5	Ant1	2402	Reference	-3.59	-3.59	---	PASS
			30~1000	-3.59	-67.86	≤-23.59	PASS
			1000~26500	-3.59	-47.43	≤-23.59	PASS
		2441	Reference	-5.48	-5.48	---	PASS
			30~1000	-5.48	-67.79	≤-25.48	PASS
			1000~26500	-5.48	-48.83	≤-25.48	PASS
		2480	Reference	-5.60	-5.60	---	PASS
			30~1000	-5.60	-62.19	≤-25.6	PASS
			1000~26500	-5.60	-47.73	≤-25.6	PASS
3DH5	Ant1	2402	Reference	-4.38	-4.38	---	PASS
			30~1000	-4.38	-68.12	≤-24.38	PASS
			1000~26500	-4.38	-47.57	≤-24.38	PASS
		2441	Reference	-6.46	-6.46	---	PASS
			30~1000	-6.46	-65.6	≤-26.46	PASS
			1000~26500	-6.46	-50.62	≤-26.46	PASS
		2480	Reference	-7.02	-7.02	---	PASS
			30~1000	-7.02	-55.82	≤-27.02	PASS
			1000~26500	-7.02	-46.43	≤-27.02	PASS

Test Graphs

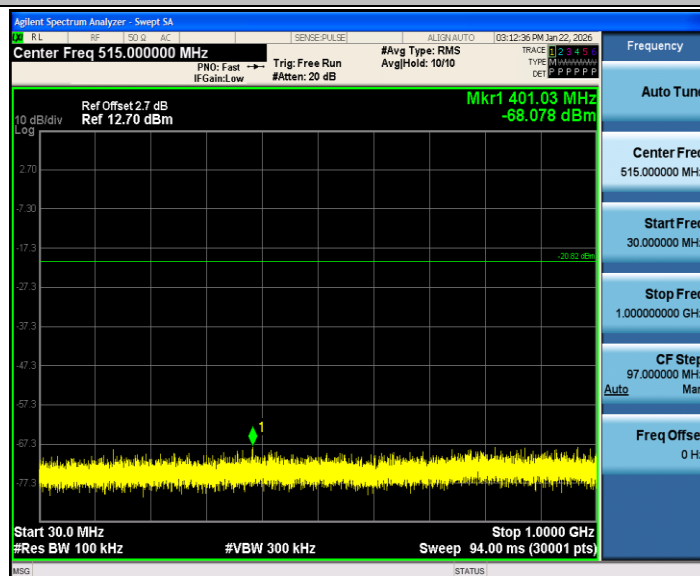




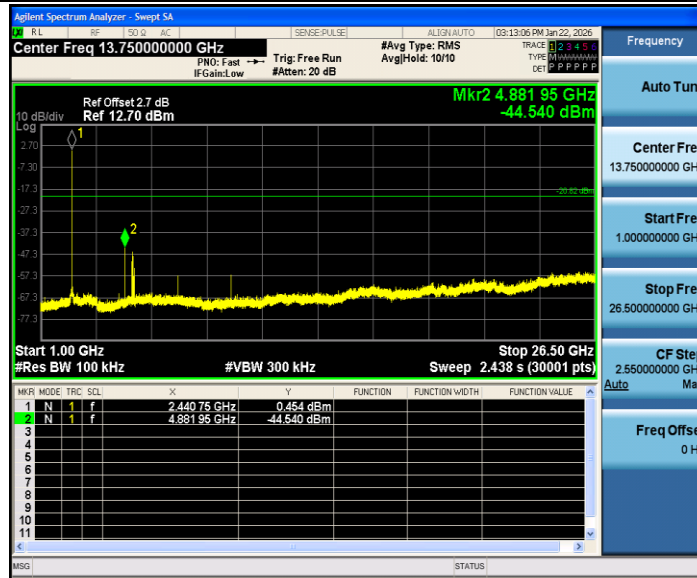
DH5_Ant1_2441_0~Reference



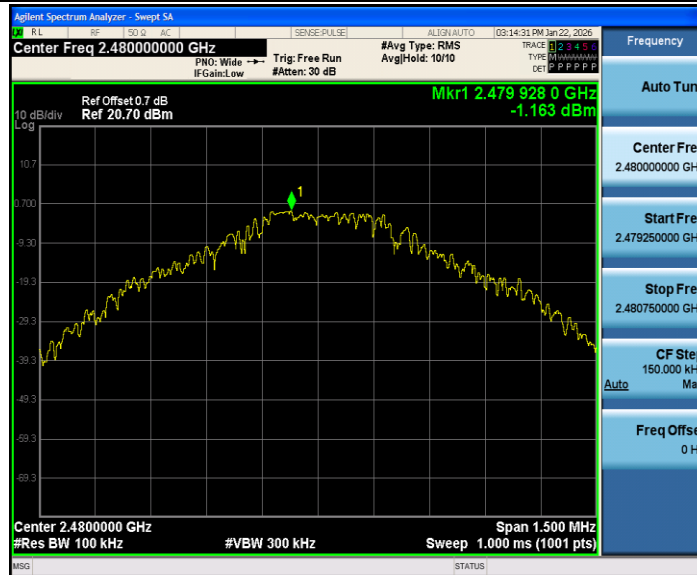
DH5_Ant1_2441_30~1000



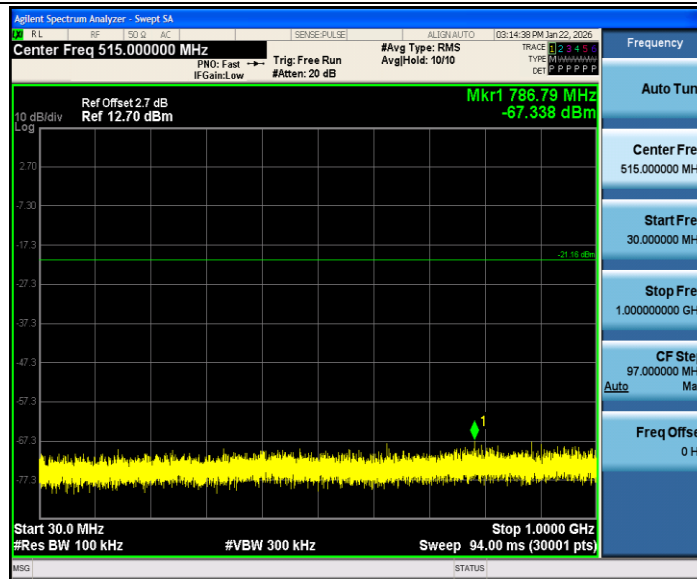
DH5_Ant1_2441_1000~26500



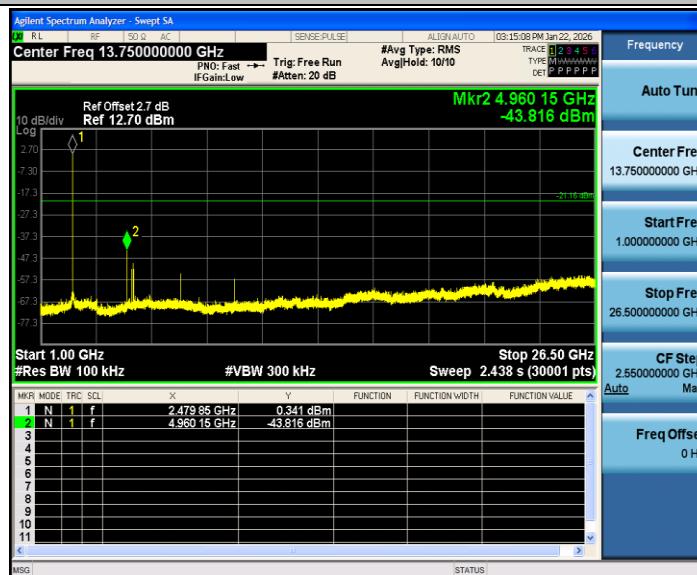
DH5_Ant1_2480_0~Reference



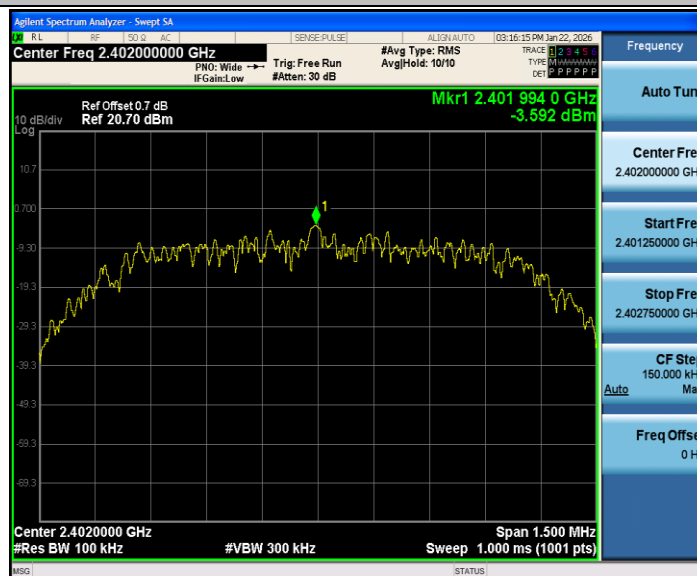
DH5_Ant1_2480_30~1000



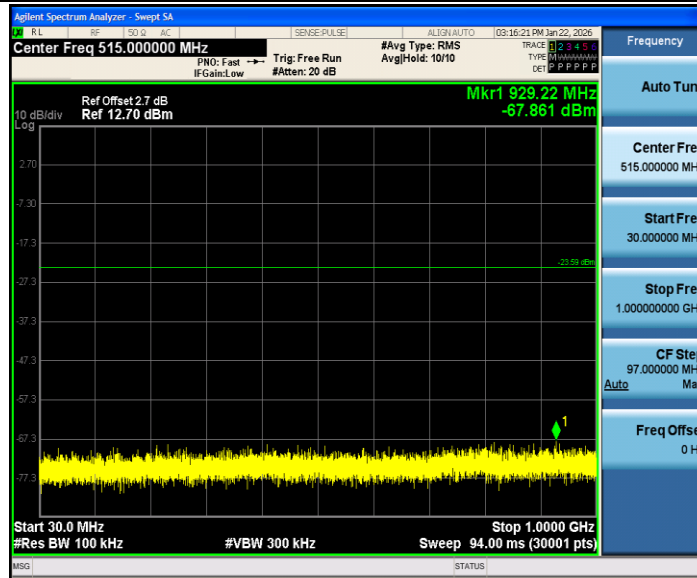
DH5_Ant1_2480_1000~26500



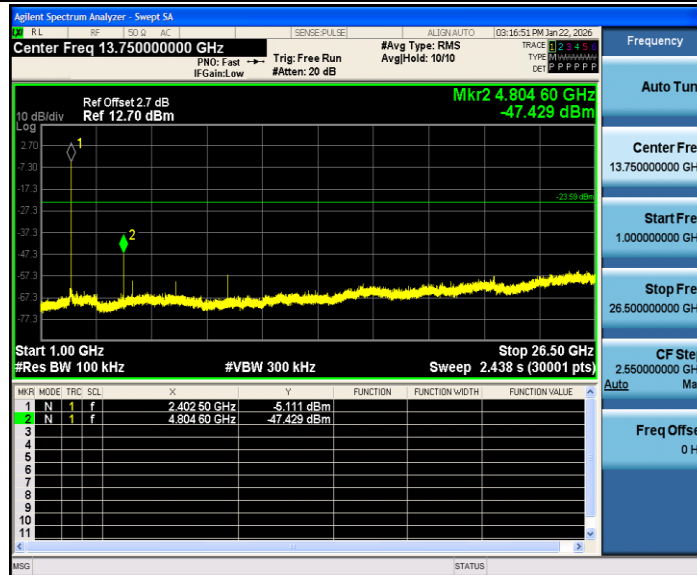
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference