

FCC Appendix RF Test Data for BT

FCC ID : 2BYE7-XYJ-BA215TP

Company : Shenzhen New Yanjing Technology Co., Ltd.
Digital Signage Advertising Machines, Touch All-in-one Machines, All-in-one Machines, Teaching and

EUT : Conference Whiteboards, Smart Class Signs, Touch
self-service inquiry all-in-one machine, Splicing
Screen All-in-one Machines

Model Number : XYJ-BA215TP

Report No. : CTA26081801702

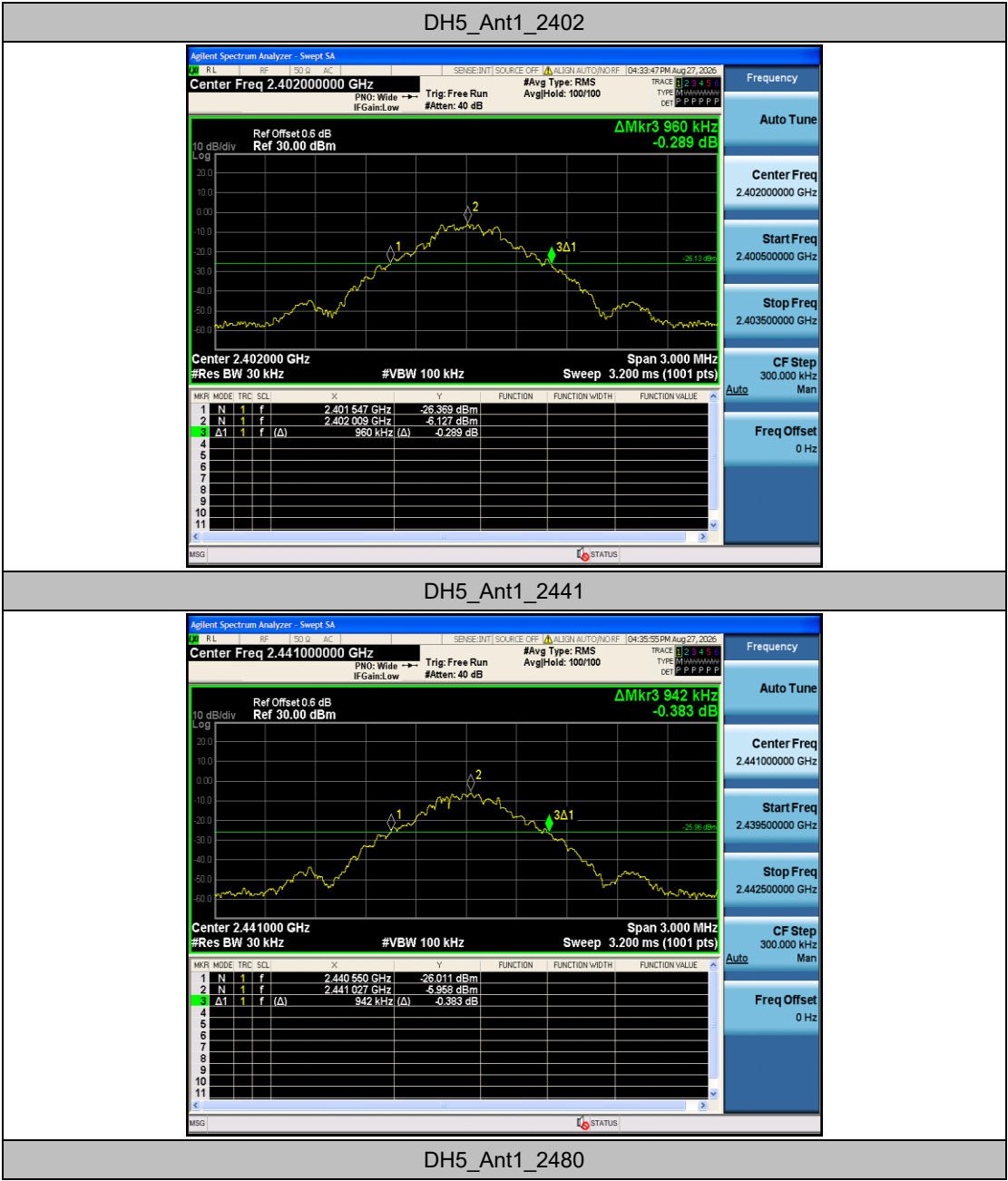
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.960	2401.547	2402.507	---	---
		2441	0.942	2440.550	2441.492	---	---
		2480	0.930	2479.550	2480.480	---	---
2DH5	Ant1	2402	1.287	2401.379	2402.666	---	---
		2441	1.344	2440.337	2441.681	---	---
		2480	1.326	2479.355	2480.681	---	---
3DH5	Ant1	2402	1.311	2401.355	2402.666	---	---
		2441	1.311	2440.358	2441.669	---	---
		2480	1.305	2479.364	2480.669	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

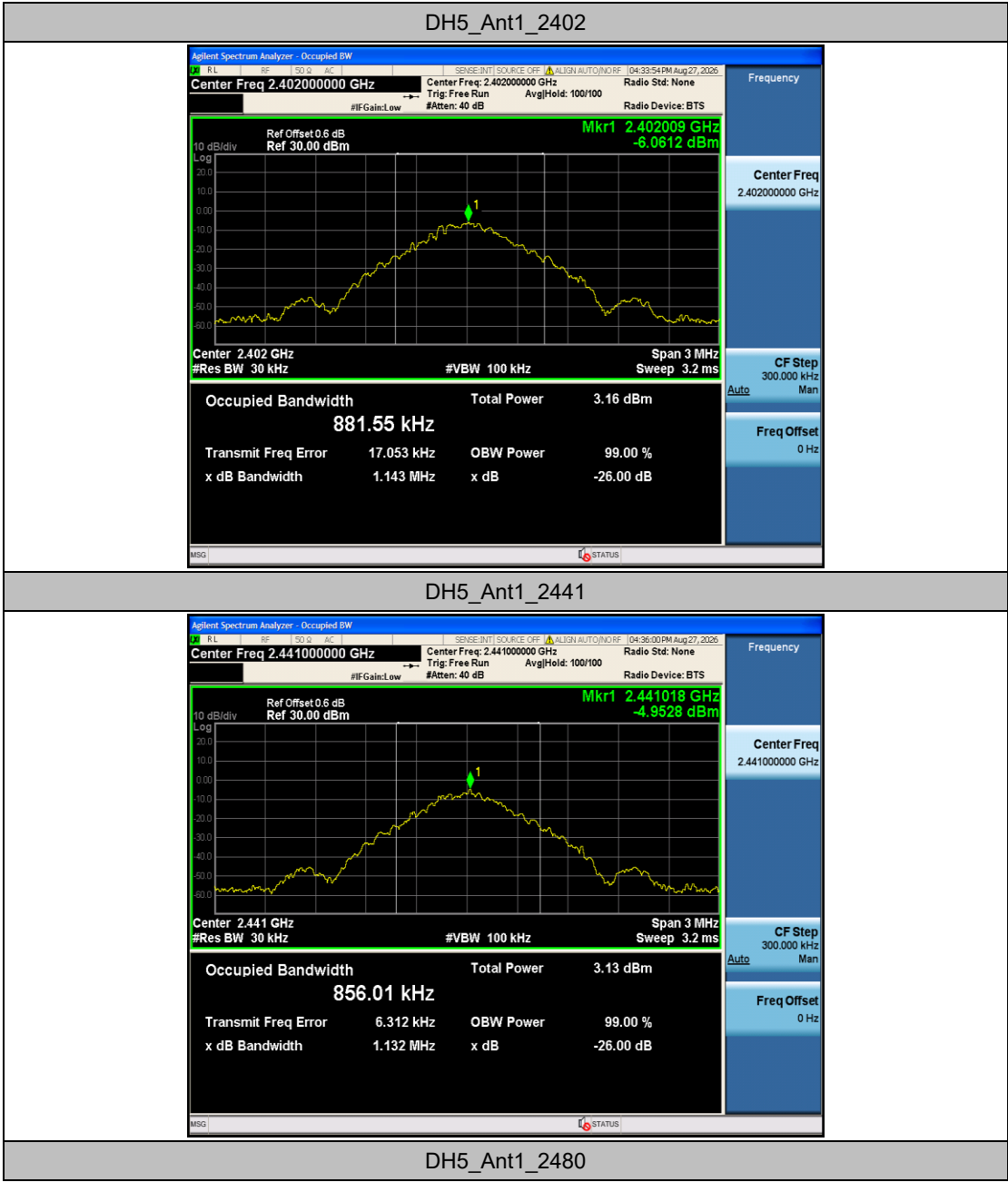


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88155	2401.5763	2402.4578	---	---
		2441	0.85601	2440.5783	2441.4343	---	---
		2480	0.86598	2479.5792	2480.4452	---	---
2DH5	Ant1	2402	1.1952	2401.4142	2402.6094	---	---
		2441	1.1849	2440.4169	2441.6018	---	---
		2480	1.1928	2479.4136	2480.6064	---	---
3DH5	Ant1	2402	1.1855	2401.4193	2402.6048	---	---
		2441	1.1856	2440.4182	2441.6038	---	---
		2480	1.1881	2479.4183	2480.6064	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



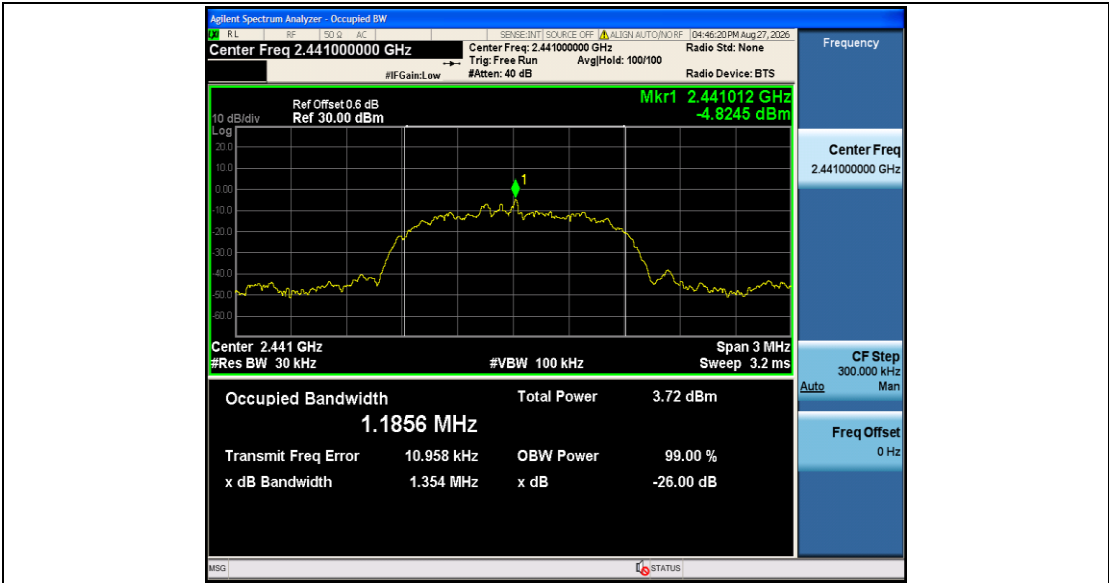
2DH5_Ant1_2480



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	-3.21	≤20.97	PASS
		2441	-3.27	≤20.97	PASS
		2480	-3.54	≤20.97	PASS
2DH5	Ant1	2402	-0.61	≤20.97	PASS
		2441	-0.67	≤20.97	PASS
		2480	-0.94	≤20.97	PASS
3DH5	Ant1	2402	-0.18	≤20.97	PASS
		2441	-0.29	≤20.97	PASS
		2480	-0.56	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.992	≥ 0.960	PASS
2DH5	Ant1	Hop	1.026	≥ 0.896	PASS
3DH5	Ant1	Hop	1.034	≥ 0.874	PASS

Test Graphs



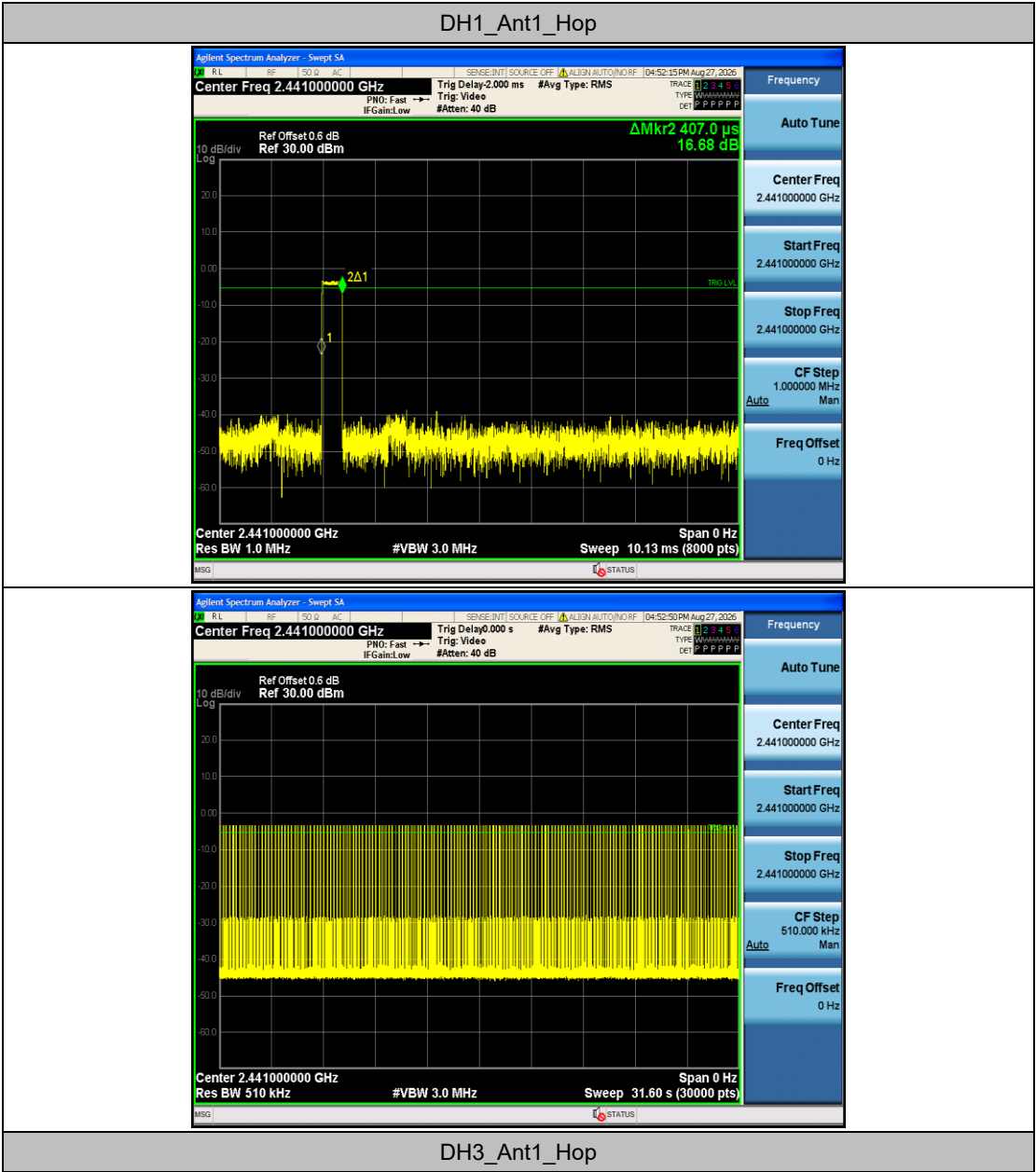


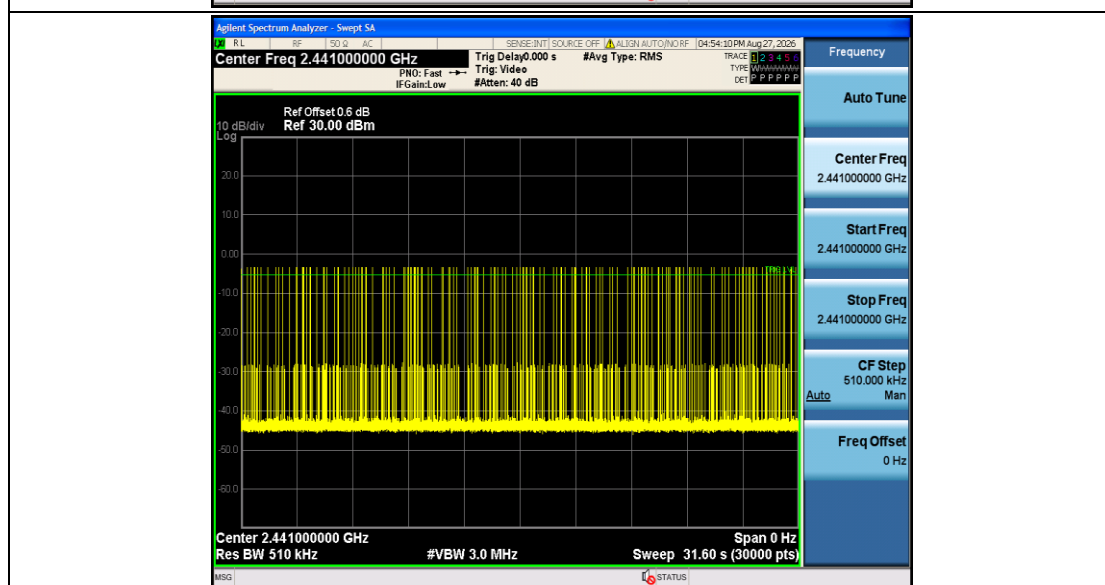
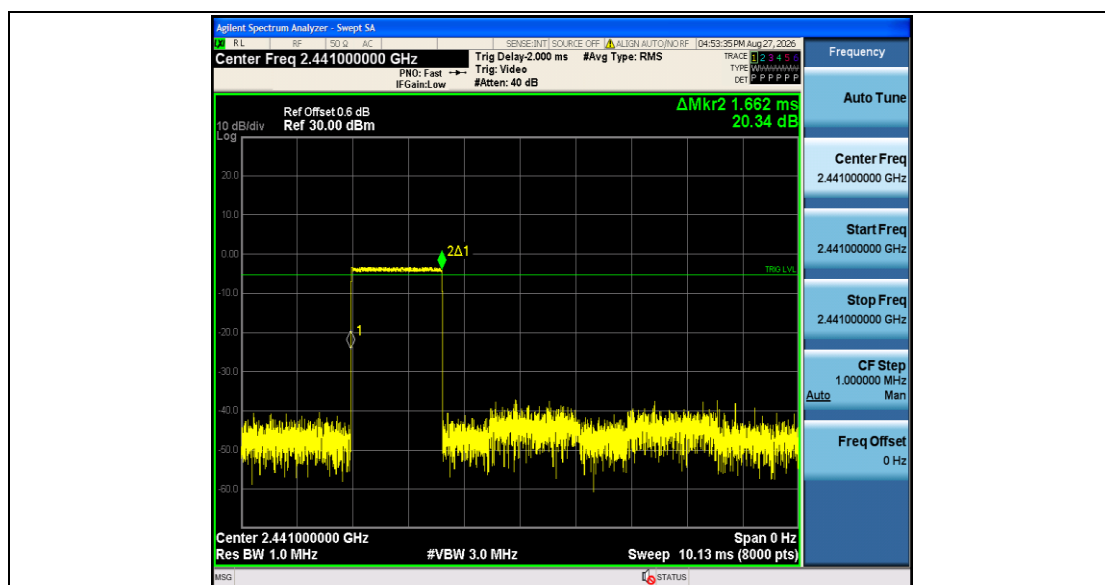
Appendix E: Time of occupancy

Test Result

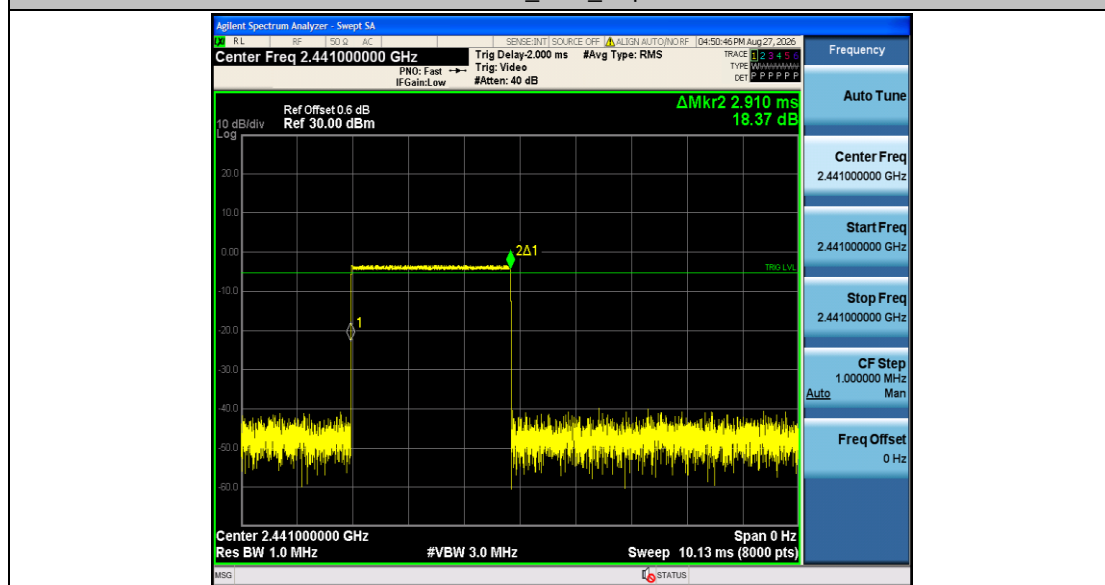
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	153	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.910	102	0.297	≤0.4	PASS
2DH1	Ant1	Hop	0.415	316	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.668	163	0.272	≤0.4	PASS
2DH5	Ant1	Hop	2.916	101	0.295	≤0.4	PASS
3DH1	Ant1	Hop	0.415	0	0	≤0.4	PASS
3DH3	Ant1	Hop	1.666	158	0.263	≤0.4	PASS
3DH5	Ant1	Hop	2.917	112	0.327	≤0.4	PASS

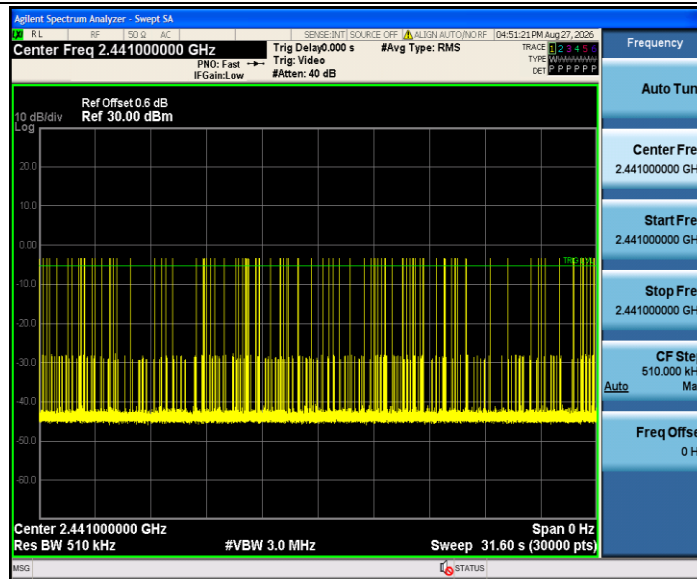
Test Graphs



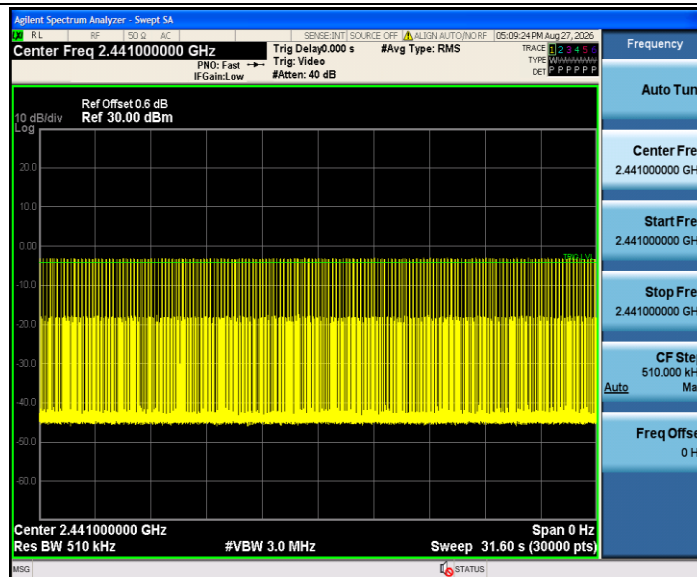
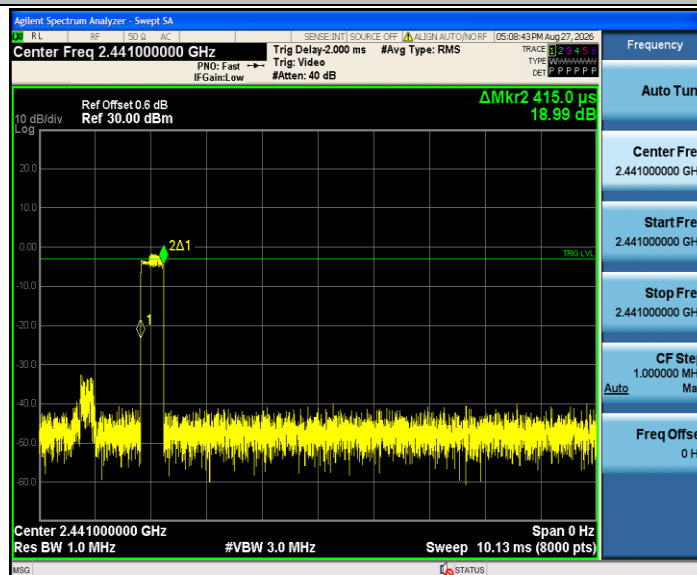


DH5_Ant1_Hop

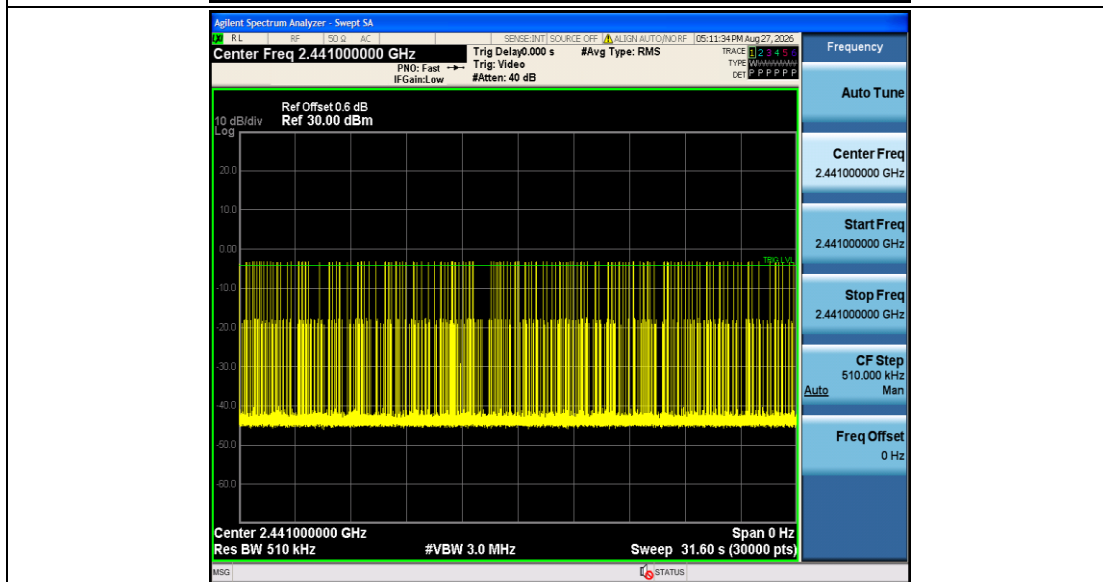
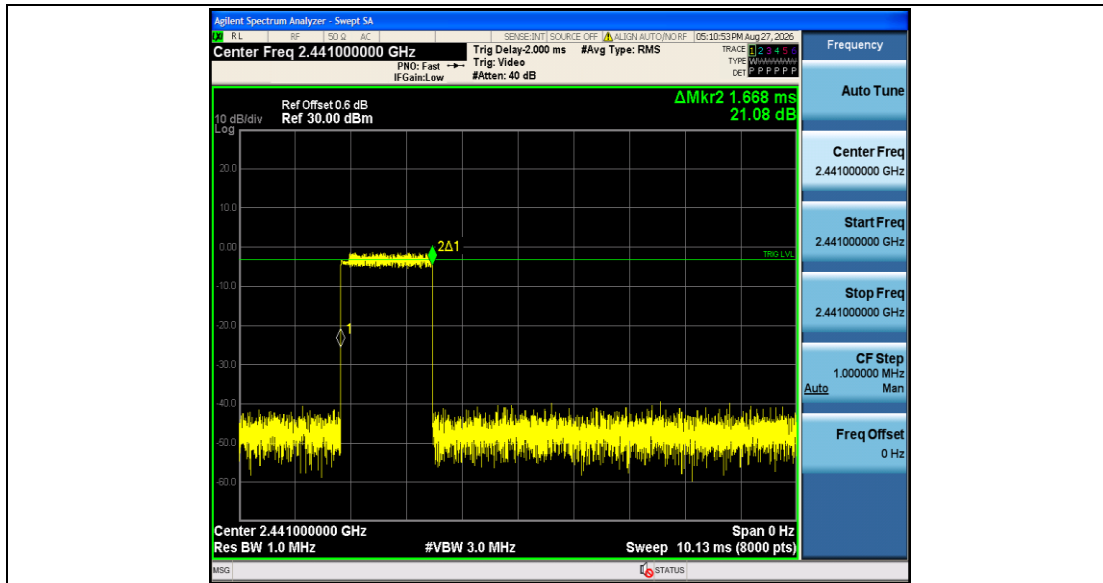




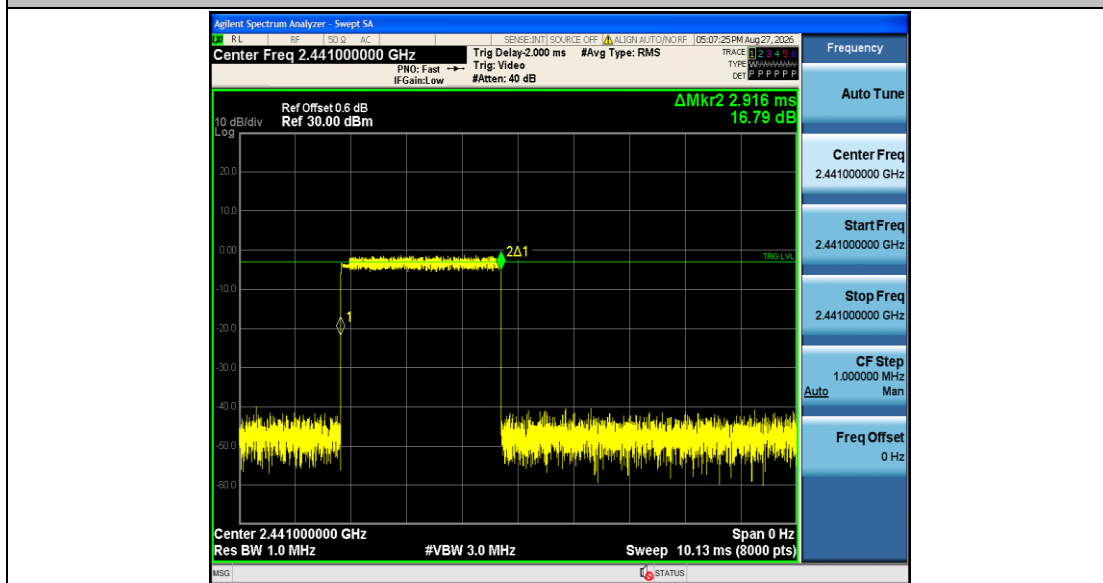
2DH1_Ant1_Hop

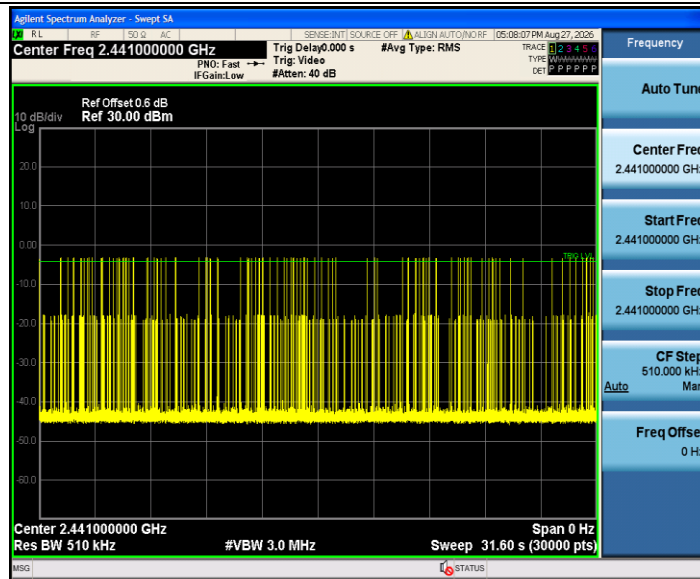


2DH3_Ant1_Hop

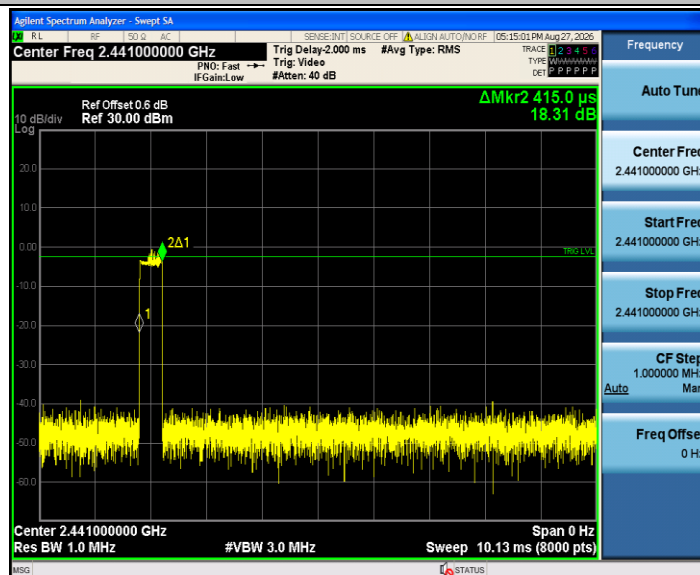


2DH5_Ant1_Hop

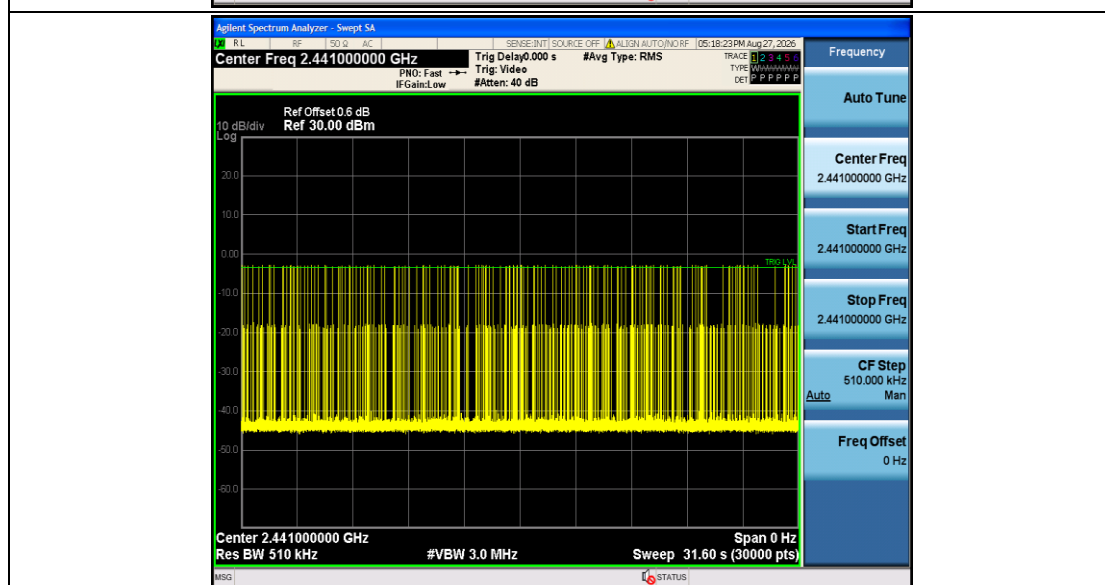
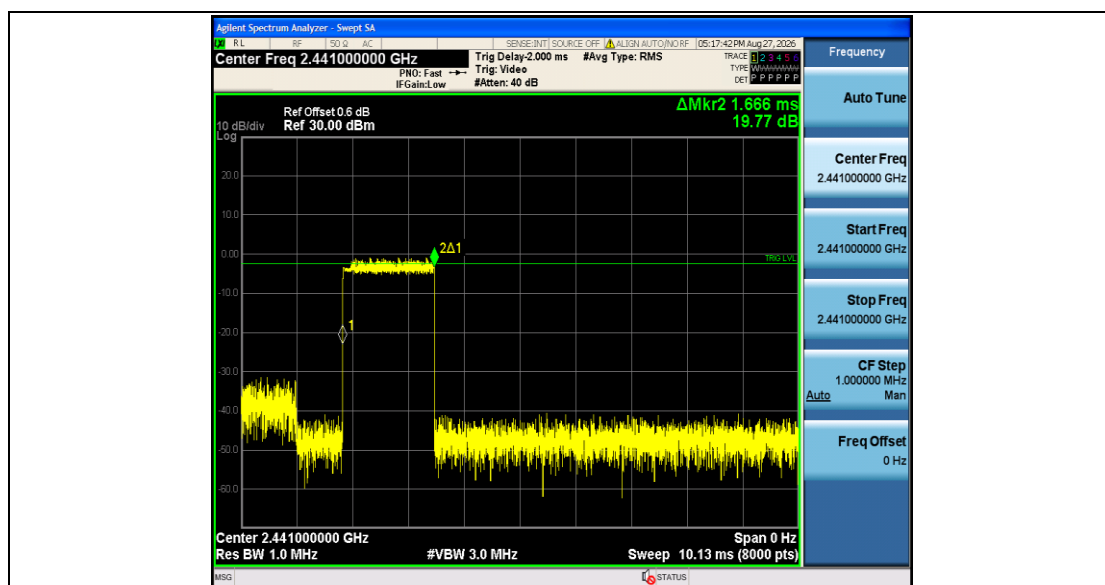




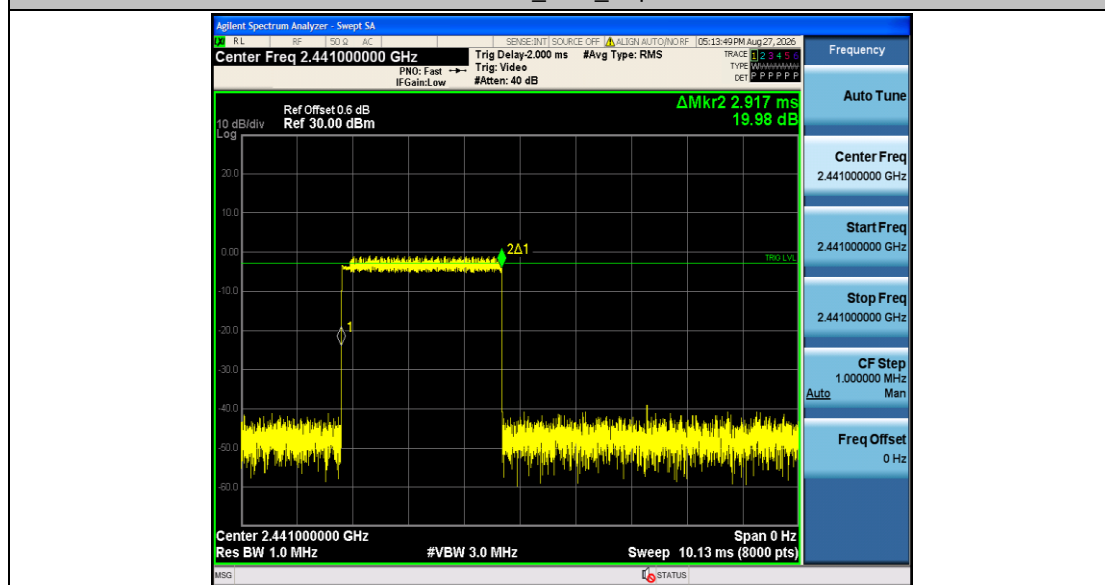
3DH1_Ant1_Hop

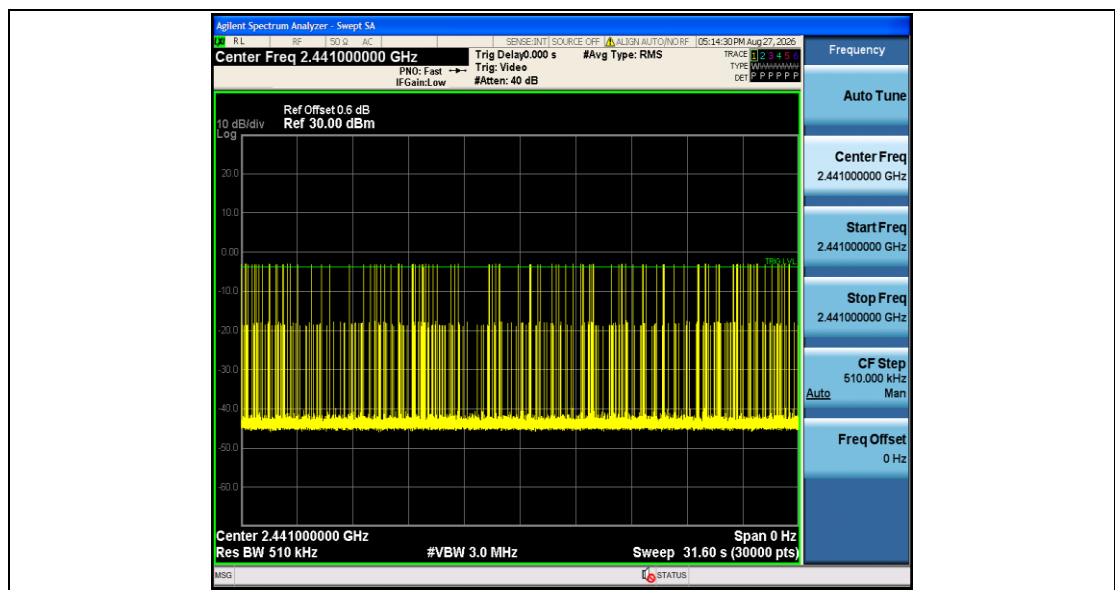


3DH3_Ant1_Hop



3DH5_Ant1_Hop



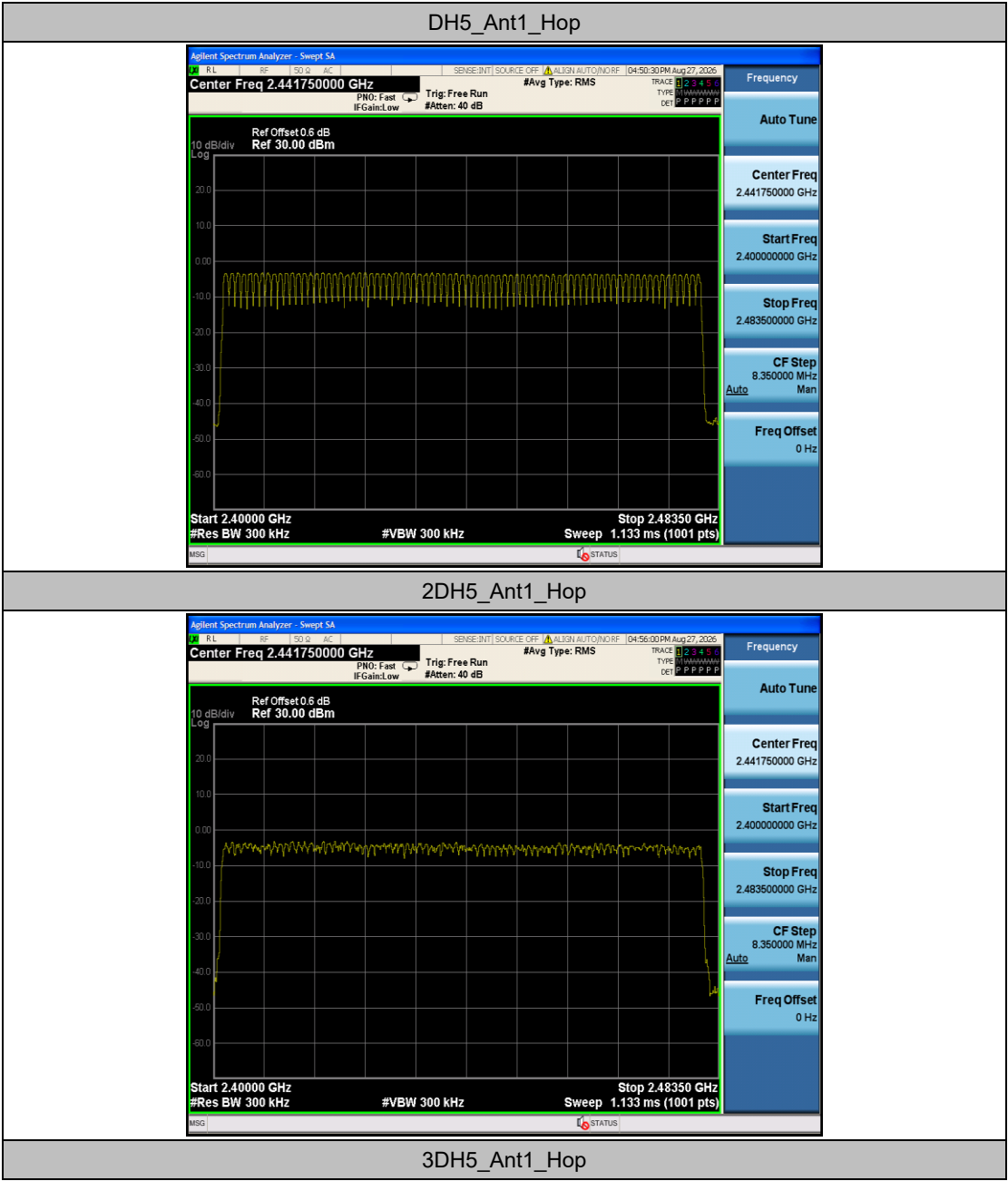


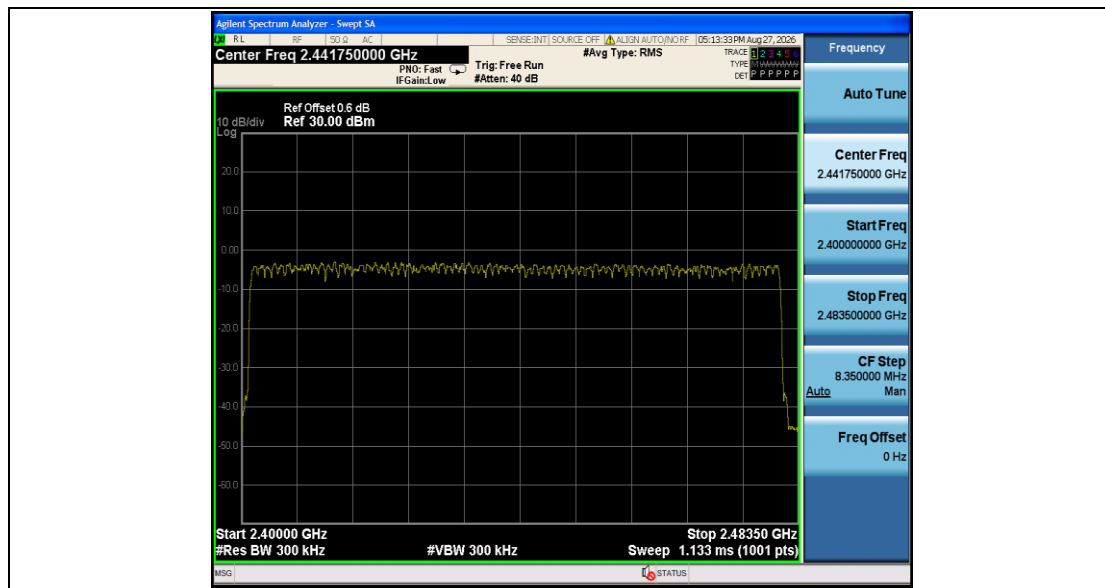
Appendix F: Number of hopping channels

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



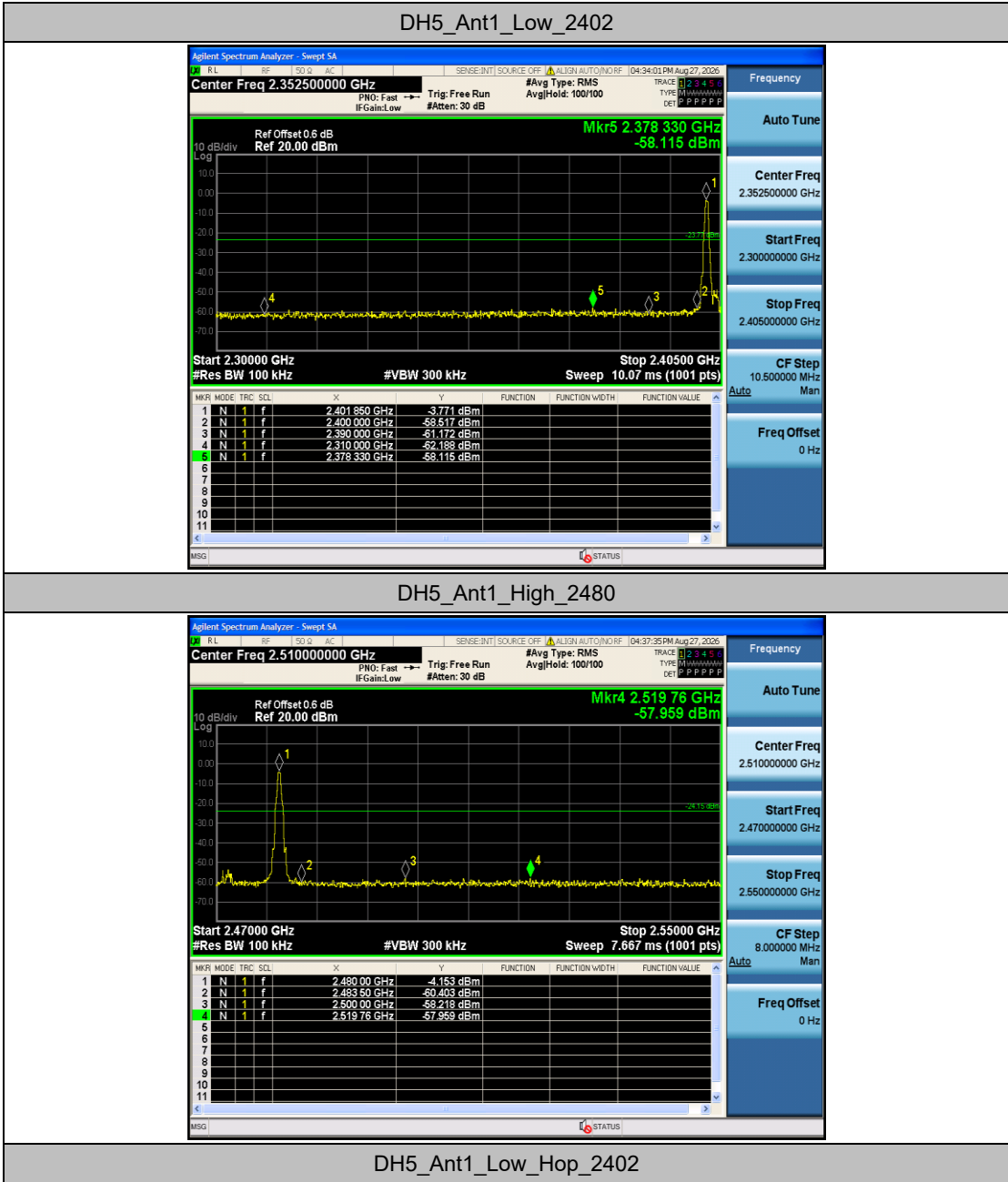


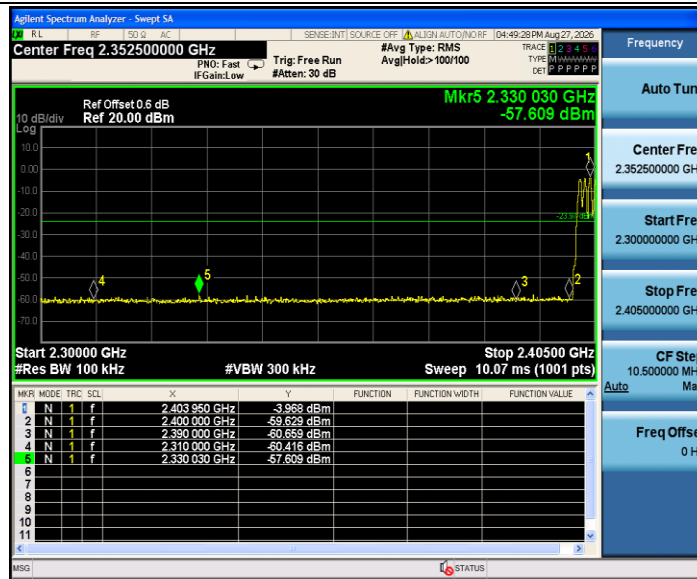
Appendix G: Band edge measurements

Test Result

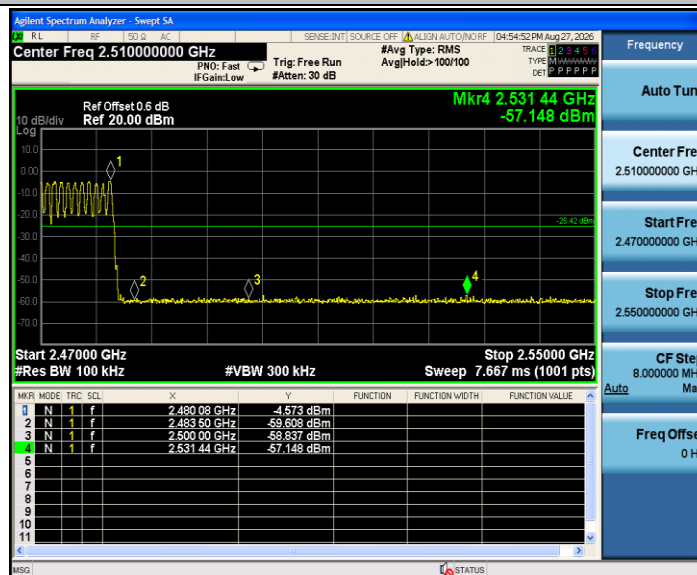
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.77	-58.12	≤ -23.77	PASS
		High	2480	-4.15	-57.96	≤ -24.15	PASS
		Low	Hop_2402	-3.97	-57.61	≤ -23.97	PASS
		High	Hop_2480	-5.42	-57.15	≤ -25.42	PASS
2DH5	Ant1	Low	2402	-3.19	-56.93	≤ -23.19	PASS
		High	2480	-4.77	-57.61	≤ -24.77	PASS
		Low	Hop_2402	-3.27	-57.94	≤ -23.27	PASS
		High	Hop_2480	-4.99	-57.41	≤ -24.99	PASS
3DH5	Ant1	Low	2402	-3.84	-55.25	≤ -23.84	PASS
		High	2480	-4.08	-57.49	≤ -24.08	PASS
		Low	Hop_2402	-3.33	-57.63	≤ -23.33	PASS
		High	Hop_2480	-3.77	-57.42	≤ -23.77	PASS

Test Graphs

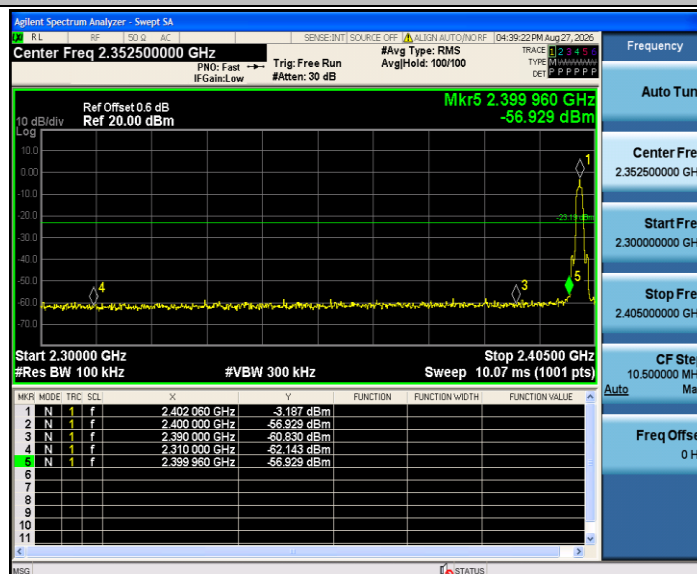




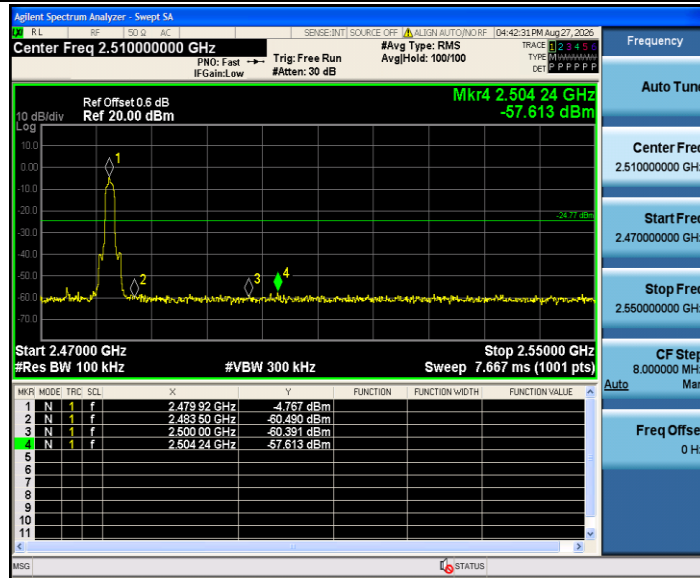
DH5_Ant1_High_Hop_2480



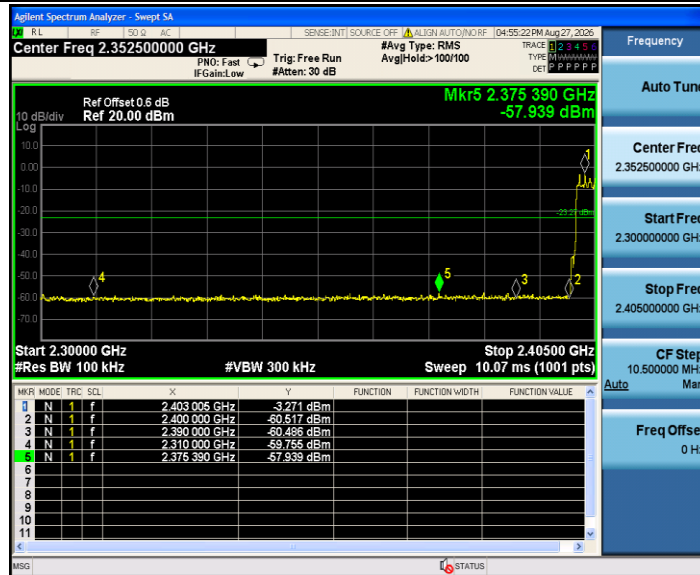
2DH5_Ant1_Low_2402



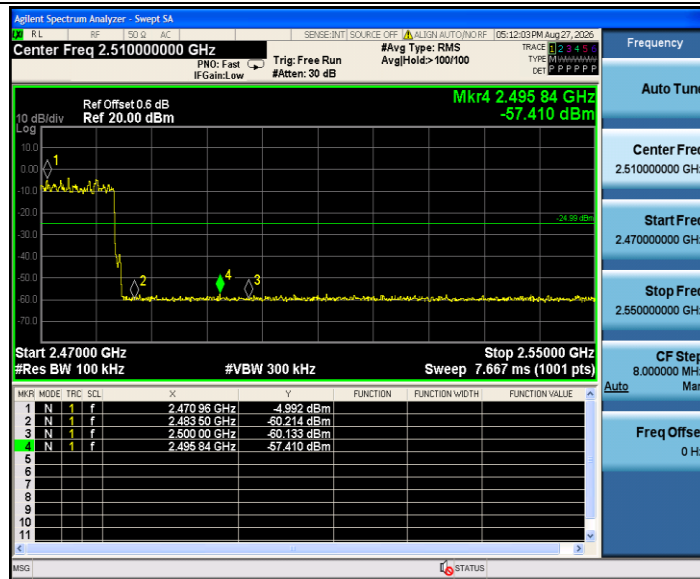
2DH5_Ant1_High_2480



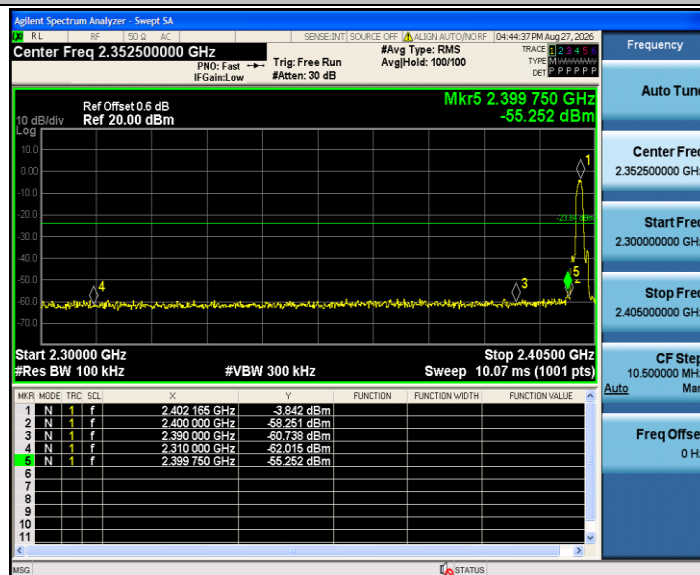
2DH5_Ant1_Low_Hop_2402



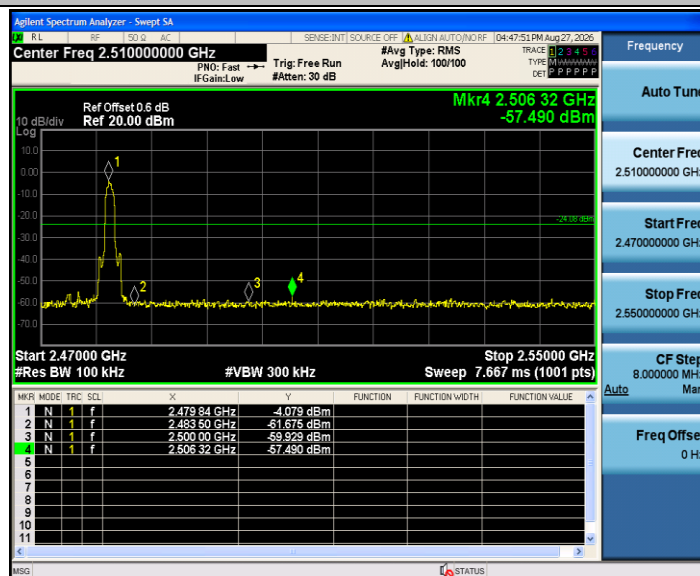
2DH5_Ant1_High_Hop_2480



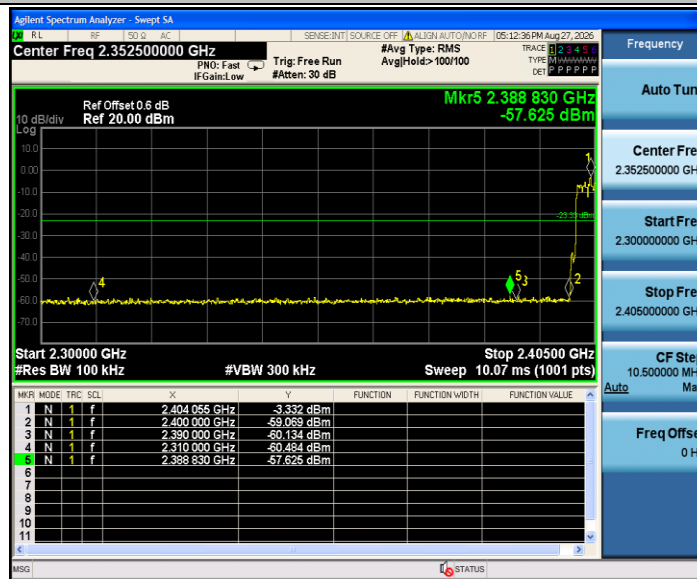
3DH5_Ant1_Low_2402



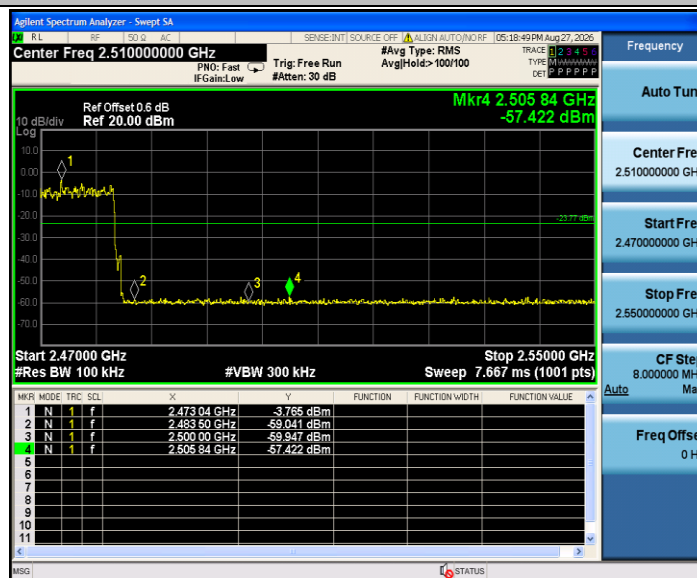
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

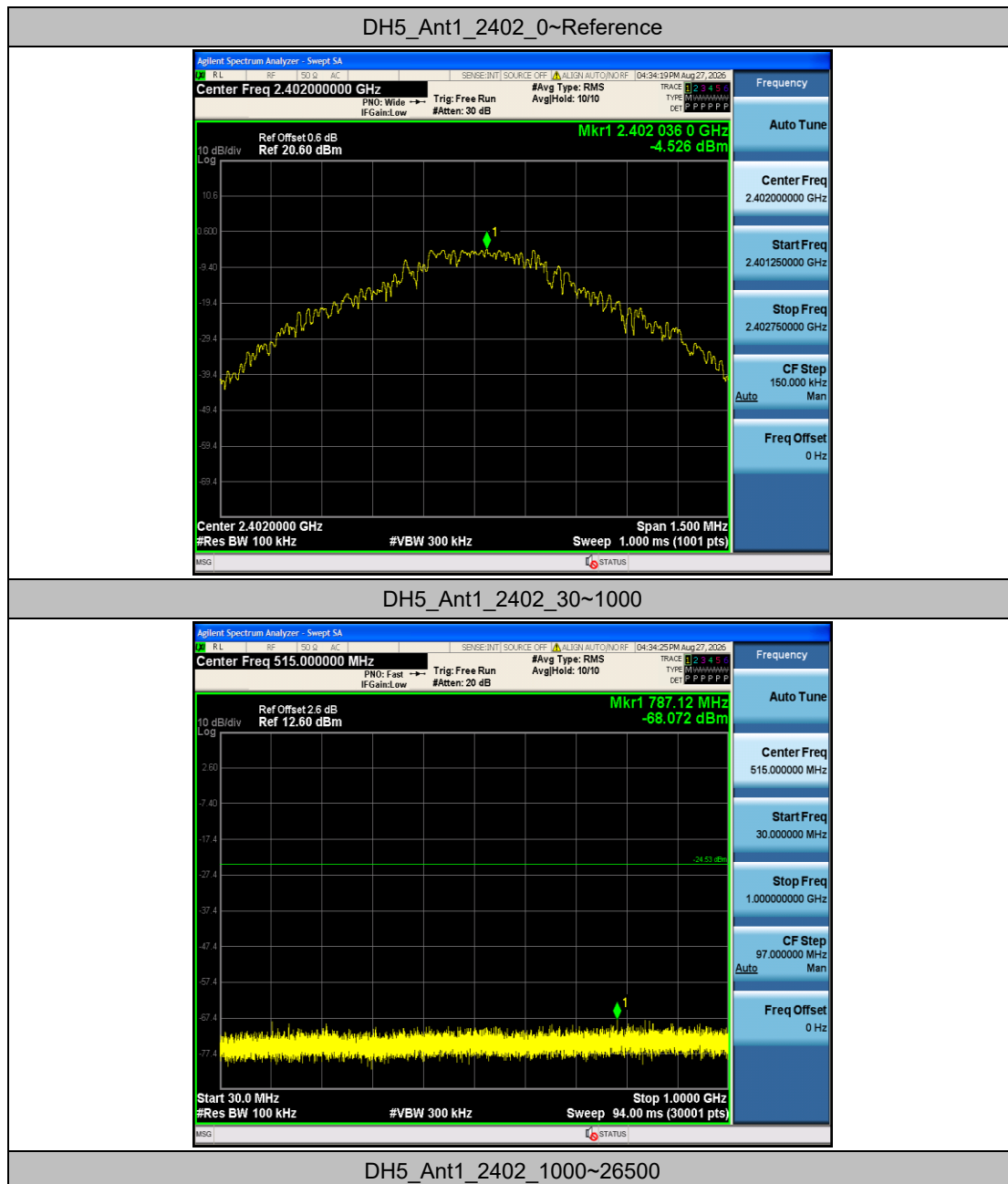


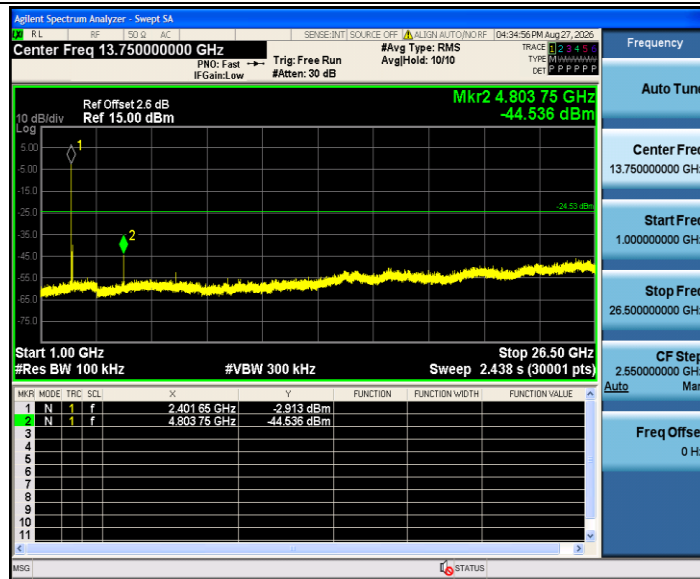
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.53	-4.53	---	PASS
			30~1000	-4.53	-68.07	≤-24.53	PASS
			1000~26500	-4.53	-44.54	≤-24.53	PASS
		2441	Reference	-3.57	-3.57	---	PASS
			30~1000	-3.57	-68.36	≤-23.57	PASS
			1000~26500	-3.57	-45.99	≤-23.57	PASS
		2480	Reference	-4.19	-4.19	---	PASS
			30~1000	-4.19	-68.73	≤-24.19	PASS
			1000~26500	-4.19	-46.33	≤-24.19	PASS
2DH5	Ant1	2402	Reference	-5.60	-5.60	---	PASS
			30~1000	-5.60	-68.28	≤-25.6	PASS
			1000~26500	-5.60	-46.27	≤-25.6	PASS
		2441	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-68.89	≤-24.13	PASS
			1000~26500	-4.13	-46.04	≤-24.13	PASS
		2480	Reference	-5.19	-5.19	---	PASS
			30~1000	-5.19	-68.18	≤-25.19	PASS
			1000~26500	-5.19	-46.42	≤-25.19	PASS
3DH5	Ant1	2402	Reference	-6.11	-6.11	---	PASS
			30~1000	-6.11	-67.48	≤-26.11	PASS
			1000~26500	-6.11	-44.68	≤-26.11	PASS
		2441	Reference	-6.08	-6.08	---	PASS
			30~1000	-6.08	-67.75	≤-26.08	PASS
			1000~26500	-6.08	-45.79	≤-26.08	PASS
		2480	Reference	-4.34	-4.34	---	PASS
			30~1000	-4.34	-68.67	≤-24.34	PASS
			1000~26500	-4.34	-46.61	≤-24.34	PASS

Test Graphs

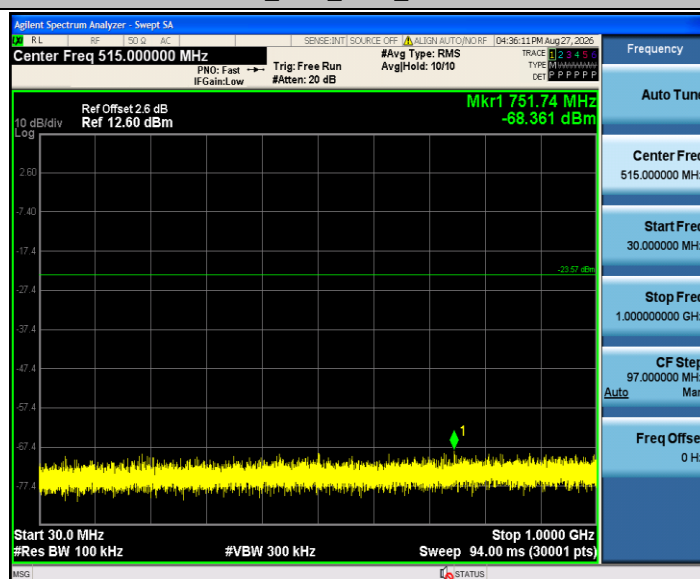




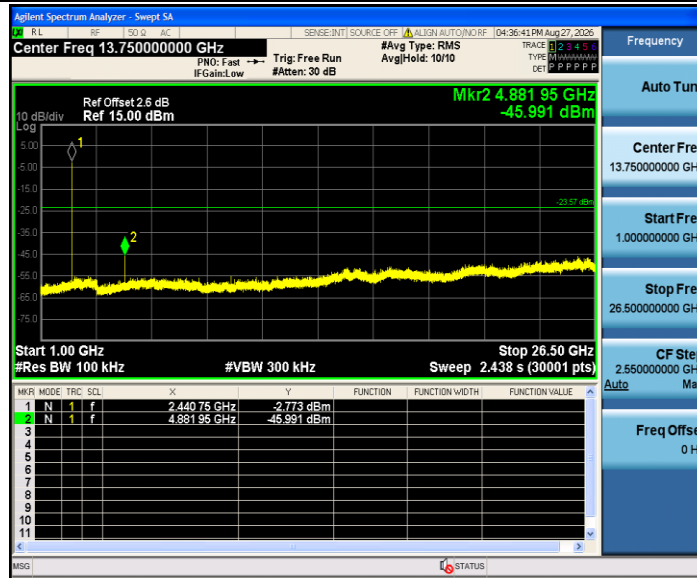
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



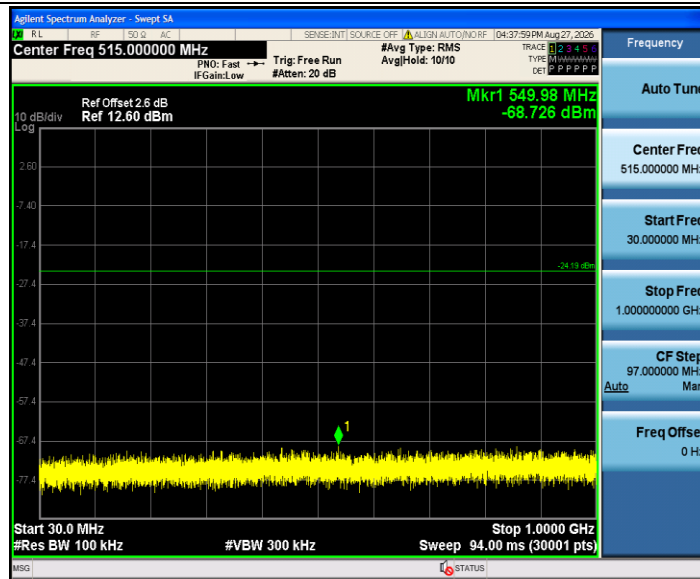
DH5_Ant1_2441_1000~26500



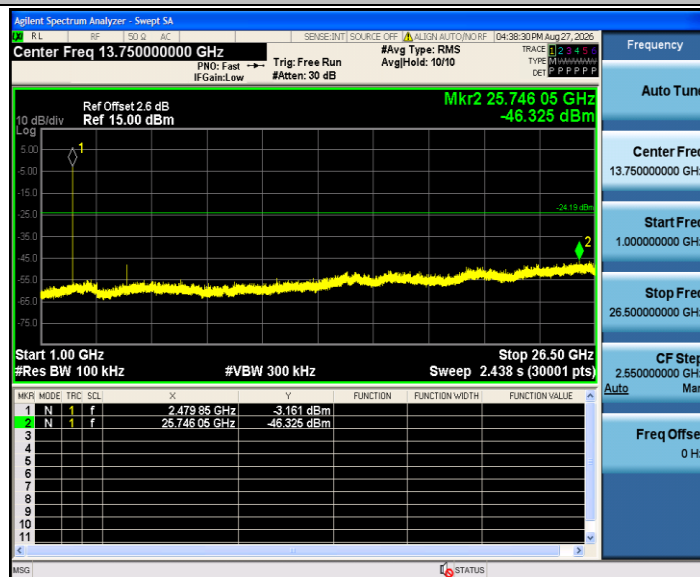
DH5_Ant1_2480_0~Reference



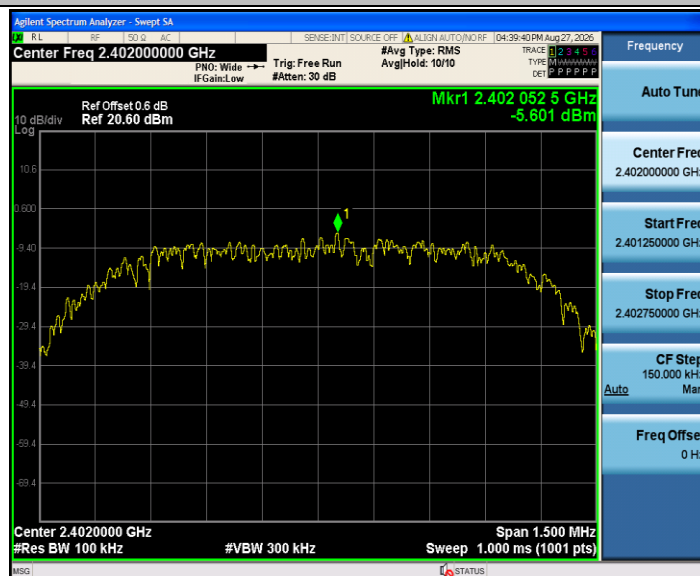
DH5_Ant1_2480_30~1000



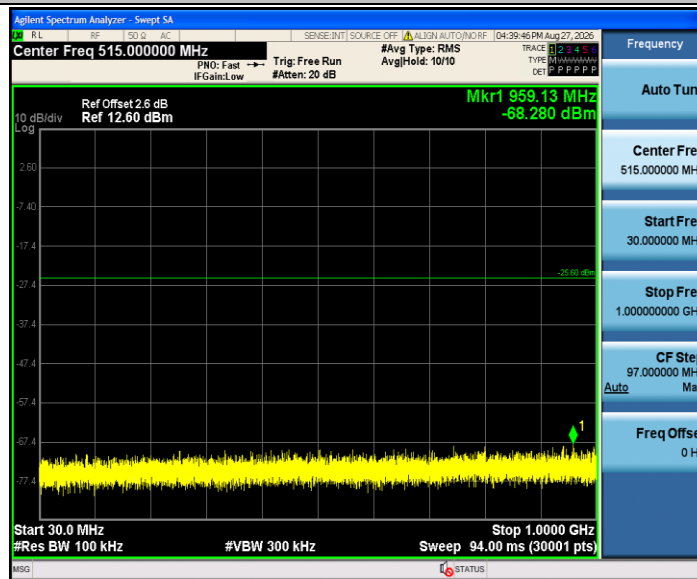
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference