

FCC Appendix RF Test Data for BT

FCC ID : 2BVJG-XHD-P501

Company : Bonvir (Dongguan) Electronics Co.,LTD.

EUT : Game controller

Model Number : XHD-P501

Report No. : CTA26032602002

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	2401.544	2402.504	---	---
		2441	0.963	2440.541	2441.504	---	---
		2480	0.939	2479.553	2480.492	---	---
2DH5	Ant1	2402	1.347	2401.334	2402.681	---	---
		2441	1.272	2440.382	2441.654	---	---
		2480	1.323	2479.349	2480.672	---	---
3DH5	Ant1	2402	1.275	2401.367	2402.642	---	---
		2441	1.308	2440.367	2441.675	---	---
		2480	1.314	2479.358	2480.672	---	---

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	0.86165	2401.5771	2402.4387	---	---
		2441	0.86737	2440.5767	2441.4441	---	---
		2480	0.85466	2479.5804	2480.4350	---	---
2DH5	Ant1	2402	1.1825	2401.4173	2402.5998	---	---
		2441	1.1839	2440.4170	2441.6009	---	---
		2480	1.1928	2479.4137	2480.6065	---	---
3DH5	Ant1	2402	1.1922	2401.4205	2402.6127	---	---
		2441	1.1930	2440.4138	2441.6068	---	---
		2480	1.1946	2479.4150	2480.6096	---	---

Test Graphs

DH5_Ant1_2402



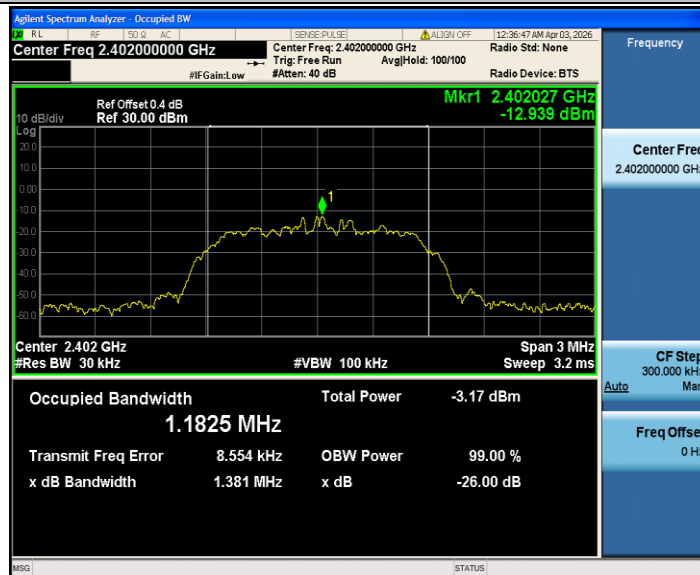
DH5_Ant1_2441



DH5_Ant1_2480



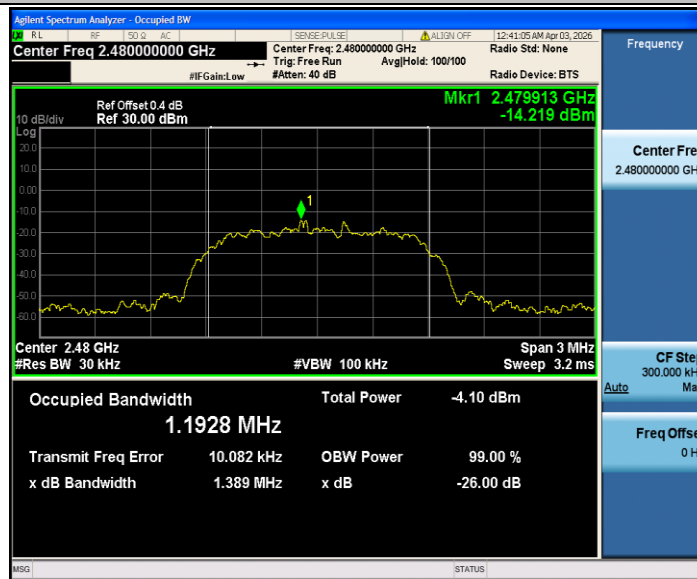
2DH5_Ant1_2402



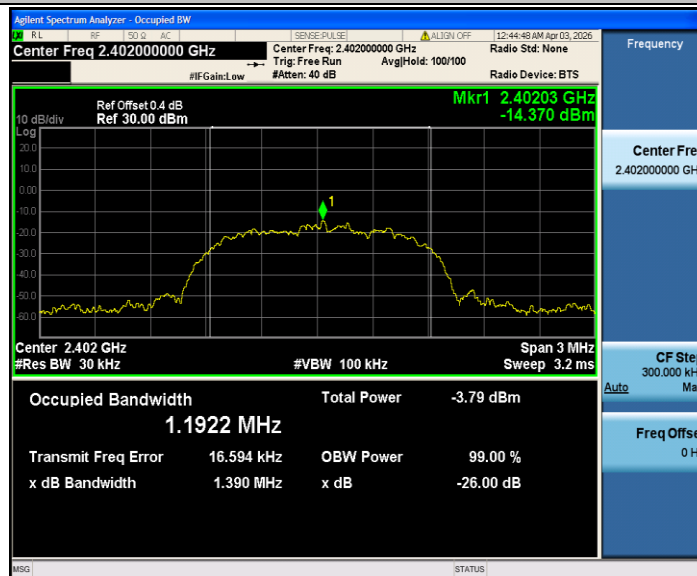
2DH5_Ant1_2441



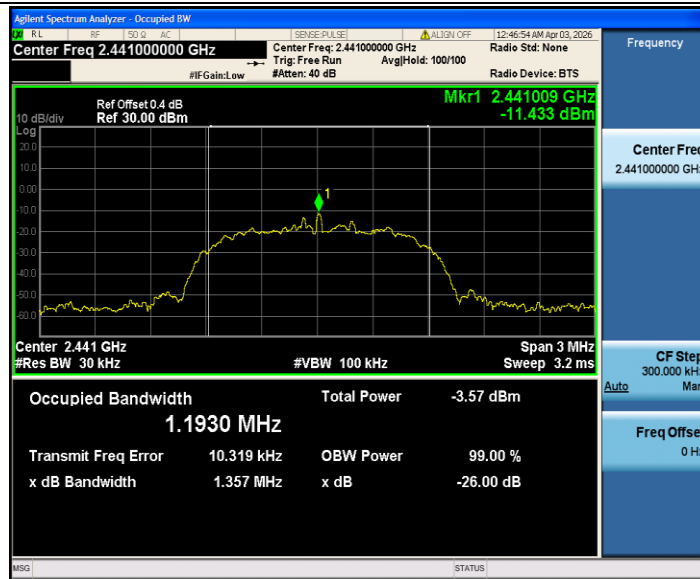
2DH5_Ant1_2480



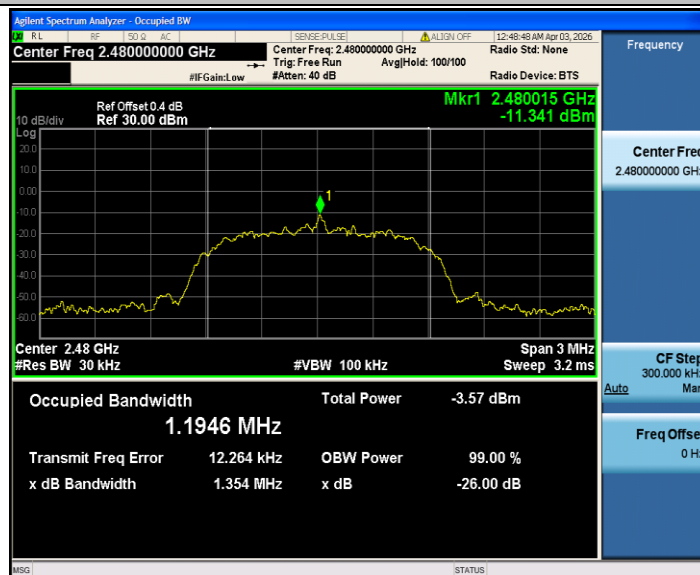
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

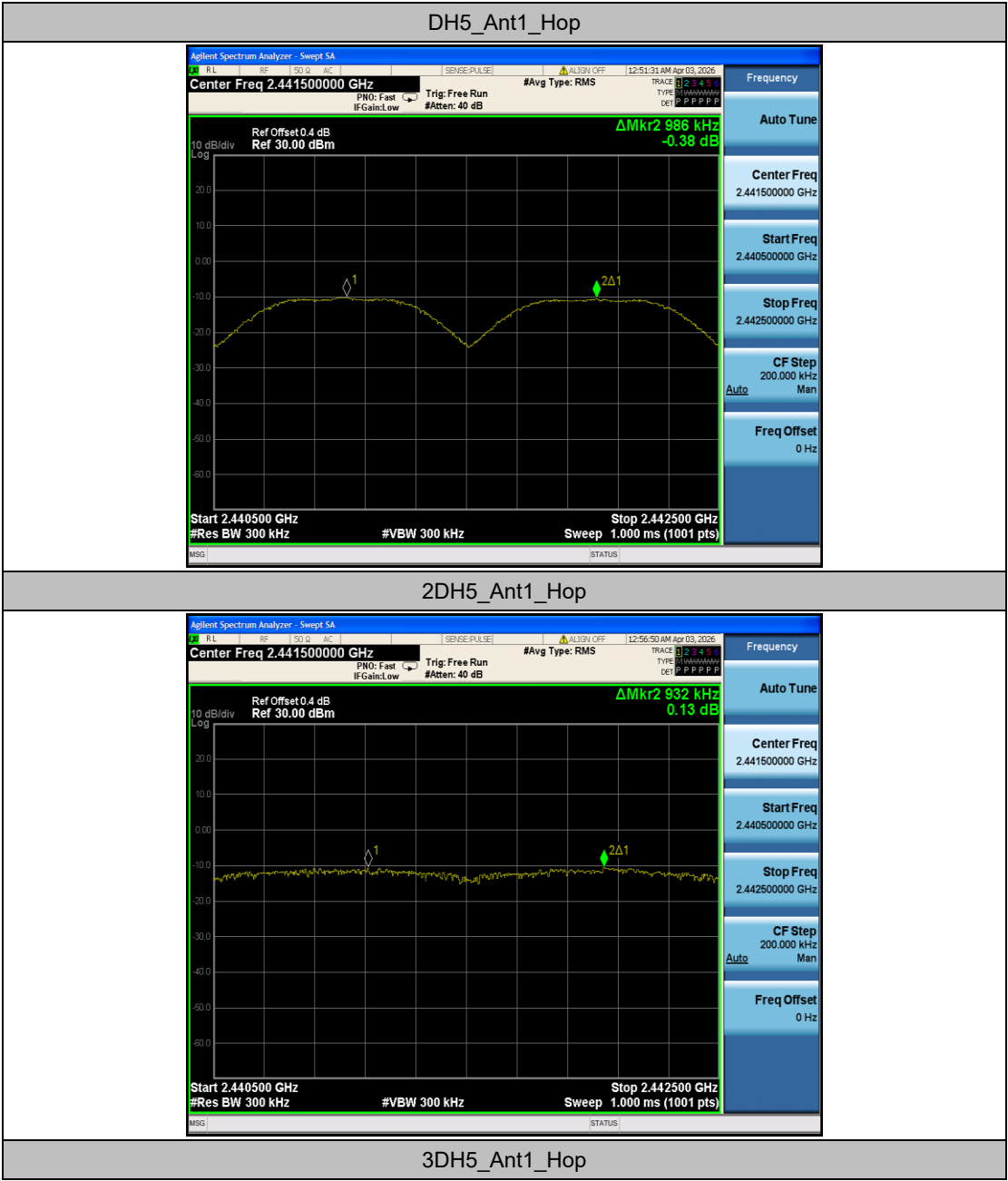
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-6.63	≤20.97	PASS
		2441	-6.86	≤20.97	PASS
		2480	-6.94	≤20.97	PASS
2DH5	Ant1	2402	-7.42	≤20.97	PASS
		2441	-7.68	≤20.97	PASS
		2480	-7.72	≤20.97	PASS
3DH5	Ant1	2402	-7.24	≤20.97	PASS
		2441	-7.46	≤20.97	PASS
		2480	-7.67	≤20.97	PASS

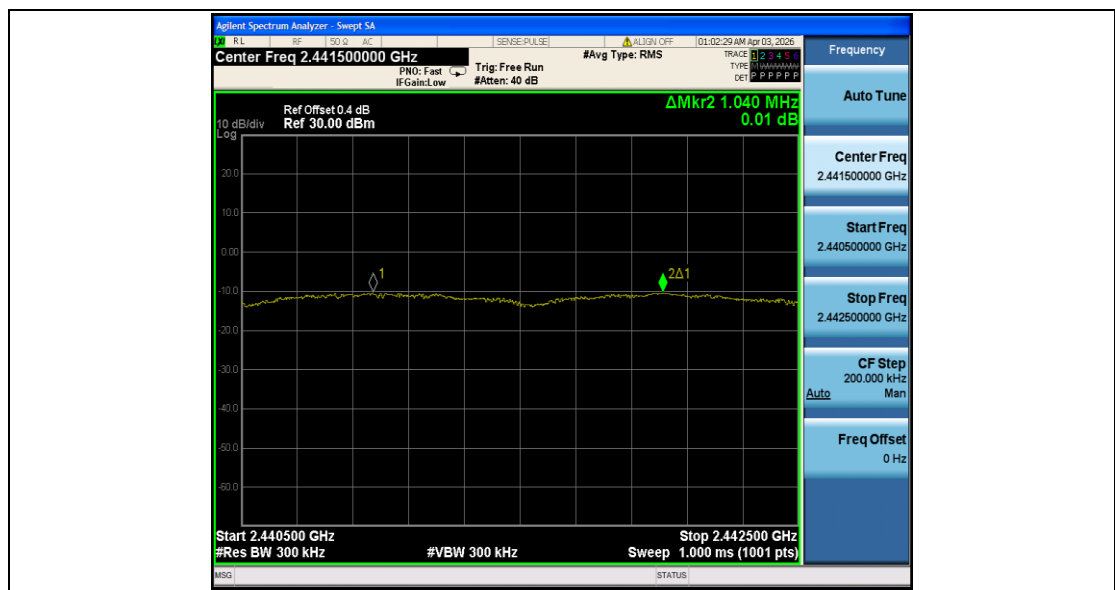
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.986	≥ 0.963	PASS
2DH5	Ant1	Hop	0.932	≥ 0.898	PASS
3DH5	Ant1	Hop	1.04	≥ 0.876	PASS

Test Graphs



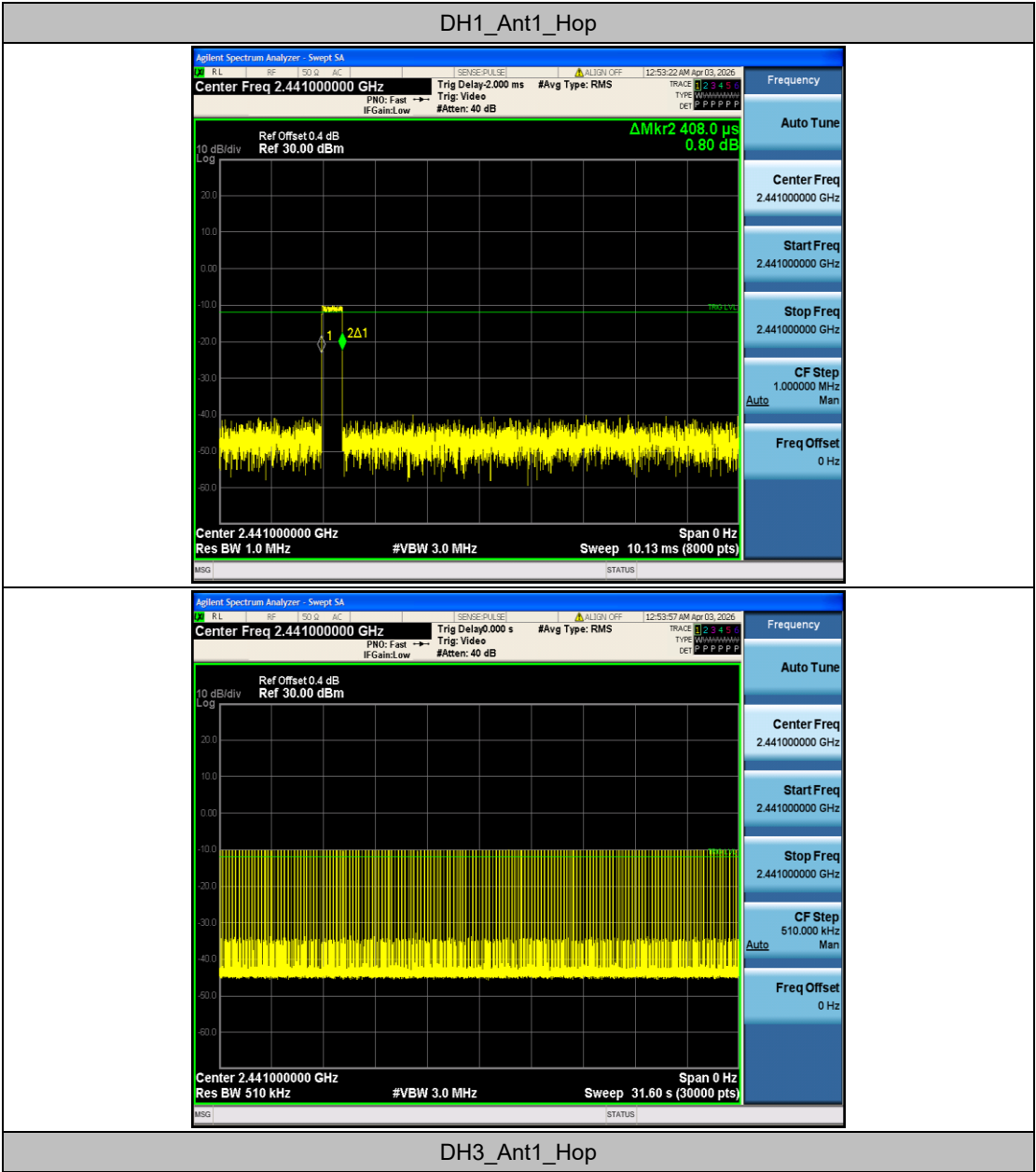


Appendix E: Time of occupancy

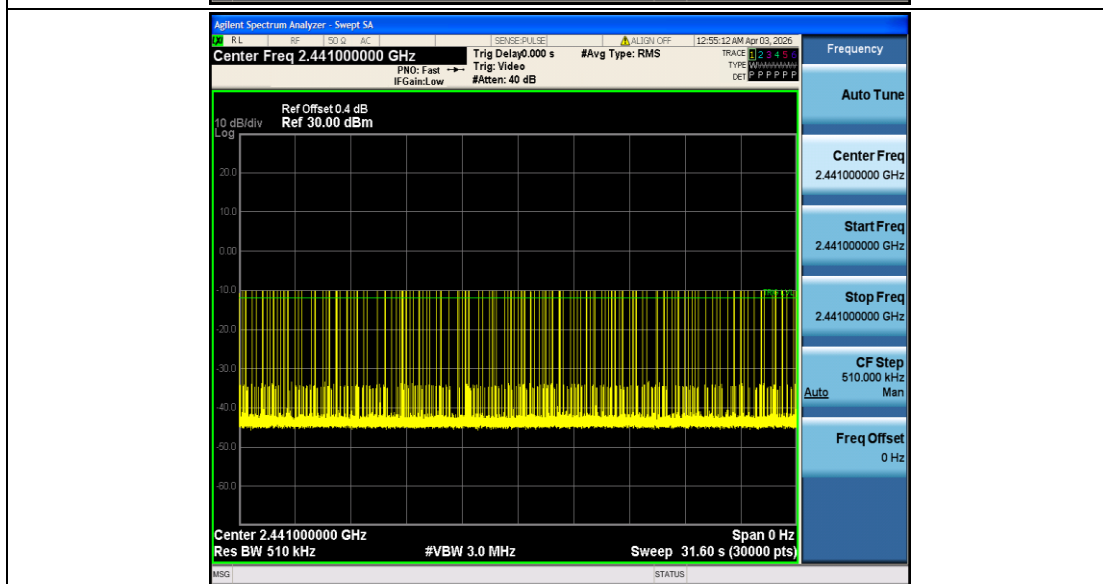
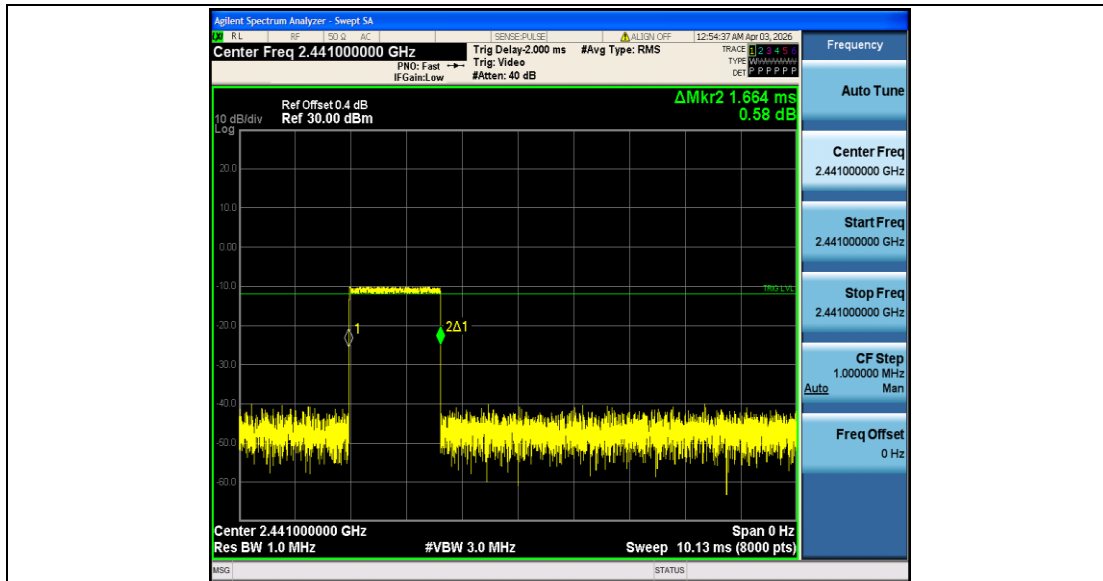
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.408	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.664	162	0.27	≤0.4	PASS
DH5	Ant1	Hop	2.912	100	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.417	319	0.133	≤0.4	PASS
2DH3	Ant1	Hop	1.668	164	0.274	≤0.4	PASS
2DH5	Ant1	Hop	2.916	108	0.315	≤0.4	PASS
3DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.666	157	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.918	122	0.356	≤0.4	PASS

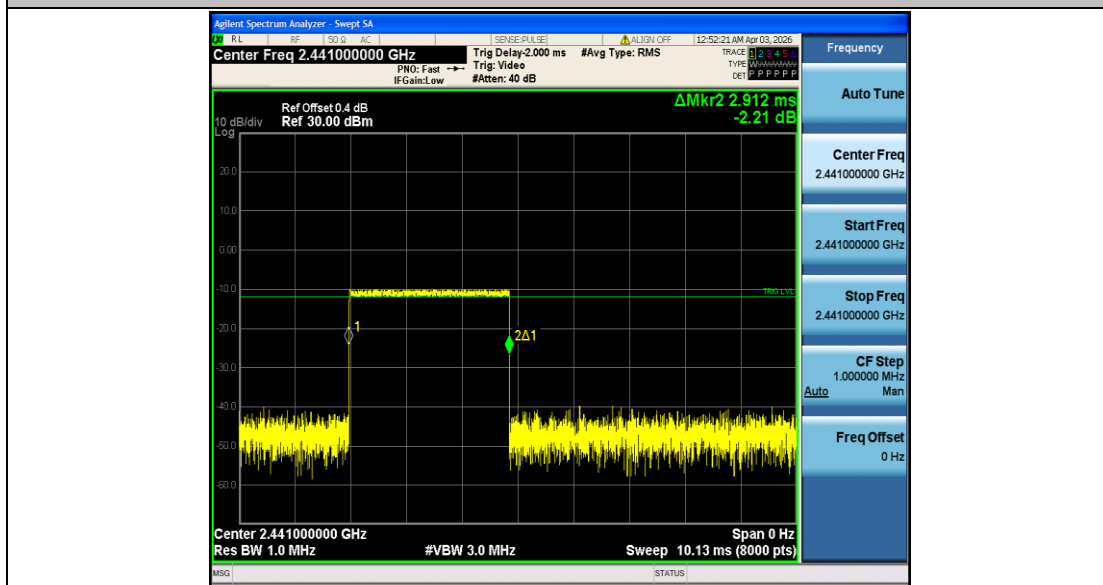
Test Graphs

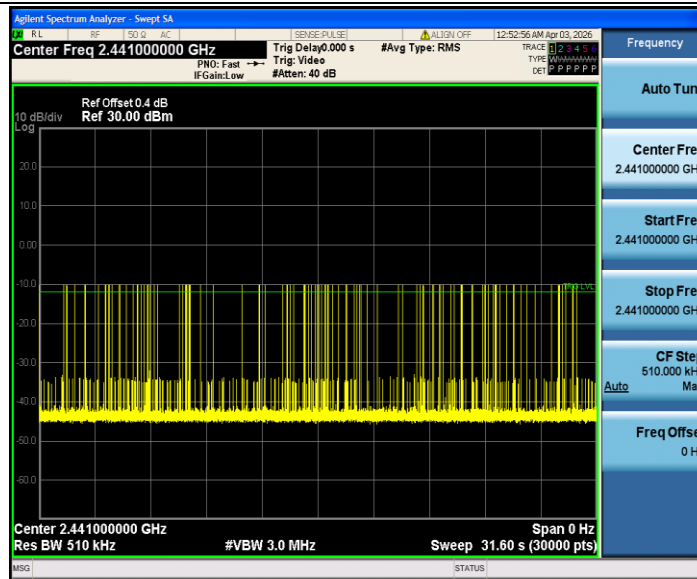


DH3_Ant1_Hop

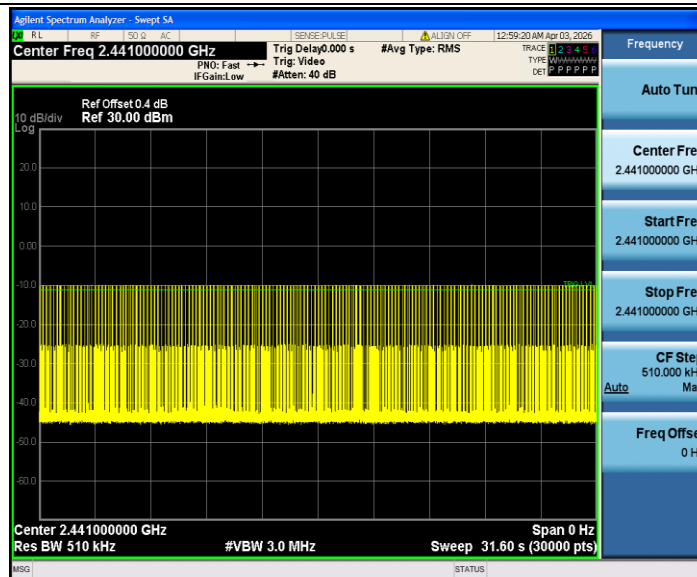
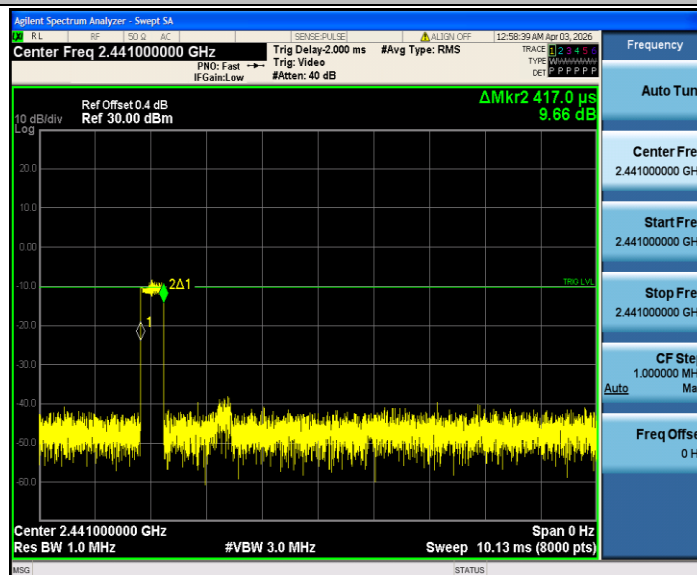


DH5_Ant1_Hop

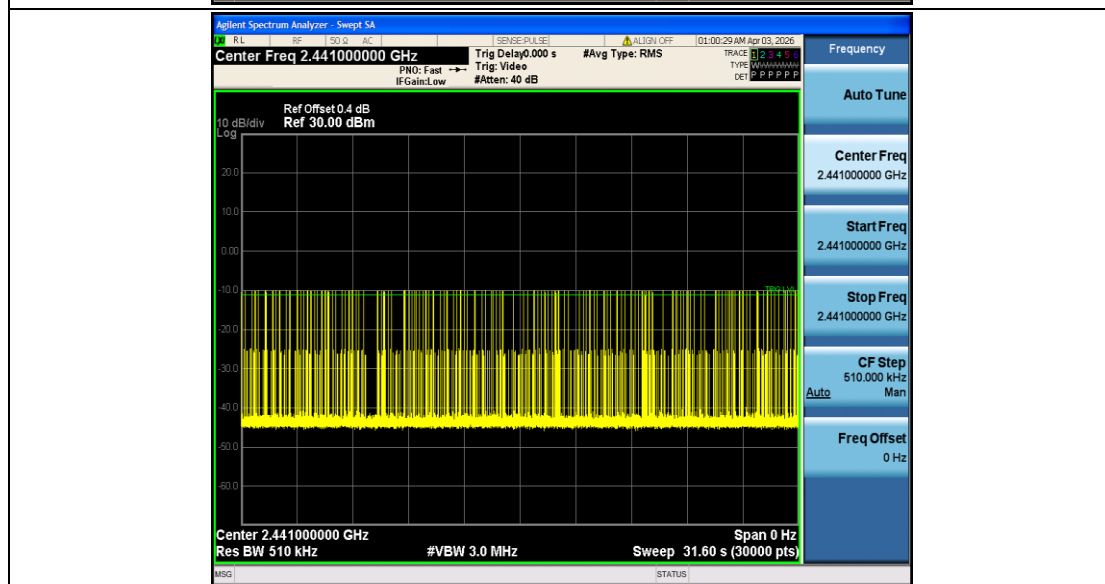
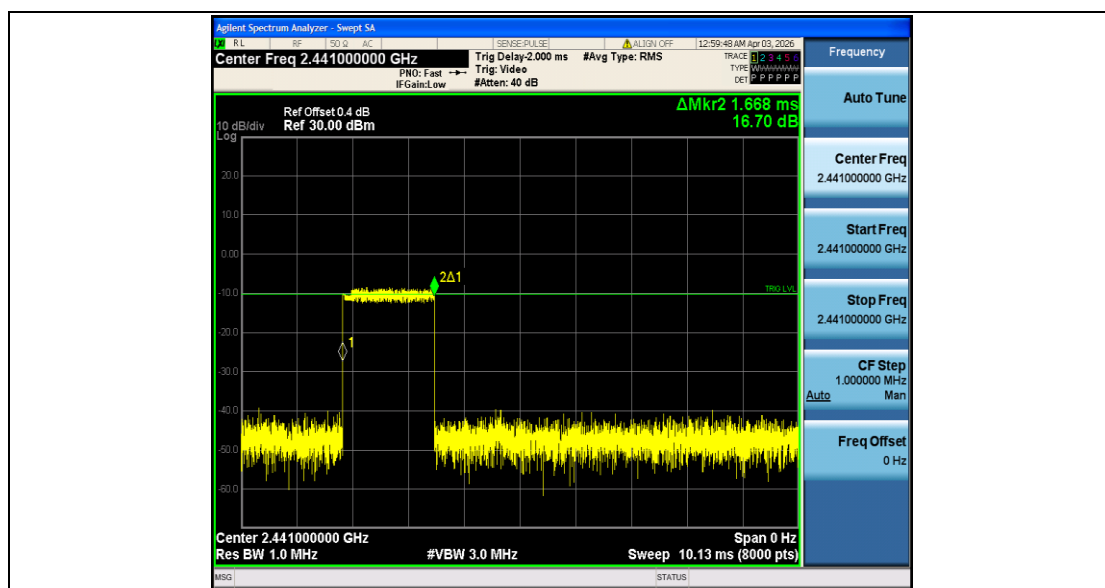




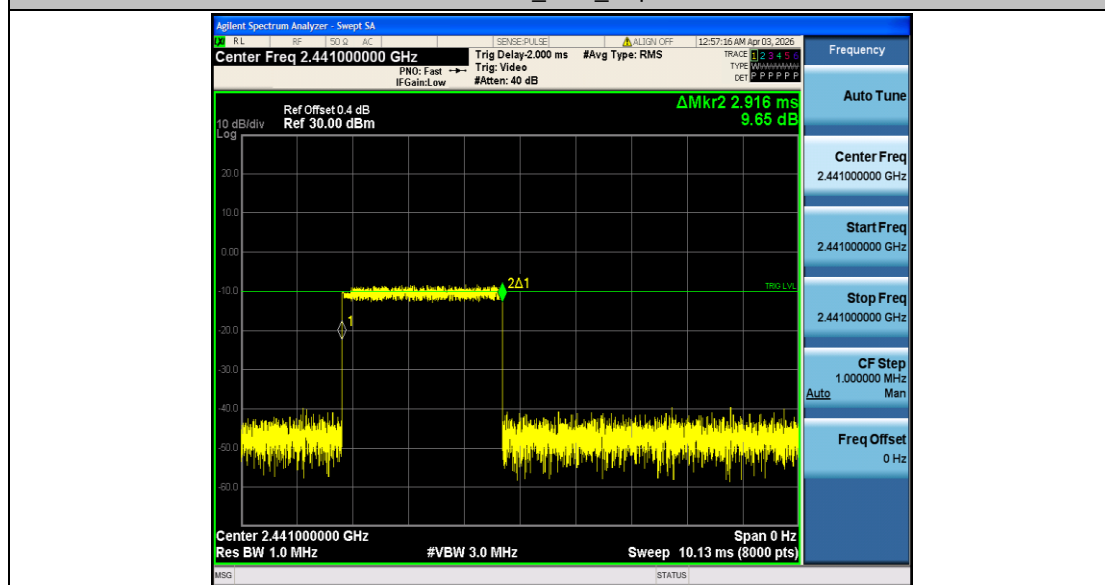
2DH1_Ant1_Hop

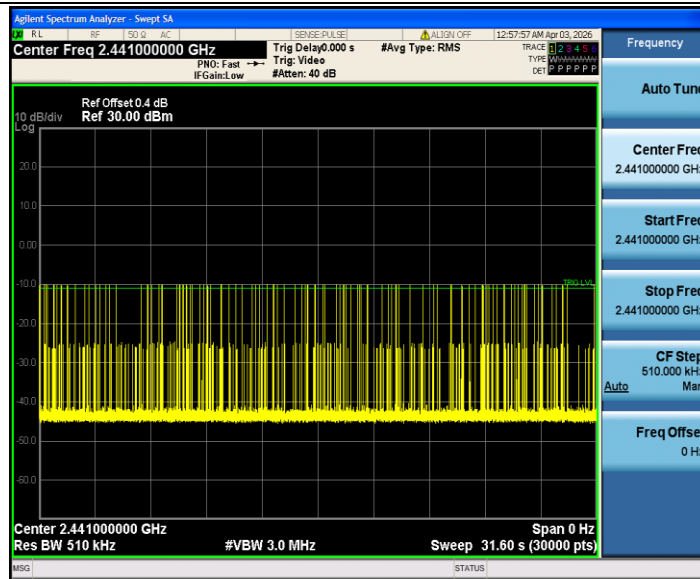


2DH3_Ant1_Hop

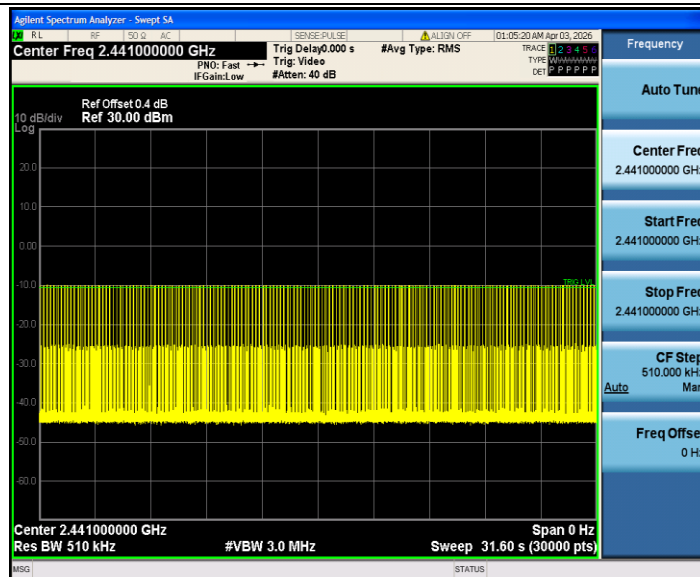
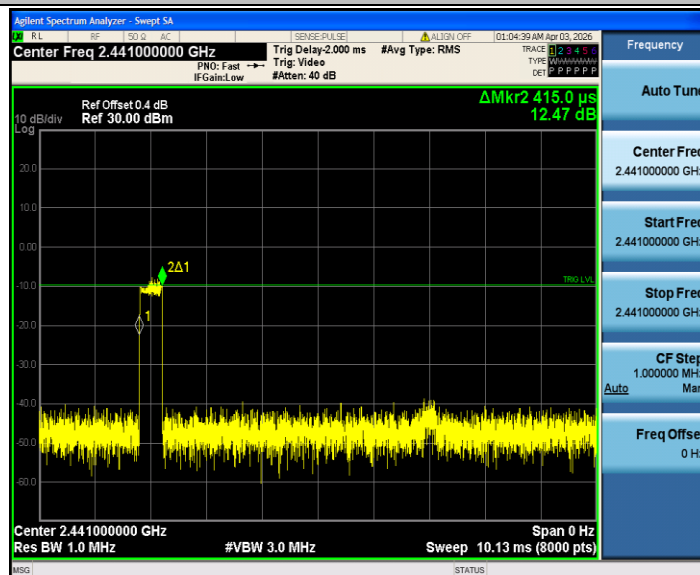


2DH5_Ant1_Hop

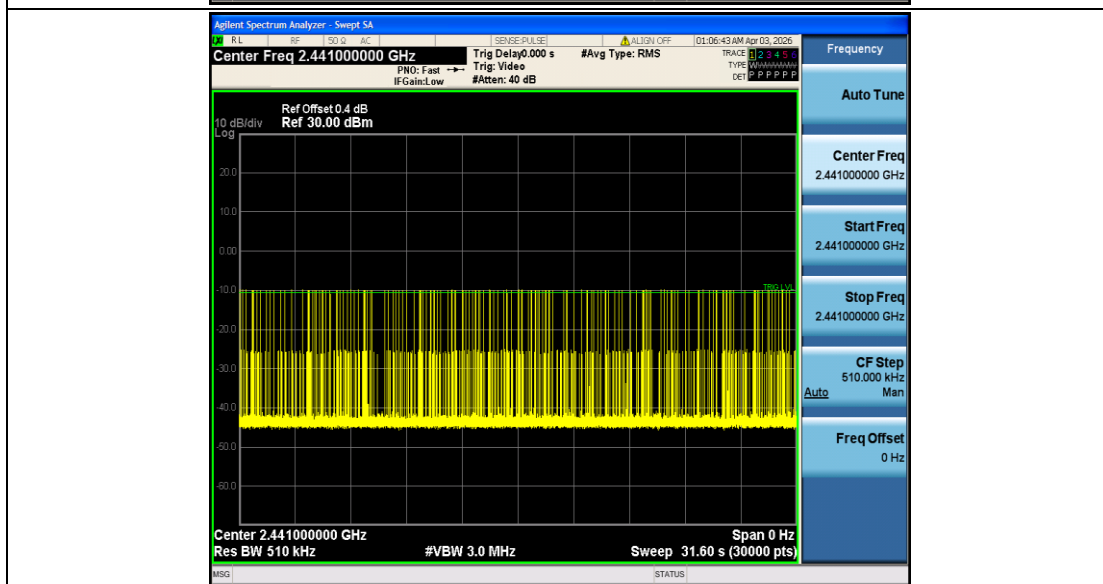
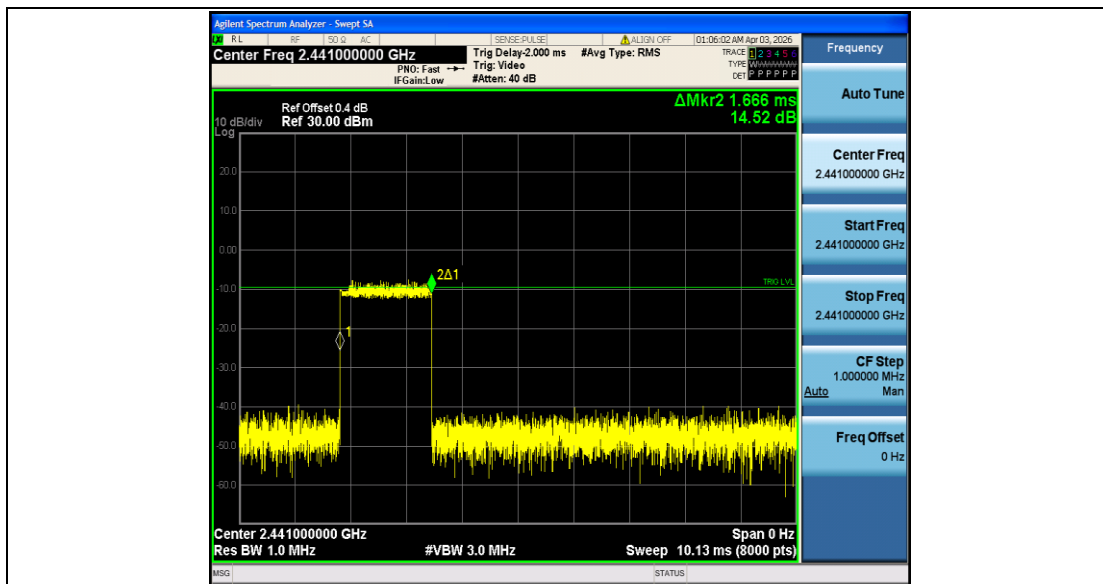




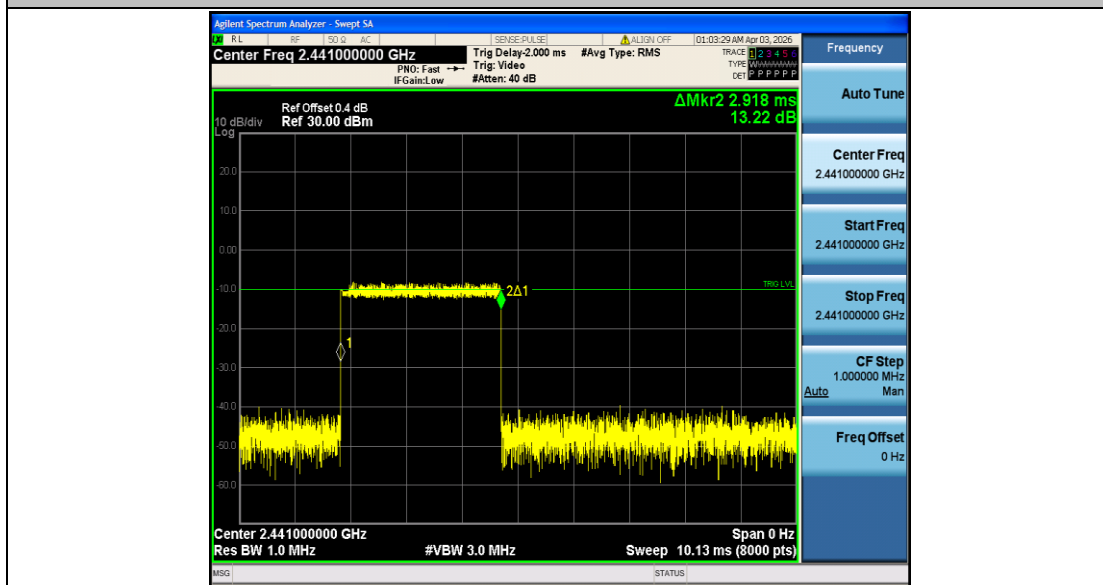
3DH1_Ant1_Hop

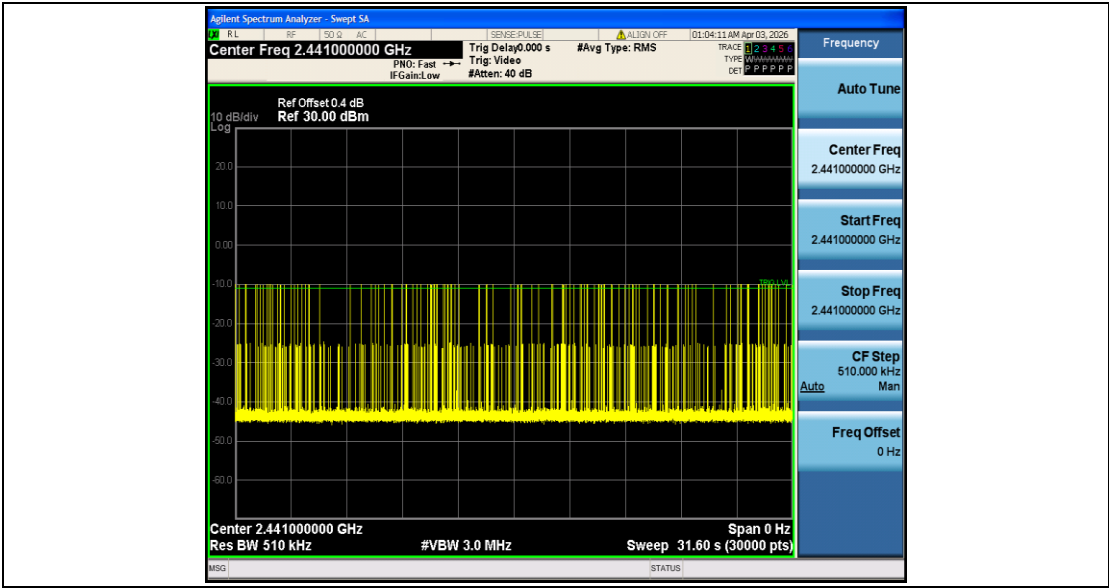


3DH3_Ant1_Hop



3DH5_Ant1_Hop



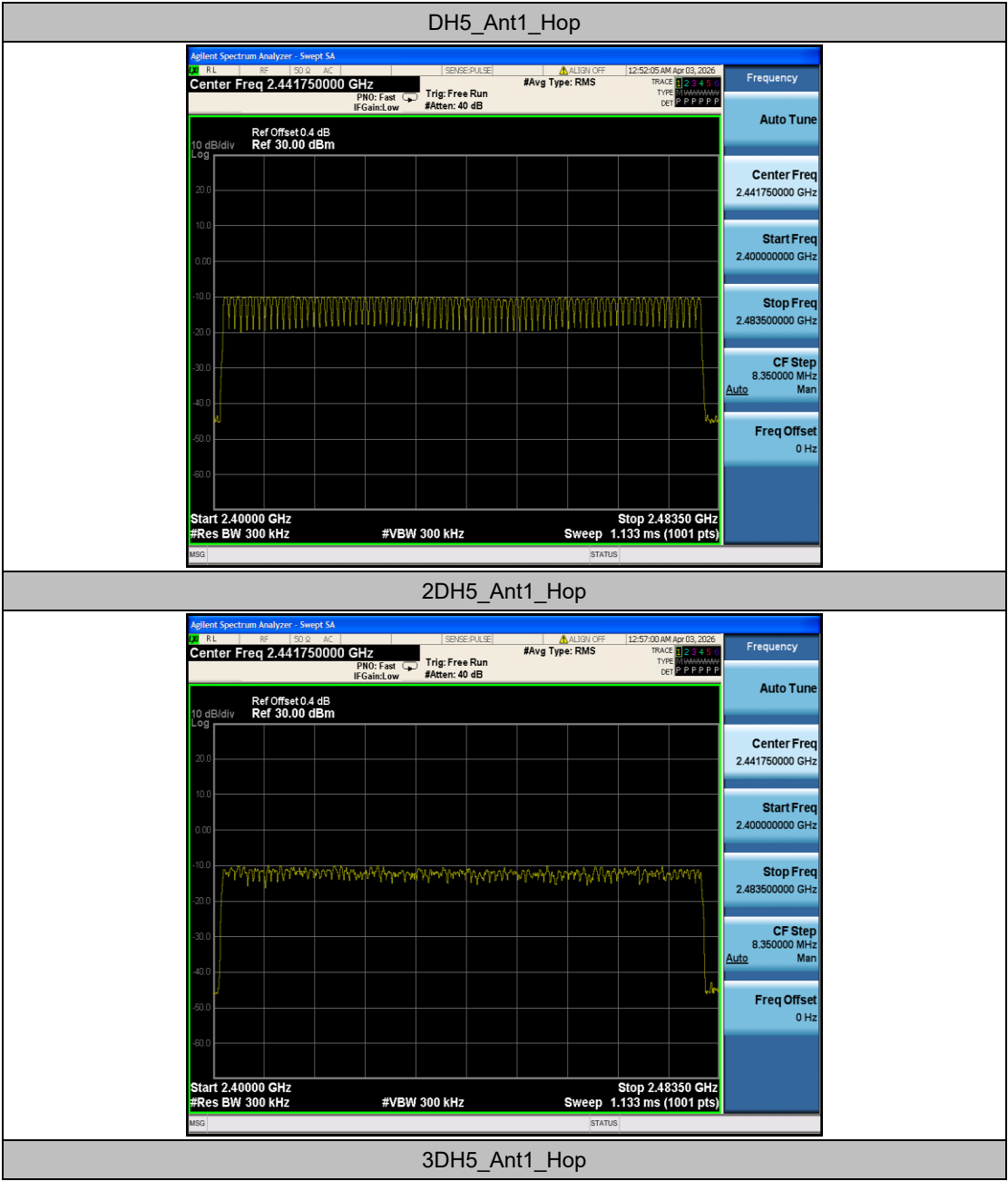


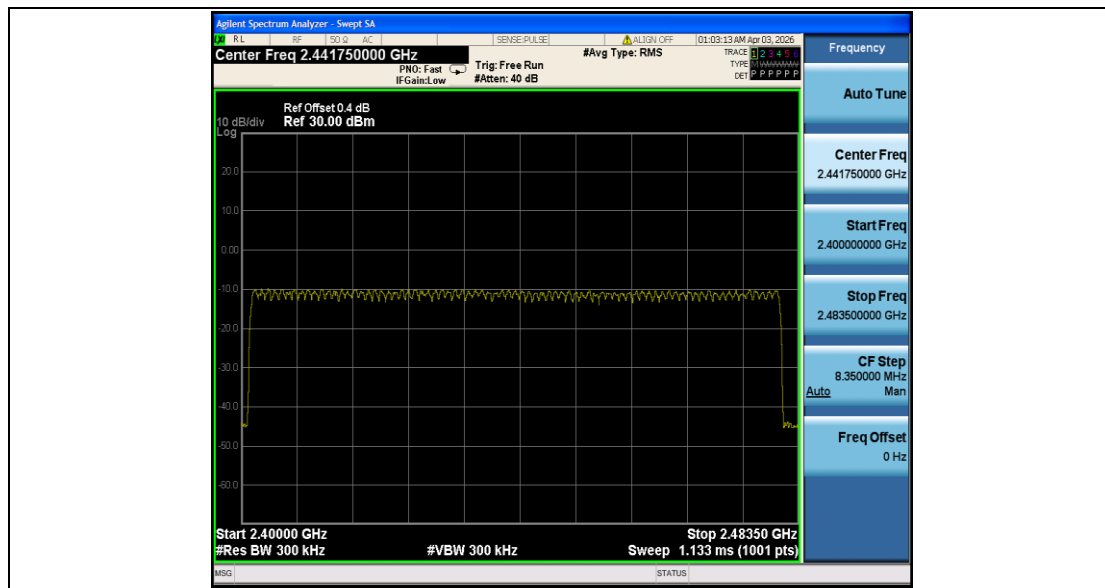
Appendix F: Number of hopping channels

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



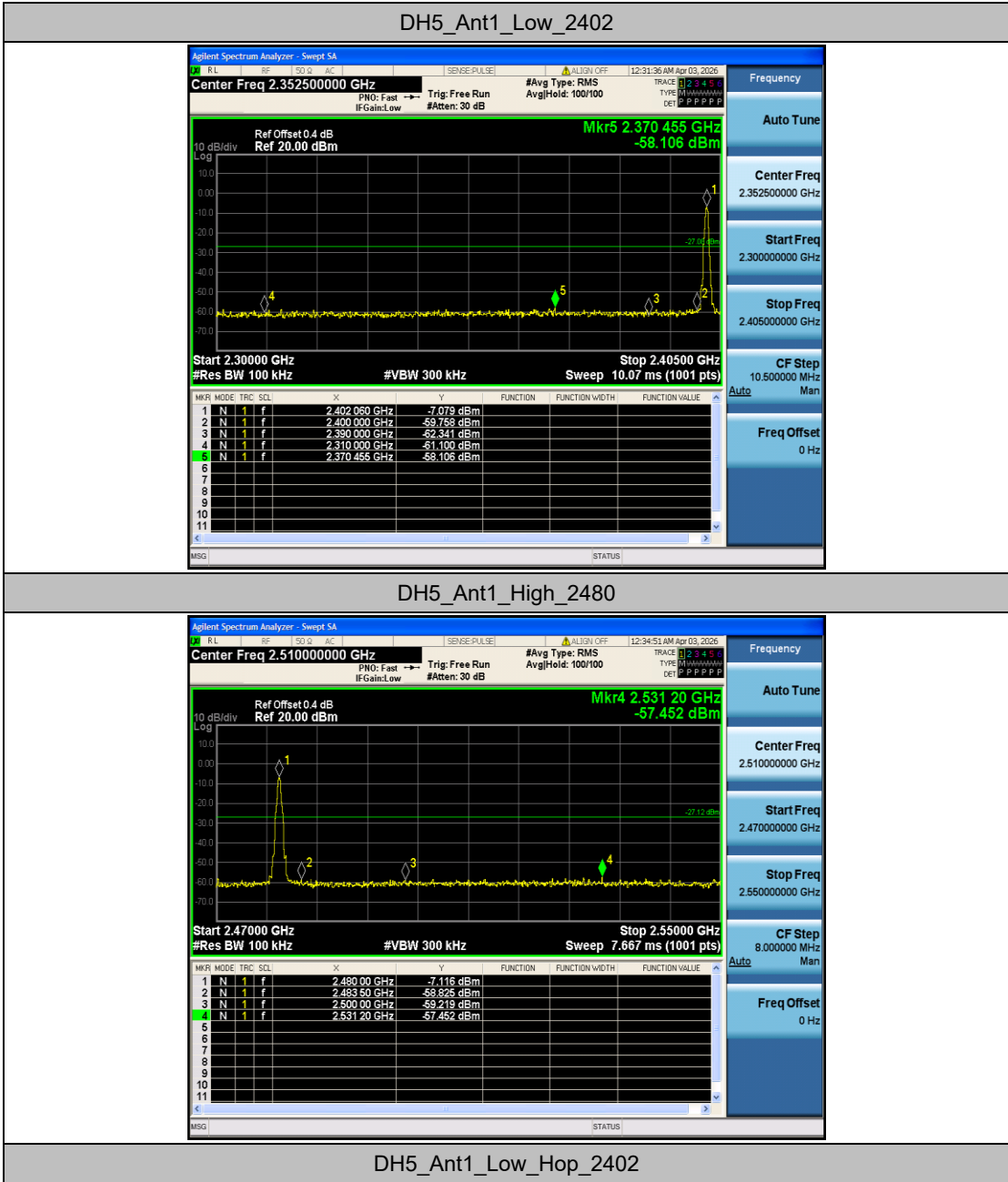


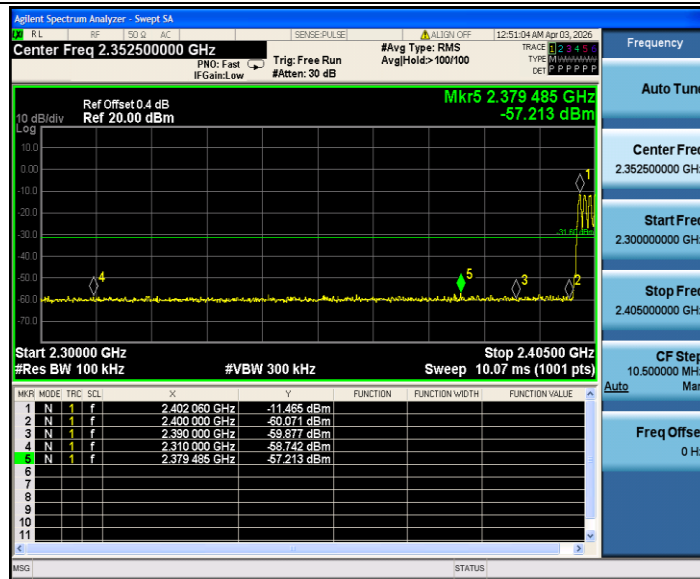
Appendix G: Band edge measurements

Test Result

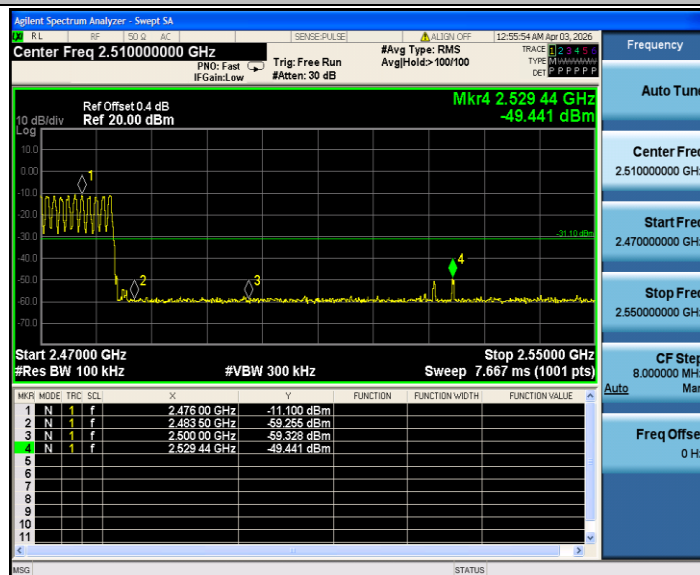
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-7.08	-58.11	≤-27.08	PASS
		High	2480	-7.12	-57.45	≤-27.12	PASS
		Low	Hop_2402	-11.60	-57.21	≤-31.6	PASS
		High	Hop_2480	-11.10	-49.44	≤-31.1	PASS
2DH5	Ant1	Low	2402	-10.96	-58.4	≤-30.96	PASS
		High	2480	-13.00	-57.63	≤-33	PASS
		Low	Hop_2402	-12.05	-57.53	≤-32.05	PASS
		High	Hop_2480	-13.65	-56.93	≤-33.65	PASS
3DH5	Ant1	Low	2402	-10.83	-58.15	≤-30.83	PASS
		High	2480	-11.06	-57.63	≤-31.06	PASS
		Low	Hop_2402	-10.00	-57.74	≤-30	PASS
		High	Hop_2480	-13.07	-57.35	≤-33.07	PASS

Test Graphs

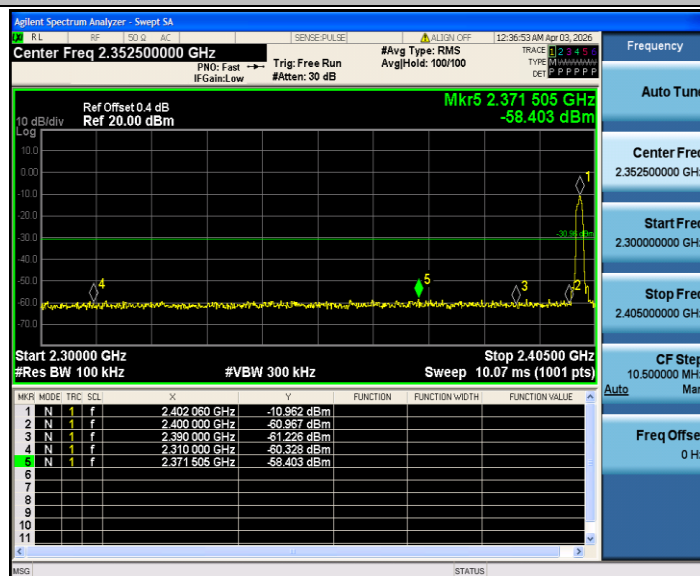




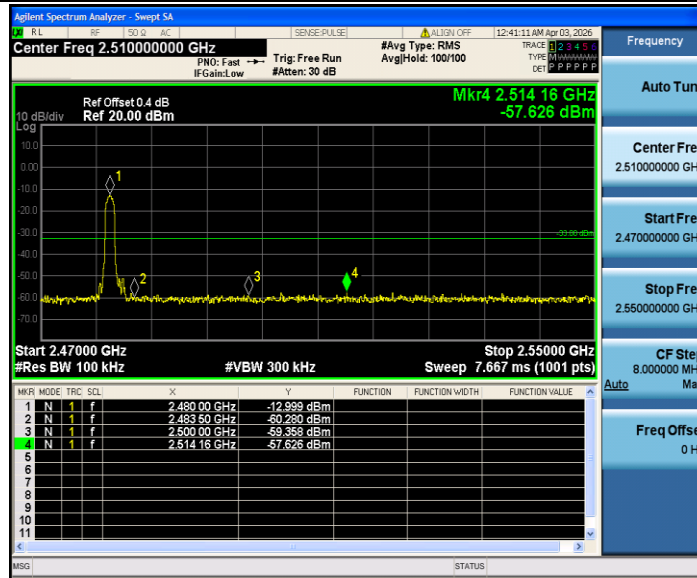
DH5_Ant1_High_Hop_2480



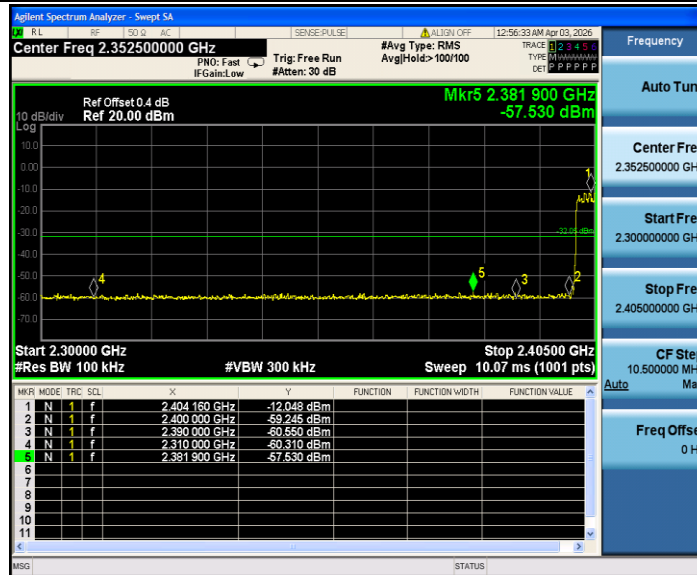
2DH5_Ant1_Low_2402



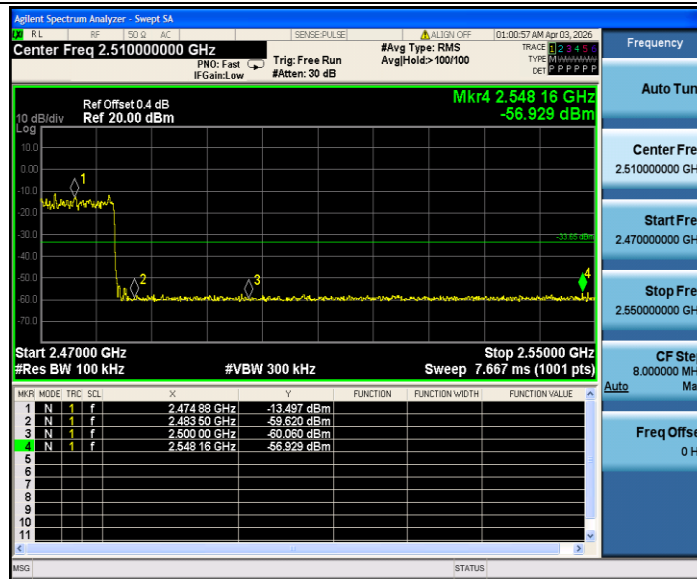
2DH5_Ant1_High_2480



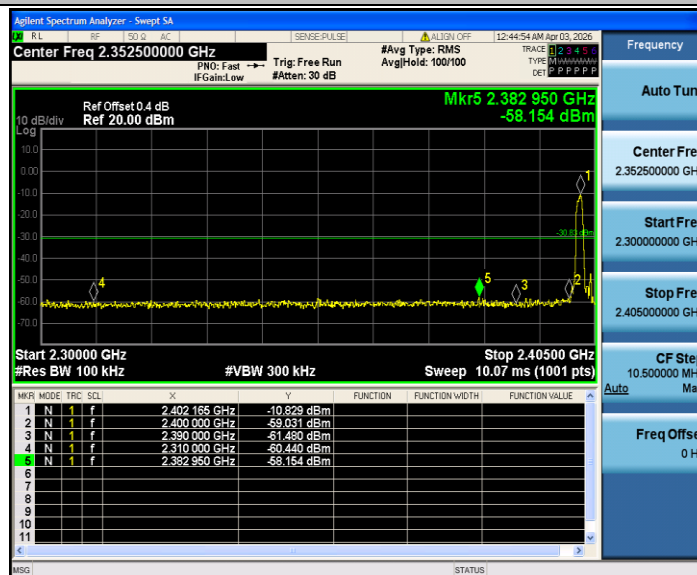
2DH5_Ant1_Low_Hop_2402



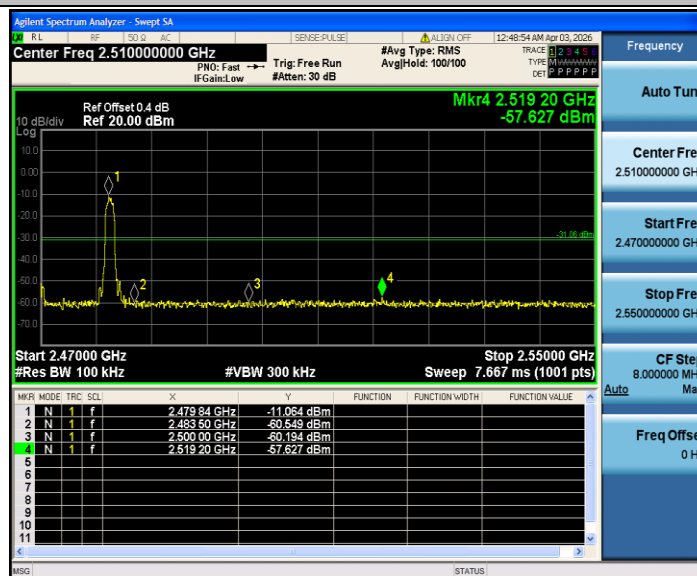
2DH5_Ant1_High_Hop_2480



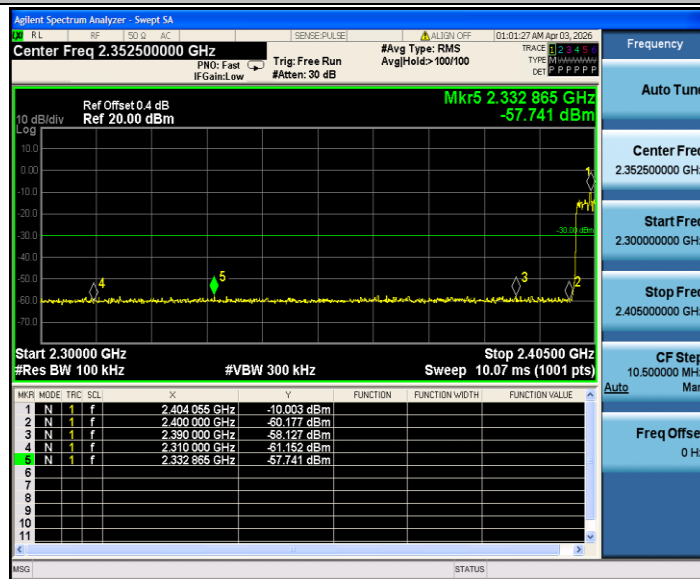
3DH5_Ant1_Low_2402



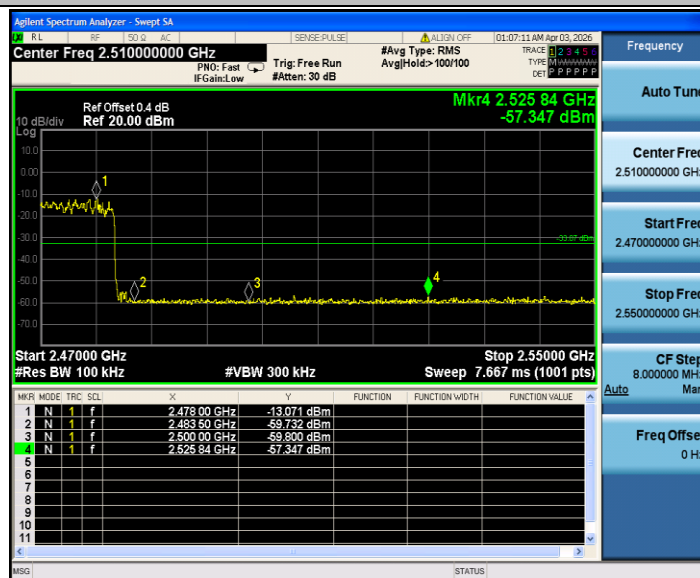
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

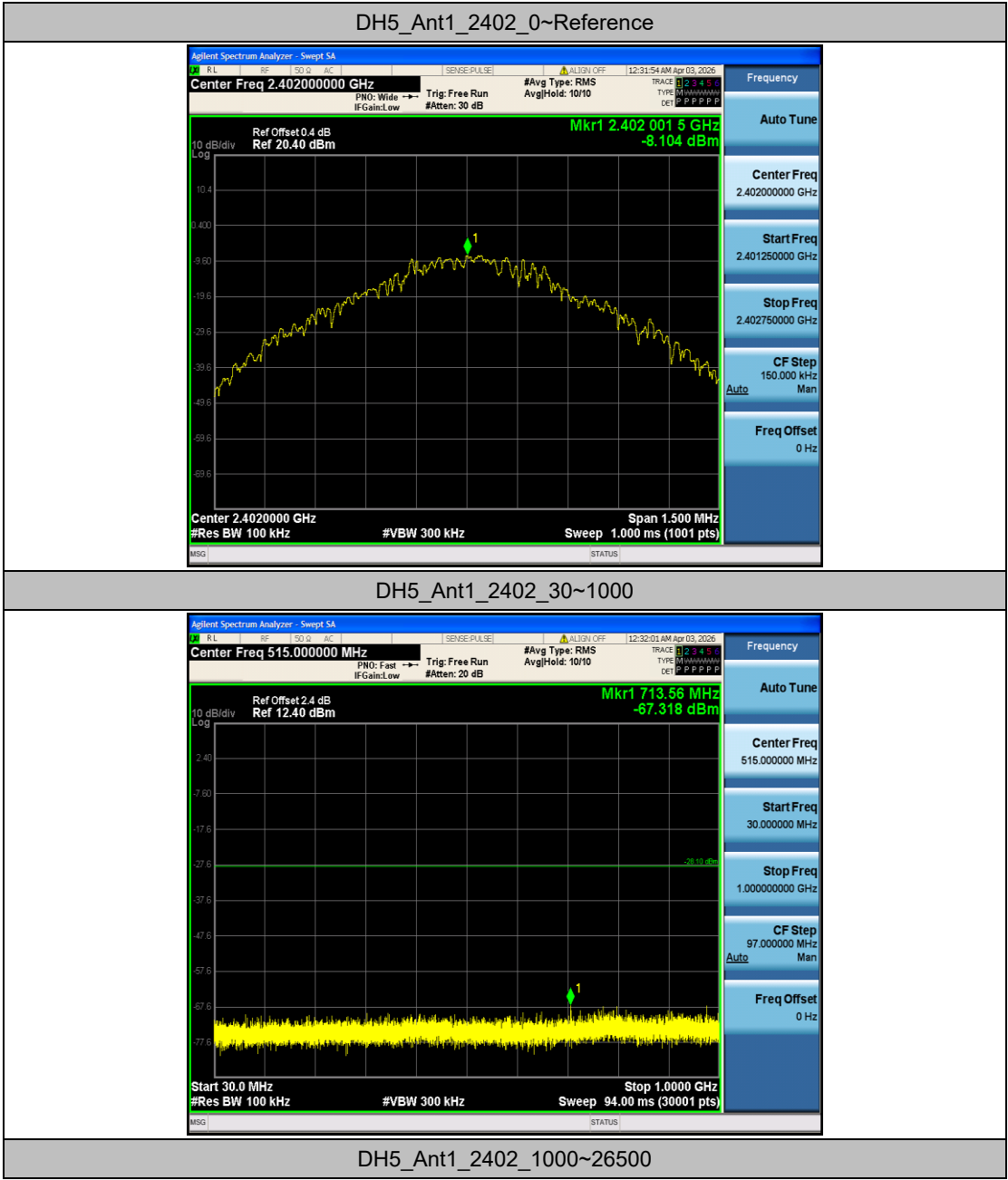


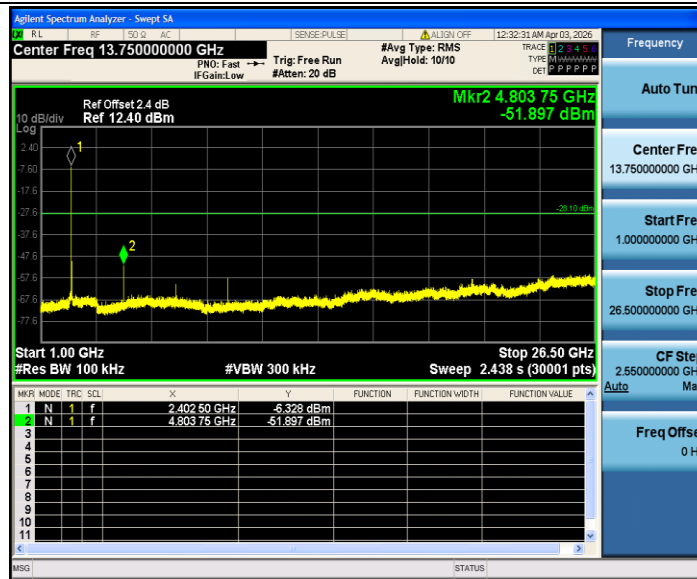
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-8.10	-8.10	---	PASS
			30~1000	-8.10	-67.32	≤-28.1	PASS
			1000~26500	-8.10	-51.9	≤-28.1	PASS
		2441	Reference	-7.21	-7.21	---	PASS
			30~1000	-7.21	-67.65	≤-27.21	PASS
			1000~26500	-7.21	-54.4	≤-27.21	PASS
		2480	Reference	-8.16	-8.16	---	PASS
			30~1000	-8.16	-66.78	≤-28.16	PASS
			1000~26500	-8.16	-53.74	≤-28.16	PASS
2DH5	Ant1	2402	Reference	-12.01	-12.01	---	PASS
			30~1000	-12.01	-67.67	≤-32.01	PASS
			1000~26500	-12.01	-56.34	≤-32.01	PASS
		2441	Reference	-13.14	-13.14	---	PASS
			30~1000	-13.14	-59.67	≤-33.14	PASS
			1000~26500	-13.14	-49.42	≤-33.14	PASS
		2480	Reference	-11.71	-11.71	---	PASS
			30~1000	-11.71	-67.76	≤-31.71	PASS
			1000~26500	-11.71	-55.69	≤-31.71	PASS
3DH5	Ant1	2402	Reference	-12.89	-12.89	---	PASS
			30~1000	-12.89	-67.86	≤-32.89	PASS
			1000~26500	-12.89	-43.83	≤-32.89	PASS
		2441	Reference	-12.95	-12.95	---	PASS
			30~1000	-12.95	-68.27	≤-32.95	PASS
			1000~26500	-12.95	-48.7	≤-32.95	PASS
		2480	Reference	-12.58	-12.58	---	PASS
			30~1000	-12.58	-67.8	≤-32.58	PASS
			1000~26500	-12.58	-55.47	≤-32.58	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

