

FCC Appendix RF Test Data for BR-EDR

FCC ID : 2BXKS-SUPER16

Company : Dongguan Geekfly Electronic Technology Co., Ltd.

EUT : TWS Headphones

Model Number : Super 16

Report No. : CTA26070701701

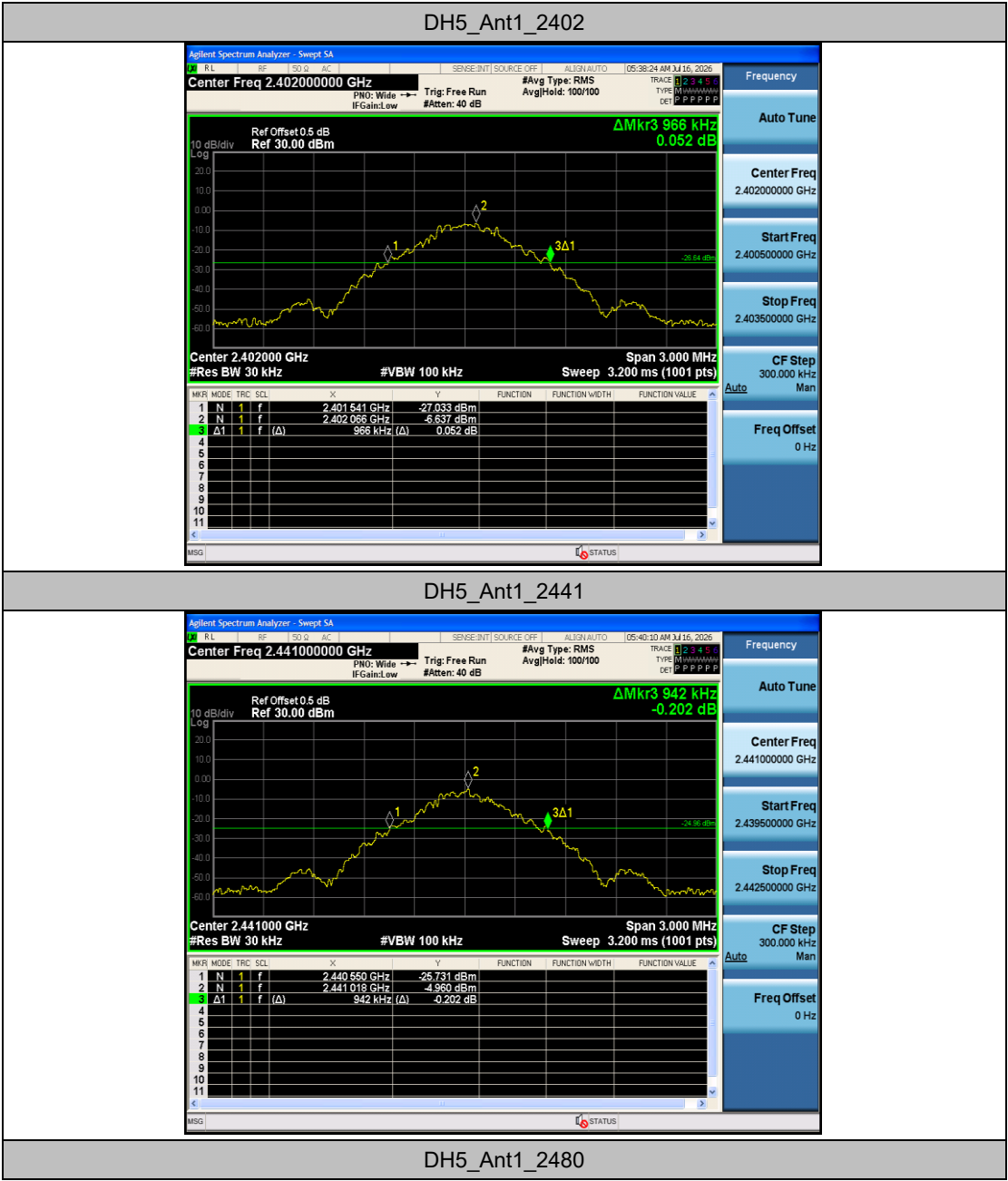
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.966	2401.541	2402.507	---	---
		2441	0.942	2440.550	2441.492	---	---
		2480	0.951	2479.547	2480.498	---	---
2DH5	Ant1	2402	1.317	2401.352	2402.669	---	---
		2441	1.347	2440.334	2441.681	---	---
		2480	1.326	2479.346	2480.672	---	---
3DH5	Ant1	2402	1.320	2401.355	2402.675	---	---
		2441	1.284	2440.367	2441.651	---	---
		2480	1.320	2479.355	2480.675	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



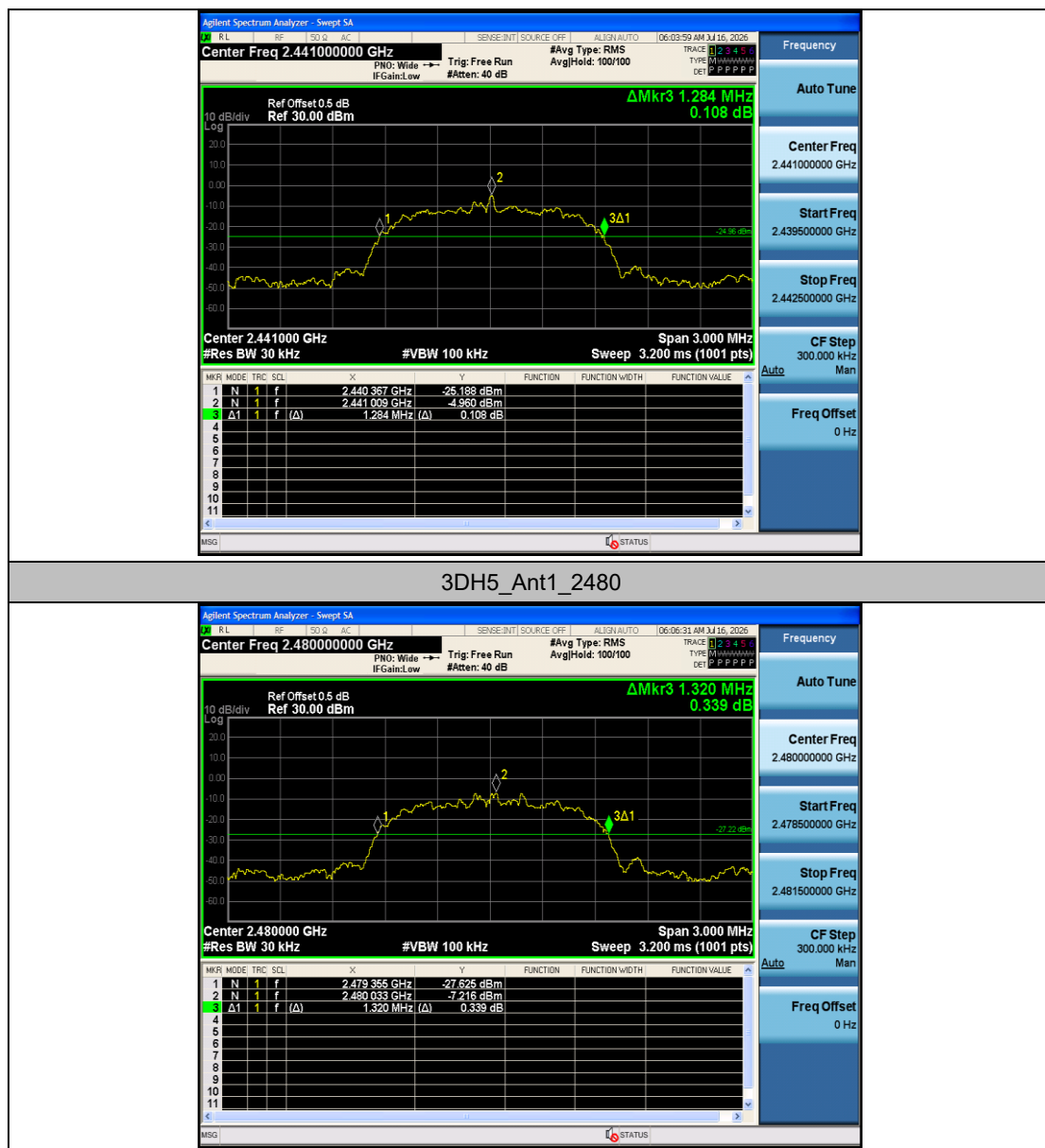
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

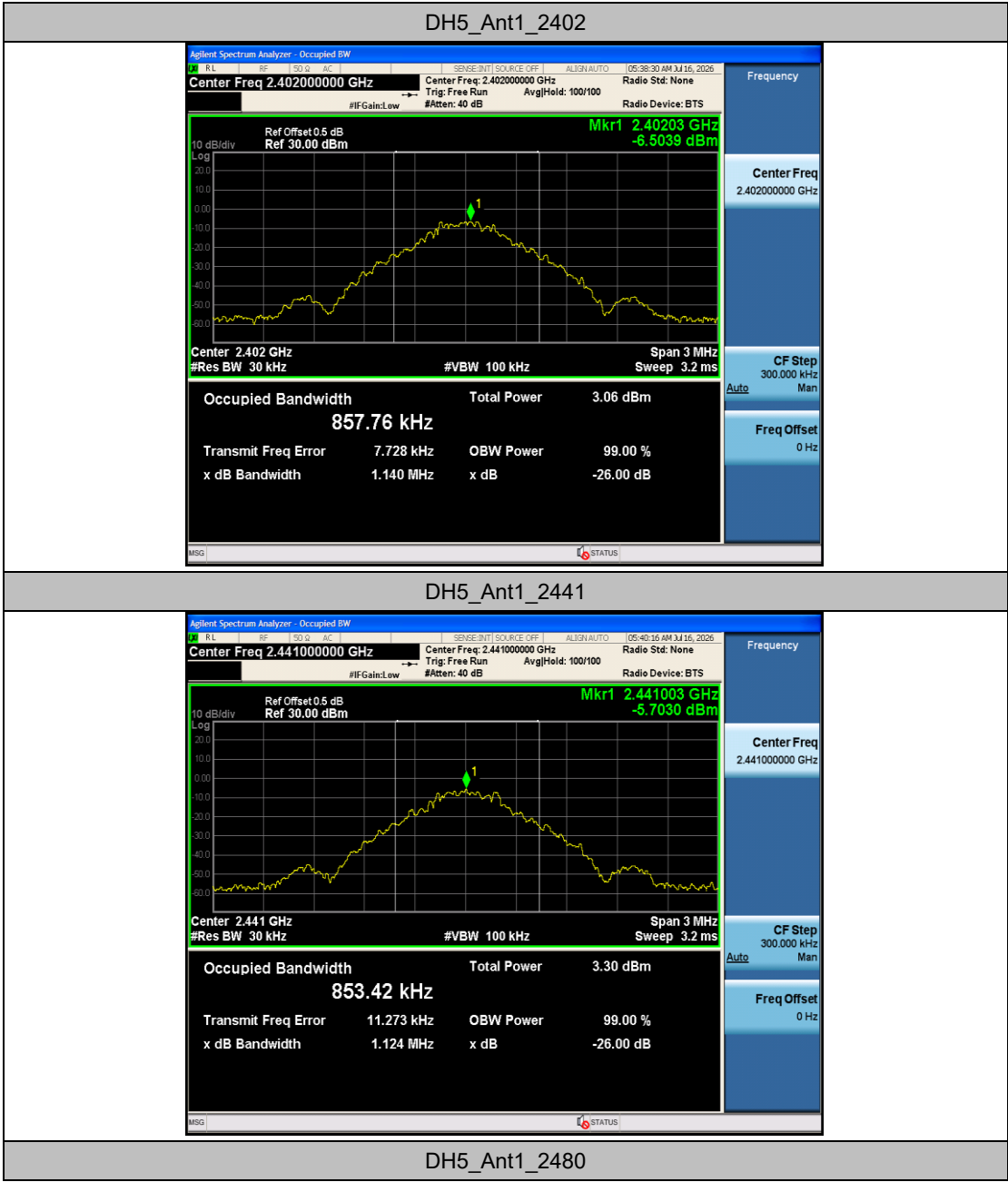


Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85776	2401.5789	2402.4366	---	---
		2441	0.85342	2440.5846	2441.4380	---	---
		2480	0.86930	2479.5737	2480.4430	---	---
2DH5	Ant1	2402	1.1821	2401.4188	2402.6009	---	---
		2441	1.1855	2440.4160	2441.6015	---	---
		2480	1.2027	2479.4124	2480.6151	---	---
3DH5	Ant1	2402	1.1889	2401.4178	2402.6067	---	---
		2441	1.1902	2440.4182	2441.6084	---	---
		2480	1.1896	2479.4179	2480.6075	---	---

Test Graphs





2DH5_Ant1_2402



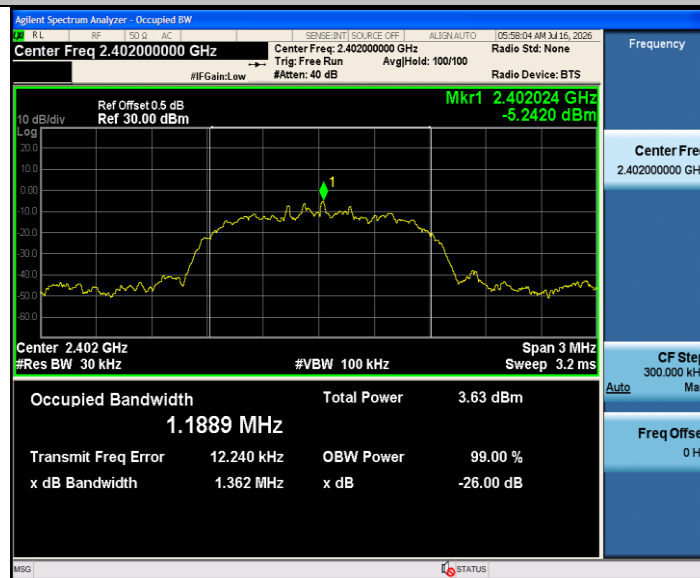
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Left:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.31	≤20.97	PASS
		2441	-3.35	≤20.97	PASS
		2480	-3.55	≤20.97	PASS
2DH5	Ant1	2402	-0.62	≤20.97	PASS
		2441	-0.68	≤20.97	PASS
		2480	-0.91	≤20.97	PASS
3DH5	Ant1	2402	-0.29	≤20.97	PASS
		2441	-0.34	≤20.97	PASS
		2480	-0.47	≤20.97	PASS

Right:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.26	≤20.97	PASS
		2441	-3.58	≤20.97	PASS
		2480	-3.32	≤20.97	PASS
2DH5	Ant1	2402	-0.78	≤20.97	PASS
		2441	-0.52	≤20.97	PASS
		2480	-0.49	≤20.97	PASS
3DH5	Ant1	2402	-0.58	≤20.97	PASS
		2441	-0.71	≤20.97	PASS
		2480	-0.64	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.982	≥ 0.966	PASS
2DH5	Ant1	Hop	1.01	≥ 0.888	PASS
3DH5	Ant1	Hop	0.97	≥ 0.874	PASS

Test Graphs



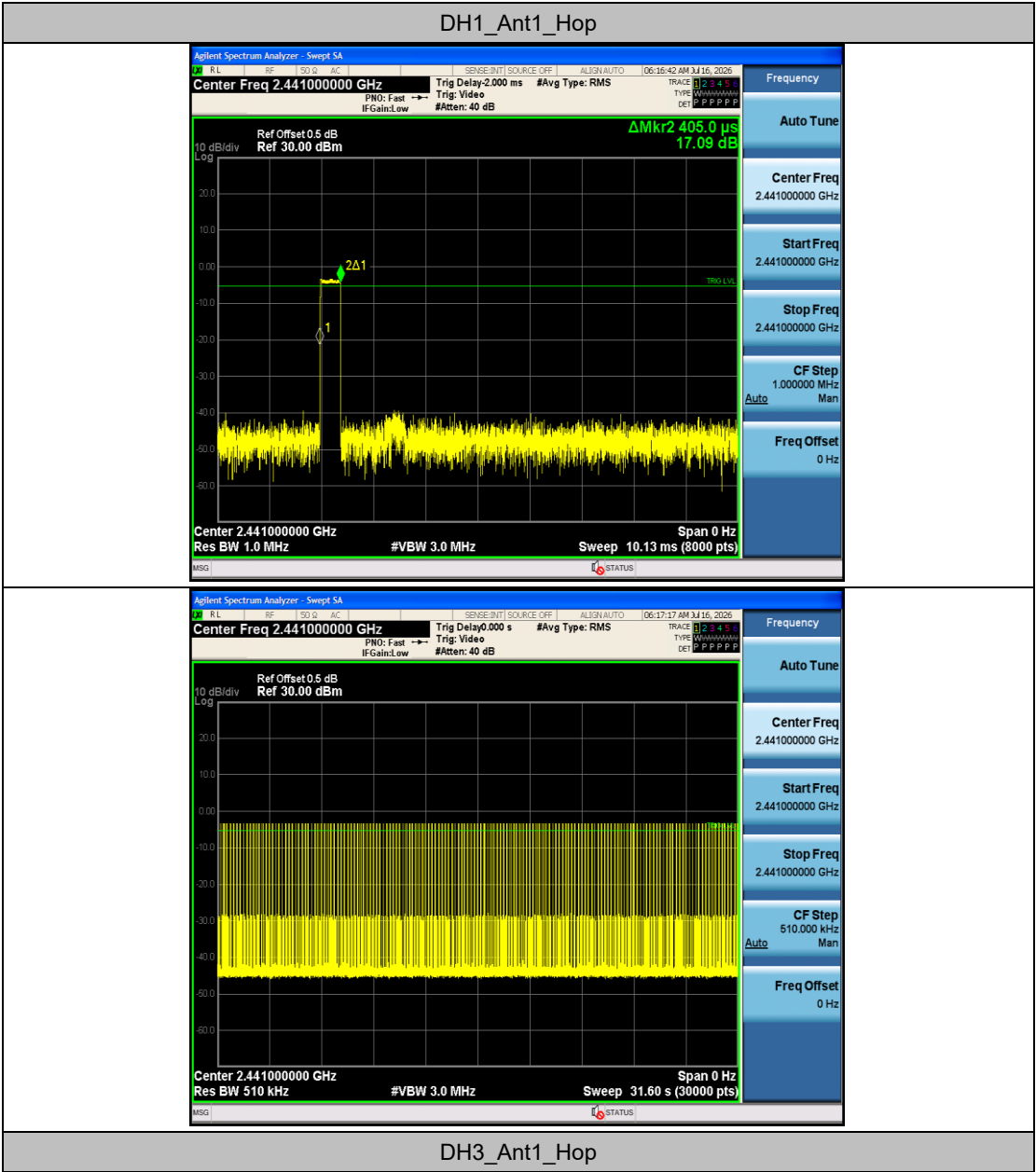


Appendix E: Time of occupancy

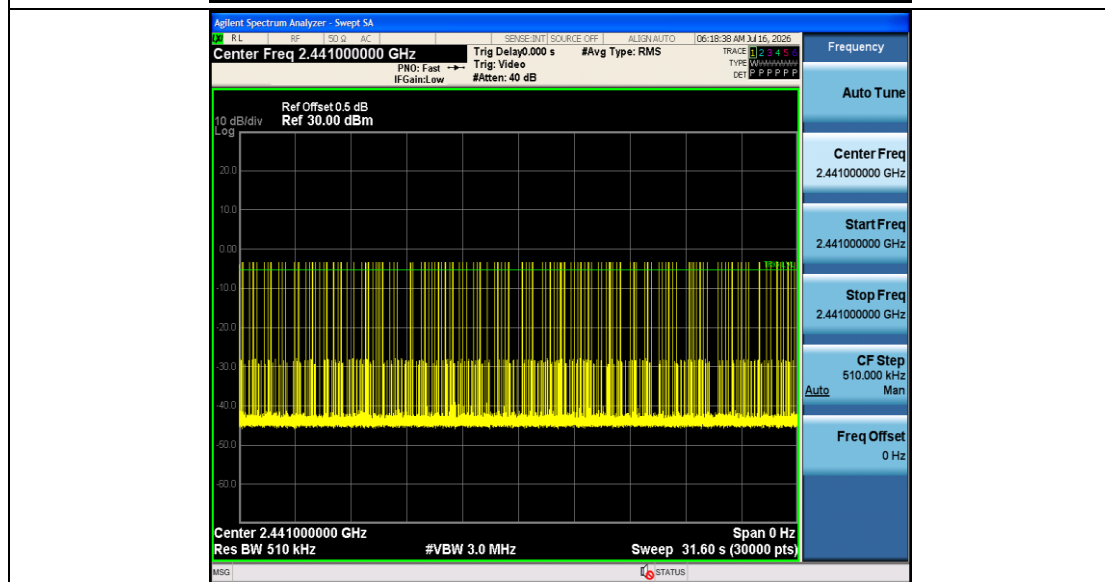
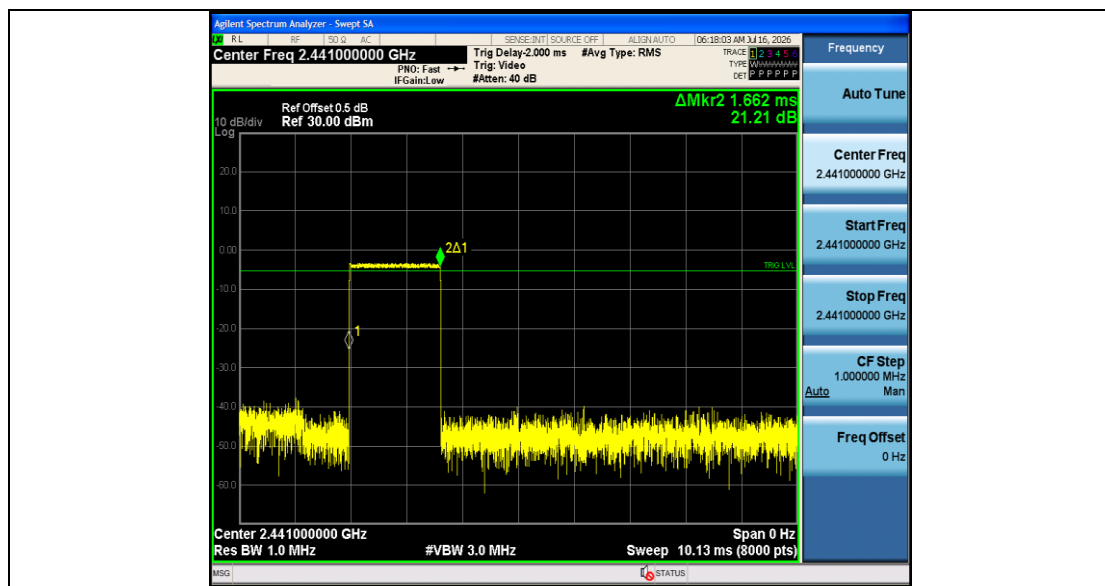
Test Result

Test Mode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	320	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	161	0.268	≤0.4	PASS
DH5	Ant1	Hop	2.910	113	0.329	≤0.4	PASS
2DH1	Ant1	Hop	0.415	316	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.667	159	0.265	≤0.4	PASS
2DH5	Ant1	Hop	2.916	102	0.297	≤0.4	PASS
3DH1	Ant1	Hop	0.415	316	0.131	≤0.4	PASS
3DH3	Ant1	Hop	1.666	165	0.275	≤0.4	PASS
3DH5	Ant1	Hop	2.917	113	0.33	≤0.4	PASS

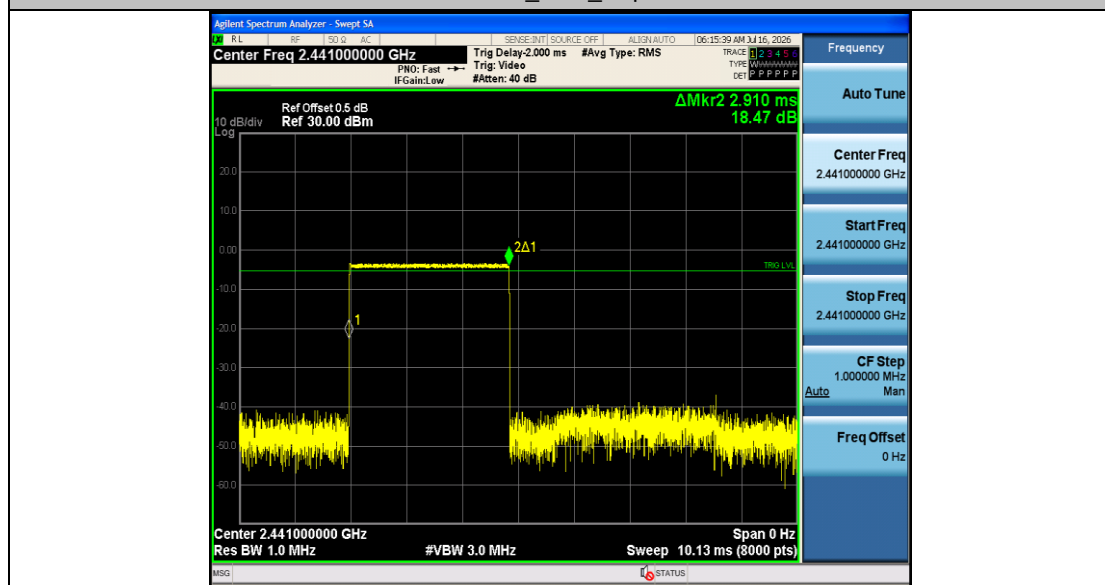
Test Graphs

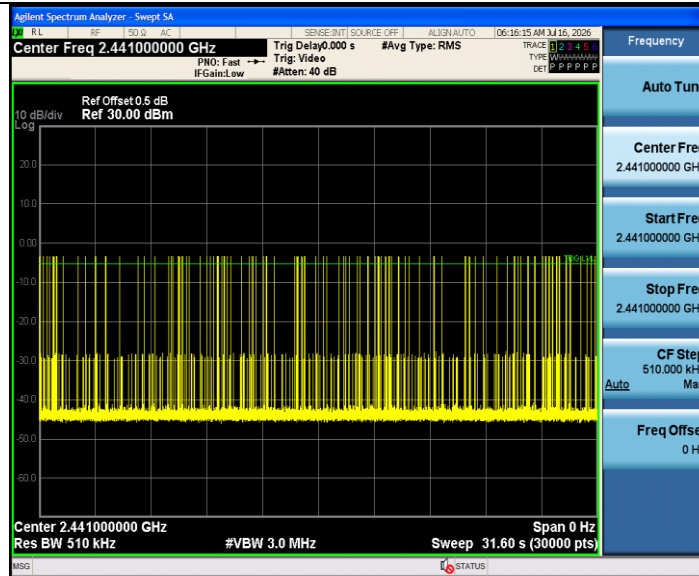


DH3_Ant1_Hop

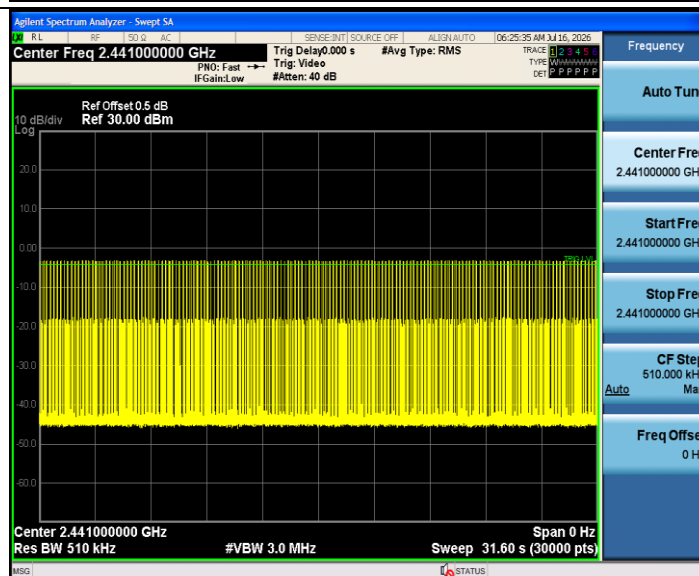
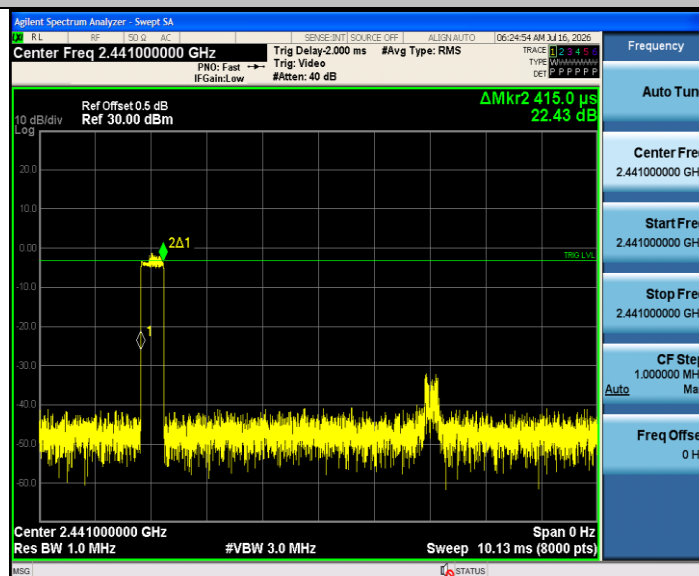


DH5_Ant1_Hop

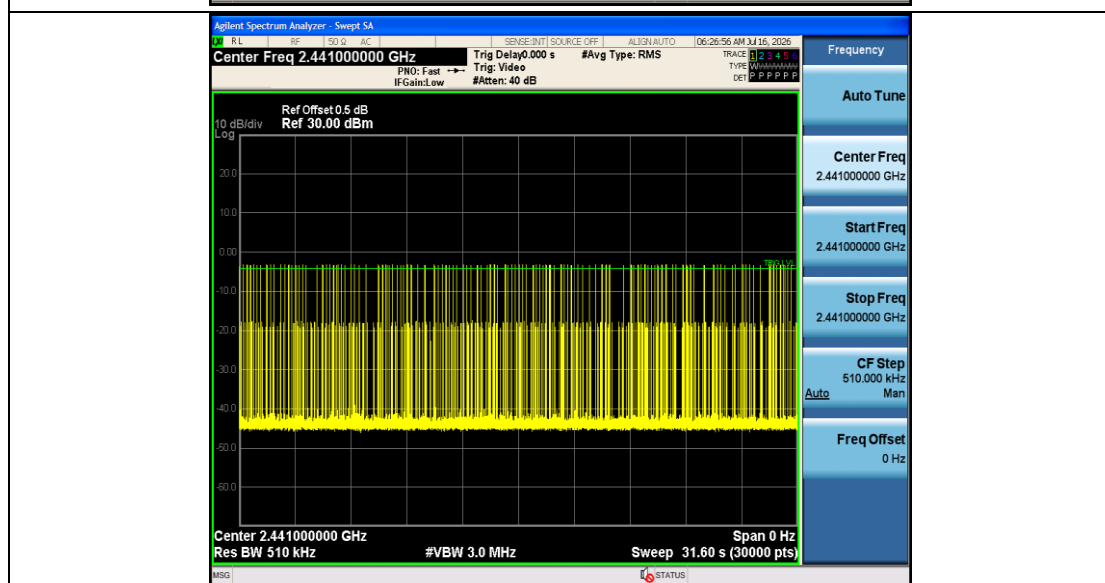
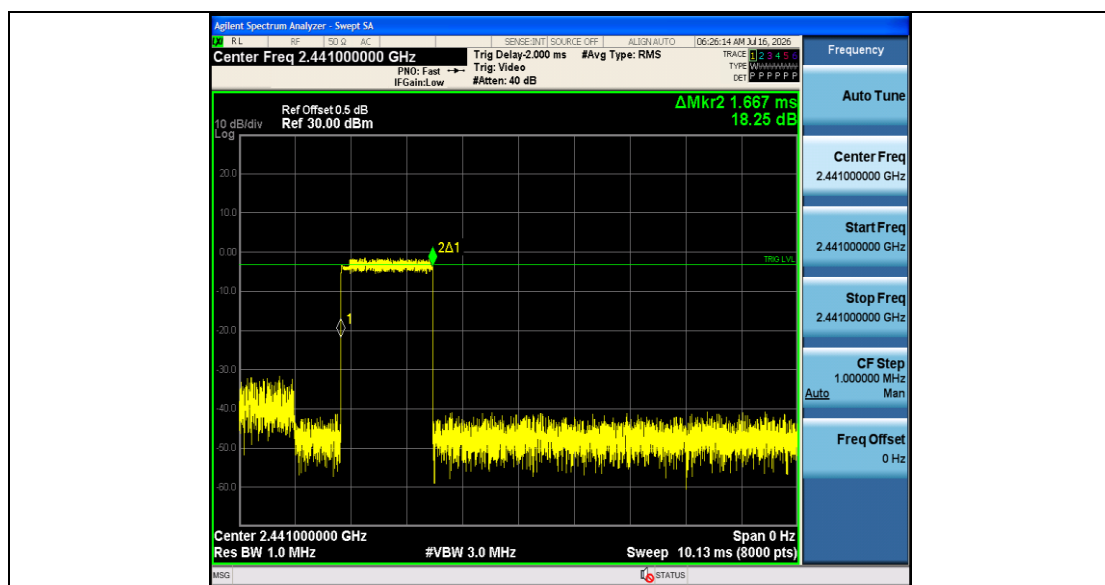




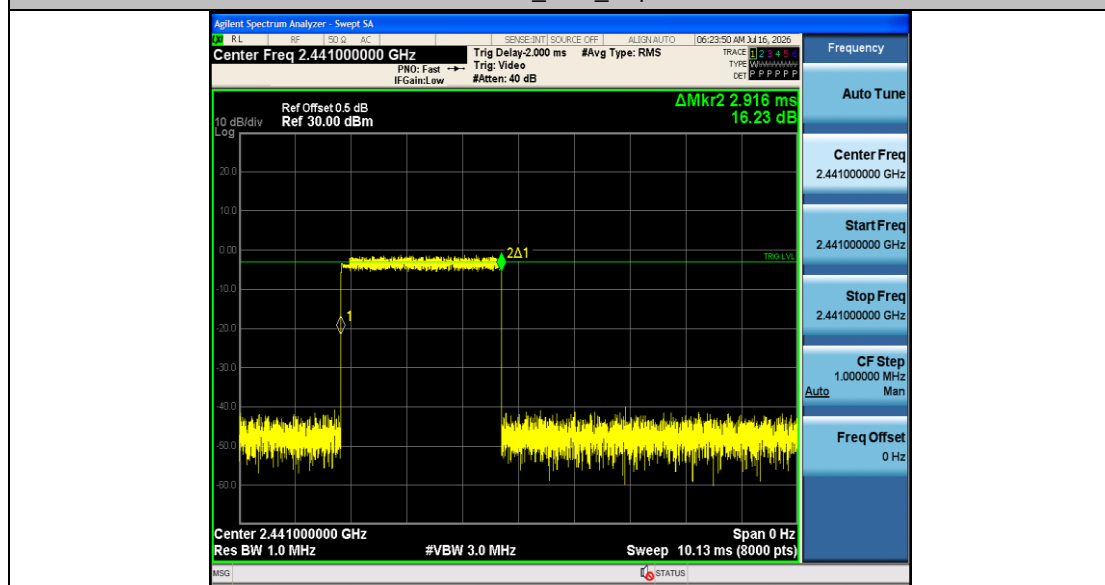
2DH1_Ant1_Hop

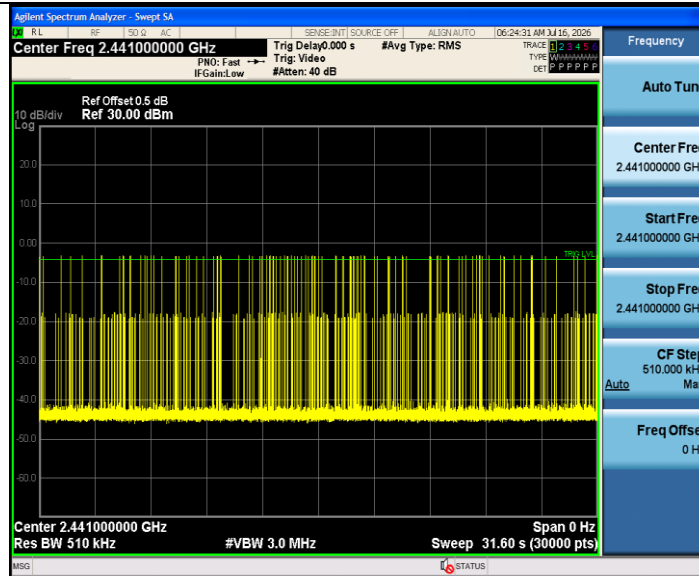


2DH3_Ant1_Hop

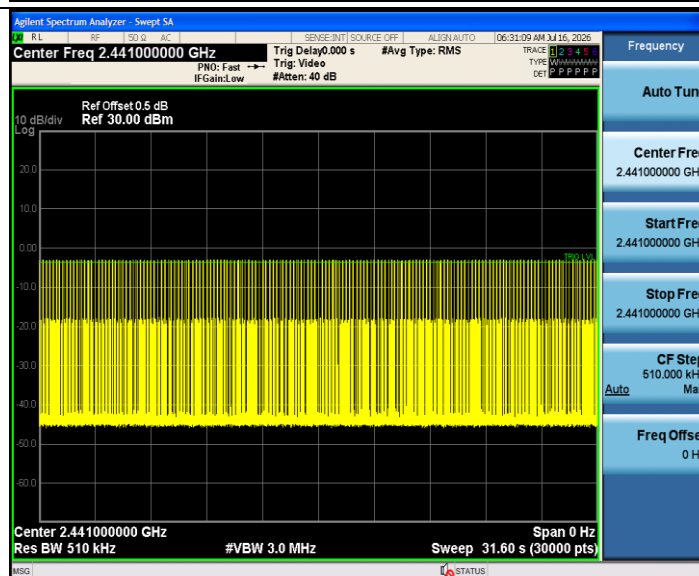
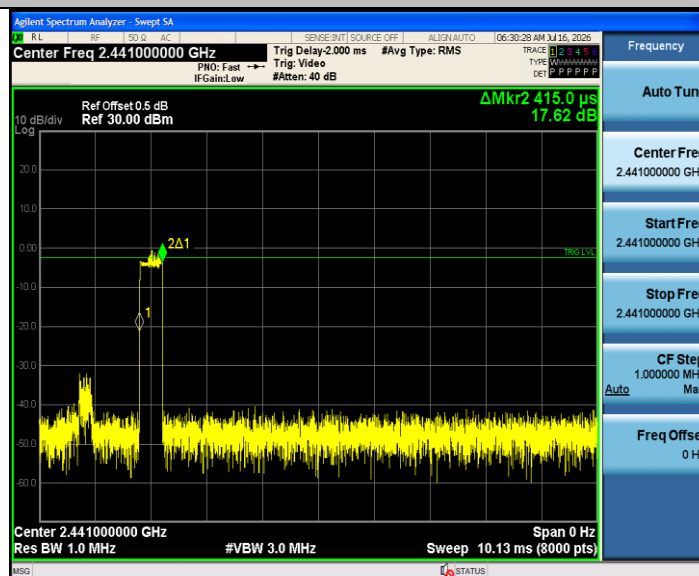


2DH5_Ant1_Hop

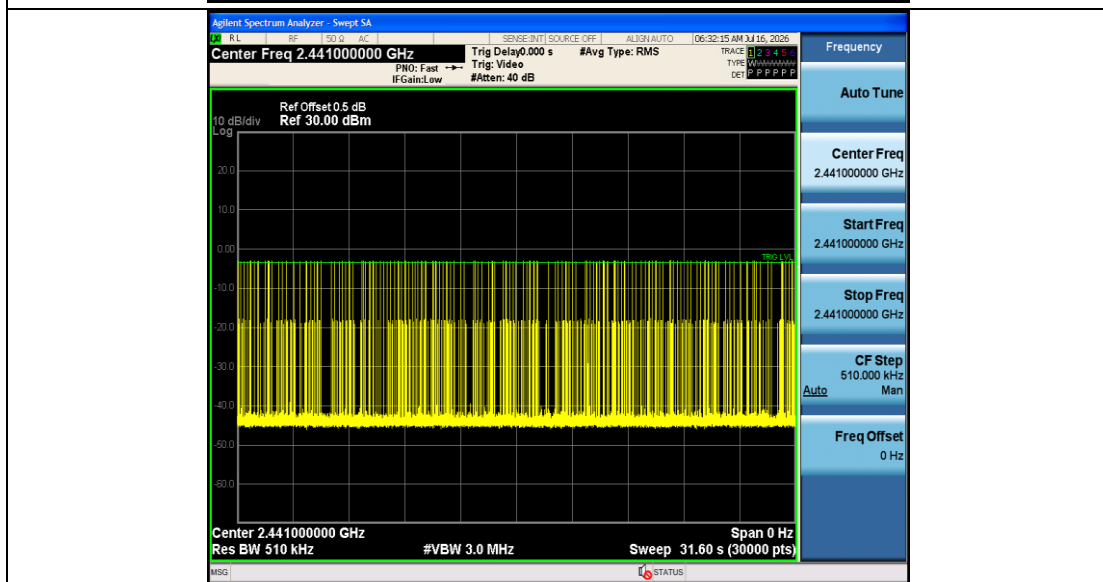
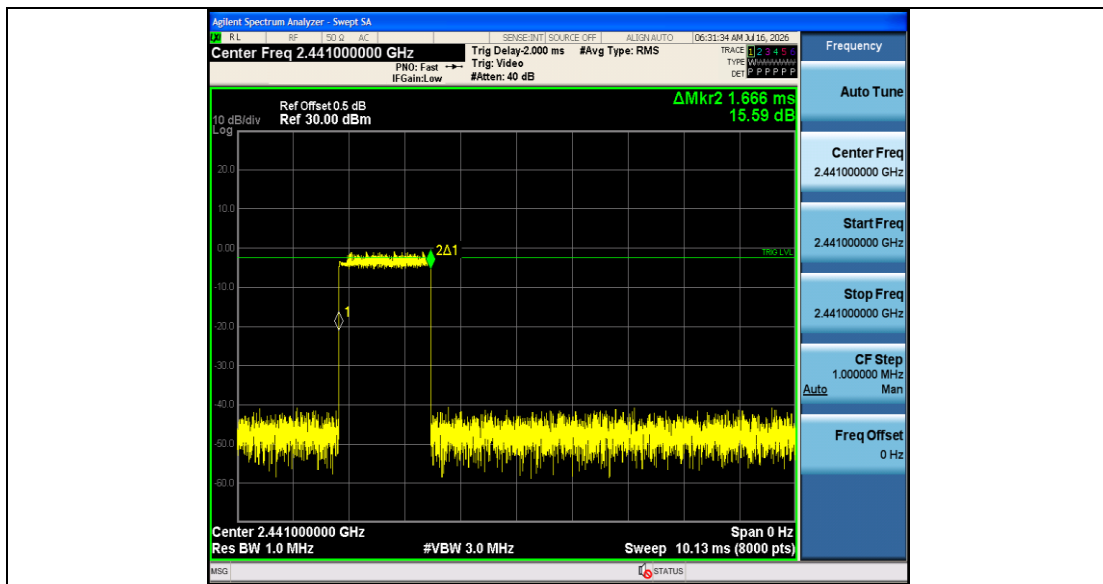




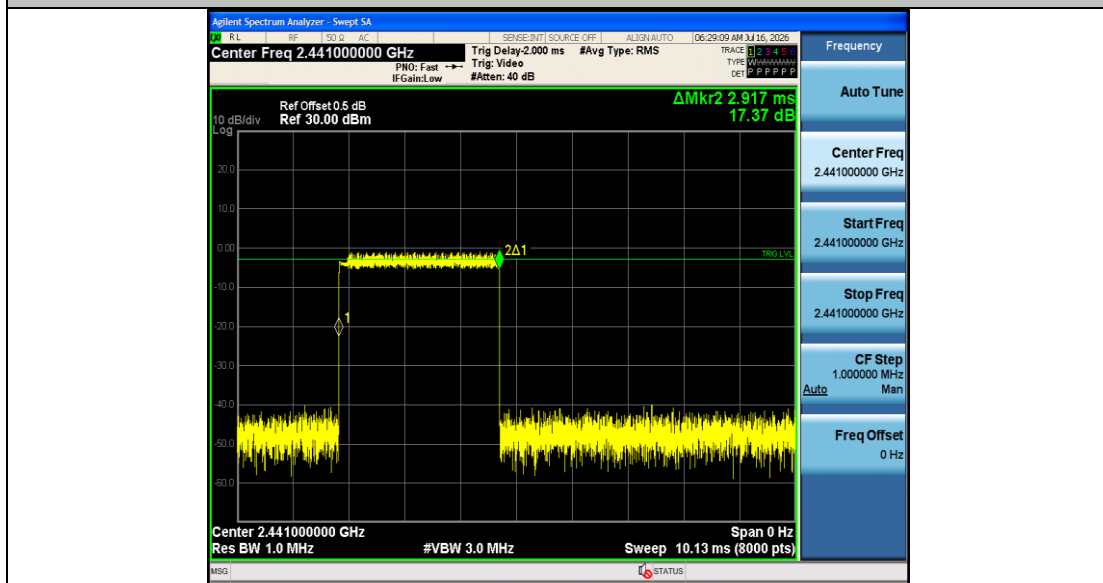
3DH1_Ant1_Hop

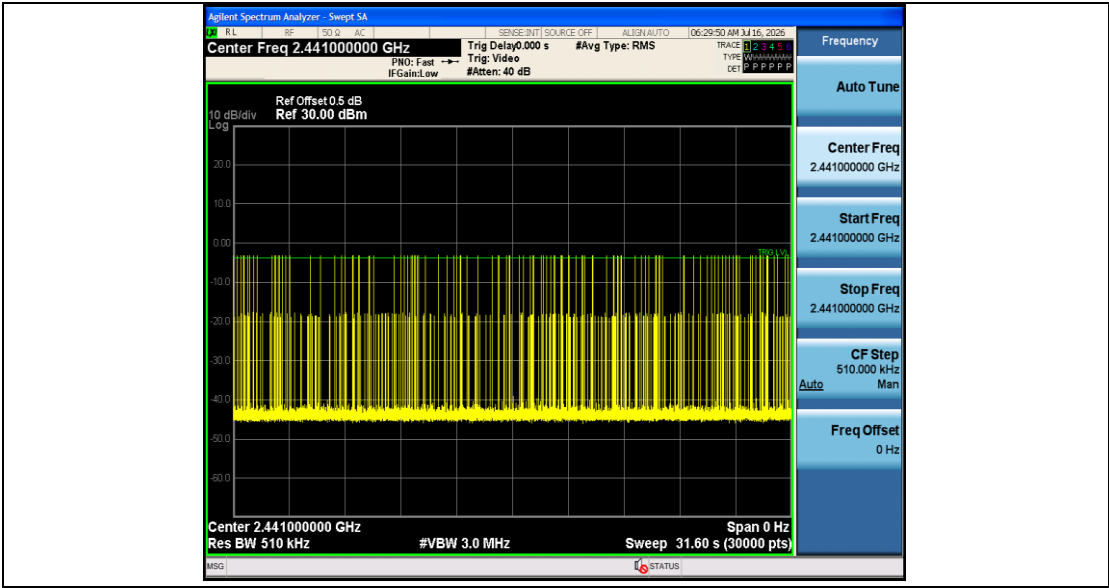


3DH3_Ant1_Hop



3DH5_Ant1_Hop



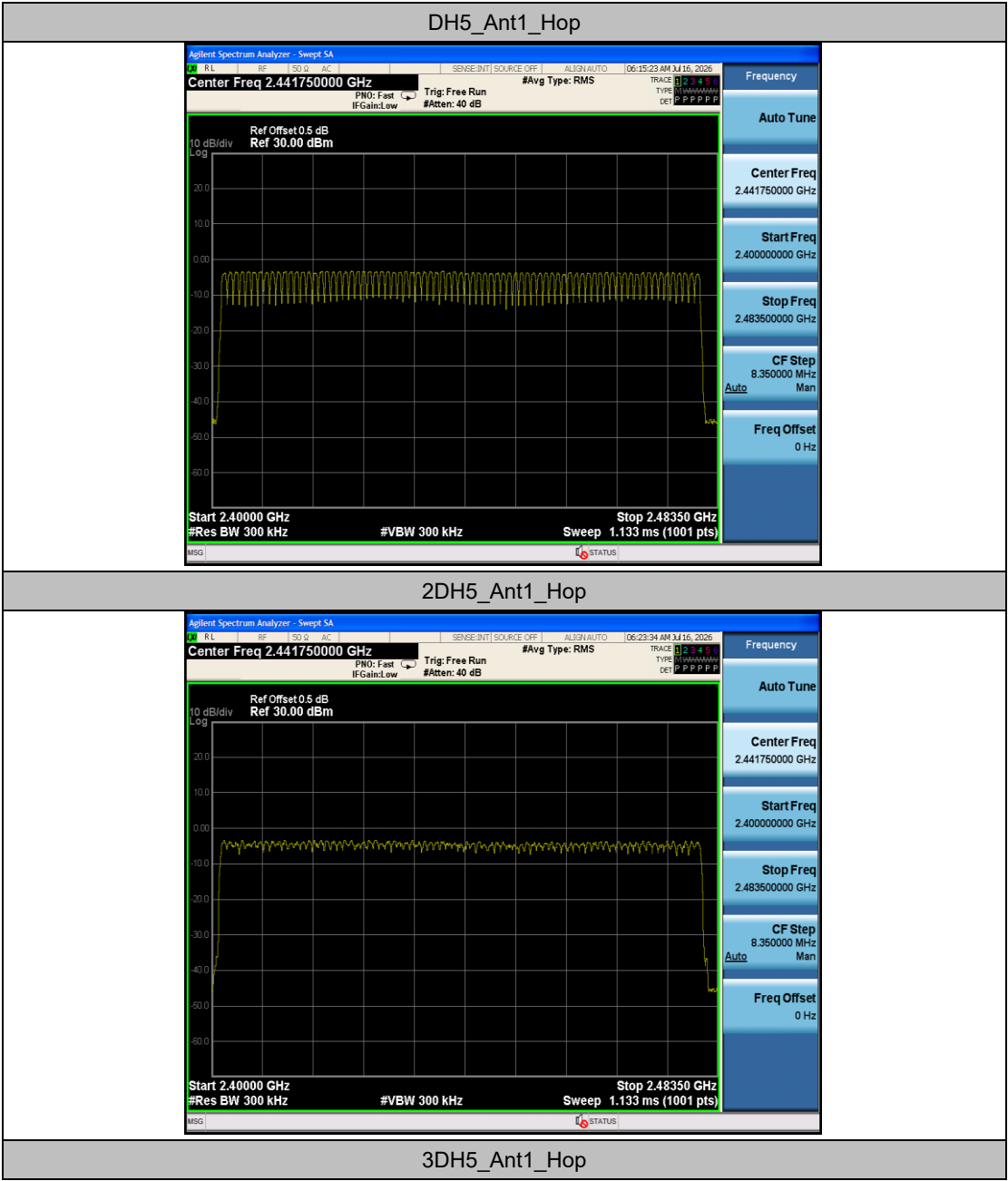


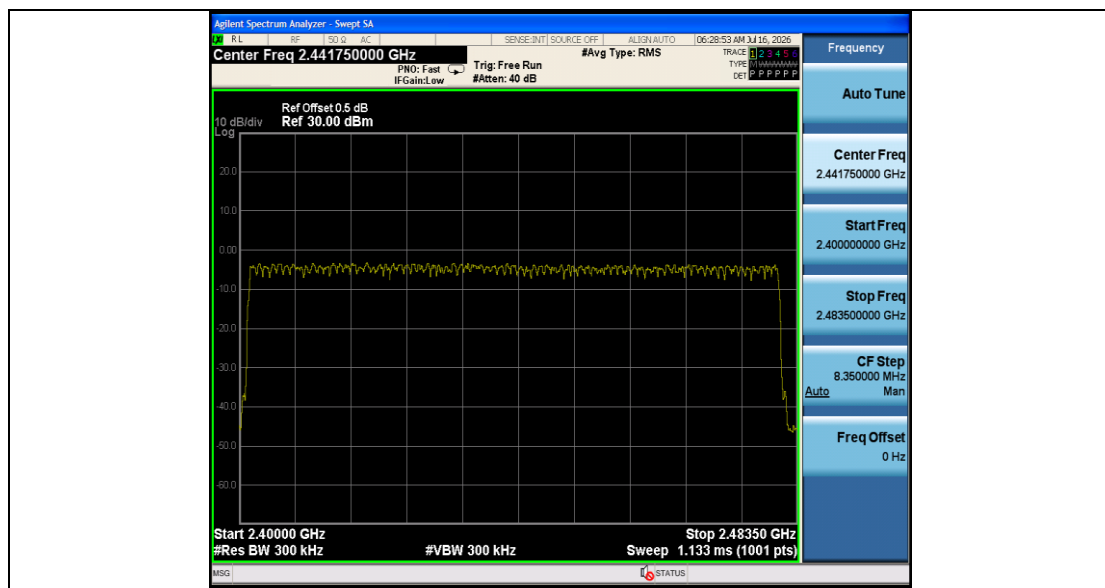
Appendix F: Number of hopping channels

Test Result

Test Mode	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



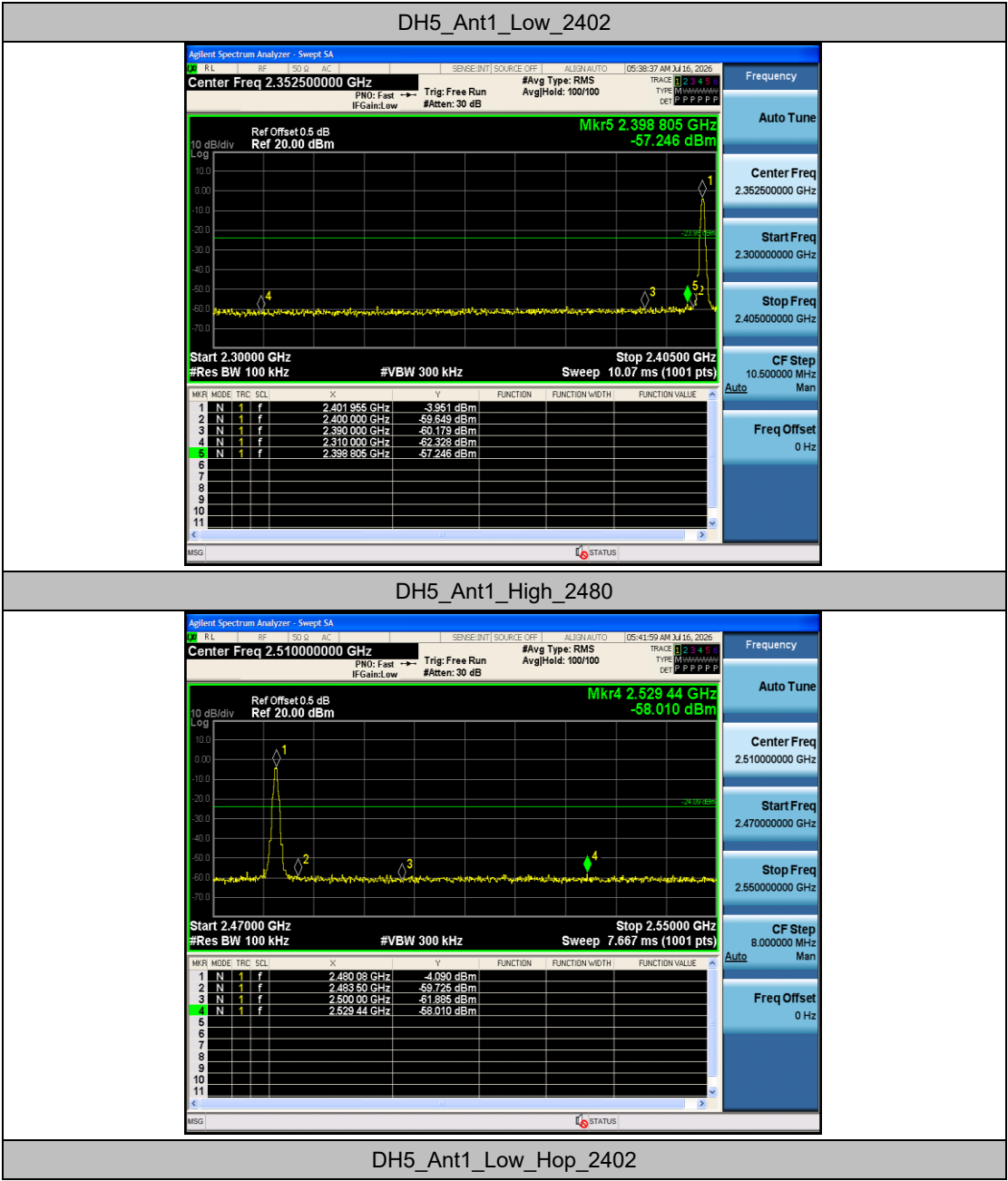


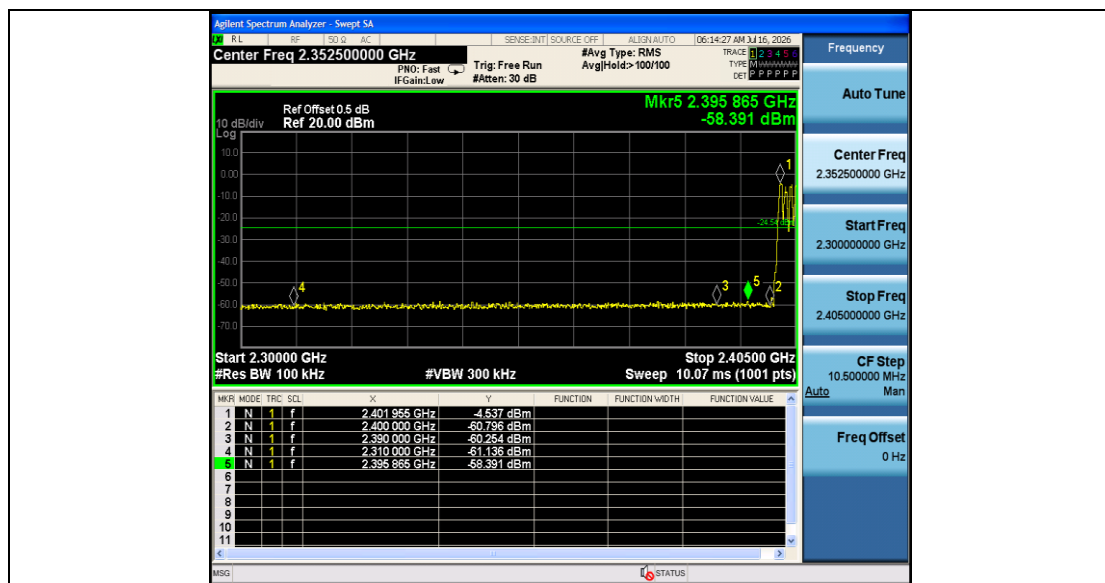
Appendix G: Band edge measurements

Test Result

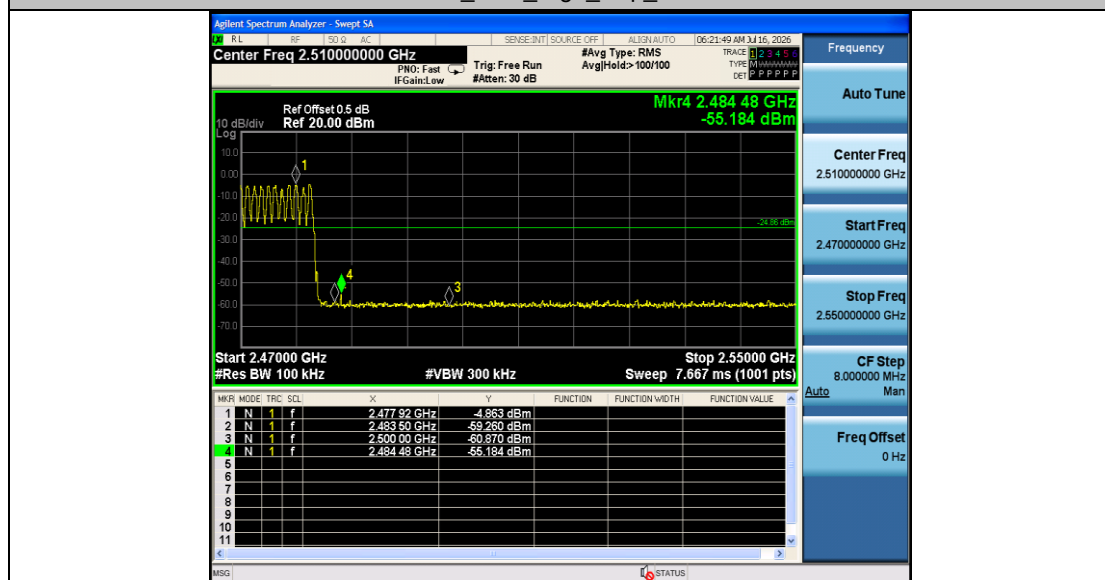
Test Mode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.95	-57.25	≤-23.95	PASS
		High	2480	-4.09	-58.01	≤-24.09	PASS
		Low	Hop_2402	-4.54	-58.39	≤-24.54	PASS
		High	Hop_2480	-4.86	-55.18	≤-24.86	PASS
2DH5	Ant1	Low	2402	-6.50	-58.1	≤-26.5	PASS
		High	2480	-4.83	-54.19	≤-24.83	PASS
		Low	Hop_2402	-5.83	-58.1	≤-25.83	PASS
		High	Hop_2480	-6.13	-57.17	≤-26.13	PASS
3DH5	Ant1	Low	2402	-4.67	-57.96	≤-24.67	PASS
		High	2480	-3.58	-57	≤-23.58	PASS
		Low	Hop_2402	-4.82	-57.99	≤-24.82	PASS
		High	Hop_2480	-5.07	-57.92	≤-25.07	PASS

Test Graphs

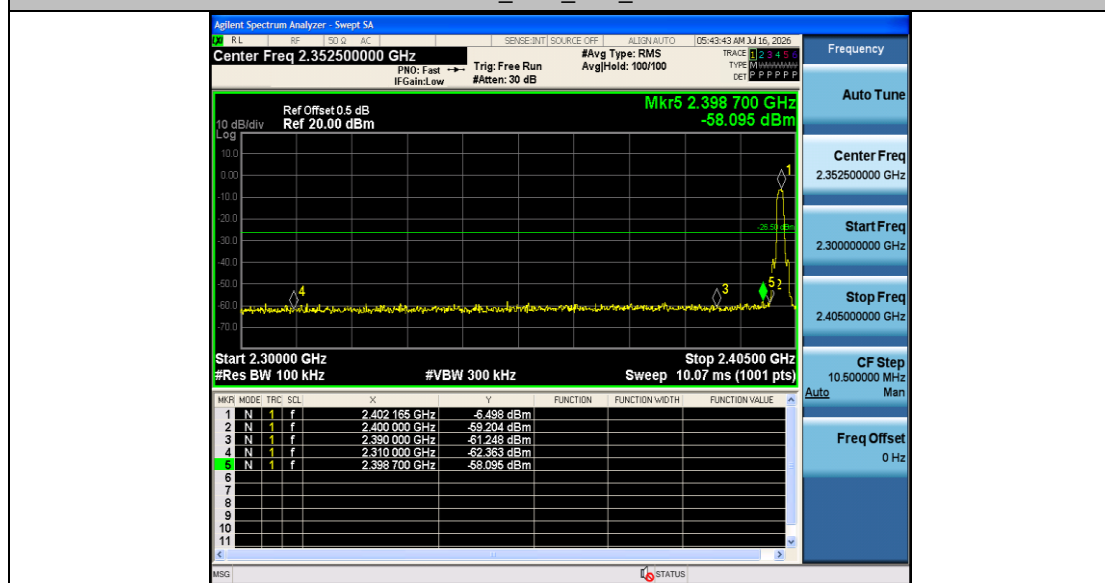




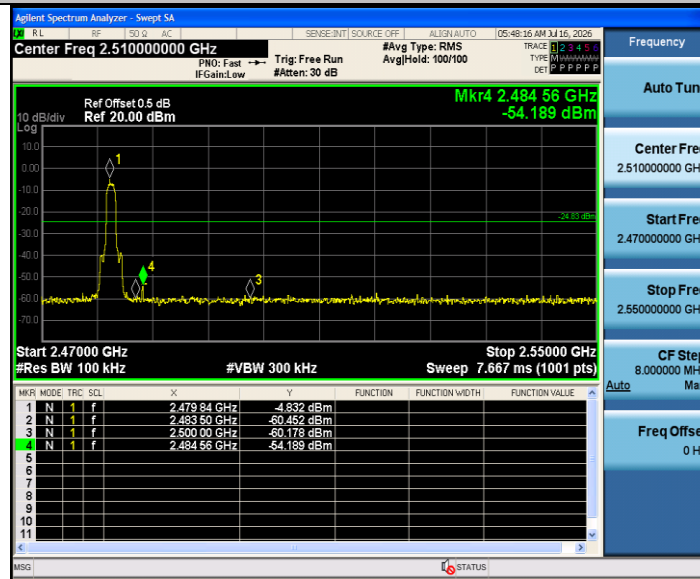
DH5_Ant1_High_Hop_2480



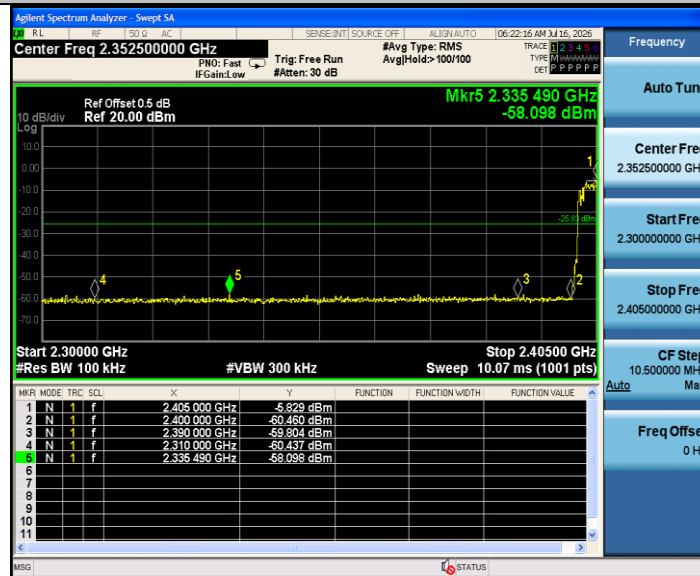
2DH5_Ant1_Low_2402



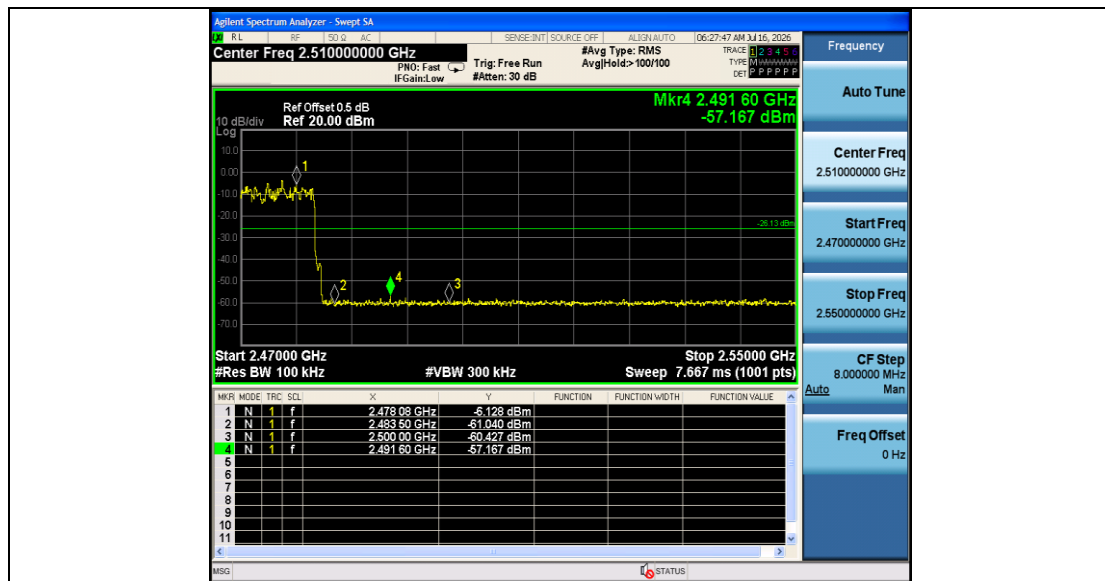
2DH5_Ant1_High_2480



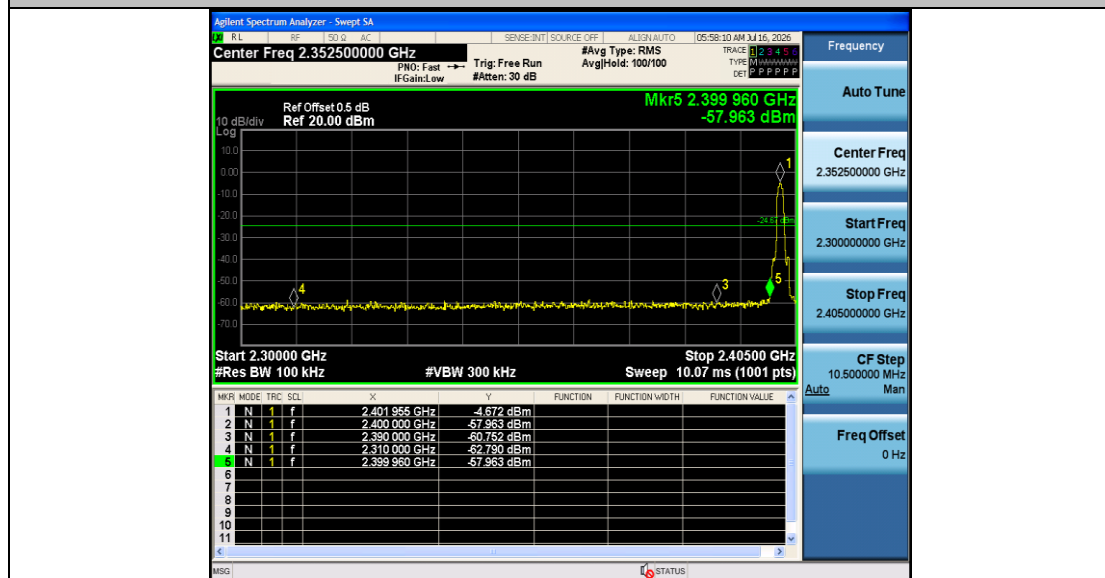
2DH5_Ant1_Low_Hop_2402



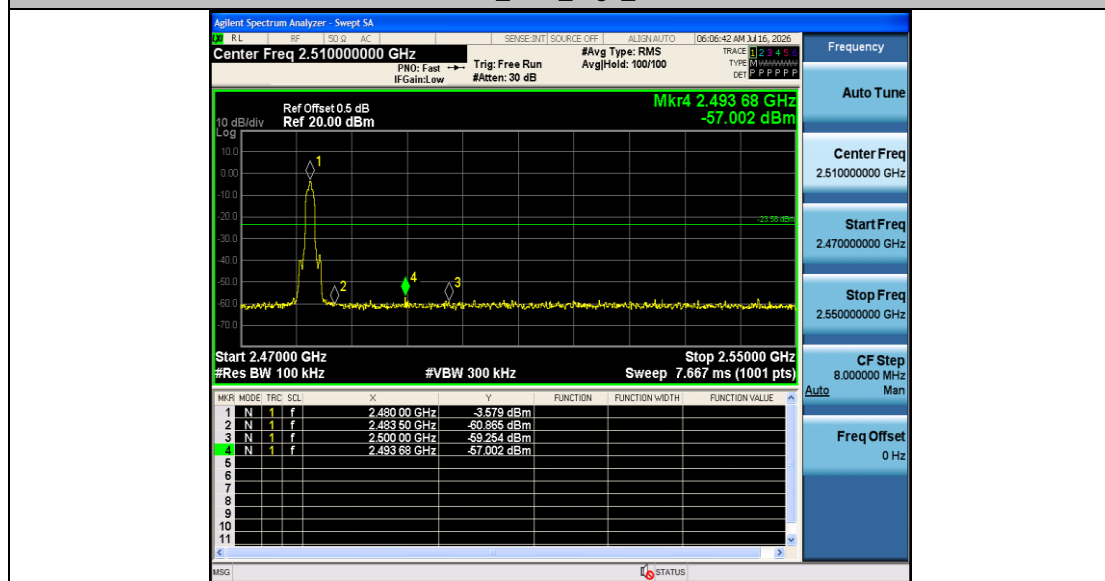
2DH5_Ant1_High_Hop_2480



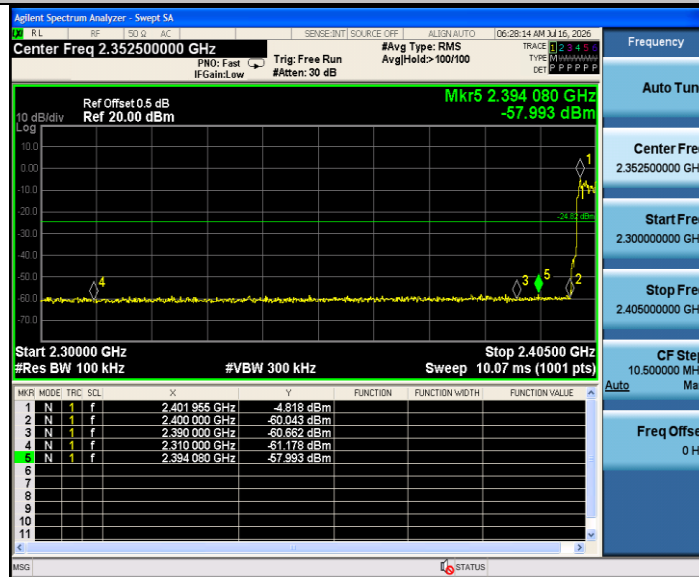
3DH5_Ant1_Low_2402



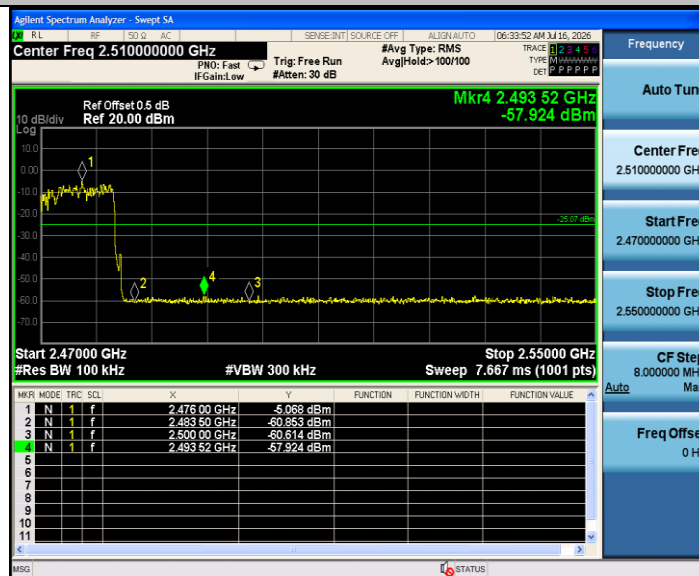
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

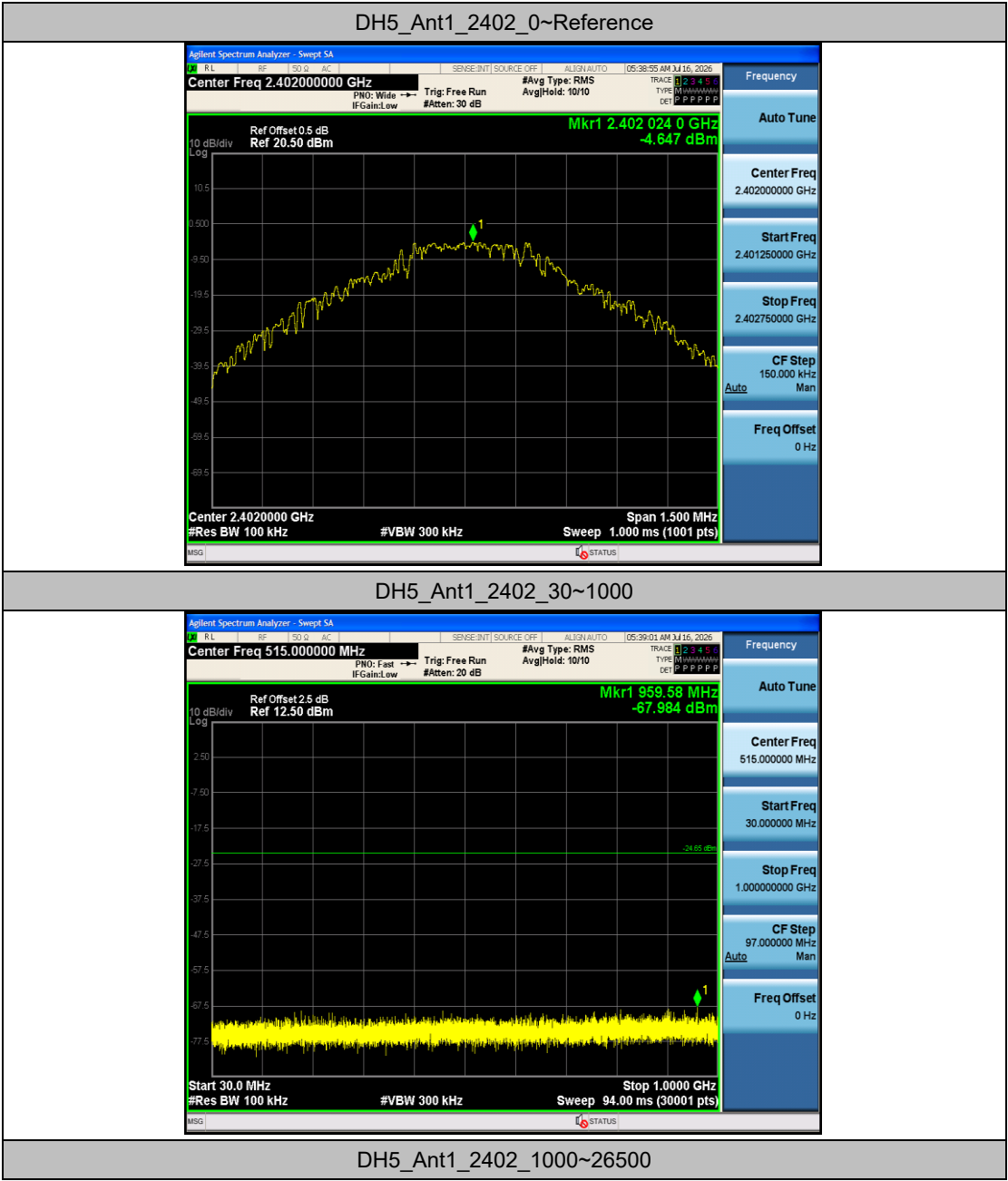


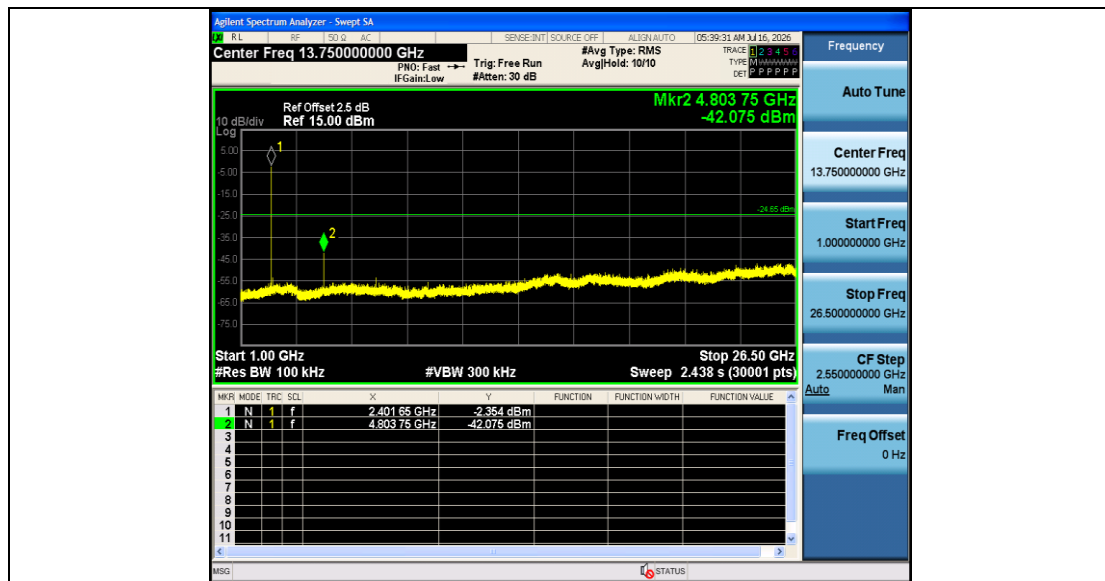
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.65	-4.65	---	PASS
			30~1000	-4.65	-67.98	≤-24.65	PASS
			1000~26500	-4.65	-42.08	≤-24.65	PASS
		2441	Reference	-4.07	-4.07	---	PASS
			30~1000	-4.07	-67.73	≤-24.07	PASS
			1000~26500	-4.07	-46.47	≤-24.07	PASS
		2480	Reference	-3.71	-3.71	---	PASS
			30~1000	-3.71	-68.33	≤-23.71	PASS
			1000~26500	-3.71	-45.6	≤-23.71	PASS
2DH5	Ant1	2402	Reference	-6.45	-6.45	---	PASS
			30~1000	-6.45	-68.26	≤-26.45	PASS
			1000~26500	-6.45	-46.58	≤-26.45	PASS
		2441	Reference	-5.93	-5.93	---	PASS
			30~1000	-5.93	-43.53	≤-25.93	PASS
			1000~26500	-5.93	-46.46	≤-25.93	PASS
		2480	Reference	-3.73	-3.73	---	PASS
			30~1000	-3.73	-68.1	≤-23.73	PASS
			1000~26500	-3.73	-46.74	≤-23.73	PASS
3DH5	Ant1	2402	Reference	-4.22	-4.22	---	PASS
			30~1000	-4.22	-67.43	≤-24.22	PASS
			1000~26500	-4.22	-46.85	≤-24.22	PASS
		2441	Reference	-4.06	-4.06	---	PASS
			30~1000	-4.06	-68.37	≤-24.06	PASS
			1000~26500	-4.06	-46.3	≤-24.06	PASS
		2480	Reference	-7.04	-7.04	---	PASS
			30~1000	-7.04	-67.96	≤-27.04	PASS
			1000~26500	-7.04	-45.76	≤-27.04	PASS

Test Graphs

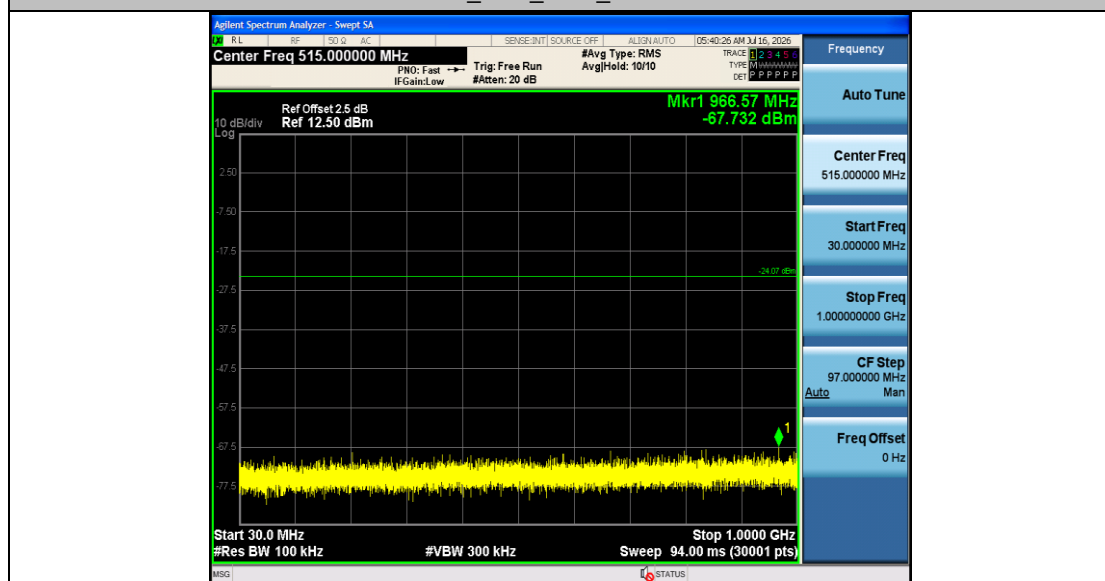




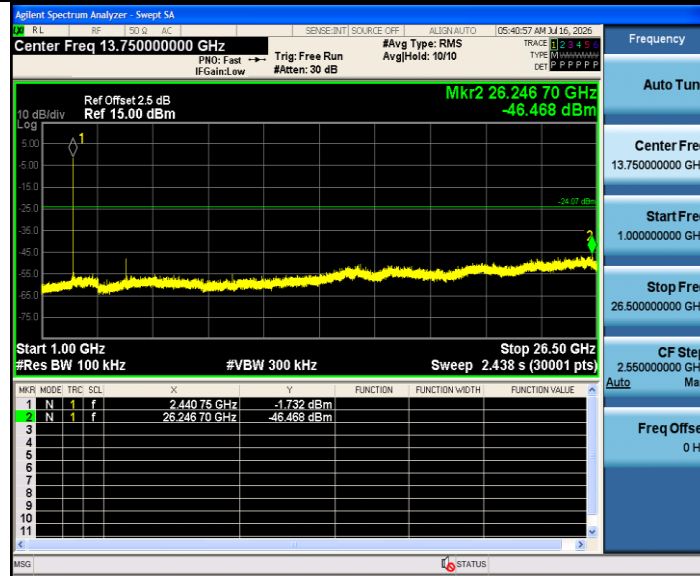
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



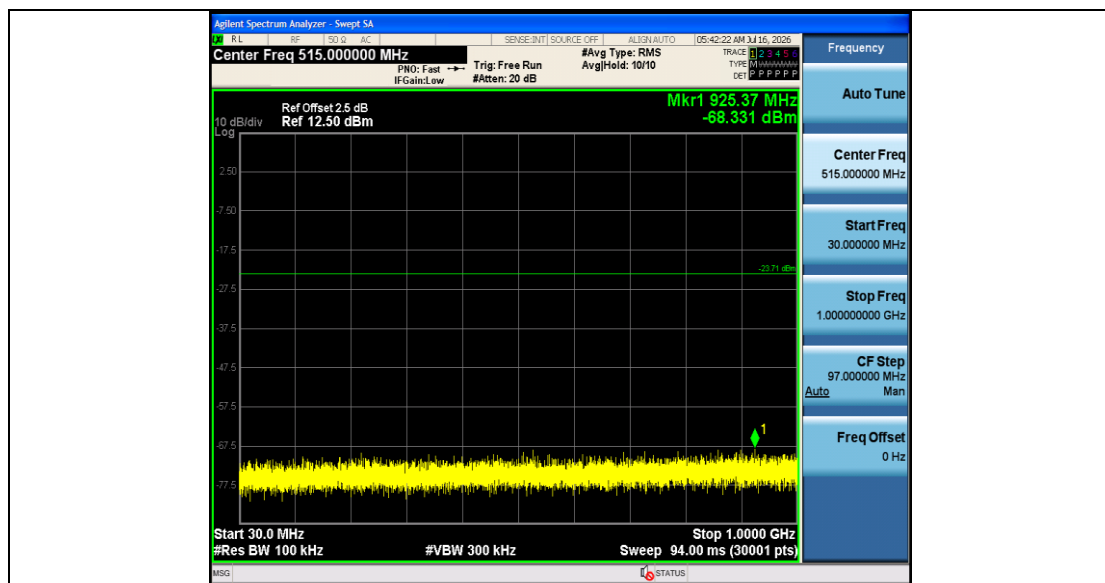
DH5_Ant1_2441_1000~26500



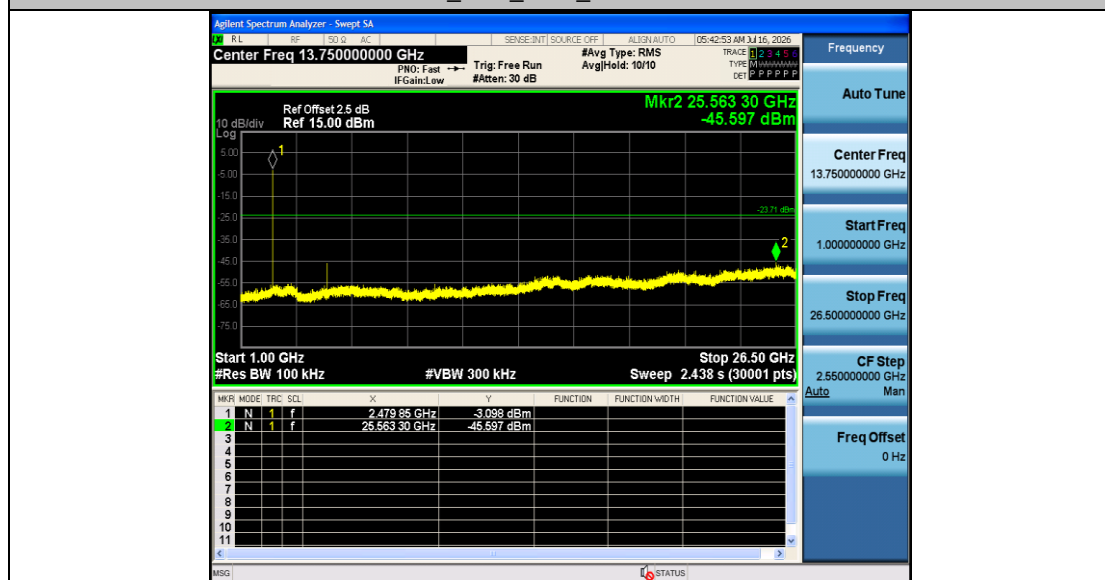
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

