

FCC Appendix RF Test Data for BT

FCC ID : 2BXXE-Y07

Company : Shenzhen Tongyan Technology Co., Ltd.

EUT : Bluetooth headset

Model Number : Y07

Report No. : CTA26081100101

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	2401.547	2402.498	---	---
		2441	0.954	2440.547	2441.501	---	---
		2480	0.894	2479.550	2480.444	---	---
2DH5	Ant1	2402	0.933	2401.553	2402.486	---	---
		2441	0.888	2440.550	2441.438	---	---
		2480	0.963	2479.541	2480.504	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

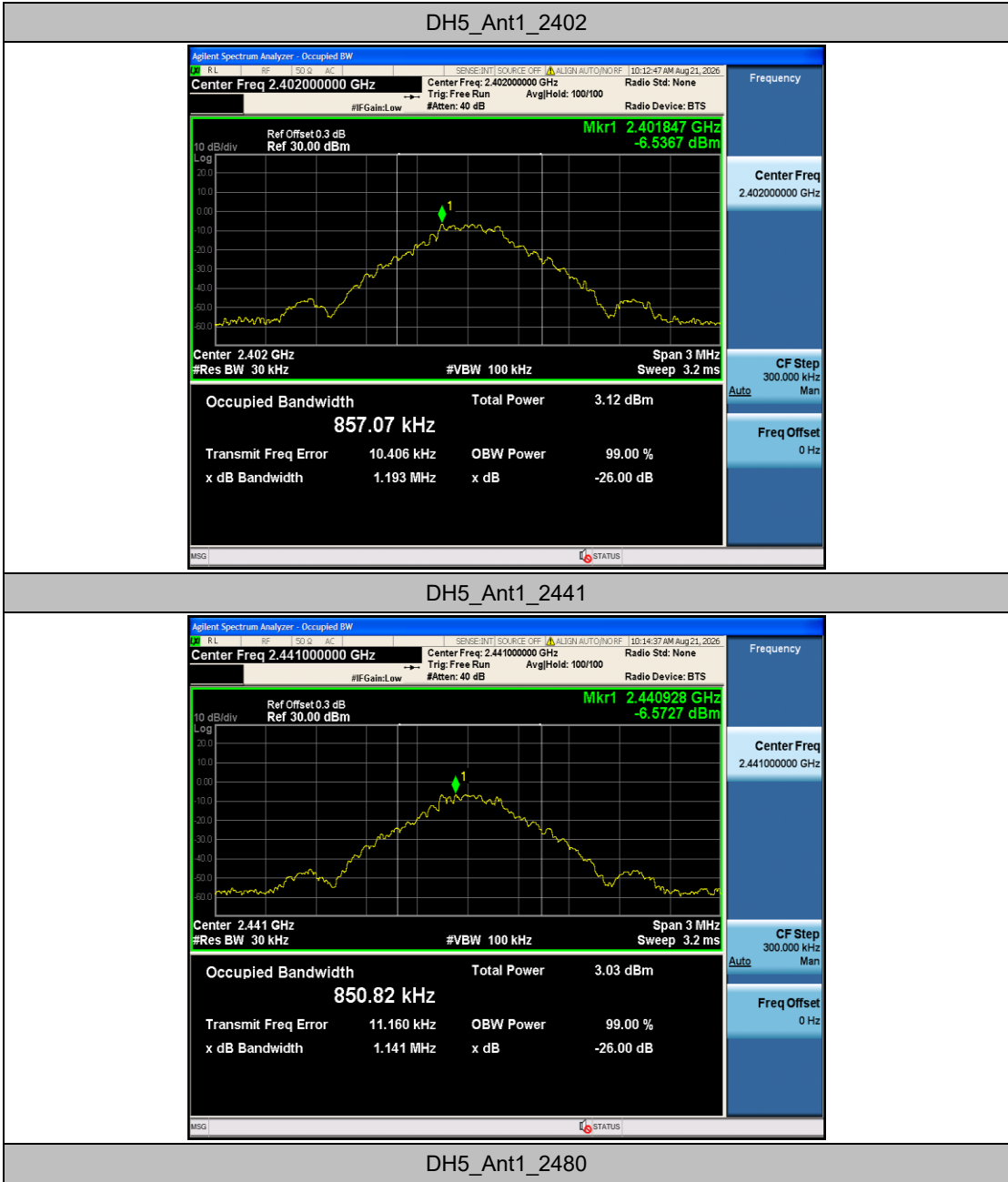


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85707	2401.5819	2402.4389	---	---
		2441	0.85082	2440.5858	2441.4366	---	---
		2480	0.86589	2479.5746	2480.4405	---	---
2DH5	Ant1	2402	0.86790	2401.5786	2402.4465	---	---
		2441	0.86647	2440.5767	2441.4432	---	---
		2480	0.86877	2479.5776	2480.4464	---	---

Test Graphs





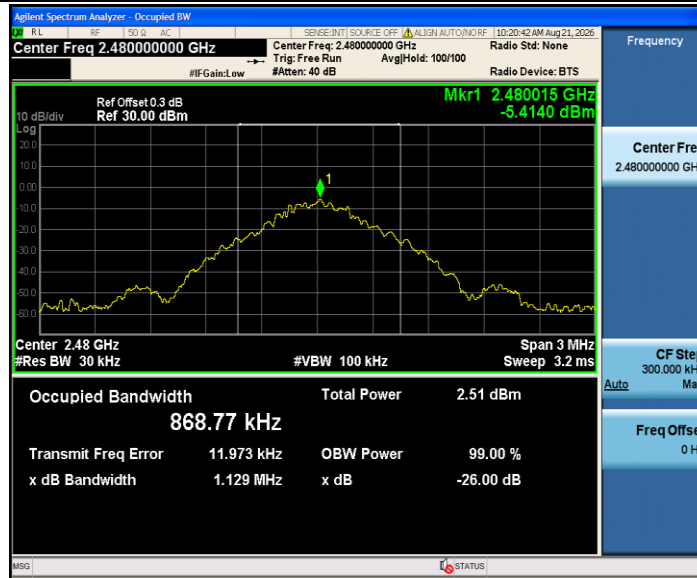
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_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	-3.49	≤20.97	PASS
		2441	-3.56	≤20.97	PASS
		2480	-3.81	≤20.97	PASS
2DH5	Ant1	2402	-3.51	≤20.97	PASS
		2441	-3.57	≤20.97	PASS
		2480	-3.83	≤20.97	PASS

Right:

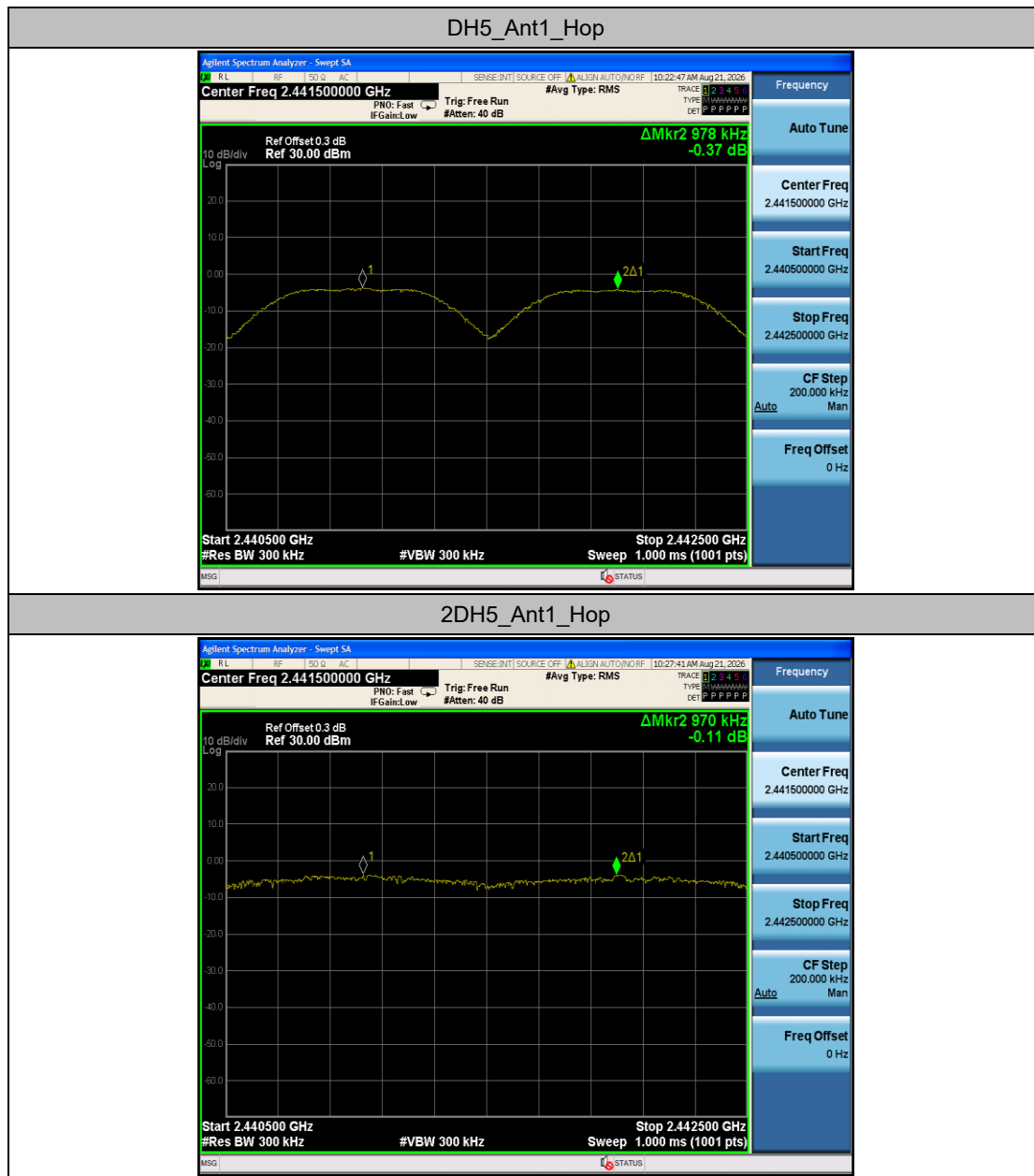
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.68	≤20.97	PASS
		2441	-3.24	≤20.97	PASS
		2480	-3.16	≤20.97	PASS
2DH5	Ant1	2402	-3.07	≤20.97	PASS
		2441	-3.15	≤20.97	PASS
		2480	-3.39	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.978	≥ 0.954	PASS
2DH5	Ant1	Hop	0.97	≥ 0.963	PASS

Test Graphs

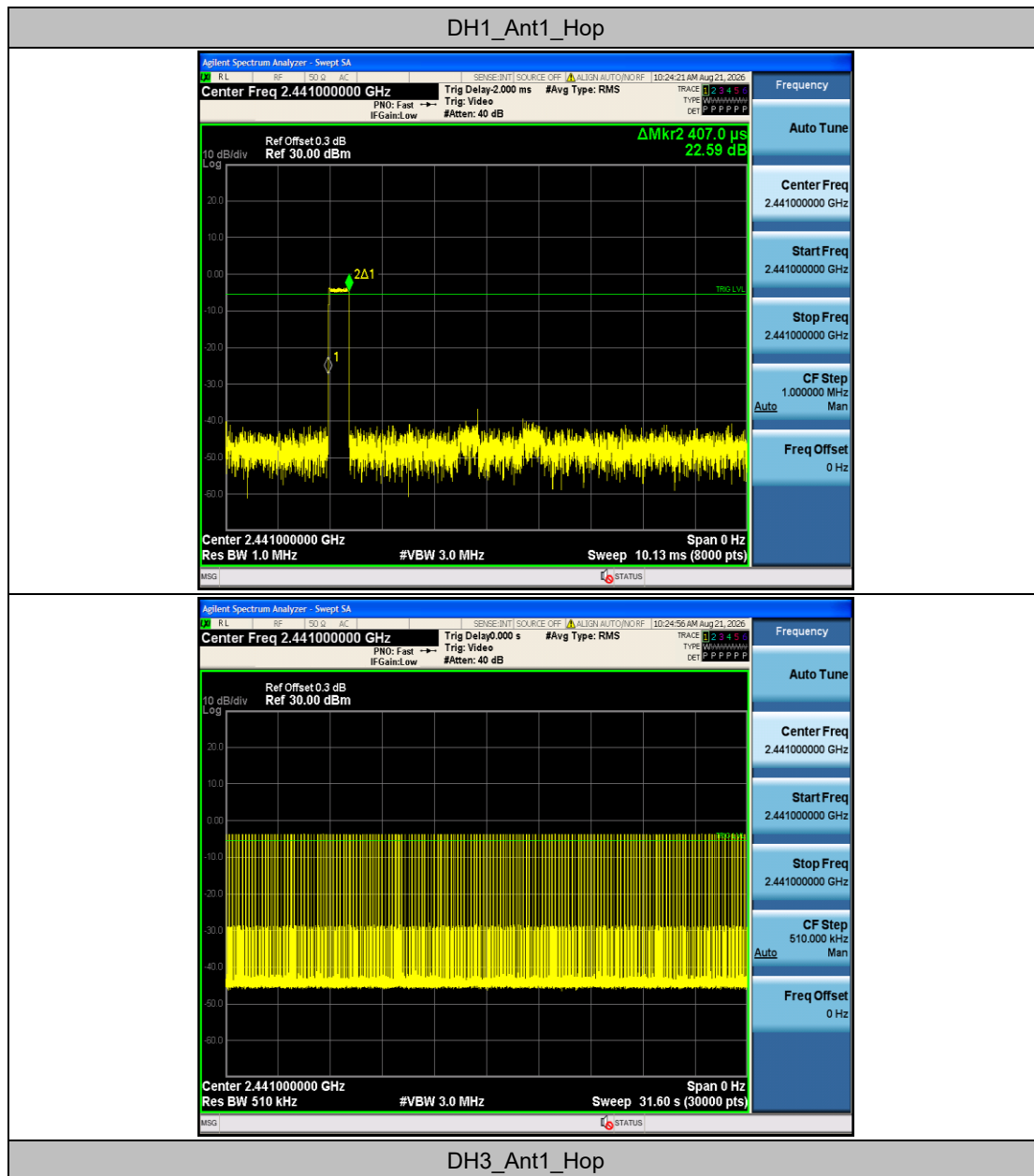


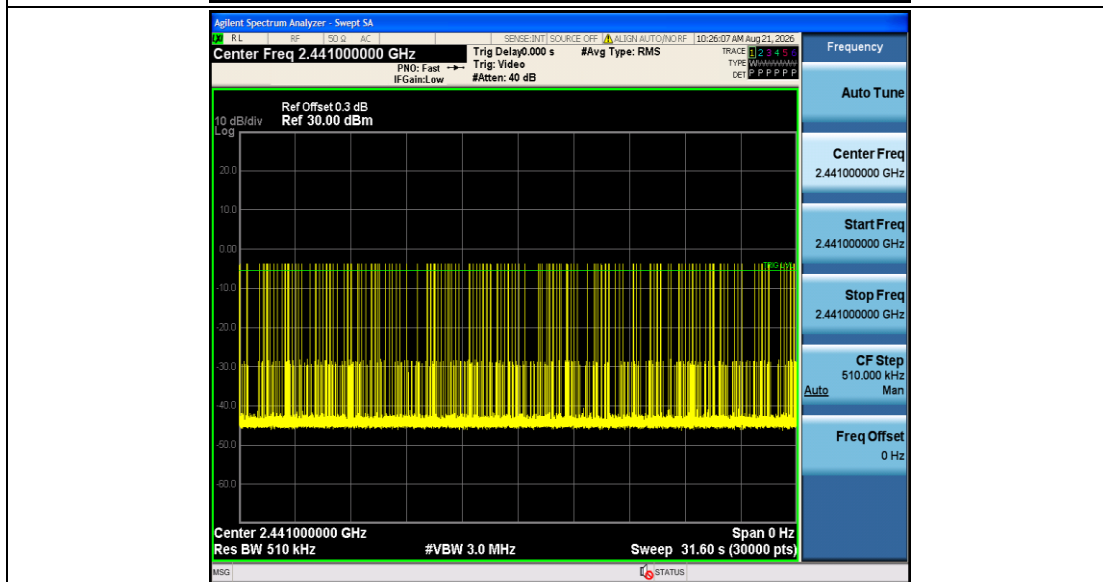
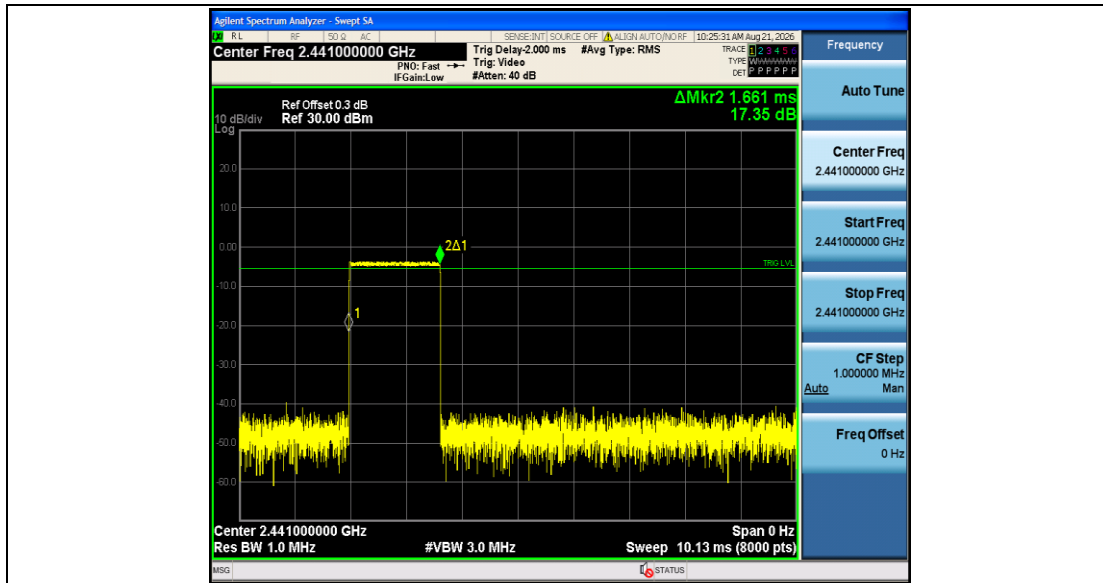
Appendix E: Time of occupancy

Test Result

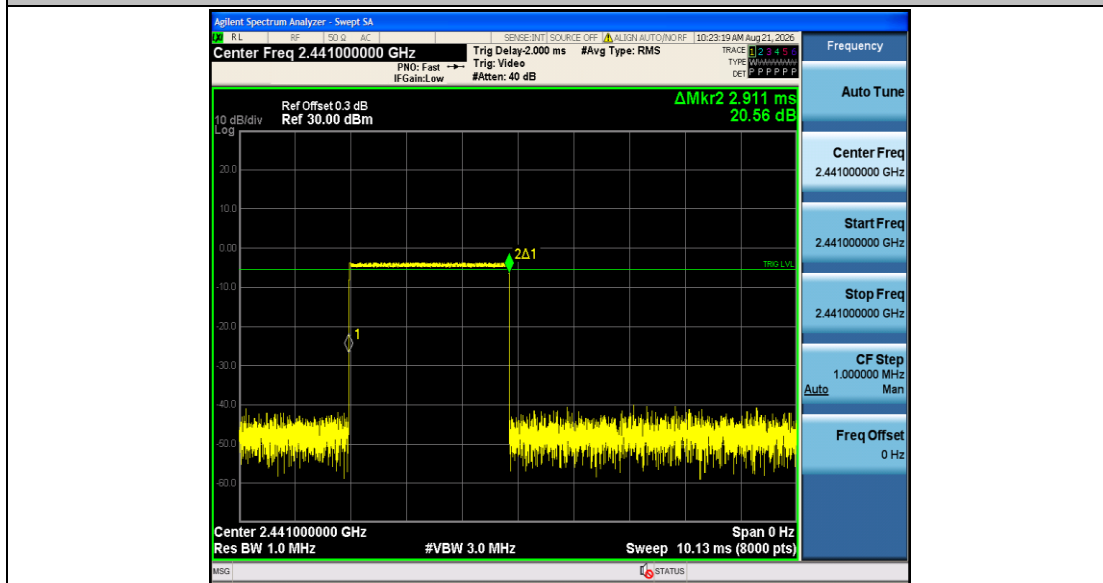
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	310	0.126	≤0.4	PASS
DH3	Ant1	Hop	1.661	161	0.267	≤0.4	PASS
DH5	Ant1	Hop	2.911	114	0.332	≤0.4	PASS
2DH1	Ant1	Hop	0.415	317	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.667	156	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.915	105	0.306	≤0.4	PASS

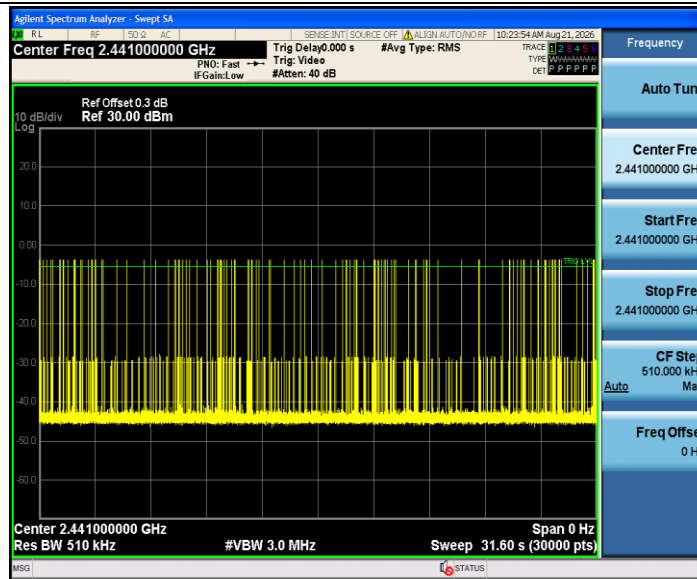
Test Graphs



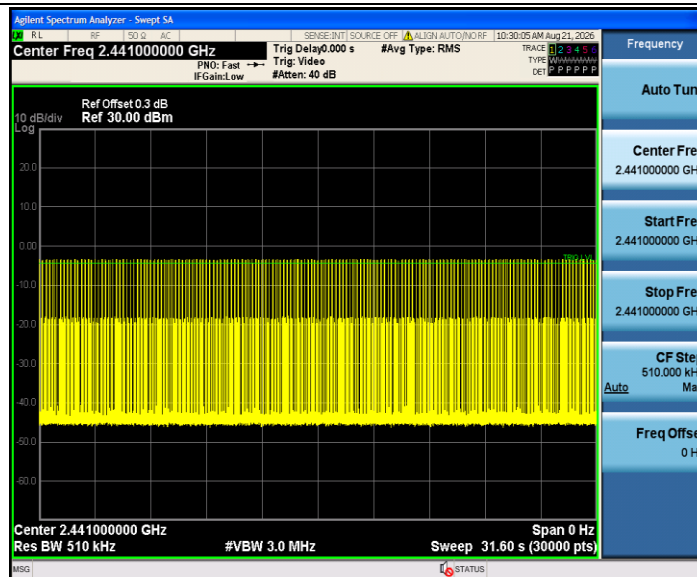
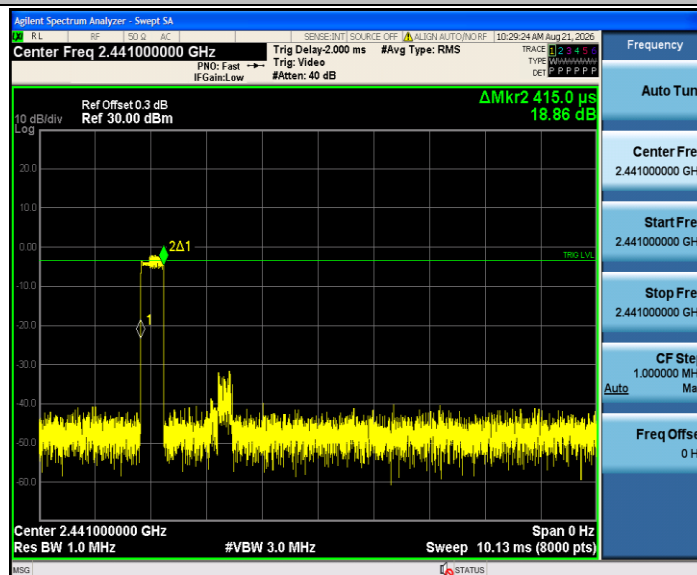


DH5_Ant1_Hop

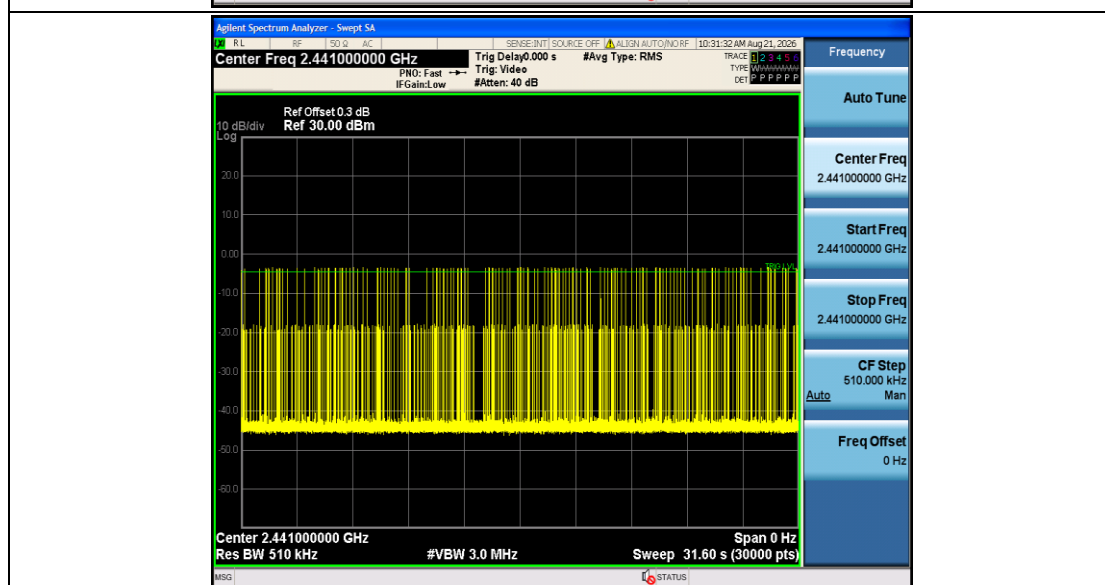
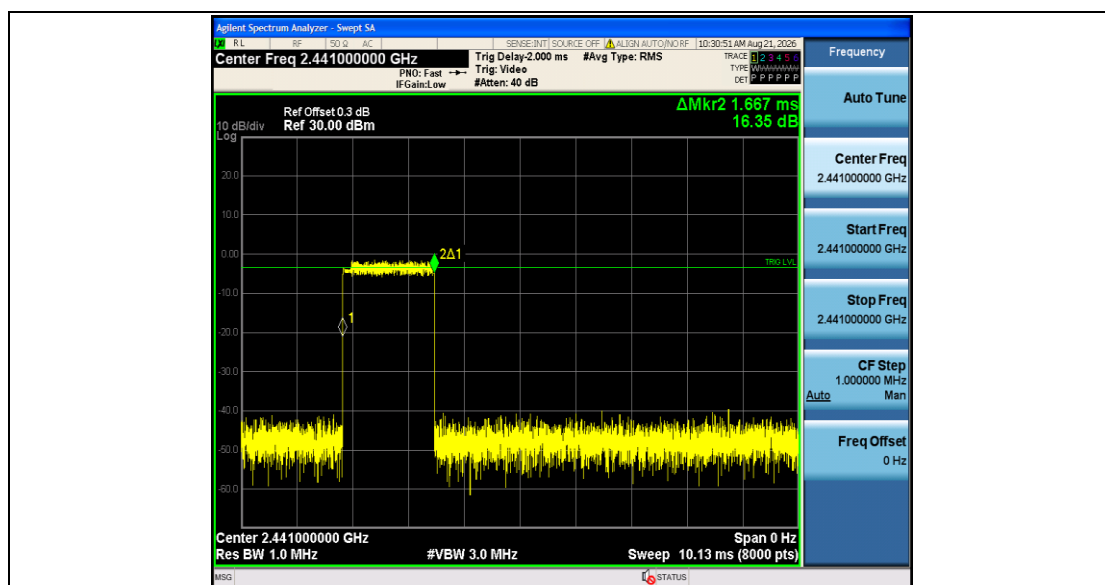




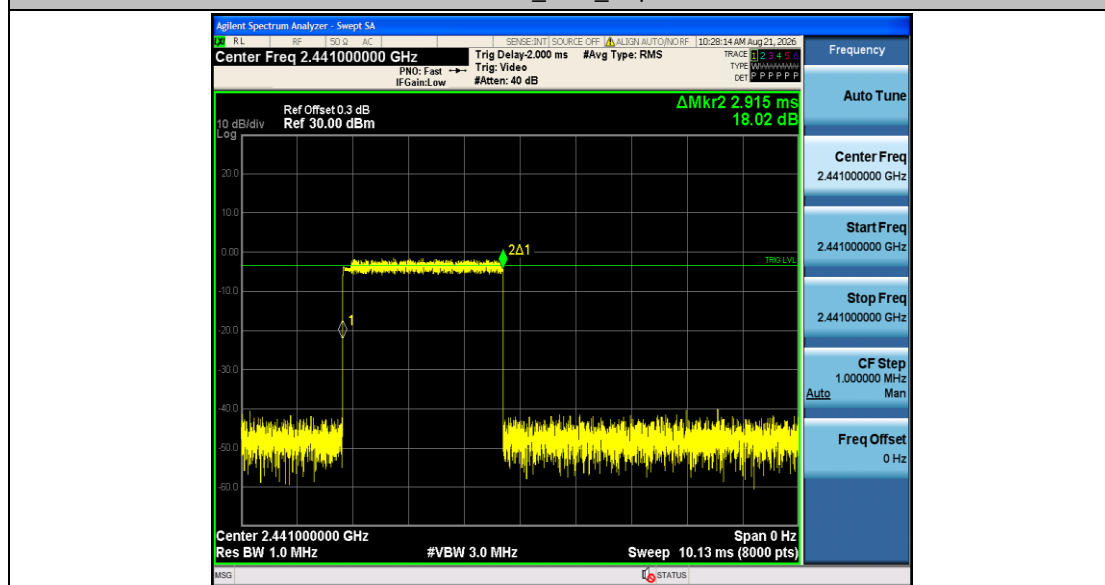
2DH1_Ant1_Hop

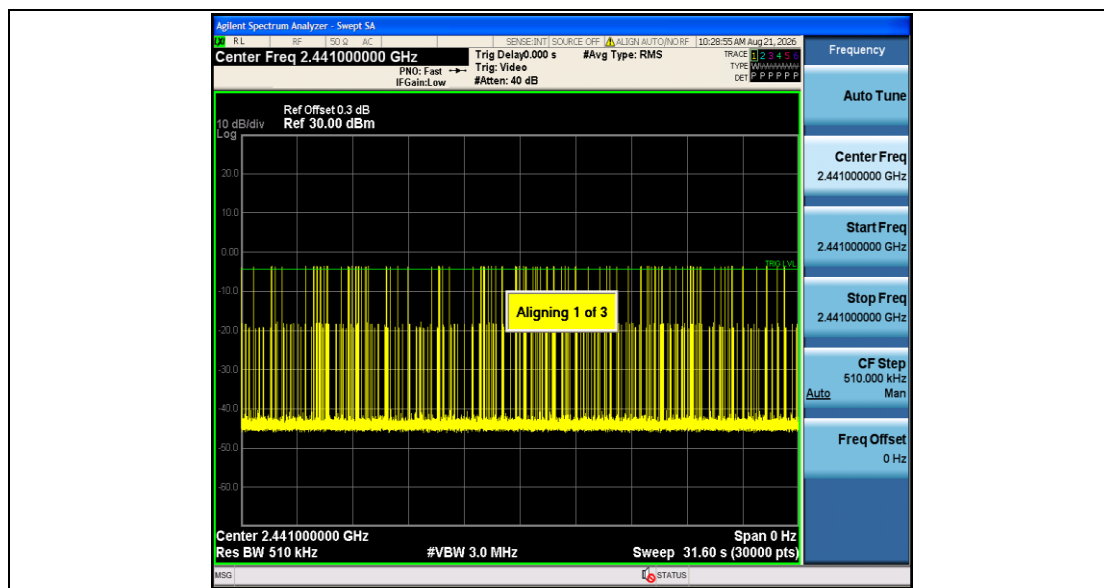


2DH3_Ant1_Hop



2DH5_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

Test Graphs

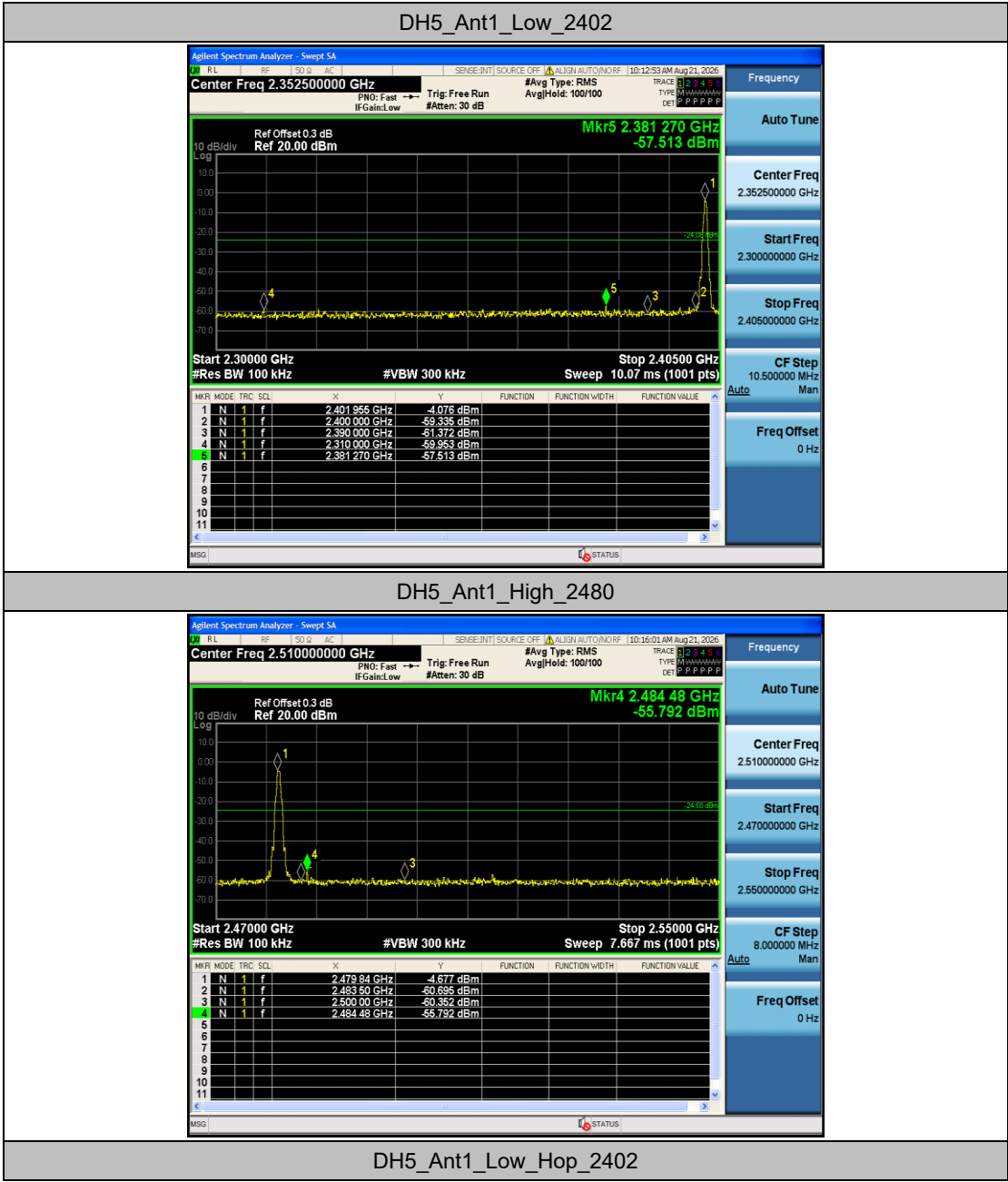


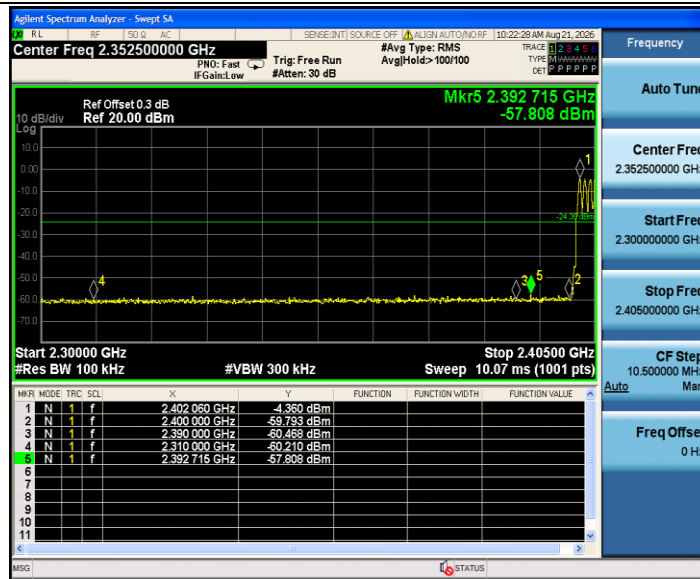
Appendix G: Band edge measurements

Test Result

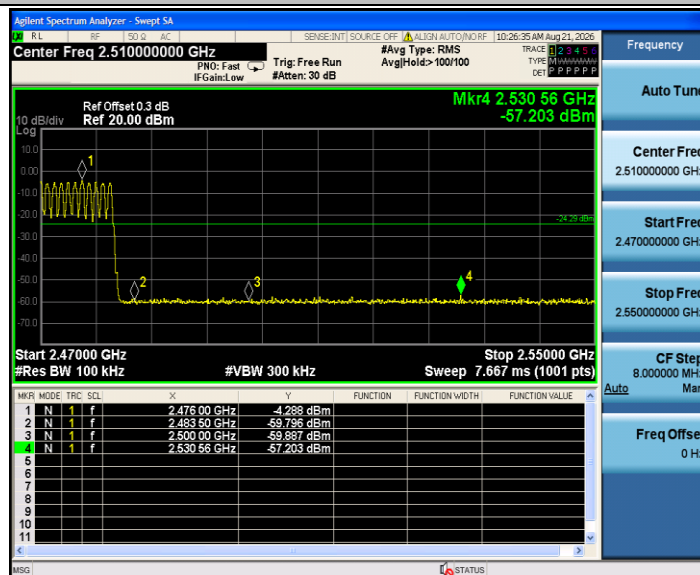
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.08	-57.51	≤-24.08	PASS
		High	2480	-4.68	-55.79	≤-24.68	PASS
		Low	Hop_2402	-4.36	-57.81	≤-24.36	PASS
		High	Hop_2480	-4.29	-57.2	≤-24.29	PASS
2DH5	Ant1	Low	2402	-3.74	-58.28	≤-23.74	PASS
		High	2480	-4.49	-56.25	≤-24.49	PASS
		Low	Hop_2402	-5.39	-57.04	≤-25.39	PASS
		High	Hop_2480	-5.11	-58.4	≤-25.11	PASS

Test Graphs

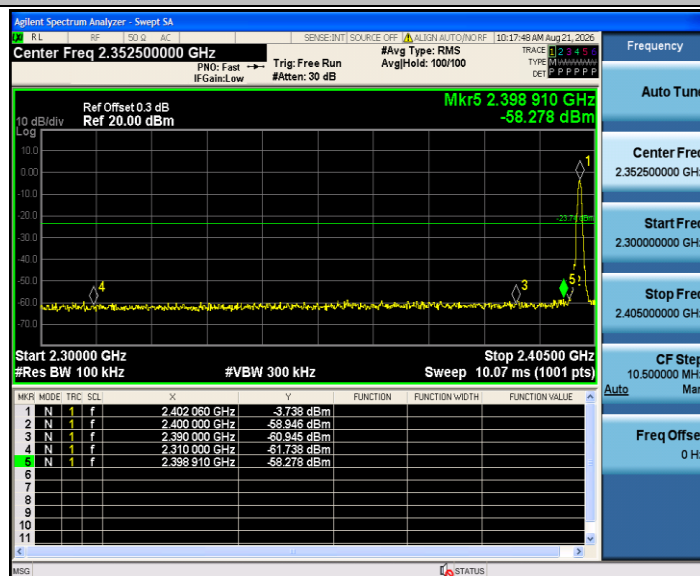




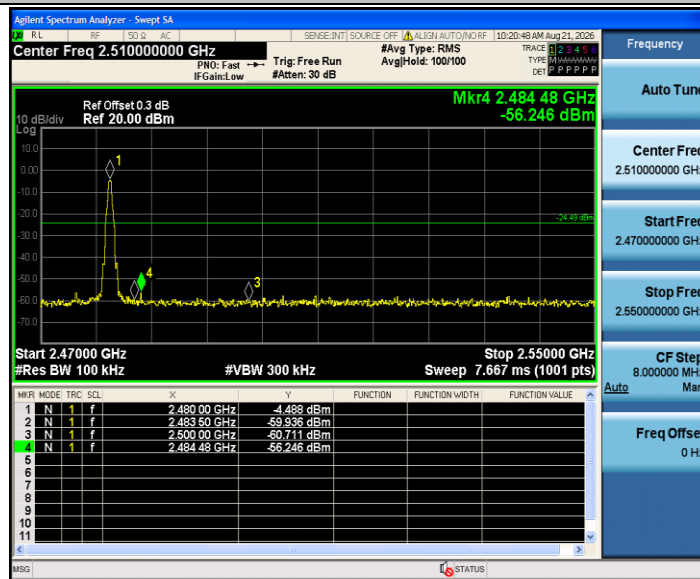
DH5_Ant1_High_Hop_2480



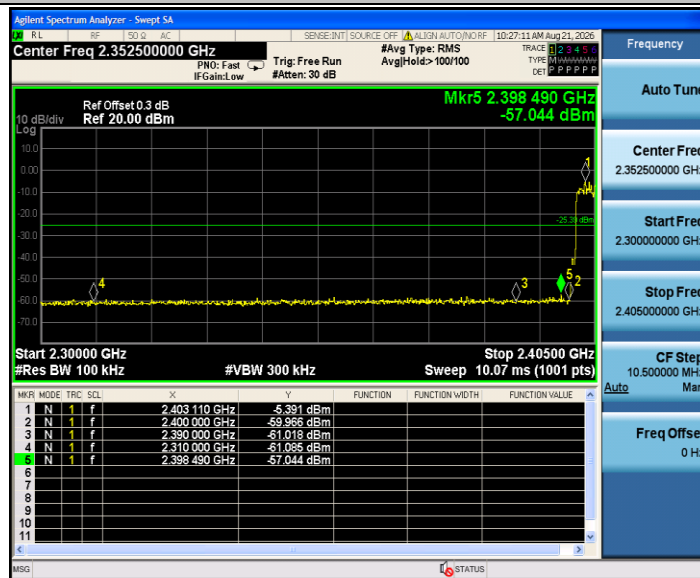
2DH5_Ant1_Low_2402



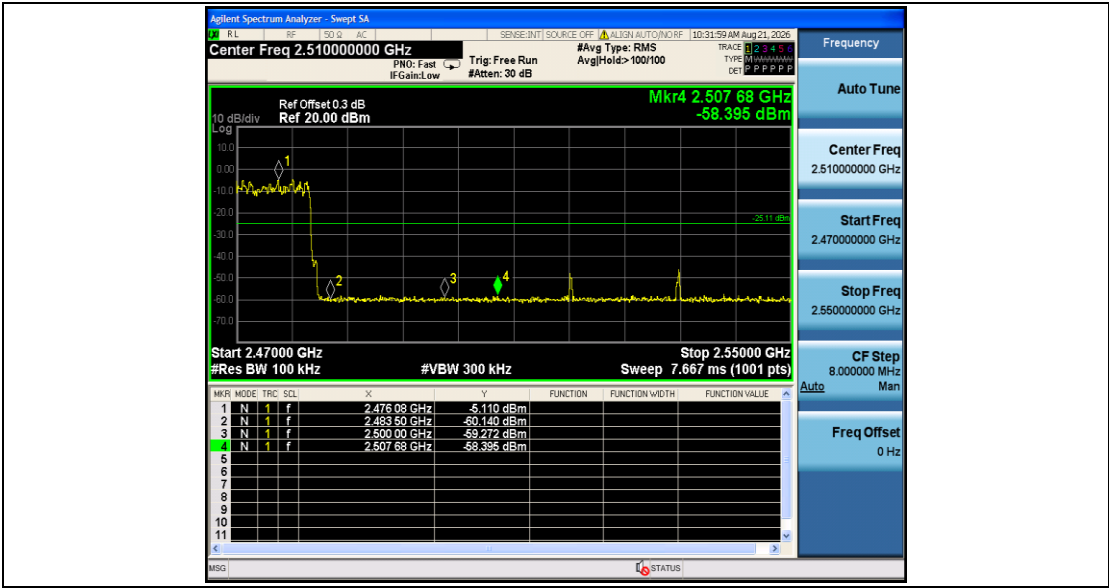
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

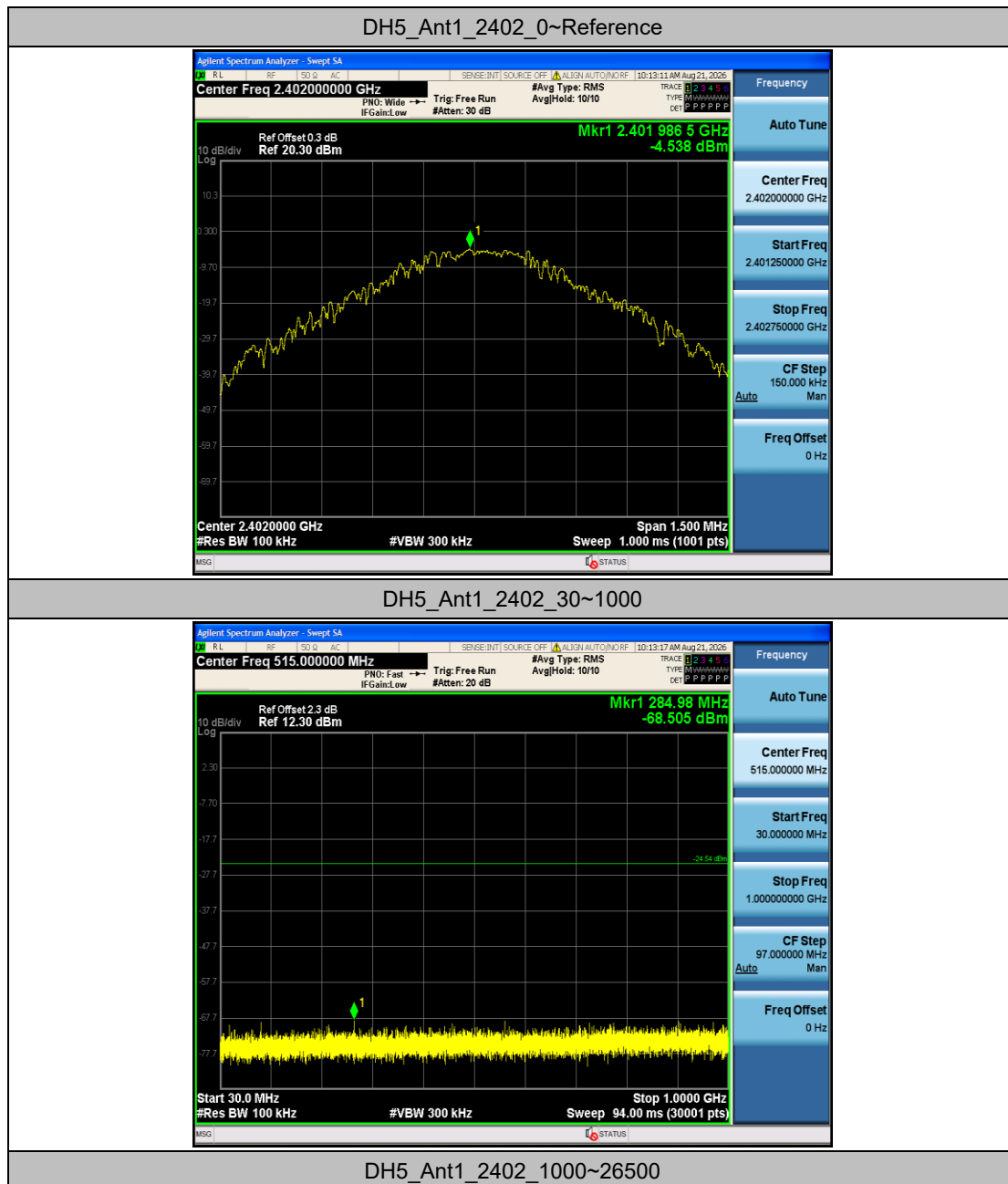


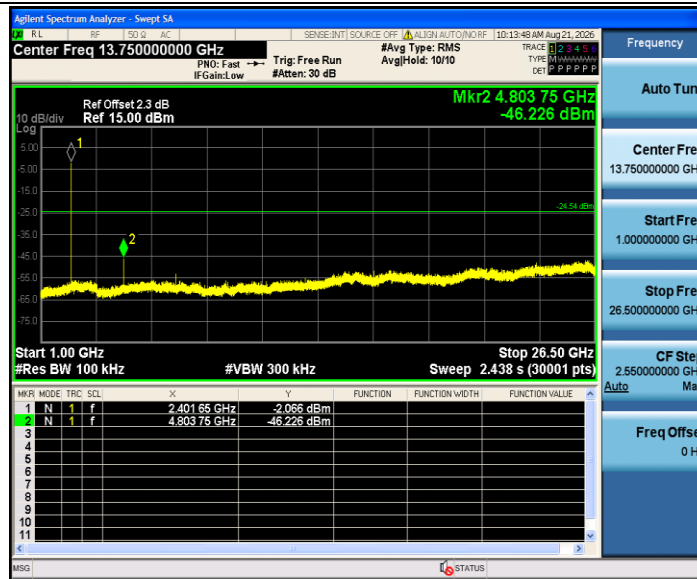
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.54	-4.54	---	PASS
			30~1000	-4.54	-68.51	≤-24.54	PASS
			1000~26500	-4.54	-46.23	≤-24.54	PASS
		2441	Reference	-4.74	-4.74	---	PASS
			30~1000	-4.74	-68.88	≤-24.74	PASS
			1000~26500	-4.74	-46.56	≤-24.74	PASS
		2480	Reference	-4.89	-4.89	---	PASS
			30~1000	-4.89	-68.02	≤-24.89	PASS
			1000~26500	-4.89	-45.81	≤-24.89	PASS
2DH5	Ant1	2402	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-68.3	≤-25.02	PASS
			1000~26500	-5.02	-46.77	≤-25.02	PASS
		2441	Reference	-4.66	-4.66	---	PASS
			30~1000	-4.66	-68.01	≤-24.66	PASS
			1000~26500	-4.66	-46.23	≤-24.66	PASS
		2480	Reference	-5.01	-5.01	---	PASS
			30~1000	-5.01	-68.89	≤-25.01	PASS
			1000~26500	-5.01	-47.04	≤-25.01	PASS

Test Graphs

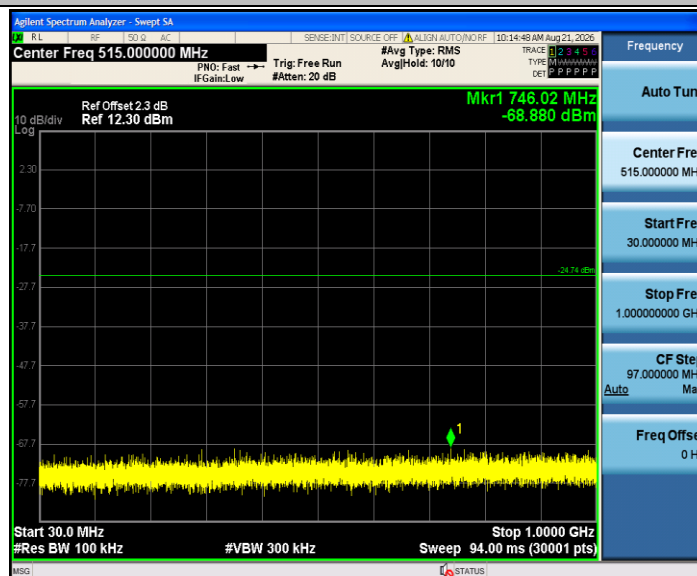




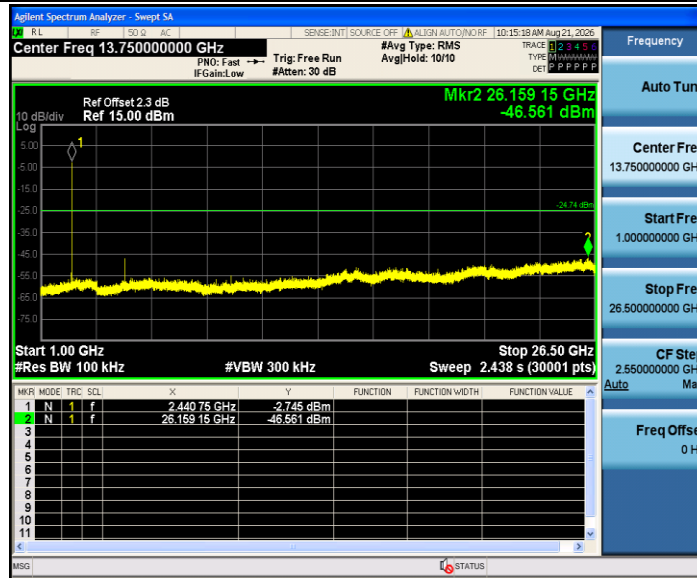
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



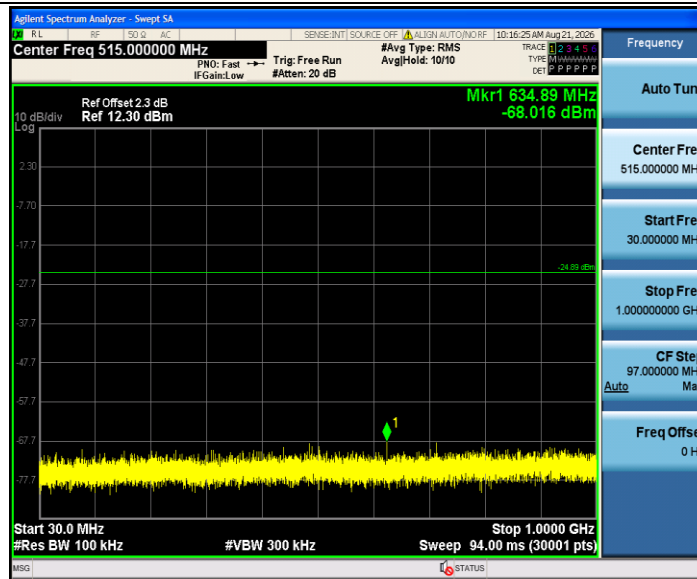
DH5_Ant1_2441_1000~26500



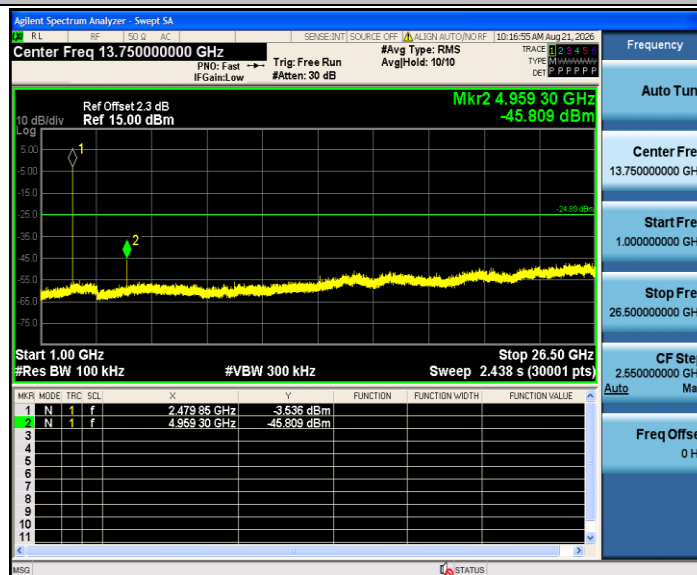
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



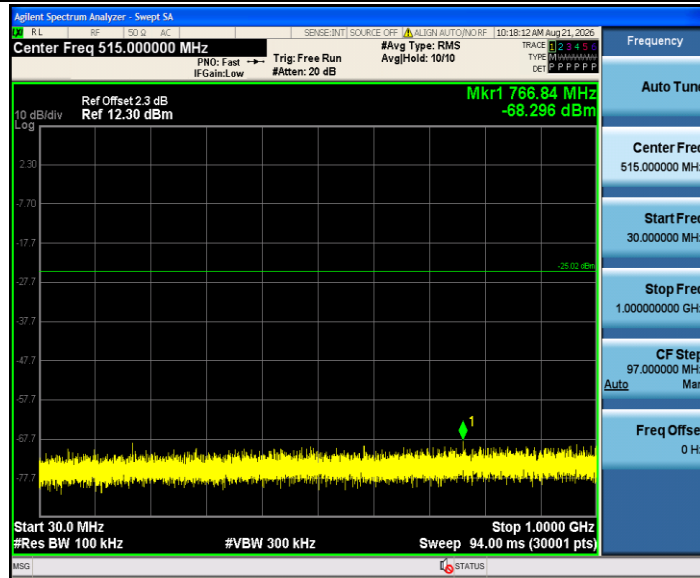
DH5_Ant1_2480_1000~26500



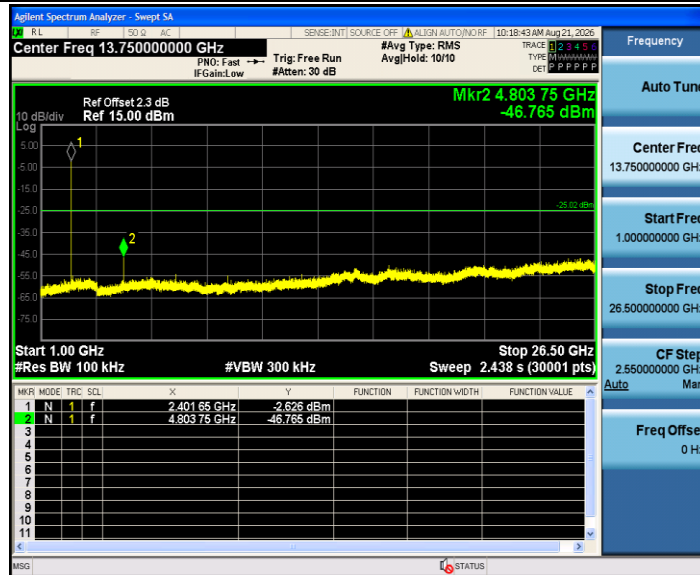
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



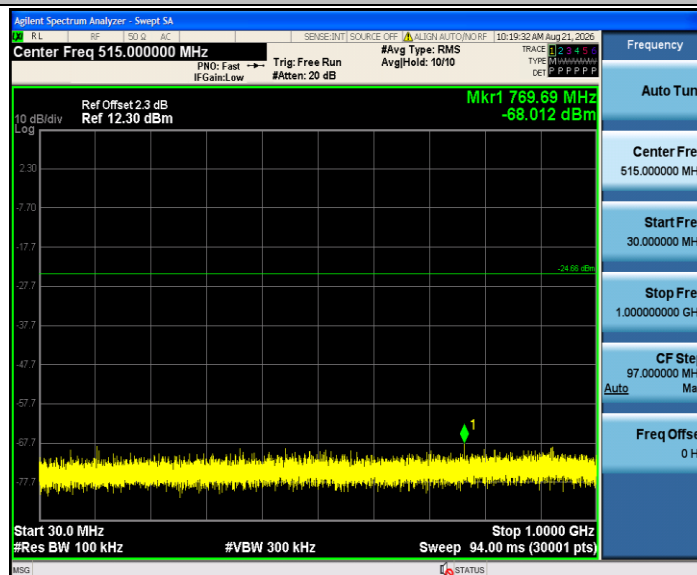
2DH5_Ant1_2402_1000~26500



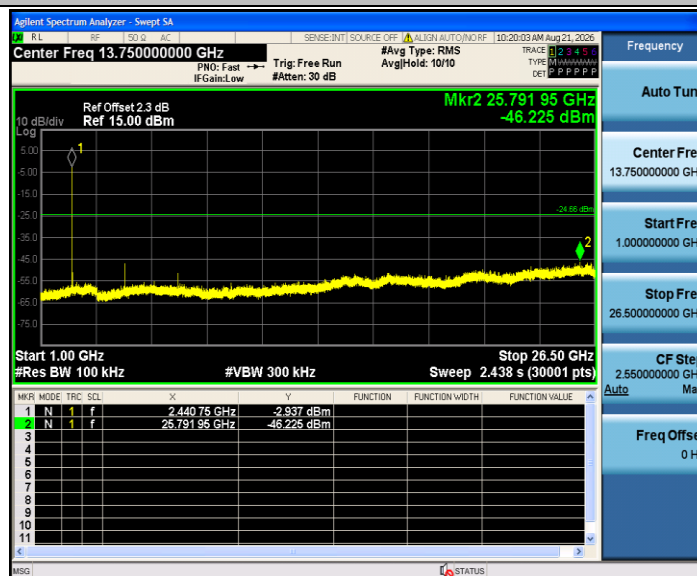
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



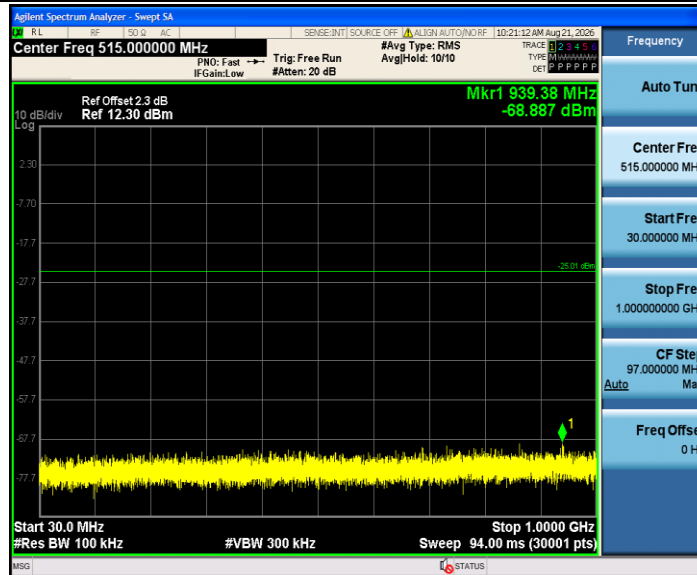
2DH5_Ant1_2441_1000~26500



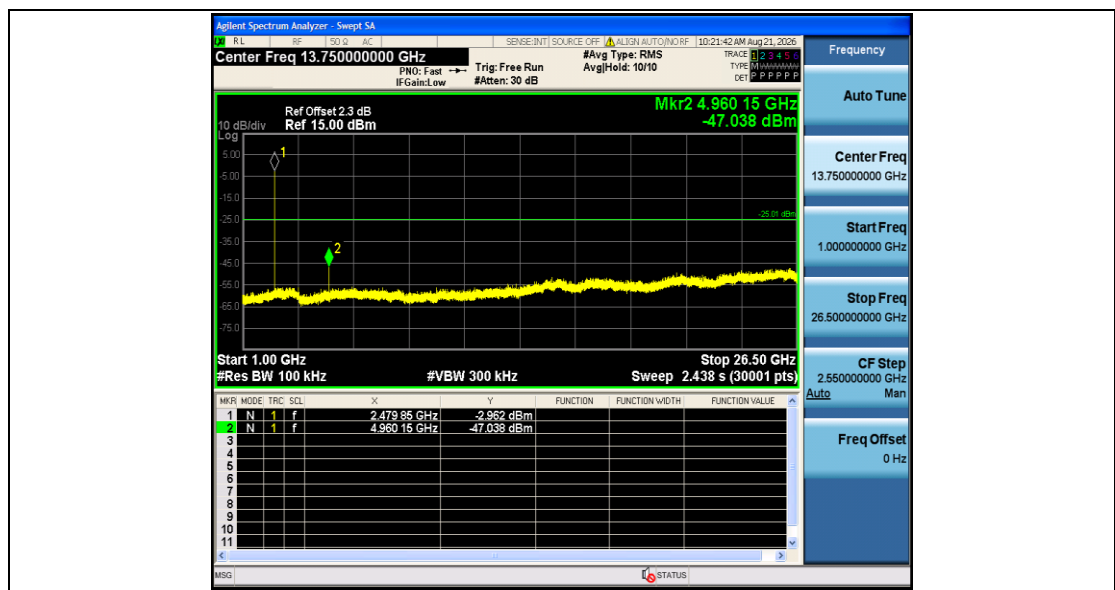
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---