

FCC Appendix RF Test Data

FCC ID : 2BPT2-Y16

Company: : Shenzhen Yiqingteng Electronic Technology Co., Ltd.

EUT : Smart watch

Model Number : Y16

Report No. : CTA25040800202

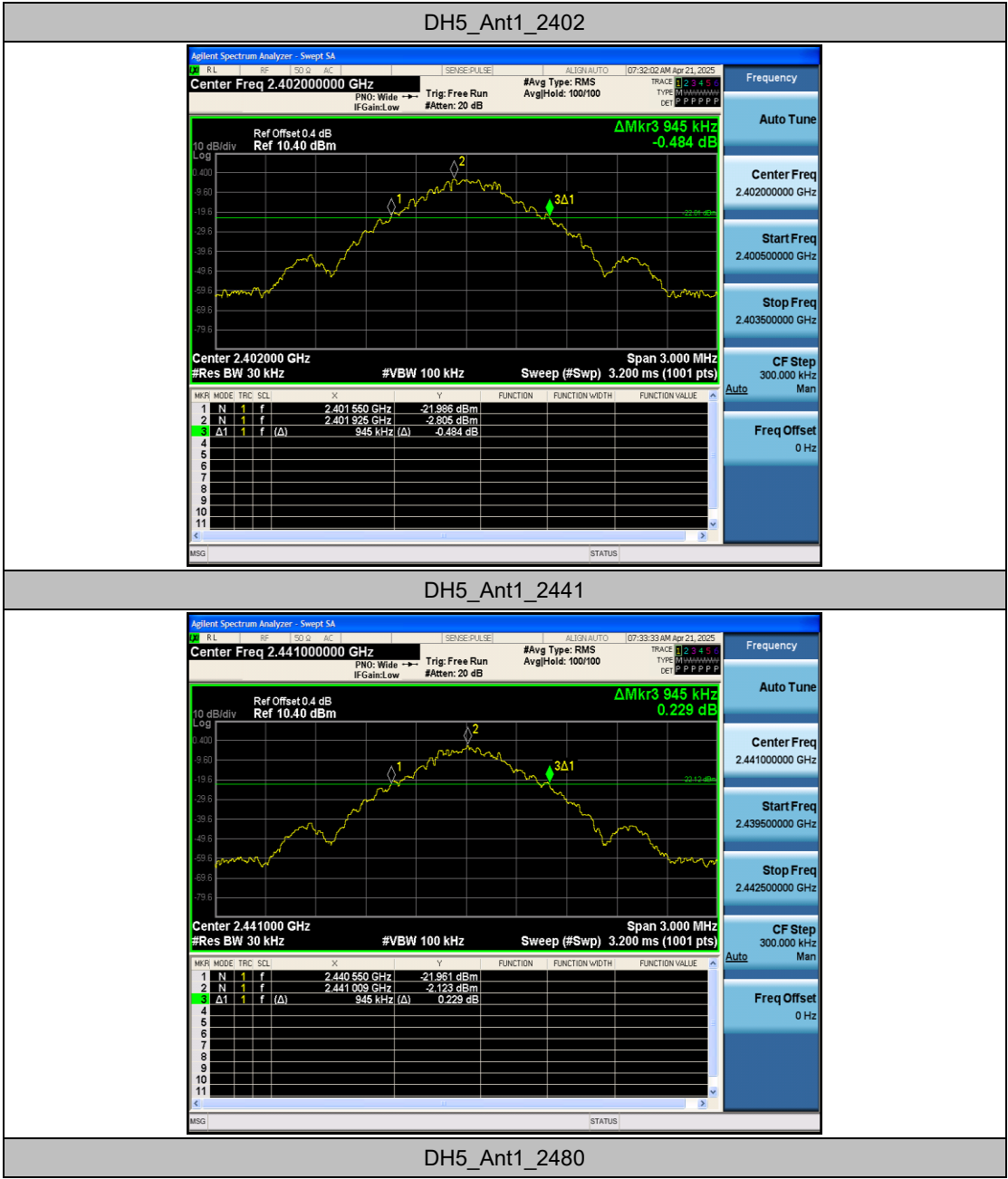
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.550	2402.495	---	---
		2441	0.945	2440.550	2441.495	---	---
		2480	0.948	2479.547	2480.495	---	---
2DH5	Ant1	2402	1.272	2401.388	2402.660	---	---
		2441	1.278	2440.385	2441.663	---	---
		2480	1.320	2479.349	2480.669	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

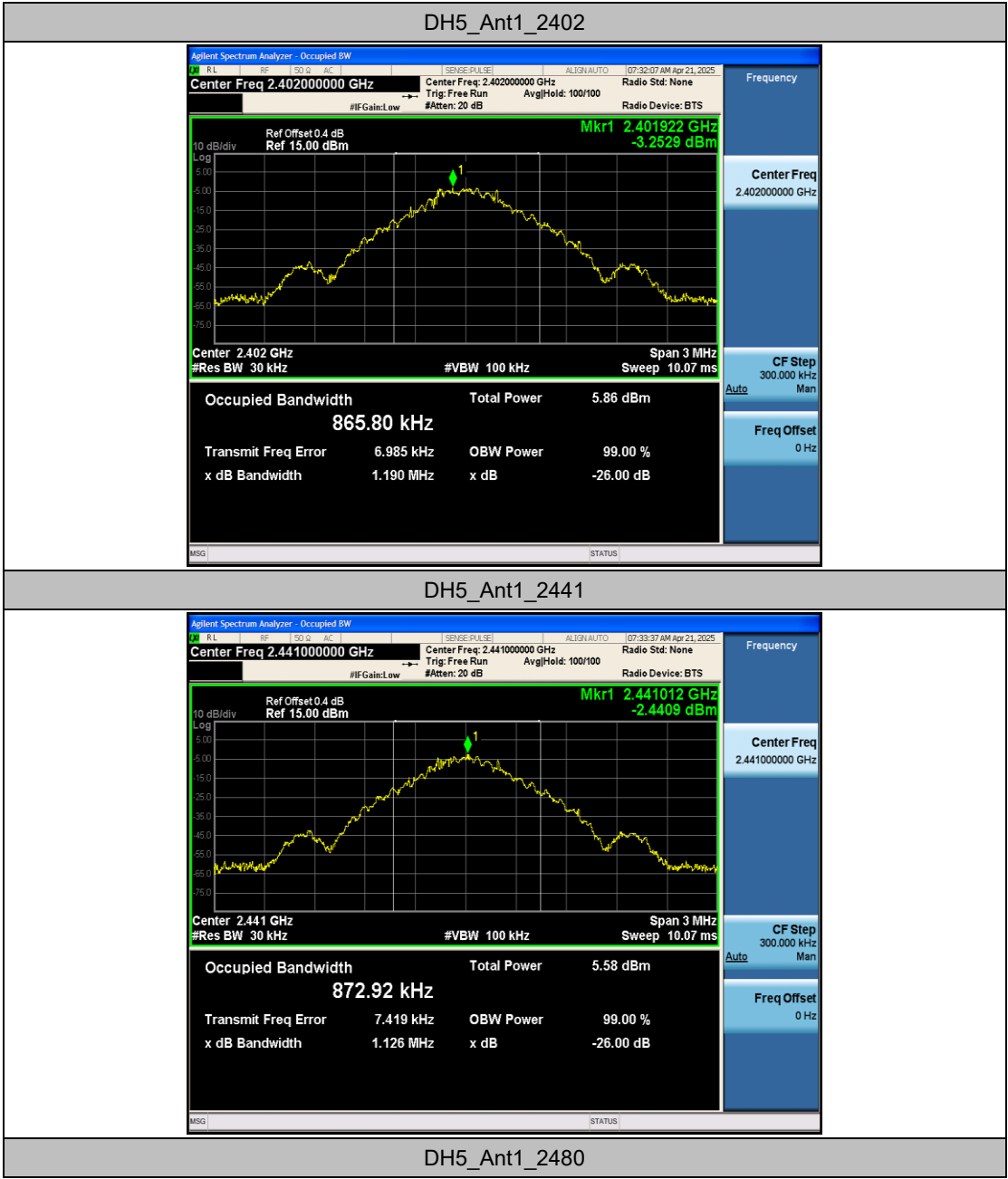


Appendix B: Occupied Channel Bandwidth

Test Result

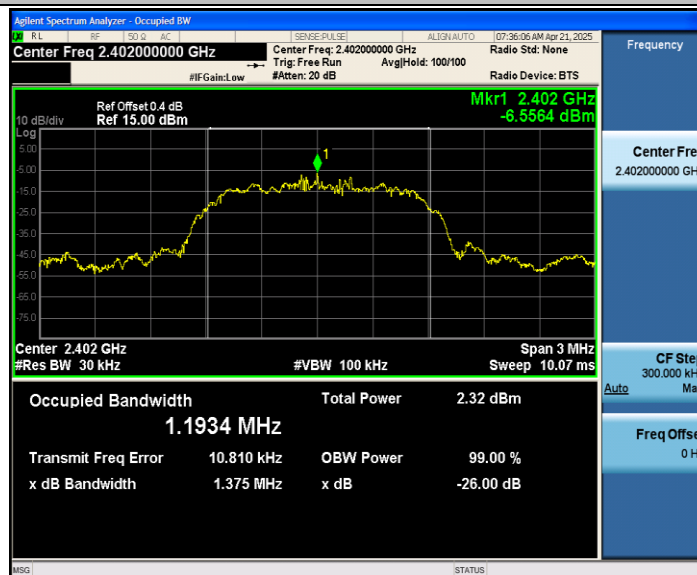
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86580	2401.5741	2402.4399	---	---
		2441	0.87292	2440.5710	2441.4439	---	---
		2480	0.87108	2479.5714	2480.4425	---	---
2DH5	Ant1	2402	1.1934	2401.4141	2402.6075	---	---
		2441	1.1871	2440.4168	2441.6039	---	---
		2480	1.1889	2479.4155	2480.6044	---	---

Test Graphs

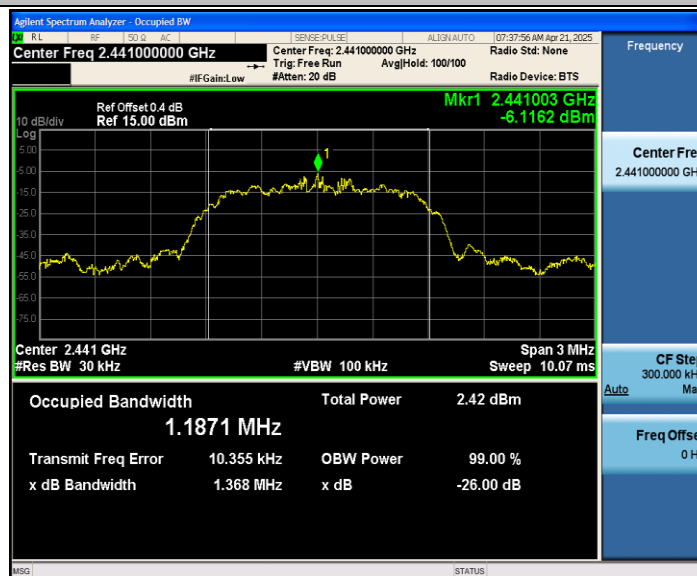




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_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	-0.04	≤20.97	PASS
		2441	-0.28	≤20.97	PASS
		2480	-0.36	≤20.97	PASS
2DH5	Ant1	2402	-0.86	≤20.97	PASS
		2441	-1.10	≤20.97	PASS
		2480	-1.17	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.948	PASS
2DH5	Ant1	Hop	1.164	≥ 0.880	PASS

Test Graphs

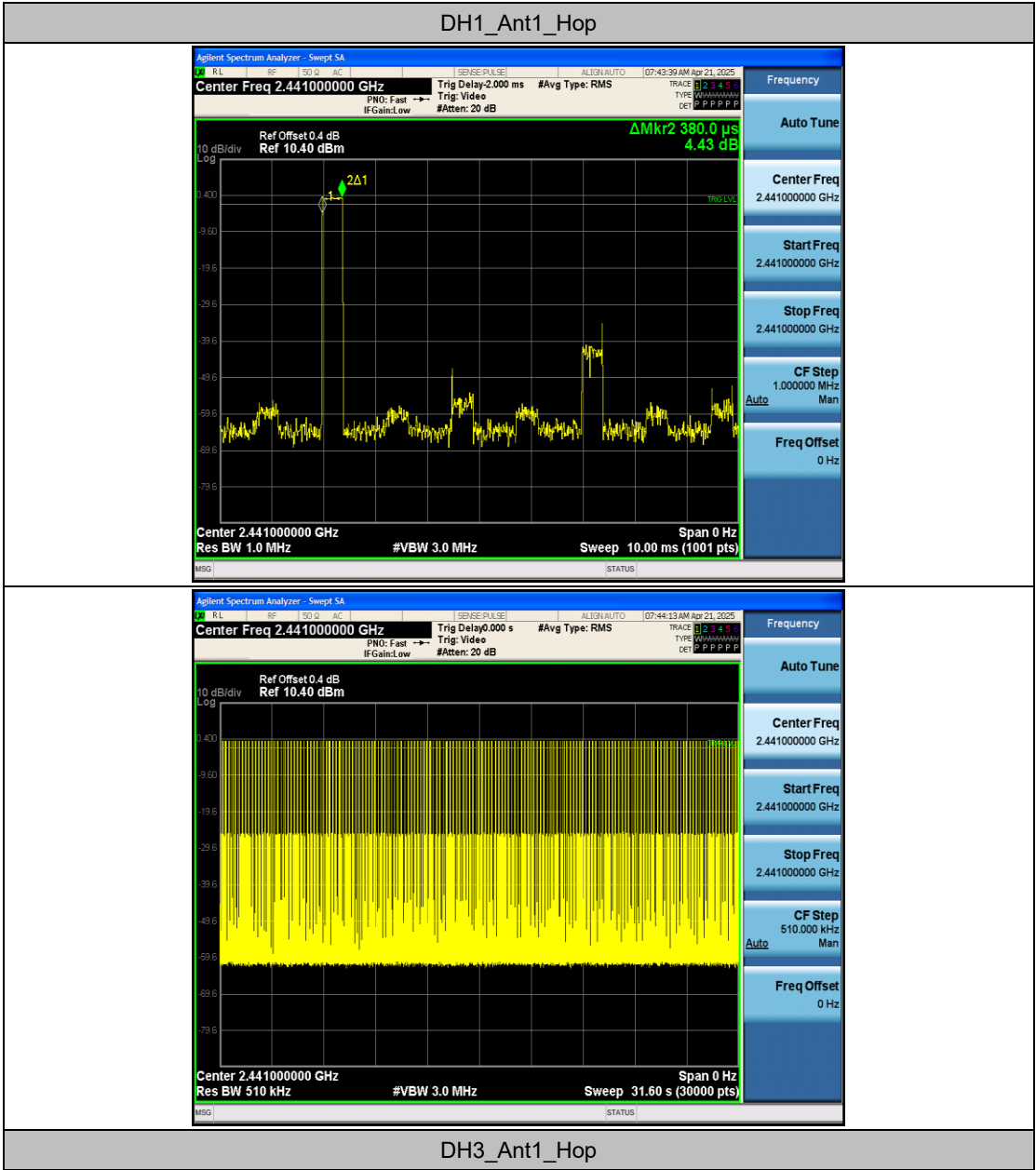


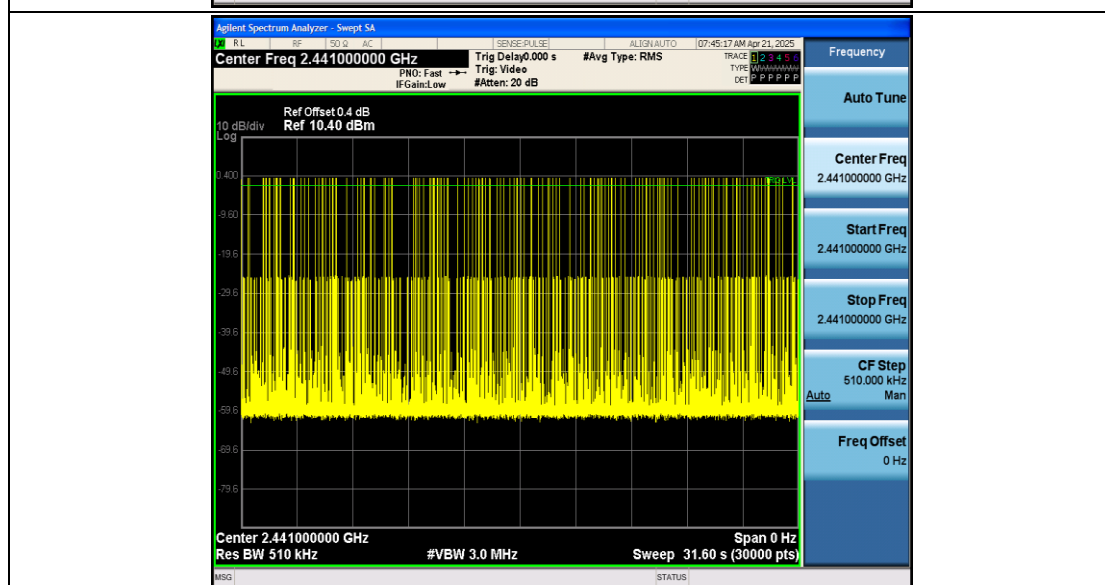
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	319	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.650	151	0.249	≤0.4	PASS
DH5	Ant1	Hop	2.890	103	0.298	≤0.4	PASS
2DH1	Ant1	Hop	0.400	316	0.126	≤0.4	PASS
2DH3	Ant1	Hop	1.650	157	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.900	115	0.334	≤0.4	PASS

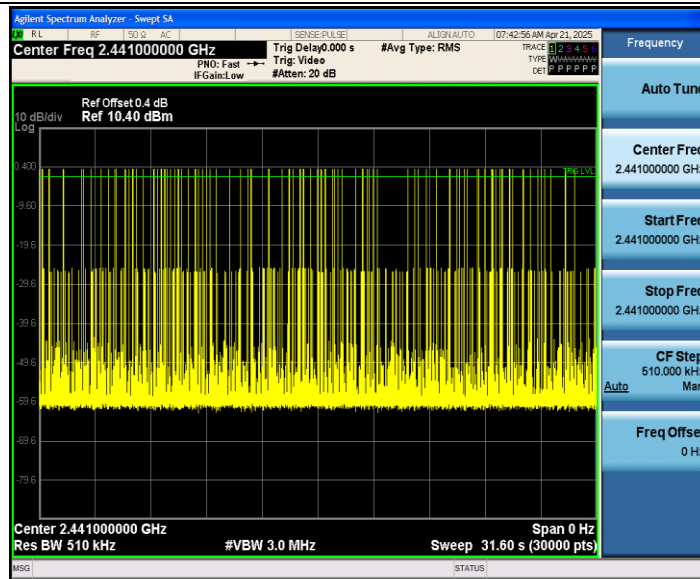
Test Graphs



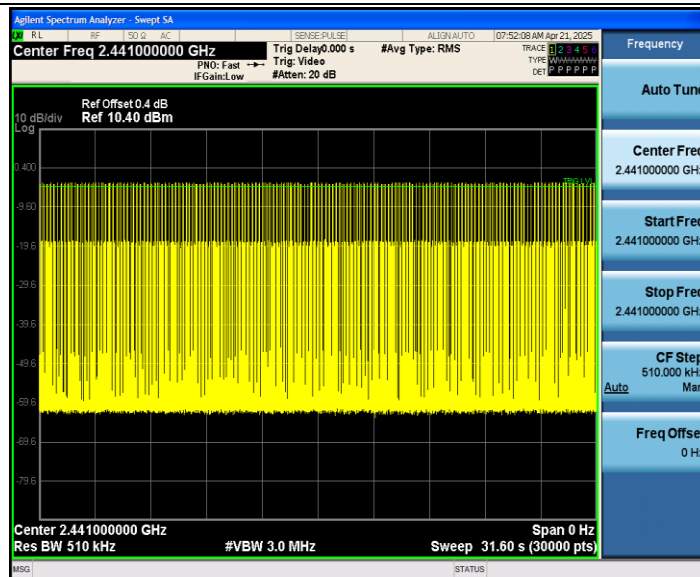
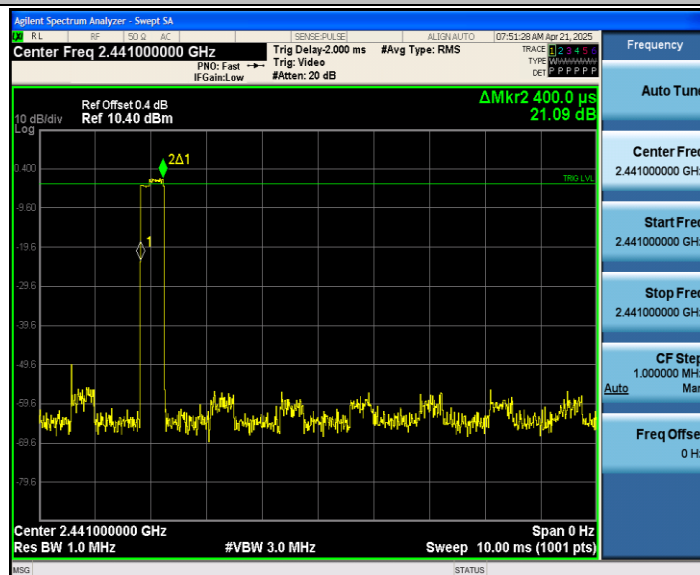


DH5_Ant1_Hop

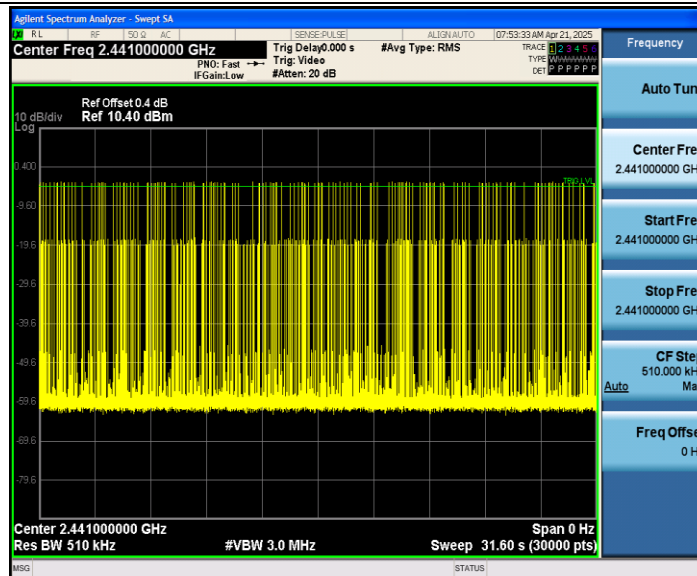
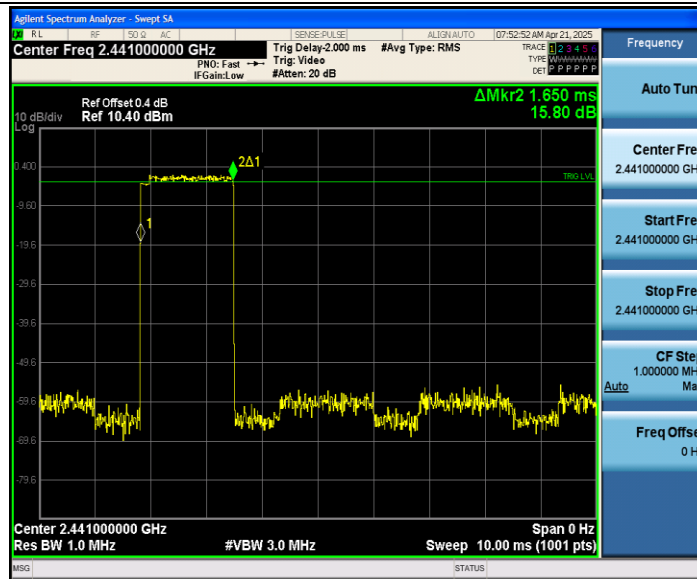




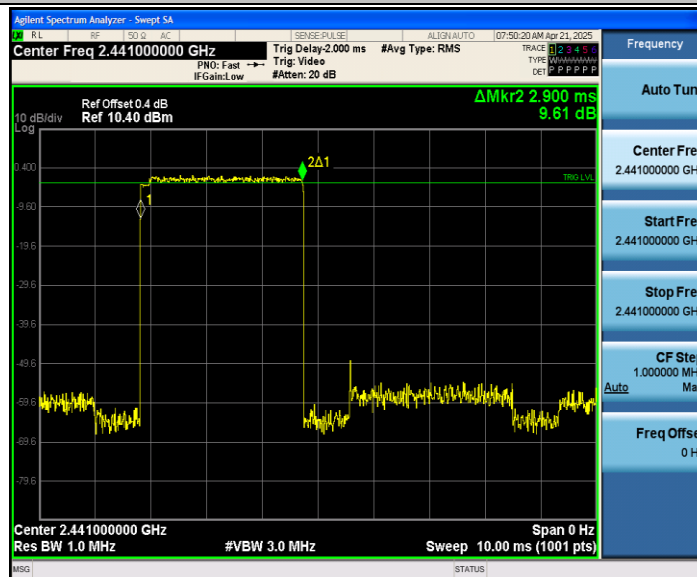
2DH1_Ant1_Hop

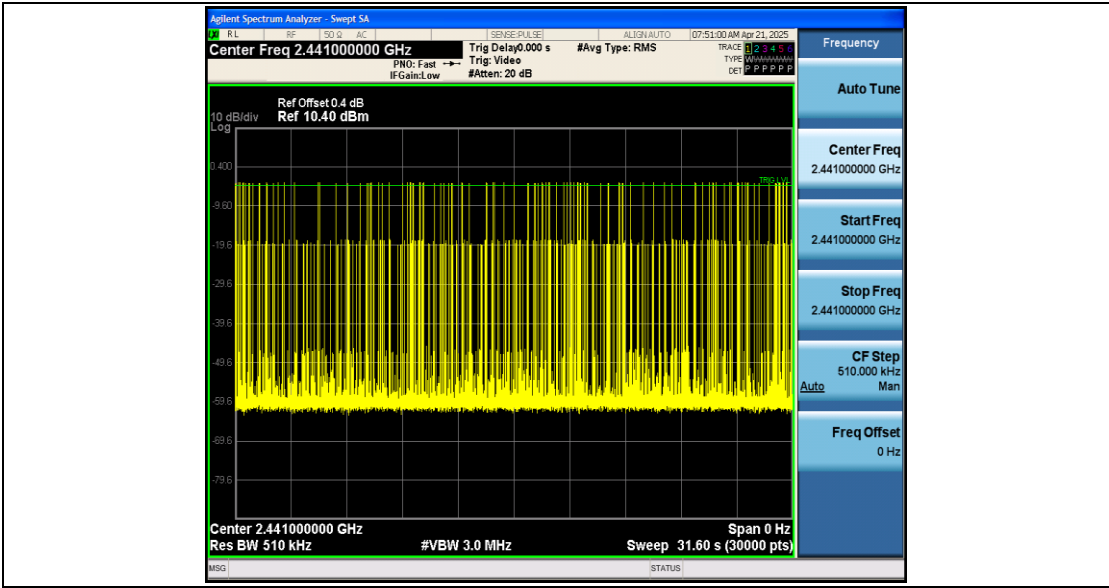


2DH3_Ant1_Hop



2DH5_Ant1_Hop



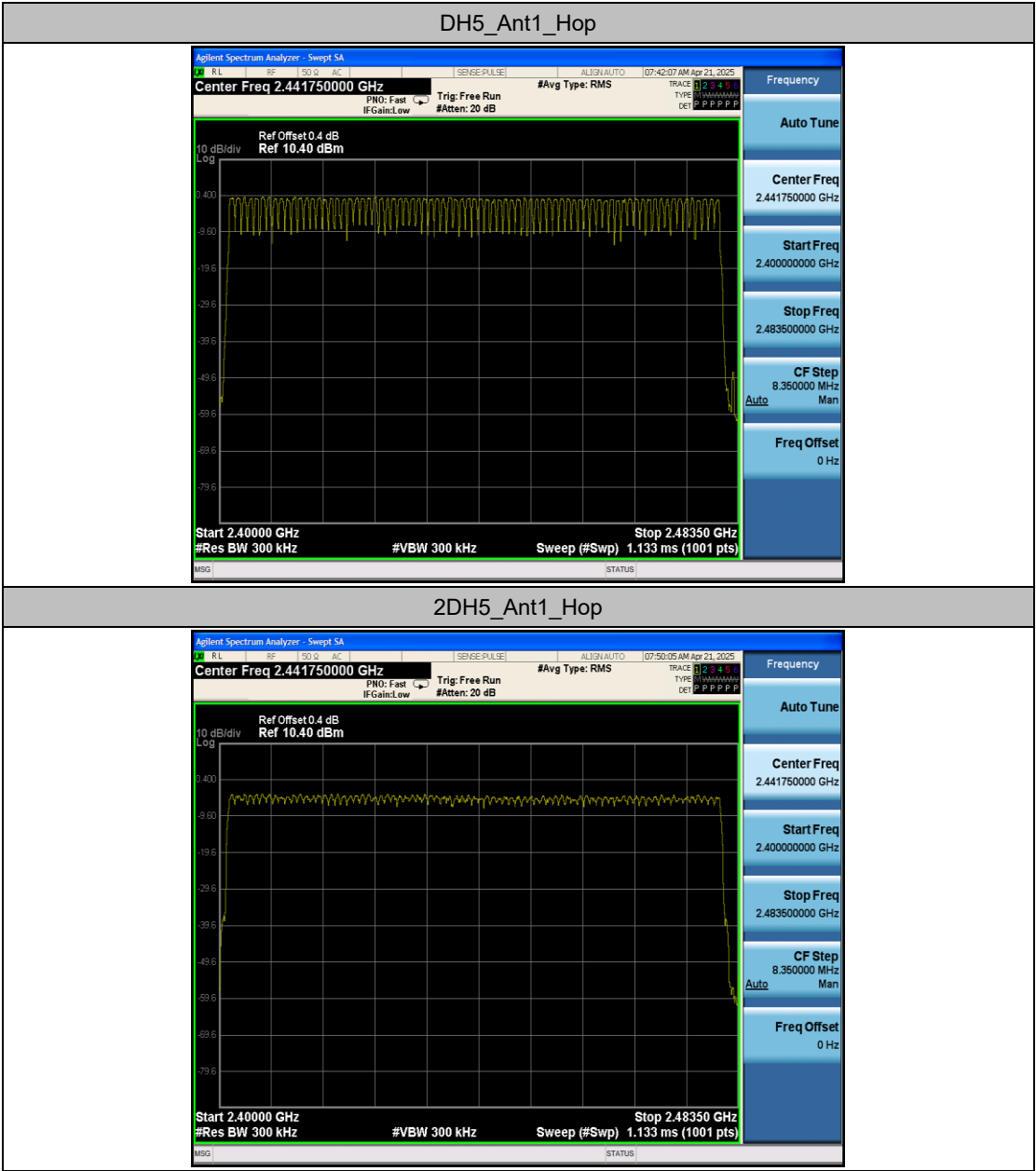


Appendix F: Number of hopping channels

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

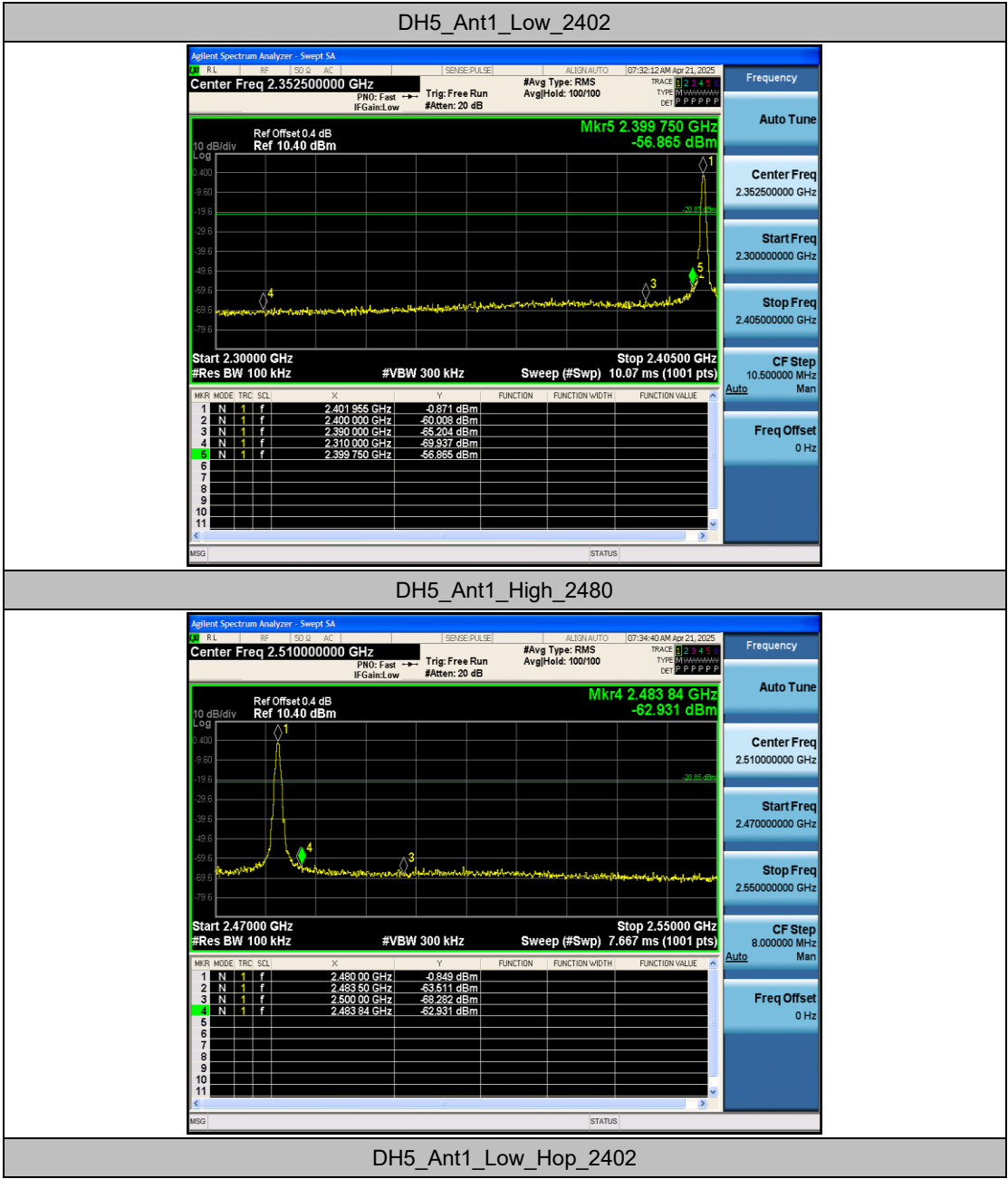


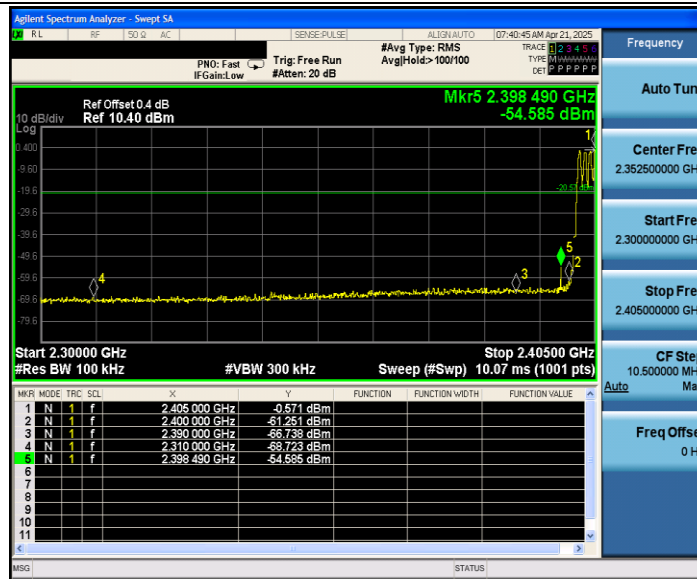
Appendix G: Band edge measurements

Test Result

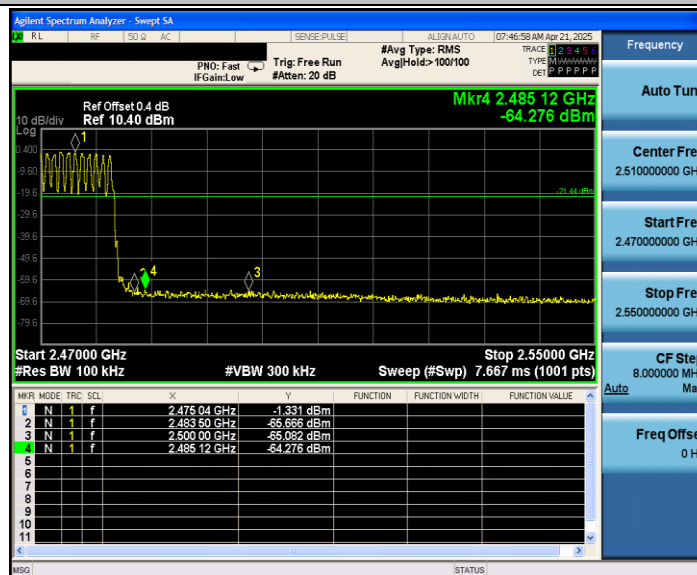
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.87	-56.87	≤-20.87	PASS
		High	2480	-0.85	-62.93	≤-20.85	PASS
		Low	Hop_2402	-0.57	-54.59	≤-20.57	PASS
		High	Hop_2480	-1.44	-64.28	≤-21.44	PASS
2DH5	Ant1	Low	2402	-4.53	-61.42	≤-24.53	PASS
		High	2480	-5.09	-63	≤-25.09	PASS
		Low	Hop_2402	-8.35	-62.93	≤-28.35	PASS
		High	Hop_2480	-4.47	-56.01	≤-24.47	PASS

Test Graphs

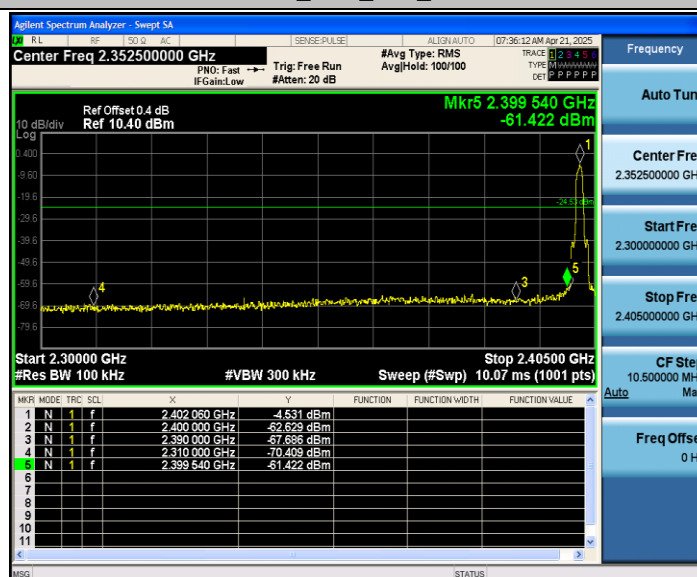




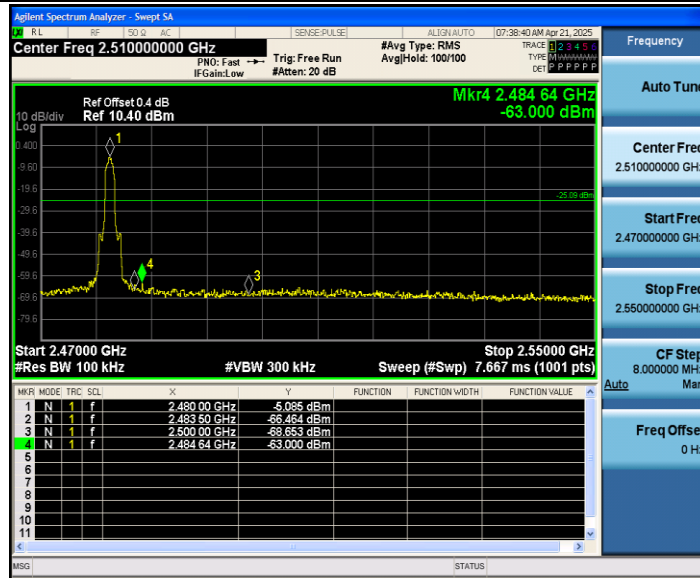
DH5_Ant1_High_Hop_2480



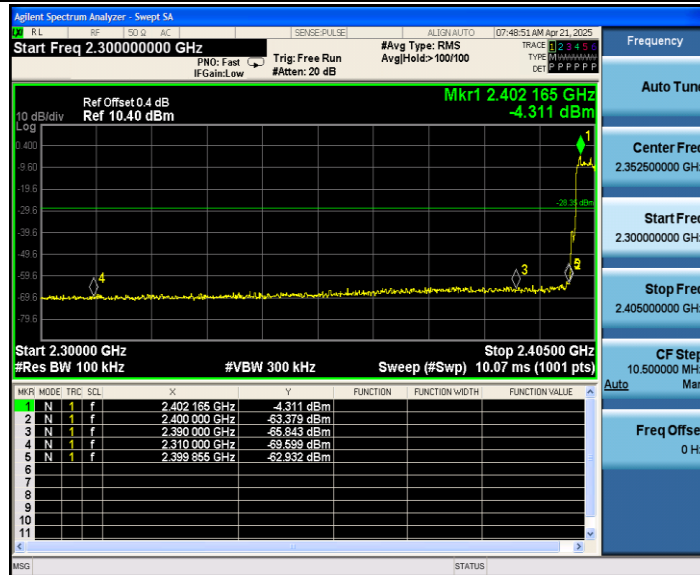
2DH5_Ant1_Low_2402



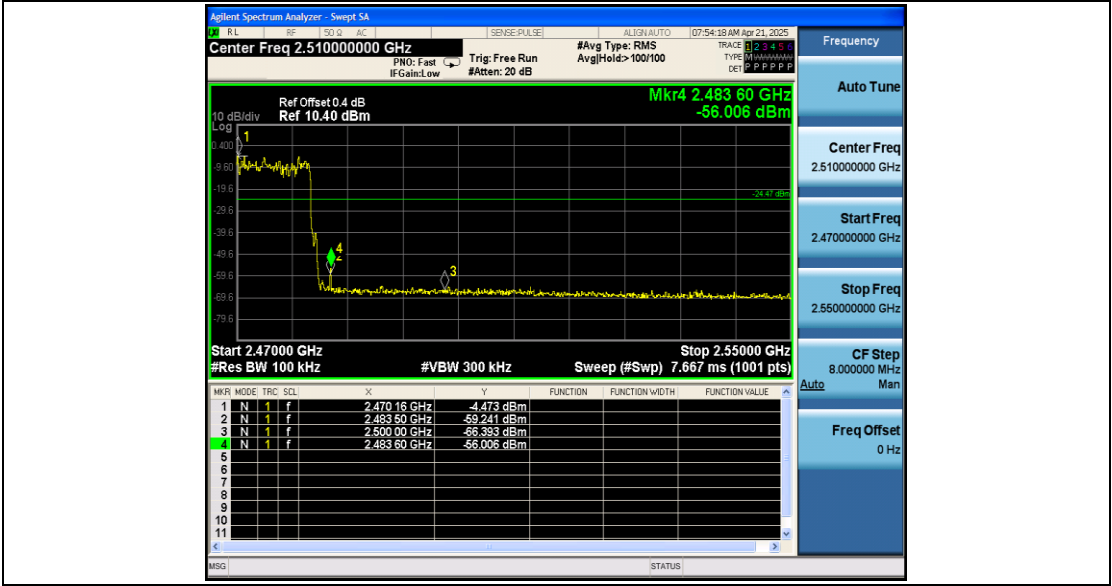
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

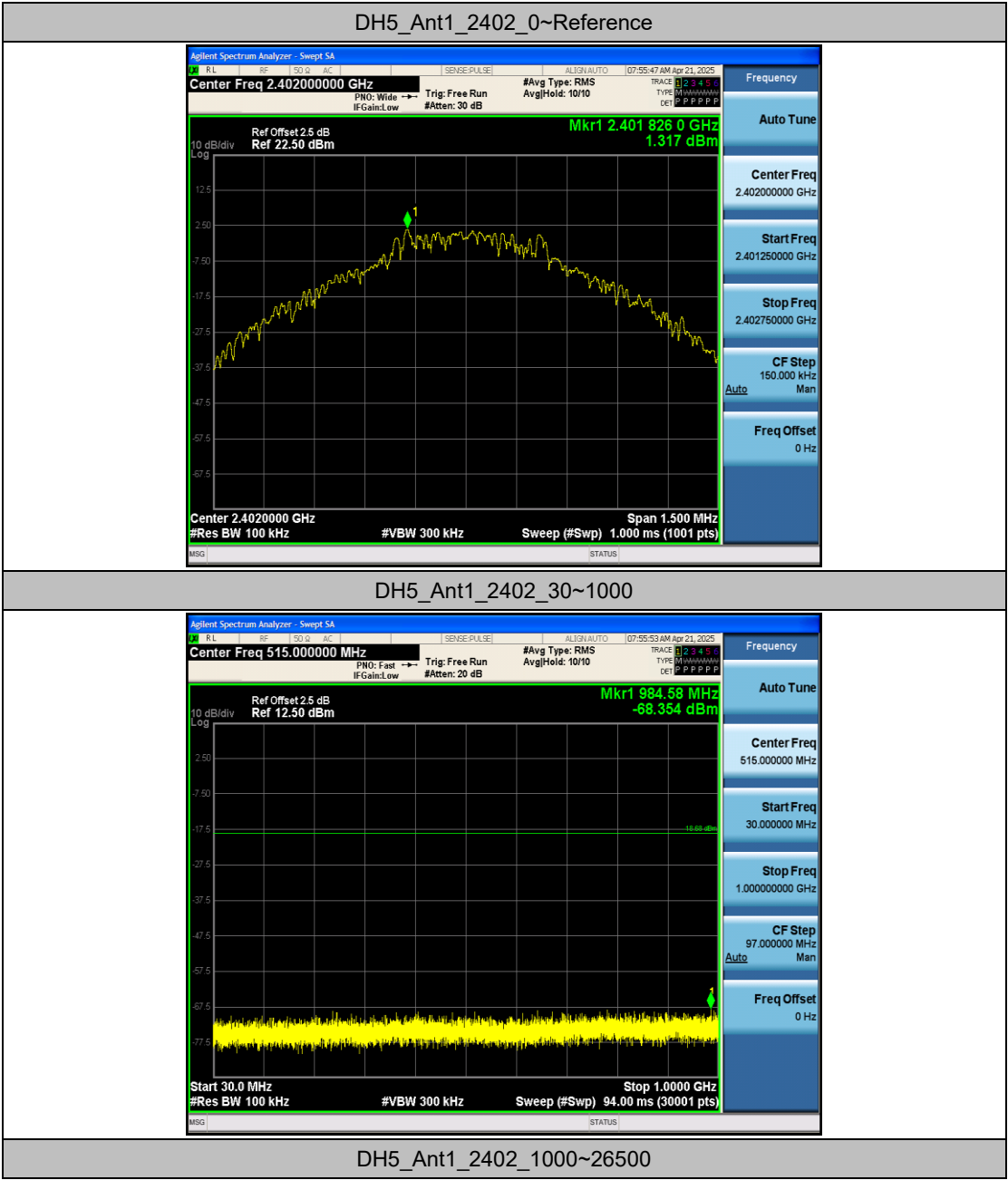


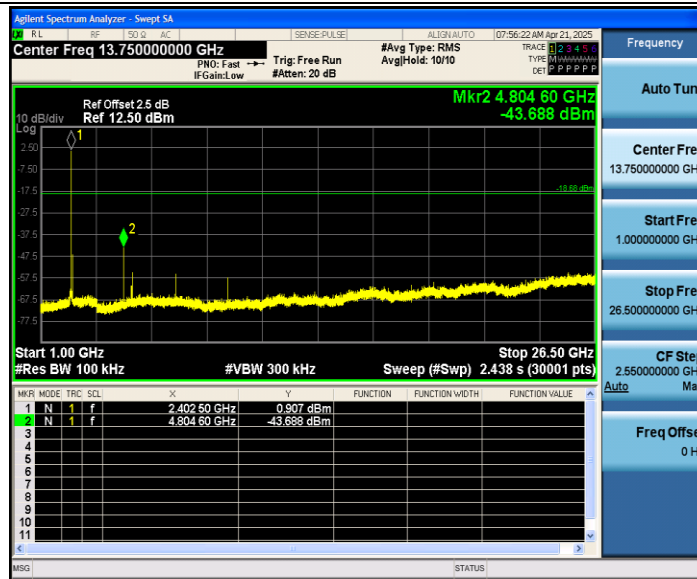
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.32	1.32	---	PASS
			30~1000	1.32	-68.35	≤-18.68	PASS
			1000~26500	1.32	-43.69	≤-18.68	PASS
		2441	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-68.44	≤-18.94	PASS
			1000~26500	1.06	-43.58	≤-18.94	PASS
		2480	Reference	0.79	0.79	---	PASS
			30~1000	0.79	-66.57	≤-19.21	PASS
			1000~26500	0.79	-44.12	≤-19.21	PASS
2DH5	Ant1	2402	Reference	-2.91	-2.91	---	PASS
			30~1000	-2.91	-68.09	≤-22.91	PASS
			1000~26500	-2.91	-47.49	≤-22.91	PASS
		2441	Reference	-4.85	-4.85	---	PASS
			30~1000	-4.85	-67.73	≤-24.85	PASS
			1000~26500	-4.85	-49.02	≤-24.85	PASS
		2480	Reference	-5.10	-5.10	---	PASS
			30~1000	-5.10	-67.36	≤-25.1	PASS
			1000~26500	-5.10	-48.21	≤-25.1	PASS

Test Graphs

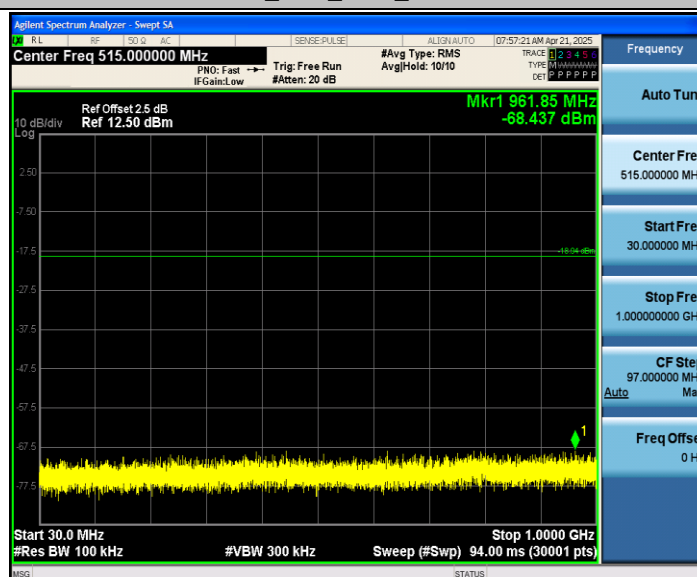




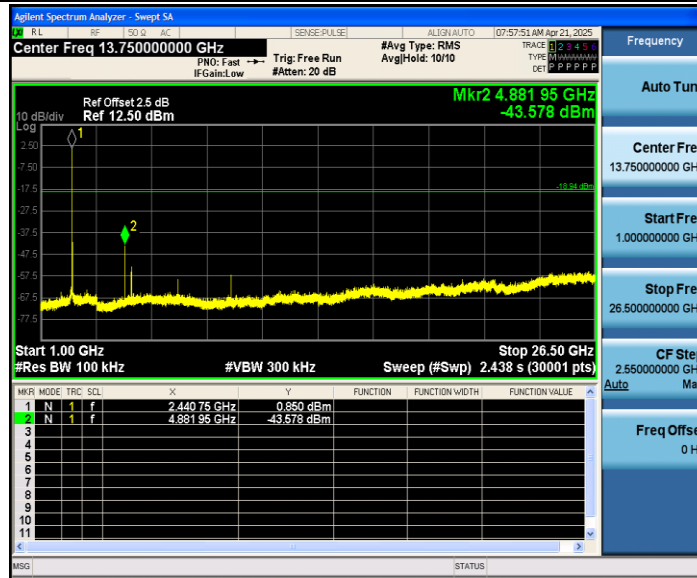
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



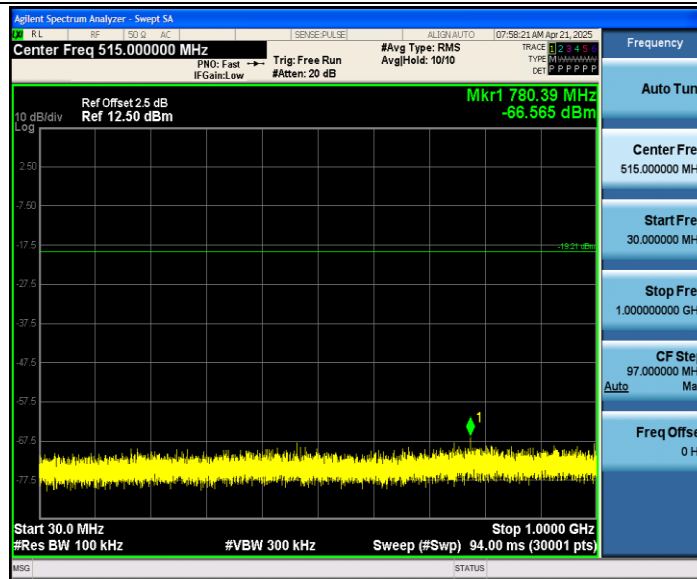
DH5_Ant1_2441_1000~26500



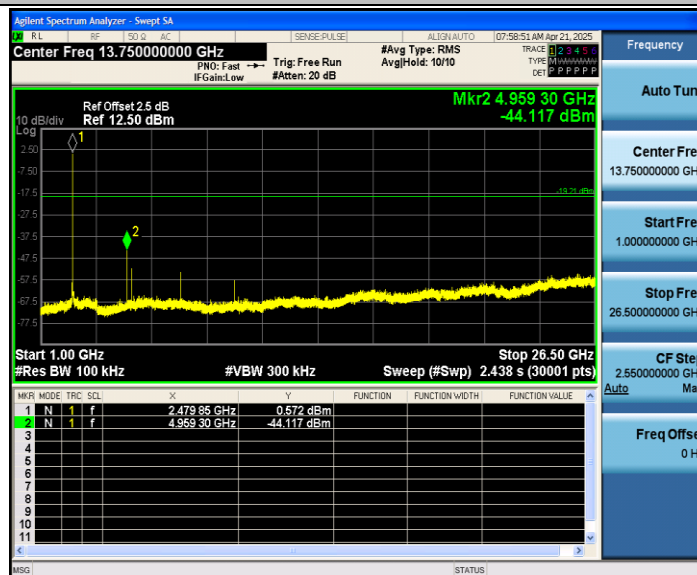
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



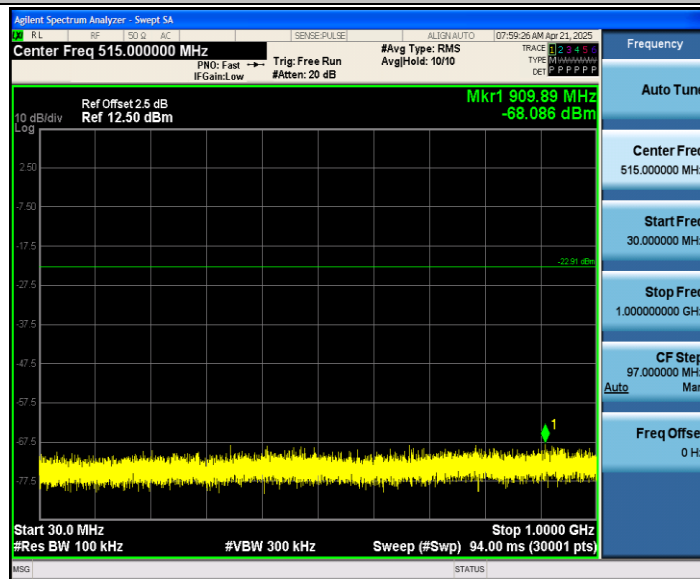
DH5_Ant1_2480_1000~26500



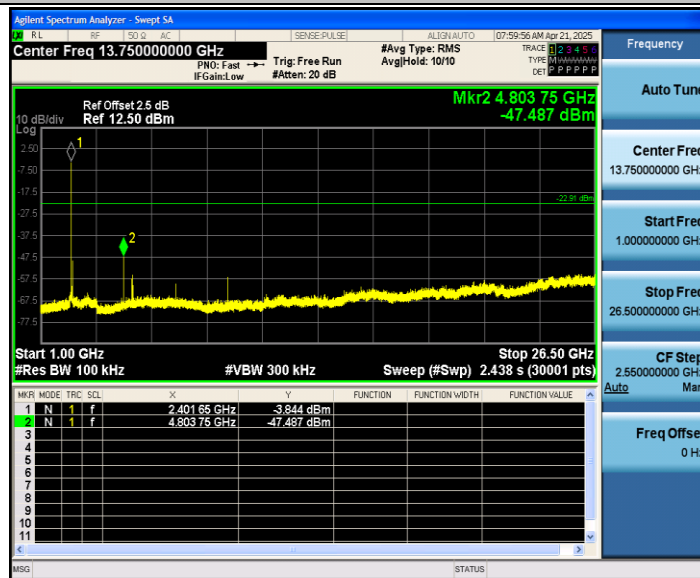
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



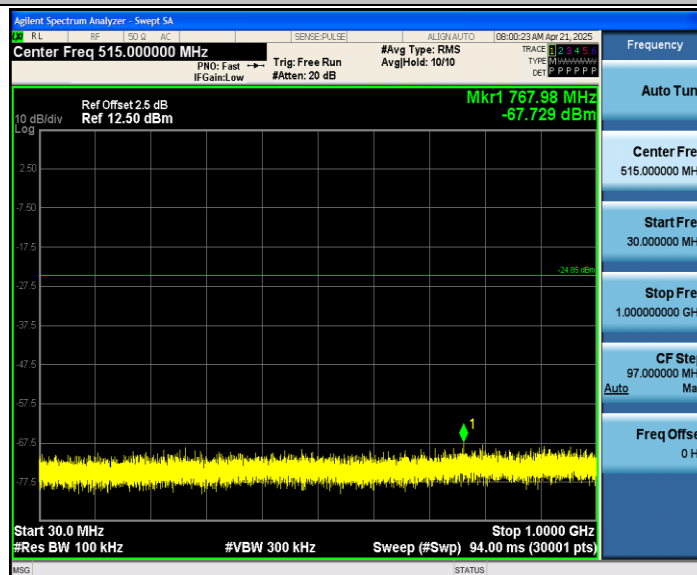
2DH5_Ant1_2402_1000~26500



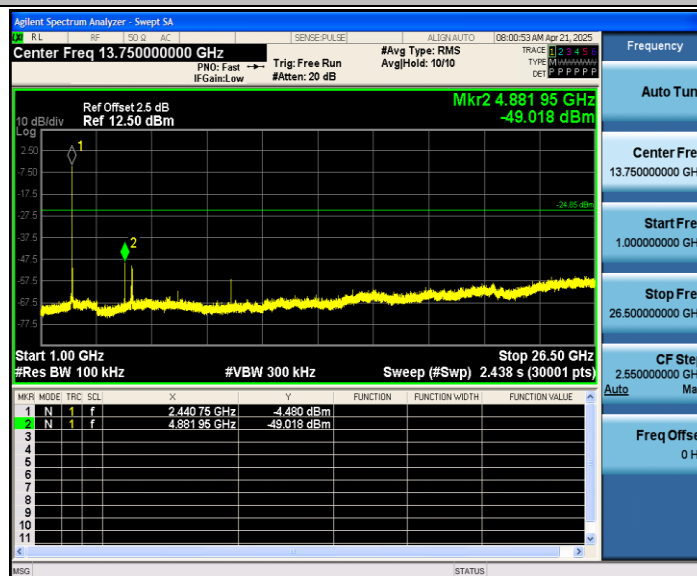
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



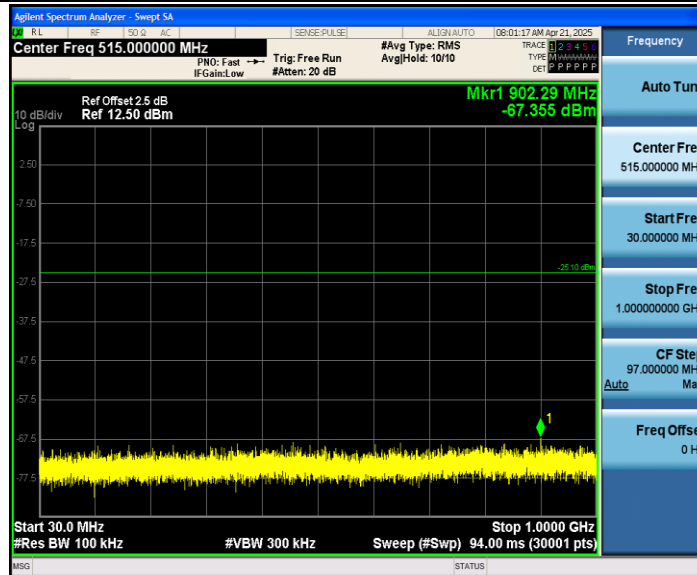
2DH5_Ant1_2441_1000~26500



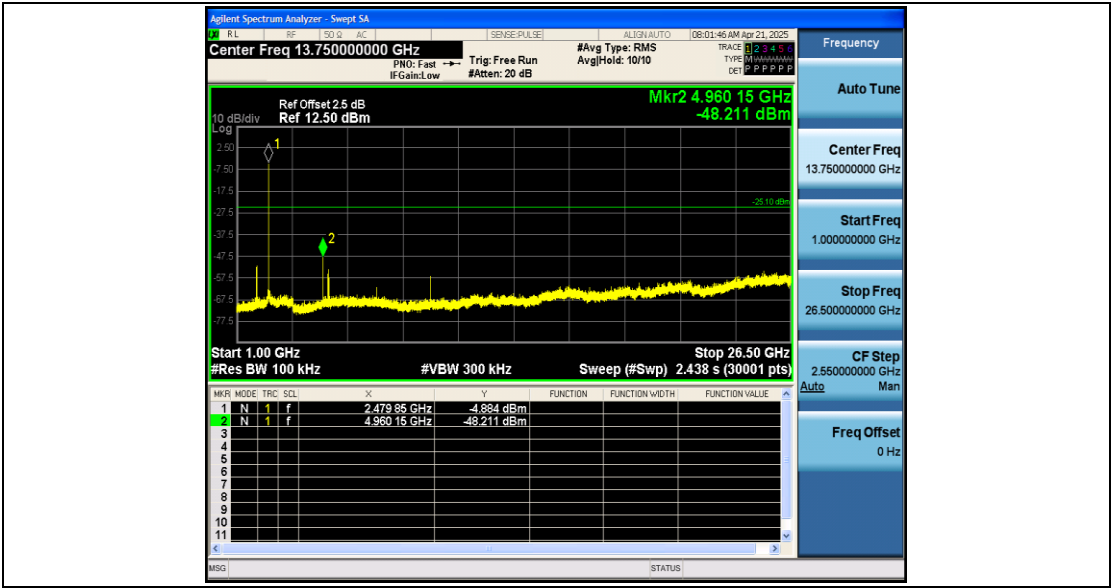
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

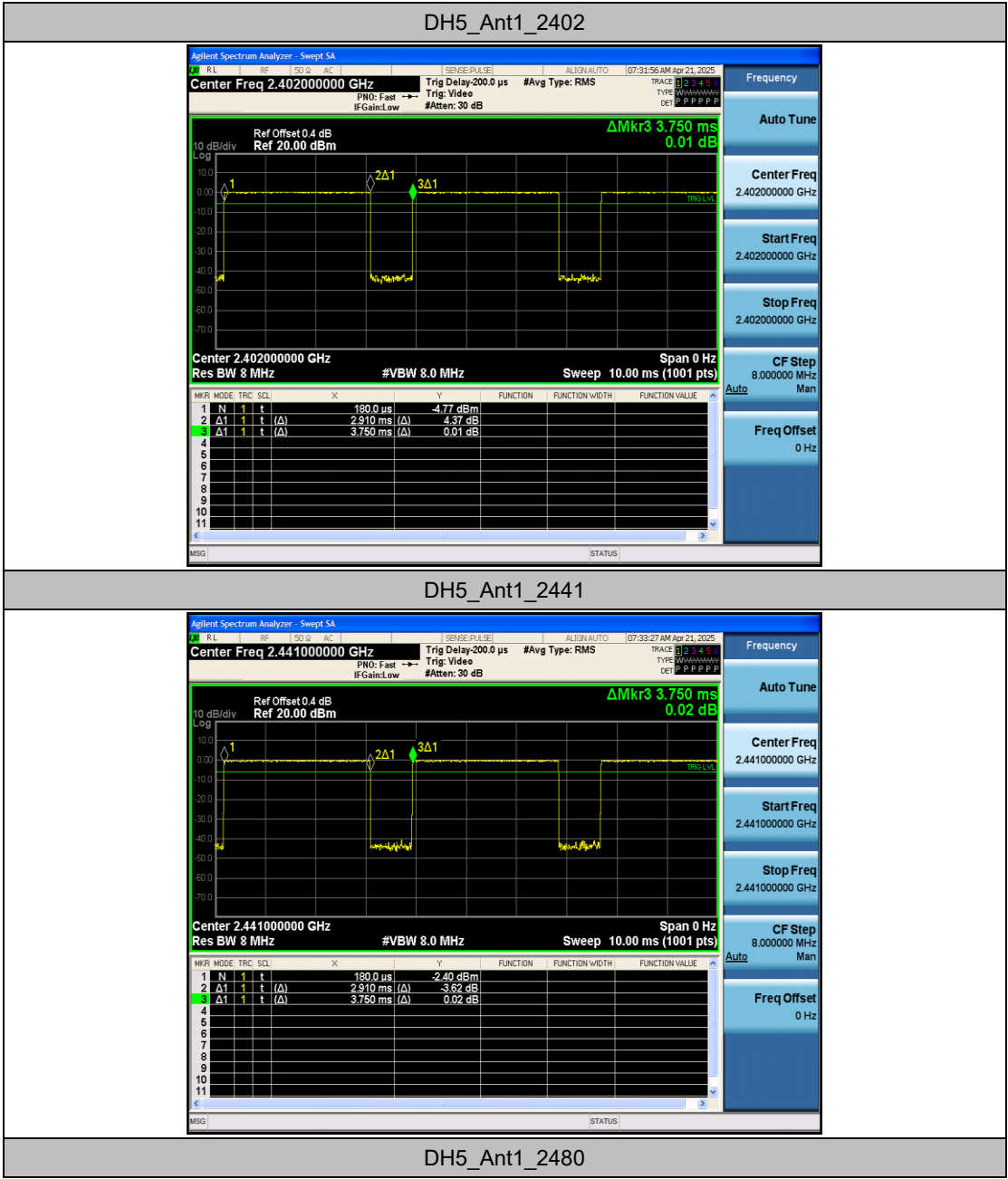


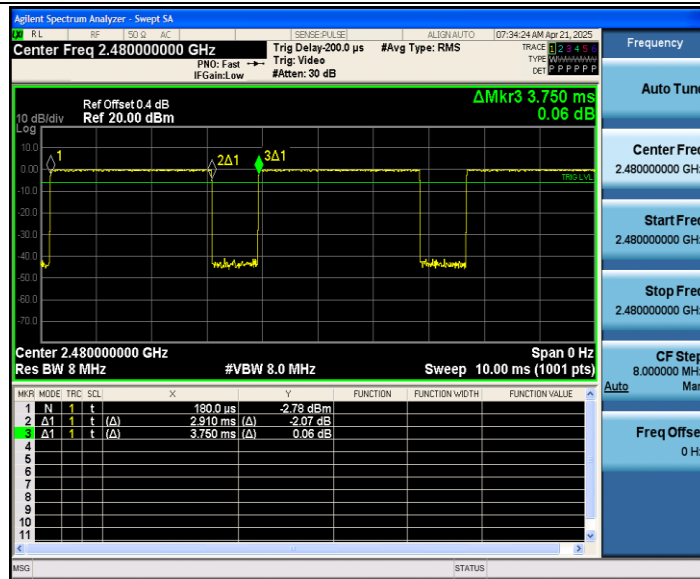
Appendix I: Duty Cycle

Test Result

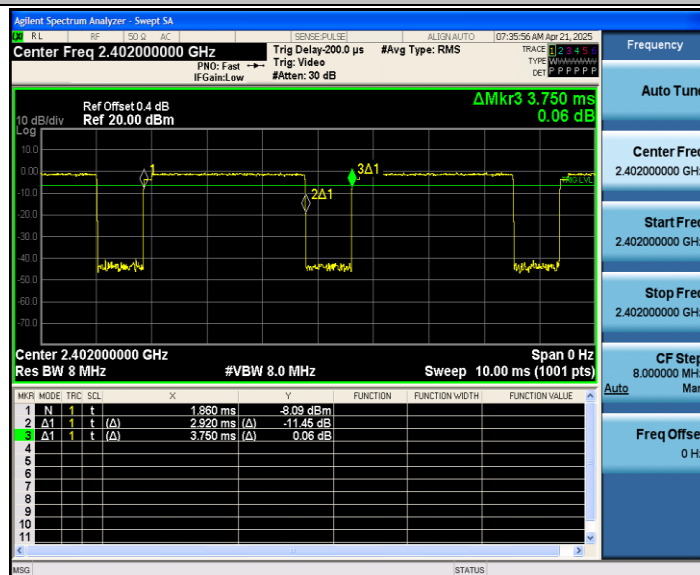
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---

Test Graphs

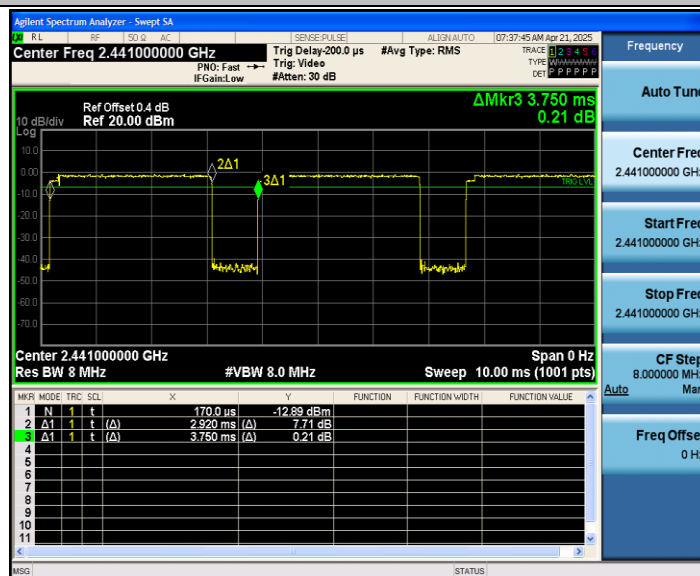




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

