

FCC Appendix RF Test Data for BT

FCC ID : 2BEQZ-AI68

Company : Pingyang Sichuang Electronic Technology Co., Ltd

EUT : AiPrint

Model Number : AI68

Report No. : CTA26062500702

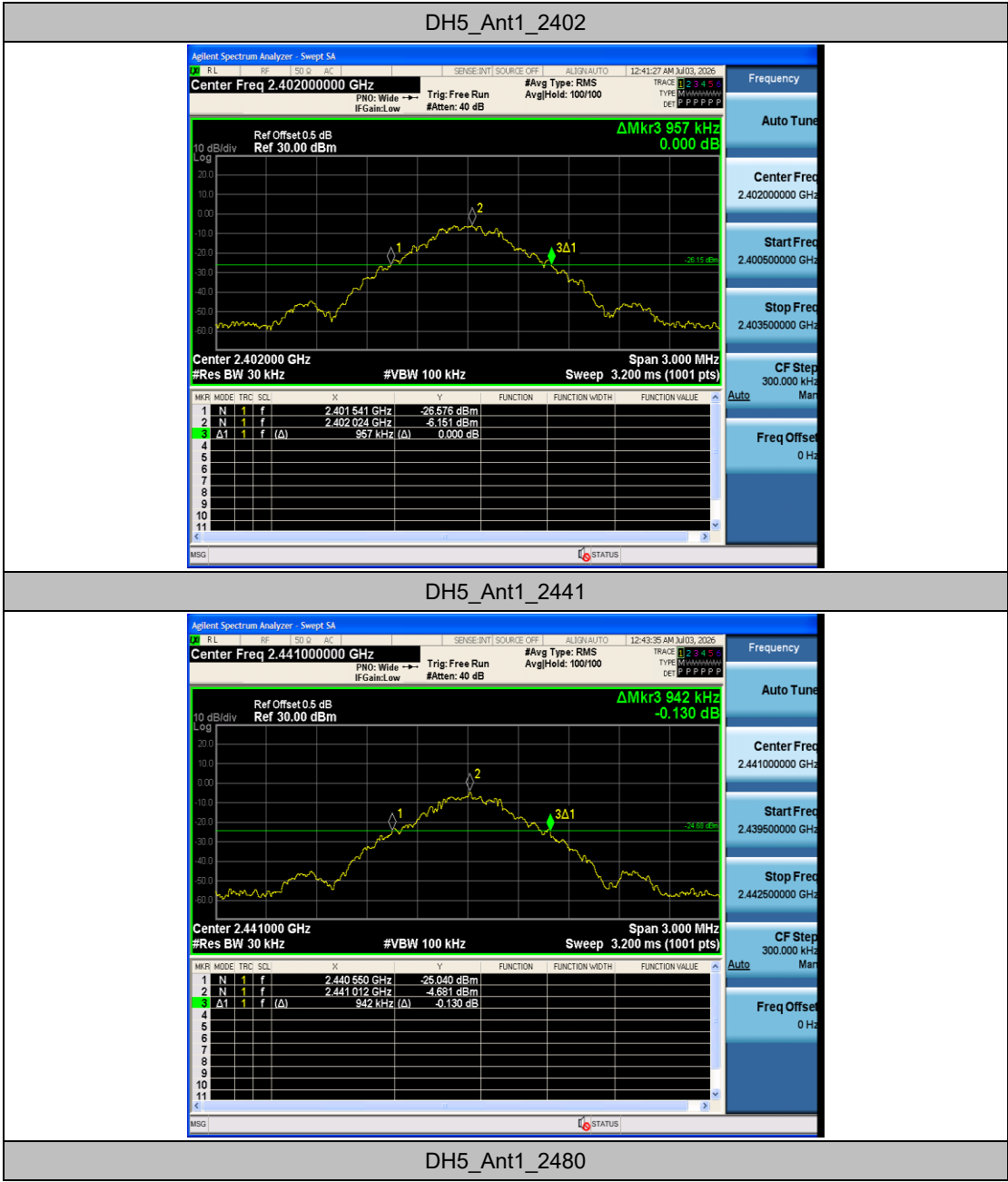
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.541	2402.498	---	---
		2441	0.942	2440.550	2441.492	---	---
		2480	0.954	2479.547	2480.501	---	---
2DH5	Ant1	2402	1.347	2401.334	2402.681	---	---
		2441	1.254	2440.400	2441.654	---	---
		2480	1.341	2479.337	2480.678	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

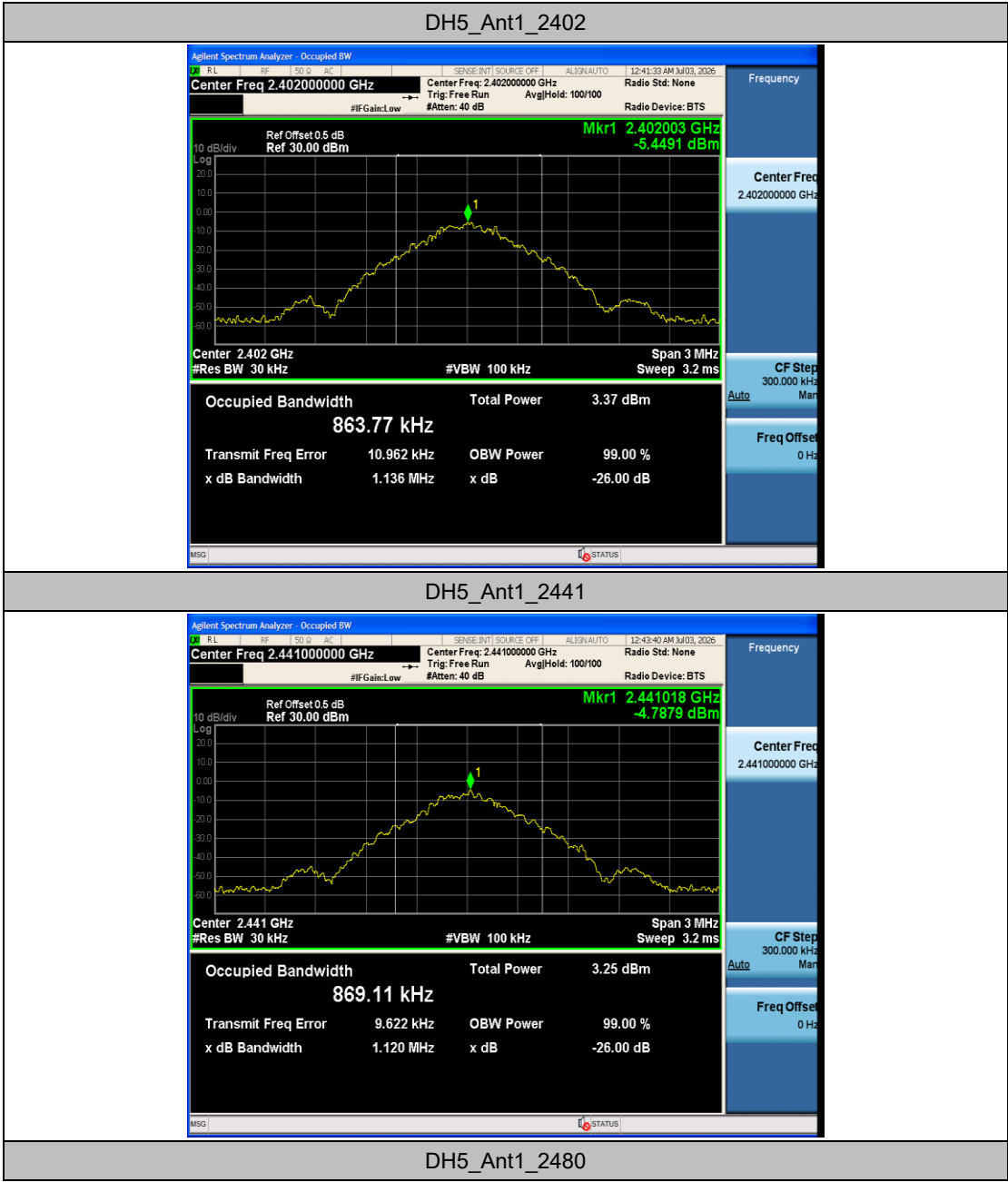


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86377	2401.5791	2402.4428	---	---
		2441	0.86911	2440.5751	2441.4442	---	---
		2480	0.85585	2479.5827	2480.4386	---	---
2DH5	Ant1	2402	1.1846	2401.4179	2402.6025	---	---
		2441	1.1908	2440.4144	2441.6052	---	---
		2480	1.1868	2479.4162	2480.6030	---	---

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	-3.13	≤20.97	PASS
		2441	-3.11	≤20.97	PASS
		2480	-3.38	≤20.97	PASS
2DH5	Ant1	2402	-0.49	≤20.97	PASS
		2441	-0.53	≤20.97	PASS
		2480	-0.76	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.002	≥ 0.957	PASS
2DH5	Ant1	Hop	1.056	≥ 0.898	PASS

Test Graphs

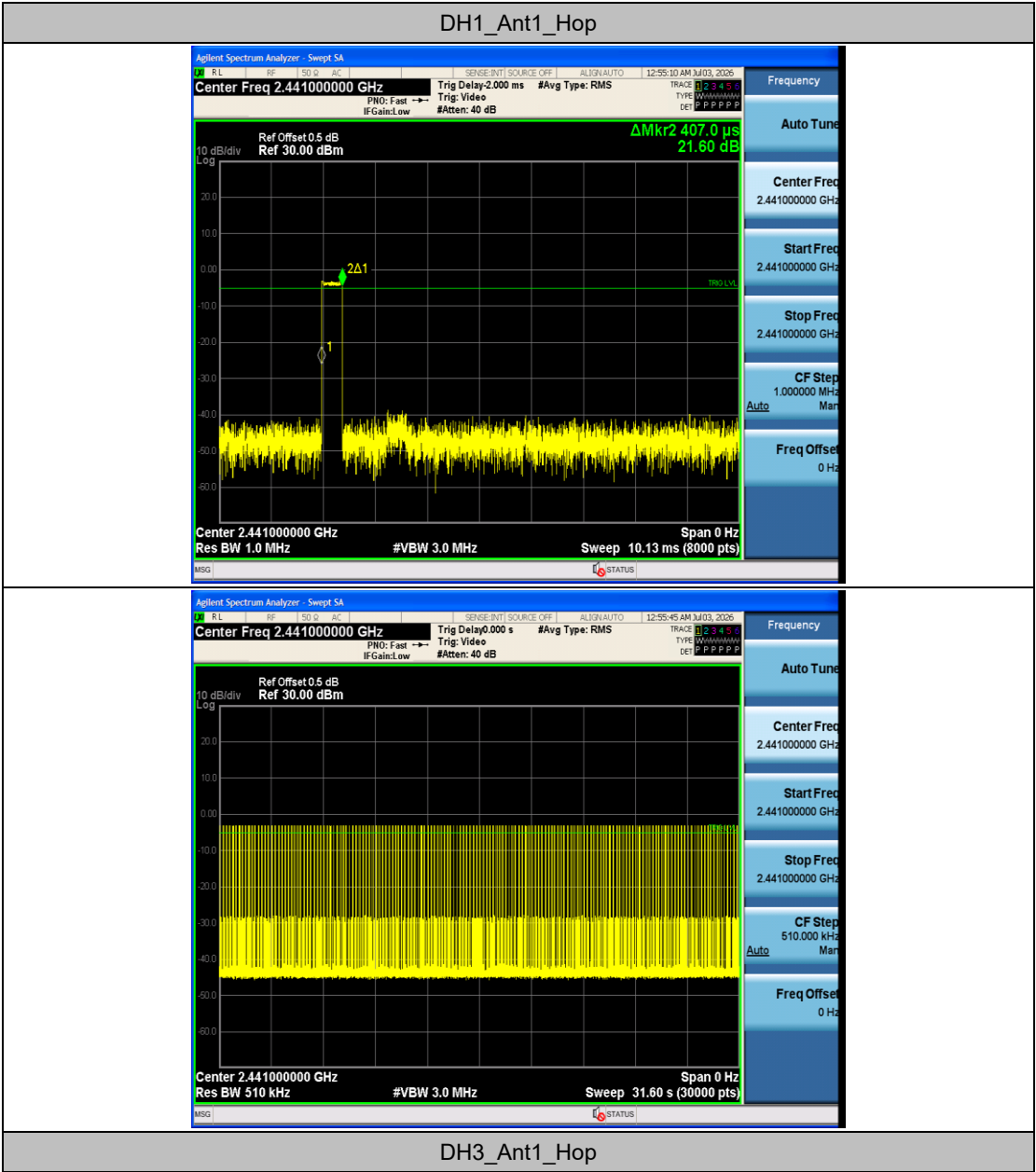


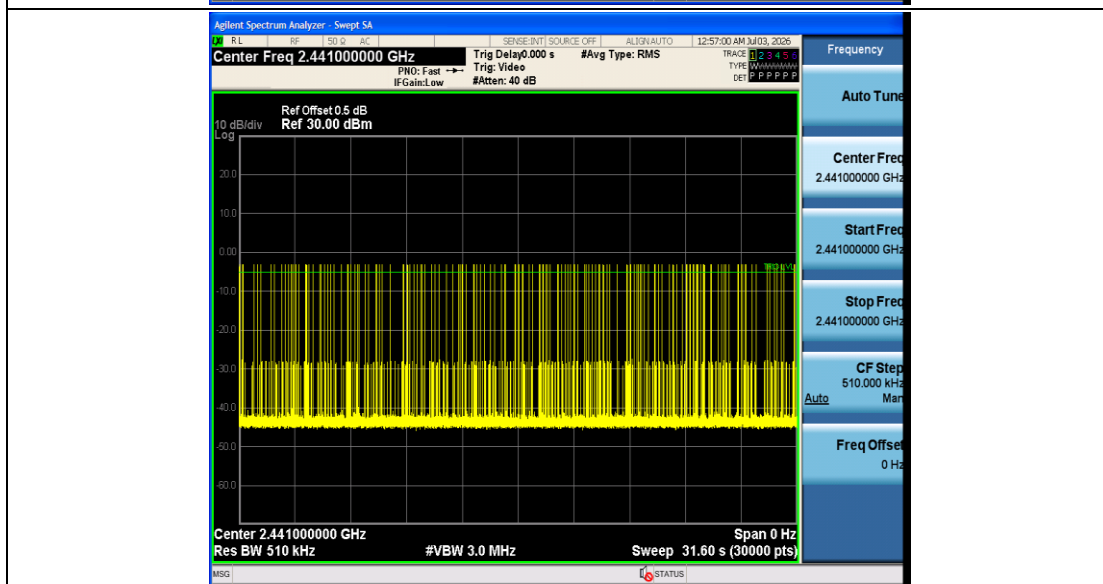
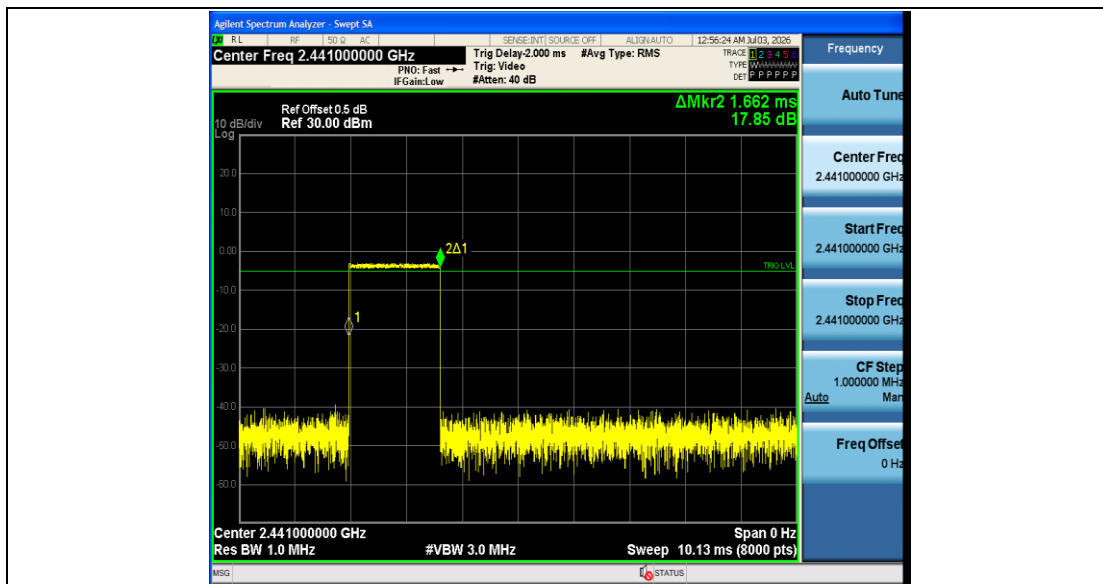
Appendix E: Time of occupancy

Test Result

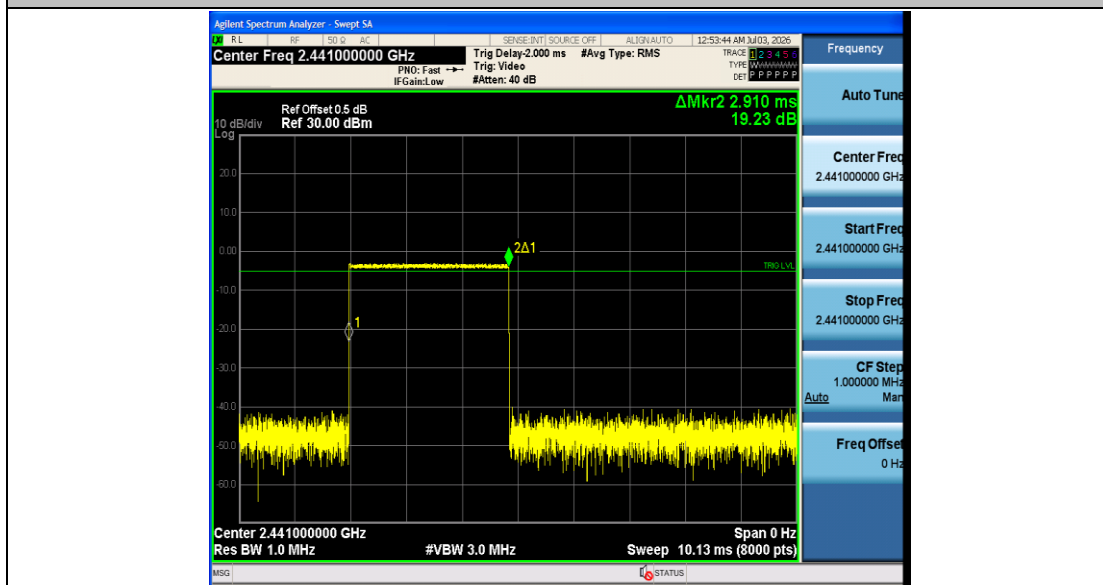
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	158	0.263	≤0.4	PASS
DH5	Ant1	Hop	2.910	109	0.317	≤0.4	PASS
2DH1	Ant1	Hop	0.415	315	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.667	162	0.27	≤0.4	PASS
2DH5	Ant1	Hop	2.916	97	0.283	≤0.4	PASS

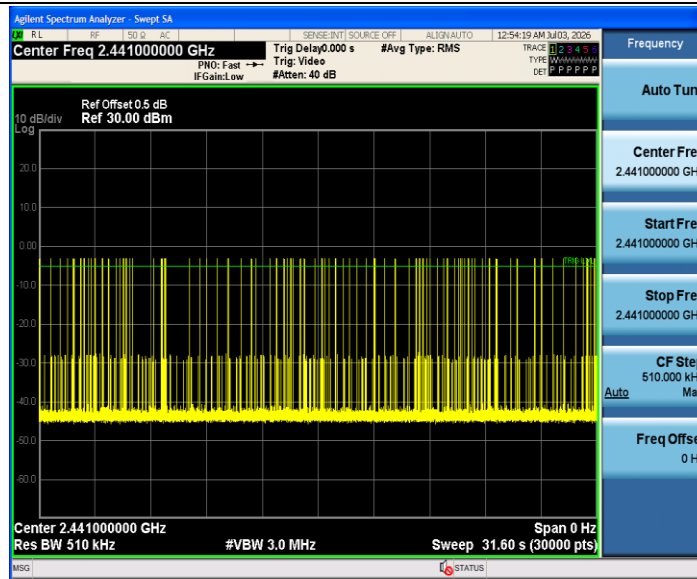
Test Graphs



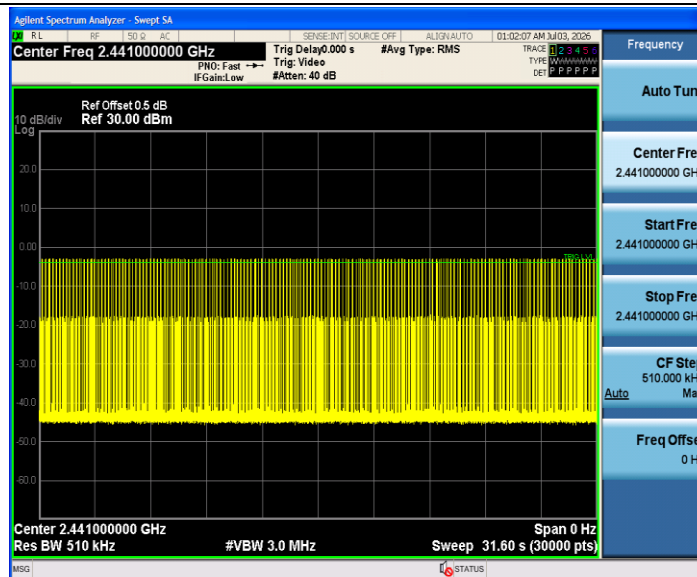
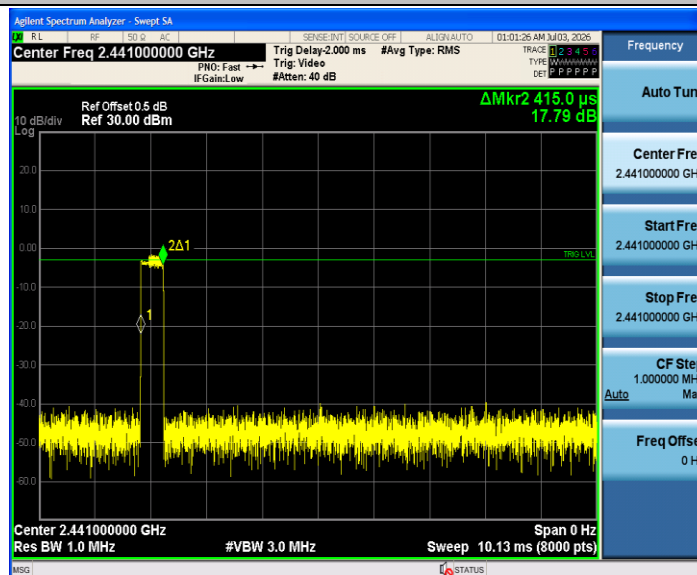


DH5_Ant1_Hop

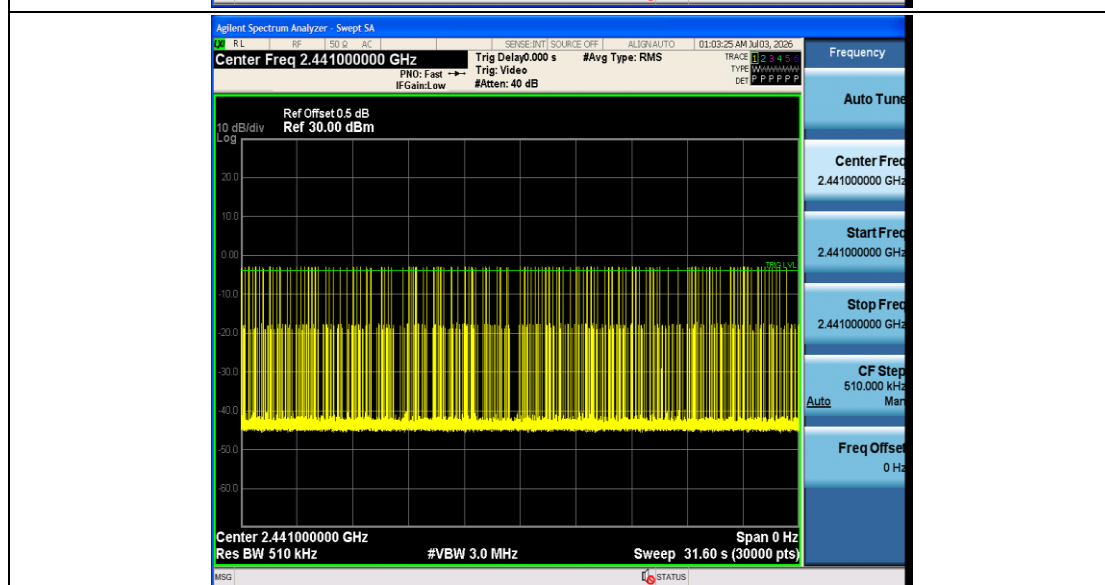
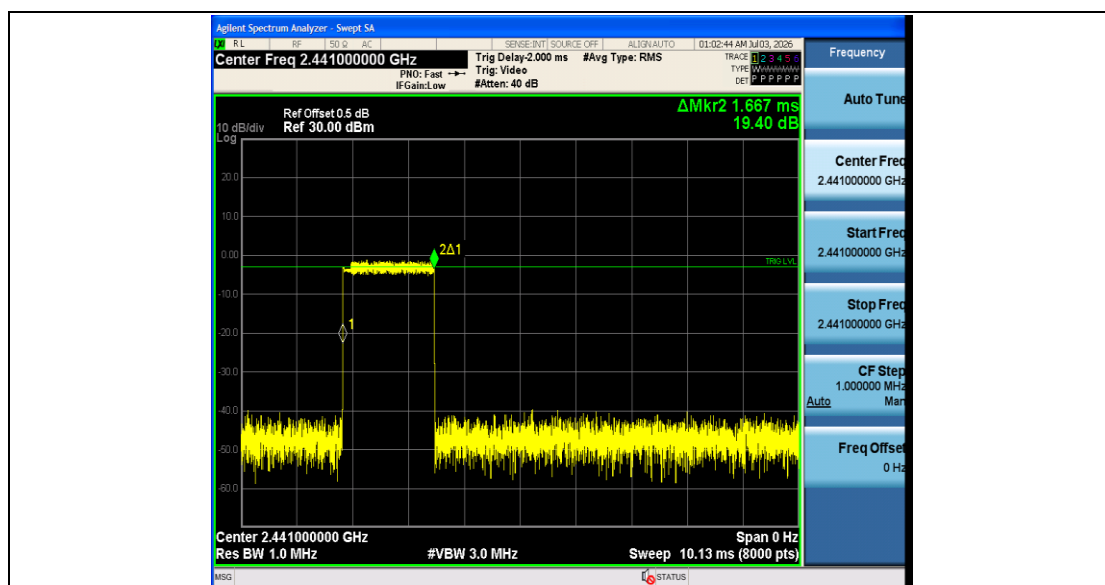




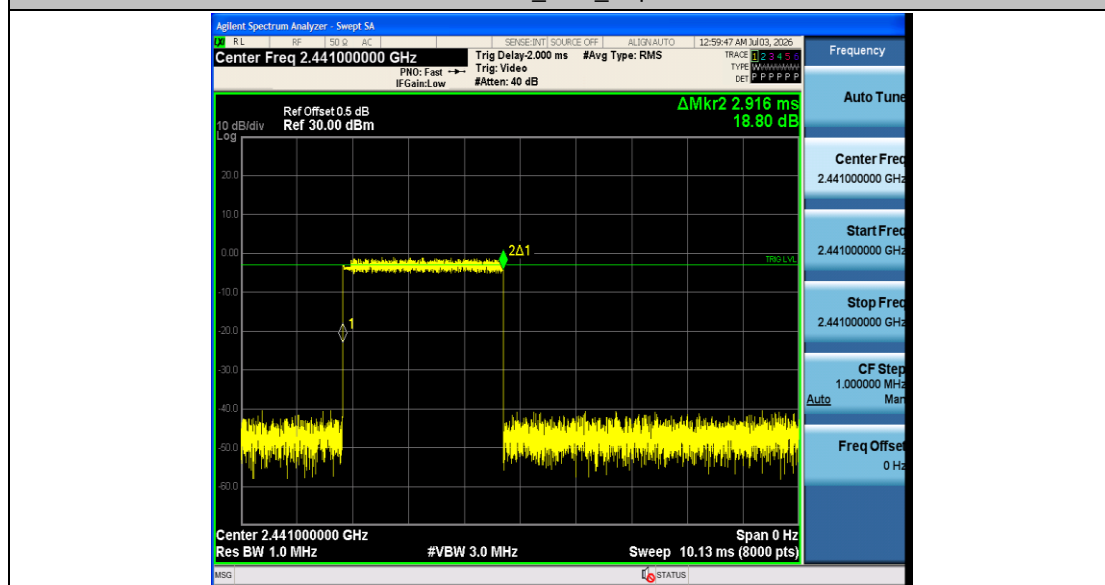
2DH1_Ant1_Hop

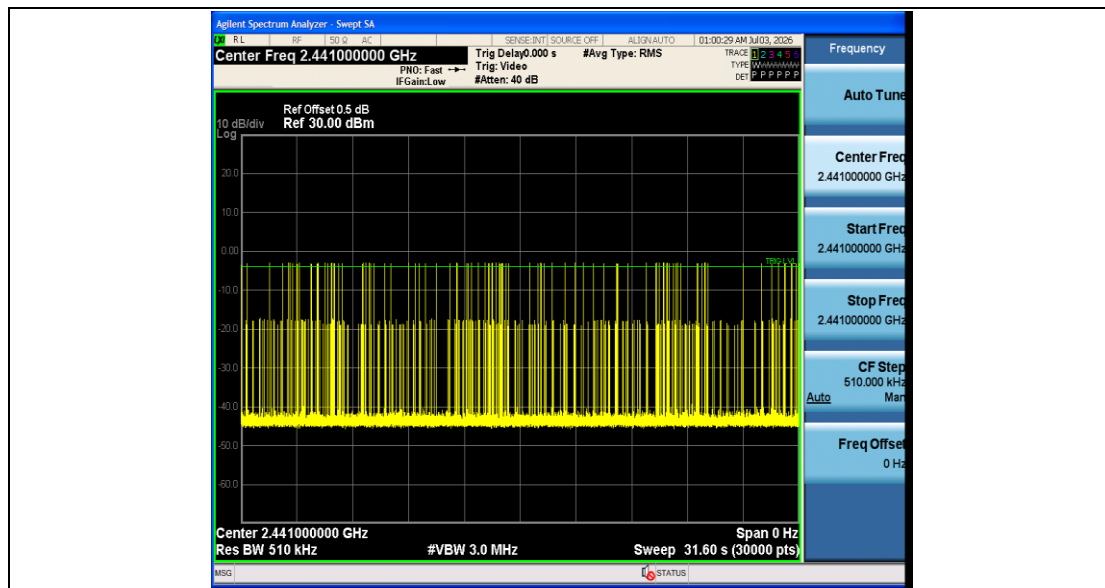


2DH3_Ant1_Hop



2DH5_Ant1_Hop



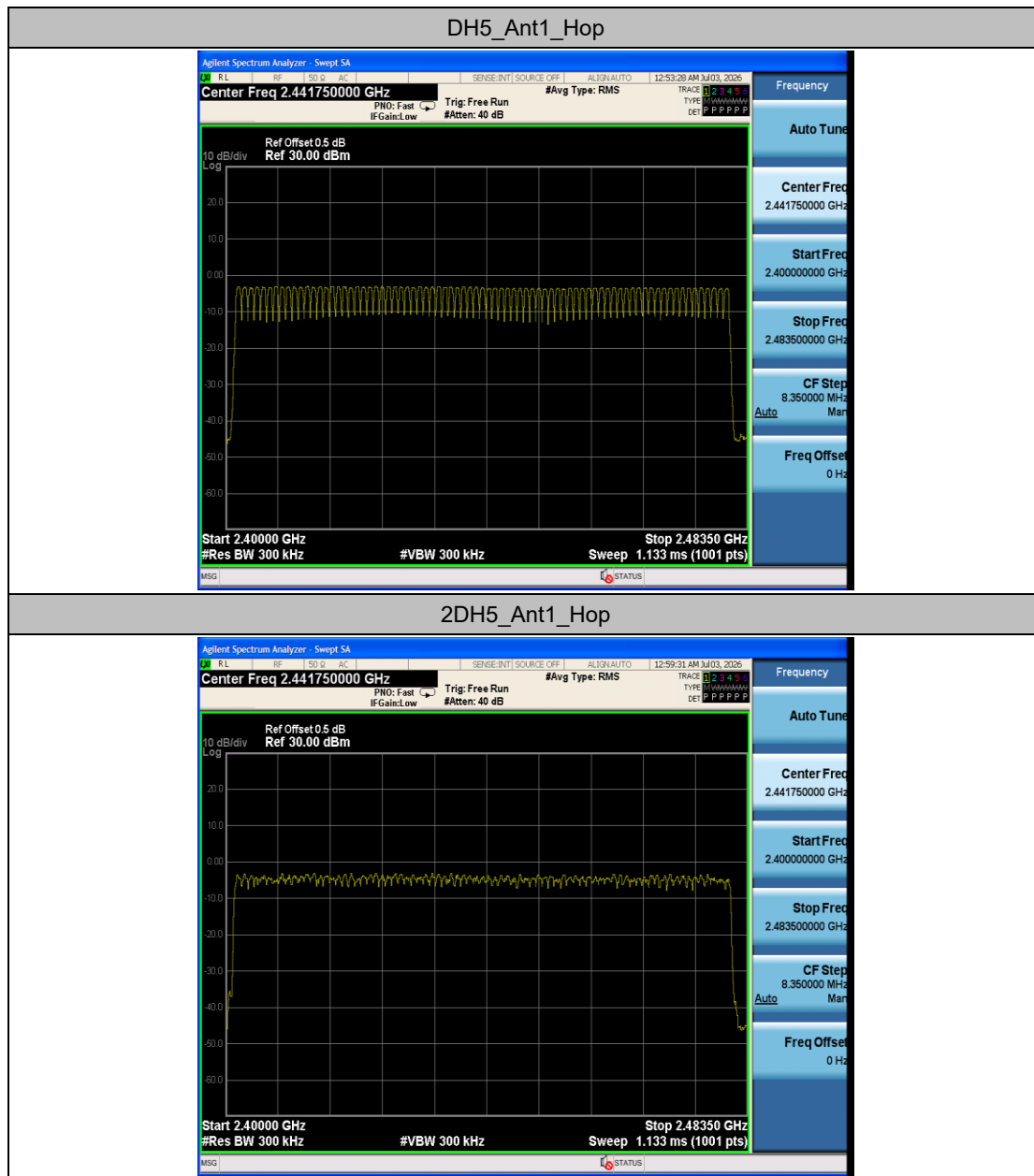


Appendix F: Number of hopping channels

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

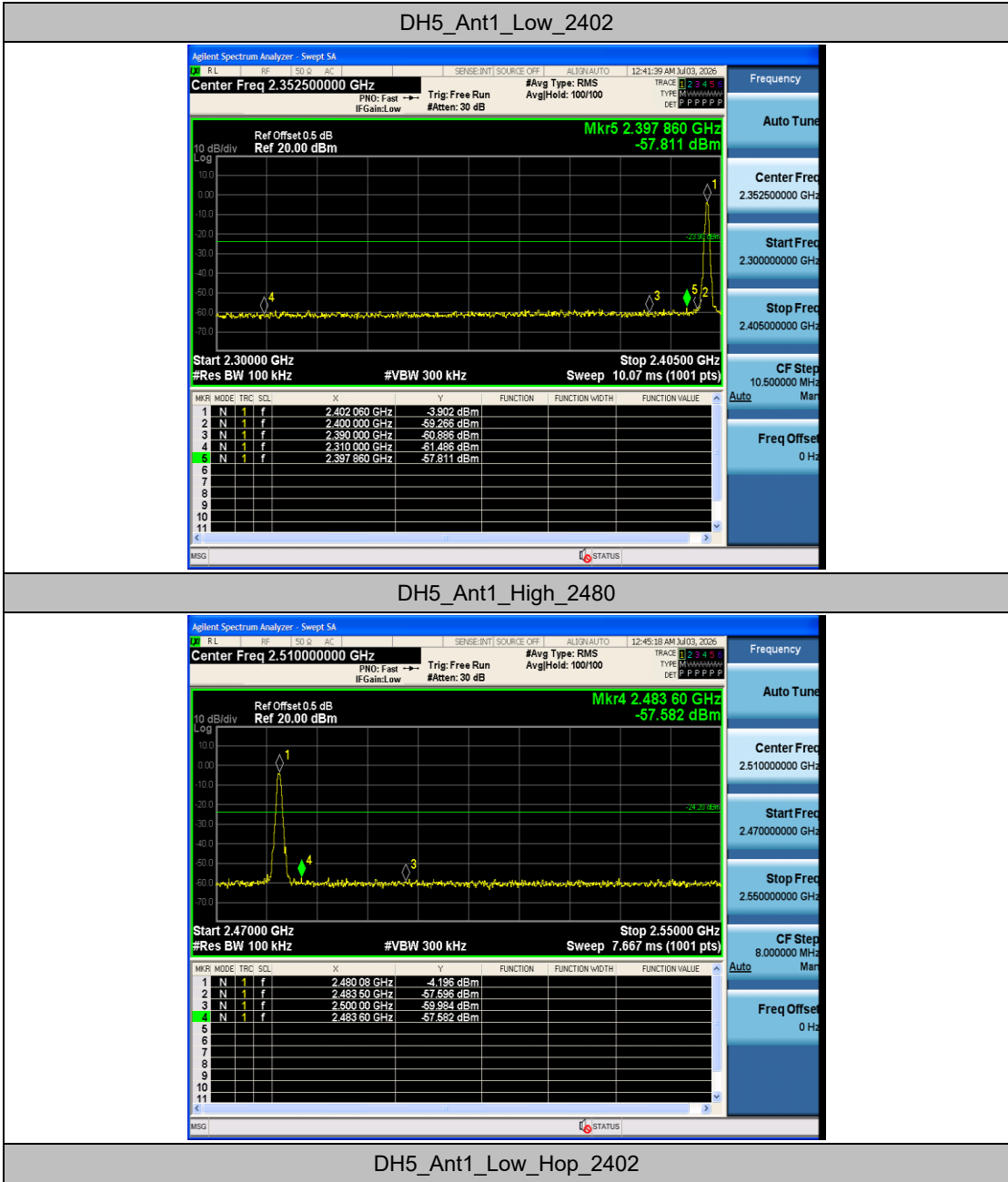


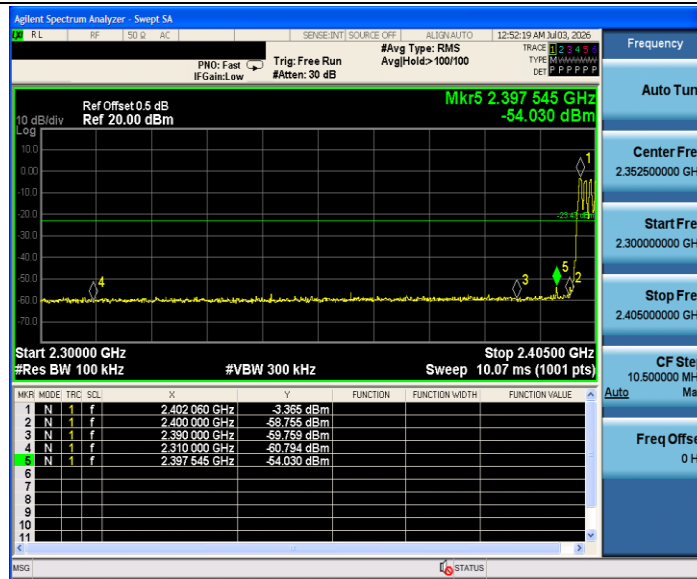
Appendix G: Band edge measurements

Test Result

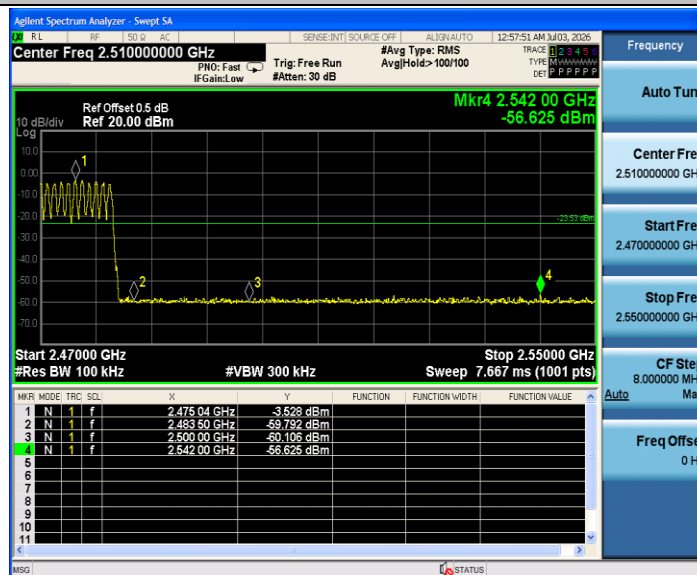
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.90	-57.81	≤-23.9	PASS
		High	2480	-4.20	-57.58	≤-24.2	PASS
		Low	Hop_2402	-3.47	-54.03	≤-23.47	PASS
		High	Hop_2480	-3.53	-56.63	≤-23.53	PASS
2DH5	Ant1	Low	2402	-3.21	-53.62	≤-23.21	PASS
		High	2480	-4.08	-56.04	≤-24.08	PASS
		Low	Hop_2402	-5.86	-58.47	≤-25.86	PASS
		High	Hop_2480	-6.34	-57.19	≤-26.34	PASS

Test Graphs

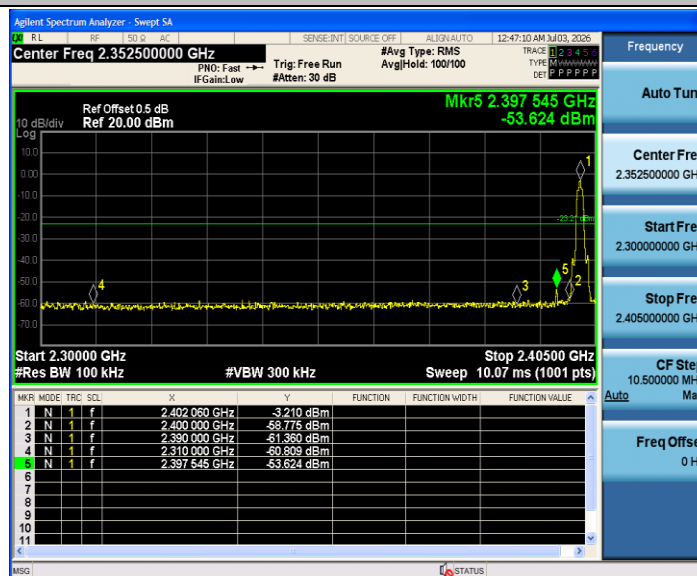




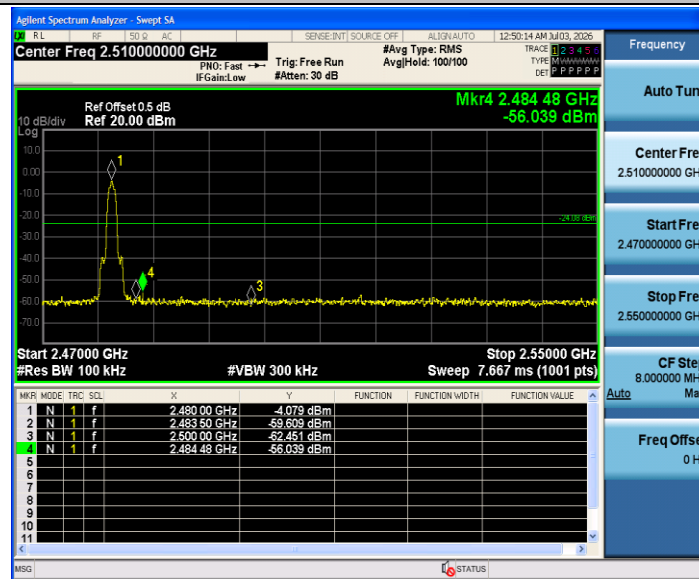
DH5_Ant1_High_Hop_2480



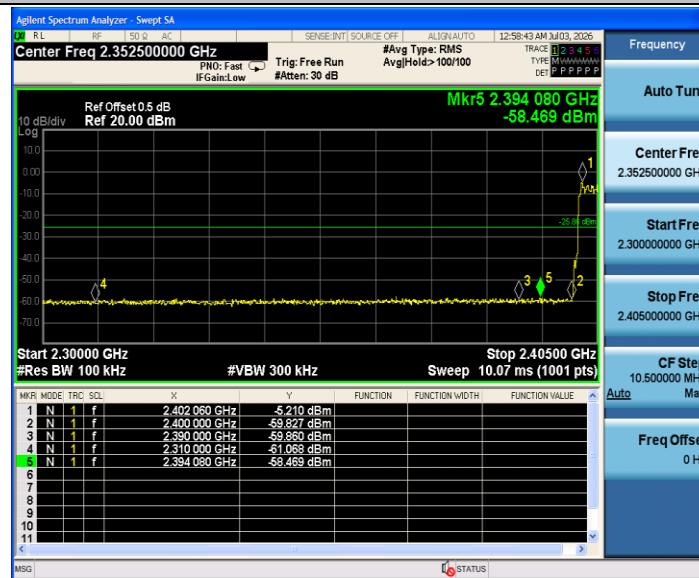
2DH5_Ant1_Low_2402



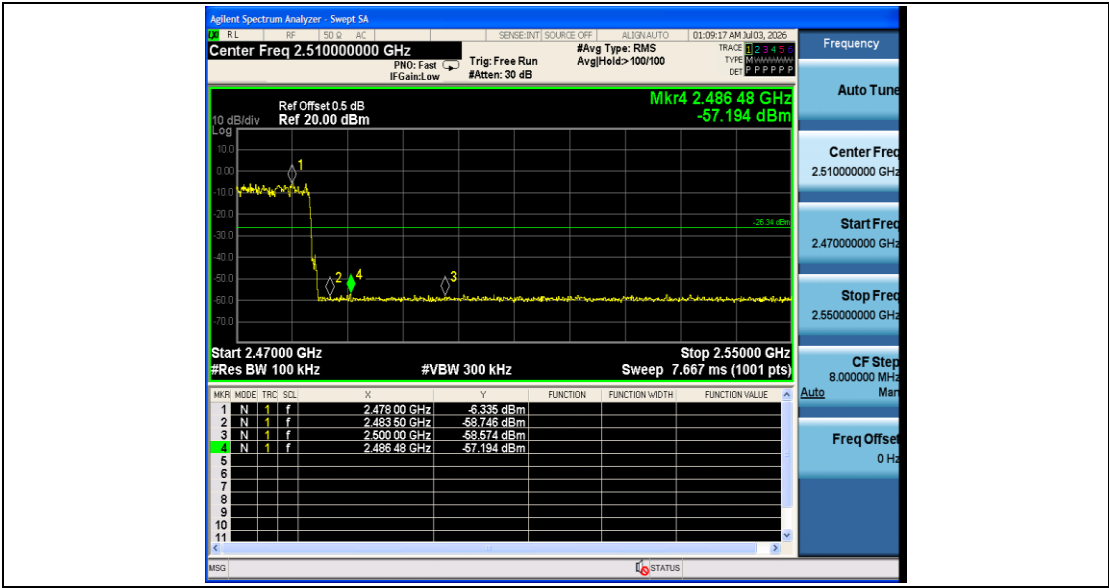
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

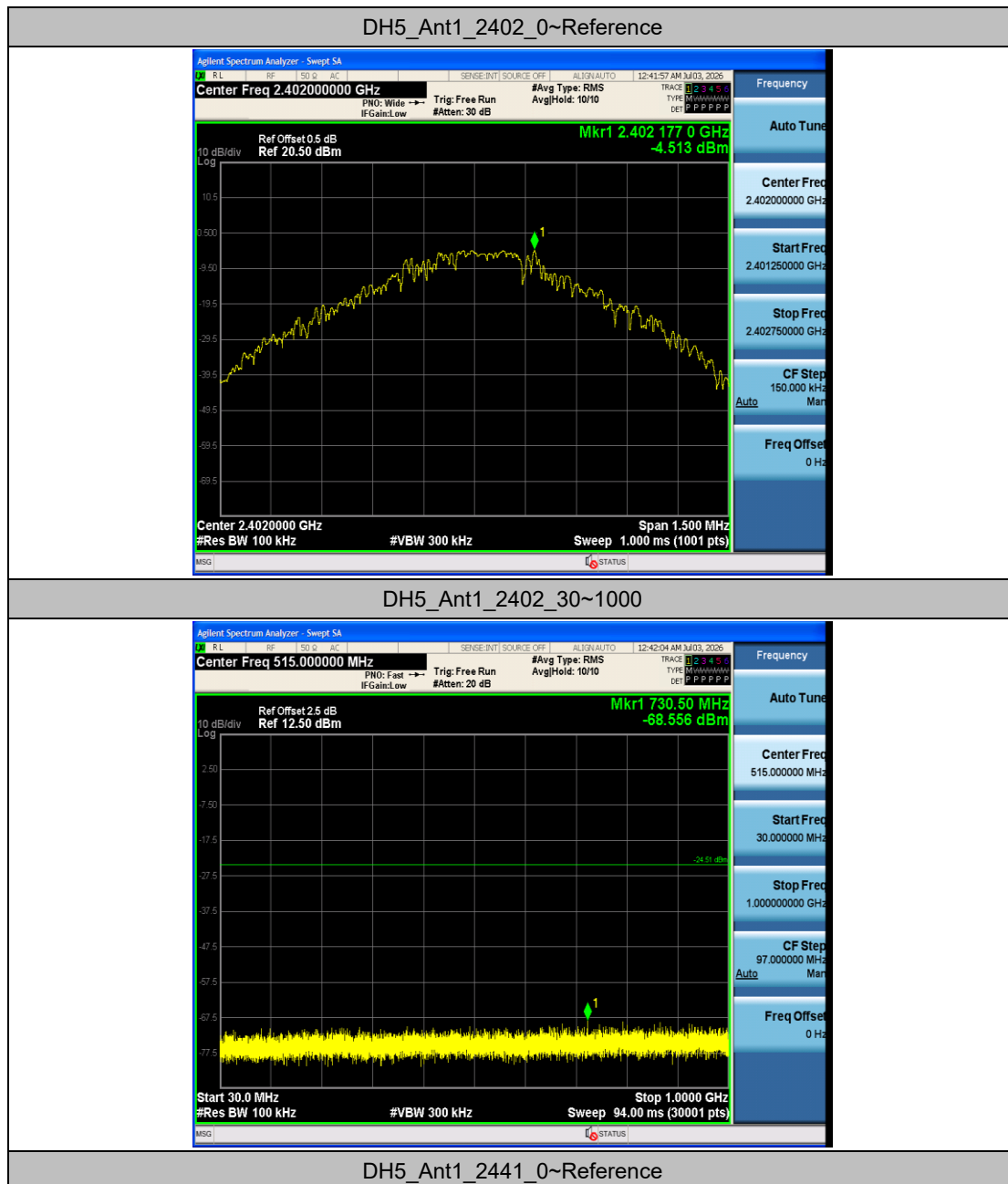


Appendix H: Conducted Spurious Emission

Test Result

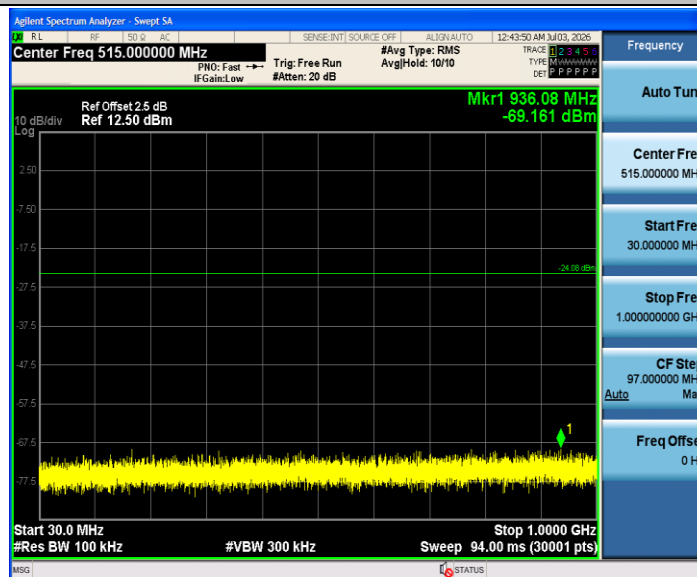
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.51	-4.51	---	PASS
			30~1000	-4.51	-68.56	≤-24.51	PASS
		2441	Reference	-4.08	-4.08	---	PASS
			30~1000	-4.08	-69.16	≤-24.08	PASS
			1000~26500	-4.08	-44.33	≤-24.08	PASS
		2480	Reference	-4.53	-4.53	---	PASS
			30~1000	-4.53	-68.72	≤-24.53	PASS
			1000~26500	-4.53	-45.76	≤-24.53	PASS
		2DH5	Ant1	2402	Reference	-5.05	-5.05
30~1000	-5.05				-69.08	≤-25.05	PASS
1000~26500	-5.05				-45	≤-25.05	PASS
2441	Reference			-4.41	-4.41	---	PASS
	30~1000			-4.41	-68.81	≤-24.41	PASS
	1000~26500			-4.41	-46.67	≤-24.41	PASS
2480	Reference			-5.31	-5.31	---	PASS
	30~1000			-5.31	-68.65	≤-25.31	PASS
	1000~26500			-5.31	-46.4	≤-25.31	PASS

Test Graphs

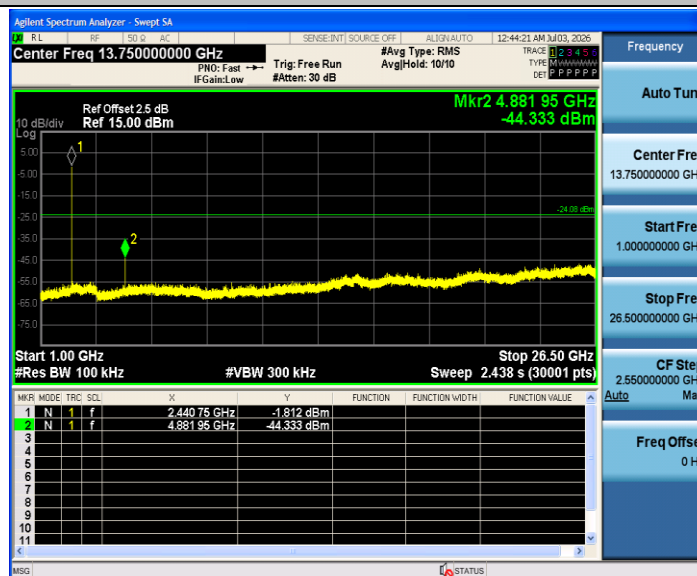




DH5_Ant1_2441_30~1000



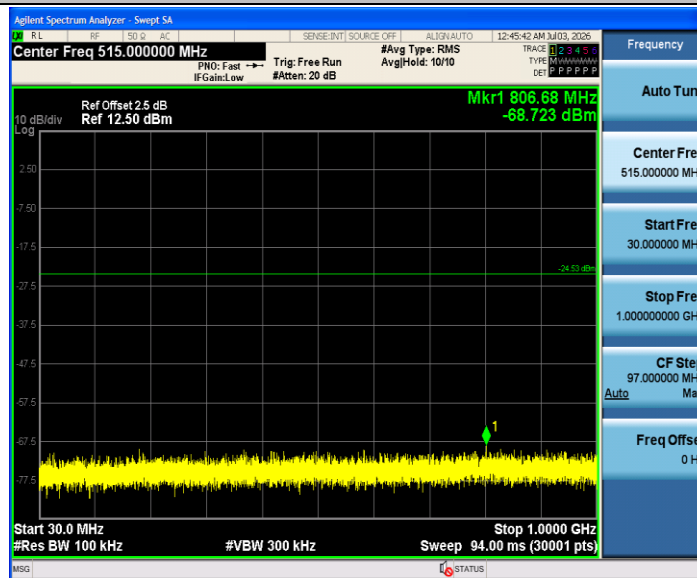
DH5_Ant1_2441_1000~26500



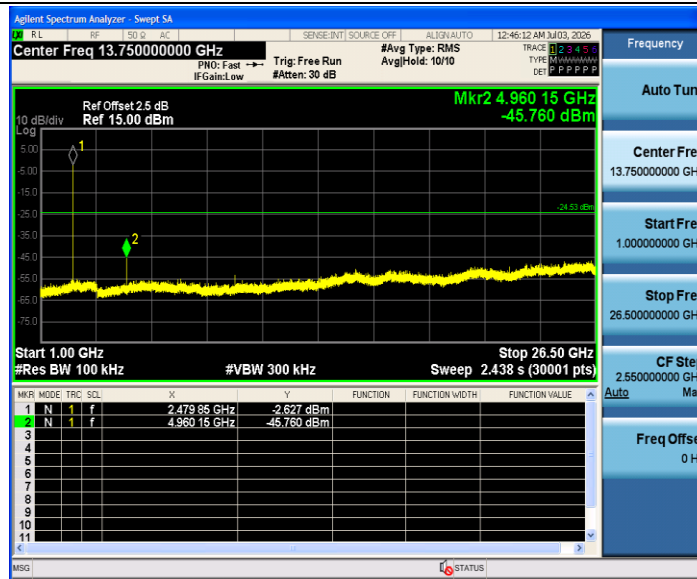
DH5_Ant1_2480_0~Reference



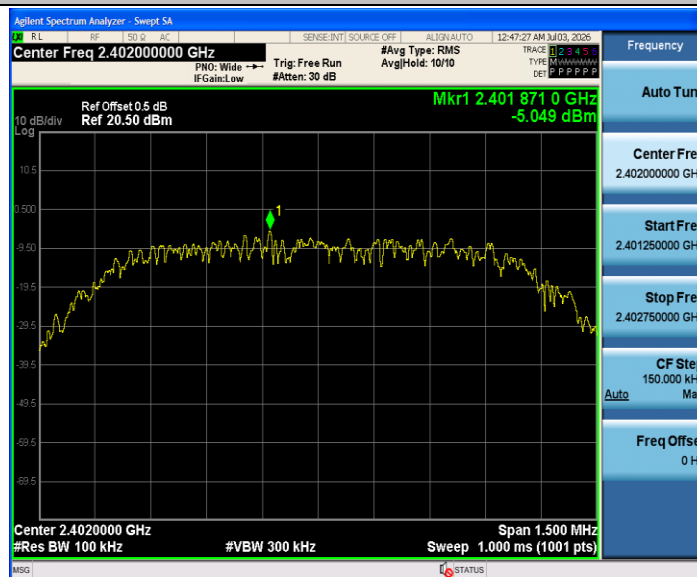
DH5_Ant1_2480_30~1000



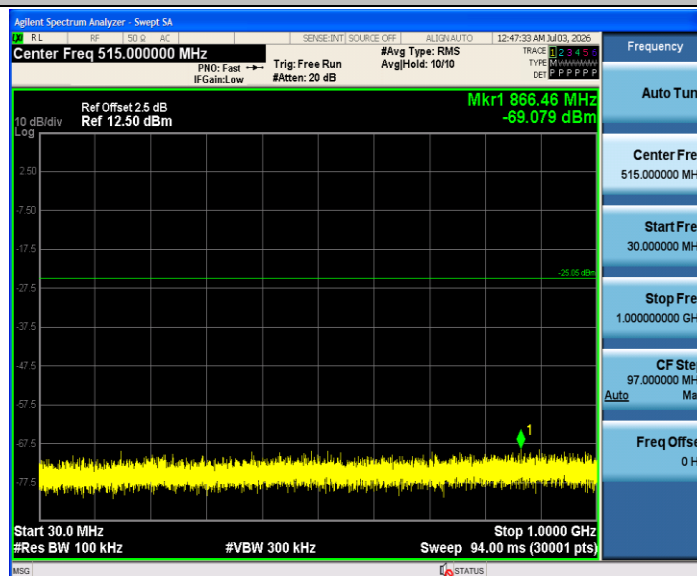
DH5_Ant1_2480_1000~26500



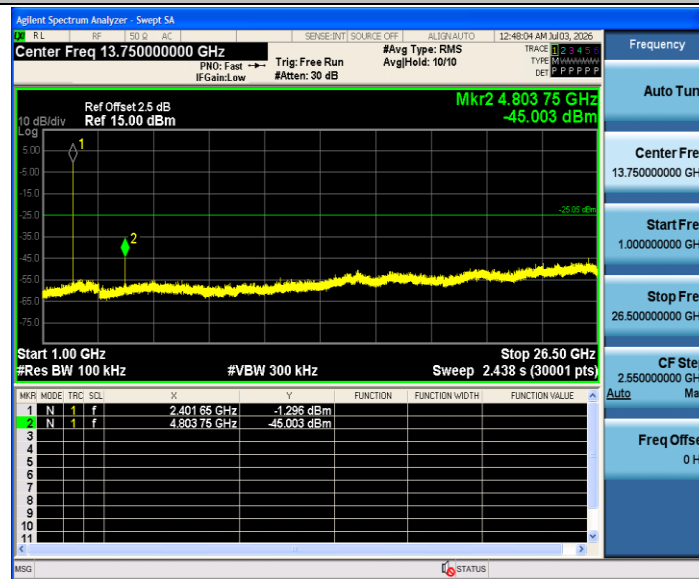
2DH5_Ant1_2402_0~Reference



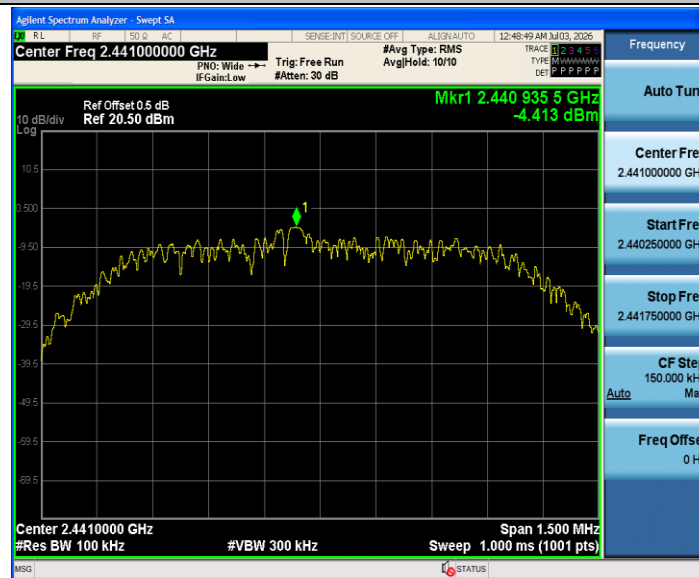
2DH5_Ant1_2402_30~1000



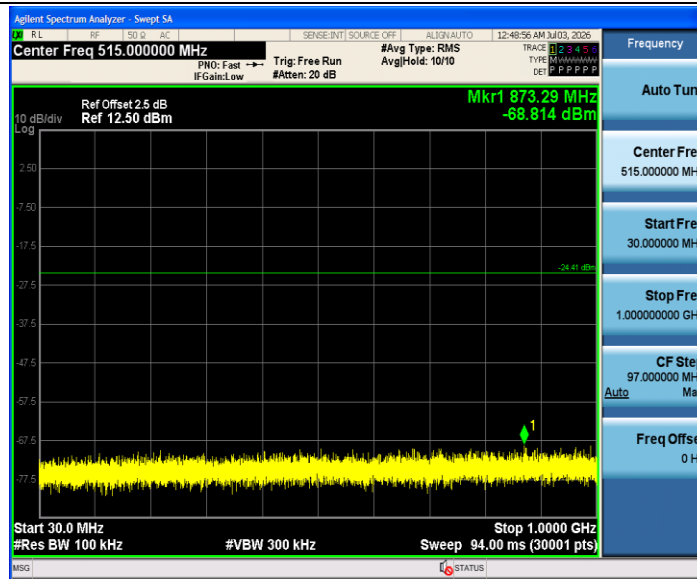
2DH5_Ant1_2402_1000~26500



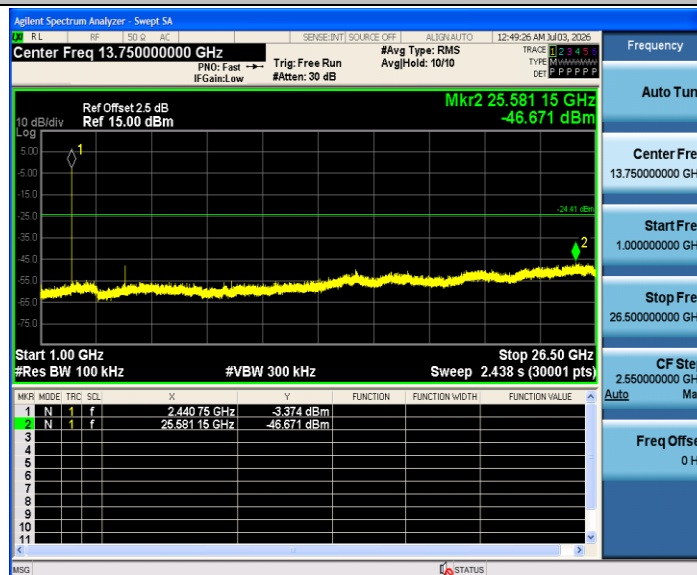
2DH5_Ant1_2441_0~Reference



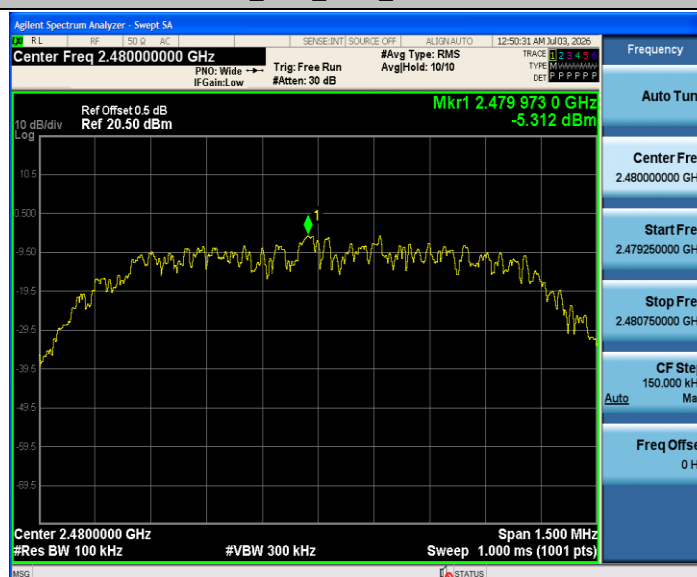
2DH5_Ant1_2441_30~1000



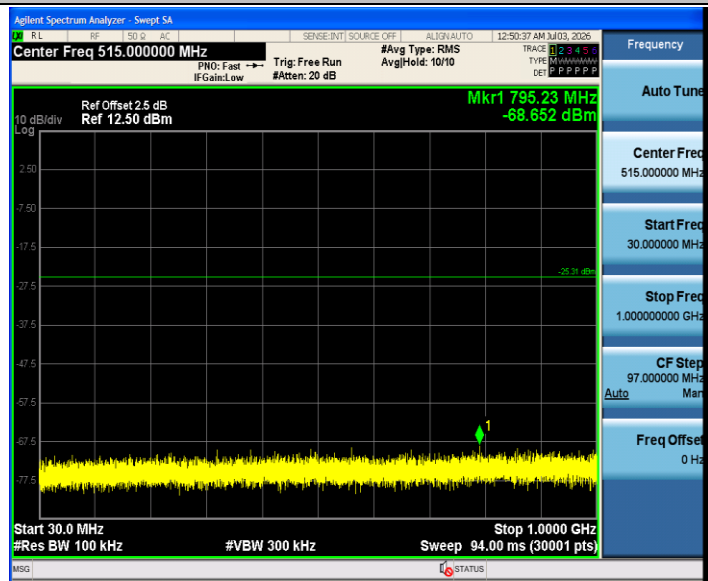
2DH5_Ant1_2441_1000~26500



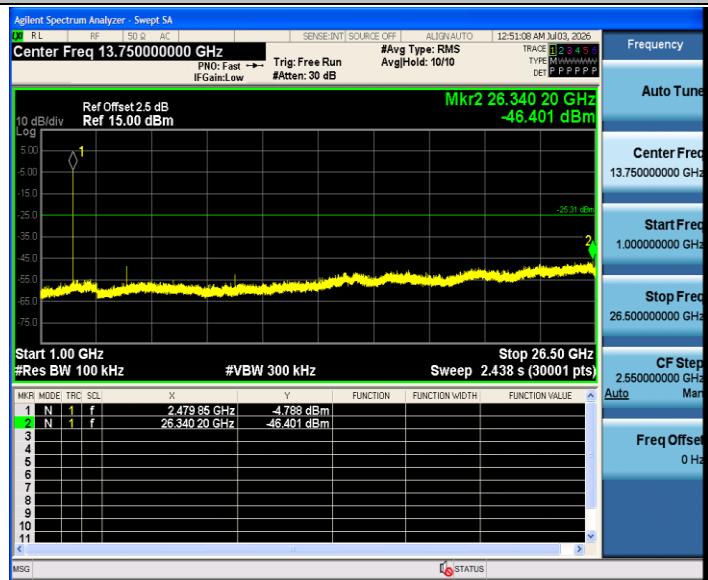
2DH5_Ant1_2480_0~Reference



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	3.74	78.07	1.08	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.76	77.66	1.10	---	---