

FCC Appendix RF Test Data for BT

FCC ID : 2BLGJ-A43

Company : JIAHONGFA TOYS FACTORY

EUT : voice changer

Model Number : A43

Report No. : CTA26063003201

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	0.966	2440.541	2441.507	---	---
		2480	0.954	2479.547	2480.501	---	---
2DH5	Ant1	2402	1.290	2401.376	2402.666	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.320	2479.349	2480.669	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

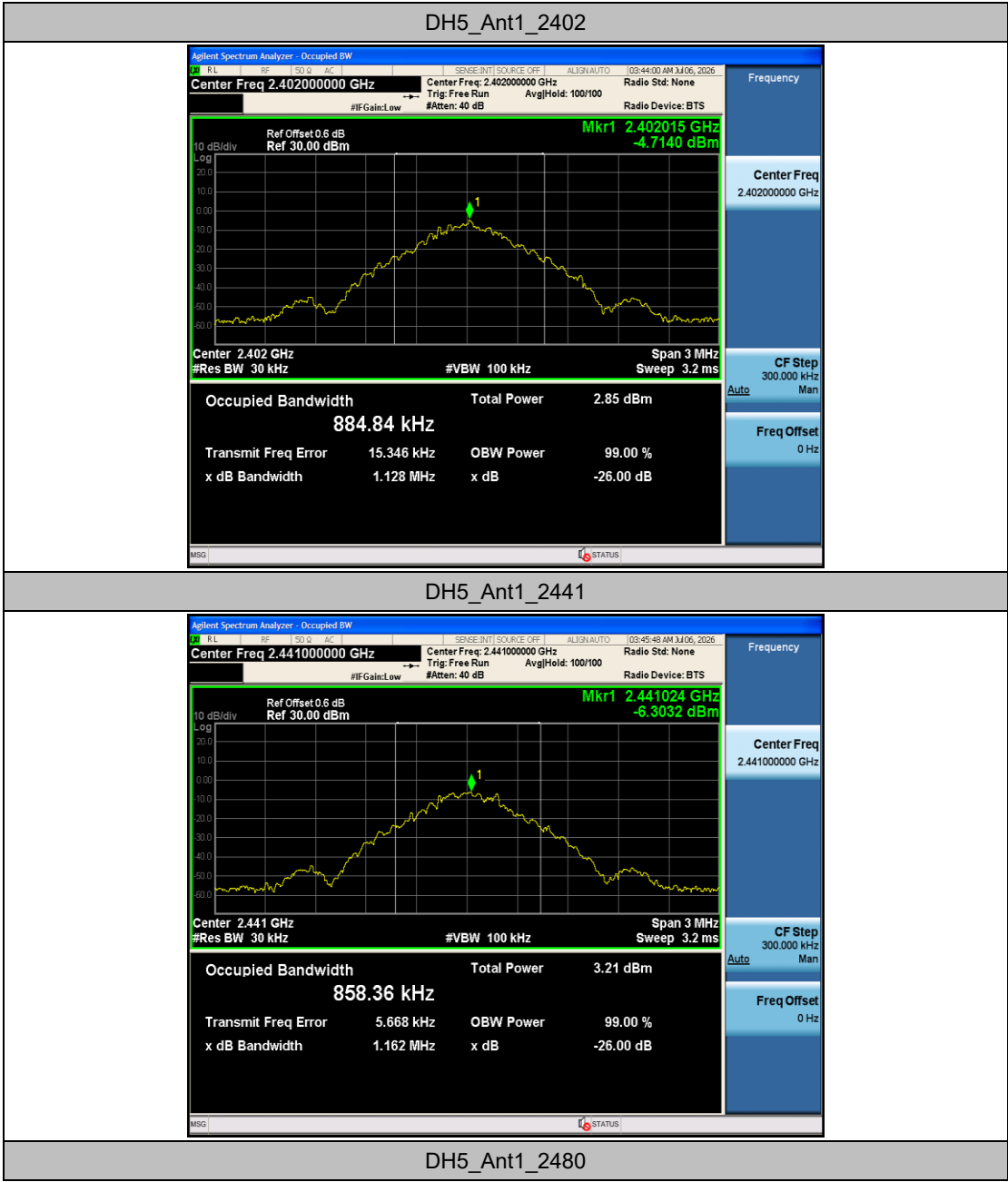


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88484	2401.5729	2402.4578	---	---
		2441	0.85836	2440.5765	2441.4349	---	---
		2480	0.86836	2479.5757	2480.4441	---	---
2DH5	Ant1	2402	1.1936	2401.4128	2402.6064	---	---
		2441	1.1900	2440.4148	2441.6048	---	---
		2480	1.1780	2479.4186	2480.5966	---	---

Test Graphs





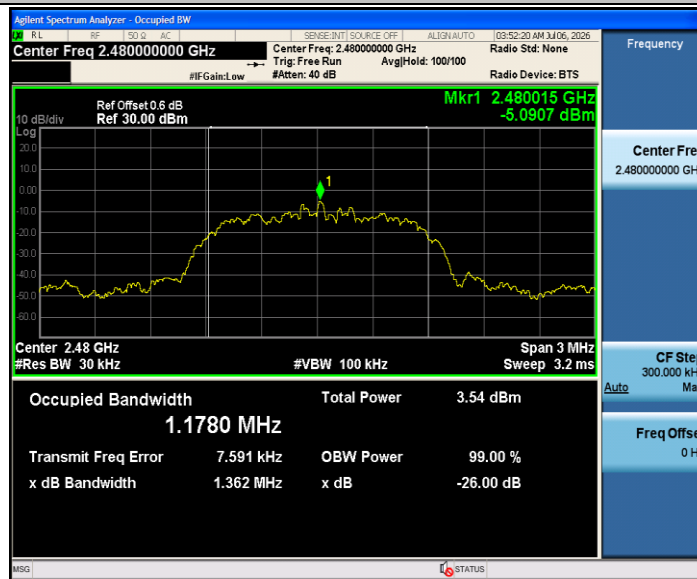
2DH5_Ant1_2402



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	-3.20	≤20.97	PASS
		2441	-3.29	≤20.97	PASS
		2480	-3.55	≤20.97	PASS
2DH5	Ant1	2402	-0.55	≤20.97	PASS
		2441	-0.68	≤20.97	PASS
		2480	-0.91	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.966	PASS
2DH5	Ant1	Hop	0.964	≥ 0.882	PASS

Test Graphs

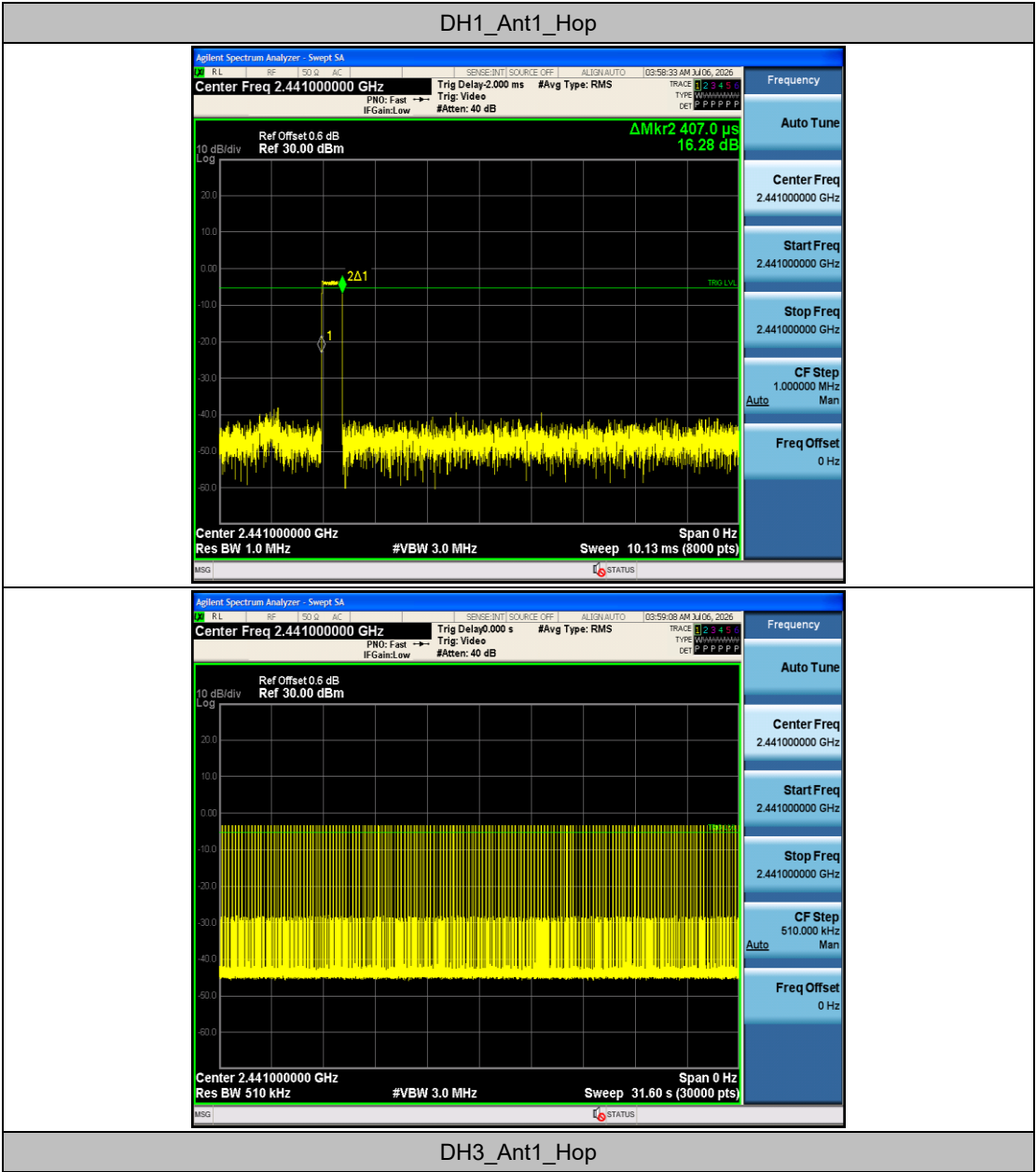


Appendix E: Time of occupancy

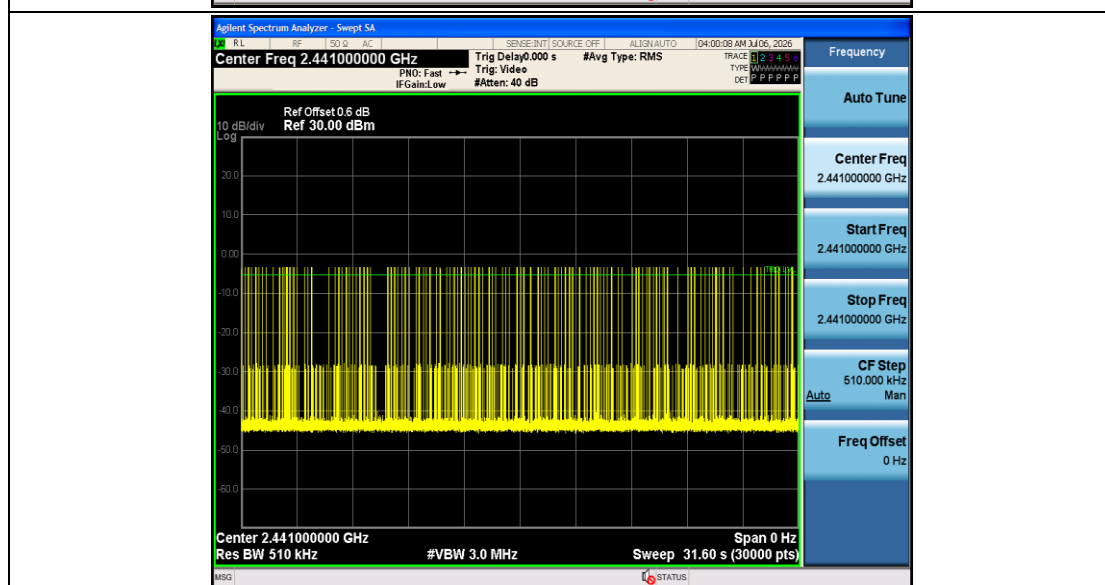
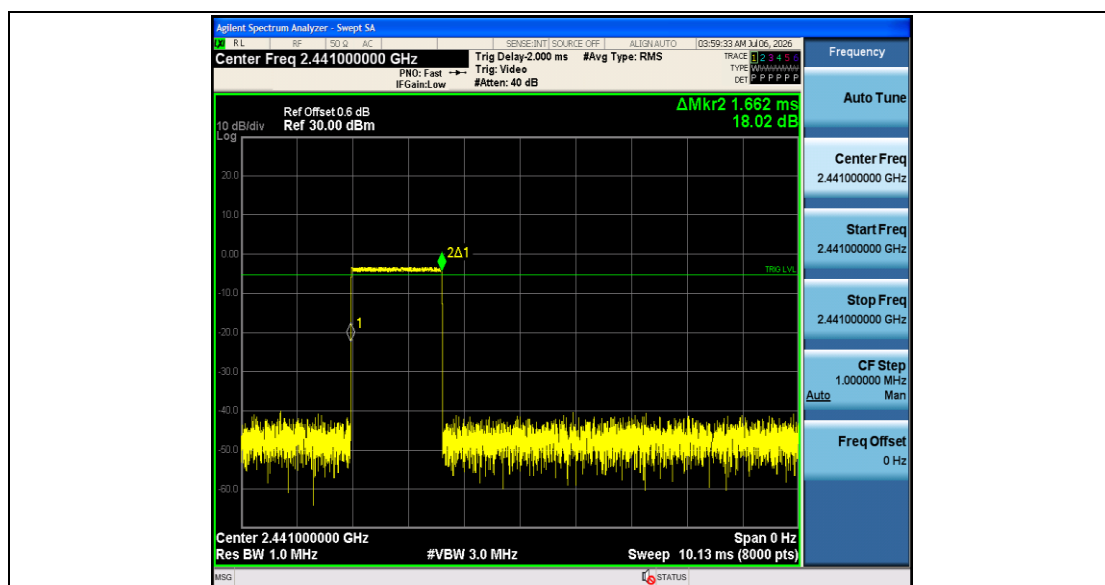
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	317	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	171	0.284	≤0.4	PASS
DH5	Ant1	Hop	2.911	102	0.297	≤0.4	PASS
2DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	161	0.269	≤0.4	PASS
2DH5	Ant1	Hop	2.916	117	0.341	≤0.4	PASS

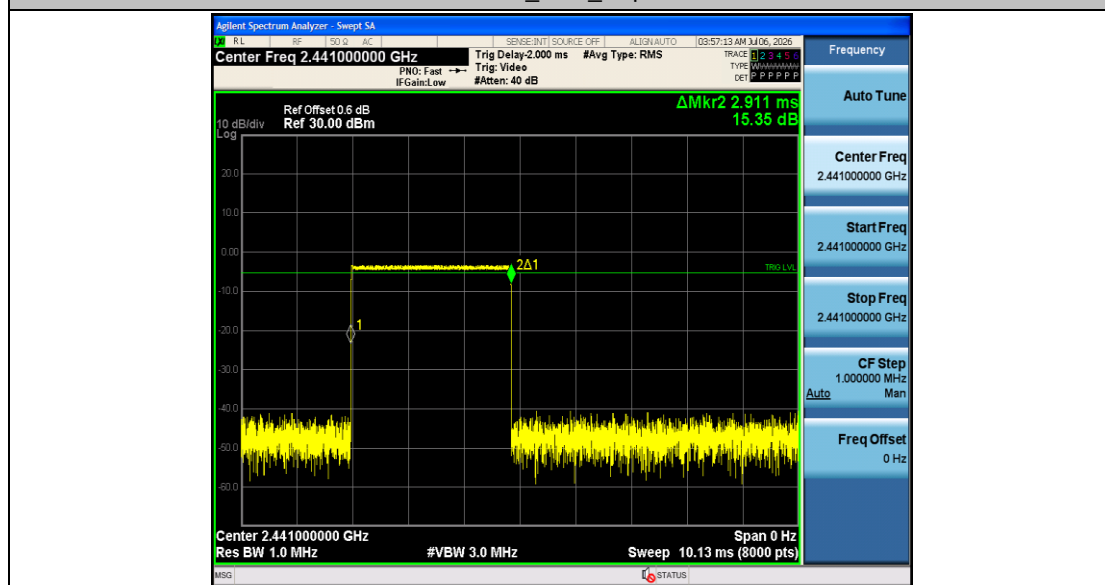
Test Graphs

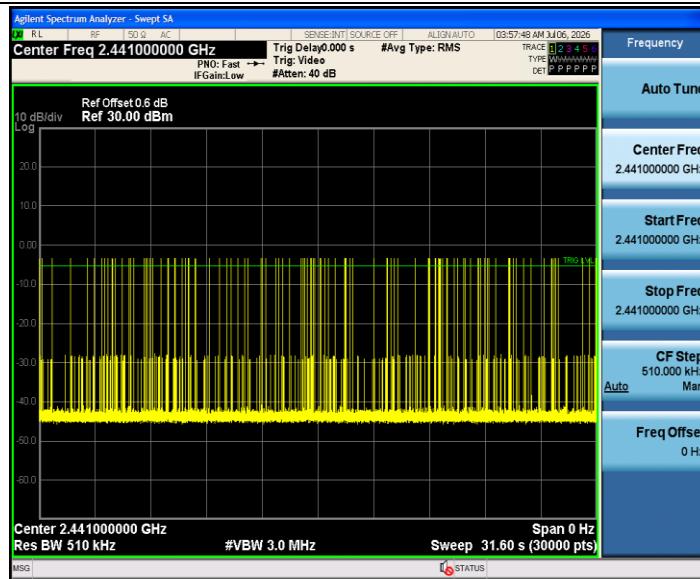


DH3_Ant1_Hop

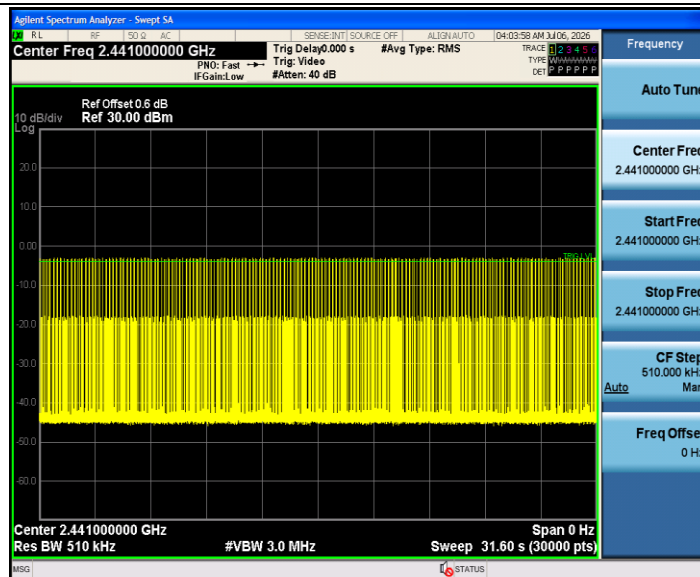
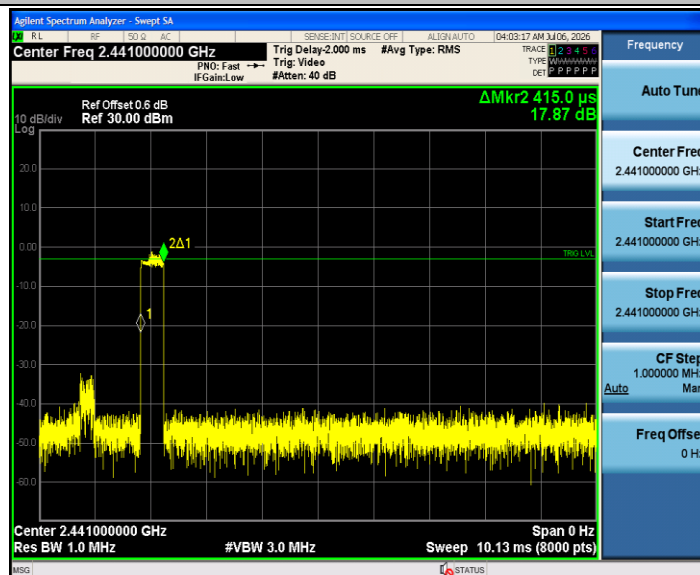


DH5_Ant1_Hop

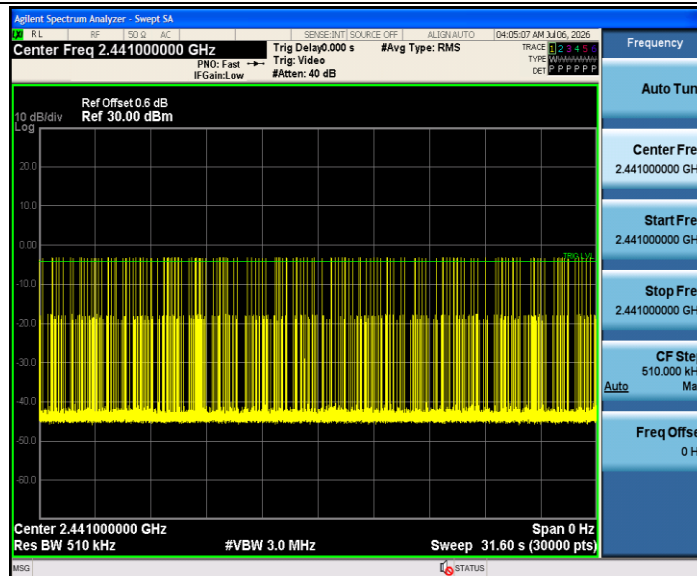
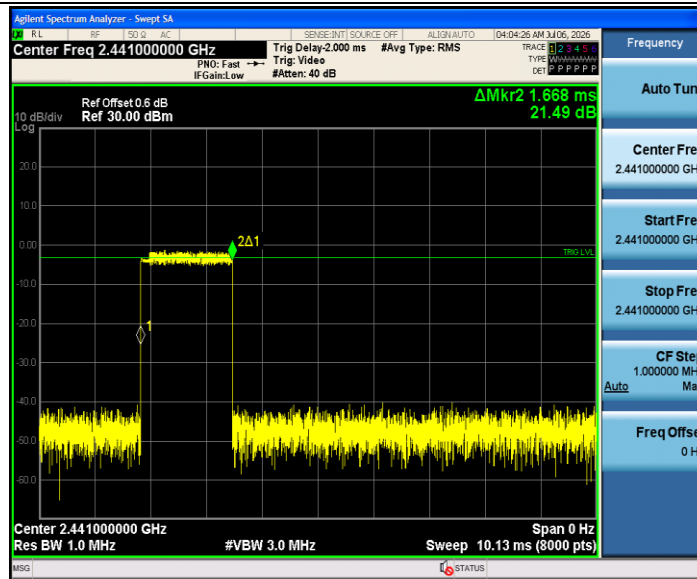




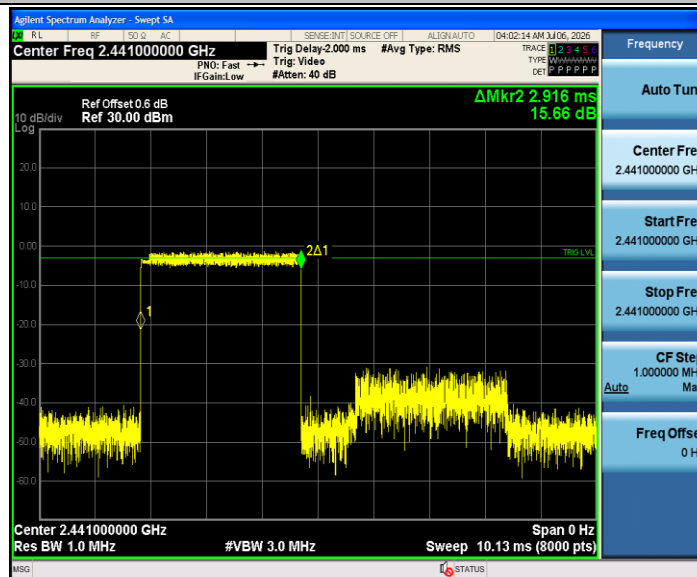
2DH1_Ant1_Hop

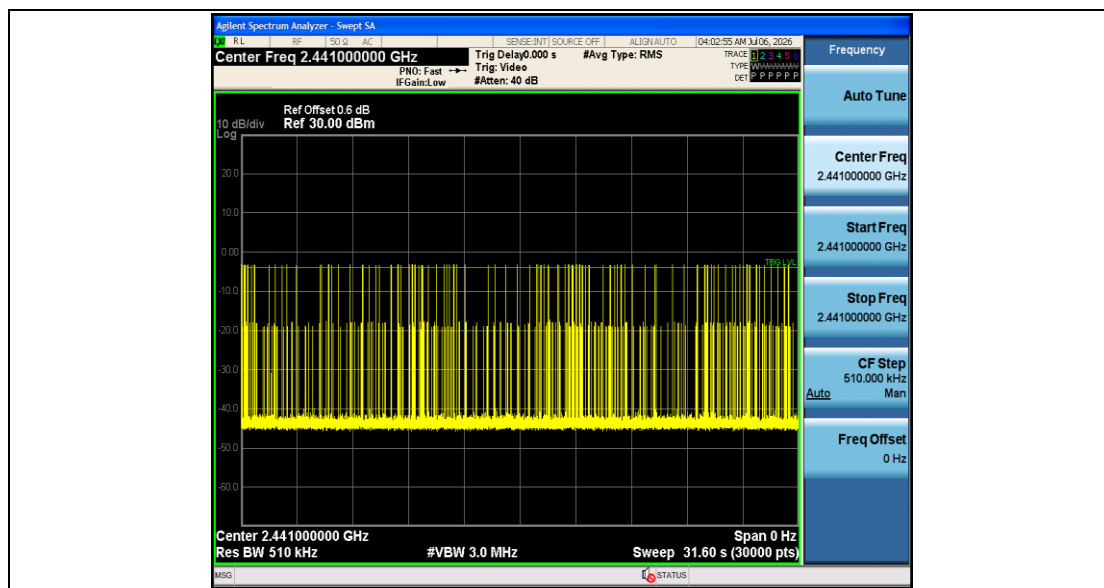


2DH3_Ant1_Hop



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

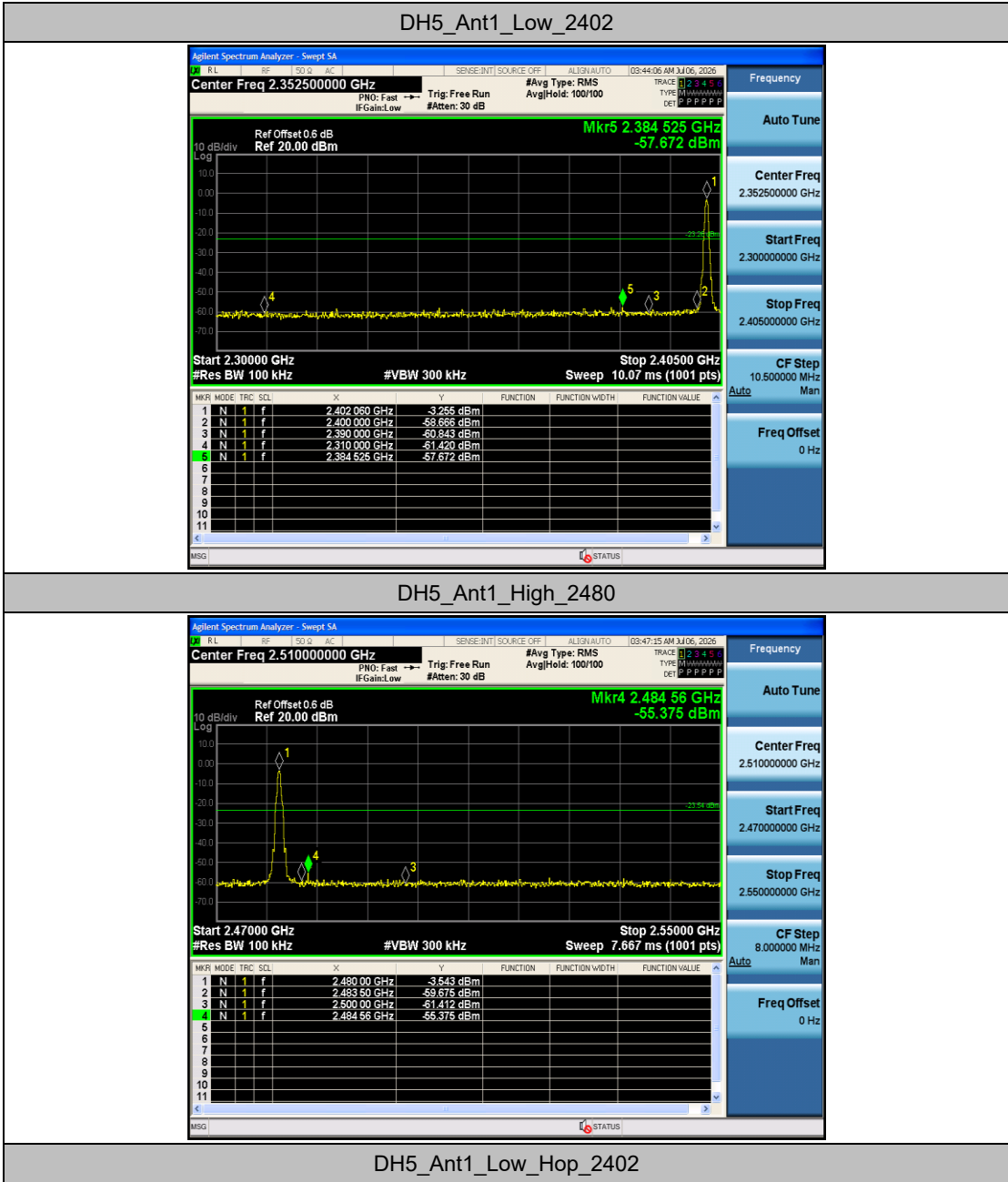


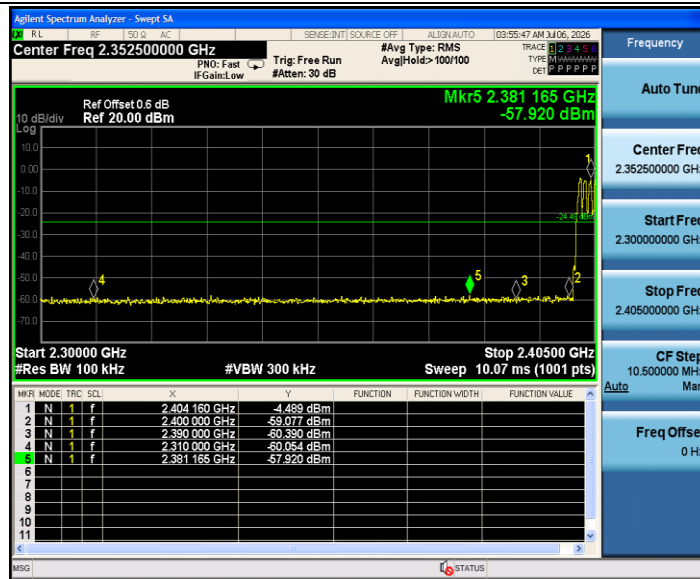
Appendix G: Band edge measurements

Test Result

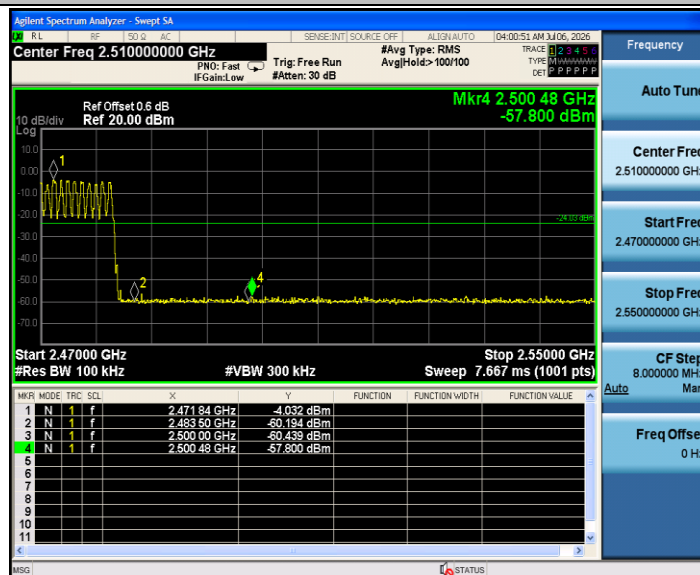
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.26	-57.67	≤-23.26	PASS
		High	2480	-3.54	-55.38	≤-23.54	PASS
		Low	Hop_2402	-4.49	-57.92	≤-24.49	PASS
		High	Hop_2480	-4.03	-57.8	≤-24.03	PASS
2DH5	Ant1	Low	2402	-4.45	-55.45	≤-24.45	PASS
		High	2480	-6.09	-57.72	≤-26.09	PASS
		Low	Hop_2402	-5.98	-57.95	≤-25.98	PASS
		High	Hop_2480	-7.33	-57.3	≤-27.33	PASS

Test Graphs

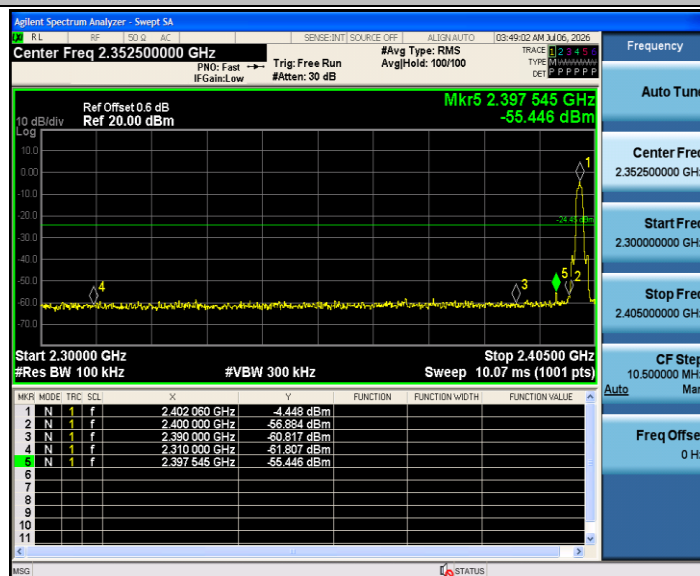




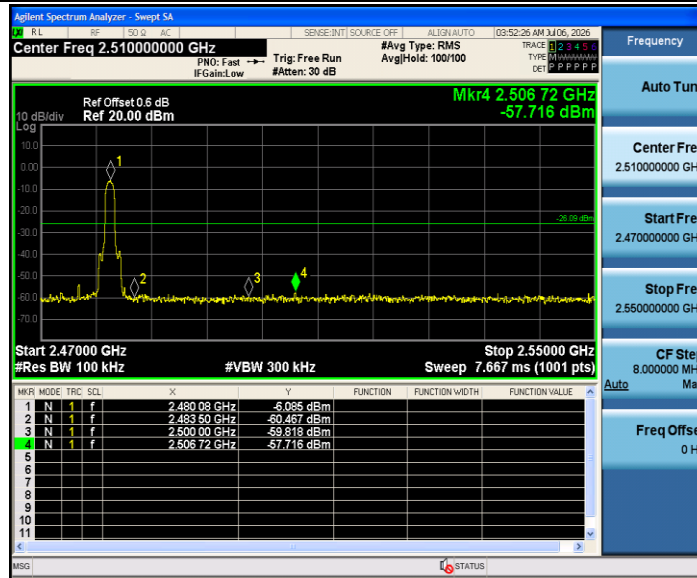
DH5_Ant1_High_Hop_2480



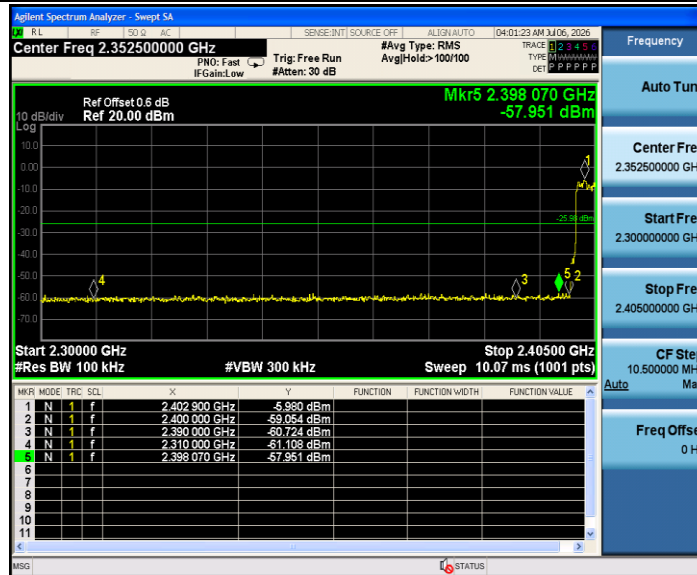
2DH5_Ant1_Low_2402



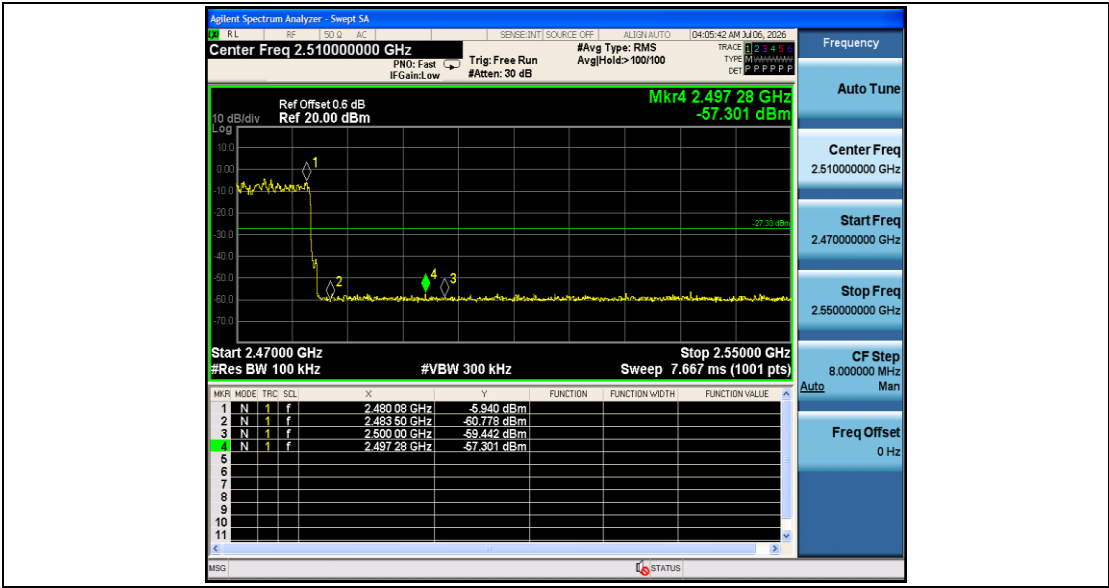
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

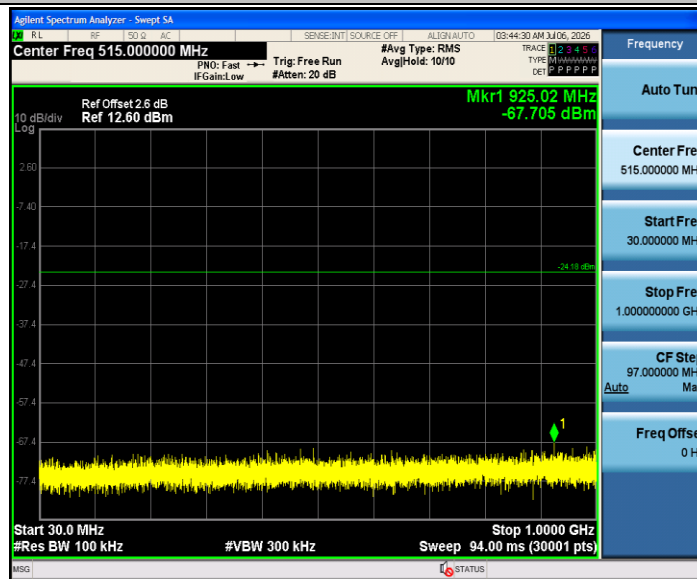
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.18	-4.18	---	PASS
			30~1000	-4.18	-67.71	≤-24.18	PASS
			1000~26500	-4.18	-46	≤-24.18	PASS
		2441	Reference	-3.88	-3.88	---	PASS
			30~1000	-3.88	-64.78	≤-23.88	PASS
			1000~26500	-3.88	-46.81	≤-23.88	PASS
		2480	Reference	-4.67	-4.67	---	PASS
			30~1000	-4.67	-69.31	≤-24.67	PASS
			1000~26500	-4.67	-46.02	≤-24.67	PASS
2DH5	Ant1	2402	Reference	-5.19	-5.19	---	PASS
			30~1000	-5.19	-68.67	≤-25.19	PASS
			1000~26500	-5.19	-46.33	≤-25.19	PASS
		2441	Reference	-3.77	-3.77	---	PASS
			30~1000	-3.77	-68.22	≤-23.77	PASS
			1000~26500	-3.77	-46.69	≤-23.77	PASS
		2480	Reference	-6.02	-6.02	---	PASS
			30~1000	-6.02	-68.86	≤-26.02	PASS
			1000~26500	-6.02	-46.29	≤-26.02	PASS

Test Graphs

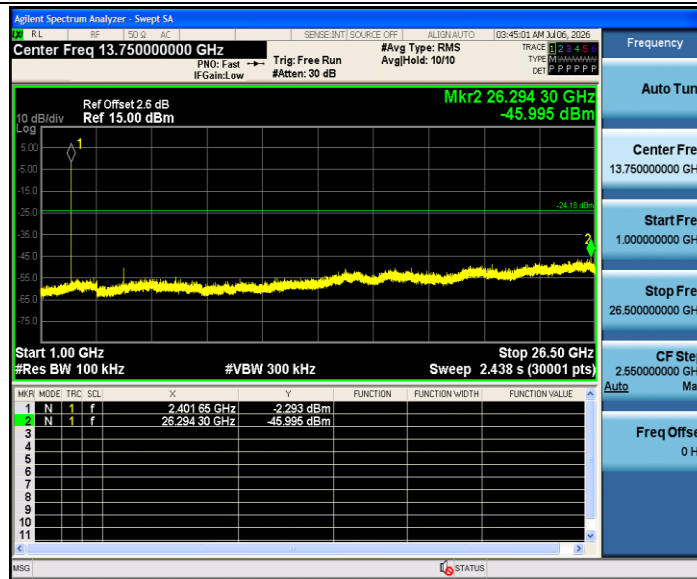
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



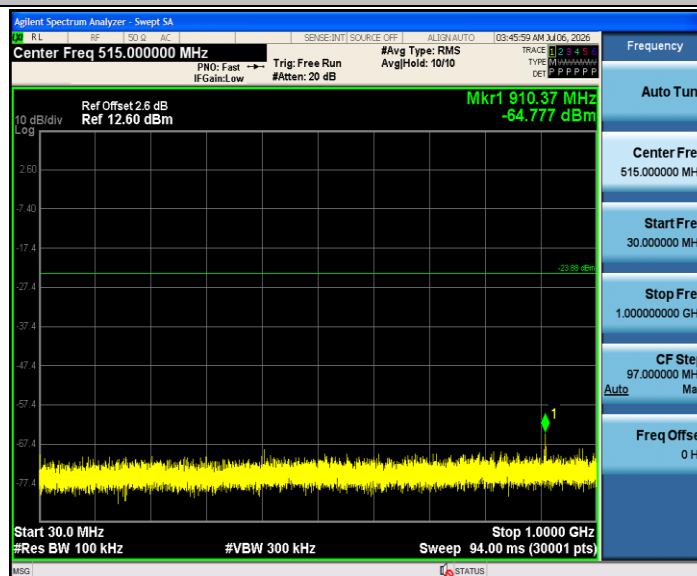
DH5_Ant1_2402_1000~26500



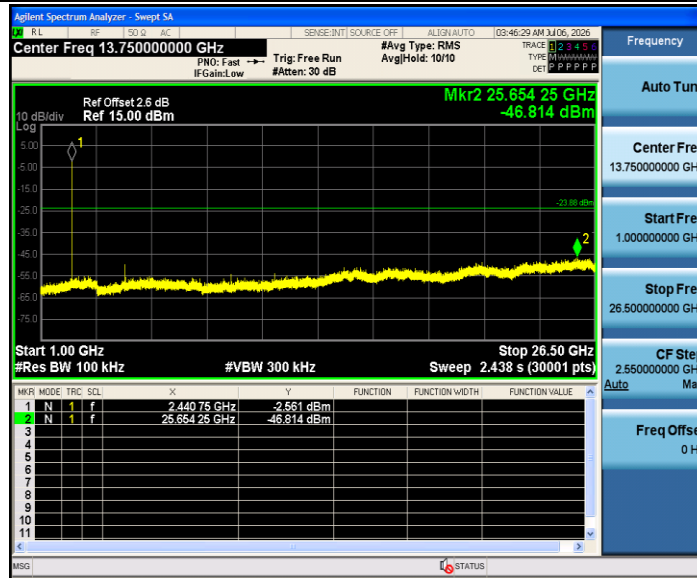
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



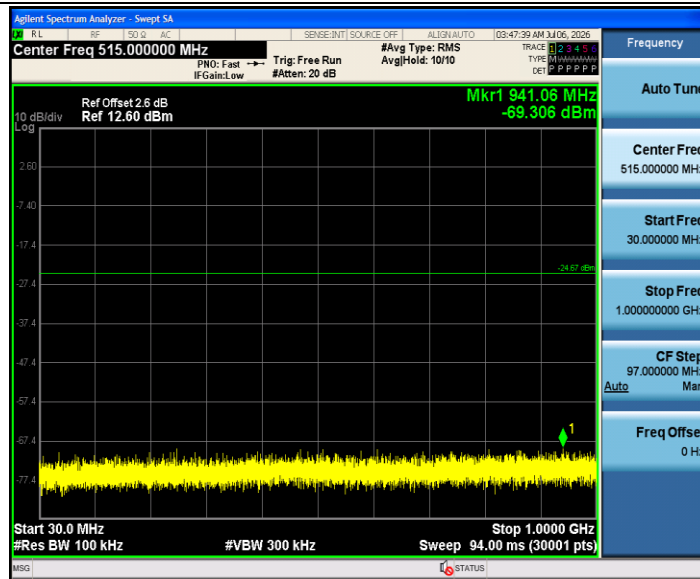
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



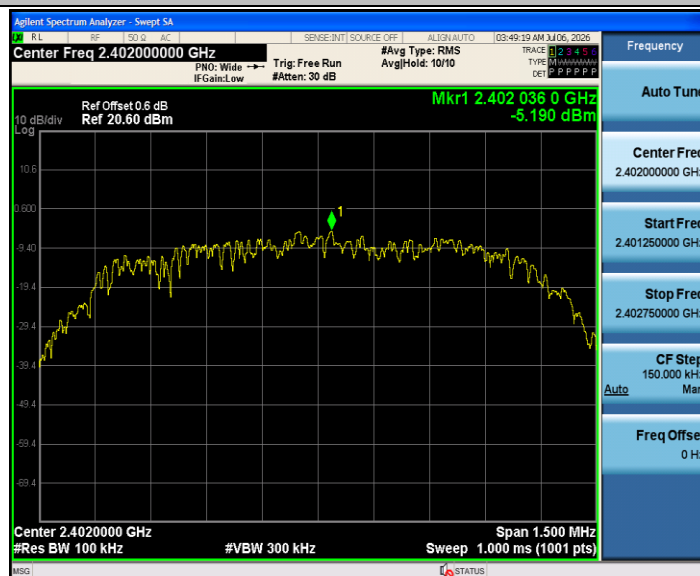
DH5_Ant1_2480_30~1000



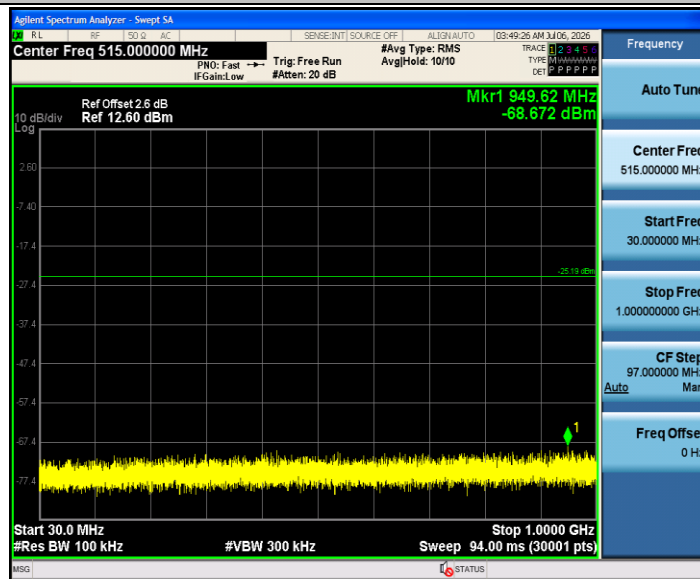
DH5_Ant1_2480_1000~26500



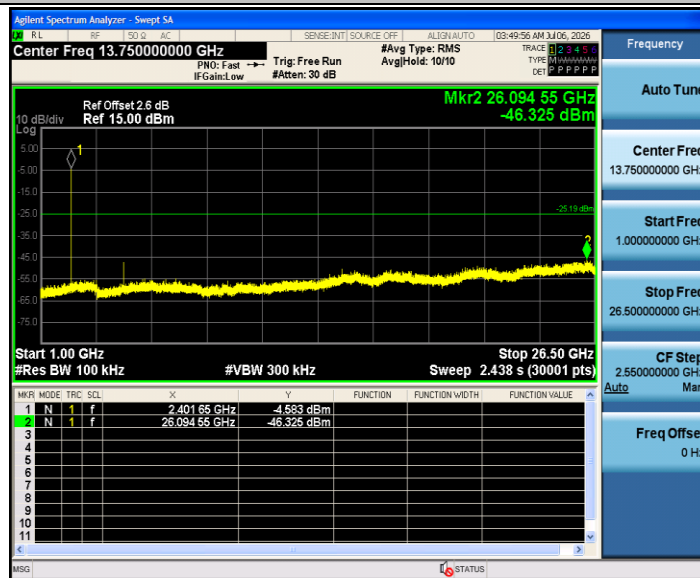
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



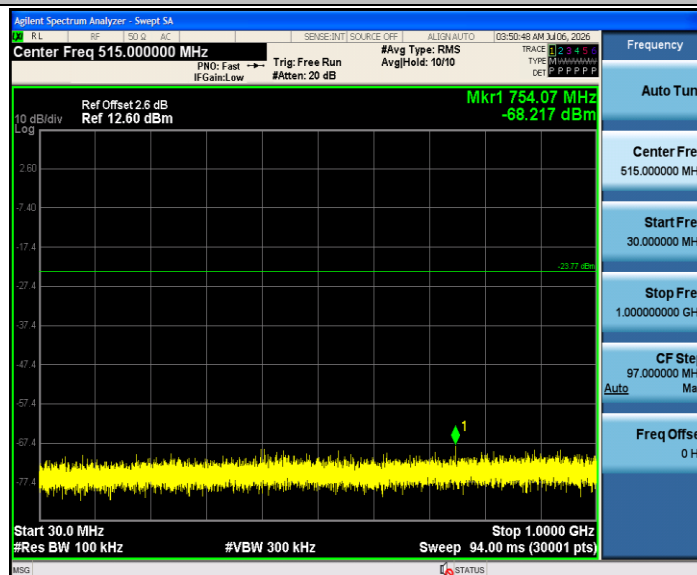
2DH5_Ant1_2402_1000~26500



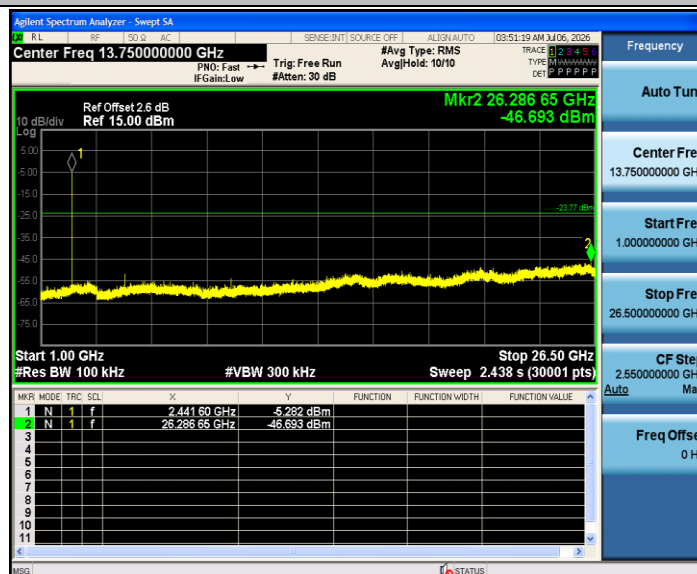
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



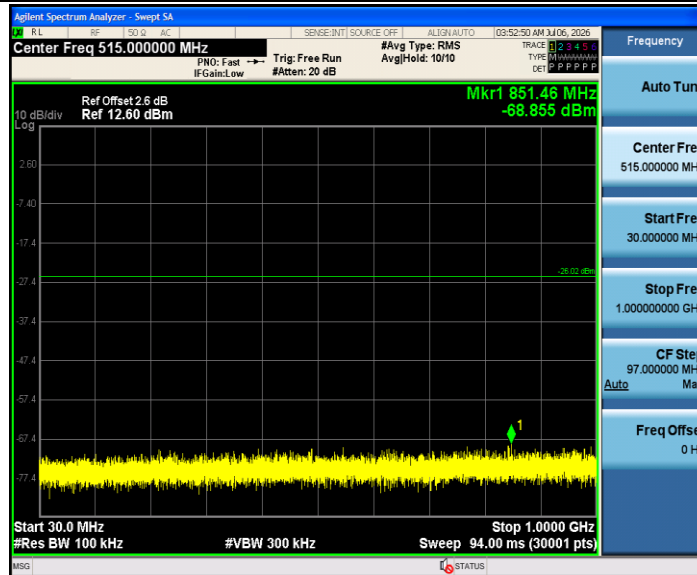
2DH5_Ant1_2441_1000~26500



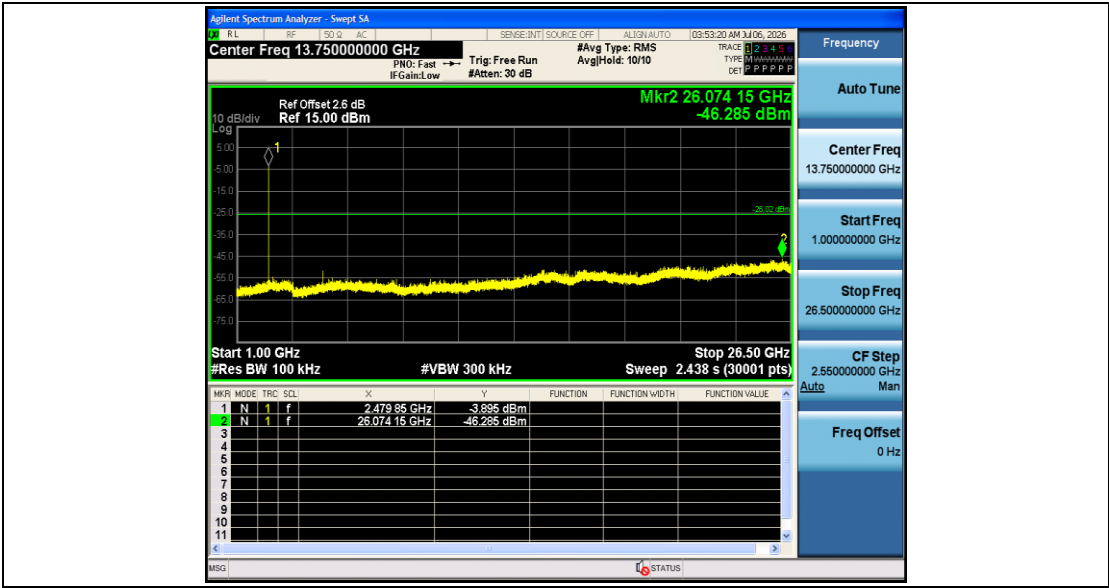
2DH5_Ant1_2480_0~Reference



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	2.92	3.76	77.66	1.10	---	---