

FCC Appendix RF Test Data for BT

FCC ID : 2A48I-JF-B-31-1

Company : Ningbo Jiufeng Electrical Appliance Co., Ltd.

EUT : Vibration Plate Machine

Model Number : JF-B-31-1

Report No. : CTA26082700601

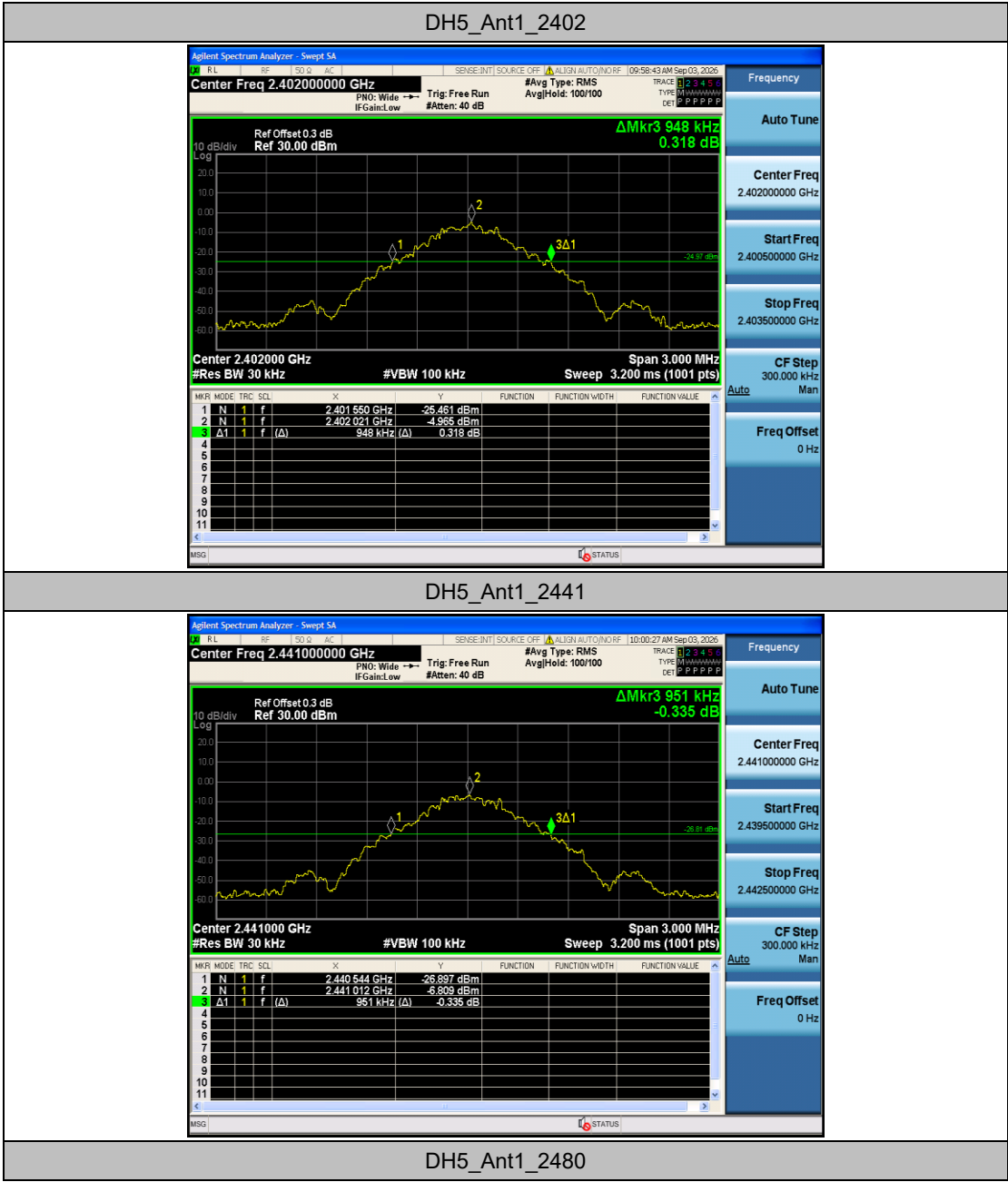
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.550	2402.498	---	---
		2441	0.951	2440.544	2441.495	---	---
		2480	0.966	2479.541	2480.507	---	---
2DH5	Ant1	2402	1.287	2401.379	2402.666	---	---
		2441	1.314	2440.349	2441.663	---	---
		2480	1.317	2479.352	2480.669	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

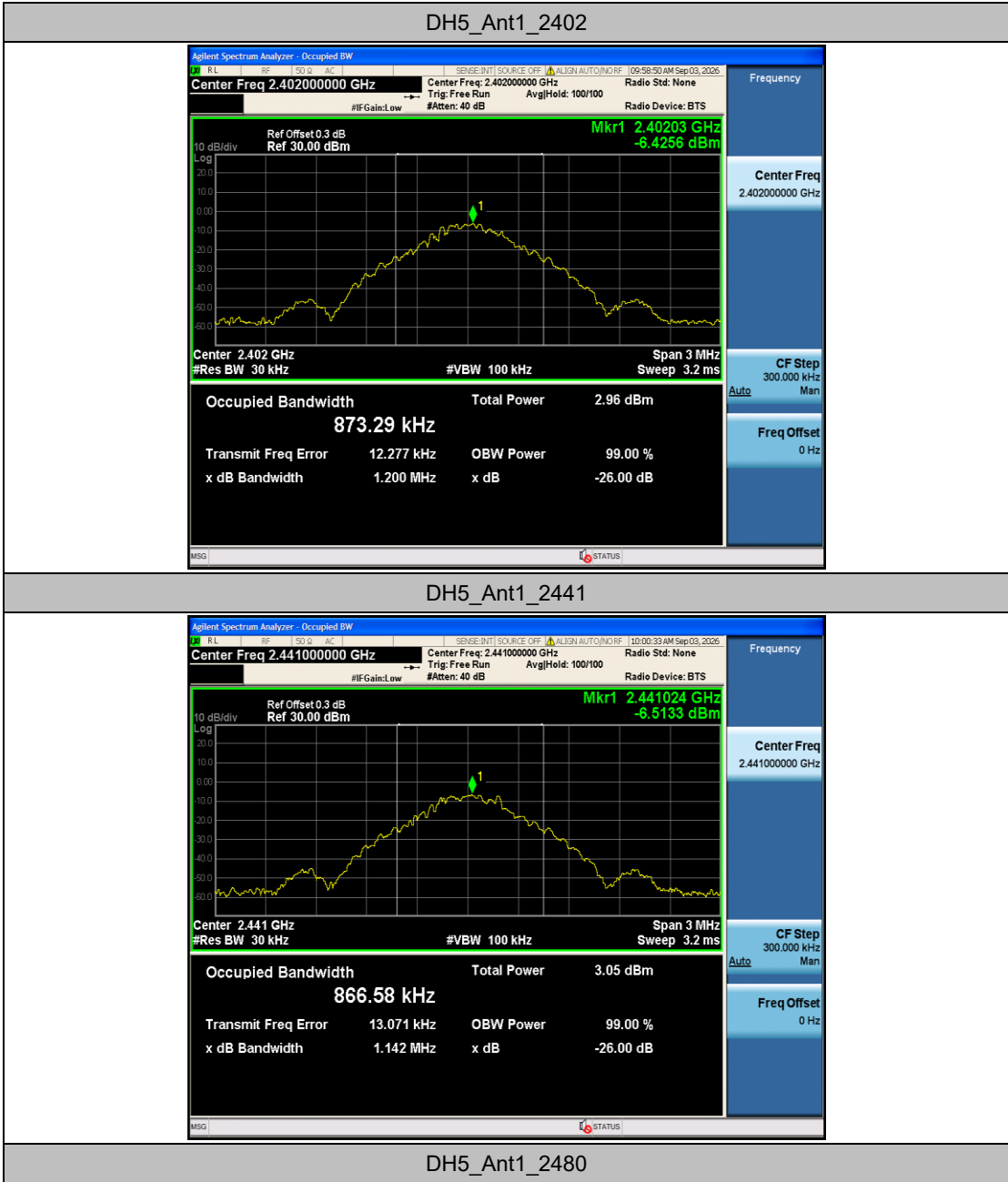


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87329	2401.5756	2402.4489	---	---
		2441	0.86658	2440.5798	2441.4464	---	---
		2480	0.85229	2479.5819	2480.4342	---	---
2DH5	Ant1	2402	1.1897	2401.4165	2402.6062	---	---
		2441	1.1809	2440.4199	2441.6008	---	---
		2480	1.1849	2479.4224	2480.6073	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

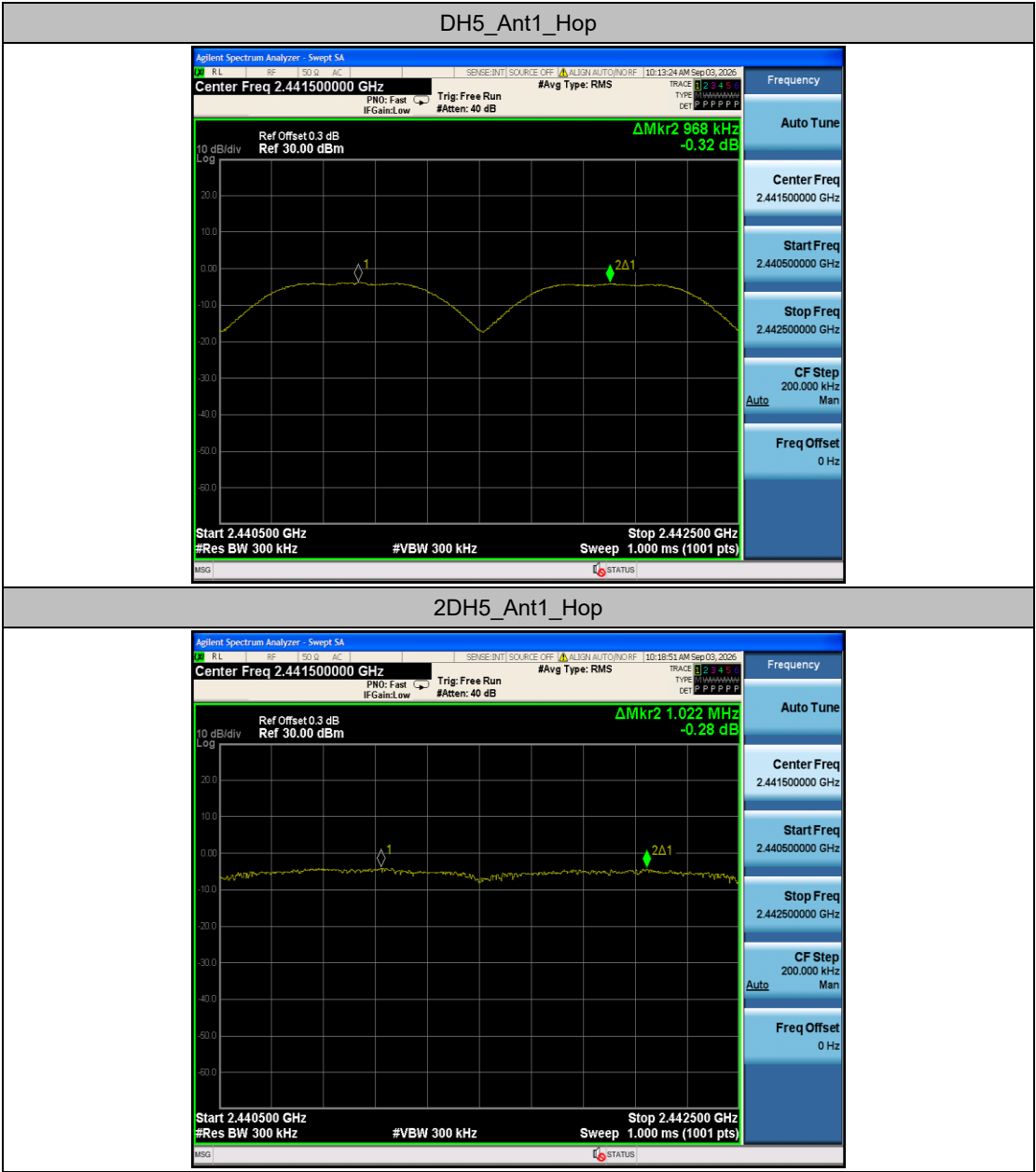
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.28	≤20.97	PASS
		2441	-3.50	≤20.97	PASS
		2480	-3.81	≤20.97	PASS
2DH5	Ant1	2402	-0.69	≤20.97	PASS
		2441	-0.92	≤20.97	PASS
		2480	-1.26	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.968	≥ 0.966	PASS
2DH5	Ant1	Hop	1.022	≥ 0.878	PASS

Test Graphs

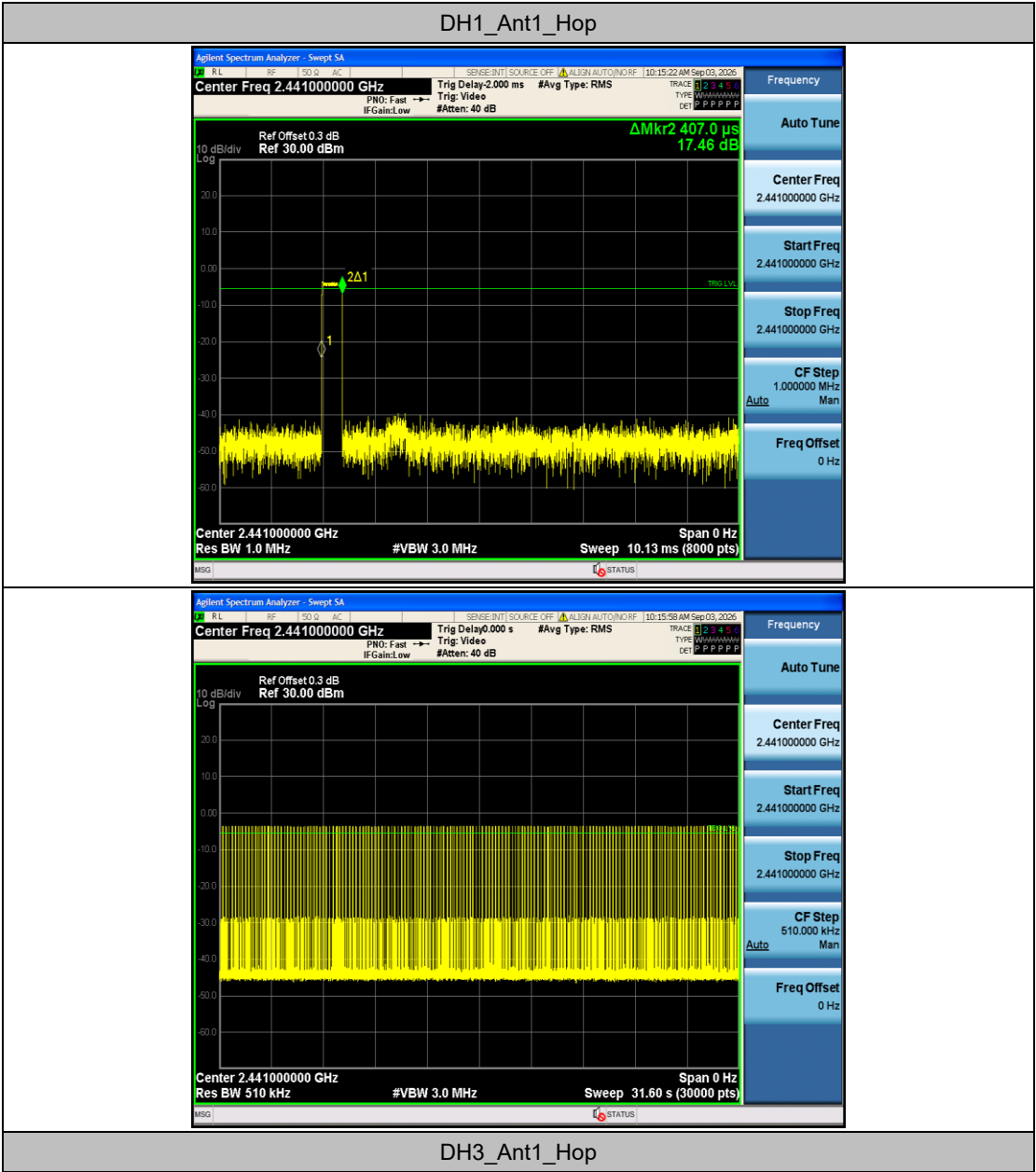


Appendix E: Time of occupancy

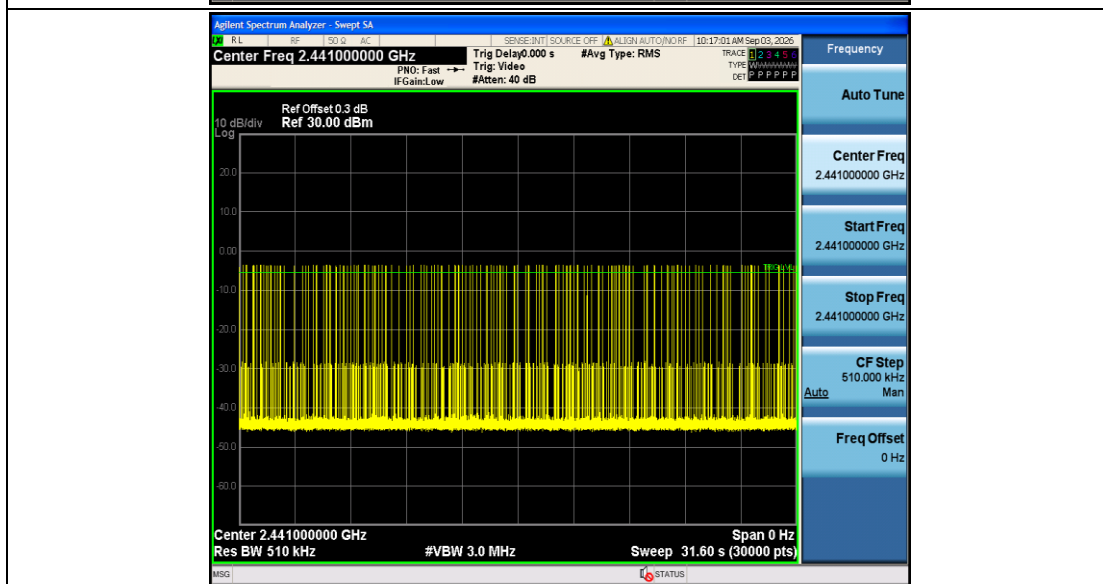
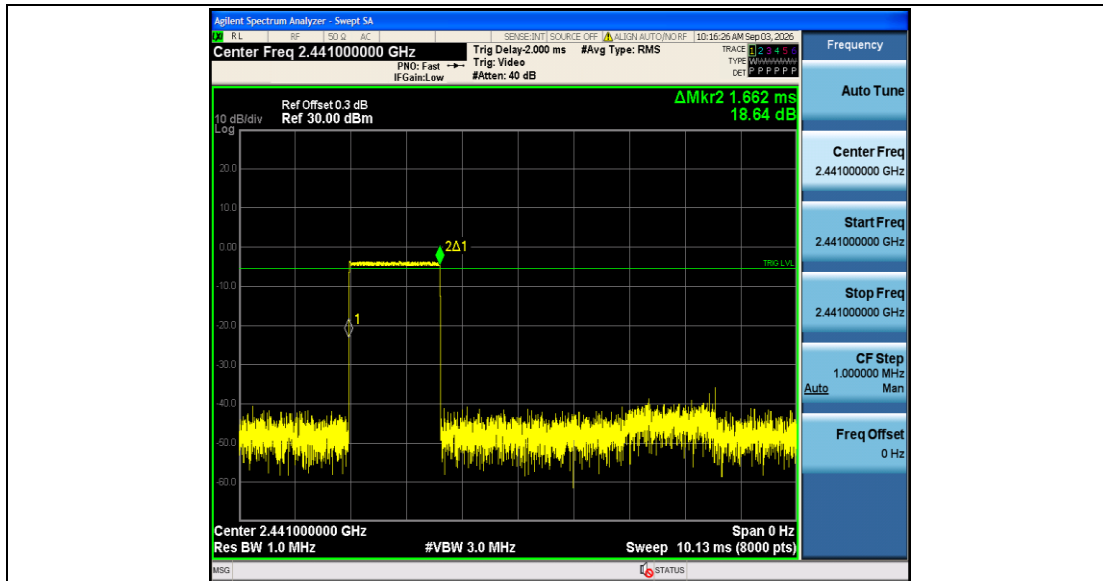
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	314	0.128	≤0.4	PASS
DH3	Ant1	Hop	1.662	161	0.268	≤0.4	PASS
DH5	Ant1	Hop	2.911	103	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	167	0.279	≤0.4	PASS
2DH5	Ant1	Hop	2.915	105	0.306	≤0.4	PASS

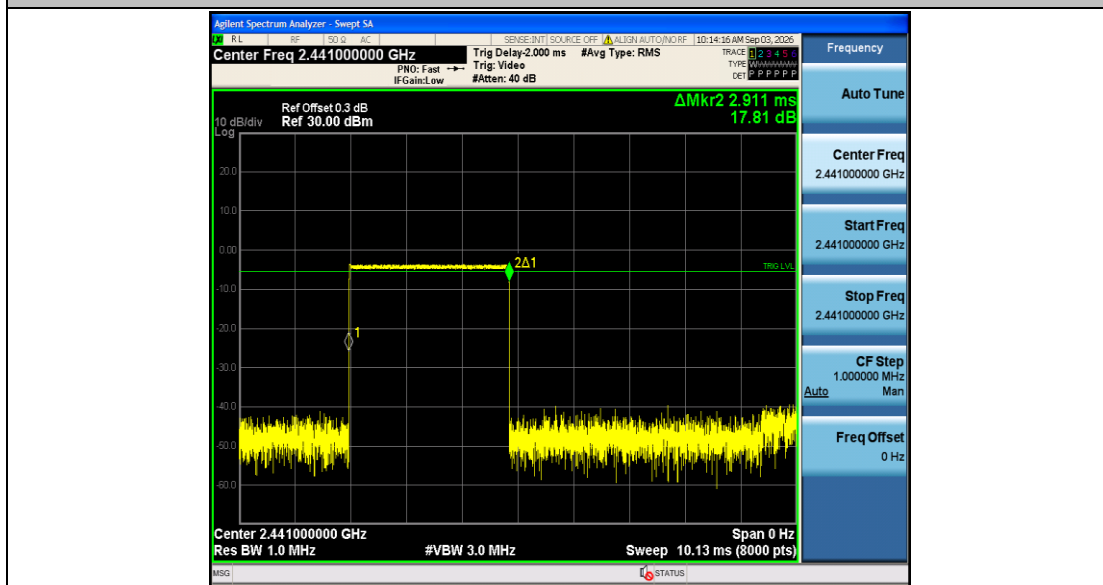
Test Graphs

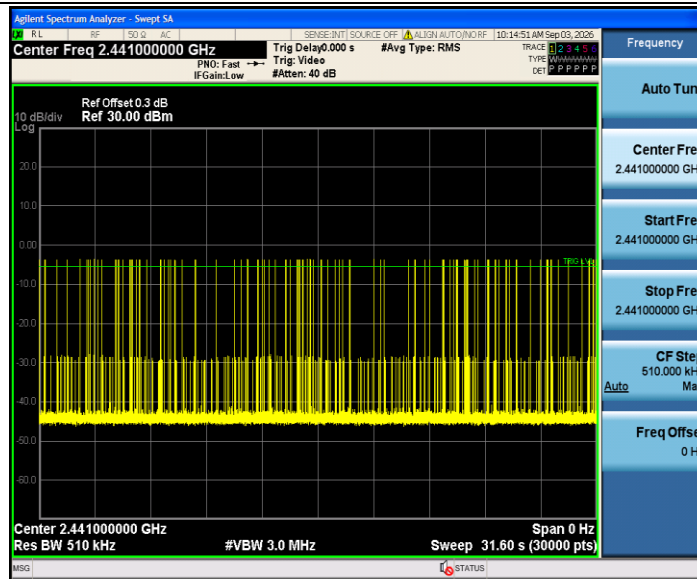


DH3_Ant1_Hop

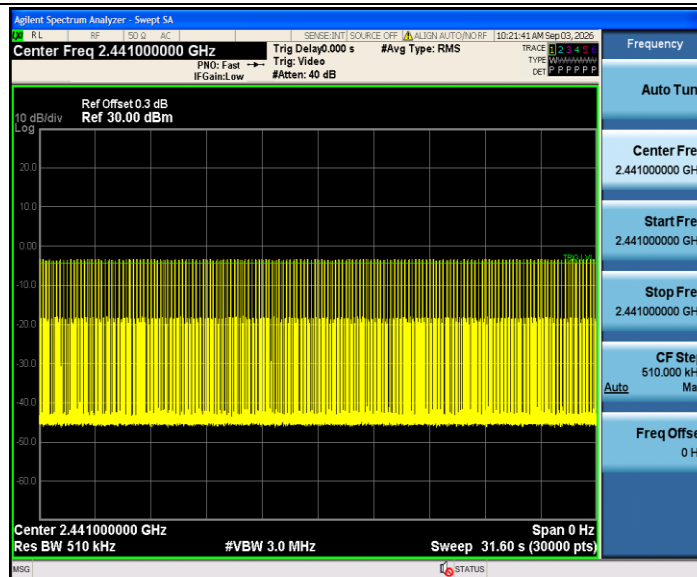
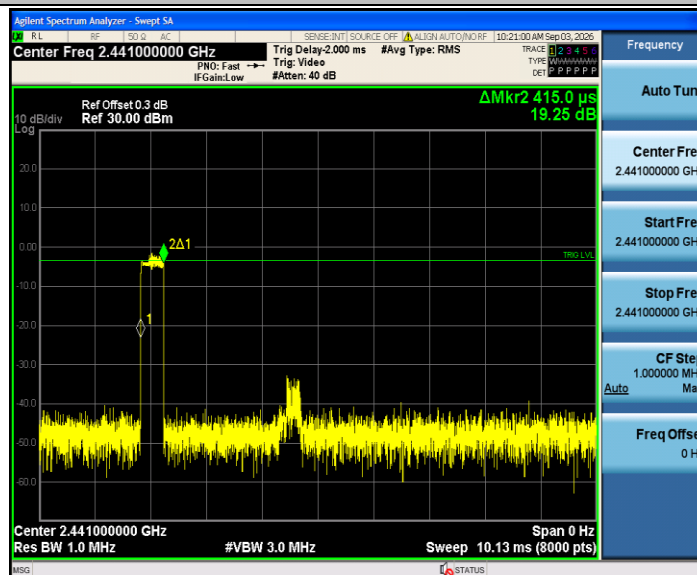


DH5_Ant1_Hop

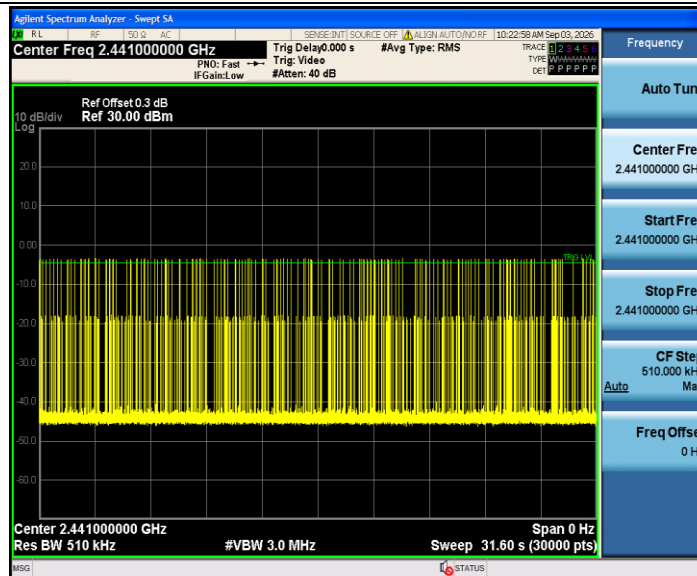
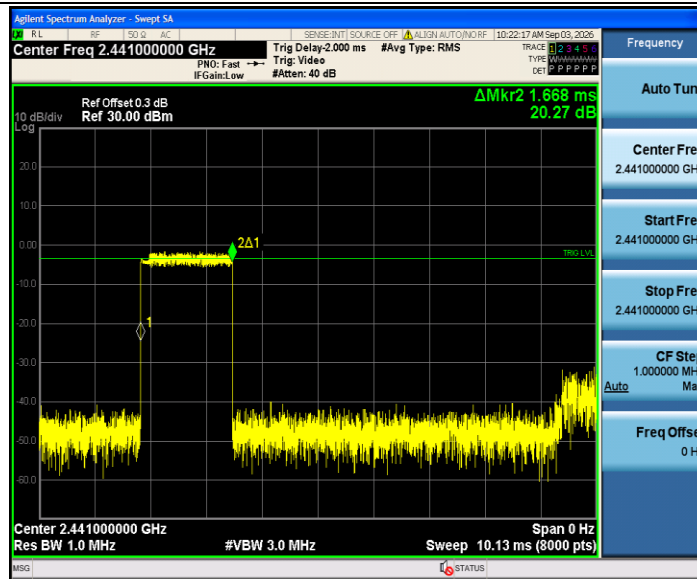




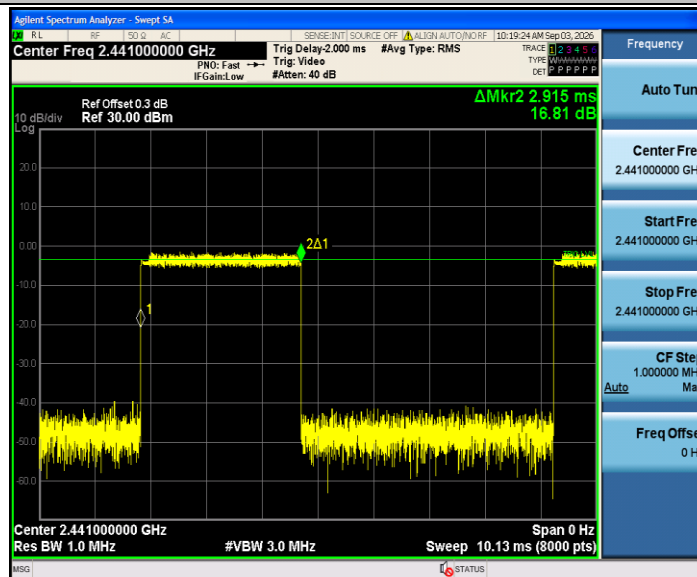
2DH1_Ant1_Hop

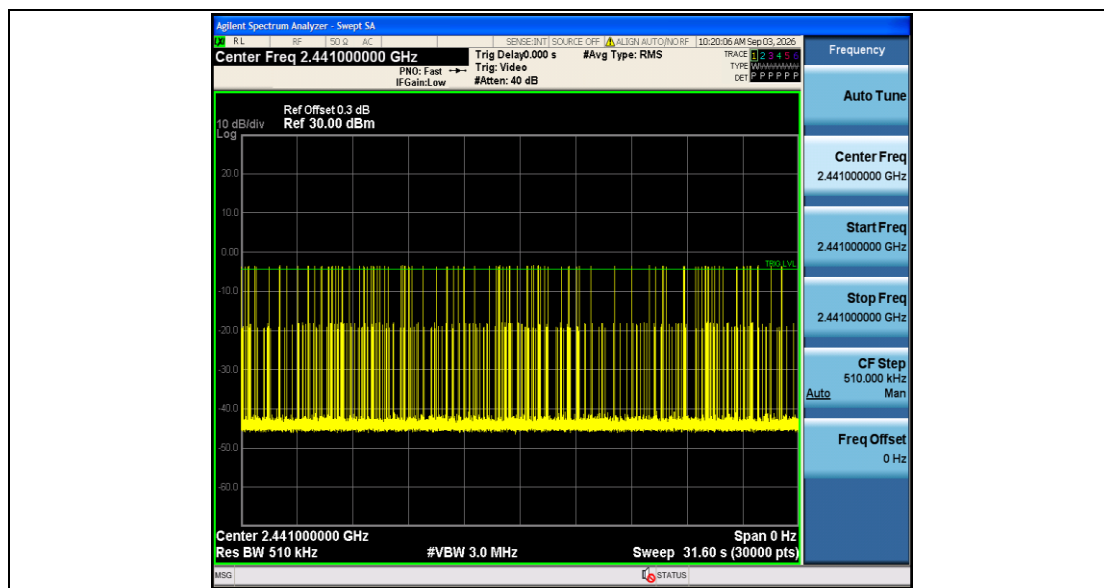


2DH3_Ant1_Hop



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

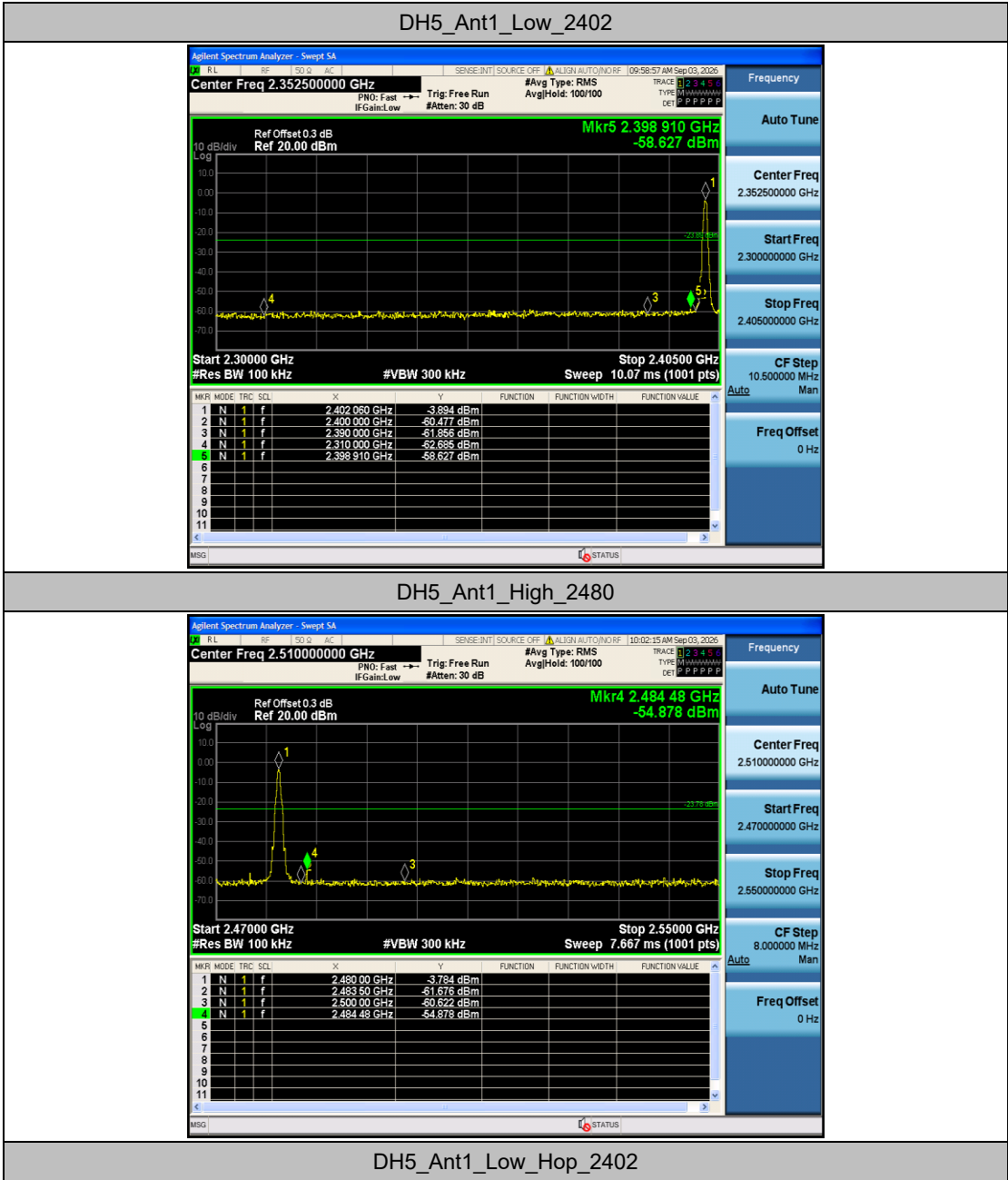


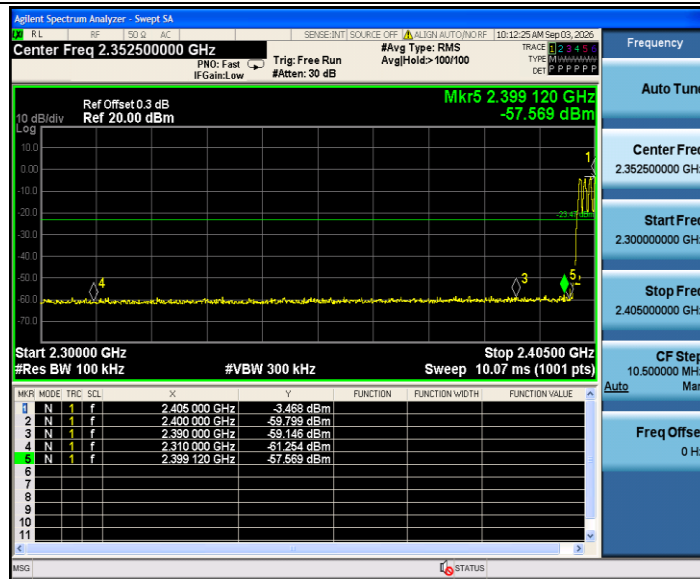
Appendix G: Band edge measurements

Test Result

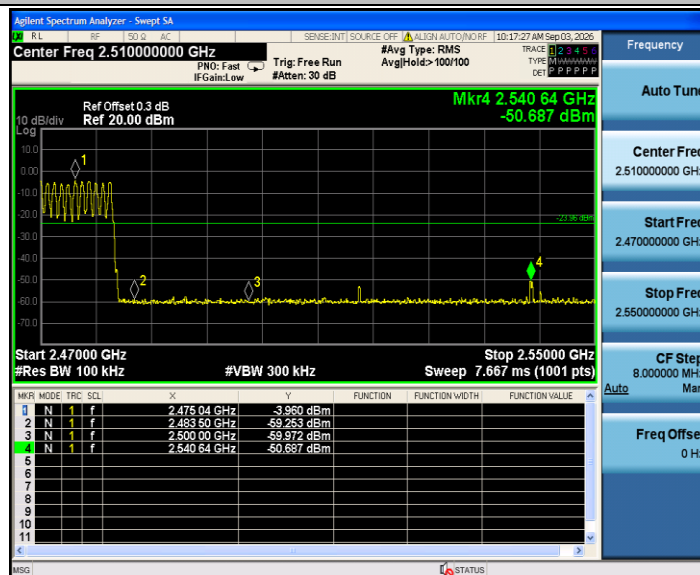
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.89	-58.63	≤-23.89	PASS
		High	2480	-3.78	-54.88	≤-23.78	PASS
		Low	Hop_2402	-3.47	-57.57	≤-23.47	PASS
		High	Hop_2480	-3.96	-50.69	≤-23.96	PASS
2DH5	Ant1	Low	2402	-4.54	-56.26	≤-24.54	PASS
		High	2480	-3.93	-40.42	≤-23.93	PASS
		Low	Hop_2402	-7.05	-58.51	≤-27.05	PASS
		High	Hop_2480	-5.47	-56.49	≤-25.47	PASS

Test Graphs

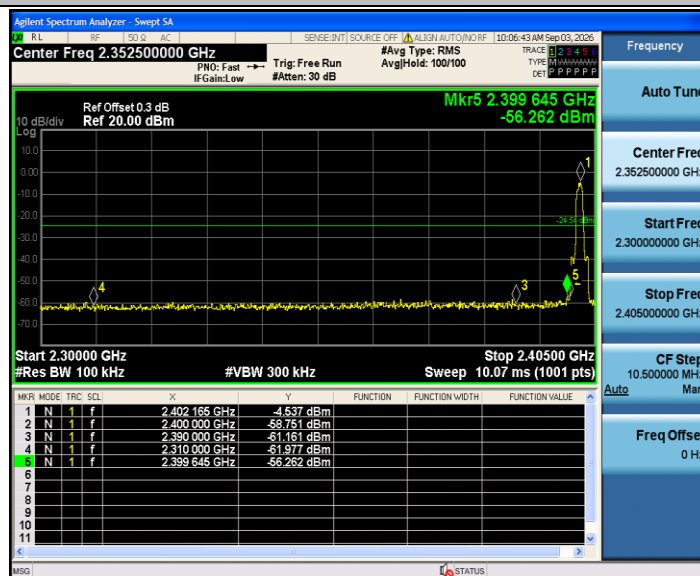




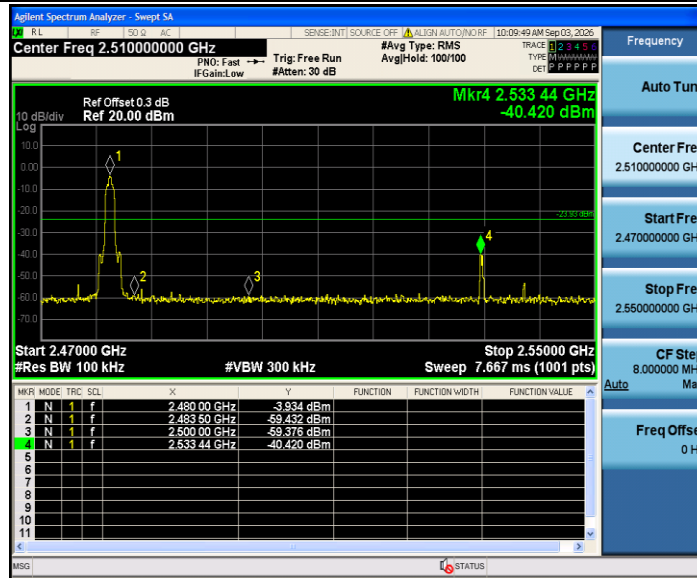
DH5_Ant1_High_Hop_2480



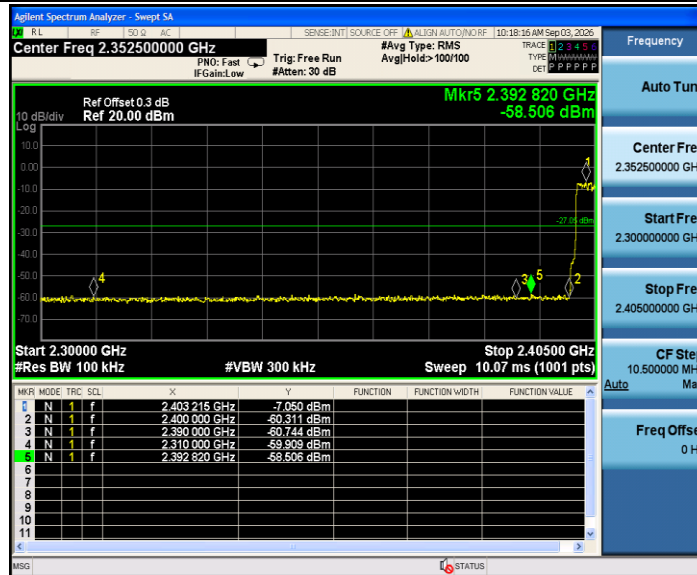
2DH5_Ant1_Low_2402



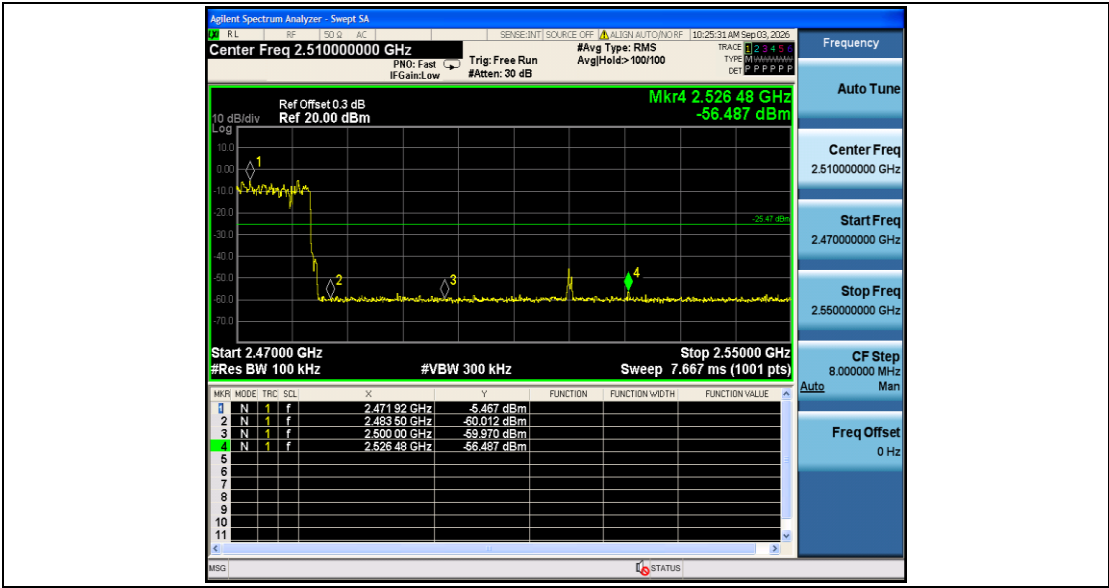
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

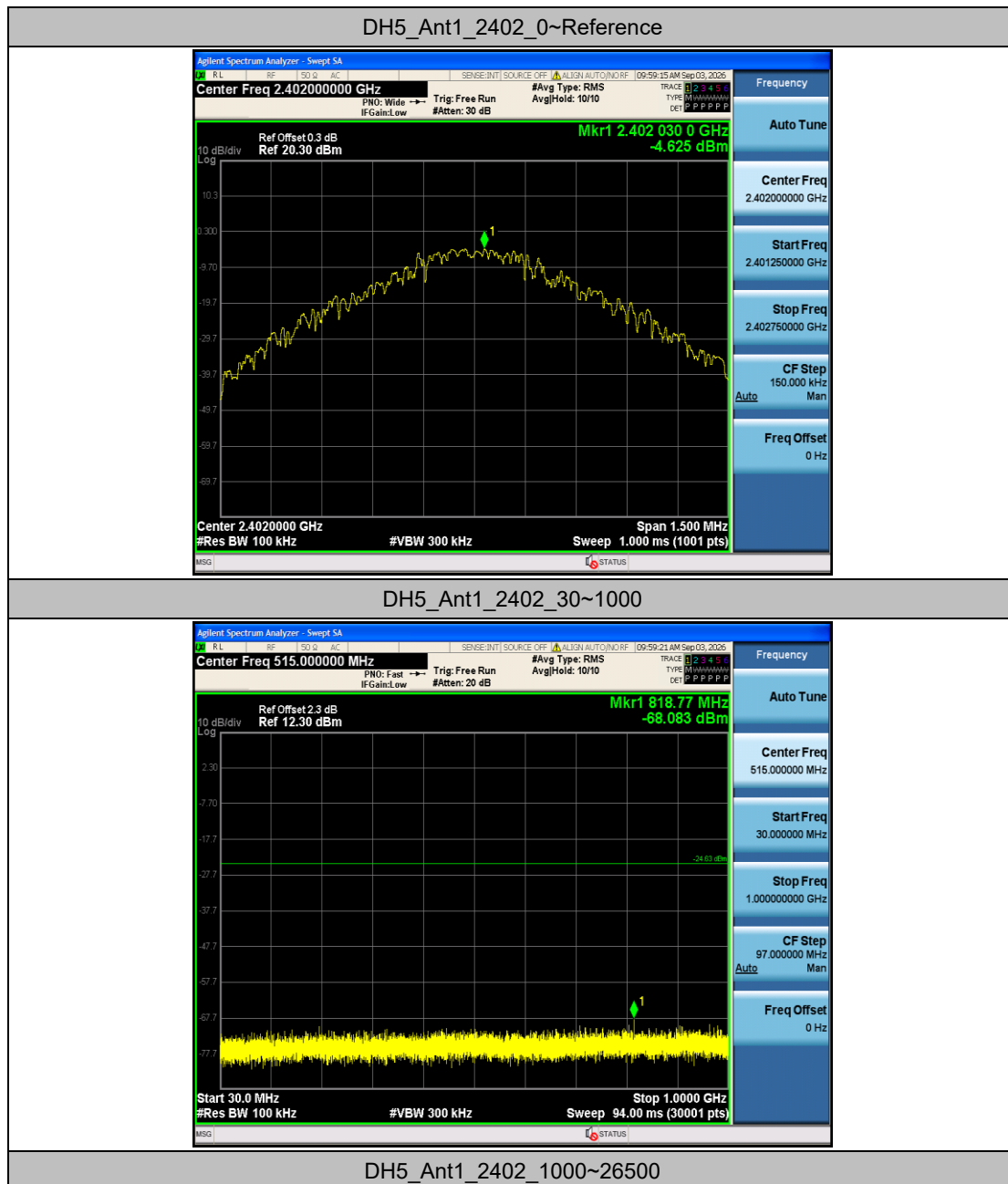


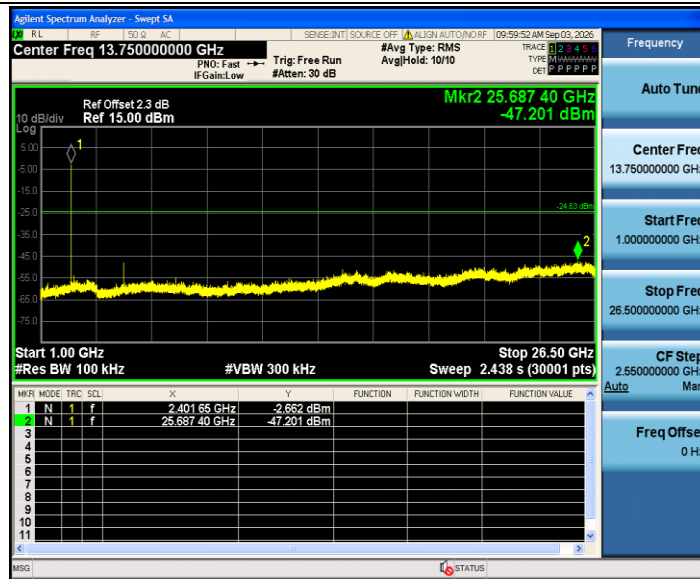
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.63	-4.63	---	PASS
			30~1000	-4.63	-68.08	≤-24.63	PASS
			1000~26500	-4.63	-47.2	≤-24.63	PASS
		2441	Reference	-3.74	-3.74	---	PASS
			30~1000	-3.74	-45.99	≤-23.74	PASS
			1000~26500	-3.74	-46.88	≤-23.74	PASS
		2480	Reference	-4.93	-4.93	---	PASS
			30~1000	-4.93	-69.12	≤-24.93	PASS
			1000~26500	-4.93	-47.1	≤-24.93	PASS
2DH5	Ant1	2402	Reference	-7.06	-7.06	---	PASS
			30~1000	-7.06	-69.35	≤-27.06	PASS
			1000~26500	-7.06	-46.51	≤-27.06	PASS
		2441	Reference	-5.74	-5.74	---	PASS
			30~1000	-5.74	-68.57	≤-25.74	PASS
			1000~26500	-5.74	-47.18	≤-25.74	PASS
		2480	Reference	-4.02	-4.02	---	PASS
			30~1000	-4.02	-68.44	≤-24.02	PASS
			1000~26500	-4.02	-47.1	≤-24.02	PASS

Test Graphs

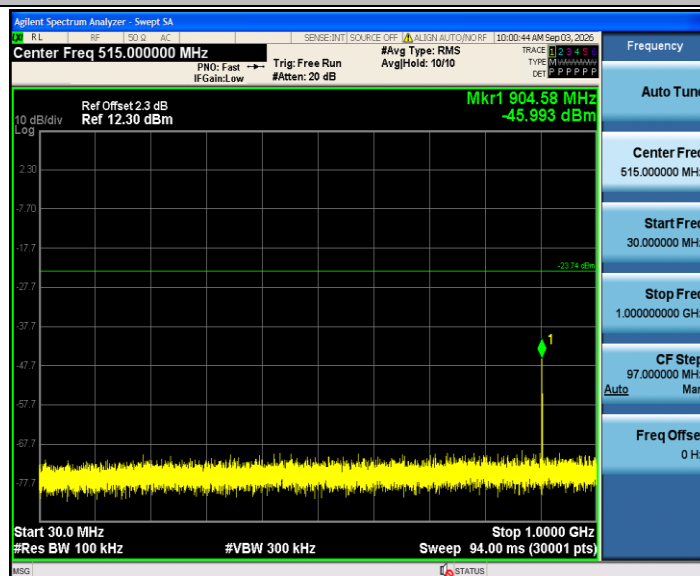




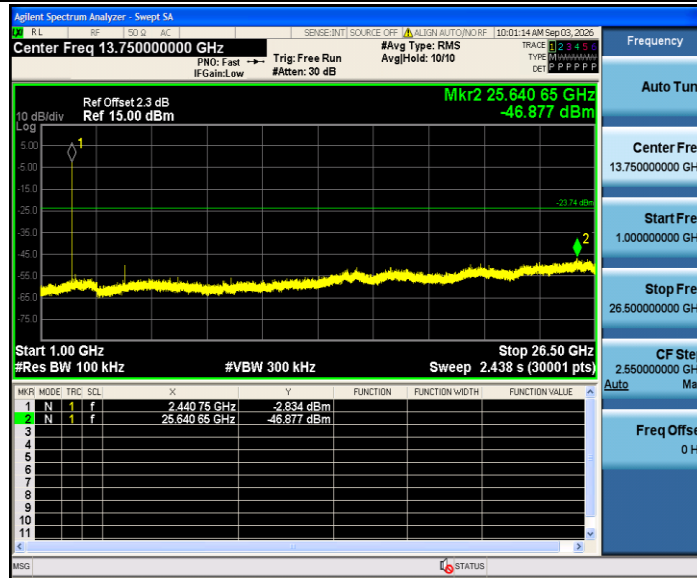
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



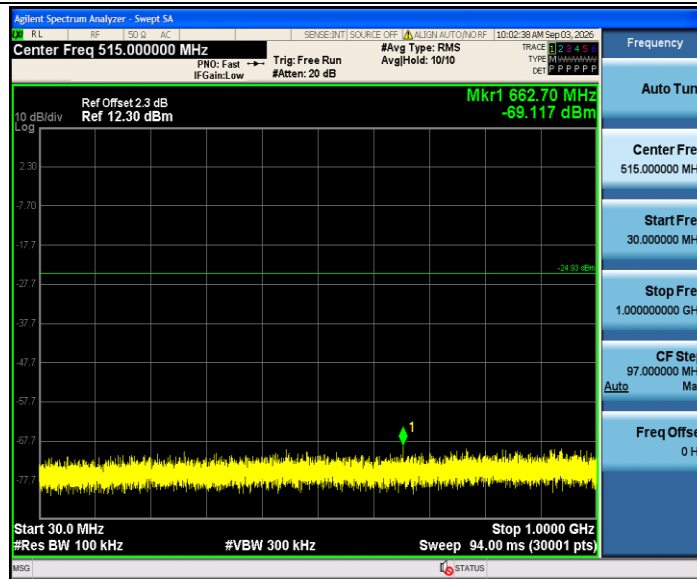
DH5_Ant1_2441_1000~26500



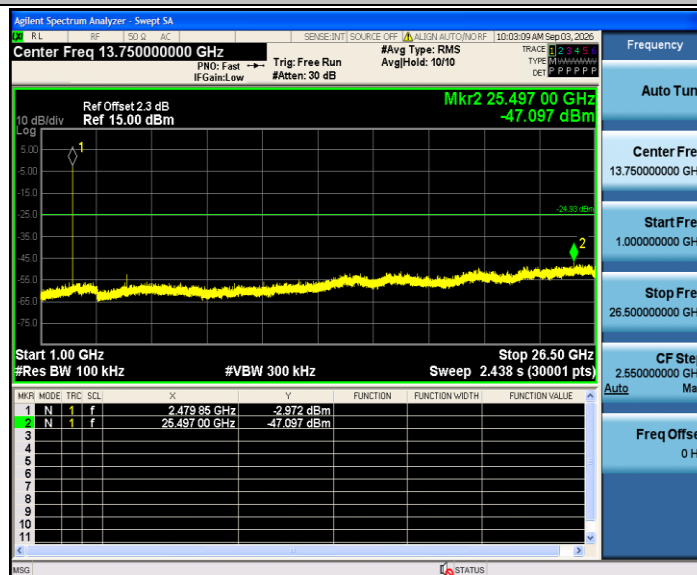
DH5_Ant1_2480_0~Reference



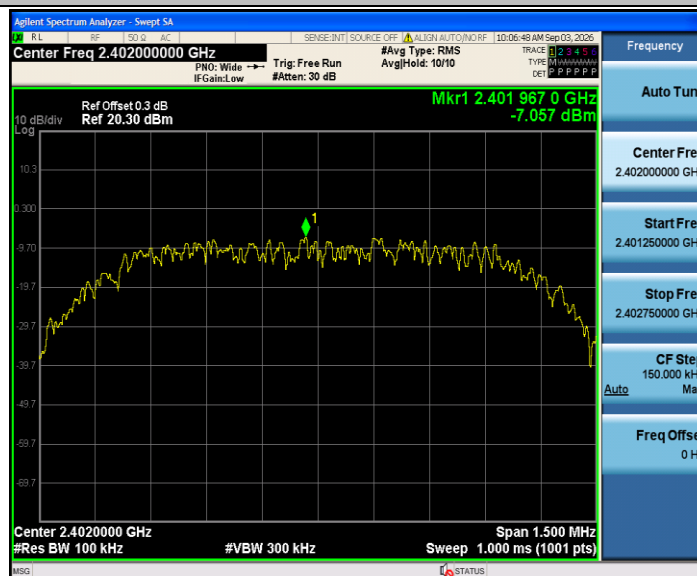
DH5_Ant1_2480_30~1000



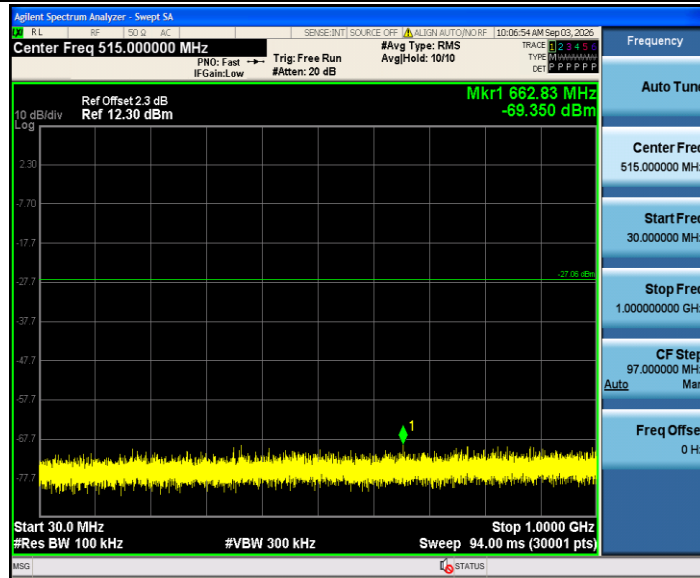
DH5_Ant1_2480_1000~26500



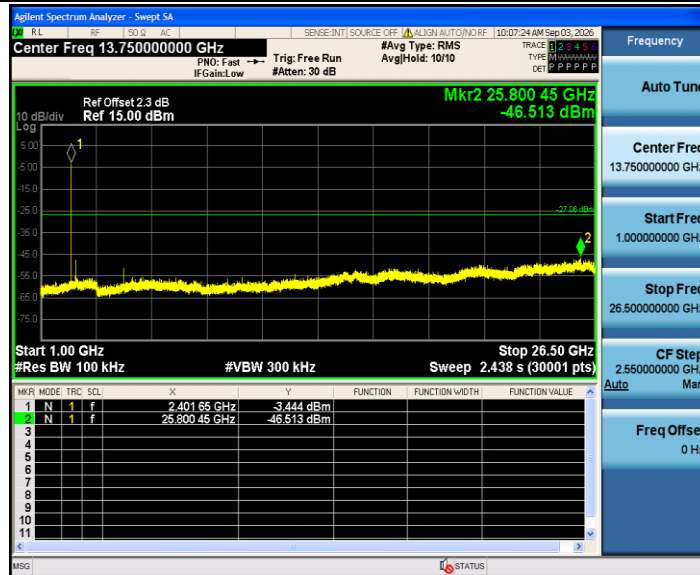
2DH5_Ant1_2402_0~Reference



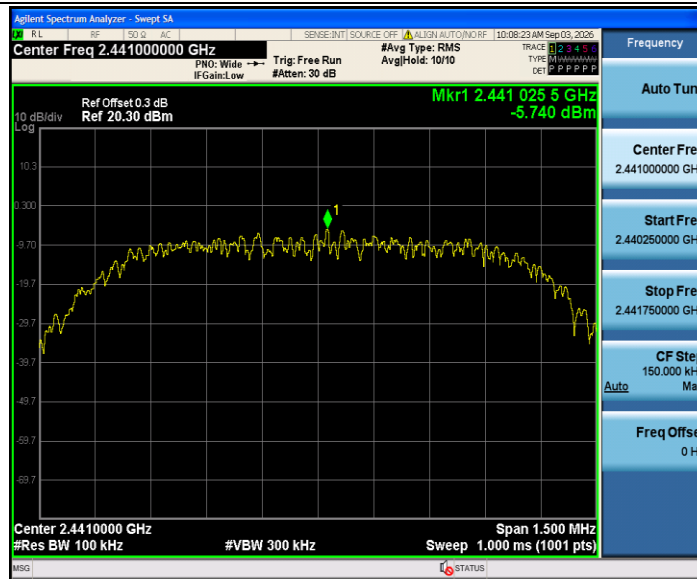
2DH5_Ant1_2402_30~1000



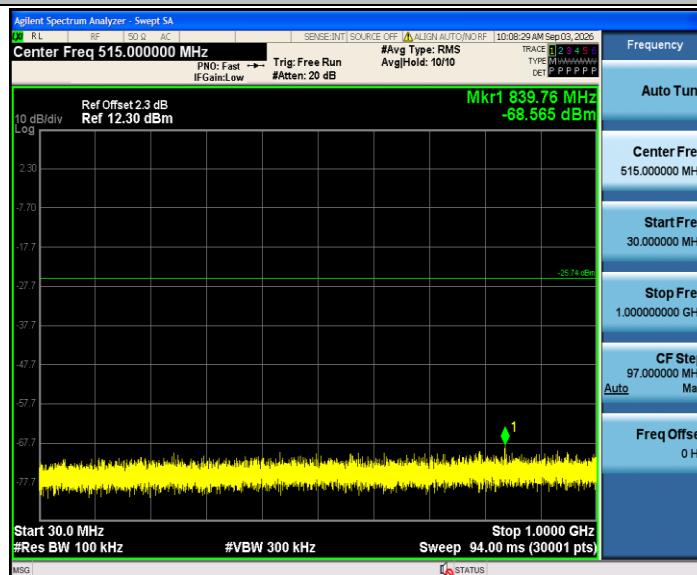
2DH5_Ant1_2402_1000~26500



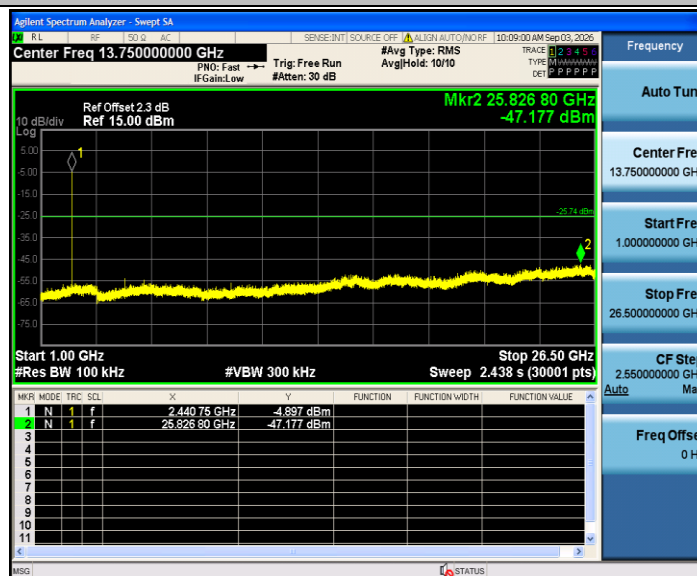
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



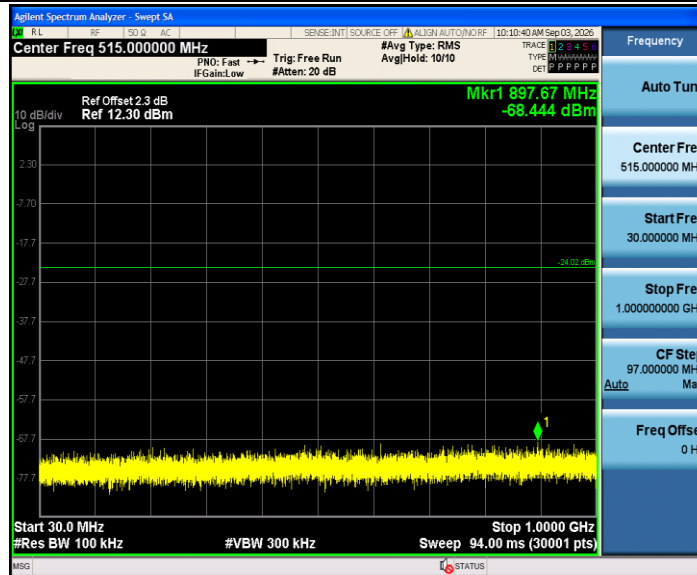
2DH5_Ant1_2441_1000~26500



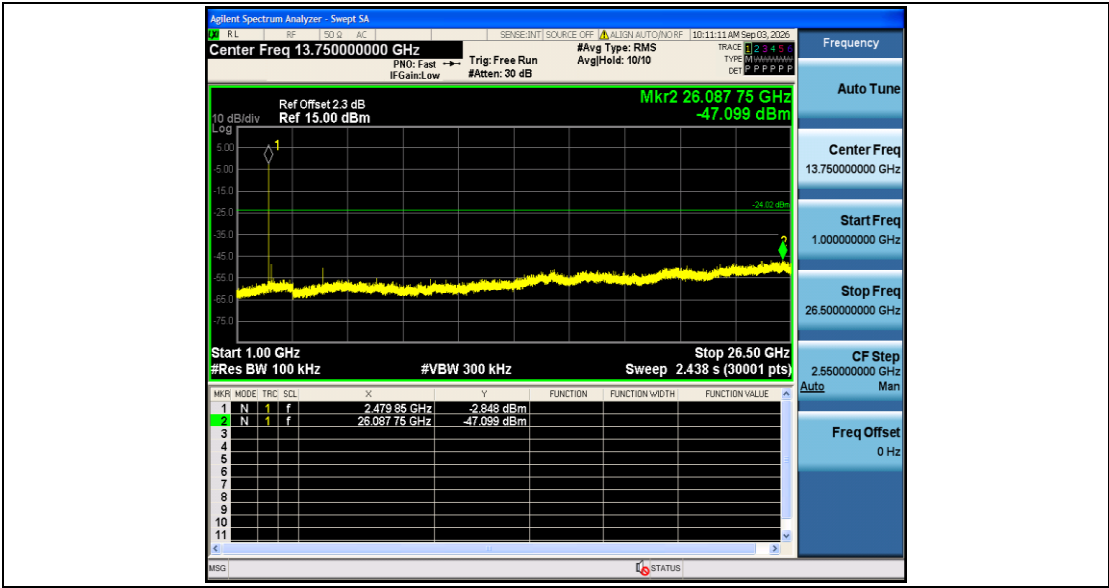
2DH5_Ant1_2480_0~Reference



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	3.74	78.07	1.08	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---