

FCC Appendix RF Test Data for BT

FCC ID : 2AZVL-S350-MAIN-V03

Company : Shenzhen Saiyinwei Electronic Co.,Ltd

EUT : TV soundbar

Model Number : S350-main-V03

Report No. : CTA26091400101

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	2401.544	2402.501	---	---
		2441	0.957	2440.544	2441.501	---	---
		2480	0.939	2479.550	2480.489	---	---
2DH5	Ant1	2402	1.329	2401.343	2402.672	---	---
		2441	1.323	2440.352	2441.675	---	---
		2480	1.284	2479.379	2480.663	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

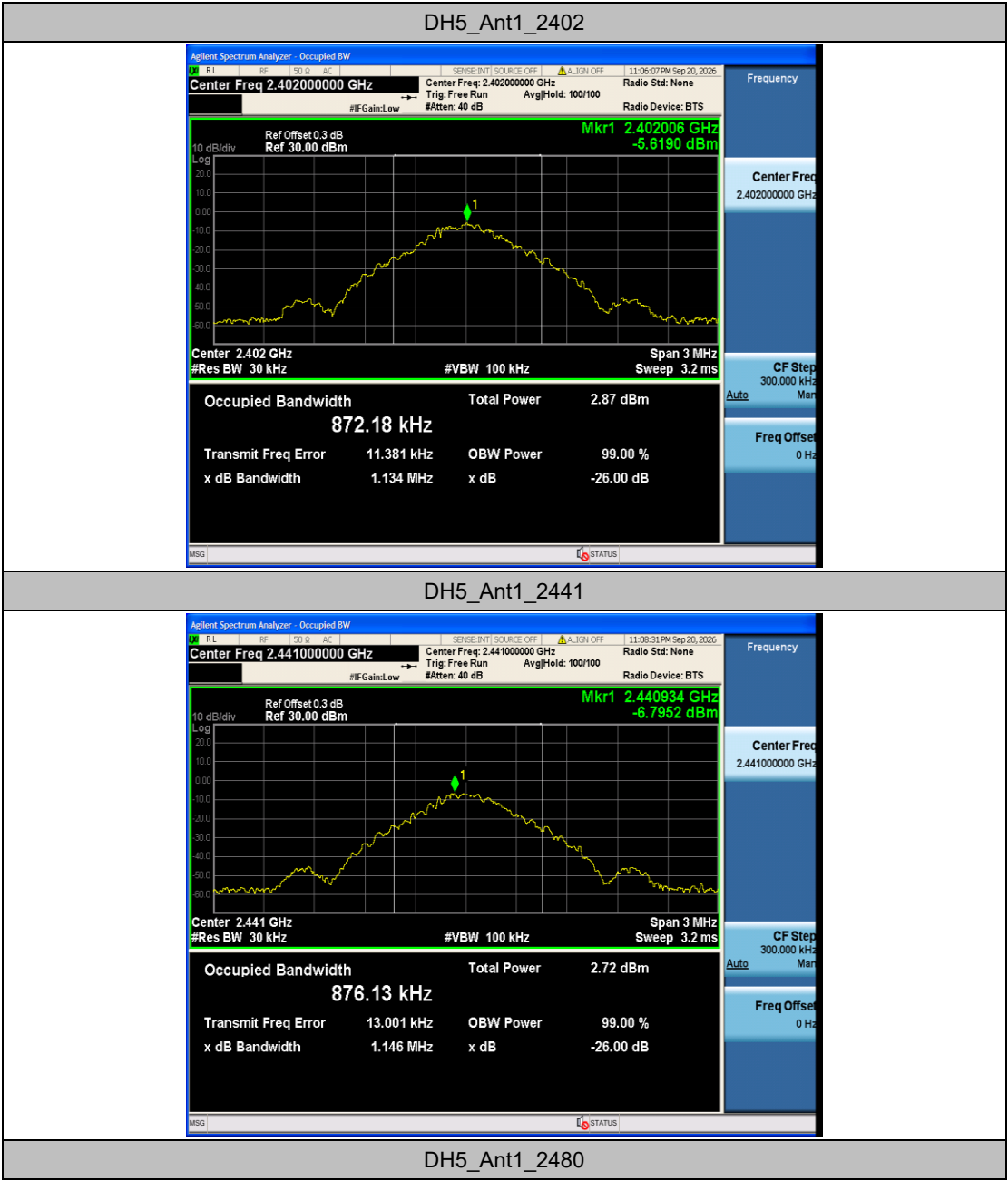


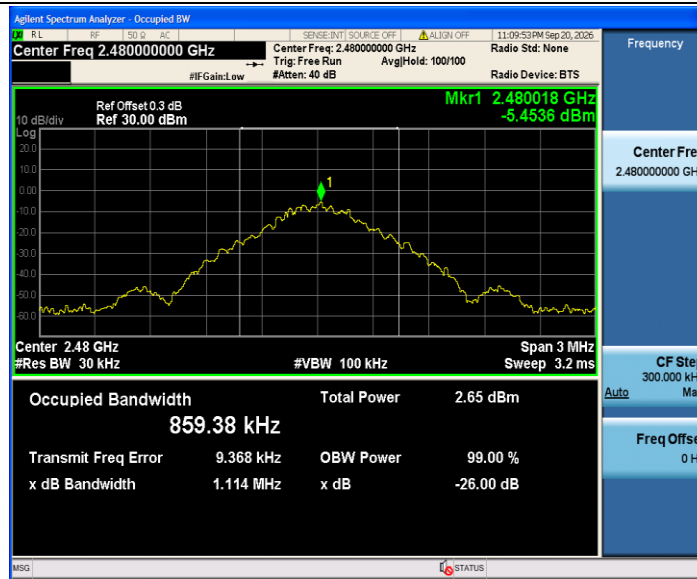
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87218	2401.5753	2402.4475	---	---
		2441	0.87613	2440.5749	2441.4511	---	---
		2480	0.85938	2479.5797	2480.4391	---	---
2DH5	Ant1	2402	1.1980	2401.4108	2402.6088	---	---
		2441	1.1788	2440.4206	2441.5994	---	---
		2480	1.1857	2479.4183	2480.6040	---	---

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	-3.36	≤20.97	PASS
		2441	-3.53	≤20.97	PASS
		2480	-3.81	≤20.97	PASS
2DH5	Ant1	2402	-0.78	≤20.97	PASS
		2441	-0.92	≤20.97	PASS
		2480	-1.23	≤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	1.158	≥ 0.886	PASS

Test Graphs

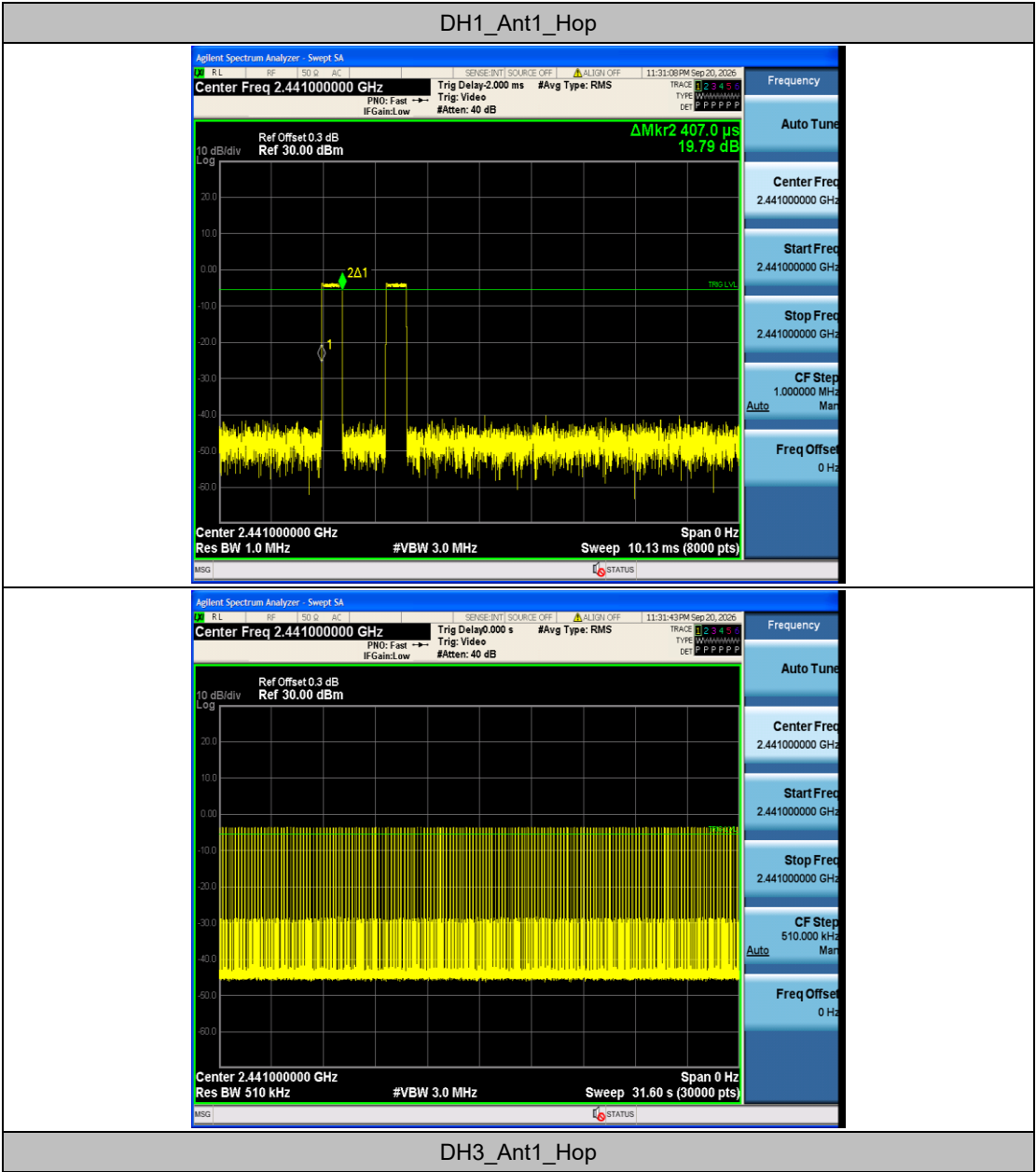


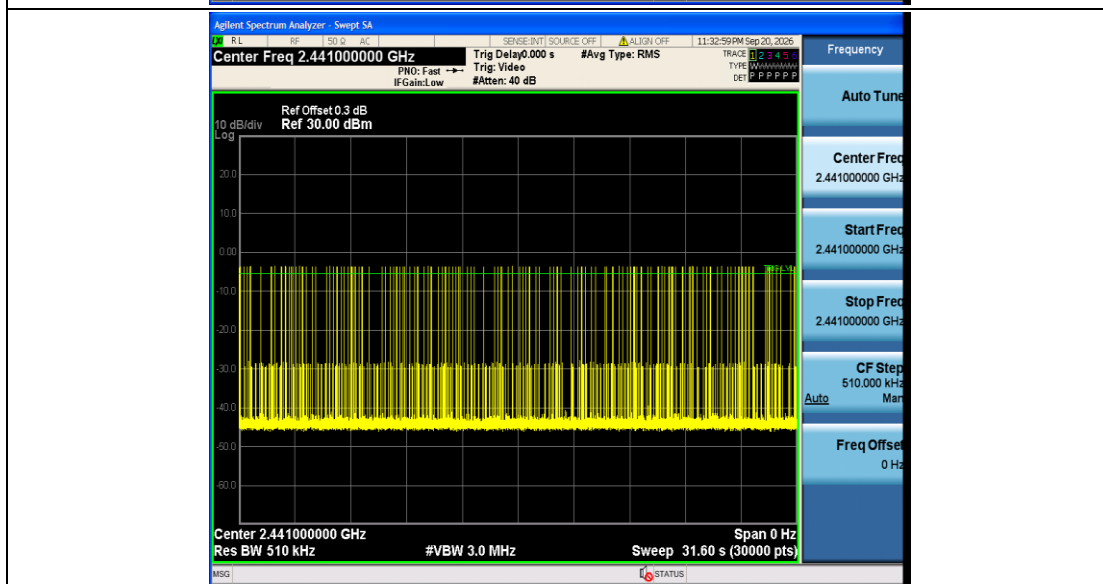
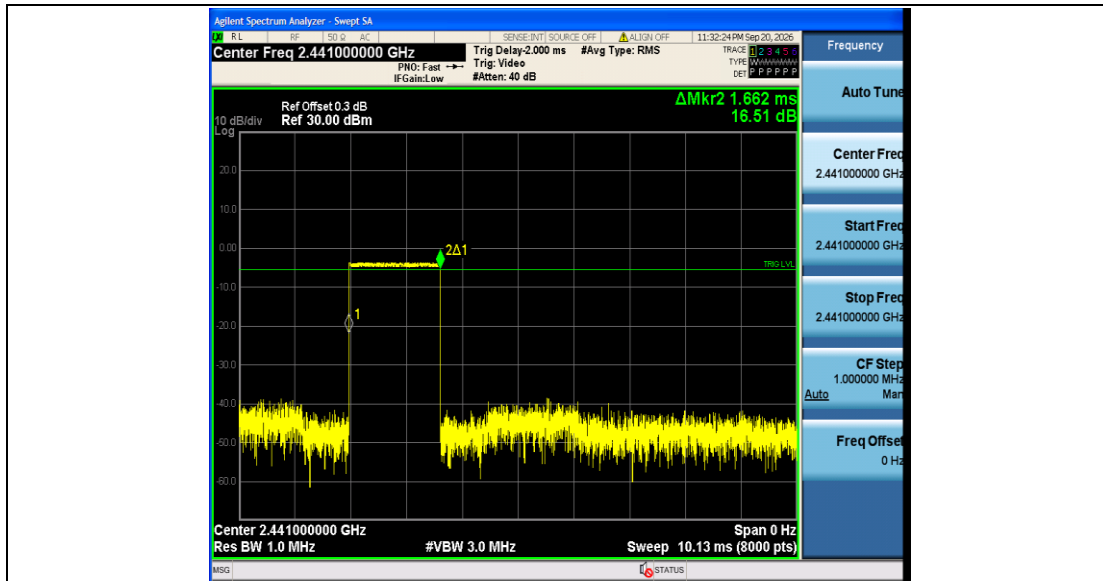
Appendix E: Time of occupancy

Test Result

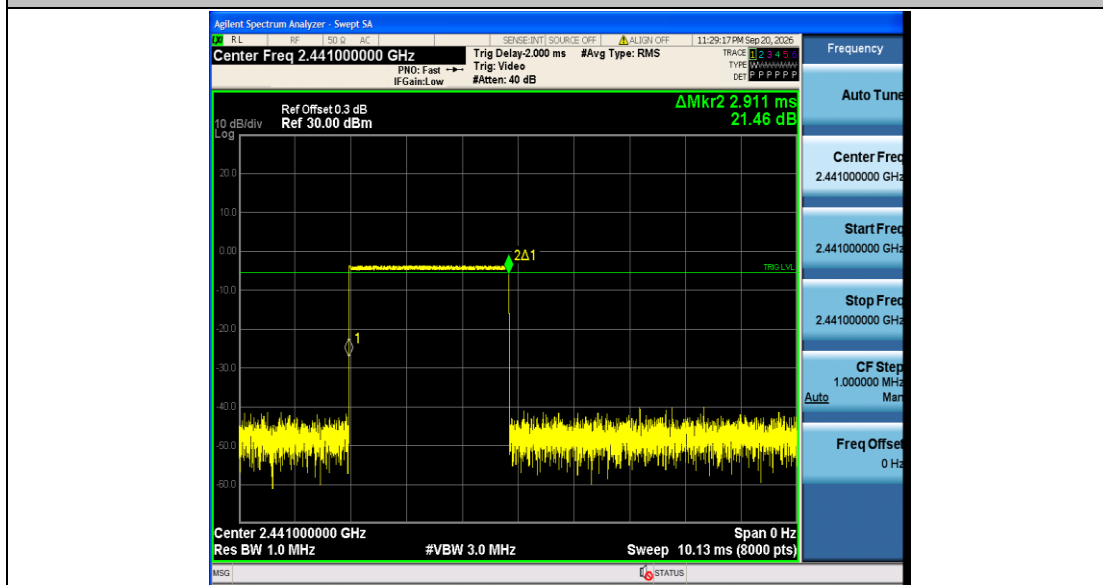
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	154	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.911	100	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	154	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.916	106	0.309	≤0.4	PASS

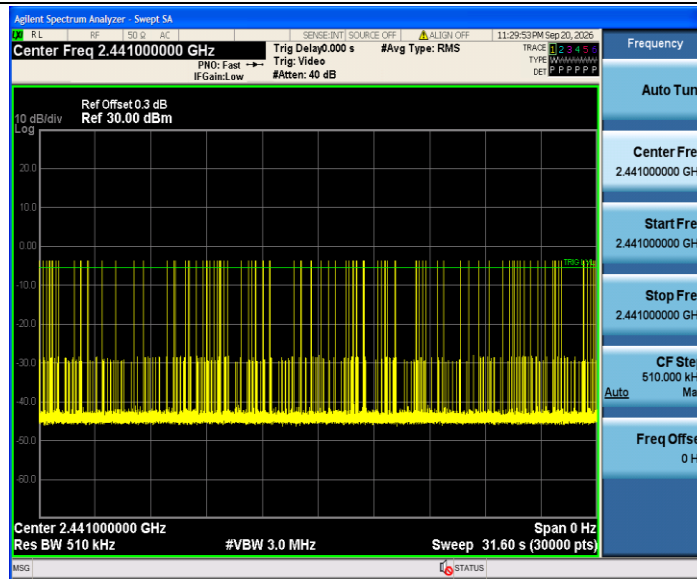
Test Graphs



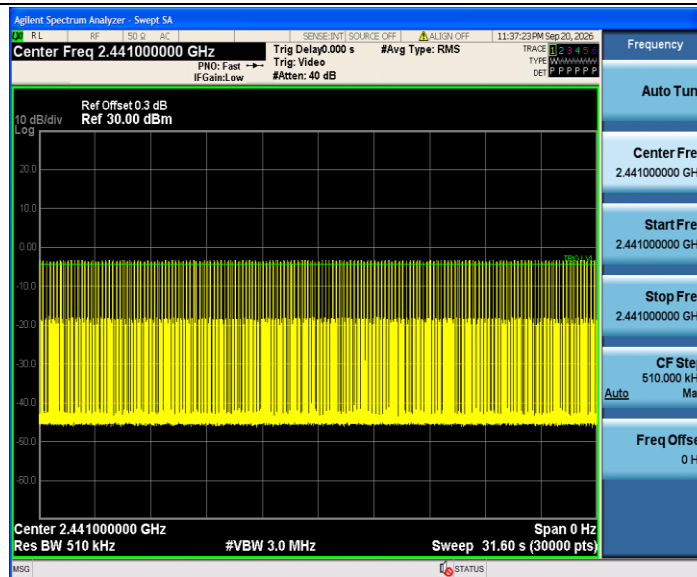
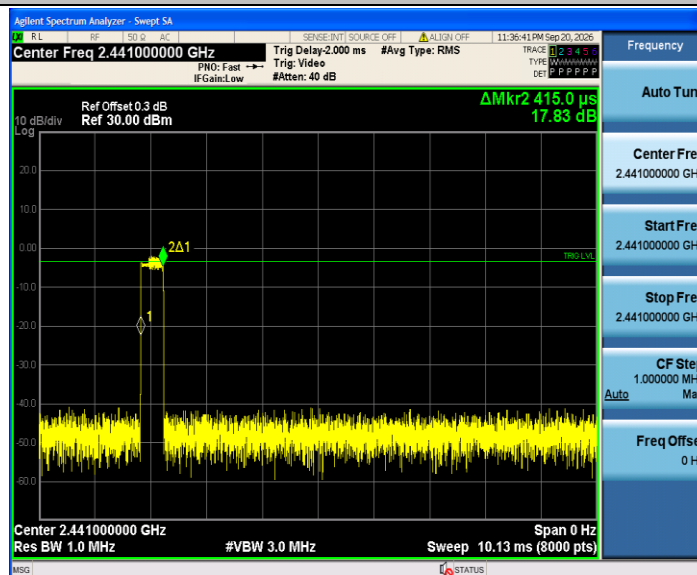


DH5_Ant1_Hop

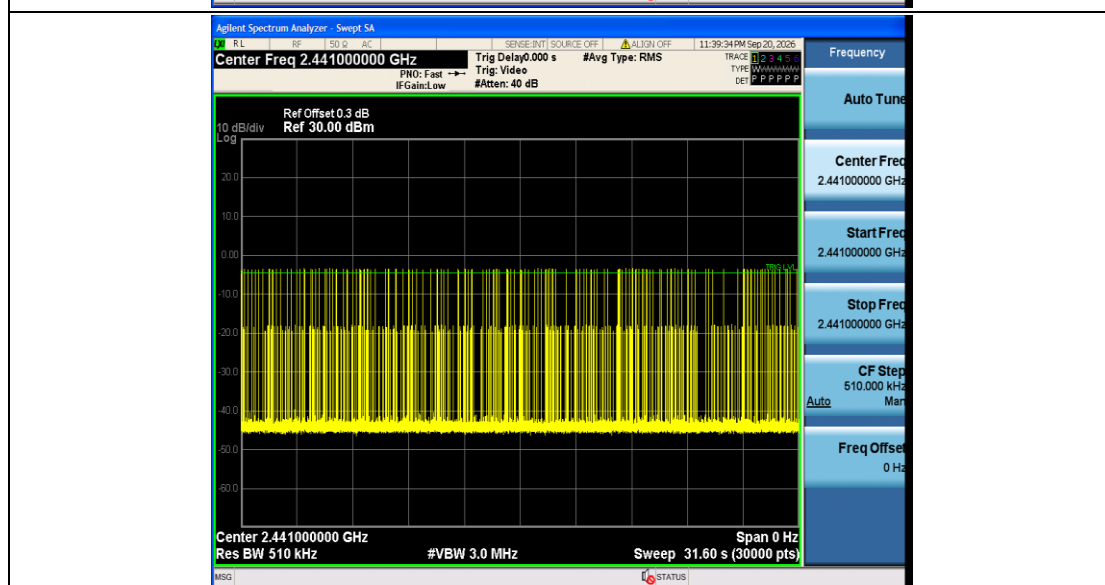
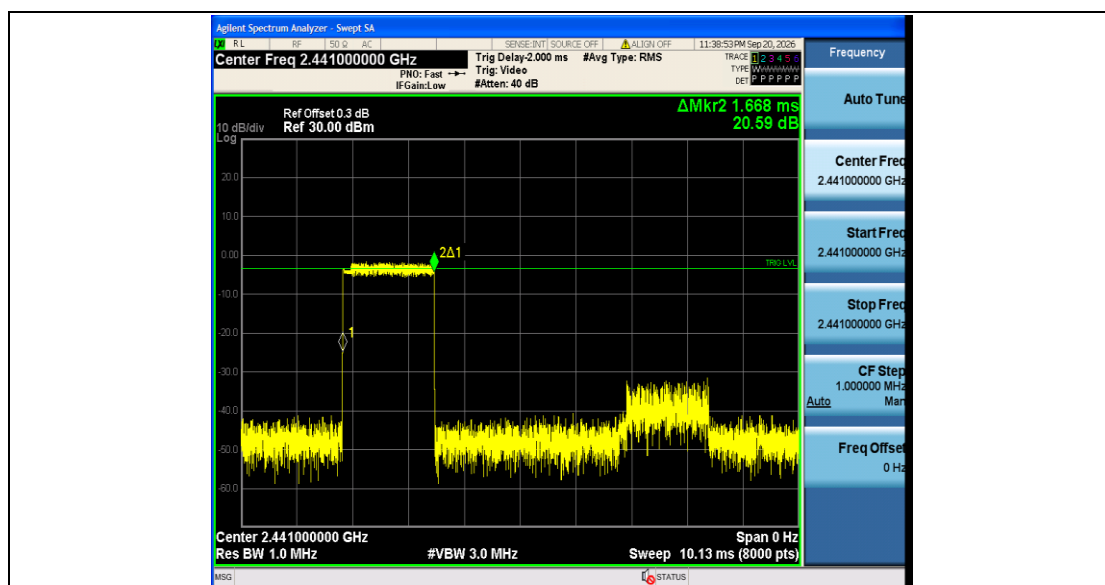




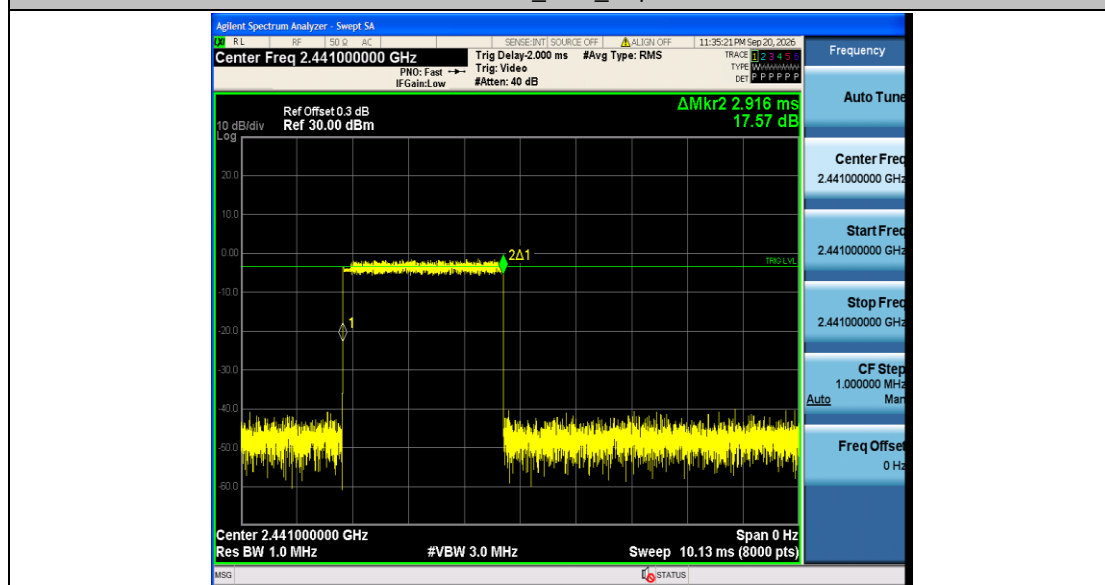
2DH1_Ant1_Hop

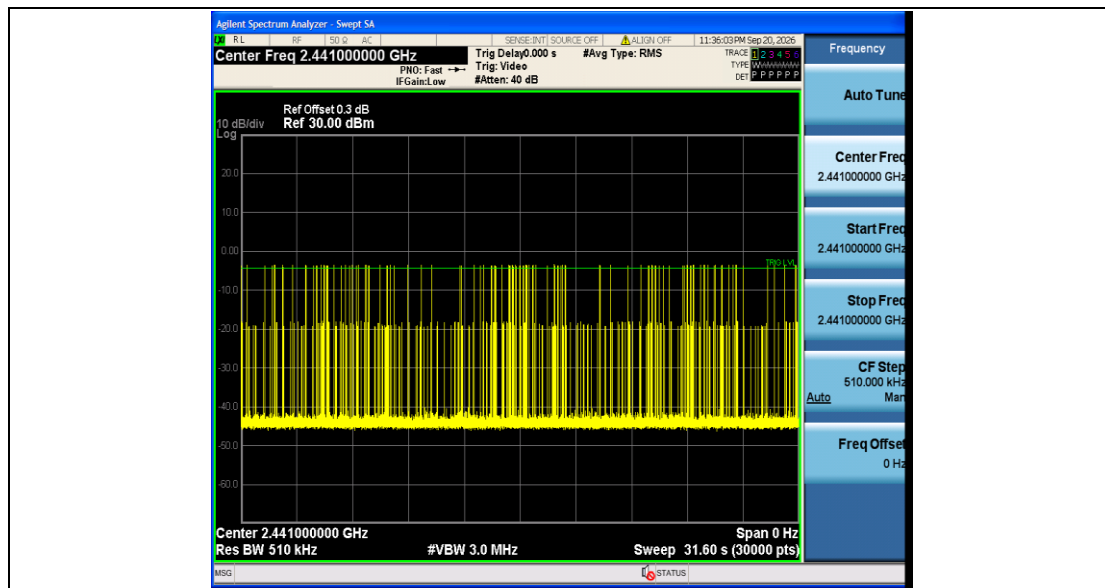


2DH3_Ant1_Hop



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

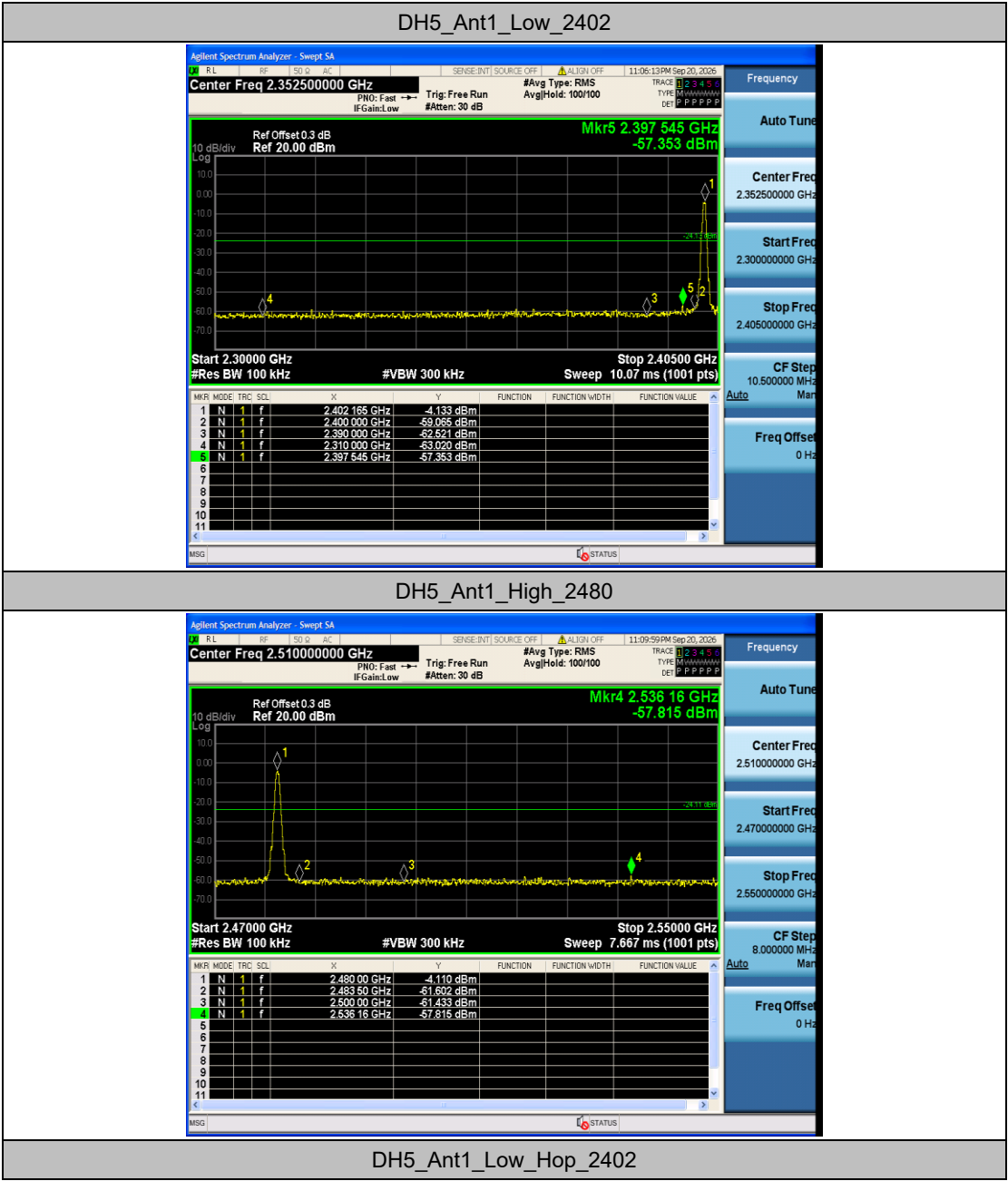


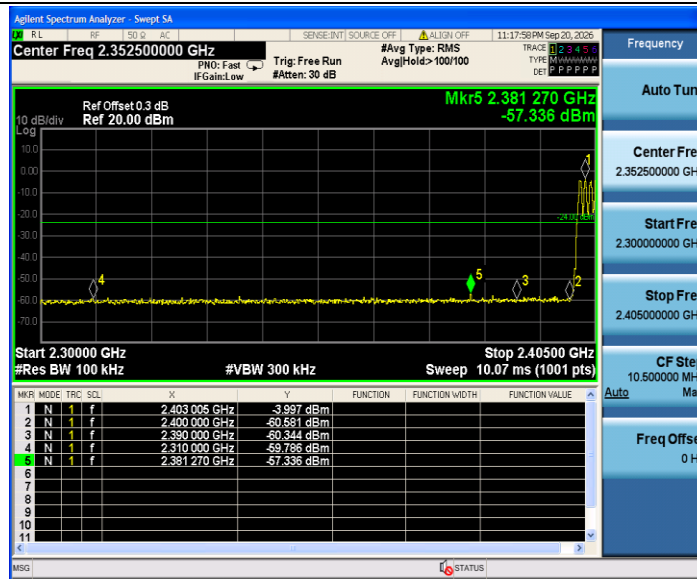
Appendix G: Band edge measurements

Test Result

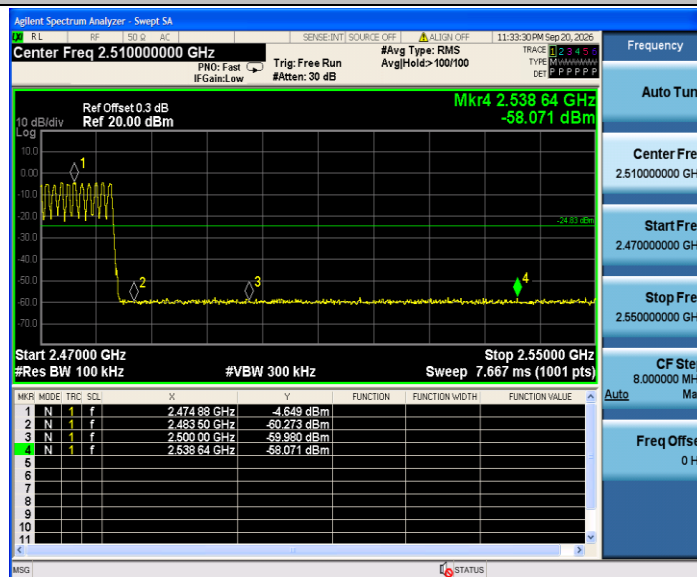
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.13	-57.35	≤ -24.13	PASS
		High	2480	-4.11	-57.82	≤ -24.11	PASS
		Low	Hop_2402	-4.00	-57.34	≤ -24	PASS
		High	Hop_2480	-4.83	-58.07	≤ -24.83	PASS
2DH5	Ant1	Low	2402	-4.86	-57.27	≤ -24.86	PASS
		High	2480	-4.56	-58.1	≤ -24.56	PASS
		Low	Hop_2402	-6.55	-58.33	≤ -26.55	PASS
		High	Hop_2480	-3.92	-57.68	≤ -23.92	PASS

Test Graphs

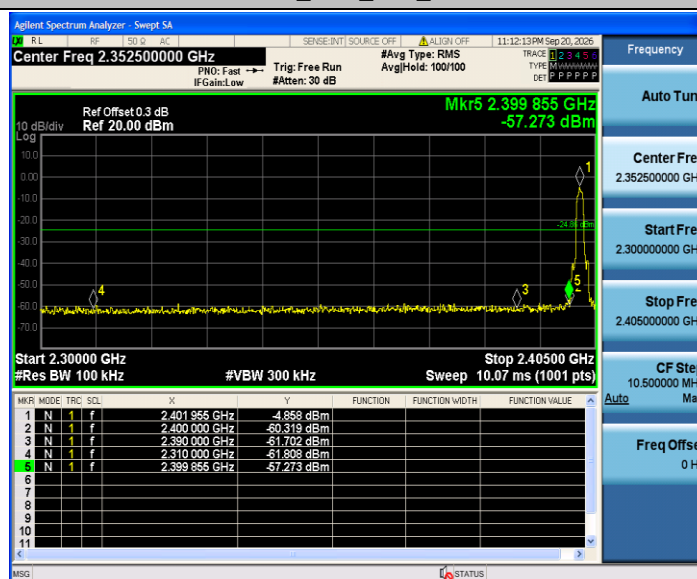




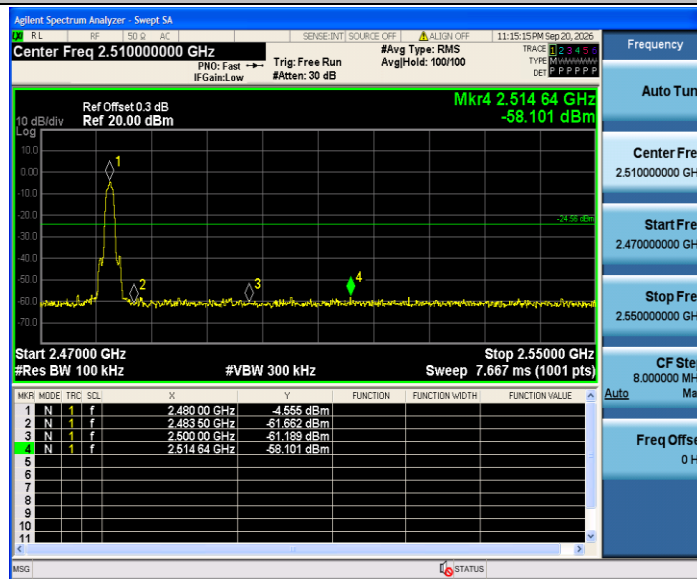
DH5_Ant1_High_Hop_2480



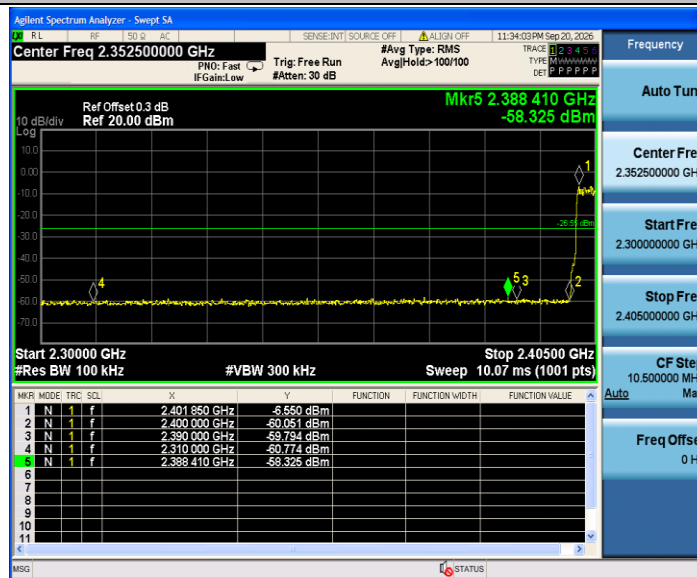
2DH5_Ant1_Low_2402



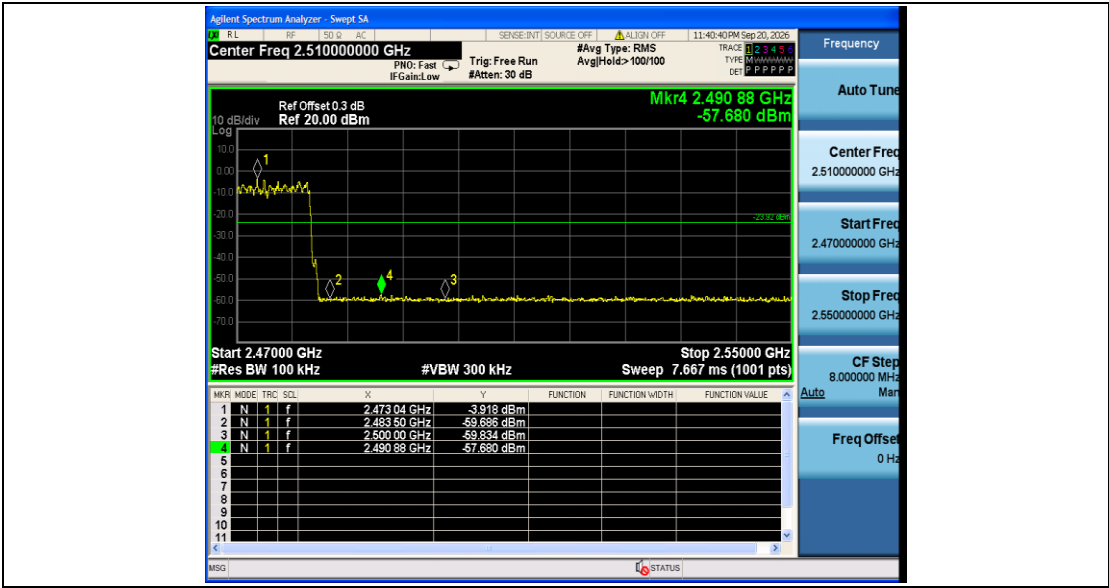
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

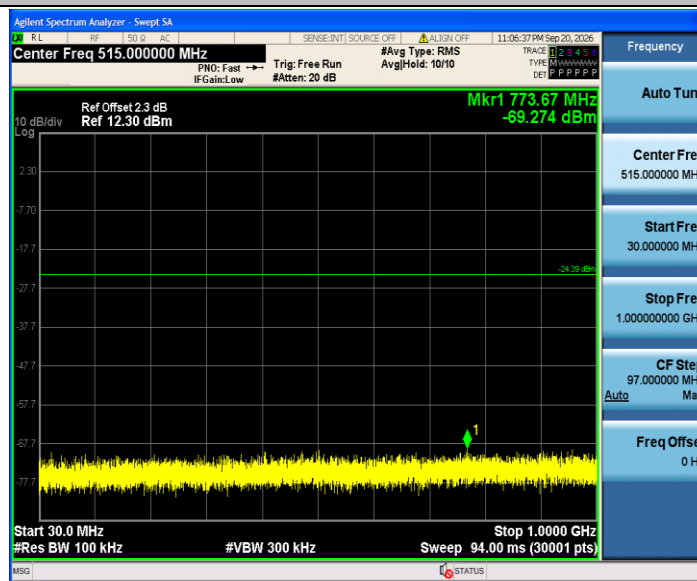
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.39	-4.39	---	PASS
			30~1000	-4.39	-69.27	≤-24.39	PASS
			1000~26500	-4.39	-46.97	≤-24.39	PASS
		2441	Reference	-5.03	-5.03	---	PASS
			30~1000	-5.03	-69.45	≤-25.03	PASS
			1000~26500	-5.03	-47.41	≤-25.03	PASS
		2480	Reference	-5.37	-5.37	---	PASS
			30~1000	-5.37	-69.38	≤-25.37	PASS
			1000~26500	-5.37	-47.08	≤-25.37	PASS
2DH5	Ant1	2402	Reference	-5.91	-5.91	---	PASS
			30~1000	-5.91	-68.94	≤-25.91	PASS
			1000~26500	-5.91	-46.3	≤-25.91	PASS
		2441	Reference	-6.18	-6.18	---	PASS
			30~1000	-6.18	-68.93	≤-26.18	PASS
			1000~26500	-6.18	-46.74	≤-26.18	PASS
		2480	Reference	-5.20	-5.20	---	PASS
			30~1000	-5.20	-69.5	≤-25.2	PASS
			1000~26500	-5.20	-47.91	≤-25.2	PASS

Test Graphs

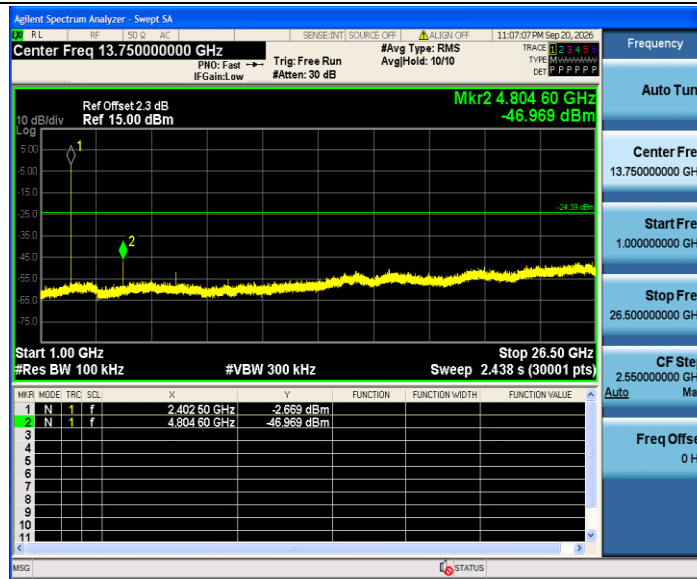
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



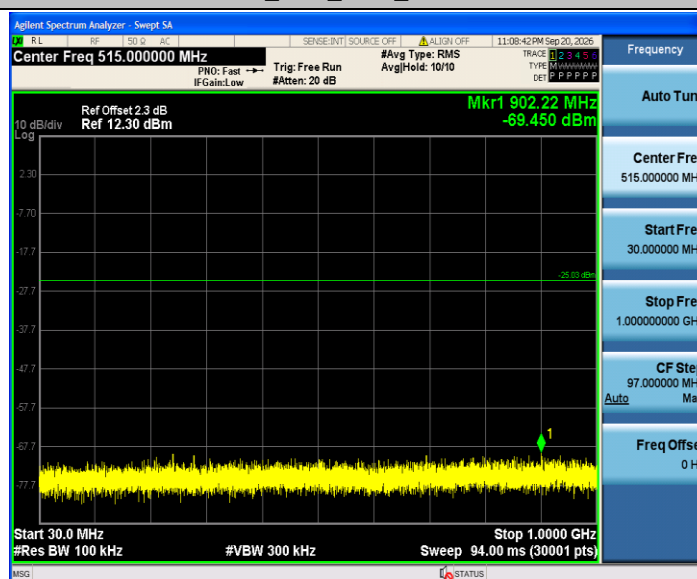
DH5_Ant1_2402_1000~26500



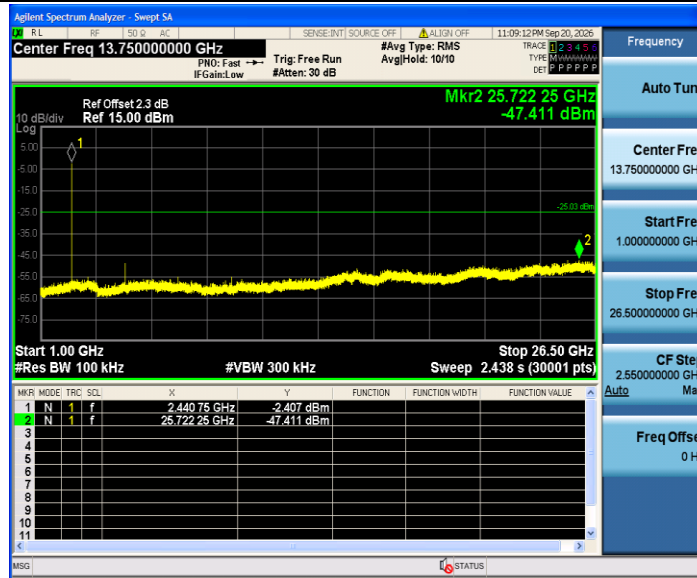
DH5_Ant1_2441_0~Reference



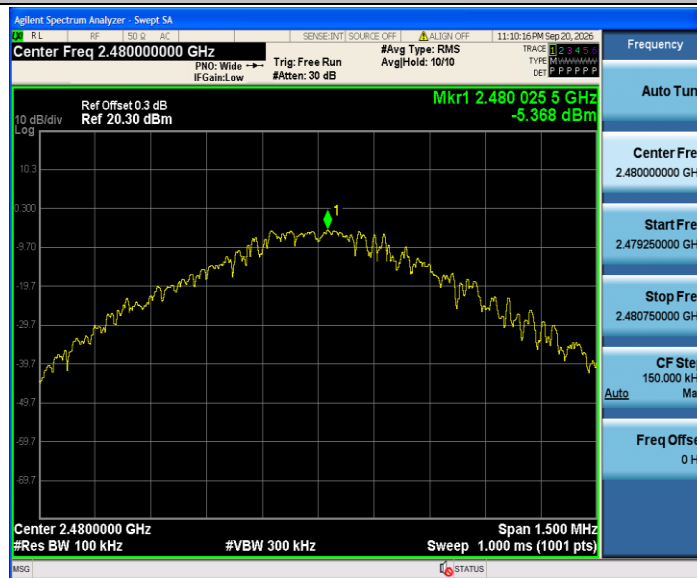
DH5_Ant1_2441_30~1000



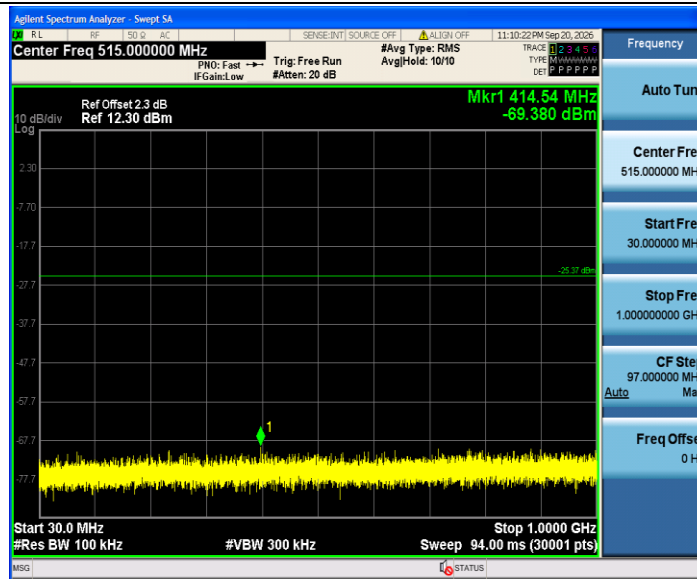
DH5_Ant1_2441_1000~26500



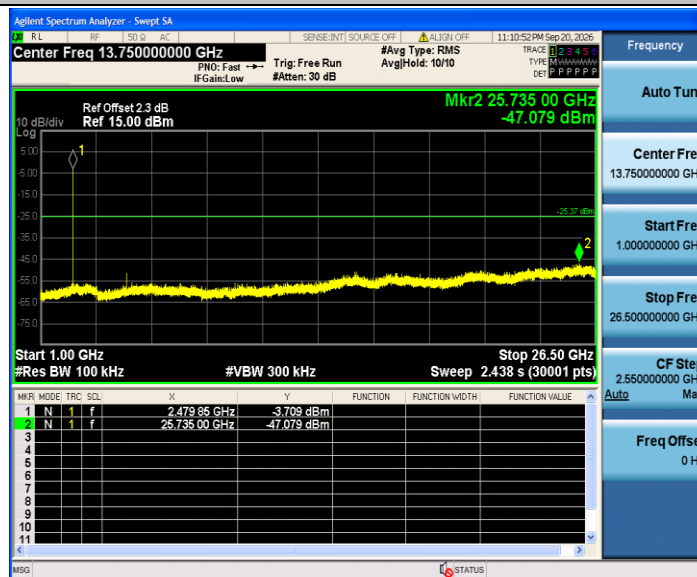
DH5_Ant1_2480_0~Reference



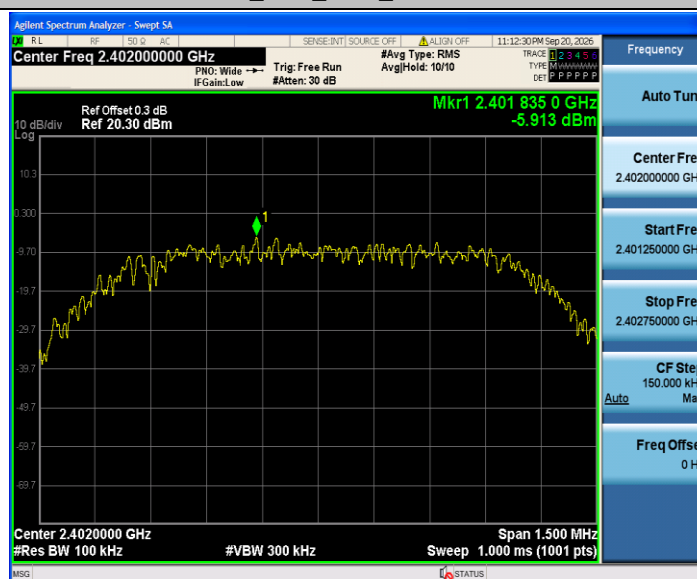
DH5_Ant1_2480_30~1000



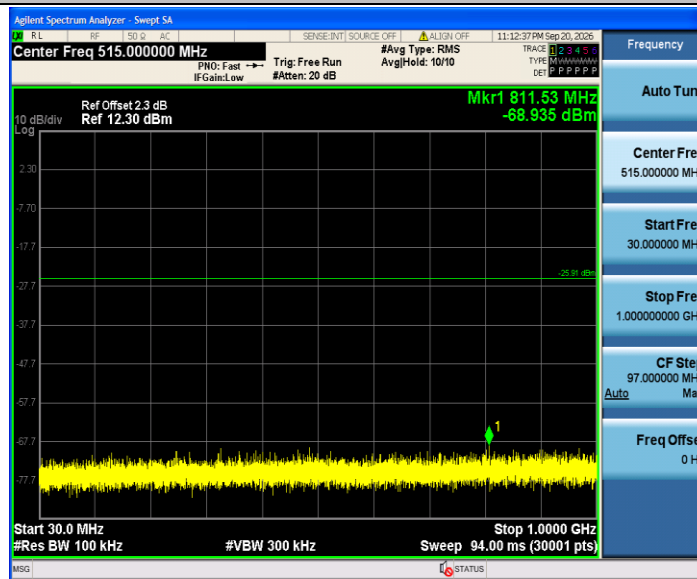
DH5_Ant1_2480_1000~26500



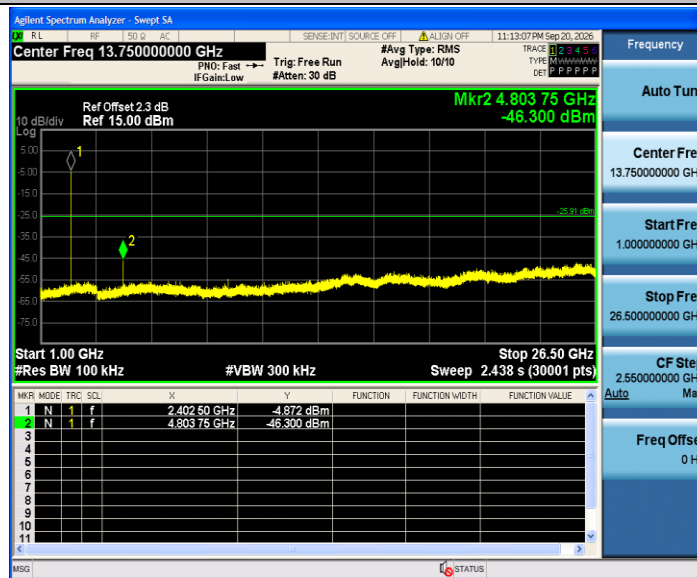
2DH5_Ant1_2402_0~Reference



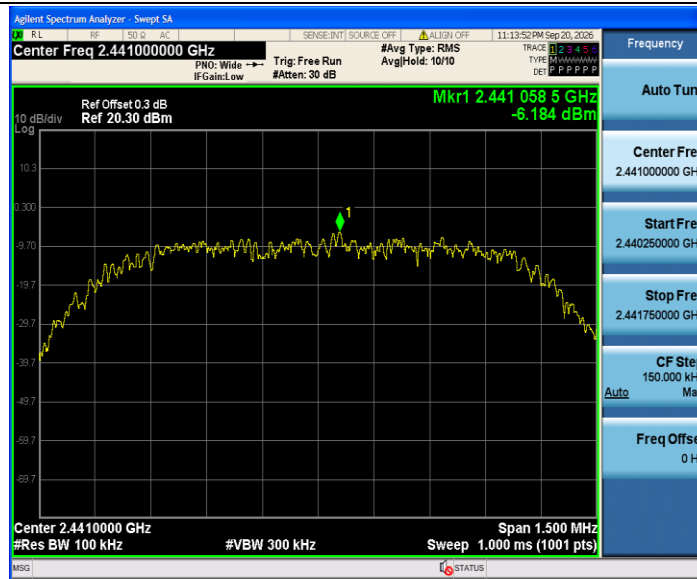
2DH5_Ant1_2402_30~1000



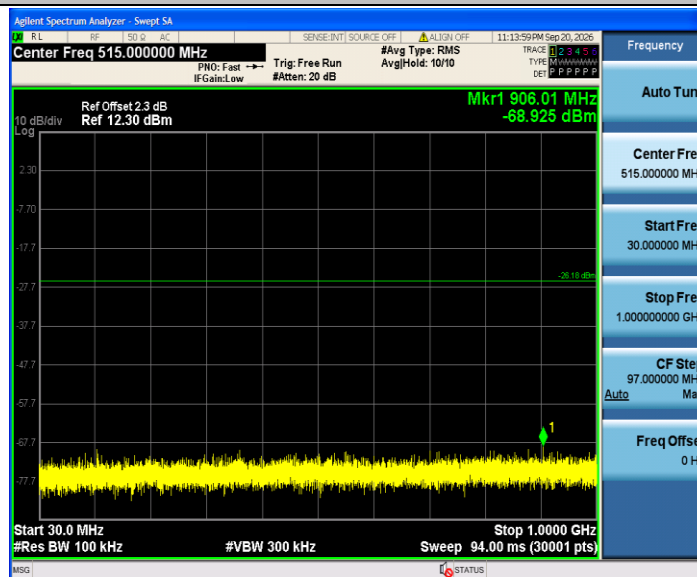
2DH5_Ant1_2402_1000~26500



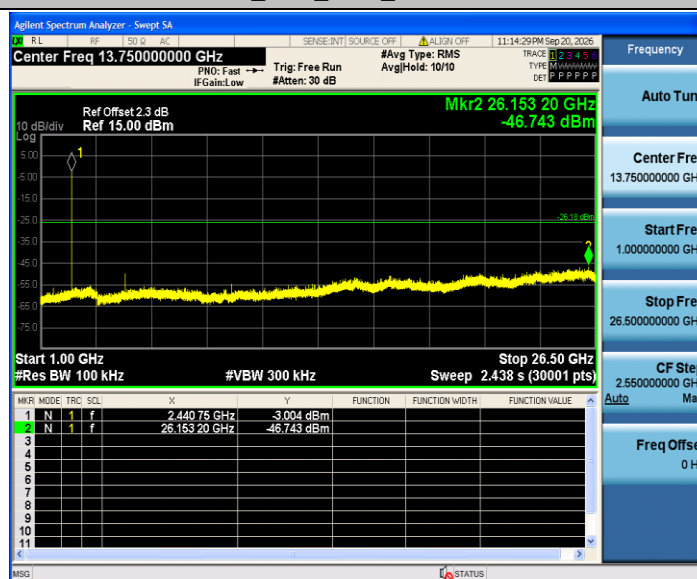
2DH5_Ant1_2441_0~Reference



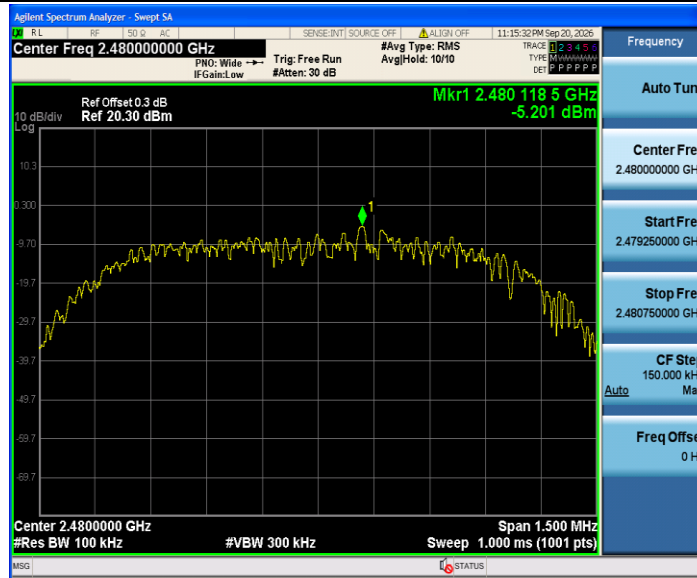
2DH5_Ant1_2441_30~1000



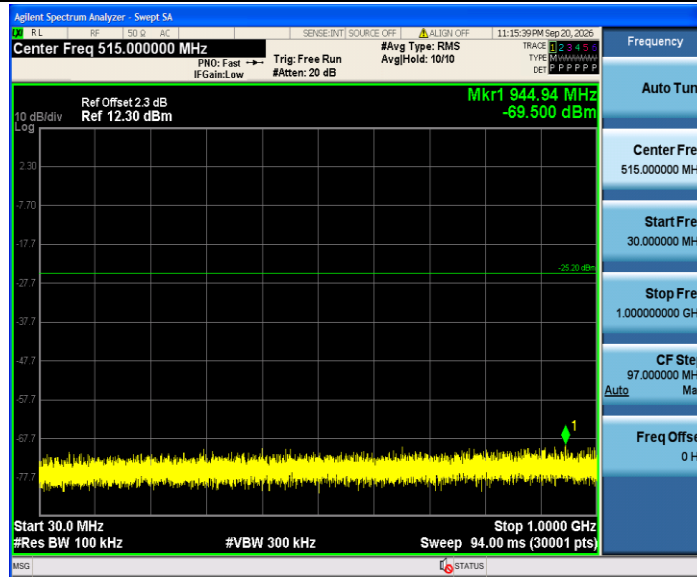
2DH5_Ant1_2441_1000~26500



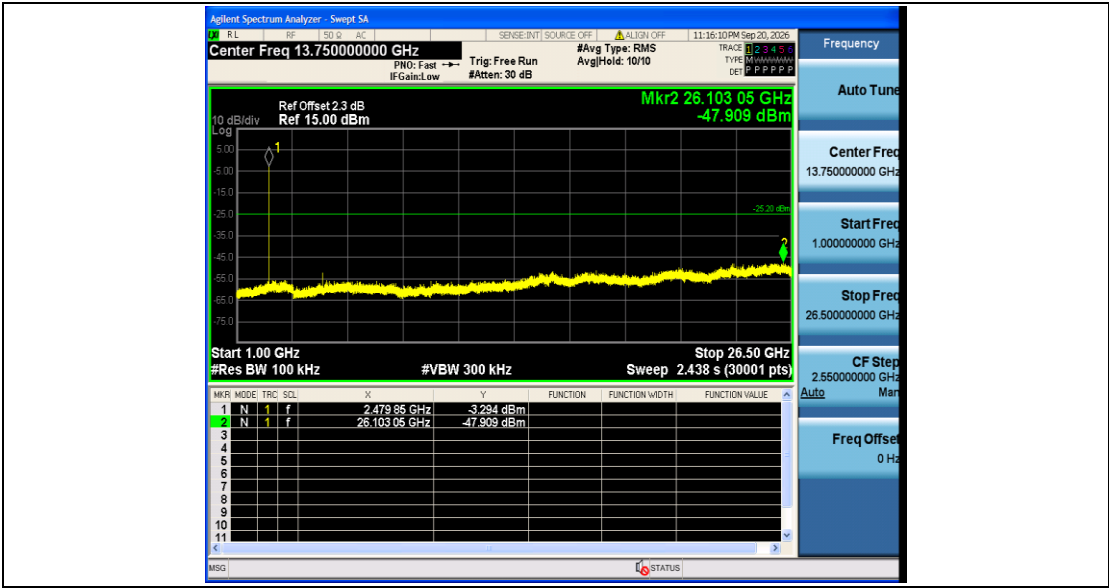
2DH5_Ant1_2480_0~Reference



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	3.76	77.66	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---