

FCC Appendix RF Test Data for BT

FCC ID : 2BS82-KB06

Company : Shenzhen Yamaxtech Co.,Ltd

EUT : Stand Karaoke Machine

Model Number : KB06

Report No. : CTA26090201601

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	0.960	2401.544	2402.504	---	---
		2441	0.960	2440.544	2441.504	---	---
		2480	0.939	2479.553	2480.492	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.293	2440.376	2441.669	---	---
		2480	1.326	2479.346	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

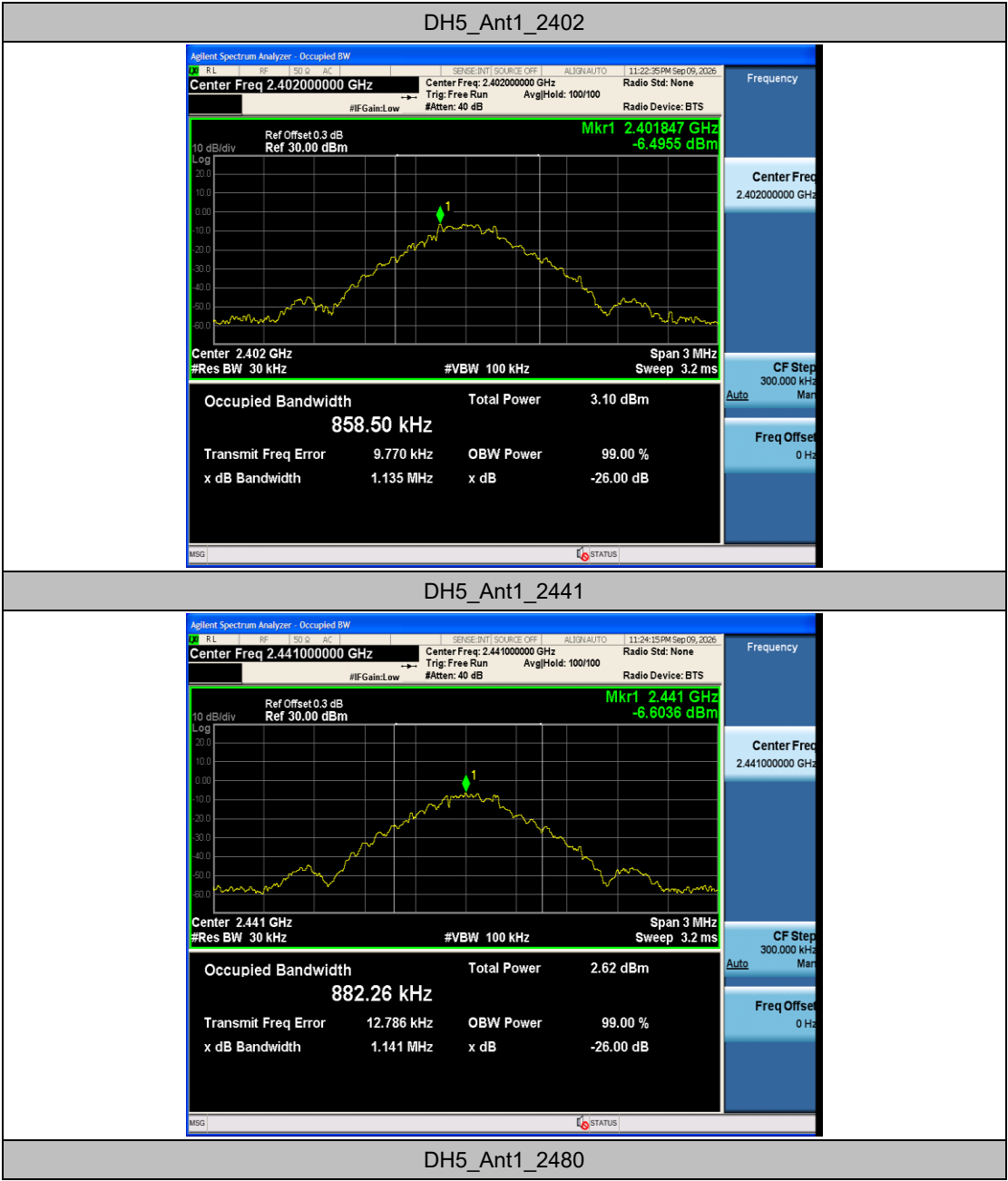


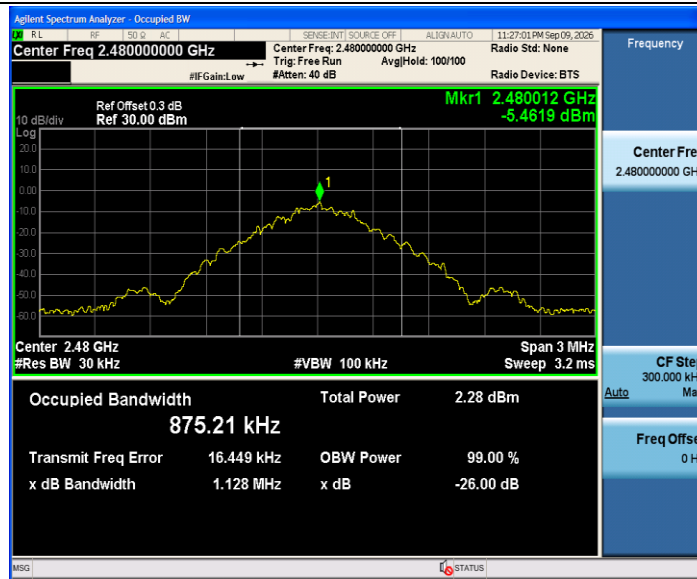
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85850	2401.5805	2402.4390	---	---
		2441	0.88226	2440.5717	2441.4539	---	---
		2480	0.87521	2479.5788	2480.4541	---	---
2DH5	Ant1	2402	1.2026	2401.4114	2402.6140	---	---
		2441	1.1877	2440.4163	2441.6040	---	---
		2480	1.1822	2479.4193	2480.6015	---	---

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	-3.42	≤20.97	PASS
		2441	-3.56	≤20.97	PASS
		2480	-3.88	≤20.97	PASS
2DH5	Ant1	2402	-0.78	≤20.97	PASS
		2441	-0.98	≤20.97	PASS
		2480	-1.36	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.972	≥ 0.960	PASS
2DH5	Ant1	Hop	0.976	≥ 0.884	PASS

Test Graphs

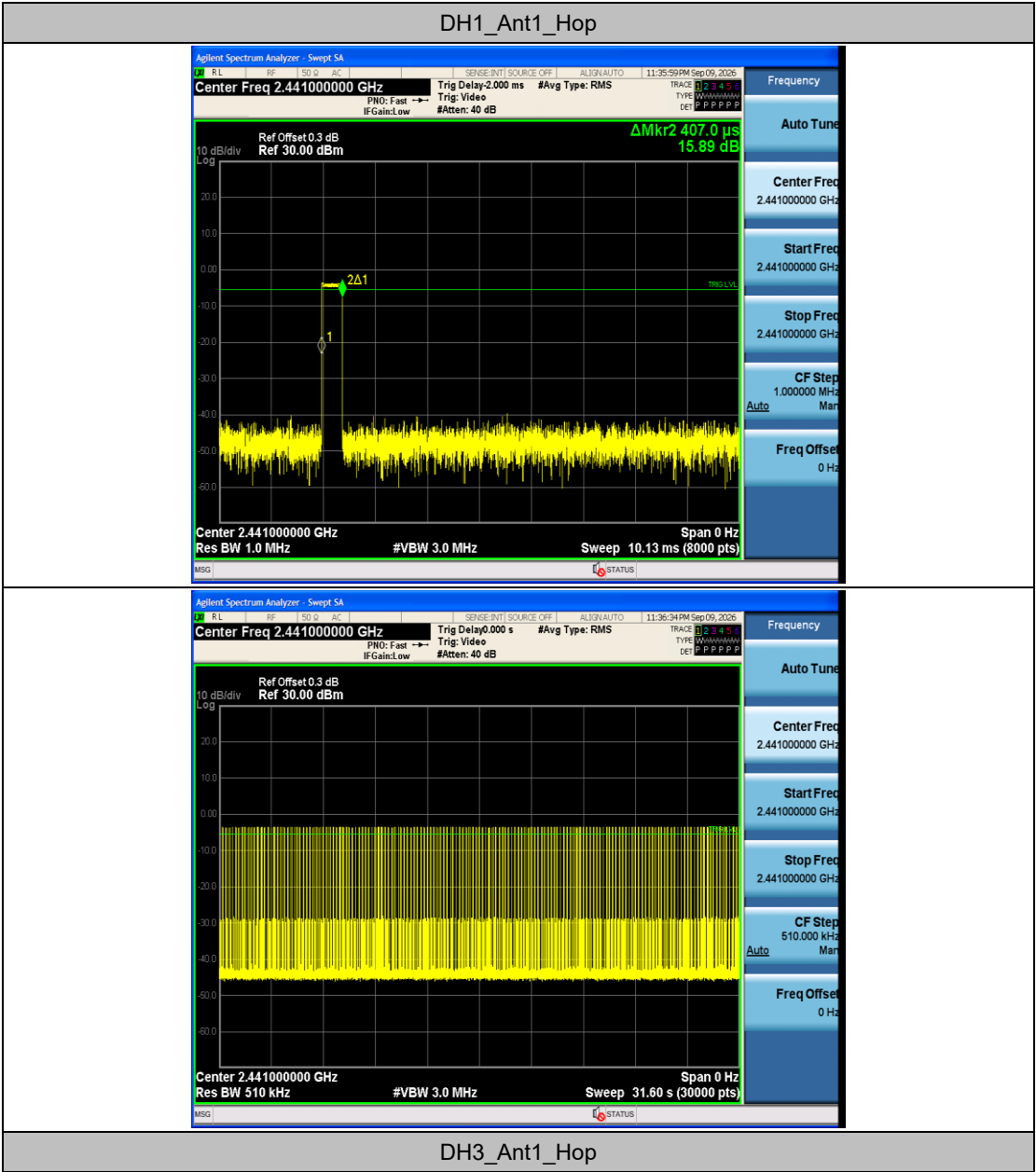


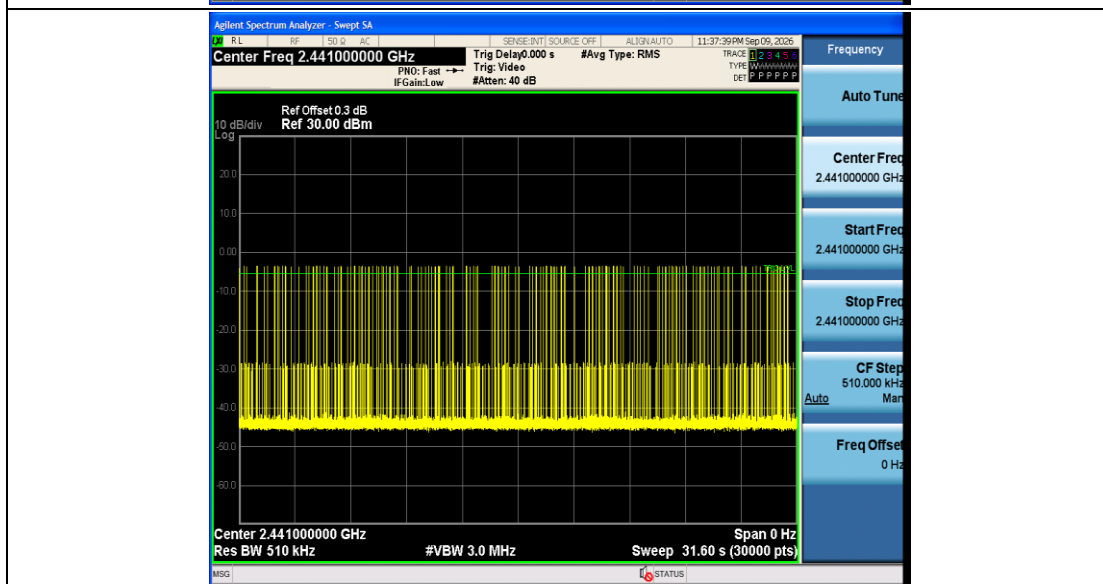
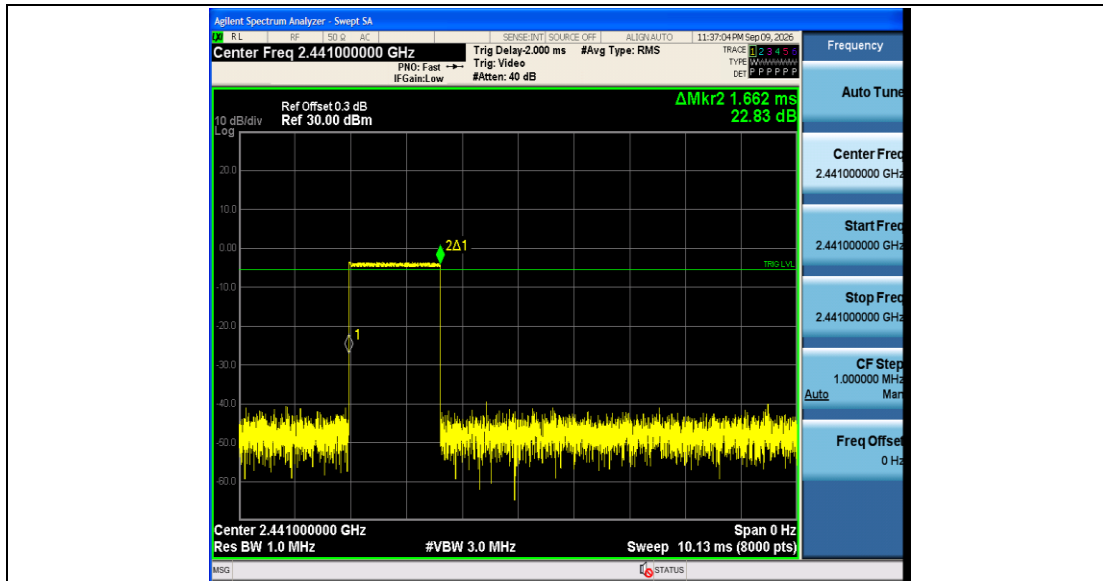
Appendix E: Time of occupancy

Test Result

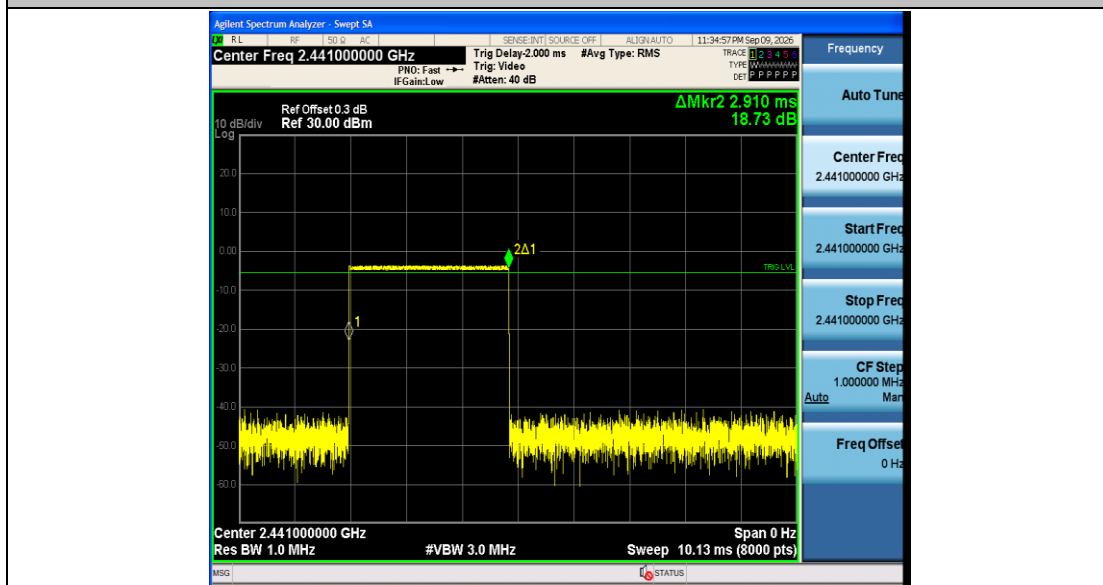
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	165	0.274	≤0.4	PASS
DH5	Ant1	Hop	2.910	119	0.346	≤0.4	PASS
2DH1	Ant1	Hop	0.415	317	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.667	158	0.263	≤0.4	PASS
2DH5	Ant1	Hop	2.916	95	0.277	≤0.4	PASS

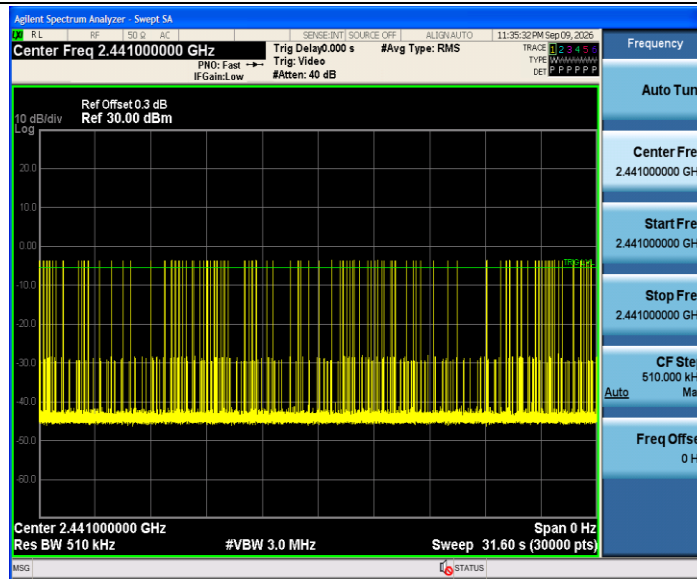
Test Graphs



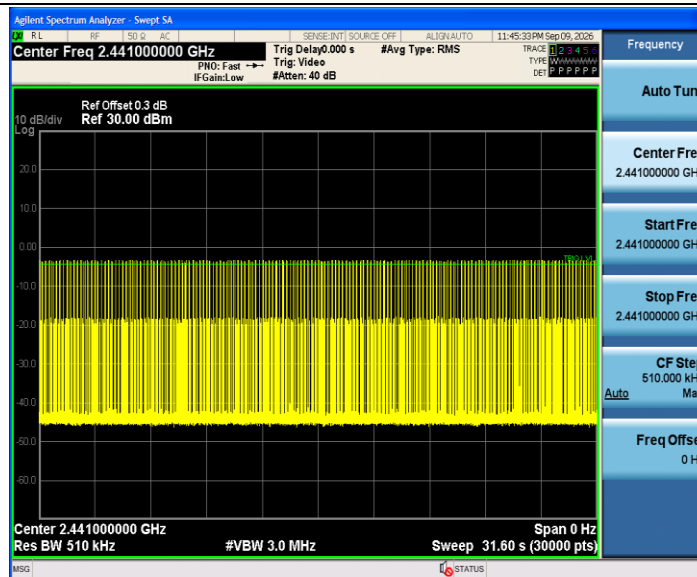
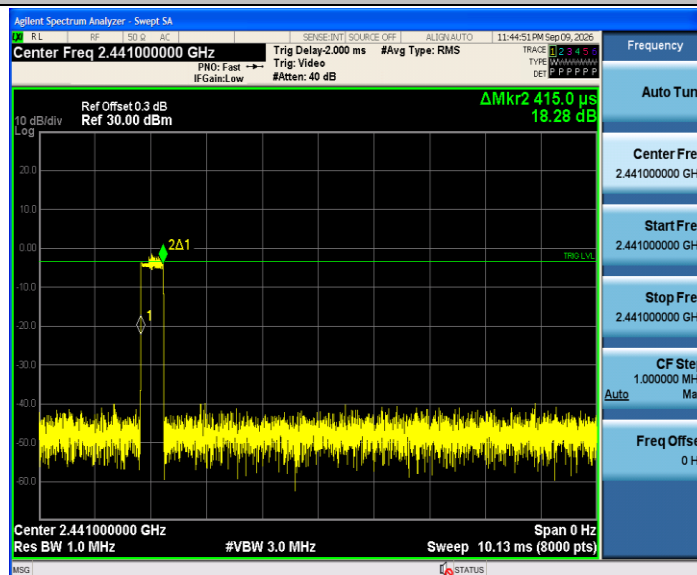


DH5_Ant1_Hop

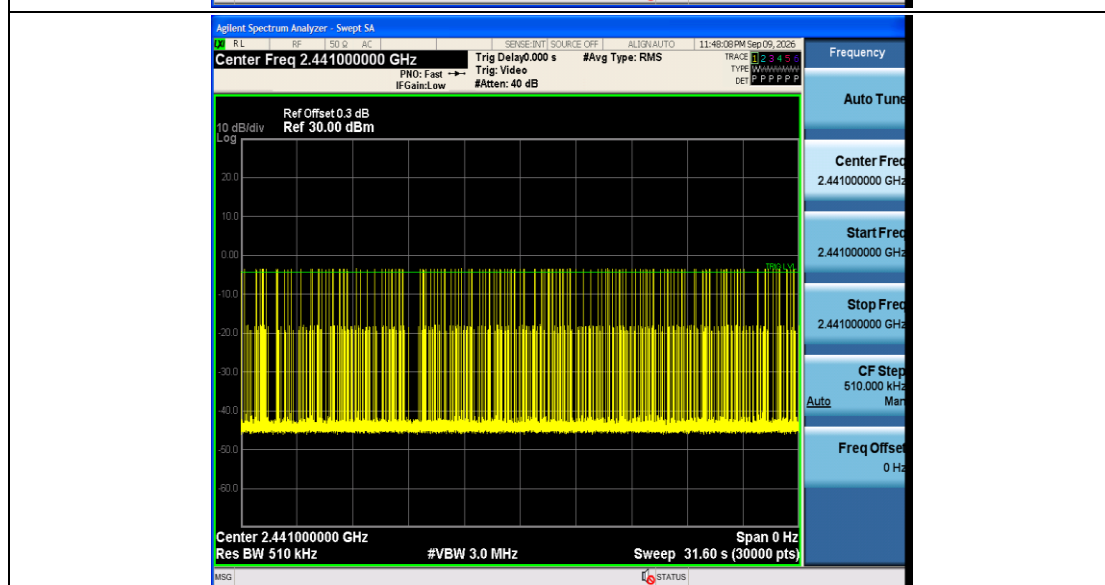
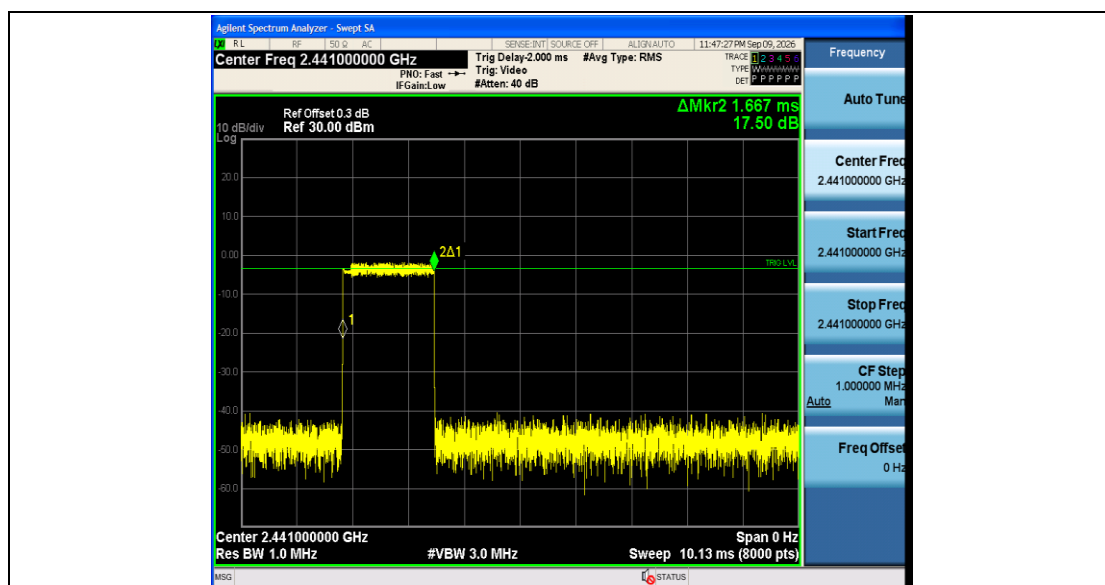




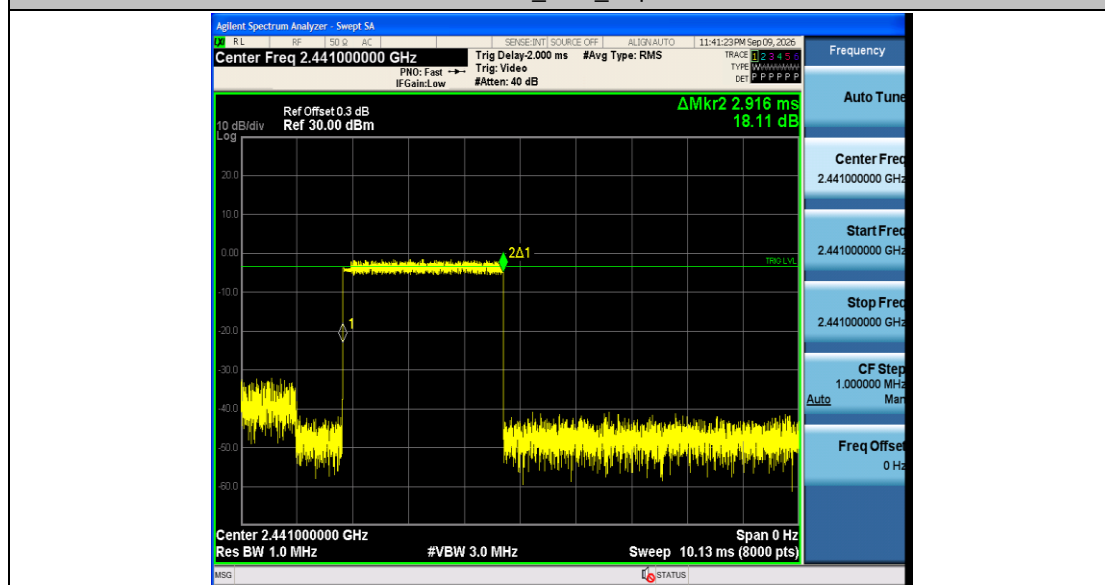
2DH1_Ant1_Hop

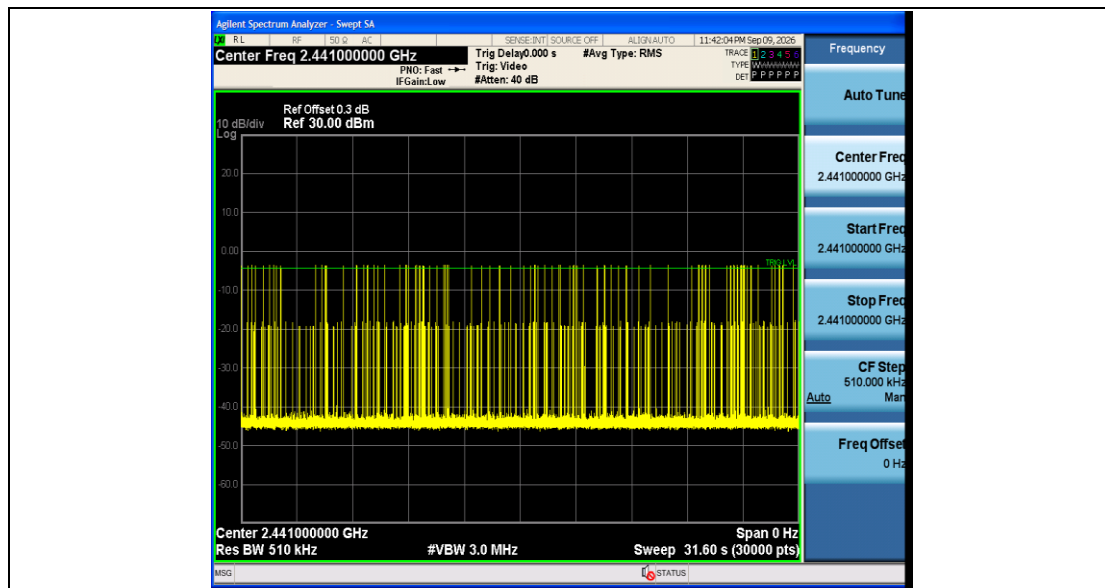


2DH3_Ant1_Hop



2DH5_Ant1_Hop



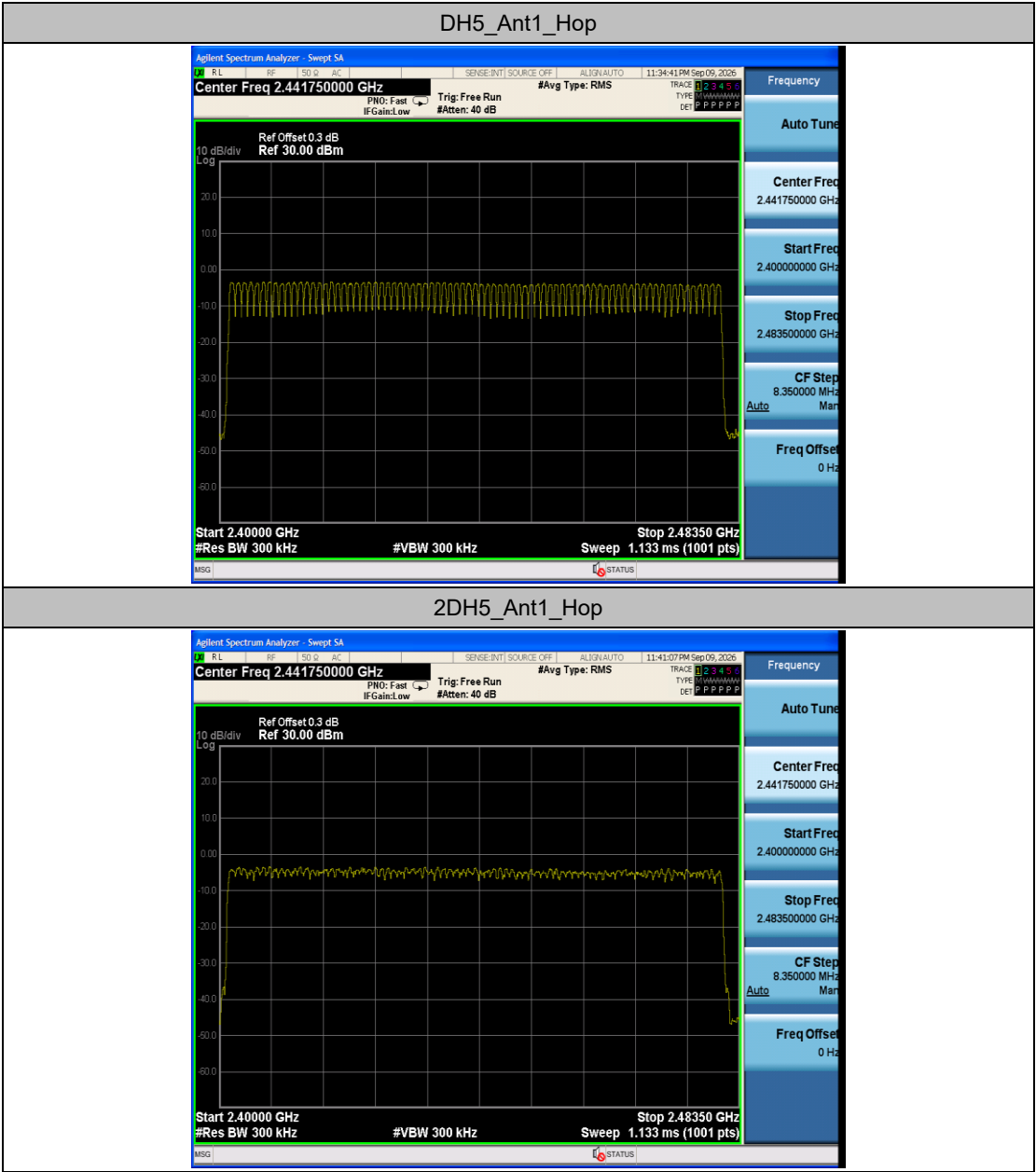


Appendix F: Number of hopping channels

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

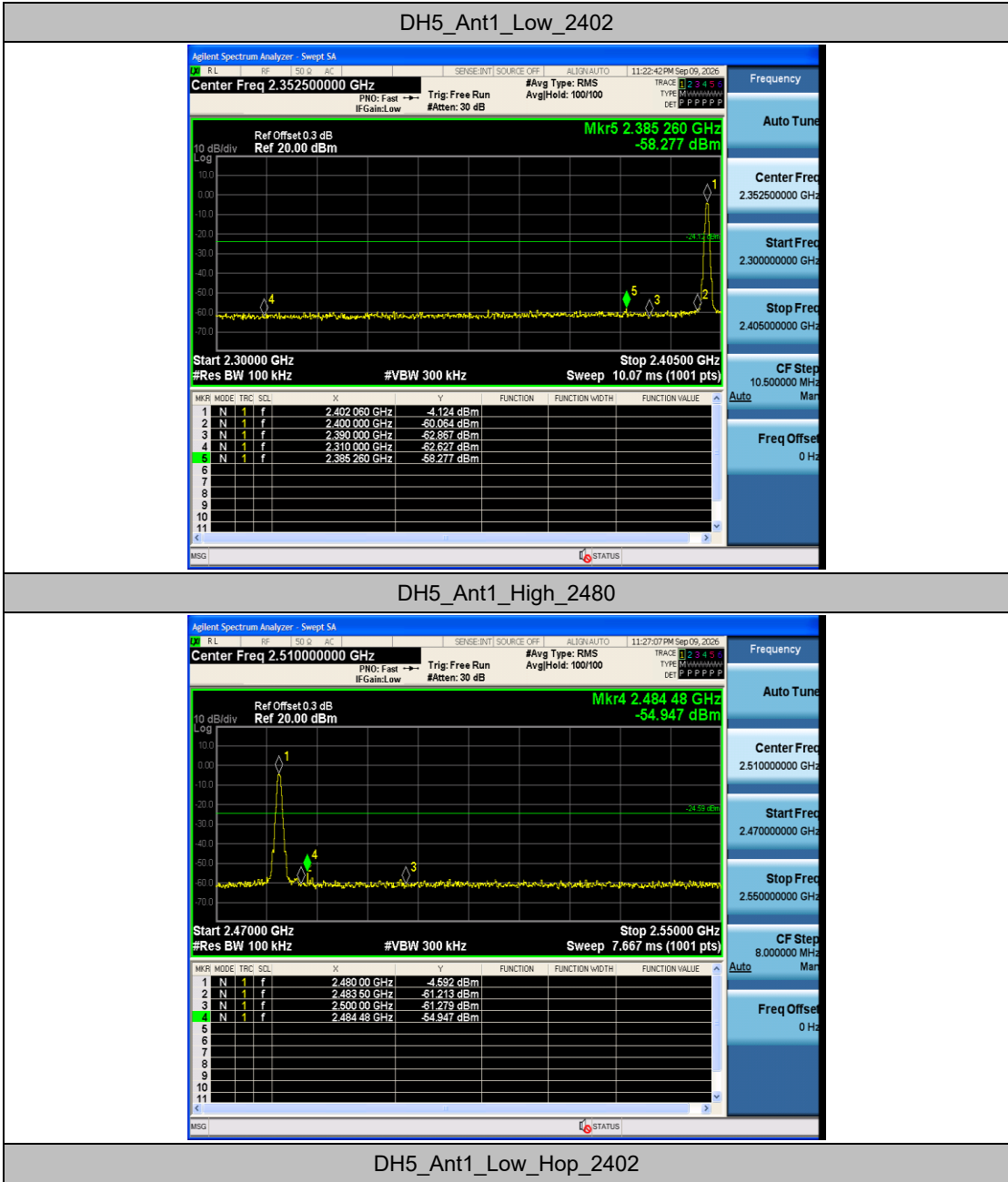


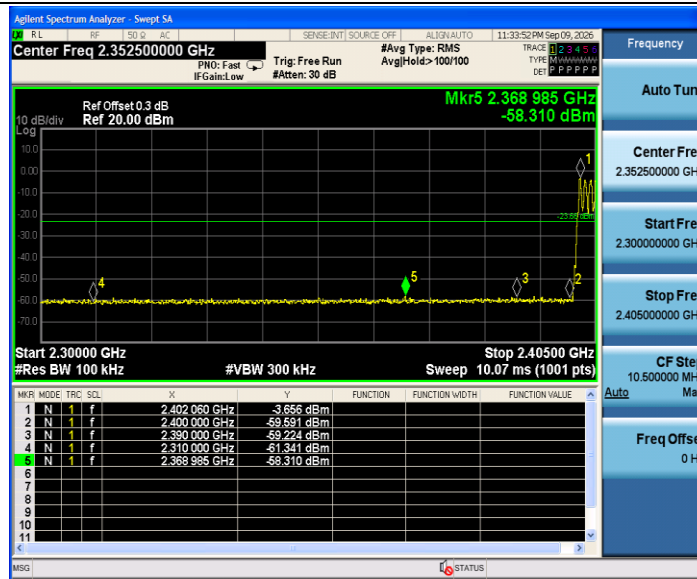
Appendix G: Band edge measurements

Test Result

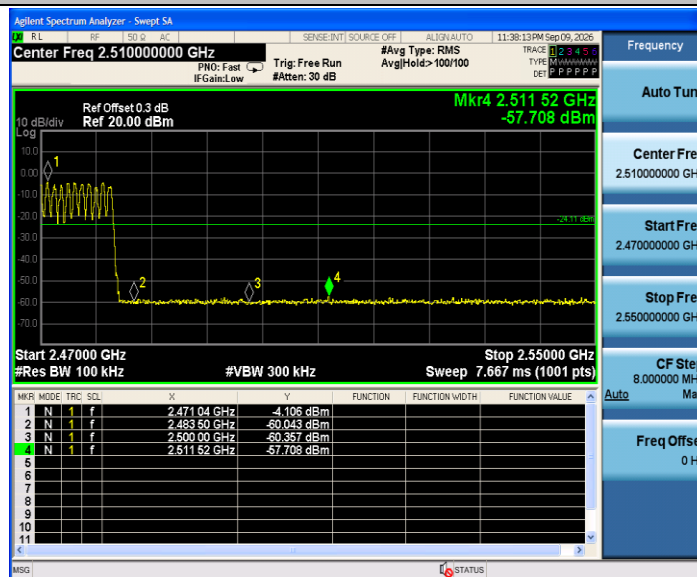
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.12	-58.28	≤ -24.12	PASS
		High	2480	-4.59	-54.95	≤ -24.59	PASS
		Low	Hop_2402	-3.66	-58.31	≤ -23.66	PASS
		High	Hop_2480	-4.11	-57.71	≤ -24.11	PASS
2DH5	Ant1	Low	2402	-6.00	-58.41	≤ -26	PASS
		High	2480	-4.58	-56.69	≤ -24.58	PASS
		Low	Hop_2402	-4.73	-56.47	≤ -24.73	PASS
		High	Hop_2480	-3.88	-57.97	≤ -23.88	PASS

Test Graphs

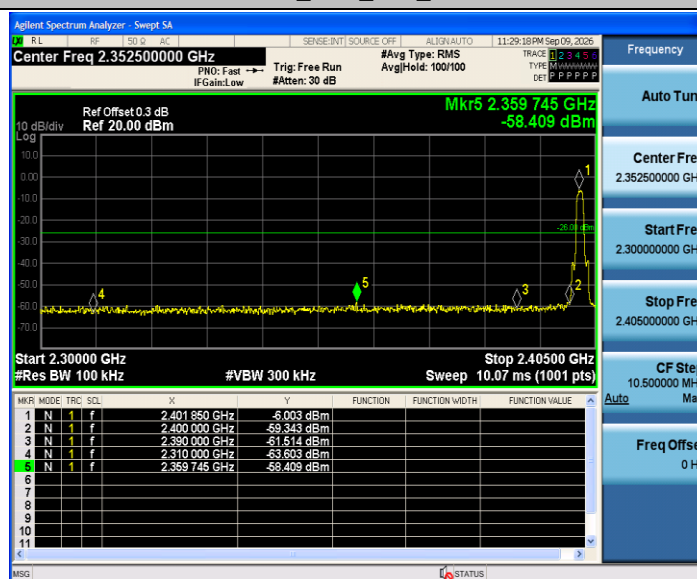




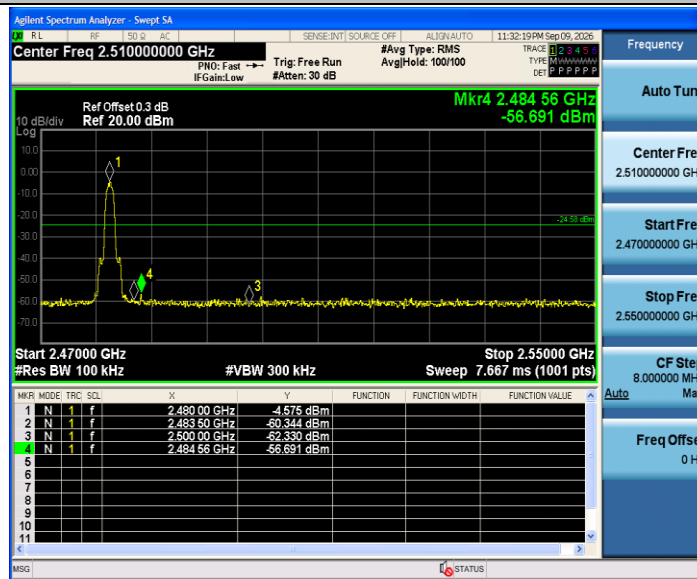
DH5_Ant1_High_Hop_2480



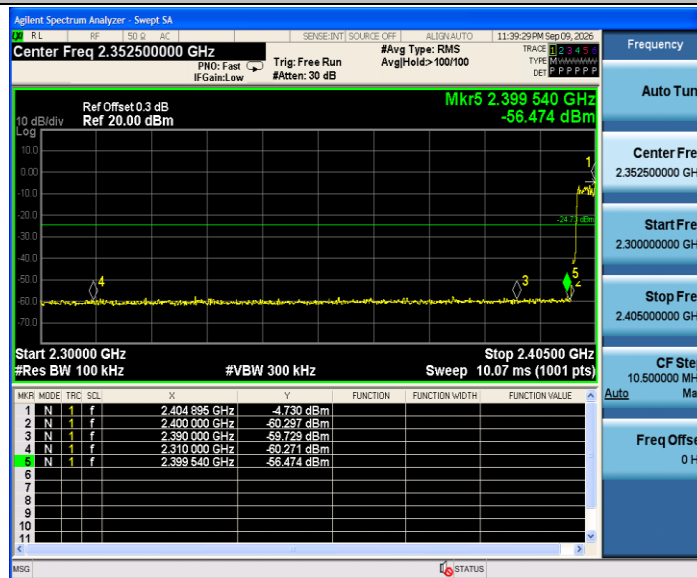
2DH5_Ant1_Low_2402



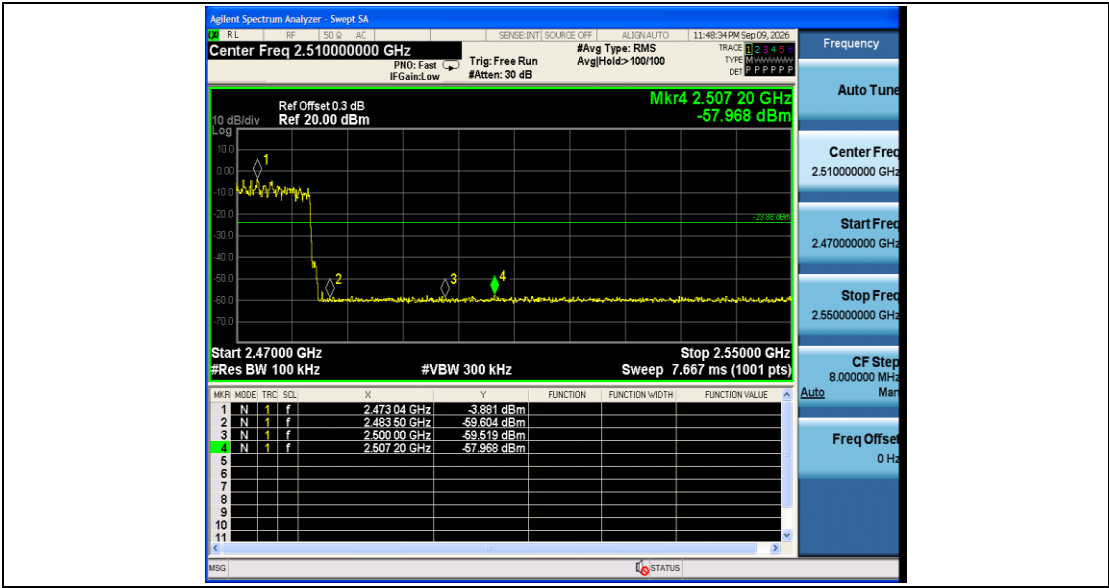
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

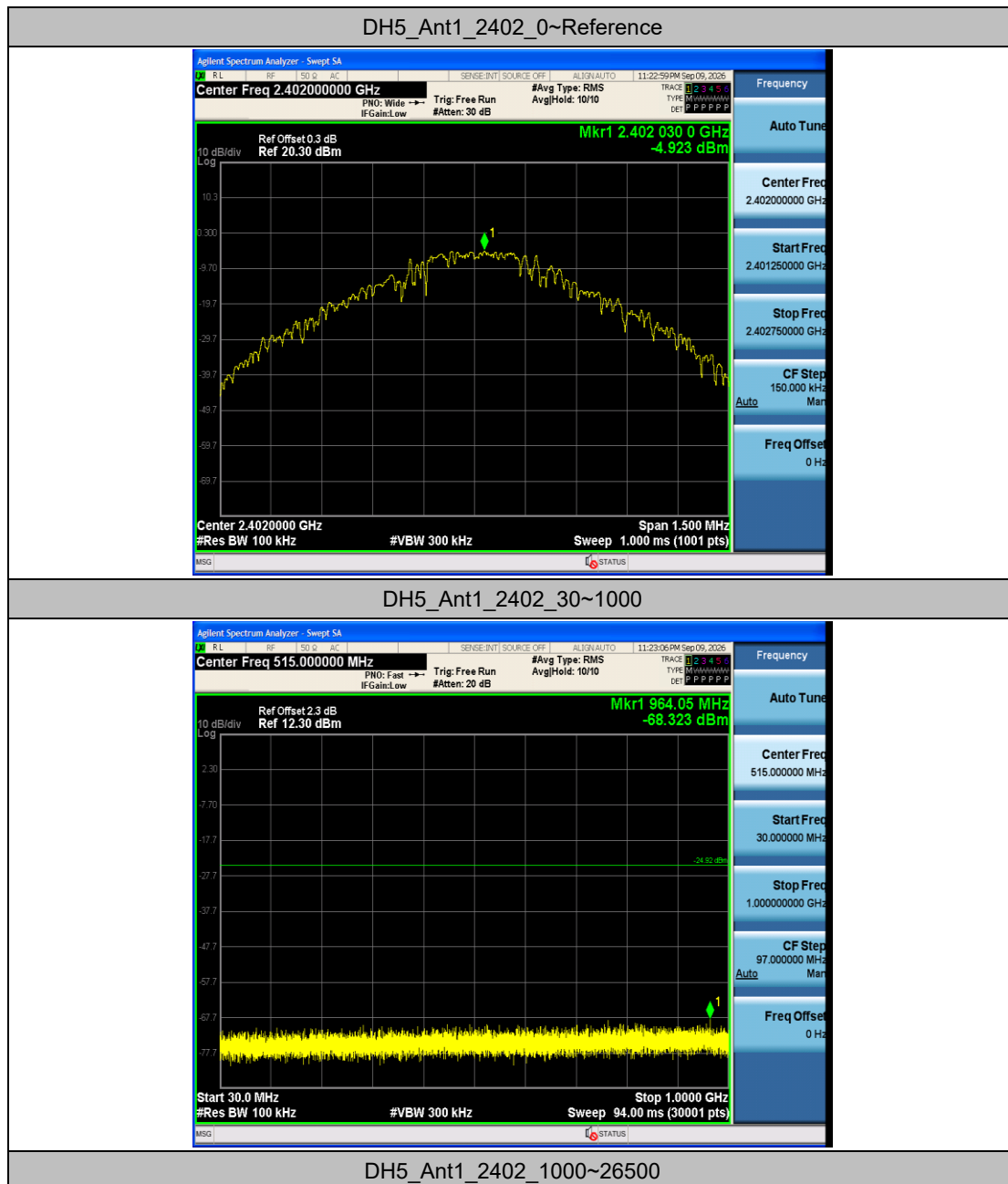


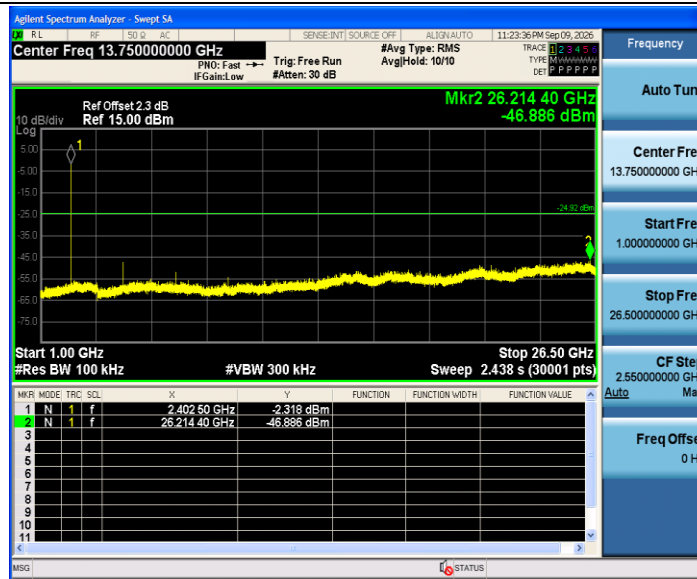
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.92	-4.92	---	PASS
			30~1000	-4.92	-68.32	≤-24.92	PASS
			1000~26500	-4.92	-46.89	≤-24.92	PASS
		2441	Reference	-4.52	-4.52	---	PASS
			30~1000	-4.52	-68.65	≤-24.52	PASS
			1000~26500	-4.52	-46.79	≤-24.52	PASS
		2480	Reference	-4.90	-4.90	---	PASS
			30~1000	-4.90	-68.65	≤-24.9	PASS
			1000~26500	-4.90	-46.55	≤-24.9	PASS
2DH5	Ant1	2402	Reference	-3.86	-3.86	---	PASS
			30~1000	-3.86	-67.74	≤-23.86	PASS
			1000~26500	-3.86	-46.72	≤-23.86	PASS
		2441	Reference	-5.26	-5.26	---	PASS
			30~1000	-5.26	-68.92	≤-25.26	PASS
			1000~26500	-5.26	-47.08	≤-25.26	PASS
		2480	Reference	-7.64	-7.64	---	PASS
			30~1000	-7.64	-68.73	≤-27.64	PASS
			1000~26500	-7.64	-47.1	≤-27.64	PASS

Test Graphs

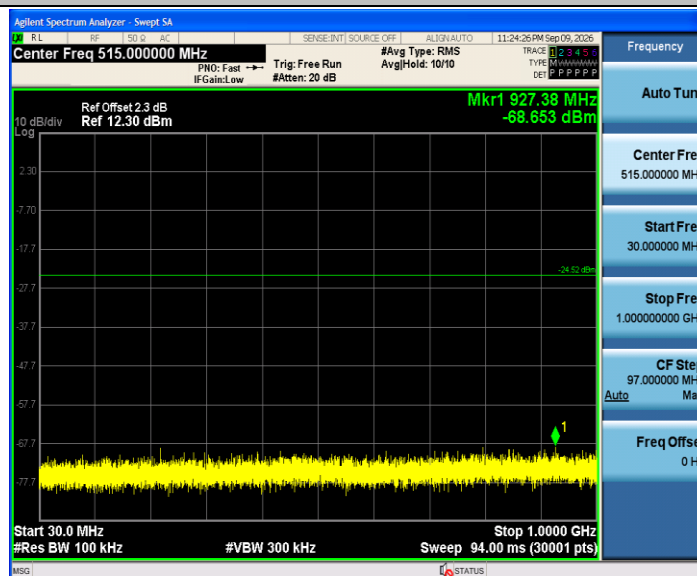




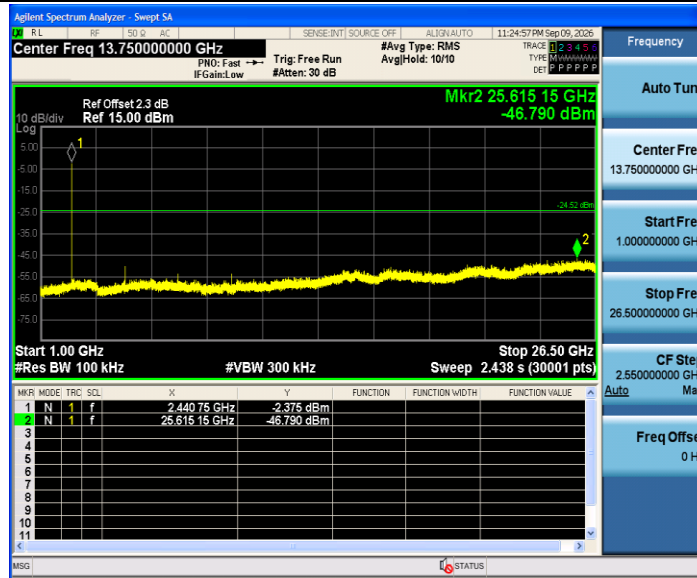
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



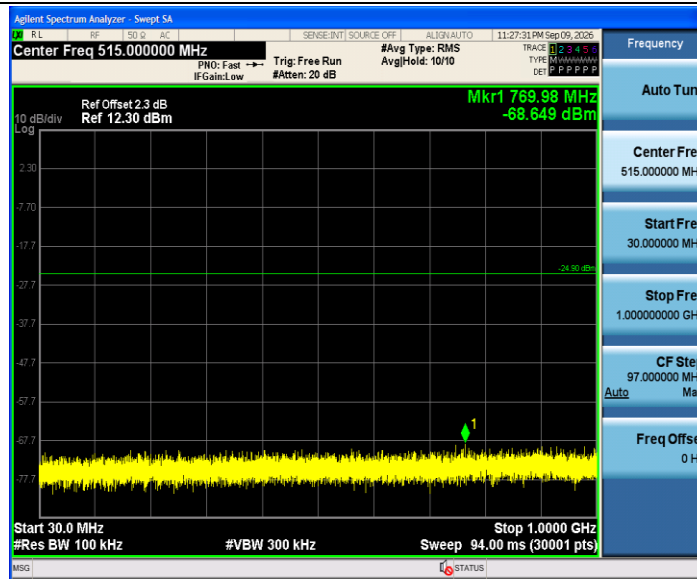
DH5_Ant1_2441_1000~26500



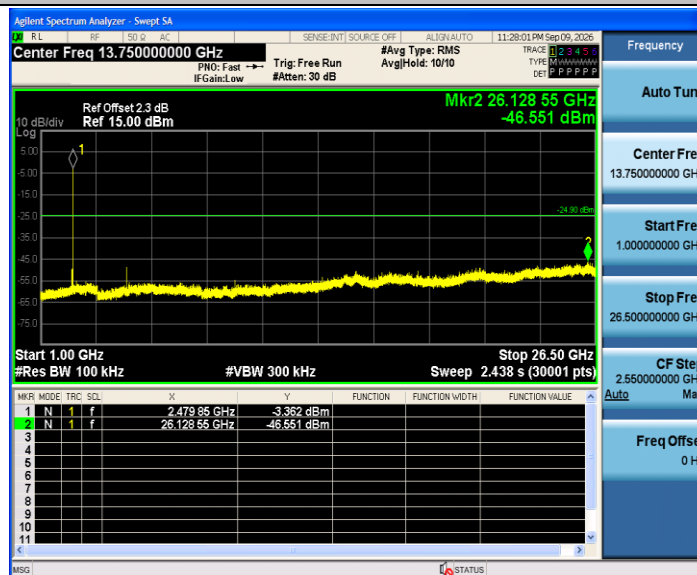
DH5_Ant1_2480_0~Reference



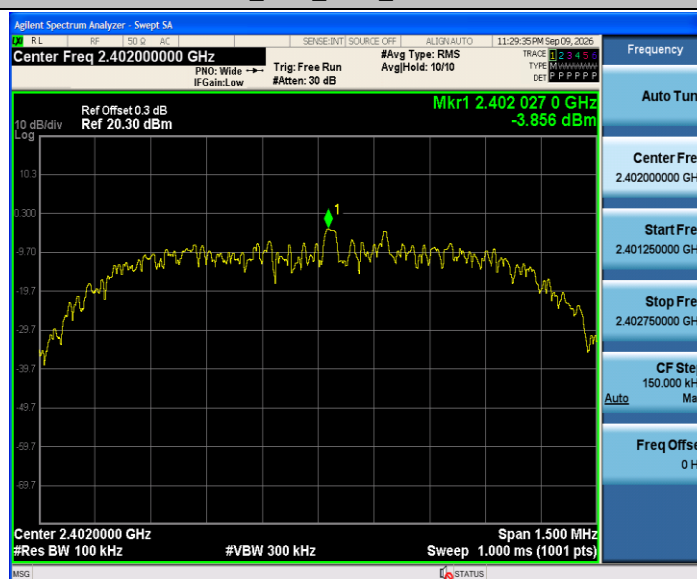
DH5_Ant1_2480_30~1000



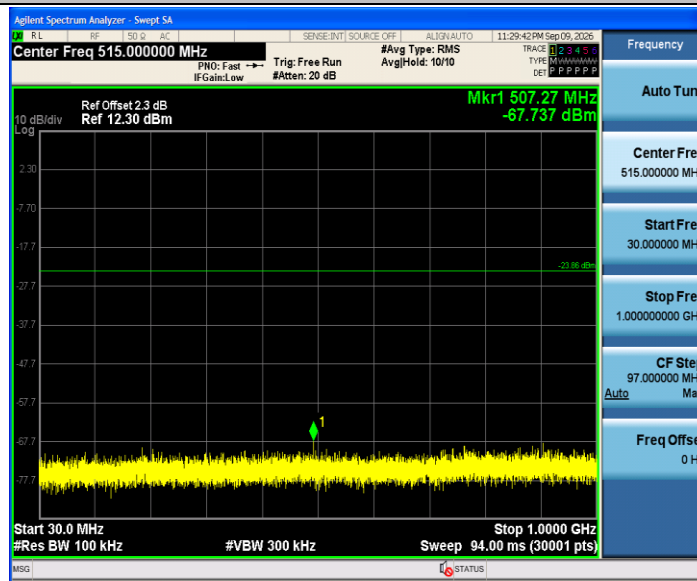
DH5_Ant1_2480_1000~26500



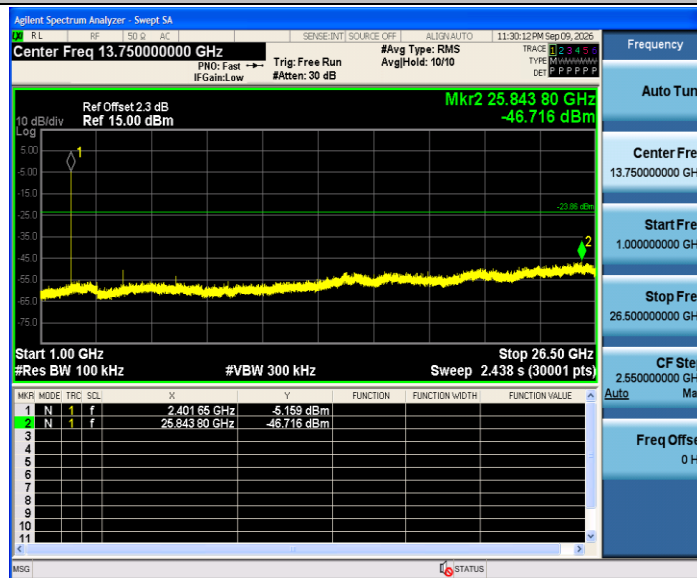
2DH5_Ant1_2402_0~Reference



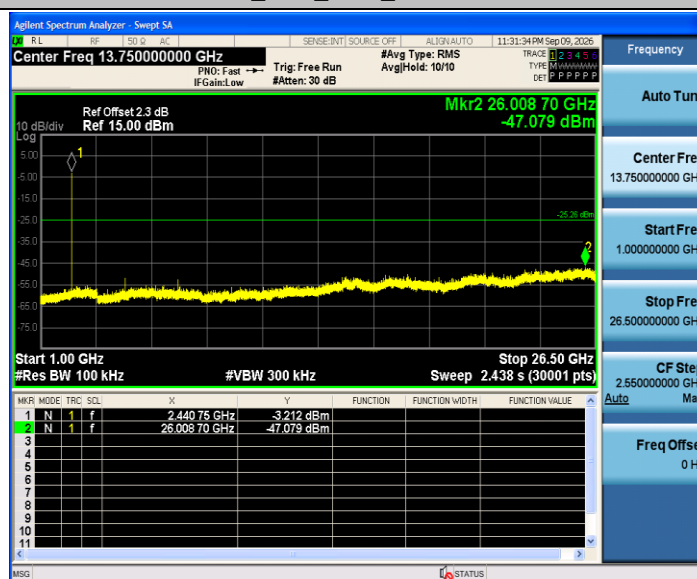
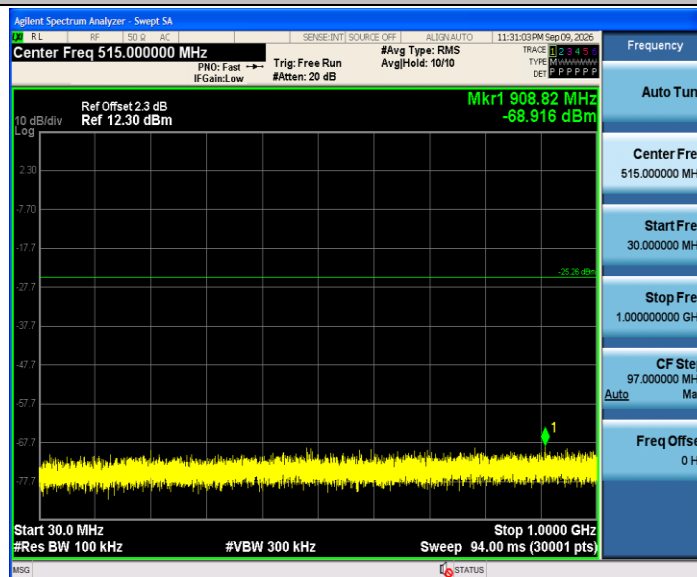
2DH5_Ant1_2402_30~1000



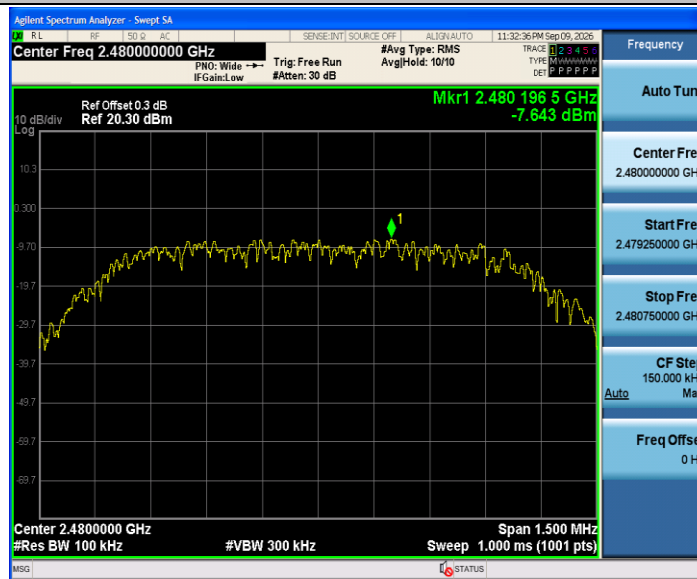
2DH5_Ant1_2402_1000~26500



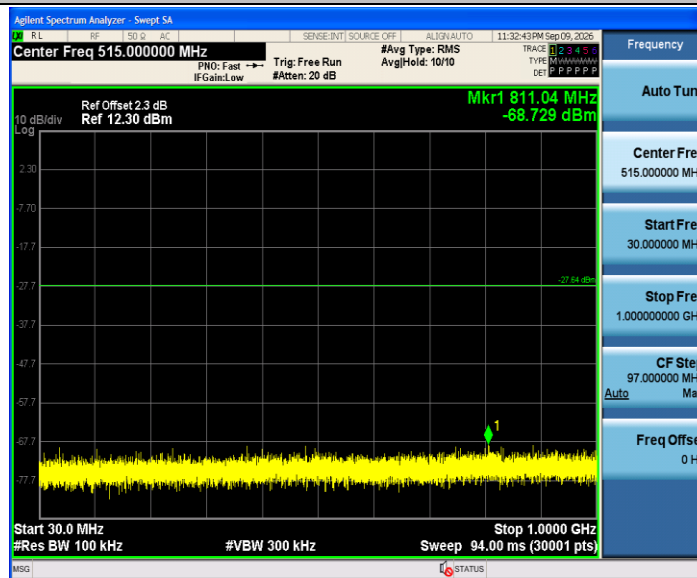
2DH5_Ant1_2441_0~Reference



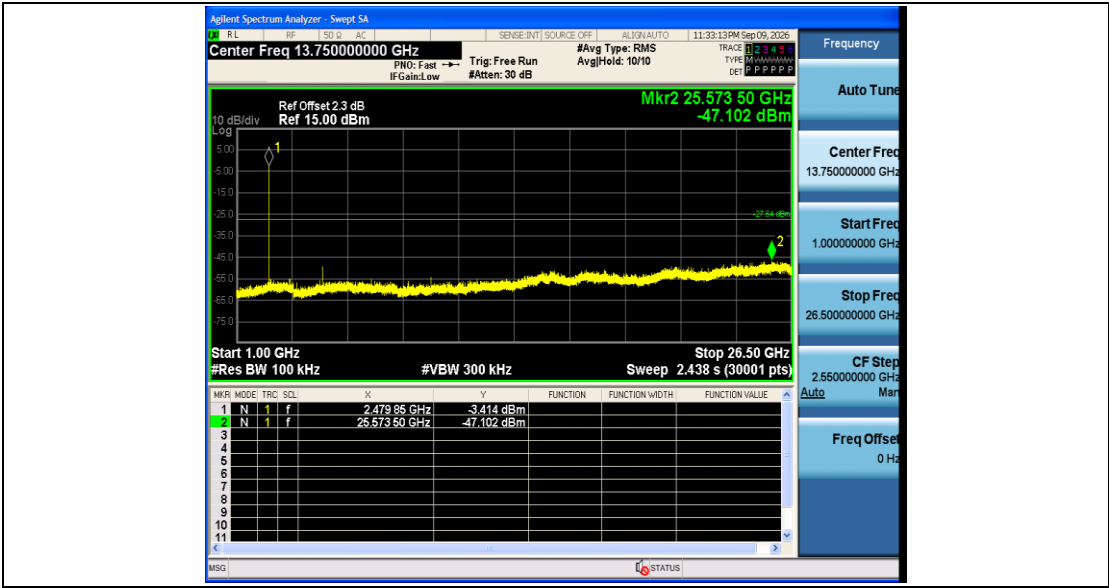
2DH5_Ant1_2480_0~Reference



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	3.76	77.66	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---