

FCC Appendix RF Test Data for BT

FCC ID : 2AW5N-P7

Company : Shenzhen Guye Technology Co., Ltd.

EUT : Wireless Karaoke Speaker

Model Number : P7

Report No. : CTA25101601301

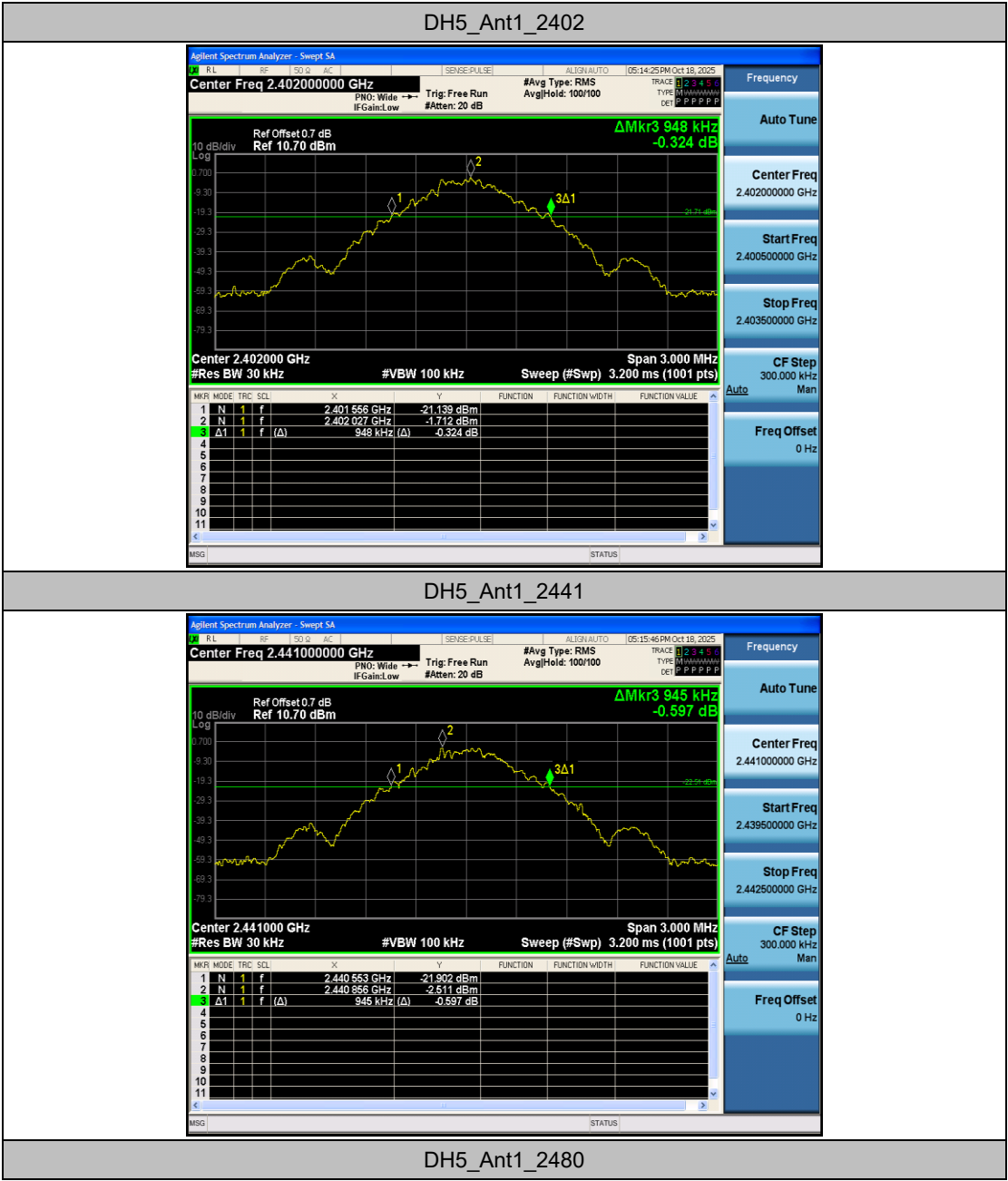
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

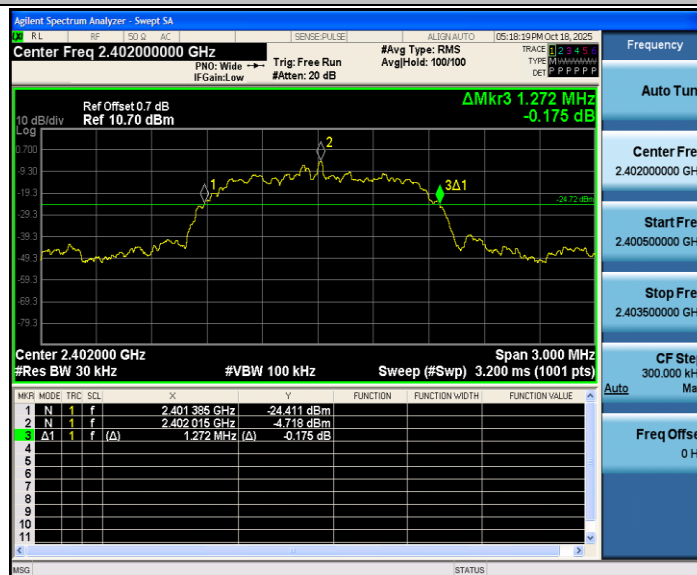
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.556	2402.504	---	---
		2441	0.945	2440.553	2441.498	---	---
		2480	0.957	2479.550	2480.507	---	---
2DH5	Ant1	2402	1.272	2401.385	2402.657	---	---
		2441	1.317	2440.355	2441.672	---	---
		2480	1.281	2479.385	2480.666	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

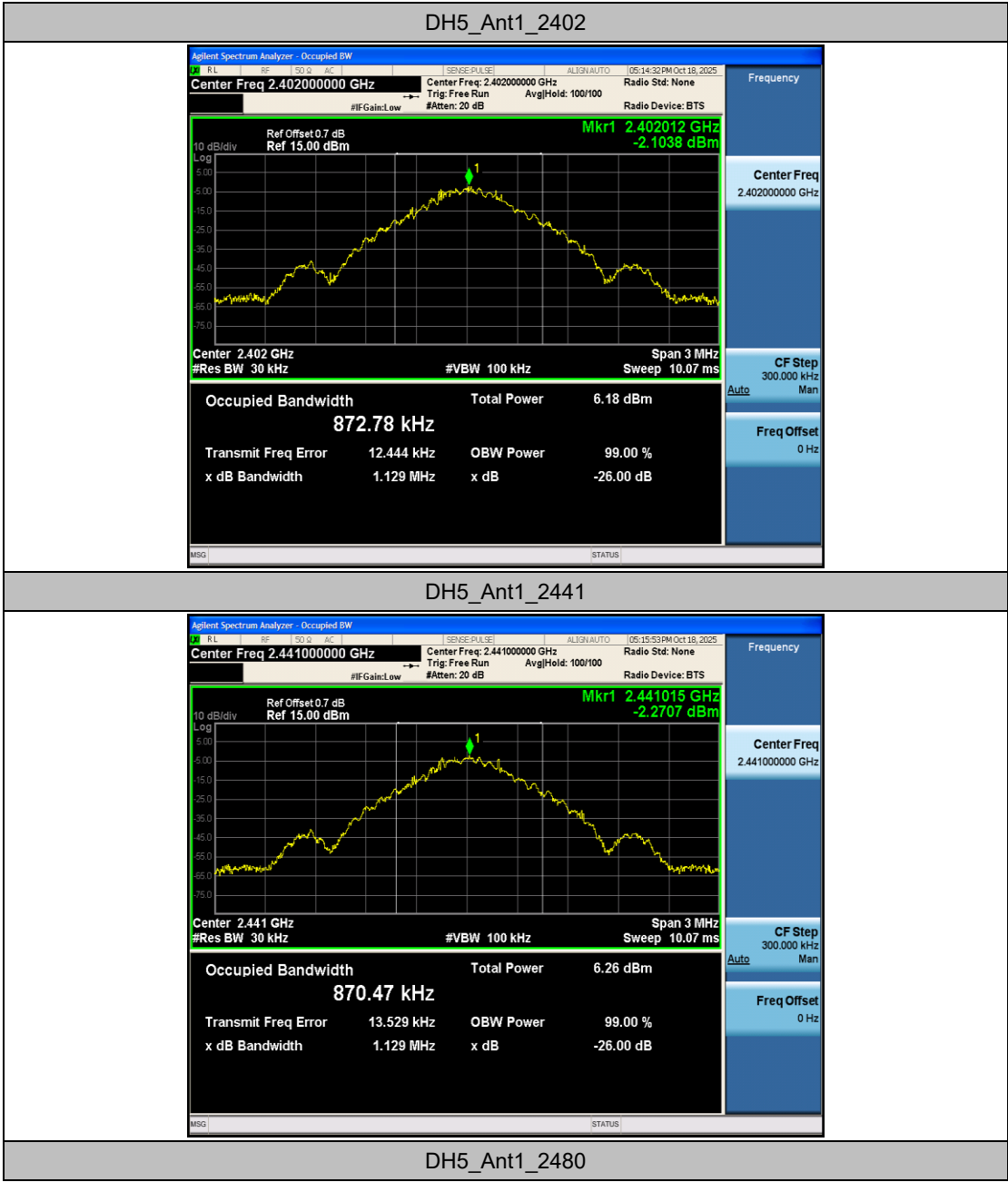


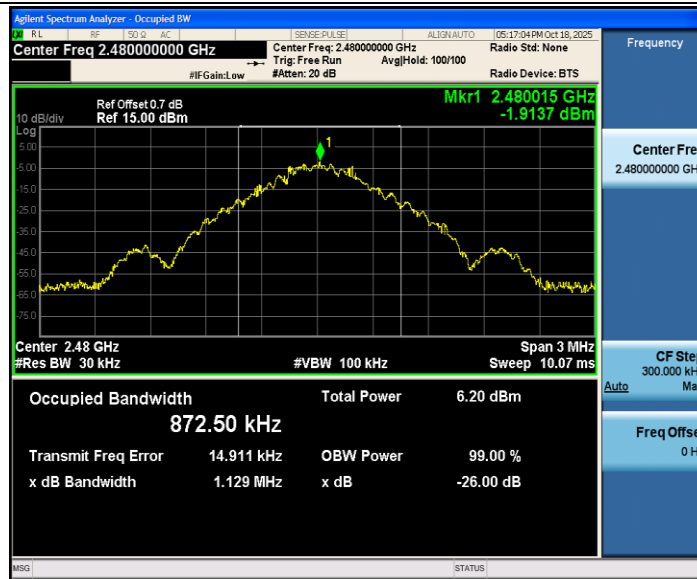
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87278	2401.5761	2402.4488	---	---
		2441	0.87047	2440.5783	2441.4488	---	---
		2480	0.87250	2479.5787	2480.4512	---	---
2DH5	Ant1	2402	1.1929	2401.4192	2402.6121	---	---
		2441	1.1858	2440.4224	2441.6082	---	---
		2480	1.1899	2479.4202	2480.6101	---	---

Test Graphs

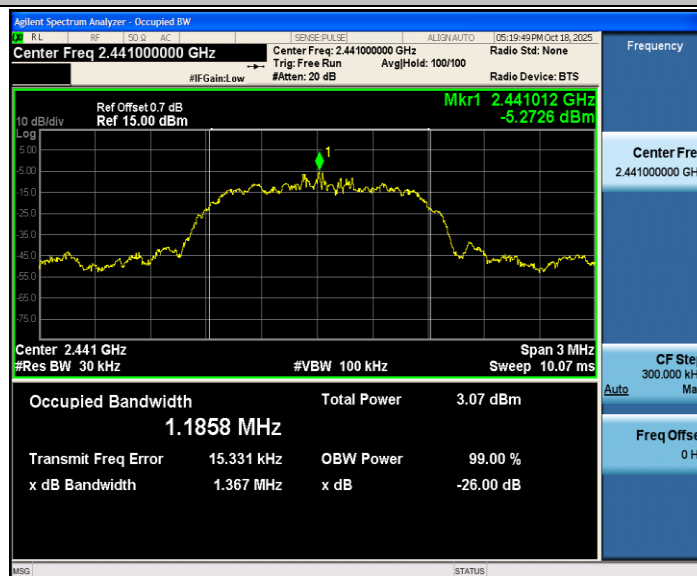




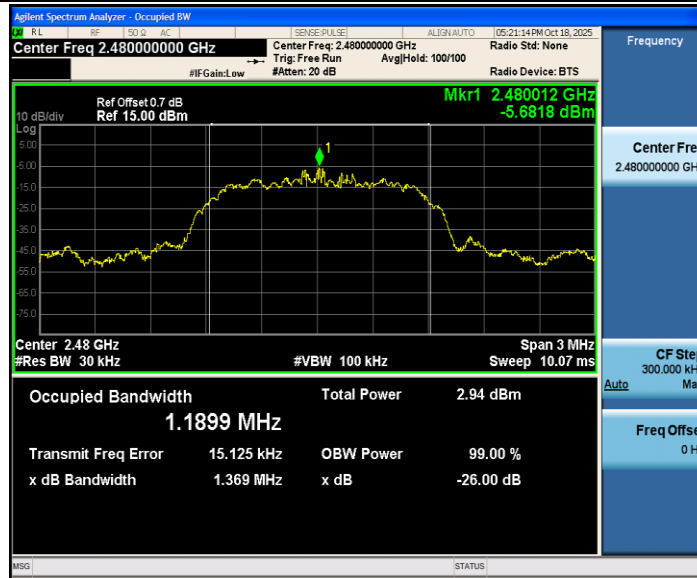
2DH5_Ant1_2402



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	0.39	≤20.97	PASS
		2441	0.30	≤20.97	PASS
		2480	0.29	≤20.97	PASS
2DH5	Ant1	2402	-0.44	≤20.97	PASS
		2441	-0.49	≤20.97	PASS
		2480	-0.53	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.957	PASS
2DH5	Ant1	Hop	1.128	≥ 0.878	PASS

Test Graphs

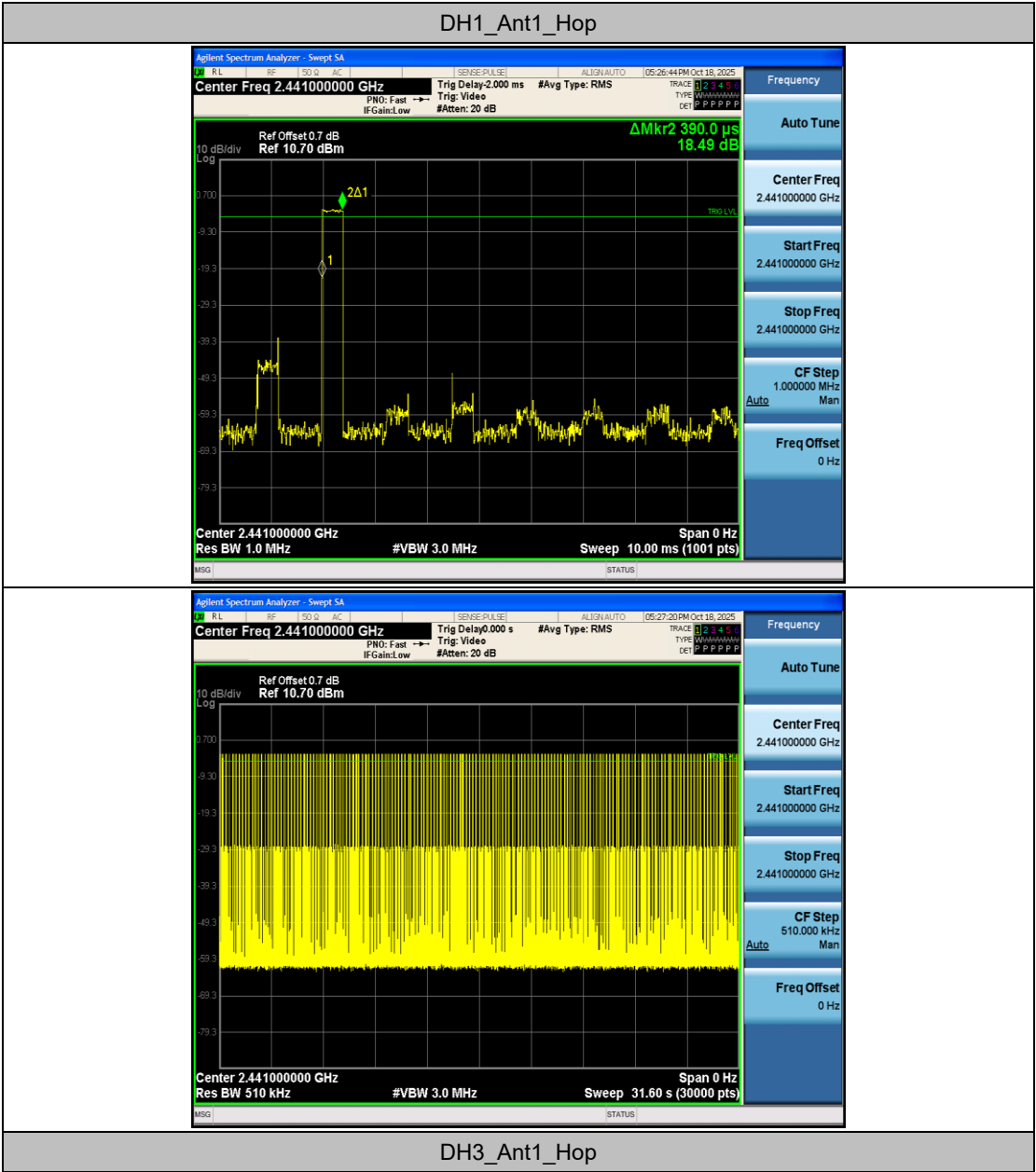


Appendix E: Time of occupancy

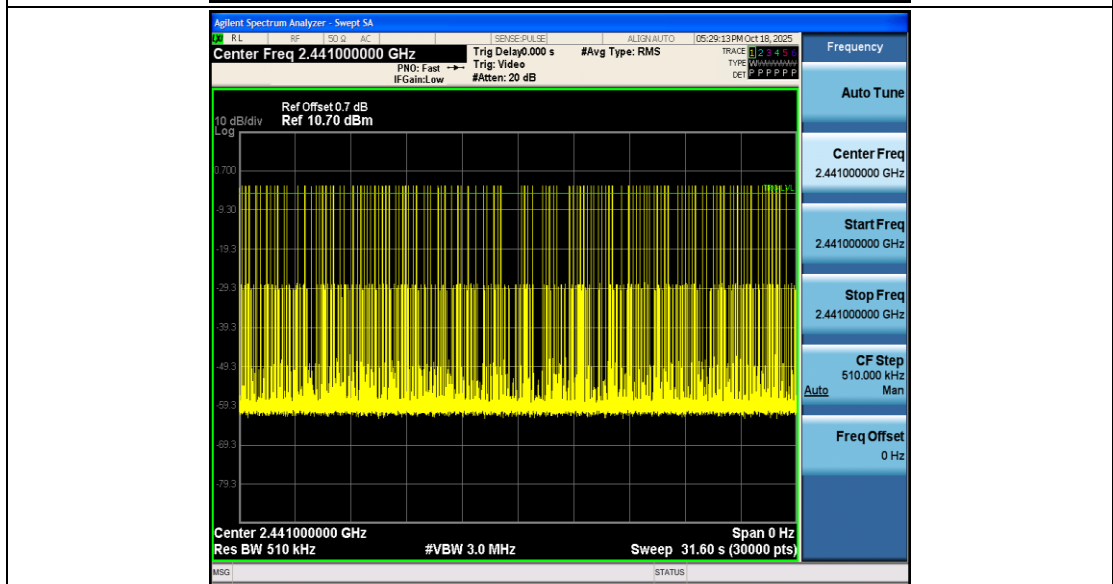
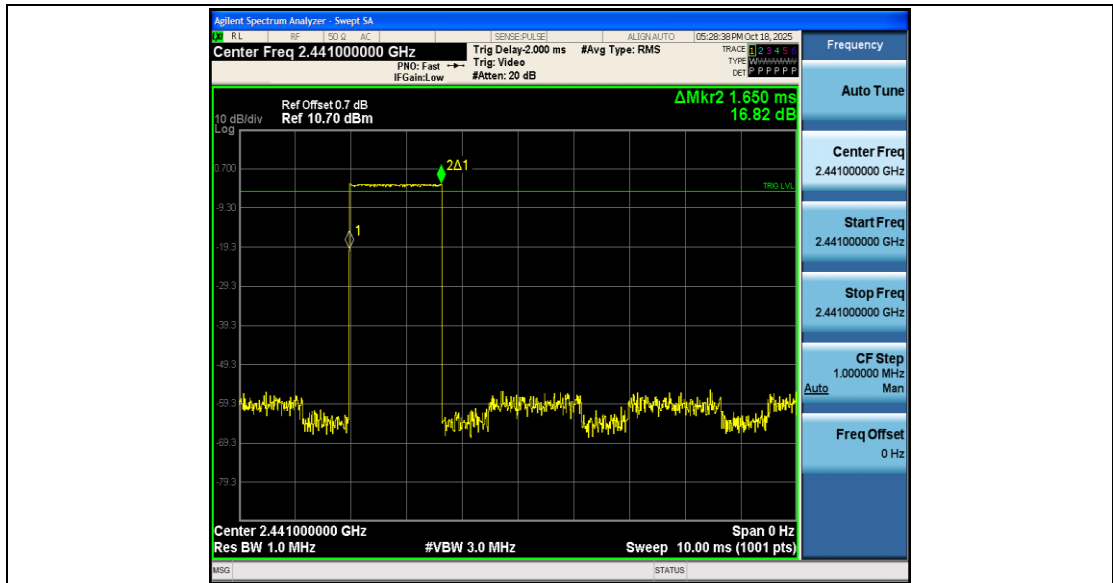
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.650	157	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.890	104	0.301	≤0.4	PASS
2DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.650	151	0.249	≤0.4	PASS
2DH5	Ant1	Hop	2.900	105	0.305	≤0.4	PASS

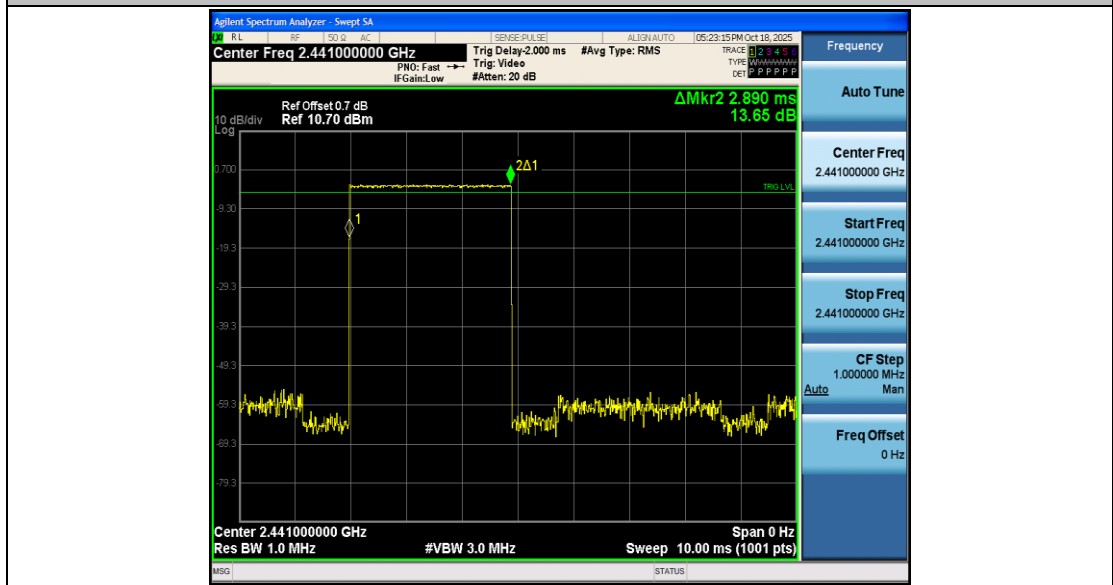
Test Graphs

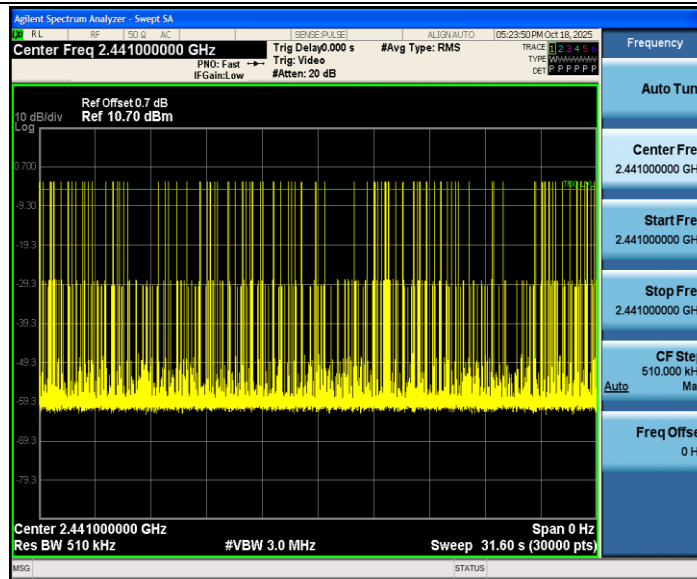


DH3_Ant1_Hop

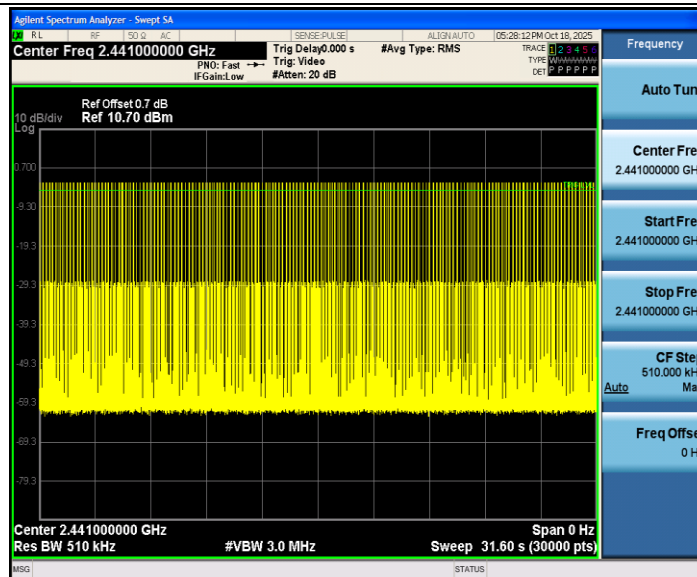
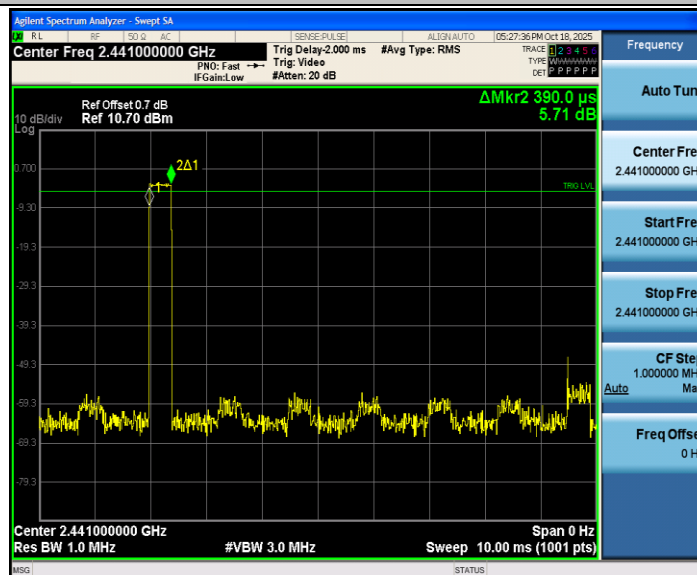


DH5_Ant1_Hop

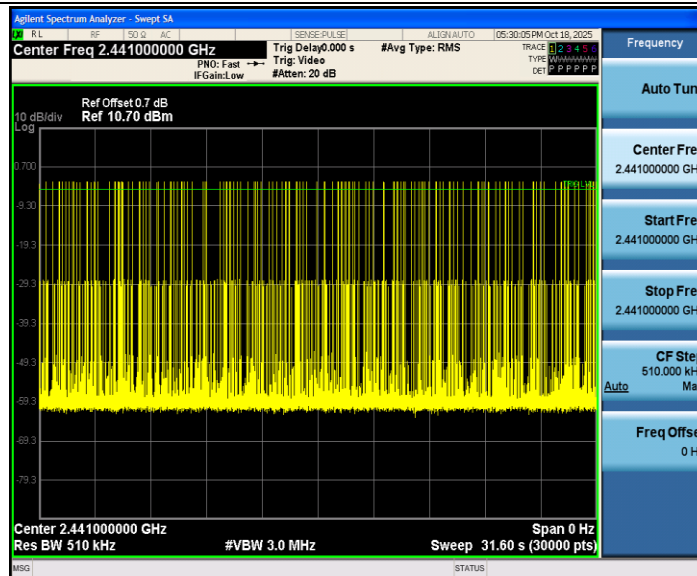




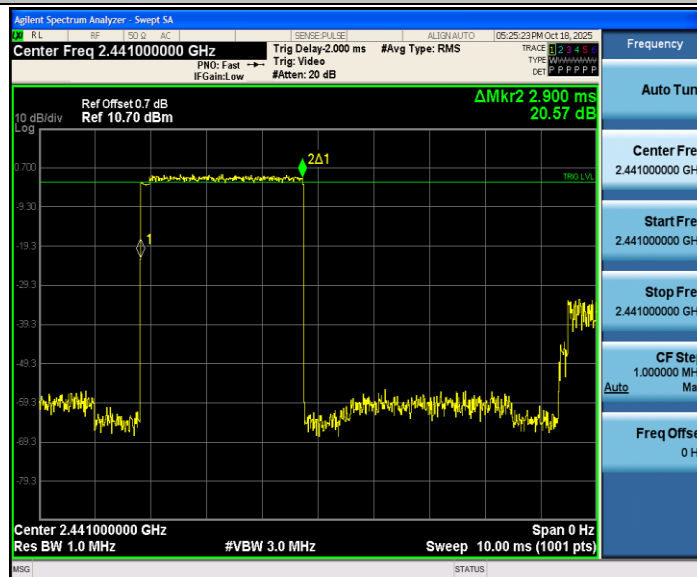
2DH1_Ant1_Hop

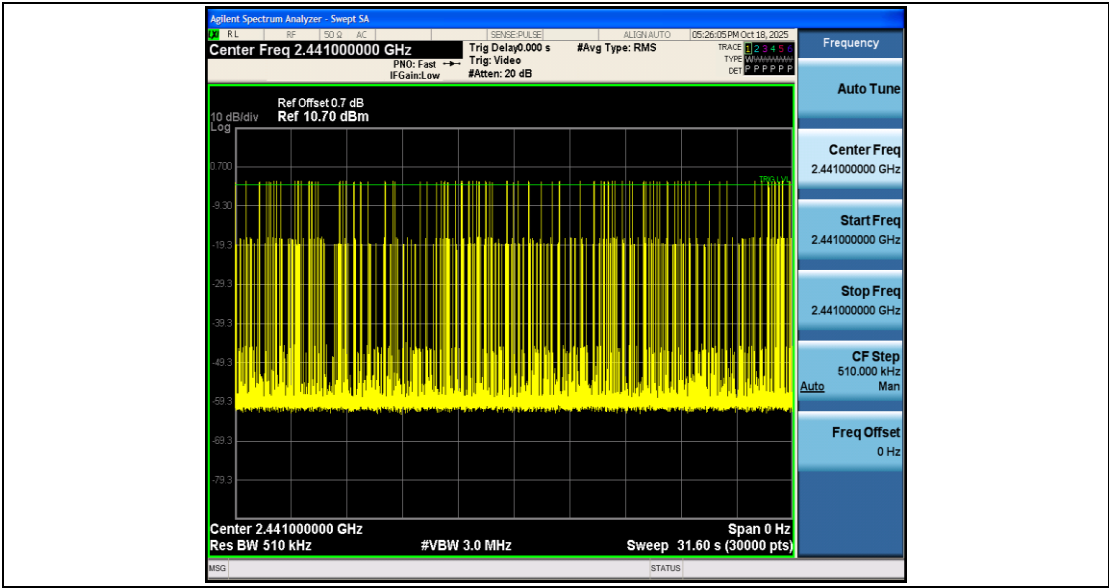


2DH3_Ant1_Hop



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

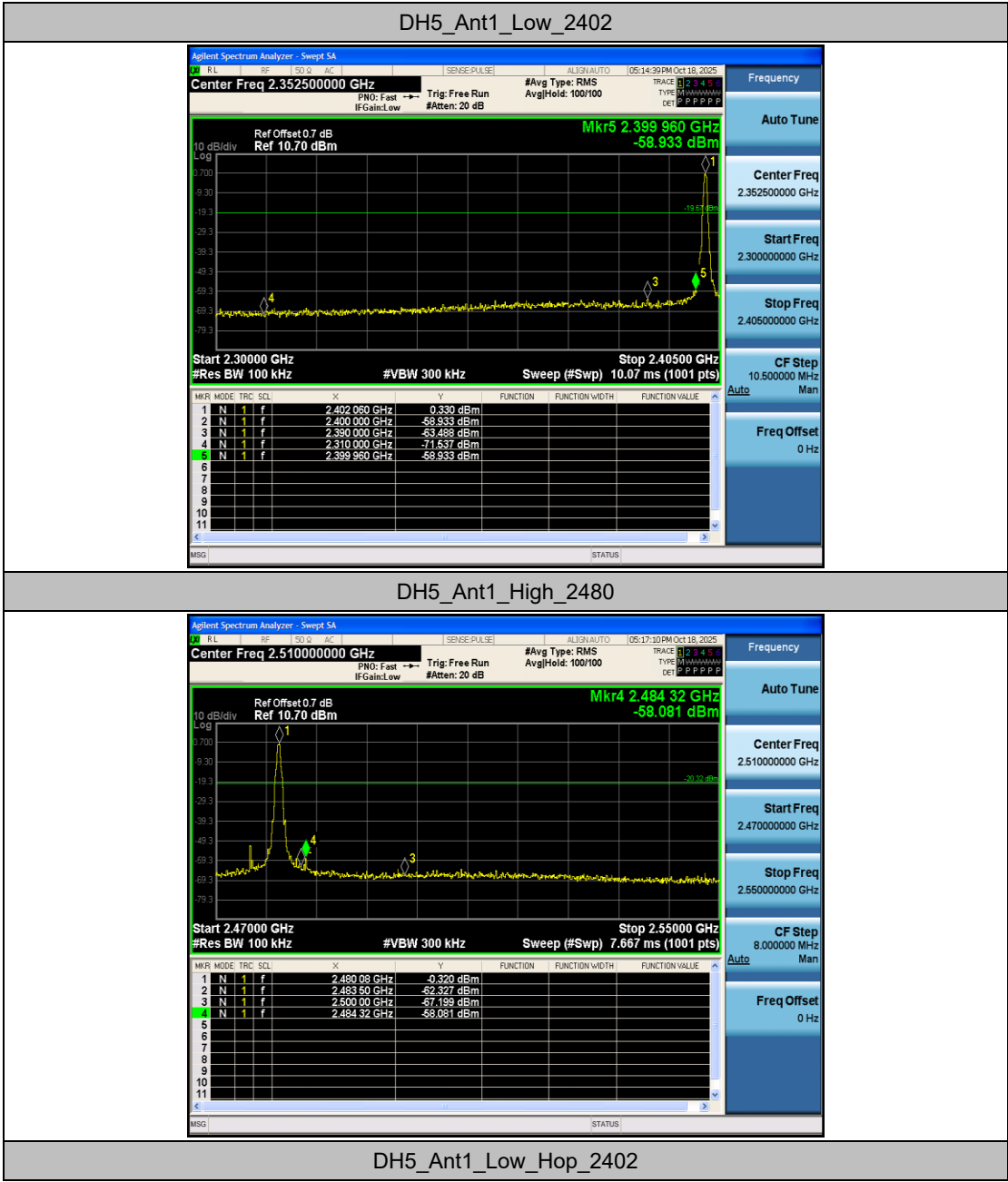


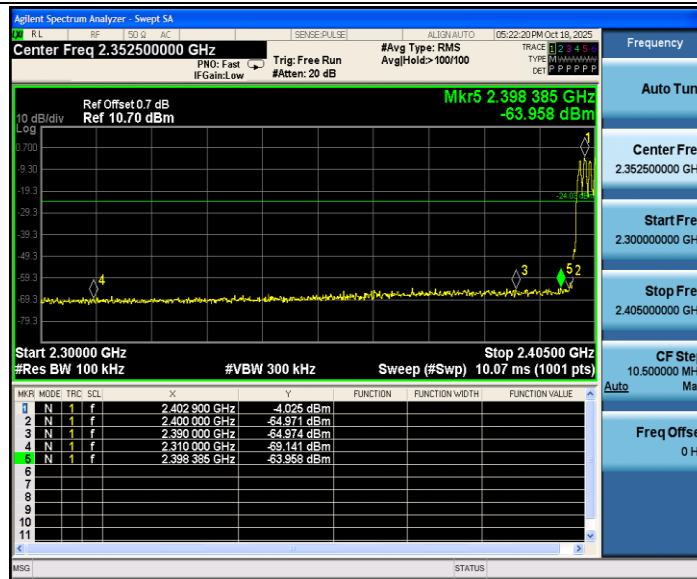
Appendix G: Band edge measurements

Test Result

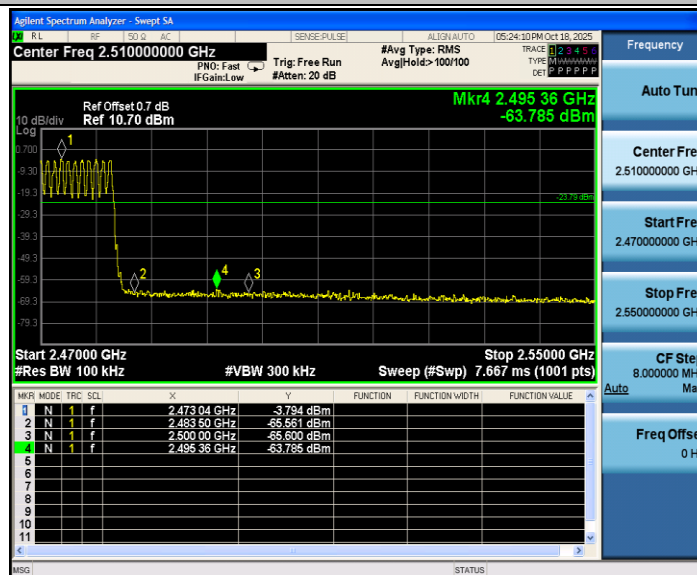
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.33	-58.93	≤-19.67	PASS
		High	2480	-0.32	-58.08	≤-20.32	PASS
		Low	Hop_2402	-4.03	-63.96	≤-24.03	PASS
		High	Hop_2480	-3.79	-63.79	≤-23.79	PASS
2DH5	Ant1	Low	2402	-4.45	-55.91	≤-24.45	PASS
		High	2480	-3.70	-59.11	≤-23.7	PASS
		Low	Hop_2402	-4.58	-61.33	≤-24.58	PASS
		High	Hop_2480	-3.26	-55.59	≤-23.26	PASS

Test Graphs

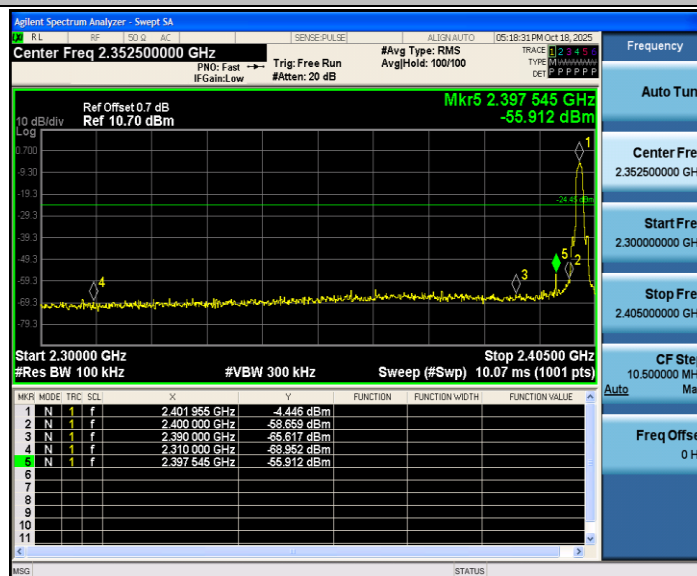




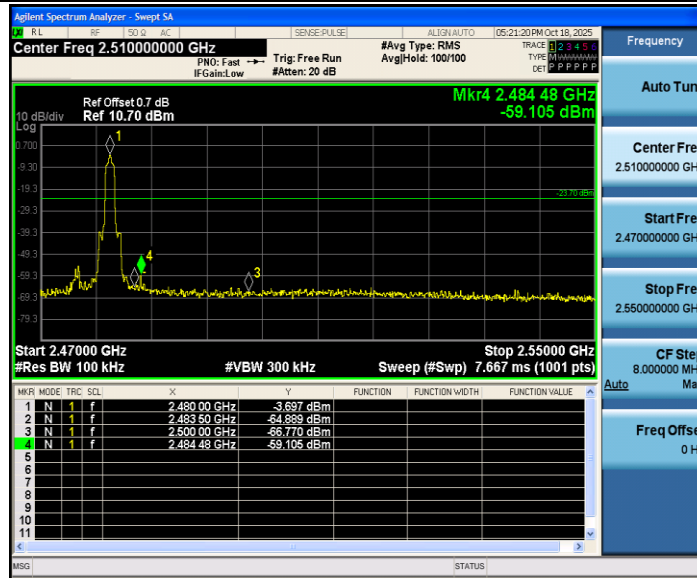
DH5_Ant1_High_Hop_2480



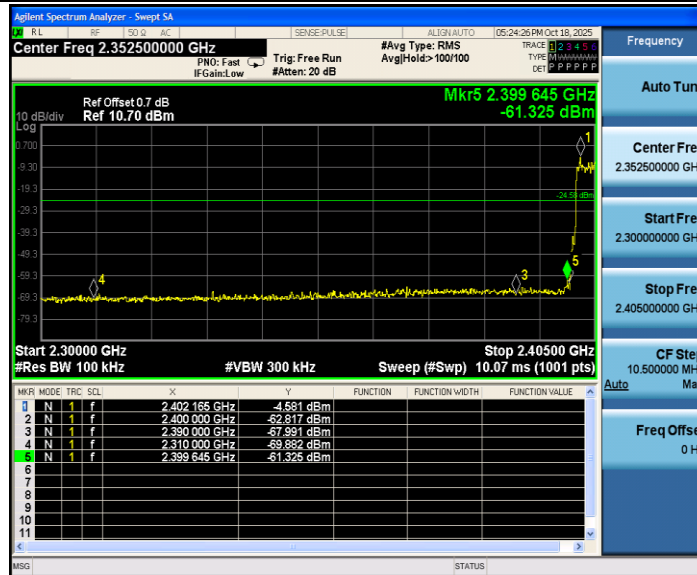
2DH5_Ant1_Low_2402



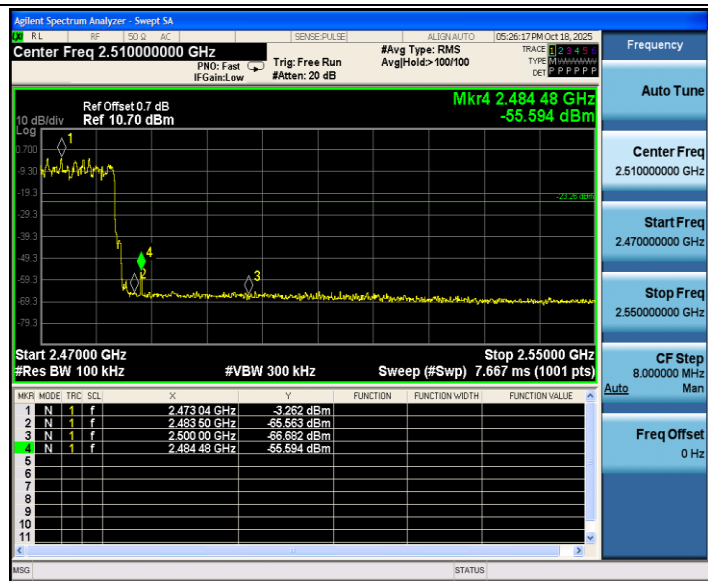
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

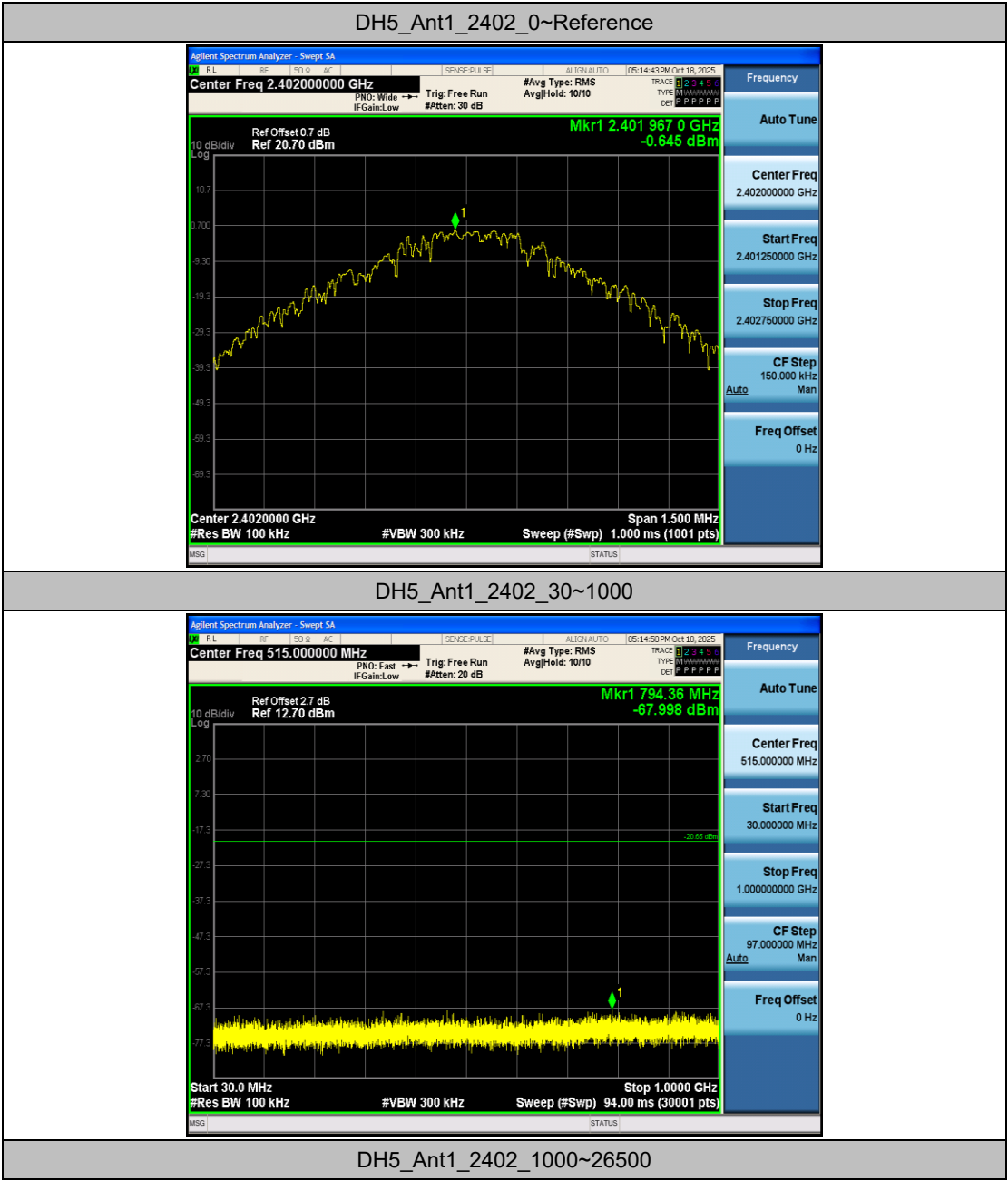


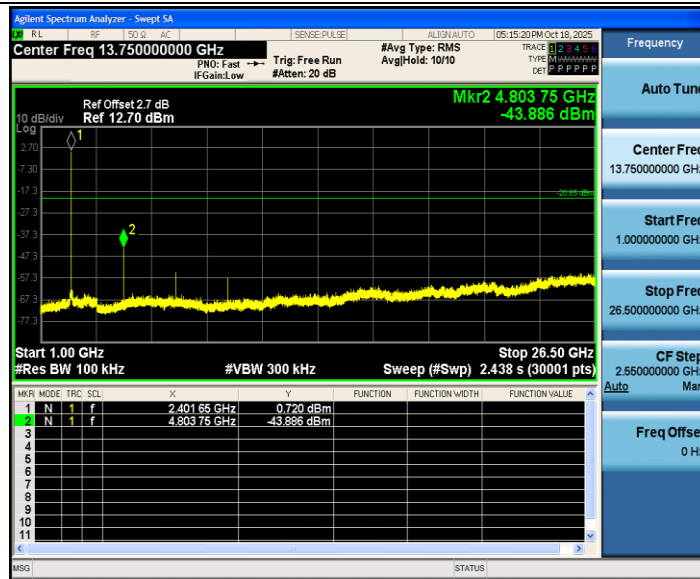
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.65	-0.65	---	PASS
			30~1000	-0.65	-68	≤-20.65	PASS
			1000~26500	-0.65	-43.89	≤-20.65	PASS
		2441	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-67.61	≤-20.42	PASS
			1000~26500	-0.42	-42.77	≤-20.42	PASS
		2480	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-67.51	≤-20.78	PASS
			1000~26500	-0.78	-42.51	≤-20.78	PASS
2DH5	Ant1	2402	Reference	-5.91	-5.91	---	PASS
			30~1000	-5.91	-68.04	≤-25.91	PASS
			1000~26500	-5.91	-48.5	≤-25.91	PASS
		2441	Reference	-5.64	-5.64	---	PASS
			30~1000	-5.64	-66.69	≤-25.64	PASS
			1000~26500	-5.64	-47.49	≤-25.64	PASS
		2480	Reference	-5.09	-5.09	---	PASS
			30~1000	-5.09	-67.81	≤-25.09	PASS
			1000~26500	-5.09	-45.89	≤-25.09	PASS

Test Graphs

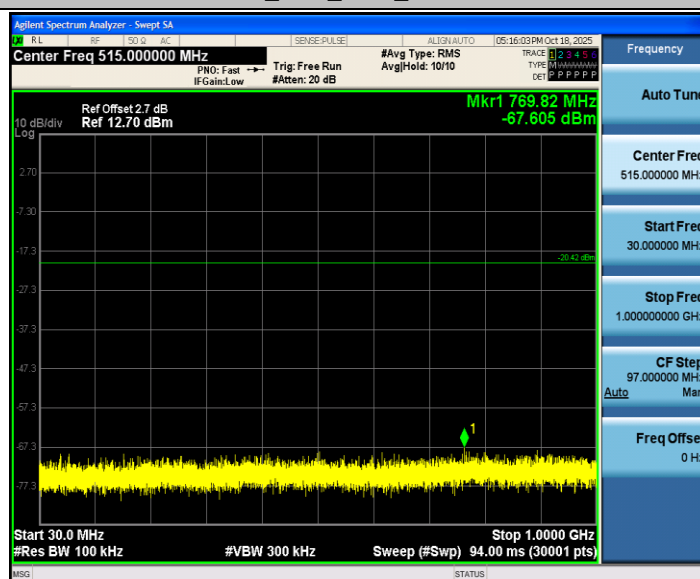




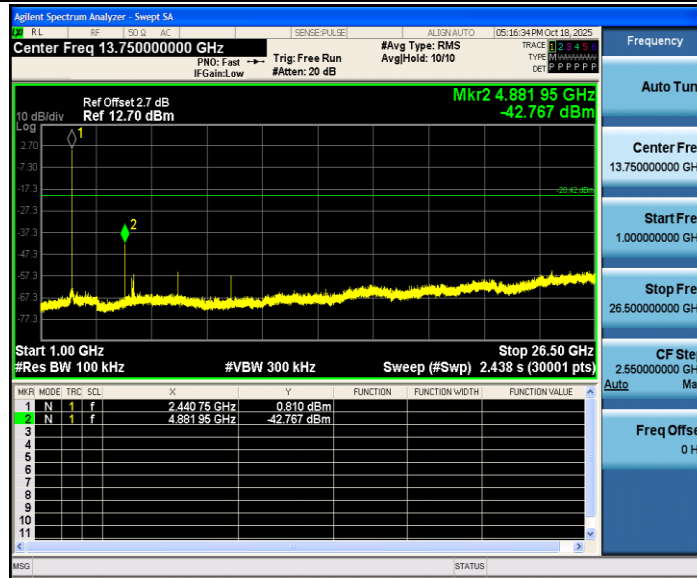
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



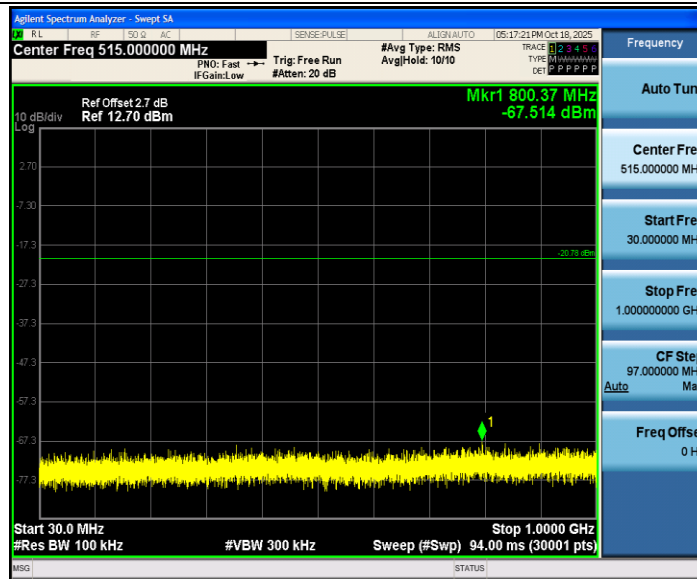
DH5_Ant1_2441_1000~26500



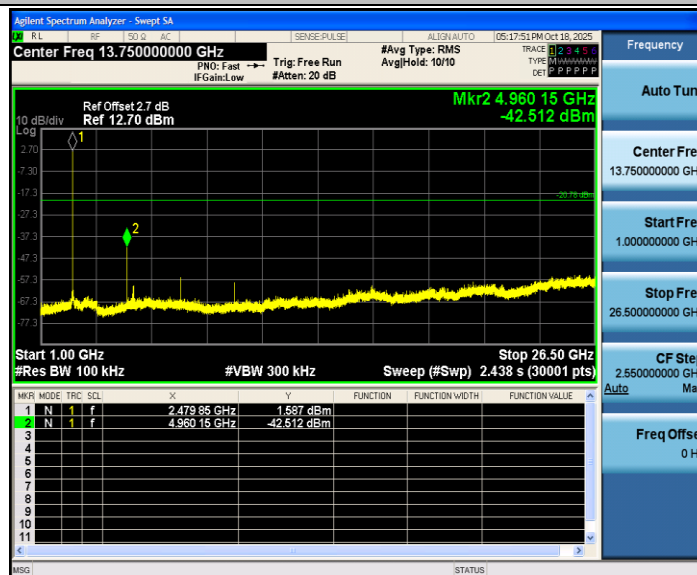
DH5_Ant1_2480_0~Reference



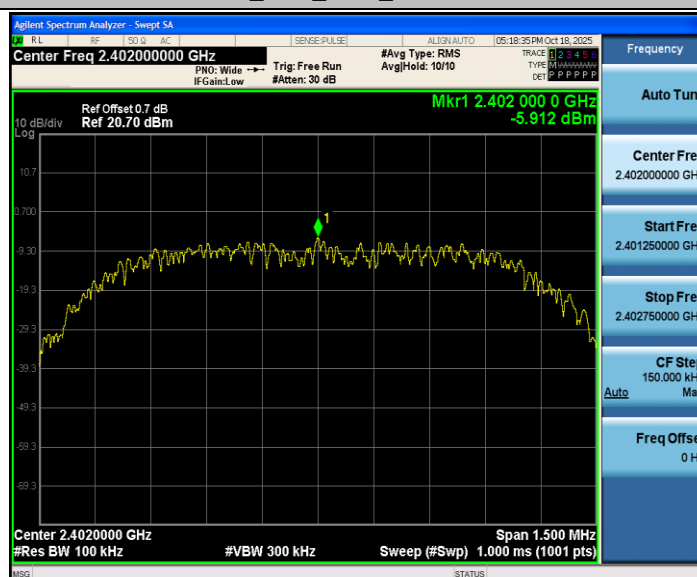
DH5_Ant1_2480_30~1000



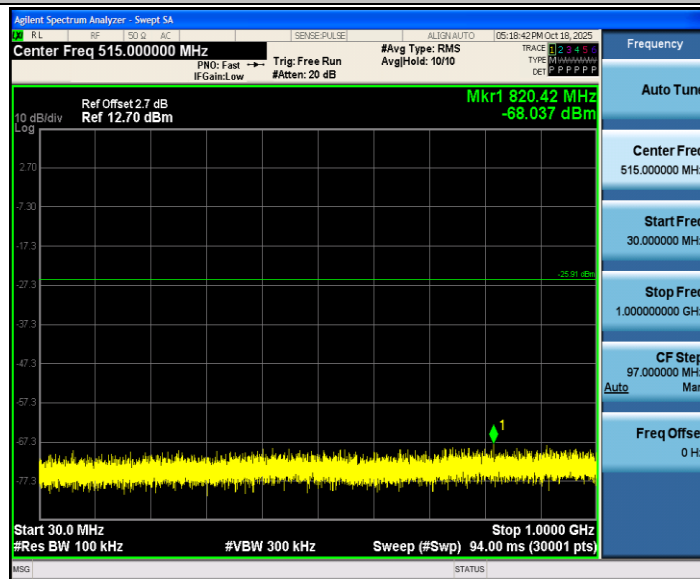
DH5_Ant1_2480_1000~26500



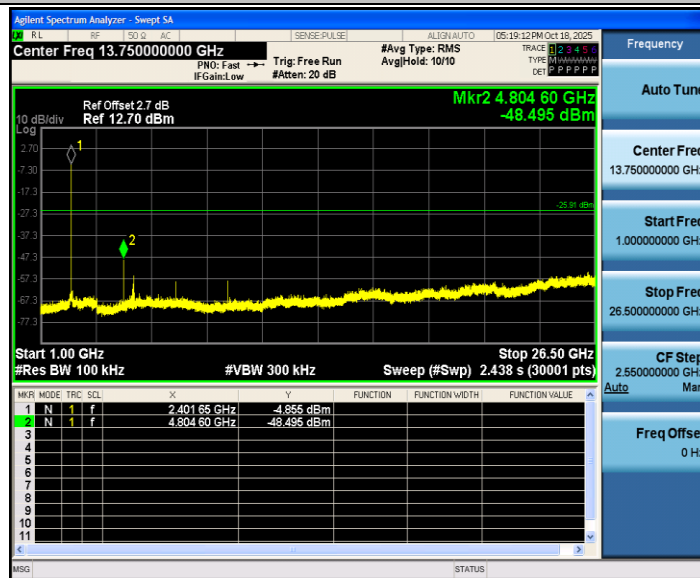
2DH5_Ant1_2402_0~Reference



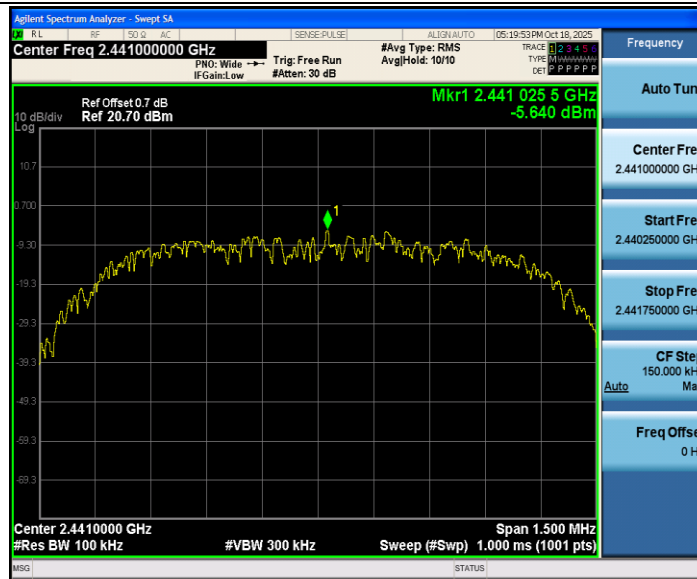
2DH5_Ant1_2402_30~1000



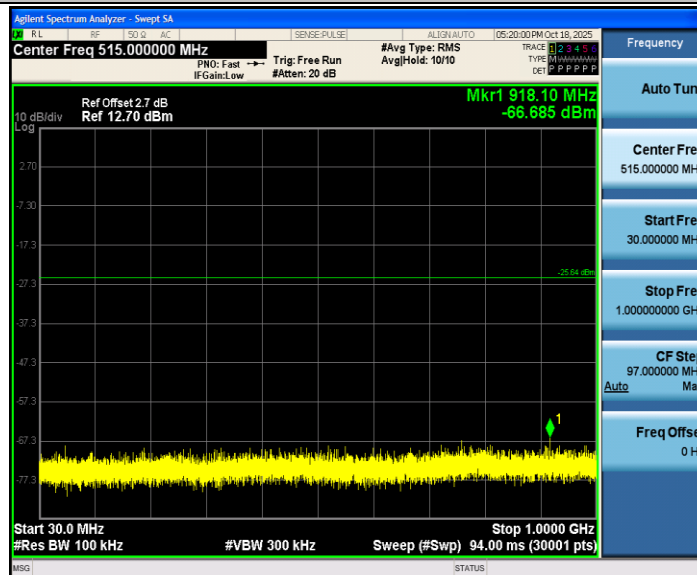
2DH5_Ant1_2402_1000~26500



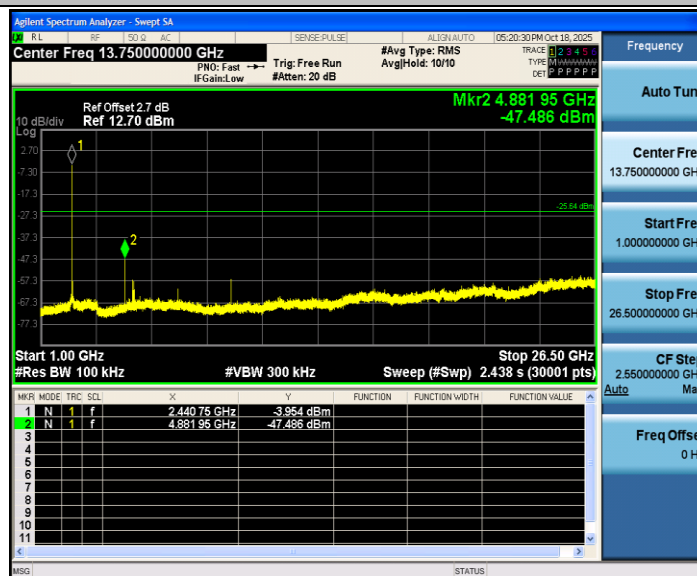
2DH5_Ant1_2441_0~Reference



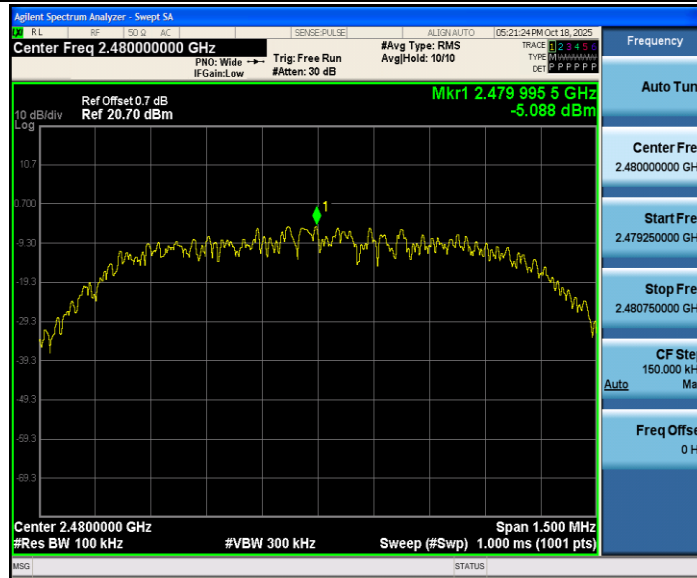
2DH5_Ant1_2441_30~1000



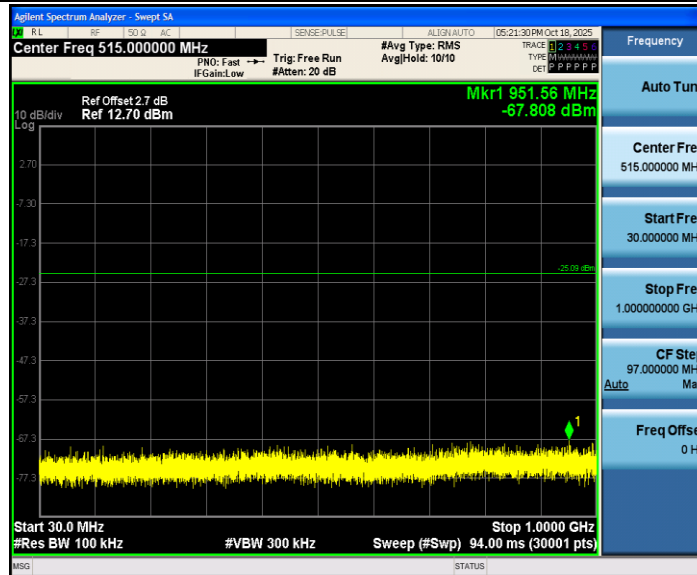
2DH5_Ant1_2441_1000~26500



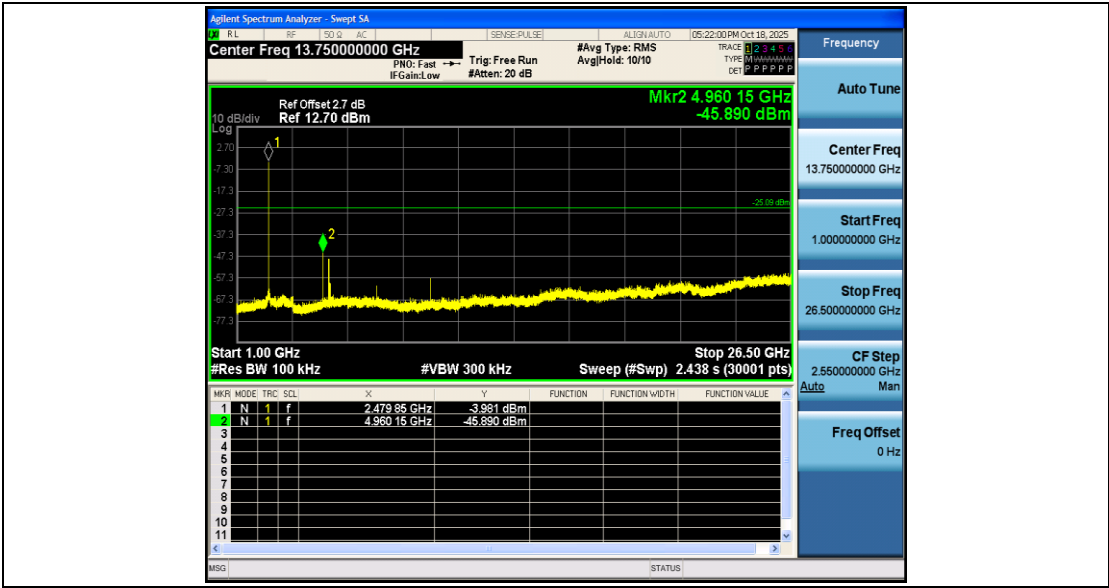
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

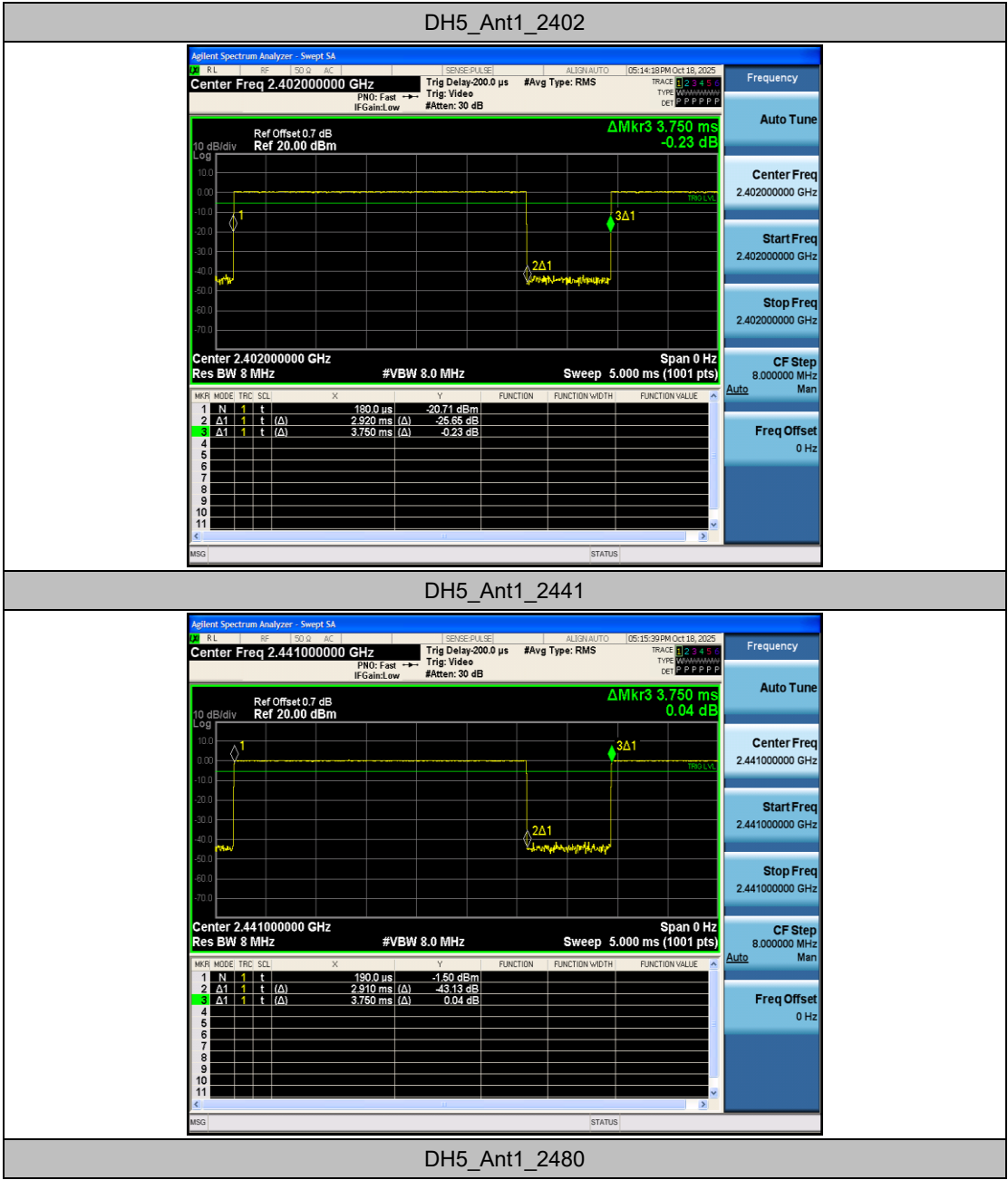


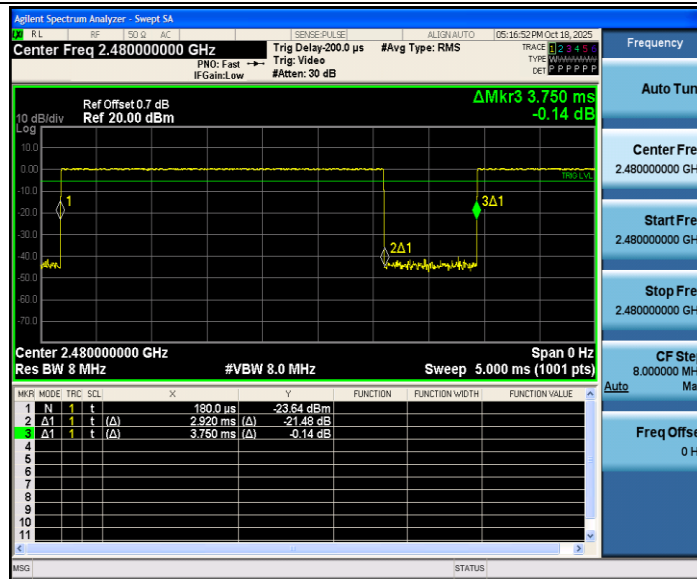
Appendix I: Duty Cycle

Test Result

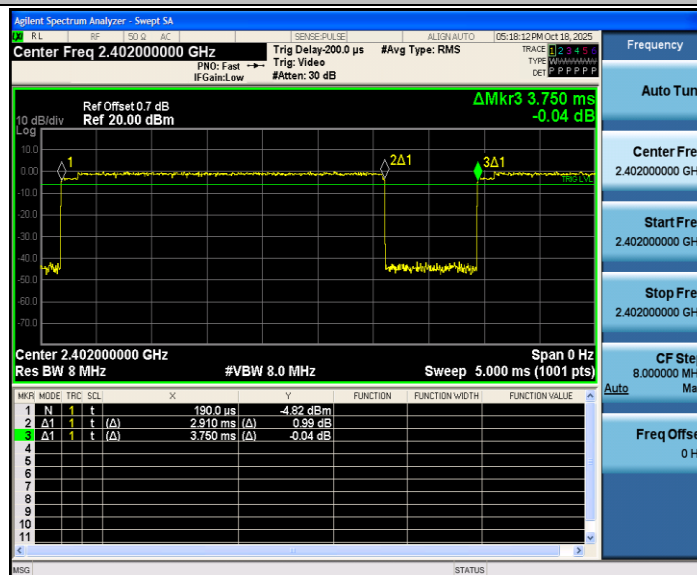
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---

Test Graphs

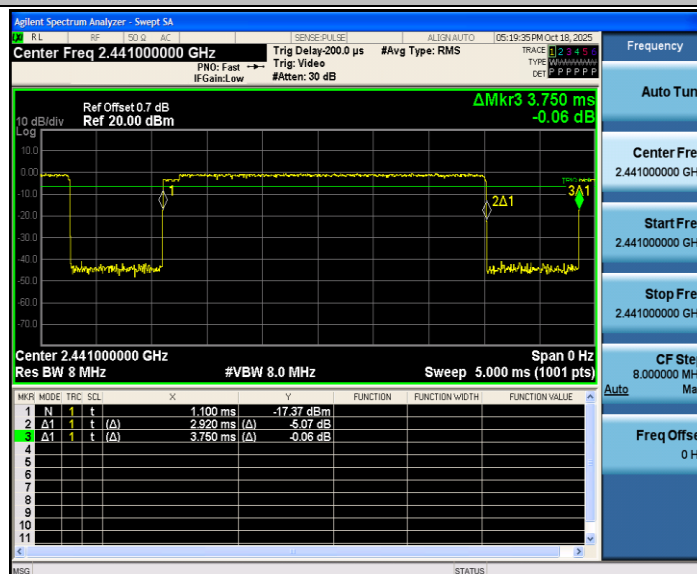




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

