

Appendix RF Test Data for BT

FCC ID : 2A48I-RM02

Company : Ningbo Jiufeng Electrical Appliance Co., Ltd.

EUT : TREADMILL

Model Number : RM02

Report No. : CTA25082501701

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	0.948	2440.544	2441.492	---	---
		2480	0.939	2479.553	2480.492	---	---
2DH5	Ant1	2402	1.272	2401.379	2402.651	---	---
		2441	1.278	2440.379	2441.657	---	---
		2480	1.272	2479.388	2480.660	---	---

Test Graphs

DH5_Ant1_2402



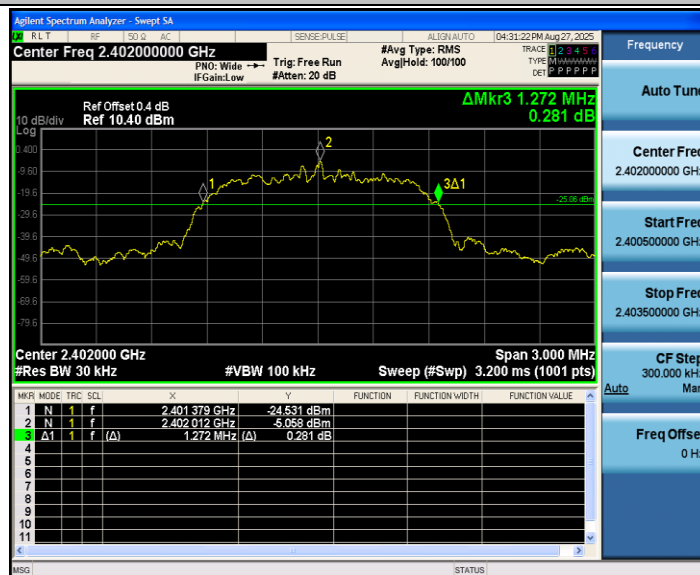
DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

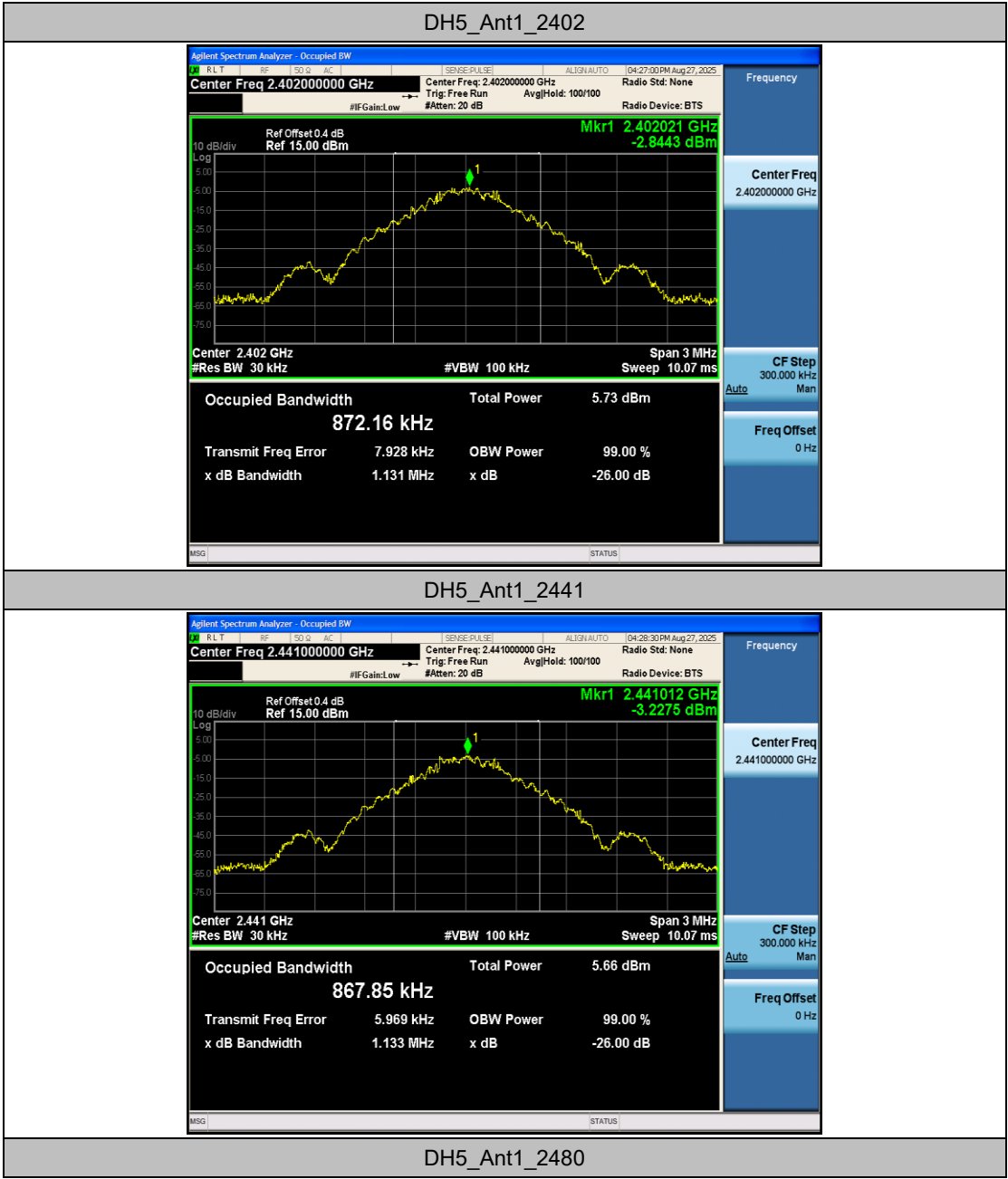


Appendix B: Occupied Channel Bandwidth

Test Result

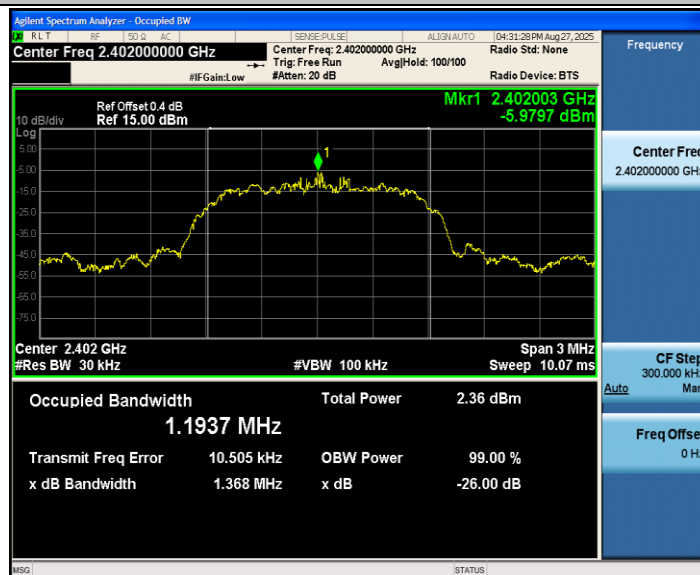
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87216	2401.5719	2402.4440	---	---
		2441	0.86785	2440.5720	2441.4399	---	---
		2480	0.87143	2479.5739	2480.4454	---	---
2DH5	Ant1	2402	1.1937	2401.4137	2402.6074	---	---
		2441	1.1919	2440.4133	2441.6052	---	---
		2480	1.1907	2479.4153	2480.6060	---	---

Test Graphs

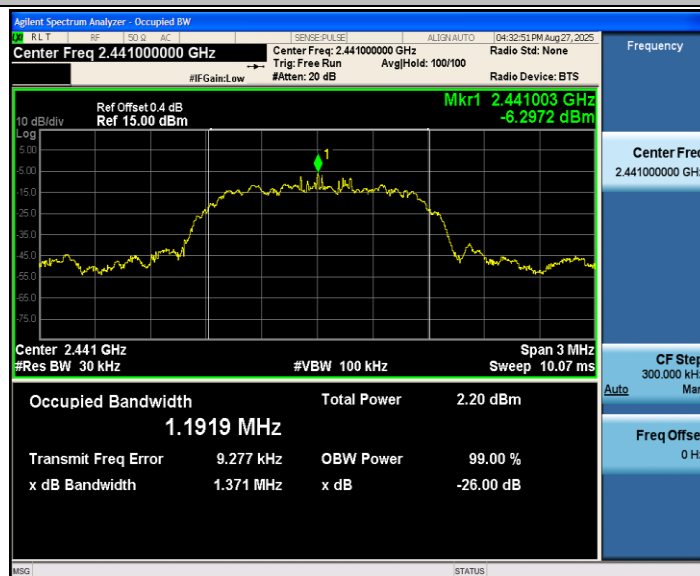




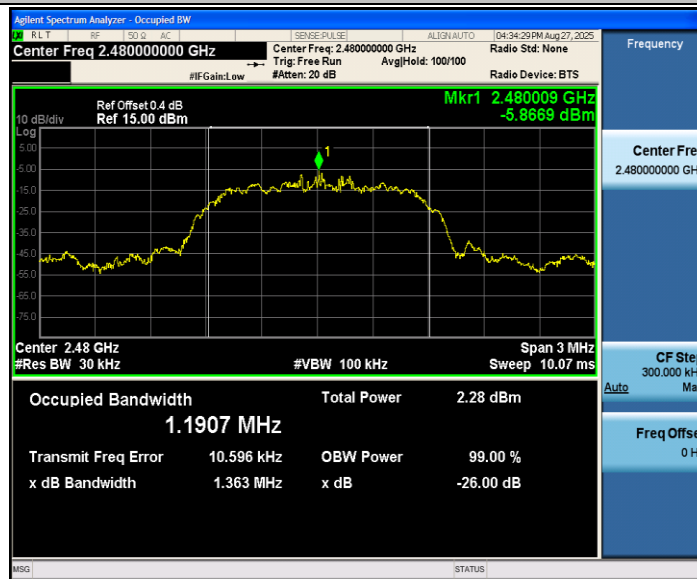
2DH5_Ant1_2402



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	-0.14	≤20.97	PASS
		2441	-0.33	≤20.97	PASS
		2480	-0.37	≤20.97	PASS
2DH5	Ant1	2402	-0.95	≤30	PASS
		2441	-1.14	≤30	PASS
		2480	-1.15	≤30	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.640	PASS
2DH5	Ant1	Hop	1.256	≥ 0.852	PASS

Test Graphs

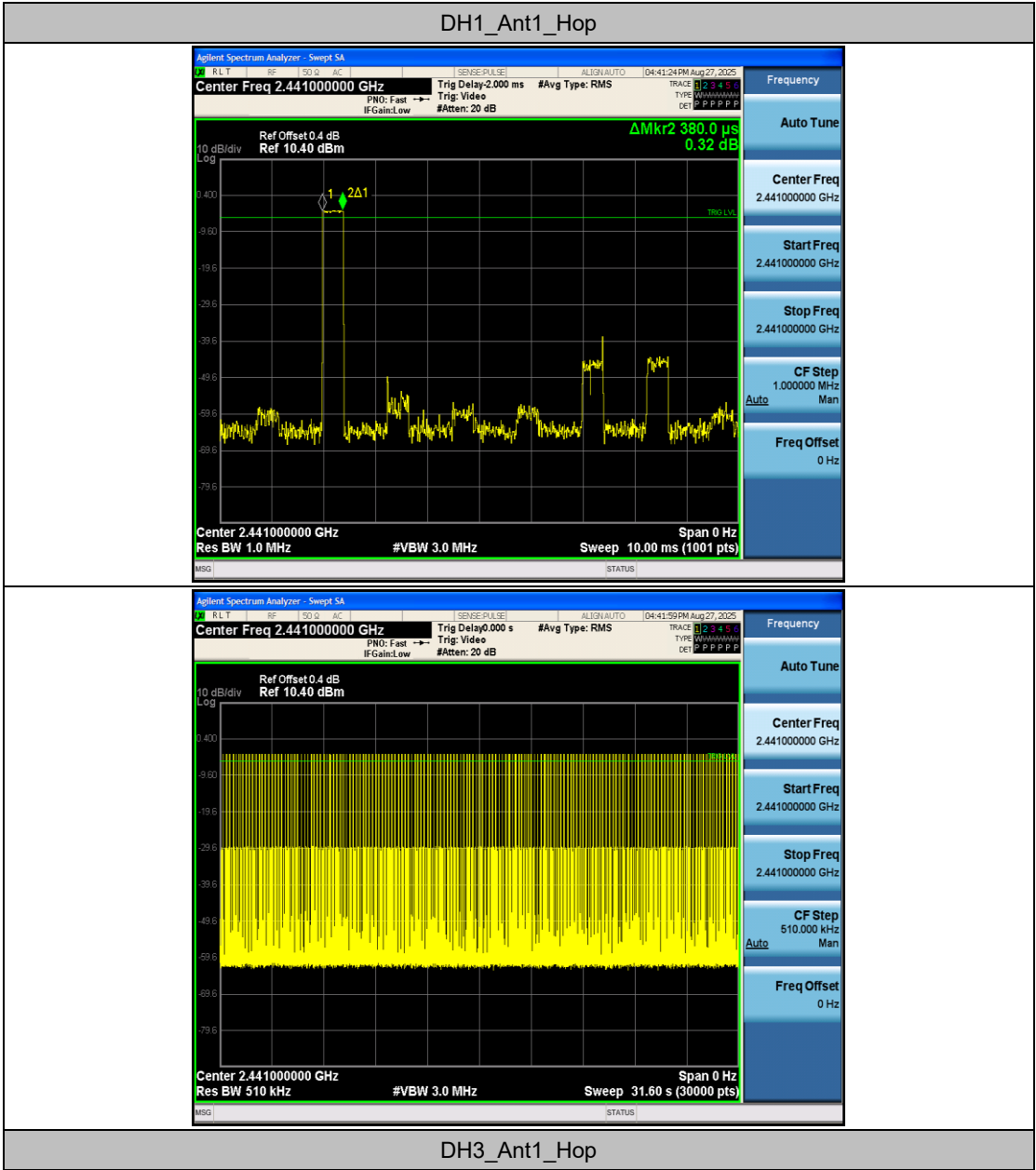


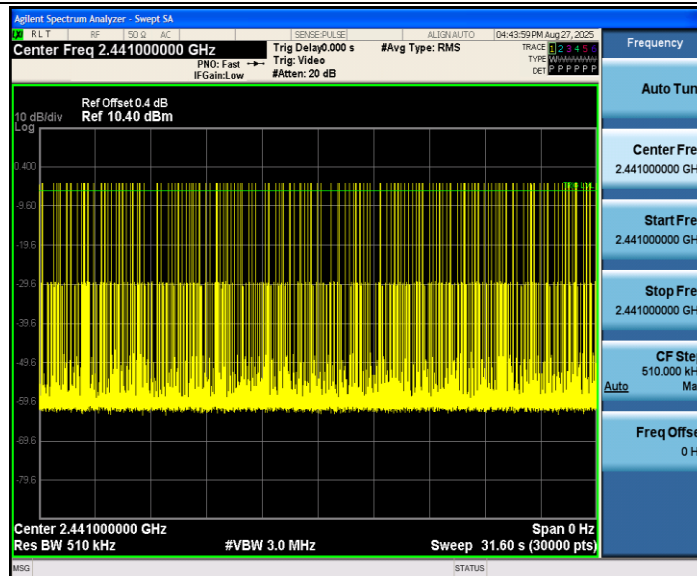
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	315	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.640	172	0.282	≤0.4	PASS
DH5	Ant1	Hop	2.890	106	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.640	151	0.248	≤0.4	PASS
2DH5	Ant1	Hop	2.900	116	0.336	≤0.4	PASS

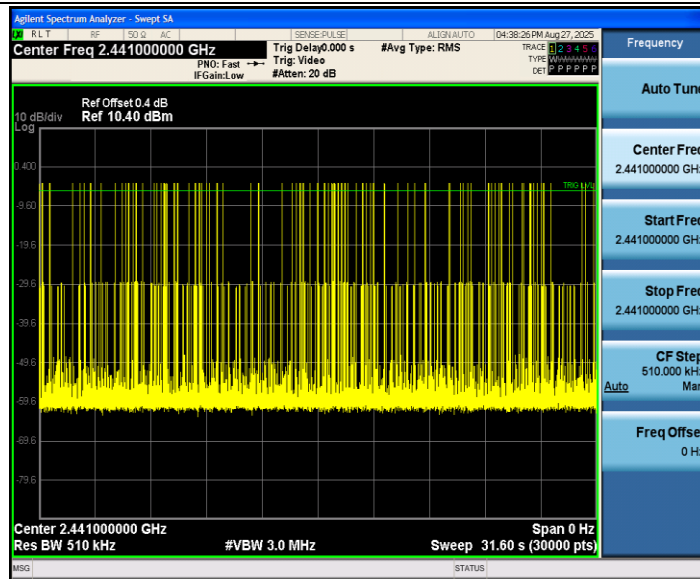
Test Graphs



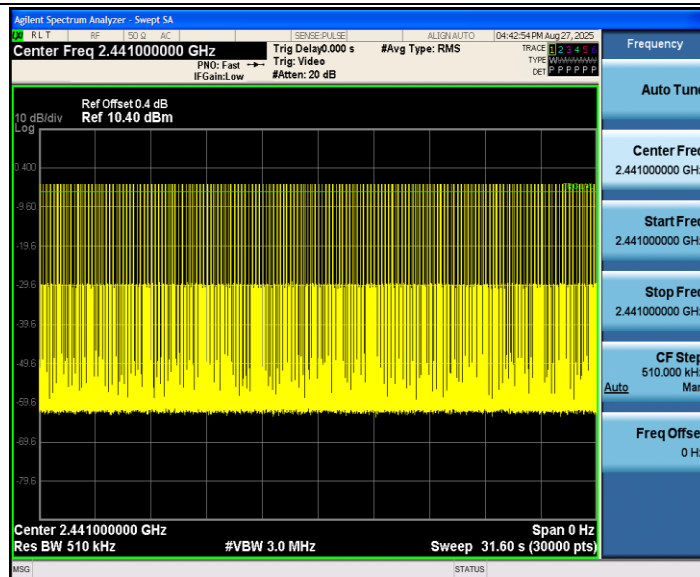
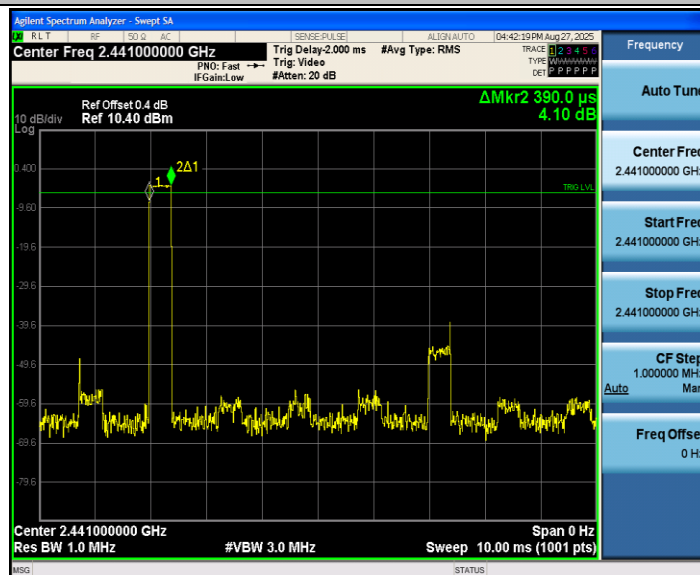


DH5_Ant1_Hop

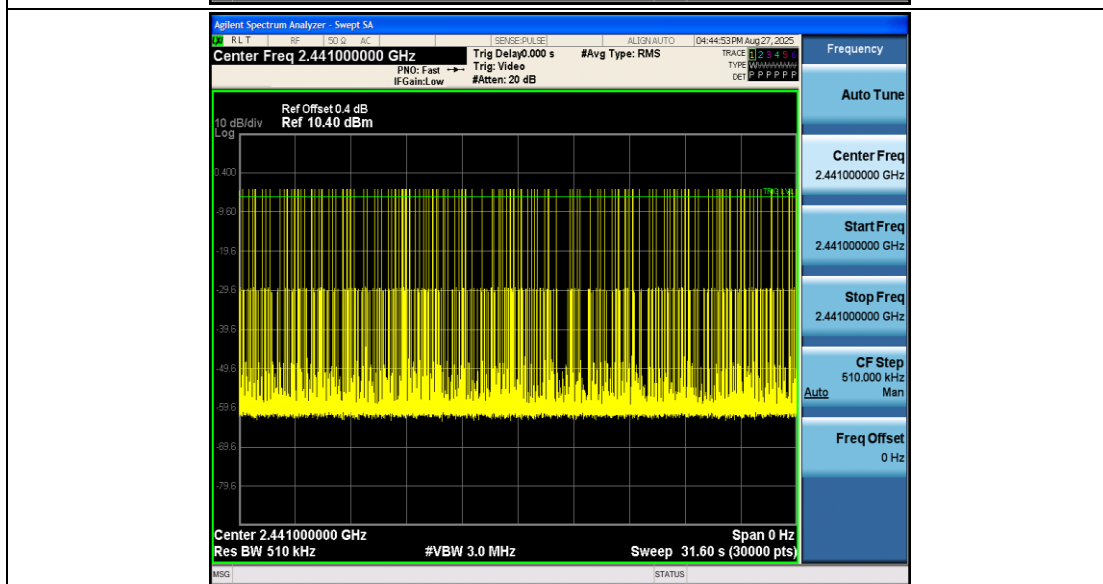




2DH1_Ant1_Hop

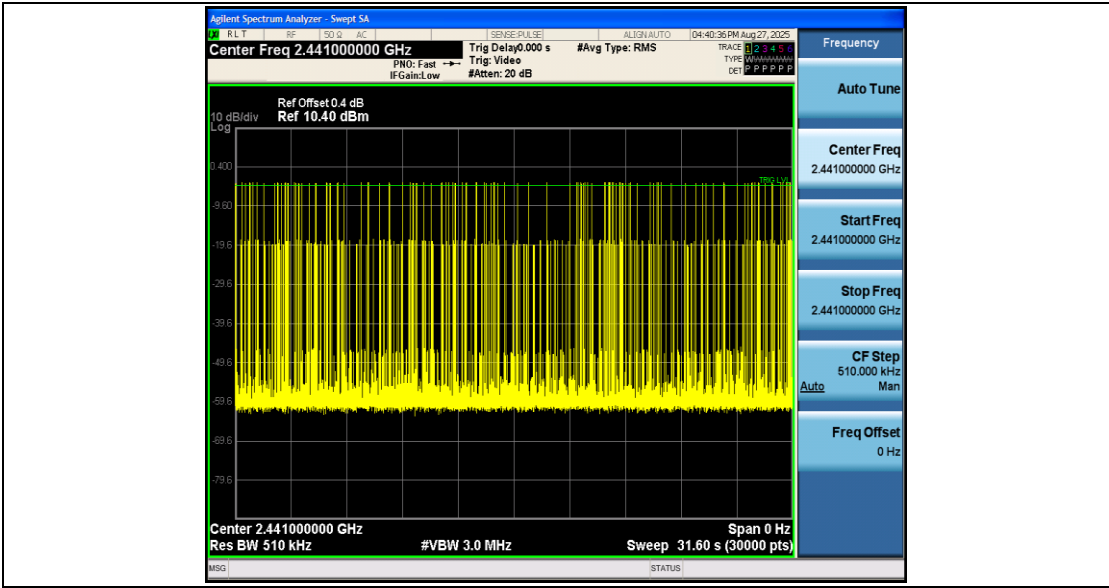


2DH3_Ant1_Hop



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

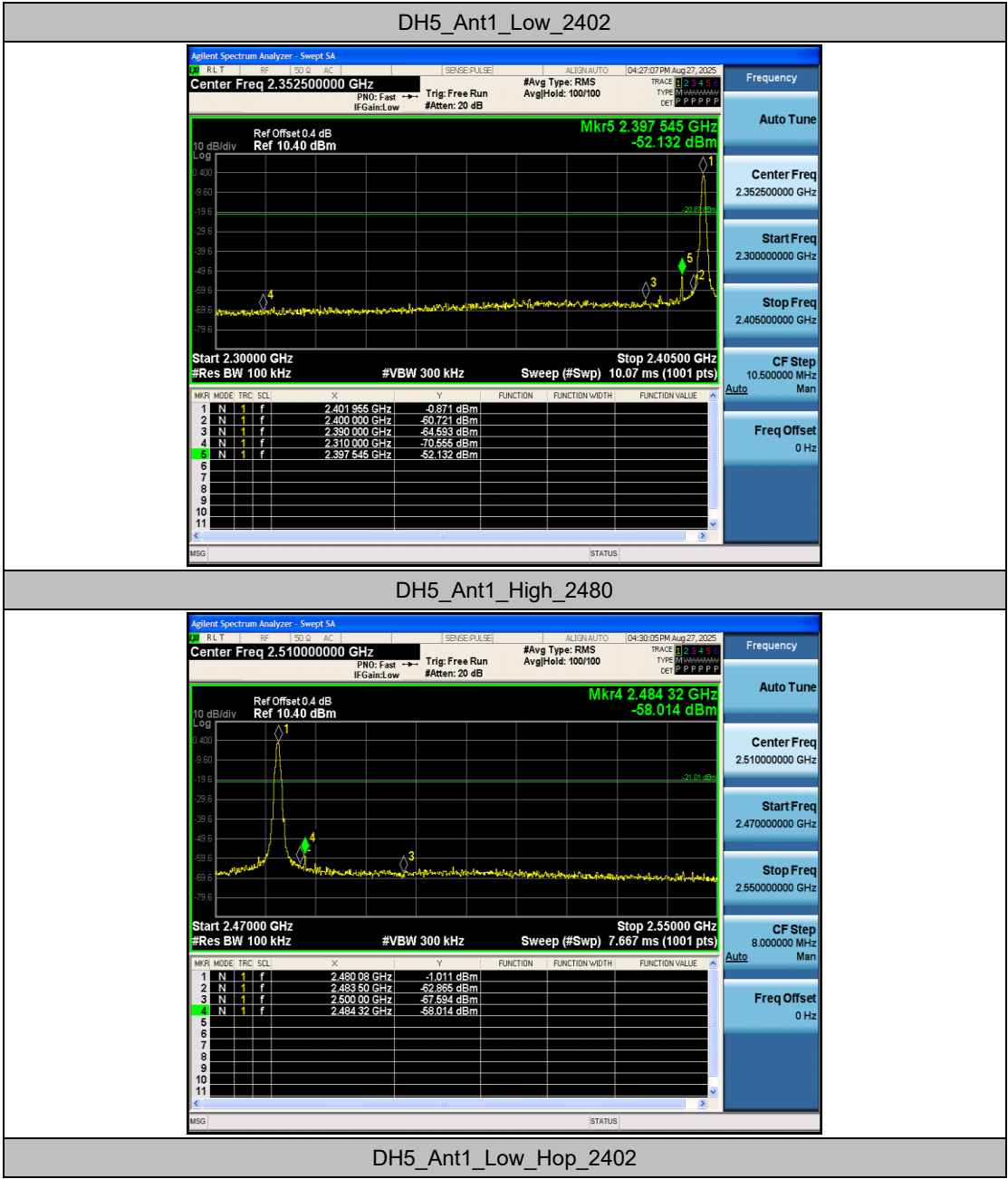


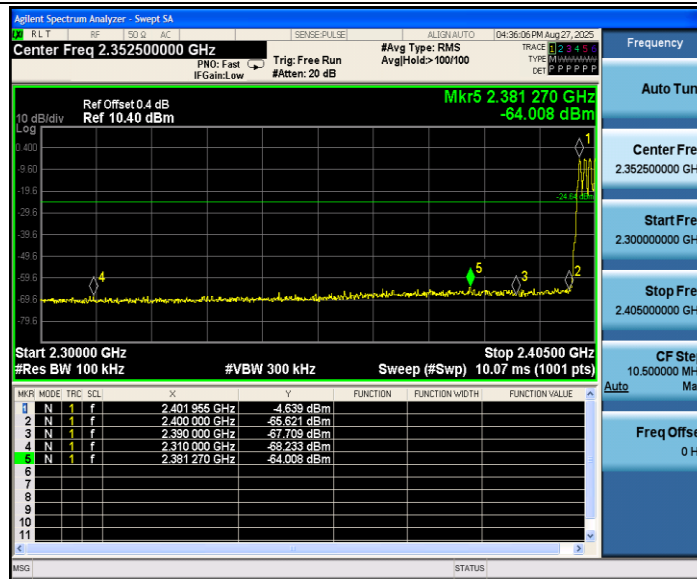
Appendix G: Band edge measurements

Test Result

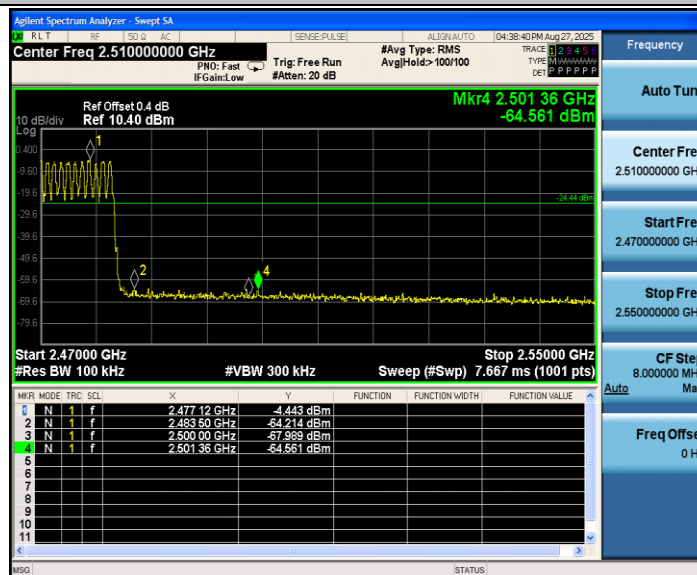
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.87	-52.13	≤-20.87	PASS
		High	2480	-1.01	-58.01	≤-21.01	PASS
		Low	Hop_2402	-4.64	-64.01	≤-24.64	PASS
		High	Hop_2480	-4.44	-64.56	≤-24.44	PASS
2DH5	Ant1	Low	2402	-6.53	-61.78	≤-26.53	PASS
		High	2480	-3.99	-56.87	≤-23.99	PASS
		Low	Hop_2402	-5.38	-62.51	≤-25.38	PASS
		High	Hop_2480	-3.90	-63.7	≤-23.9	PASS

Test Graphs

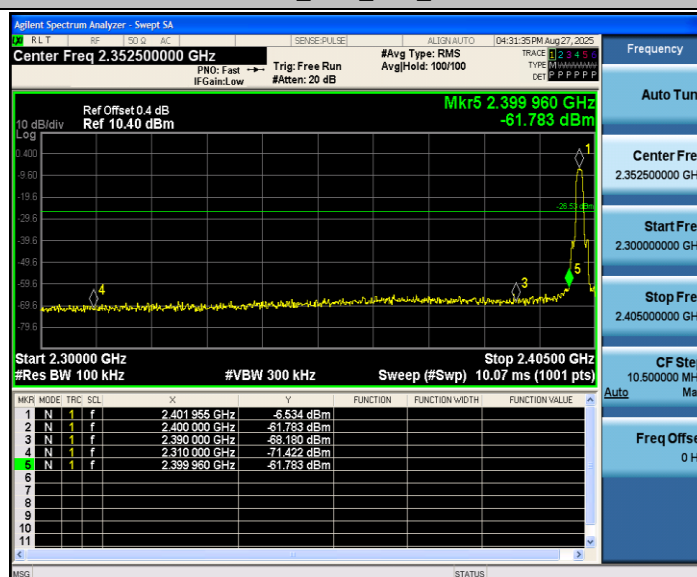




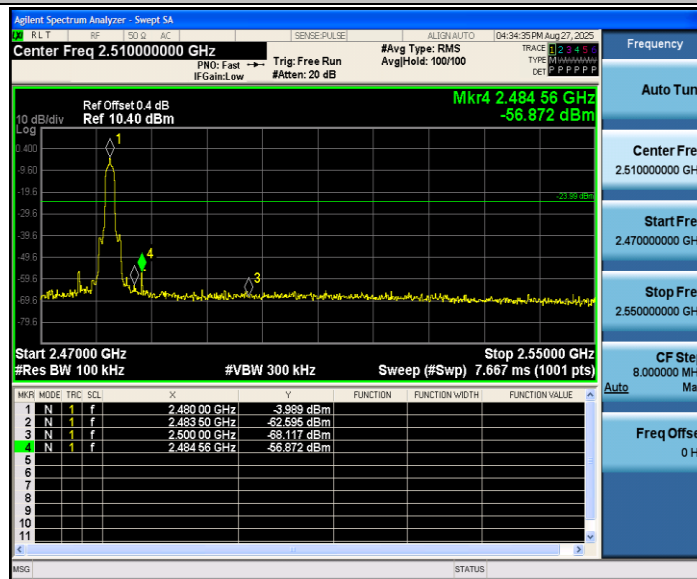
DH5_Ant1_High_Hop_2480



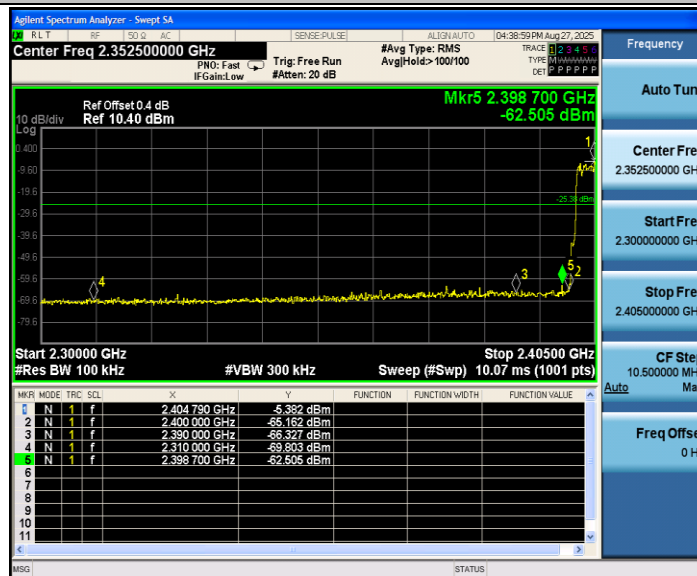
2DH5_Ant1_Low_2402



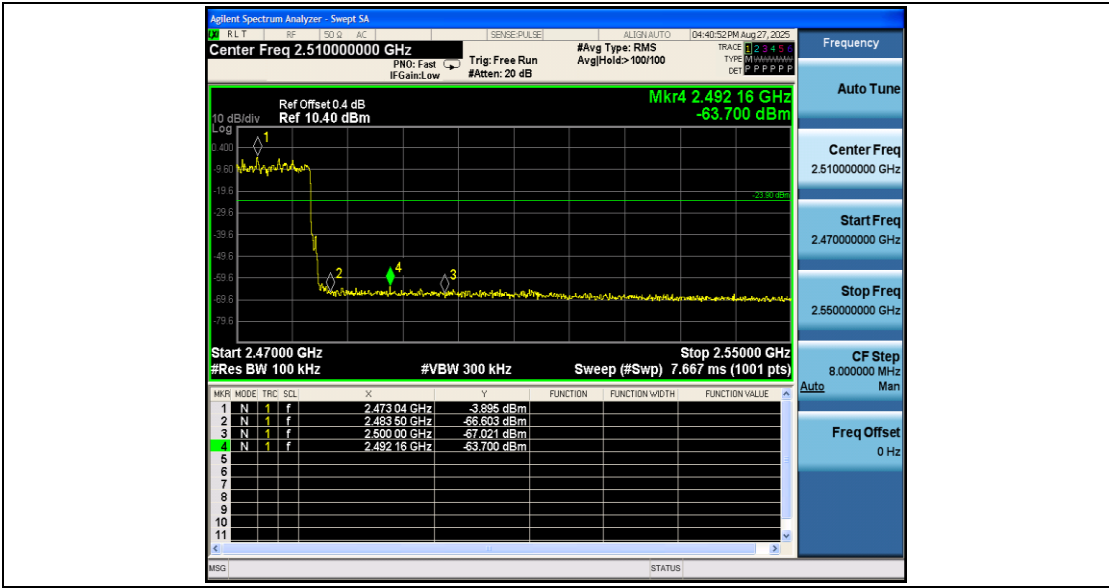
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

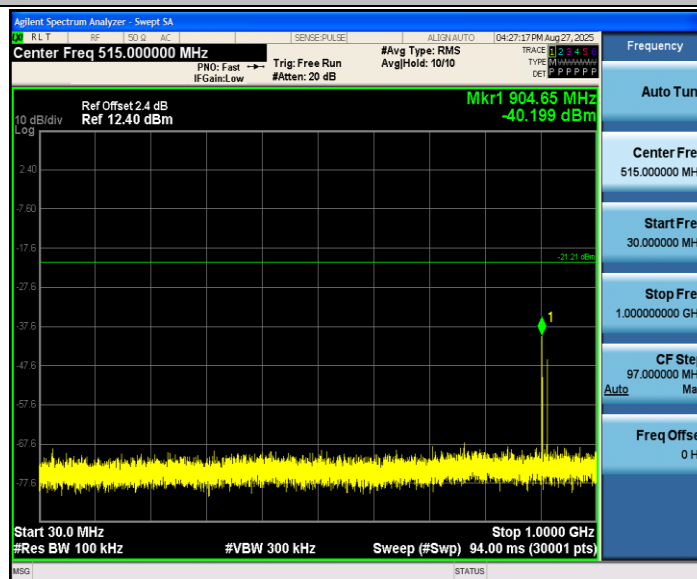
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-40.2	≤-21.21	PASS
			1000~26500	-1.21	-45.34	≤-21.21	PASS
		2441	Reference	-1.42	-1.42	---	PASS
			30~1000	-1.42	-55.33	≤-21.42	PASS
			1000~26500	-1.42	-43.5	≤-21.42	PASS
		2480	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-55.08	≤-21.35	PASS
			1000~26500	-1.35	-45.66	≤-21.35	PASS
2DH5	Ant1	2402	Reference	-5.15	-5.15	---	PASS
			30~1000	-5.15	-53.01	≤-25.15	PASS
			1000~26500	-5.15	-48.94	≤-25.15	PASS
		2441	Reference	-5.36	-5.36	---	PASS
			30~1000	-5.36	-67.04	≤-25.36	PASS
			1000~26500	-5.36	-51.47	≤-25.36	PASS
		2480	Reference	-7.24	-7.24	---	PASS
			30~1000	-7.24	-68.13	≤-27.24	PASS
			1000~26500	-7.24	-41.33	≤-27.24	PASS

Test Graphs

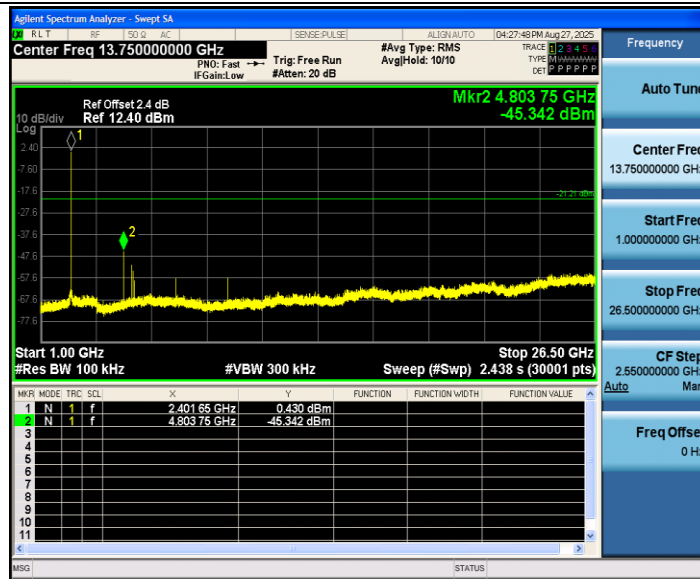
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



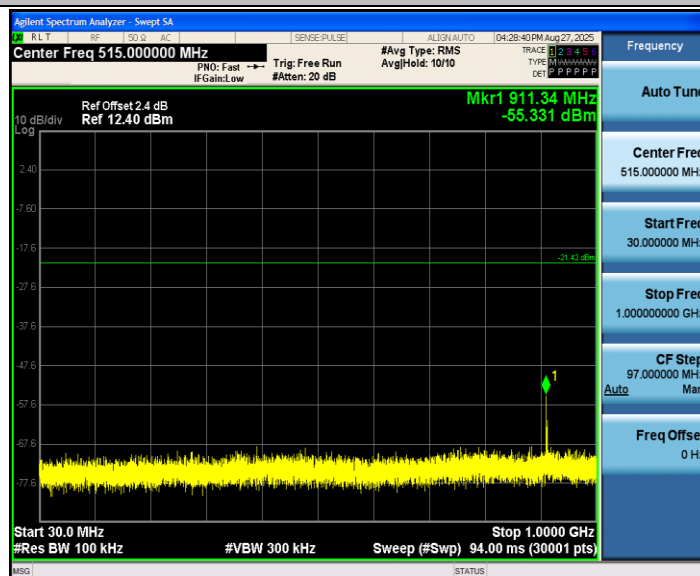
DH5_Ant1_2402_1000~26500



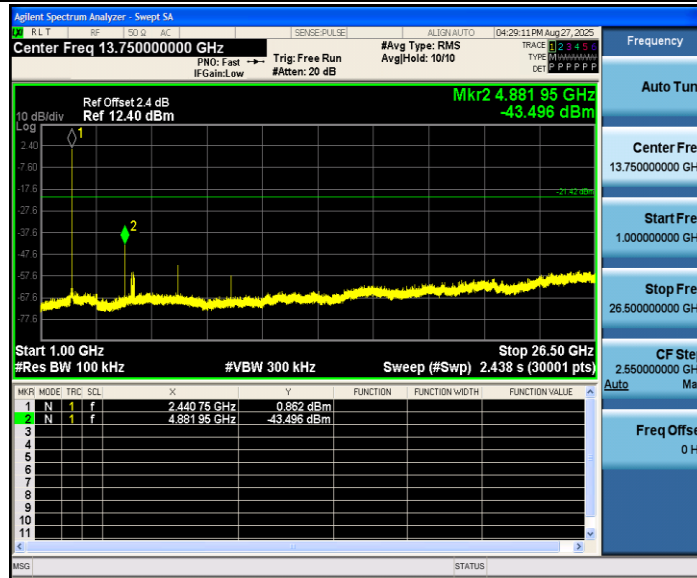
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



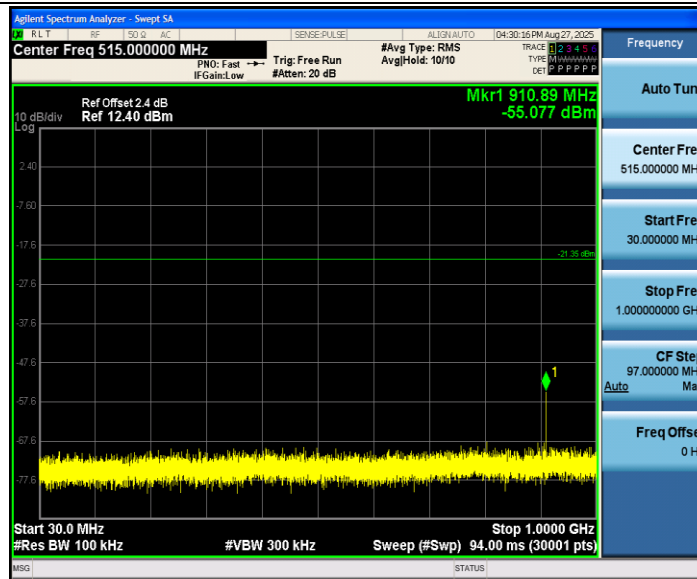
DH5_Ant1_2441_1000~26500



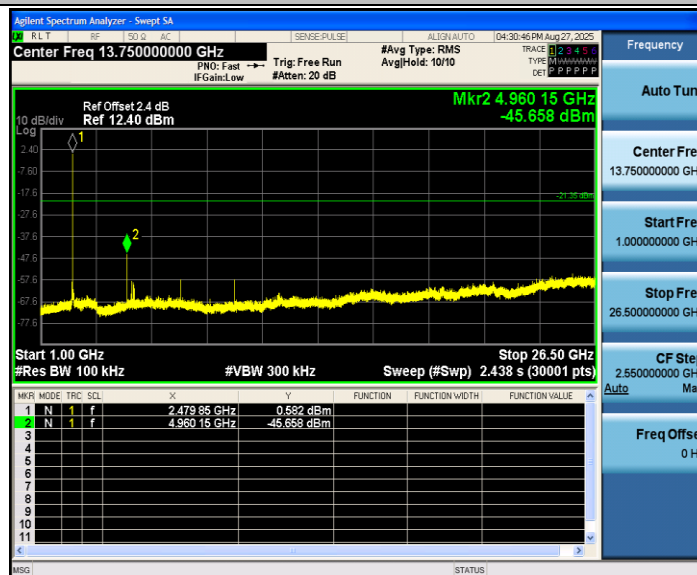
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



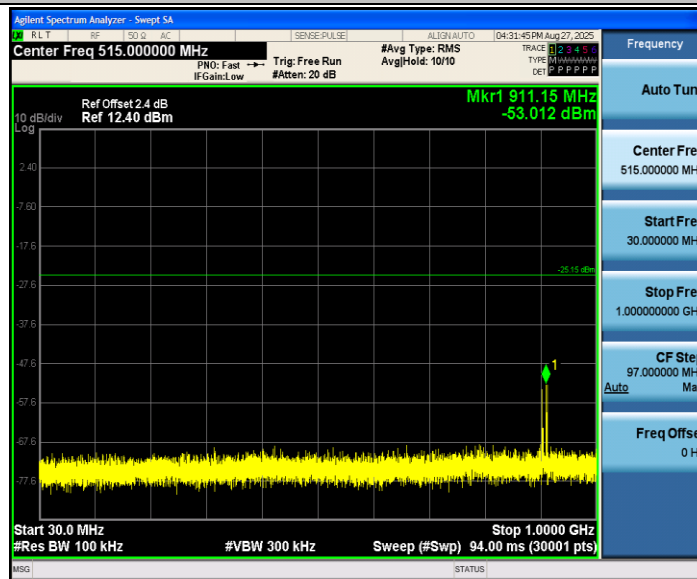
DH5_Ant1_2480_1000~26500



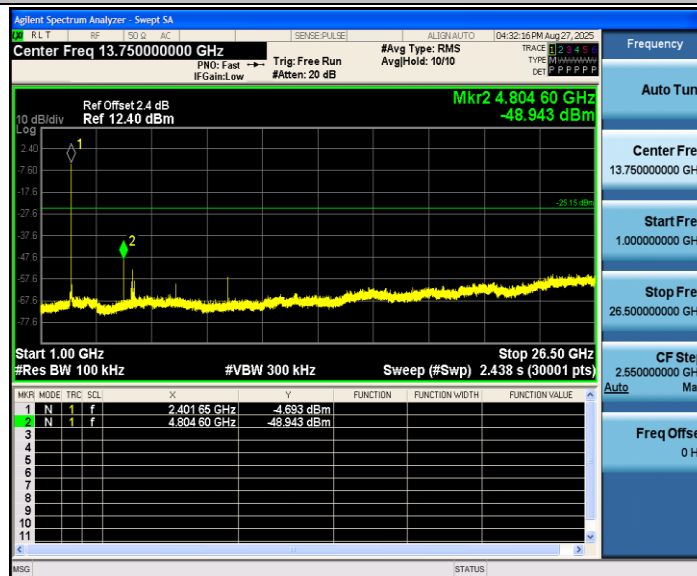
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



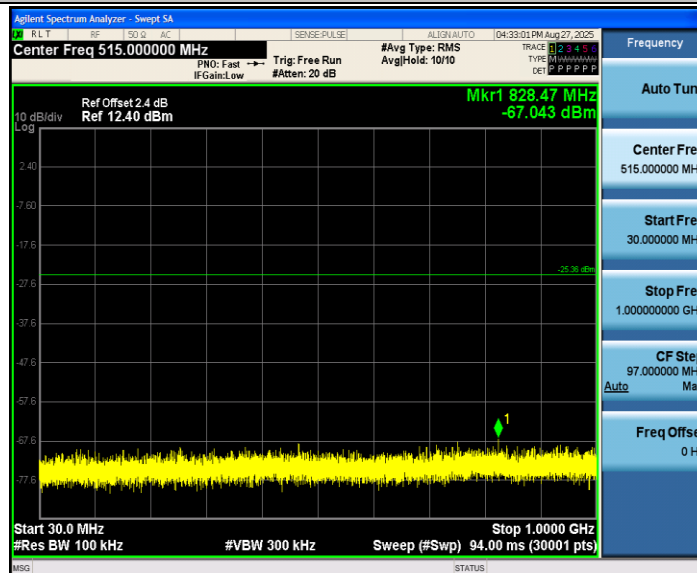
2DH5_Ant1_2402_1000~26500



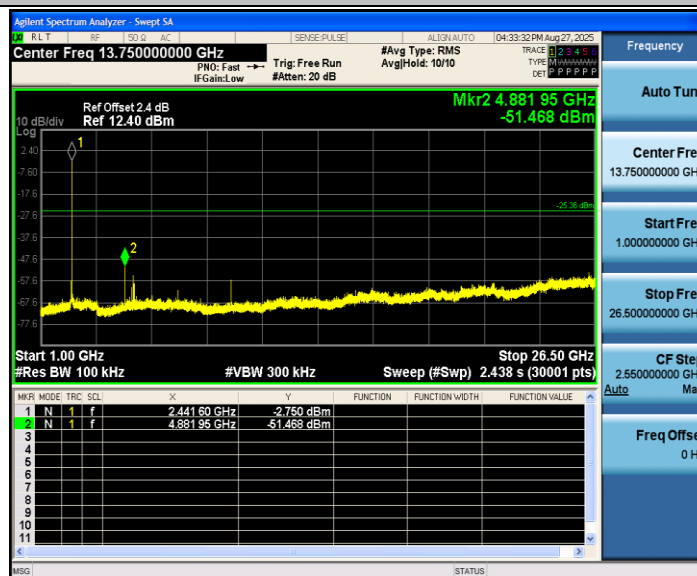
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



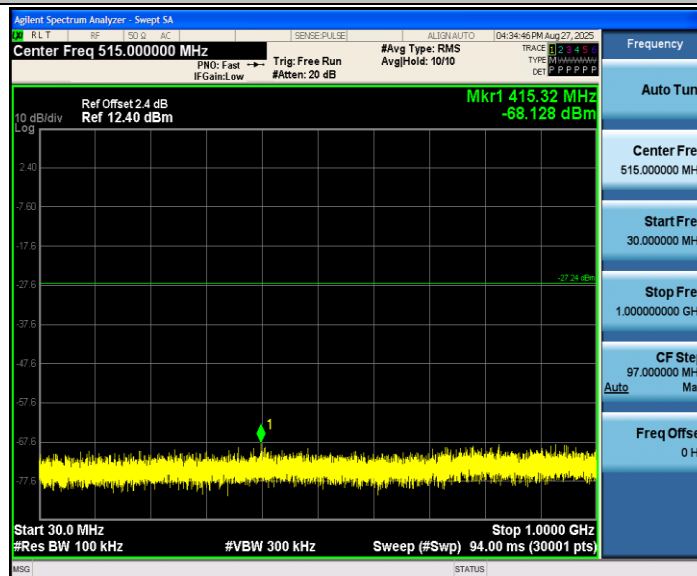
2DH5_Ant1_2441_1000~26500



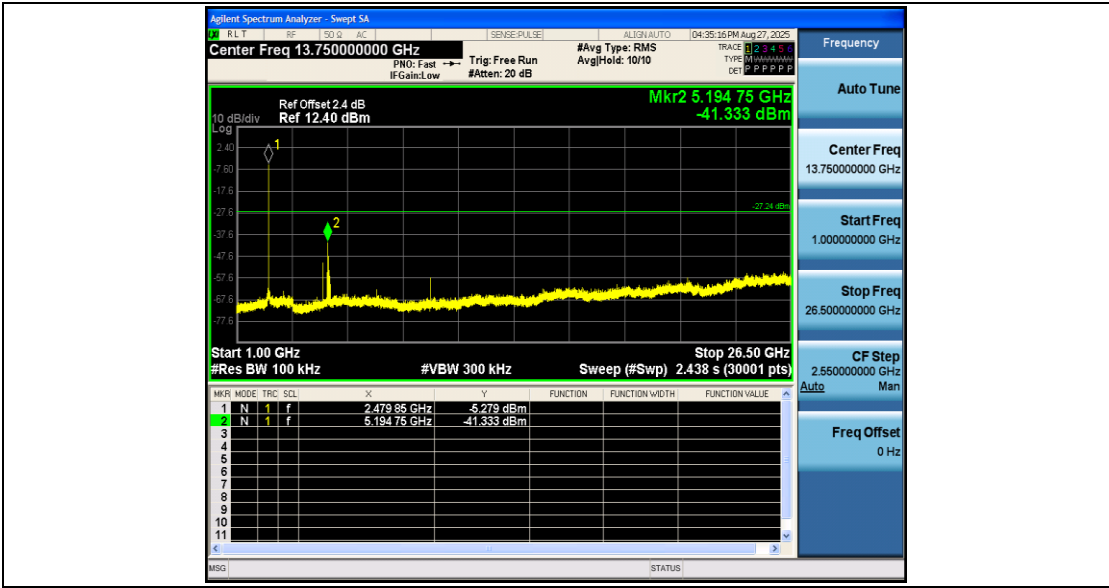
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

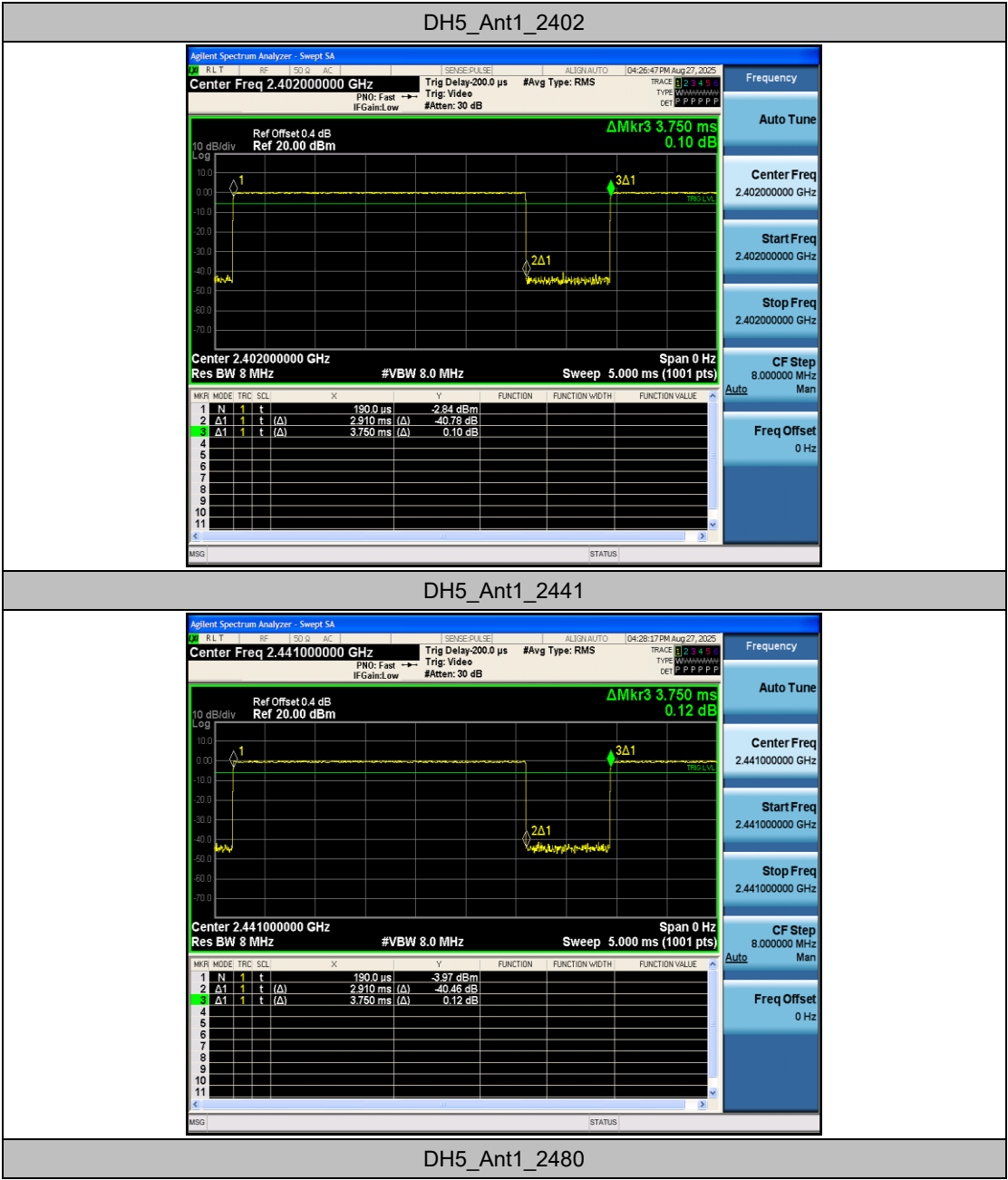


Appendix I: Duty Cycle

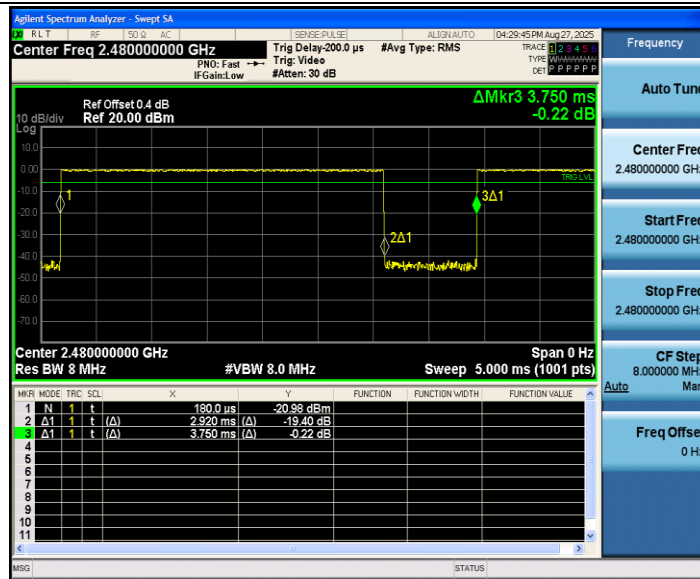
Test Result

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	2.92	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	2.91	3.75	77.60	1.10	---	---

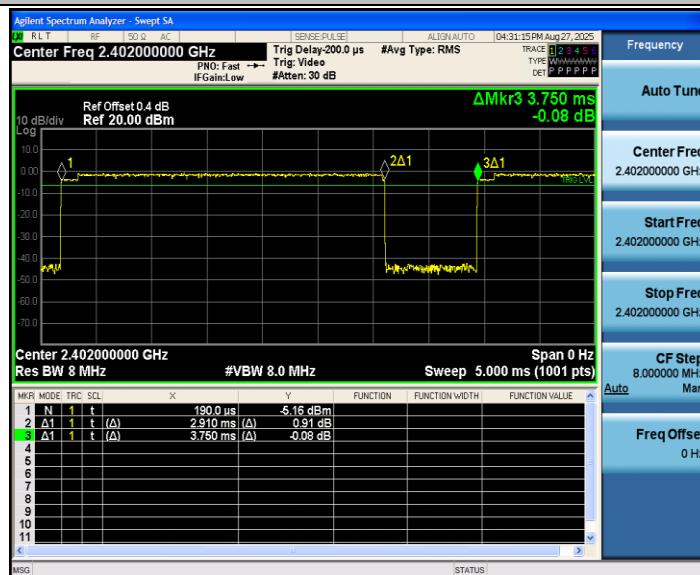
Test Graphs



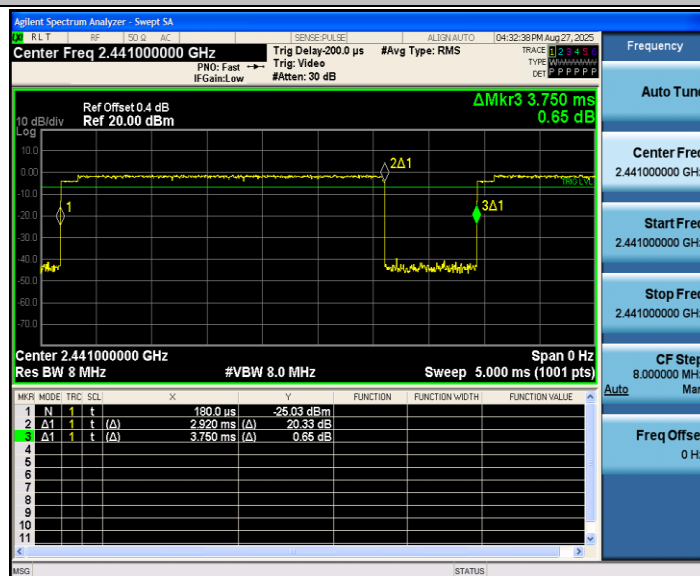
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

