

FCC Appendix RF Test Data

FCC ID : 2BF3S-FS-L1216M

Company: : Dongguan Faraoou Electric Appliance Co., Ltd

EUT : Portable Wireless Speaker System

Model Number : FS-L1216M

Report No. : CTA25042400801

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	0.939	2401.553	2402.492	---	---
		2441	0.948	2440.550	2441.498	---	---
		2480	0.954	2479.544	2480.498	---	---
2DH5	Ant1	2402	1.287	2401.379	2402.666	---	---
		2441	1.281	2440.382	2441.663	---	---
		2480	1.281	2479.379	2480.660	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

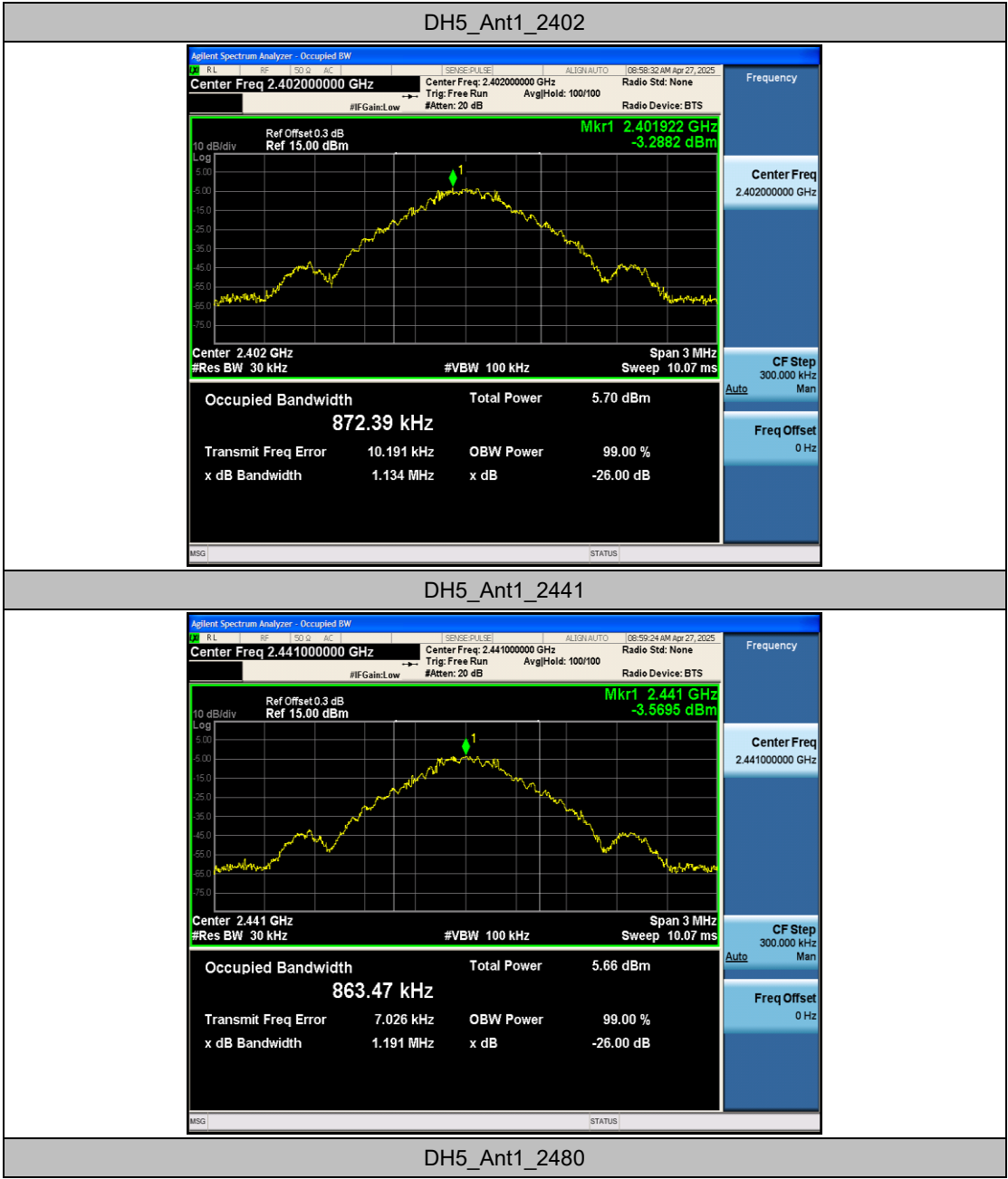


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87239	2401.5740	2402.4464	---	---
		2441	0.86347	2440.5753	2441.4388	---	---
		2480	0.86960	2479.5715	2480.4411	---	---
2DH5	Ant1	2402	1.1858	2401.4177	2402.6035	---	---
		2441	1.1863	2440.4176	2441.6039	---	---
		2480	1.1891	2479.4170	2480.6061	---	---

Test Graphs

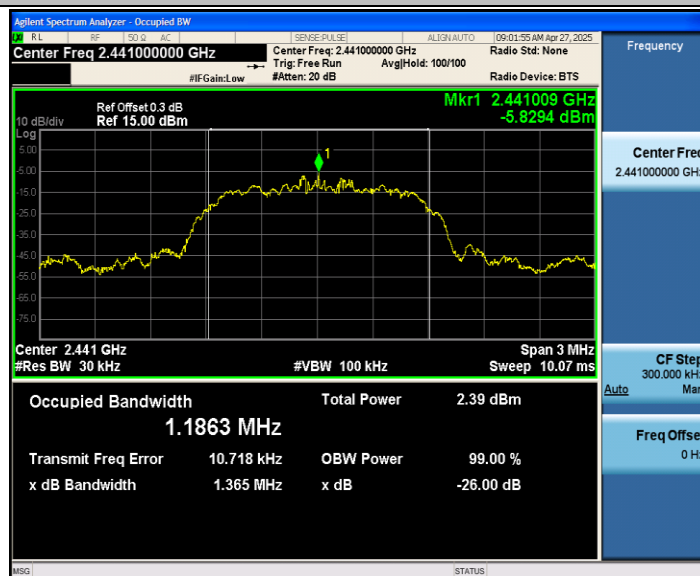




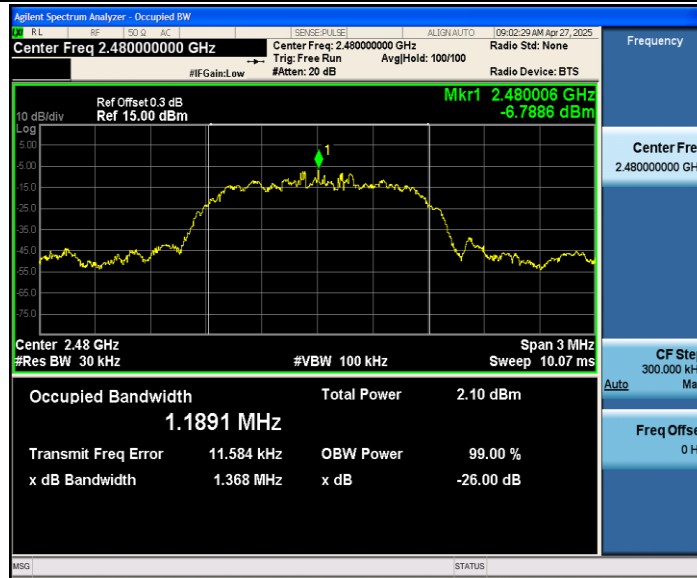
2DH5_Ant1_2402



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	-0.10	≤20.97	PASS
		2441	-0.37	≤20.97	PASS
		2480	-0.45	≤20.97	PASS
2DH5	Ant1	2402	-0.95	≤20.97	PASS
		2441	-1.18	≤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	1.156	≥ 0.954	PASS
2DH5	Ant1	Hop	1.144	≥ 0.858	PASS

Test Graphs

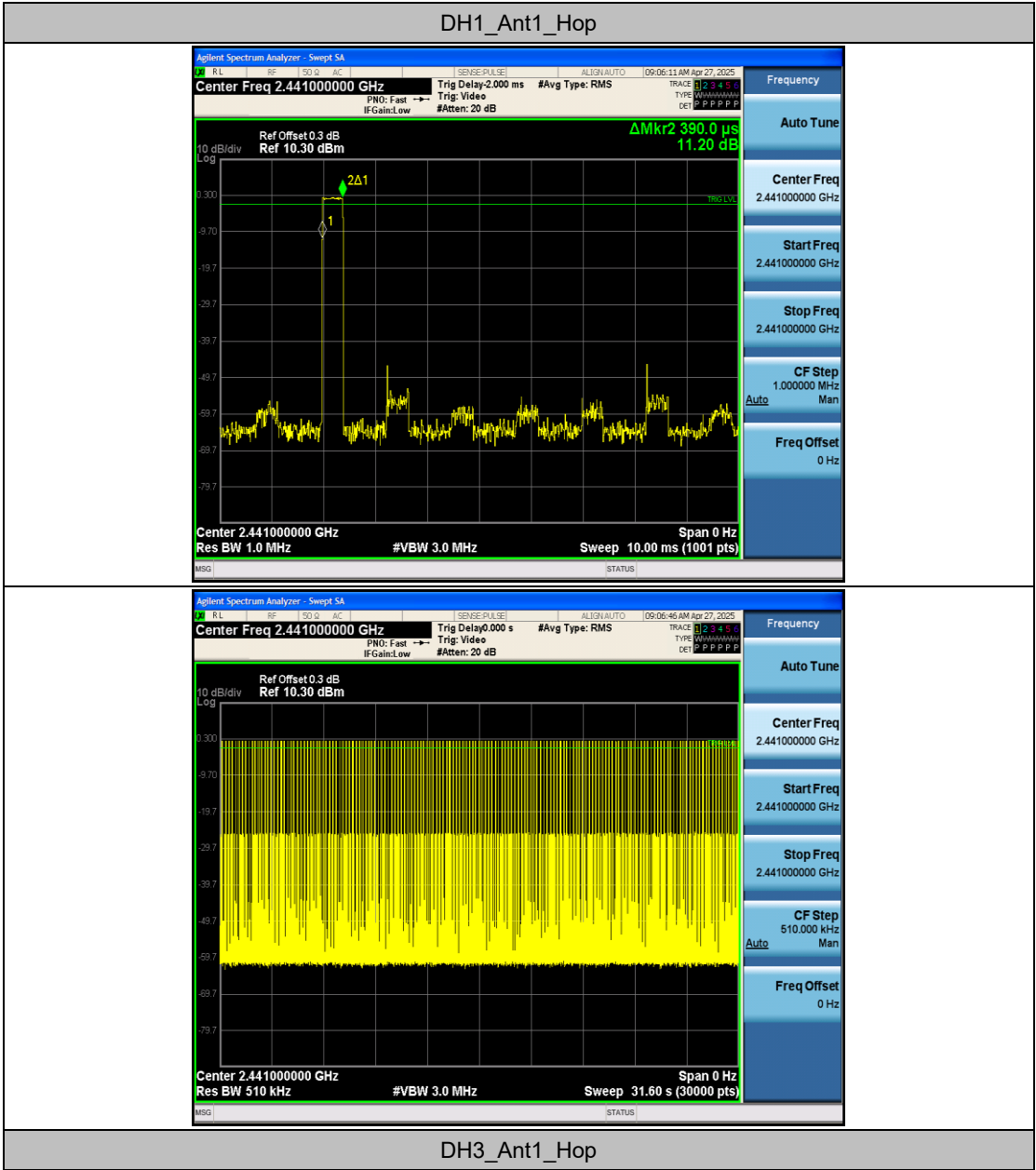


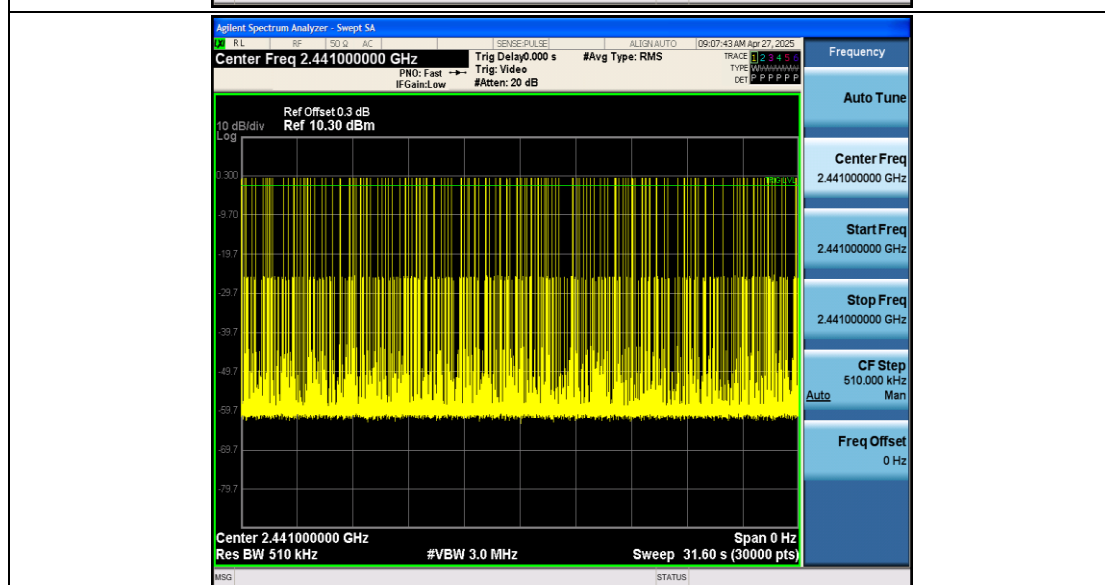
Appendix E: Time of occupancy

Test Result

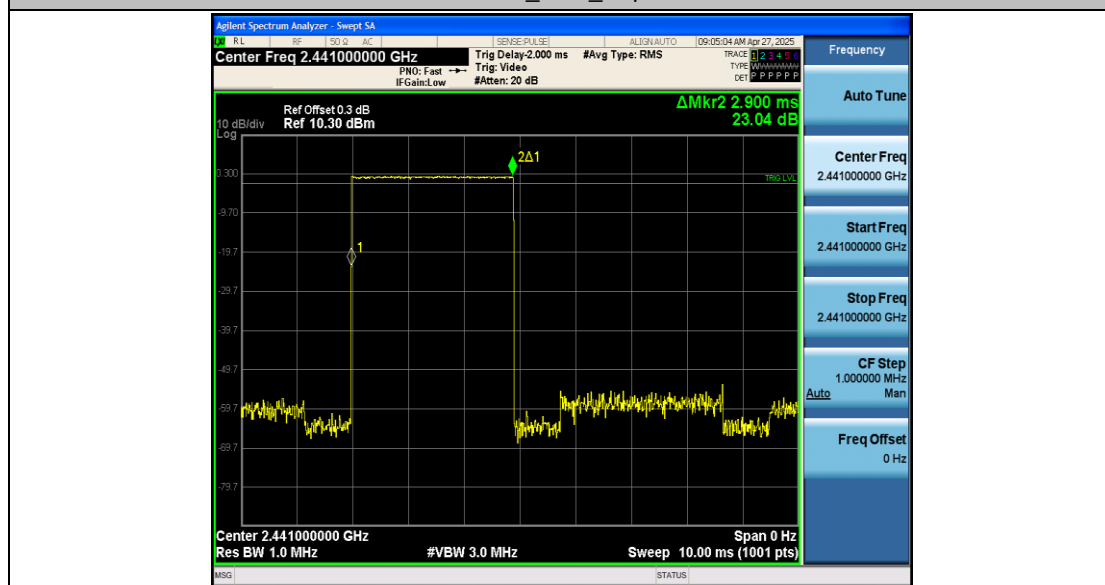
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	316	0.123	≤0.4	PASS
DH3	Ant1	Hop	1.640	158	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.900	112	0.325	≤0.4	PASS
2DH1	Ant1	Hop	0.400	313	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.650	150	0.248	≤0.4	PASS
2DH5	Ant1	Hop	2.900	106	0.307	≤0.4	PASS

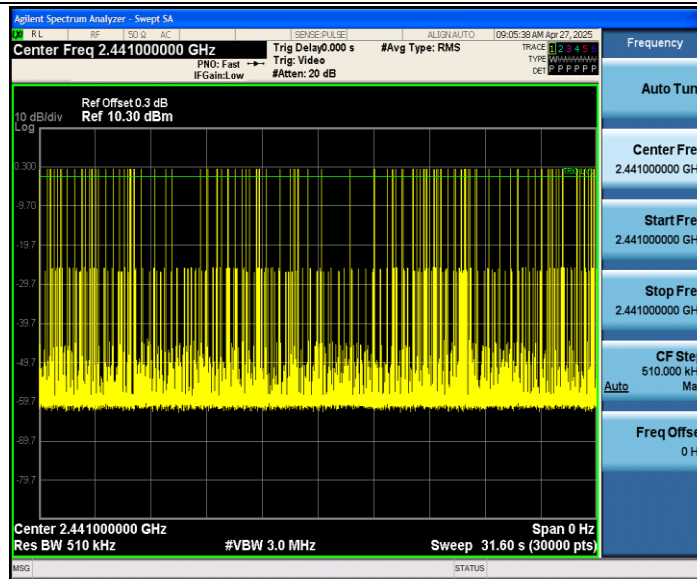
Test Graphs



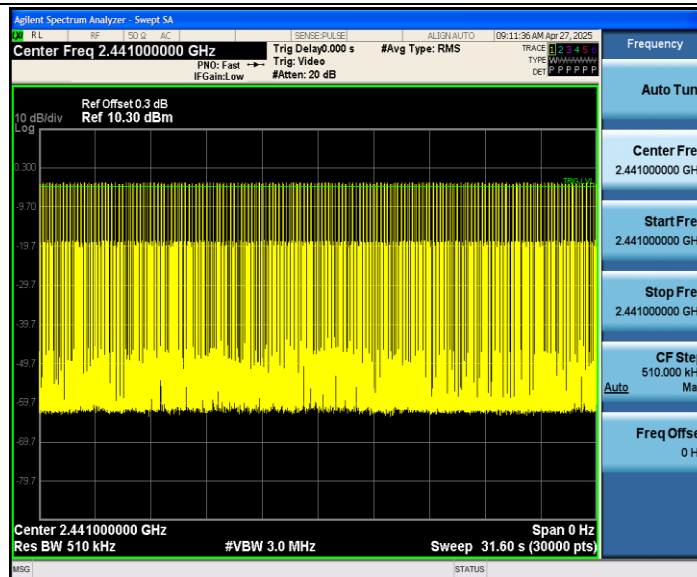
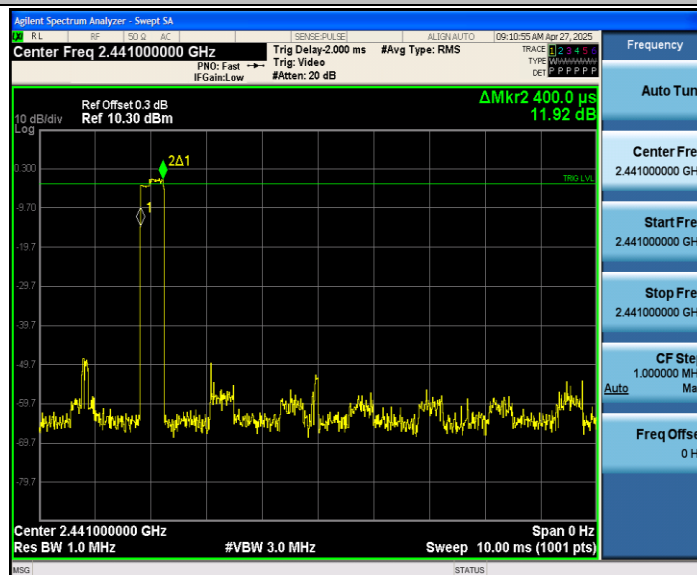


DH5_Ant1_Hop

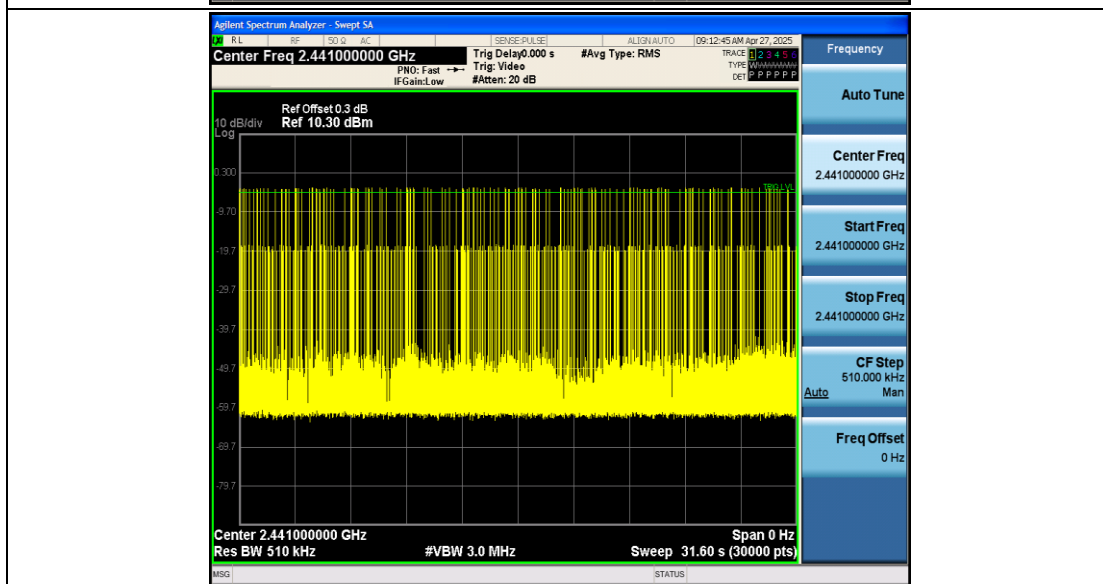




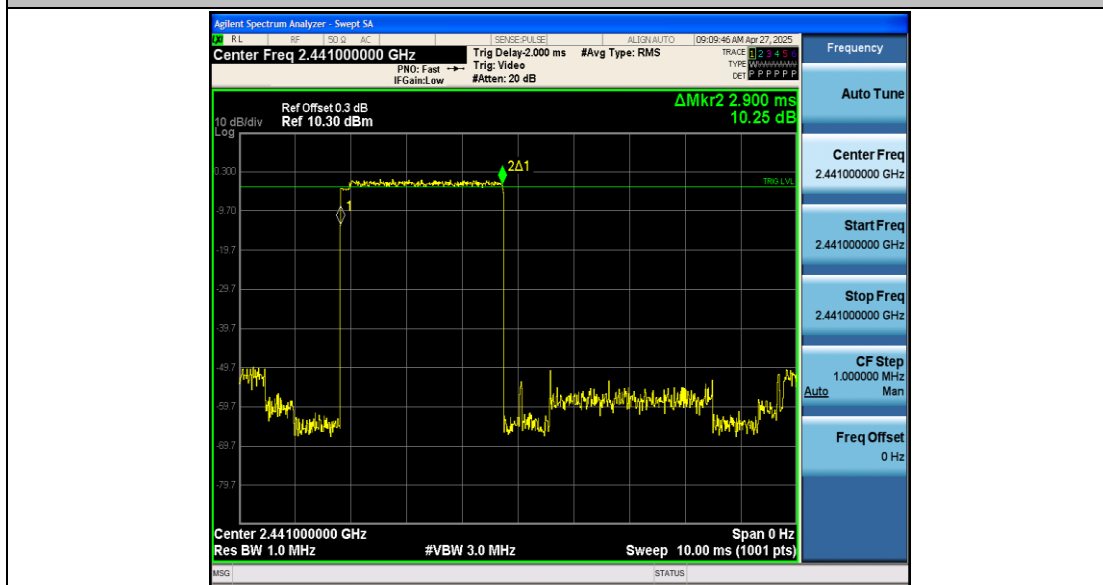
2DH1_Ant1_Hop

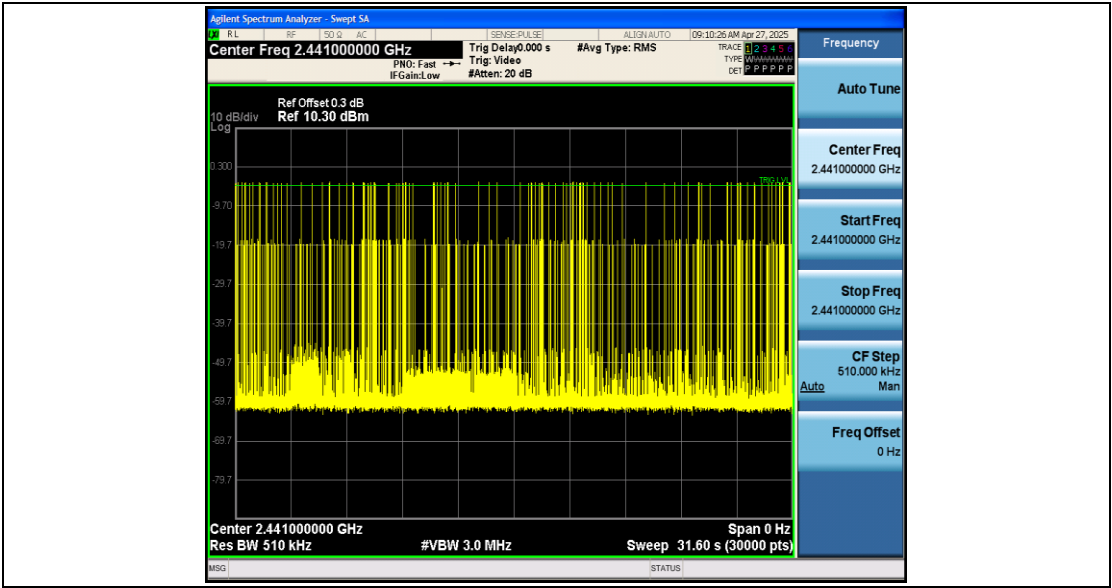


2DH3_Ant1_Hop



2DH5_Ant1_Hop



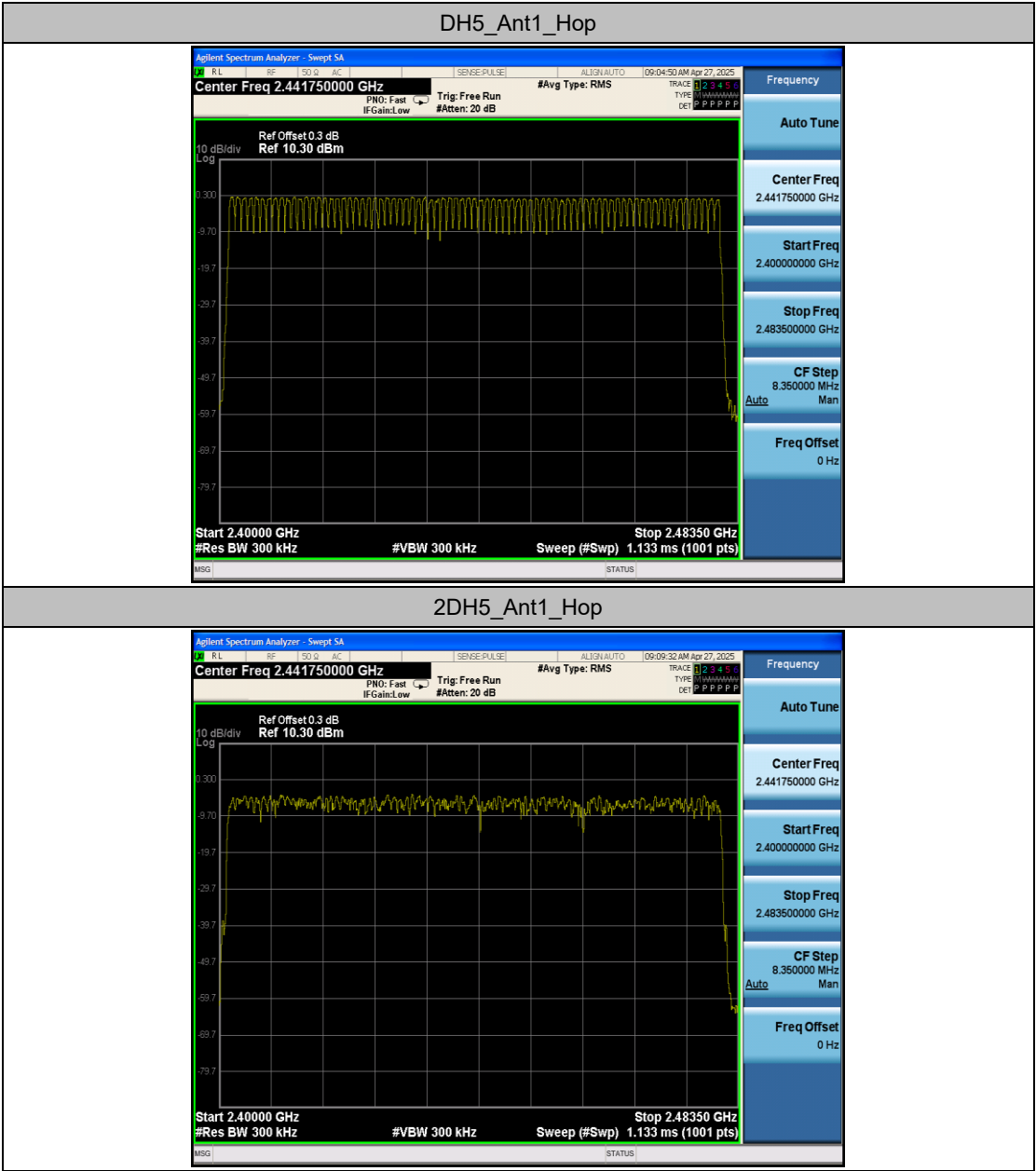


Appendix F: Number of hopping channels

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

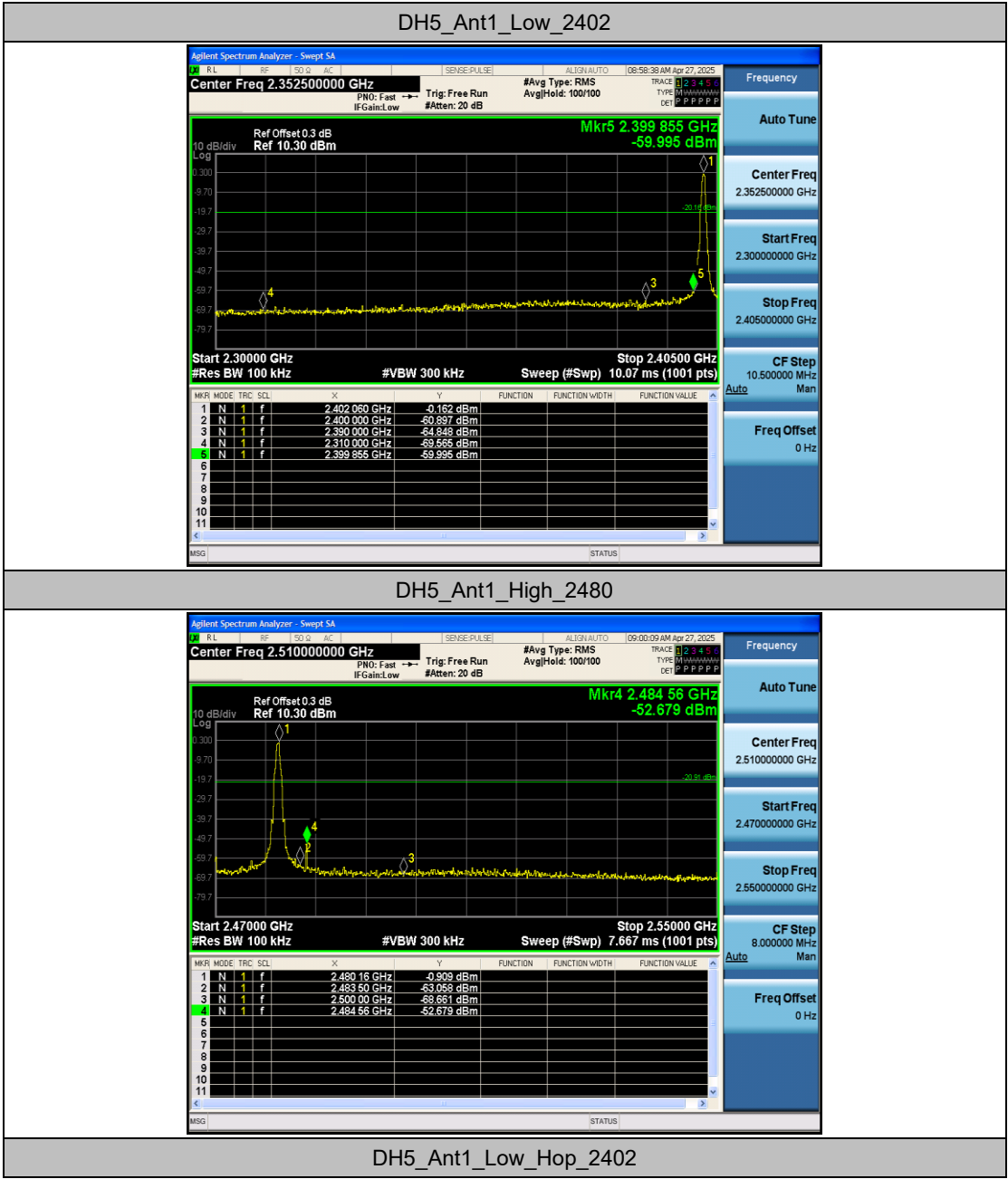


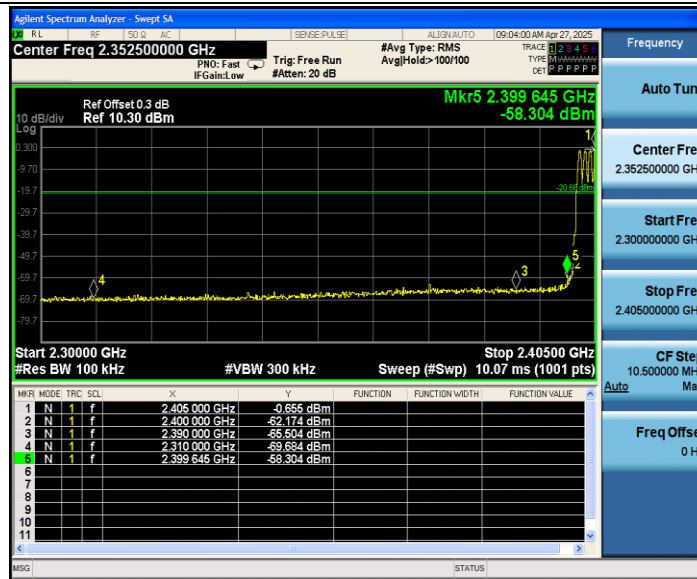
Appendix G: Band edge measurements

Test Result

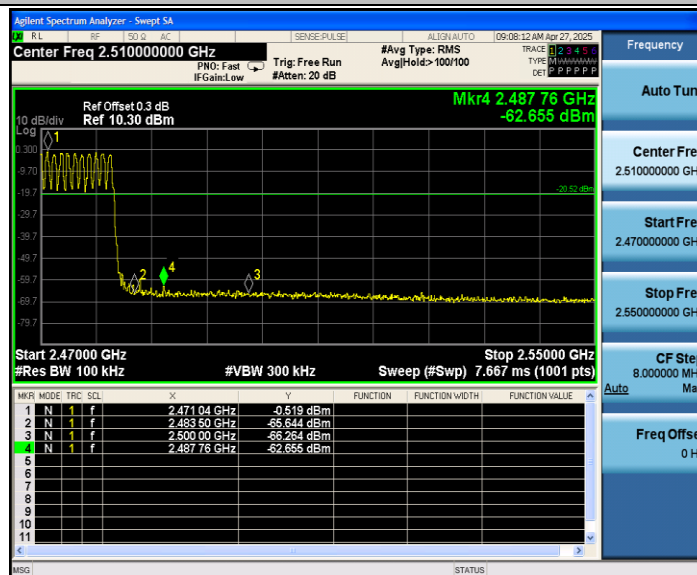
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.16	-60	≤ -20.16	PASS
		High	2480	-0.91	-52.68	≤ -20.91	PASS
		Low	Hop_2402	-0.66	-58.3	≤ -20.66	PASS
		High	Hop_2480	-0.52	-62.66	≤ -20.52	PASS
2DH5	Ant1	Low	2402	-4.43	-60.1	≤ -24.43	PASS
		High	2480	-4.74	-59.82	≤ -24.74	PASS
		Low	Hop_2402	-4.53	-56.6	≤ -24.53	PASS
		High	Hop_2480	-4.99	-63.28	≤ -24.99	PASS

Test Graphs

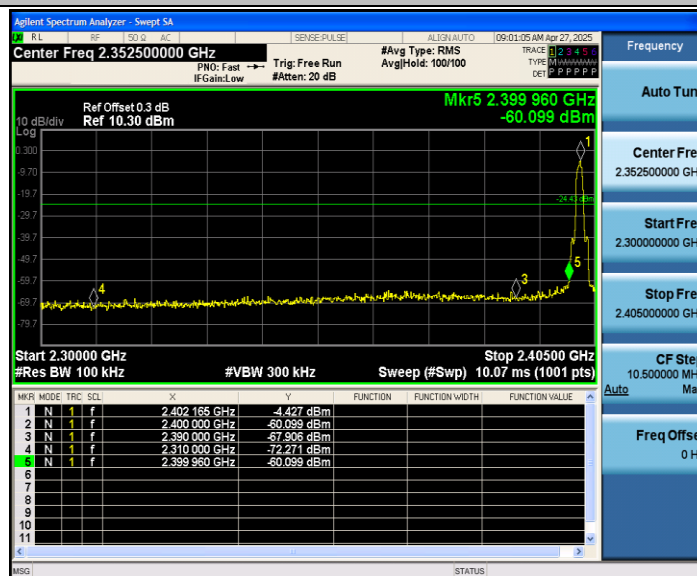




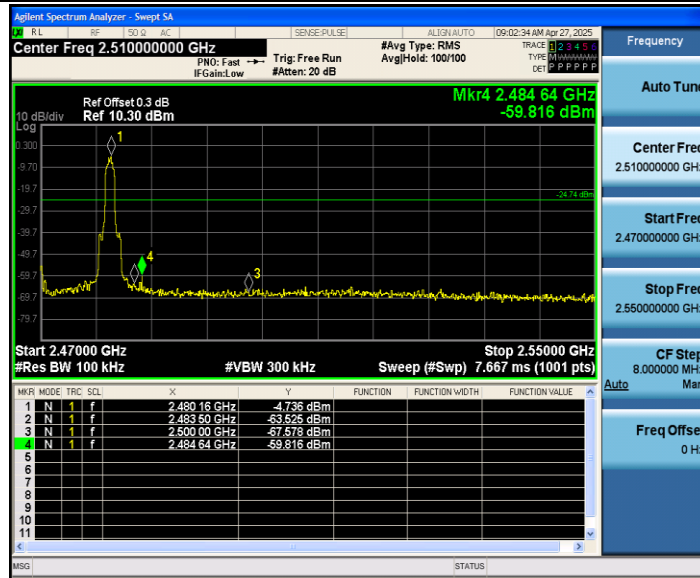
DH5_Ant1_High_Hop_2480



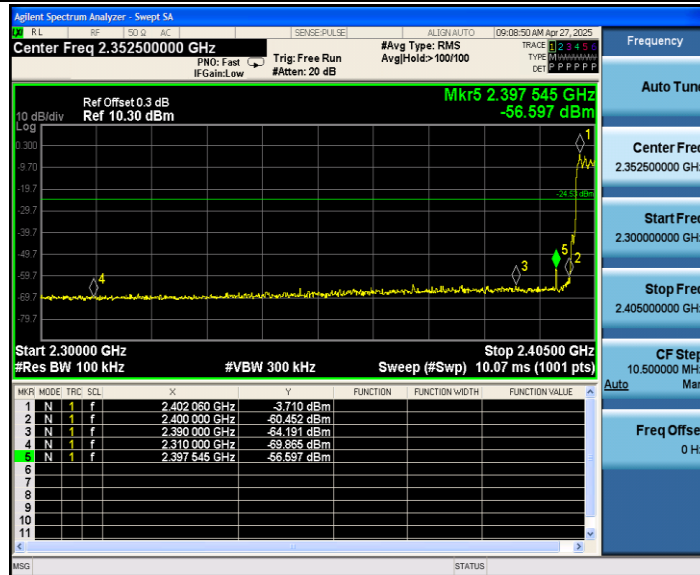
2DH5_Ant1_Low_2402



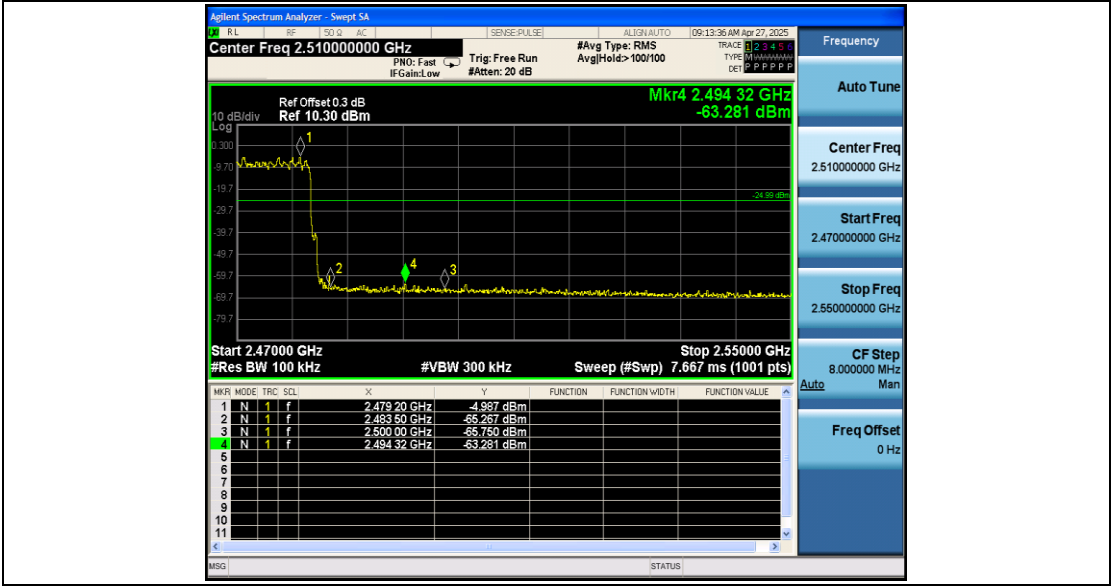
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

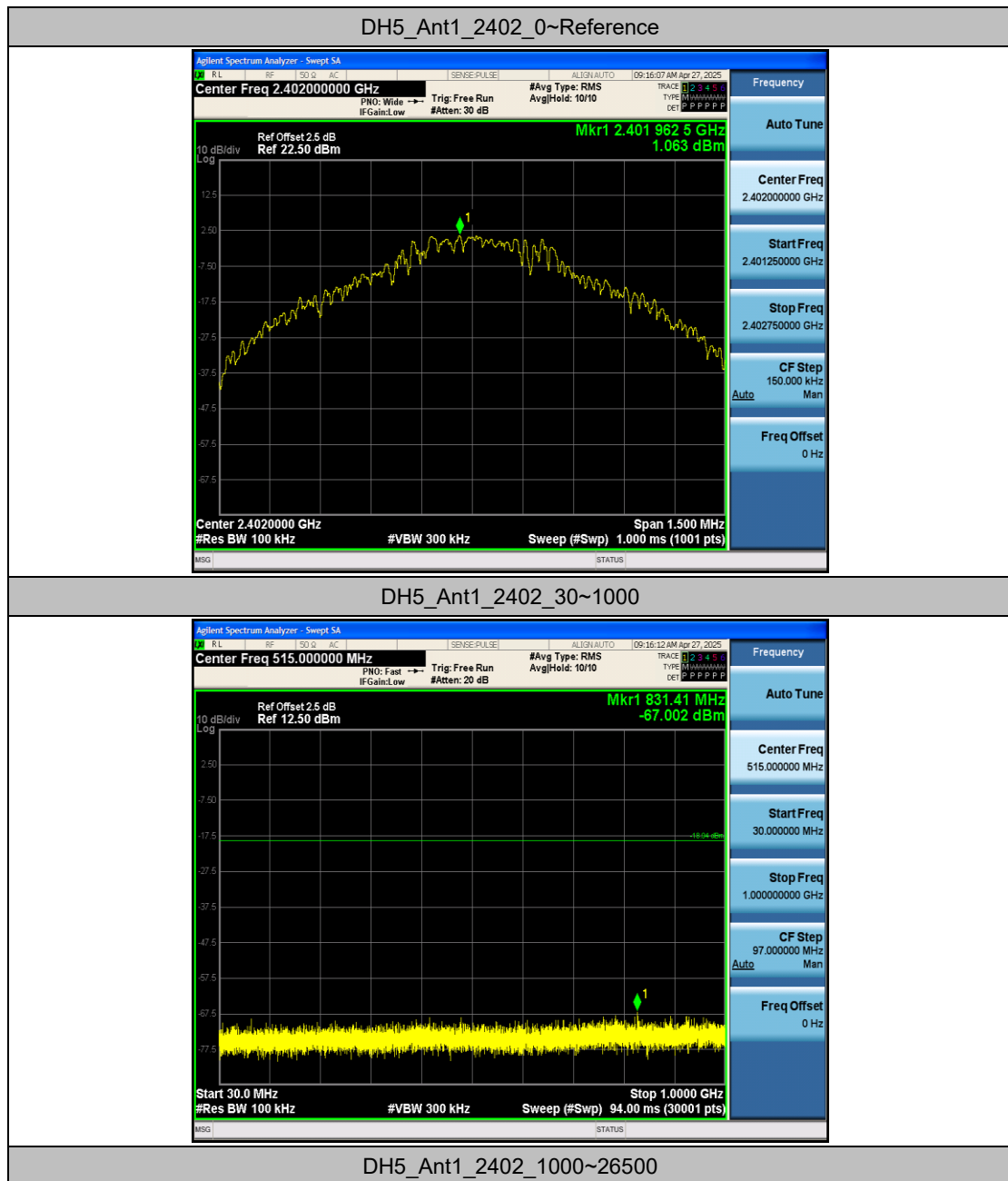


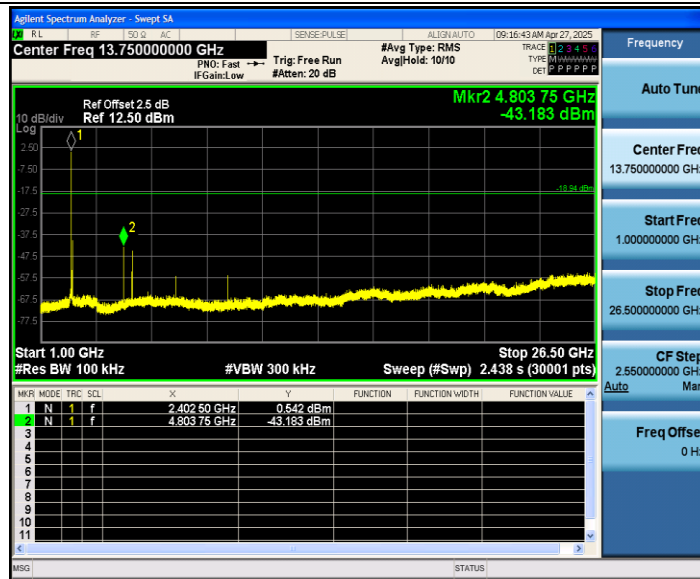
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-67	≤-18.94	PASS
			1000~26500	1.06	-43.18	≤-18.94	PASS
		2441	Reference	1.28	1.28	---	PASS
			30~1000	1.28	-67.63	≤-18.72	PASS
			1000~26500	1.28	-43.9	≤-18.72	PASS
		2480	Reference	0.89	0.89	---	PASS
			30~1000	0.89	-66.73	≤-19.11	PASS
			1000~26500	0.89	-44.46	≤-19.11	PASS
2DH5	Ant1	2402	Reference	-3.15	-3.15	---	PASS
			30~1000	-3.15	-67.81	≤-23.15	PASS
			1000~26500	-3.15	-47.07	≤-23.15	PASS
		2441	Reference	-2.11	-2.11	---	PASS
			30~1000	-2.11	-67.61	≤-22.11	PASS
			1000~26500	-2.11	-49.58	≤-22.11	PASS
		2480	Reference	-3.37	-3.37	---	PASS
			30~1000	-3.37	-68.12	≤-23.37	PASS
			1000~26500	-3.37	-44.08	≤-23.37	PASS

Test Graphs

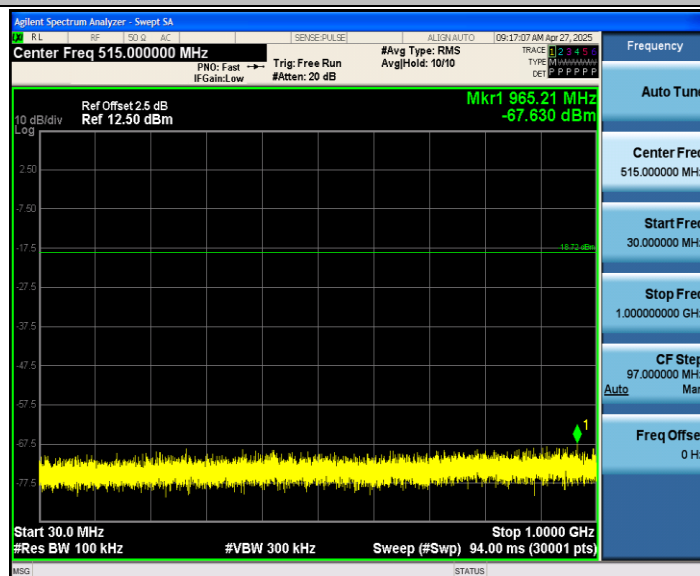




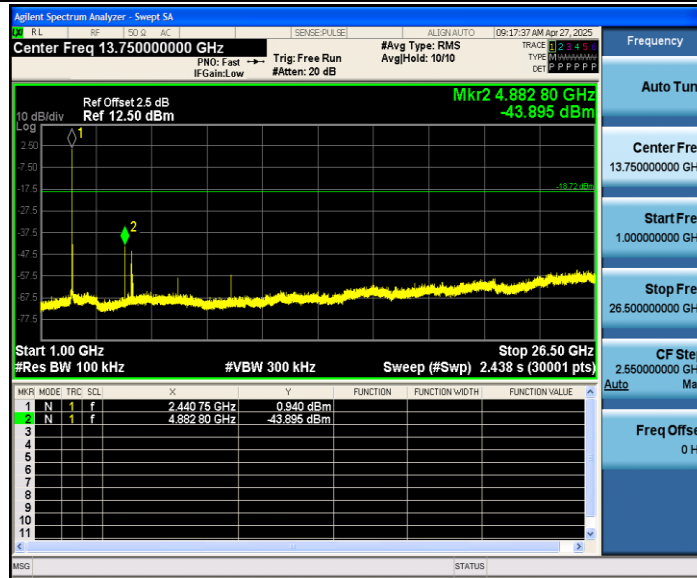
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



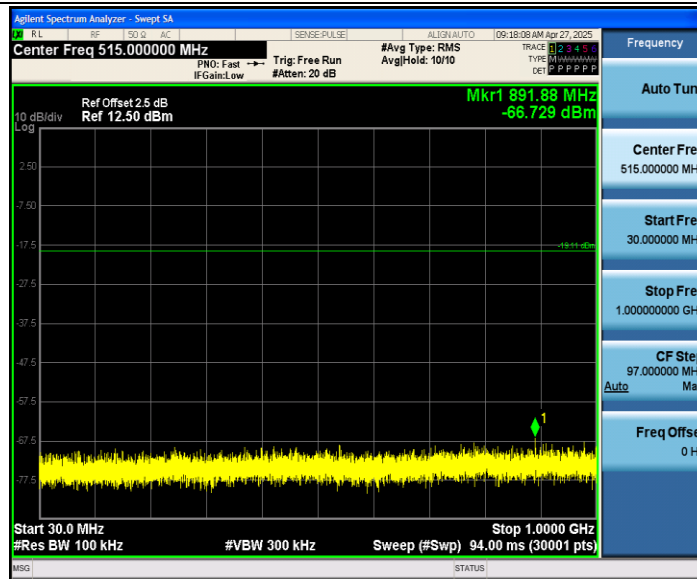
DH5_Ant1_2441_1000~26500



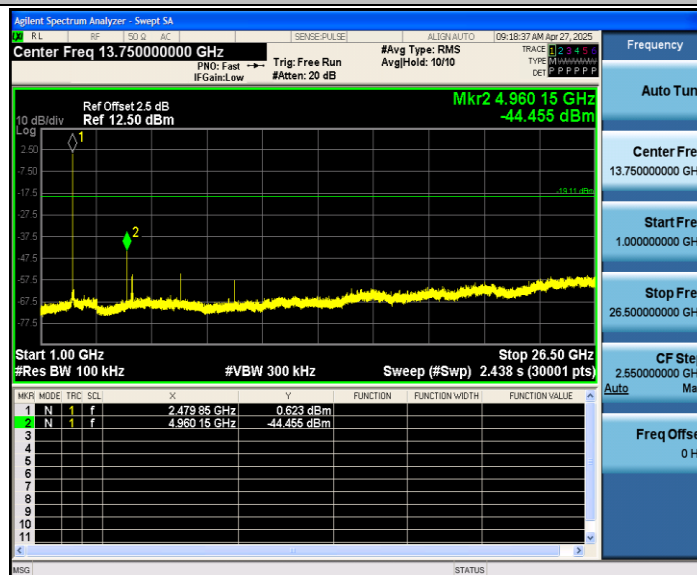
DH5_Ant1_2480_0~Reference



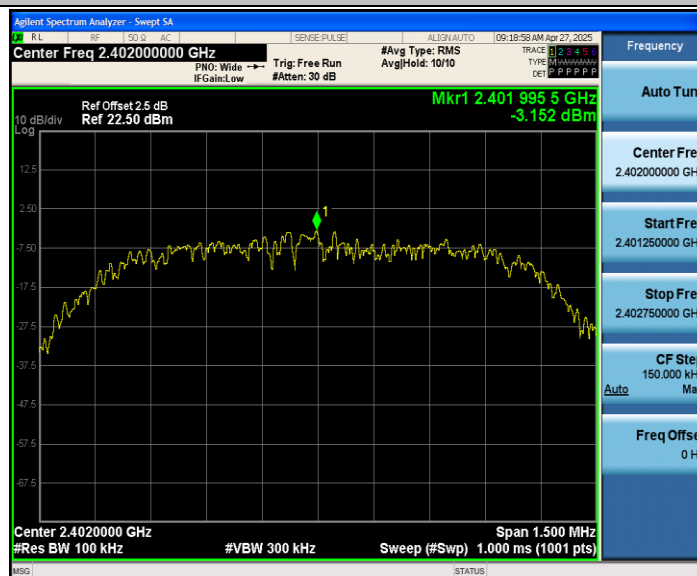
DH5_Ant1_2480_30~1000



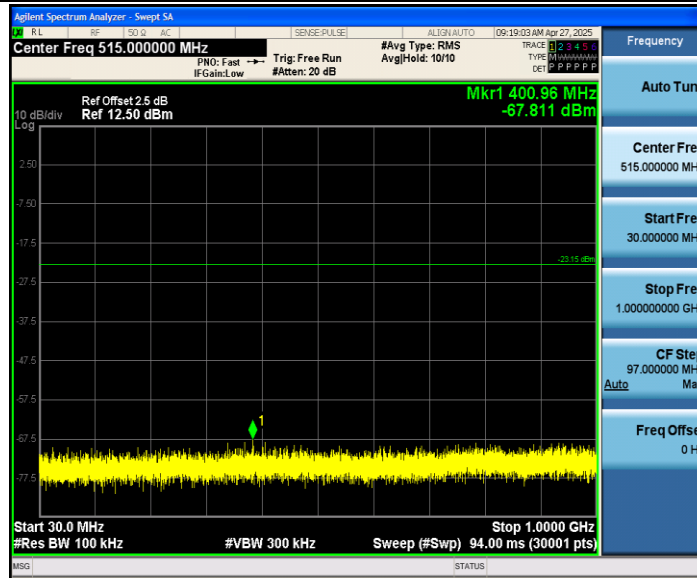
DH5_Ant1_2480_1000~26500



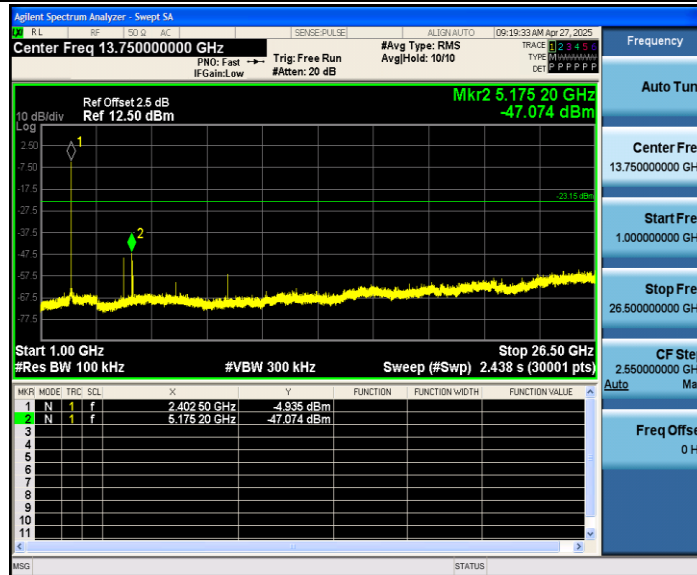
2DH5_Ant1_2402_0~Reference



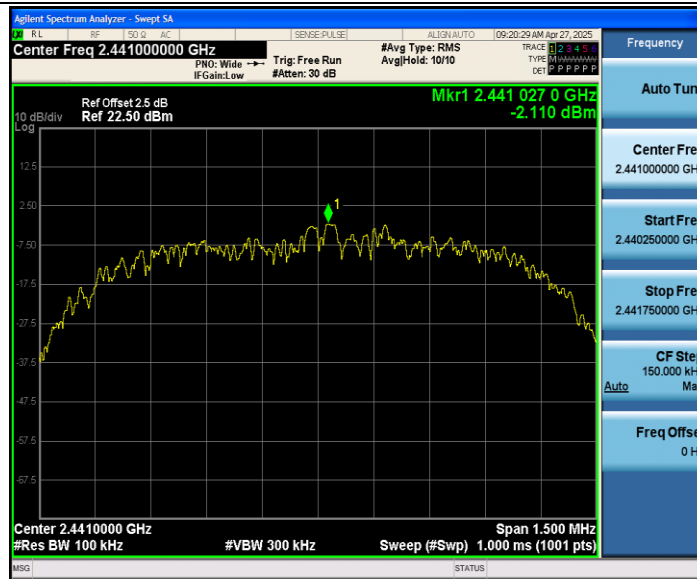
2DH5_Ant1_2402_30~1000



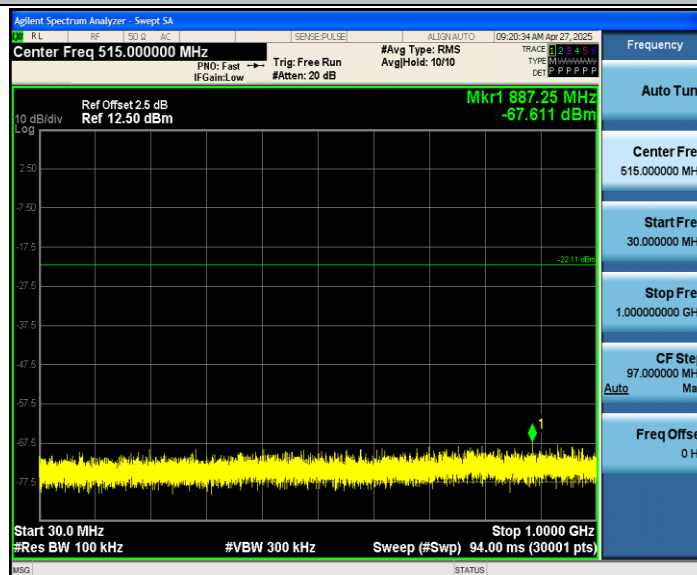
2DH5_Ant1_2402_1000~26500



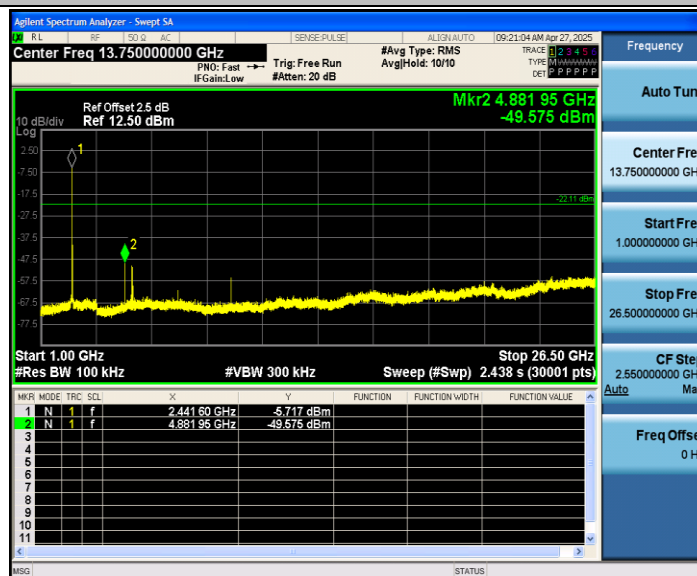
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



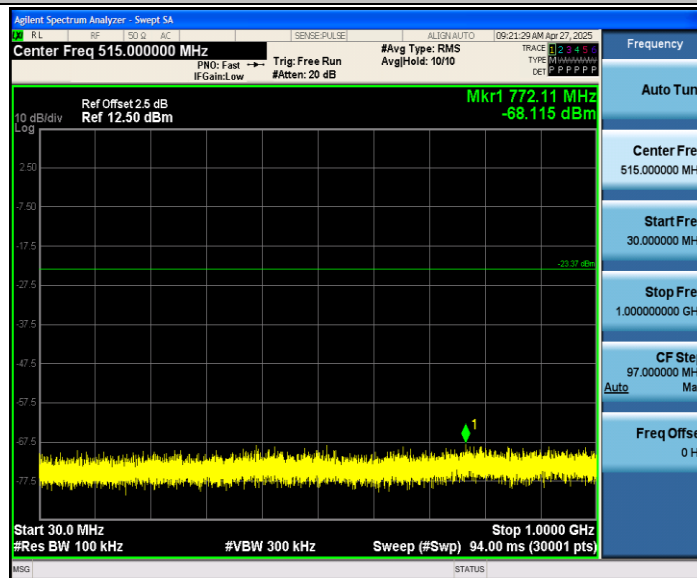
2DH5_Ant1_2441_1000~26500



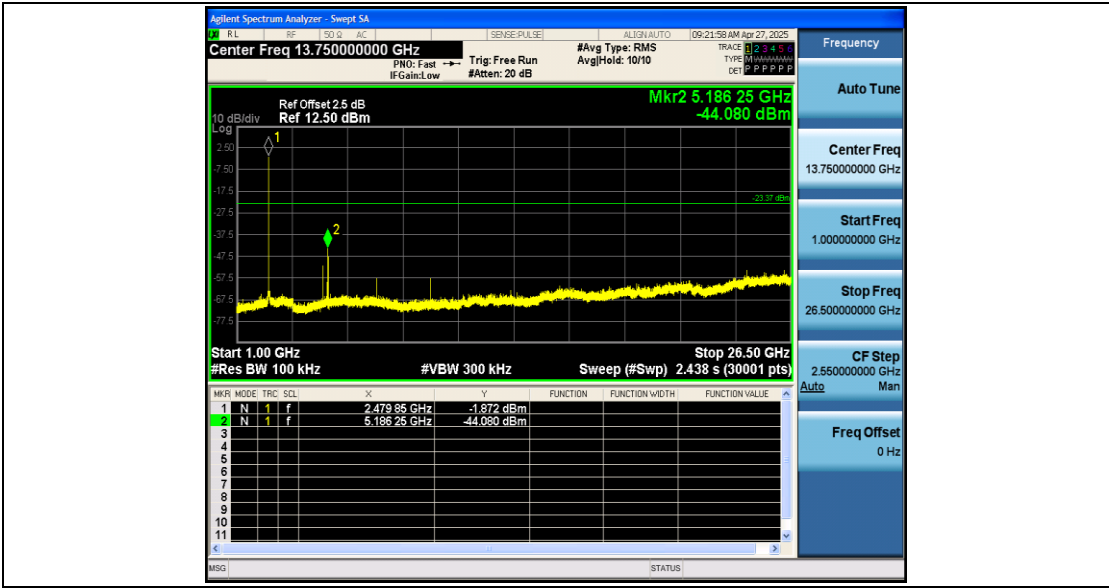
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

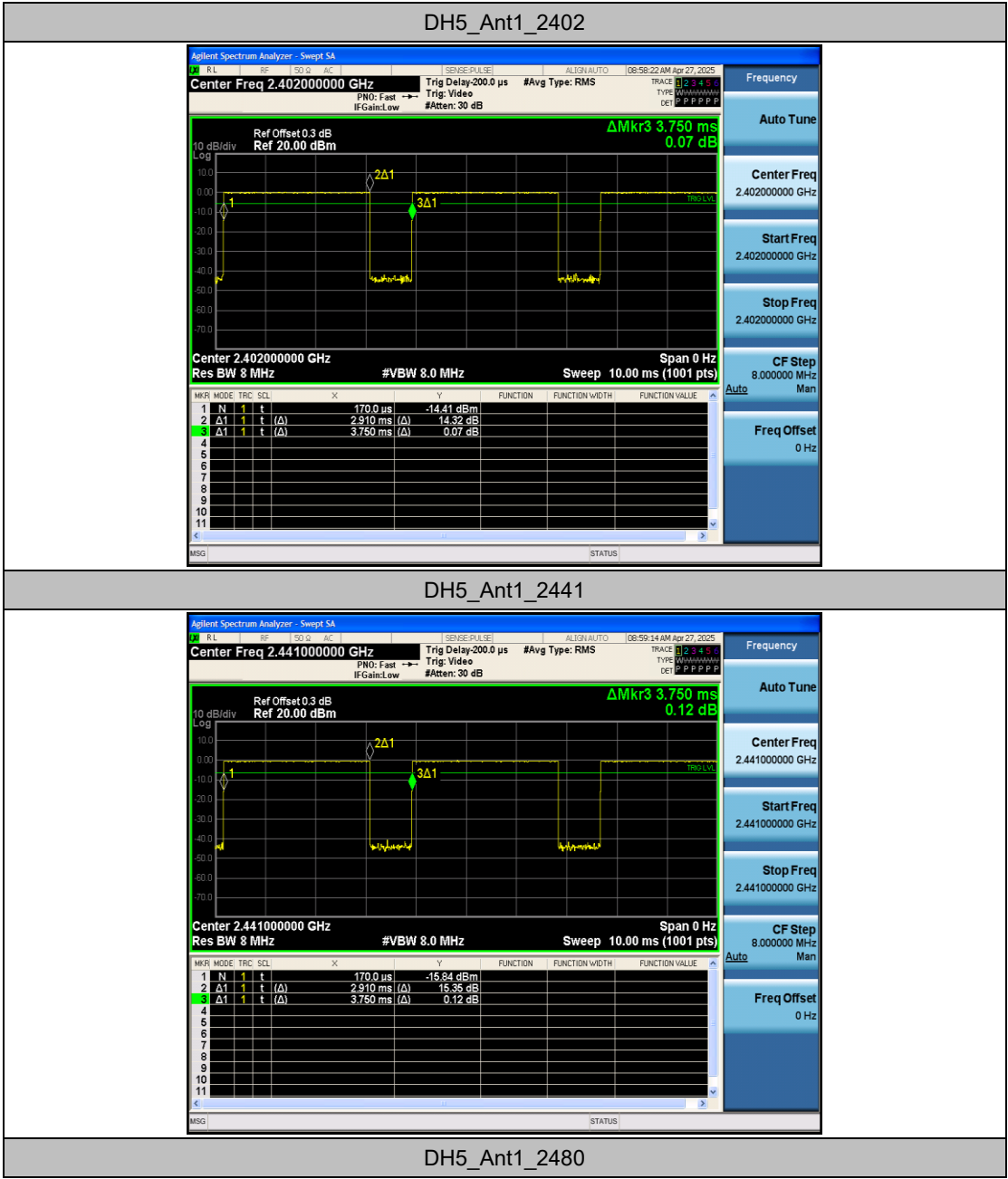


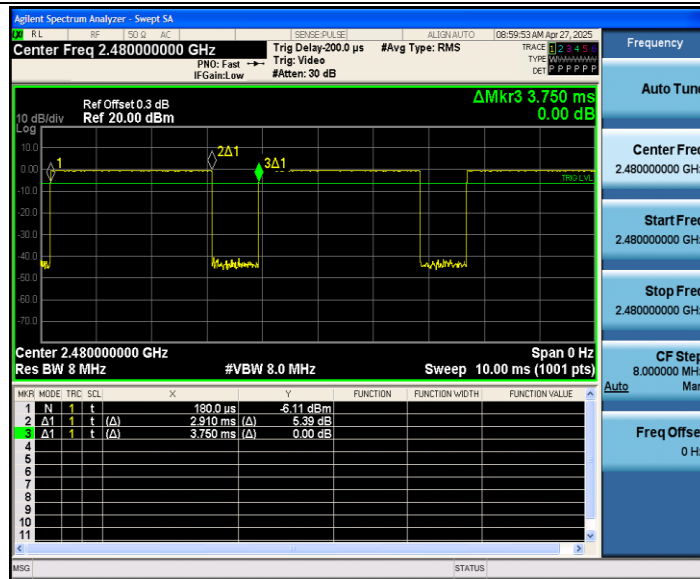
Appendix I: Duty Cycle

Test Result

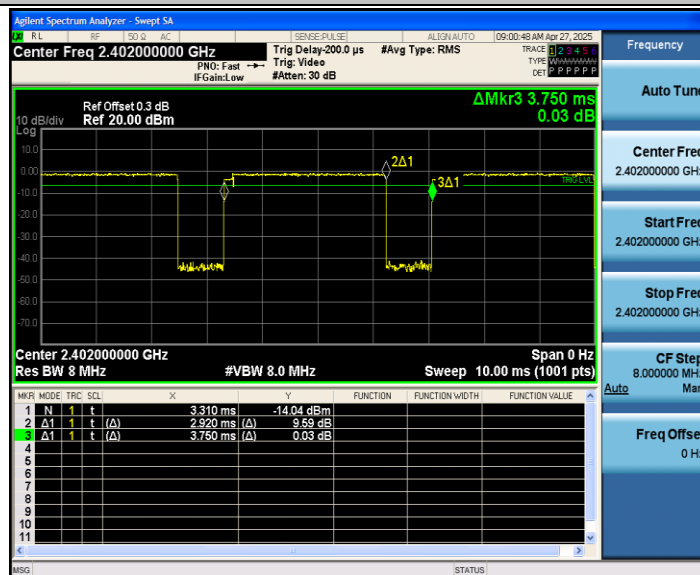
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09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

Test Graphs

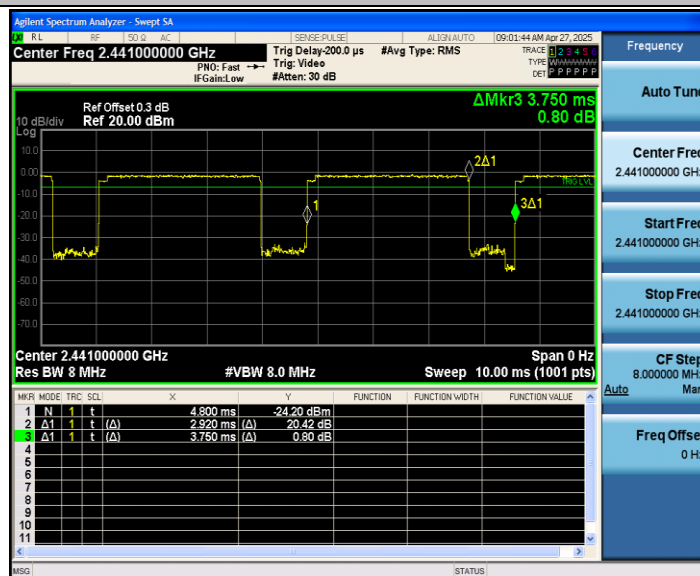




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

