

FCC Appendix RF Test Data

FCC ID : 2BMT5-U001

Company: : Shenzhen Chifeng Electronic Technology Co., Ltd.

EUT : Carplay

Model Number : U001

Report No. : CTA25041000501

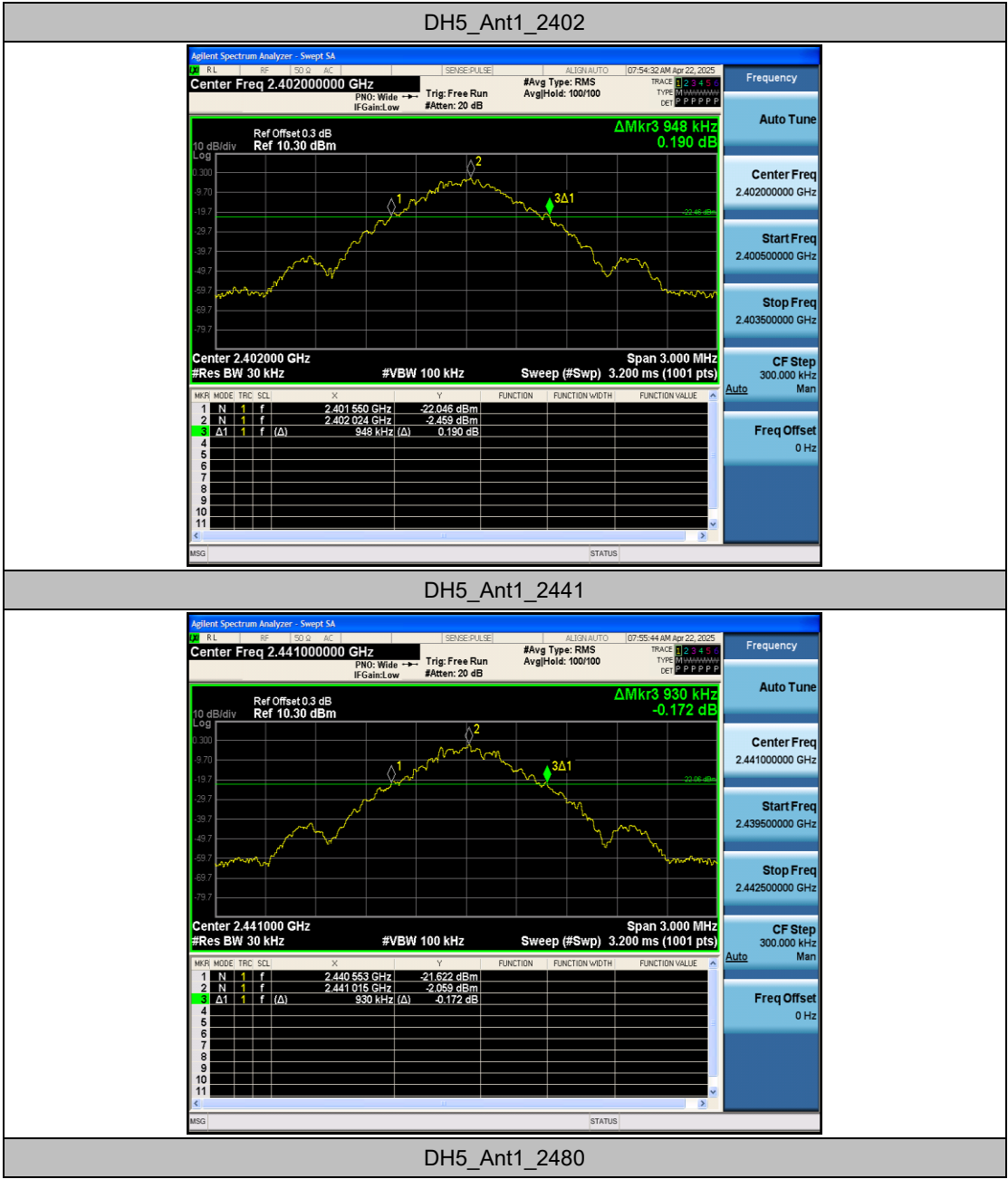
Reviewed By : Eric Wang

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	2401.550	2402.498	---	---
		2441	0.930	2440.553	2441.483	---	---
		2480	0.954	2479.547	2480.501	---	---
2DH5	Ant1	2402	1.326	2401.343	2402.669	---	---
		2441	1.281	2440.379	2441.660	---	---
		2480	1.284	2479.379	2480.663	---	---
3DH5	Ant1	2402	1.299	2401.364	2402.663	---	---
		2441	1.302	2440.361	2441.663	---	---
		2480	1.308	2479.364	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

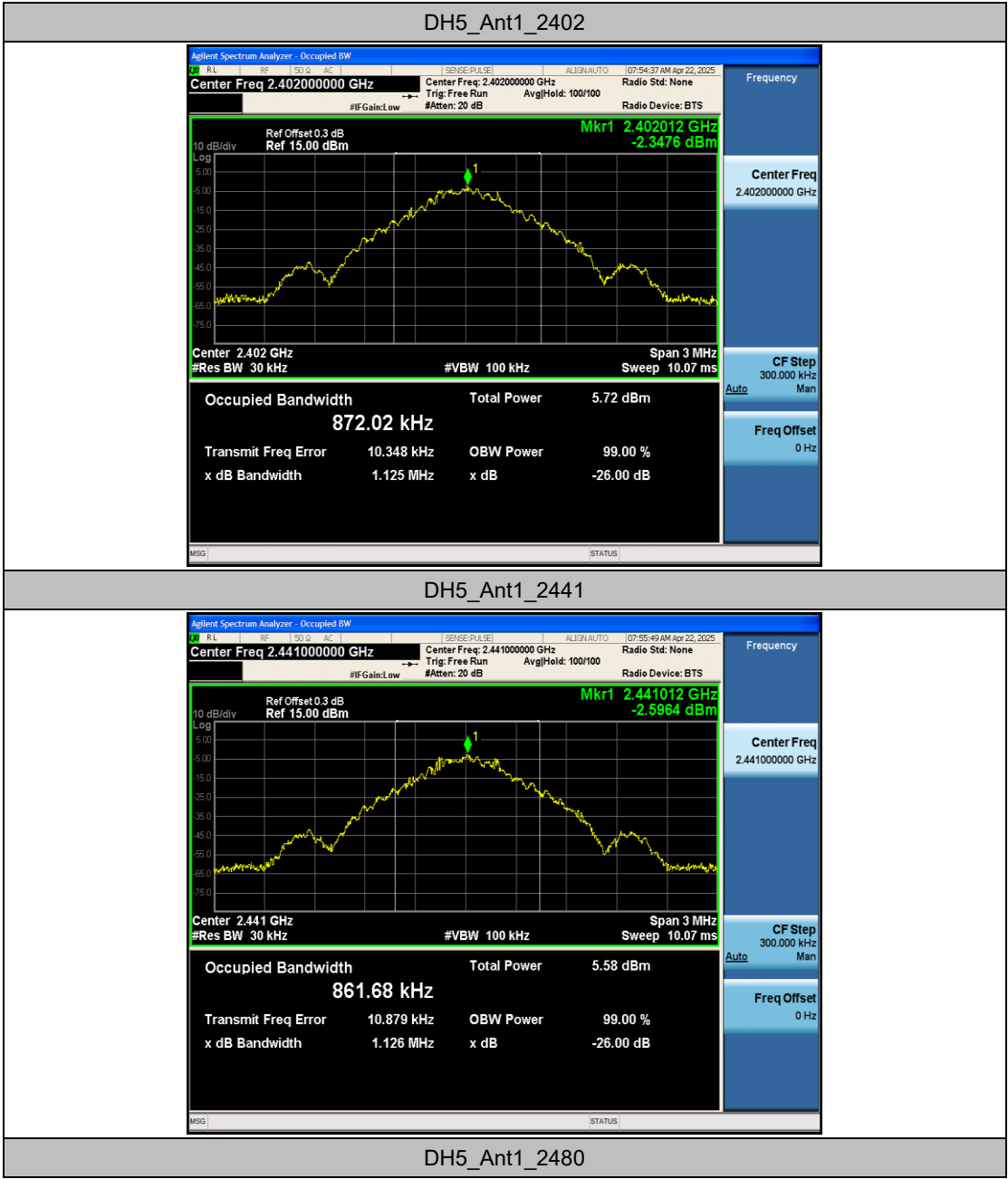


Appendix B: Occupied Channel Bandwidth

Test Result

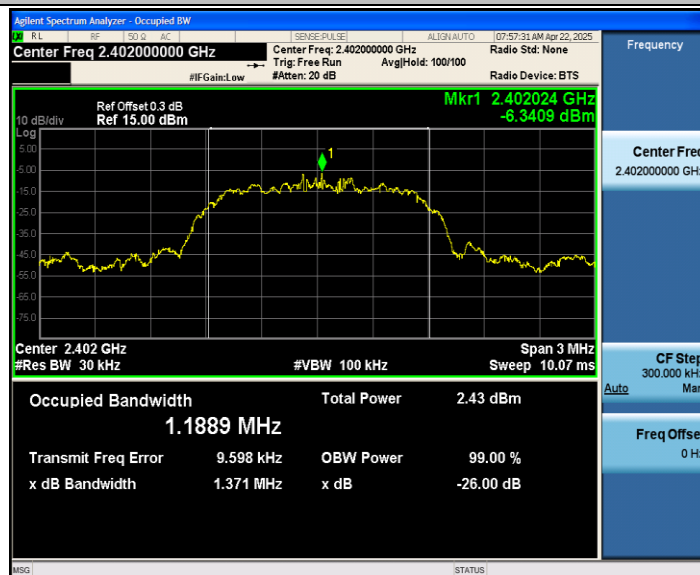
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87202	2401.5743	2402.4464	---	---
		2441	0.86168	2440.5800	2441.4417	---	---
		2480	0.86381	2479.5748	2480.4386	---	---
2DH5	Ant1	2402	1.1889	2401.4152	2402.6041	---	---
		2441	1.1869	2440.4163	2441.6032	---	---
		2480	1.1872	2479.4178	2480.6050	---	---
3DH5	Ant1	2402	1.1858	2401.4177	2402.6035	---	---
		2441	1.1870	2440.4181	2441.6051	---	---
		2480	1.1858	2479.4178	2480.6036	---	---

Test Graphs

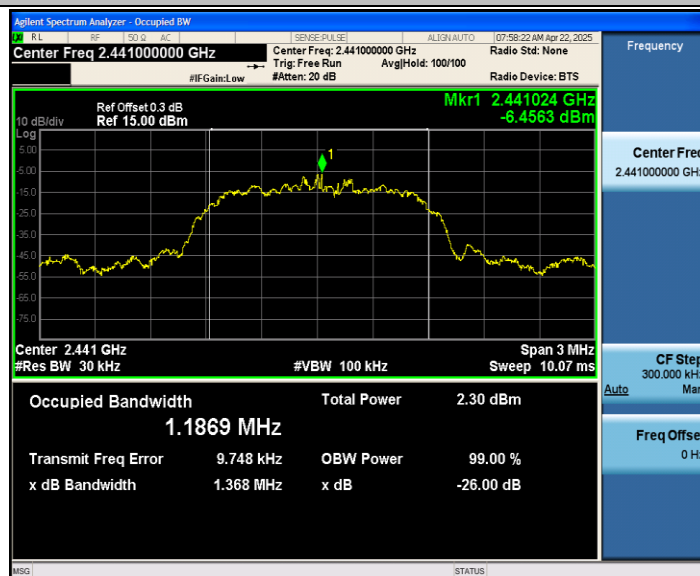




2DH5_Ant1_2402



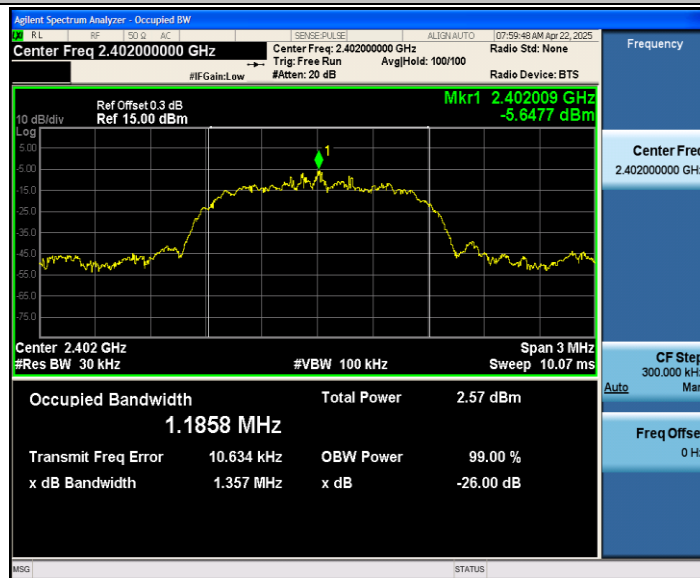
2DH5_Ant1_2441



2DH5_Ant1_2480



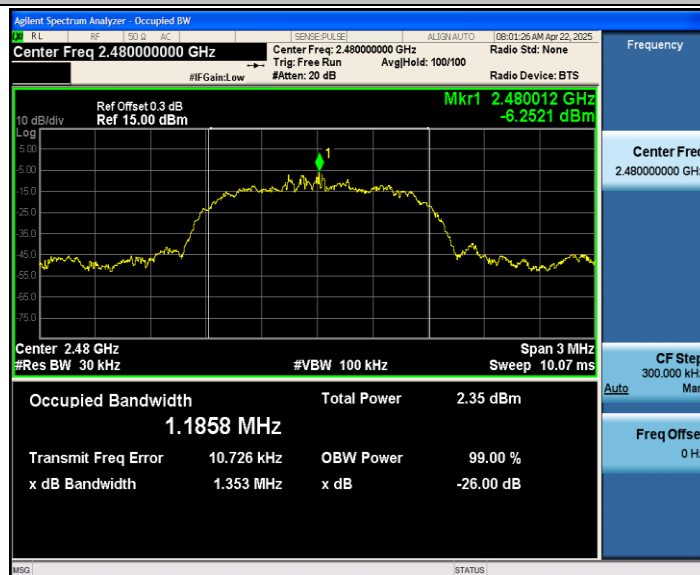
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

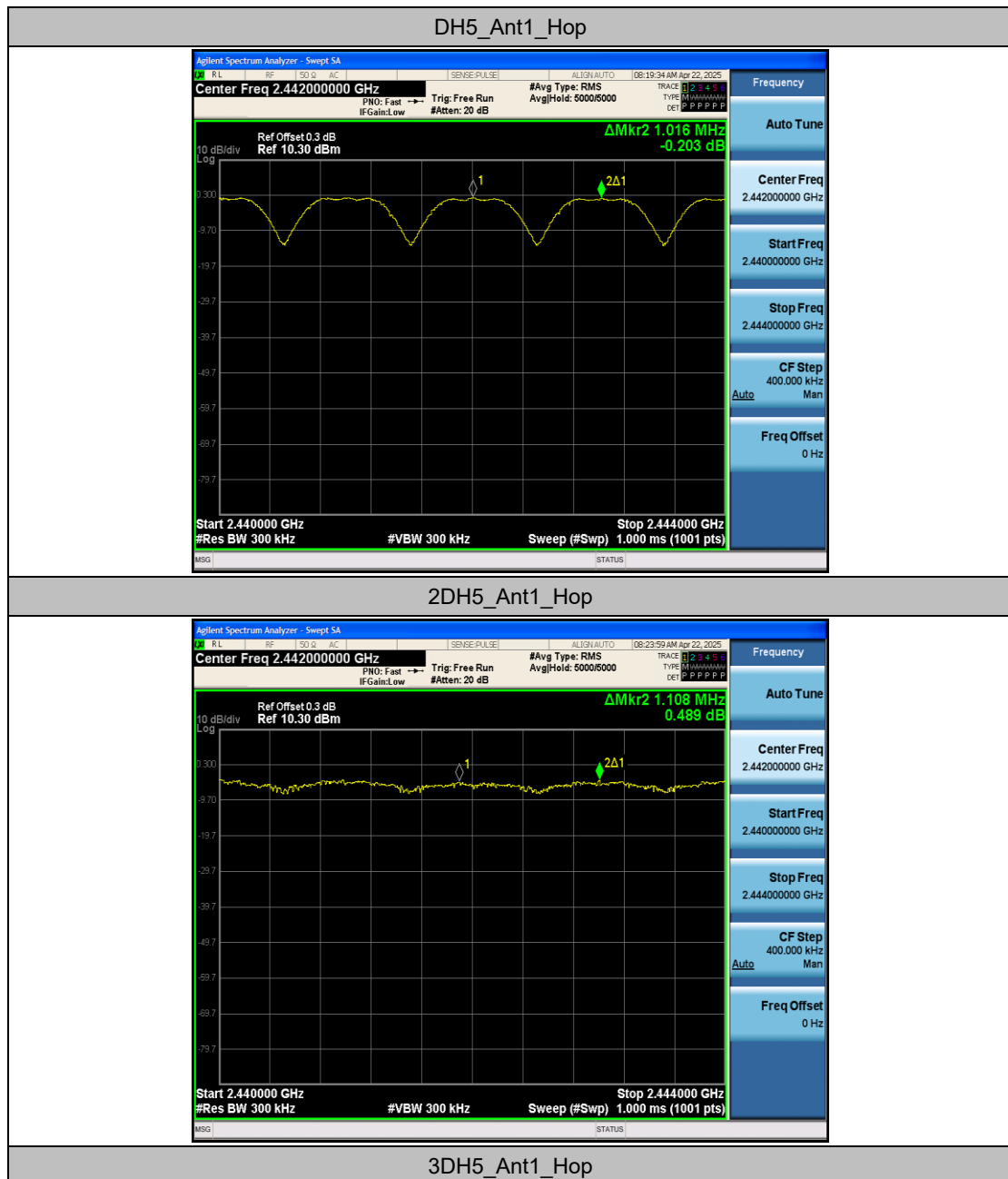
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.20	≤20.97	PASS
		2441	-0.40	≤20.97	PASS
		2480	-0.47	≤20.97	PASS
2DH5	Ant1	2402	-0.98	≤20.97	PASS
		2441	-1.19	≤20.97	PASS
		2480	-1.29	≤20.97	PASS
3DH5	Ant1	2402	-0.60	≤20.97	PASS
		2441	-0.81	≤20.97	PASS
		2480	-0.85	≤20.97	PASS

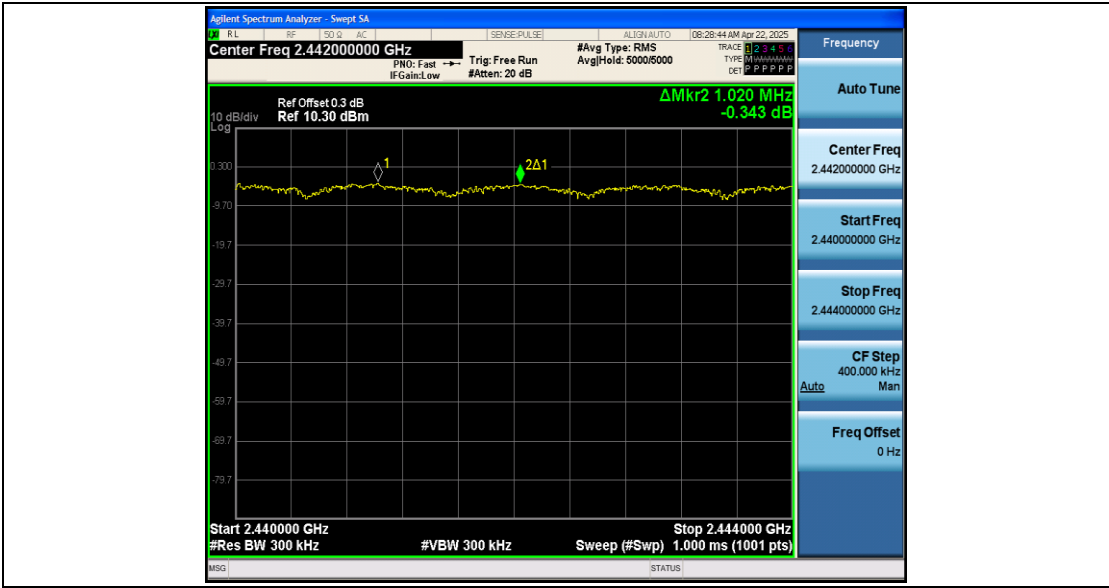
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.016	≥ 0.954	PASS
2DH5	Ant1	Hop	1.108	≥ 0.884	PASS
3DH5	Ant1	Hop	1.02	≥ 0.872	PASS

Test Graphs



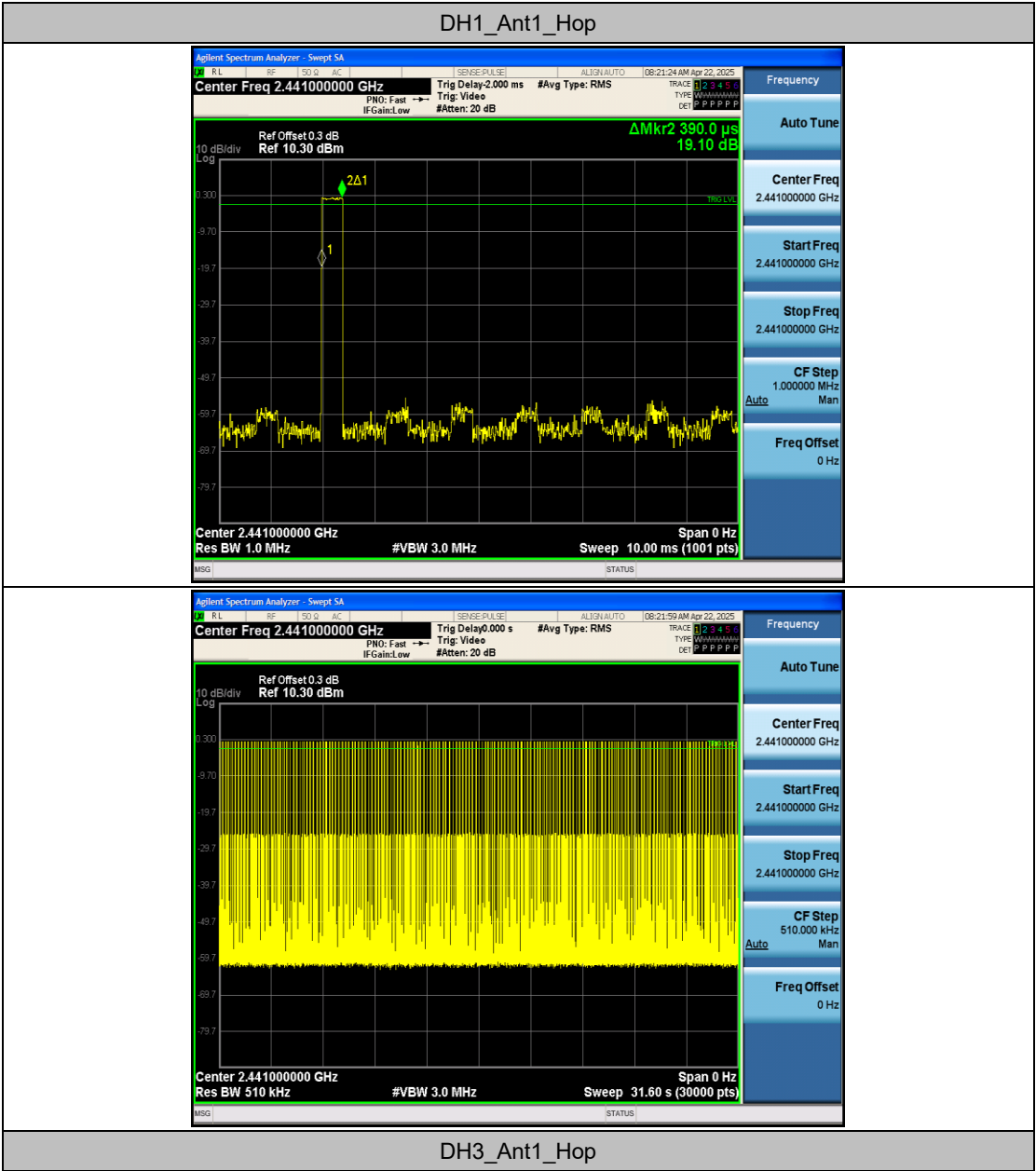


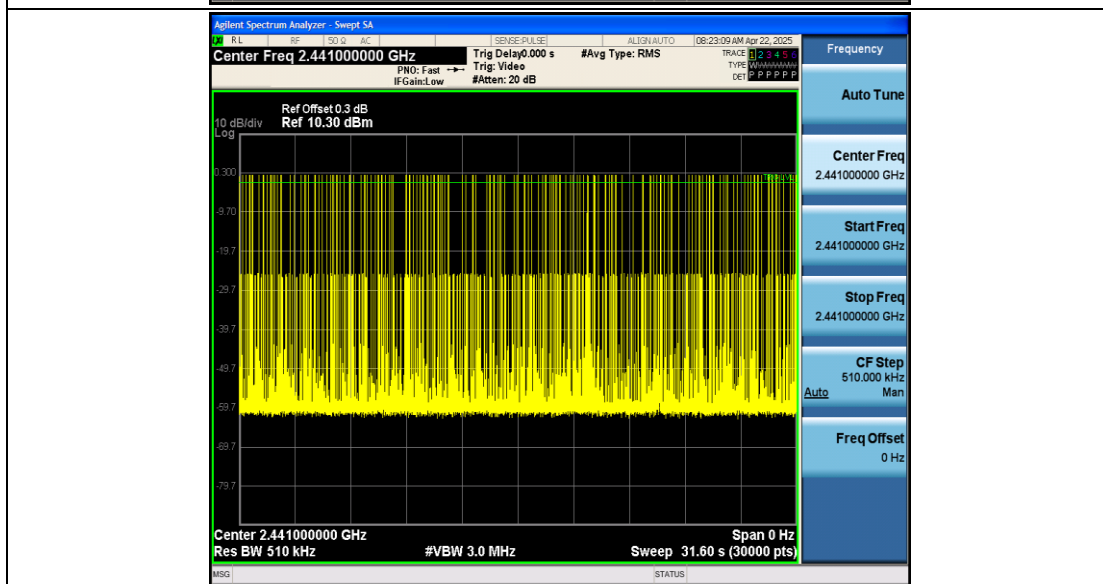
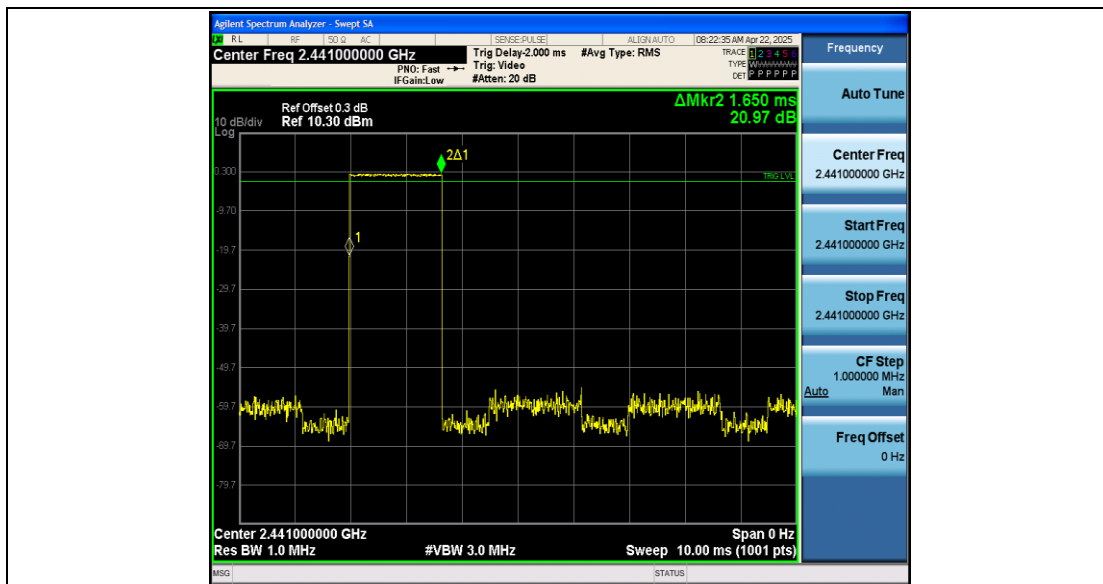
Appendix E: Time of occupancy

Test Result

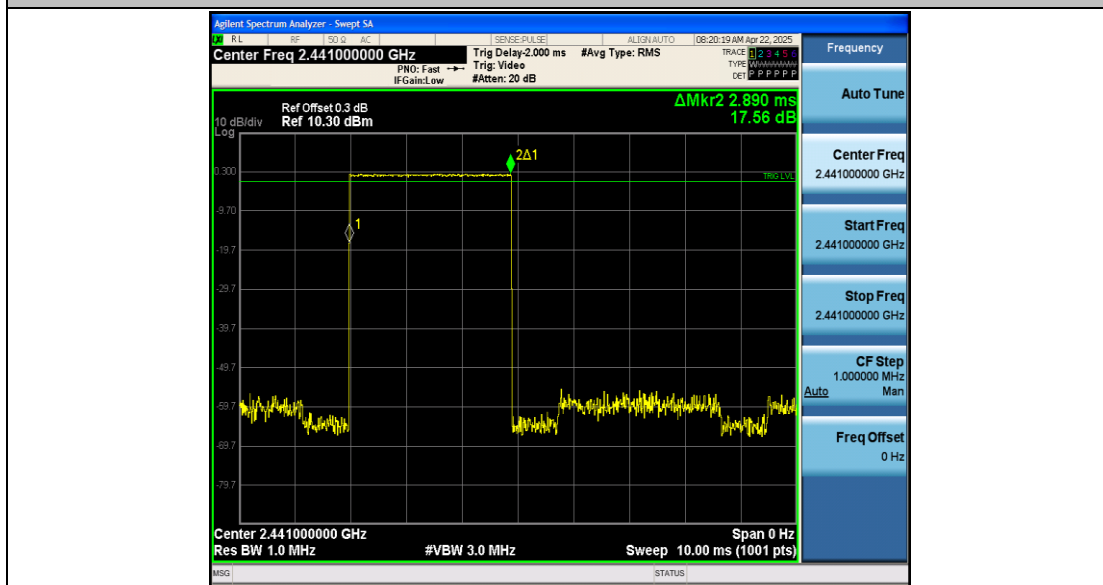
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.650	172	0.284	≤0.4	PASS
DH5	Ant1	Hop	2.890	93	0.269	≤0.4	PASS
2DH1	Ant1	Hop	0.400	317	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.650	167	0.276	≤0.4	PASS
2DH5	Ant1	Hop	2.900	106	0.307	≤0.4	PASS
3DH1	Ant1	Hop	0.400	311	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.650	163	0.269	≤0.4	PASS
3DH5	Ant1	Hop	2.900	111	0.322	≤0.4	PASS

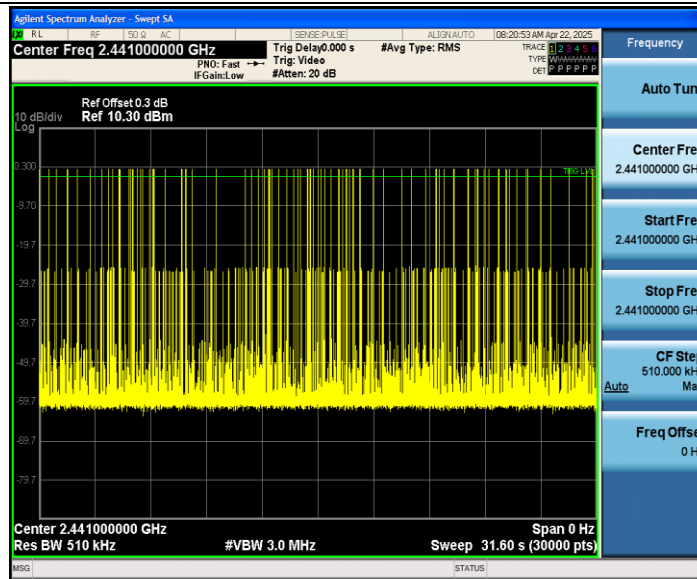
Test Graphs



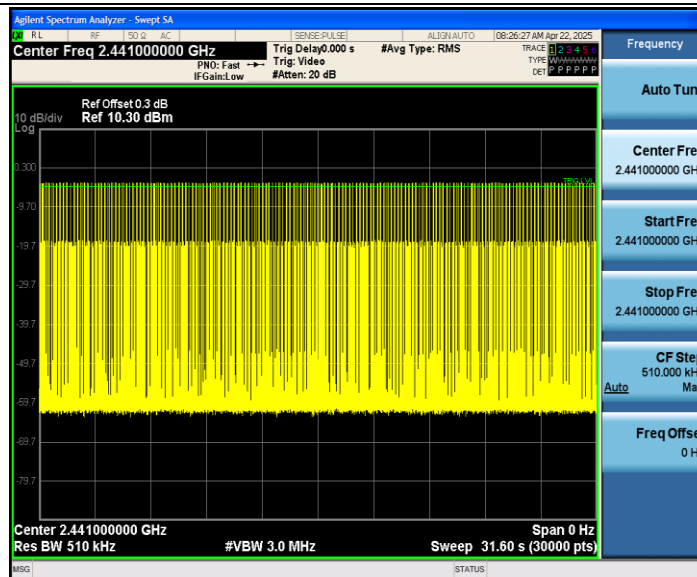
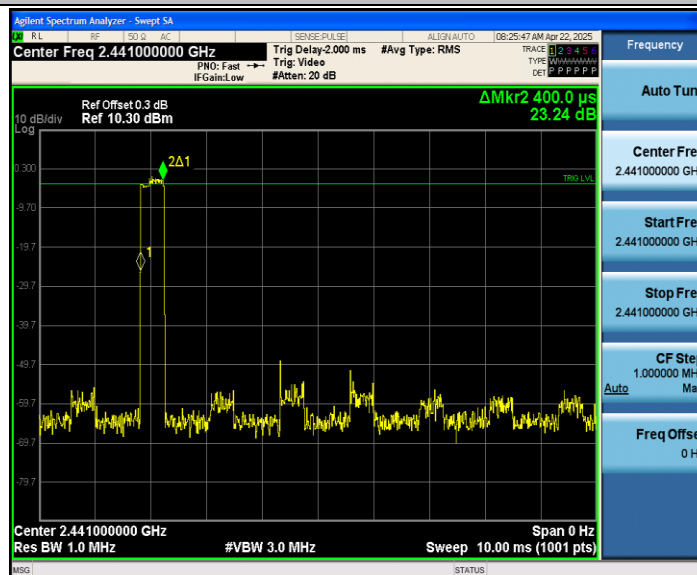


DH5_Ant1_Hop

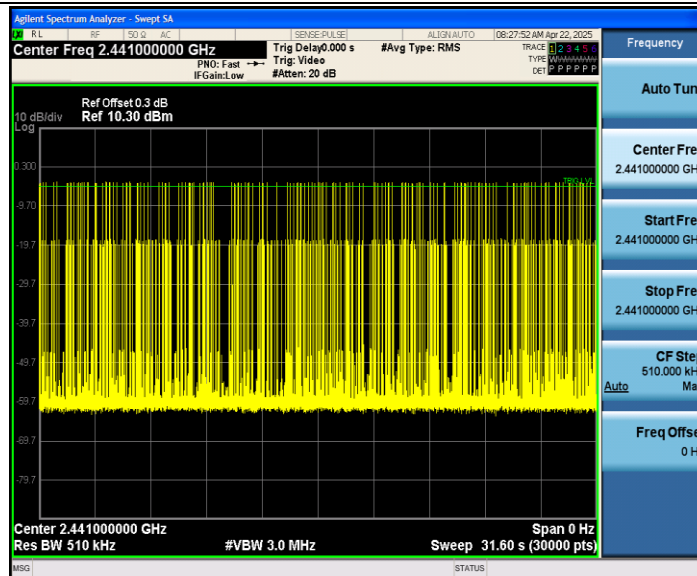




2DH1_Ant1_Hop

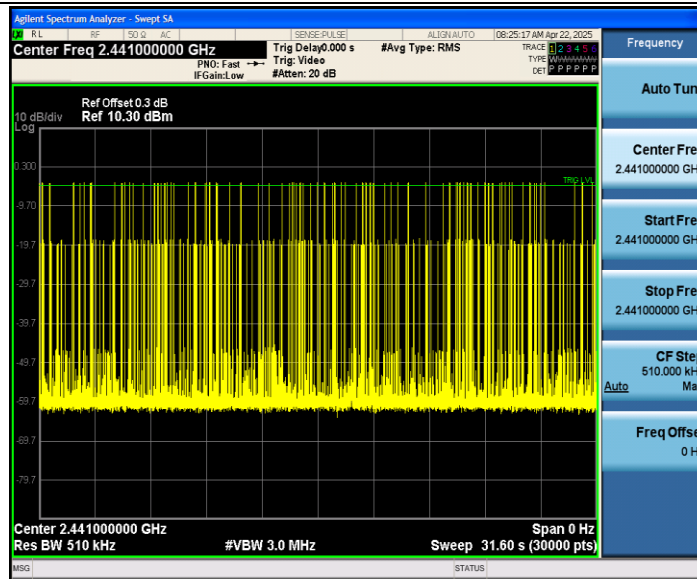


2DH3_Ant1_Hop

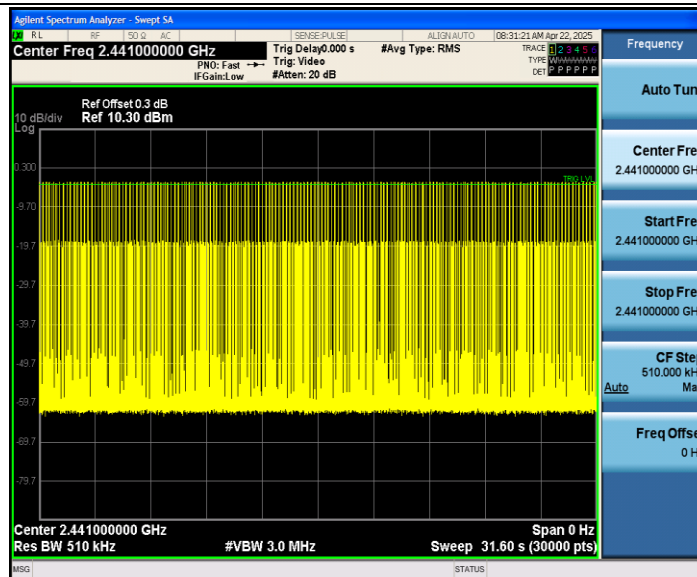
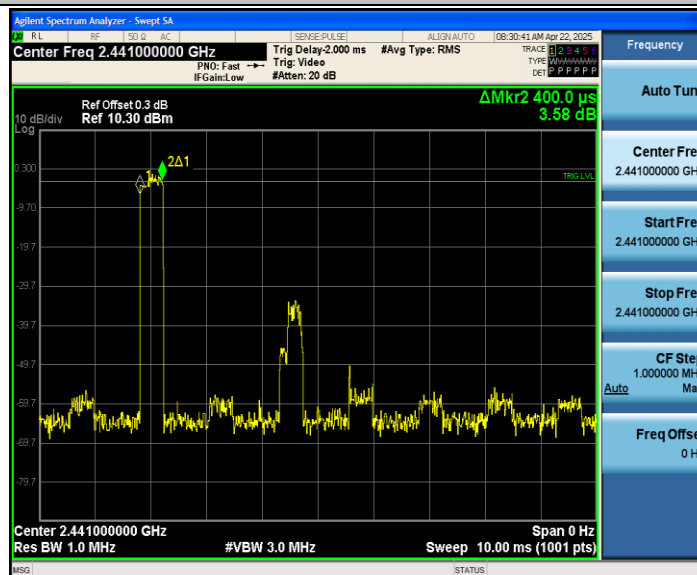


2DH5_Ant1_Hop

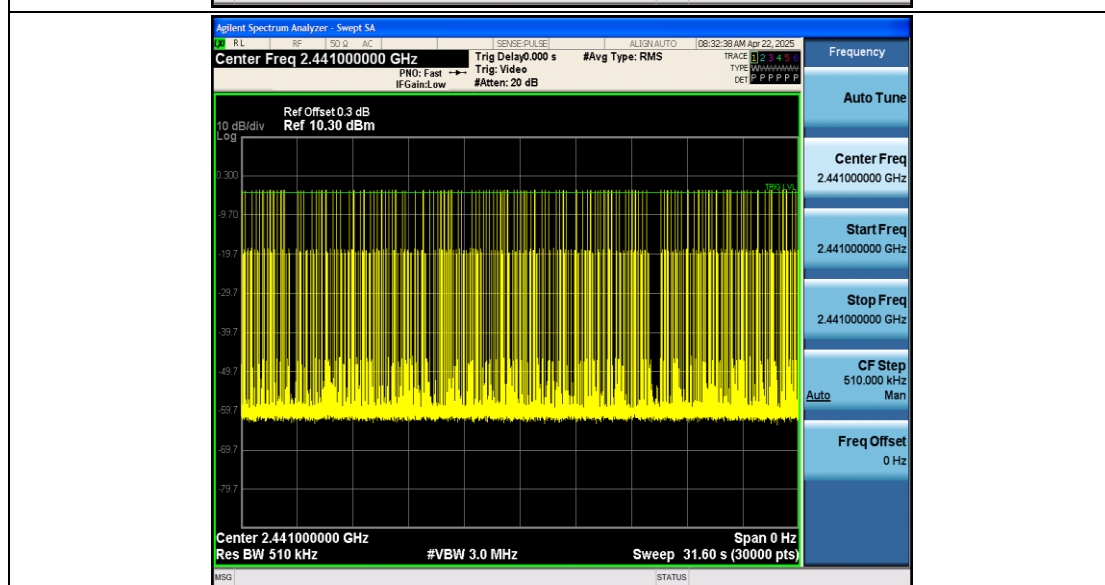




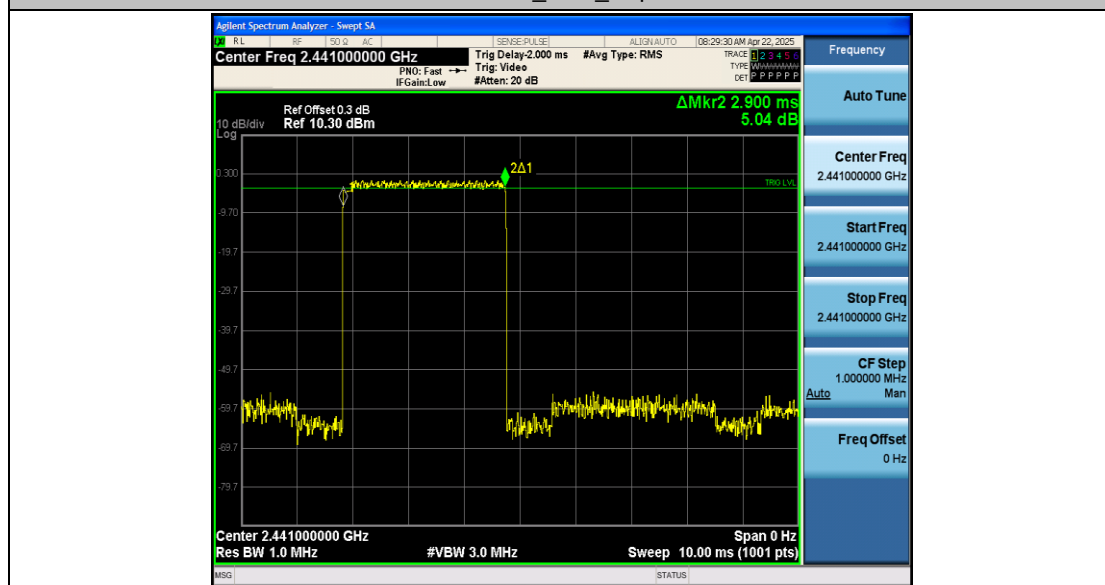
3DH1_Ant1_Hop

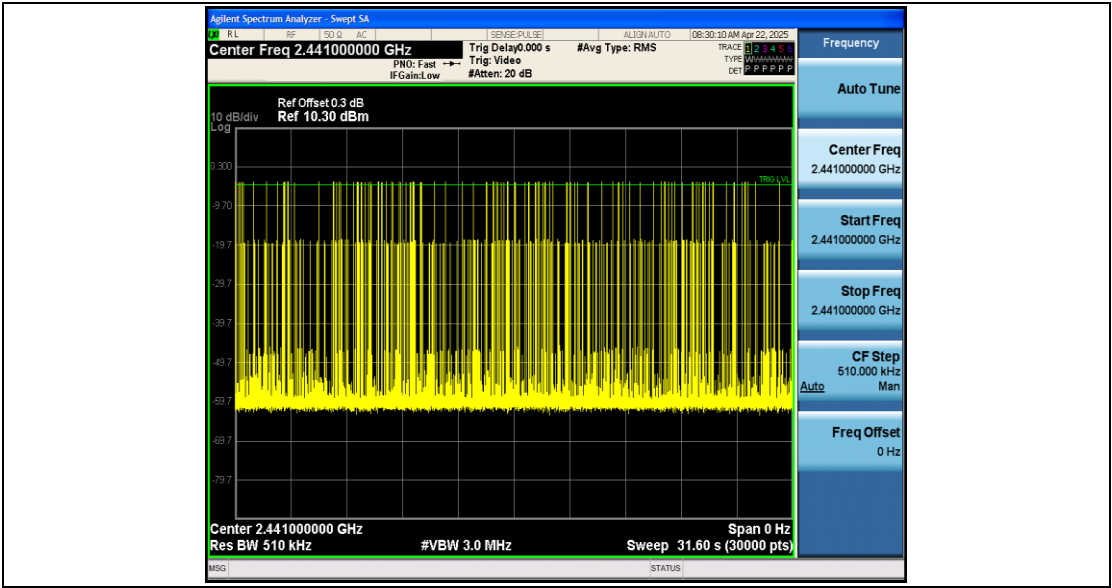


3DH3_Ant1_Hop



3DH5_Ant1_Hop





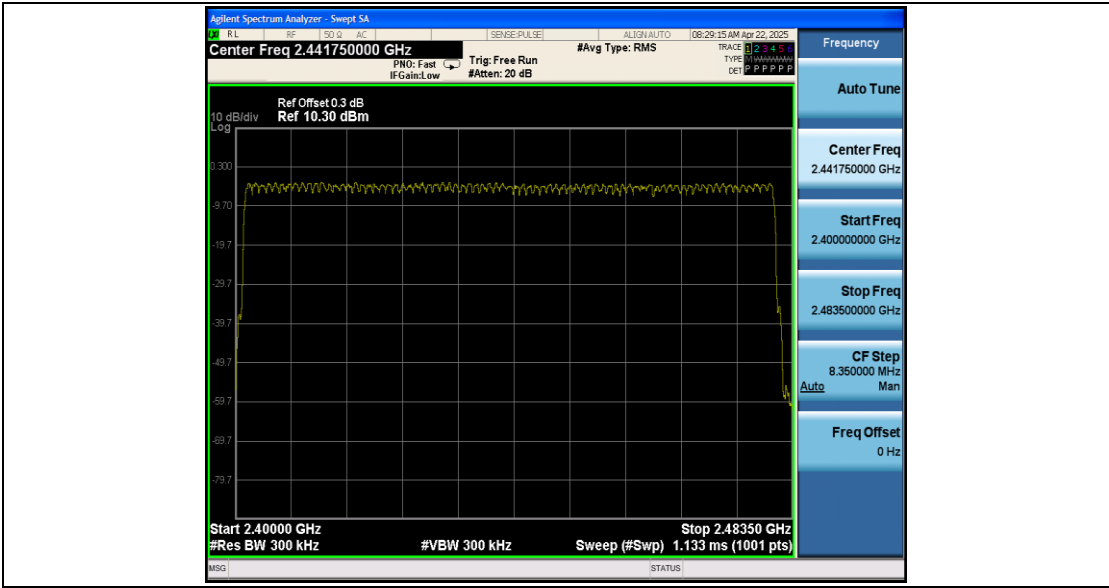
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



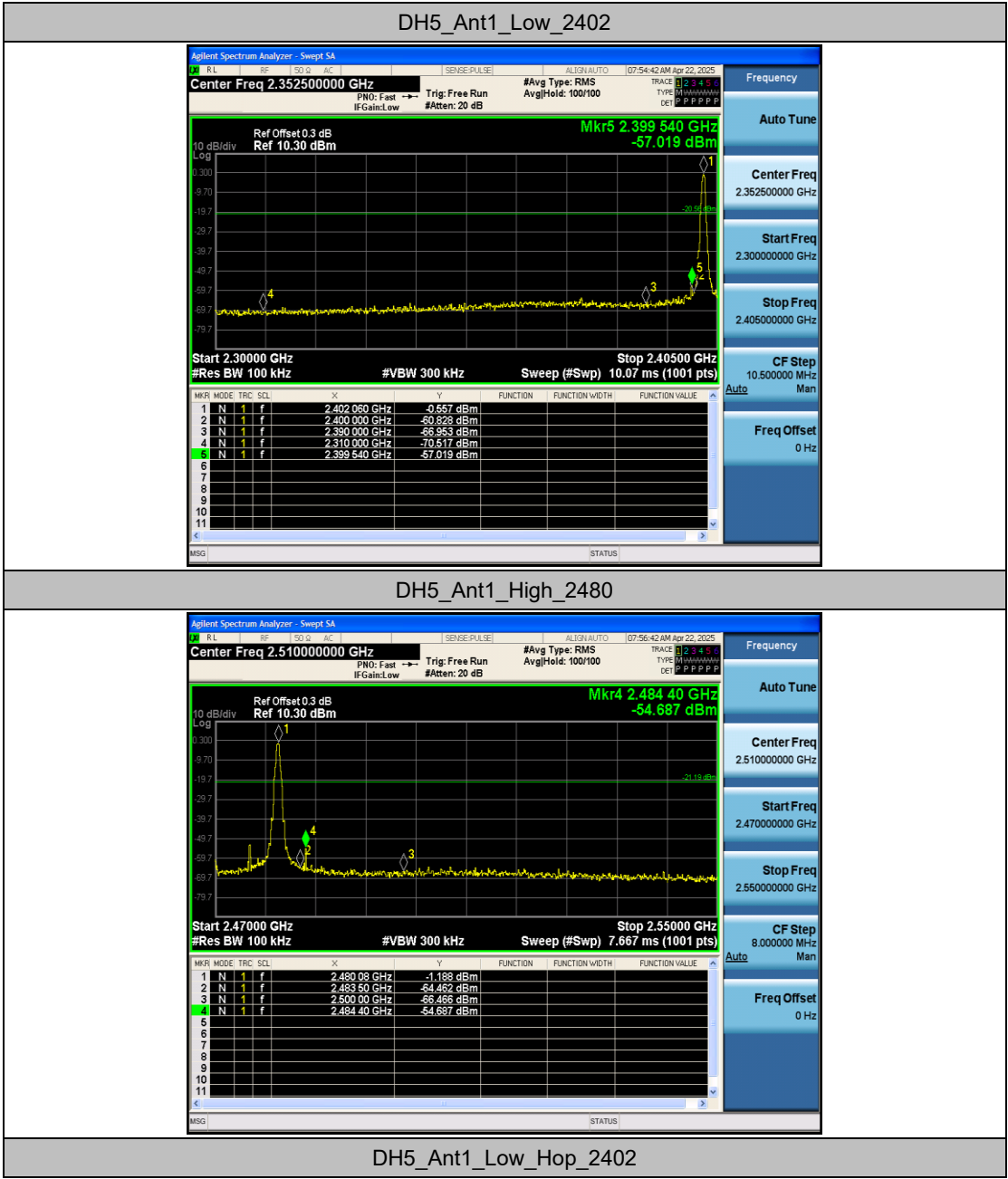


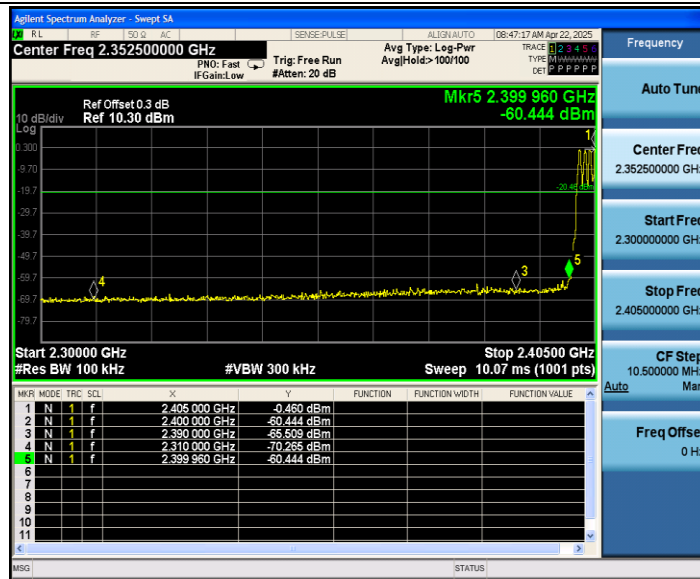
Appendix G: Band edge measurements

Test Result

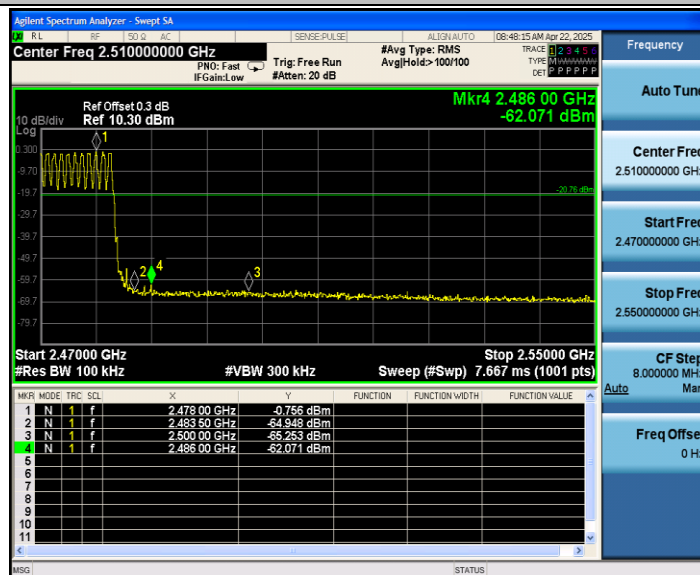
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.56	-57.02	≤-20.56	PASS
		High	2480	-1.19	-54.69	≤-21.19	PASS
		Low	Hop_2402	-0.46	-60.44	≤-20.46	PASS
		High	Hop_2480	-0.76	-62.07	≤-20.76	PASS
2DH5	Ant1	Low	2402	-4.16	-59.66	≤-24.16	PASS
		High	2480	-6.74	-58.65	≤-26.74	PASS
		Low	Hop_2402	-3.84	-60.8	≤-23.84	PASS
		High	Hop_2480	-4.08	-56.21	≤-24.08	PASS
3DH5	Ant1	Low	2402	-6.00	-60.62	≤-26	PASS
		High	2480	-4.48	-54.84	≤-24.48	PASS
		Low	Hop_2402	-4.30	-58.51	≤-24.3	PASS
		High	Hop_2480	-3.94	-63.94	≤-23.94	PASS

Test Graphs

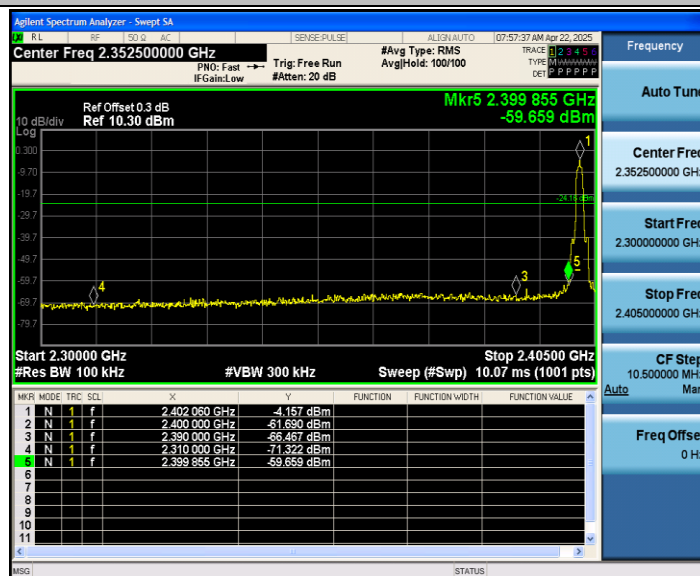




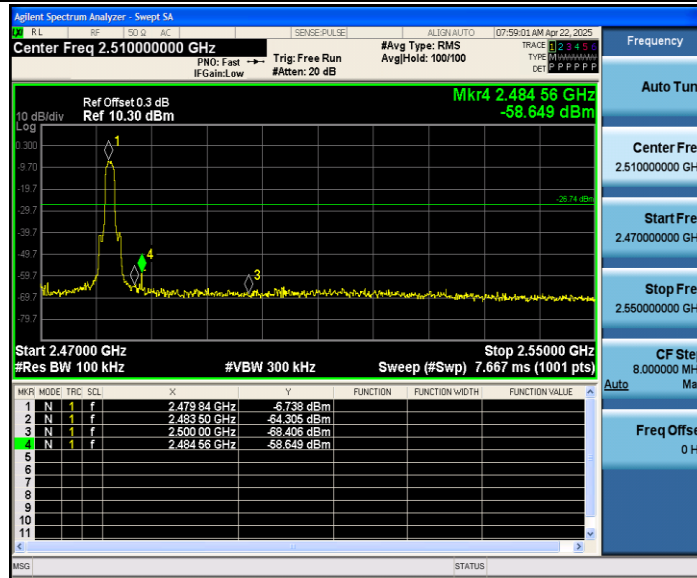
DH5_Ant1_High_Hop_2480



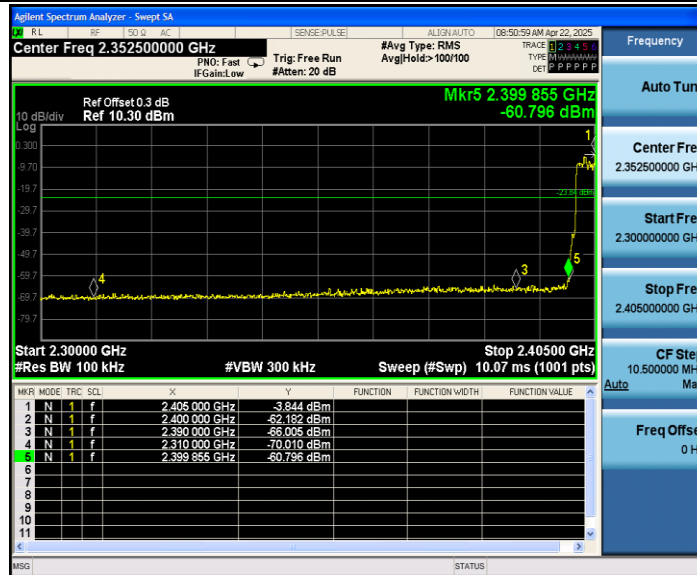
2DH5_Ant1_Low_2402



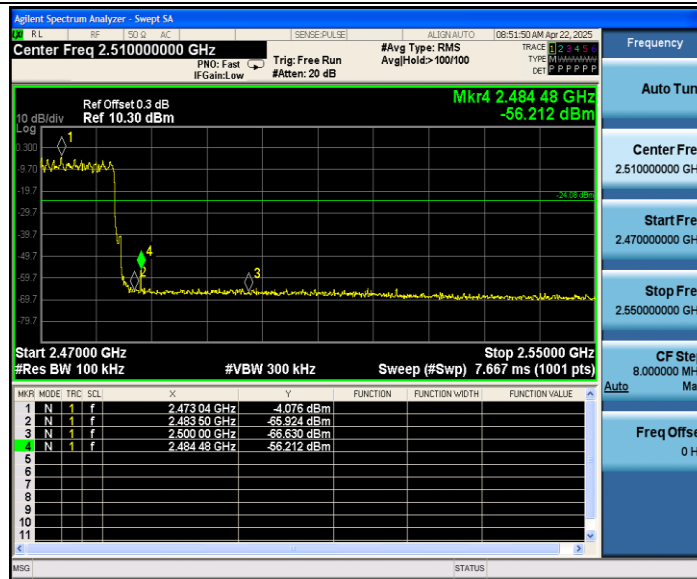
2DH5_Ant1_High_2480



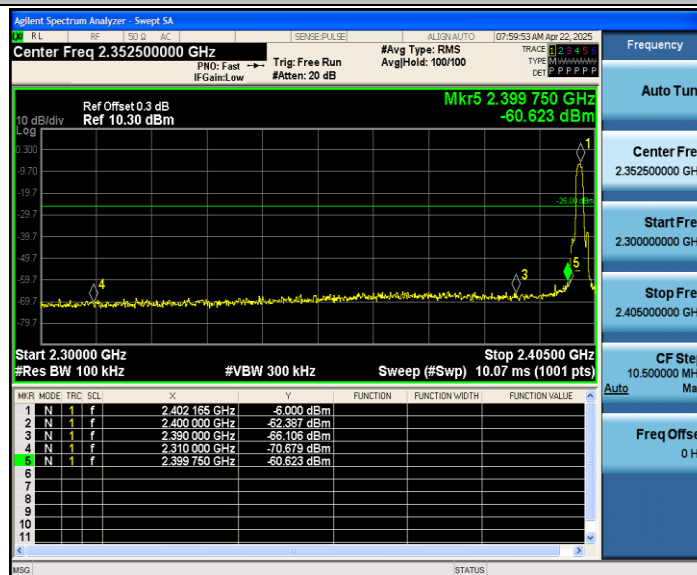
2DH5_Ant1_Low_Hop_2402



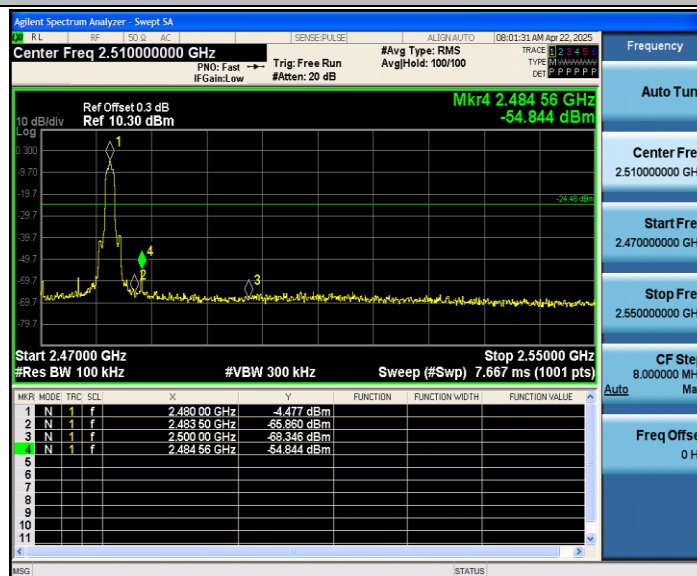
2DH5_Ant1_High_Hop_2480



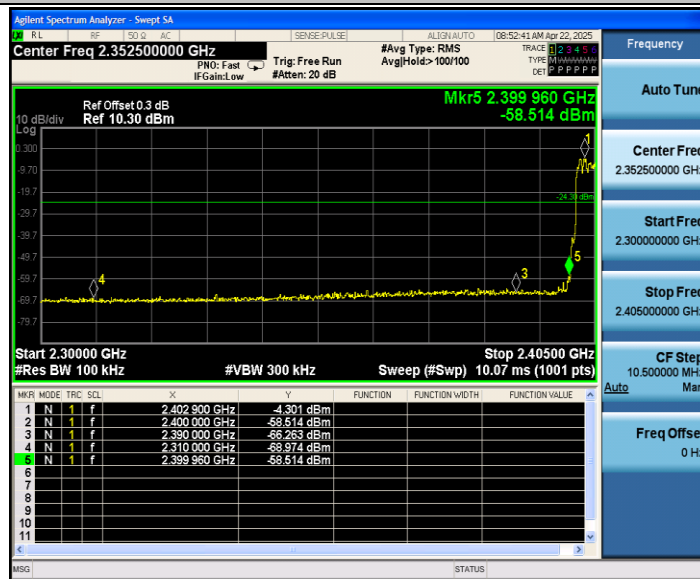
3DH5_Ant1_Low_2402



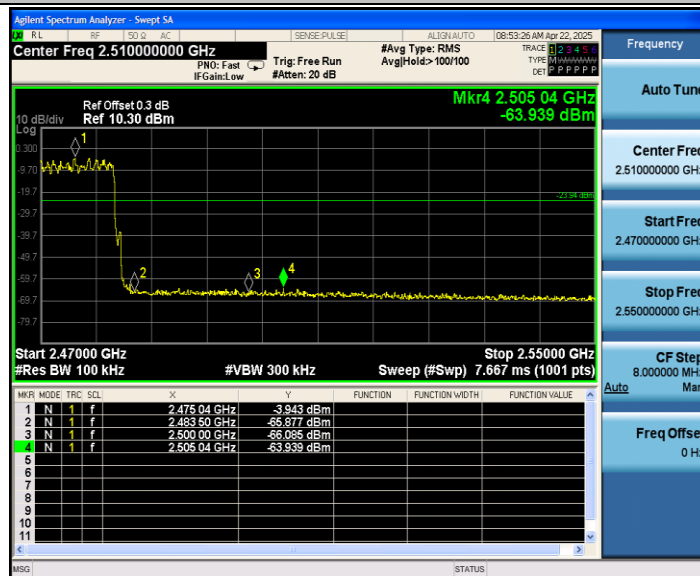
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

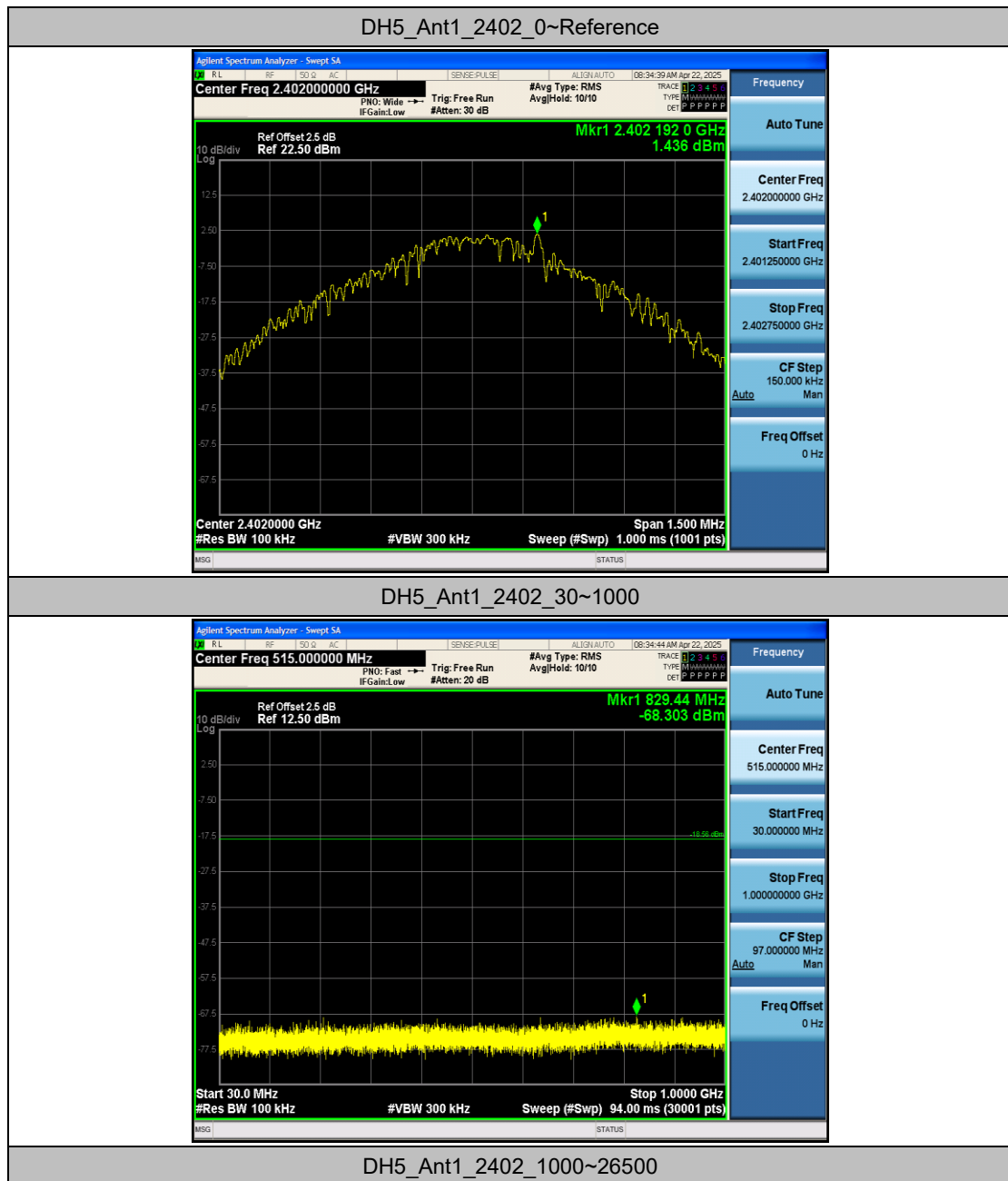


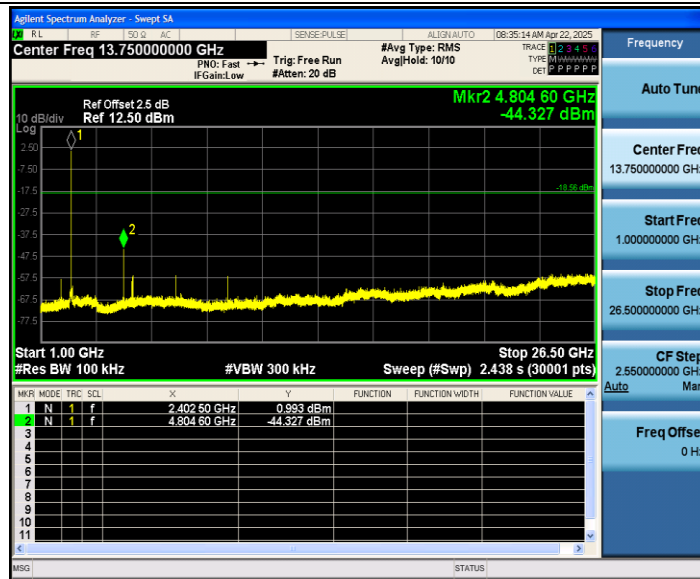
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.44	1.44	---	PASS
			30~1000	1.44	-68.3	≤-18.56	PASS
			1000~26500	1.44	-44.33	≤-18.56	PASS
		2441	Reference	0.82	0.82	---	PASS
			30~1000	0.82	-67.65	≤-19.18	PASS
			1000~26500	0.82	-42.6	≤-19.18	PASS
		2480	Reference	1.19	1.19	---	PASS
			30~1000	1.19	-67.85	≤-18.81	PASS
			1000~26500	1.19	-44.63	≤-18.81	PASS
2DH5	Ant1	2402	Reference	-4.97	-4.97	---	PASS
			30~1000	-4.97	-67.99	≤-24.97	PASS
			1000~26500	-4.97	-49.97	≤-24.97	PASS
		2441	Reference	-2.70	-2.70	---	PASS
			30~1000	-2.70	-67.91	≤-22.7	PASS
			1000~26500	-2.70	-48.97	≤-22.7	PASS
		2480	Reference	-4.19	-4.19	---	PASS
			30~1000	-4.19	-49.86	≤-24.19	PASS
			1000~26500	-4.19	-50.73	≤-24.19	PASS
3DH5	Ant1	2402	Reference	-4.04	-4.04	---	PASS
			30~1000	-4.04	-68.08	≤-24.04	PASS
			1000~26500	-4.04	-45.84	≤-24.04	PASS
		2441	Reference	-2.42	-2.42	---	PASS
			30~1000	-2.42	-52.75	≤-22.42	PASS
			1000~26500	-2.42	-49.05	≤-22.42	PASS
		2480	Reference	-3.58	-3.58	---	PASS
			30~1000	-3.58	-67.4	≤-23.58	PASS
			1000~26500	-3.58	-49.81	≤-23.58	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

