

FCC Appendix RF Test Data for BT

FCC ID : 2A7ZP-AP80PROMAX

Company : DongGuan Hidizs Technology Co.,Ltd.

EUT : AP80 PRO MAX Portable High-Res Lossless Music Player

Model Number : AP80 PRO MAX

Report No. : CTA25120400601

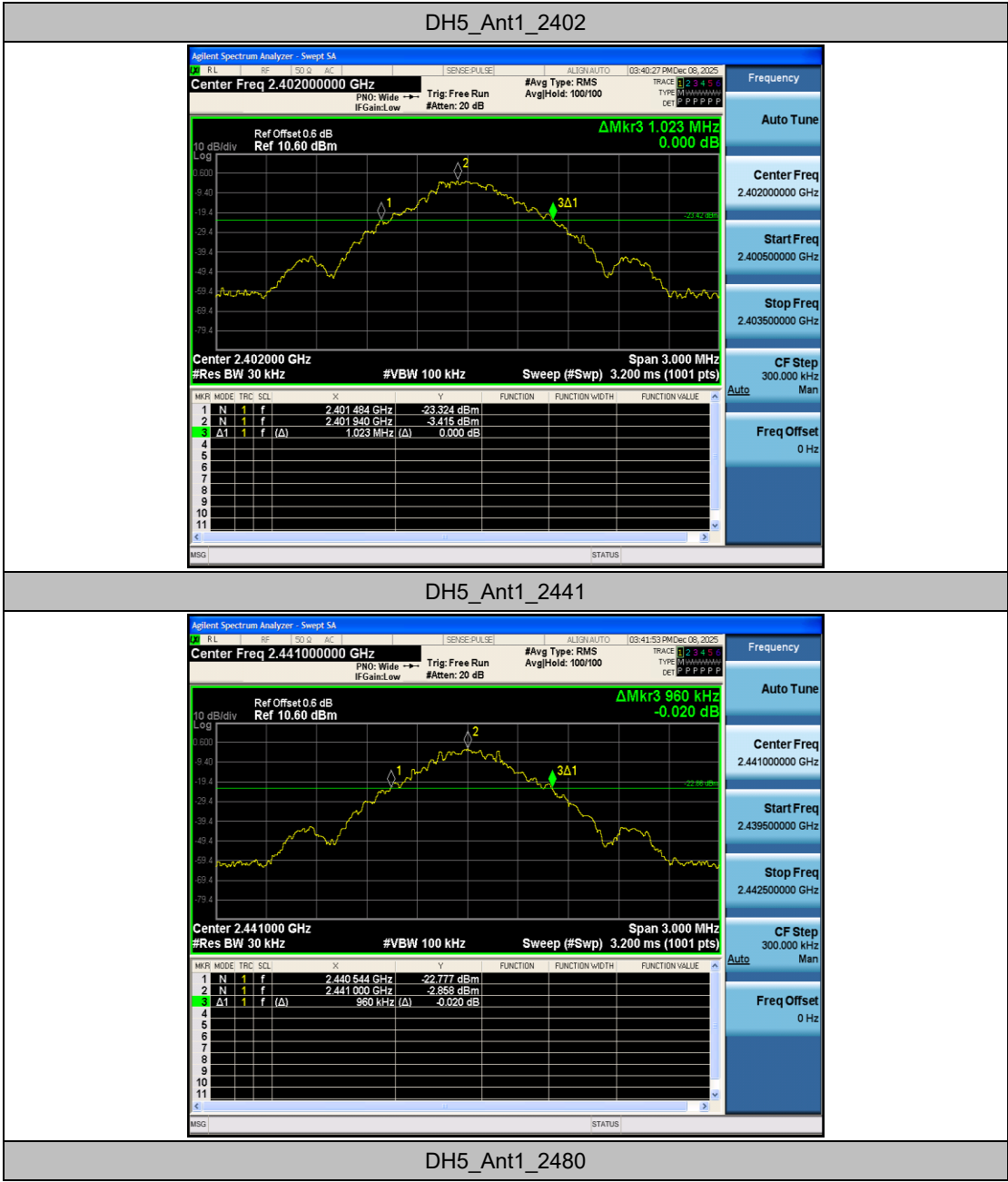
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.023	2401.484	2402.507	---	---
		2441	0.960	2440.544	2441.504	---	---
		2480	0.948	2479.550	2480.498	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.344	2440.337	2441.681	---	---
		2480	1.338	2479.340	2480.678	---	---
3DH5	Ant1	2402	1.293	2401.376	2402.669	---	---
		2441	1.323	2440.349	2441.672	---	---
		2480	1.320	2479.346	2480.666	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



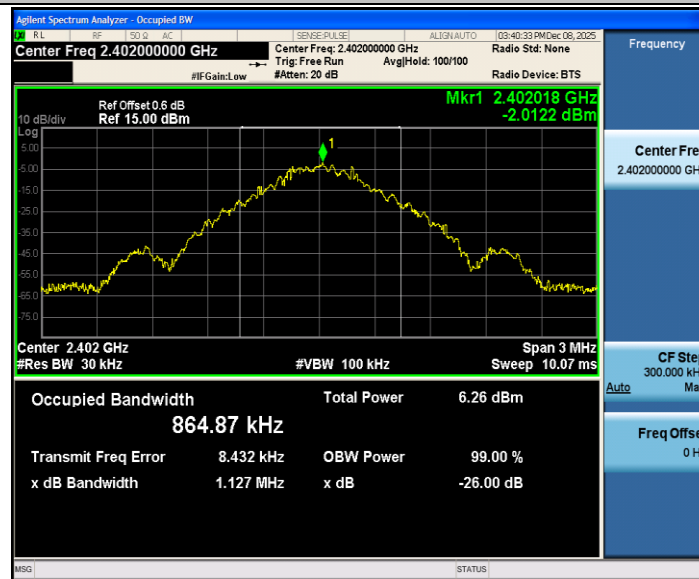
Appendix B: Occupied Channel Bandwidth

Test Result

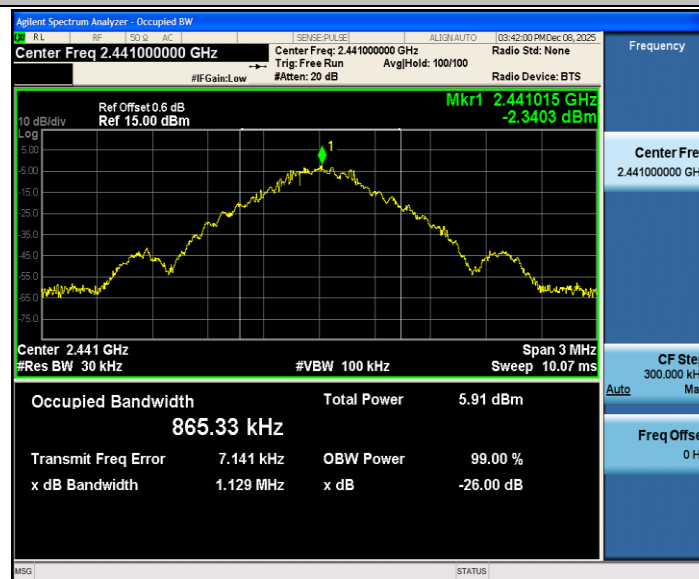
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86487	2401.5760	2402.4409	---	---
		2441	0.86533	2440.5745	2441.4398	---	---
		2480	0.87151	2479.5750	2480.4465	---	---
2DH5	Ant1	2402	1.1880	2401.4171	2402.6051	---	---
		2441	1.1854	2440.4175	2441.6029	---	---
		2480	1.1875	2479.4160	2480.6035	---	---
3DH5	Ant1	2402	1.1862	2401.4160	2402.6022	---	---
		2441	1.1884	2440.4160	2441.6044	---	---
		2480	1.1894	2479.4164	2480.6058	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



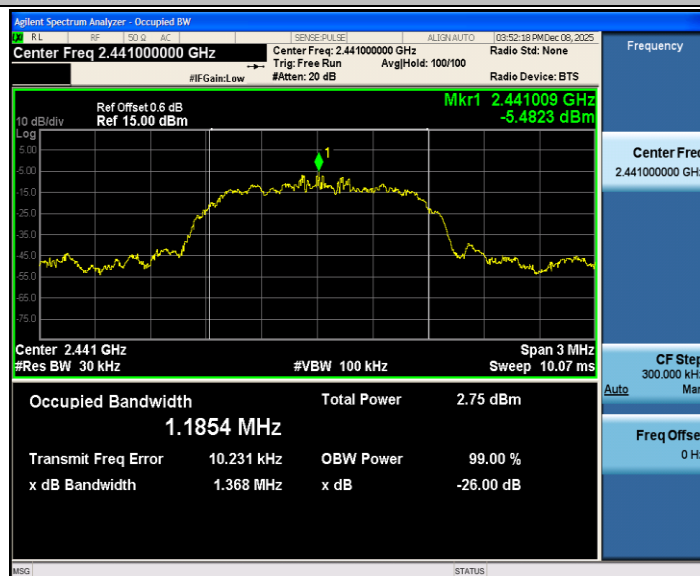
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



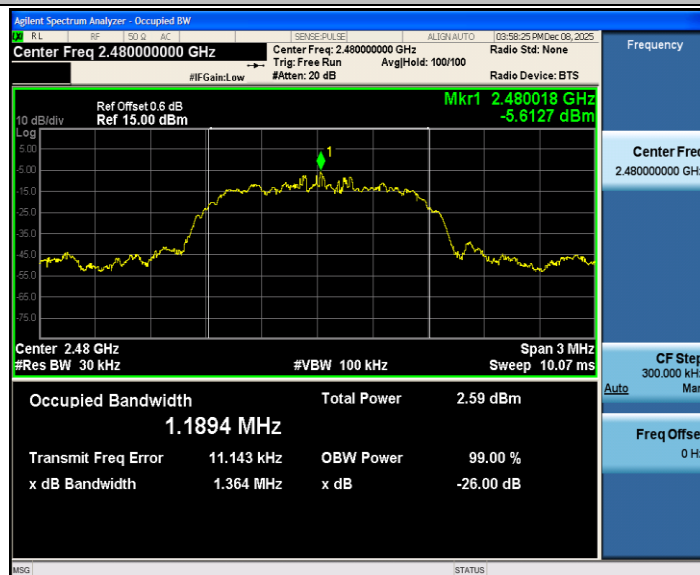
3DH5_Ant1_2402



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	0.18	≤20.97	PASS
		2441	-0.07	≤20.97	PASS
		2480	-0.11	≤20.97	PASS
2DH5	Ant1	2402	-0.66	≤20.97	PASS
		2441	-0.86	≤20.97	PASS
		2480	-0.98	≤20.97	PASS
3DH5	Ant1	2402	-0.62	≤20.97	PASS
		2441	-0.86	≤20.97	PASS
		2480	-0.93	≤20.97	PASS

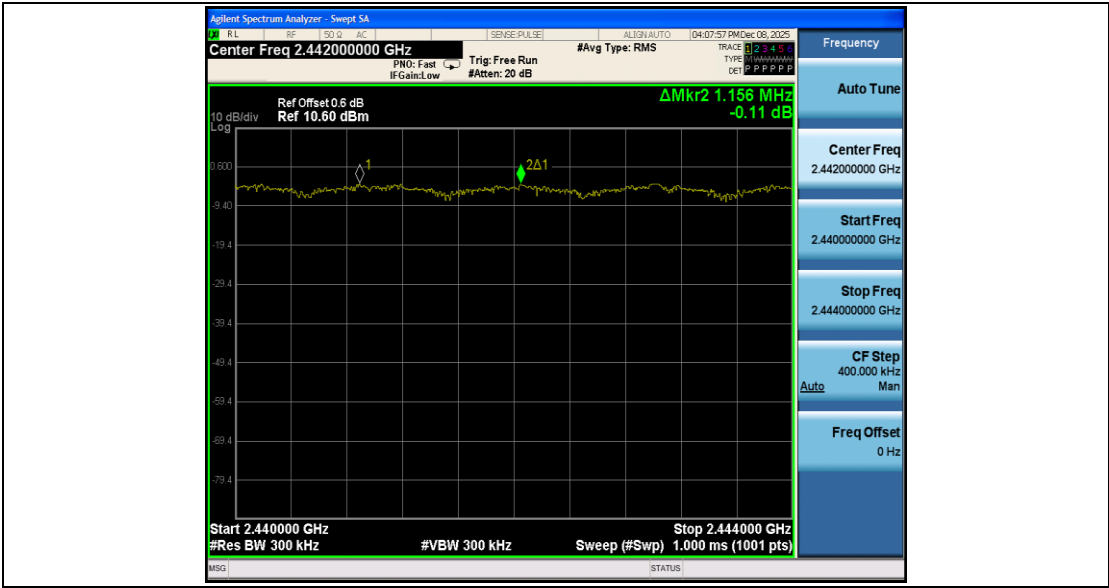
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.024	≥ 1.023	PASS
2DH5	Ant1	Hop	0.988	≥ 0.896	PASS
3DH5	Ant1	Hop	1.156	≥ 0.882	PASS

Test Graphs



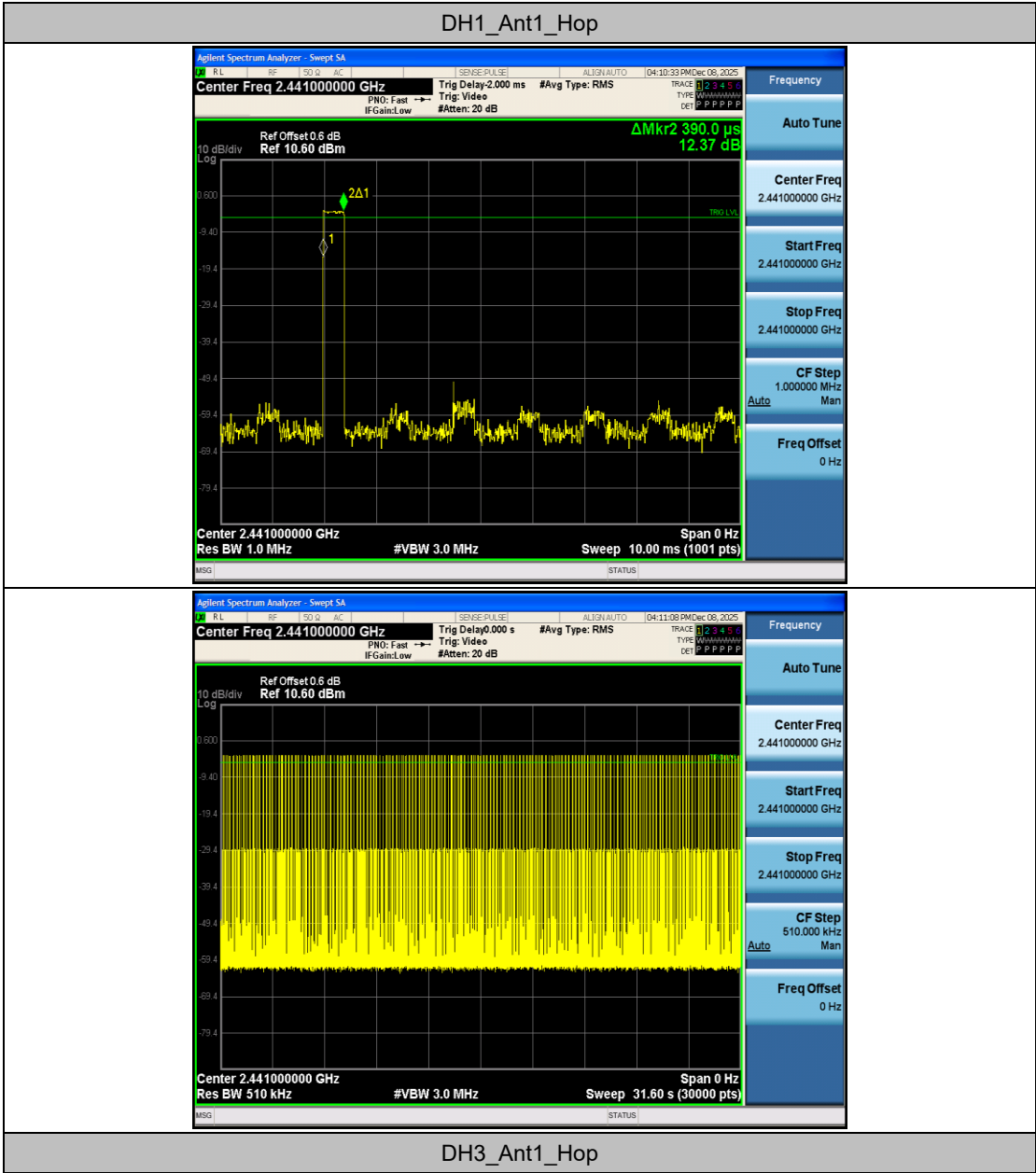


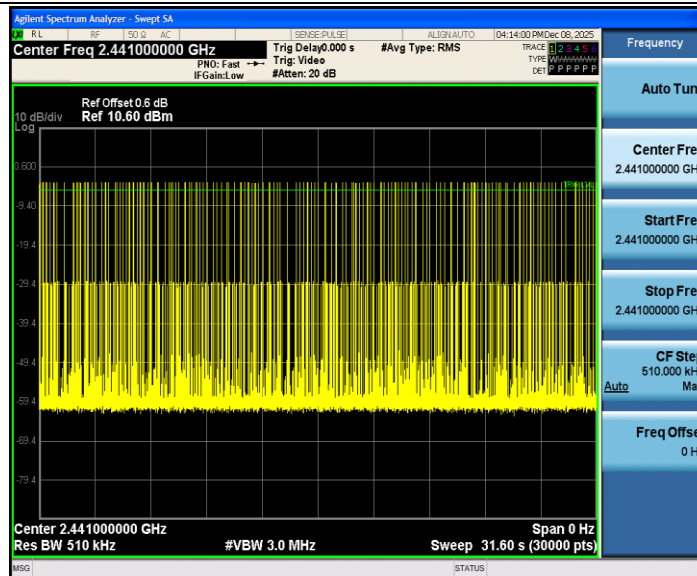
Appendix E: Time of occupancy

Test Result

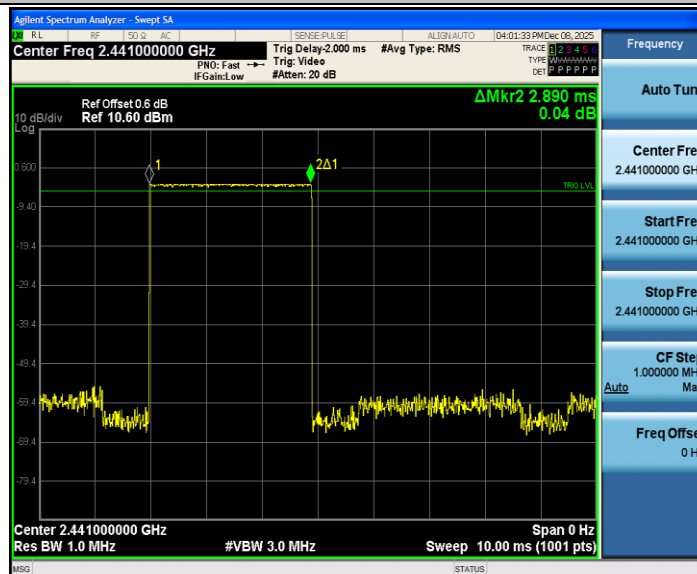
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	316	0.123	≤0.4	PASS
DH3	Ant1	Hop	1.650	173	0.285	≤0.4	PASS
DH5	Ant1	Hop	2.890	106	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.390	316	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.640	156	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.900	117	0.339	≤0.4	PASS
3DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.650	162	0.267	≤0.4	PASS
3DH5	Ant1	Hop	2.900	113	0.328	≤0.4	PASS

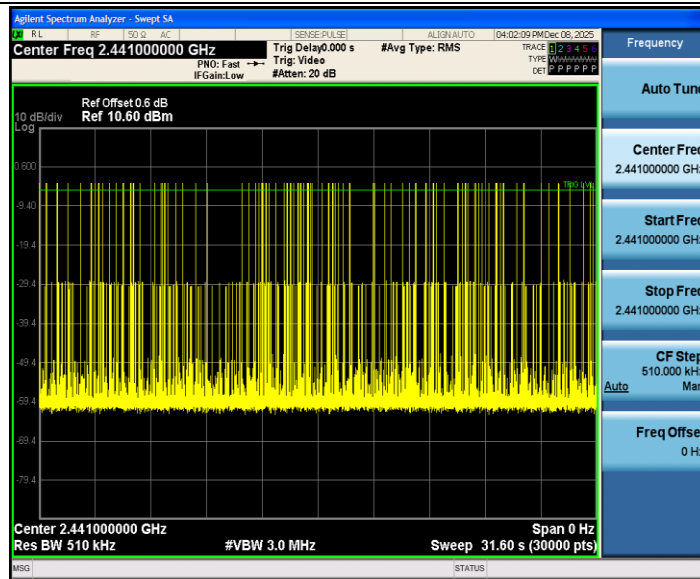
Test Graphs



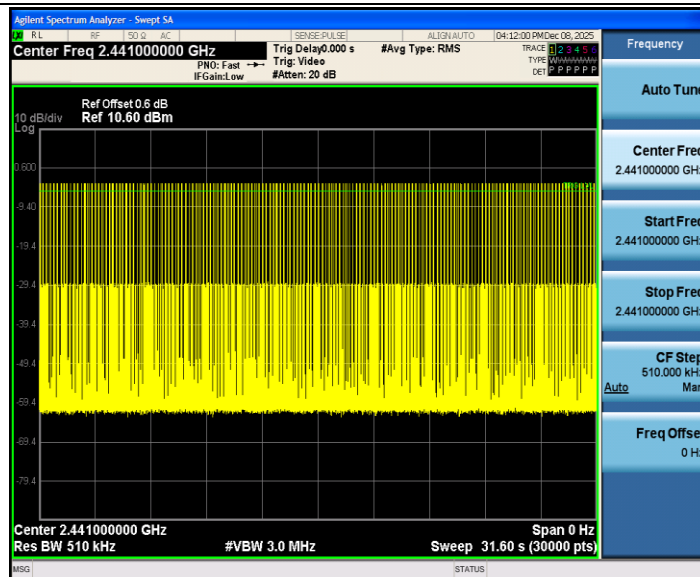
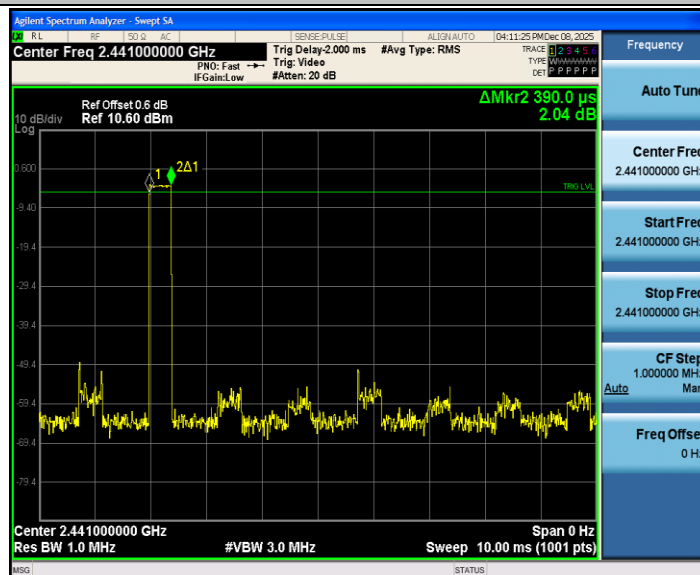


DH5_Ant1_Hop

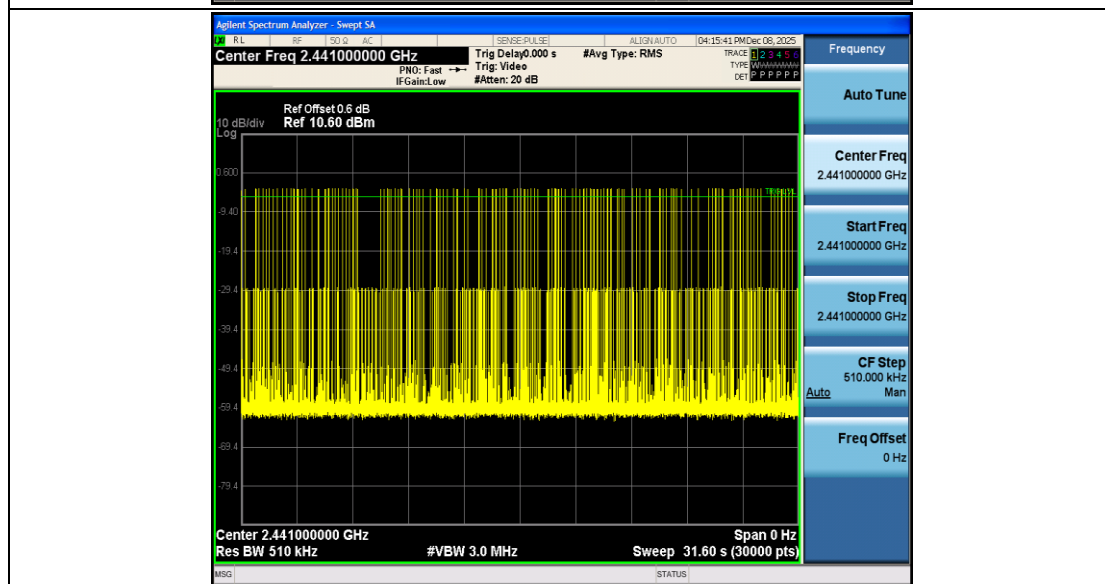




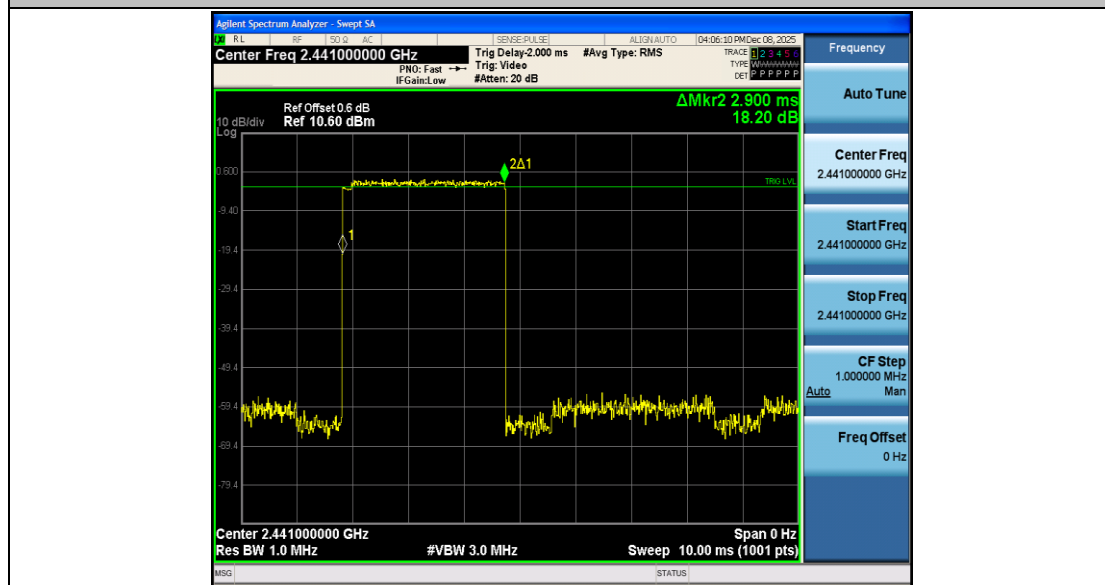
2DH1_Ant1_Hop

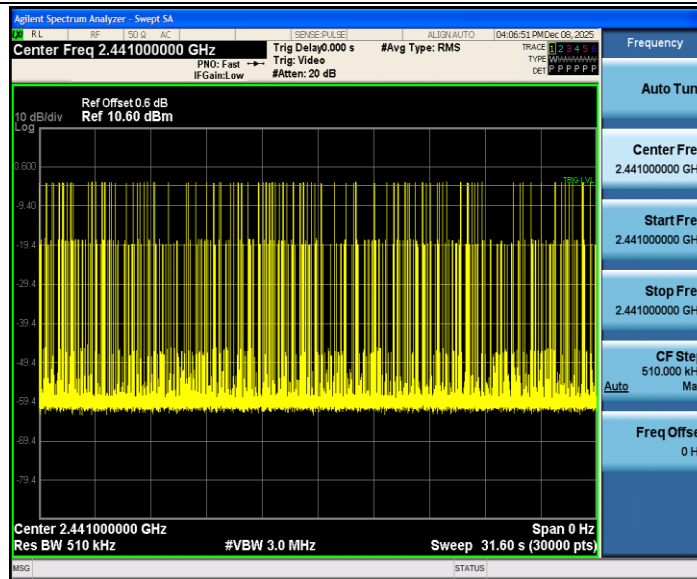


2DH3_Ant1_Hop

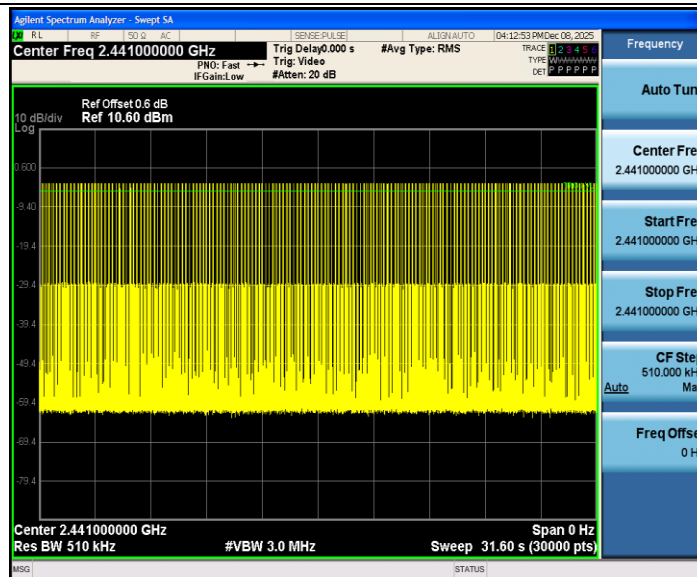
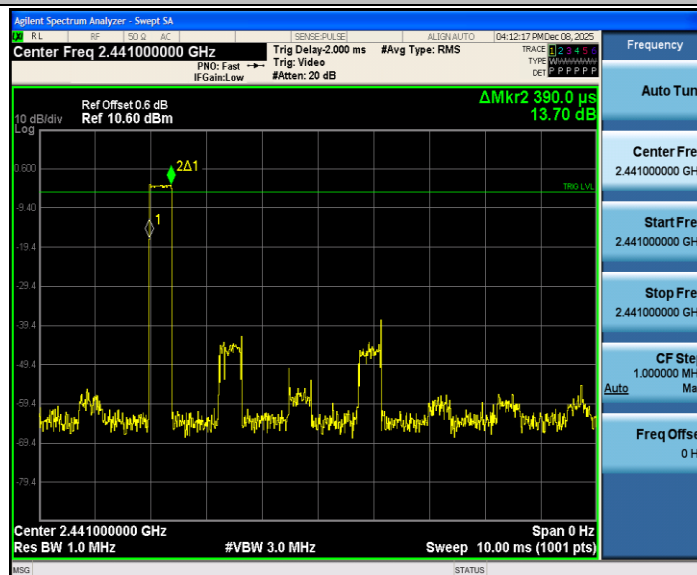


2DH5_Ant1_Hop

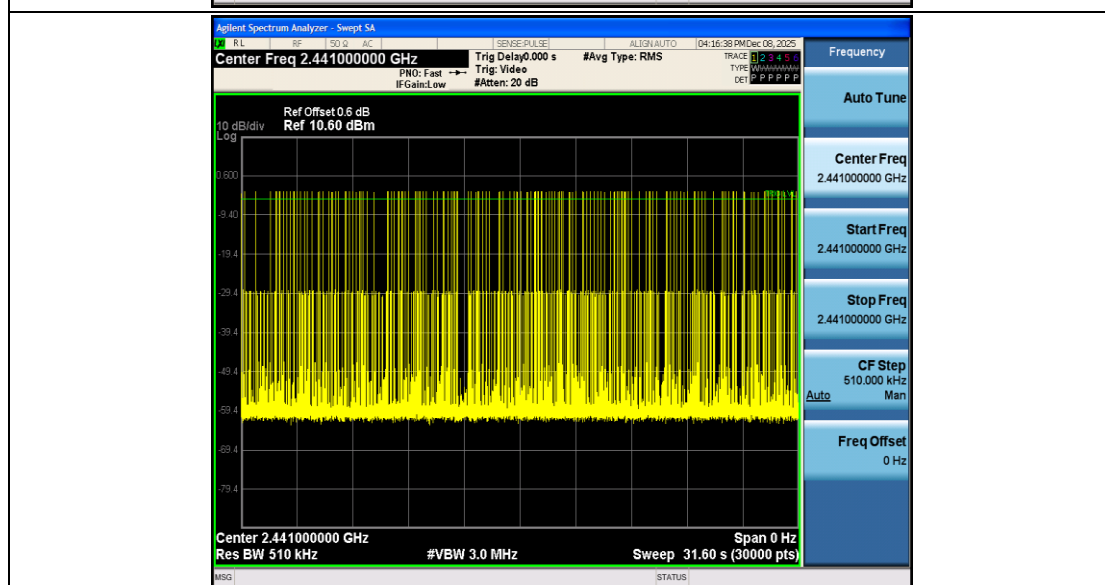




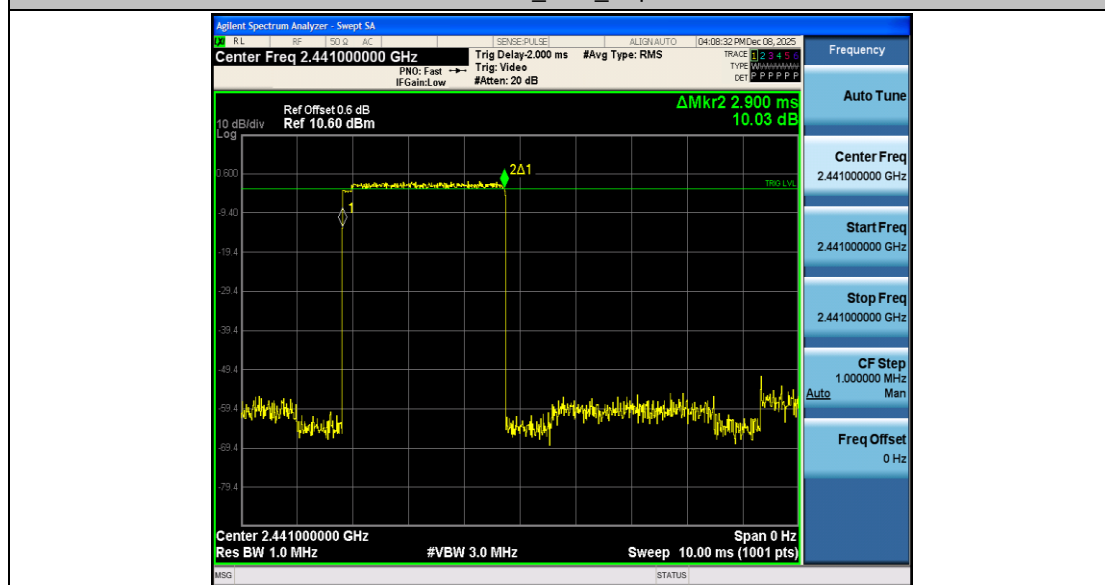
3DH1_Ant1_Hop

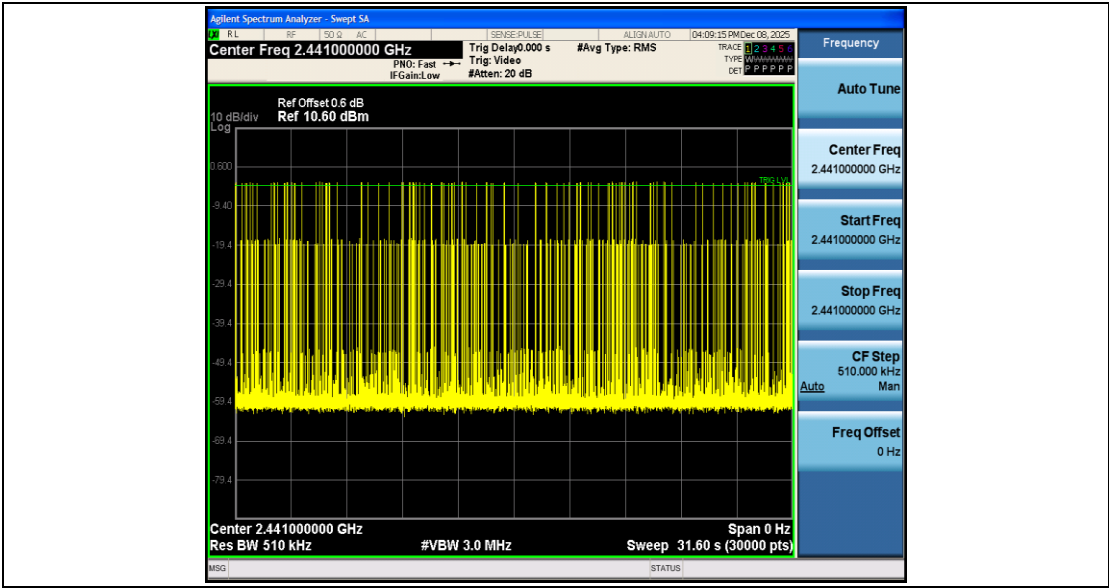


3DH3_Ant1_Hop



3DH5_Ant1_Hop



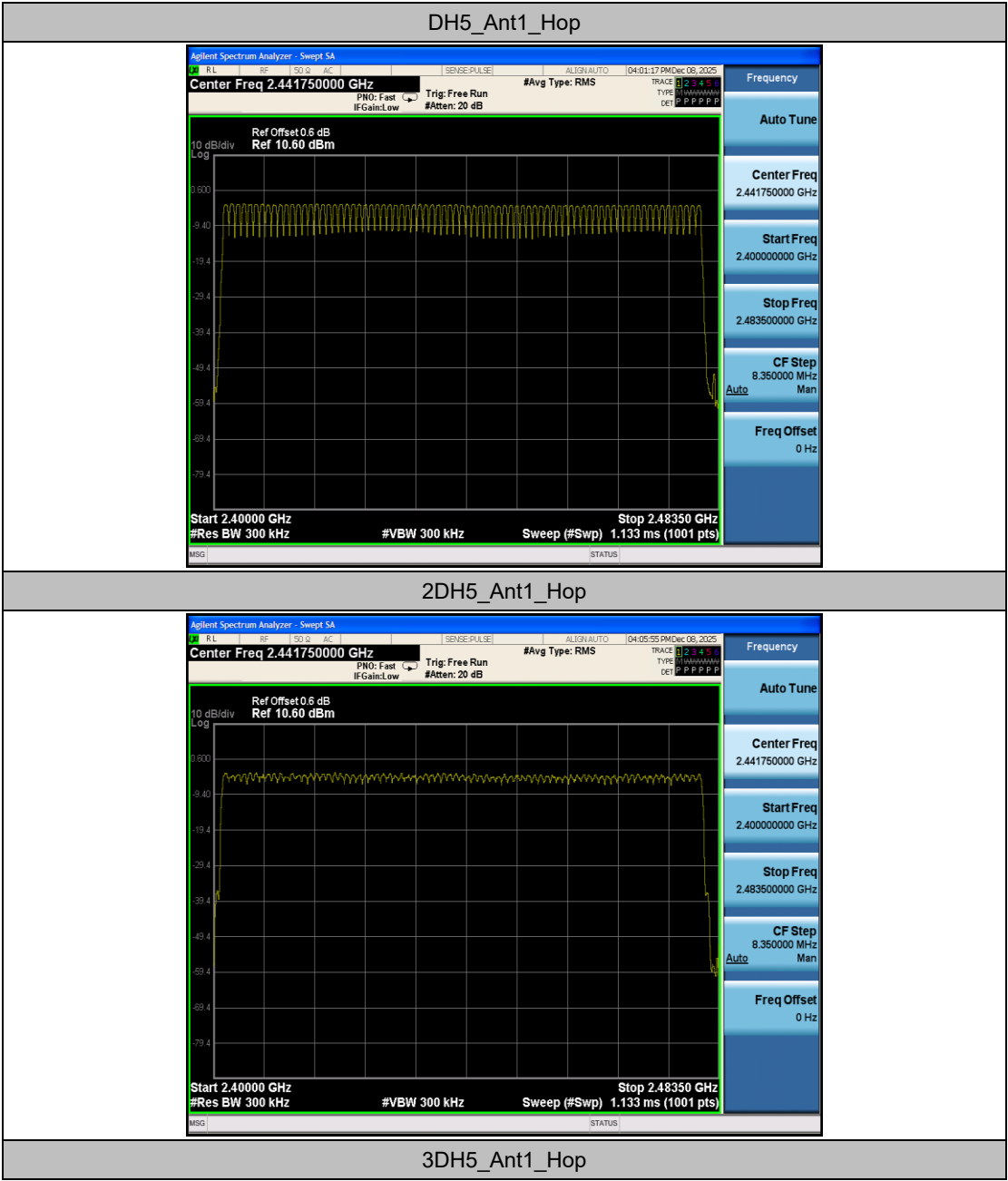


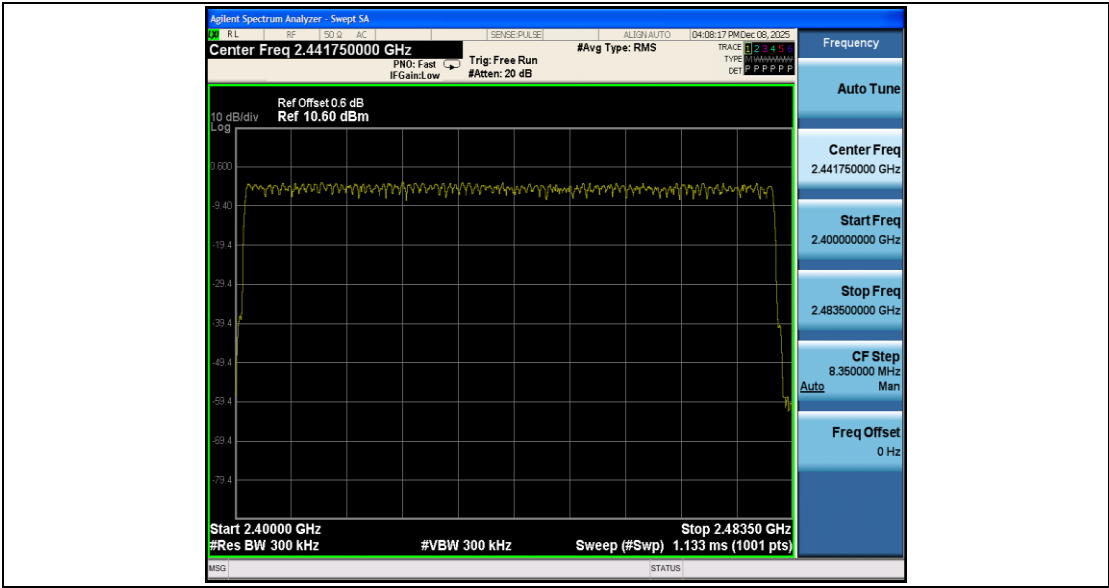
Appendix F: Number of hopping channels

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



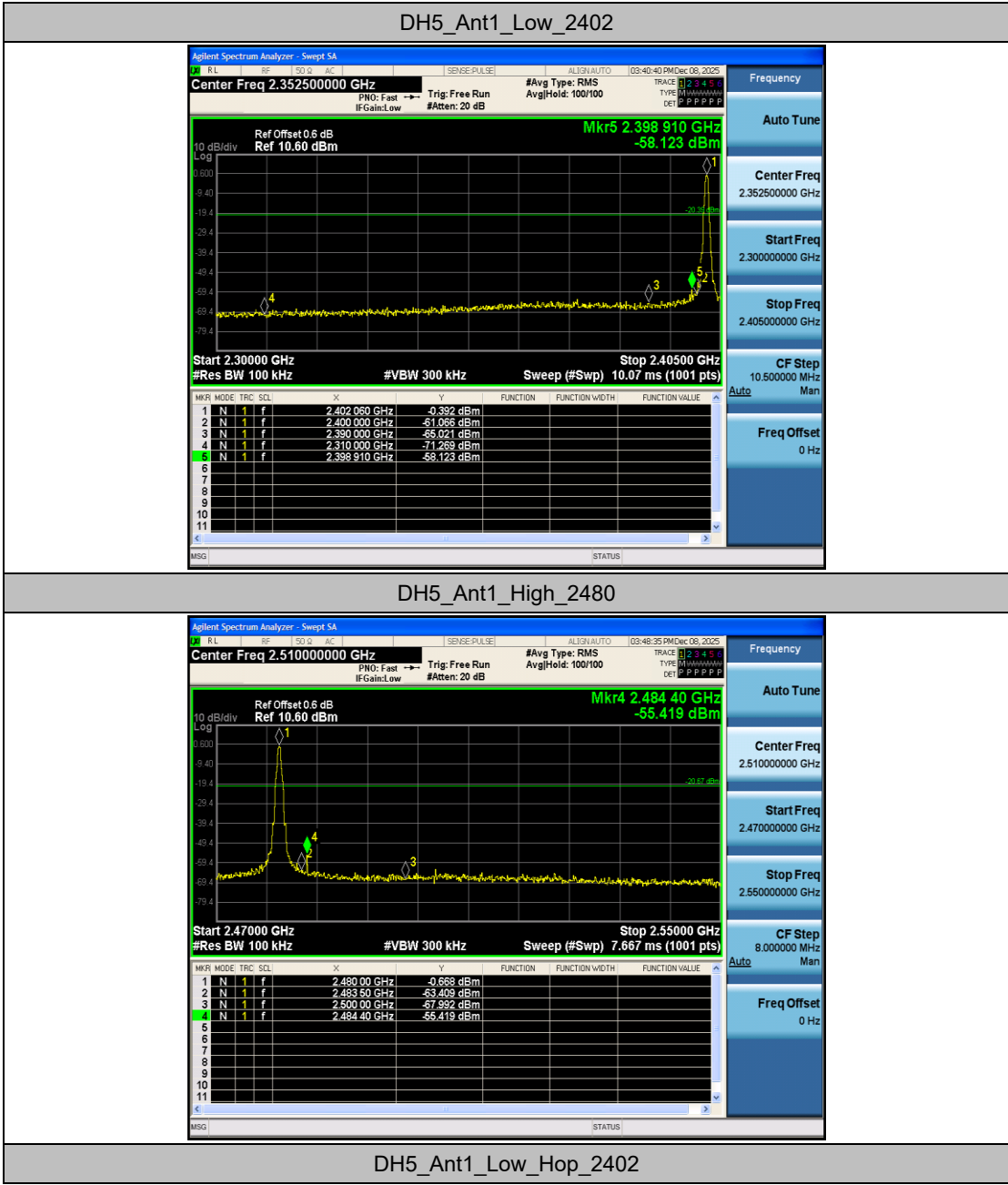


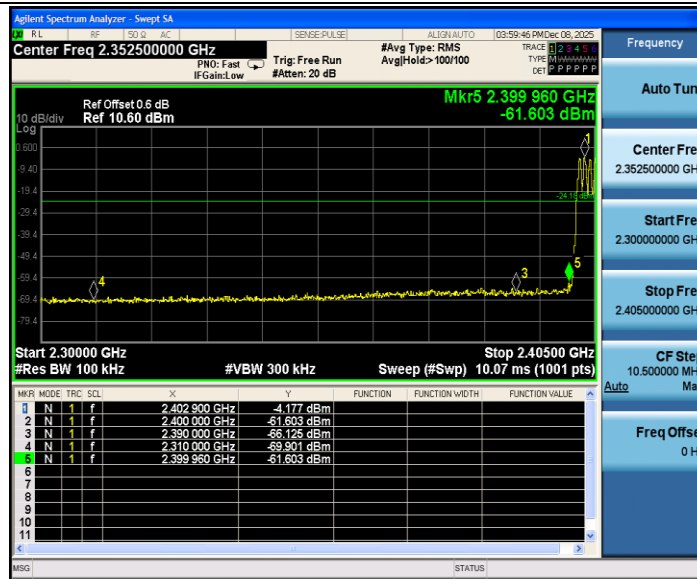
Appendix G: Band edge measurements

Test Result

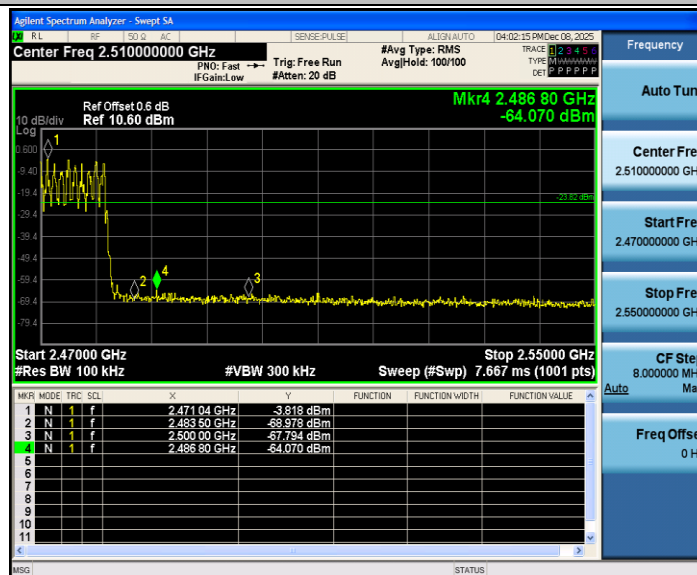
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.39	-58.12	≤-20.39	PASS
		High	2480	-0.67	-55.42	≤-20.67	PASS
		Low	Hop_2402	-4.18	-61.6	≤-24.18	PASS
		High	Hop_2480	-3.82	-64.07	≤-23.82	PASS
2DH5	Ant1	Low	2402	-3.46	-58.55	≤-23.46	PASS
		High	2480	-5.56	-61.68	≤-25.56	PASS
		Low	Hop_2402	-3.23	-61.67	≤-23.23	PASS
		High	Hop_2480	-3.50	-58.48	≤-23.5	PASS
3DH5	Ant1	Low	2402	-4.66	-60.68	≤-24.66	PASS
		High	2480	-4.30	-56.35	≤-24.3	PASS
		Low	Hop_2402	-4.85	-61.76	≤-24.85	PASS
		High	Hop_2480	-4.31	-64.01	≤-24.31	PASS

Test Graphs

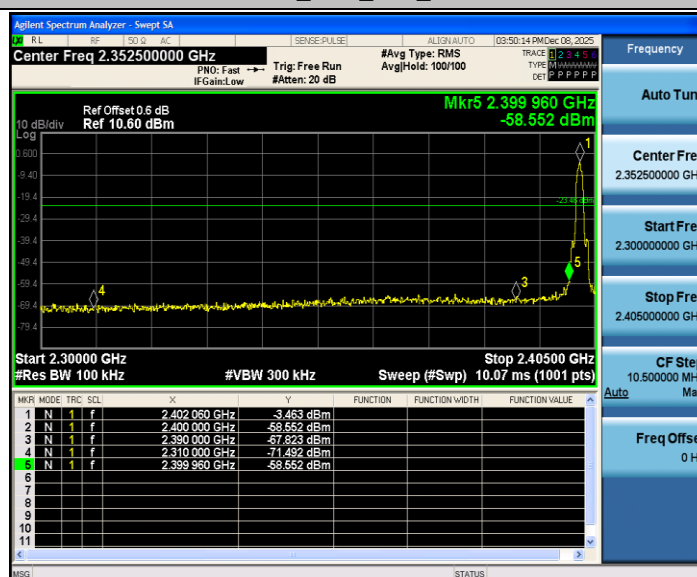




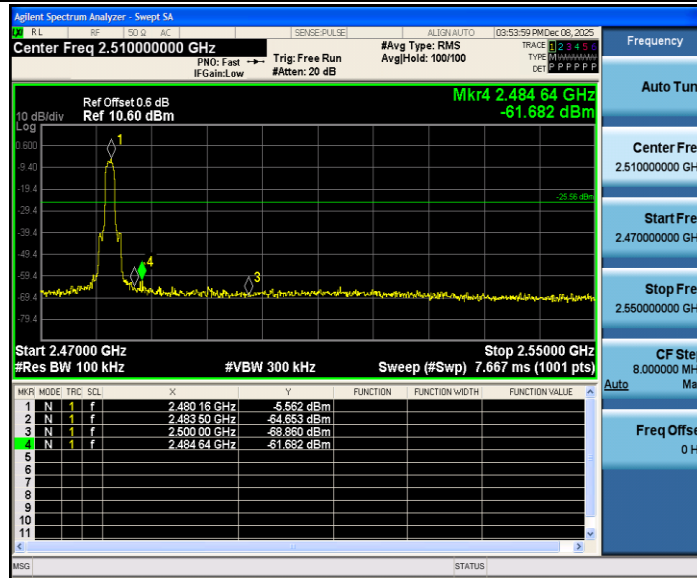
DH5_Ant1_High_Hop_2480



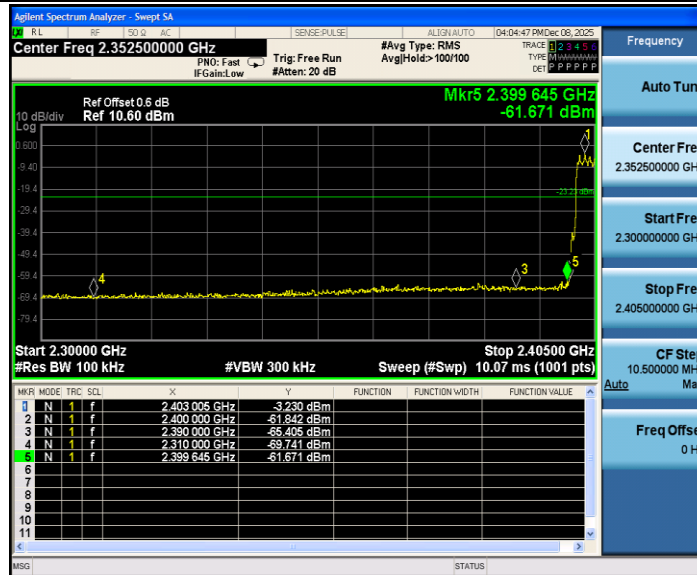
2DH5_Ant1_Low_2402



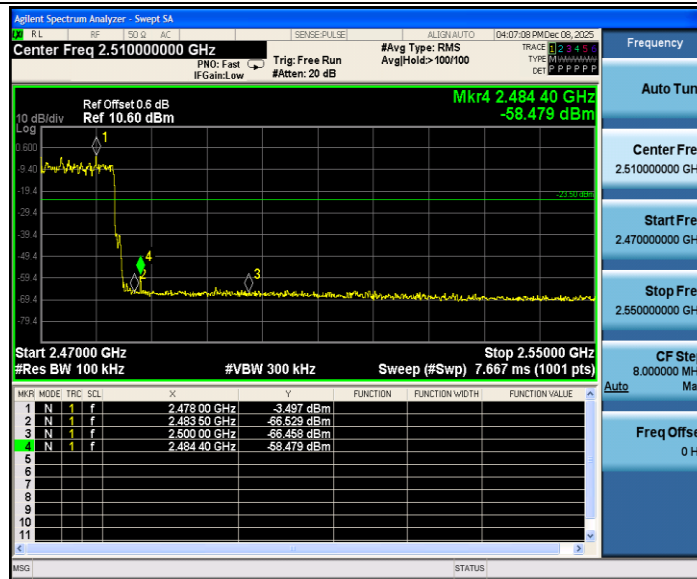
2DH5_Ant1_High_2480



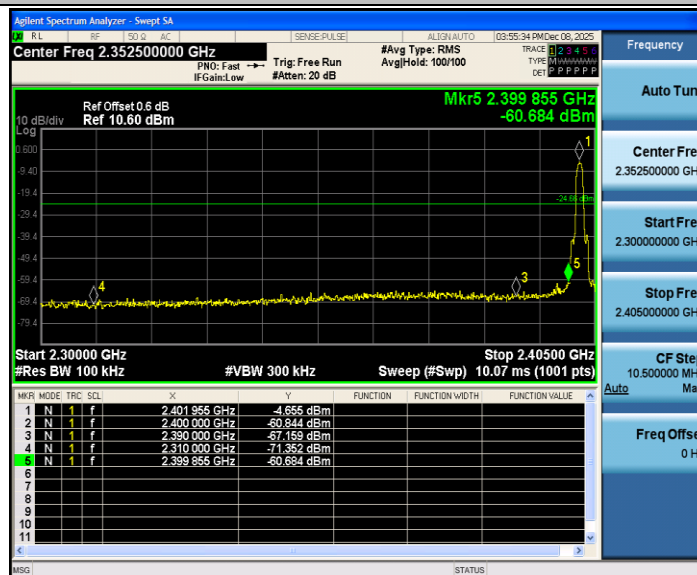
2DH5_Ant1_Low_Hop_2402



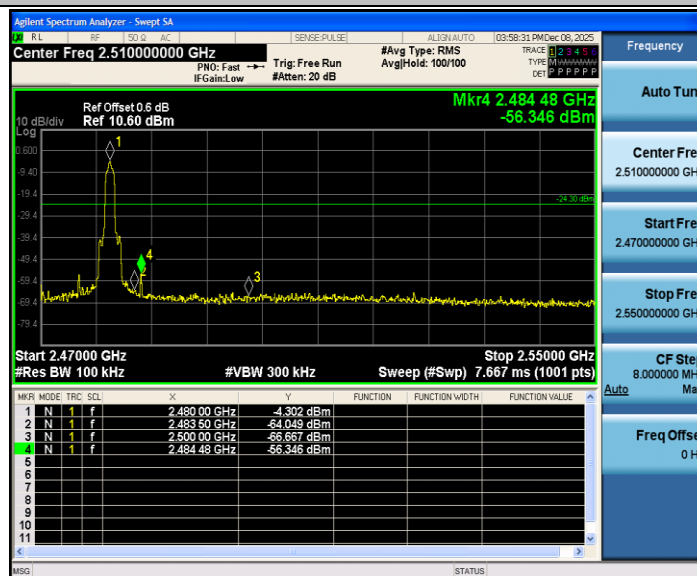
2DH5_Ant1_High_Hop_2480



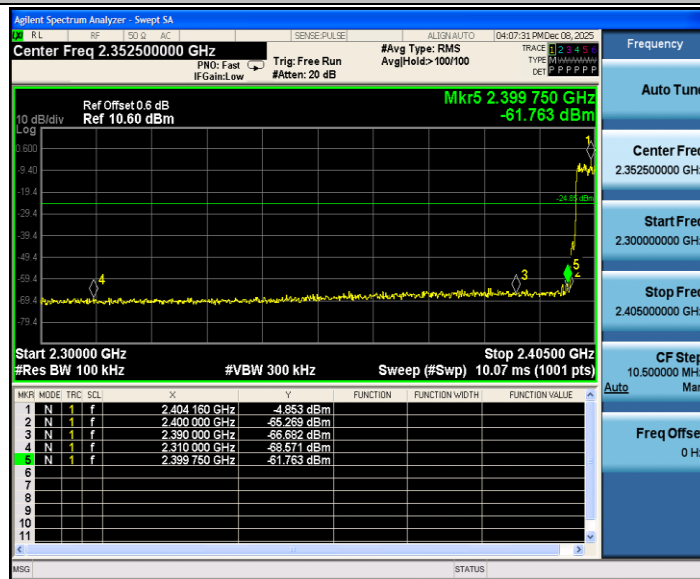
3DH5_Ant1_Low_2402



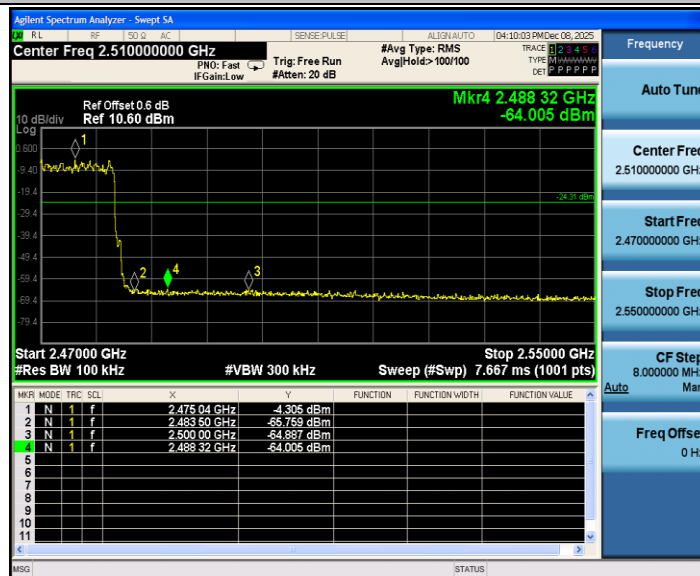
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

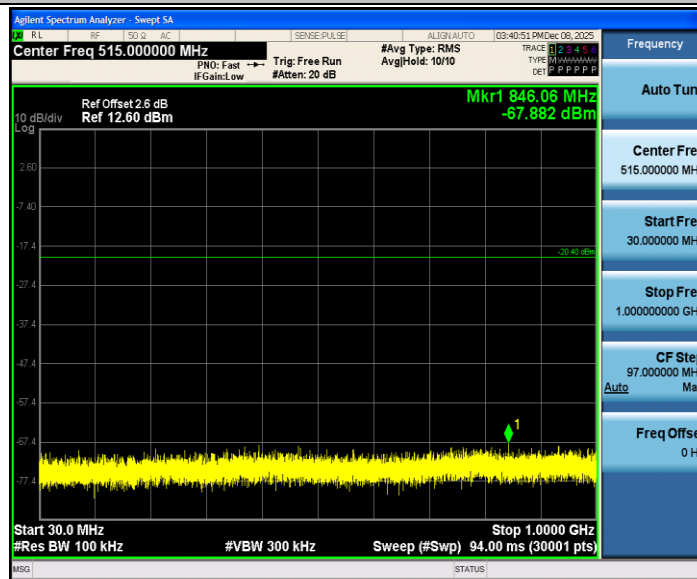
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.40	-0.40	---	PASS
			30~1000	-0.40	-67.88	≤-20.4	PASS
			1000~26500	-0.40	-42.32	≤-20.4	PASS
		2441	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-67.37	≤-20.96	PASS
			1000~26500	-0.96	-43.68	≤-20.96	PASS
		2480	Reference	-1.13	-1.13	---	PASS
			30~1000	-1.13	-67.9	≤-21.13	PASS
			1000~26500	-1.13	-44.04	≤-21.13	PASS
2DH5	Ant1	2402	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-65.66	≤-25.47	PASS
			1000~26500	-5.47	-49.35	≤-25.47	PASS
		2441	Reference	-5.23	-5.23	---	PASS
			30~1000	-5.23	-62.75	≤-25.23	PASS
			1000~26500	-5.23	-46.76	≤-25.23	PASS
		2480	Reference	-3.72	-3.72	---	PASS
			30~1000	-3.72	-66.2	≤-23.72	PASS
			1000~26500	-3.72	-49.11	≤-23.72	PASS
3DH5	Ant1	2402	Reference	-4.82	-4.82	---	PASS
			30~1000	-4.82	-67.42	≤-24.82	PASS
			1000~26500	-4.82	-49.63	≤-24.82	PASS
		2441	Reference	-6.74	-6.74	---	PASS
			30~1000	-6.74	-67.08	≤-26.74	PASS
			1000~26500	-6.74	-48.72	≤-26.74	PASS
		2480	Reference	-5.00	-5.00	---	PASS
			30~1000	-5.00	-68.11	≤-25	PASS
			1000~26500	-5.00	-47.98	≤-25	PASS

Test Graphs

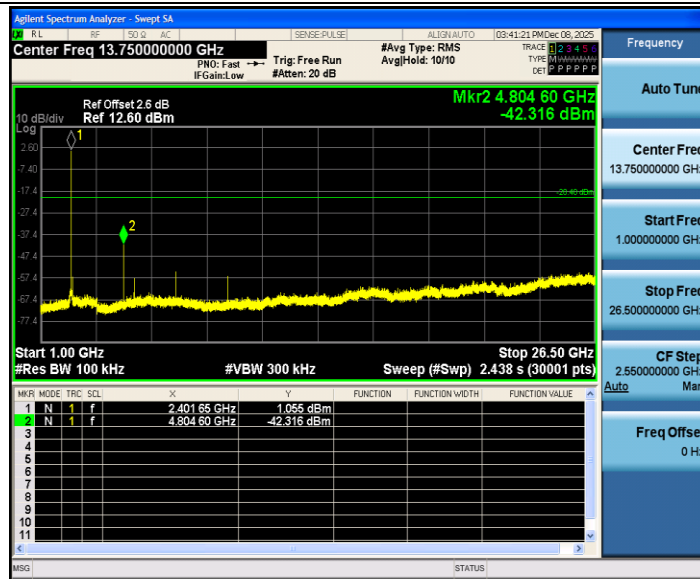
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

