

FCC Appendix RF Test Data for BT

FCC ID : 2BTV4-RFB232SBINTND

Company : Jeddy Ventures Limited Liability Company

EUT : Serial to Bluetooth SPP/BLE Converter, internal
antenna,No DIN

Model Number : RF-B-232-SB-INT-ND

Report No. : CTA25112802402

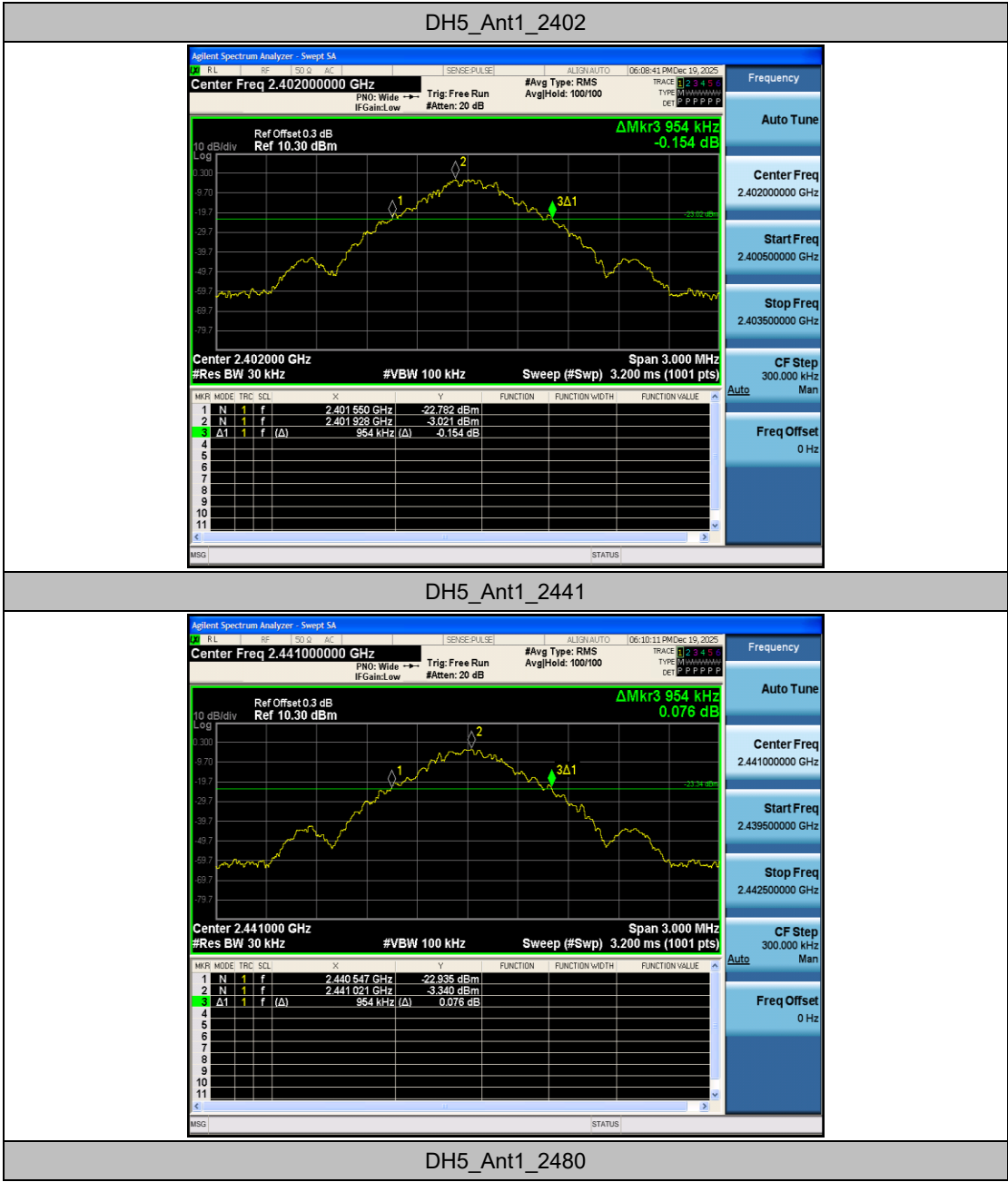
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.550	2402.504	---	---
		2441	0.954	2440.547	2441.501	---	---
		2480	0.948	2479.550	2480.498	---	---
2DH5	Ant1	2402	1.281	2401.379	2402.660	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.338	2479.340	2480.678	---	---
3DH5	Ant1	2402	1.272	2401.385	2402.657	---	---
		2441	1.320	2440.346	2441.666	---	---
		2480	1.317	2479.349	2480.666	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

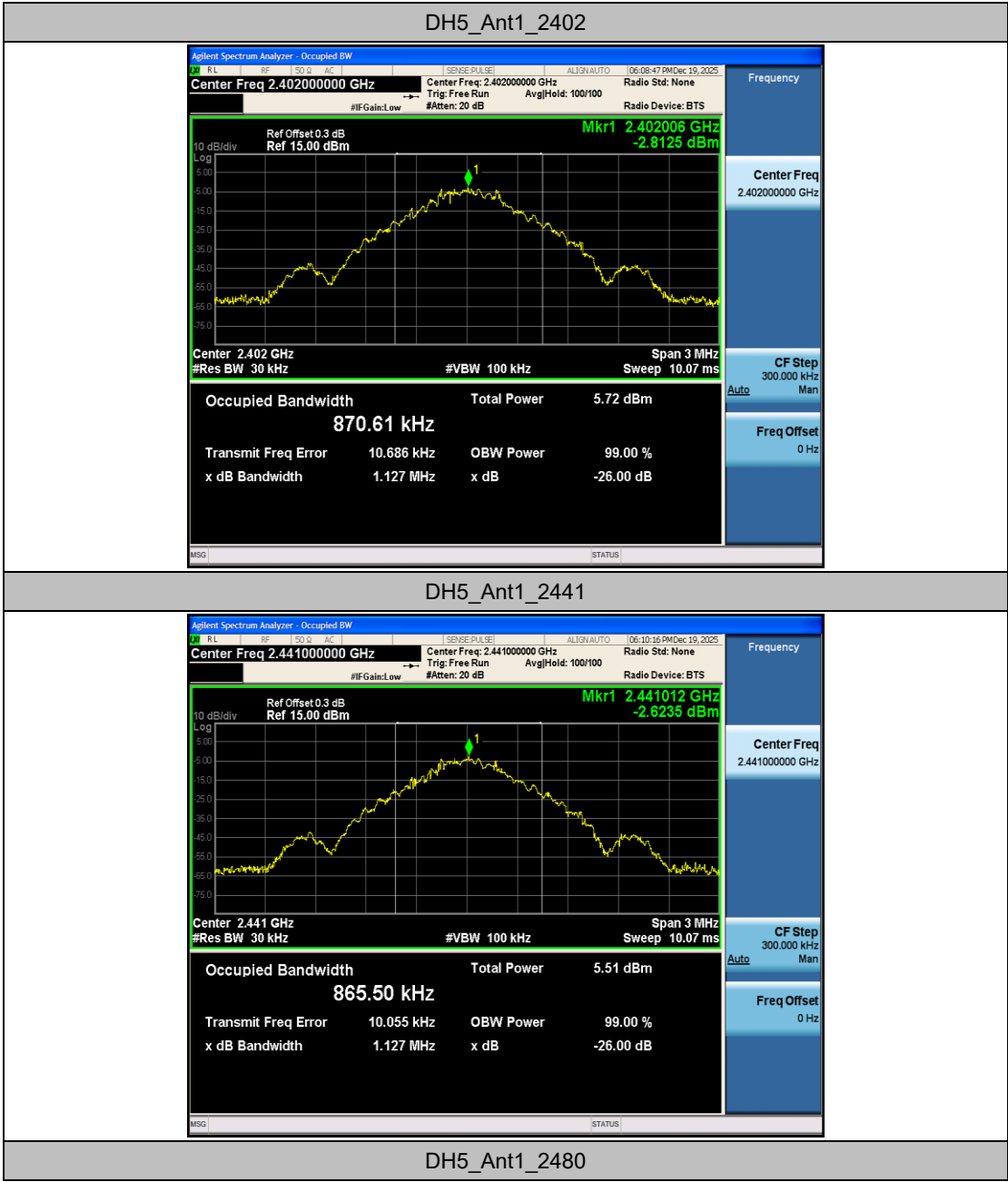


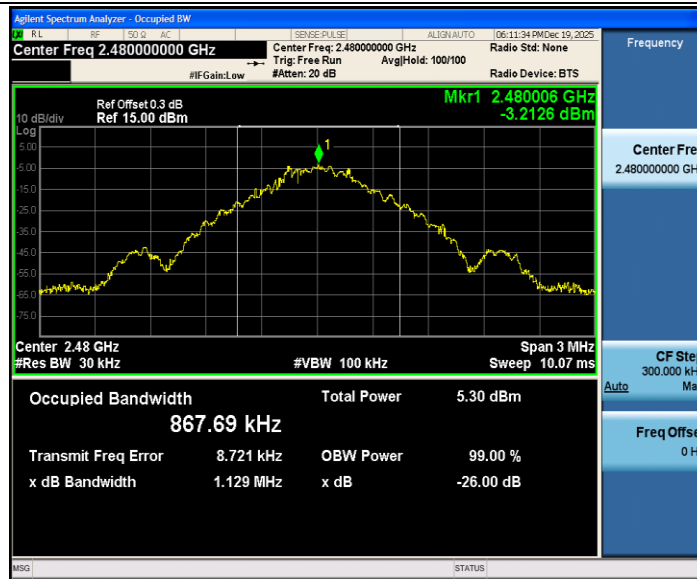
Appendix B: Occupied Channel Bandwidth

Test Result

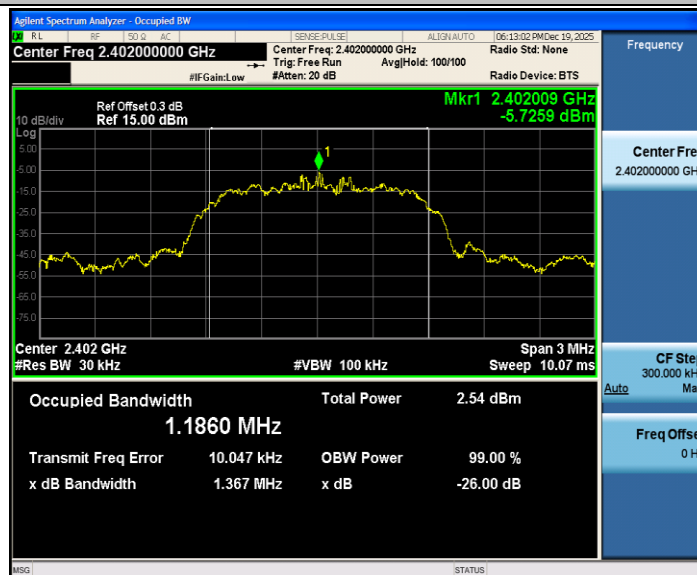
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87061	2401.5754	2402.4460	---	---
		2441	0.86550	2440.5773	2441.4428	---	---
		2480	0.86769	2479.5749	2480.4426	---	---
2DH5	Ant1	2402	1.1860	2401.4171	2402.6031	---	---
		2441	1.1904	2440.4151	2441.6055	---	---
		2480	1.1892	2479.4162	2480.6054	---	---
3DH5	Ant1	2402	1.1817	2401.4192	2402.6009	---	---
		2441	1.1882	2440.4170	2441.6052	---	---
		2480	1.1910	2479.4160	2480.6070	---	---

Test Graphs

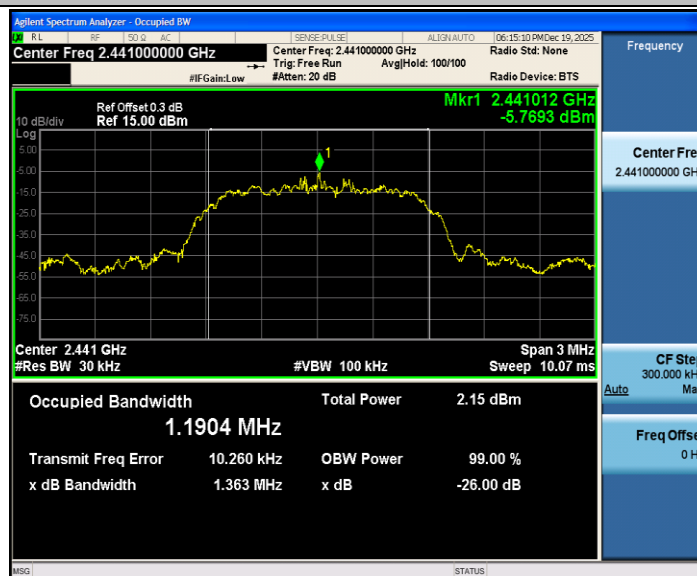




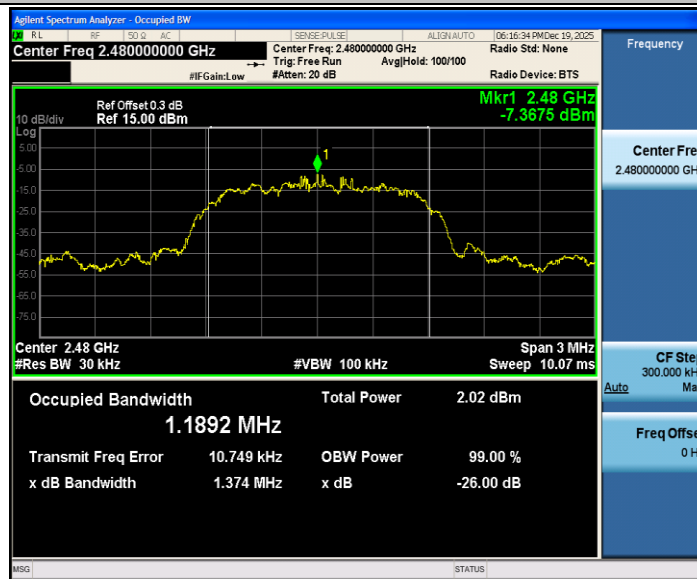
2DH5_Ant1_2402



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	-0.25	≤20.97	PASS
		2441	-0.49	≤20.97	PASS
		2480	-0.56	≤20.97	PASS
2DH5	Ant1	2402	-1.05	≤20.97	PASS
		2441	-1.27	≤20.97	PASS
		2480	-1.39	≤20.97	PASS
3DH5	Ant1	2402	-1.10	≤20.97	PASS
		2441	-1.27	≤20.97	PASS
		2480	-1.43	≤20.97	PASS

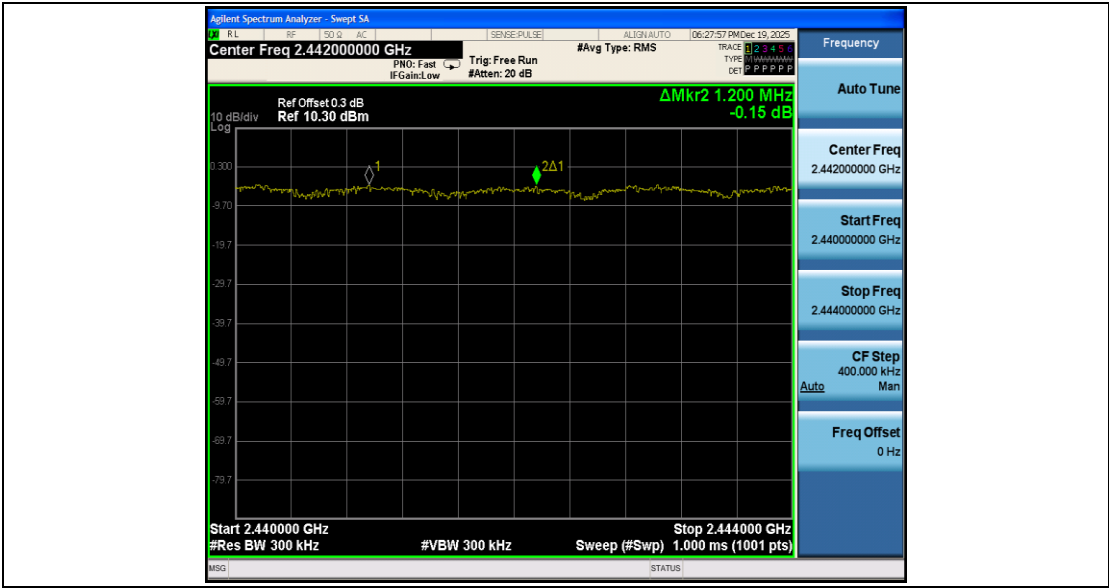
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.028	≥ 0.954	PASS
2DH5	Ant1	Hop	1.06	≥ 0.892	PASS
3DH5	Ant1	Hop	1.2	≥ 0.880	PASS

Test Graphs



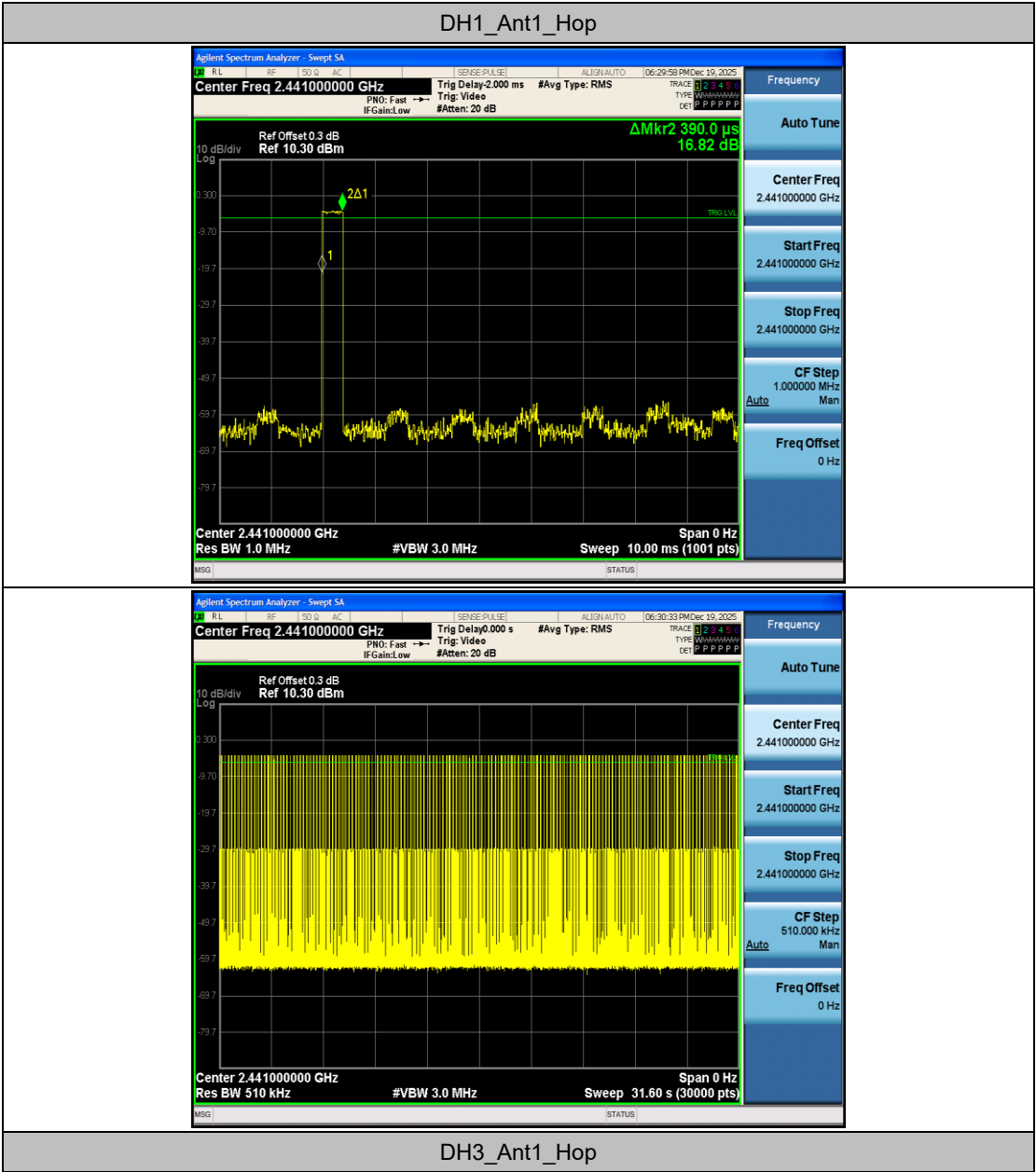


Appendix E: Time of occupancy

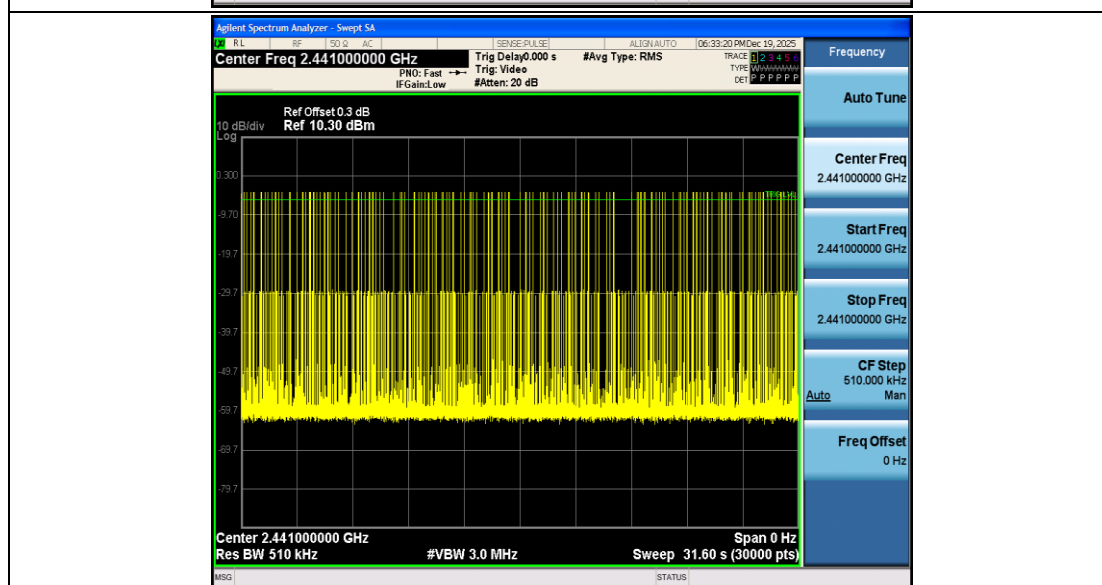
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	163	0.267	≤0.4	PASS
DH5	Ant1	Hop	2.890	108	0.312	≤0.4	PASS
2DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.650	159	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.890	97	0.28	≤0.4	PASS
3DH1	Ant1	Hop	0.390	314	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.650	150	0.248	≤0.4	PASS
3DH5	Ant1	Hop	2.900	116	0.336	≤0.4	PASS

Test Graphs

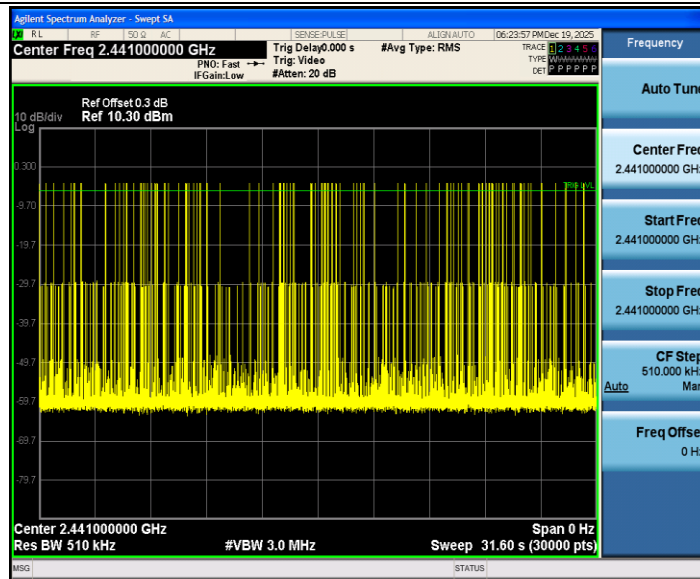


DH3_Ant1_Hop

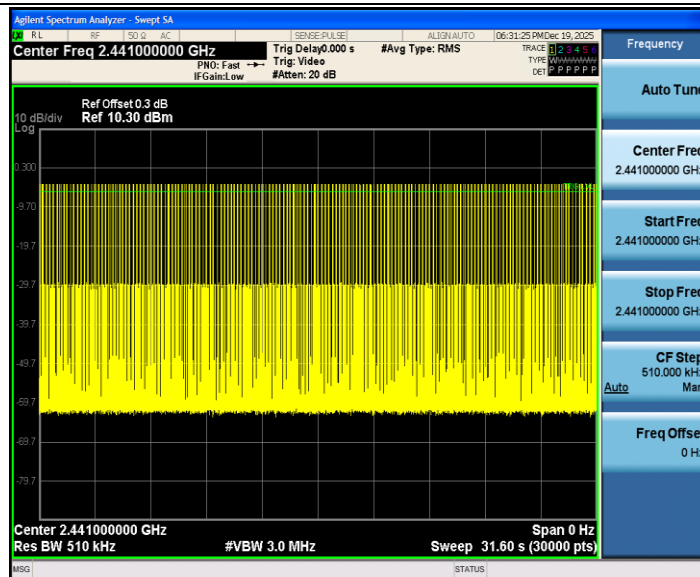
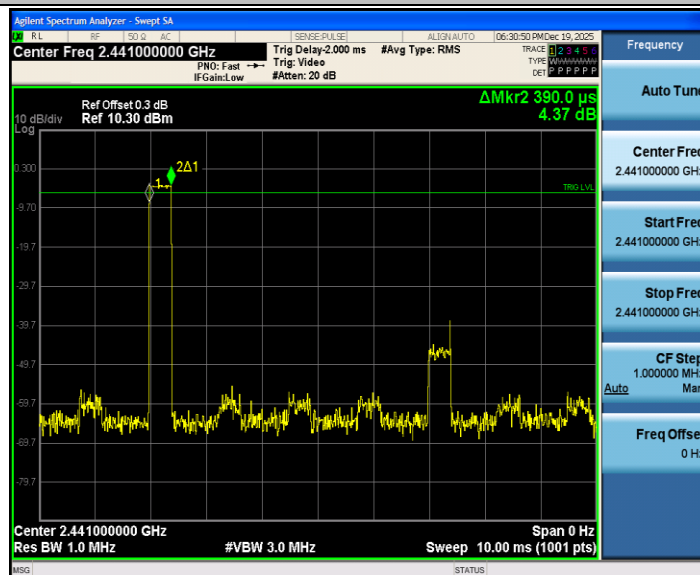


DH5_Ant1_Hop

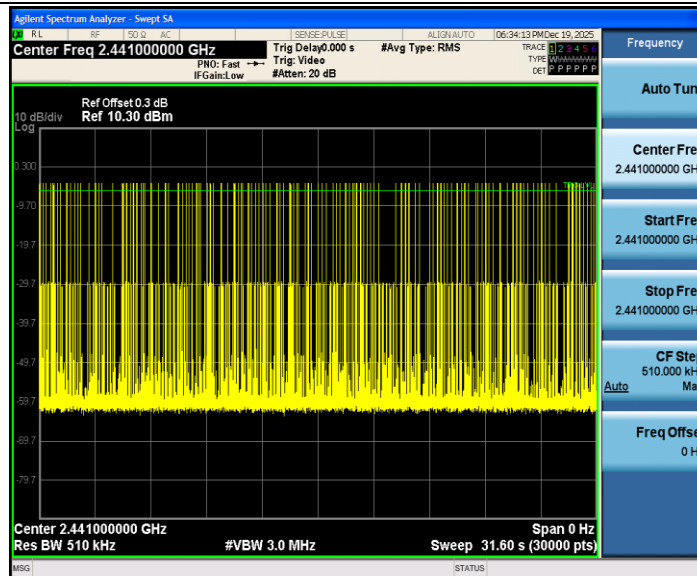




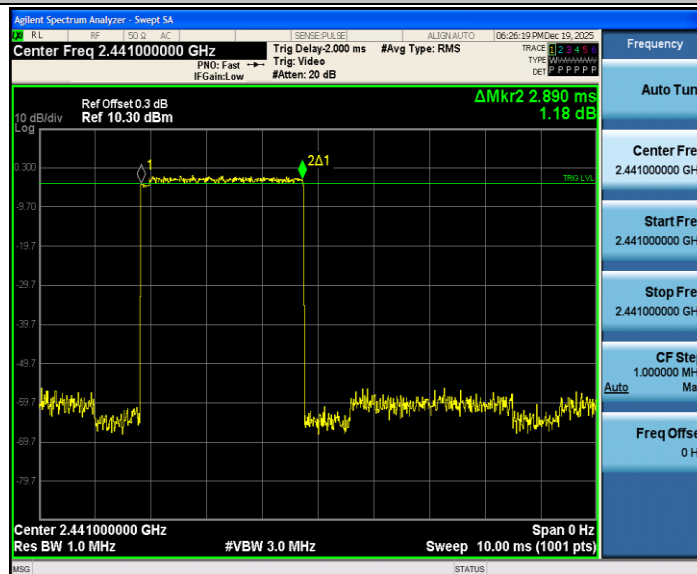
2DH1_Ant1_Hop

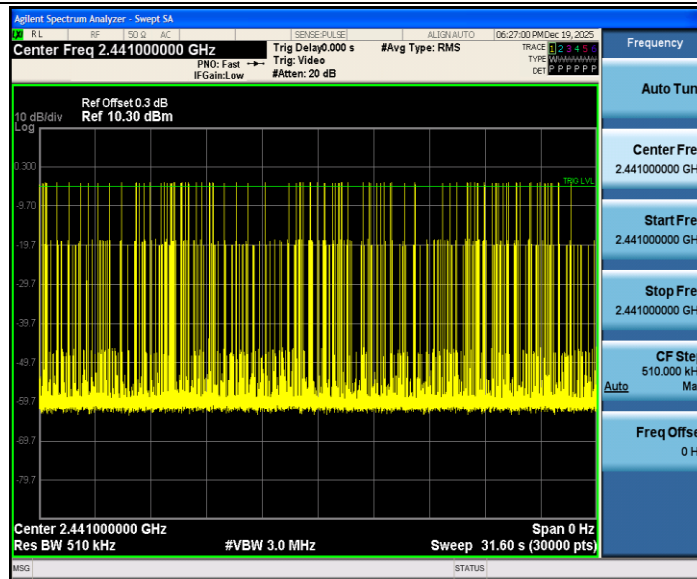


2DH3_Ant1_Hop

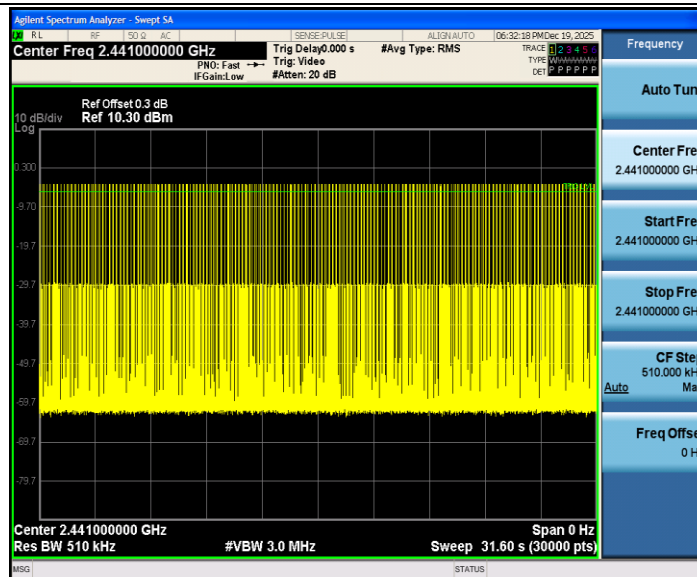
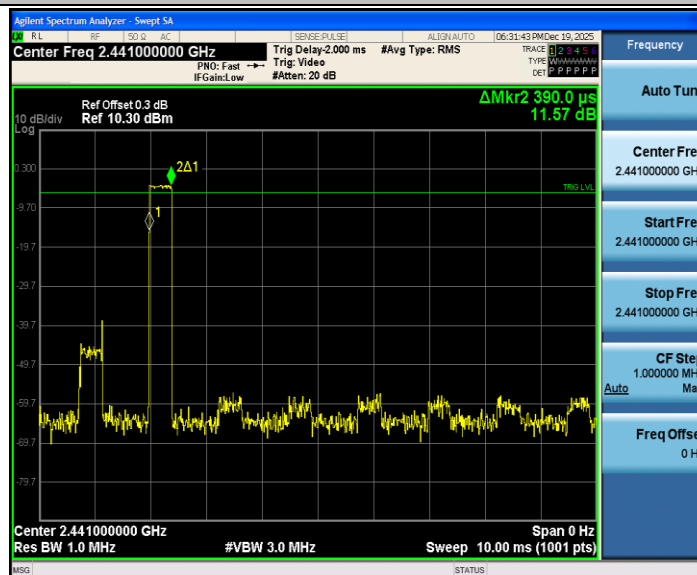


2DH5_Ant1_Hop

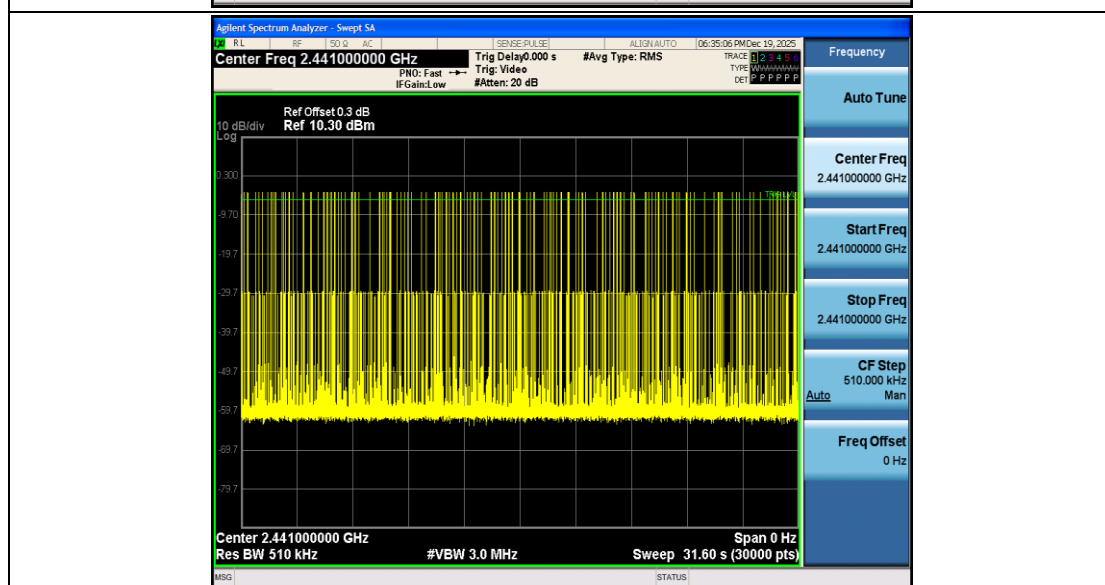




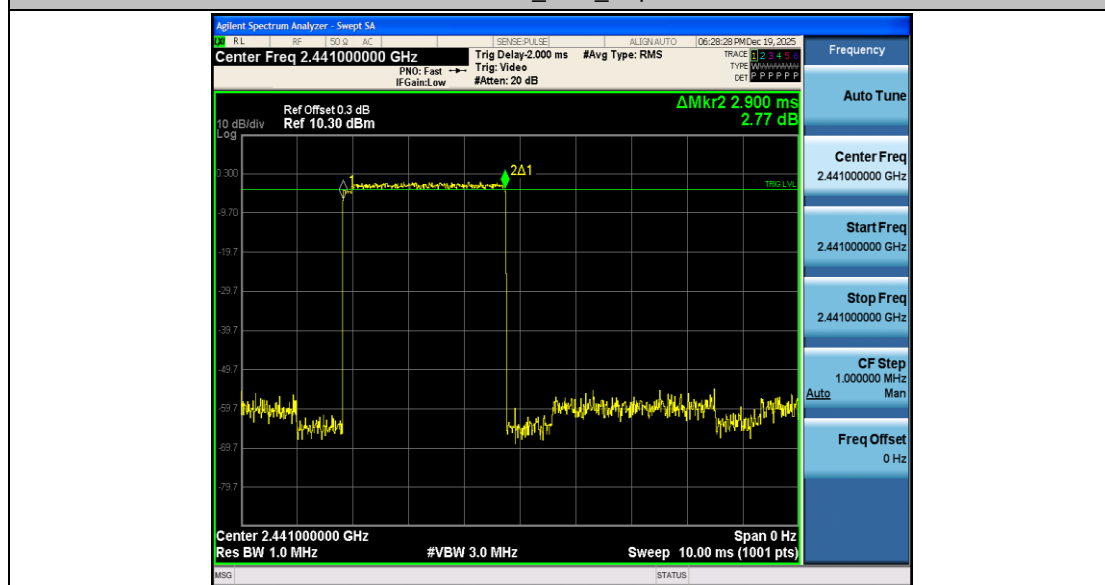
3DH1_Ant1_Hop

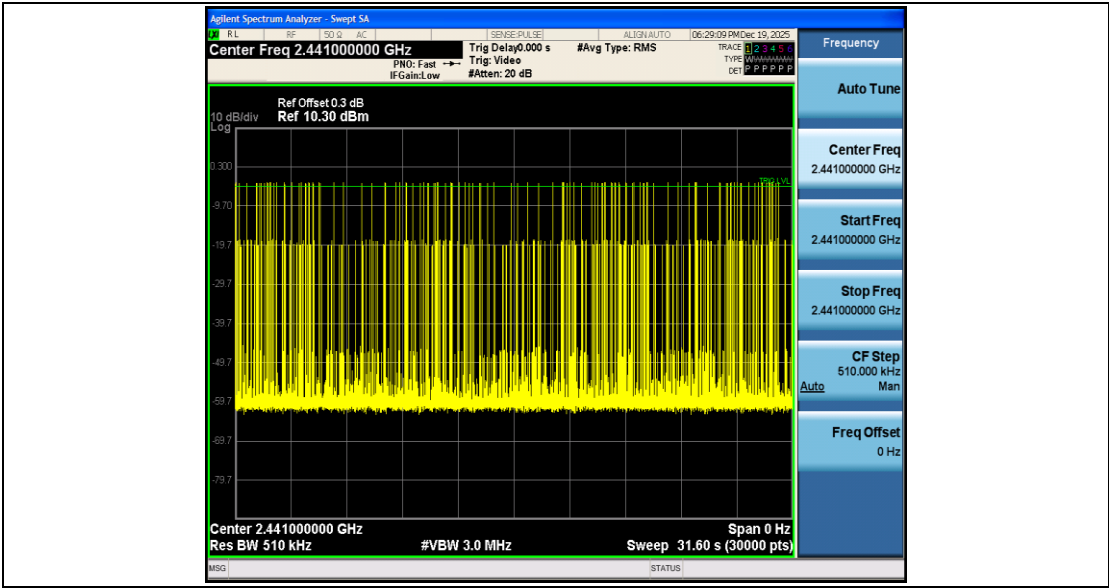


3DH3_Ant1_Hop



3DH5_Ant1_Hop





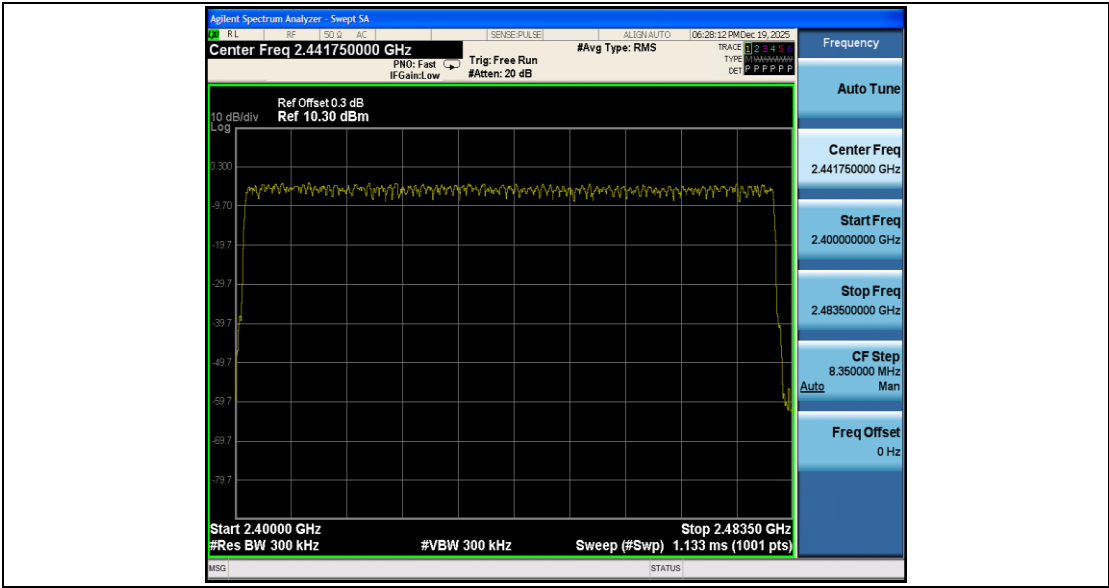
Appendix F: Number of hopping channels

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



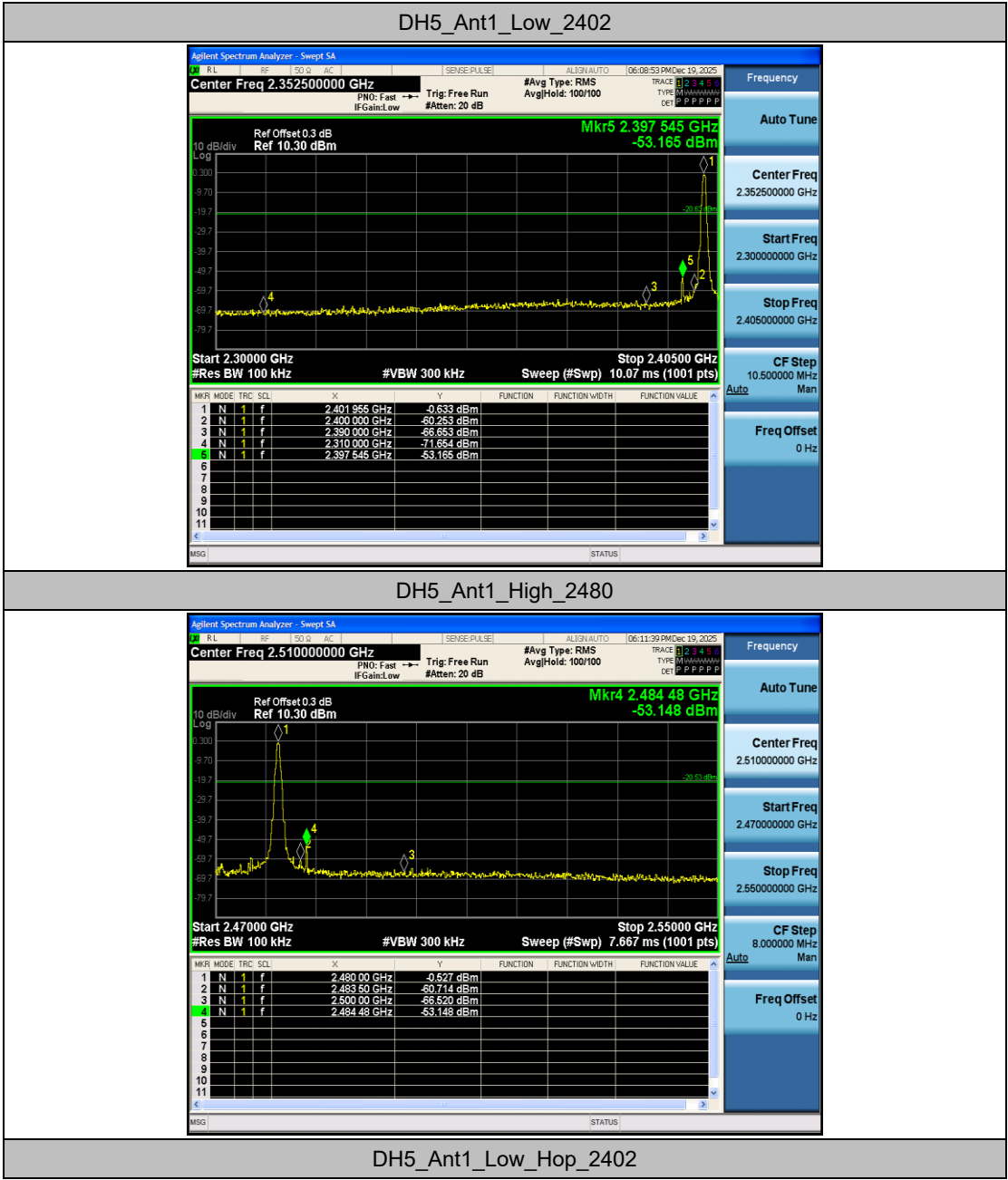


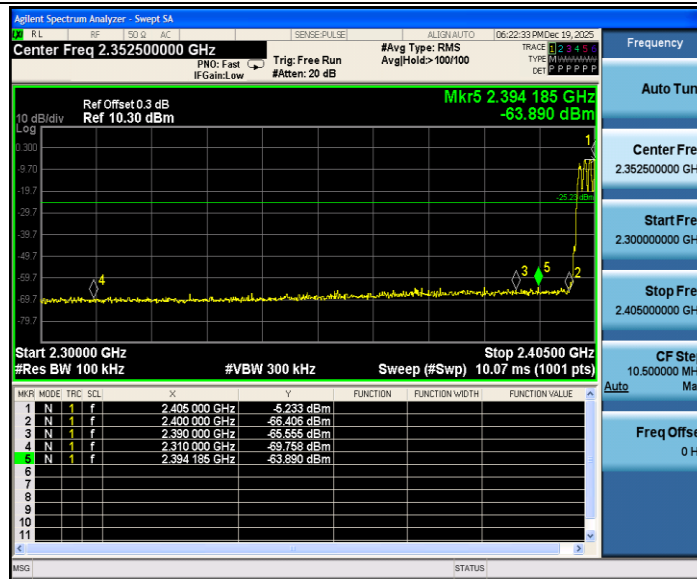
Appendix G: Band edge measurements

Test Result

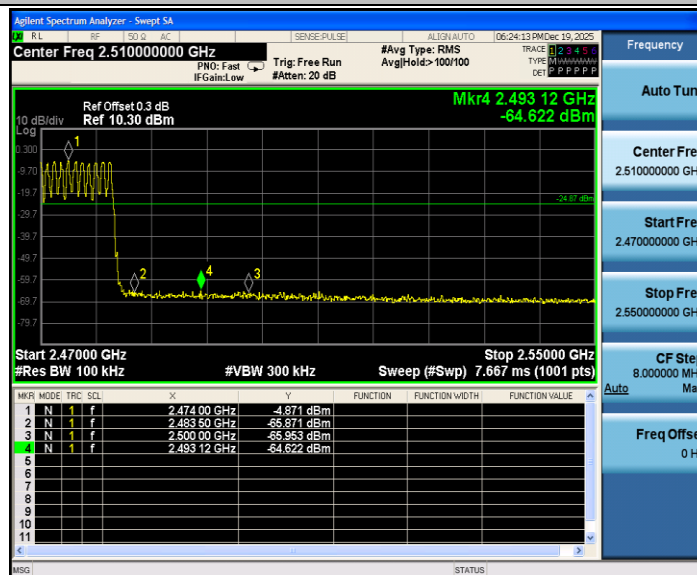
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.63	-53.17	≤-20.63	PASS
		High	2480	-0.53	-53.15	≤-20.53	PASS
		Low	Hop_2402	-5.23	-63.89	≤-25.23	PASS
		High	Hop_2480	-4.87	-64.62	≤-24.87	PASS
2DH5	Ant1	Low	2402	-3.86	-59.49	≤-23.86	PASS
		High	2480	-4.09	-64.33	≤-24.09	PASS
		Low	Hop_2402	-4.63	-63.01	≤-24.63	PASS
		High	Hop_2480	-4.18	-63.93	≤-24.18	PASS
3DH5	Ant1	Low	2402	-4.79	-61.86	≤-24.79	PASS
		High	2480	-4.73	-59.46	≤-24.73	PASS
		Low	Hop_2402	-5.18	-61.44	≤-25.18	PASS
		High	Hop_2480	-5.89	-60.15	≤-25.89	PASS

Test Graphs

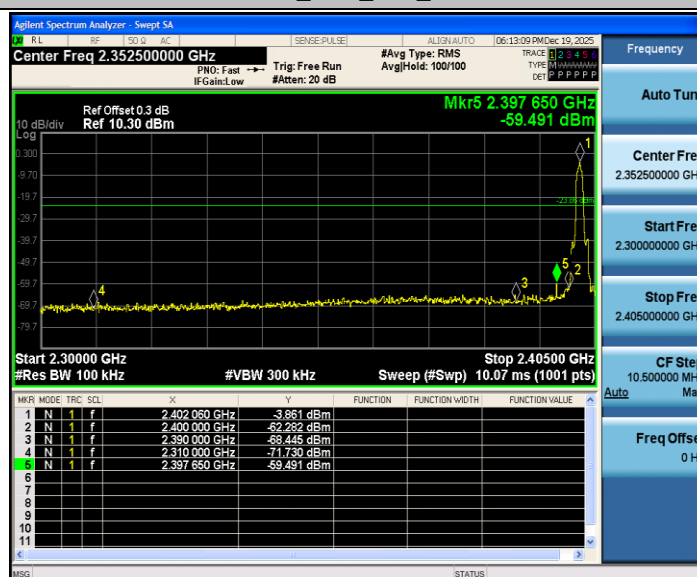




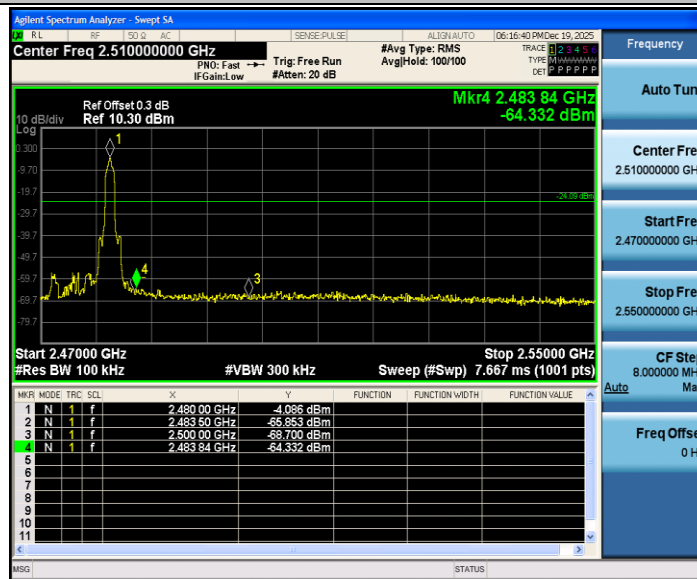
DH5_Ant1_High_Hop_2480



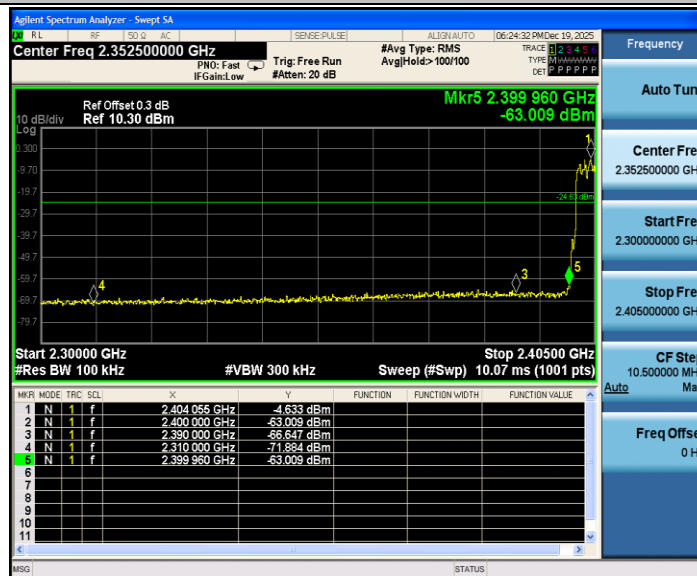
2DH5_Ant1_Low_2402



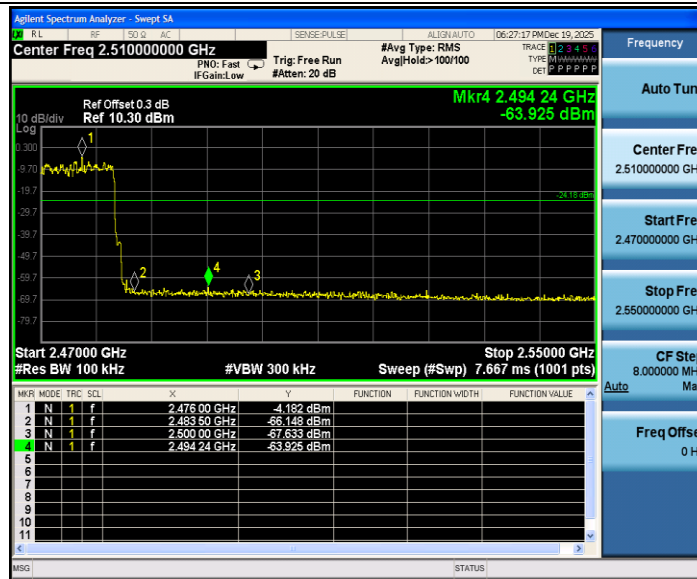
2DH5_Ant1_High_2480



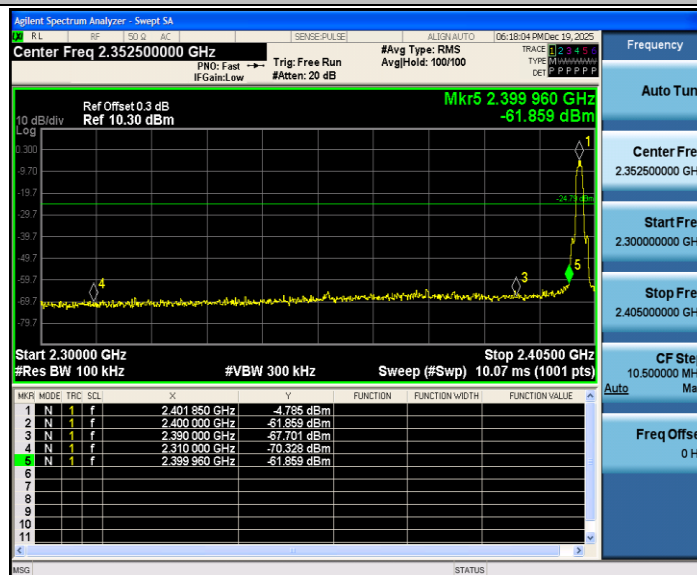
2DH5_Ant1_Low_Hop_2402



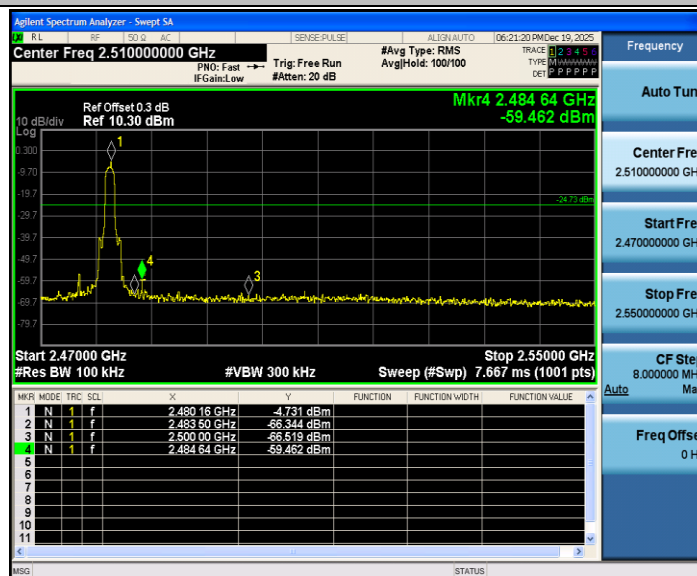
2DH5_Ant1_High_Hop_2480



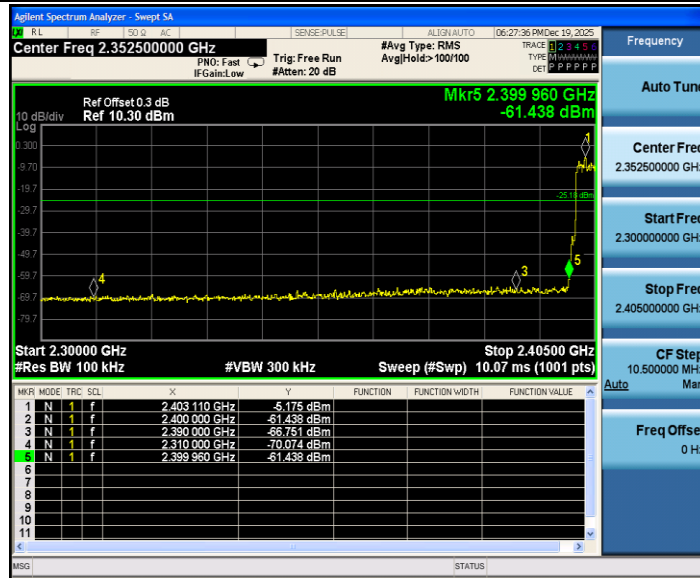
3DH5_Ant1_Low_2402



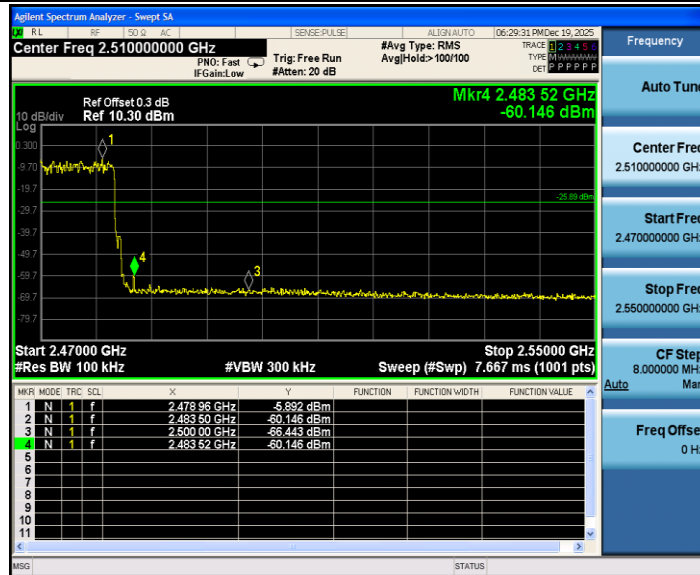
3DH5_Ant1_High_2480



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	-1.30	-1.30	---	PASS
			30~1000	-1.30	-68.39	≤-21.3	PASS
			1000~26500	-1.30	-41.56	≤-21.3	PASS
		2441	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-68.55	≤-21.48	PASS
			1000~26500	-1.48	-42.8	≤-21.48	PASS
		2480	Reference	-1.58	-1.58	---	PASS
			30~1000	-1.58	-65.91	≤-21.58	PASS
			1000~26500	-1.58	-44.16	≤-21.58	PASS
2DH5	Ant1	2402	Reference	-5.20	-5.20	---	PASS
			30~1000	-5.20	-68.24	≤-25.2	PASS
			1000~26500	-5.20	-47.45	≤-25.2	PASS
		2441	Reference	-6.24	-6.24	---	PASS
			30~1000	-6.24	-67.71	≤-26.24	PASS
			1000~26500	-6.24	-49.33	≤-26.24	PASS
		2480	Reference	-6.11	-6.11	---	PASS
			30~1000	-6.11	-68.16	≤-26.11	PASS
			1000~26500	-6.11	-48.19	≤-26.11	PASS
3DH5	Ant1	2402	Reference	-5.97	-5.97	---	PASS
			30~1000	-5.97	-68.03	≤-25.97	PASS
			1000~26500	-5.97	-47.93	≤-25.97	PASS
		2441	Reference	-6.37	-6.37	---	PASS
			30~1000	-6.37	-67.82	≤-26.37	PASS
			1000~26500	-6.37	-50.38	≤-26.37	PASS
		2480	Reference	-6.37	-6.37	---	PASS
			30~1000	-6.37	-68.09	≤-26.37	PASS
			1000~26500	-6.37	-50	≤-26.37	PASS