

FCC Appendix RF Test Data for BT

FCC ID : 2BBLH-ISB836B

Company : HONGKONG FOREVER BEST INTERNATIONAL
DEVELOP LIMITED

EUT : Bluetooth Party Speaker

Model Number : ISB836B

Report No. : CTA26091400701

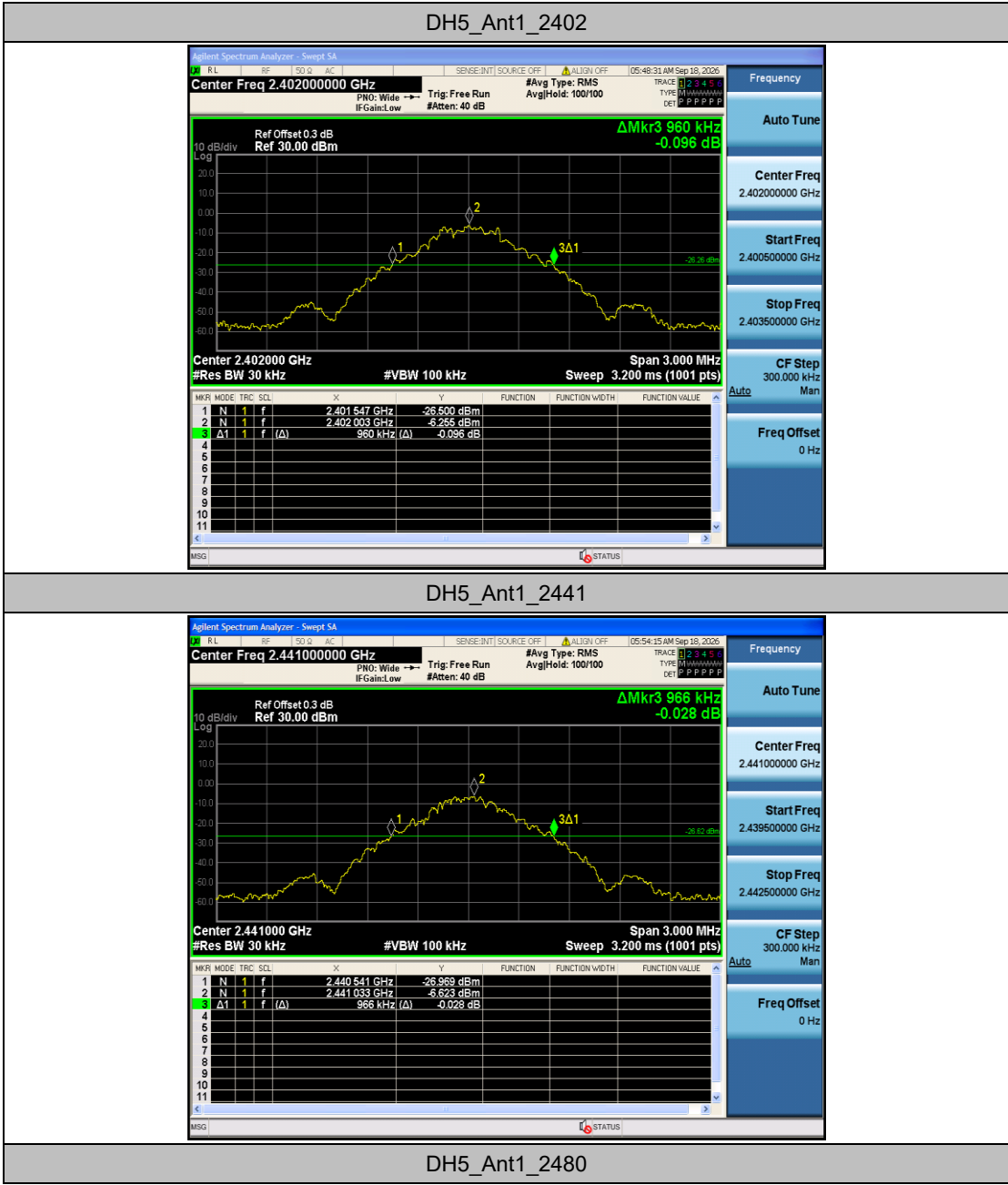
Reviewed By : Eric Wang

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	2401.547	2402.507	---	---
		2441	0.966	2440.541	2441.507	---	---
		2480	0.948	2479.550	2480.498	---	---
2DH5	Ant1	2402	1.302	2401.373	2402.675	---	---
		2441	1.293	2440.379	2441.672	---	---
		2480	1.338	2479.340	2480.678	---	---
3DH5	Ant1	2402	1.308	2401.358	2402.666	---	---
		2441	1.320	2440.355	2441.675	---	---
		2480	1.299	2479.367	2480.666	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

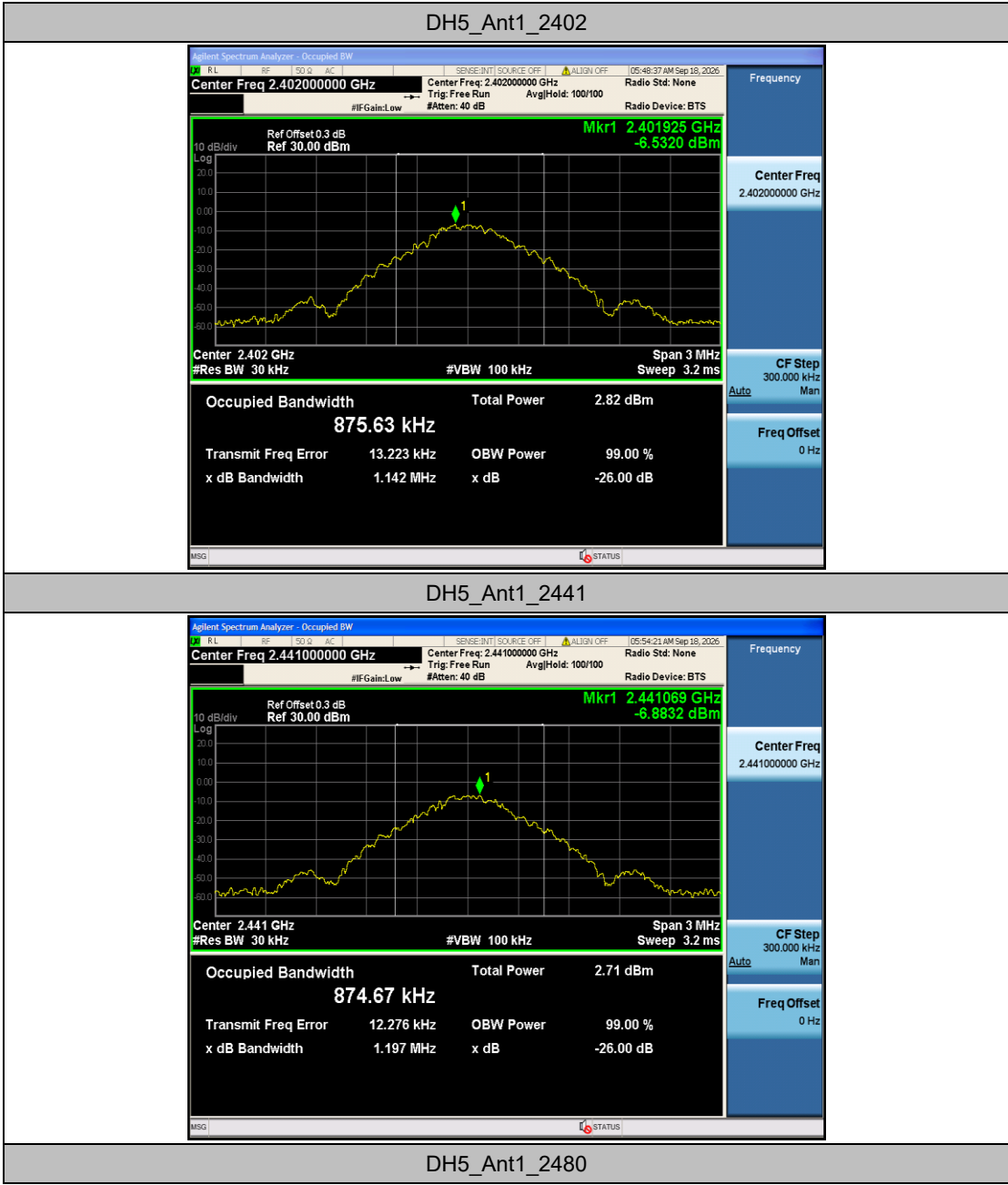


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87563	2401.5754	2402.4510	---	---
		2441	0.87467	2440.5749	2441.4496	---	---
		2480	0.86531	2479.5815	2480.4469	---	---
2DH5	Ant1	2402	1.1963	2401.4143	2402.6106	---	---
		2441	1.1866	2440.4189	2441.6055	---	---
		2480	1.1895	2479.4178	2480.6073	---	---
3DH5	Ant1	2402	1.1852	2401.4231	2402.6083	---	---
		2441	1.1968	2440.4145	2441.6113	---	---
		2480	1.1860	2479.4191	2480.6051	---	---

Test Graphs

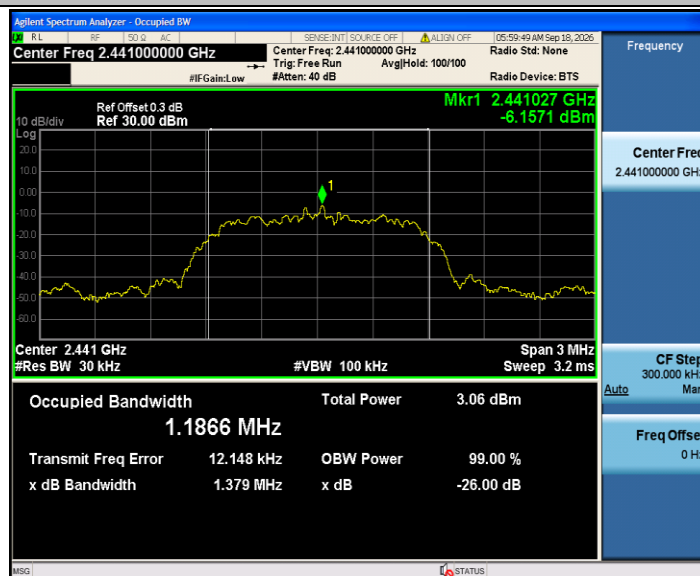




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

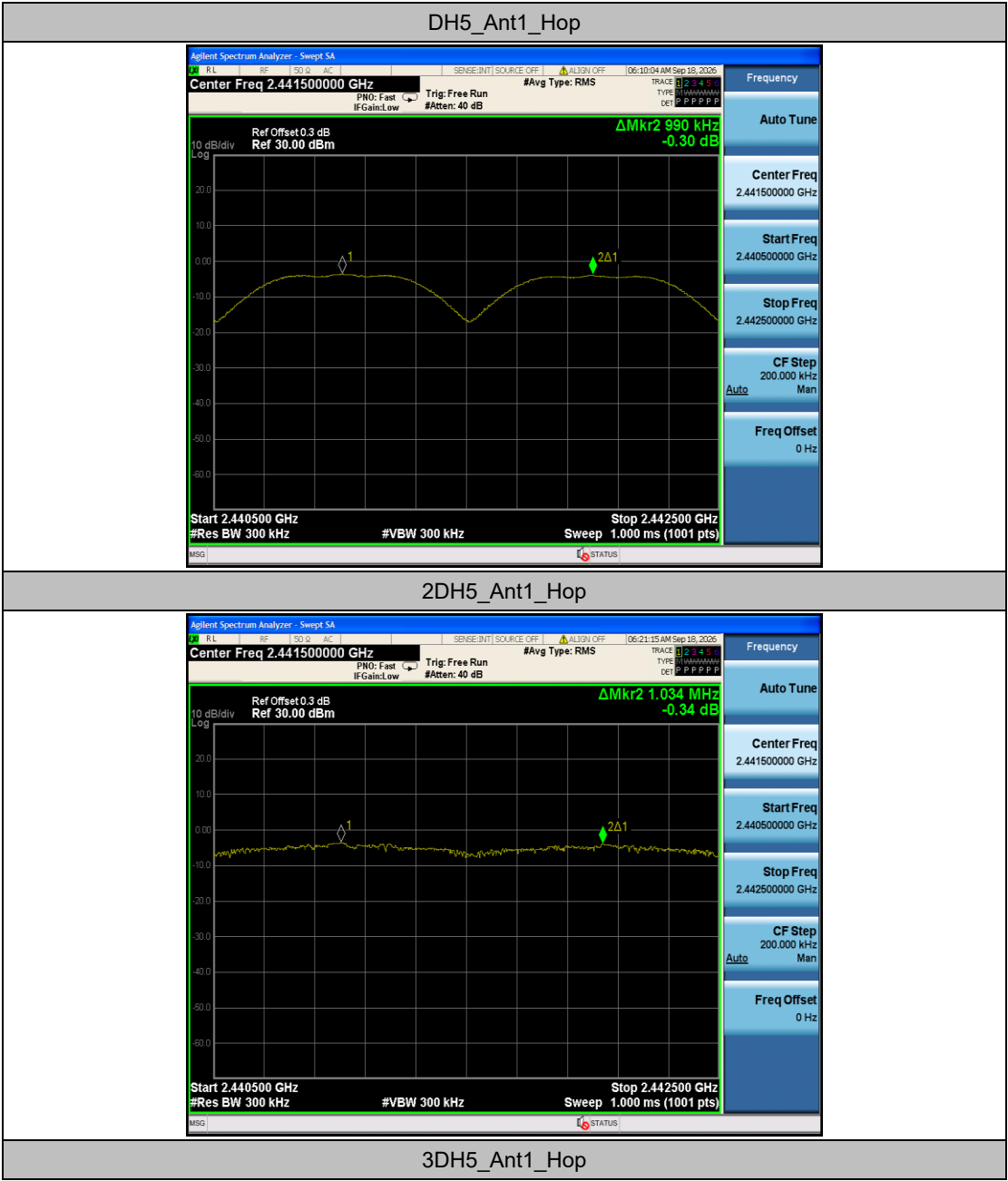
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.44	≤20.97	PASS
		2441	-3.47	≤20.97	PASS
		2480	-3.75	≤20.97	PASS
2DH5	Ant1	2402	-0.82	≤20.97	PASS
		2441	-0.97	≤20.97	PASS
		2480	-1.18	≤20.97	PASS
3DH5	Ant1	2402	-0.35	≤20.97	PASS
		2441	-0.52	≤20.97	PASS
		2480	-0.77	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.99	≥ 0.966	PASS
2DH5	Ant1	Hop	1.034	≥ 0.892	PASS
3DH5	Ant1	Hop	0.98	≥ 0.880	PASS

Test Graphs



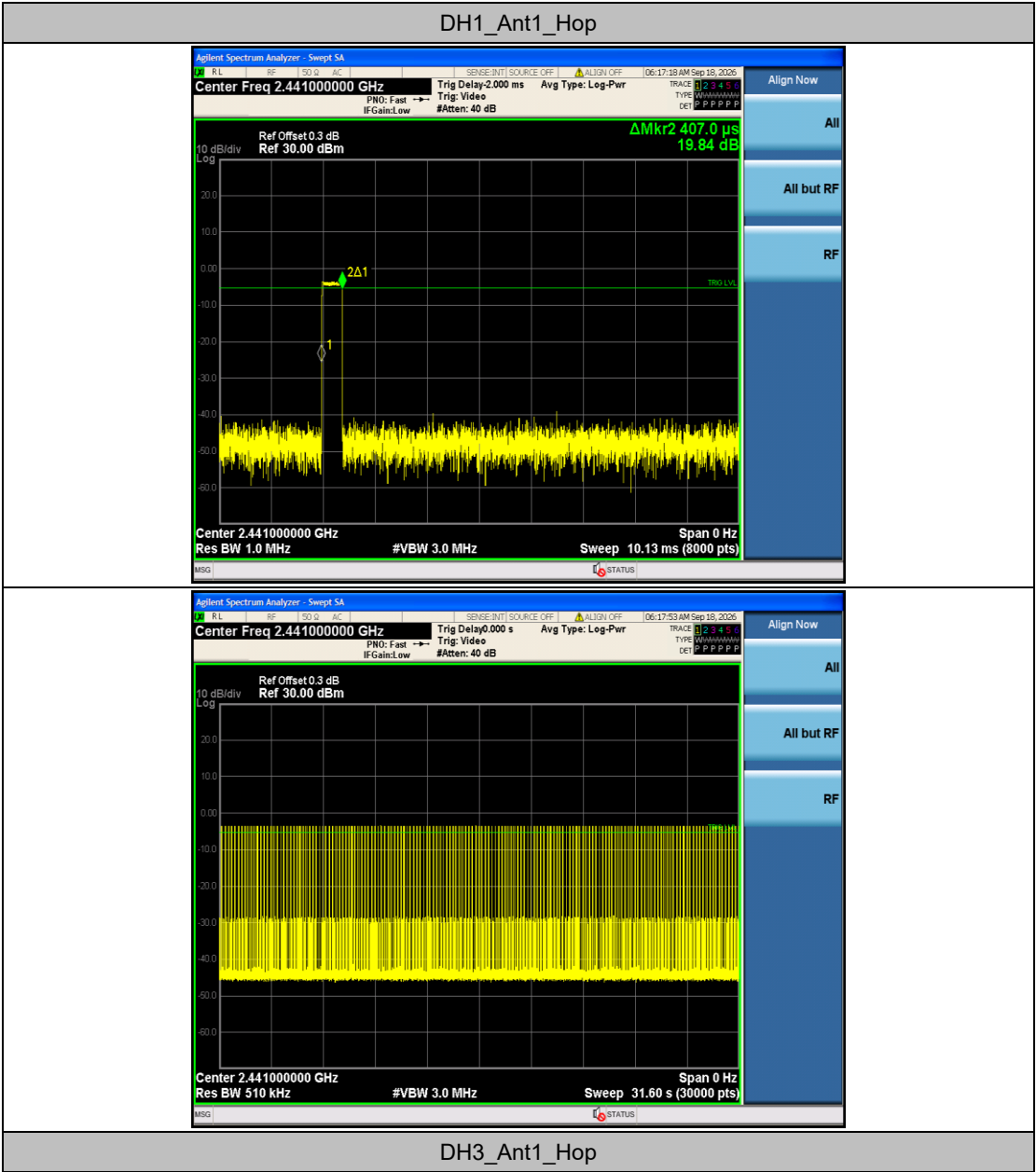


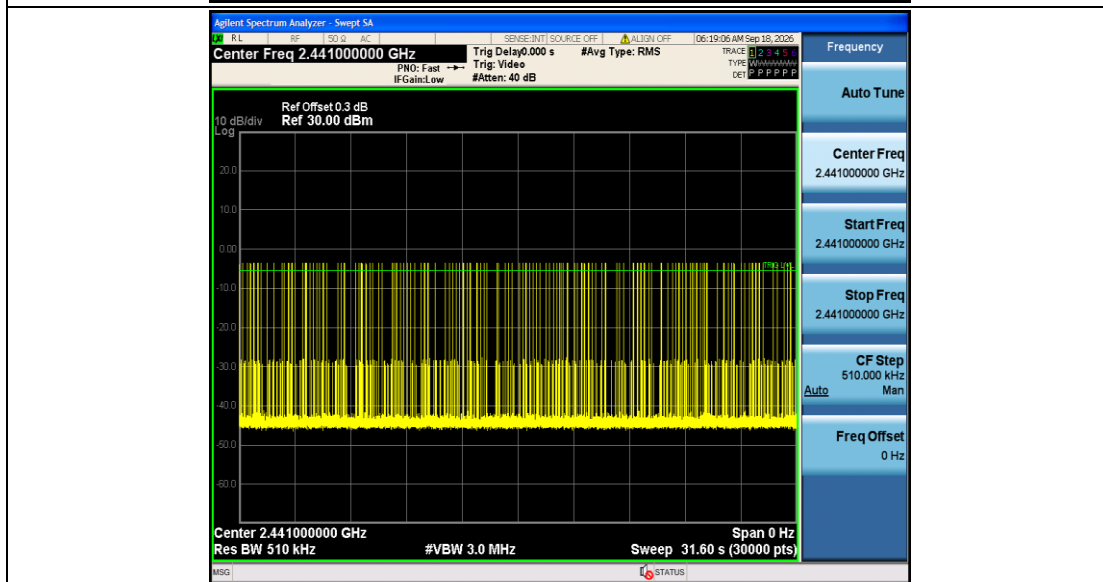
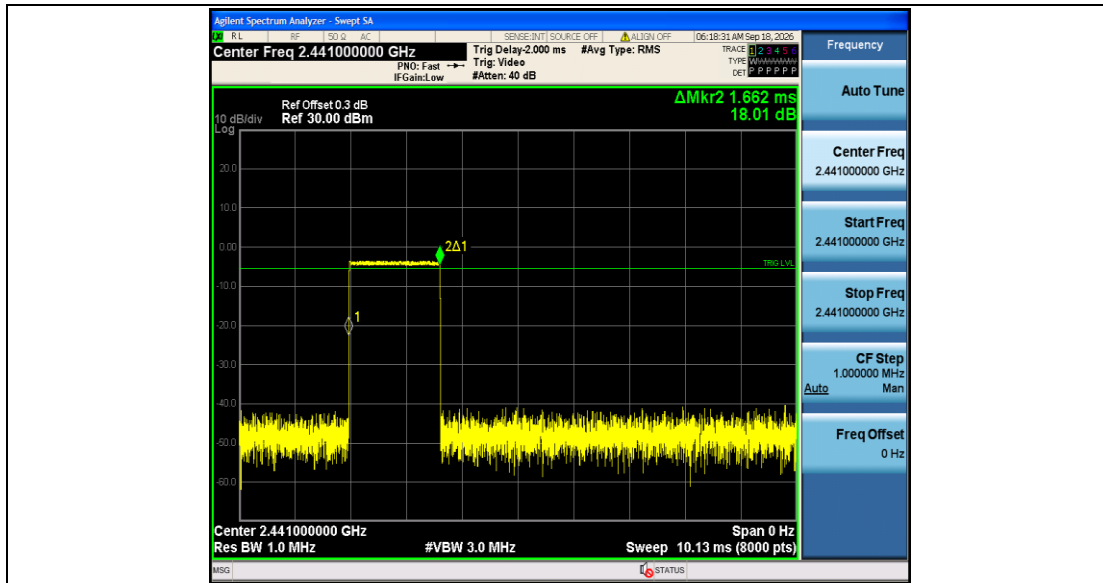
Appendix E: Time of occupancy

Test Result

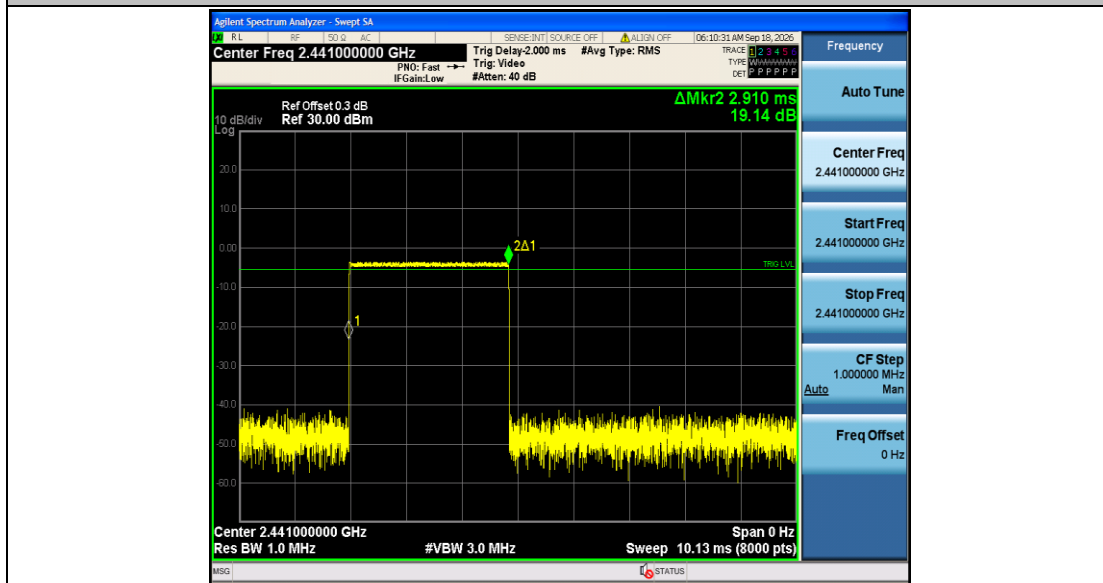
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	162	0.269	≤0.4	PASS
DH5	Ant1	Hop	2.910	95	0.276	≤0.4	PASS
2DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	164	0.274	≤0.4	PASS
2DH5	Ant1	Hop	2.916	109	0.318	≤0.4	PASS
3DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.666	166	0.277	≤0.4	PASS
3DH5	Ant1	Hop	2.916	114	0.332	≤0.4	PASS

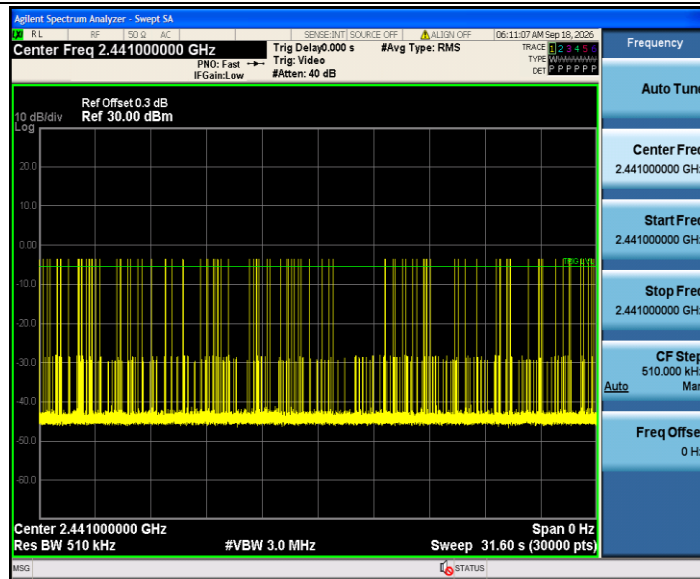
Test Graphs



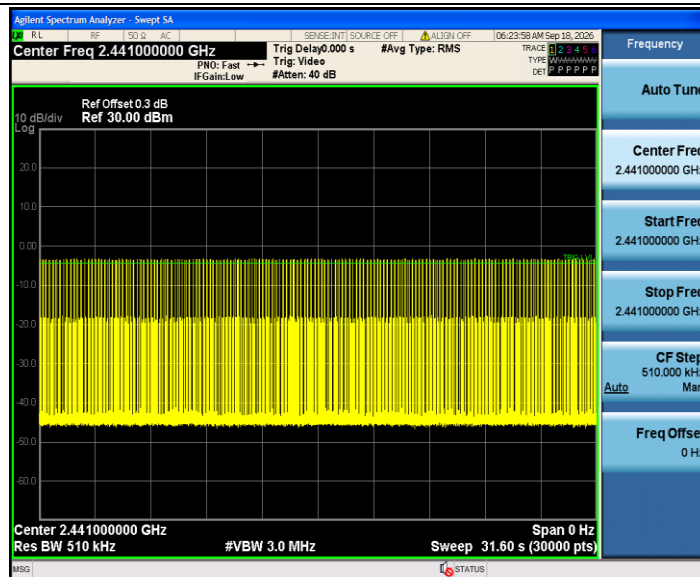
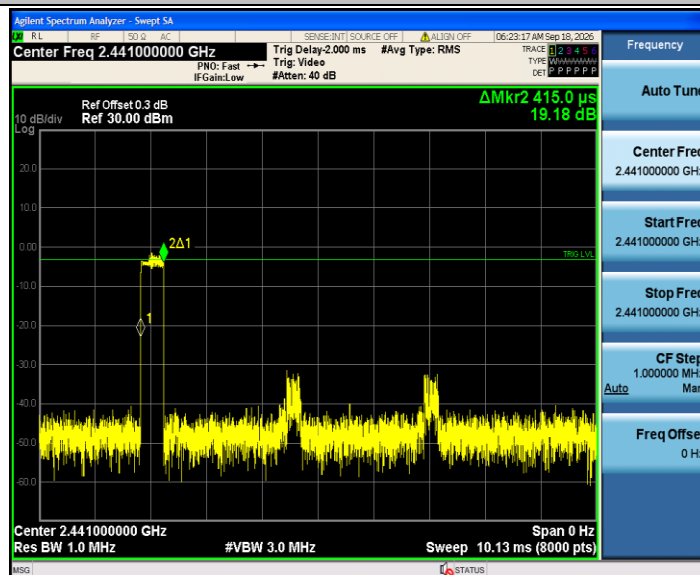


DH5_Ant1_Hop

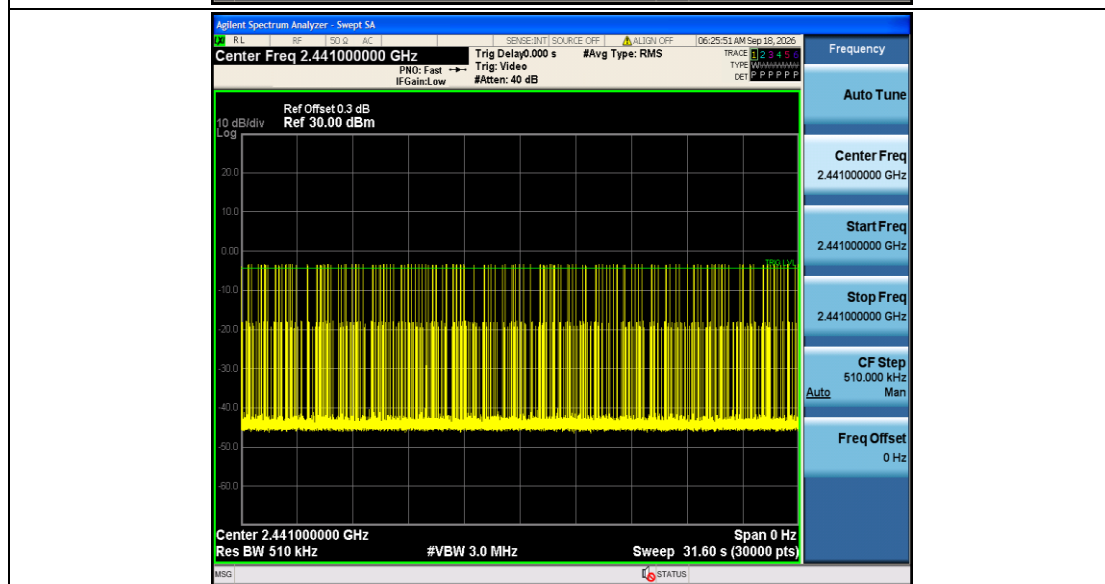
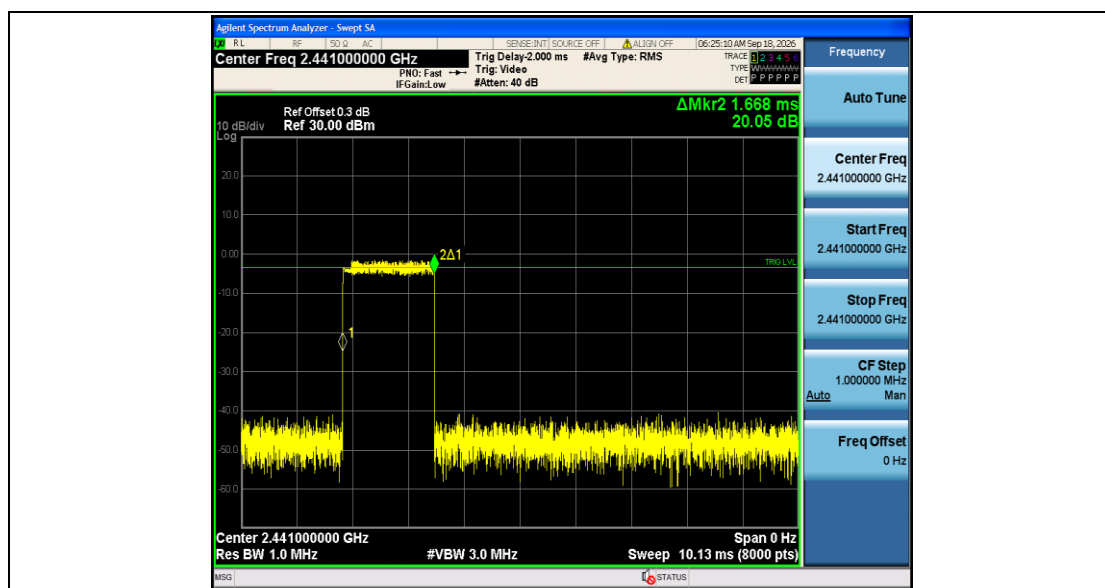




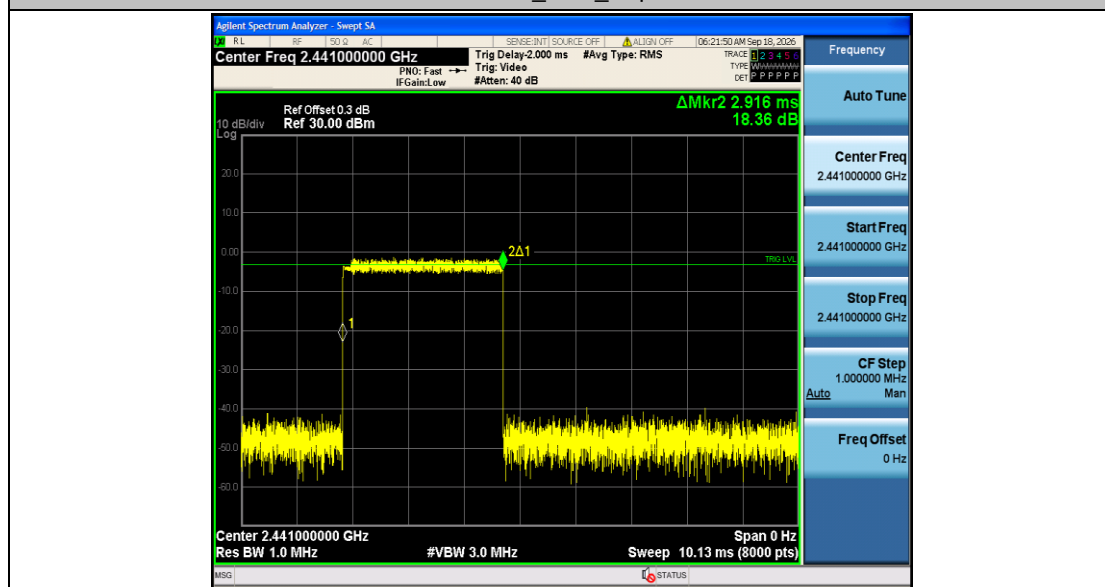
2DH1_Ant1_Hop

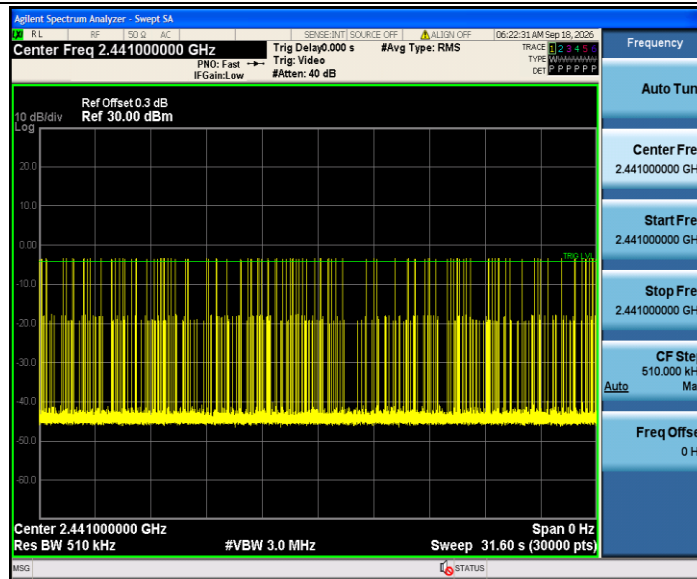


2DH3_Ant1_Hop

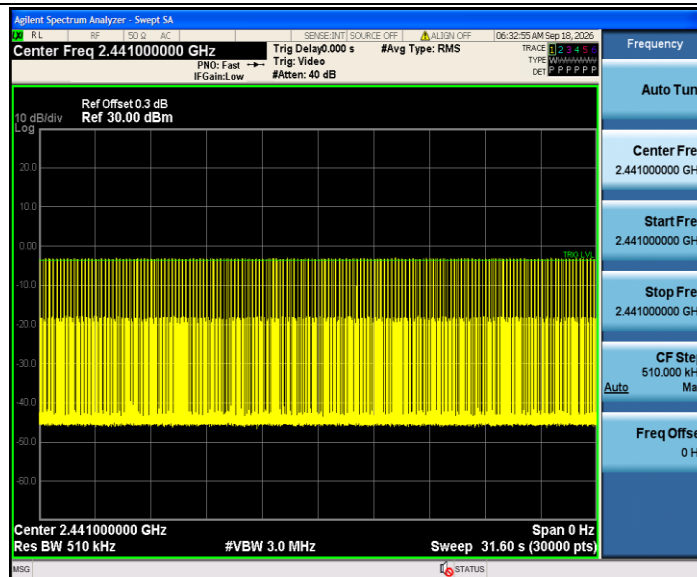
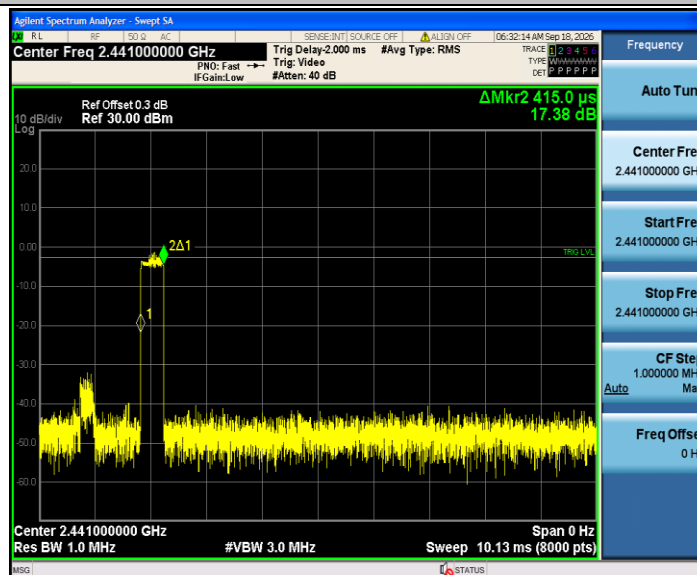


2DH5_Ant1_Hop

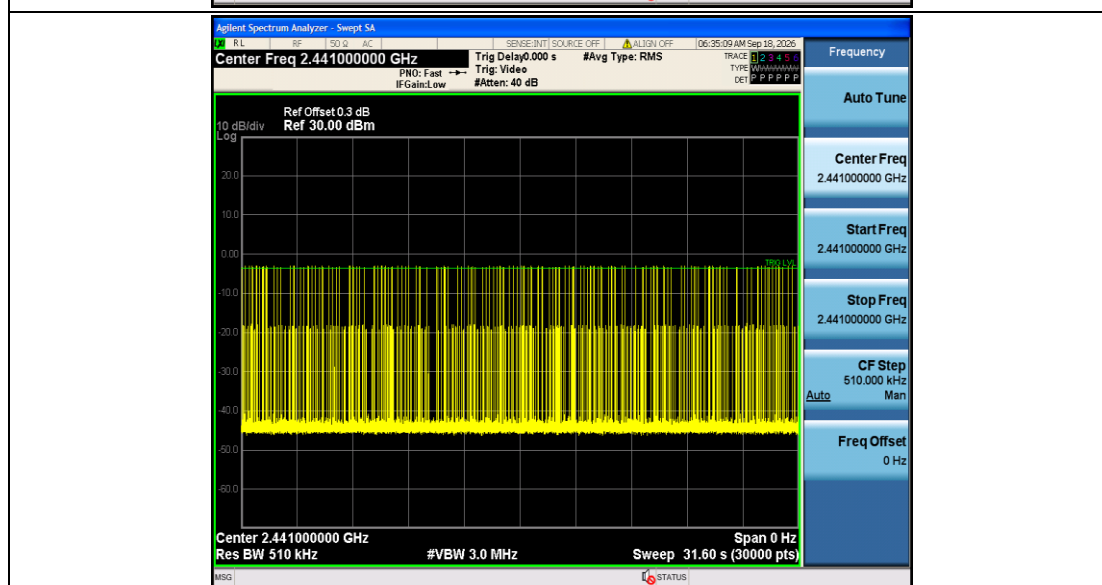
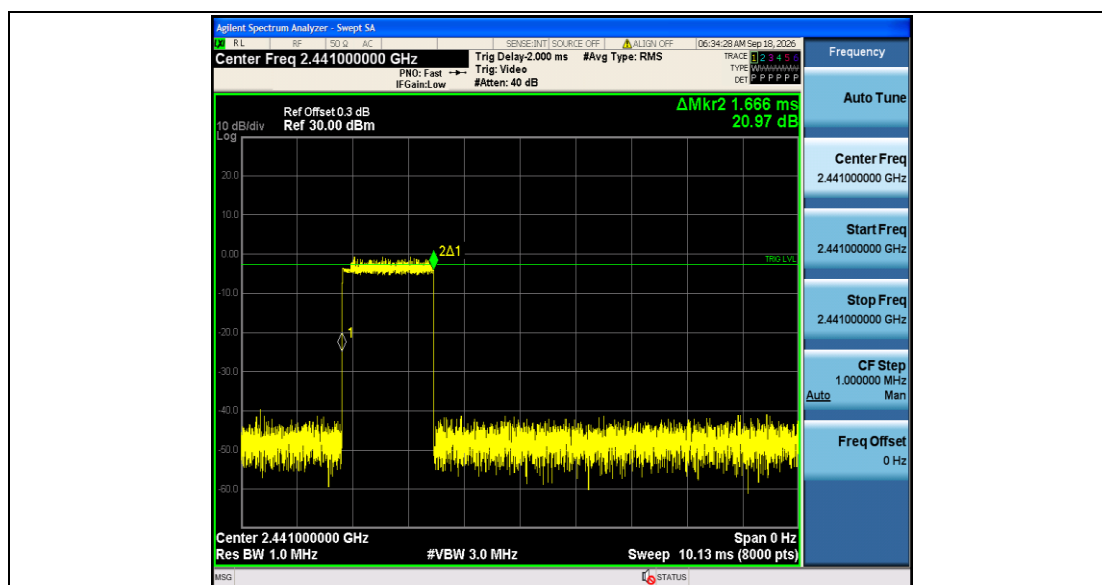




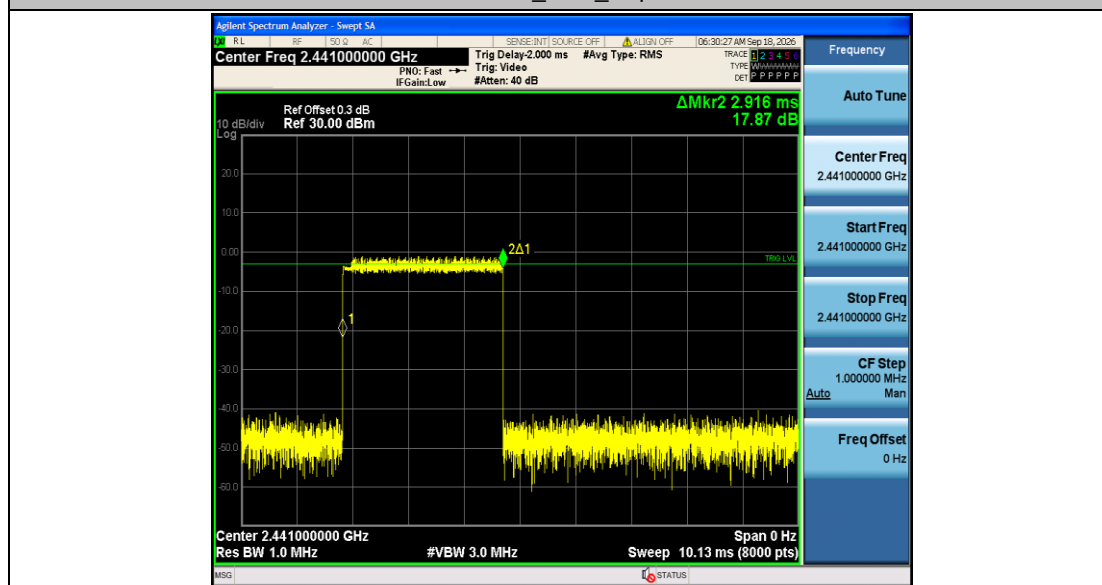
3DH1_Ant1_Hop

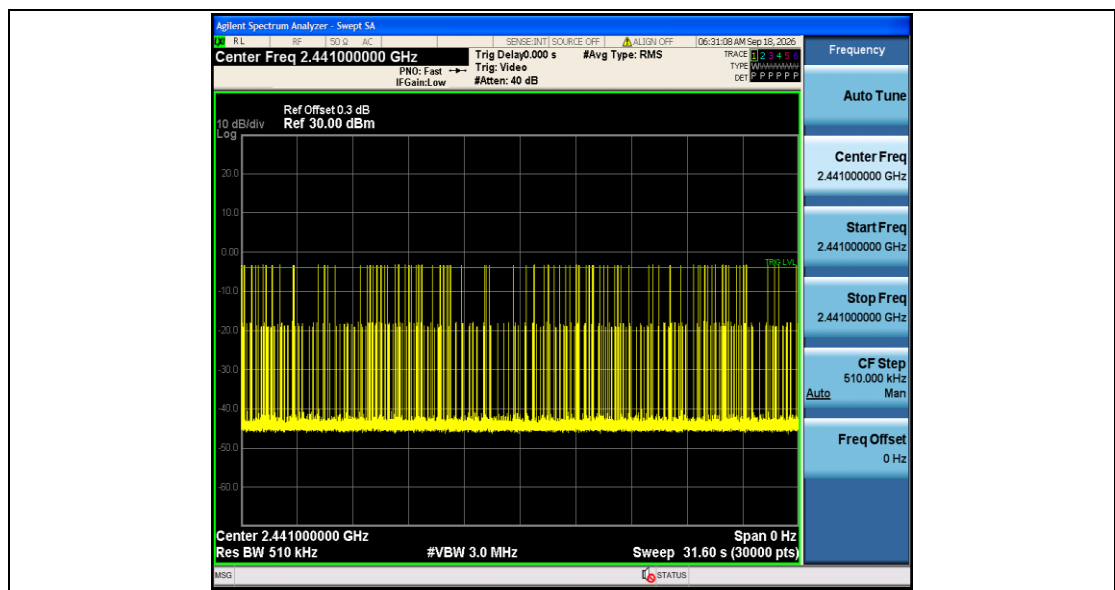


3DH3_Ant1_Hop



3DH5_Ant1_Hop



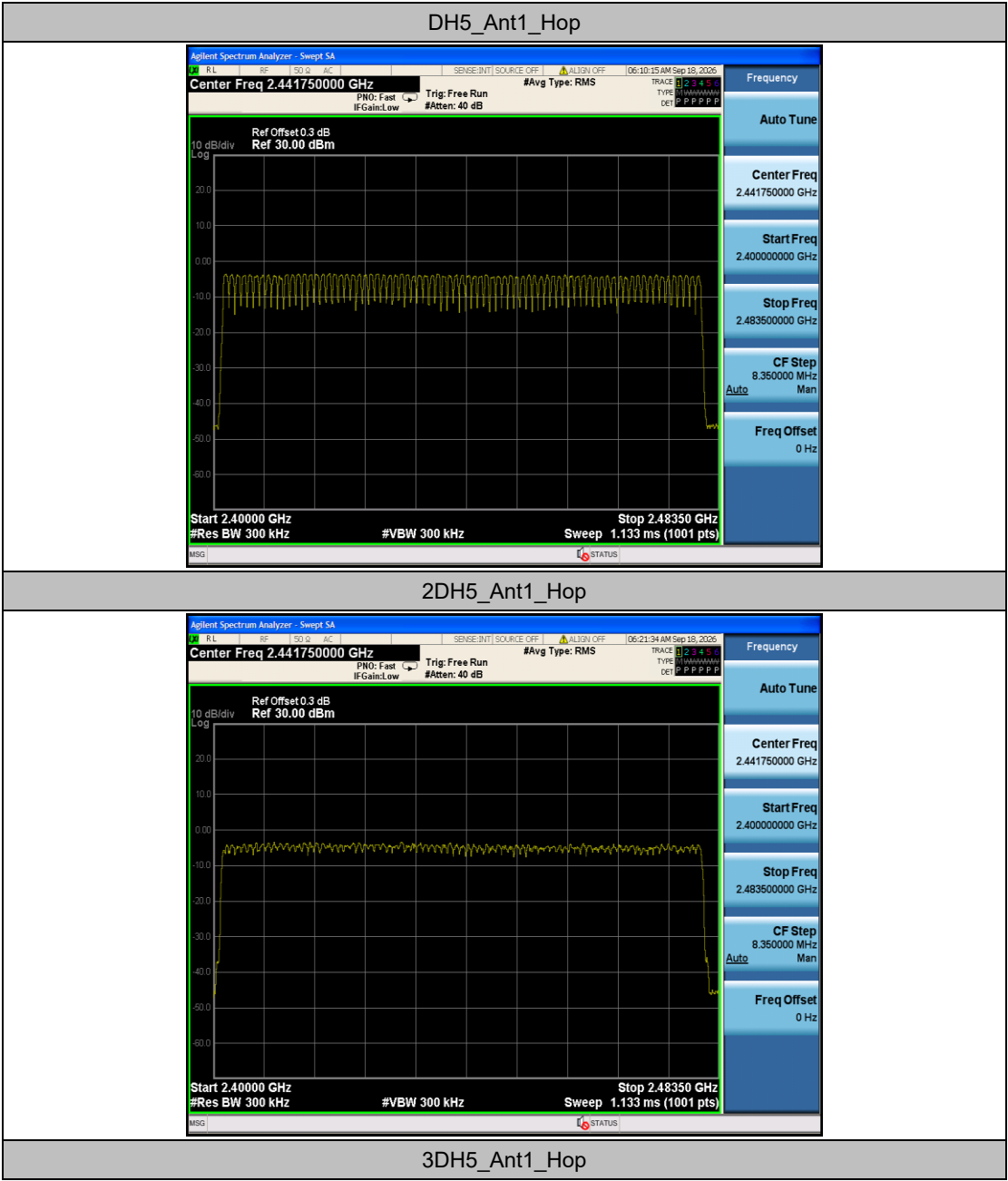


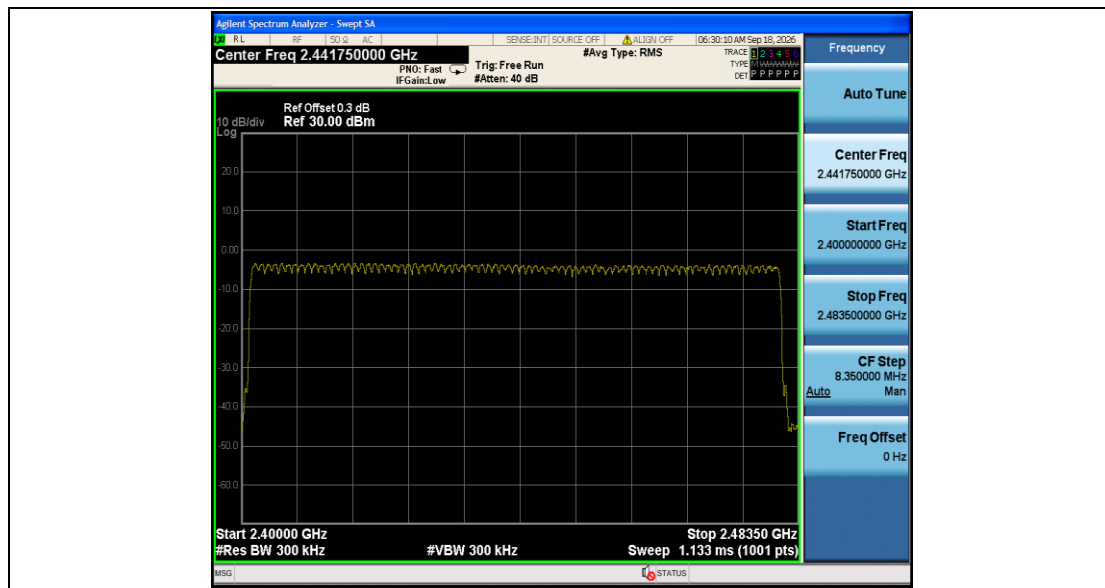
Appendix F: Number of hopping channels

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



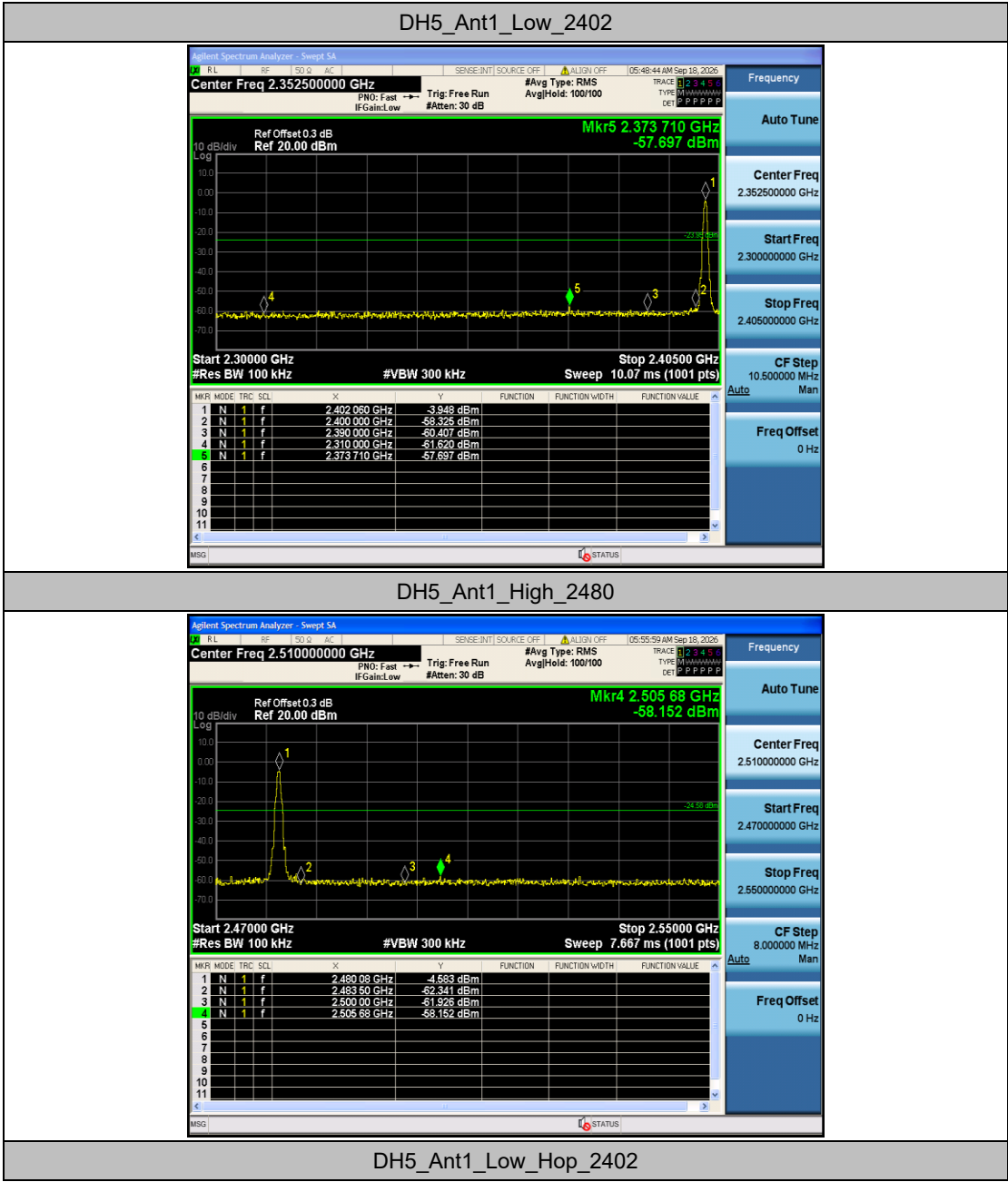


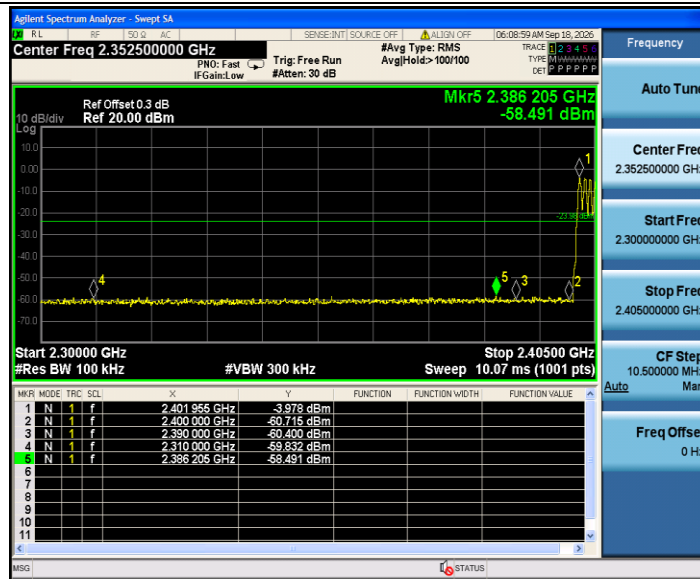
Appendix G: Band edge measurements

Test Result

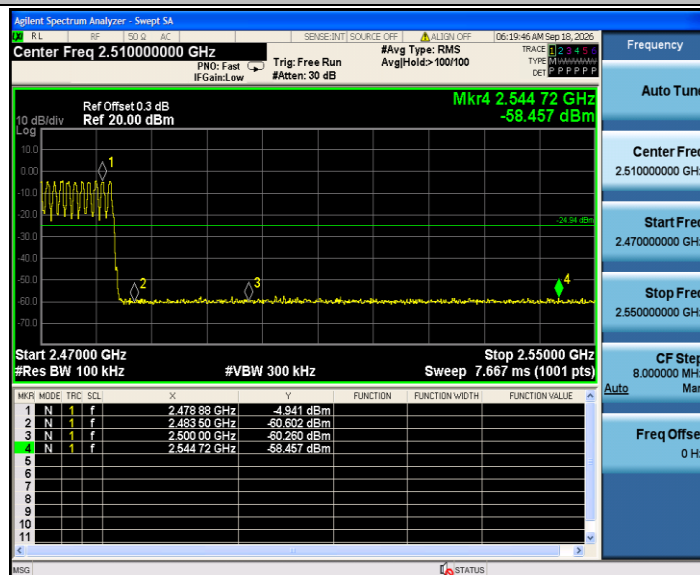
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.95	-57.7	≤-23.95	PASS
		High	2480	-4.58	-58.15	≤-24.58	PASS
		Low	Hop_2402	-3.98	-58.49	≤-23.98	PASS
		High	Hop_2480	-4.94	-58.46	≤-24.94	PASS
2DH5	Ant1	Low	2402	-4.88	-55.94	≤-24.88	PASS
		High	2480	-5.12	-57.39	≤-25.12	PASS
		Low	Hop_2402	-6.24	-58.66	≤-26.24	PASS
		High	Hop_2480	-6.99	-58.23	≤-26.99	PASS
3DH5	Ant1	Low	2402	-3.64	-57.96	≤-23.64	PASS
		High	2480	-4.42	-53.59	≤-24.42	PASS
		Low	Hop_2402	-3.64	-58.04	≤-23.64	PASS
		High	Hop_2480	-7.05	-58.26	≤-27.05	PASS

Test Graphs

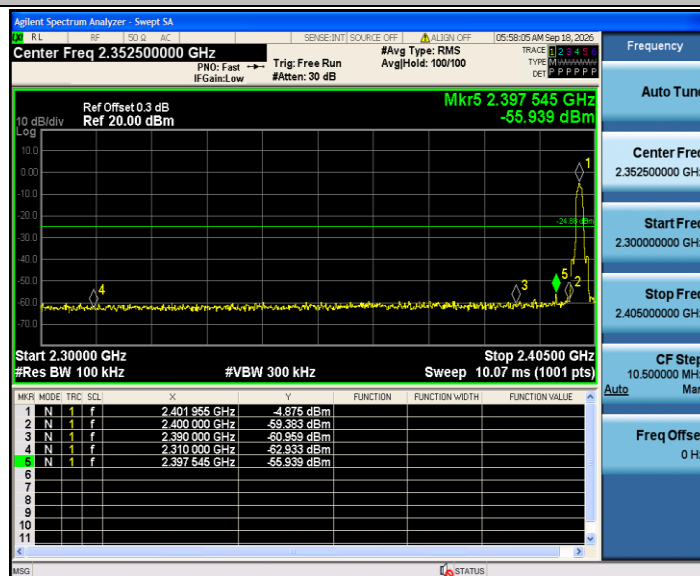




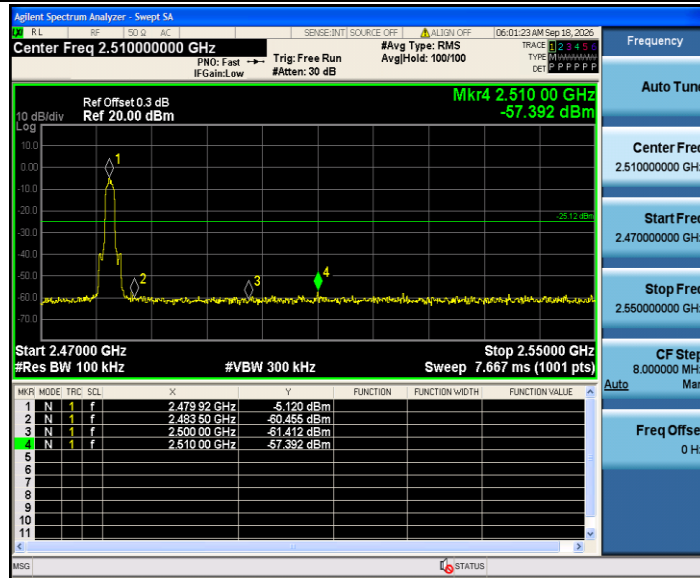
DH5_Ant1_High_Hop_2480



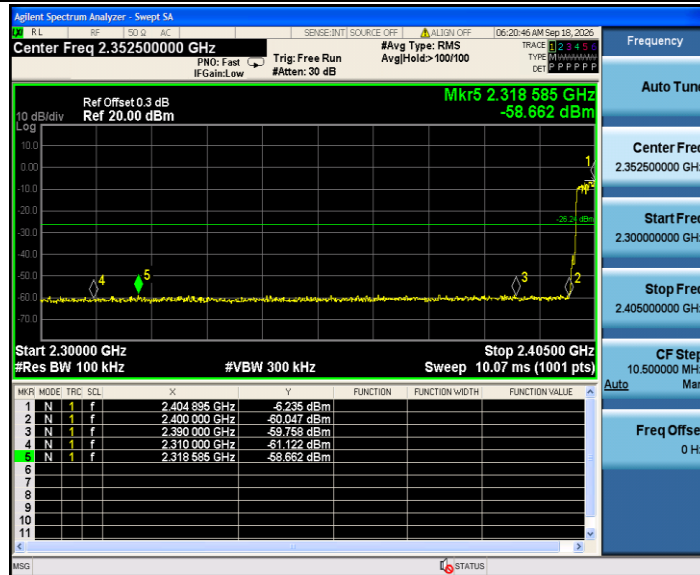
2DH5_Ant1_Low_2402



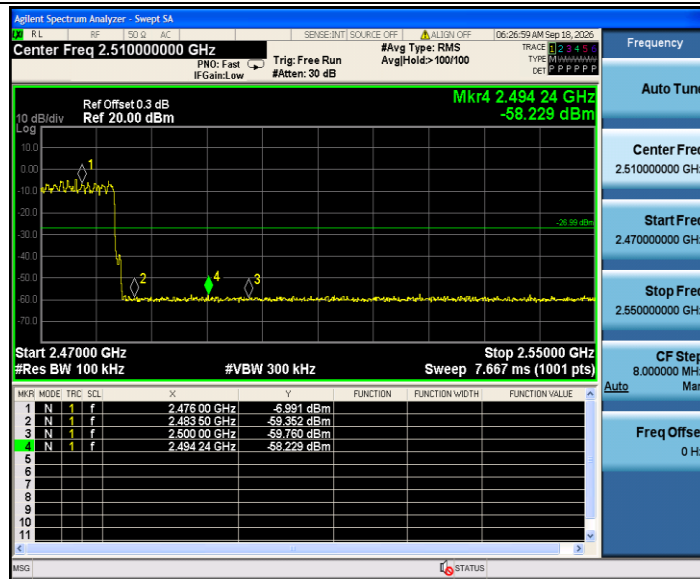
2DH5_Ant1_High_2480



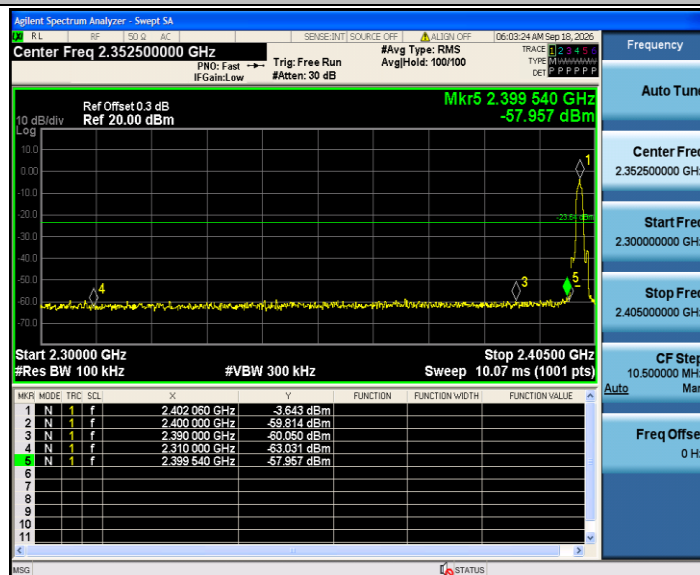
2DH5_Ant1_Low_Hop_2402



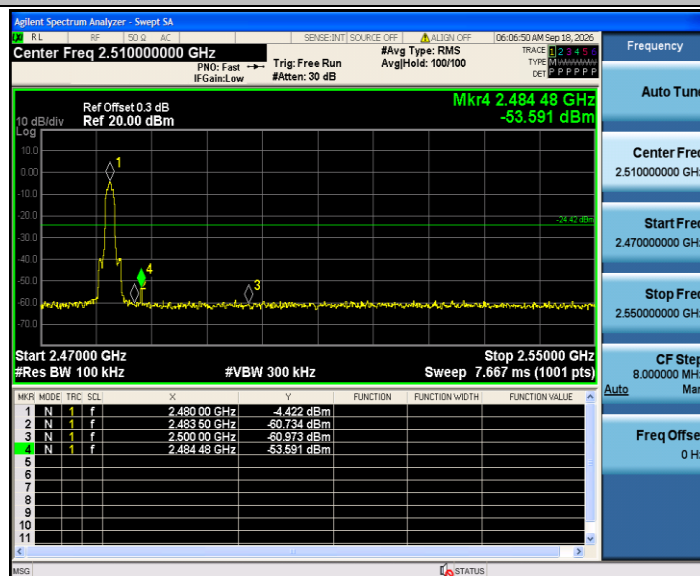
2DH5_Ant1_High_Hop_2480



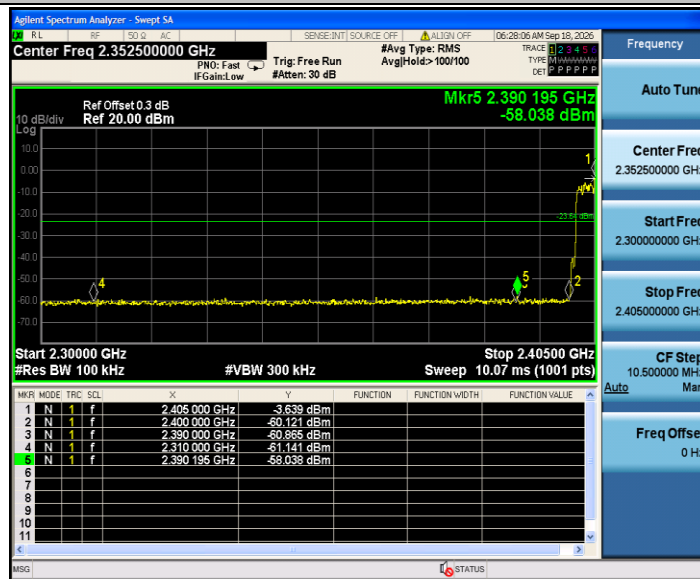
3DH5_Ant1_Low_2402



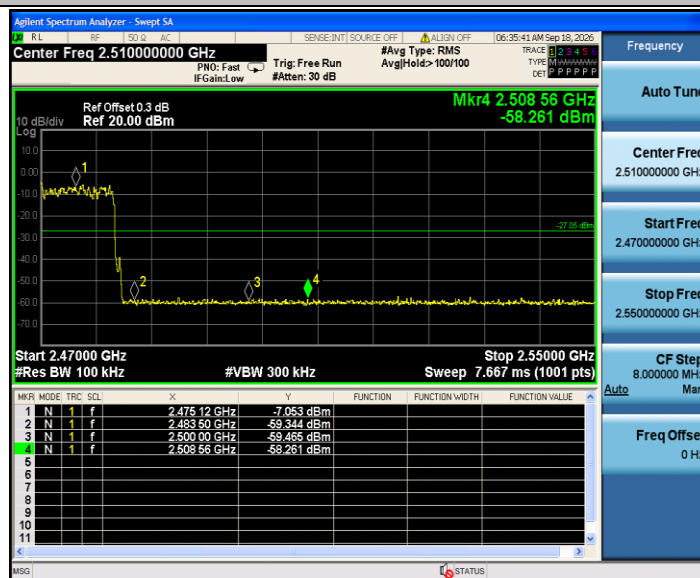
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

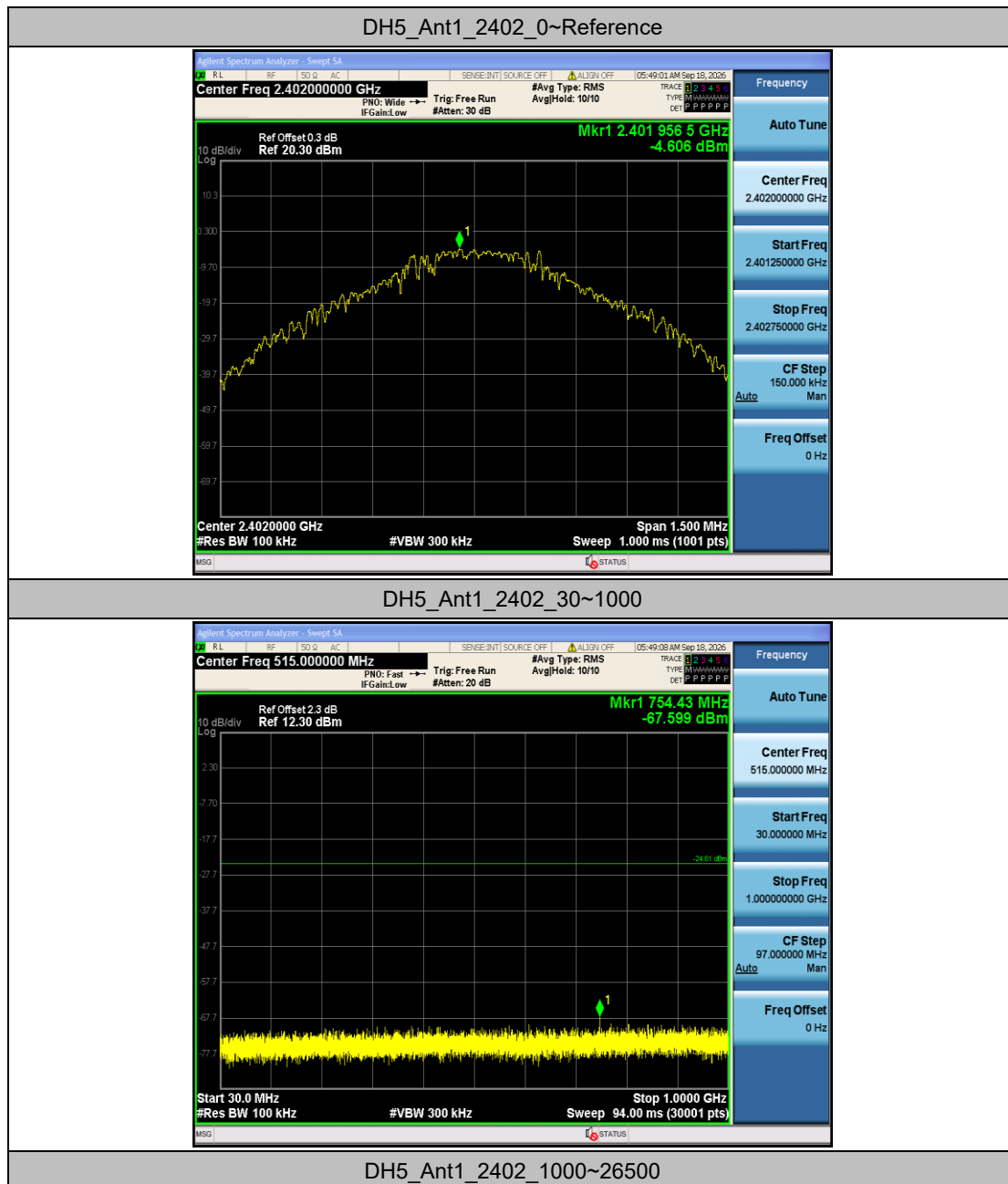


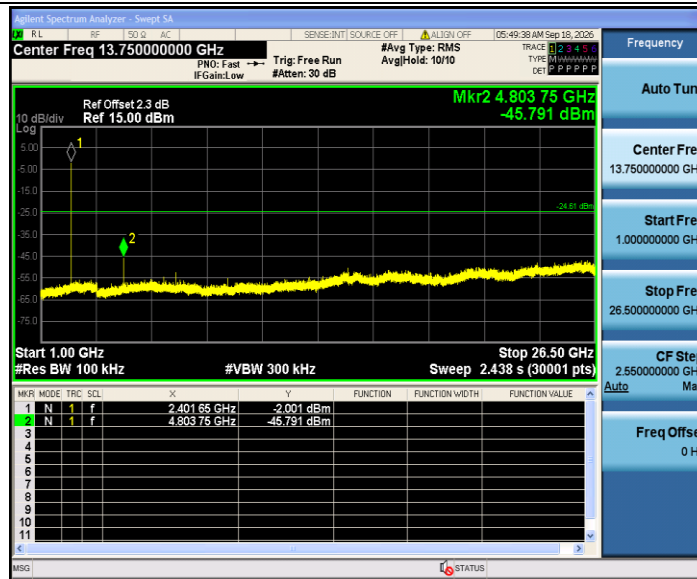
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-67.6	≤-24.61	PASS
			1000~26500	-4.61	-45.79	≤-24.61	PASS
		2441	Reference	-4.44	-4.44	---	PASS
			30~1000	-4.44	-68.98	≤-24.44	PASS
			1000~26500	-4.44	-44.19	≤-24.44	PASS
		2480	Reference	-4.89	-4.89	---	PASS
			30~1000	-4.89	-69.11	≤-24.89	PASS
			1000~26500	-4.89	-46.07	≤-24.89	PASS
2DH5	Ant1	2402	Reference	-5.96	-5.96	---	PASS
			30~1000	-5.96	-68.53	≤-25.96	PASS
			1000~26500	-5.96	-47.38	≤-25.96	PASS
		2441	Reference	-4.72	-4.72	---	PASS
			30~1000	-4.72	-68.7	≤-24.72	PASS
			1000~26500	-4.72	-46.11	≤-24.72	PASS
		2480	Reference	-6.09	-6.09	---	PASS
			30~1000	-6.09	-68.54	≤-26.09	PASS
			1000~26500	-6.09	-46.19	≤-26.09	PASS
3DH5	Ant1	2402	Reference	-6.31	-6.31	---	PASS
			30~1000	-6.31	-67.4	≤-26.31	PASS
			1000~26500	-6.31	-44.84	≤-26.31	PASS
		2441	Reference	-6.50	-6.50	---	PASS
			30~1000	-6.50	-68.49	≤-26.5	PASS
			1000~26500	-6.50	-47.06	≤-26.5	PASS
		2480	Reference	-5.73	-5.73	---	PASS
			30~1000	-5.73	-68.36	≤-25.73	PASS
			1000~26500	-5.73	-45.16	≤-25.73	PASS

Test Graphs

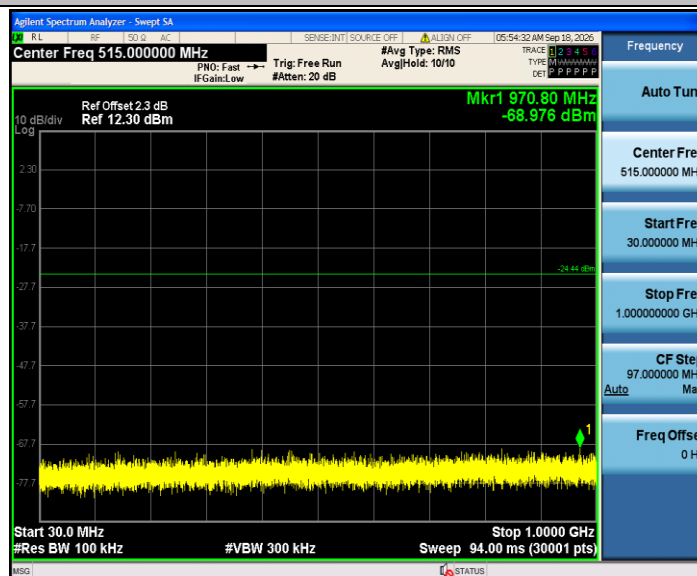




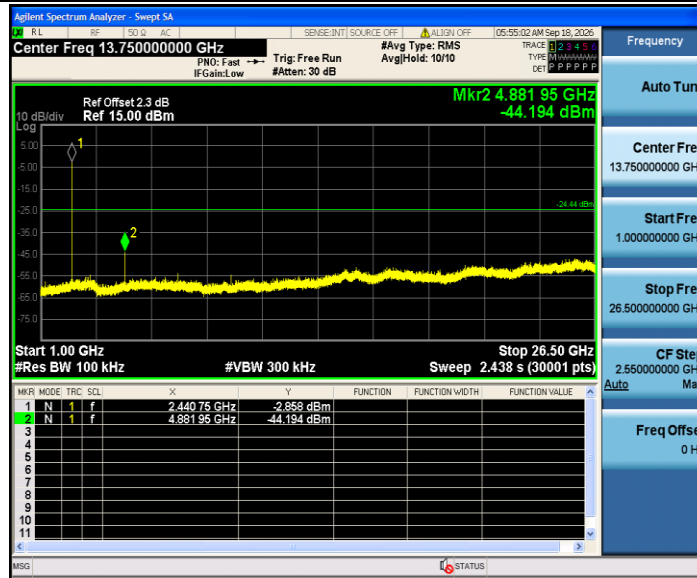
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



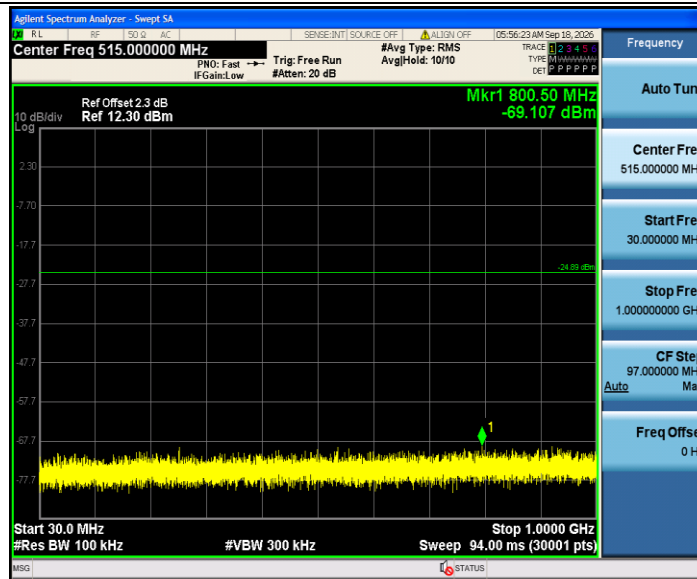
DH5_Ant1_2441_1000~26500



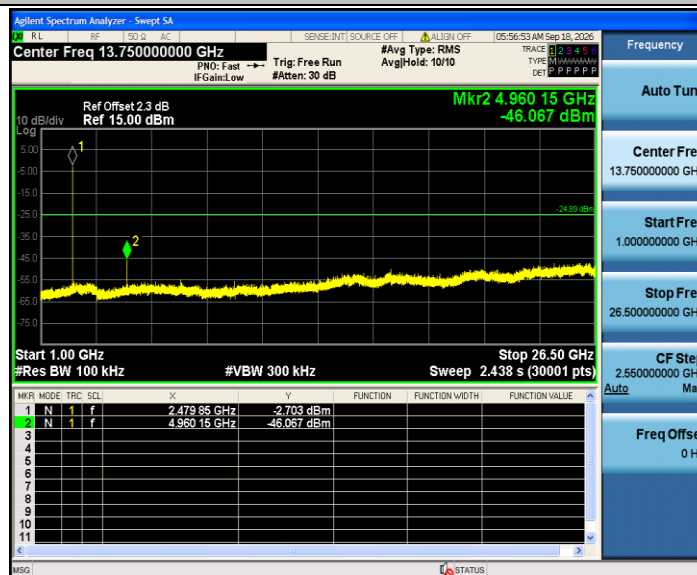
DH5_Ant1_2480_0~Reference



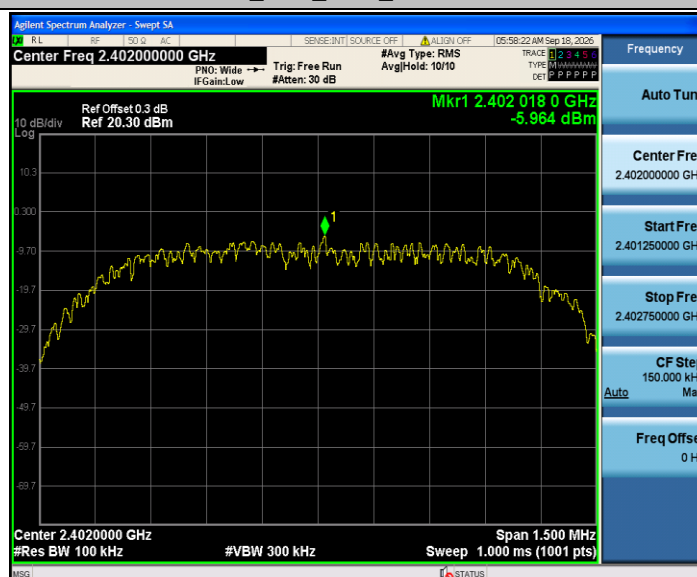
DH5_Ant1_2480_30~1000



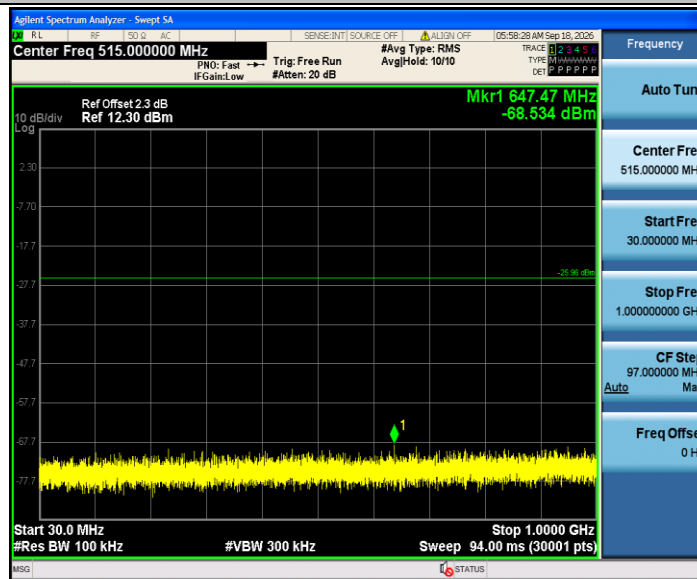
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference