

FCC Appendix RF Test Data

FCC ID : **2AU3D-RCAPRIME**

Company: : **United Creation Technology Corp.,Ltd**

EUT : **4G smart phone**

Model Number : **Prime**

Report No. : **CTA25040200712**

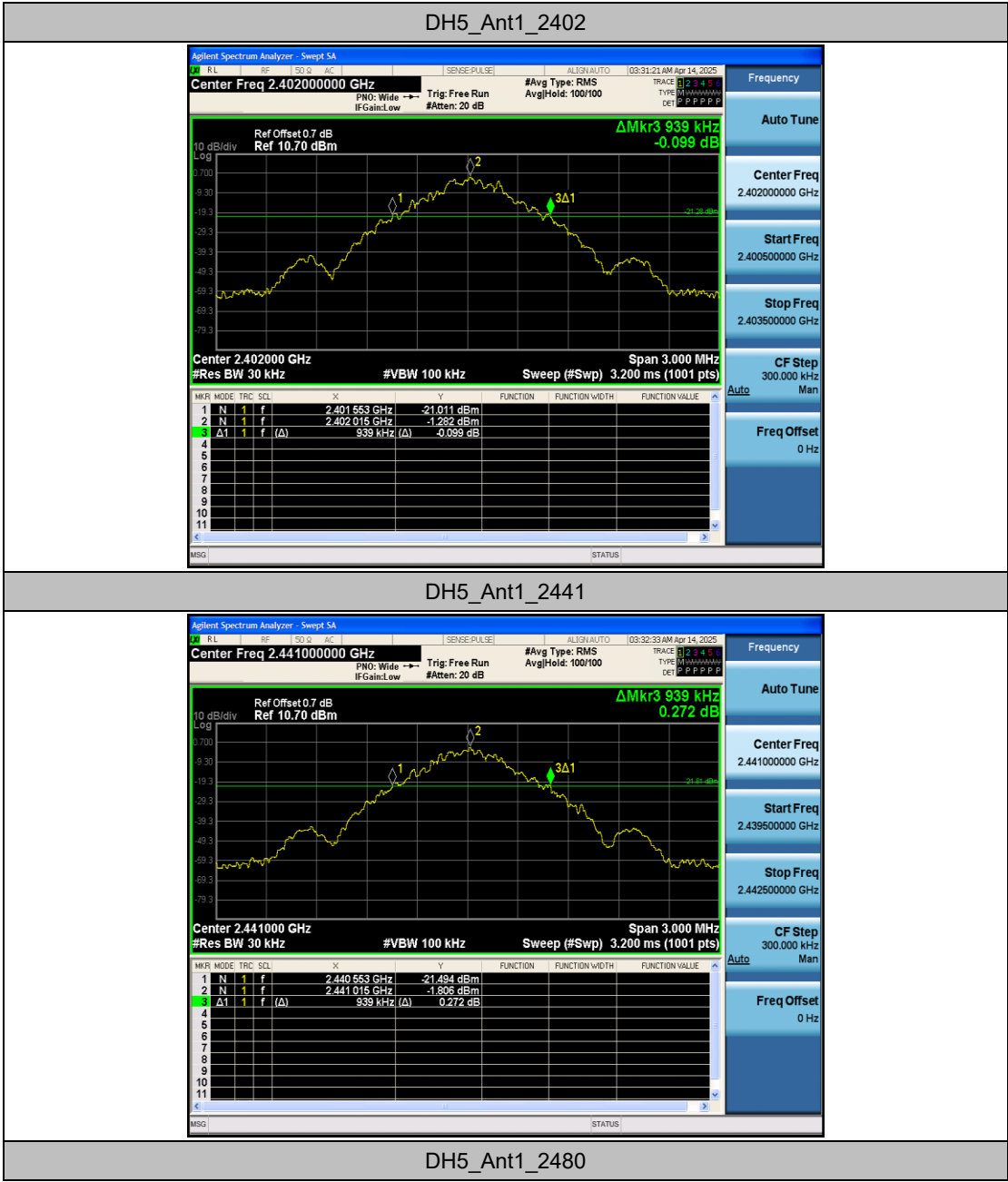
Reviewed By : **Eric Wang**

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	0.939	2440.553	2441.492	---	---
		2480	0.948	2479.550	2480.498	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.305	2440.361	2441.666	---	---
		2480	1.308	2479.358	2480.666	---	---
3DH5	Ant1	2402	1.278	2401.382	2402.660	---	---
		2441	1.275	2440.382	2441.657	---	---
		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

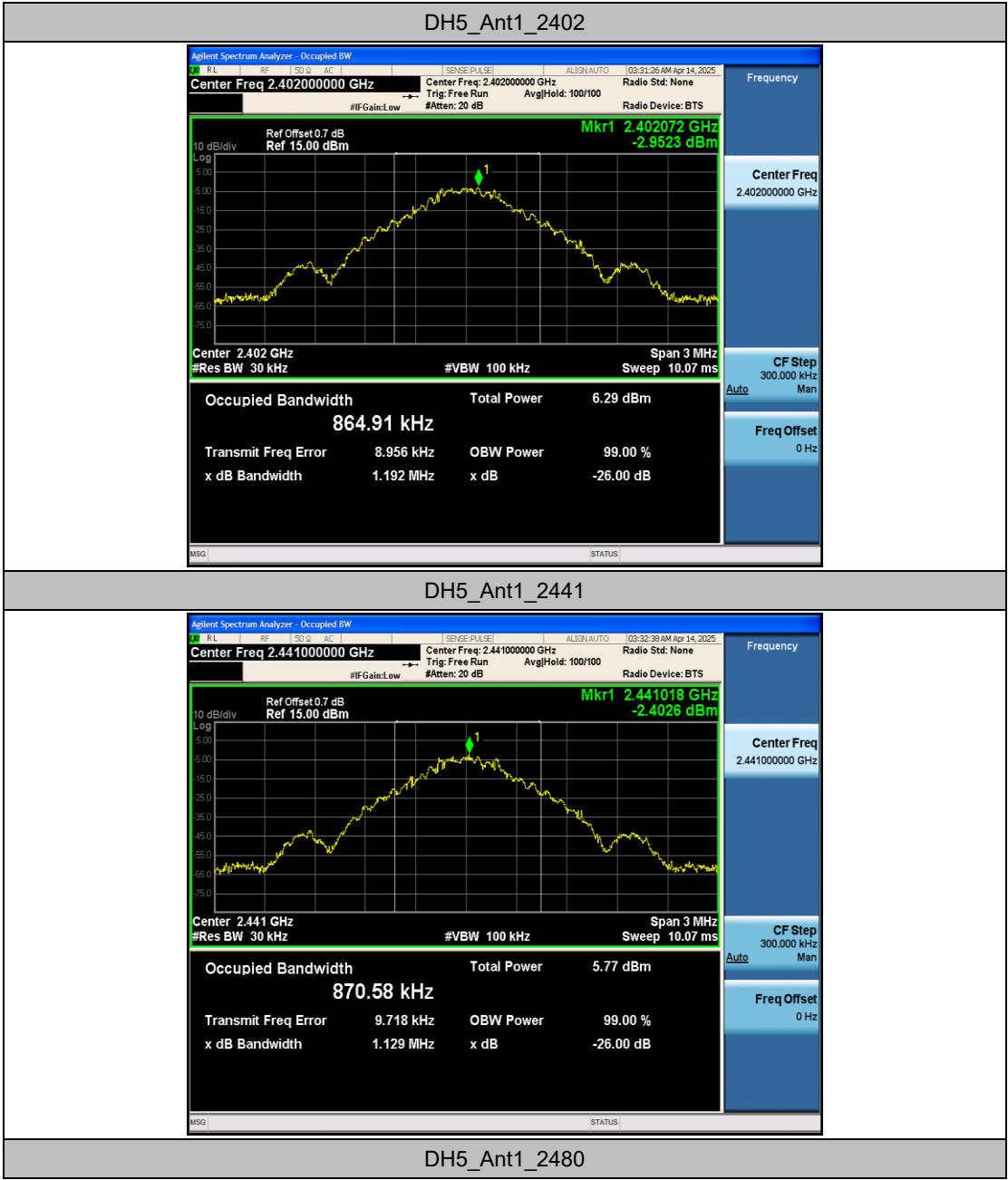


Appendix B: Occupied Channel Bandwidth

Test Result

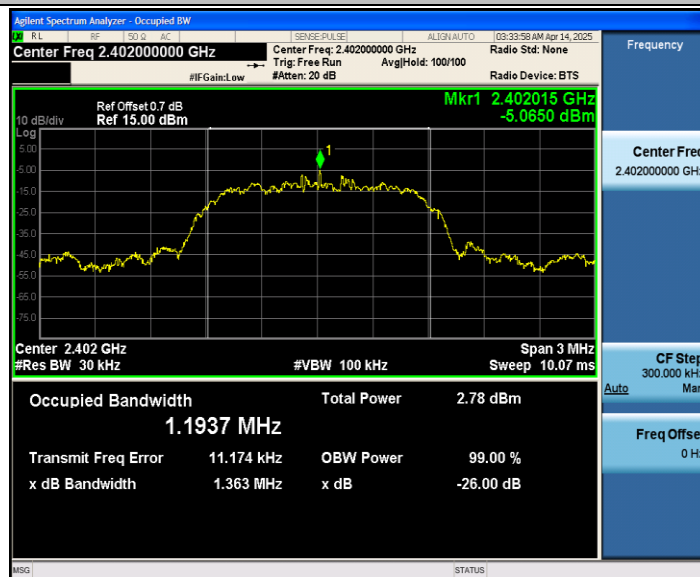
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86491	2401.5765	2402.4414	---	---
		2441	0.87058	2440.5744	2441.4450	---	---
		2480	0.87244	2479.5729	2480.4453	---	---
2DH5	Ant1	2402	1.1937	2401.4143	2402.6080	---	---
		2441	1.1925	2440.4166	2441.6091	---	---
		2480	1.1935	2479.4161	2480.6096	---	---
3DH5	Ant1	2402	1.1833	2401.4198	2402.6031	---	---
		2441	1.1915	2440.4153	2441.6068	---	---
		2480	1.1872	2479.4178	2480.6050	---	---

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

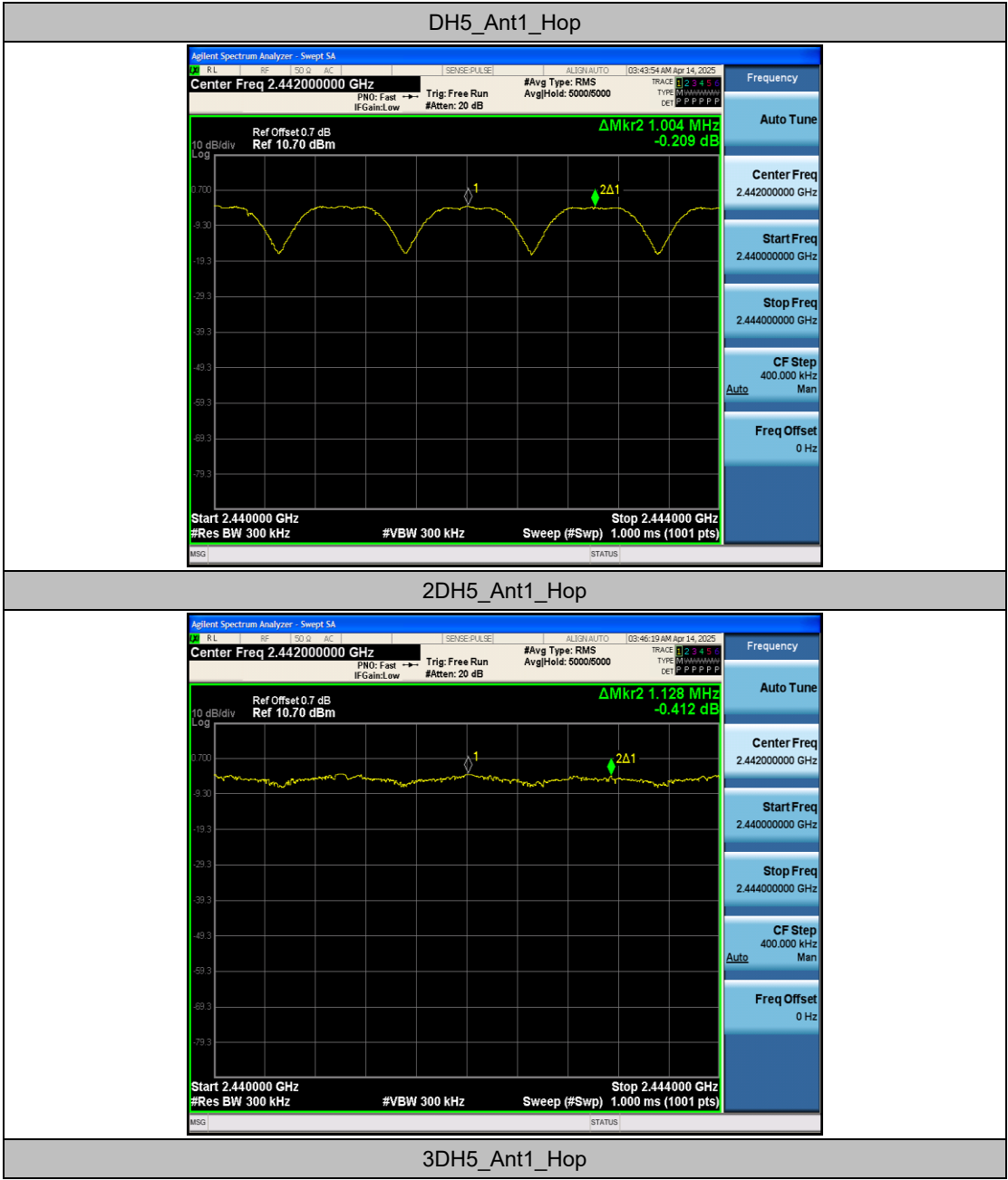
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.41	≤20.97	PASS
		2441	-0.12	≤20.97	PASS
		2480	-0.42	≤20.97	PASS
2DH5	Ant1	2402	-0.45	≤20.97	PASS
		2441	-0.91	≤20.97	PASS
		2480	-1.21	≤20.97	PASS
3DH5	Ant1	2402	-0.42	≤20.97	PASS
		2441	-0.93	≤20.97	PASS
		2480	-1.27	≤20.97	PASS

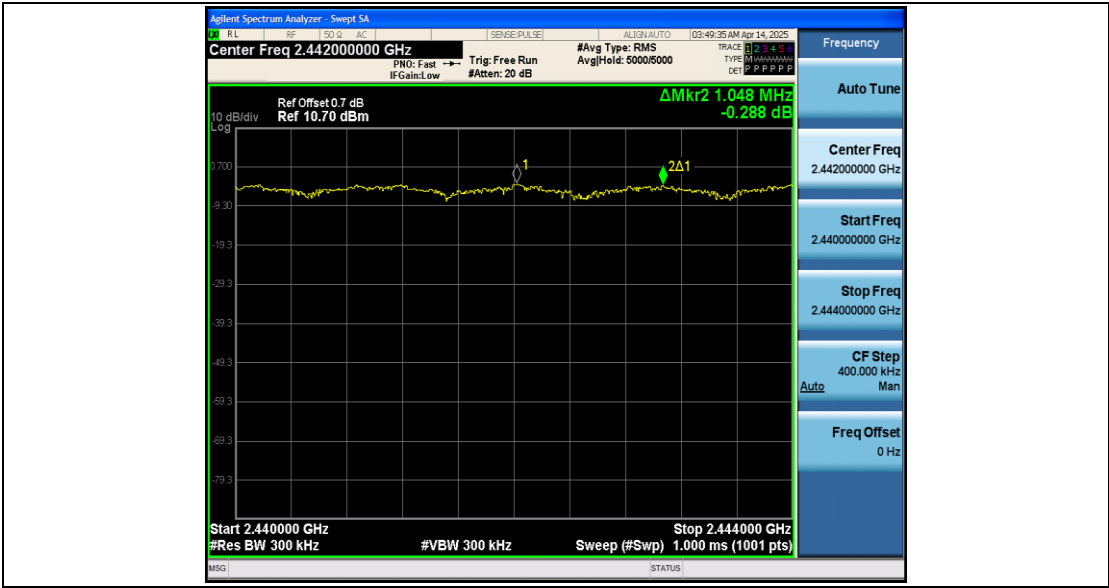
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.948	PASS
2DH5	Ant1	Hop	1.128	≥ 0.872	PASS
3DH5	Ant1	Hop	1.048	≥ 0.878	PASS

Test Graphs



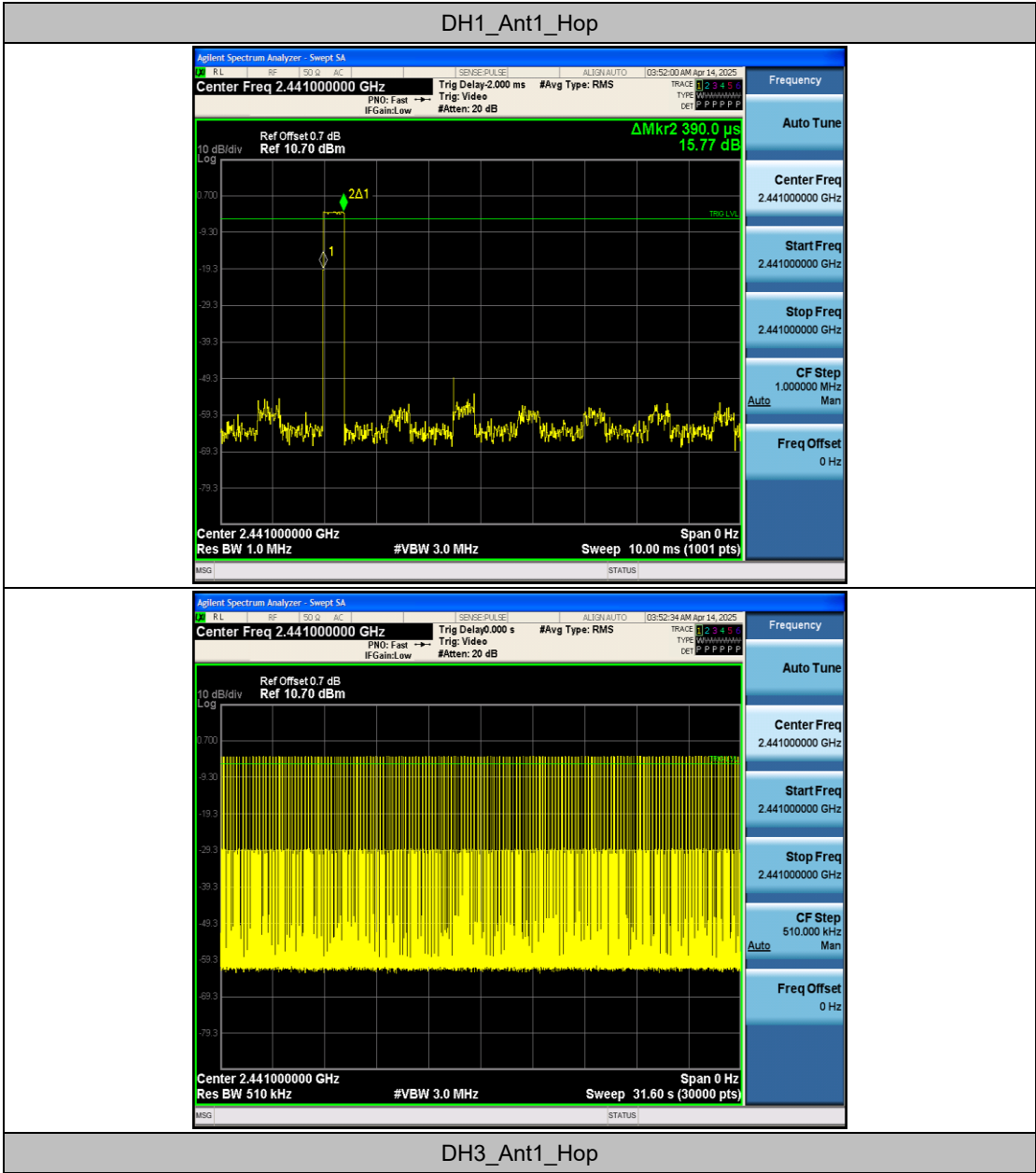


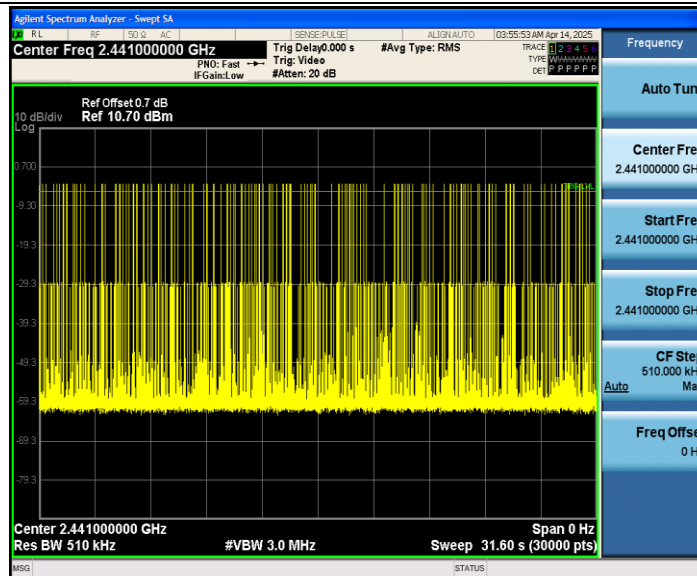
Appendix E: Time of occupancy

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	1.650	154	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.890	105	0.303	≤0.4	PASS
2DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.650	161	0.266	≤0.4	PASS
2DH5	Ant1	Hop	2.900	111	0.322	≤0.4	PASS
3DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.640	166	0.272	≤0.4	PASS
3DH5	Ant1	Hop	2.900	114	0.331	≤0.4	PASS

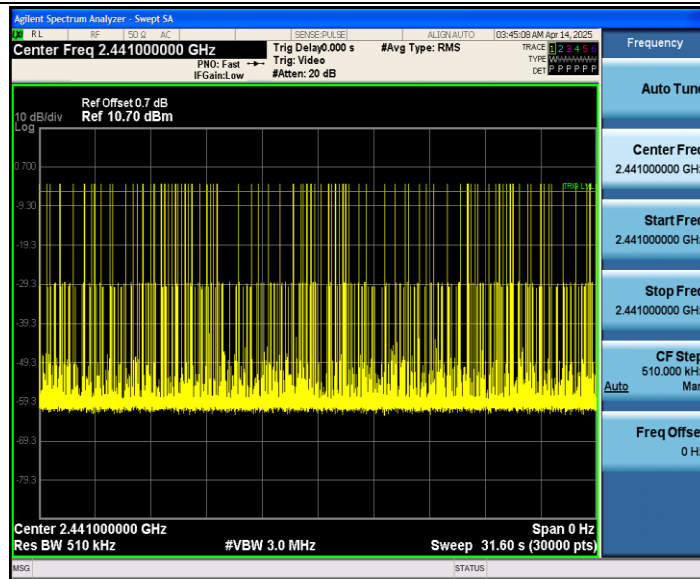
Test Graphs



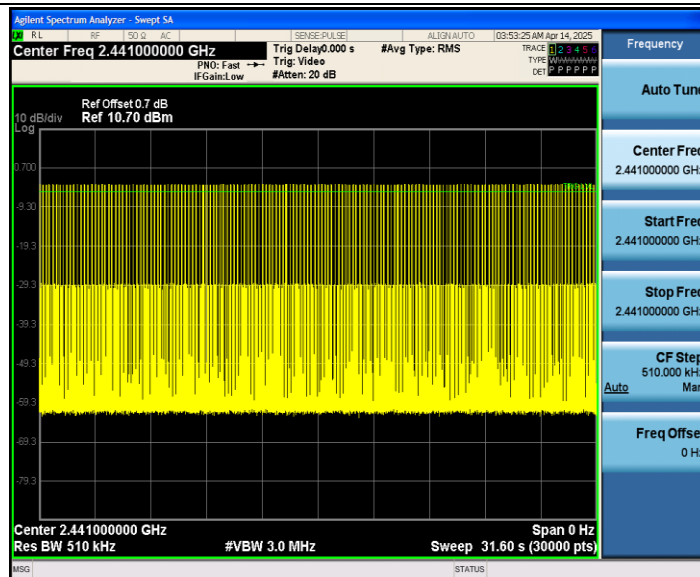
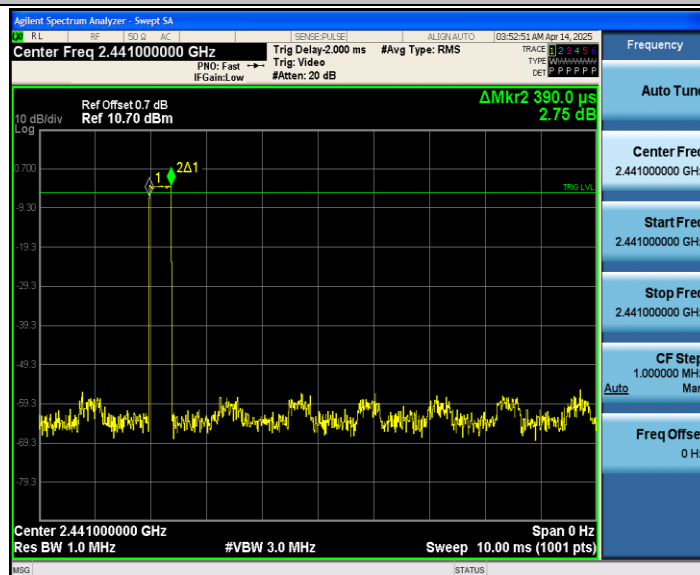


DH5_Ant1_Hop

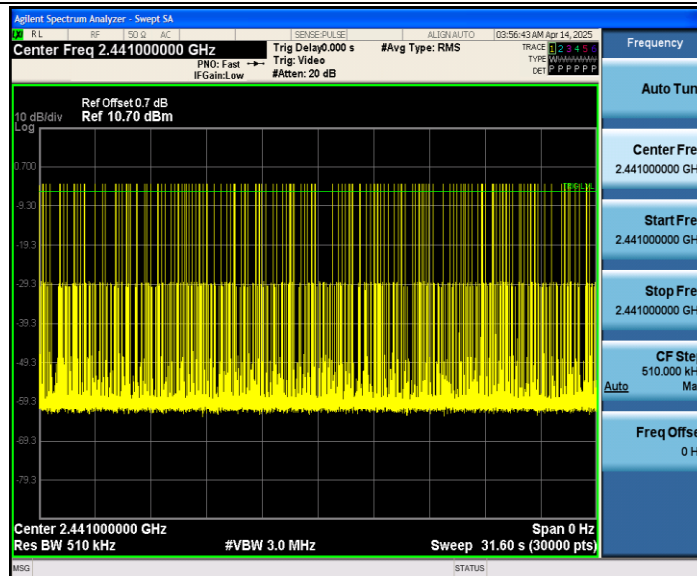




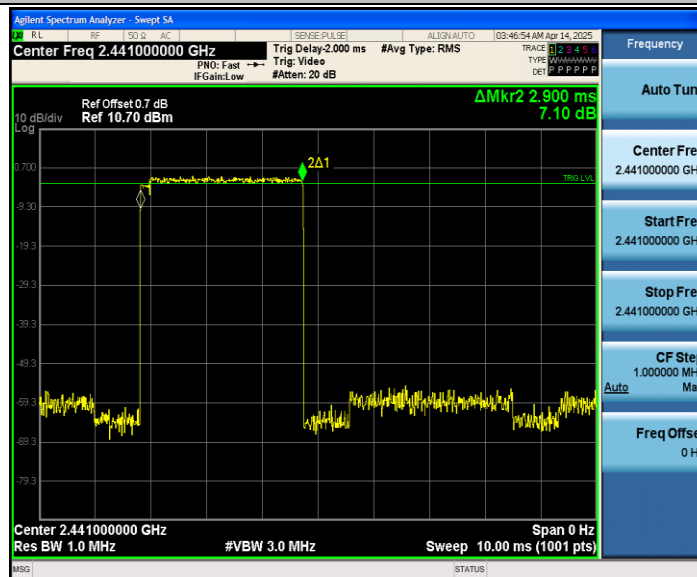
2DH1_Ant1_Hop

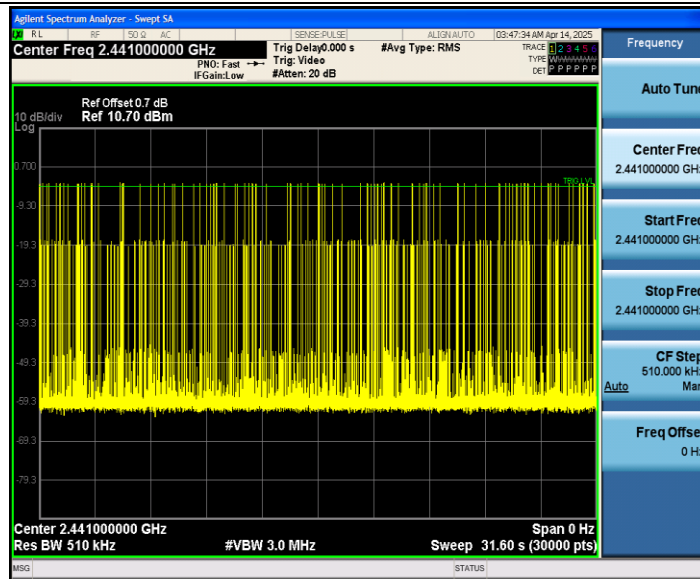


2DH3_Ant1_Hop

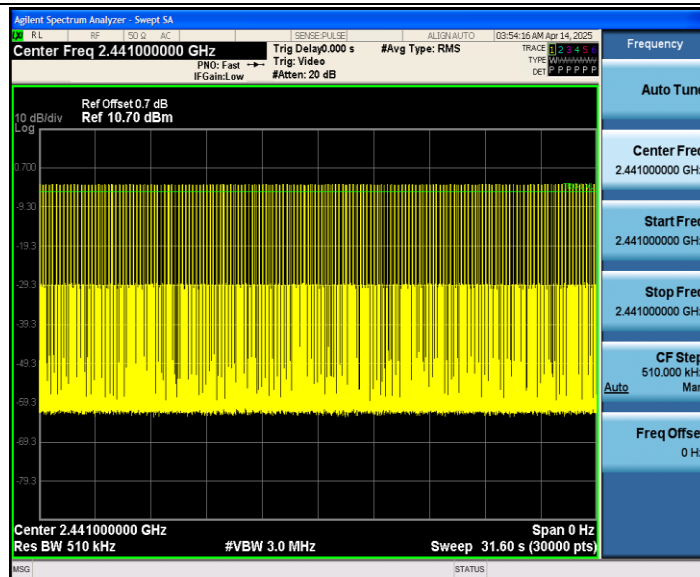
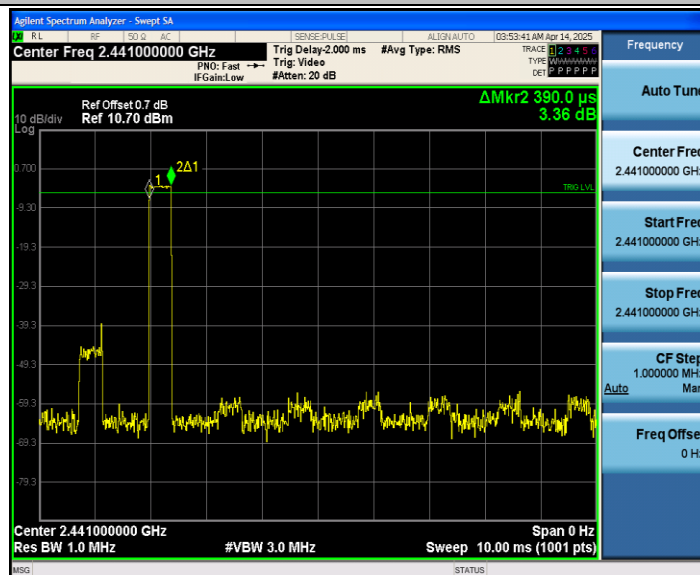


2DH5_Ant1_Hop

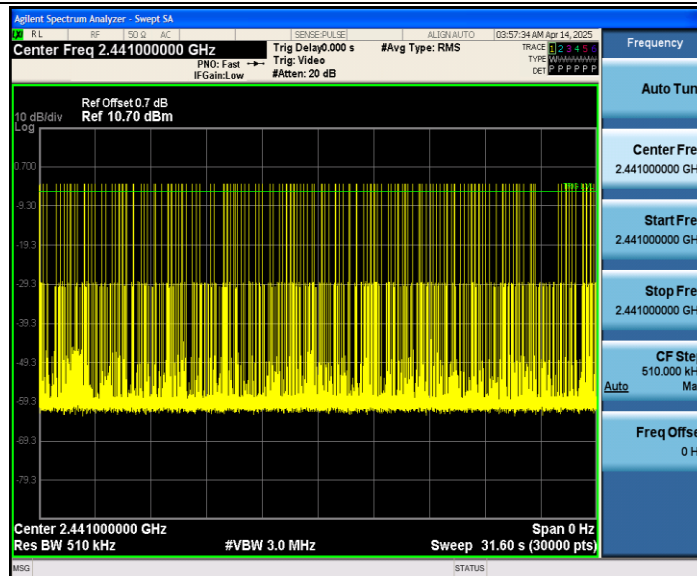




3DH1_Ant1_Hop

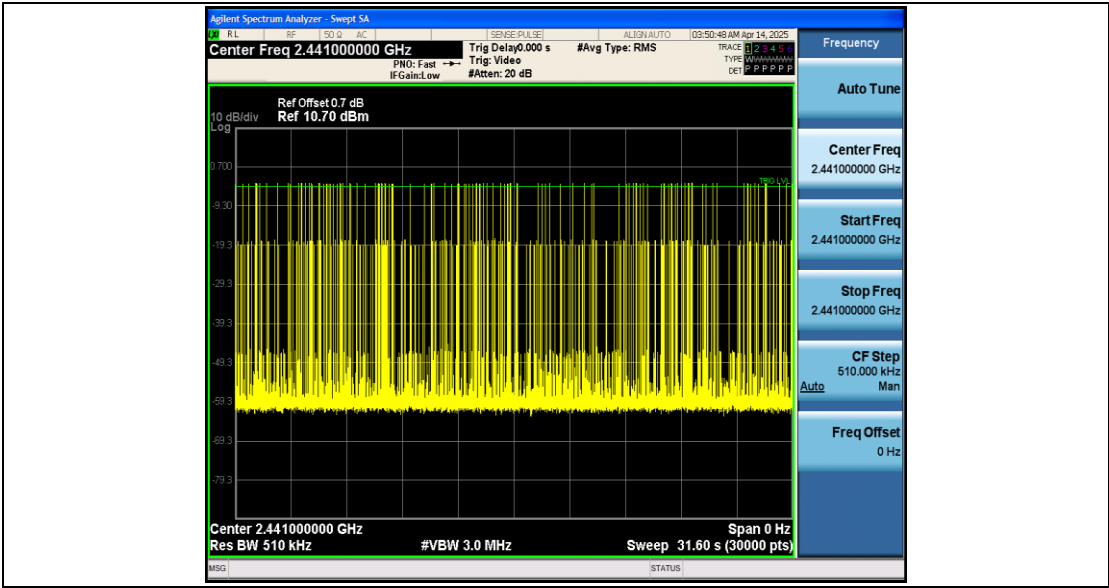


3DH3_Ant1_Hop



3DH5_Ant1_Hop



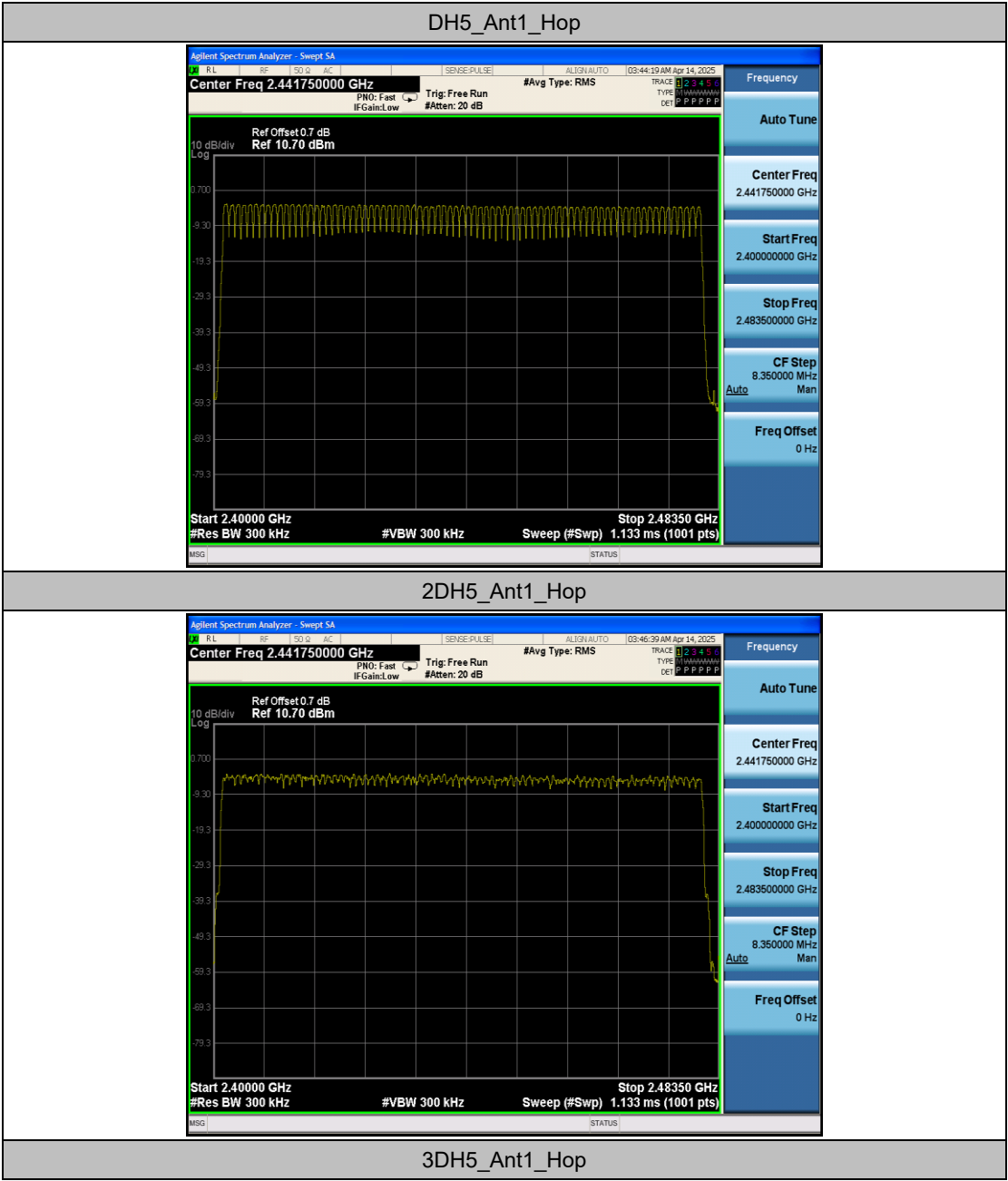


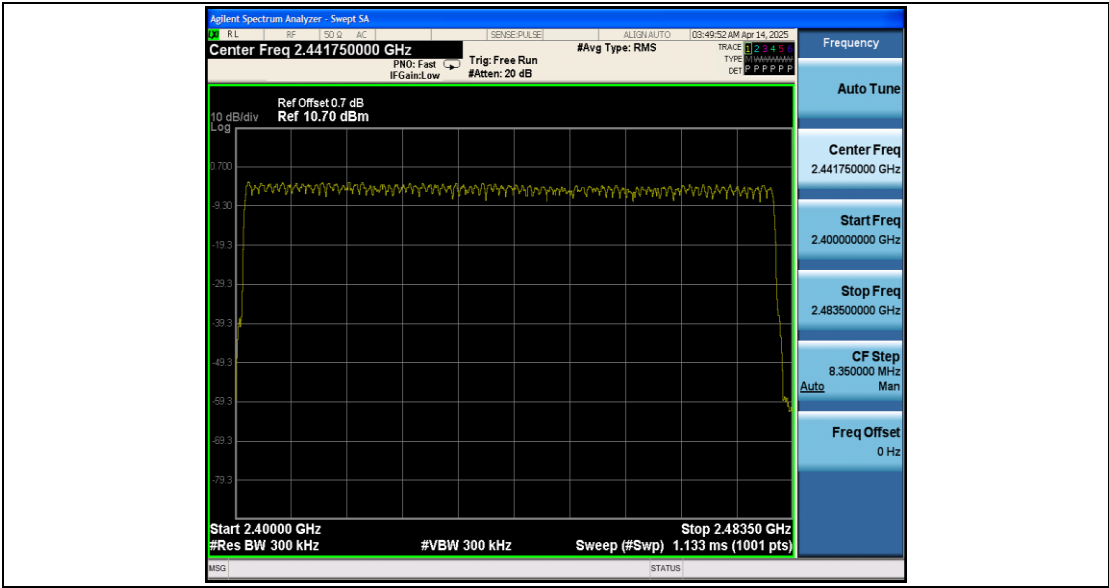
Appendix F: Number of hopping channels

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



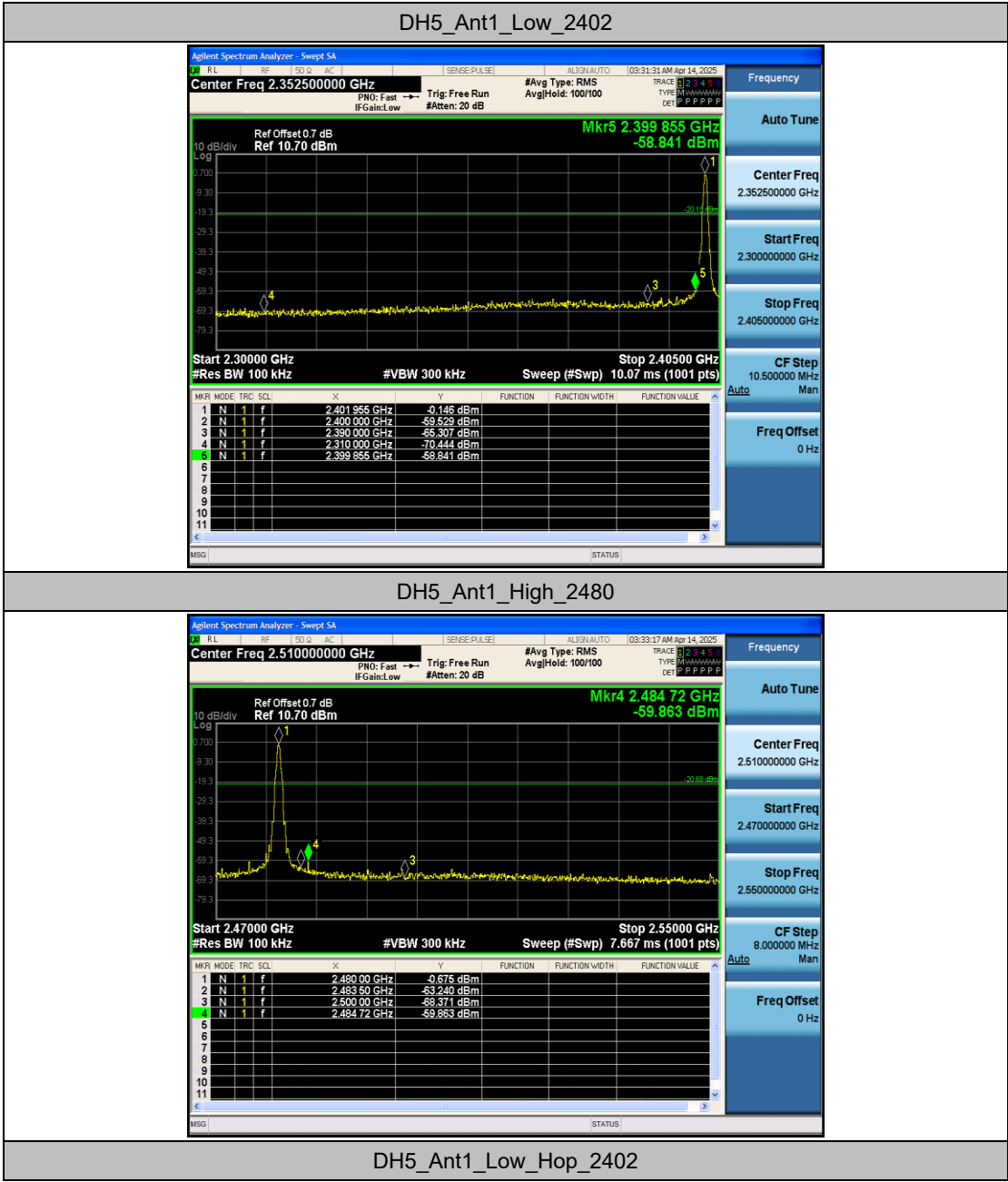


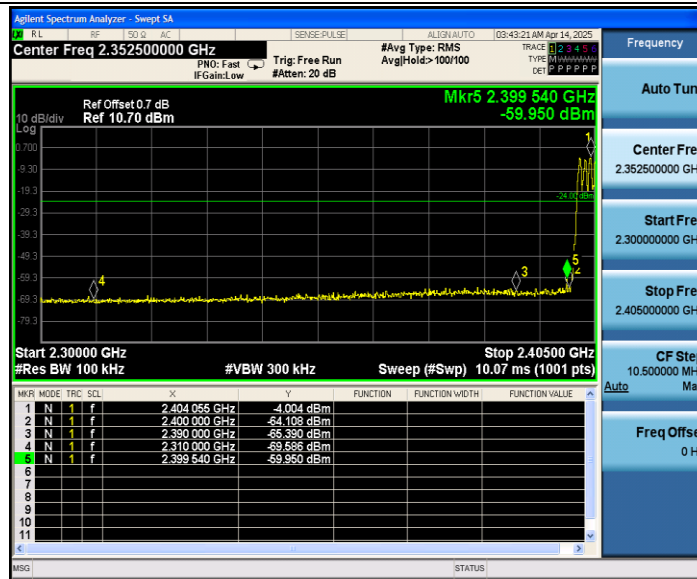
Appendix G: Band edge measurements

Test Result

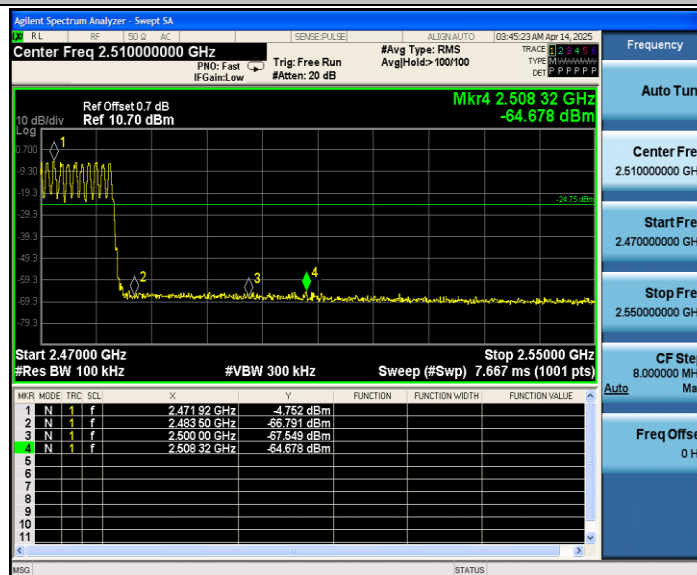
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.15	-58.84	≤-20.15	PASS
		High	2480	-0.68	-59.86	≤-20.68	PASS
		Low	Hop_2402	-4.00	-59.95	≤-24	PASS
		High	Hop_2480	-4.75	-64.68	≤-24.75	PASS
2DH5	Ant1	Low	2402	-4.56	-60.65	≤-24.56	PASS
		High	2480	-6.81	-64.12	≤-26.81	PASS
		Low	Hop_2402	-5.71	-59.99	≤-25.71	PASS
		High	Hop_2480	-5.63	-63.87	≤-25.63	PASS
3DH5	Ant1	Low	2402	-4.44	-60.65	≤-24.44	PASS
		High	2480	-4.04	-63.97	≤-24.04	PASS
		Low	Hop_2402	-6.15	-63.56	≤-26.15	PASS
		High	Hop_2480	-3.95	-56.63	≤-23.95	PASS

Test Graphs

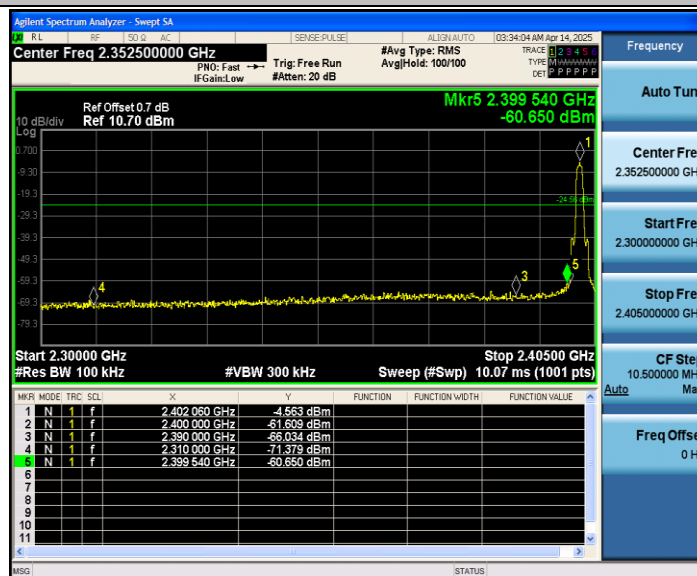




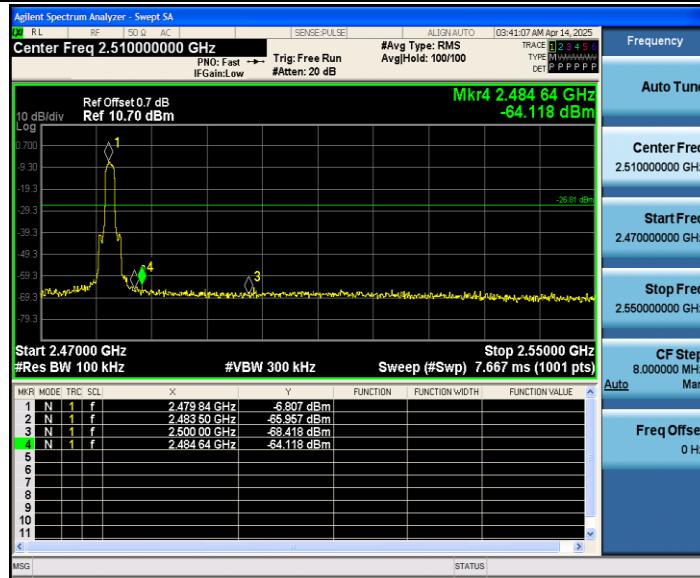
DH5_Ant1_High_Hop_2480



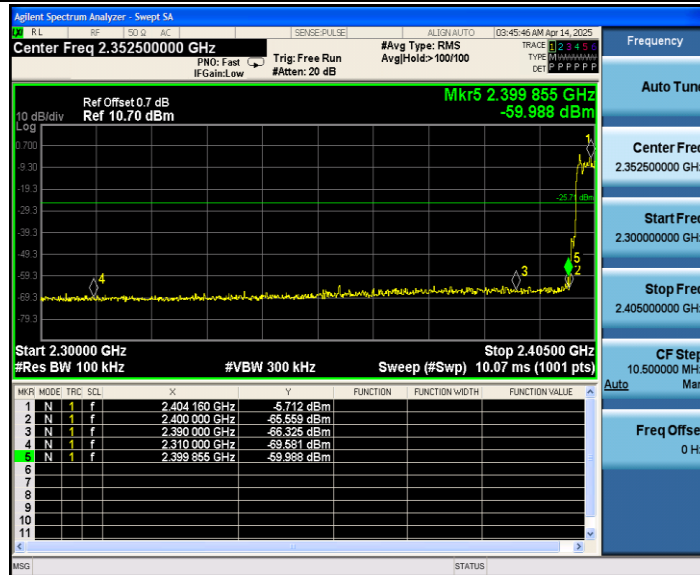
2DH5_Ant1_Low_2402



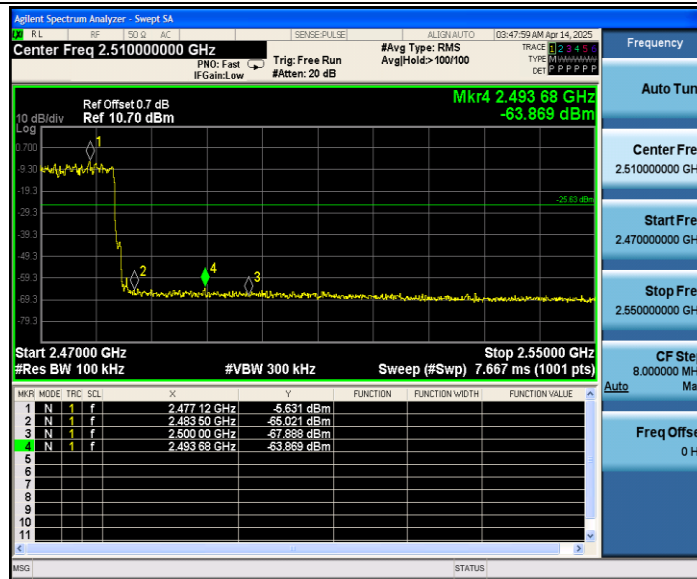
2DH5_Ant1_High_2480



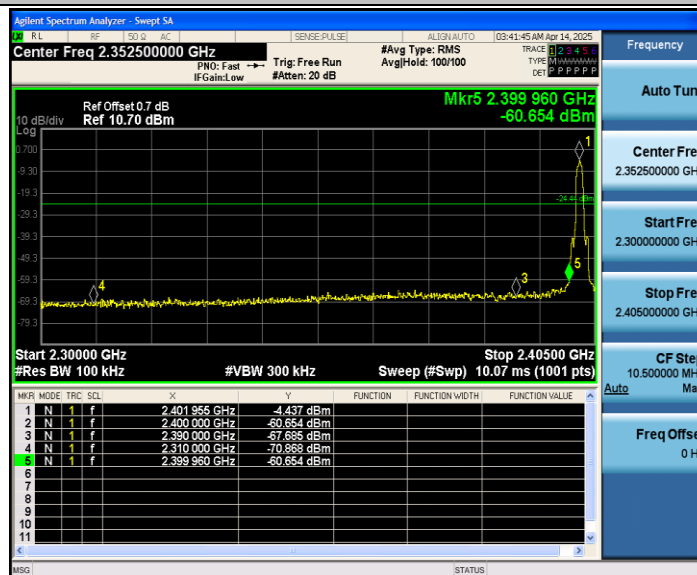
2DH5_Ant1_Low_Hop_2402



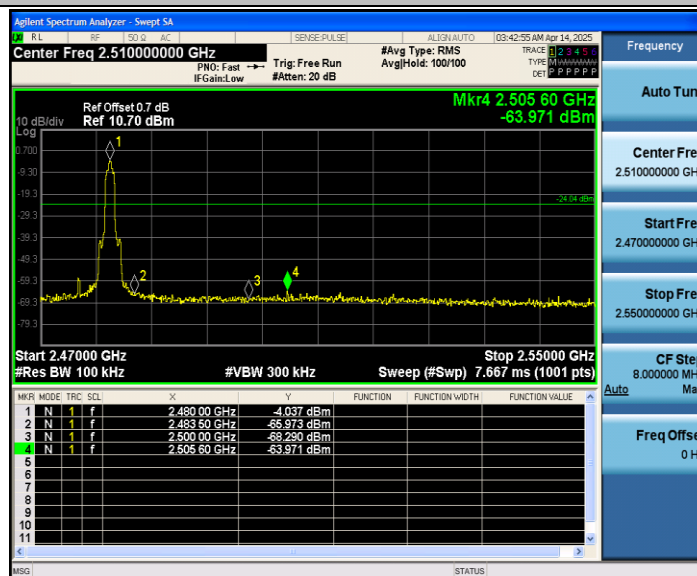
2DH5_Ant1_High_Hop_2480



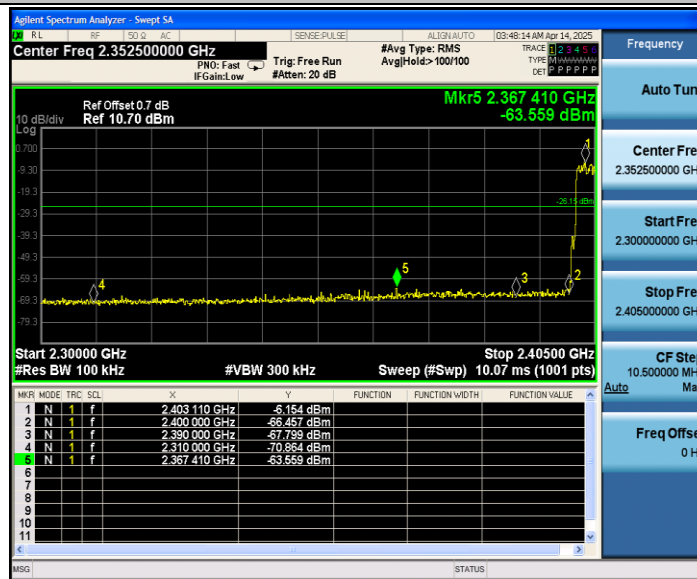
3DH5_Ant1_Low_2402



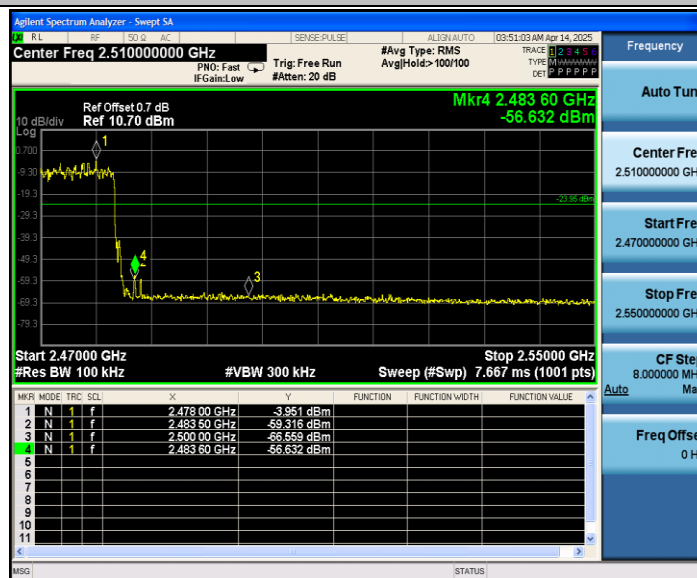
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

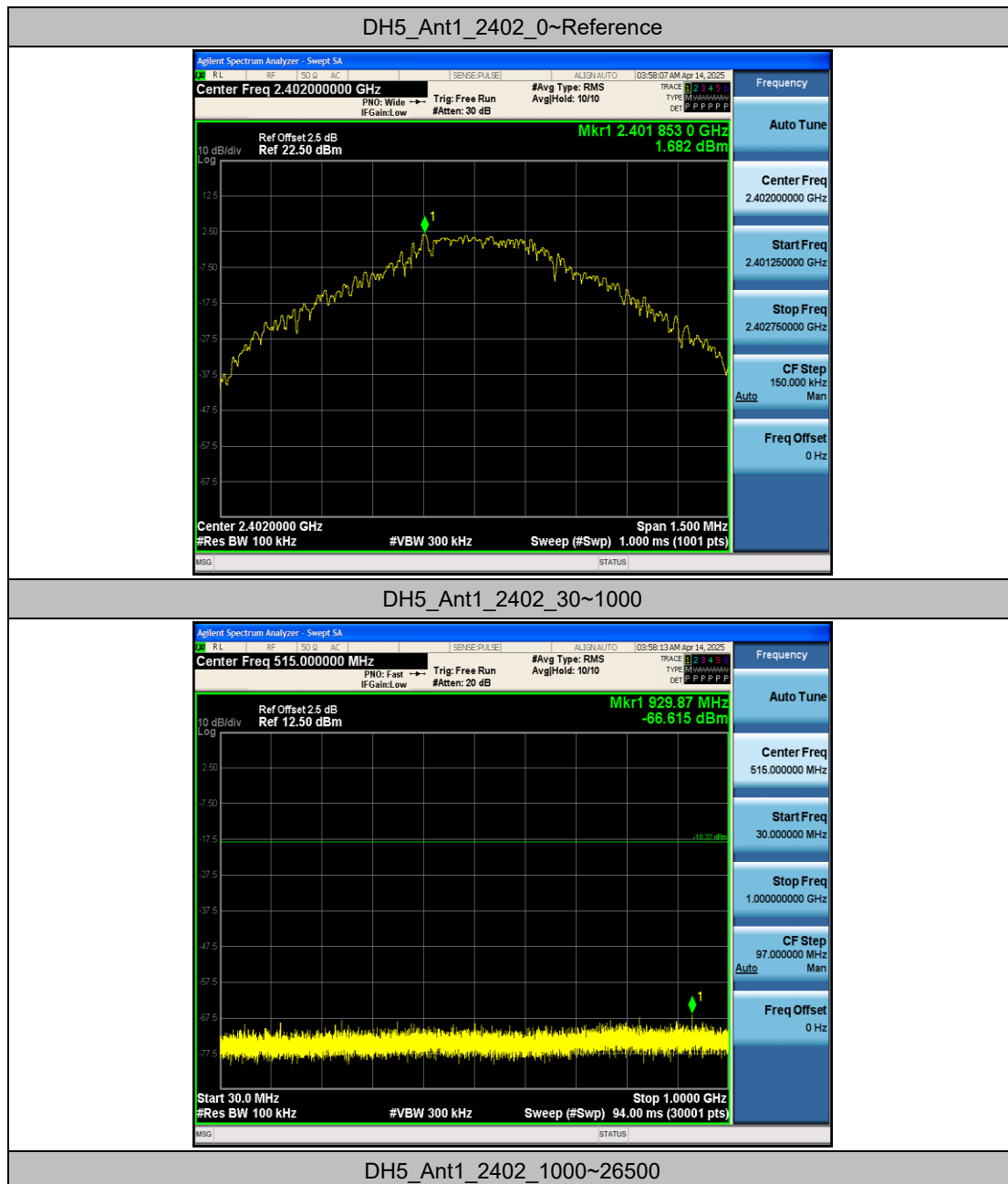


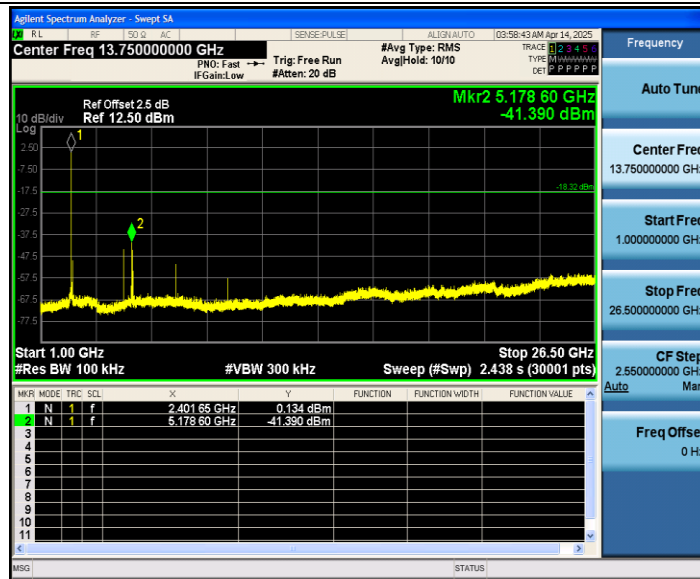
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.68	1.68	---	PASS
			30~1000	1.68	-66.62	≤-18.32	PASS
			1000~26500	1.68	-41.39	≤-18.32	PASS
		2441	Reference	0.61	0.61	---	PASS
			30~1000	0.61	-67.48	≤-19.39	PASS
			1000~26500	0.61	-44.26	≤-19.39	PASS
		2480	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-67.27	≤-19.72	PASS
			1000~26500	0.28	-44.48	≤-19.72	PASS
2DH5	Ant1	2402	Reference	-4.71	-4.71	---	PASS
			30~1000	-4.71	-68.08	≤-24.71	PASS
			1000~26500	-4.71	-47.31	≤-24.71	PASS
		2441	Reference	-3.31	-3.31	---	PASS
			30~1000	-3.31	-67.4	≤-23.31	PASS
			1000~26500	-3.31	-45.83	≤-23.31	PASS
		2480	Reference	-5.37	-5.37	---	PASS
			30~1000	-5.37	-67.25	≤-25.37	PASS
			1000~26500	-5.37	-48.16	≤-25.37	PASS
3DH5	Ant1	2402	Reference	-1.47	-1.47	---	PASS
			30~1000	-1.47	-66.94	≤-21.47	PASS
			1000~26500	-1.47	-45.82	≤-21.47	PASS
		2441	Reference	-3.08	-3.08	---	PASS
			30~1000	-3.08	-67.81	≤-23.08	PASS
			1000~26500	-3.08	-45.65	≤-23.08	PASS
		2480	Reference	-4.68	-4.68	---	PASS
			30~1000	-4.68	-66.53	≤-24.68	PASS
			1000~26500	-4.68	-45.8	≤-24.68	PASS

Test Graphs

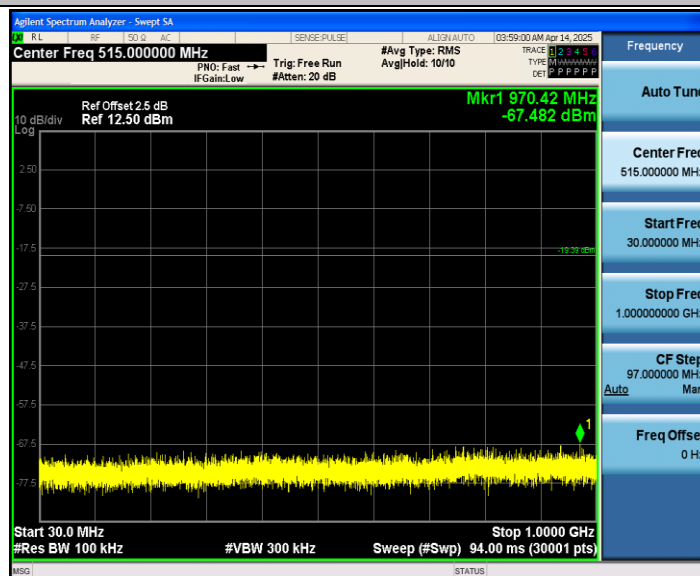




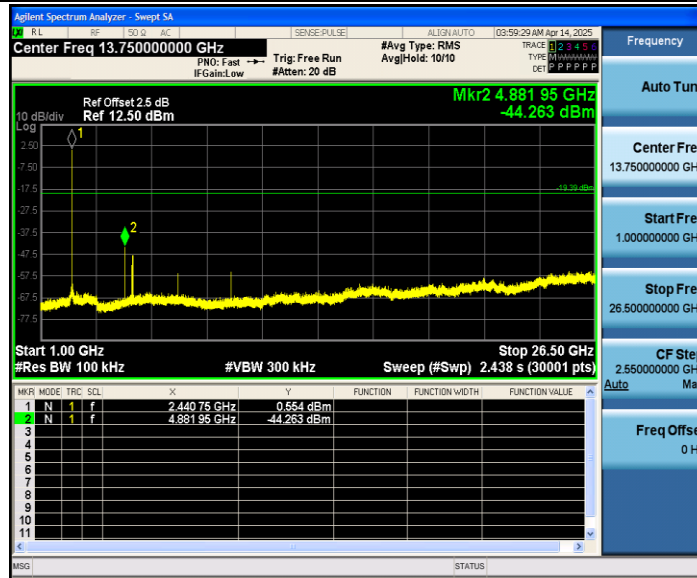
DH5_Ant1_2441_0~Reference



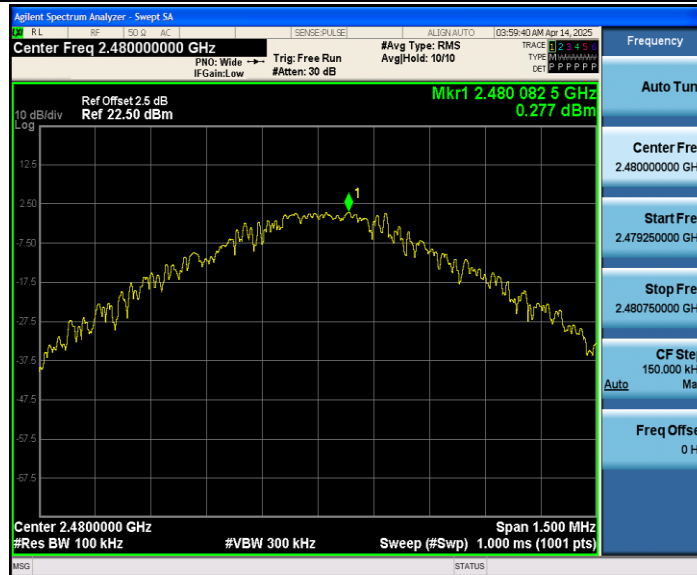
DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000