

Appendix RF Test Data for BT

FCC ID : 2BMBM-K11

Company : Shenzhen Lanxiaoer Technology Co., Ltd

EUT : Bluetooth headphones

Model Number : K11

Report No. : CTA25081100701

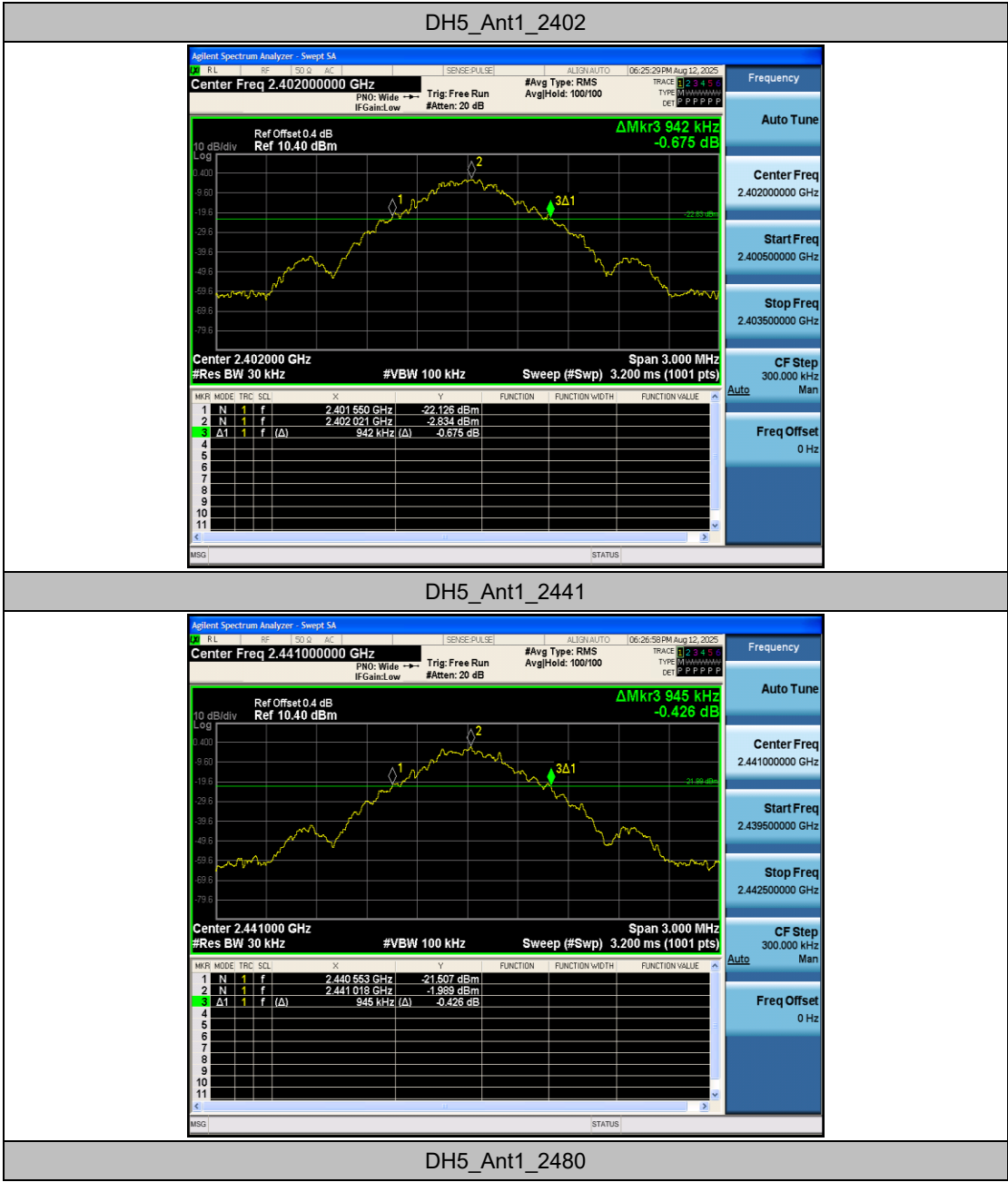
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.550	2402.492	---	---
		2441	0.945	2440.553	2441.498	---	---
		2480	0.939	2479.553	2480.492	---	---
2DH5	Ant1	2402	1.326	2401.346	2402.672	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.341	2479.340	2480.681	---	---
3DH5	Ant1	2402	1.281	2401.370	2402.651	---	---
		2441	1.299	2440.364	2441.663	---	---
		2480	1.311	2479.358	2480.669	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



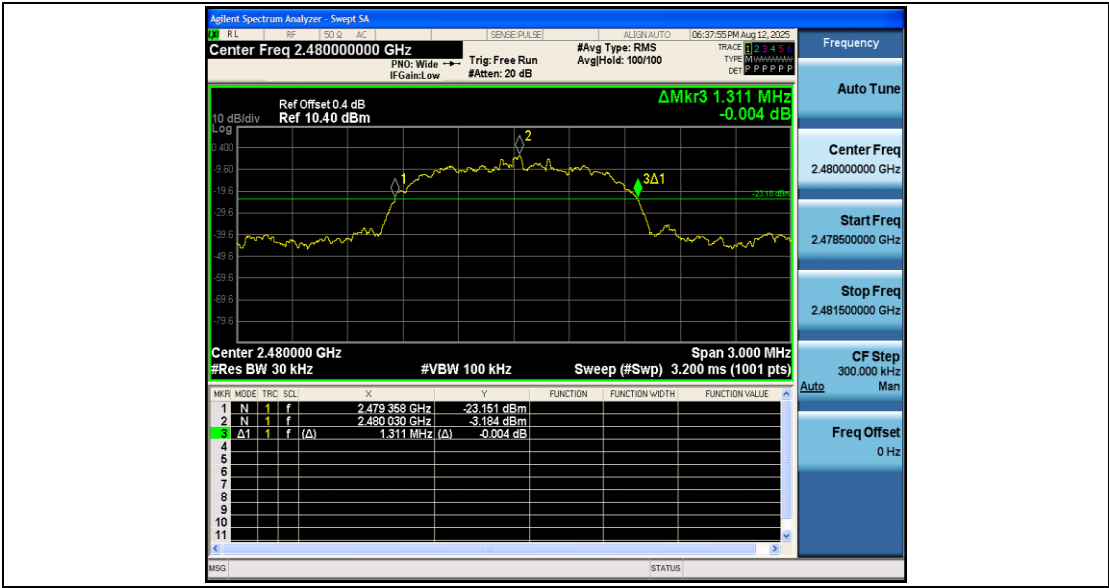
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

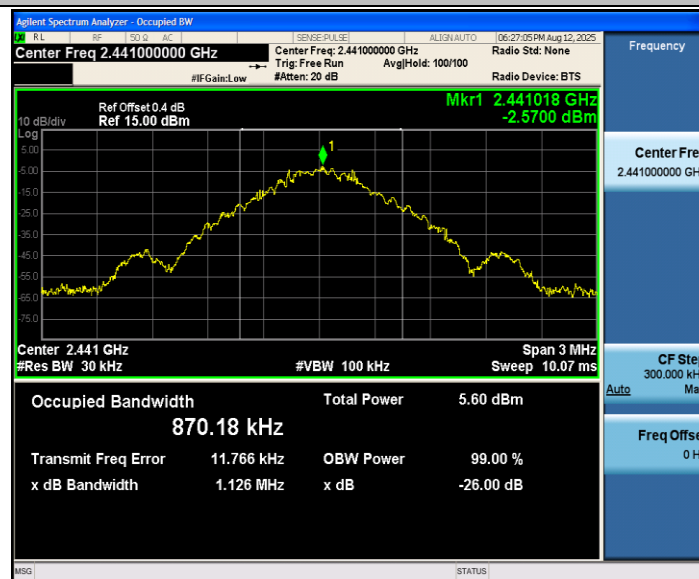
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86605	2401.5775	2402.4436	---	---
		2441	0.87018	2440.5767	2441.4469	---	---
		2480	0.87896	2479.5748	2480.4537	---	---
2DH5	Ant1	2402	1.1902	2401.4155	2402.6057	---	---
		2441	1.1886	2440.4165	2441.6051	---	---
		2480	1.1939	2479.4143	2480.6082	---	---
3DH5	Ant1	2402	1.1920	2401.4138	2402.6058	---	---
		2441	1.1908	2440.4141	2441.6049	---	---
		2480	1.1923	2479.4141	2480.6064	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



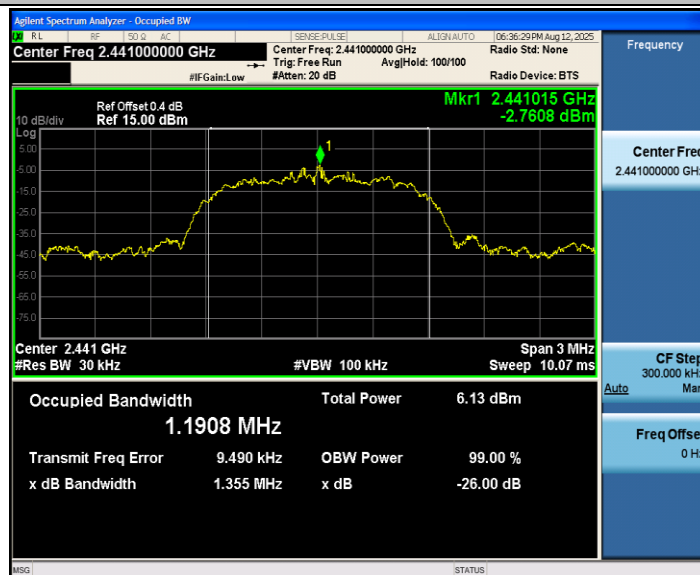
2DH5_Ant1_2480



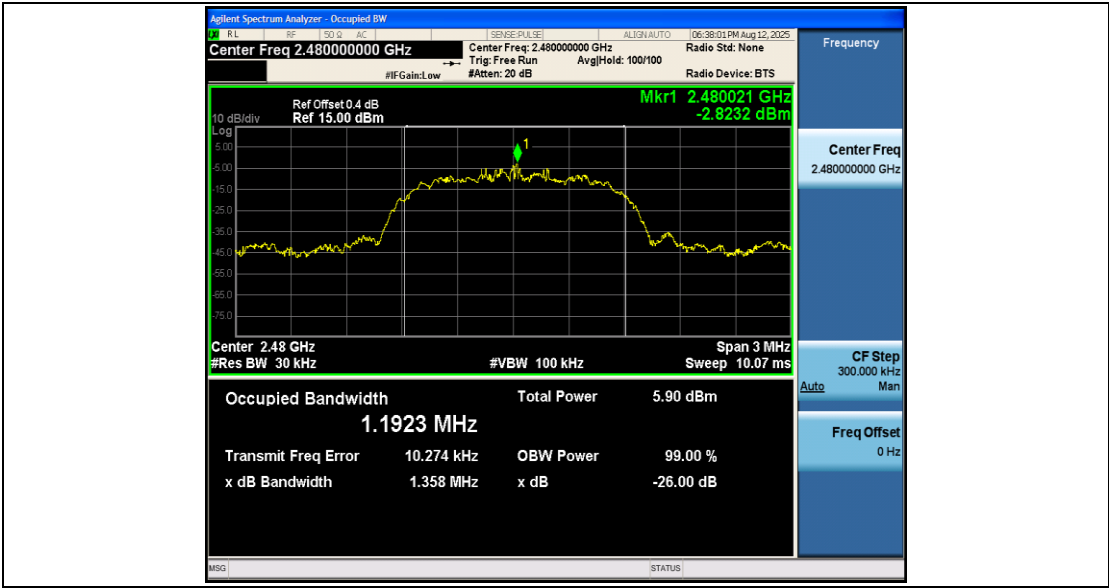
3DH5_Ant1_2402



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	-0.03	≤20.97	PASS
		2441	-0.29	≤20.97	PASS
		2480	-0.38	≤20.97	PASS
2DH5	Ant1	2402	2.70	≤20.97	PASS
		2441	2.38	≤20.97	PASS
		2480	2.32	≤20.97	PASS
3DH5	Ant1	2402	3.17	≤20.97	PASS
		2441	2.80	≤20.97	PASS
		2480	2.69	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.945	PASS
2DH5	Ant1	Hop	1.172	≥ 0.894	PASS
3DH5	Ant1	Hop	1.244	≥ 0.874	PASS

Test Graphs



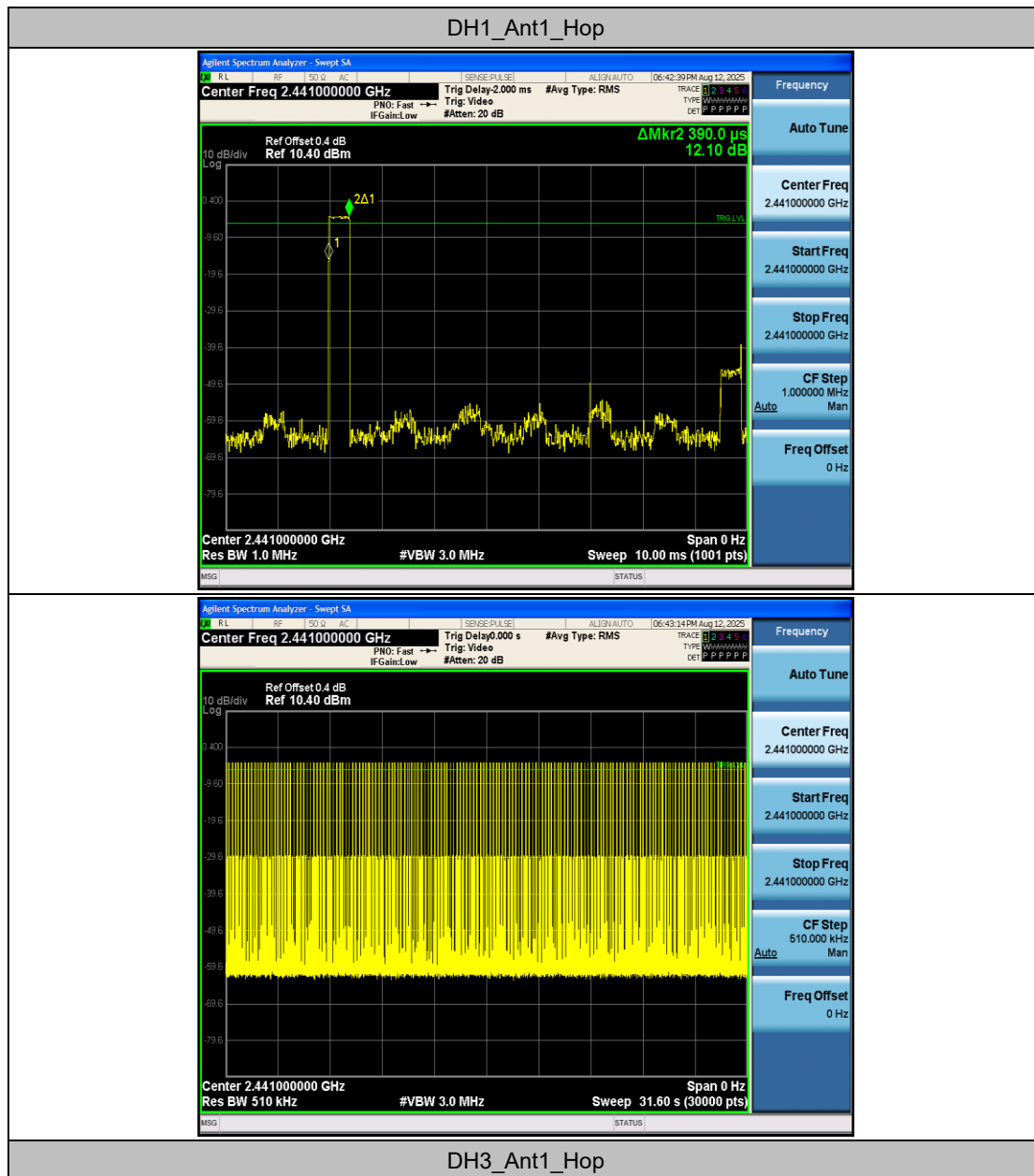


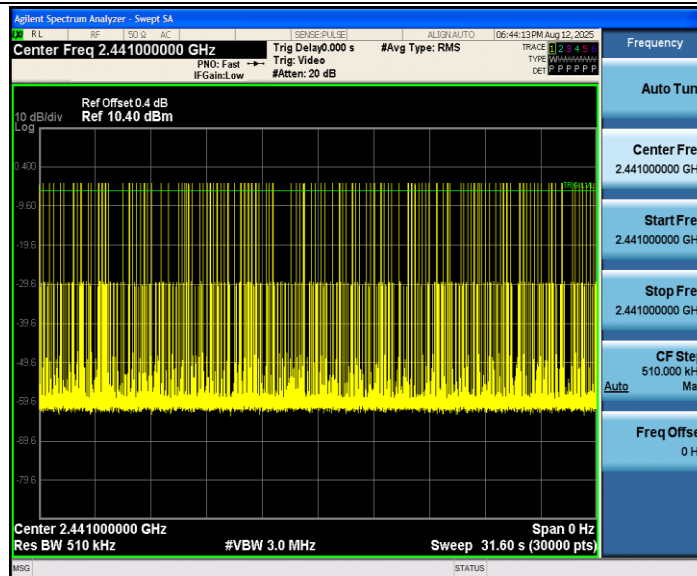
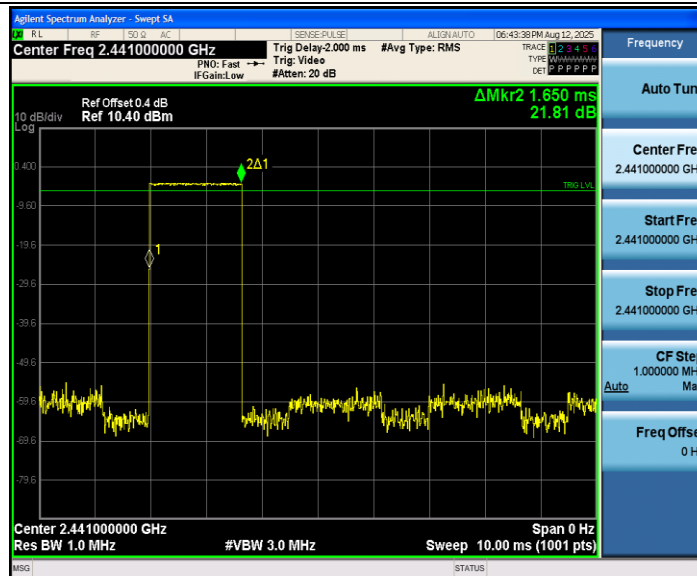
Appendix E: Time of occupancy

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	152	0.251	≤0.4	PASS
DH5	Ant1	Hop	2.890	115	0.332	≤0.4	PASS
2DH1	Ant1	Hop	0.400	316	0.126	≤0.4	PASS
2DH3	Ant1	Hop	1.650	162	0.267	≤0.4	PASS
2DH5	Ant1	Hop	2.900	106	0.307	≤0.4	PASS
3DH1	Ant1	Hop	0.400	317	0.127	≤0.4	PASS
3DH3	Ant1	Hop	1.650	169	0.279	≤0.4	PASS
3DH5	Ant1	Hop	2.900	110	0.319	≤0.4	PASS

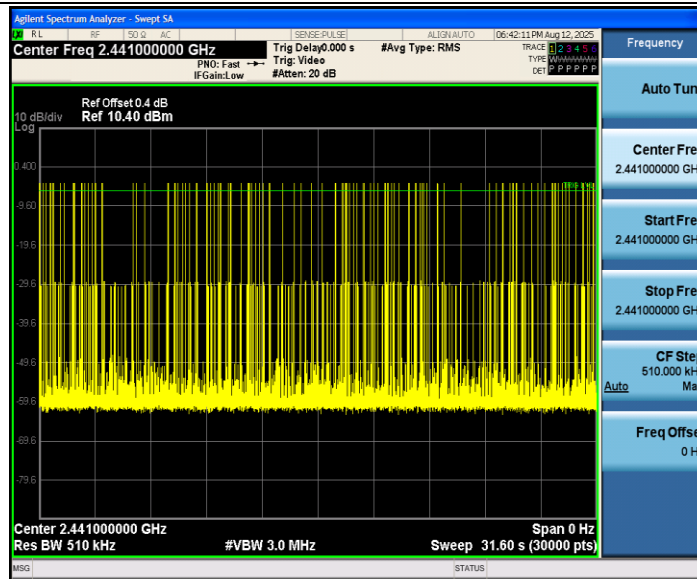
Test Graphs



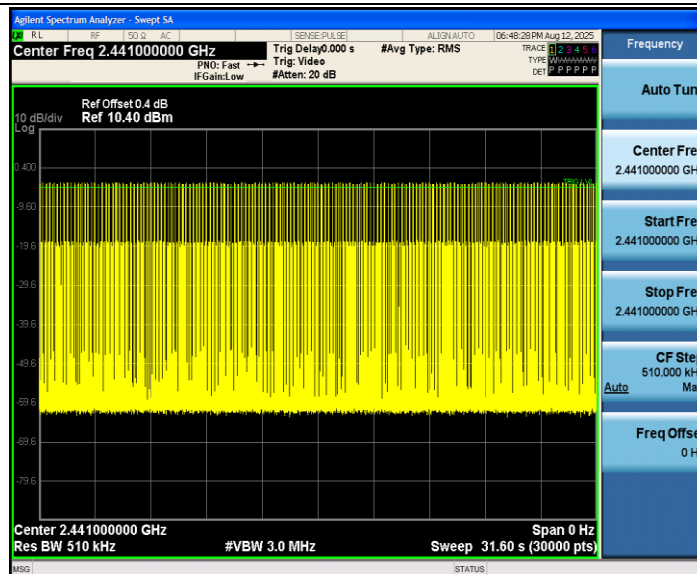
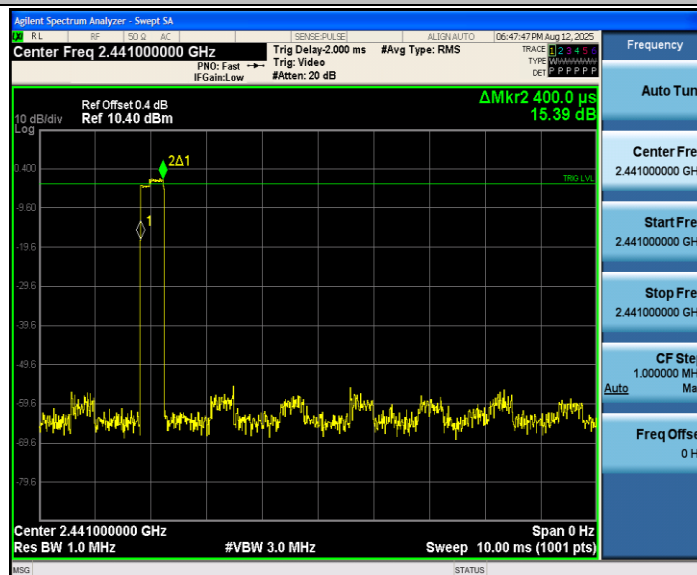


DH5_Ant1_Hop

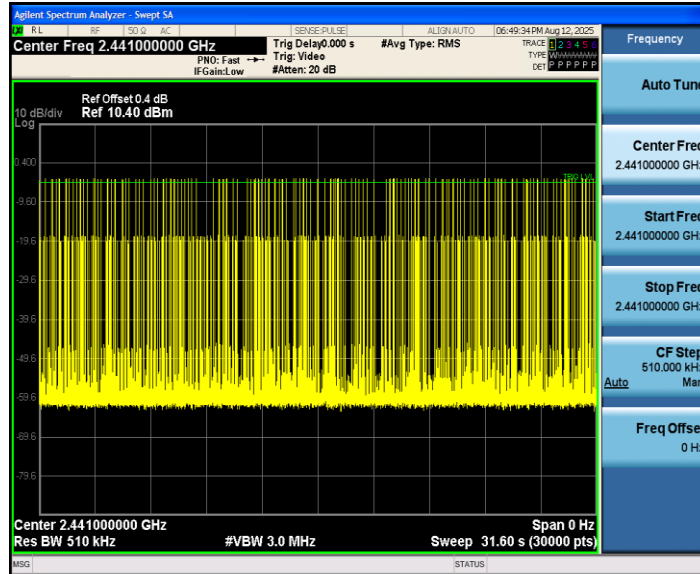




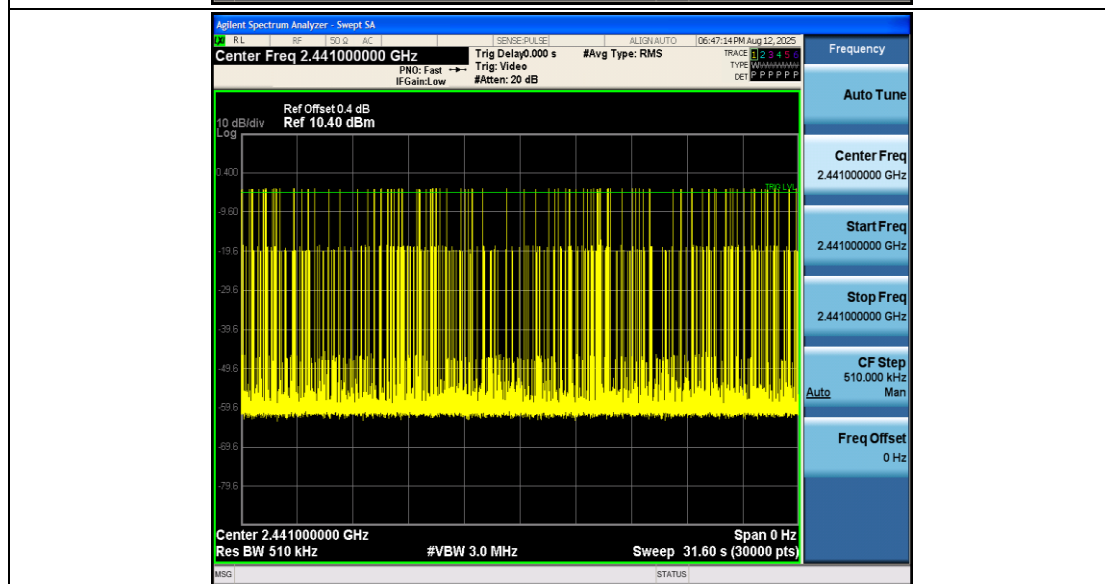
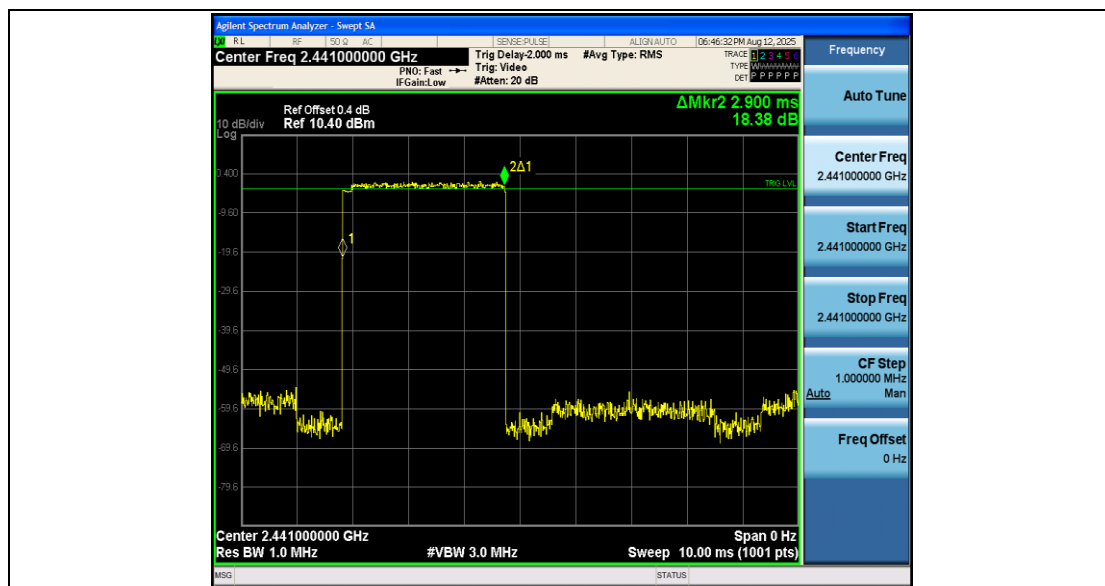
2DH1_Ant1_Hop



2DH3_Ant1_Hop

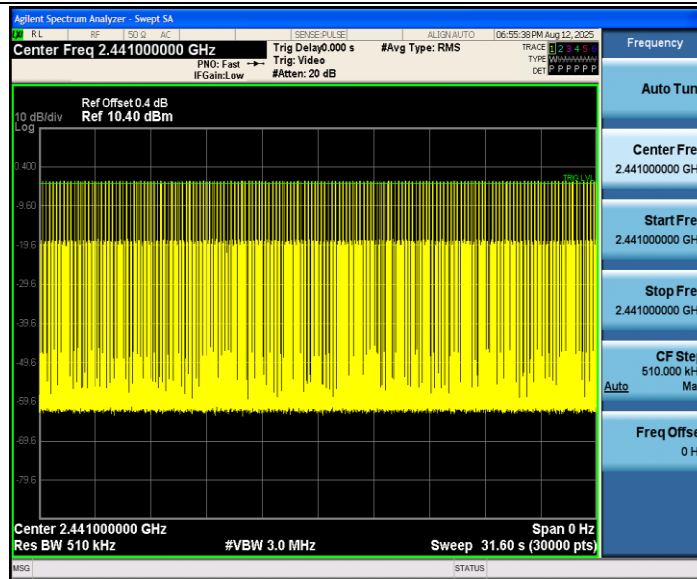


2DH5_Ant1_Hop

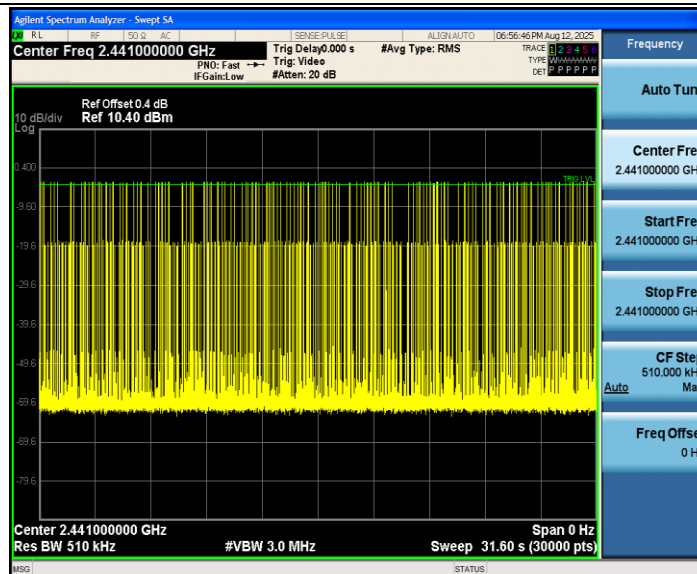
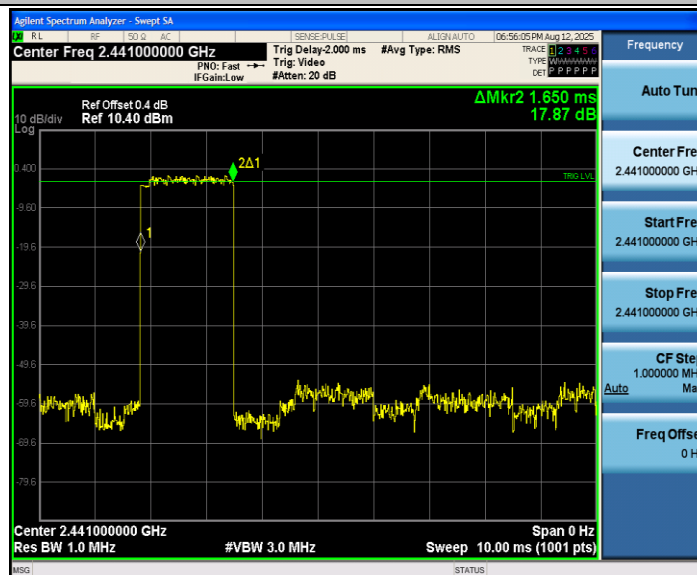


3DH1_Ant1_Hop

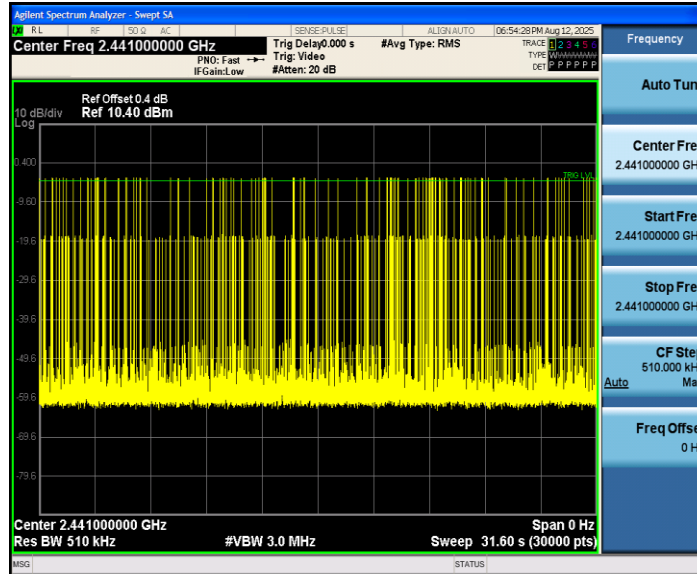
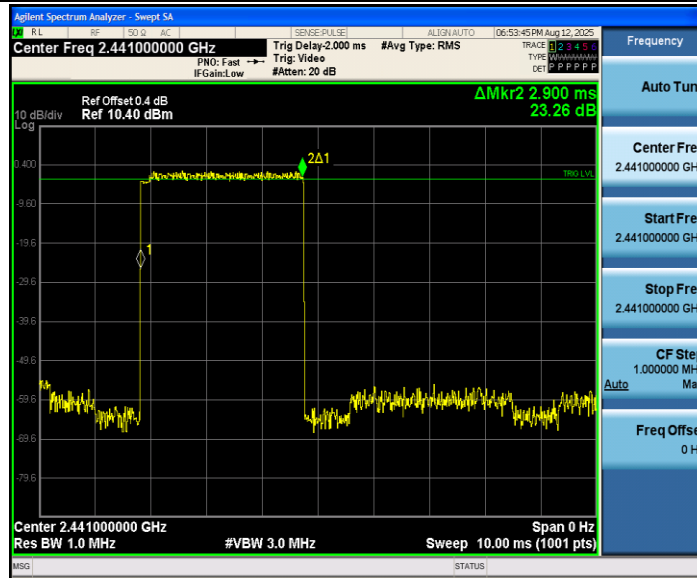




3DH3_Ant1_Hop



3DH5_Ant1_Hop



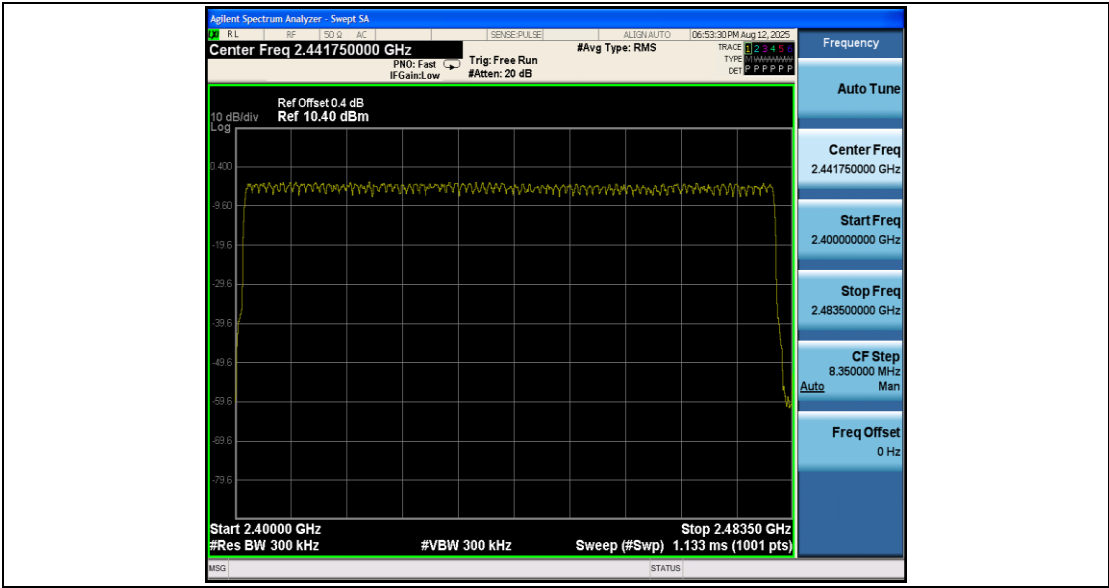
Appendix F: Number of hopping channels

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



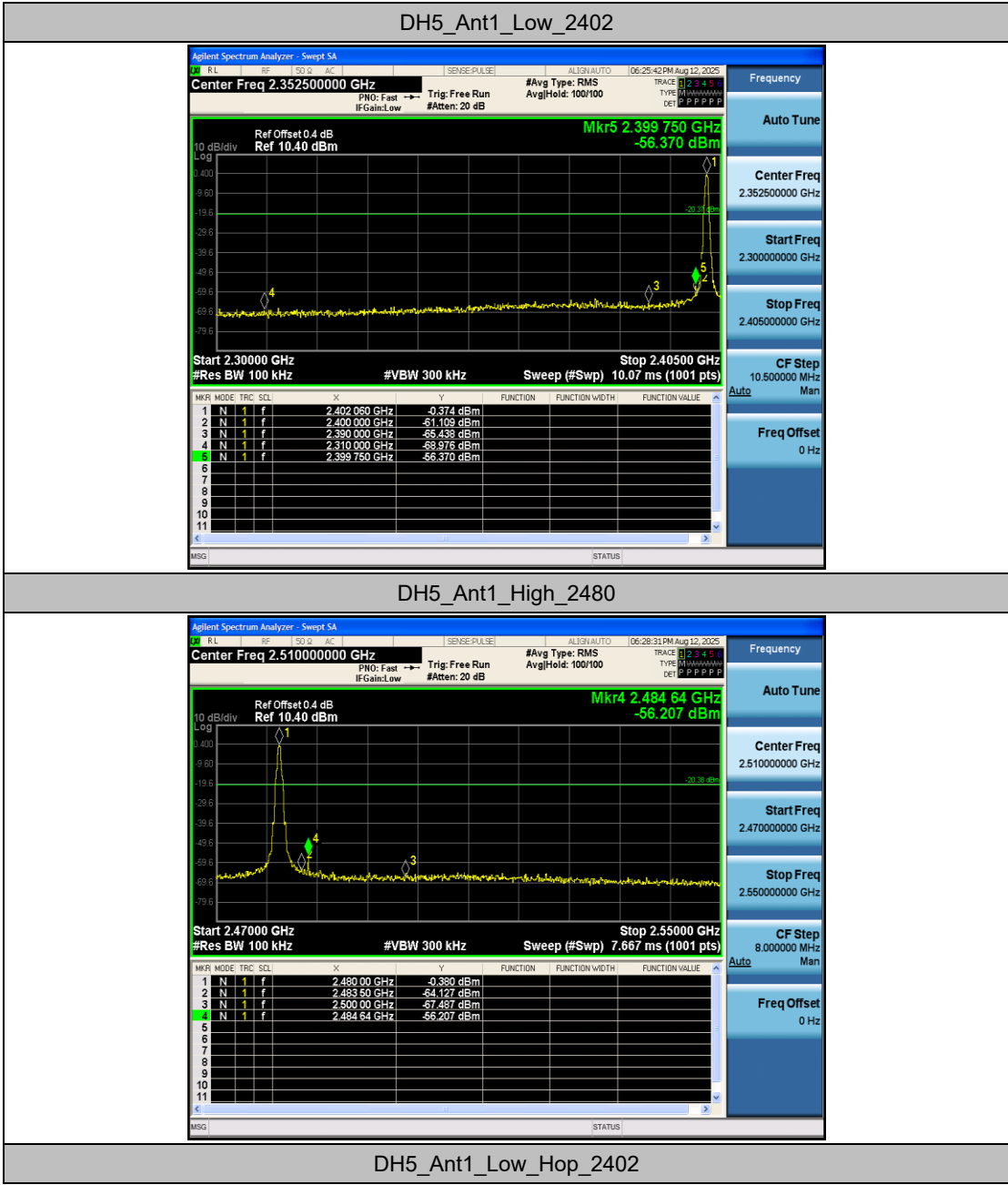


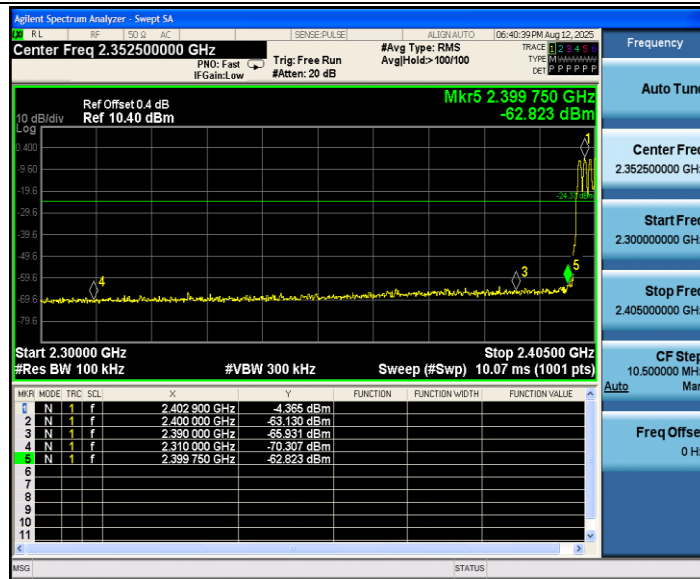
Appendix G: Band edge measurements

Test Result

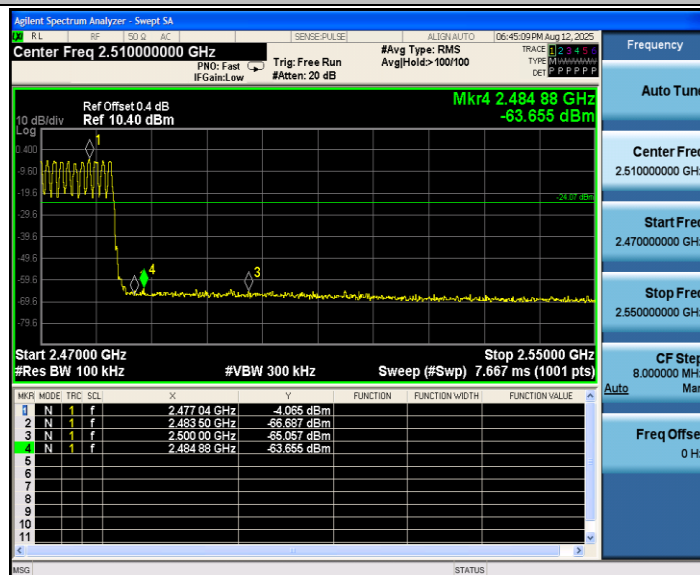
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.37	-56.37	≤-20.37	PASS
		High	2480	-0.38	-56.21	≤-20.38	PASS
		Low	Hop_2402	-4.37	-62.82	≤-24.37	PASS
		High	Hop_2480	-4.07	-63.66	≤-24.07	PASS
2DH5	Ant1	Low	2402	-1.05	-50.63	≤-21.05	PASS
		High	2480	-0.93	-54.44	≤-20.93	PASS
		Low	Hop_2402	-6.10	-61.81	≤-26.1	PASS
		High	Hop_2480	-3.87	-63.91	≤-23.87	PASS
3DH5	Ant1	Low	2402	-0.13	-51.3	≤-20.13	PASS
		High	2480	-1.64	-52.5	≤-21.64	PASS
		Low	Hop_2402	-6.76	-63.35	≤-26.76	PASS
		High	Hop_2480	-5.34	-63.33	≤-25.34	PASS

Test Graphs

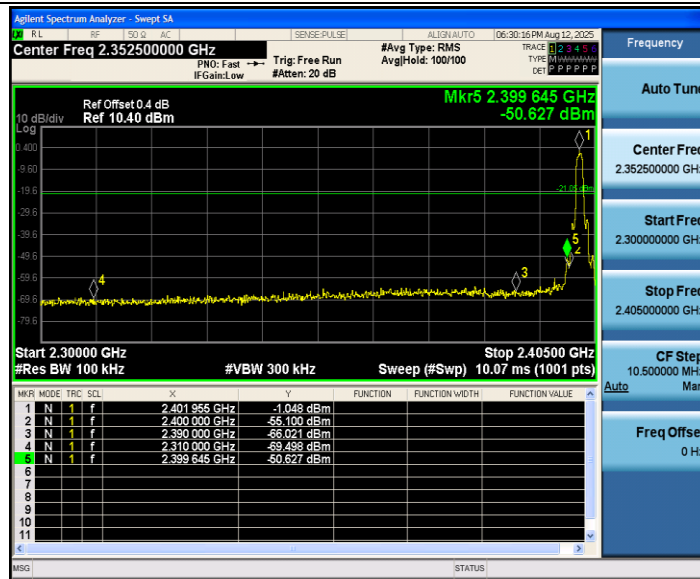




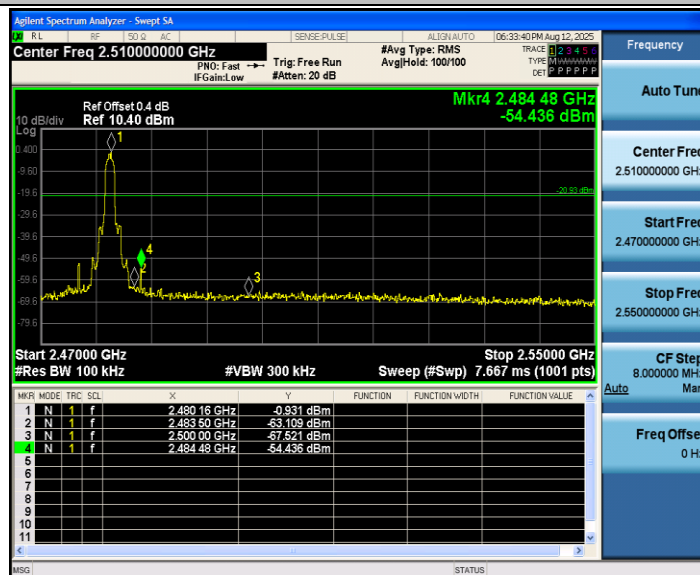
DH5_Ant1_High_Hop_2480



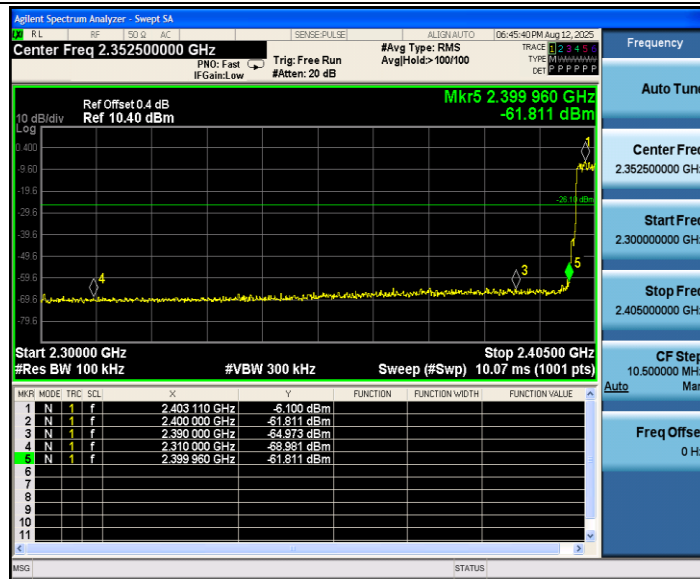
2DH5_Ant1_Low_2402



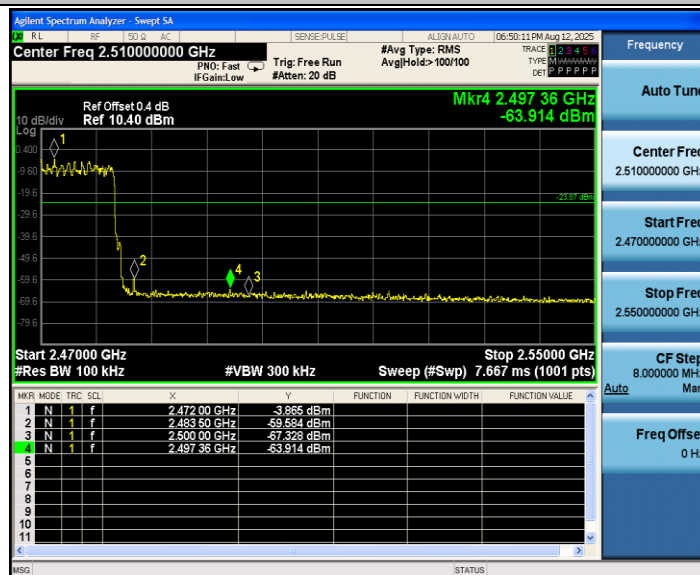
2DH5_Ant1_High_2480



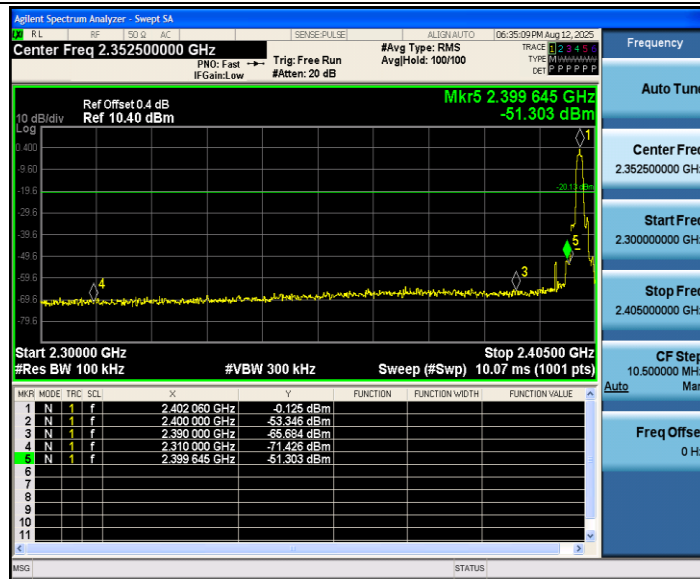
2DH5_Ant1_Low_Hop_2402



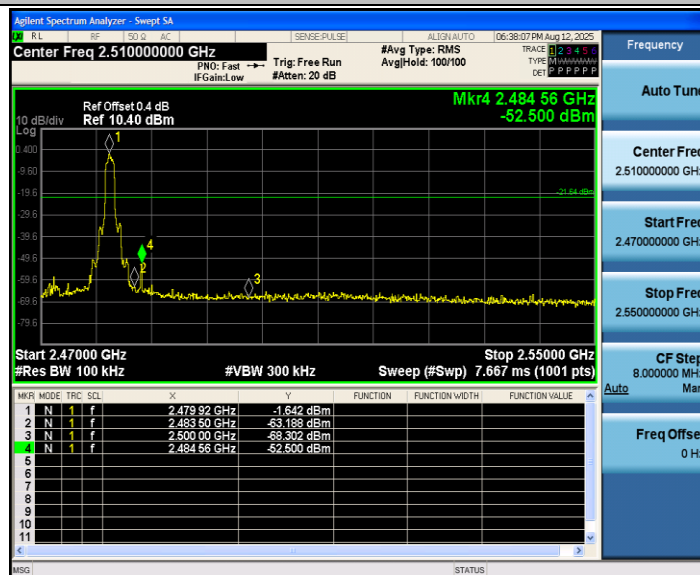
2DH5_Ant1_High_Hop_2480



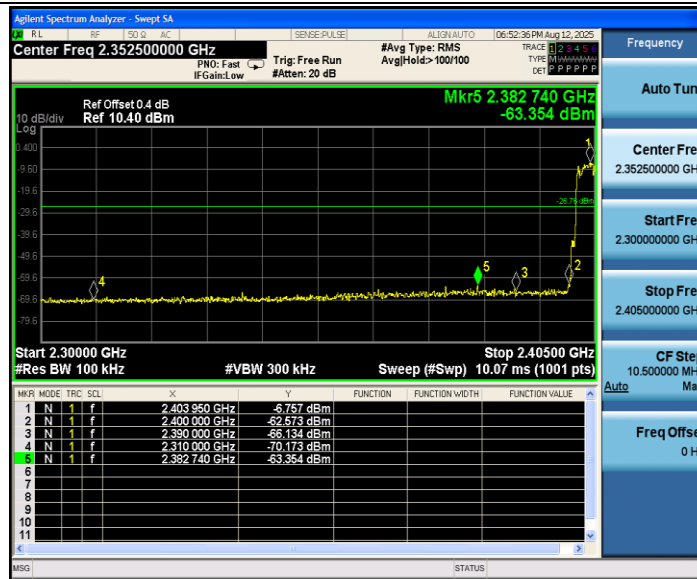
3DH5_Ant1_Low_2402



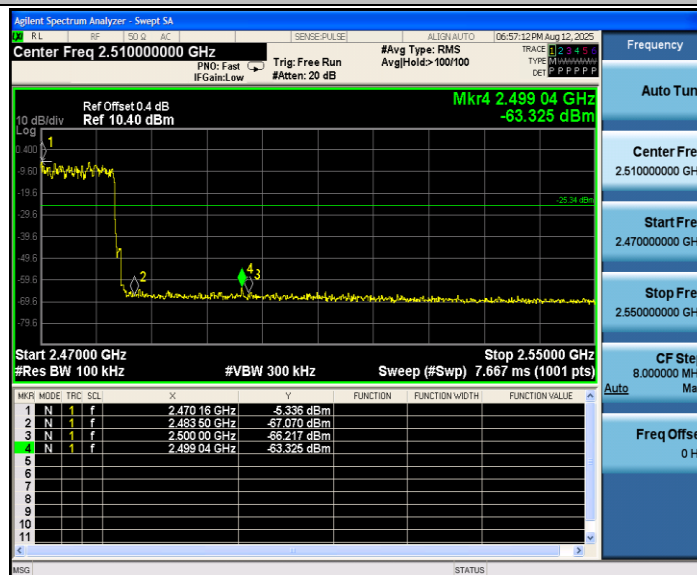
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

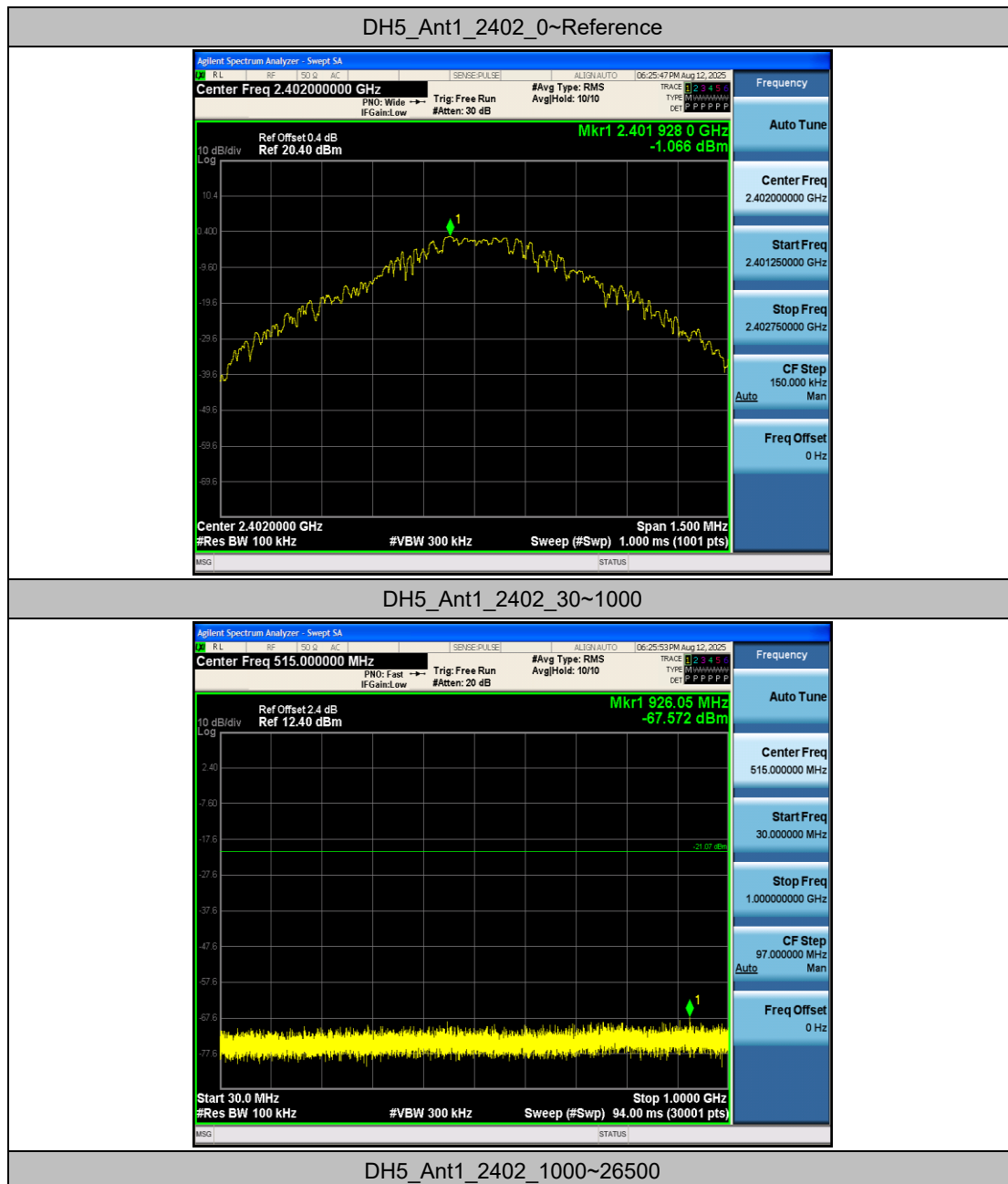


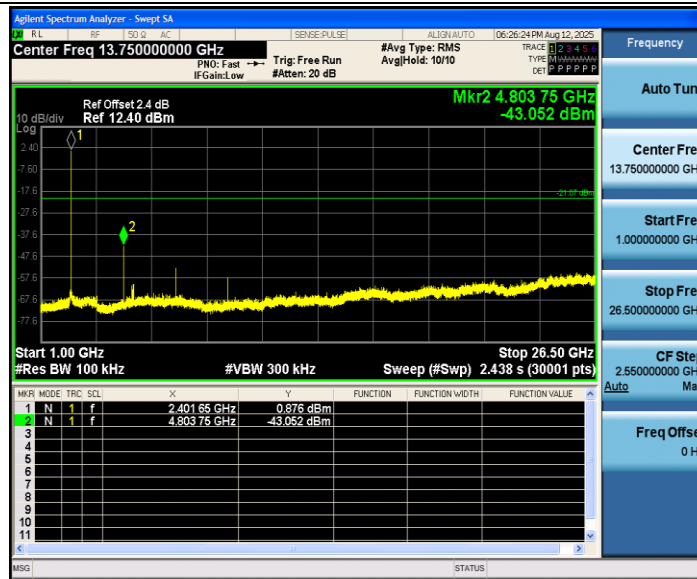
Appendix H: Conducted Spurious Emission

Test Result

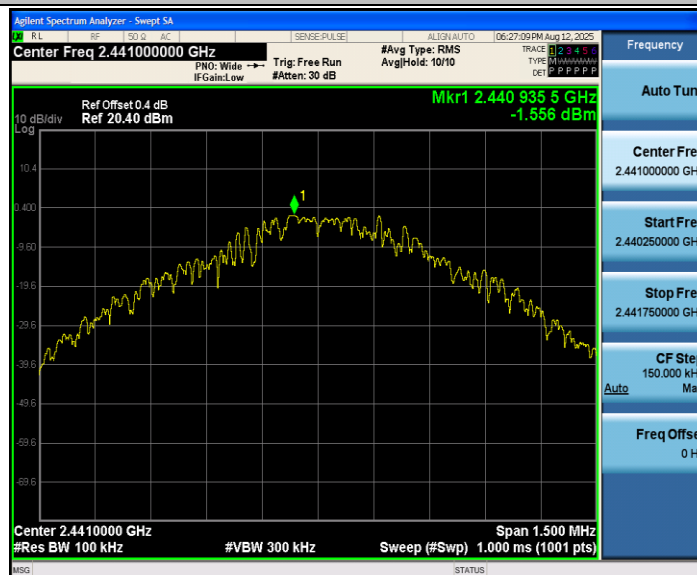
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-67.57	≤-21.07	PASS
			1000~26500	-1.07	-43.05	≤-21.07	PASS
		2441	Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-67.69	≤-21.56	PASS
			1000~26500	-1.56	-44.72	≤-21.56	PASS
		2480	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-66.94	≤-21.29	PASS
			1000~26500	-1.29	-43.28	≤-21.29	PASS
2DH5	Ant1	2402	Reference	-1.85	-1.85	---	PASS
			30~1000	-1.85	-67.59	≤-21.85	PASS
			1000~26500	-1.85	-42.89	≤-21.85	PASS
		2441	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-57.05	≤-21.92	PASS
			1000~26500	-1.92	-45.43	≤-21.92	PASS
		2480	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-68.4	≤-21.09	PASS
			1000~26500	-1.09	-45.74	≤-21.09	PASS
3DH5	Ant1	2402	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-67.86	≤-20.91	PASS
			1000~26500	-0.91	-44.92	≤-20.91	PASS
		2441	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-48.27	≤-21.32	PASS
			1000~26500	-1.32	-45.6	≤-21.32	PASS
		2480	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-66.71	≤-20.83	PASS
			1000~26500	-0.83	-43.82	≤-20.83	PASS

Test Graphs

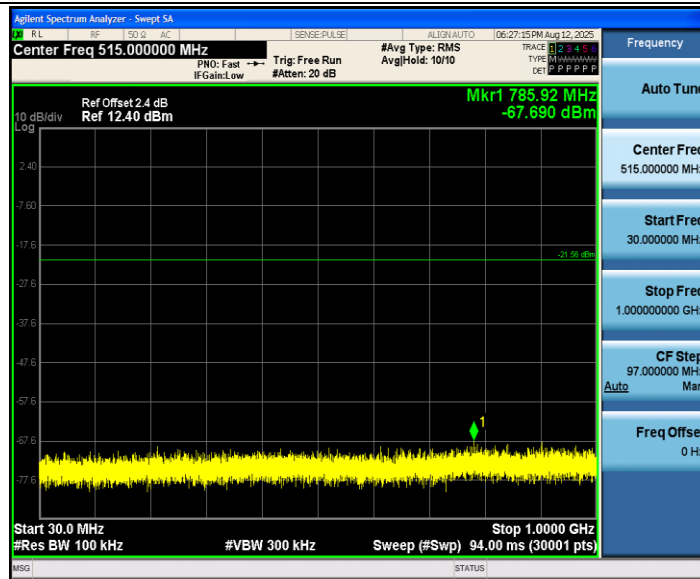




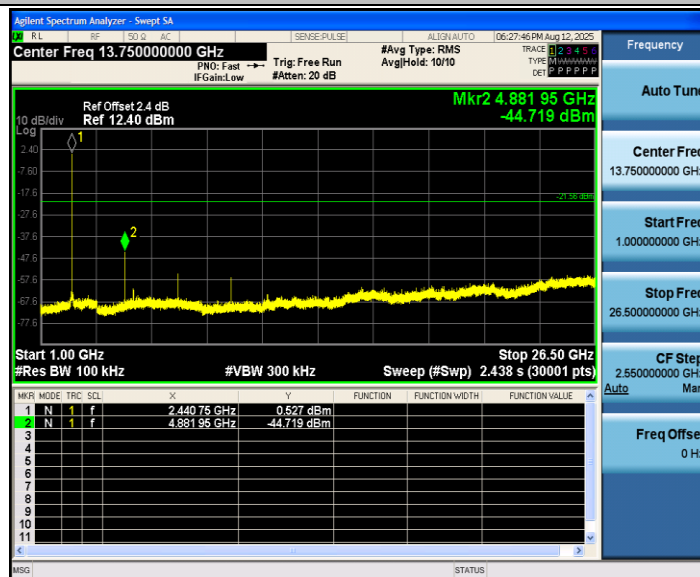
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



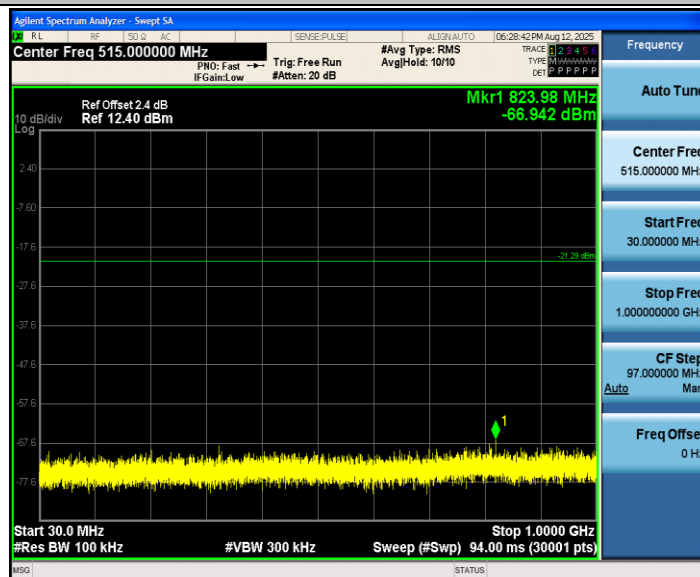
DH5_Ant1_2441_1000~26500



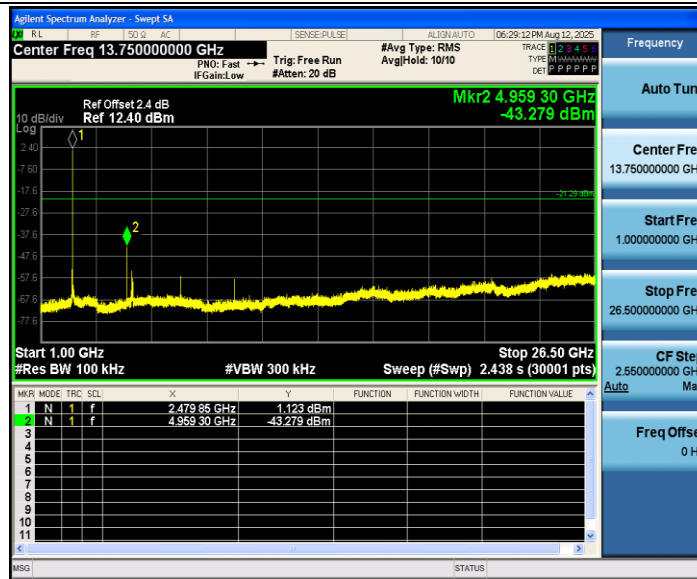
DH5_Ant1_2480_0~Reference



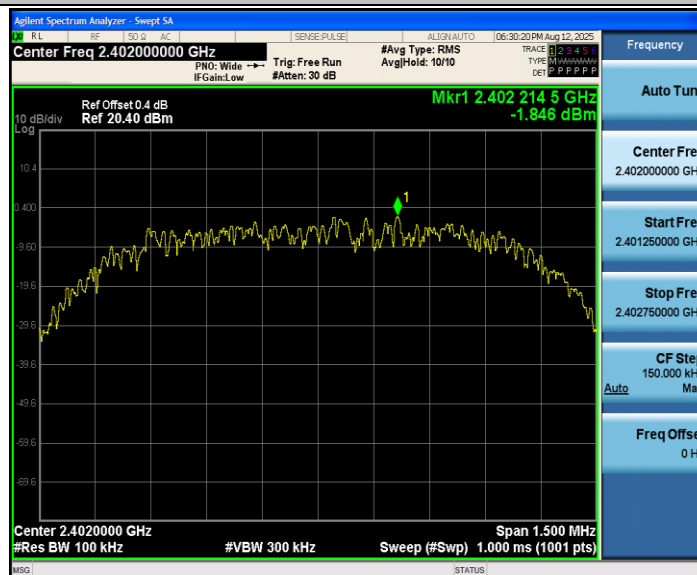
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000