

FCC Appendix RF Test Data for BT

FCC ID : 2BTGF-EYEFly

Company : WENZHOU EMMA OPTICS CO., LTD.

EUT : SMART GLASSES

Model Number : STREAM

Report No. : CTA25120500201

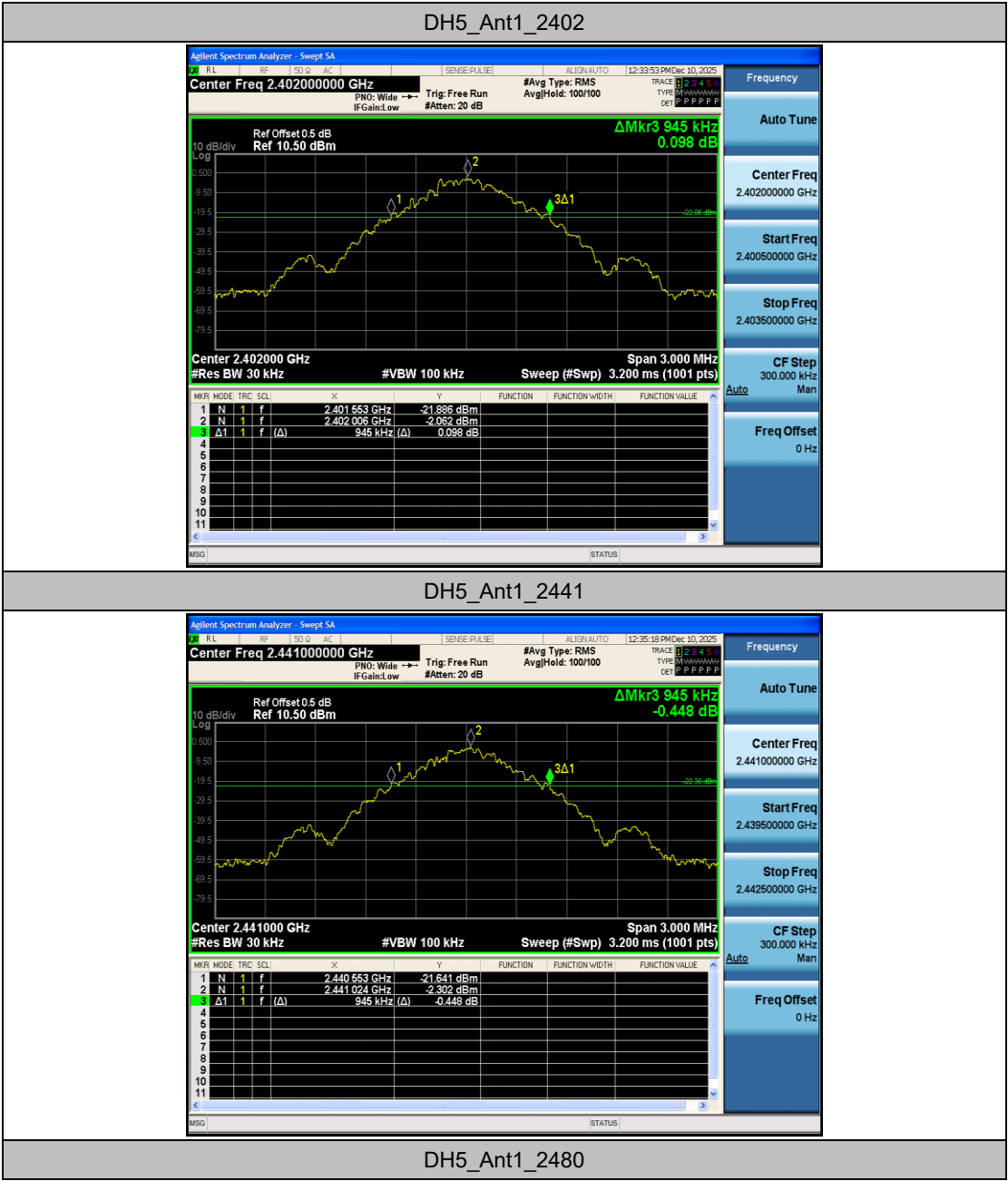
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.553	2402.498	---	---
		2441	0.945	2440.553	2441.498	---	---
		2480	0.957	2479.544	2480.501	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.278	2440.382	2441.660	---	---
		2480	1.320	2479.349	2480.669	---	---
3DH5	Ant1	2402	1.341	2401.337	2402.678	---	---
		2441	1.278	2440.382	2441.660	---	---
		2480	1.281	2479.379	2480.660	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

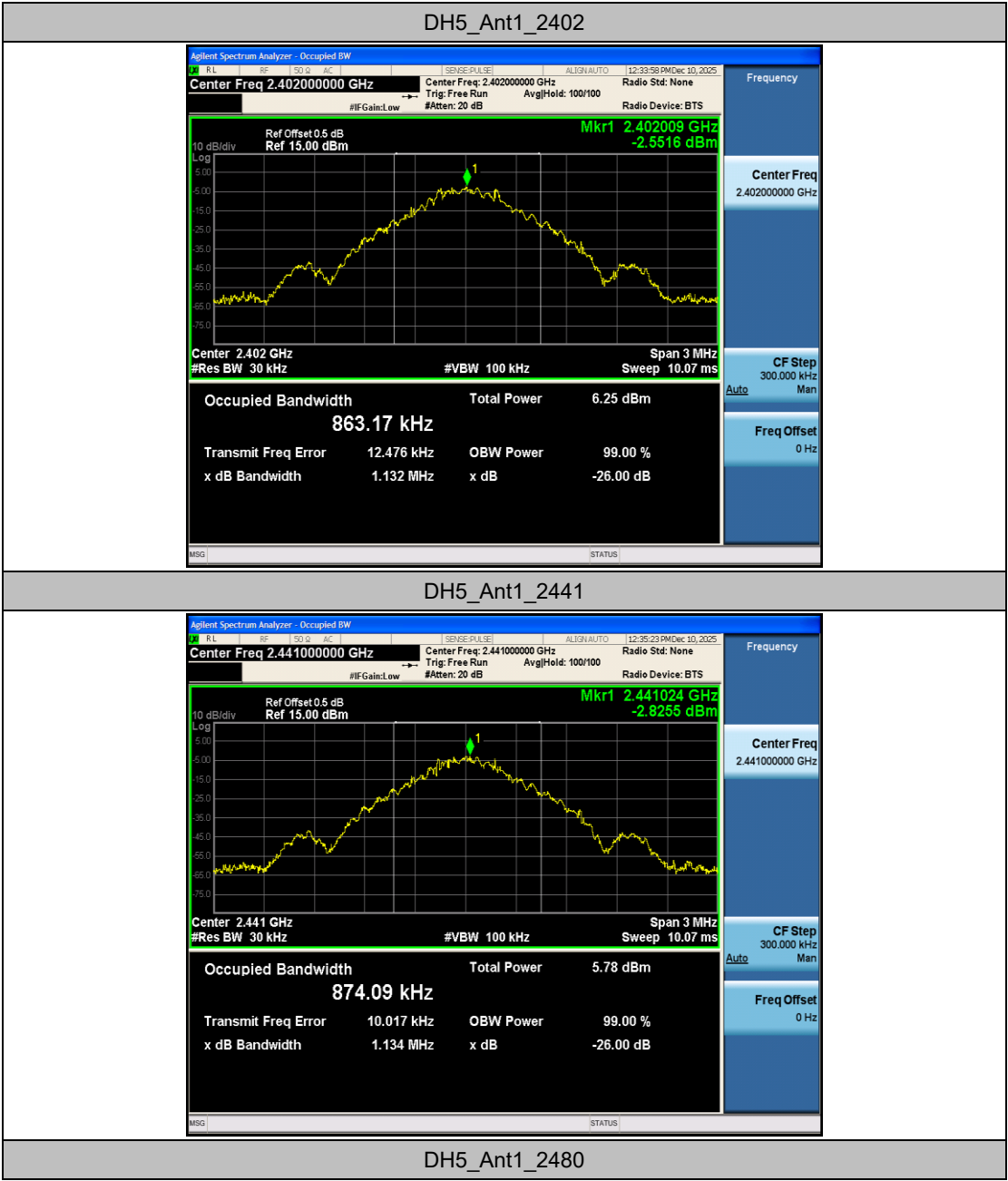


Appendix B: Occupied Channel Bandwidth

Test Result

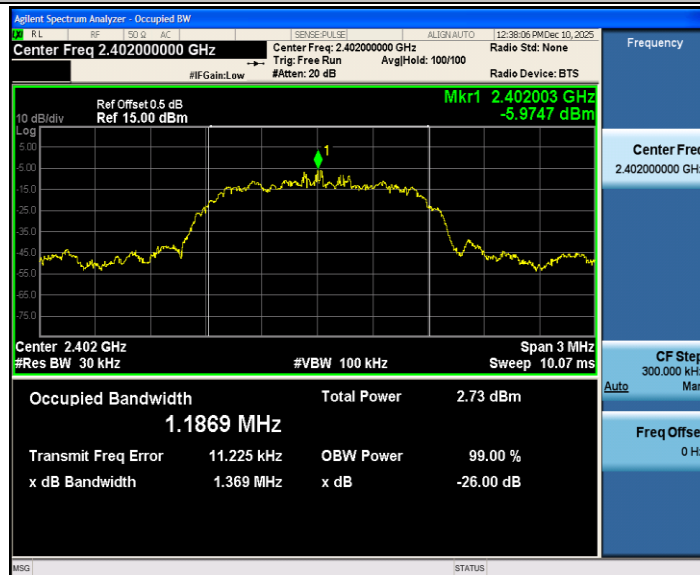
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86317	2401.5809	2402.4441	---	---
		2441	0.87409	2440.5730	2441.4471	---	---
		2480	0.86307	2479.5778	2480.4408	---	---
2DH5	Ant1	2402	1.1869	2401.4178	2402.6047	---	---
		2441	1.1858	2440.4171	2441.6029	---	---
		2480	1.1912	2479.4149	2480.6061	---	---
3DH5	Ant1	2402	1.1914	2401.4156	2402.6070	---	---
		2441	1.1950	2440.4134	2441.6084	---	---
		2480	1.1870	2479.4197	2480.6067	---	---

Test Graphs

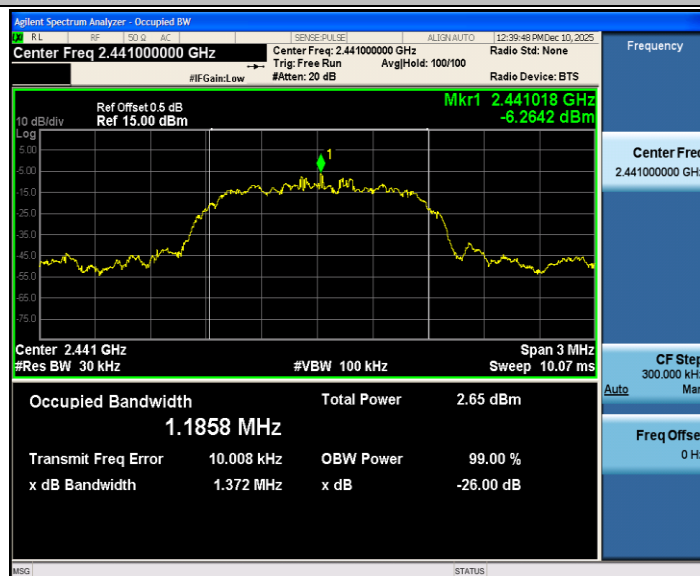




2DH5_Ant1_2402



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	0.16	≤20.97	PASS
		2441	-0.10	≤20.97	PASS
		2480	-0.20	≤20.97	PASS
2DH5	Ant1	2402	-0.66	≤20.97	PASS
		2441	-0.89	≤20.97	PASS
		2480	-1.03	≤20.97	PASS
3DH5	Ant1	2402	-0.66	≤20.97	PASS
		2441	-0.88	≤20.97	PASS
		2480	-1.00	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.024	≥ 0.957	PASS
2DH5	Ant1	Hop	1.224	≥ 0.880	PASS
3DH5	Ant1	Hop	1.06	≥ 0.894	PASS

Test Graphs



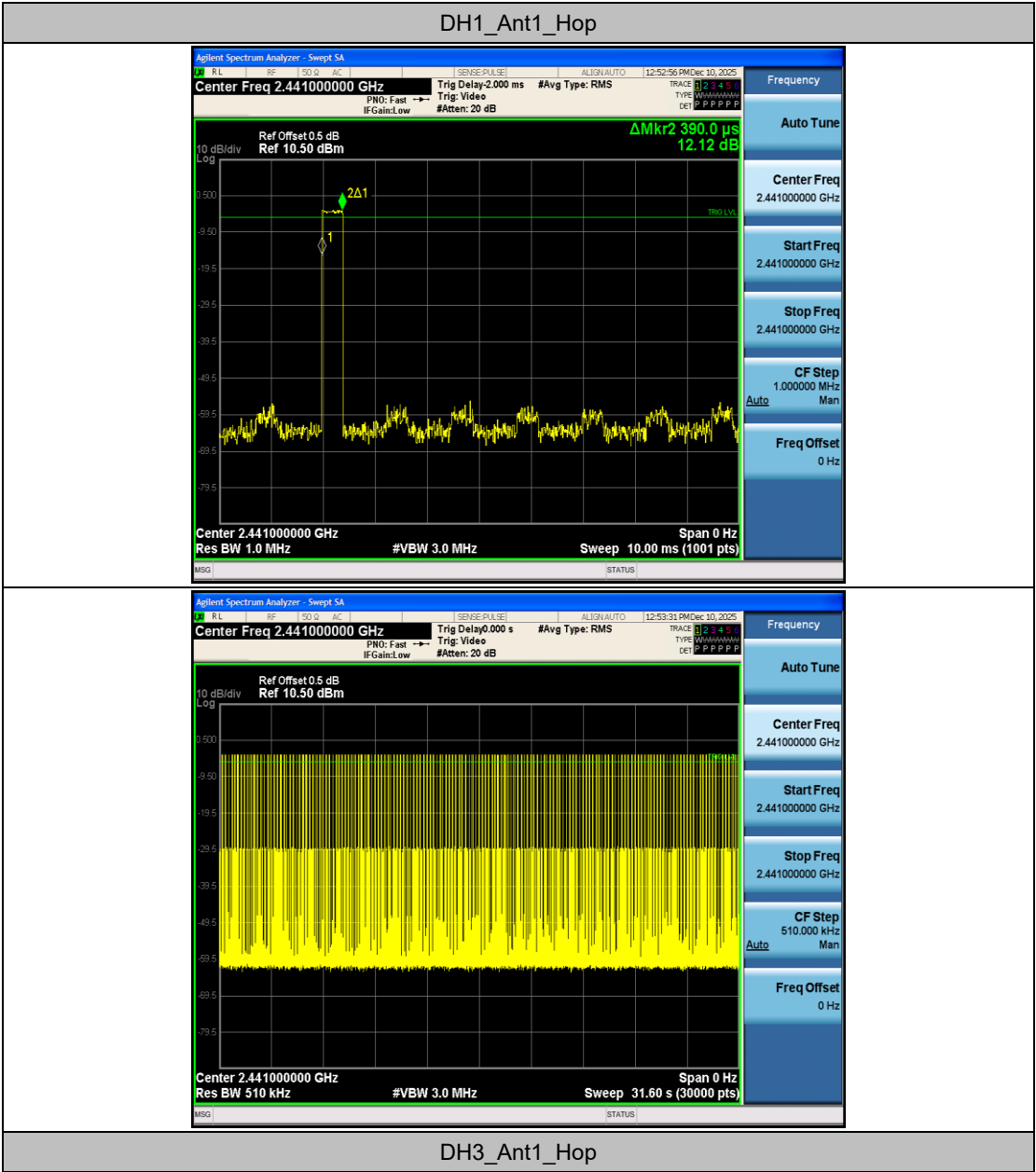


Appendix E: Time of occupancy

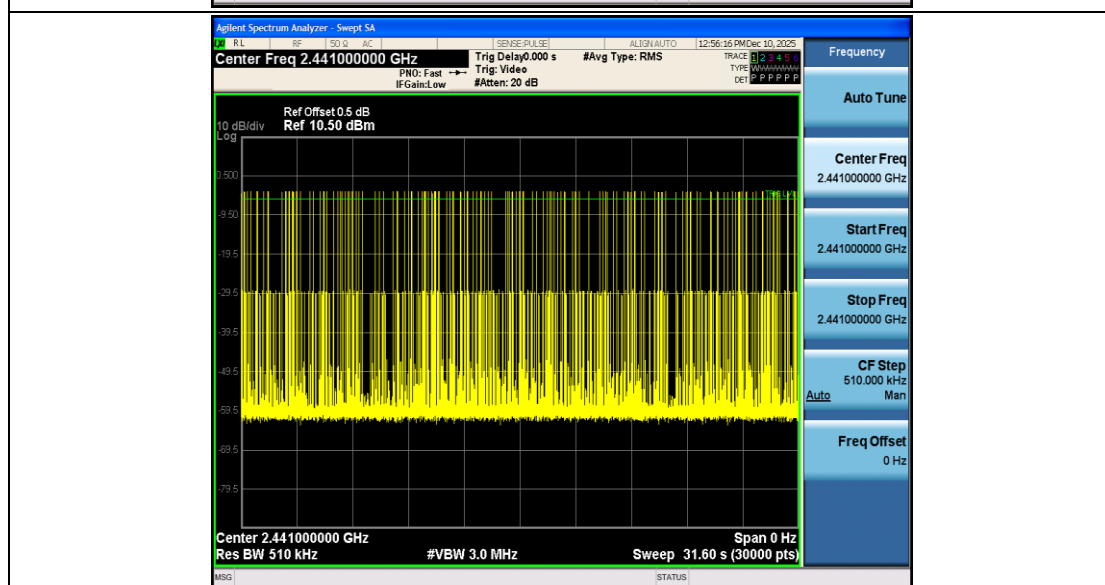
Test Result

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	1.640	155	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.900	101	0.293	≤0.4	PASS
2DH1	Ant1	Hop	0.390	313	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.640	165	0.271	≤0.4	PASS
2DH5	Ant1	Hop	2.900	101	0.293	≤0.4	PASS
3DH1	Ant1	Hop	0.390	315	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.640	154	0.253	≤0.4	PASS
3DH5	Ant1	Hop	2.900	103	0.299	≤0.4	PASS

Test Graphs

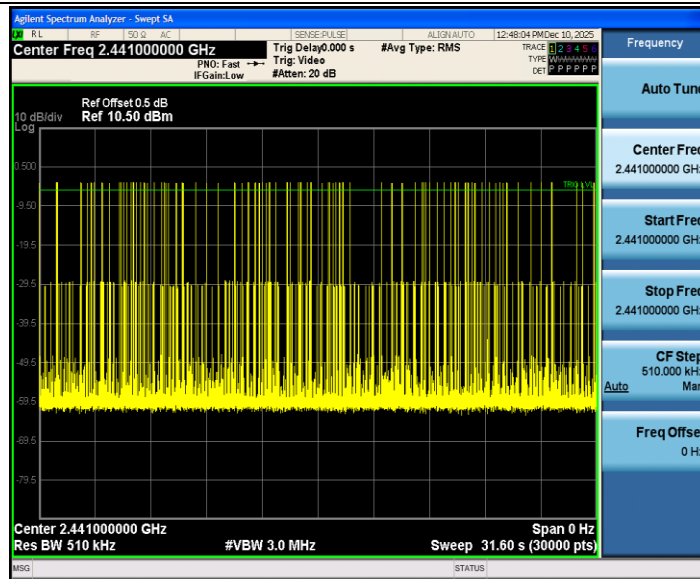


DH3_Ant1_Hop

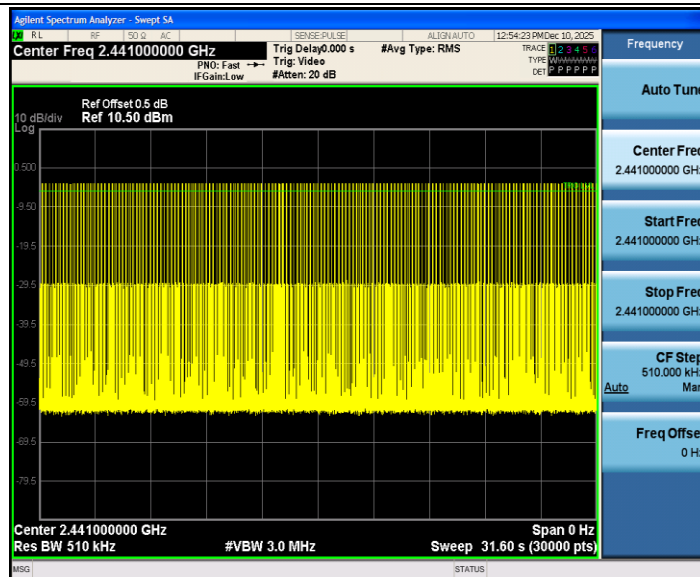
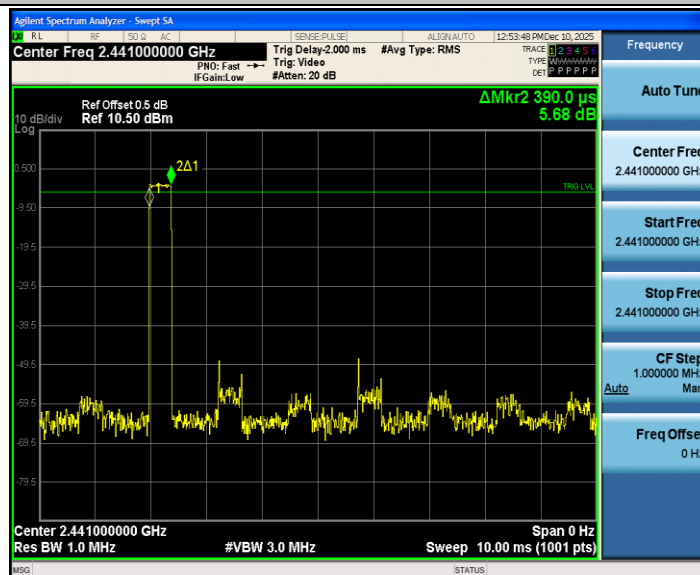


DH5_Ant1_Hop

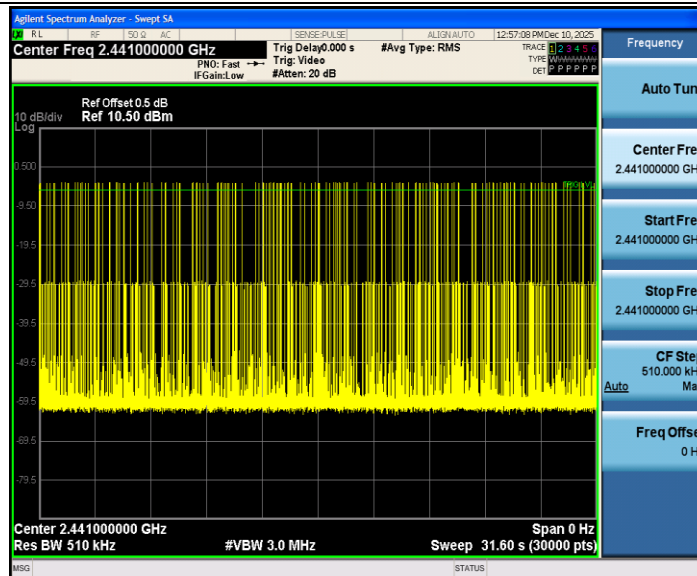




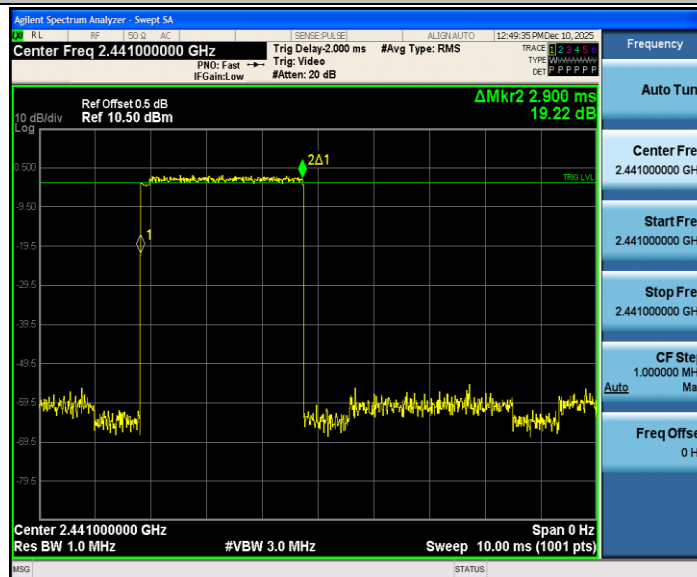
2DH1_Ant1_Hop

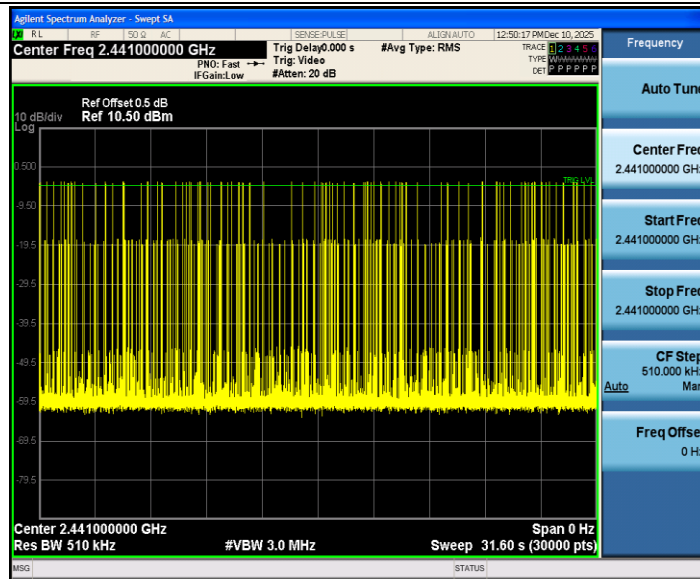


2DH3_Ant1_Hop

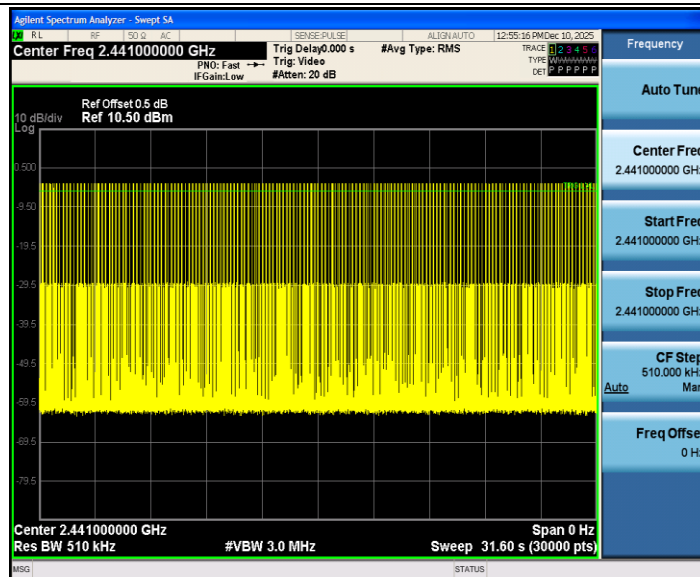
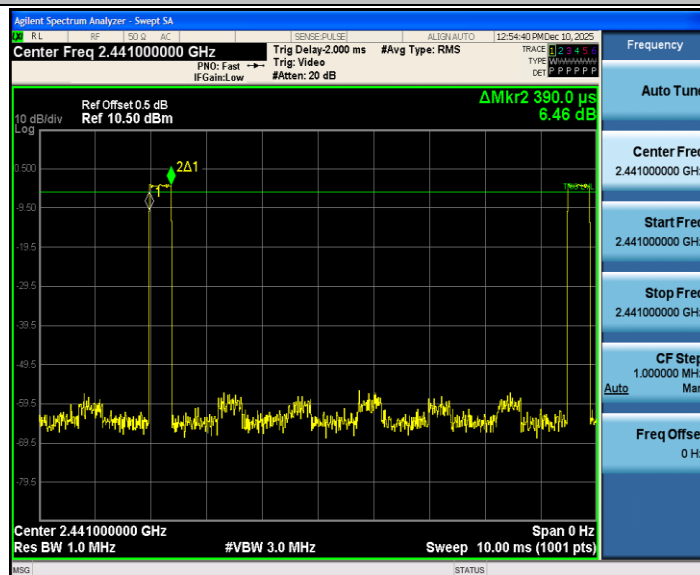


2DH5_Ant1_Hop

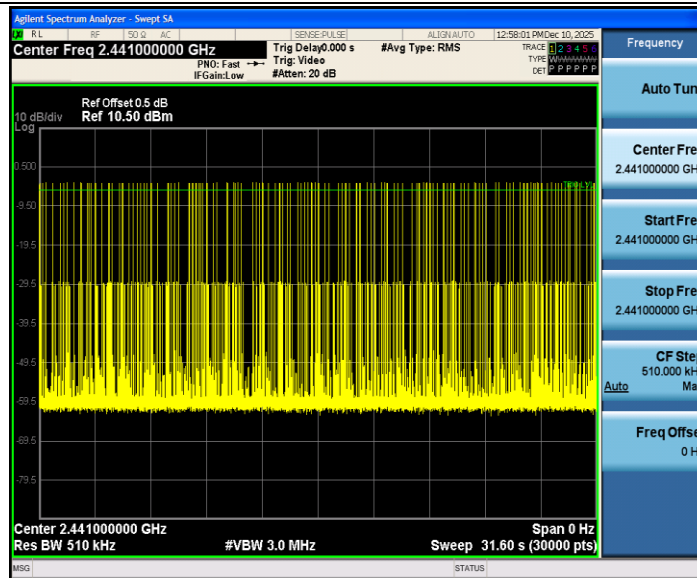
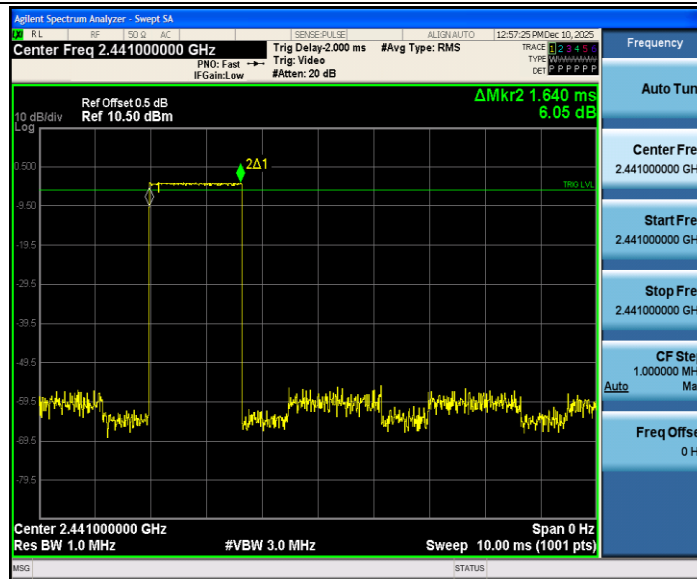




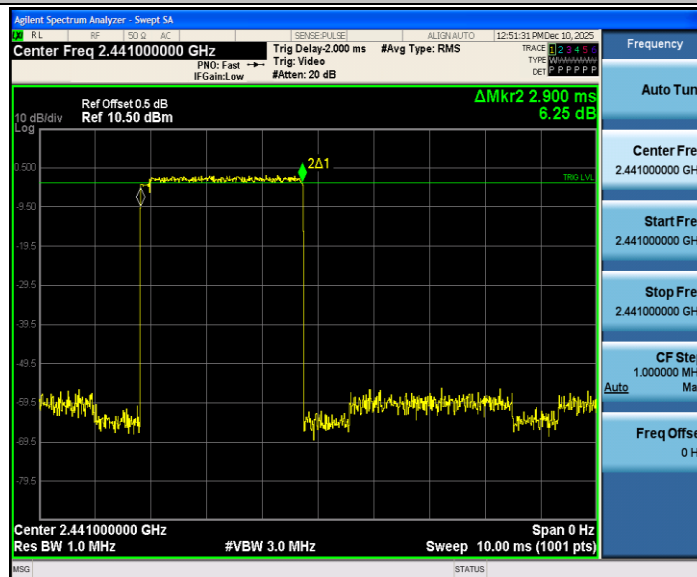
3DH1_Ant1_Hop

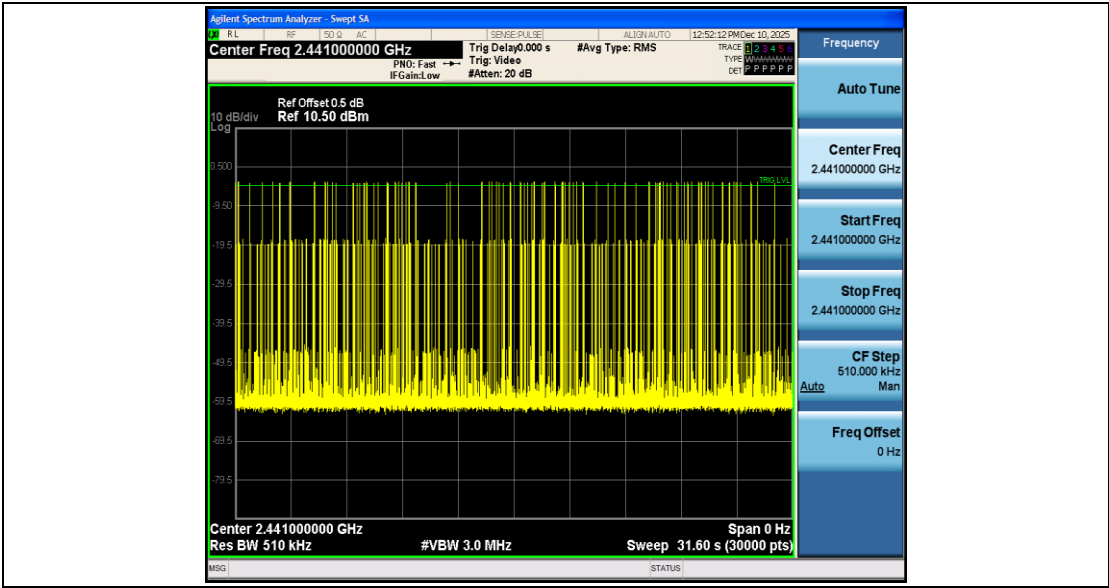


3DH3_Ant1_Hop



3DH5_Ant1_Hop





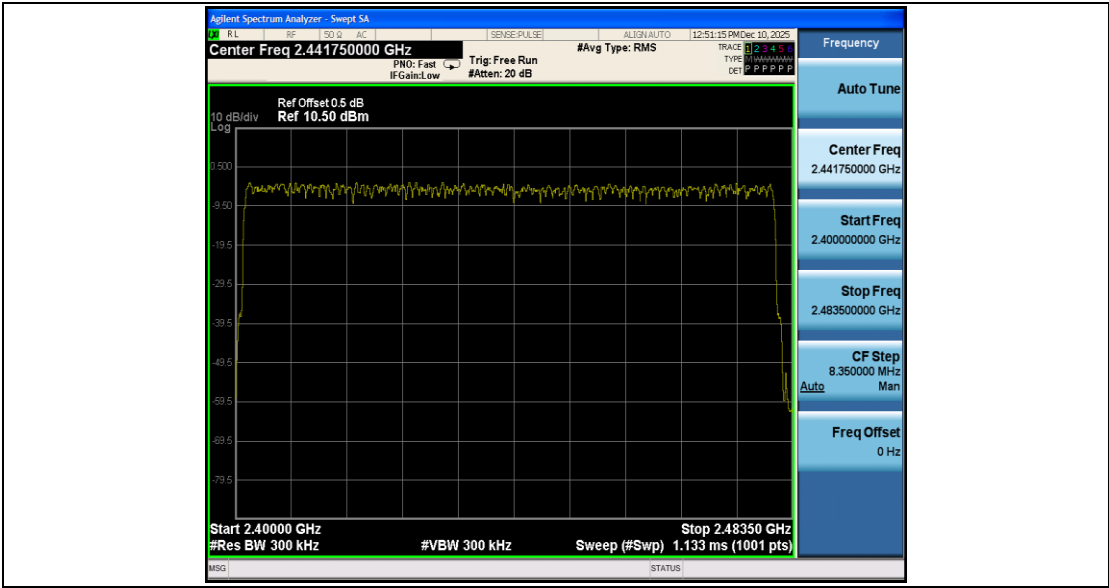
Appendix F: Number of hopping channels

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



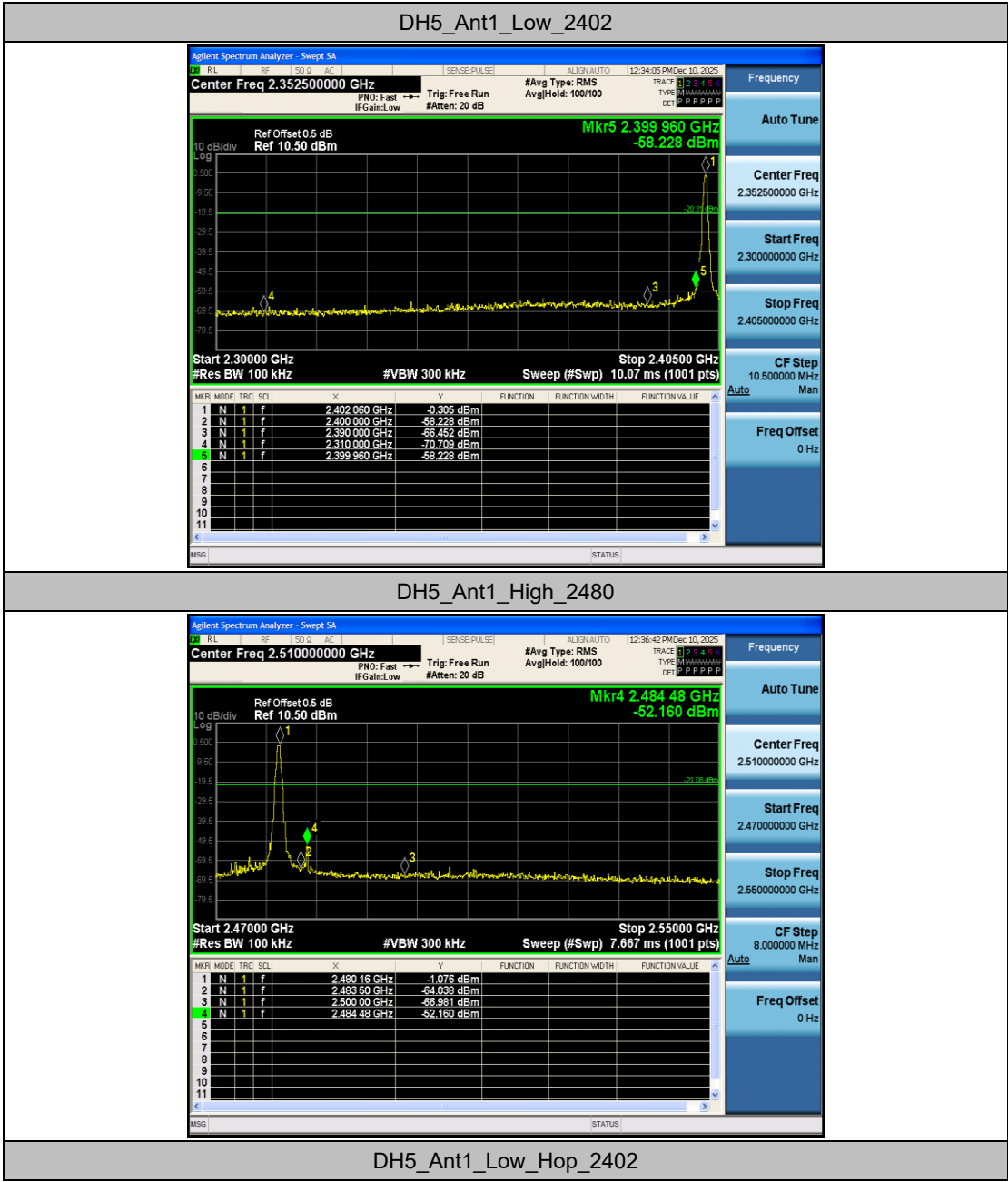


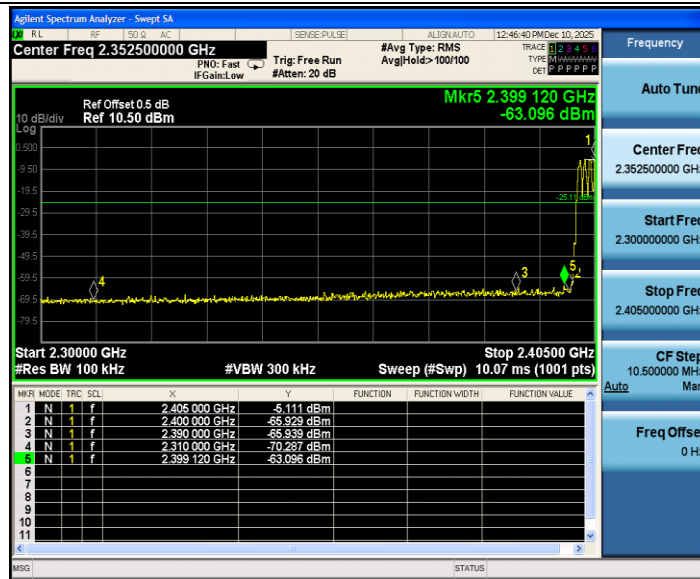
Appendix G: Band edge measurements

Test Result

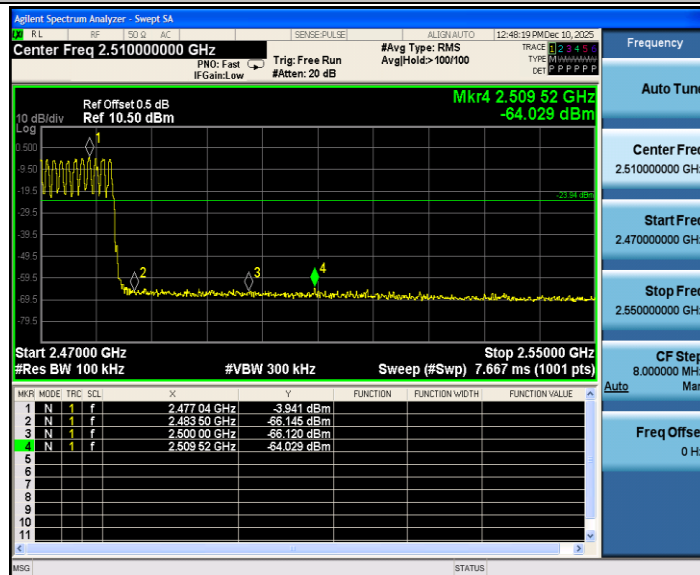
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.31	-58.23	≤-20.31	PASS
		High	2480	-1.08	-52.16	≤-21.08	PASS
		Low	Hop_2402	-5.11	-63.1	≤-25.11	PASS
		High	Hop_2480	-3.94	-64.03	≤-23.94	PASS
2DH5	Ant1	Low	2402	-5.06	-60.91	≤-25.06	PASS
		High	2480	-3.68	-54.8	≤-23.68	PASS
		Low	Hop_2402	-3.50	-60.57	≤-23.5	PASS
		High	Hop_2480	-4.19	-64.7	≤-24.19	PASS
3DH5	Ant1	Low	2402	-4.57	-60.26	≤-24.57	PASS
		High	2480	-5.22	-56.99	≤-25.22	PASS
		Low	Hop_2402	-3.31	-62.51	≤-23.31	PASS
		High	Hop_2480	-4.27	-58.66	≤-24.27	PASS

Test Graphs

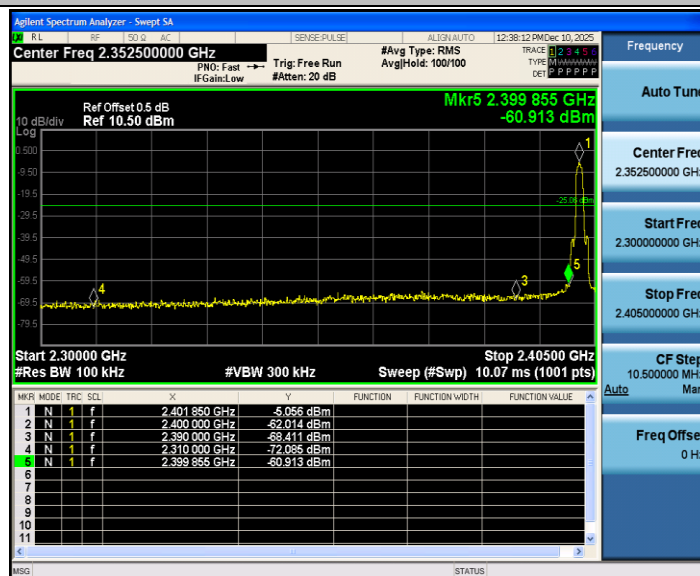




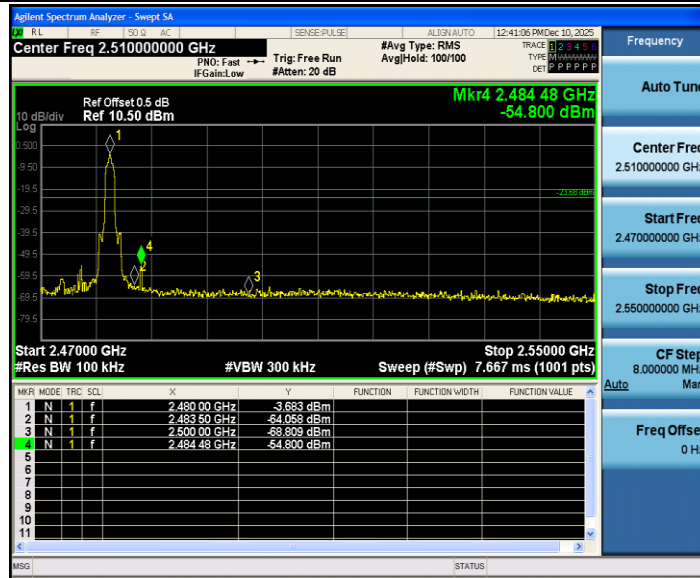
DH5_Ant1_High_Hop_2480



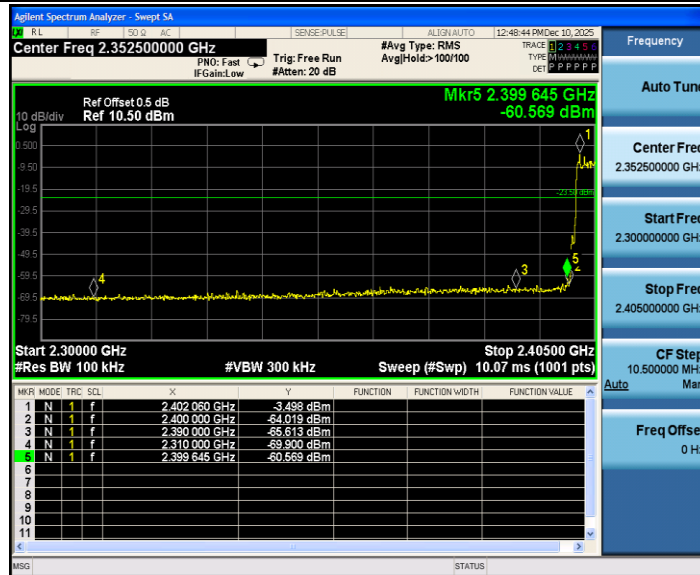
2DH5_Ant1_Low_2402



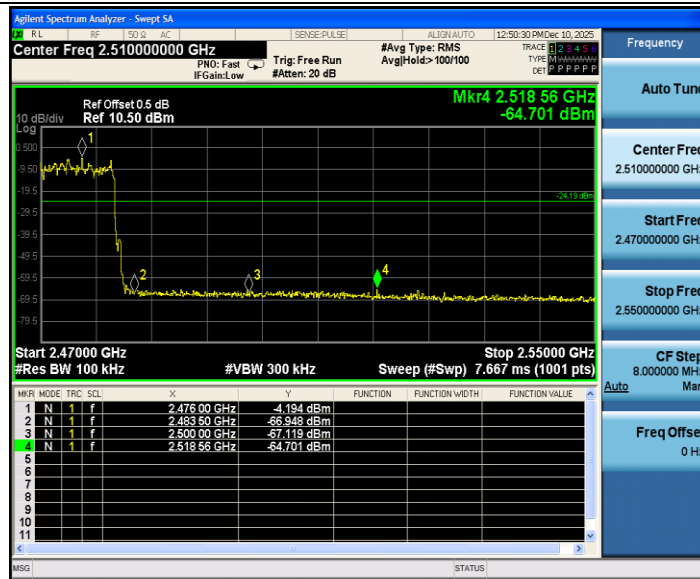
2DH5_Ant1_High_2480



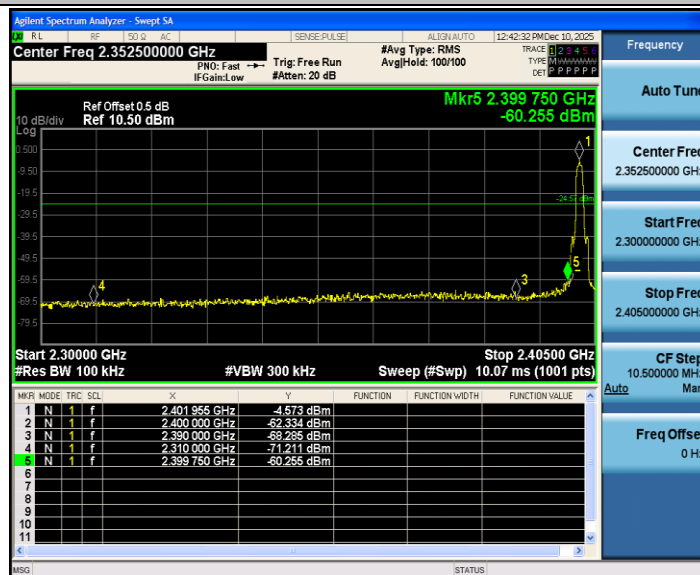
2DH5_Ant1_Low_Hop_2402



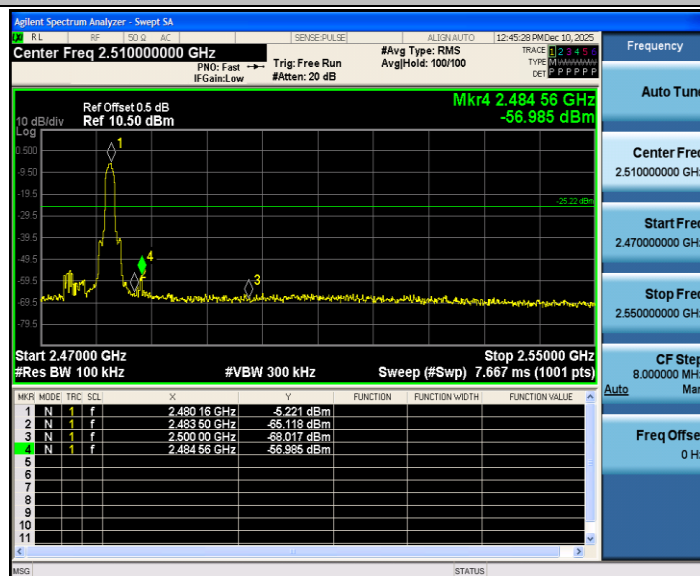
2DH5_Ant1_High_Hop_2480



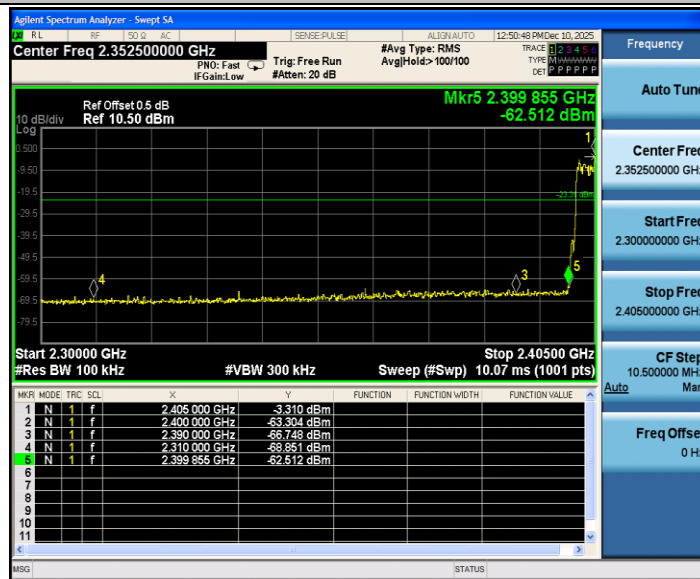
3DH5_Ant1_Low_2402



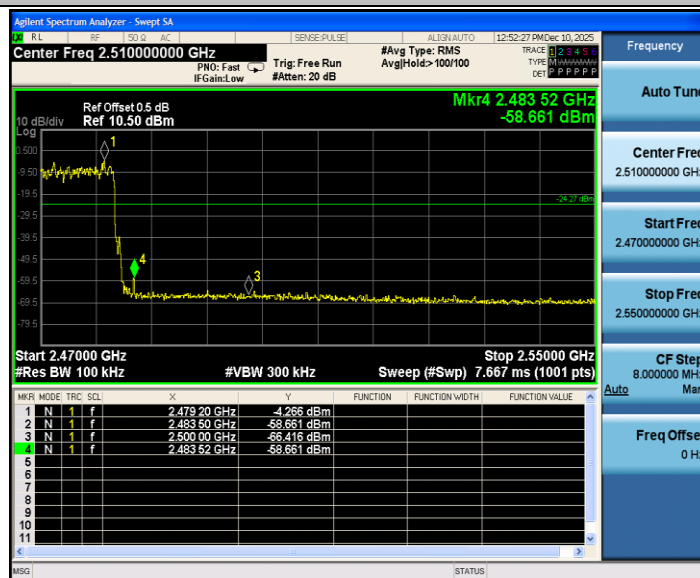
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

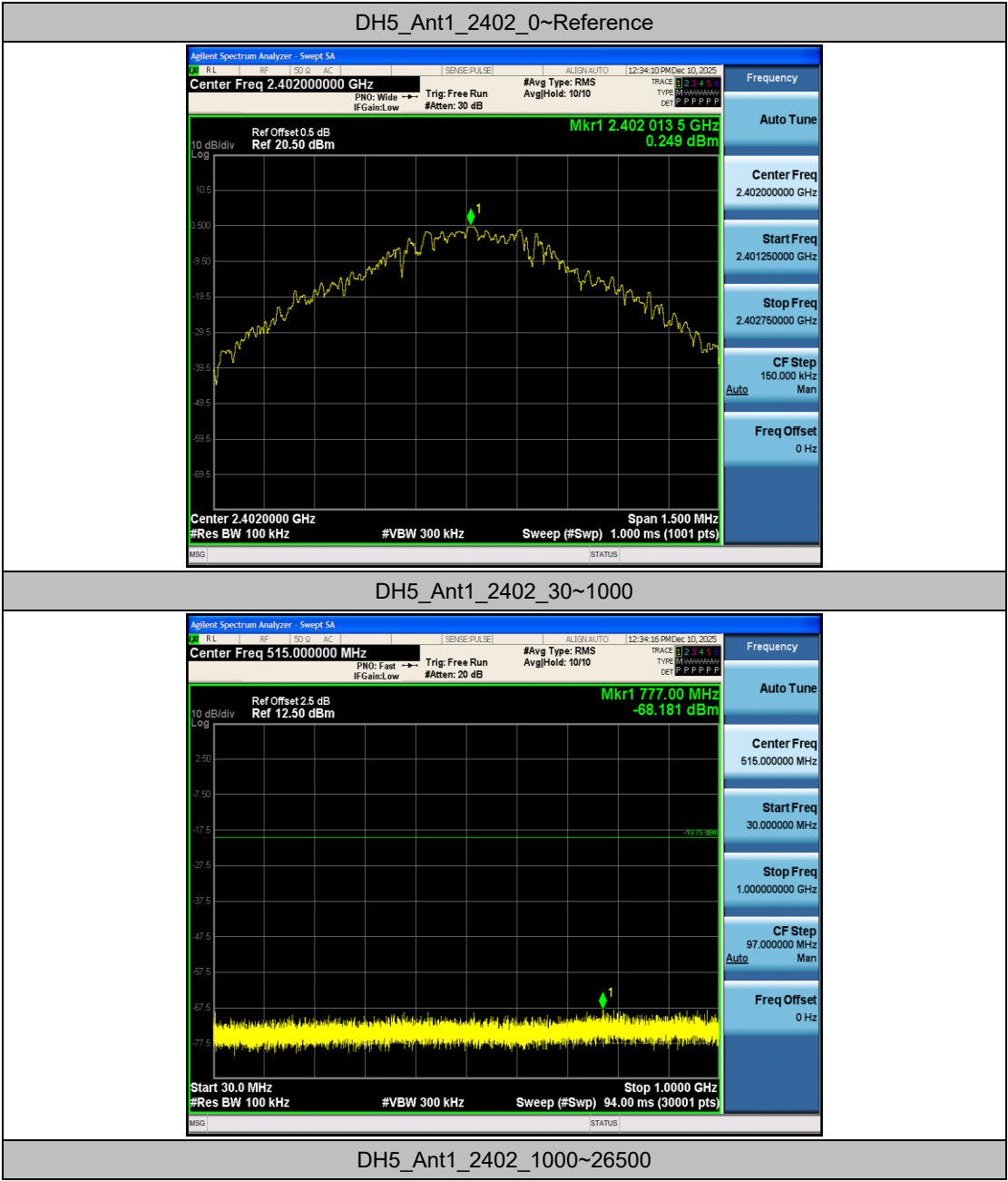


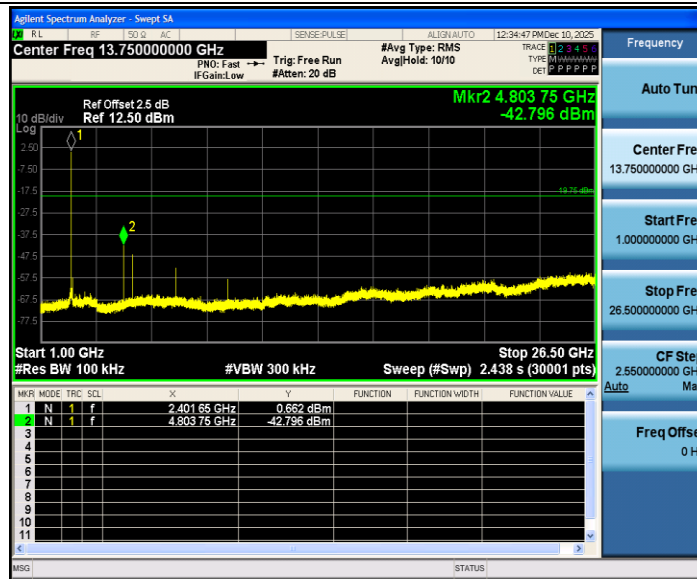
Appendix H: Conducted Spurious Emission

Test Result

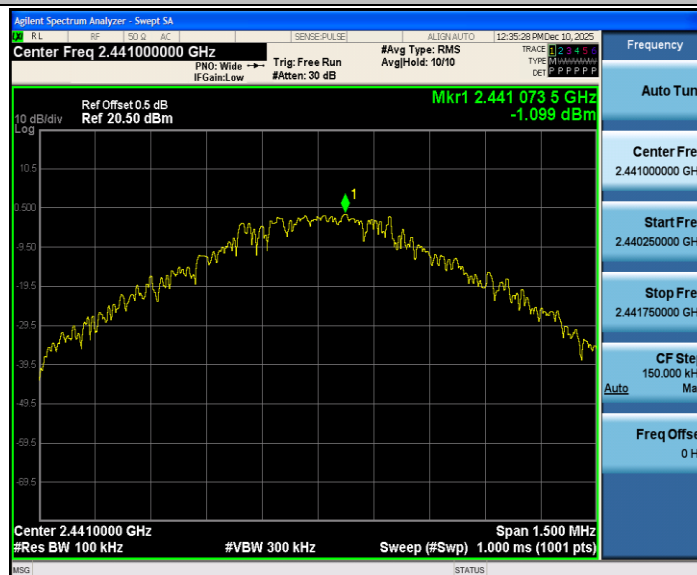
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-68.18	≤-19.75	PASS
			1000~26500	0.25	-42.8	≤-19.75	PASS
		2441	Reference	-1.10	-1.10	---	PASS
			30~1000	-1.10	-68.05	≤-21.1	PASS
			1000~26500	-1.10	-42.52	≤-21.1	PASS
		2480	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-68.04	≤-21.06	PASS
			1000~26500	-1.06	-41.52	≤-21.06	PASS
2DH5	Ant1	2402	Reference	-5.06	-5.06	---	PASS
			30~1000	-5.06	-67.82	≤-25.06	PASS
			1000~26500	-5.06	-48.62	≤-25.06	PASS
		2441	Reference	-7.16	-7.16	---	PASS
			30~1000	-7.16	-64.79	≤-27.16	PASS
			1000~26500	-7.16	-50.34	≤-27.16	PASS
		2480	Reference	-5.05	-5.05	---	PASS
			30~1000	-5.05	-67.73	≤-25.05	PASS
			1000~26500	-5.05	-50.41	≤-25.05	PASS
3DH5	Ant1	2402	Reference	-5.20	-5.20	---	PASS
			30~1000	-5.20	-66.53	≤-25.2	PASS
			1000~26500	-5.20	-48.75	≤-25.2	PASS
		2441	Reference	-7.23	-7.23	---	PASS
			30~1000	-7.23	-68.33	≤-27.23	PASS
			1000~26500	-7.23	-50.5	≤-27.23	PASS
		2480	Reference	-7.10	-7.10	---	PASS
			30~1000	-7.10	-67.57	≤-27.1	PASS
			1000~26500	-7.10	-47.96	≤-27.1	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

