

Appendix RF Test Data for BT

FCC ID : 2BO7GS80

Company : Shenzhen Yiwei Technology Co., LTD

EUT : Wireless Earphone

Model Number : S80

Report No. : CTA25070700602

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	0.951	2401.550	2402.501	---	---
		2441	0.954	2440.547	2441.501	---	---
		2480	0.948	2479.550	2480.498	---	---
2DH5	Ant1	2402	1.326	2401.343	2402.669	---	---
		2441	1.284	2440.379	2441.663	---	---
		2480	1.323	2479.349	2480.672	---	---
3DH5	Ant1	2402	1.314	2401.355	2402.669	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.323	2479.346	2480.669	---	---

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 B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87033	2401.5726	2402.4430	---	---
		2441	0.87492	2440.5701	2441.4451	---	---
		2480	0.86579	2479.5758	2480.4415	---	---
2DH5	Ant1	2402	1.1873	2401.4162	2402.6035	---	---
		2441	1.1902	2440.4149	2441.6051	---	---
		2480	1.1900	2479.4154	2480.6054	---	---
3DH5	Ant1	2402	1.1880	2401.4167	2402.6047	---	---
		2441	1.1833	2440.4170	2441.6003	---	---
		2480	1.1863	2479.4172	2480.6035	---	---

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

Left:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.28	≤20.97	PASS
		2441	0.04	≤20.97	PASS
		2480	-0.06	≤20.97	PASS
2DH5	Ant1	2402	-0.52	≤20.97	PASS
		2441	-0.74	≤20.97	PASS
		2480	-0.83	≤20.97	PASS
3DH5	Ant1	2402	-0.54	≤20.97	PASS
		2441	-0.76	≤20.97	PASS
		2480	-0.86	≤20.97	PASS

Right:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.34	≤20.97	PASS
		2441	0.12	≤20.97	PASS
		2480	-0.18	≤20.97	PASS
2DH5	Ant1	2402	-0.37	≤20.97	PASS
		2441	-0.46	≤20.97	PASS
		2480	-0.54	≤20.97	PASS
3DH5	Ant1	2402	-0.29	≤20.97	PASS
		2441	-0.38	≤20.97	PASS
		2480	-0.46	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	≥ 0.954	PASS
2DH5	Ant1	Hop	1.164	≥ 0.884	PASS
3DH5	Ant1	Hop	1.164	≥ 0.882	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

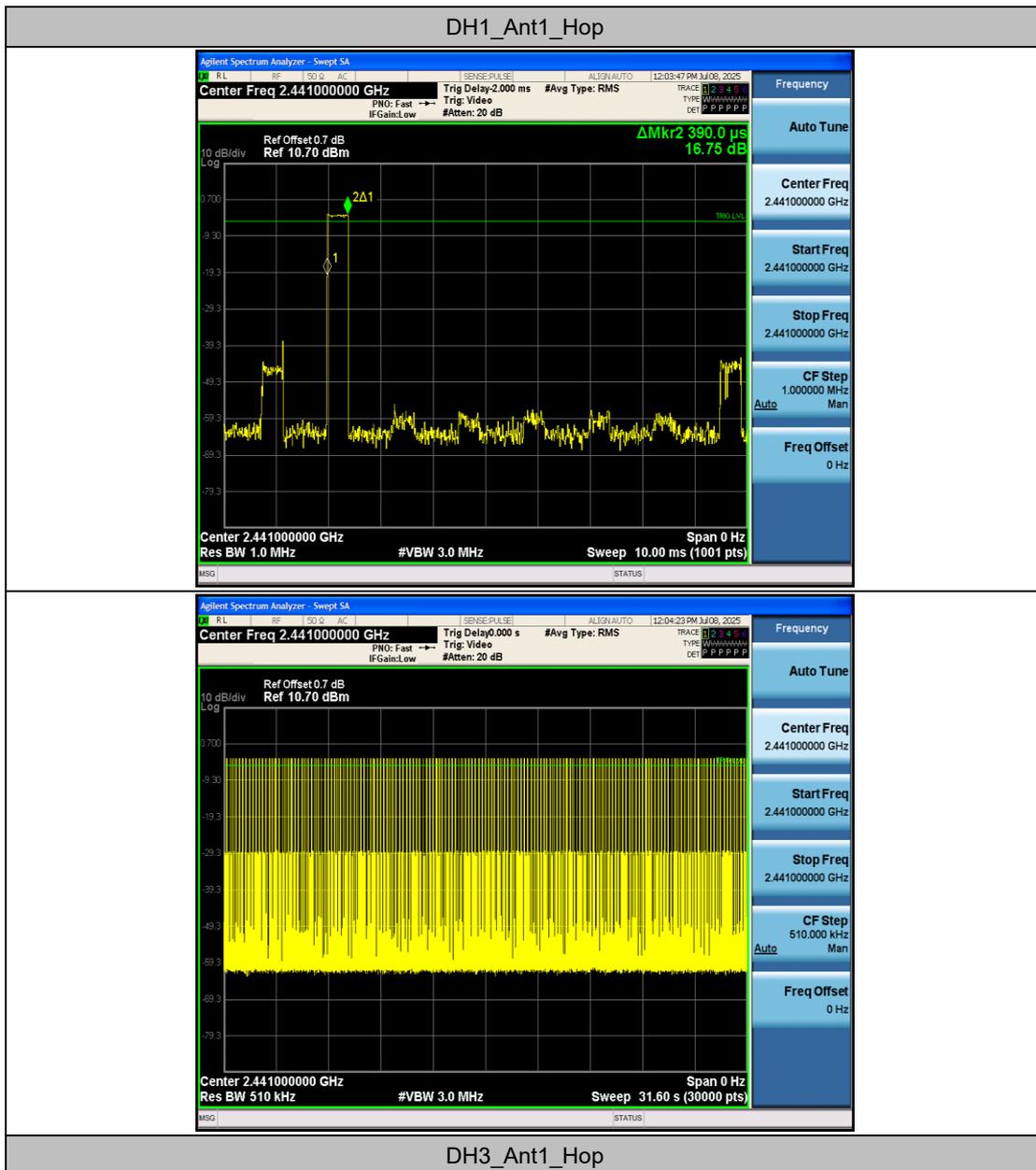


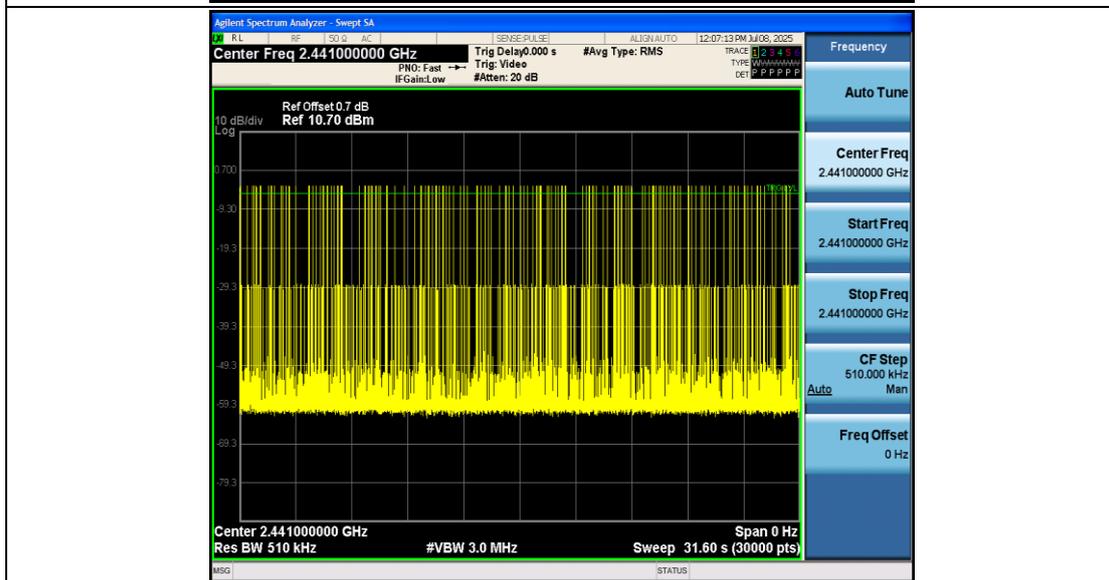
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.650	154	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.890	114	0.329	≤0.4	PASS
2DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.640	163	0.267	≤0.4	PASS
2DH5	Ant1	Hop	2.900	89	0.258	≤0.4	PASS
3DH1	Ant1	Hop	0.380	319	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.650	159	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.880	112	0.323	≤0.4	PASS

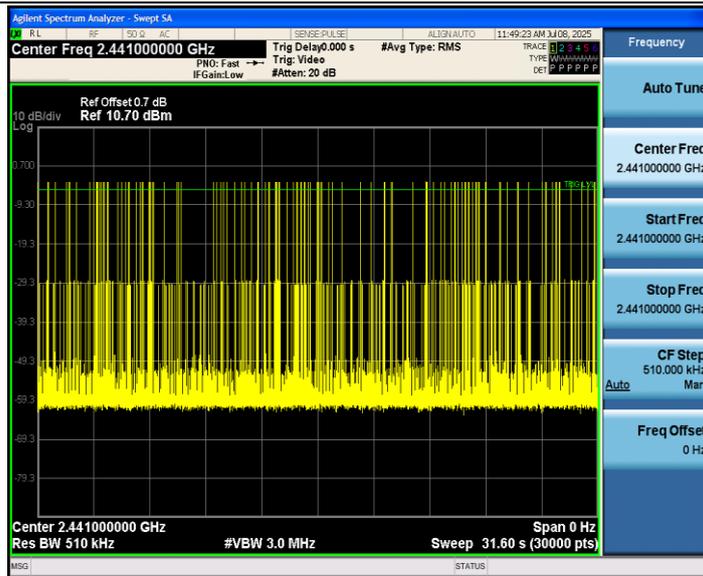
Test Graphs



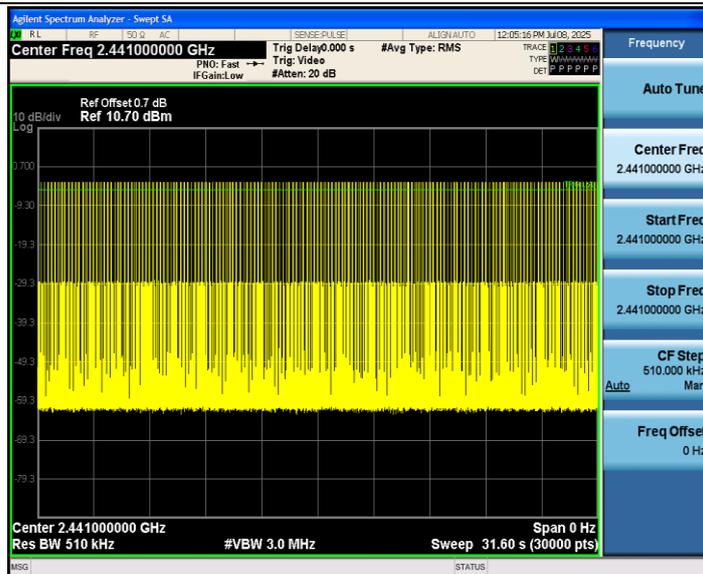


DH5_Ant1_Hop

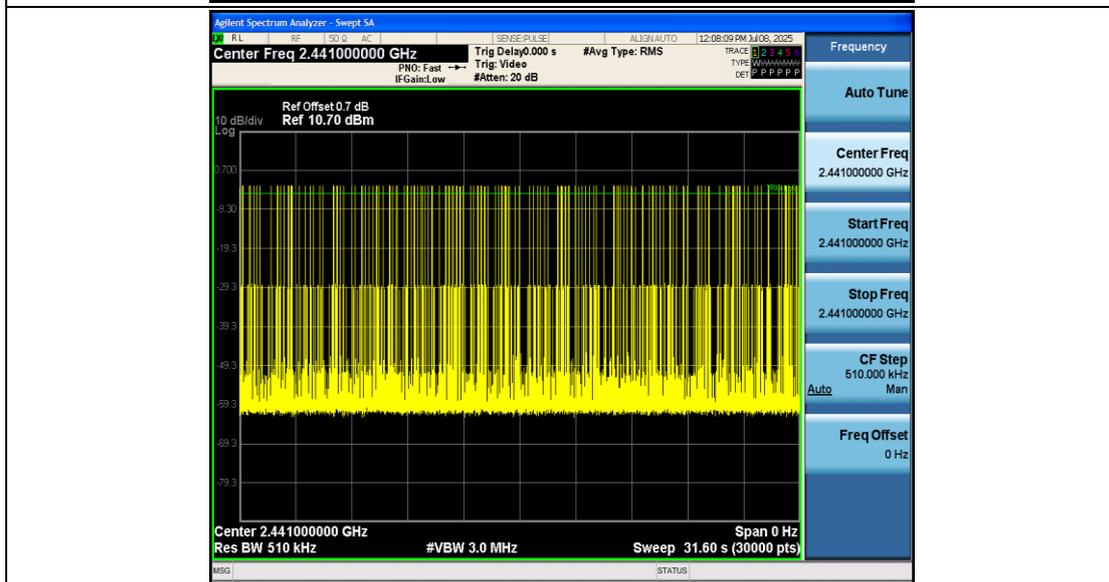




2DH1_Ant1_Hop

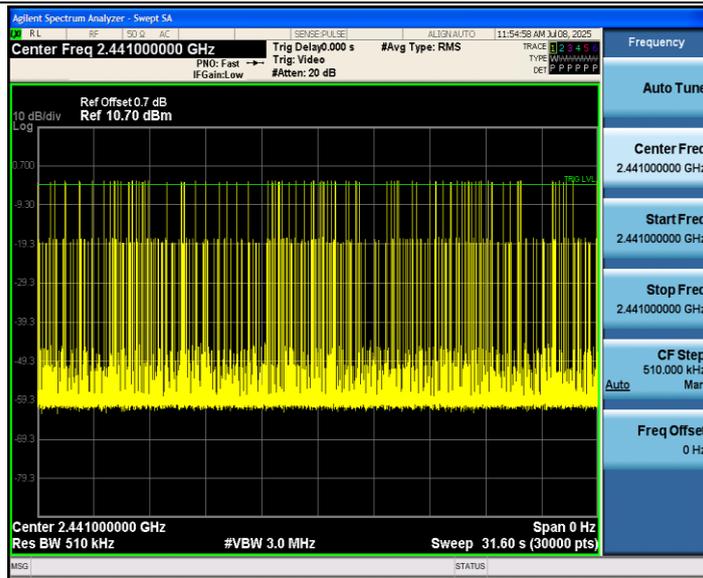


2DH3_Ant1_Hop

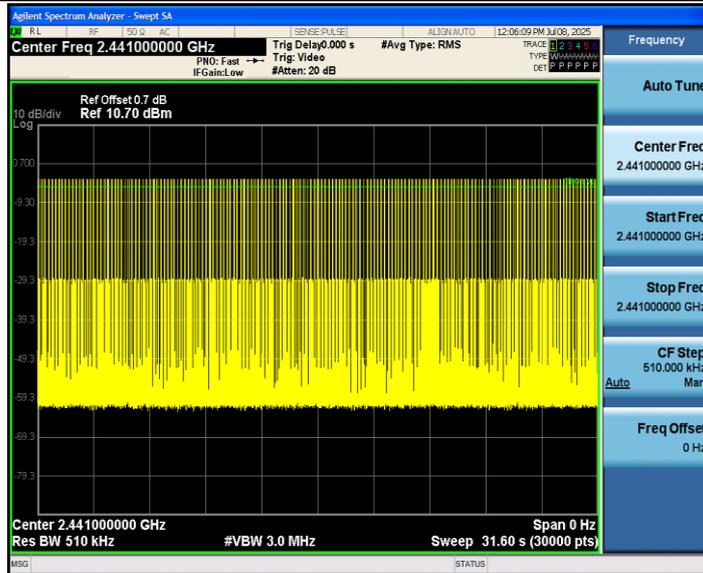


2DH5_Ant1_Hop

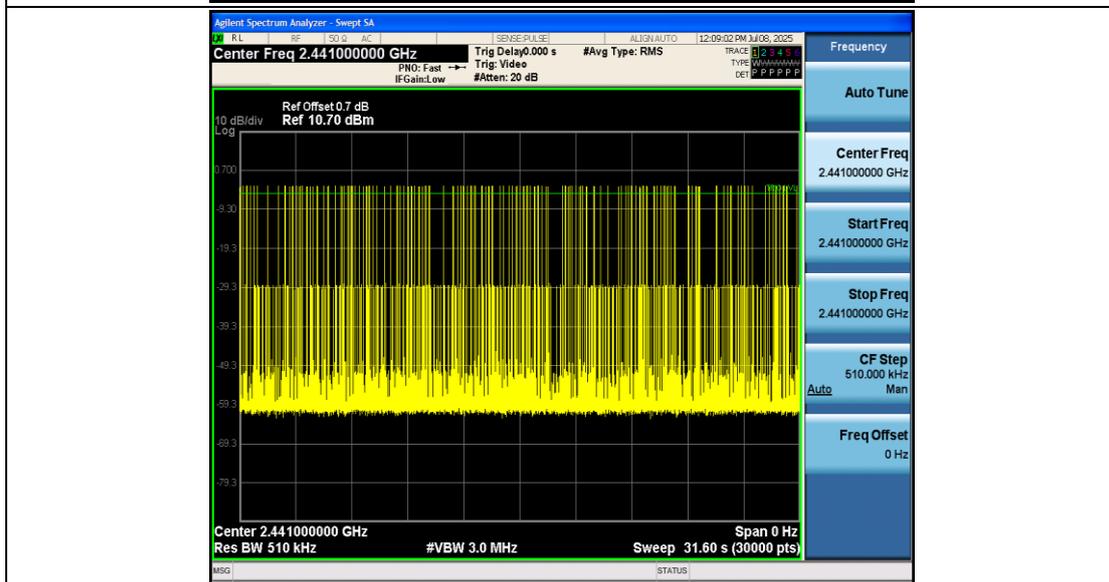




3DH1_Ant1_Hop

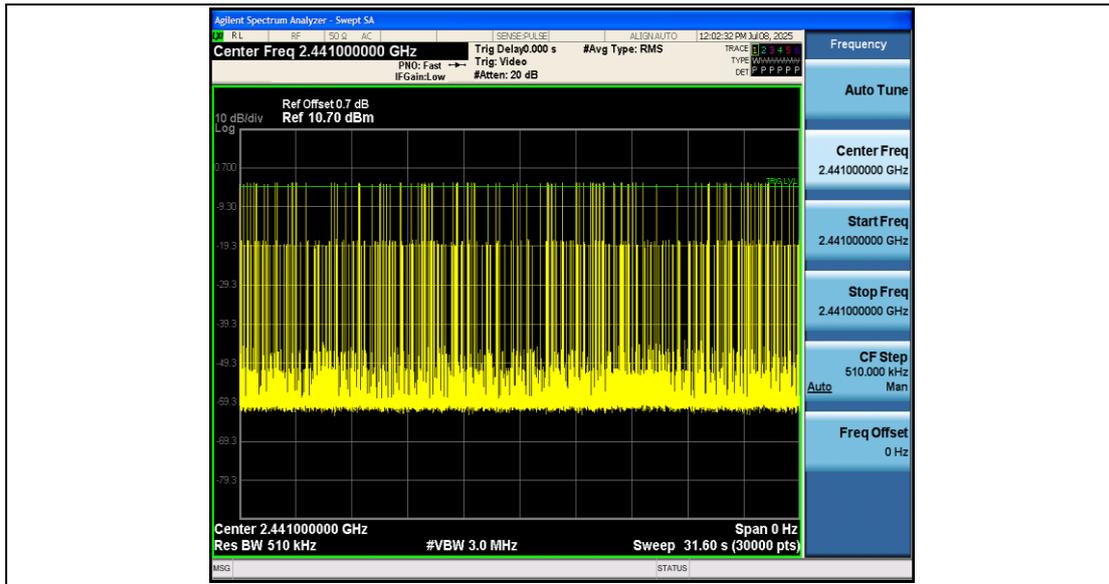


3DH3_Ant1_Hop



3DH5_Ant1_Hop





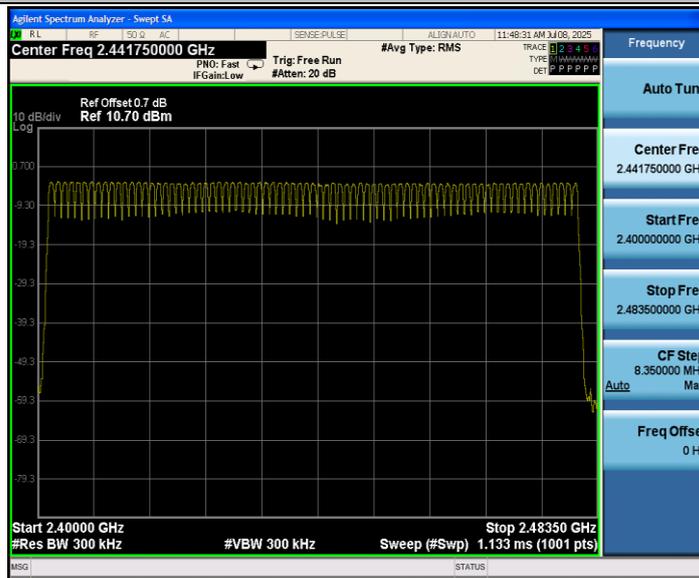
Appendix F: Number of hopping channels

Test Result

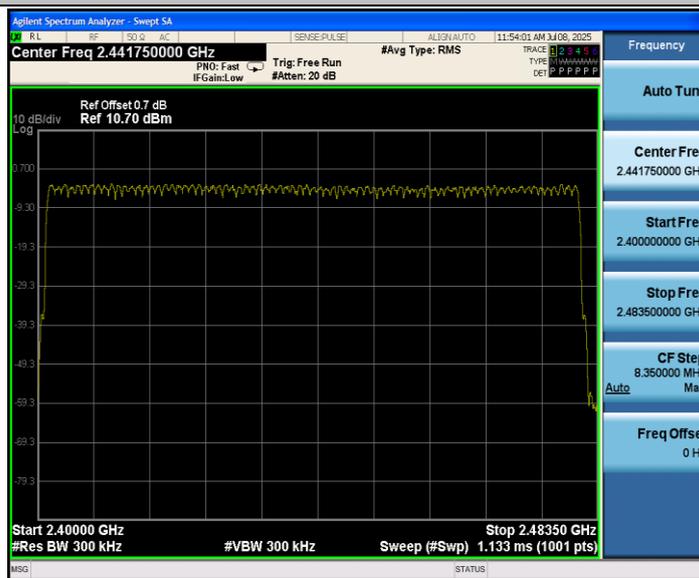
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS

Test Graphs

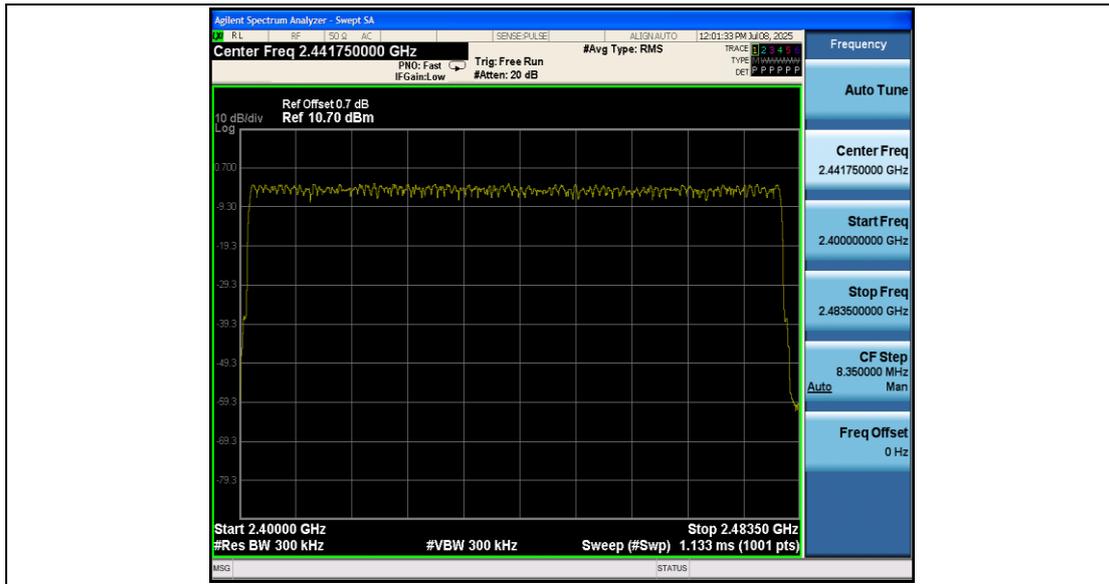
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



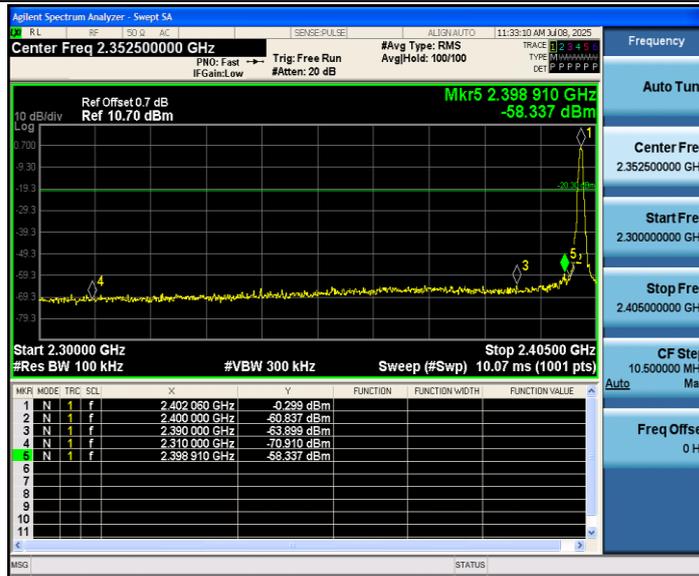
Appendix G: Band edge measurements

Test Result

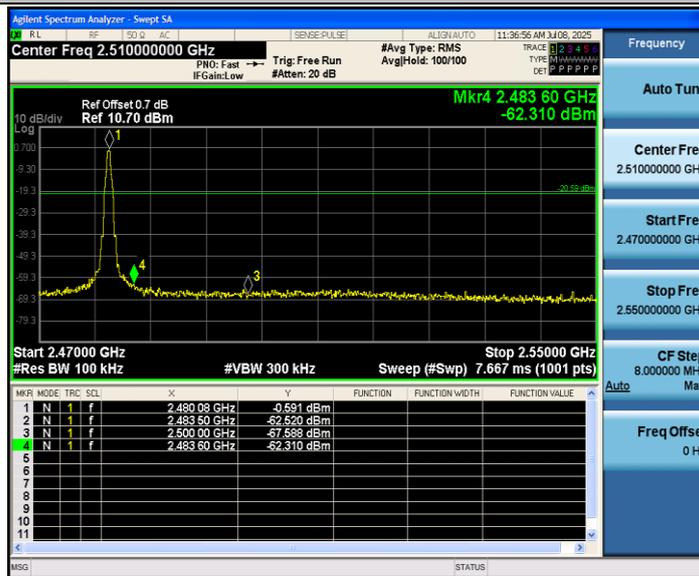
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.30	-58.34	≤-20.3	PASS
		High	2480	-0.59	-62.31	≤-20.59	PASS
		Low	Hop_2402	-4.10	-63.74	≤-24.1	PASS
		High	Hop_2480	-3.61	-60.49	≤-23.61	PASS
2DH5	Ant1	Low	2402	-4.97	-59.3	≤-24.97	PASS
		High	2480	-3.89	-55.17	≤-23.89	PASS
		Low	Hop_2402	-3.39	-59.74	≤-23.39	PASS
		High	Hop_2480	-3.59	-56.67	≤-23.59	PASS
3DH5	Ant1	Low	2402	-5.83	-60.89	≤-25.83	PASS
		High	2480	-4.68	-63.78	≤-24.68	PASS
		Low	Hop_2402	-4.06	-62.54	≤-24.06	PASS
		High	Hop_2480	-3.69	-64.17	≤-23.69	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



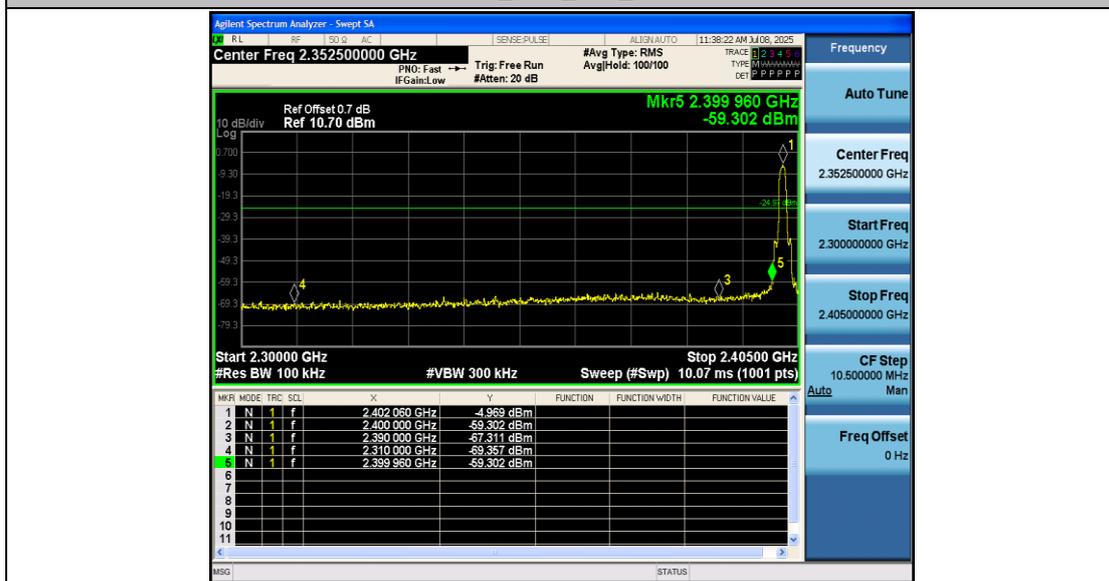
DH5_Ant1_Low_Hop_2402



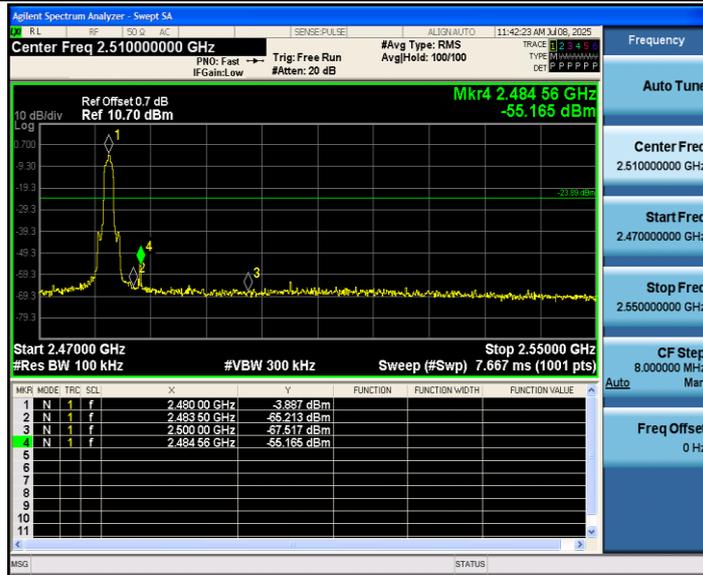
DH5_Ant1_High_Hop_2480



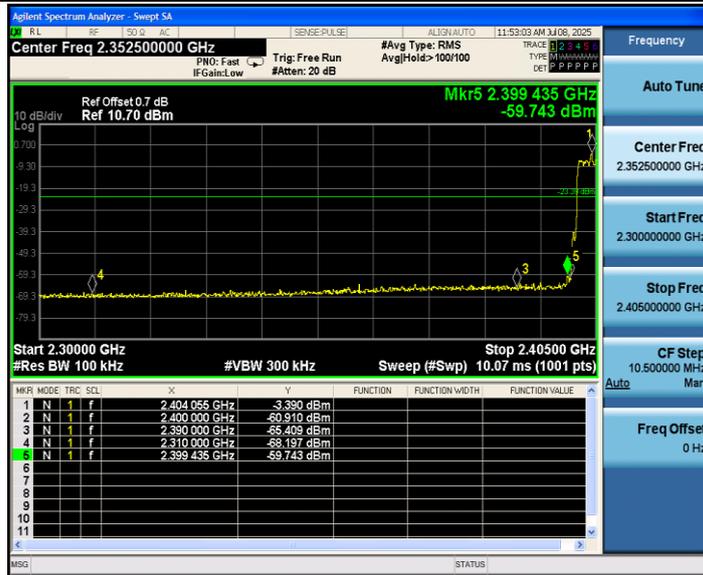
2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480



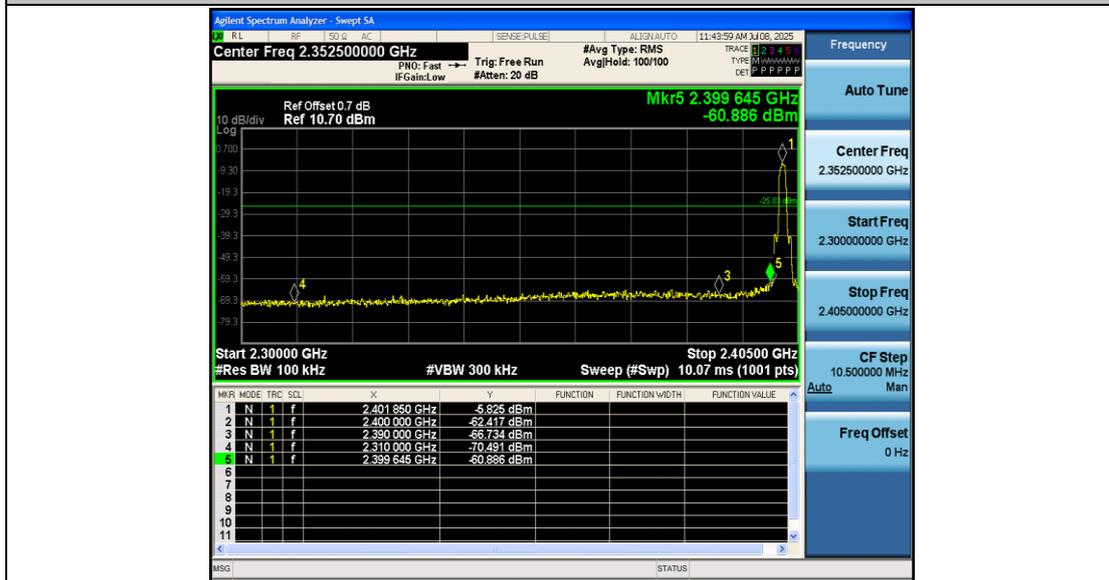
2DH5_Ant1_Low_Hop_2402



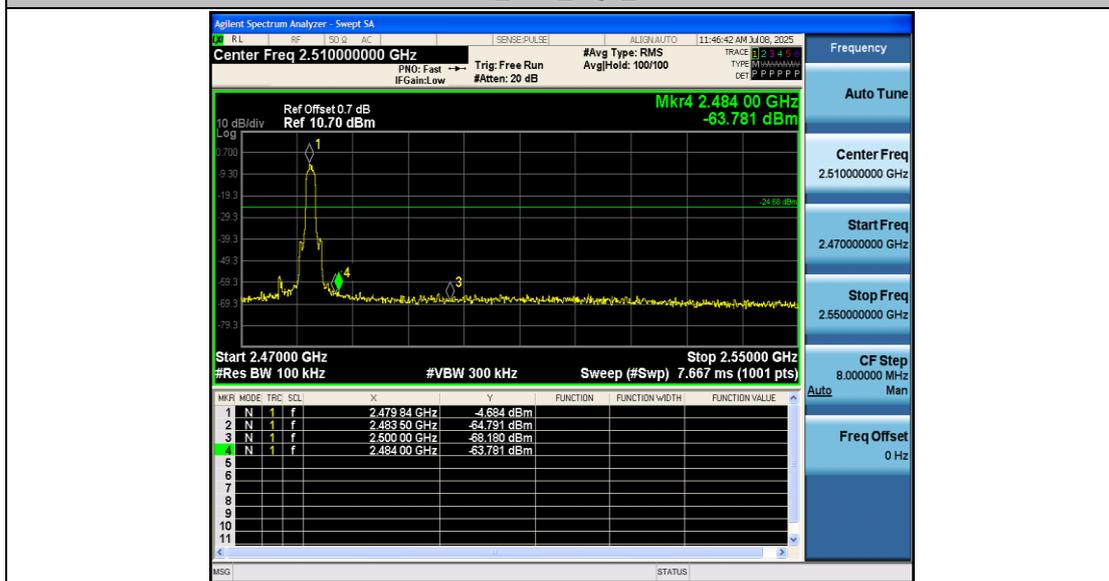
2DH5_Ant1_High_Hop_2480



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

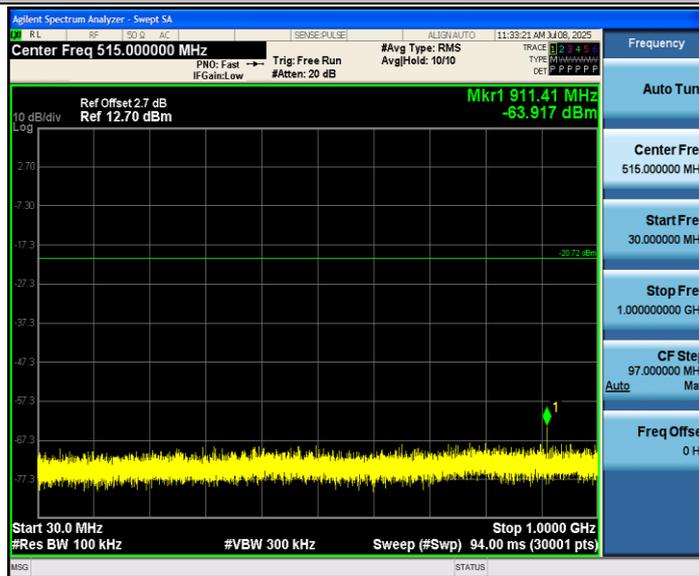
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-63.92	≤-20.72	PASS
			1000~26500	-0.72	-42.37	≤-20.72	PASS
		2441	Reference	-1.14	-1.14	---	PASS
			30~1000	-1.14	-67.22	≤-21.14	PASS
			1000~26500	-1.14	-42.7	≤-21.14	PASS
		2480	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-67.88	≤-20.91	PASS
			1000~26500	-0.91	-44.38	≤-20.91	PASS
2DH5	Ant1	2402	Reference	-6.72	-6.72	---	PASS
			30~1000	-6.72	-68.28	≤-26.72	PASS
			1000~26500	-6.72	-47.92	≤-26.72	PASS
		2441	Reference	-4.80	-4.80	---	PASS
			30~1000	-4.80	-67.85	≤-24.8	PASS
			1000~26500	-4.80	-46.95	≤-24.8	PASS
		2480	Reference	-5.46	-5.46	---	PASS
			30~1000	-5.46	-67.25	≤-25.46	PASS
			1000~26500	-5.46	-49.91	≤-25.46	PASS
3DH5	Ant1	2402	Reference	-6.44	-6.44	---	PASS
			30~1000	-6.44	-67.49	≤-26.44	PASS
			1000~26500	-6.44	-48.19	≤-26.44	PASS
		2441	Reference	-5.04	-5.04	---	PASS
			30~1000	-5.04	-67.54	≤-25.04	PASS
			1000~26500	-5.04	-48.49	≤-25.04	PASS
		2480	Reference	-6.17	-6.17	---	PASS
			30~1000	-6.17	-67.24	≤-26.17	PASS
			1000~26500	-6.17	-46.13	≤-26.17	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

