

FCC Appendix RF Test Data for BT

FCC ID : 2BGRL-T05

Company : Shenzhen Weikang JuLi Intelligent Technology Co., Ltd

EUT : WIRELESS KARAOKE SPEAKER

Model Number : T05

Report No. : CTA26062602101

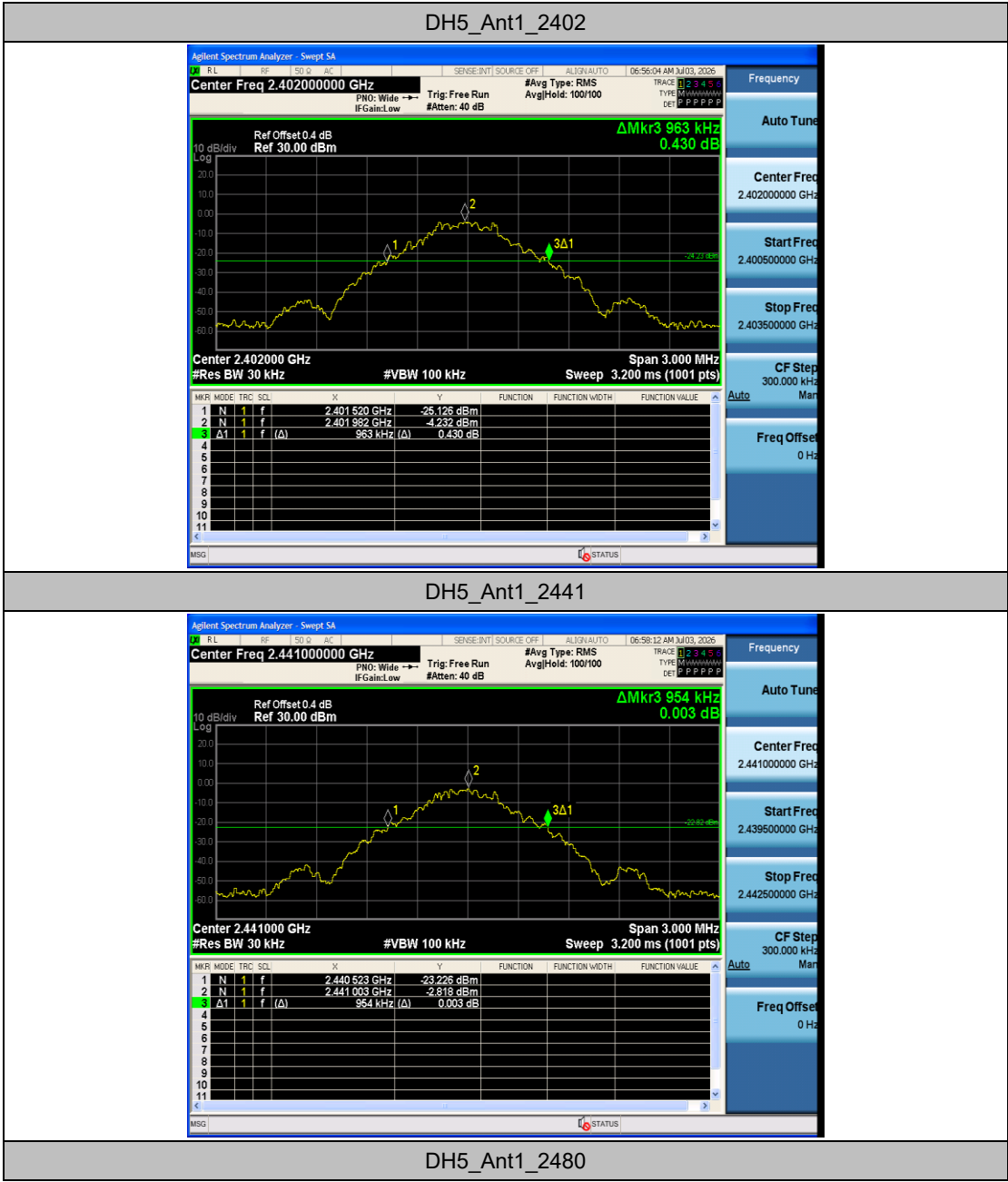
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.520	2402.483	---	---
		2441	0.954	2440.523	2441.477	---	---
		2480	0.945	2479.523	2480.468	---	---
2DH5	Ant1	2402	1.188	2401.385	2402.573	---	---
		2441	1.287	2440.352	2441.639	---	---
		2480	1.194	2479.385	2480.579	---	---
3DH5	Ant1	2402	1.260	2401.352	2402.612	---	---
		2441	1.206	2440.394	2441.600	---	---
		2480	1.254	2479.349	2480.603	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

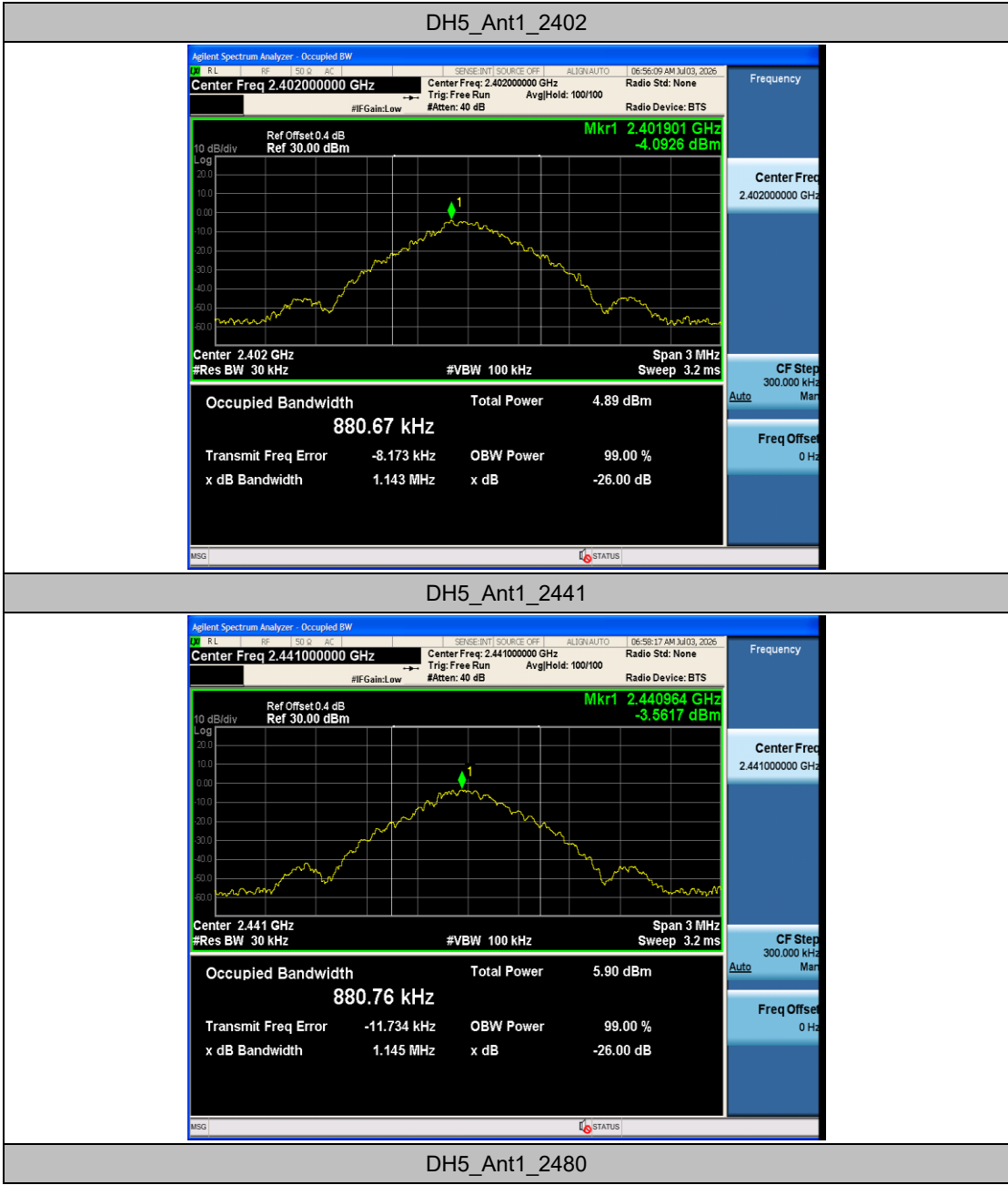


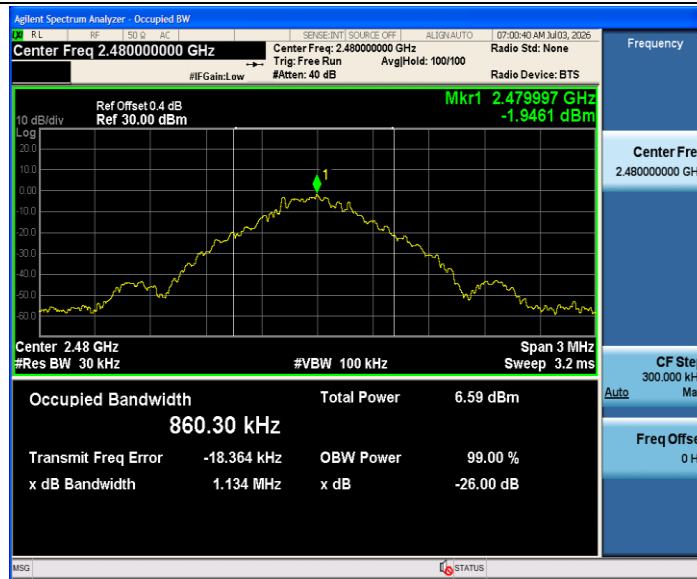
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88067	2401.5515	2402.4322	---	---
		2441	0.88076	2440.5479	2441.4287	---	---
		2480	0.86030	2479.5515	2480.4118	---	---
2DH5	Ant1	2402	1.1465	2401.4102	2402.5567	---	---
		2441	1.1443	2440.4138	2441.5581	---	---
		2480	1.1502	2479.4106	2480.5608	---	---
3DH5	Ant1	2402	1.1386	2401.4202	2402.5588	---	---
		2441	1.1621	2440.4097	2441.5718	---	---
		2480	1.1791	2479.3999	2480.5790	---	---

Test Graphs





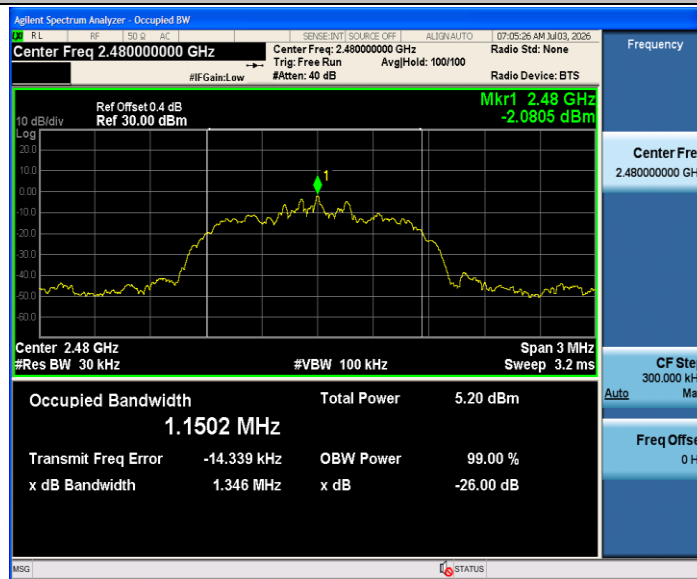
2DH5_Ant1_2402



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	-1.36	≤20.97	PASS
		2441	-0.59	≤20.97	PASS
		2480	-0.10	≤20.97	PASS
2DH5	Ant1	2402	-1.40	≤20.97	PASS
		2441	-0.56	≤20.97	PASS
		2480	-0.10	≤20.97	PASS
3DH5	Ant1	2402	-1.41	≤20.97	PASS
		2441	-0.58	≤20.97	PASS
		2480	-0.15	≤20.97	PASS

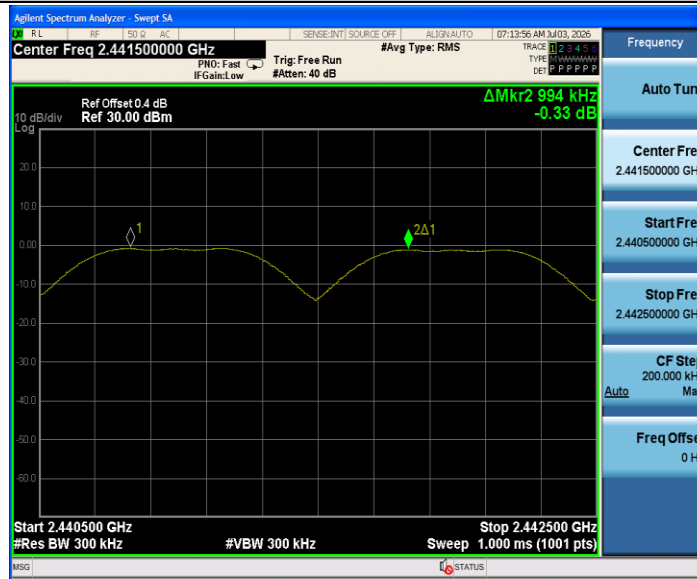
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.963	PASS
2DH5	Ant1	Hop	1.002	≥ 0.858	PASS
3DH5	Ant1	Hop	1.016	≥ 0.840	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

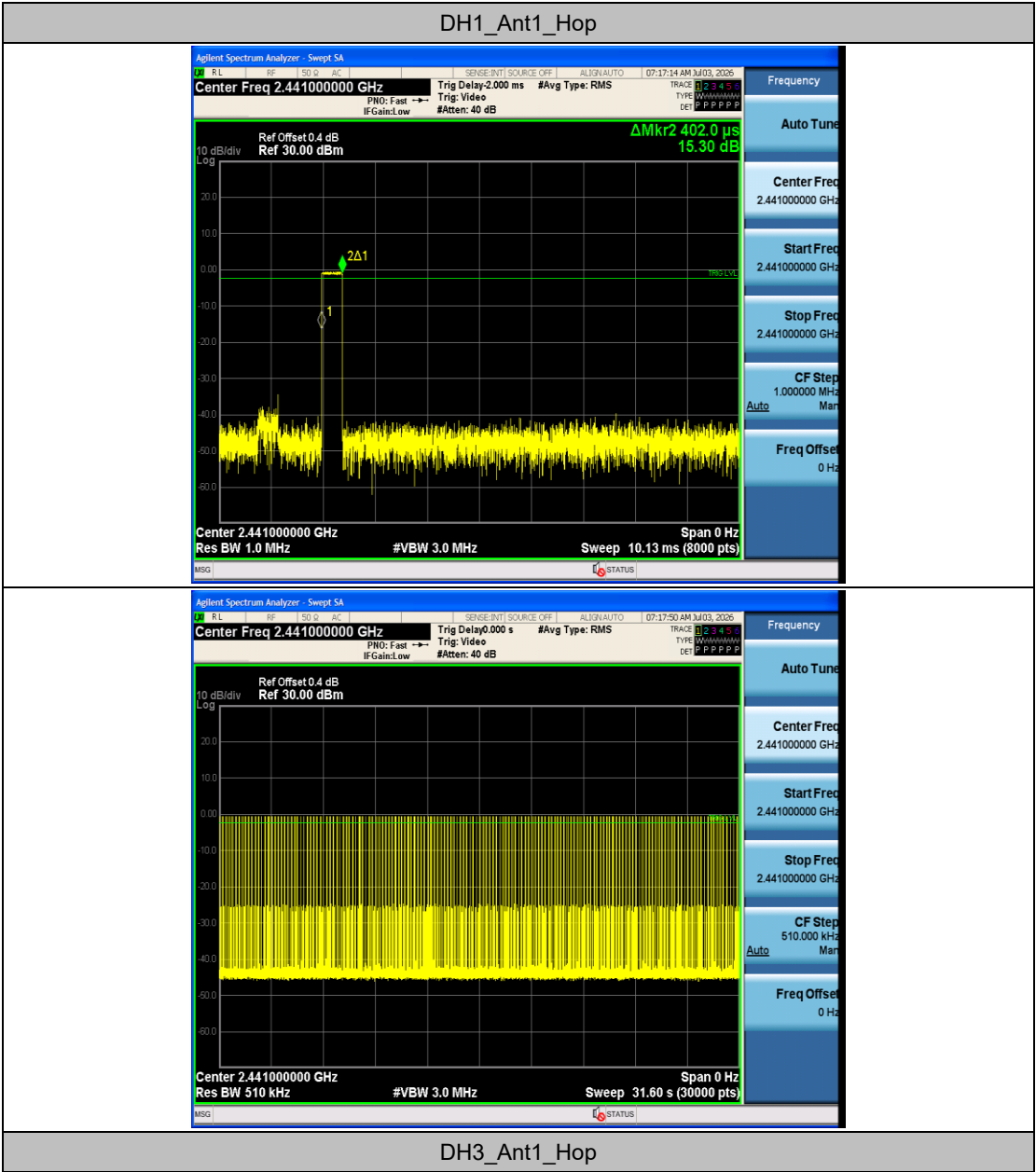


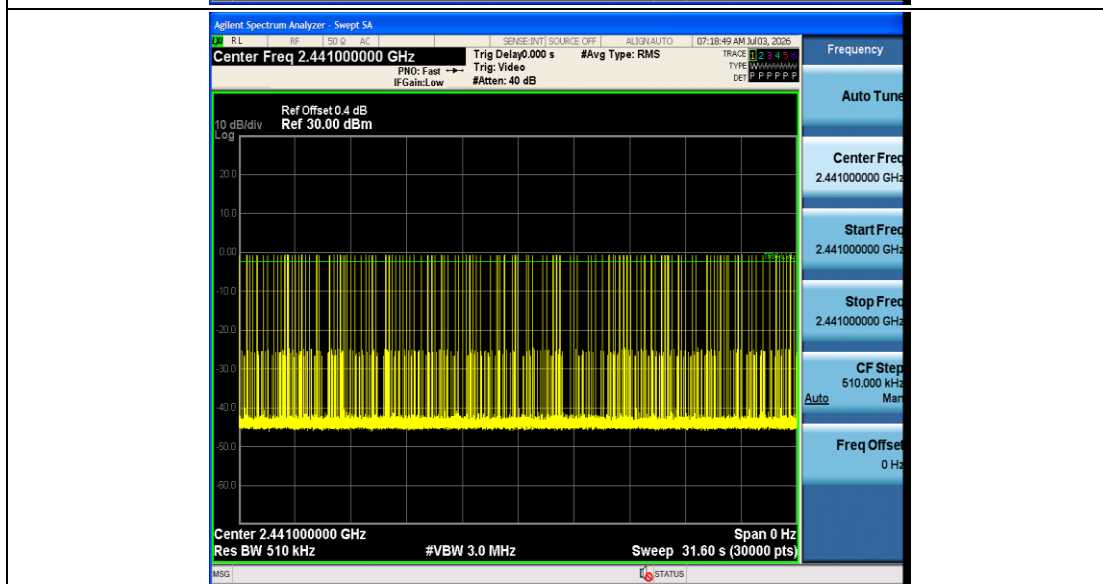
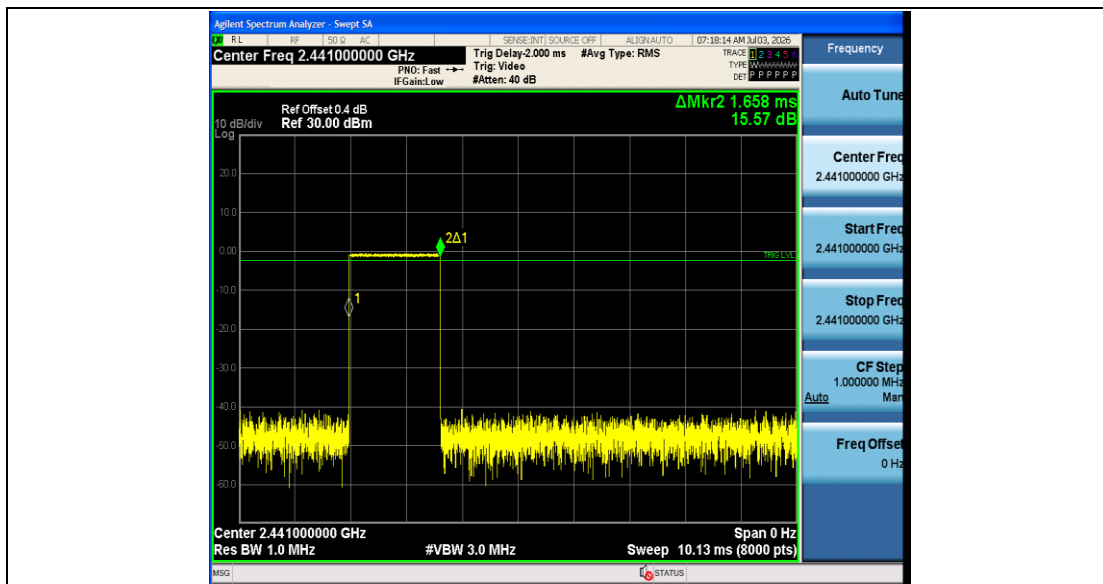
Appendix E: Time of occupancy

Test Result

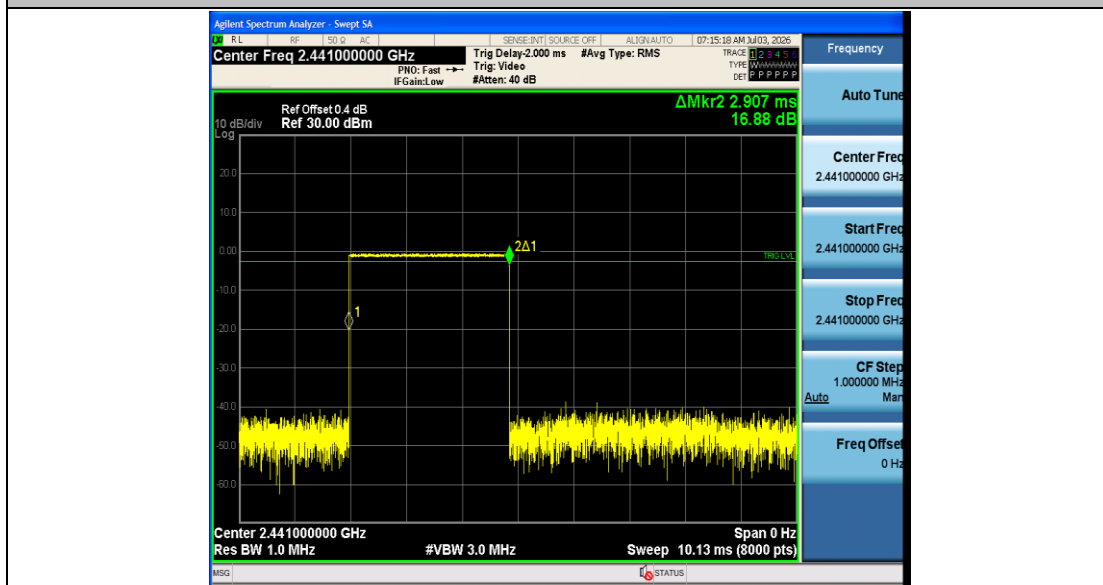
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.402	311	0.125	≤0.4	PASS
DH3	Ant1	Hop	1.658	157	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.907	112	0.326	≤0.4	PASS
2DH1	Ant1	Hop	0.413	317	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.664	160	0.266	≤0.4	PASS
2DH5	Ant1	Hop	2.912	107	0.312	≤0.4	PASS
3DH1	Ant1	Hop	0.412	318	0.131	≤0.4	PASS
3DH3	Ant1	Hop	1.663	153	0.254	≤0.4	PASS
3DH5	Ant1	Hop	2.913	114	0.332	≤0.4	PASS

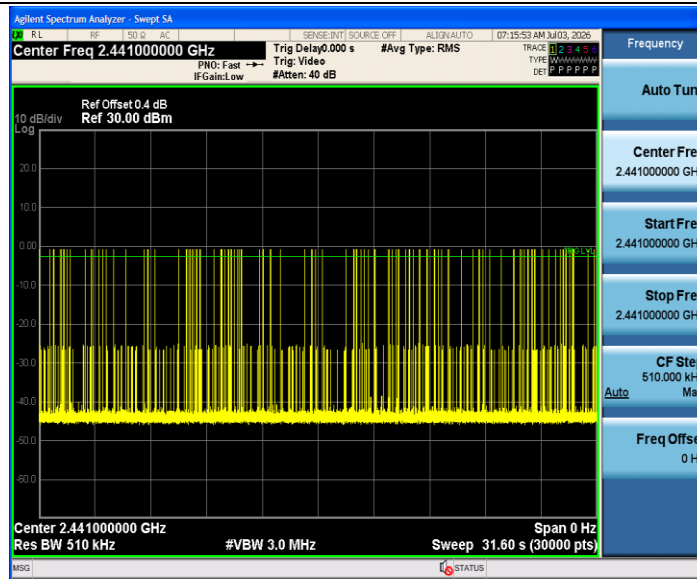
Test Graphs



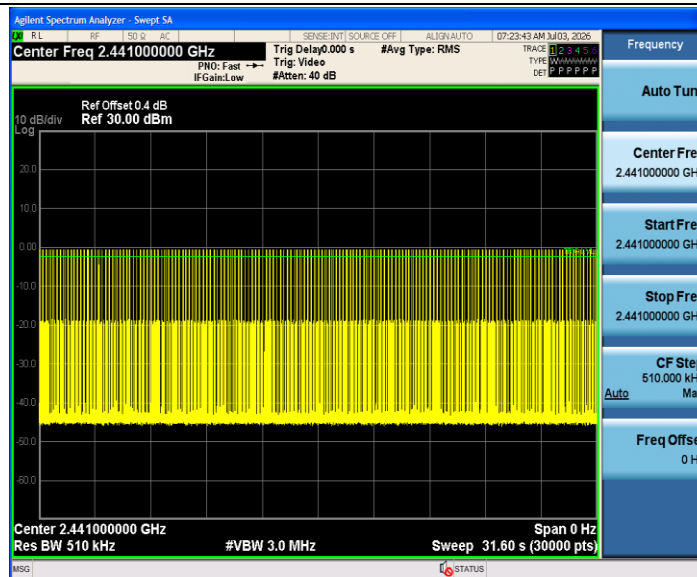
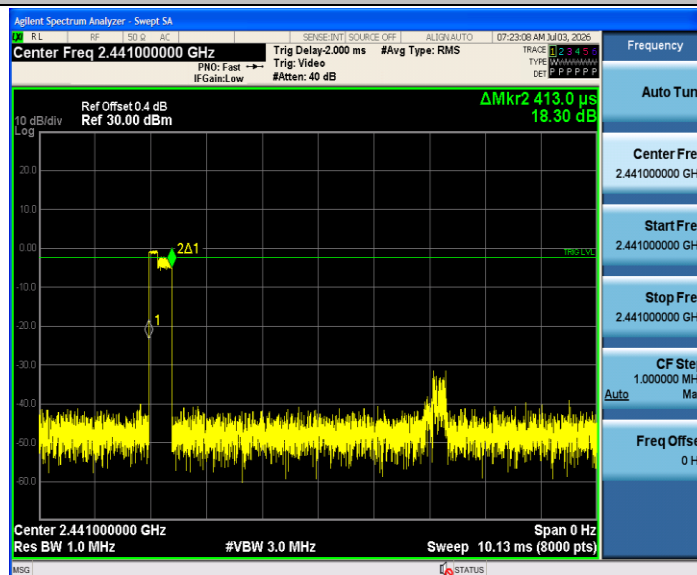


DH5_Ant1_Hop

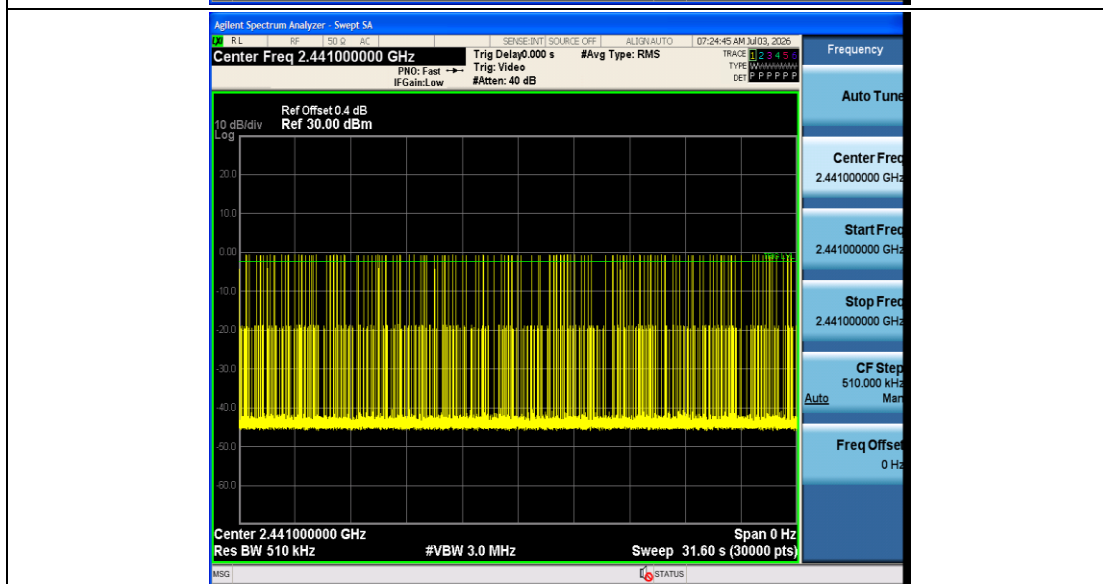
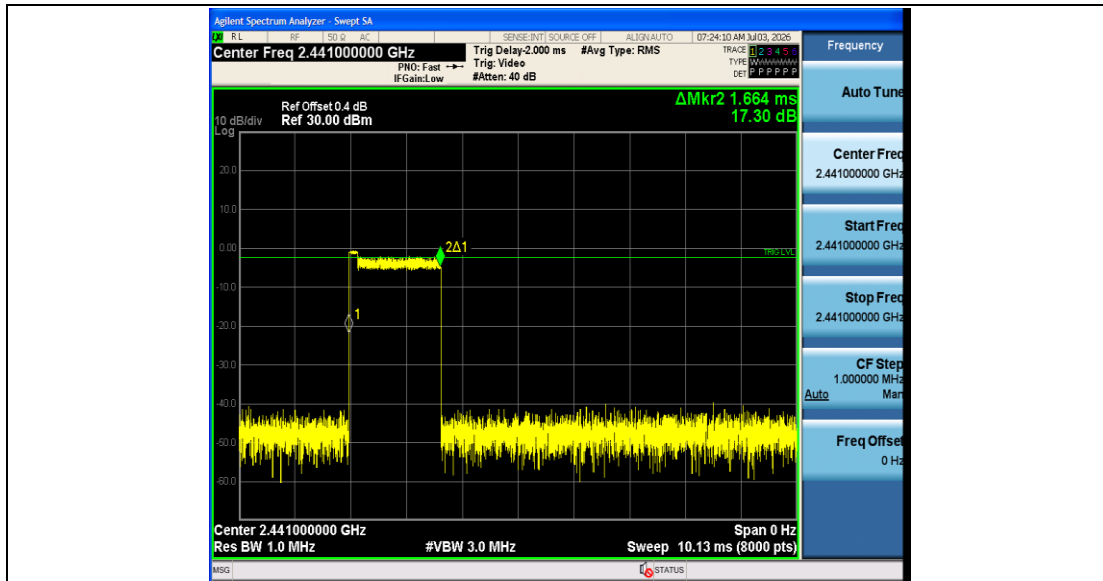




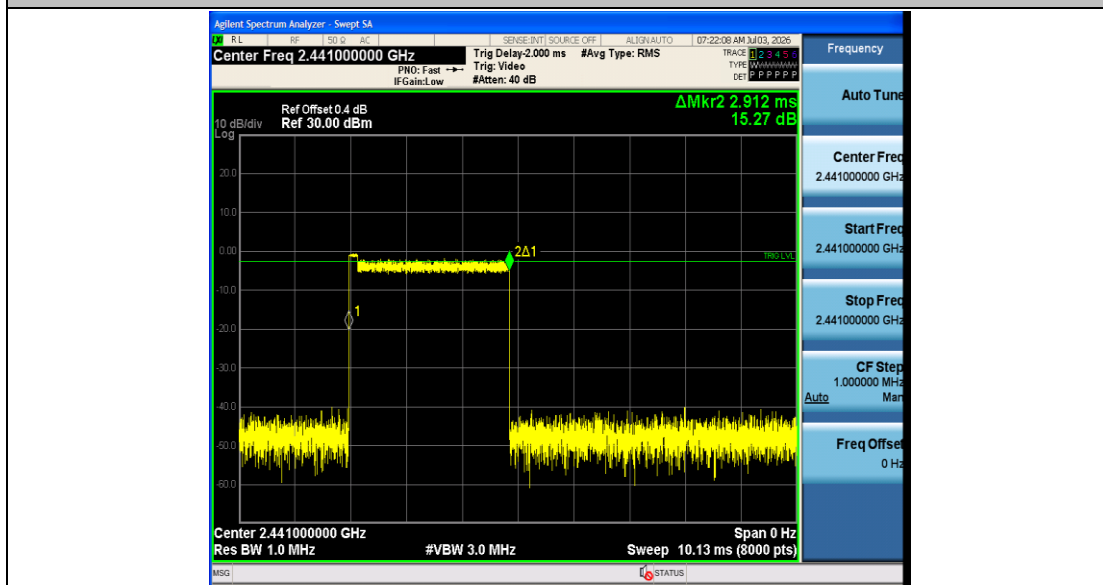
2DH1_Ant1_Hop

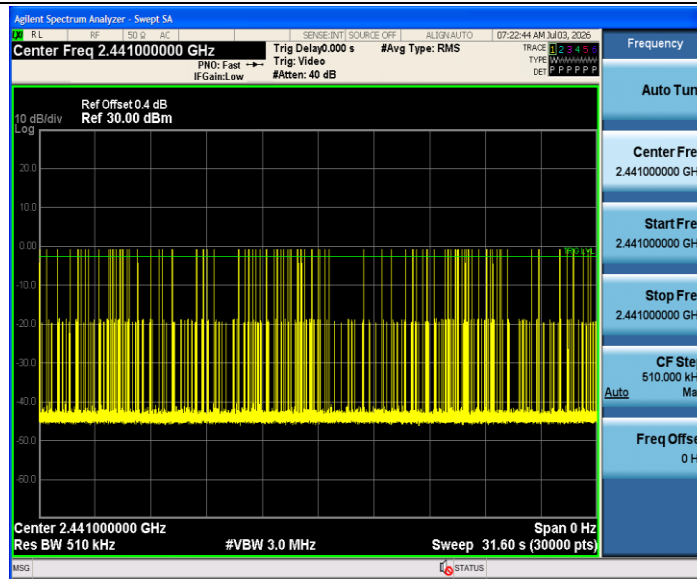


2DH3_Ant1_Hop

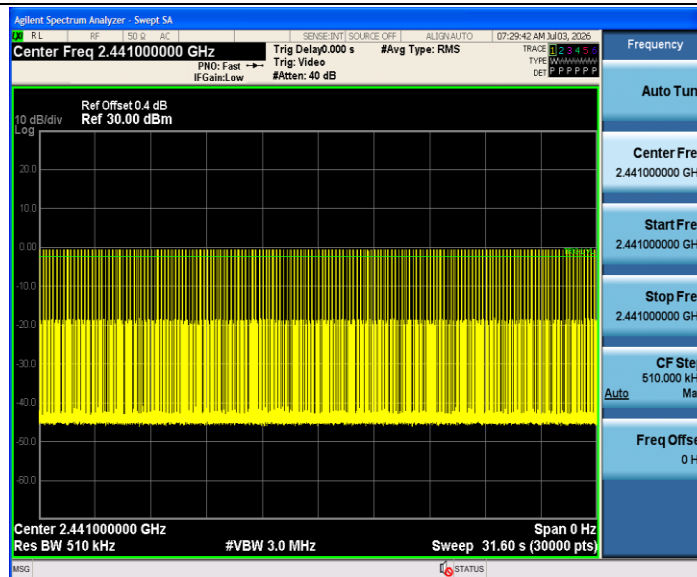
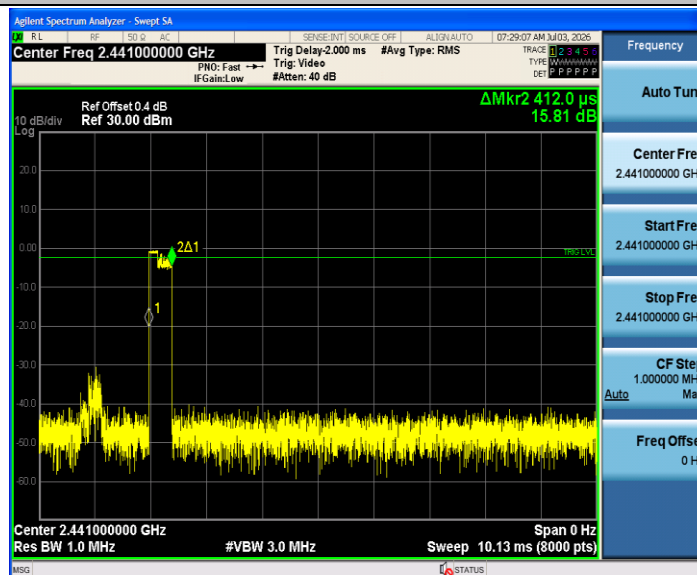


2DH5_Ant1_Hop

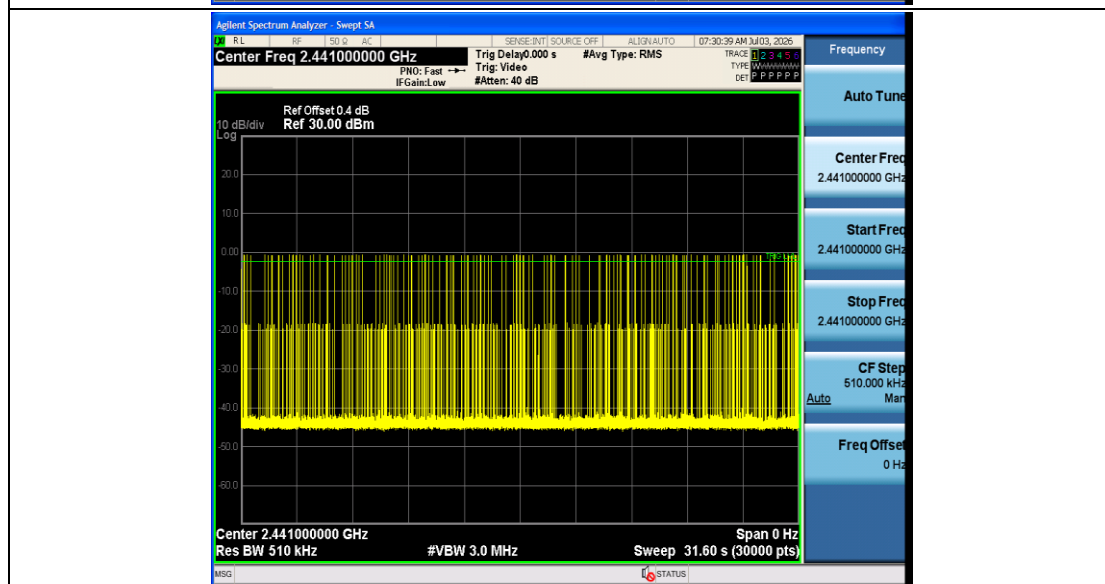
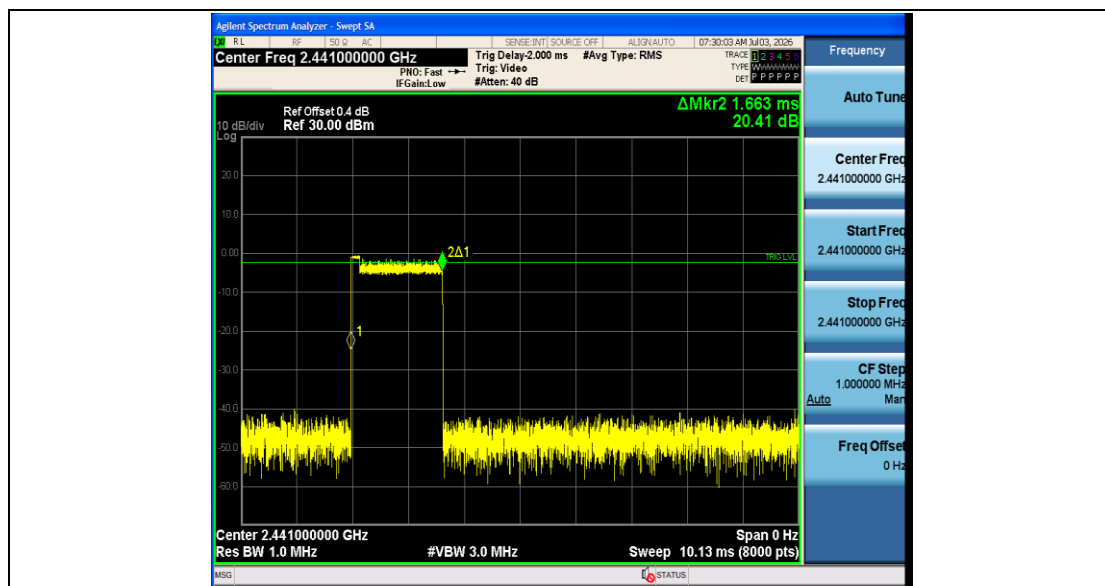




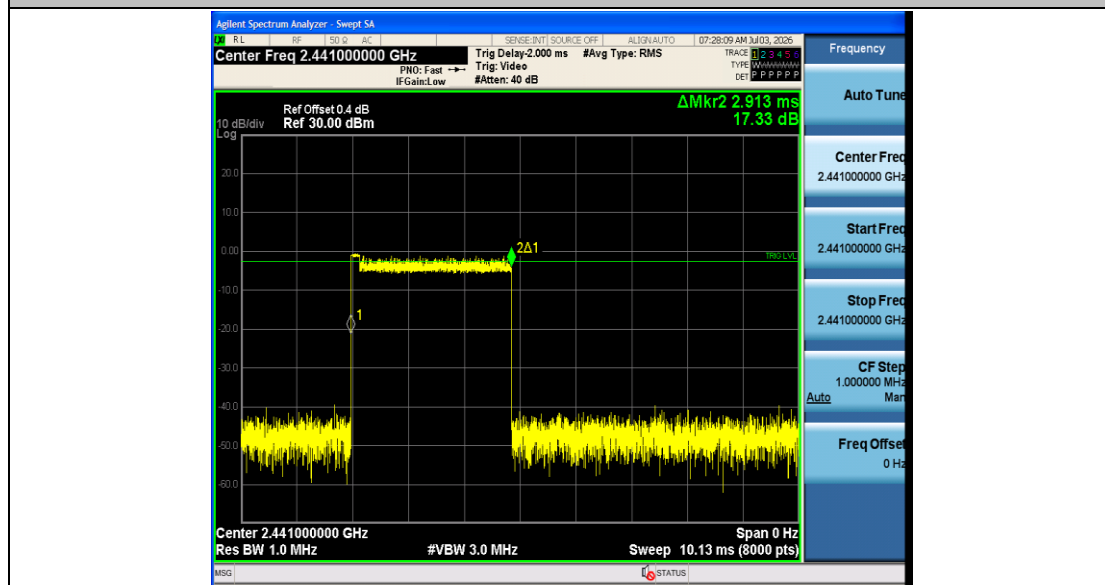
3DH1_Ant1_Hop

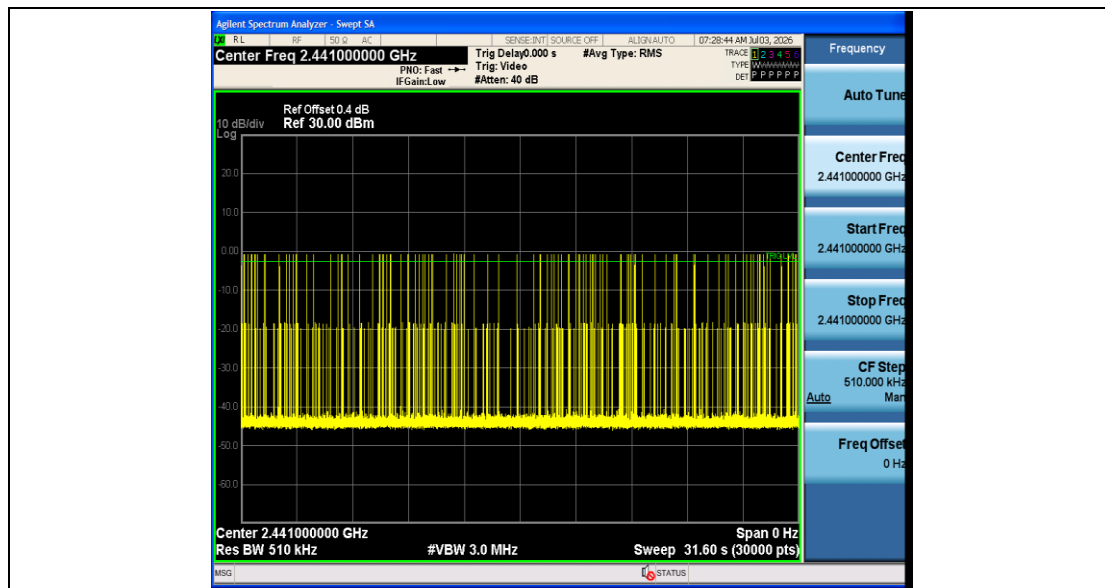


3DH3_Ant1_Hop



3DH5_Ant1_Hop



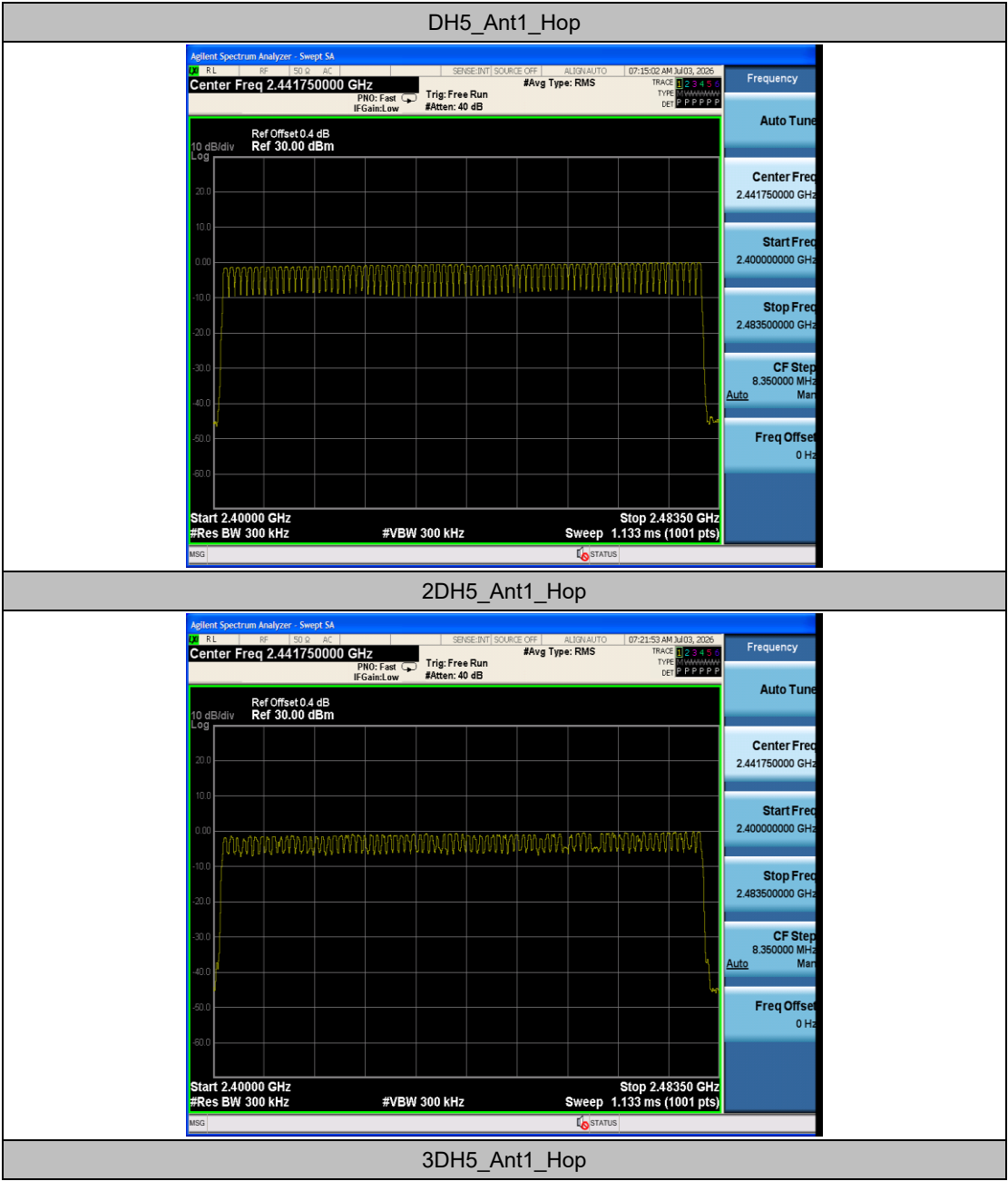


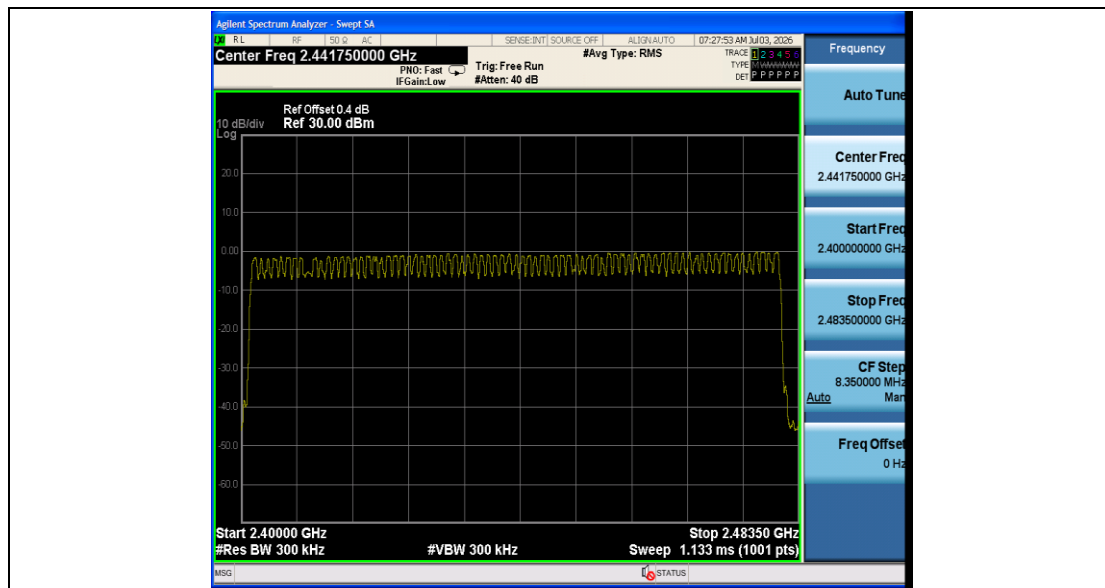
Appendix F: Number of hopping channels

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



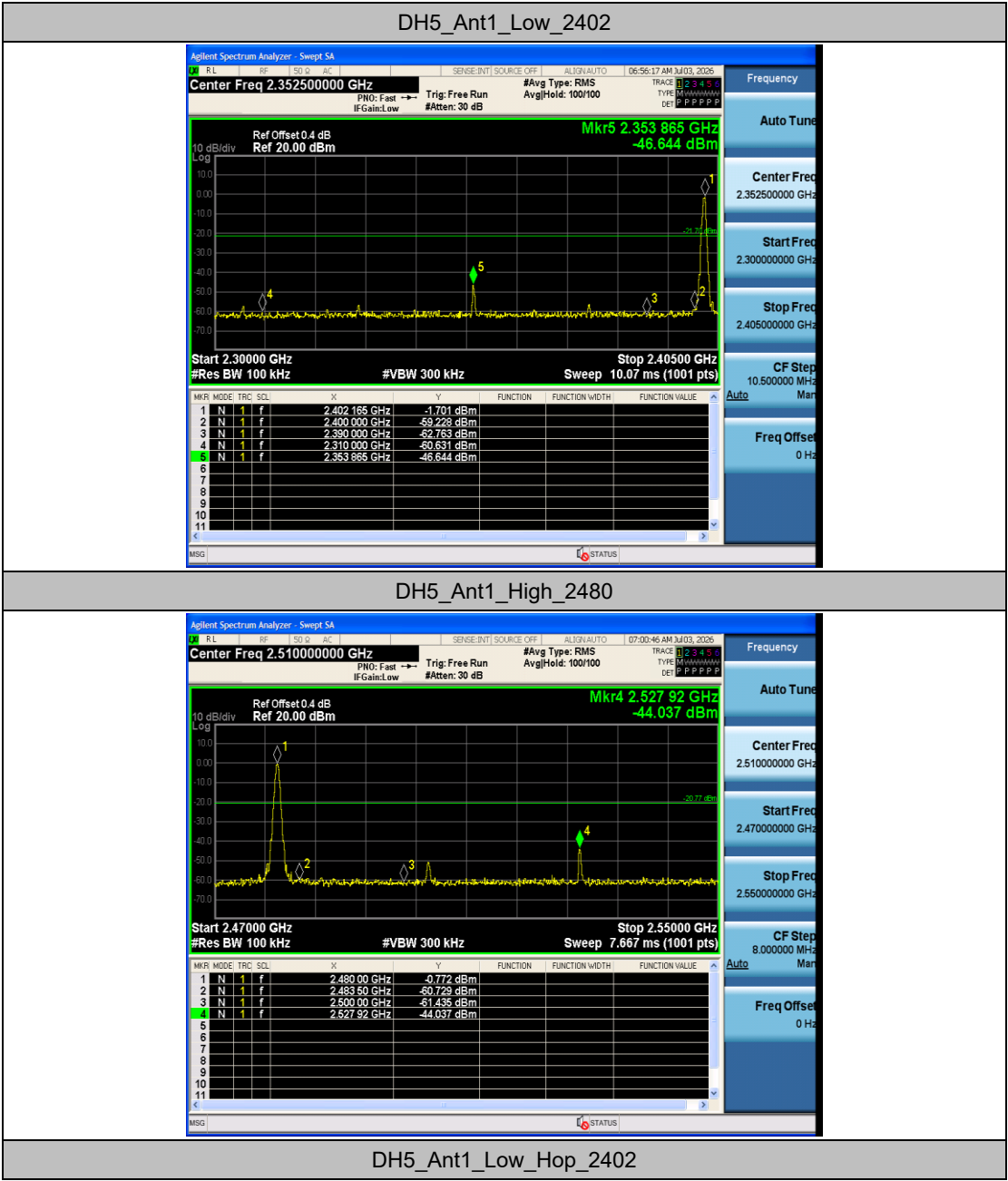


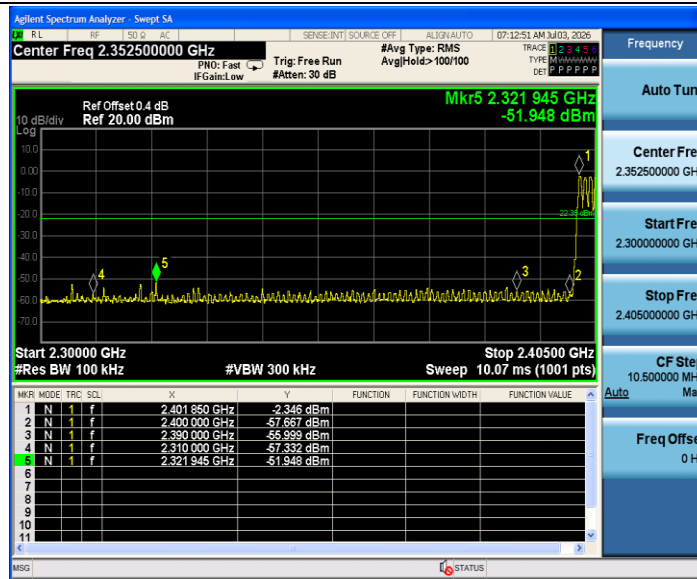
Appendix G: Band edge measurements

Test Result

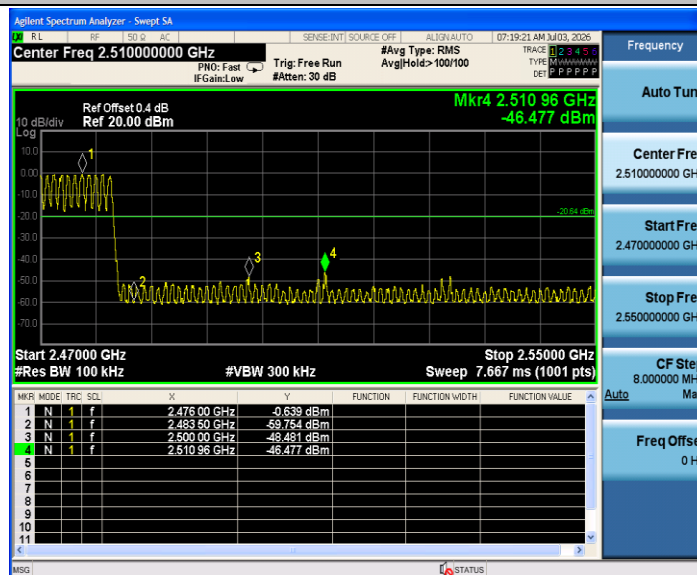
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.70	-46.64	≤ -21.7	PASS
		High	2480	-0.77	-44.04	≤ -20.77	PASS
		Low	Hop_2402	-2.35	-51.95	≤ -22.35	PASS
		High	Hop_2480	-0.64	-46.48	≤ -20.64	PASS
2DH5	Ant1	Low	2402	-2.00	-57.03	≤ -22	PASS
		High	2480	-1.79	-51.47	≤ -21.79	PASS
		Low	Hop_2402	-6.52	-55.51	≤ -26.52	PASS
		High	Hop_2480	-1.10	-50.97	≤ -21.1	PASS
3DH5	Ant1	Low	2402	-1.73	-52.12	≤ -21.73	PASS
		High	2480	-1.23	-52.17	≤ -21.23	PASS
		Low	Hop_2402	-3.42	-55.8	≤ -23.42	PASS
		High	Hop_2480	-0.54	-44.49	≤ -20.54	PASS

Test Graphs

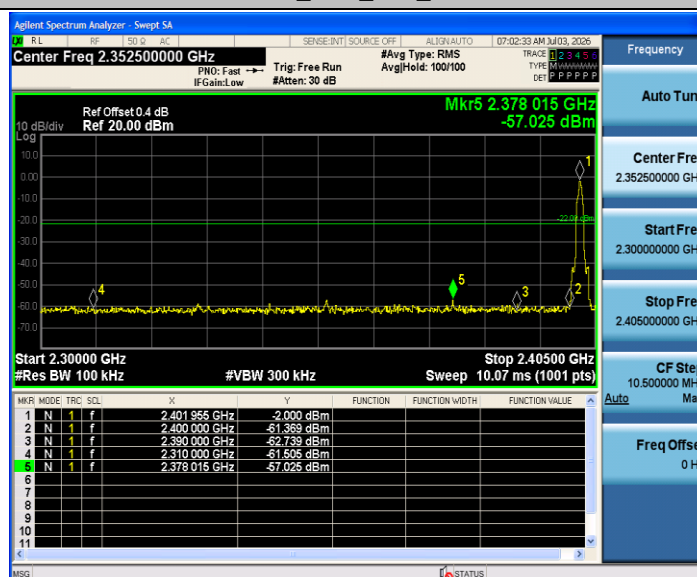




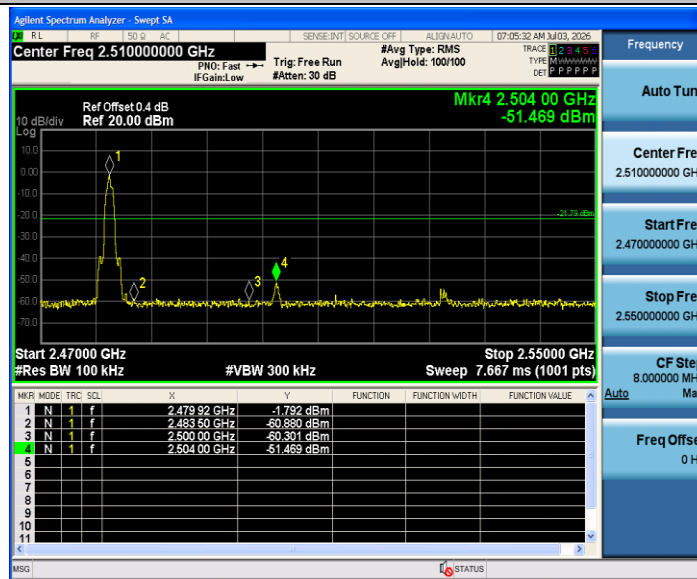
DH5_Ant1_High_Hop_2480



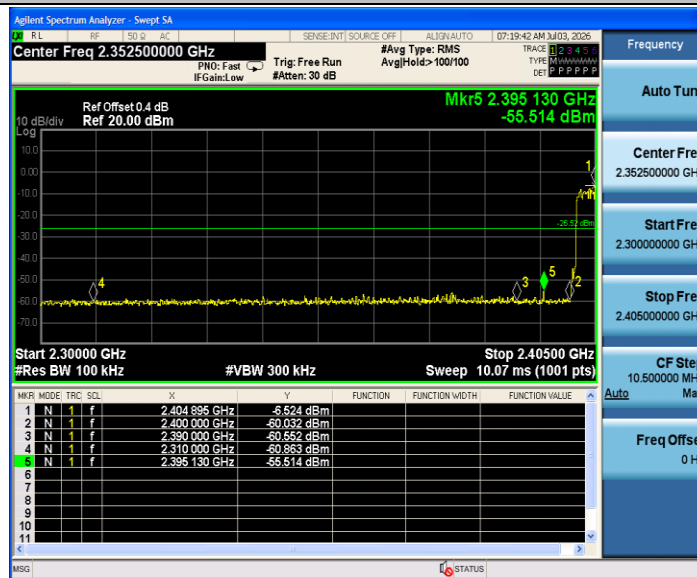
2DH5_Ant1_Low_2402



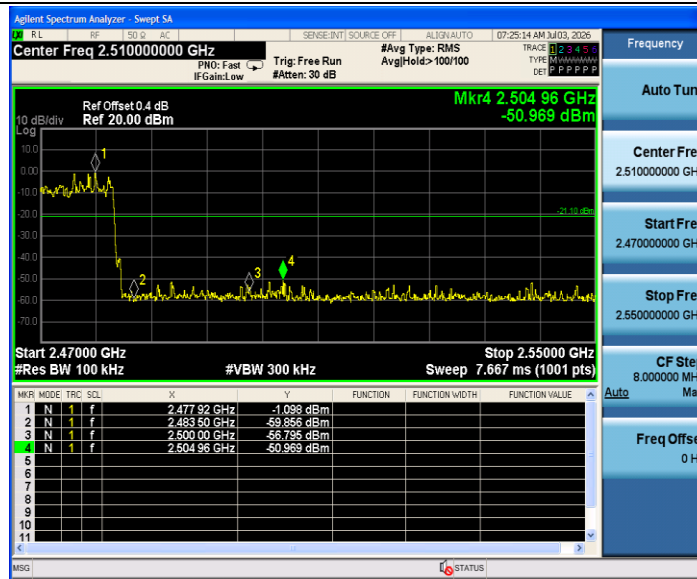
2DH5_Ant1_High_2480



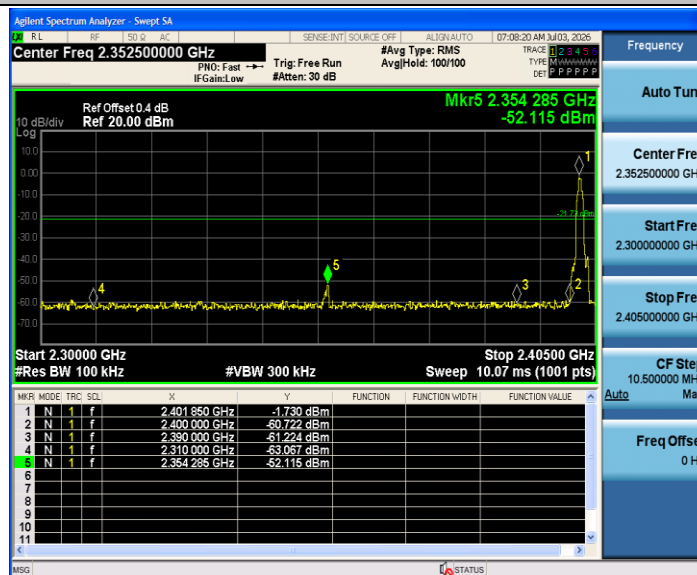
2DH5_Ant1_Low_Hop_2402



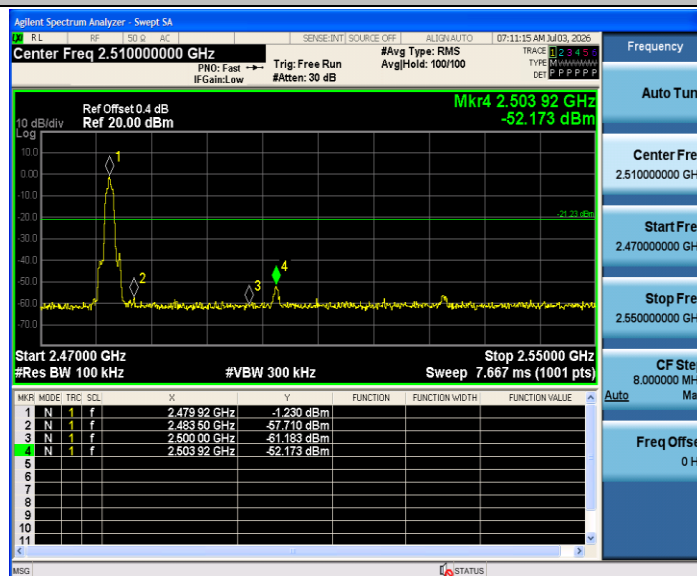
2DH5_Ant1_High_Hop_2480



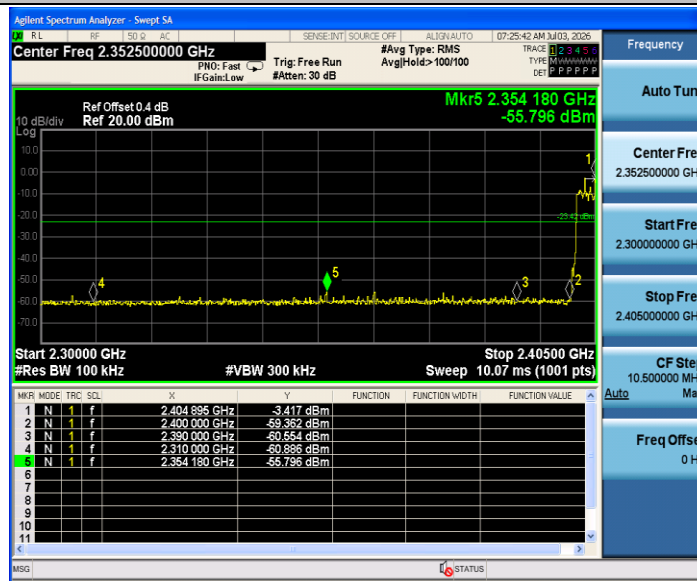
3DH5_Ant1_Low_2402



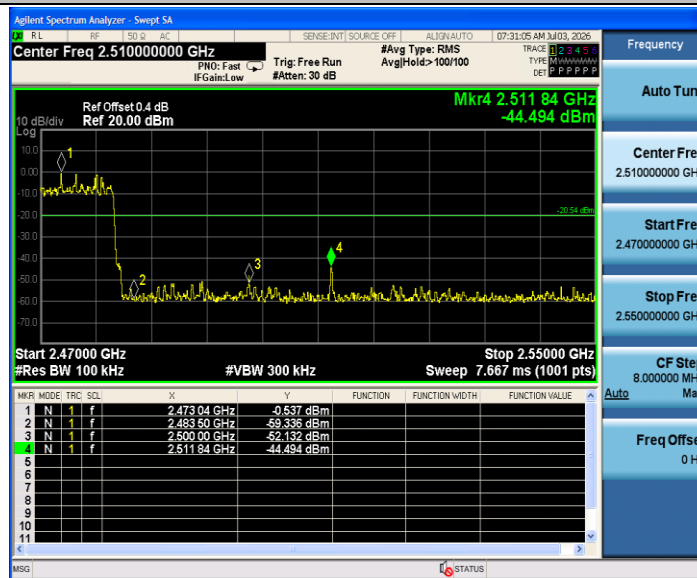
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

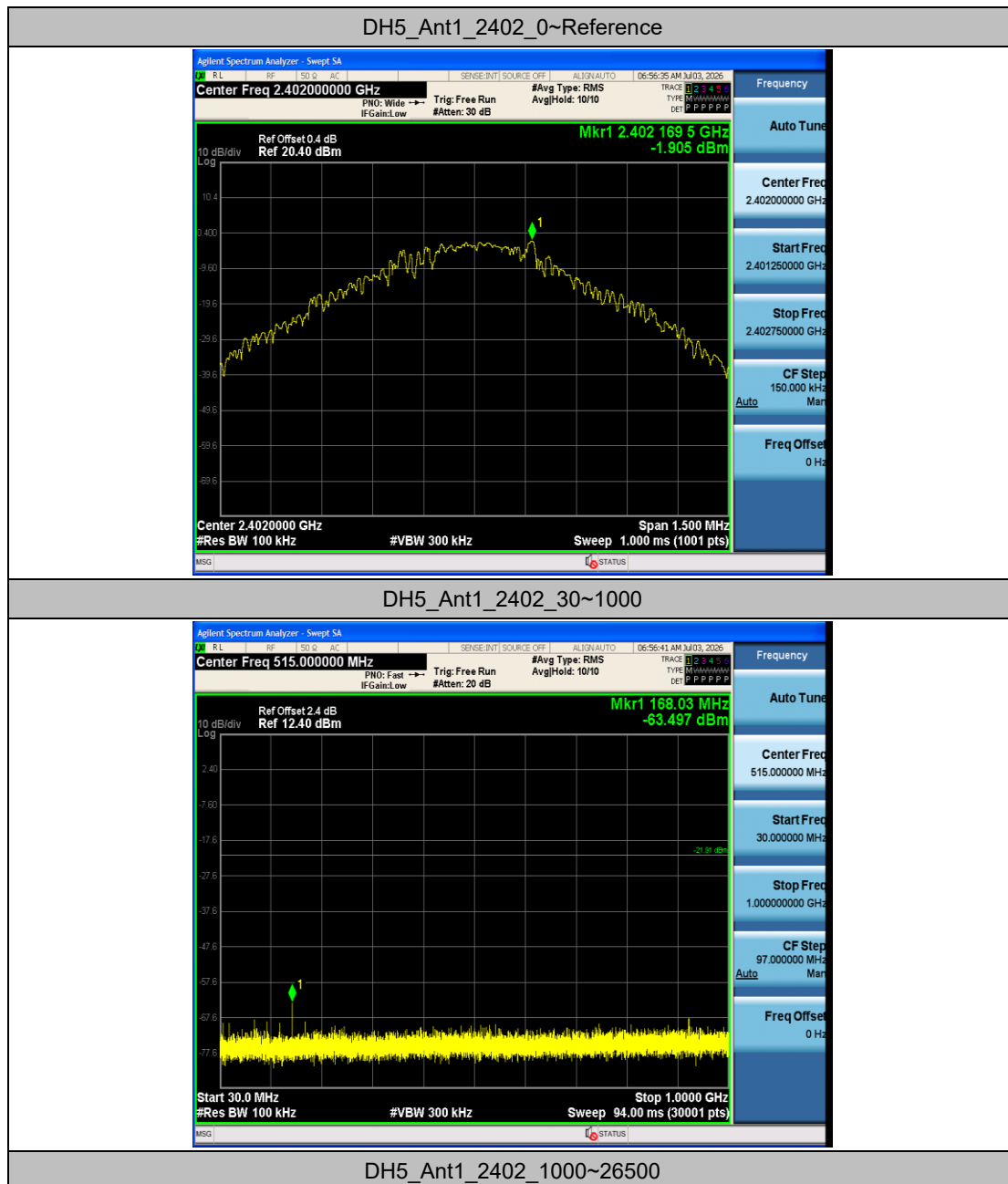


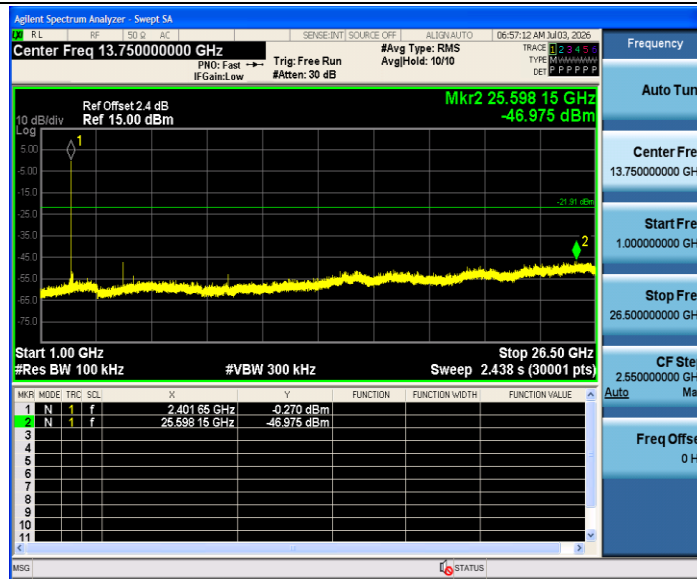
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.91	-1.91	---	PASS
			30~1000	-1.91	-63.5	≤-21.91	PASS
			1000~26500	-1.91	-46.98	≤-21.91	PASS
		2441	Reference	-1.62	-1.62	---	PASS
			30~1000	-1.62	-63.21	≤-21.62	PASS
			1000~26500	-1.62	-46.56	≤-21.62	PASS
		2480	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-62.67	≤-21.35	PASS
			1000~26500	-1.35	-45.95	≤-21.35	PASS
2DH5	Ant1	2402	Reference	-4.27	-4.27	---	PASS
			30~1000	-4.27	-61.22	≤-24.27	PASS
			1000~26500	-4.27	-46.76	≤-24.27	PASS
		2441	Reference	-2.99	-2.99	---	PASS
			30~1000	-2.99	-63.09	≤-22.99	PASS
			1000~26500	-2.99	-46.64	≤-22.99	PASS
		2480	Reference	-2.60	-2.60	---	PASS
			30~1000	-2.60	-50.67	≤-22.6	PASS
			1000~26500	-2.60	-45.95	≤-22.6	PASS
3DH5	Ant1	2402	Reference	-2.50	-2.50	---	PASS
			30~1000	-2.50	-62.26	≤-22.5	PASS
			1000~26500	-2.50	-47.15	≤-22.5	PASS
		2441	Reference	-6.73	-6.73	---	PASS
			30~1000	-6.73	-49.64	≤-26.73	PASS
			1000~26500	-6.73	-44.88	≤-26.73	PASS
		2480	Reference	-0.87	-0.87	---	PASS
			30~1000	-0.87	-62.84	≤-20.87	PASS
			1000~26500	-0.87	-47.3	≤-20.87	PASS

Test Graphs

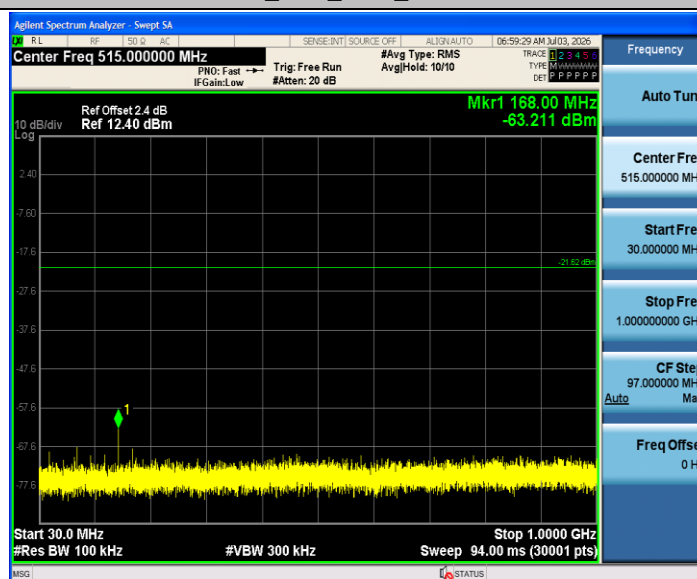




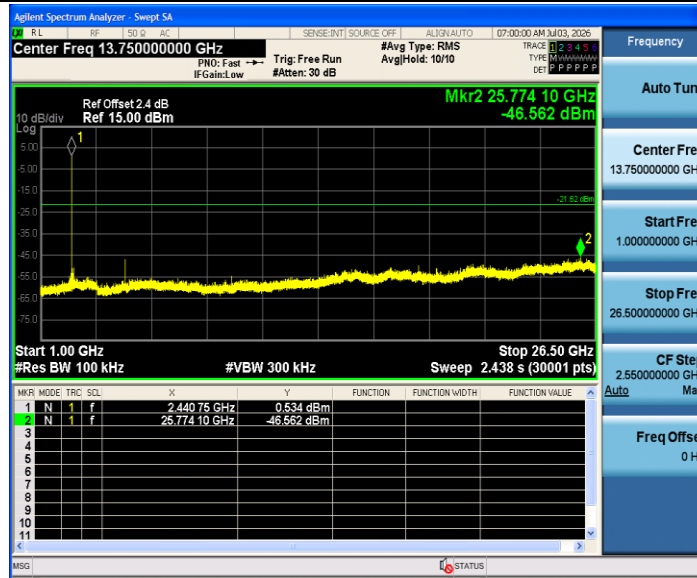
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



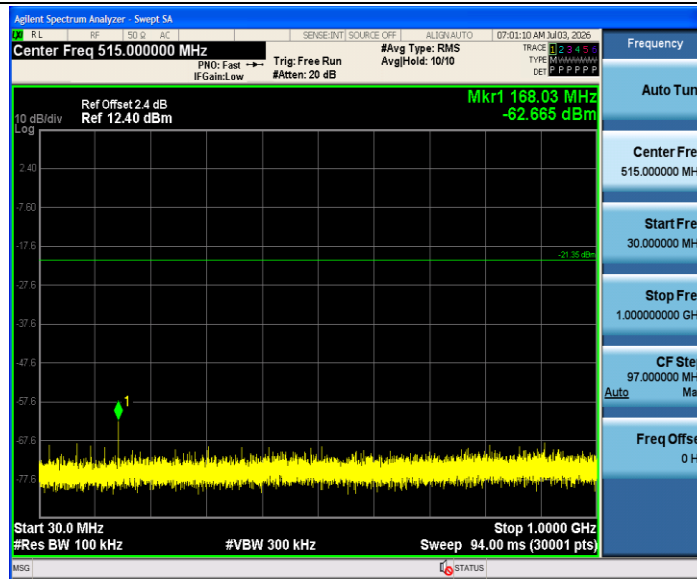
DH5_Ant1_2441_1000~26500



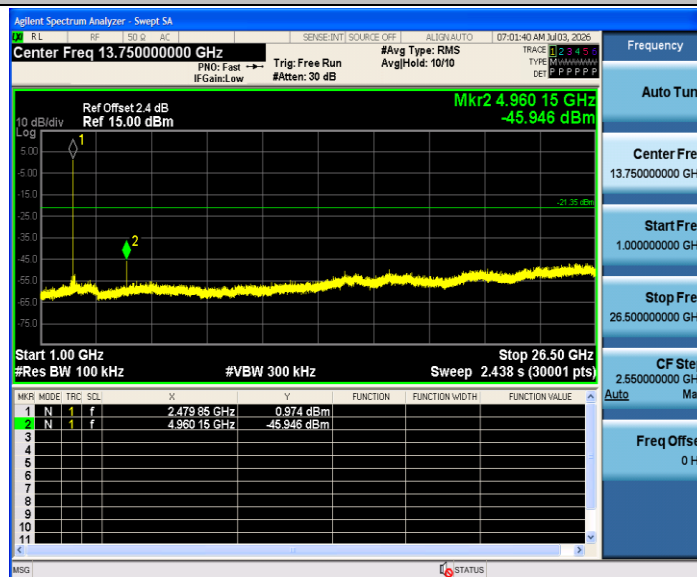
DH5_Ant1_2480_0~Reference



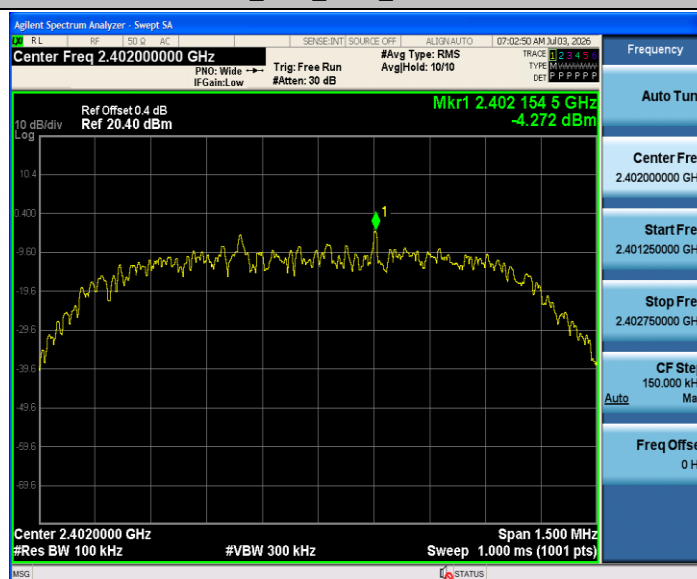
DH5_Ant1_2480_30~1000



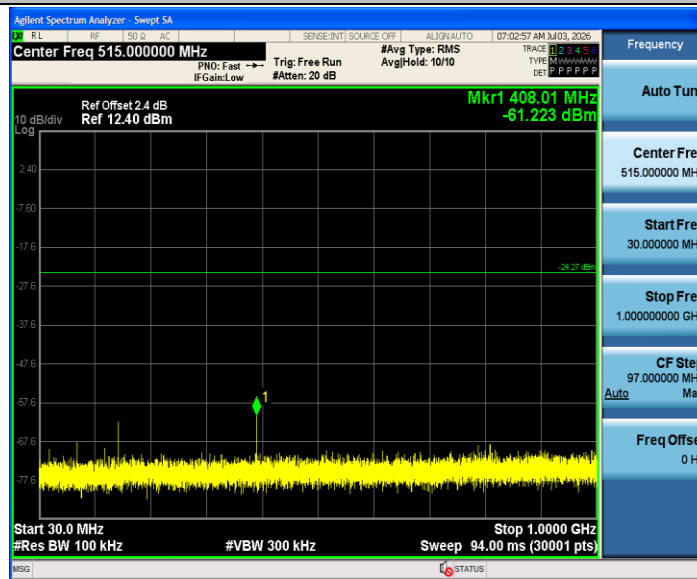
DH5_Ant1_2480_1000~26500



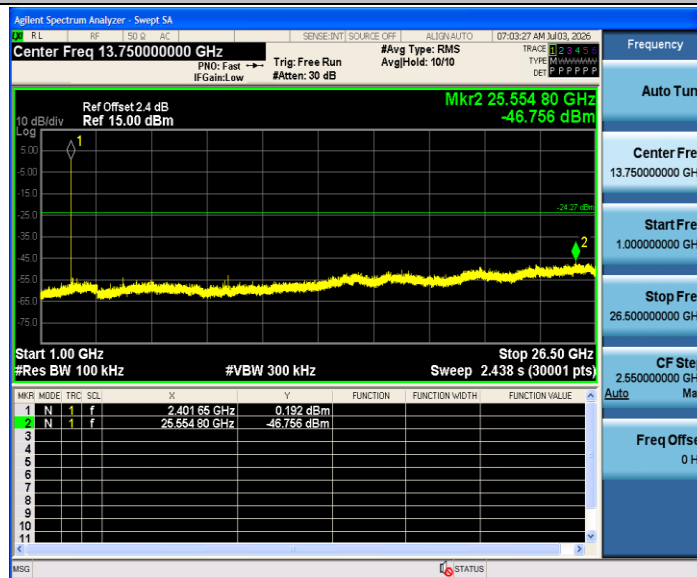
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference