

FCC Appendix RF Test Data for BT

FCC ID : 2BVVG-SECHOER4EVO

Company : Shenzhen Sechoer Technology Co., Ltd.

EUT : Smart helmet

Model Number : Sechoer4 EVO

Report No. : CTA26041101901

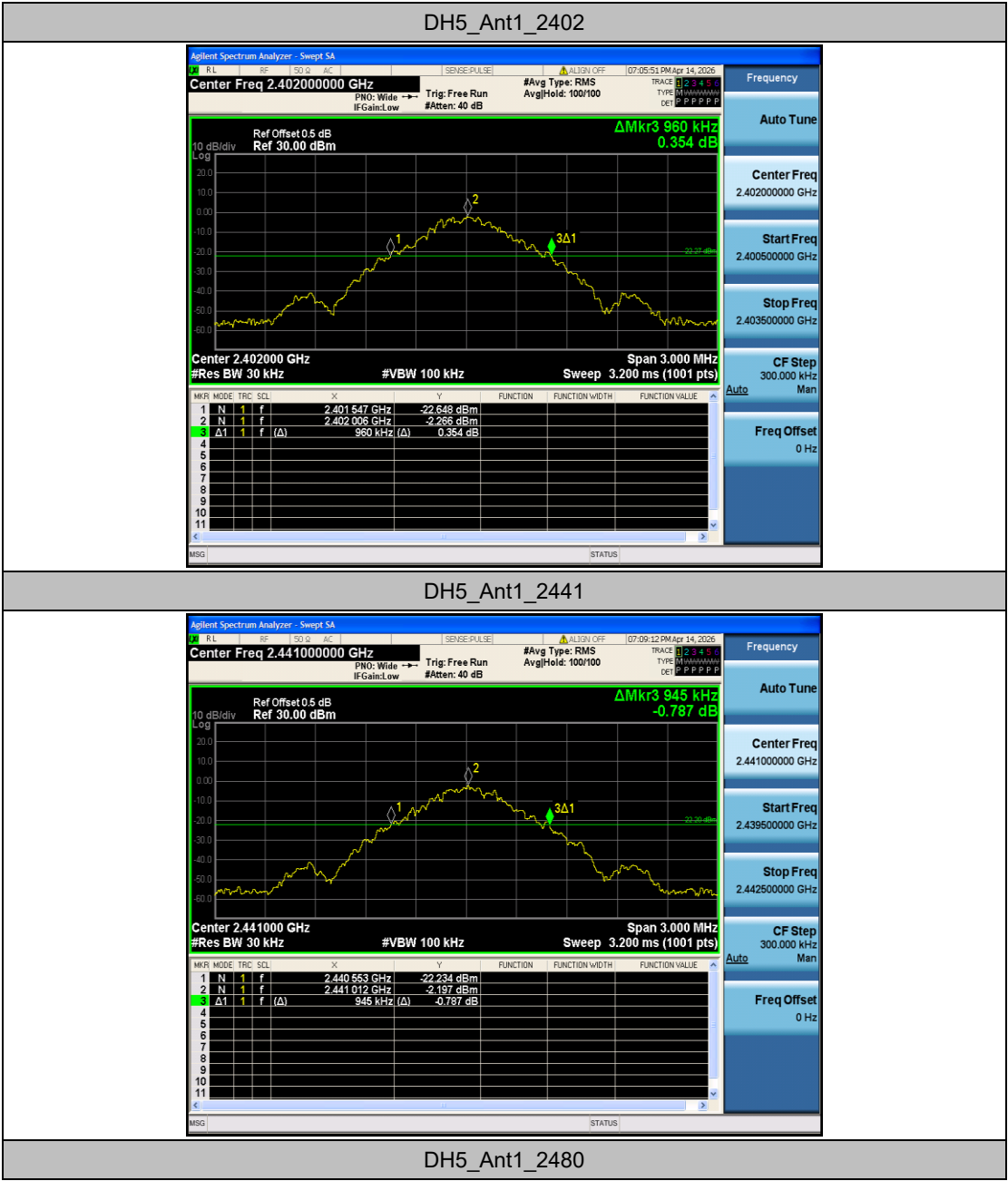
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.960	2401.547	2402.507	---	---
		2441	0.945	2440.553	2441.498	---	---
		2480	0.963	2479.544	2480.507	---	---
2DH5	Ant1	2402	1.284	2401.382	2402.666	---	---
		2441	1.329	2440.343	2441.672	---	---
		2480	1.314	2479.355	2480.669	---	---
3DH5	Ant1	2402	1.311	2401.358	2402.669	---	---
		2441	1.302	2440.355	2441.657	---	---
		2480	1.320	2479.358	2480.678	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

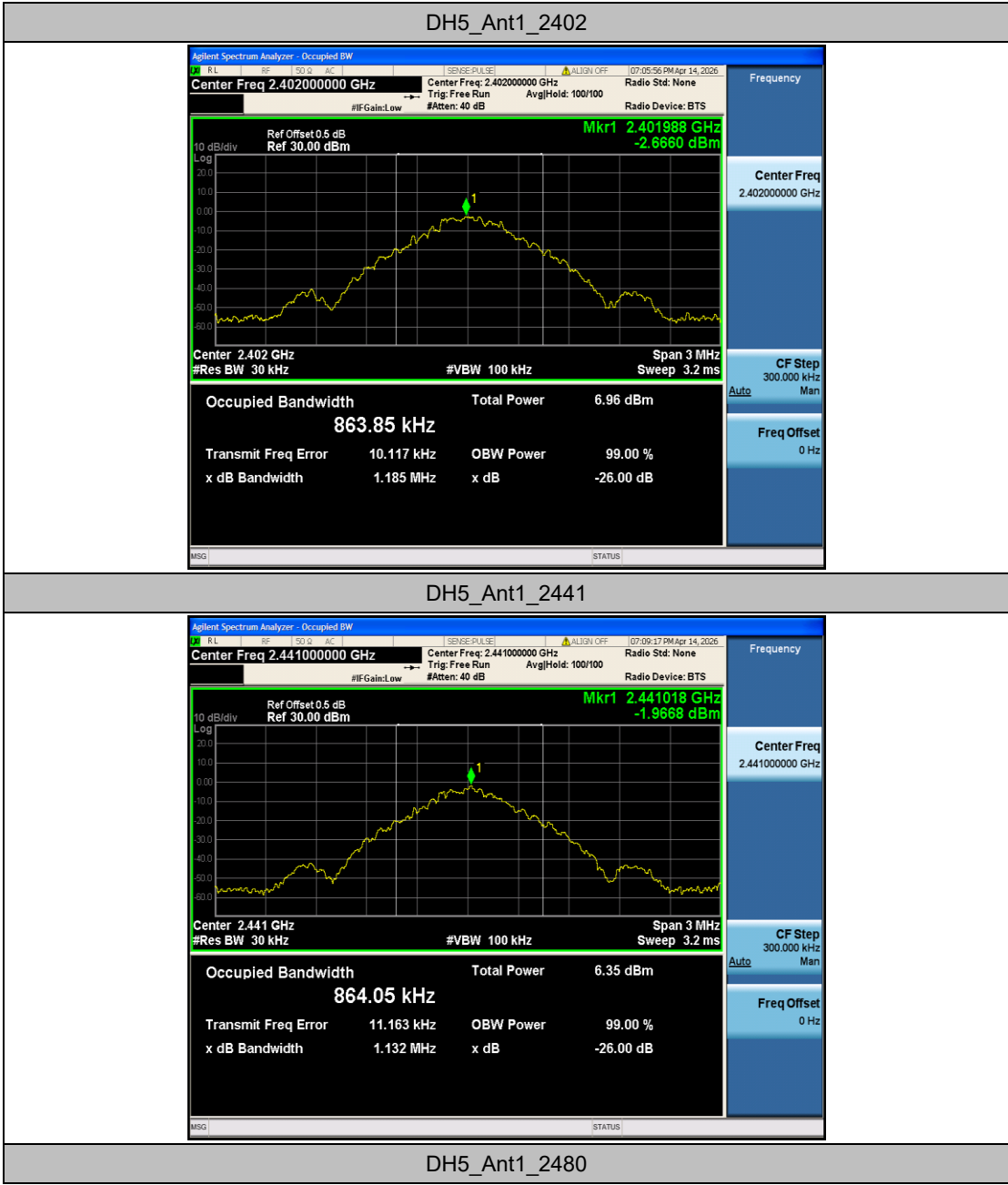


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86385	2401.5782	2402.4420	---	---
		2441	0.86405	2440.5791	2441.4432	---	---
		2480	0.87287	2479.5793	2480.4522	---	---
2DH5	Ant1	2402	1.1892	2401.4186	2402.6078	---	---
		2441	1.1912	2440.4166	2441.6078	---	---
		2480	1.1996	2479.4149	2480.6145	---	---
3DH5	Ant1	2402	1.1902	2401.4179	2402.6081	---	---
		2441	1.1977	2440.4130	2441.6107	---	---
		2480	1.1918	2479.4171	2480.6089	---	---

Test Graphs





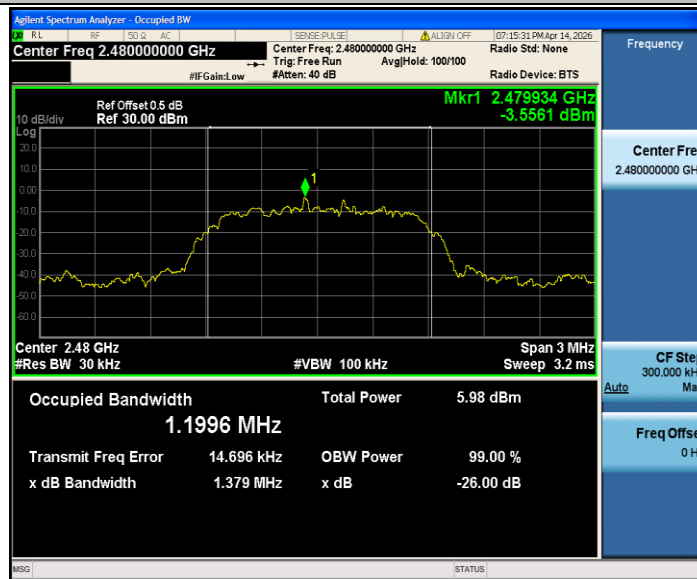
2DH5_Ant1_2402



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	-0.32	≤20.97	PASS
		2480	-0.58	≤20.97	PASS
2DH5	Ant1	2402	3.05	≤20.97	PASS
		2441	2.31	≤20.97	PASS
		2480	2.02	≤20.97	PASS
3DH5	Ant1	2402	3.51	≤20.97	PASS
		2441	2.73	≤20.97	PASS
		2480	2.45	≤20.97	PASS

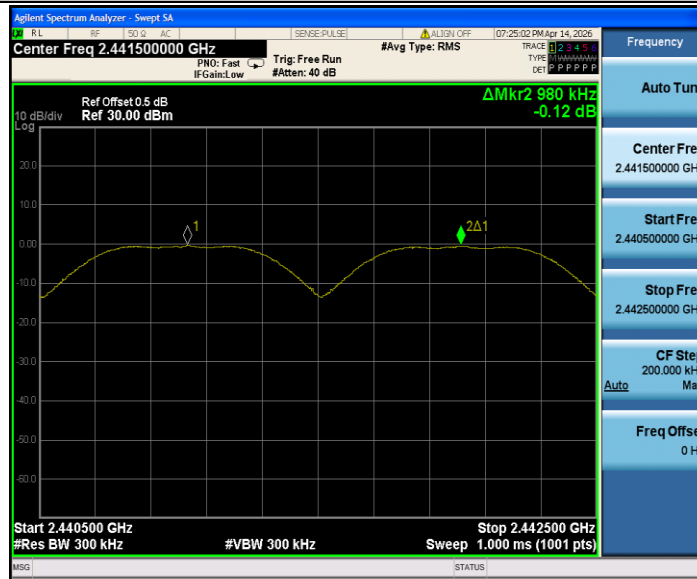
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.98	≥ 0.963	PASS
2DH5	Ant1	Hop	1.002	≥ 0.886	PASS
3DH5	Ant1	Hop	0.998	≥ 0.880	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

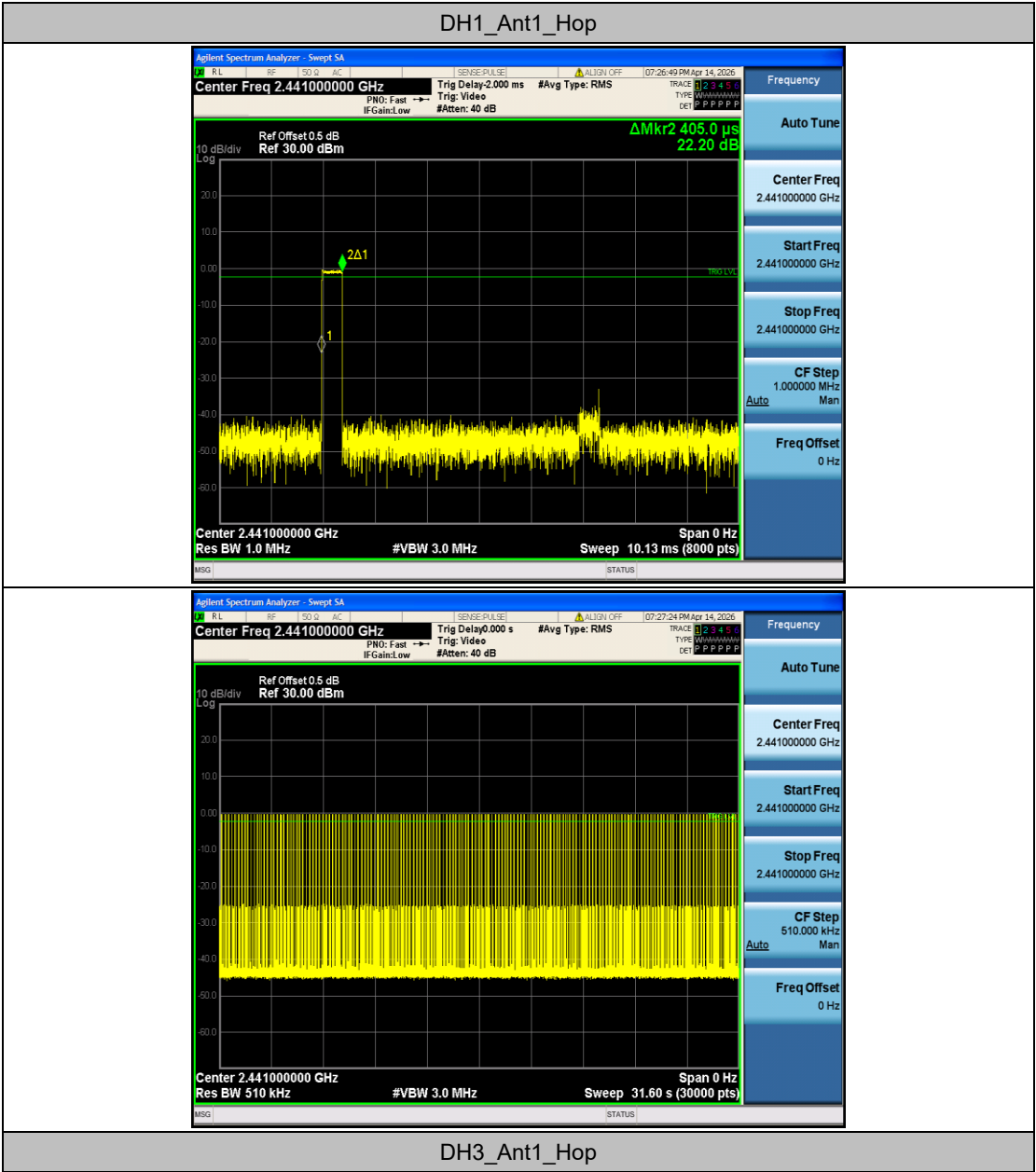


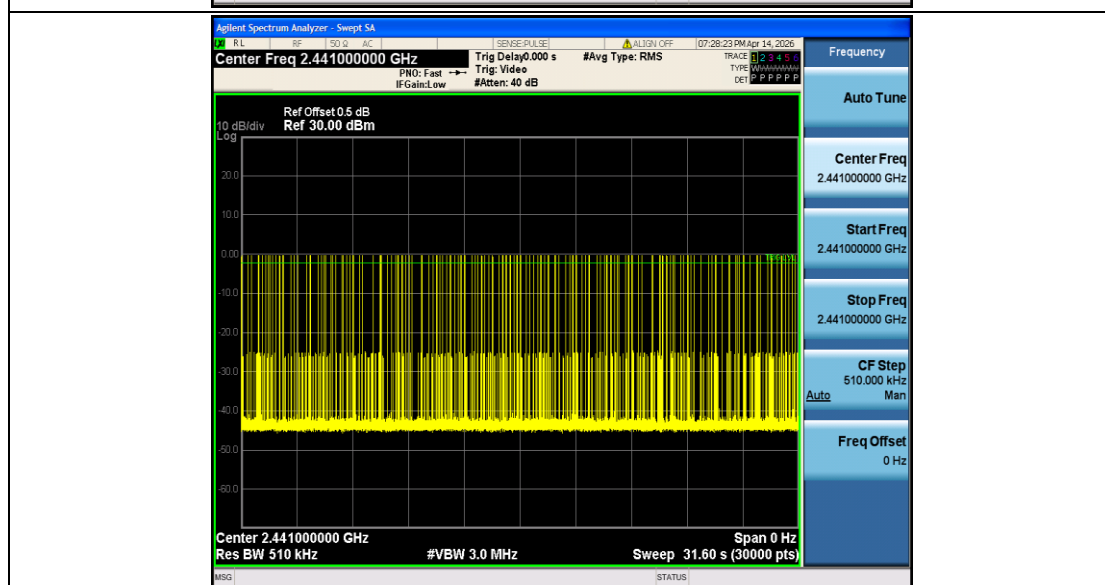
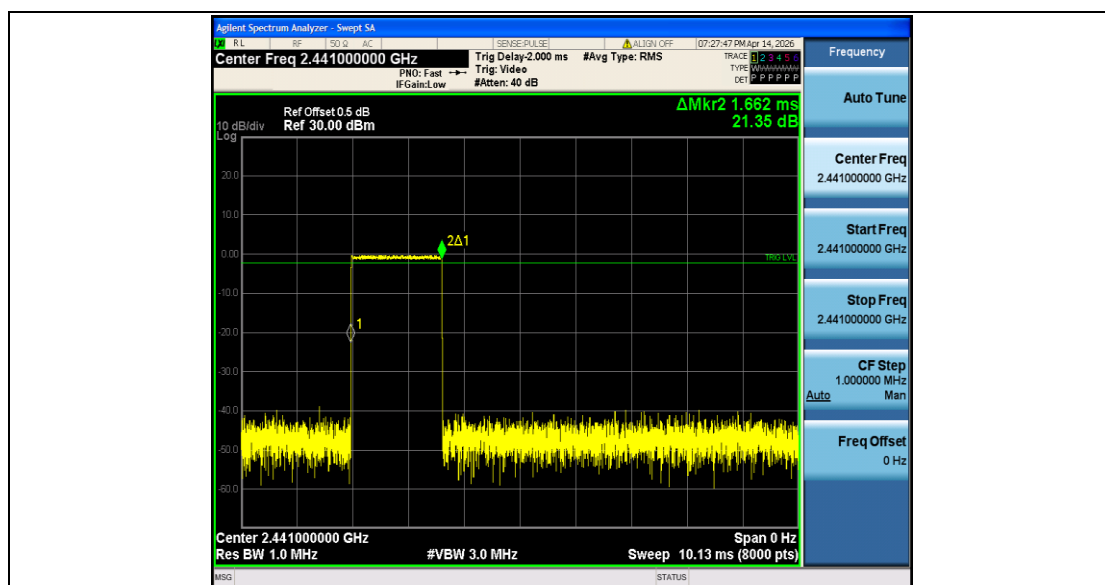
Appendix E: Time of occupancy

Test Result

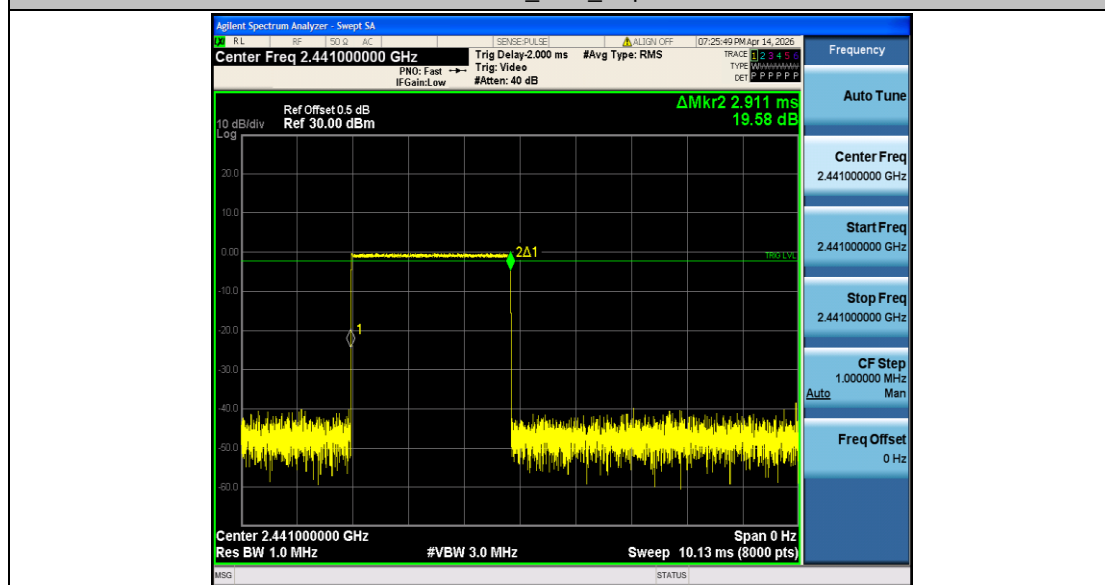
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	320	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	164	0.273	≤0.4	PASS
DH5	Ant1	Hop	2.911	117	0.341	≤0.4	PASS
2DH1	Ant1	Hop	0.414	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.667	156	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.915	99	0.289	≤0.4	PASS
3DH1	Ant1	Hop	0.414	319	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.664	155	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.917	109	0.318	≤0.4	PASS

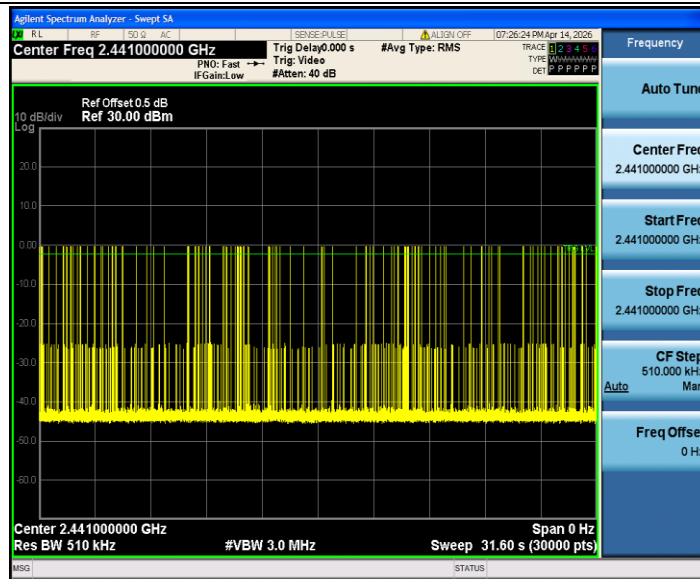
Test Graphs



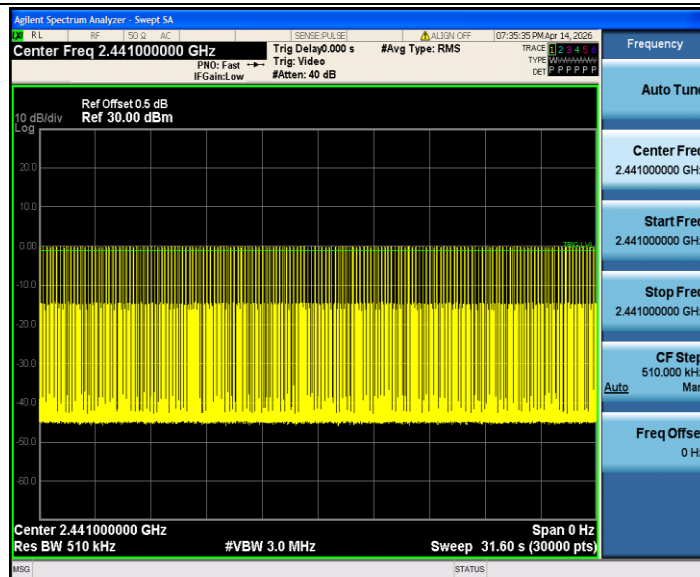
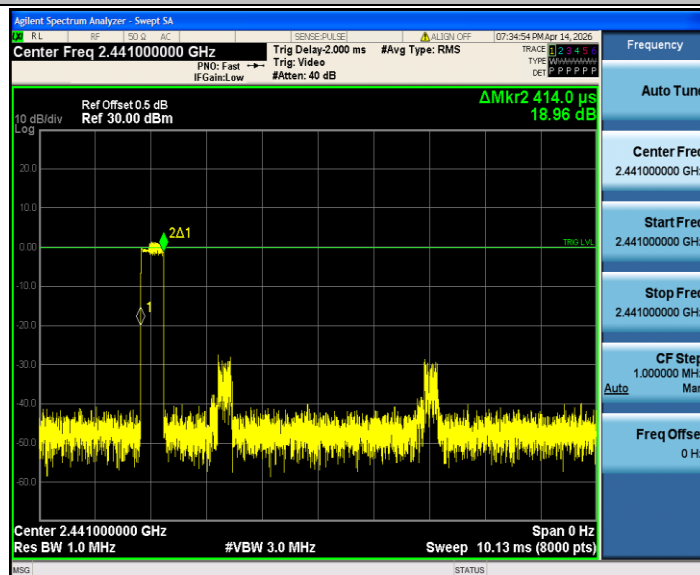


DH5_Ant1_Hop

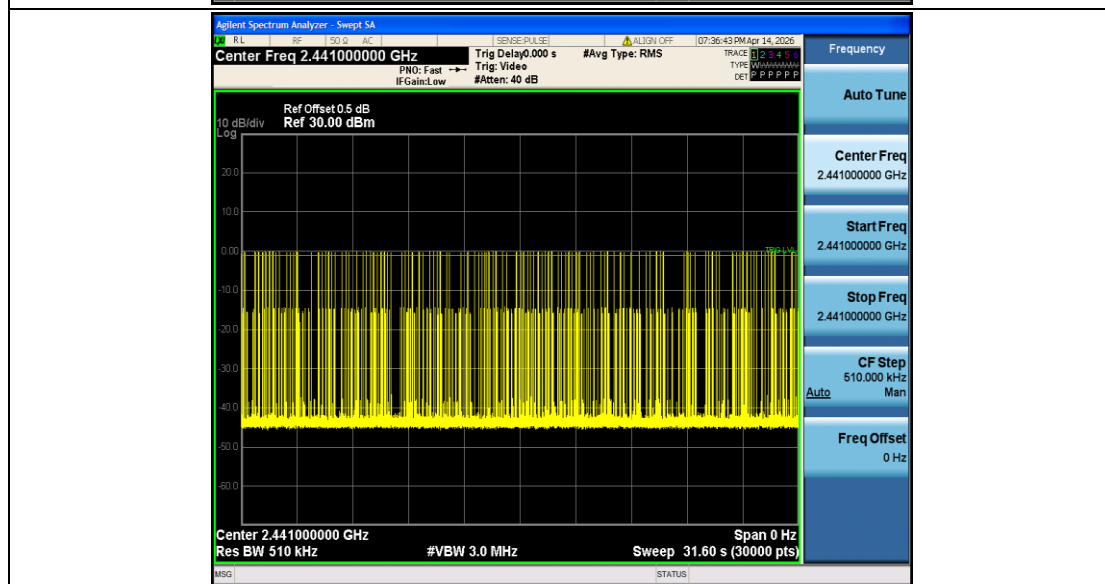
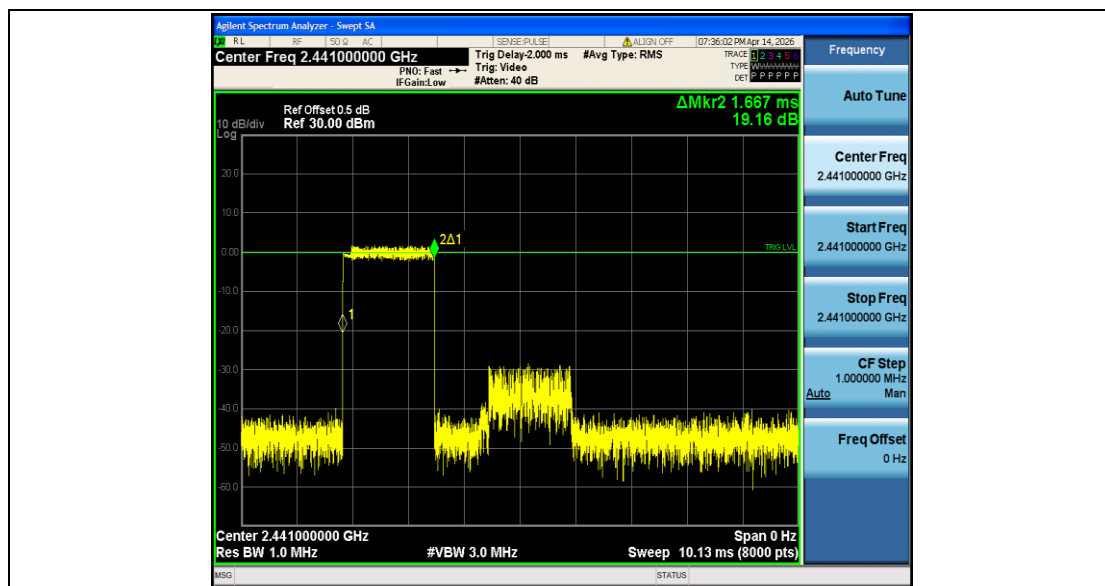




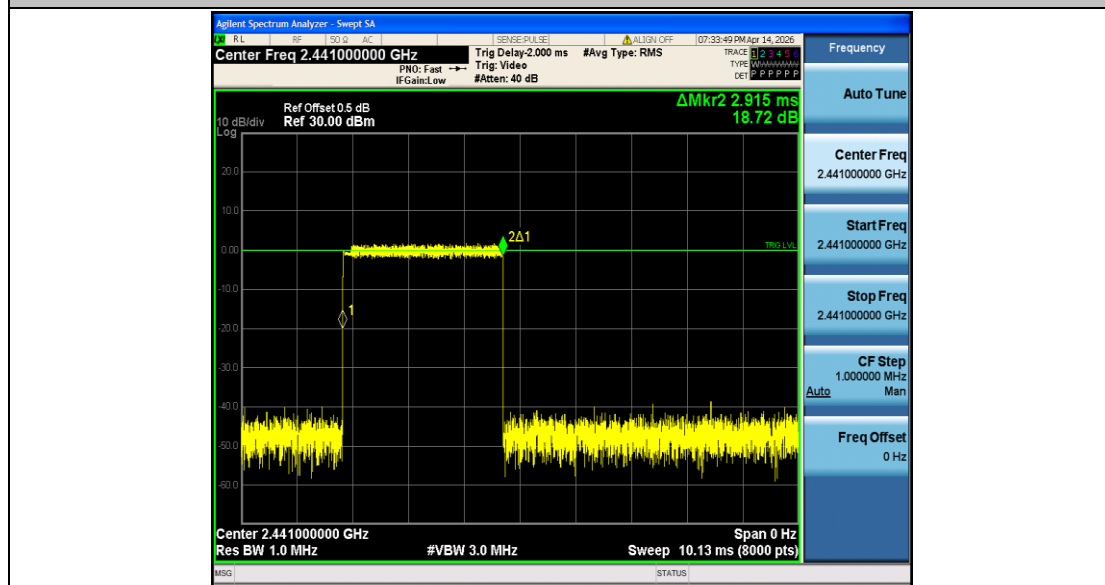
2DH1_Ant1_Hop

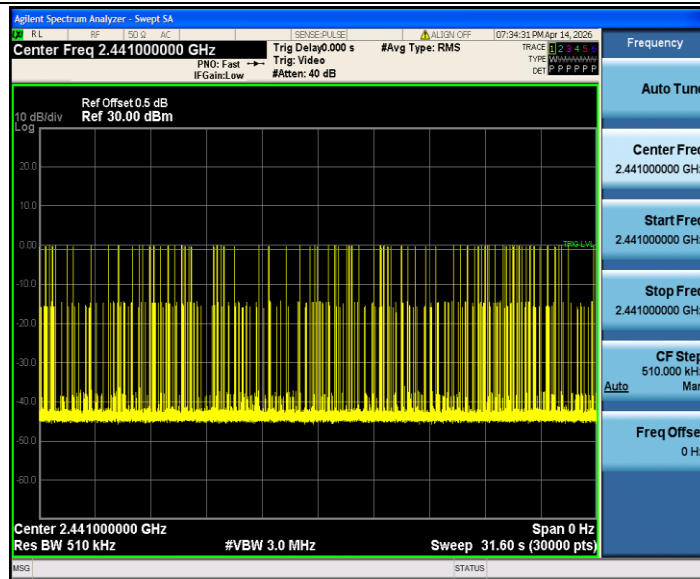


2DH3_Ant1_Hop

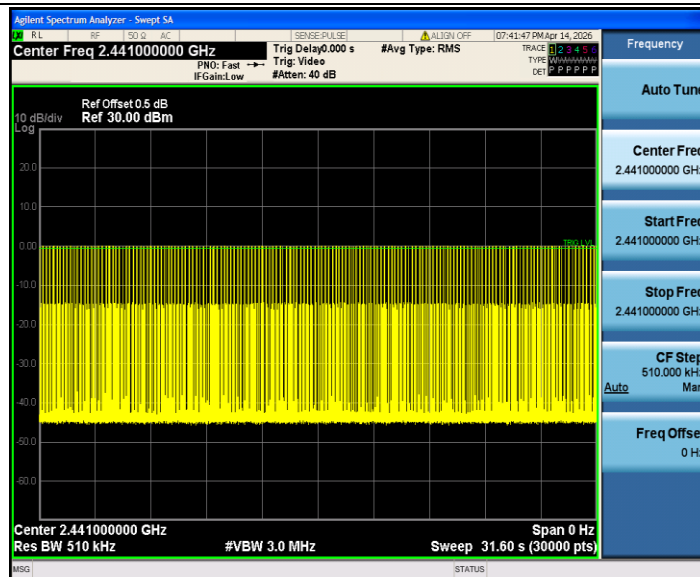
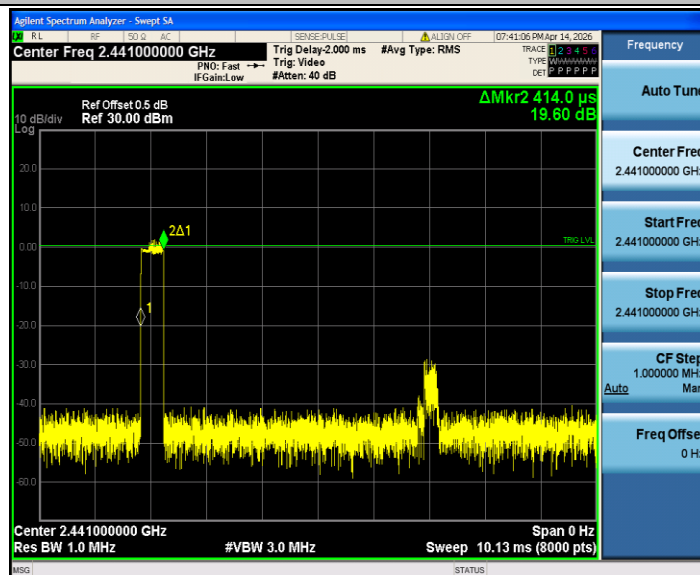


2DH5_Ant1_Hop

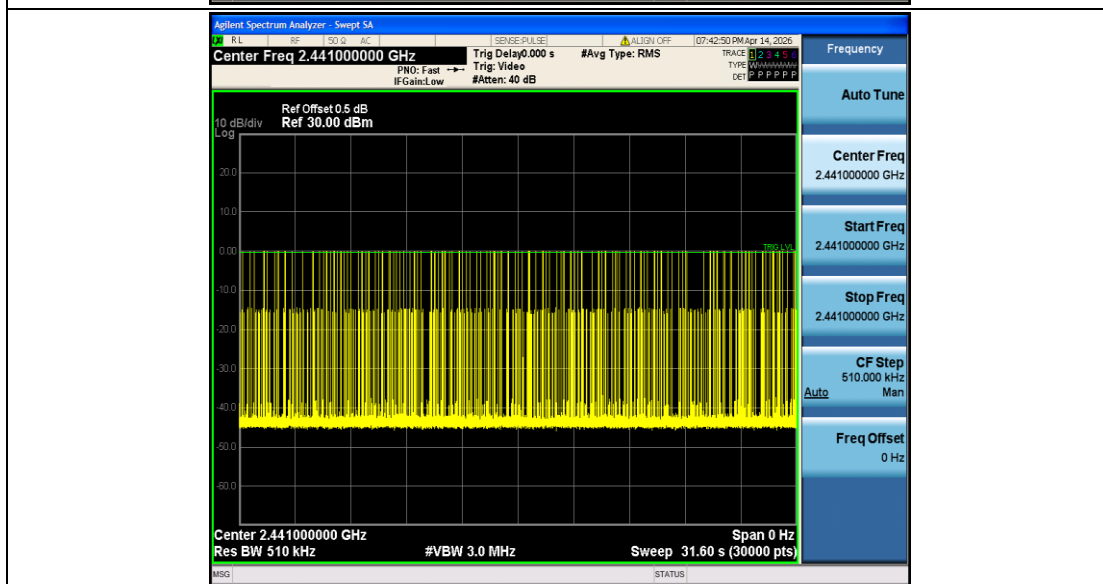
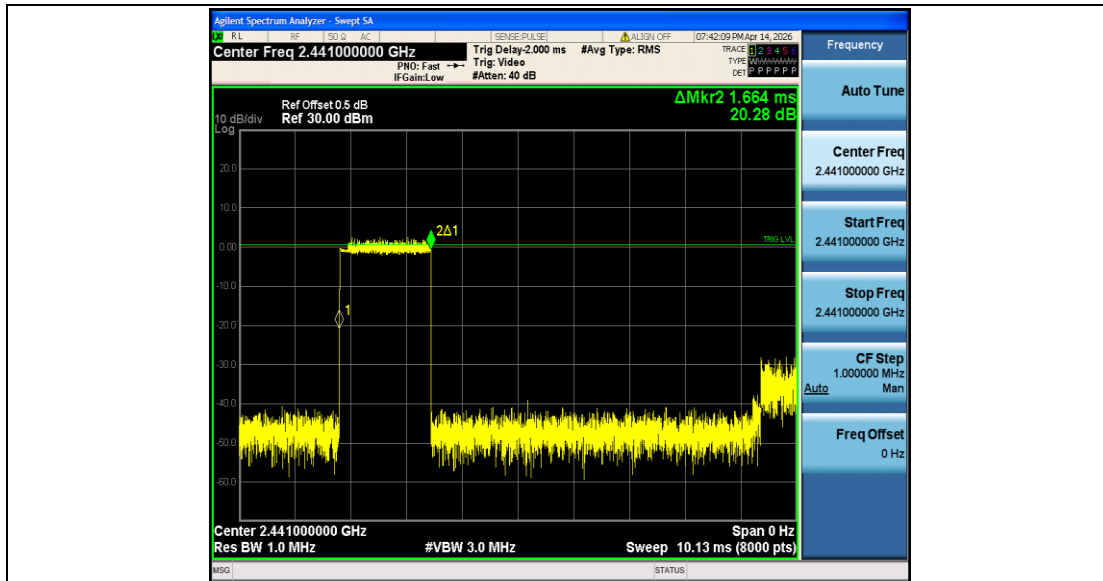




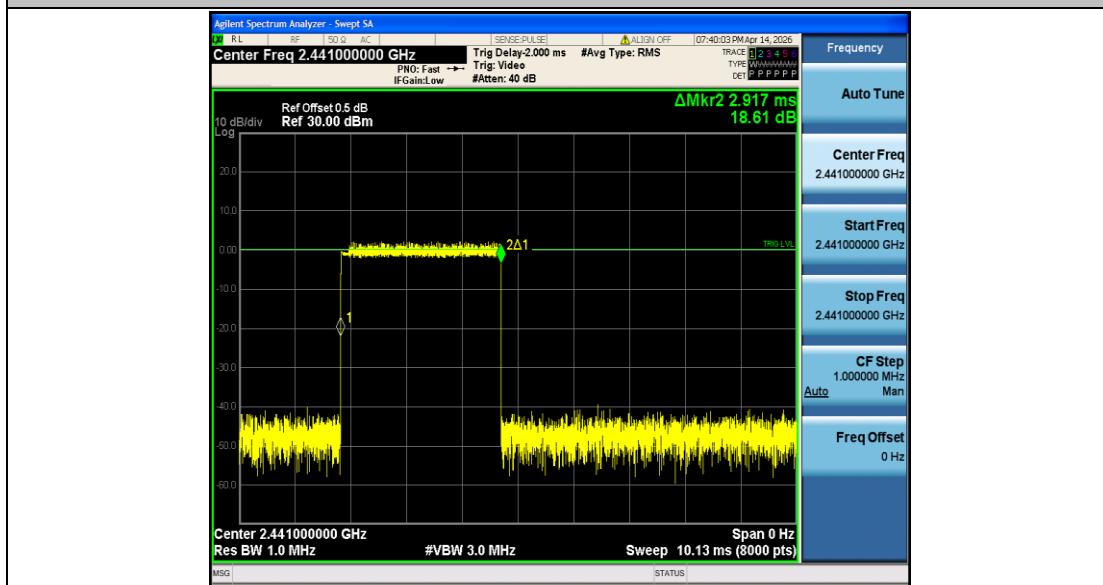
3DH1_Ant1_Hop

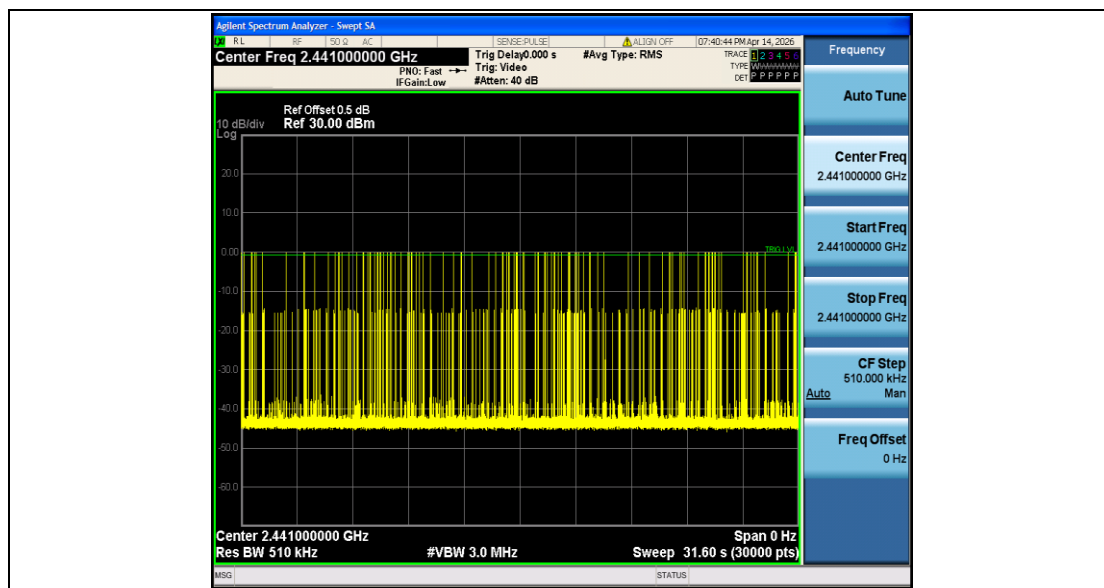


3DH3_Ant1_Hop



3DH5_Ant1_Hop



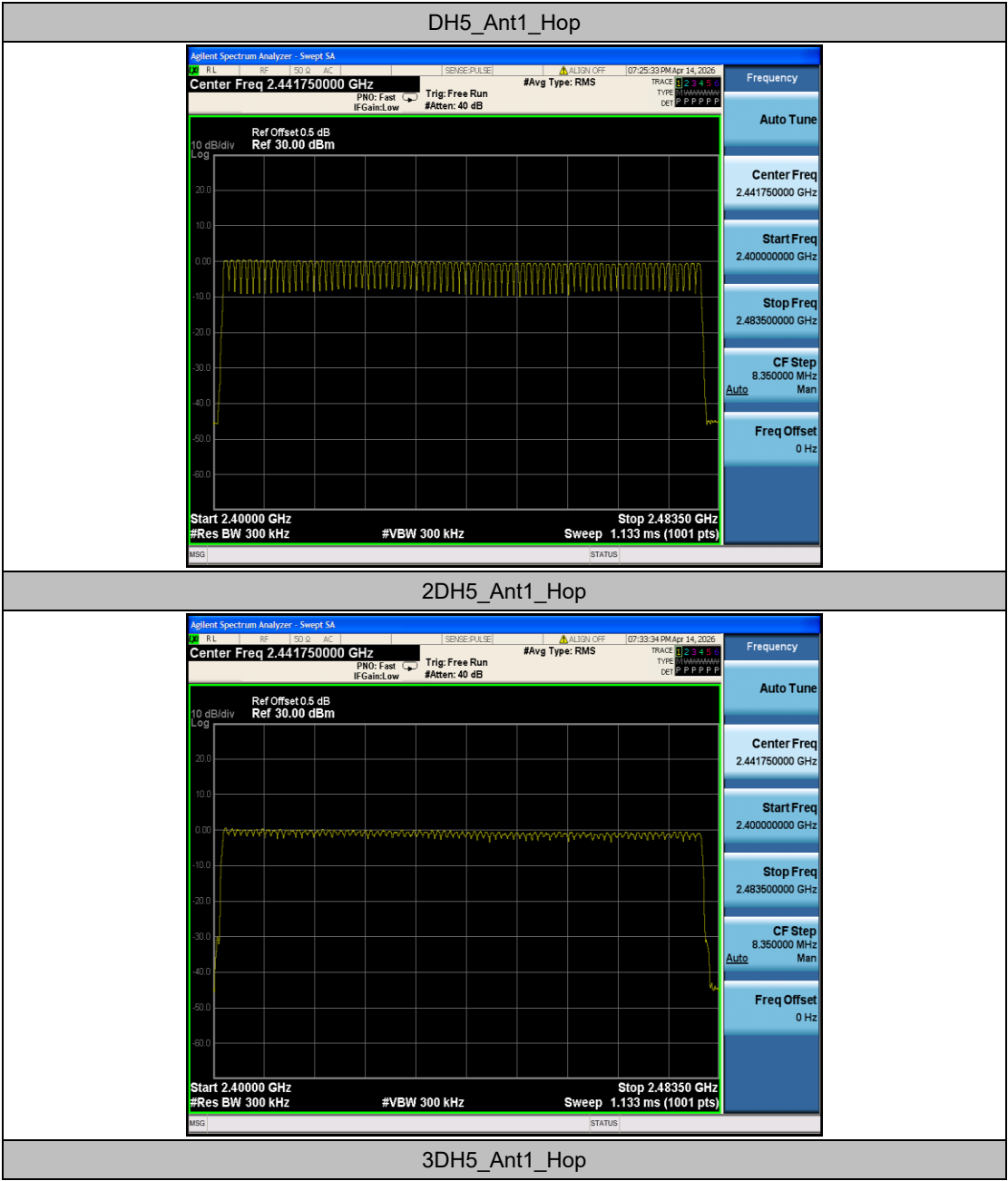


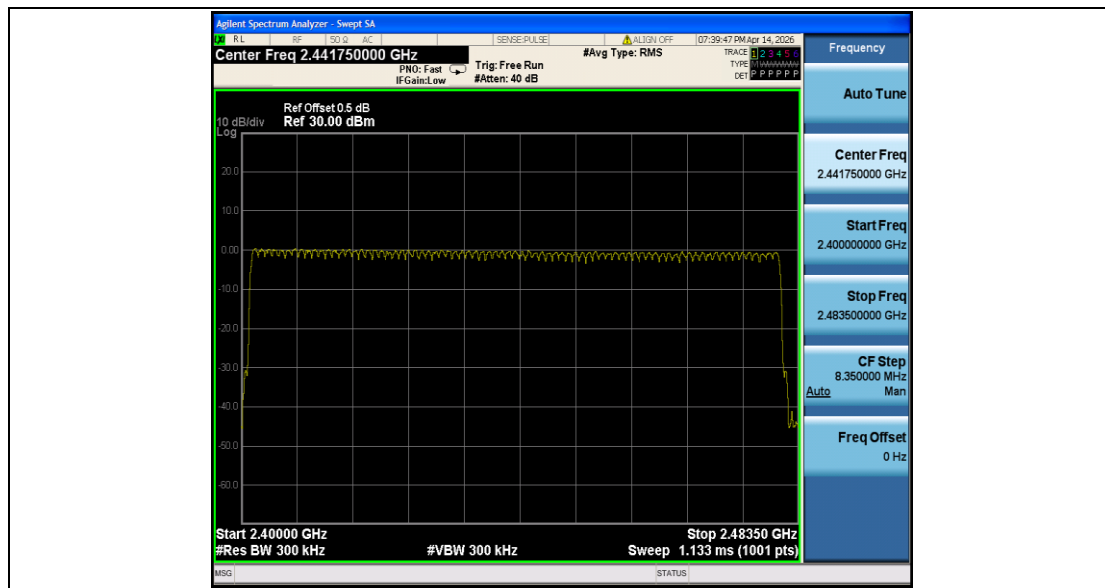
Appendix F: Number of hopping channels

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



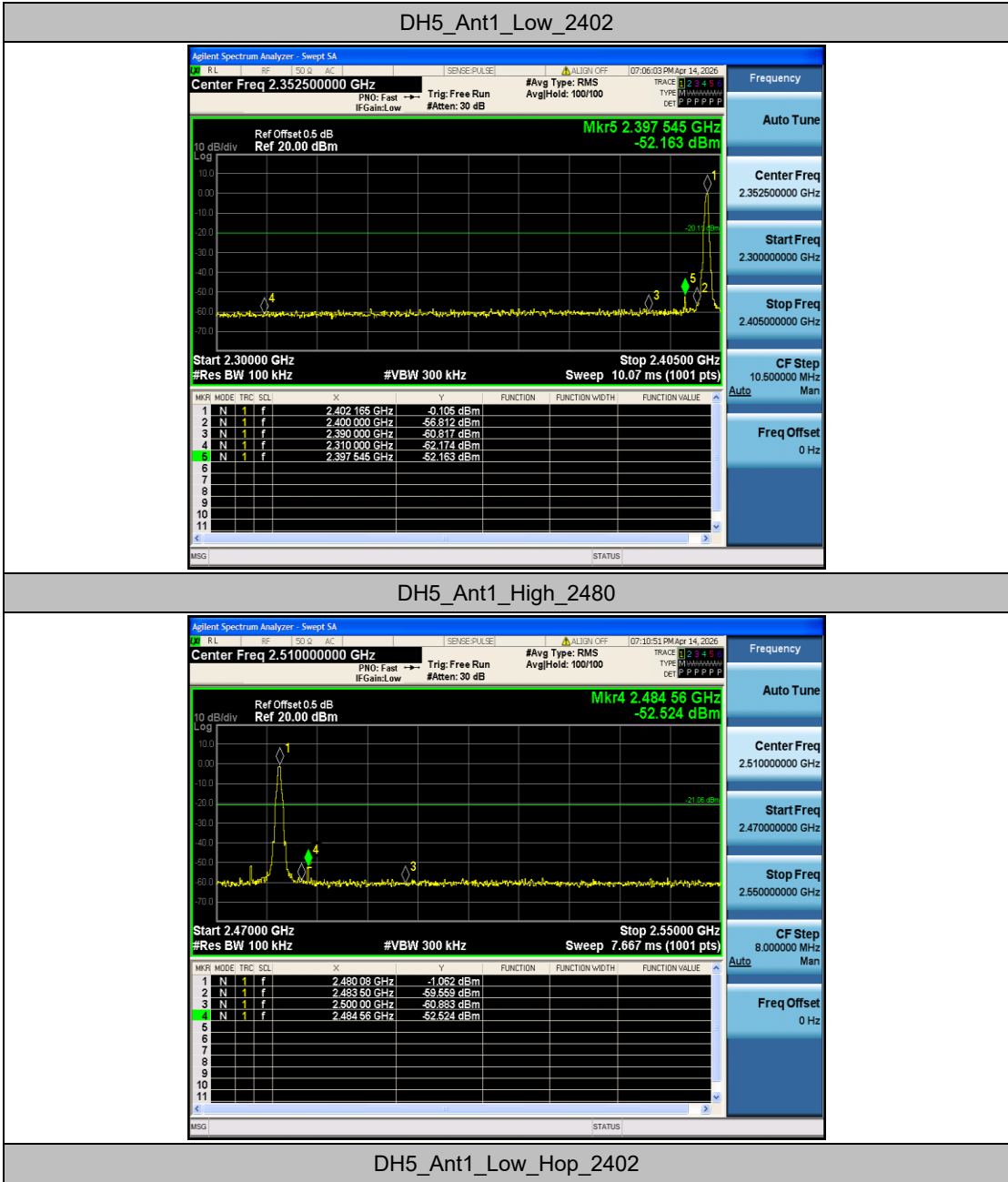


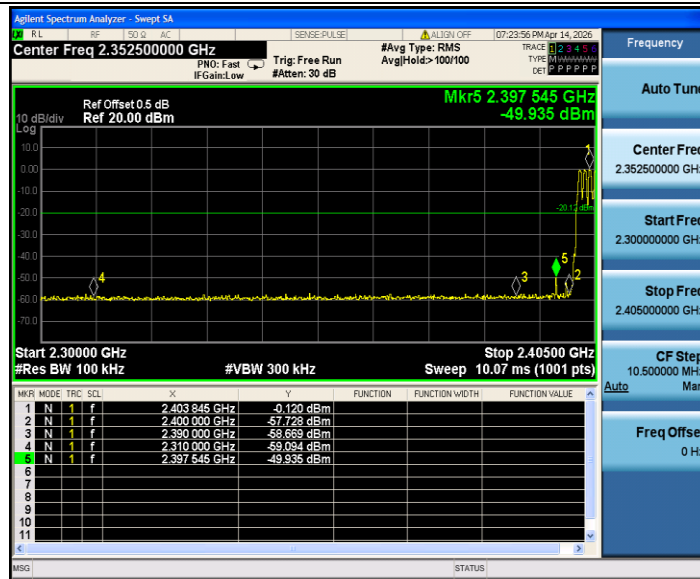
Appendix G: Band edge measurements

Test Result

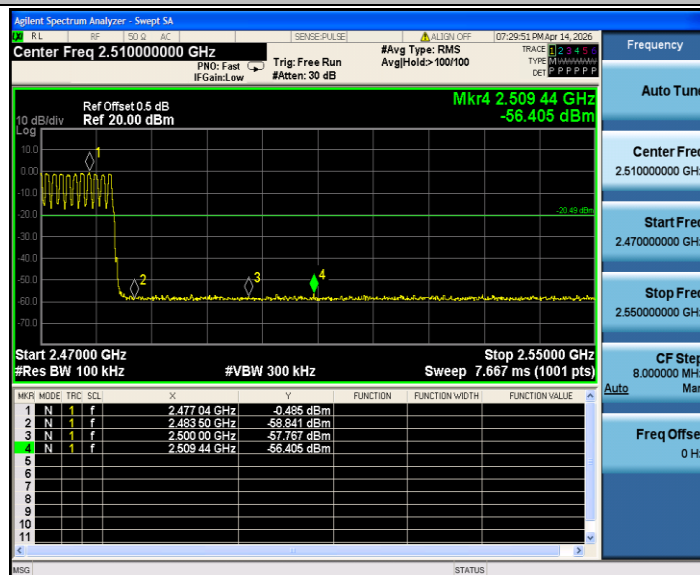
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.11	-52.16	≤-20.11	PASS
		High	2480	-1.06	-52.52	≤-21.06	PASS
		Low	Hop_2402	-0.12	-49.94	≤-20.12	PASS
		High	Hop_2480	-0.49	-56.41	≤-20.49	PASS
2DH5	Ant1	Low	2402	-0.28	-50.62	≤-20.28	PASS
		High	2480	-1.29	-54.37	≤-21.29	PASS
		Low	Hop_2402	-1.01	-49.84	≤-21.01	PASS
		High	Hop_2480	-0.62	-56.96	≤-20.62	PASS
3DH5	Ant1	Low	2402	-0.36	-49.36	≤-20.36	PASS
		High	2480	-0.99	-56.99	≤-20.99	PASS
		Low	Hop_2402	-0.02	-51.97	≤-20.02	PASS
		High	Hop_2480	-0.87	-56.75	≤-20.87	PASS

Test Graphs

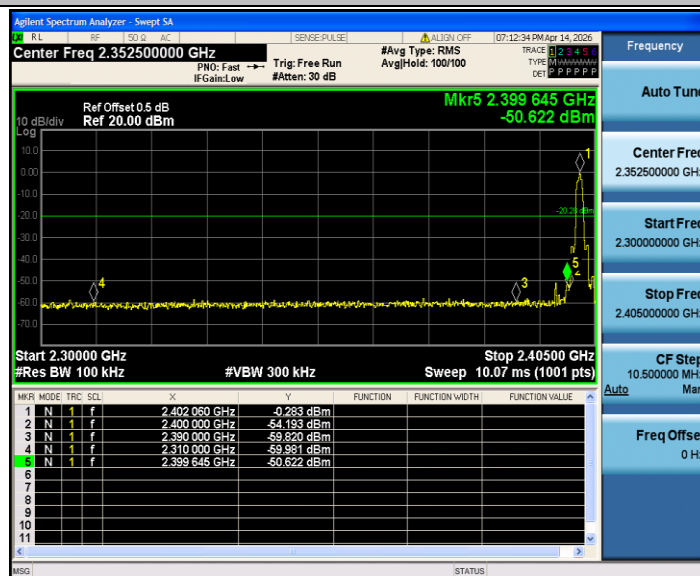




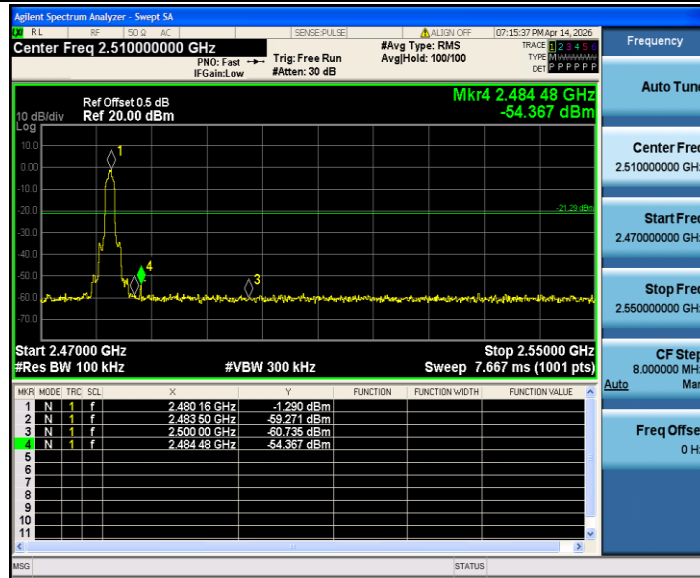
DH5_Ant1_High_Hop_2480



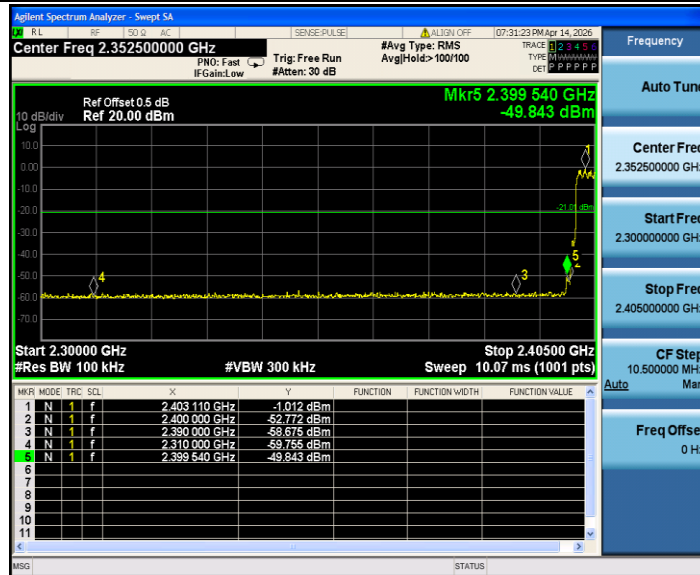
2DH5_Ant1_Low_2402



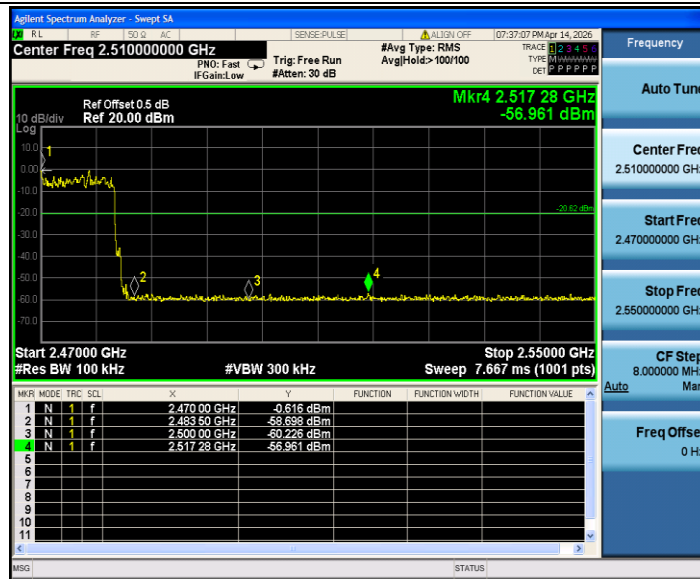
2DH5_Ant1_High_2480



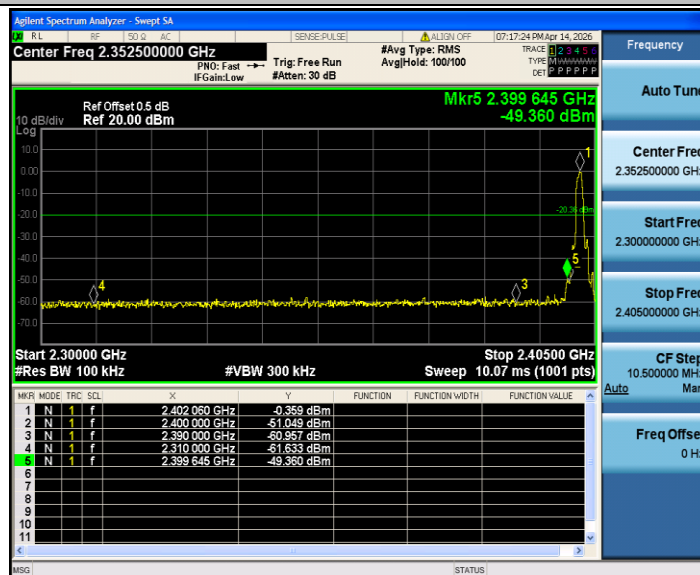
2DH5_Ant1_Low_Hop_2402



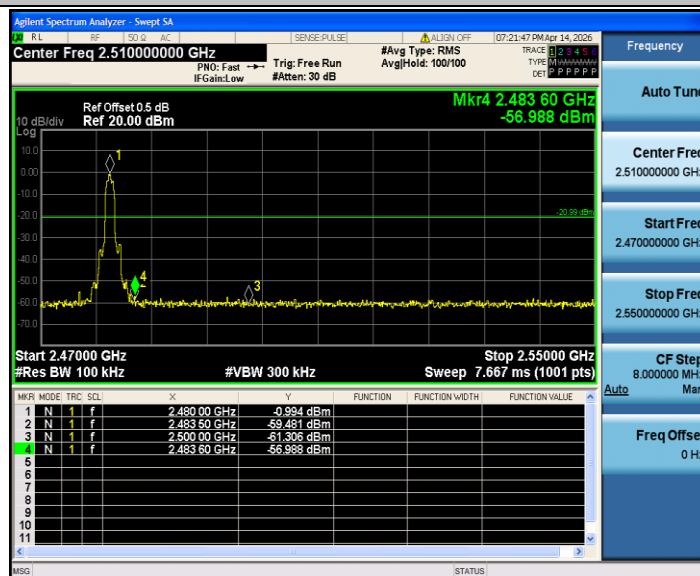
2DH5_Ant1_High_Hop_2480



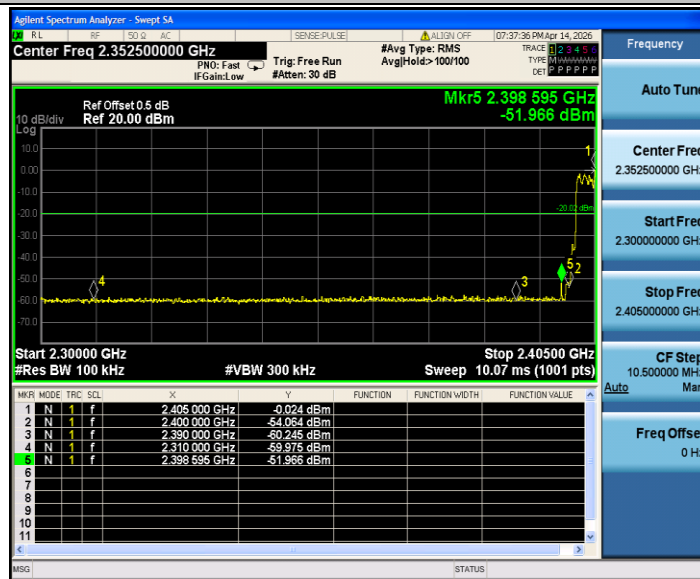
3DH5_Ant1_Low_2402



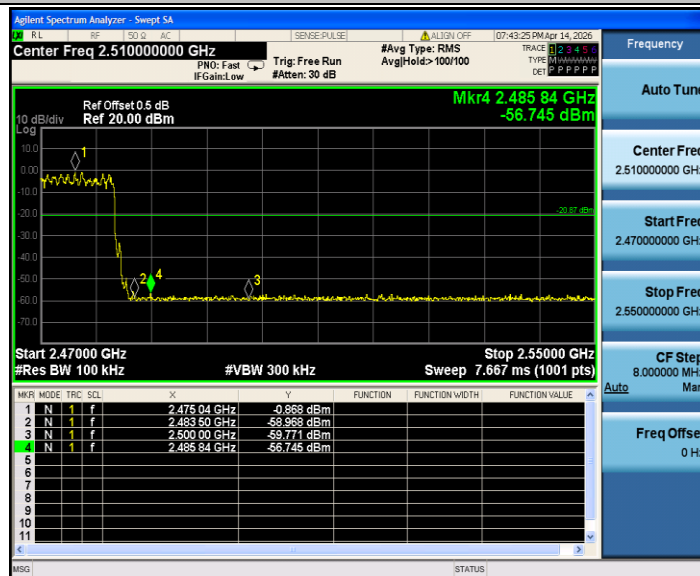
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

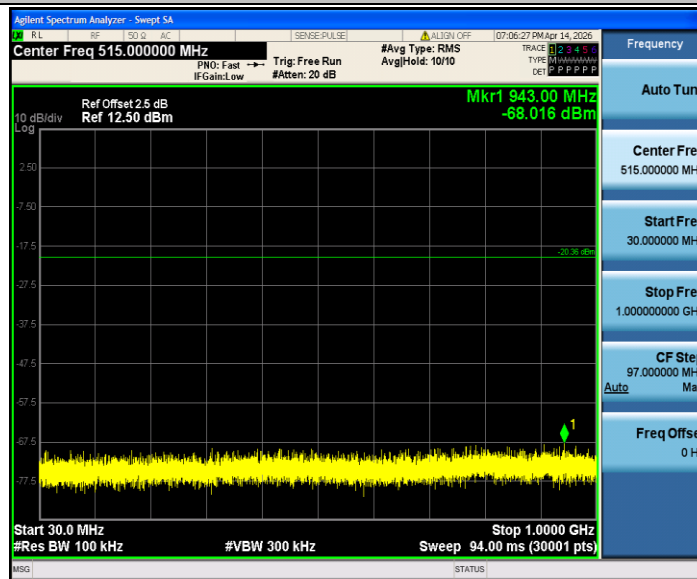
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-68.02	≤-20.36	PASS
			1000~26500	-0.36	-42.54	≤-20.36	PASS
		2441	Reference	-1.49	-1.49	---	PASS
			30~1000	-1.49	-67.85	≤-21.49	PASS
			1000~26500	-1.49	-42	≤-21.49	PASS
		2480	Reference	-1.60	-1.60	---	PASS
			30~1000	-1.60	-67.49	≤-21.6	PASS
			1000~26500	-1.60	-43.58	≤-21.6	PASS
2DH5	Ant1	2402	Reference	-3.05	-3.05	---	PASS
			30~1000	-3.05	-67.23	≤-23.05	PASS
			1000~26500	-3.05	-41.95	≤-23.05	PASS
		2441	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-68.15	≤-21.06	PASS
			1000~26500	-1.06	-45.6	≤-21.06	PASS
		2480	Reference	-1.98	-1.98	---	PASS
			30~1000	-1.98	-68.21	≤-21.98	PASS
			1000~26500	-1.98	-45.46	≤-21.98	PASS
3DH5	Ant1	2402	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-68.24	≤-21.06	PASS
			1000~26500	-1.06	-43.89	≤-21.06	PASS
		2441	Reference	-1.79	-1.79	---	PASS
			30~1000	-1.79	-66.67	≤-21.79	PASS
			1000~26500	-1.79	-45.76	≤-21.79	PASS
		2480	Reference	-1.76	-1.76	---	PASS
			30~1000	-1.76	-68.22	≤-21.76	PASS
			1000~26500	-1.76	-46.08	≤-21.76	PASS

Test Graphs

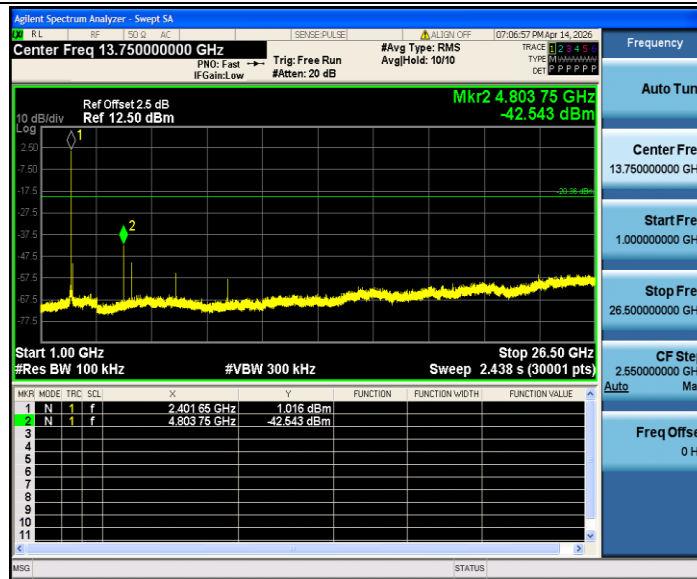
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



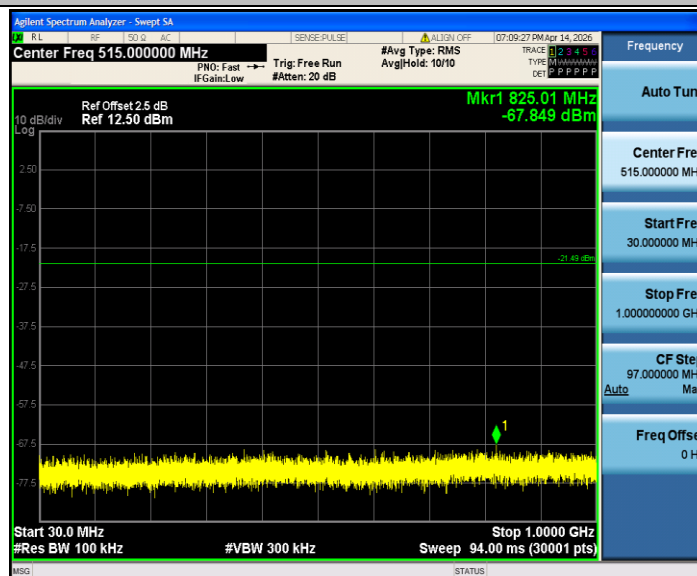
DH5_Ant1_2402_1000~26500



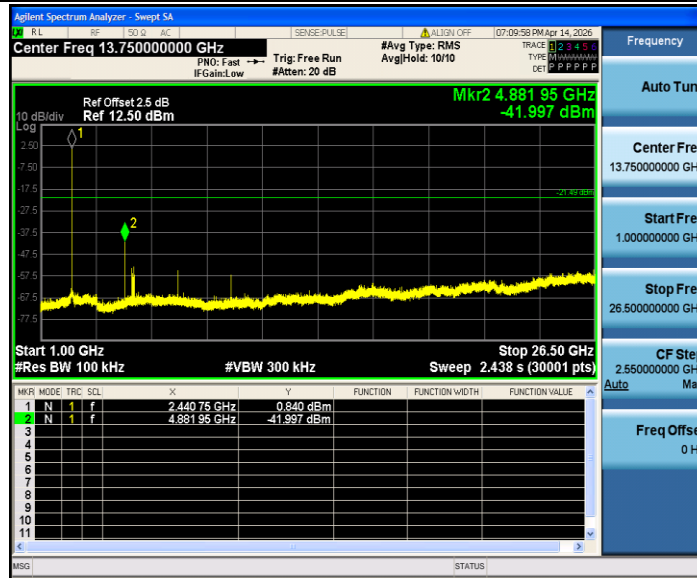
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



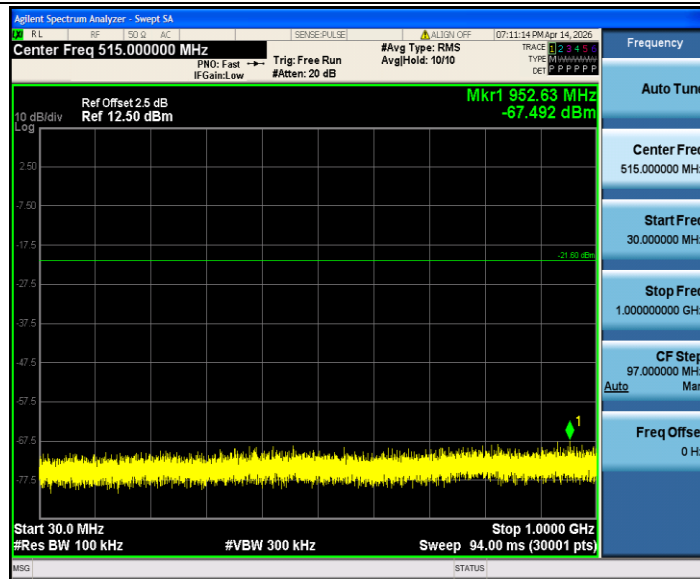
DH5_Ant1_2441_1000~26500



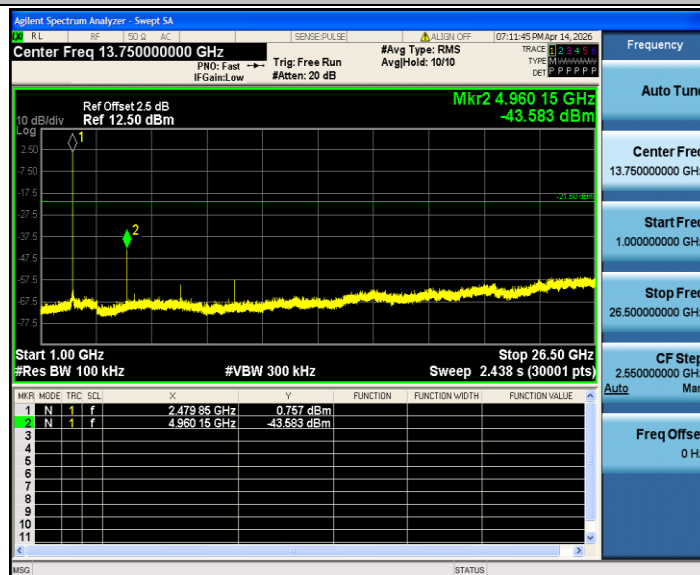
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



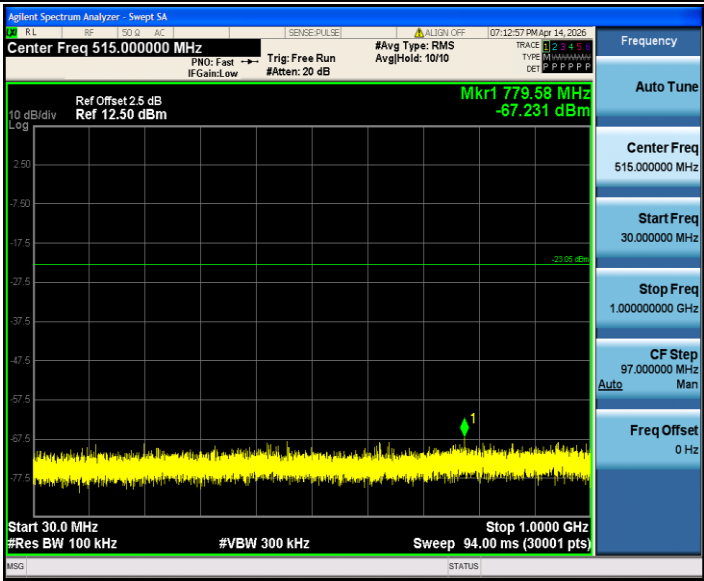
DH5_Ant1_2480_1000~26500



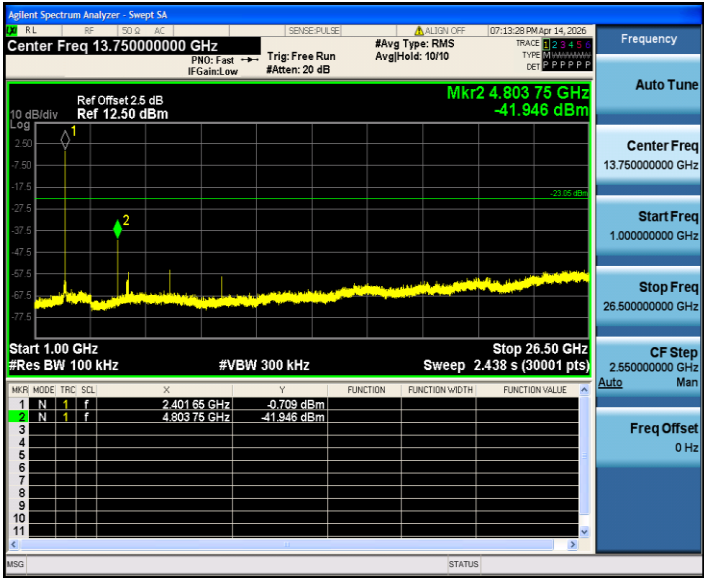
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference