

FCC Appendix RF Test Data for BT

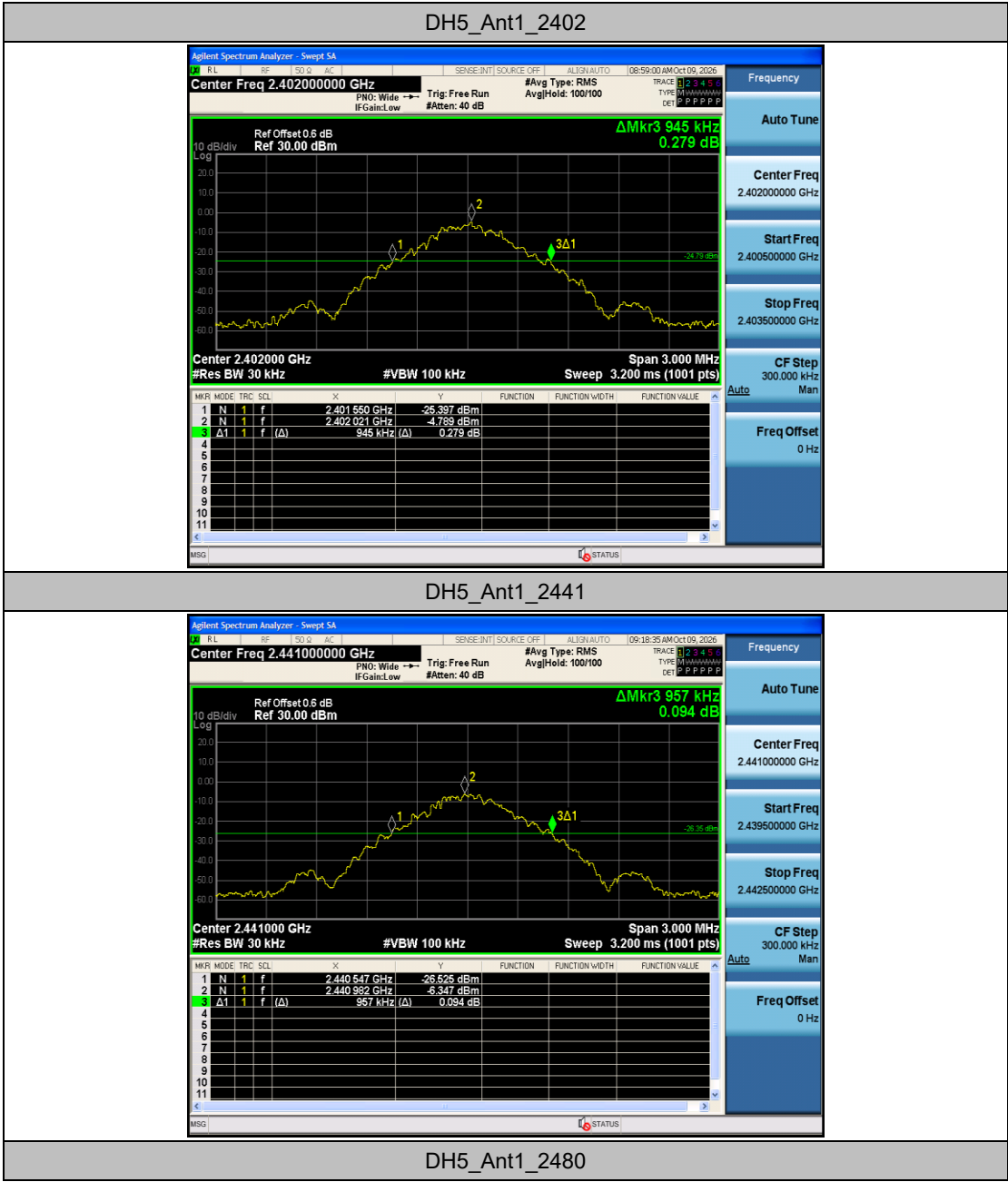
FCC ID : 2BUMN-DY213
Company : DAZONE LLC
EUT : SPEAKER
Model Number : DY213
Report No. : CTA26092100401
Reviewed By : Eric Wang

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	2401.550	2402.495	---	---
		2441	0.957	2440.547	2441.504	---	---
		2480	0.954	2479.547	2480.501	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.338	2440.340	2441.678	---	---
		2480	1.287	2479.379	2480.666	---	---
3DH5	Ant1	2402	1.296	2401.364	2402.660	---	---
		2441	1.326	2440.352	2441.678	---	---
		2480	1.314	2479.358	2480.672	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

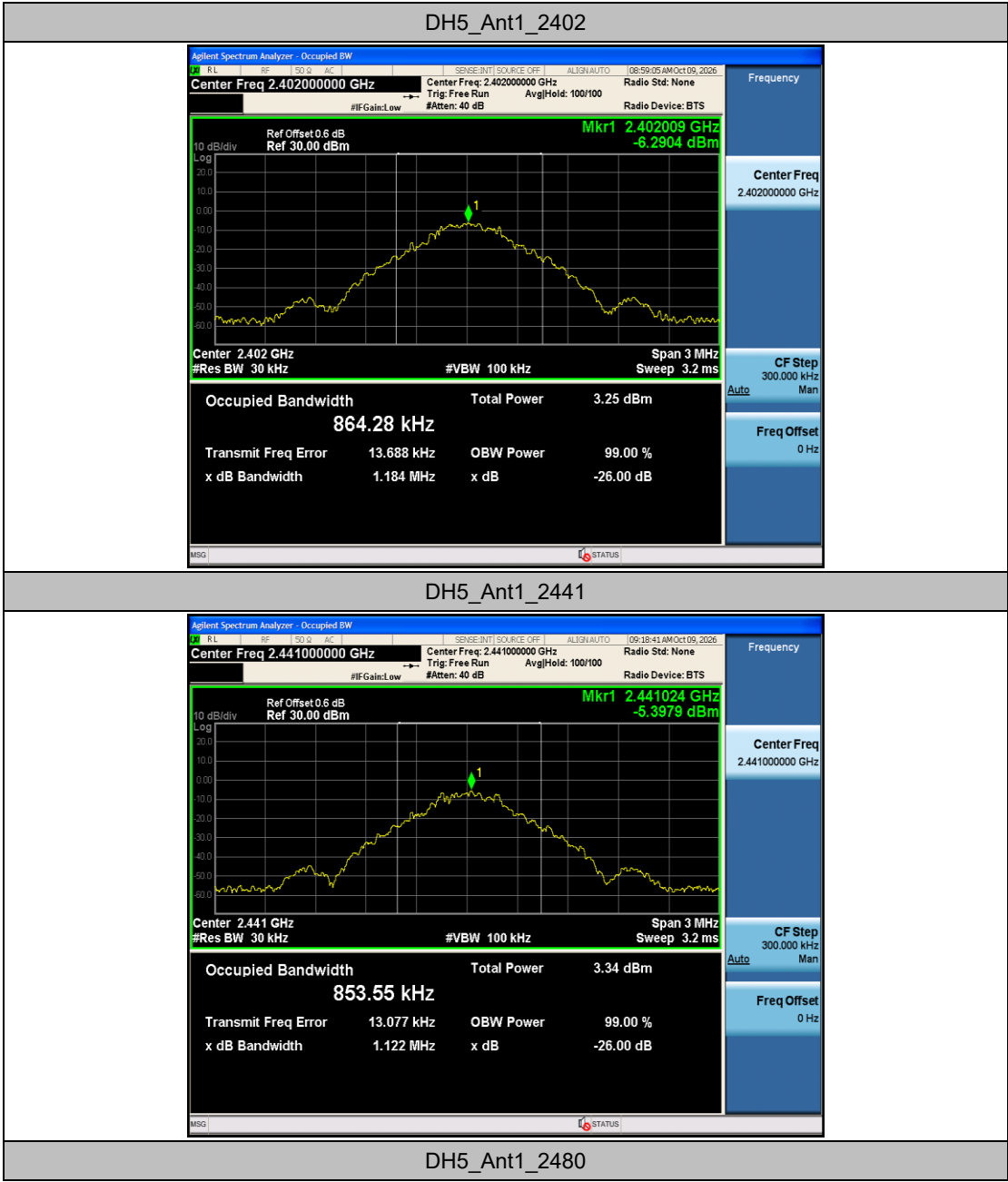


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86428	2401.5816	2402.4458	---	---
		2441	0.85355	2440.5863	2441.4399	---	---
		2480	0.86244	2479.5777	2480.4402	---	---
2DH5	Ant1	2402	1.1878	2401.4185	2402.6063	---	---
		2441	1.1855	2440.4168	2441.6023	---	---
		2480	1.1996	2479.4120	2480.6116	---	---
3DH5	Ant1	2402	1.1823	2401.4212	2402.6035	---	---
		2441	1.2005	2440.4113	2441.6118	---	---
		2480	1.1831	2479.4192	2480.6023	---	---

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	-3.17	≤20.97	PASS
		2441	-3.26	≤20.97	PASS
		2480	-3.51	≤20.97	PASS
2DH5	Ant1	2402	-0.52	≤20.97	PASS
		2441	-0.67	≤20.97	PASS
		2480	-0.96	≤20.97	PASS
3DH5	Ant1	2402	-0.14	≤20.97	PASS
		2441	-0.33	≤20.97	PASS
		2480	-0.55	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.01	≥ 0.957	PASS
2DH5	Ant1	Hop	1.01	≥ 0.892	PASS
3DH5	Ant1	Hop	0.954	≥ 0.884	PASS

Test Graphs



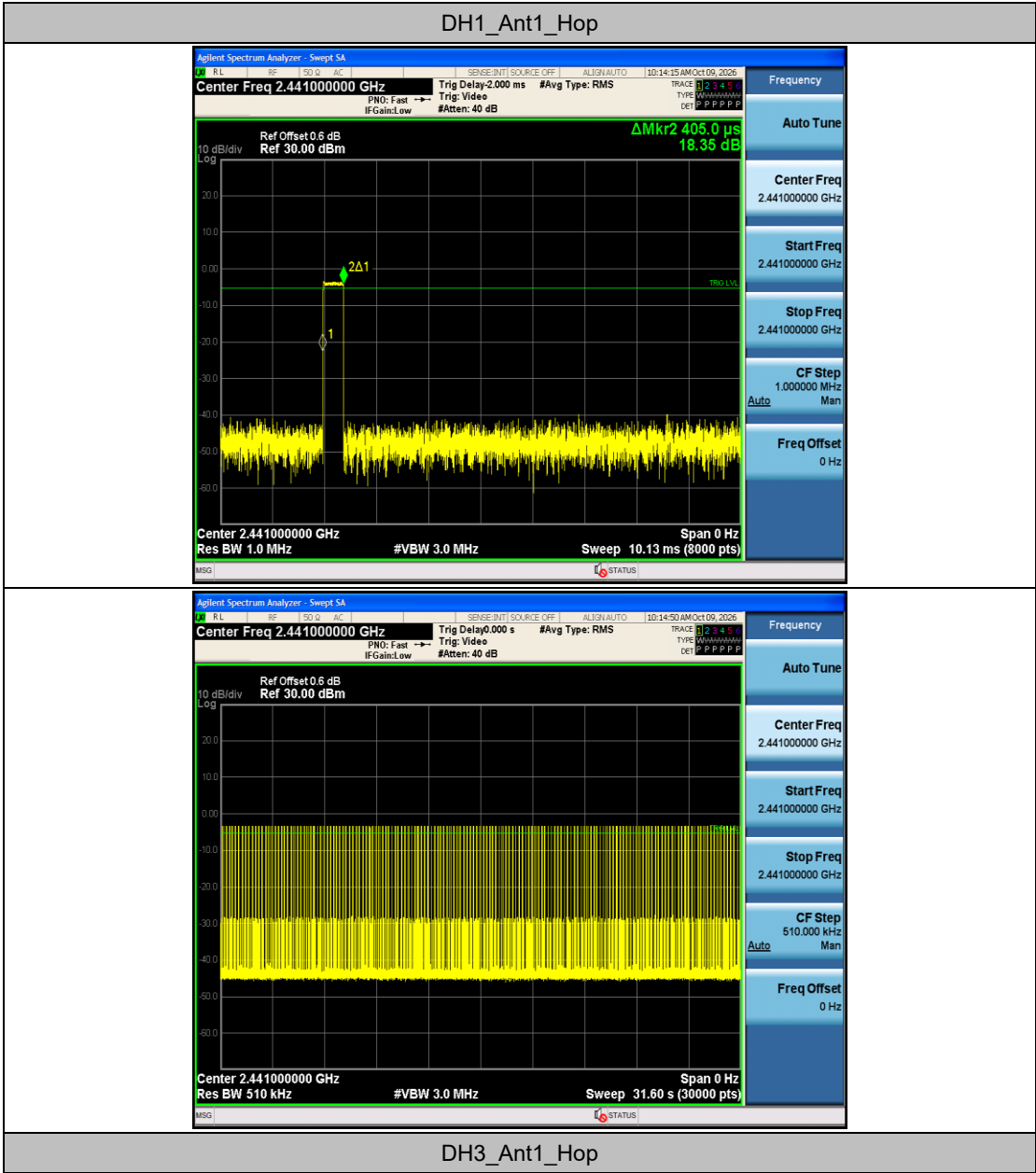


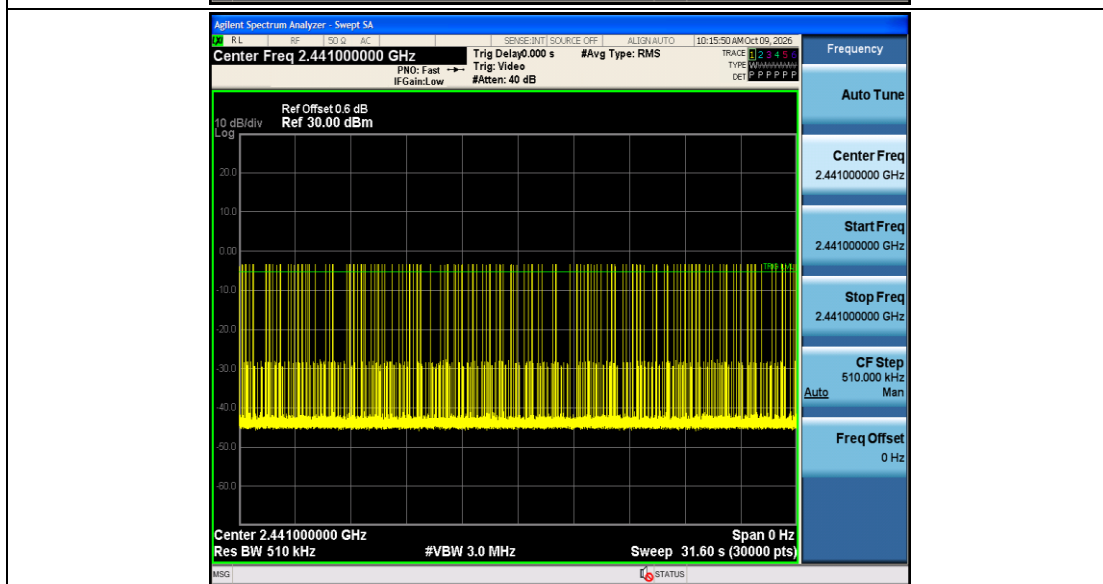
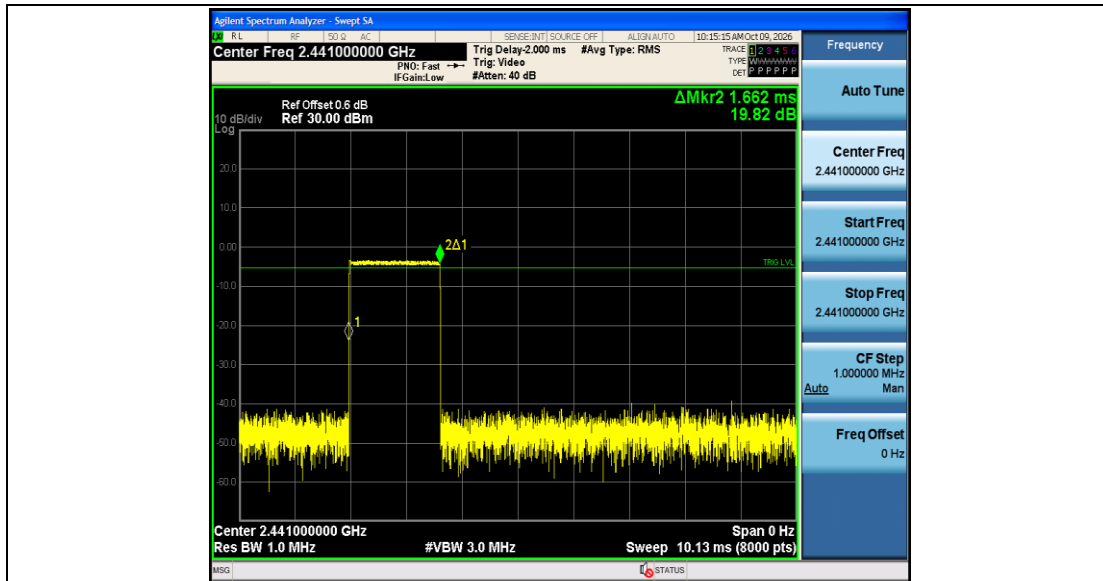
Appendix E: Time of occupancy

Test Result

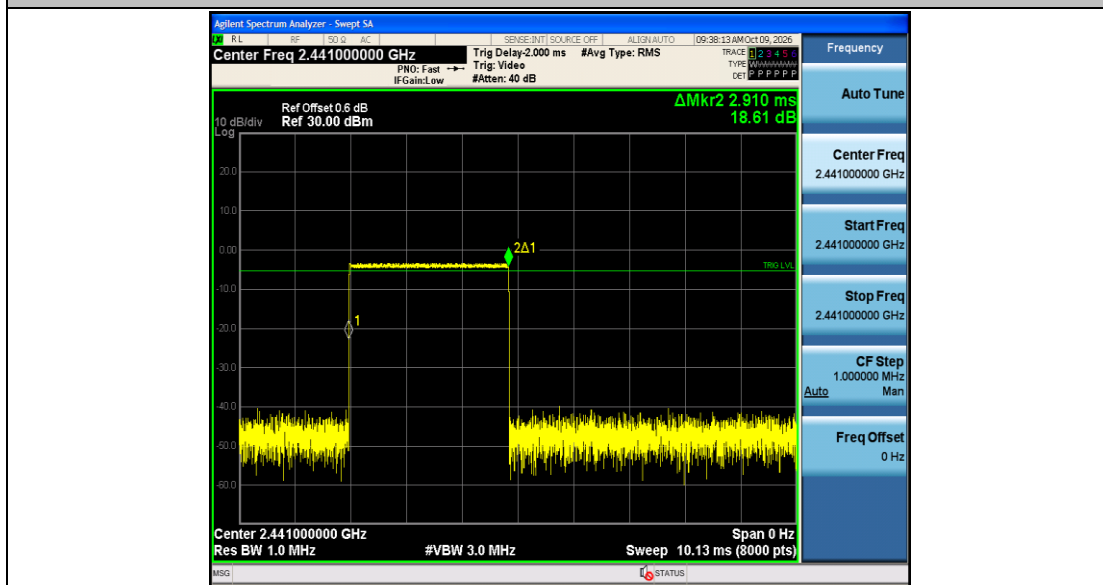
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	314	0.127	≤0.4	PASS
DH3	Ant1	Hop	1.662	156	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.910	108	0.314	≤0.4	PASS
2DH1	Ant1	Hop	0.414	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	167	0.279	≤0.4	PASS
2DH5	Ant1	Hop	2.916	111	0.324	≤0.4	PASS
3DH1	Ant1	Hop	0.415	314	0.13	≤0.4	PASS
3DH3	Ant1	Hop	1.666	151	0.252	≤0.4	PASS
3DH5	Ant1	Hop	2.917	95	0.277	≤0.4	PASS

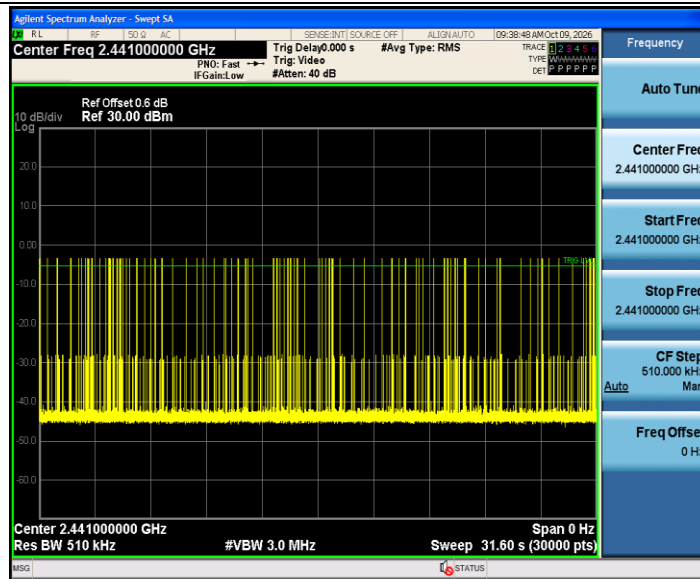
Test Graphs



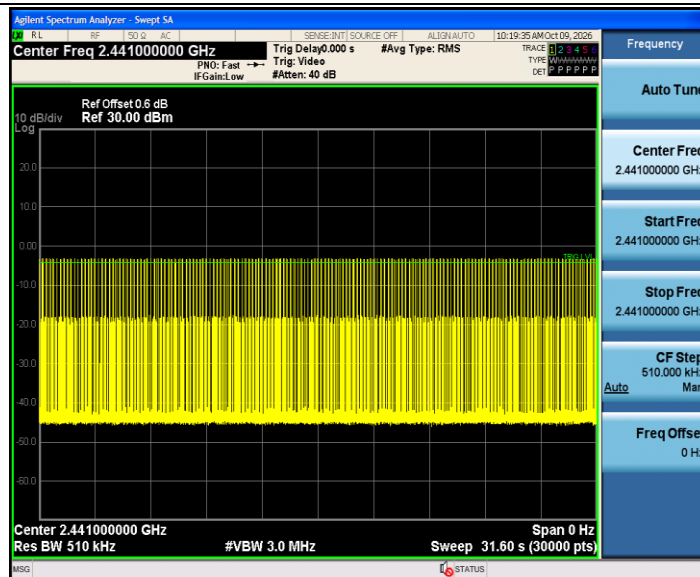
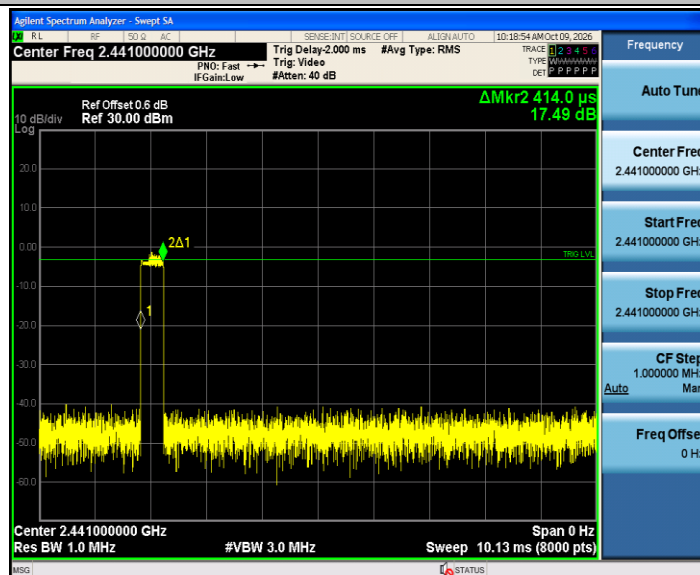


DH5_Ant1_Hop

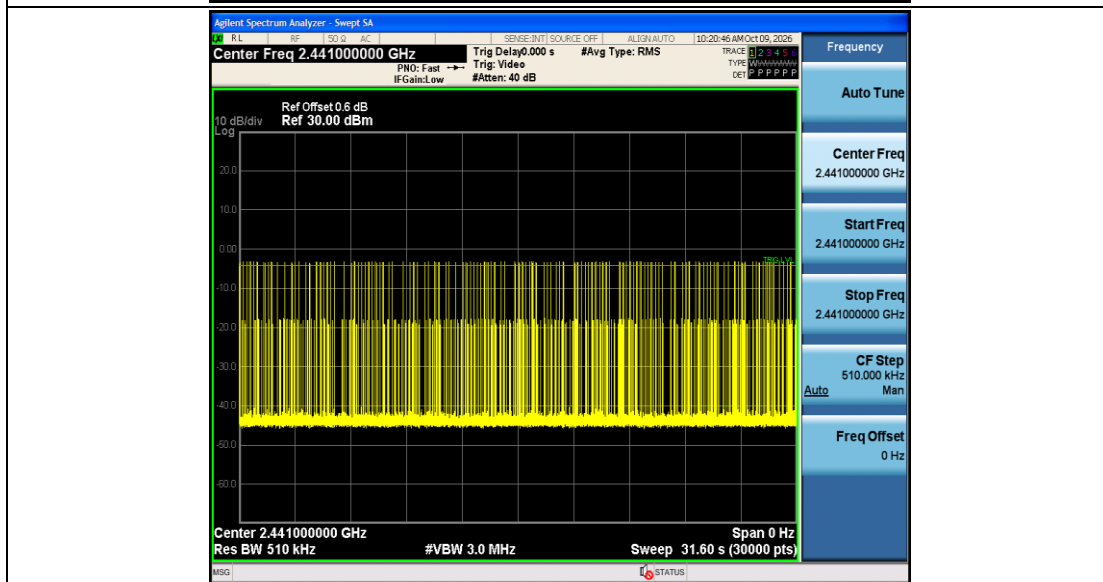
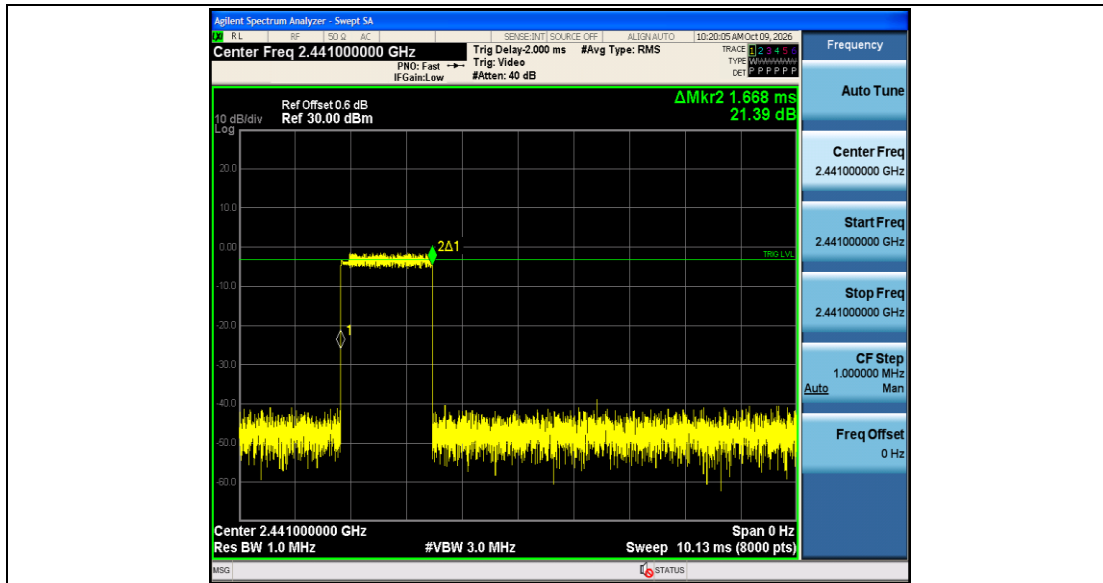




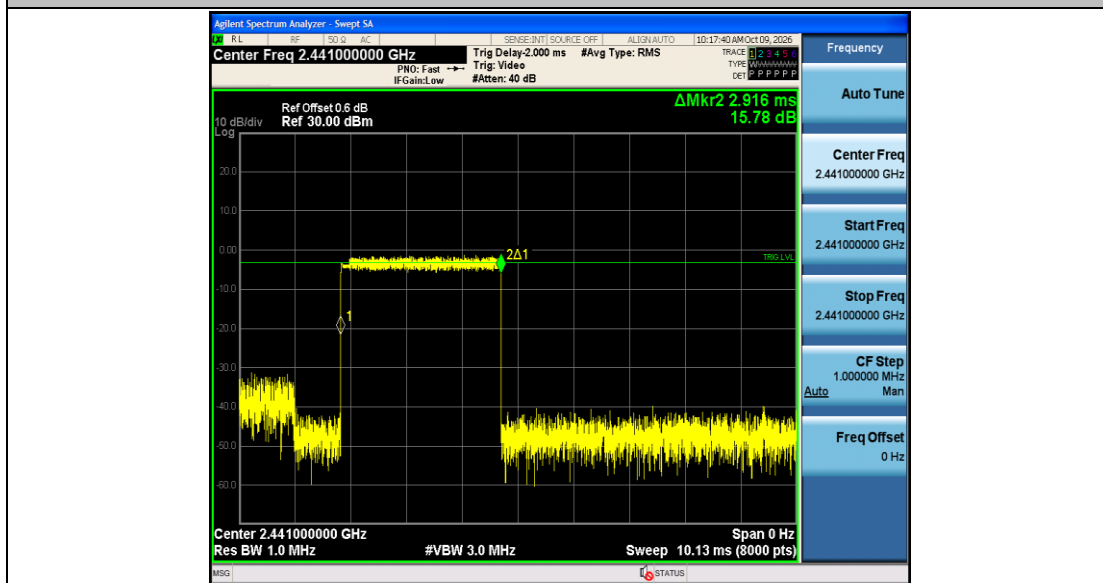
2DH1_Ant1_Hop

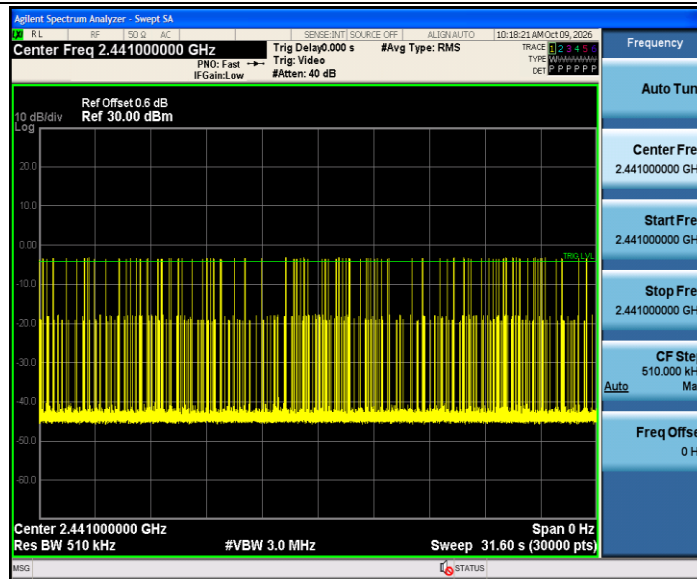


2DH3_Ant1_Hop

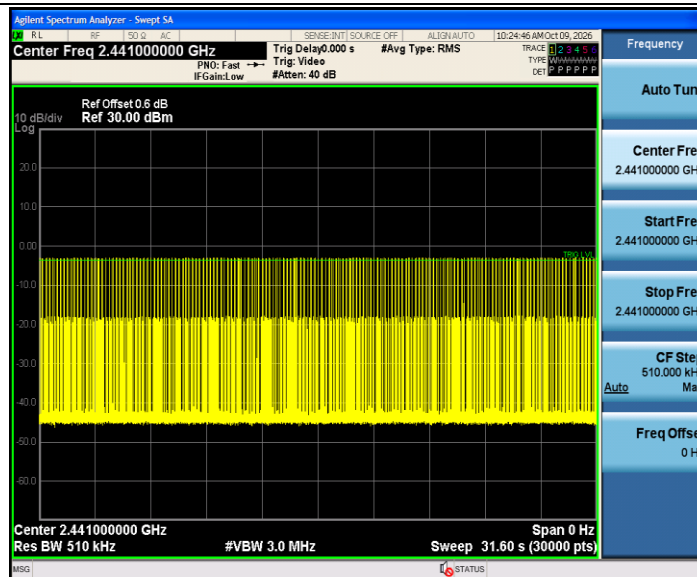
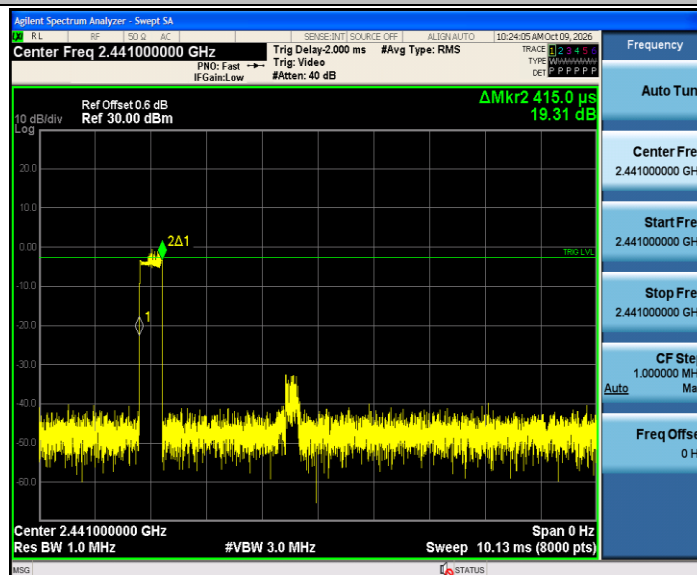


2DH5_Ant1_Hop

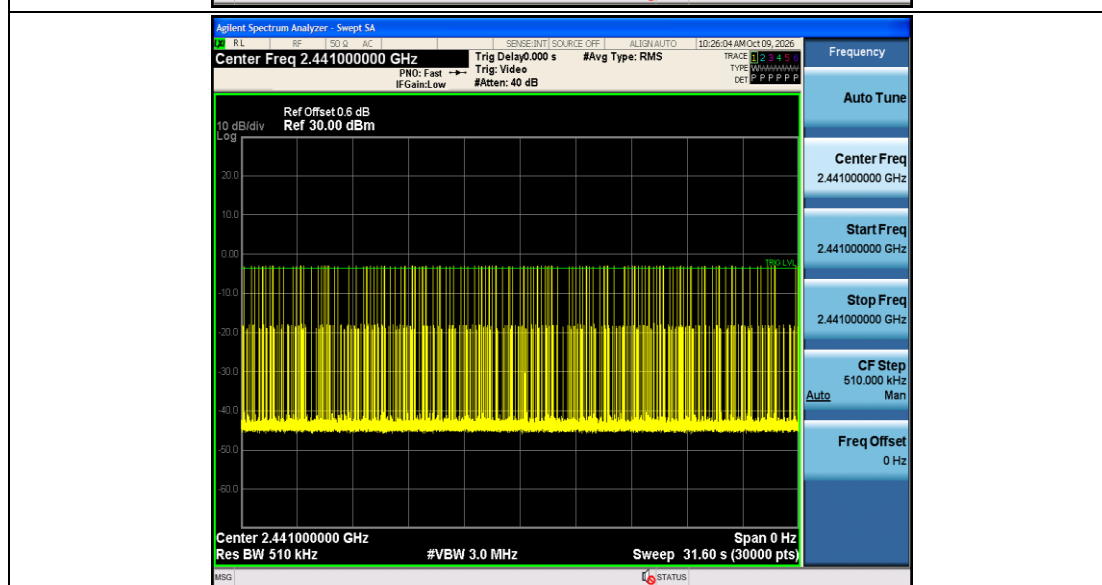
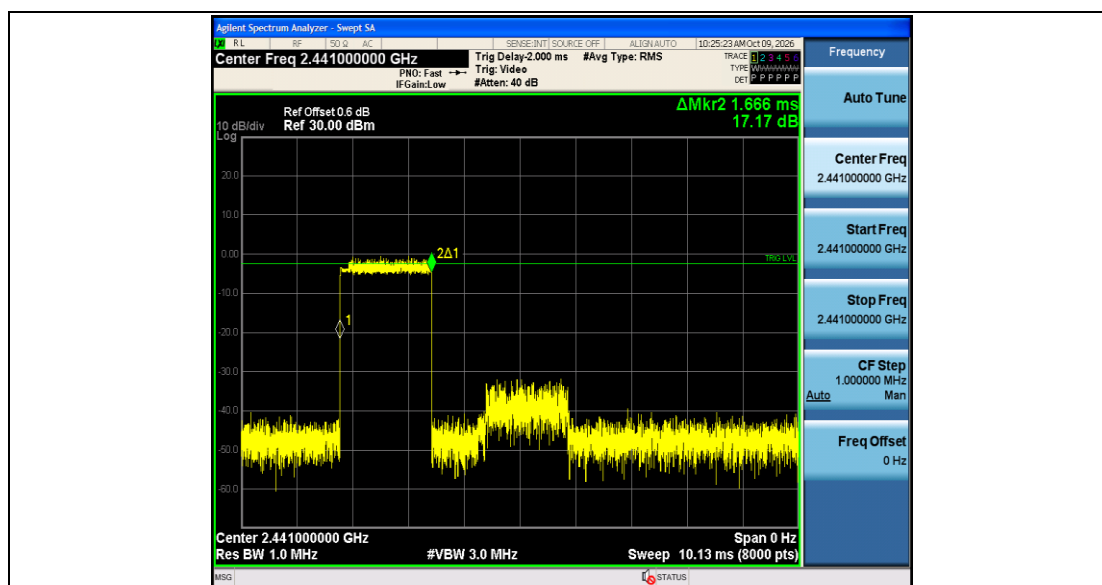




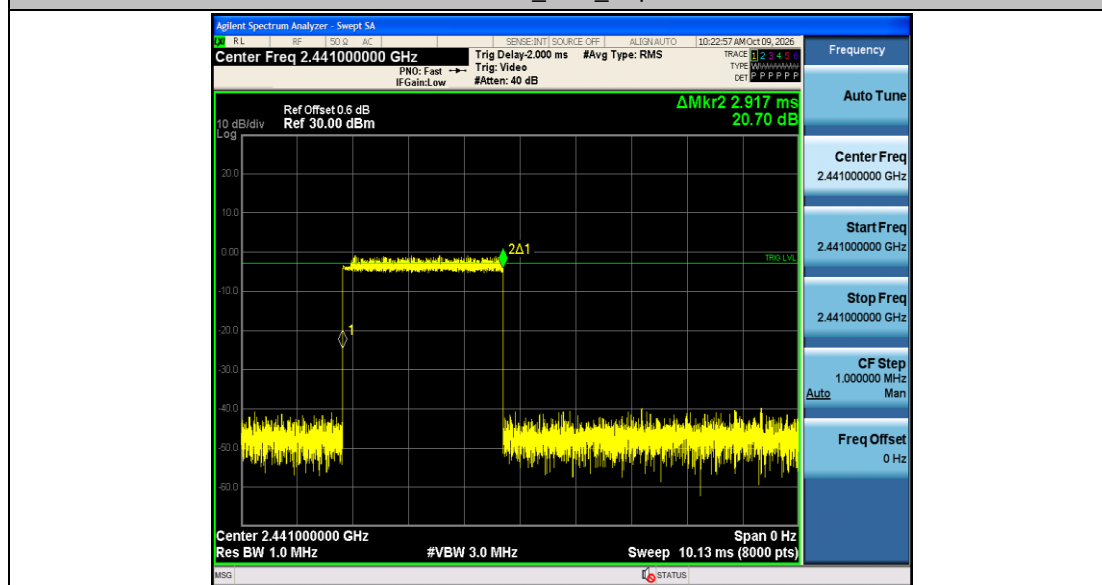
3DH1_Ant1_Hop

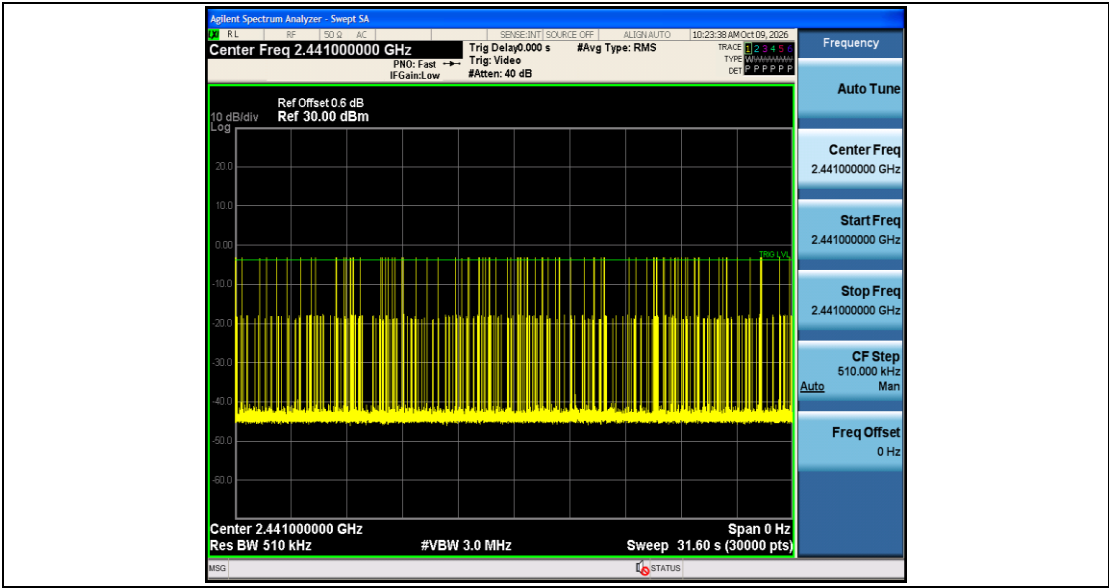


3DH3_Ant1_Hop



3DH5_Ant1_Hop



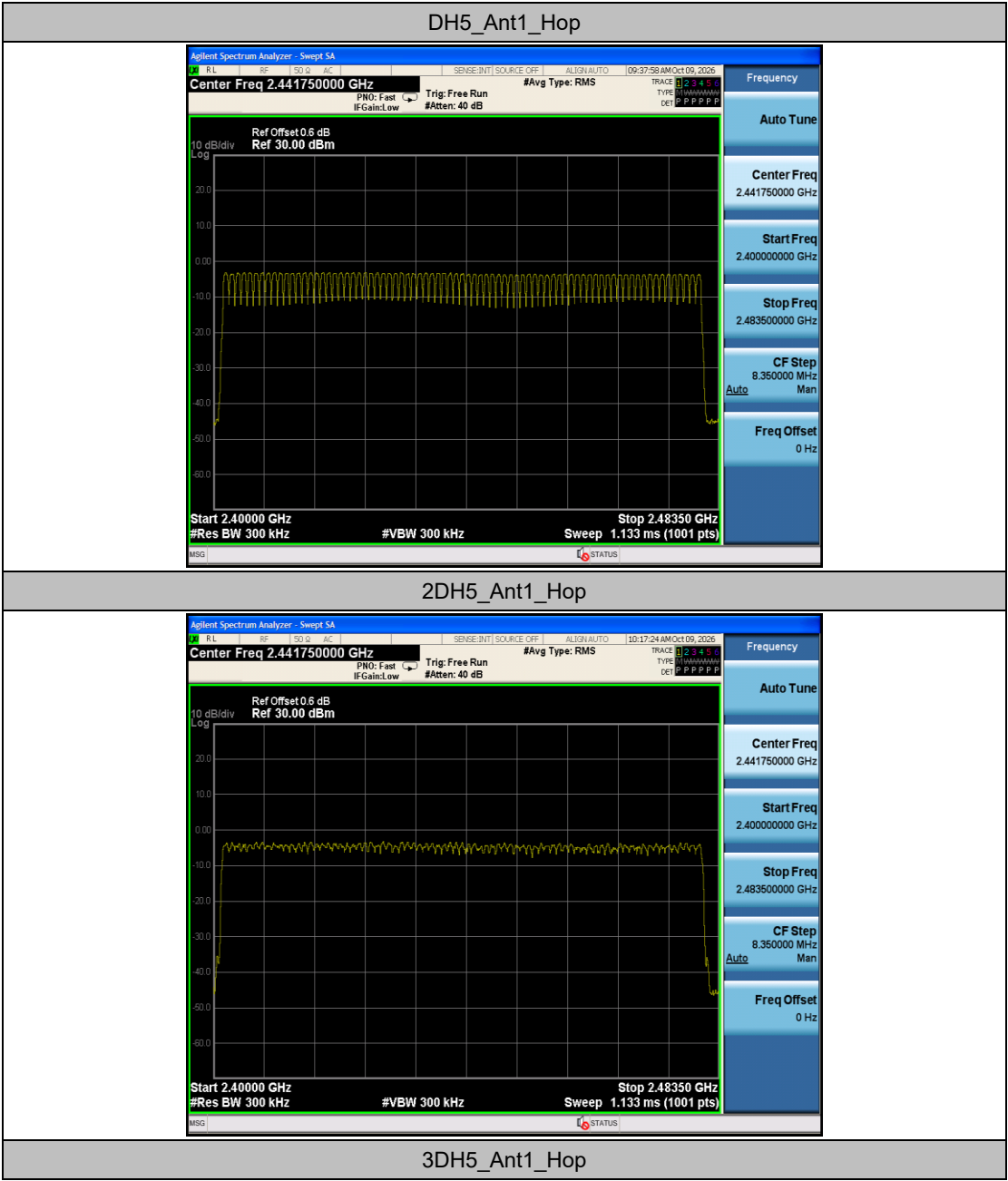


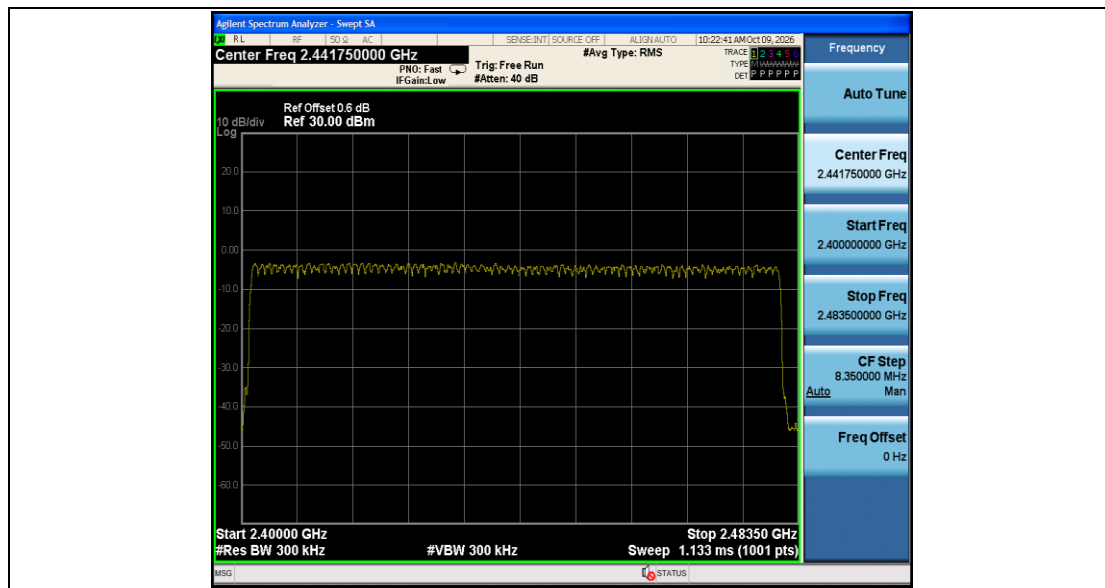
Appendix F: Number of hopping channels

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



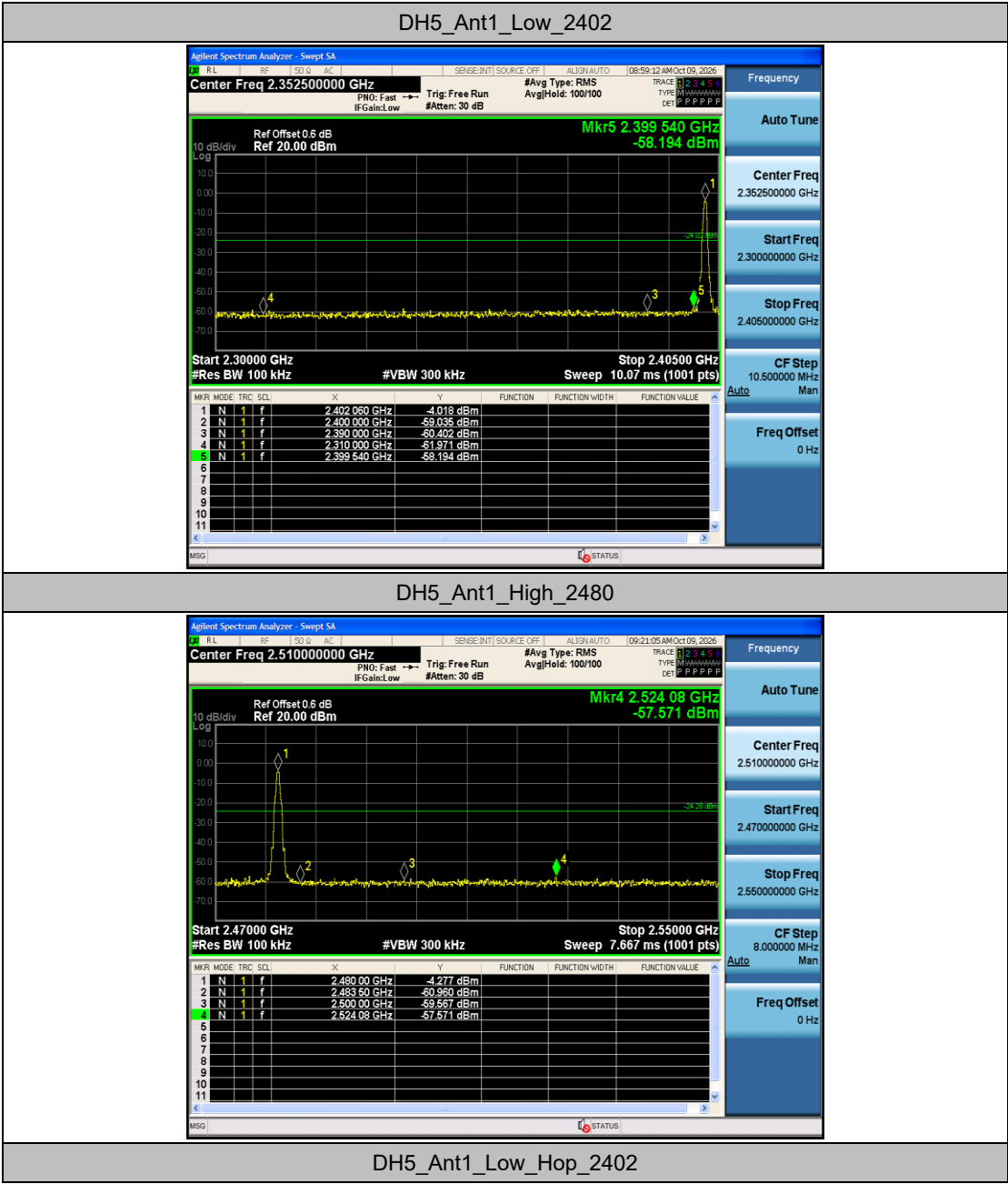


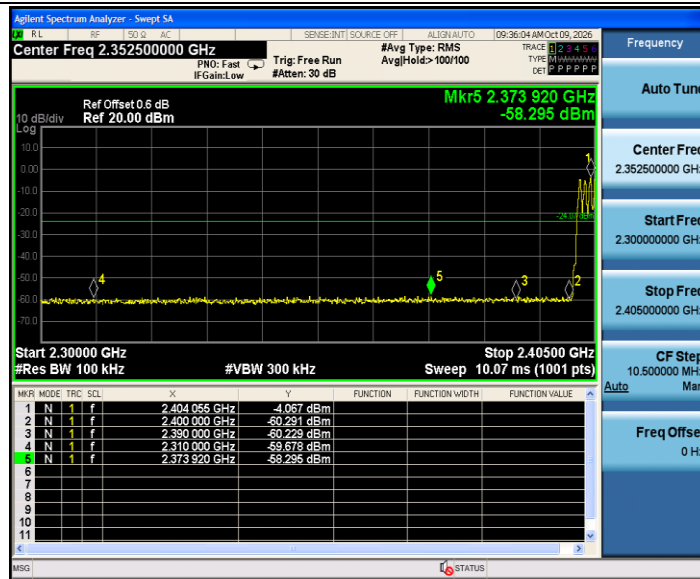
Appendix G: Band edge measurements

Test Result

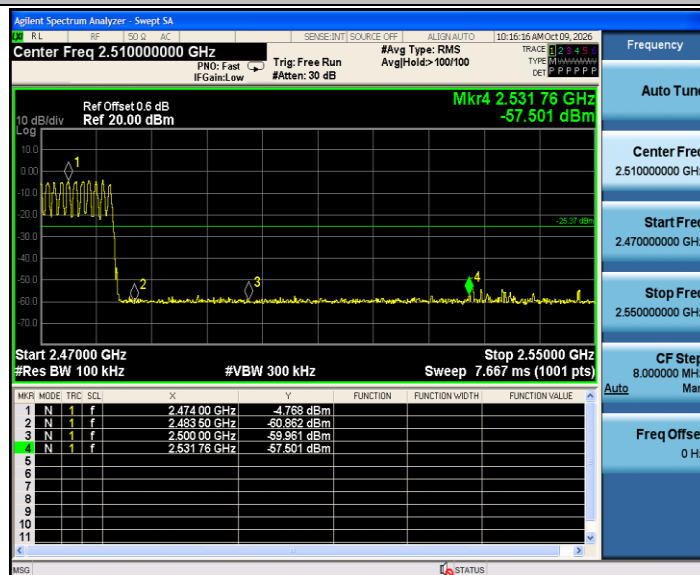
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.02	-58.19	≤ -24.02	PASS
		High	2480	-4.28	-57.57	≤ -24.28	PASS
		Low	Hop_2402	-4.07	-58.3	≤ -24.07	PASS
		High	Hop_2480	-5.37	-57.5	≤ -25.37	PASS
2DH5	Ant1	Low	2402	-4.61	-57.37	≤ -24.61	PASS
		High	2480	-4.73	-57.42	≤ -24.73	PASS
		Low	Hop_2402	-4.80	-57.44	≤ -24.8	PASS
		High	Hop_2480	-6.63	-57.63	≤ -26.63	PASS
3DH5	Ant1	Low	2402	-3.32	-57.67	≤ -23.32	PASS
		High	2480	-4.22	-53.58	≤ -24.22	PASS
		Low	Hop_2402	-5.29	-57.61	≤ -25.29	PASS
		High	Hop_2480	-3.67	-56.88	≤ -23.67	PASS

Test Graphs

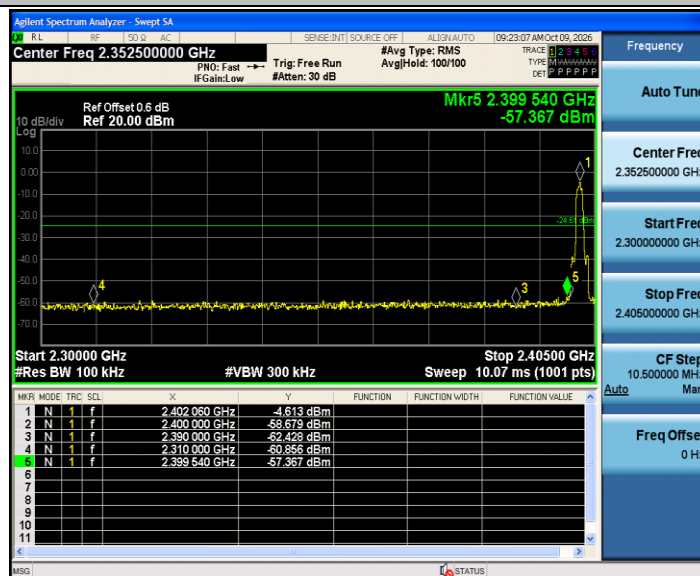




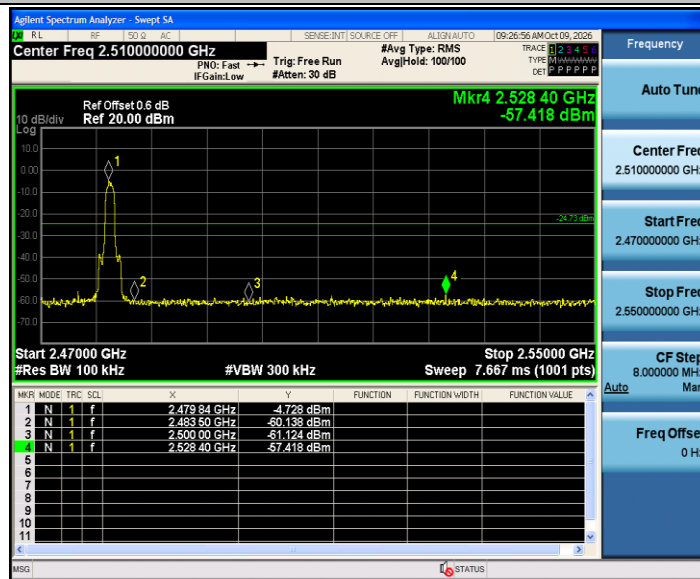
DH5_Ant1_High_Hop_2480



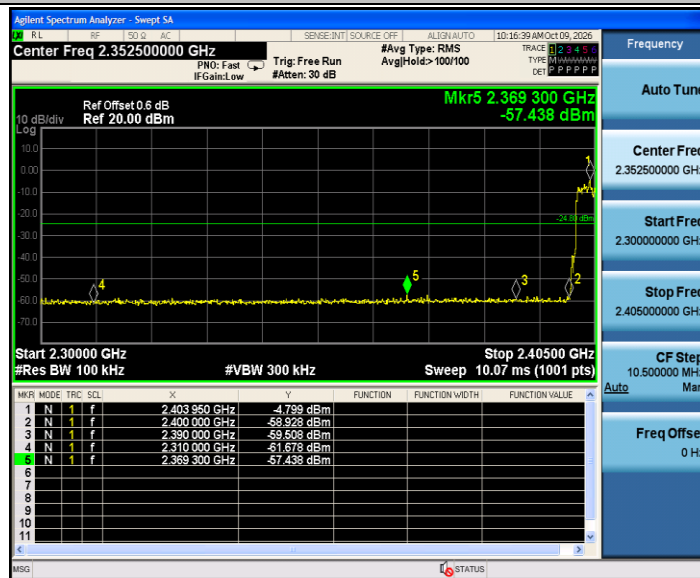
2DH5_Ant1_Low_2402



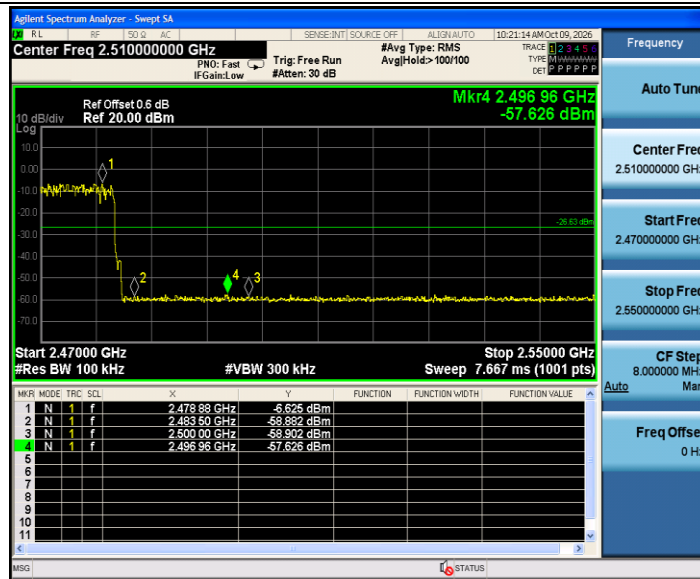
2DH5_Ant1_High_2480



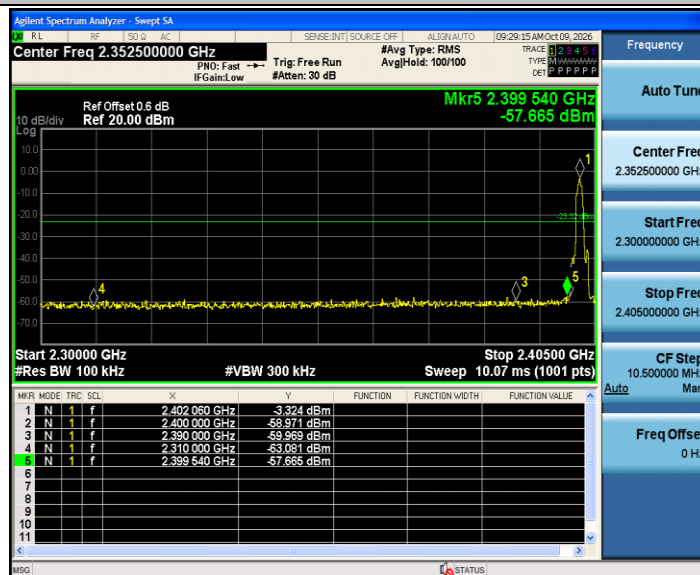
2DH5_Ant1_Low_Hop_2402



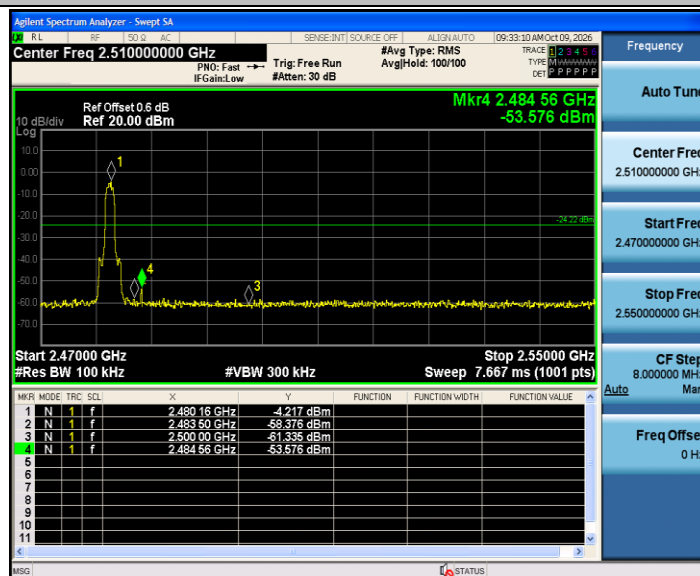
2DH5_Ant1_High_Hop_2480



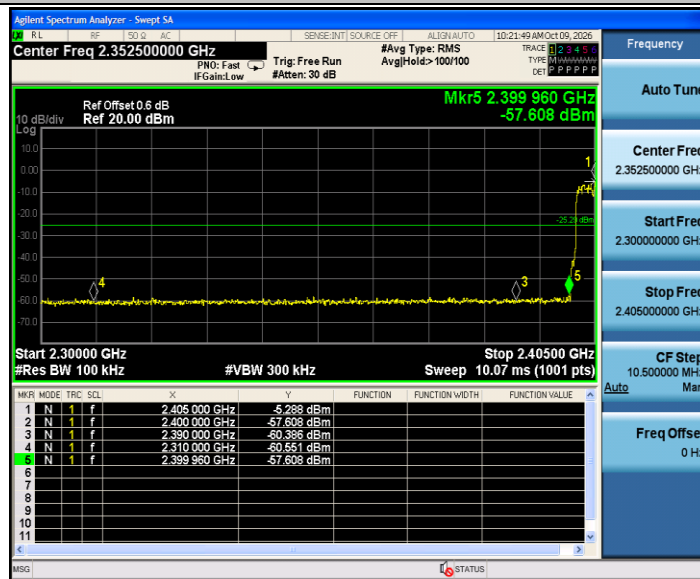
3DH5_Ant1_Low_2402



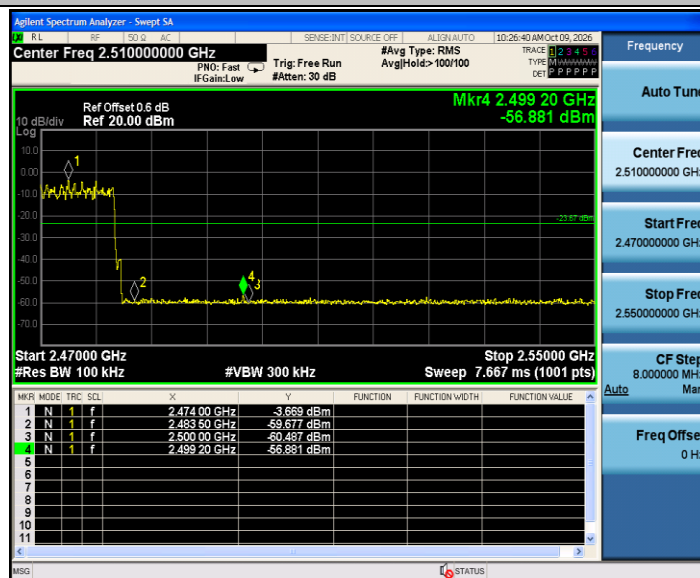
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

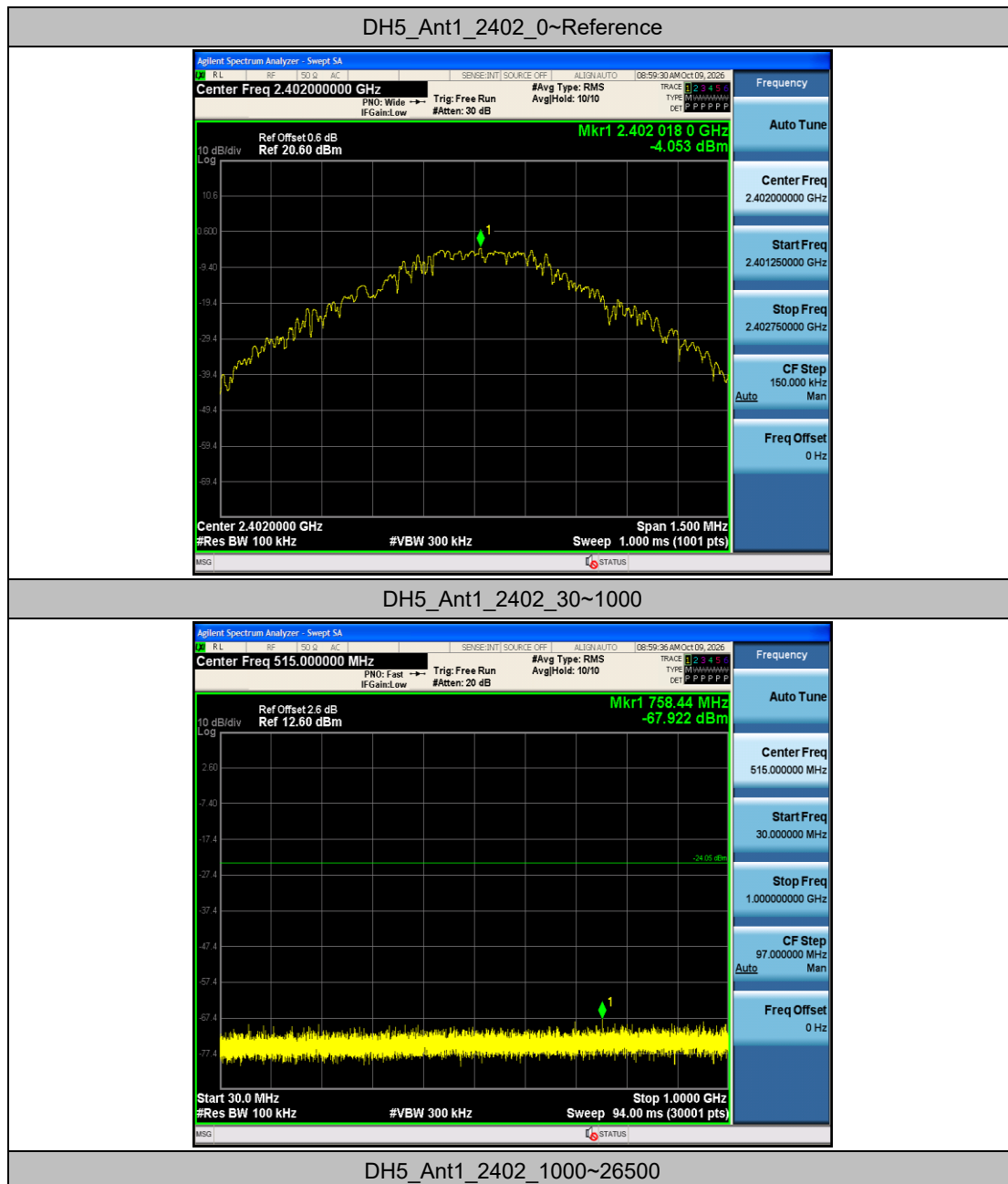


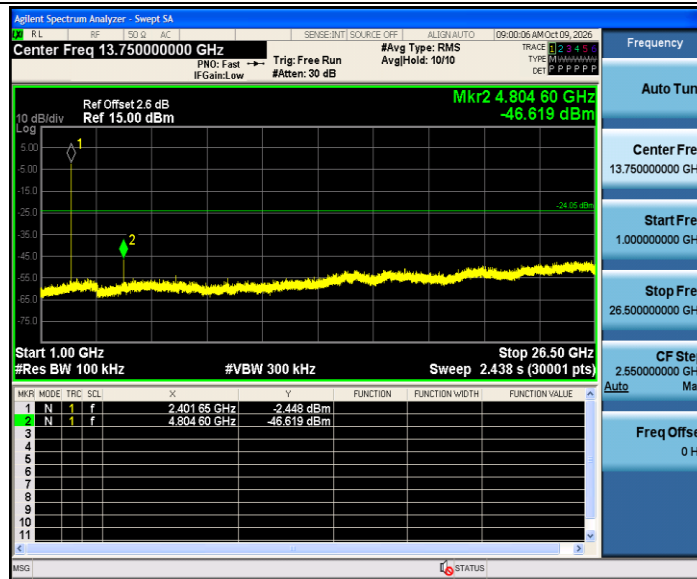
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.05	-4.05	---	PASS
			30~1000	-4.05	-67.92	≤-24.05	PASS
			1000~26500	-4.05	-46.62	≤-24.05	PASS
		2441	Reference	-4.95	-4.95	---	PASS
			30~1000	-4.95	-68.9	≤-24.95	PASS
			1000~26500	-4.95	-46.81	≤-24.95	PASS
		2480	Reference	-4.24	-4.24	---	PASS
			30~1000	-4.24	-69.06	≤-24.24	PASS
			1000~26500	-4.24	-46.82	≤-24.24	PASS
2DH5	Ant1	2402	Reference	-4.81	-4.81	---	PASS
			30~1000	-4.81	-68.93	≤-24.81	PASS
			1000~26500	-4.81	-46.71	≤-24.81	PASS
		2441	Reference	-5.09	-5.09	---	PASS
			30~1000	-5.09	-68.76	≤-25.09	PASS
			1000~26500	-5.09	-46.69	≤-25.09	PASS
		2480	Reference	-5.71	-5.71	---	PASS
			30~1000	-5.71	-69.22	≤-25.71	PASS
			1000~26500	-5.71	-45.31	≤-25.71	PASS
3DH5	Ant1	2402	Reference	-6.03	-6.03	---	PASS
			30~1000	-6.03	-68.02	≤-26.03	PASS
			1000~26500	-6.03	-46.46	≤-26.03	PASS
		2441	Reference	-6.10	-6.10	---	PASS
			30~1000	-6.10	-69.33	≤-26.1	PASS
			1000~26500	-6.10	-46.8	≤-26.1	PASS
		2480	Reference	-6.37	-6.37	---	PASS
			30~1000	-6.37	-69.37	≤-26.37	PASS
			1000~26500	-6.37	-46.09	≤-26.37	PASS

Test Graphs

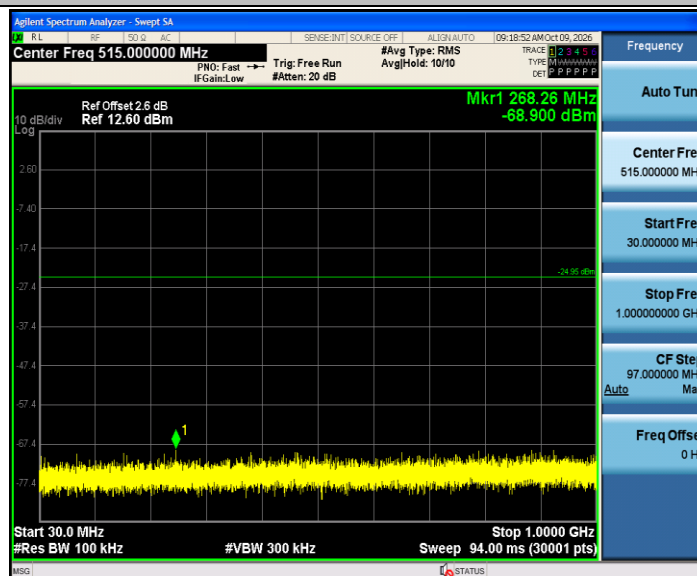




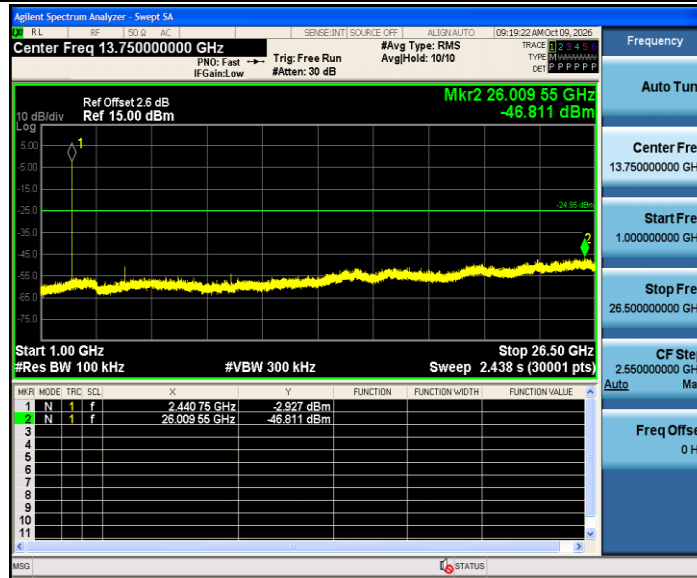
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



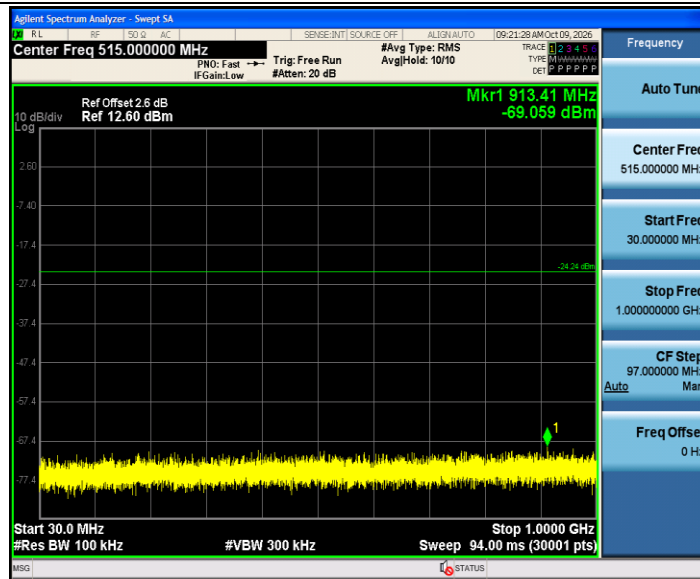
DH5_Ant1_2441_1000~26500



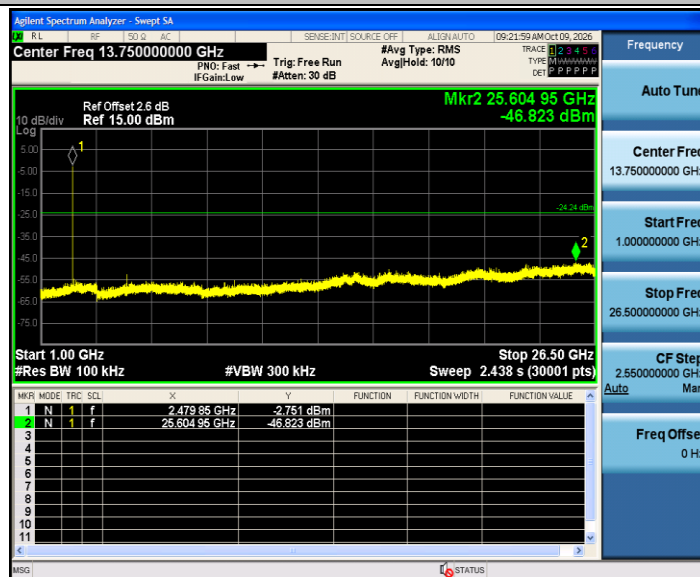
DH5_Ant1_2480_0~Reference



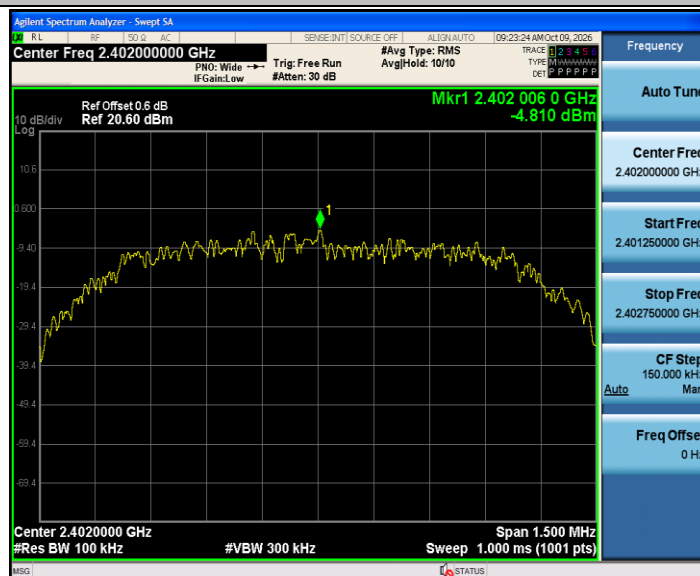
DH5_Ant1_2480_30~1000



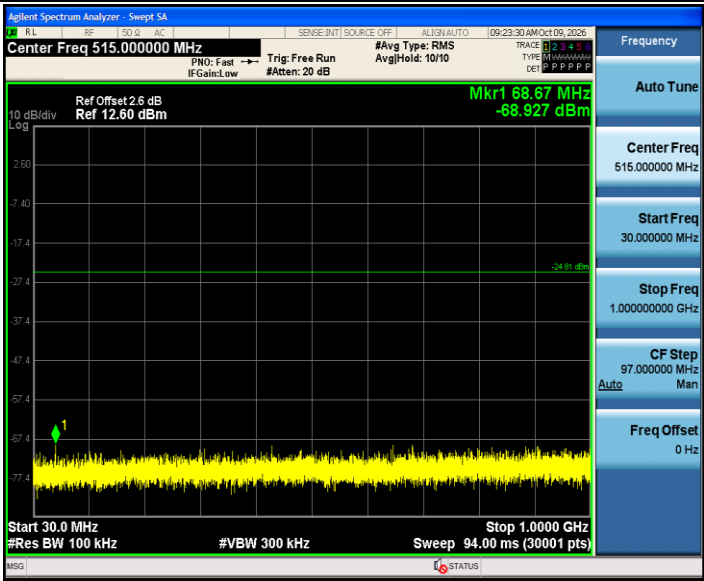
DH5_Ant1_2480_1000~26500



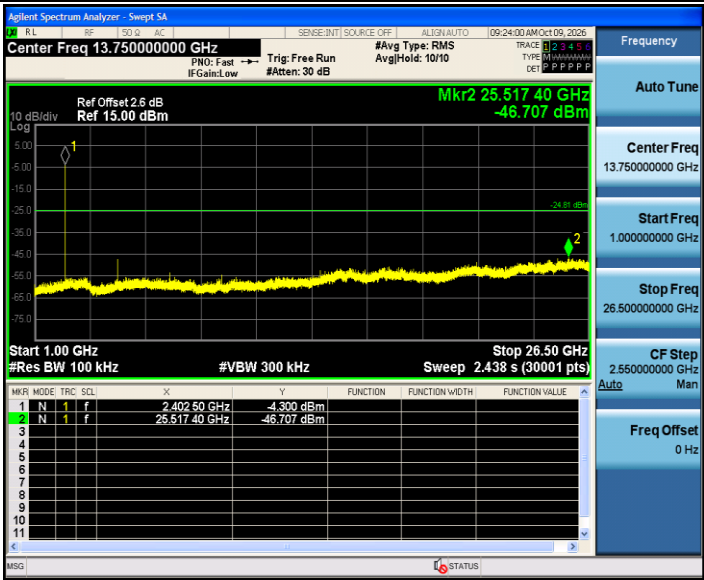
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference