

FCC Appendix RF Test Data for BT

FCC ID : 2BUMN-DY035
Company : DAZONE LLC
EUT : SPEAKER
Model Number : DY035
Report No. : CTA26092100601
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	2401.544	2402.507	---	---
		2441	0.963	2440.544	2441.507	---	---
		2480	0.957	2479.541	2480.498	---	---
2DH5	Ant1	2402	1.296	2401.373	2402.669	---	---
		2441	1.320	2440.352	2441.672	---	---
		2480	1.332	2479.343	2480.675	---	---
3DH5	Ant1	2402	1.317	2401.355	2402.672	---	---
		2441	1.320	2440.352	2441.672	---	---
		2480	1.311	2479.358	2480.669	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

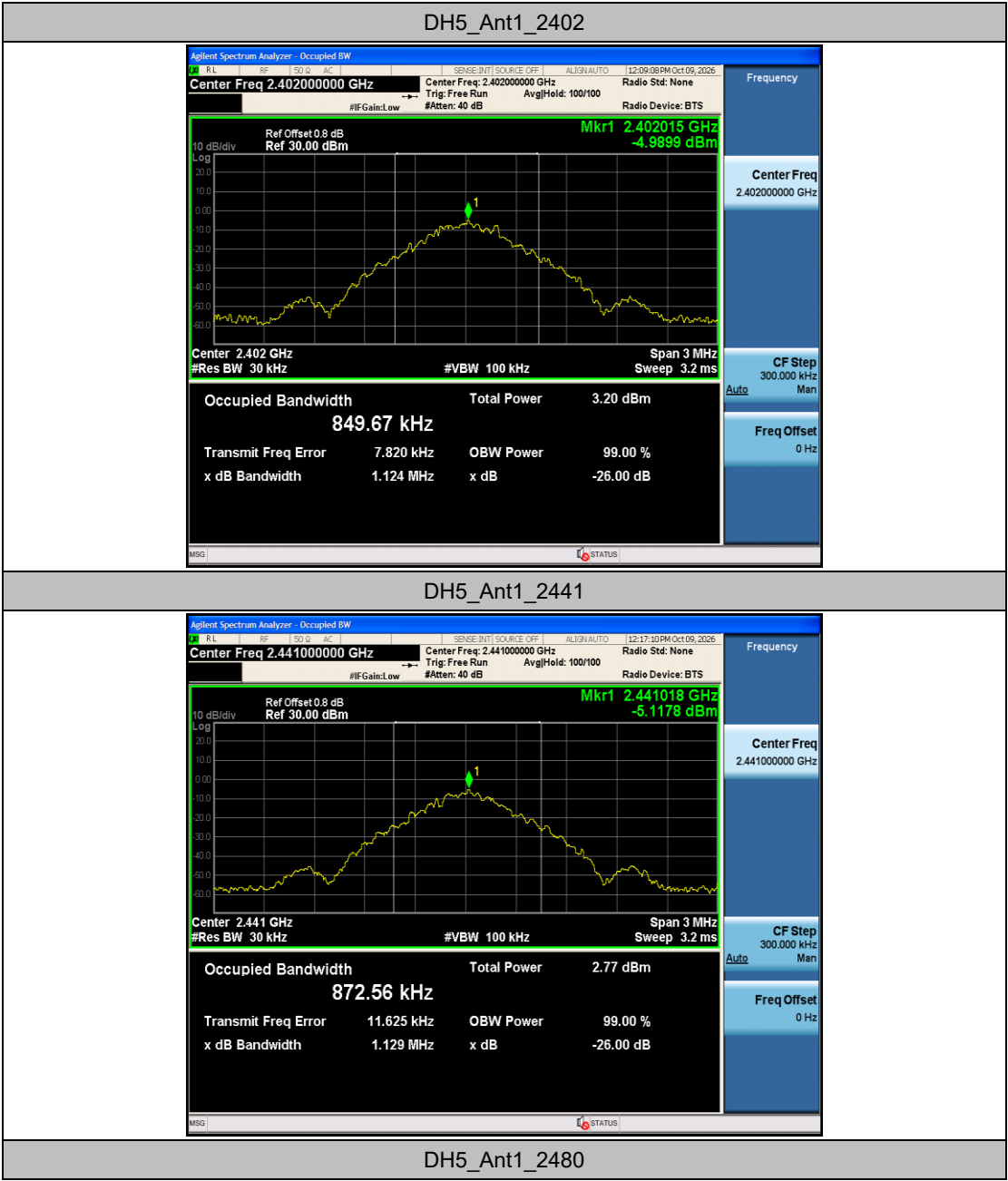


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.84967	2401.5830	2402.4327	---	---
		2441	0.87256	2440.5753	2441.4479	---	---
		2480	0.85711	2479.5756	2480.4327	---	---
2DH5	Ant1	2402	1.1913	2401.4159	2402.6072	---	---
		2441	1.1879	2440.4145	2441.6024	---	---
		2480	1.1891	2479.4148	2480.6039	---	---
3DH5	Ant1	2402	1.1848	2401.4231	2402.6079	---	---
		2441	1.1876	2440.4192	2441.6068	---	---
		2480	1.1917	2479.4173	2480.6090	---	---

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

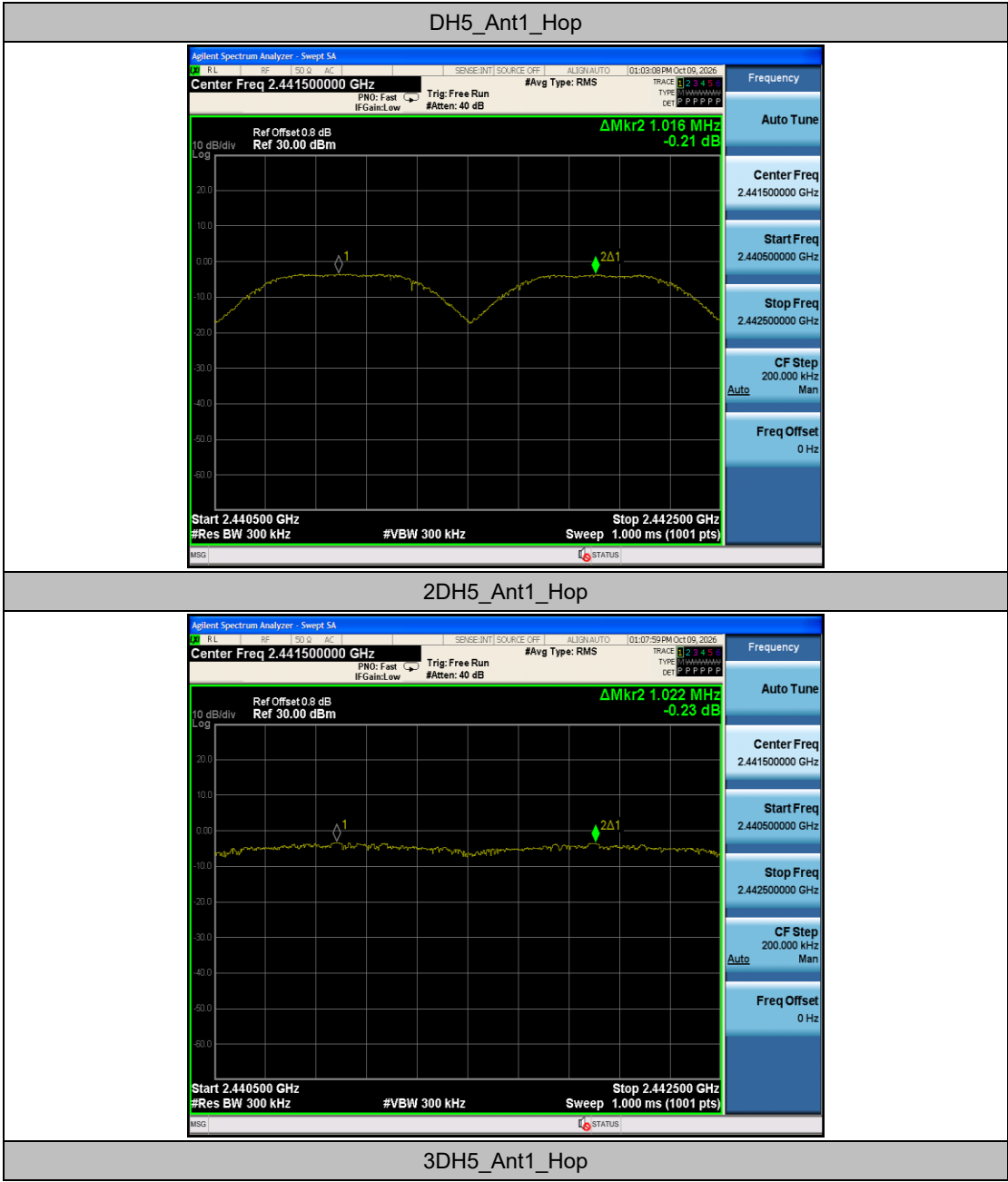
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.42	≤20.97	PASS
		2441	-3.51	≤20.97	PASS
		2480	-3.80	≤20.97	PASS
2DH5	Ant1	2402	-0.76	≤20.97	PASS
		2441	-0.93	≤20.97	PASS
		2480	-1.10	≤20.97	PASS
3DH5	Ant1	2402	-0.05	≤20.97	PASS
		2441	-0.15	≤20.97	PASS
		2480	-0.36	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.016	≥ 0.963	PASS
2DH5	Ant1	Hop	1.022	≥ 0.888	PASS
3DH5	Ant1	Hop	1.02	≥ 0.880	PASS

Test Graphs



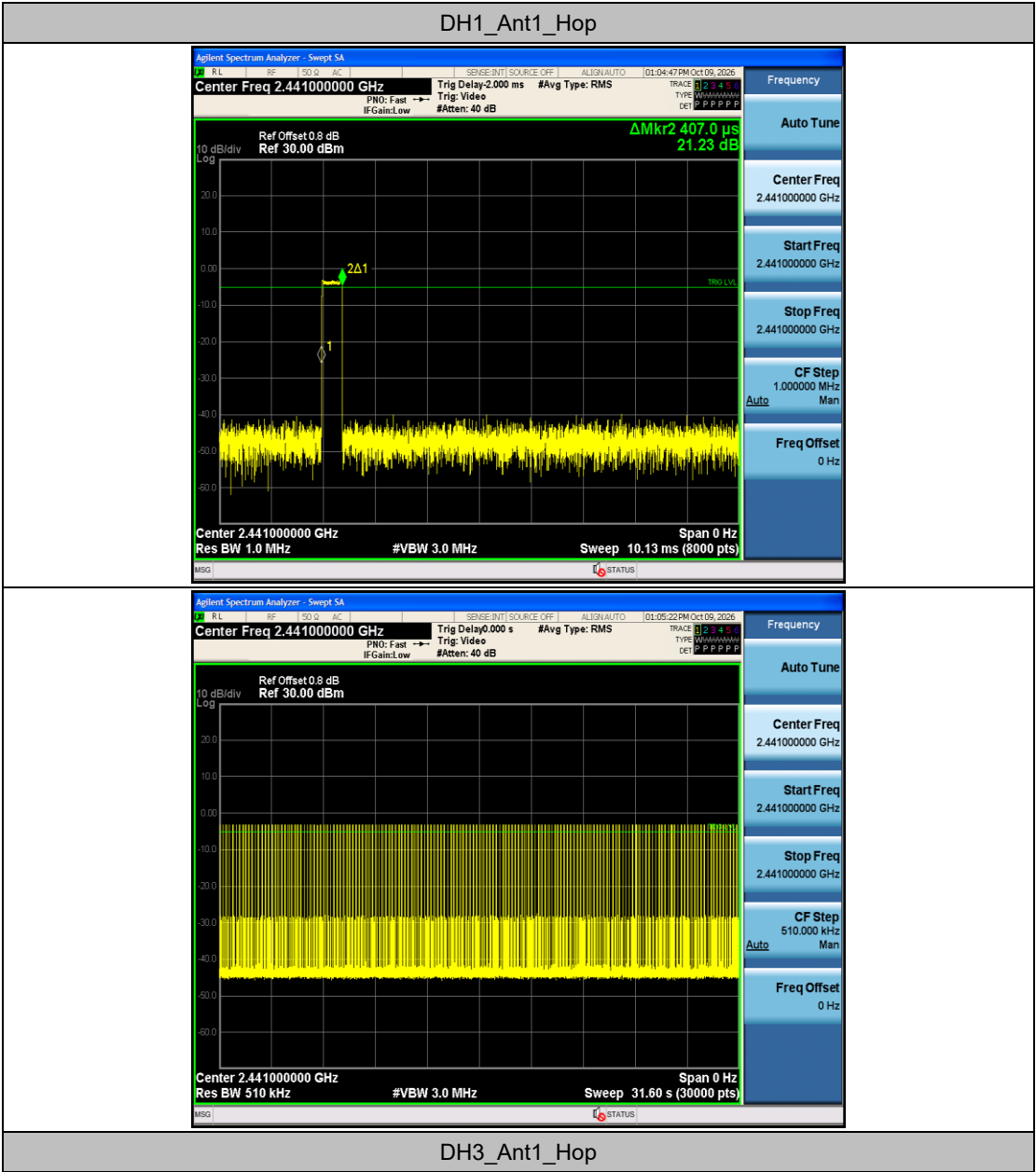


Appendix E: Time of occupancy

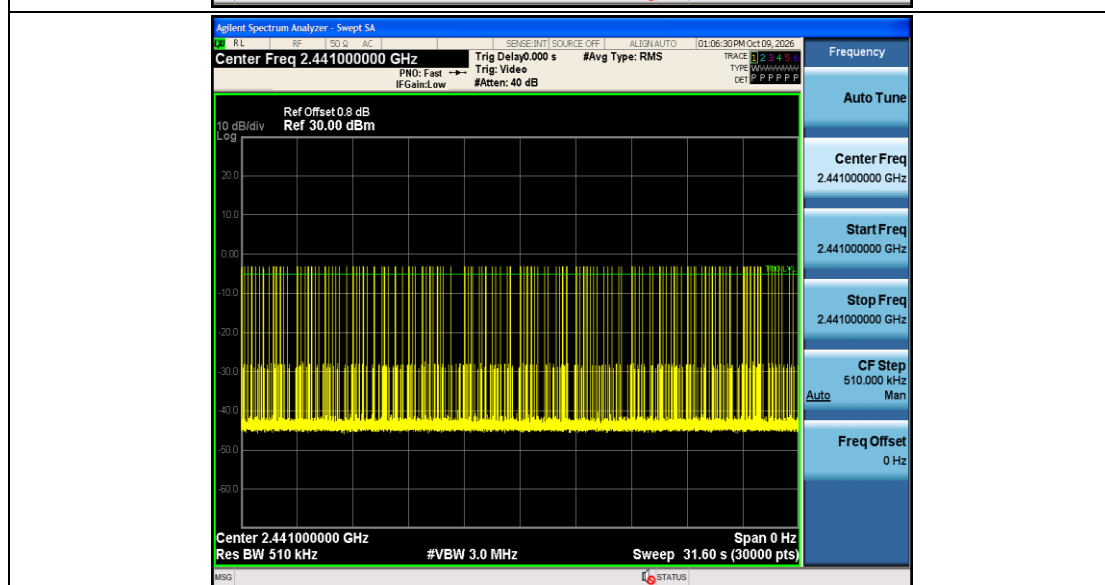
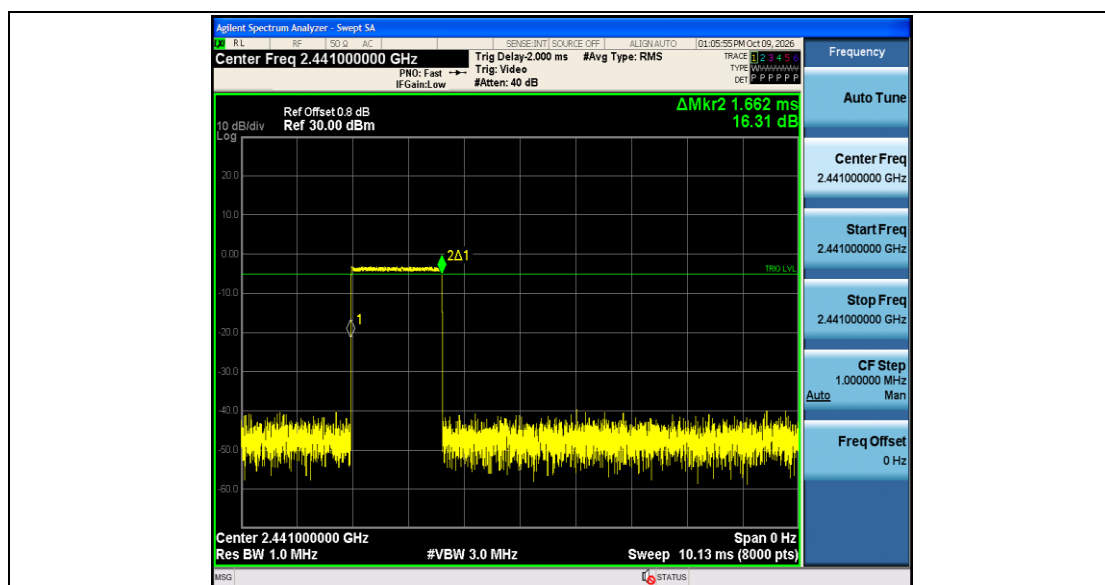
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	314	0.128	≤0.4	PASS
DH3	Ant1	Hop	1.662	162	0.269	≤0.4	PASS
DH5	Ant1	Hop	2.910	97	0.282	≤0.4	PASS
2DH1	Ant1	Hop	0.415	316	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.668	161	0.269	≤0.4	PASS
2DH5	Ant1	Hop	2.916	100	0.292	≤0.4	PASS
3DH1	Ant1	Hop	0.415	317	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.666	153	0.255	≤0.4	PASS
3DH5	Ant1	Hop	2.916	103	0.3	≤0.4	PASS

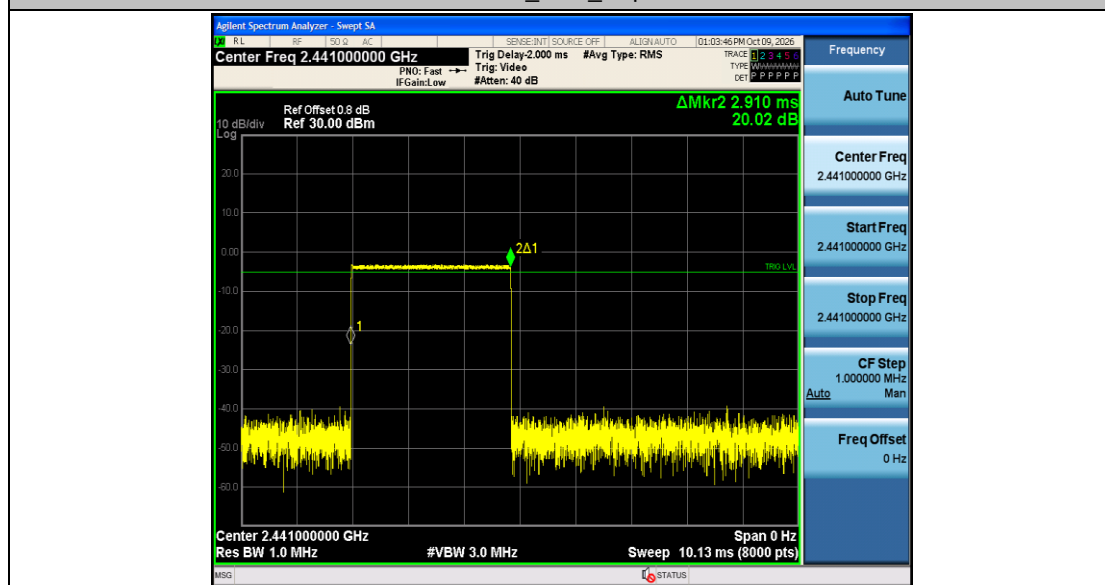
Test Graphs

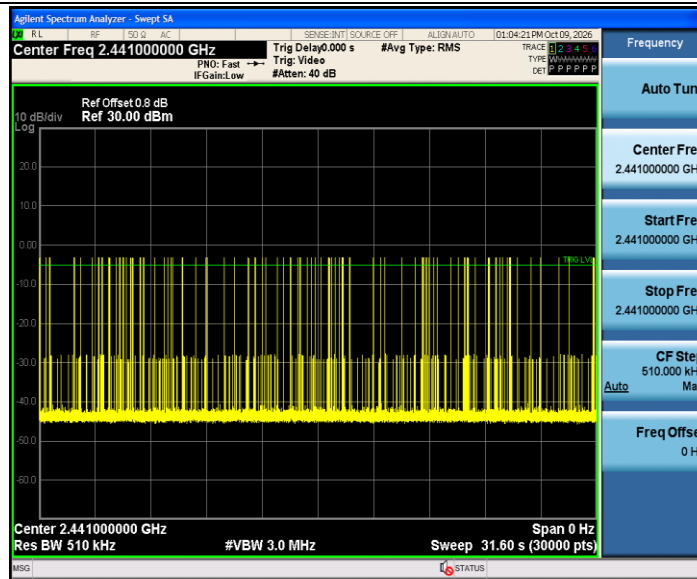


DH3_Ant1_Hop

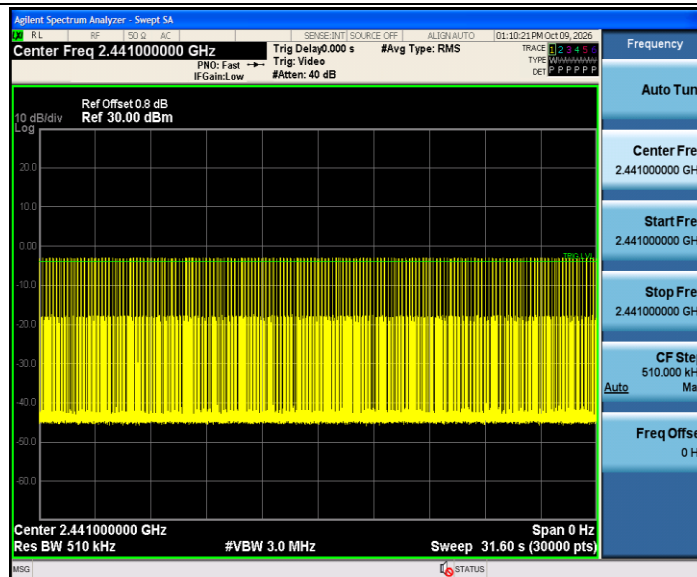
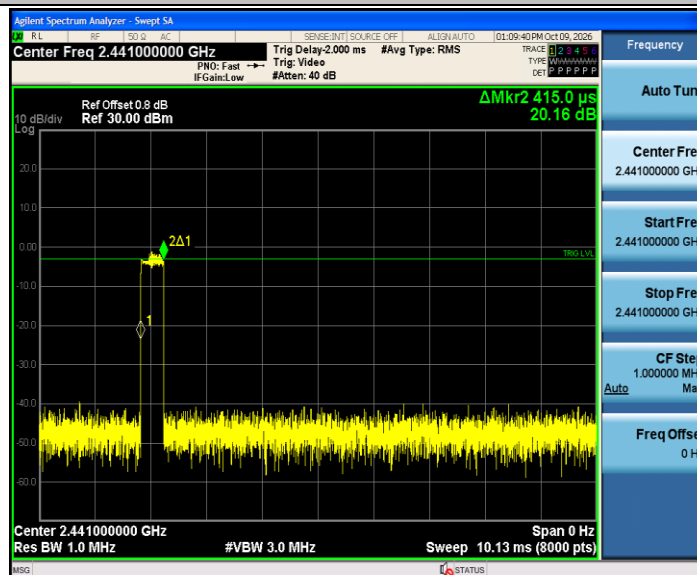


DH5_Ant1_Hop

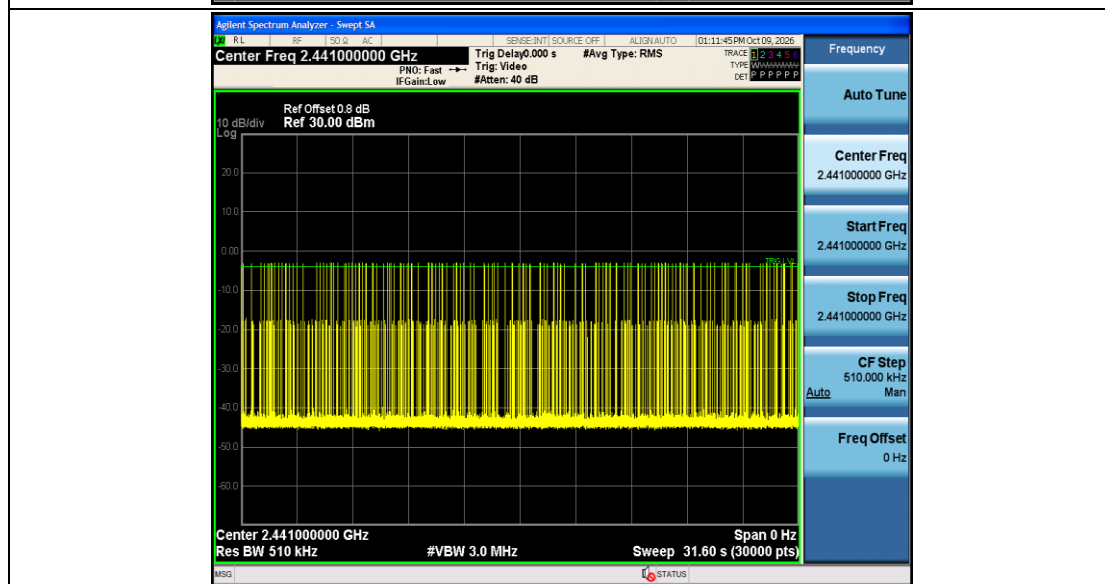
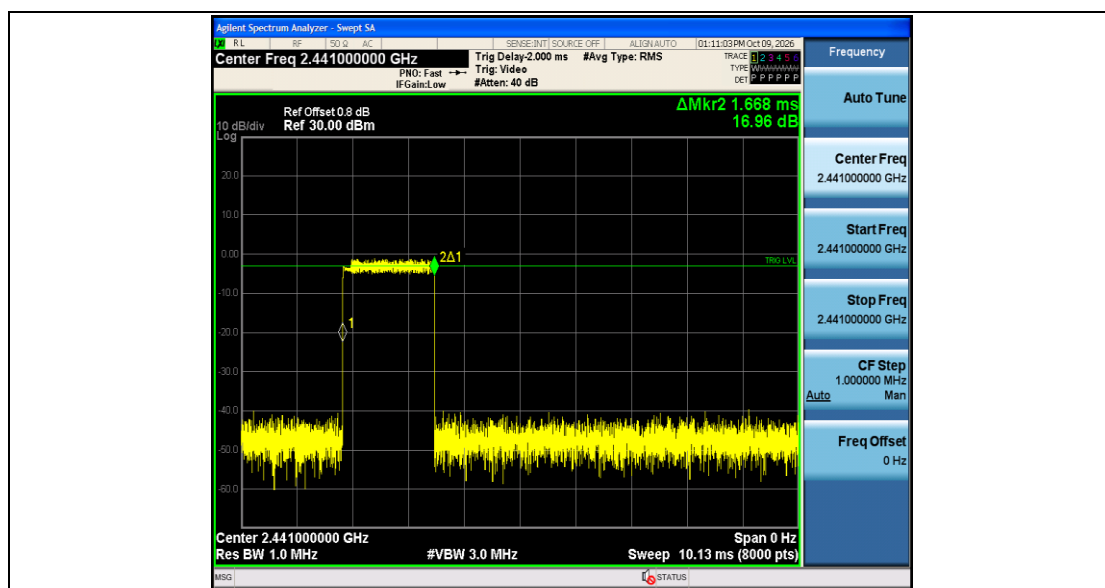




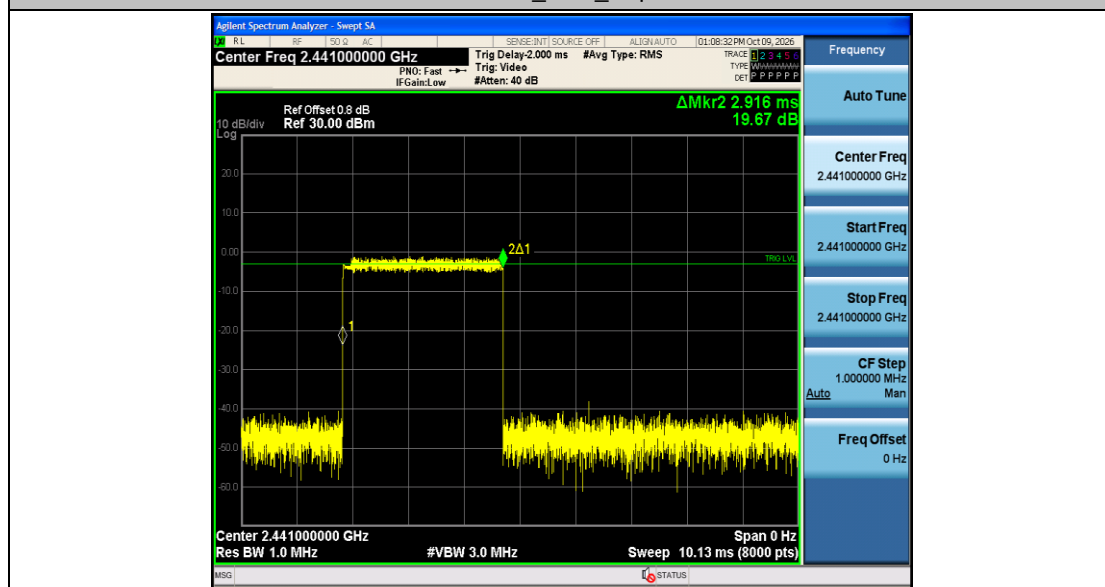
2DH1_Ant1_Hop

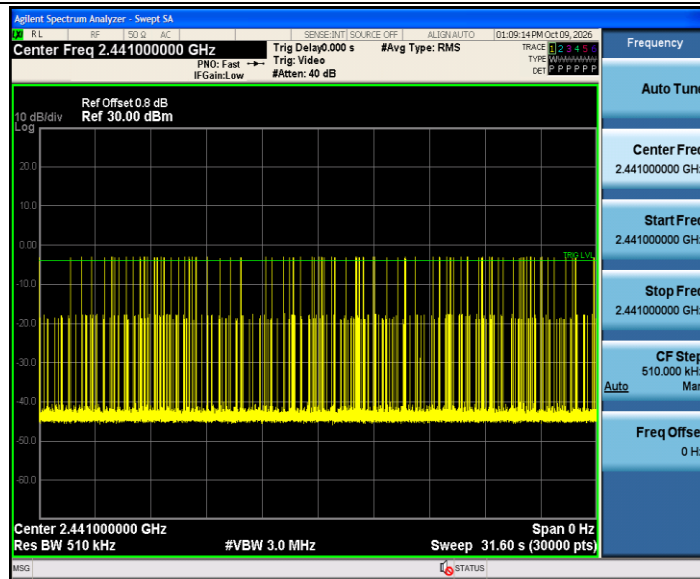


2DH3_Ant1_Hop

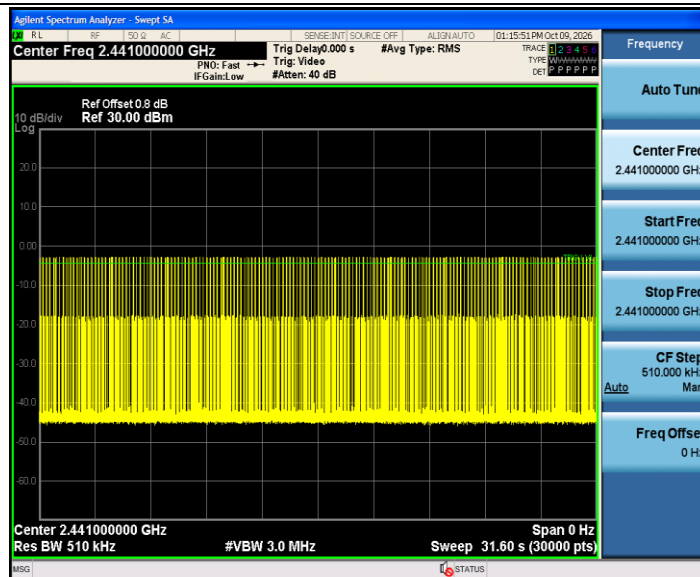
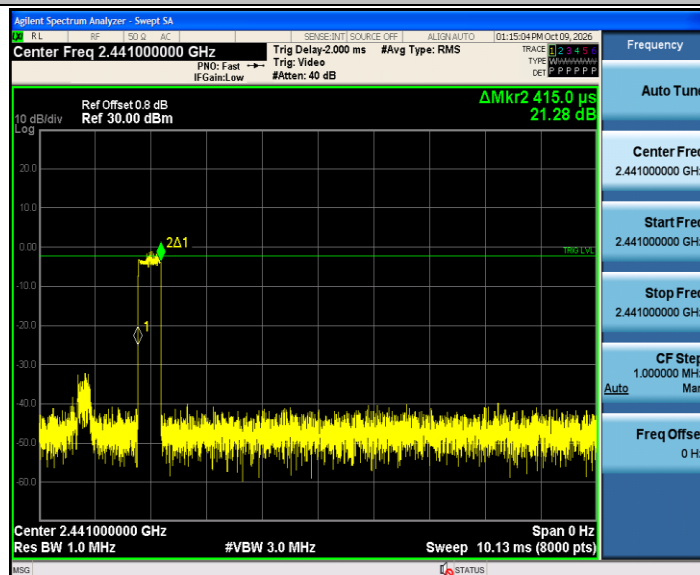


2DH5_Ant1_Hop

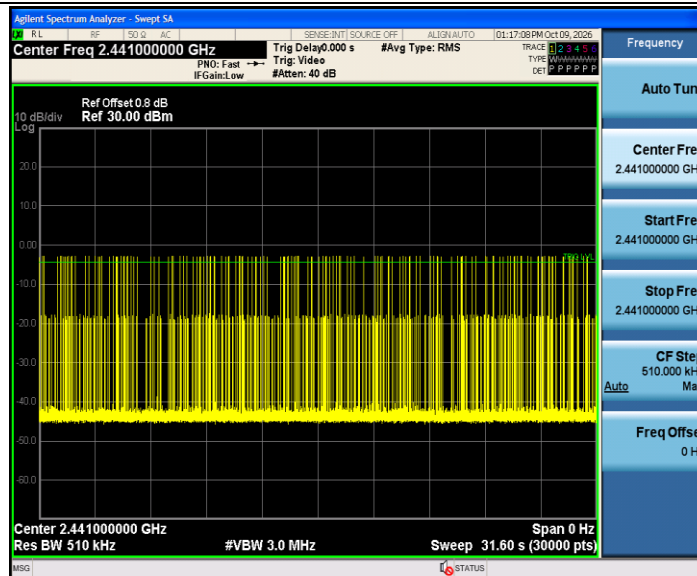
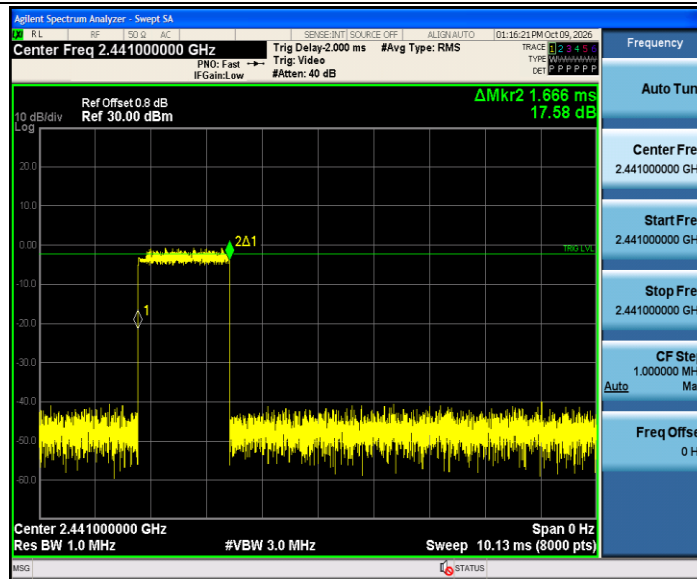




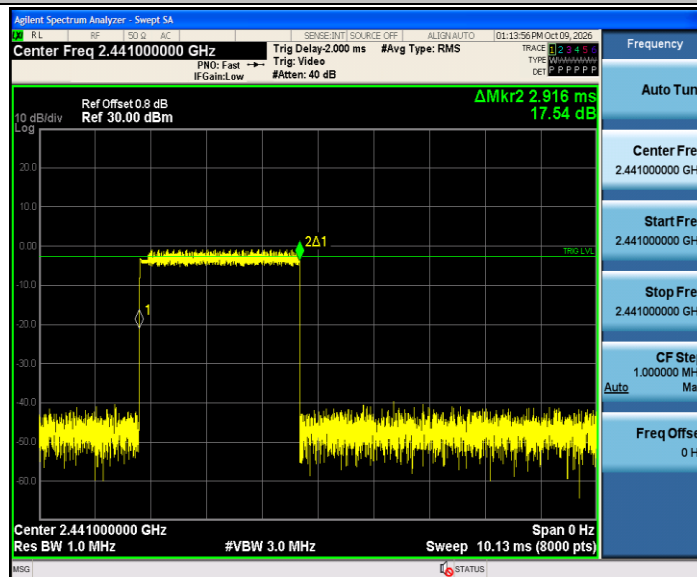
3DH1_Ant1_Hop

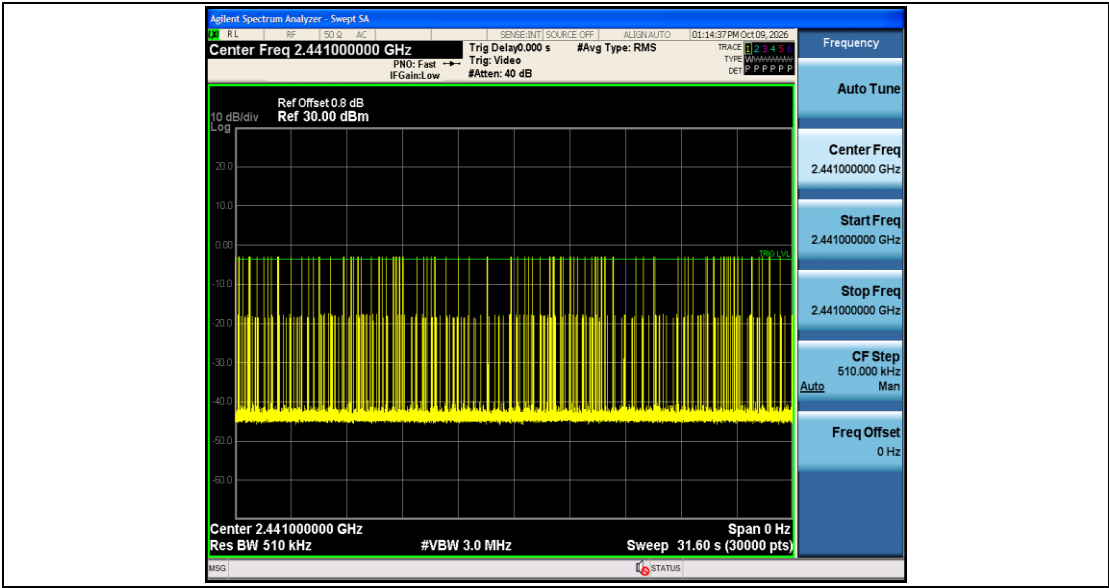


3DH3_Ant1_Hop



3DH5_Ant1_Hop



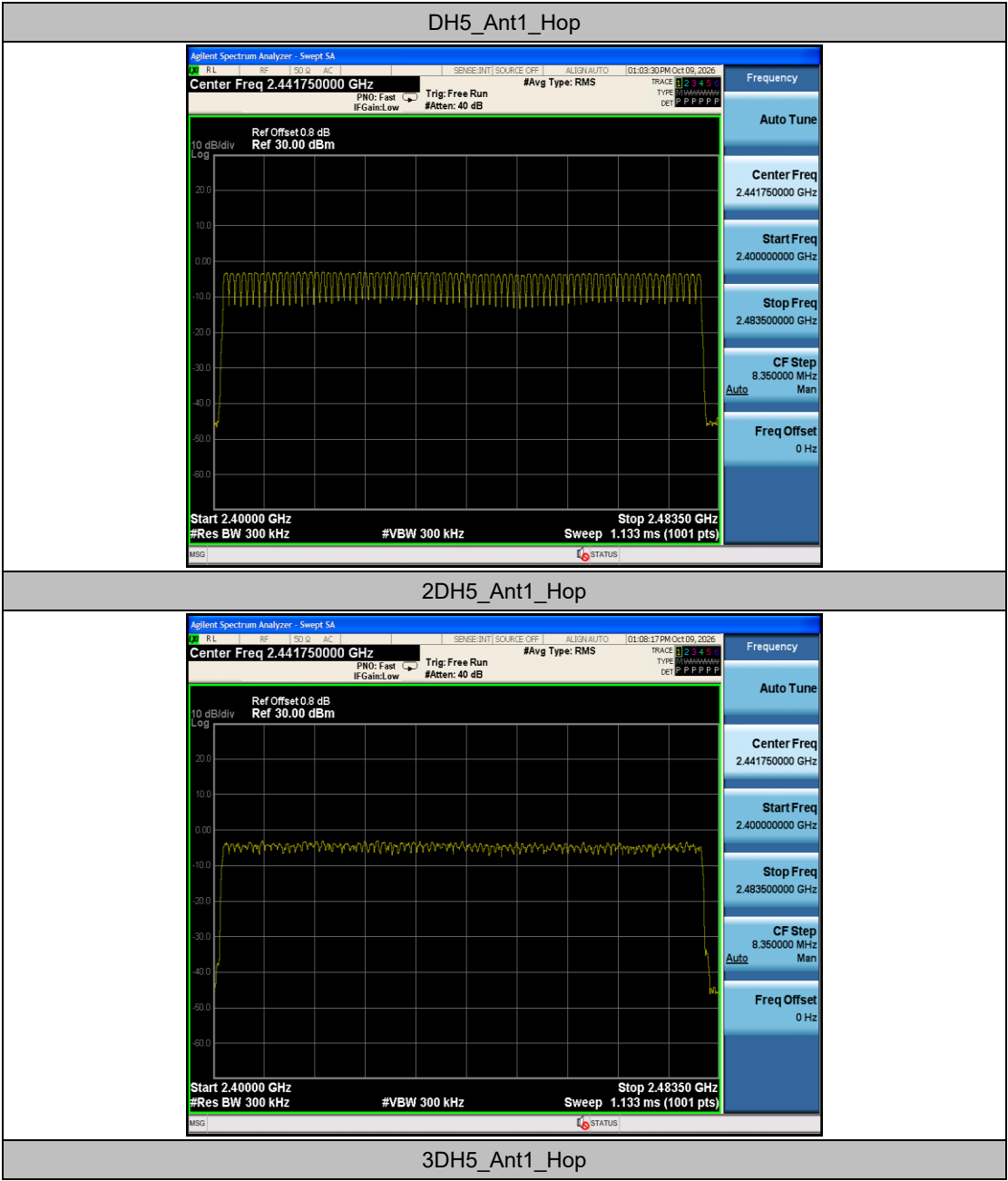


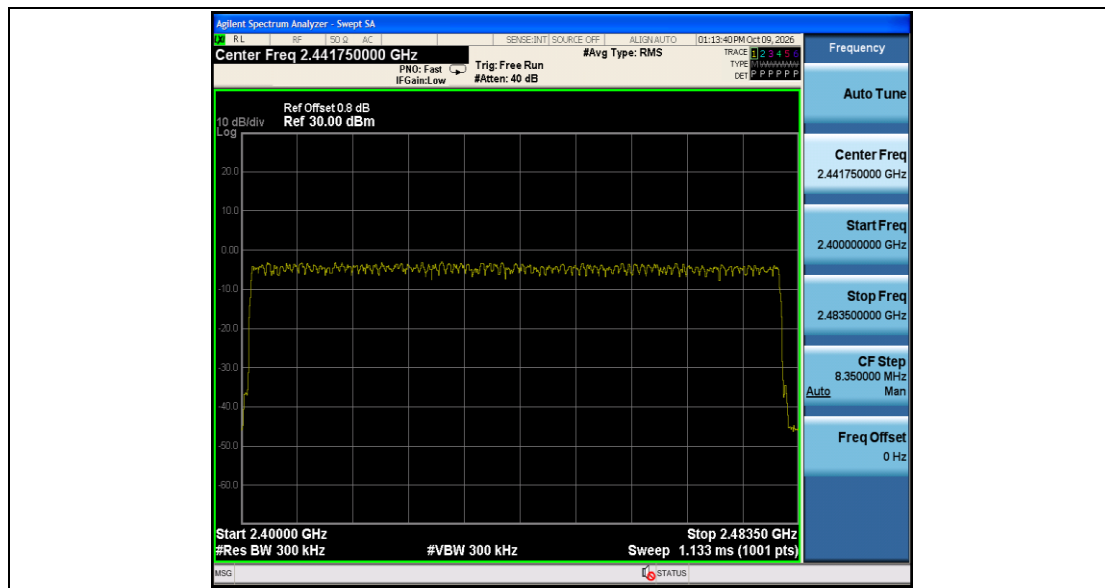
Appendix F: Number of hopping channels

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



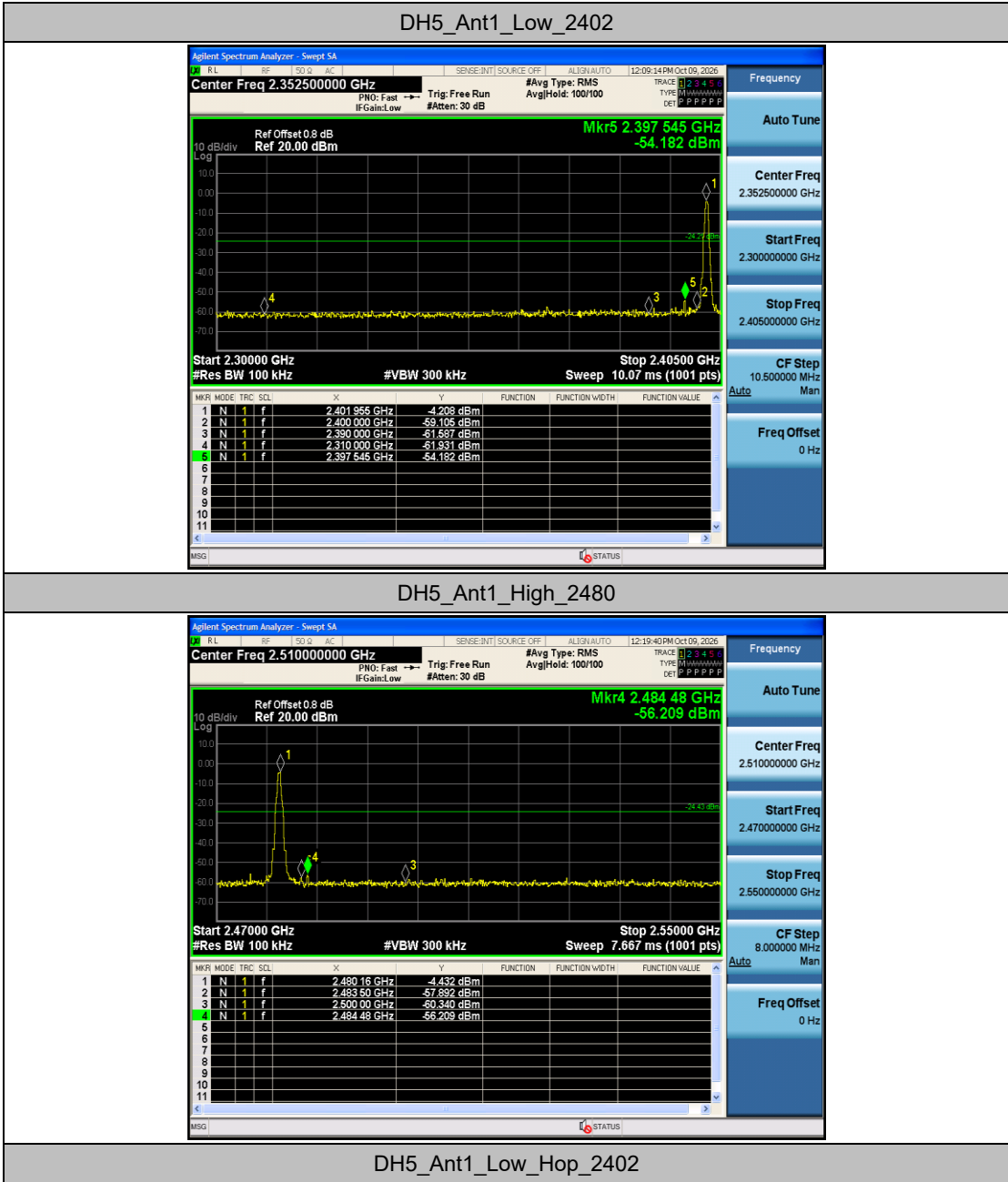


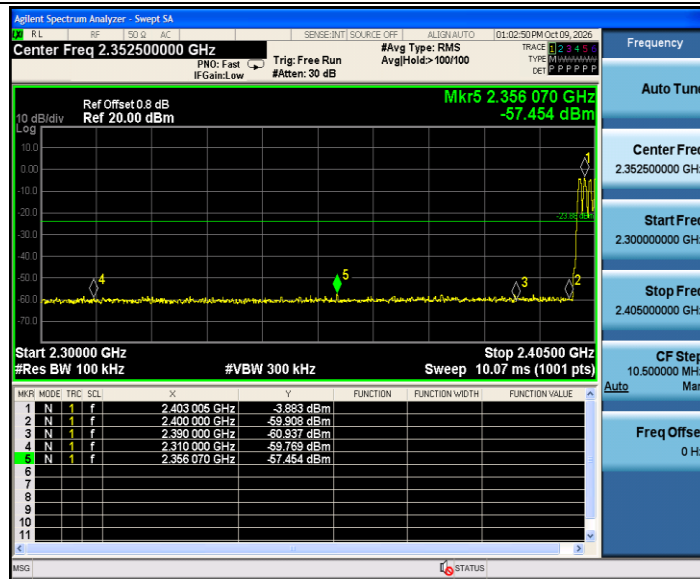
Appendix G: Band edge measurements

Test Result

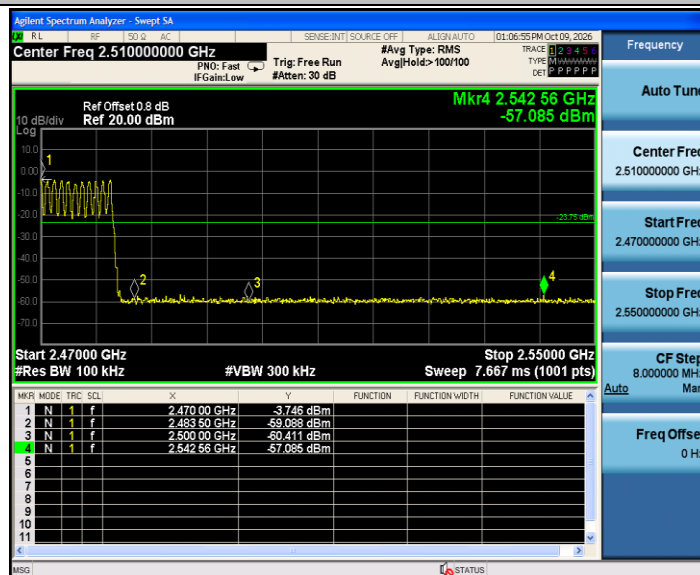
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.21	-54.18	≤-24.21	PASS
		High	2480	-4.43	-56.21	≤-24.43	PASS
		Low	Hop_2402	-3.88	-57.45	≤-23.88	PASS
		High	Hop_2480	-3.75	-57.09	≤-23.75	PASS
2DH5	Ant1	Low	2402	-4.18	-58.27	≤-24.18	PASS
		High	2480	-4.62	-57.21	≤-24.62	PASS
		Low	Hop_2402	-7.04	-58.15	≤-27.04	PASS
		High	Hop_2480	-6.56	-57.01	≤-26.56	PASS
3DH5	Ant1	Low	2402	-3.71	-55.42	≤-23.71	PASS
		High	2480	-3.58	-56.93	≤-23.58	PASS
		Low	Hop_2402	-7.08	-58.52	≤-27.08	PASS
		High	Hop_2480	-4.49	-56.69	≤-24.49	PASS

Test Graphs

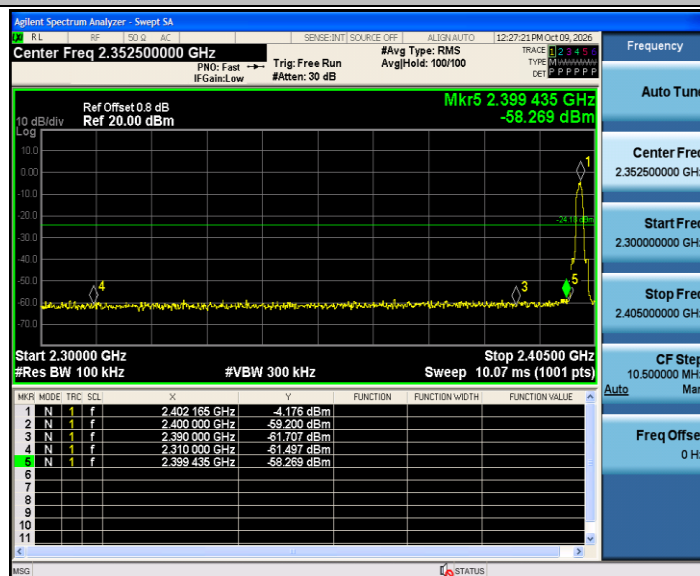




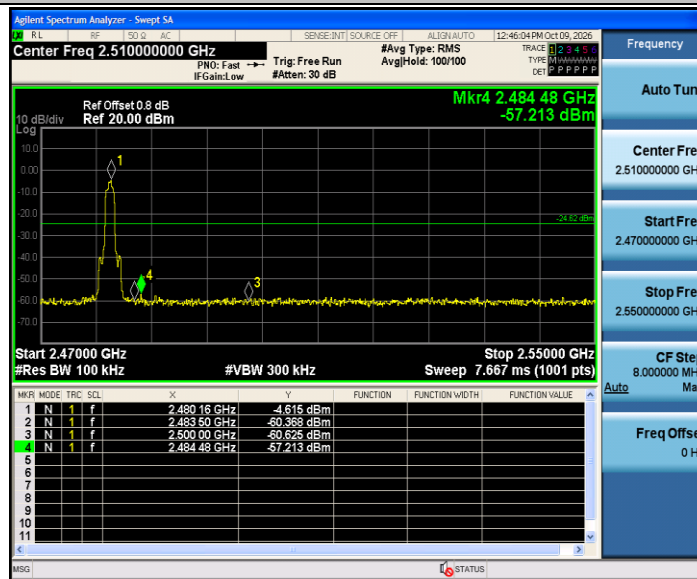
DH5_Ant1_High_Hop_2480



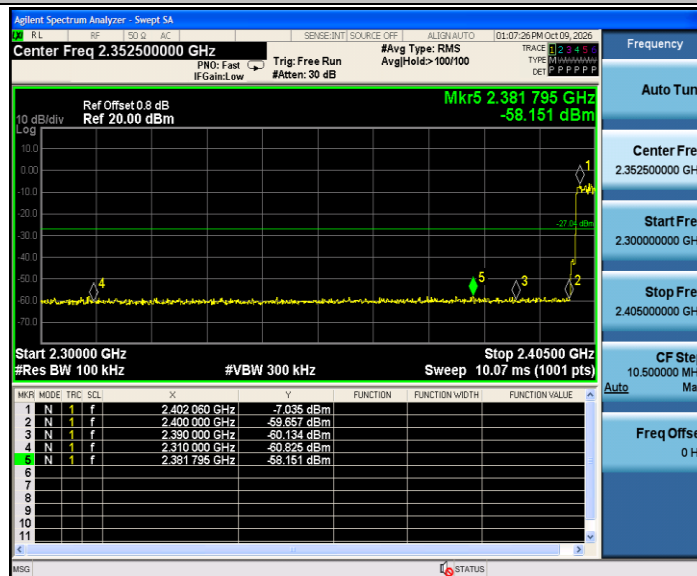
2DH5_Ant1_Low_2402



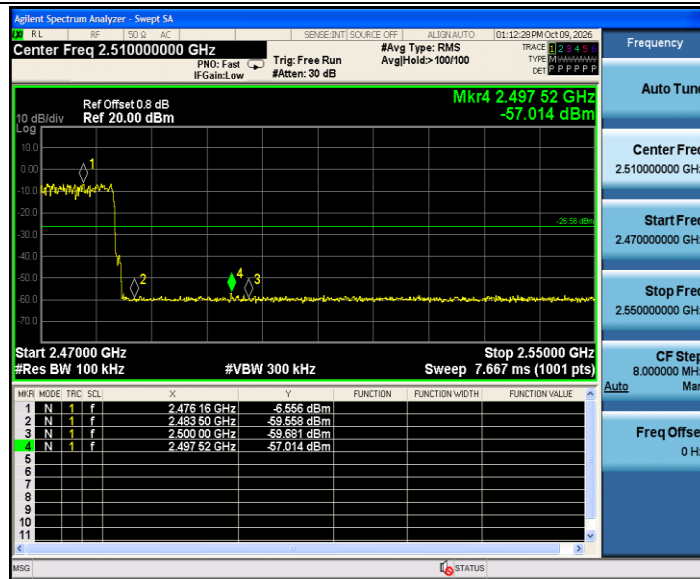
2DH5_Ant1_High_2480



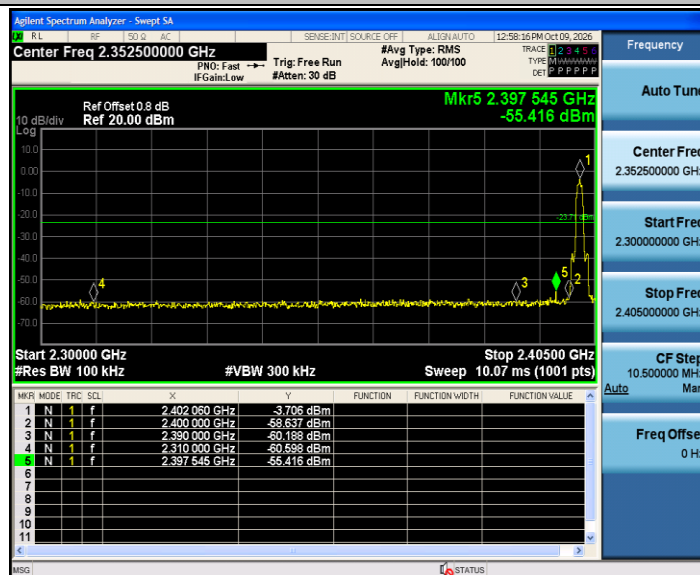
2DH5_Ant1_Low_Hop_2402



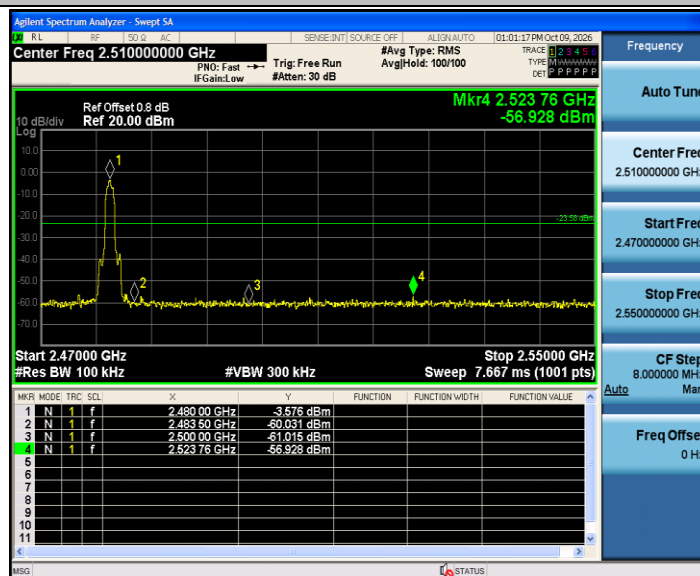
2DH5_Ant1_High_Hop_2480



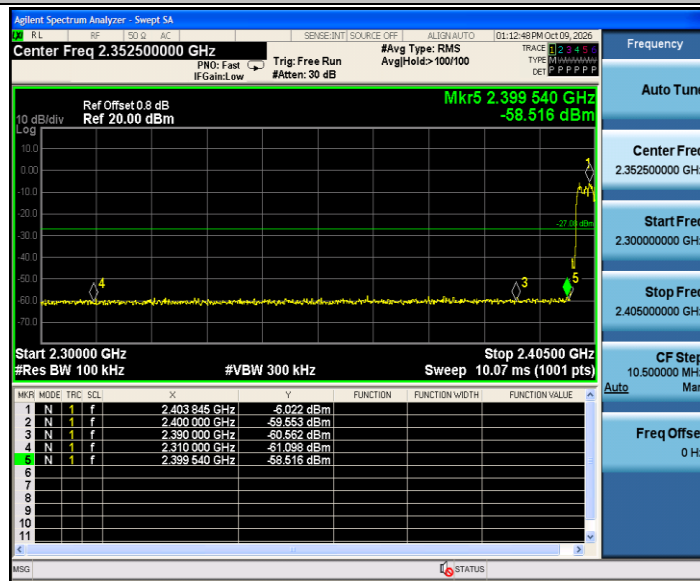
3DH5_Ant1_Low_2402



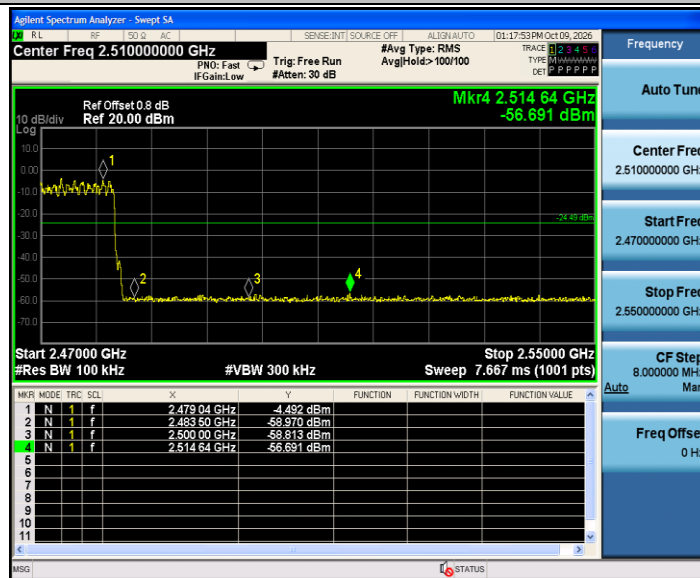
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

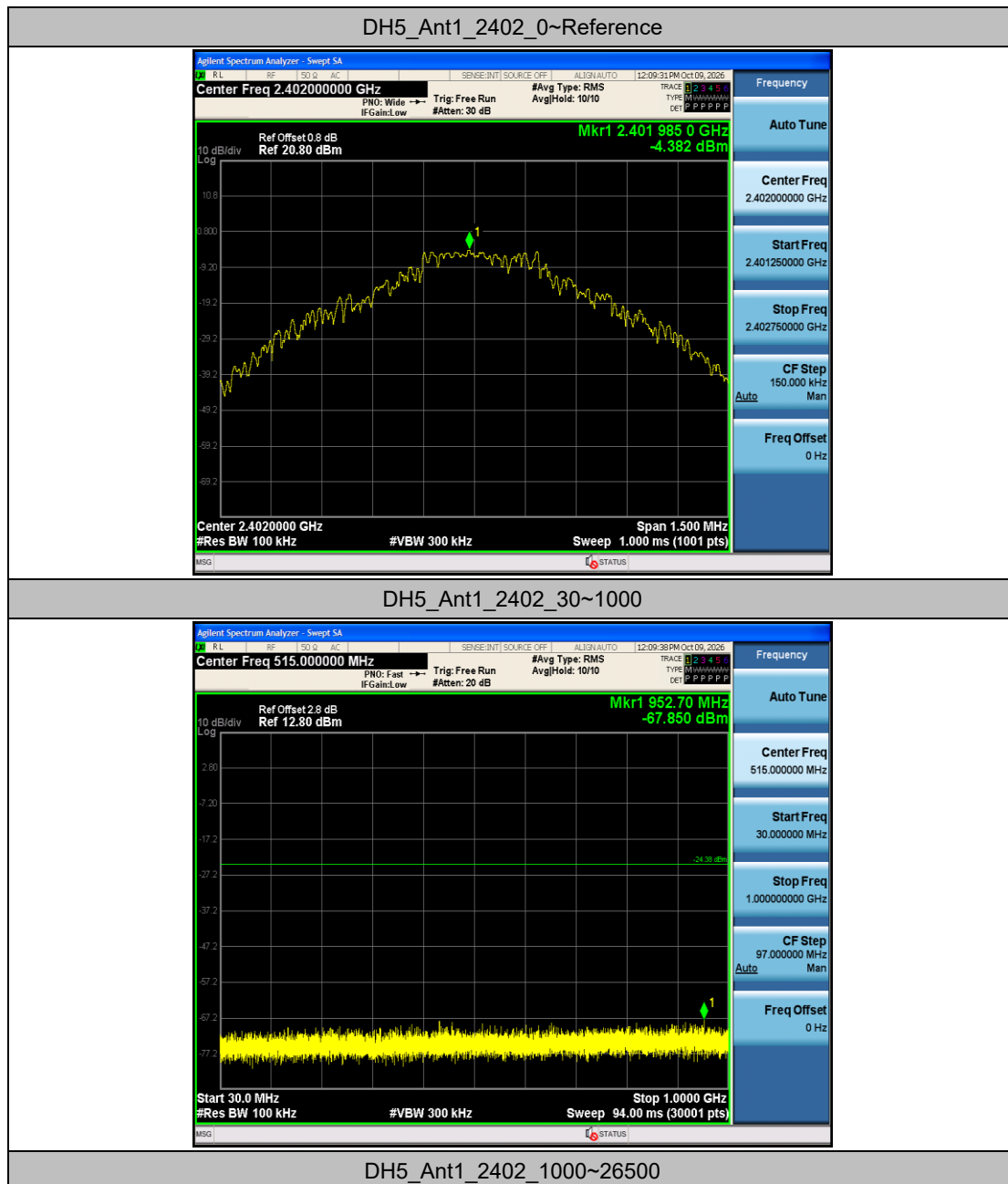


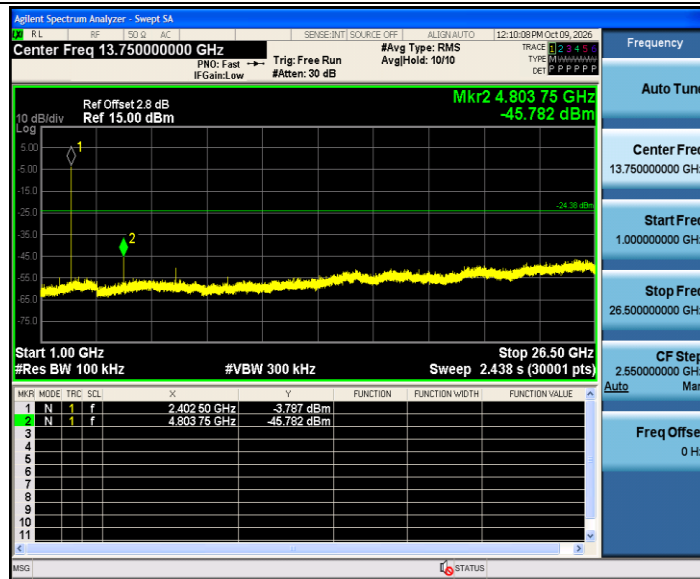
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.38	-4.38	---	PASS
			30~1000	-4.38	-67.85	≤-24.38	PASS
			1000~26500	-4.38	-45.78	≤-24.38	PASS
		2441	Reference	-4.65	-4.65	---	PASS
			30~1000	-4.65	-67.52	≤-24.65	PASS
			1000~26500	-4.65	-44.71	≤-24.65	PASS
		2480	Reference	-5.20	-5.20	---	PASS
			30~1000	-5.20	-68.02	≤-25.2	PASS
			1000~26500	-5.20	-46.67	≤-25.2	PASS
2DH5	Ant1	2402	Reference	-5.78	-5.78	---	PASS
			30~1000	-5.78	-68.34	≤-25.78	PASS
			1000~26500	-5.78	-46.03	≤-25.78	PASS
		2441	Reference	-6.76	-6.76	---	PASS
			30~1000	-6.76	-68.14	≤-26.76	PASS
			1000~26500	-6.76	-46.55	≤-26.76	PASS
		2480	Reference	-5.22	-5.22	---	PASS
			30~1000	-5.22	-68.29	≤-25.22	PASS
			1000~26500	-5.22	-46.44	≤-25.22	PASS
3DH5	Ant1	2402	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-66.49	≤-25.47	PASS
			1000~26500	-5.47	-46.01	≤-25.47	PASS
		2441	Reference	-5.13	-5.13	---	PASS
			30~1000	-5.13	-65.33	≤-25.13	PASS
			1000~26500	-5.13	-46.39	≤-25.13	PASS
		2480	Reference	-4.19	-4.19	---	PASS
			30~1000	-4.19	-68.26	≤-24.19	PASS
			1000~26500	-4.19	-46.8	≤-24.19	PASS

Test Graphs

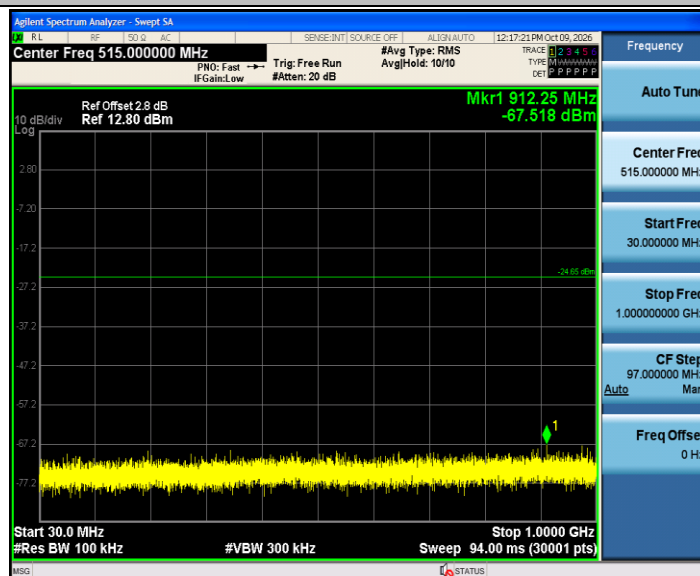




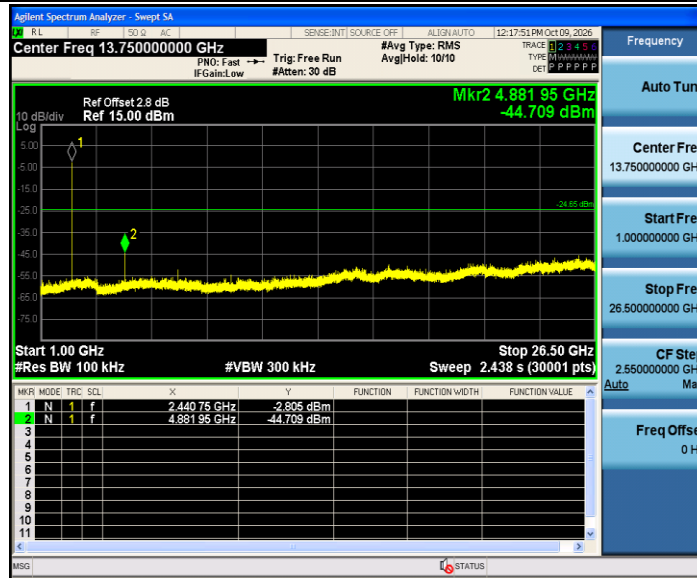
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



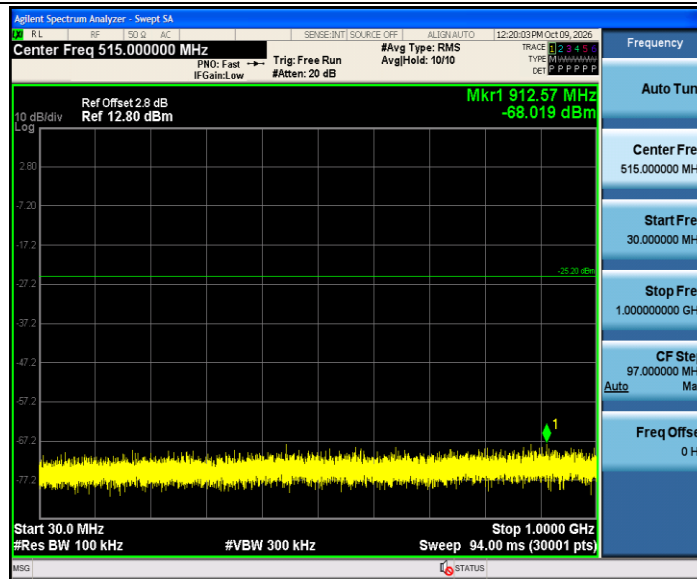
DH5_Ant1_2441_1000~26500



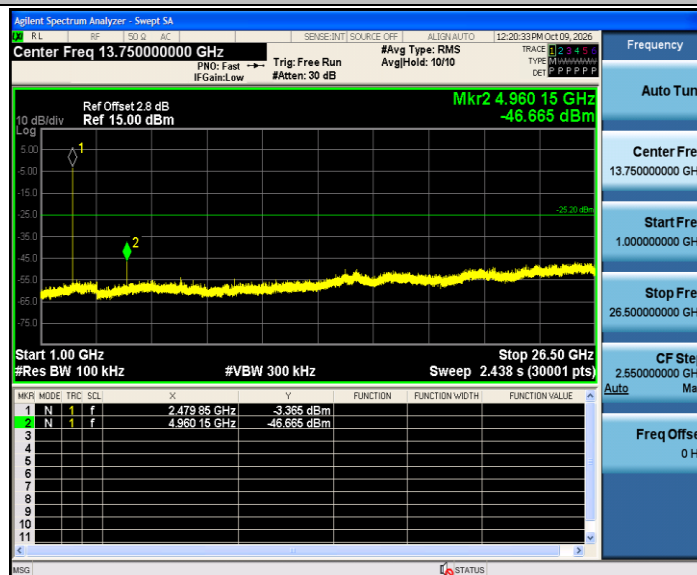
DH5_Ant1_2480_0~Reference



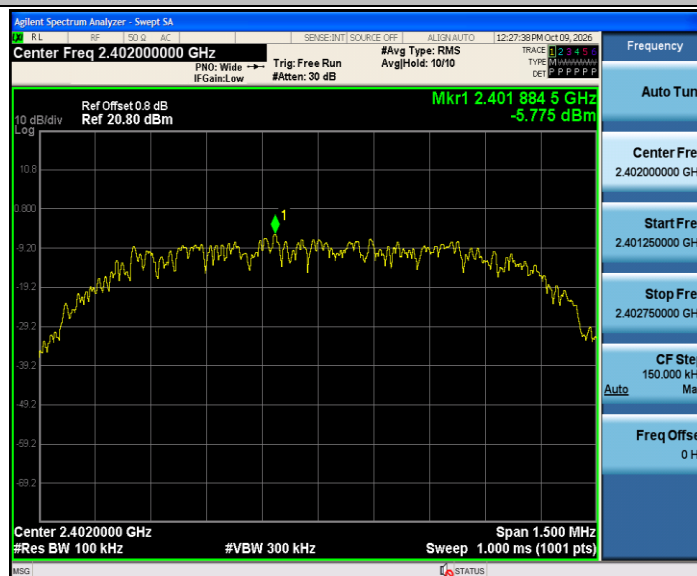
DH5_Ant1_2480_30~1000



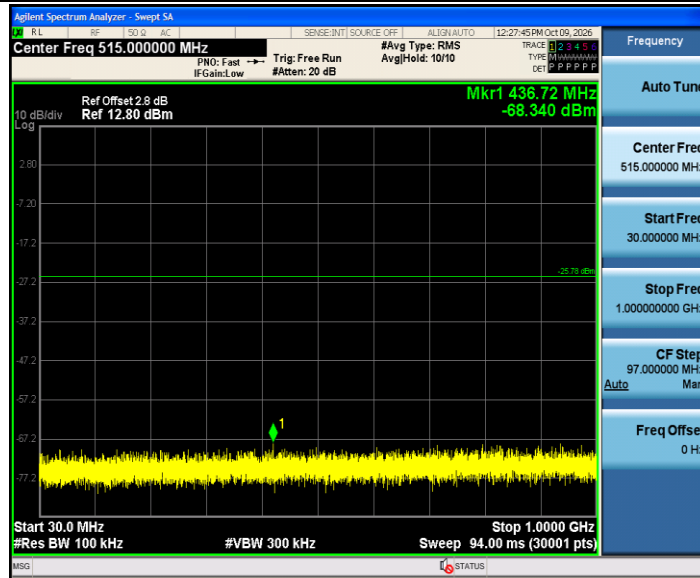
DH5_Ant1_2480_1000~26500



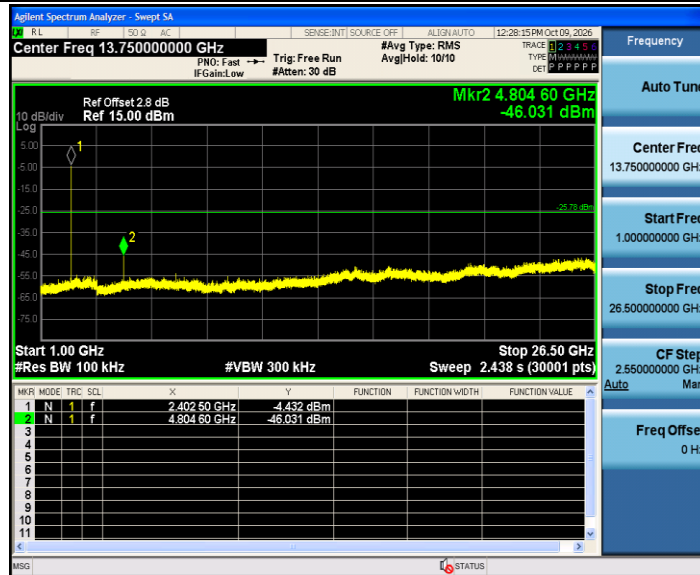
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference