

FCC Appendix RF Test Data for BT

FCC ID : 2BUMN-DY227

Company : DAZONE LLC

EUT : SPEAKER

Model Number : DY227

Report No. : CTA26010602101

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	0.954	2401.550	2402.504	---	---
		2441	0.951	2440.547	2441.498	---	---
		2480	0.948	2479.547	2480.495	---	---
2DH5	Ant1	2402	1.350	2401.334	2402.684	---	---
		2441	1.341	2440.337	2441.678	---	---
		2480	1.314	2479.352	2480.666	---	---
3DH5	Ant1	2402	1.287	2401.379	2402.666	---	---
		2441	1.329	2440.343	2441.672	---	---
		2480	1.338	2479.340	2480.678	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441





3DH5_Ant1_2480

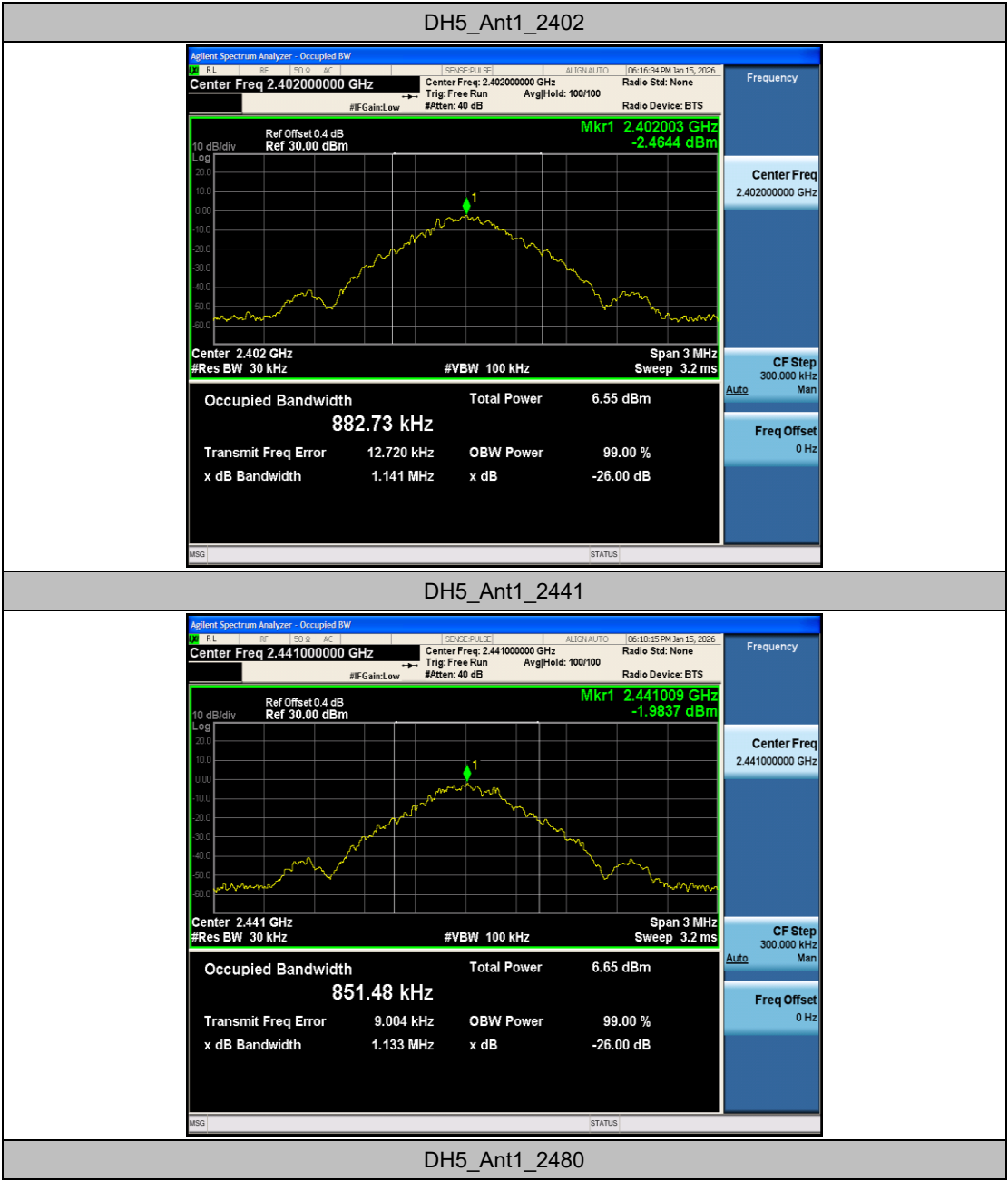


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88273	2401.5714	2402.4541	---	---
		2441	0.85148	2440.5833	2441.4347	---	---
		2480	0.86461	2479.5780	2480.4426	---	---
2DH5	Ant1	2402	1.1939	2401.4142	2402.6081	---	---
		2441	1.1908	2440.4146	2441.6054	---	---
		2480	1.1944	2479.4142	2480.6086	---	---
3DH5	Ant1	2402	1.1863	2401.4176	2402.6039	---	---
		2441	1.1894	2440.4165	2441.6059	---	---
		2480	1.1939	2479.4138	2480.6077	---	---

Test Graphs





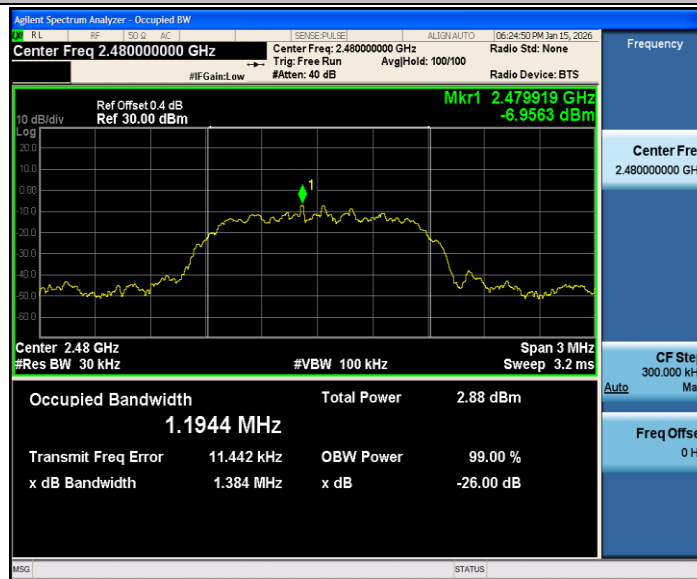
2DH5_Ant1_2402



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	0.23	≤20.97	PASS
		2441	-0.10	≤20.97	PASS
		2480	-0.09	≤20.97	PASS
2DH5	Ant1	2402	-0.70	≤20.97	PASS
		2441	-0.96	≤20.97	PASS
		2480	-1.13	≤20.97	PASS
3DH5	Ant1	2402	-0.67	≤20.97	PASS
		2441	-0.92	≤20.97	PASS
		2480	-1.06	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.982	≥ 0.954	PASS
2DH5	Ant1	Hop	1.134	≥ 0.900	PASS
3DH5	Ant1	Hop	0.986	≥ 0.892	PASS

Test Graphs



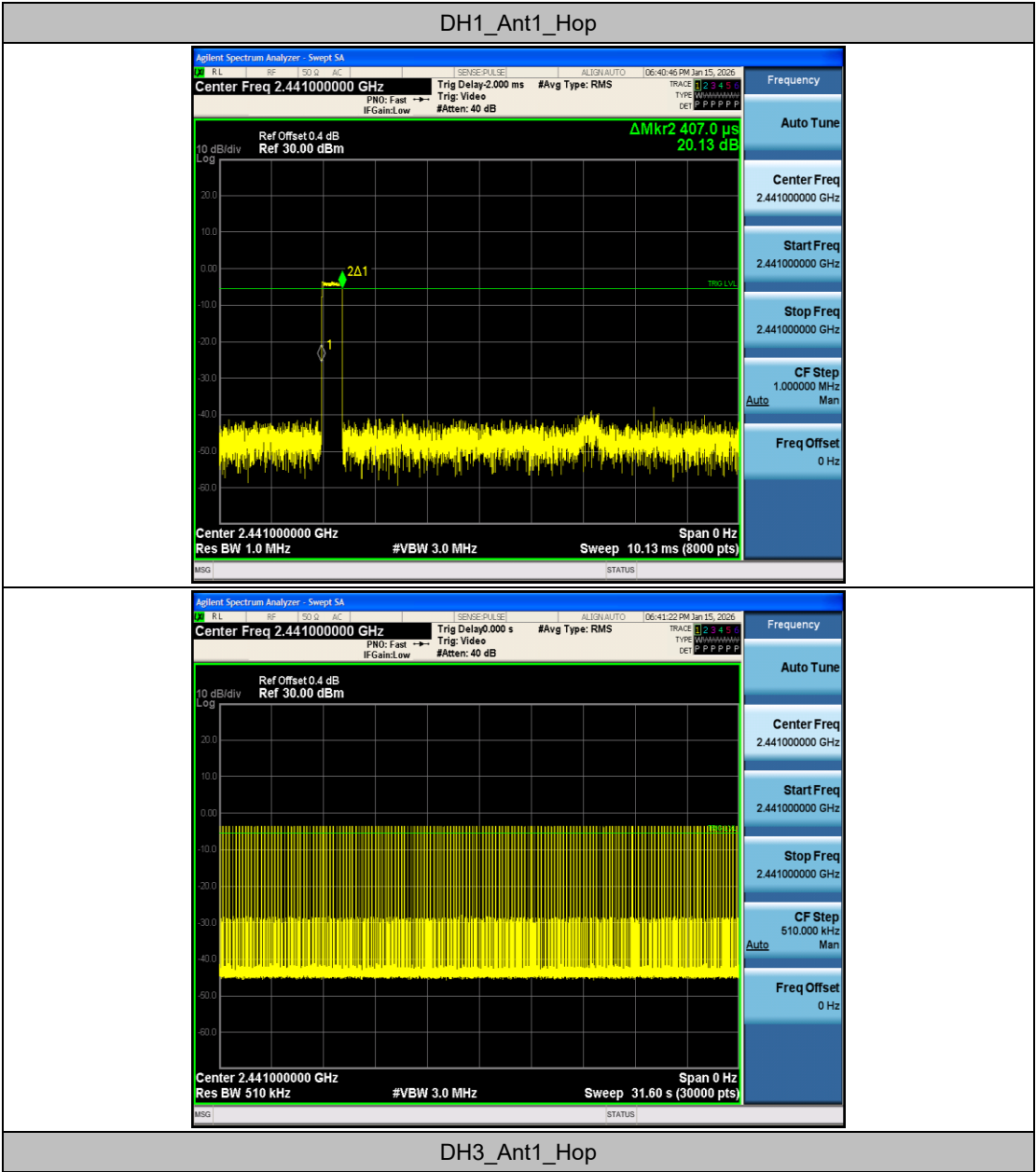


Appendix E: Time of occupancy

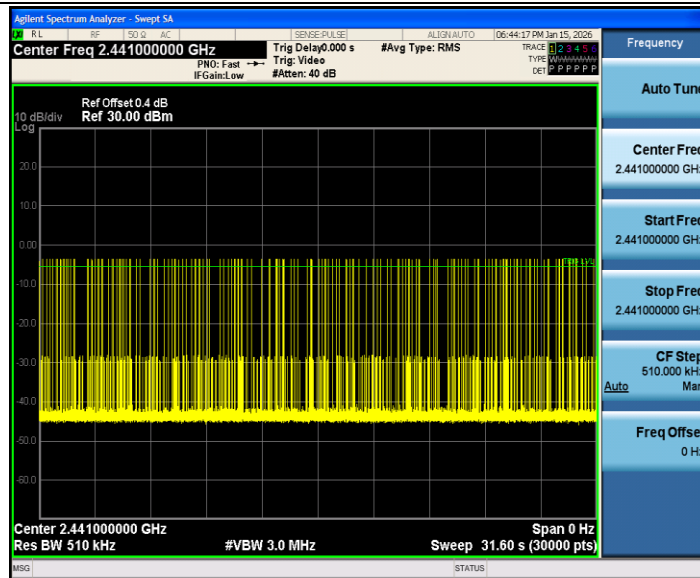
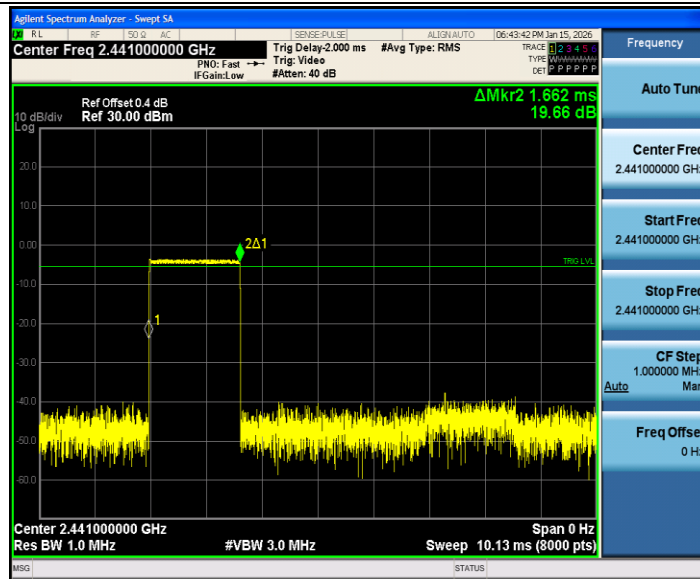
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	165	0.274	≤0.4	PASS
DH5	Ant1	Hop	2.910	103	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
2DH3	Ant1	Hop	1.662	156	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.915	101	0.294	≤0.4	PASS
3DH1	Ant1	Hop	0.407	318	0.129	≤0.4	PASS
3DH3	Ant1	Hop	1.662	161	0.268	≤0.4	PASS
3DH5	Ant1	Hop	2.915	113	0.329	≤0.4	PASS

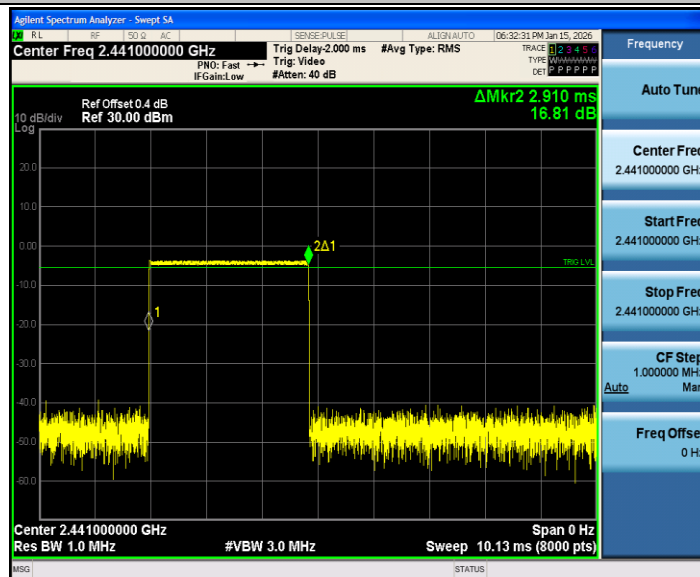
Test Graphs

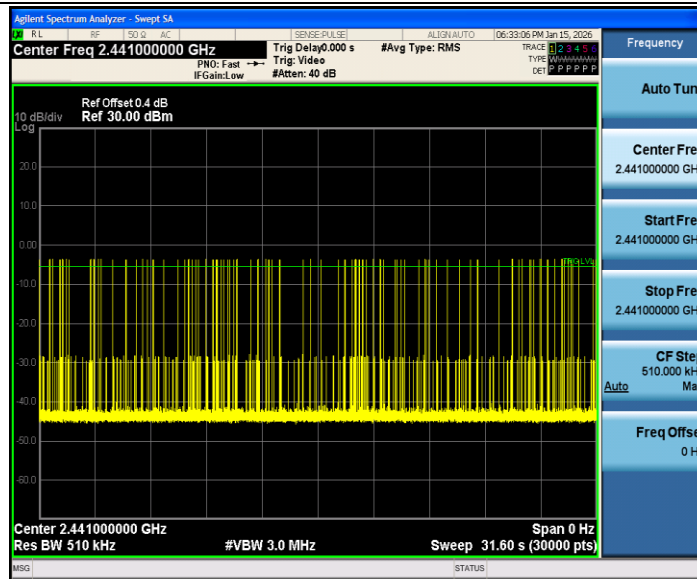


DH3_Ant1_Hop

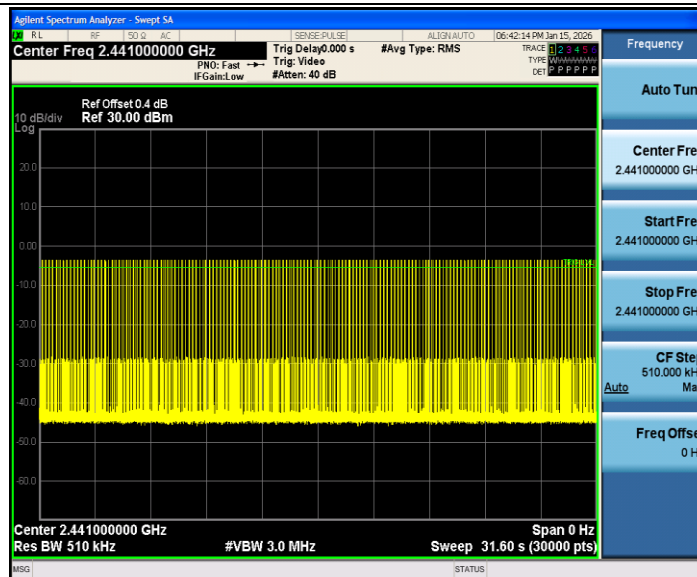
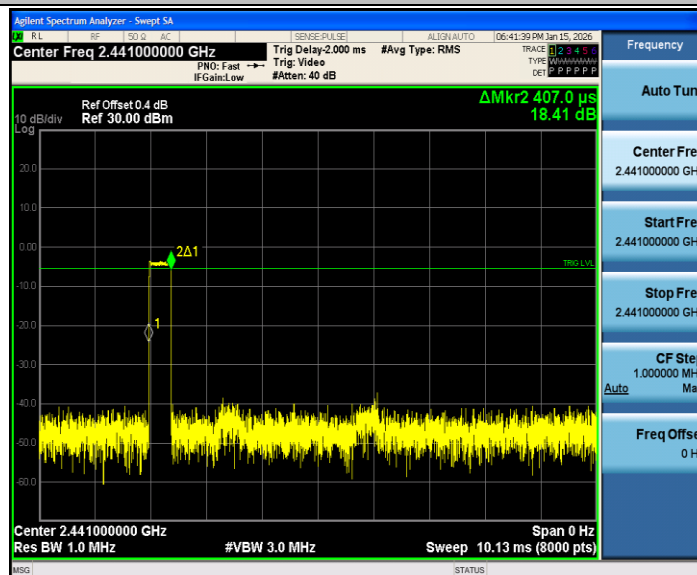


DH5_Ant1_Hop

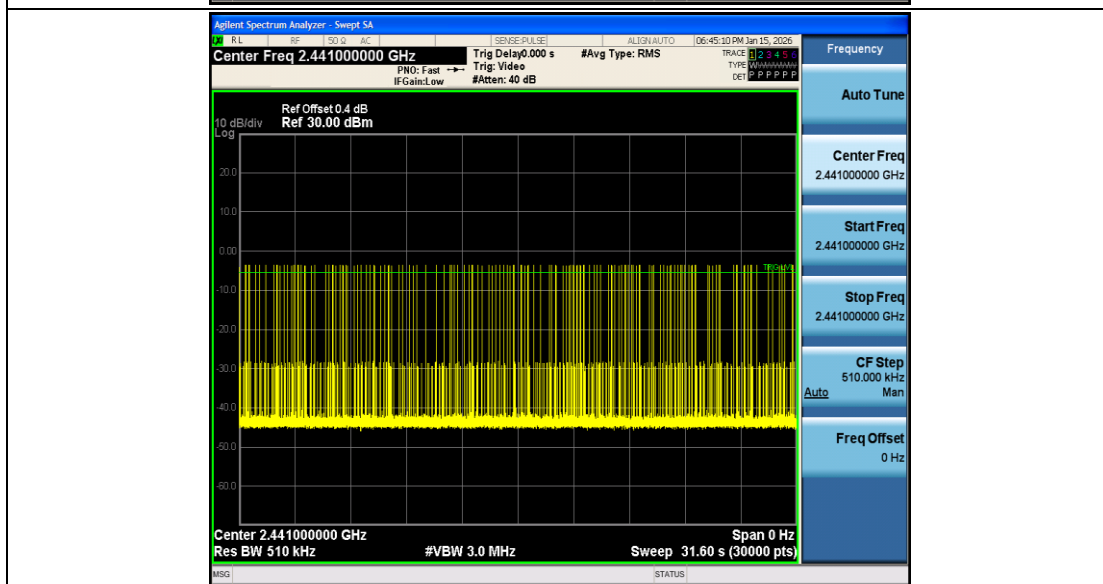
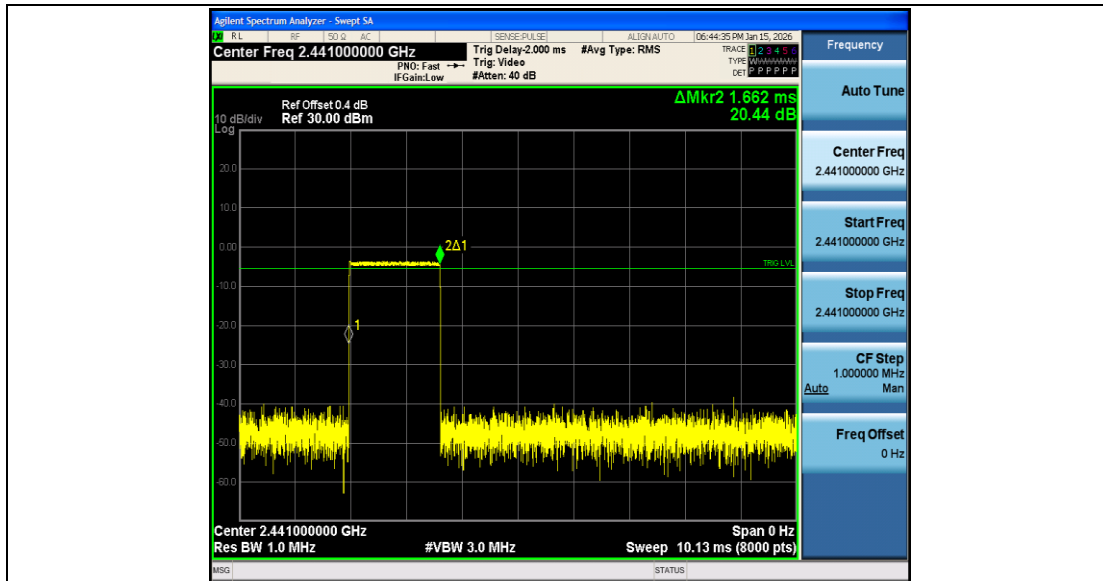




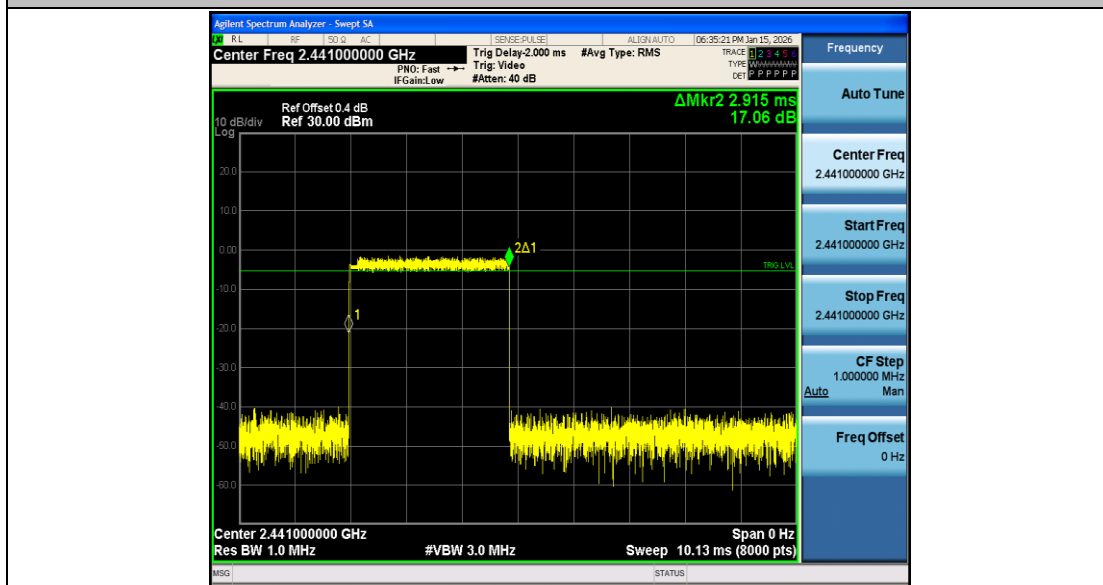
2DH1_Ant1_Hop

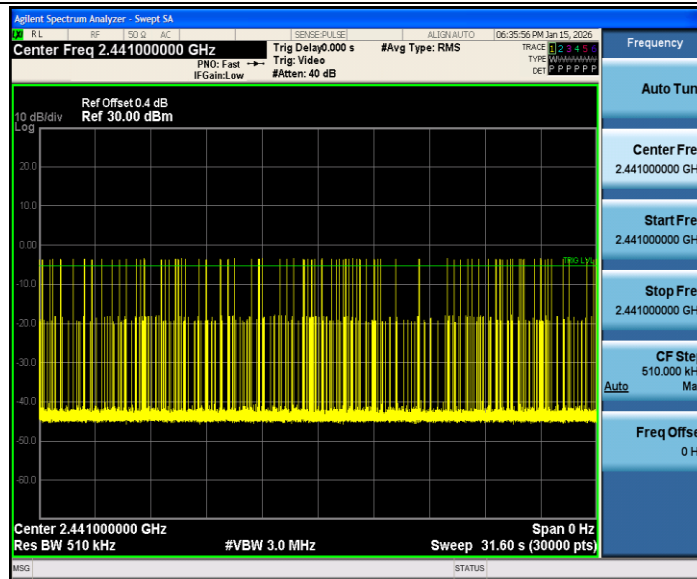


2DH3_Ant1_Hop

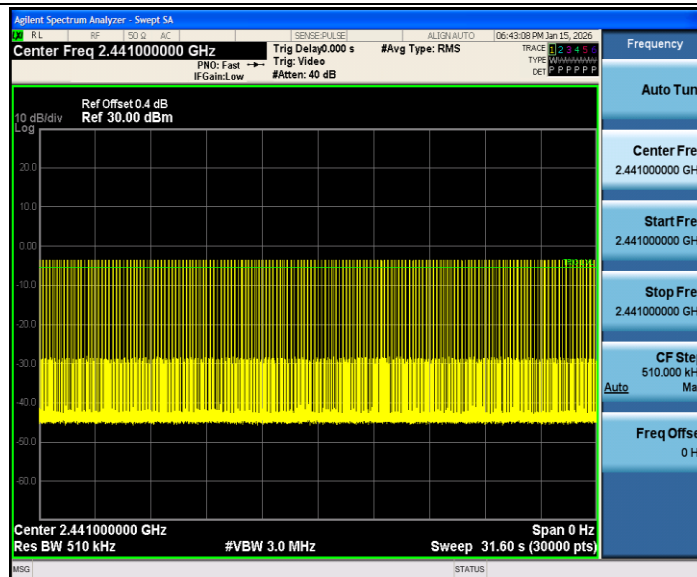
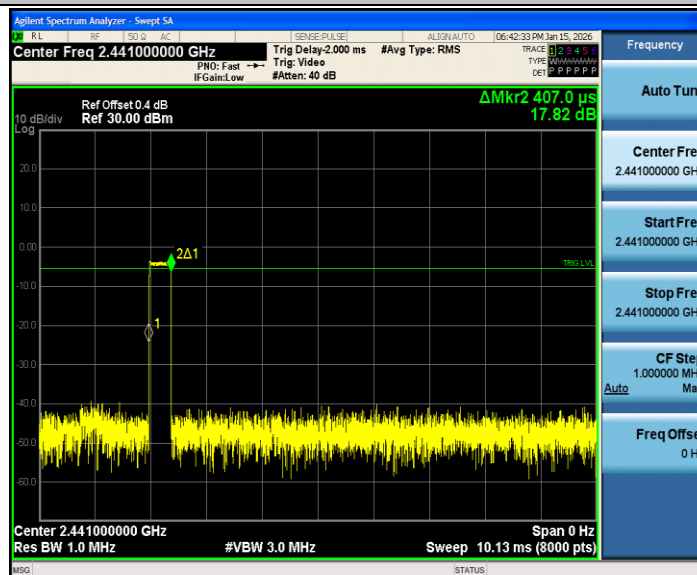


2DH5_Ant1_Hop

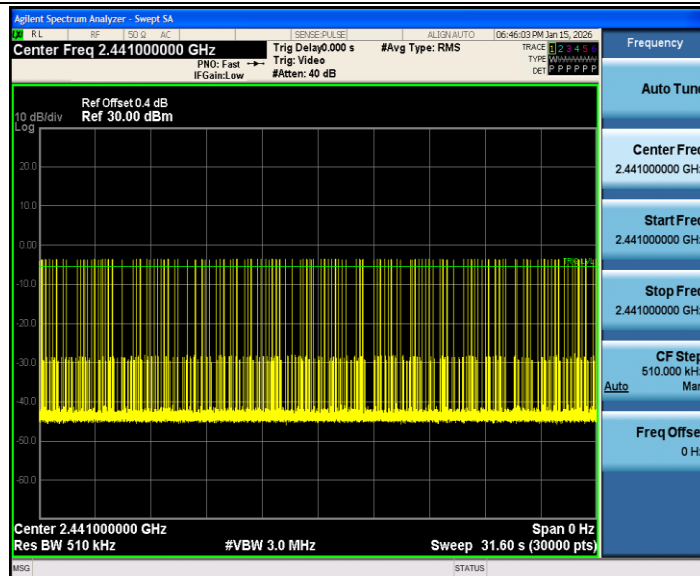
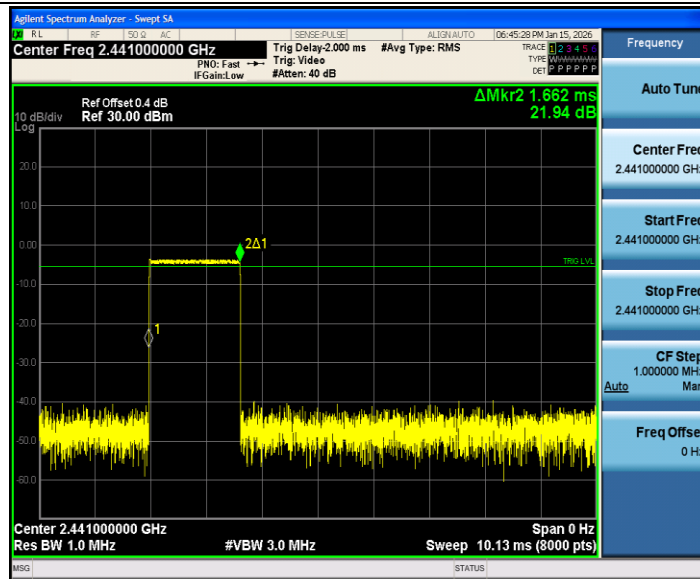




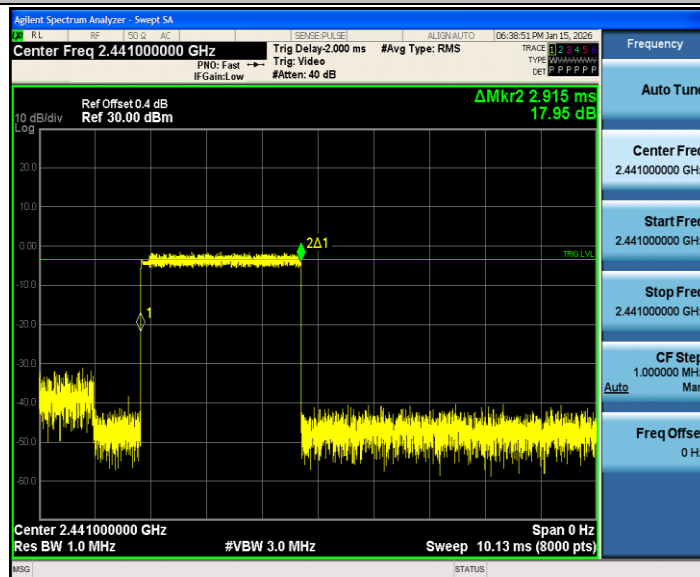
3DH1_Ant1_Hop

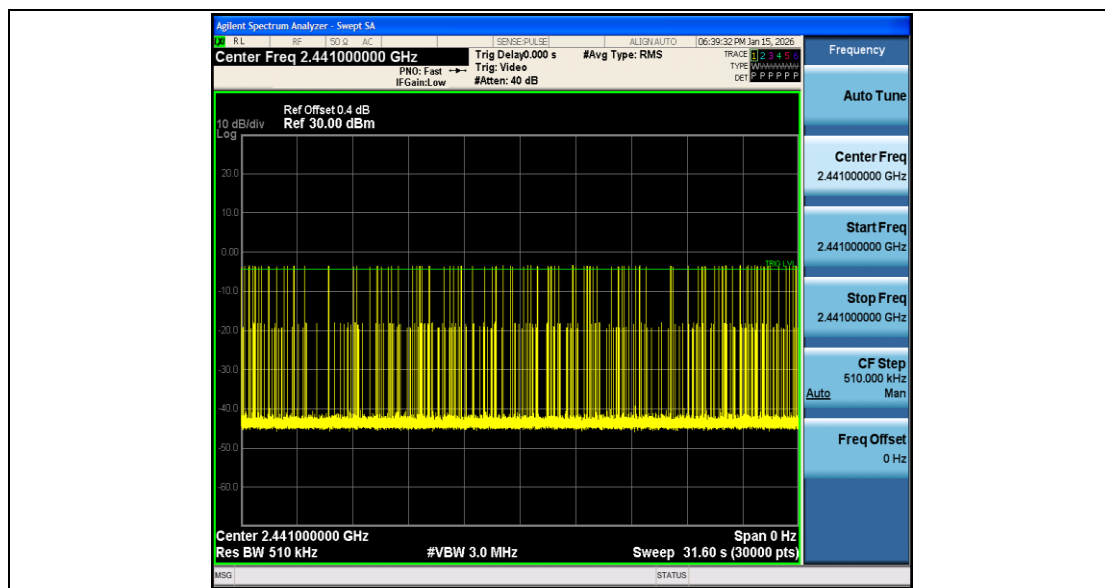


3DH3_Ant1_Hop



3DH5_Ant1_Hop



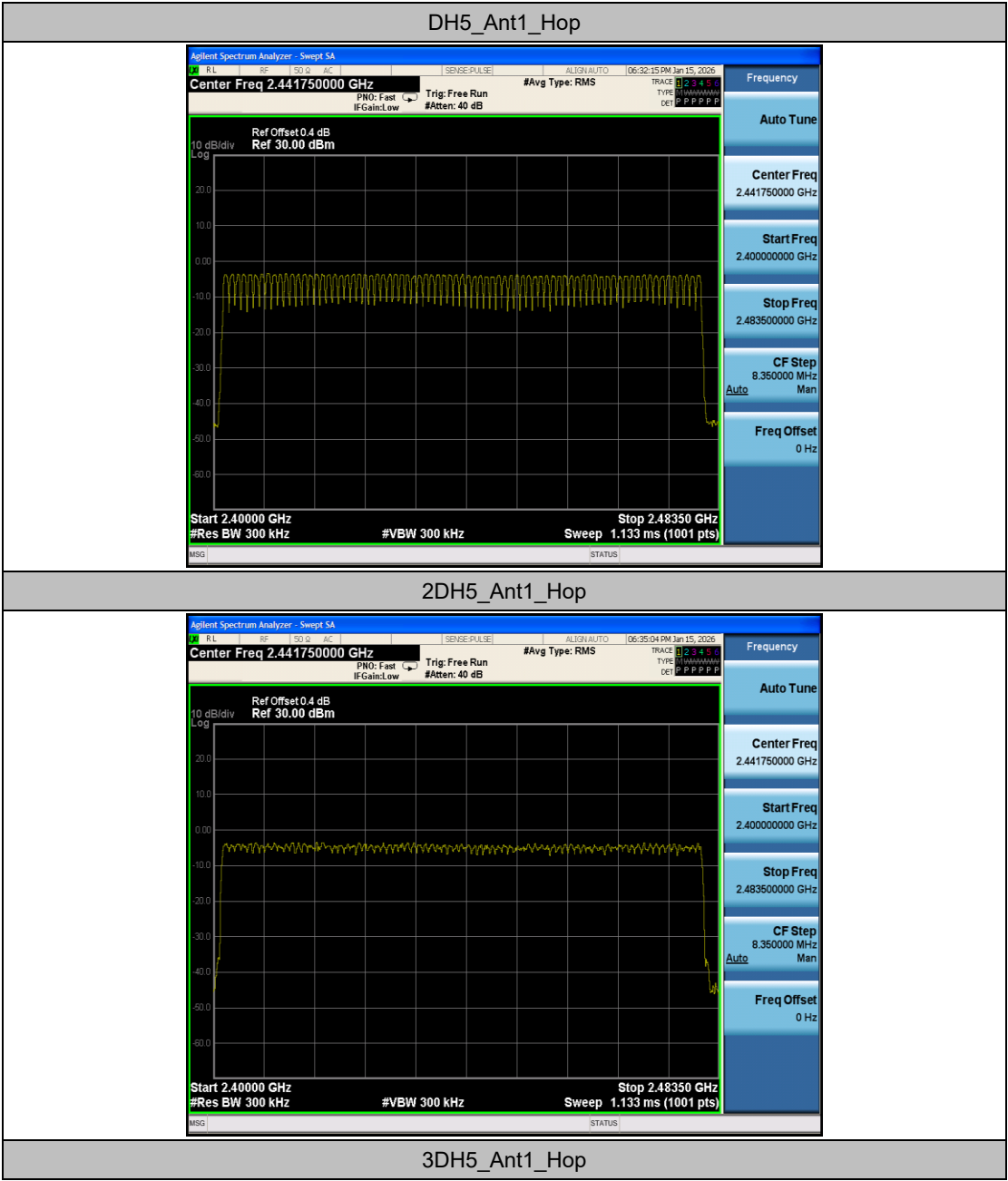


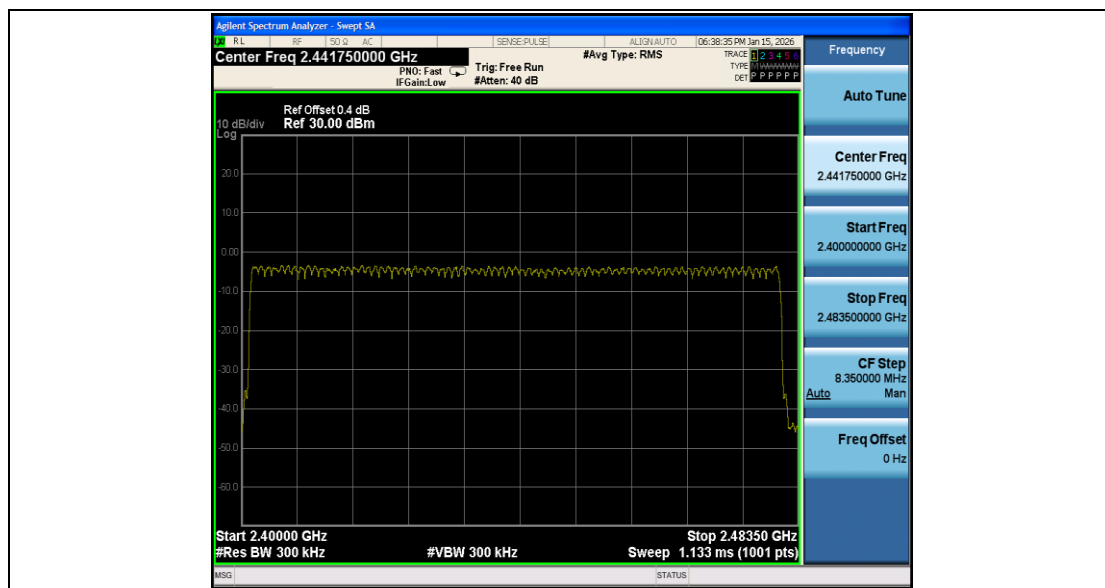
Appendix F: Number of hopping channels

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



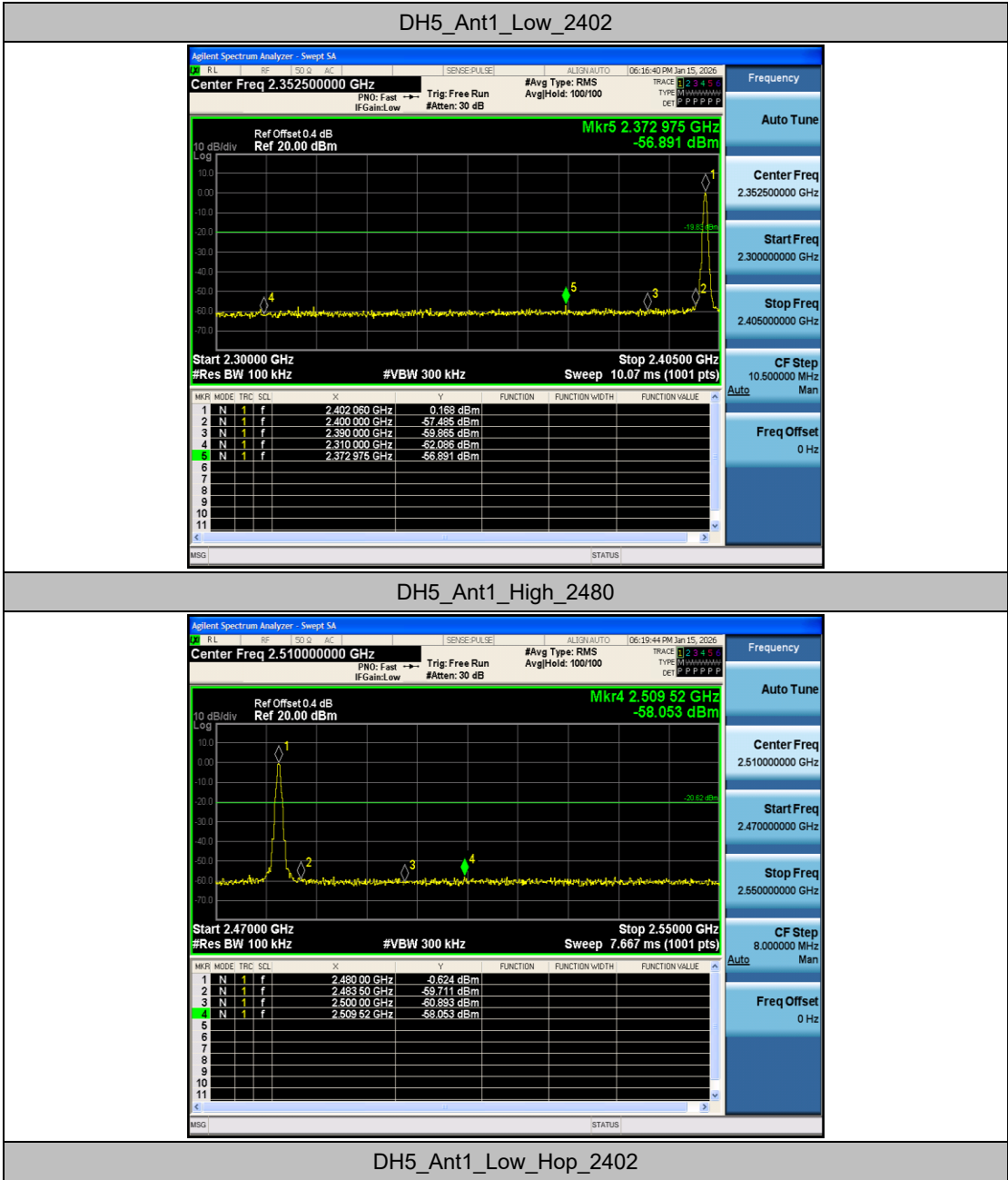


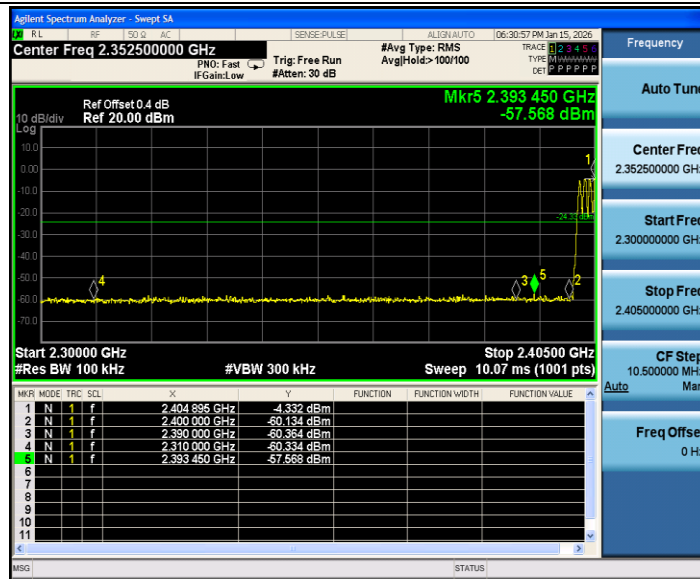
Appendix G: Band edge measurements

Test Result

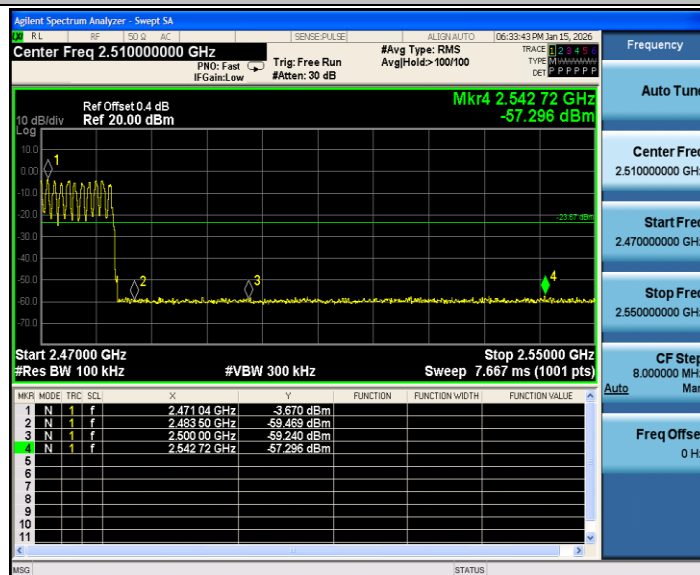
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.17	-56.89	≤-19.83	PASS
		High	2480	-0.62	-58.05	≤-20.62	PASS
		Low	Hop_2402	-4.33	-57.57	≤-24.33	PASS
		High	Hop_2480	-3.67	-57.3	≤-23.67	PASS
2DH5	Ant1	Low	2402	-4.87	-56.25	≤-24.87	PASS
		High	2480	-3.82	-57.66	≤-23.82	PASS
		Low	Hop_2402	-4.49	-57.62	≤-24.49	PASS
		High	Hop_2480	-4.16	-56.93	≤-24.16	PASS
3DH5	Ant1	Low	2402	-4.59	-53.09	≤-24.59	PASS
		High	2480	-3.78	-56.41	≤-23.78	PASS
		Low	Hop_2402	-3.39	-57.19	≤-23.39	PASS
		High	Hop_2480	-4.40	-56.04	≤-24.4	PASS

Test Graphs

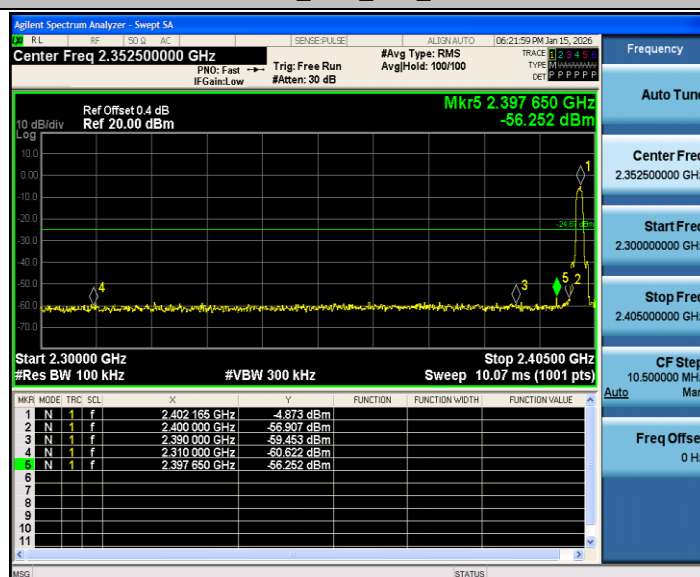




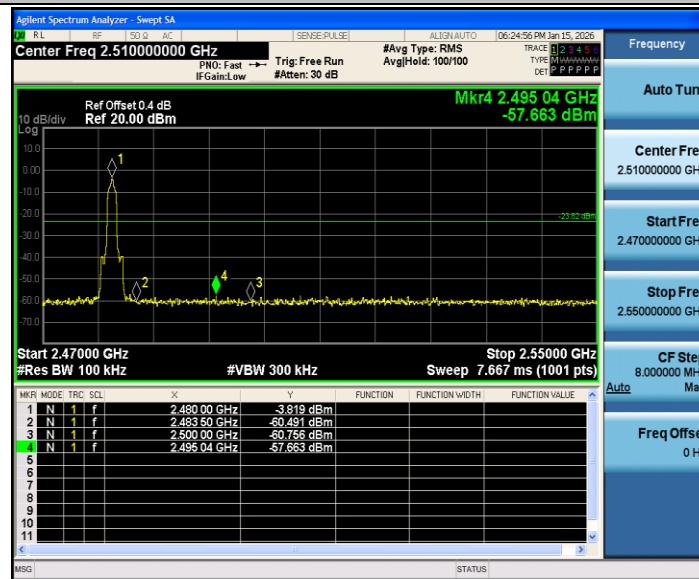
DH5_Ant1_High_Hop_2480



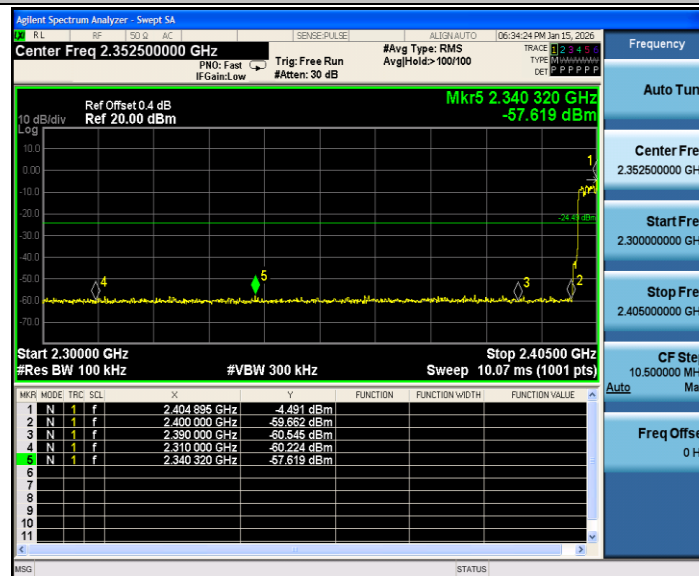
2DH5_Ant1_Low_2402



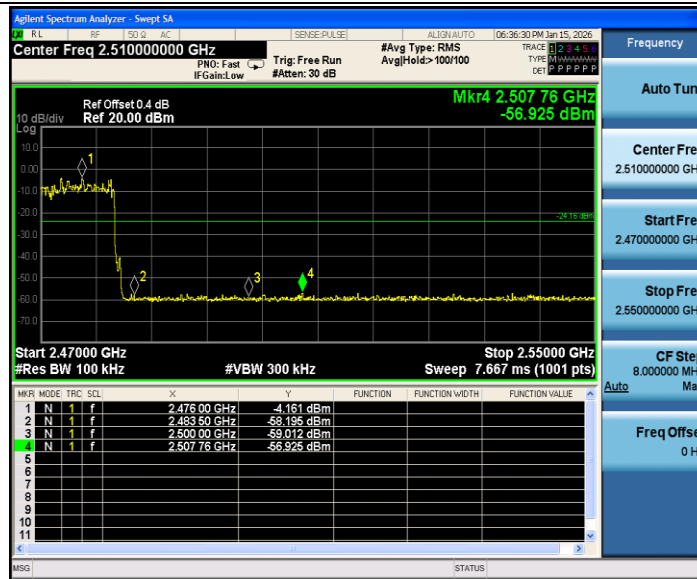
2DH5_Ant1_High_2480



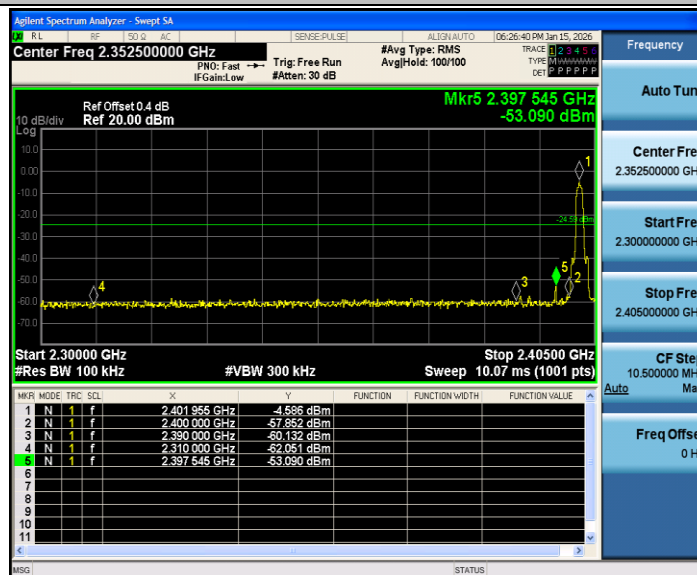
2DH5_Ant1_Low_Hop_2402



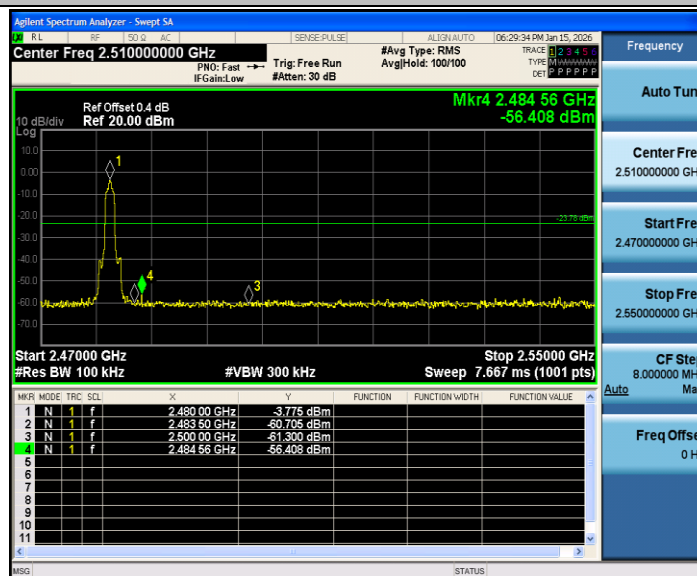
2DH5_Ant1_High_Hop_2480



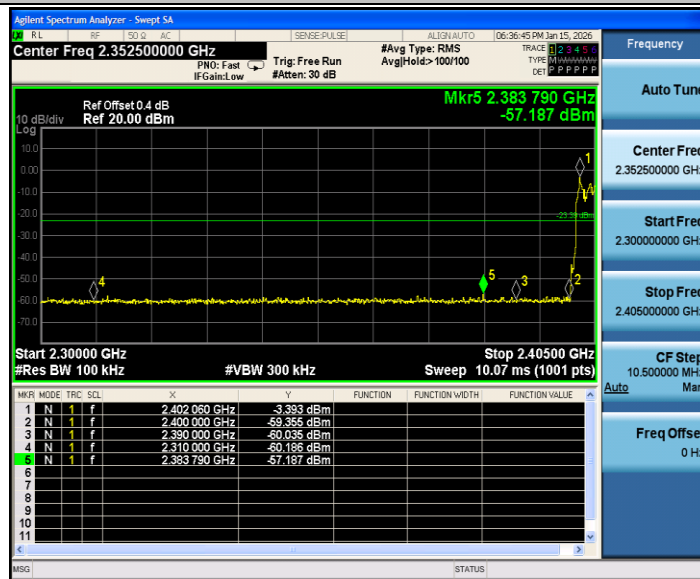
3DH5_Ant1_Low_2402



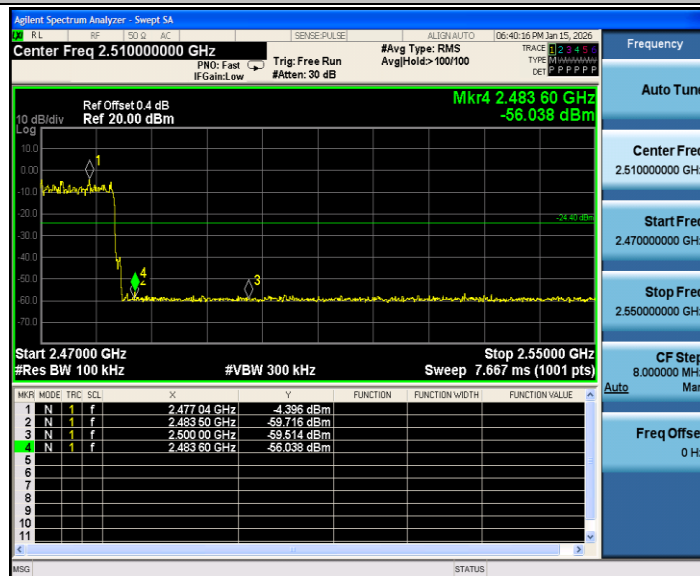
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

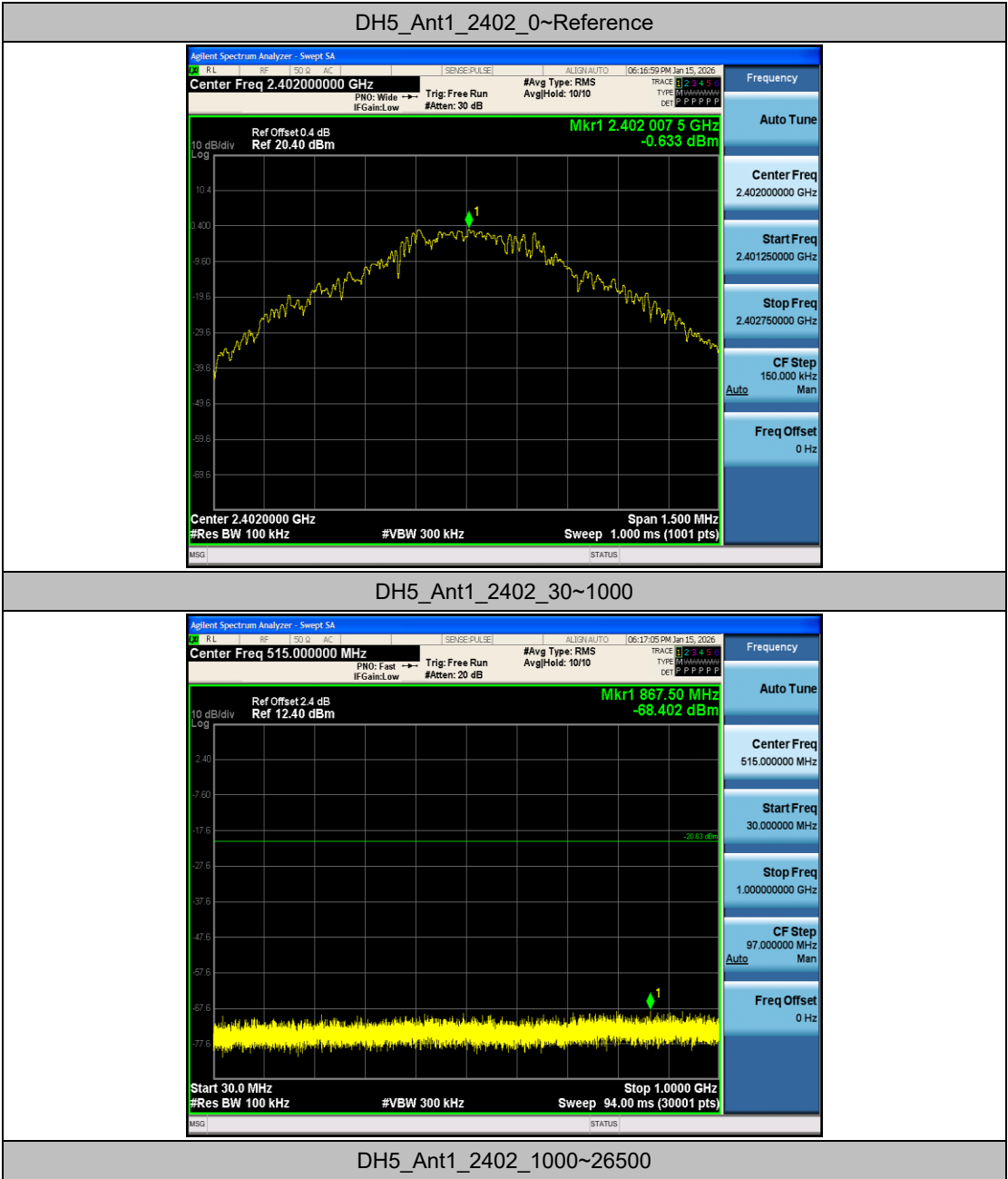


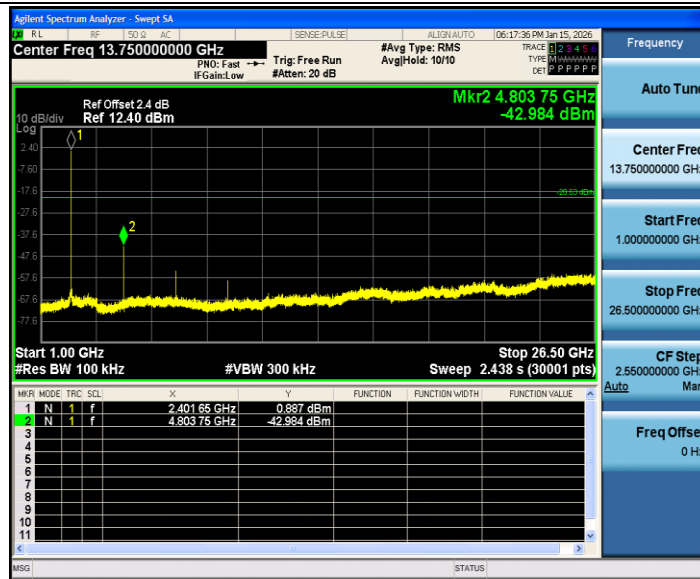
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.63	-0.63	---	PASS
			30~1000	-0.63	-68.4	≤-20.63	PASS
			1000~26500	-0.63	-42.98	≤-20.63	PASS
		2441	Reference	-1.13	-1.13	---	PASS
			30~1000	-1.13	-68.02	≤-21.13	PASS
			1000~26500	-1.13	-44.45	≤-21.13	PASS
		2480	Reference	-1.23	-1.23	---	PASS
			30~1000	-1.23	-67.13	≤-21.23	PASS
			1000~26500	-1.23	-34.1	≤-21.23	PASS
2DH5	Ant1	2402	Reference	-6.21	-6.21	---	PASS
			30~1000	-6.21	-67.4	≤-26.21	PASS
			1000~26500	-6.21	-50.6	≤-26.21	PASS
		2441	Reference	-6.84	-6.84	---	PASS
			30~1000	-6.84	-68	≤-26.84	PASS
			1000~26500	-6.84	-51.33	≤-26.84	PASS
		2480	Reference	-6.18	-6.18	---	PASS
			30~1000	-6.18	-68.28	≤-26.18	PASS
			1000~26500	-6.18	-47.61	≤-26.18	PASS
3DH5	Ant1	2402	Reference	-6.18	-6.18	---	PASS
			30~1000	-6.18	-67.83	≤-26.18	PASS
			1000~26500	-6.18	-48.37	≤-26.18	PASS
		2441	Reference	-5.73	-5.73	---	PASS
			30~1000	-5.73	-68.48	≤-25.73	PASS
			1000~26500	-5.73	-49.82	≤-25.73	PASS
		2480	Reference	-5.49	-5.49	---	PASS
			30~1000	-5.49	-68.1	≤-25.49	PASS
			1000~26500	-5.49	-46.61	≤-25.49	PASS

Test Graphs

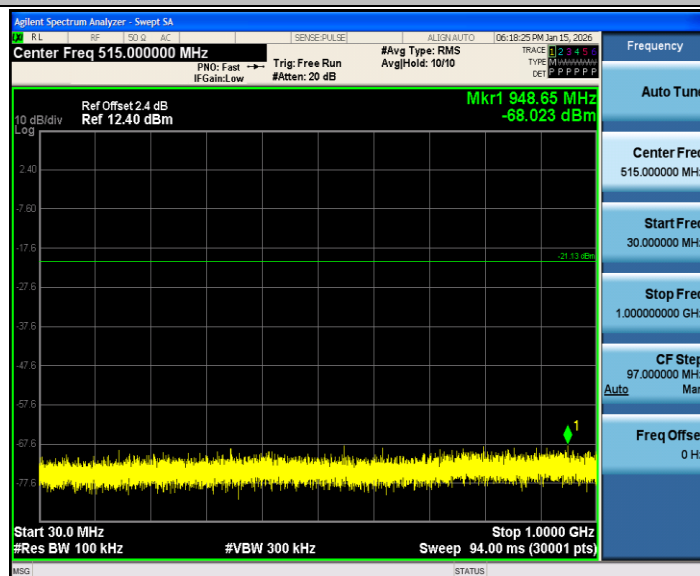




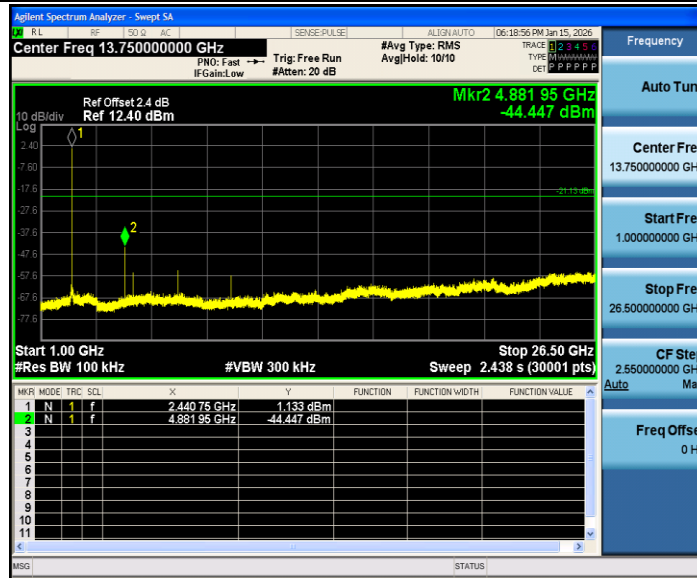
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



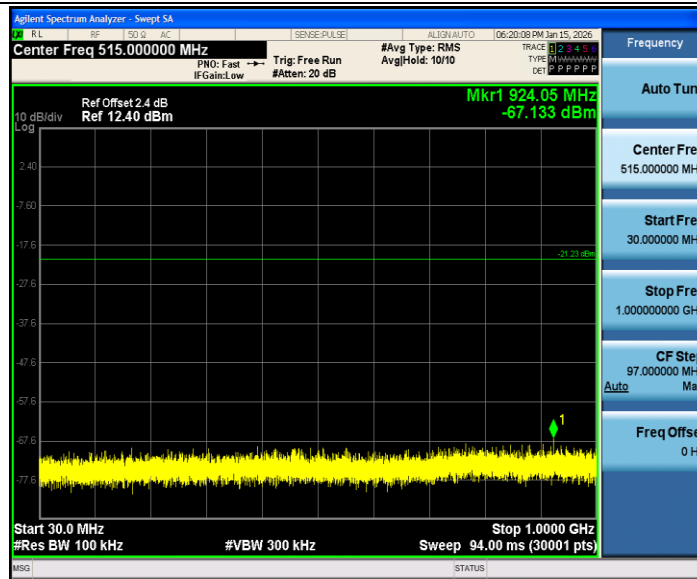
DH5_Ant1_2441_1000~26500



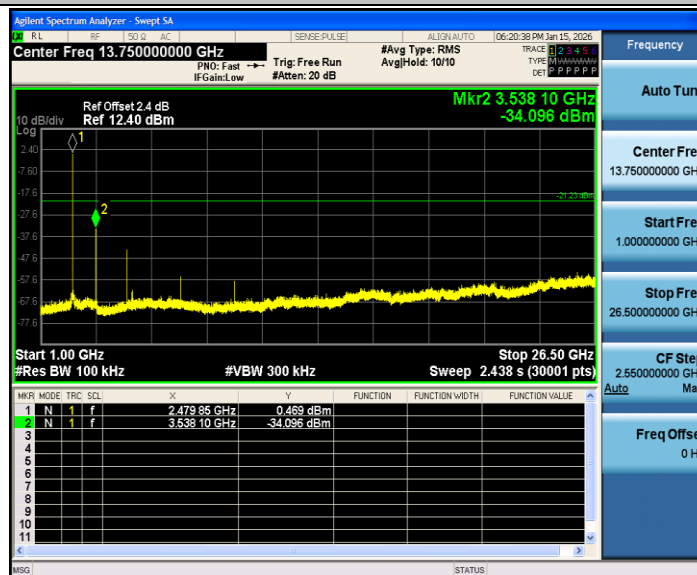
DH5_Ant1_2480_0~Reference



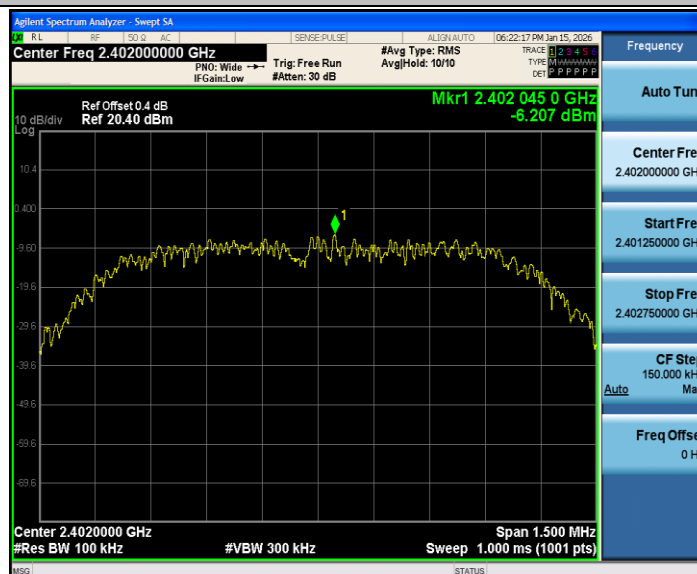
DH5_Ant1_2480_30~1000



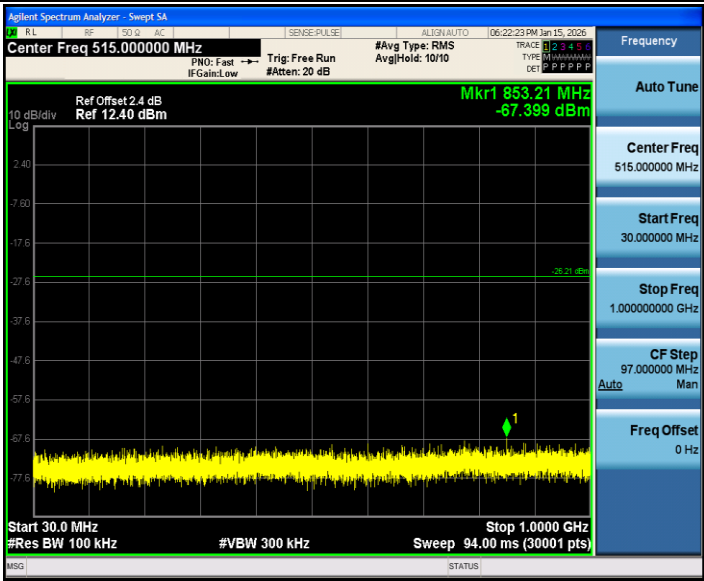
DH5_Ant1_2480_1000~26500



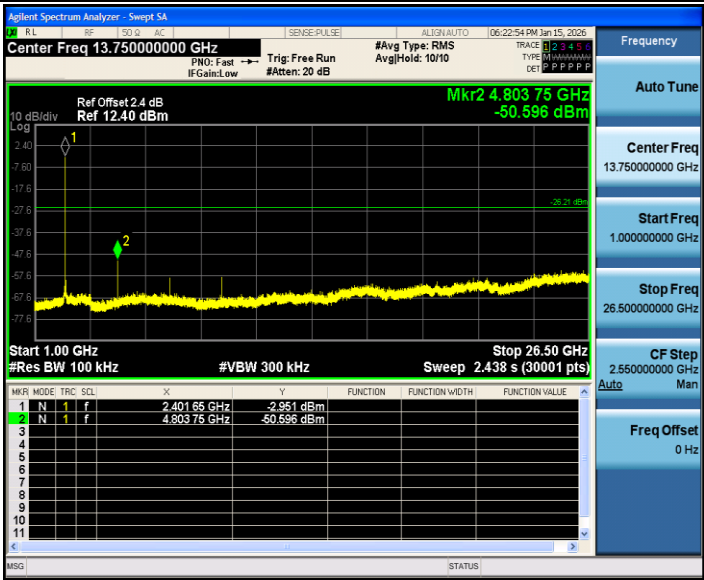
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference