

FCC Appendix RF Test Data for BT

FCC ID : 2BUQ7-HS-AS1

Company : HISONG Music Technology Inc.

EUT : HISONG AirStudio S1

Model Number : HS-AS1

Report No. : CTA26011901202

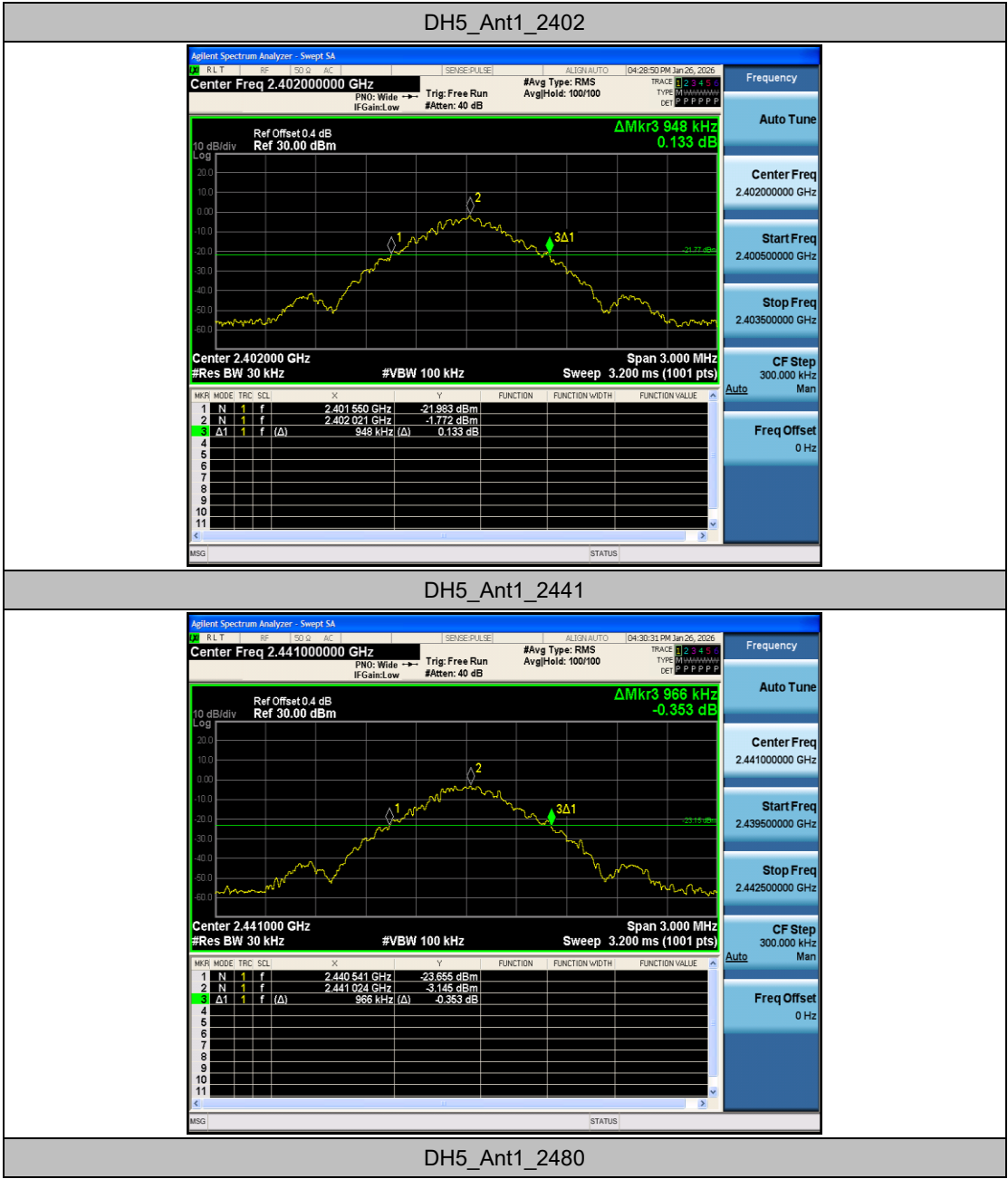
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.550	2402.498	---	---
		2441	0.966	2440.541	2441.507	---	---
		2480	0.957	2479.550	2480.507	---	---
2DH5	Ant1	2402	1.338	2401.343	2402.681	---	---
		2441	1.287	2440.379	2441.666	---	---
		2480	1.317	2479.355	2480.672	---	---
3DH5	Ant1	2402	1.323	2401.346	2402.669	---	---
		2441	1.323	2440.349	2441.672	---	---
		2480	1.317	2479.352	2480.669	---	---

Test Graphs





2DHS_Ant1_2402



2DHS_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	0.85299	2401.5826	2402.4356	---	---
		2441	0.85066	2440.5794	2441.4301	---	---
		2480	0.86342	2479.5806	2480.4441	---	---
2DH5	Ant1	2402	1.1828	2401.4188	2402.6016	---	---
		2441	1.1860	2440.4165	2441.6025	---	---
		2480	1.1929	2479.4163	2480.6092	---	---
3DH5	Ant1	2402	1.1885	2401.4179	2402.6064	---	---
		2441	1.1885	2440.4164	2441.6049	---	---
		2480	1.2016	2479.4110	2480.6126	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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	0.06	≤20.97	PASS
		2441	-0.09	≤20.97	PASS
		2480	-0.05	≤20.97	PASS
2DH5	Ant1	2402	-0.83	≤20.97	PASS
		2441	-0.92	≤20.97	PASS
		2480	-0.98	≤20.97	PASS
3DH5	Ant1	2402	-0.84	≤20.97	PASS
		2441	-1.04	≤20.97	PASS
		2480	-0.91	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.988	≥ 0.644	PASS
2DH5	Ant1	Hop	1.046	≥ 0.892	PASS
3DH5	Ant1	Hop	0.988	≥ 0.882	PASS

Test Graphs



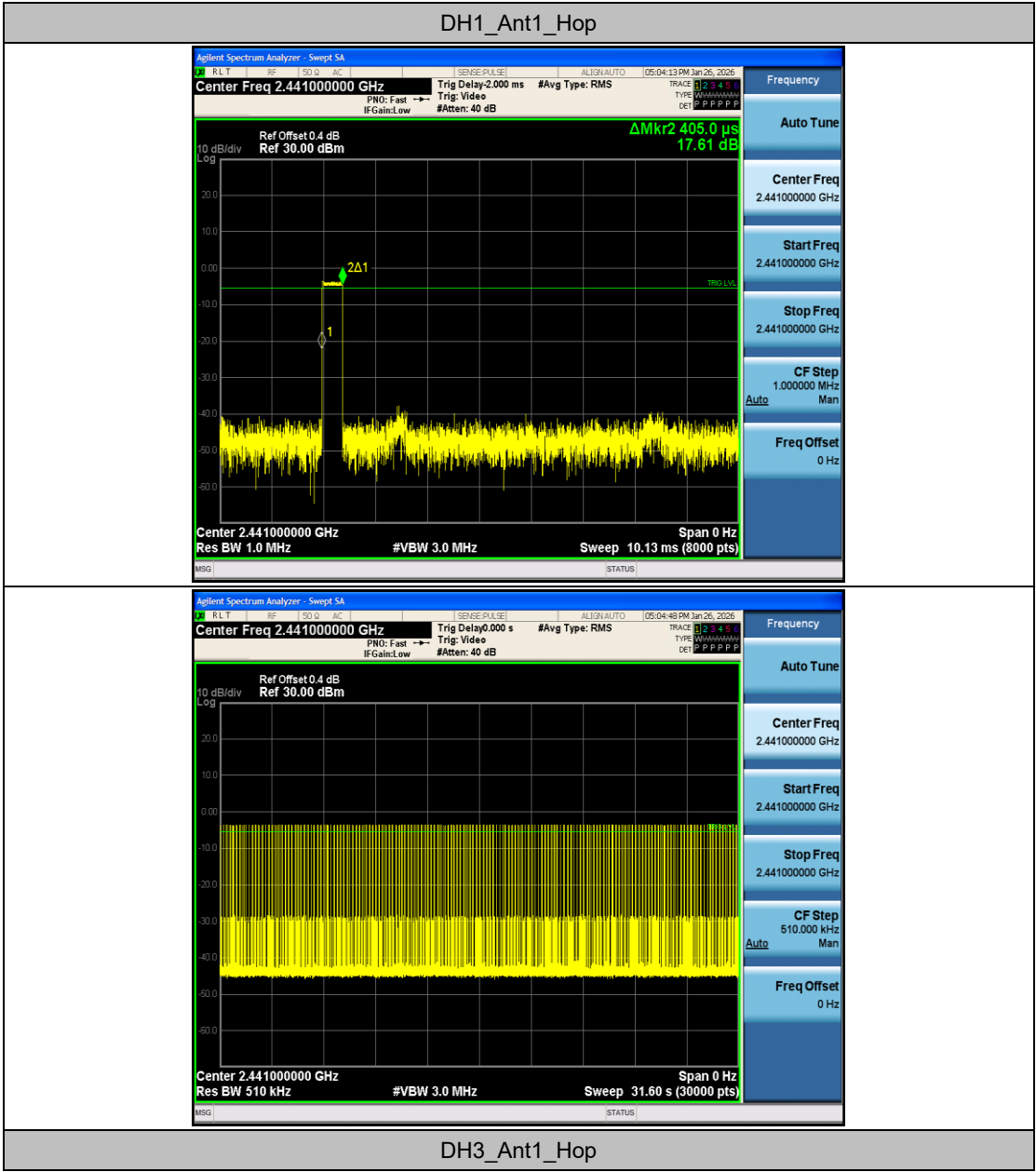


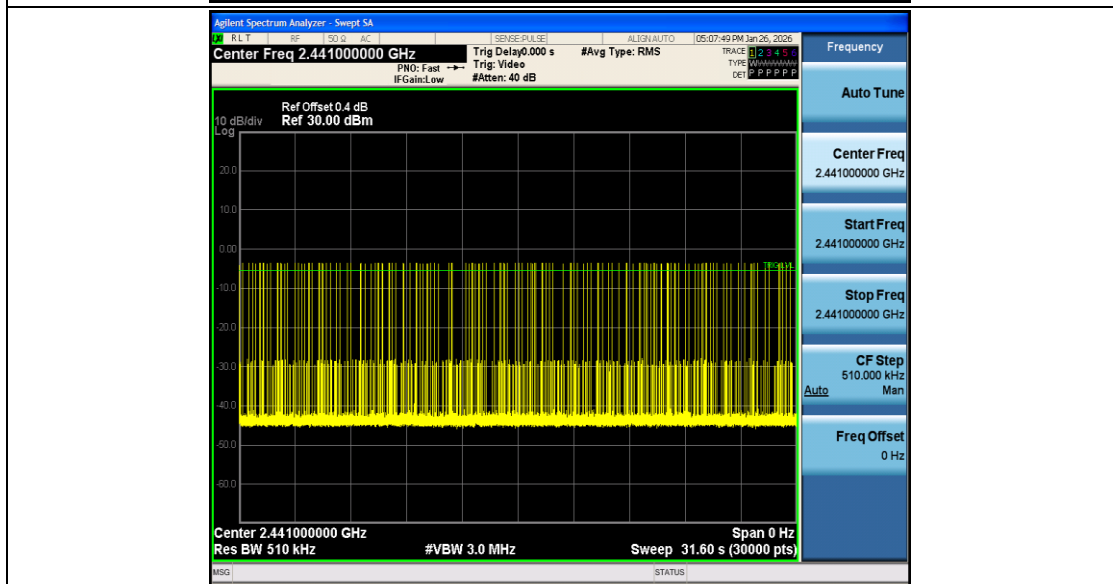
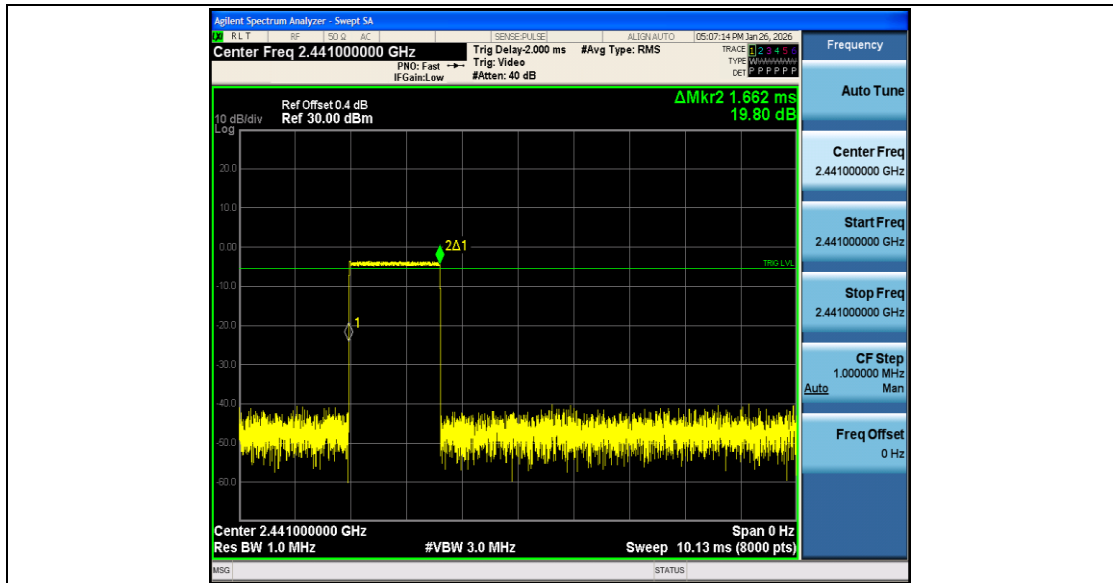
Appendix E: Time of occupancy

Test Result

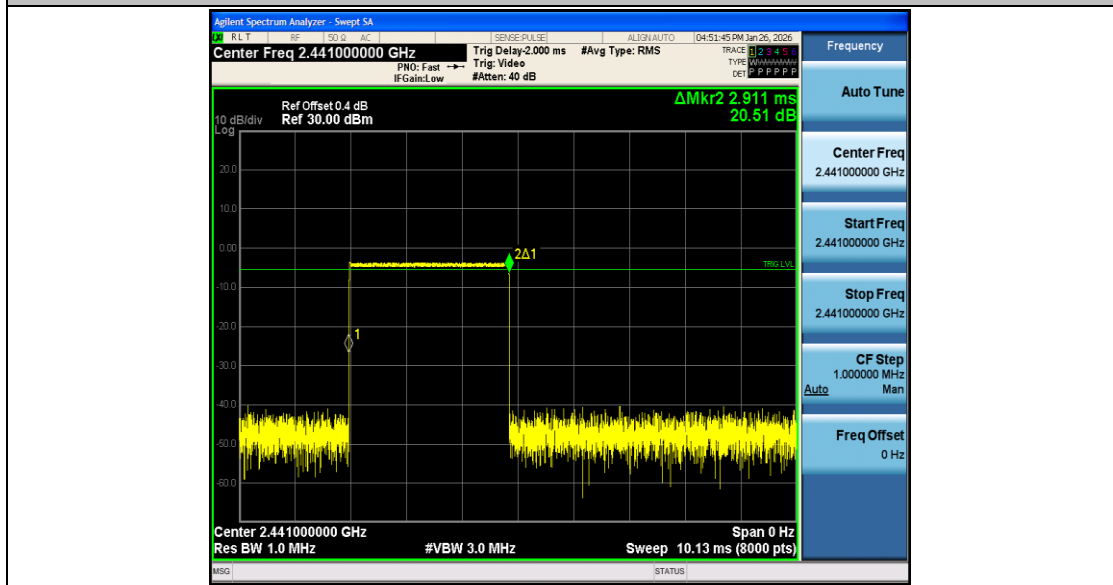
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	319	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	148	0.246	≤0.4	PASS
DH5	Ant1	Hop	2.911	87	0.253	≤0.4	PASS
2DH1	Ant1	Hop	0.407	318	0.129	≤0.4	PASS
2DH3	Ant1	Hop	1.662	167	0.278	≤0.4	PASS
2DH5	Ant1	Hop	2.916	108	0.315	≤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	2.916	110	0.321	≤0.4	PASS

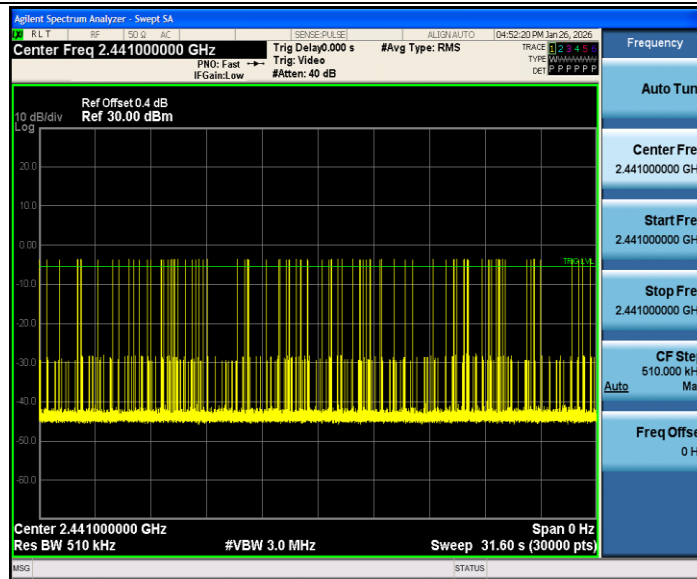
Test Graphs



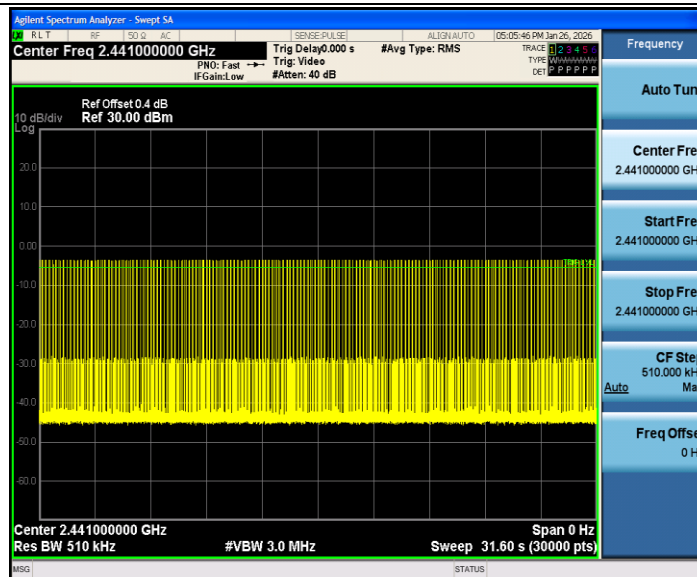
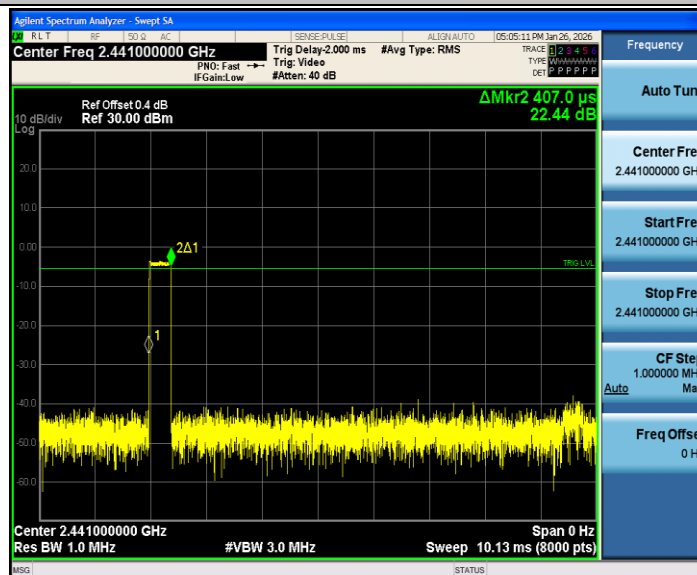


DH5_Ant1_Hop

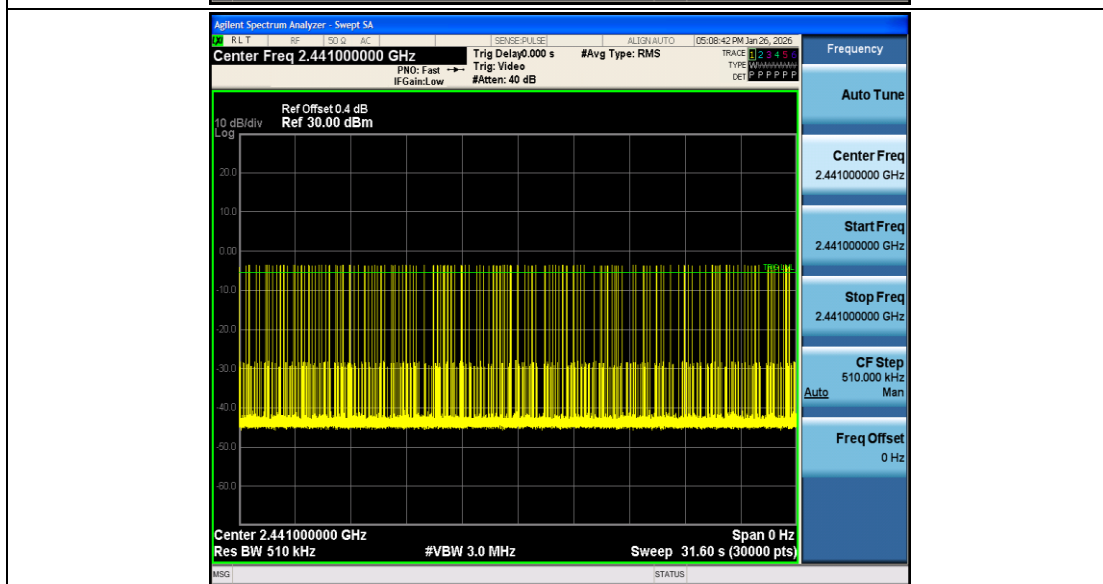
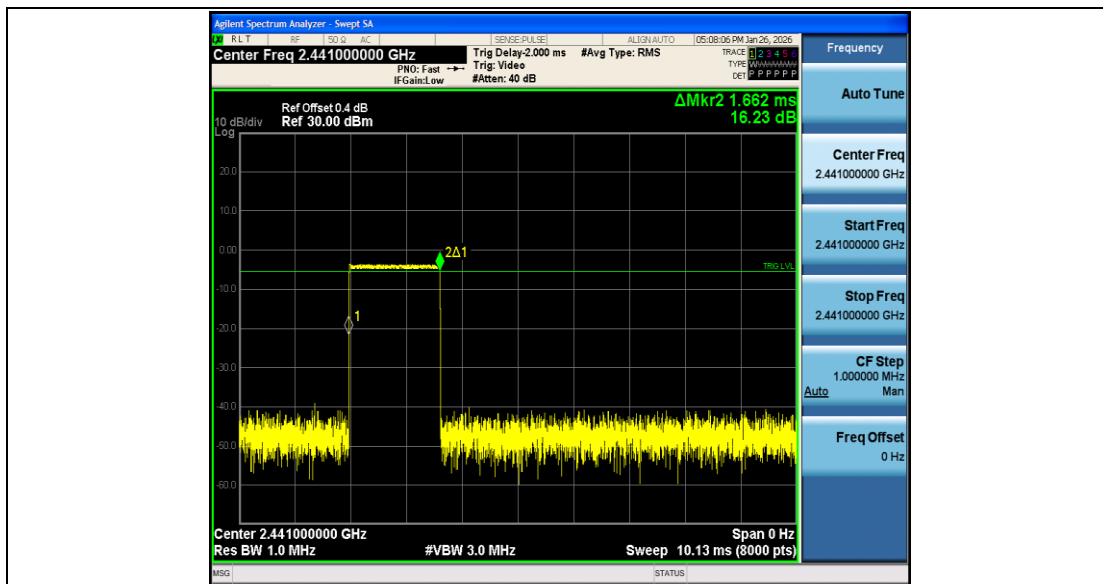




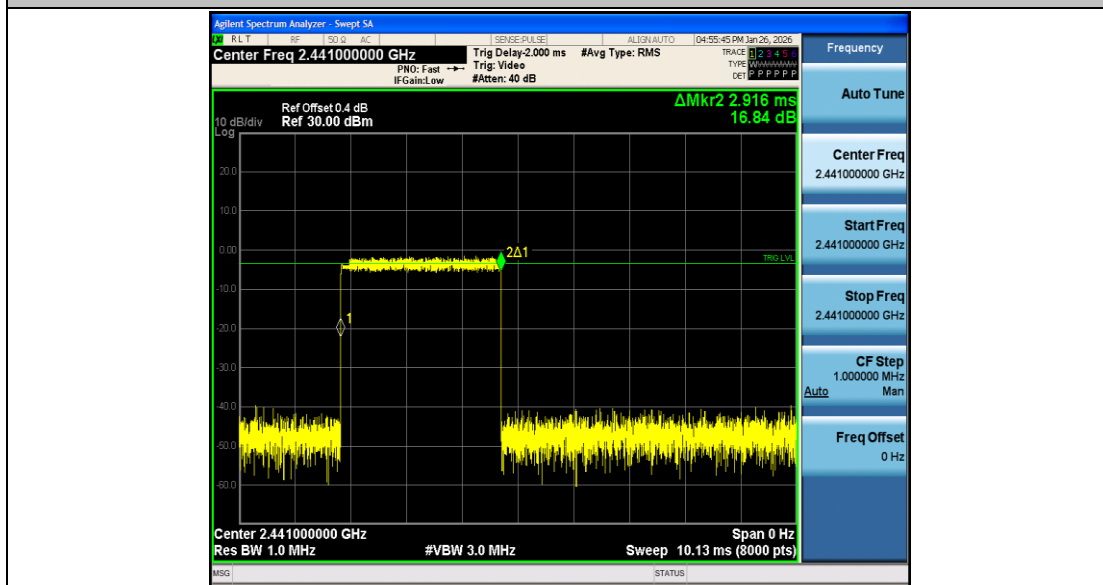
2DH1_Ant1_Hop

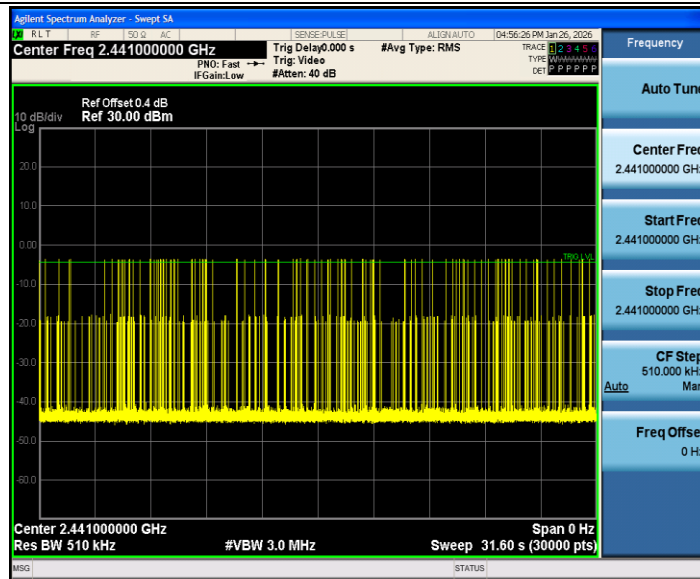


2DH3_Ant1_Hop

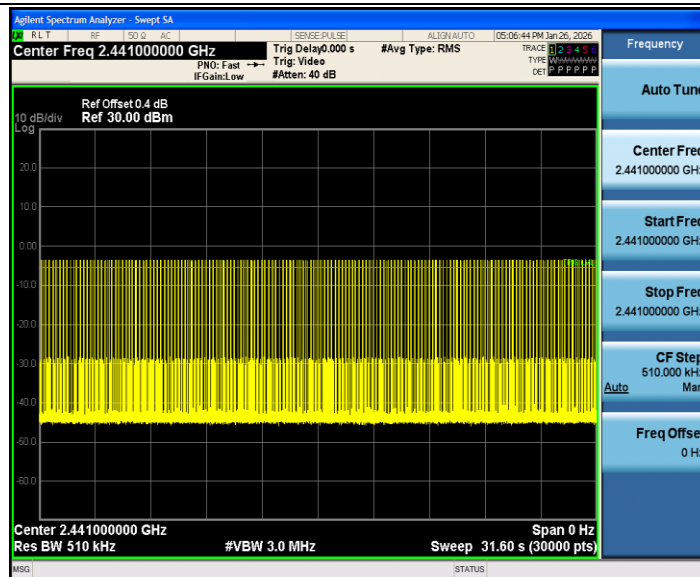
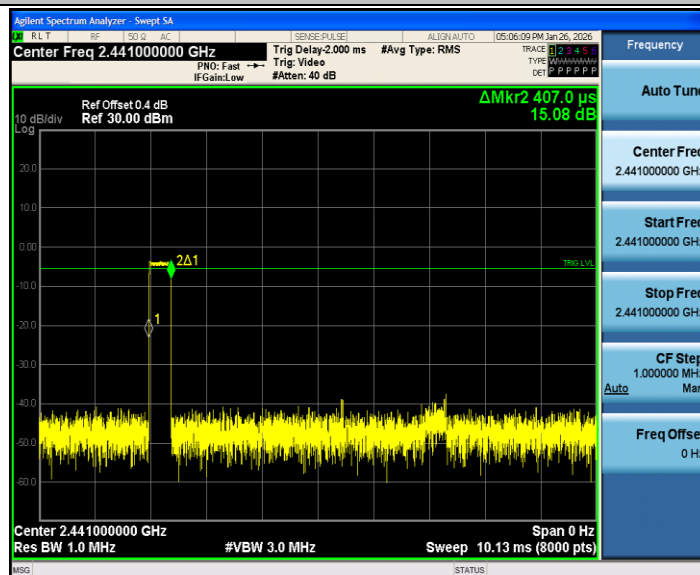


2DH5_Ant1_Hop

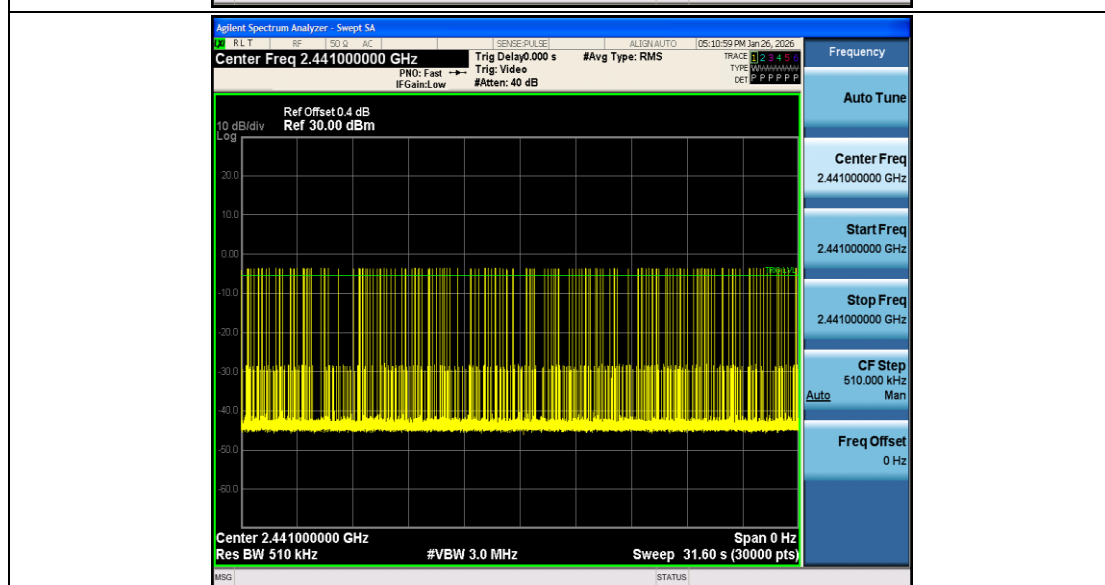
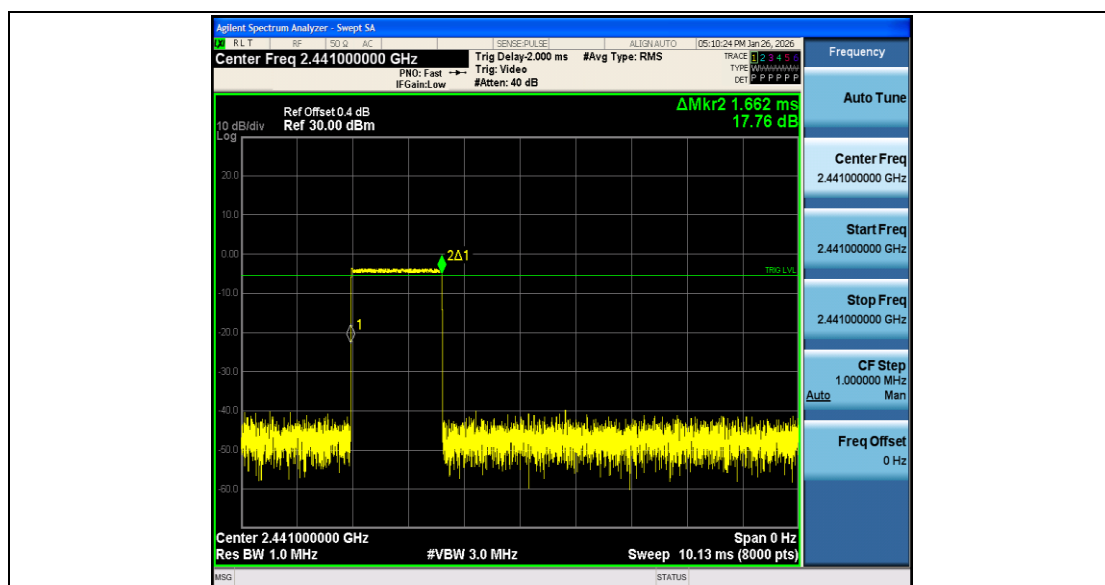




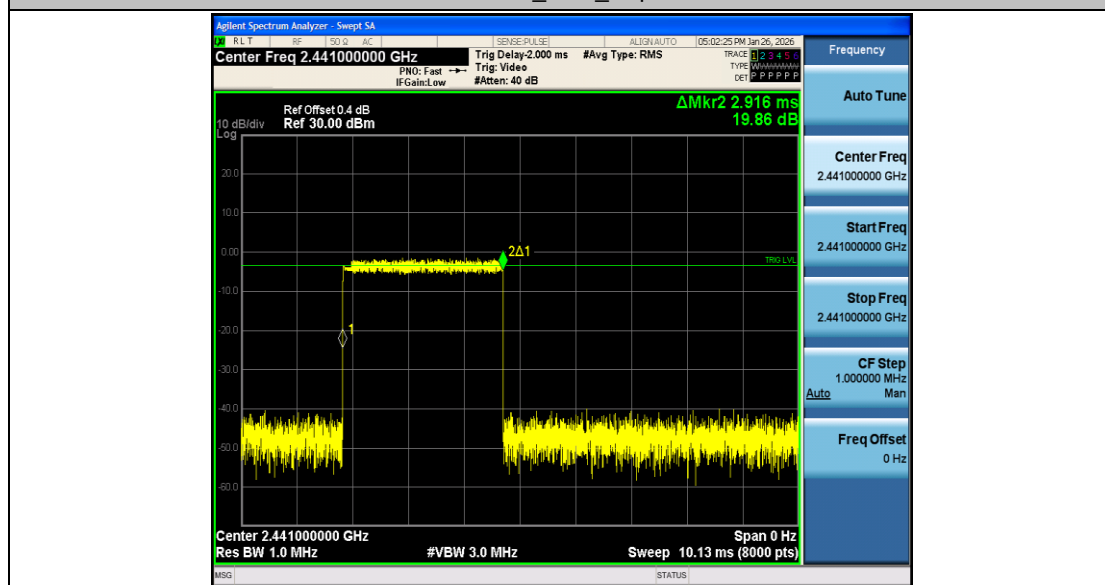
3DH1_Ant1_Hop

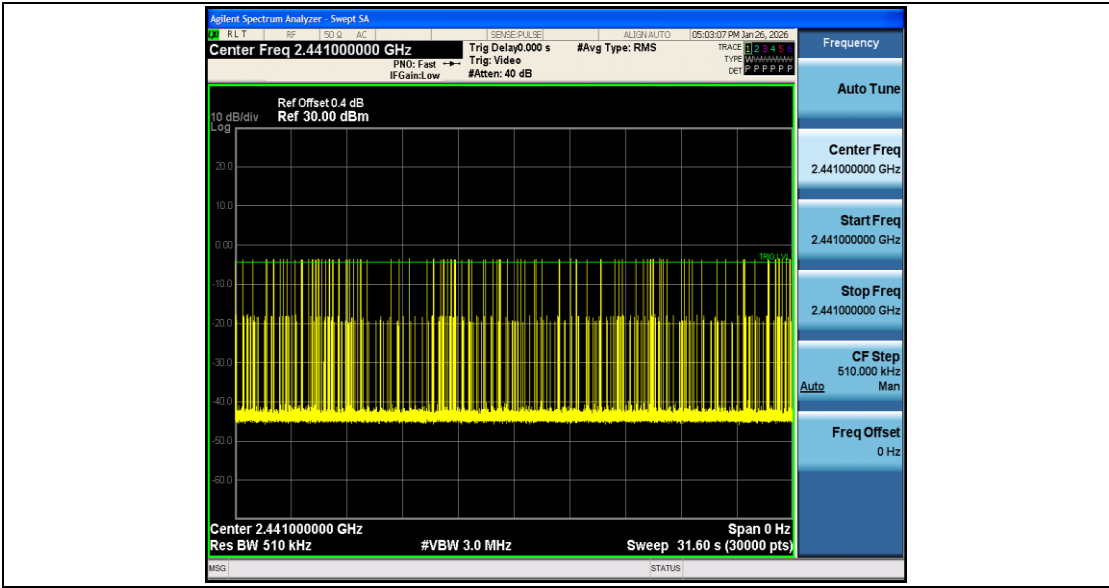


3DH3_Ant1_Hop



3DH5_Ant1_Hop



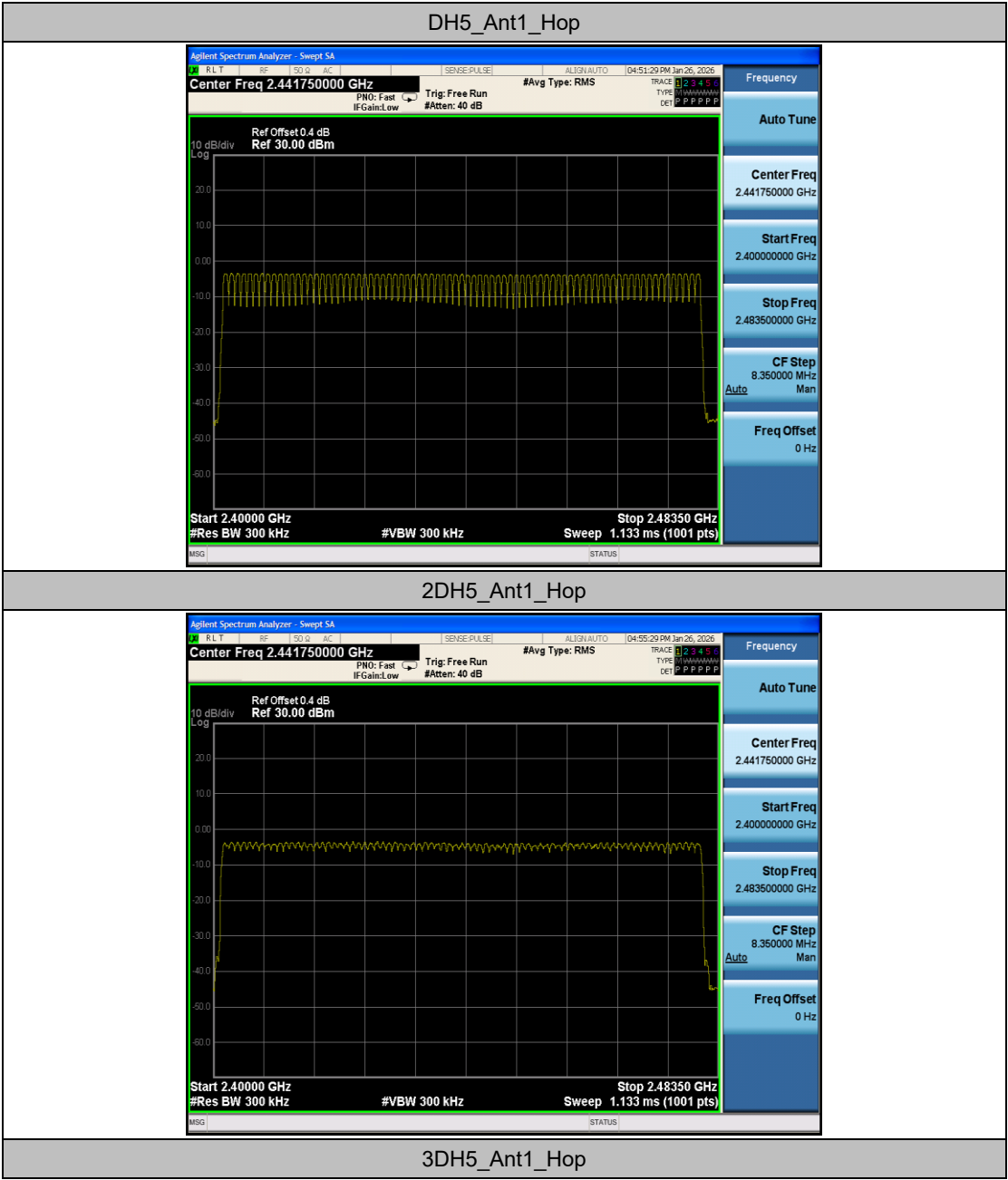


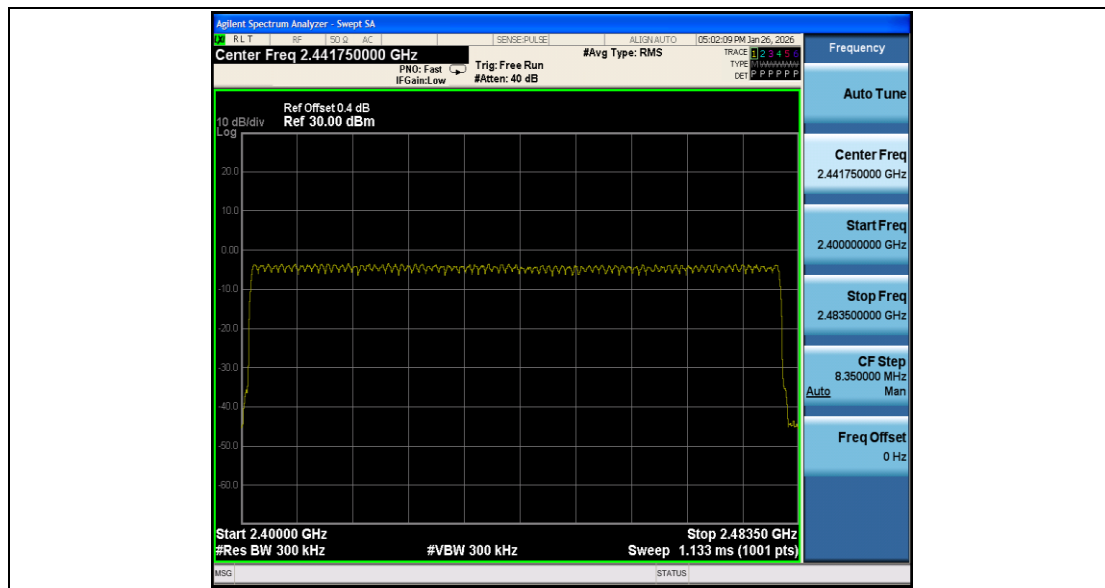
Appendix F: Number of hopping channels

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



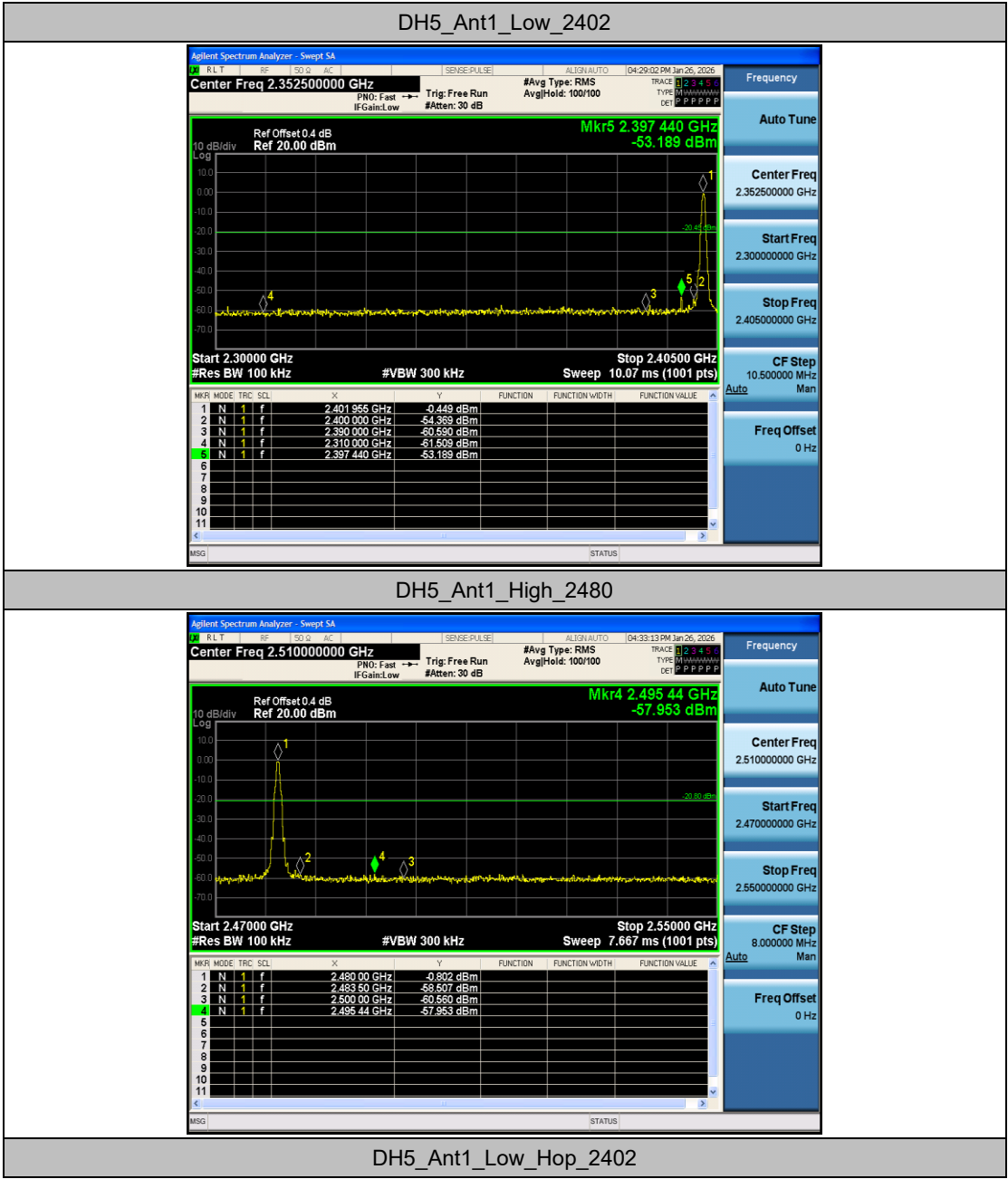


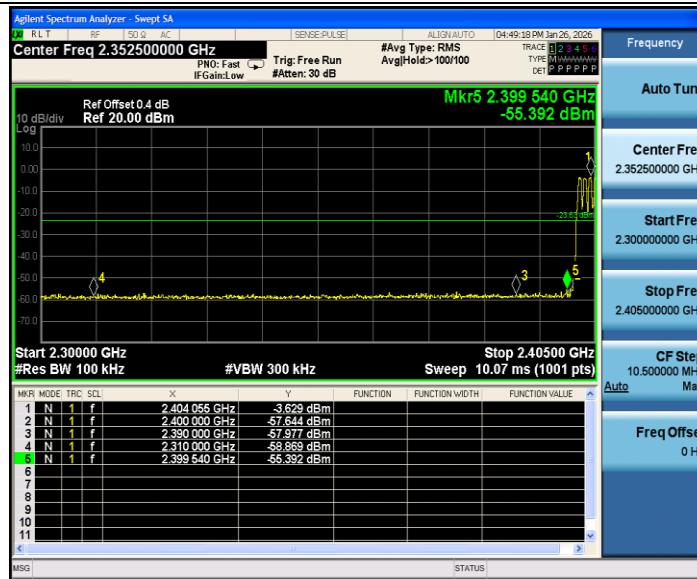
Appendix G: Band edge measurements

Test Result

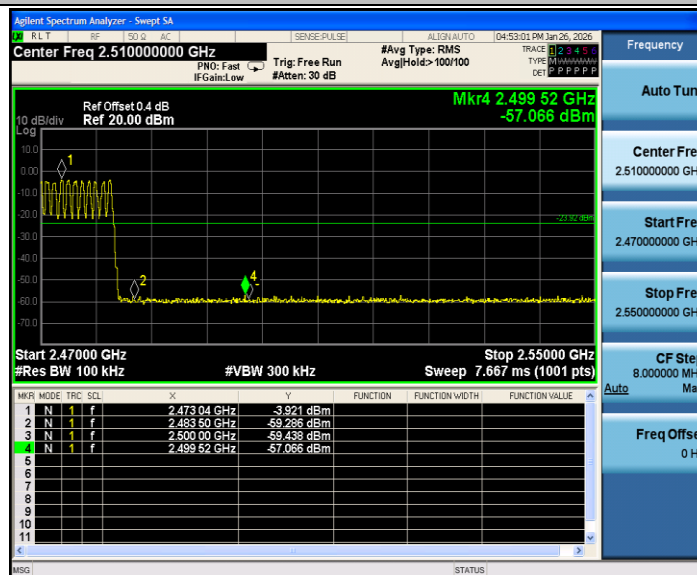
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.45	-53.19	≤-20.45	PASS
		High	2480	-0.80	-57.95	≤-20.8	PASS
		Low	Hop_2402	-3.63	-55.39	≤-23.63	PASS
		High	Hop_2480	-3.92	-57.07	≤-23.92	PASS
2DH5	Ant1	Low	2402	-3.50	-55.27	≤-23.5	PASS
		High	2480	-4.98	-57.16	≤-24.98	PASS
		Low	Hop_2402	-6.60	-57.59	≤-26.6	PASS
		High	Hop_2480	-3.75	-55.88	≤-23.75	PASS
3DH5	Ant1	Low	2402	-3.66	-56.51	≤-23.66	PASS
		High	2480	-6.42	-57.77	≤-26.42	PASS
		Low	Hop_2402	-3.67	-56.74	≤-23.67	PASS
		High	Hop_2480	-4.56	-57.25	≤-24.56	PASS

Test Graphs

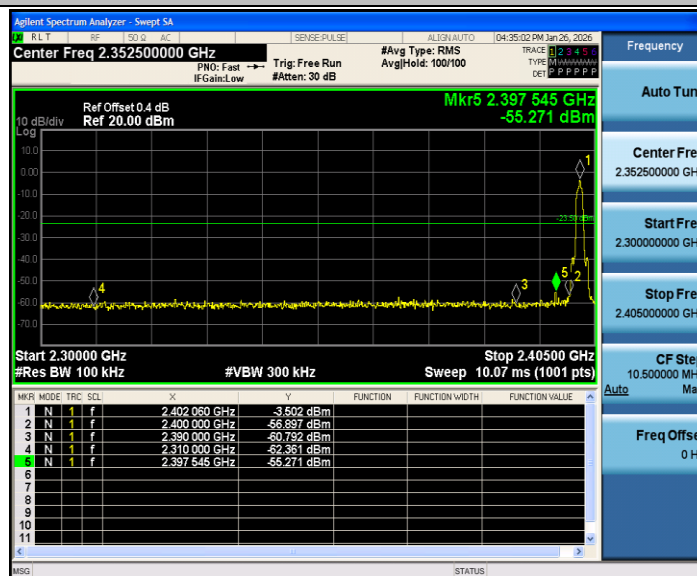




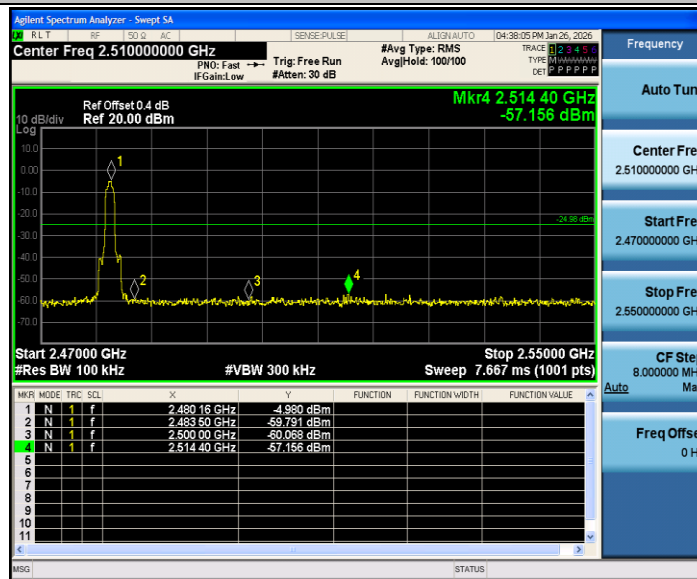
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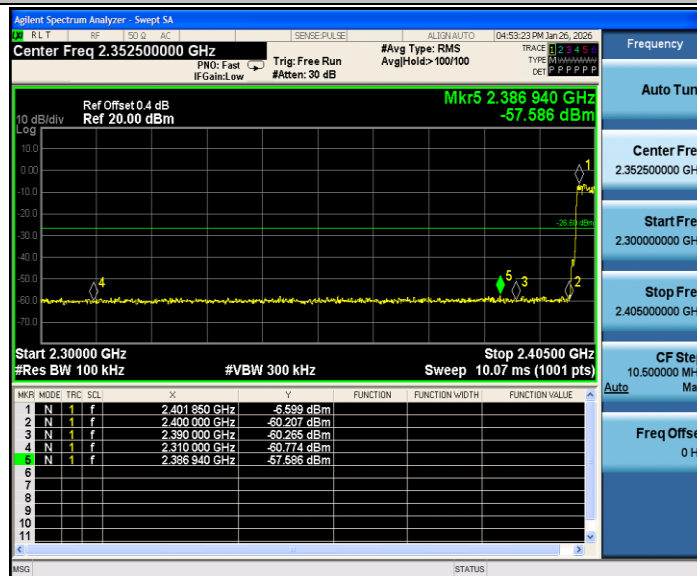
2DH5_Ant1_Low_2402



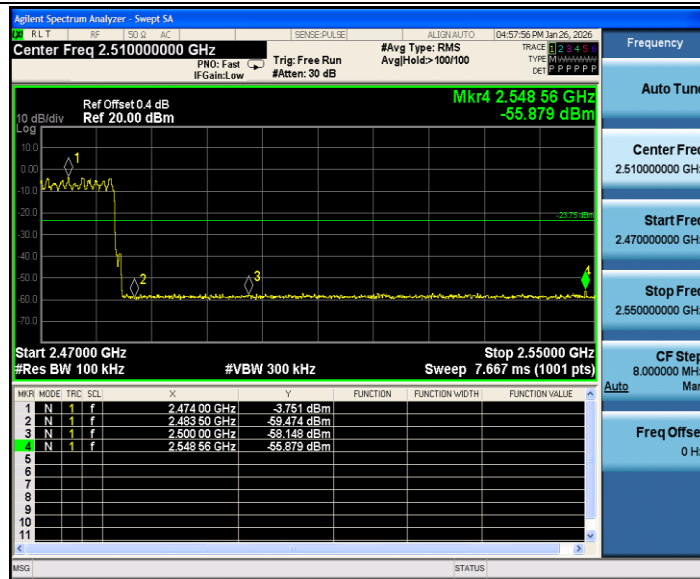
2DH5_Ant1_High_2480



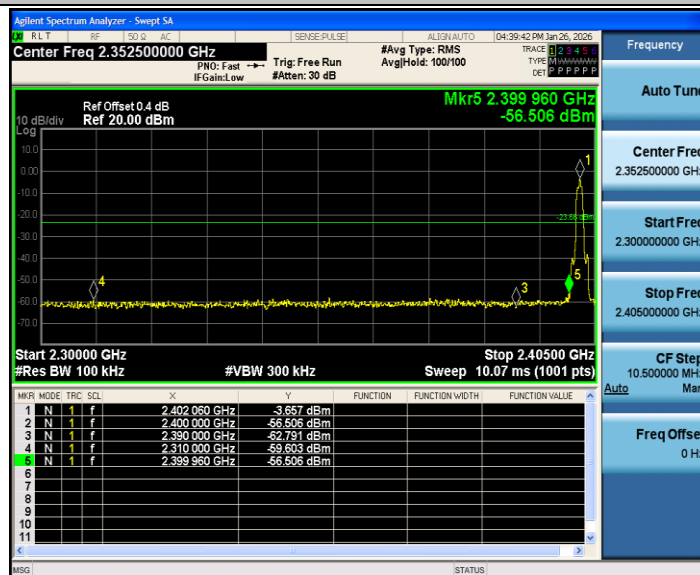
2DH5_Ant1_Low_Hop_2402



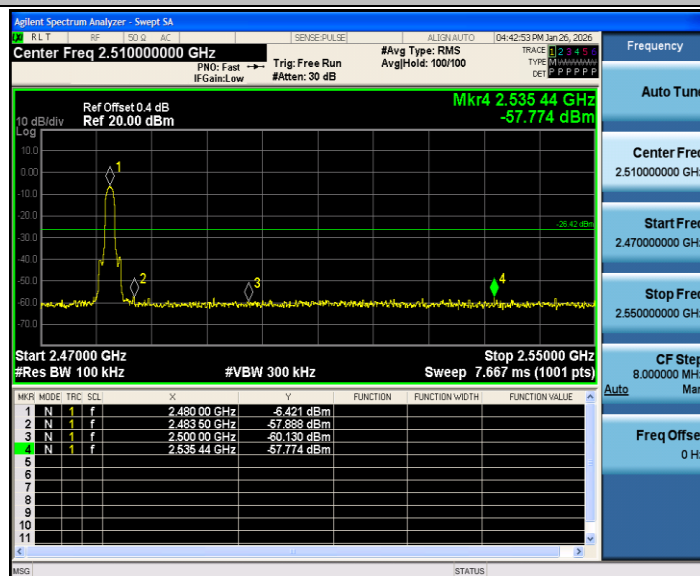
2DH5_Ant1_High_Hop_2480



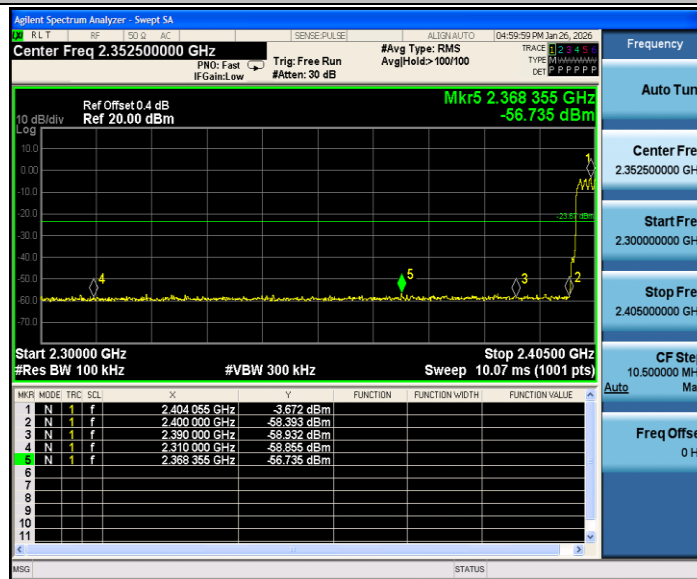
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

