

FCC Appendix RF Test Data for BT

FCC ID : 2ASJK-X1

Company : Guangzhou Pearl River Amason Digital Musical
Instrument Co.,Ltd.

EUT : Electronic Drum

Model Number : X1

Report No. : CTA26092001102

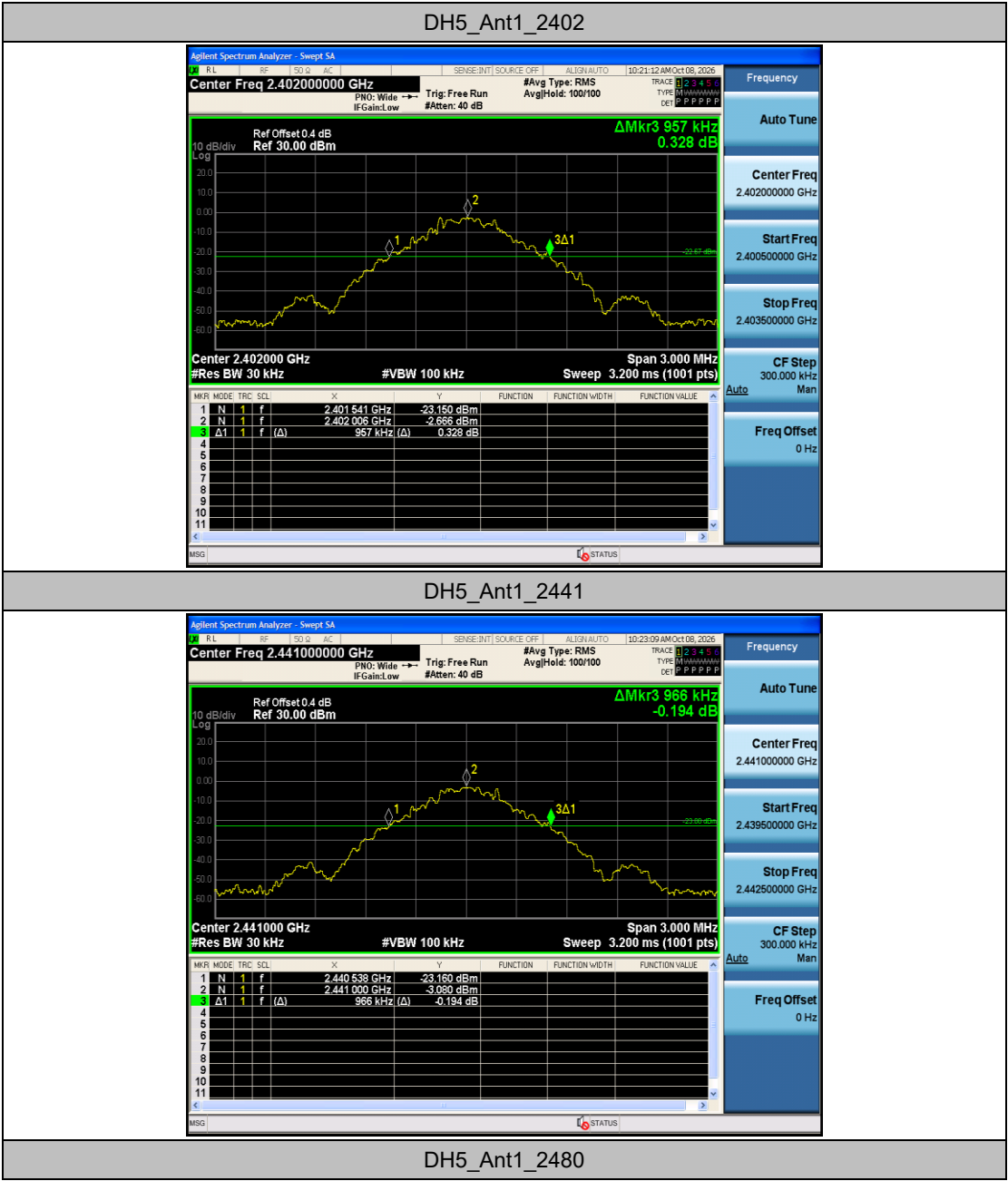
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.541	2402.498	---	---
		2441	0.966	2440.538	2441.504	---	---
		2480	0.954	2479.544	2480.498	---	---
2DH5	Ant1	2402	1.329	2401.343	2402.672	---	---
		2441	1.284	2440.379	2441.663	---	---
		2480	1.344	2479.337	2480.681	---	---
3DH5	Ant1	2402	1.272	2401.364	2402.636	---	---
		2441	1.308	2440.358	2441.666	---	---
		2480	1.299	2479.361	2480.660	---	---

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	0.84889	2401.5829	2402.4318	---	---
		2441	0.87935	2440.5716	2441.4509	---	---
		2480	0.86185	2479.5798	2480.4417	---	---
2DH5	Ant1	2402	1.1836	2401.4195	2402.6031	---	---
		2441	1.1836	2440.4173	2441.6009	---	---
		2480	1.1920	2479.4151	2480.6071	---	---
3DH5	Ant1	2402	1.1997	2401.4074	2402.6071	---	---
		2441	1.1802	2440.4233	2441.6035	---	---
		2480	1.1854	2479.4227	2480.6081	---	---

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	0.18	≤20.97	PASS
		2441	0.05	≤20.97	PASS
		2480	-0.19	≤20.97	PASS
2DH5	Ant1	2402	-0.77	≤20.97	PASS
		2441	-0.86	≤20.97	PASS
		2480	-1.06	≤20.97	PASS
3DH5	Ant1	2402	-0.31	≤20.97	PASS
		2441	-0.43	≤20.97	PASS
		2480	-0.66	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.966	PASS
2DH5	Ant1	Hop	0.984	≥ 0.896	PASS
3DH5	Ant1	Hop	1.02	≥ 0.872	PASS

Test Graphs



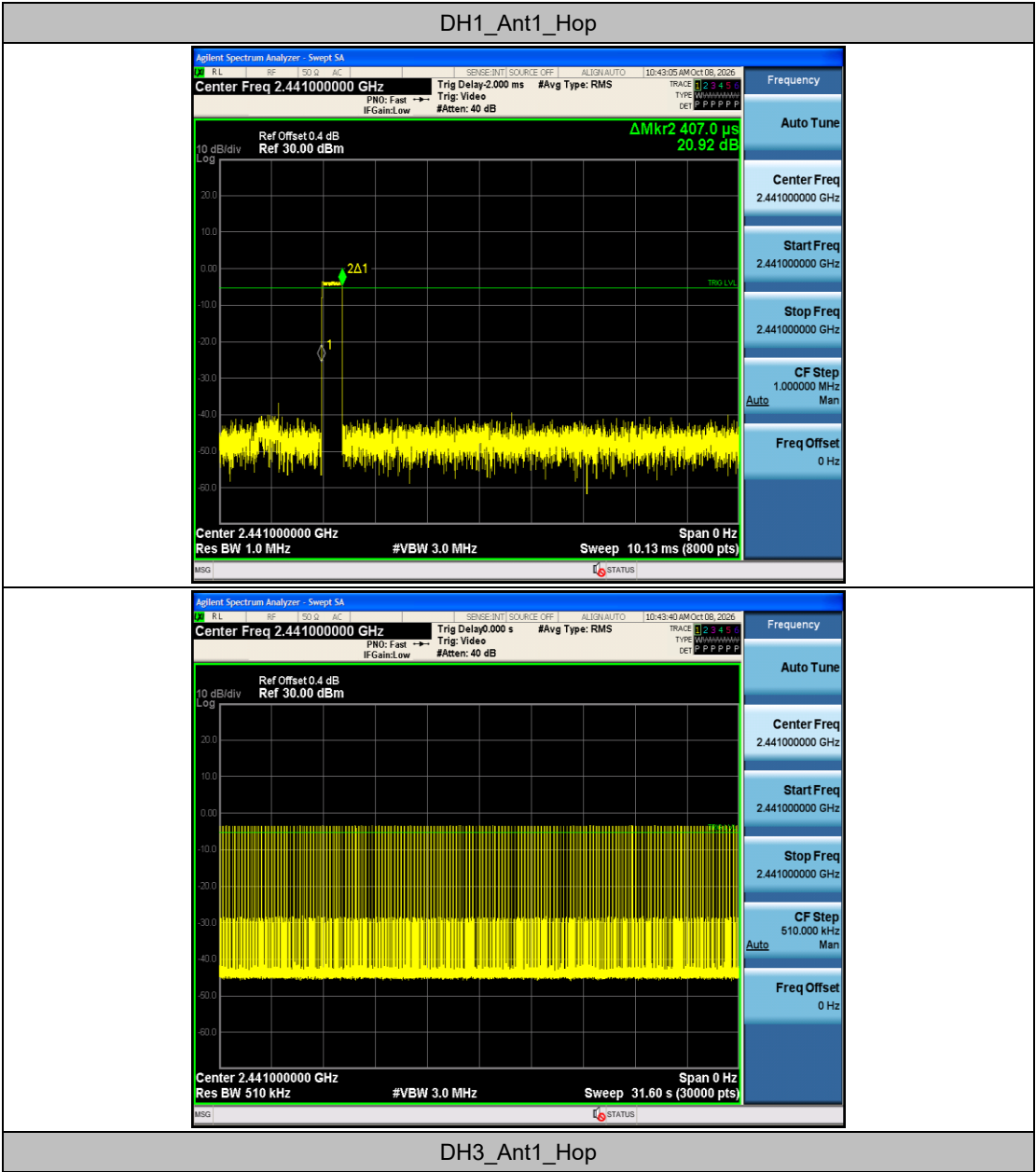


Appendix E: Time of occupancy

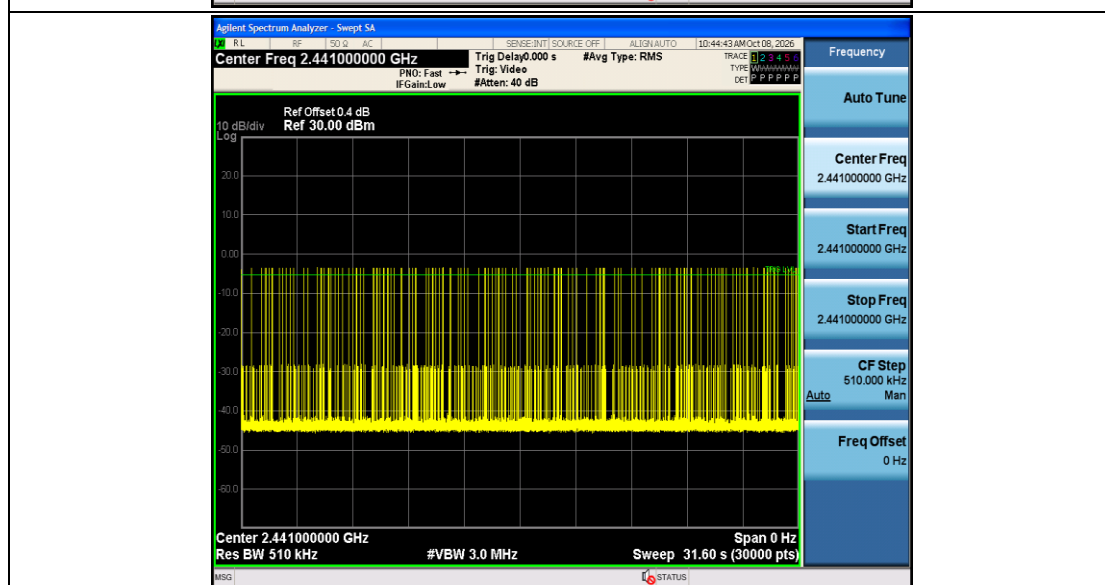
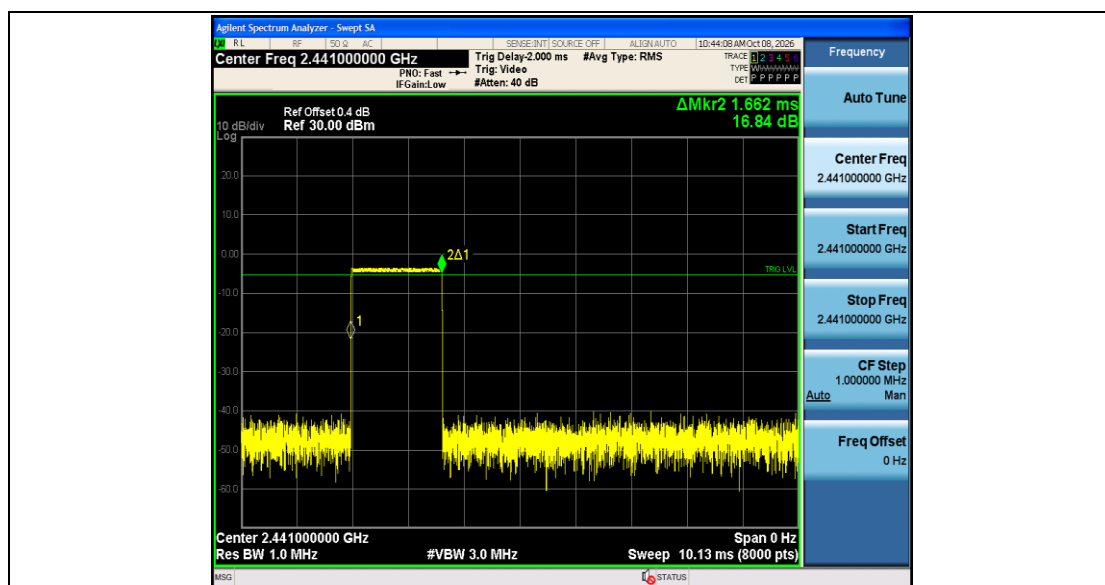
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	316	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	156	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.910	103	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	160	0.267	≤0.4	PASS
2DH5	Ant1	Hop	2.916	108	0.315	≤0.4	PASS
3DH1	Ant1	Hop	0.414	315	0.13	≤0.4	PASS
3DH3	Ant1	Hop	1.666	155	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.917	102	0.298	≤0.4	PASS

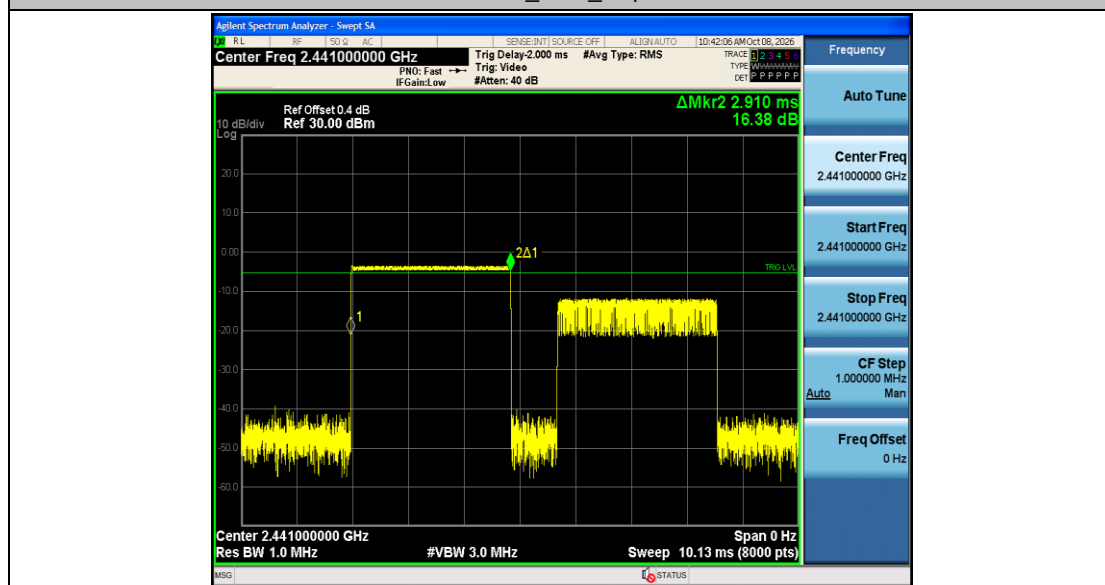
Test Graphs

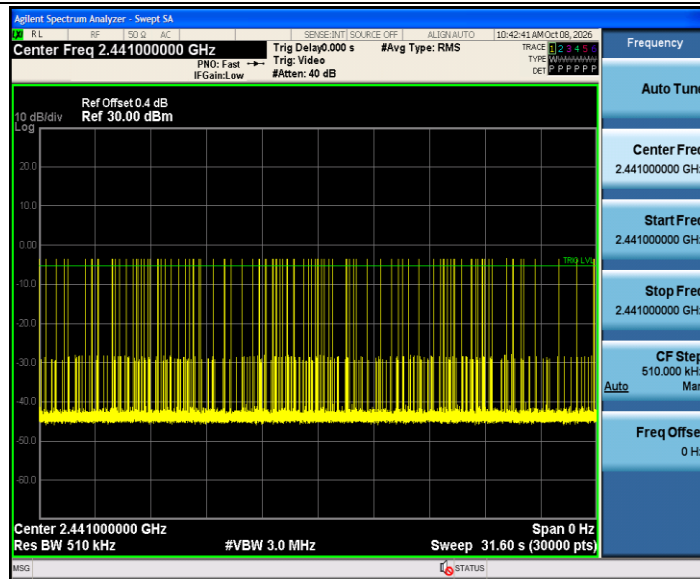


DH3_Ant1_Hop

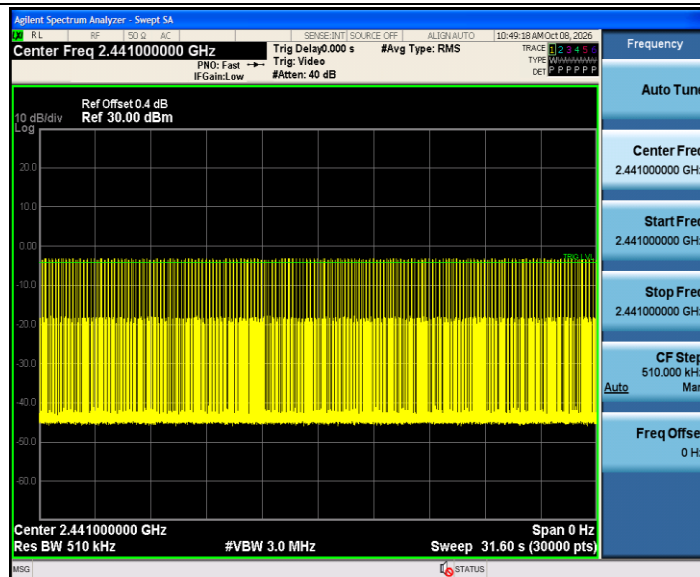
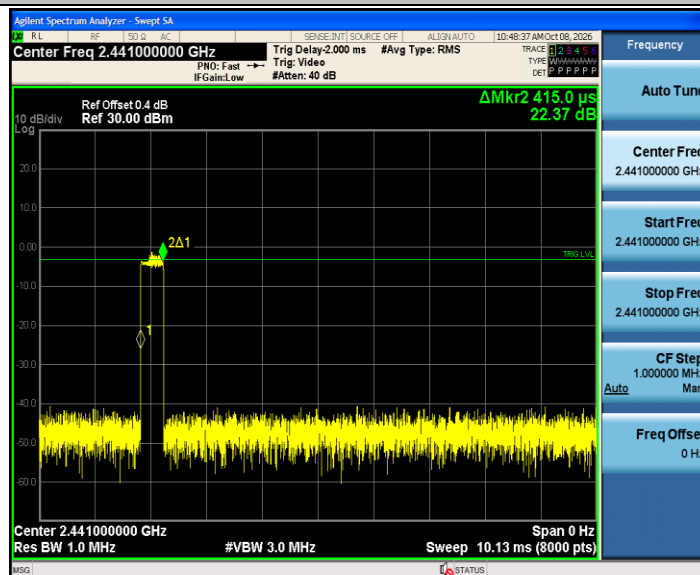


DH5_Ant1_Hop

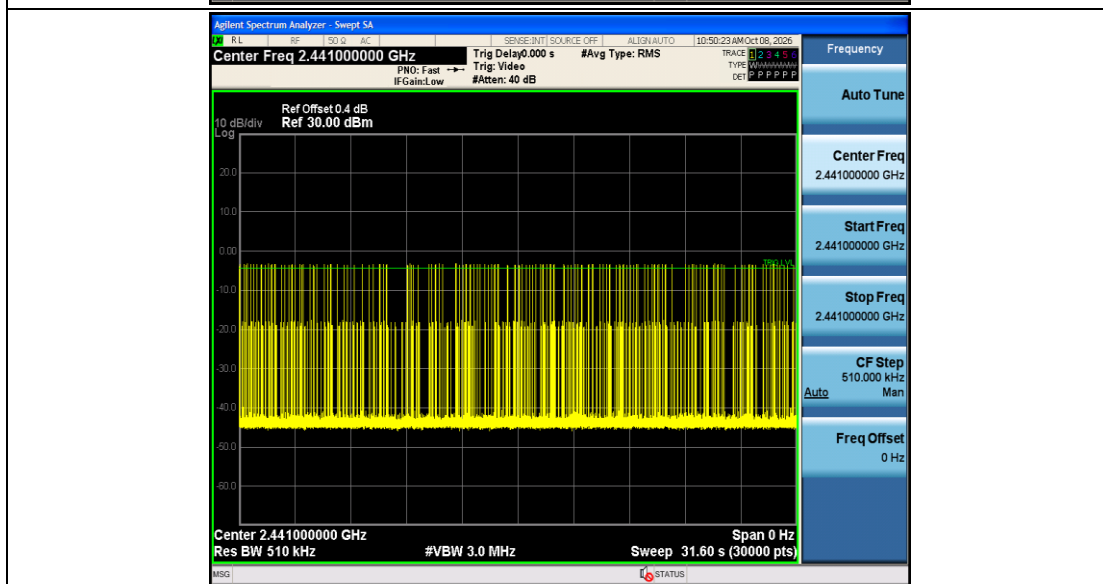
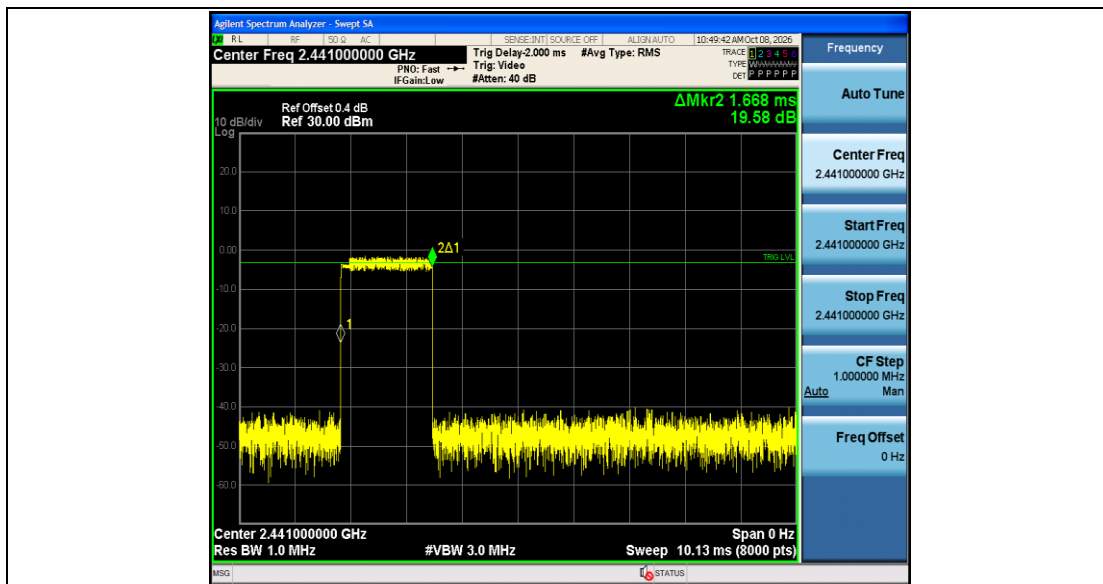




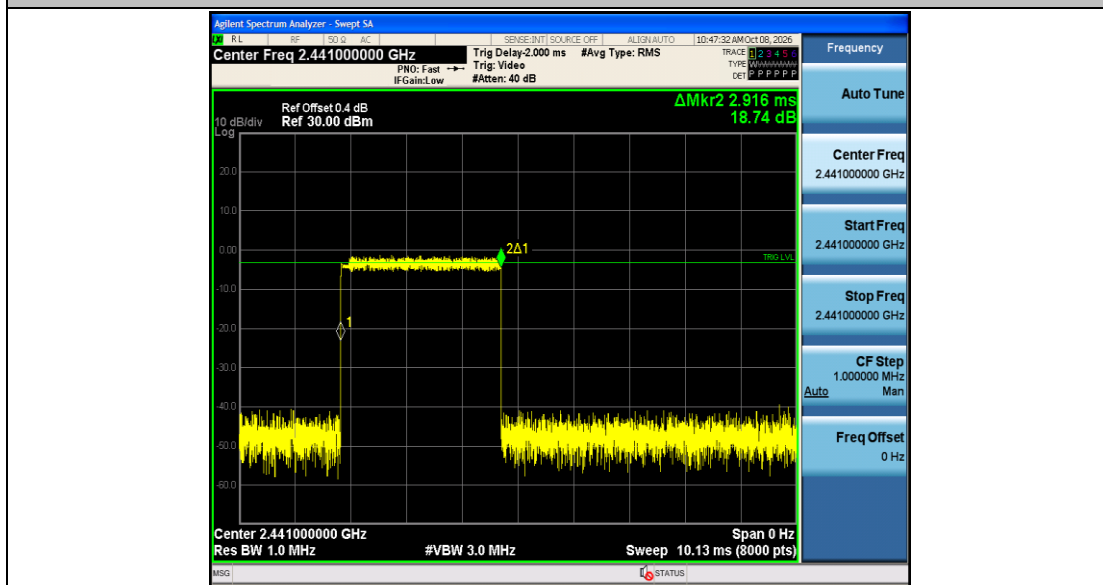
2DH1_Ant1_Hop

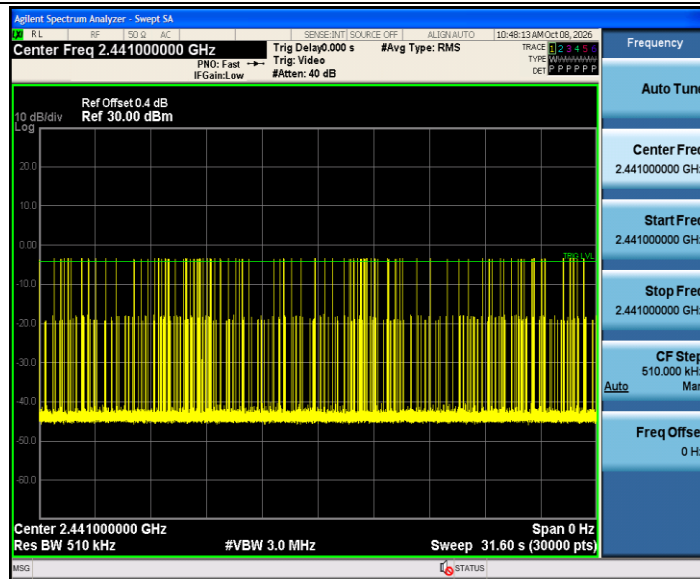


2DH3_Ant1_Hop

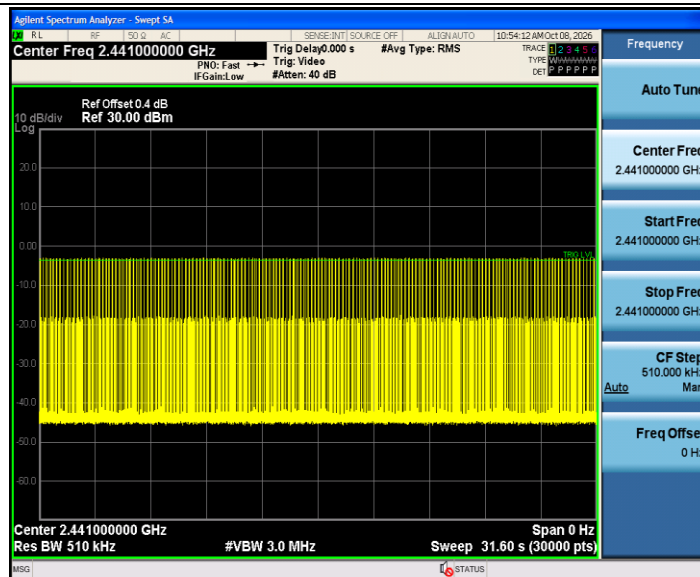
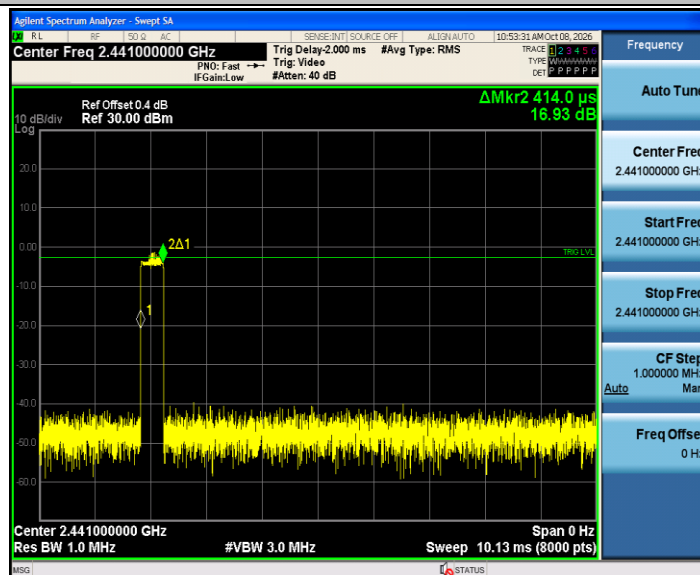


2DH5_Ant1_Hop

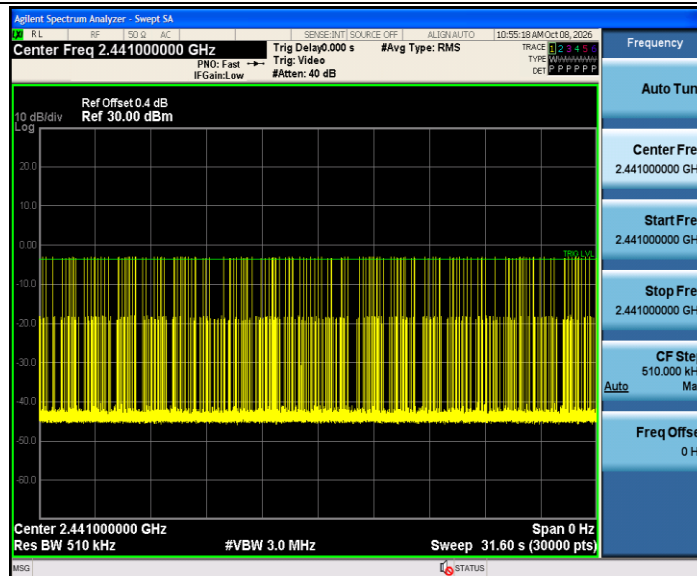
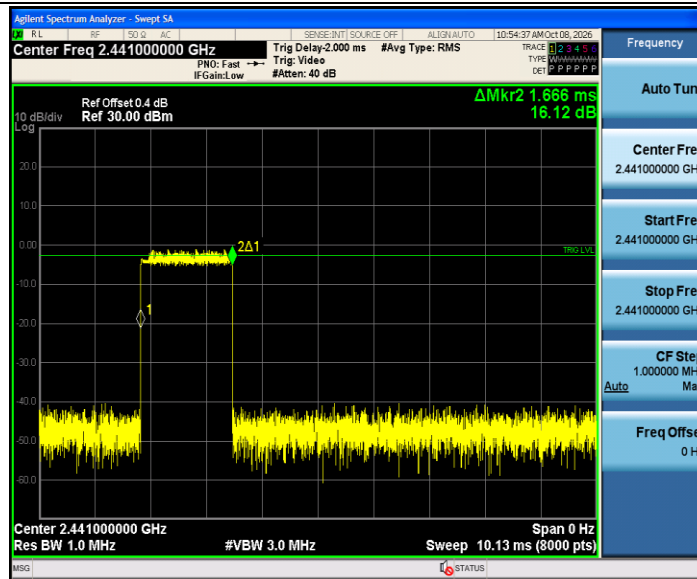




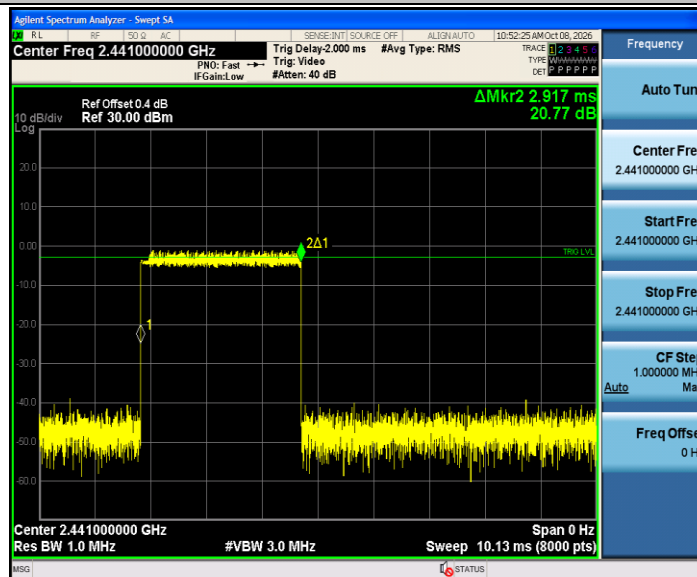
3DH1_Ant1_Hop

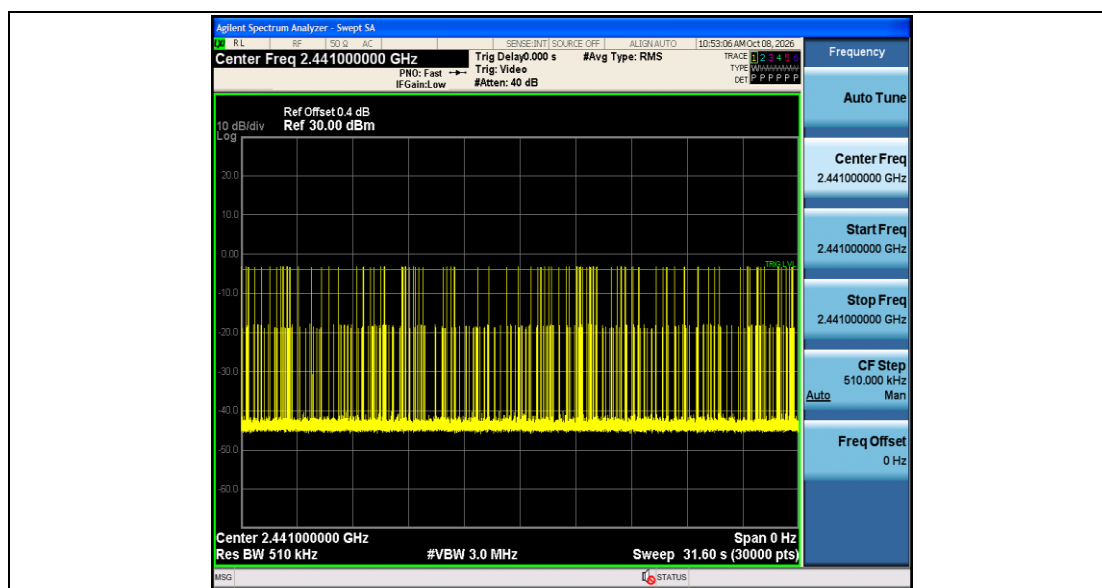


3DH3_Ant1_Hop



3DH5_Ant1_Hop



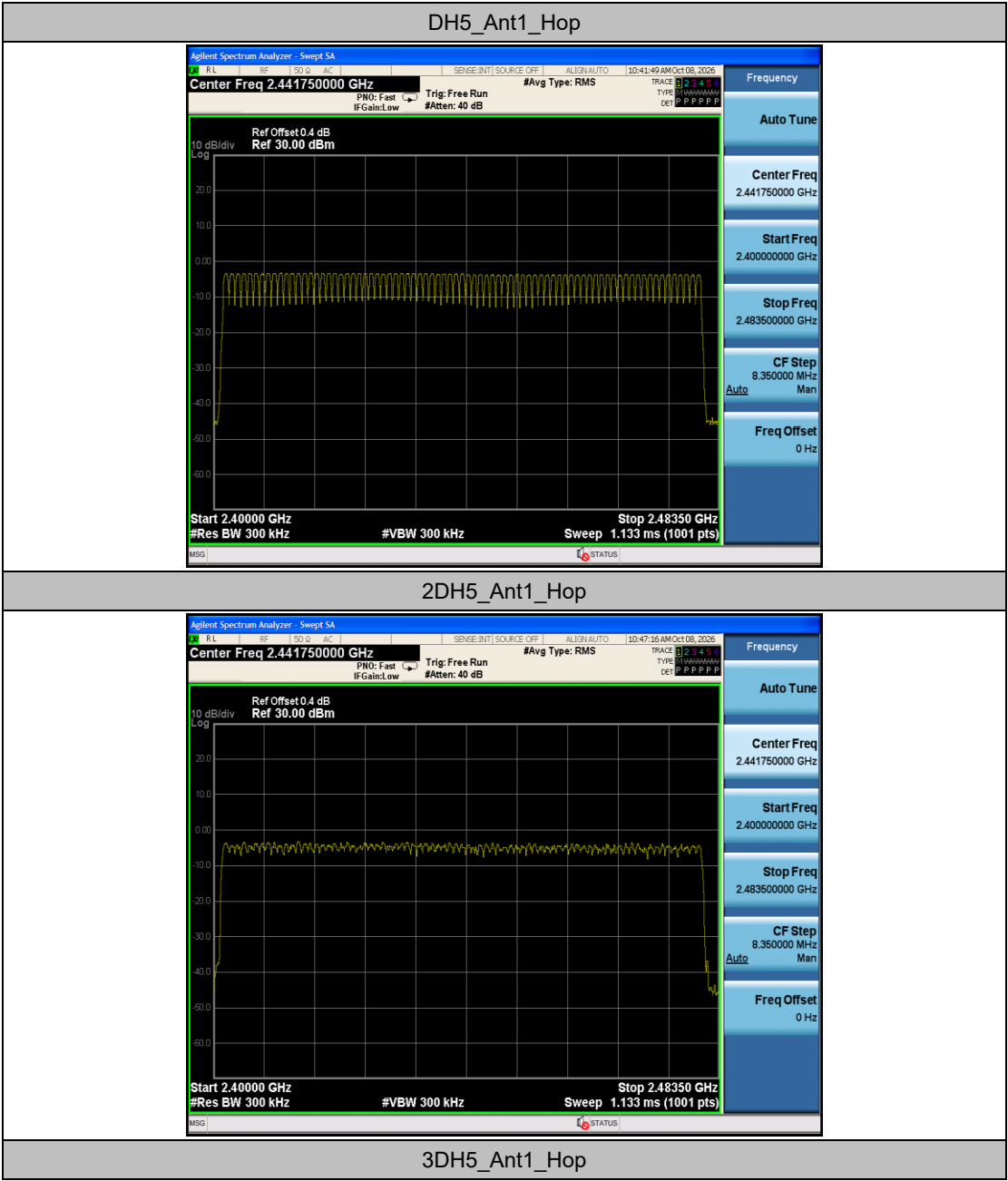


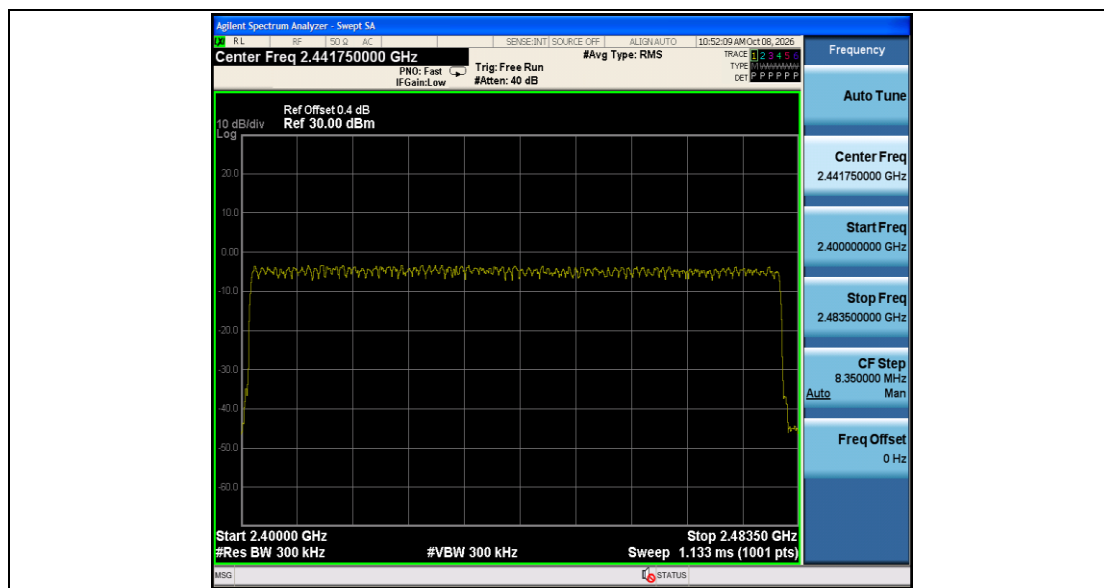
Appendix F: Number of hopping channels

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



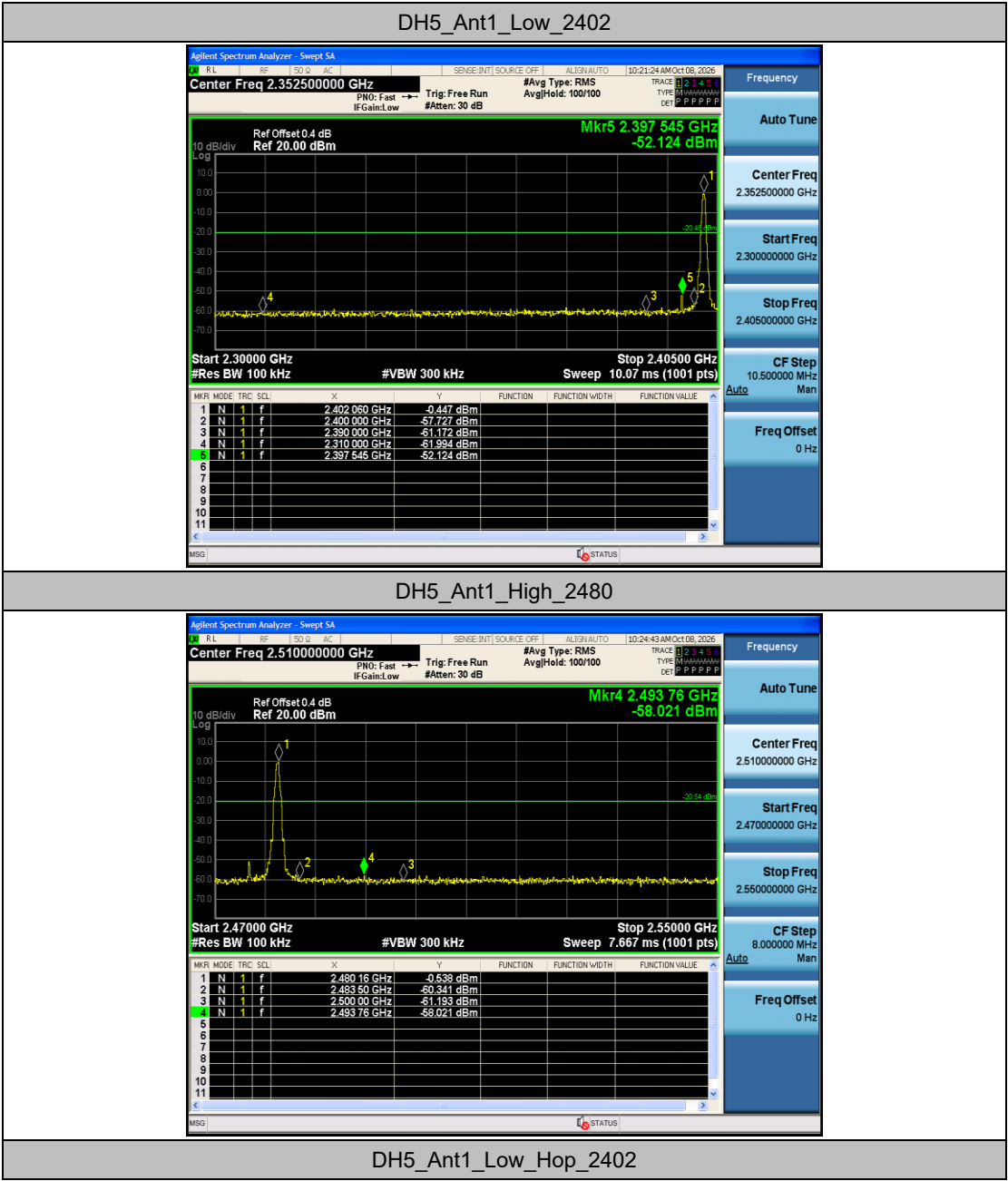


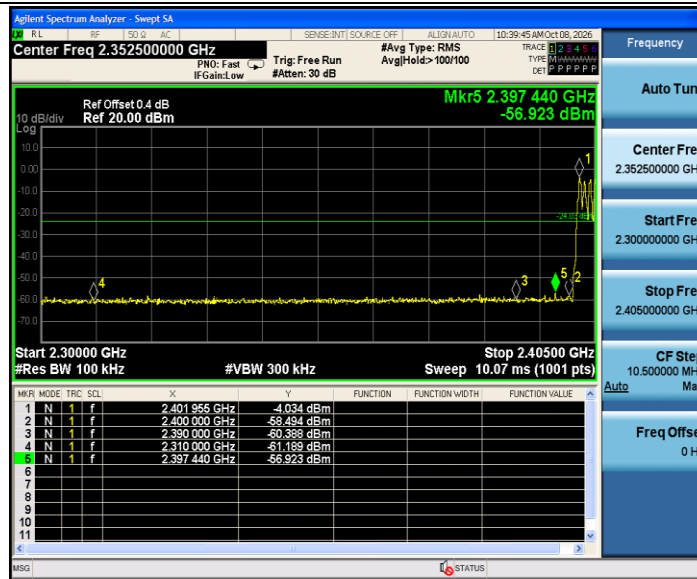
Appendix G: Band edge measurements

Test Result

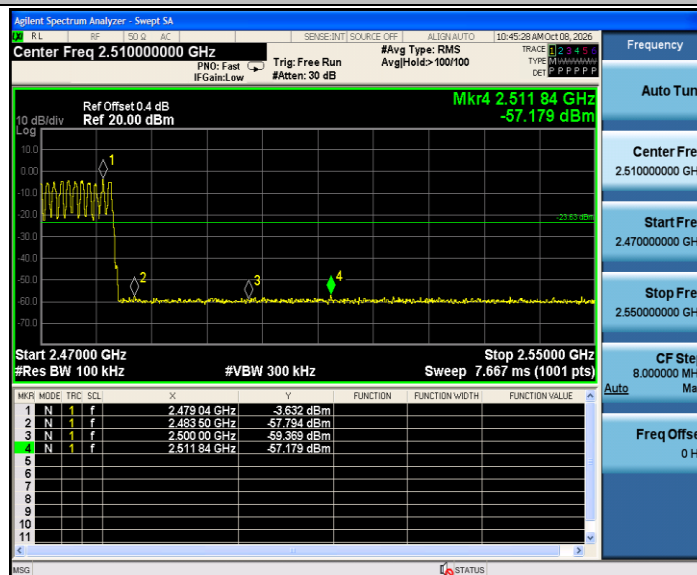
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.45	-52.12	≤-20.45	PASS
		High	2480	-0.54	-58.02	≤-20.54	PASS
		Low	Hop_2402	-4.03	-56.92	≤-24.03	PASS
		High	Hop_2480	-3.63	-57.18	≤-23.63	PASS
2DH5	Ant1	Low	2402	-3.37	-55.31	≤-23.37	PASS
		High	2480	-4.46	-57.13	≤-24.46	PASS
		Low	Hop_2402	-3.70	-57.88	≤-23.7	PASS
		High	Hop_2480	-4.56	-57.47	≤-24.56	PASS
3DH5	Ant1	Low	2402	-3.55	-57.57	≤-23.55	PASS
		High	2480	-6.29	-57.64	≤-26.29	PASS
		Low	Hop_2402	-6.32	-58.09	≤-26.32	PASS
		High	Hop_2480	-4.34	-56.16	≤-24.34	PASS

Test Graphs

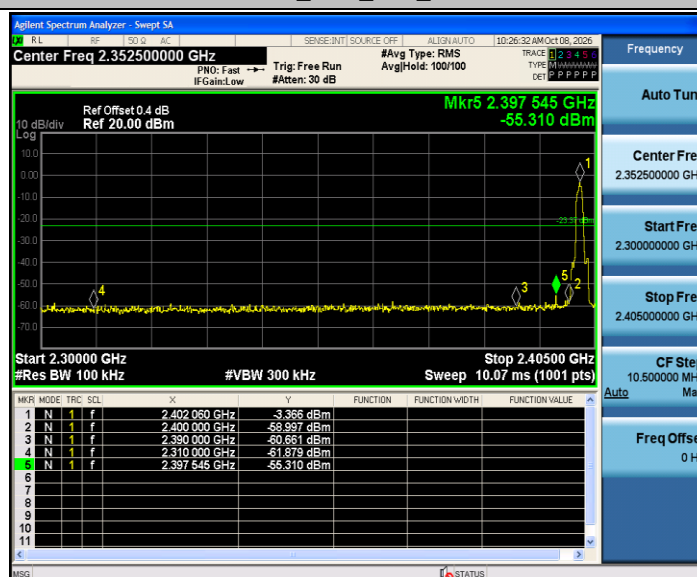




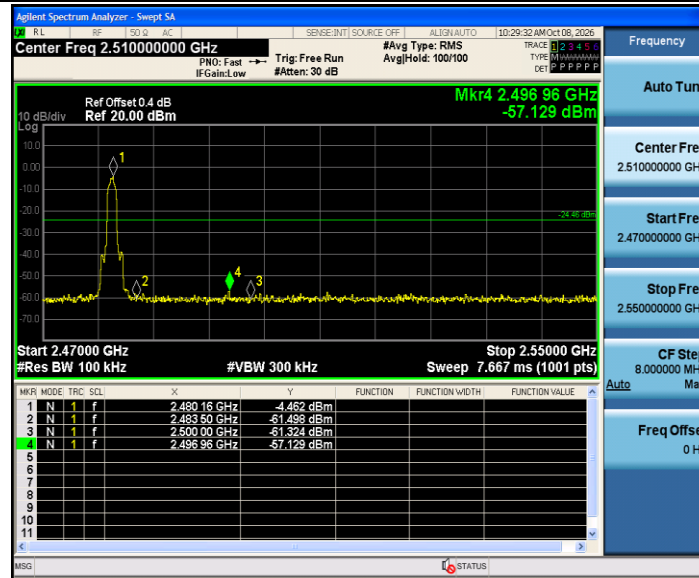
DH5_Ant1_High_Hop_2480



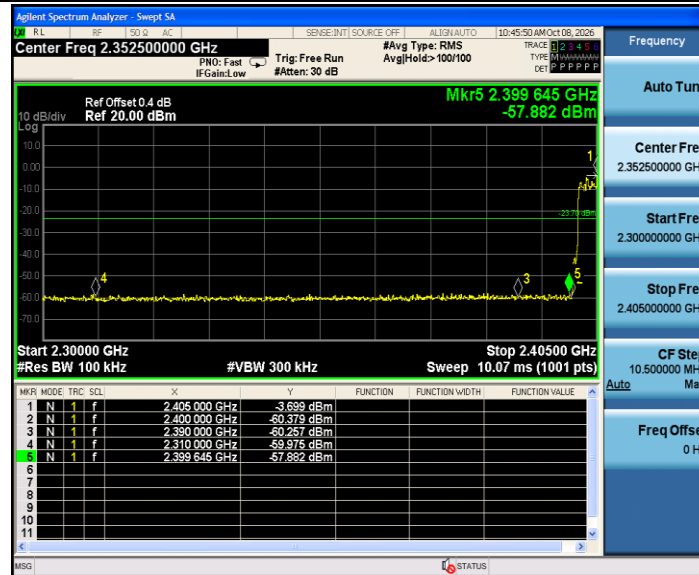
2DH5_Ant1_Low_2402



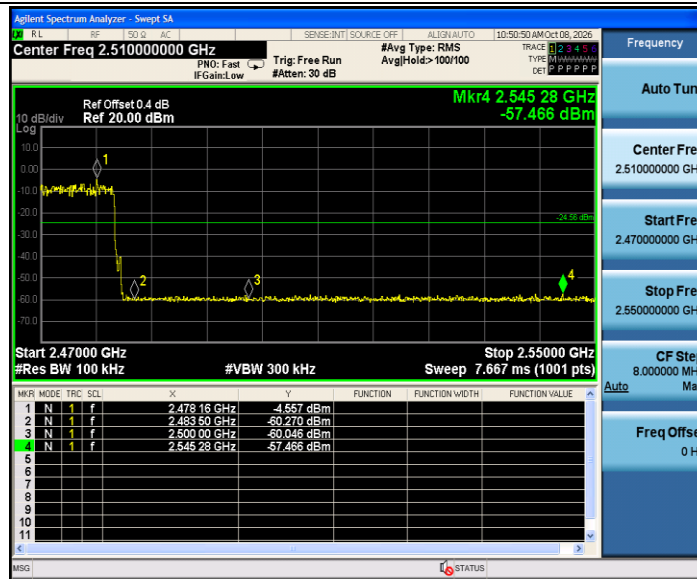
2DH5_Ant1_High_2480



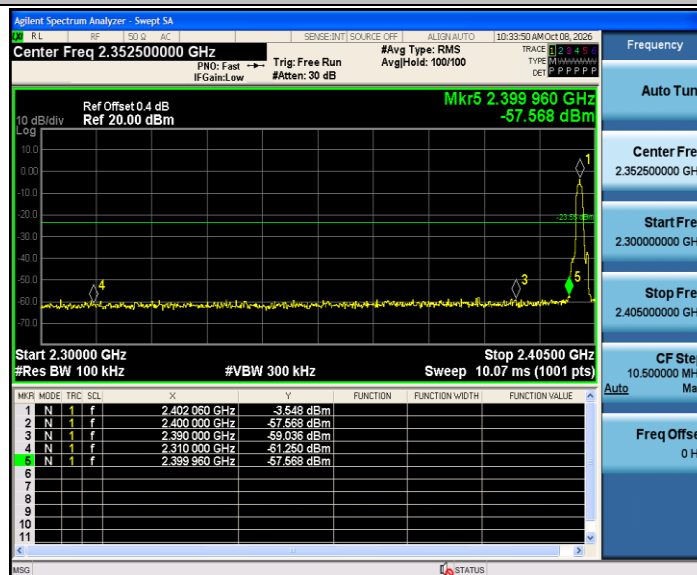
2DH5_Ant1_Low_Hop_2402



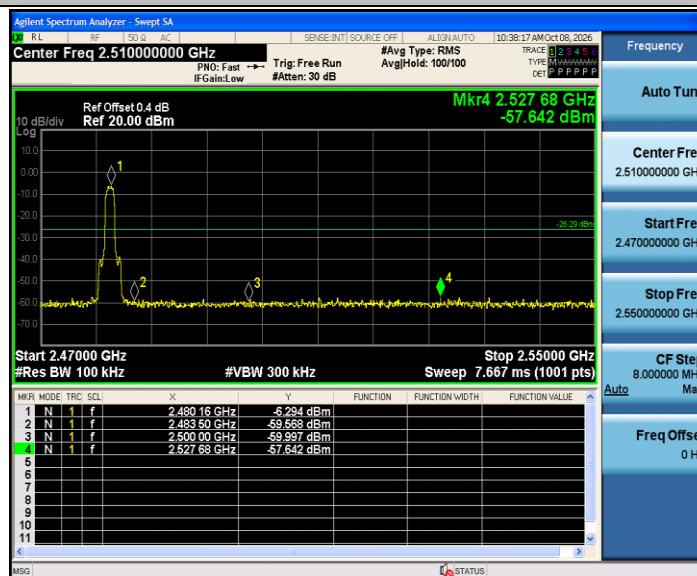
2DH5_Ant1_High_Hop_2480



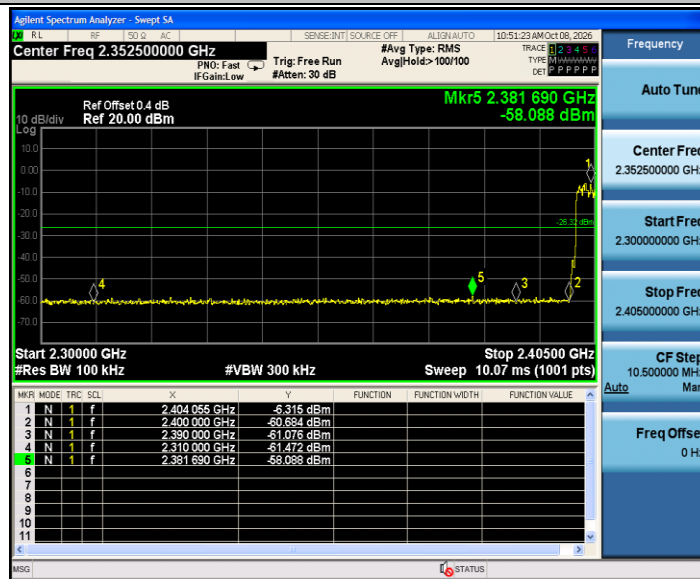
3DH5_Ant1_Low_2402



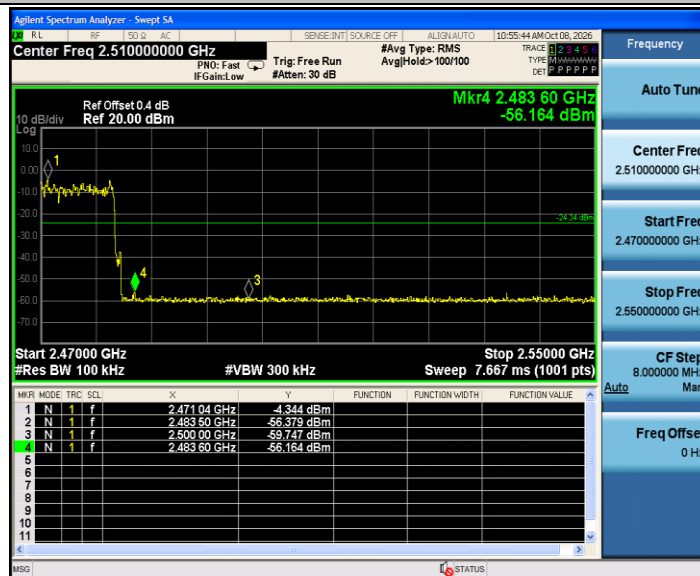
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

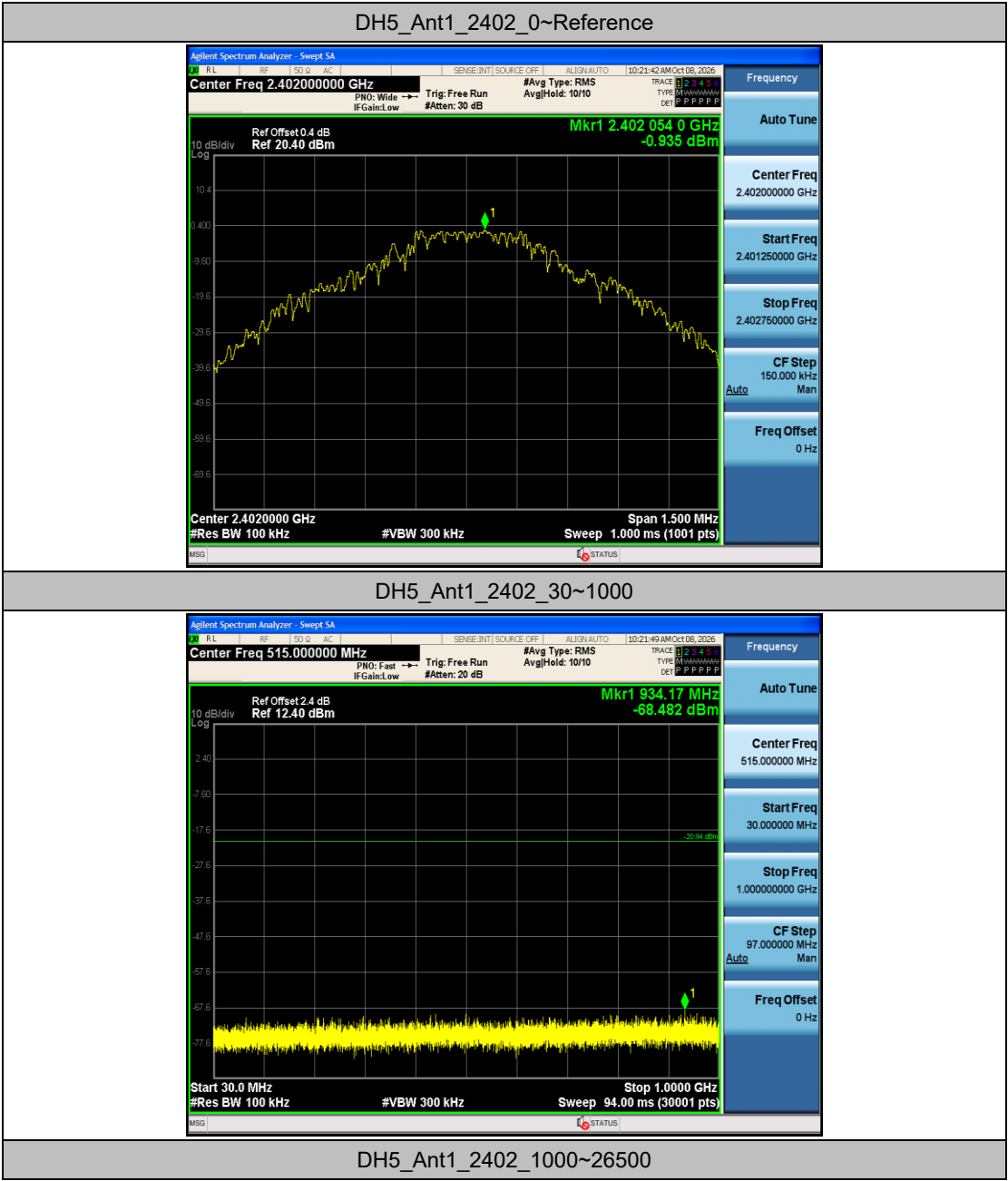


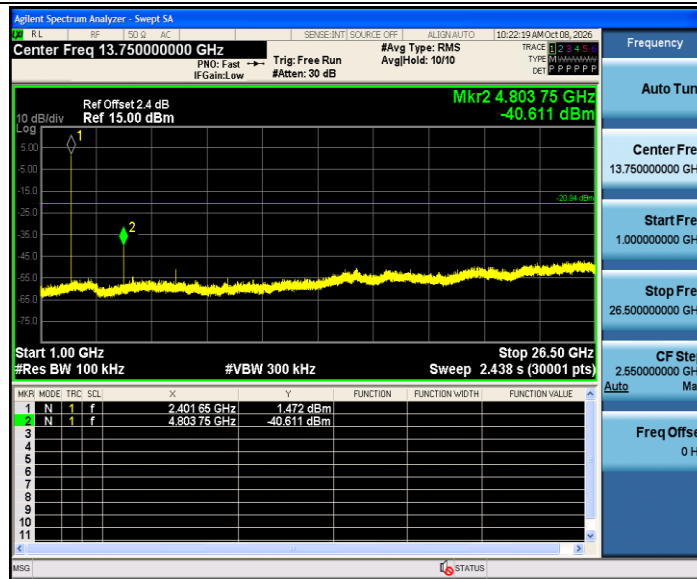
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.94	-0.94	---	PASS
			30~1000	-0.94	-68.48	≤-20.94	PASS
			1000~26500	-0.94	-40.61	≤-20.94	PASS
		2441	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-69.07	≤-20.82	PASS
			1000~26500	-0.82	-40.39	≤-20.82	PASS
		2480	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-68.93	≤-21.11	PASS
			1000~26500	-1.11	-42.75	≤-21.11	PASS
2DH5	Ant1	2402	Reference	-5.99	-5.99	---	PASS
			30~1000	-5.99	-69.11	≤-25.99	PASS
			1000~26500	-5.99	-46.27	≤-25.99	PASS
		2441	Reference	-5.26	-5.26	---	PASS
			30~1000	-5.26	-49.28	≤-25.26	PASS
			1000~26500	-5.26	-46.3	≤-25.26	PASS
		2480	Reference	-4.06	-4.06	---	PASS
			30~1000	-4.06	-68.61	≤-24.06	PASS
			1000~26500	-4.06	-47.16	≤-24.06	PASS
3DH5	Ant1	2402	Reference	-6.65	-6.65	---	PASS
			30~1000	-6.65	-48.75	≤-26.65	PASS
			1000~26500	-6.65	-44.04	≤-26.65	PASS
		2441	Reference	-5.18	-5.18	---	PASS
			30~1000	-5.18	-48.02	≤-25.18	PASS
			1000~26500	-5.18	-46.38	≤-25.18	PASS
		2480	Reference	-6.47	-6.47	---	PASS
			30~1000	-6.47	-52.35	≤-26.47	PASS
			1000~26500	-6.47	-44.54	≤-26.47	PASS

Test Graphs

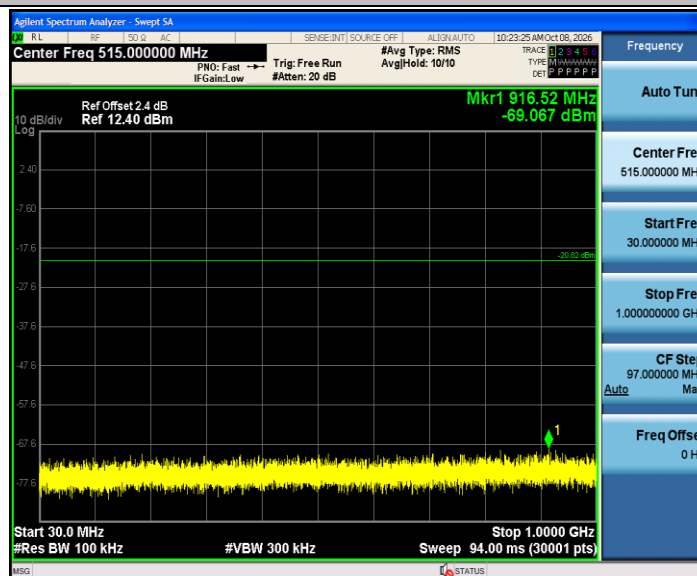




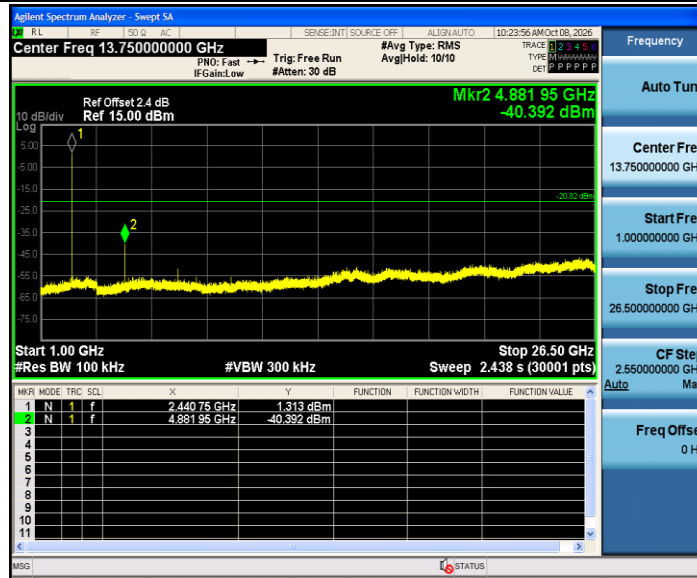
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



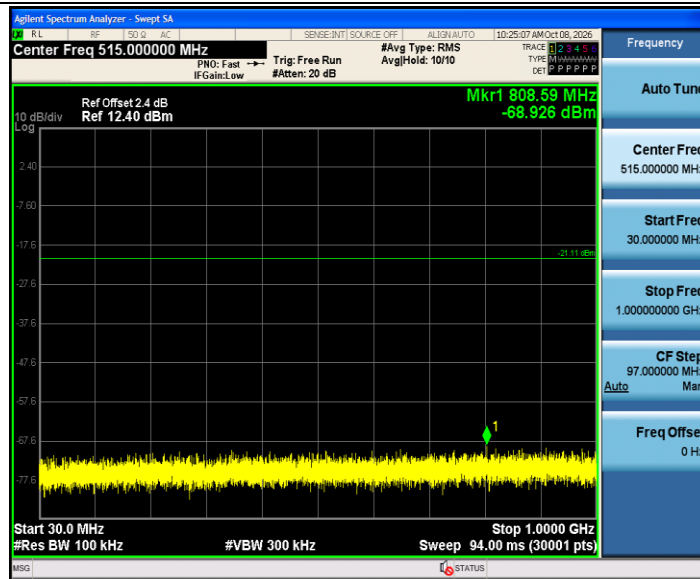
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



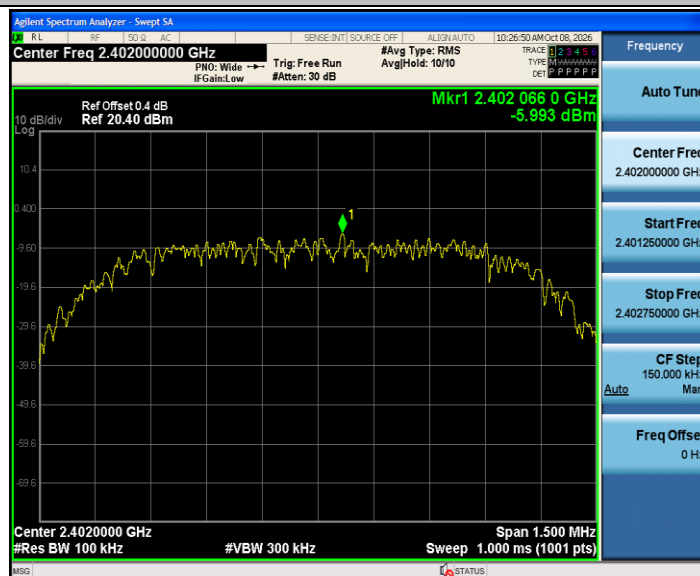
DH5_Ant1_2480_30~1000



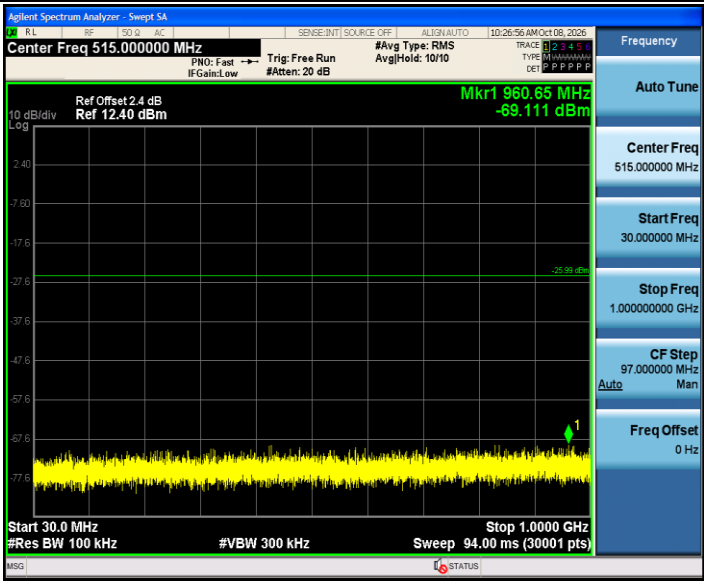
DH5_Ant1_2480_1000~26500



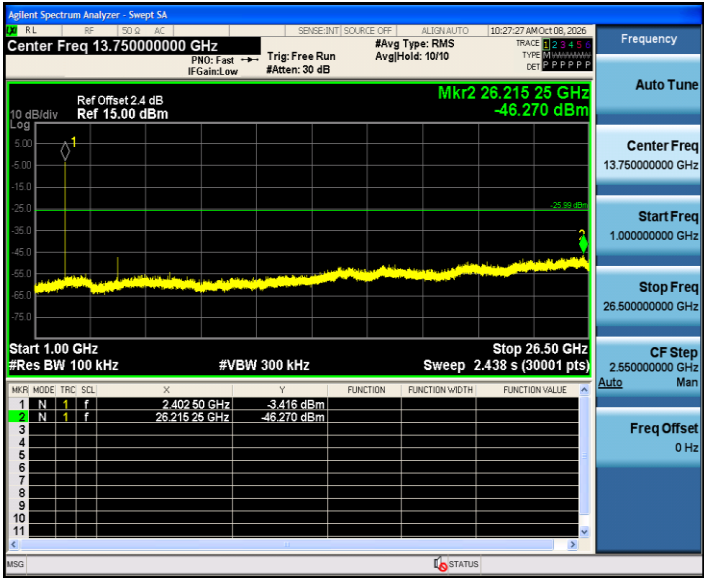
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference