

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: TROLLEY SPEAKER

Test Model: SW159

Environmental Conditions

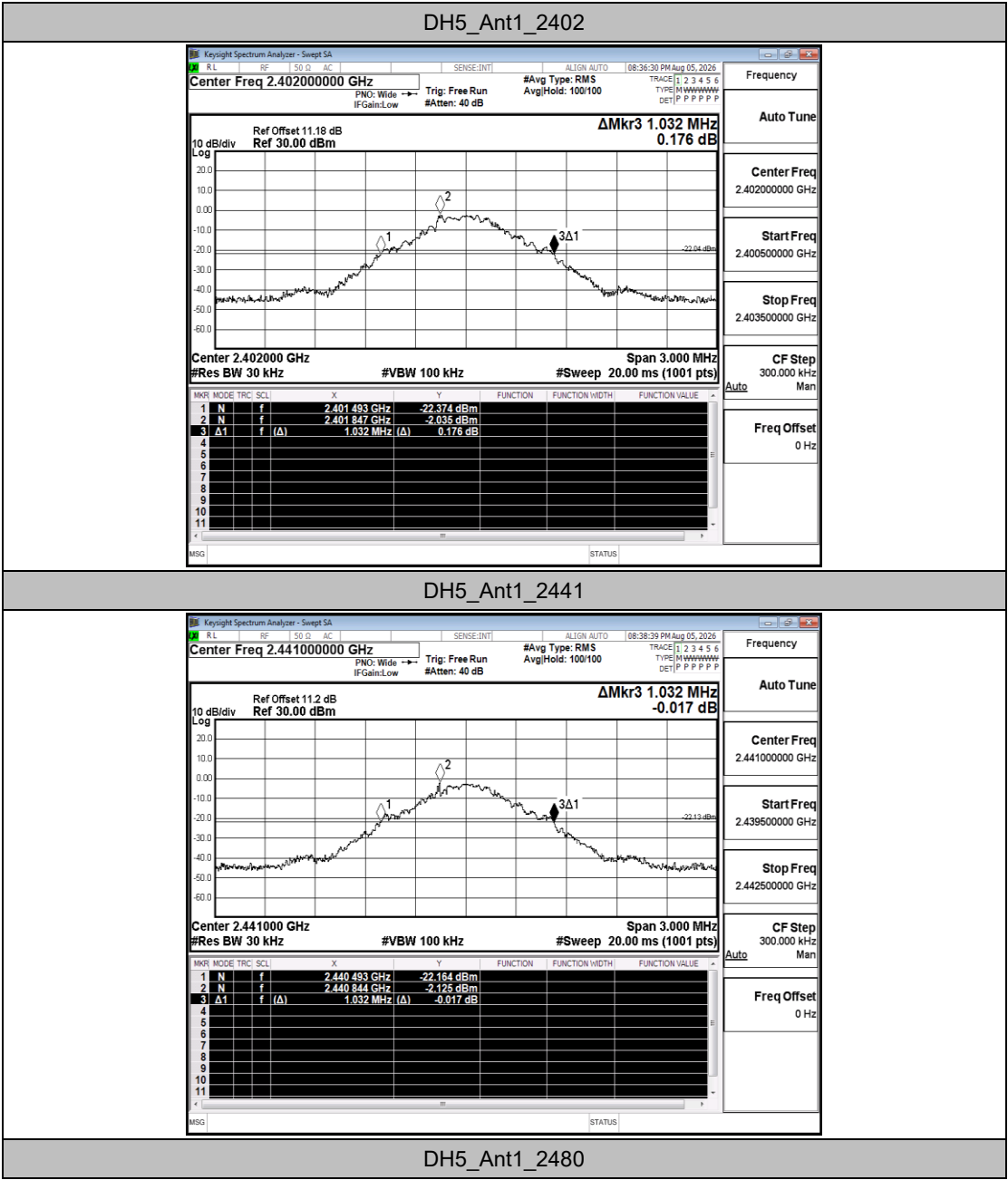
Temperature:	23.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

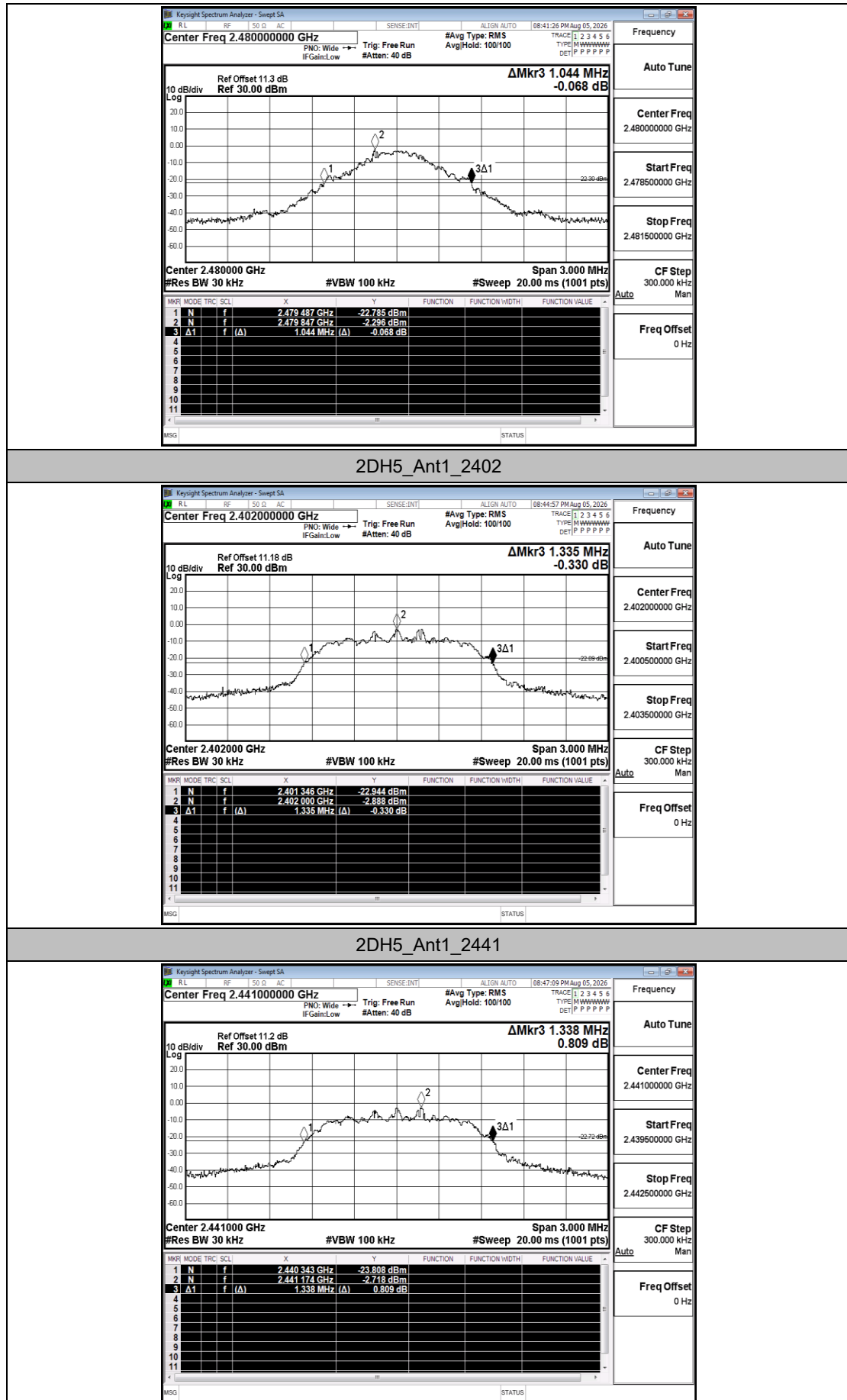
A.1 20dB Emission Bandwidth

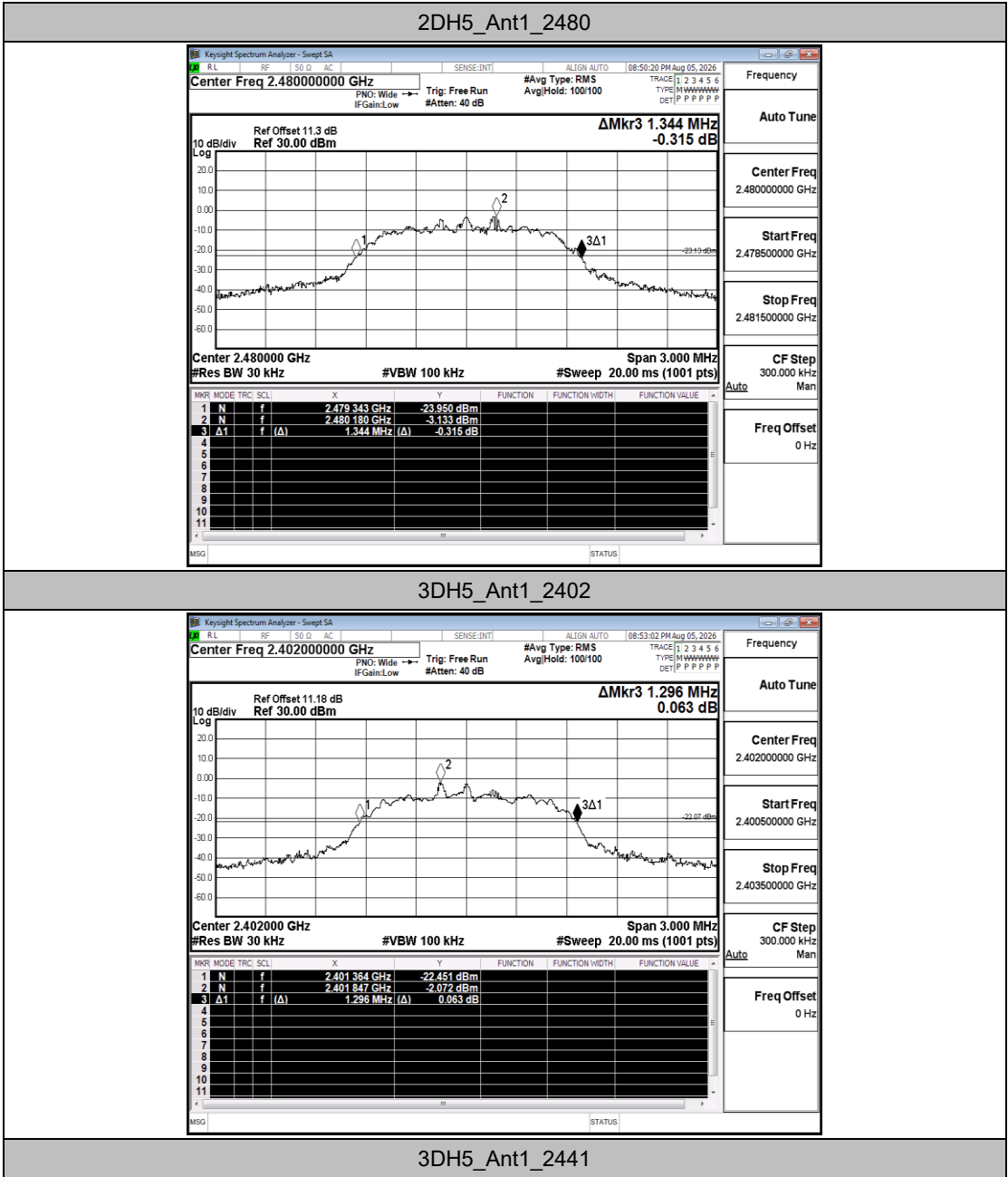
Test Result

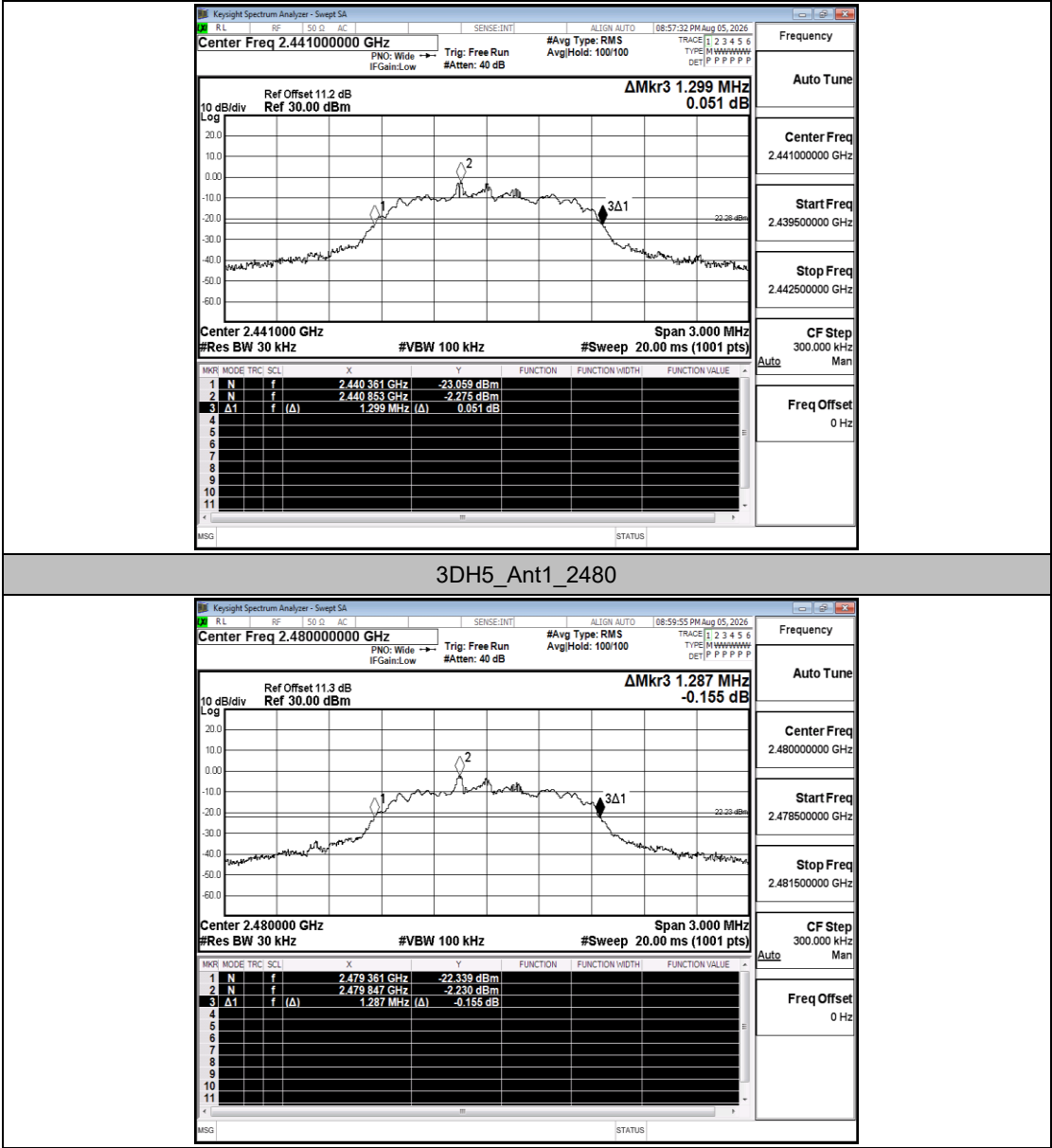
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	1.032	2401.493	2402.525	---	---
		2441	1.032	2440.493	2441.525	---	---
		2480	1.044	2479.487	2480.531	---	---
2DH5	Ant1	2402	1.335	2401.346	2402.681	---	---
		2441	1.338	2440.343	2441.681	---	---
		2480	1.344	2479.343	2480.687	---	---
3DH5	Ant1	2402	1.296	2401.364	2402.660	---	---
		2441	1.299	2440.361	2441.660	---	---
		2480	1.287	2479.361	2480.648	---	---

Test Graphs







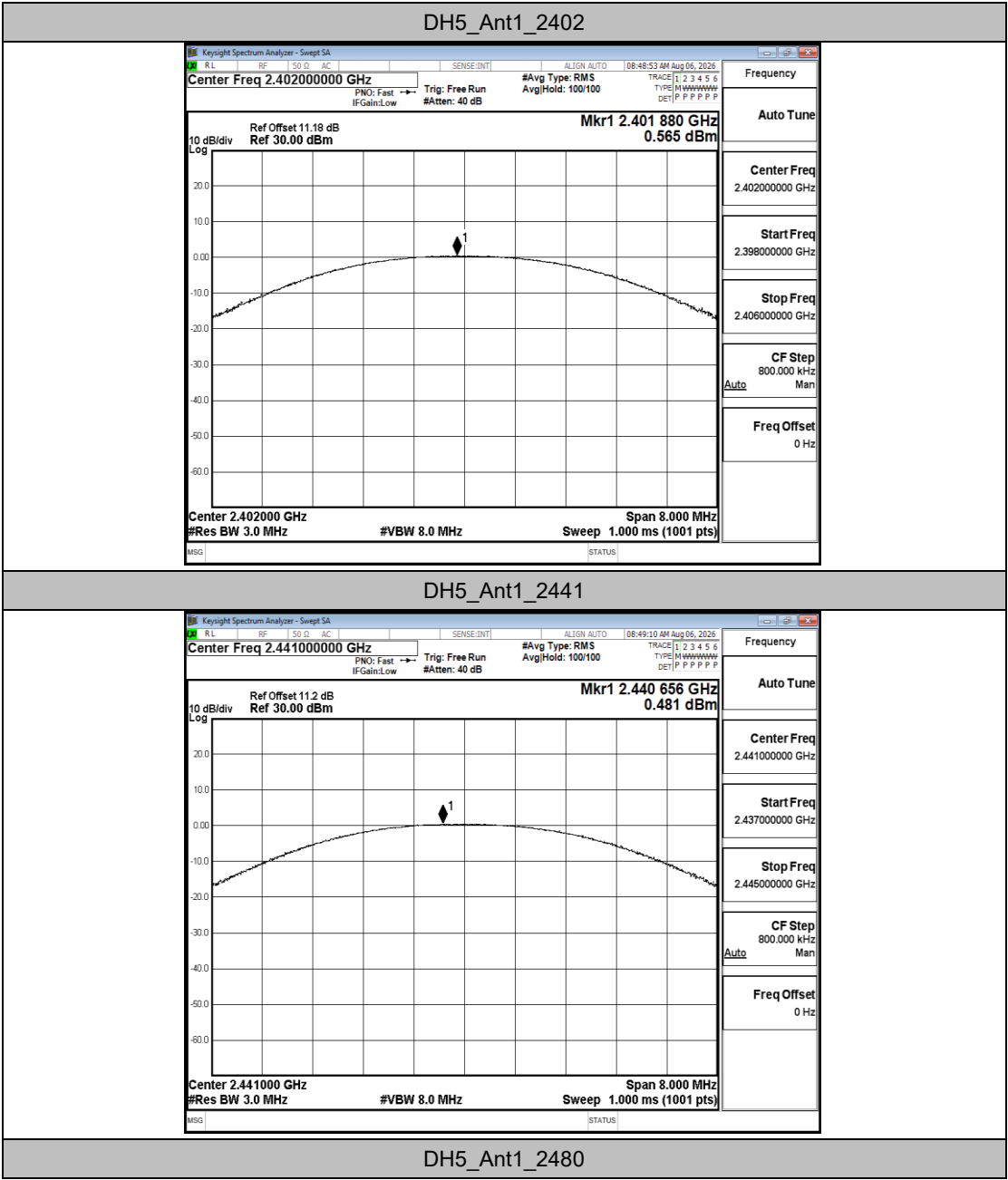


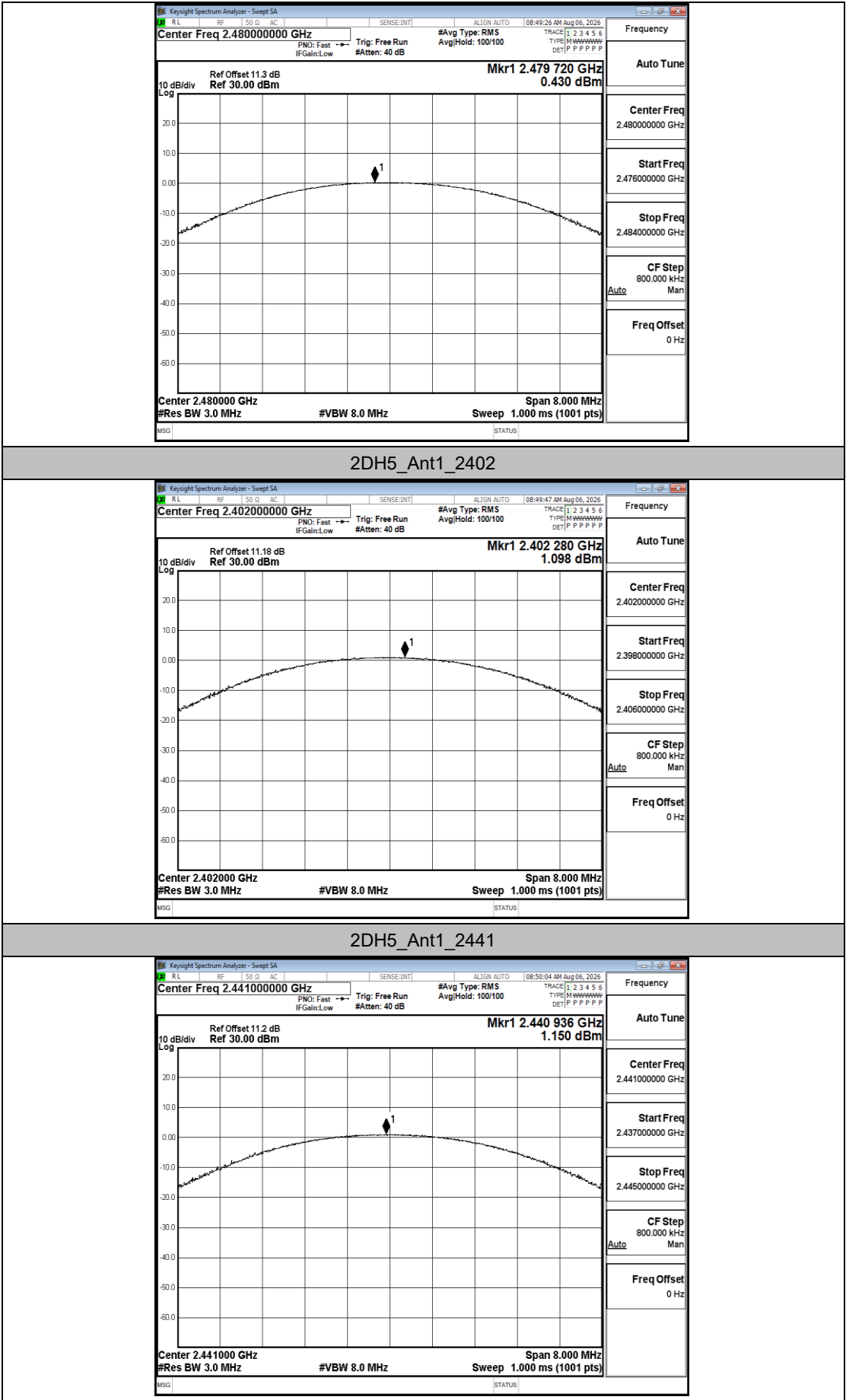
A.2 Maximum Peak conducted output power

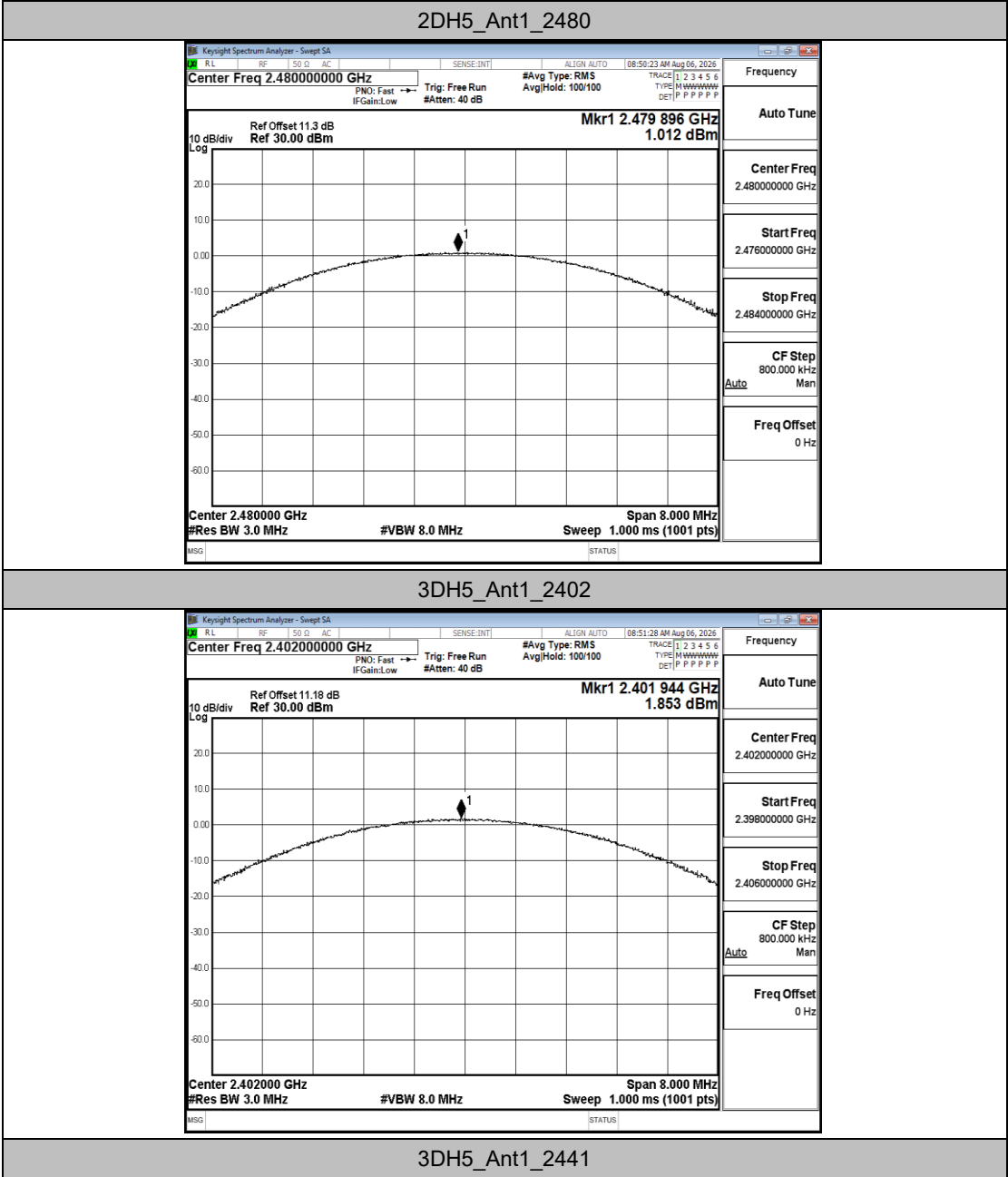
Test Result Peak

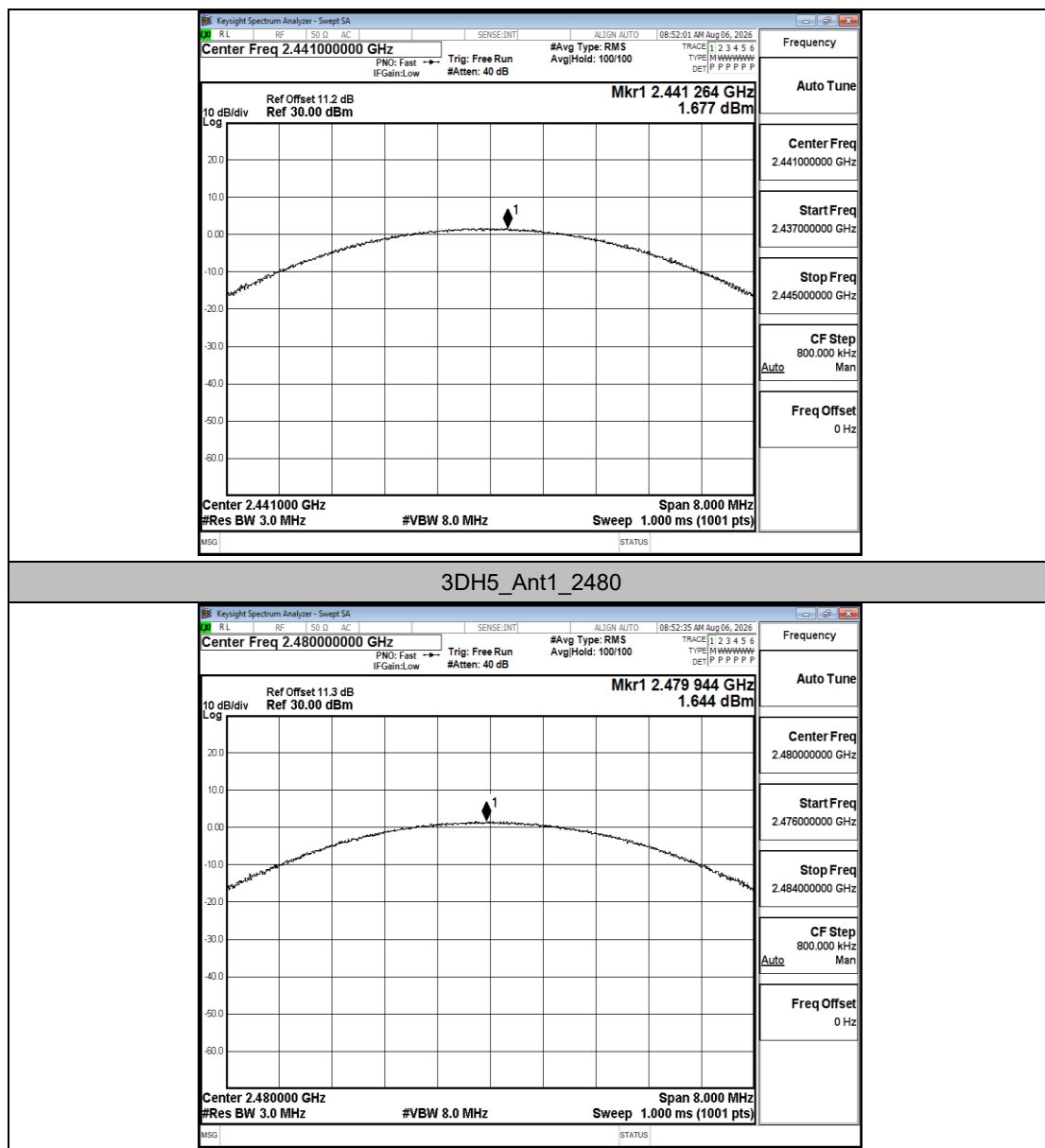
Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.57	≤20.97	PASS
		2441	0.48	≤20.97	PASS
		2480	0.43	≤20.97	PASS
2DH5	Ant1	2402	1.10	≤20.97	PASS
		2441	1.15	≤20.97	PASS
		2480	1.01	≤20.97	PASS
3DH5	Ant1	2402	1.85	≤20.97	PASS
		2441	1.68	≤20.97	PASS
		2480	1.64	≤20.97	PASS

Test Graphs







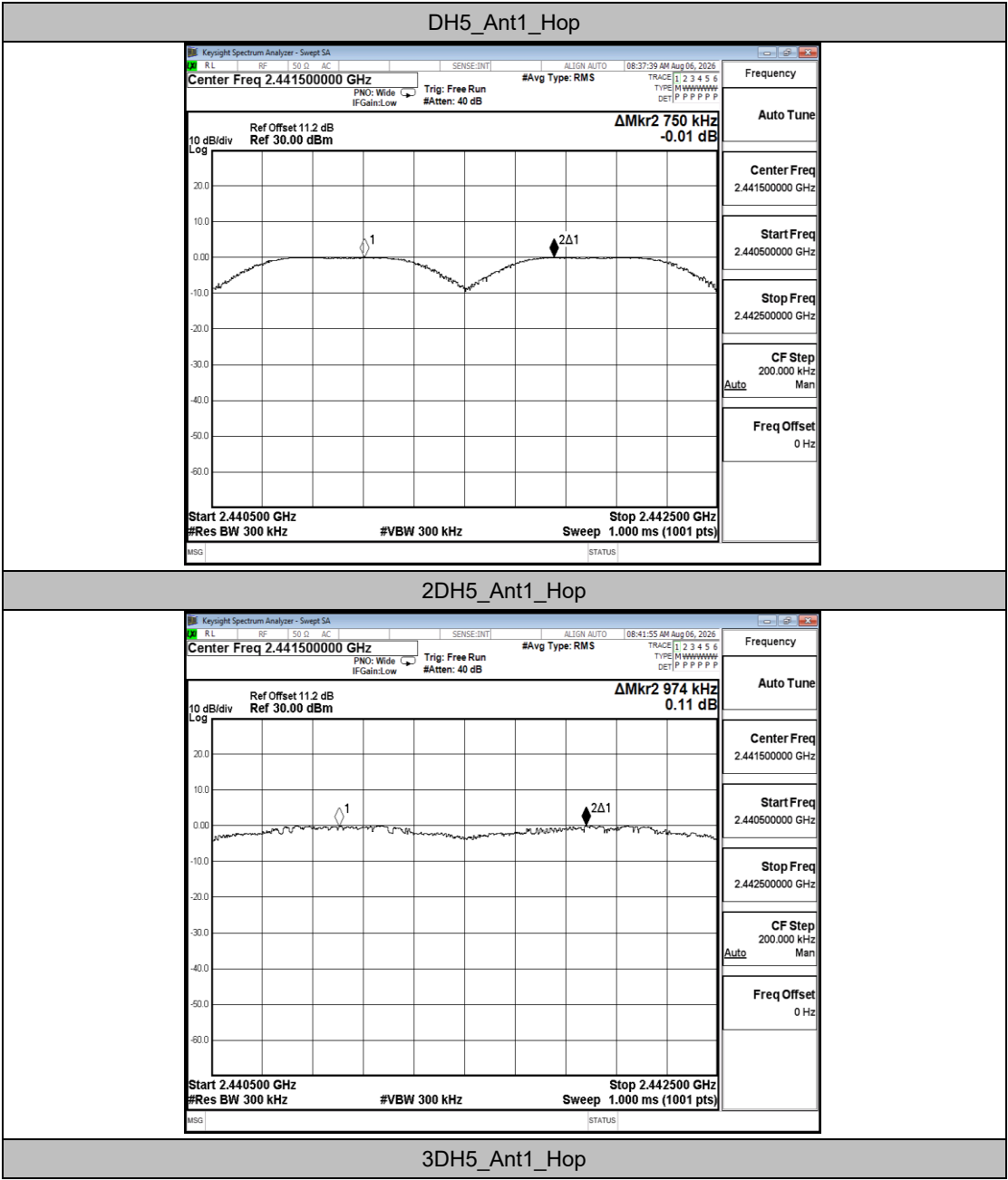


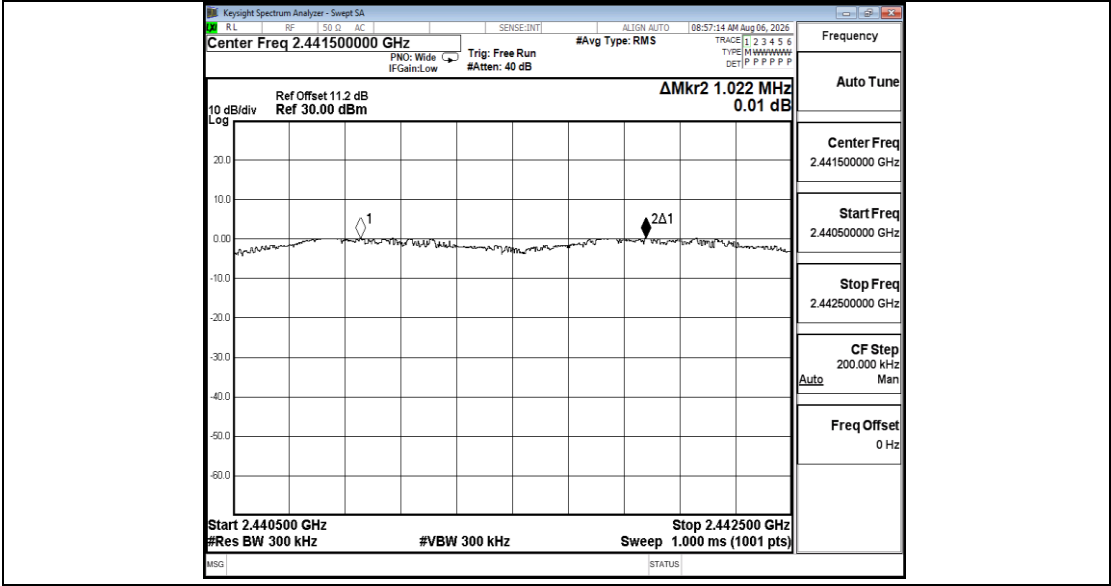
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.75	≥ 0.696	PASS
2DH5	Ant1	Hop	0.974	≥ 0.896	PASS
3DH5	Ant1	Hop	1.022	≥ 0.866	PASS

Test Graphs



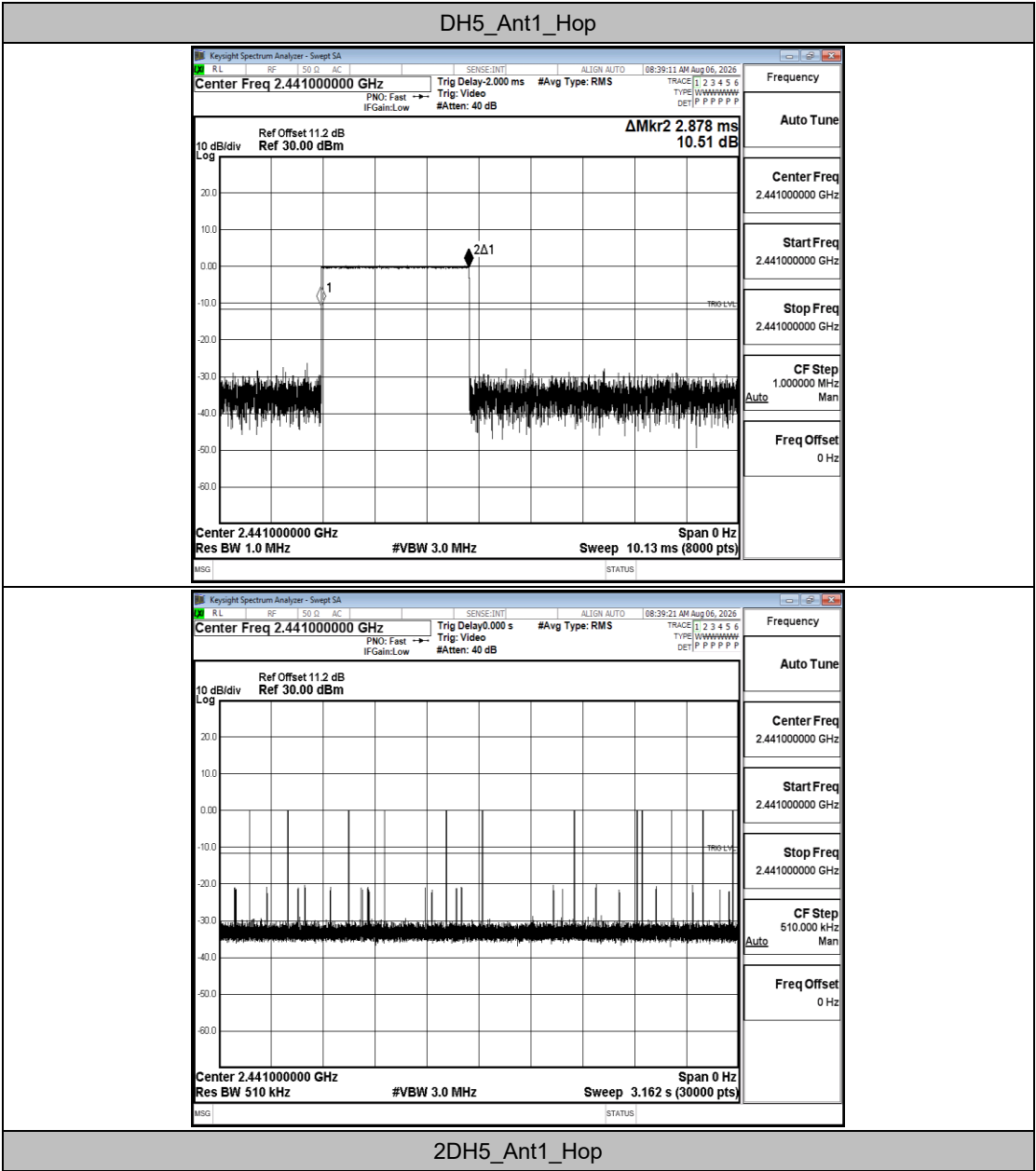


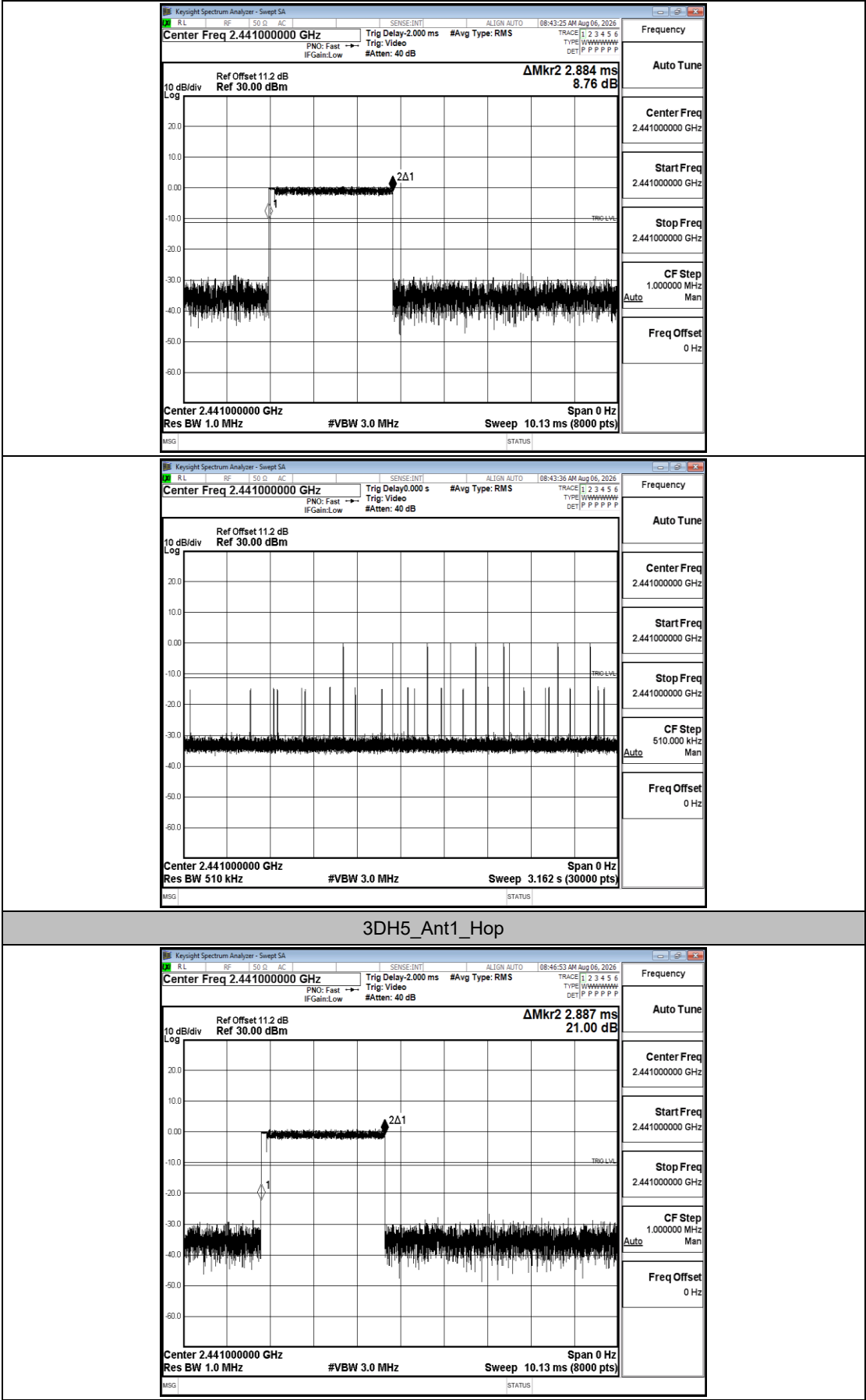
A.4 Time of occupancy

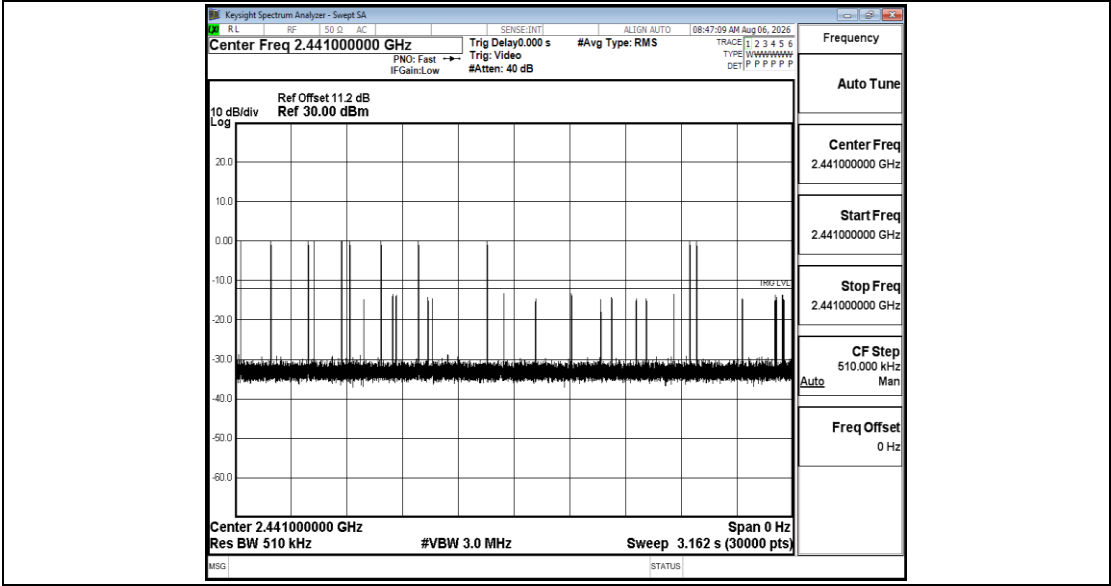
Test Result

TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.878	130	0.374	≤0.4	PASS
2DH5	Ant1	Hop	2.884	100	0.288	≤0.4	PASS
3DH5	Ant1	Hop	2.887	120	0.346	≤0.4	PASS

Test Graphs





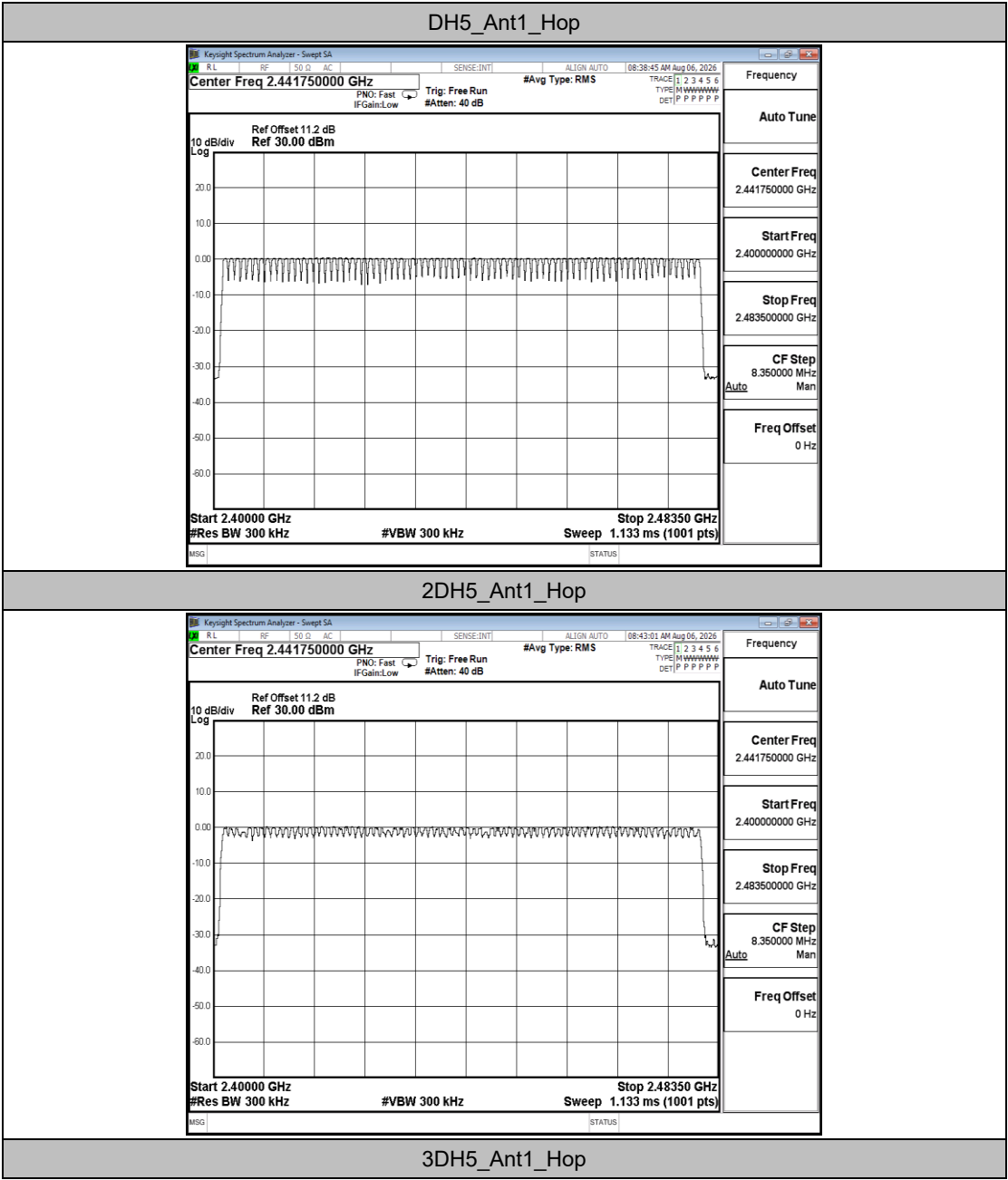


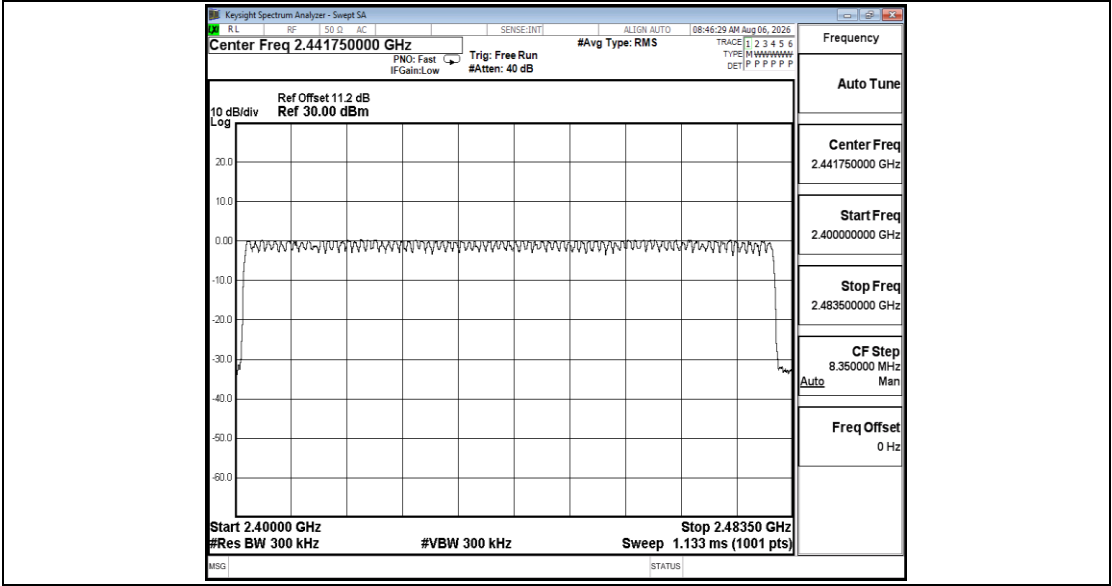
A.5 Number of hopping channels

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



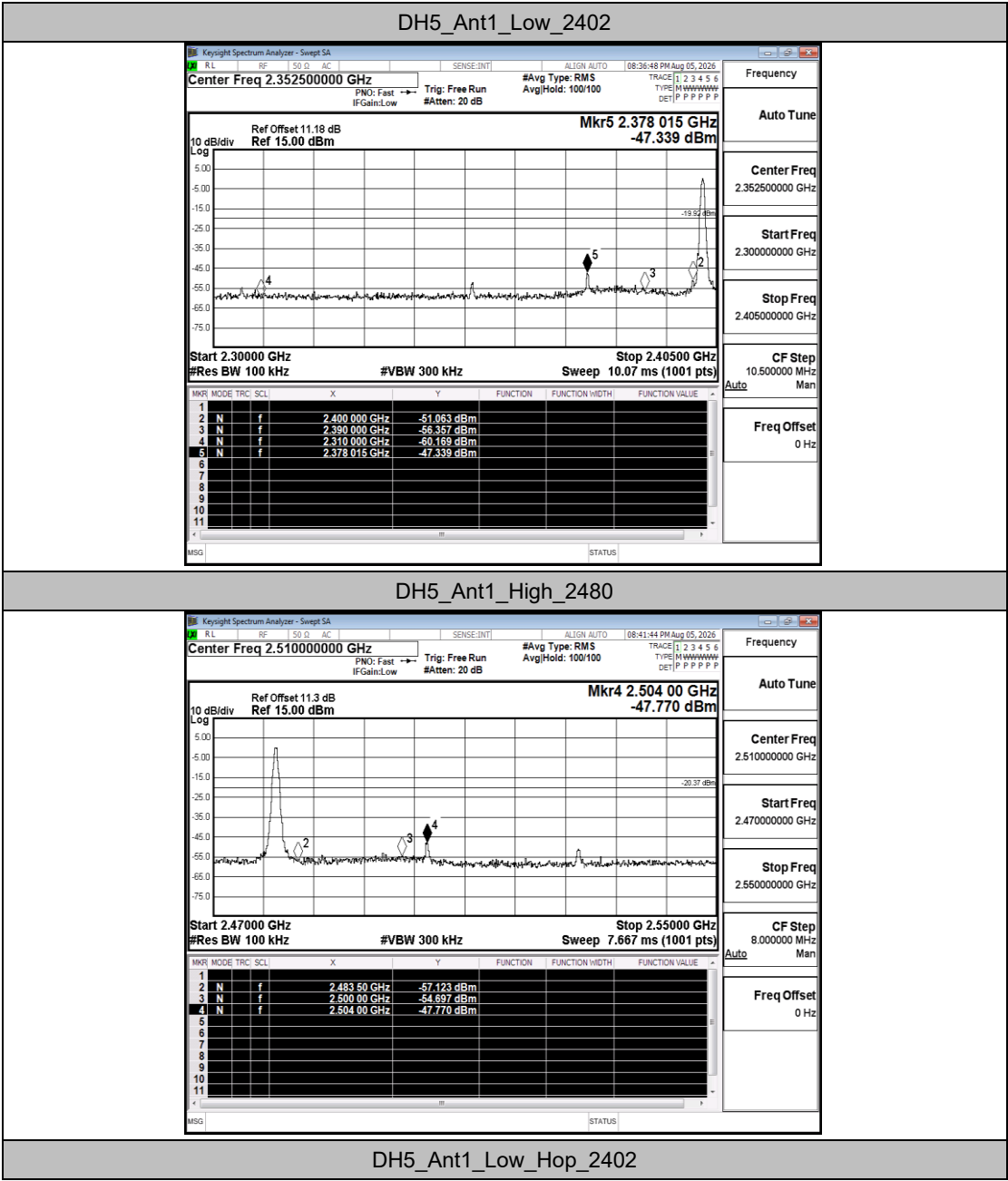


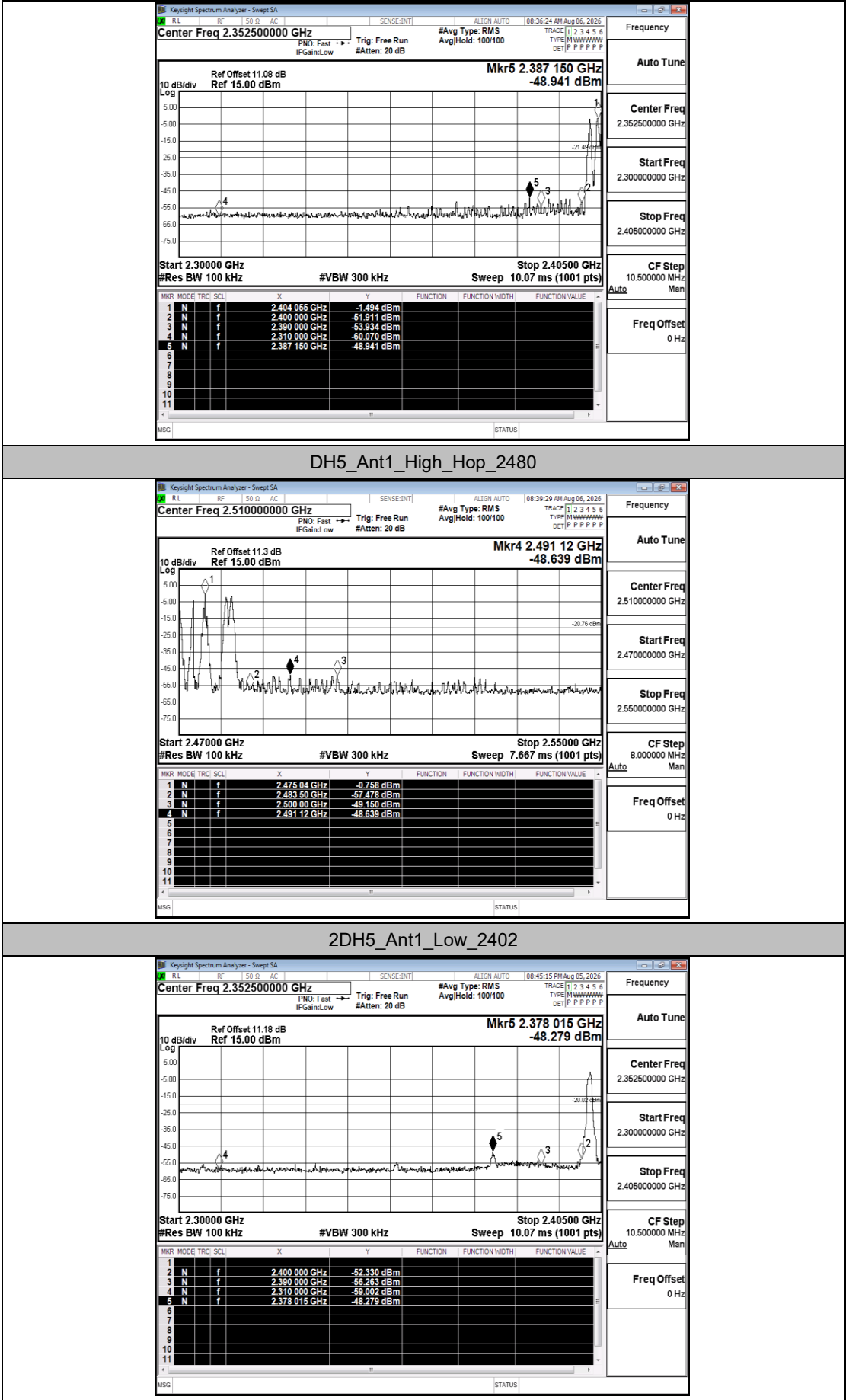
A.6 Band edge measurements

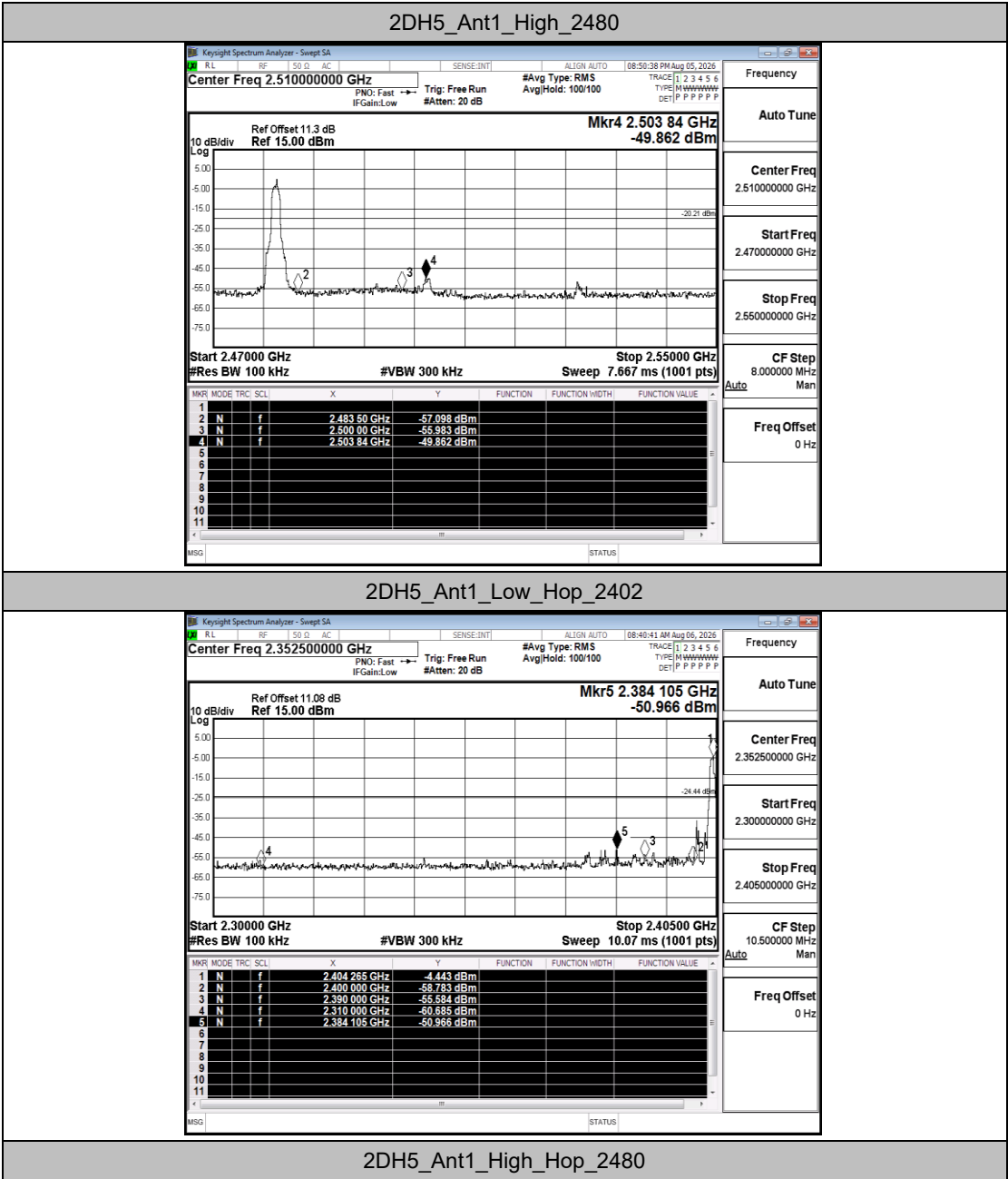
Test Result

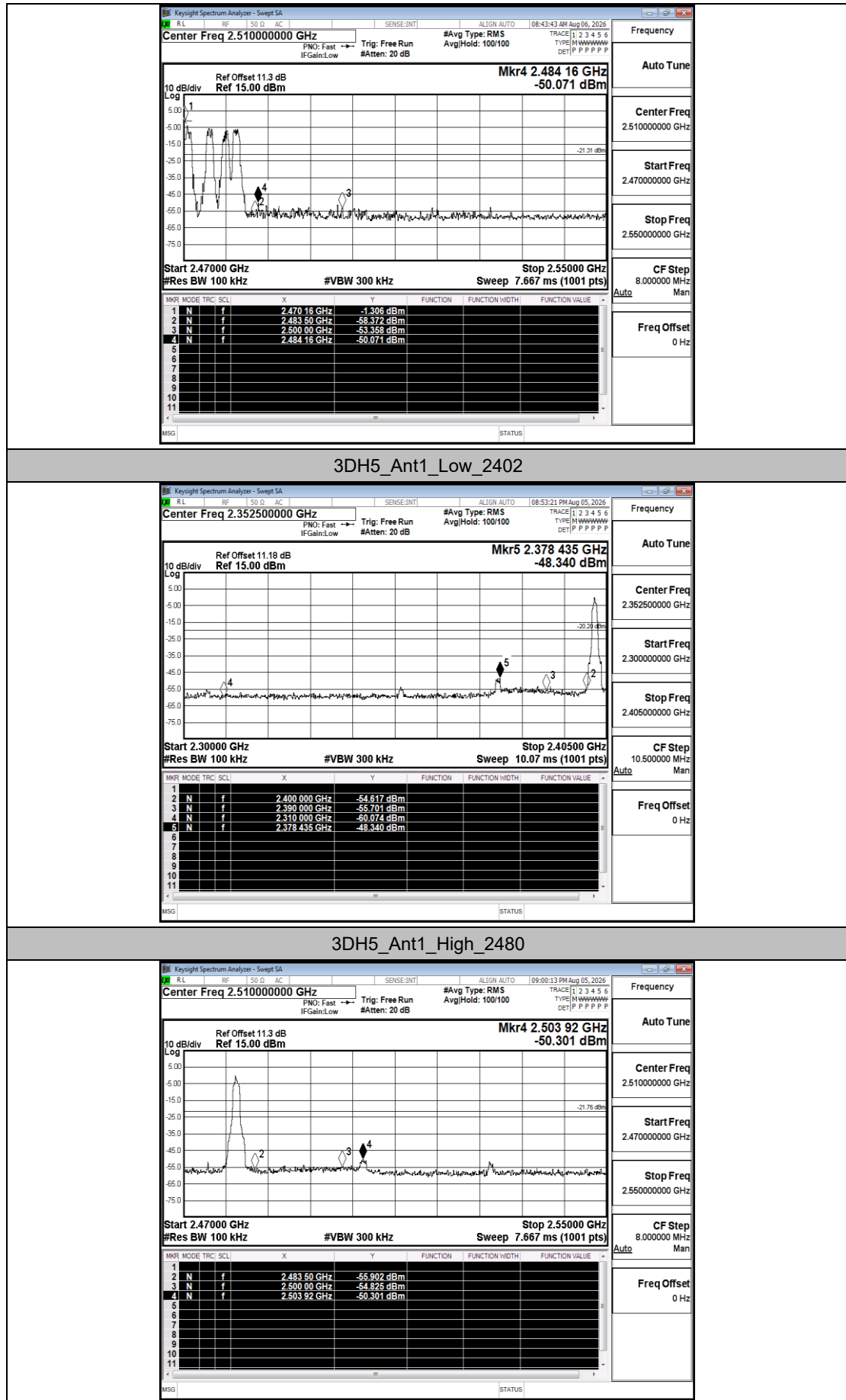
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.08	-47.34	≤ -19.92	PASS
		High	2480	-0.37	-47.77	≤ -20.37	PASS
		Low	Hop_2402	-1.49	-48.94	≤ -21.49	PASS
		High	Hop_2480	-0.76	-48.64	≤ -20.76	PASS
2DH5	Ant1	Low	2402	-0.02	-48.28	≤ -20.02	PASS
		High	2480	-0.21	-49.86	≤ -20.21	PASS
		Low	Hop_2402	-4.44	-50.97	≤ -24.44	PASS
		High	Hop_2480	-1.31	-50.07	≤ -21.31	PASS
3DH5	Ant1	Low	2402	-0.20	-48.34	≤ -20.2	PASS
		High	2480	-1.76	-50.3	≤ -21.76	PASS
		Low	Hop_2402	-4.59	-51.69	≤ -24.59	PASS
		High	Hop_2480	-2.61	-50.2	≤ -22.61	PASS

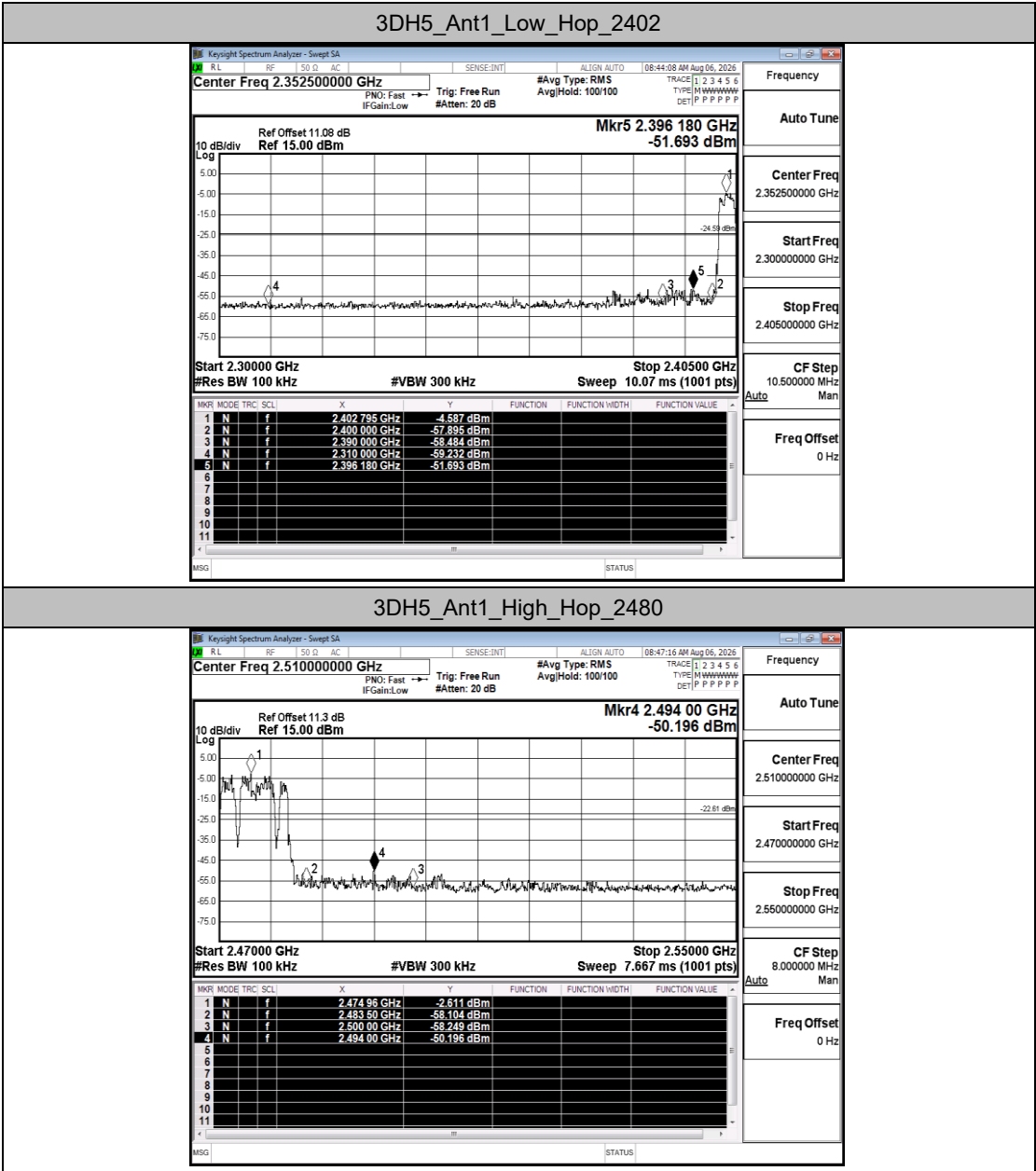
Test Graphs











A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.15	0.15	---	PASS
			30~1000	0.15	-69.4	≤-19.85	PASS
			1000~26500	0.15	-33.89	≤-19.85	PASS
		2441	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-70.58	≤-19.95	PASS
			1000~26500	0.05	-32.07	≤-19.95	PASS
		2480	Reference	-0.13	-0.13	---	PASS
			30~1000	-0.13	-69.45	≤-20.13	PASS
			1000~26500	-0.13	-30.31	≤-20.13	PASS
2DH5	Ant1	2402	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-69.65	≤-19.88	PASS
			1000~26500	0.12	-32.26	≤-19.88	PASS
		2441	Reference	0.02	0.02	---	PASS
			30~1000	0.02	-70.26	≤-19.98	PASS
			1000~26500	0.02	-35.26	≤-19.98	PASS
		2480	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-69.98	≤-20.14	PASS
			1000~26500	-0.14	-33.41	≤-20.14	PASS
3DH5	Ant1	2402	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-69.69	≤-19.87	PASS
			1000~26500	0.13	-31.95	≤-19.87	PASS
		2441	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-68.58	≤-19.96	PASS
			1000~26500	0.04	-34.22	≤-19.96	PASS
		2480	Reference	-0.13	-0.13	---	PASS
			30~1000	-0.13	-69.97	≤-20.13	PASS
			1000~26500	-0.13	-34.03	≤-20.13	PASS

Test Graphs

