

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: BoomBox

Test Model: SW162

Environmental Conditions

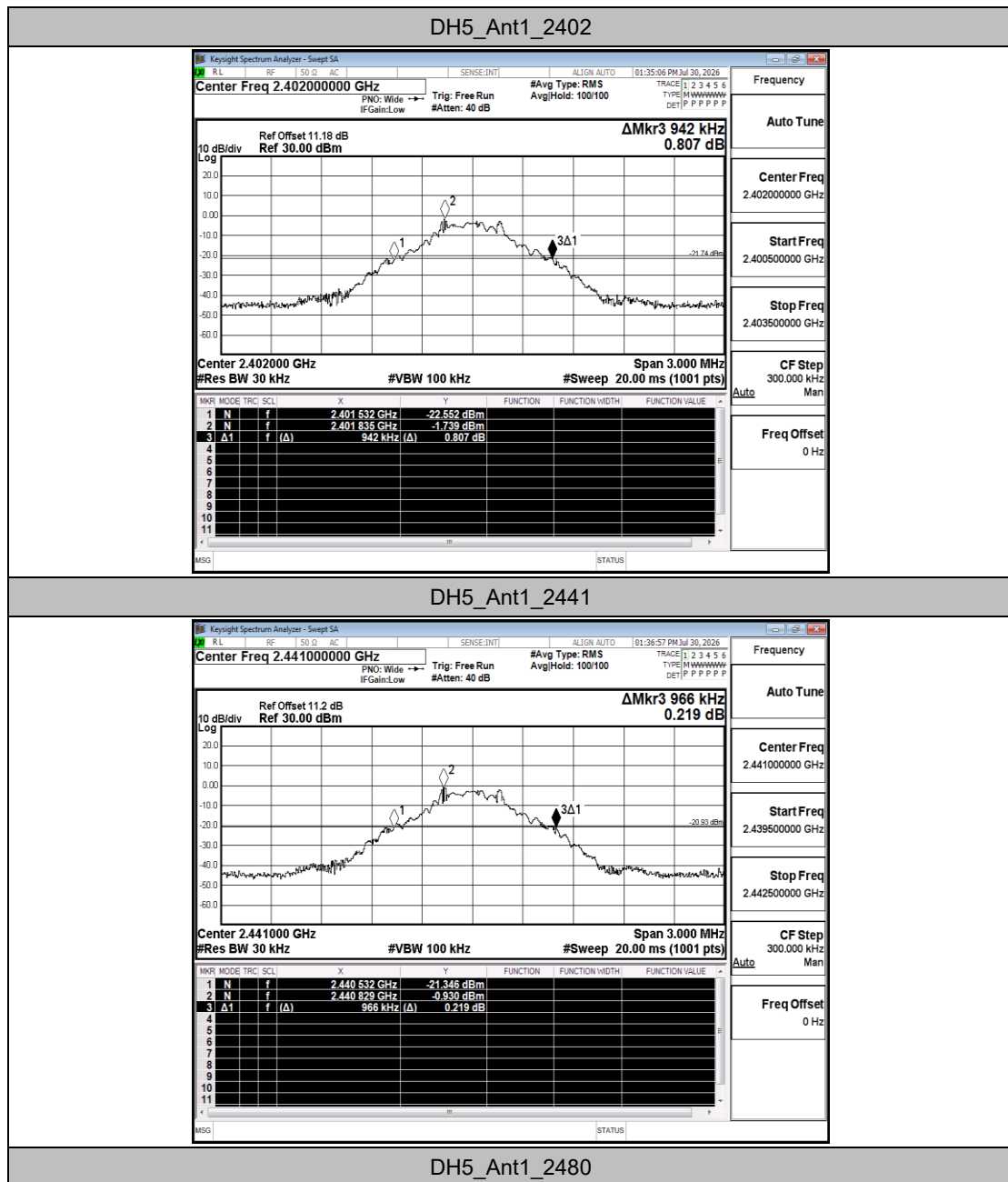
Temperature:	23.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

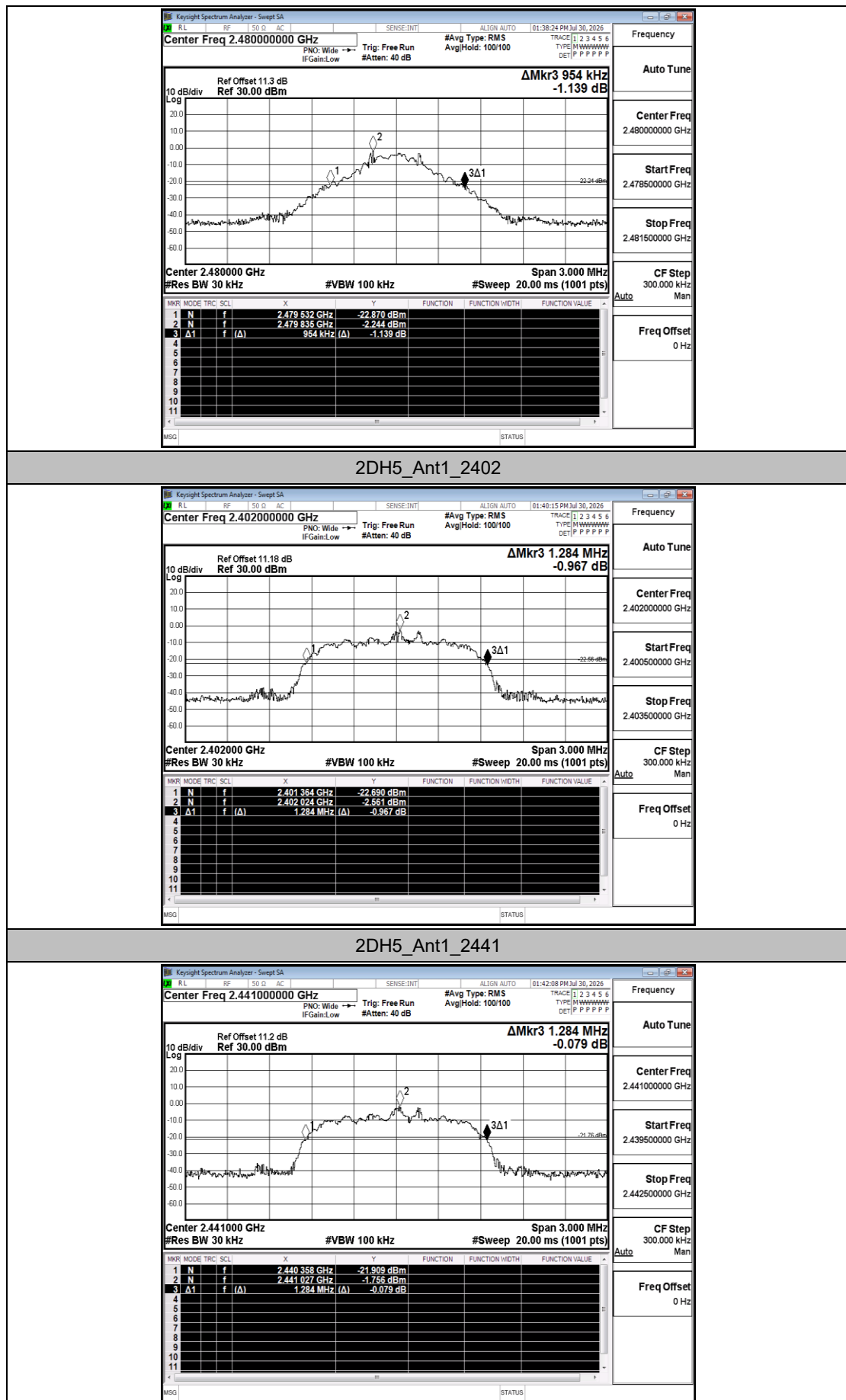
A.1 20dB Emission Bandwidth

Test Result

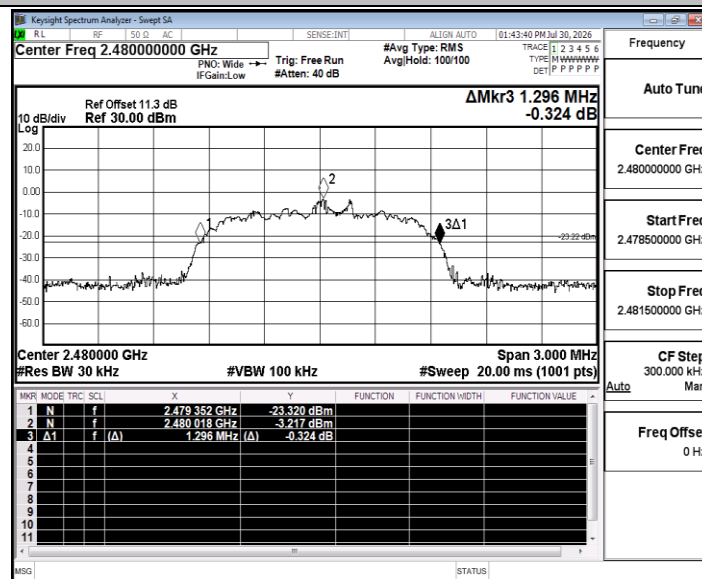
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.942	2401.532	2402.474	---	---
		2441	0.966	2440.532	2441.498	---	---
		2480	0.954	2479.532	2480.486	---	---
2DH5	Ant1	2402	1.284	2401.364	2402.648	---	---
		2441	1.284	2440.358	2441.642	---	---
		2480	1.296	2479.352	2480.648	---	---
3DH5	Ant1	2402	1.299	2401.346	2402.645	---	---
		2441	1.299	2440.346	2441.645	---	---
		2480	1.296	2479.346	2480.642	---	---

Test Graphs

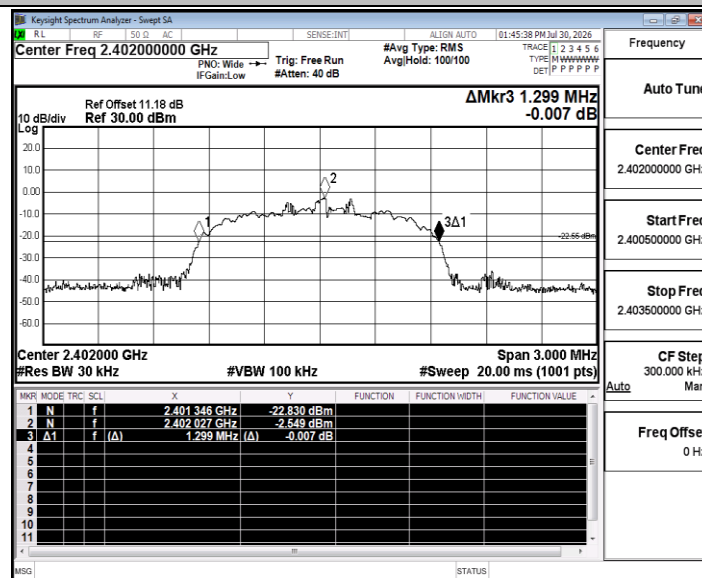




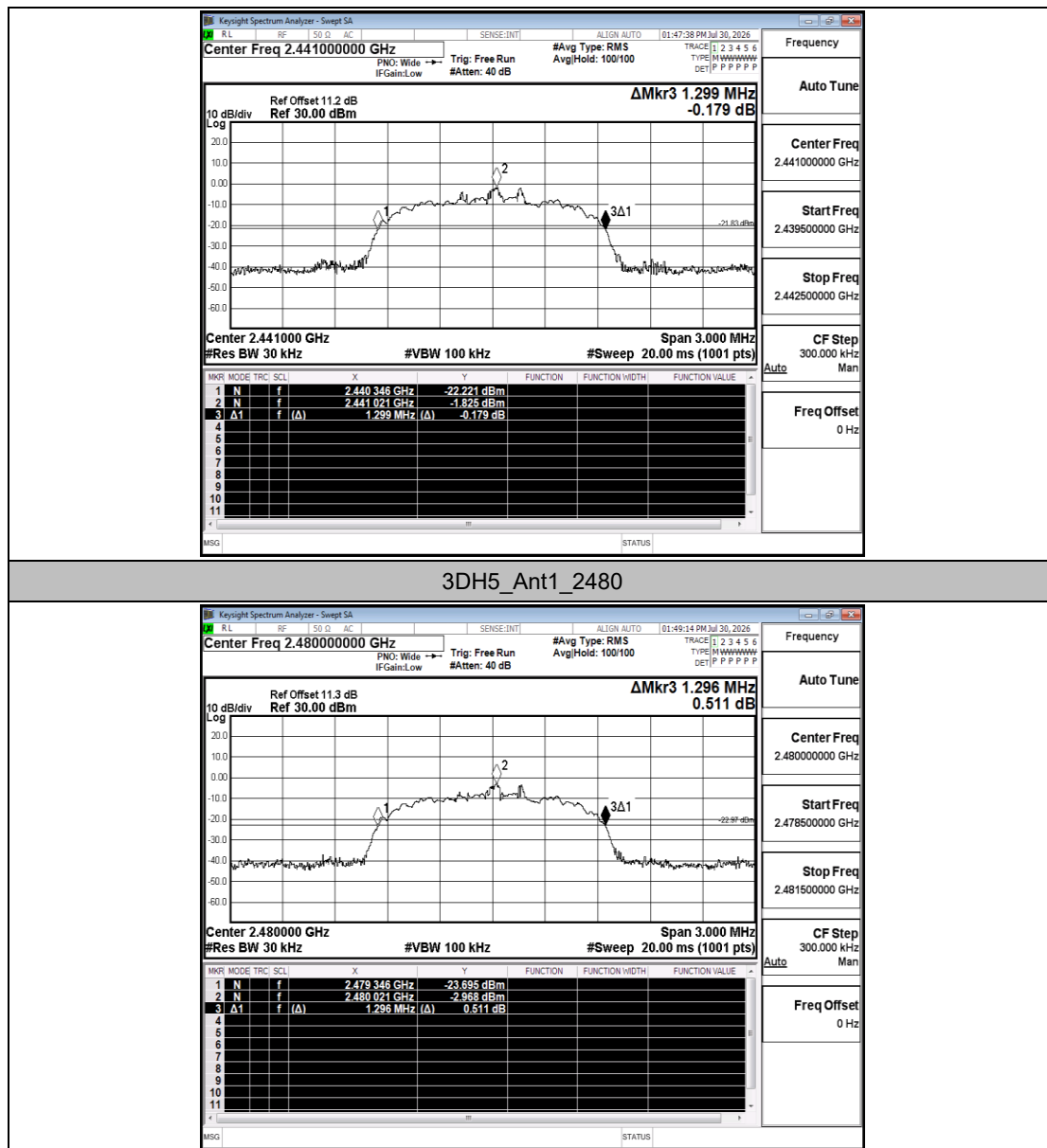
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

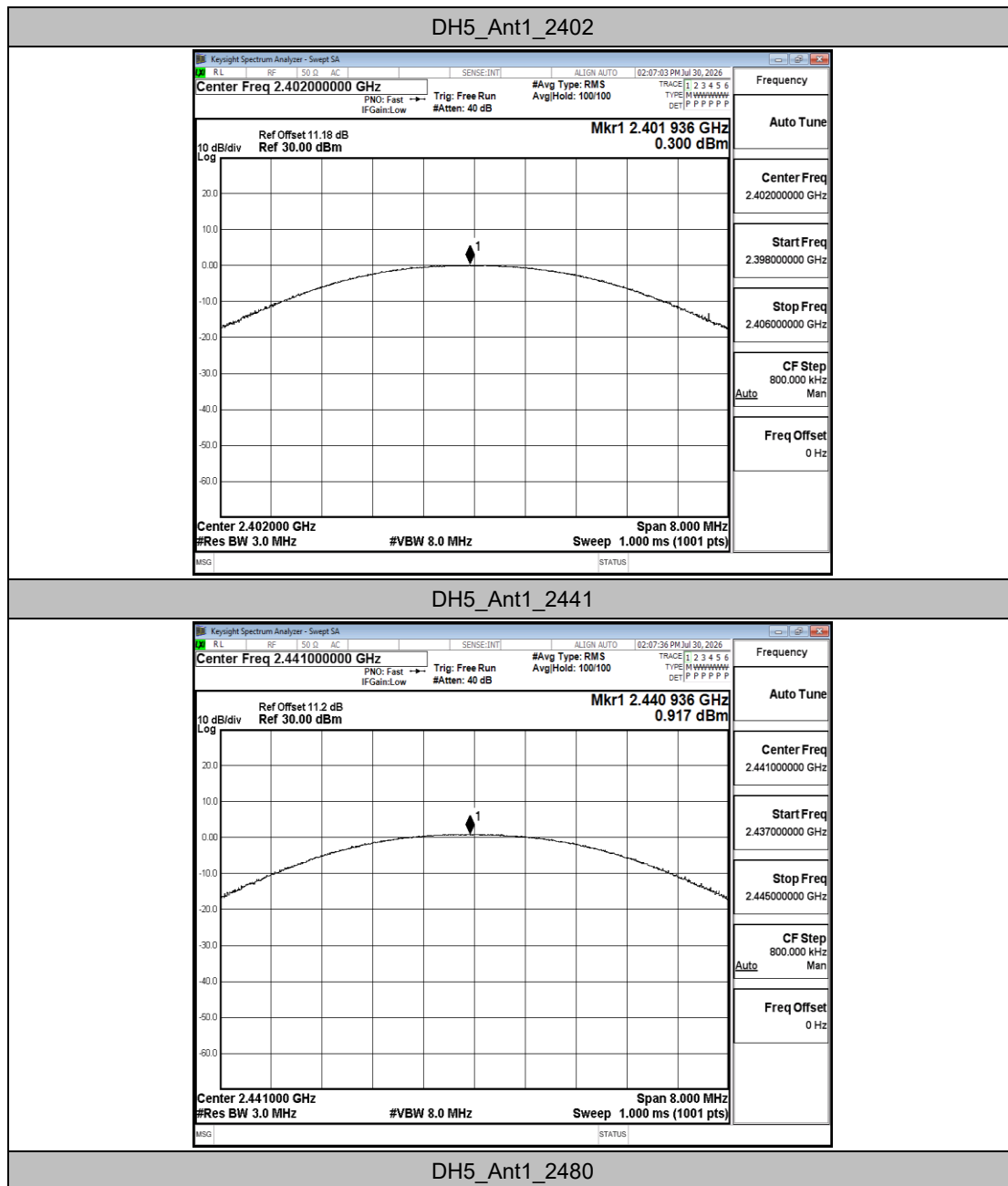


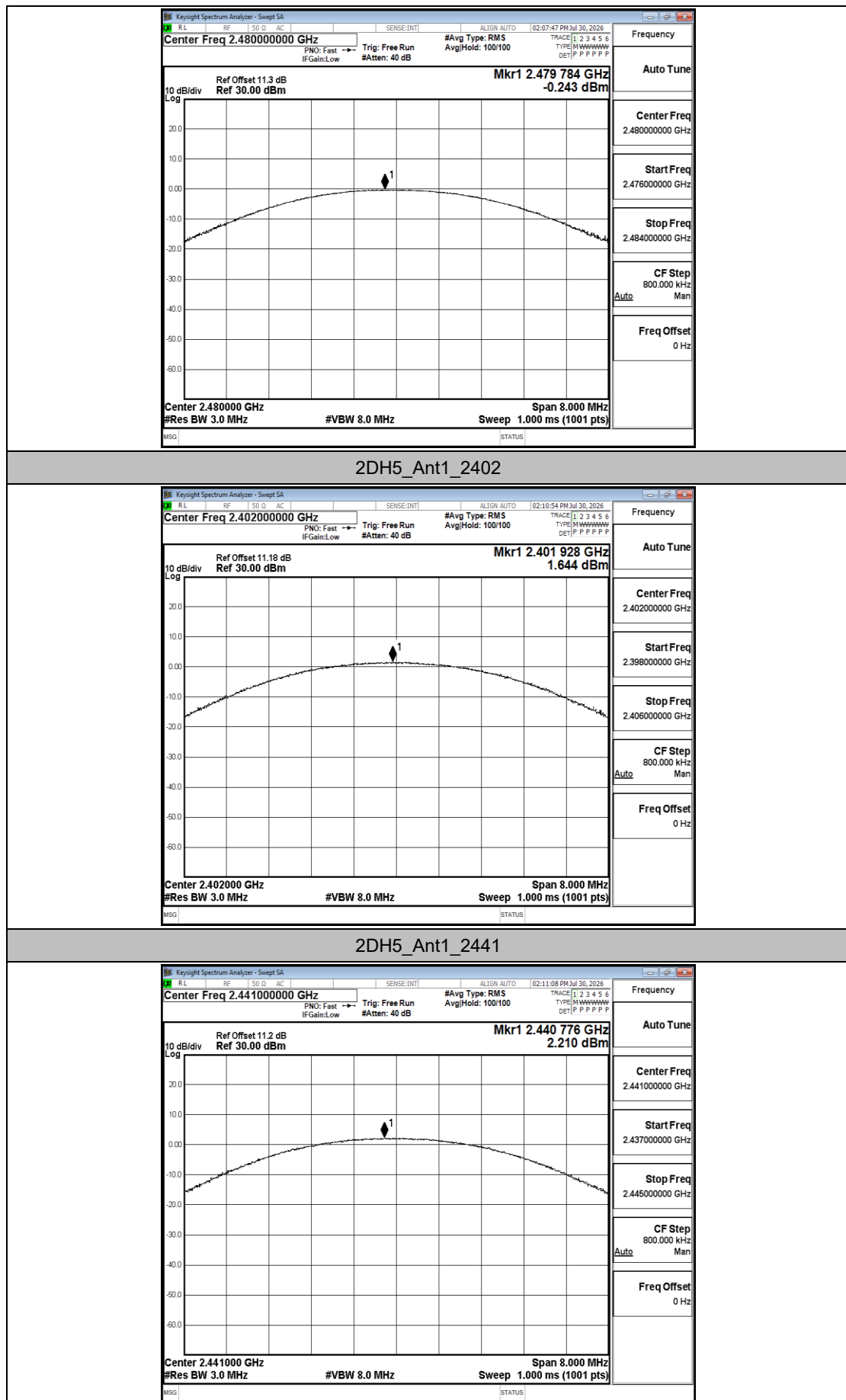
A.2 Maximum Peak conducted output power

Test Result Peak

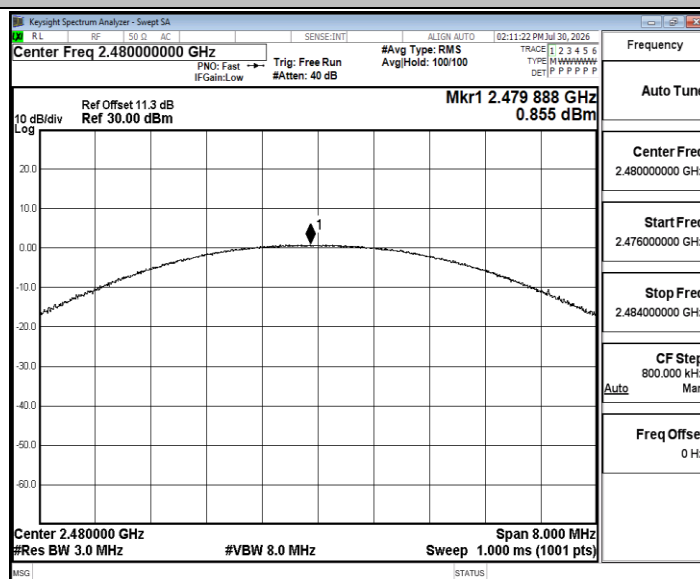
Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.30	≤30	PASS
		2441	0.92	≤30	PASS
		2480	-0.24	≤30	PASS
2DH5	Ant1	2402	1.64	≤20.97	PASS
		2441	2.21	≤20.97	PASS
		2480	0.86	≤20.97	PASS
3DH5	Ant1	2402	1.81	≤20.97	PASS
		2441	2.46	≤20.97	PASS
		2480	1.08	≤20.97	PASS

Test Graphs

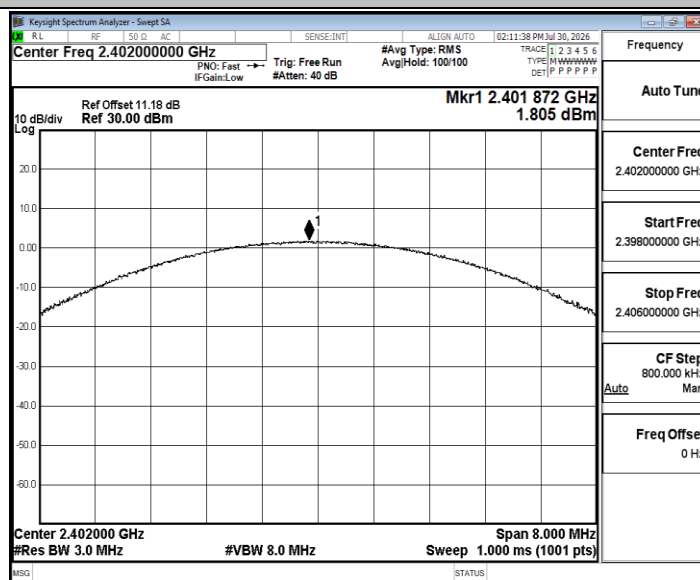




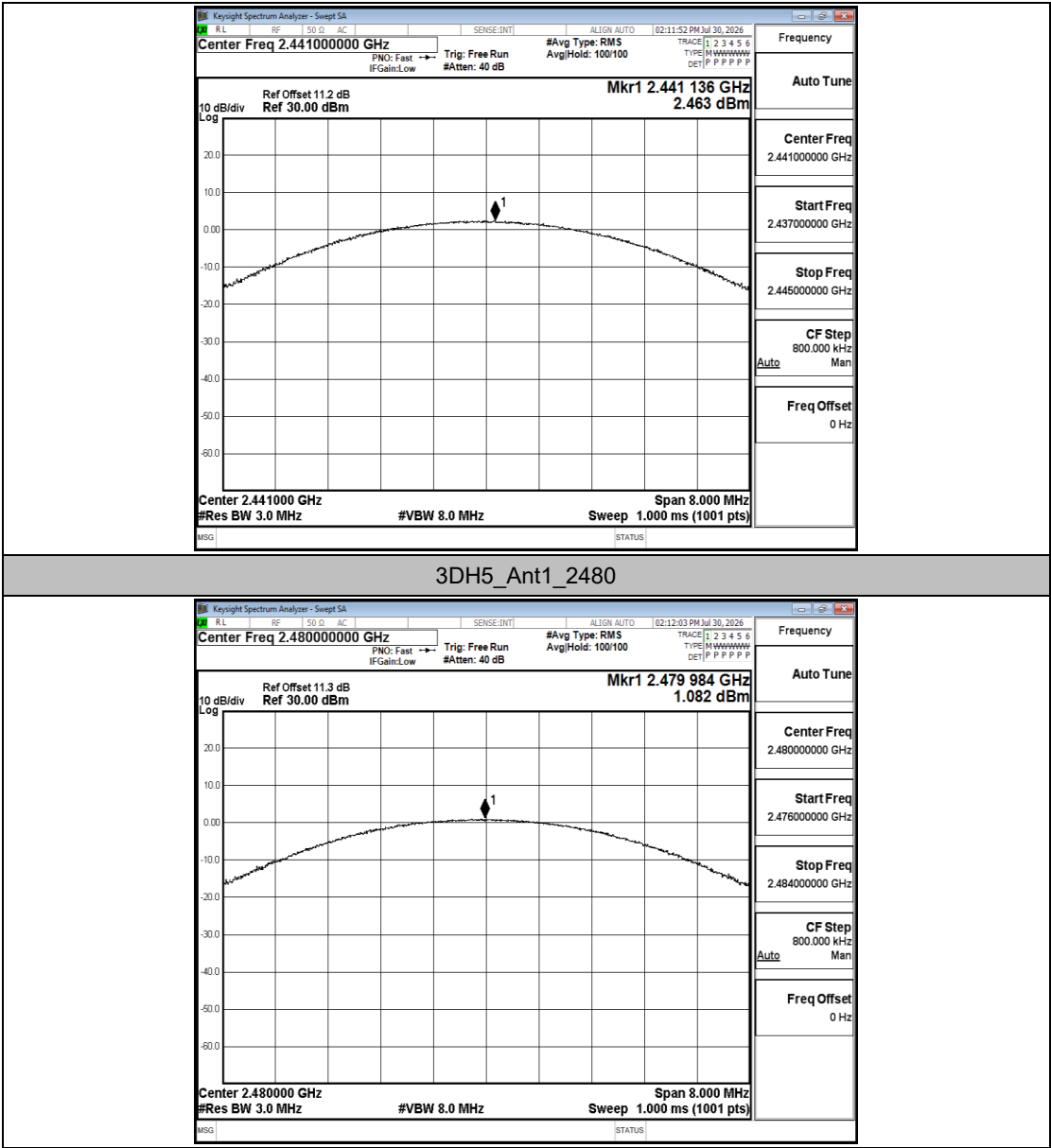
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

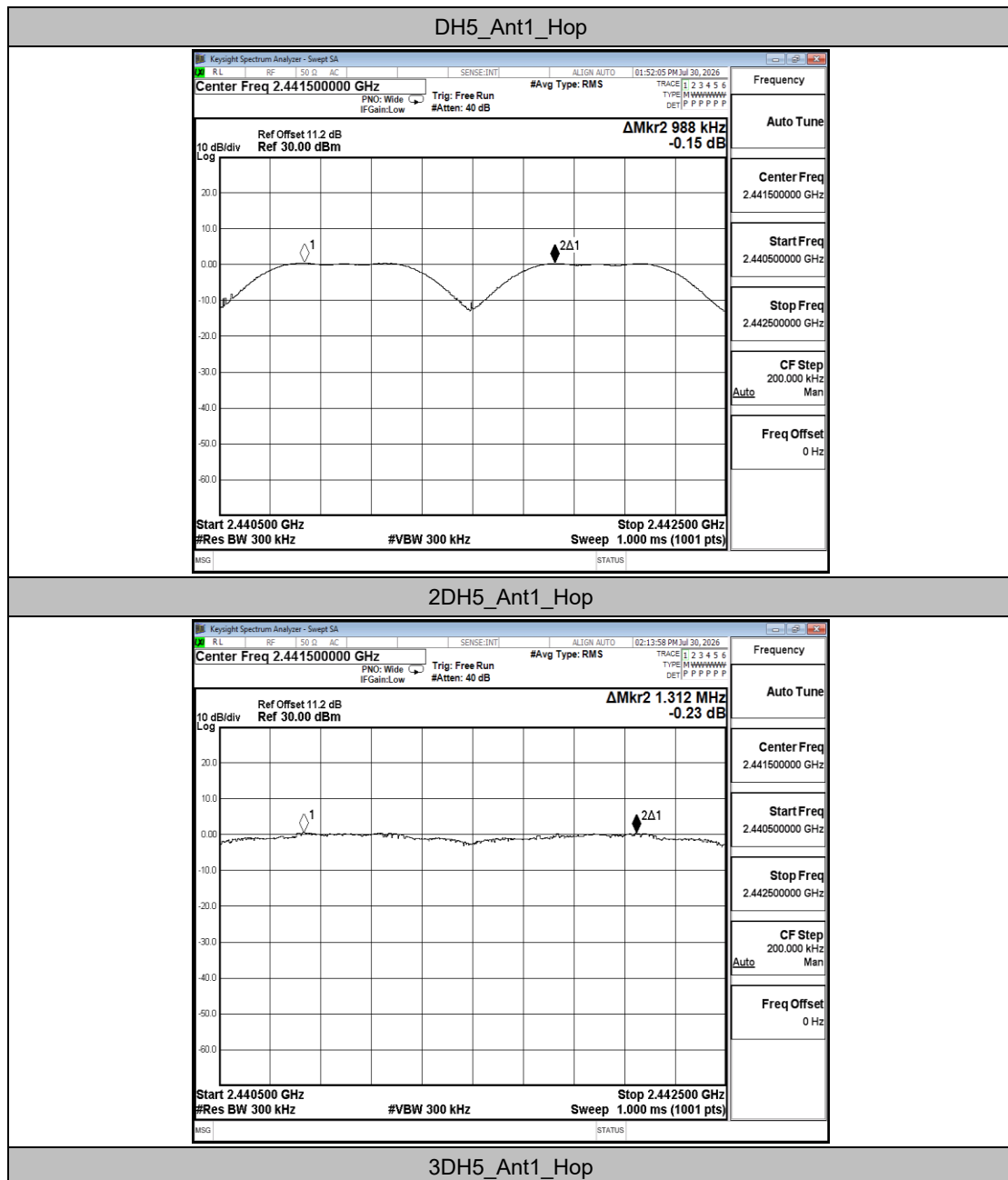


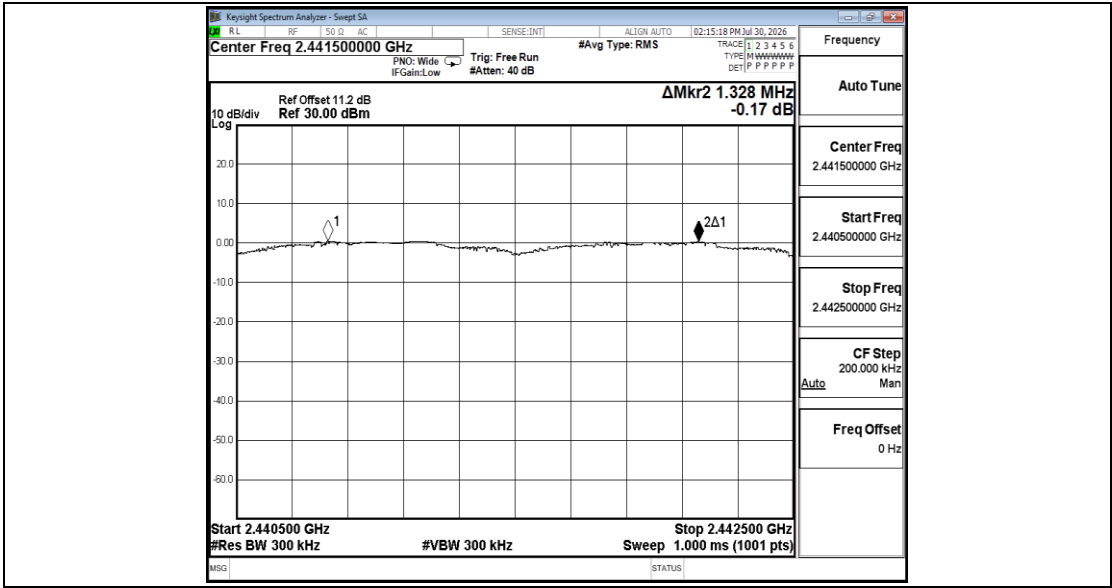
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.988	≥ 0.966	PASS
2DH5	Ant1	Hop	1.312	≥ 1.296	PASS
3DH5	Ant1	Hop	1.328	≥ 1.299	PASS

Test Graphs



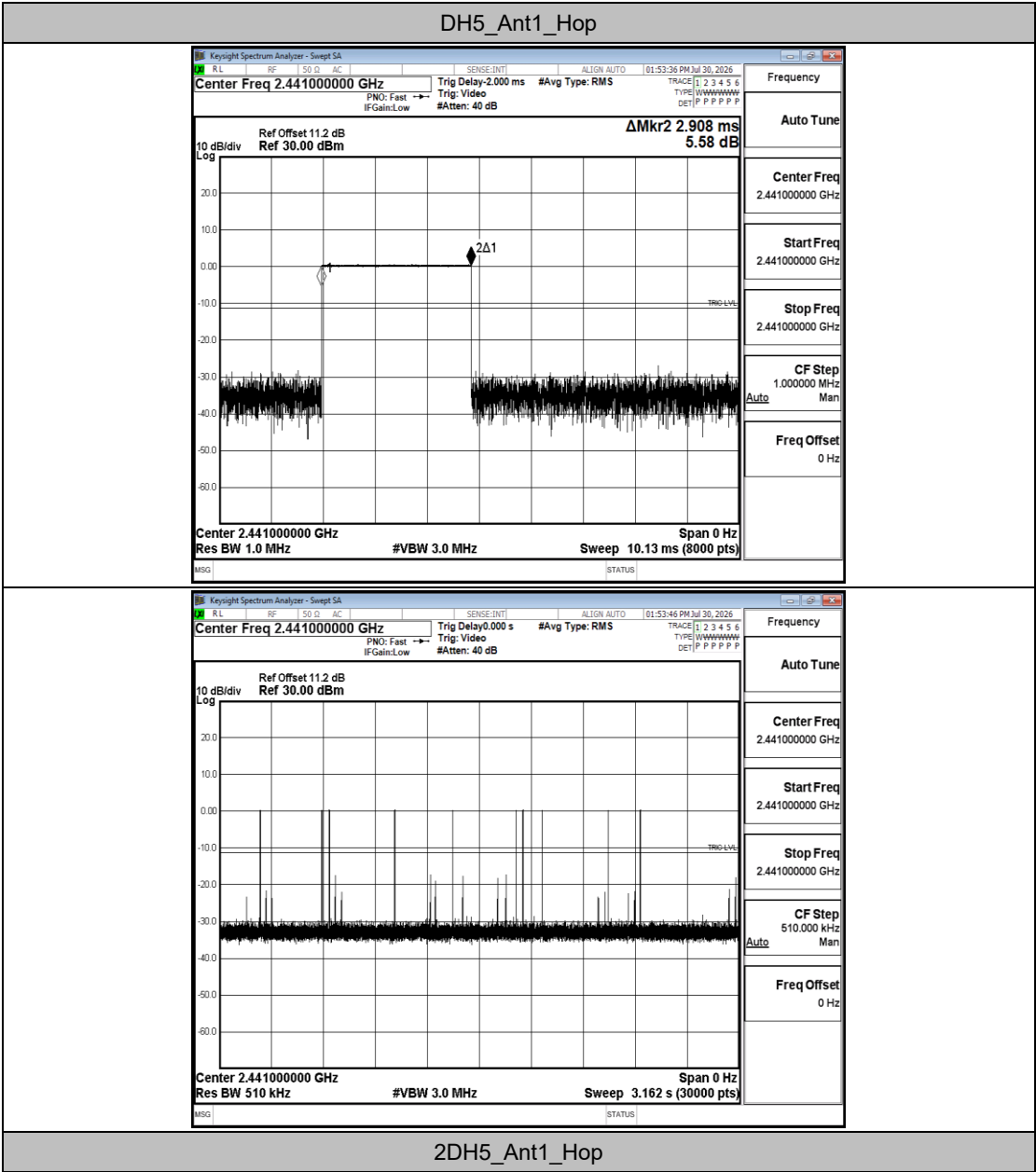


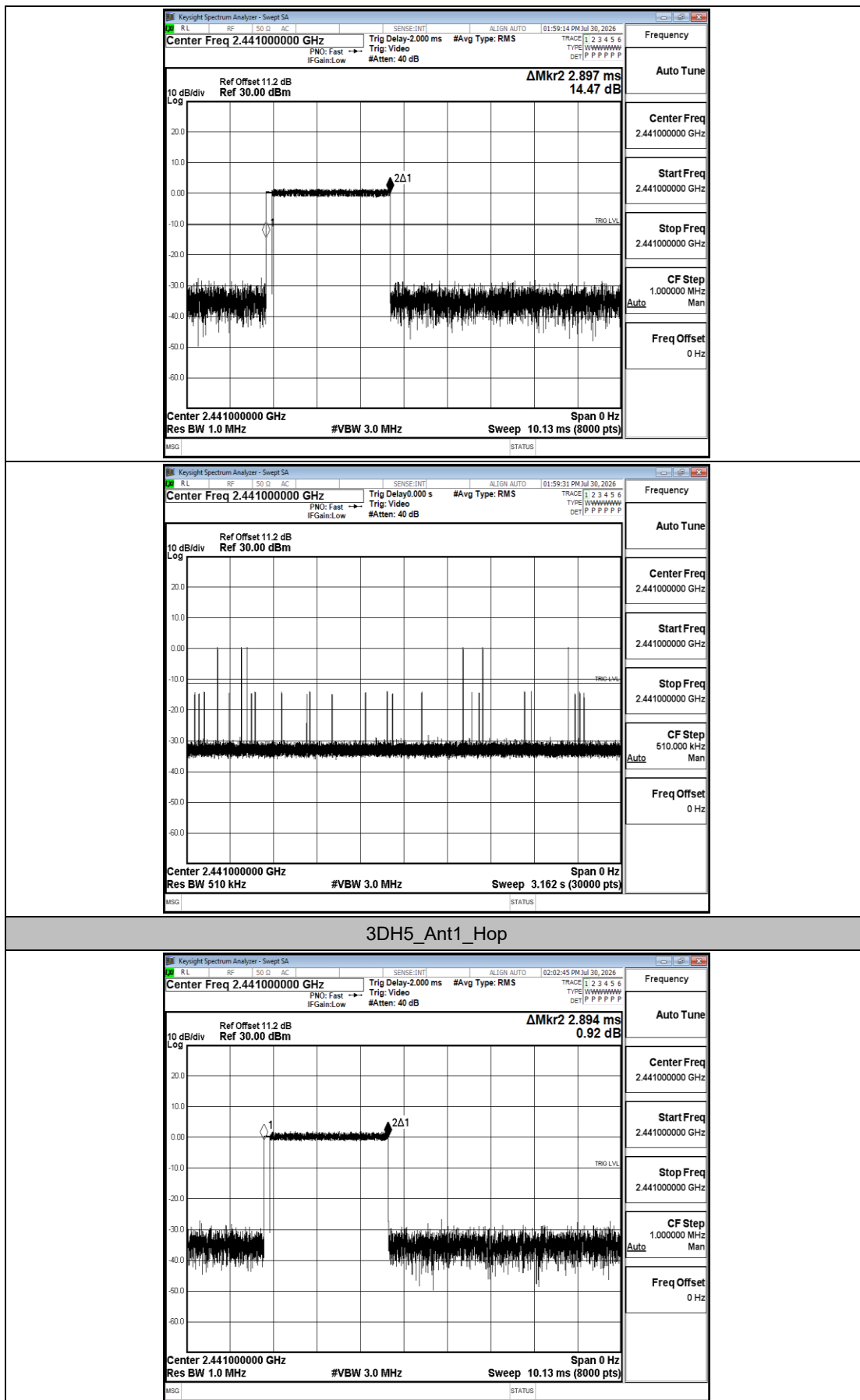
A.4 Time of occupancy

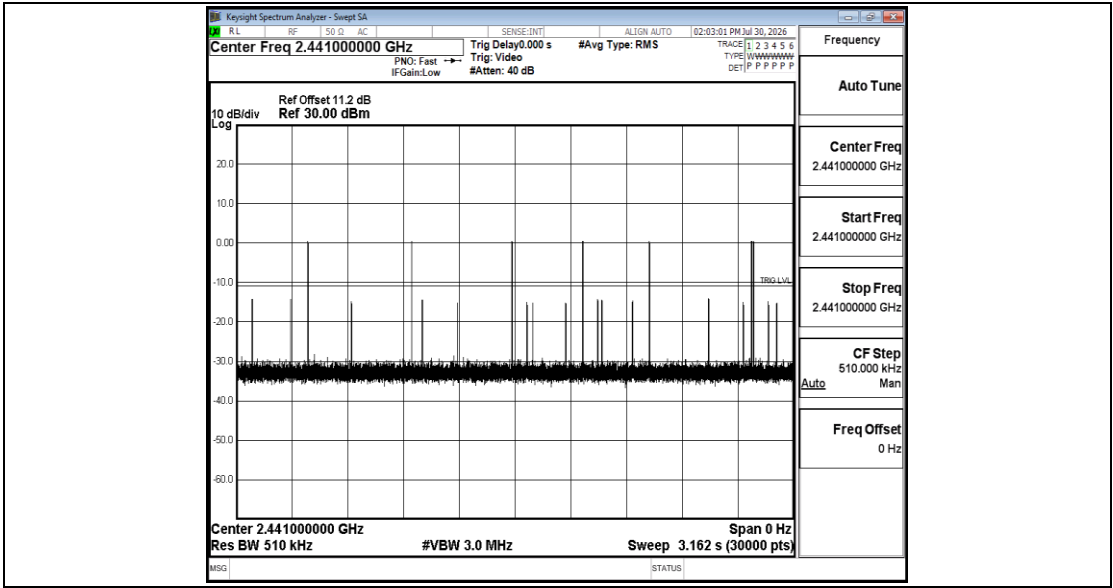
Test Result

TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	110	0.32	≤0.4	PASS
2DH5	Ant1	Hop	2.897	70	0.203	≤0.4	PASS
3DH5	Ant1	Hop	2.894	80	0.232	≤0.4	PASS

Test Graphs





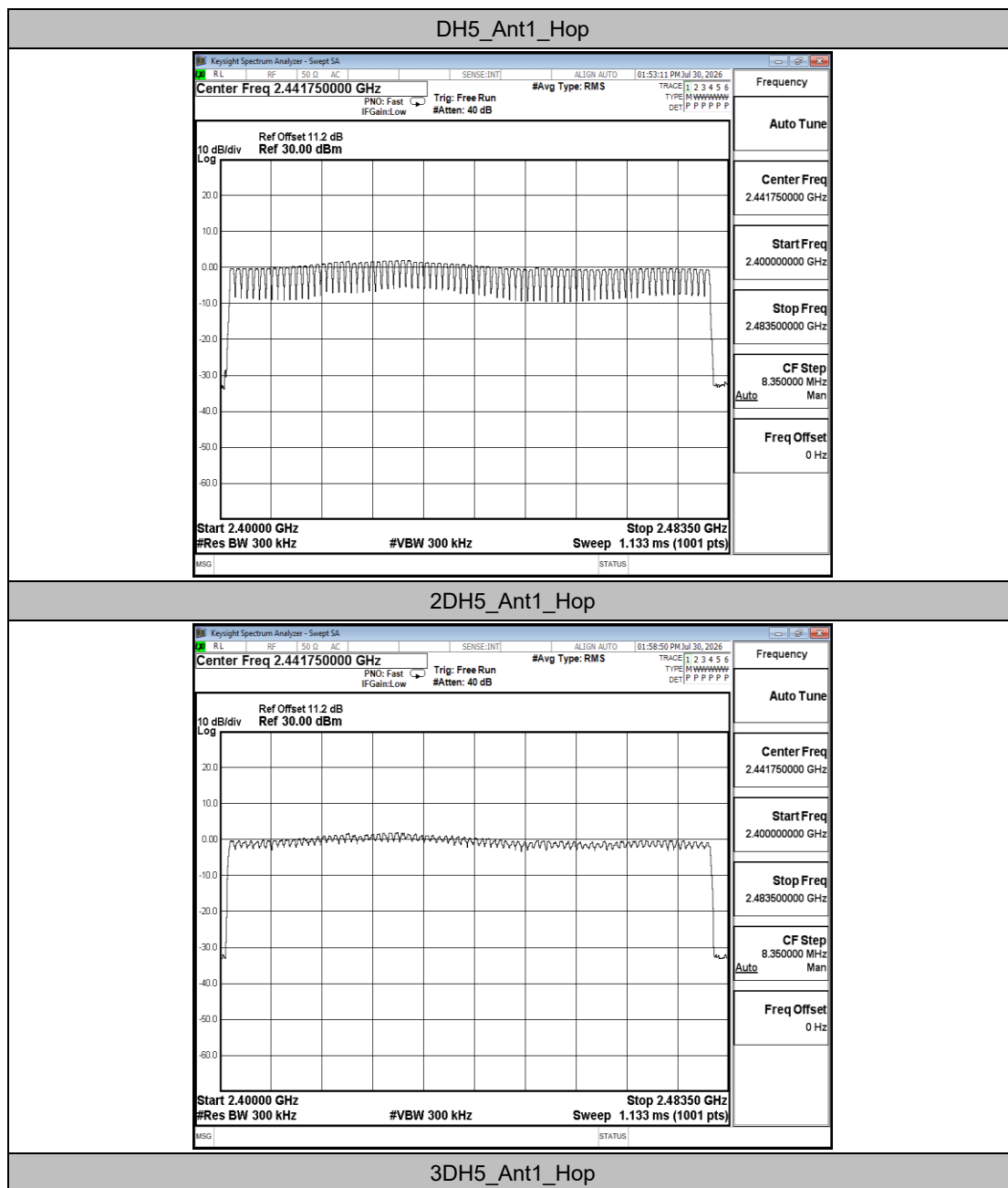


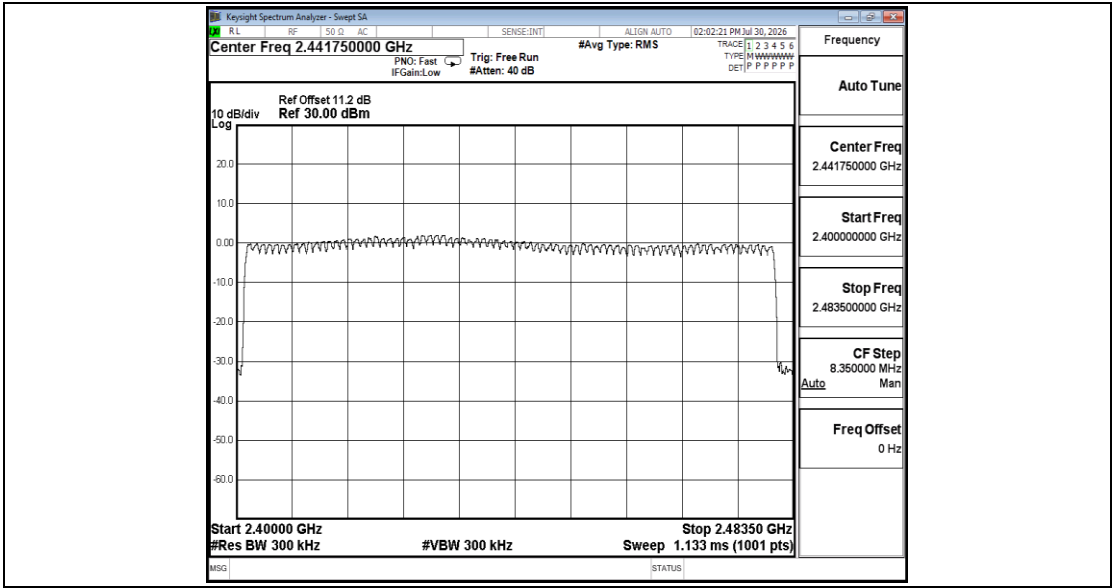
A.5 Number of hopping channels

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



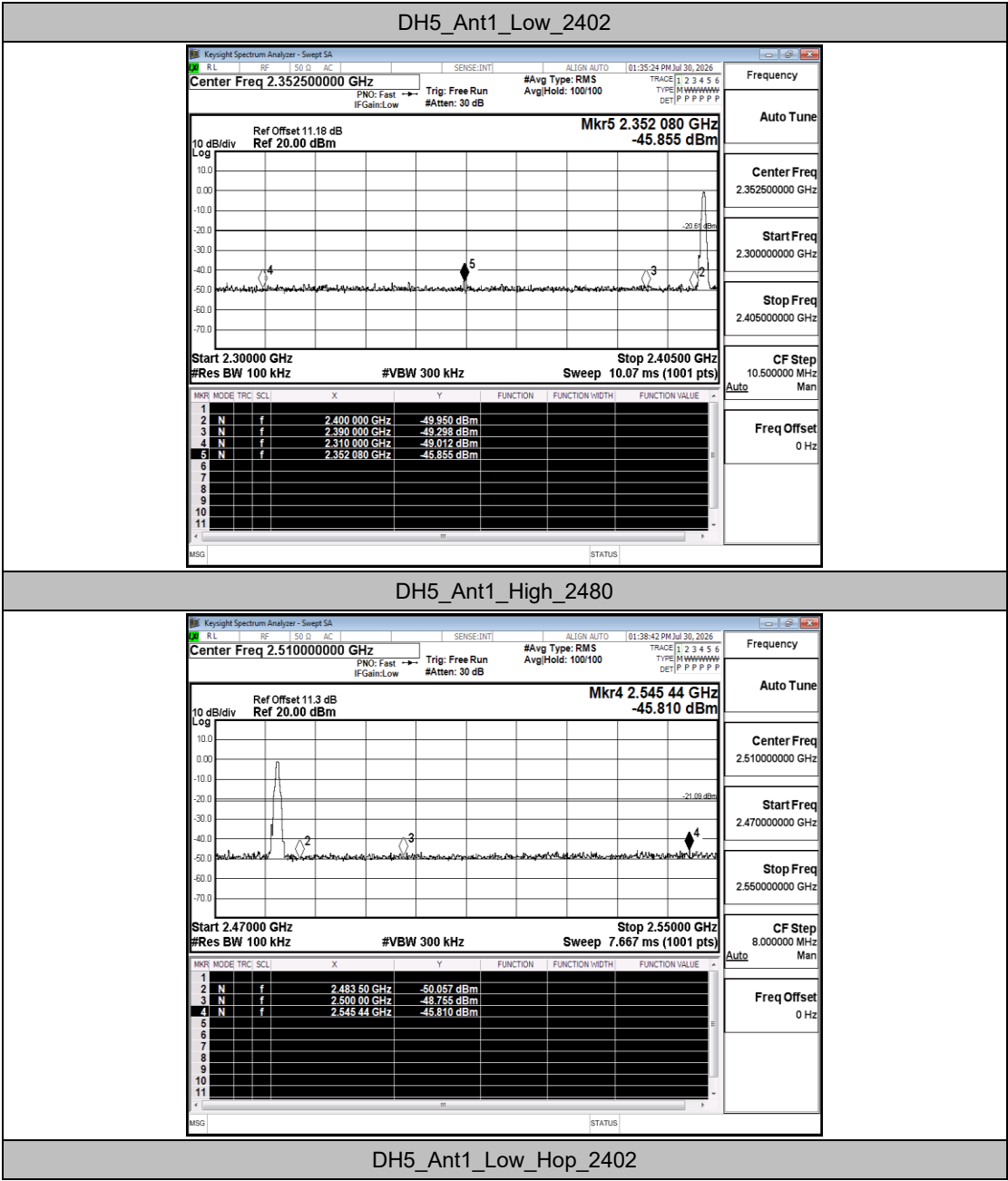


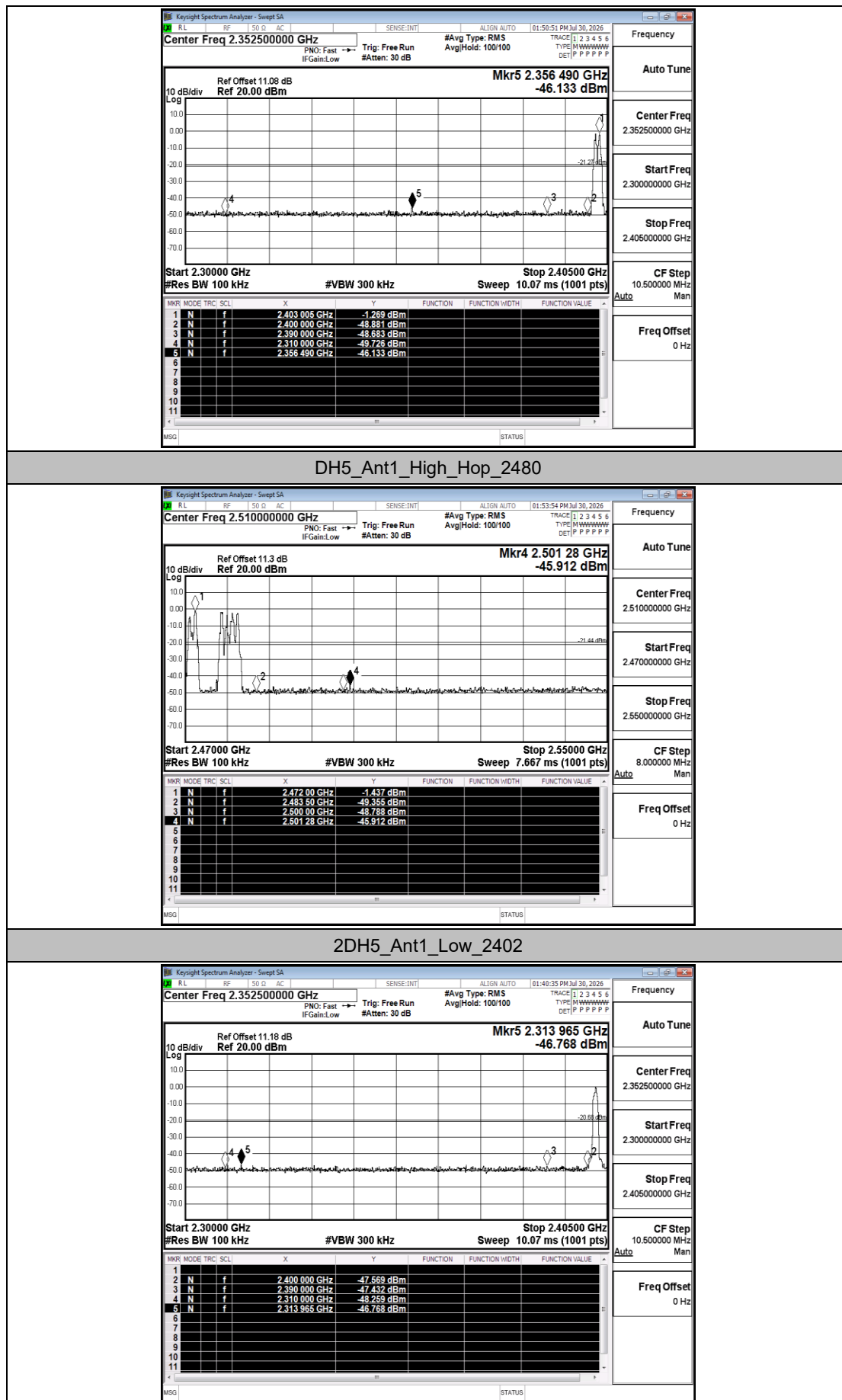
A.6 Band edge measurements

Test Result

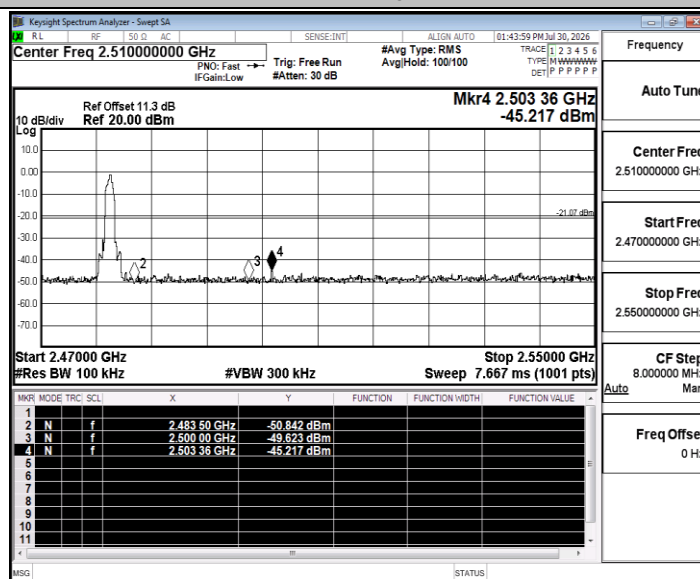
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.61	-45.86	≤ -20.61	PASS
		High	2480	-1.09	-45.81	≤ -21.09	PASS
		Low	Hop_2402	-1.27	-46.13	≤ -21.27	PASS
		High	Hop_2480	-1.44	-45.91	≤ -21.44	PASS
2DH5	Ant1	Low	2402	-0.68	-46.77	≤ -20.68	PASS
		High	2480	-1.07	-45.22	≤ -21.07	PASS
		Low	Hop_2402	-4.23	-46.55	≤ -24.23	PASS
		High	Hop_2480	-0.98	-45.7	≤ -20.98	PASS
3DH5	Ant1	Low	2402	-0.47	-46.06	≤ -20.47	PASS
		High	2480	-0.97	-46.24	≤ -20.97	PASS
		Low	Hop_2402	-4.71	-46.31	≤ -24.71	PASS
		High	Hop_2480	-4.21	-45.93	≤ -24.21	PASS

Test Graphs

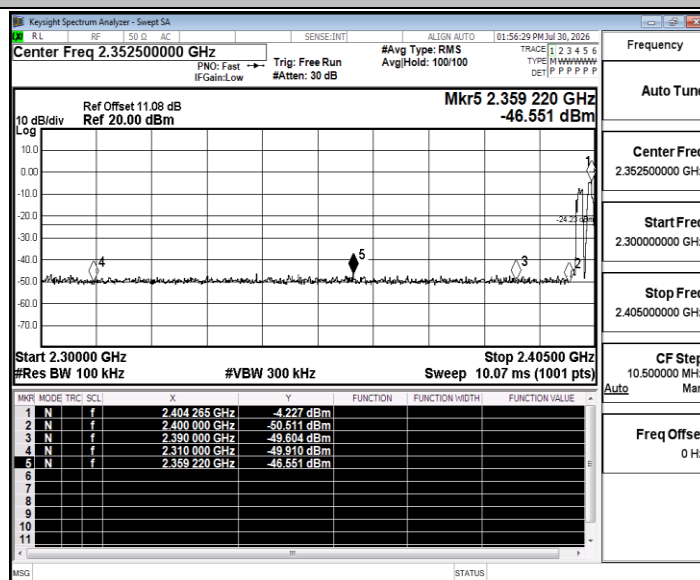




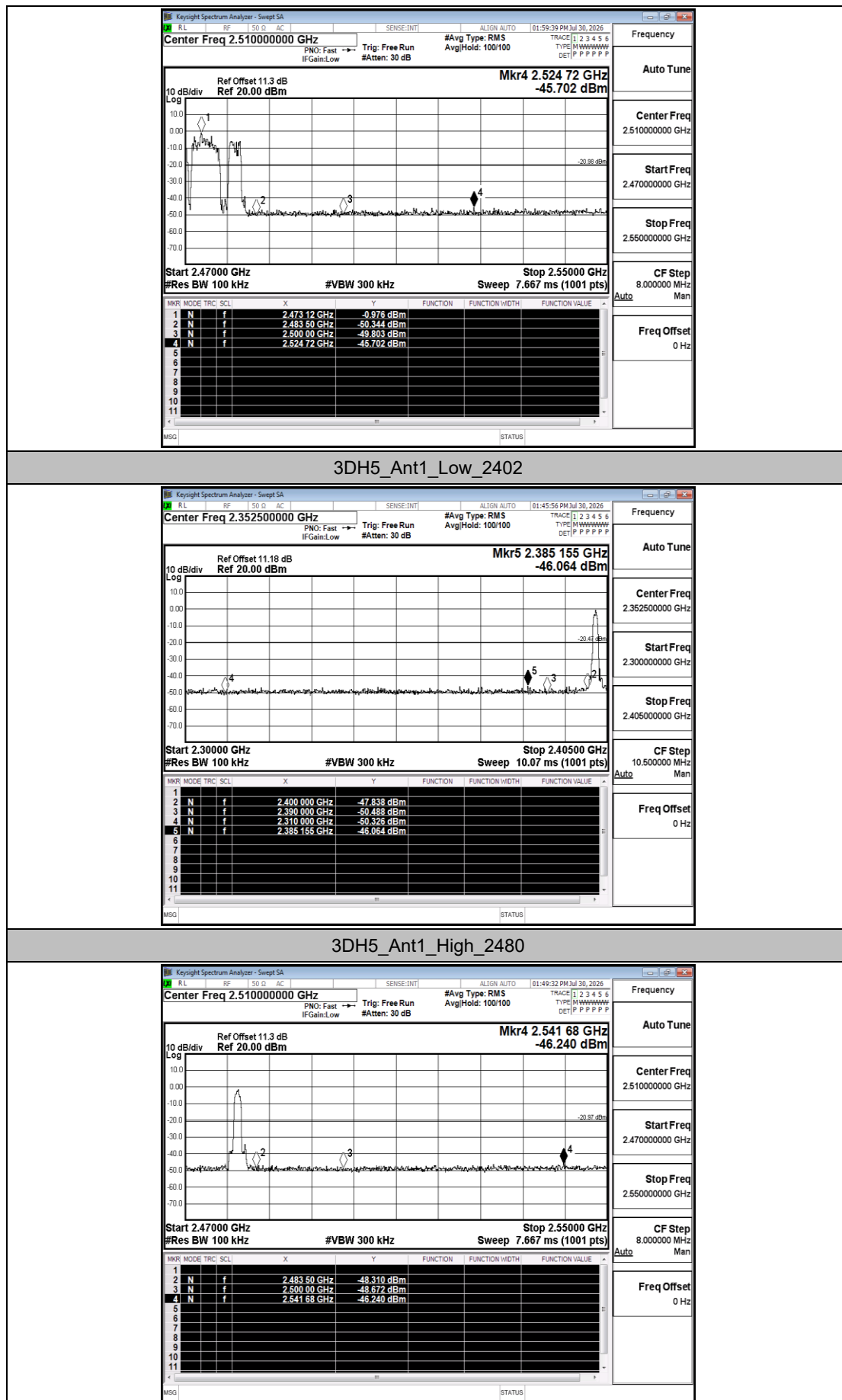
2DH5_Ant1_High_2480

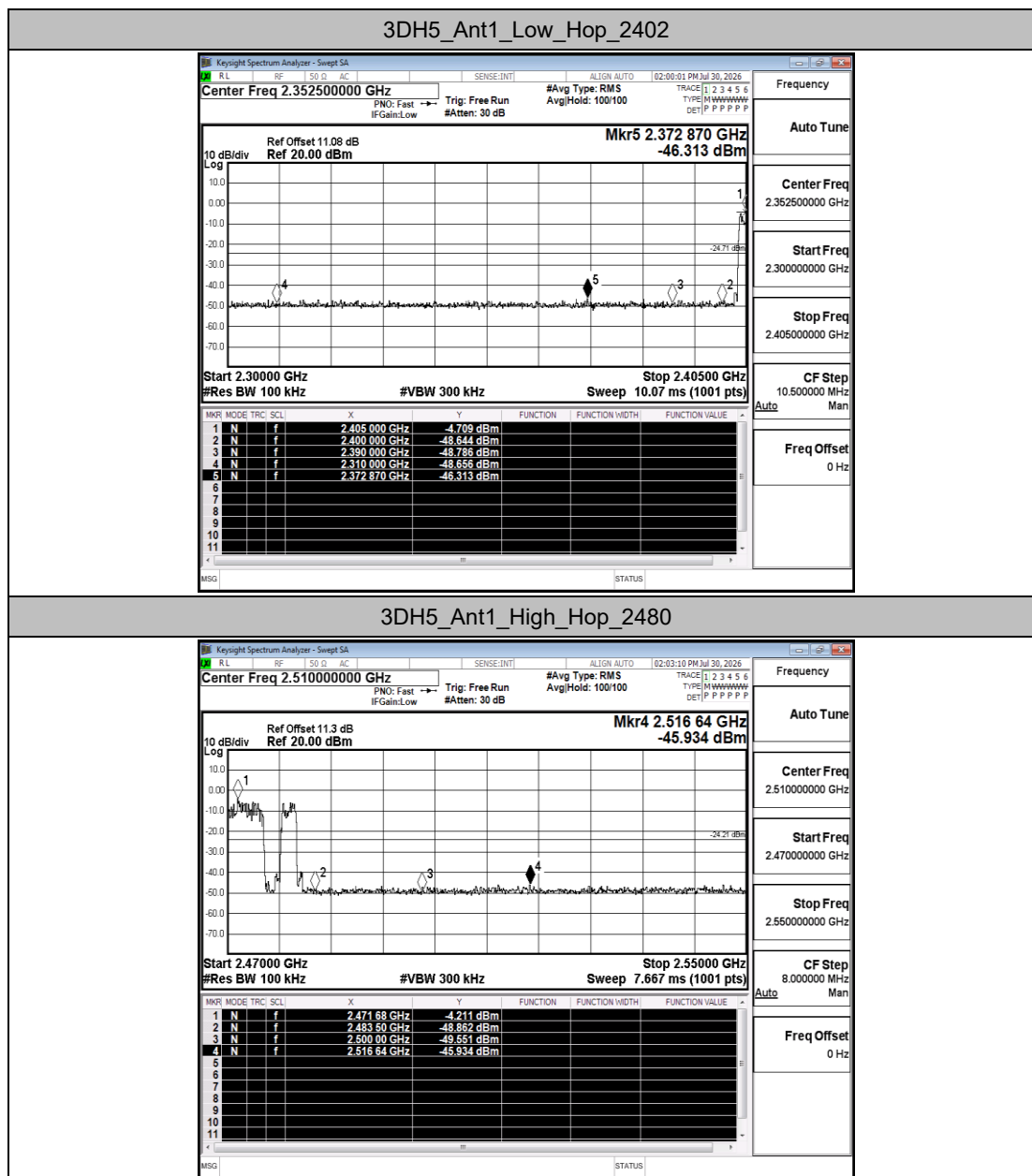


2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.52	-0.52	---	PASS
			30~1000	-0.52	-56.95	≤-20.52	PASS
			1000~26500	-0.52	-44.57	≤-20.52	PASS
		2441	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-58.49	≤-19.68	PASS
			1000~26500	0.32	-45.03	≤-19.68	PASS
		2480	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-57.91	≤-20.89	PASS
			1000~26500	-0.89	-45.28	≤-20.89	PASS
2DH5	Ant1	2402	Reference	-0.57	-0.57	---	PASS
			30~1000	-0.57	-58.25	≤-20.57	PASS
			1000~26500	-0.57	-43.99	≤-20.57	PASS
		2441	Reference	0.24	0.24	---	PASS
			30~1000	0.24	-59.43	≤-19.76	PASS
			1000~26500	0.24	-44.14	≤-19.76	PASS
		2480	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-58.73	≤-20.95	PASS
			1000~26500	-0.95	-44.13	≤-20.95	PASS
3DH5	Ant1	2402	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-58.38	≤-20.45	PASS
			1000~26500	-0.45	-44.65	≤-20.45	PASS
		2441	Reference	0.43	0.43	---	PASS
			30~1000	0.43	-59.94	≤-19.57	PASS
			1000~26500	0.43	-44.73	≤-19.57	PASS
		2480	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-57.46	≤-20.83	PASS
			1000~26500	-0.83	-43.93	≤-20.83	PASS

Test Graphs

