

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth headset

Test Model: aiBuds

Environmental Conditions

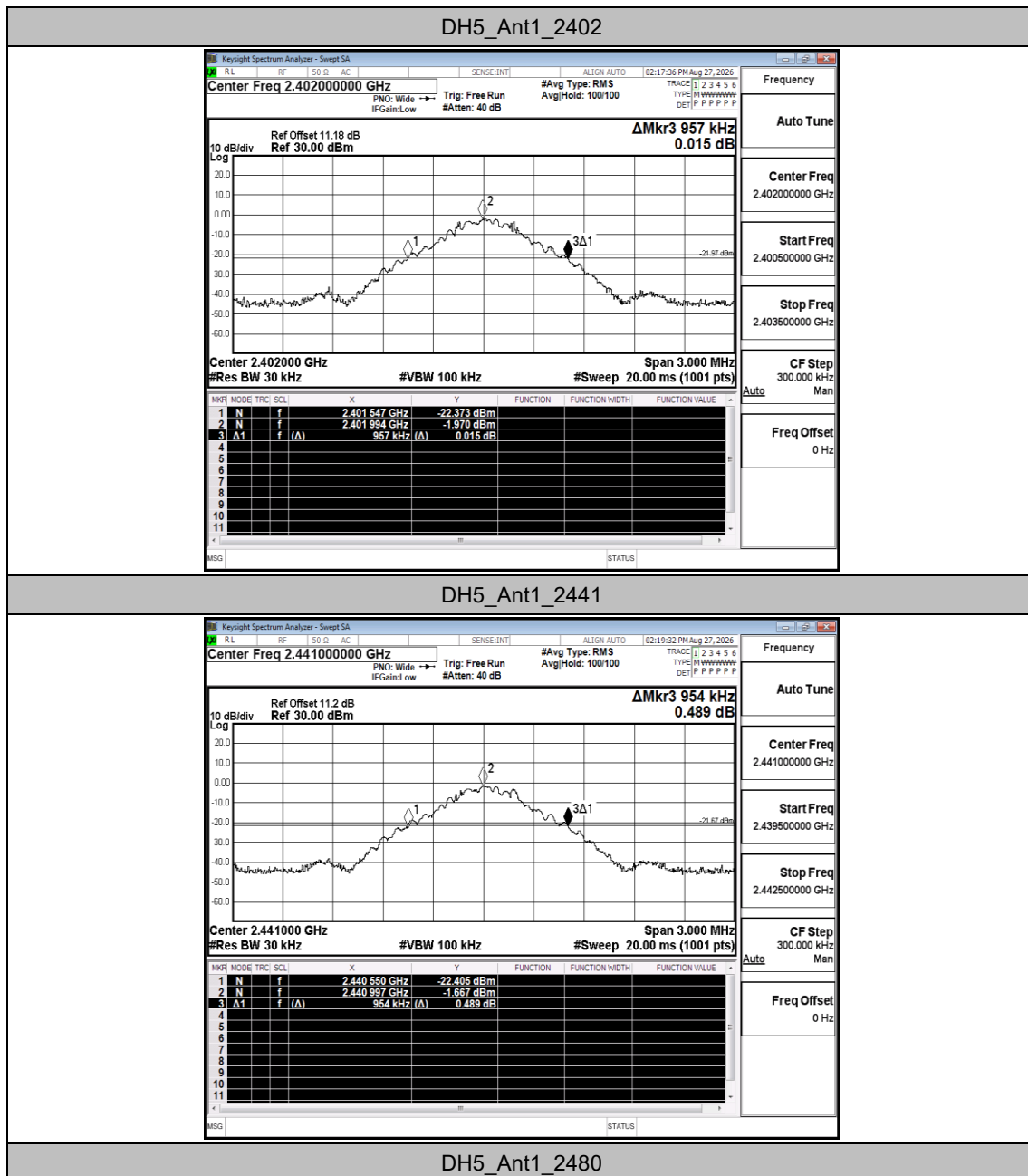
Temperature:	24.5°C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

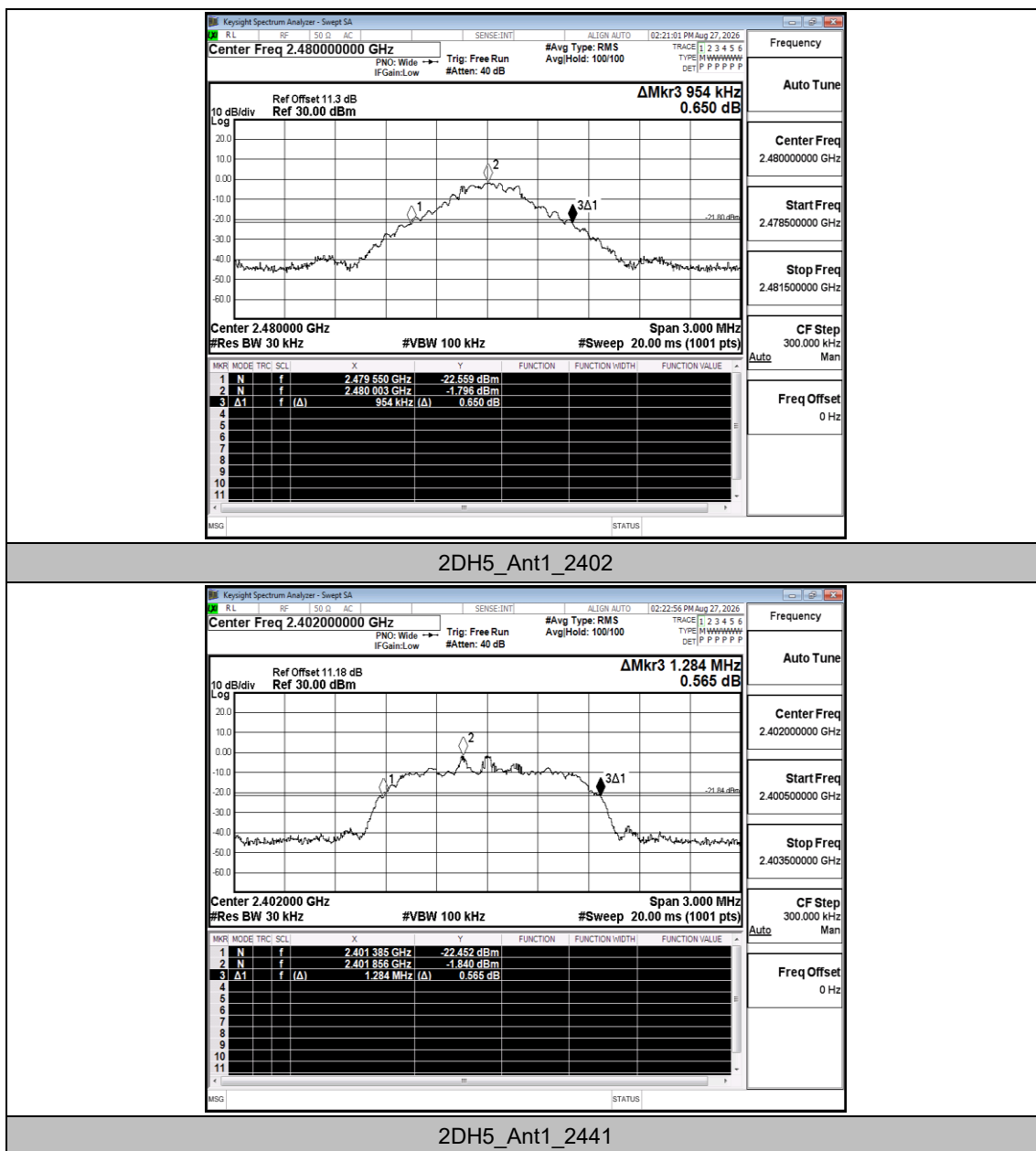
A.1 20dB Emission Bandwidth

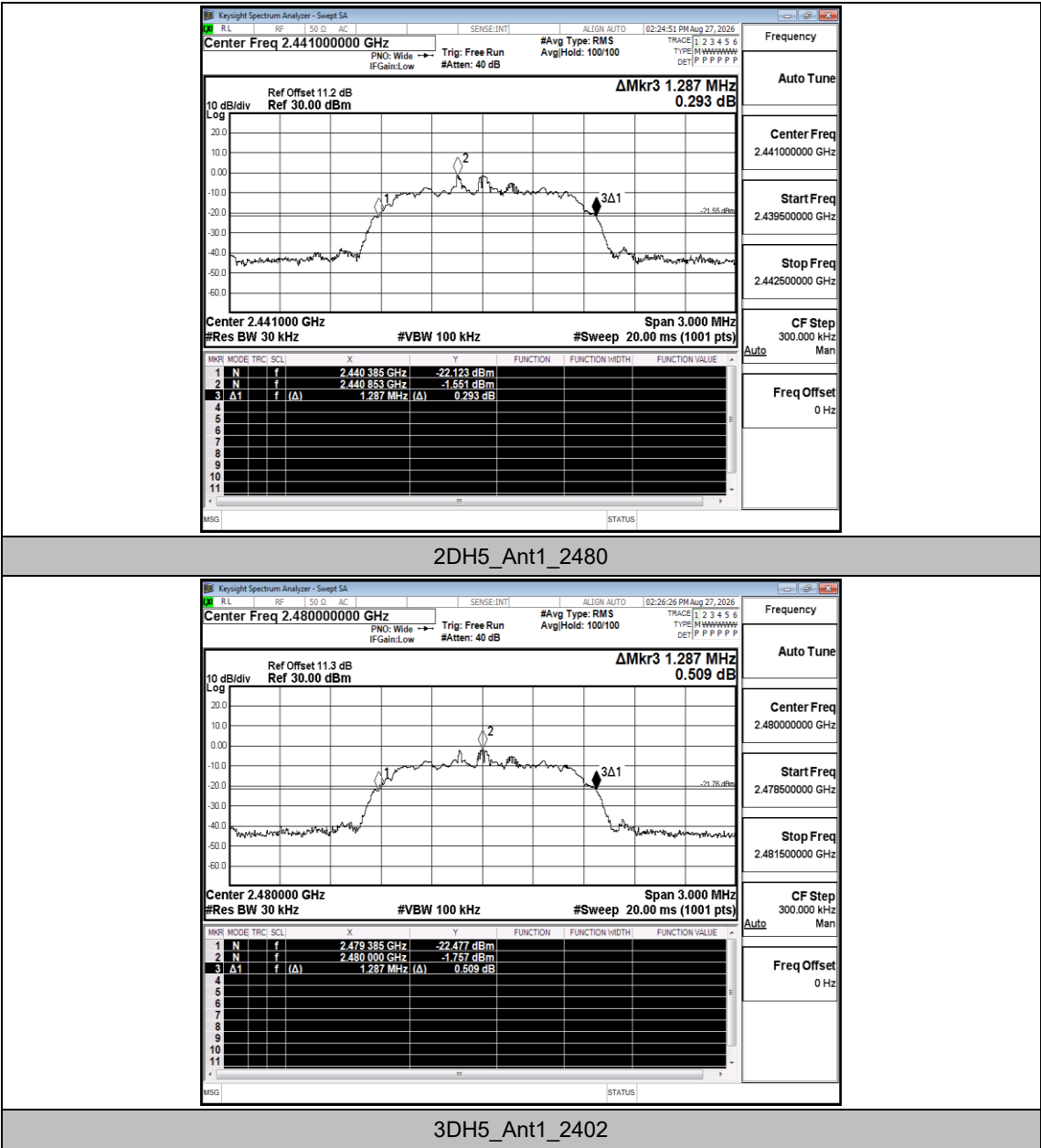
Test Result

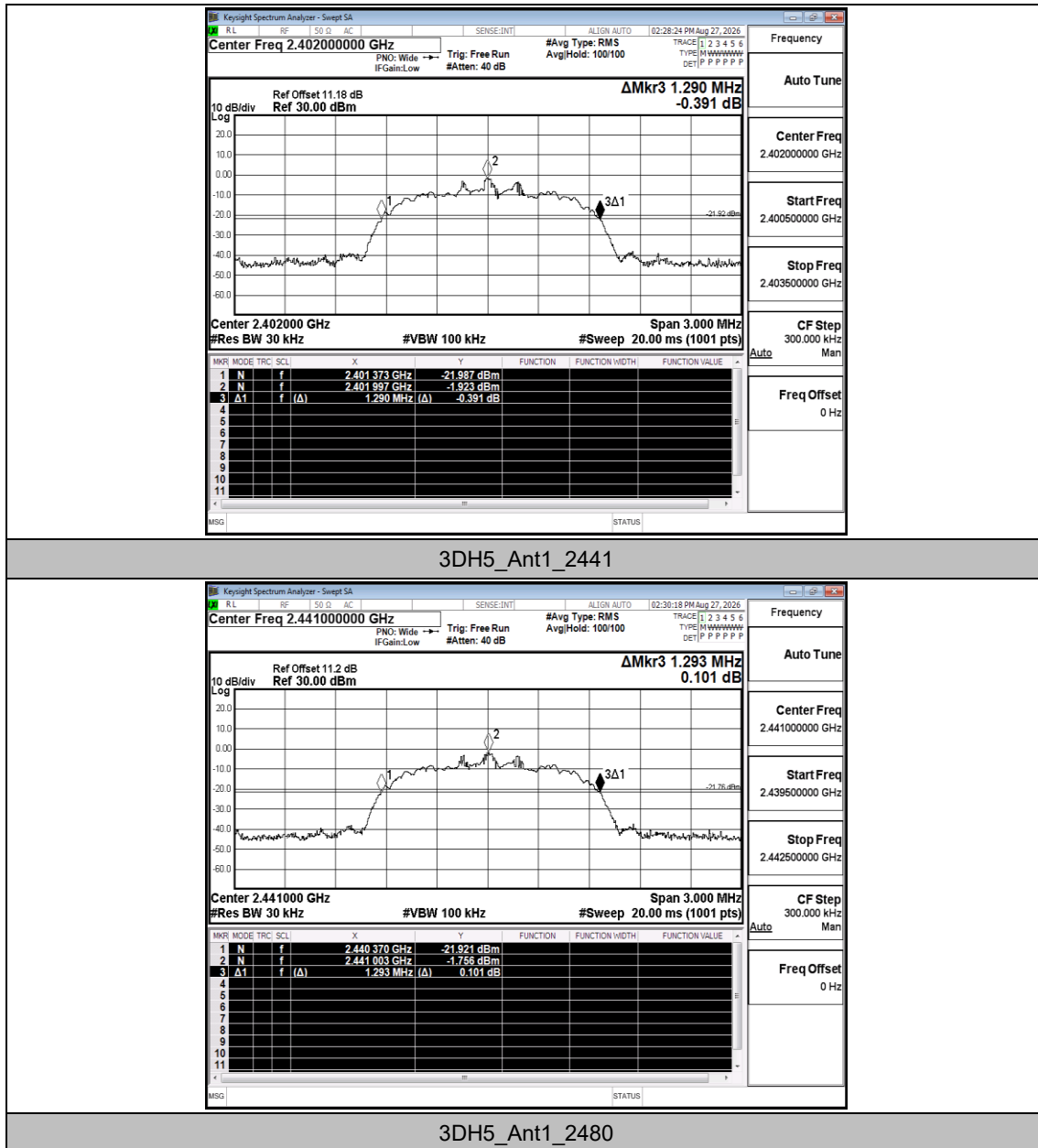
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.957	2401.547	2402.504	---	---
		2441	0.954	2440.550	2441.504	---	---
		2480	0.954	2479.550	2480.504	---	---
2DH5	Ant1	2402	1.284	2401.385	2402.669	---	---
		2441	1.287	2440.385	2441.672	---	---
		2480	1.287	2479.385	2480.672	---	---
3DH5	Ant1	2402	1.290	2401.373	2402.663	---	---
		2441	1.293	2440.370	2441.663	---	---
		2480	1.296	2479.370	2480.666	---	---

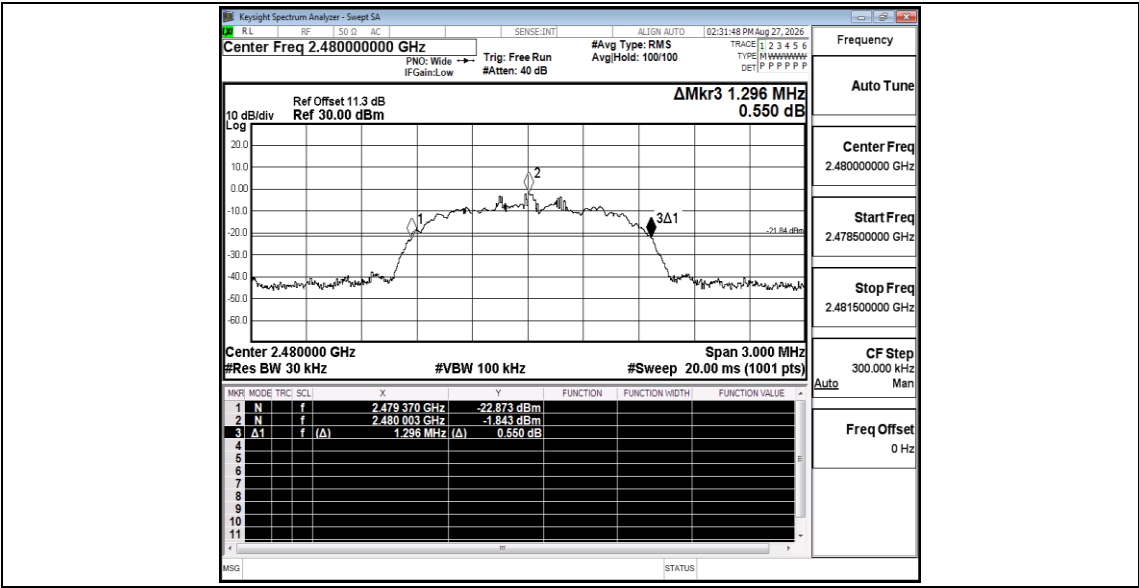
Test Graphs









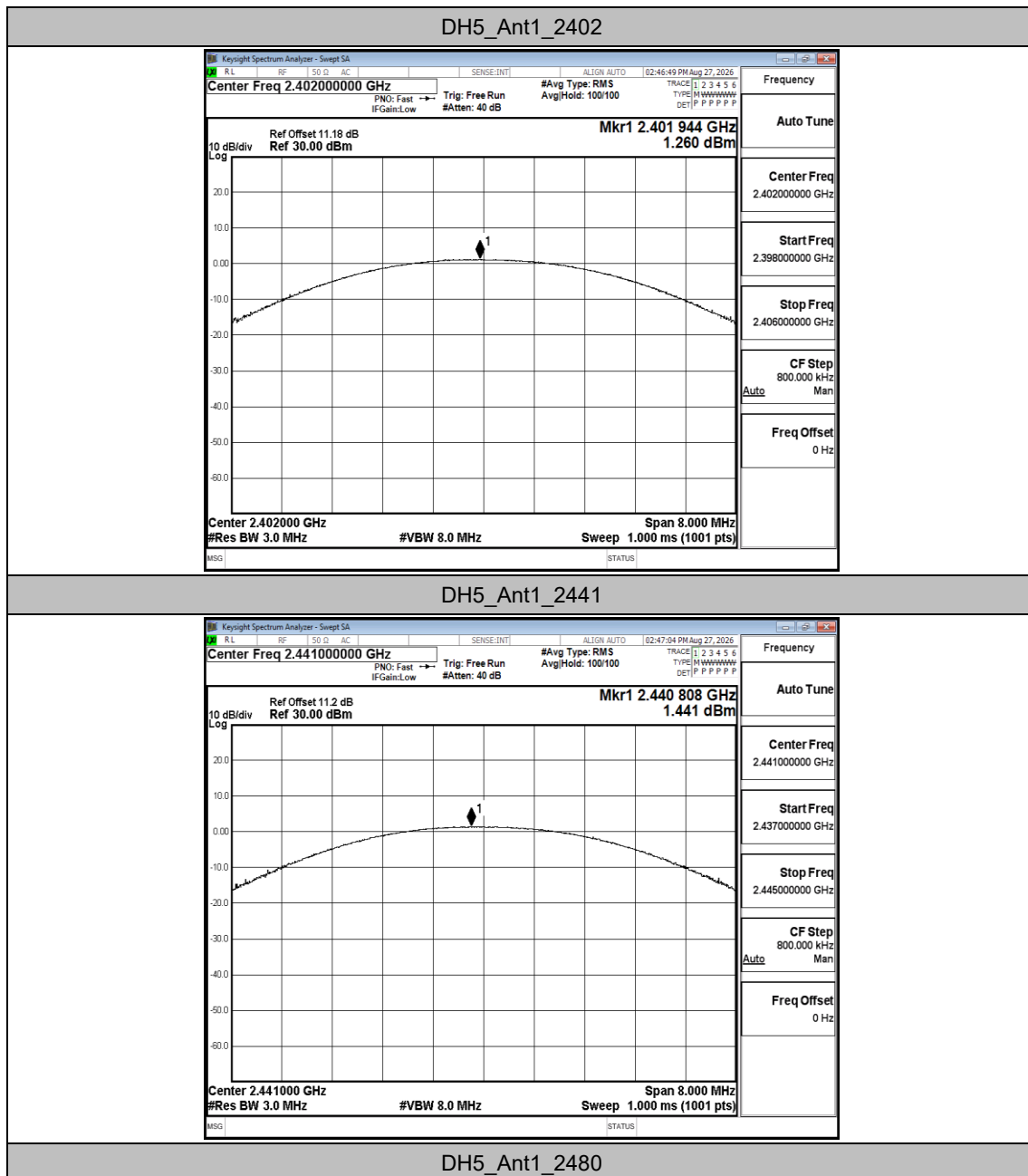


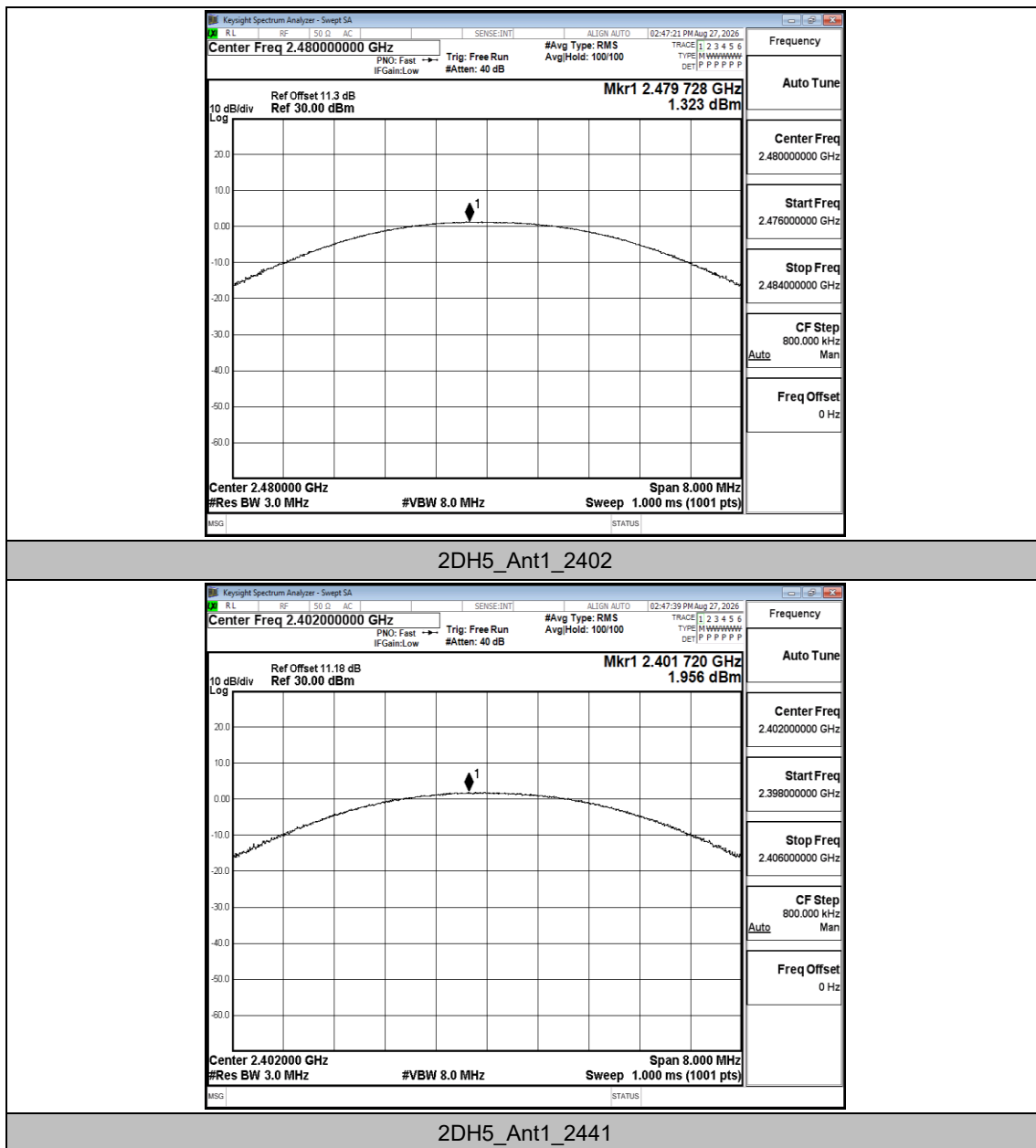
A.2 Maximum Peak conducted output power

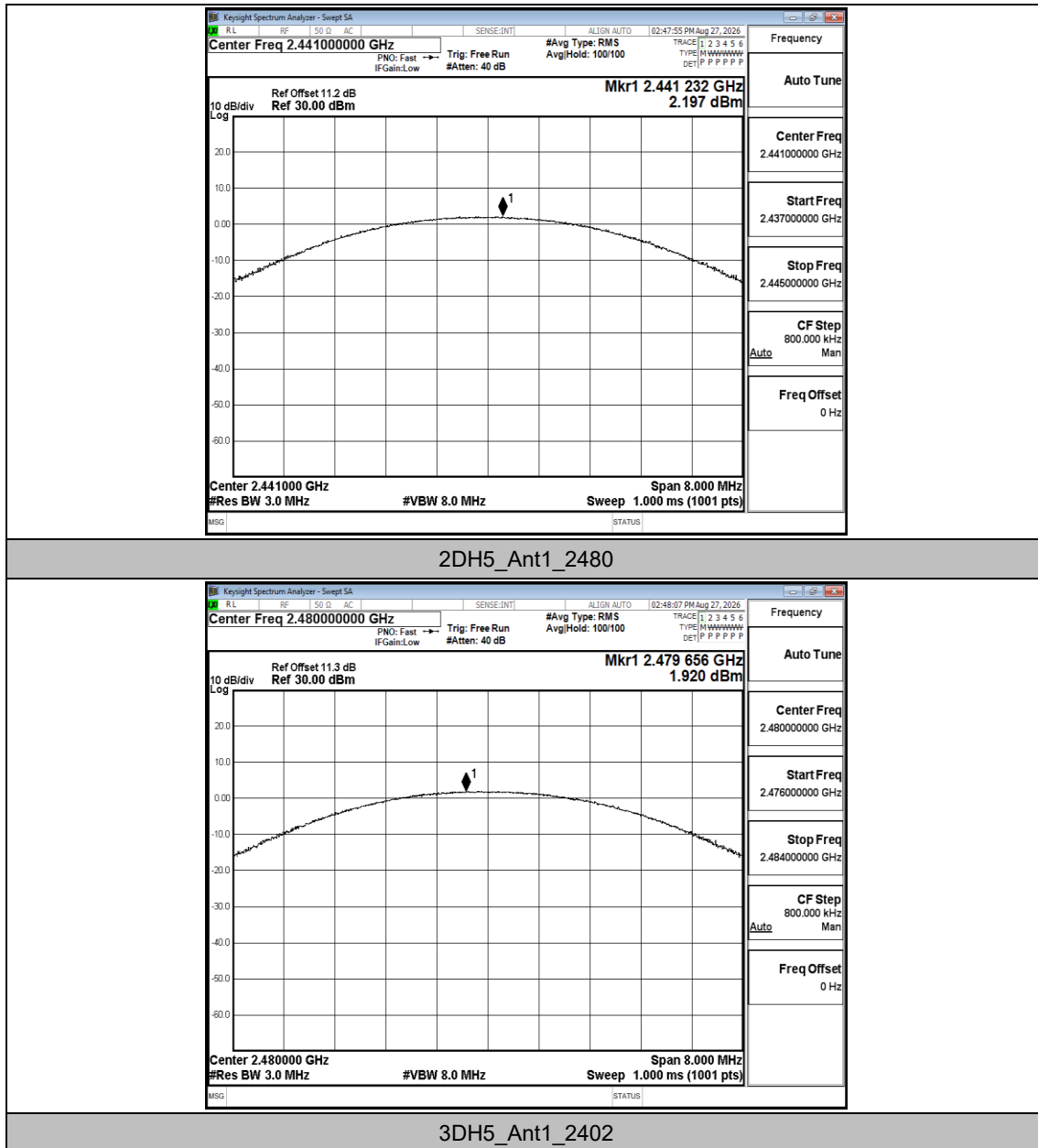
Test Result Peak

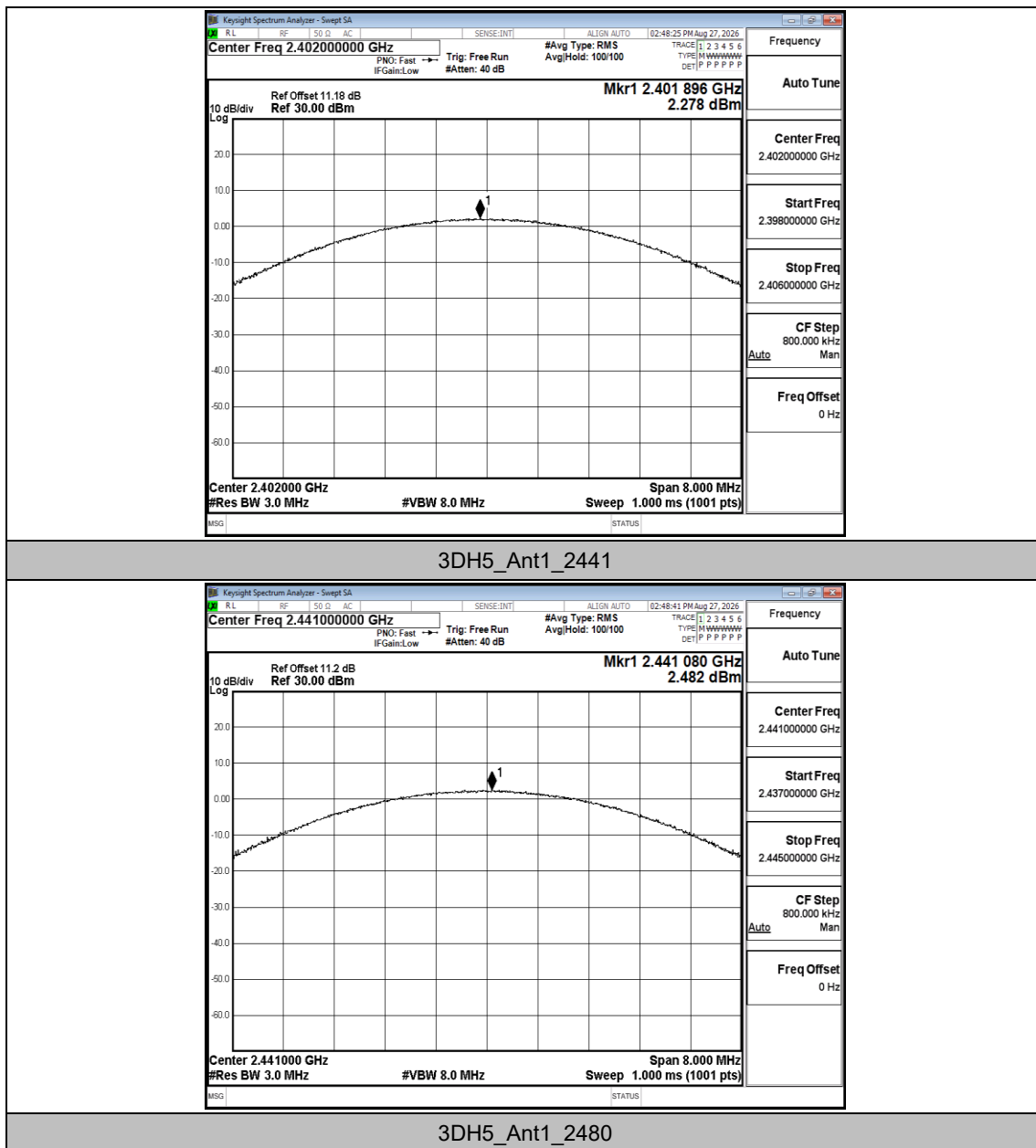
TestMode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]
DH5	Ant1	2402	1.26	≤30
		2441	1.44	≤30
		2480	1.32	≤30
2DH5	Ant1	2402	1.96	≤30
		2441	2.20	≤30
		2480	1.92	≤30
3DH5	Ant1	2402	2.28	≤30
		2441	2.48	≤30
		2480	2.35	≤30

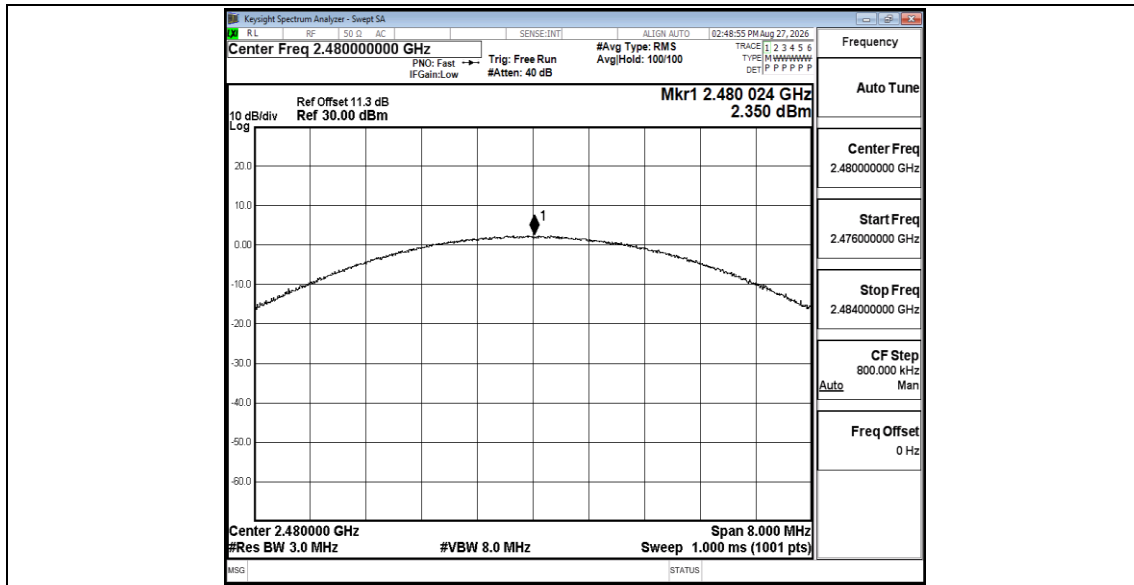
Test Graphs









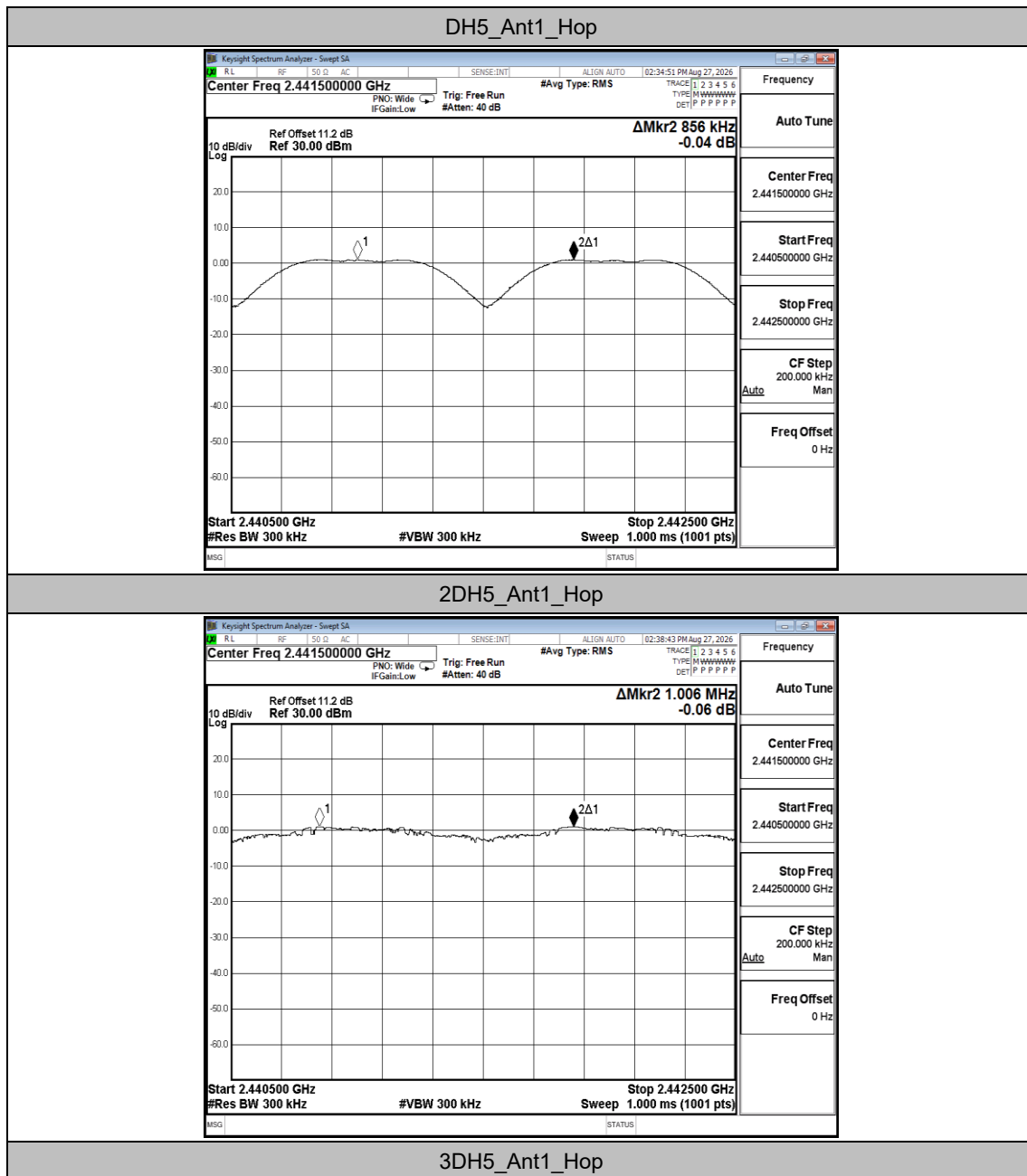


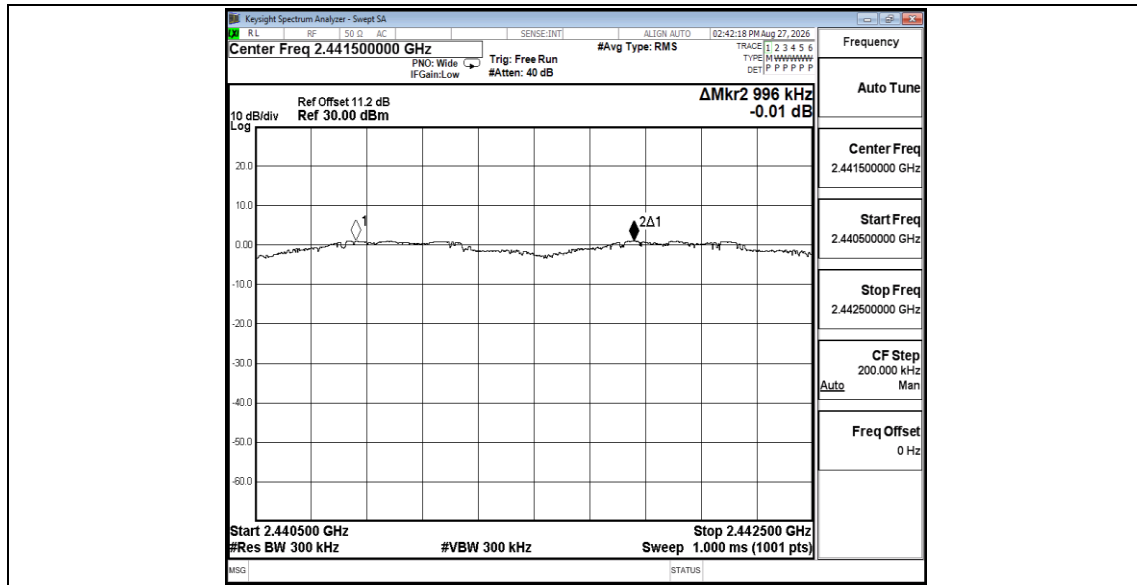
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.856	≥ 0.638	PASS
2DH5	Ant1	Hop	1.006	≥ 0.858	PASS
3DH5	Ant1	Hop	0.996	≥ 0.864	PASS

Test Graphs



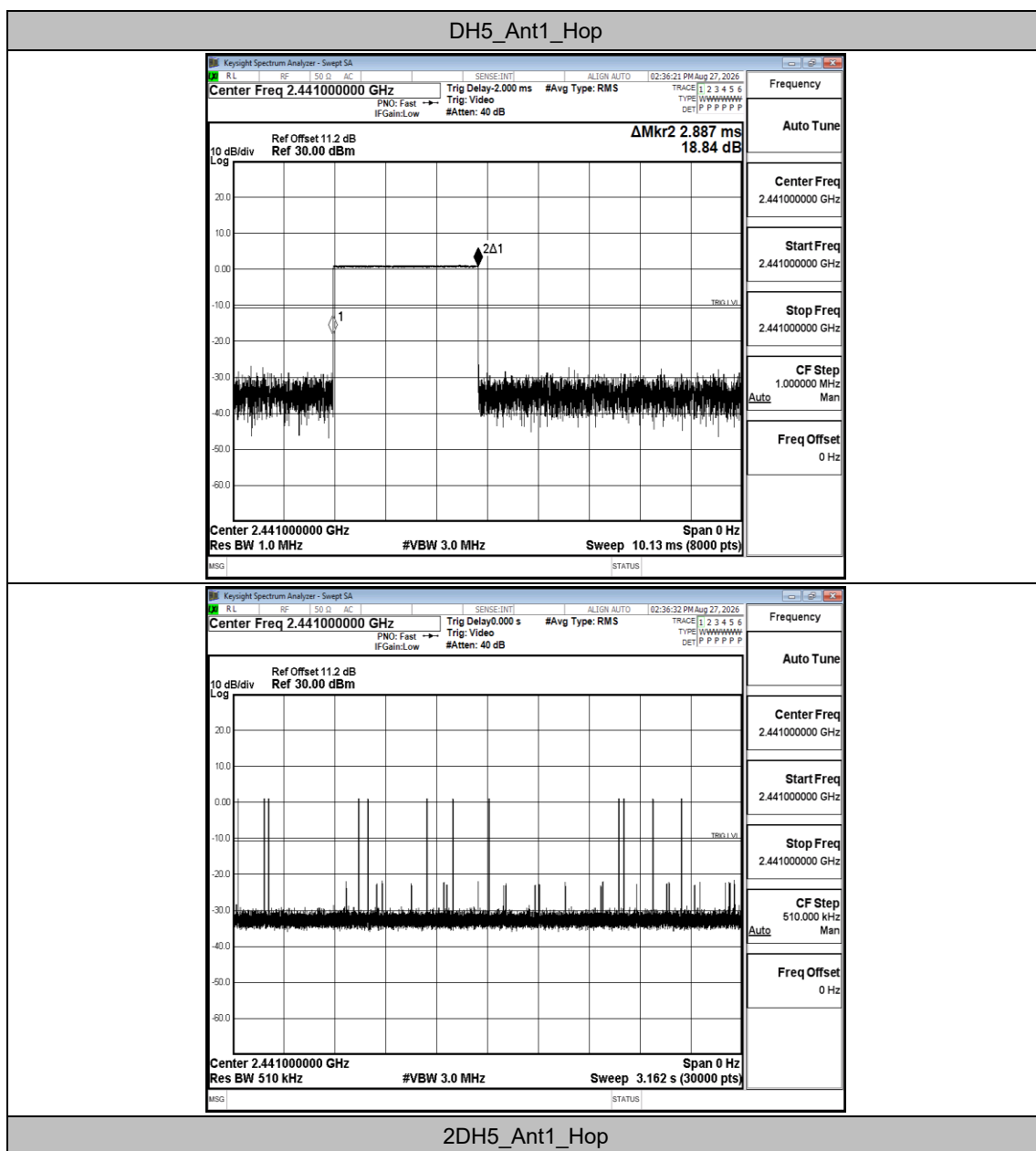


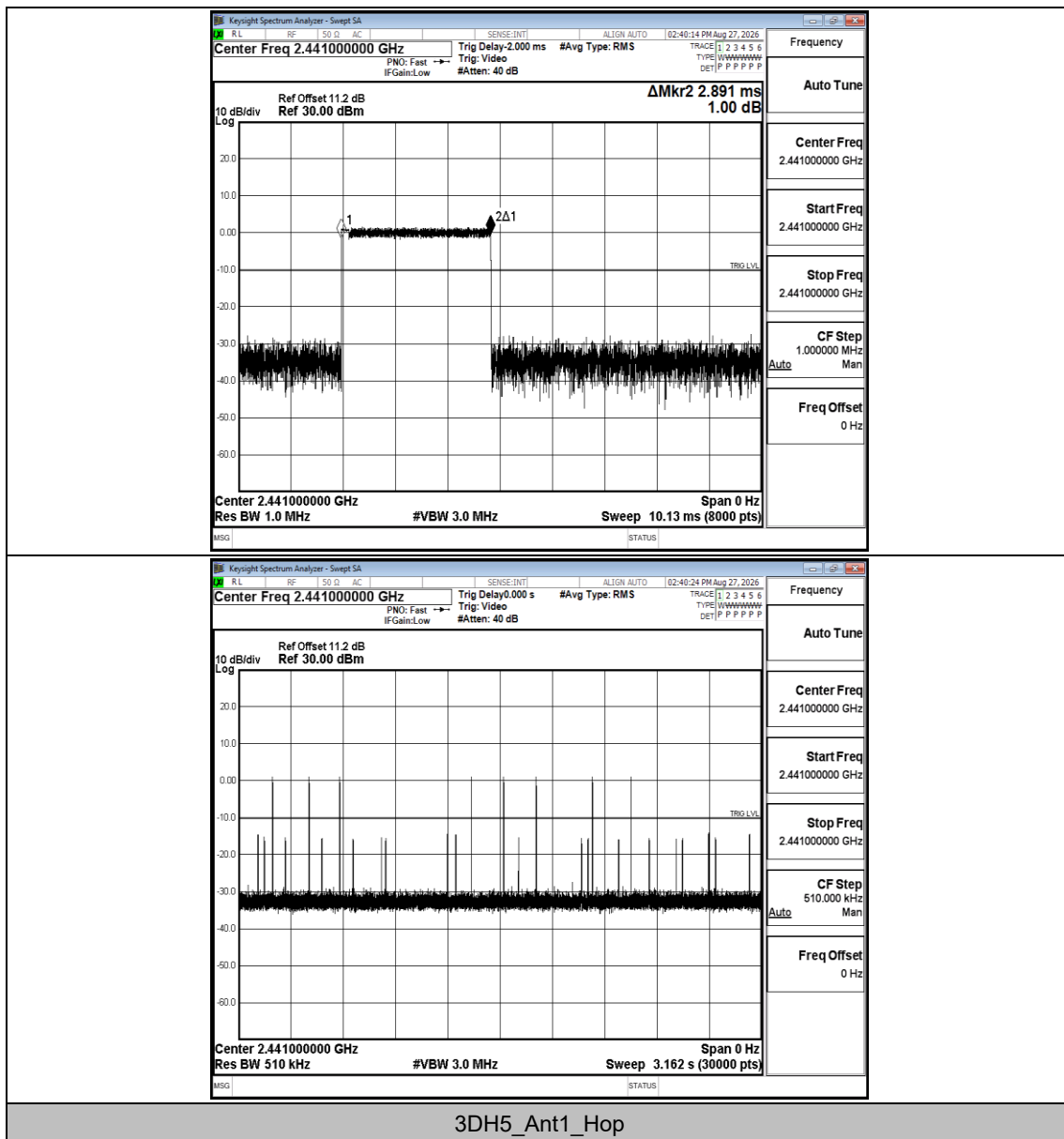
A.4 Time of occupancy

Test Result

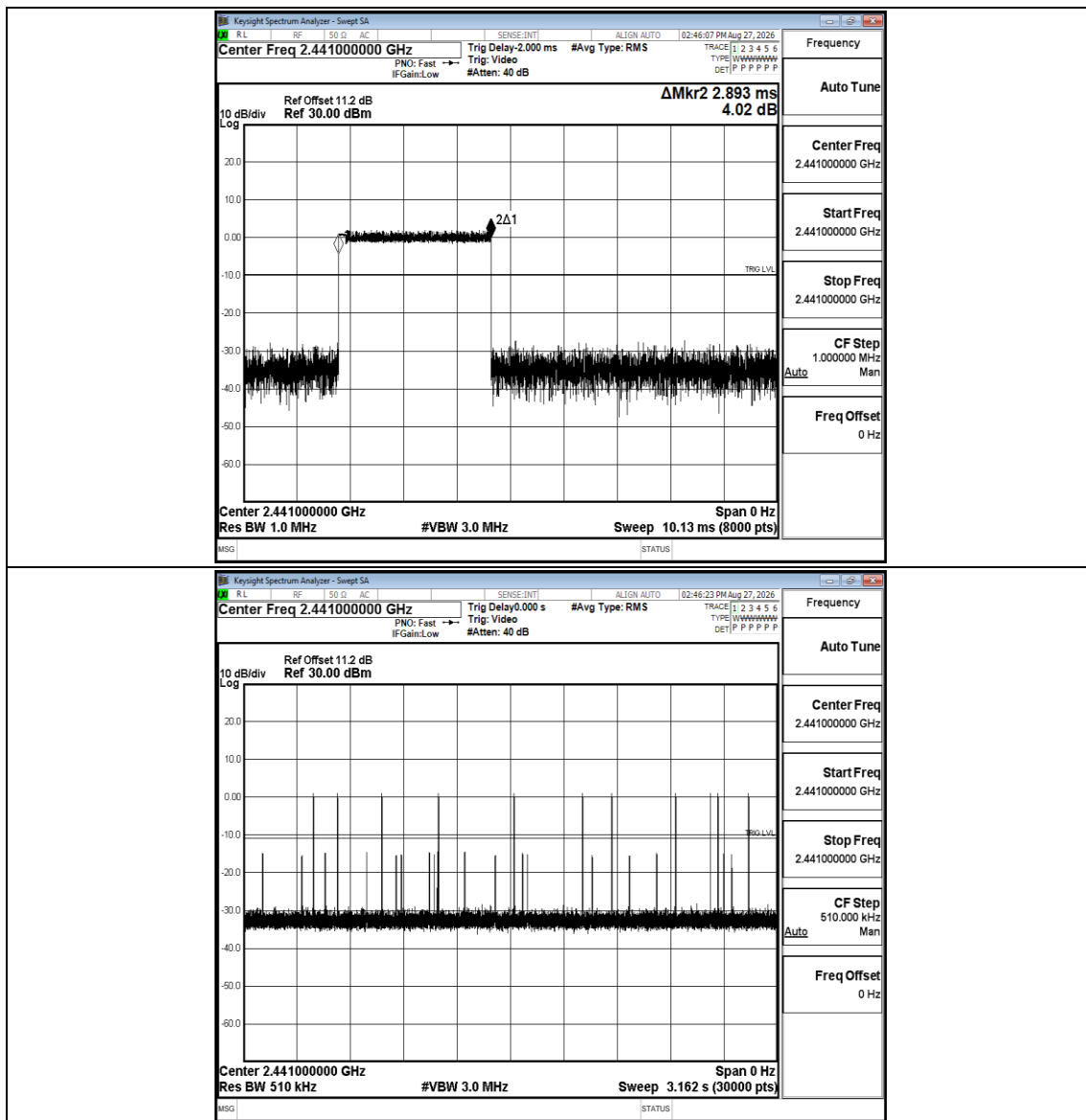
TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.887	130	0.375	≤0.4	PASS
2DH5	Ant1	Hop	2.891	90	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.893	120	0.347	≤0.4	PASS

Test Graphs





3DH5_Ant1_Hop

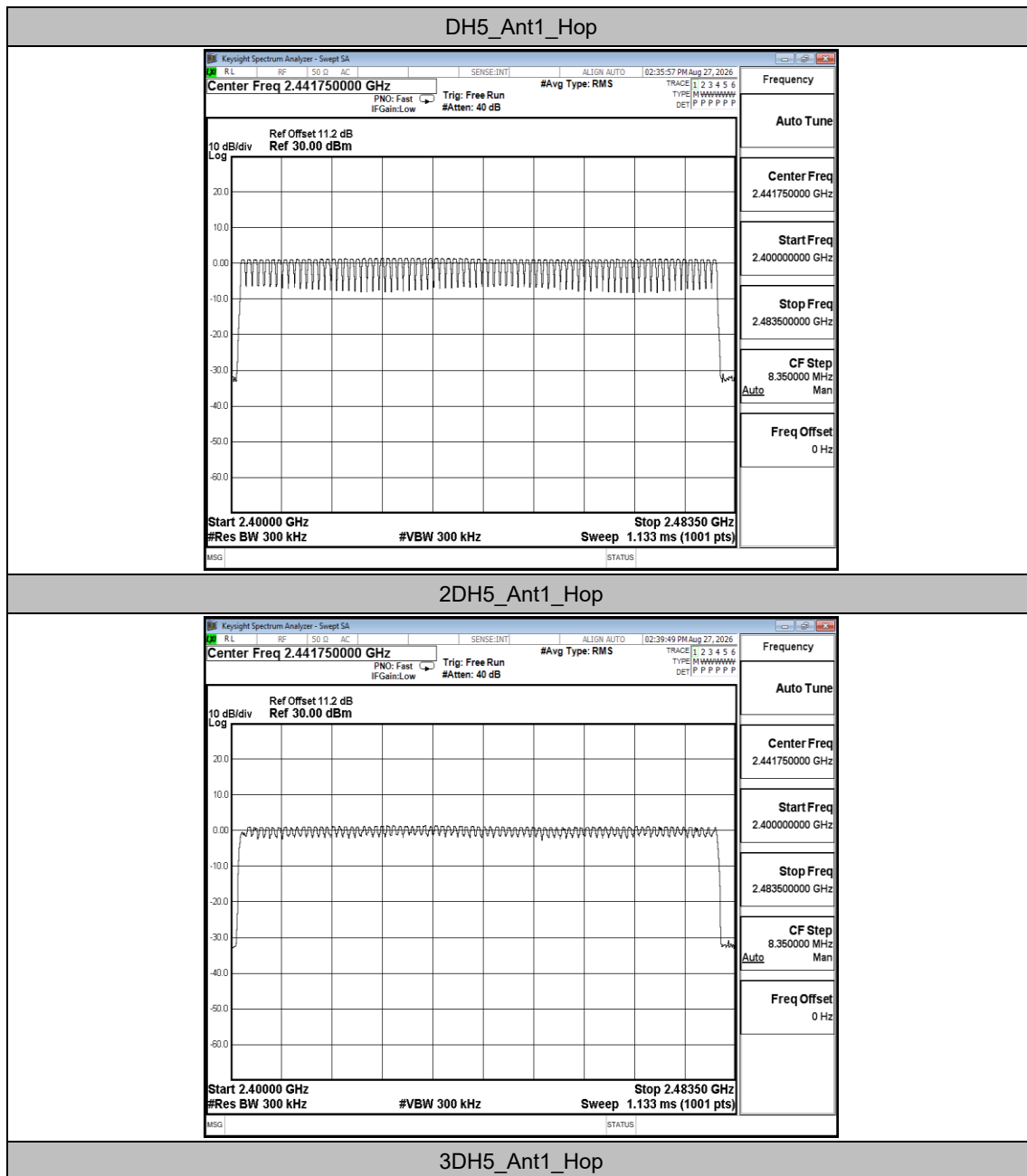


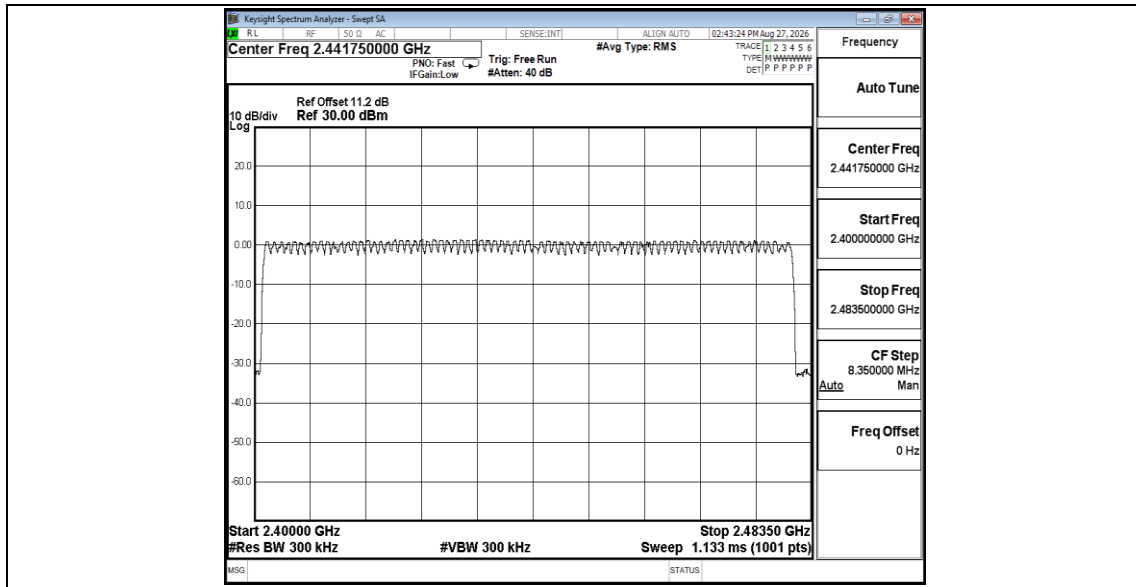
A.5 Number of hopping channels

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



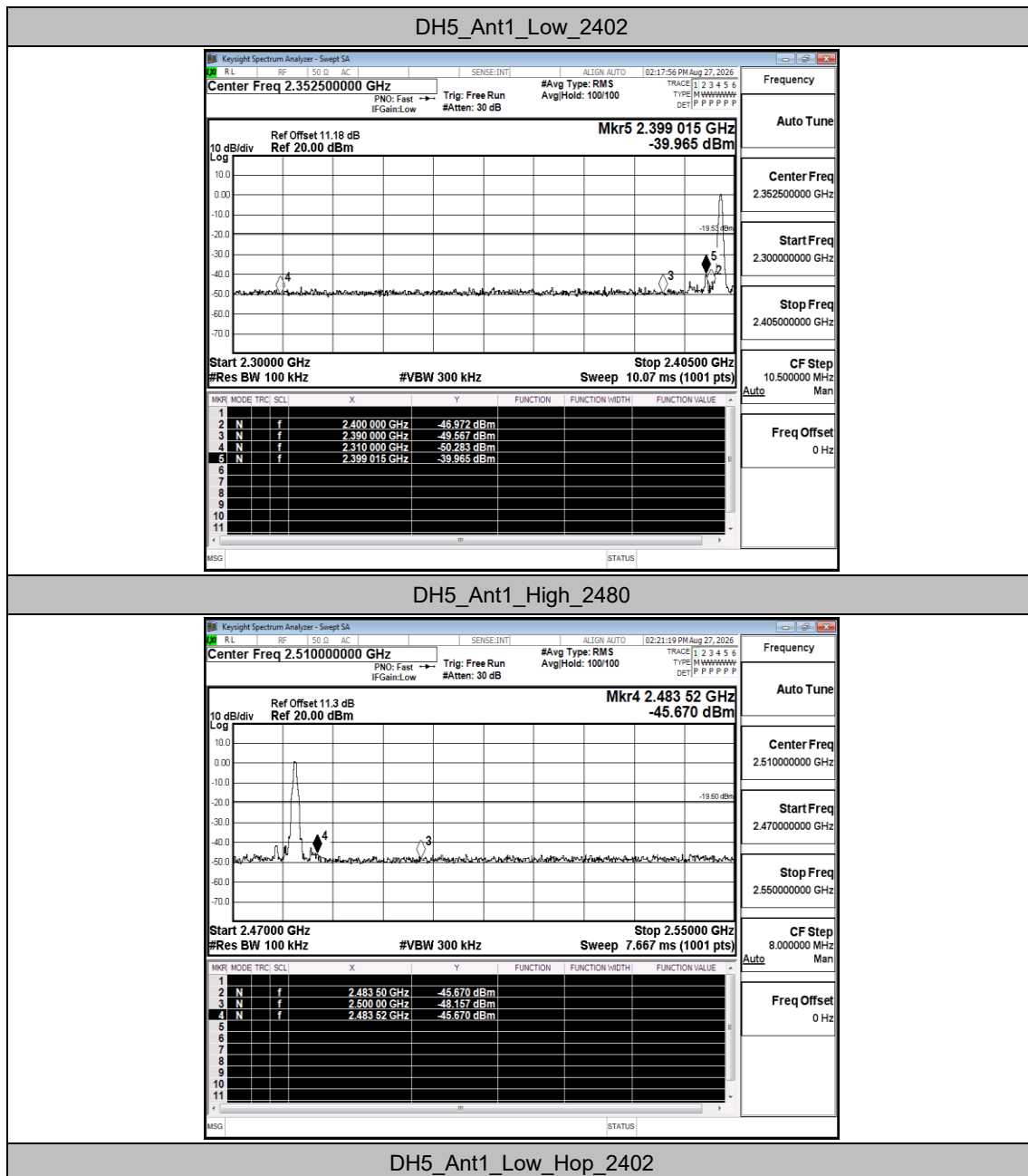


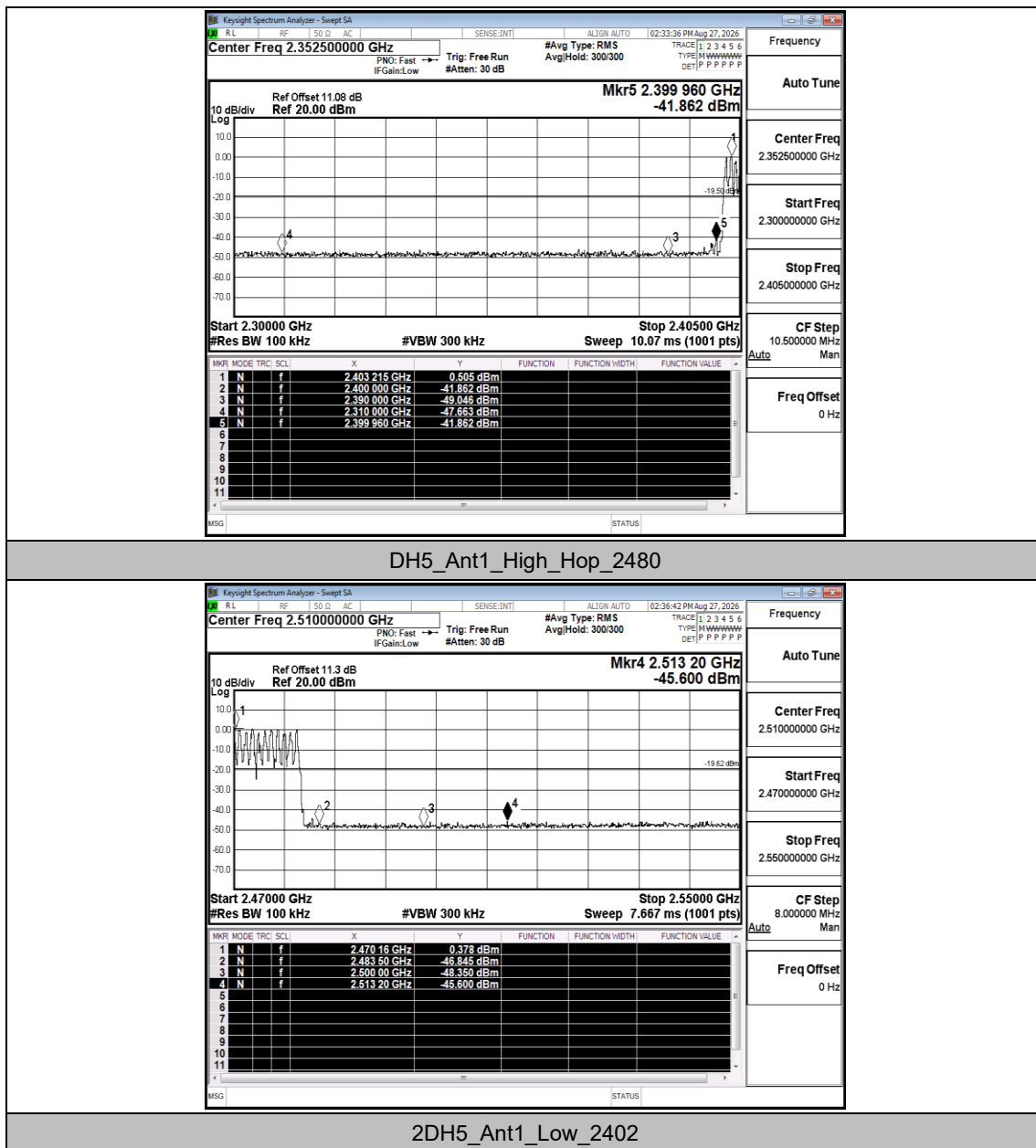
A.6 Band edge measurements

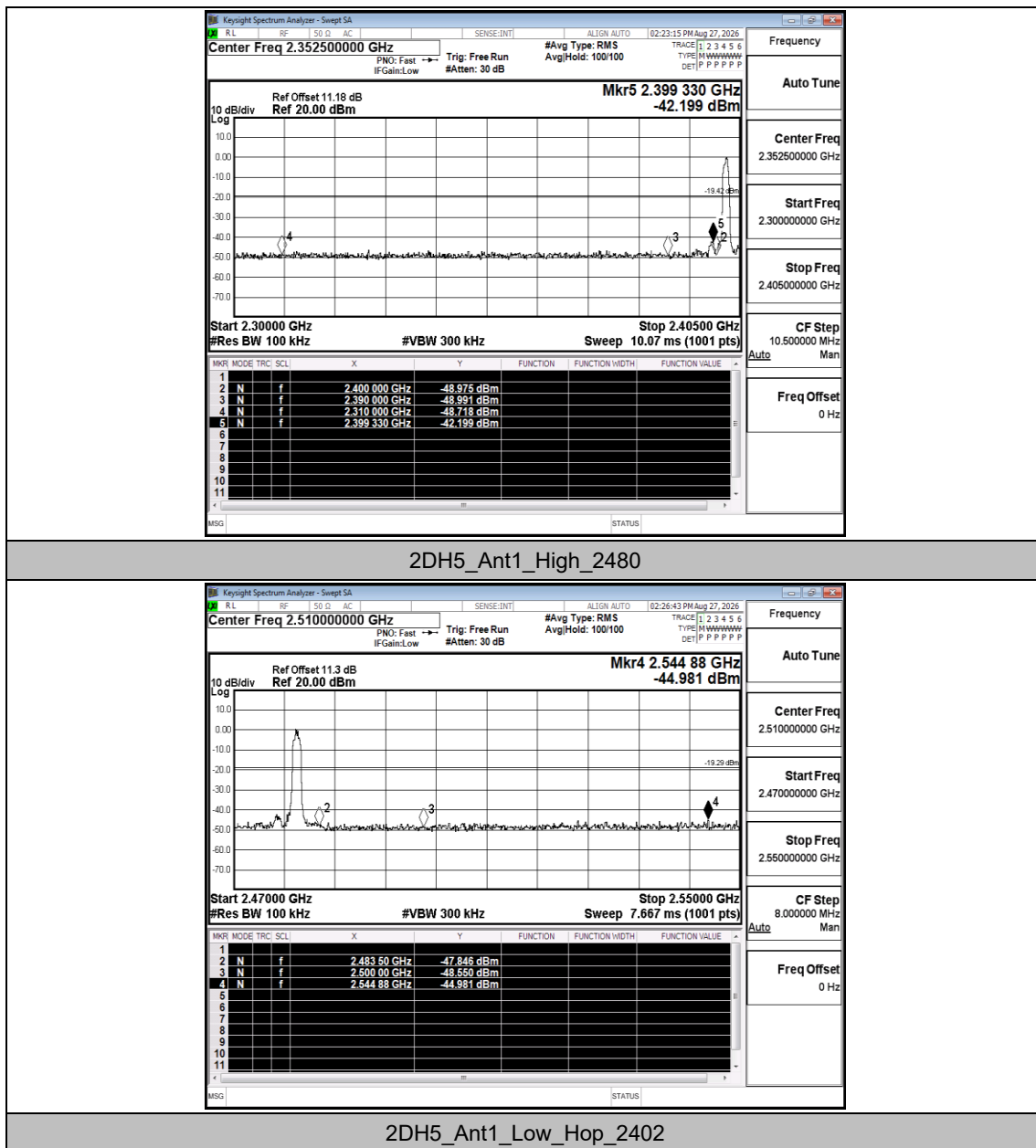
Test Result

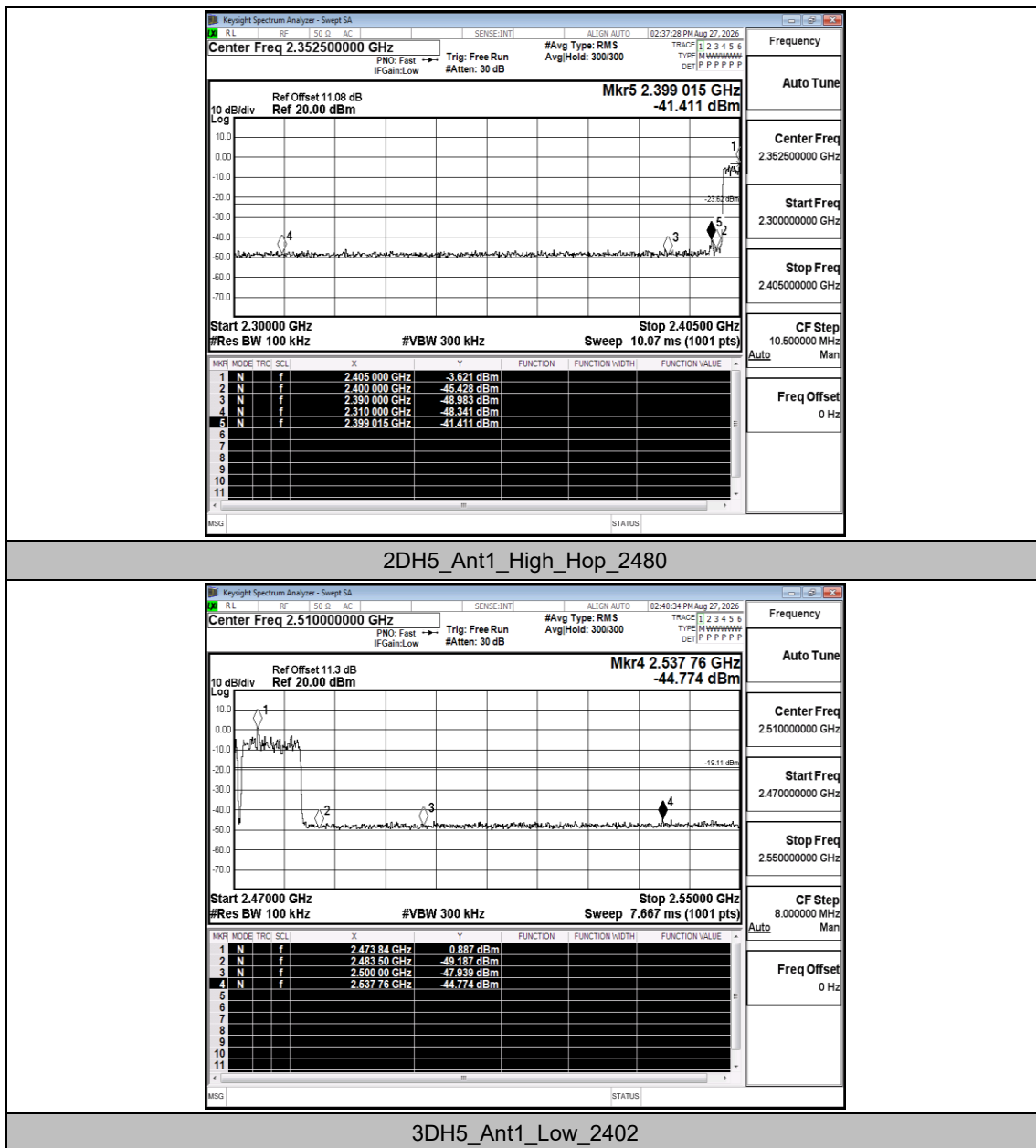
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.47	-39.97	≤-19.53	PASS
		High	2480	0.40	-45.67	≤-19.6	PASS
		Low	Hop_2402	0.51	-41.86	≤-19.5	PASS
		High	Hop_2480	0.38	-45.6	≤-19.62	PASS
2DH5	Ant1	Low	2402	0.58	-42.2	≤-19.42	PASS
		High	2480	0.71	-44.98	≤-19.29	PASS
		Low	Hop_2402	-3.62	-41.41	≤-23.62	PASS
		High	Hop_2480	0.89	-44.77	≤-19.11	PASS
3DH5	Ant1	Low	2402	0.48	-41.27	≤-19.52	PASS
		High	2480	0.25	-45.8	≤-19.75	PASS
		Low	Hop_2402	-3.49	-42.45	≤-23.49	PASS
		High	Hop_2480	0.25	-45.51	≤-19.76	PASS

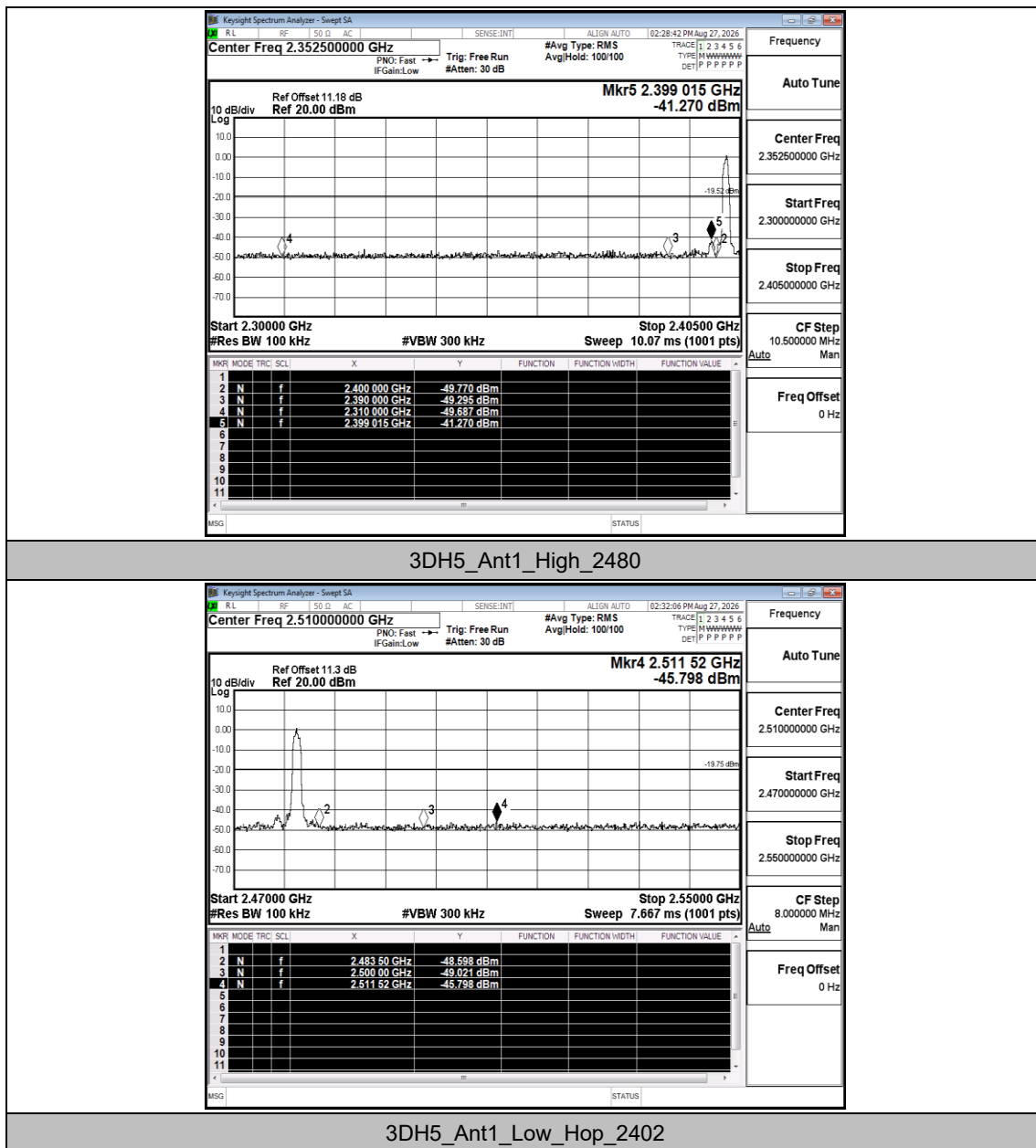
Test Graphs

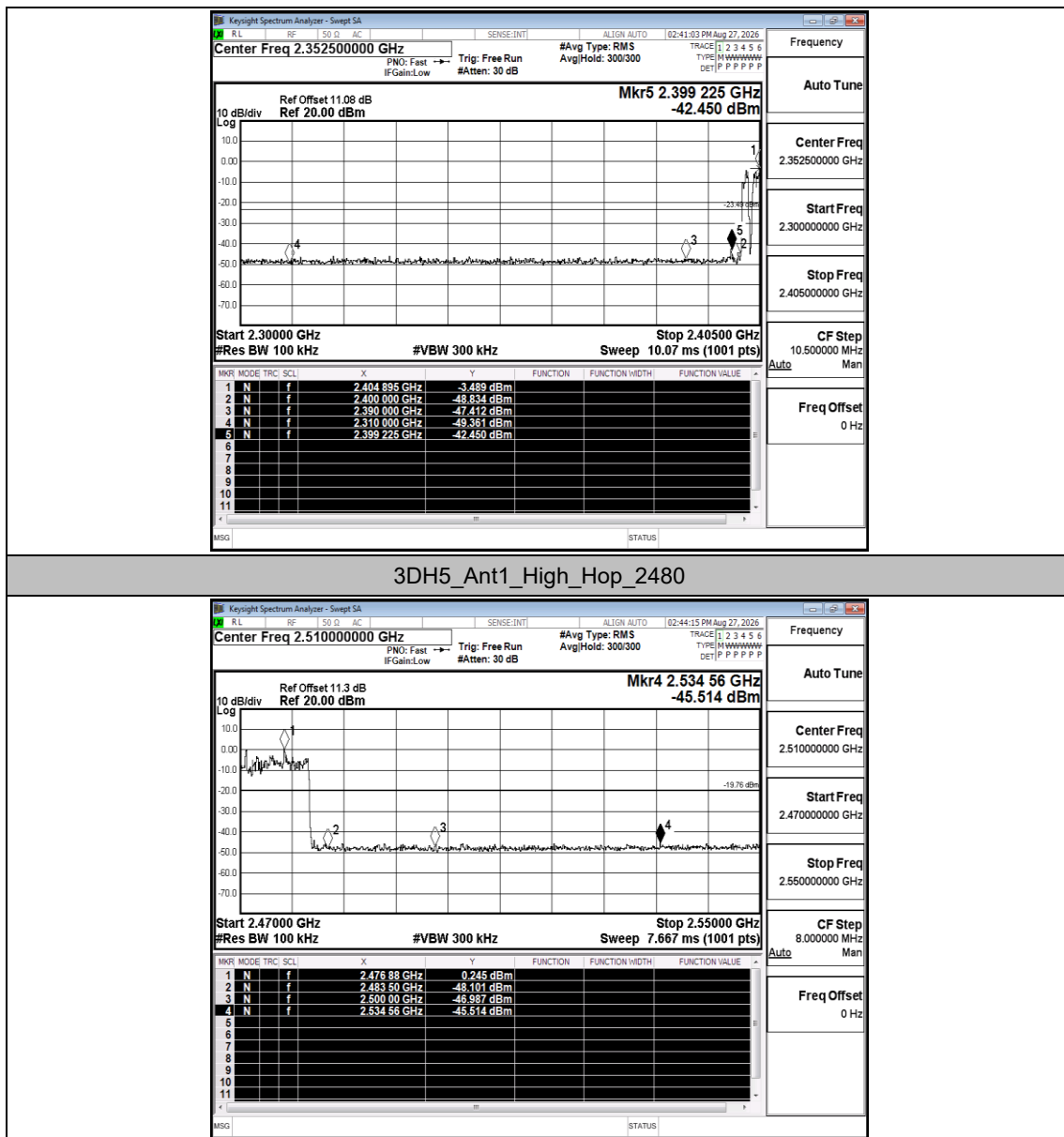












A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-69.71	≤-19.45	PASS
			1000~26500	0.55	-35.5	≤-19.45	PASS
		2441	Reference	0.73	0.73	---	PASS
			30~1000	0.73	-69.77	≤-19.27	PASS
			1000~26500	0.73	-35.23	≤-19.27	PASS
		2480	Reference	0.71	0.71	---	PASS
			30~1000	0.71	-69.65	≤-19.29	PASS
			1000~26500	0.71	-36.01	≤-19.29	PASS
2DH5	Ant1	2402	Reference	0.66	0.66	---	PASS
			30~1000	0.66	-69.92	≤-19.34	PASS
			1000~26500	0.66	-36.15	≤-19.34	PASS
		2441	Reference	0.87	0.87	---	PASS
			30~1000	0.87	-69.62	≤-19.13	PASS
			1000~26500	0.87	-37.58	≤-19.13	PASS
		2480	Reference	0.78	0.78	---	PASS
			30~1000	0.78	-69.88	≤-19.22	PASS
			1000~26500	0.78	-37.63	≤-19.22	PASS
3DH5	Ant1	2402	Reference	0.56	0.56	---	PASS
			30~1000	0.56	-70.28	≤-19.44	PASS
			1000~26500	0.56	-37.5	≤-19.44	PASS
		2441	Reference	0.75	0.75	---	PASS
			30~1000	0.75	-69.51	≤-19.25	PASS
			1000~26500	0.75	-38.72	≤-19.25	PASS
		2480	Reference	0.67	0.67	---	PASS
			30~1000	0.67	-69.61	≤-19.33	PASS
			1000~26500	0.67	-37.11	≤-19.33	PASS

Test Graphs

