

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: WIRELESS EARBUDS

Test Model: BC-AU-BE-147-AC

Environmental Conditions

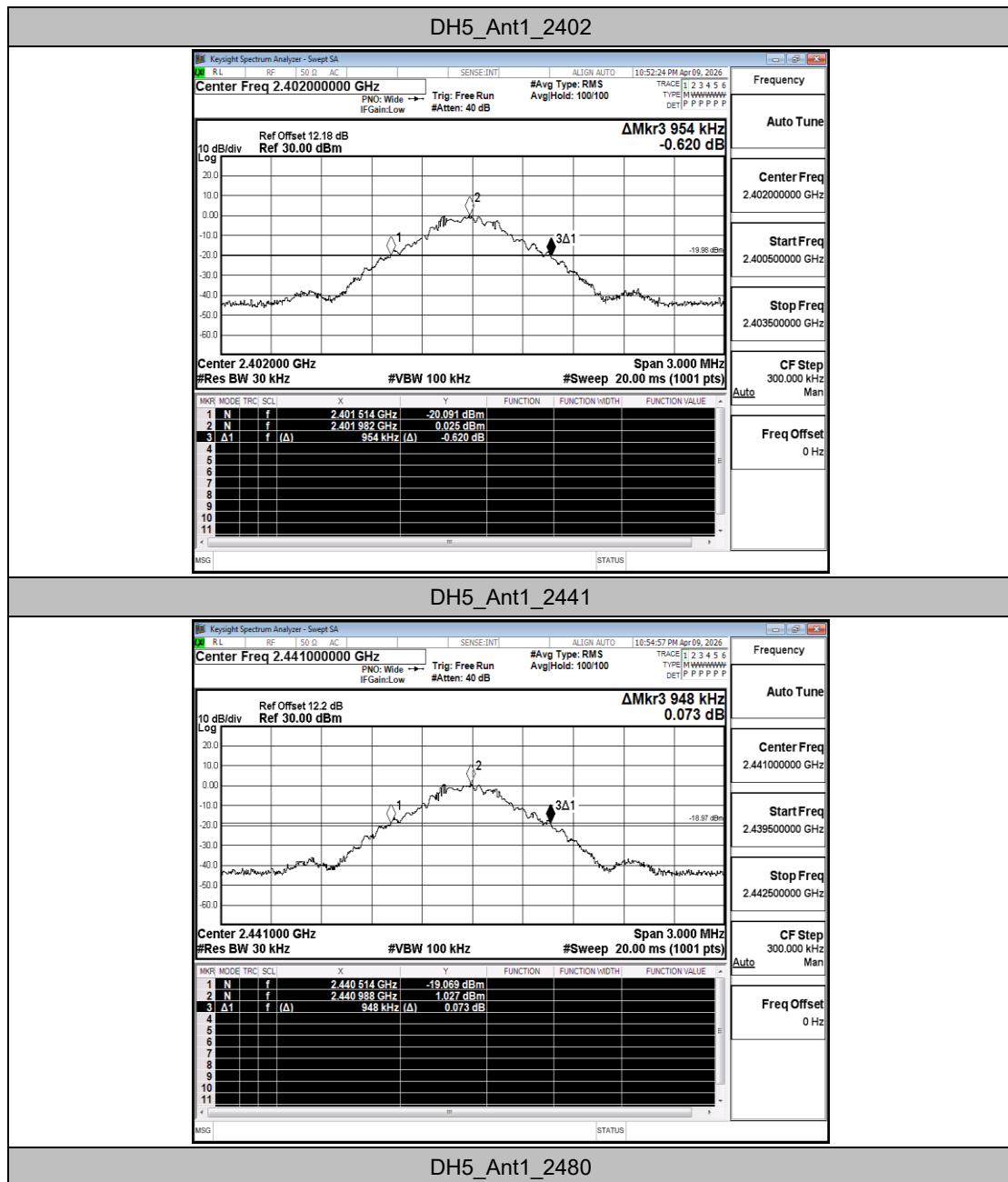
Temperature:	24.1°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

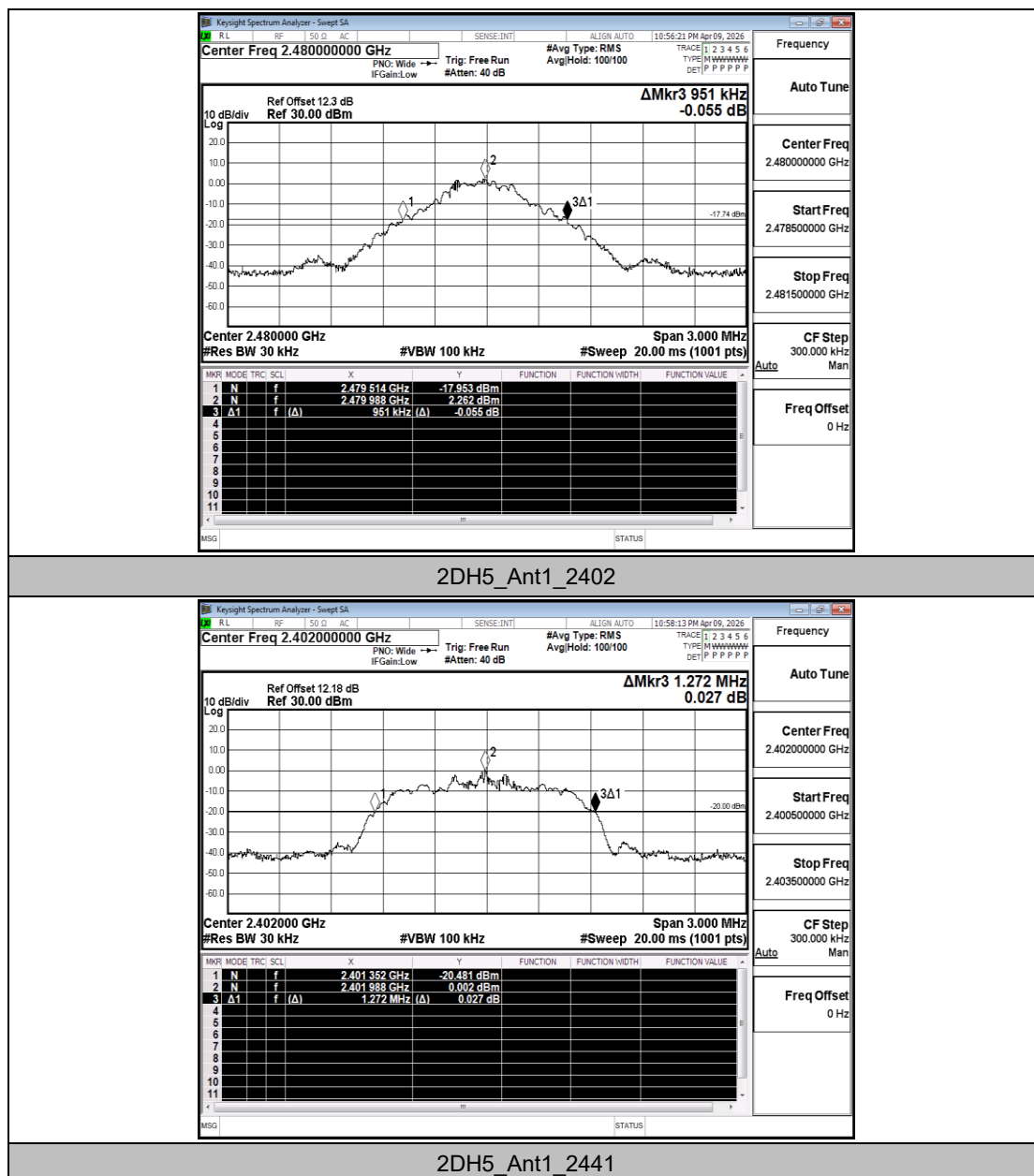
A.1 20dB Emission Bandwidth

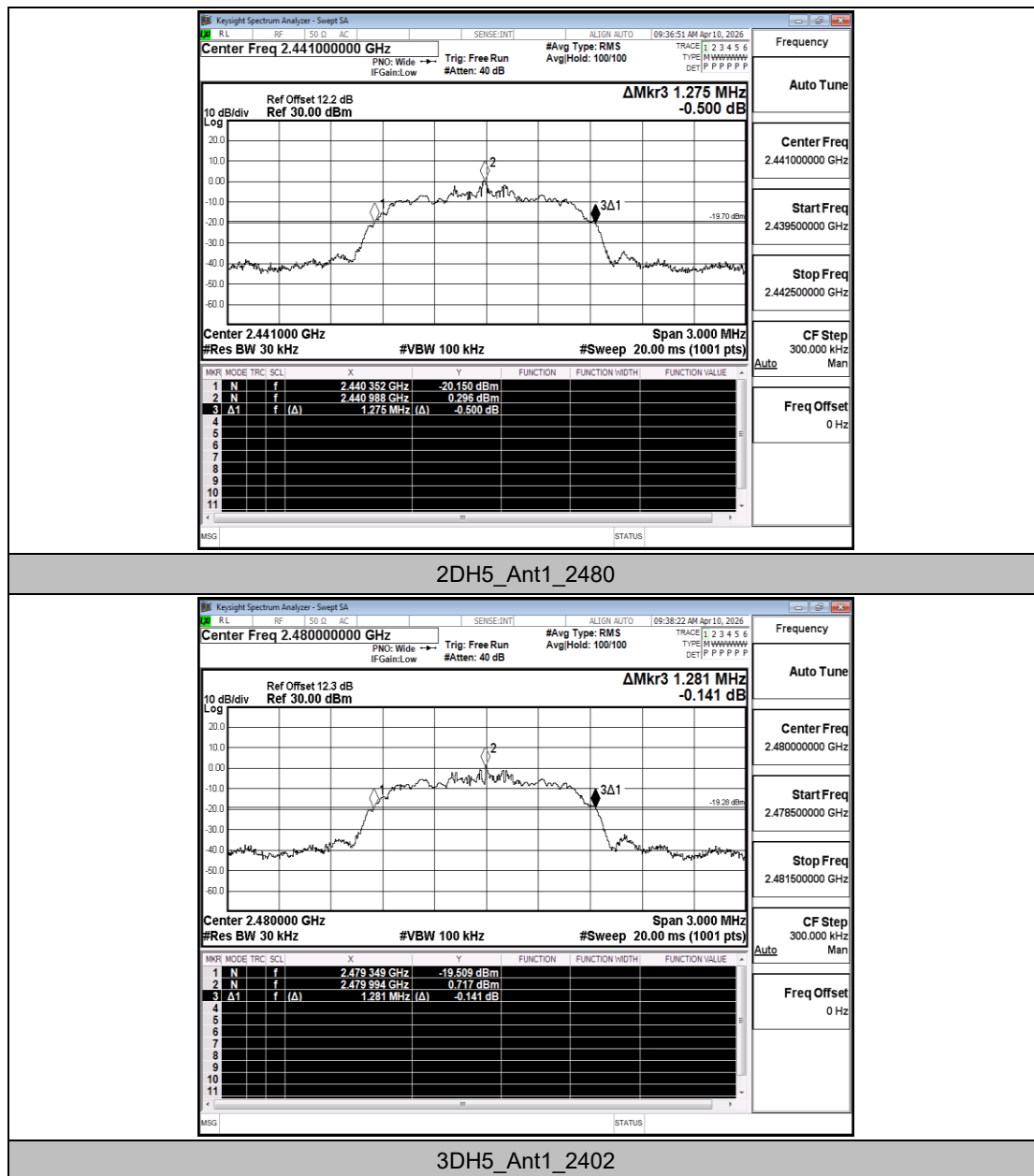
Test Result

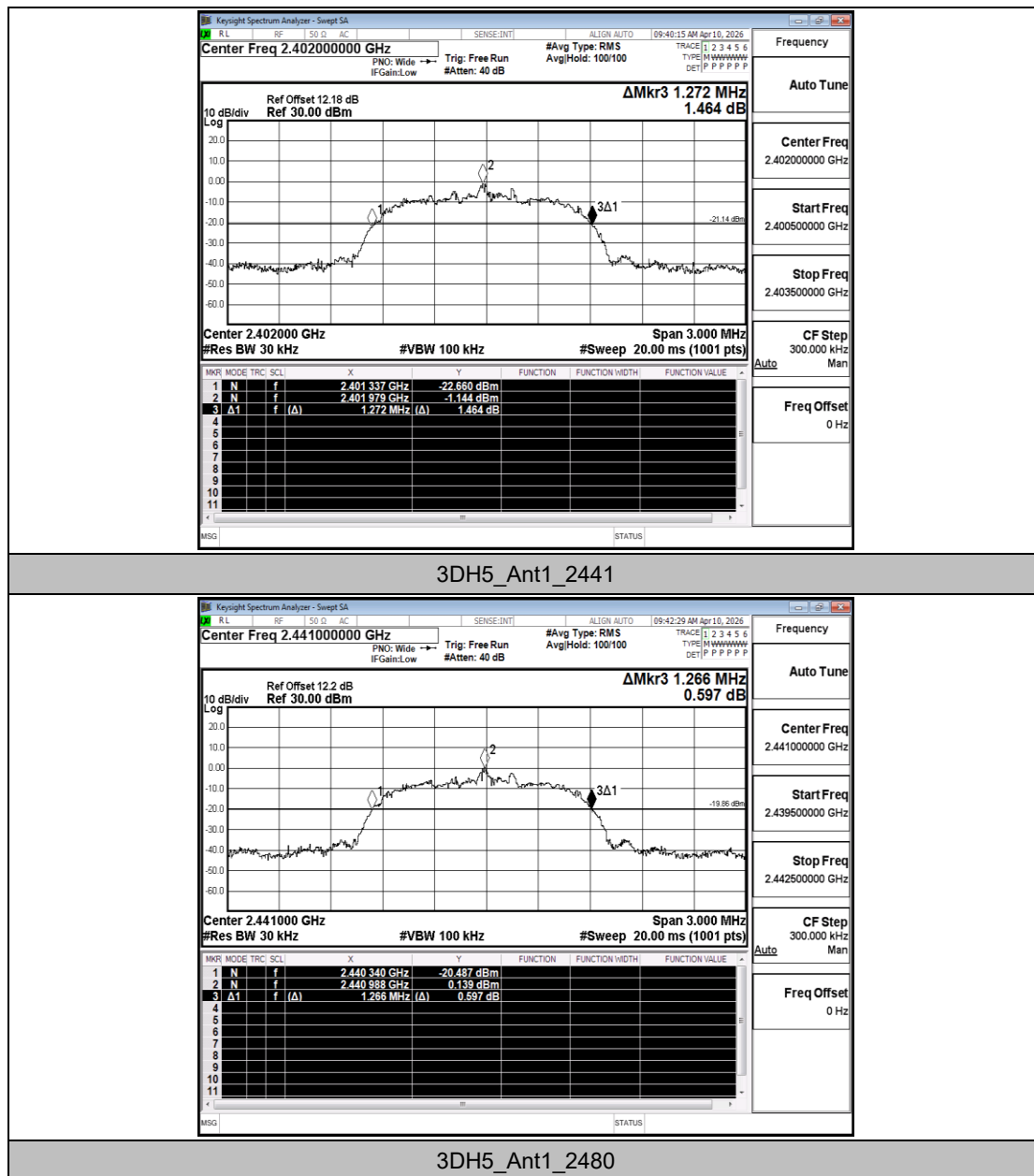
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.954	2401.514	2402.468	---	---
		2441	0.948	2440.514	2441.462	---	---
		2480	0.951	2479.514	2480.465	---	---
2DH5	Ant1	2402	1.272	2401.352	2402.624	---	---
		2441	1.275	2440.352	2441.627	---	---
		2480	1.281	2479.349	2480.630	---	---
3DH5	Ant1	2402	1.272	2401.337	2402.609	---	---
		2441	1.266	2440.340	2441.606	---	---
		2480	1.266	2479.340	2480.606	---	---

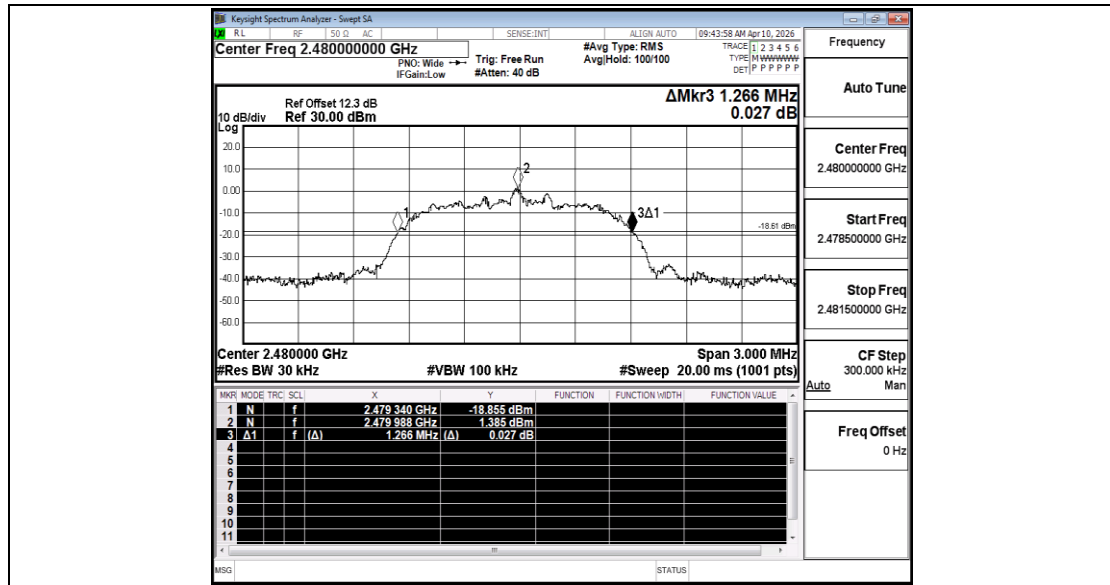
Test Graphs









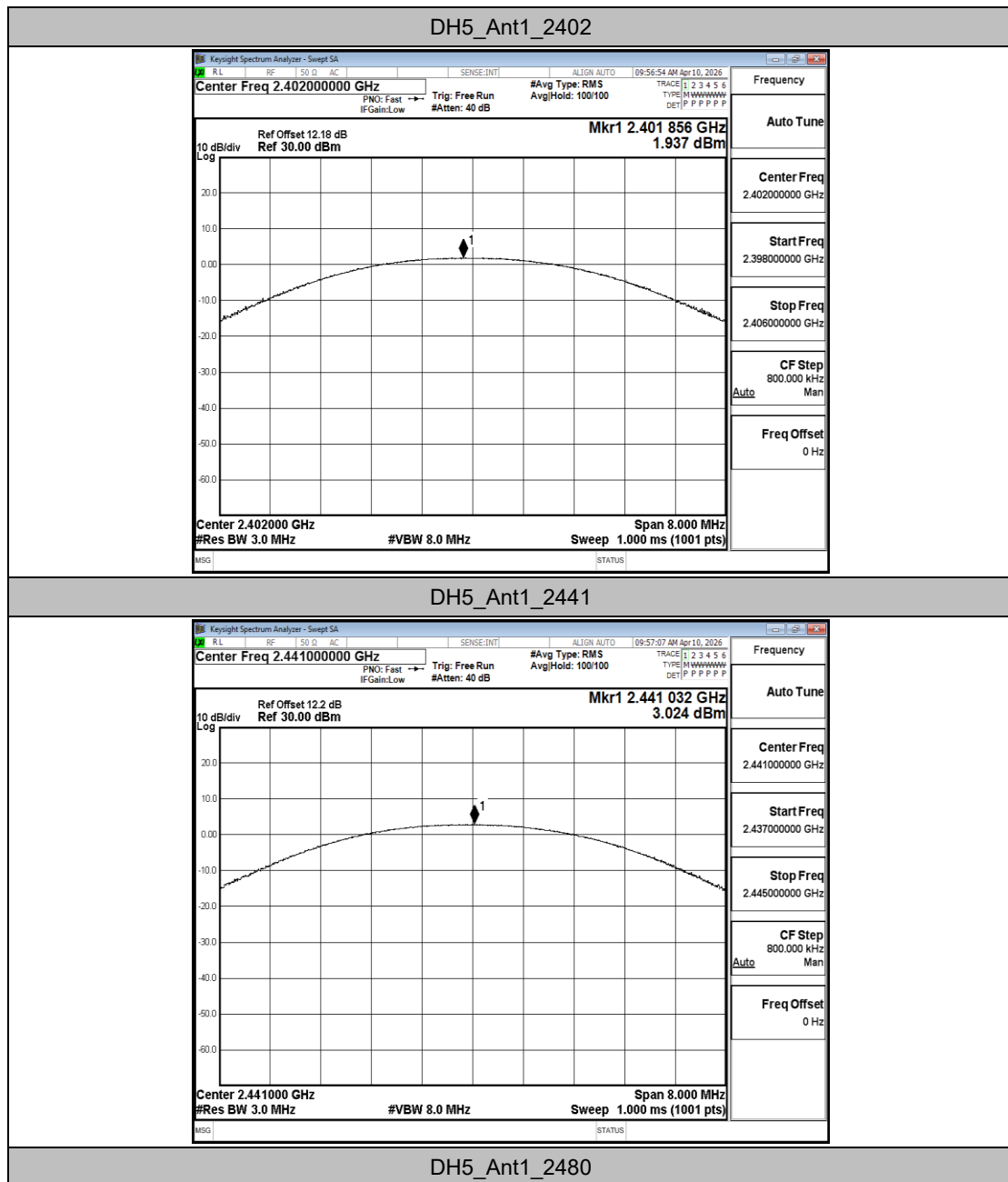


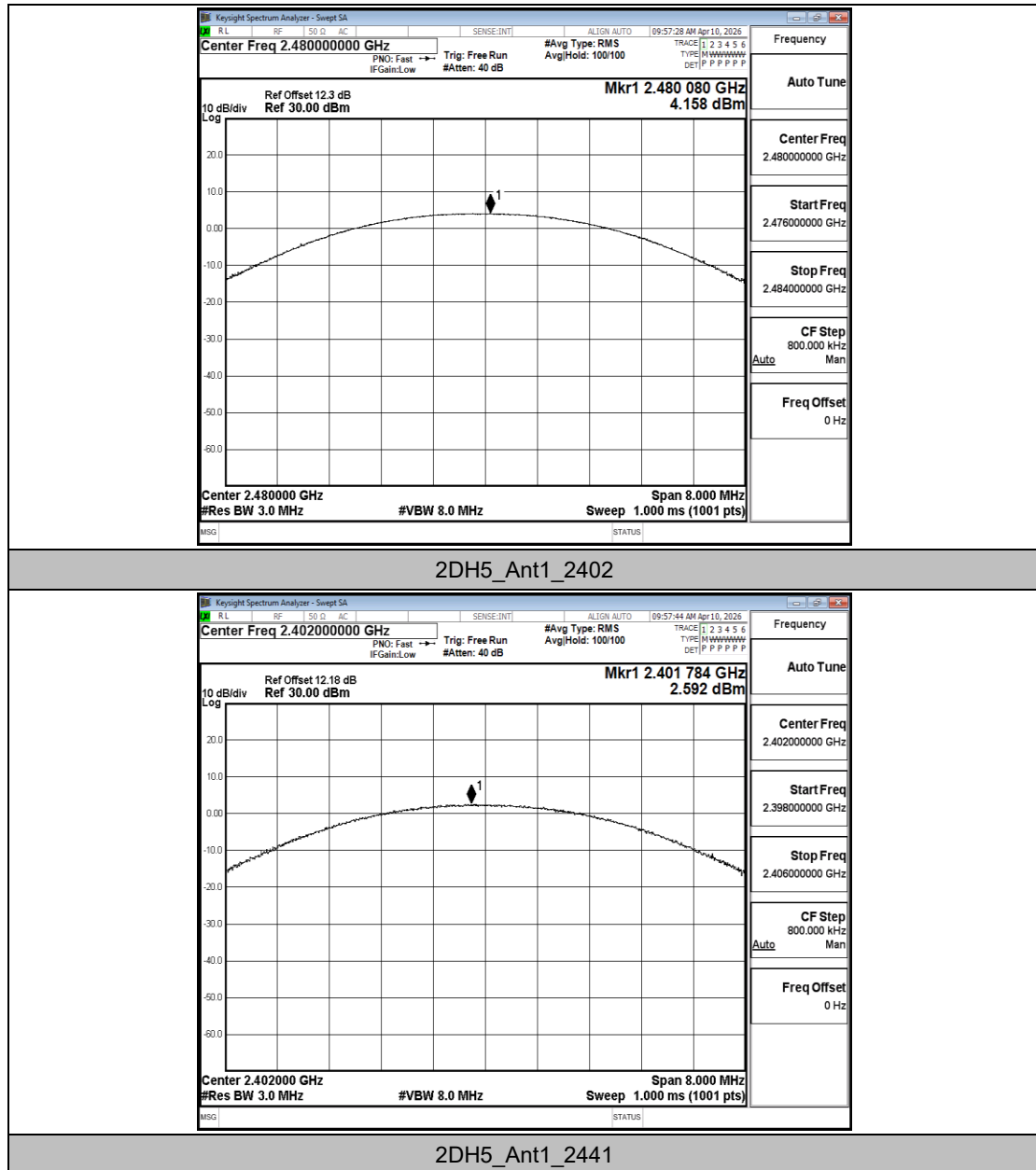
A.2 Maximum Peak conducted output power

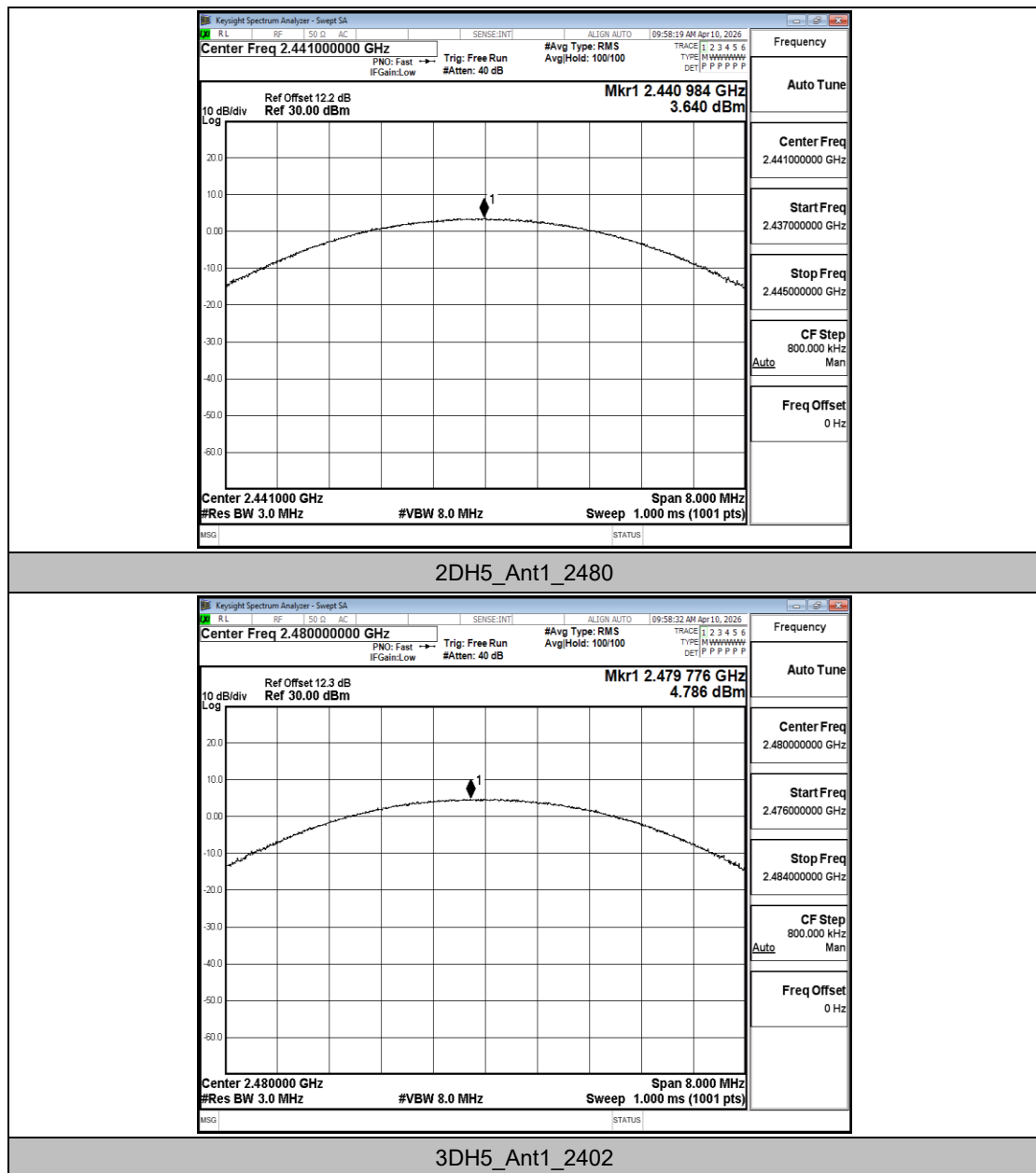
Test Result Peak

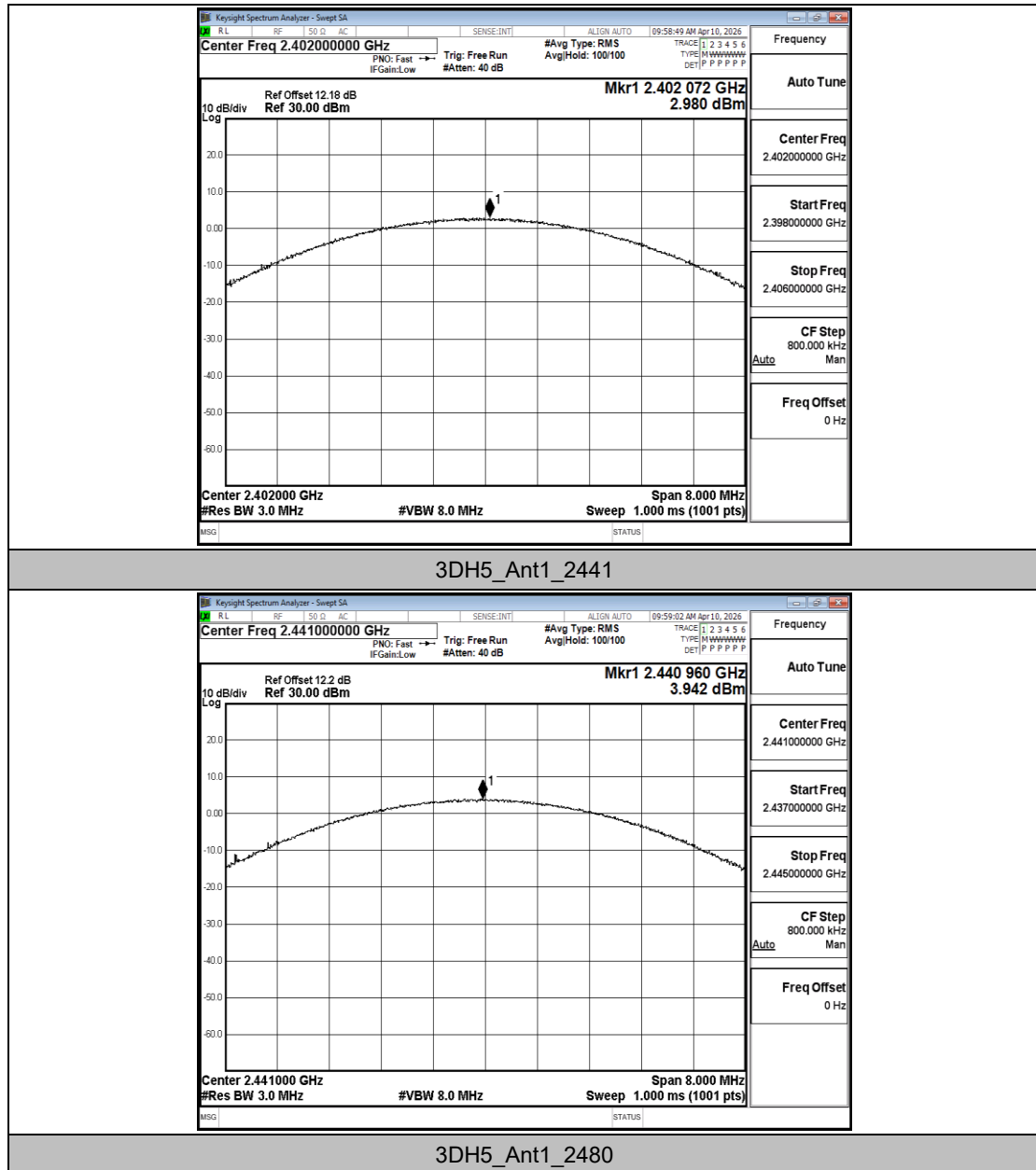
Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.94	≤30	PASS
		2441	3.02	≤30	PASS
		2480	4.16	≤30	PASS
2DH5	Ant1	2402	2.59	≤20.97	PASS
		2441	3.64	≤20.97	PASS
		2480	4.79	≤20.97	PASS
3DH5	Ant1	2402	2.98	≤20.97	PASS
		2441	3.94	≤20.97	PASS
		2480	1.97	≤20.97	PASS

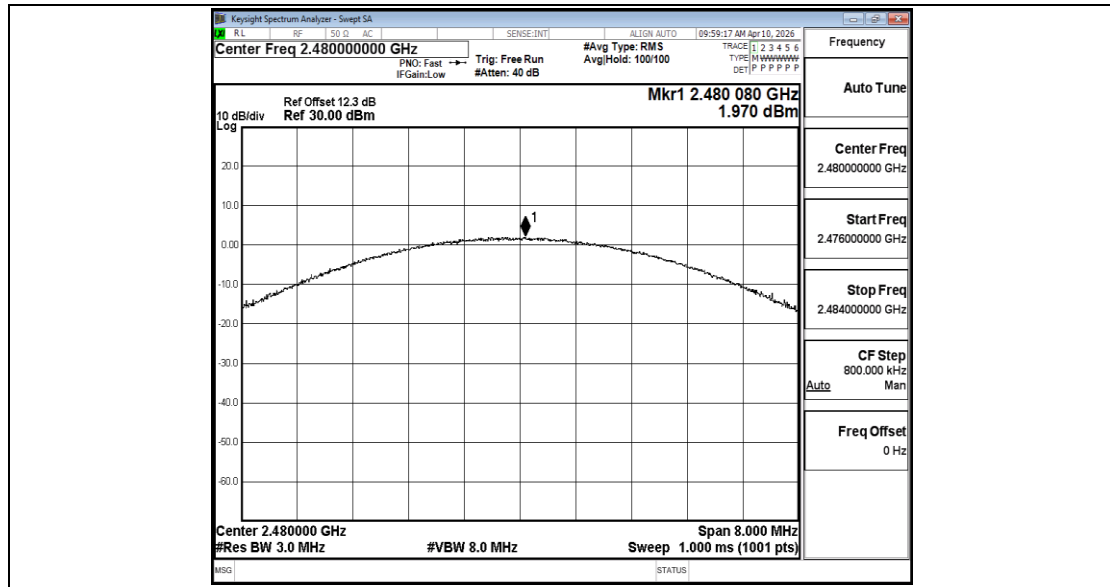
Test Graphs









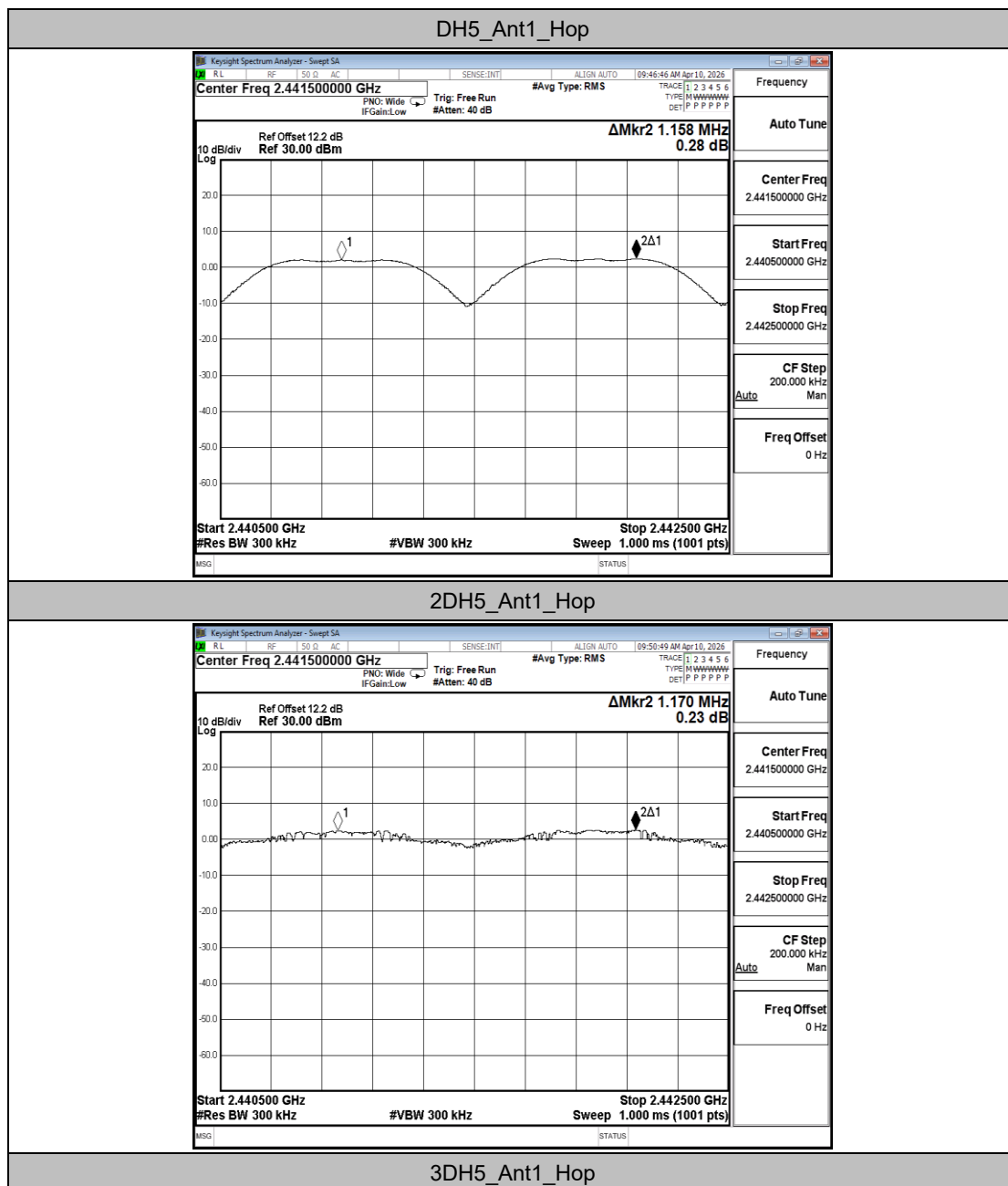


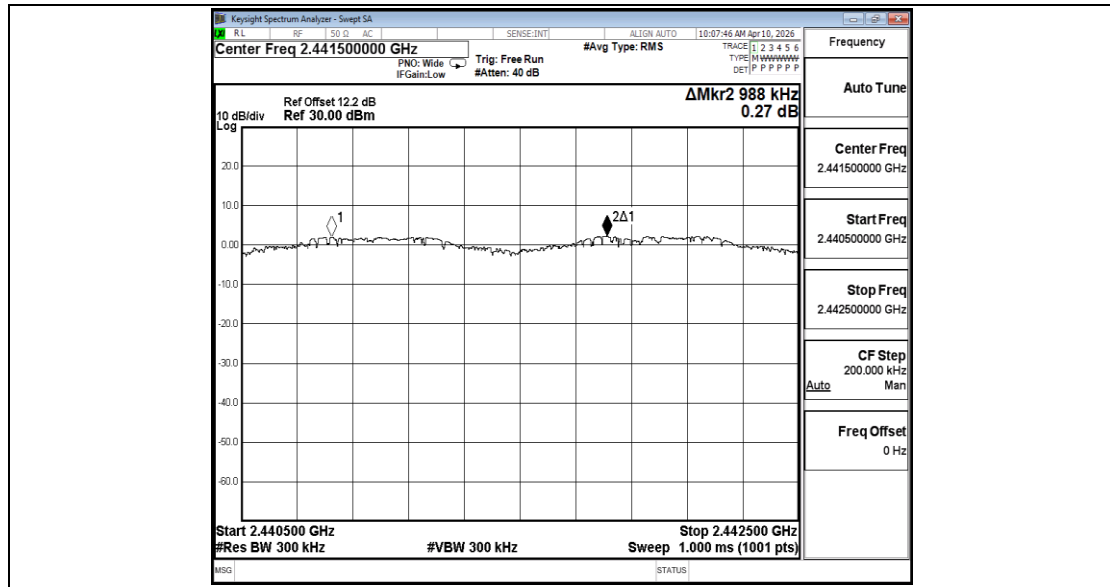
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.158	≥ 0.954	PASS
2DH5	Ant1	Hop	1.17	≥ 0.854	PASS
3DH5	Ant1	Hop	0.988	≥ 0.848	PASS

Test Graphs



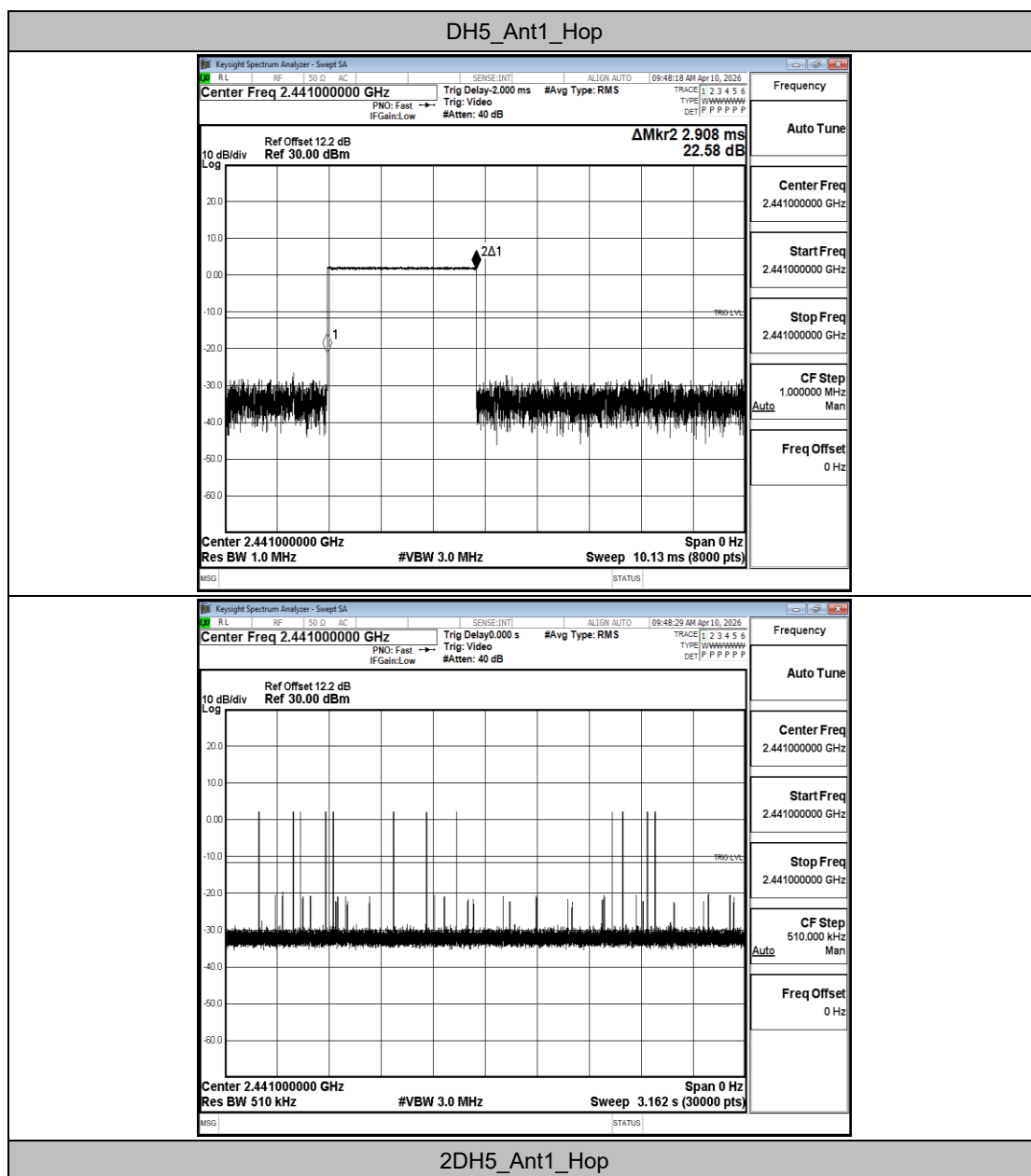


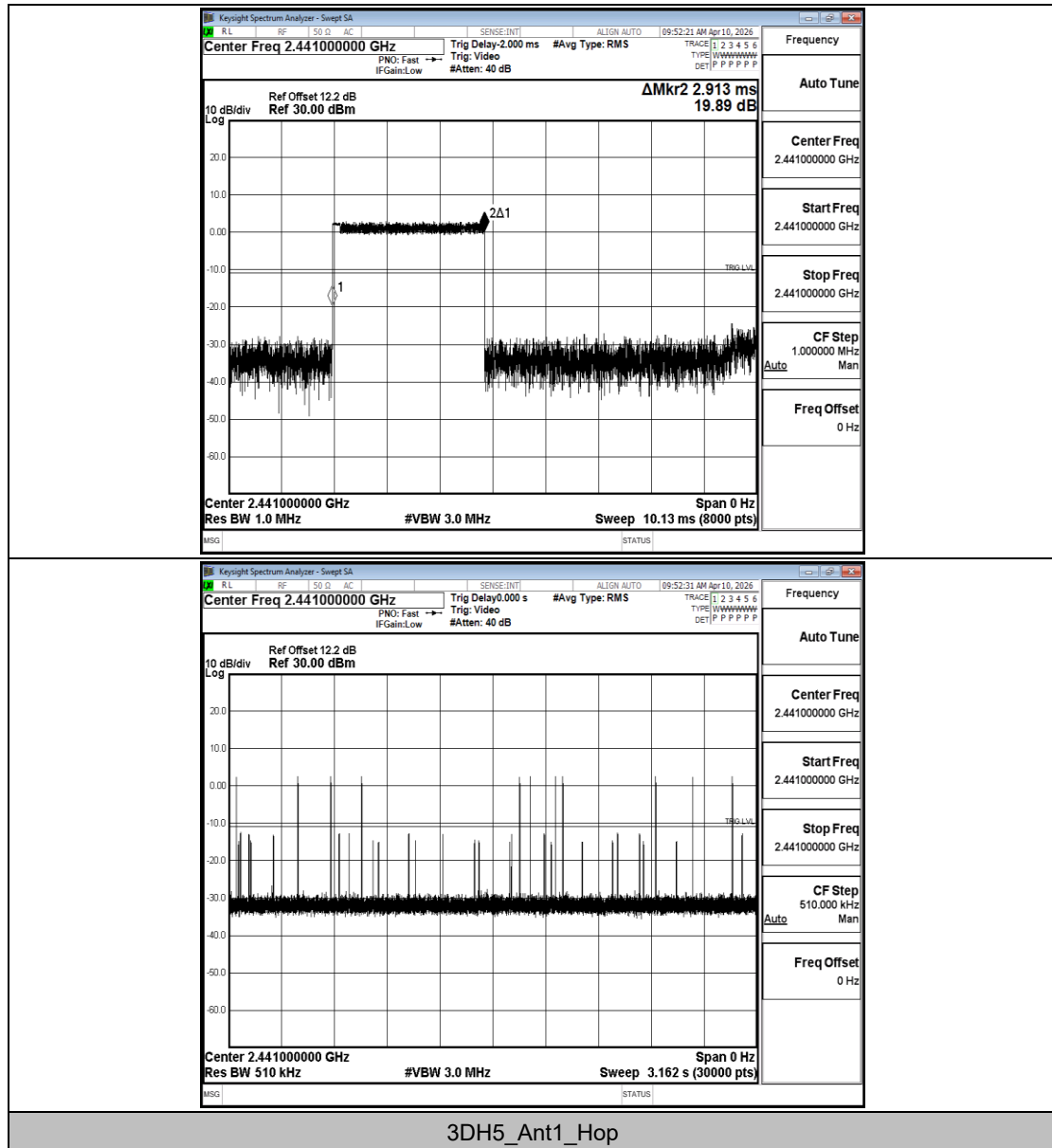
A.4 Time of occupancy

Test Result

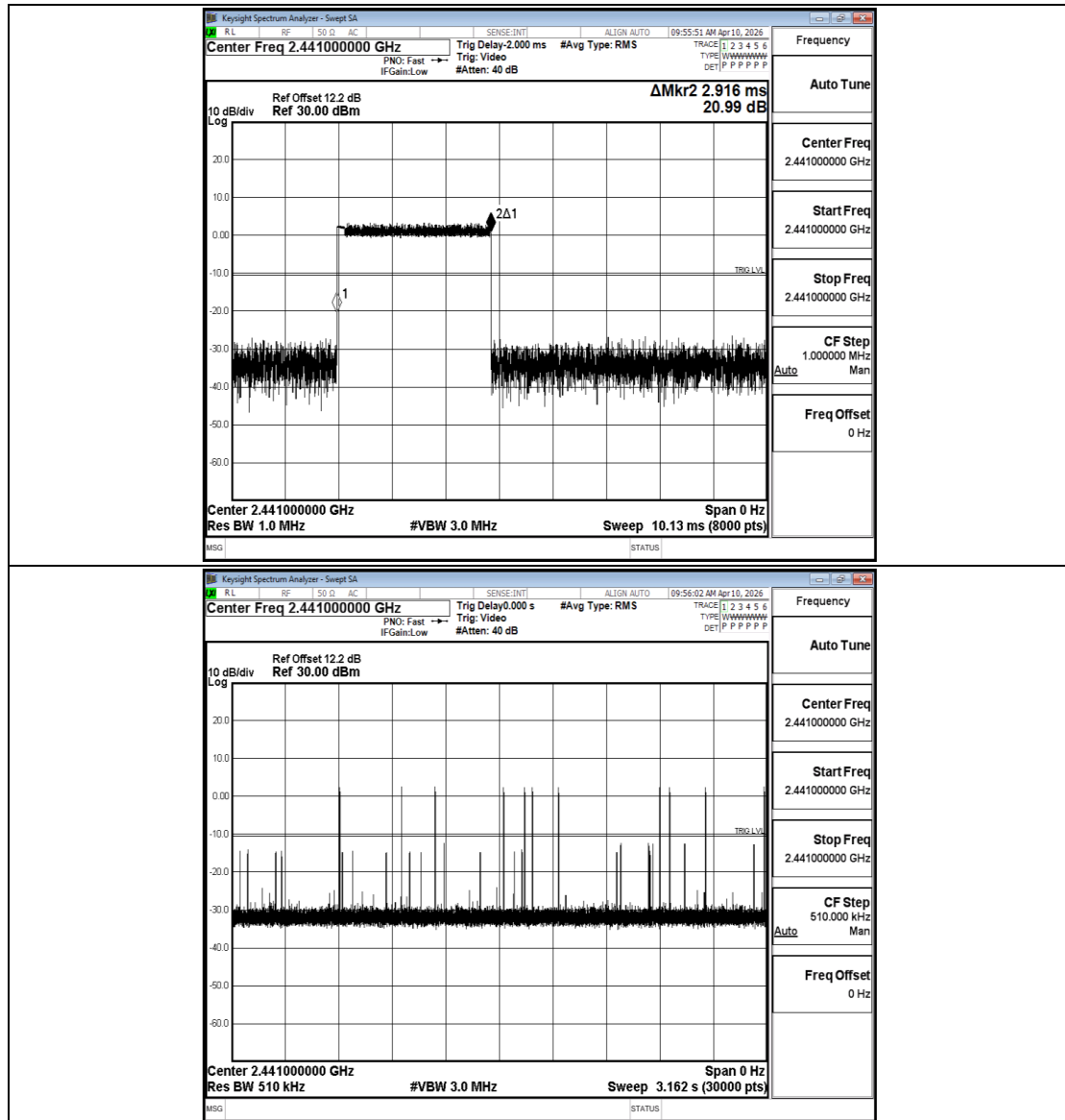
TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	130	0.378	≤0.4	PASS
2DH5	Ant1	Hop	2.913	120	0.35	≤0.4	PASS
3DH5	Ant1	Hop	2.916	120	0.35	≤0.4	PASS

Test Graphs





3DH5_Ant1_Hop

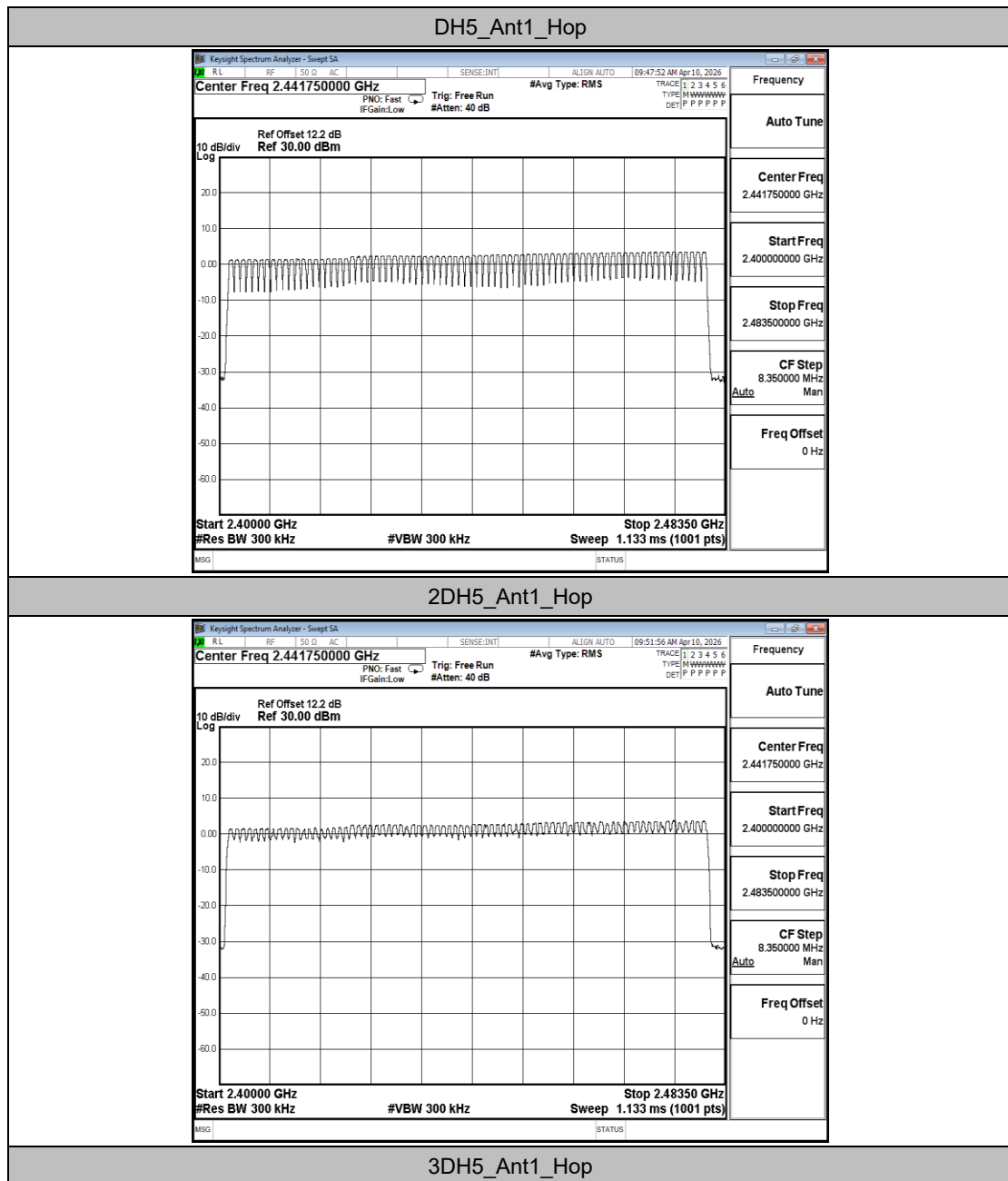


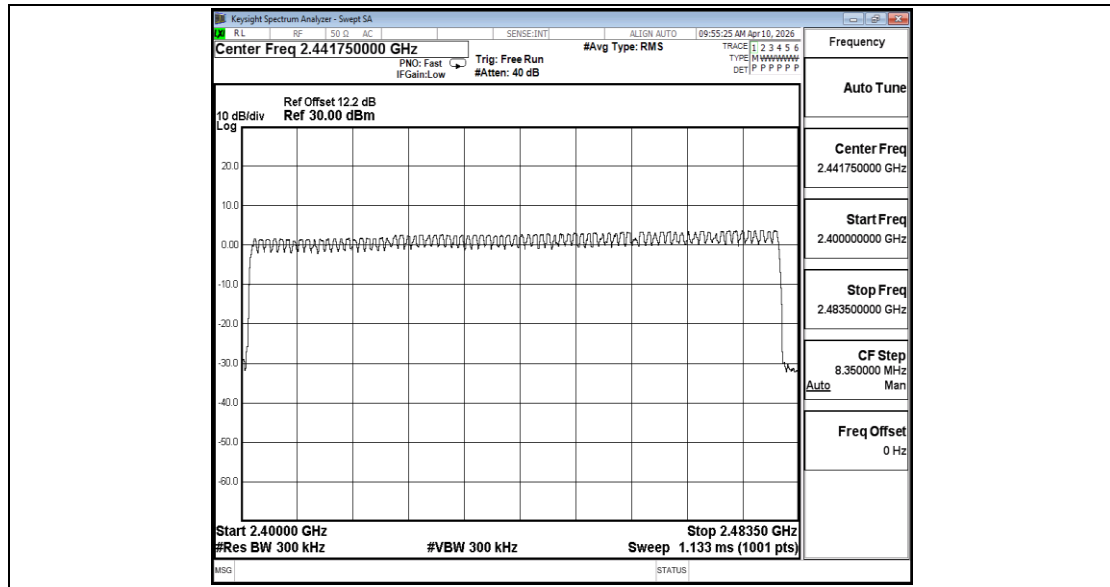
A.5 Number of hopping channels

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



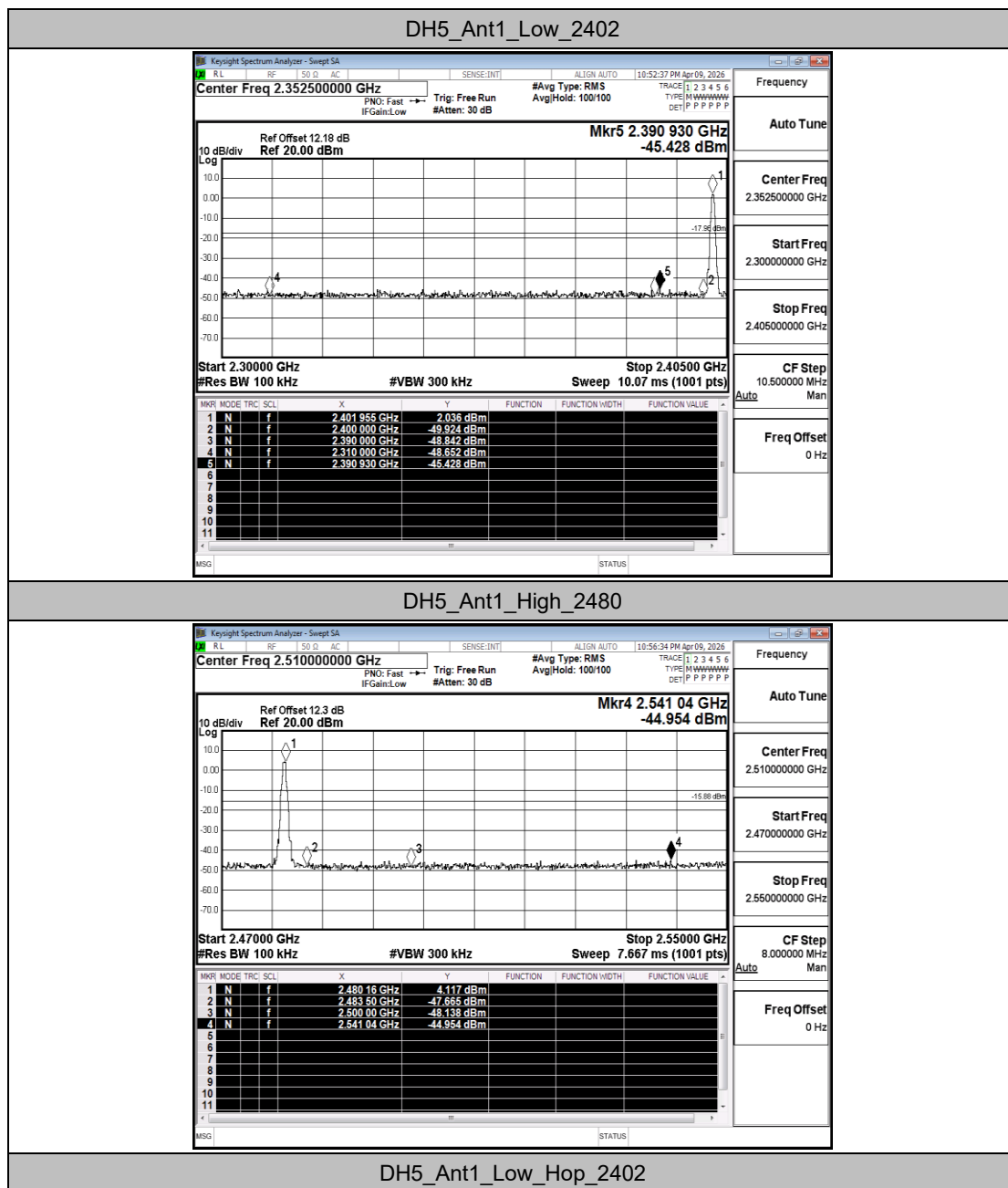


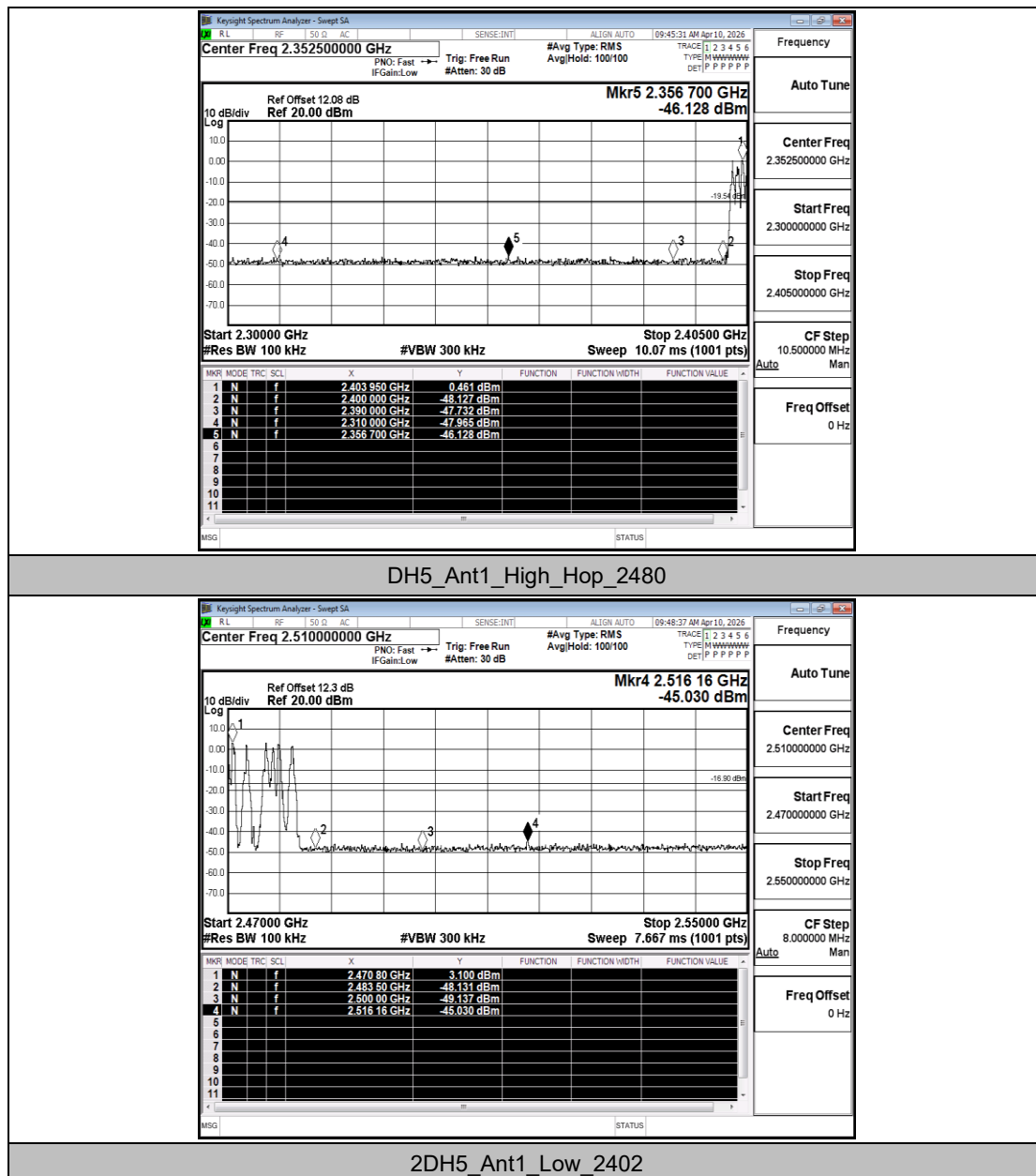
A.6 Band edge measurements

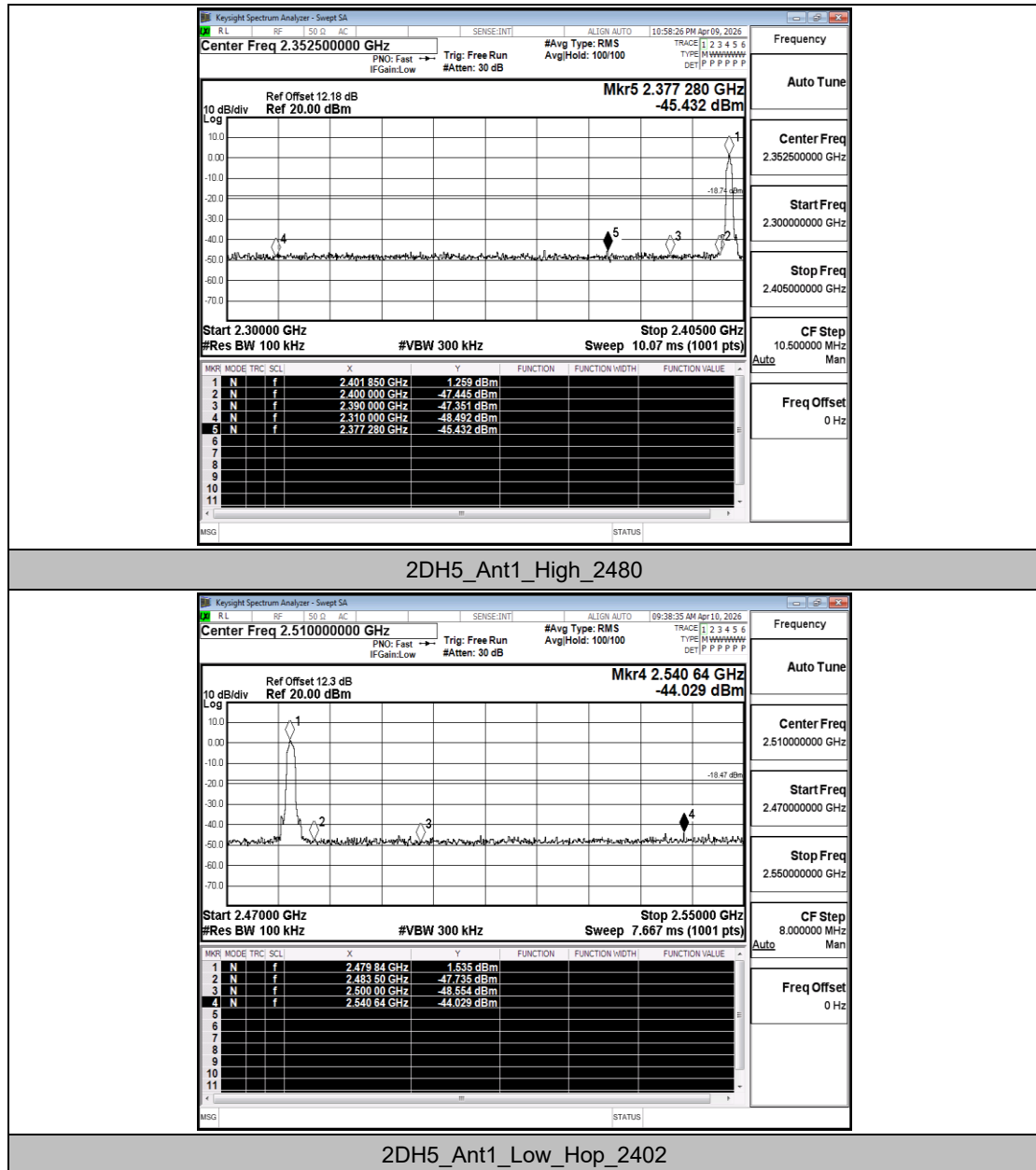
Test Result

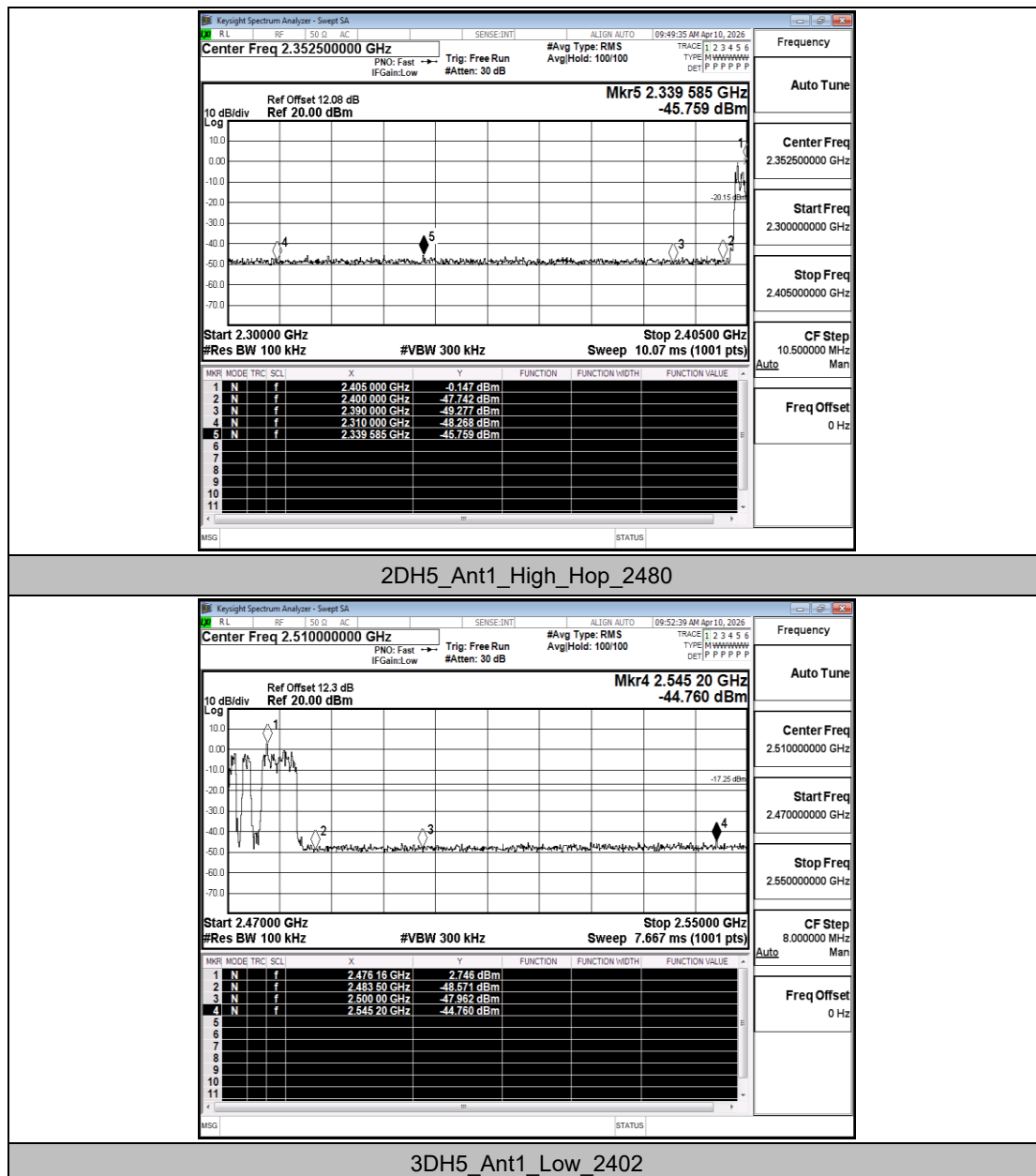
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.04	-45.43	≤-17.96	PASS
		High	2480	4.12	-44.95	≤-15.88	PASS
		Low	Hop_2402	0.46	-46.13	≤-19.54	PASS
		High	Hop_2480	3.10	-45.03	≤-16.9	PASS
2DH5	Ant1	Low	2402	1.26	-45.43	≤-18.74	PASS
		High	2480	1.54	-44.03	≤-18.47	PASS
		Low	Hop_2402	-0.15	-45.76	≤-20.15	PASS
		High	Hop_2480	2.75	-44.76	≤-17.25	PASS
3DH5	Ant1	Low	2402	-0.10	-42.66	≤-20.1	PASS
		High	2480	2.46	-45.68	≤-17.54	PASS
		Low	Hop_2402	-5.81	-45.41	≤-25.81	PASS
		High	Hop_2480	-1.09	-43.82	≤-21.09	PASS

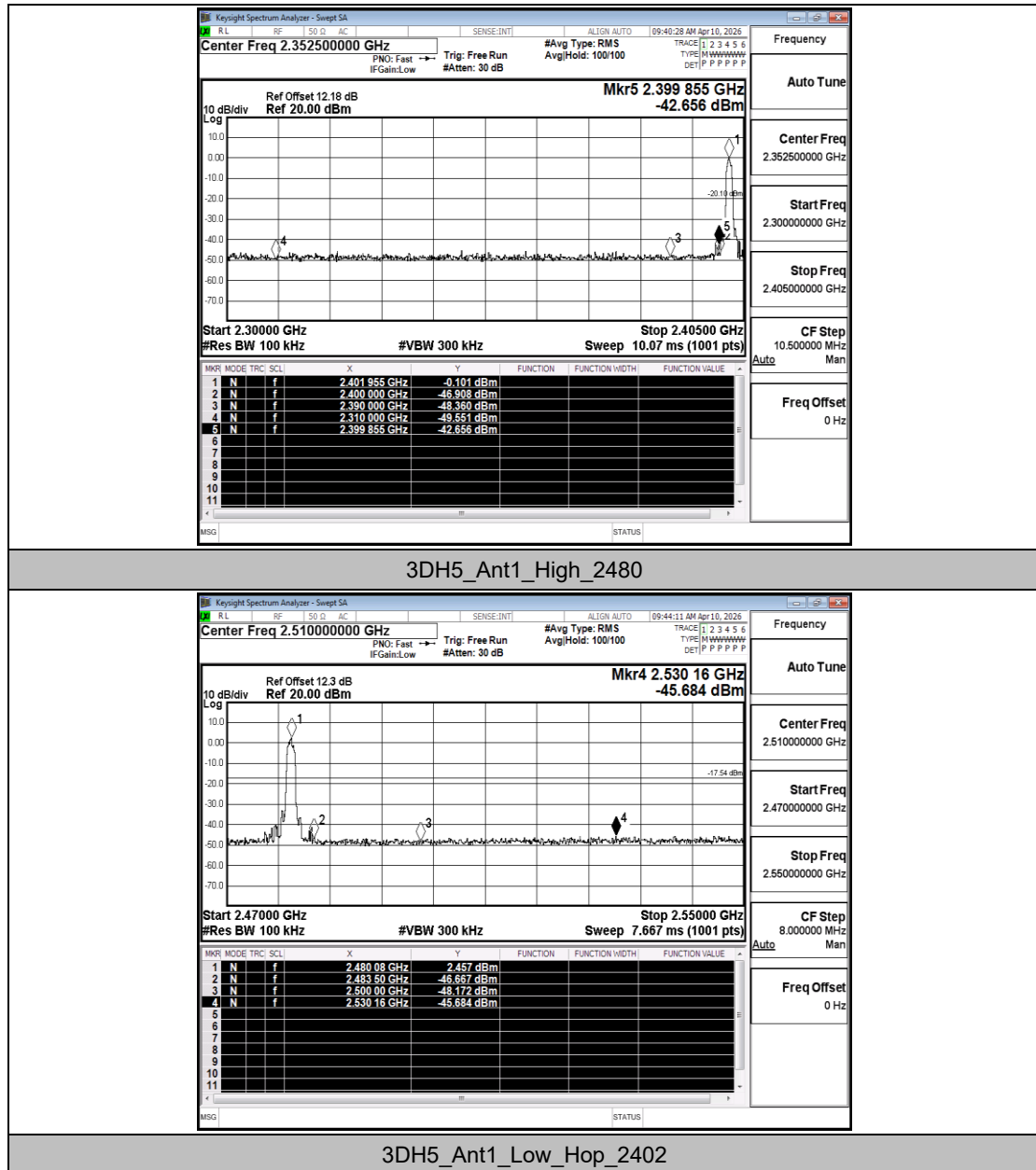
Test Graphs

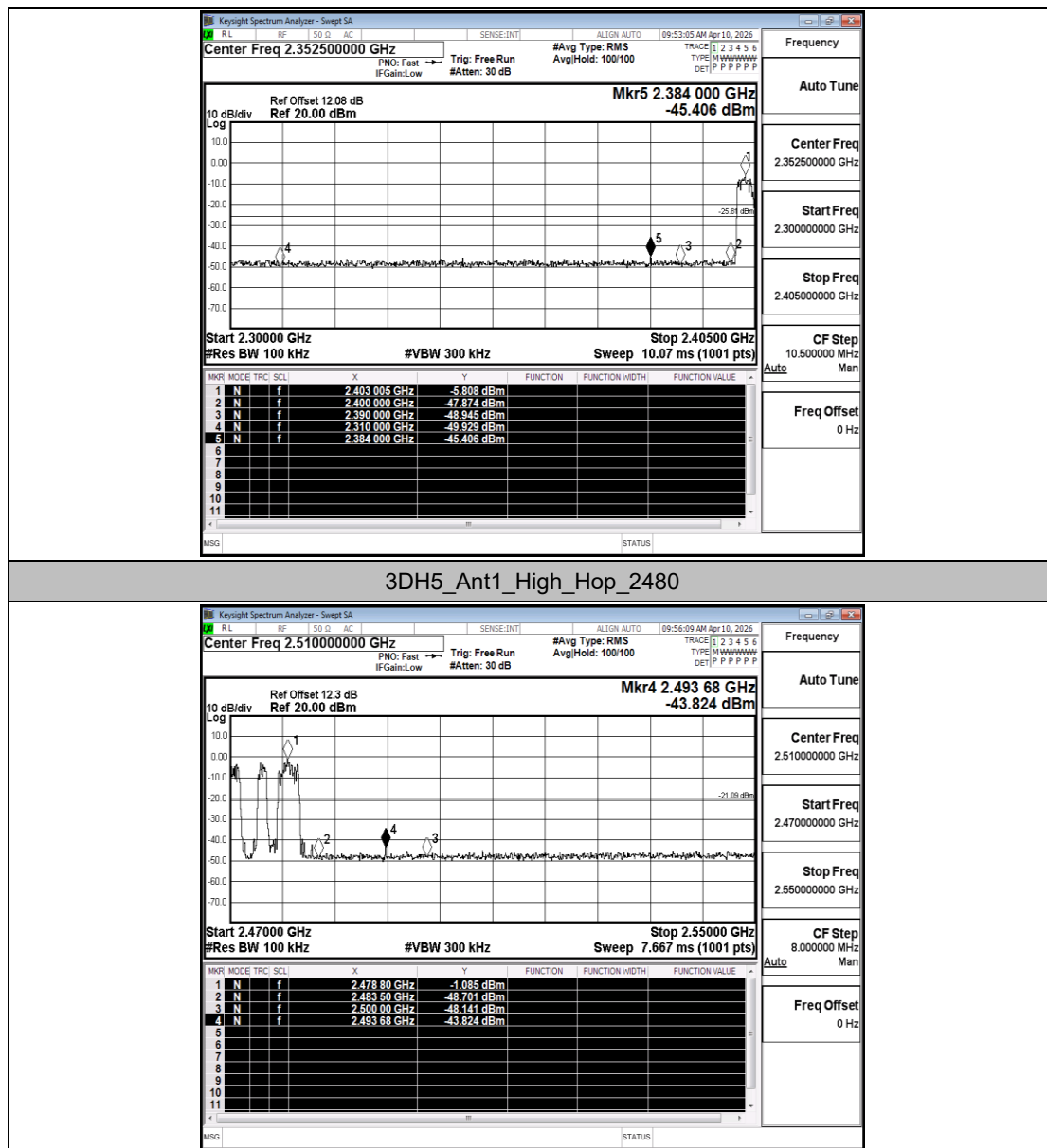










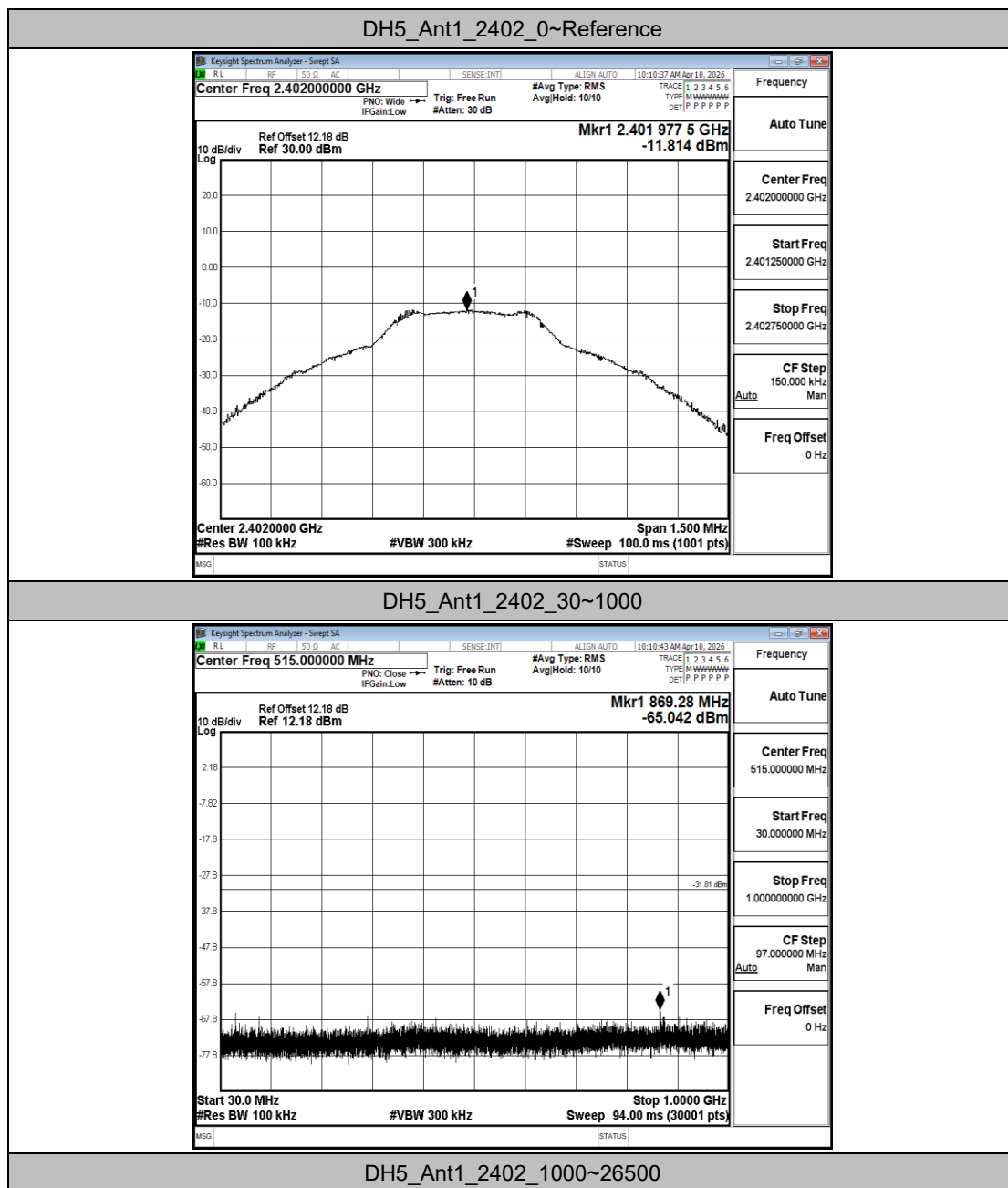


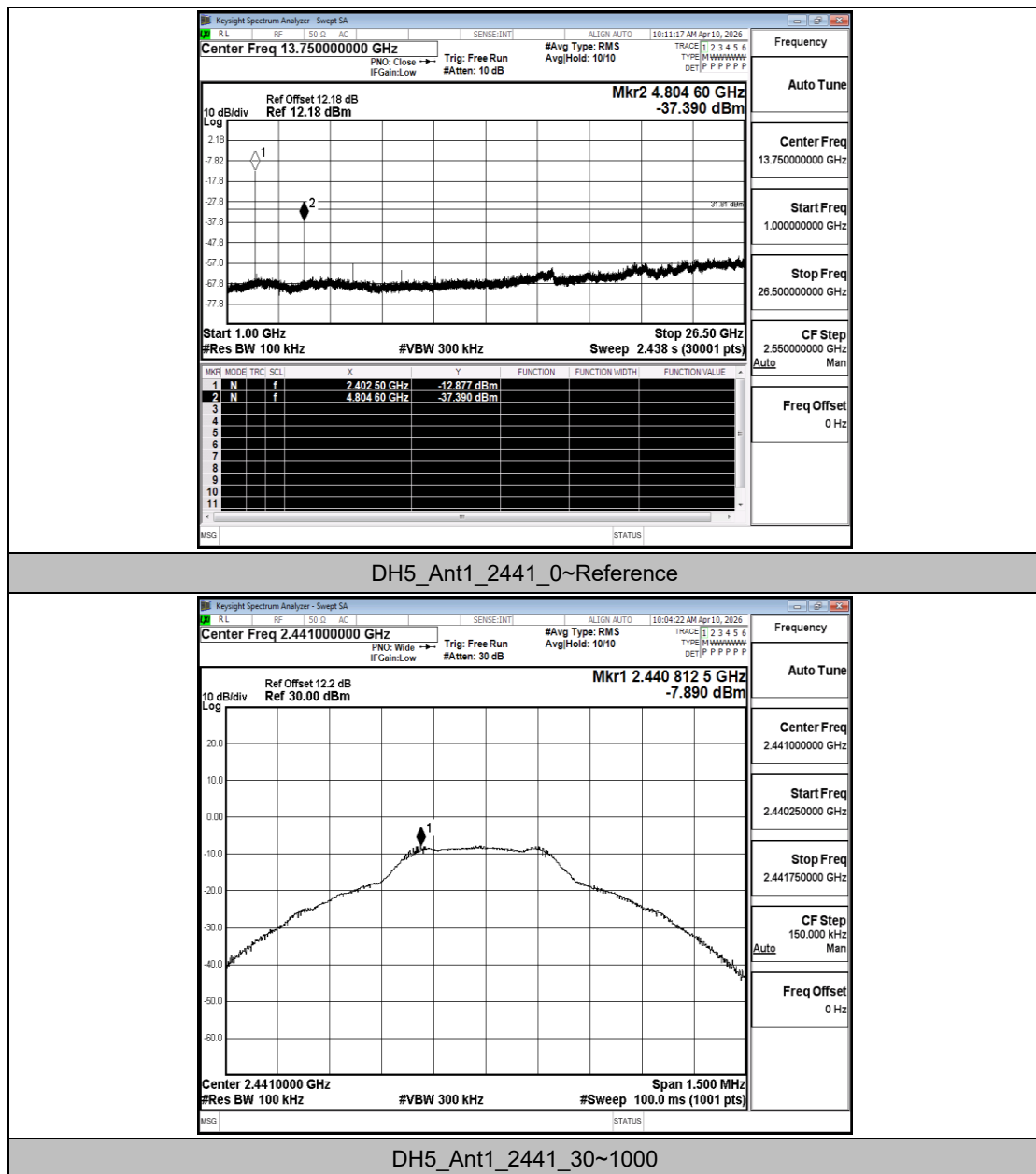
A.7 Conducted Spurious Emission

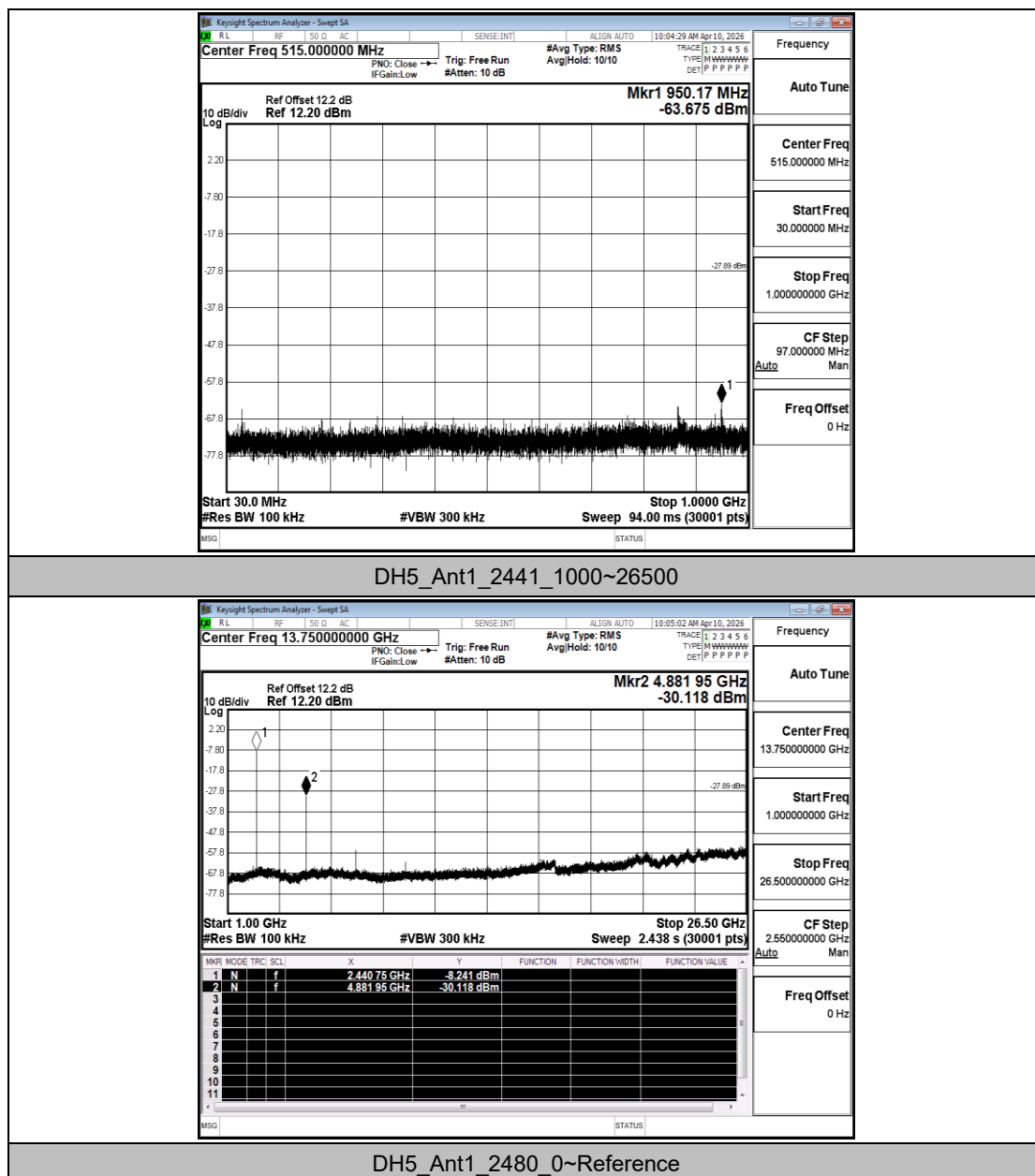
Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-11.81	-11.81	---	PASS
			30~1000	-11.81	-65.04	≤-31.81	PASS
			1000~26500	-11.81	-37.39	≤-31.81	PASS
		2441	Reference	-7.89	-7.89	---	PASS
			30~1000	-7.89	-63.68	≤-27.89	PASS
			1000~26500	-7.89	-30.12	≤-27.89	PASS
		2480	Reference	4.15	4.15	---	PASS
			30~1000	4.15	-62.4	≤-15.85	PASS
			1000~26500	4.15	-17.7	≤-15.85	PASS
2DH5	Ant1	2402	Reference	1.98	1.98	---	PASS
			30~1000	1.98	-61.14	≤-18.02	PASS
			1000~26500	1.98	-18.67	≤-18.02	PASS
		2441	Reference	-7.92	-7.92	---	PASS
			30~1000	-7.92	-65.3	≤-27.92	PASS
			1000~26500	-7.92	-36.37	≤-27.92	PASS
		2480	Reference	3.30	3.30	---	PASS
			30~1000	3.30	-64.14	≤-16.7	PASS
			1000~26500	3.30	-19.28	≤-16.7	PASS
3DH5	Ant1	2402	Reference	0.95	0.95	---	PASS
			30~1000	0.95	-63.54	≤-19.05	PASS
			1000~26500	0.95	-20.4	≤-19.05	PASS
		2441	Reference	1.91	1.91	---	PASS
			30~1000	1.91	-64.57	≤-18.09	PASS
			1000~26500	1.91	-20.84	≤-18.09	PASS
		2480	Reference	3.24	3.24	---	PASS
			30~1000	3.24	-64.4	≤-16.76	PASS
			1000~26500	3.24	-20.98	≤-16.76	PASS

Test Graphs







DH5_Ant1_2441_1000~26500

DH5_Ant1_2480_0~Reference

