

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Open Ear Clip-On Earbuds

Test Model: S1000

Environmental Conditions

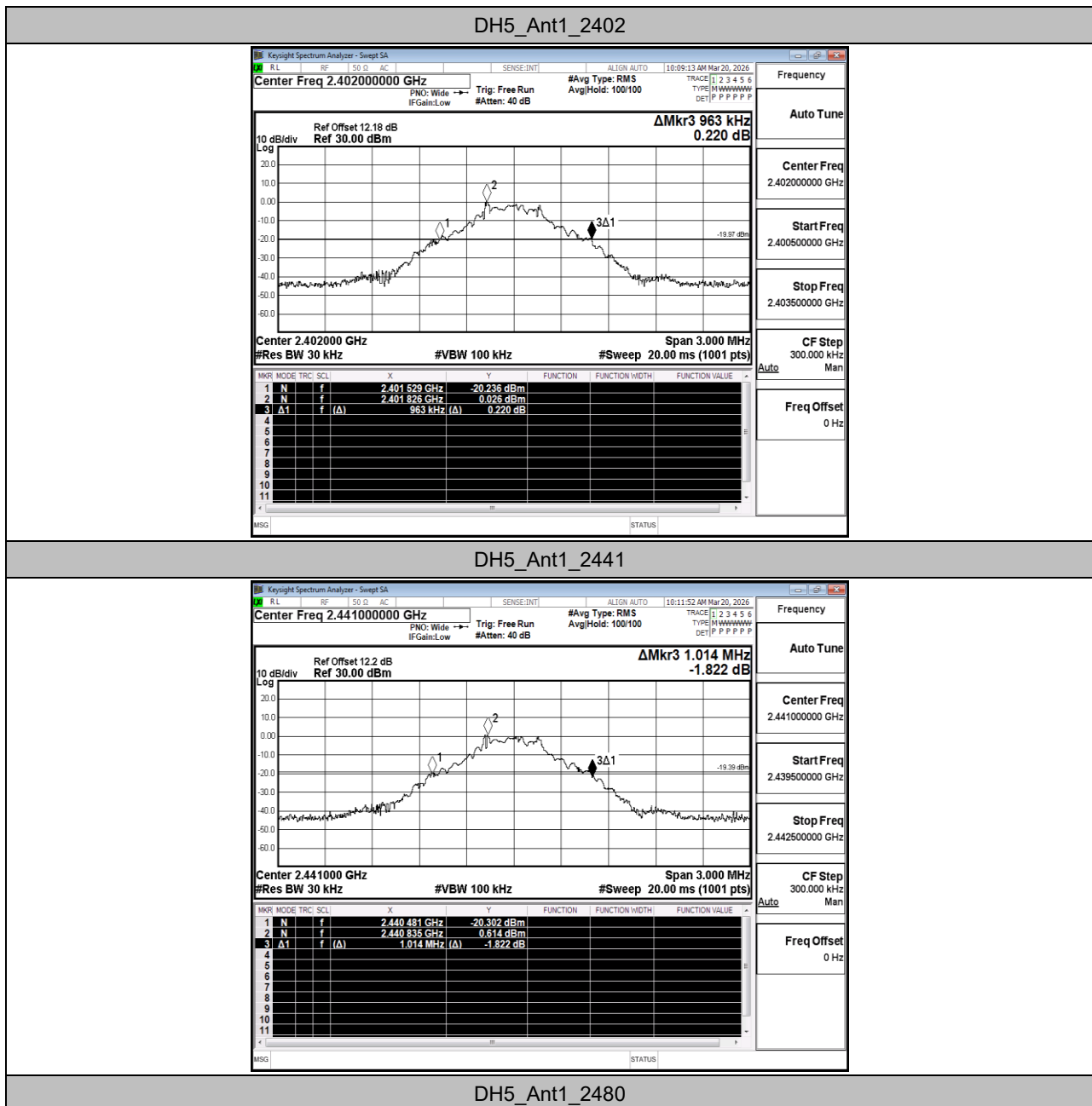
Temperature:	23.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao Xing Hai
Supervised by:	Fengliu Tang

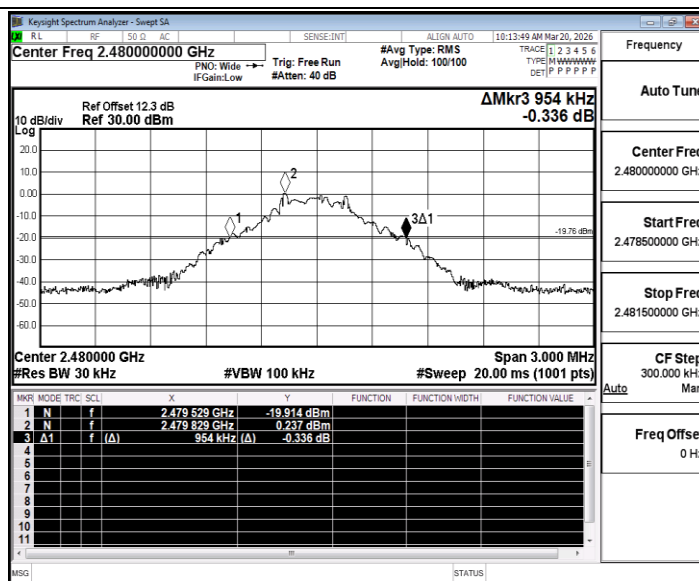
A.1 20dB Emission Bandwidth

Right ear:

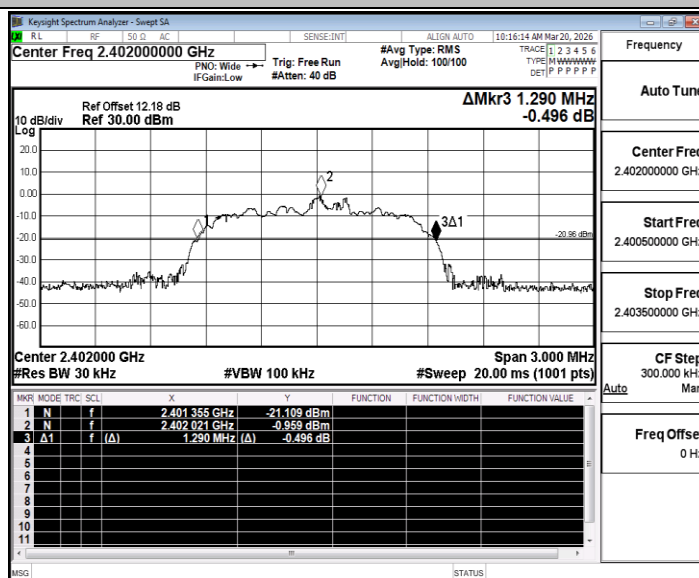
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.963	2401.529	2402.492	---	---
		2441	1.014	2440.481	2441.495	---	---
		2480	0.954	2479.529	2480.483	---	---
2DH5	Ant1	2402	1.290	2401.355	2402.645	---	---
		2441	1.293	2440.349	2441.642	---	---
		2480	1.302	2479.343	2480.645	---	---
3DH5	Ant1	2402	1.296	2401.346	2402.642	---	---
		2441	1.305	2440.337	2441.642	---	---
		2480	1.302	2479.340	2480.642	---	---

Test Graphs

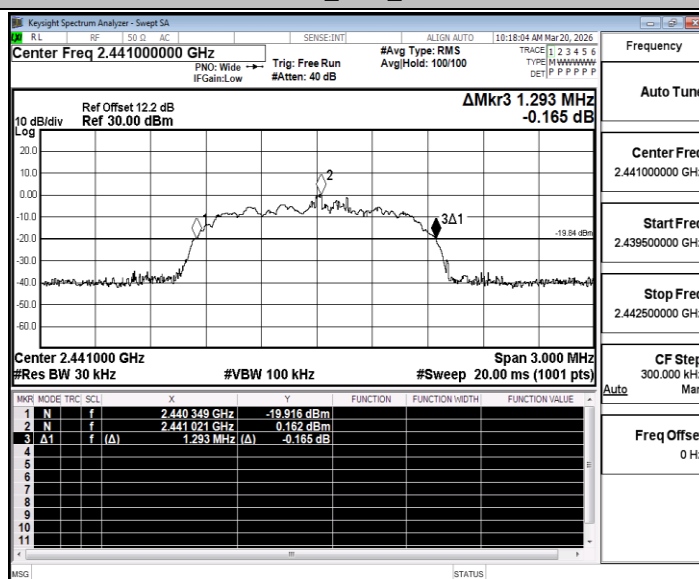




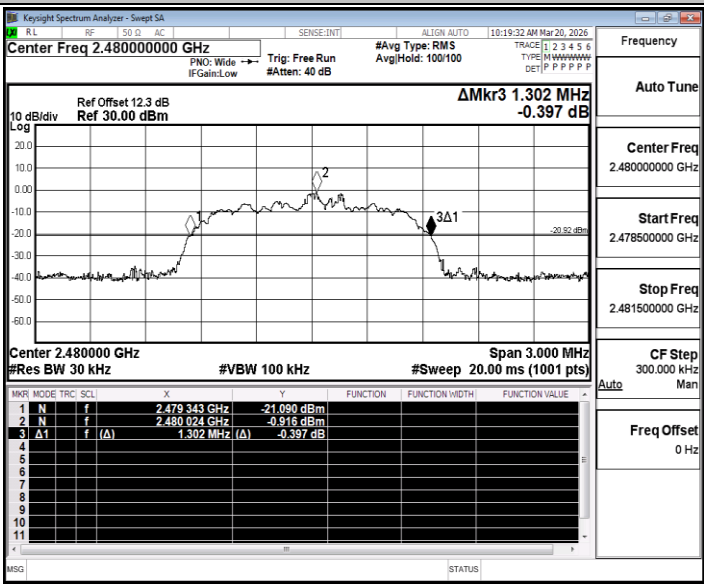
2DH5_Ant1_2402



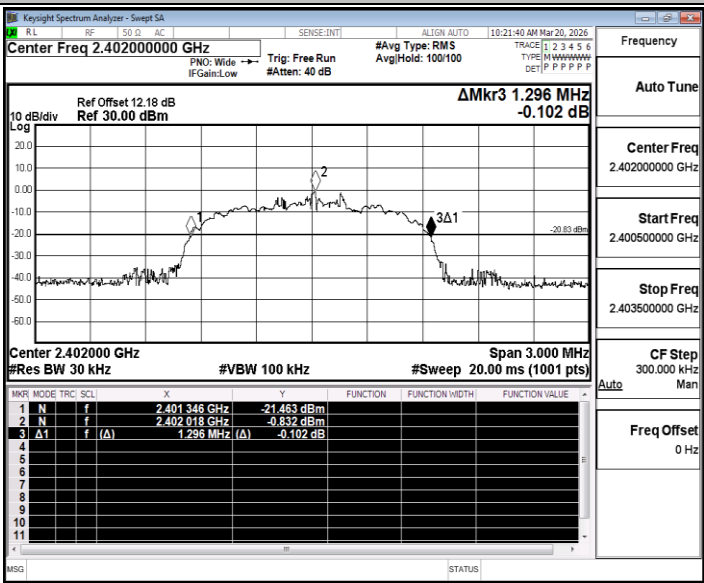
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

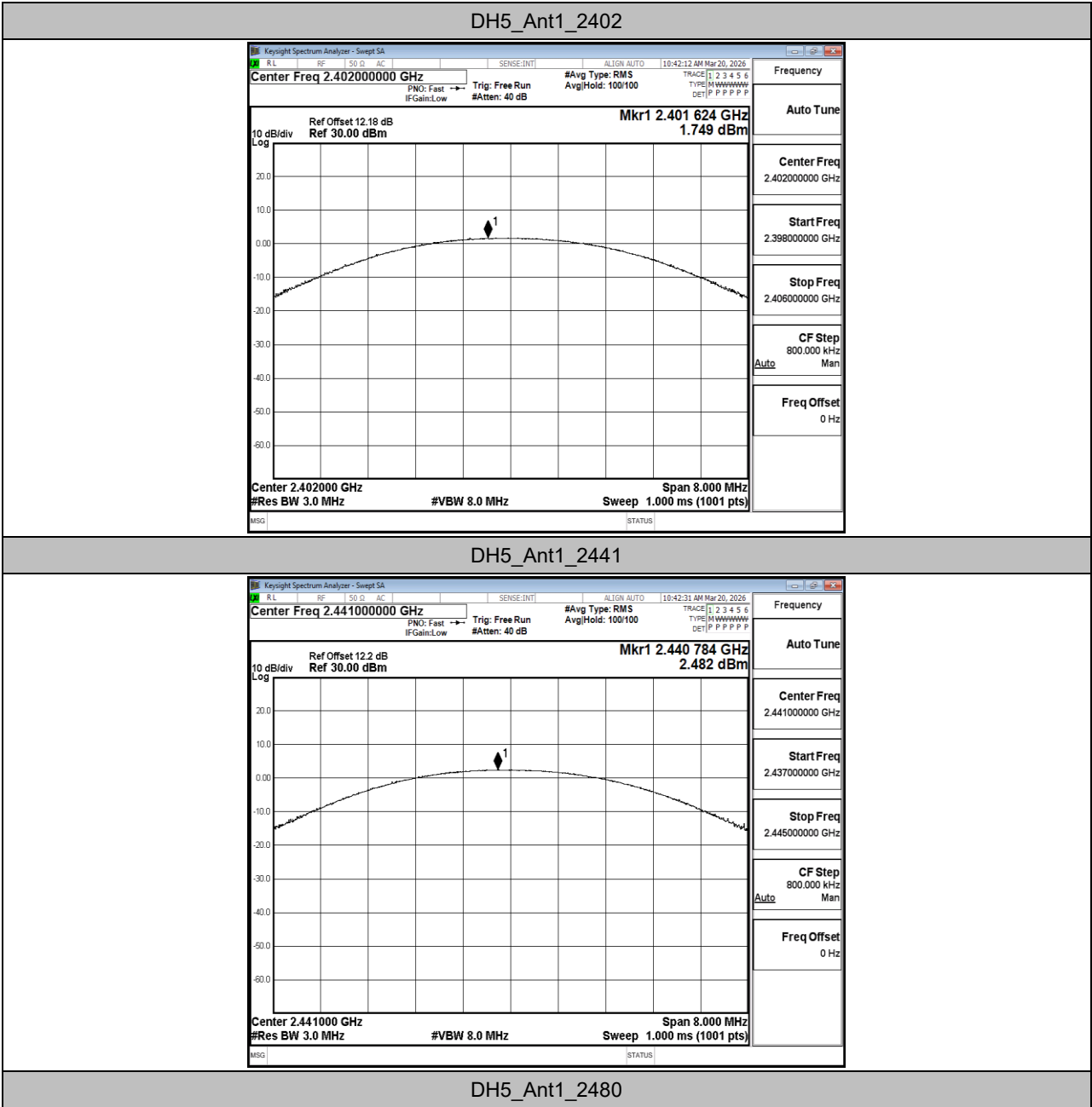


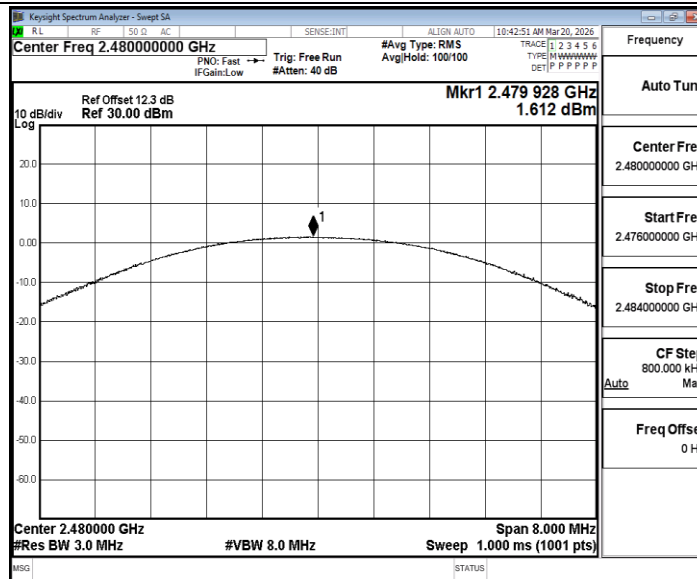
A.2 Maximum Peak conducted output power

Right ear:

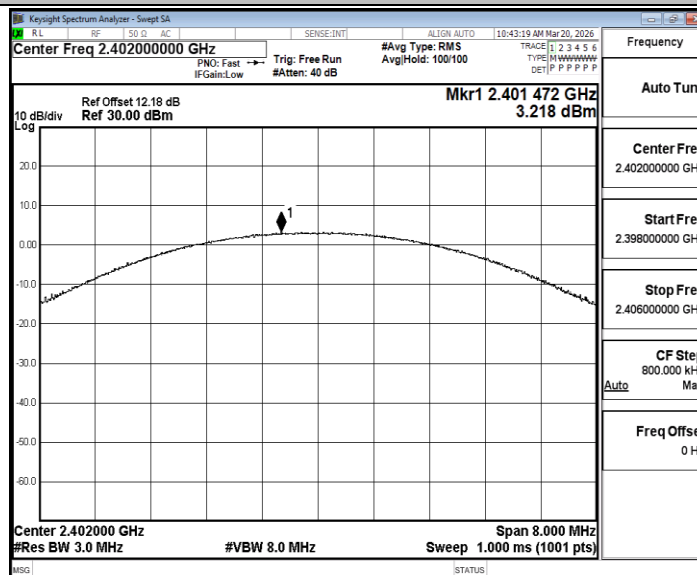
Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.75	≤30	PASS
		2441	2.48	≤30	PASS
		2480	1.61	≤30	PASS
2DH5	Ant1	2402	3.22	≤30	PASS
		2441	3.75	≤30	PASS
		2480	2.48	≤30	PASS
3DH5	Ant1	2402	3.59	≤30	PASS
		2441	4.05	≤30	PASS
		2480	2.99	≤30	PASS

Test Graphs

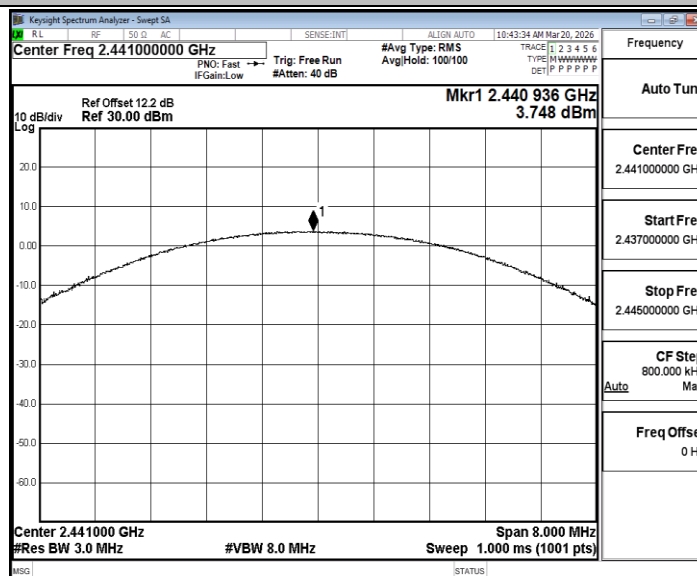




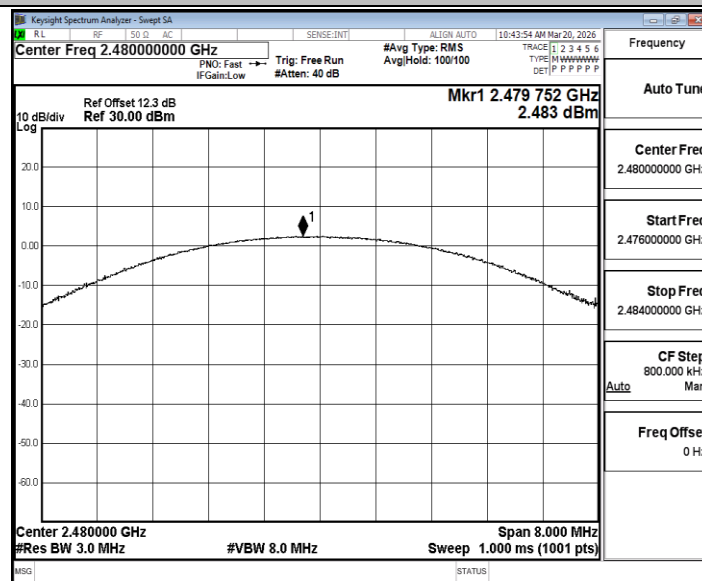
2DH5_Ant1_2402



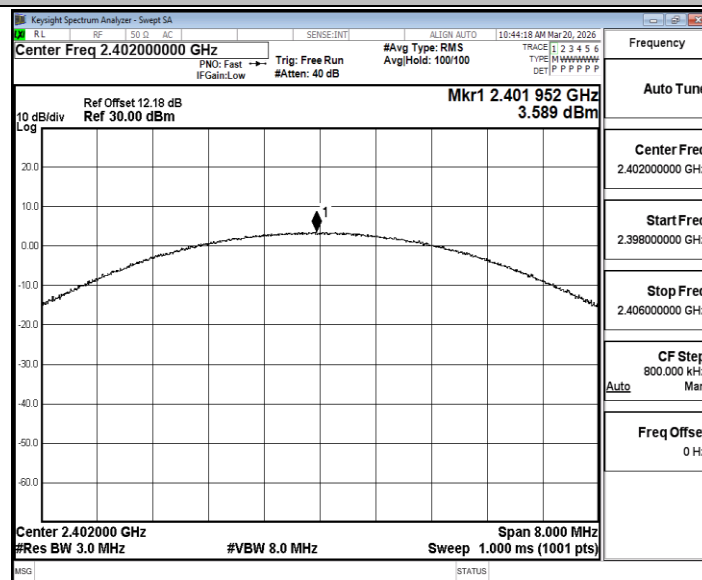
2DH5_Ant1_2441



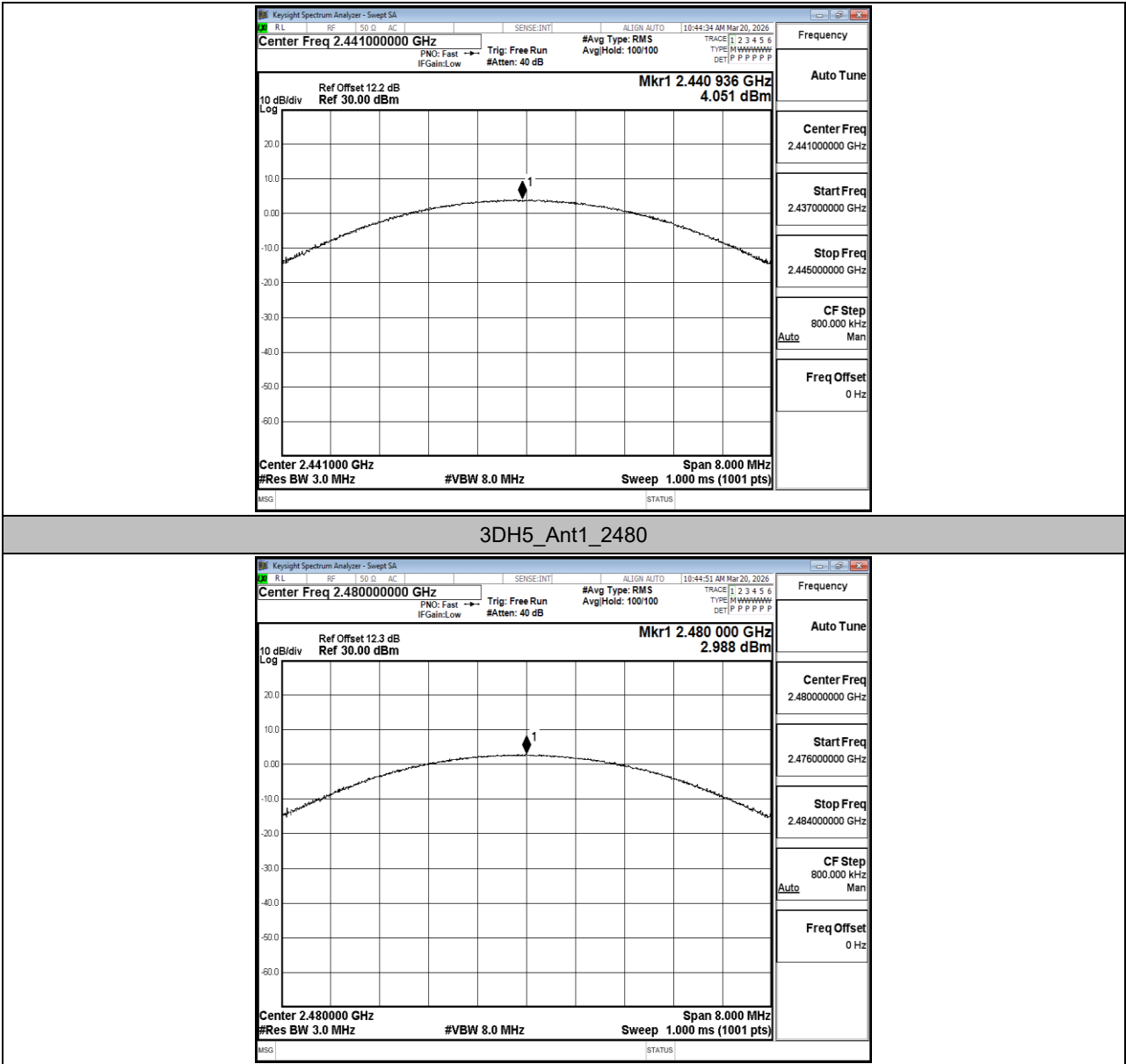
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

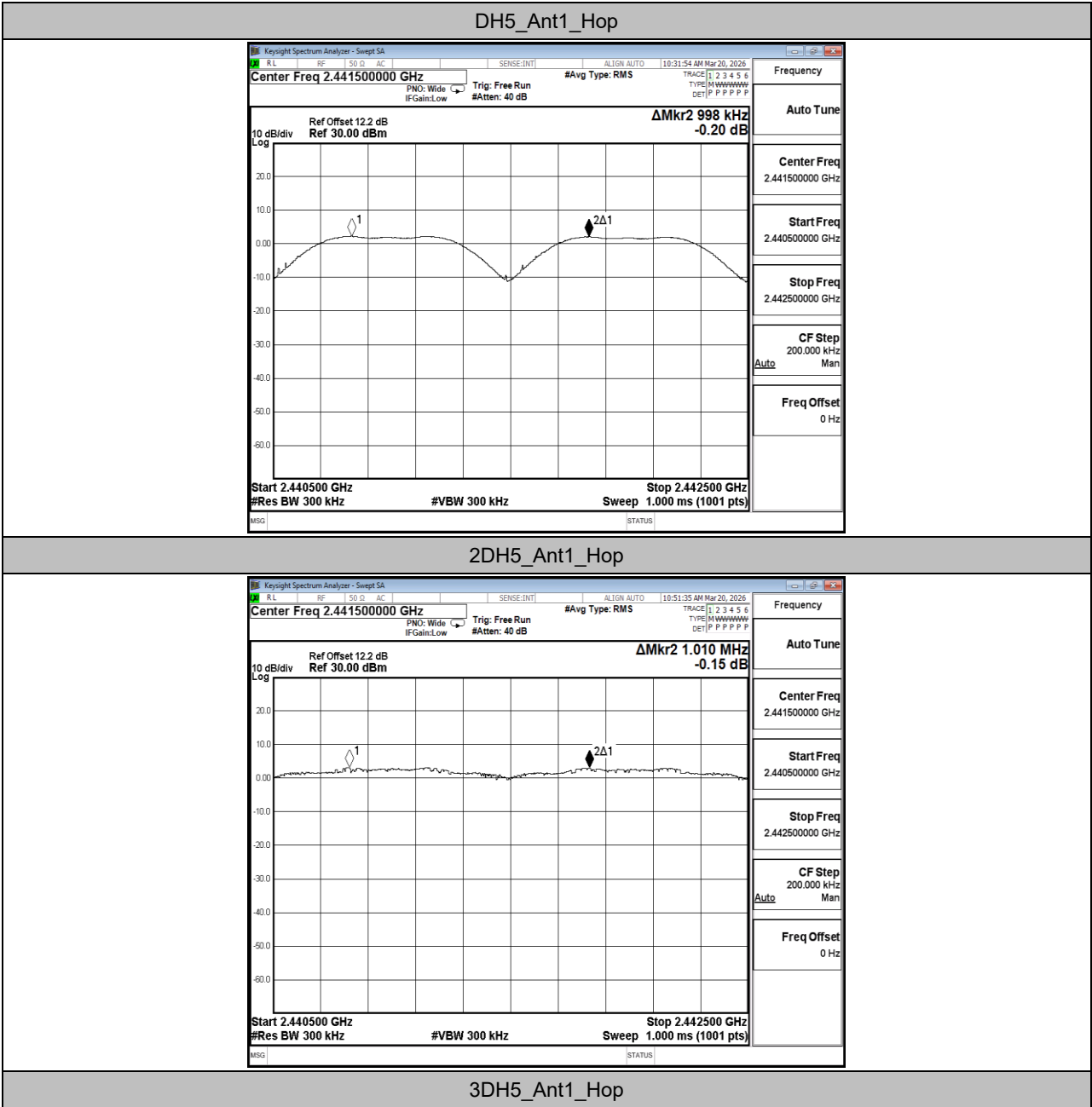


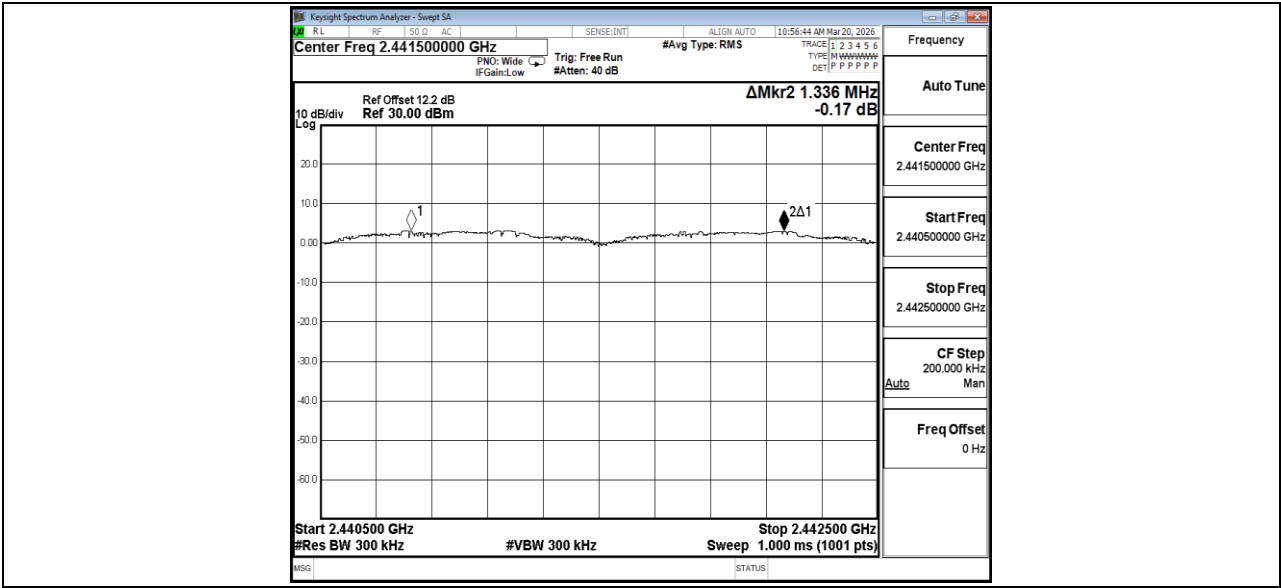
A.3 Carrier frequency separation

Right ear:

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.998	≥ 0.676	PASS
2DH5	Ant1	Hop	1.01	≥ 0.868	PASS
3DH5	Ant1	Hop	1.336	≥ 0.870	PASS

Test Graphs



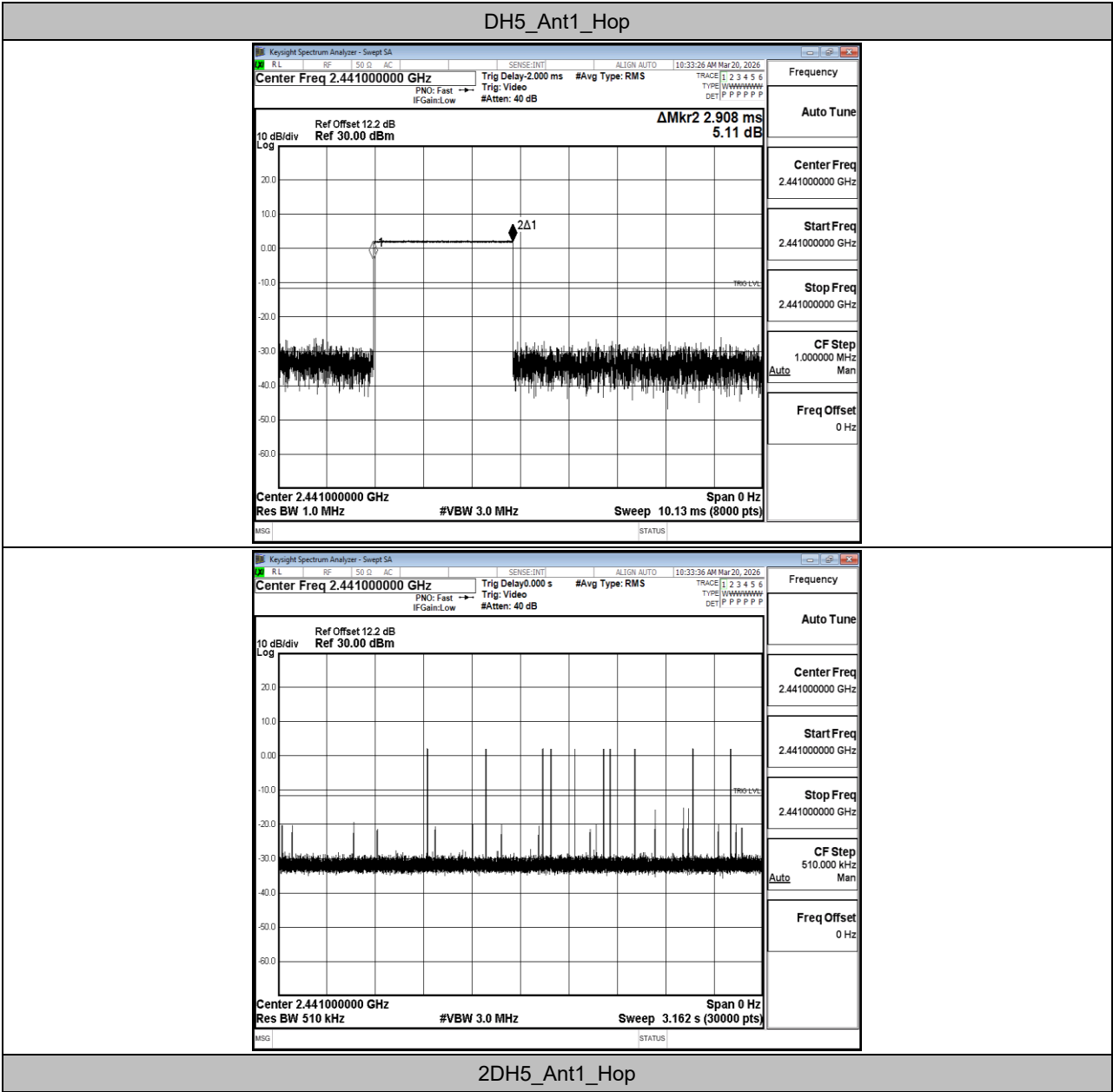


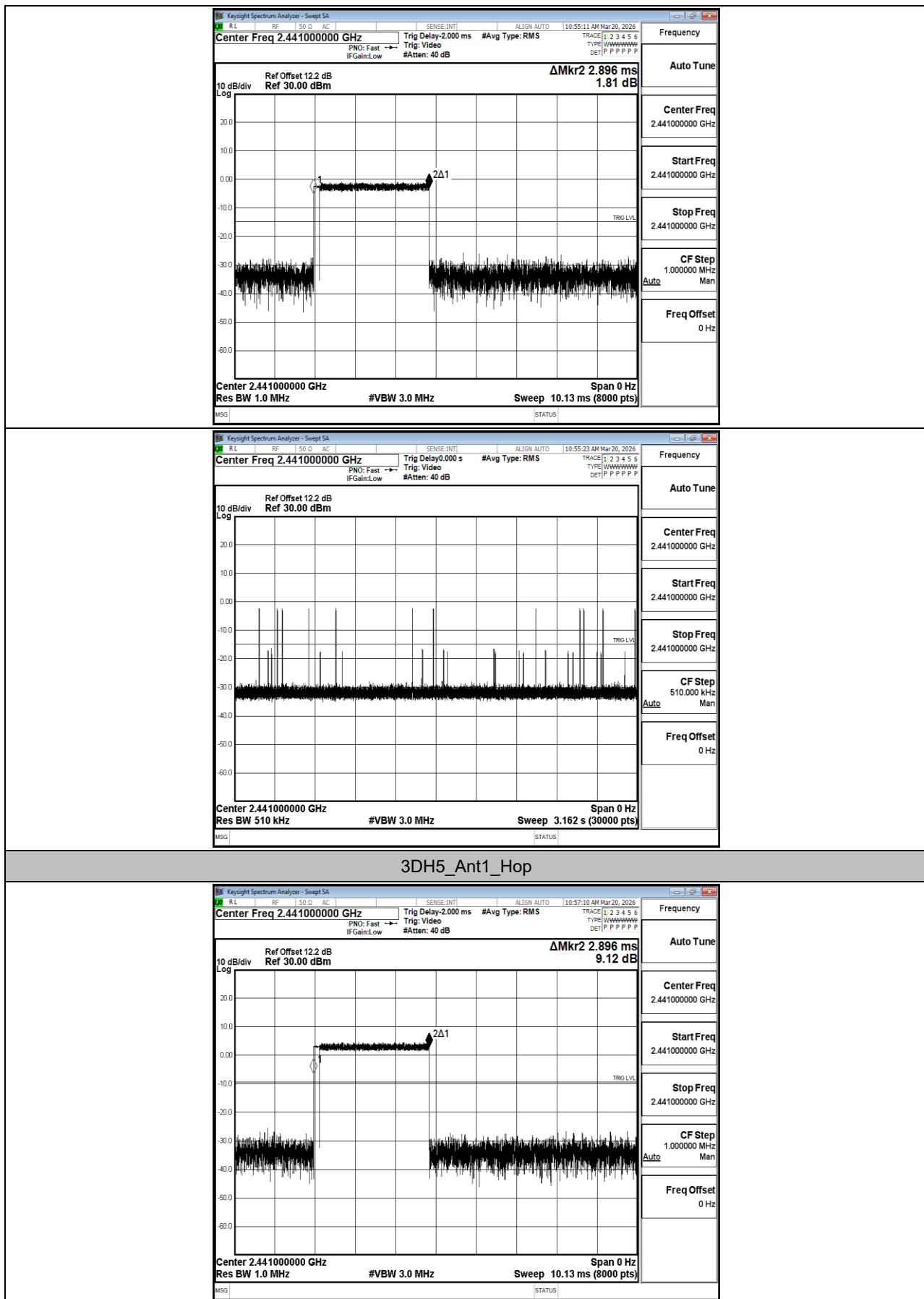
A.4 Time of occupancy

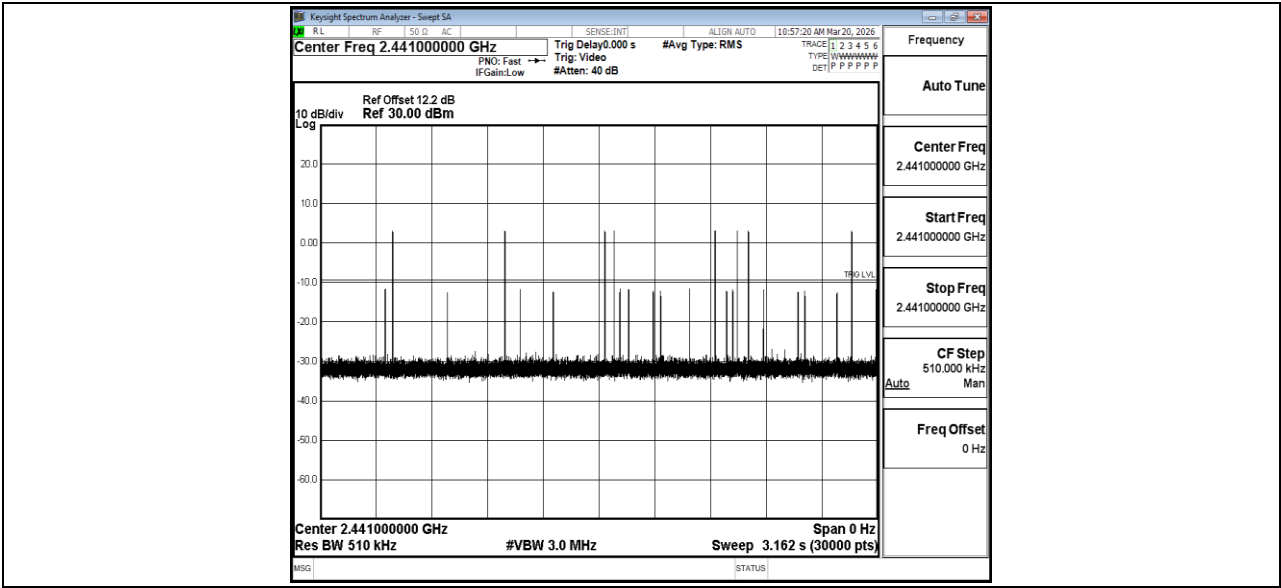
Right ear:

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	2.896	130	0.376	≤0.4	PASS
3DH5	Ant1	Hop	2.896	90	0.261	≤0.4	PASS

Test Graphs





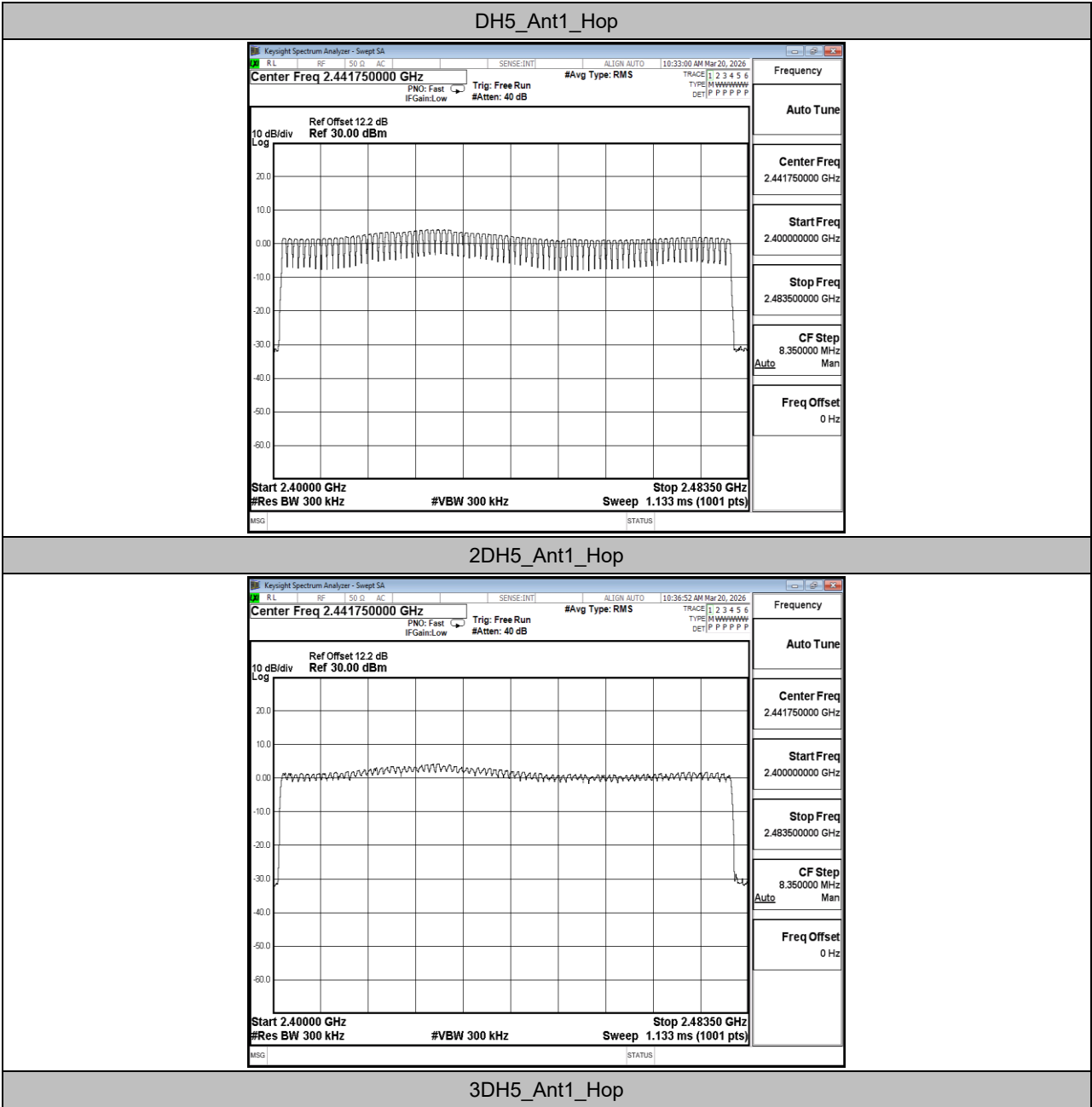


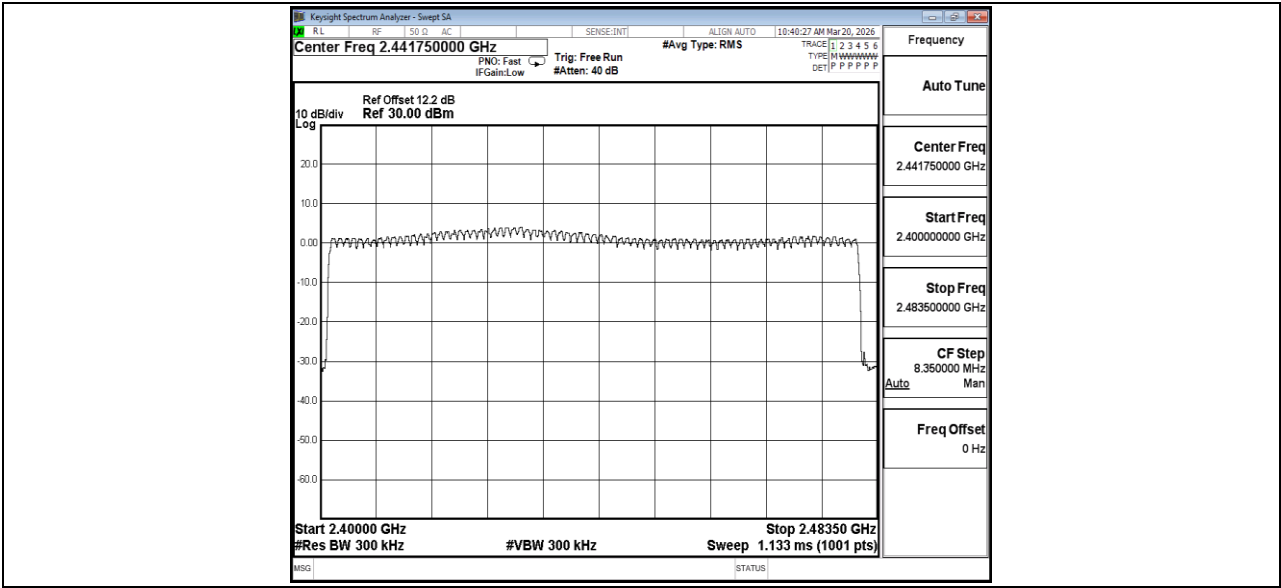
A.5 Number of hopping channels

Right ear:

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



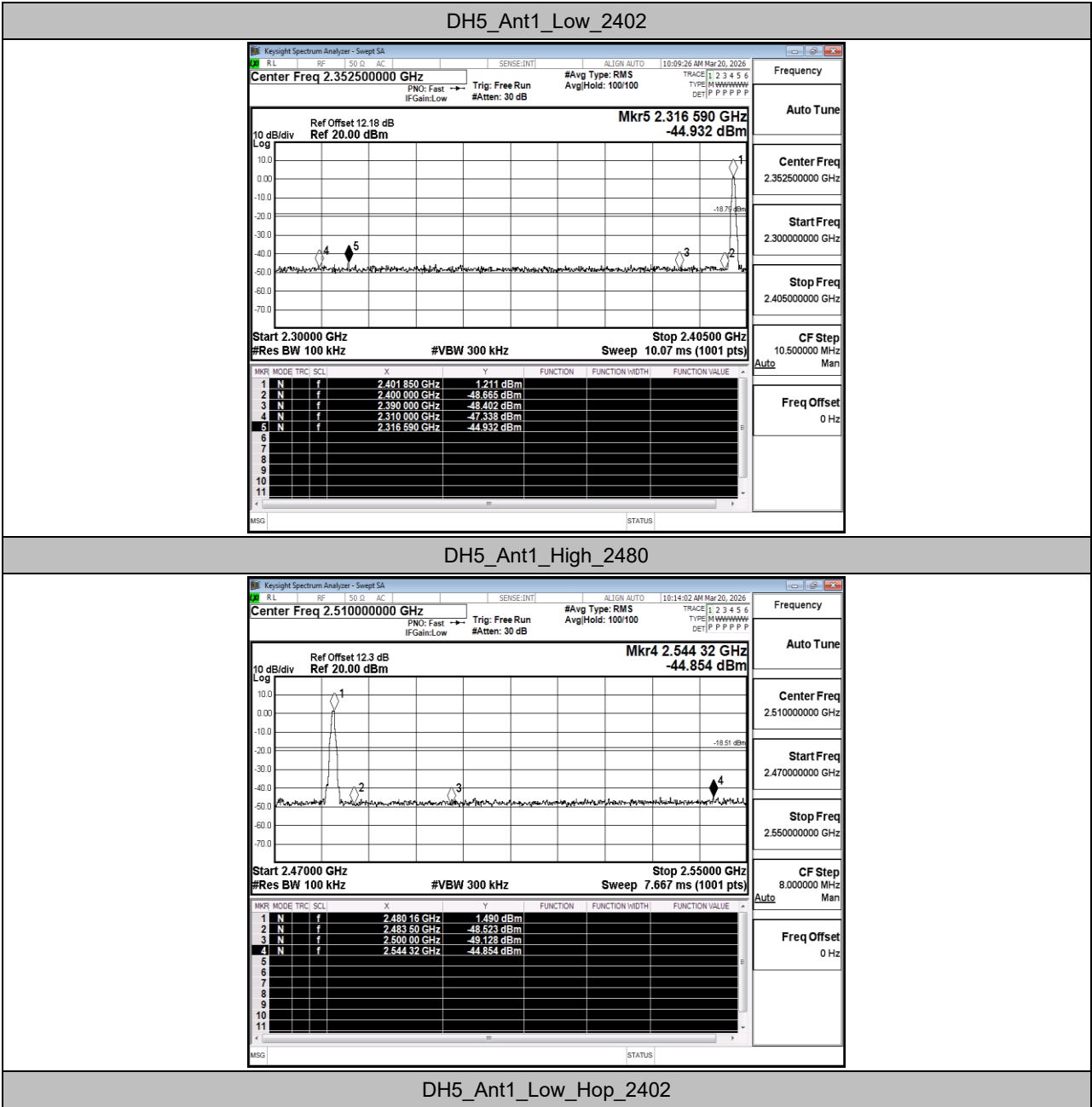


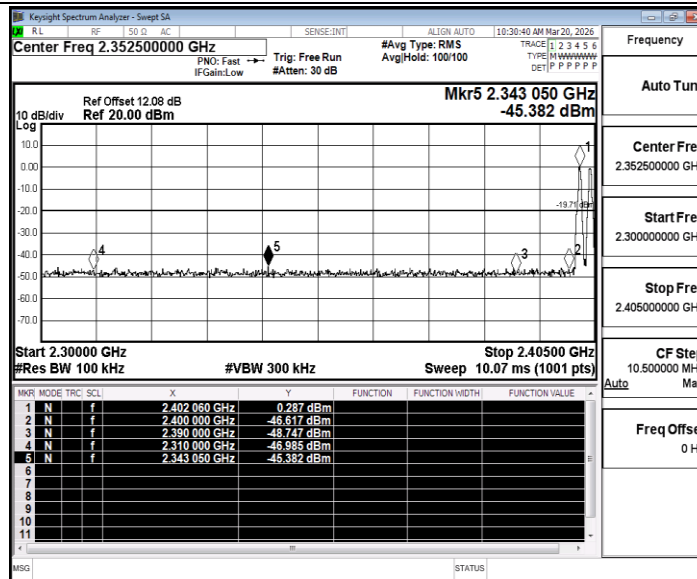
A.6 Band edge measurements

Right ear:

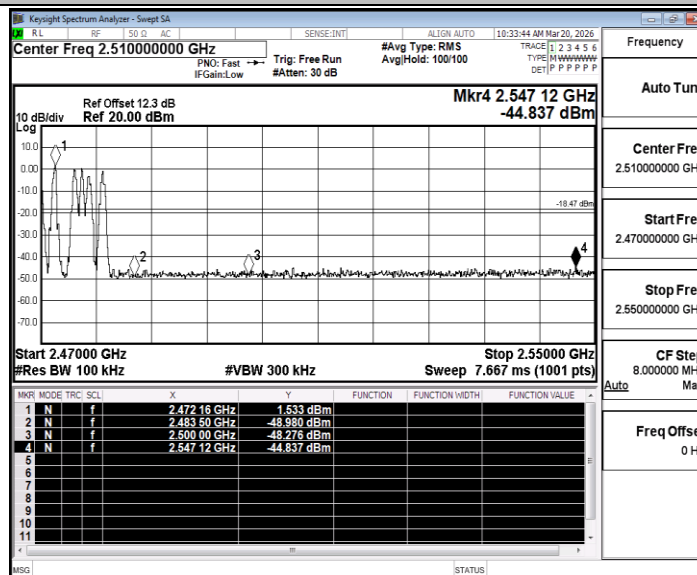
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.21	-44.93	≤-18.79	PASS
		High	2480	1.49	-44.85	≤-18.51	PASS
		Low	Hop_2402	0.29	-45.38	≤-19.71	PASS
		High	Hop_2480	1.53	-44.84	≤-18.47	PASS
2DH5	Ant1	Low	2402	1.10	-45.5	≤-18.91	PASS
		High	2480	0.82	-44.16	≤-19.18	PASS
		Low	Hop_2402	0.96	-45.71	≤-19.04	PASS
		High	Hop_2480	-2.34	-44.74	≤-22.34	PASS
3DH5	Ant1	Low	2402	1.20	-45.5	≤-18.8	PASS
		High	2480	0.66	-44.48	≤-19.34	PASS
		Low	Hop_2402	-2.11	-45.62	≤-22.11	PASS
		High	Hop_2480	0.07	-45.22	≤-19.93	PASS

Test Graphs

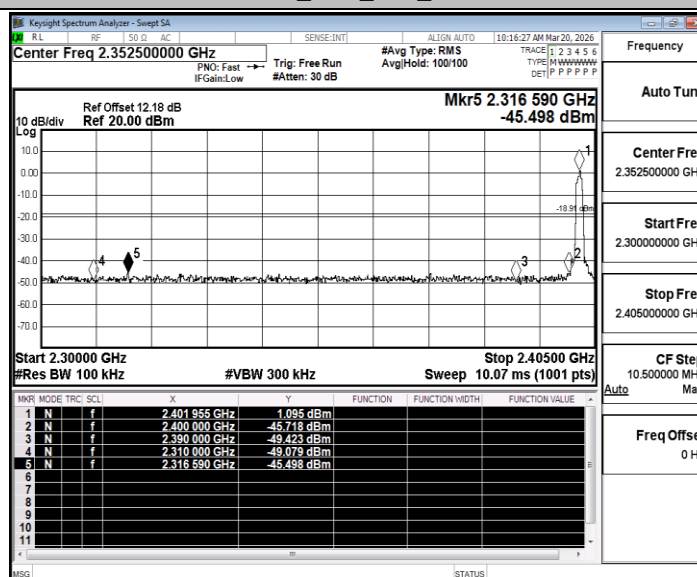




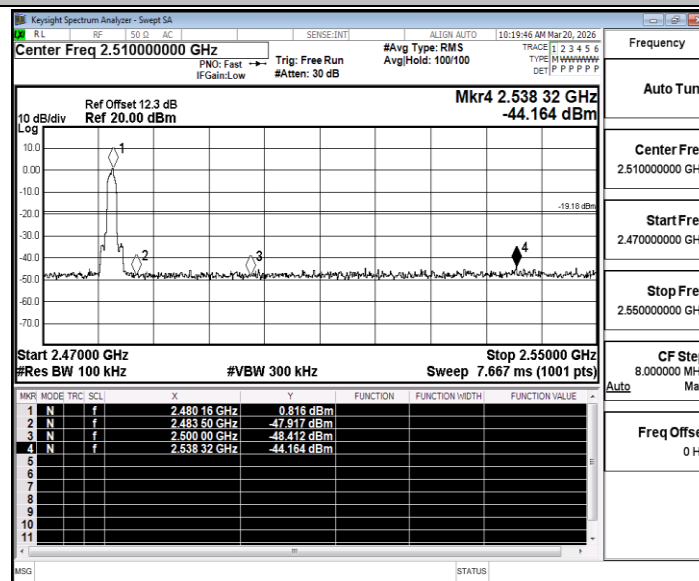
DH5_Ant1_High_Hop_2480



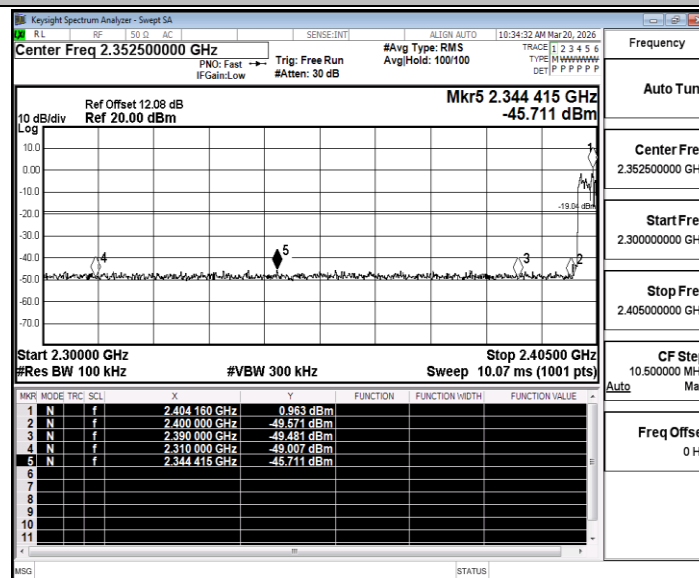
2DH5_Ant1_Low_2402



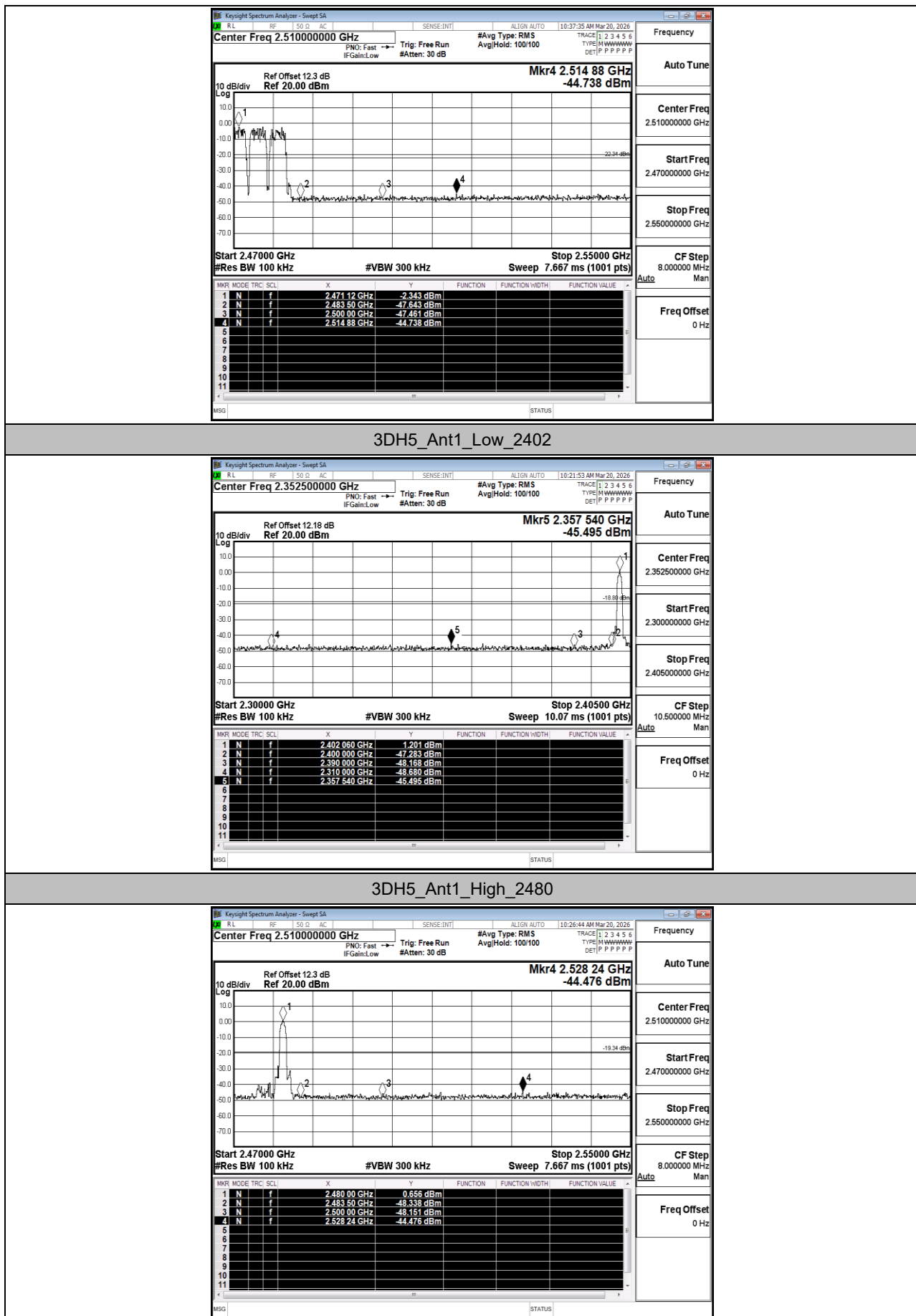
2DH5_Ant1_High_2480



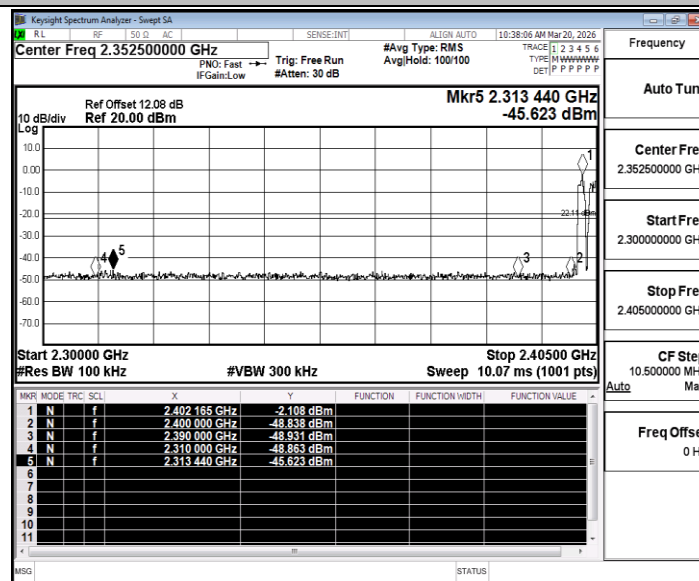
2DH5_Ant1_Low_Hop_2402



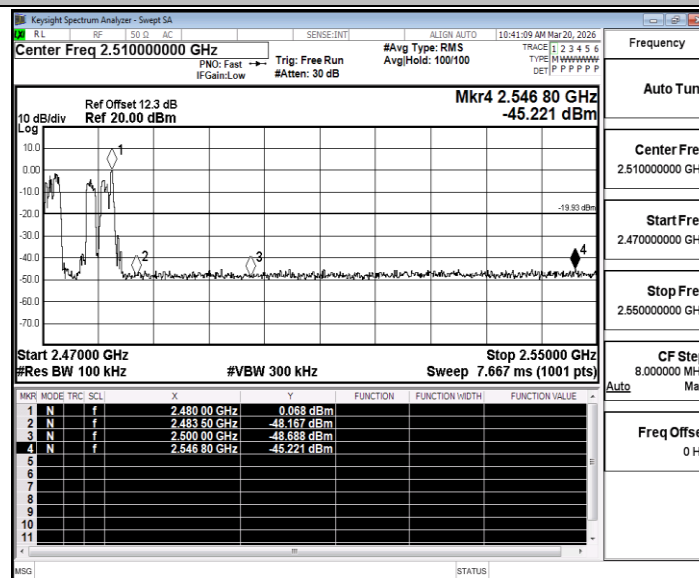
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

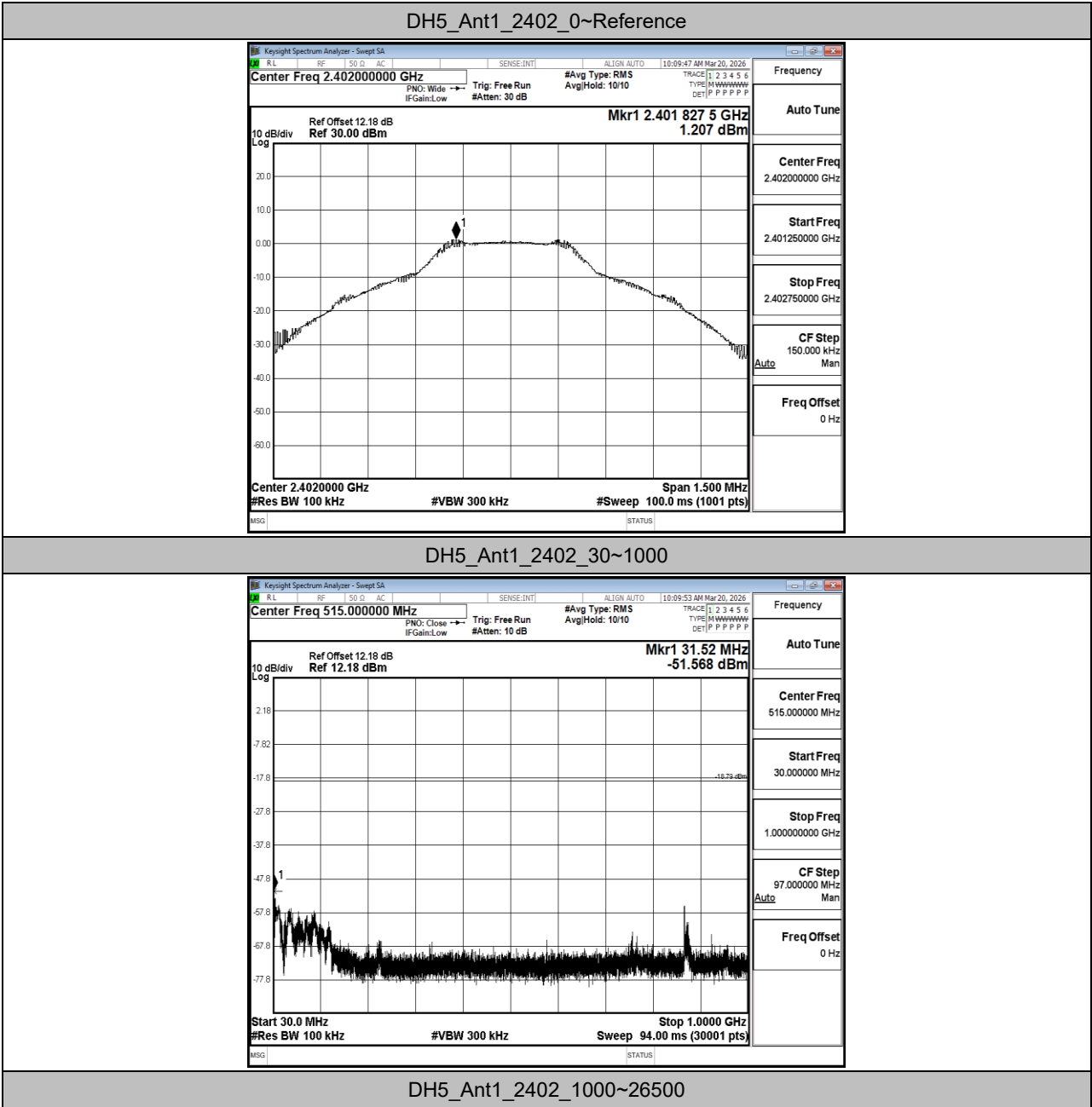


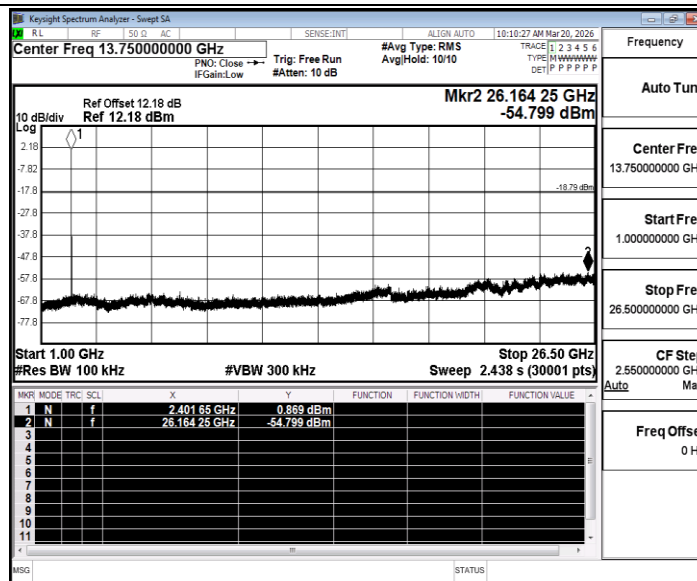
A.7 Conducted Spurious Emission

Right ear:

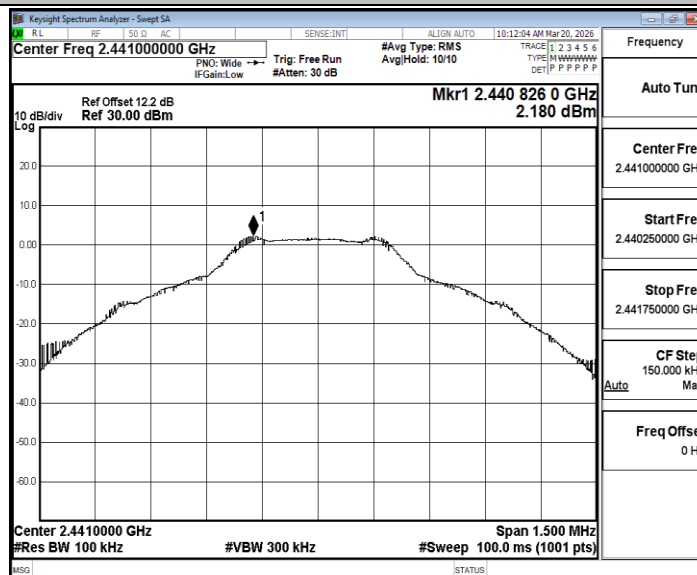
TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.21	1.21	---	PASS
			30~1000	1.21	-51.57	≤-18.79	PASS
			1000~26500	1.21	-54.8	≤-18.79	PASS
		2441	Reference	2.18	2.18	---	PASS
			30~1000	2.18	-55.04	≤-17.82	PASS
			1000~26500	2.18	-54.26	≤-17.82	PASS
		2480	Reference	1.48	1.48	---	PASS
			30~1000	1.48	-53.59	≤-18.52	PASS
			1000~26500	1.48	-54.56	≤-18.52	PASS
2DH5	Ant1	2402	Reference	1.10	1.10	---	PASS
			30~1000	1.10	-45.43	≤-18.9	PASS
			1000~26500	1.10	-54.24	≤-18.9	PASS
		2441	Reference	2.06	2.06	---	PASS
			30~1000	2.06	-53.23	≤-17.94	PASS
			1000~26500	2.06	-54	≤-17.94	PASS
		2480	Reference	1.31	1.31	---	PASS
			30~1000	1.31	-52.71	≤-18.69	PASS
			1000~26500	1.31	-51.78	≤-18.69	PASS
3DH5	Ant1	2402	Reference	1.32	1.32	---	PASS
			30~1000	1.32	-45.94	≤-18.68	PASS
			1000~26500	1.32	-54.53	≤-18.68	PASS
		2441	Reference	2.24	2.24	---	PASS
			30~1000	2.24	-53.01	≤-17.76	PASS
			1000~26500	2.24	-51.46	≤-17.76	PASS
		2480	Reference	1.57	1.57	---	PASS
			30~1000	1.57	-53.78	≤-18.43	PASS
			1000~26500	1.57	-49.96	≤-18.43	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

