

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Portable Outdoor Speaker

Test Model: O3030

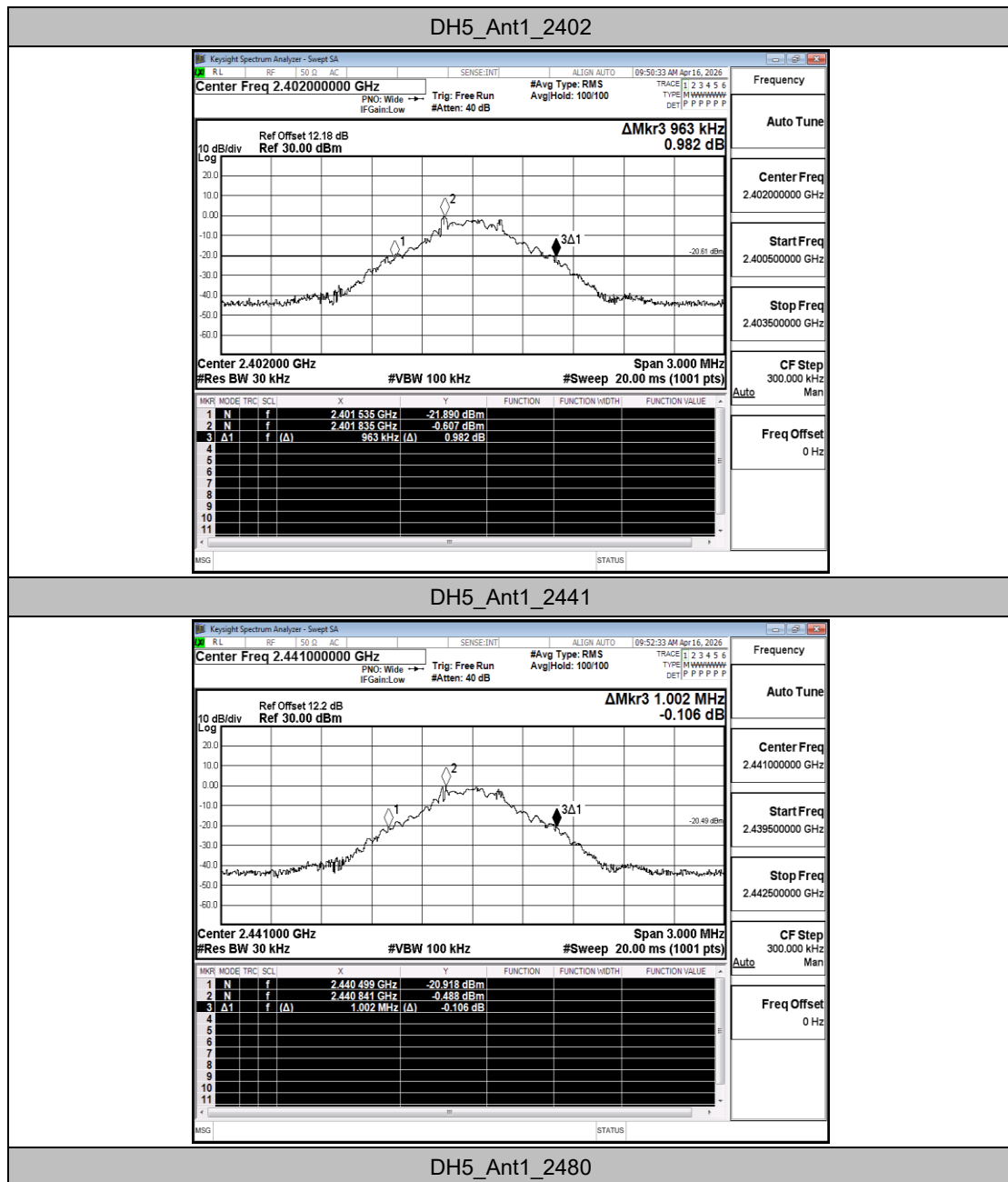
Environmental Conditions	
Temperature:	24.1°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

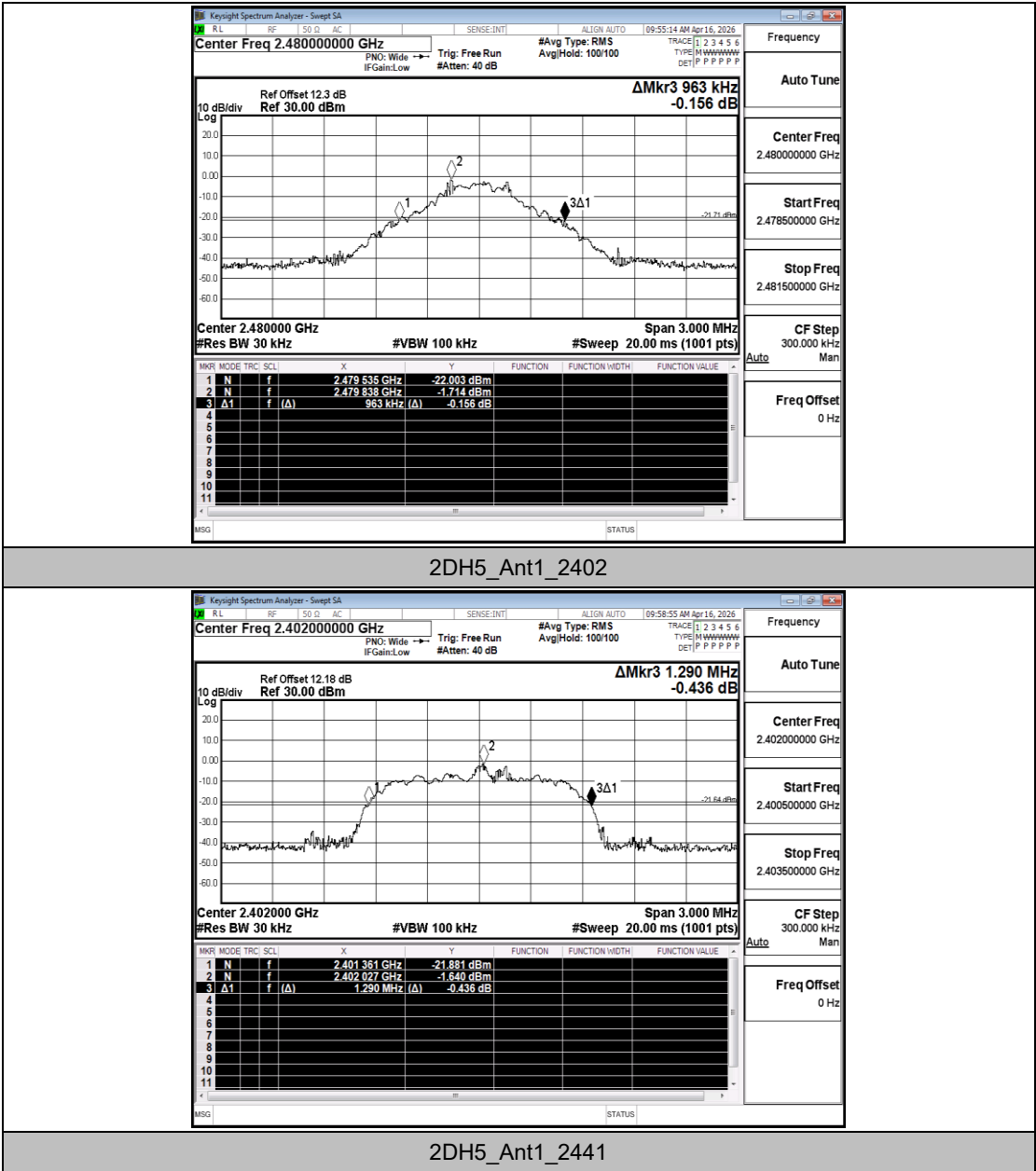
A.1 20dB Emission Bandwidth

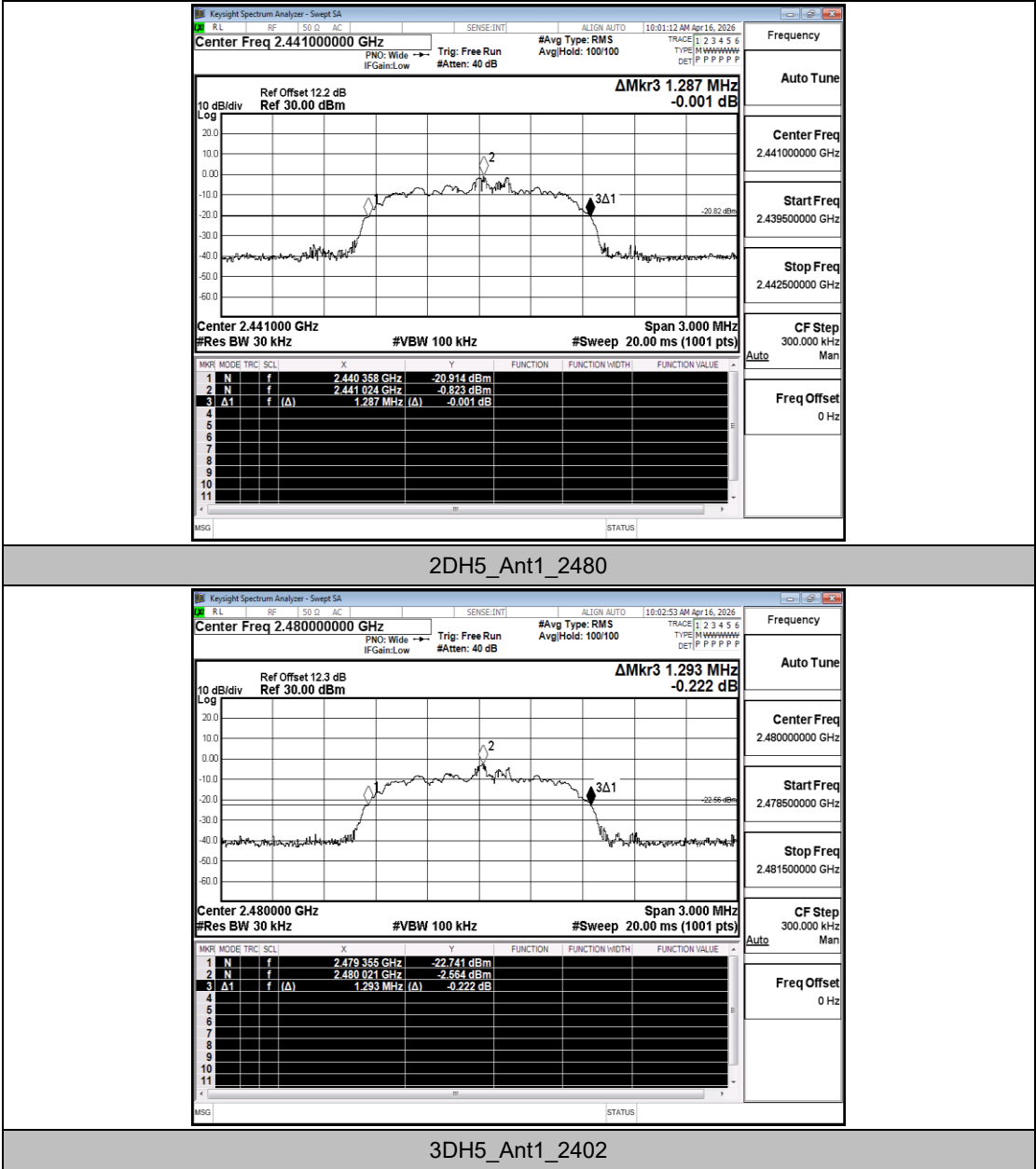
Test Result

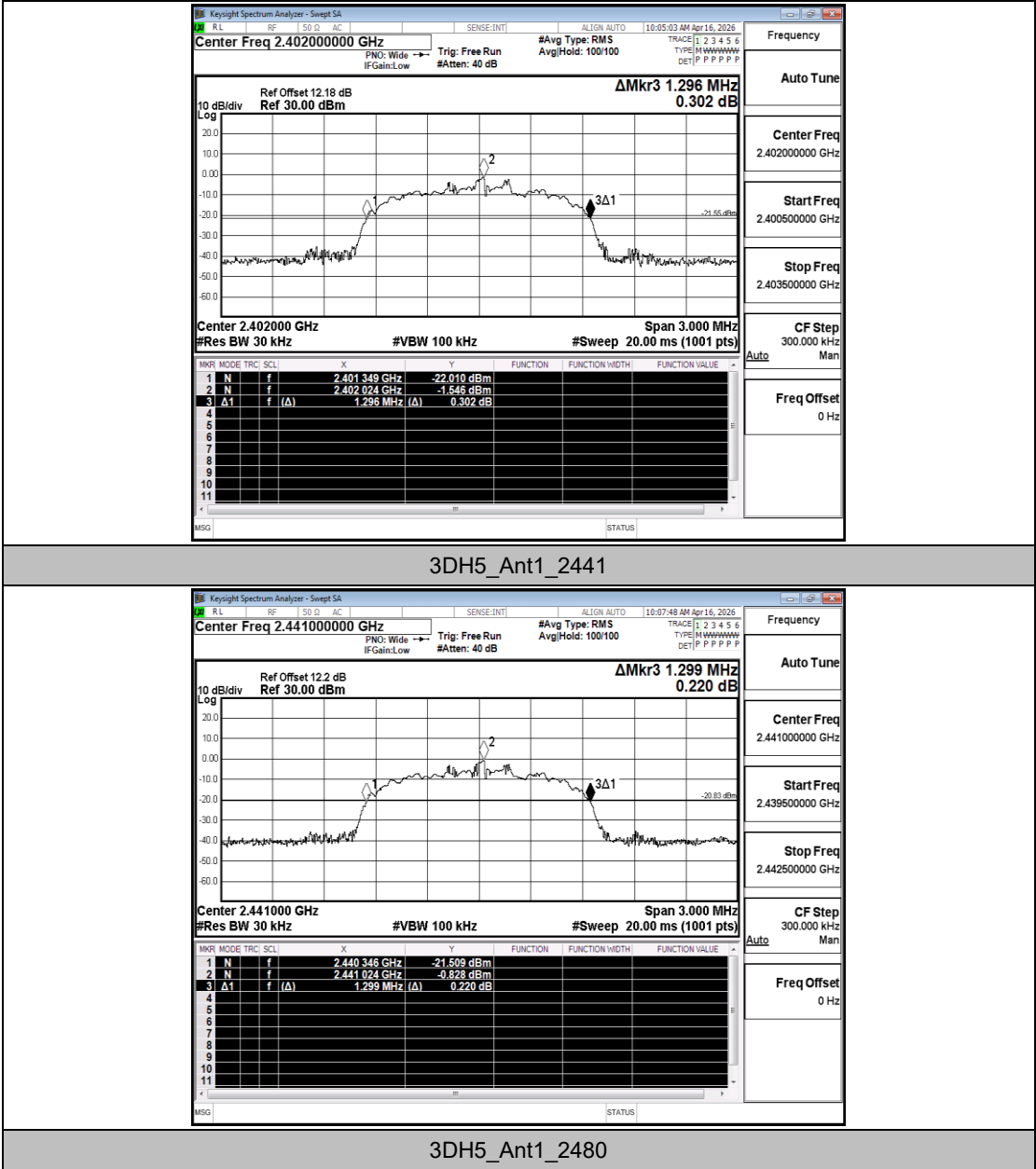
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.963	2401.535	2402.498	---	---
		2441	1.002	2440.499	2441.501	---	---
		2480	0.963	2479.535	2480.498	---	---
2DH5	Ant1	2402	1.290	2401.361	2402.651	---	---
		2441	1.287	2440.358	2441.645	---	---
		2480	1.293	2479.355	2480.648	---	---
3DH5	Ant1	2402	1.296	2401.349	2402.645	---	---
		2441	1.299	2440.346	2441.645	---	---
		2480	1.296	2479.346	2480.642	---	---

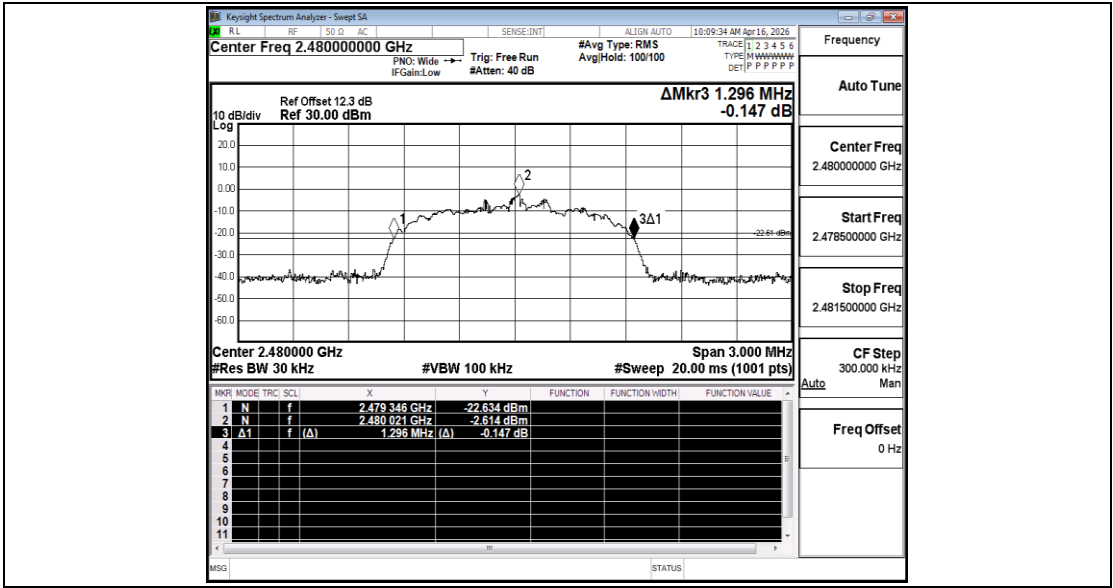
Test Graphs









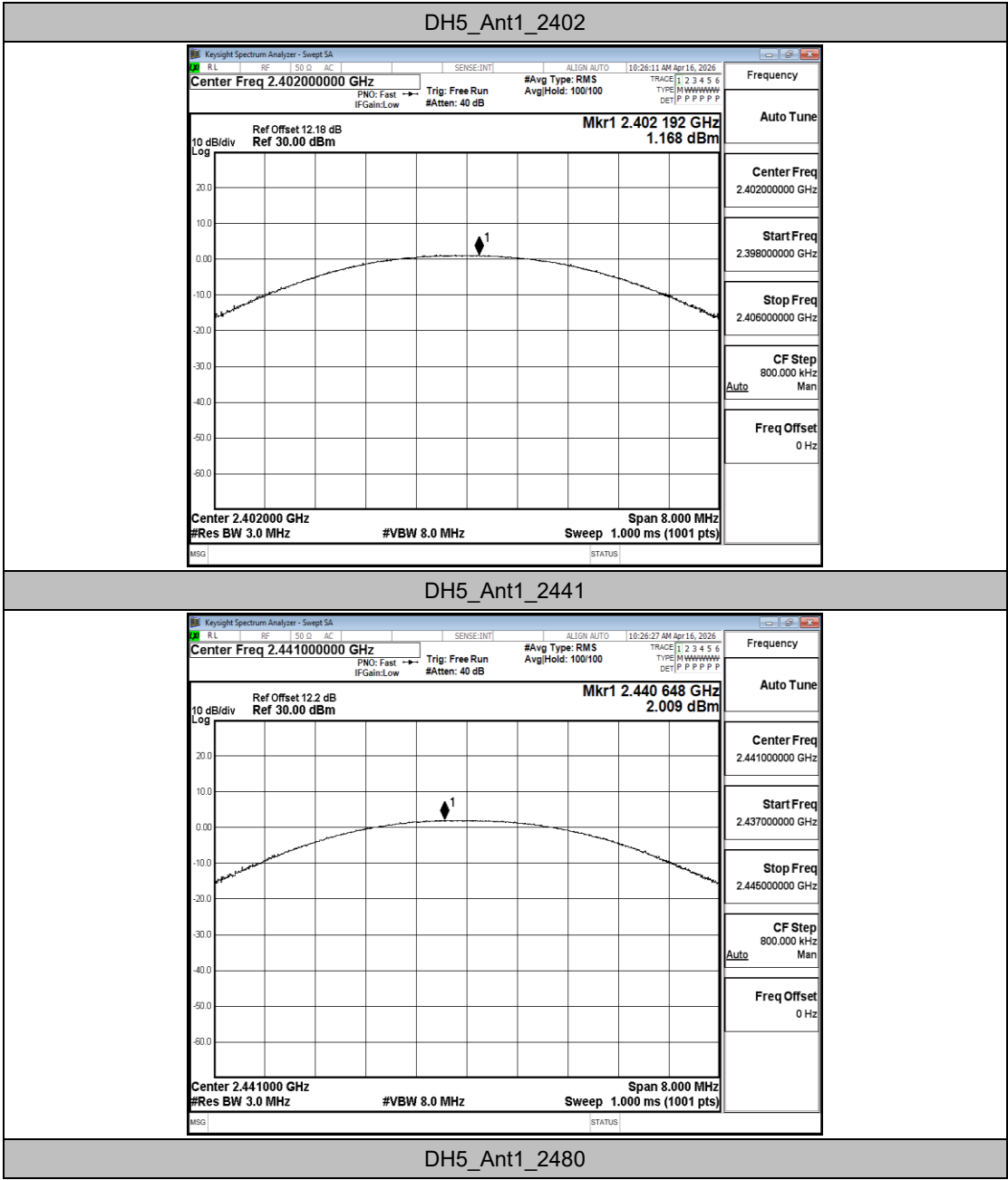


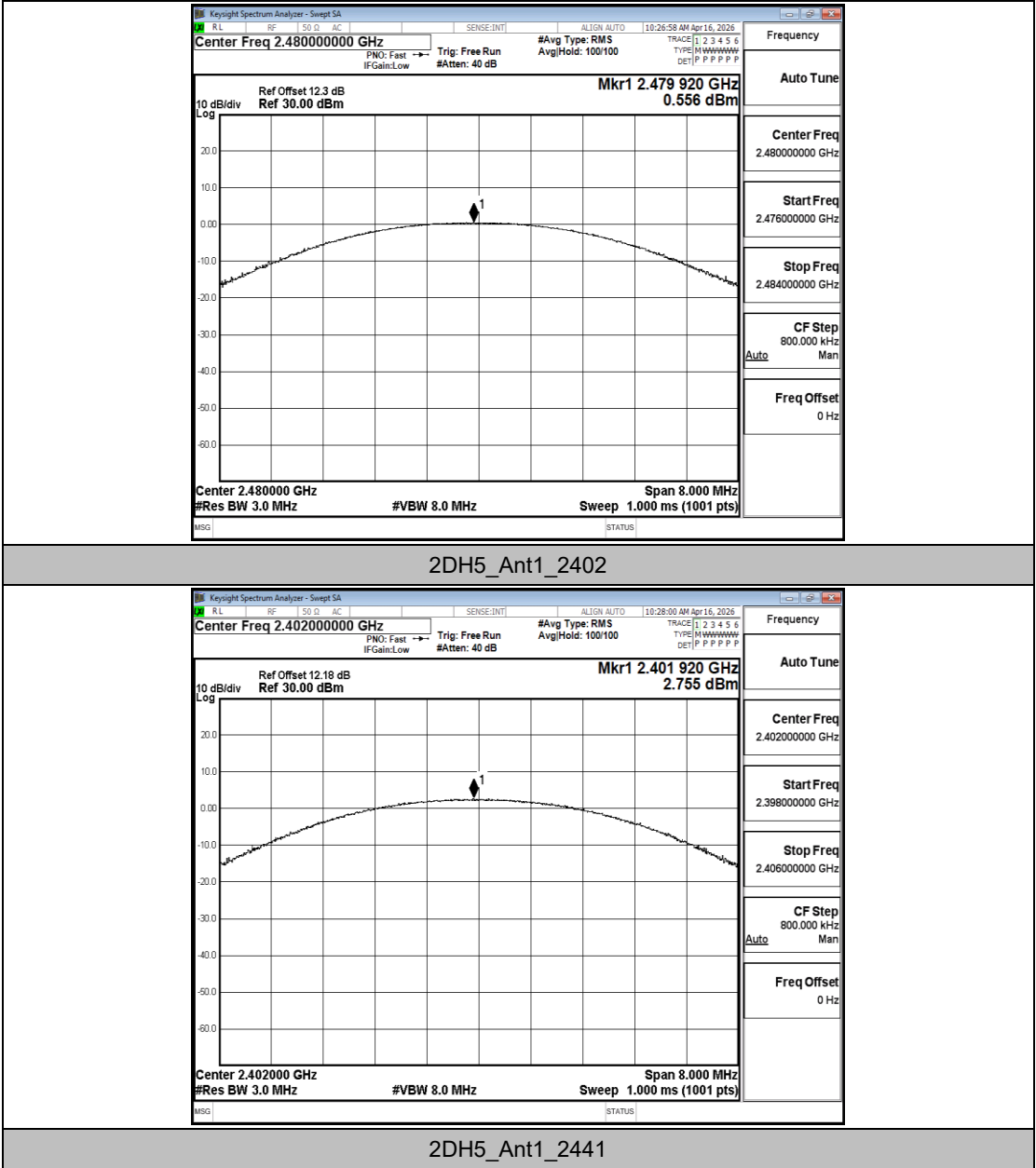
A.2 Maximum conducted output power

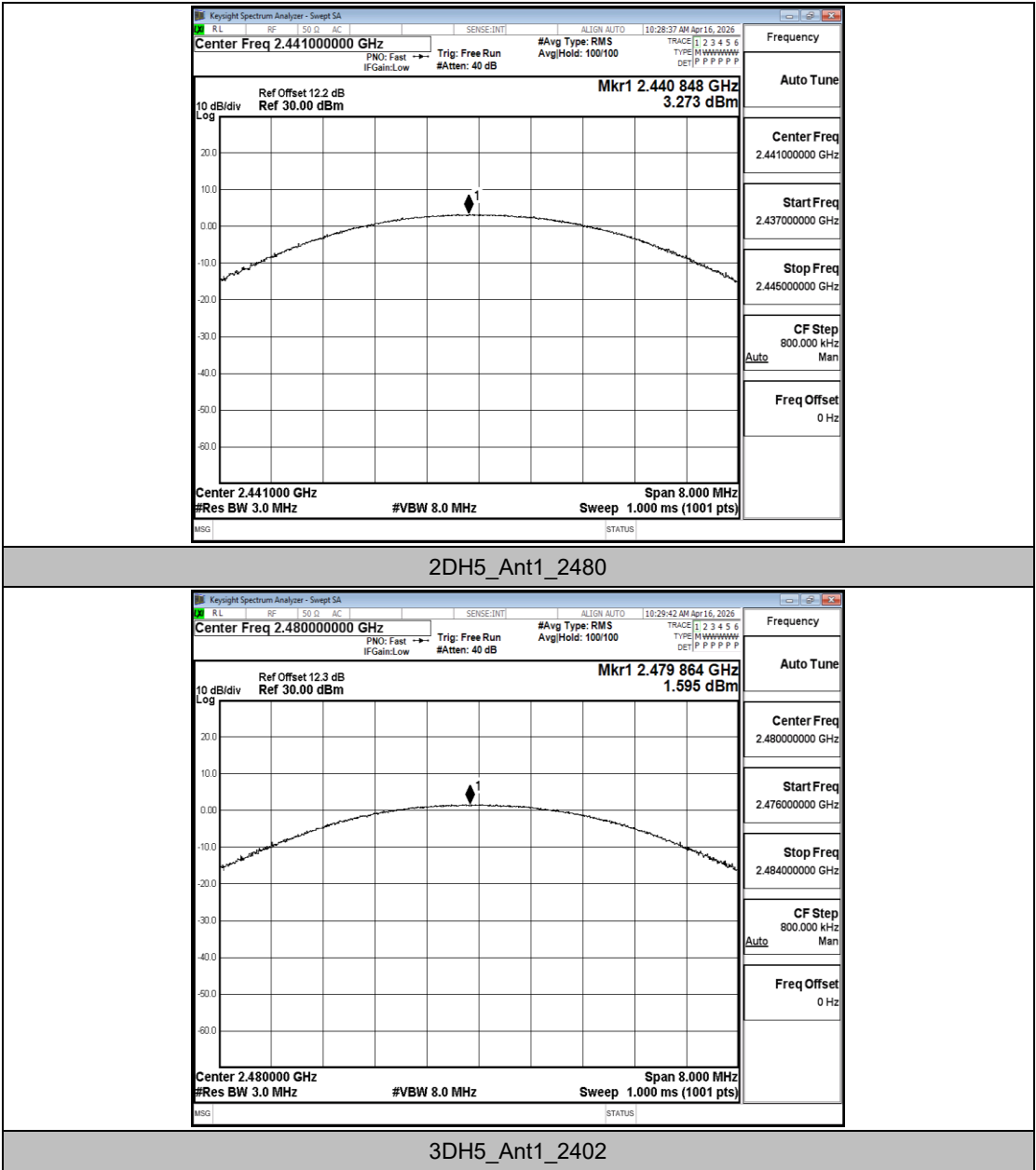
Test Result Peak

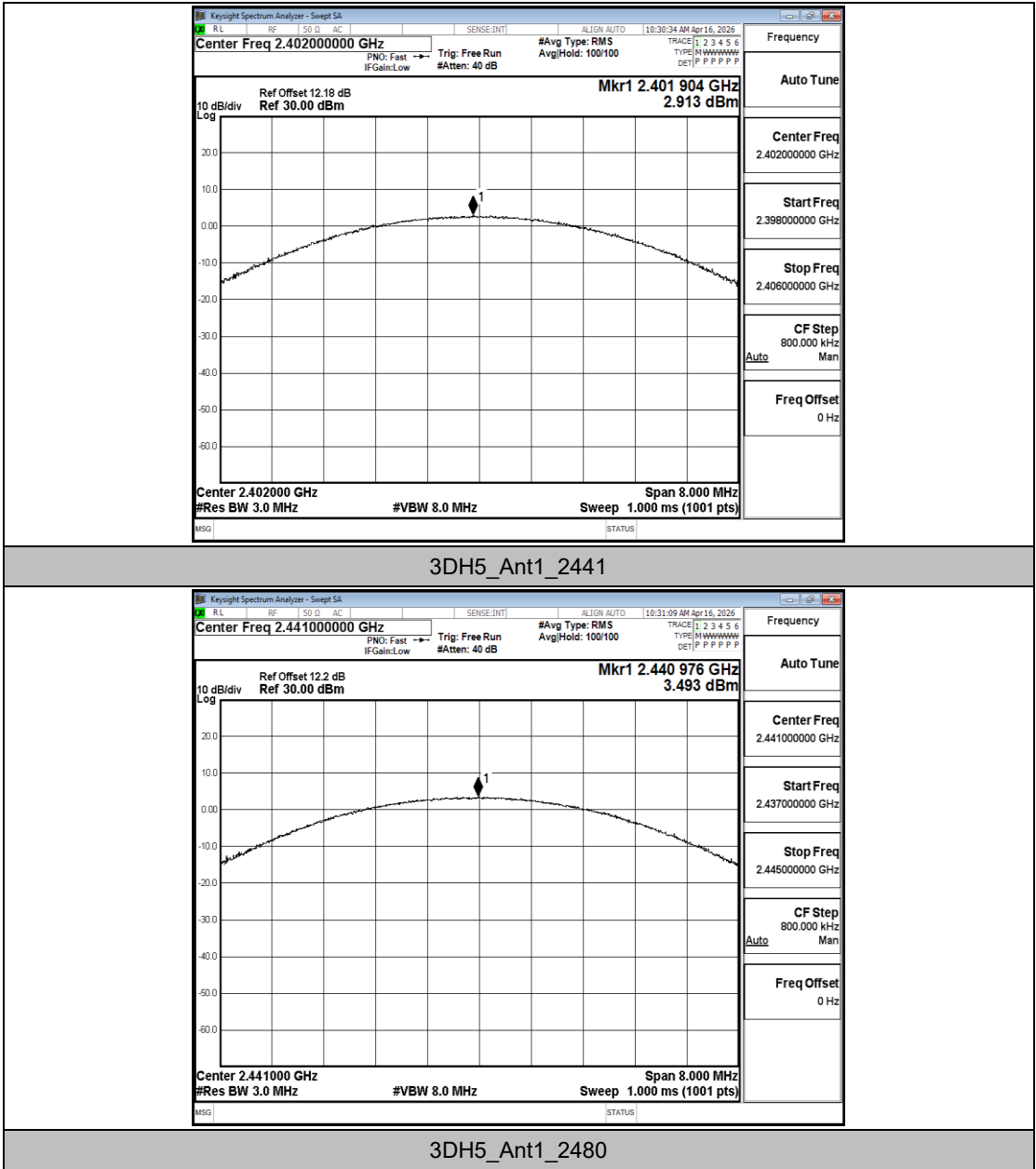
Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.17	≤20.97	PASS
		2441	2.01	≤20.97	PASS
		2480	0.56	≤20.97	PASS
2DH5	Ant1	2402	2.76	≤20.97	PASS
		2441	3.27	≤20.97	PASS
		2480	1.60	≤20.97	PASS
3DH5	Ant1	2402	2.91	≤20.97	PASS
		2441	3.49	≤20.97	PASS
		2480	1.77	≤20.97	PASS

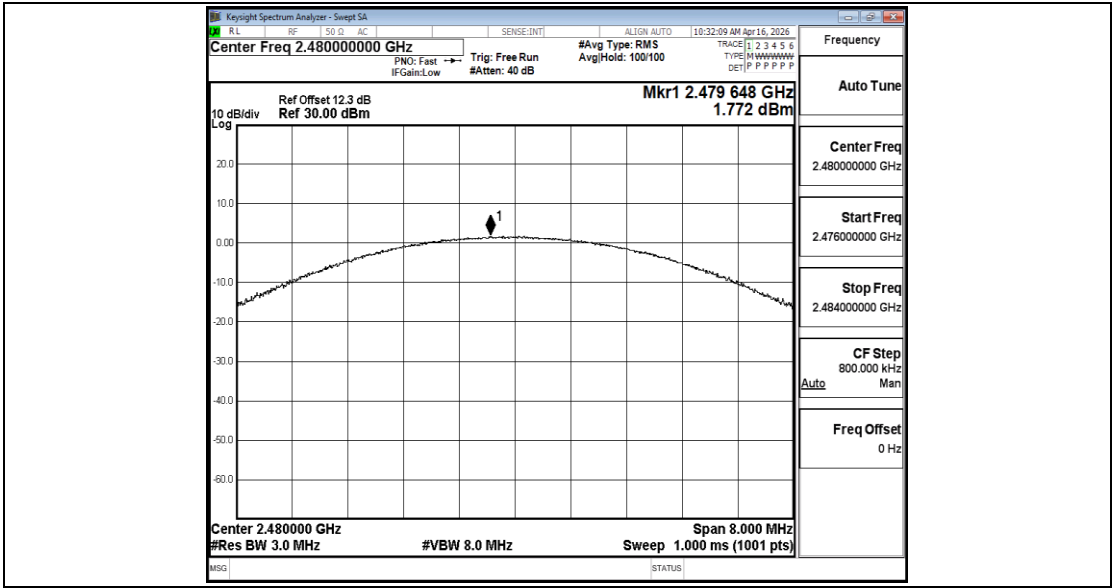
Test Graphs









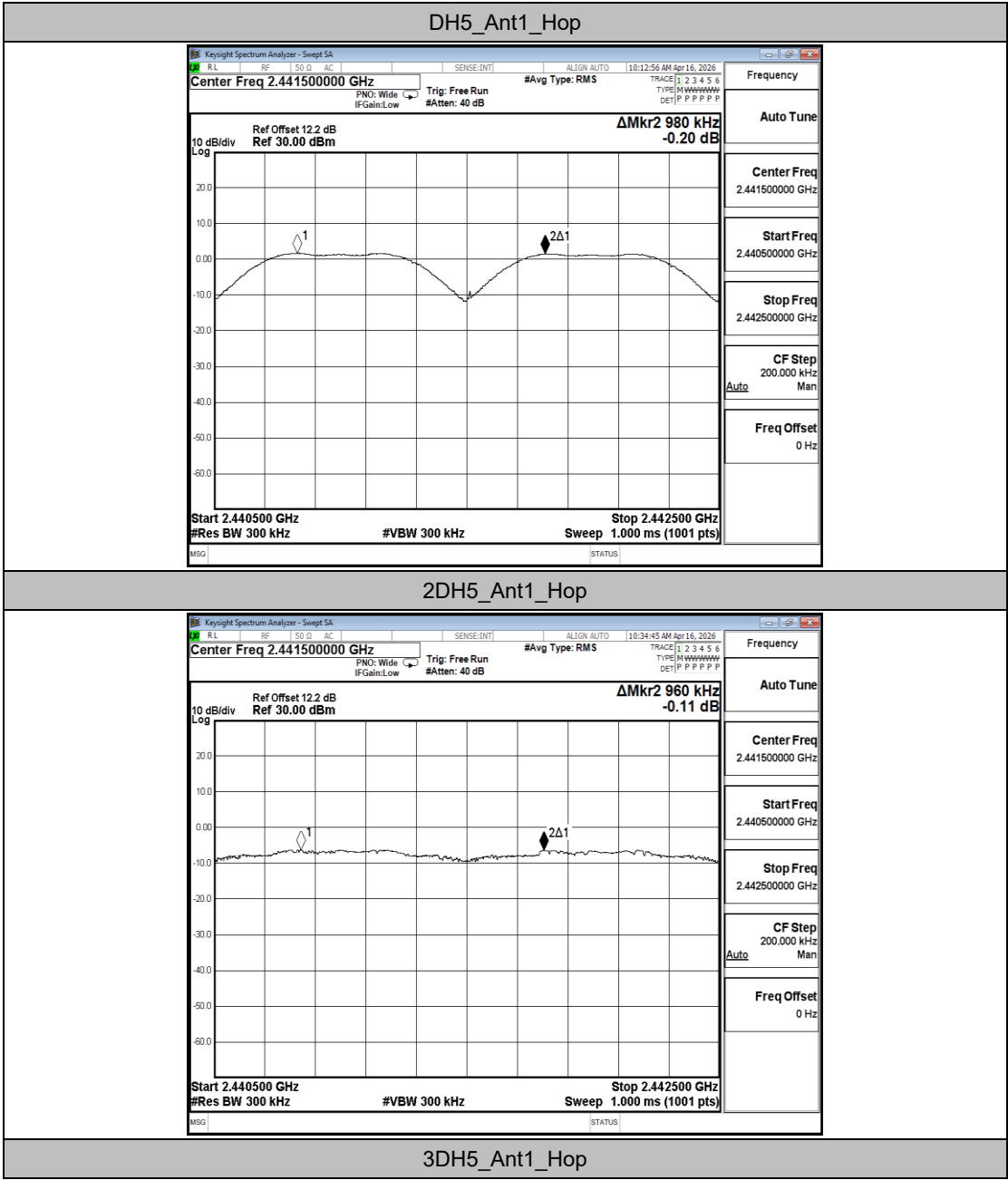


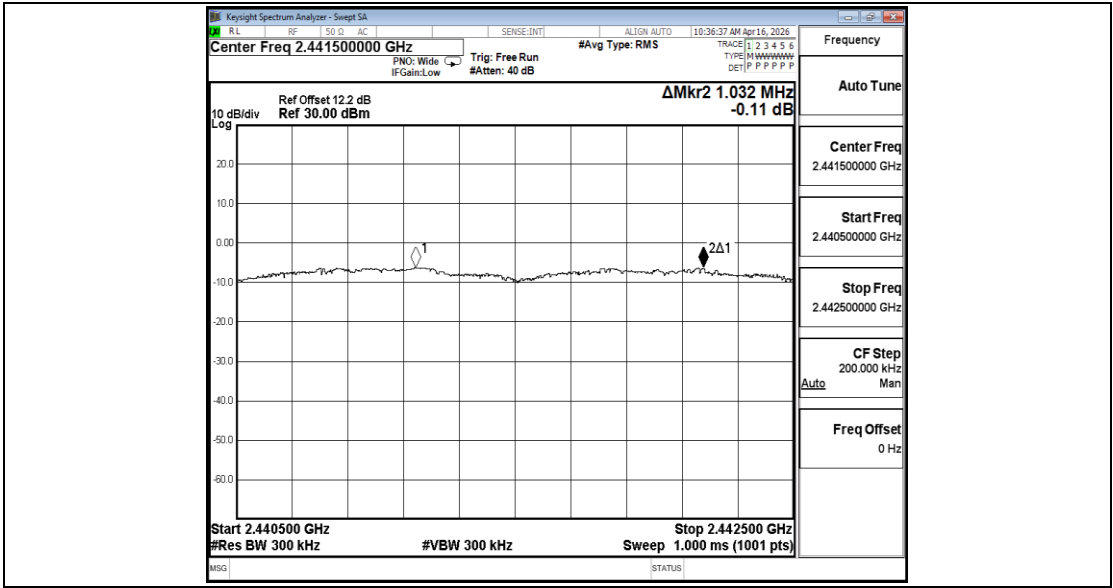
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.98	≥0.668	PASS
2DH5	Ant1	Hop	0.96	≥0.862	PASS
3DH5	Ant1	Hop	1.032	≥0.866	PASS

Test Graphs



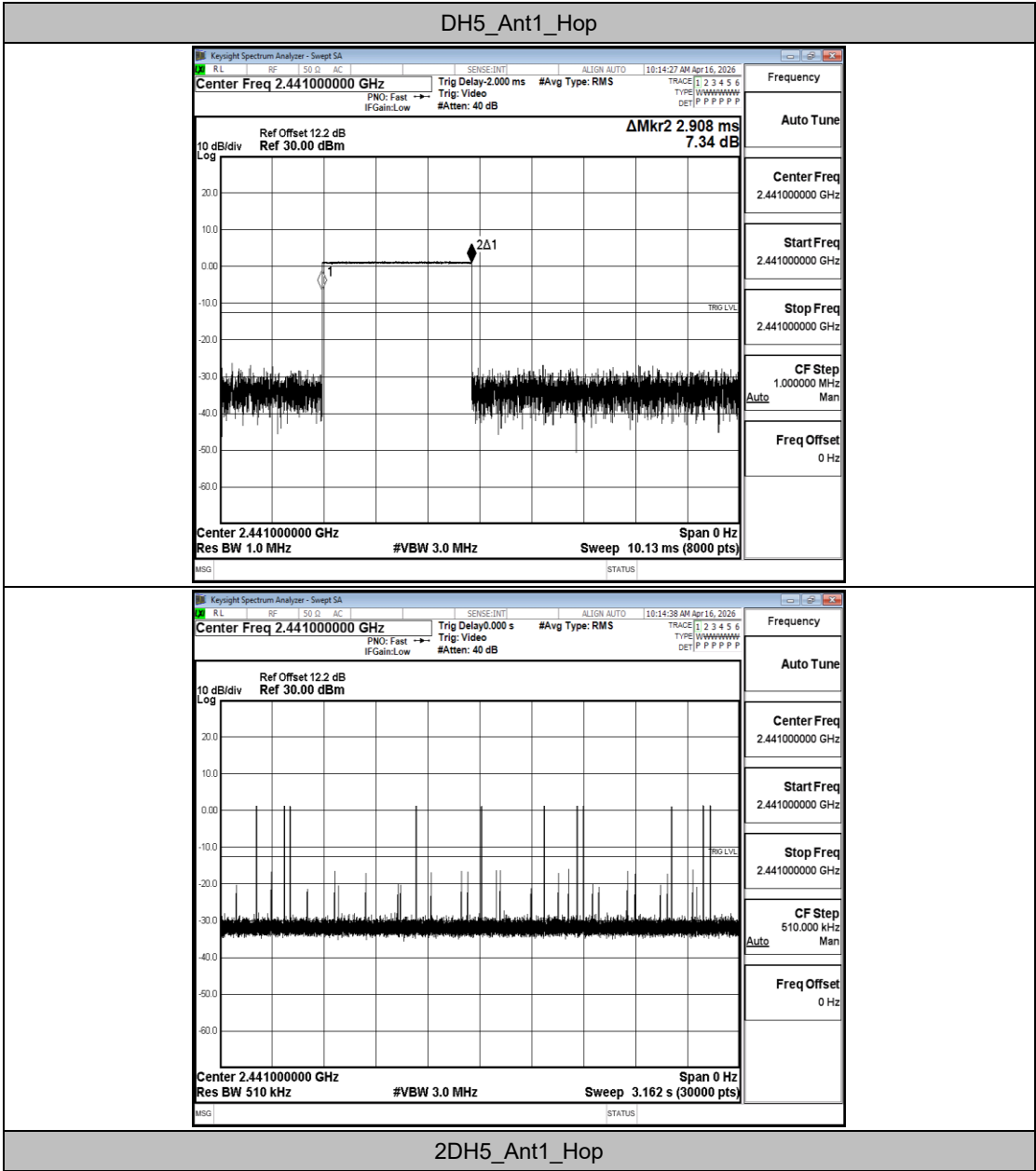


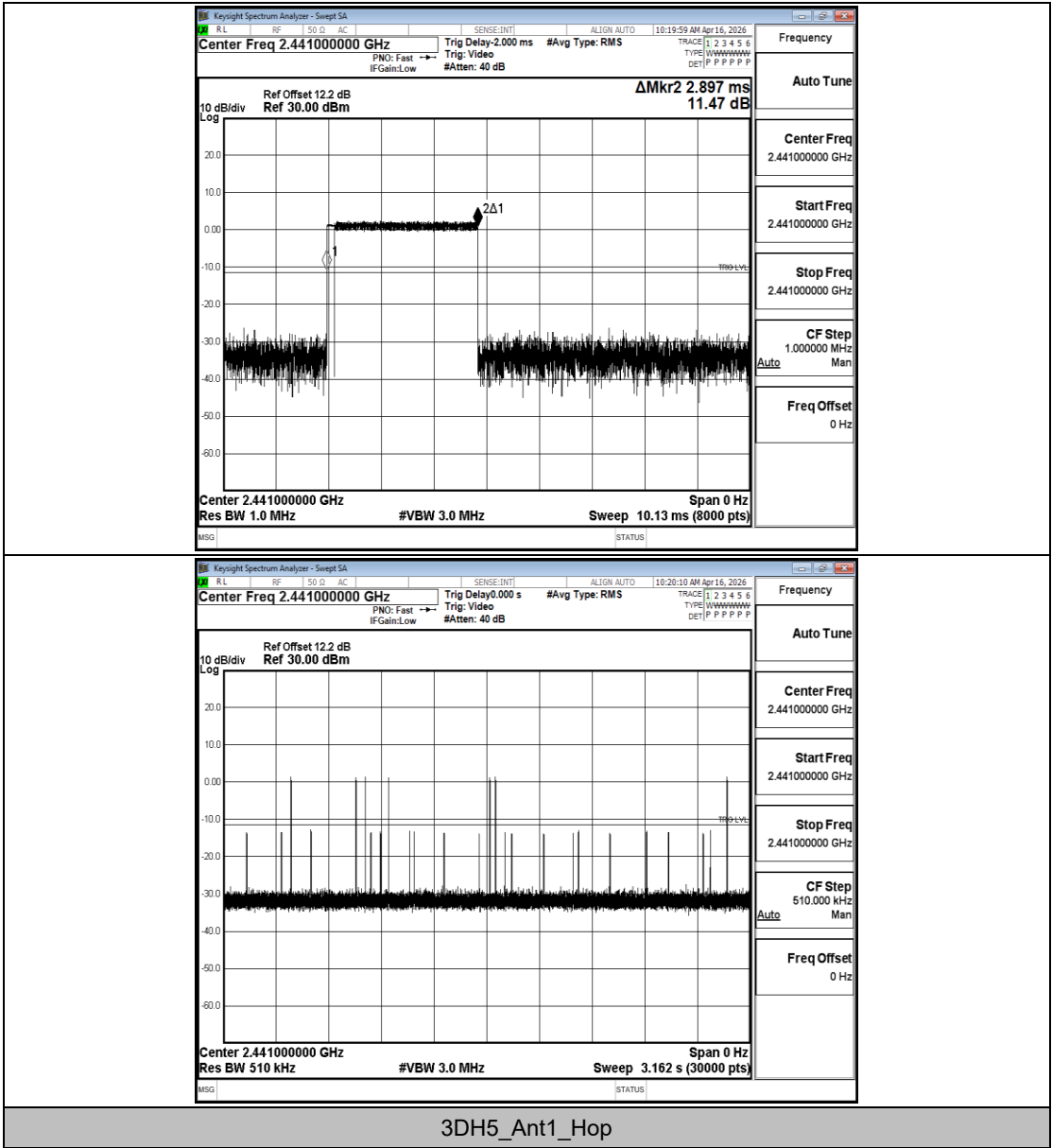
A.4 Time of occupancy

Test Result

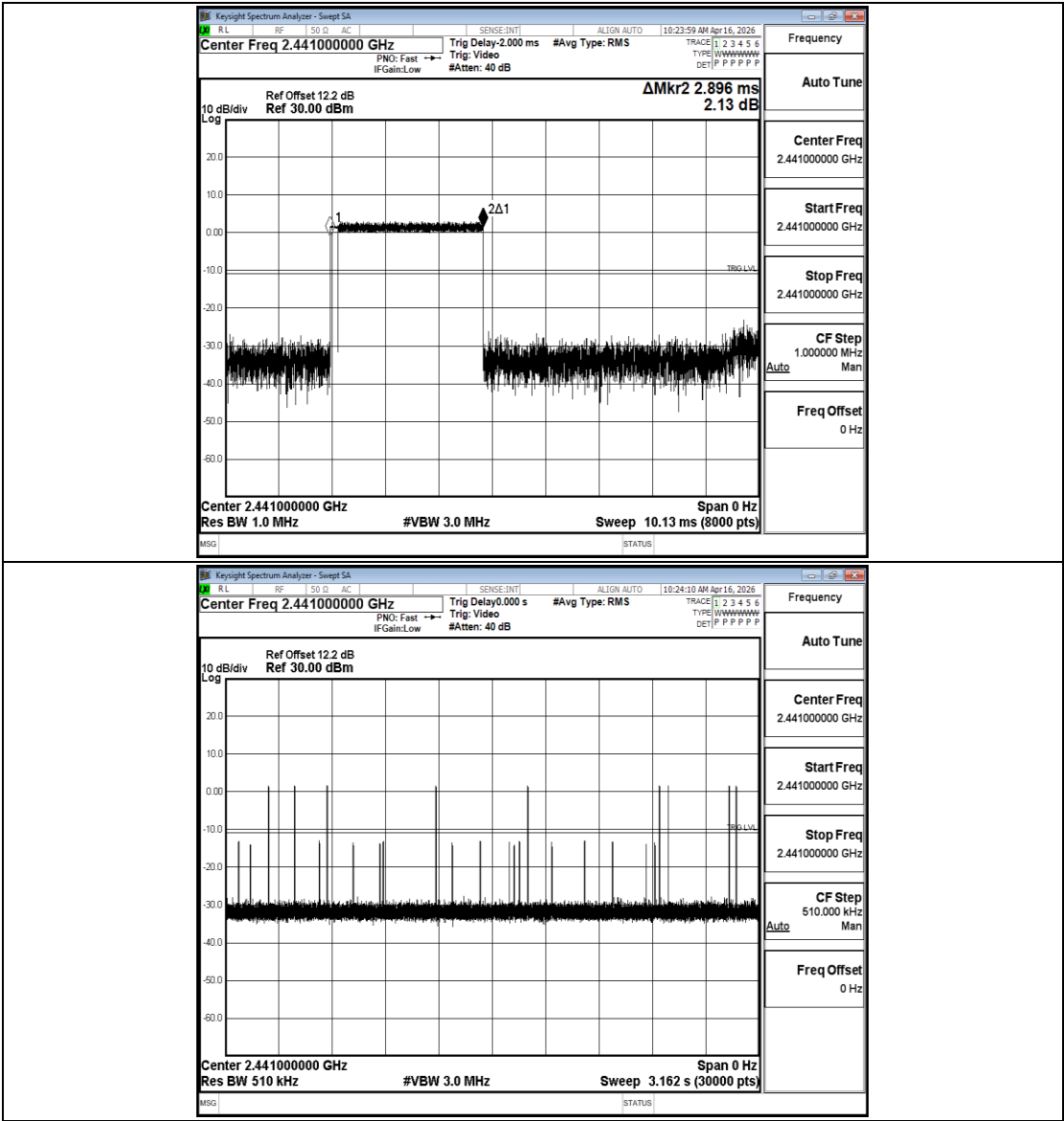
TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	120	0.349	≤0.4	PASS
2DH5	Ant1	Hop	2.897	80	0.232	≤0.4	PASS
3DH5	Ant1	Hop	2.896	100	0.29	≤0.4	PASS

Test Graphs





3DH5_Ant1_Hop

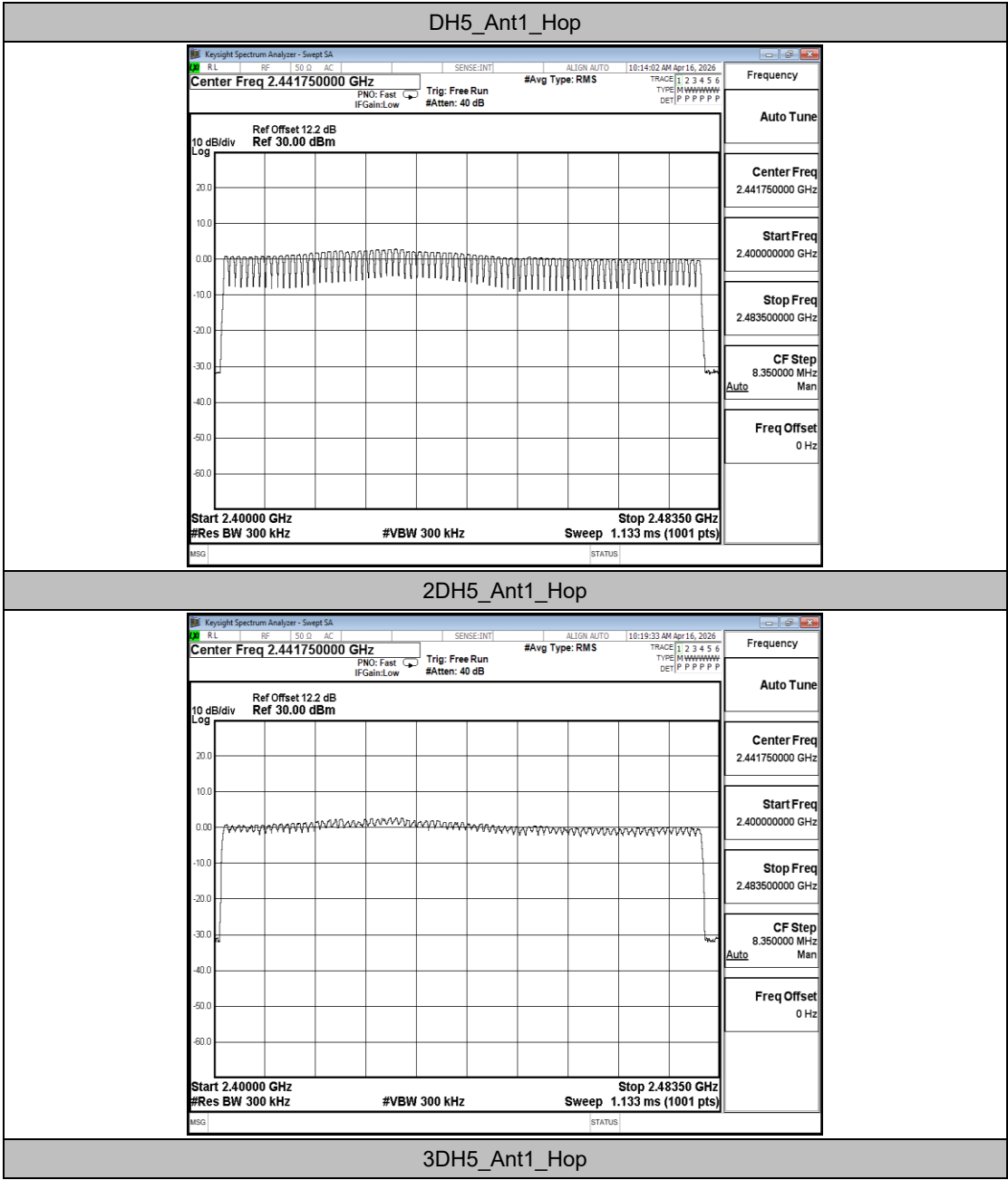


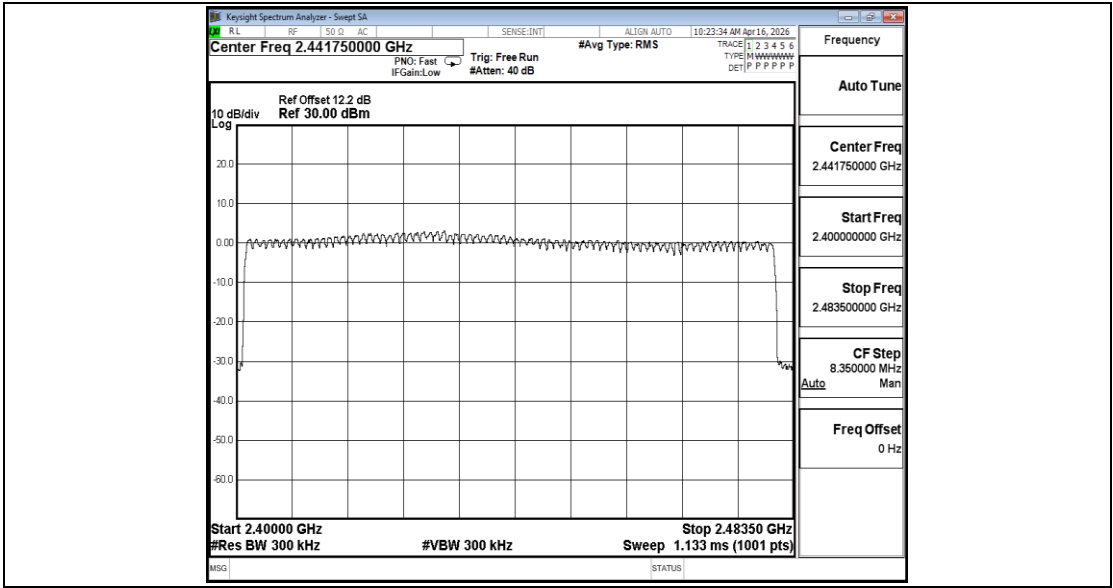
A.5 Number of hopping channels

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



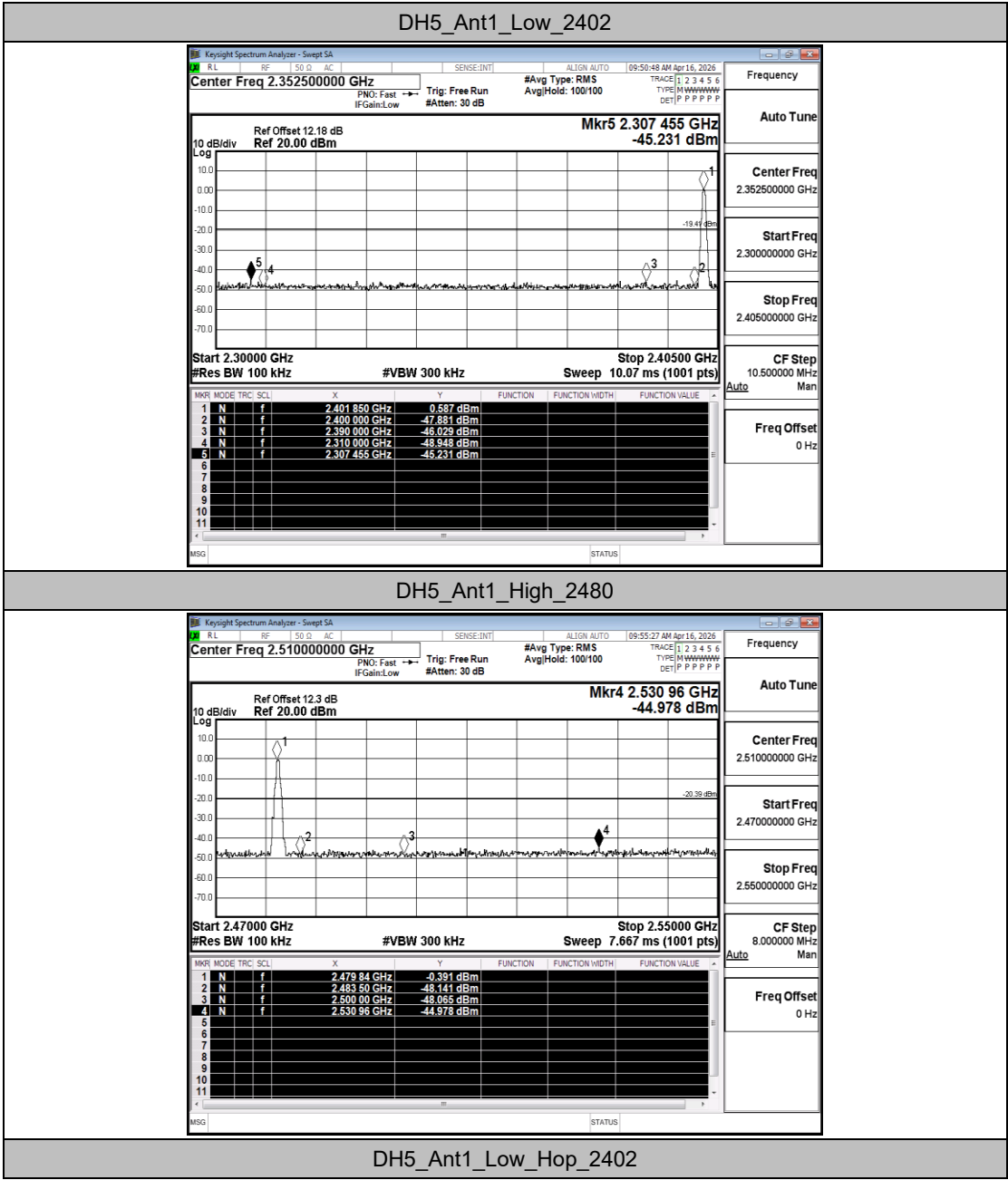


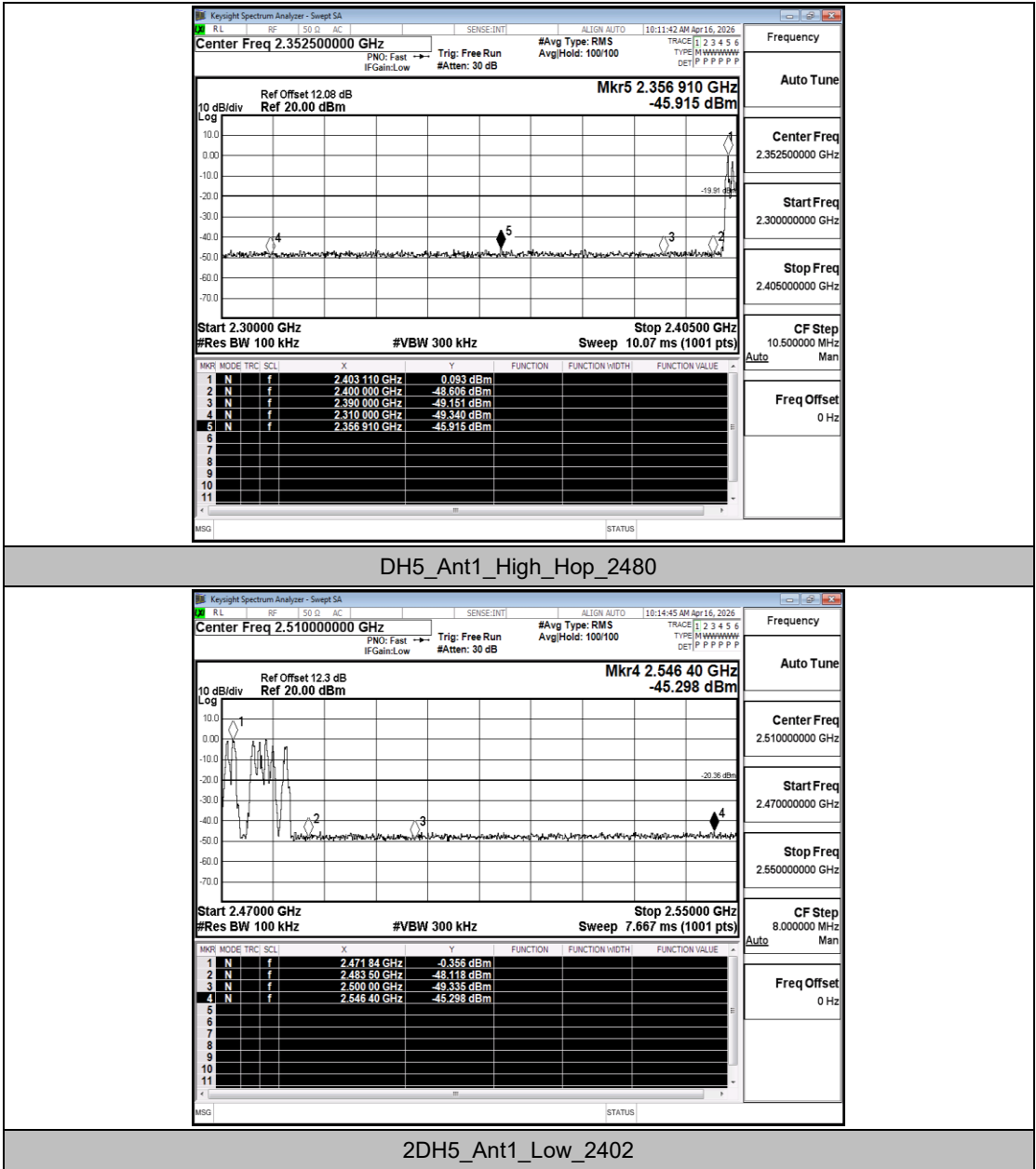
A.6 Band edge measurements

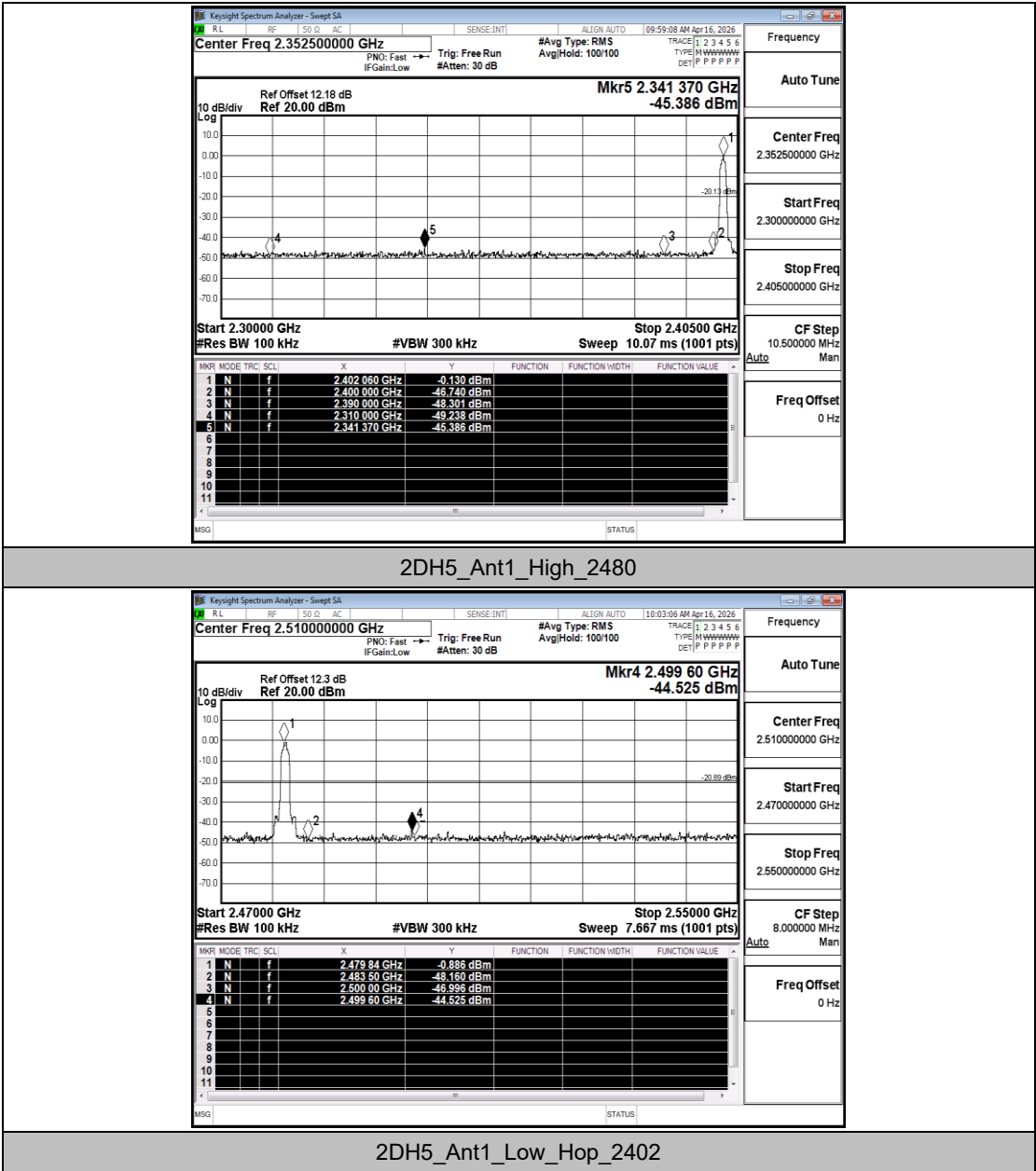
Test Result

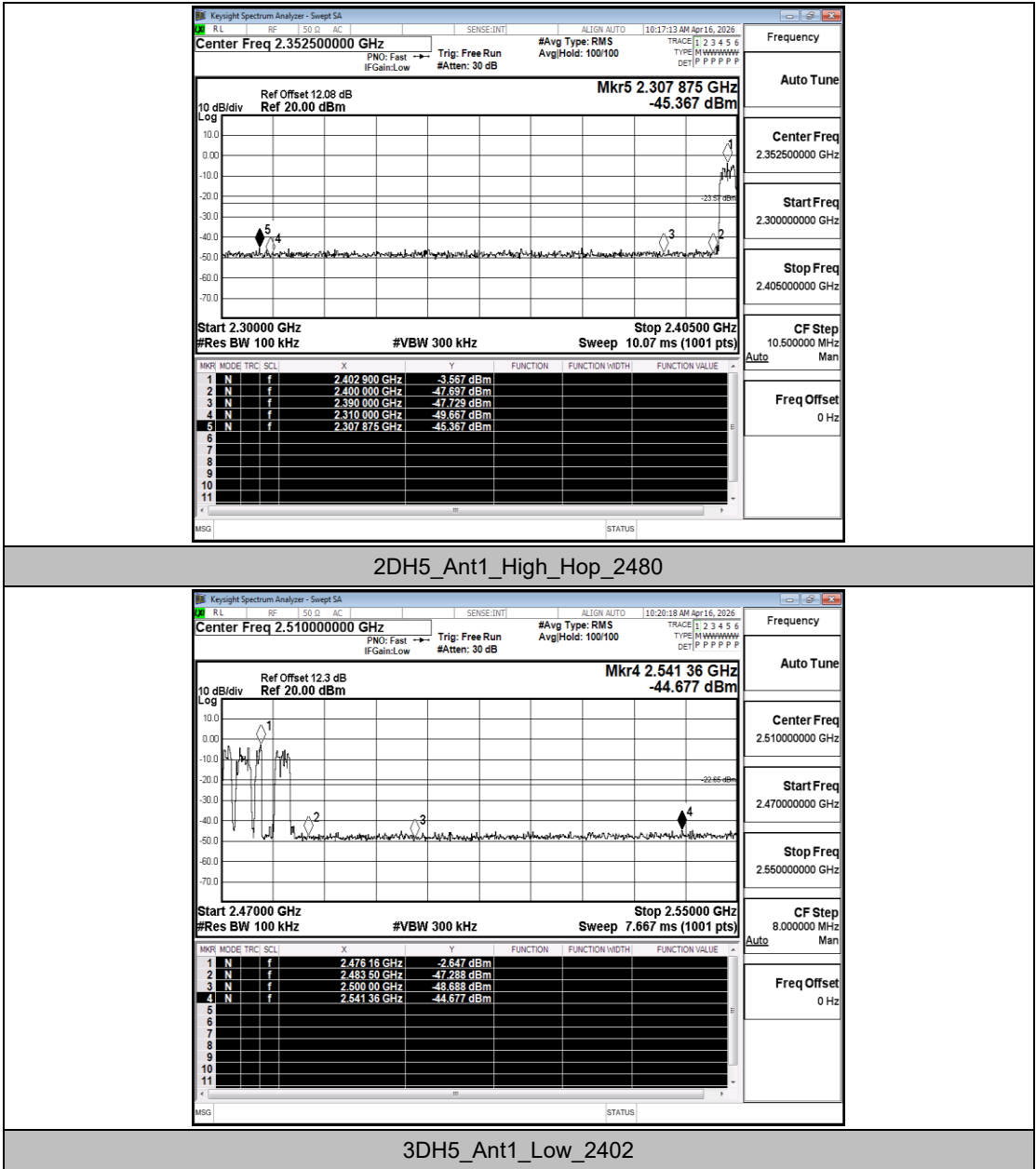
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.59	-45.23	≤ -19.41	PASS
		High	2480	-0.39	-44.98	≤ -20.39	PASS
		Low	Hop_2402	0.09	-45.92	≤ -19.91	PASS
		High	Hop_2480	-0.36	-45.3	≤ -20.36	PASS
2DH5	Ant1	Low	2402	-0.13	-45.39	≤ -20.13	PASS
		High	2480	-0.89	-44.53	≤ -20.89	PASS
		Low	Hop_2402	-3.57	-45.37	≤ -23.57	PASS
		High	Hop_2480	-2.65	-44.68	≤ -22.65	PASS
3DH5	Ant1	Low	2402	-0.85	-44.64	≤ -20.85	PASS
		High	2480	-2.45	-44.65	≤ -22.45	PASS
		Low	Hop_2402	-0.09	-45.75	≤ -20.09	PASS
		High	Hop_2480	-2.45	-44.8	≤ -22.45	PASS

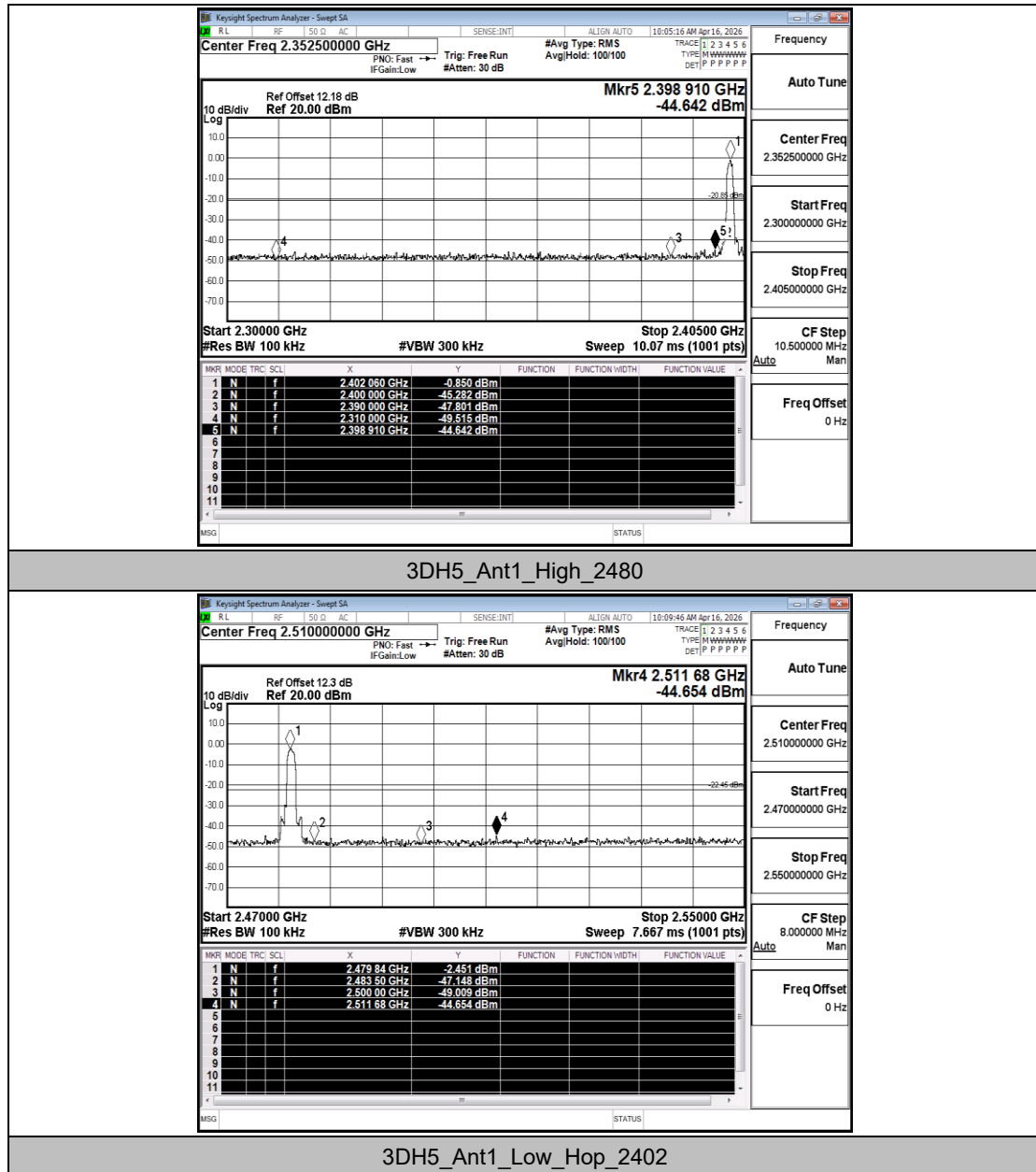
Test Graphs

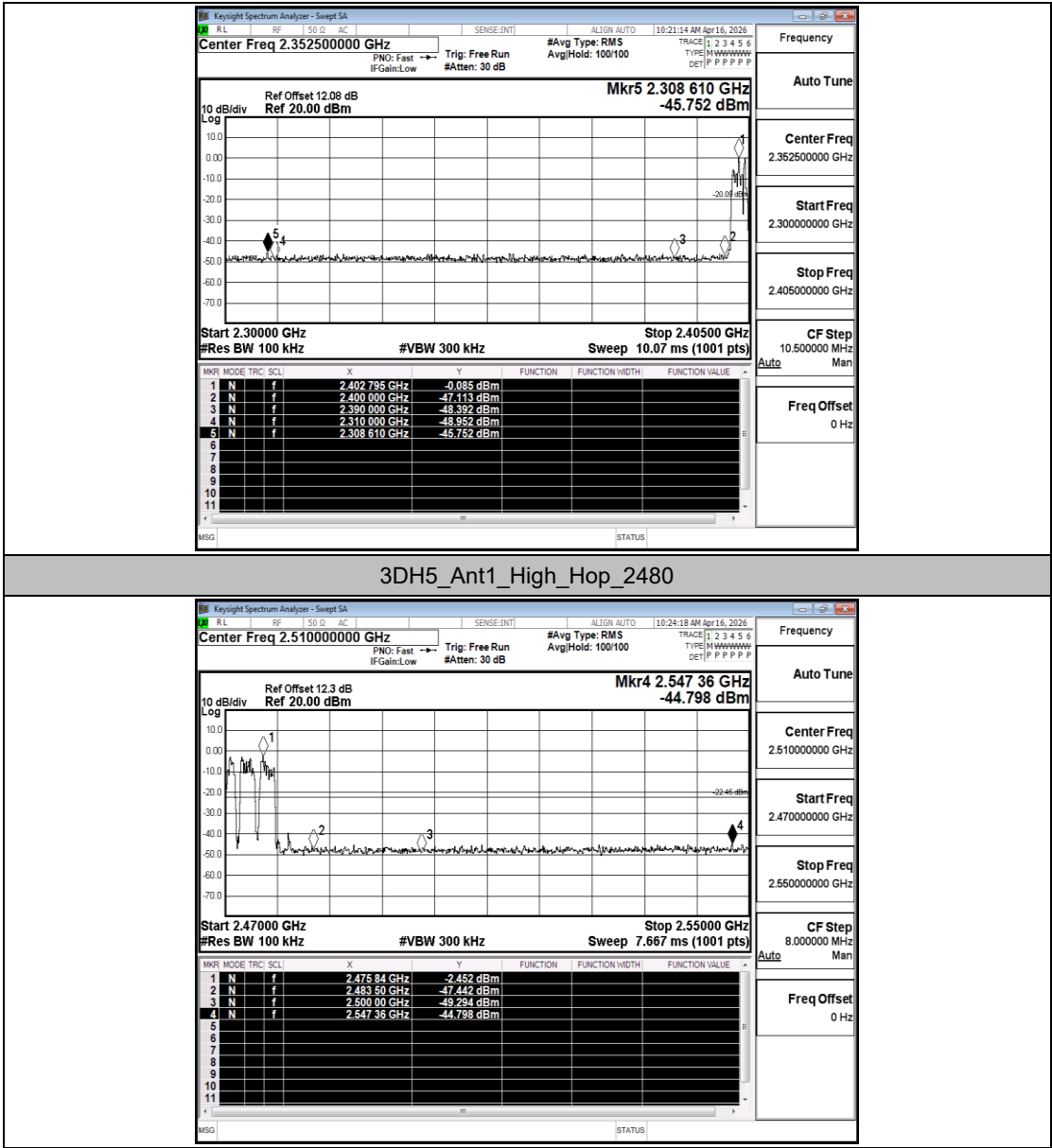












A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.60	0.60	---	PASS
			30~1000	0.60	-58.11	≤-19.4	PASS
			1000~26500	0.60	-52.78	≤-19.4	PASS
		2441	Reference	1.32	1.32	---	PASS
			30~1000	1.32	-54.75	≤-18.68	PASS
			1000~26500	1.32	-54.42	≤-18.68	PASS
		2480	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-58.34	≤-20.35	PASS
			1000~26500	-0.35	-54.81	≤-20.35	PASS
2DH5	Ant1	2402	Reference	0.48	0.48	---	PASS
			30~1000	0.48	-56.11	≤-19.52	PASS
			1000~26500	0.48	-54.41	≤-19.52	PASS
		2441	Reference	1.16	1.16	---	PASS
			30~1000	1.16	-60.34	≤-18.84	PASS
			1000~26500	1.16	-54.64	≤-18.84	PASS
		2480	Reference	-0.51	-0.51	---	PASS
			30~1000	-0.51	-56.89	≤-20.51	PASS
			1000~26500	-0.51	-54.83	≤-20.51	PASS
3DH5	Ant1	2402	Reference	0.61	0.61	---	PASS
			30~1000	0.61	-58.38	≤-19.39	PASS
			1000~26500	0.61	-55.32	≤-19.39	PASS
		2441	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-56.62	≤-18.76	PASS
			1000~26500	1.24	-54.16	≤-18.76	PASS
		2480	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-51.72	≤-20.41	PASS
			1000~26500	-0.41	-54	≤-20.41	PASS

Test Graphs

