

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: AI Ergonomic Motion Chair

Test Model: HLC-800

Environmental Conditions

Temperature:	24.5°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

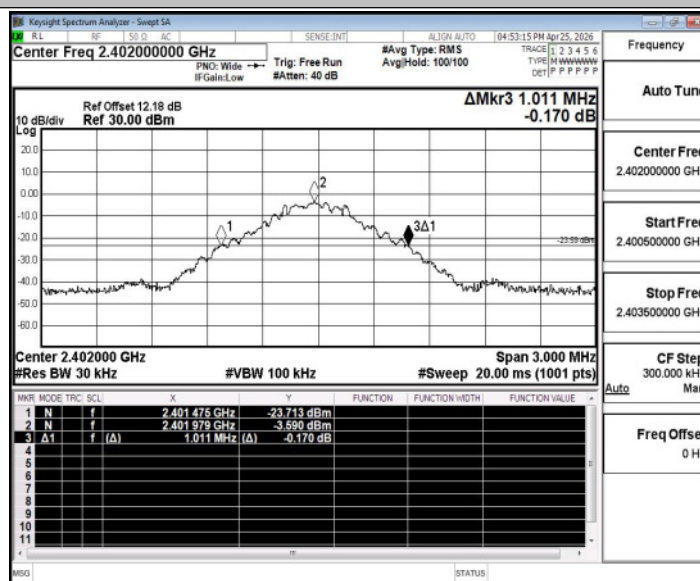
A.1 20dB Emission Bandwidth

Test Result

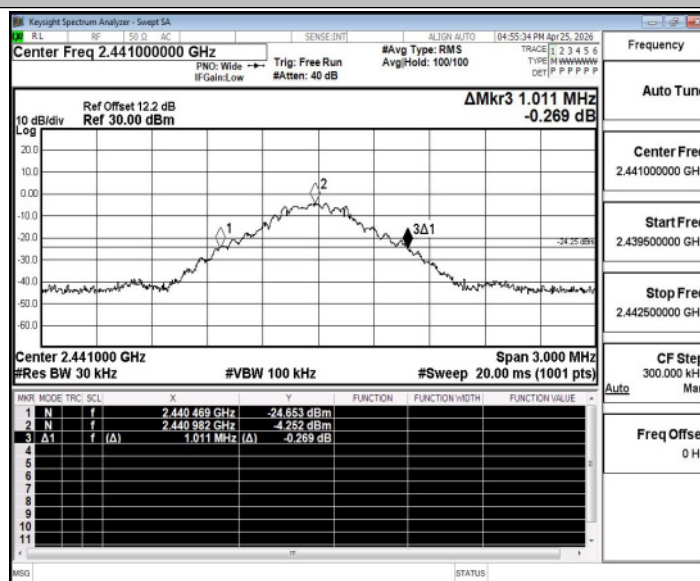
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.011	2401.475	2402.486	---	---
		2441	1.011	2440.469	2441.480	---	---
		2480	0.999	2479.478	2480.477	---	---
2DH5	Ant1	2402	1.281	2401.352	2402.633	---	---
		2441	1.320	2440.322	2441.642	---	---
		2480	1.311	2479.331	2480.642	---	---
3DH5	Ant1	2402	1.299	2401.337	2402.636	---	---
		2441	1.302	2440.337	2441.639	---	---
		2480	1.302	2479.334	2480.636	---	---

Test Graphs

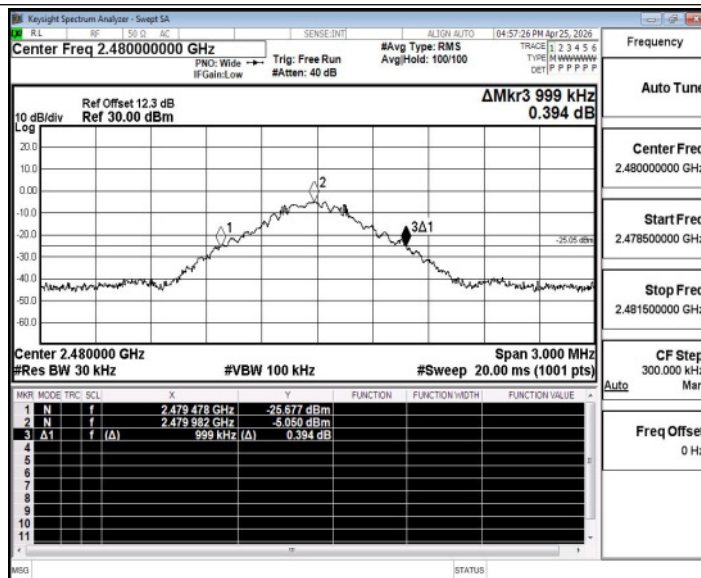
DH5_Ant1_2402



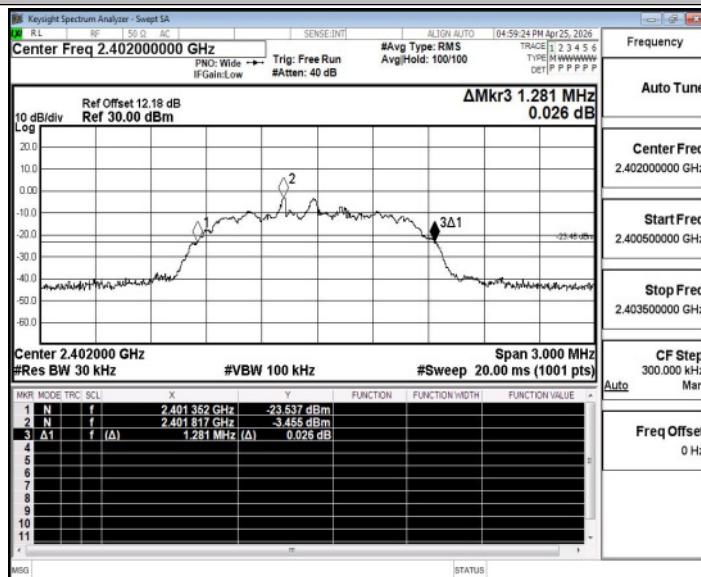
DH5_Ant1_2441



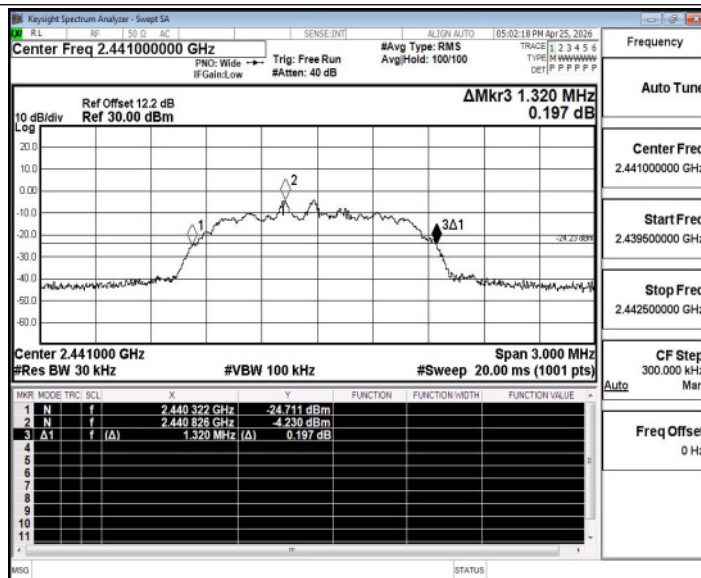
DH5_Ant1_2480



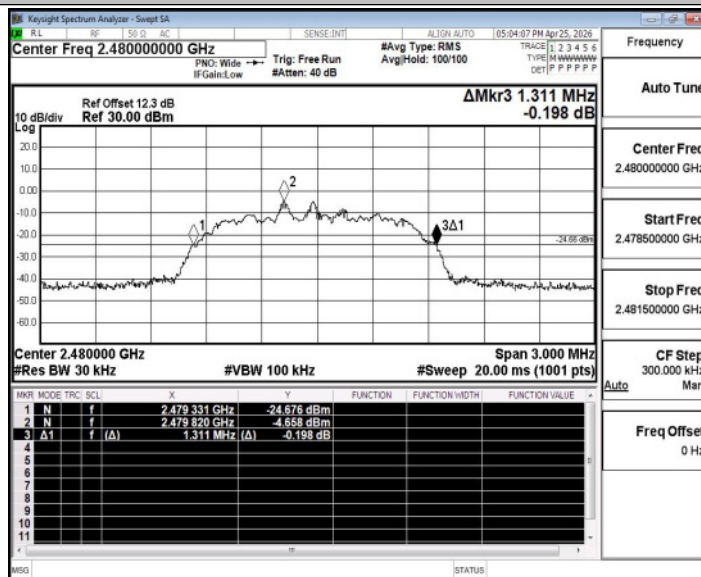
2DH5_Ant1_2402



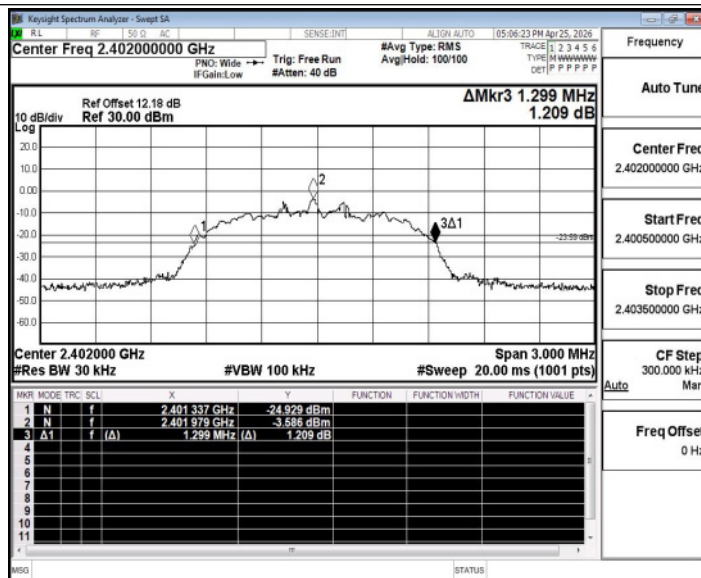
2DH5_Ant1_2441



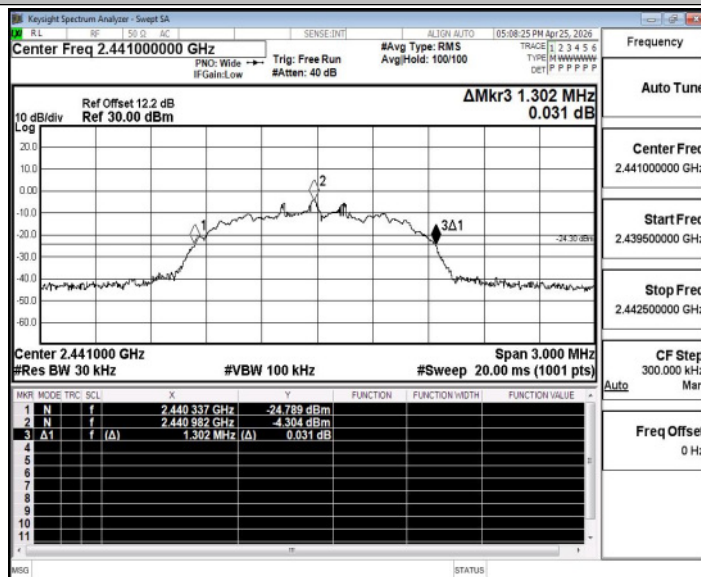
2DH5_Ant1_2480



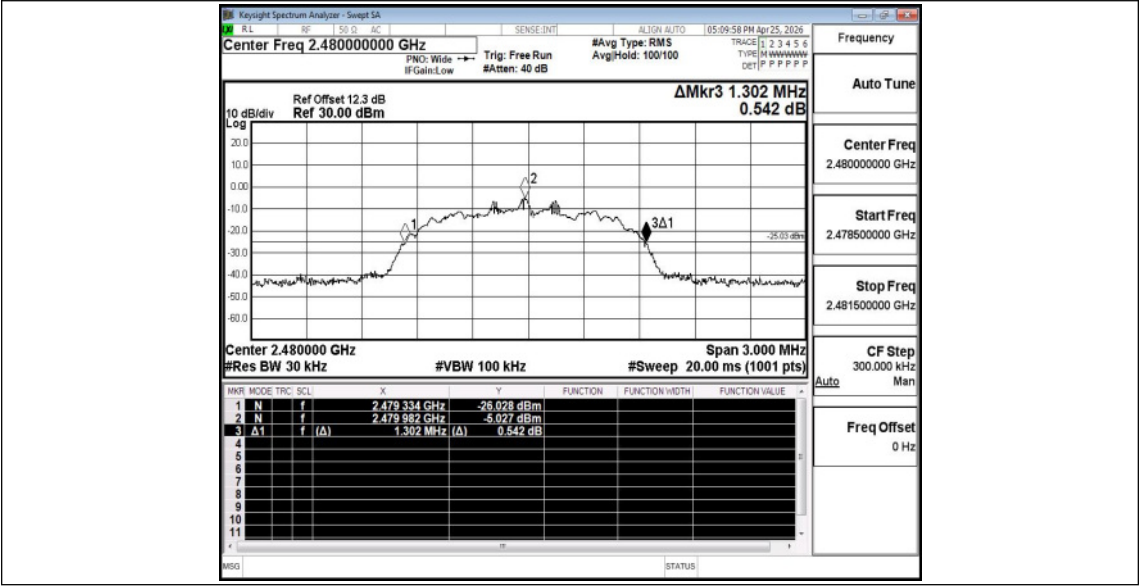
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



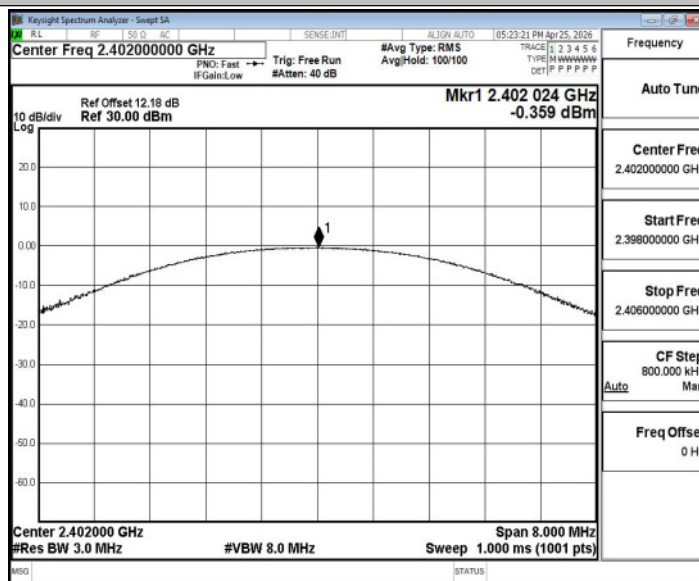
A.2 Maximum Peak conducted output power

Test Result

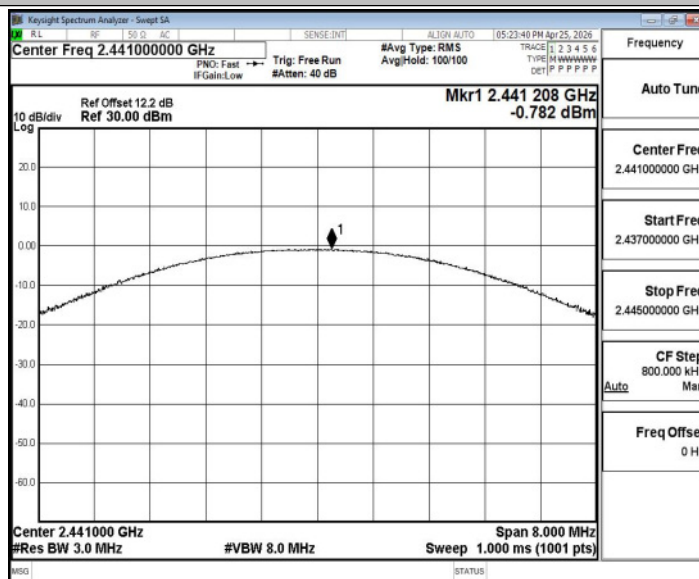
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.36	≤30	PASS
		2441	-0.78	≤30	PASS
		2480	-1.29	≤30	PASS
2DH5	Ant1	2402	0.29	≤30	PASS
		2441	-0.14	≤30	PASS
		2480	-0.73	≤30	PASS
3DH5	Ant1	2402	0.60	≤30	PASS
		2441	0.40	≤30	PASS
		2480	-0.44	≤30	PASS

Test Graphs

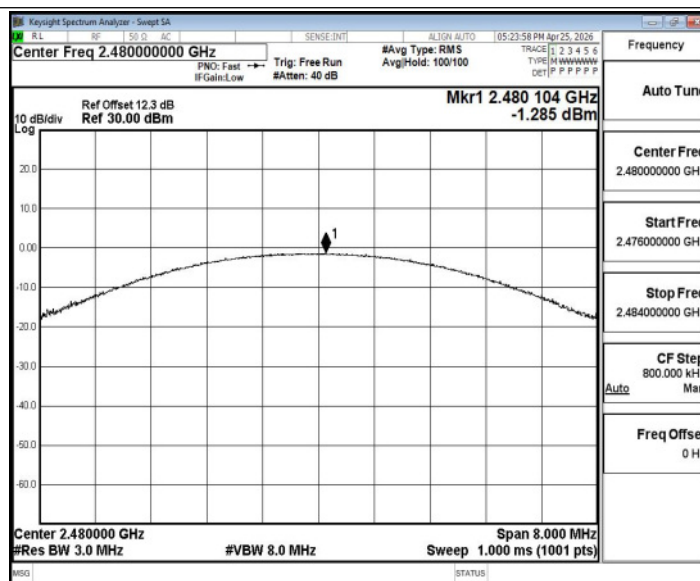
DH5_Ant1_2402



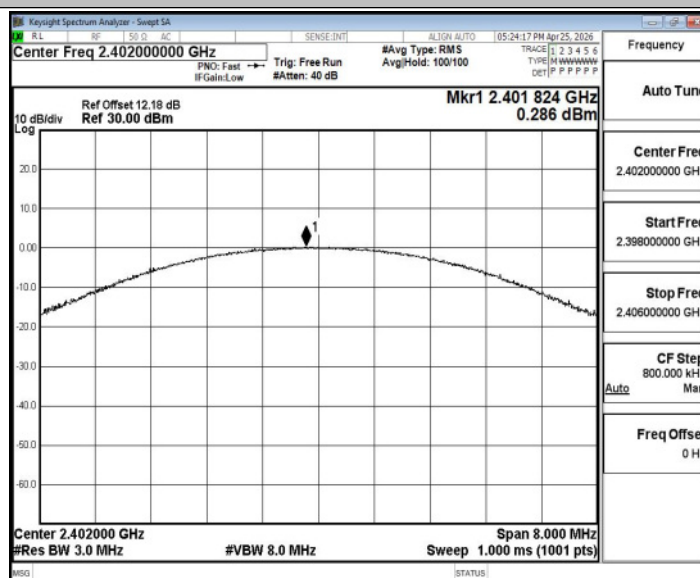
DH5_Ant1_2441



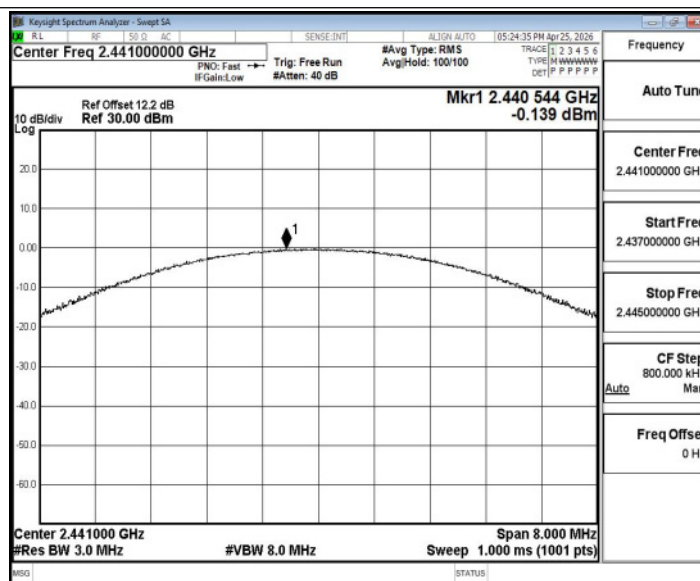
DH5_Ant1_2480



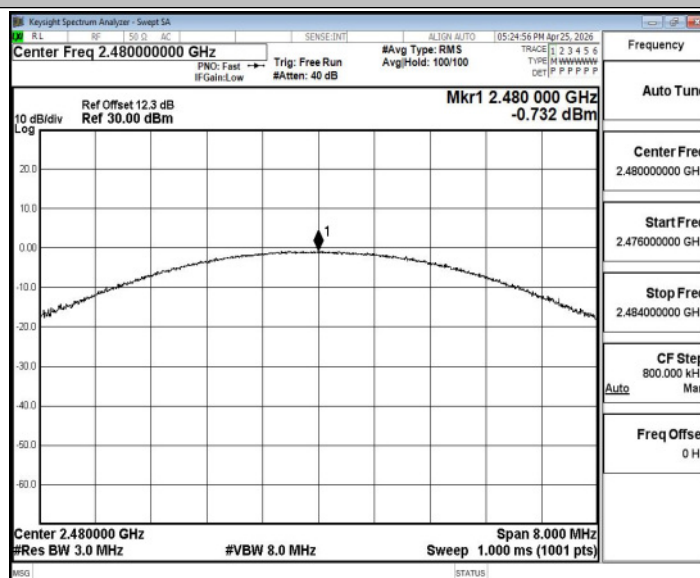
2DH5_Ant1_2402



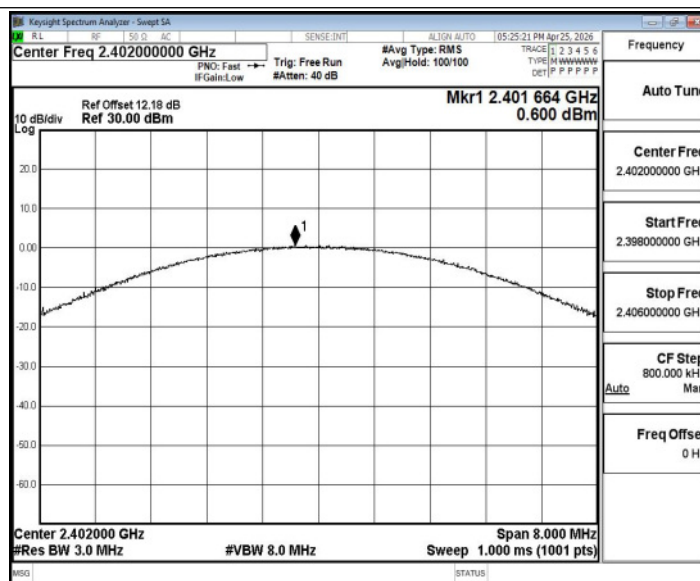
2DH5_Ant1_2441



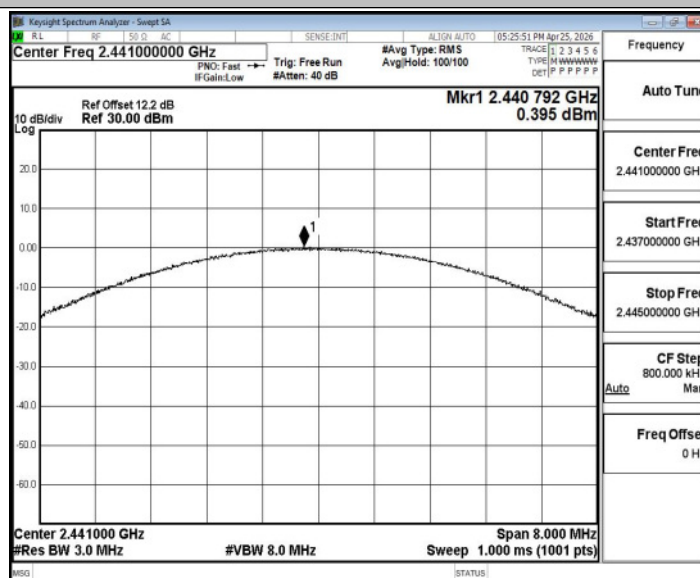
2DH5_Ant1_2480



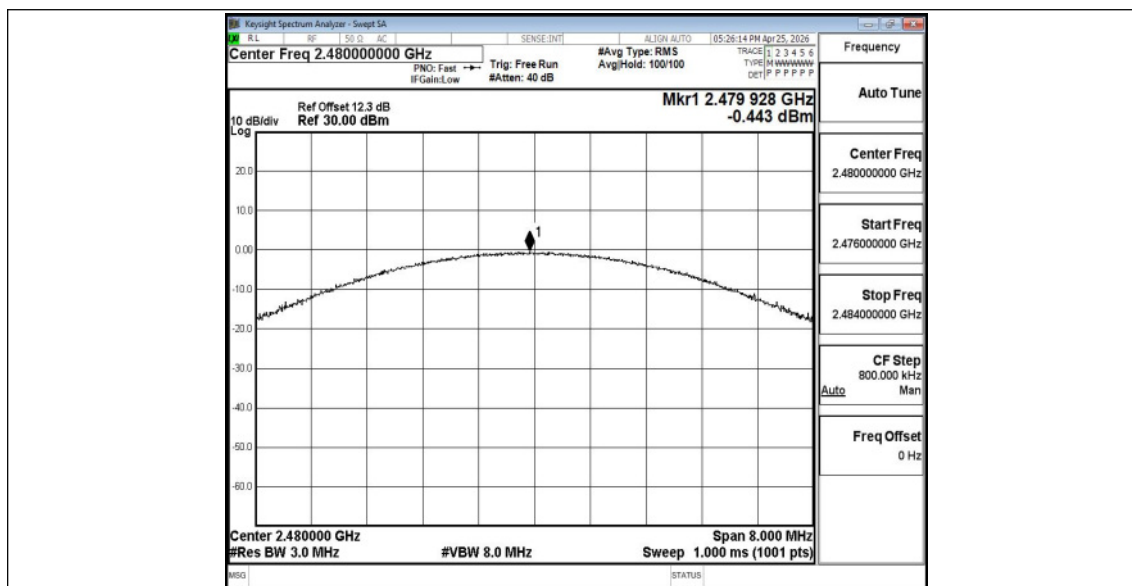
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

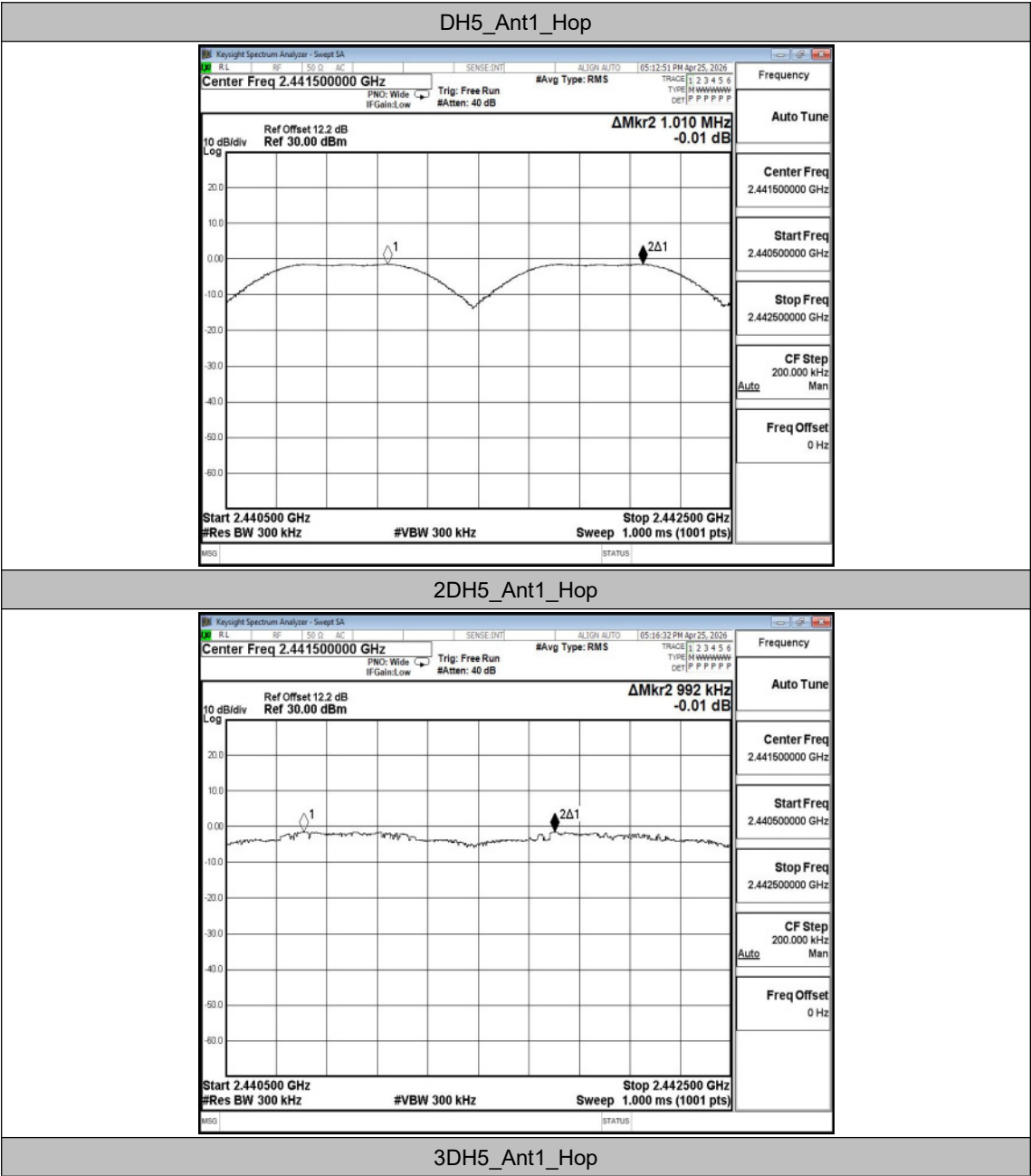


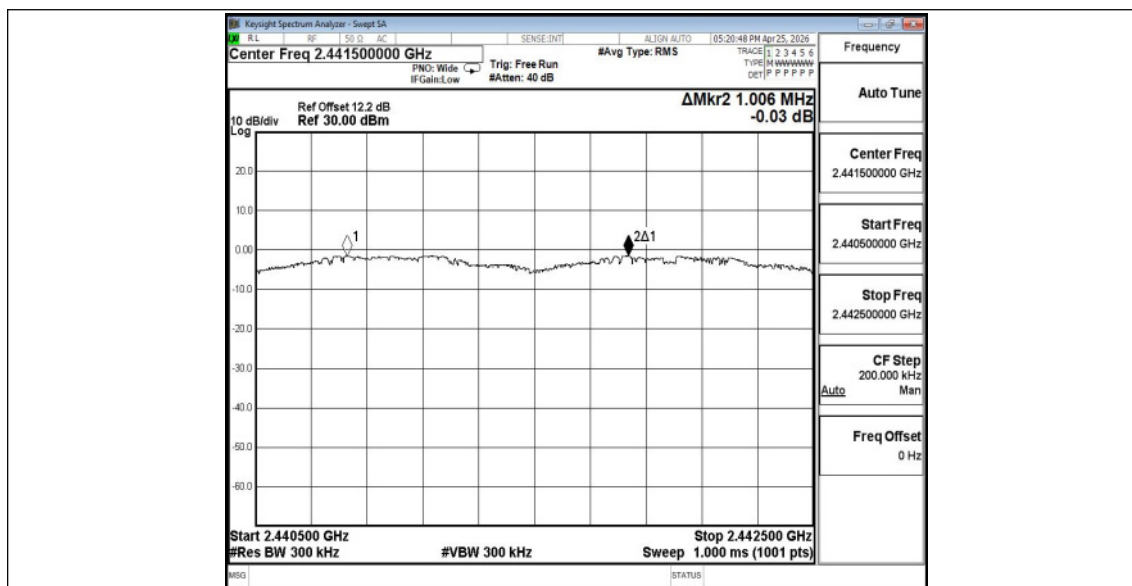
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.01	≥ 0.674	PASS
2DH5	Ant1	Hop	0.992	≥ 0.880	PASS
3DH5	Ant1	Hop	1.006	≥ 0.868	PASS

Test Graphs



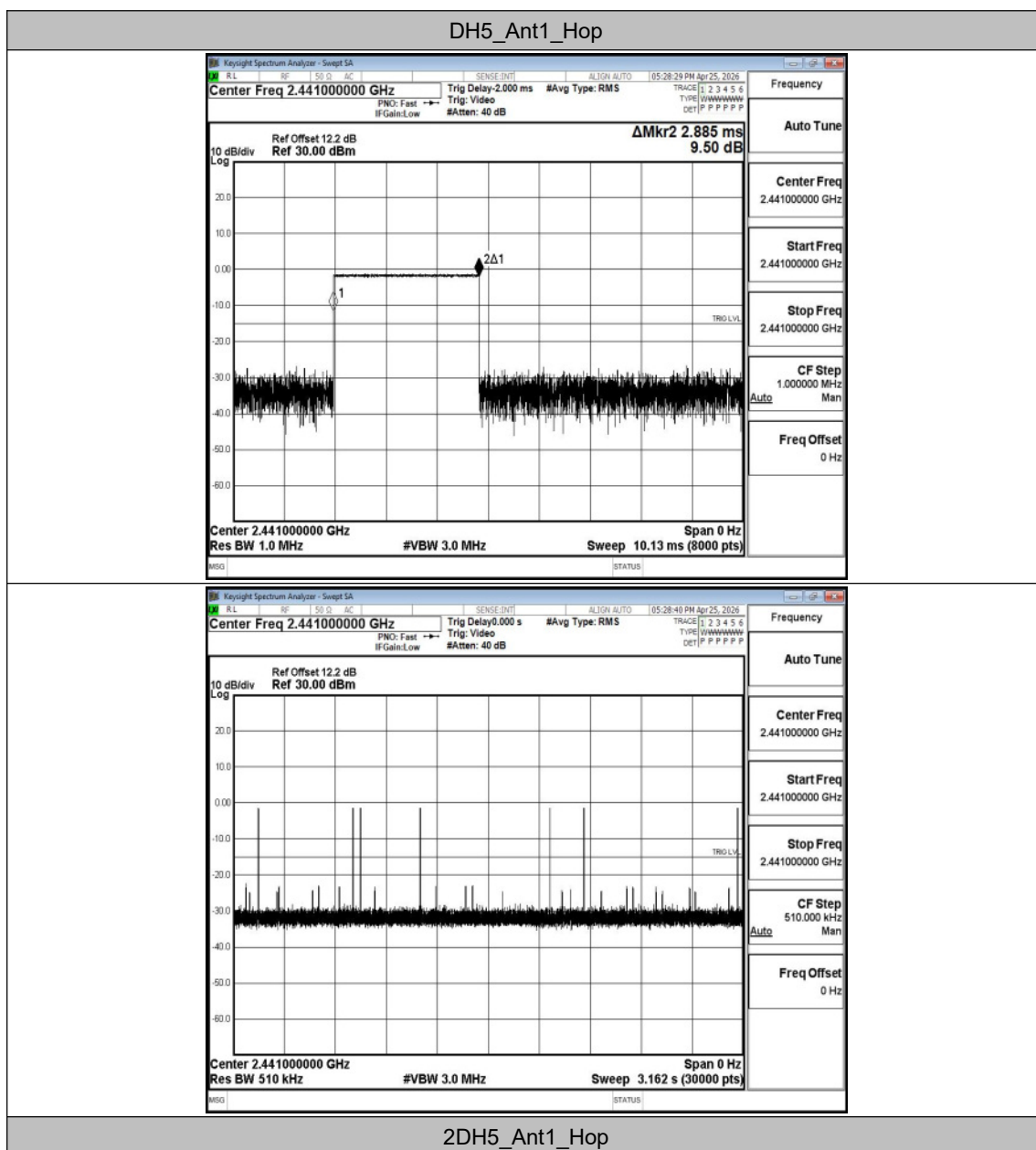


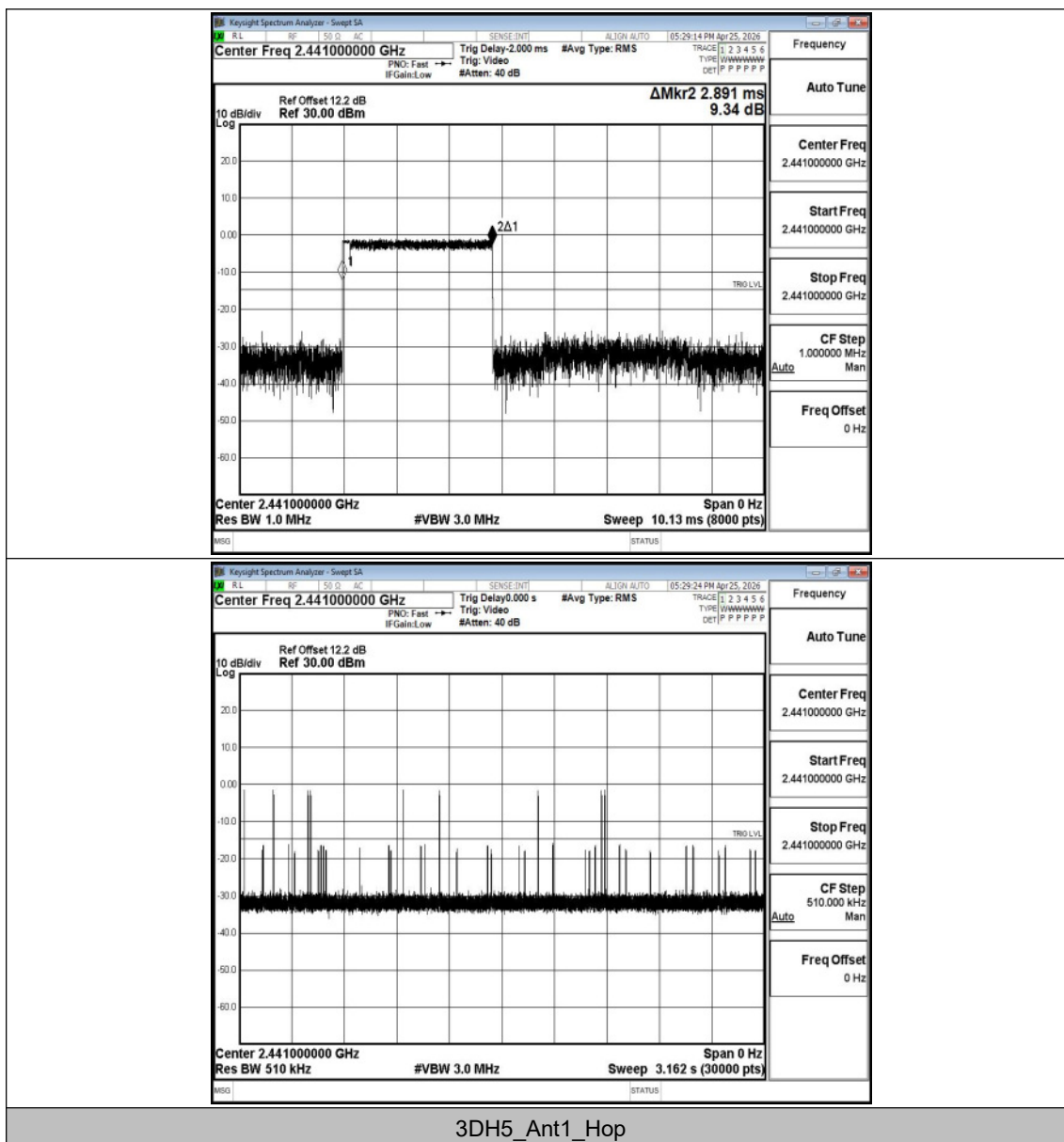
A.4 Time of occupancy

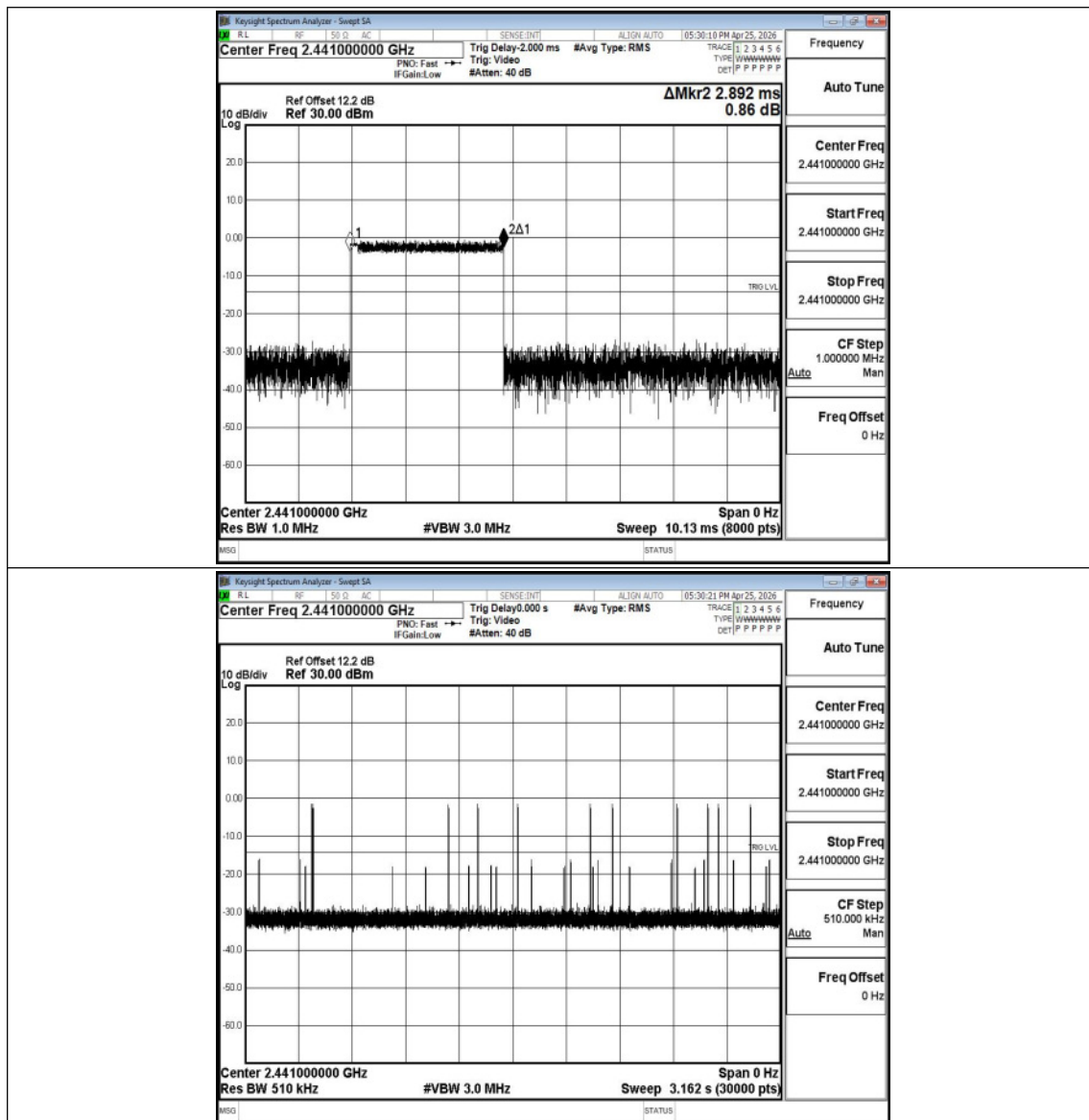
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	80	0.231	≤0.4	PASS
2DH5	Ant1	Hop	2.891	100	0.289	≤0.4	PASS
3DH5	Ant1	Hop	2.892	120	0.347	≤0.4	PASS

Test Graphs





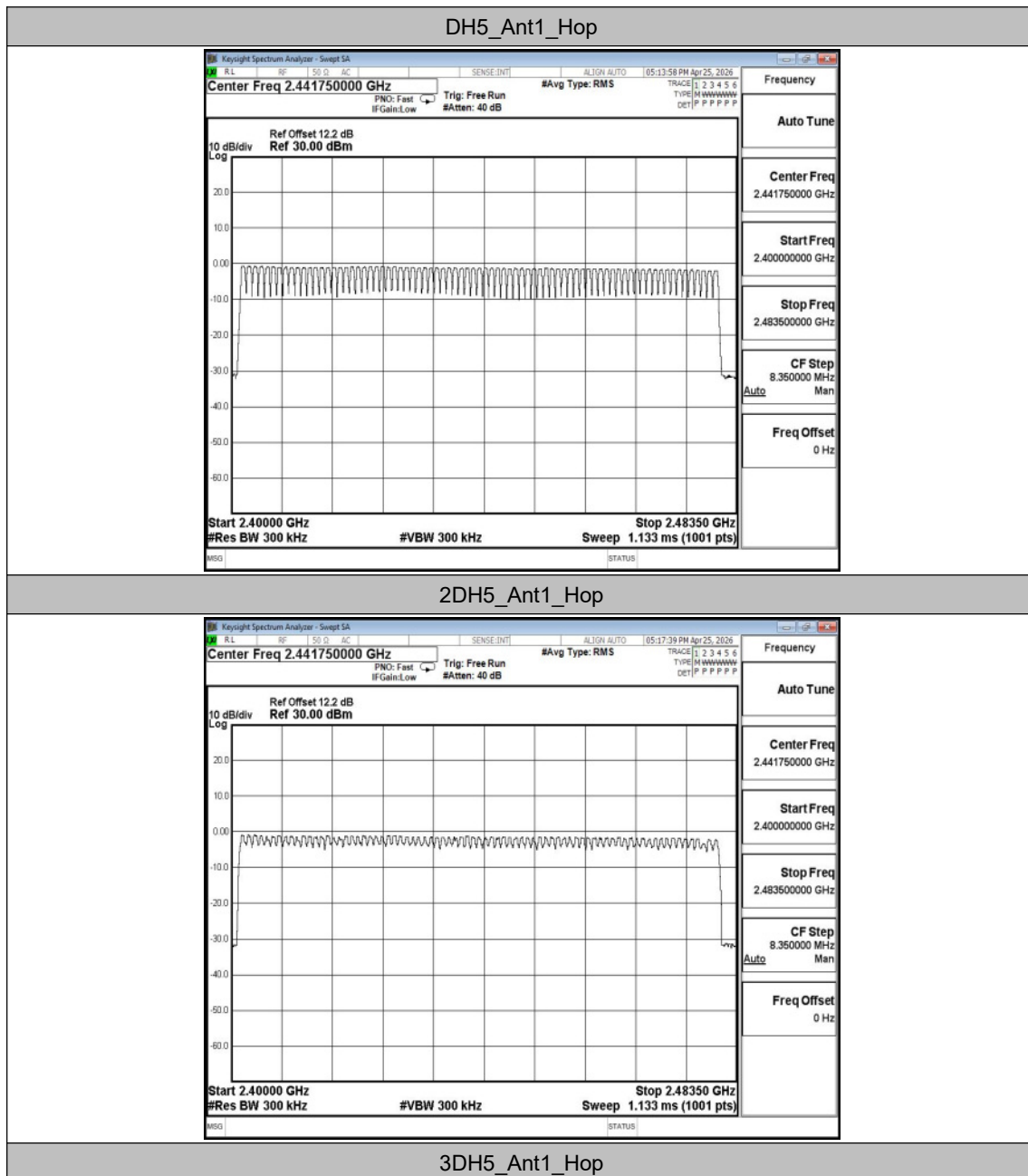


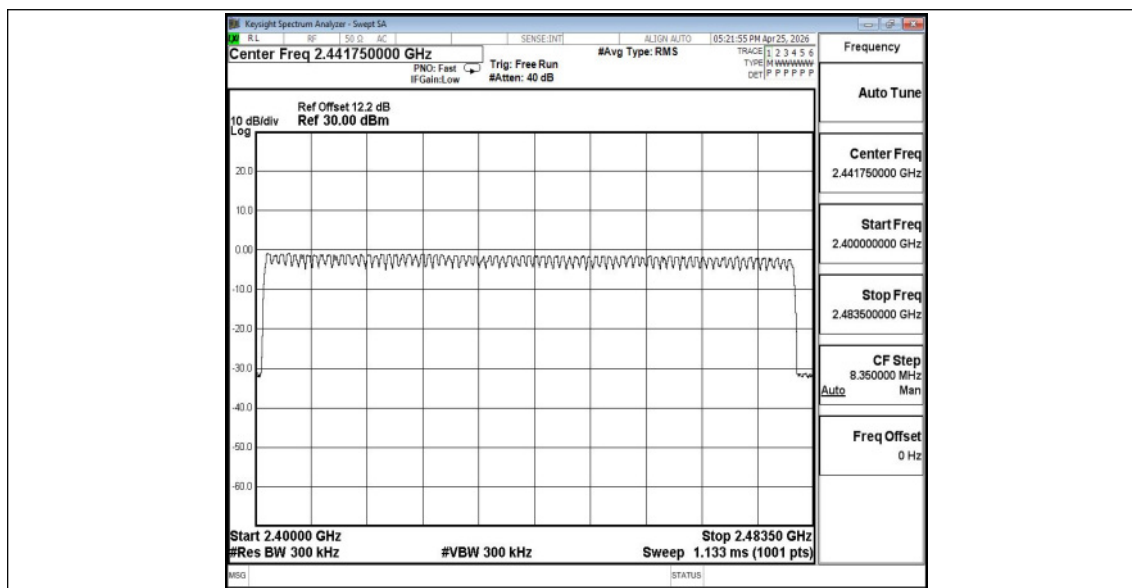
A.5 Number of hopping channels

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



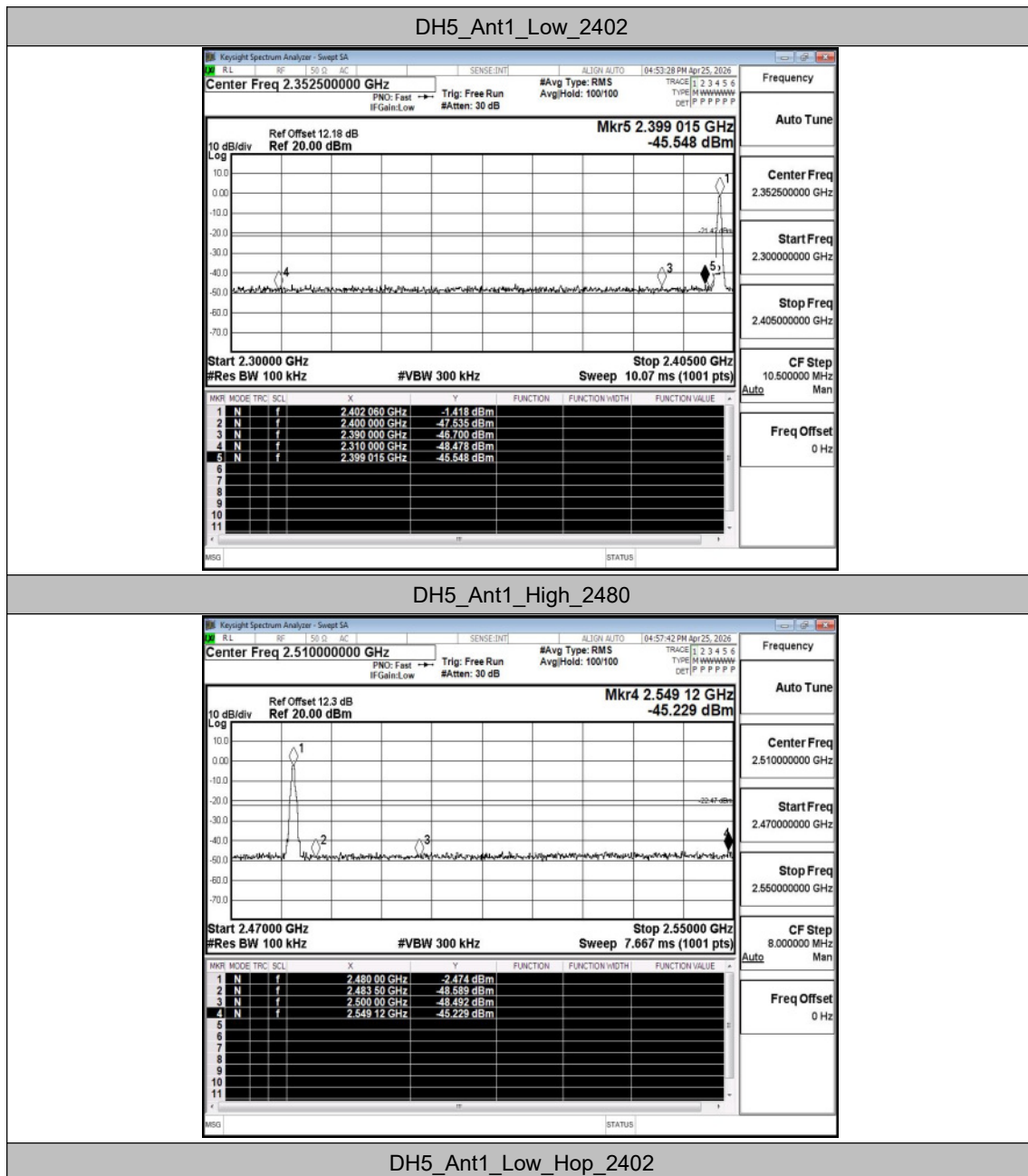


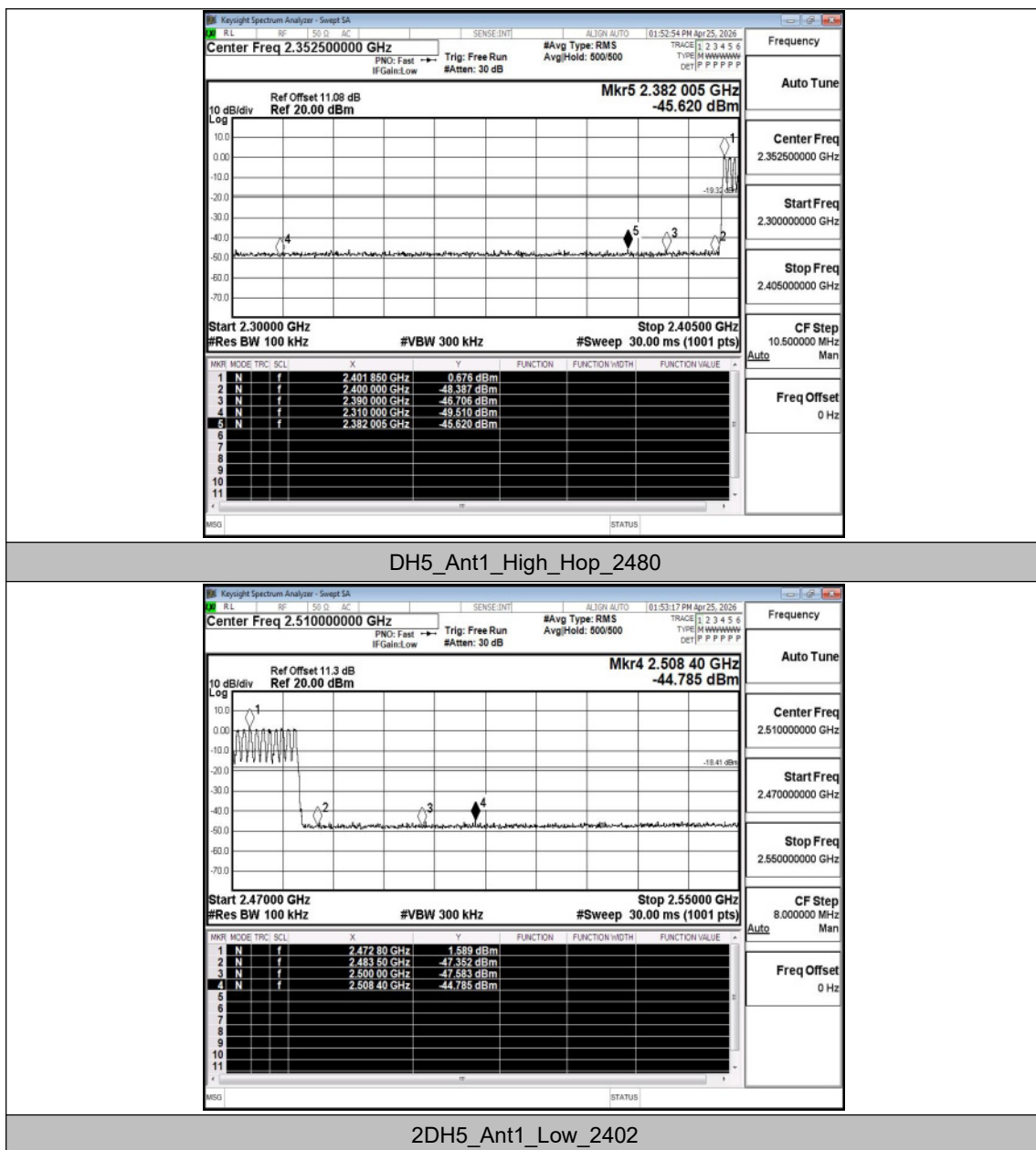
A.6 Band edge measurements

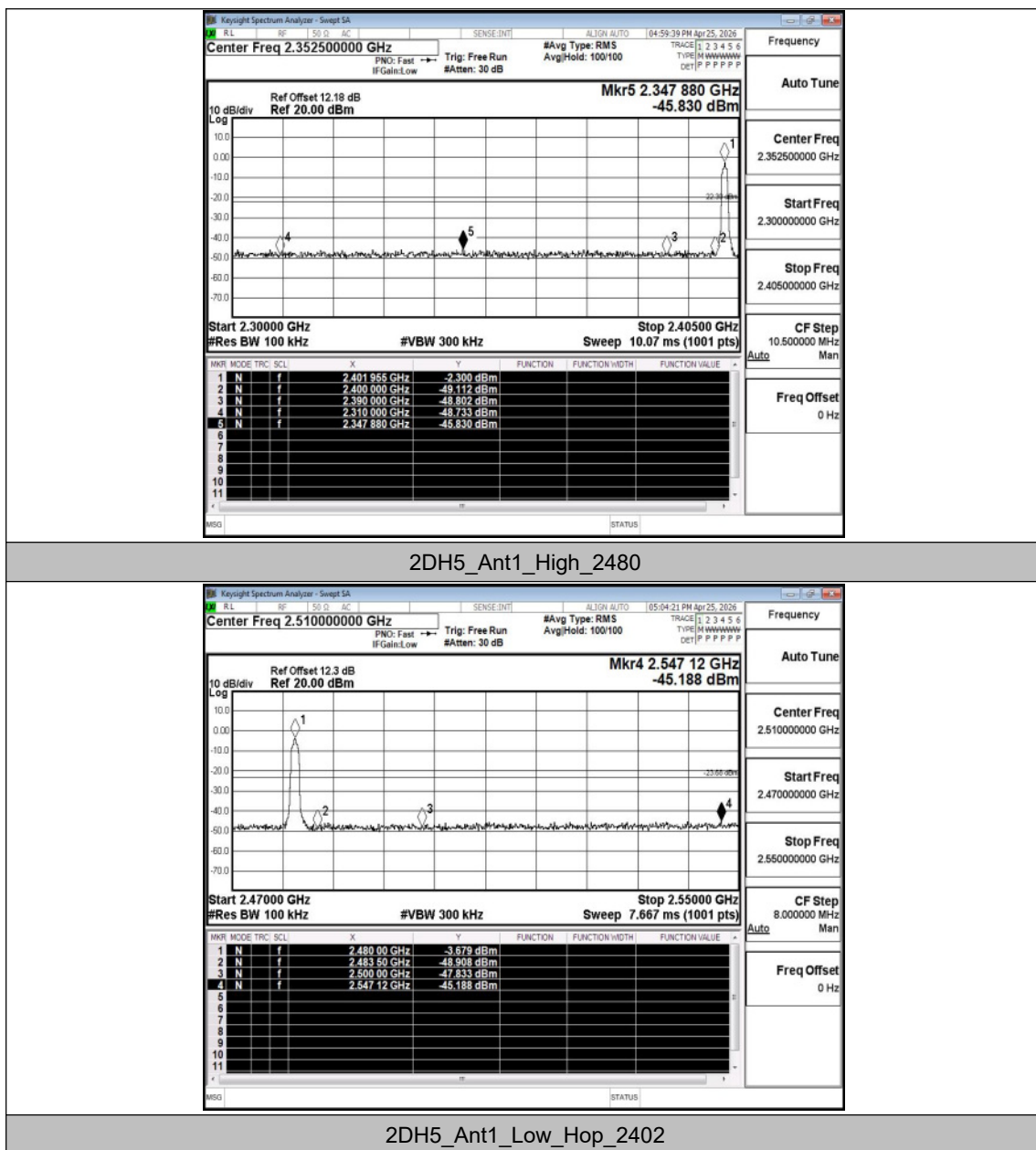
Test Result

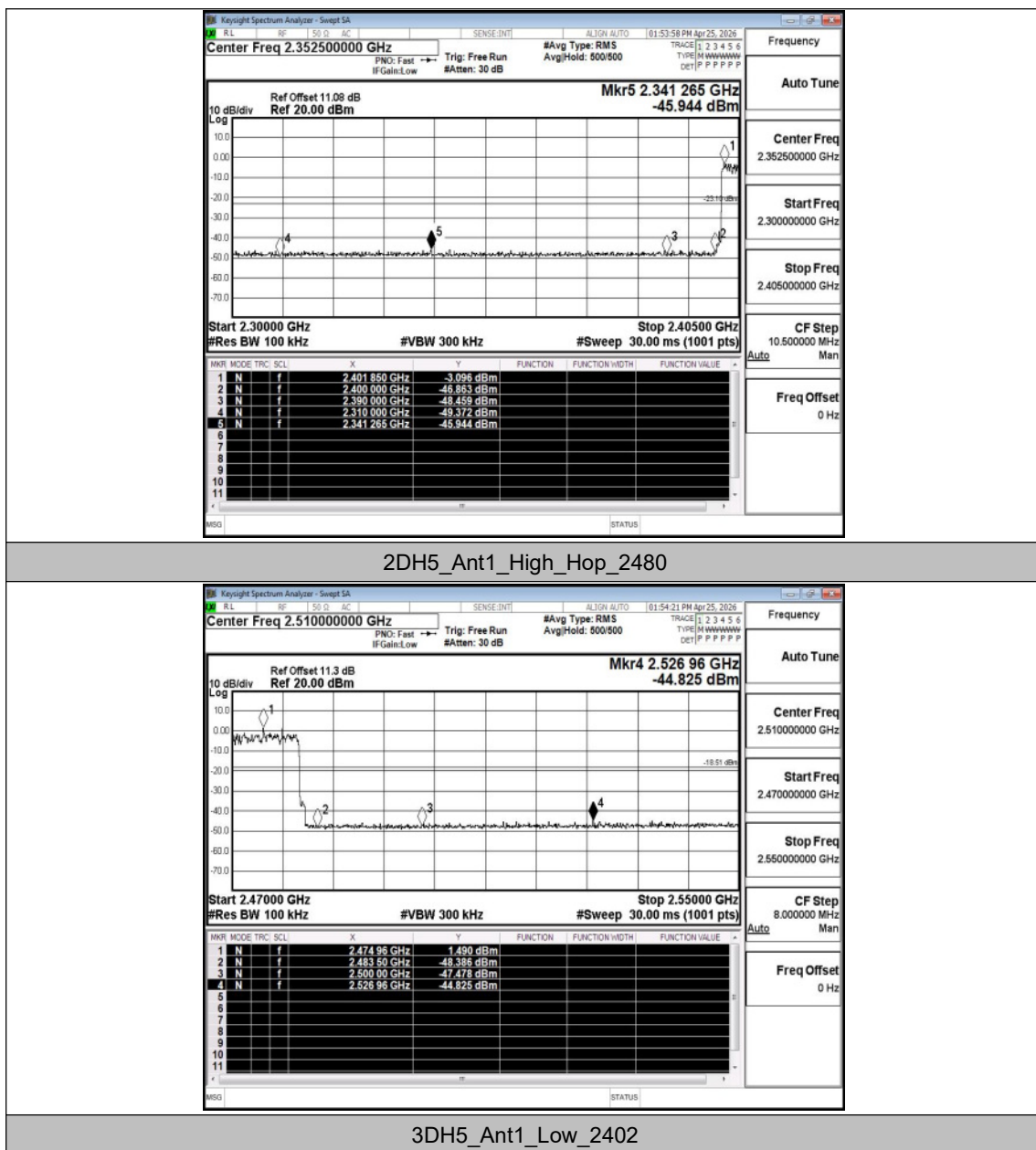
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.42	-45.55	≤ -21.42	PASS
		High	2480	-2.47	-45.23	≤ -22.47	PASS
		Low	Hop_2402	0.68	-45.62	≤ -19.32	PASS
		High	Hop_2480	1.59	-44.79	≤ -18.41	PASS
2DH5	Ant1	Low	2402	-2.30	-45.83	≤ -22.3	PASS
		High	2480	-3.68	-45.19	≤ -23.68	PASS
		Low	Hop_2402	-3.10	-45.94	≤ -23.1	PASS
		High	Hop_2480	1.49	-44.83	≤ -18.51	PASS
3DH5	Ant1	Low	2402	-2.11	-45.72	≤ -22.11	PASS
		High	2480	-2.28	-44.62	≤ -22.28	PASS
		Low	Hop_2402	-0.87	-45.53	≤ -20.87	PASS
		High	Hop_2480	1.55	-45.22	≤ -18.45	PASS

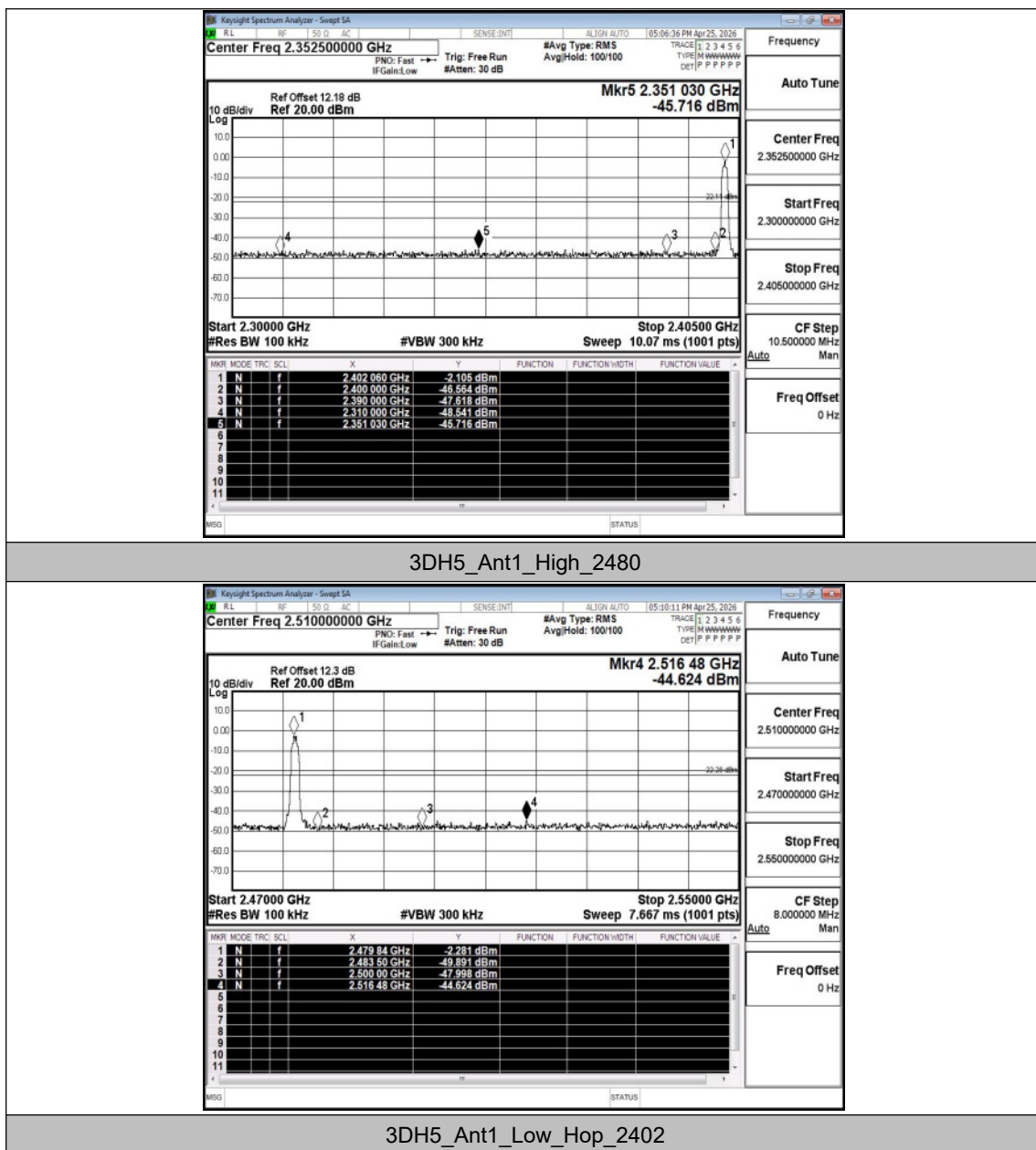
Test Graphs

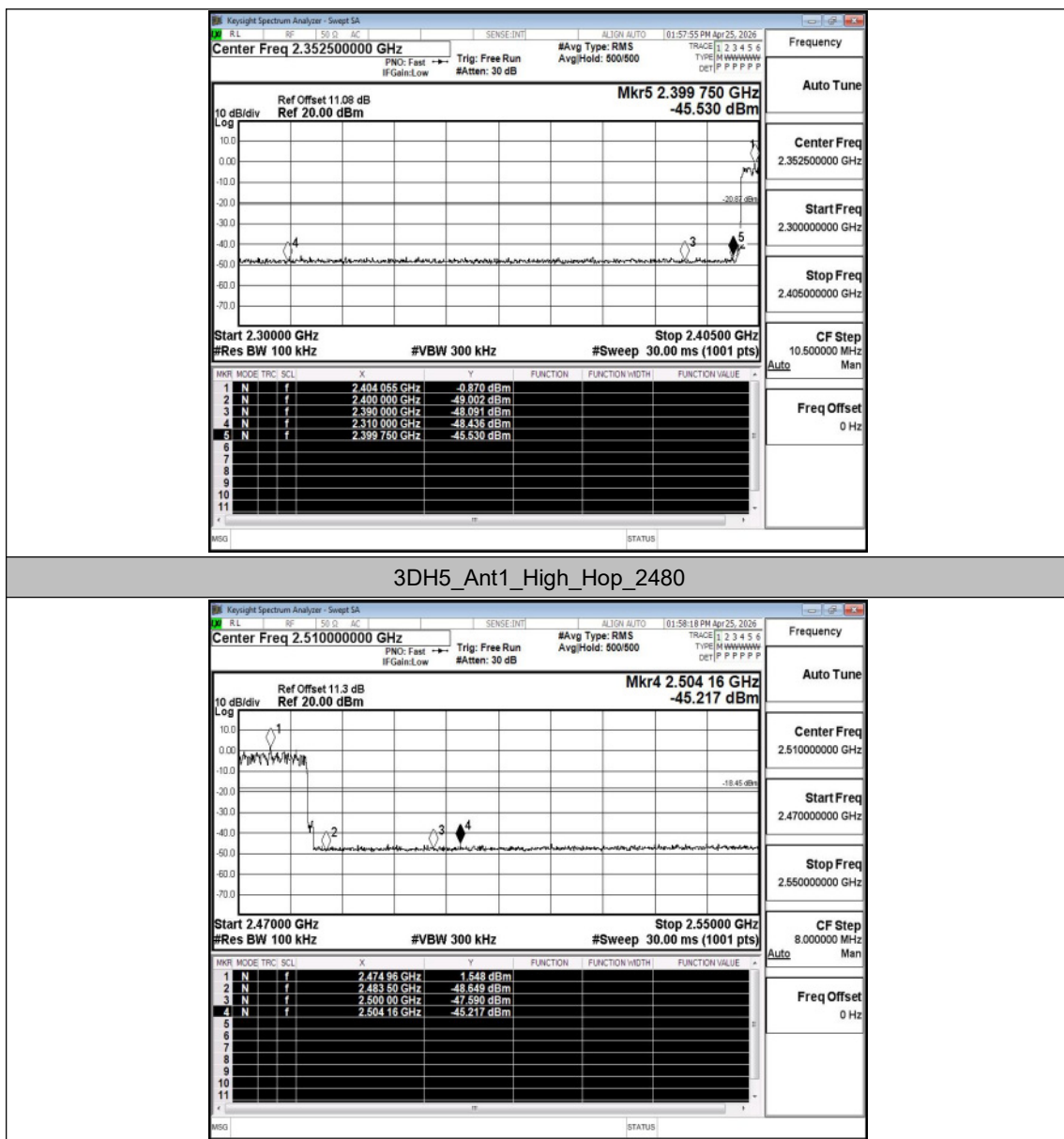










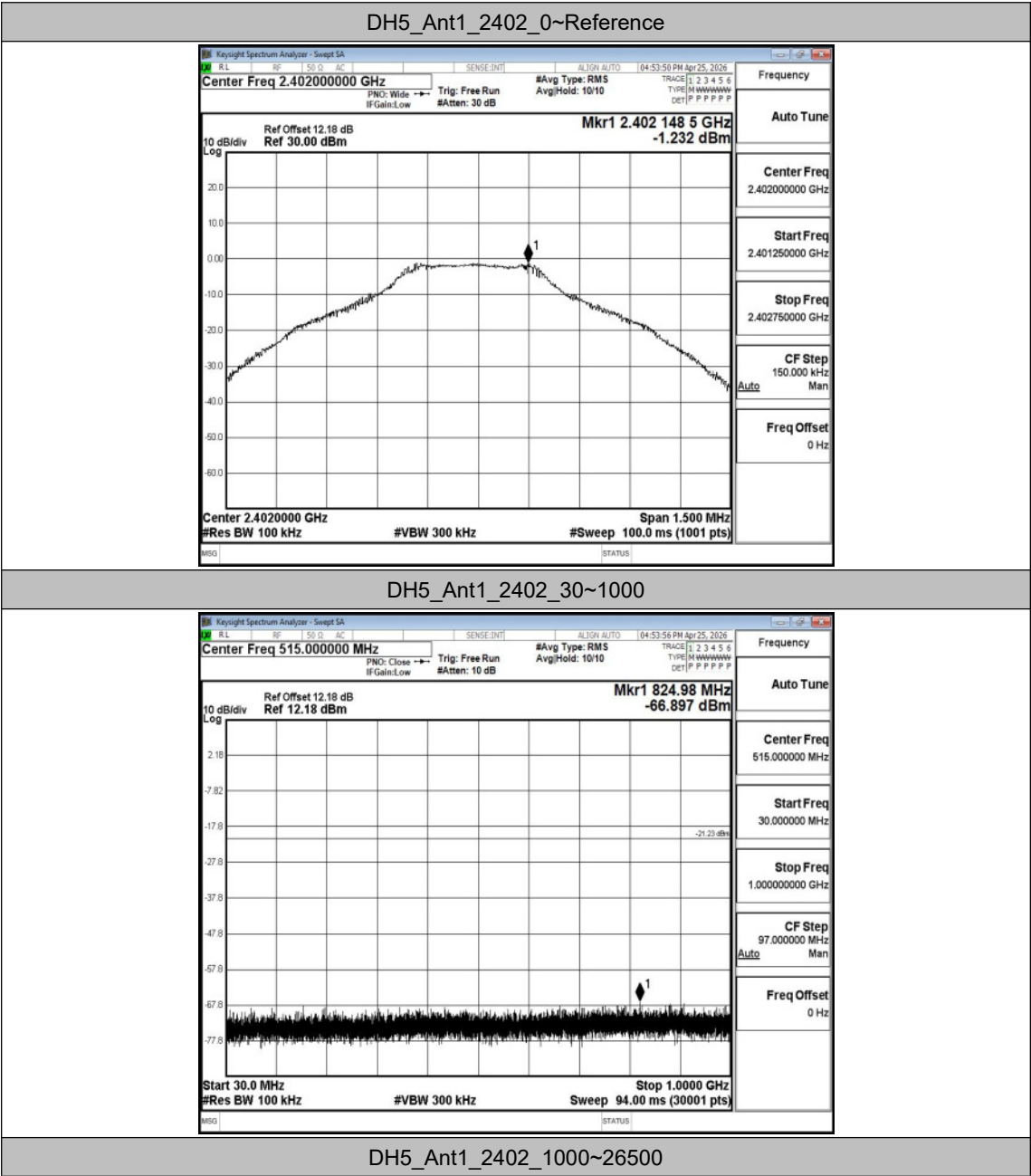


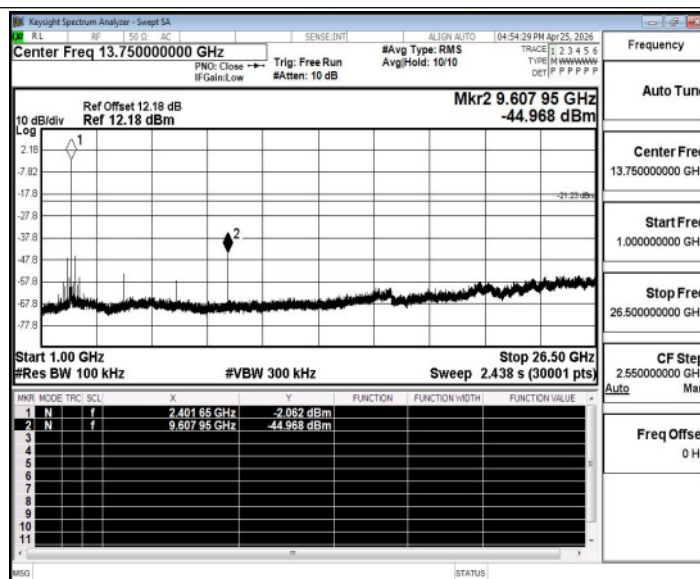
A.7 Conducted Spurious Emission

Test Result

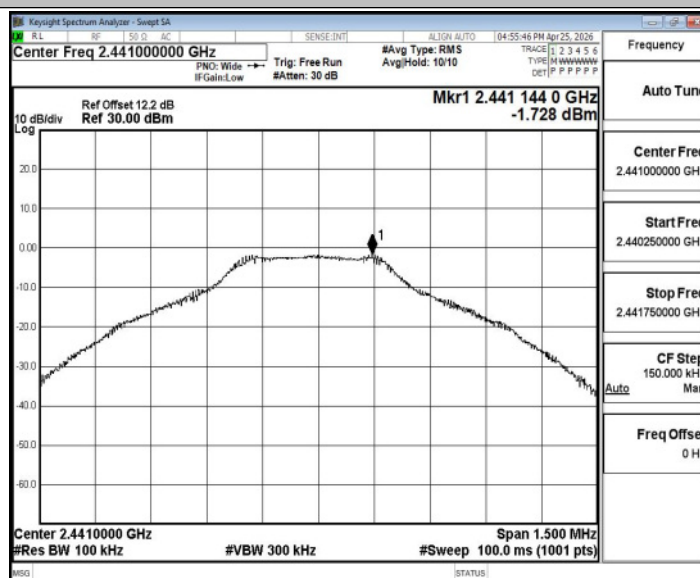
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.23	-1.23	---	PASS
			30~1000	-1.23	-66.9	≤-21.23	PASS
			1000~26500	-1.23	-44.97	≤-21.23	PASS
		2441	Reference	-1.73	-1.73	---	PASS
			30~1000	-1.73	-67.37	≤-21.73	PASS
			1000~26500	-1.73	-44.89	≤-21.73	PASS
		2480	Reference	-2.33	-2.33	---	PASS
			30~1000	-2.33	-67.15	≤-22.33	PASS
			1000~26500	-2.33	-45.08	≤-22.33	PASS
2DH5	Ant1	2402	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-67.15	≤-21.21	PASS
			1000~26500	-1.21	-44.56	≤-21.21	PASS
		2441	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-67.16	≤-21.71	PASS
			1000~26500	-1.71	-45.04	≤-21.71	PASS
		2480	Reference	-2.30	-2.30	---	PASS
			30~1000	-2.30	-66.53	≤-22.3	PASS
			1000~26500	-2.30	-45.2	≤-22.3	PASS
3DH5	Ant1	2402	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-67.34	≤-21.21	PASS
			1000~26500	-1.21	-44.48	≤-21.21	PASS
		2441	Reference	-1.73	-1.73	---	PASS
			30~1000	-1.73	-67.28	≤-21.73	PASS
			1000~26500	-1.73	-44.4	≤-21.73	PASS
		2480	Reference	-2.30	-2.30	---	PASS
			30~1000	-2.30	-67.06	≤-22.3	PASS
			1000~26500	-2.30	-44.96	≤-22.3	PASS

Test Graphs

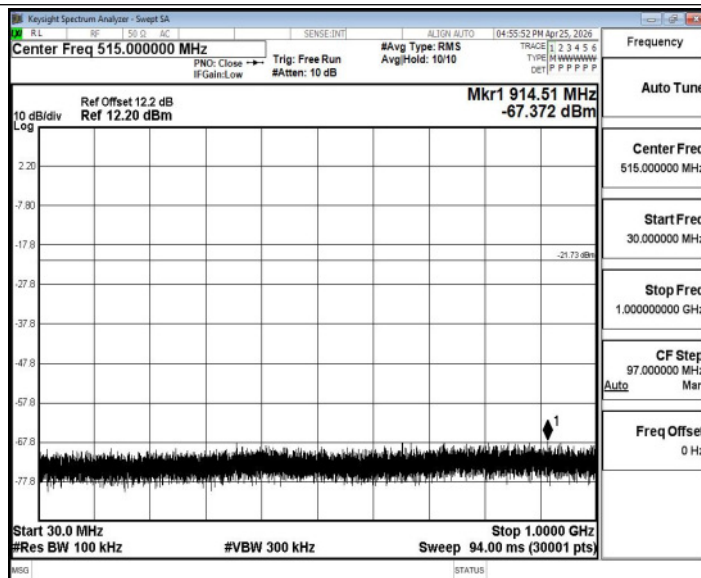




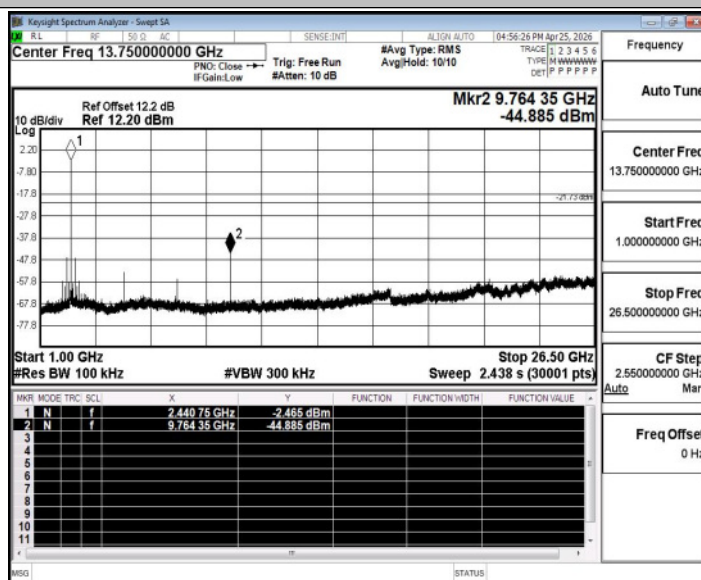
DH5_Ant1_2441_0~Reference



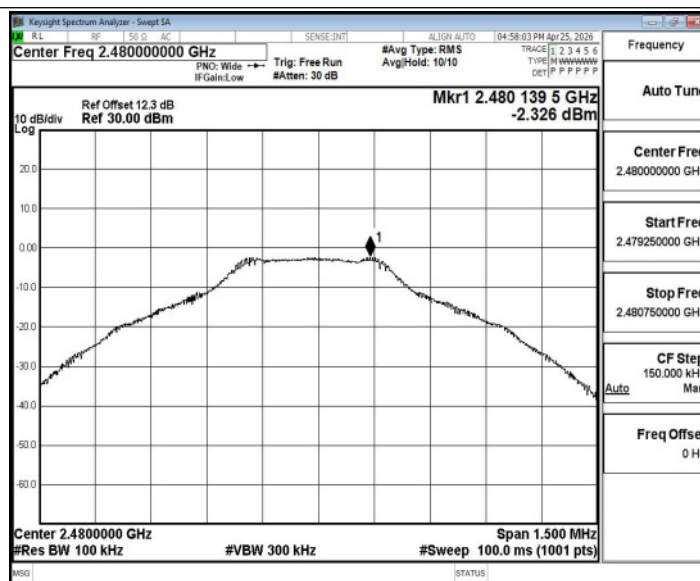
DH5_Ant1_2441_30~1000



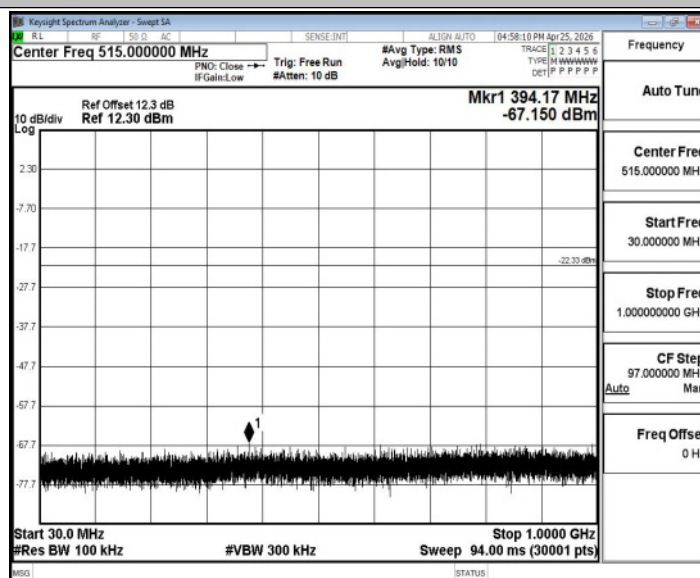
DH5_Ant1_2441_1000~26500



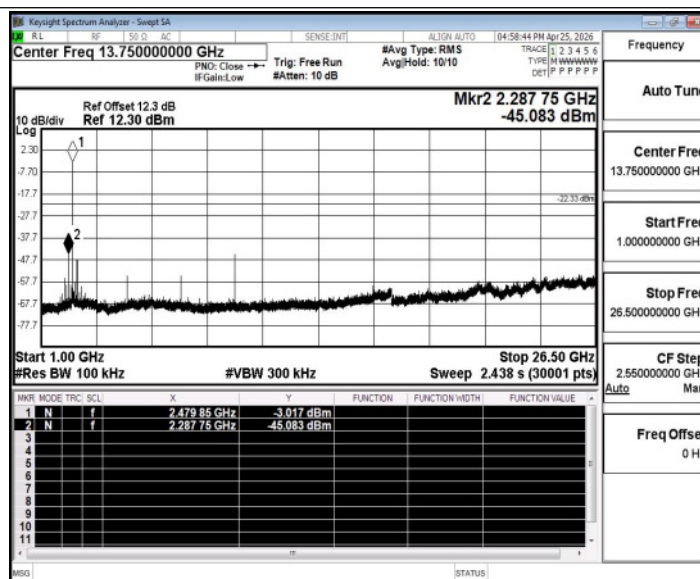
DH5_Ant1_2480_0~Reference



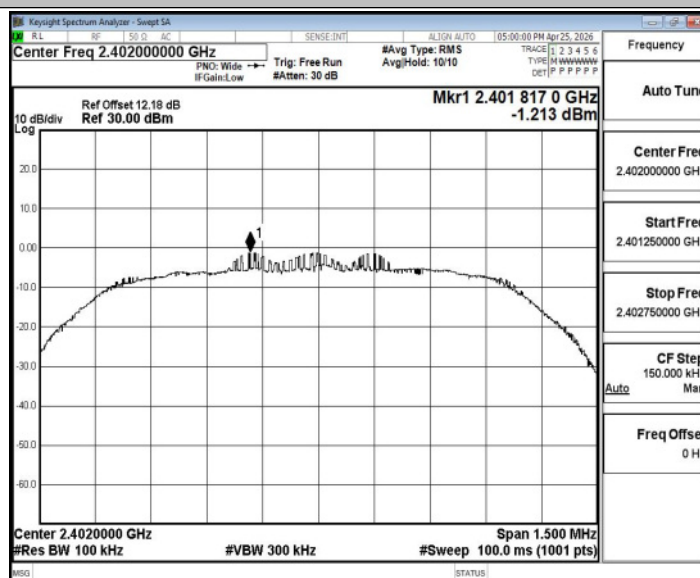
DH5_Ant1_2480_30~1000



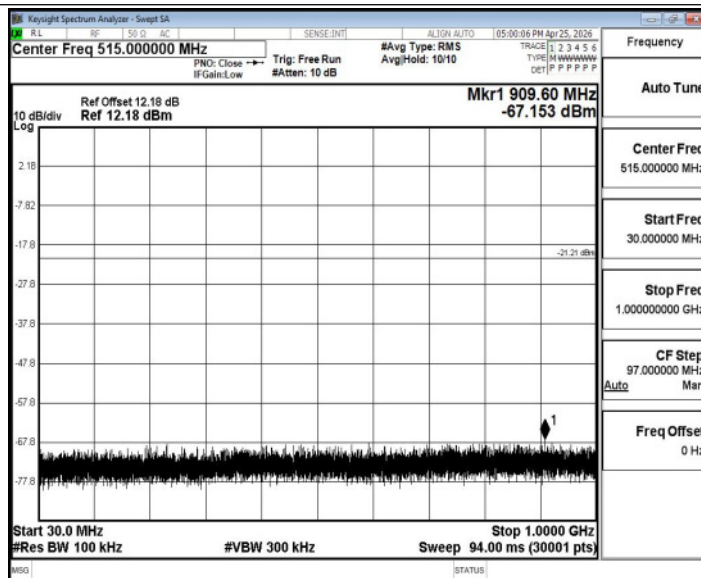
DH5_Ant1_2480_1000~26500



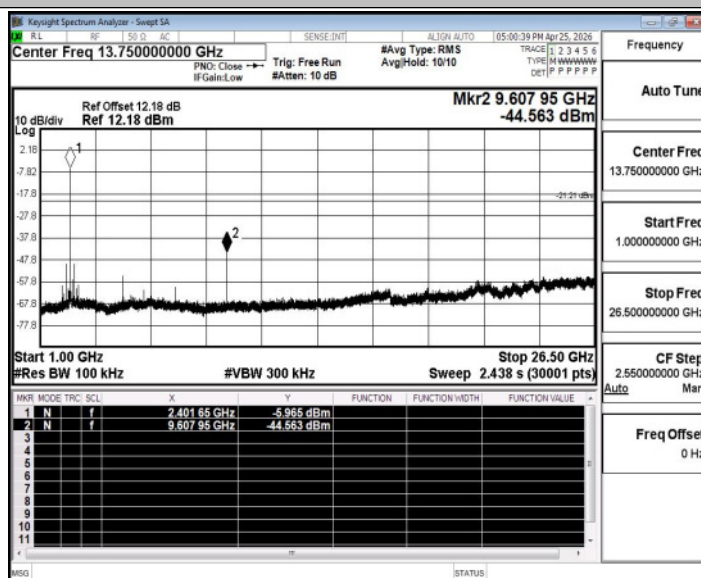
2DH5_Ant1_2402_0~Reference



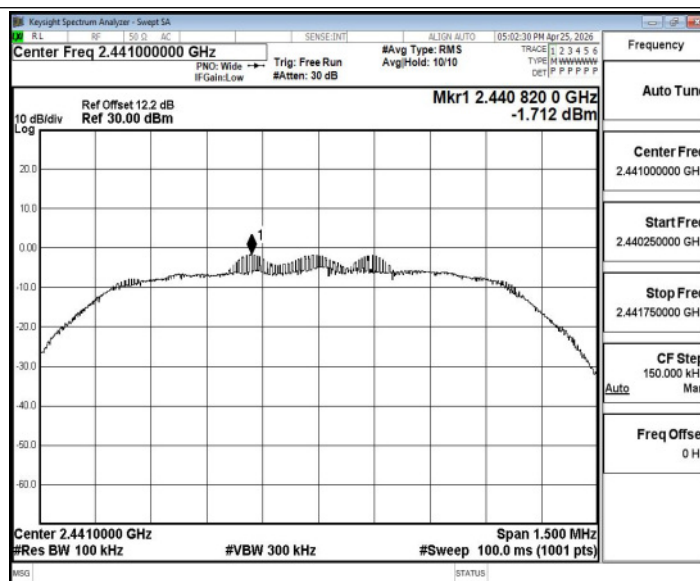
2DH5_Ant1_2402_30~1000



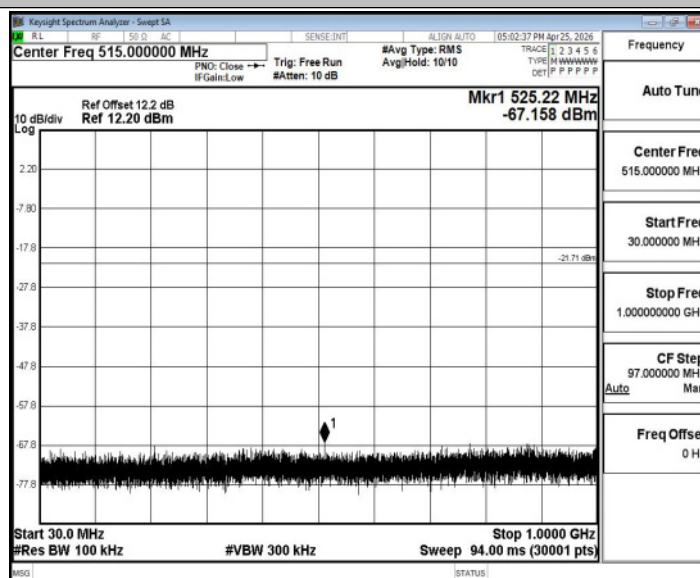
2DH5_Ant1_2402_1000~26500



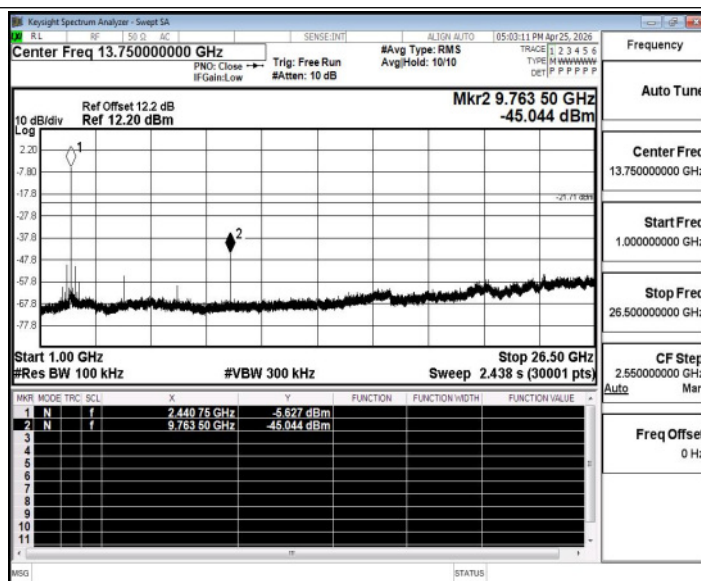
2DH5_Ant1_2441_0~Reference



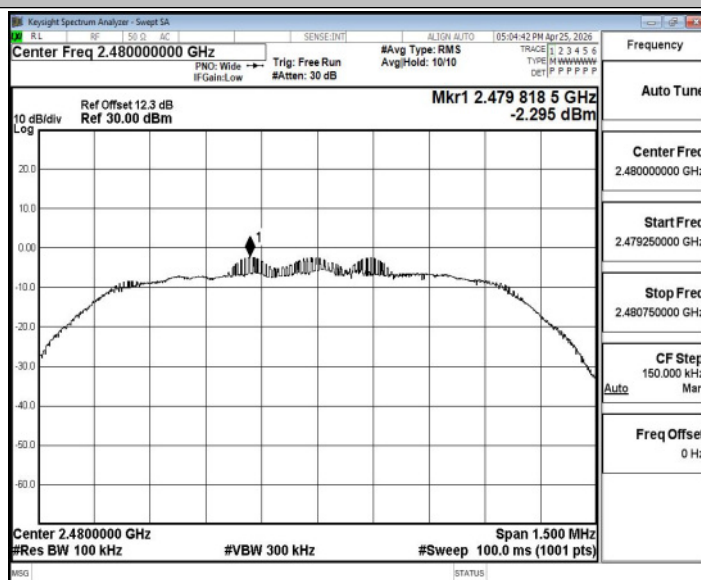
2DH5_Ant1_2441_30~1000



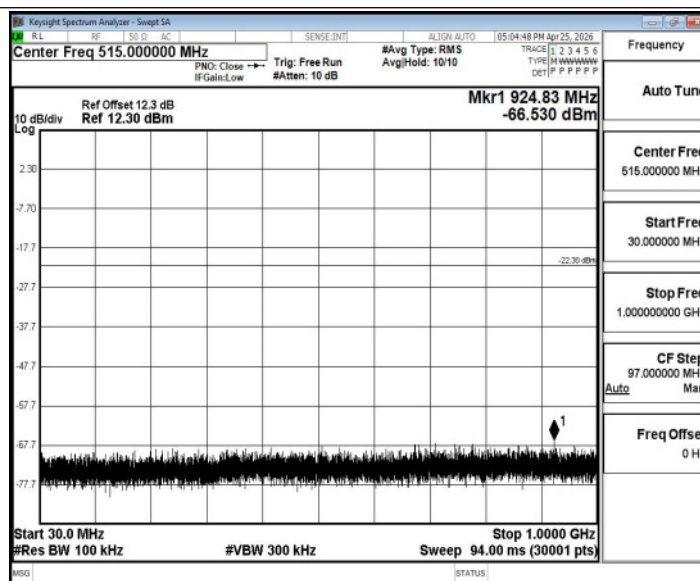
2DH5_Ant1_2441_1000~26500



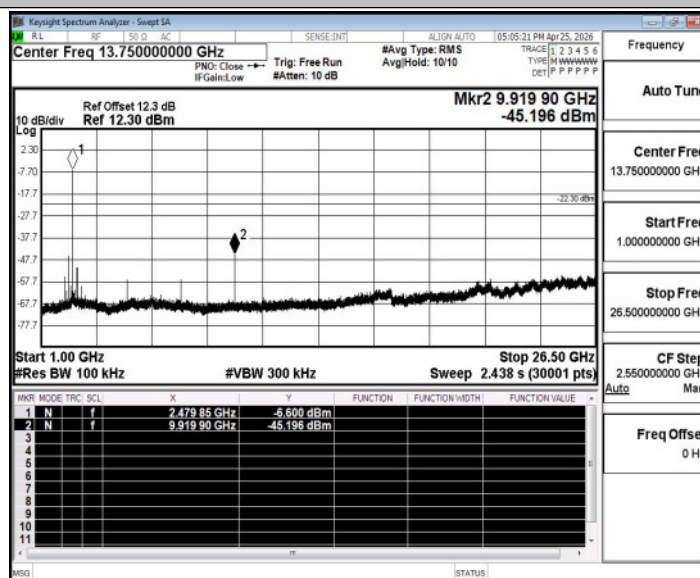
2DH5_Ant1_2480_0~Reference



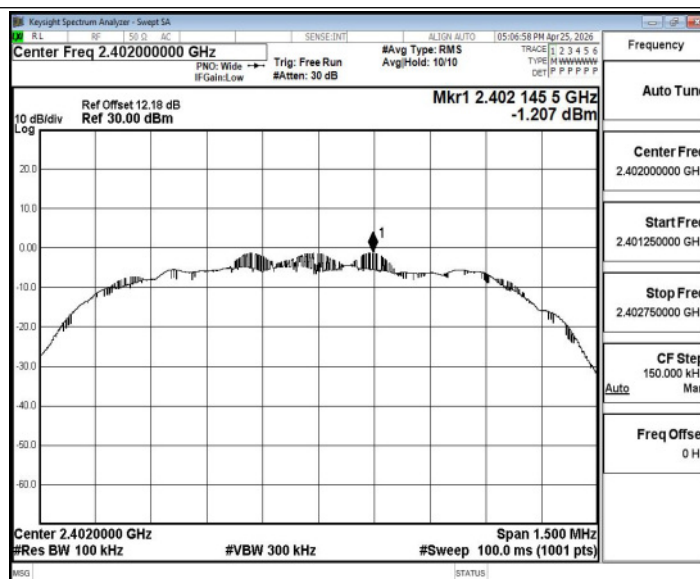
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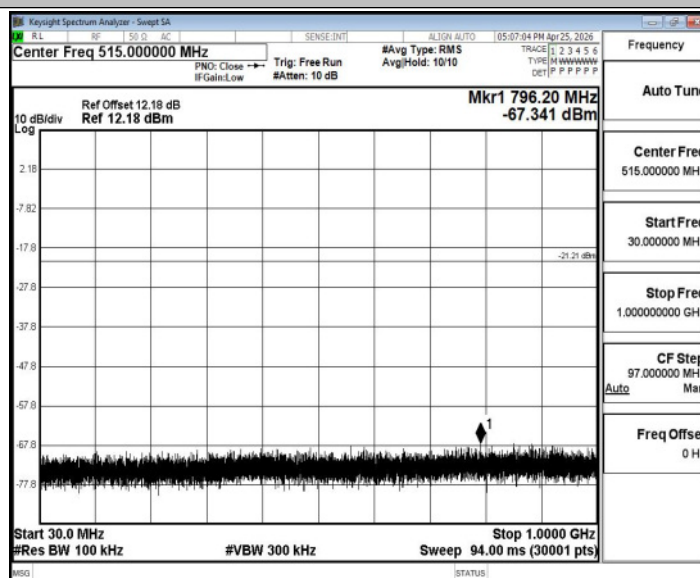
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500