

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: MARTINI SPEAKER
Test Model: MRTSPK

Environmental Conditions

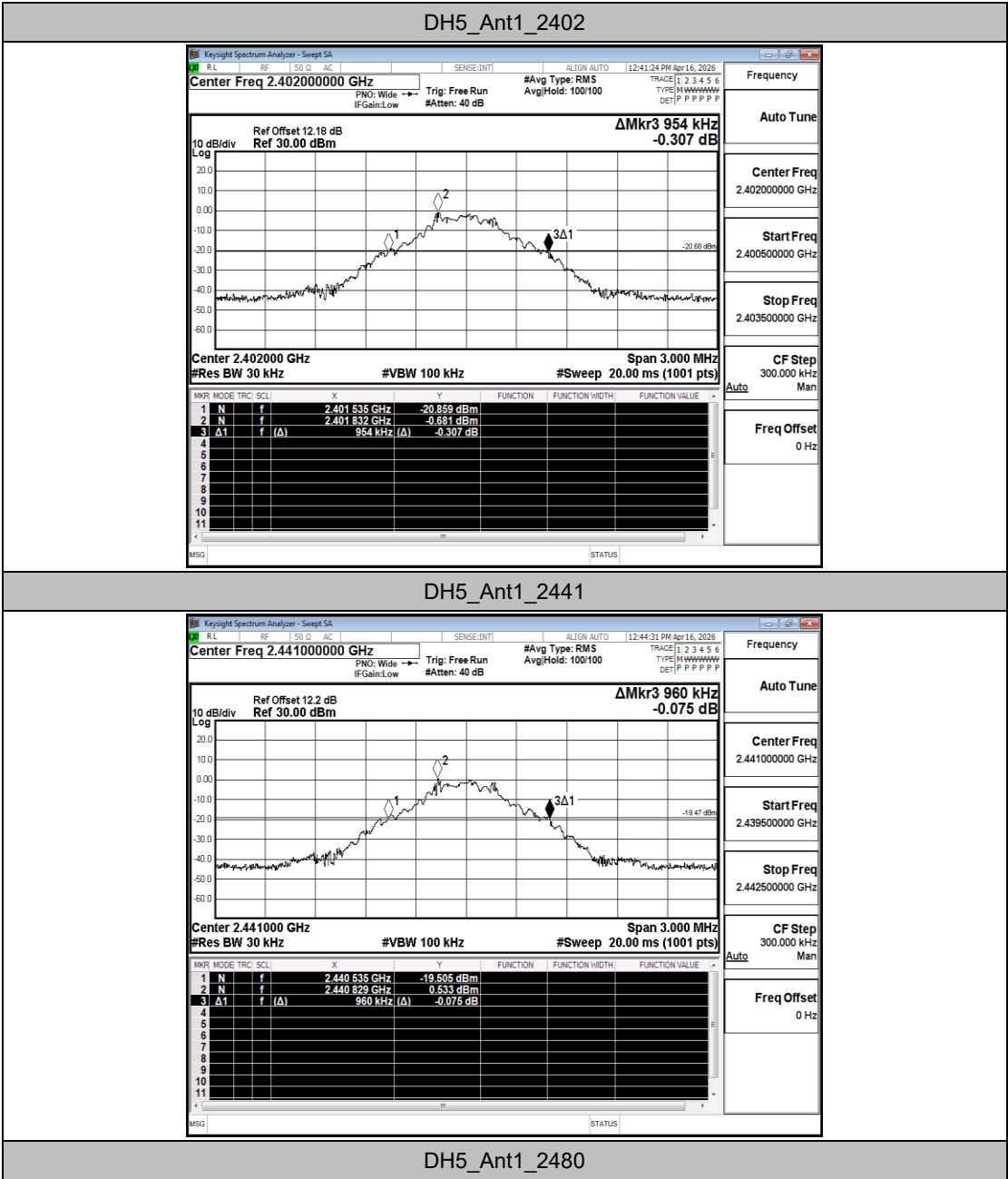
Temperature:	24.1°C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

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	2401.535	2402.489	---	---
		2441	0.960	2440.535	2441.495	---	---
		2480	0.954	2479.532	2480.486	---	---
2DH5	Ant1	2402	1.287	2401.361	2402.648	---	---
		2441	1.296	2440.355	2441.651	---	---
		2480	1.287	2479.361	2480.648	---	---
3DH5	Ant1	2402	1.299	2401.346	2402.645	---	---
		2441	1.302	2440.343	2441.645	---	---
		2480	1.305	2479.343	2480.648	---	---

Test Graphs



DH5_Ant1_2441

KeySight Spectrum Analyzer - Swept SA

RL

RF

150.0 AC

SENSE:INT

ALIGN: AUTO

12:44:31 PM Apr 16, 2026

Center Freq 2.441000000 GHz

PNO: Wide

IFGain: Low

Trig: Free Run

#Atten: 40 dB

#Avg Type: RMS

AvgHold: 100/100

TRACE 1 2 3 4 5 6

TYPE: M W W W W W W W

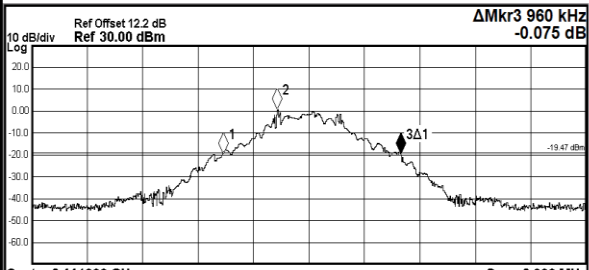
DET: P P P P P P P

Ref Offset 12.2 dB

Ref 30.00 dBm

ΔMkr3 960 kHz

-0.075 dB



Center 2.441000 GHz

#Res BW 30 kHz

#VBW 100 kHz

Span 3.000 MHz

#Sweep 20.00 ms (1001 pts)

MSG

STATUS

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.439500000 GHz

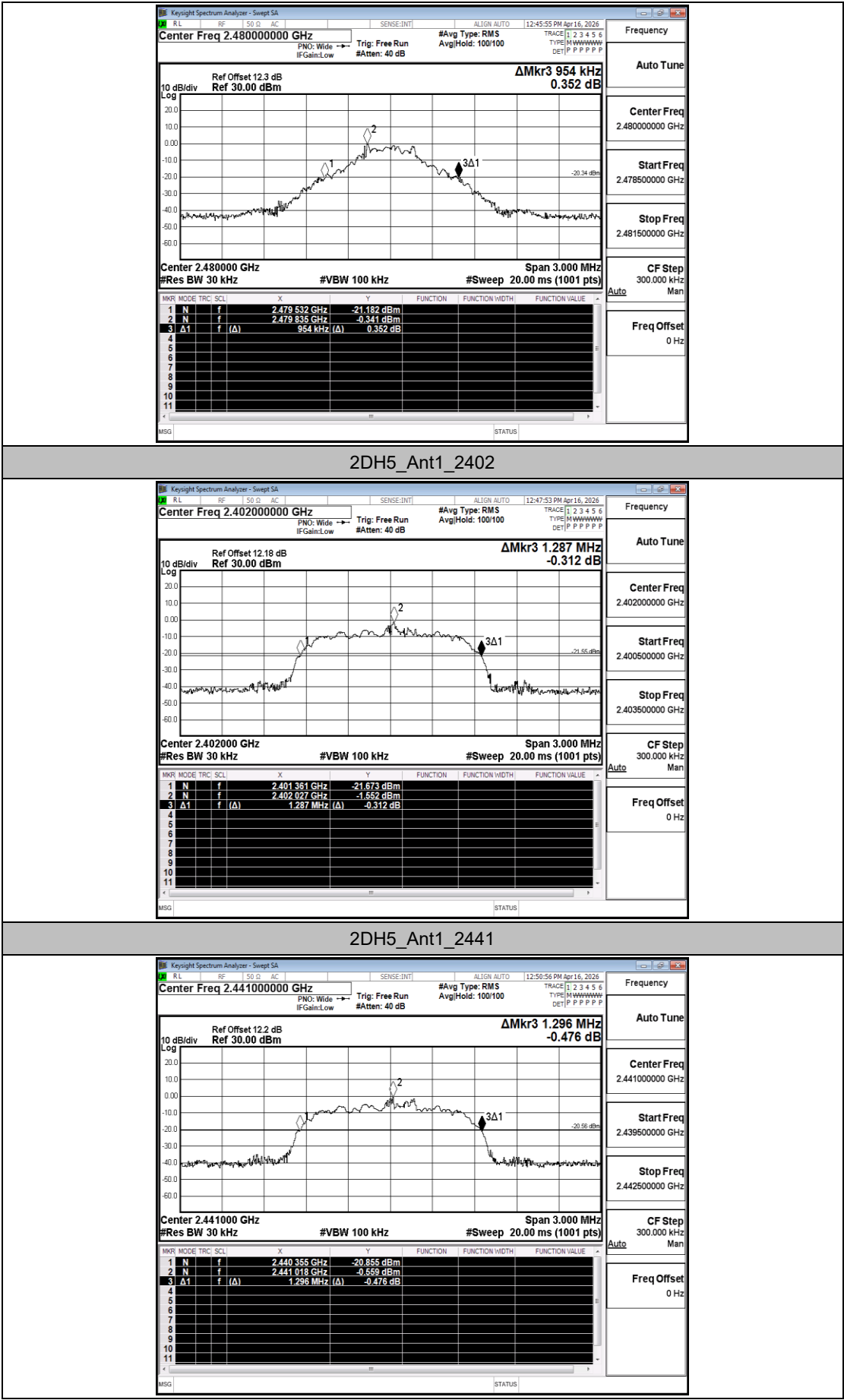
Stop Freq
2.442500000 GHz

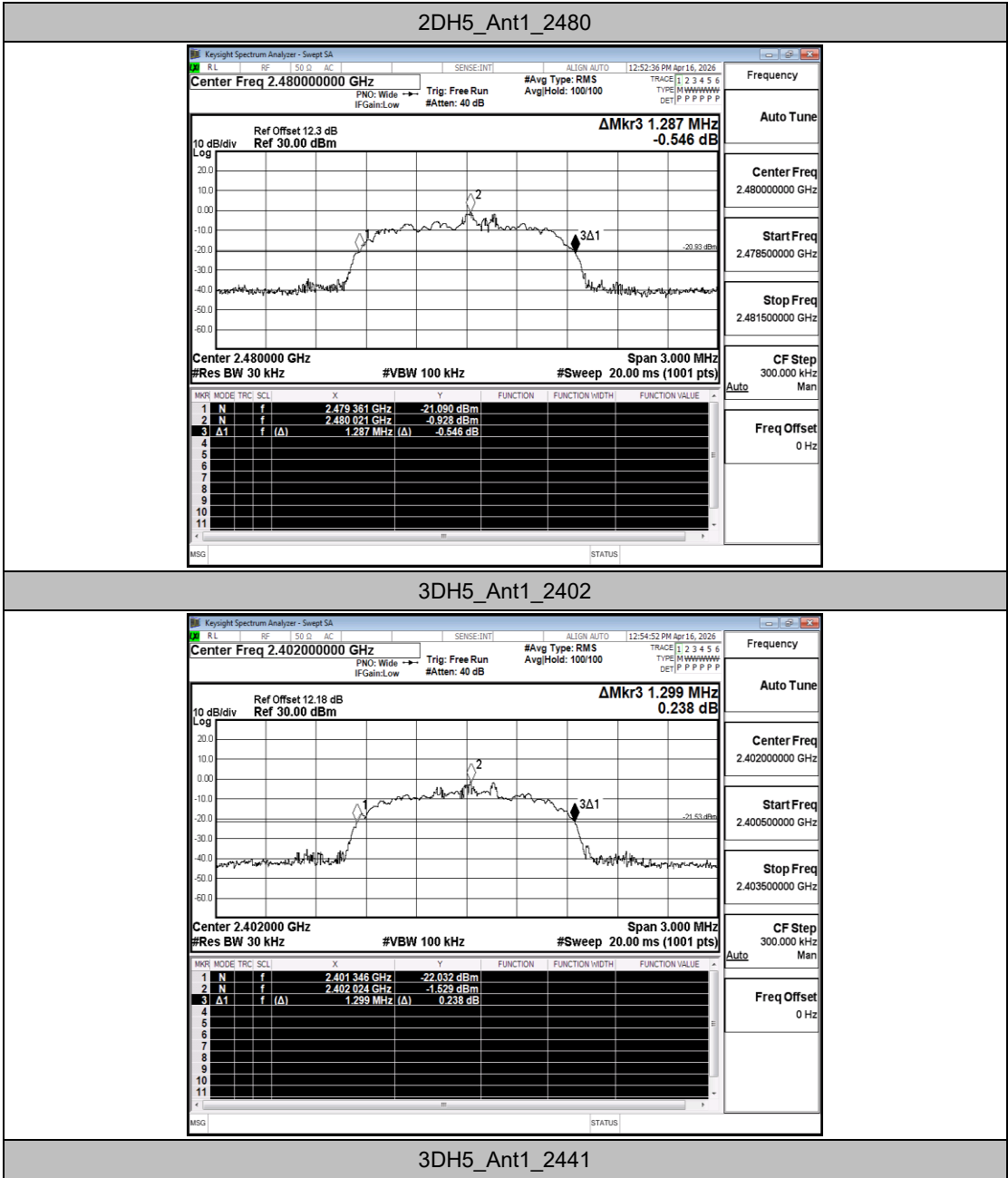
CF Step
300.000 kHz

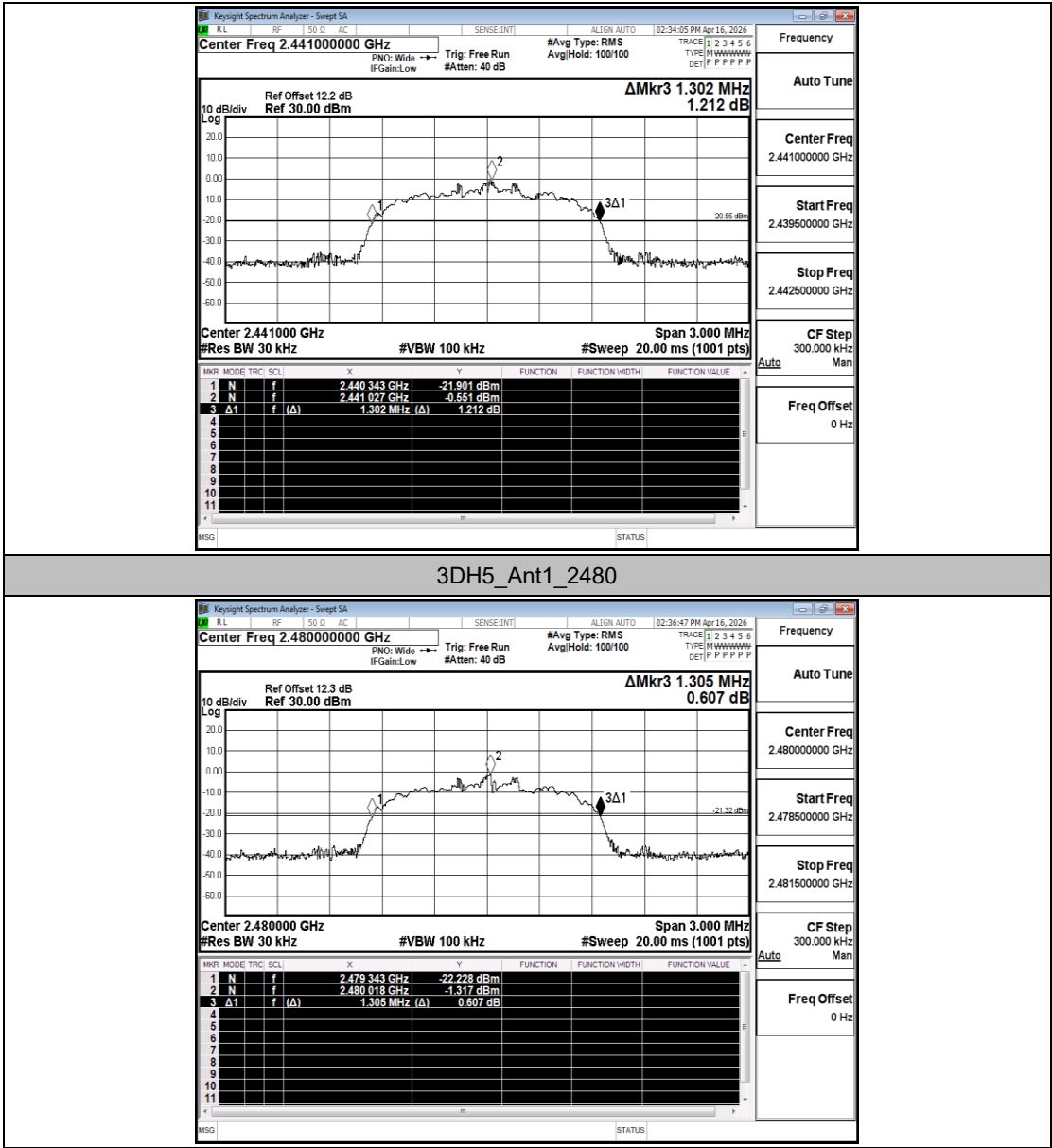
Man

Freq Offset
0 Hz

DH5_Ant1_2480





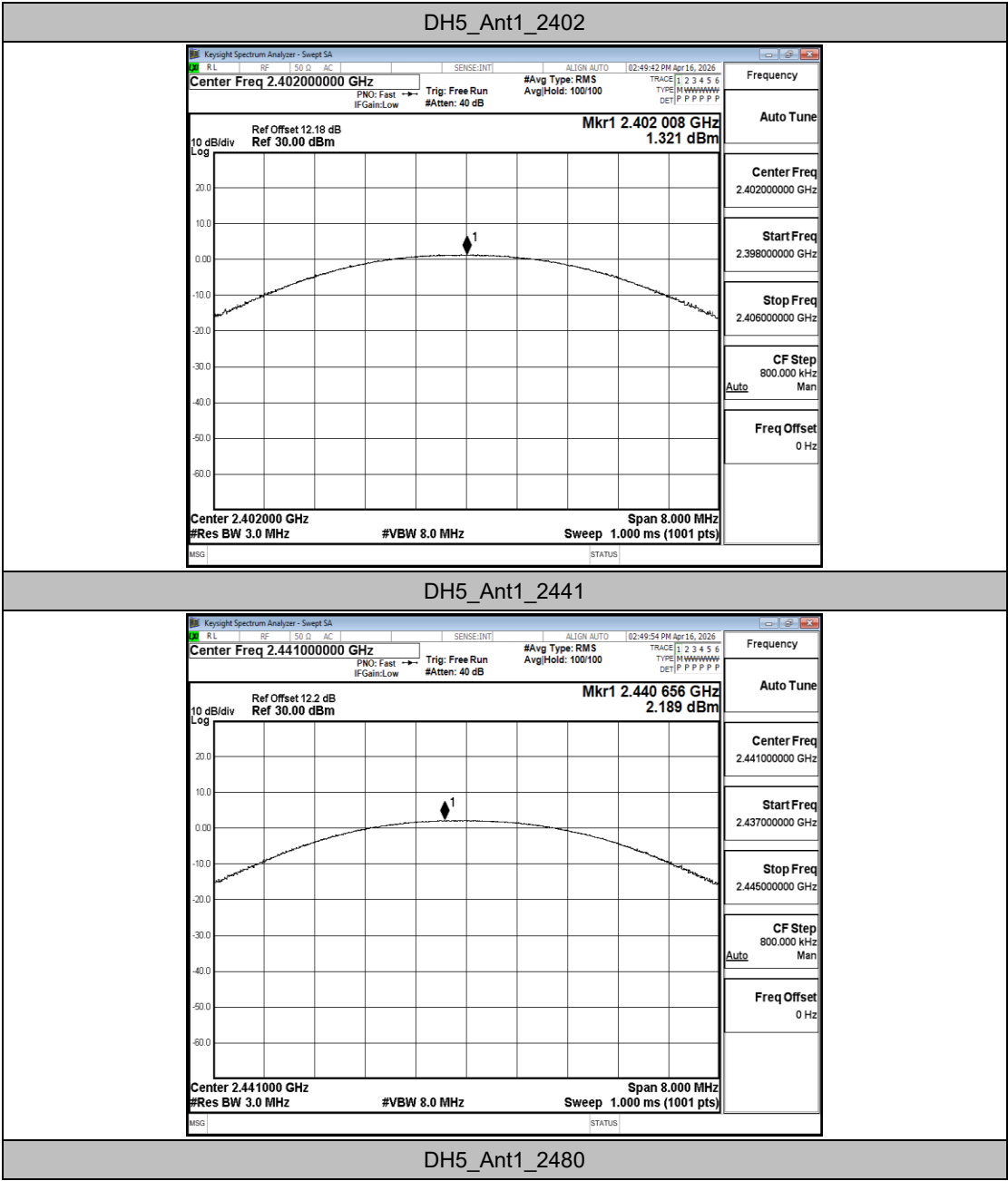


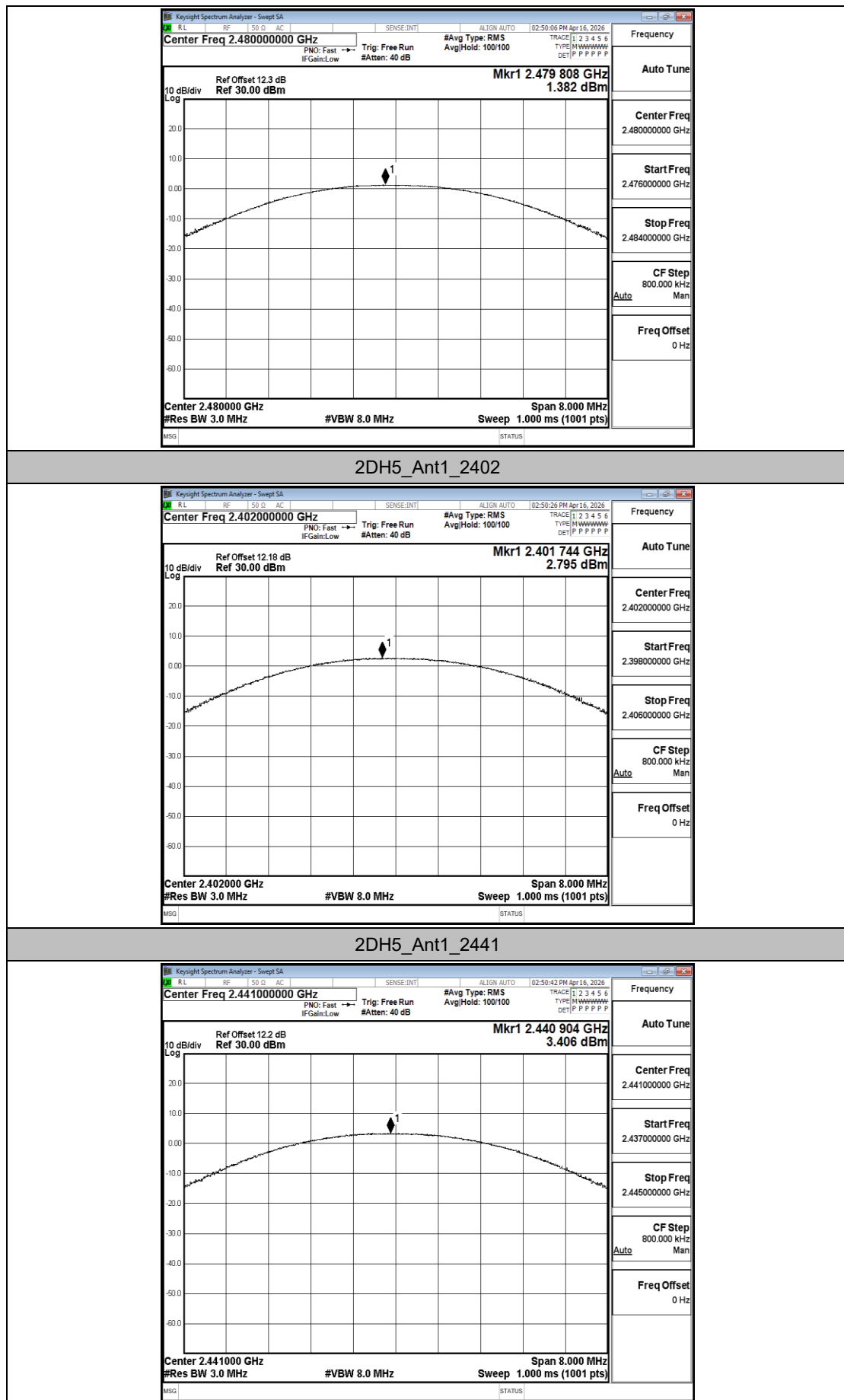
A.2 Maximum Peak conducted output power

Test Result Peak

Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.32	≤30	PASS
		2441	2.19	≤30	PASS
		2480	1.38	≤30	PASS
2DH5	Ant1	2402	2.80	≤30	PASS
		2441	3.41	≤30	PASS
		2480	2.38	≤30	PASS
3DH5	Ant1	2402	3.11	≤30	PASS
		2441	3.67	≤30	PASS
		2480	2.47	≤30	PASS

Test Graphs

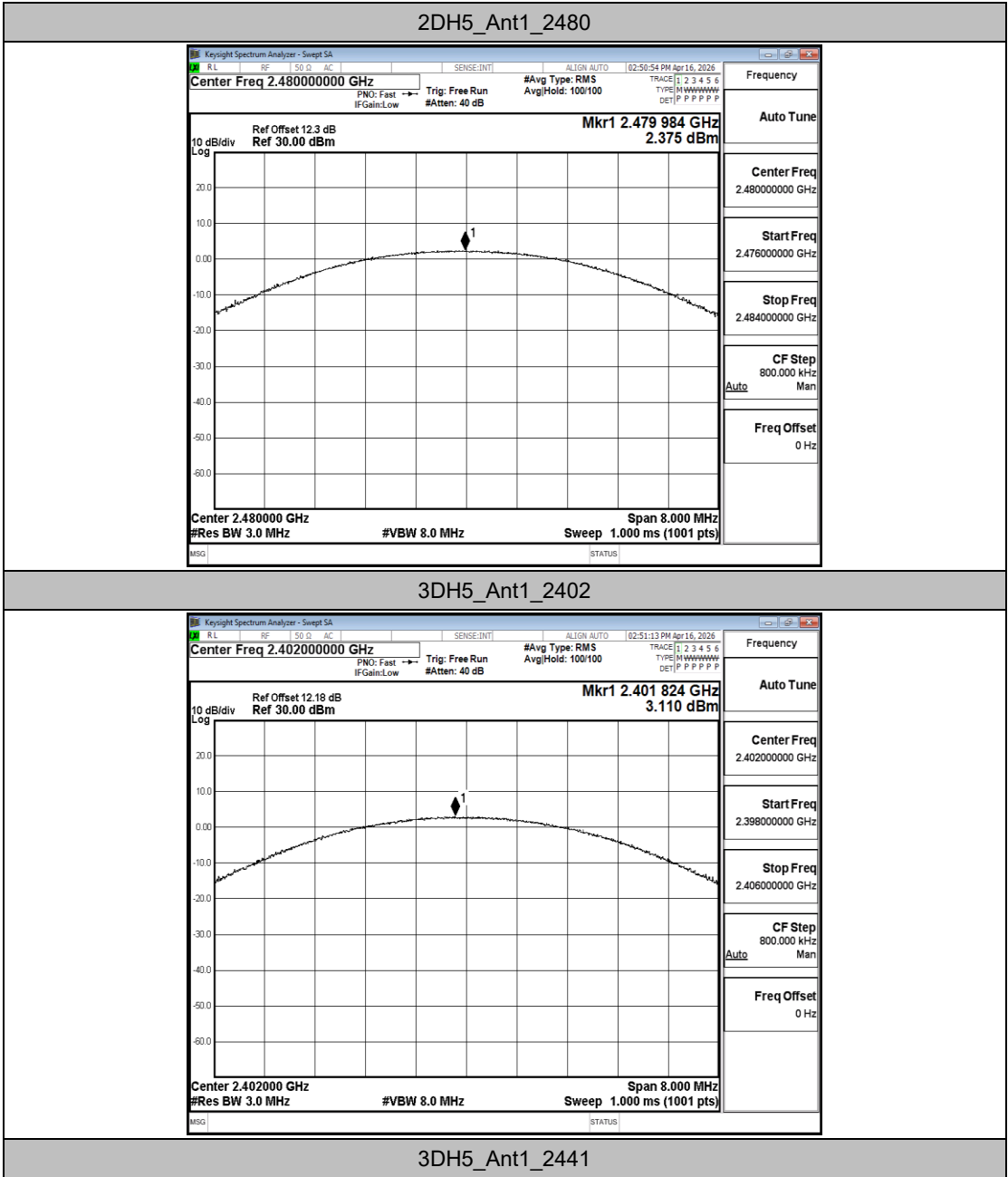


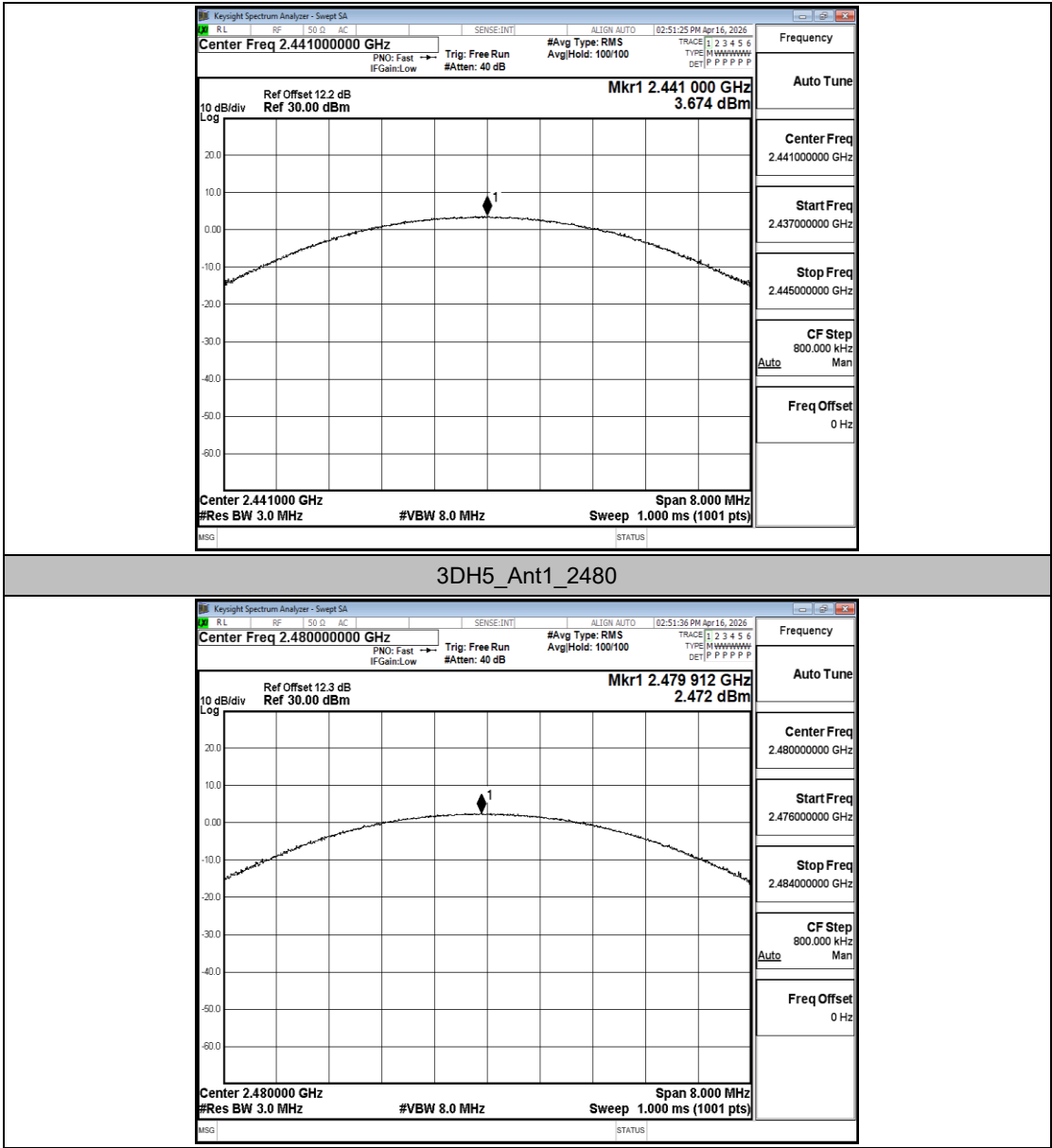


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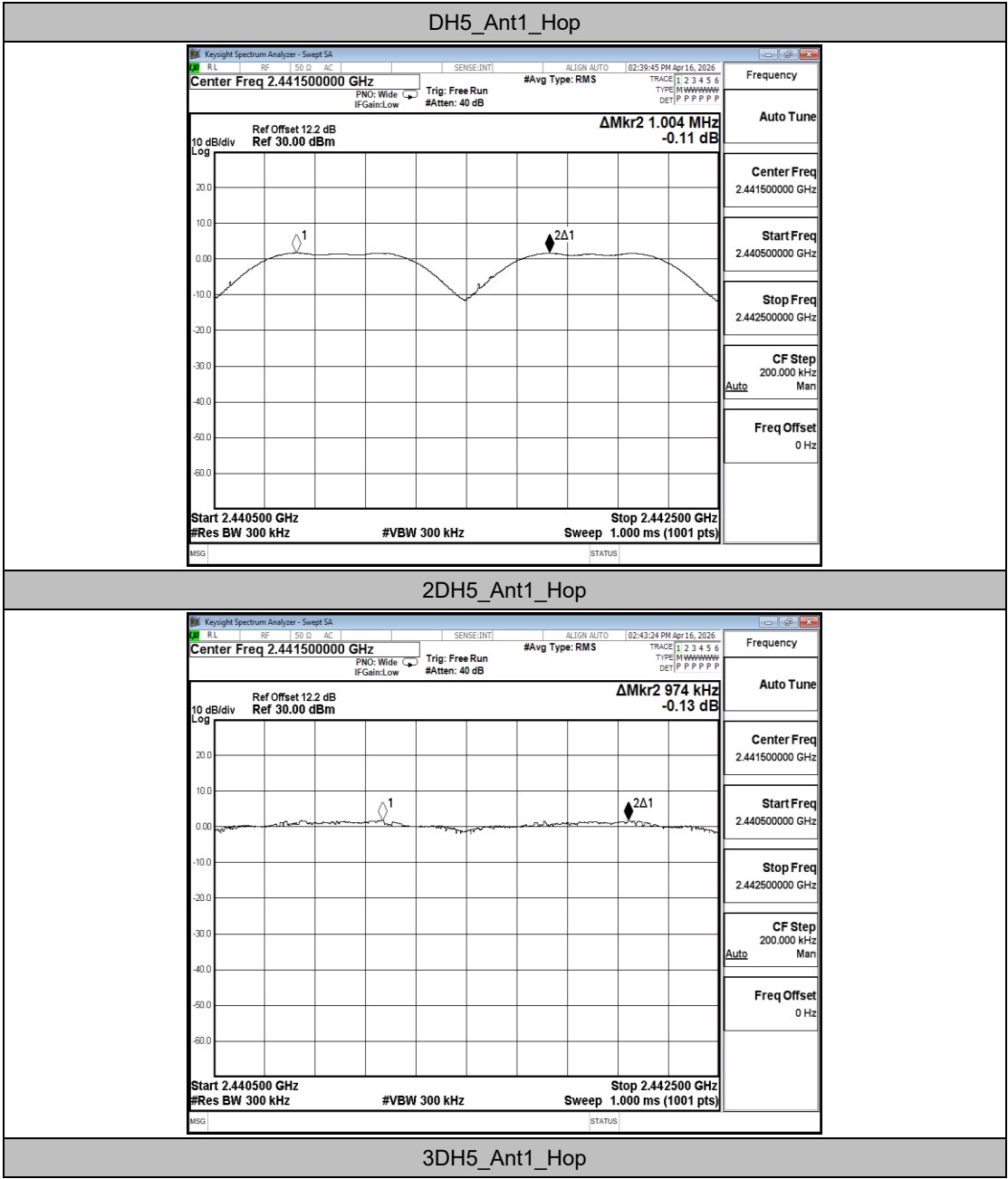


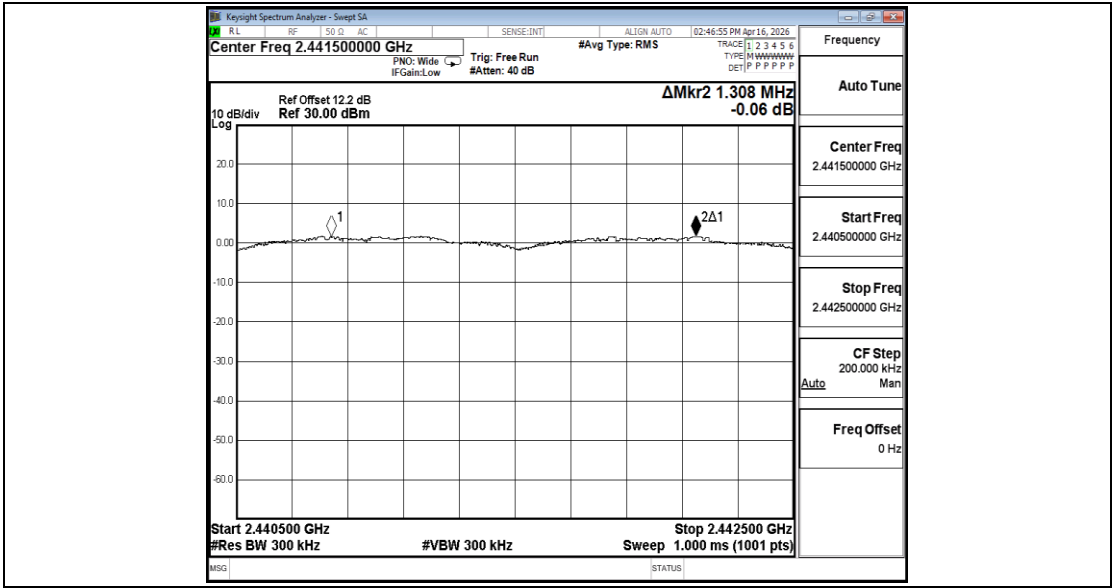
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.960	PASS
2DH5	Ant1	Hop	0.974	≥ 0.864	PASS
3DH5	Ant1	Hop	1.308	≥ 1.305	PASS

Test Graphs



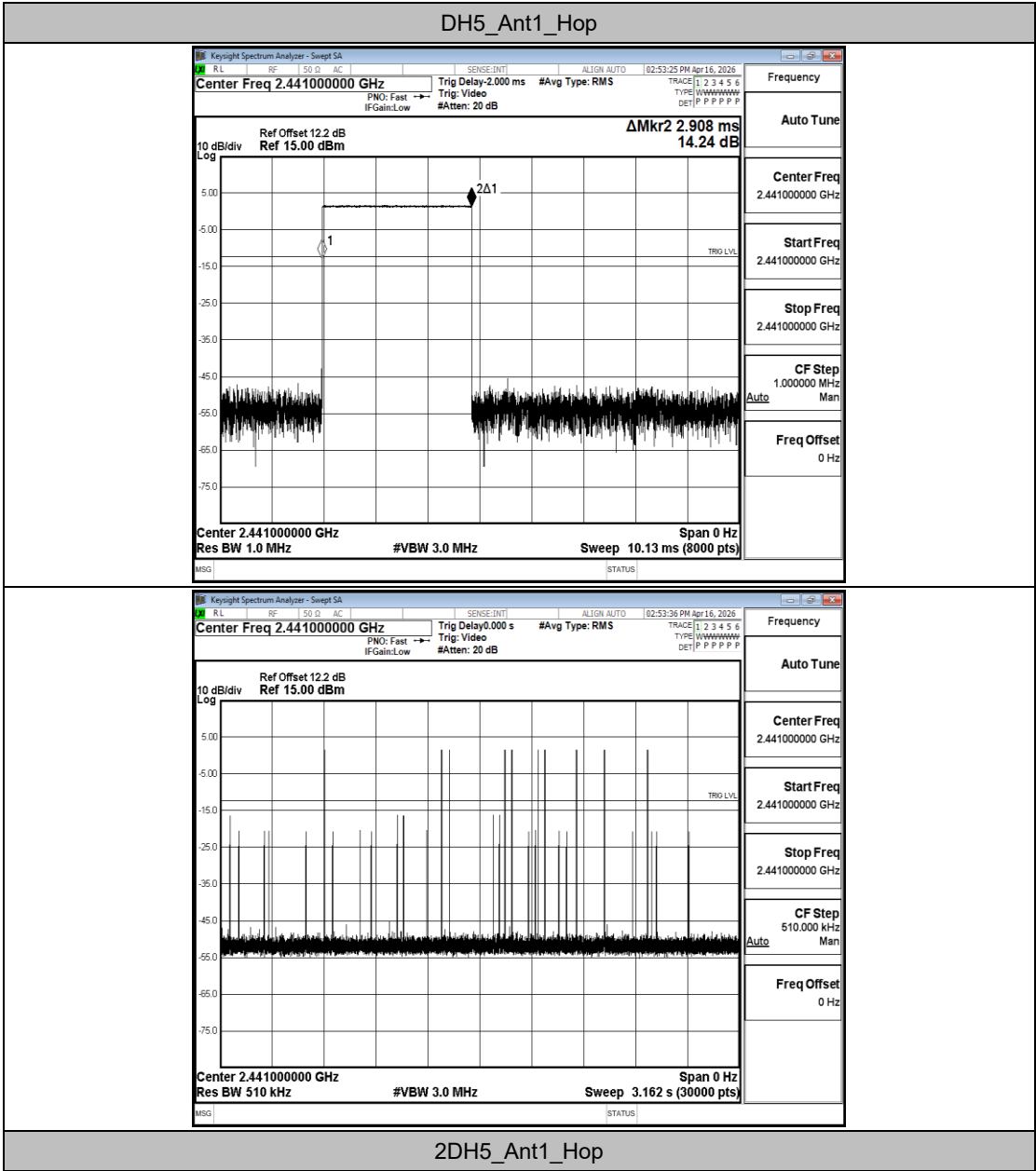


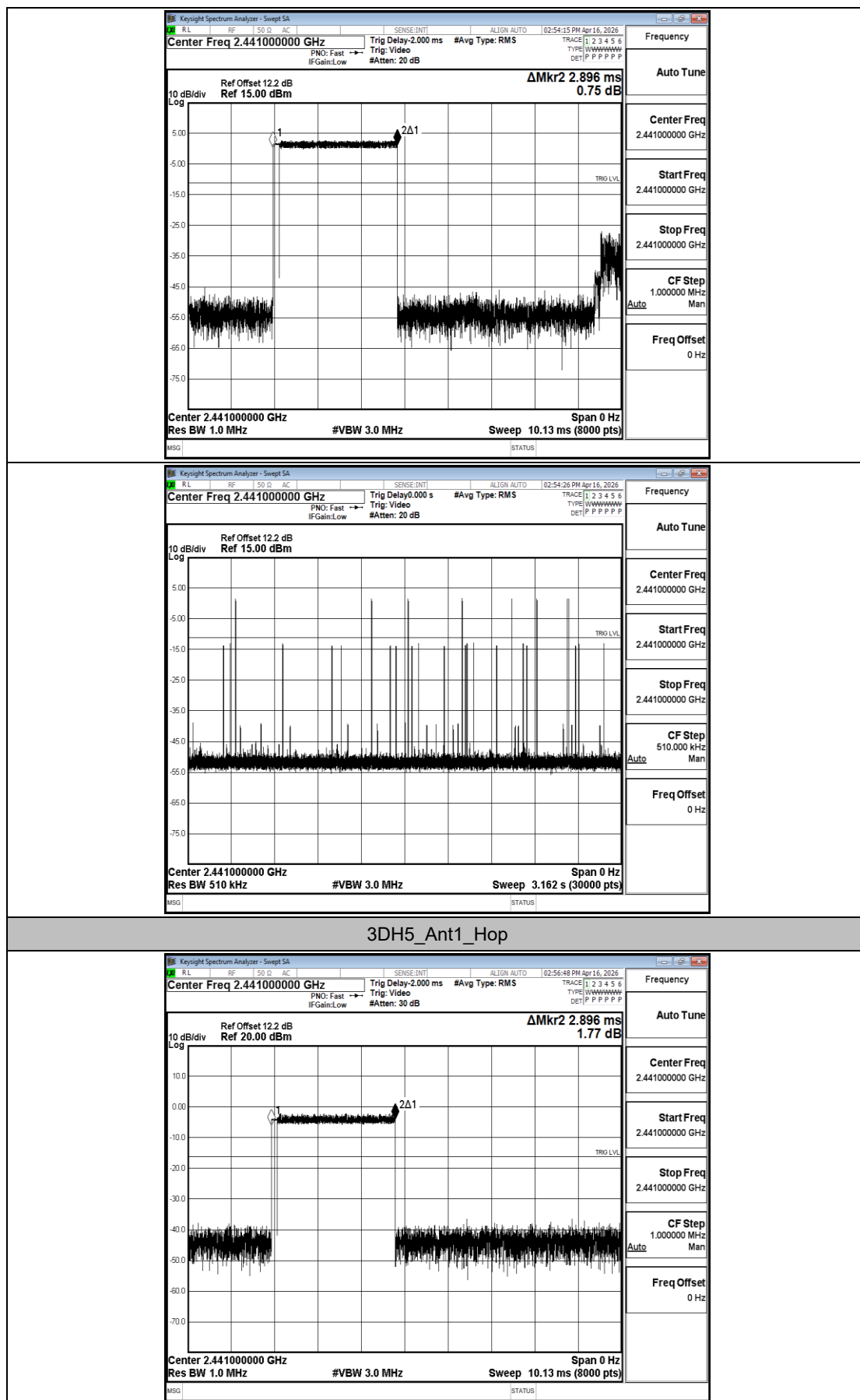
A.4 Time of occupancy

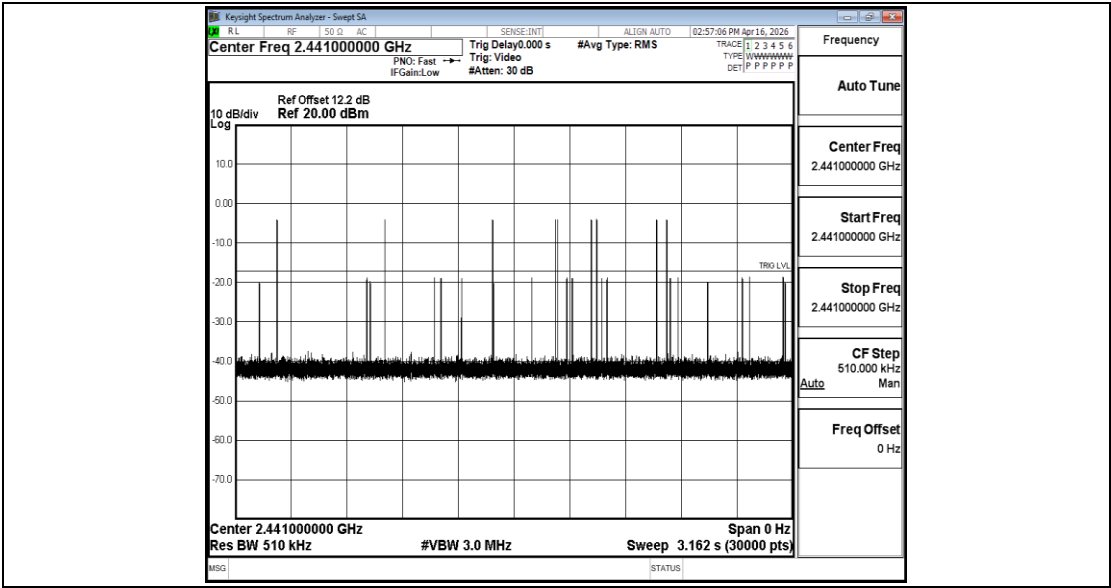
Test Result

TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	110	0.32	≤0.4	PASS
2DH5	Ant1	Hop	2.896	90	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.896	100	0.29	≤0.4	PASS

Test Graphs





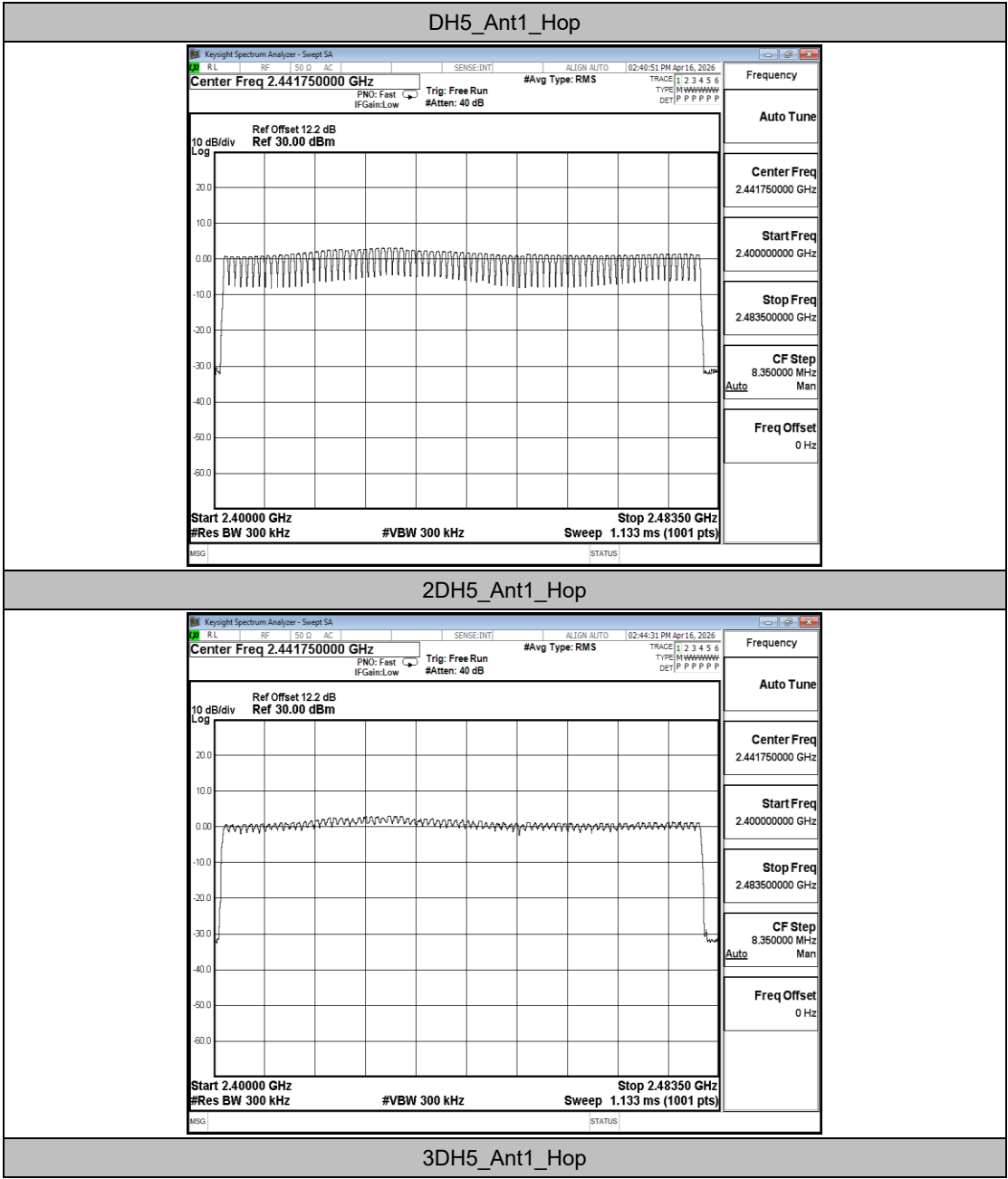


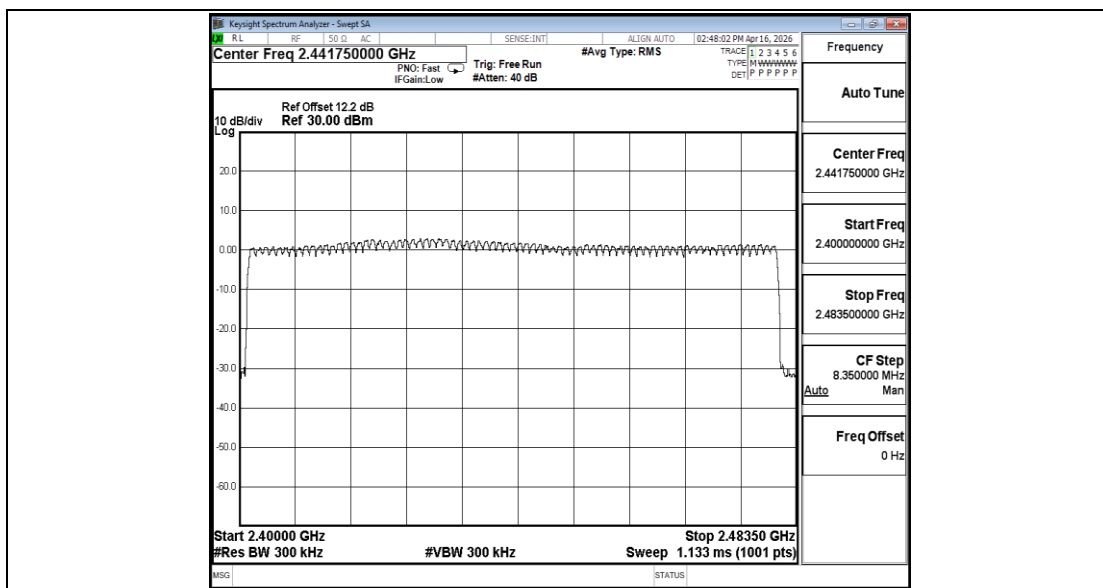
A.5 Number of hopping channels

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



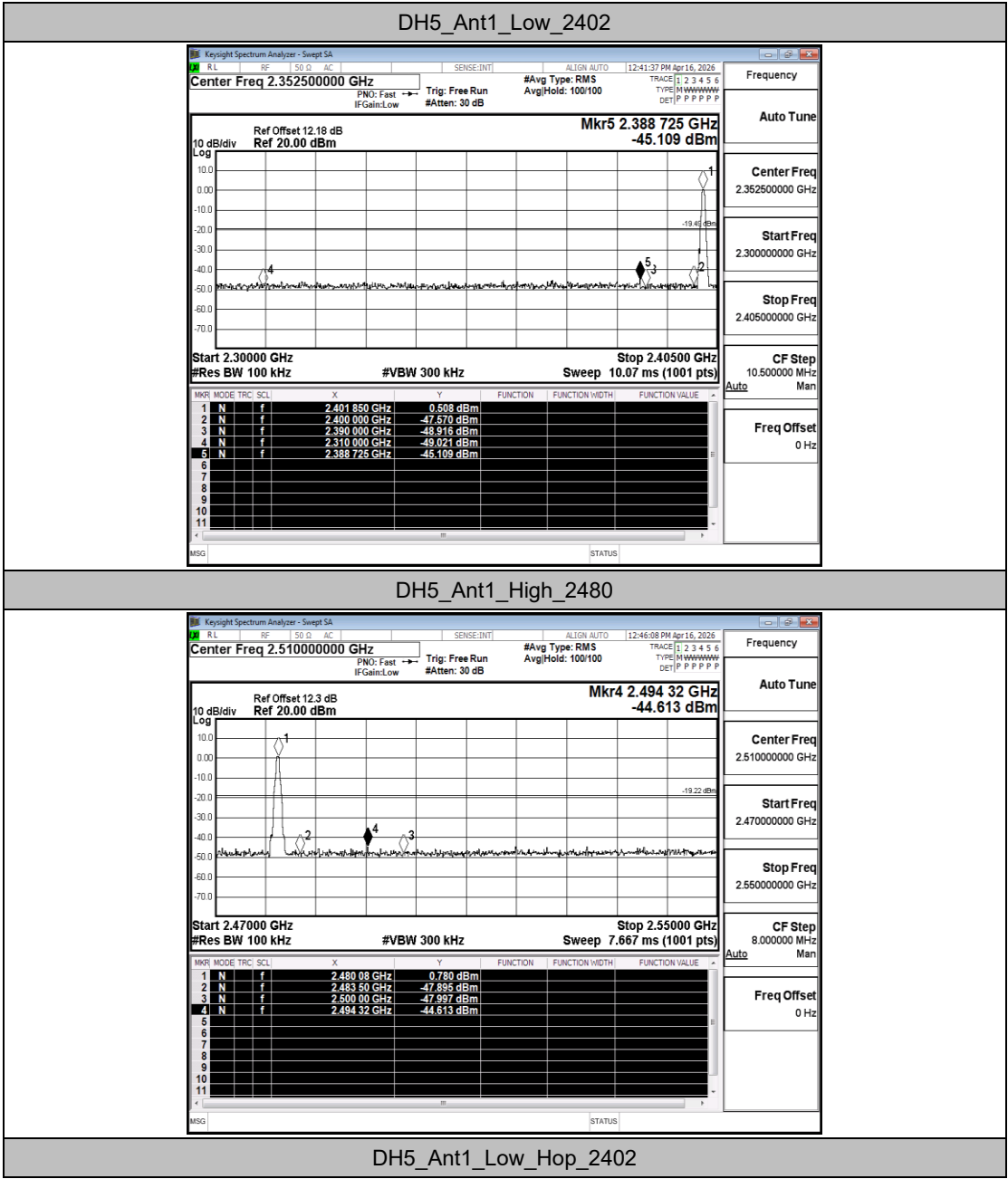


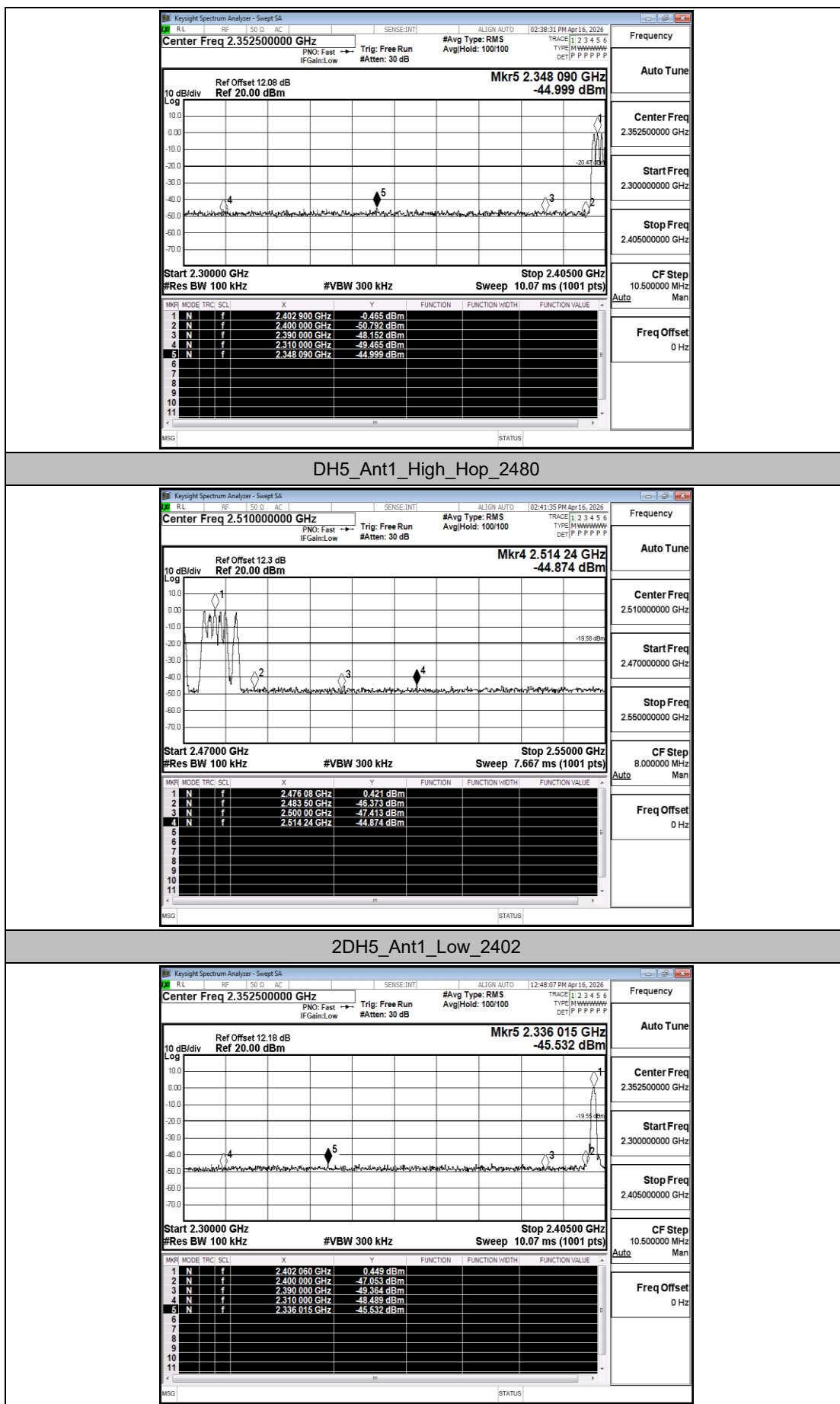
A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.51	-45.11	≤-19.49	PASS
		High	2480	0.78	-44.61	≤-19.22	PASS
		Low	Hop_2402	-0.47	-45	≤-20.47	PASS
		High	Hop_2480	0.42	-44.87	≤-19.58	PASS
2DH5	Ant1	Low	2402	0.45	-45.53	≤-19.55	PASS
		High	2480	0.42	-44.92	≤-19.58	PASS
		Low	Hop_2402	-5.14	-45.76	≤-25.14	PASS
		High	Hop_2480	-1.64	-44.99	≤-21.64	PASS
3DH5	Ant1	Low	2402	0.67	-44.49	≤-19.33	PASS
		High	2480	0.89	-44.72	≤-19.11	PASS
		Low	Hop_2402	-3.60	-44.68	≤-23.6	PASS
		High	Hop_2480	-1.07	-44.78	≤-21.07	PASS

Test Graphs

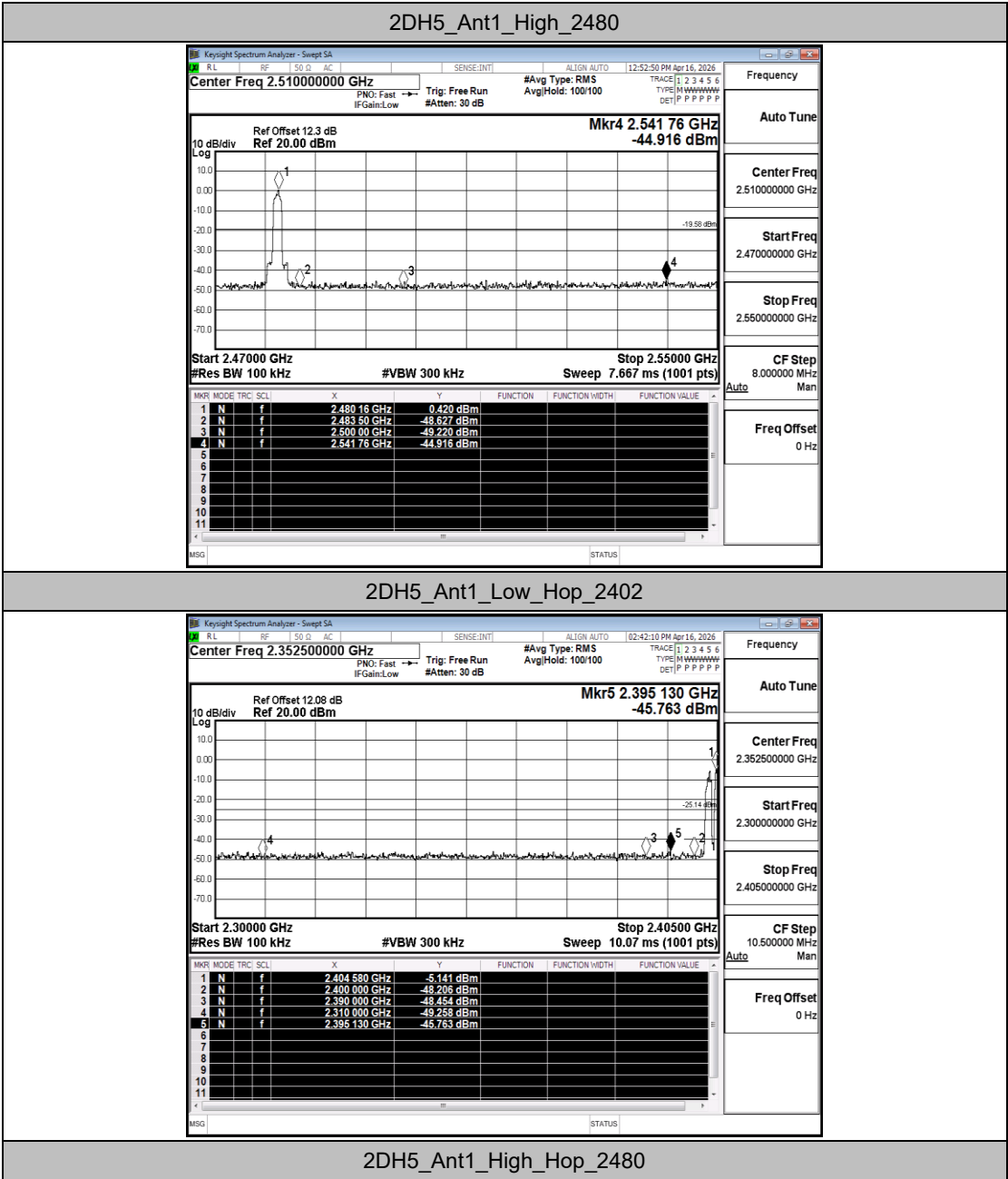


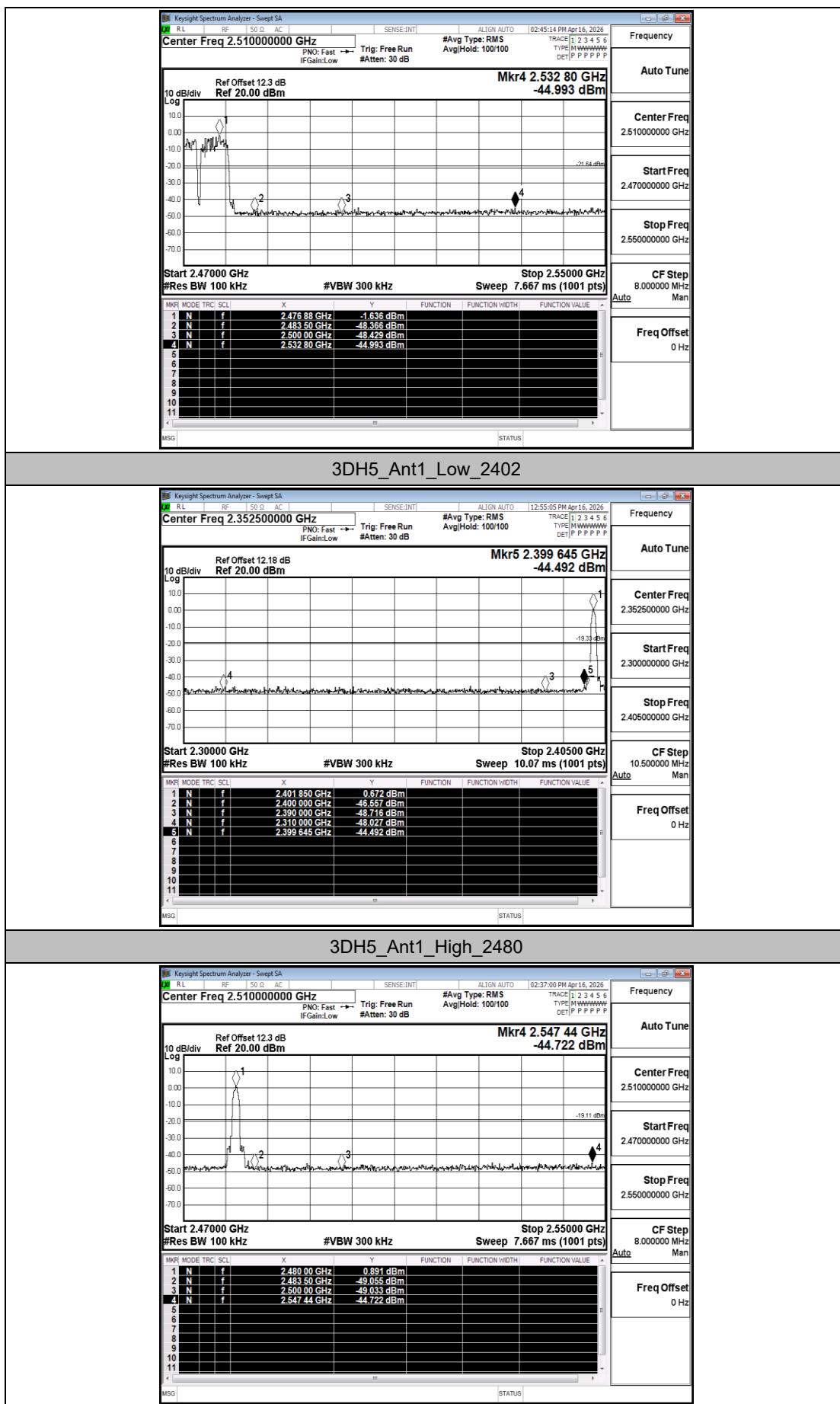


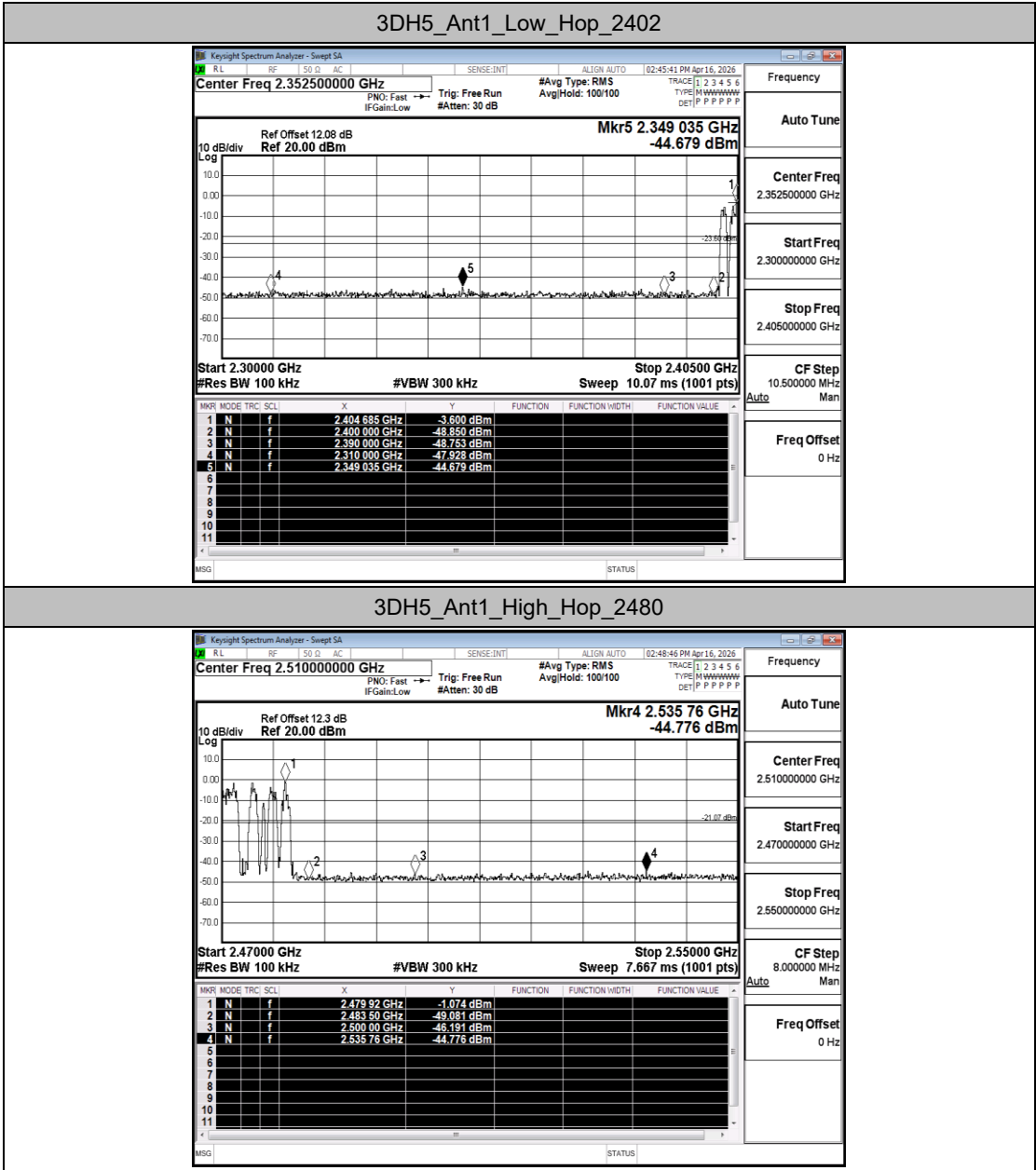
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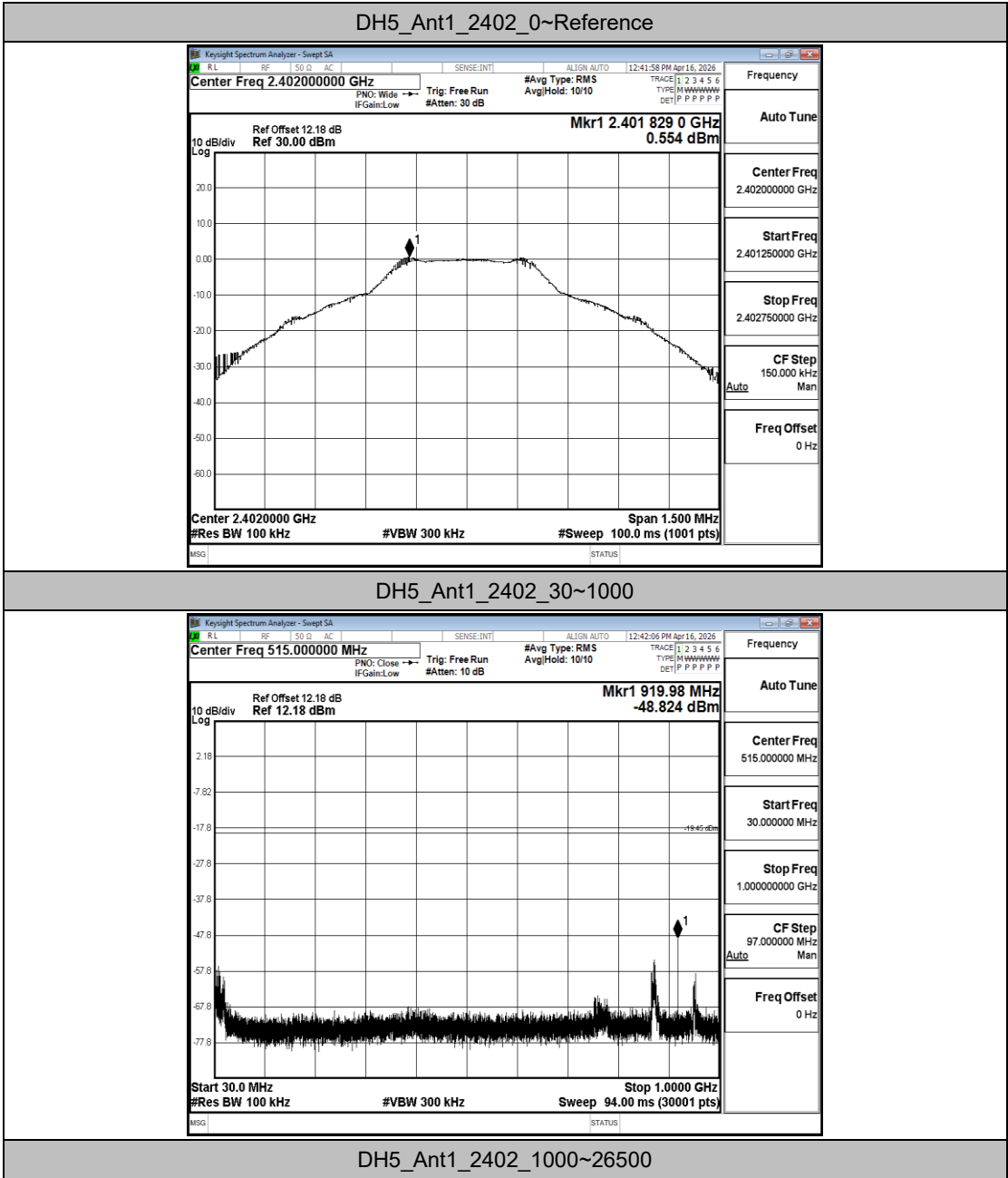


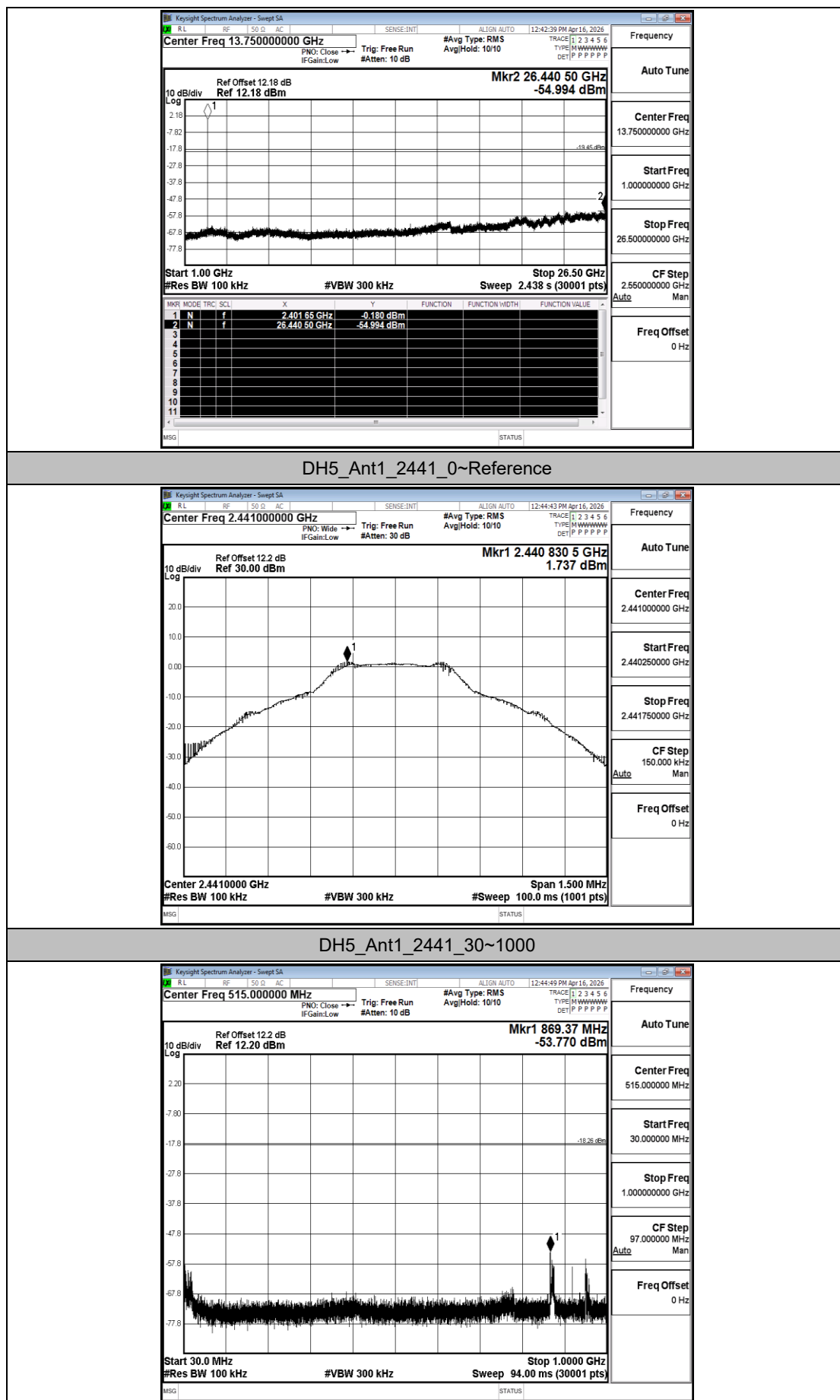
A.7 Conducted Spurious Emission

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	-48.82	≤-19.45	PASS
			1000~26500	0.55	-54.99	≤-19.45	PASS
		2441	Reference	1.74	1.74	---	PASS
			30~1000	1.74	-53.77	≤-18.26	PASS
			1000~26500	1.74	-54.58	≤-18.26	PASS
		2480	Reference	1.08	1.08	---	PASS
			30~1000	1.08	-41.12	≤-18.92	PASS
			1000~26500	1.08	-54.63	≤-18.92	PASS
2DH5	Ant1	2402	Reference	0.45	0.45	---	PASS
			30~1000	0.45	-53.87	≤-19.55	PASS
			1000~26500	0.45	-55.15	≤-19.55	PASS
		2441	Reference	1.58	1.58	---	PASS
			30~1000	1.58	-54.43	≤-18.42	PASS
			1000~26500	1.58	-54.61	≤-18.42	PASS
		2480	Reference	0.97	0.97	---	PASS
			30~1000	0.97	-49.99	≤-19.03	PASS
			1000~26500	0.97	-54.55	≤-19.03	PASS
3DH5	Ant1	2402	Reference	0.69	0.69	---	PASS
			30~1000	0.69	-55.14	≤-19.31	PASS
			1000~26500	0.69	-54.44	≤-19.31	PASS
		2441	Reference	1.66	1.66	---	PASS
			30~1000	1.66	-57.01	≤-18.34	PASS
			1000~26500	1.66	-40.05	≤-18.34	PASS
		2480	Reference	1.07	1.07	---	PASS
			30~1000	1.07	-50.05	≤-18.93	PASS
			1000~26500	1.07	-54.93	≤-18.93	PASS

Test Graphs





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