

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Soundbar

Test Model: SR250C-37-30

Environmental Conditions

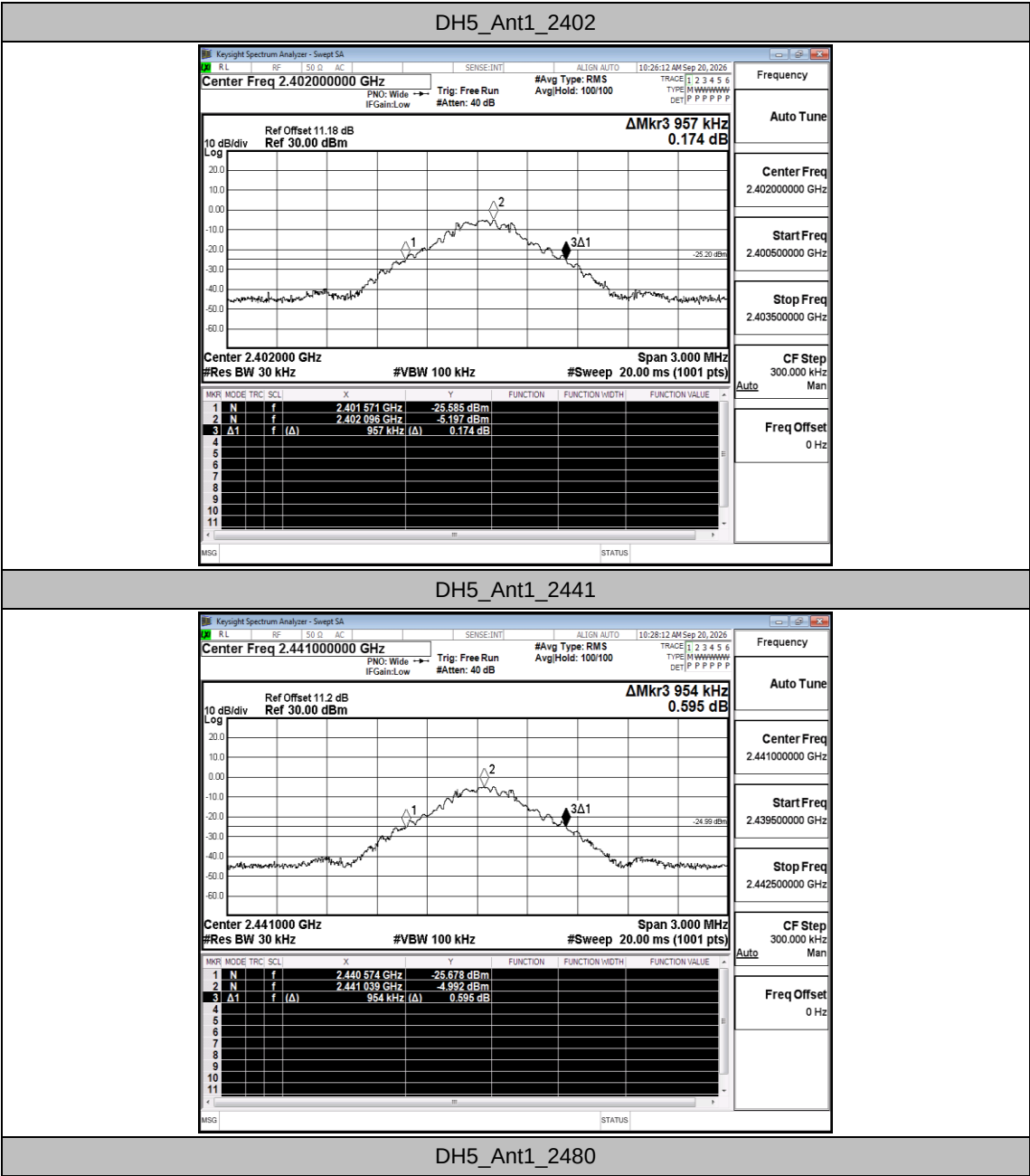
Temperature:	24.6°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao xing hai
Supervised by:	Fengliu Tang

A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.571	2402.528	---	---
		2441	0.954	2440.574	2441.528	---	---
		2480	0.957	2479.574	2480.531	---	---
2DH5	Ant1	2402	1.314	2401.385	2402.699	---	---
		2441	1.290	2440.412	2441.702	---	---
		2480	1.311	2479.391	2480.702	---	---
3DH5	Ant1	2402	1.287	2401.397	2402.684	---	---
		2441	1.287	2440.400	2441.687	---	---
		2480	1.290	2479.397	2480.687	---	---

Test Graphs



DH5_Ant1_2441

KeySight Spectrum Analyzer - Swept SA

RLRF50 dBACSENSE:INT10:28:12 AM Sep 20, 2026

Center Freq 2.441000000 GHz

Trig: Free Run

#Avg Type: RMS

Avg/Hold: 100/100

TYPE: M W W W W W W W

DET: P P P P P P P

Frequency

Auto Tune

Center Freq

2.441000000 GHz

Start Freq

2.439500000 GHz

Stop Freq

2.442500000 GHz

CF Step

300.000 kHz

Man

Auto

Freq Offset

0 Hz

Ref Offset 11.2 dB

Ref 30.00 dBm

Δ Mkr3 954 kHz

0.595 dB

10 dB/div

Log

20.0

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

Center 2.441000 GHz

#Res BW 30 kHz

#VBW 100 kHz

#Sweep 20.00 ms (1001 pts)

Span 3.000 MHz

1 N f 2.440574 GHz -25.678 dBm

2 N f 2.441039 GHz -4.992 dBm

3 Δ 1 f (Δ) 954 kHz (Δ) 0.595 dB

4

5

6

7

8

9

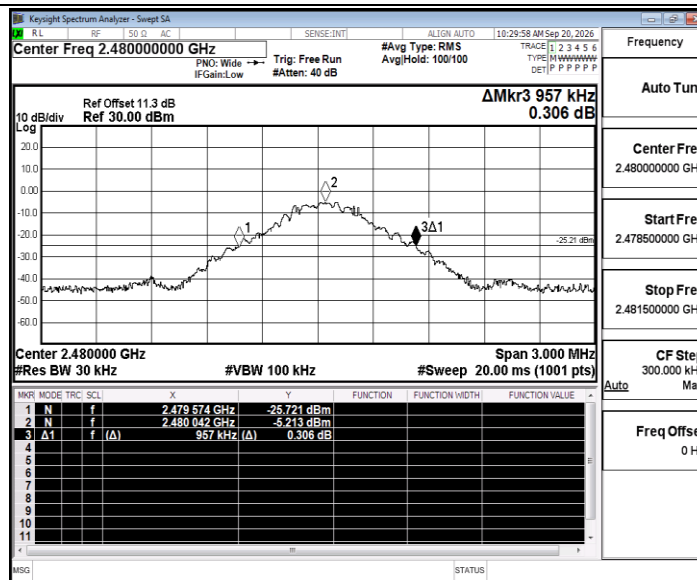
10

11

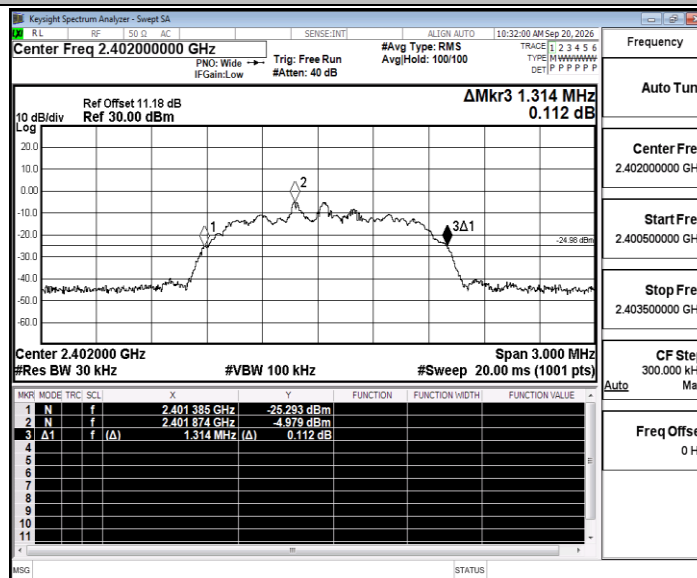
MSG

STATUS

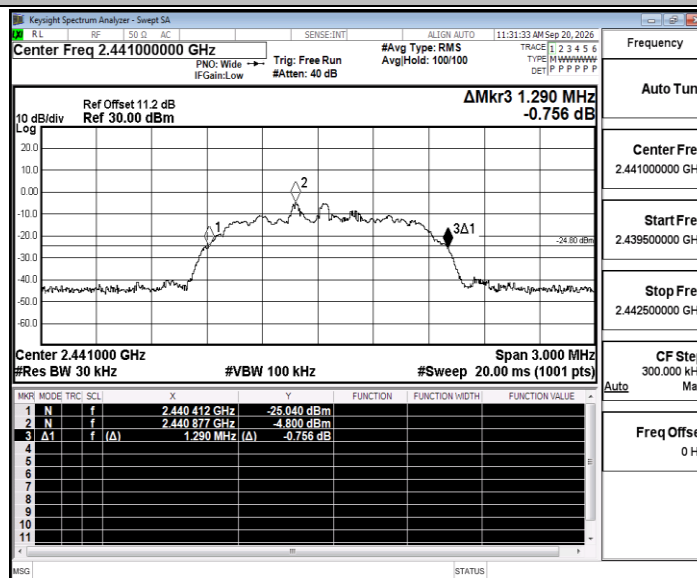
DH5_Ant1_2480



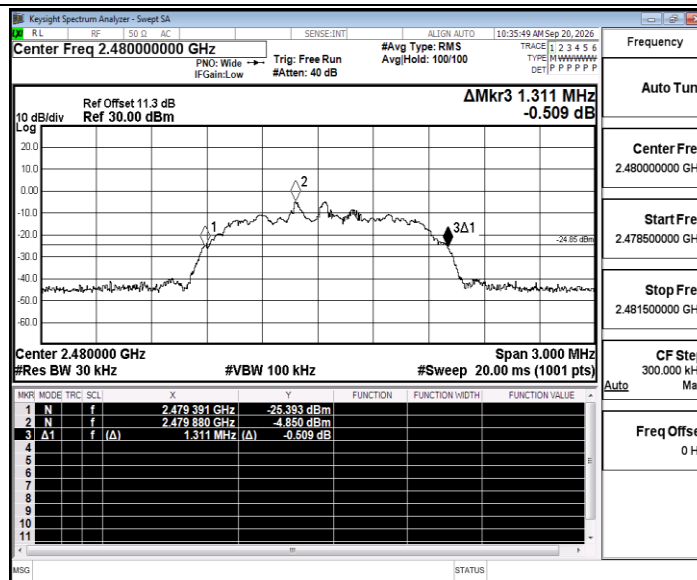
2DH5_Ant1_2402



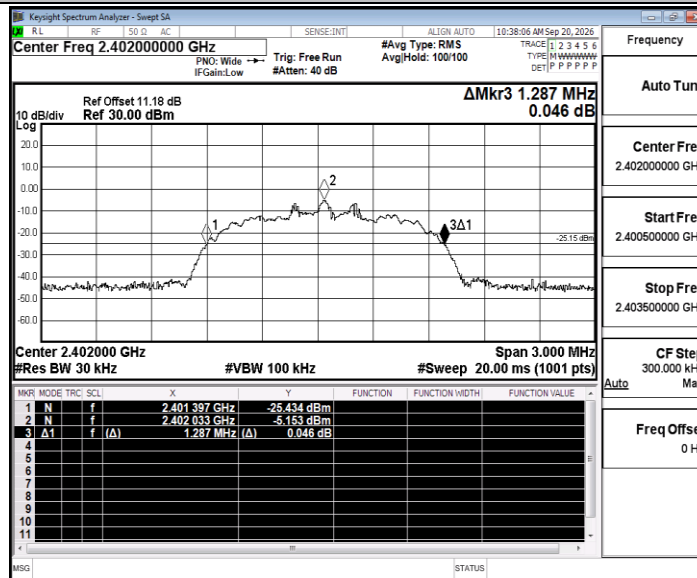
2DH5_Ant1_2441



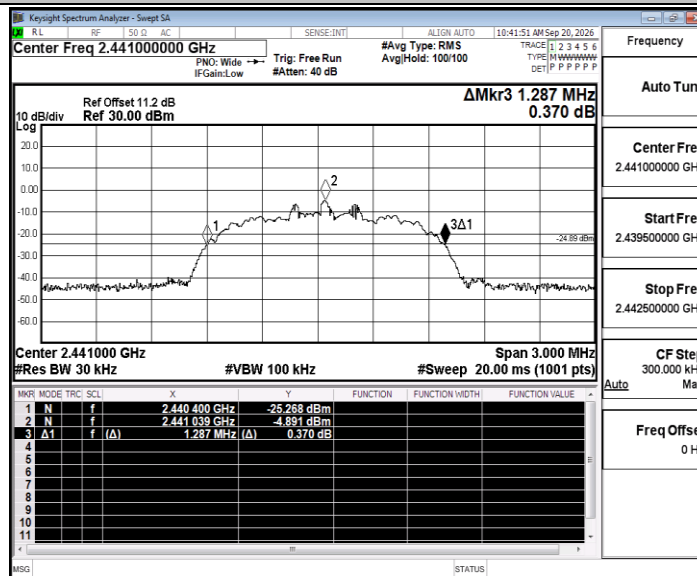
2DH5_Ant1_2480



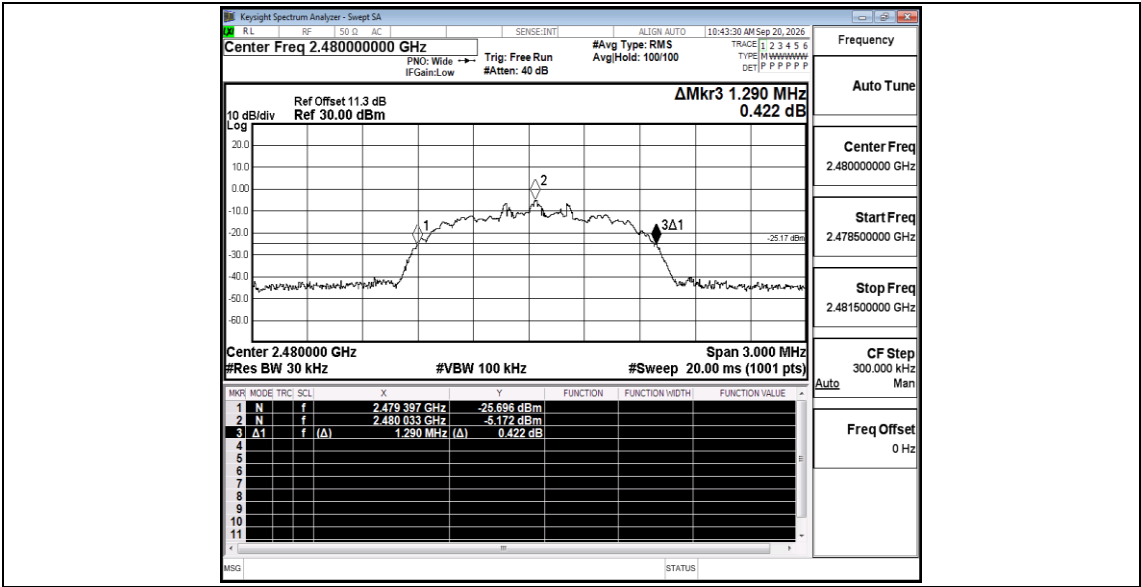
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

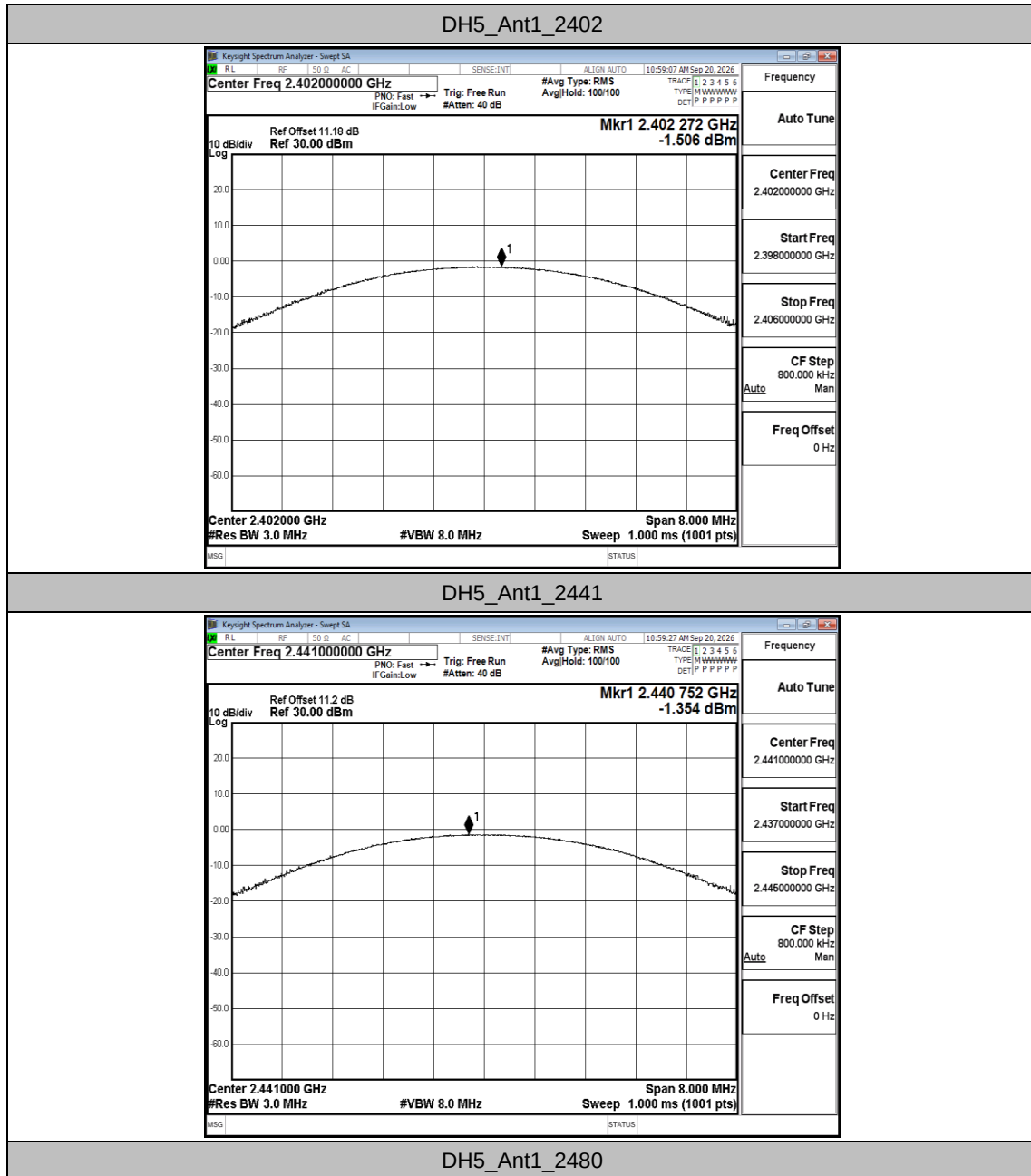


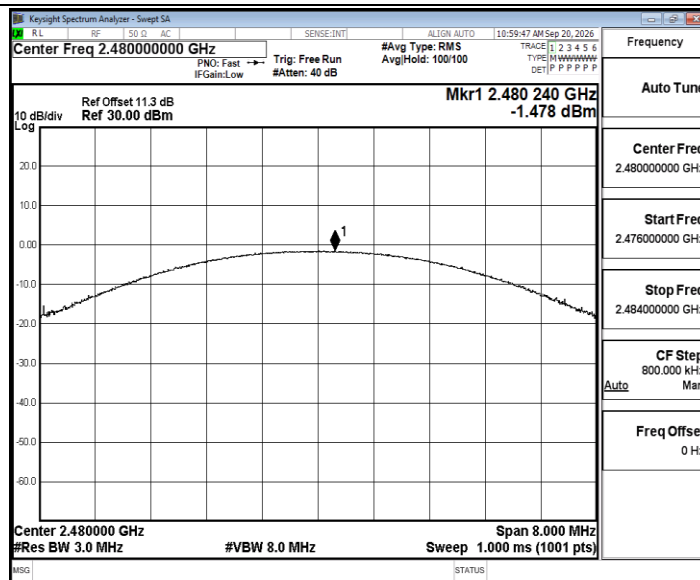
A.2 Maximum Peak conducted output power

Test Result Peak

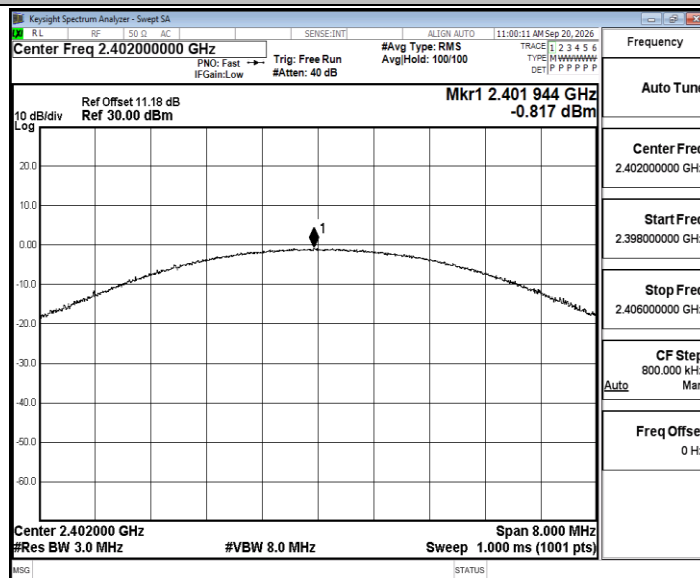
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-1.51	≤30	PASS
		2441	-1.35	≤30	PASS
		2480	-1.48	≤30	PASS
2DH5	Ant1	2402	-0.82	≤20.97	PASS
		2441	-0.63	≤20.97	PASS
		2480	-0.88	≤20.97	PASS
3DH5	Ant1	2402	-1.06	≤20.97	PASS
		2441	-0.84	≤20.97	PASS
		2480	-0.88	≤20.97	PASS

Test Graphs

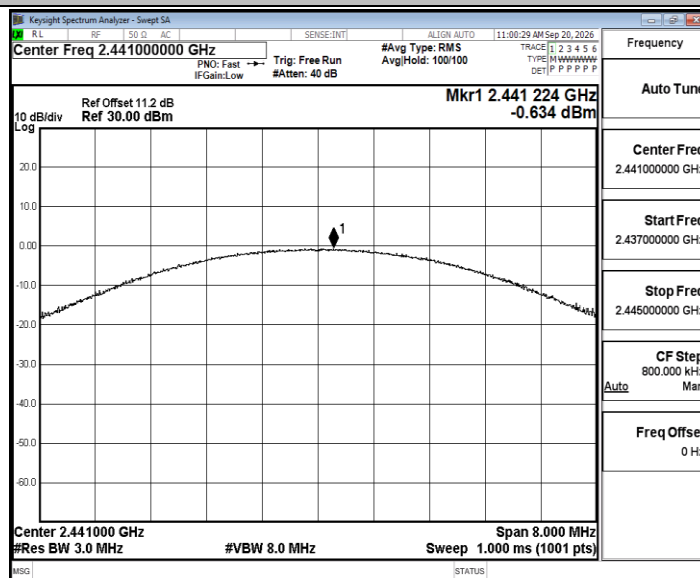




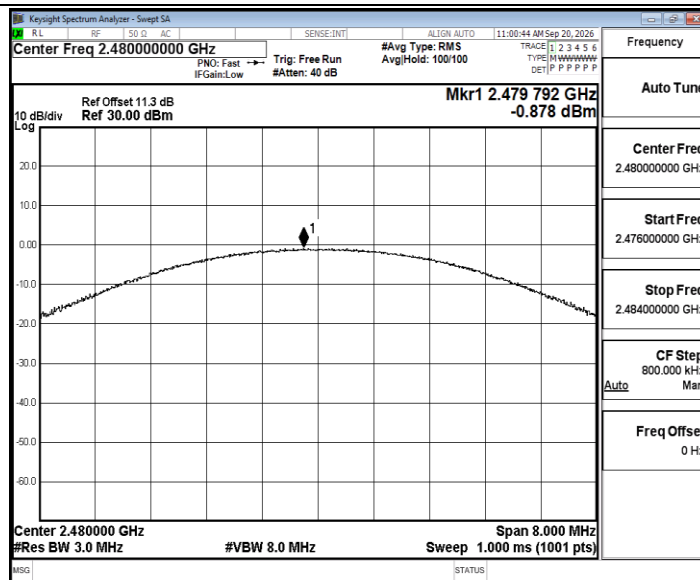
2DH5_Ant1_2402



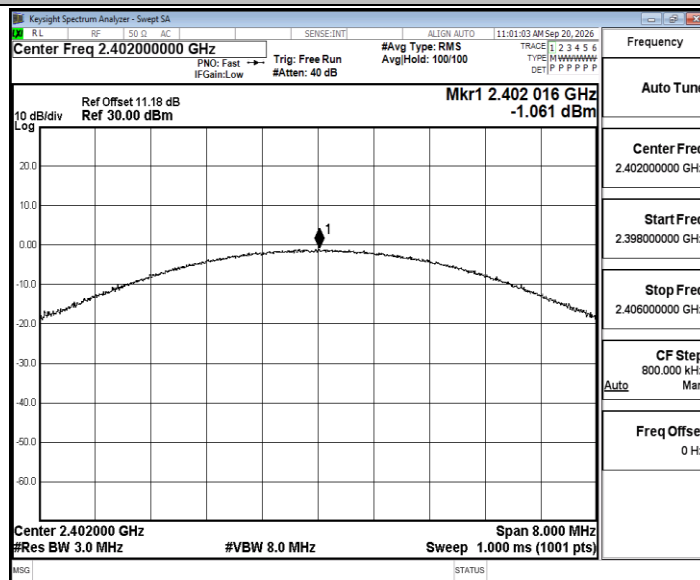
2DH5_Ant1_2441



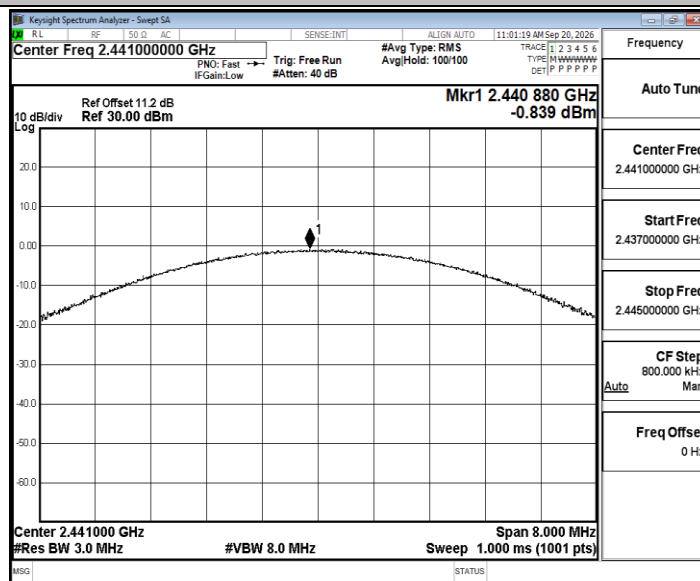
2DH5_Ant1_2480



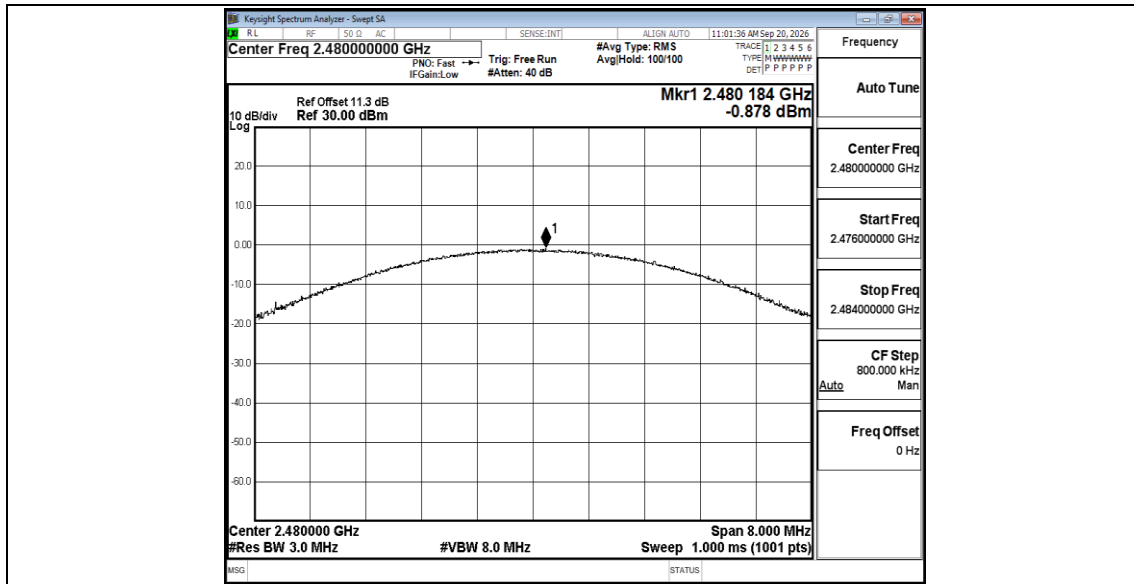
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

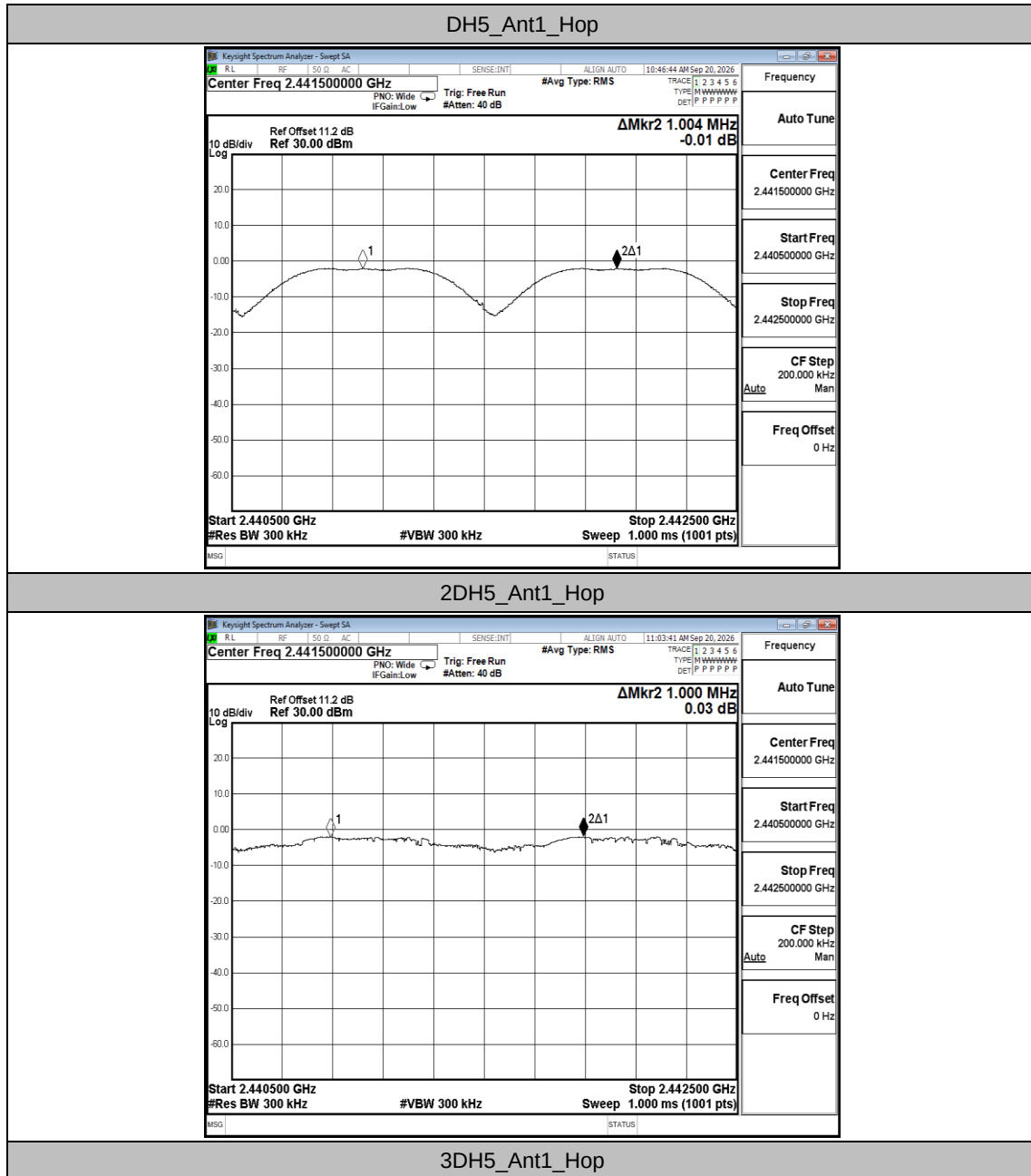


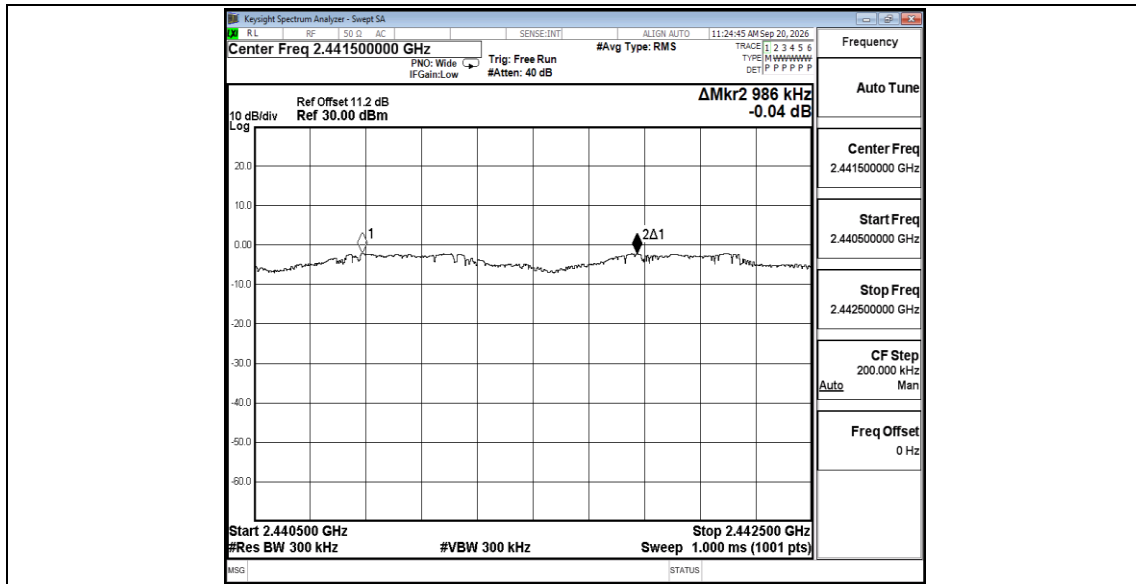
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.638	PASS
2DH5	Ant1	Hop	1	≥ 0.876	PASS
3DH5	Ant1	Hop	0.986	≥ 0.860	PASS

Test Graphs



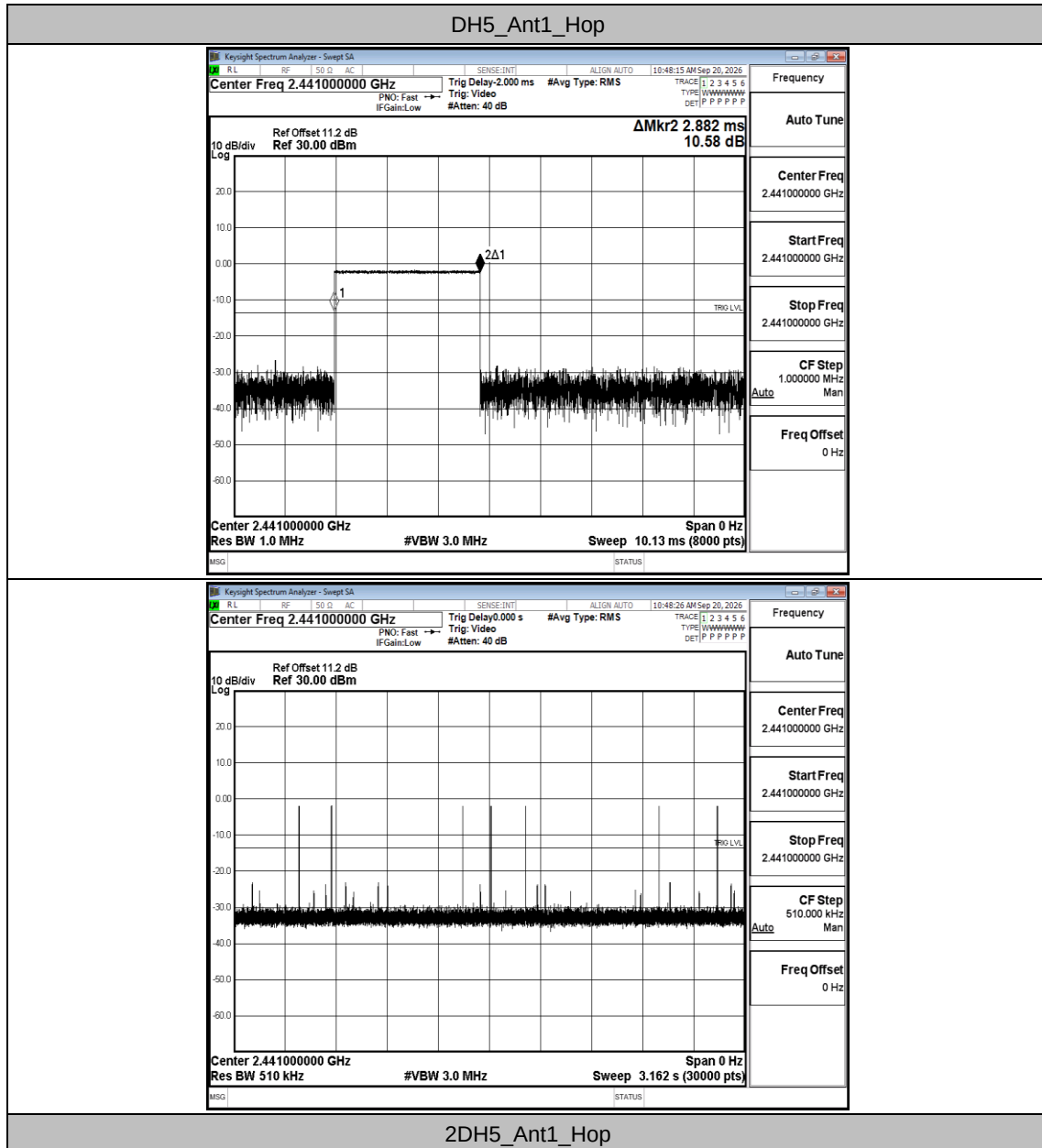


A.4 Time of occupancy

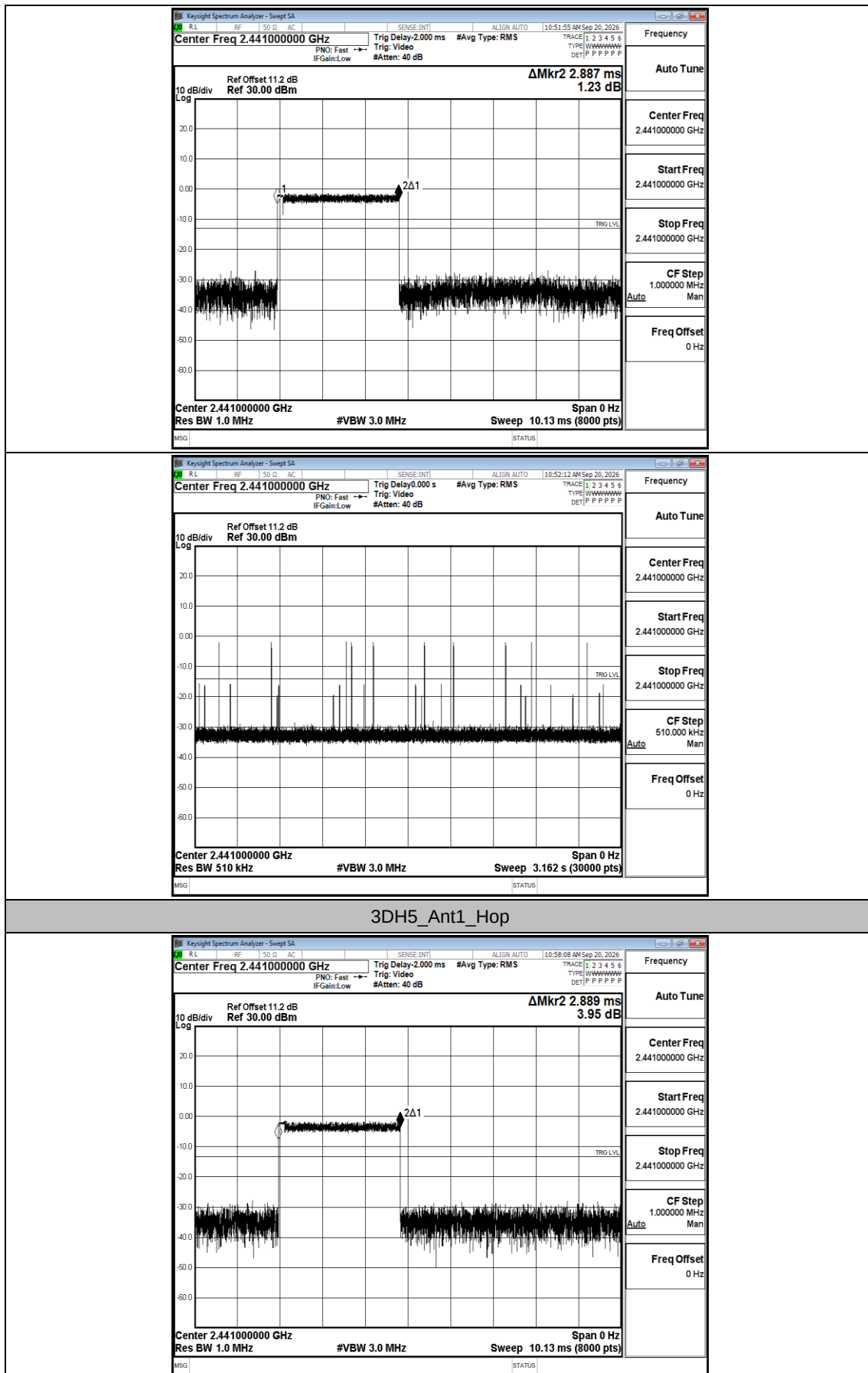
Test Result

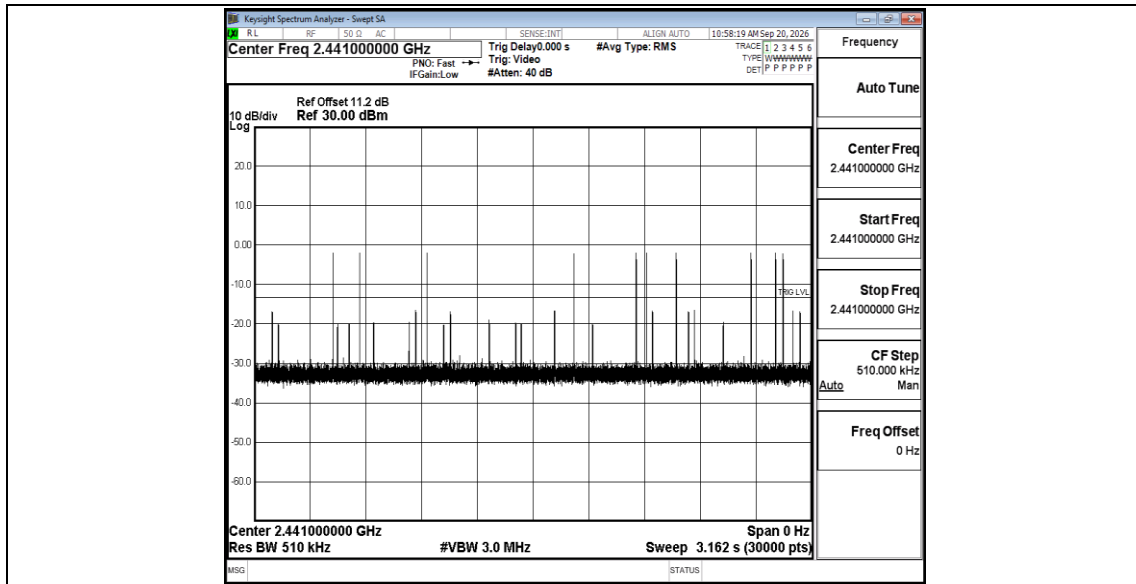
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.882	80	0.231	≤0.4	PASS
2DH5	Ant1	Hop	2.887	110	0.318	≤0.4	PASS
3DH5	Ant1	Hop	2.889	110	0.318	≤0.4	PASS

Test Graphs



2DH5_Ant1_Hop



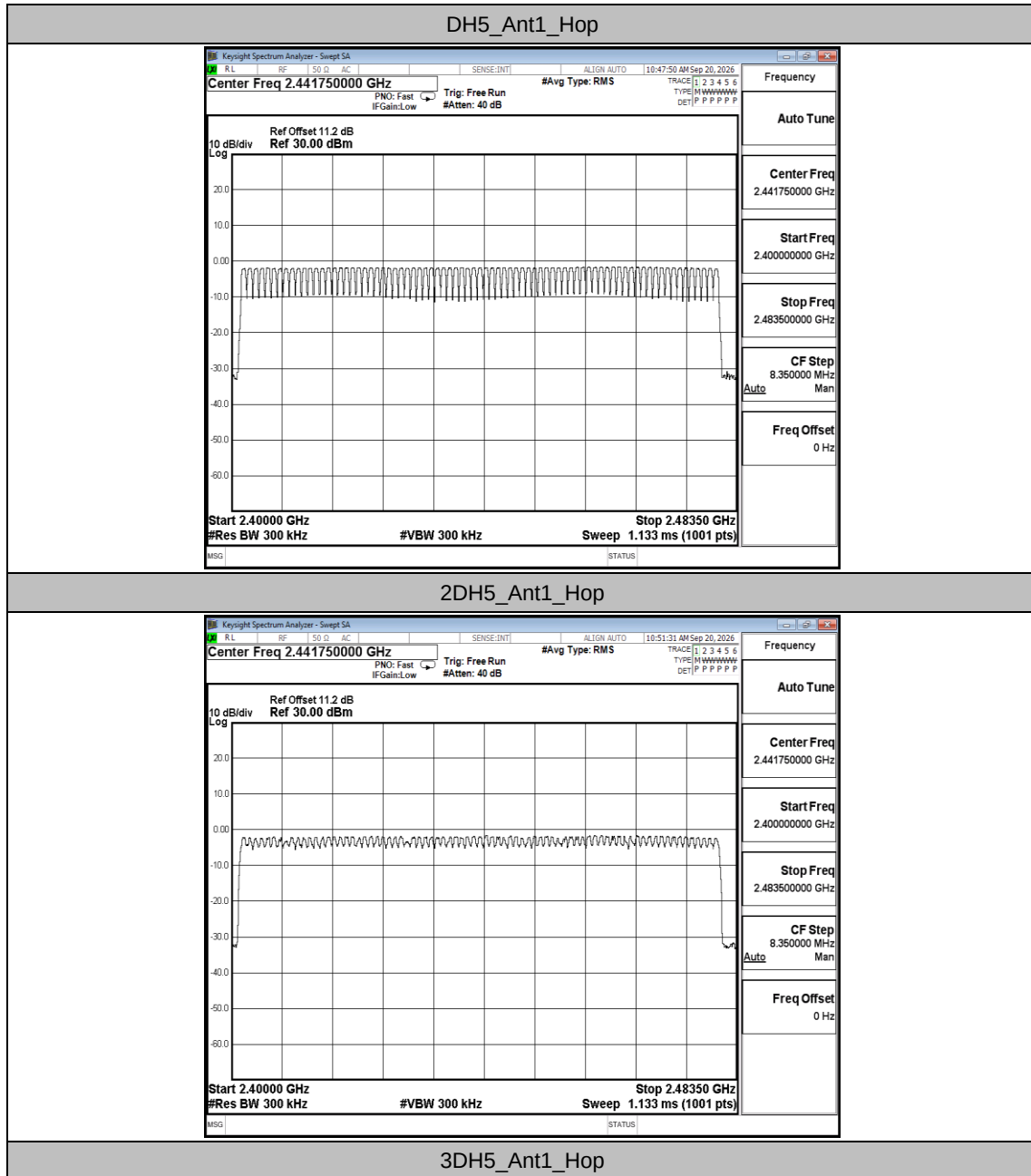


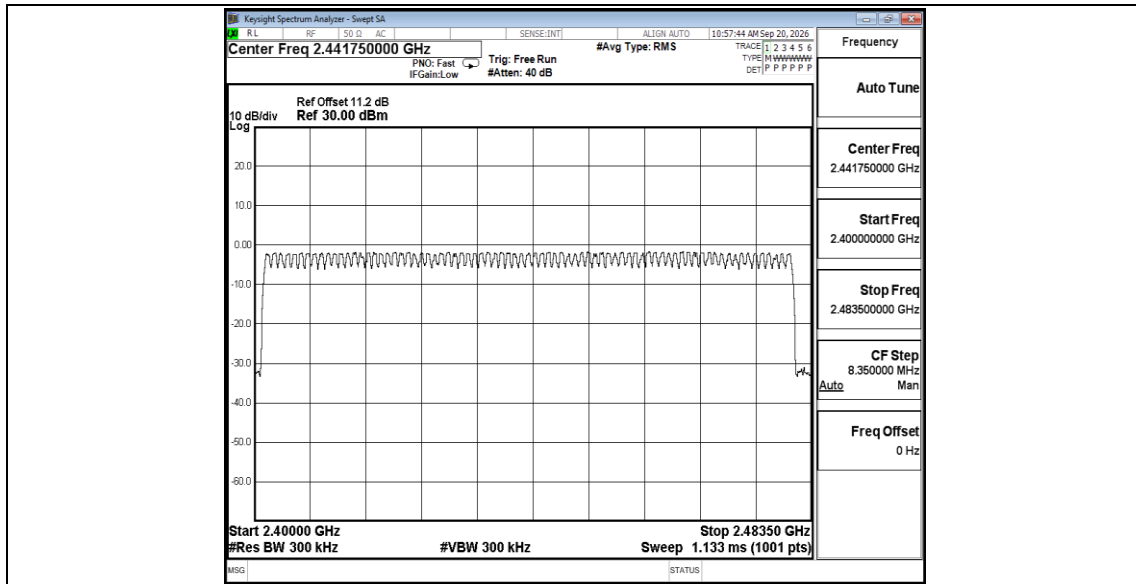
A.5 Number of hopping channels

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



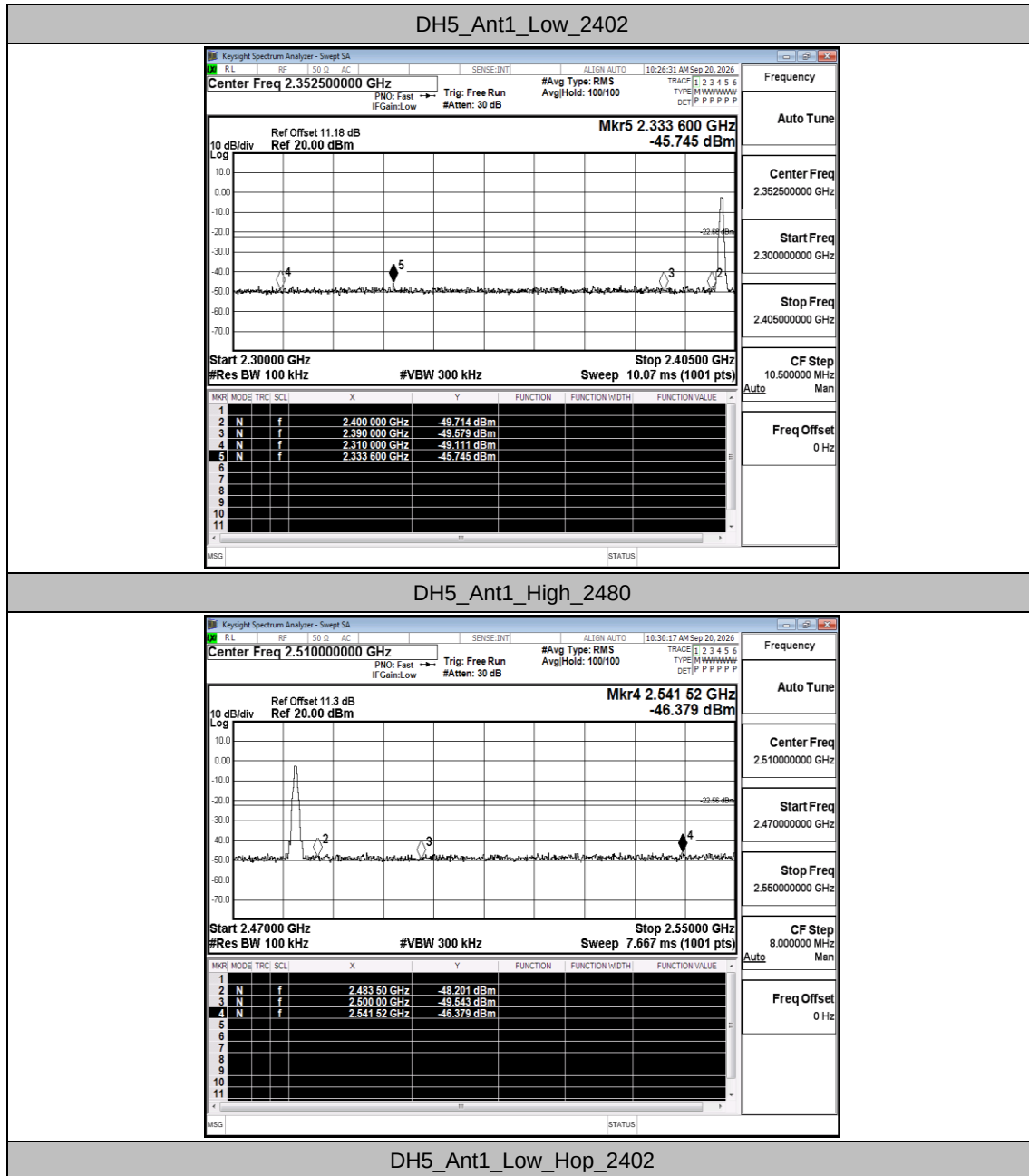


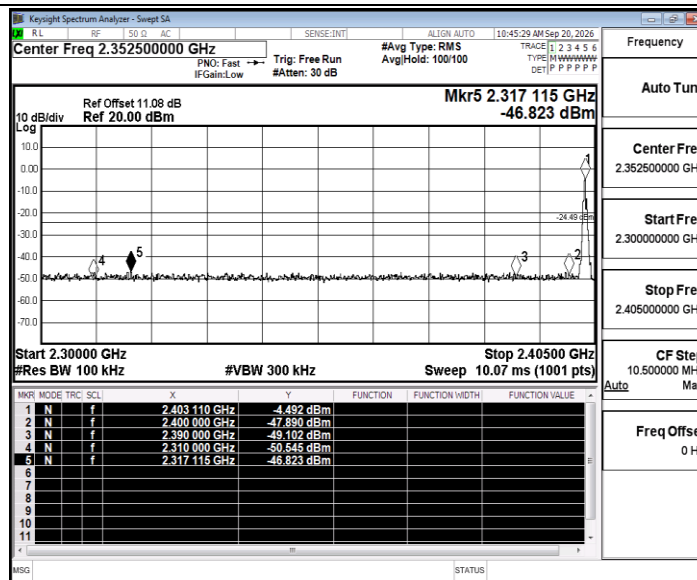
A.6 Band edge measurements

Test Result

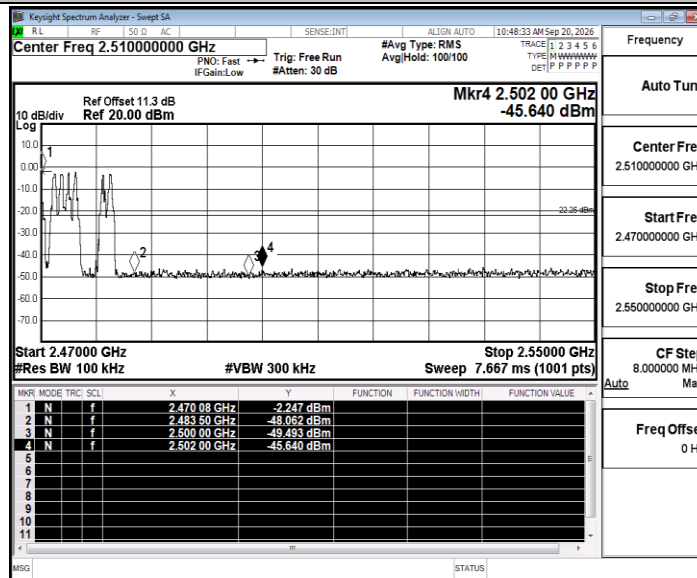
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.66	-45.75	≤ -22.66	PASS
		High	2480	-2.56	-46.38	≤ -22.56	PASS
		Low	Hop_2402	-4.49	-46.82	≤ -24.49	PASS
		High	Hop_2480	-2.25	-45.64	≤ -22.25	PASS
2DH5	Ant1	Low	2402	-2.48	-45.37	≤ -22.48	PASS
		High	2480	-2.38	-46.03	≤ -22.38	PASS
		Low	Hop_2402	-6.59	-45.96	≤ -26.59	PASS
		High	Hop_2480	-4.74	-45.93	≤ -24.74	PASS
3DH5	Ant1	Low	2402	-2.41	-46.07	≤ -22.41	PASS
		High	2480	-2.59	-46.25	≤ -22.59	PASS
		Low	Hop_2402	-6.76	-46.48	≤ -26.76	PASS
		High	Hop_2480	-6.57	-46.42	≤ -26.57	PASS

Test Graphs

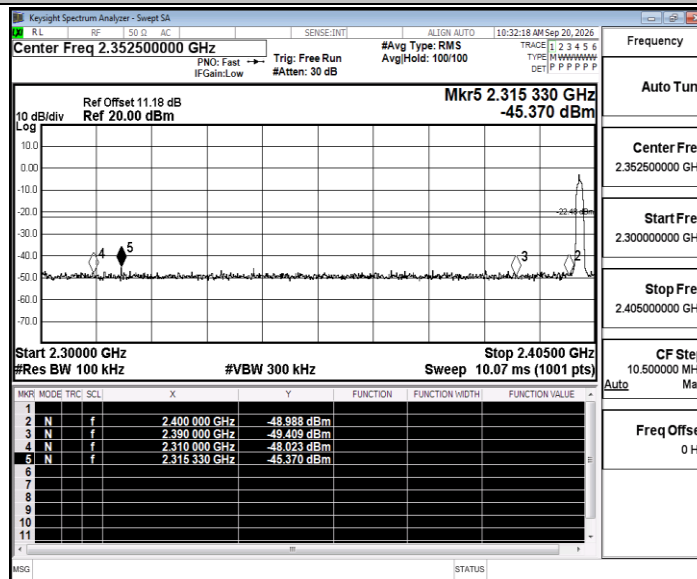




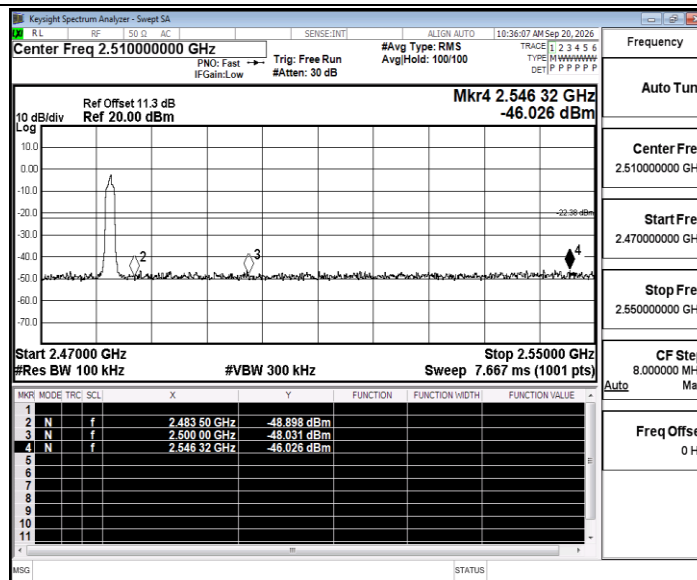
DH5_Ant1_High_Hop_2480



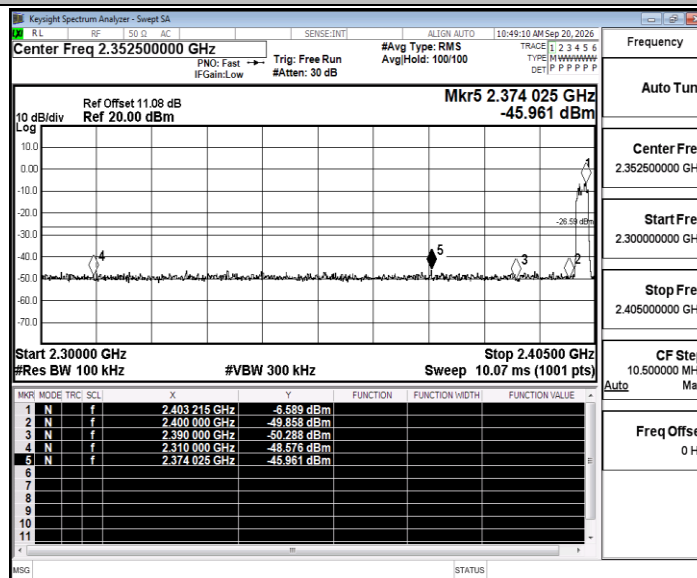
2DH5_Ant1_Low_2402



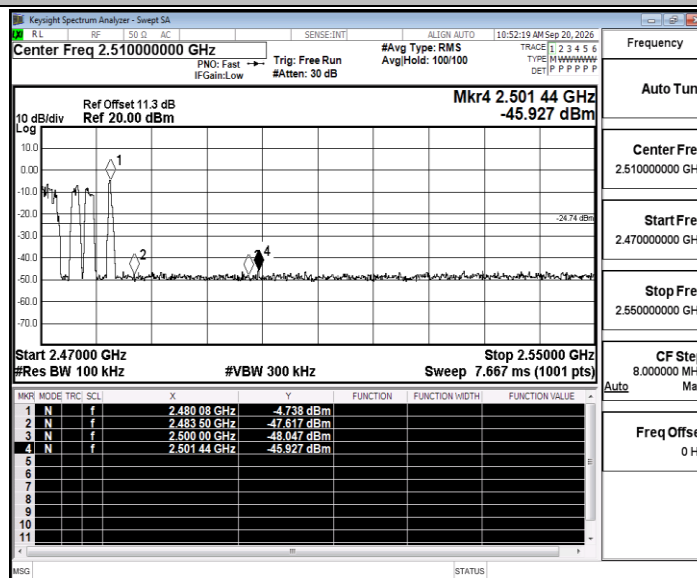
2DH5_Ant1_High_2480



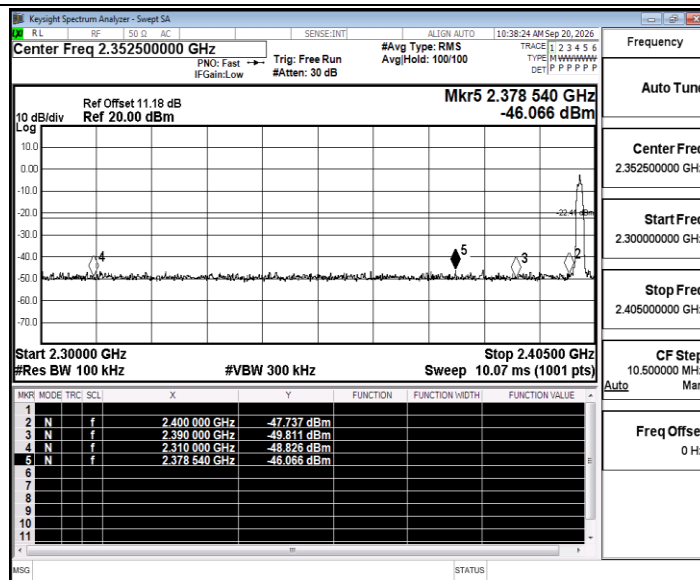
2DH5_Ant1_Low_Hop_2402



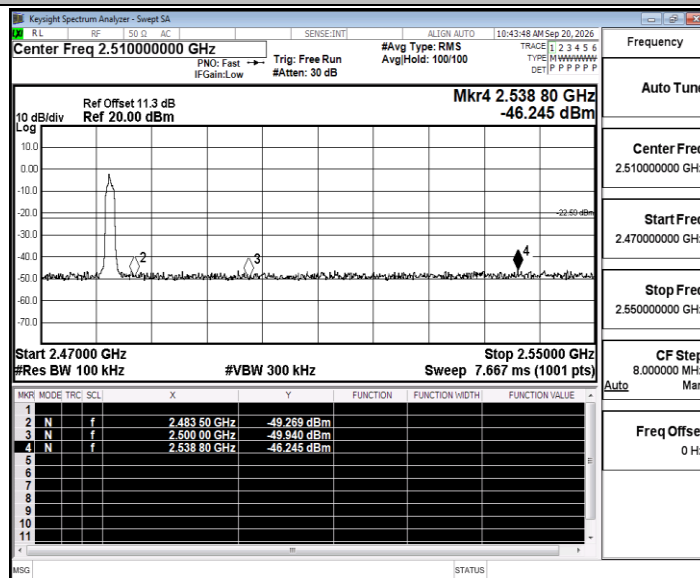
2DH5_Ant1_High_Hop_2480



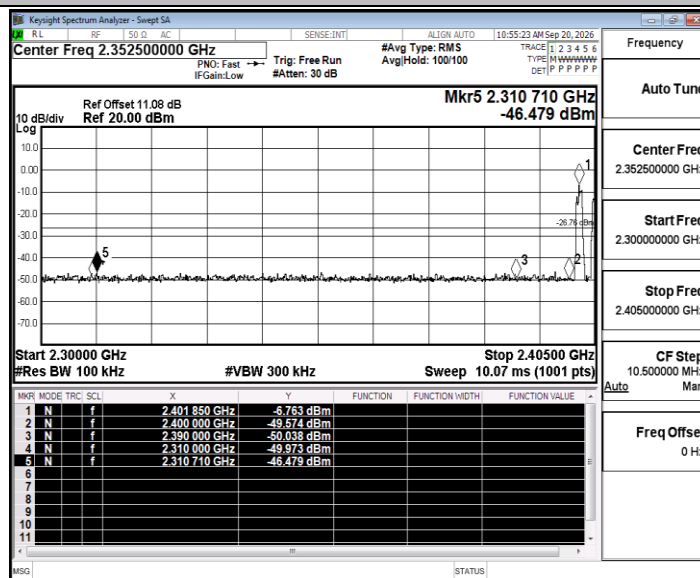
3DH5_Ant1_Low_2402



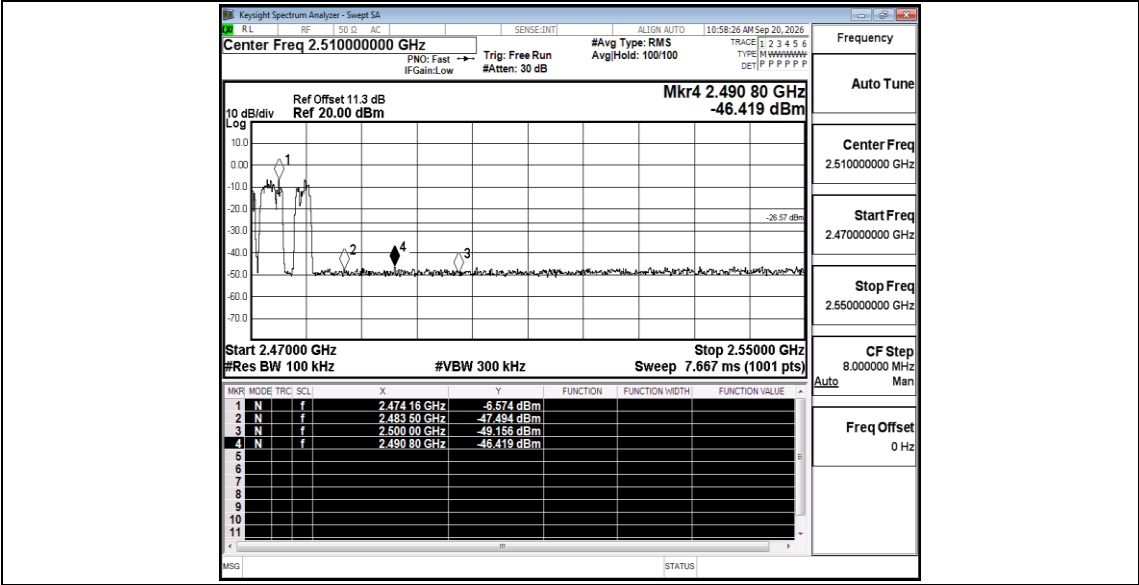
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

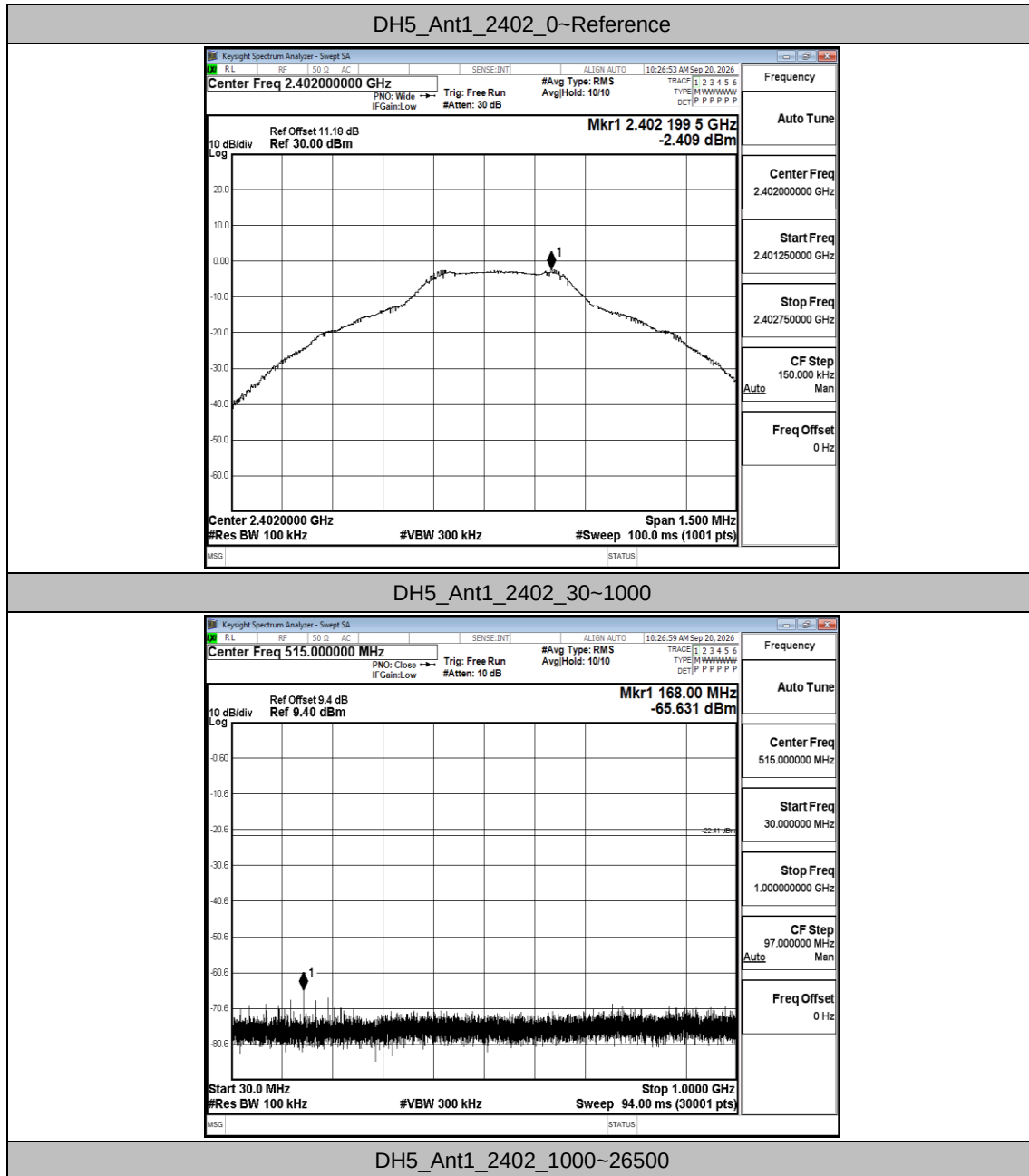


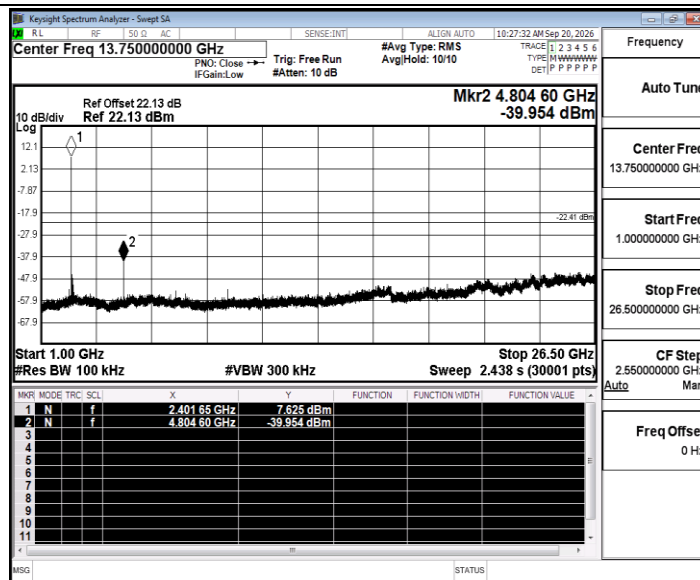
A.7 Conducted Spurious Emission

Test Result

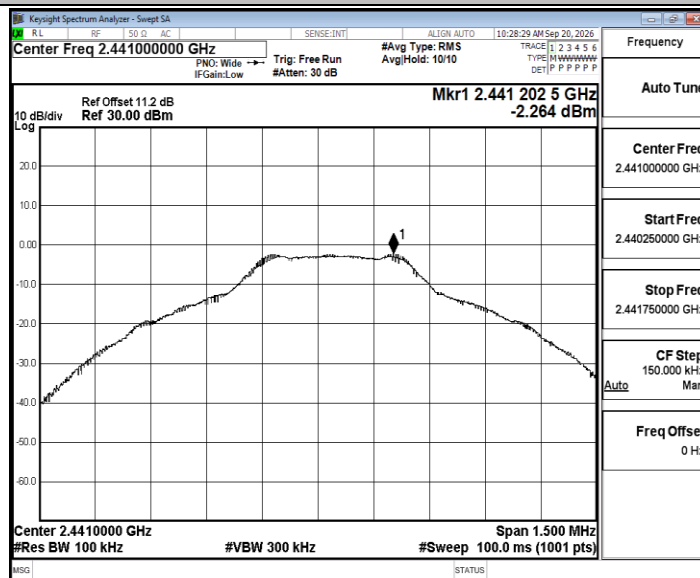
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-65.63	≤-22.41	PASS
			1000~26500	-2.41	-39.95	≤-22.41	PASS
		2441	Reference	-2.26	-2.26	---	PASS
			30~1000	-2.26	-67.25	≤-22.26	PASS
			1000~26500	-2.26	-41.65	≤-22.26	PASS
		2480	Reference	-2.39	-2.39	---	PASS
			30~1000	-2.39	-66.4	≤-22.39	PASS
			1000~26500	-2.39	-40.98	≤-22.39	PASS
2DH5	Ant1	2402	Reference	-2.38	-2.38	---	PASS
			30~1000	-2.38	-66.55	≤-22.38	PASS
			1000~26500	-2.38	-43.5	≤-22.38	PASS
		2441	Reference	-2.40	-2.40	---	PASS
			30~1000	-2.40	-66.51	≤-22.4	PASS
			1000~26500	-2.40	-44.13	≤-22.4	PASS
		2480	Reference	-2.36	-2.36	---	PASS
			30~1000	-2.36	-66.18	≤-22.36	PASS
			1000~26500	-2.36	-44.67	≤-22.36	PASS
3DH5	Ant1	2402	Reference	-2.42	-2.42	---	PASS
			30~1000	-2.42	-68.02	≤-22.42	PASS
			1000~26500	-2.42	-40.17	≤-22.42	PASS
		2441	Reference	-2.26	-2.26	---	PASS
			30~1000	-2.26	-68.05	≤-22.26	PASS
			1000~26500	-2.26	-43.71	≤-22.26	PASS
		2480	Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-63.95	≤-22.41	PASS
			1000~26500	-2.41	-45.01	≤-22.41	PASS

Test Graphs

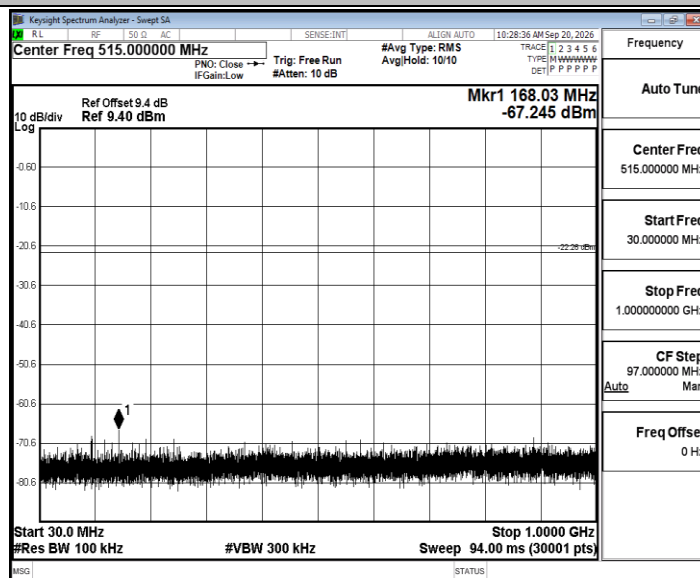




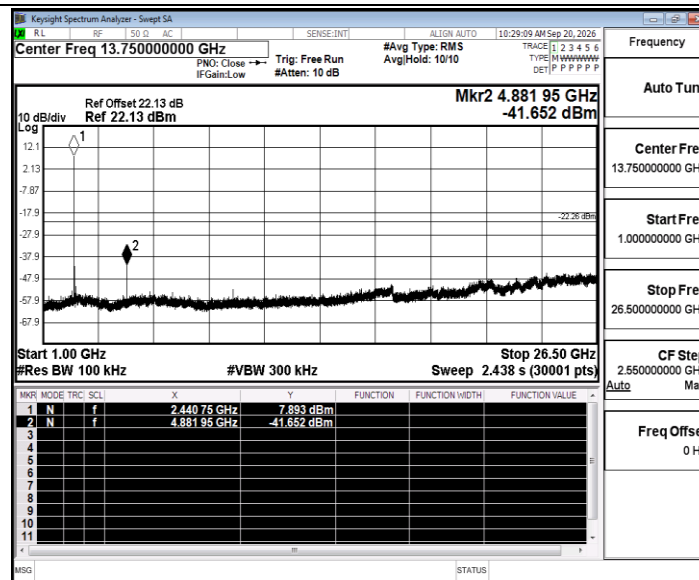
DH5_Ant1_2441_0~Reference



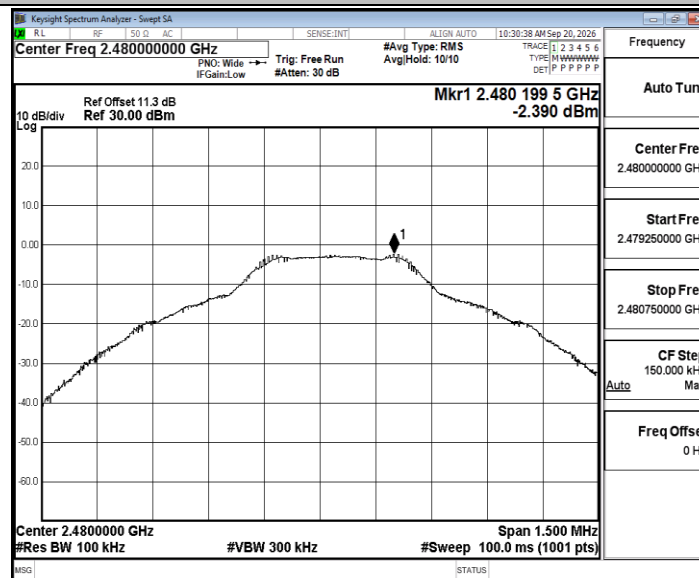
DH5_Ant1_2441_30~1000



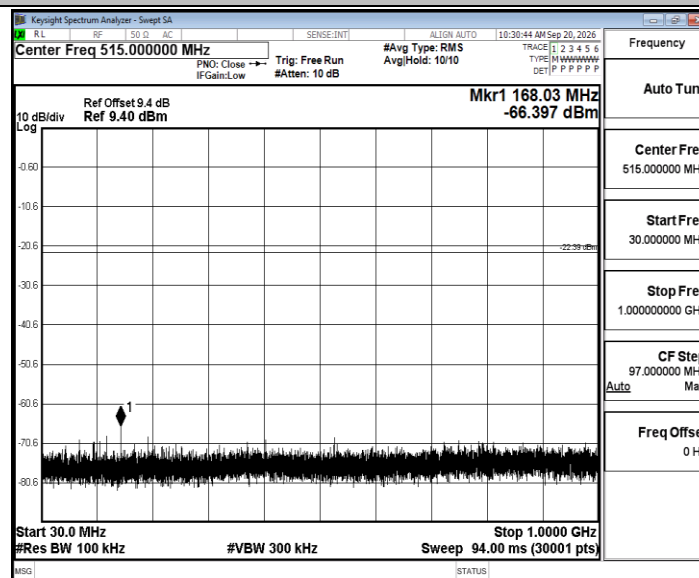
DH5_Ant1_2441_1000~26500



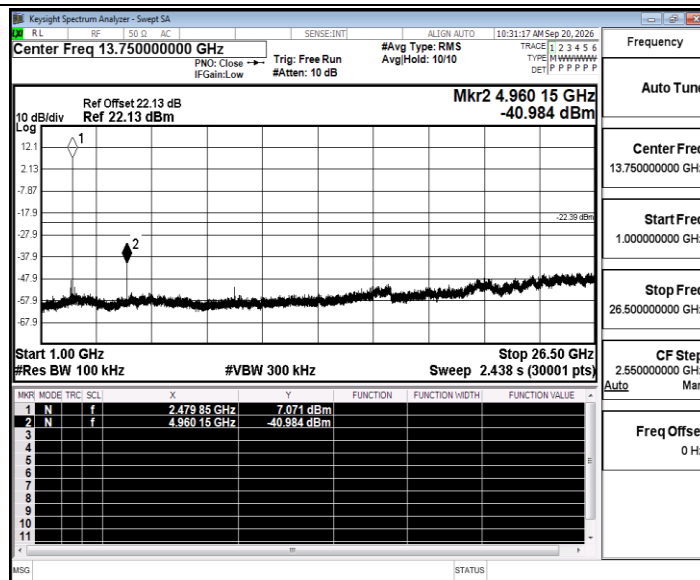
DH5_Ant1_2480_0~Reference



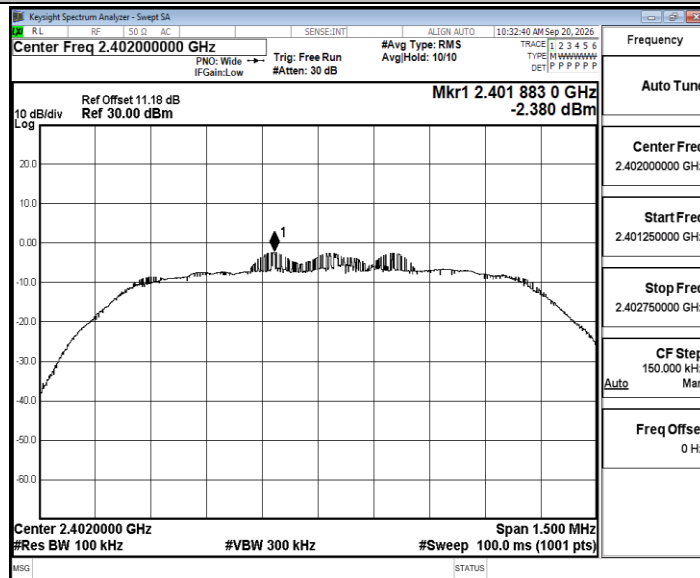
DH5_Ant1_2480_30~1000



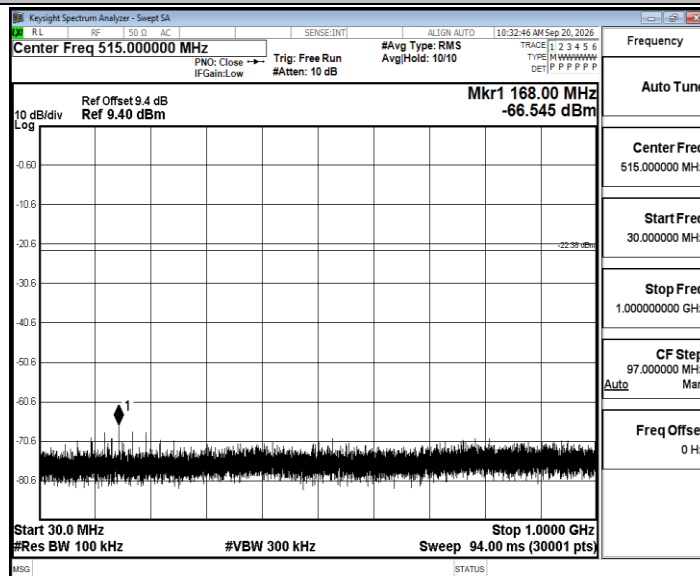
DH5_Ant1_2480_1000~26500



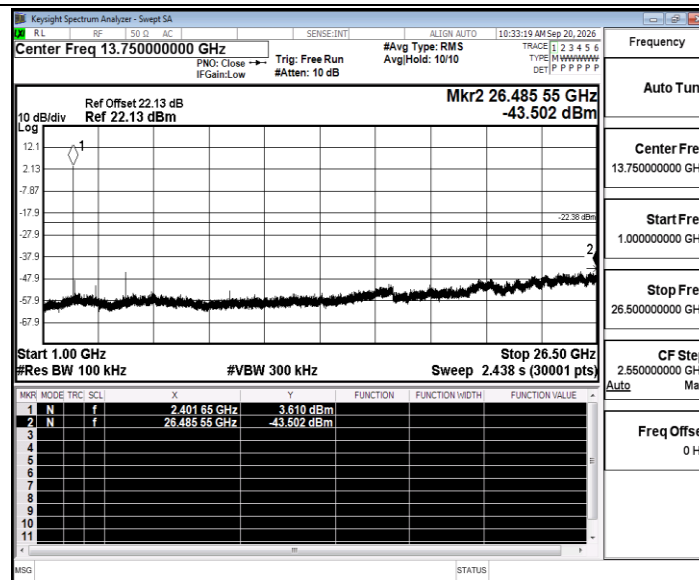
2DH5_Ant1_2402_0~Reference



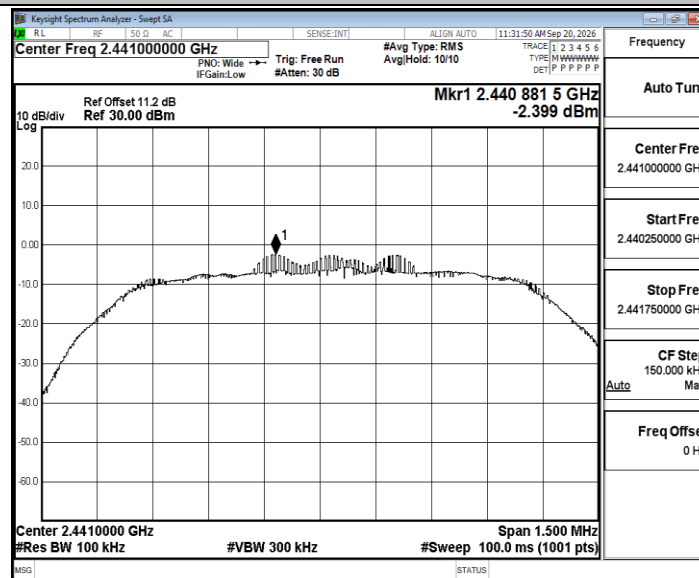
2DH5_Ant1_2402_30~1000



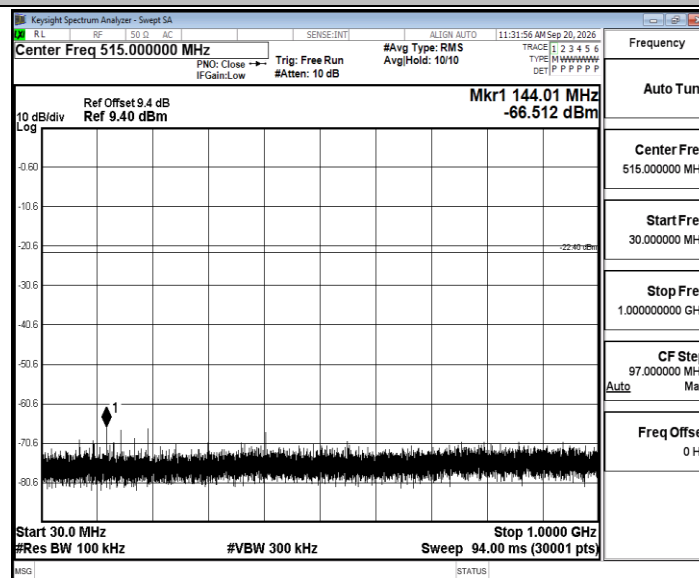
2DH5_Ant1_2402_1000~26500



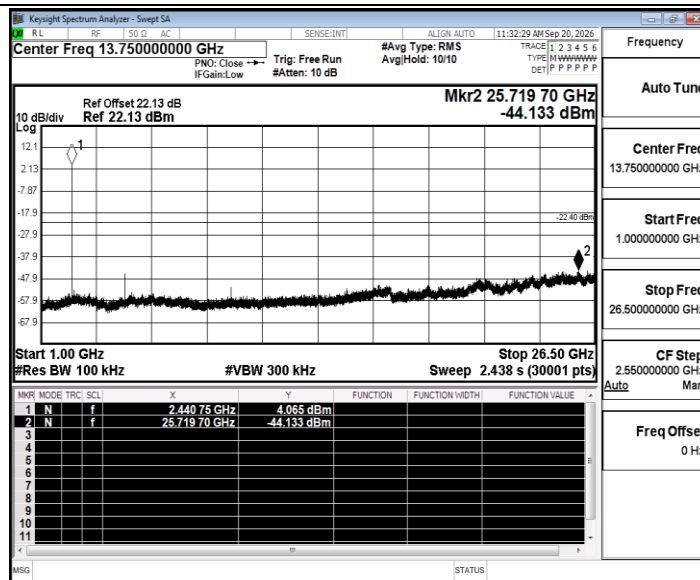
2DH5_Ant1_2441_0~Reference



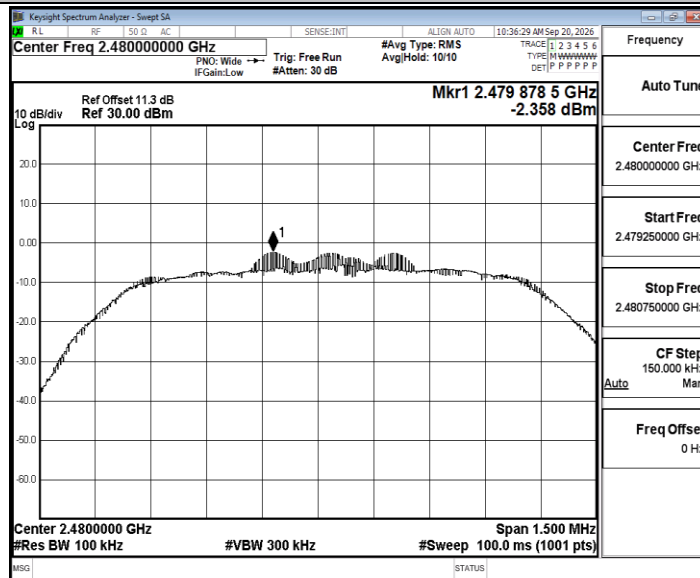
2DH5_Ant1_2441_30~1000



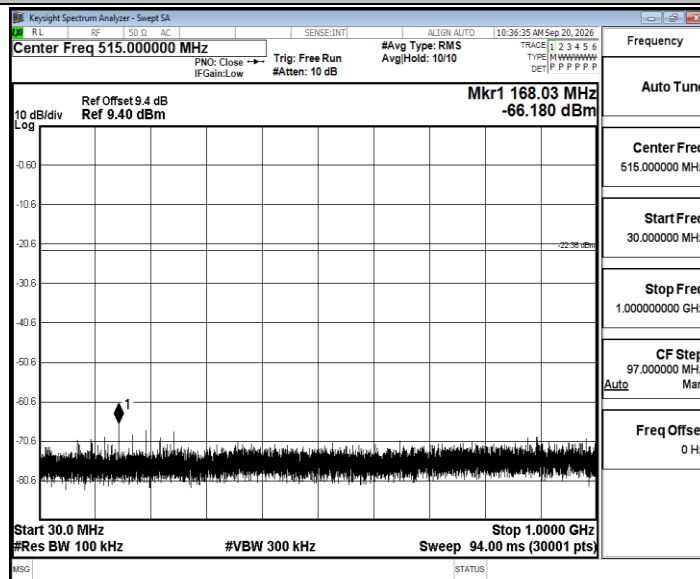
2DH5_Ant1_2441_1000~26500



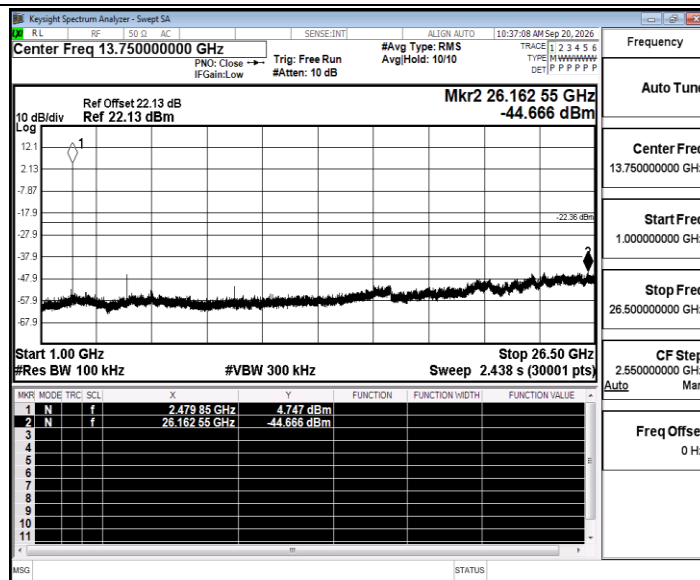
2DH5_Ant1_2480_0~Reference



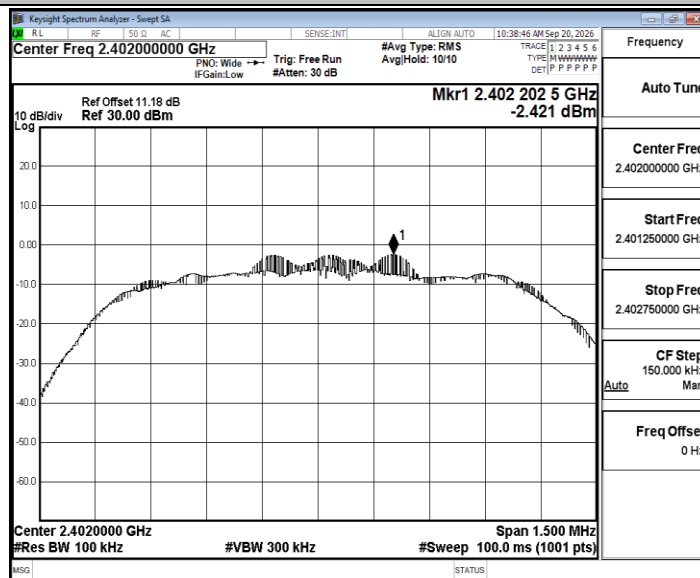
2DH5_Ant1_2480_30~1000



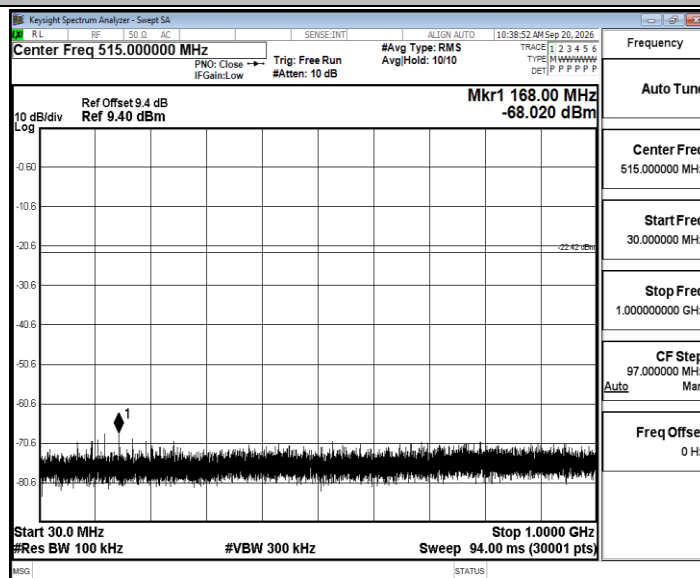
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500