

Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Wireless Headphone

Trade Mark: /

Test Model: T50

FCC ID: 2BCRG-T50

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.957	2401.532	2402.489	---	---
DH5	Ant1	2441	0.954	2440.538	2441.492	---	---
DH5	Ant1	2480	0.954	2479.535	2480.489	---	---
2DH5	Ant1	2402	1.317	2401.343	2402.660	---	---
2DH5	Ant1	2441	1.293	2440.367	2441.660	---	---
2DH5	Ant1	2480	1.317	2479.343	2480.660	---	---

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480

Appendix B: Occupied Channel Bandwidth

Test Result

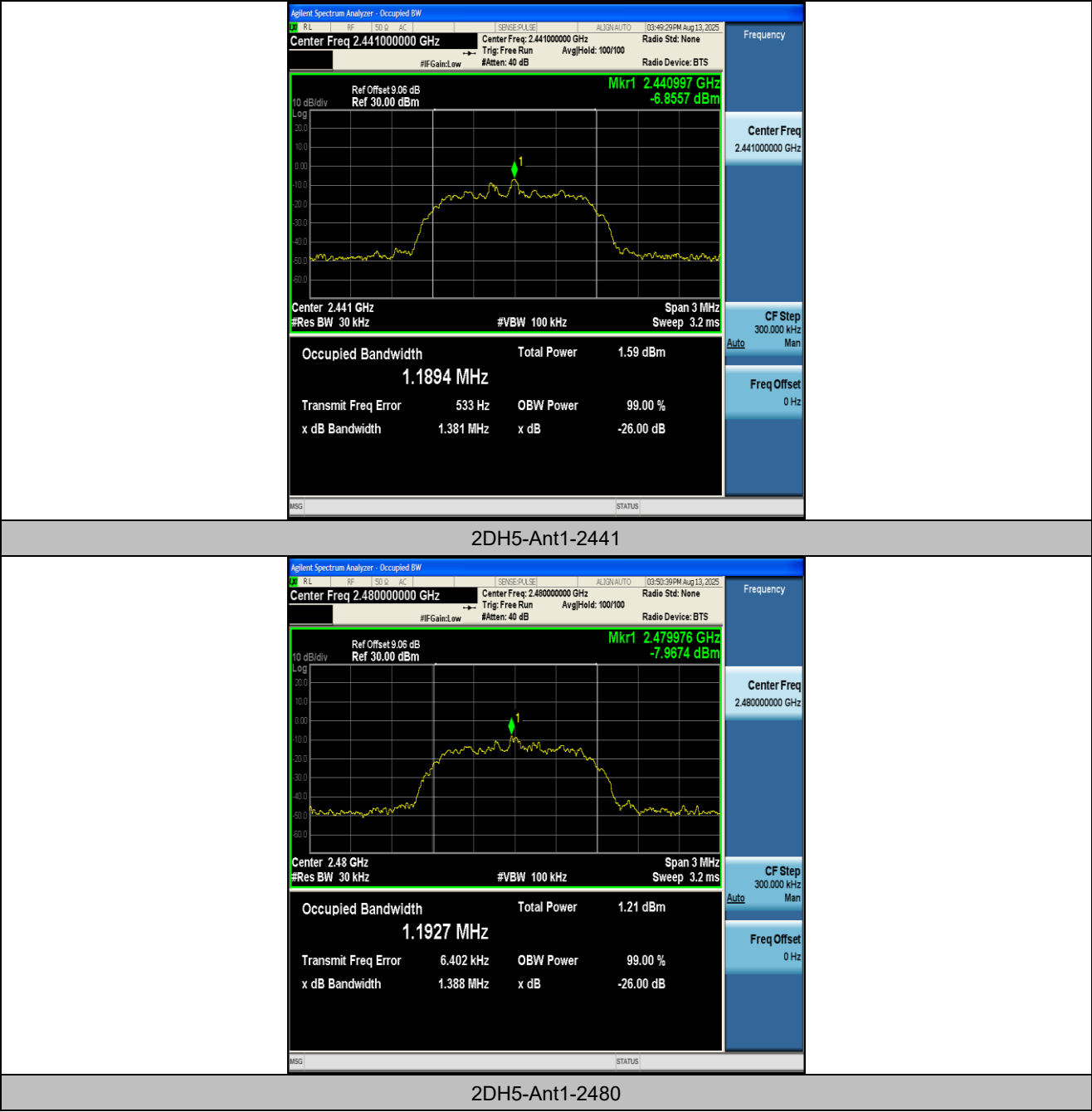
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.88922	2401.5570	2402.4462	---	---
DH5	Ant1	2441	0.87986	2440.5624	2441.4423	---	---
DH5	Ant1	2480	0.87754	2479.5588	2480.4364	---	---
2DH5	Ant1	2402	1.1902	2401.4096	2402.5998	---	---
2DH5	Ant1	2441	1.1894	2440.4058	2441.5952	---	---
2DH5	Ant1	2480	1.1927	2479.4101	2480.6028	---	---

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs







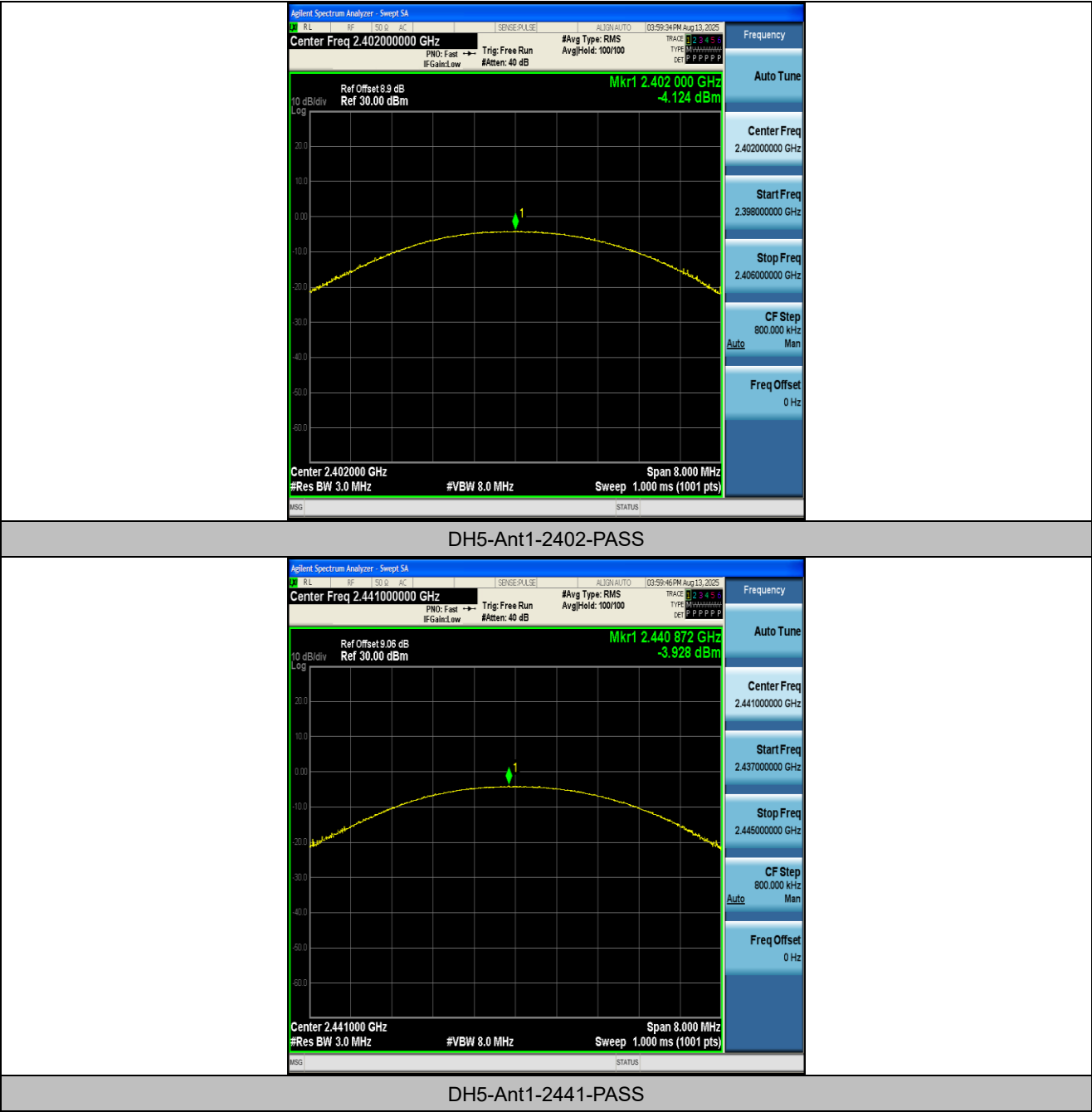
Appendix C: Maximum peak conducted output power

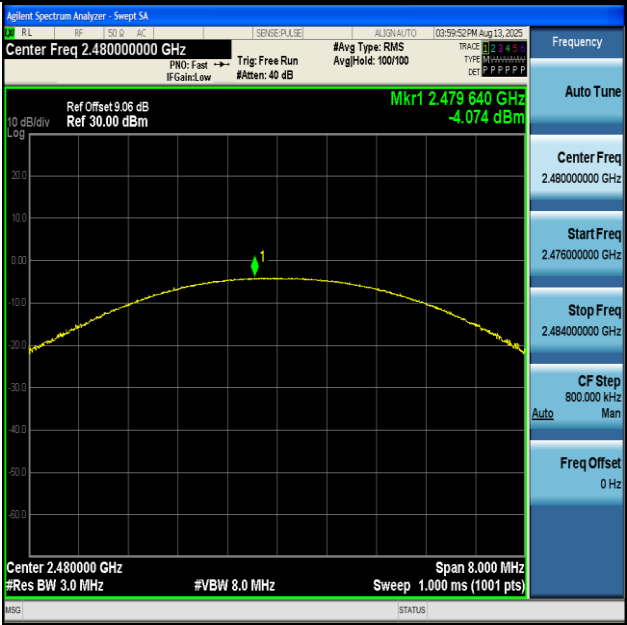
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-4.12	≤30	PASS
DH5	Ant1	2441	-3.93	≤30	PASS
DH5	Ant1	2480	-4.07	≤30	PASS
2DH5	Ant1	2402	-3.48	≤20.97	PASS
2DH5	Ant1	2441	-3.51	≤20.97	PASS
2DH5	Ant1	2480	-3.39	≤20.97	PASS

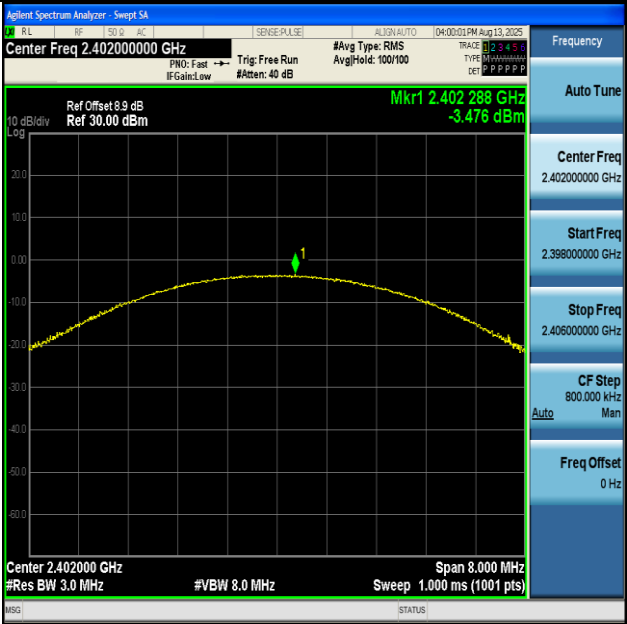
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

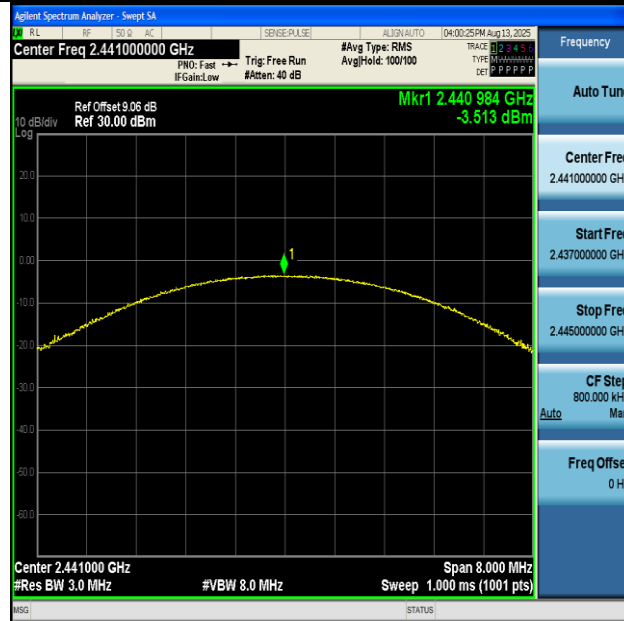




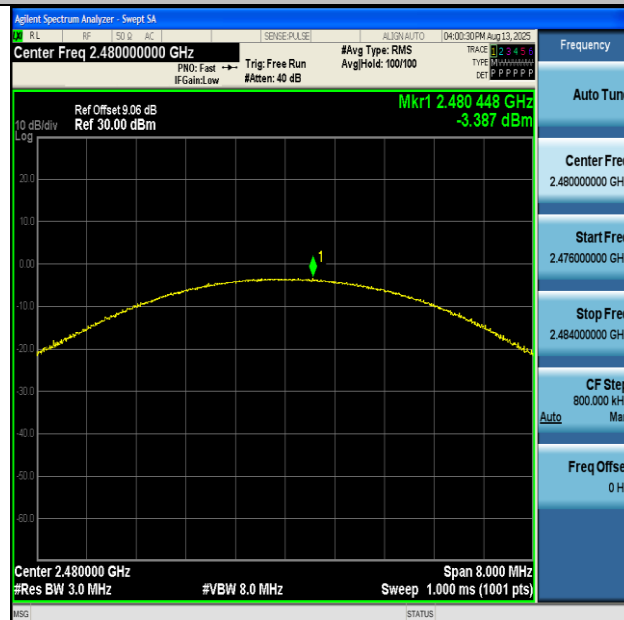
DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS



2DH5-Ant1-2480-PASS

Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.984	≥0.957	PASS
2DH5	Ant1	Hop	1.006	≥0.878	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs



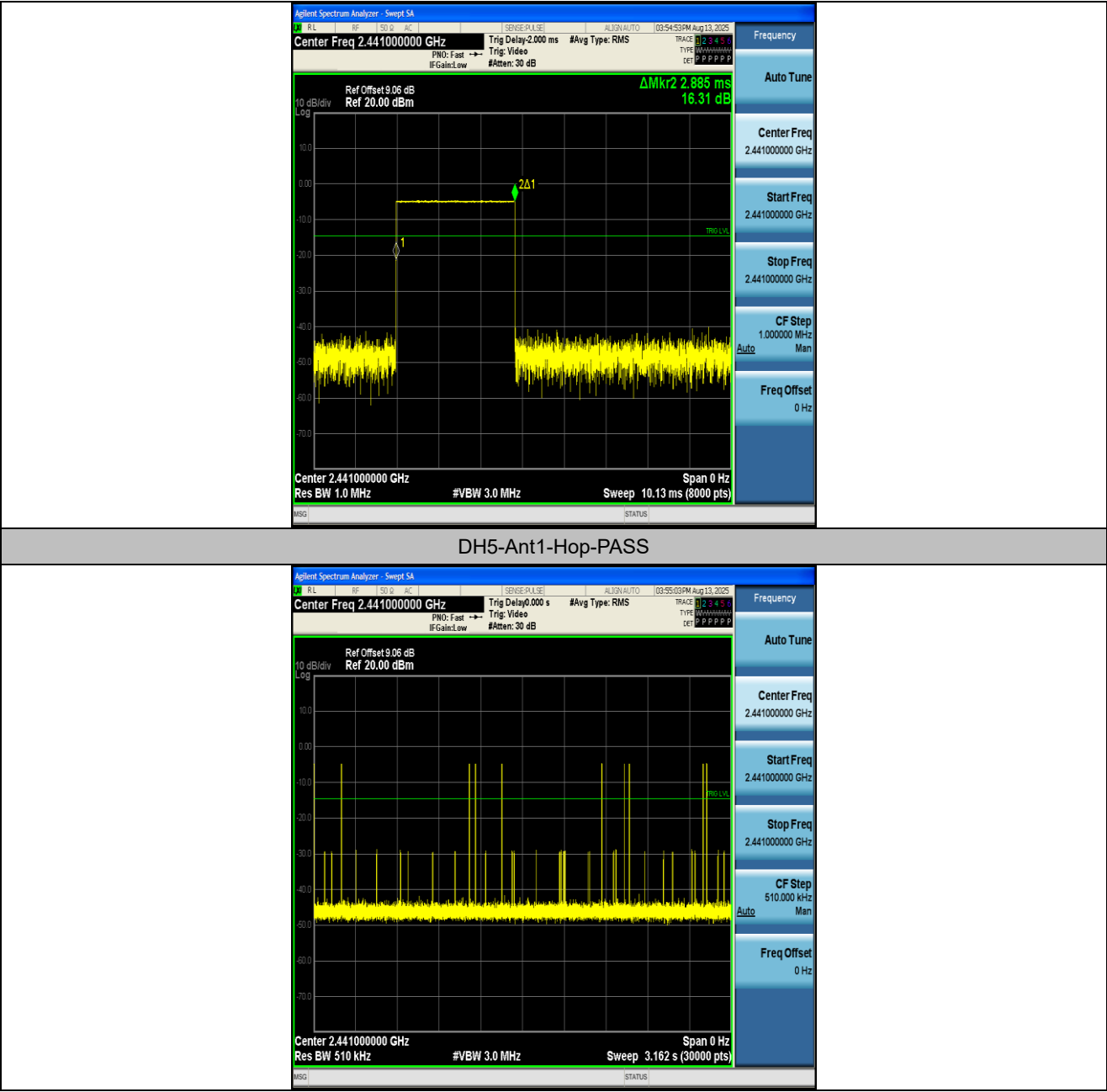
Appendix E: Time of occupancy

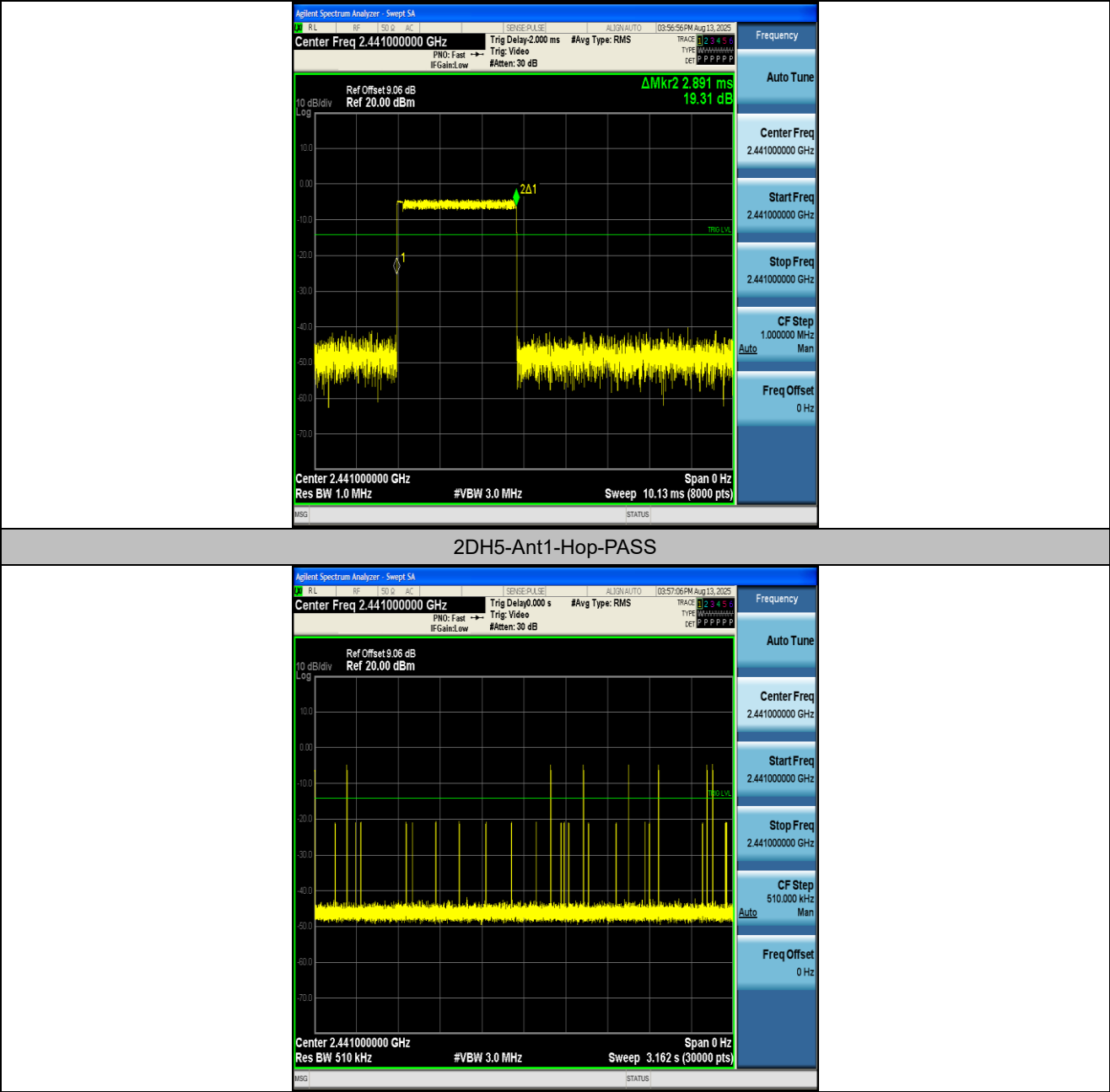
Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.885	100	0.289	≤0.4	PASS
2DH5	Ant1	Hop	2.891	80	0.231	≤0.4	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





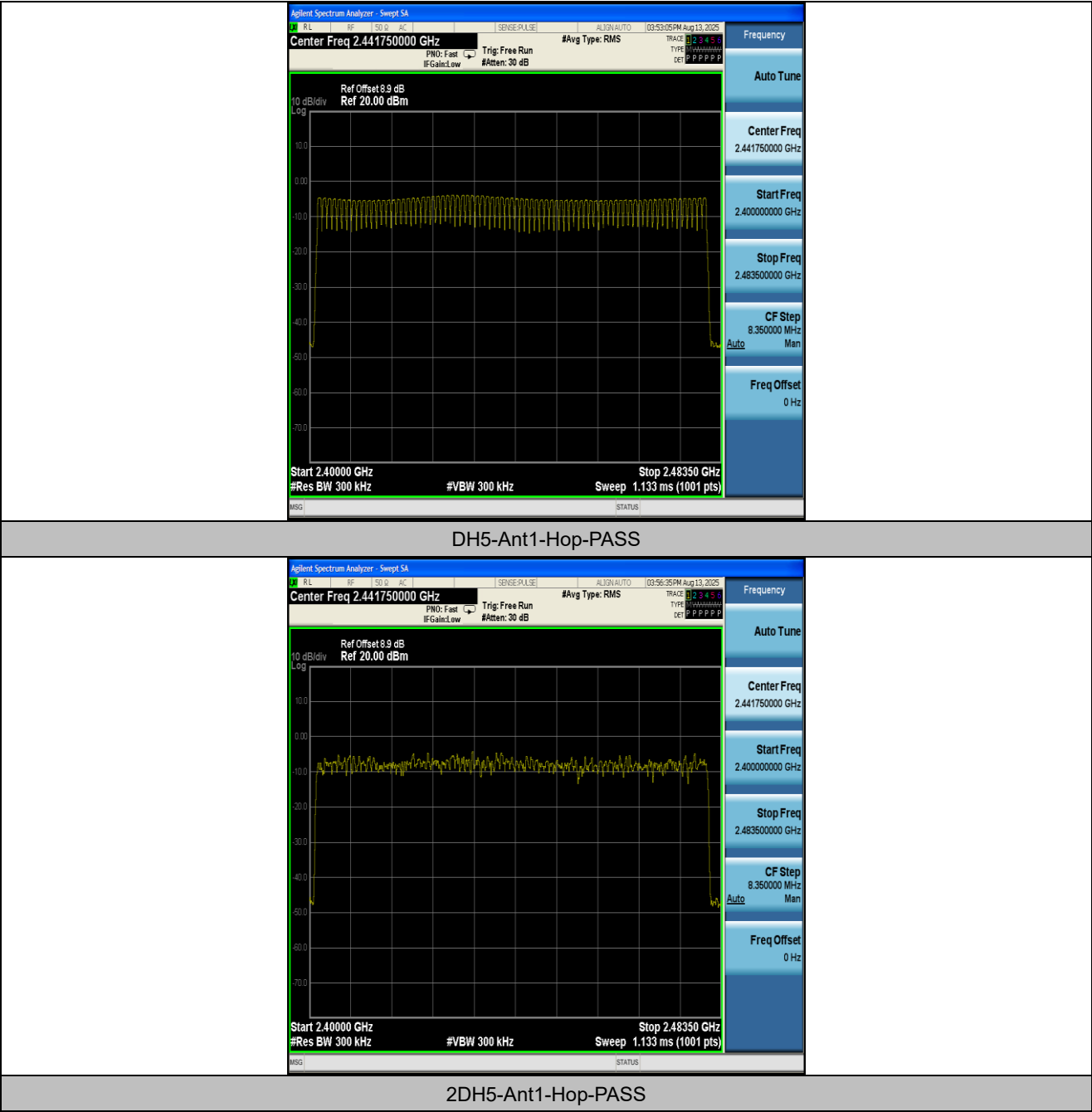
Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs



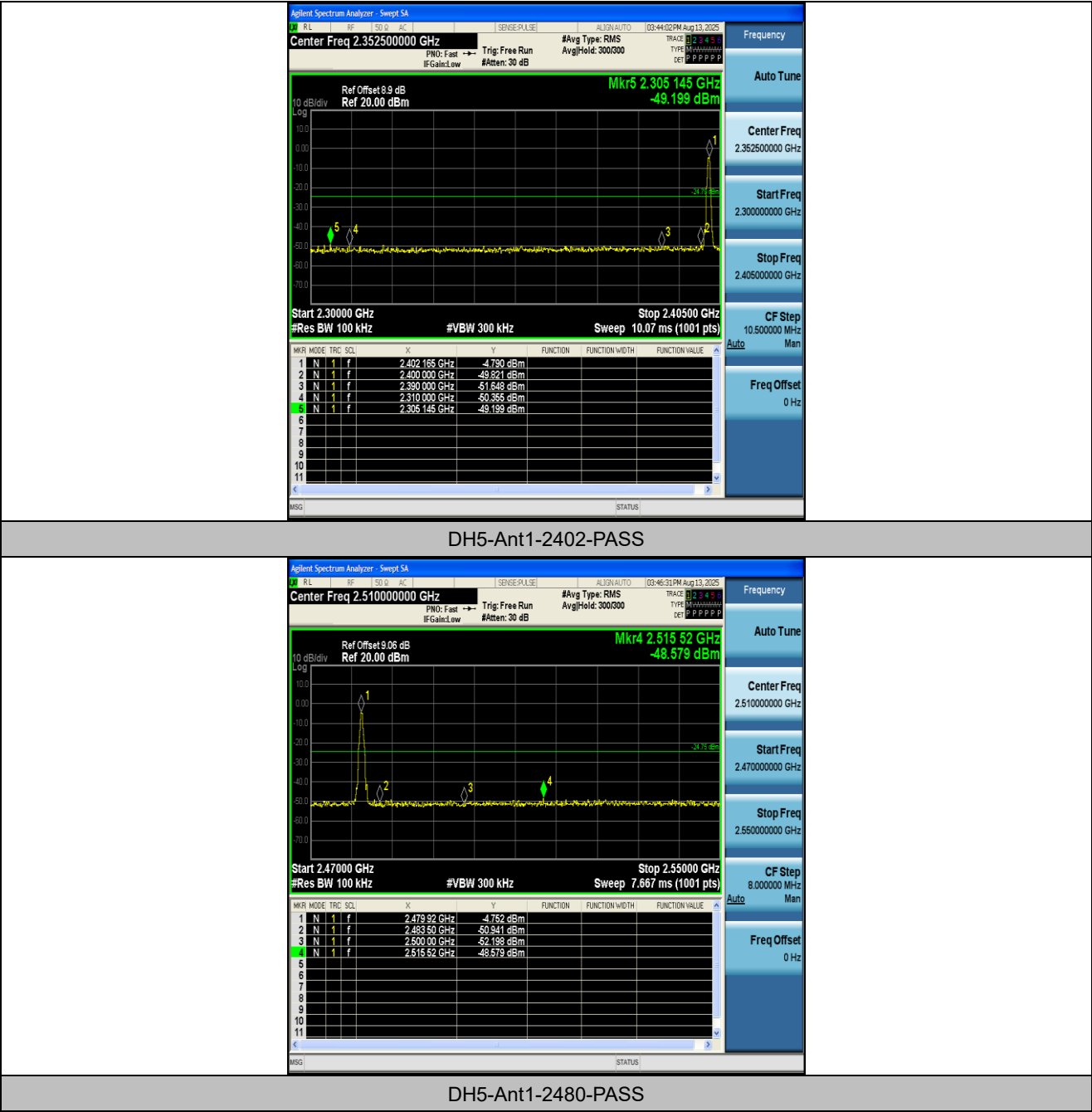
Appendix G: Band edge measurements

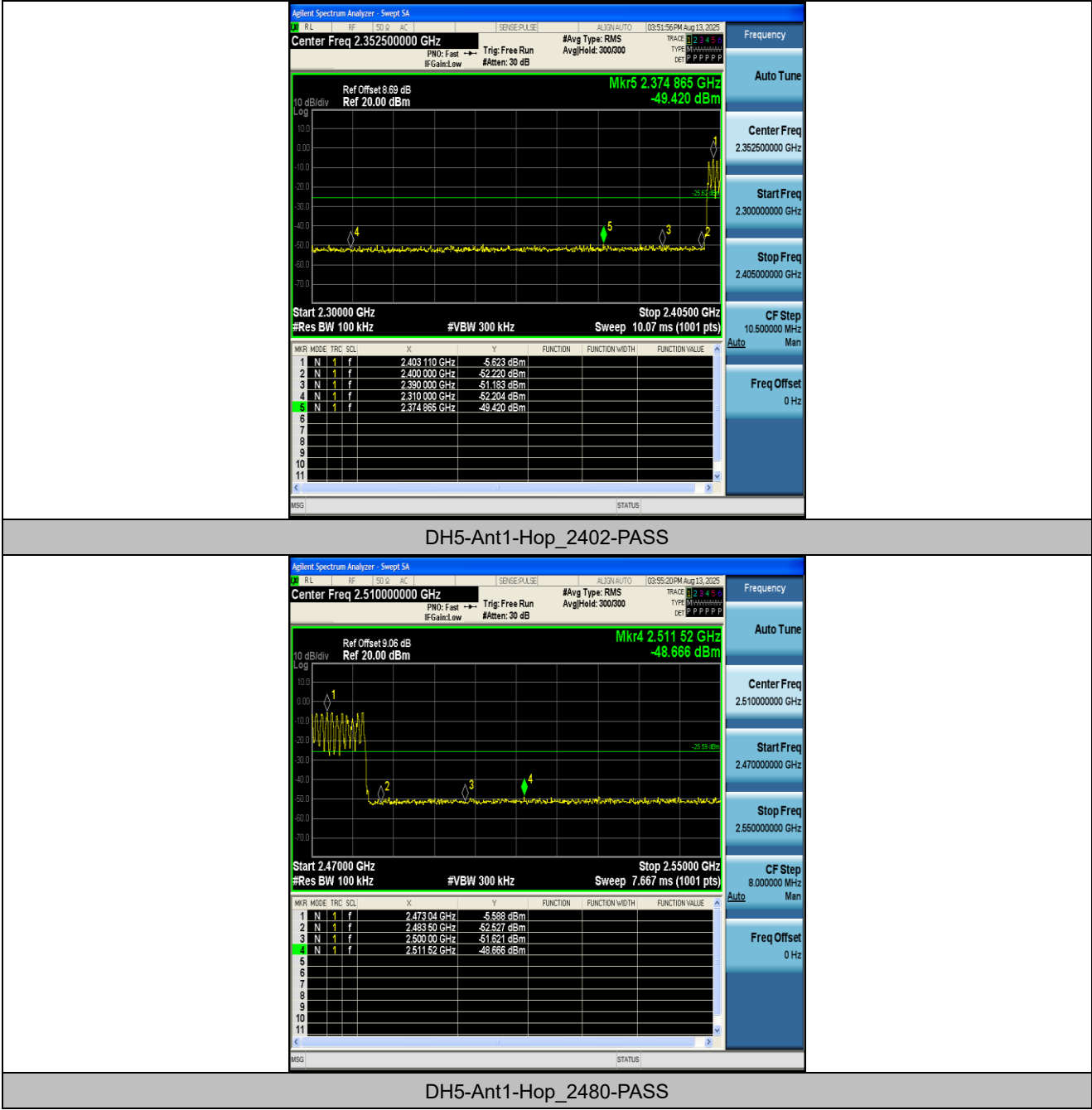
Test Result

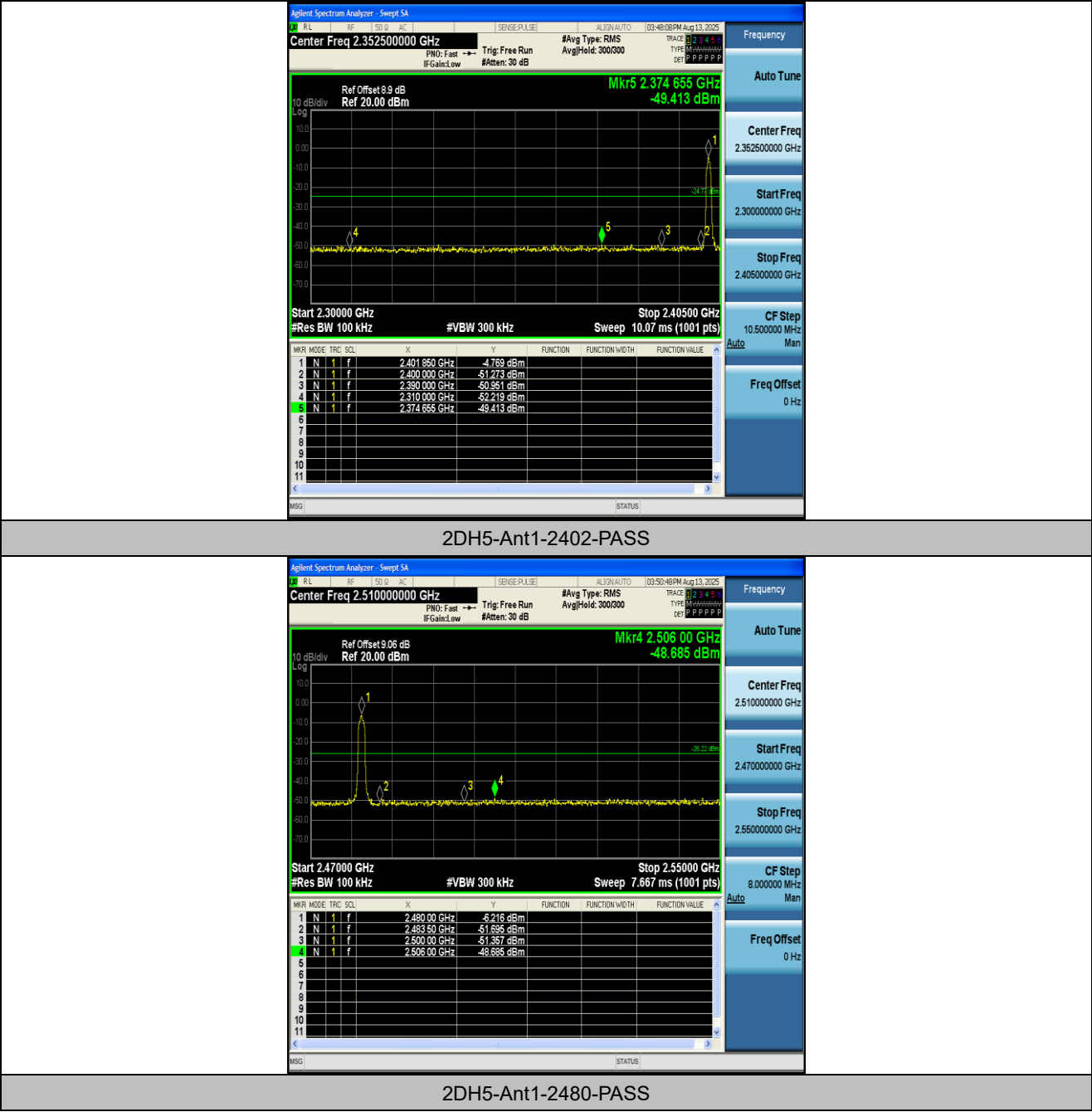
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.79	-49.2	≤-24.79	PASS
DH5	Ant1	High	2480	-4.75	-48.58	≤-24.75	PASS
DH5	Ant1	Low	Hop_2402	-5.62	-49.42	≤-25.62	PASS
DH5	Ant1	High	Hop_2480	-5.59	-48.67	≤-25.59	PASS
2DH5	Ant1	Low	2402	-4.77	-49.41	≤-24.77	PASS
2DH5	Ant1	High	2480	-6.22	-48.69	≤-26.22	PASS
2DH5	Ant1	Low	Hop_2402	-9.37	-48.53	≤-29.37	PASS
2DH5	Ant1	High	Hop_2480	-7.84	-48.67	≤-27.84	PASS

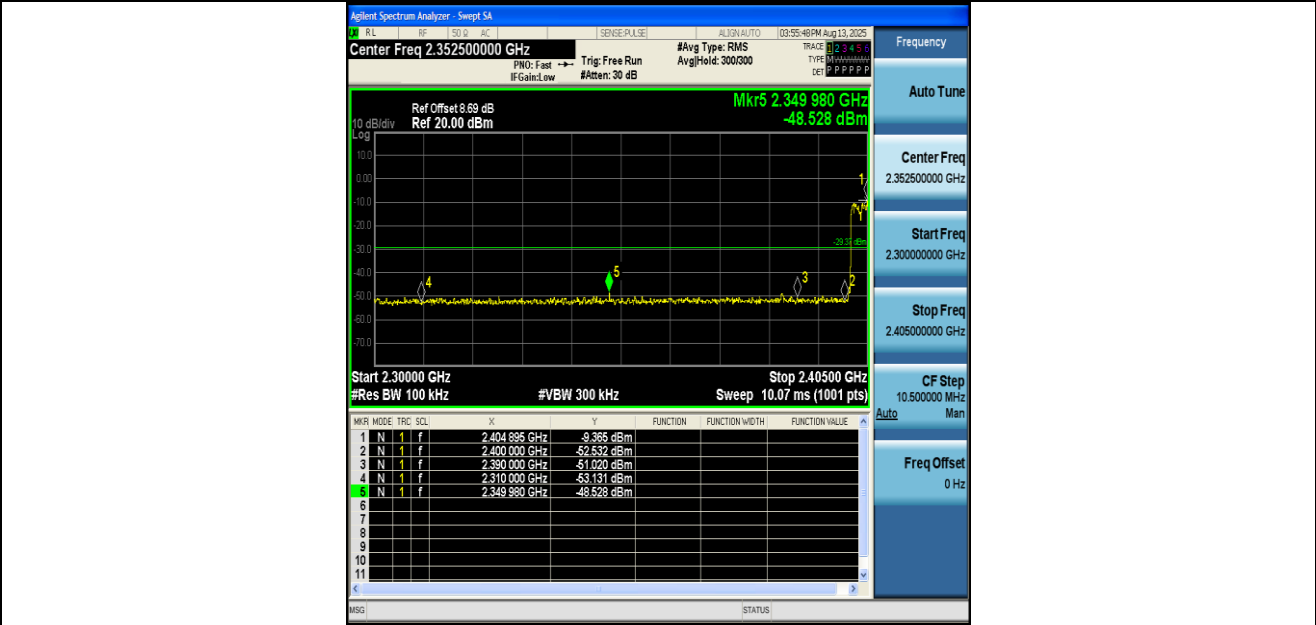
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

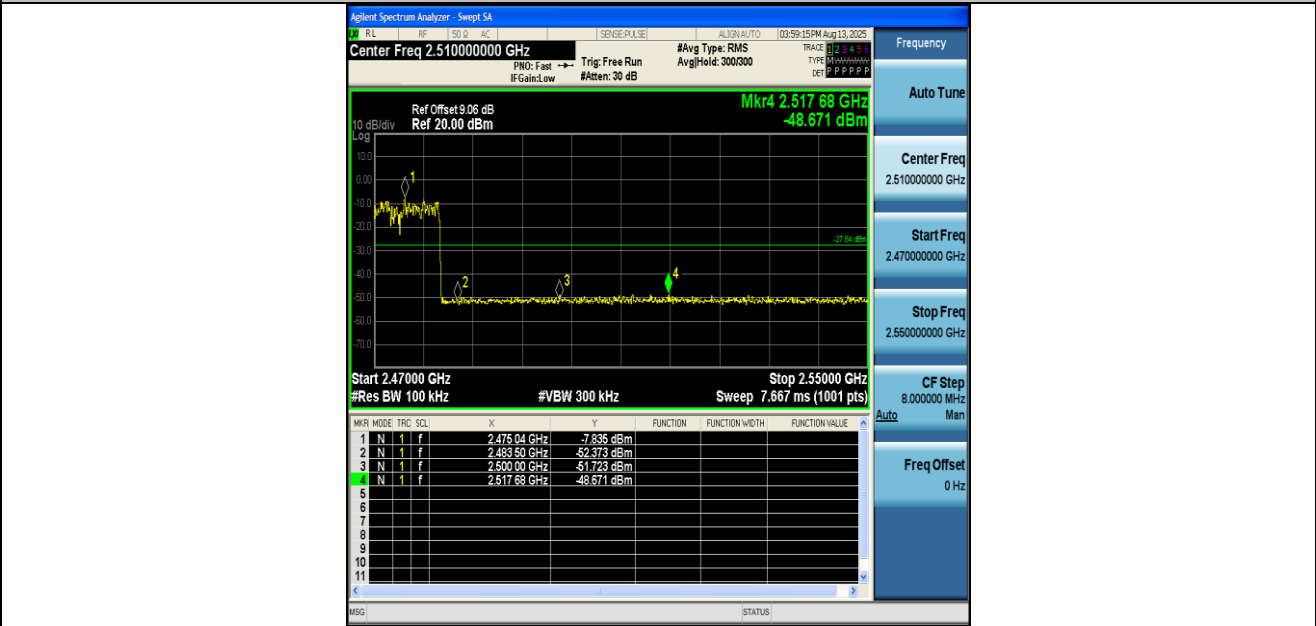








2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS

Appendix H: Conducted Spurious Emission

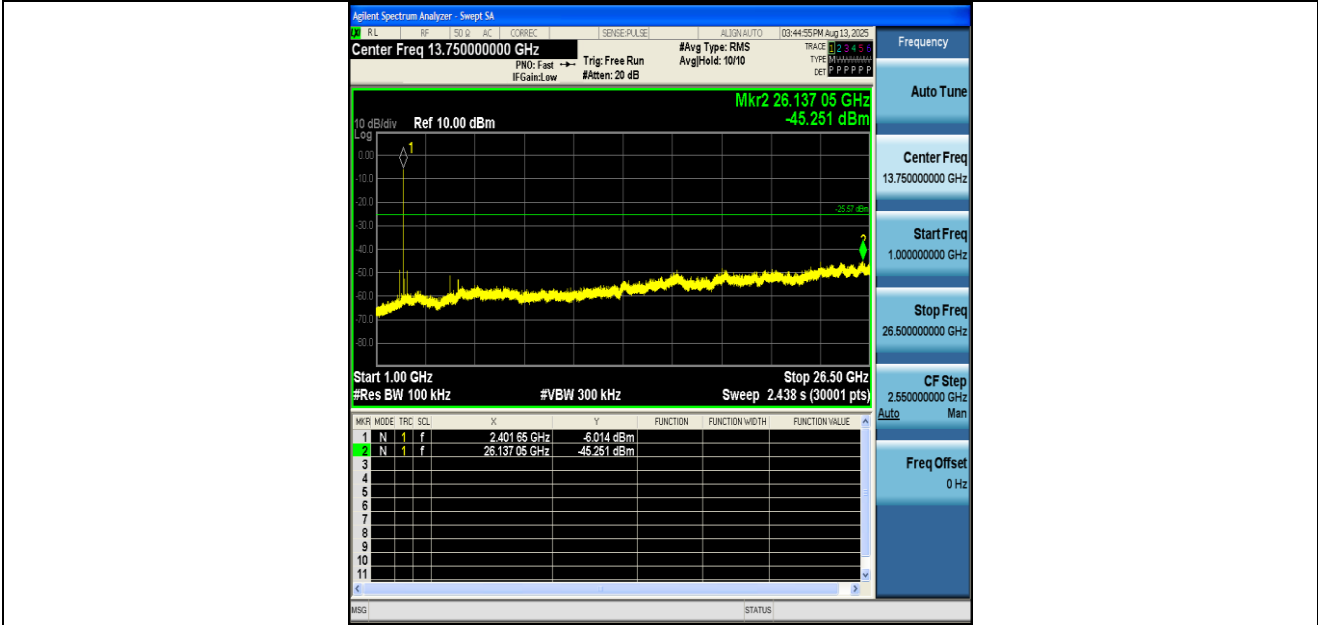
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-5.57	-5.57	---	PASS
DH5	Ant1	2402	30~1000	-5.57	-63.1	≤-25.57	PASS
DH5	Ant1	2402	1000~26500	-5.57	-45.25	≤-25.57	PASS
DH5	Ant1	2441	0~Reference	-5.22	-5.22	---	PASS
DH5	Ant1	2441	30~1000	-5.22	-52.73	≤-25.22	PASS
DH5	Ant1	2441	1000~26500	-5.22	-45.29	≤-25.22	PASS
DH5	Ant1	2480	0~Reference	-4.82	-4.82	---	PASS
DH5	Ant1	2480	30~1000	-4.82	-61.98	≤-24.82	PASS
DH5	Ant1	2480	1000~26500	-4.82	-45.69	≤-24.82	PASS
2DH5	Ant1	2402	0~Reference	-4.99	-4.99	---	PASS
2DH5	Ant1	2402	30~1000	-4.99	-61.93	≤-24.99	PASS
2DH5	Ant1	2402	1000~26500	-4.99	-44.66	≤-24.99	PASS
2DH5	Ant1	2441	0~Reference	-4.99	-4.99	---	PASS
2DH5	Ant1	2441	30~1000	-4.99	-63.57	≤-24.99	PASS
2DH5	Ant1	2441	1000~26500	-4.99	-44.75	≤-24.99	PASS
2DH5	Ant1	2480	0~Reference	-7.41	-7.41	---	PASS
2DH5	Ant1	2480	30~1000	-7.41	-62.65	≤-27.41	PASS
2DH5	Ant1	2480	1000~26500	-7.41	-45.29	≤-27.41	PASS

Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

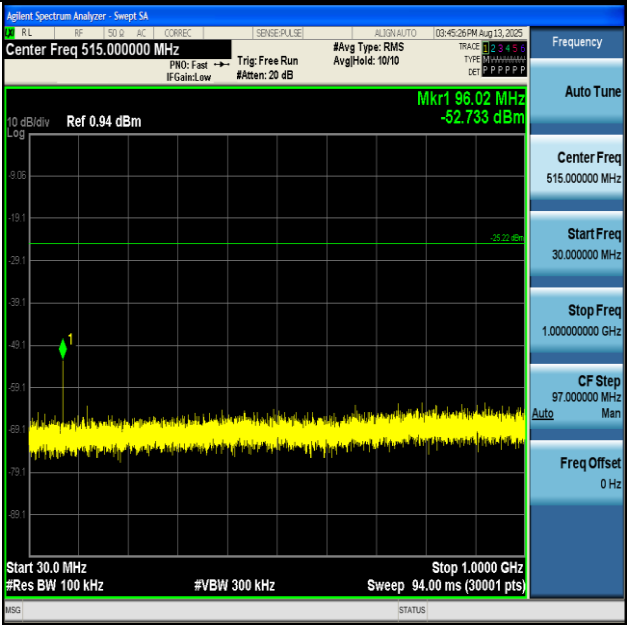




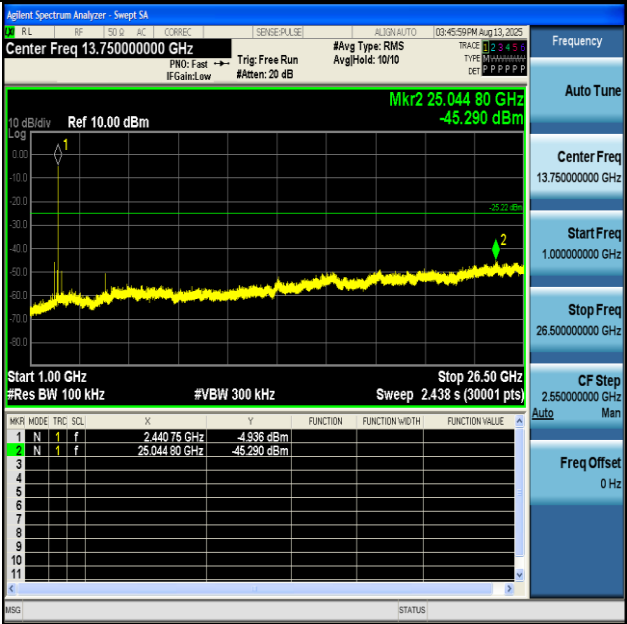
DH5-Ant1-2402-1000~26500-PASS



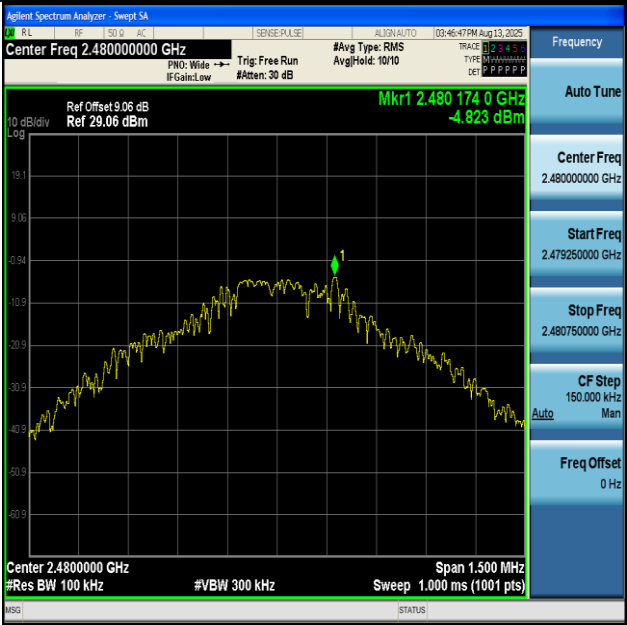
DH5-Ant1-2441-0~Reference-PASS



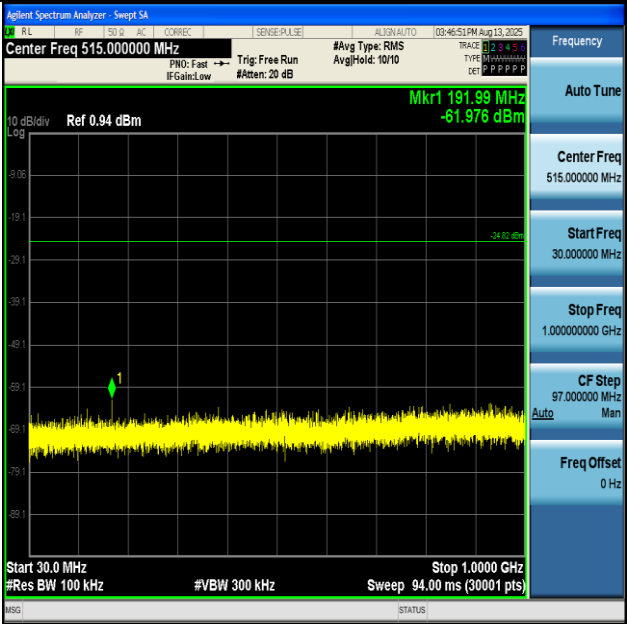
DH5-Ant1-2441-30~1000-PASS



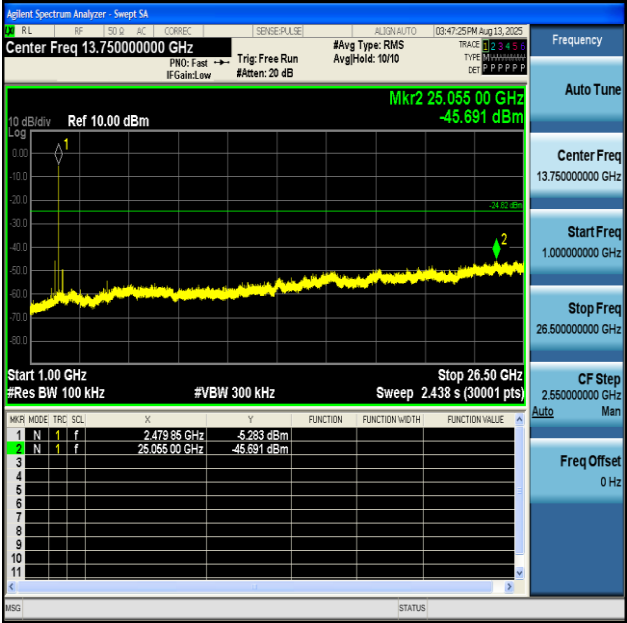
DH5-Ant1-2441-1000~26500-PASS



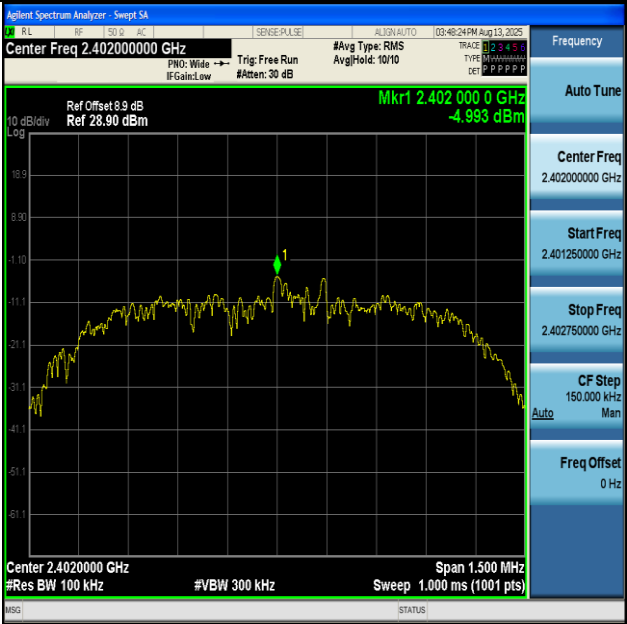
DH5-Ant1-2480-0~Reference-PASS



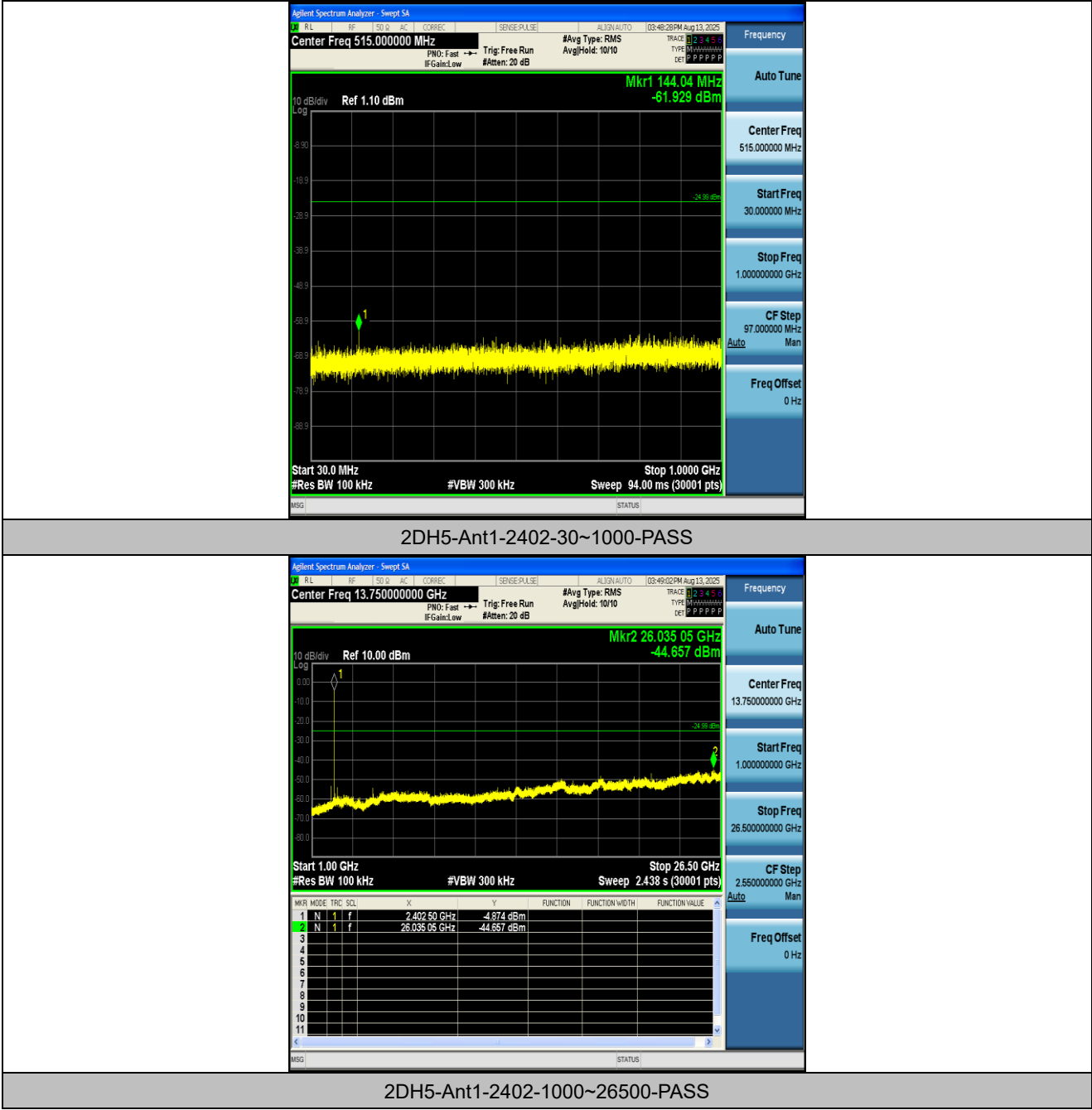
DH5-Ant1-2480-30~1000-PASS

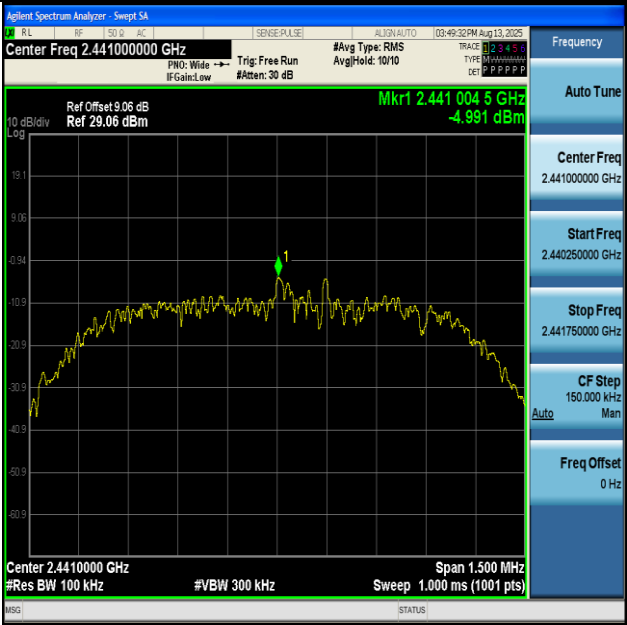


DH5-Ant1-2480-1000~26500-PASS

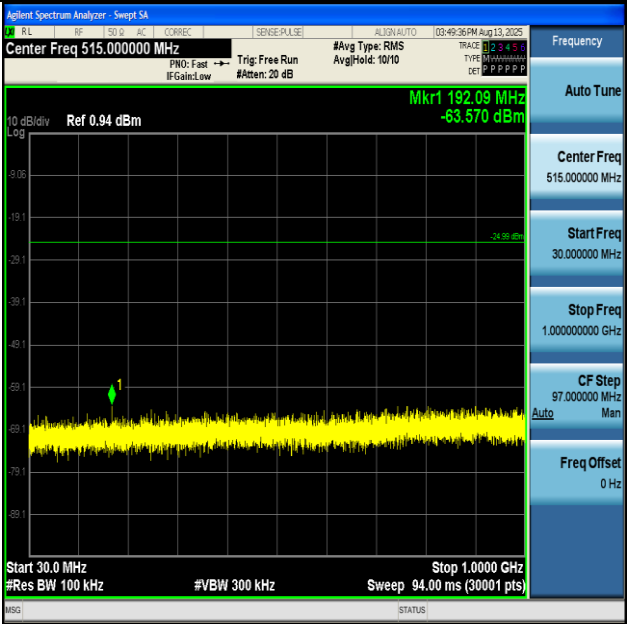


2DH5-Ant1-2402-0~Reference-PASS

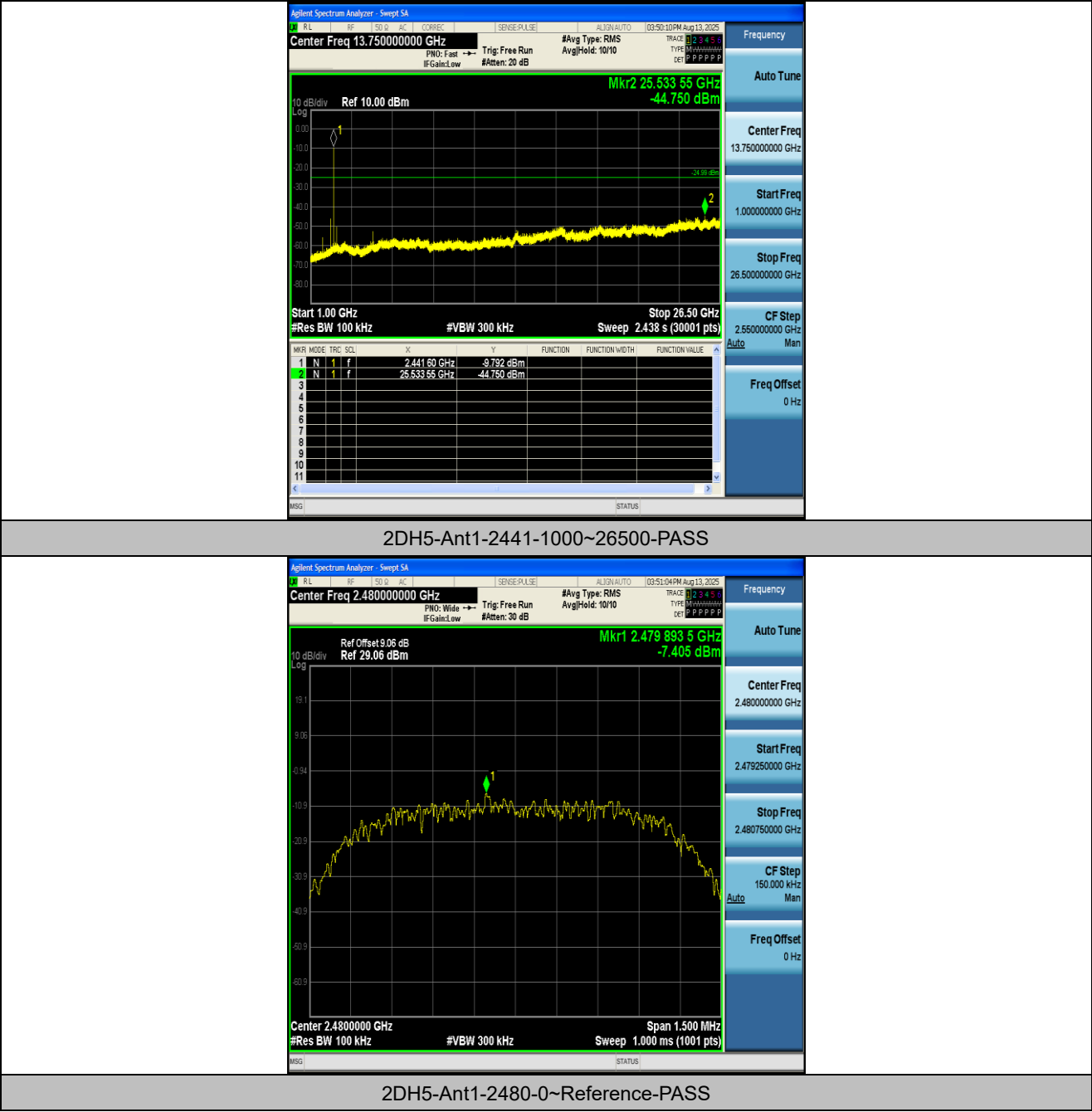


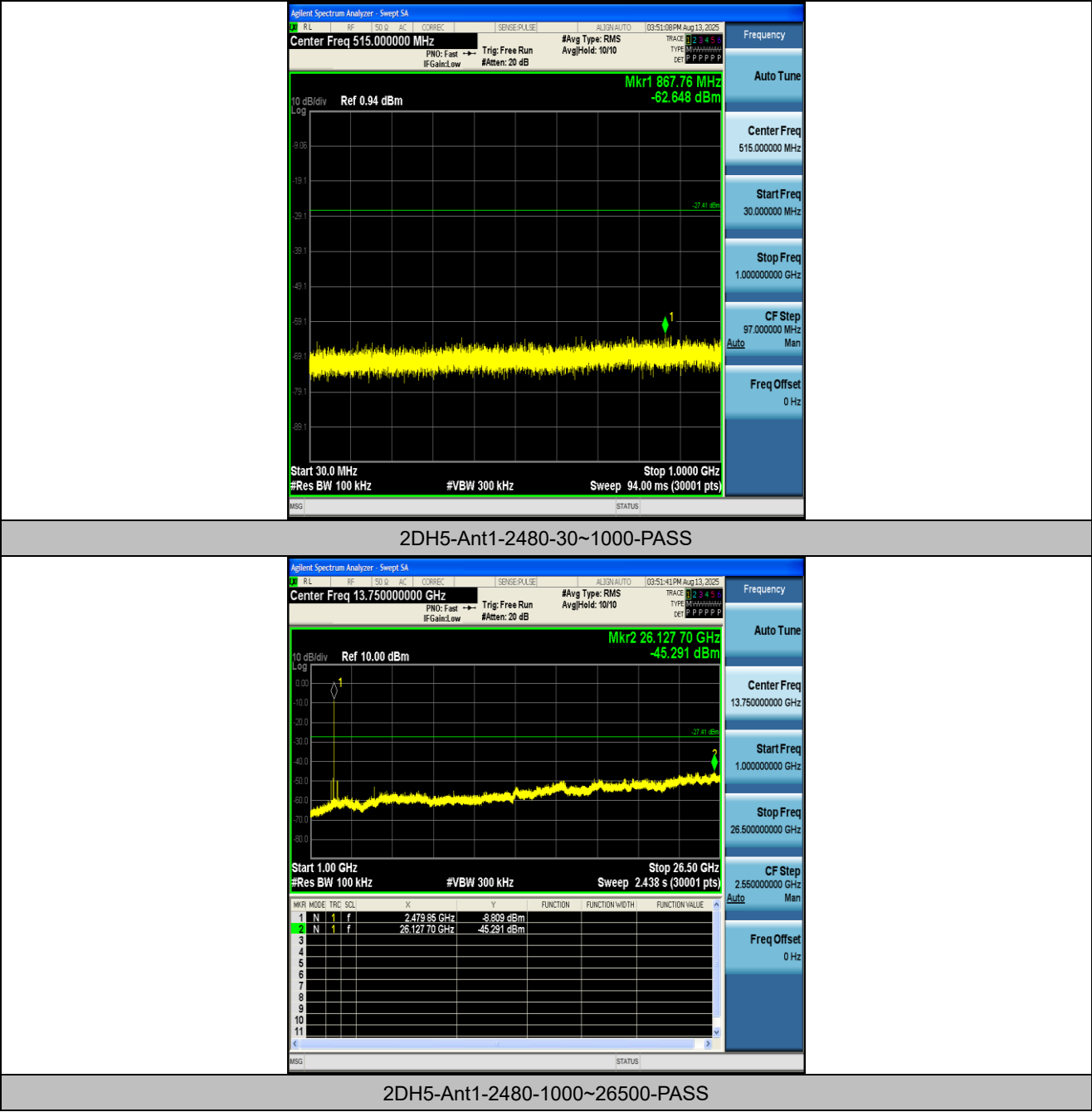


2DH5-Ant1-2441-0~Reference-PASS



2DH5-Ant1-2441-30~1000-PASS





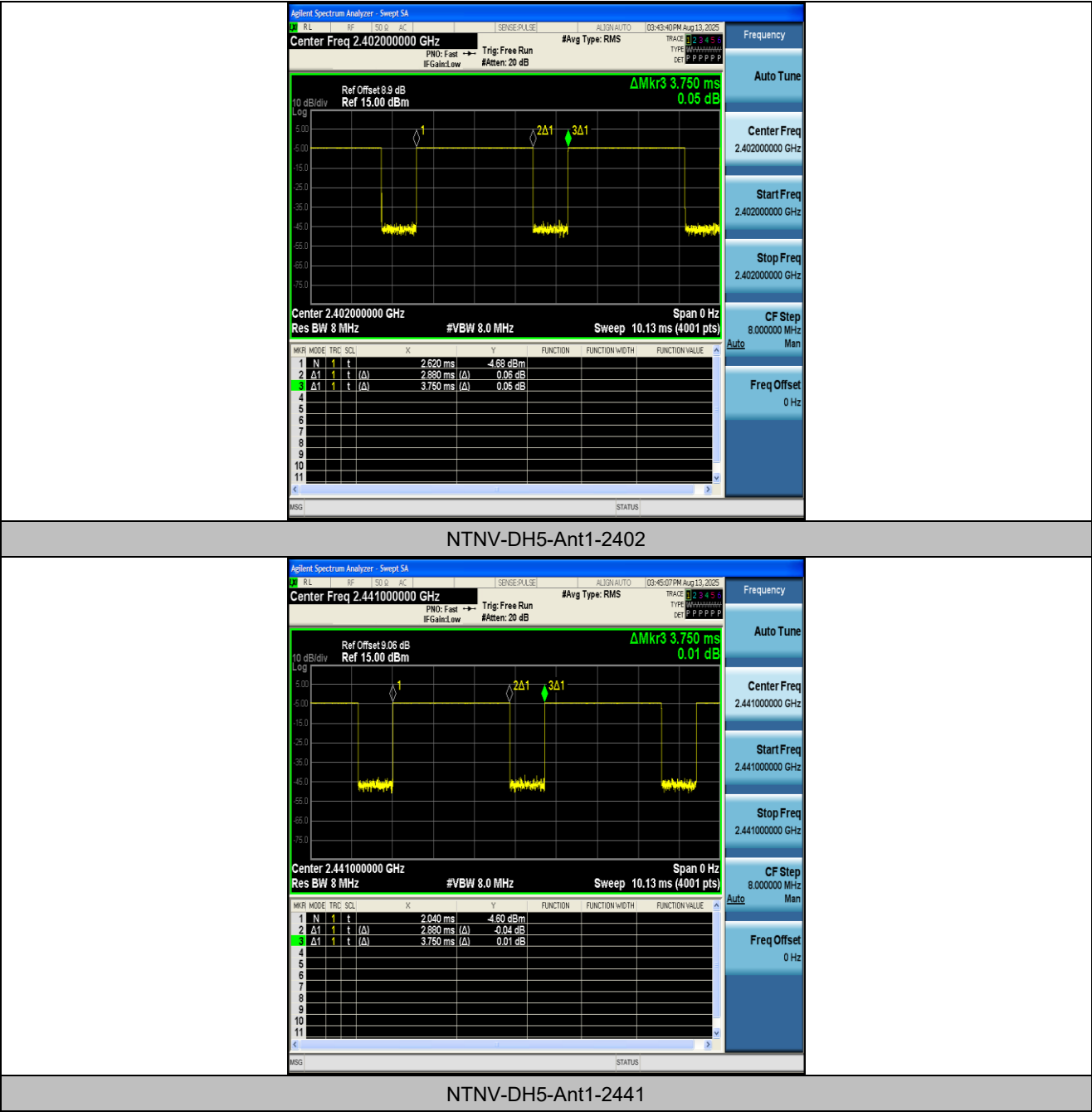
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.90	3.76	77.13	1.13

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 9.06 dB
Ref 15.00 dBm

10 dB/div
Log

1

2Δ1

3Δ1

5.00

4.00

3.00

2.00

1.00

0.00

-1.00

-2.00

-3.00

-4.00

-5.00

-6.00

-7.00

-8.00

-9.00

-10.00

Center 2.441000000 GHz

Res BW 8 MHz

#VBW 8.0 MHz

Sweep 10.13 ms (4001 pts)

Span 0 Hz

MRK MODE TRG SQL

1 N 1 t

2 Δ1 1 t (Δ)

3 Δ1 1 t (Δ)

4

5

6

7

8

9

10

11

X

2.040 ms

2.880 ms (Δ)

3.750 ms (Δ)

Y

-4.60 dBm

-0.04 dB

0.01 dB

FUNCTION

FUNCTION WIDTH

FUNCTION VALUE

ΔMkr3 3.750 ms

0.01 dB

Frequency

Auto Tune

Center Freq
2.441000000 GHz

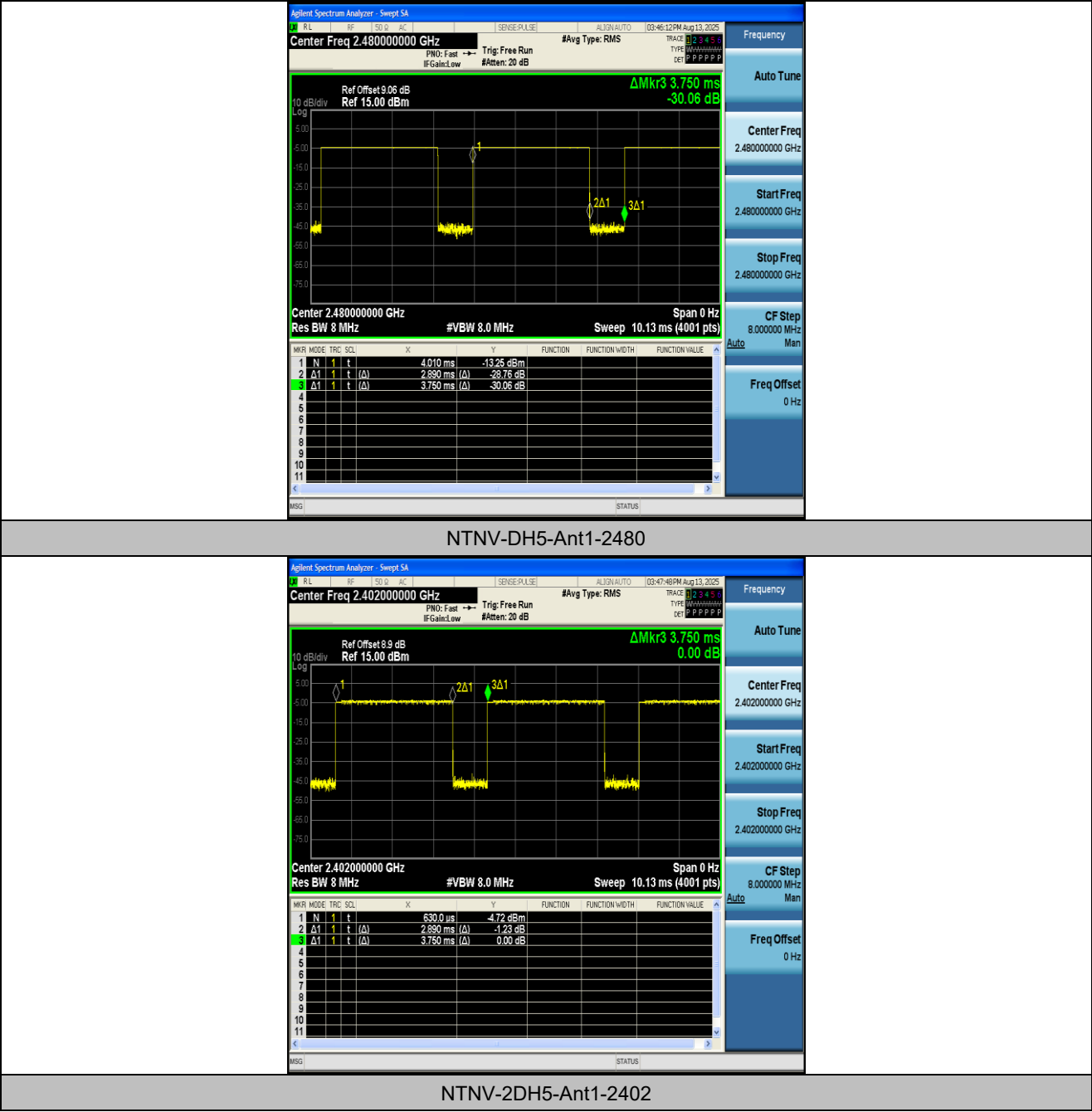
Start Freq
2.441000000 GHz

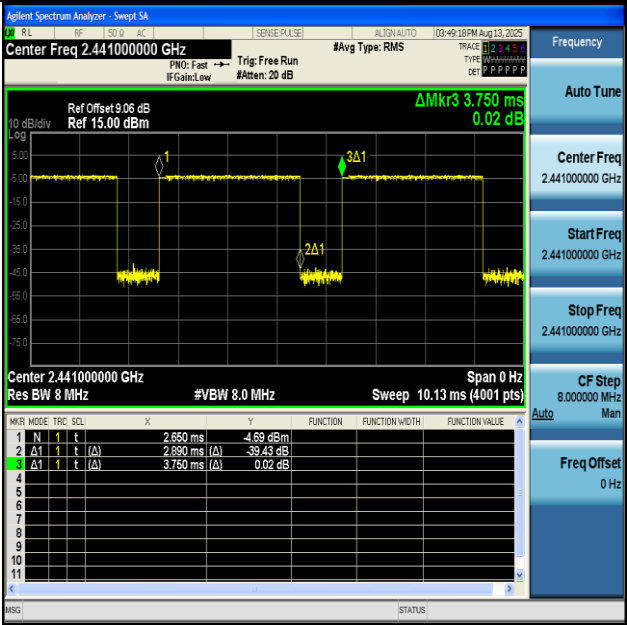
Stop Freq
2.441000000 GHz

CF Step
8.0000000 MHz

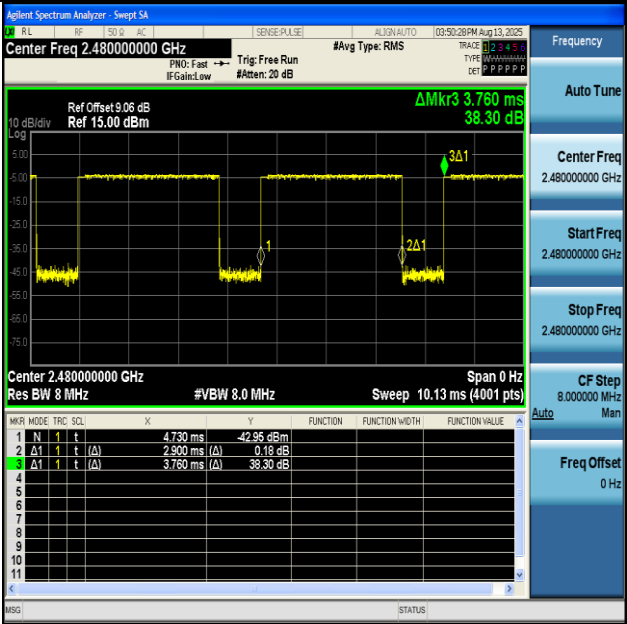
Freq Offset
0 Hz

NTNV-DH5-Ant1-2441





NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480