

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

Product Name: Wireless Speaker

Trade Mark: /

Test Model: SP-006

FCC ID: 2BCRG-SP006

Environmental Conditions

Temperature:	23.5℃
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	0.966	2401.466	2402.432	---	---
DH5	Ant1	2441	0.957	2440.475	2441.432	---	---
DH5	Ant1	2480	0.942	2479.475	2480.417	---	---
2DH5	Ant1	2402	1.353	2401.265	2402.618	---	---
2DH5	Ant1	2441	1.287	2440.307	2441.594	---	---
2DH5	Ant1	2480	1.275	2479.319	2480.594	---	---

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

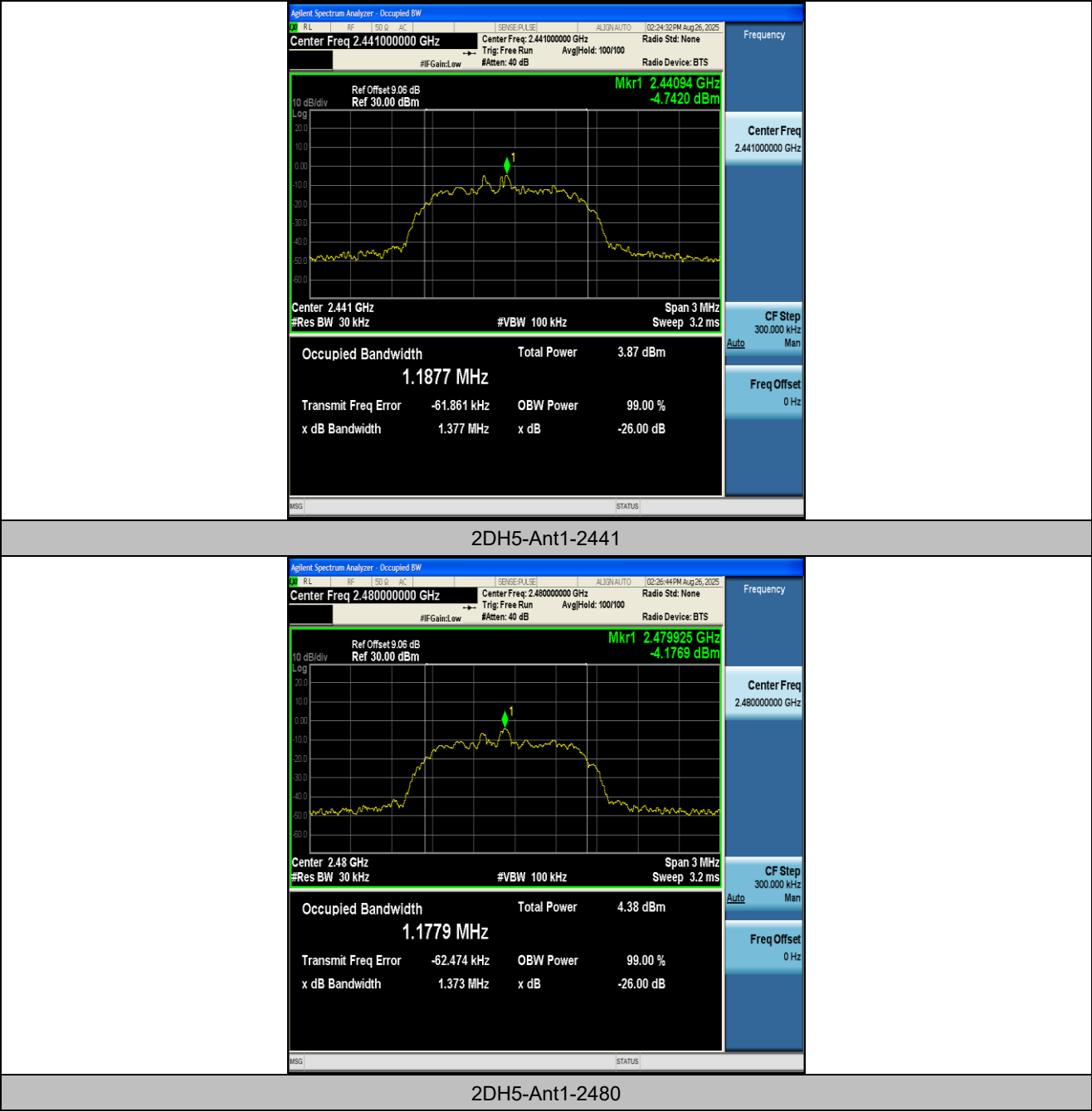
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.87586	2401.5039	2402.3798	---	---
DH5	Ant1	2441	0.87135	2440.5008	2441.3721	---	---
DH5	Ant1	2480	0.87759	2479.5018	2480.3793	---	---
2DH5	Ant1	2402	1.1867	2401.3493	2402.5360	---	---
2DH5	Ant1	2441	1.1877	2440.3443	2441.5320	---	---
2DH5	Ant1	2480	1.1779	2479.3486	2480.5265	---	---

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

Test Graphs







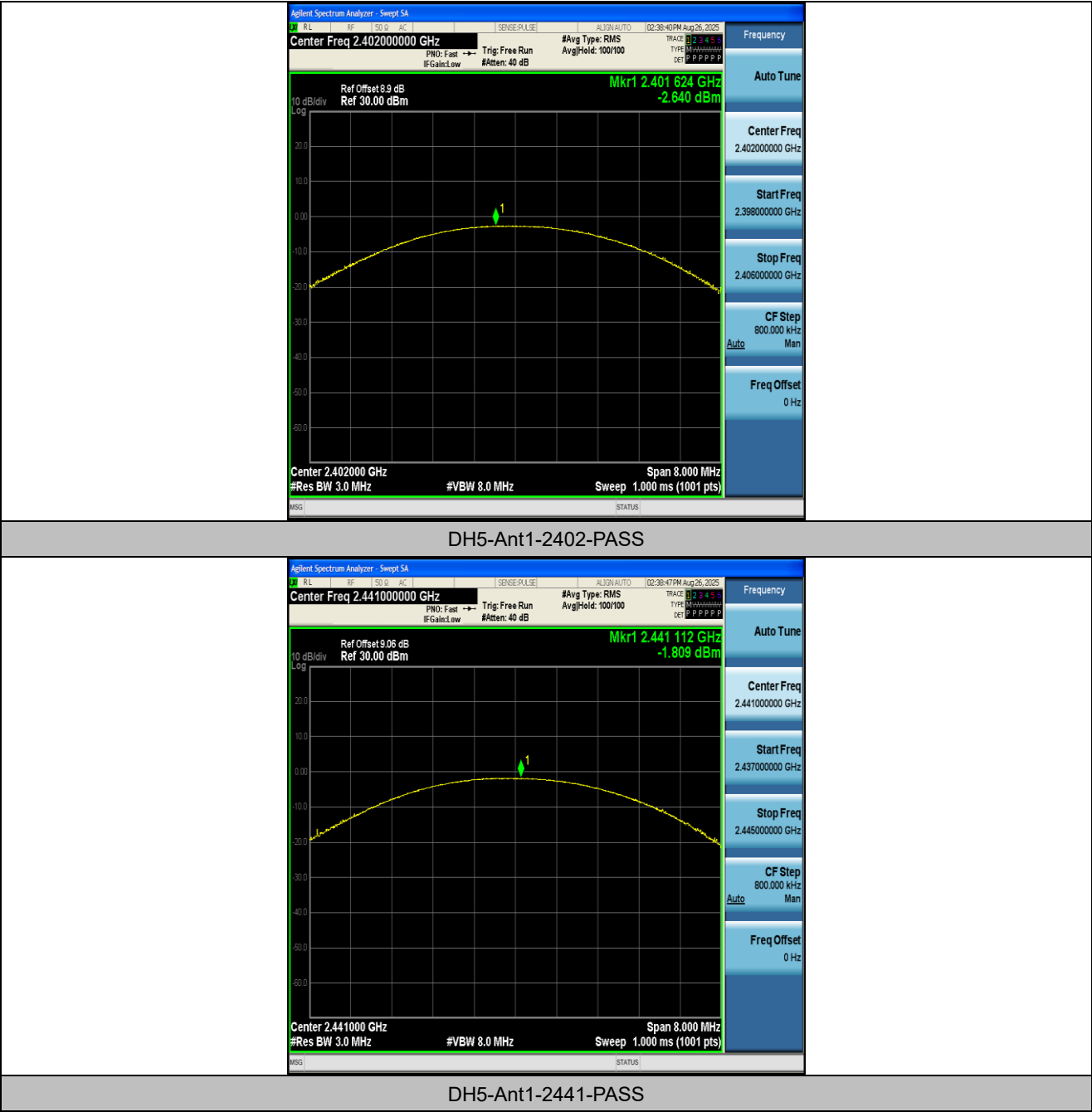
Appendix C: Maximum peak conducted output power

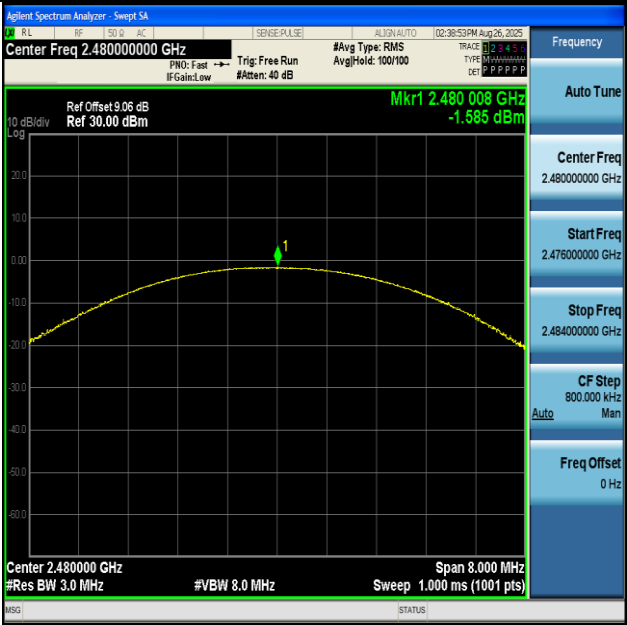
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-2.64	≤30	PASS
DH5	Ant1	2441	-1.81	≤30	PASS
DH5	Ant1	2480	-1.59	≤30	PASS
2DH5	Ant1	2402	-1.94	≤20.97	PASS
2DH5	Ant1	2441	-1.01	≤20.97	PASS
2DH5	Ant1	2480	-0.79	≤20.97	PASS

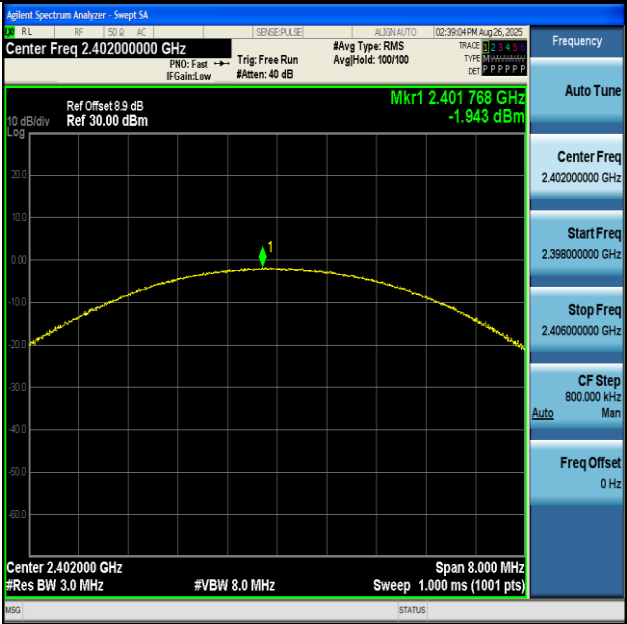
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

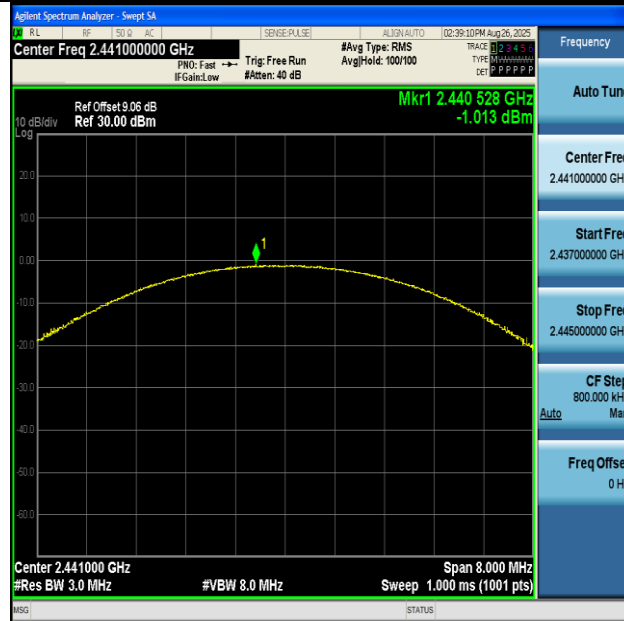




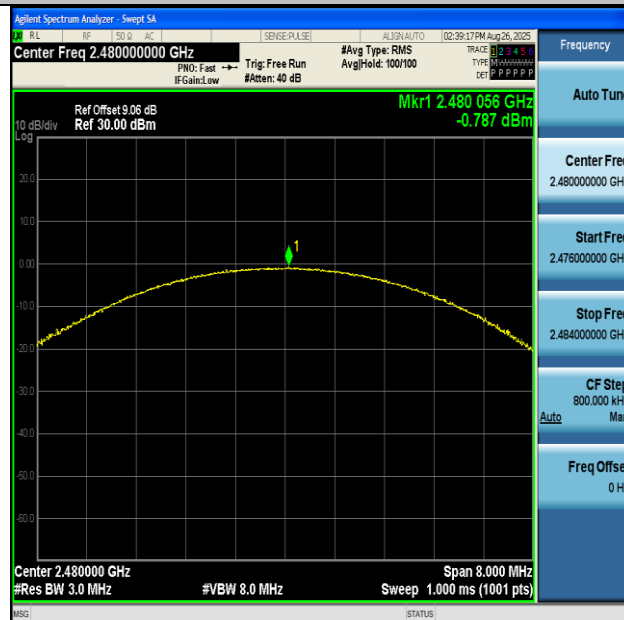
DH5-Ant1-2480-PASS



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	0.998	≥0.966	PASS
2DH5	Ant1	Hop	0.998	≥0.902	PASS

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

Test Graphs



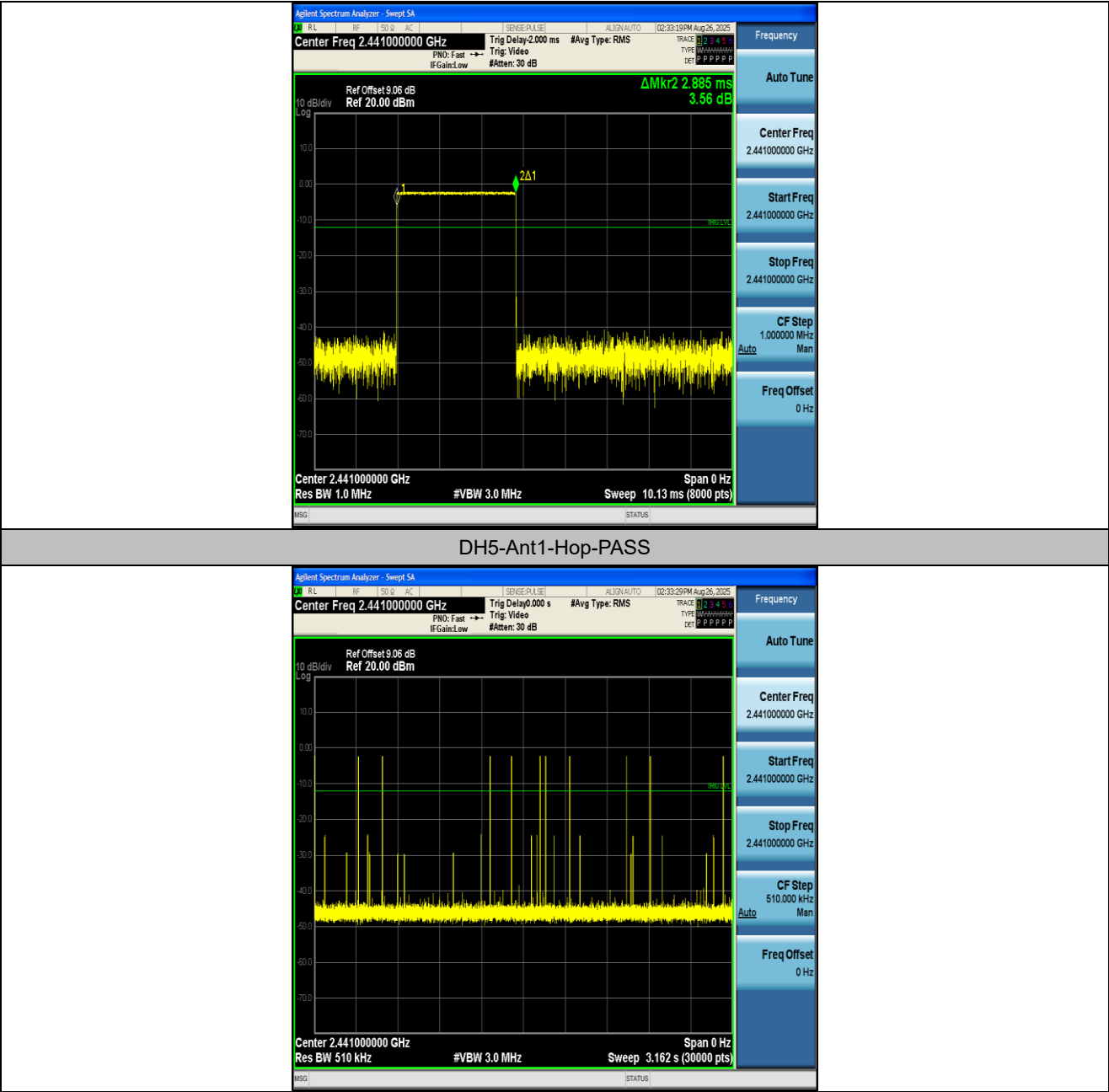
Appendix E: Time of occupancy

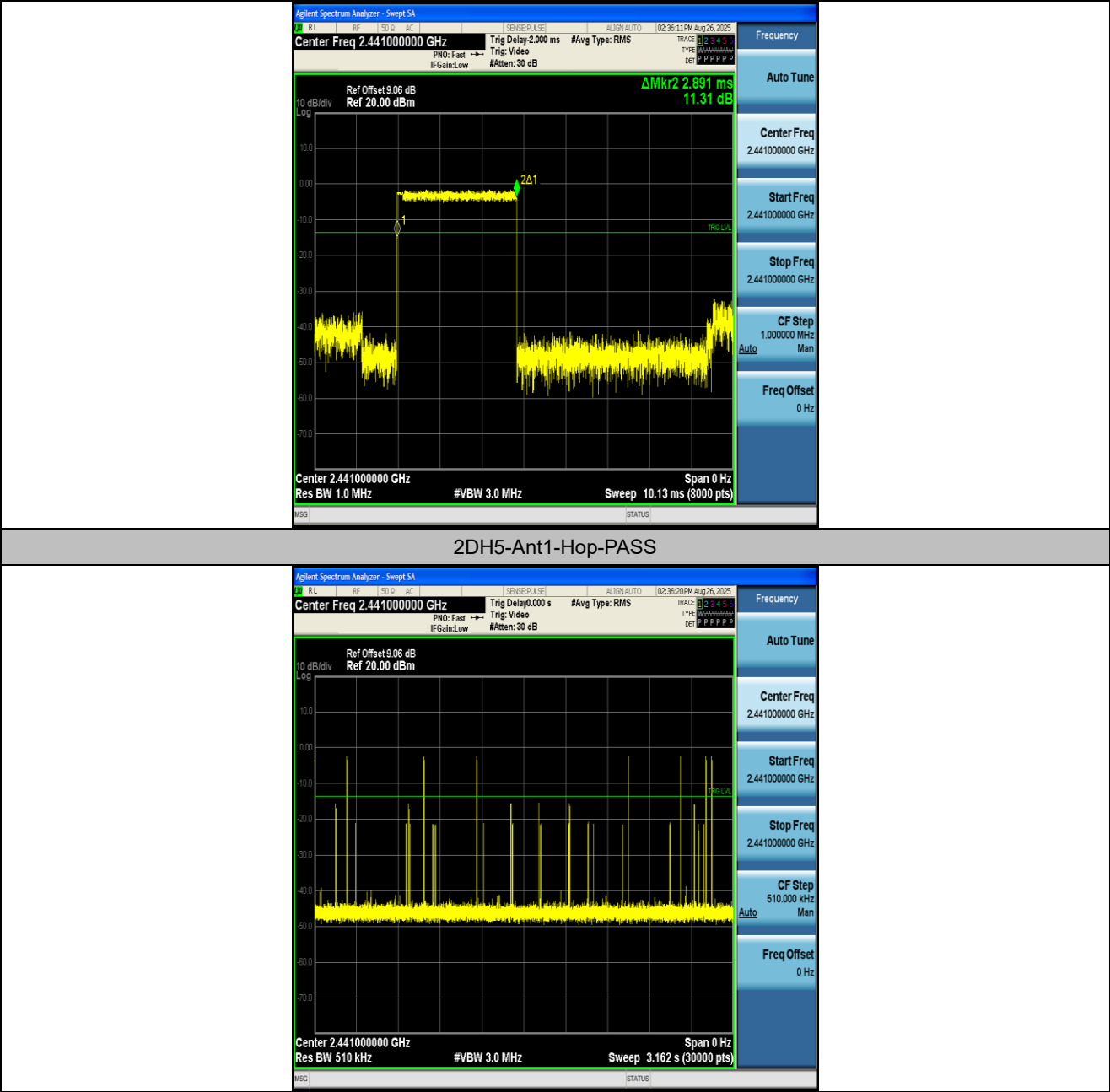
Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.885	110	0.317	≤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





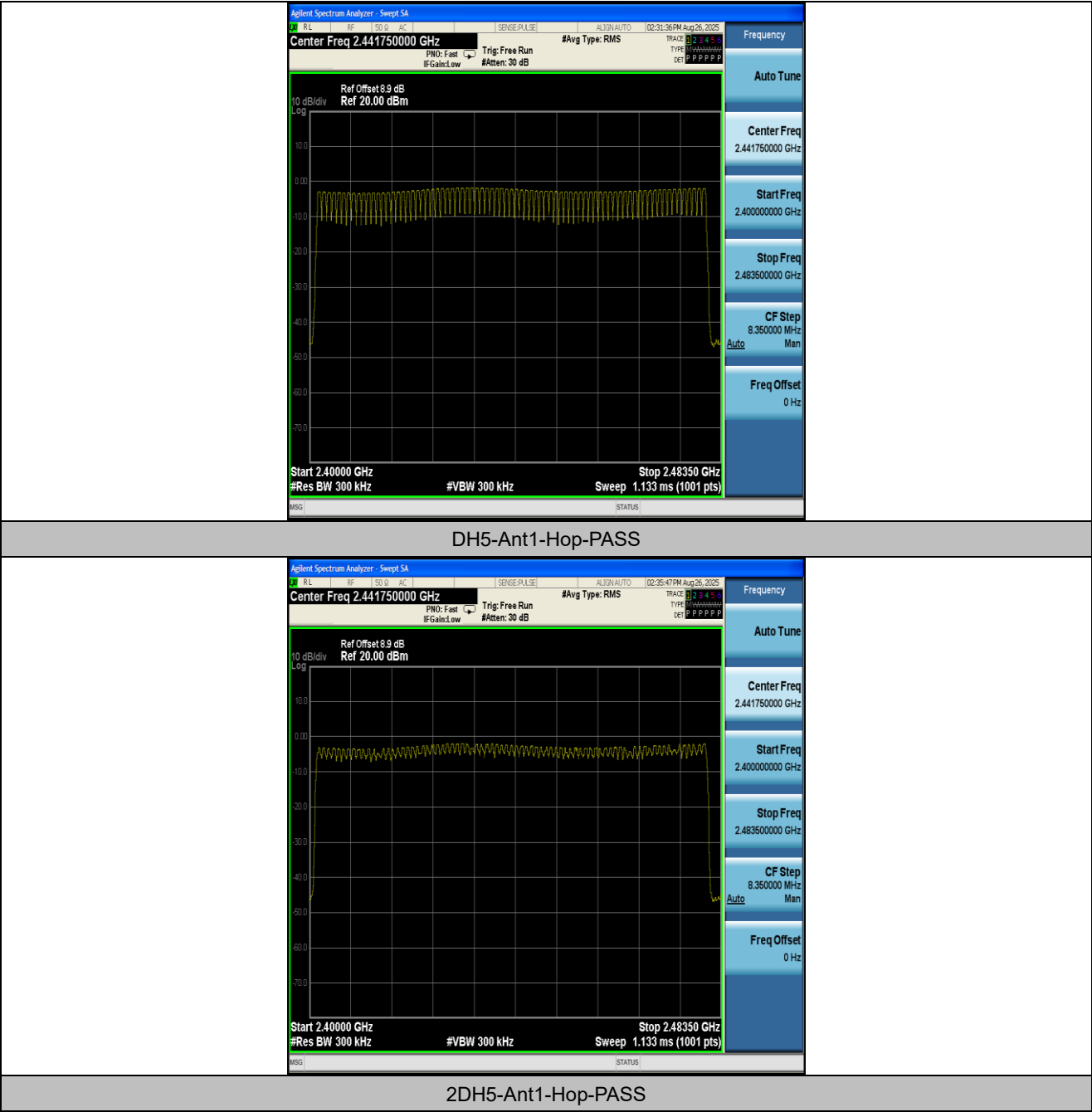
Appendix F: Number of hopping channels

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



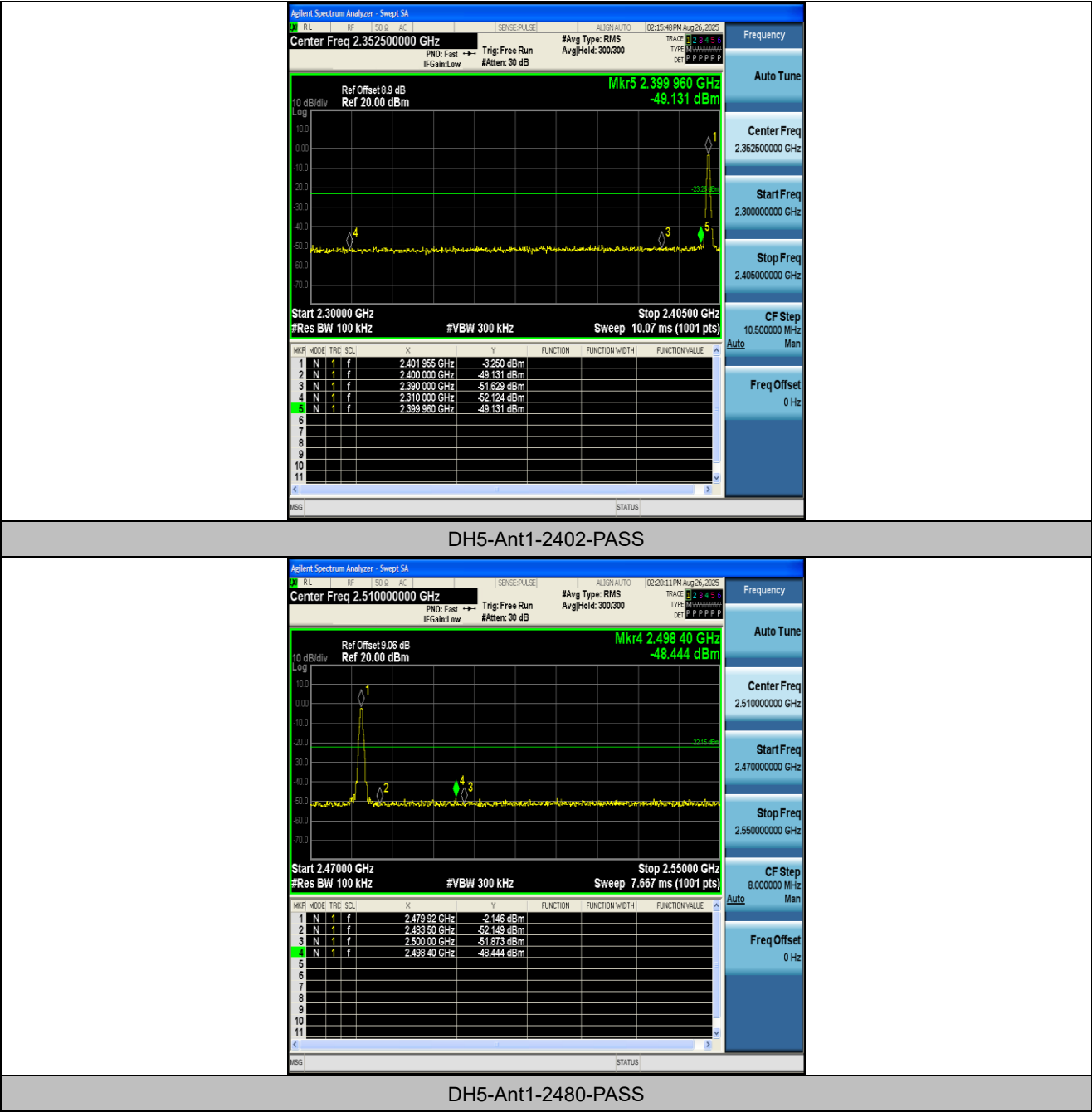
Appendix G: Band edge measurements

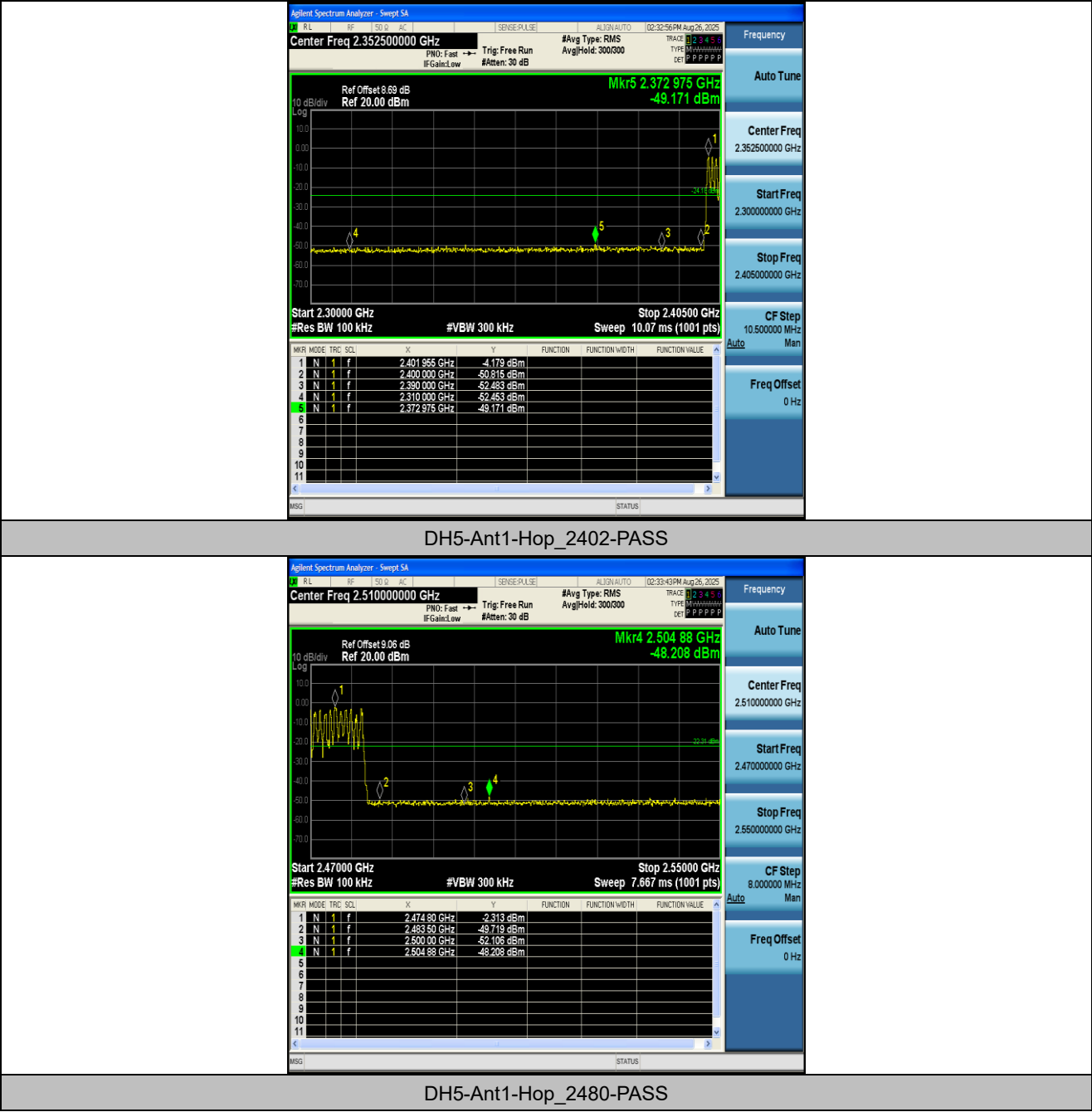
Test Result

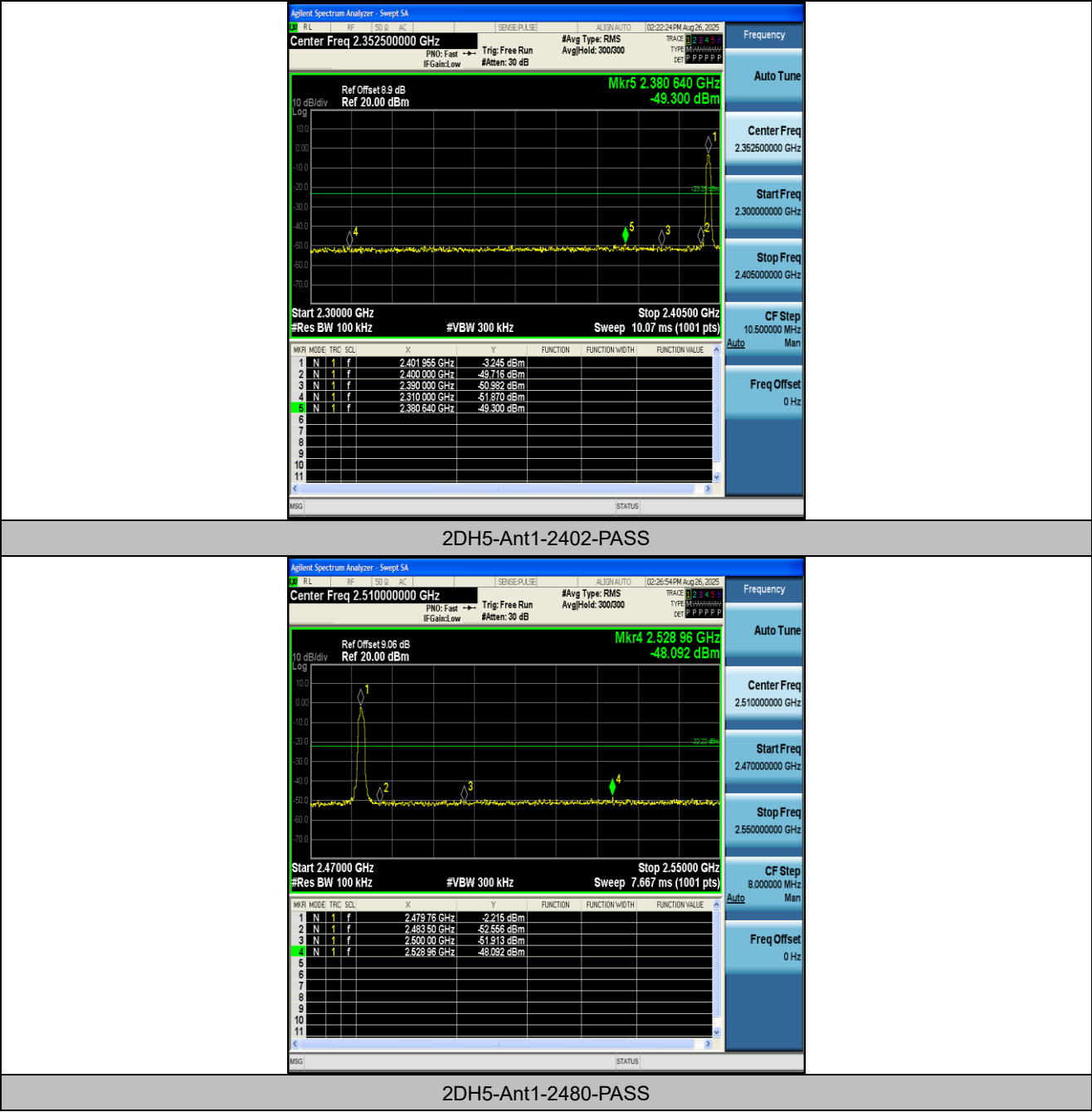
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.25	-49.13	≤-23.25	PASS
DH5	Ant1	High	2480	-2.15	-48.44	≤-22.15	PASS
DH5	Ant1	Low	Hop_2402	-4.18	-49.17	≤-24.18	PASS
DH5	Ant1	High	Hop_2480	-2.31	-48.21	≤-22.31	PASS
2DH5	Ant1	Low	2402	-3.25	-49.3	≤-23.25	PASS
2DH5	Ant1	High	2480	-2.22	-48.09	≤-22.22	PASS
2DH5	Ant1	Low	Hop_2402	-8.84	-49.11	≤-28.84	PASS
2DH5	Ant1	High	Hop_2480	-5.83	-48.66	≤-25.83	PASS

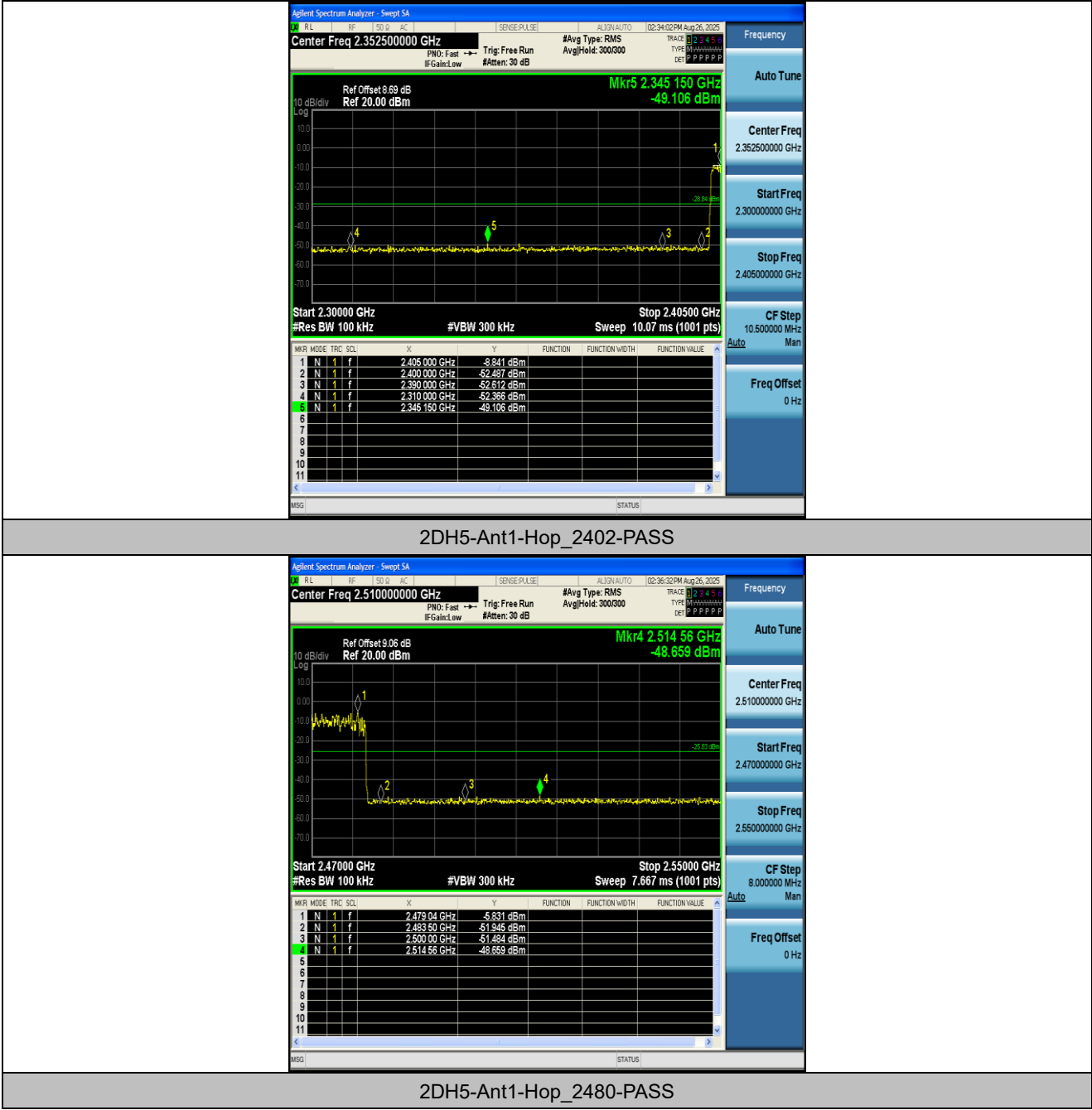
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs









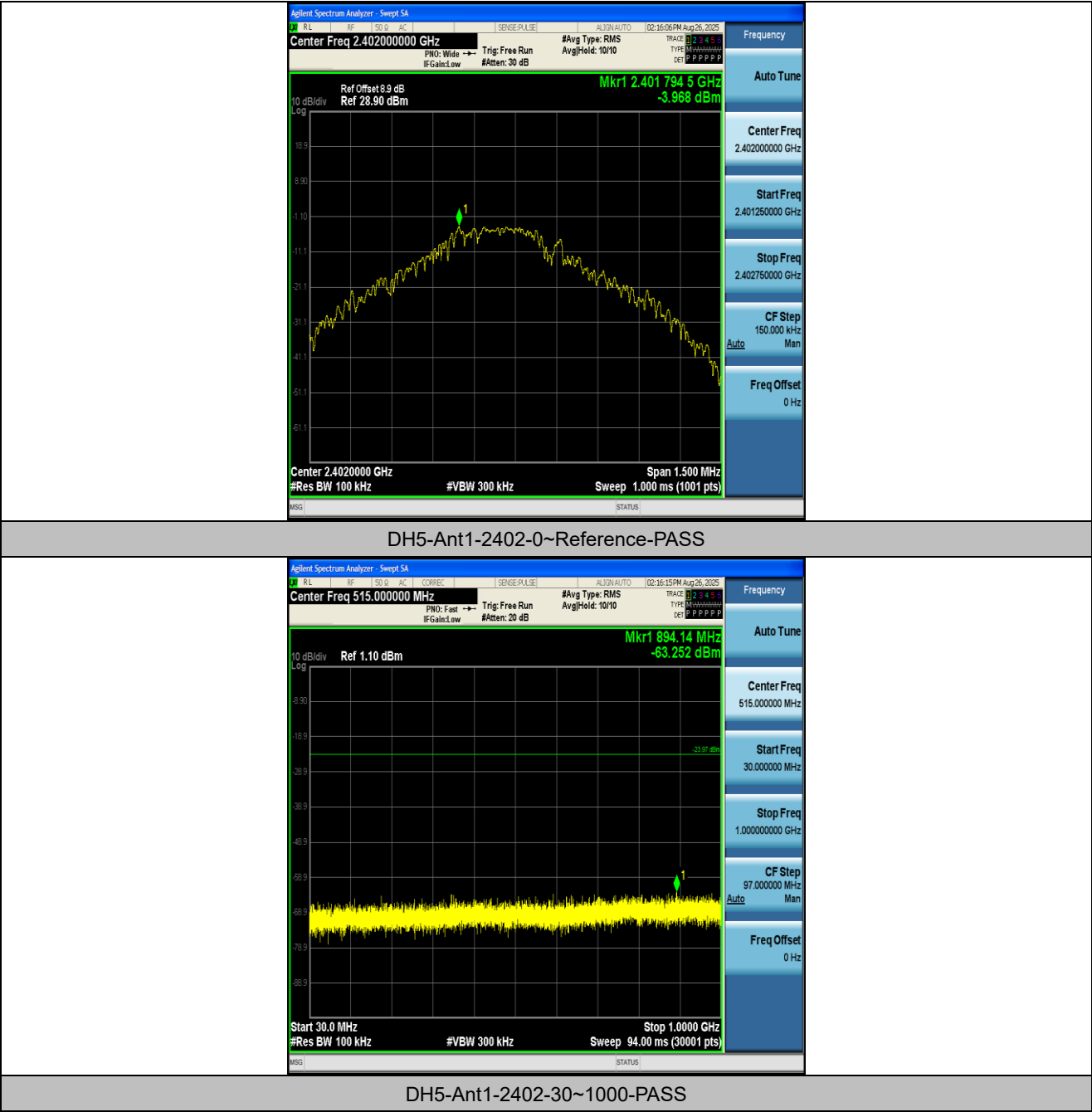
Appendix H: Conducted Spurious Emission

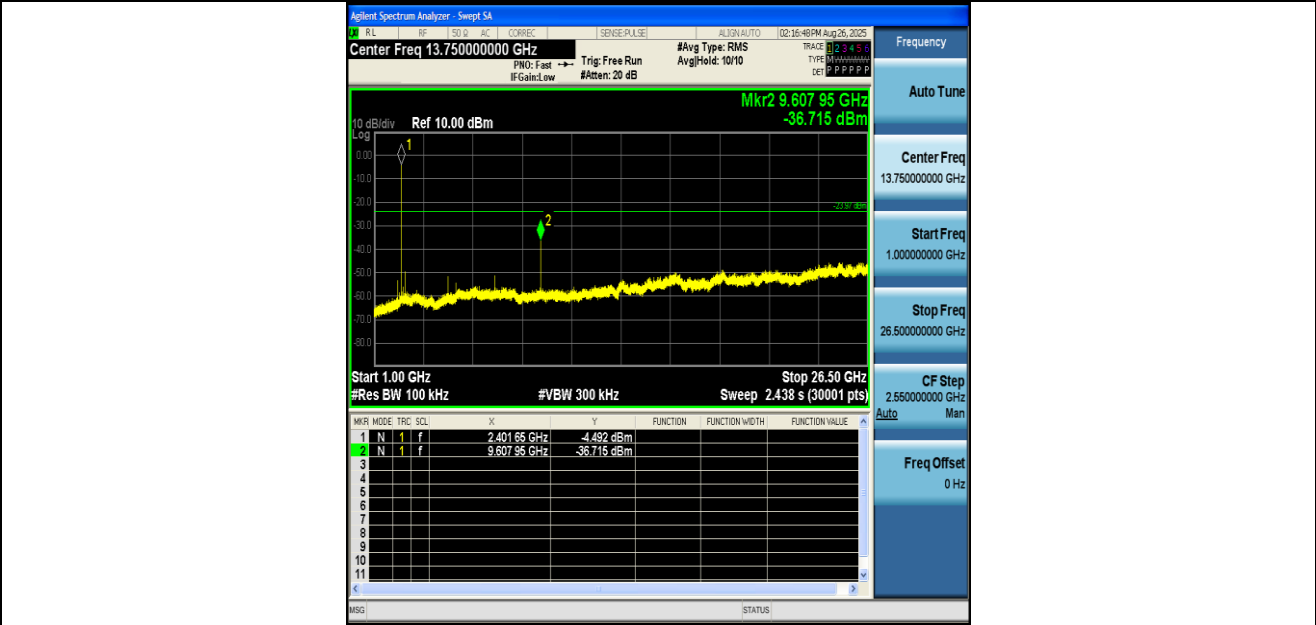
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-3.97	-3.97	---	PASS
DH5	Ant1	2402	30~1000	-3.97	-63.25	≤ -23.97	PASS
DH5	Ant1	2402	1000~26500	-3.97	-36.72	≤ -23.97	PASS
DH5	Ant1	2441	0~Reference	-3.25	-3.25	---	PASS
DH5	Ant1	2441	30~1000	-3.25	-62.69	≤ -23.25	PASS
DH5	Ant1	2441	1000~26500	-3.25	-34.66	≤ -23.25	PASS
DH5	Ant1	2480	0~Reference	-2.81	-2.81	---	PASS
DH5	Ant1	2480	30~1000	-2.81	-62.83	≤ -22.81	PASS
DH5	Ant1	2480	1000~26500	-2.81	-33.82	≤ -22.81	PASS
2DH5	Ant1	2402	0~Reference	-4.19	-4.19	---	PASS
2DH5	Ant1	2402	30~1000	-4.19	-62.81	≤ -24.19	PASS
2DH5	Ant1	2402	1000~26500	-4.19	-36.62	≤ -24.19	PASS
2DH5	Ant1	2441	0~Reference	-6.38	-6.38	---	PASS
2DH5	Ant1	2441	30~1000	-6.38	-62.91	≤ -26.38	PASS
2DH5	Ant1	2441	1000~26500	-6.38	-34.94	≤ -26.38	PASS
2DH5	Ant1	2480	0~Reference	-3.80	-3.80	---	PASS
2DH5	Ant1	2480	30~1000	-3.80	-63.13	≤ -23.8	PASS
2DH5	Ant1	2480	1000~26500	-3.80	-33.72	≤ -23.8	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

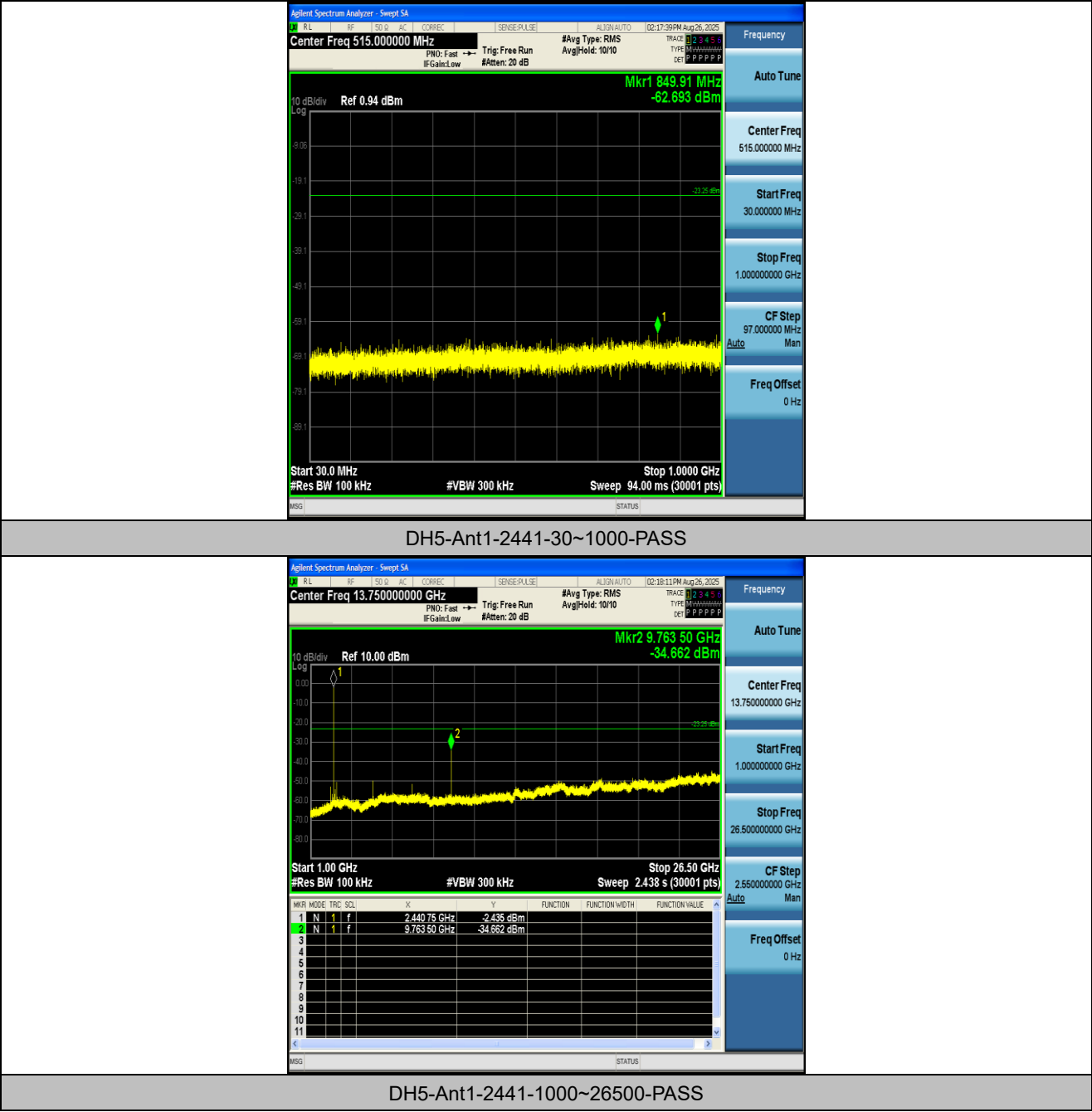


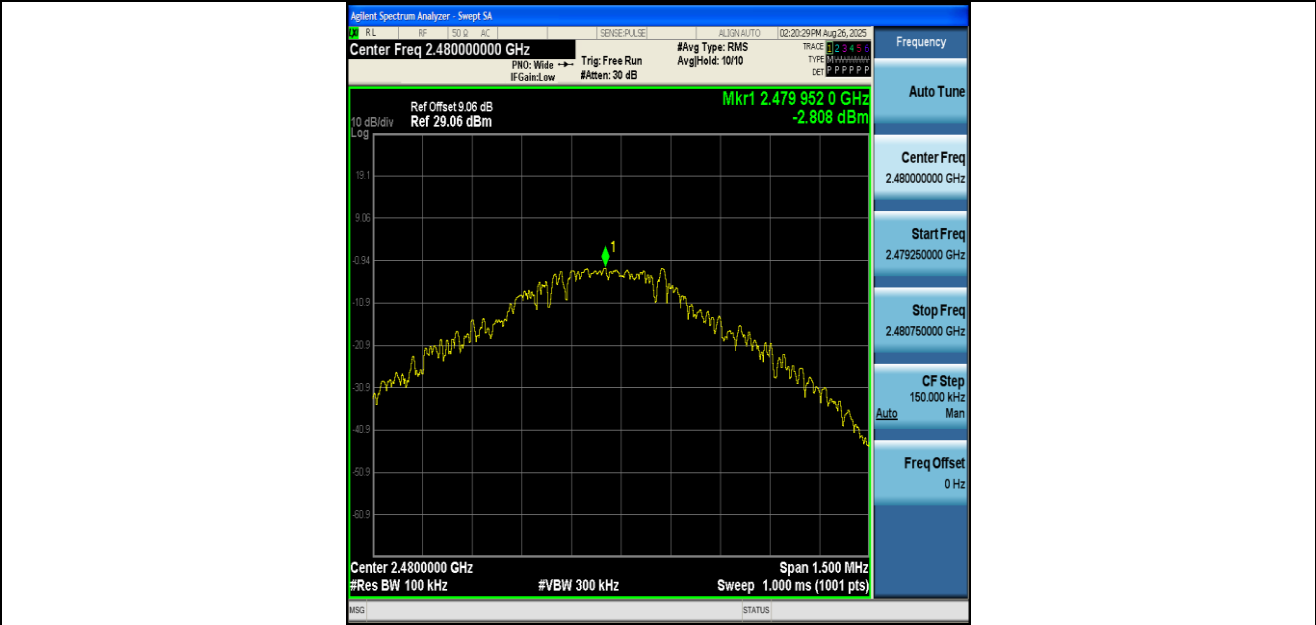


DH5-Ant1-2402-1000~26500-PASS



DH5-Ant1-2441-0~Reference-PASS

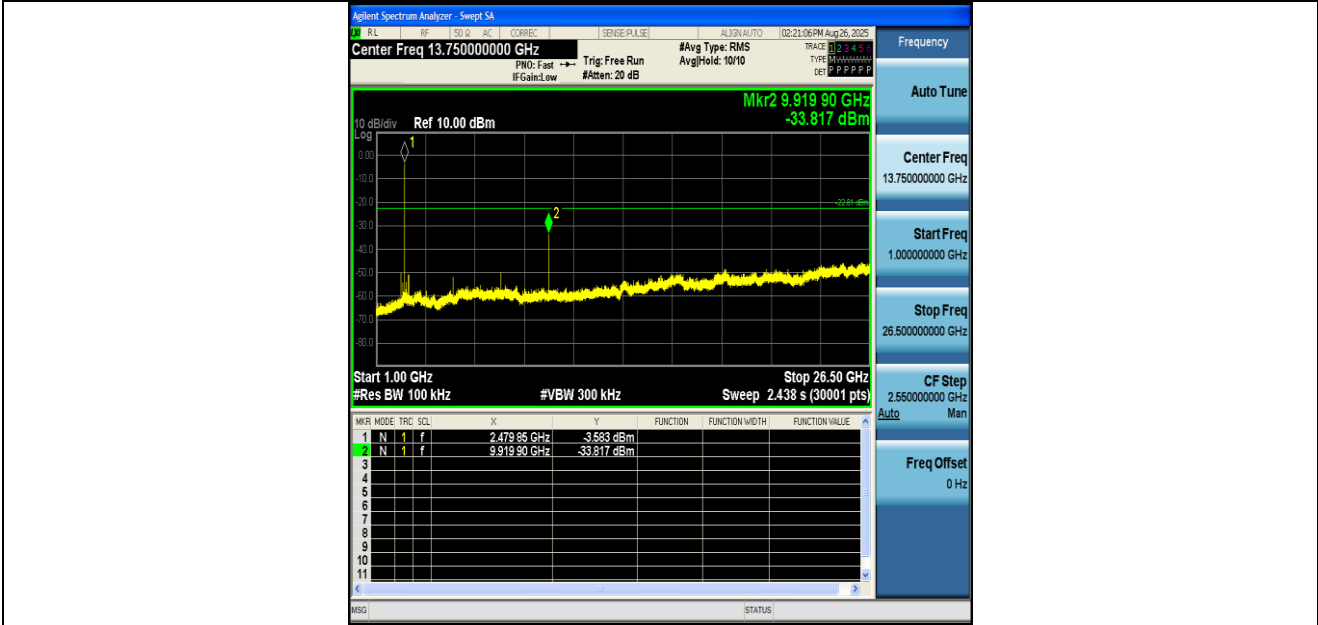




DH5-Ant1-2480-0~Reference-PASS



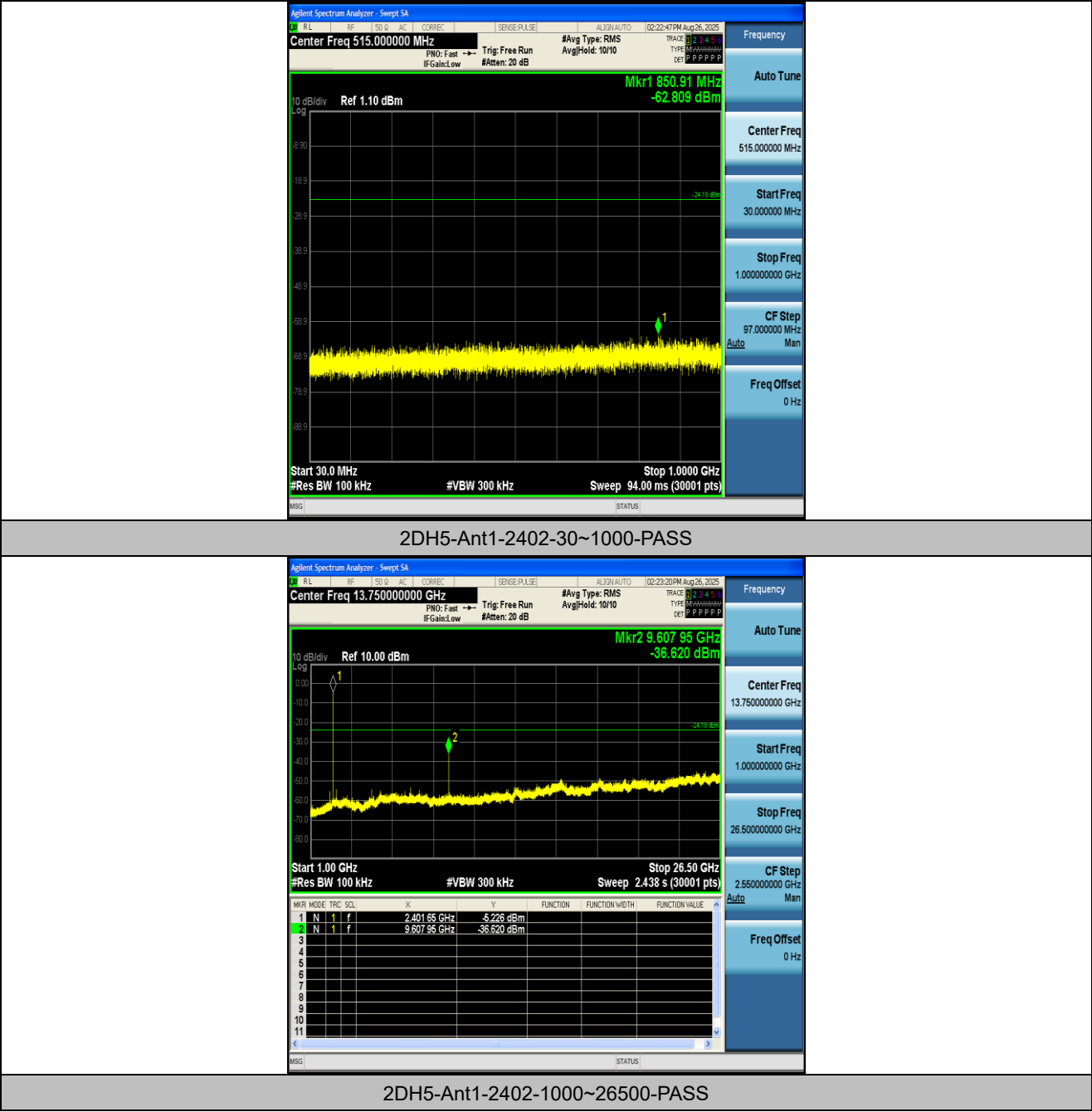
DH5-Ant1-2480-30~1000-PASS



DH5-Ant1-2480-1000~26500-PASS

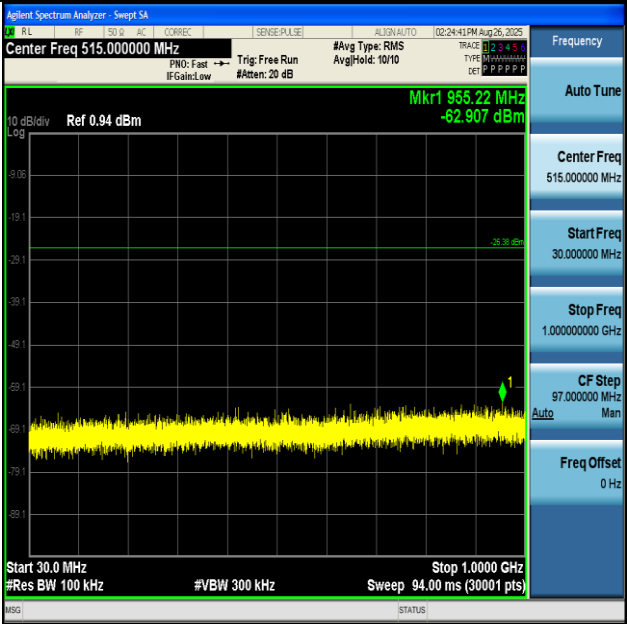


2DH5-Ant1-2402-0~Reference-PASS

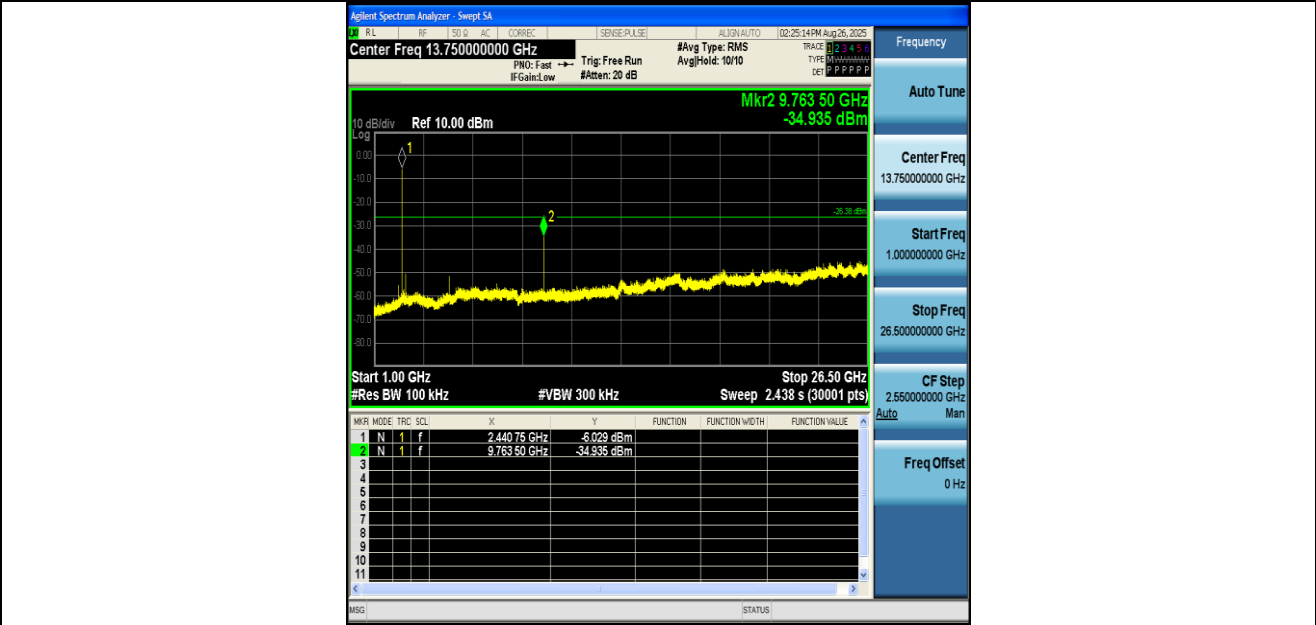




2DH5-Ant1-2441-0~Reference-PASS



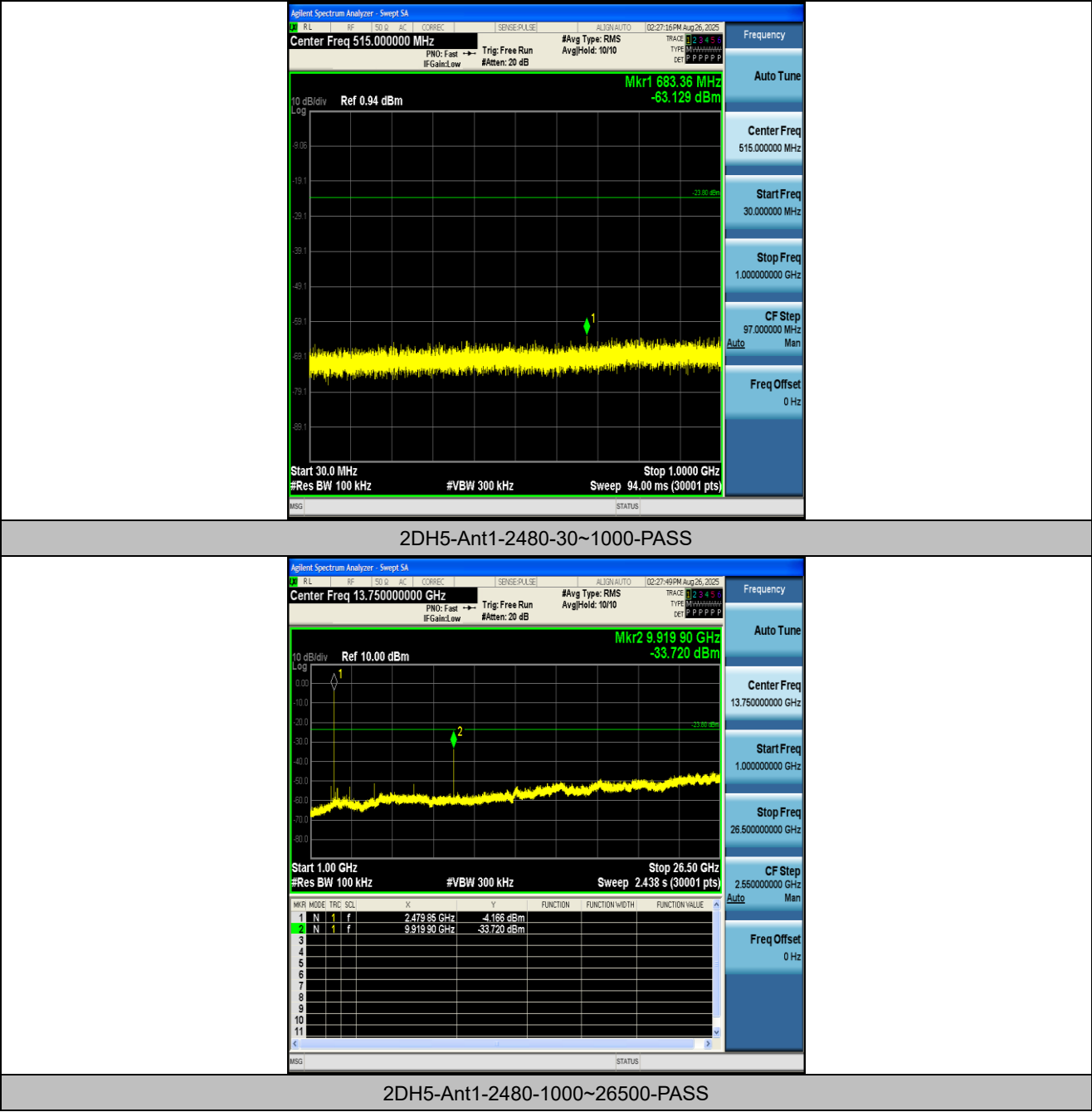
2DH5-Ant1-2441-30~1000-PASS



2DH5-Ant1-2441-1000~26500-PASS



2DH5-Ant1-2480-0~Reference-PASS



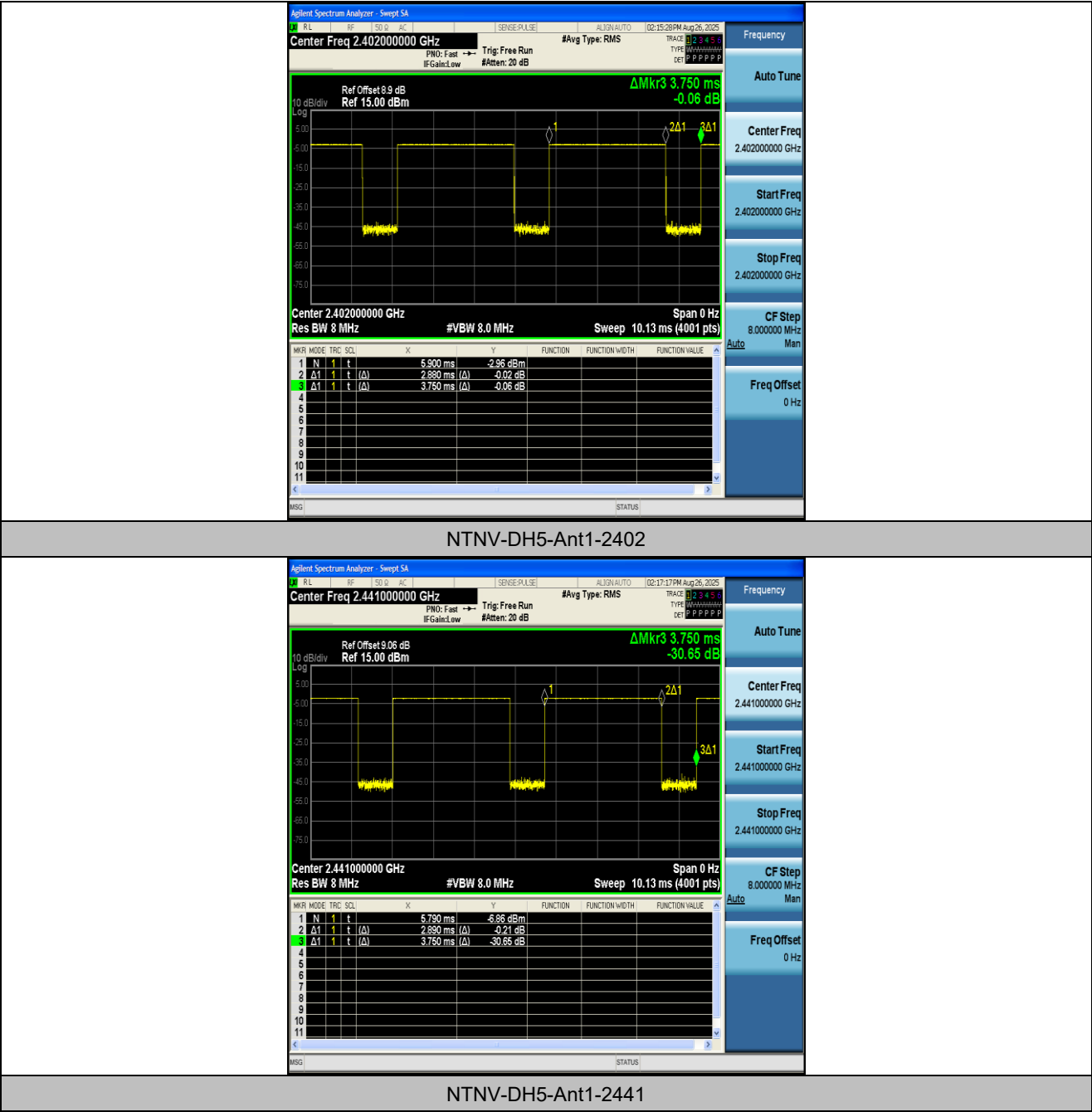
Appendix I: Duty Cycle

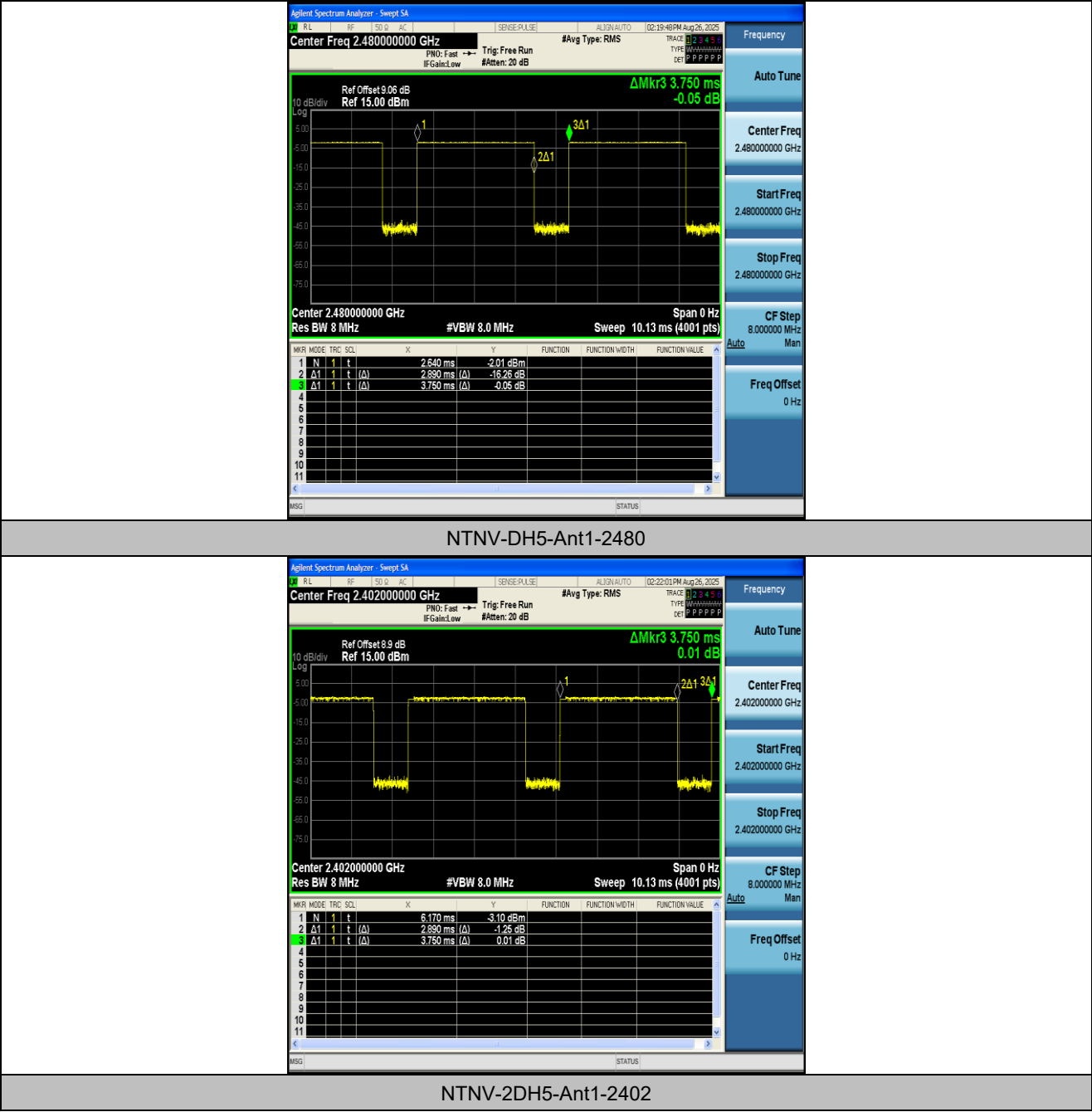
Test Result

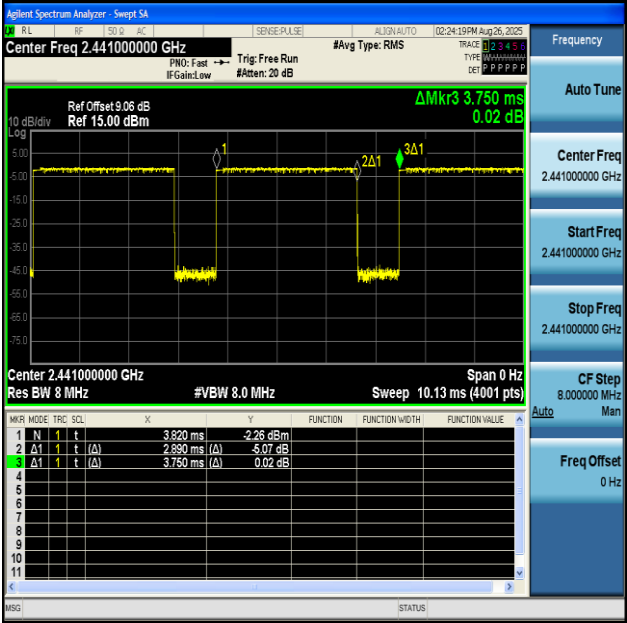
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.89	3.75	77.07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

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

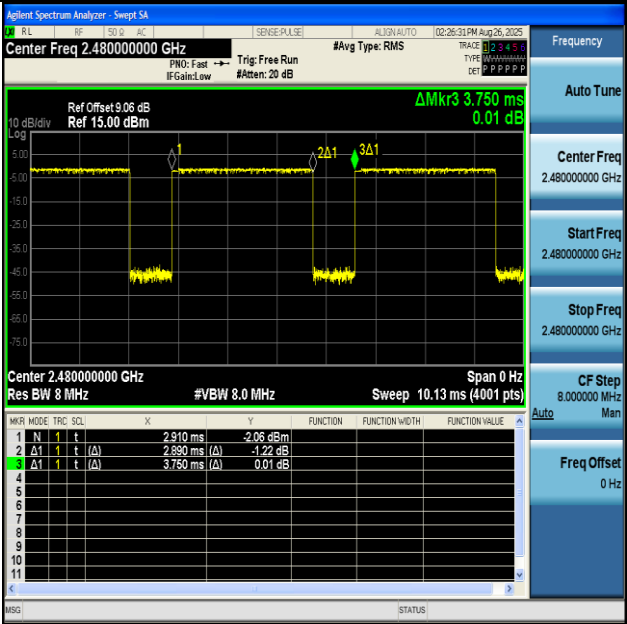
Test Graphs







NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480