

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

Product Name: Wireless Headphones

Trade Mark: /

Test Model: AC138

FCC ID: 2BCRG-AC138

Environmental Conditions

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

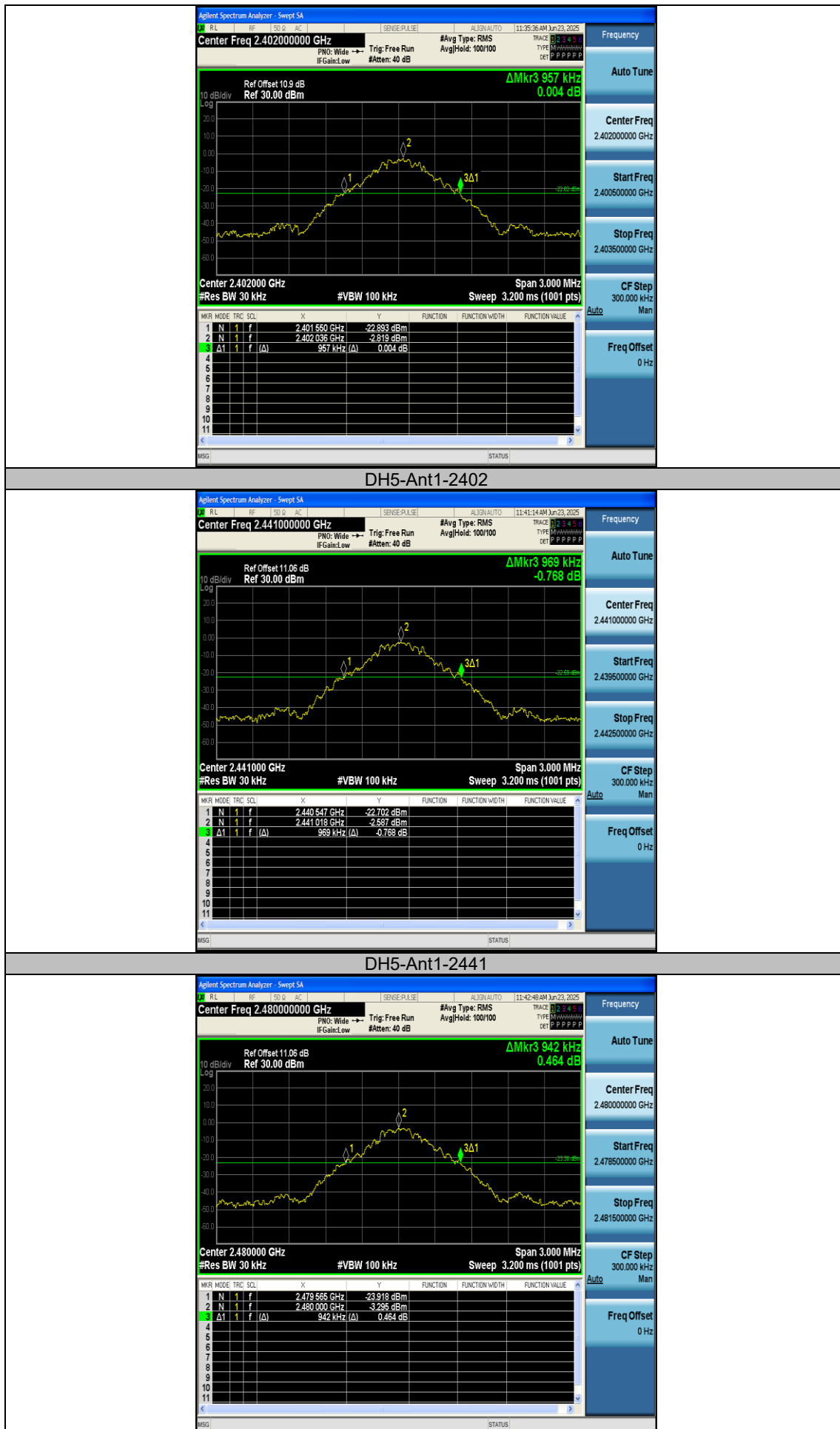
Appendix A: 20dB Emission Bandwidth

Test Result

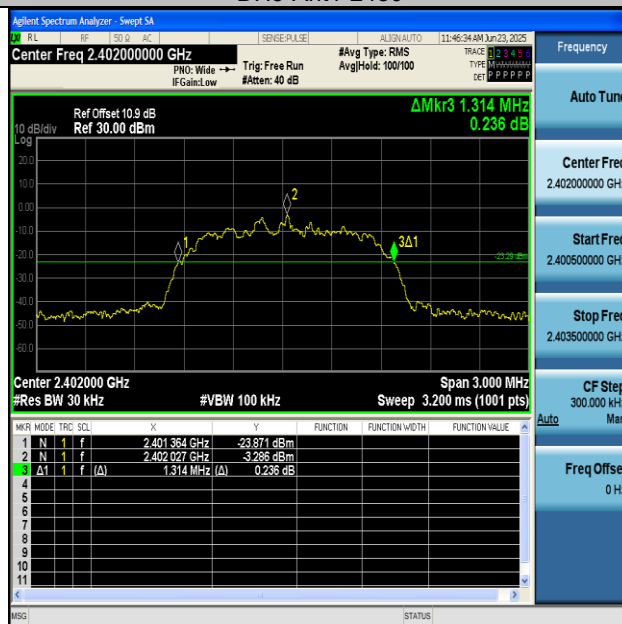
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.957	2401.550	2402.507	---	---
DH5	Ant1	2441	0.969	2440.547	2441.516	---	---
DH5	Ant1	2480	0.942	2479.565	2480.507	---	---
2DH5	Ant1	2402	1.314	2401.364	2402.678	---	---
2DH5	Ant1	2441	1.341	2440.352	2441.693	---	---
2DH5	Ant1	2480	1.308	2479.370	2480.678	---	---

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

Test Graphs



DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480

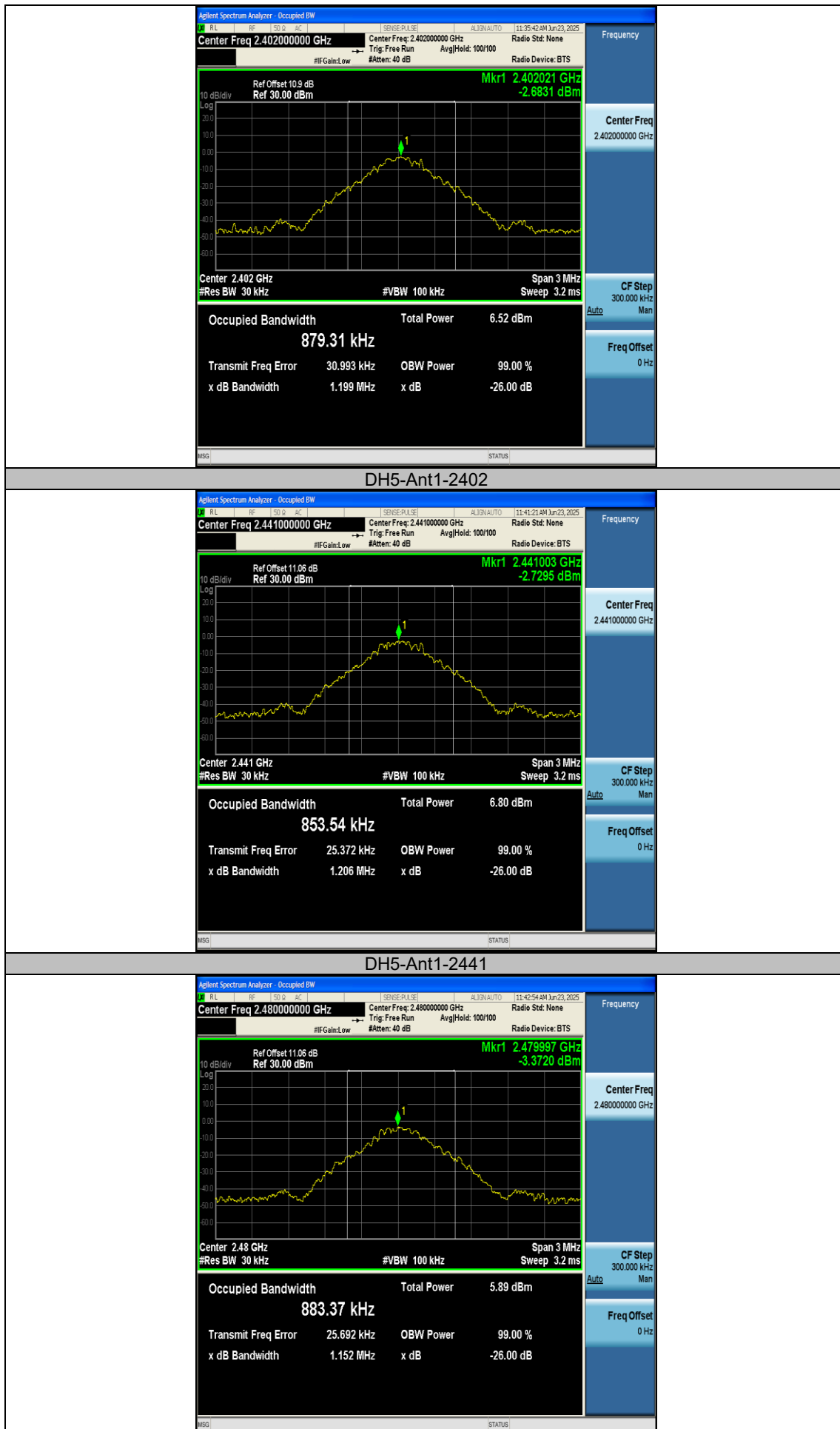
Appendix B: Occupied Channel Bandwidth

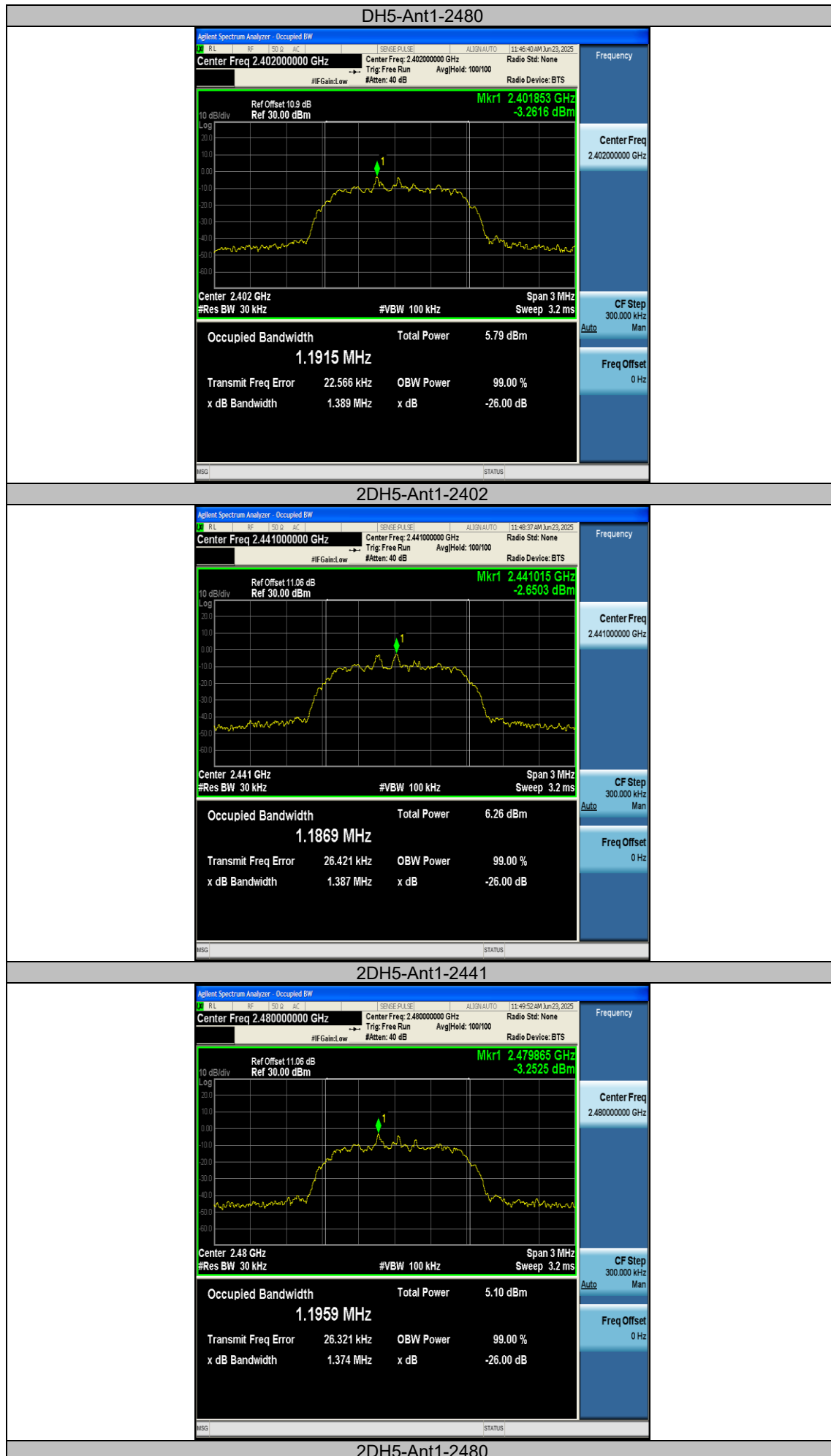
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.87931	2401.5913	2402.4706	---	---
DH5	Ant1	2441	0.85354	2440.5986	2441.4521	---	---
DH5	Ant1	2480	0.88337	2479.5840	2480.4674	---	---
2DH5	Ant1	2402	1.1915	2401.4268	2402.6183	---	---
2DH5	Ant1	2441	1.1869	2440.4330	2441.6199	---	---
2DH5	Ant1	2480	1.1959	2479.4284	2480.6243	---	---

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

Test Graphs





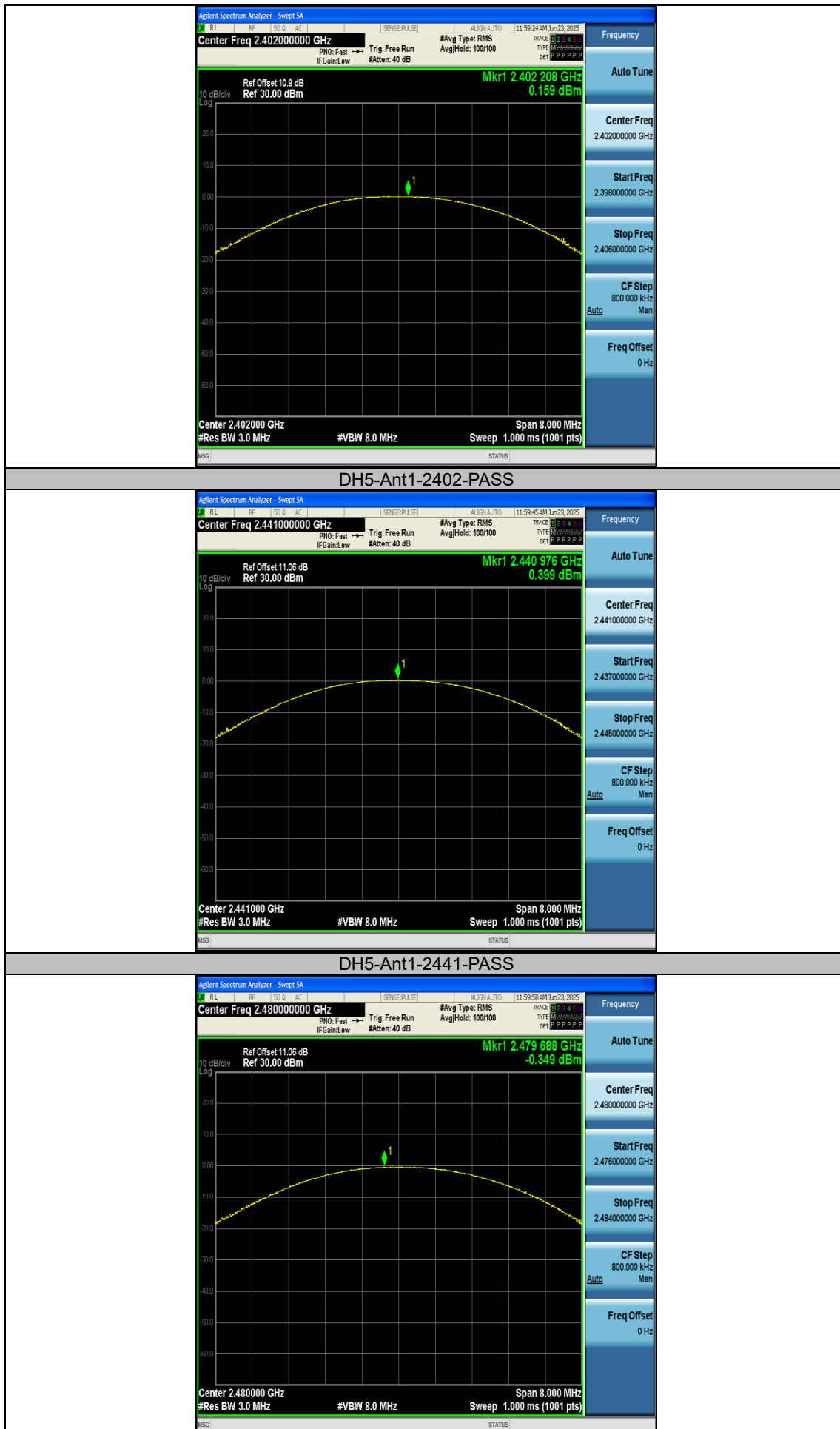
Appendix C: Maximum peak conducted output power

Test Result

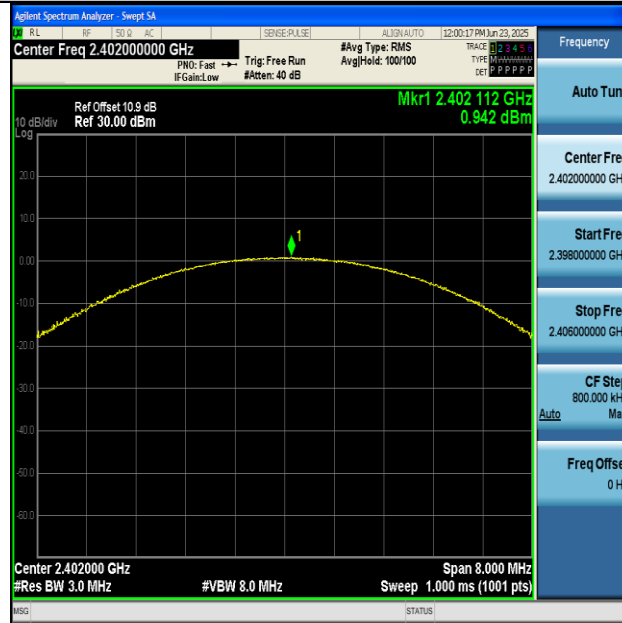
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	0.16	≤30	PASS
DH5	Ant1	2441	0.40	≤30	PASS
DH5	Ant1	2480	-0.35	≤30	PASS
2DH5	Ant1	2402	0.94	≤20.97	PASS
2DH5	Ant1	2441	1.15	≤20.97	PASS
2DH5	Ant1	2480	0.34	≤20.97	PASS

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

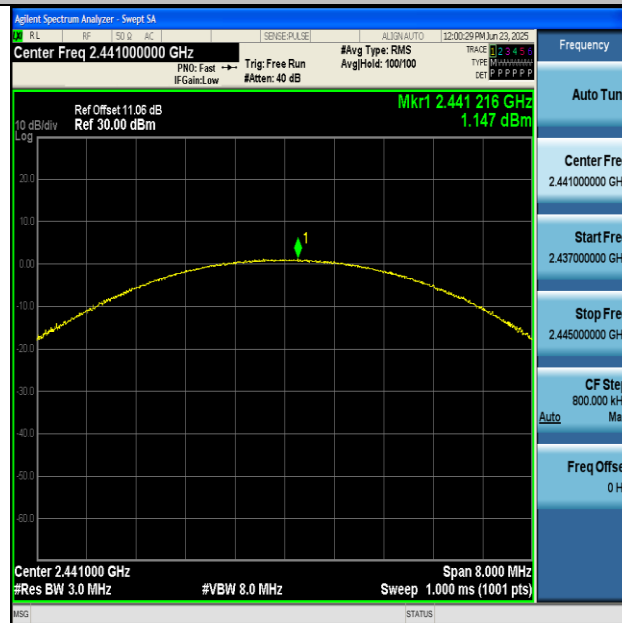
Test Graphs



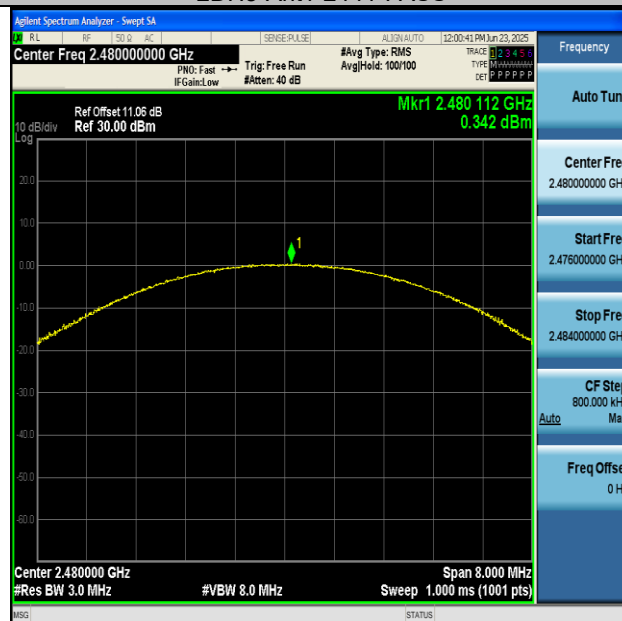
DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS



2DH5-Ant1-2480-PASS

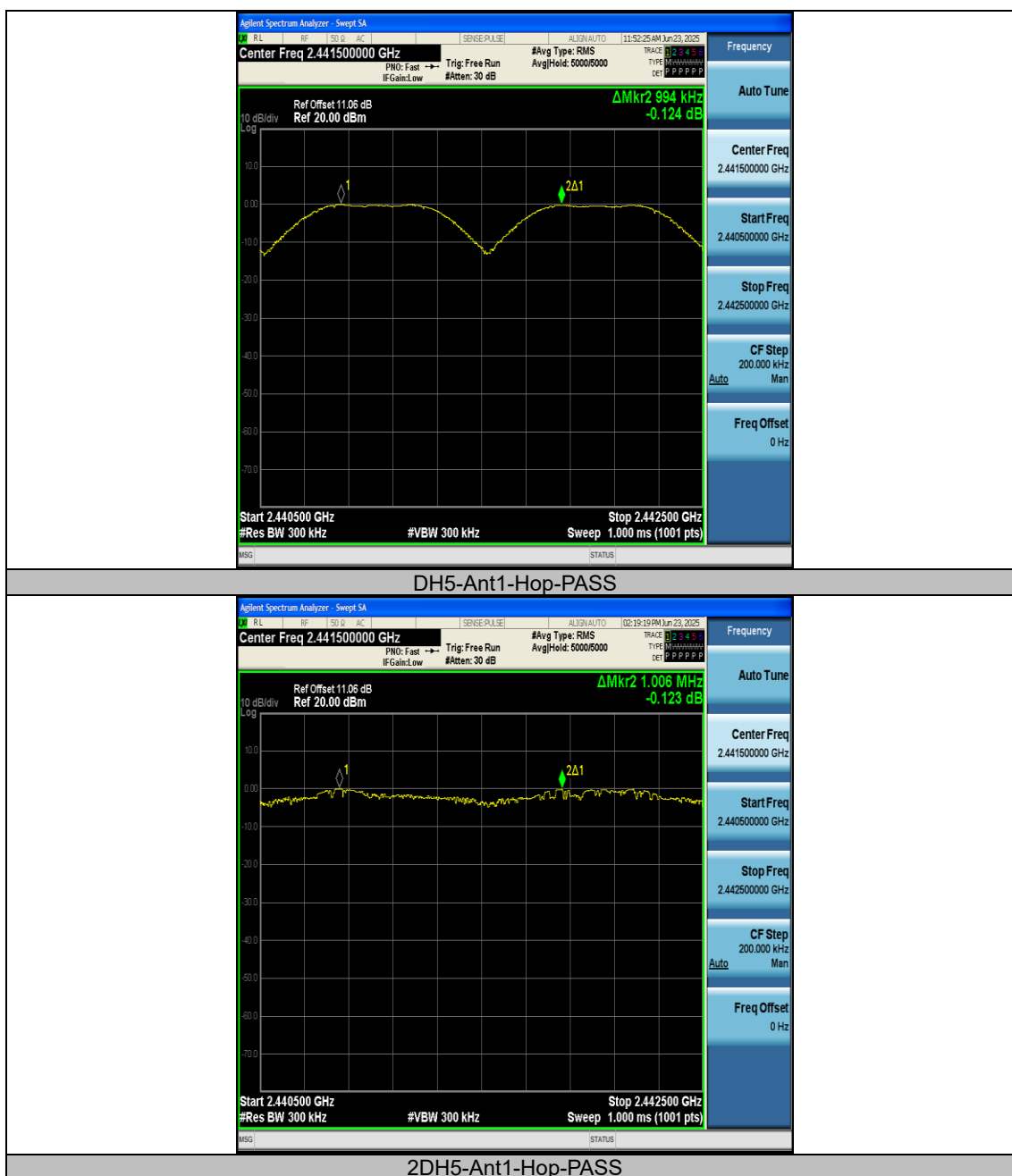
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.969	PASS
2DH5	Ant1	Hop	1.006	≥ 0.894	PASS

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

Test Graphs

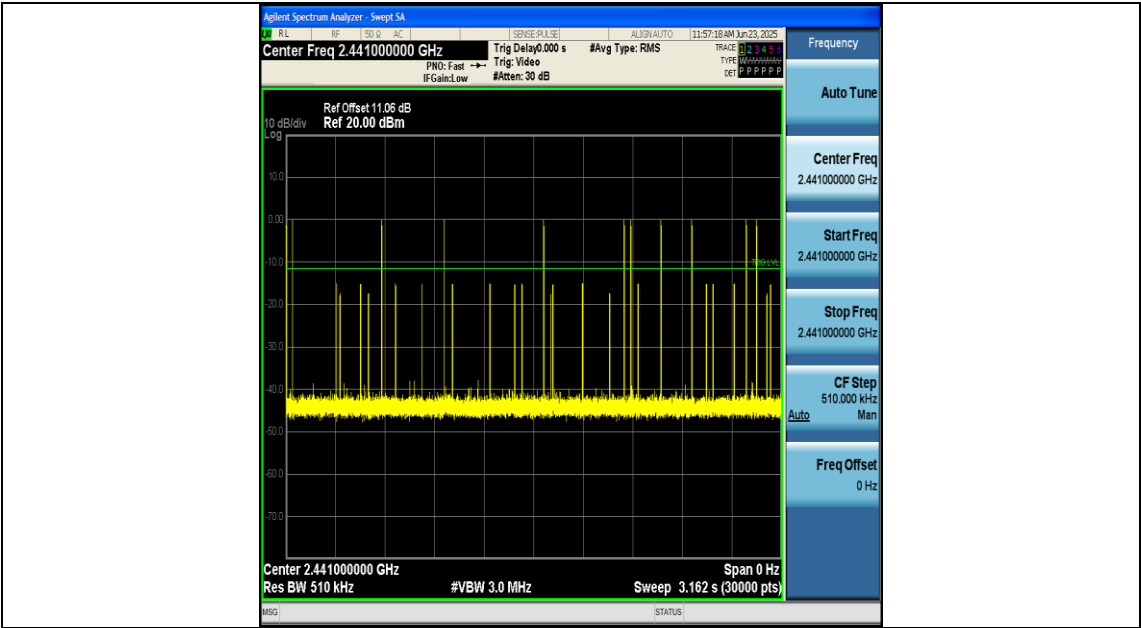


Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.885	90	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.891	110	0.318	≤0.4	PASS

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



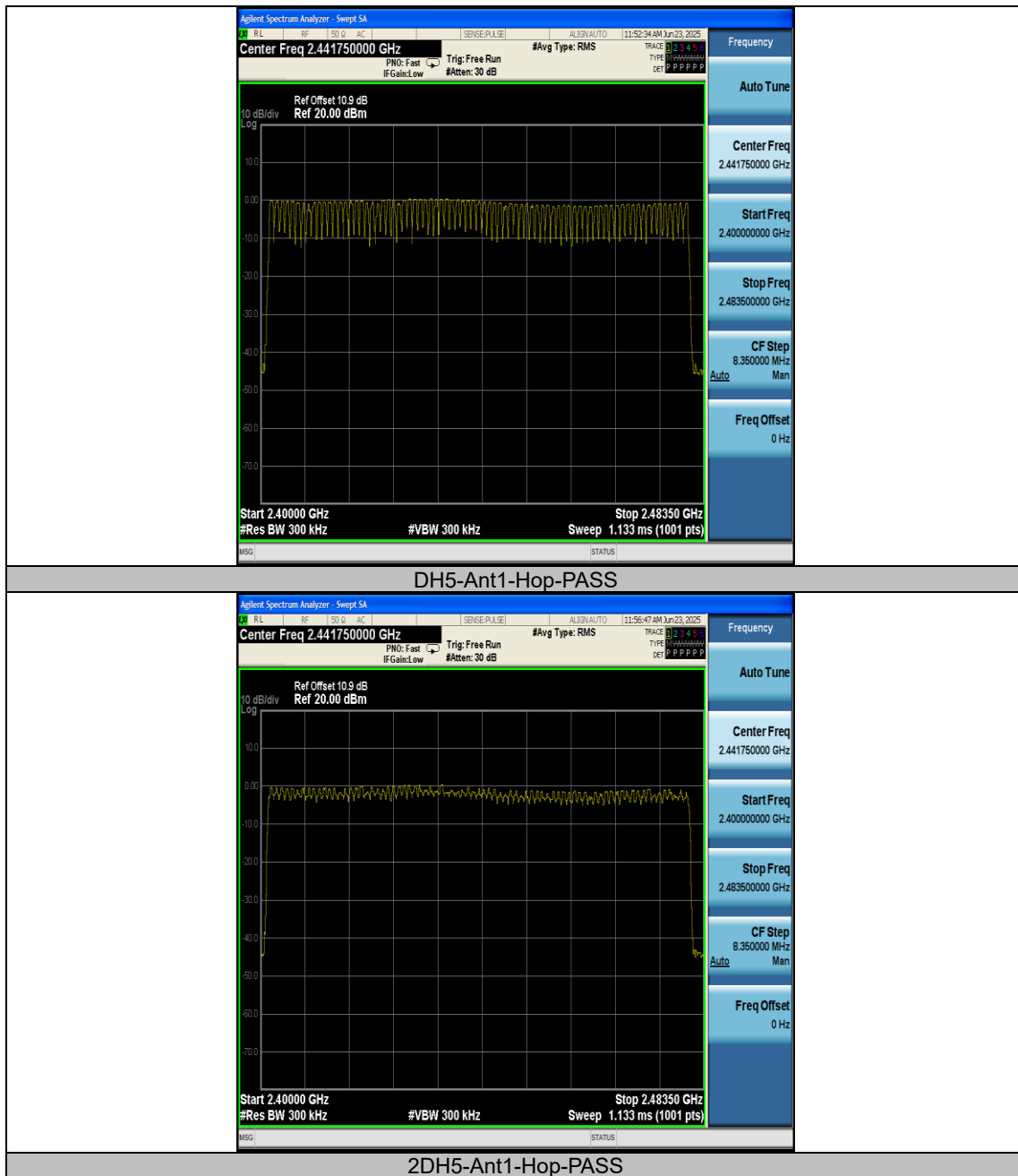
Appendix F: Number of hopping channels

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



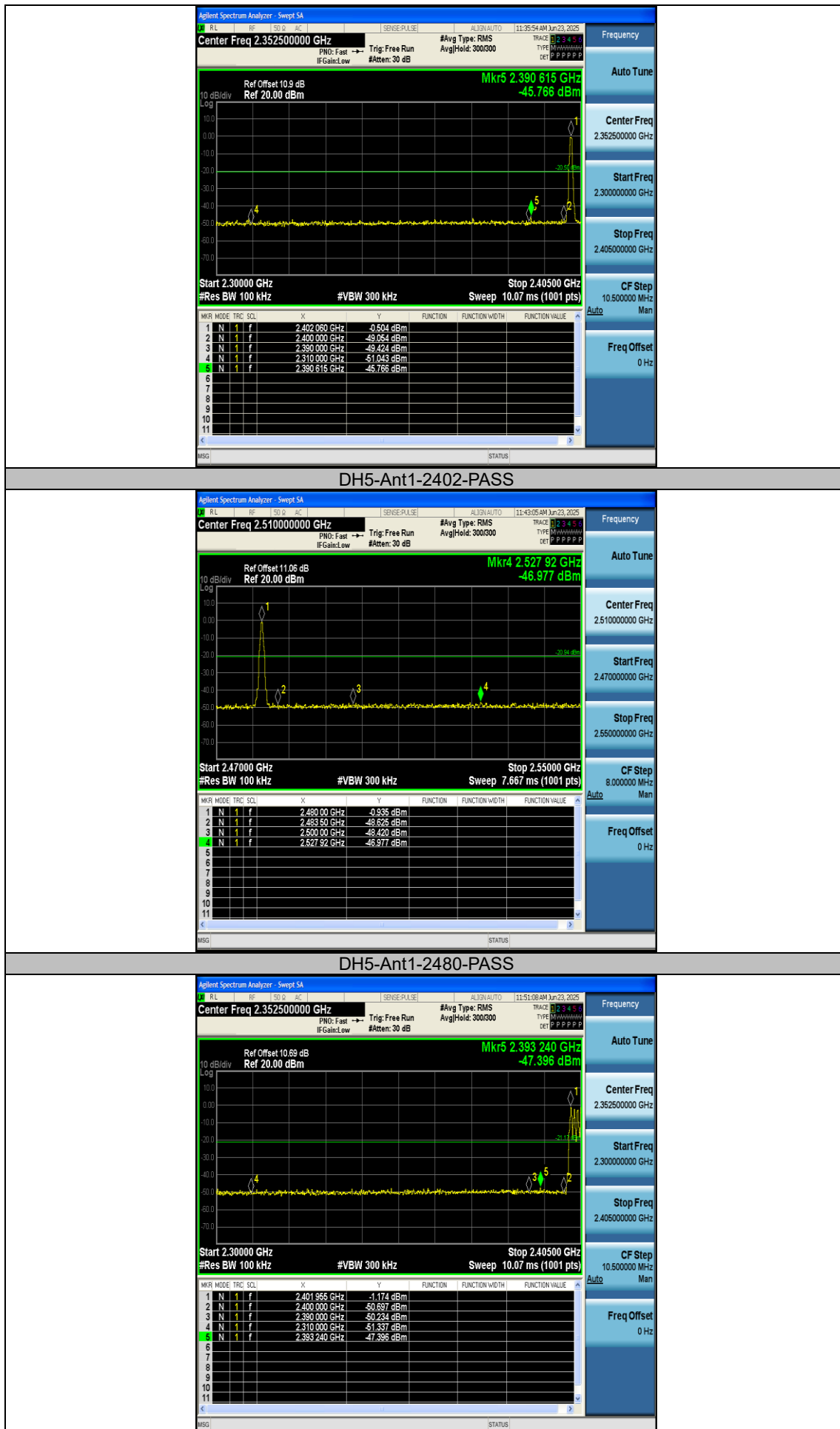
Appendix G: Band edge measurements

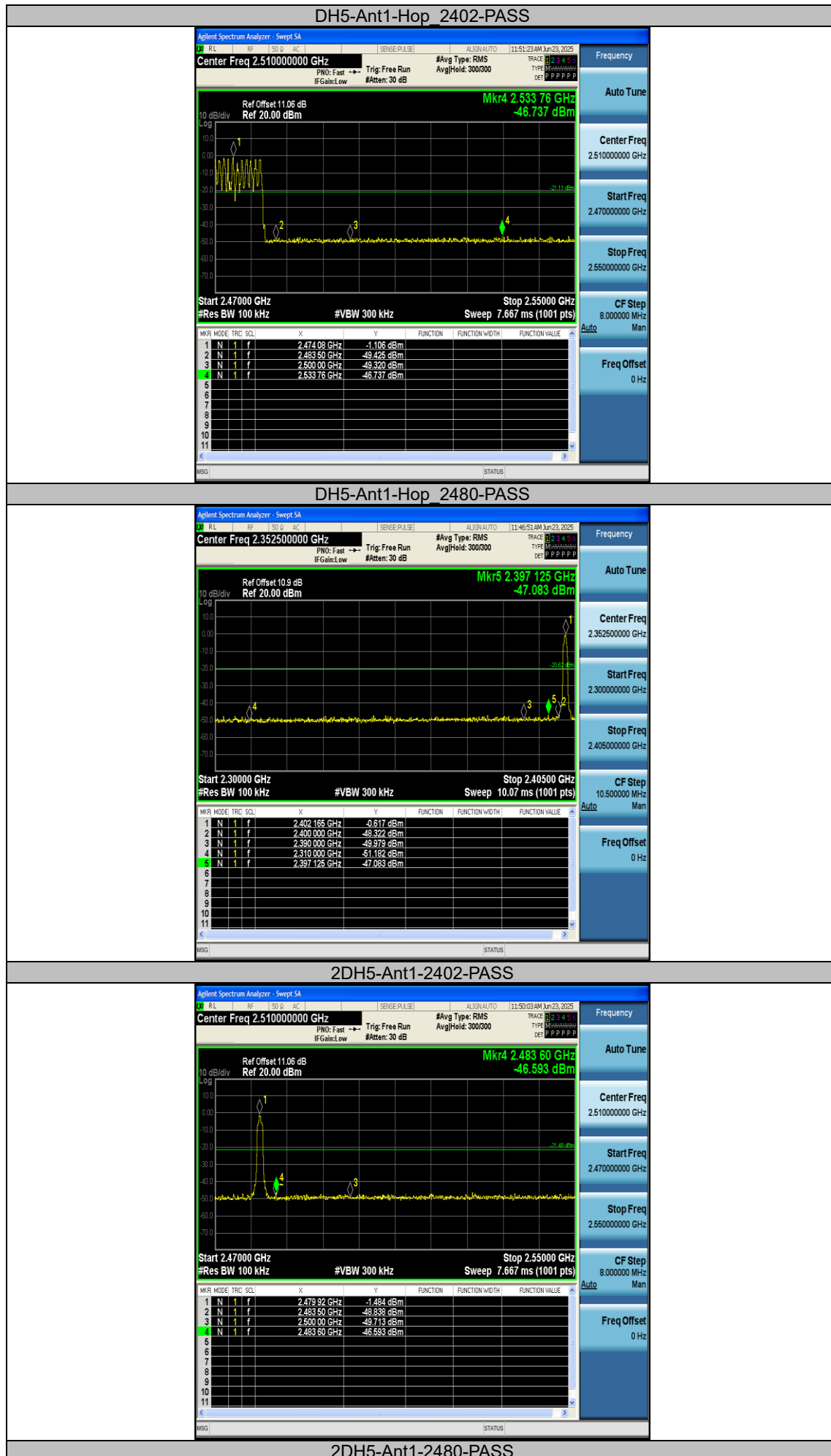
Test Result

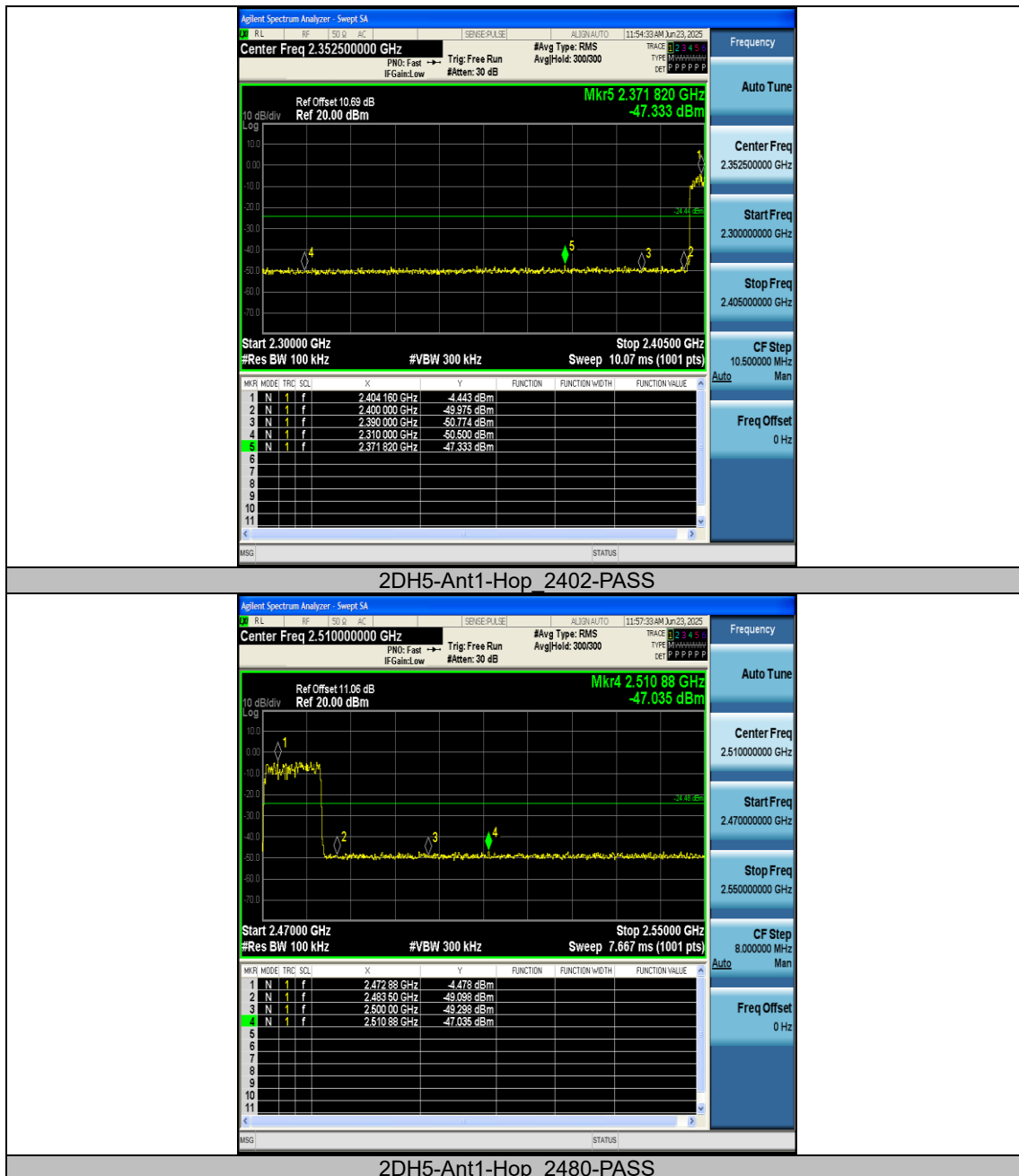
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.50	-45.77	≤ -20.5	PASS
DH5	Ant1	High	2480	-0.94	-46.98	≤ -20.94	PASS
DH5	Ant1	Low	Hop_2402	-1.17	-47.4	≤ -21.17	PASS
DH5	Ant1	High	Hop_2480	-1.11	-46.74	≤ -21.11	PASS
2DH5	Ant1	Low	2402	-0.62	-47.08	≤ -20.62	PASS
2DH5	Ant1	High	2480	-1.48	-46.59	≤ -21.48	PASS
2DH5	Ant1	Low	Hop_2402	-4.44	-47.33	≤ -24.44	PASS
2DH5	Ant1	High	Hop_2480	-4.48	-47.04	≤ -24.48	PASS

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

Test Graphs







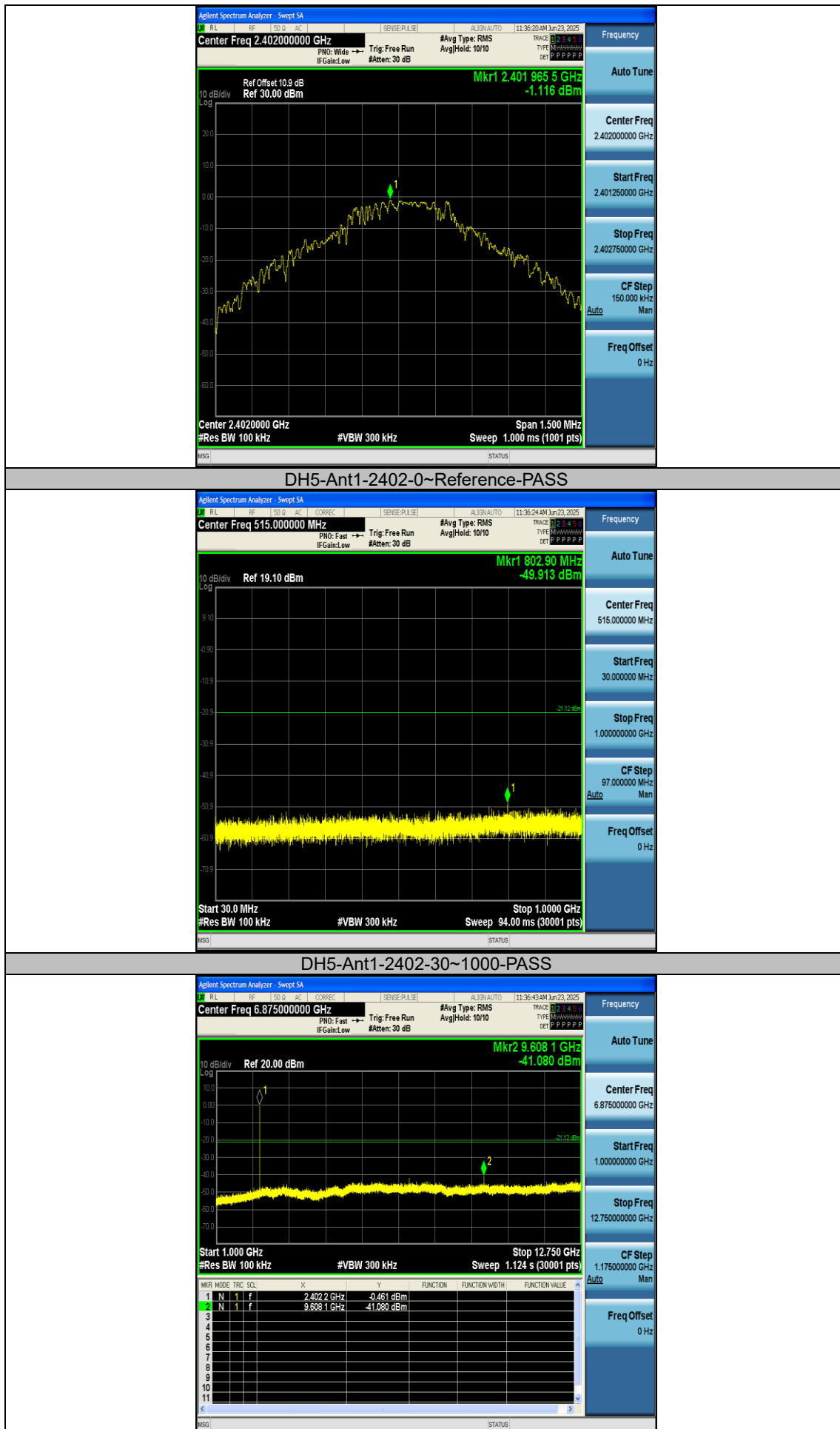
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.12	-1.12	---	PASS
DH5	Ant1	2402	30~1000	-1.12	-49.91	≤-21.12	PASS
DH5	Ant1	2402	1000~12750	-1.12	-41.08	≤-21.12	PASS
DH5	Ant1	2441	0~Reference	-0.85	-0.85	---	PASS
DH5	Ant1	2441	30~1000	-0.85	-50.59	≤-20.85	PASS
DH5	Ant1	2441	1000~12750	-0.85	-40.1	≤-20.85	PASS
DH5	Ant1	2480	0~Reference	-1.61	-1.61	---	PASS
DH5	Ant1	2480	30~1000	-1.61	-51.02	≤-21.61	PASS
DH5	Ant1	2480	1000~12750	-1.61	-38.62	≤-21.61	PASS
2DH5	Ant1	2402	0~Reference	-1.40	-1.40	---	PASS
2DH5	Ant1	2402	30~1000	-1.40	-50.56	≤-21.4	PASS
2DH5	Ant1	2402	1000~12750	-1.40	-40.68	≤-21.4	PASS
2DH5	Ant1	2441	0~Reference	-1.49	-1.49	---	PASS
2DH5	Ant1	2441	30~1000	-1.49	-50.61	≤-21.49	PASS
2DH5	Ant1	2441	1000~12750	-1.49	-40.54	≤-21.49	PASS
2DH5	Ant1	2480	0~Reference	-3.95	-3.95	---	PASS
2DH5	Ant1	2480	30~1000	-3.95	-49.15	≤-23.95	PASS
2DH5	Ant1	2480	1000~12750	-3.95	-38.98	≤-23.95	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.

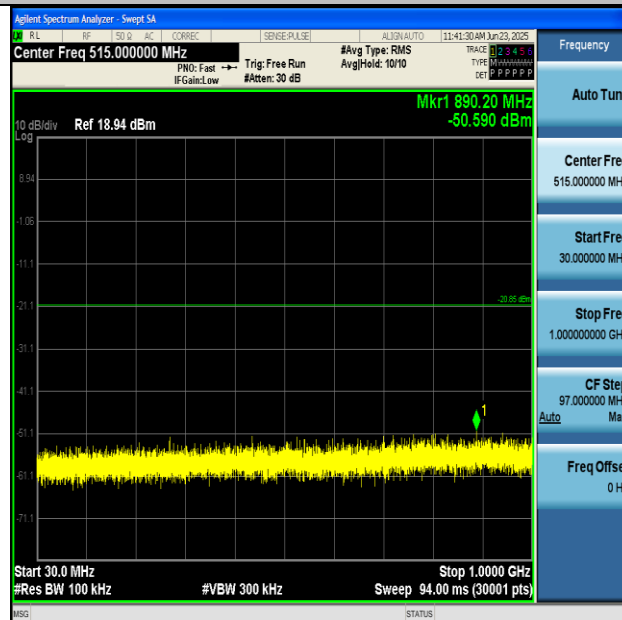
Test Graphs



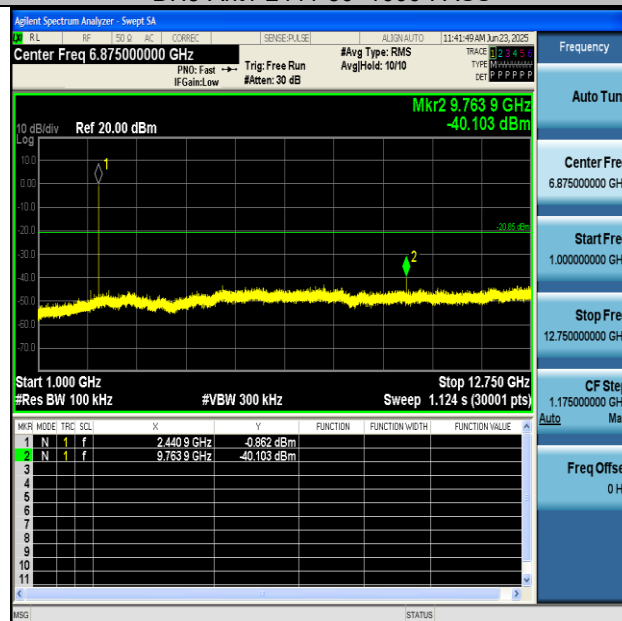
DH5-Ant1-2402-1000~12750-PASS



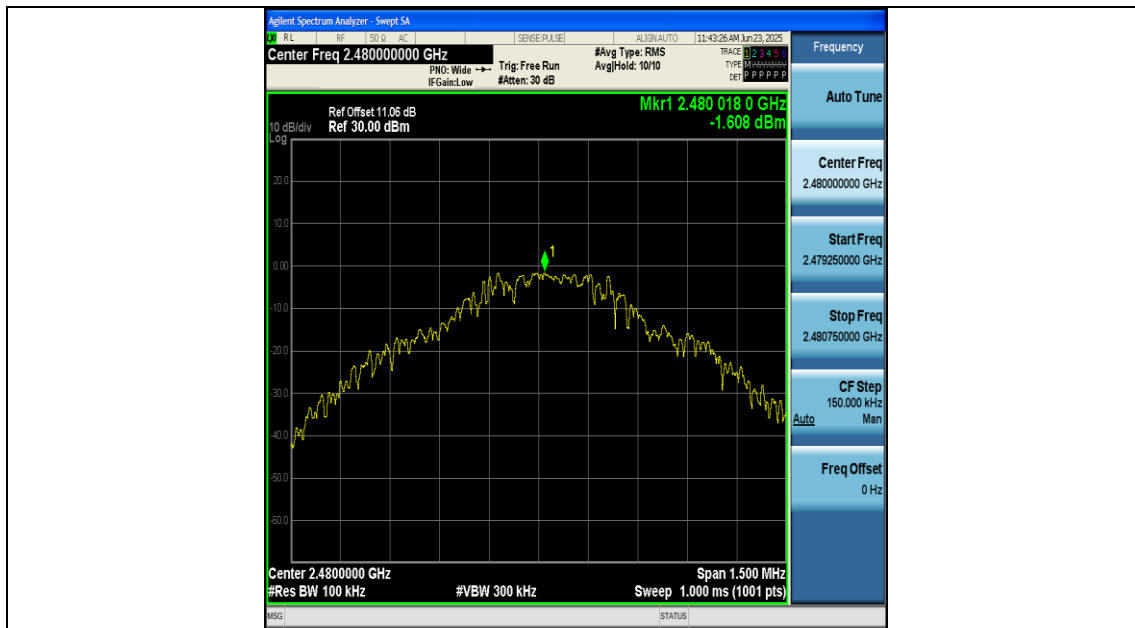
DH5-Ant1-2441-0~Reference-PASS



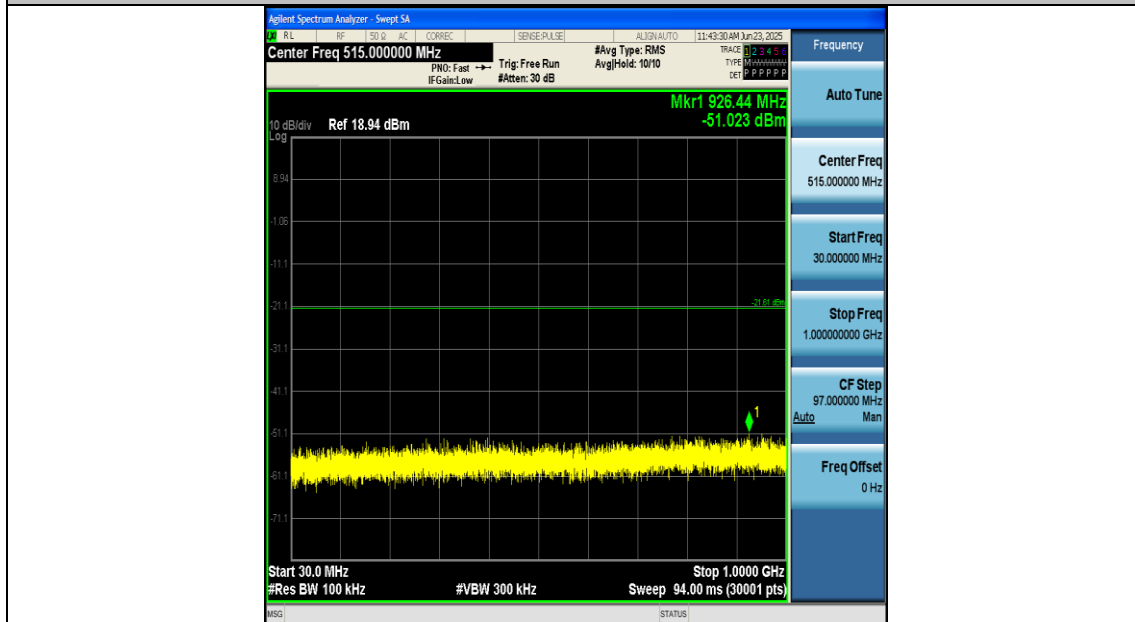
DH5-Ant1-2441-30~1000-PASS



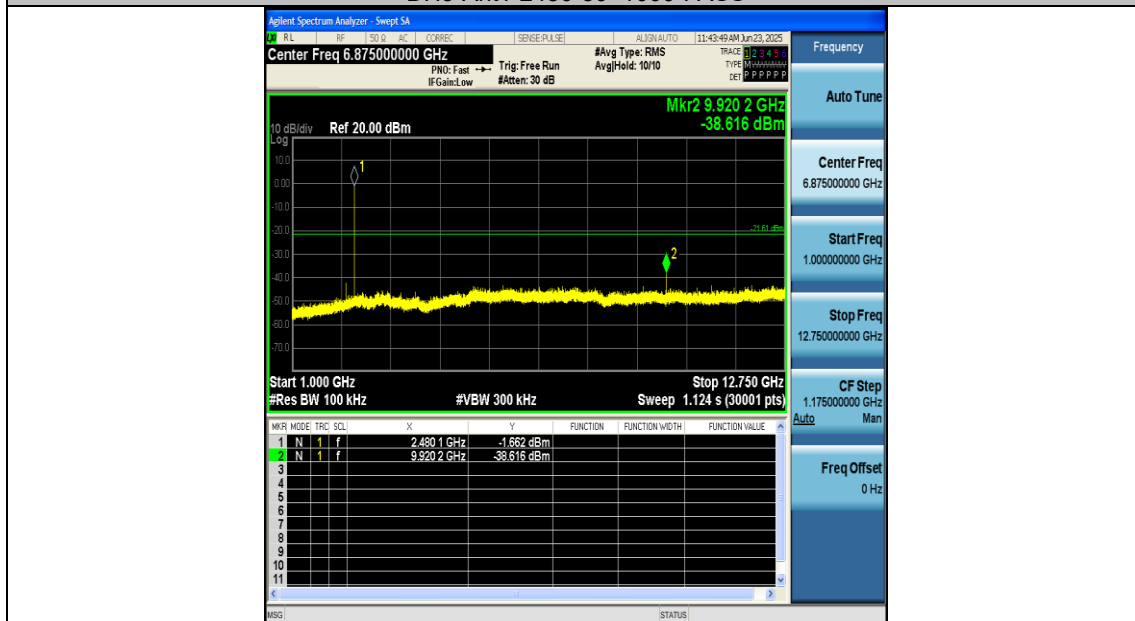
DH5-Ant1-2441-1000~12750-PASS



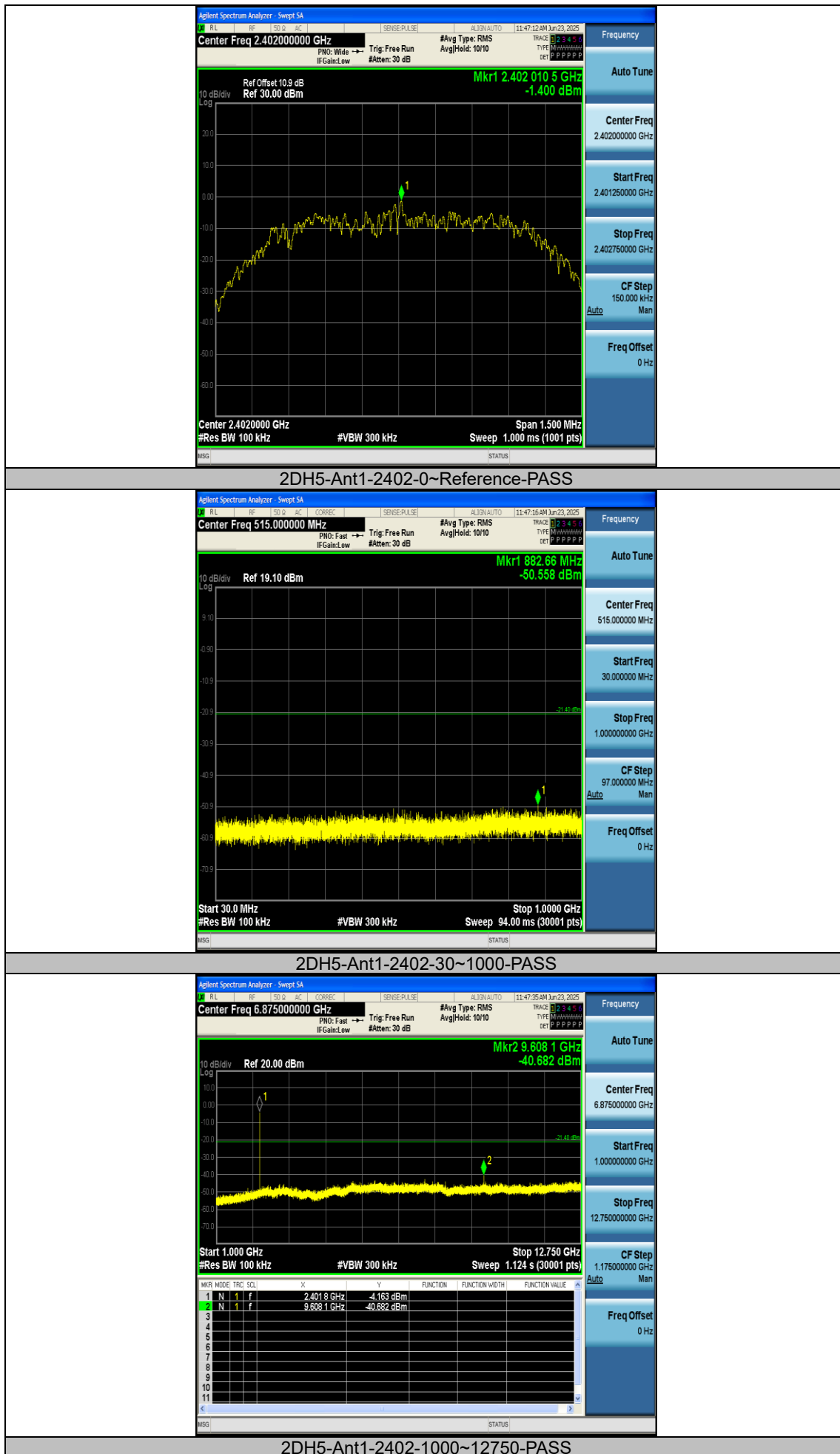
DH5-Ant1-2480-0~Reference-PASS

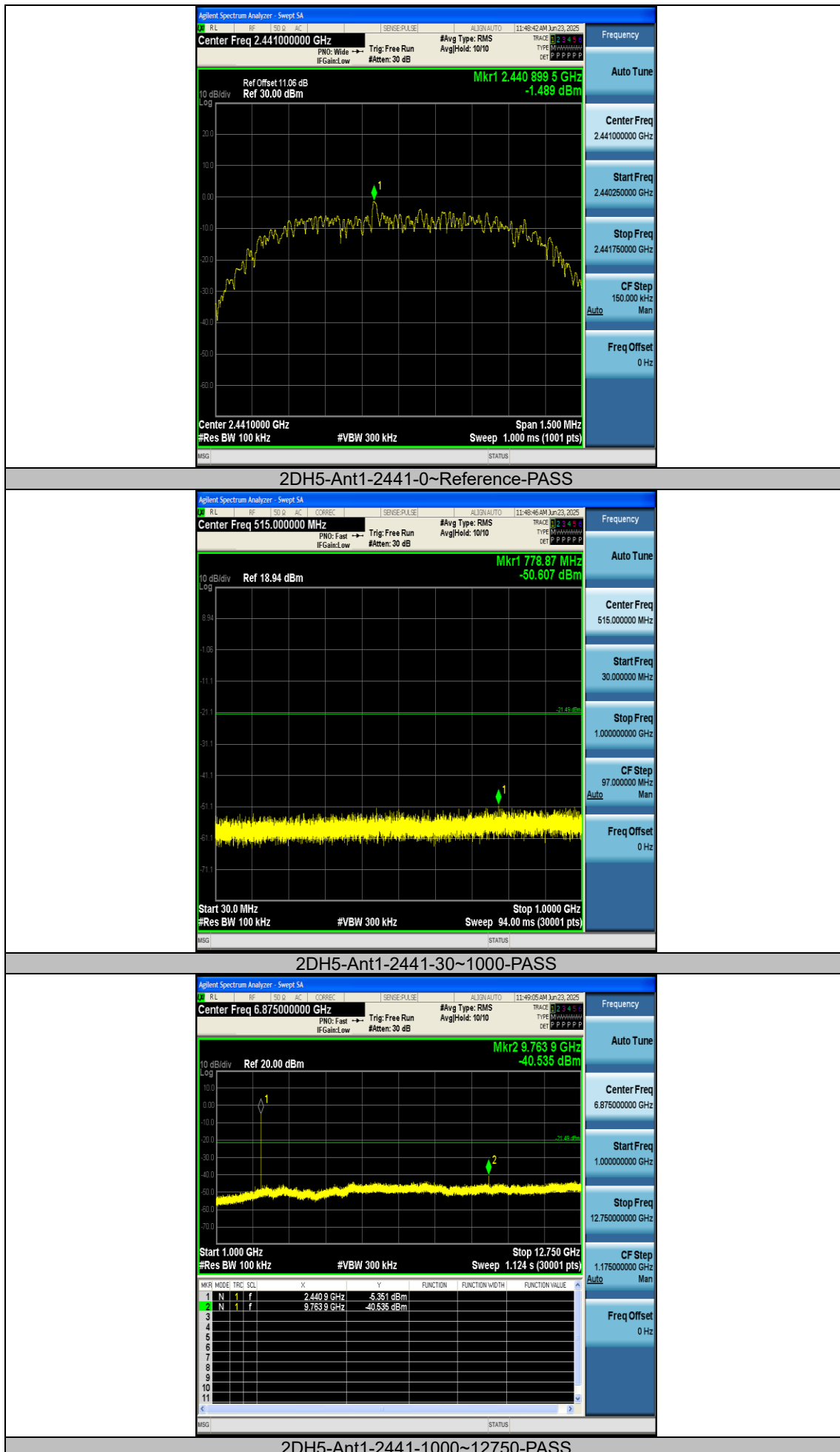


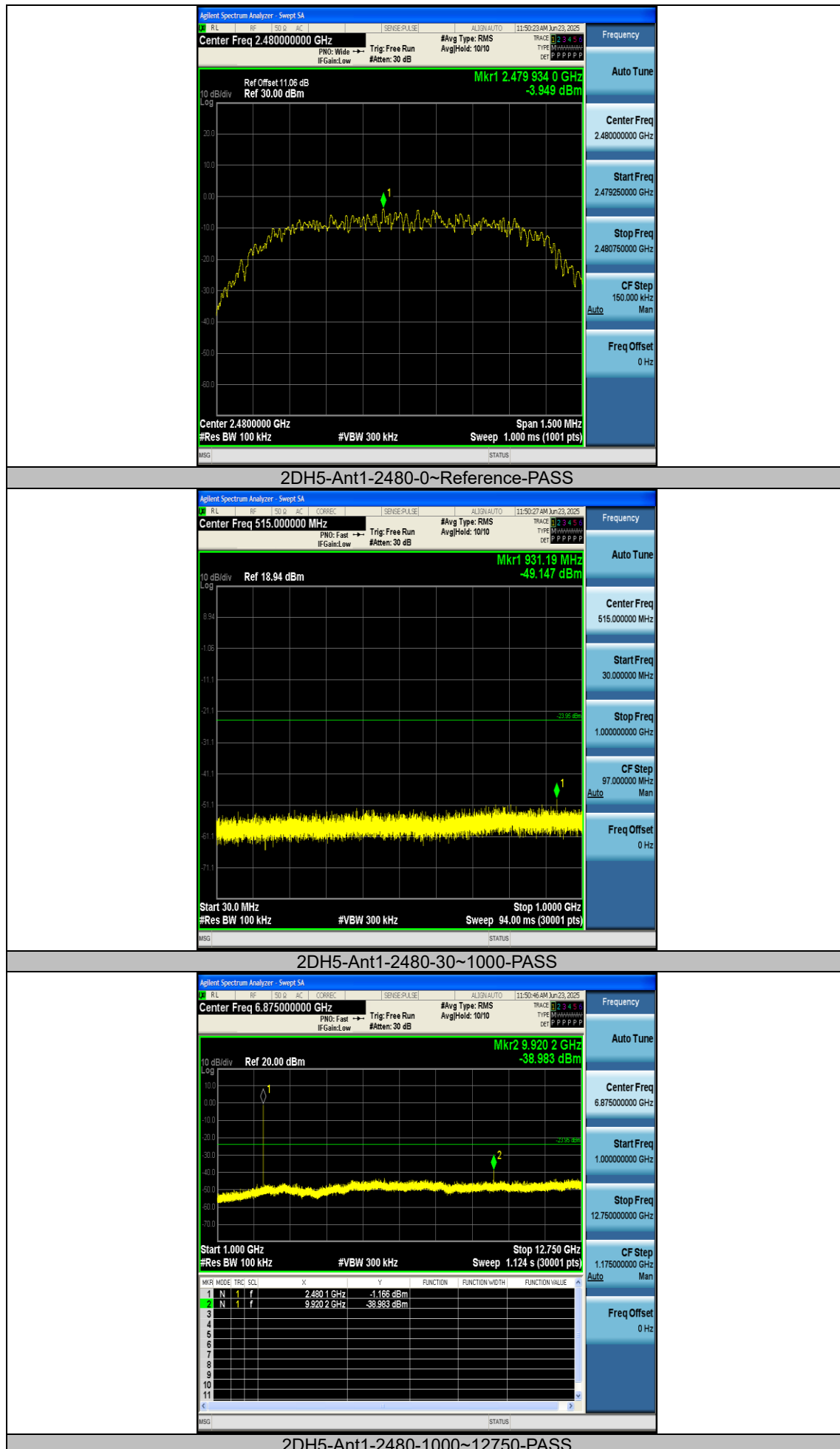
DH5-Ant1-2480-30~1000-PASS



DH5-Ant1-2480-1000~12750-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	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.89	3.76	76.86	1.14
2DH5	Ant1	2402	2.89	3.74	77.27	1.12
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

