

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

Product Name: Wifi Pineapple Pager

Trade Mark: /

Test Model: Mk1

FCC ID: 2A52Y-MK1

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	0.966	2401.532	2402.498	---	---
DH5	Ant1	2441	0.966	2440.532	2441.498	---	---
DH5	Ant1	2480	0.963	2479.535	2480.498	---	---
2DH5	Ant1	2402	1.338	2401.331	2402.669	---	---
2DH5	Ant1	2441	1.332	2440.334	2441.666	---	---
2DH5	Ant1	2480	1.368	2479.322	2480.690	---	---
3DH5	Ant1	2402	1.311	2401.349	2402.660	---	---
3DH5	Ant1	2441	1.317	2440.346	2441.663	---	---
3DH5	Ant1	2480	1.311	2479.352	2480.663	---	---

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

Test Graphs



DH5-Ant1-2402



DH5-Ant1-2441



DH5-Ant1-2480



2DH5-Ant1-2402



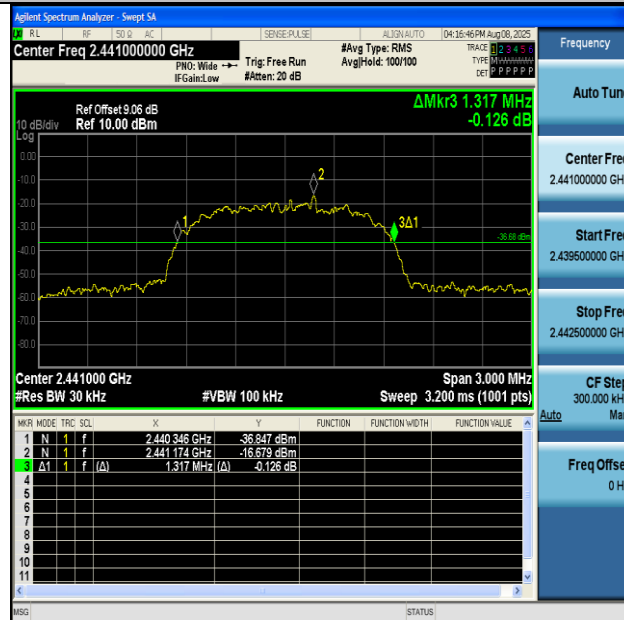
2DH5-Ant1-2441



2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



Appendix B: Occupied Channel Bandwidth

Test Result

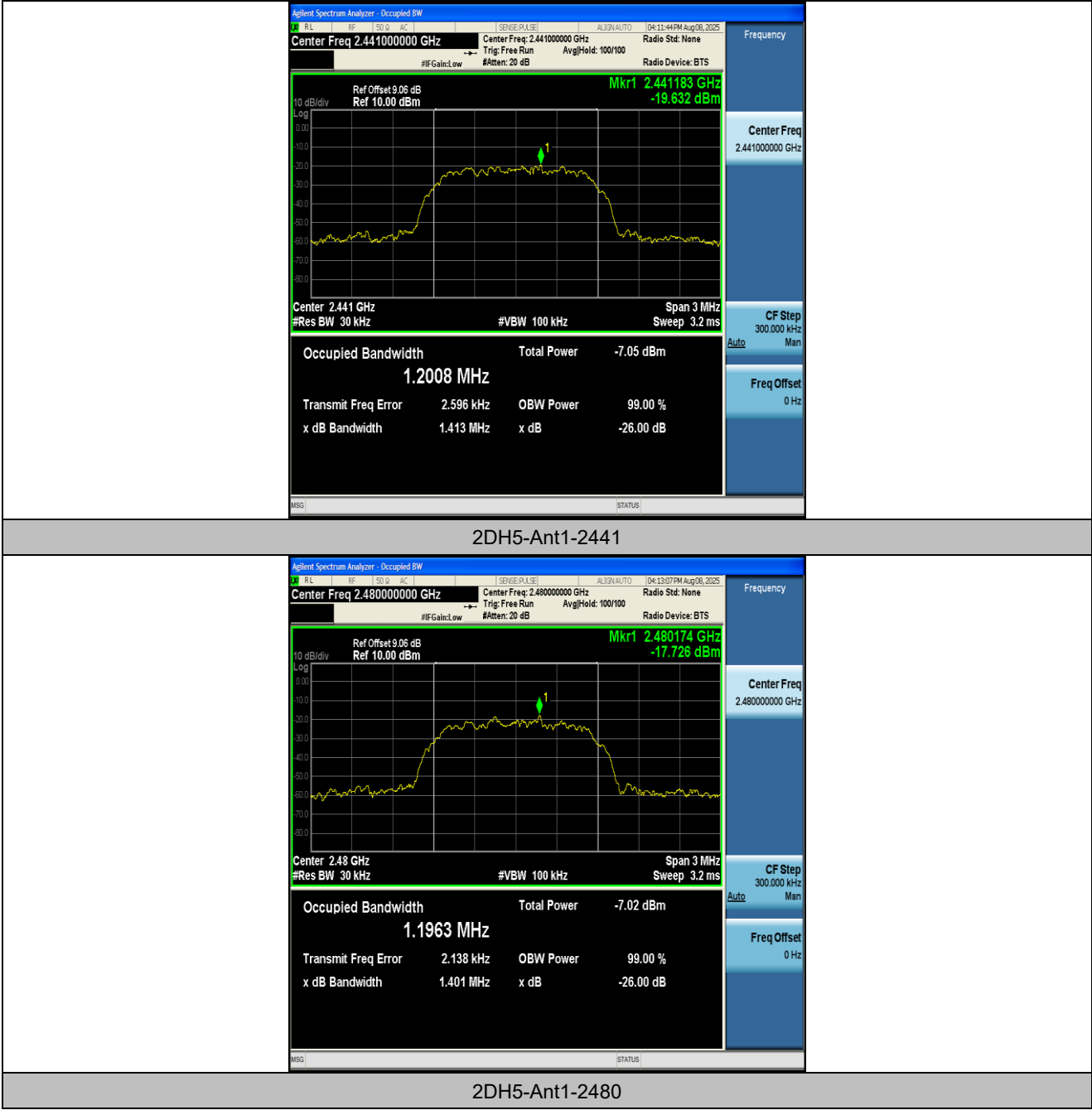
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.88482	2401.5618	2402.4466	---	---
DH5	Ant1	2441	0.89673	2440.5583	2441.4550	---	---
DH5	Ant1	2480	0.87327	2479.5701	2480.4433	---	---
2DH5	Ant1	2402	1.1989	2401.4019	2402.6008	---	---
2DH5	Ant1	2441	1.2008	2440.4022	2441.6030	---	---
2DH5	Ant1	2480	1.1963	2479.4040	2480.6003	---	---
3DH5	Ant1	2402	1.2055	2401.3987	2402.6042	---	---
3DH5	Ant1	2441	1.2074	2440.3950	2441.6024	---	---
3DH5	Ant1	2480	1.2015	2479.4028	2480.6043	---	---

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

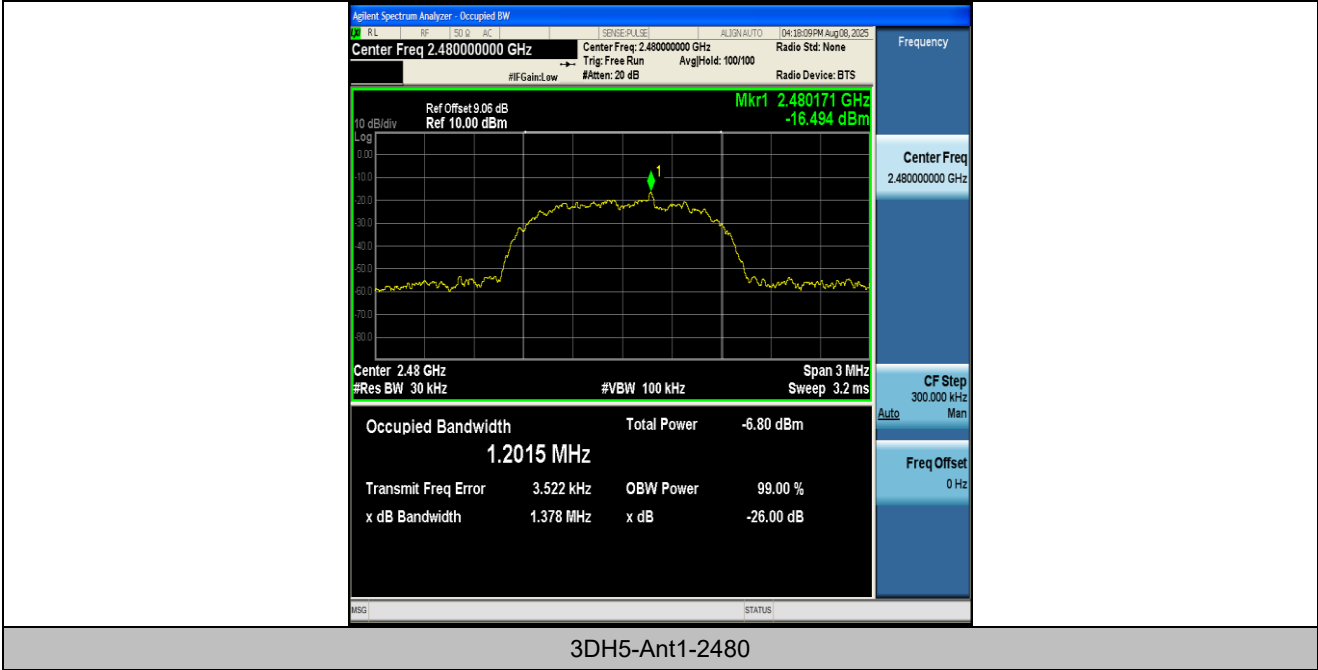
Test Graphs











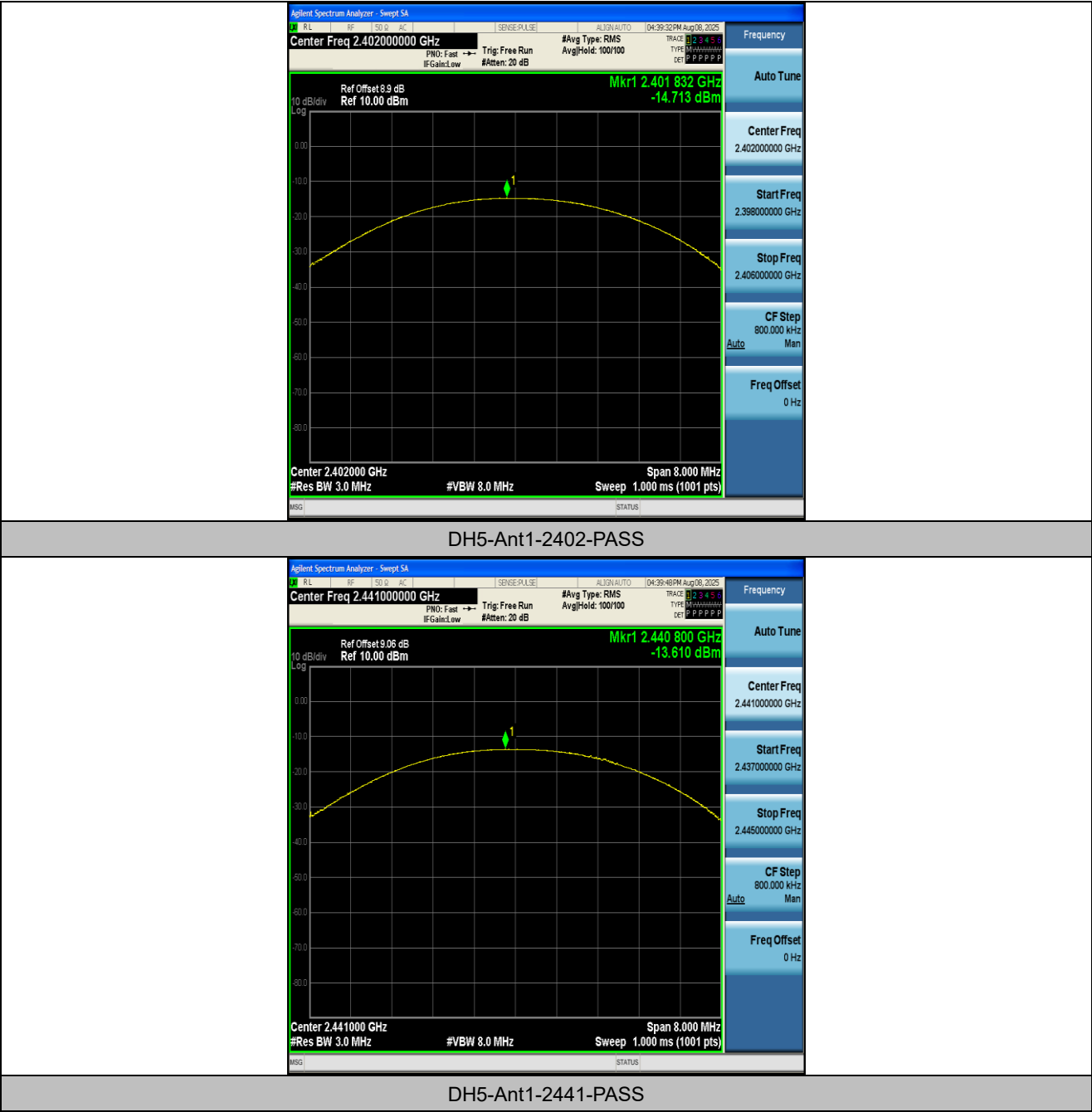
Appendix C: Maximum peak conducted output power

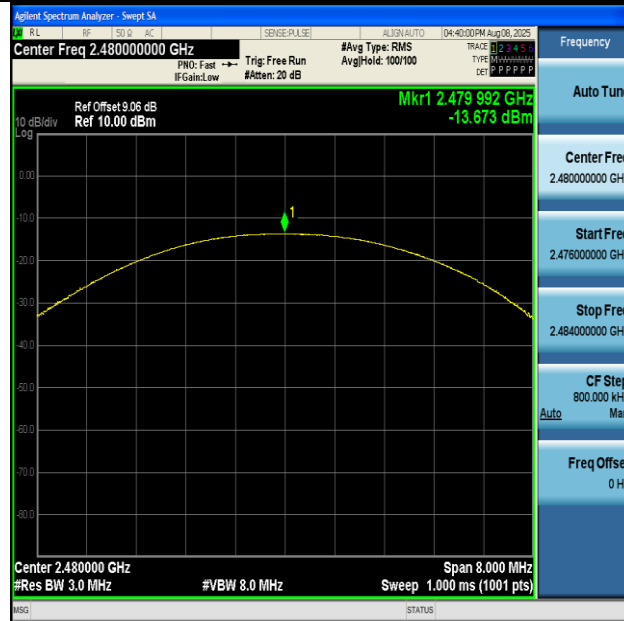
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-14.71	≤30	PASS
DH5	Ant1	2441	-13.61	≤30	PASS
DH5	Ant1	2480	-13.67	≤30	PASS
2DH5	Ant1	2402	-12.47	≤20.97	PASS
2DH5	Ant1	2441	-11.34	≤20.97	PASS
2DH5	Ant1	2480	-11.45	≤20.97	PASS
3DH5	Ant1	2402	-11.95	≤20.97	PASS
3DH5	Ant1	2441	-10.75	≤20.97	PASS
3DH5	Ant1	2480	-10.87	≤20.97	PASS

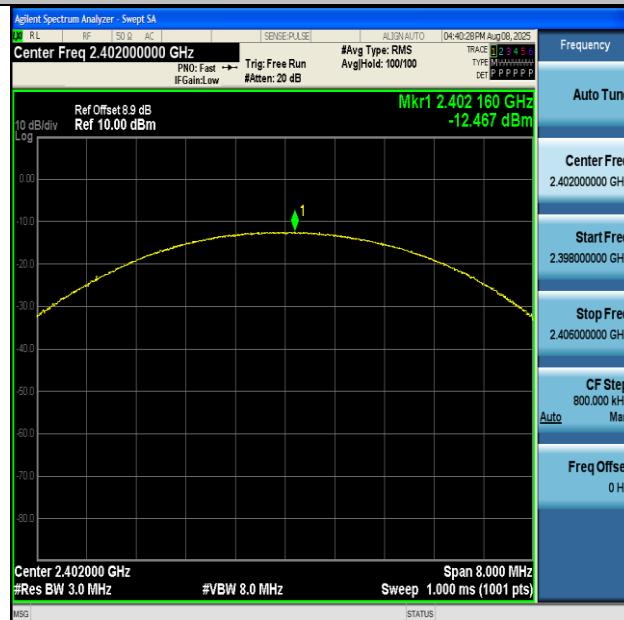
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

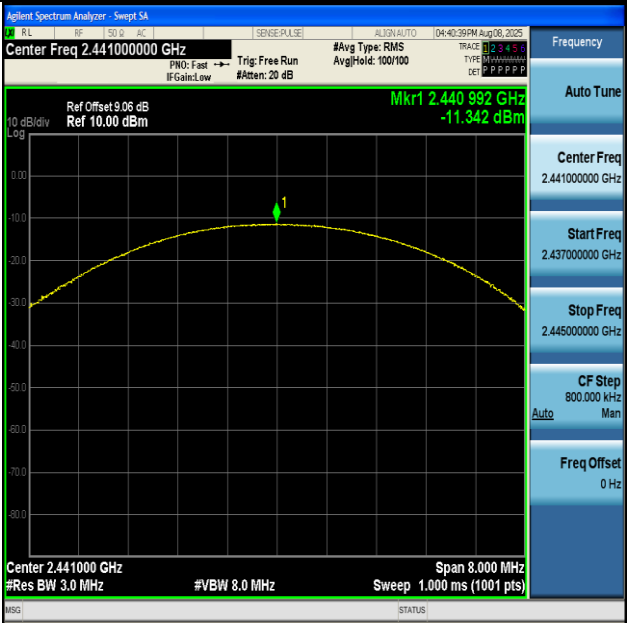




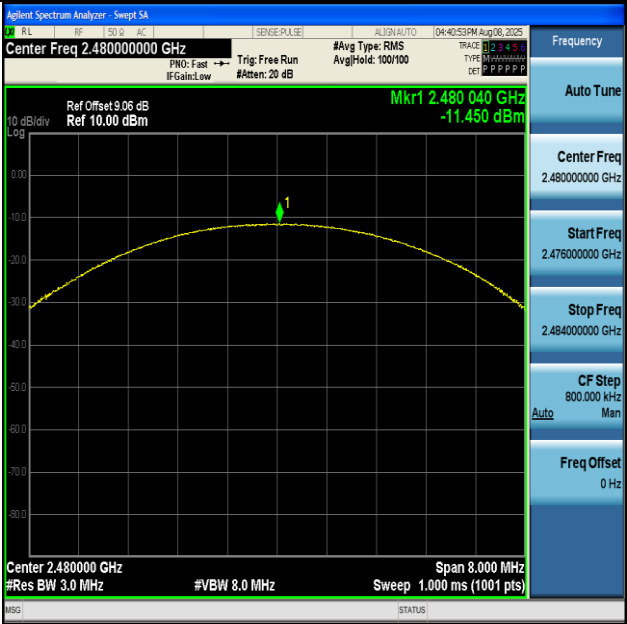
DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



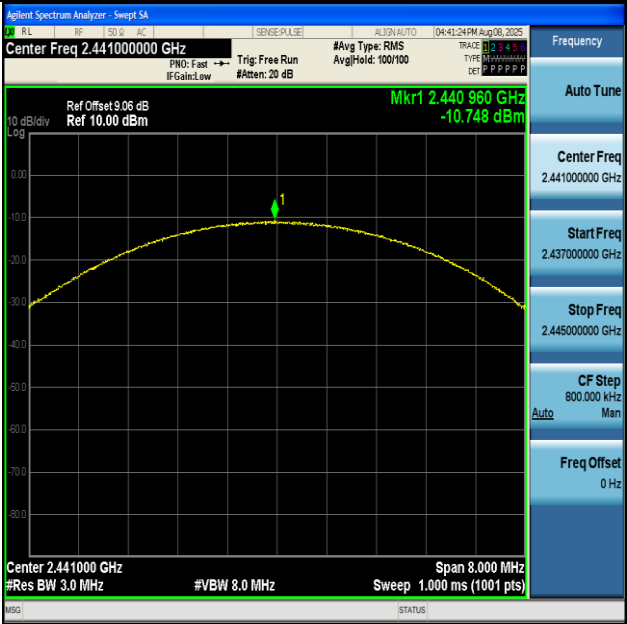
2DH5-Ant1-2441-PASS



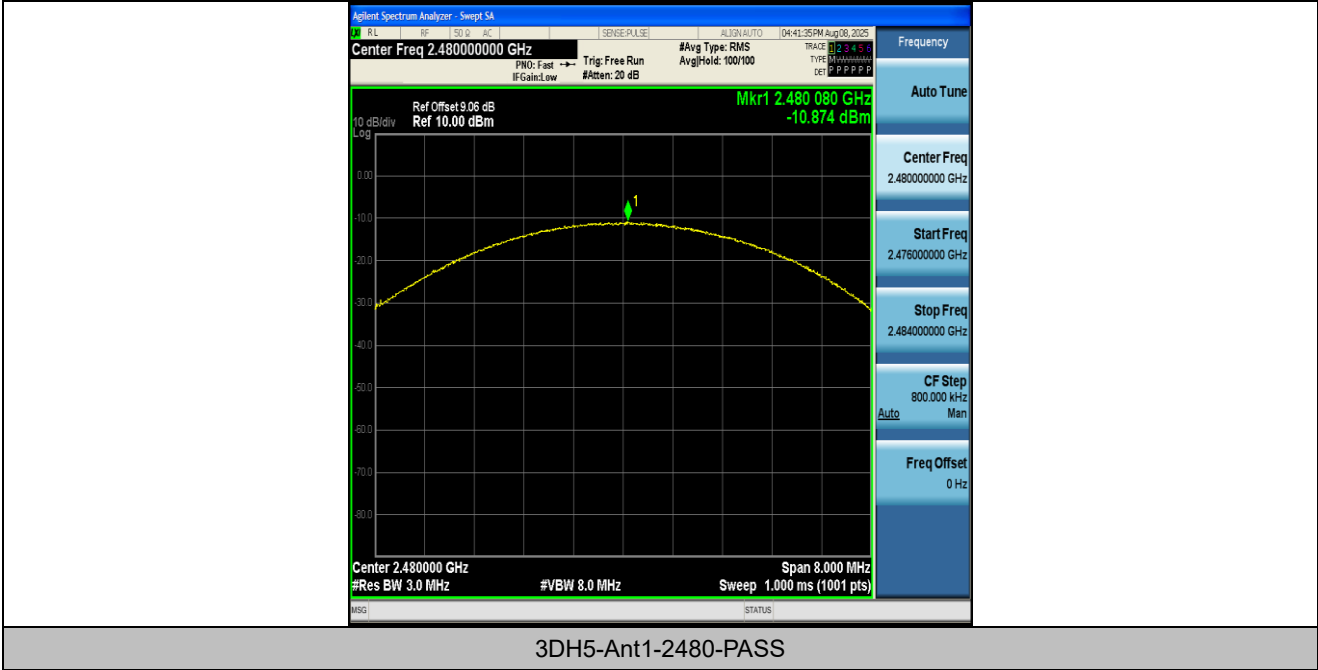
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



Appendix D: Carrier frequency separation

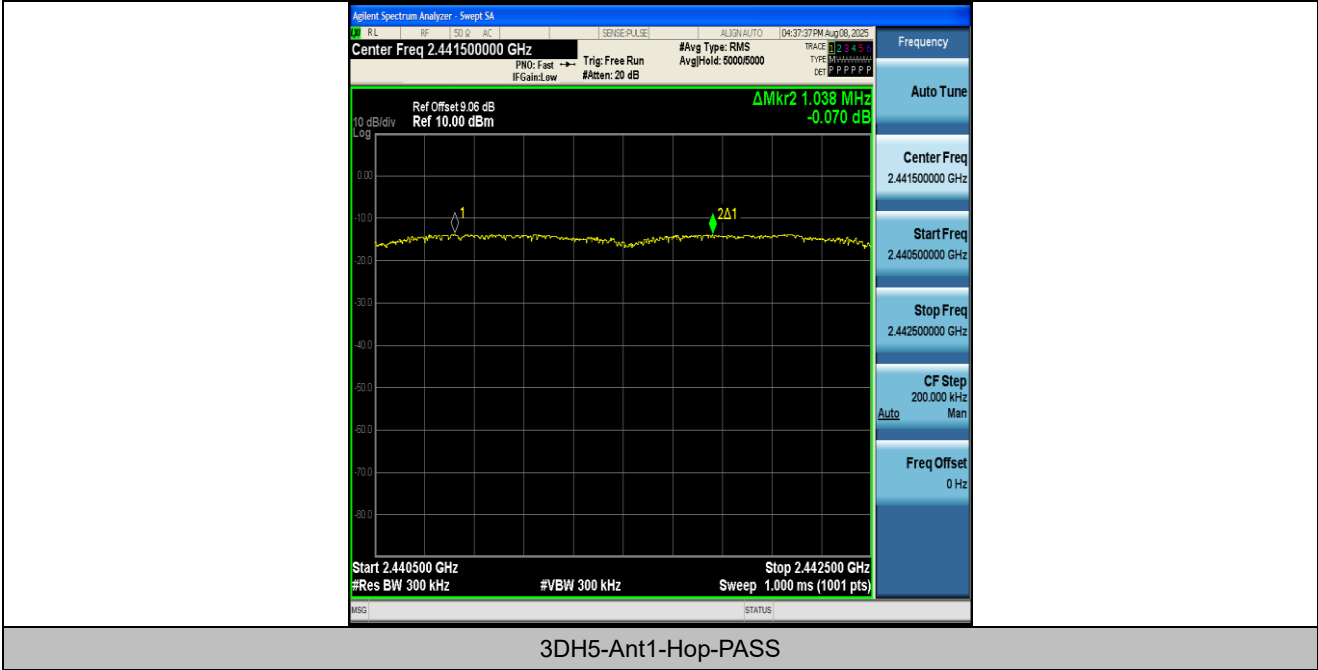
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.006	≥ 0.966	PASS
2DH5	Ant1	Hop	0.954	≥ 0.912	PASS
3DH5	Ant1	Hop	1.038	≥ 0.878	PASS

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

Test Graphs





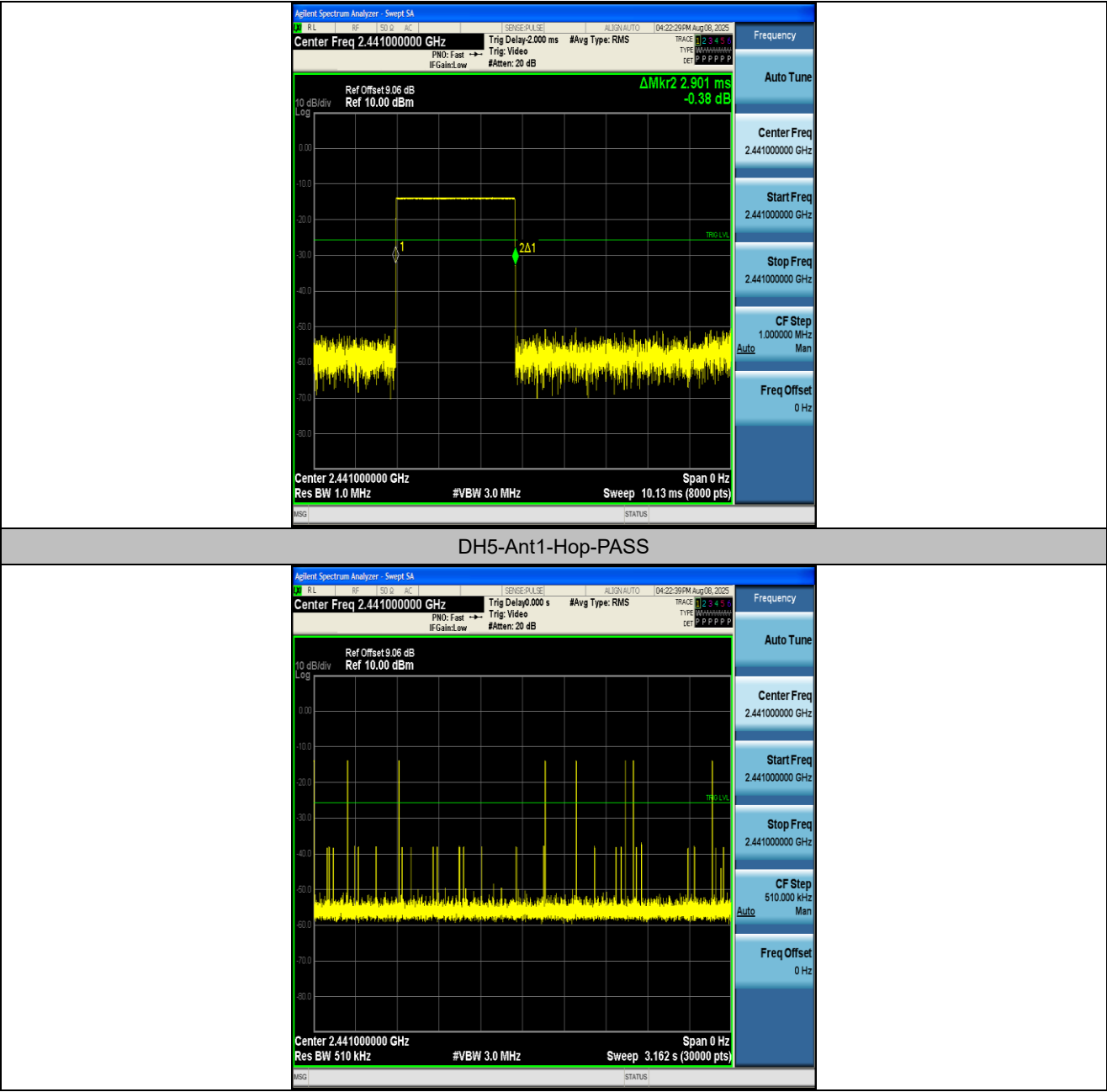
Appendix E: Time of occupancy

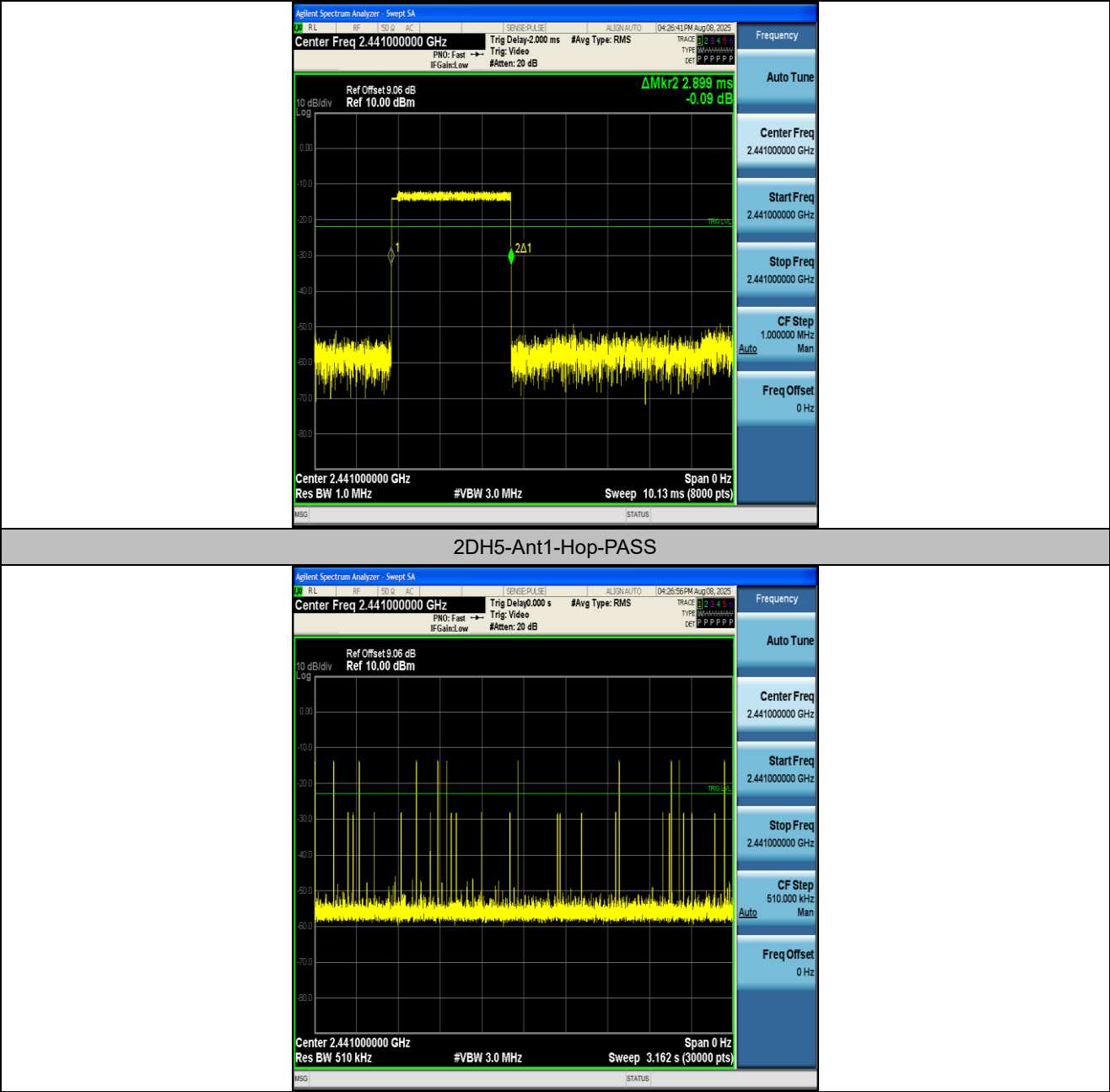
Test Result

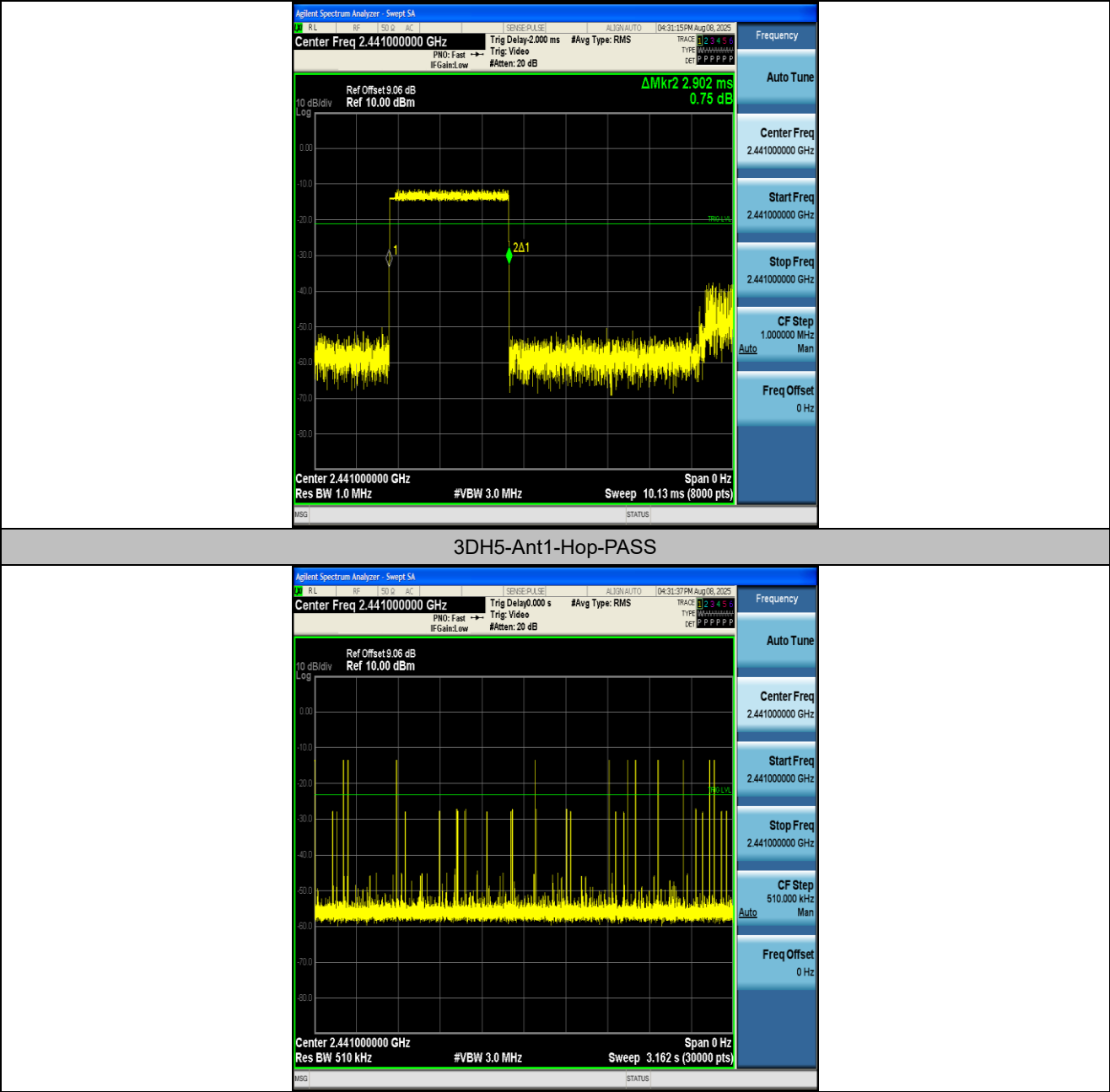
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.901	80	0.232	≤0.4	PASS
2DH5	Ant1	Hop	2.899	110	0.319	≤0.4	PASS
3DH5	Ant1	Hop	2.902	120	0.348	≤0.4	PASS

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

Test Graphs







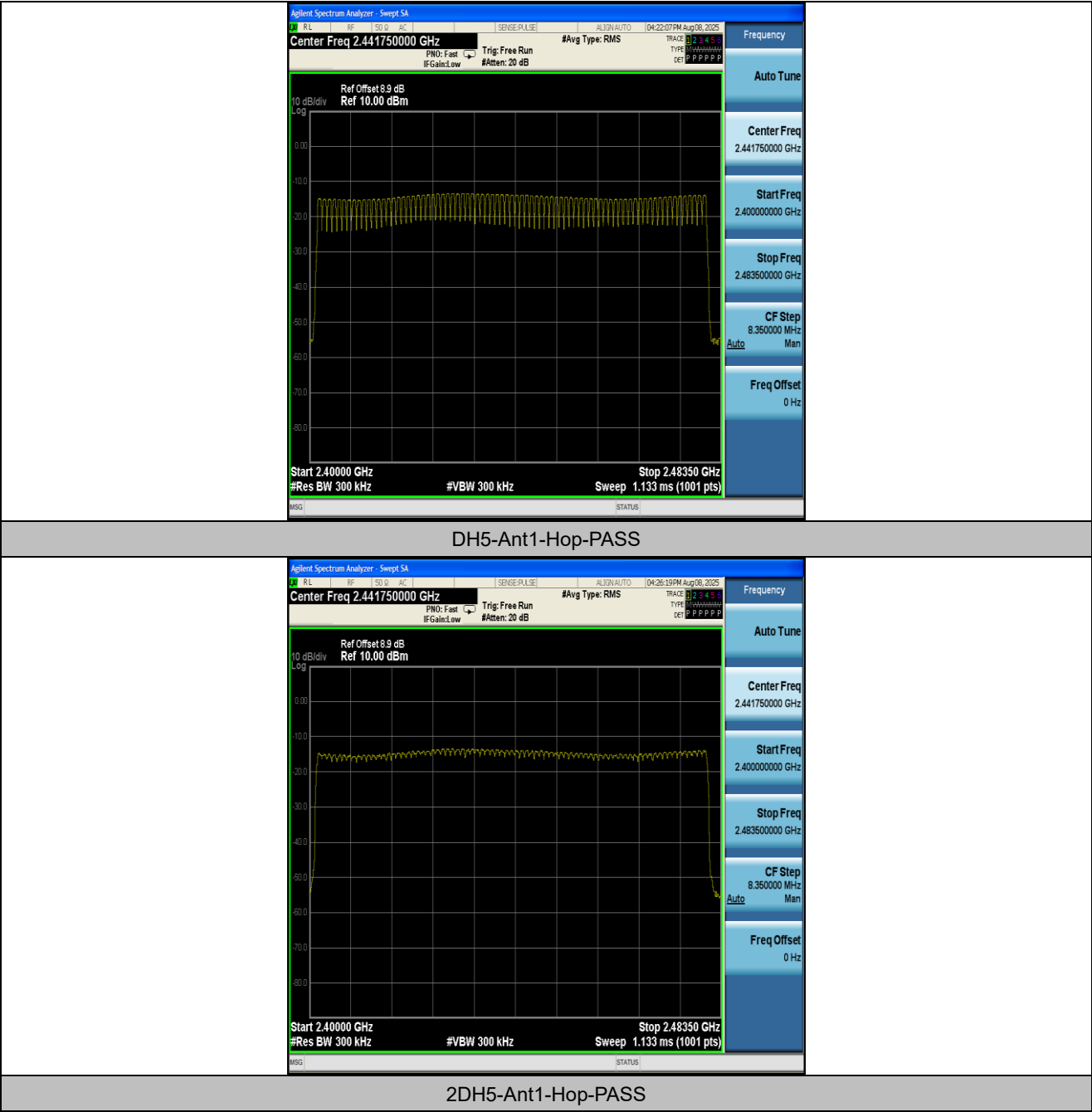
Appendix F: Number of hopping channels

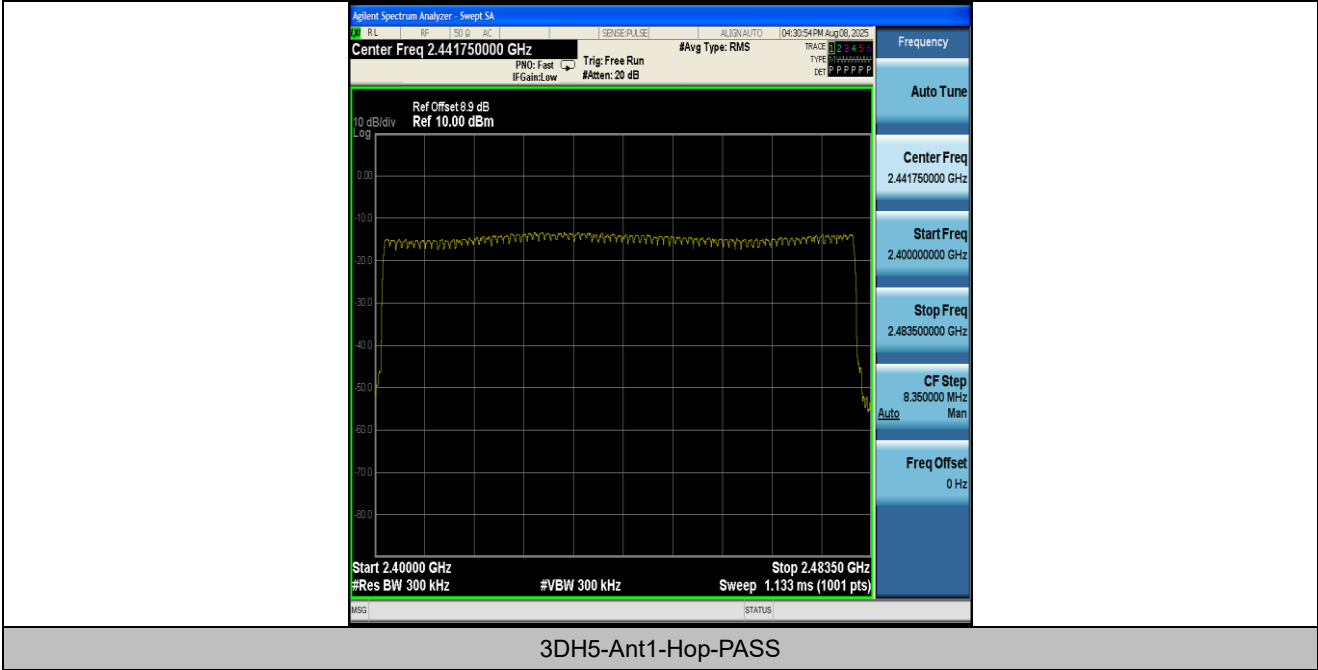
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

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

Test Graphs





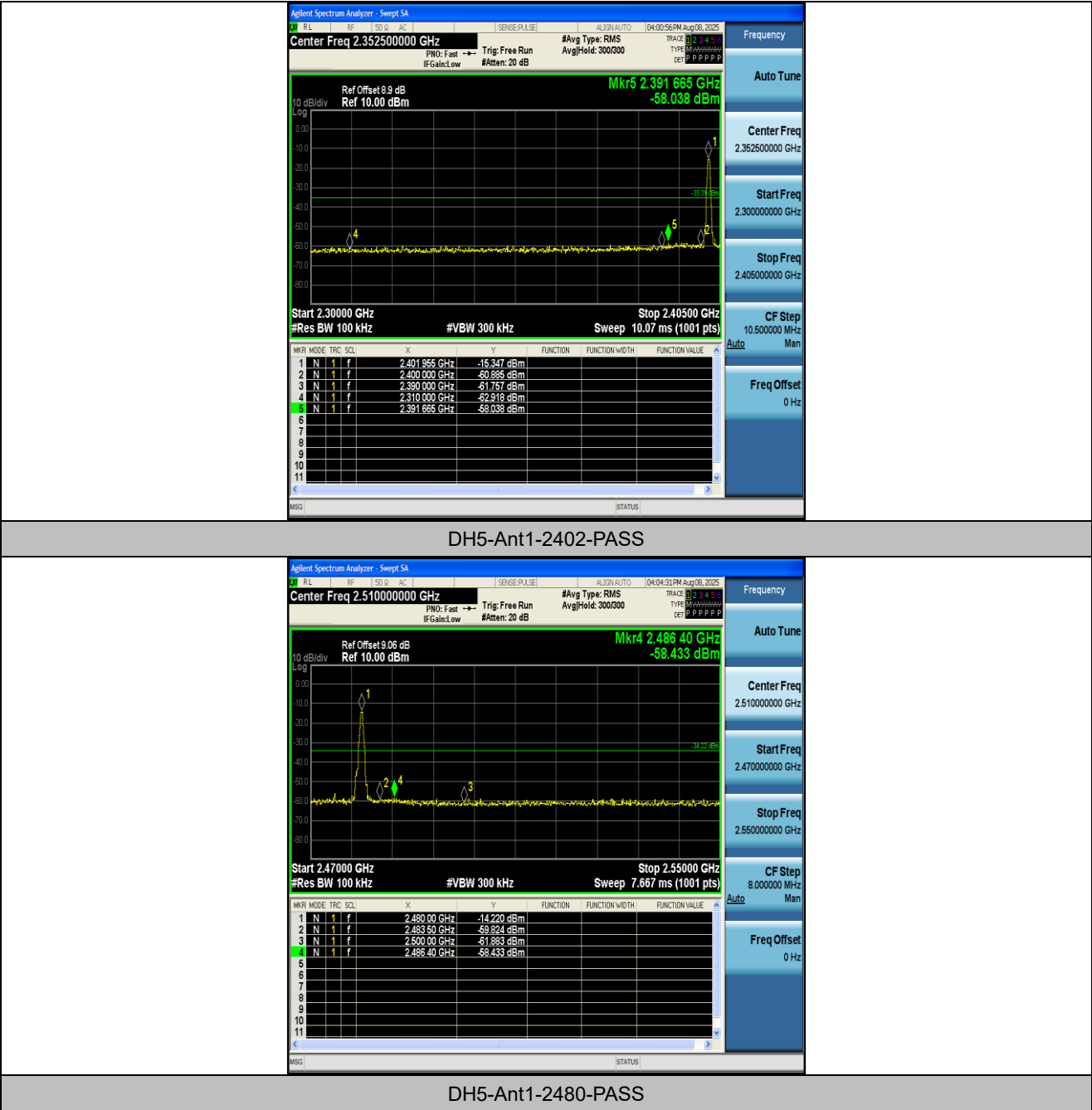
Appendix G: Band edge measurements

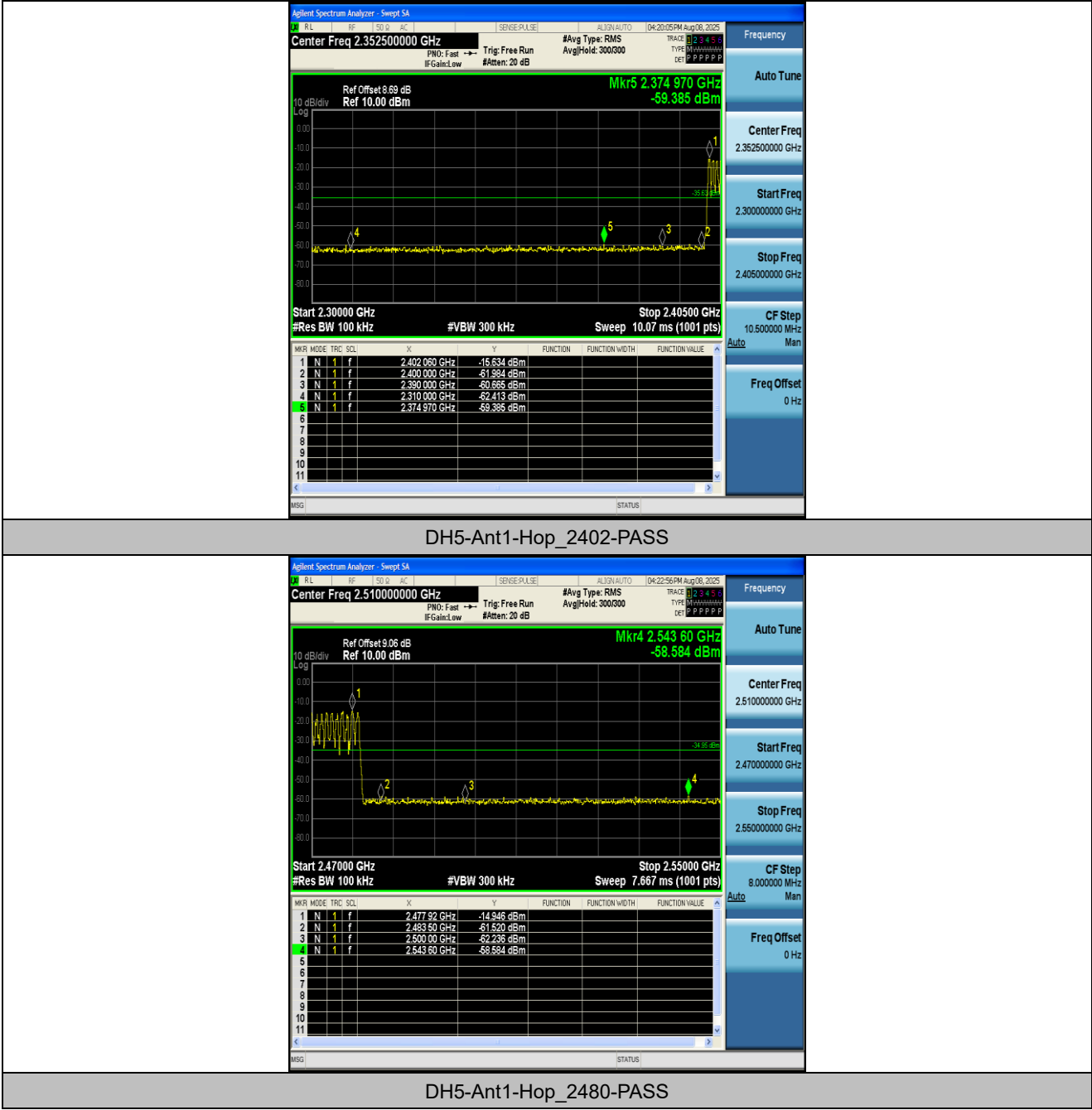
Test Result

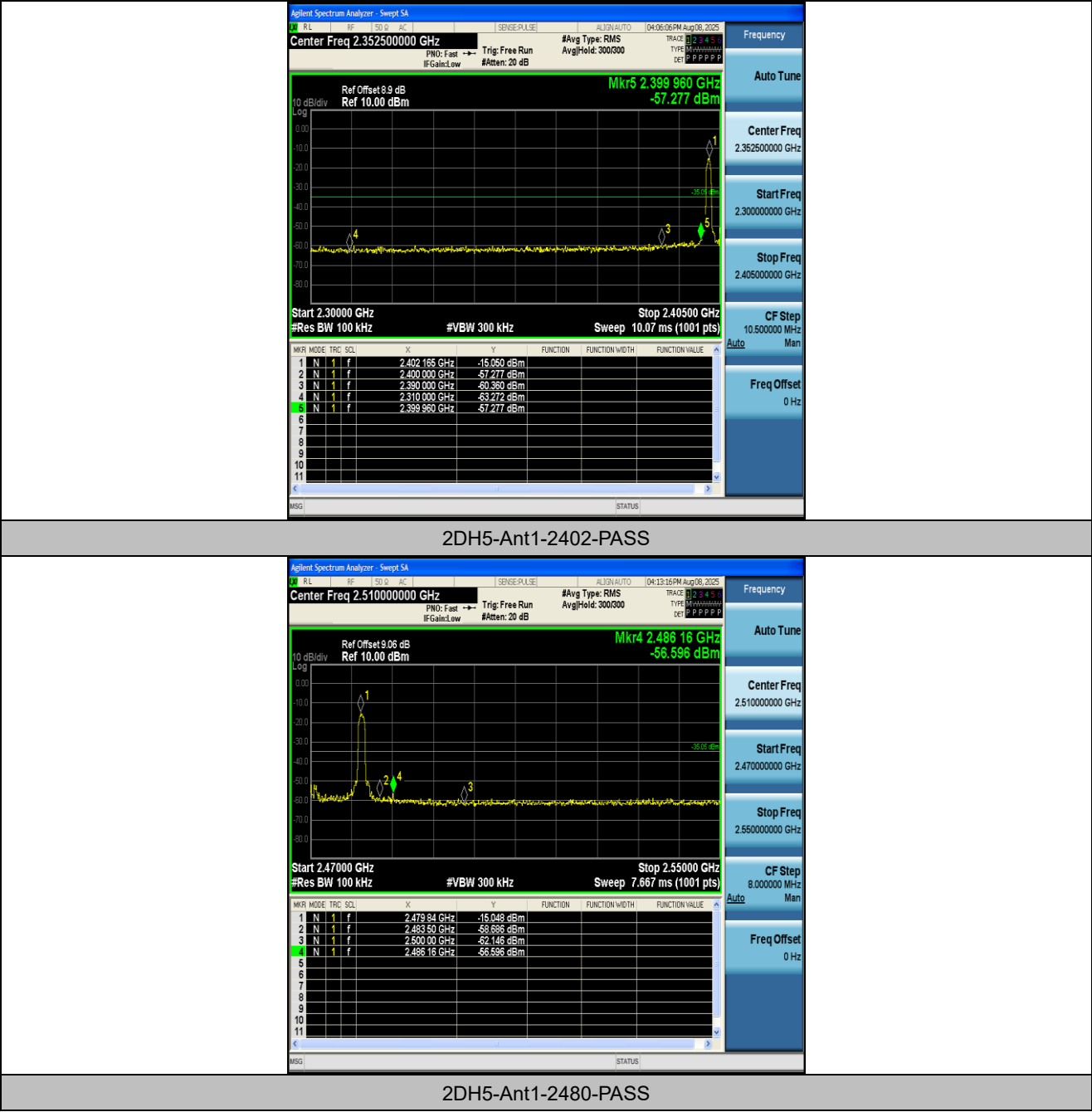
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-15.35	-58.04	≤-35.35	PASS
DH5	Ant1	High	2480	-14.22	-58.43	≤-34.22	PASS
DH5	Ant1	Low	Hop_2402	-15.63	-59.39	≤-35.63	PASS
DH5	Ant1	High	Hop_2480	-14.95	-58.58	≤-34.95	PASS
2DH5	Ant1	Low	2402	-15.05	-57.28	≤-35.05	PASS
2DH5	Ant1	High	2480	-15.05	-56.6	≤-35.05	PASS
2DH5	Ant1	Low	Hop_2402	-18.02	-58.88	≤-38.02	PASS
2DH5	Ant1	High	Hop_2480	-15.31	-58.12	≤-35.31	PASS
3DH5	Ant1	Low	2402	-15.08	-56.13	≤-35.08	PASS
3DH5	Ant1	High	2480	-14.03	-58.39	≤-34.03	PASS
3DH5	Ant1	Low	Hop_2402	-17.50	-56.99	≤-37.5	PASS
3DH5	Ant1	High	Hop_2480	-15.49	-58.5	≤-35.49	PASS

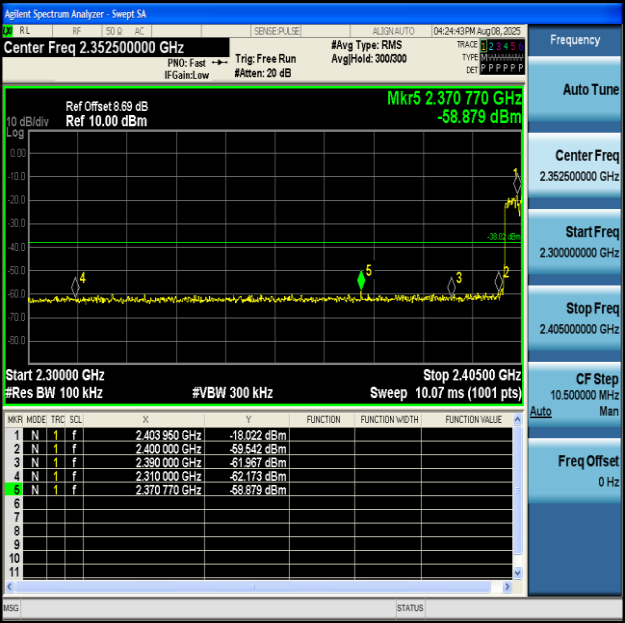
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

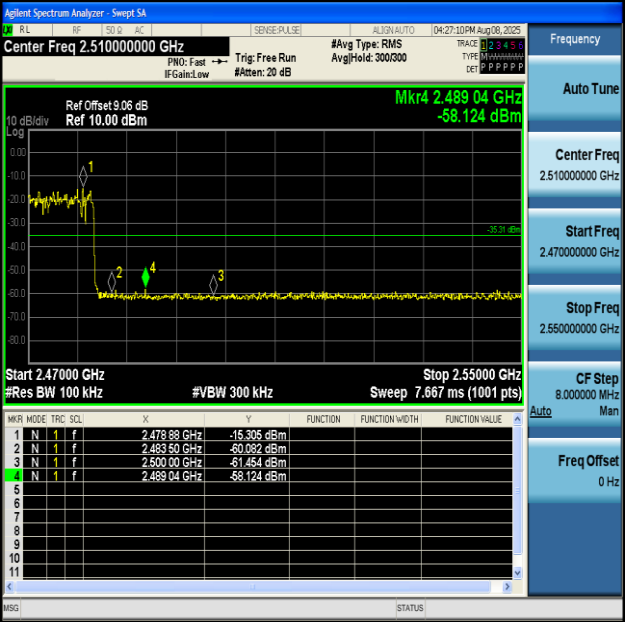




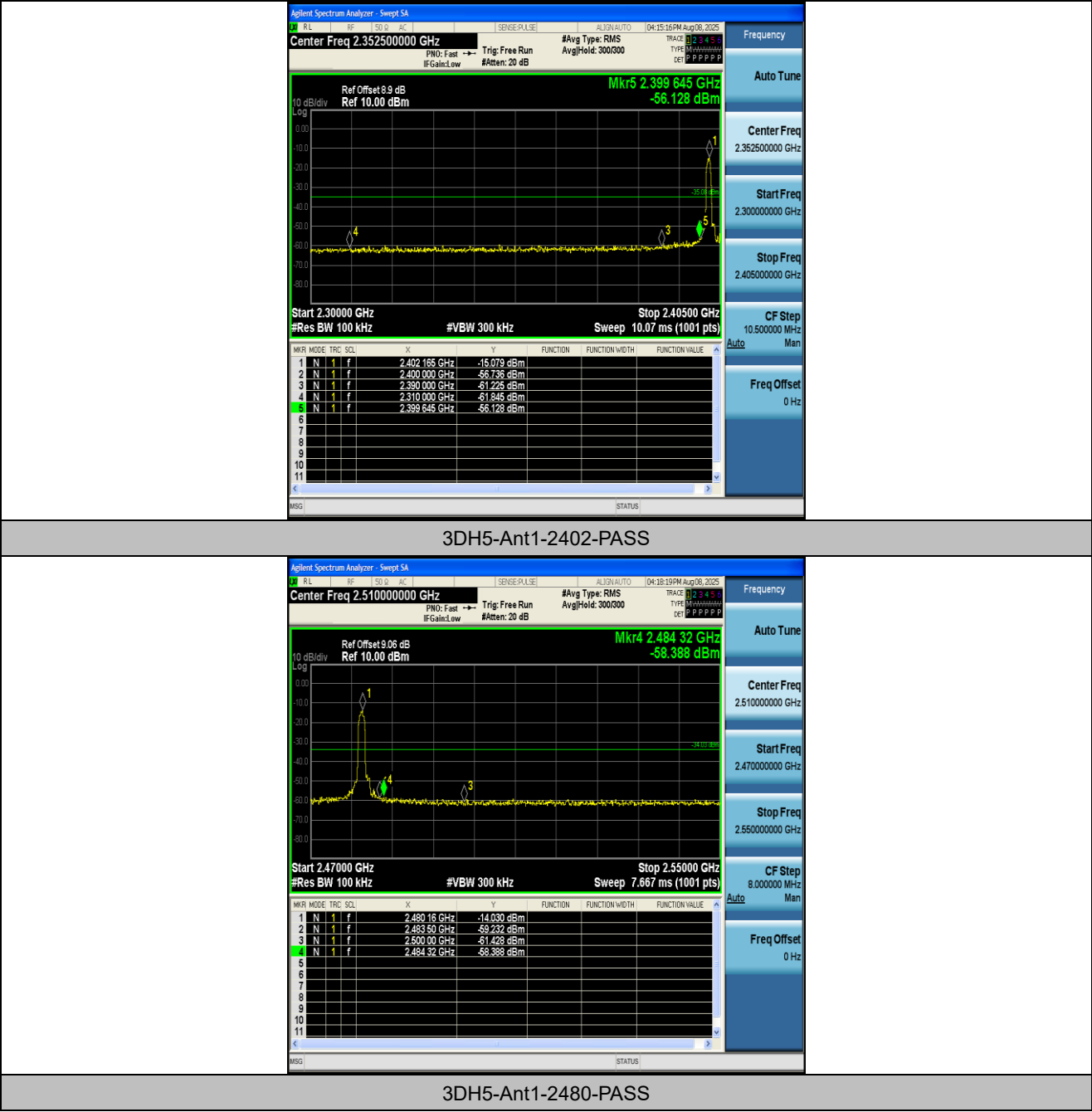


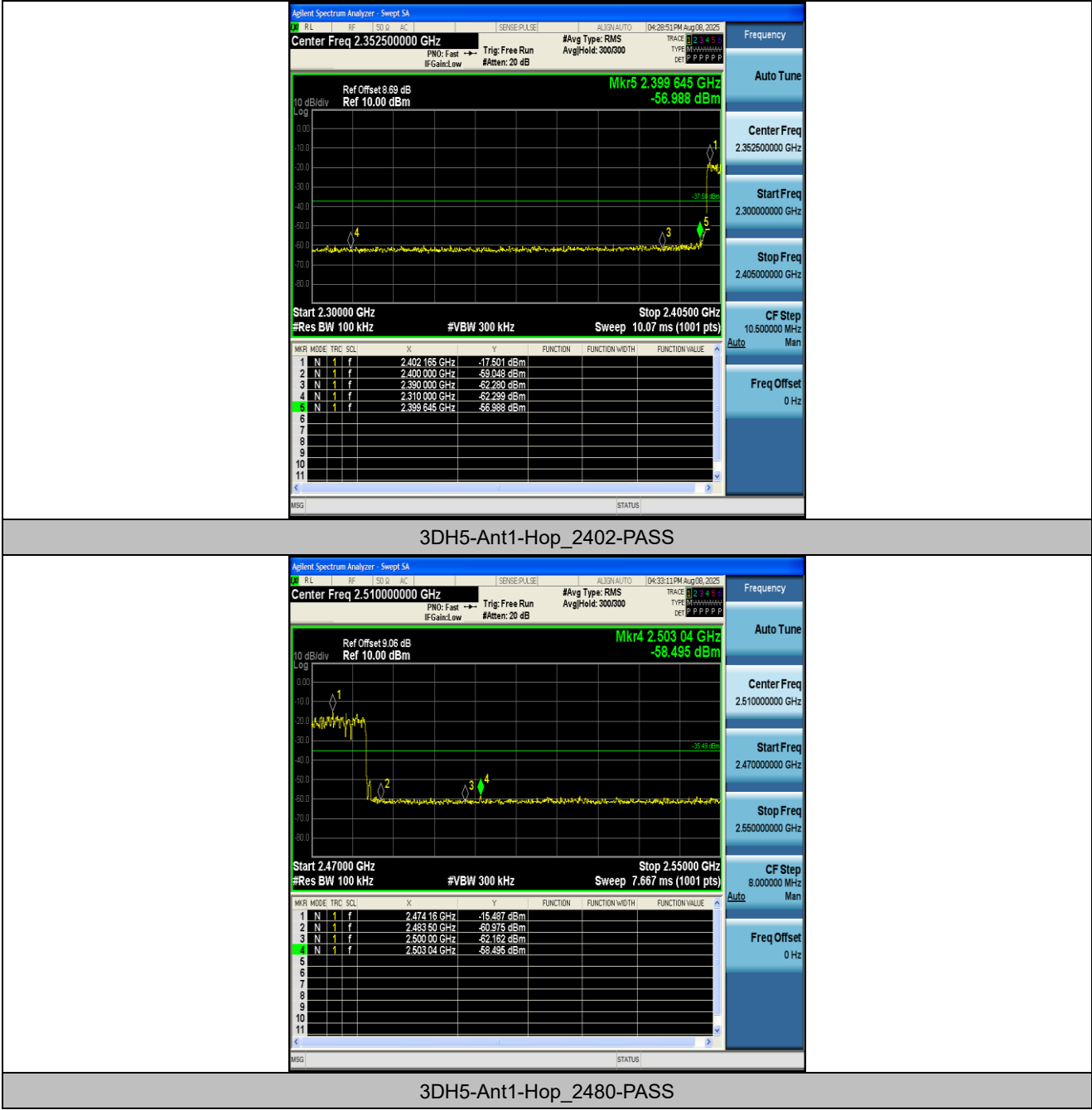


2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS





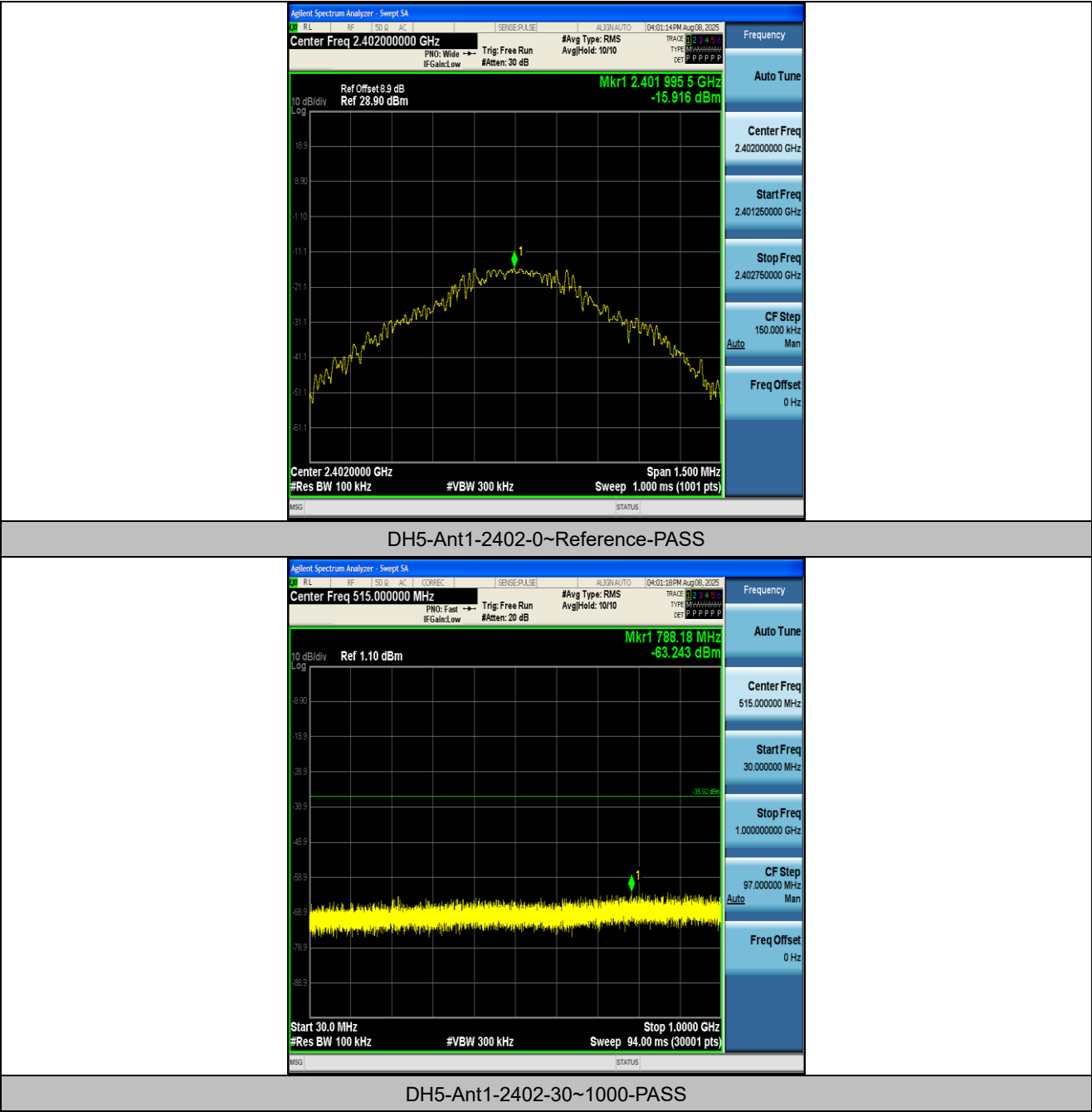
Appendix H: Conducted Spurious Emission

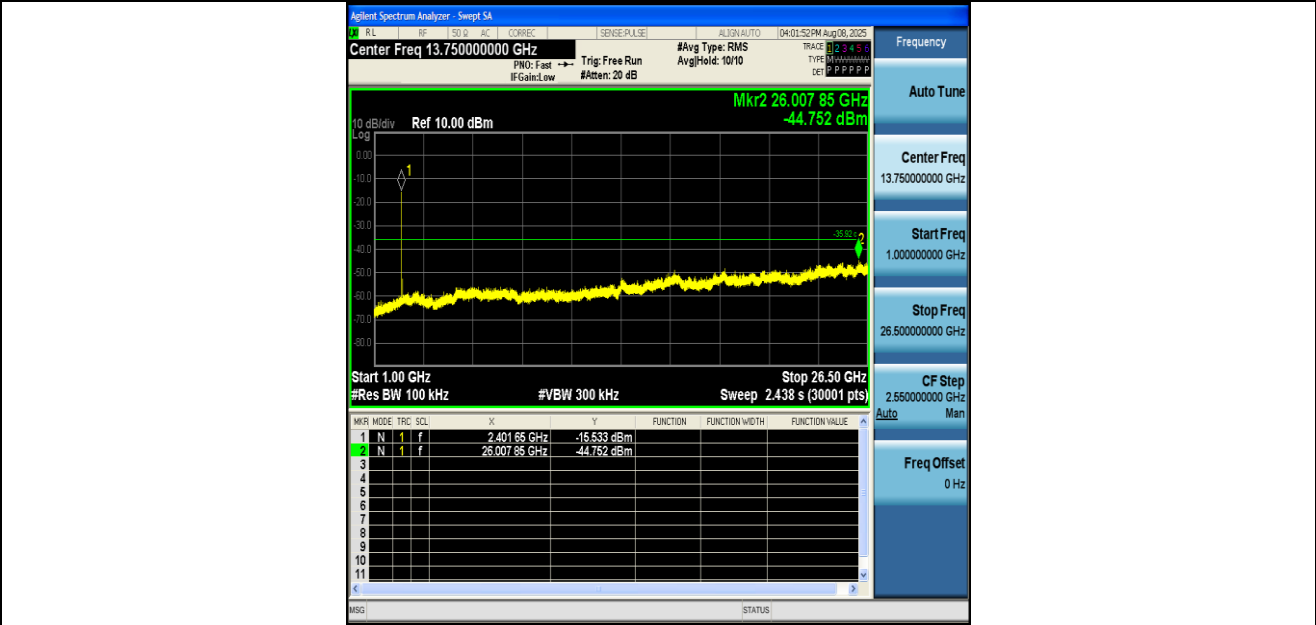
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-15.92	-15.92	---	PASS
DH5	Ant1	2402	30~1000	-15.92	-63.24	≤-35.92	PASS
DH5	Ant1	2402	1000~26500	-15.92	-44.75	≤-35.92	PASS
DH5	Ant1	2441	0~Reference	-14.60	-14.60	---	PASS
DH5	Ant1	2441	30~1000	-14.60	-63.28	≤-34.6	PASS
DH5	Ant1	2441	1000~26500	-14.60	-44.93	≤-34.6	PASS
DH5	Ant1	2480	0~Reference	-14.70	-14.70	---	PASS
DH5	Ant1	2480	30~1000	-14.70	-62.13	≤-34.7	PASS
DH5	Ant1	2480	1000~26500	-14.70	-45.16	≤-34.7	PASS
2DH5	Ant1	2402	0~Reference	-16.65	-16.65	---	PASS
2DH5	Ant1	2402	30~1000	-16.65	-62.85	≤-36.65	PASS
2DH5	Ant1	2402	1000~26500	-16.65	-45.61	≤-36.65	PASS
2DH5	Ant1	2441	0~Reference	-15.10	-15.10	---	PASS
2DH5	Ant1	2441	30~1000	-15.10	-62.22	≤-35.1	PASS
2DH5	Ant1	2441	1000~26500	-15.10	-45.75	≤-35.1	PASS
2DH5	Ant1	2480	0~Reference	-15.84	-15.84	---	PASS
2DH5	Ant1	2480	30~1000	-15.84	-62.58	≤-35.84	PASS
2DH5	Ant1	2480	1000~26500	-15.84	-45.43	≤-35.84	PASS
3DH5	Ant1	2402	0~Reference	-17.49	-17.49	---	PASS
3DH5	Ant1	2402	30~1000	-17.49	-61.59	≤-37.49	PASS
3DH5	Ant1	2402	1000~26500	-17.49	-44.92	≤-37.49	PASS
3DH5	Ant1	2441	0~Reference	-15.80	-15.80	---	PASS
3DH5	Ant1	2441	30~1000	-15.80	-62.07	≤-35.8	PASS
3DH5	Ant1	2441	1000~26500	-15.80	-45.91	≤-35.8	PASS
3DH5	Ant1	2480	0~Reference	-16.26	-16.26	---	PASS
3DH5	Ant1	2480	30~1000	-16.26	-63.08	≤-36.26	PASS
3DH5	Ant1	2480	1000~26500	-16.26	-45.52	≤-36.26	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

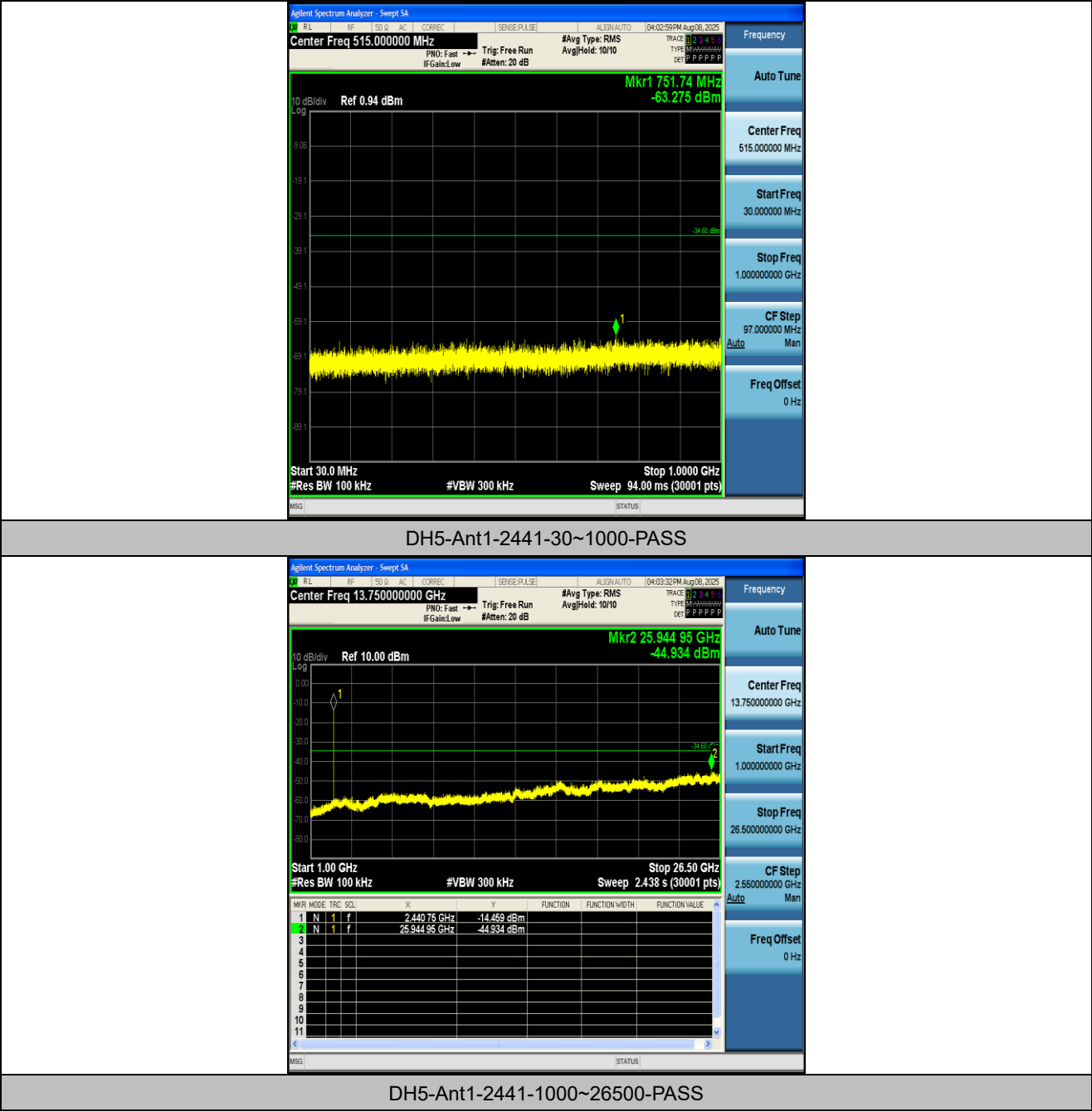


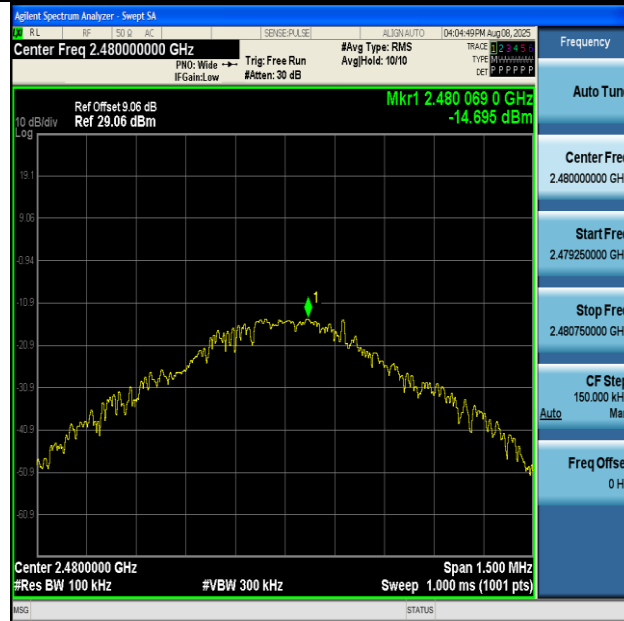


DH5-Ant1-2402-1000~26500-PASS

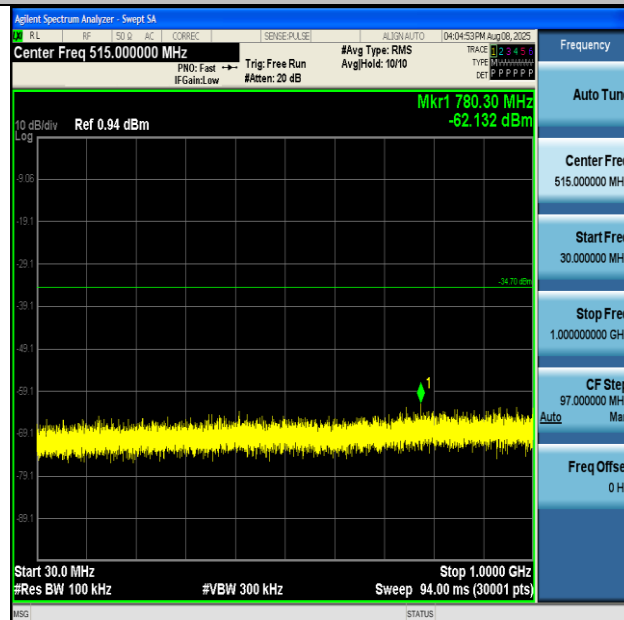


DH5-Ant1-2441-0~Reference-PASS



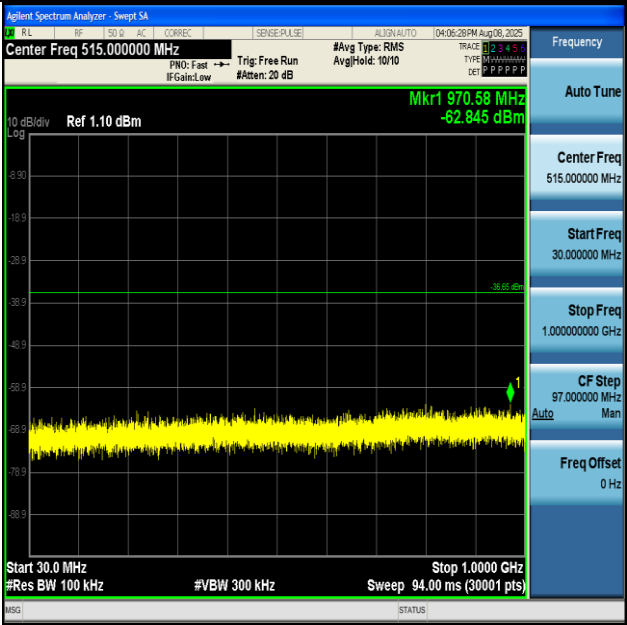


DH5-Ant1-2480-0~Reference-PASS

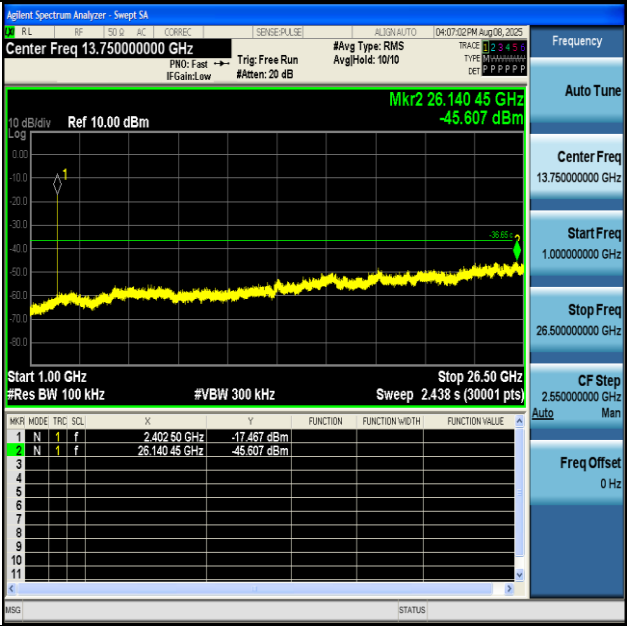


DH5-Ant1-2480-30~1000-PASS

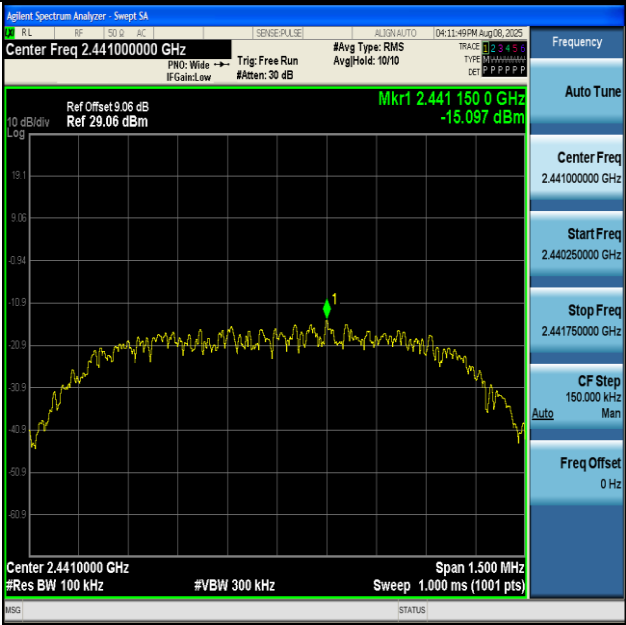




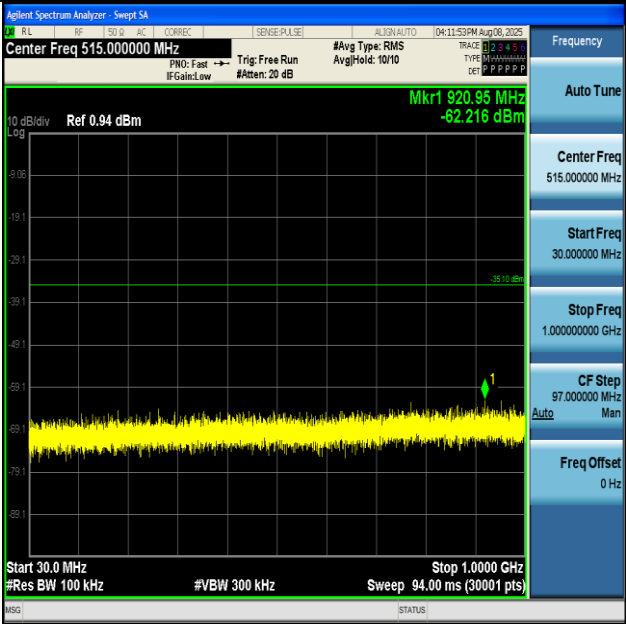
2DH5-Ant1-2402-30~1000-PASS



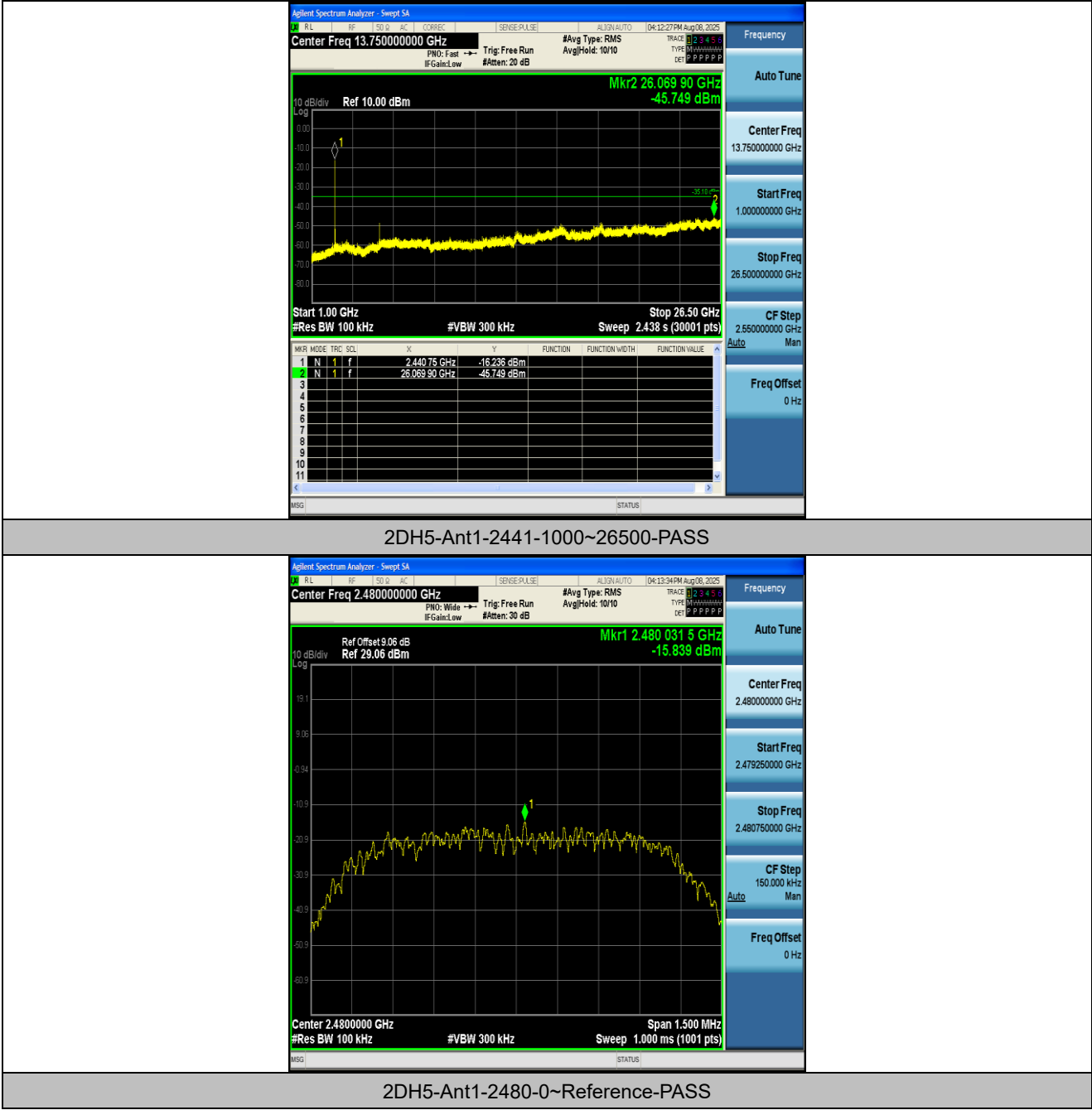
2DH5-Ant1-2402-1000~26500-PASS

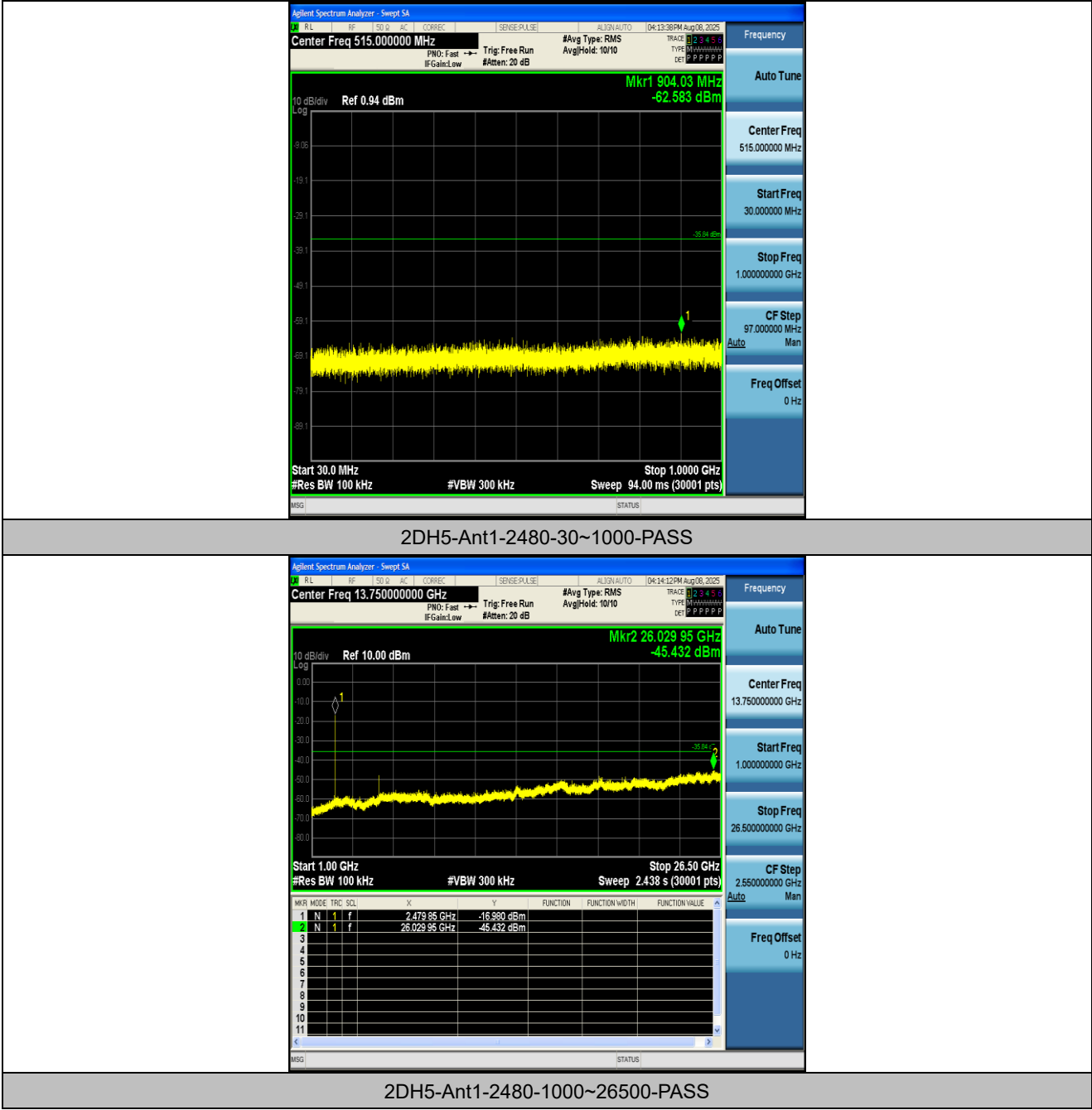


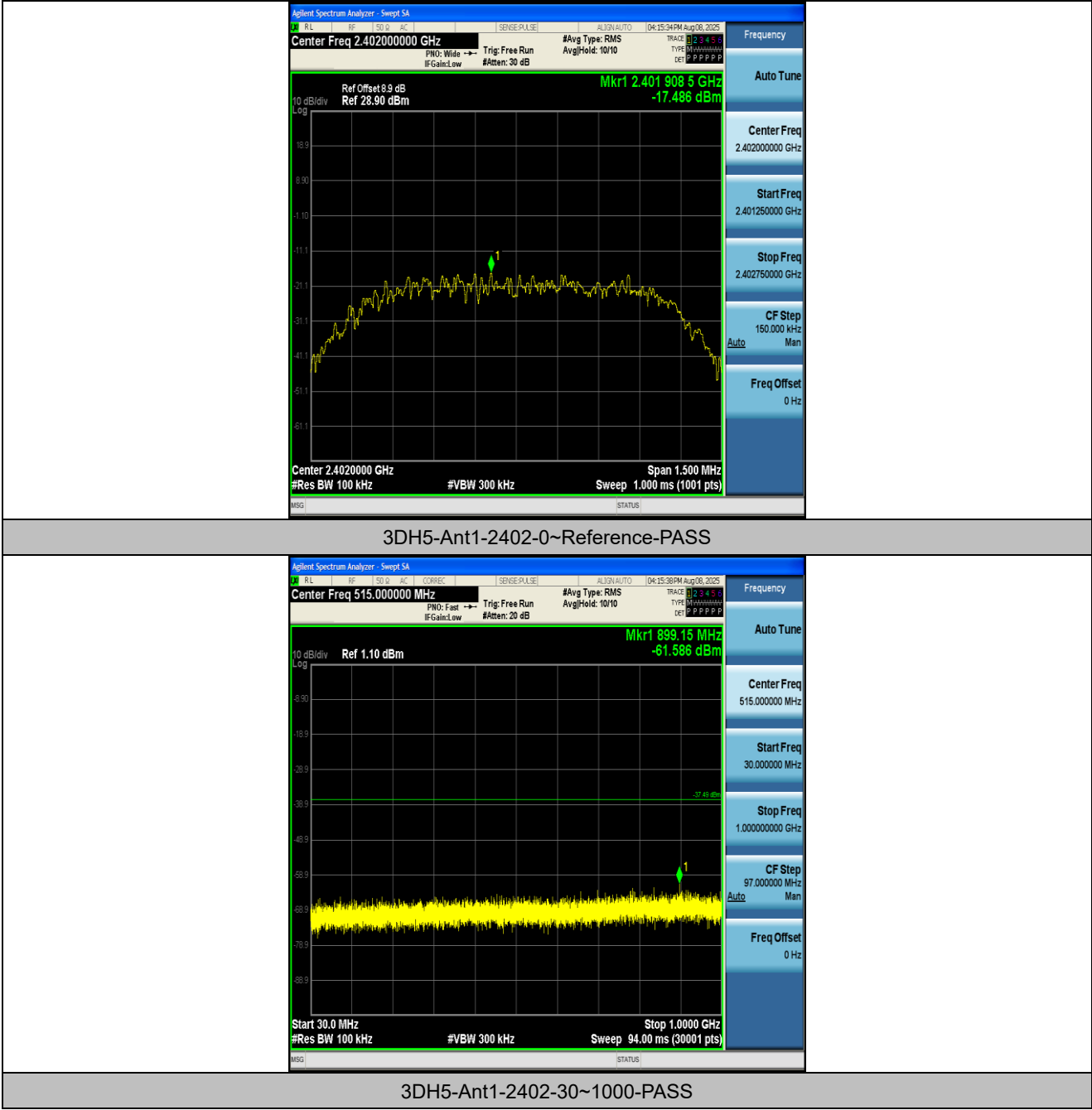
2DH5-Ant1-2441-0~Reference-PASS

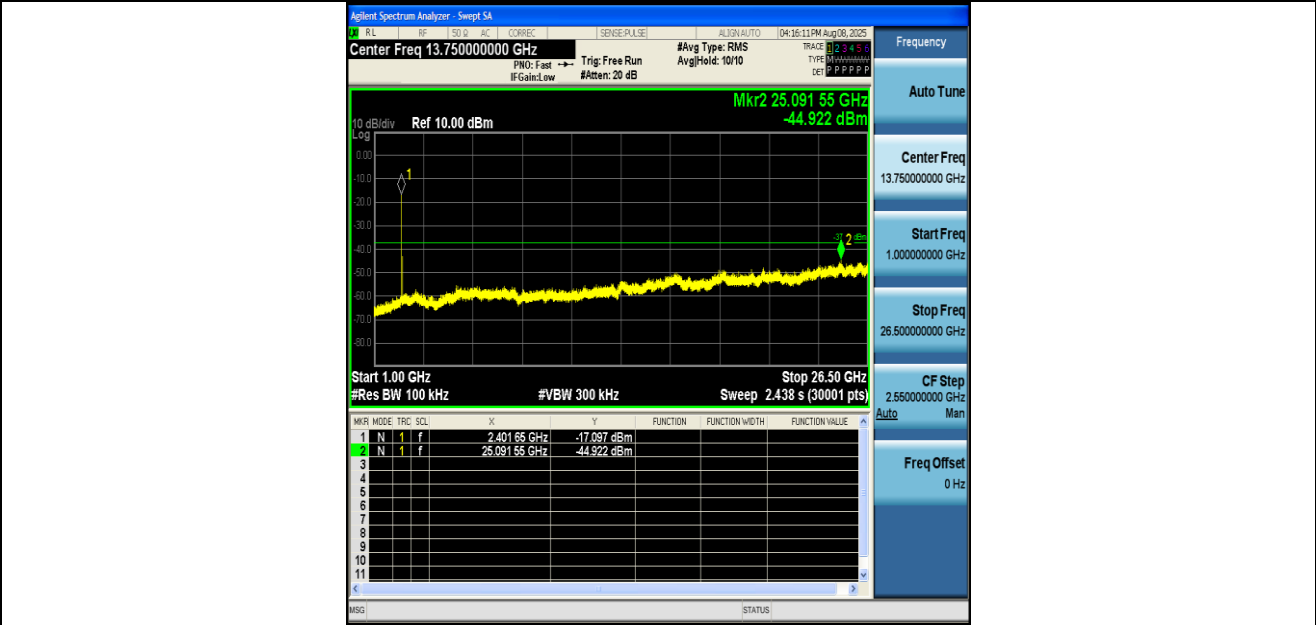


2DH5-Ant1-2441-30~1000-PASS





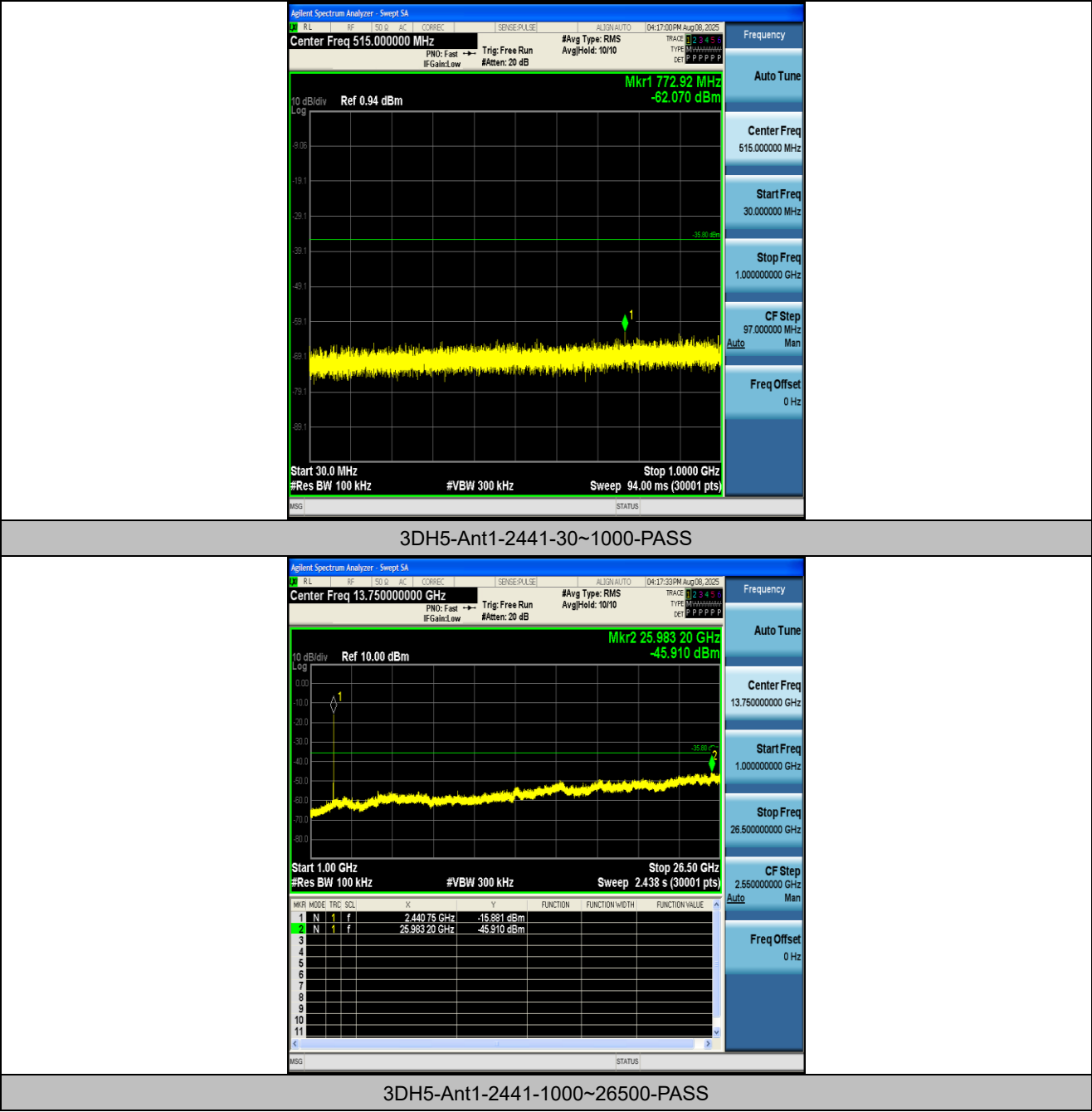


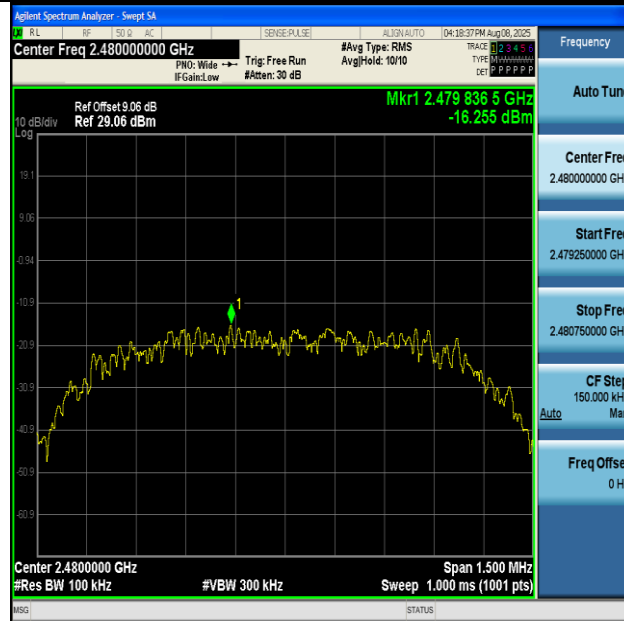


3DH5-Ant1-2402-1000~26500-PASS

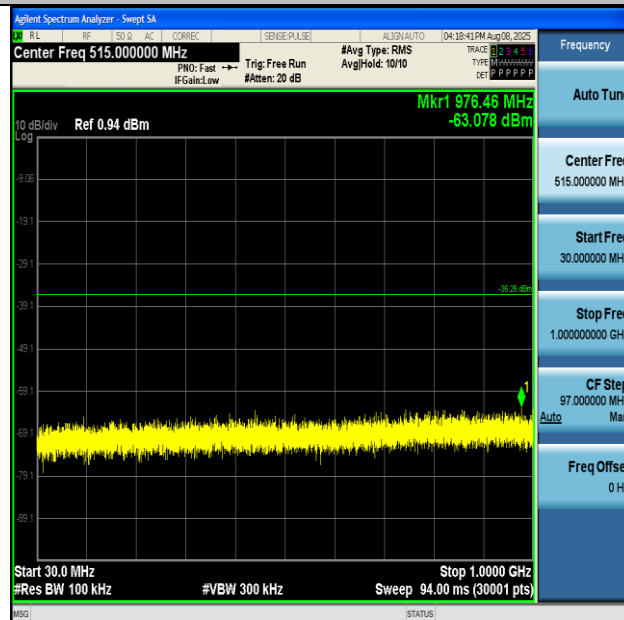


3DH5-Ant1-2441-0~Reference-PASS

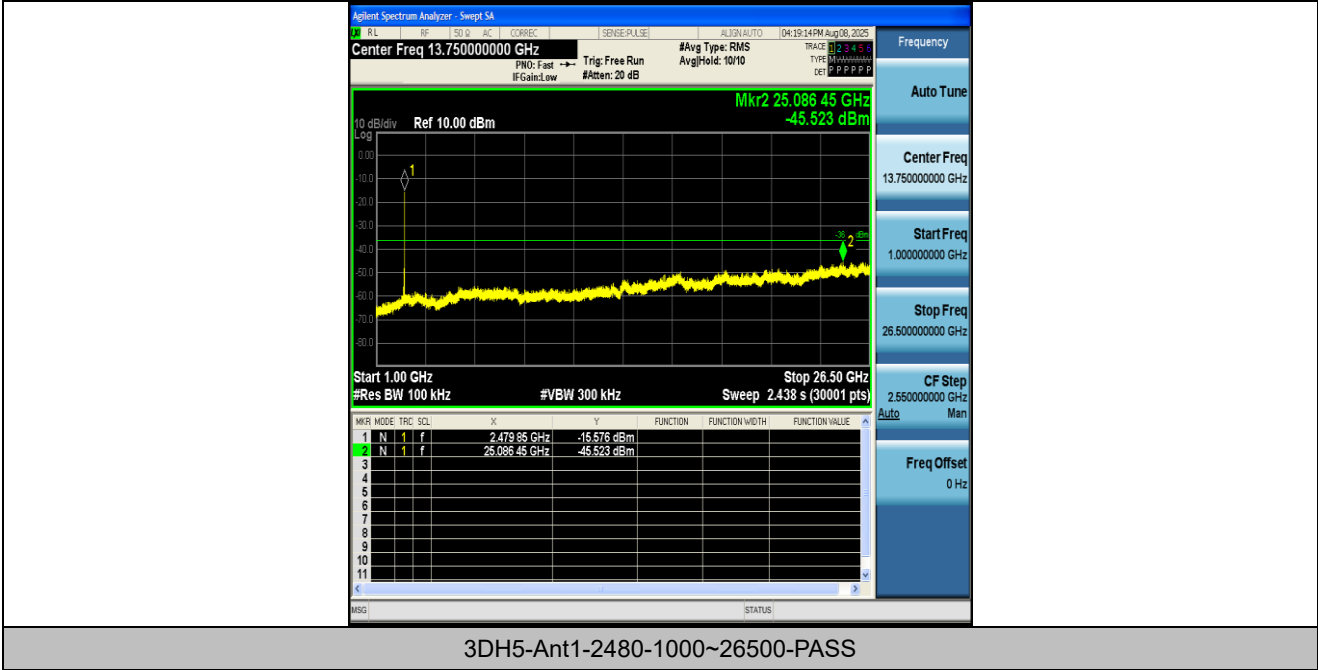




3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS



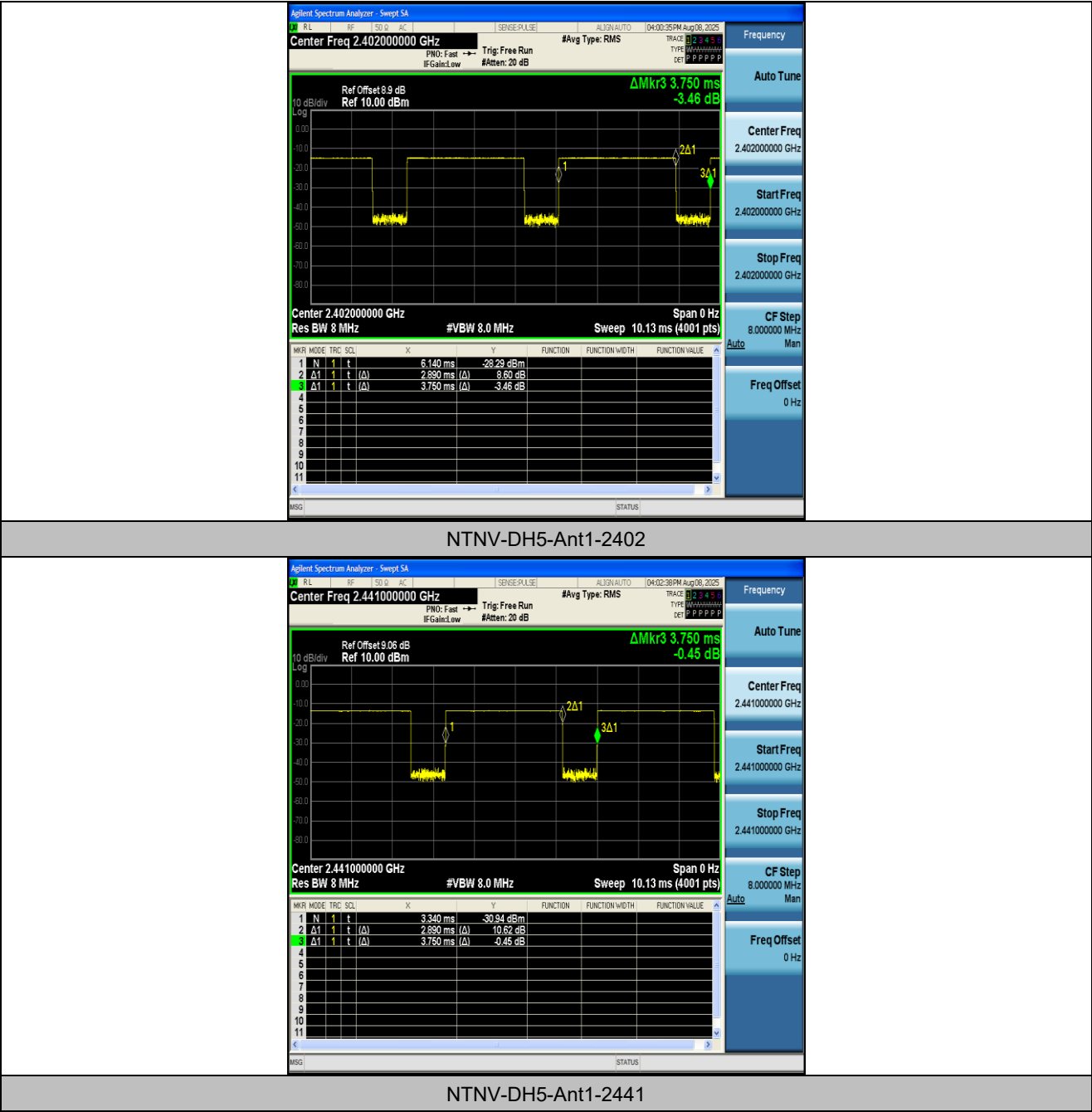
Appendix I: Duty Cycle

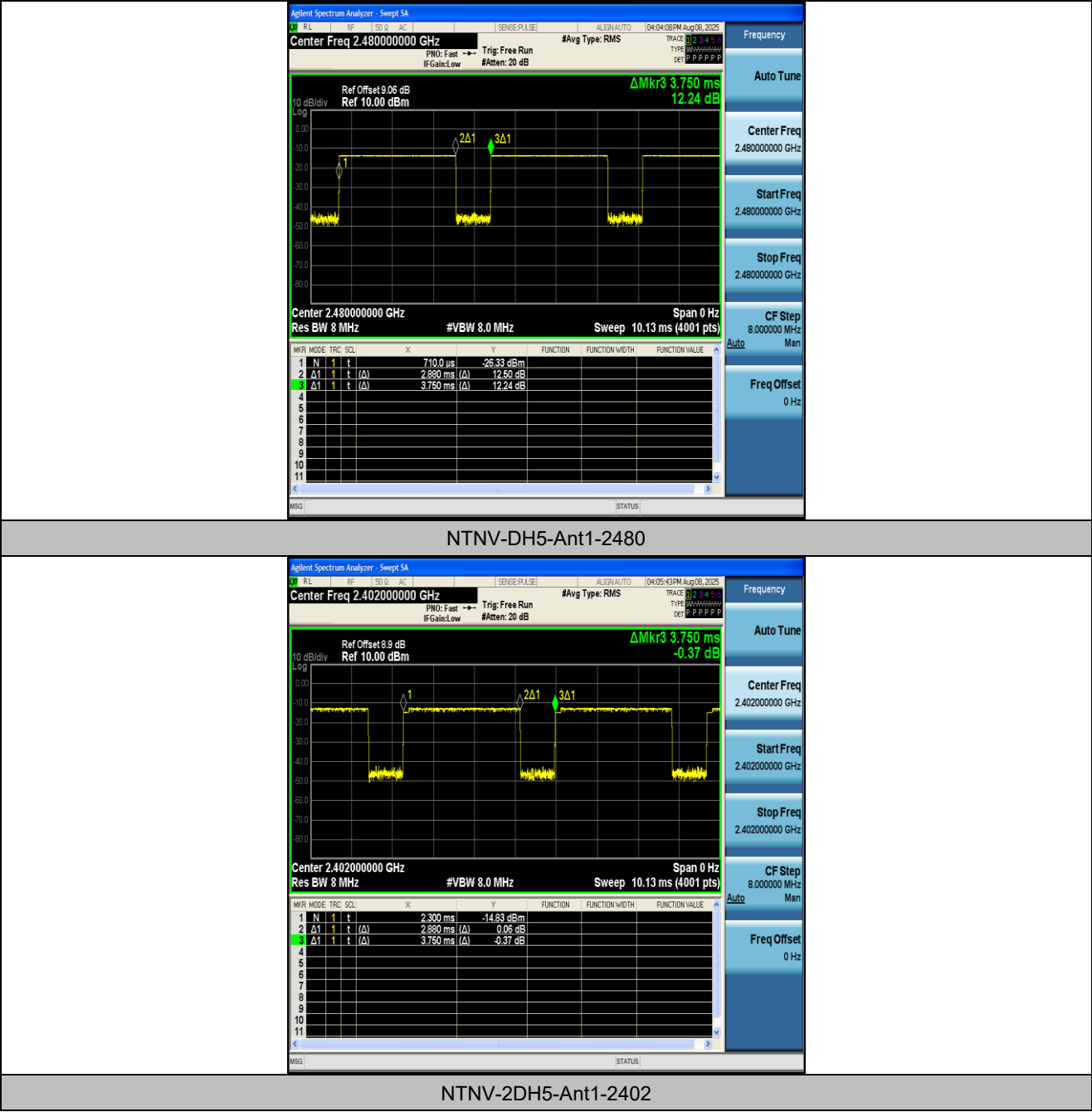
Test Result

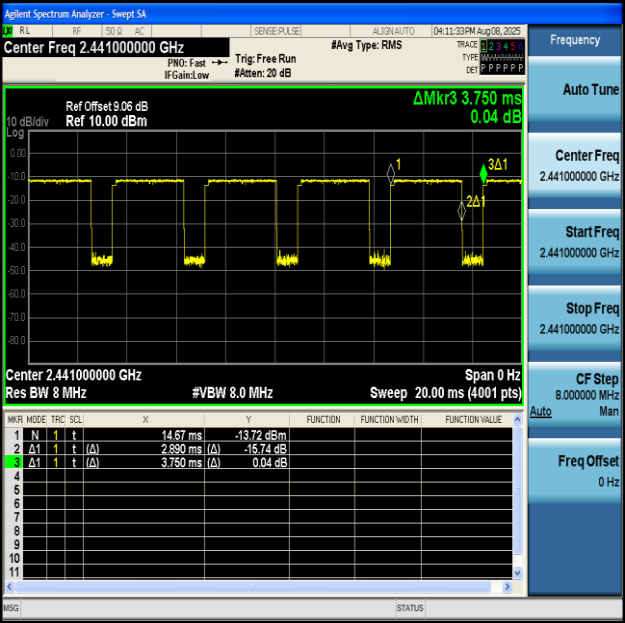
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.89	3.75	77.07	1.13
3DH5	Ant1	2402	2.88	3.75	76.80	1.15
3DH5	Ant1	2441	2.89	3.75	77.07	1.13
3DH5	Ant1	2480	2.88	3.75	76.80	1.15

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

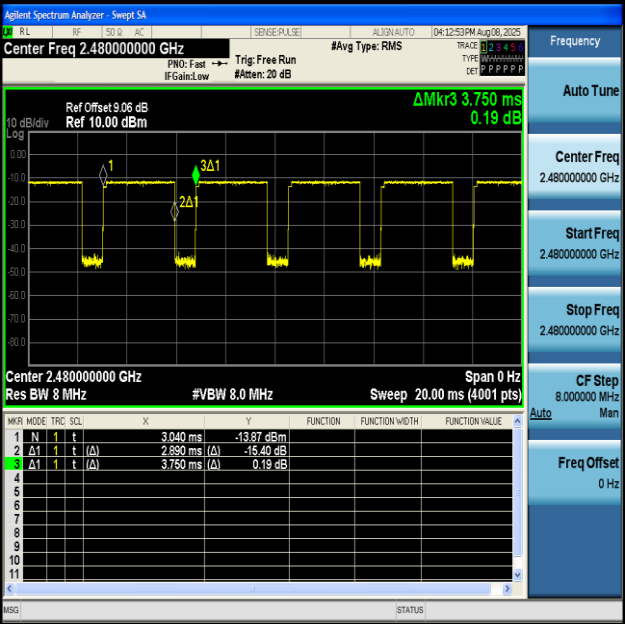
Test Graphs



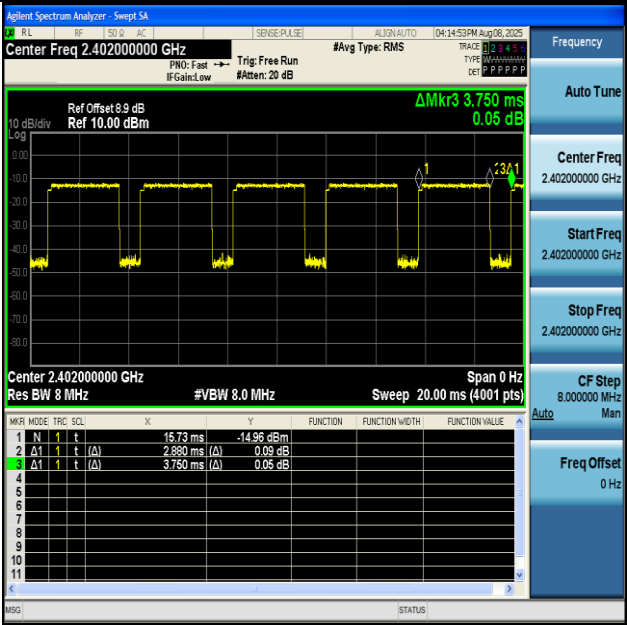




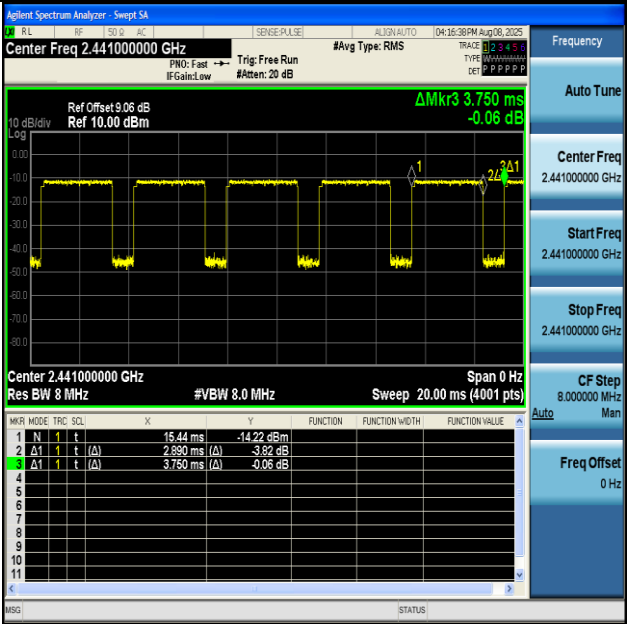
NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441

