

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

Product Name: Smart Glasses

Trade Mark: /

Test Model: M03062AA00-US

FCC ID: 2BCEH-M03062

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

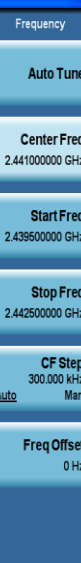
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.954	2401.517	2402.471	---	---
DH5	Ant1	2441	0.951	2440.514	2441.465	---	---
DH5	Ant1	2480	0.957	2479.514	2480.471	---	---
2DH5	Ant1	2402	1.281	2401.349	2402.630	---	---
2DH5	Ant1	2441	1.332	2440.310	2441.642	---	---
2DH5	Ant1	2480	1.326	2479.313	2480.639	---	---
3DH5	Ant1	2402	1.296	2401.334	2402.630	---	---
3DH5	Ant1	2441	1.257	2440.349	2441.606	---	---
3DH5	Ant1	2480	1.287	2479.346	2480.633	---	---

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

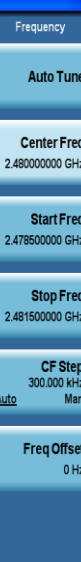
Test Graphs



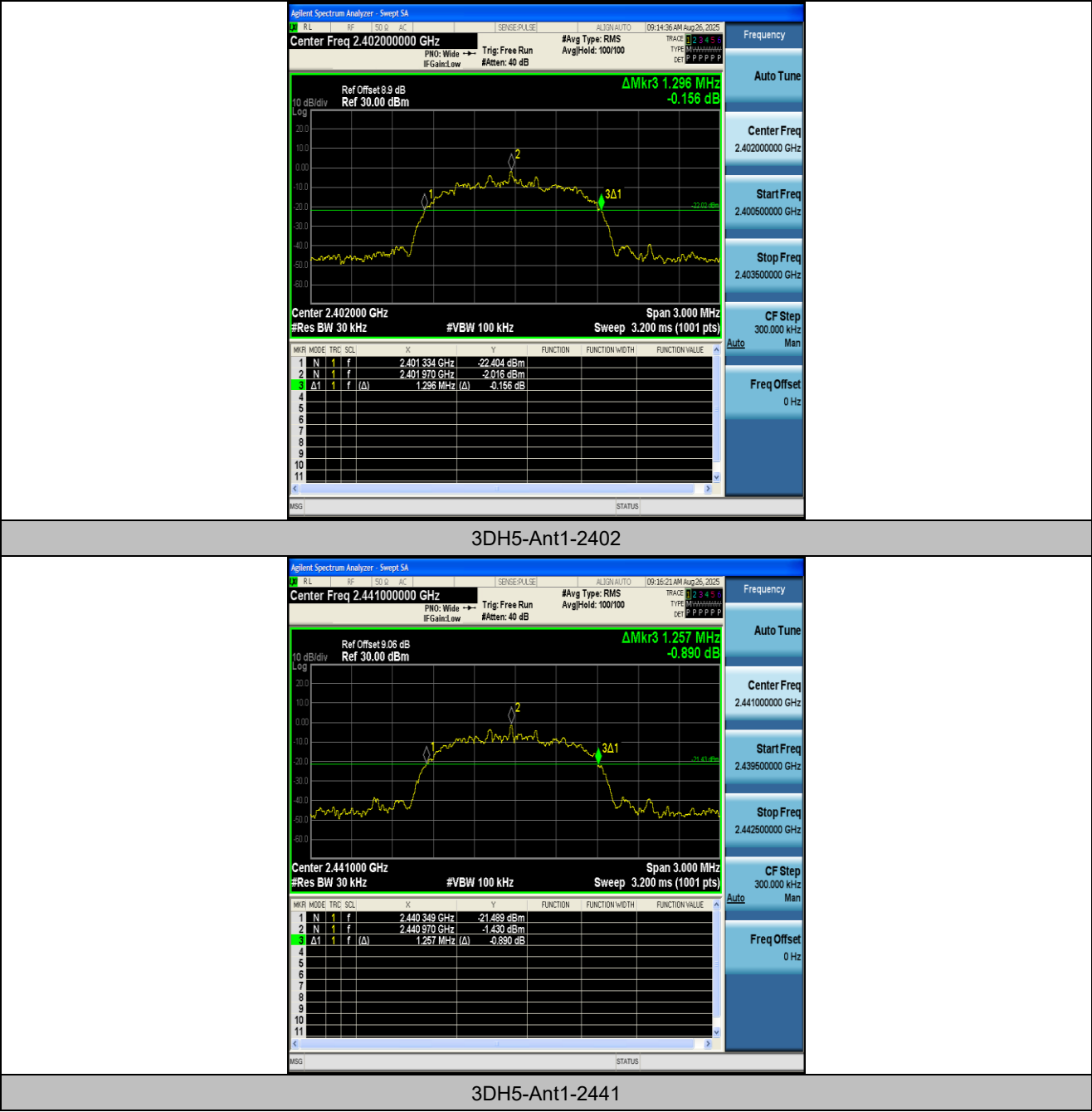




2DH5-Ant1-2441



2DH5-Ant1-2480





Appendix B: Occupied Channel Bandwidth

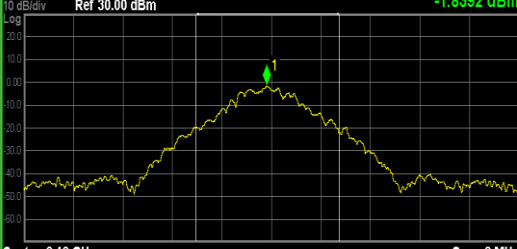
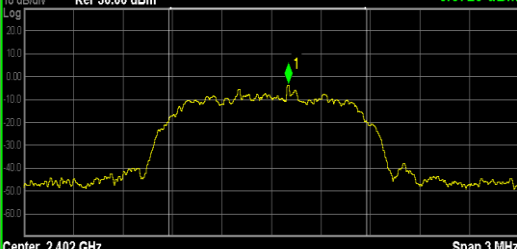
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.85993	2401.5476	2402.4076	---	---
DH5	Ant1	2441	0.86707	2440.5434	2441.4105	---	---
DH5	Ant1	2480	0.86680	2479.5439	2480.4107	---	---
2DH5	Ant1	2402	1.1904	2401.3846	2402.5750	---	---
2DH5	Ant1	2441	1.1588	2440.4010	2441.5598	---	---
2DH5	Ant1	2480	1.1891	2479.3829	2480.5720	---	---
3DH5	Ant1	2402	1.1760	2401.3975	2402.5735	---	---
3DH5	Ant1	2441	1.1874	2440.3905	2441.5779	---	---
3DH5	Ant1	2480	1.1825	2479.3975	2480.5800	---	---

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

Test Graphs



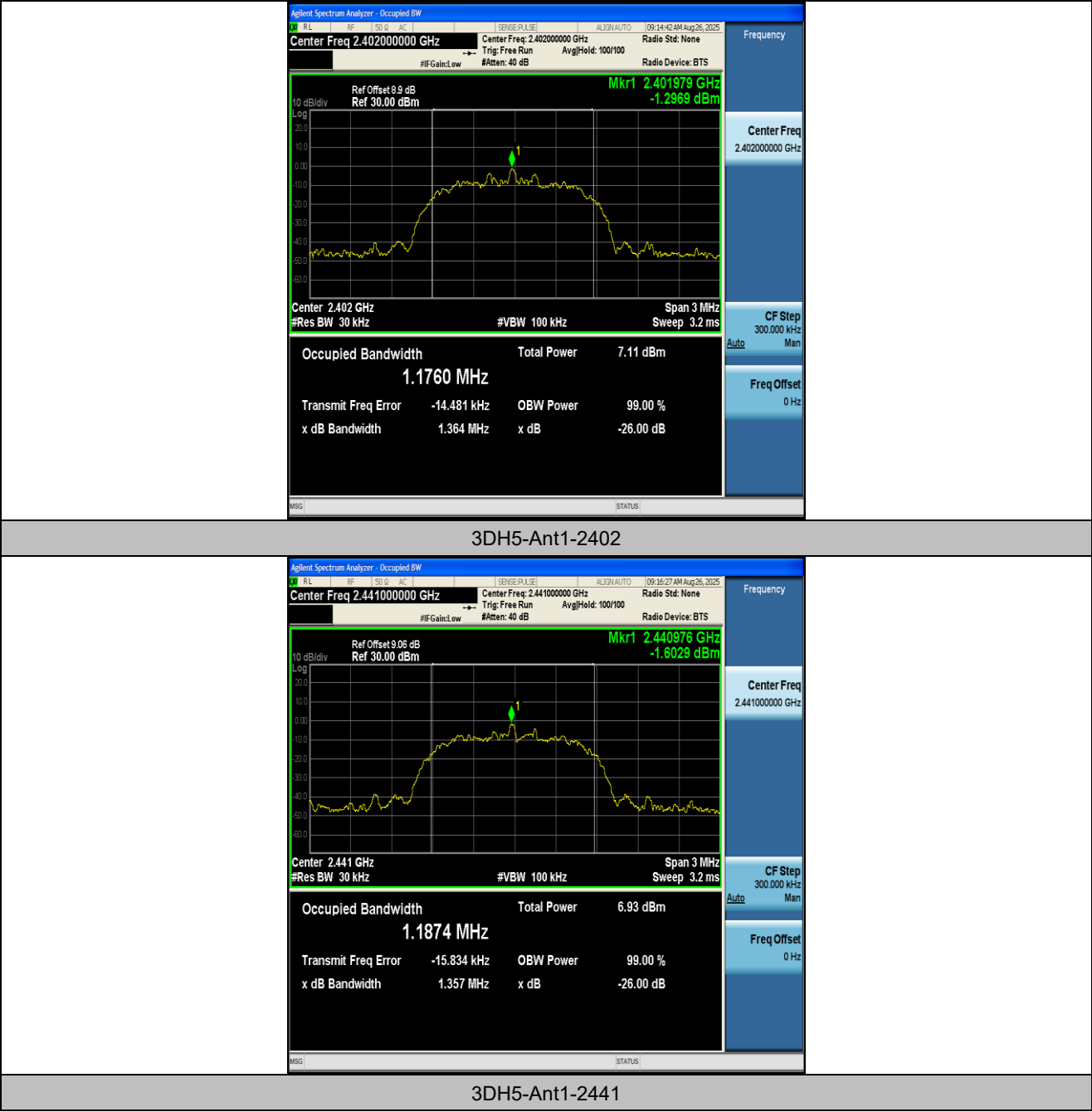
	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.480000000 GHz Center Freq: 2.480000000 GHz Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 9.06 dB Ref 30.00 dBm Mkr1 2.47997 GHz -1.8392 dBm  Center 2.48 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz Sweep 3.2 ms Occupied Bandwidth 866.80 kHz Total Power 7.20 dBm Transmit Freq Error -22.678 kHz OBW Power 99.00 % x dB Bandwidth 1.146 MHz x dB -26.00 dB Frequency Center Freq 2.480000000 GHz CF Step 300.000 kHz Auto Man Freq Offset 0 Hz MSG STATUS	
DH5-Ant1-2480		
	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 8.9 dB Ref 30.00 dBm Mkr1 2.402102 GHz -3.6720 dBm  Center 2.402 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz Sweep 3.2 ms Occupied Bandwidth 1.1904 MHz Total Power 5.89 dBm Transmit Freq Error -20.182 kHz OBW Power 99.00 % x dB Bandwidth 1.383 MHz x dB -26.00 dB Frequency Center Freq 2.402000000 GHz CF Step 300.000 kHz Auto Man Freq Offset 0 Hz MSG STATUS	
2DH5-Ant1-2402		

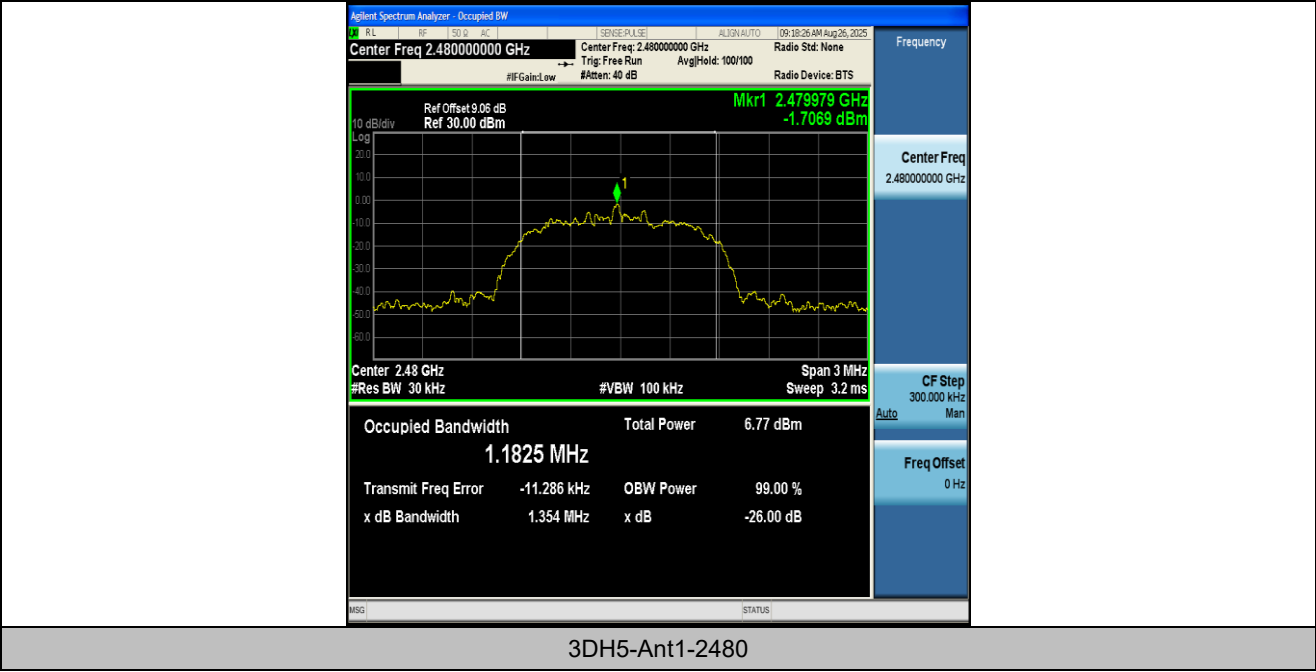


2DH5-Ant1-2441



2DH5-Ant1-2480





3DH5-Ant1-2480

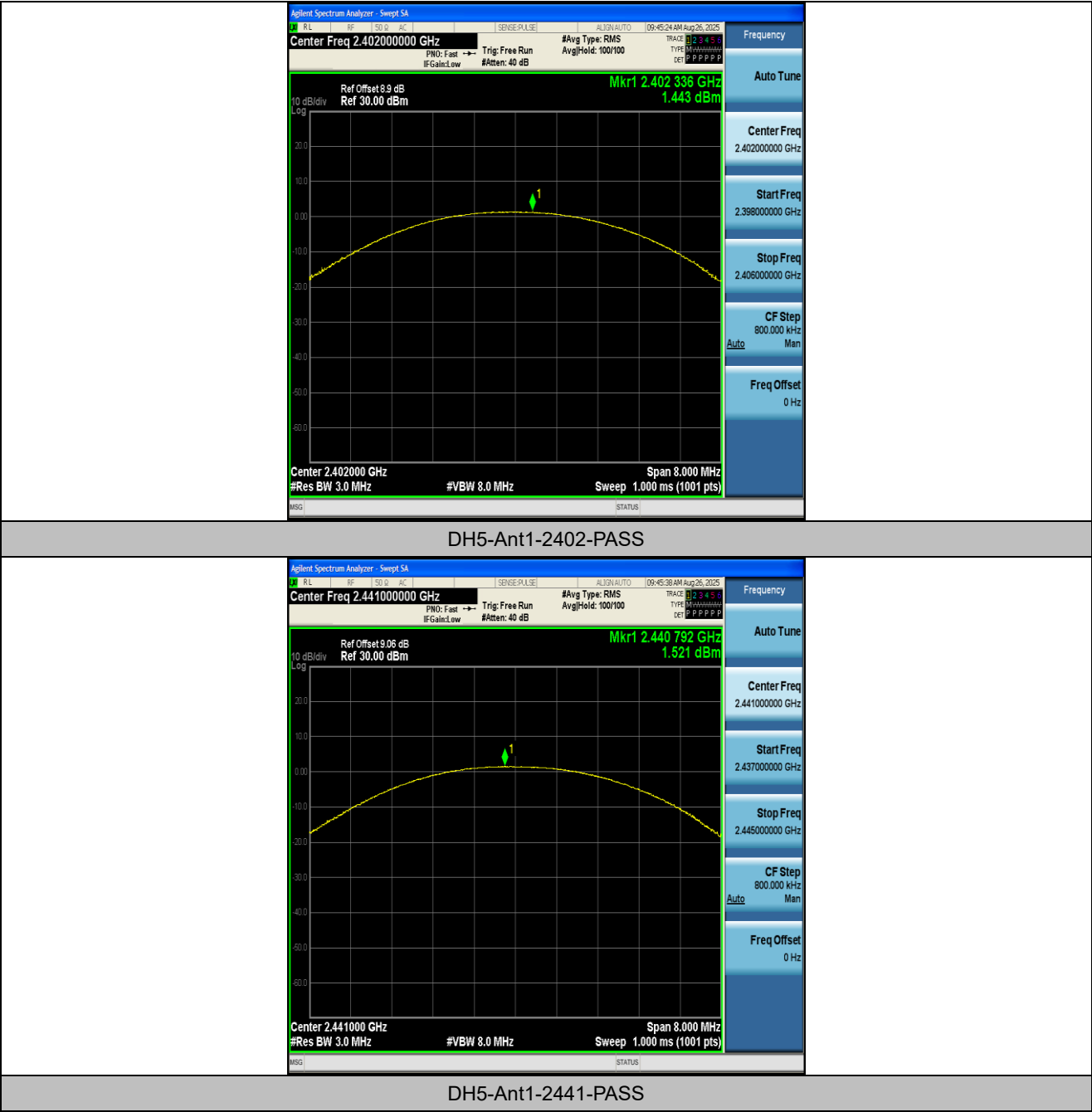
Appendix C: Maximum peak conducted output power

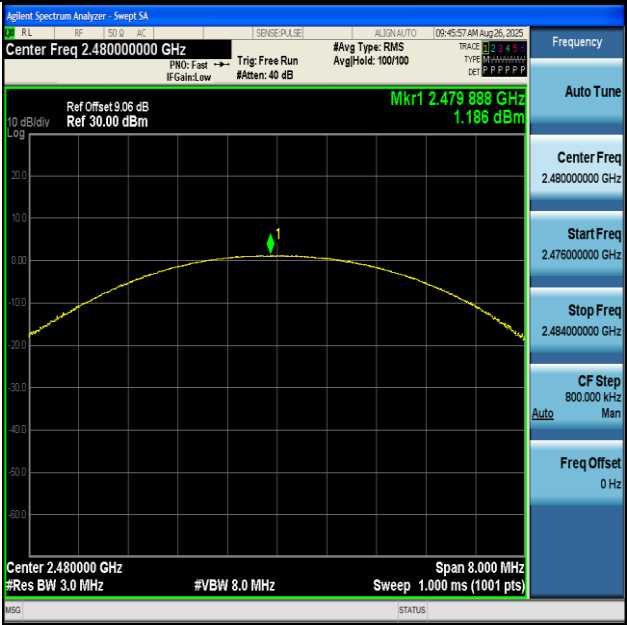
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	1.44	≤30	PASS
DH5	Ant1	2441	1.52	≤30	PASS
DH5	Ant1	2480	1.19	≤30	PASS
2DH5	Ant1	2402	2.10	≤20.97	PASS
2DH5	Ant1	2441	2.19	≤20.97	PASS
2DH5	Ant1	2480	1.89	≤20.97	PASS
3DH5	Ant1	2402	2.51	≤20.97	PASS
3DH5	Ant1	2441	2.66	≤20.97	PASS
3DH5	Ant1	2480	2.35	≤20.97	PASS

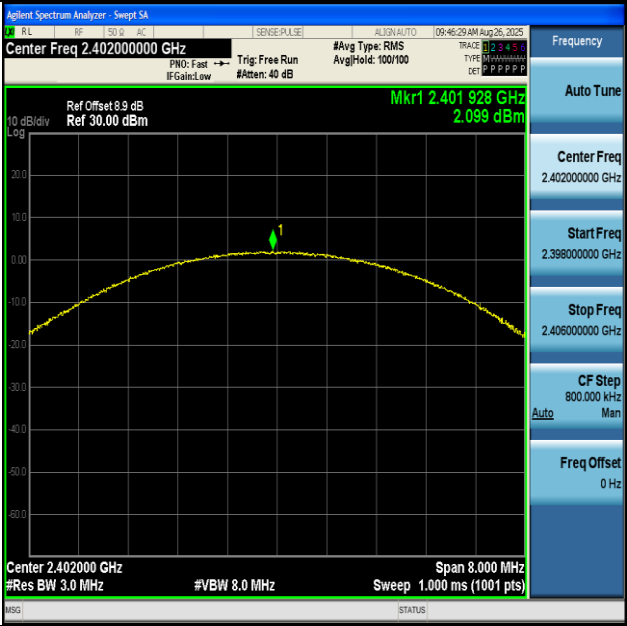
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

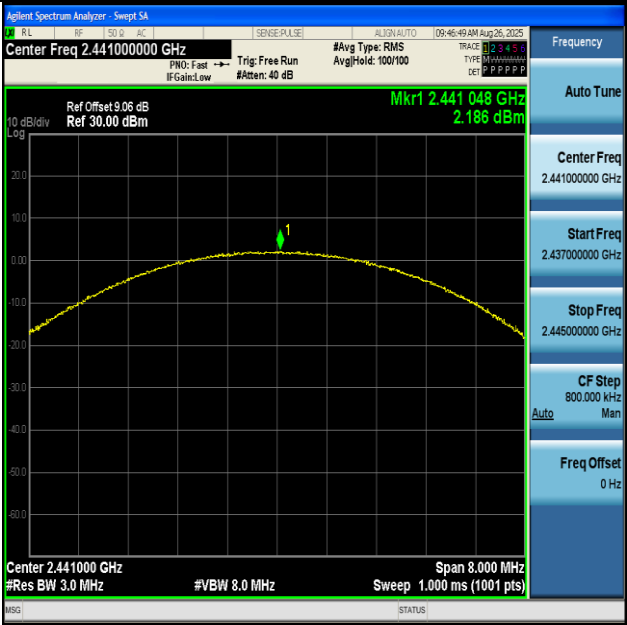




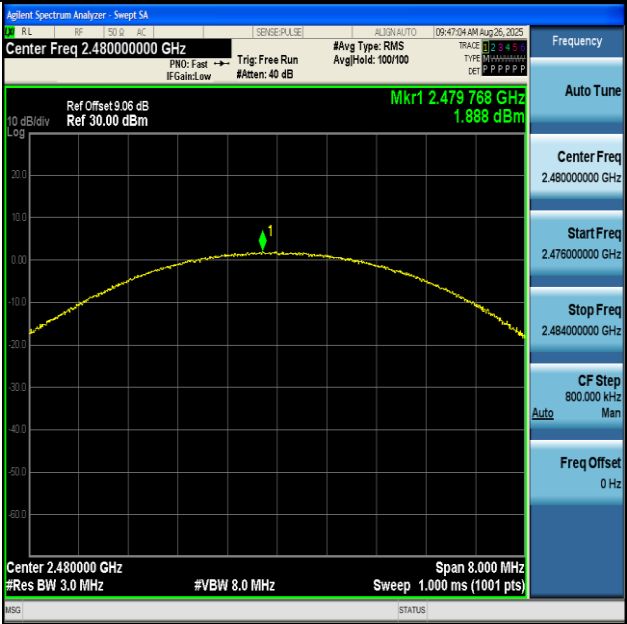
DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS

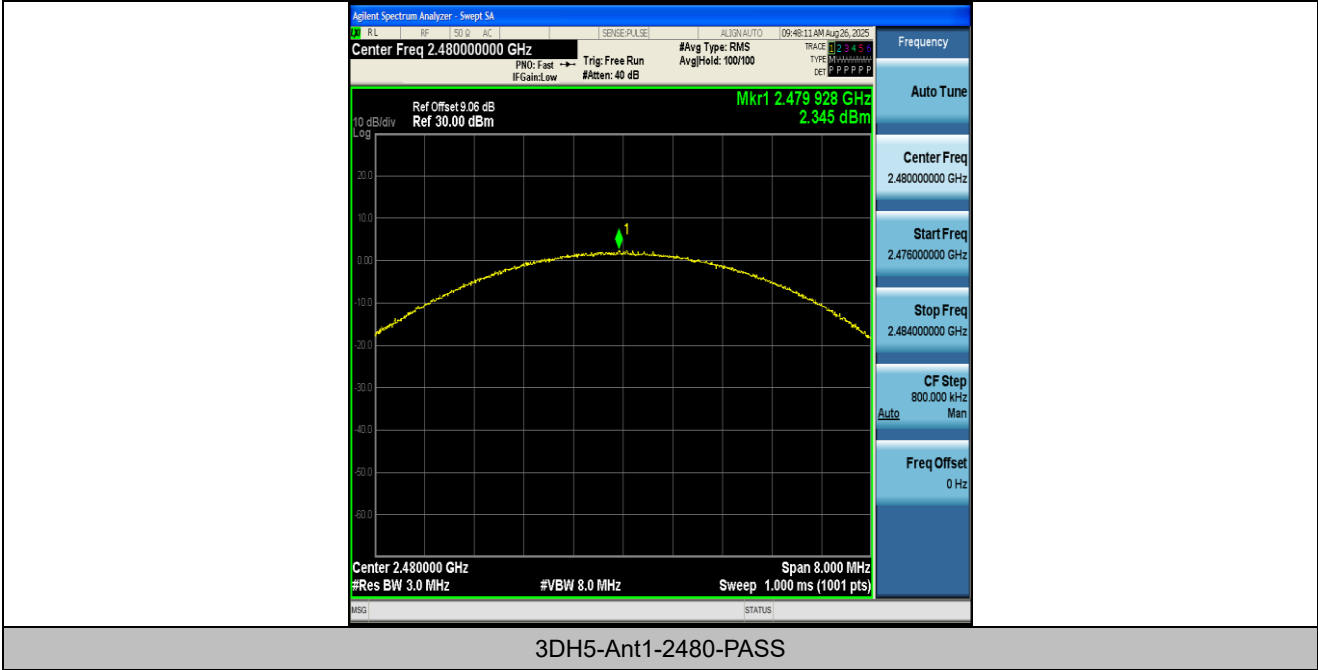


2DH5-Ant1-2441-PASS



2DH5-Ant1-2480-PASS





Appendix D: Carrier frequency separation

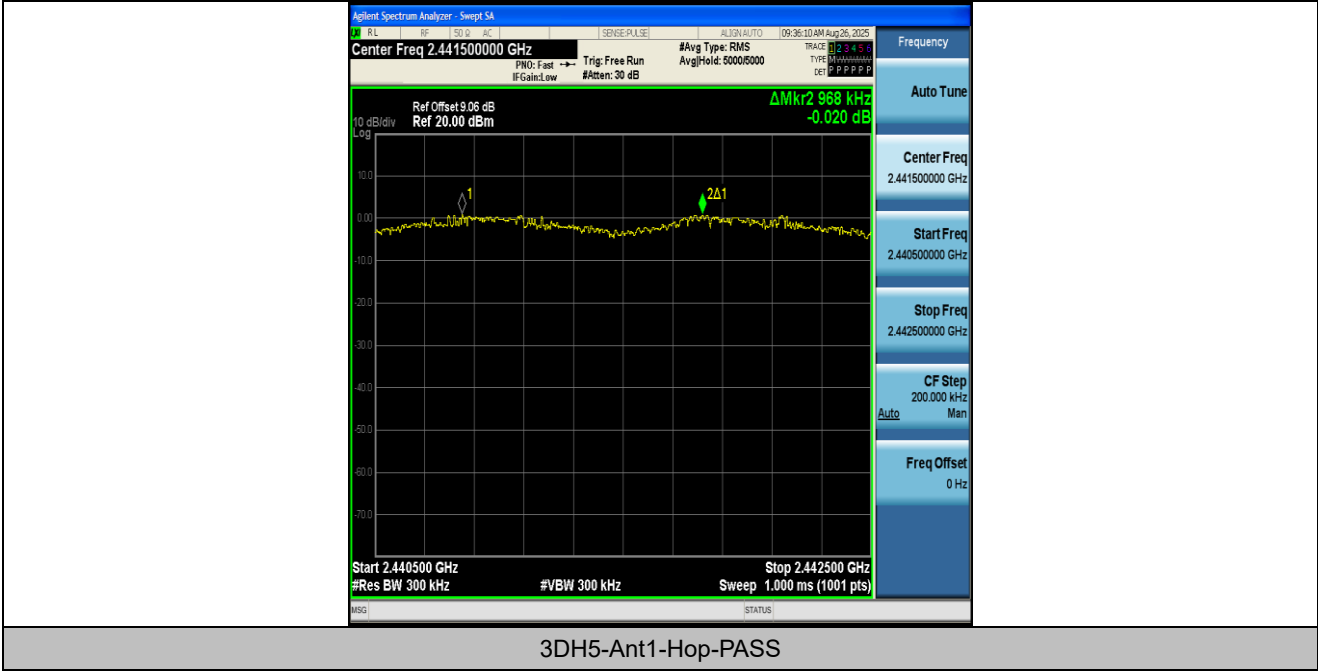
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.957	PASS
2DH5	Ant1	Hop	1.01	≥ 0.888	PASS
3DH5	Ant1	Hop	0.968	≥ 0.864	PASS

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

Test Graphs





3DH5-Ant1-Hop-PASS

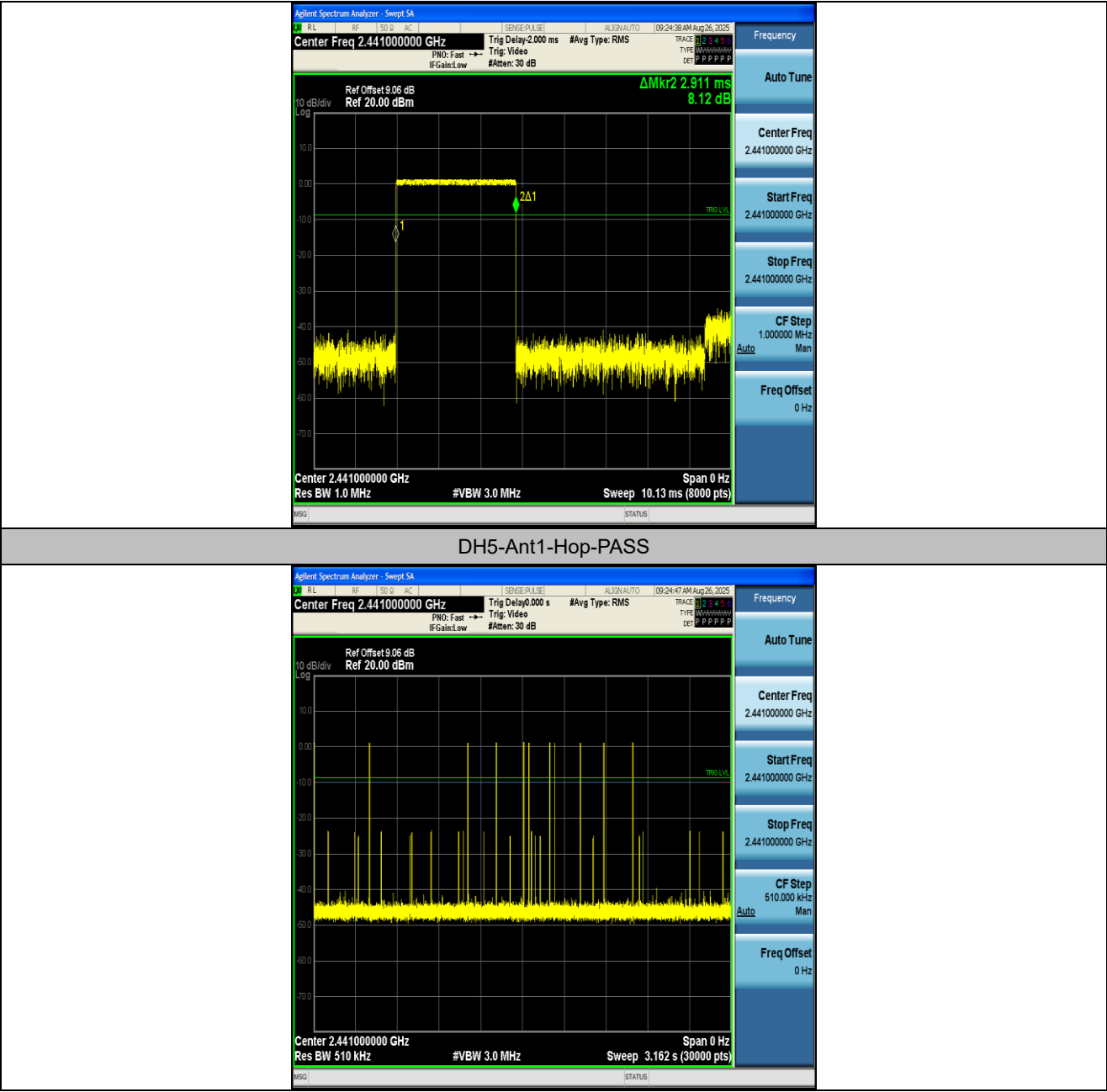
Appendix E: Time of occupancy

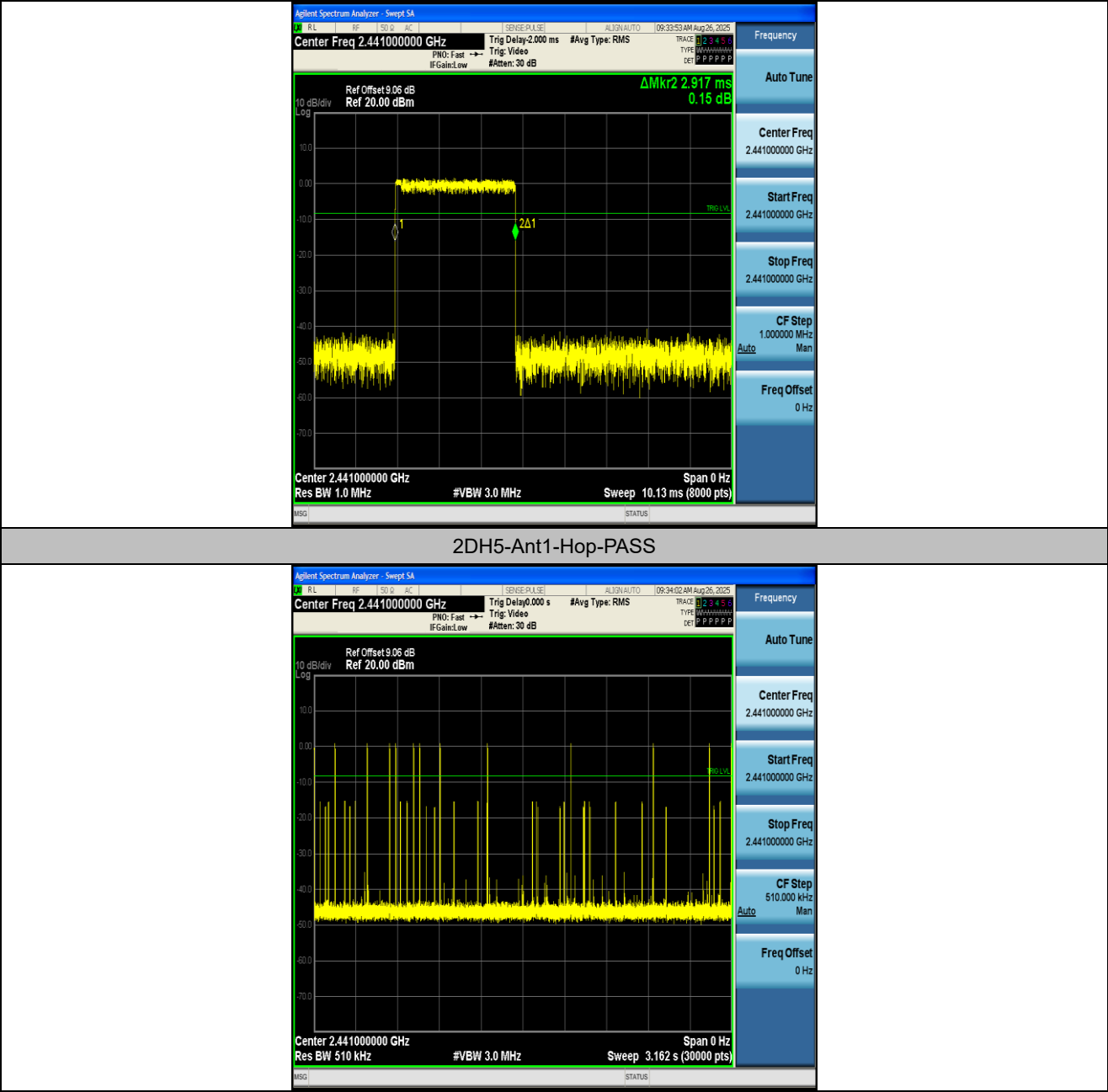
Test Result

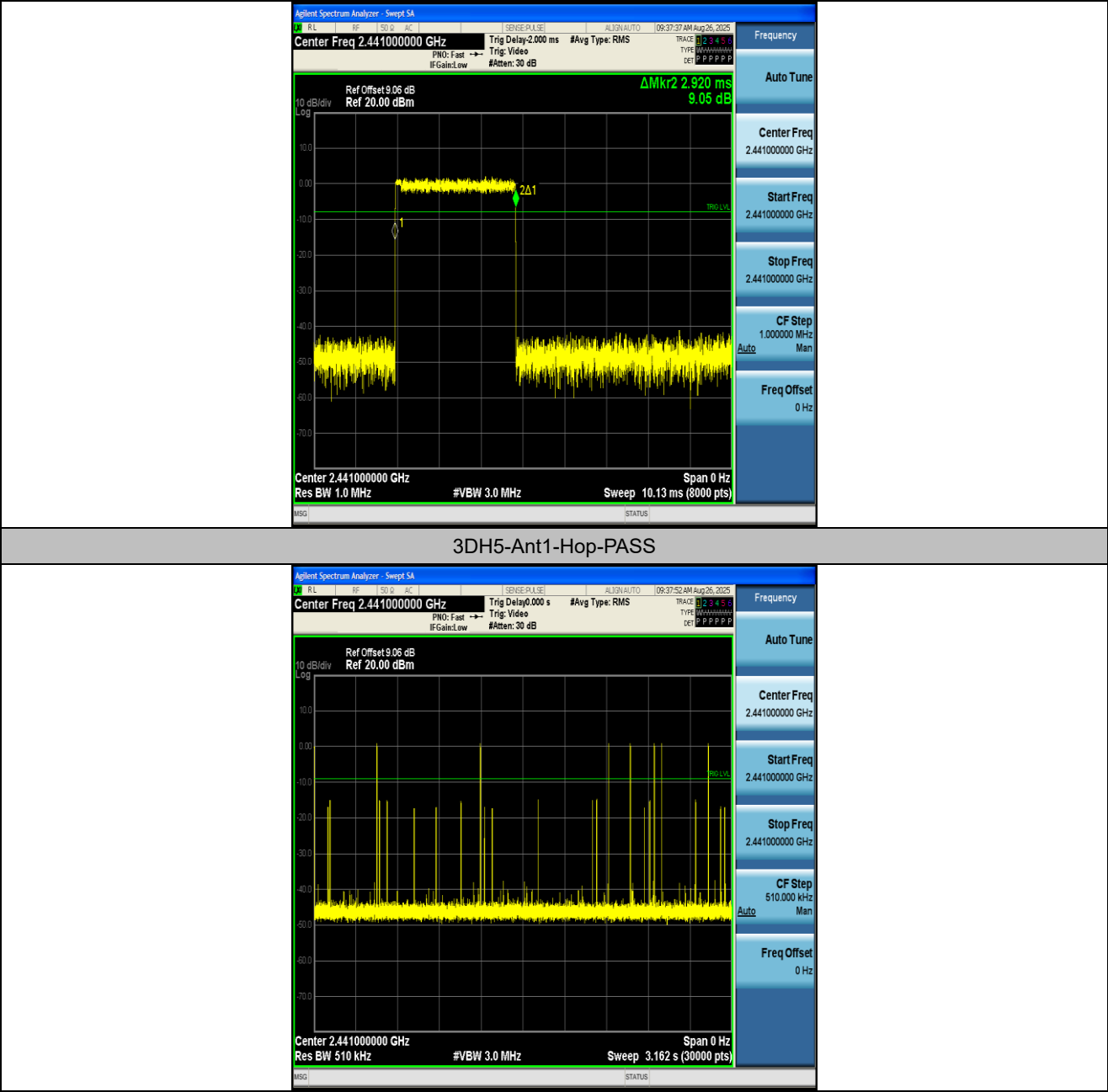
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.911	110	0.32	≤0.4	PASS
2DH5	Ant1	Hop	2.917	130	0.379	≤0.4	PASS
3DH5	Ant1	Hop	2.920	80	0.234	≤0.4	PASS

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

Test Graphs







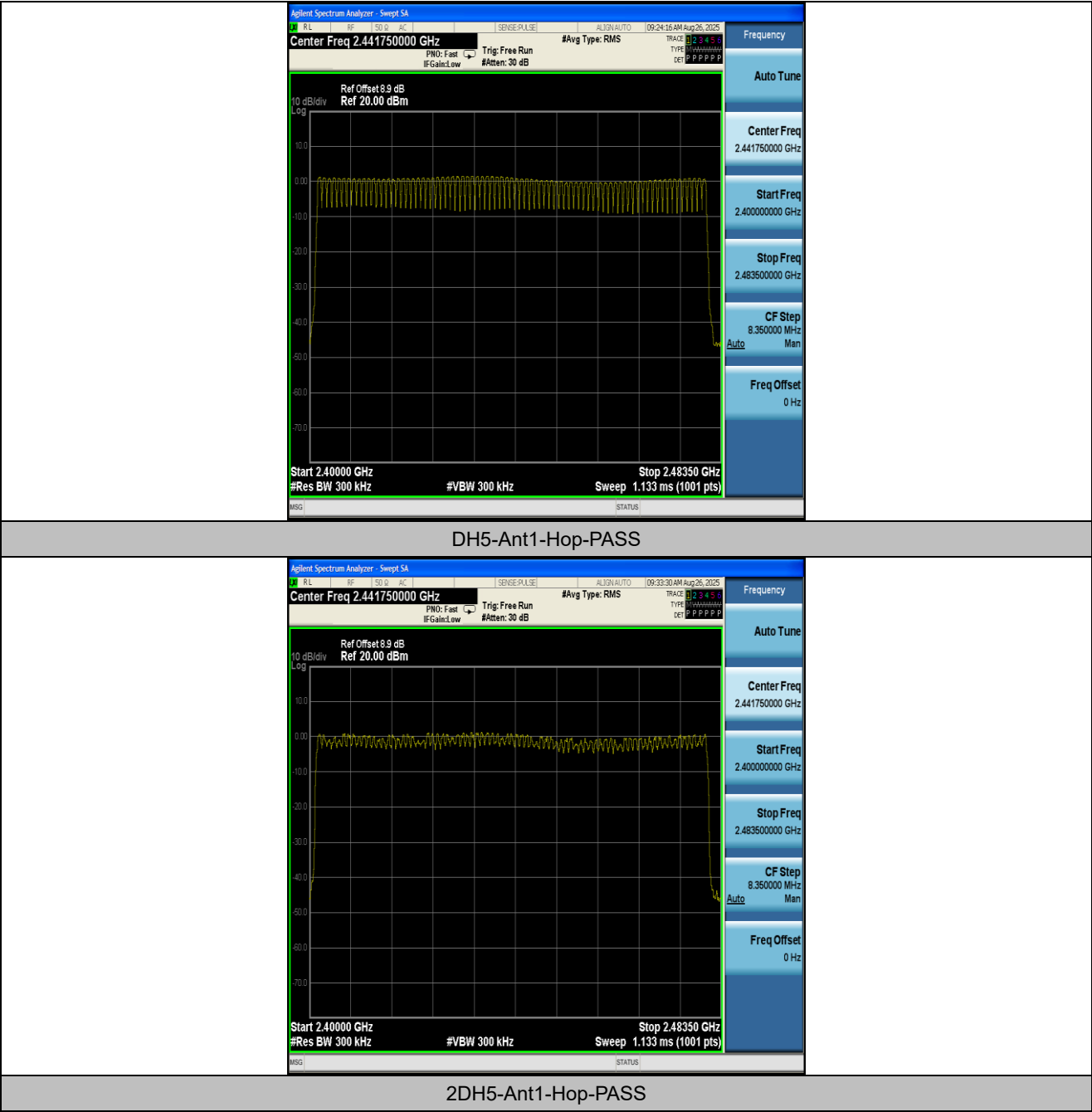
Appendix F: Number of hopping channels

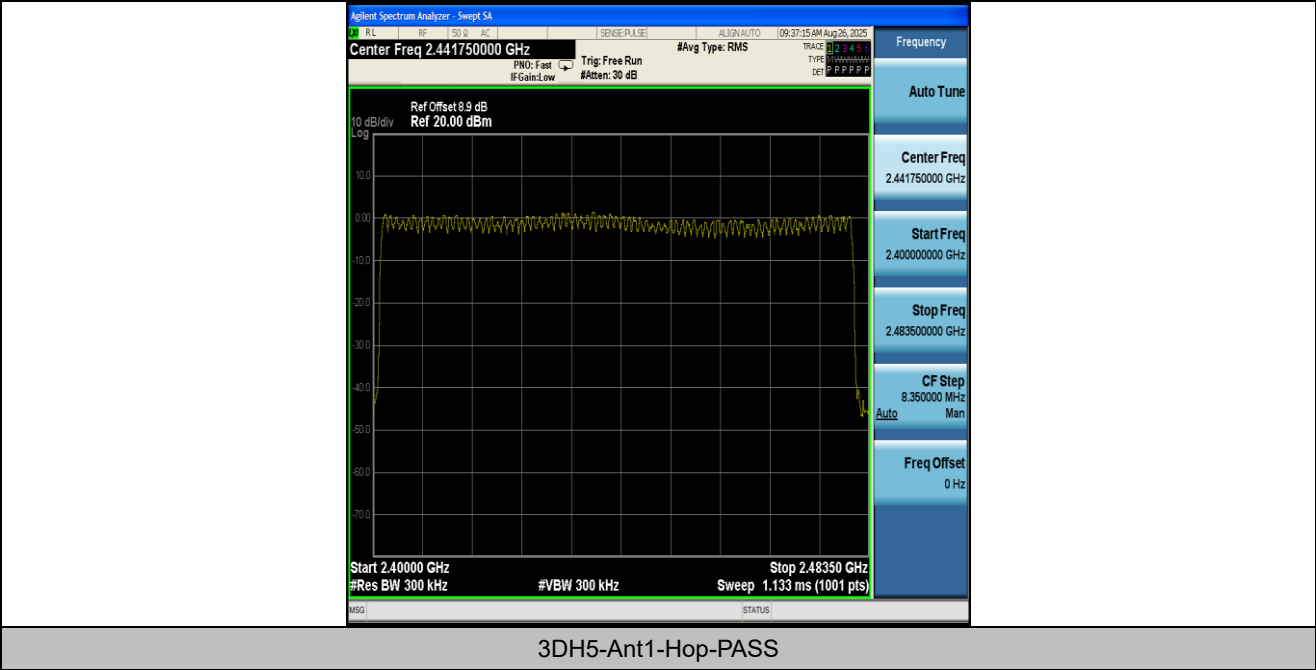
Test Result

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





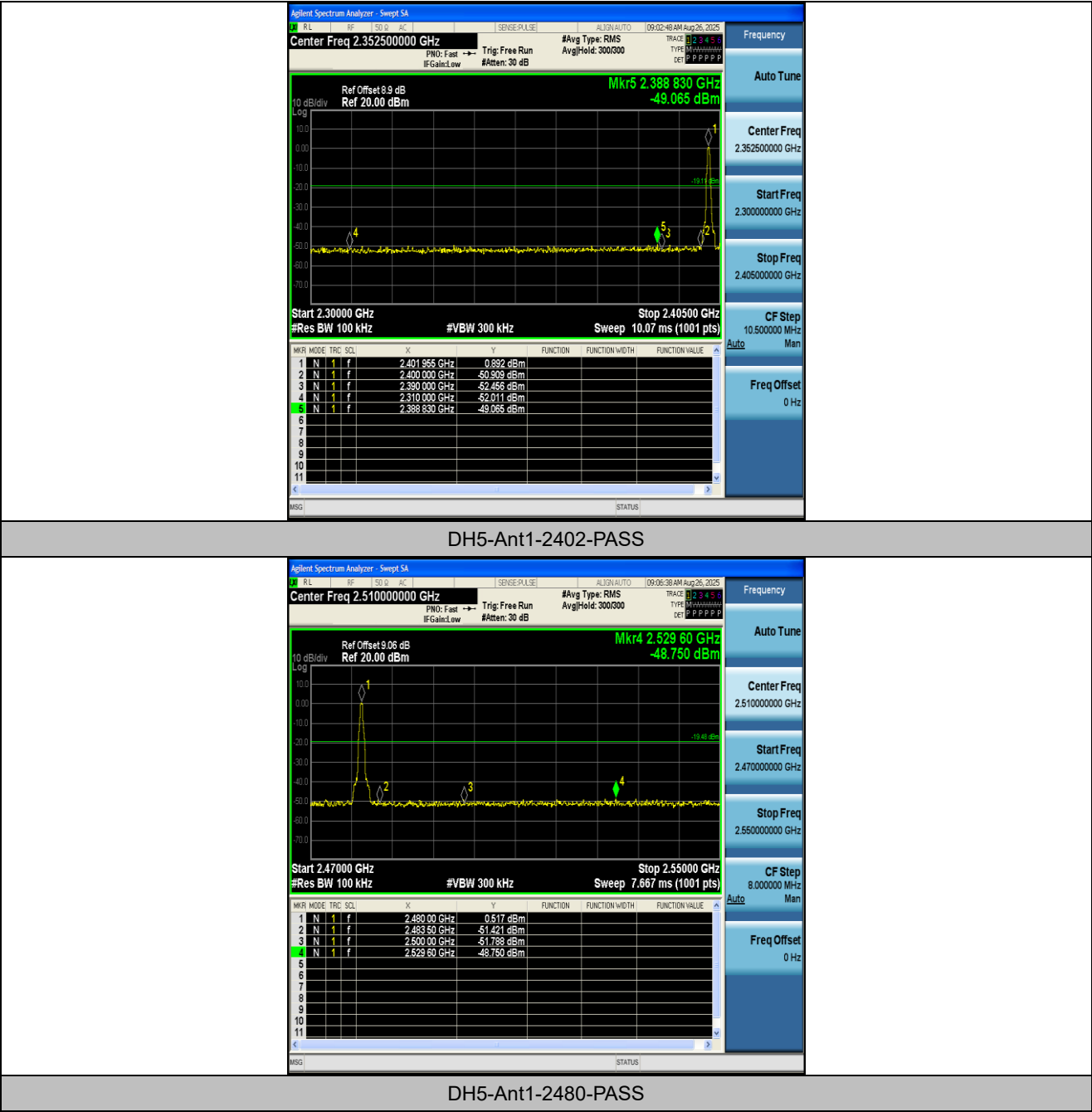
Appendix G: Band edge measurements

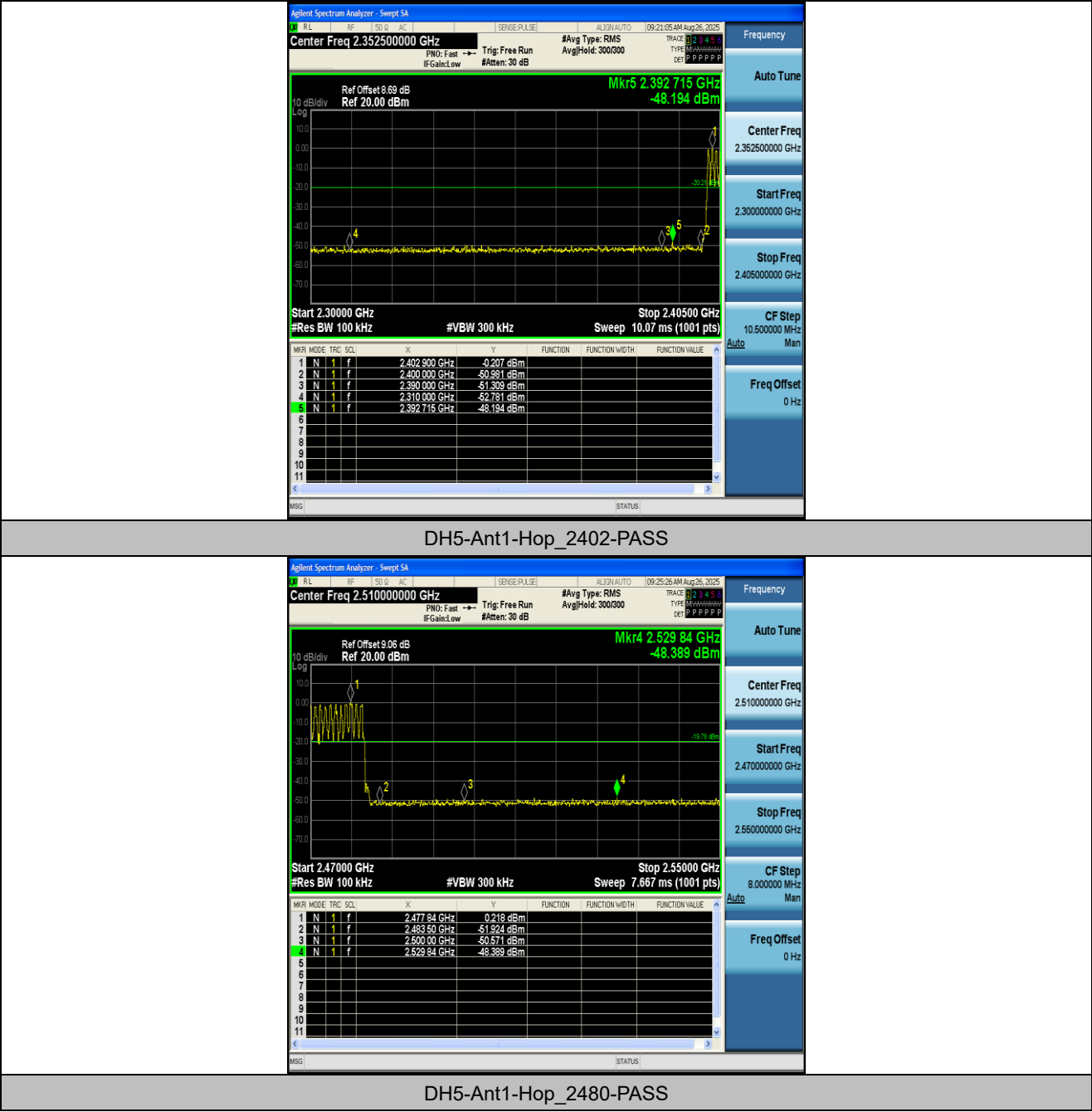
Test Result

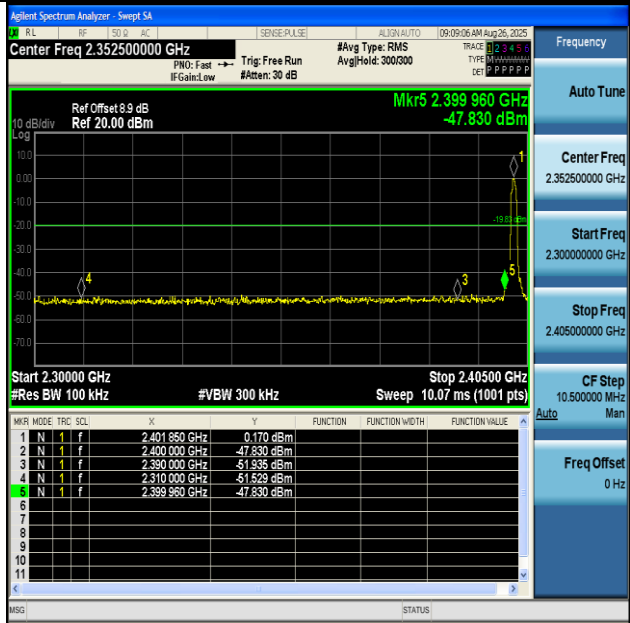
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.89	-49.07	≤-19.11	PASS
DH5	Ant1	High	2480	0.52	-48.75	≤-19.48	PASS
DH5	Ant1	Low	Hop_2402	-0.21	-48.19	≤-20.21	PASS
DH5	Ant1	High	Hop_2480	0.22	-48.39	≤-19.78	PASS
2DH5	Ant1	Low	2402	0.17	-47.83	≤-19.83	PASS
2DH5	Ant1	High	2480	0.21	-48.13	≤-19.79	PASS
2DH5	Ant1	Low	Hop_2402	-4.34	-49.8	≤-24.34	PASS
2DH5	Ant1	High	Hop_2480	-1.95	-48.71	≤-21.95	PASS
3DH5	Ant1	Low	2402	0.39	-48.06	≤-19.61	PASS
3DH5	Ant1	High	2480	-0.21	-48.08	≤-20.21	PASS
3DH5	Ant1	Low	Hop_2402	-3.57	-49.01	≤-23.57	PASS
3DH5	Ant1	High	Hop_2480	-0.03	-48.01	≤-20.03	PASS

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

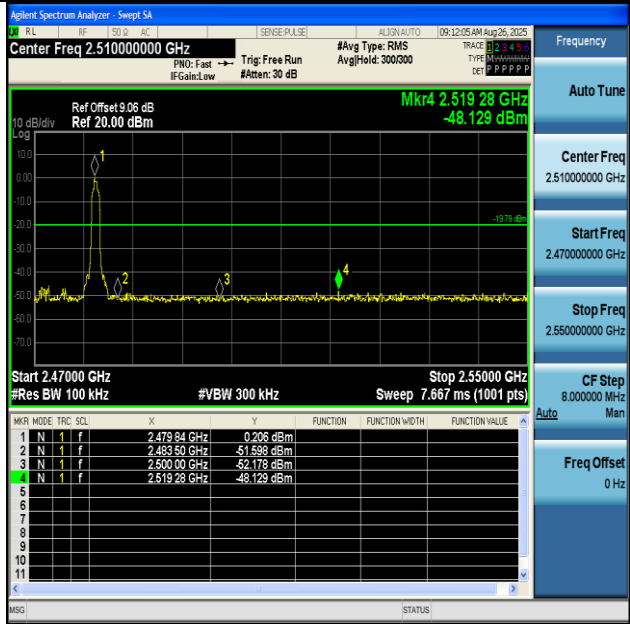
Test Graphs



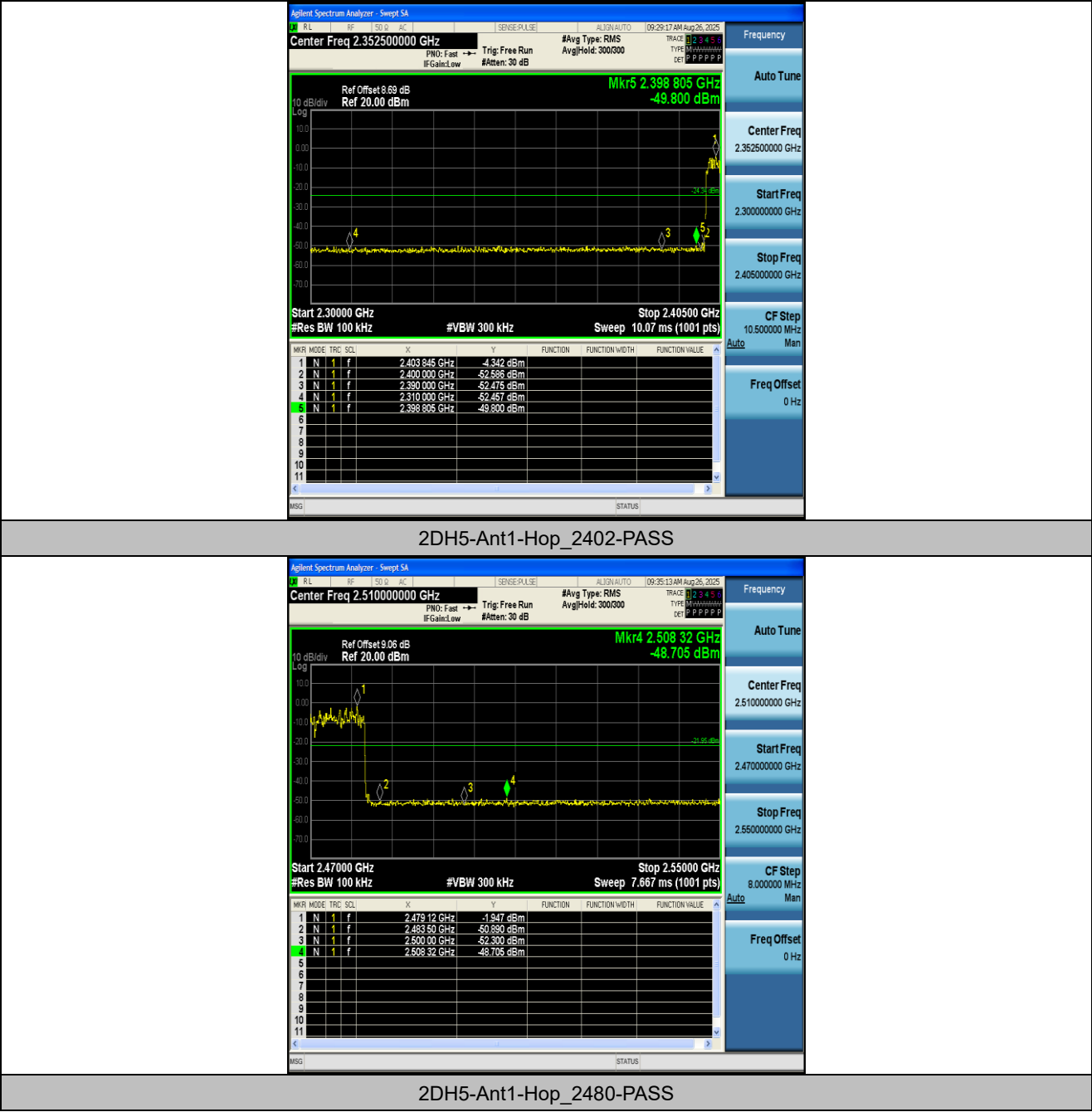


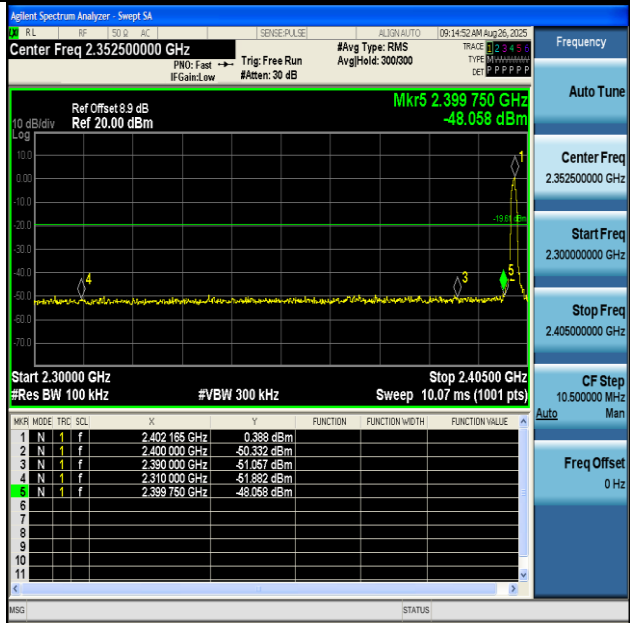


2DH5-Ant1-2402-PASS

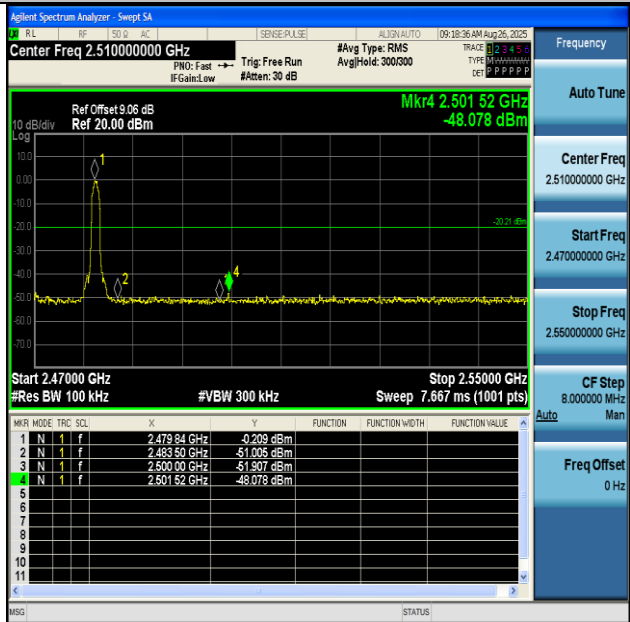


2DH5-Ant1-2480-PASS

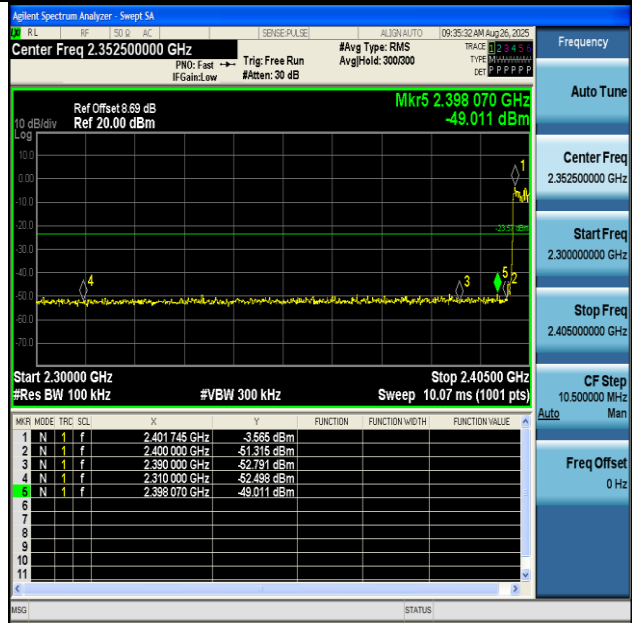




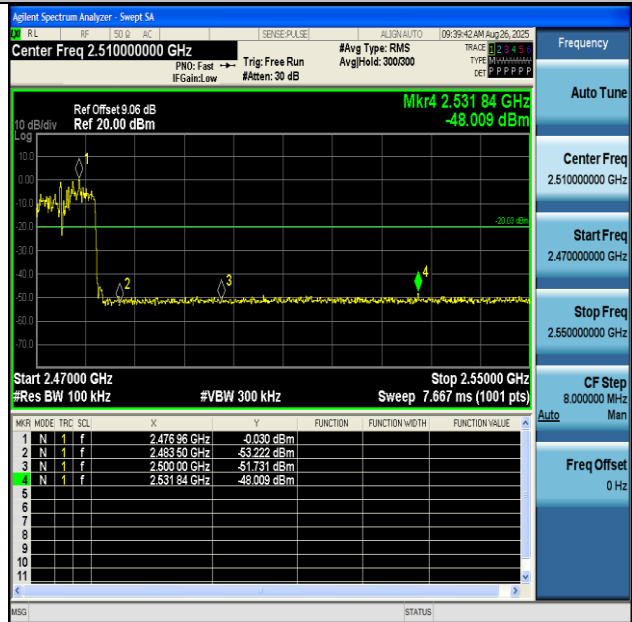
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS

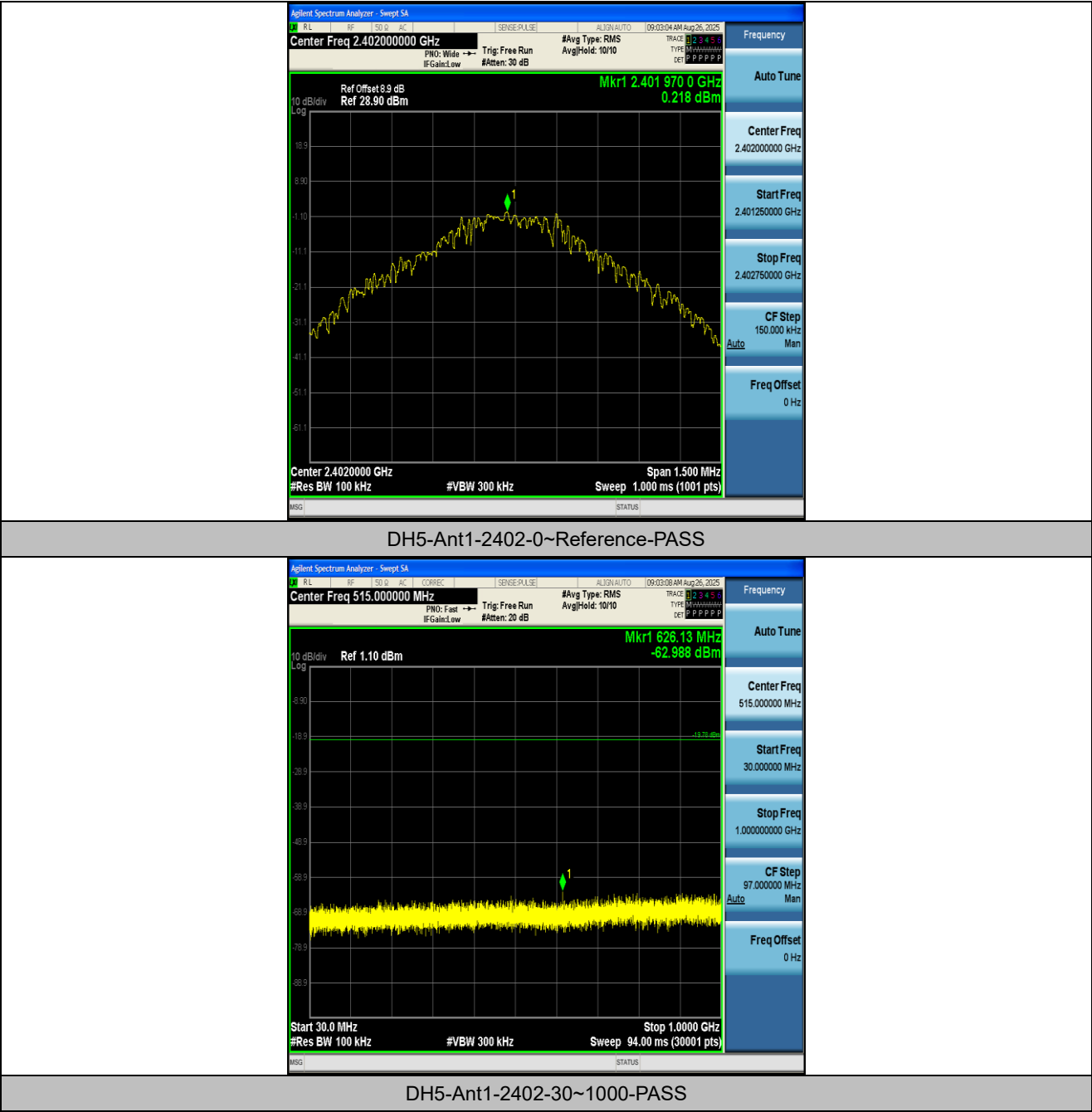
Appendix H: Conducted Spurious Emission

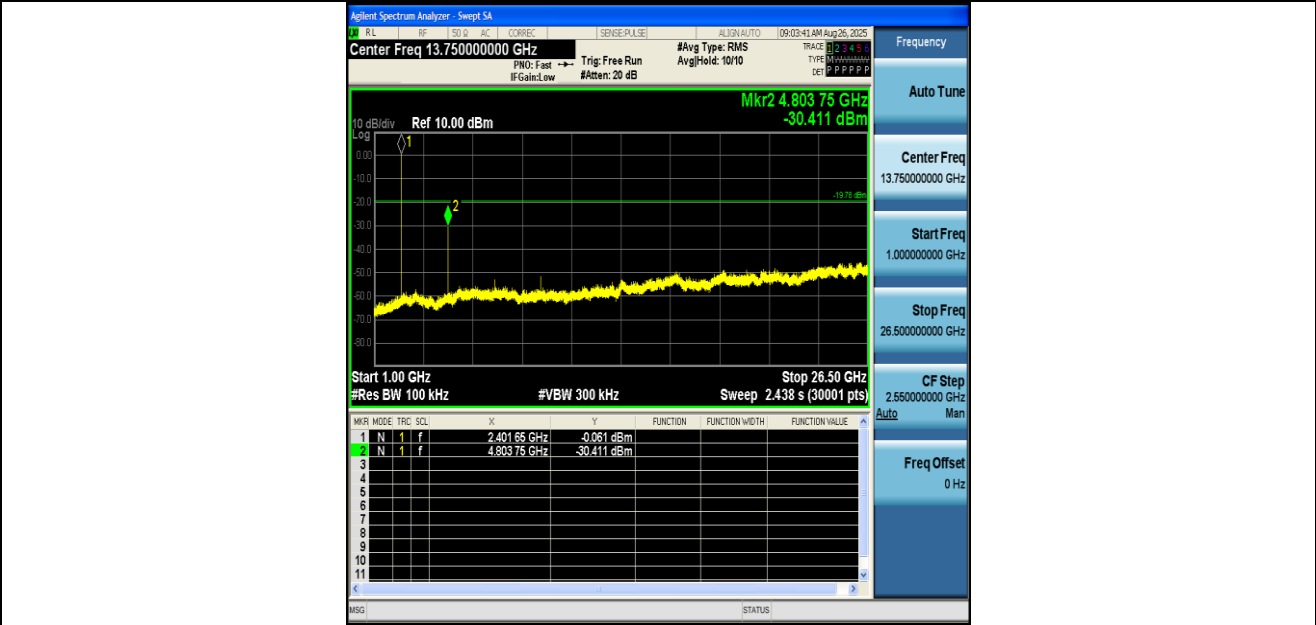
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	0.22	0.22	---	PASS
DH5	Ant1	2402	30~1000	0.22	-62.99	≤-19.78	PASS
DH5	Ant1	2402	1000~26500	0.22	-30.41	≤-19.78	PASS
DH5	Ant1	2441	0~Reference	0.37	0.37	---	PASS
DH5	Ant1	2441	30~1000	0.37	-62.99	≤-19.63	PASS
DH5	Ant1	2441	1000~26500	0.37	-30.33	≤-19.63	PASS
DH5	Ant1	2480	0~Reference	0.13	0.13	---	PASS
DH5	Ant1	2480	30~1000	0.13	-62.94	≤-19.87	PASS
DH5	Ant1	2480	1000~26500	0.13	-34.01	≤-19.87	PASS
2DH5	Ant1	2402	0~Reference	-3.81	-3.81	---	PASS
2DH5	Ant1	2402	30~1000	-3.81	-63.15	≤-23.81	PASS
2DH5	Ant1	2402	1000~26500	-3.81	-34.53	≤-23.81	PASS
2DH5	Ant1	2441	0~Reference	-2.59	-2.59	---	PASS
2DH5	Ant1	2441	30~1000	-2.59	-61.76	≤-22.59	PASS
2DH5	Ant1	2441	1000~26500	-2.59	-35.29	≤-22.59	PASS
2DH5	Ant1	2480	0~Reference	-1.97	-1.97	---	PASS
2DH5	Ant1	2480	30~1000	-1.97	-63.15	≤-21.97	PASS
2DH5	Ant1	2480	1000~26500	-1.97	-31.18	≤-21.97	PASS
3DH5	Ant1	2402	0~Reference	0.29	0.29	---	PASS
3DH5	Ant1	2402	30~1000	0.29	-62.53	≤-19.71	PASS
3DH5	Ant1	2402	1000~26500	0.29	-33.79	≤-19.71	PASS
3DH5	Ant1	2441	0~Reference	-0.95	-0.95	---	PASS
3DH5	Ant1	2441	30~1000	-0.95	-62.63	≤-20.95	PASS
3DH5	Ant1	2441	1000~26500	-0.95	-34.41	≤-20.95	PASS
3DH5	Ant1	2480	0~Reference	-2.02	-2.02	---	PASS
3DH5	Ant1	2480	30~1000	-2.02	-62.81	≤-22.02	PASS
3DH5	Ant1	2480	1000~26500	-2.02	-34.13	≤-22.02	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

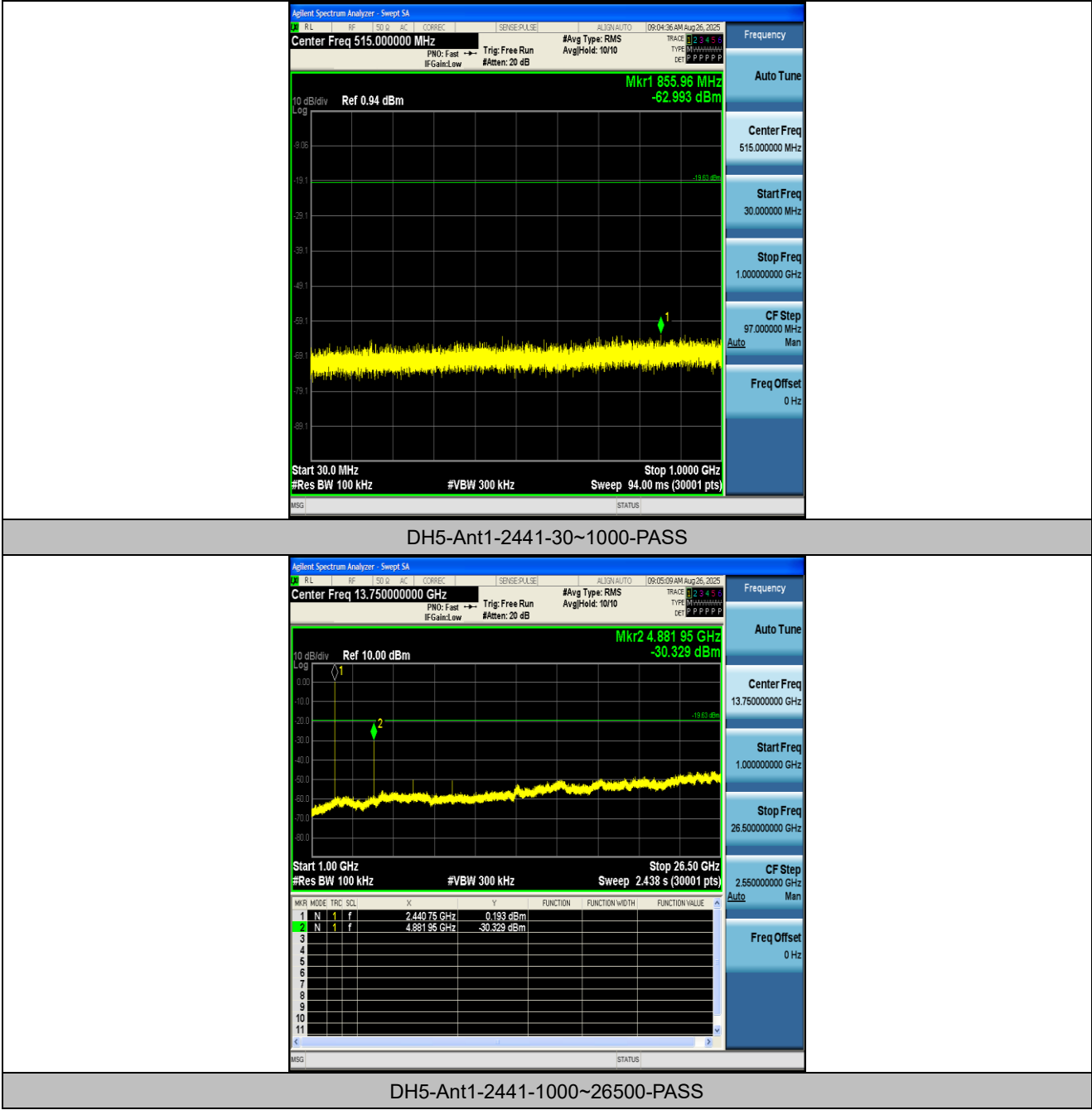




DH5-Ant1-2402-1000~26500-PASS

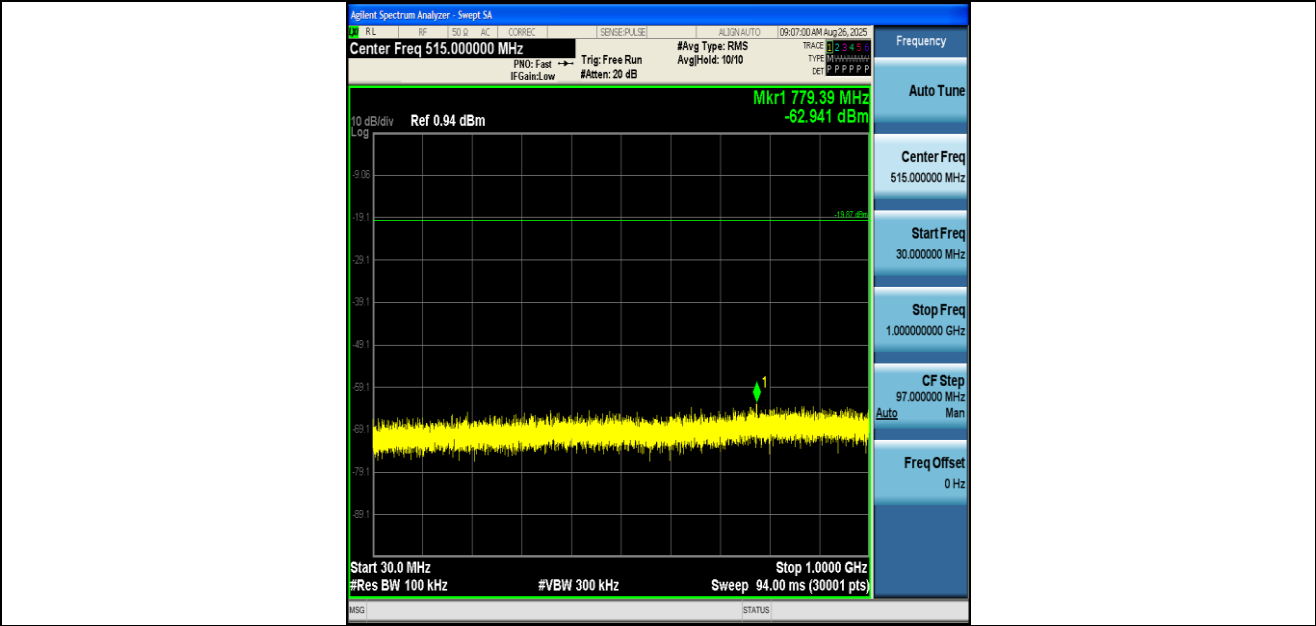


DH5-Ant1-2441-0~Reference-PASS

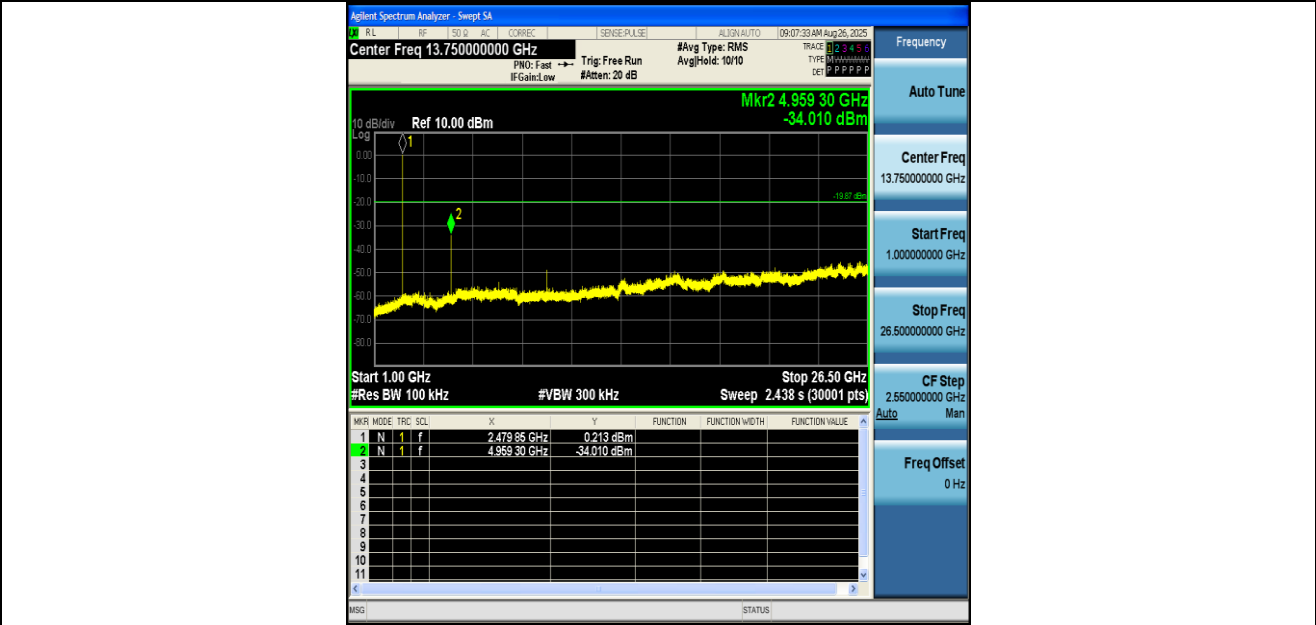




DH5-Ant1-2480-0~Reference-PASS



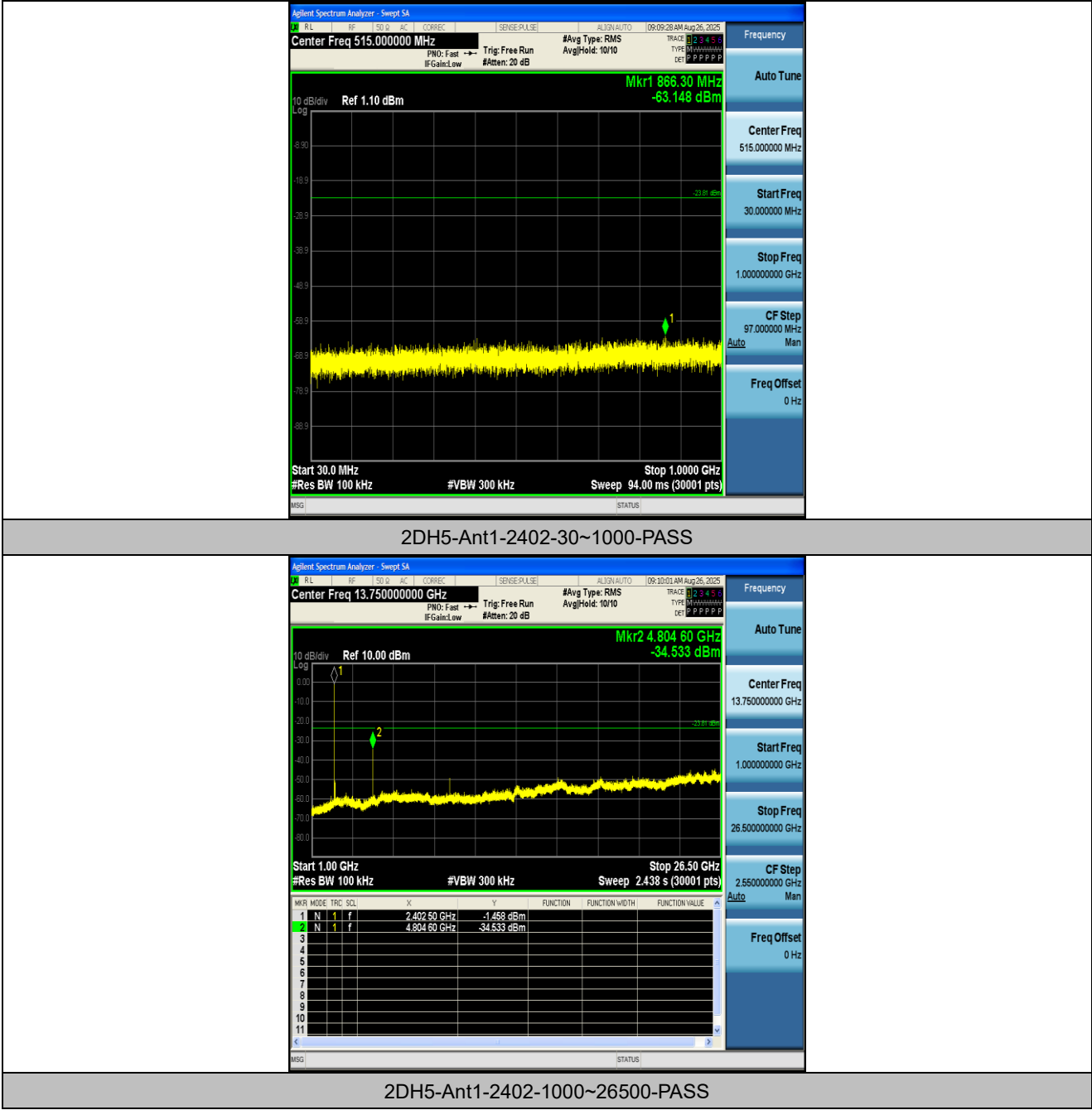
DH5-Ant1-2480-30~1000-PASS

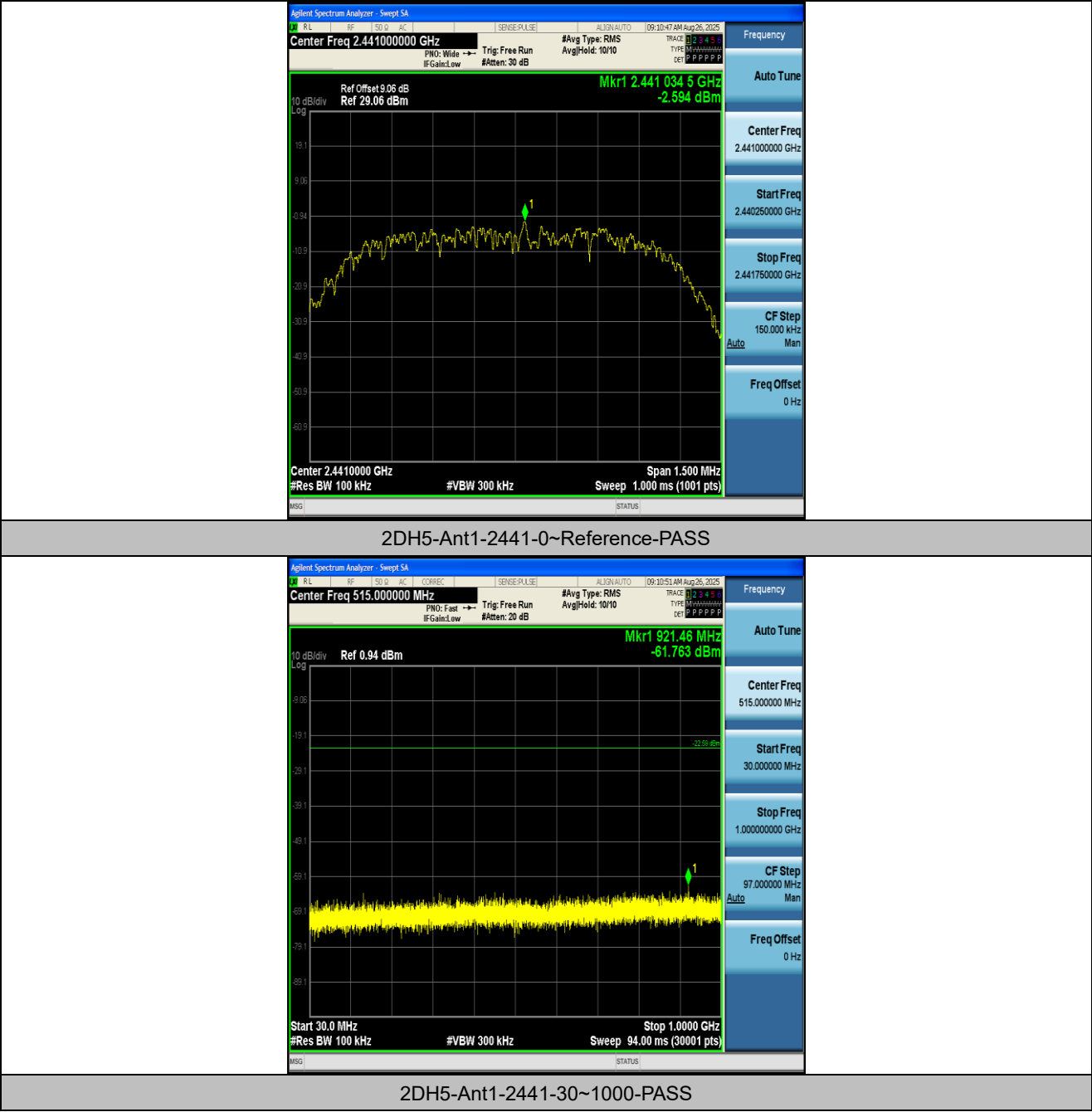


DH5-Ant1-2480-1000~26500-PASS

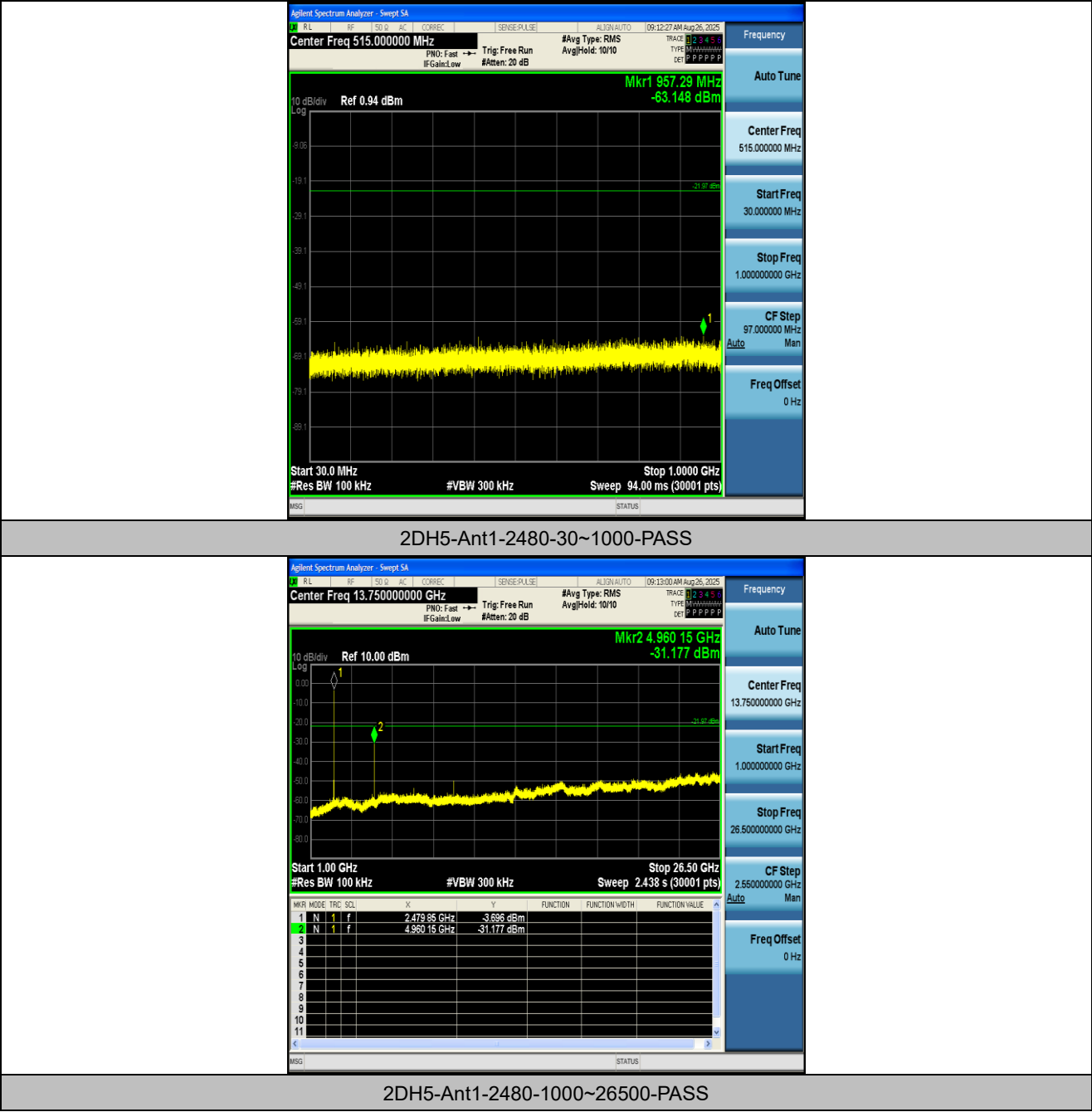


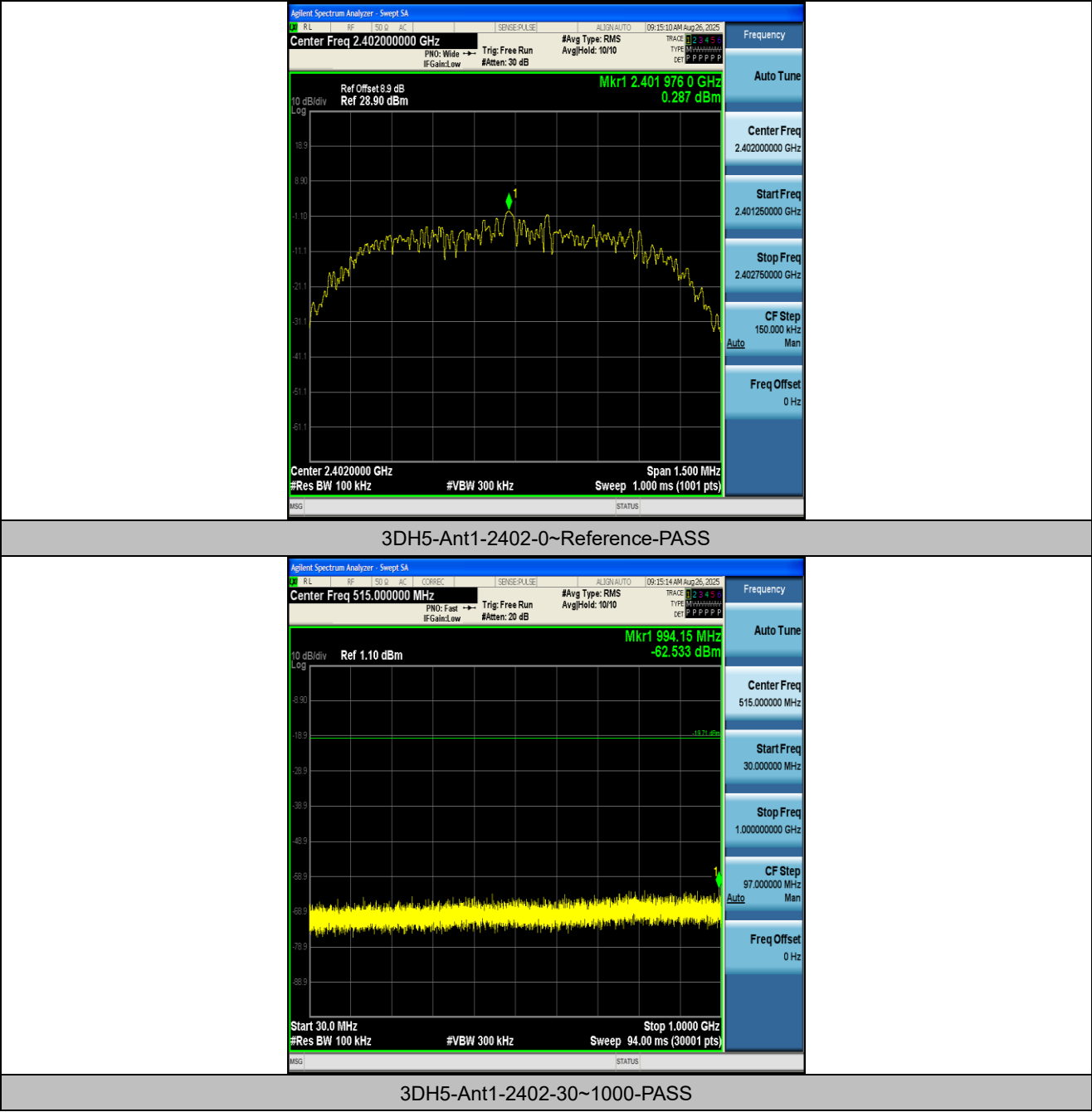
2DH5-Ant1-2402-0~Reference-PASS

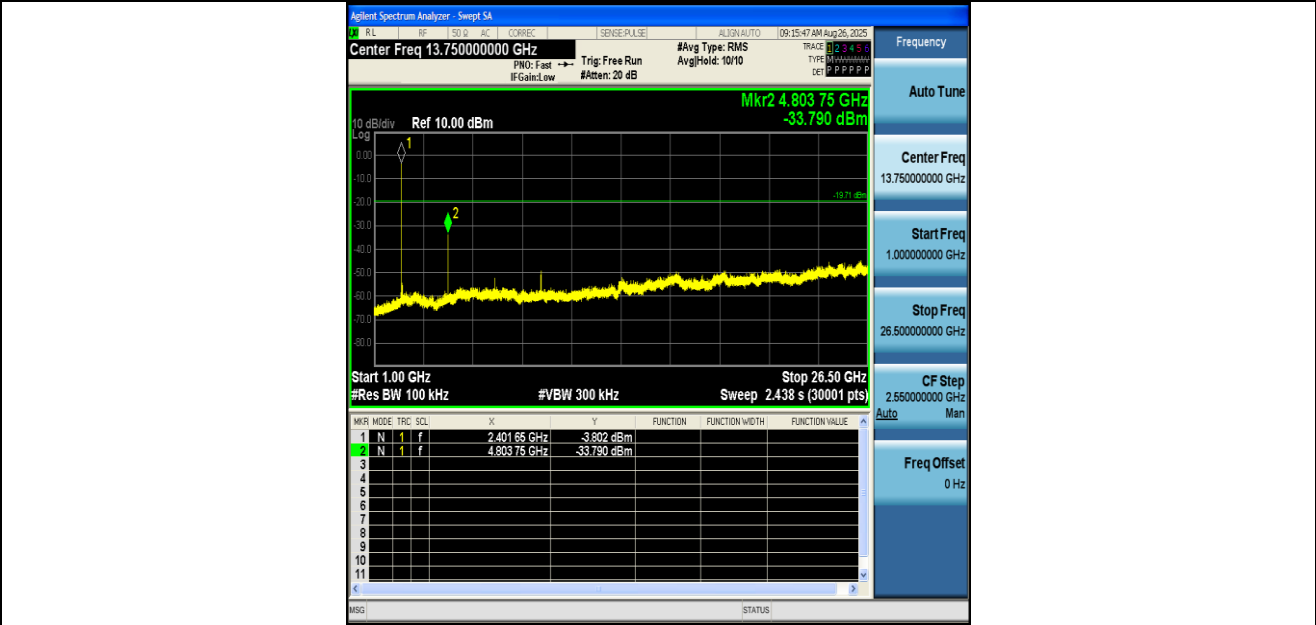








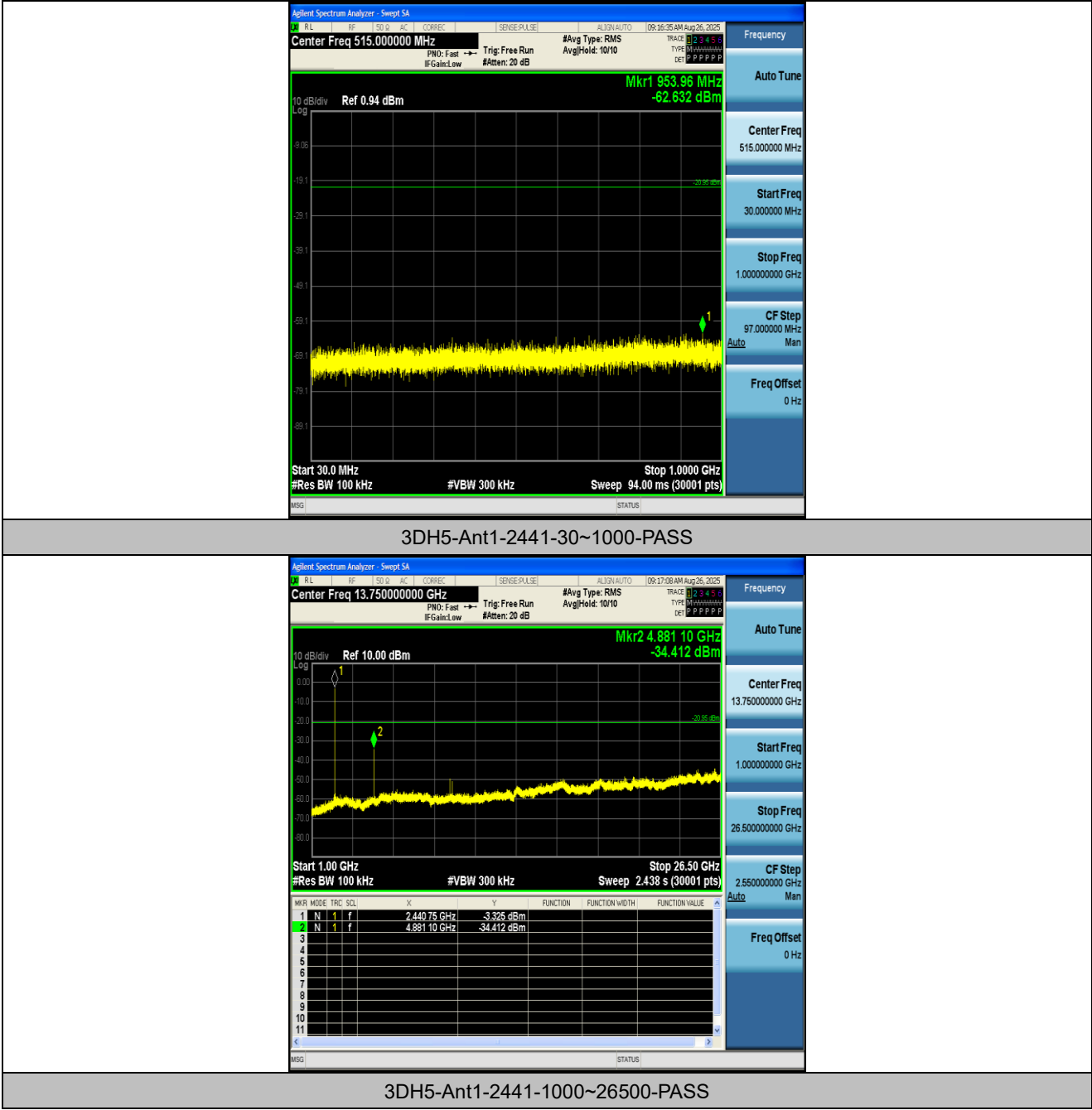


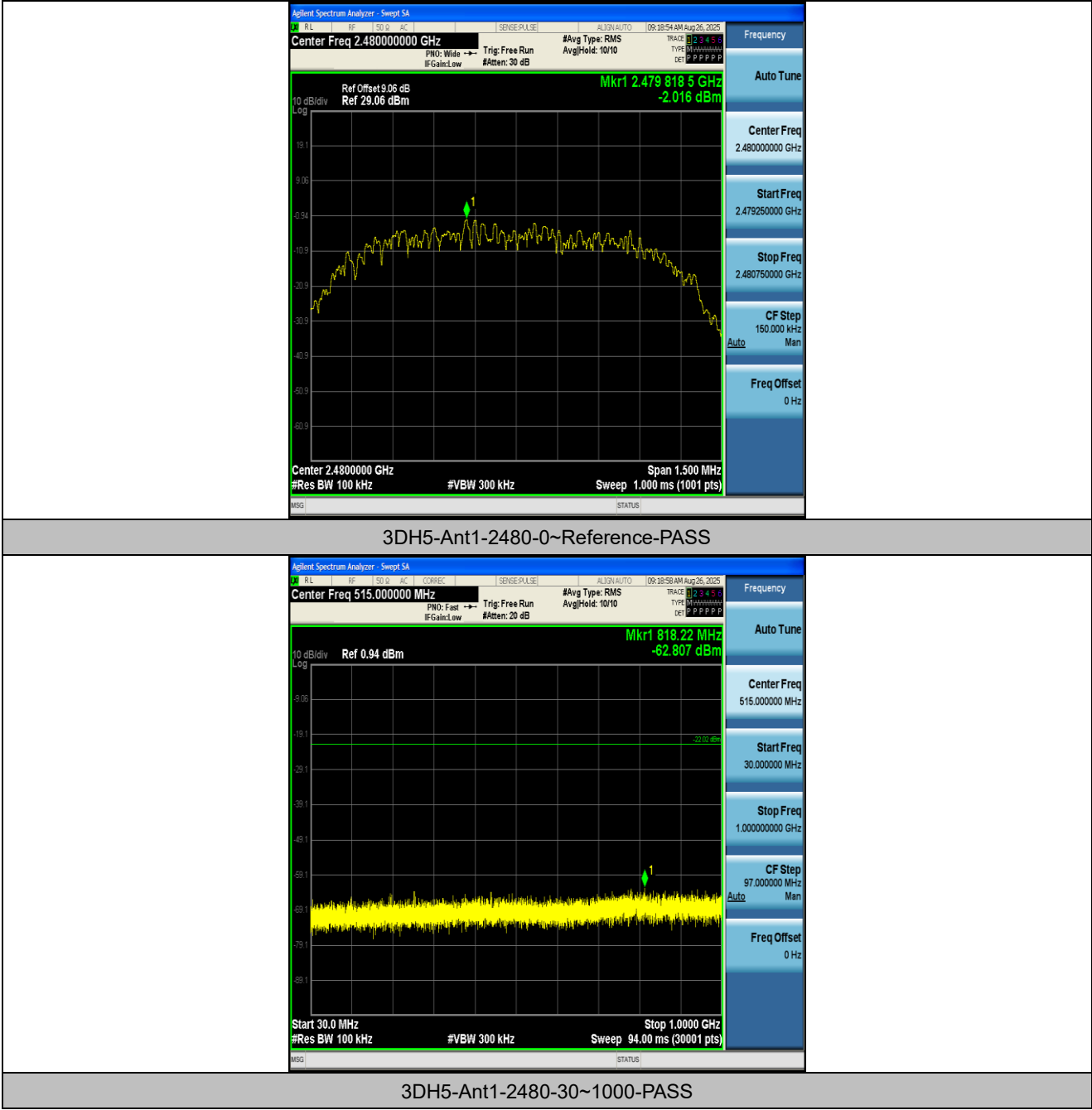


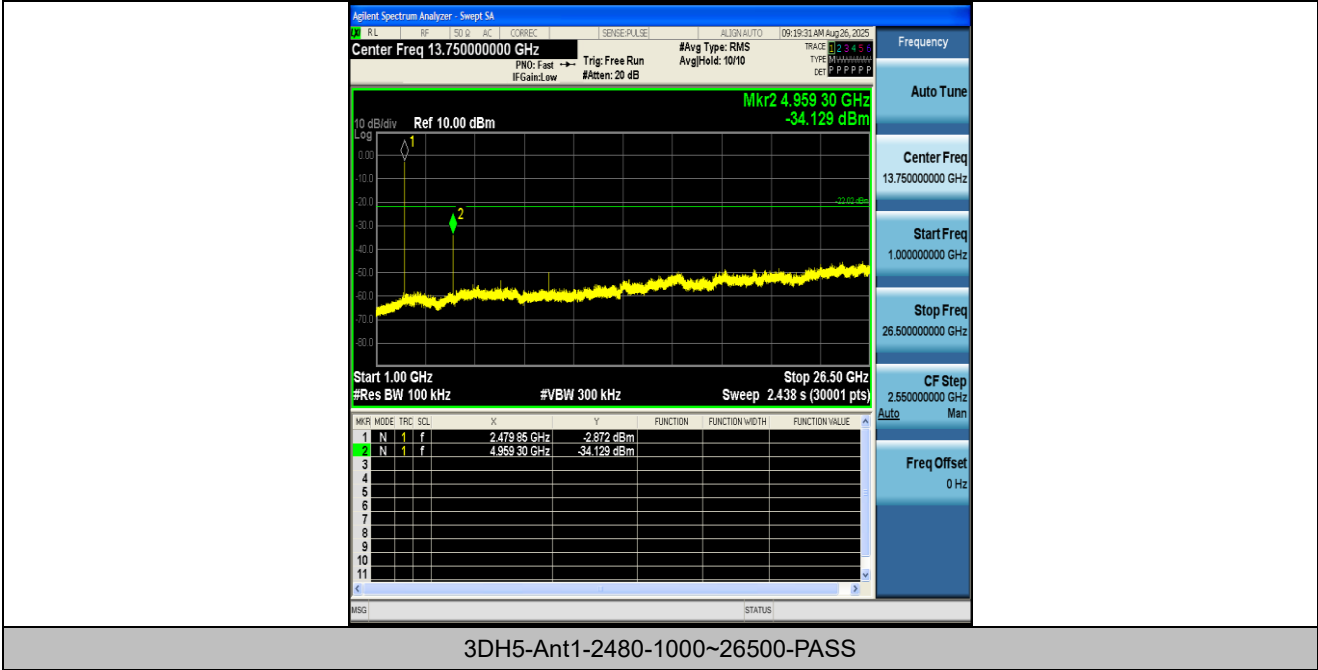
3DH5-Ant1-2402-1000~26500-PASS



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







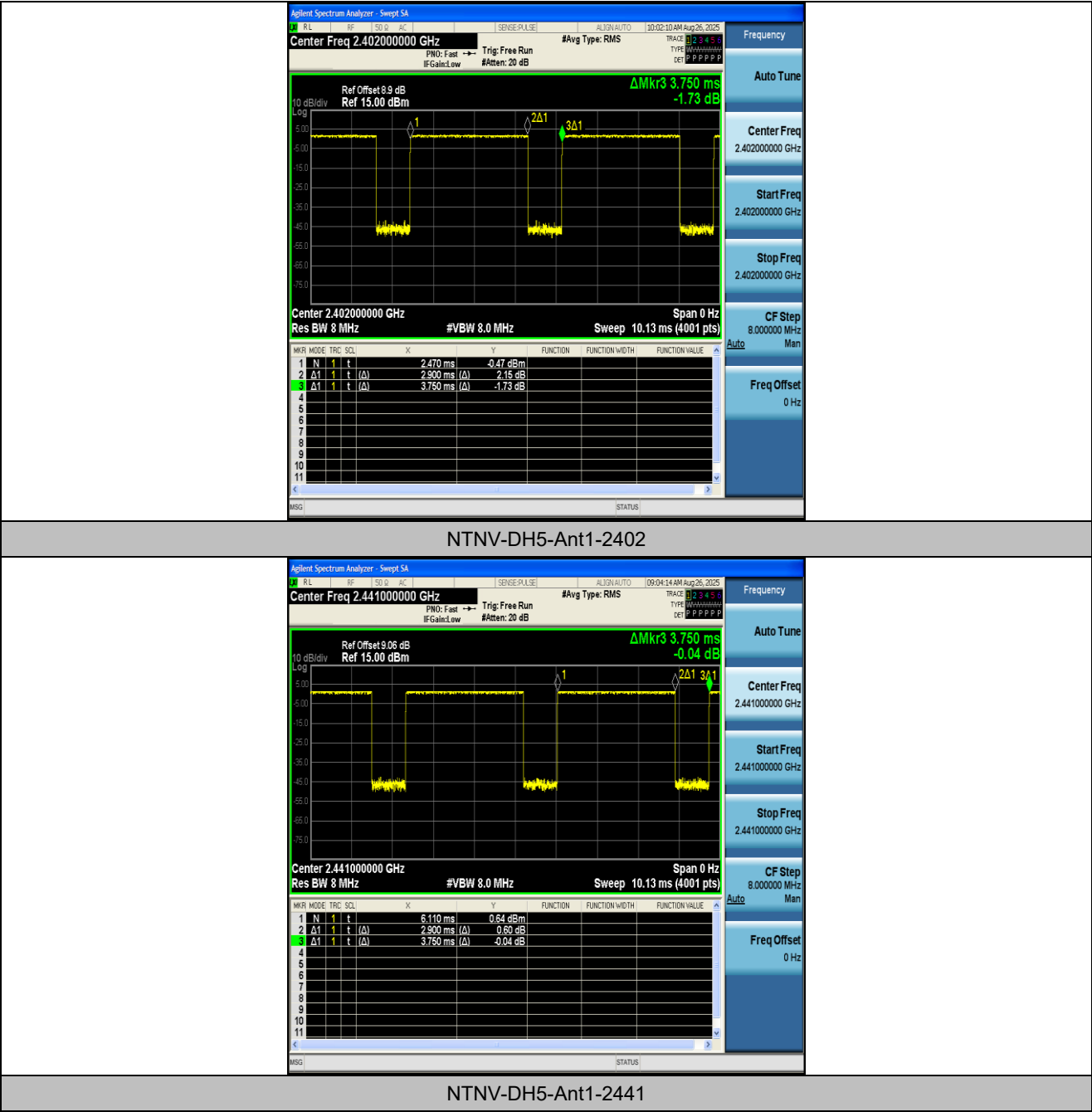
Appendix I: Duty Cycle

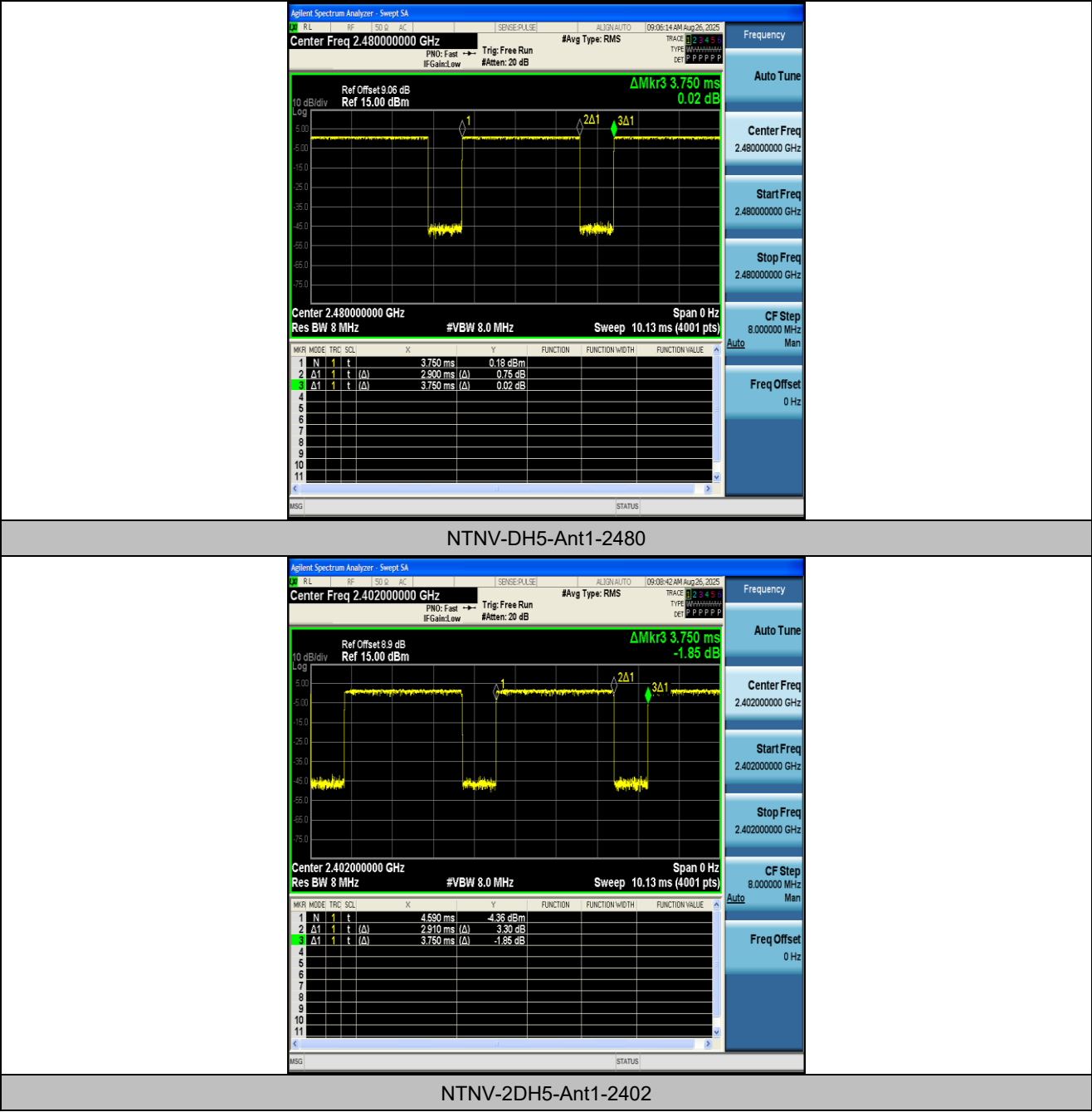
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.90	3.75	77.33	1.12
DH5	Ant1	2441	2.90	3.75	77.33	1.12
DH5	Ant1	2480	2.90	3.75	77.33	1.12
2DH5	Ant1	2402	2.91	3.75	77.60	1.10
2DH5	Ant1	2441	2.91	3.75	77.60	1.10
2DH5	Ant1	2480	2.91	3.76	77.39	1.11
3DH5	Ant1	2402	2.92	3.76	77.66	1.10
3DH5	Ant1	2441	2.91	3.75	77.60	1.10
3DH5	Ant1	2480	2.91	3.75	77.60	1.10

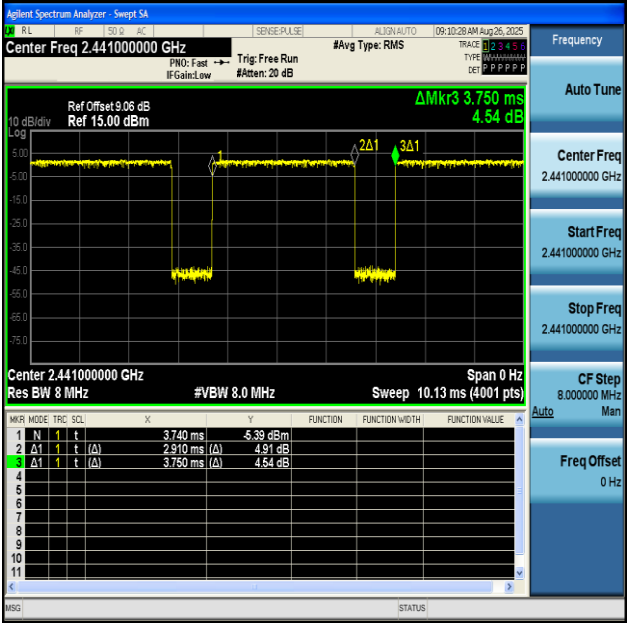
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

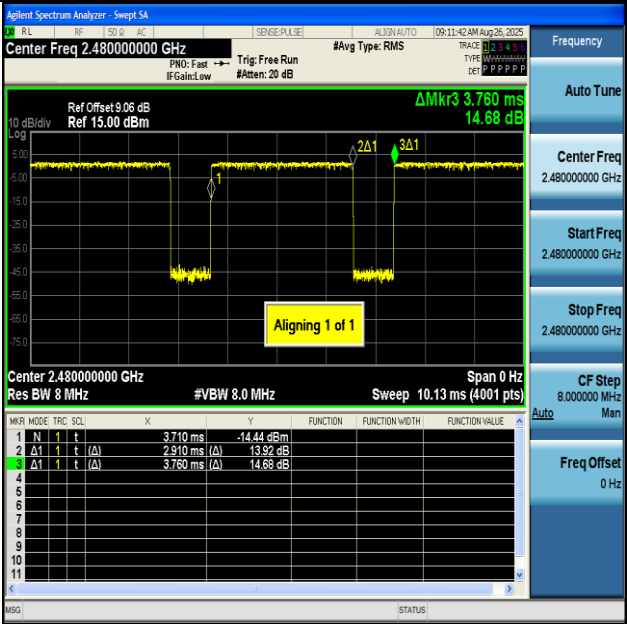




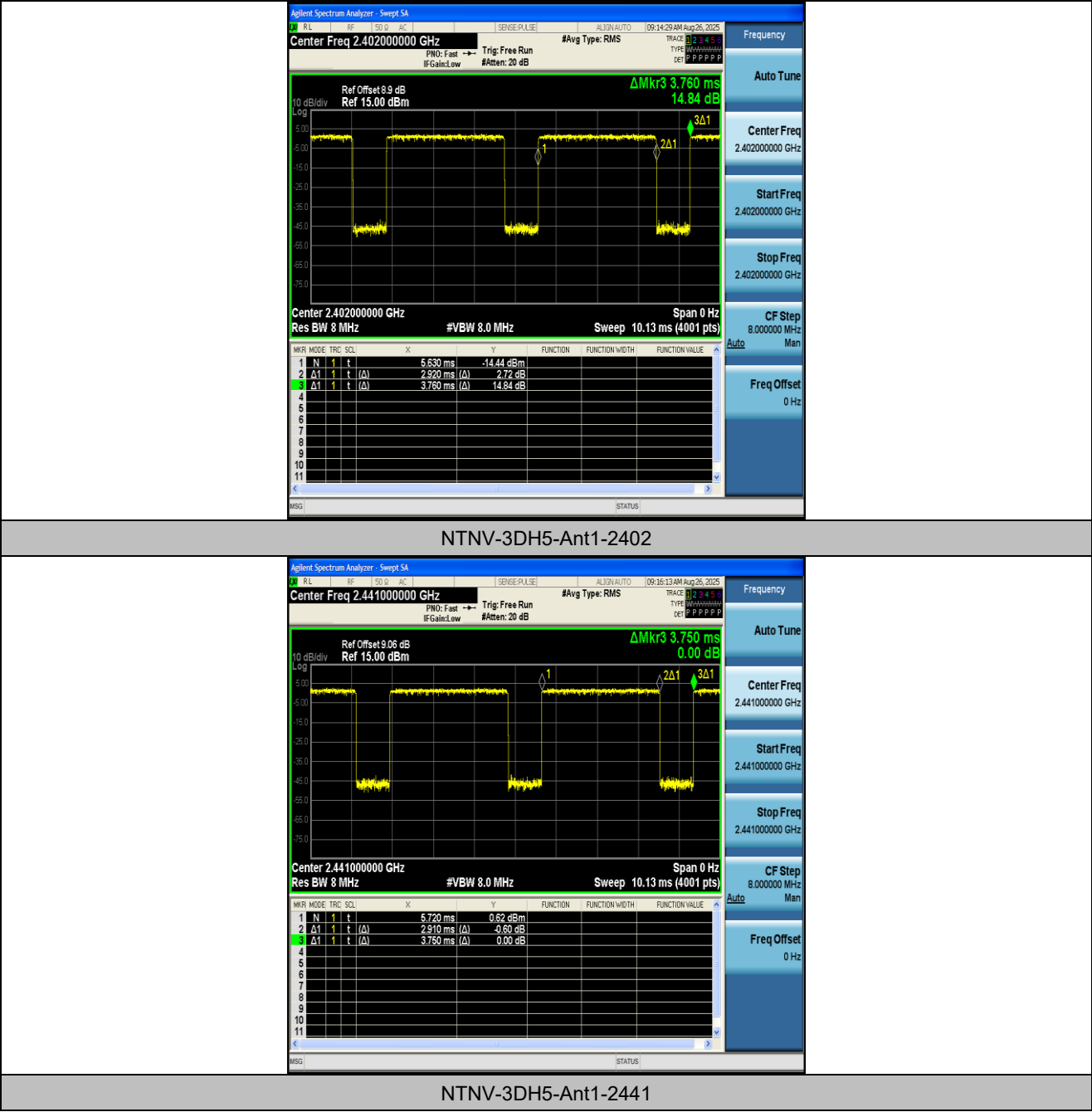
NTNV-2DH5-Ant1-2402

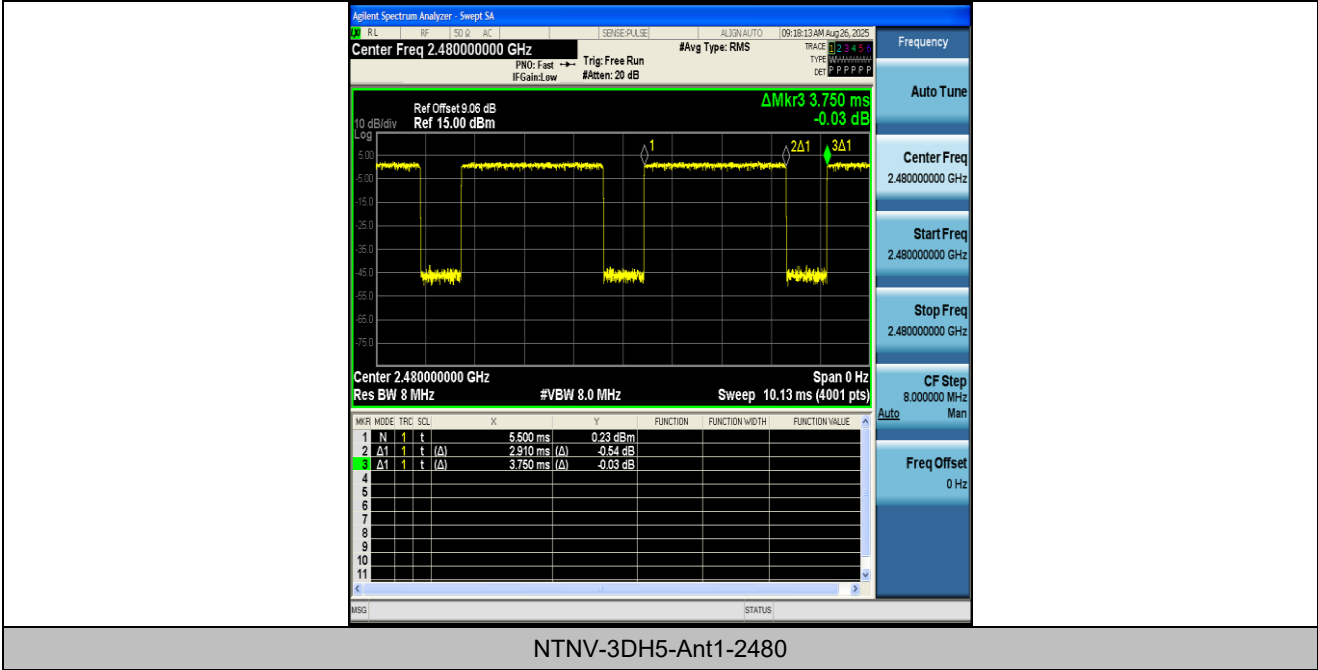


NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480





NTNV-3DH5-Ant1-2480