

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

Product Name: WIRELESS MICROPHONE

Trade Mark: Singing Machine

Test Model: MIC9025

FCC ID: 2AAXO-MIC9025

Environmental Conditions

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

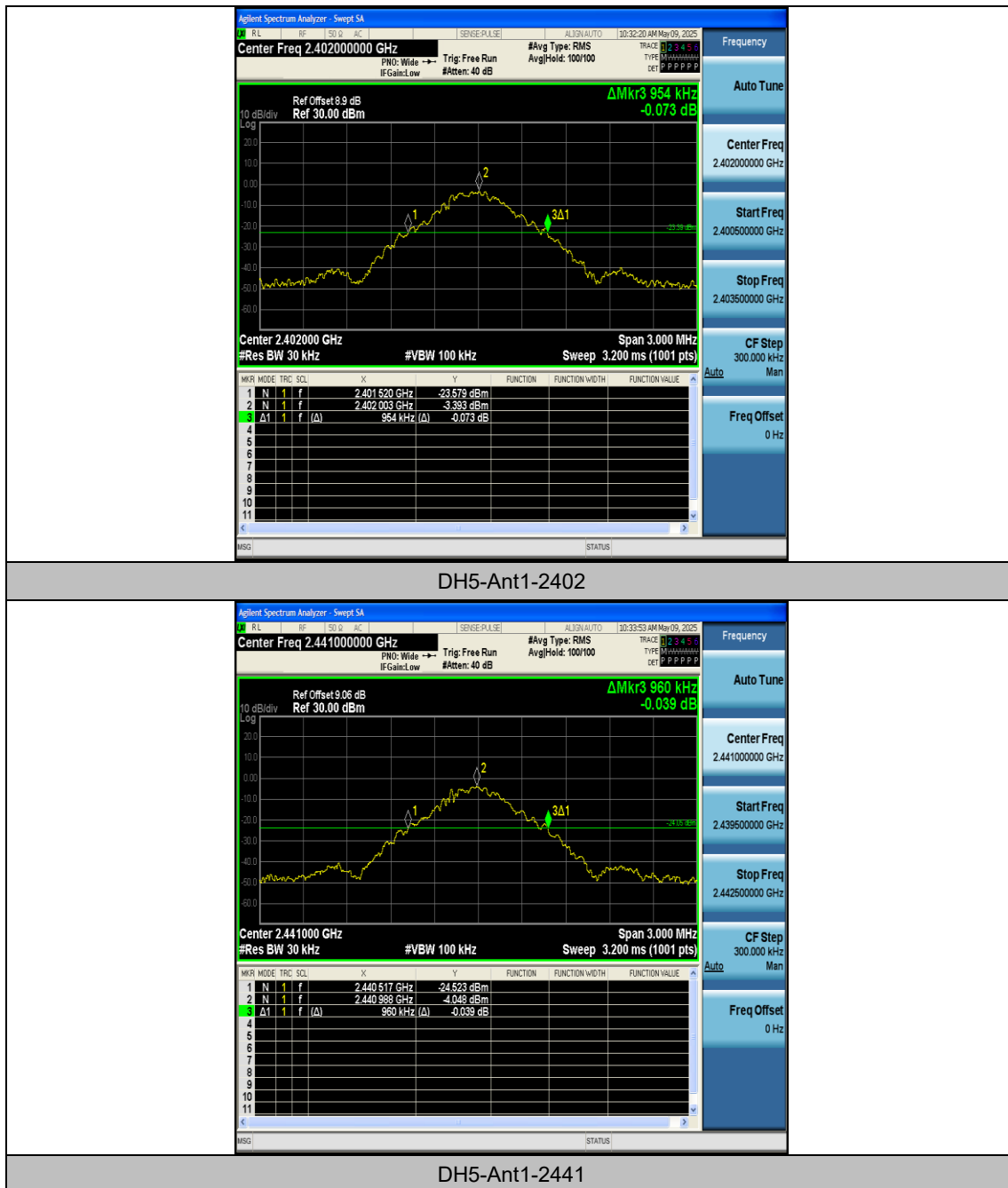
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.954	2401.520	2402.474	---	---
DH5	Ant1	2441	0.960	2440.517	2441.477	---	---
DH5	Ant1	2480	0.954	2479.526	2480.480	---	---
2DH5	Ant1	2402	1.272	2401.358	2402.630	---	---
2DH5	Ant1	2441	1.317	2440.325	2441.642	---	---
2DH5	Ant1	2480	1.335	2479.316	2480.651	---	---

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

Test Graphs

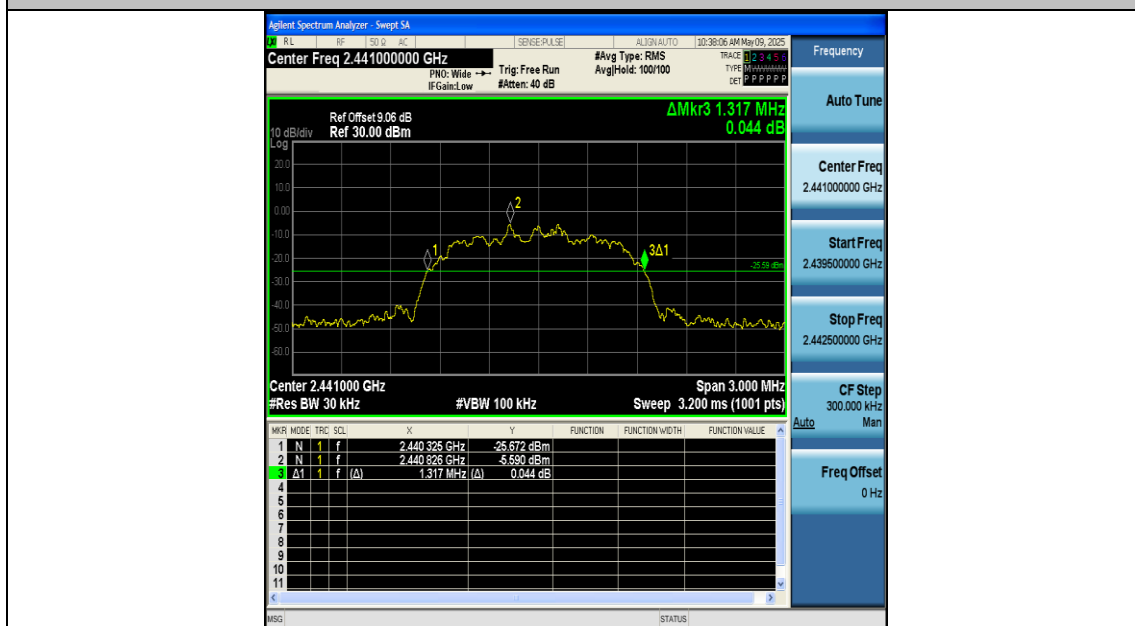




DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



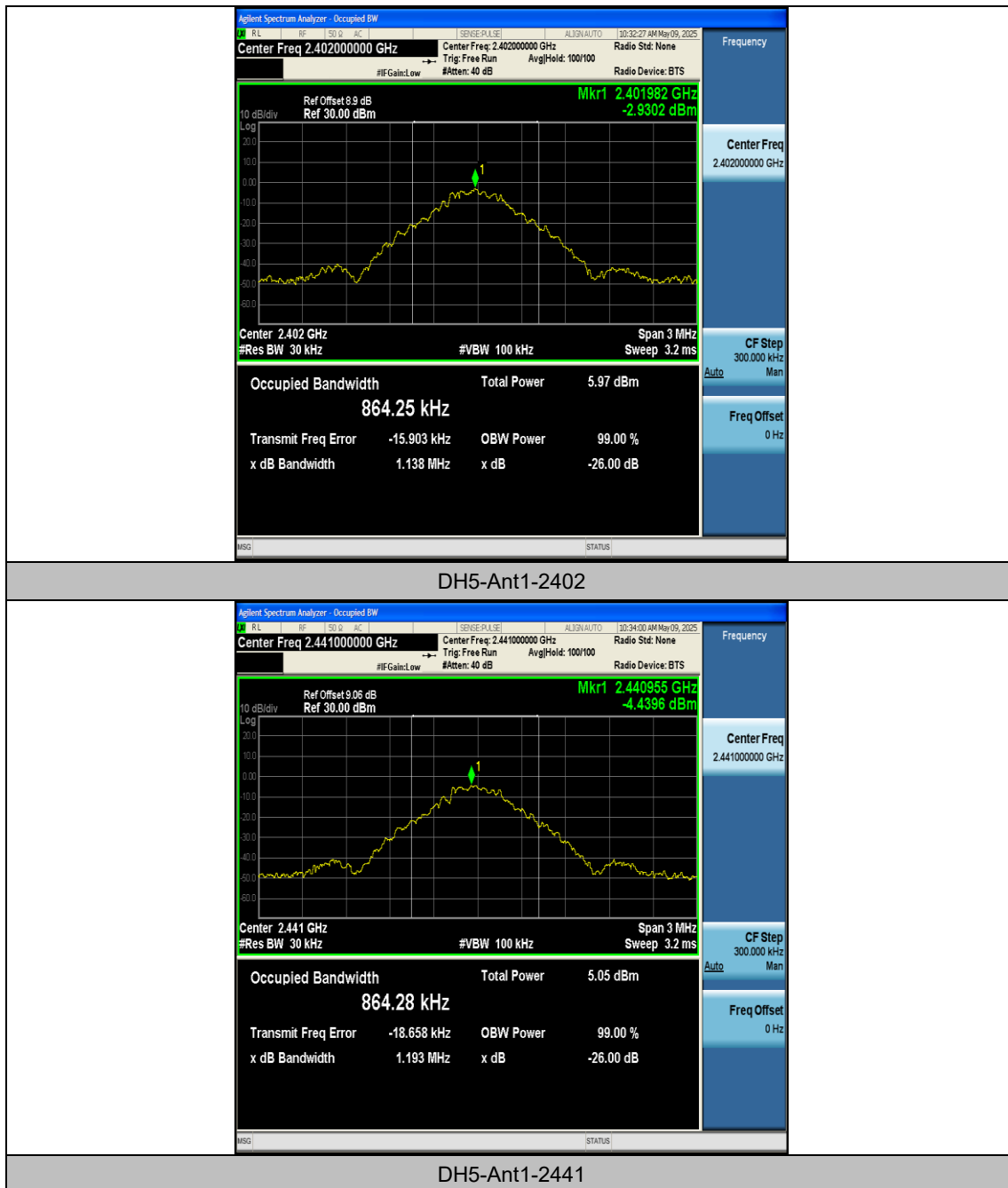
Appendix B: Occupied Channel Bandwidth

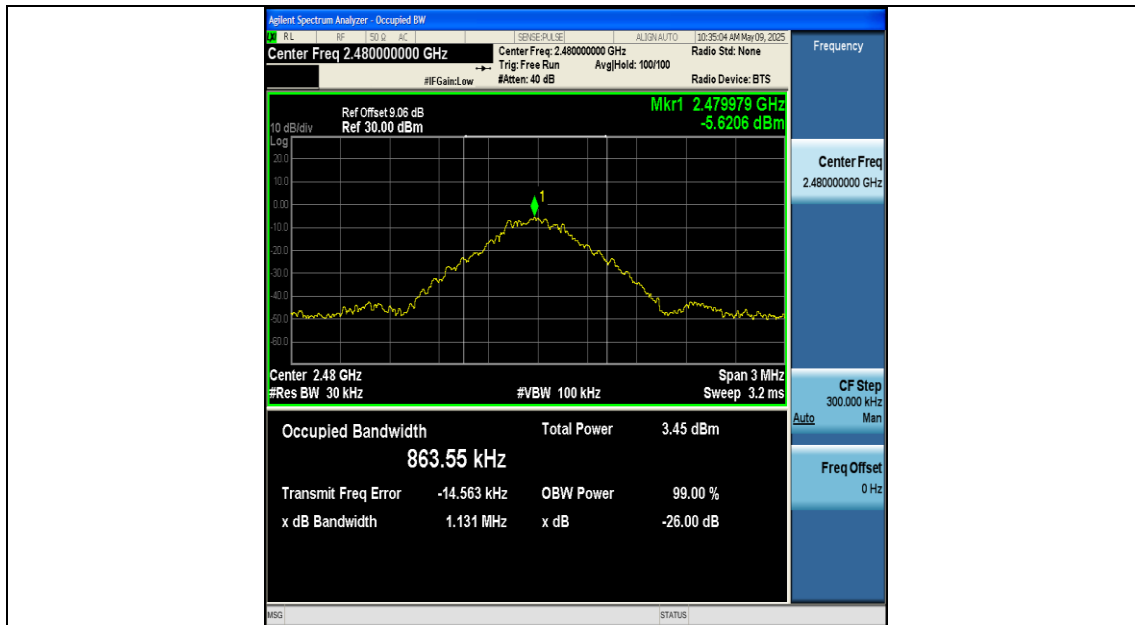
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.86425	2401.5520	2402.4162	---	---
DH5	Ant1	2441	0.86428	2440.5492	2441.4135	---	---
DH5	Ant1	2480	0.86355	2479.5537	2480.4172	---	---
2DH5	Ant1	2402	1.1742	2401.3980	2402.5722	---	---
2DH5	Ant1	2441	1.1809	2440.3966	2441.5775	---	---
2DH5	Ant1	2480	1.1829	2479.3947	2480.5776	---	---

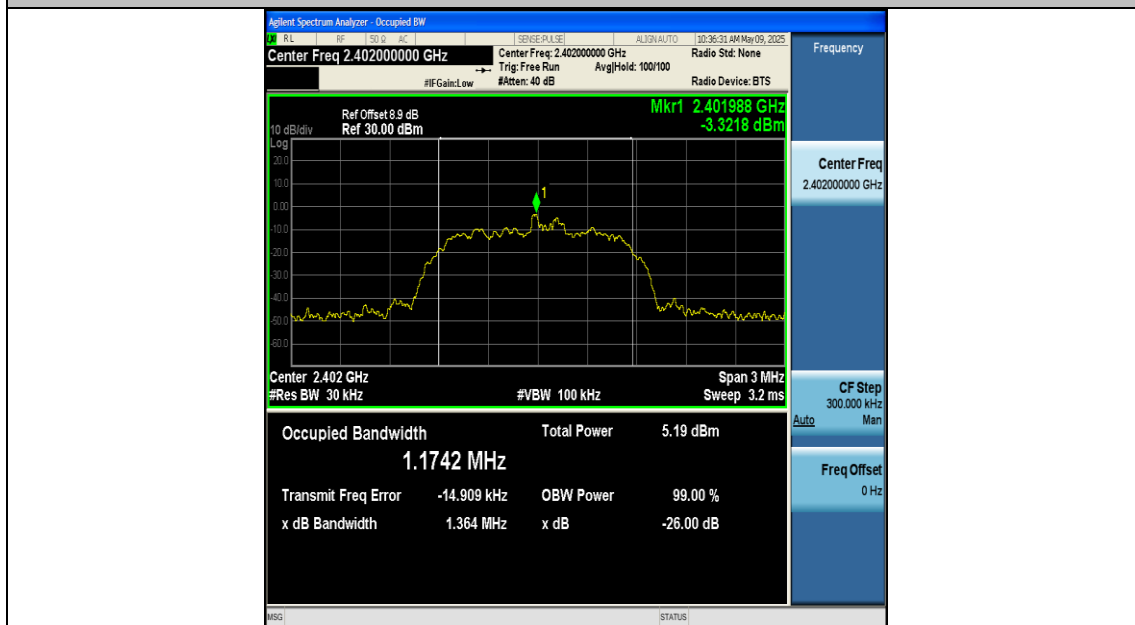
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

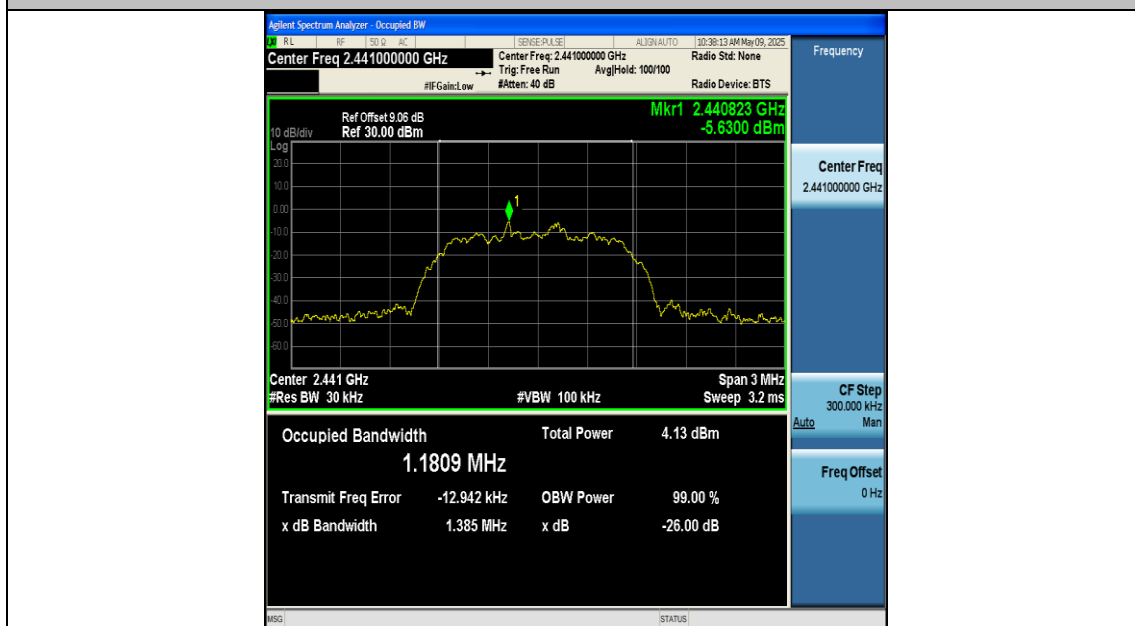




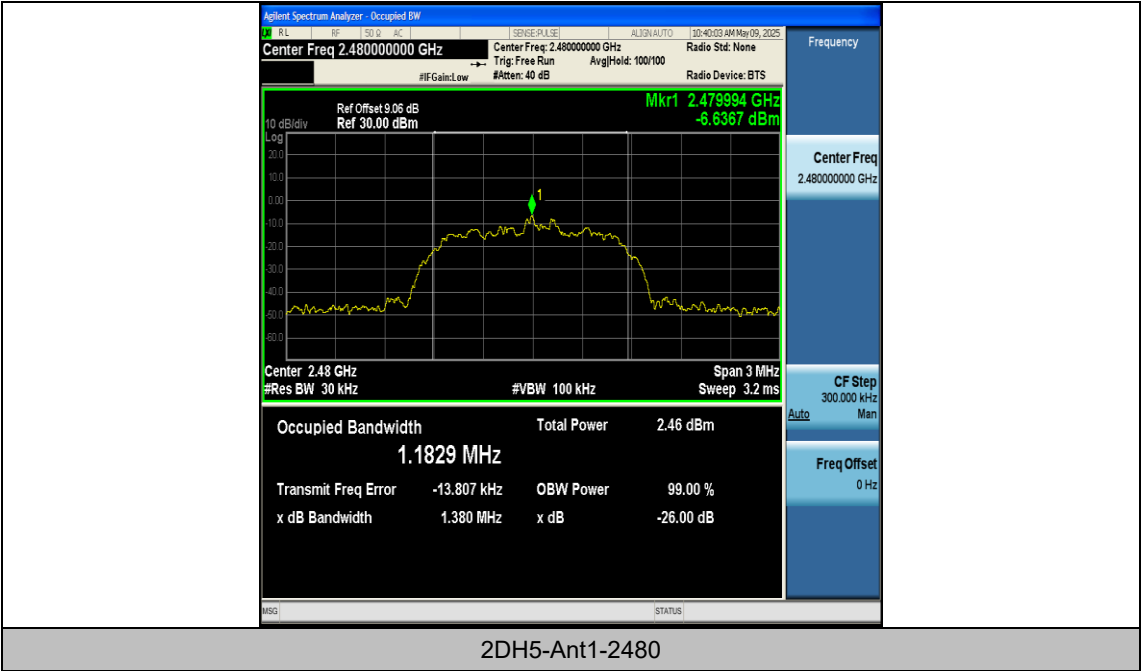
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480

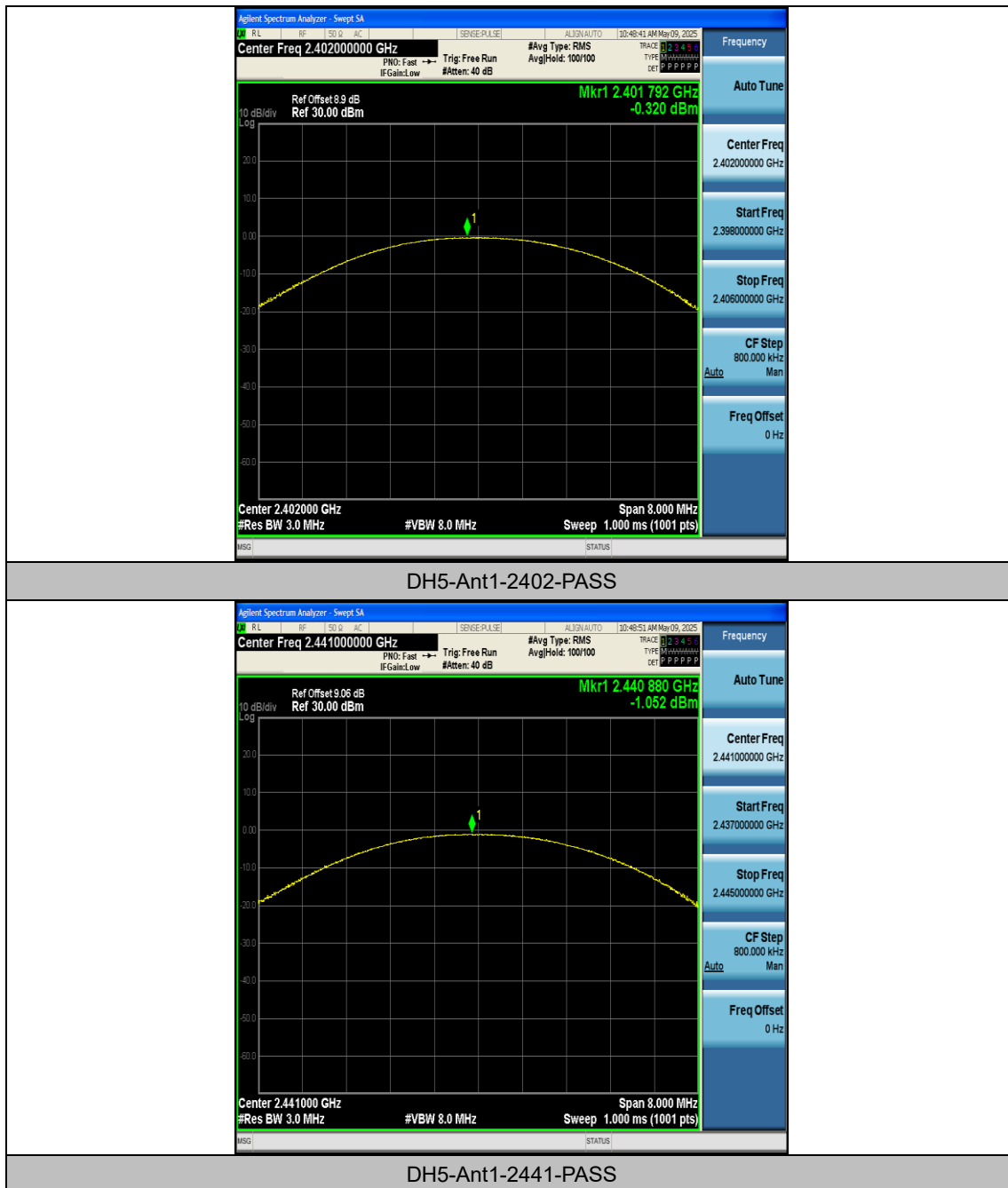
Appendix C: Maximum peak conducted output power

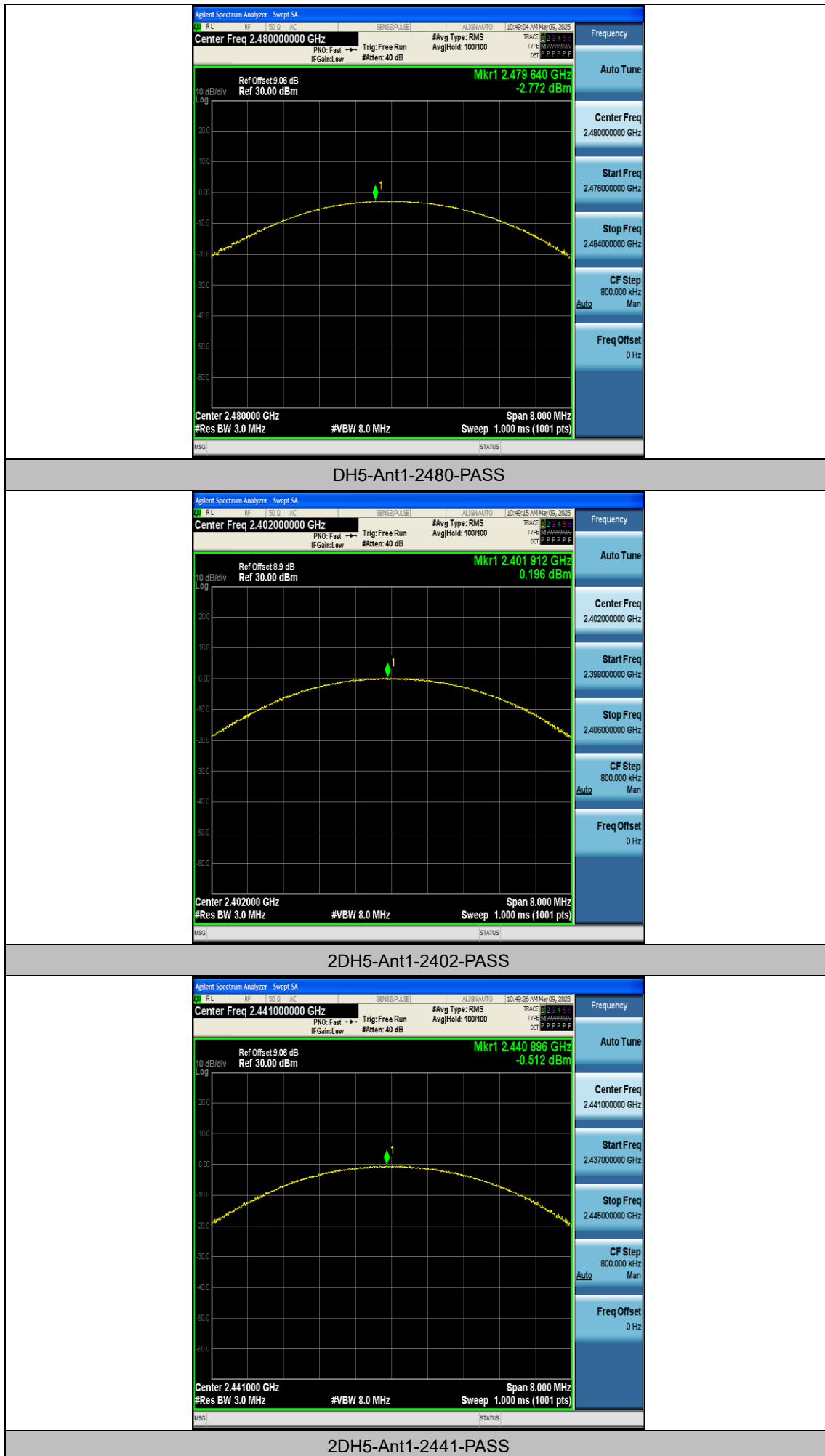
Test Result

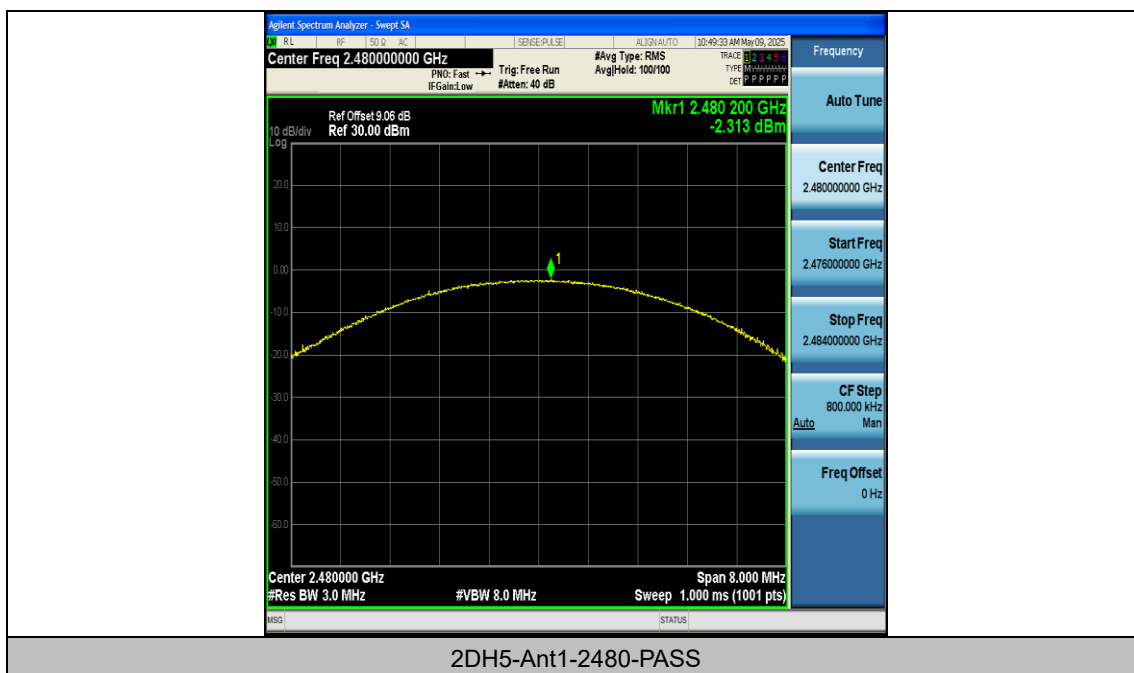
Test Mode	Antenna	Frequency [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
DH5	Ant1	2402	-0.32	≤30	0.00	-0.32	≤36	PASS
DH5	Ant1	2441	-1.05	≤30	0.00	-1.05	≤36	PASS
DH5	Ant1	2480	-2.77	≤30	0.00	-2.77	≤36	PASS
2DH5	Ant1	2402	0.20	≤20.97	0.00	0.20	≤36	PASS
2DH5	Ant1	2441	-0.51	≤20.97	0.00	-0.51	≤36	PASS
2DH5	Ant1	2480	-2.31	≤20.97	0.00	-2.31	≤36	PASS

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

Test Graphs







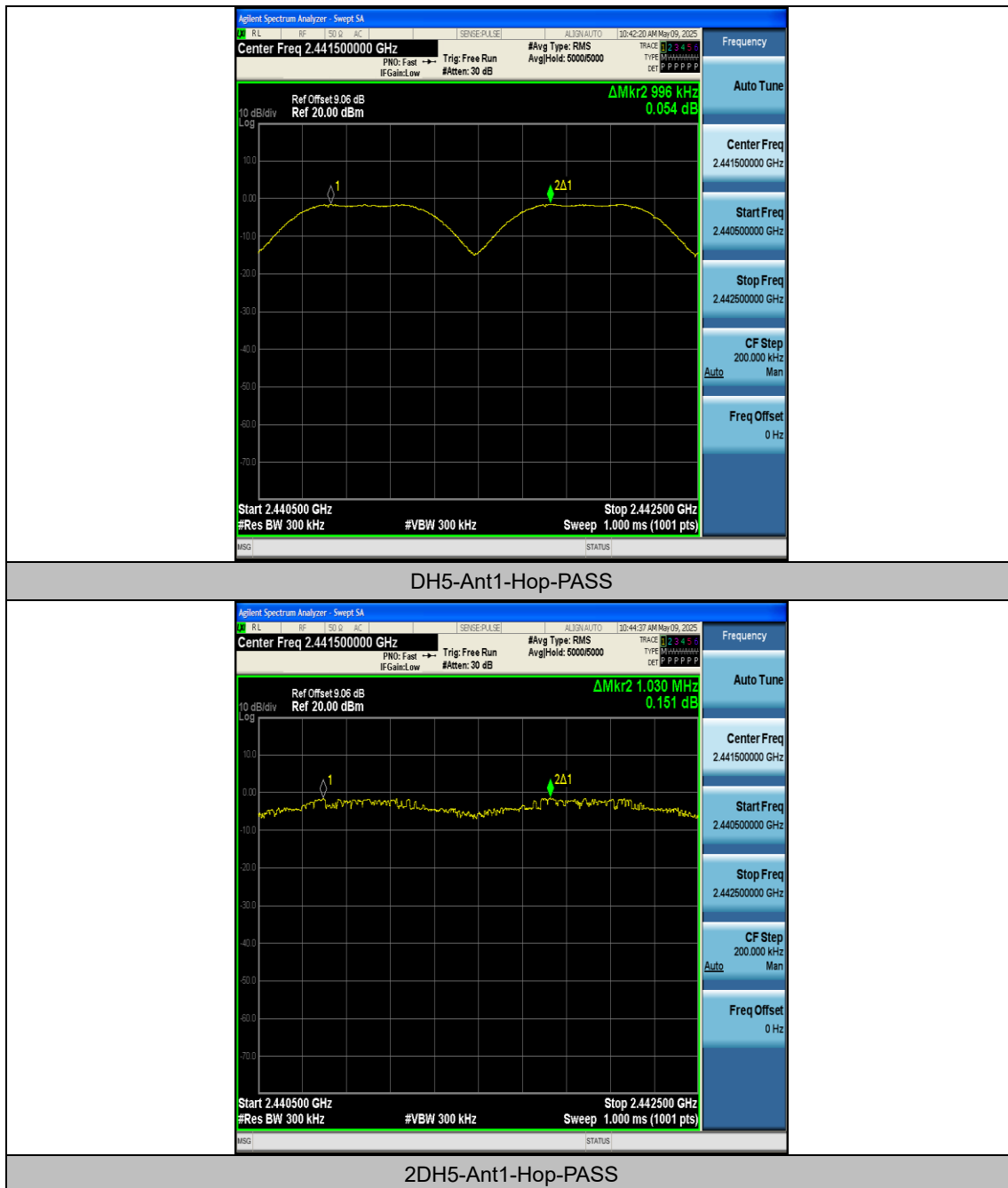
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.996	≥0.960	PASS
2DH5	Ant1	Hop	1.03	≥0.890	PASS

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

Test Graphs



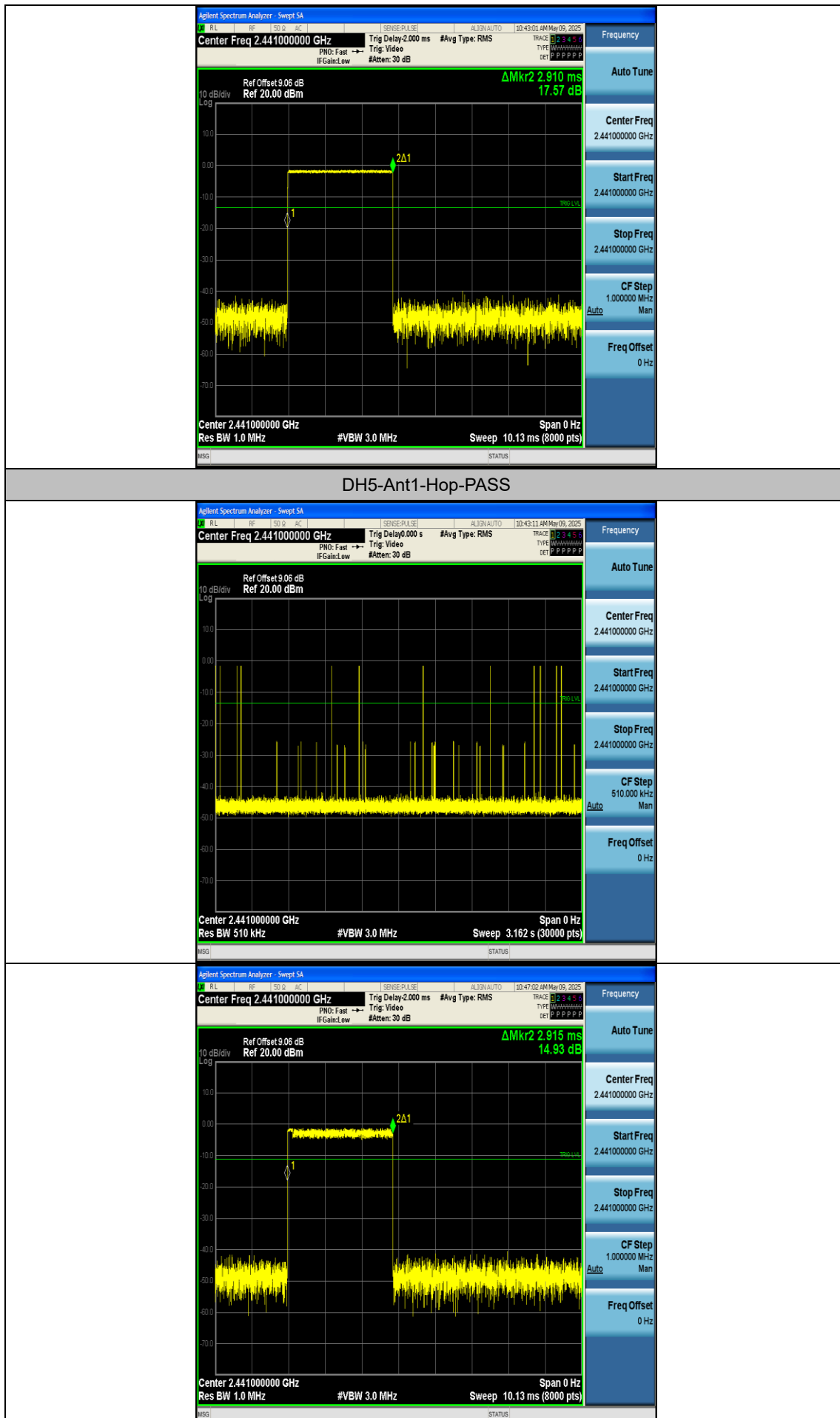
Appendix E: Time of occupancy

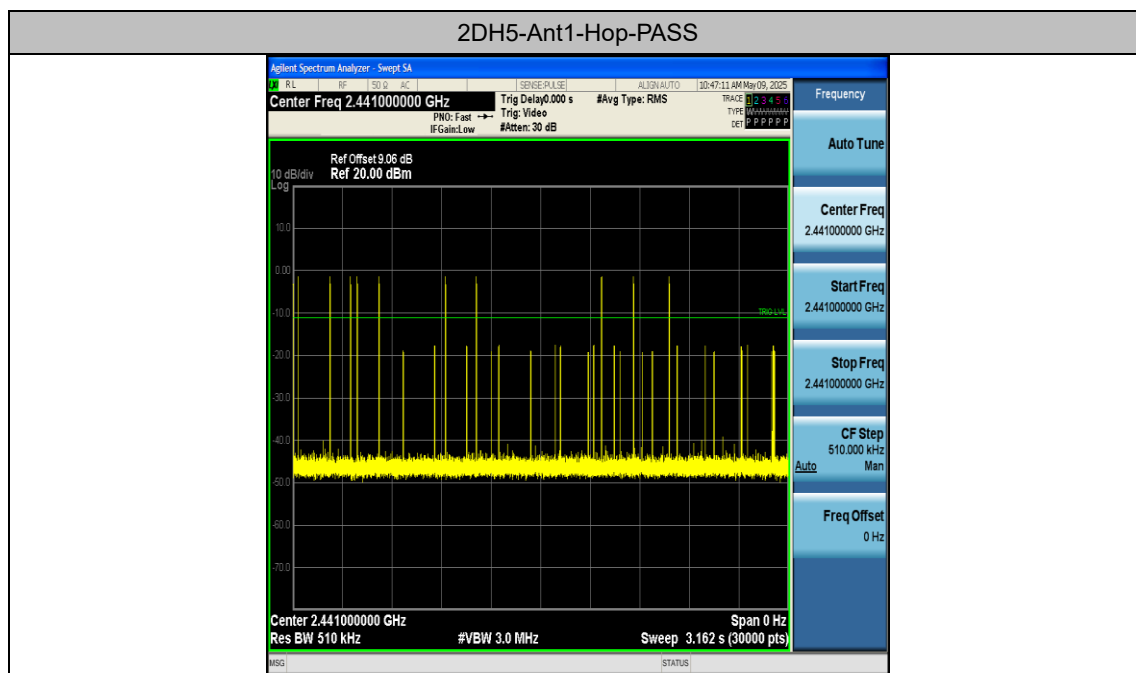
Test Result

Test Mode	Antenna	Frequency [MHz]	BurstWidth [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.910	120	0.349	≤0.4	PASS
2DH5	Ant1	Hop	2.915	110	0.321	≤0.4	PASS

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

Test Graphs





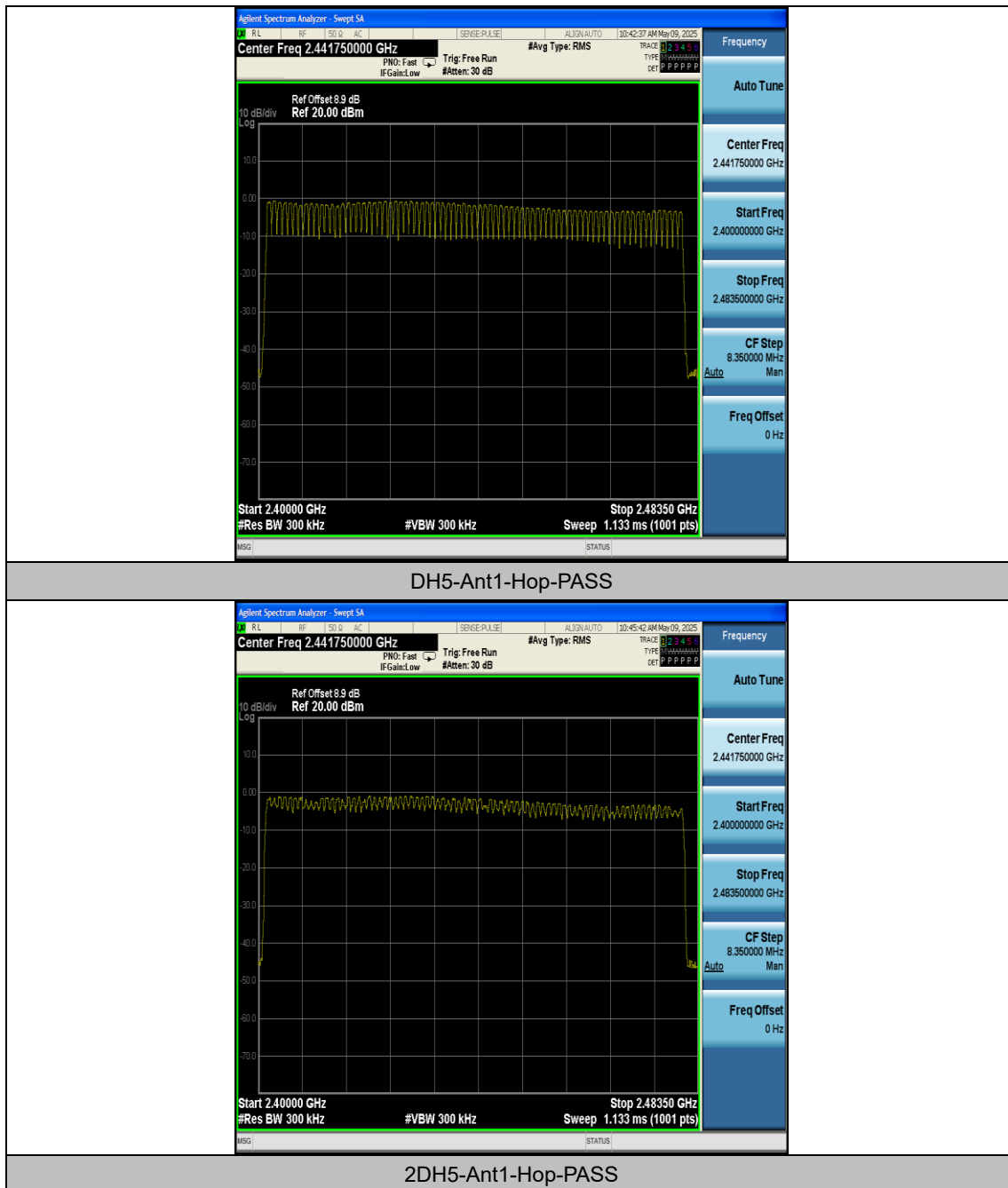
Appendix F: Number of hopping channels

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



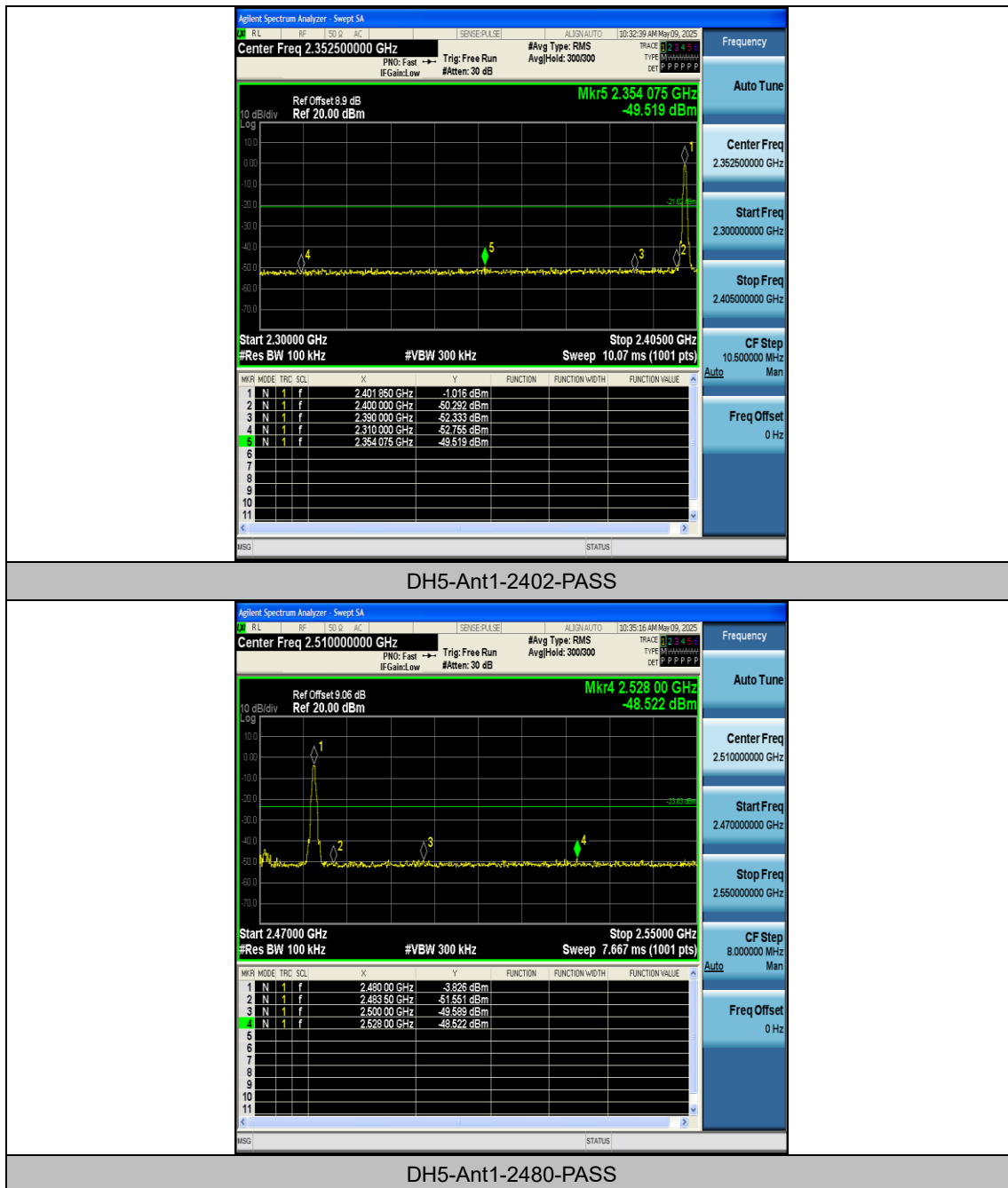
Appendix G: Band edge measurements

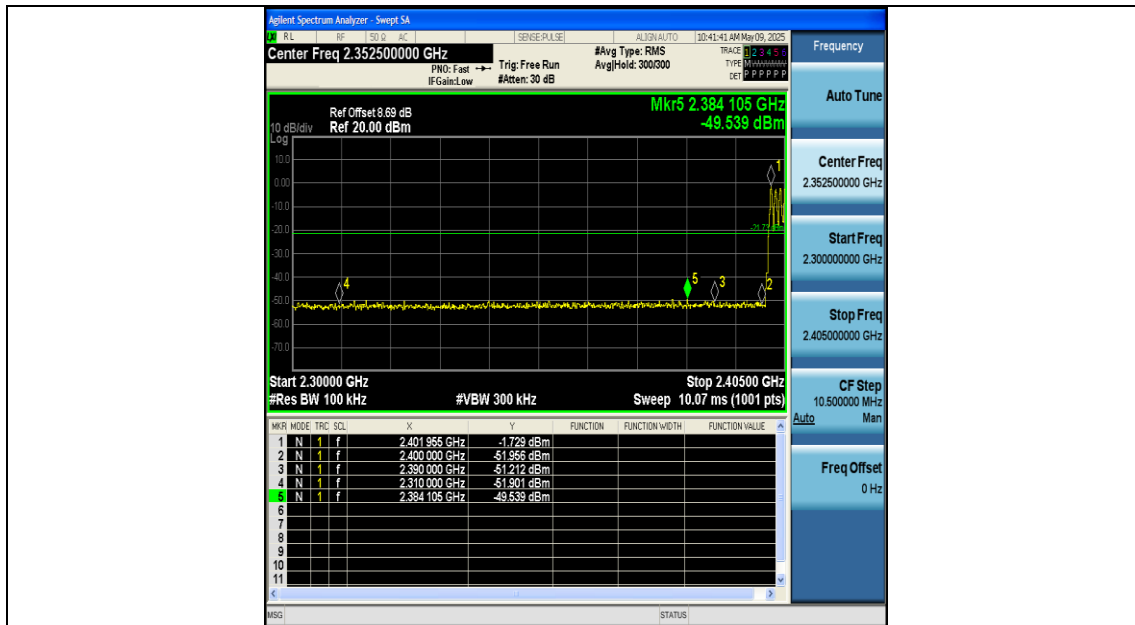
Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.02	-49.52	≤-21.02	PASS
DH5	Ant1	High	2480	-3.83	-48.52	≤-23.83	PASS
DH5	Ant1	Low	Hop_2402	-1.73	-49.54	≤-21.73	PASS
DH5	Ant1	High	Hop_2480	-3.69	-48.72	≤-23.69	PASS
2DH5	Ant1	Low	2402	-1.61	-48.98	≤-21.61	PASS
2DH5	Ant1	High	2480	-3.62	-48.24	≤-23.62	PASS
2DH5	Ant1	Low	Hop_2402	-4.17	-49.62	≤-24.17	PASS
2DH5	Ant1	High	Hop_2480	-6.81	-48.5	≤-26.81	PASS

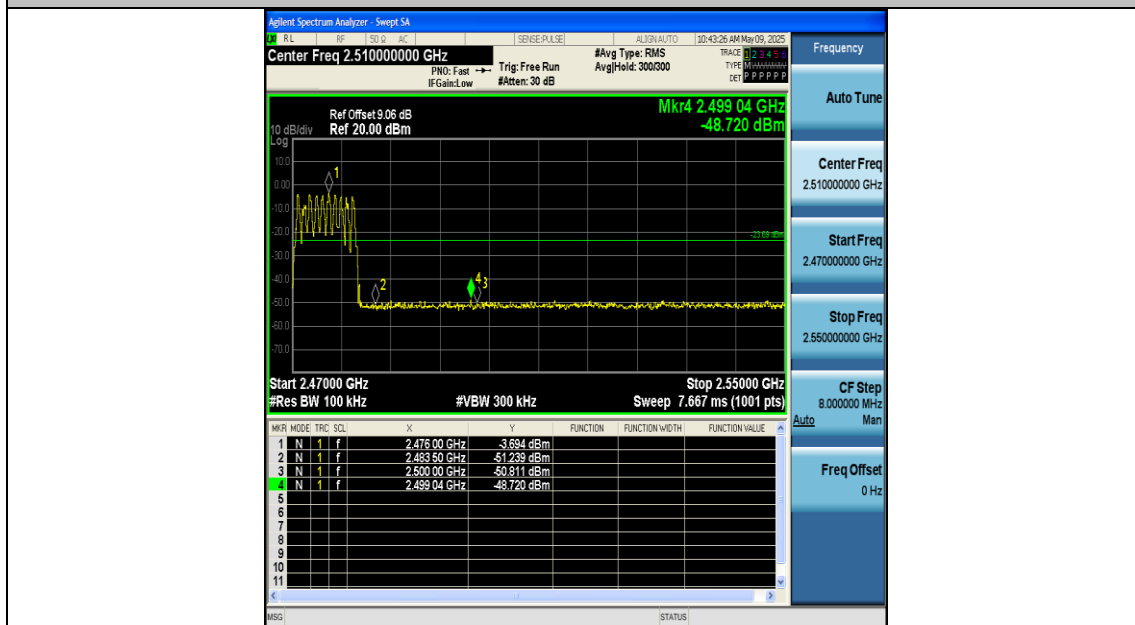
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

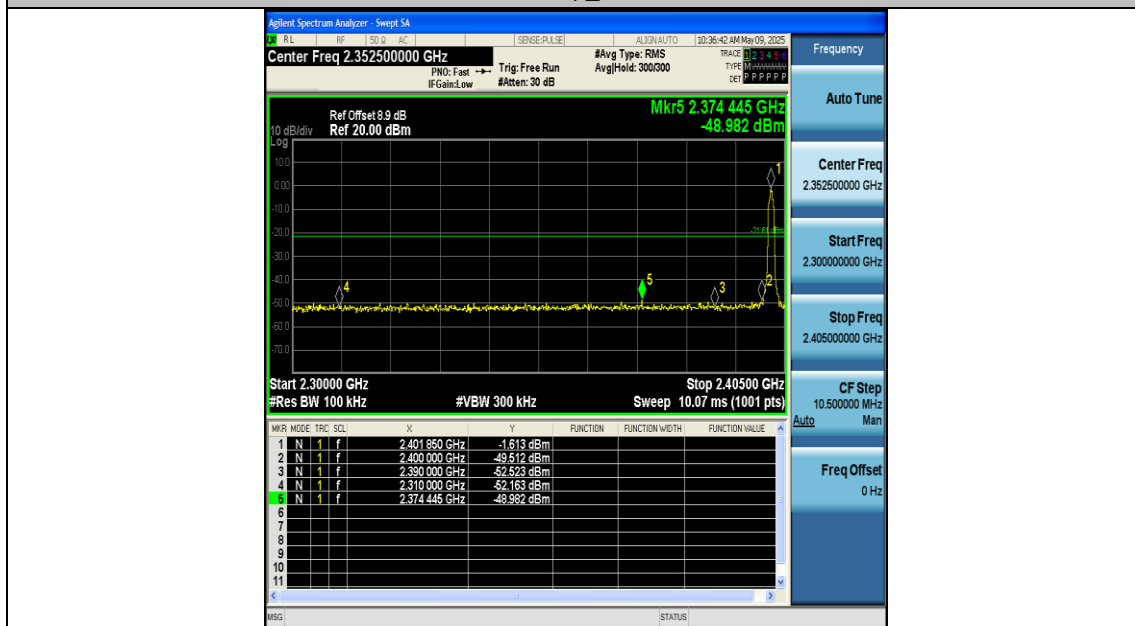




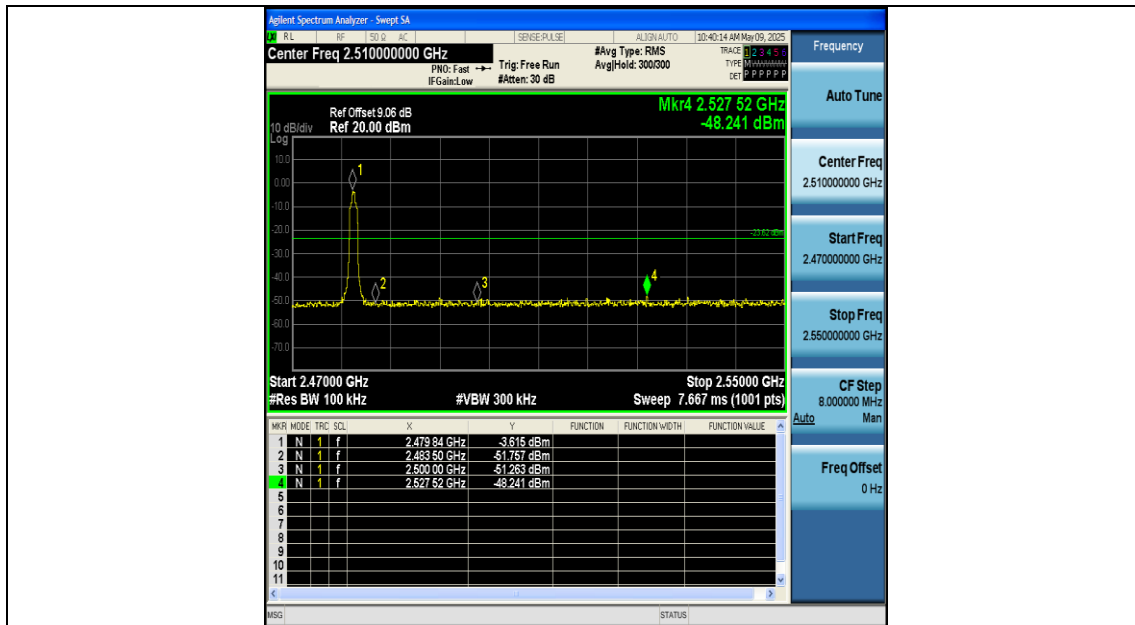
DH5-Ant1-Hop_2402-PASS



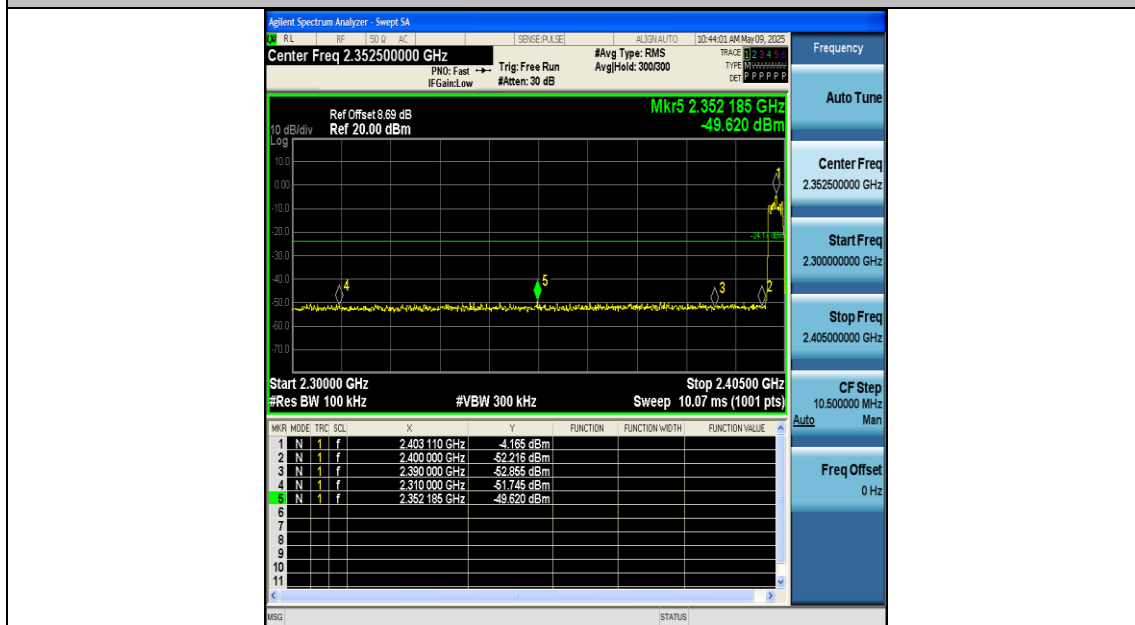
DH5-Ant1-Hop_2480-PASS



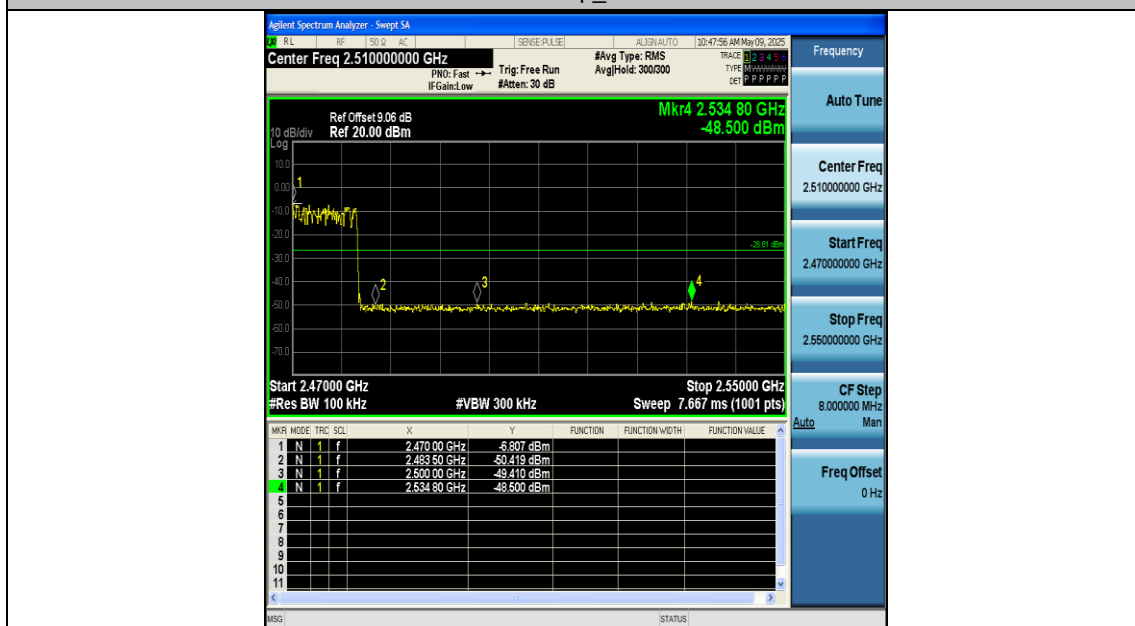
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS

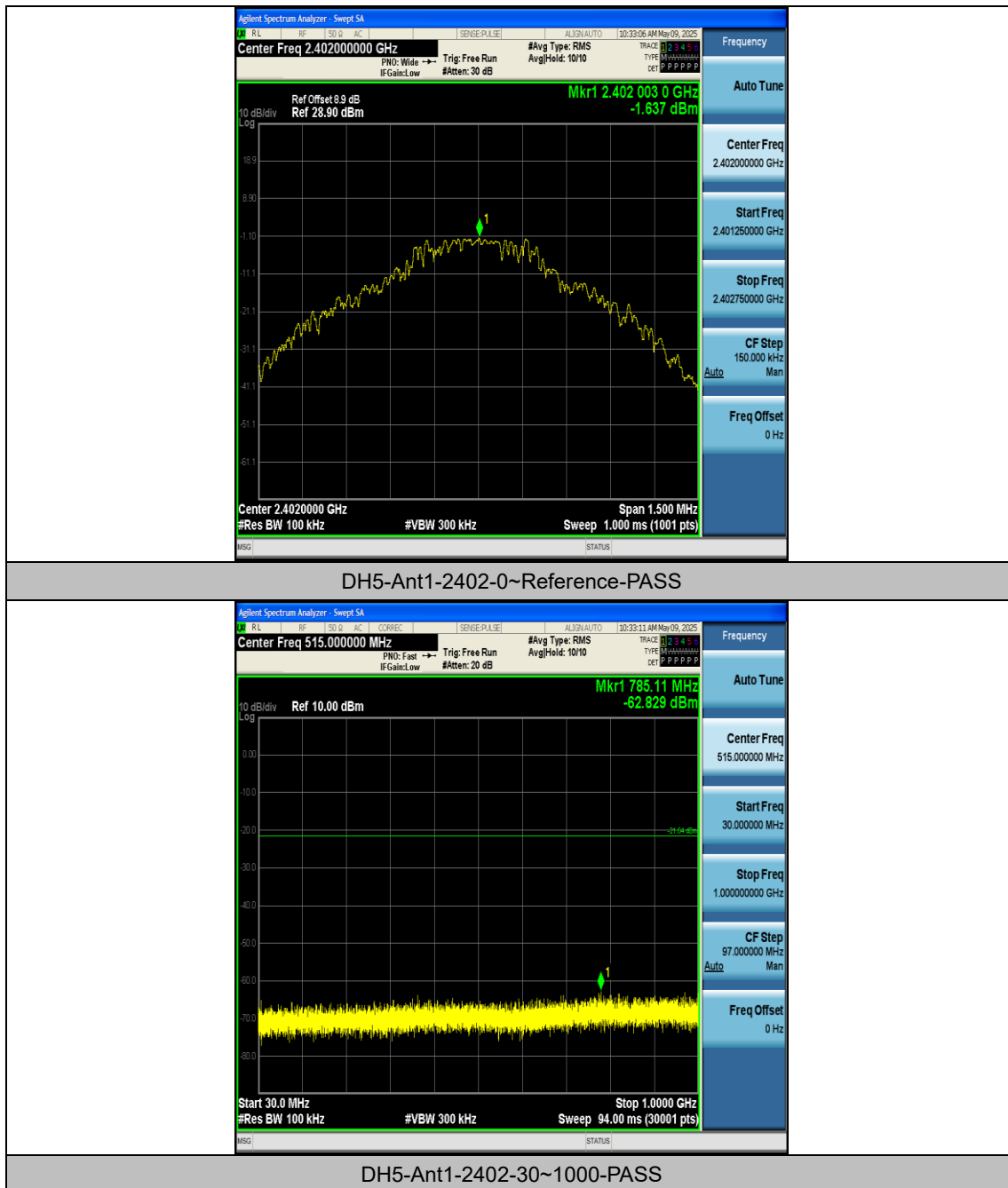
Appendix H: Conducted Spurious Emission

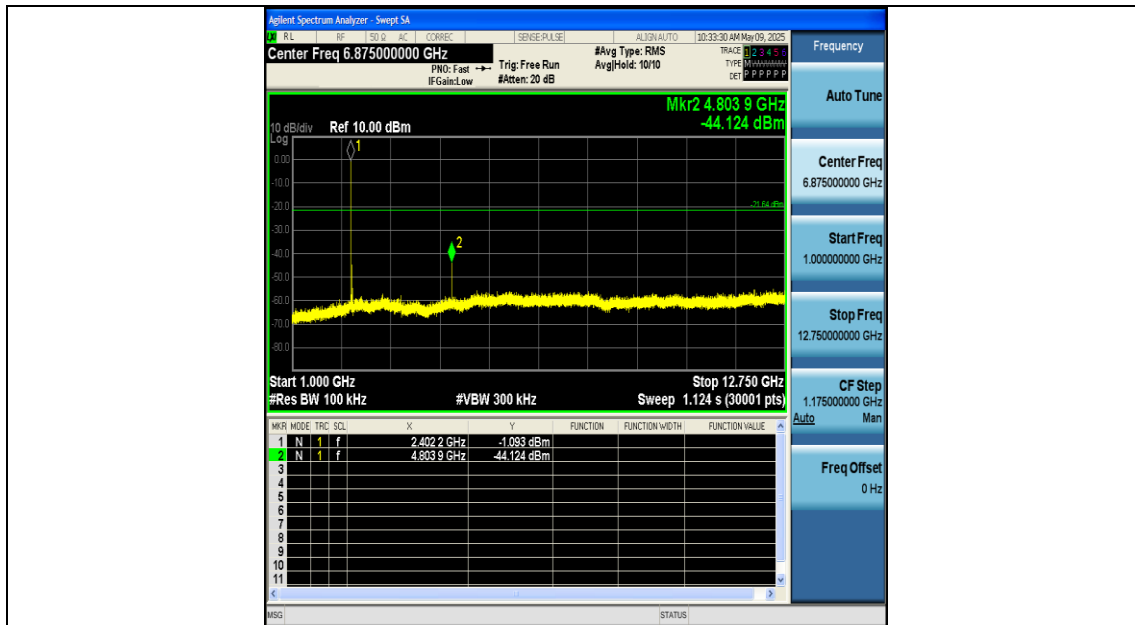
Test Result

Test Mode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.64	-1.64	---	PASS
DH5	Ant1	2402	30~1000	-1.64	-62.83	≤-21.64	PASS
DH5	Ant1	2402	1000~12750	-1.64	-44.12	≤-21.64	PASS
DH5	Ant1	2441	0~Reference	-2.63	-2.63	---	PASS
DH5	Ant1	2441	30~1000	-2.63	-62.74	≤-22.63	PASS
DH5	Ant1	2441	1000~12750	-2.63	-44.21	≤-22.63	PASS
DH5	Ant1	2480	0~Reference	-4.17	-4.17	---	PASS
DH5	Ant1	2480	30~1000	-4.17	-62.12	≤-24.17	PASS
DH5	Ant1	2480	1000~12750	-4.17	-46.79	≤-24.17	PASS
2DH5	Ant1	2402	0~Reference	-1.59	-1.59	---	PASS
2DH5	Ant1	2402	30~1000	-1.59	-62.67	≤-21.59	PASS
2DH5	Ant1	2402	1000~12750	-1.59	-43.64	≤-21.59	PASS
2DH5	Ant1	2441	0~Reference	-3.45	-3.45	---	PASS
2DH5	Ant1	2441	30~1000	-3.45	-62.16	≤-23.45	PASS
2DH5	Ant1	2441	1000~12750	-3.45	-50.07	≤-23.45	PASS
2DH5	Ant1	2480	0~Reference	-7.41	-7.41	---	PASS
2DH5	Ant1	2480	30~1000	-7.41	-63.1	≤-27.41	PASS
2DH5	Ant1	2480	1000~12750	-7.41	-46.44	≤-27.41	PASS

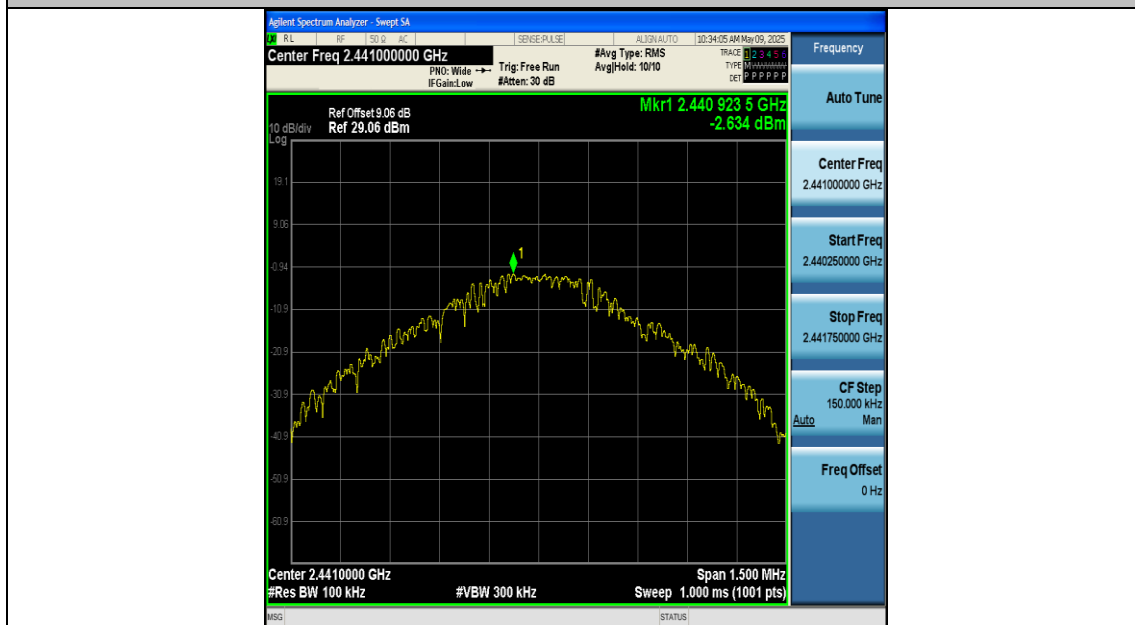
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

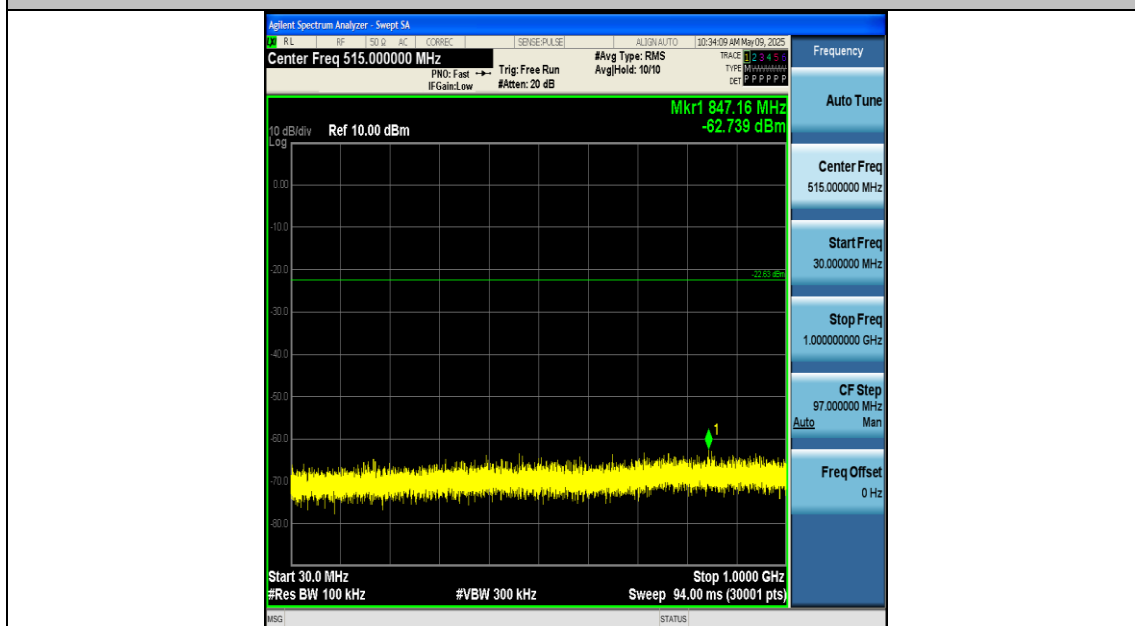




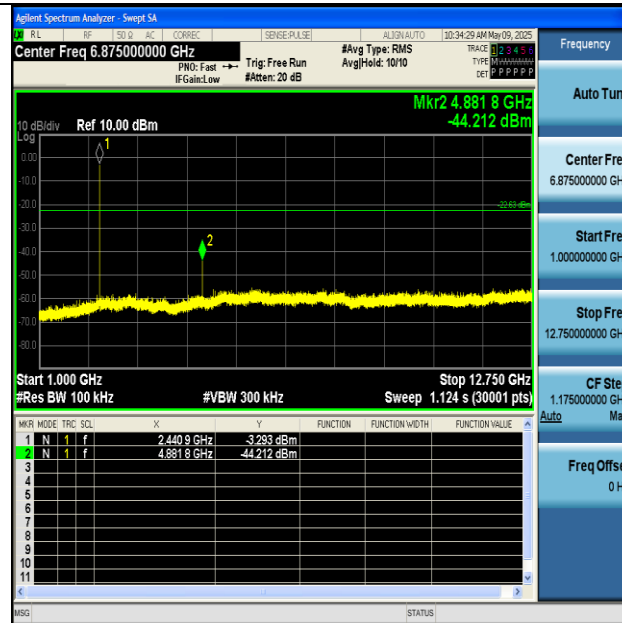
DH5-Ant1-2402-1000~12750-PASS



DH5-Ant1-2441-0~Reference-PASS



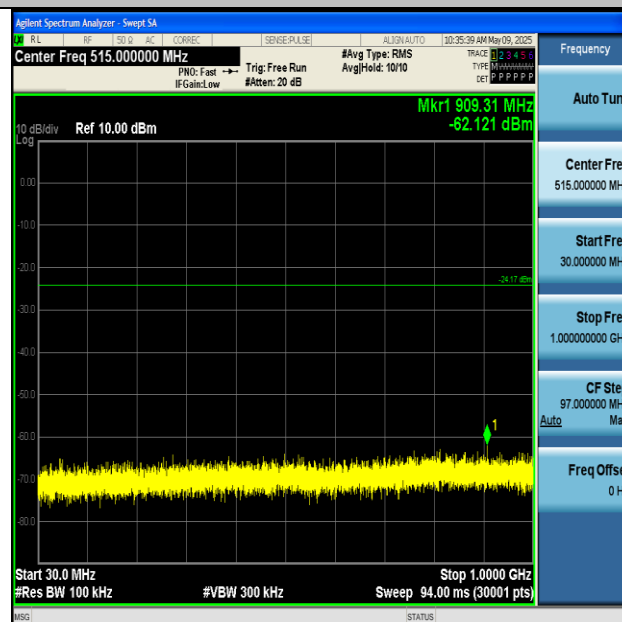
DH5-Ant1-2441-30~1000-PASS



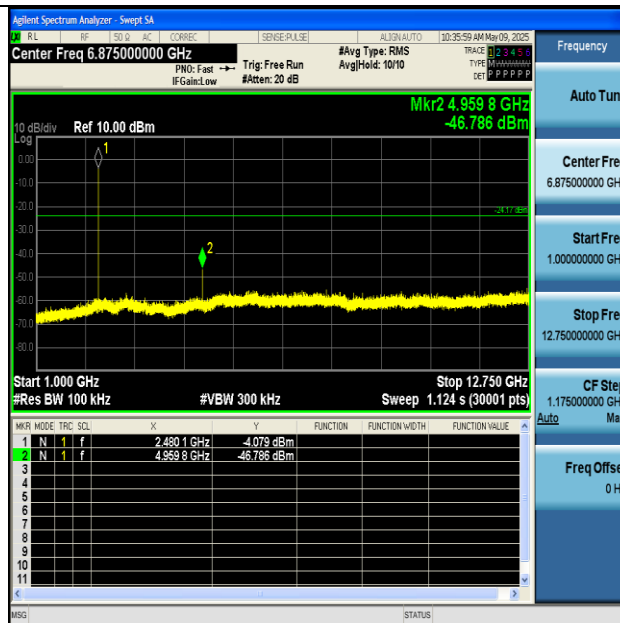
DH5-Ant1-2441-1000~12750-PASS



DH5-Ant1-2480-0~Reference-PASS



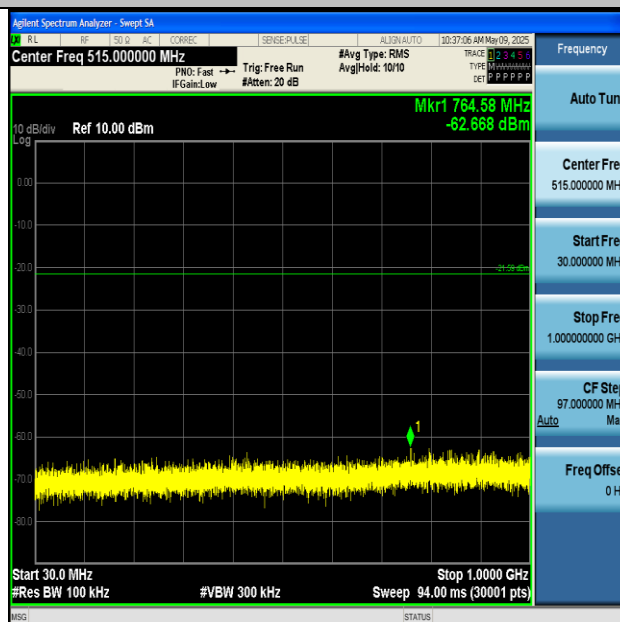
DH5-Ant1-2480-30~1000-PASS



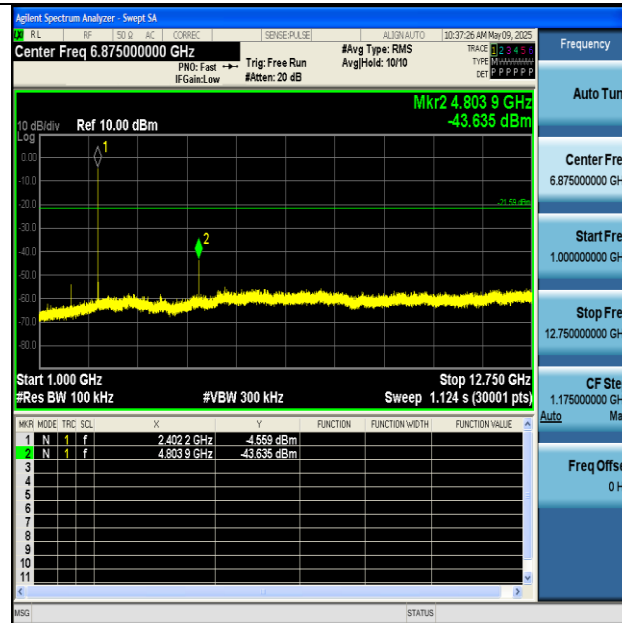
DH5-Ant1-2480-1000~12750-PASS



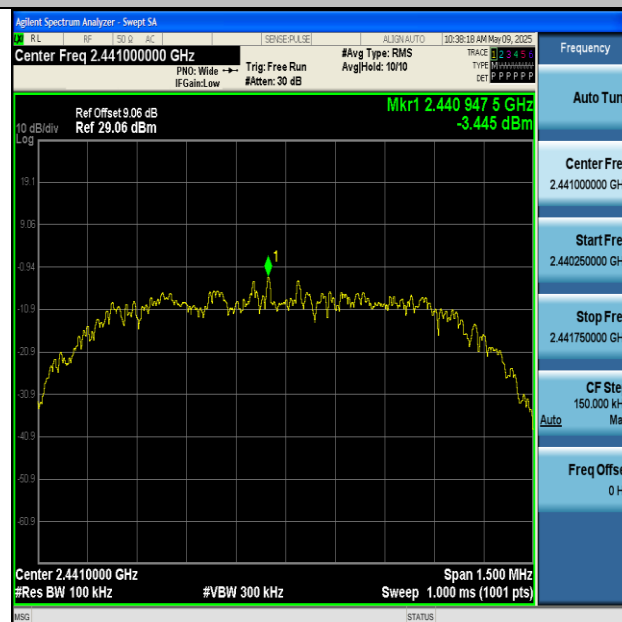
2DH5-Ant1-2402-0~Reference-PASS



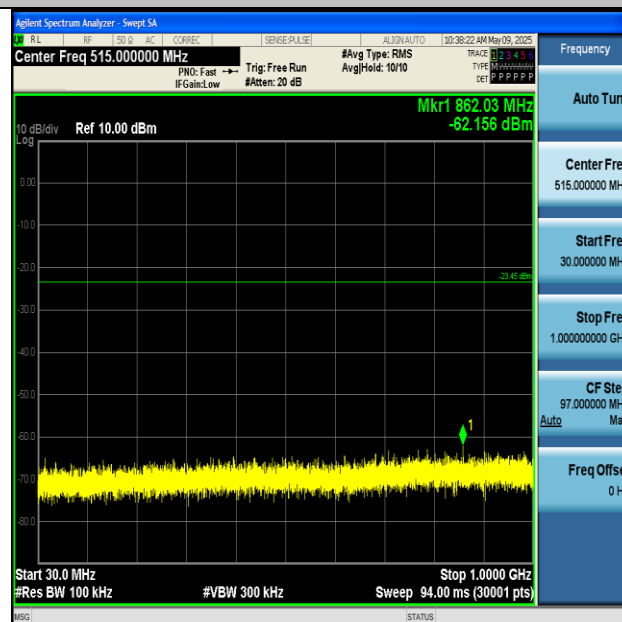
2DH5-Ant1-2402-30~1000-PASS



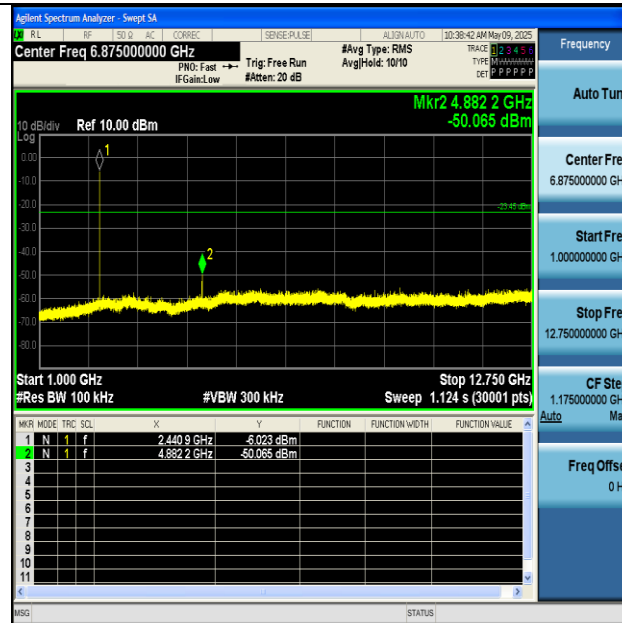
2DH5-Ant1-2402-1000~12750-PASS



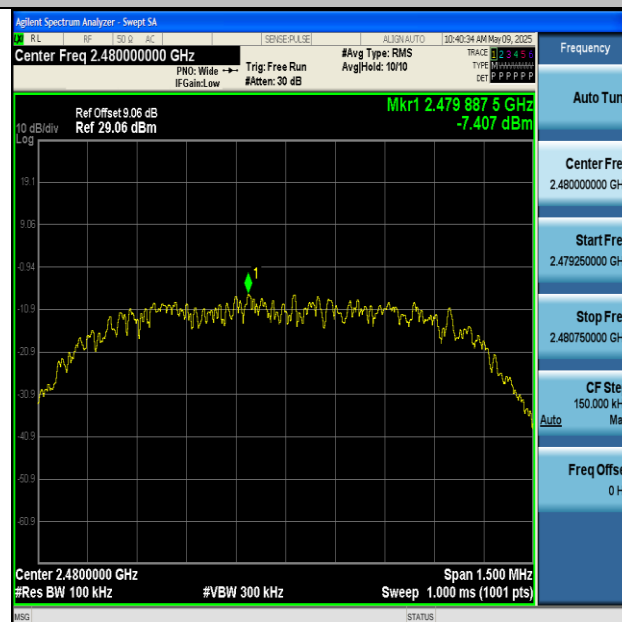
2DH5-Ant1-2441-0~Reference-PASS



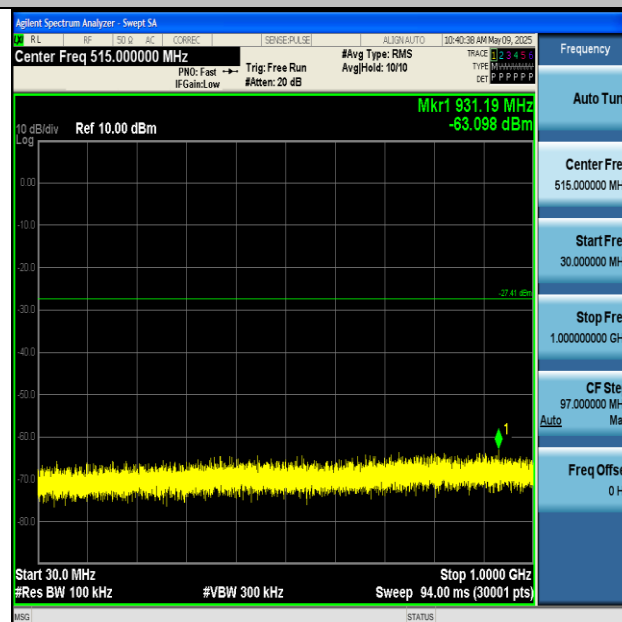
2DH5-Ant1-2441-30~1000-PASS



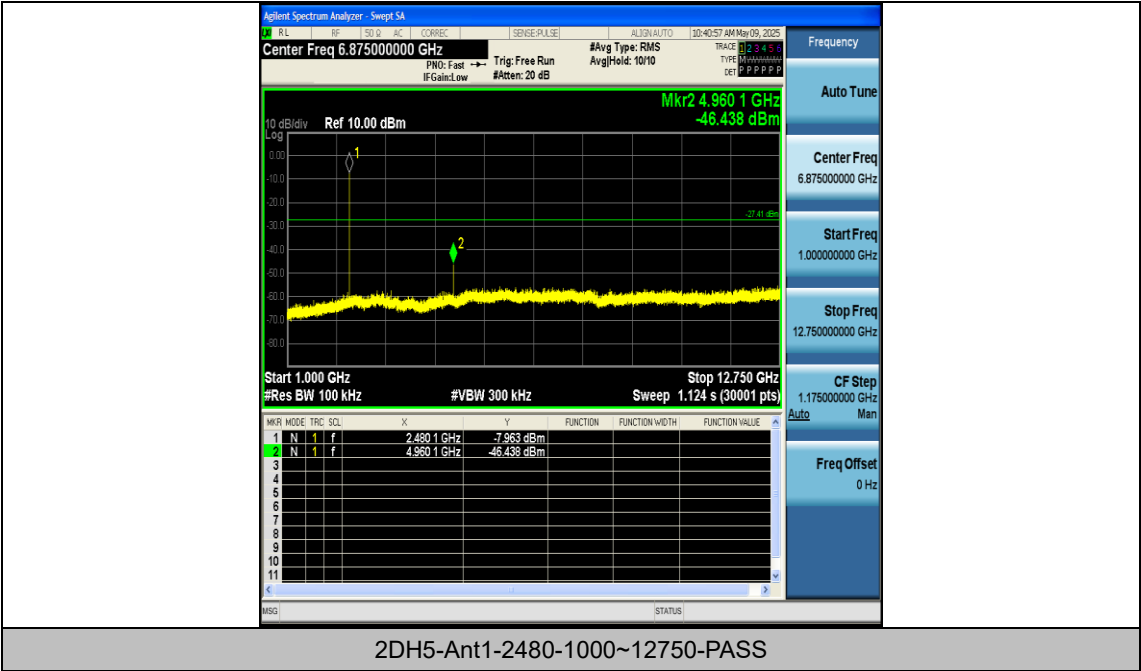
2DH5-Ant1-2441-1000~12750-PASS



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



2DH5-Ant1-2480-30~1000-PASS



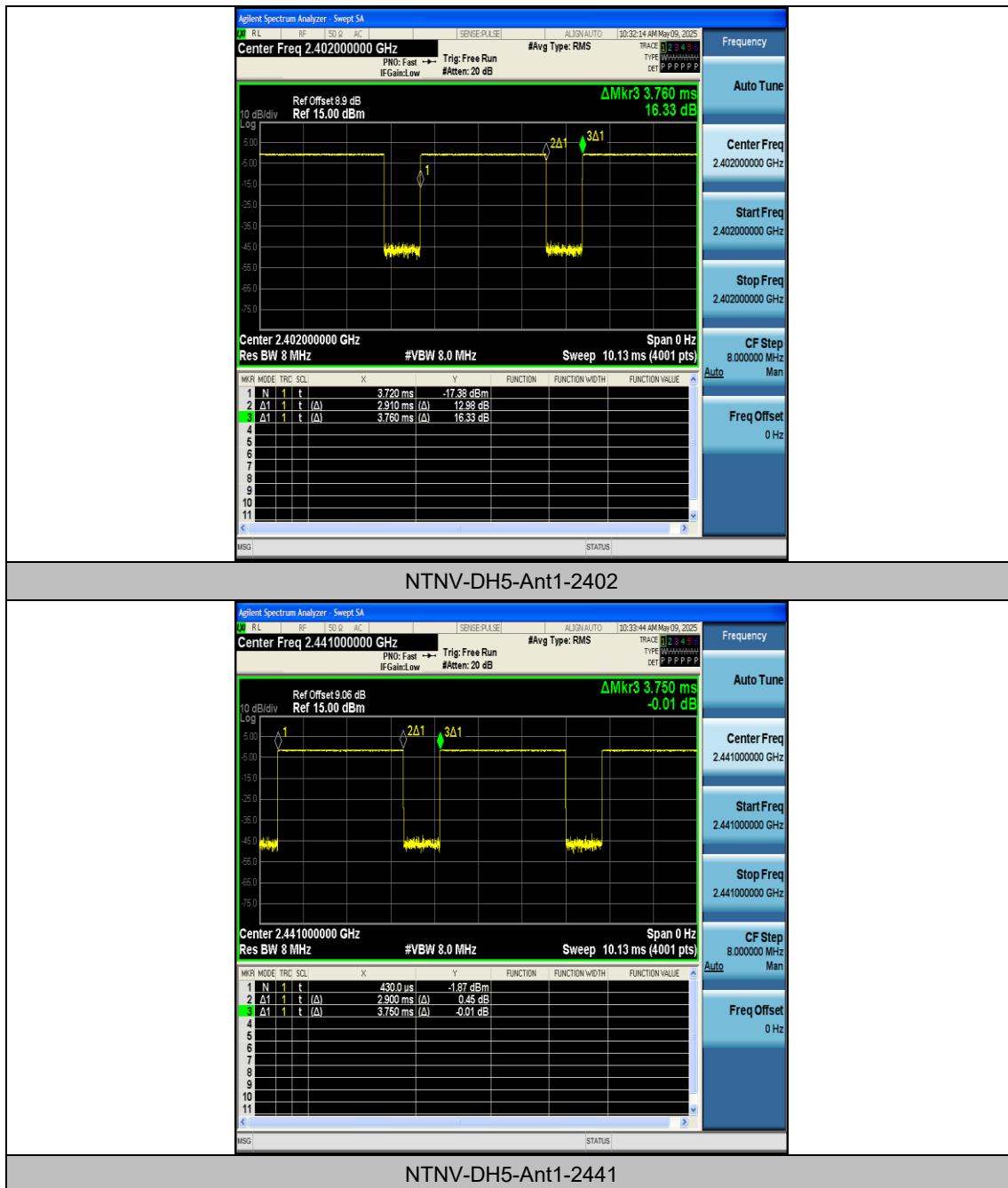
Appendix I: Duty Cycle

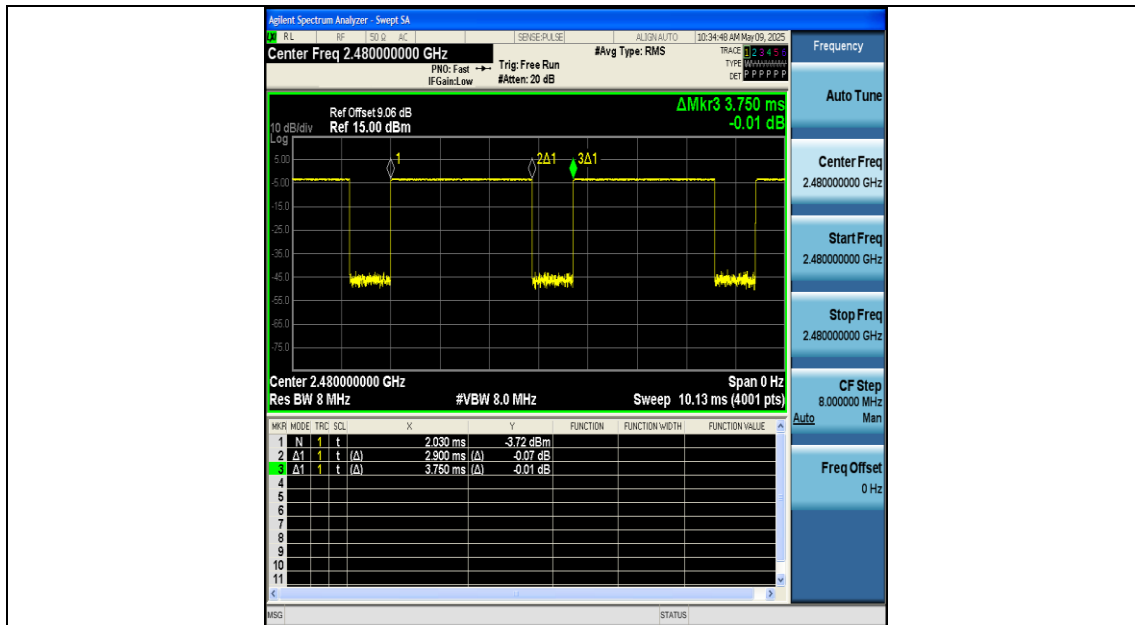
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.91	3.76	77.39	1.11
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	3.75	77.60	1.10

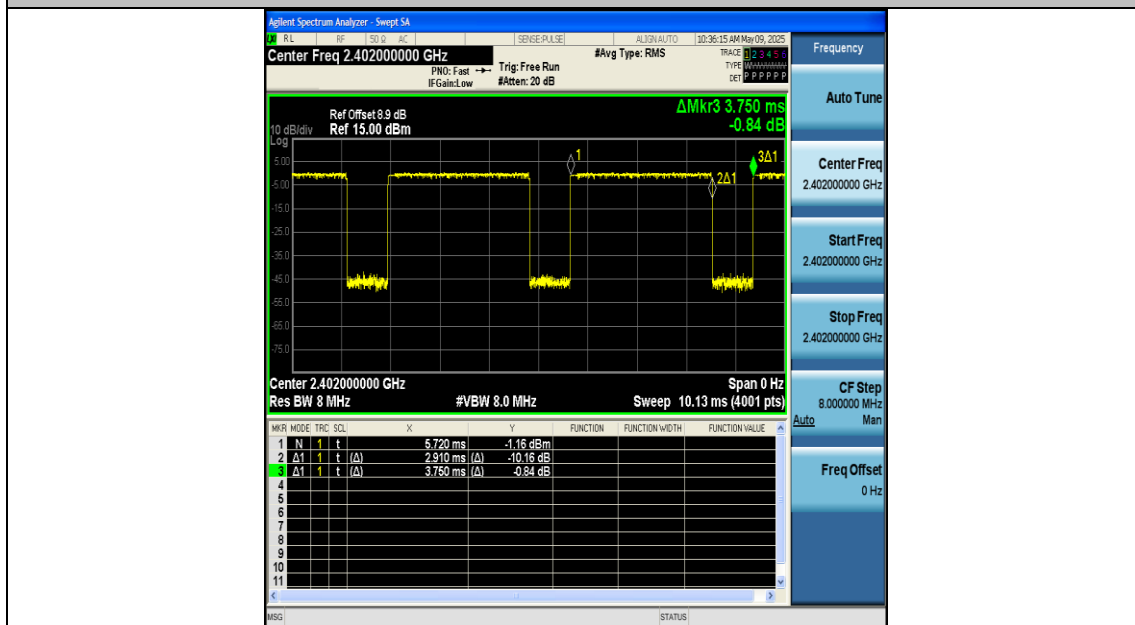
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

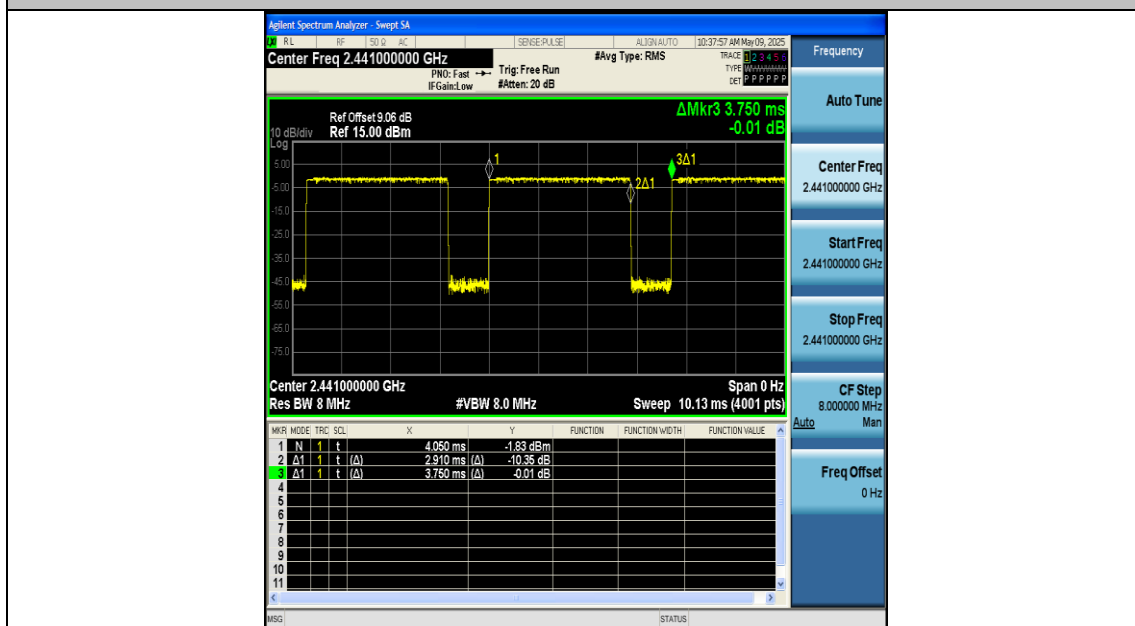




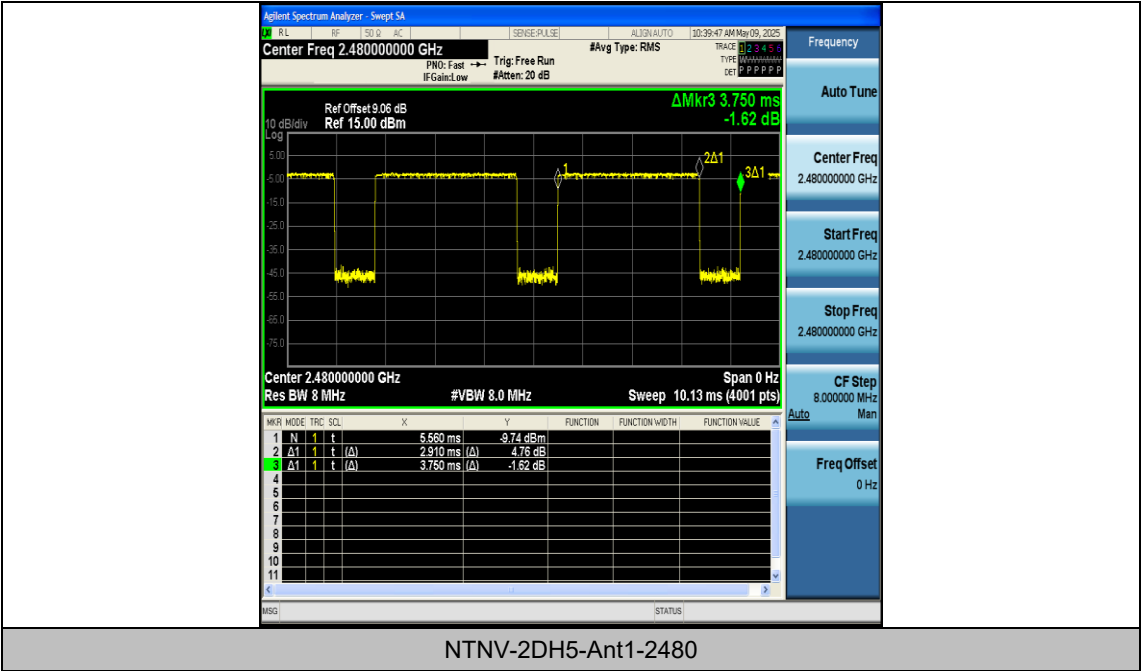
NTNV-DH5-Ant1-2480



NTNV-2DH5-Ant1-2402



NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480