

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

Product Name: Bluetooth headset

Trade Mark: N/A

Test Model: Q10

FCC ID: 2BGLY-Q10

Environmental Conditions

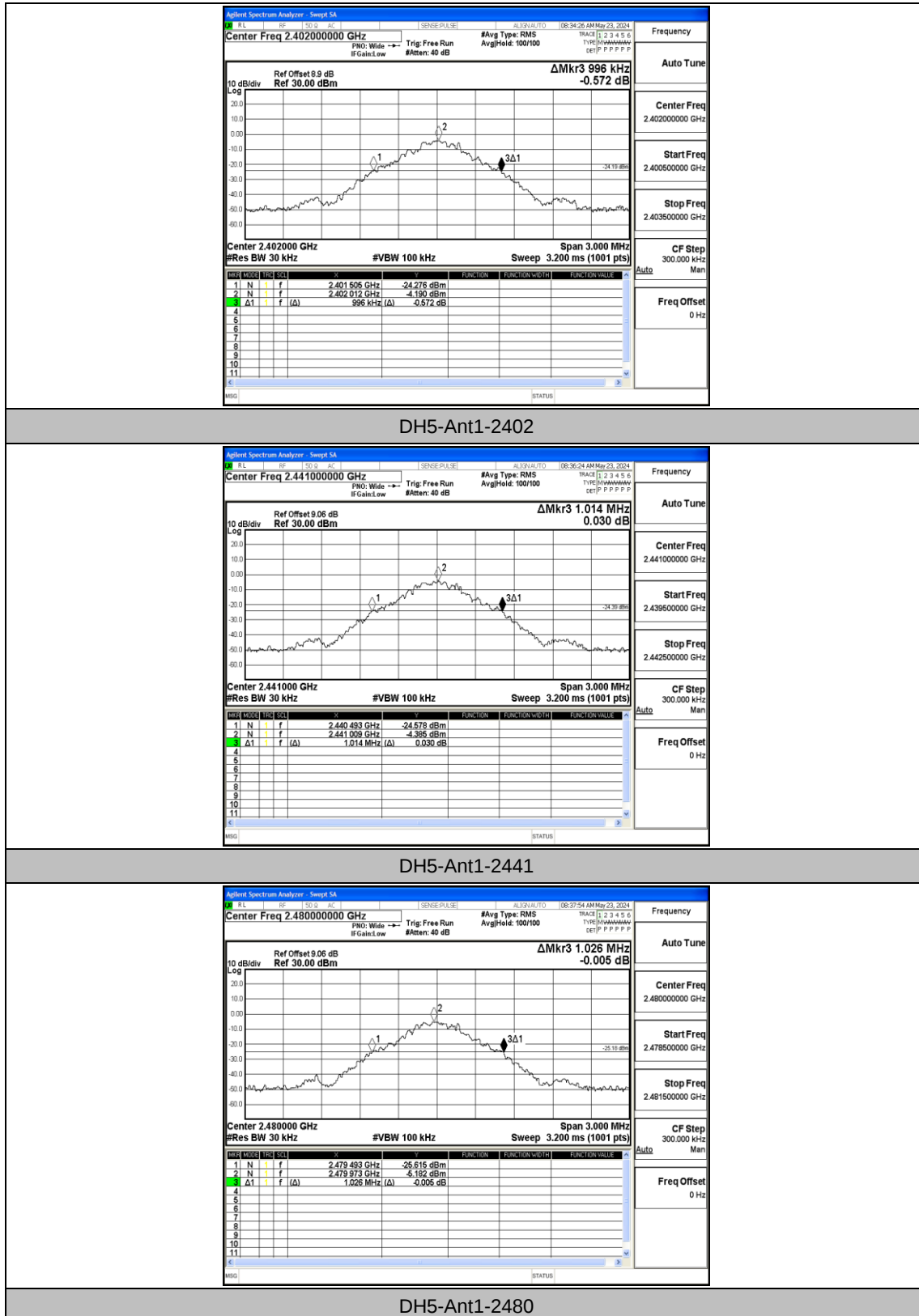
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

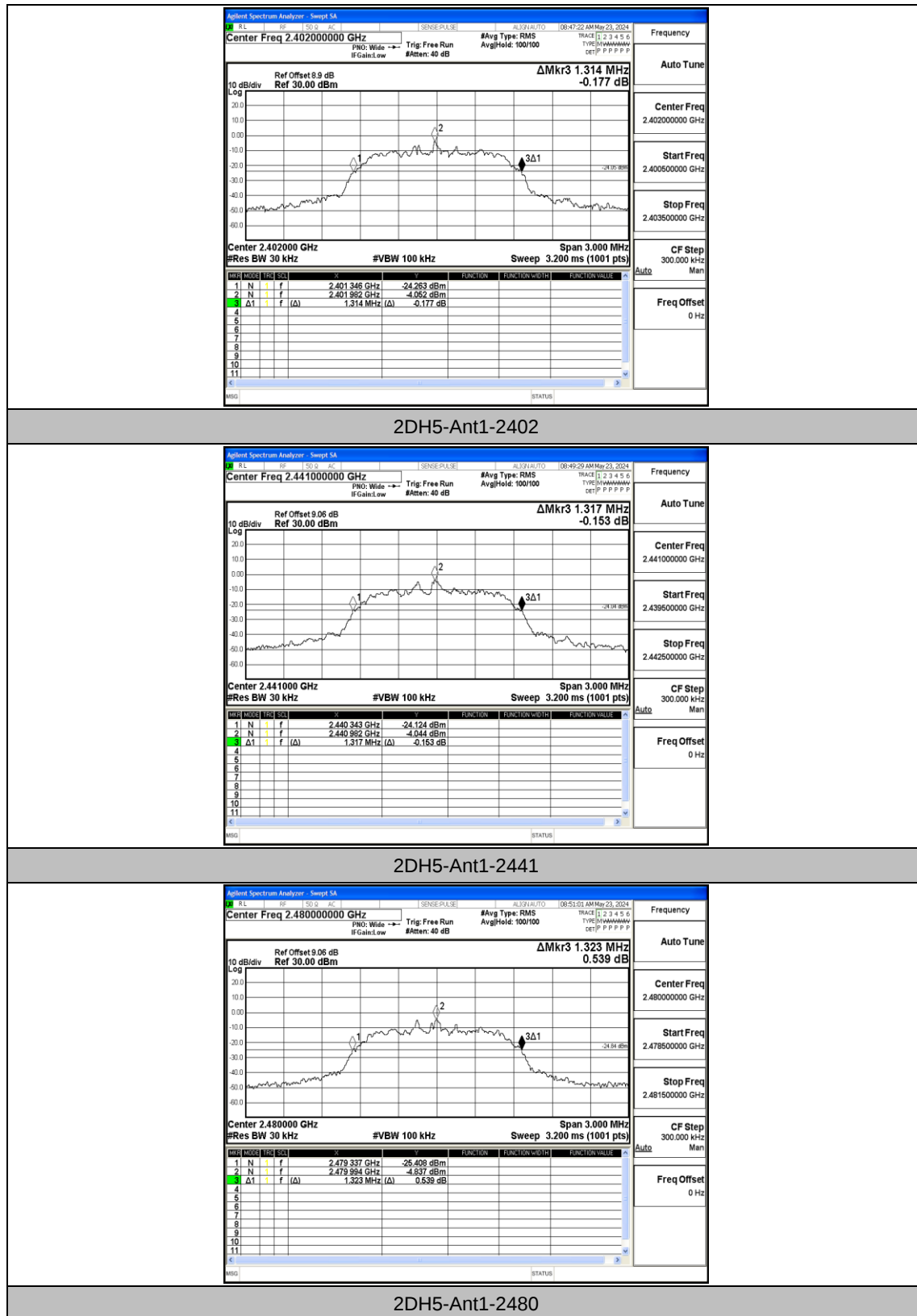
Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.996	2401.505	2402.501	---	---
DH5	Ant1	2441	1.014	2440.493	2441.507	---	---
DH5	Ant1	2480	1.026	2479.493	2480.519	---	---
2DH5	Ant1	2402	1.314	2401.346	2402.660	---	---
2DH5	Ant1	2441	1.317	2440.343	2441.660	---	---
2DH5	Ant1	2480	1.323	2479.337	2480.660	---	---

Test Graphs



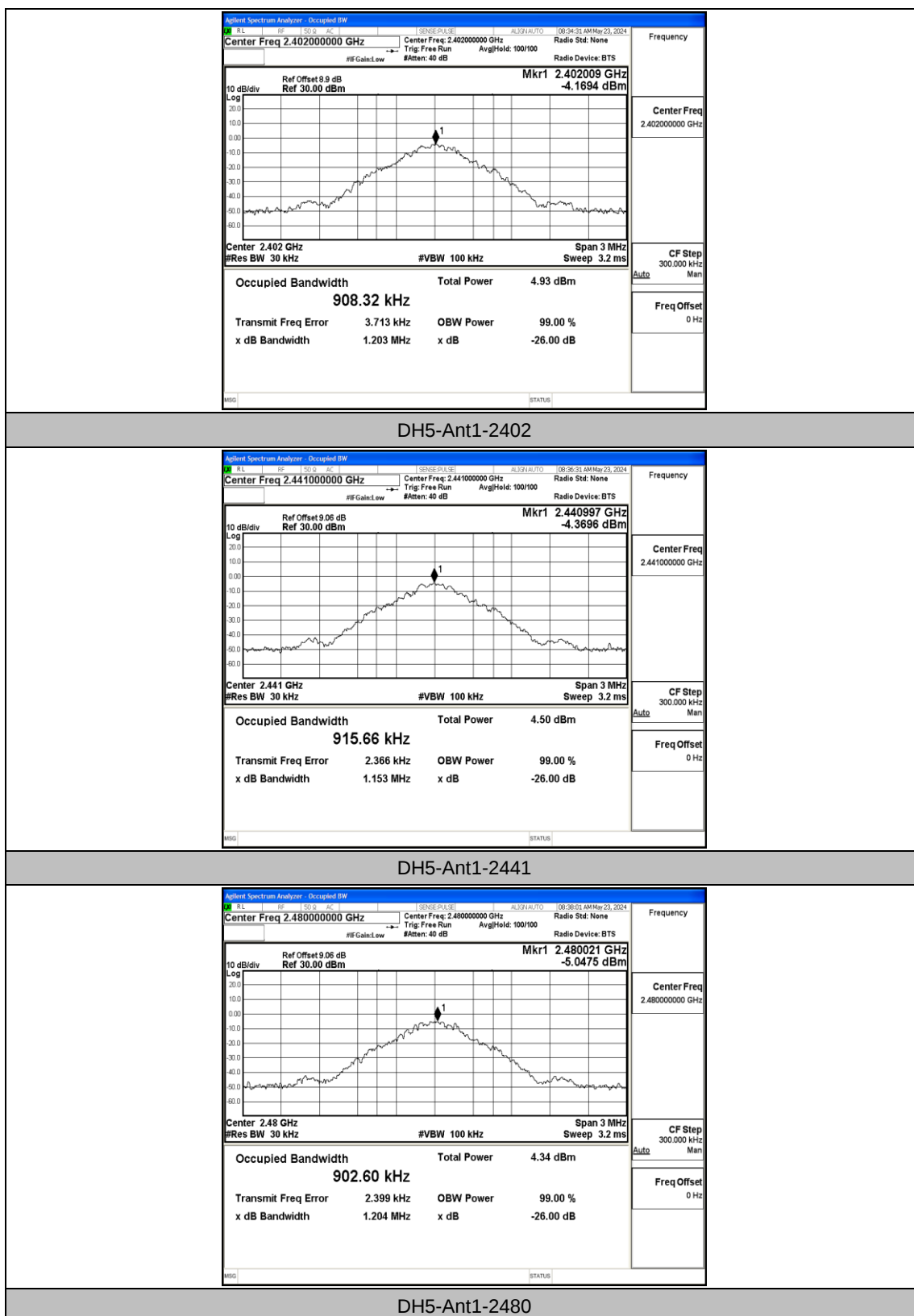


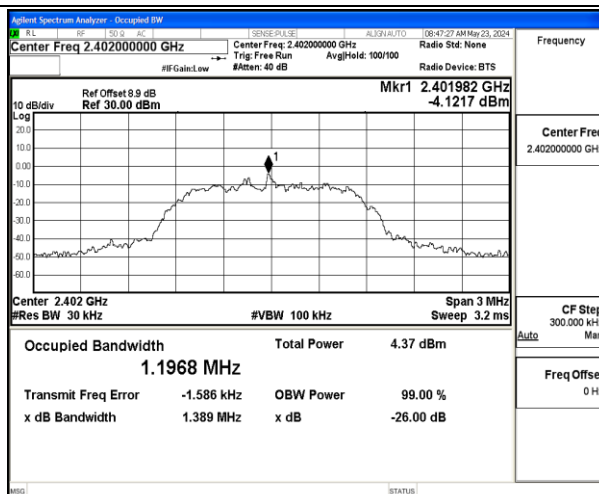
Appendix B: Occupied Channel Bandwidth

Test Result

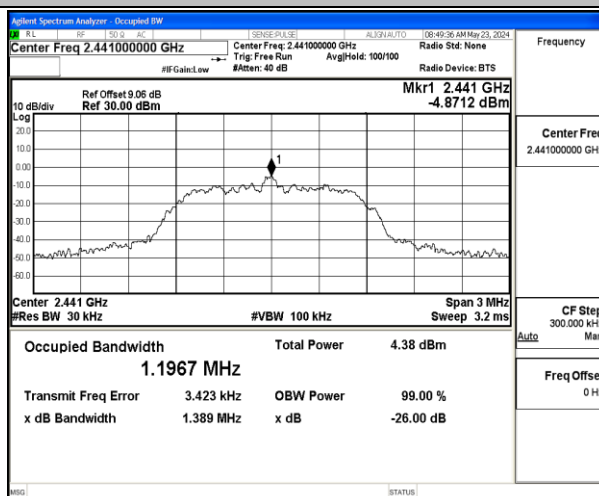
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.90832	2401.5496	2402.4579	---	---
DH5	Ant1	2441	0.91566	2440.5445	2441.4602	---	---
DH5	Ant1	2480	0.90260	2479.5511	2480.4537	---	---
2DH5	Ant1	2402	1.1968	2401.4000	2402.5968	---	---
2DH5	Ant1	2441	1.1967	2440.4051	2441.6018	---	---
2DH5	Ant1	2480	1.1919	2479.4065	2480.5984	---	---

Test Graphs

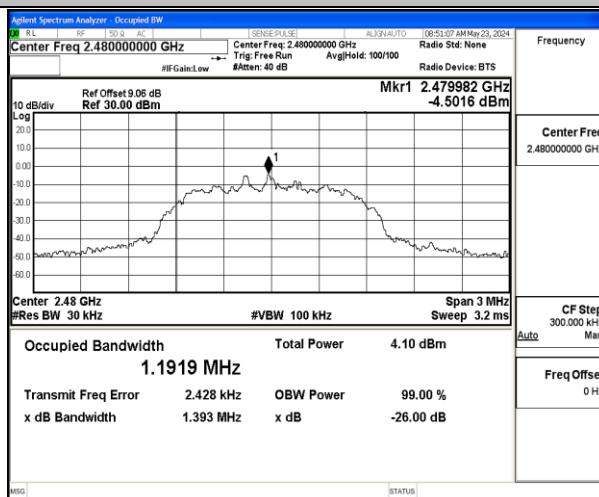




2DH5-Ant1-2402



2DH5-Ant1-2441



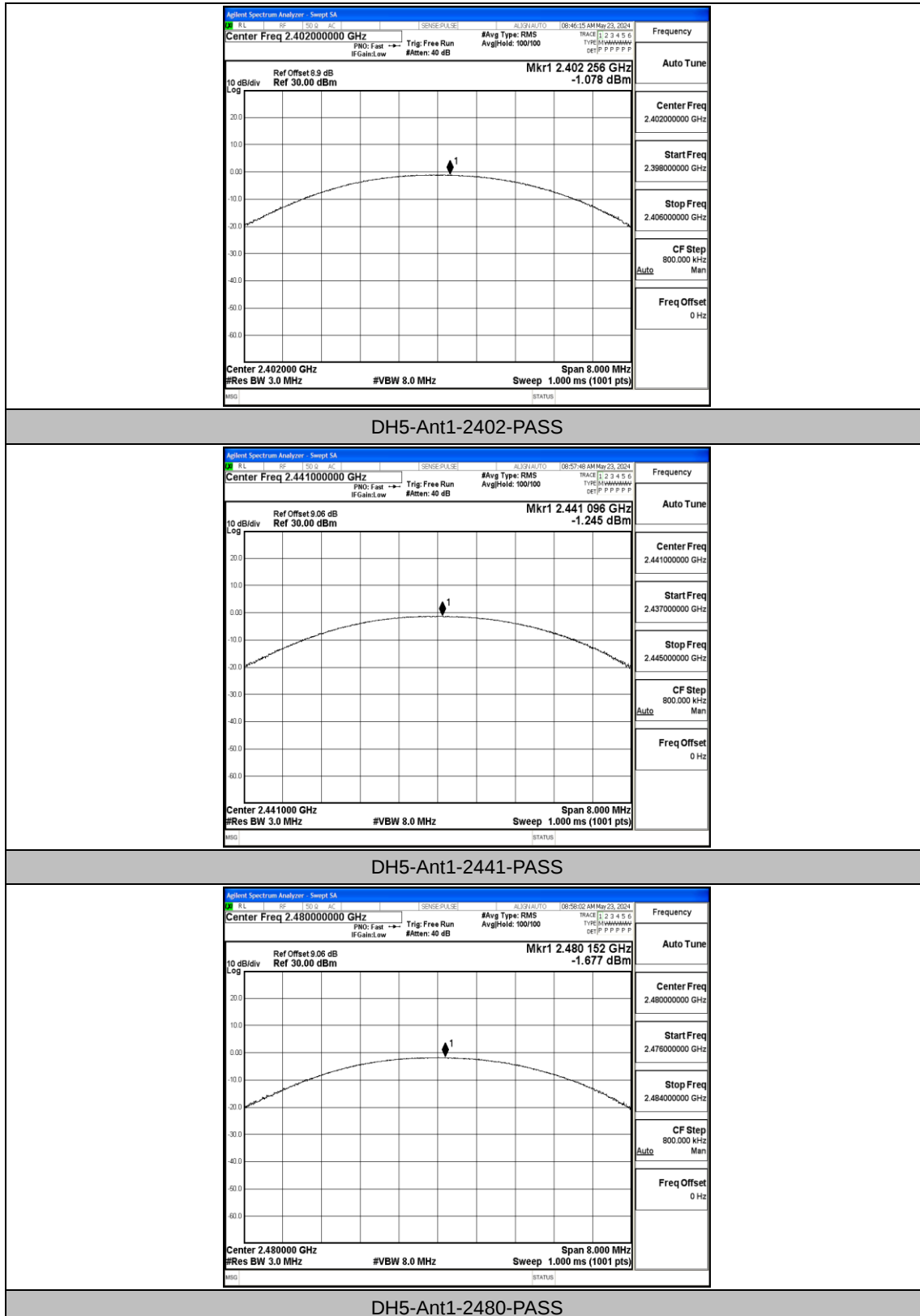
2DH5-Ant1-2480

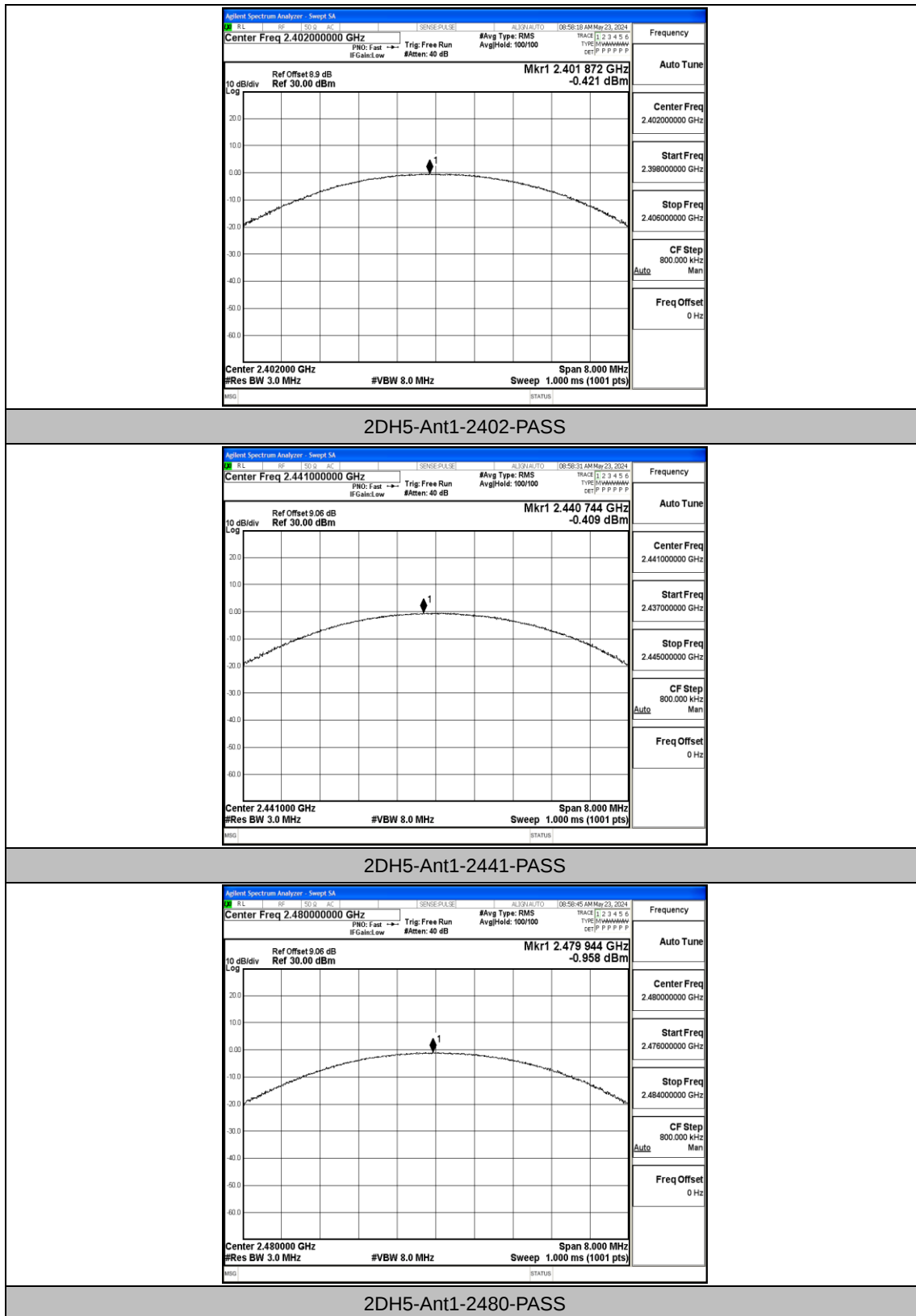
Appendix C: Maximum peak conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-1.08	≤30	PASS
DH5	Ant1	2441	-1.25	≤30	PASS
DH5	Ant1	2480	-1.68	≤30	PASS
2DH5	Ant1	2402	-0.42	≤20.97	PASS
2DH5	Ant1	2441	-0.41	≤20.97	PASS
2DH5	Ant1	2480	-0.96	≤20.97	PASS

Test Graphs



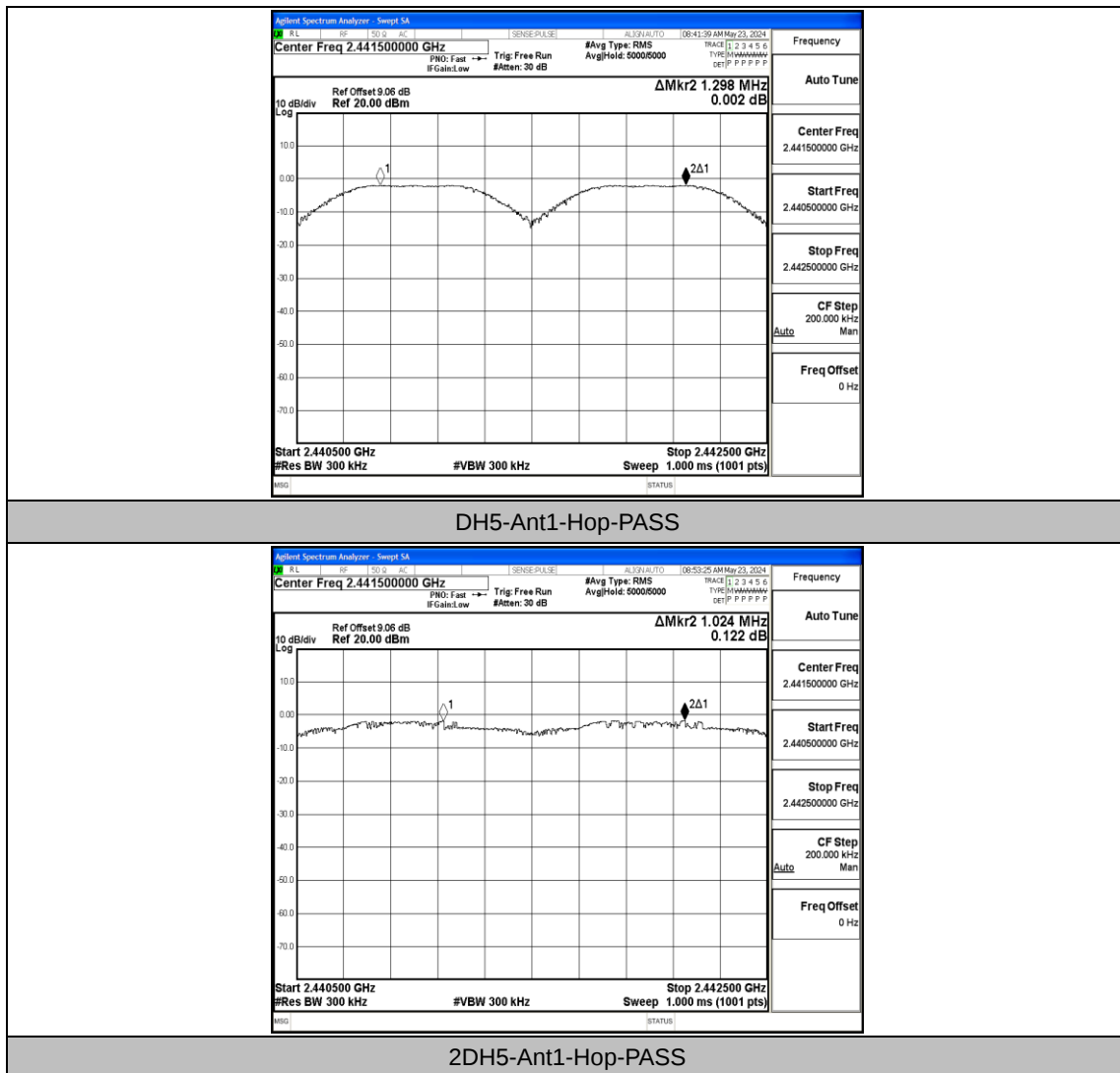


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.298	≥ 1.026	PASS
2DH5	Ant1	Hop	1.024	≥ 0.882	PASS

Test Graphs

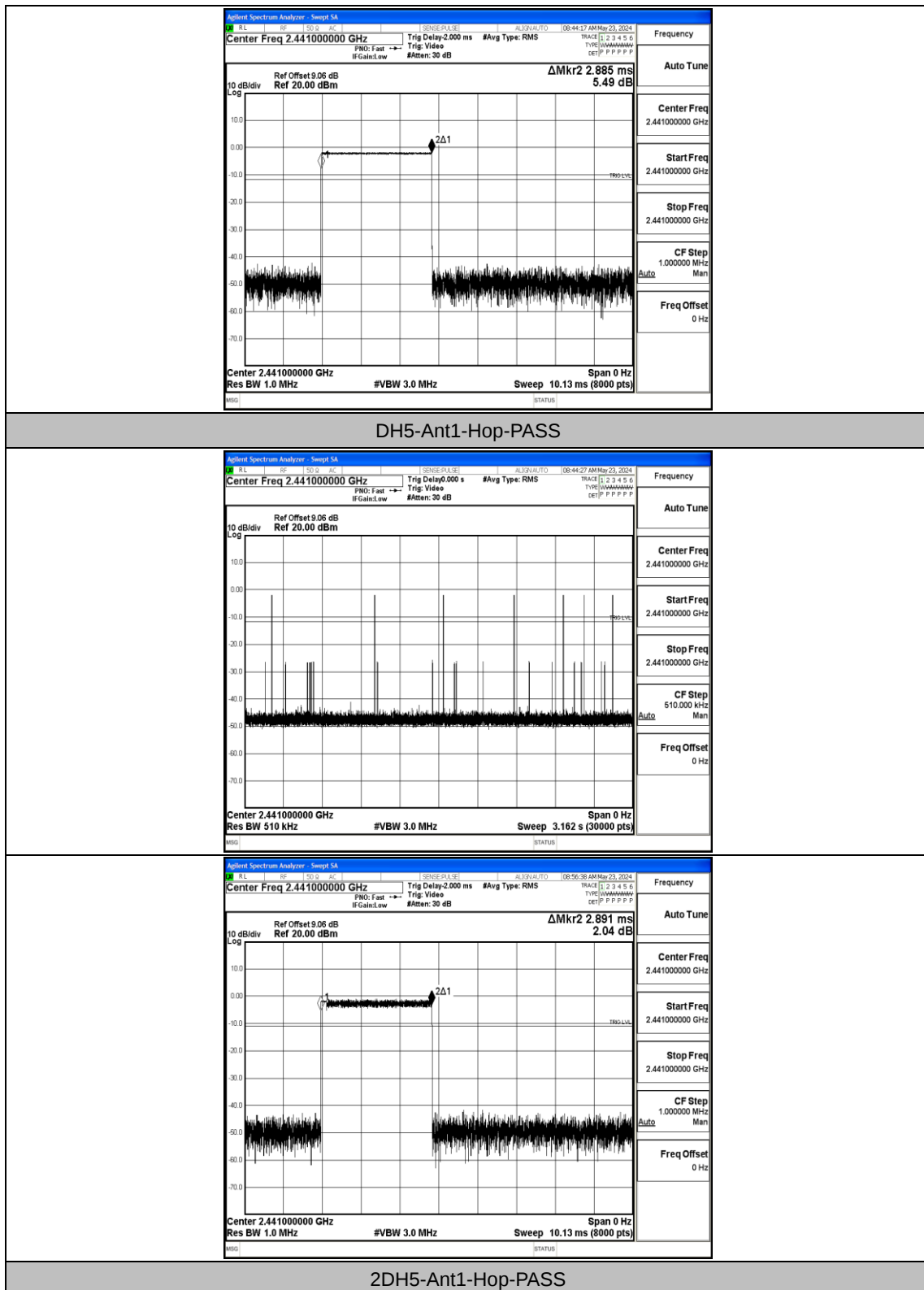


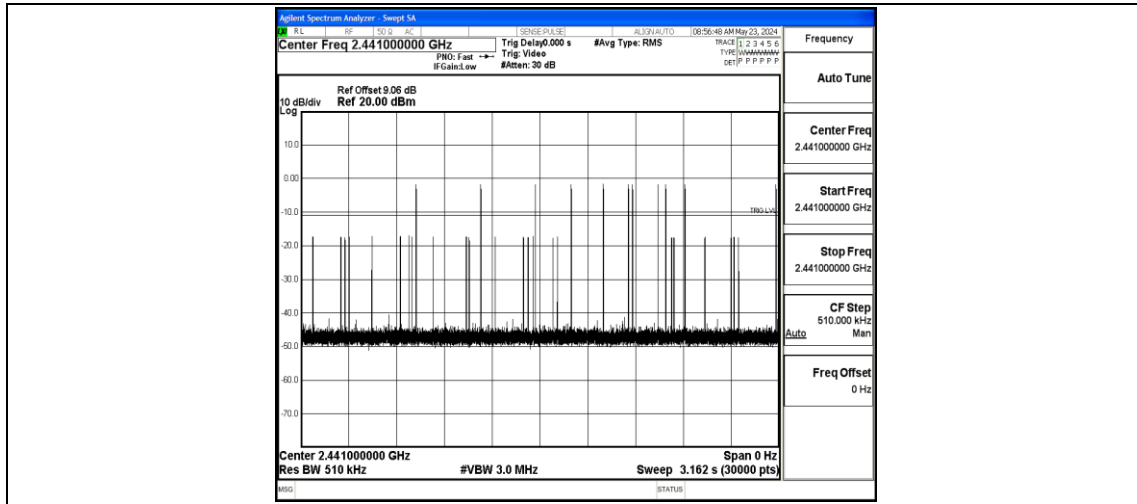
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	80	0.231	≤0.4	PASS
2DH5	Ant1	Hop	2.891	120	0.347	≤0.4	PASS

Test Graphs



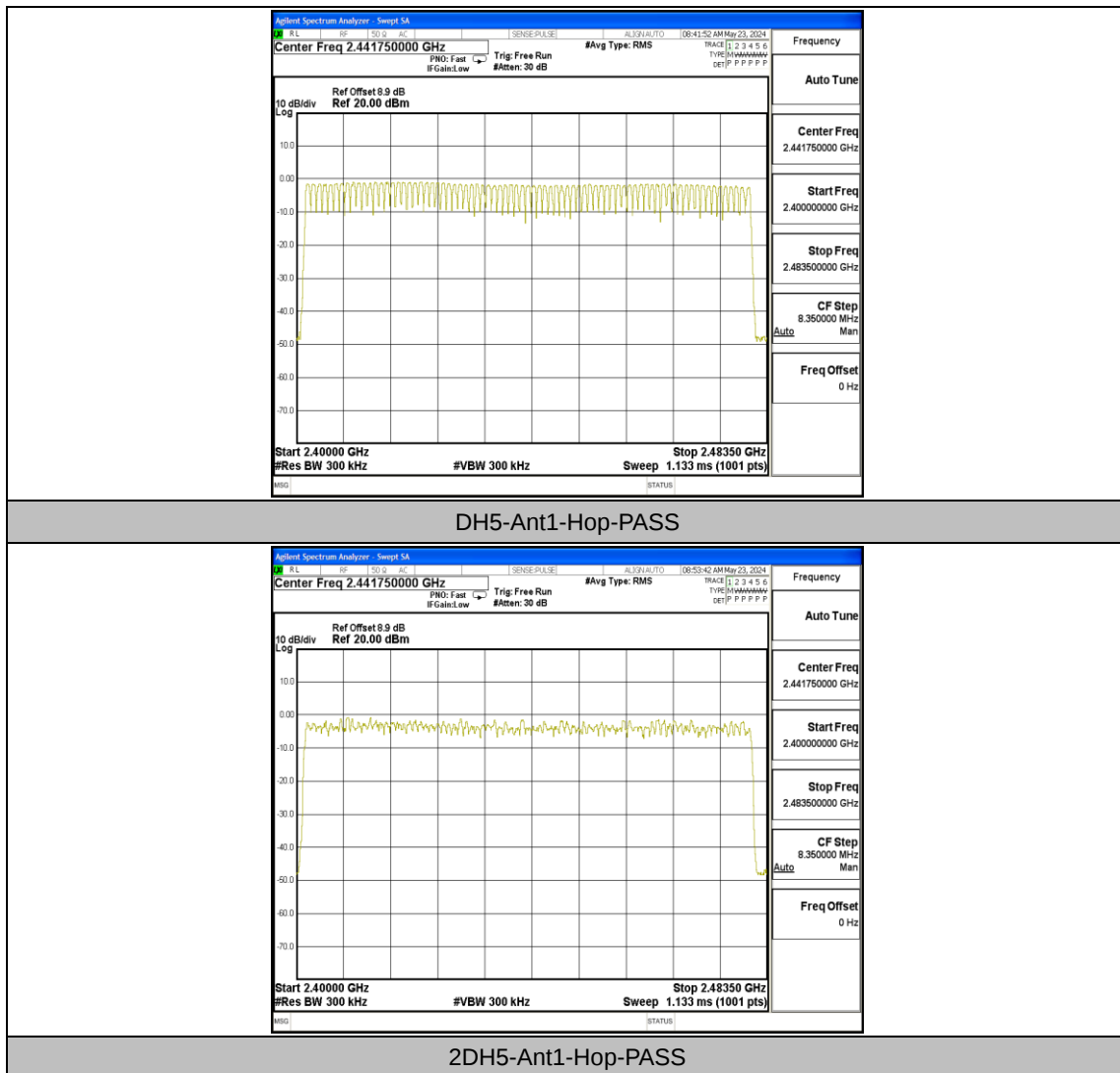


Appendix F: Number of hopping channels

Test Result

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

Test Graphs

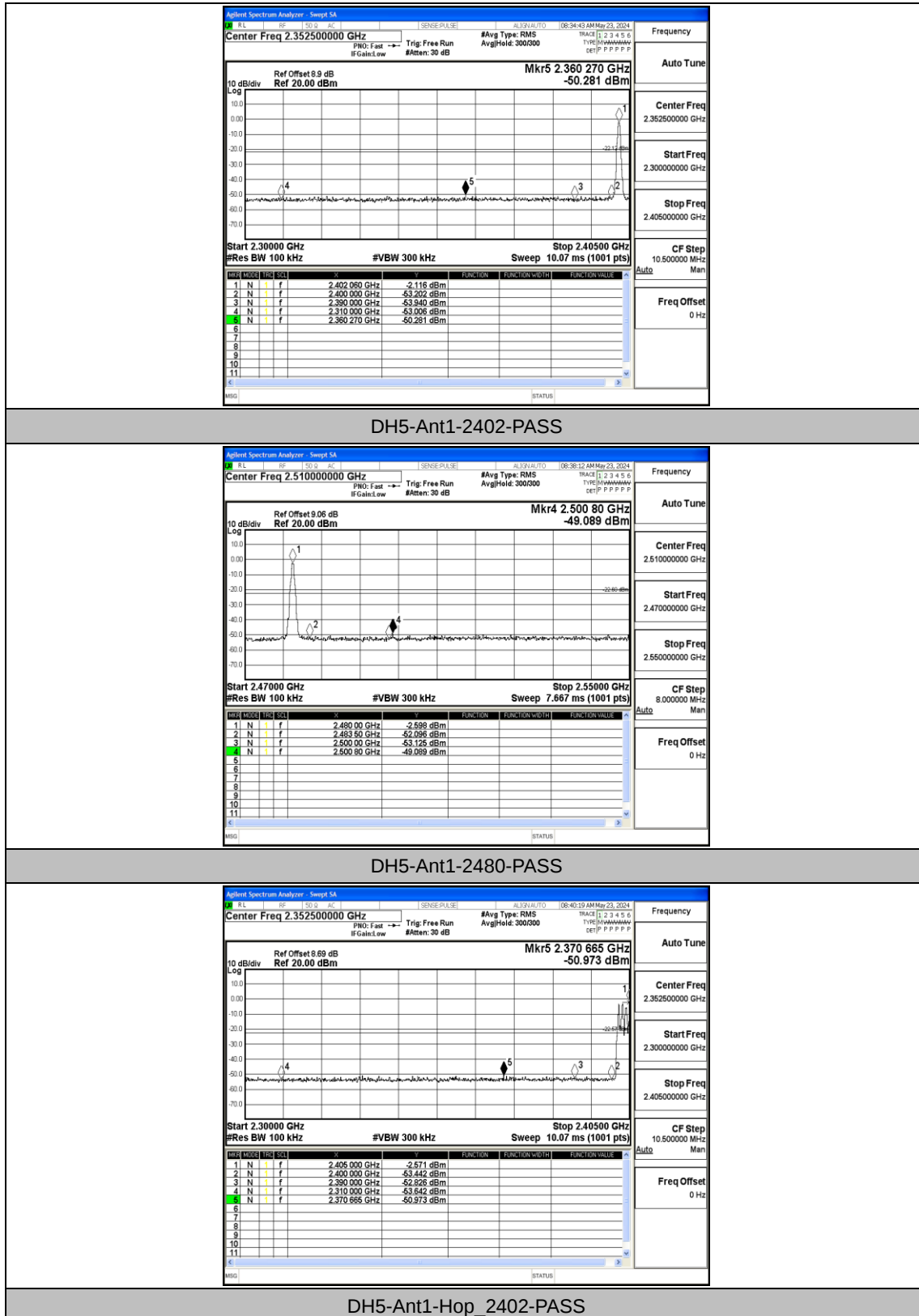


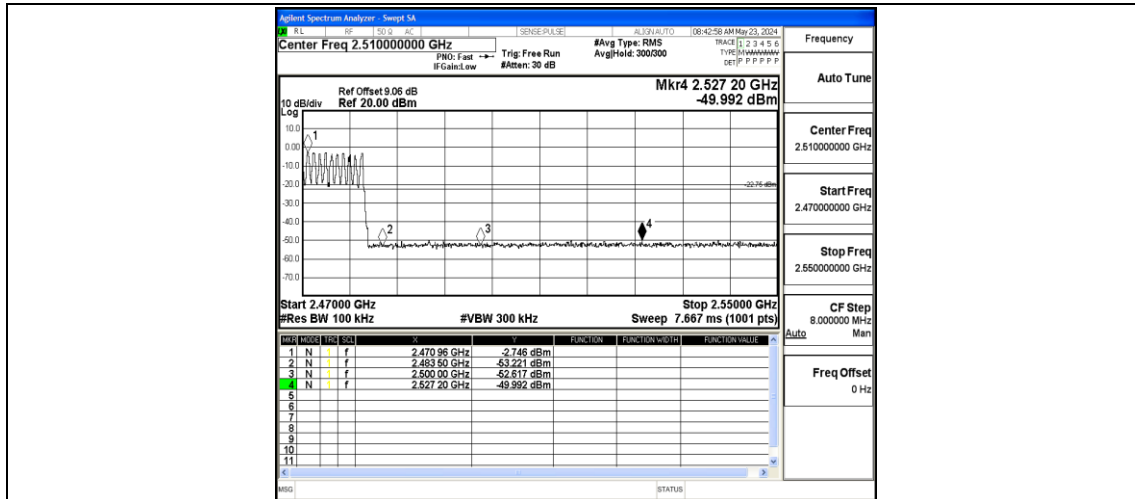
Appendix G: Band edge measurements

Test Result

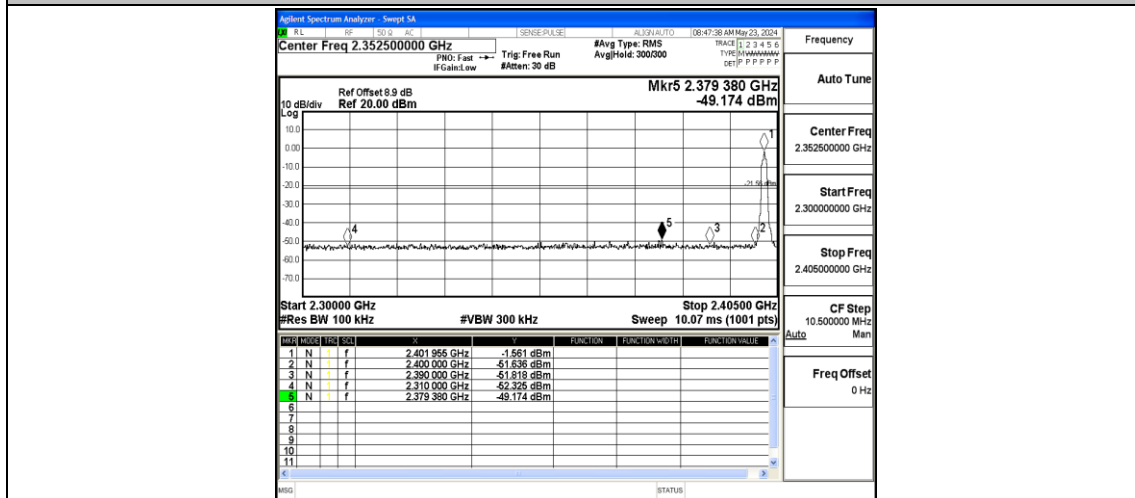
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.12	-50.28	≤ -22.12	PASS
DH5	Ant1	High	2480	-2.60	-49.09	≤ -22.6	PASS
DH5	Ant1	Low	Hop_2402	-2.57	-50.97	≤ -22.57	PASS
DH5	Ant1	High	Hop_2480	-2.75	-49.99	≤ -22.75	PASS
2DH5	Ant1	Low	2402	-1.56	-49.17	≤ -21.56	PASS
2DH5	Ant1	High	2480	-3.43	-49.53	≤ -23.43	PASS
2DH5	Ant1	Low	Hop_2402	-1.99	-51.17	≤ -21.99	PASS
2DH5	Ant1	High	Hop_2480	-3.90	-47.68	≤ -23.9	PASS

Test Graphs

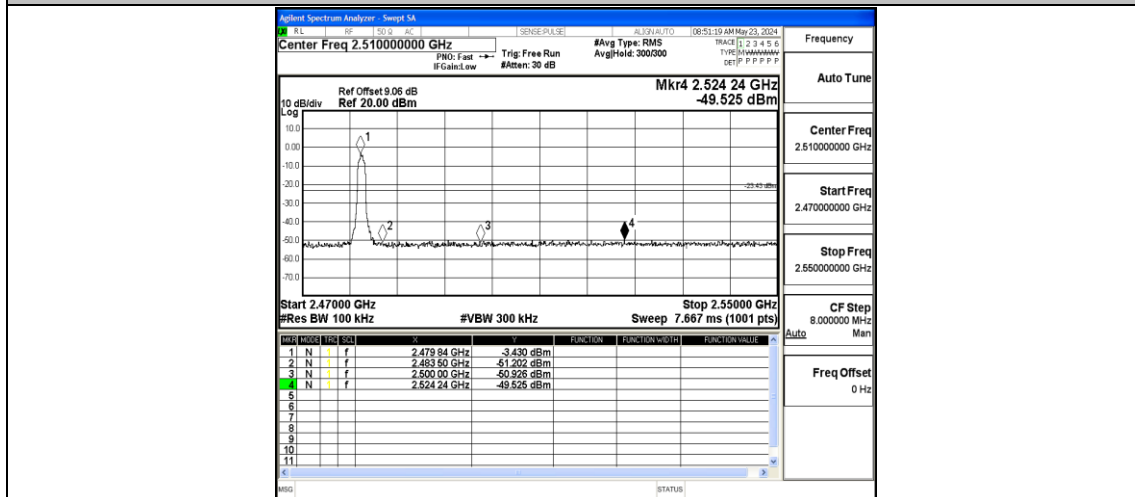




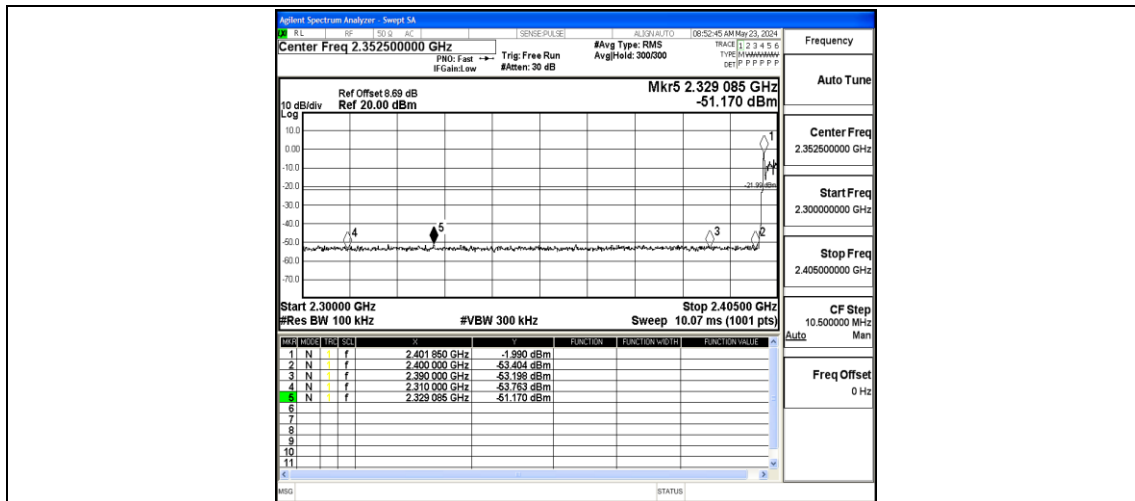
DH5-Ant1-Hop_2480-PASS



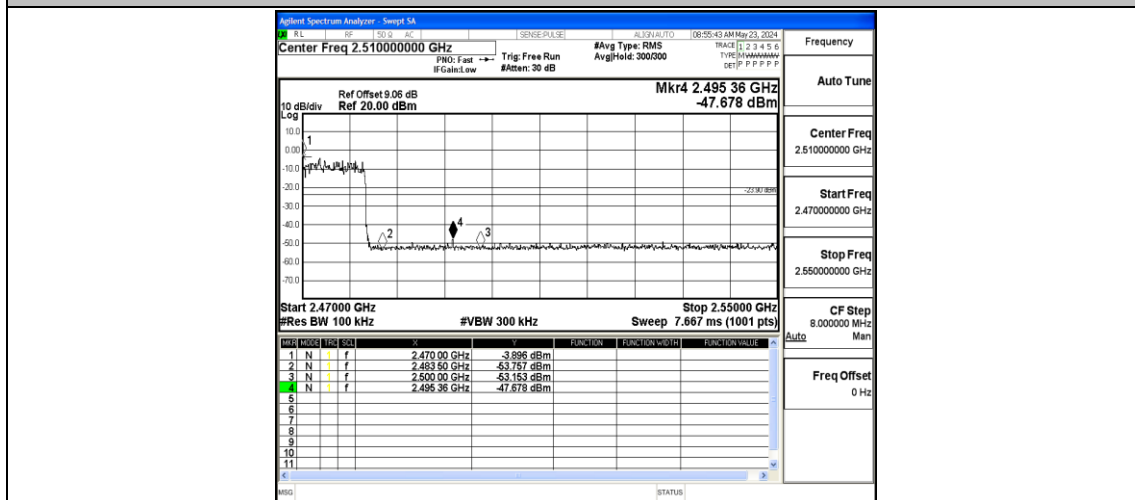
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



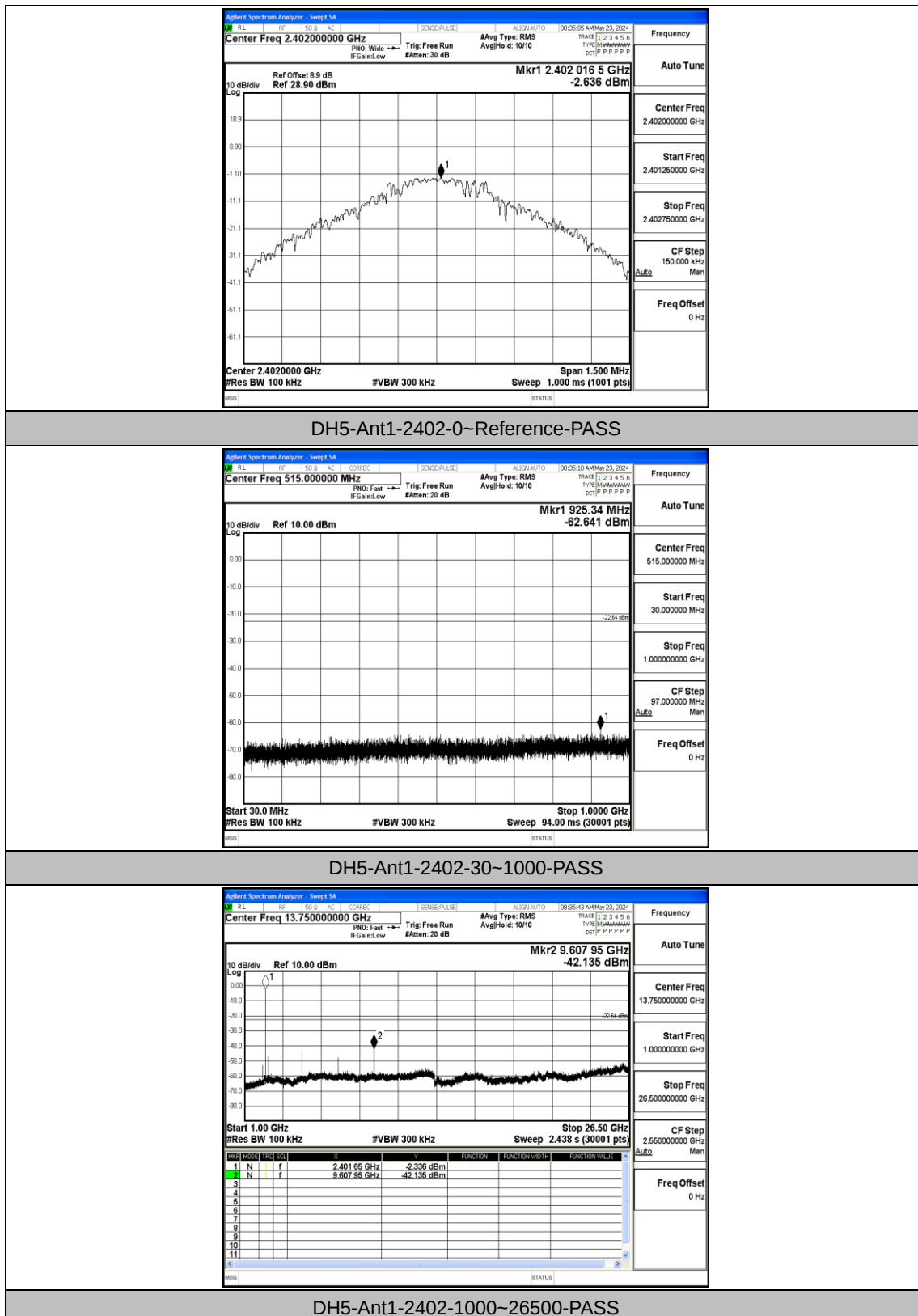
2DH5-Ant1-Hop_2480-PASS

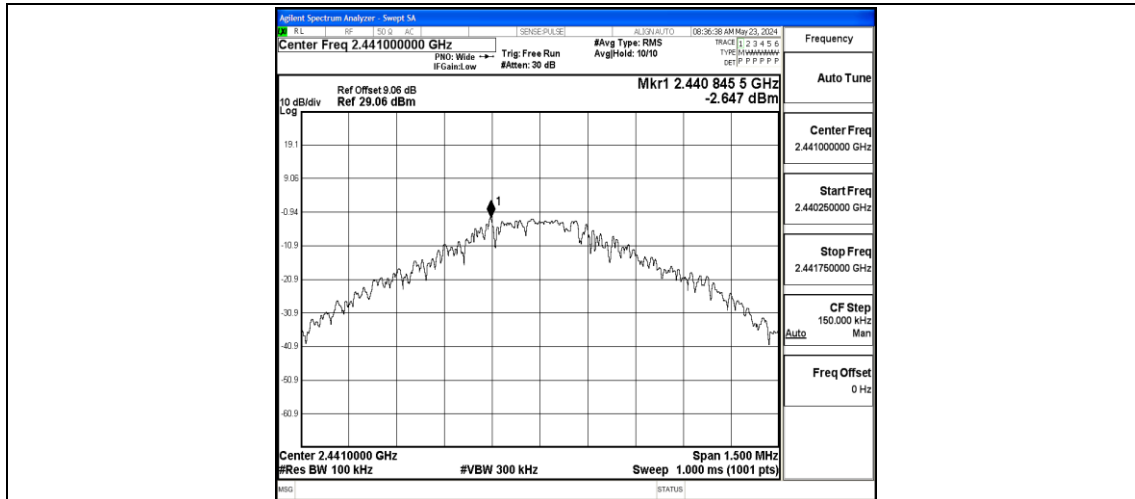
Appendix H: Conducted Spurious Emission

Test Result

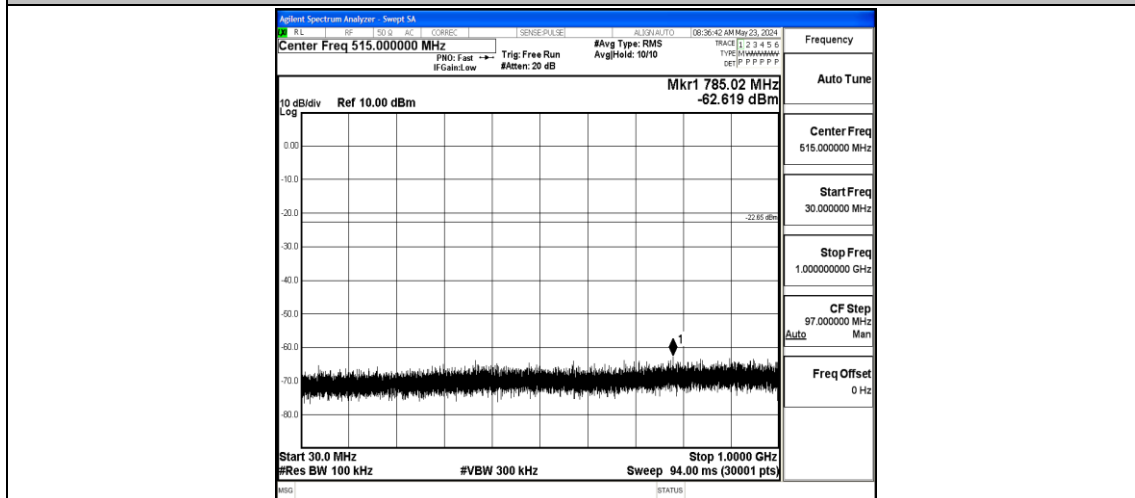
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-2.64	-2.64	---	PASS
DH5	Ant1	2402	30~1000	-2.64	-62.64	≤-22.64	PASS
DH5	Ant1	2402	1000~26500	-2.64	-42.14	≤-22.64	PASS
DH5	Ant1	2441	0~Reference	-2.65	-2.65	---	PASS
DH5	Ant1	2441	30~1000	-2.65	-62.62	≤-22.65	PASS
DH5	Ant1	2441	1000~26500	-2.65	-36.02	≤-22.65	PASS
DH5	Ant1	2480	0~Reference	-3.40	-3.40	---	PASS
DH5	Ant1	2480	30~1000	-3.40	-62.95	≤-23.4	PASS
DH5	Ant1	2480	1000~26500	-3.40	-36.35	≤-23.4	PASS
2DH5	Ant1	2402	0~Reference	-5.34	-5.34	---	PASS
2DH5	Ant1	2402	30~1000	-5.34	-62.74	≤-25.34	PASS
2DH5	Ant1	2402	1000~26500	-5.34	-40.47	≤-25.34	PASS
2DH5	Ant1	2441	0~Reference	-5.63	-5.63	---	PASS
2DH5	Ant1	2441	30~1000	-5.63	-62.67	≤-25.63	PASS
2DH5	Ant1	2441	1000~26500	-5.63	-35.12	≤-25.63	PASS
2DH5	Ant1	2480	0~Reference	-2.52	-2.52	---	PASS
2DH5	Ant1	2480	30~1000	-2.52	-62.6	≤-22.52	PASS
2DH5	Ant1	2480	1000~26500	-2.52	-35.69	≤-22.52	PASS

Test Graphs

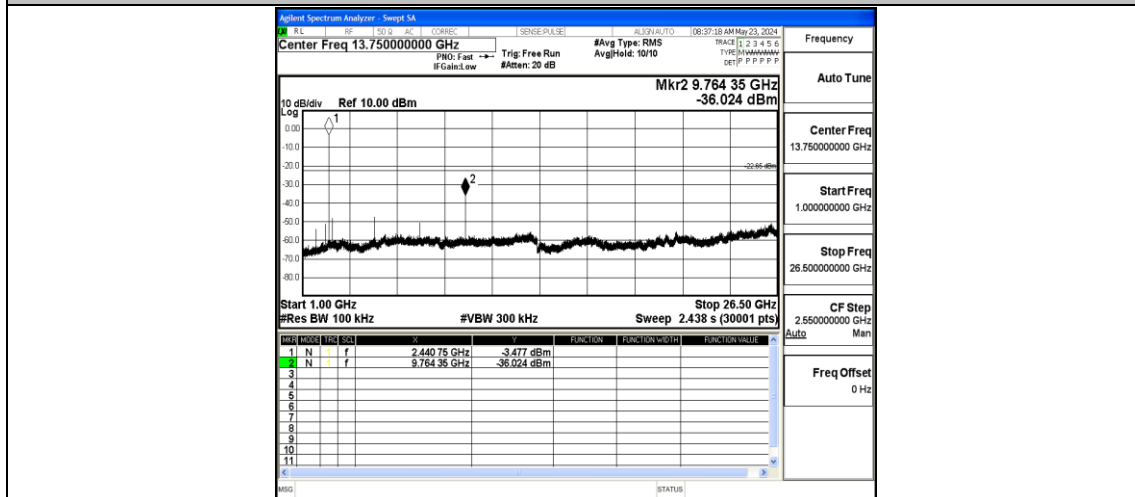




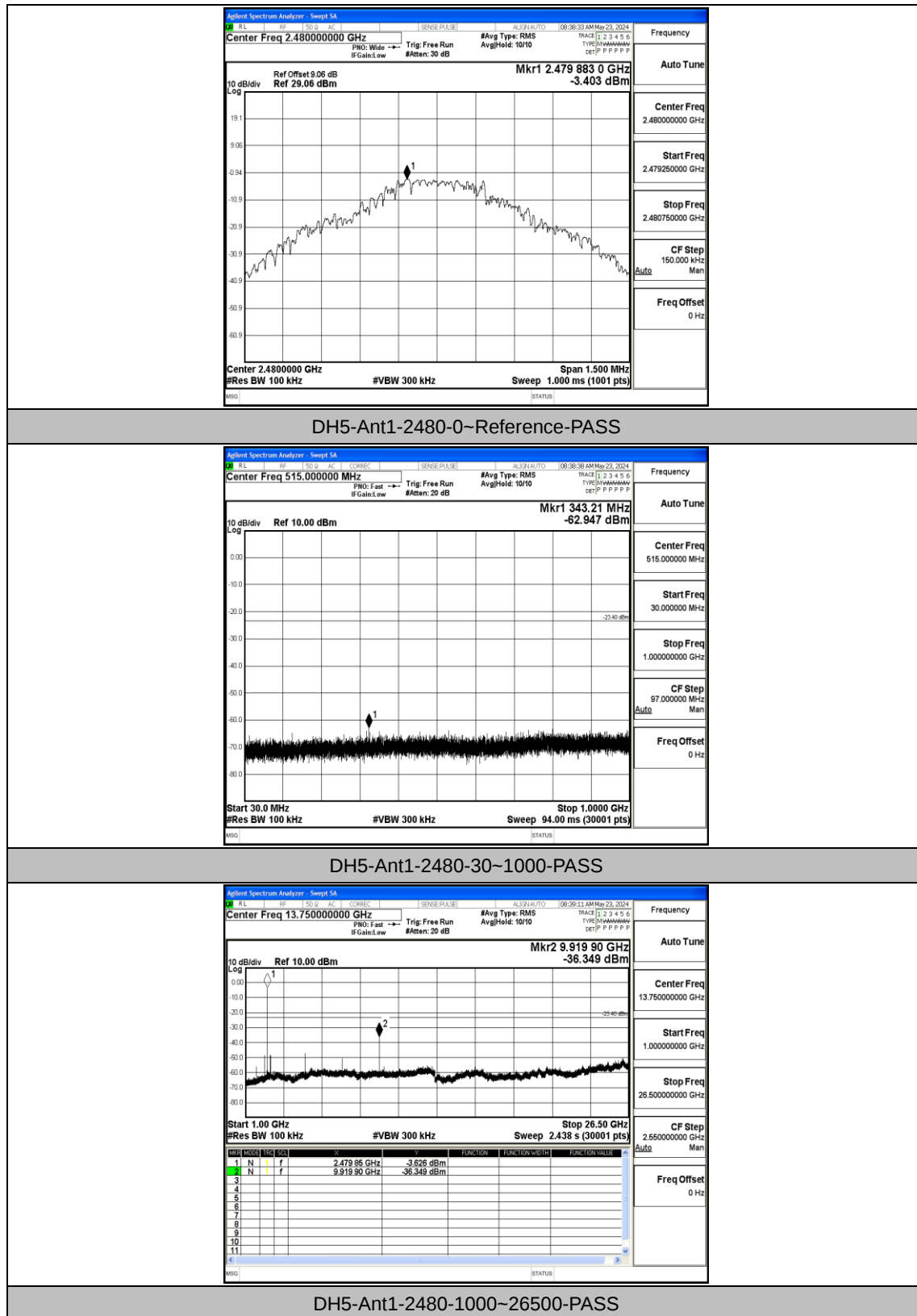
DH5-Ant1-2441-0~Reference-PASS

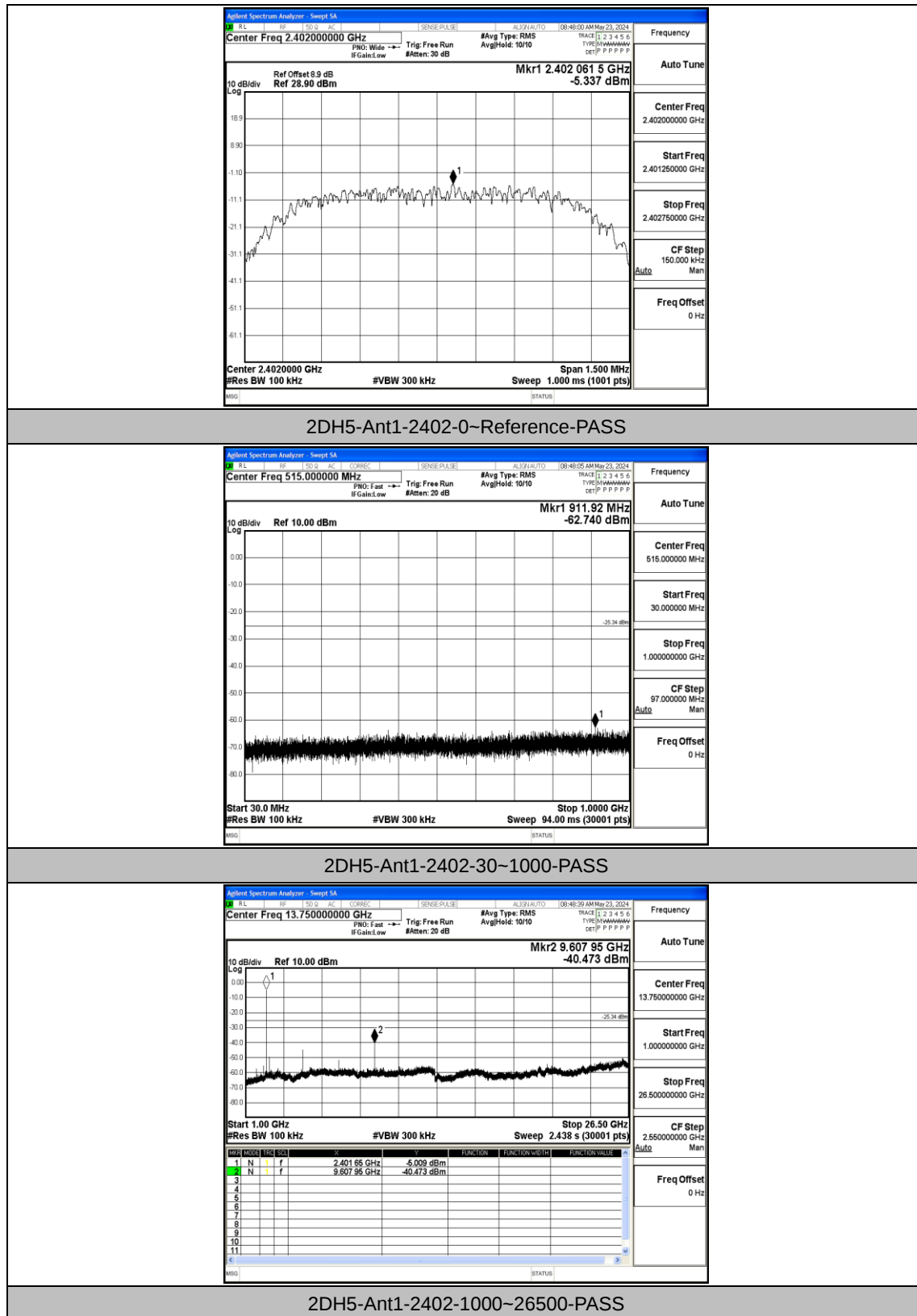


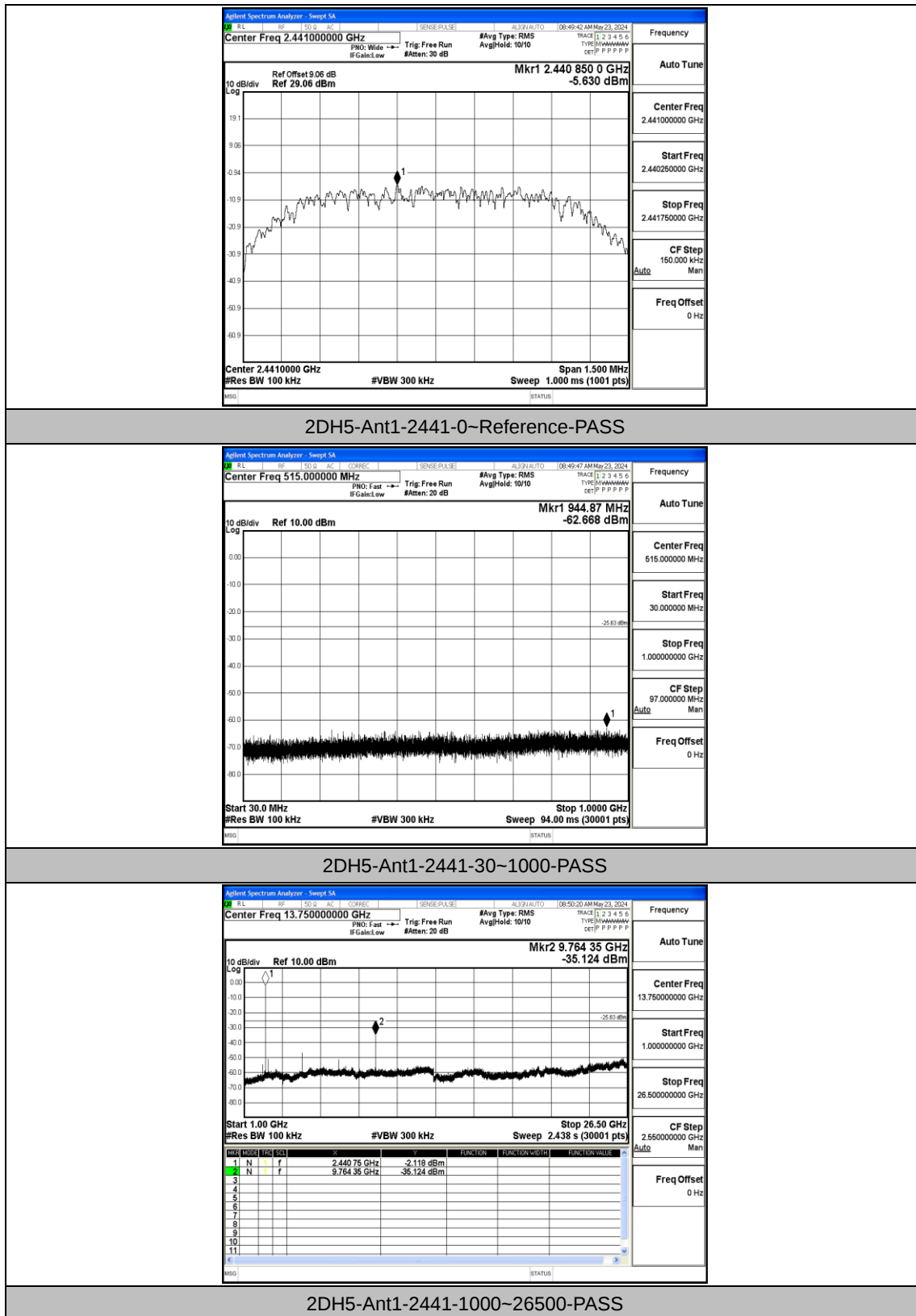
DH5-Ant1-2441-30~1000-PASS

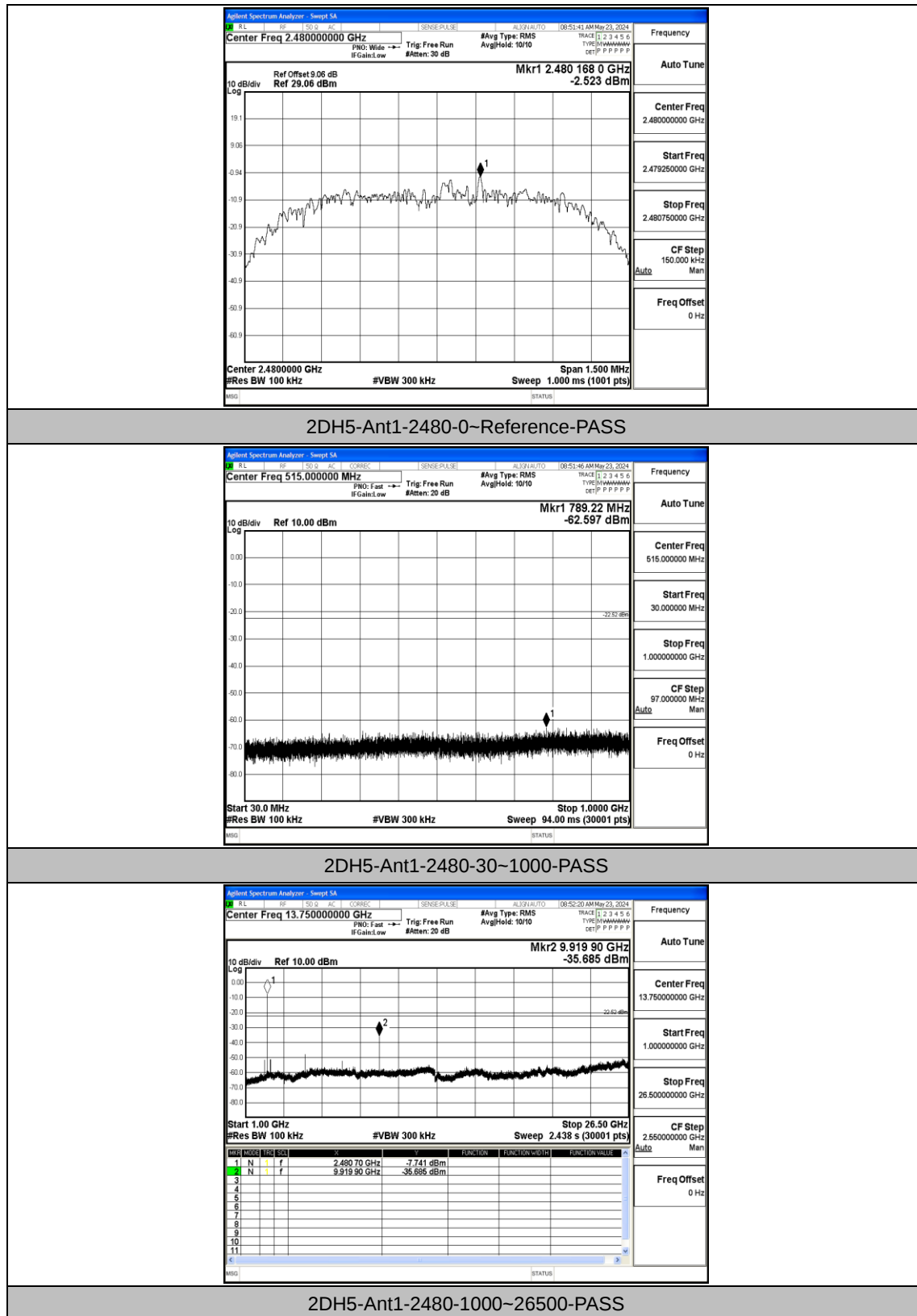


DH5-Ant1-2441-1000~26500-PASS







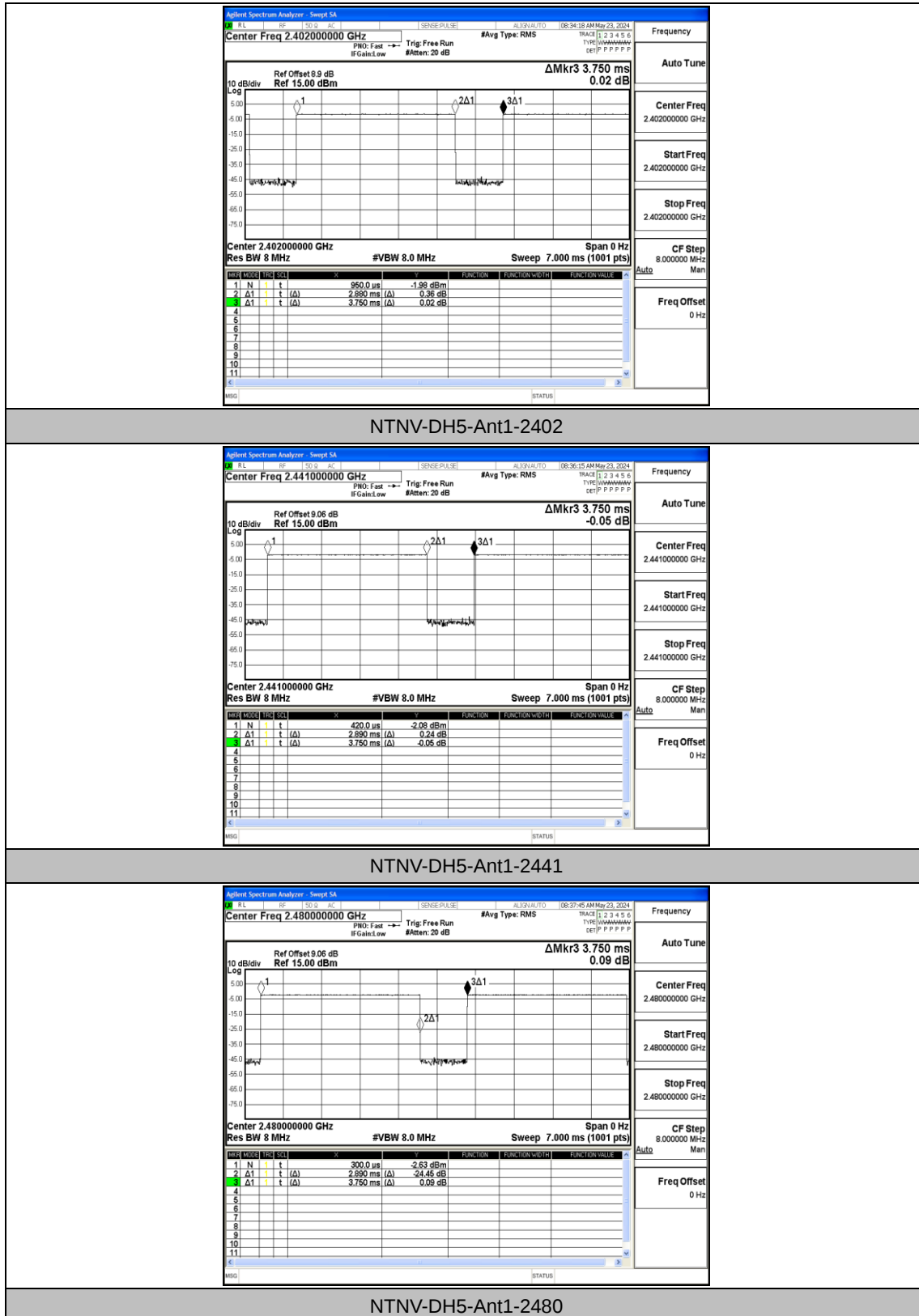


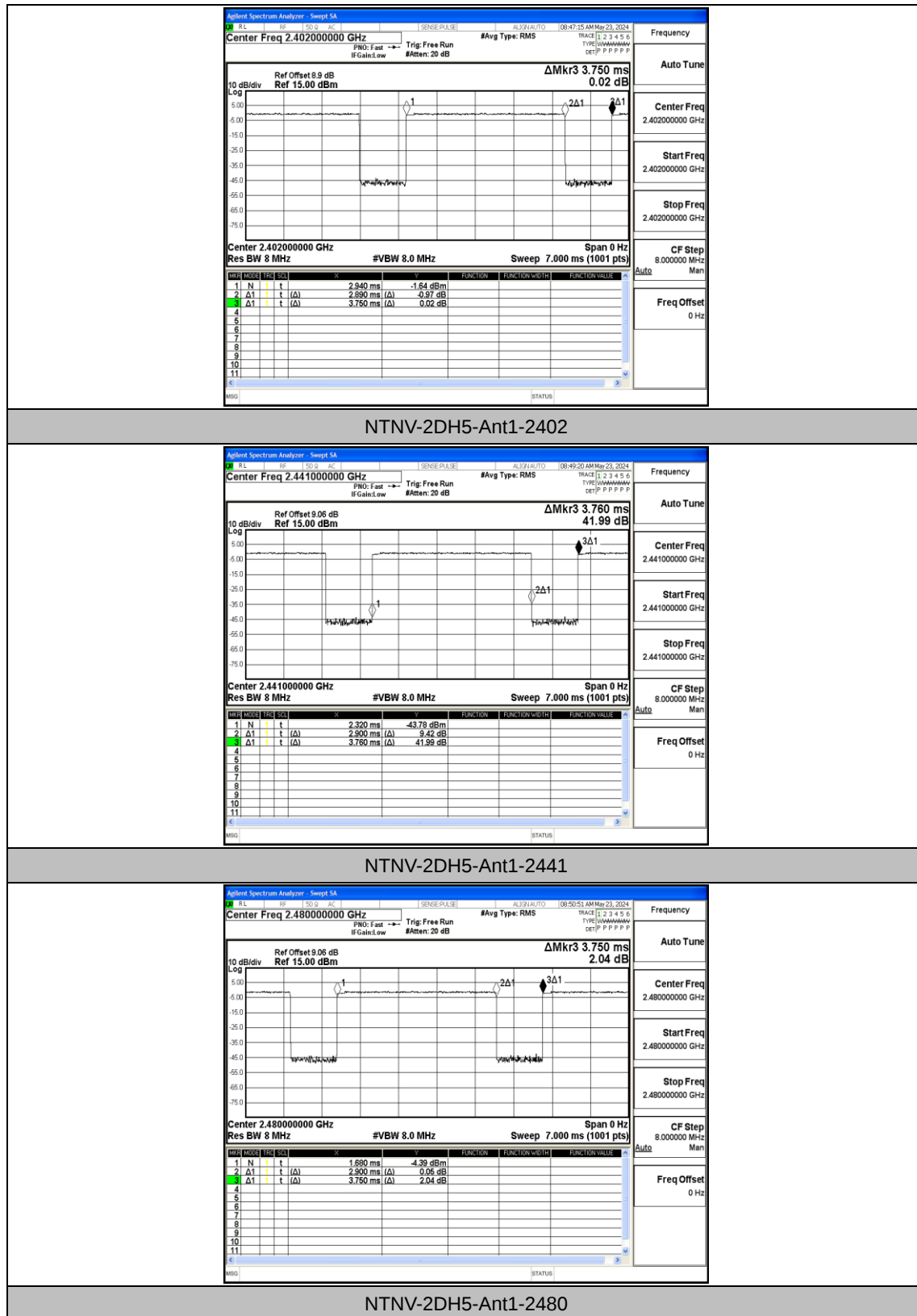
Appendix I: Duty Cycle

Test Result

TestMode	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	2.90	3.76	77.13	1.13
2DH5	Ant1	2480	2.90	3.75	77.33	1.12

Test Graphs





Appendix J: Emissions in Restricted Bands

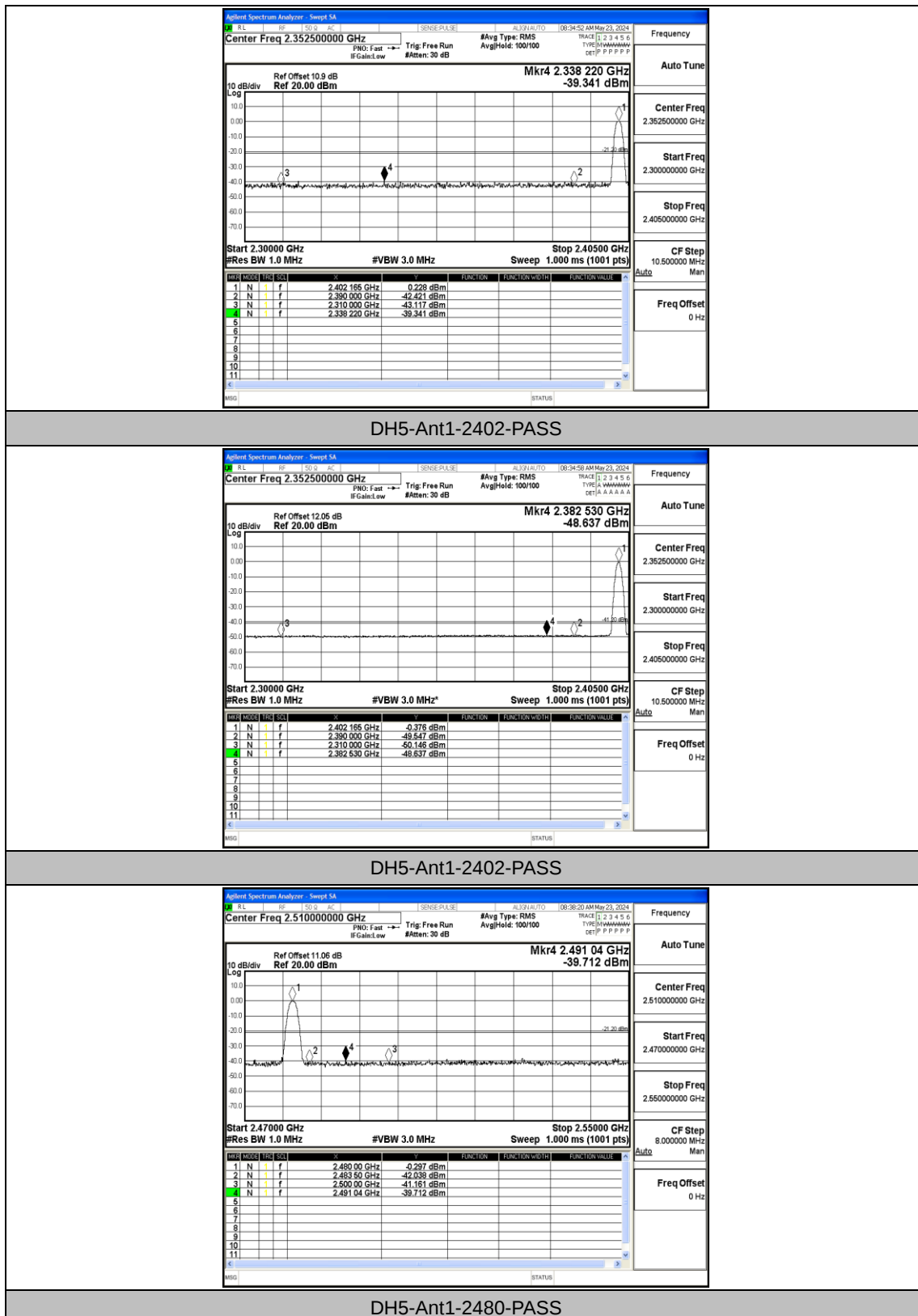
Test Result

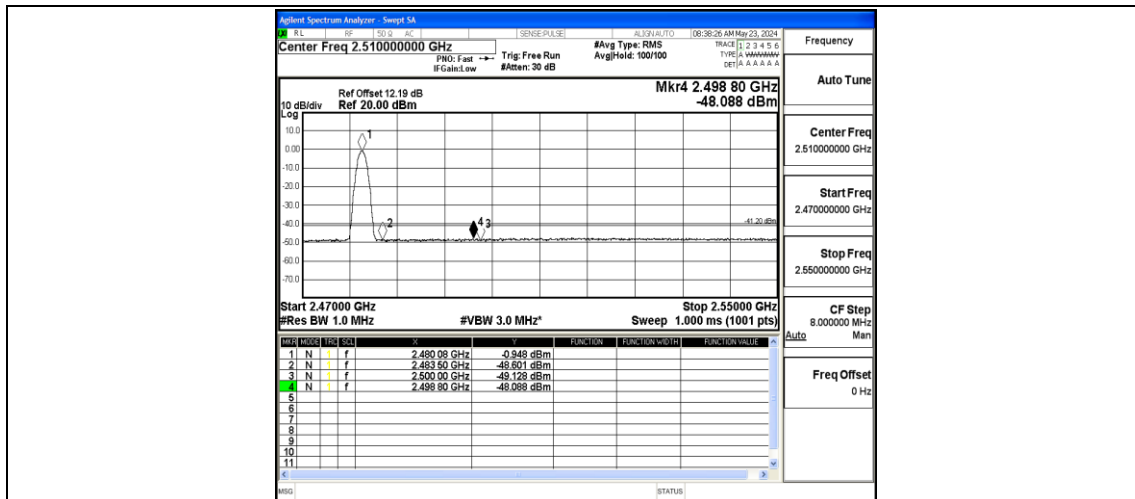
TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	Peak	2390.000	-42.42	≤-21.20	52.78	≤74	PASS
DH5	Ant1	Low	2402	Peak	2310.000	-43.12	≤-21.20	52.08	≤74	PASS
DH5	Ant1	Low	2402	Peak	2338.220	-39.34	≤-21.20	55.86	≤74	PASS
DH5	Ant1	Low	2402	AV	2390.000	-49.55	≤-41.20	45.65	≤54	PASS
DH5	Ant1	Low	2402	AV	2310.000	-50.15	≤-41.20	45.05	≤54	PASS
DH5	Ant1	Low	2402	AV	2382.530	-48.64	≤-41.20	46.56	≤54	PASS
DH5	Ant1	High	2480	Peak	2483.500	-42.04	≤-21.20	53.16	≤74	PASS
DH5	Ant1	High	2480	Peak	2500.000	-41.16	≤-21.20	54.04	≤74	PASS
DH5	Ant1	High	2480	Peak	2491.040	-39.71	≤-21.20	55.49	≤74	PASS
DH5	Ant1	High	2480	AV	2483.500	-48.6	≤-41.20	46.60	≤54	PASS
DH5	Ant1	High	2480	AV	2500.000	-49.13	≤-41.20	46.07	≤54	PASS
DH5	Ant1	High	2480	AV	2498.800	-48.09	≤-41.20	47.11	≤54	PASS
2DH5	Ant1	Low	2402	Peak	2390.000	-41.44	≤-21.20	53.76	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2310.000	-42.58	≤-21.20	52.62	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2351.975	-38.82	≤-21.20	56.38	≤74	PASS
2DH5	Ant1	Low	2402	AV	2390.000	-48.87	≤-41.20	46.33	≤54	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.43	≤-41.20	45.77	≤54	PASS
2DH5	Ant1	Low	2402	AV	2370.875	-48.02	≤-41.20	47.18	≤54	PASS
2DH5	Ant1	High	2480	Peak	2483.500	-41.21	≤-21.20	53.99	≤74	PASS
2DH5	Ant1	High	2480	Peak	2500.000	-42.7	≤-21.20	52.50	≤74	PASS
2DH5	Ant1	High	2480	Peak	2490.320	-39.23	≤-21.20	55.97	≤74	PASS
2DH5	Ant1	High	2480	AV	2483.500	-48.08	≤-41.20	47.12	≤54	PASS
2DH5	Ant1	High	2480	AV	2500.000	-48.05	≤-41.20	47.15	≤54	PASS
2DH5	Ant1	High	2480	AV	2496.800	-47.5	≤-41.20	47.70	≤54	PASS

Note:

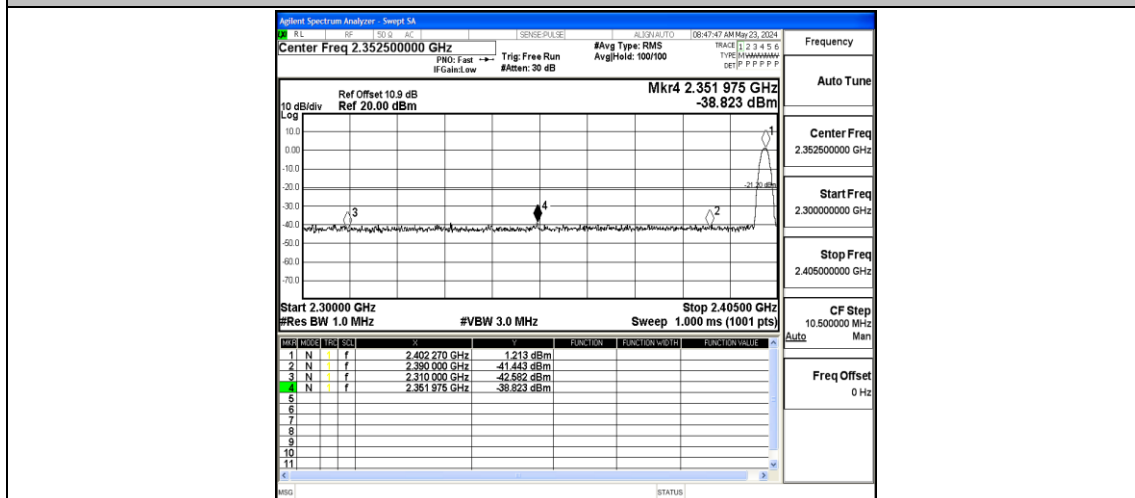
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

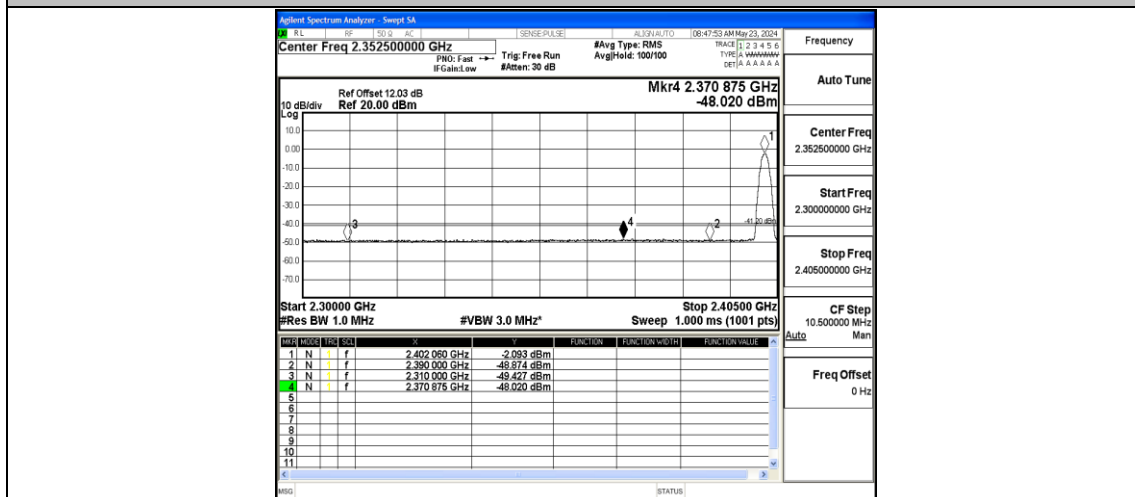




DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2402-PASS

