

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

Product Name: TWS Bluetooth headset

Trade Mark: N/A

Test Model: GT-50

FCC ID: 2BFD9-GT-50

Environmental Conditions

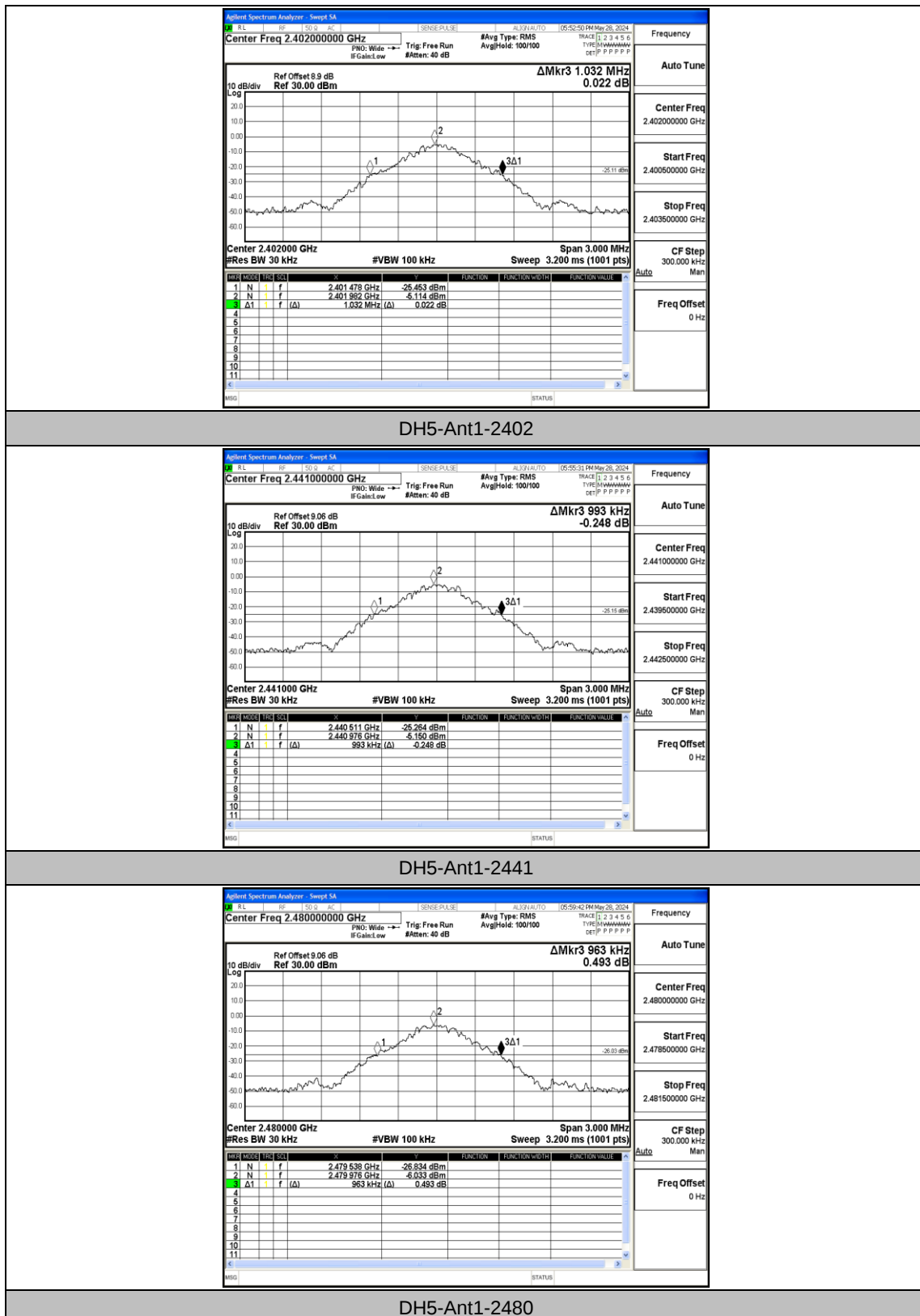
Temperature:	#Temp.
Relative Humidity:	#Humidity
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

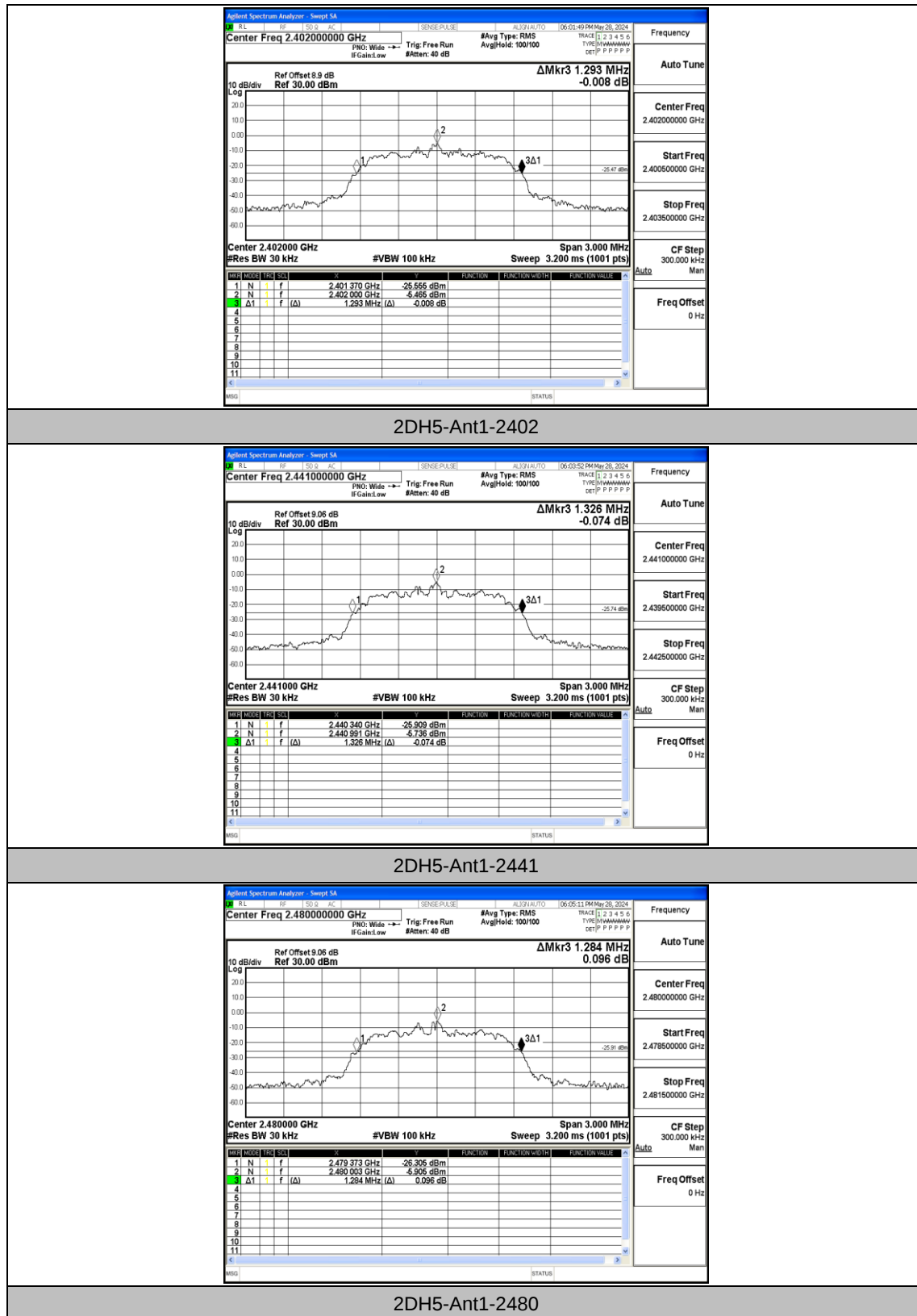
Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.032	2401.478	2402.510	---	---
DH5	Ant1	2441	0.993	2440.511	2441.504	---	---
DH5	Ant1	2480	0.963	2479.538	2480.501	---	---
2DH5	Ant1	2402	1.293	2401.370	2402.663	---	---
2DH5	Ant1	2441	1.326	2440.340	2441.666	---	---
2DH5	Ant1	2480	1.284	2479.373	2480.657	---	---

Test Graphs



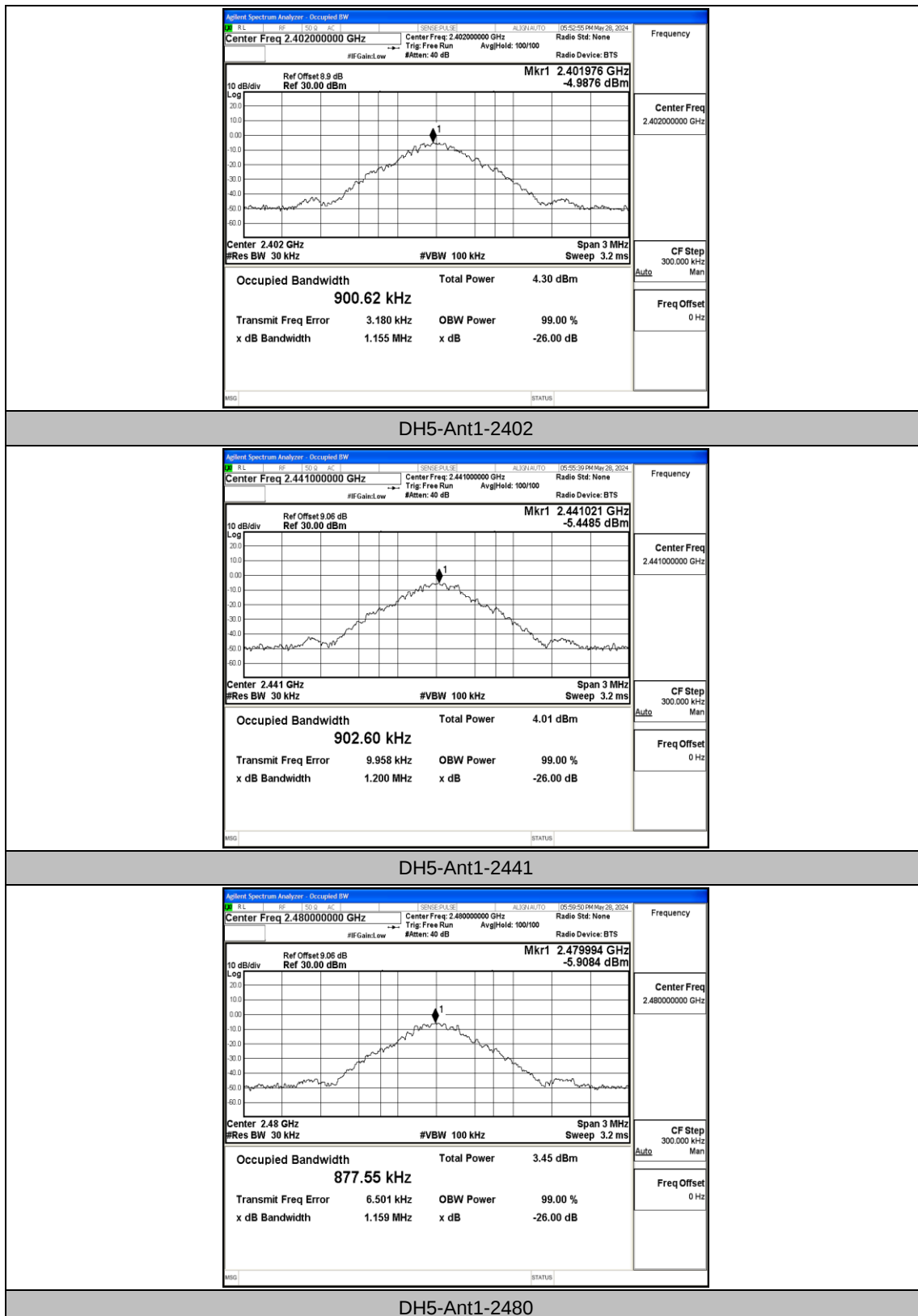


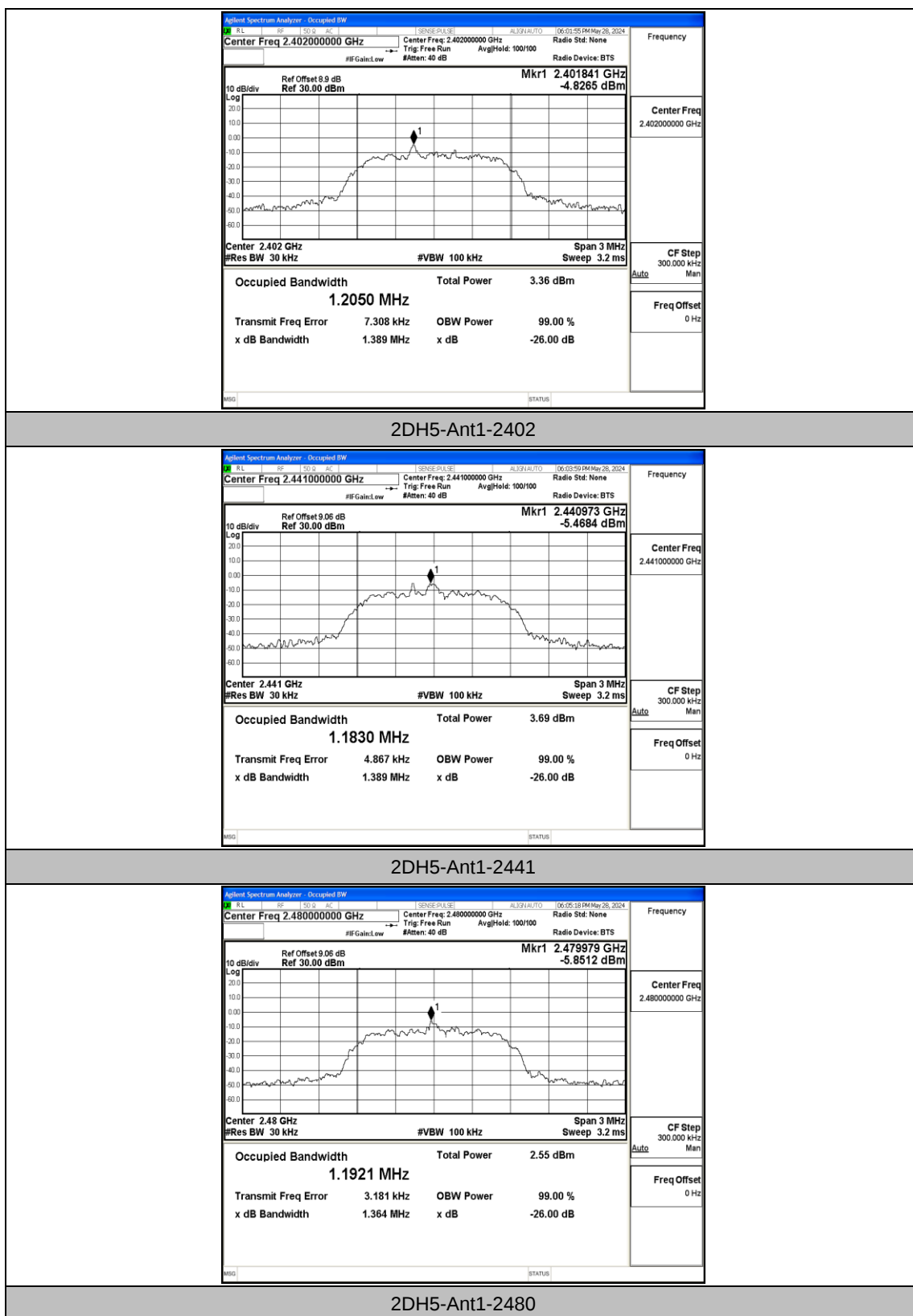
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.90062	2401.5529	2402.4535	---	---
DH5	Ant1	2441	0.90260	2440.5587	2441.4613	---	---
DH5	Ant1	2480	0.87755	2479.5677	2480.4453	---	---
2DH5	Ant1	2402	1.2050	2401.4048	2402.6098	---	---
2DH5	Ant1	2441	1.1830	2440.4134	2441.5964	---	---
2DH5	Ant1	2480	1.1921	2479.4071	2480.5992	---	---

Test Graphs



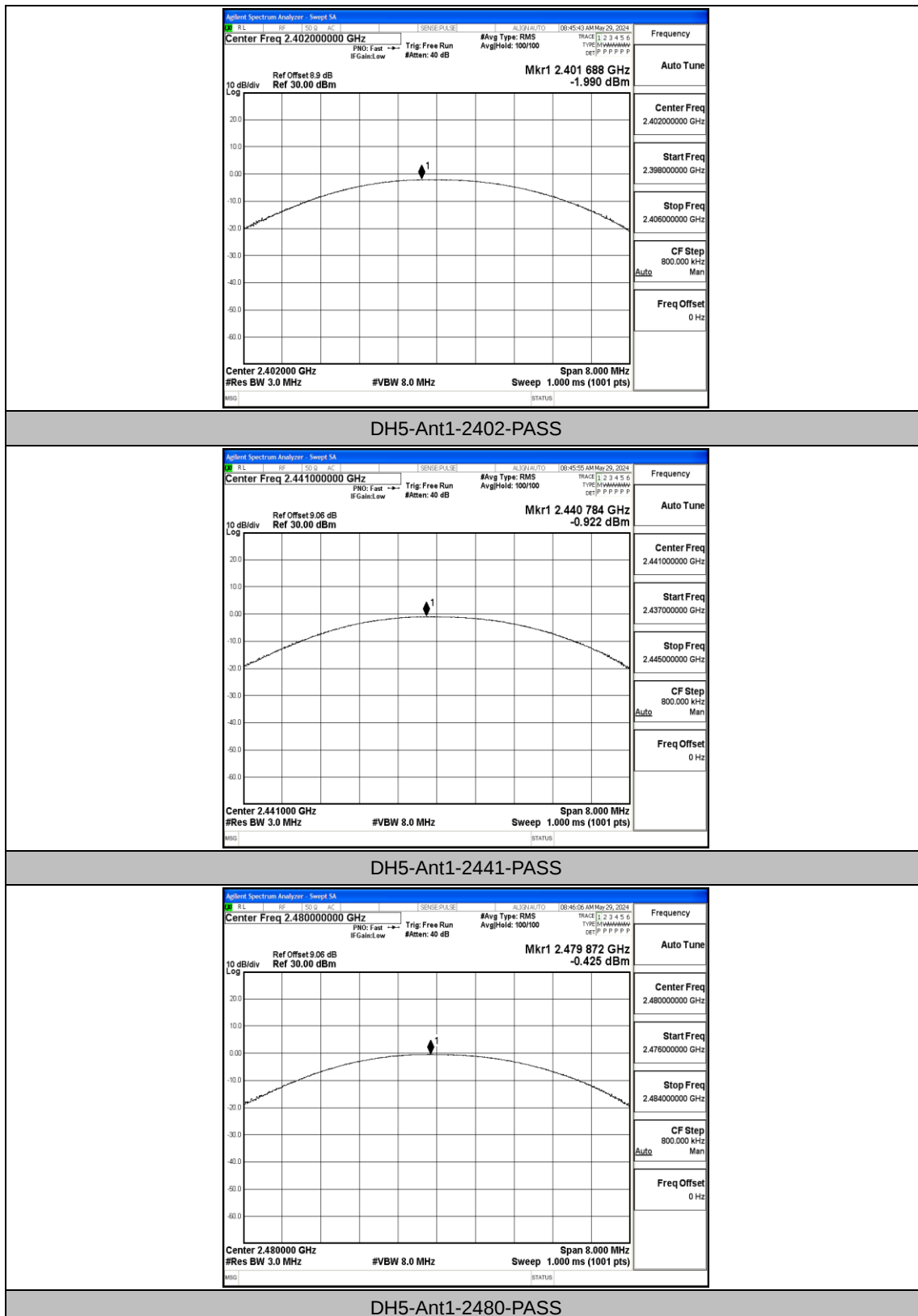


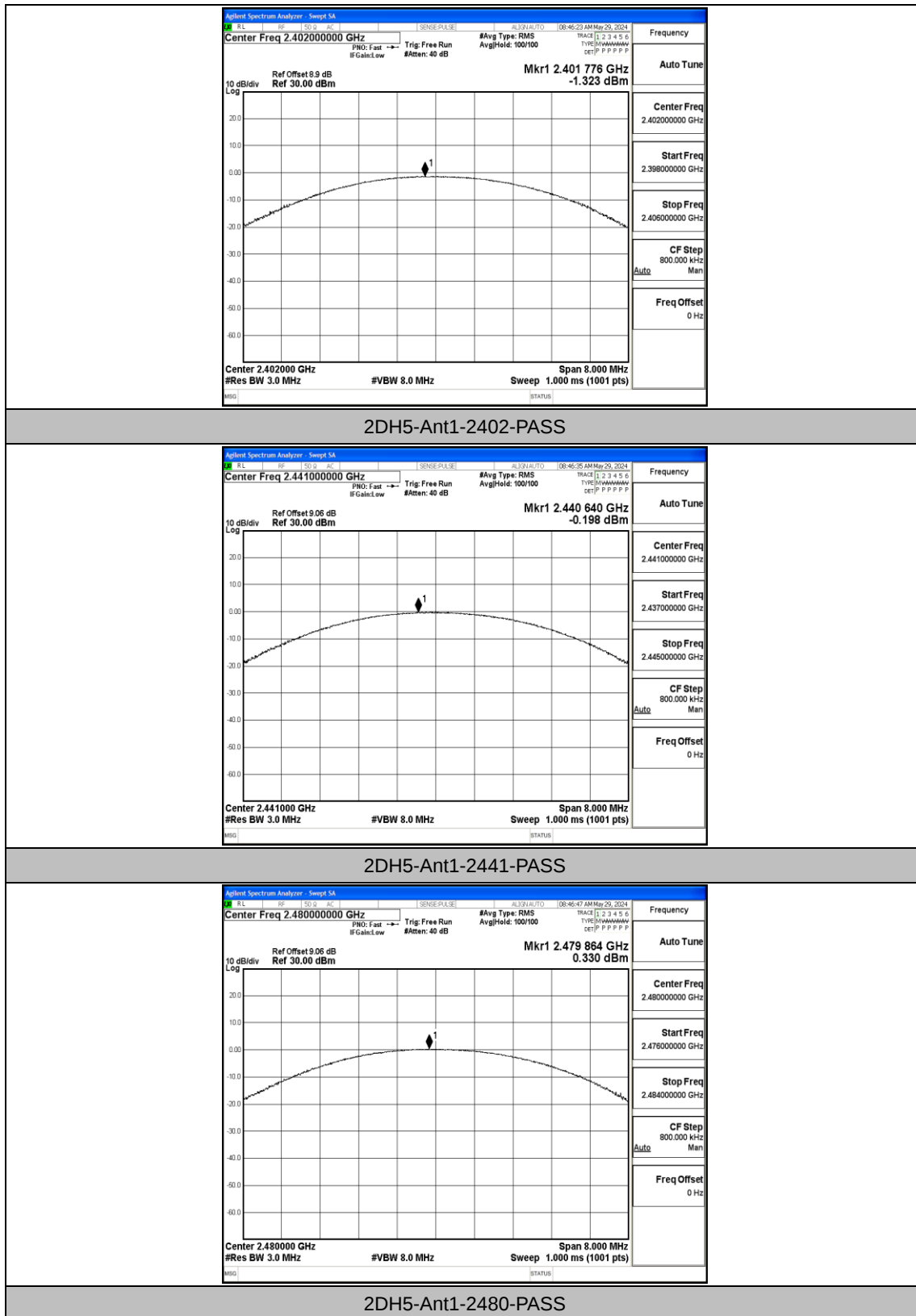
Appendix C: Maximum peak conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-1.99	≤20.97	PASS
DH5	Ant1	2441	-0.92	≤20.97	PASS
DH5	Ant1	2480	-0.43	≤20.97	PASS
2DH5	Ant1	2402	-1.32	≤20.97	PASS
2DH5	Ant1	2441	-0.20	≤20.97	PASS
2DH5	Ant1	2480	0.33	≤20.97	PASS

Test Graphs



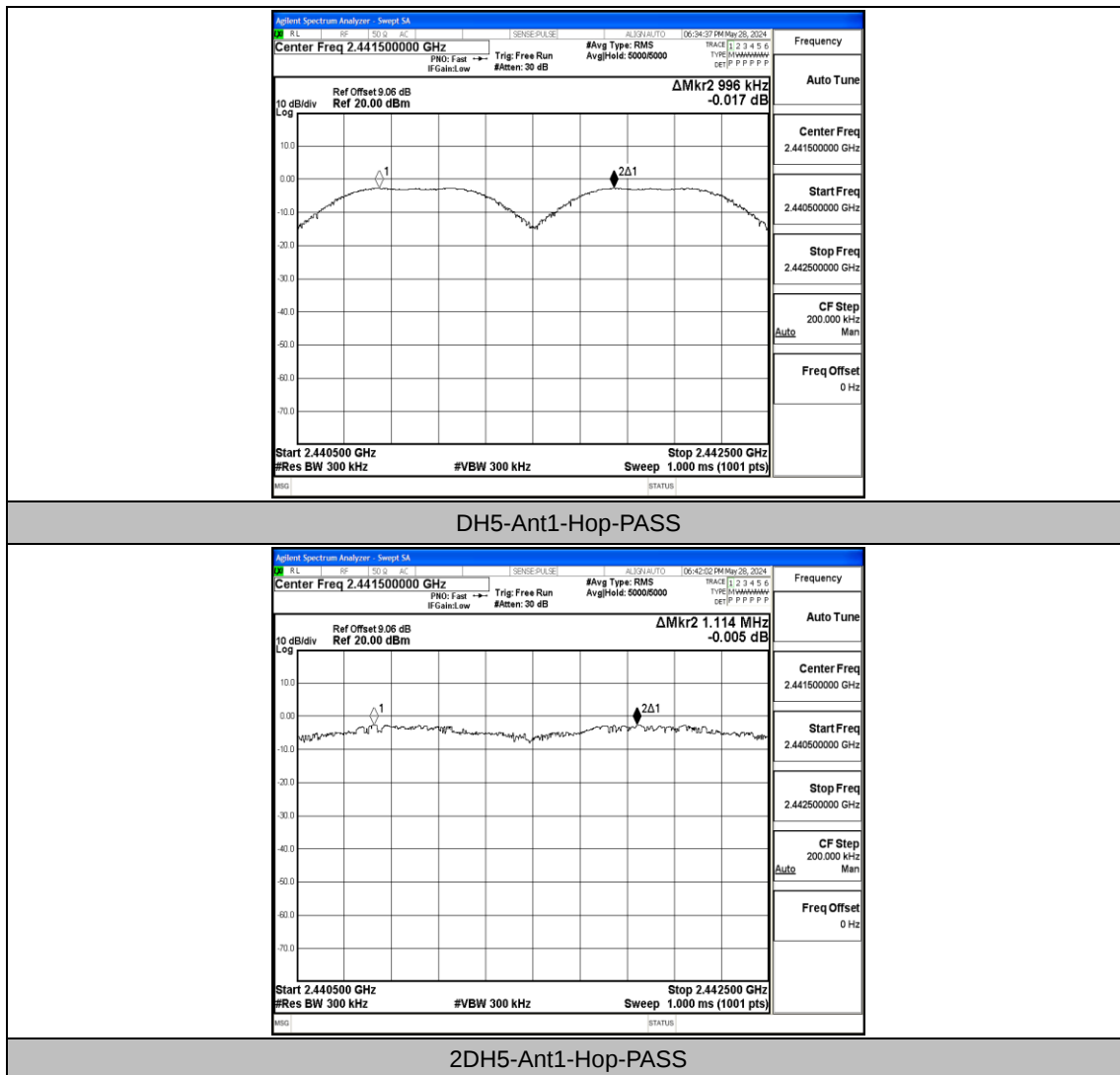


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.688	PASS
2DH5	Ant1	Hop	1.114	≥ 0.884	PASS

Test Graphs

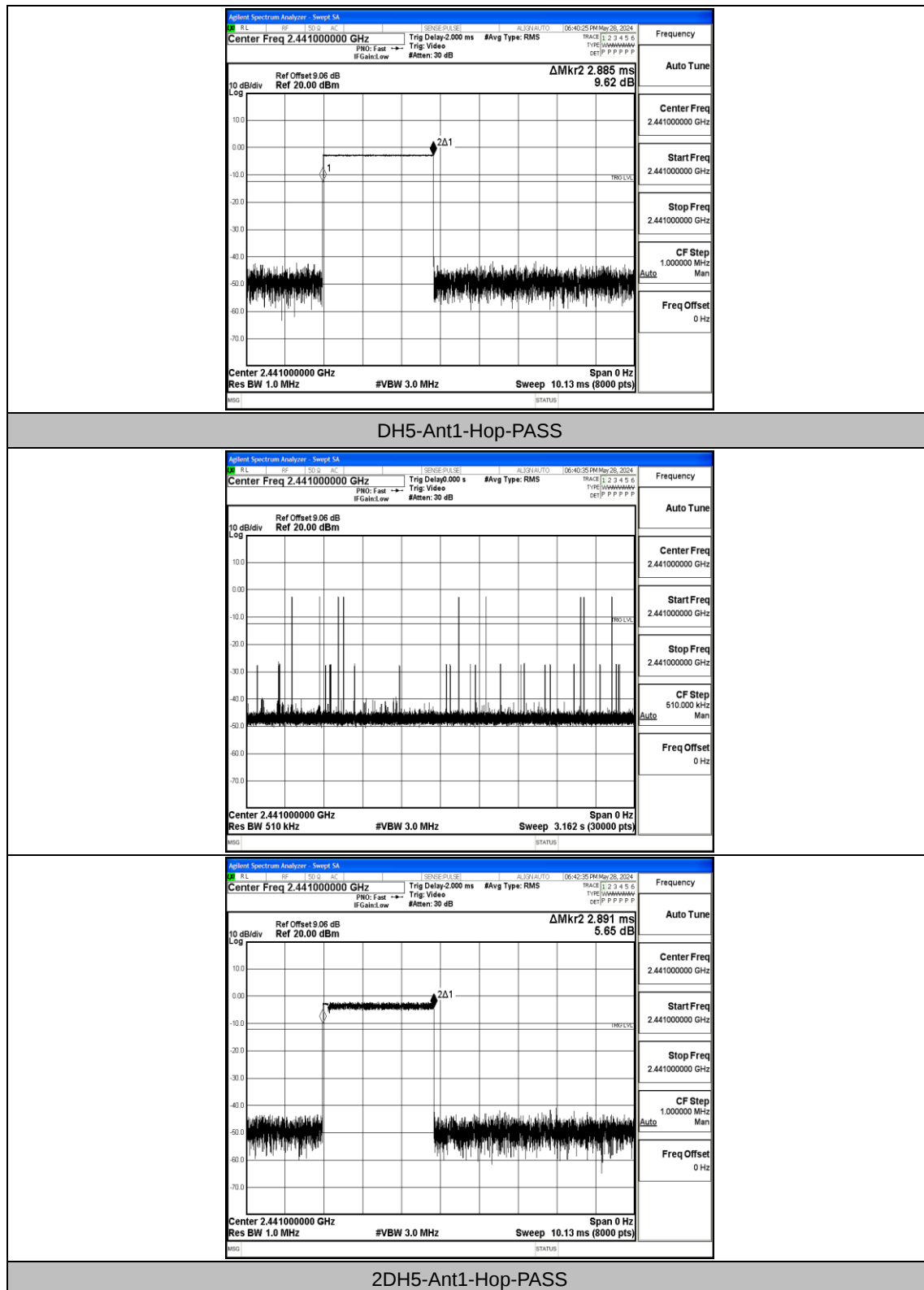


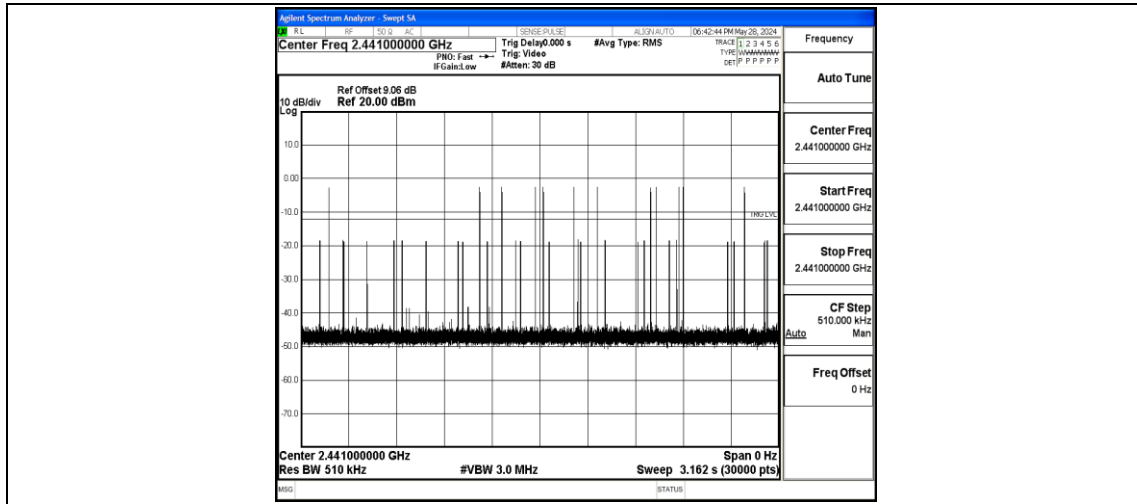
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	100	0.289	≤0.4	PASS
2DH5	Ant1	Hop	2.891	130	0.376	≤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

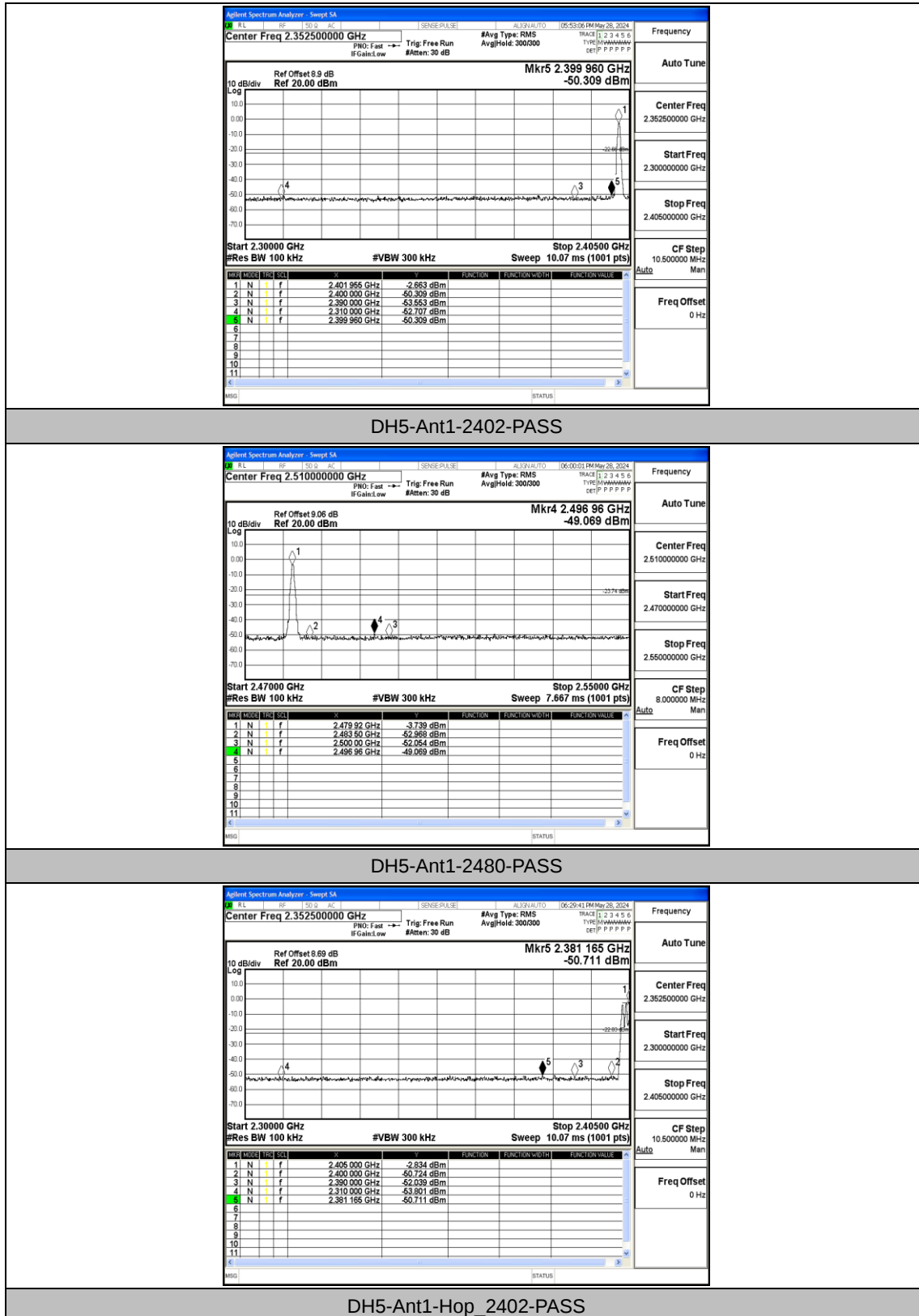


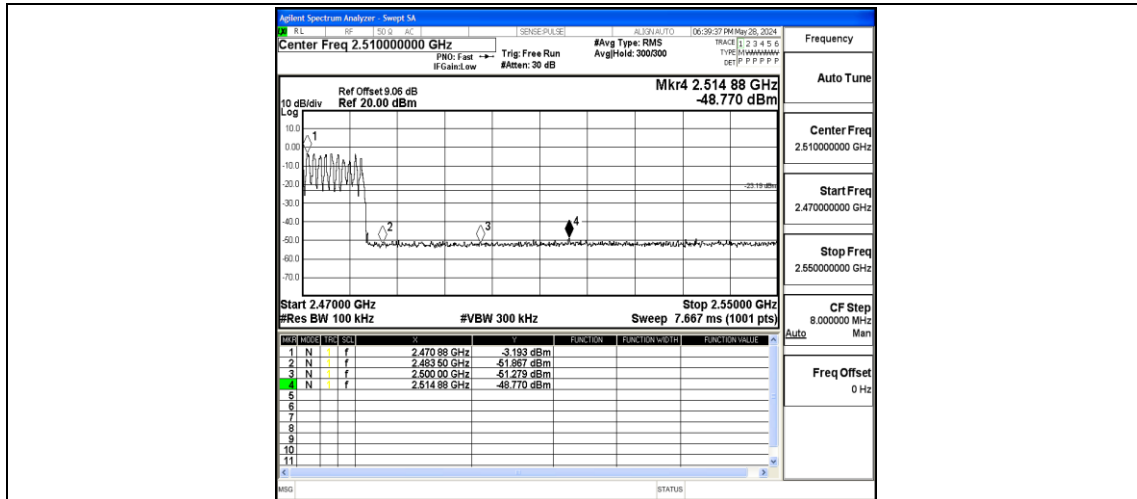
Appendix G: Band edge measurements

Test Result

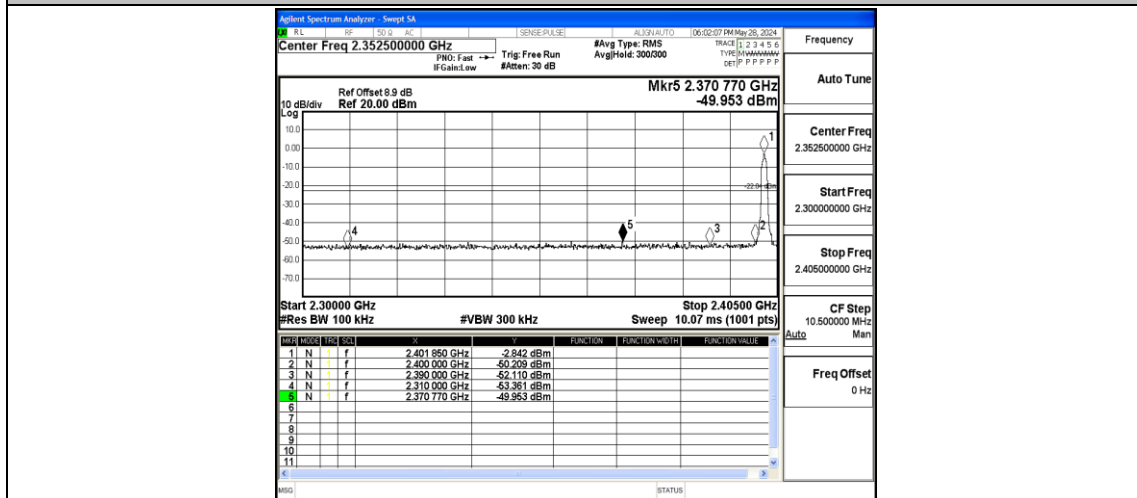
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.66	-50.31	≤-22.66	PASS
DH5	Ant1	High	2480	-3.74	-49.07	≤-23.74	PASS
DH5	Ant1	Low	Hop_2402	-2.83	-50.71	≤-22.83	PASS
DH5	Ant1	High	Hop_2480	-3.19	-48.77	≤-23.19	PASS
2DH5	Ant1	Low	2402	-2.84	-49.95	≤-22.84	PASS
2DH5	Ant1	High	2480	-3.63	-49.53	≤-23.63	PASS
2DH5	Ant1	Low	Hop_2402	-2.70	-50.52	≤-22.7	PASS
2DH5	Ant1	High	Hop_2480	-4.45	-48.79	≤-24.45	PASS

Test Graphs

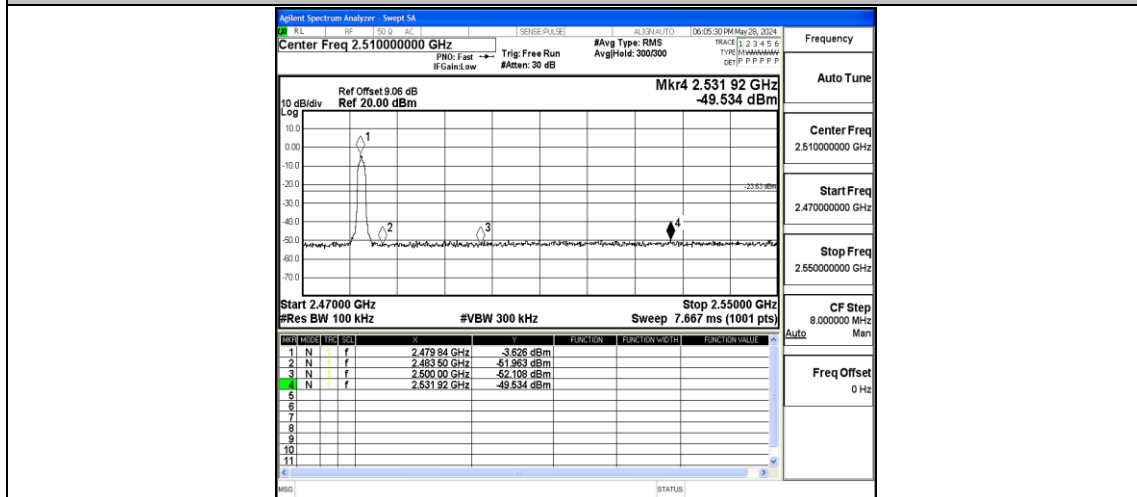




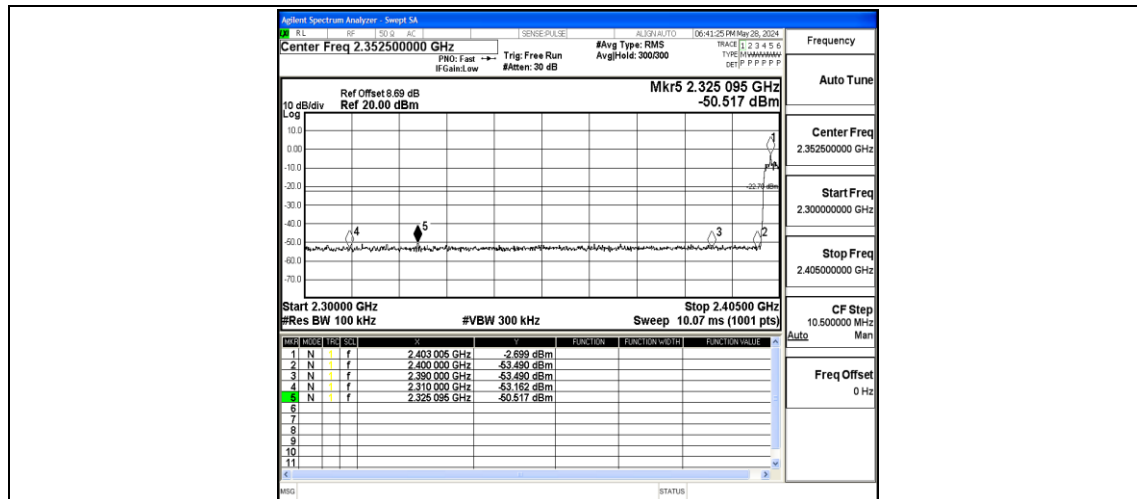
DH5-Ant1-Hop_2480-PASS



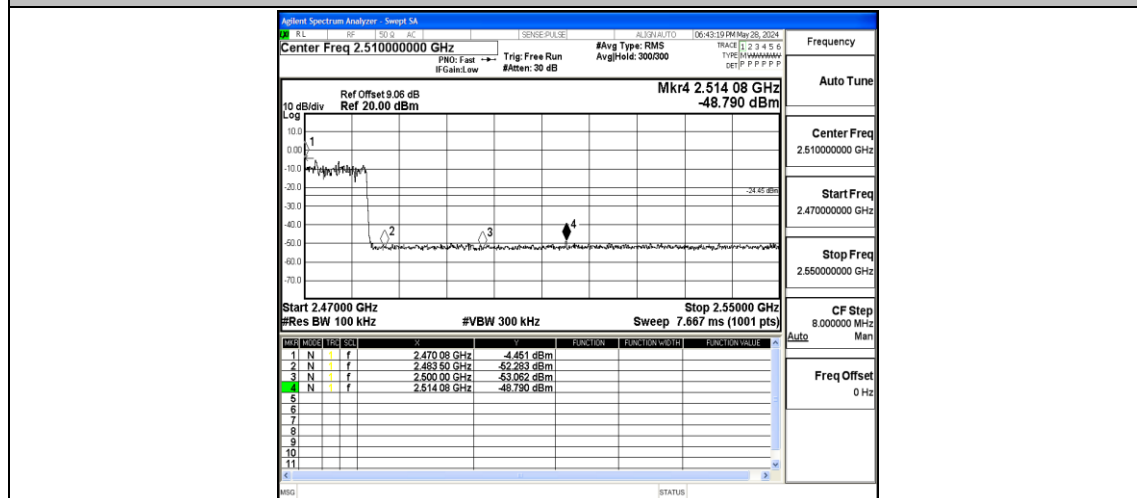
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



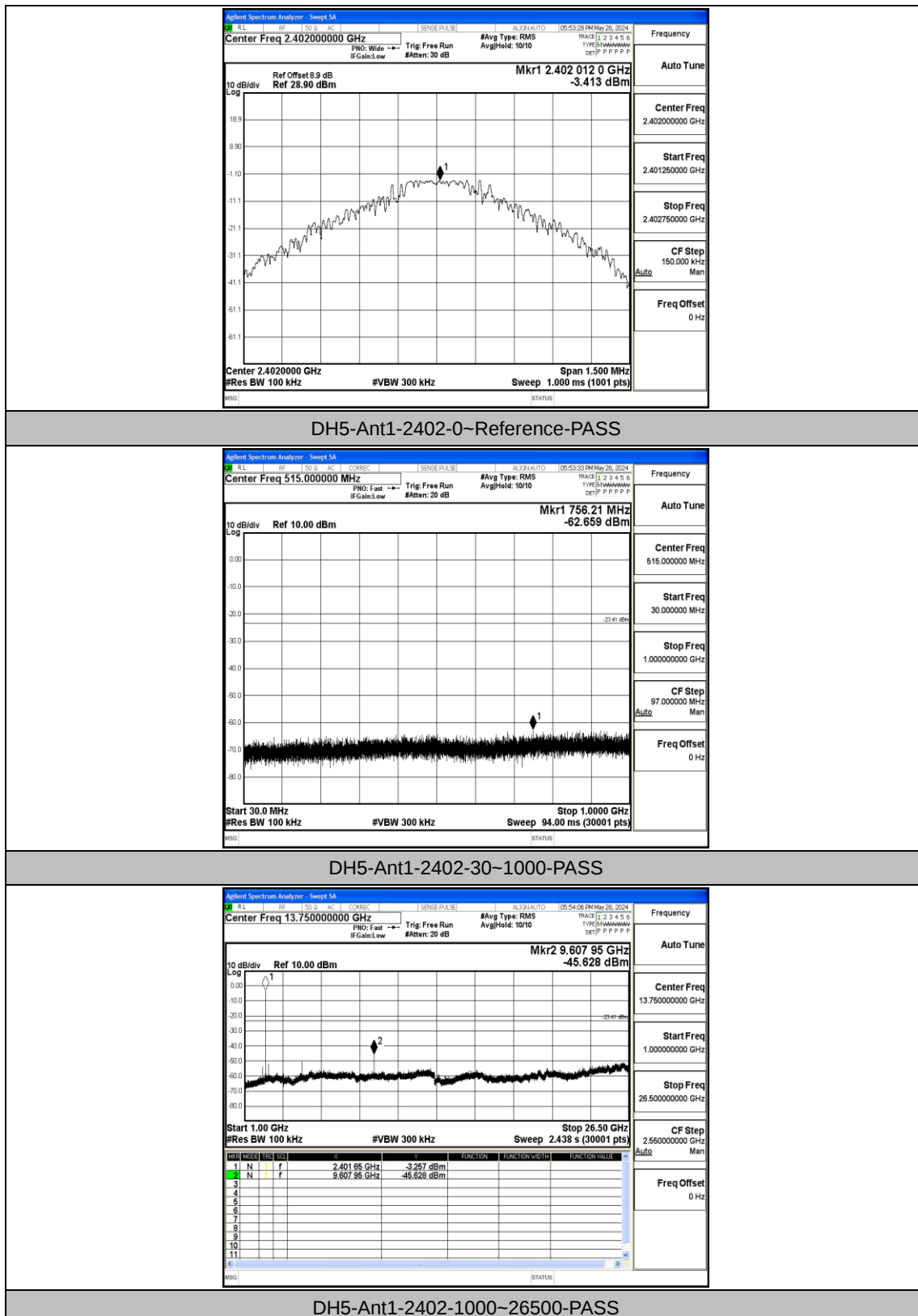
2DH5-Ant1-Hop_2480-PASS

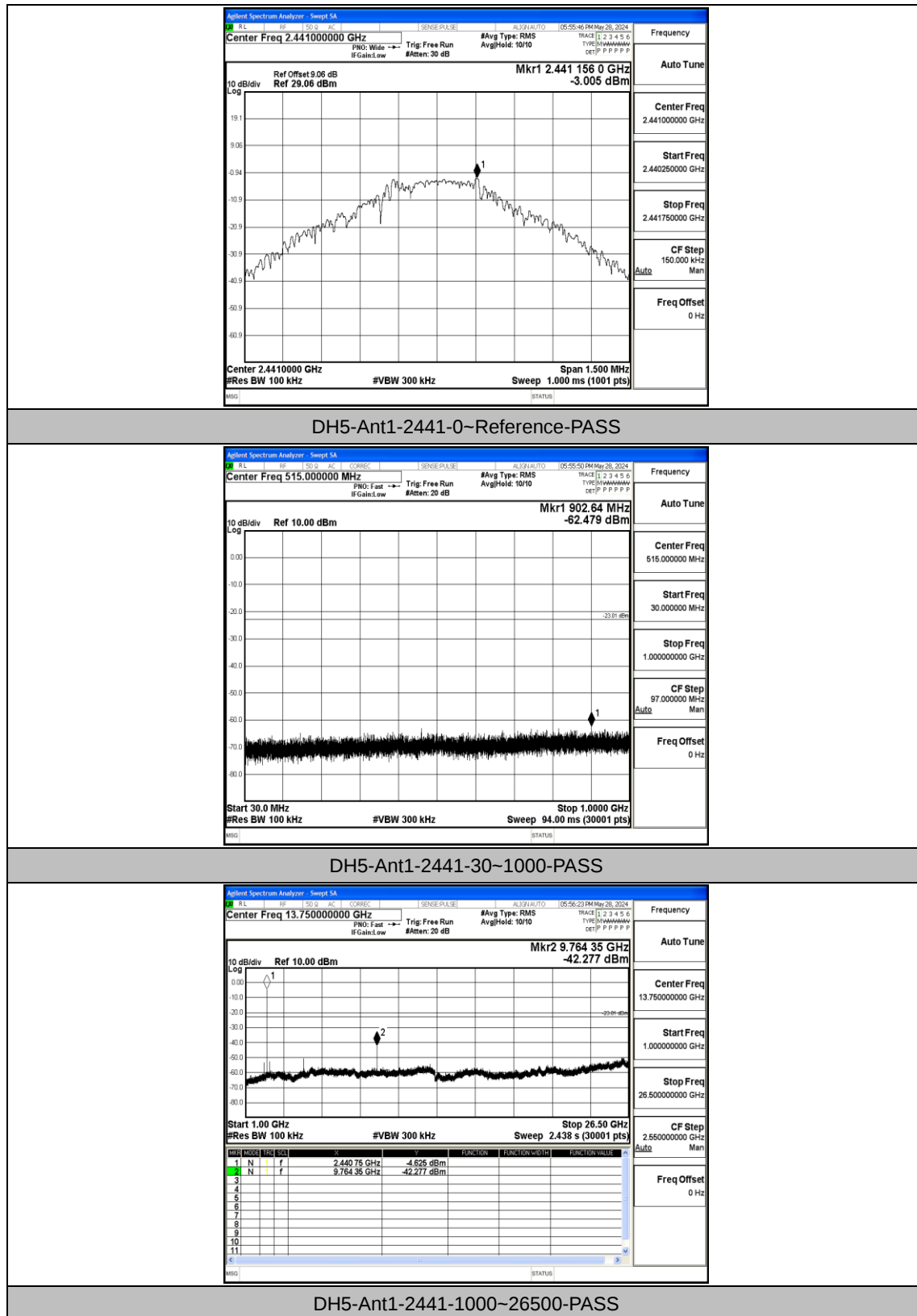
Appendix H: Conducted Spurious Emission

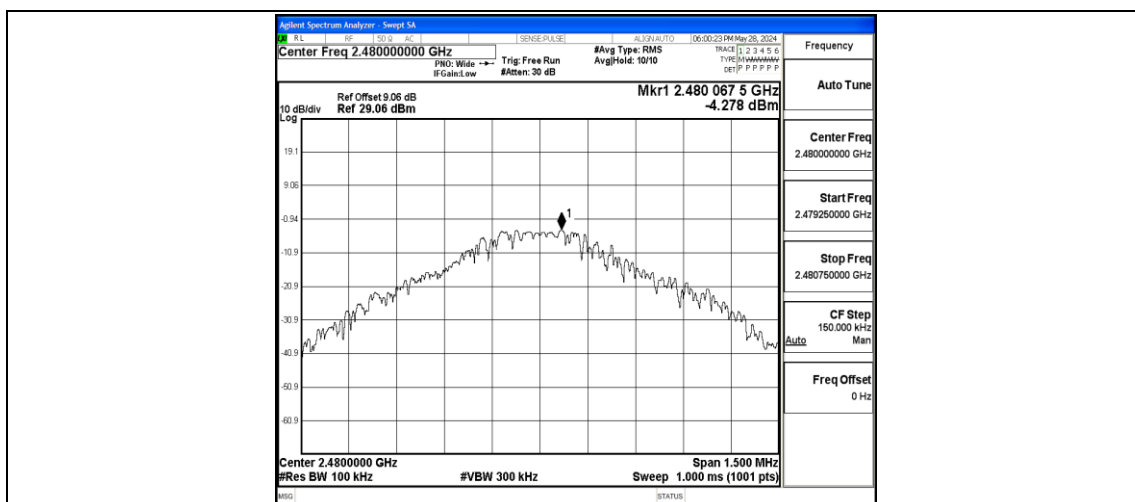
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-3.41	-3.41	---	PASS
DH5	Ant1	2402	30~1000	-3.41	-62.66	≤-23.41	PASS
DH5	Ant1	2402	1000~26500	-3.41	-45.63	≤-23.41	PASS
DH5	Ant1	2441	0~Reference	-3.01	-3.01	---	PASS
DH5	Ant1	2441	30~1000	-3.01	-62.48	≤-23.01	PASS
DH5	Ant1	2441	1000~26500	-3.01	-42.28	≤-23.01	PASS
DH5	Ant1	2480	0~Reference	-4.28	-4.28	---	PASS
DH5	Ant1	2480	30~1000	-4.28	-62.86	≤-24.28	PASS
DH5	Ant1	2480	1000~26500	-4.28	-46.24	≤-24.28	PASS
2DH5	Ant1	2402	0~Reference	-2.68	-2.68	---	PASS
2DH5	Ant1	2402	30~1000	-2.68	-62.41	≤-22.68	PASS
2DH5	Ant1	2402	1000~26500	-2.68	-45.41	≤-22.68	PASS
2DH5	Ant1	2441	0~Reference	-2.82	-2.82	---	PASS
2DH5	Ant1	2441	30~1000	-2.82	-62.4	≤-22.82	PASS
2DH5	Ant1	2441	1000~26500	-2.82	-42.82	≤-22.82	PASS
2DH5	Ant1	2480	0~Reference	-6.81	-6.81	---	PASS
2DH5	Ant1	2480	30~1000	-6.81	-62.18	≤-26.81	PASS
2DH5	Ant1	2480	1000~26500	-6.81	-46.43	≤-26.81	PASS

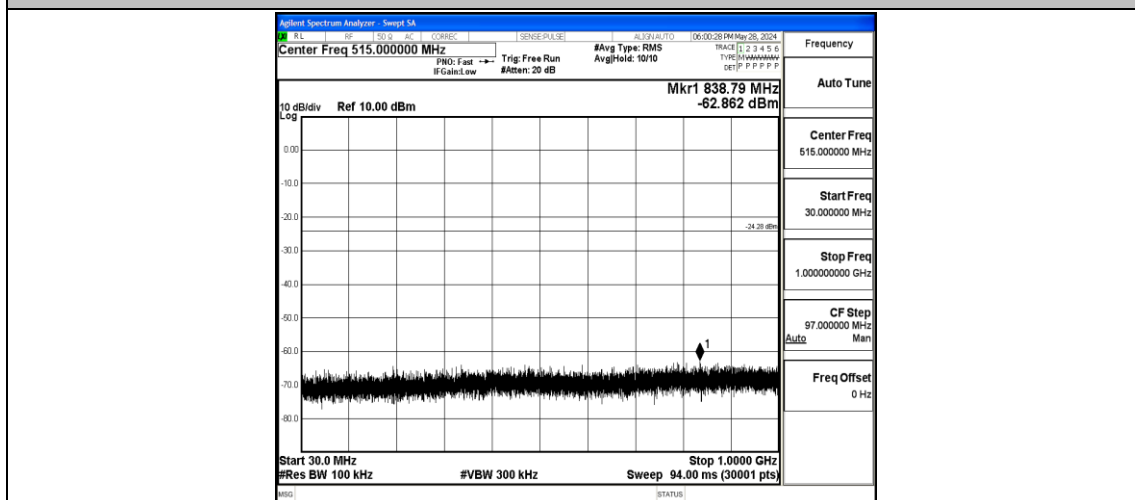
Test Graphs



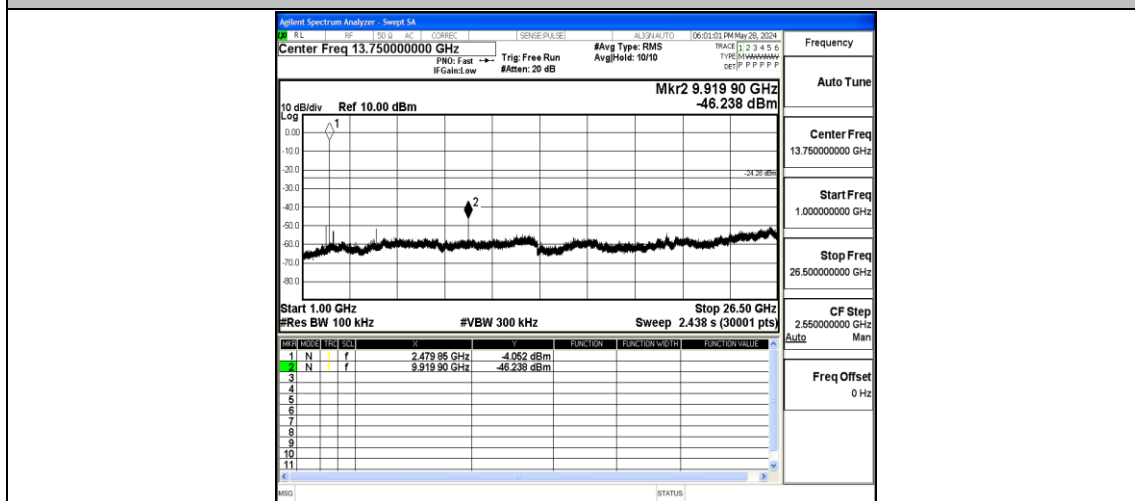




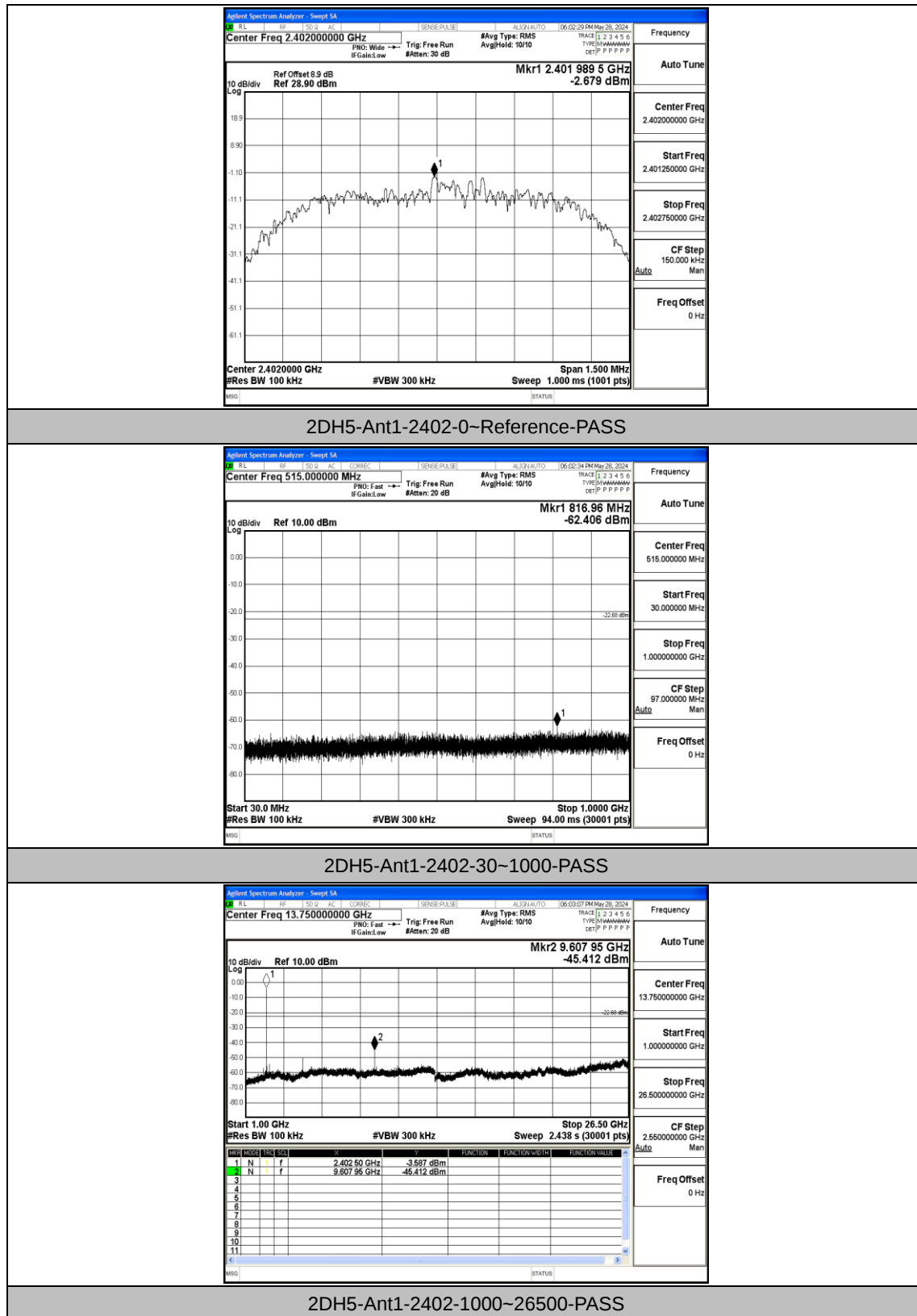
DH5-Ant1-2480-0~Reference-PASS

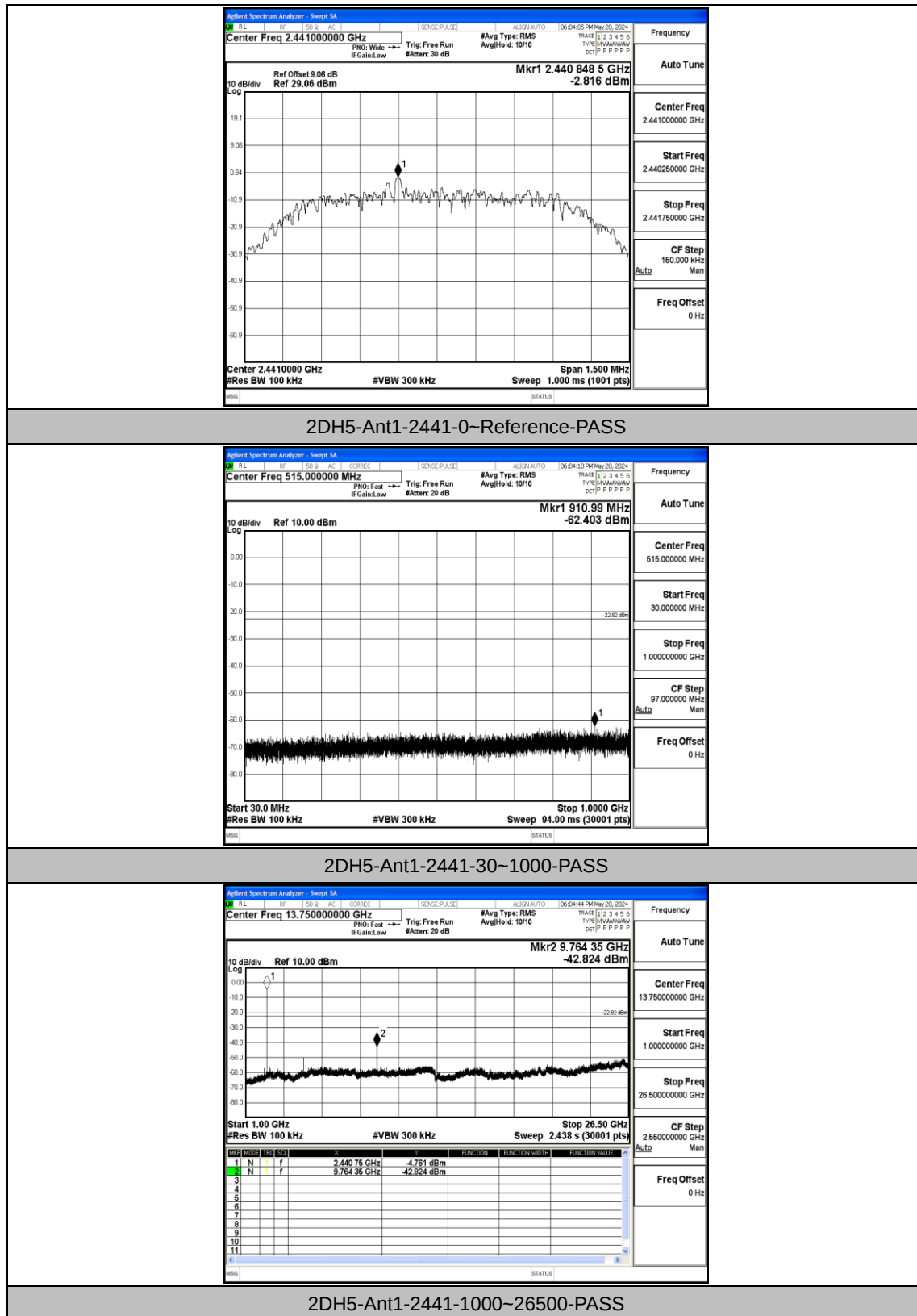


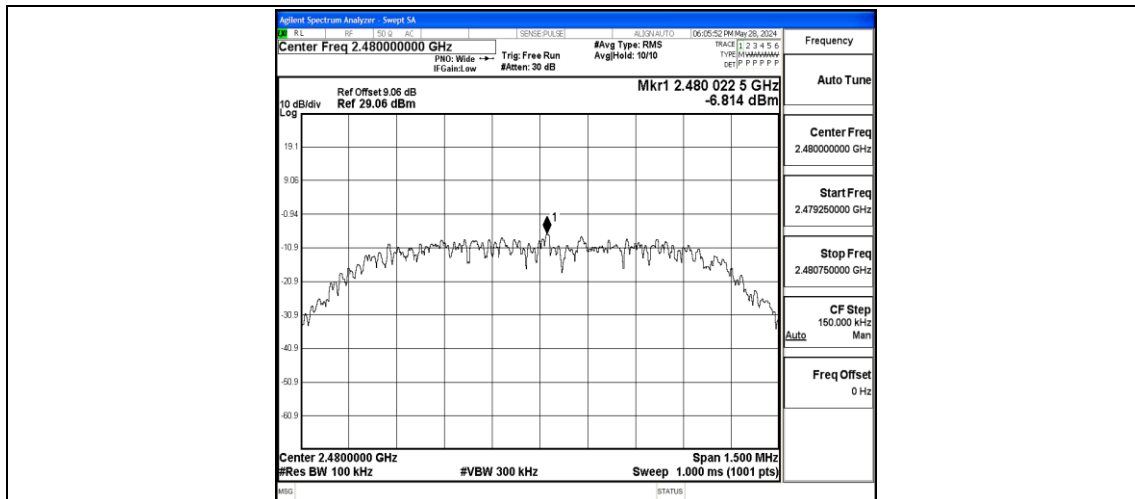
DH5-Ant1-2480-30~1000-PASS



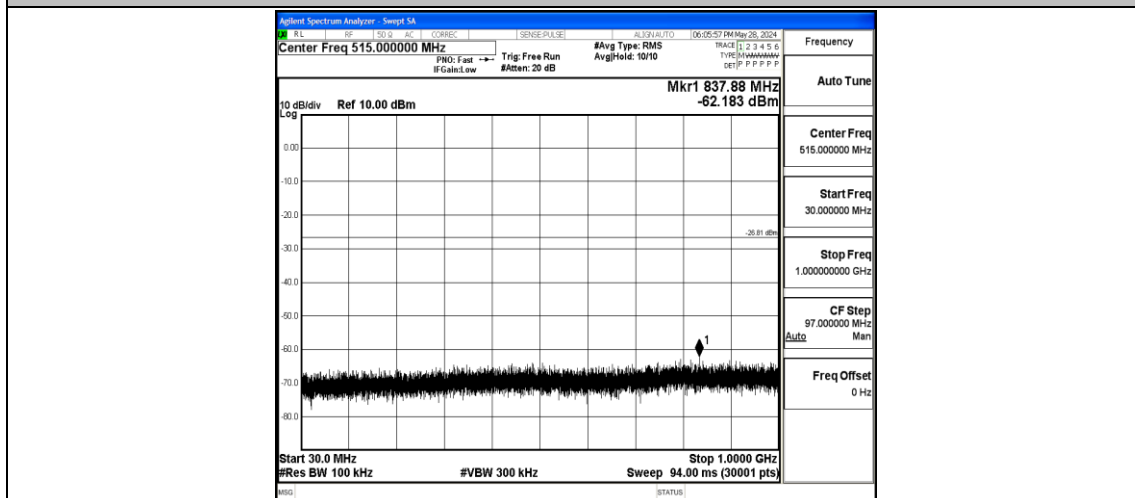
DH5-Ant1-2480-1000~26500-PASS



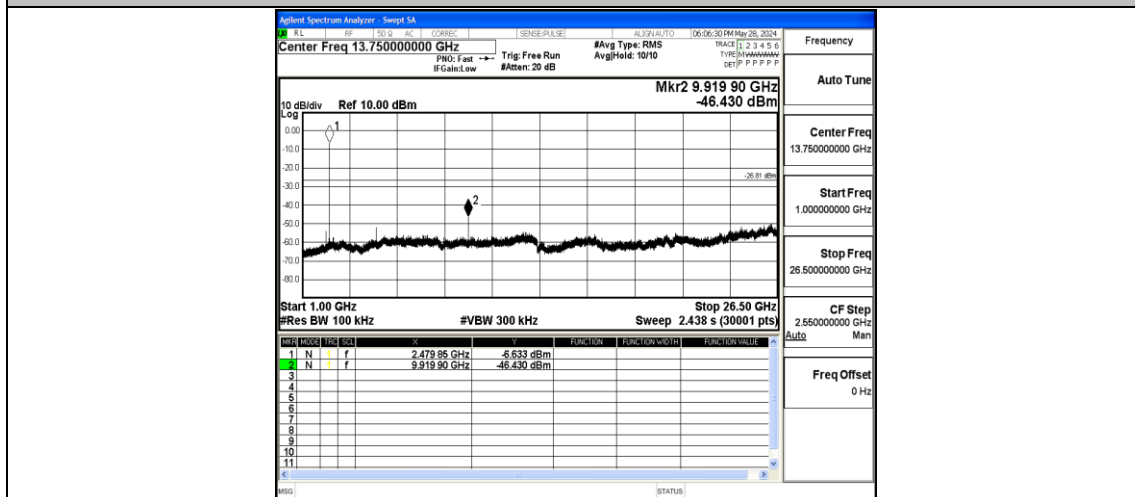




2DH5-Ant1-2480-0~Reference-PASS



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



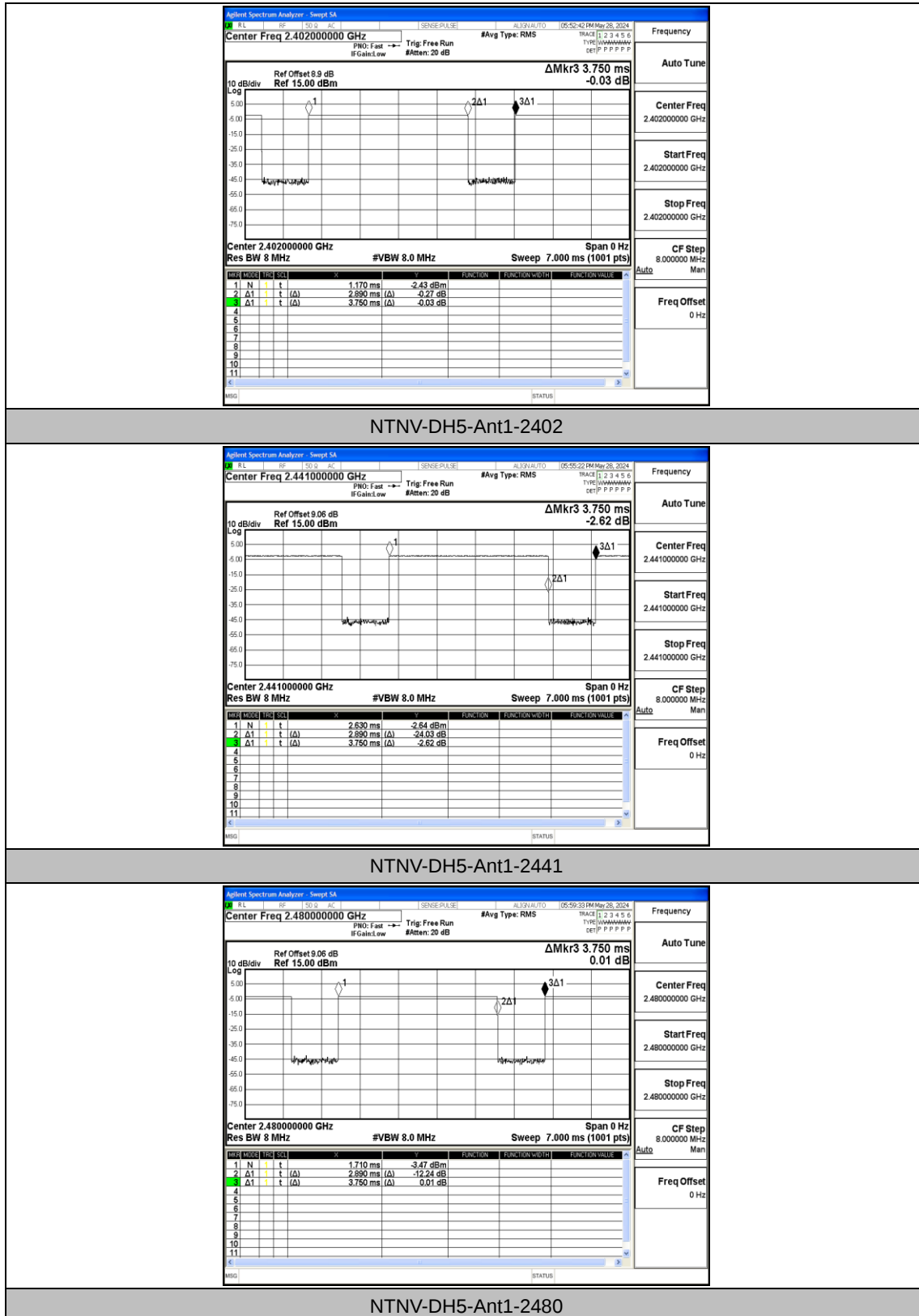
2DH5-Ant1-2480-1000~26500-PASS

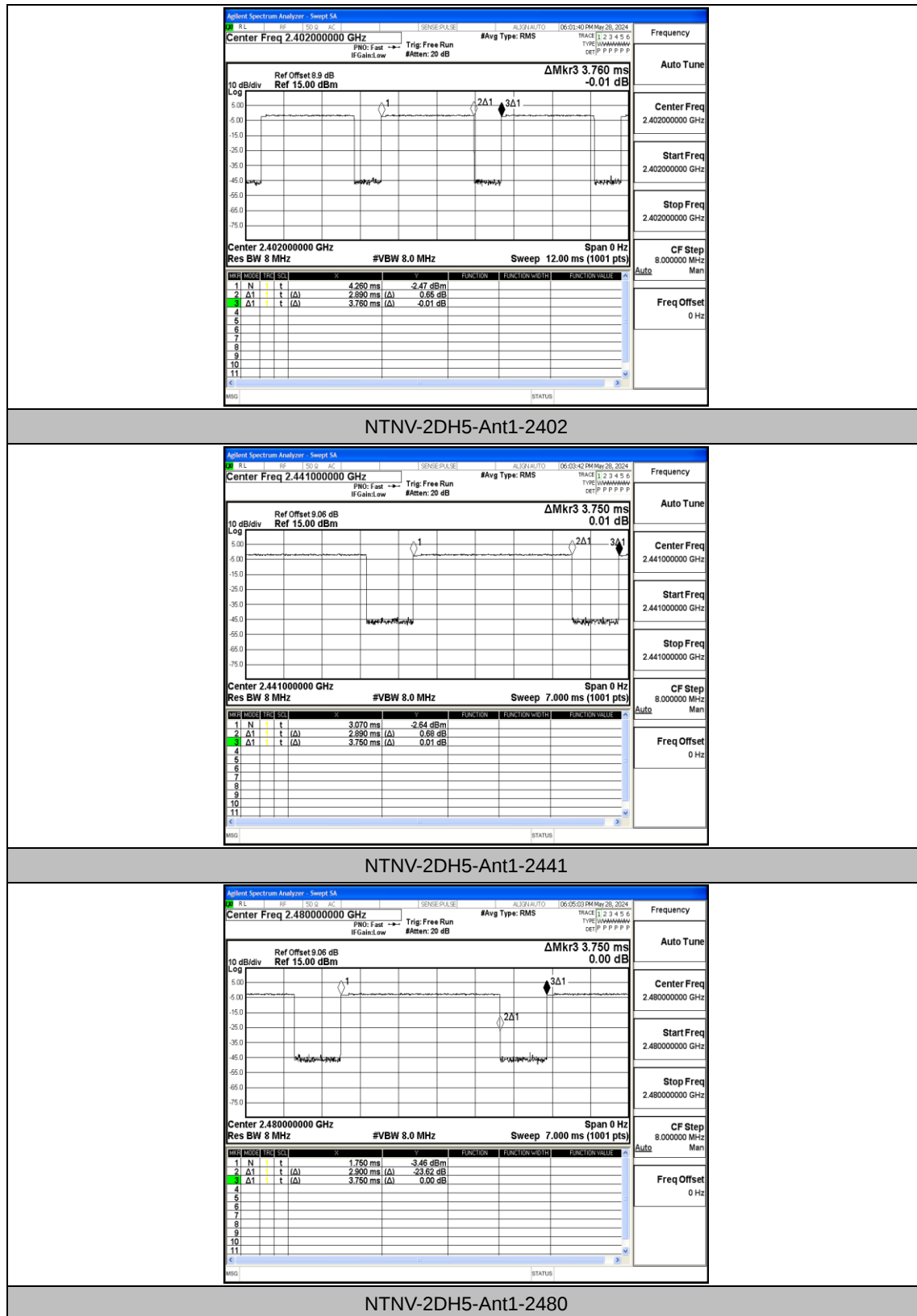
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
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	3.76	76.86	1.14
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.90	3.75	77.33	1.12

Test Graphs





Appendix J: Emissions in Restricted Bands

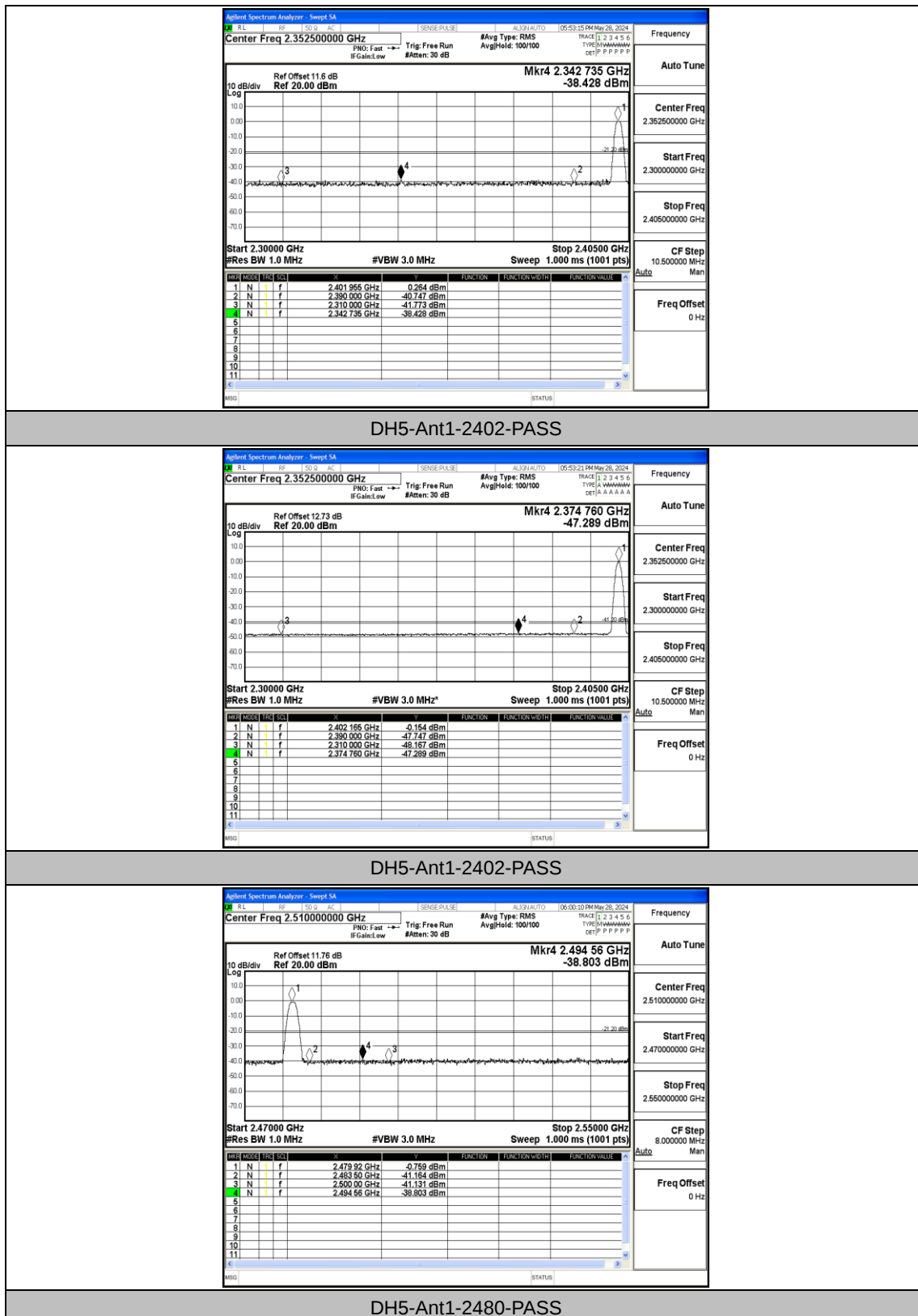
Test Result

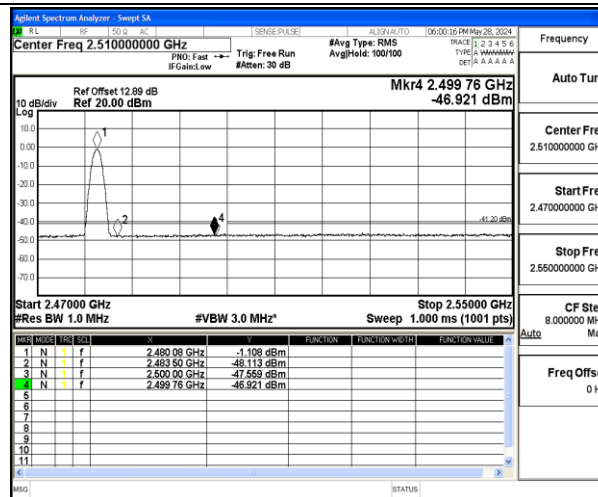
TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	Peak	2390.000	-40.75	≤-21.20	54.45	≤74	PASS
DH5	Ant1	Low	2402	Peak	2310.000	-41.77	≤-21.20	53.43	≤74	PASS
DH5	Ant1	Low	2402	Peak	2342.735	-38.43	≤-21.20	56.77	≤74	PASS
DH5	Ant1	Low	2402	AV	2390.000	-47.75	≤-41.20	47.45	≤54	PASS
DH5	Ant1	Low	2402	AV	2310.000	-48.17	≤-41.20	47.03	≤54	PASS
DH5	Ant1	Low	2402	AV	2374.760	-47.29	≤-41.20	47.91	≤54	PASS
DH5	Ant1	High	2480	Peak	2483.500	-41.16	≤-21.20	54.04	≤74	PASS
DH5	Ant1	High	2480	Peak	2500.000	-41.13	≤-21.20	54.07	≤74	PASS
DH5	Ant1	High	2480	Peak	2494.560	-38.8	≤-21.20	56.40	≤74	PASS
DH5	Ant1	High	2480	AV	2483.500	-48.11	≤-41.20	47.09	≤54	PASS
DH5	Ant1	High	2480	AV	2500.000	-47.56	≤-41.20	47.64	≤54	PASS
DH5	Ant1	High	2480	AV	2499.760	-46.92	≤-41.20	48.28	≤54	PASS
2DH5	Ant1	Low	2402	Peak	2390.000	-41.81	≤-21.20	53.39	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2310.000	-42.35	≤-21.20	52.85	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2368.670	-38.67	≤-21.20	56.53	≤74	PASS
2DH5	Ant1	Low	2402	AV	2390.000	-48.08	≤-41.20	47.12	≤54	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.89	≤-41.20	46.31	≤54	PASS
2DH5	Ant1	Low	2402	AV	2374.550	-47.28	≤-41.20	47.92	≤54	PASS
2DH5	Ant1	High	2480	Peak	2483.500	-41.04	≤-21.20	54.16	≤74	PASS
2DH5	Ant1	High	2480	Peak	2500.000	-41.44	≤-21.20	53.76	≤74	PASS
2DH5	Ant1	High	2480	Peak	2493.040	-37.82	≤-21.20	57.38	≤74	PASS
2DH5	Ant1	High	2480	AV	2483.500	-47.61	≤-41.20	47.59	≤54	PASS
2DH5	Ant1	High	2480	AV	2500.000	-47.86	≤-41.20	47.34	≤54	PASS
2DH5	Ant1	High	2480	AV	2496.000	-46.84	≤-41.20	48.36	≤54	PASS

Note:

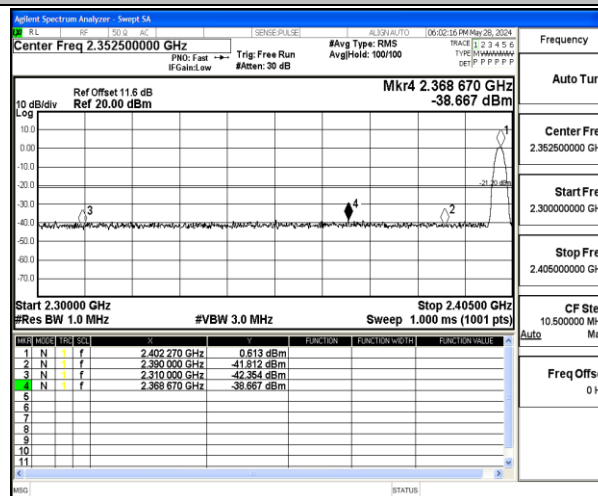
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

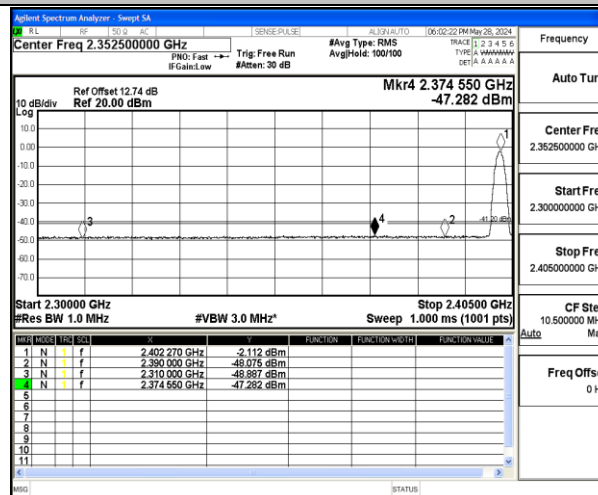




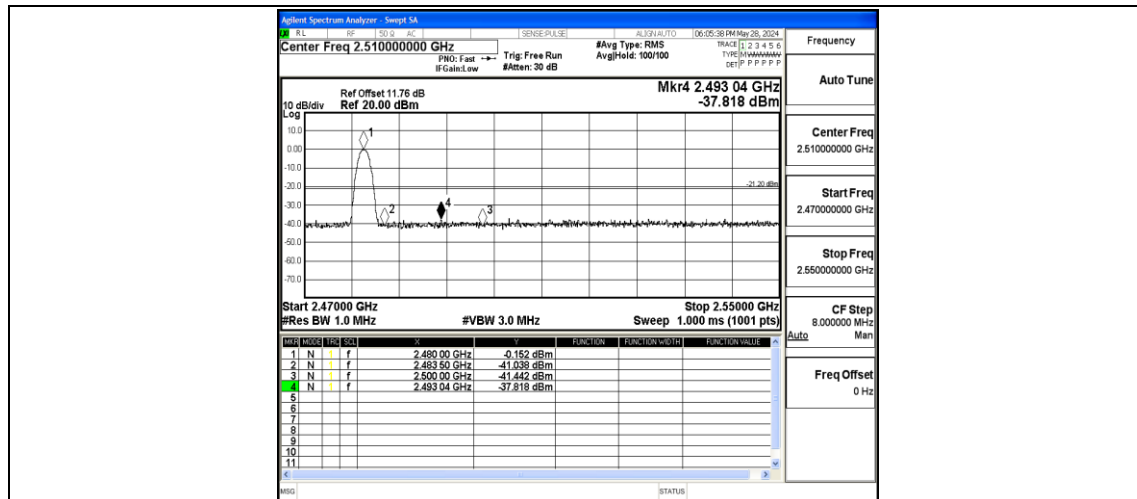
DH5-Ant1-2480-PASS



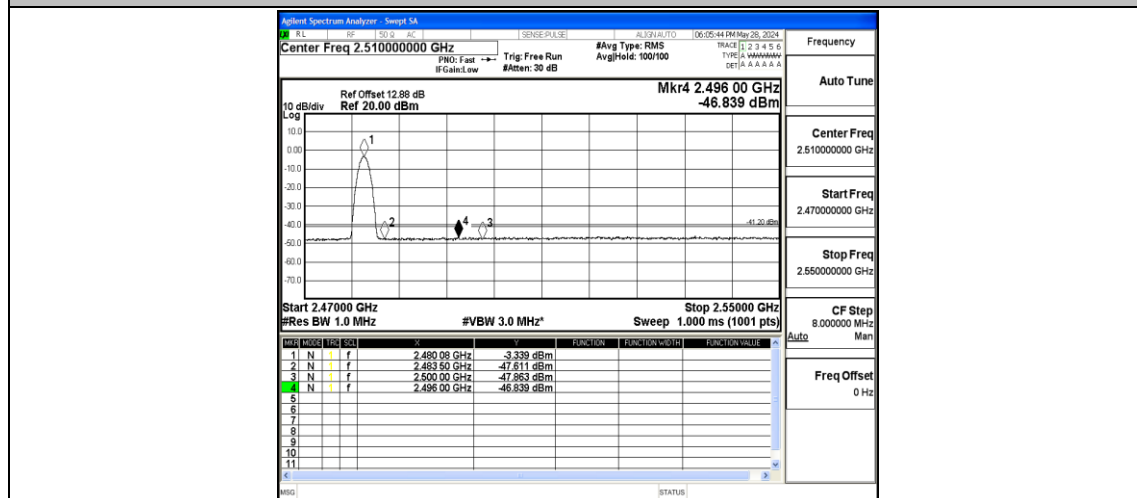
2DH5-Ant1-2402-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-2480-PASS