

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

Product Name: WIRELESS MICROPHONE

Trade Mark: Singing Machine

Test Model: MIC9015

FCC ID: 2AAXO-MIC9015

Environmental Conditions

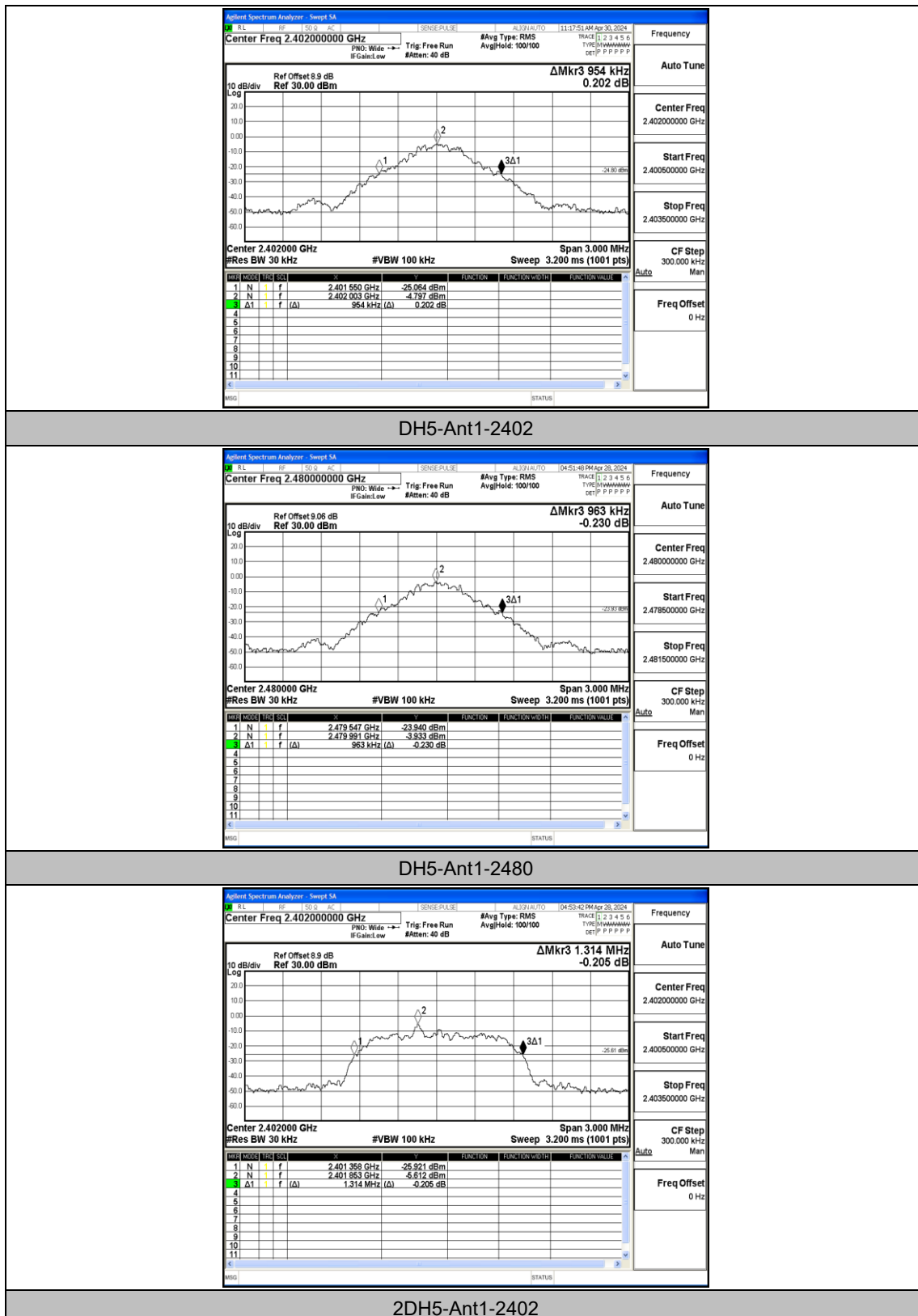
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.550	2402.504	---	---
DH5	Ant1	2480	0.963	2479.547	2480.510	---	---
2DH5	Ant1	2402	1.314	2401.358	2402.672	---	---
2DH5	Ant1	2441	1.308	2440.361	2441.669	---	---
2DH5	Ant1	2480	1.353	2479.343	2480.696	---	---

Test Graphs



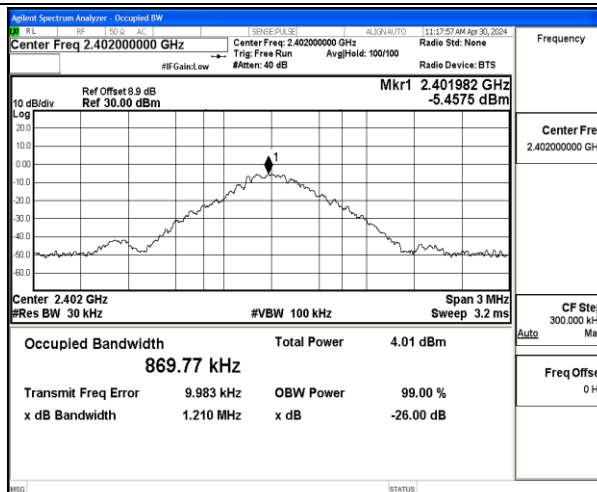
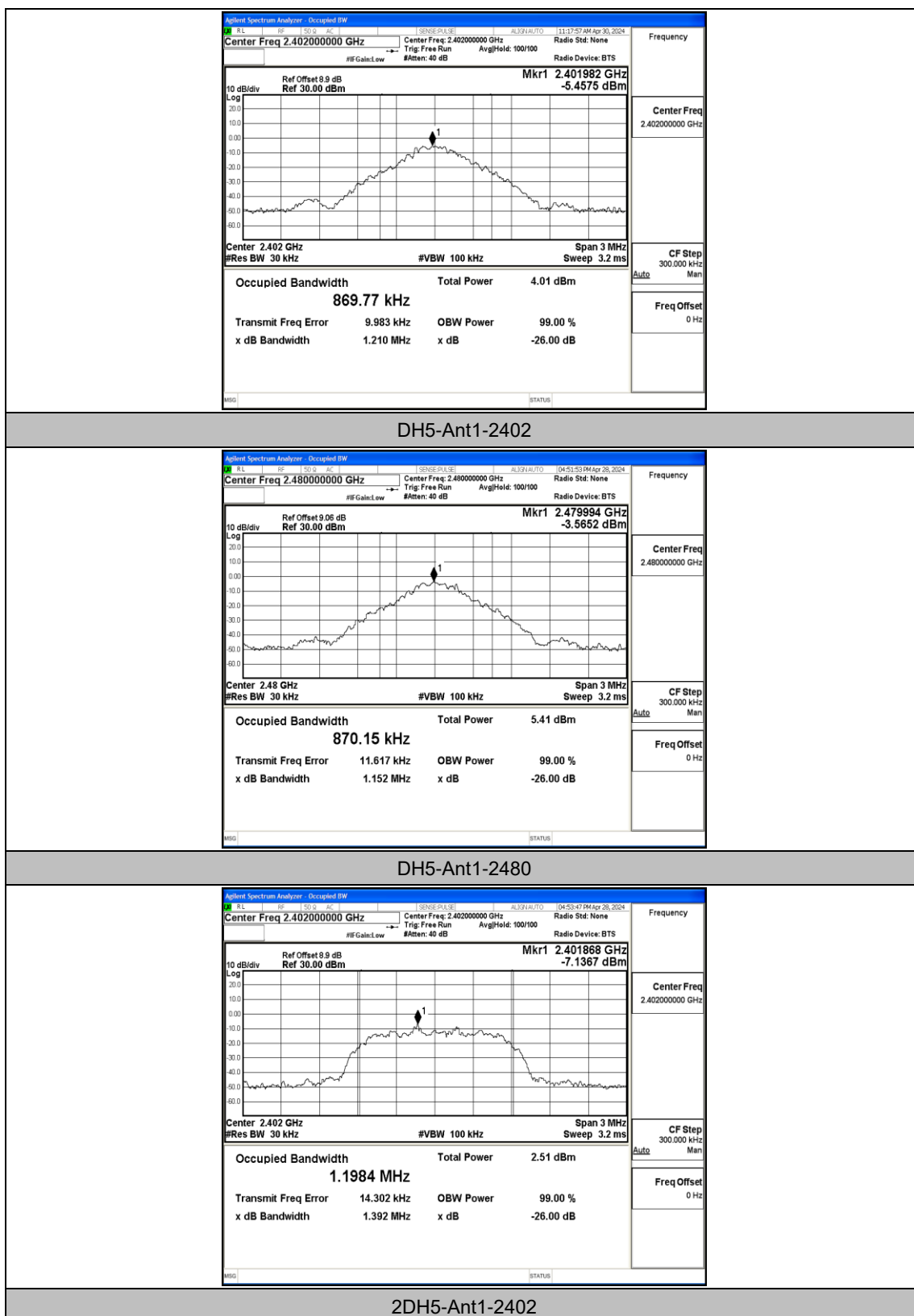


Appendix B: Occupied Channel Bandwidth

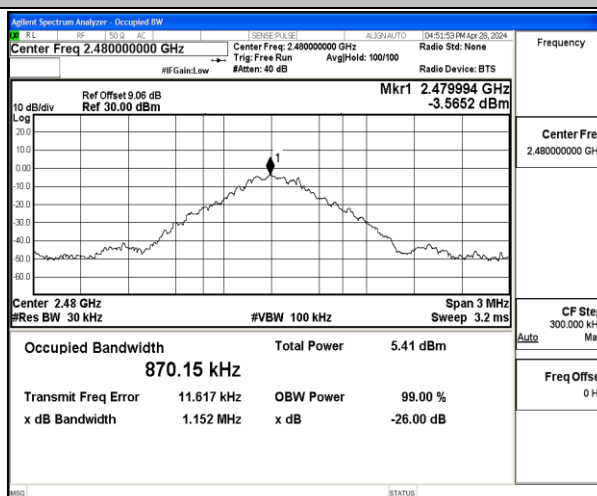
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86977	2401.5751	2402.4449	---	---
DH5	Ant1	2480	0.87015	2479.5765	2480.4467	---	---
2DH5	Ant1	2402	1.1984	2401.4151	2402.6135	---	---
2DH5	Ant1	2441	1.1932	2440.4195	2441.6127	---	---
2DH5	Ant1	2480	1.1931	2479.4183	2480.6114	---	---

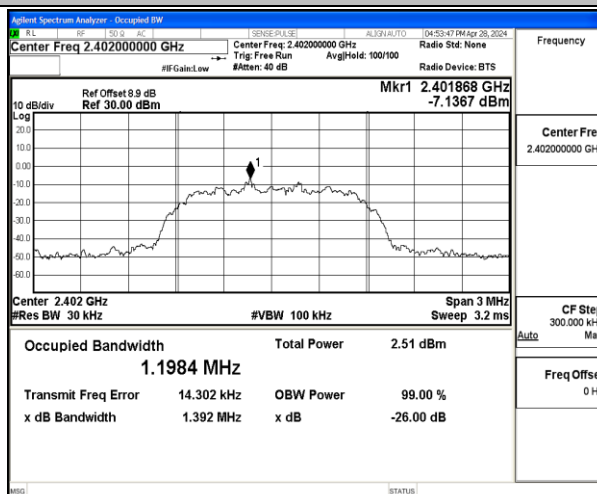
Test Graphs



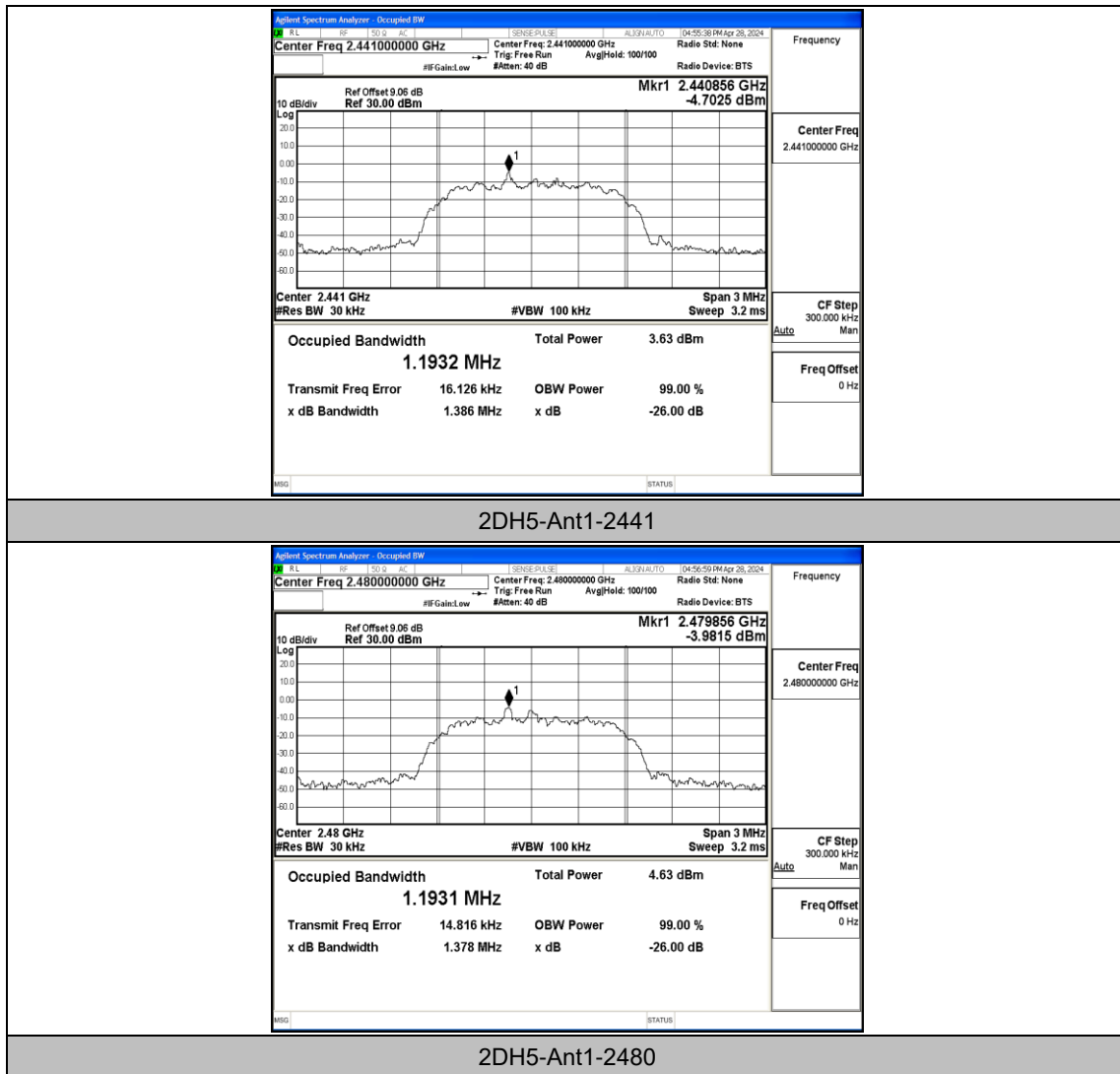
DH5-Ant1-2402



DH5-Ant1-2480



2DH5-Ant1-2402

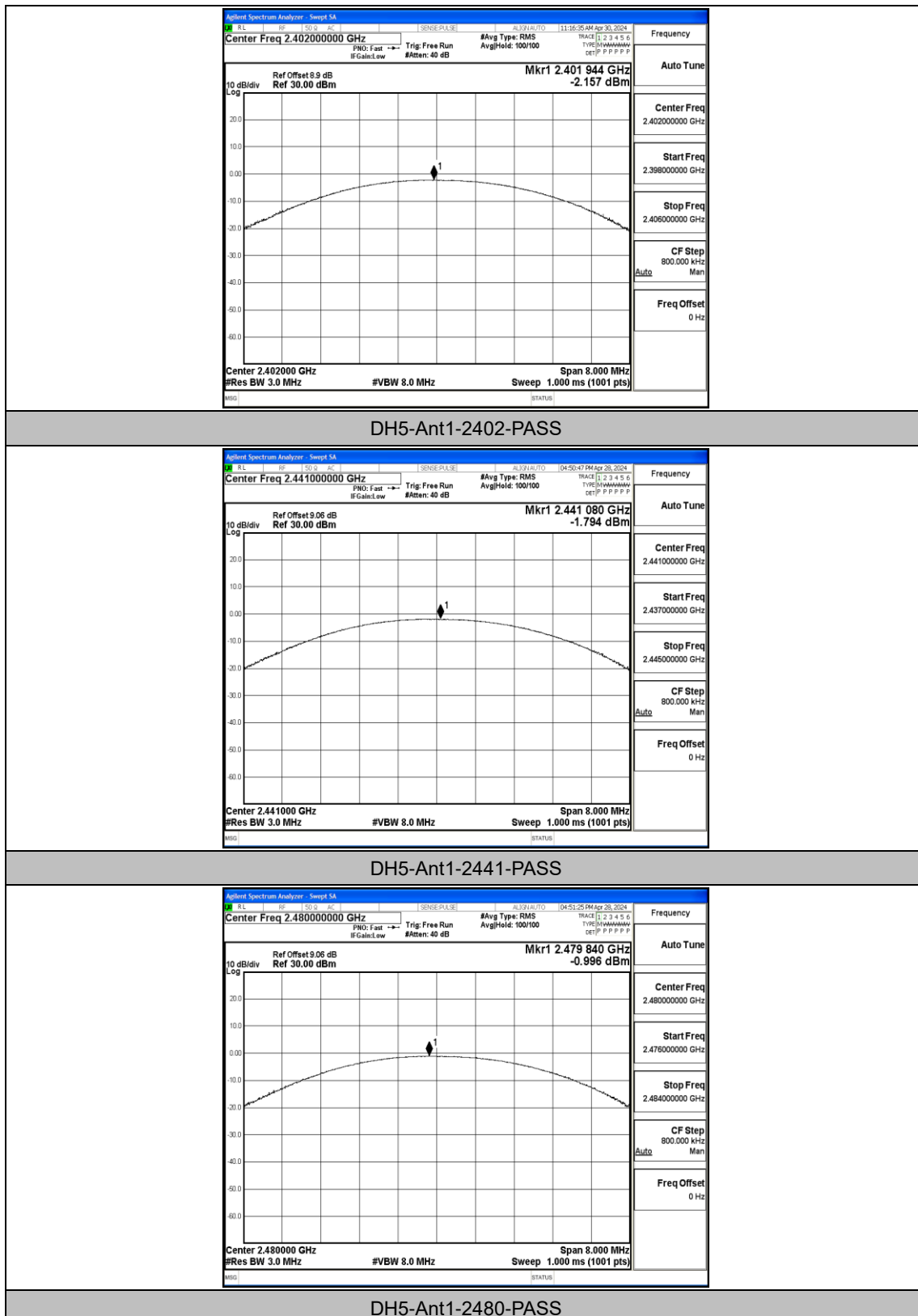


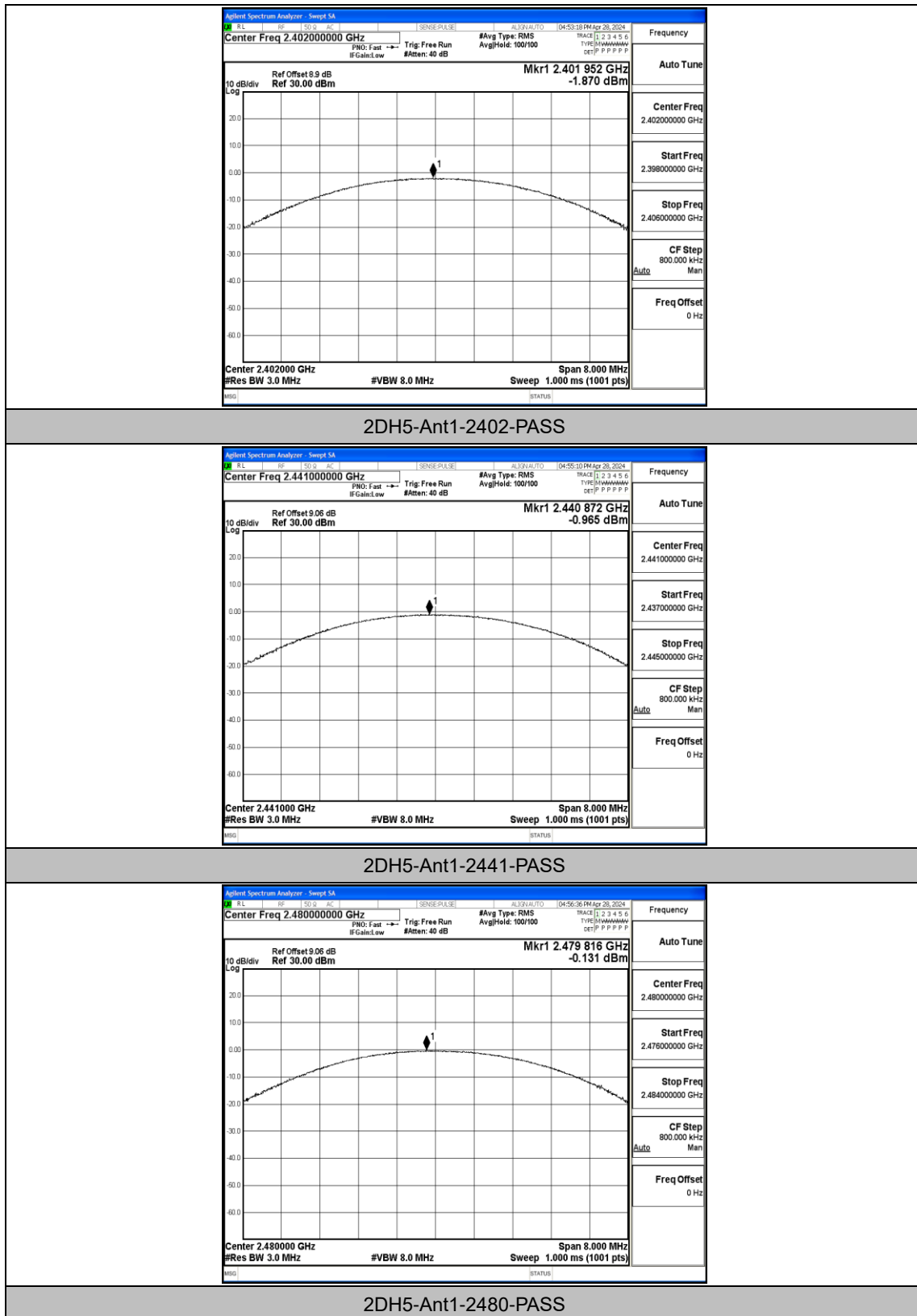
Appendix C: Maximum peak conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-2.16	≤30	PASS
DH5	Ant1	2441	-1.79	≤30	PASS
DH5	Ant1	2480	-1.00	≤30	PASS
2DH5	Ant1	2402	-1.87	≤20.97	PASS
2DH5	Ant1	2441	-0.97	≤20.97	PASS
2DH5	Ant1	2480	-0.13	≤20.97	PASS

Test Graphs



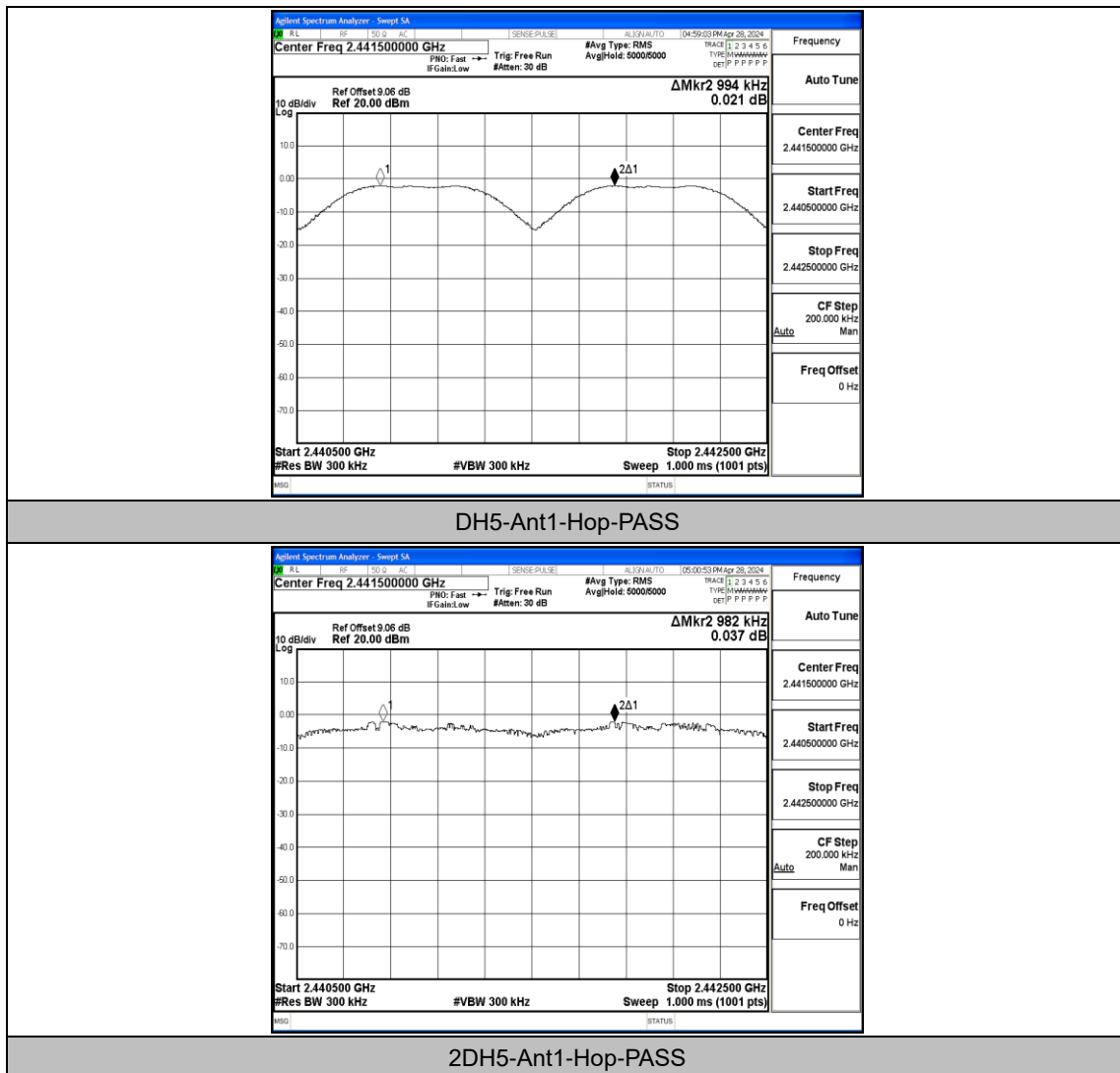


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.963	PASS
2DH5	Ant1	Hop	0.982	≥ 0.902	PASS

Test Graphs

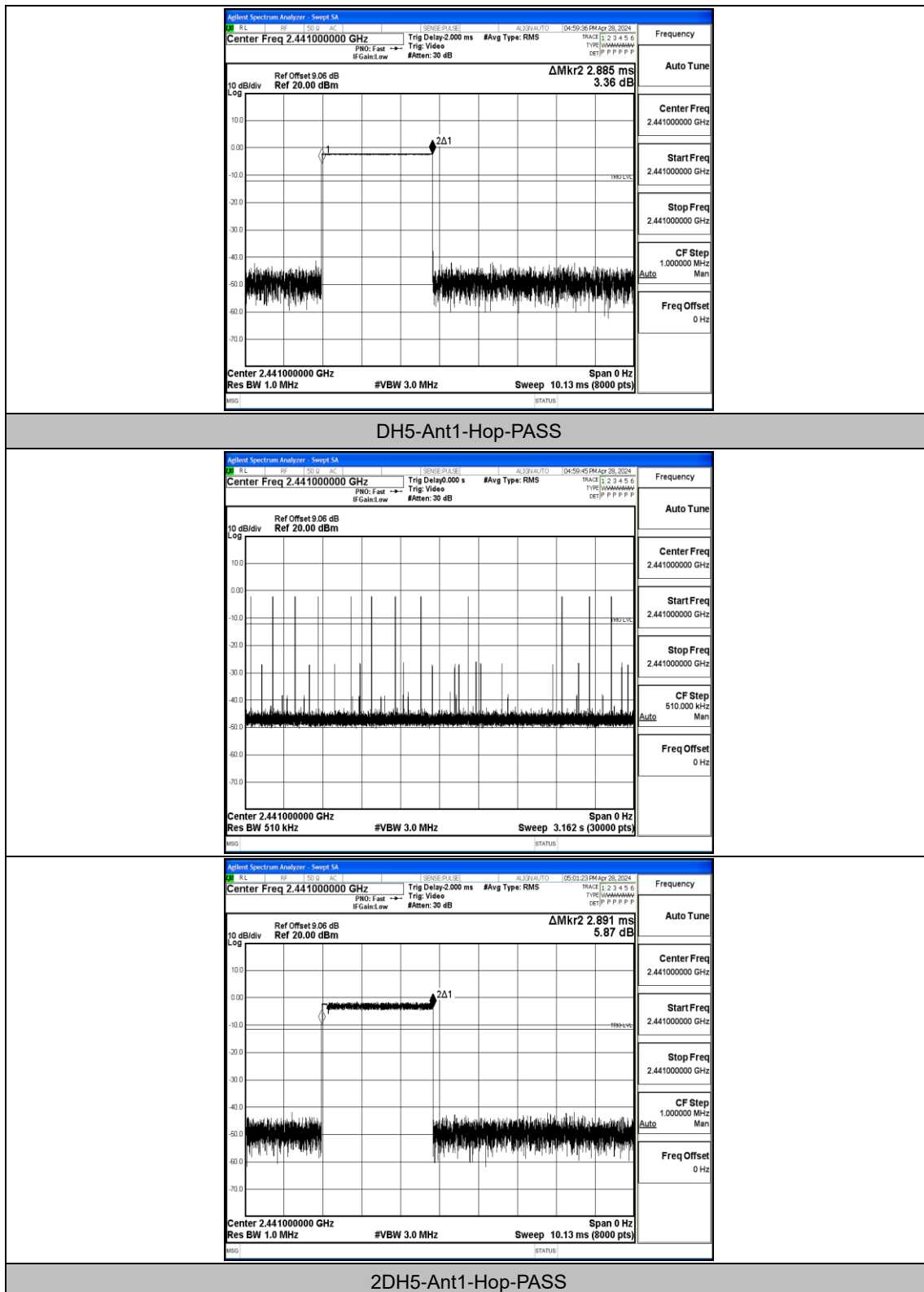


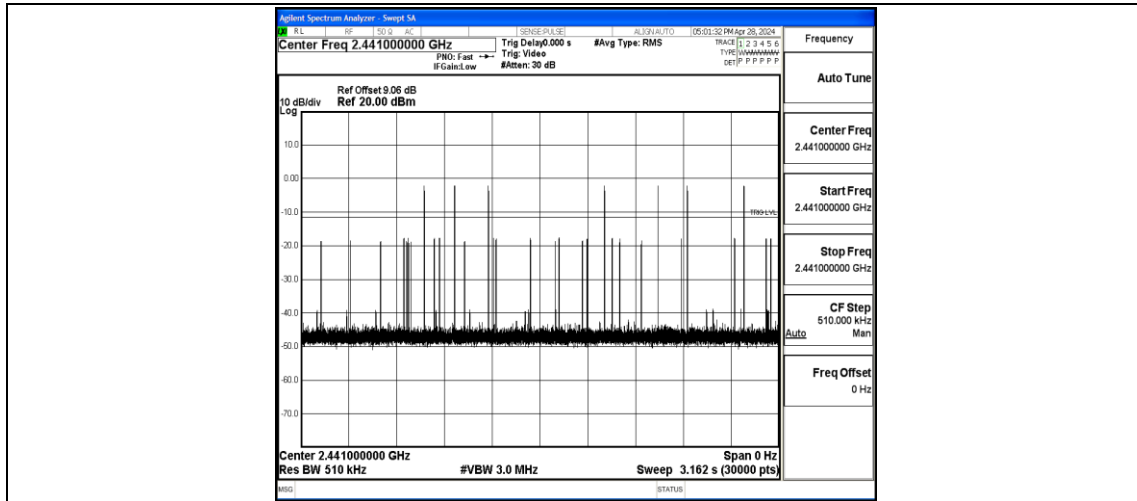
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	130	0.375	≤0.4	PASS
2DH5	Ant1	Hop	2.891	80	0.231	≤0.4	PASS

Test Graphs



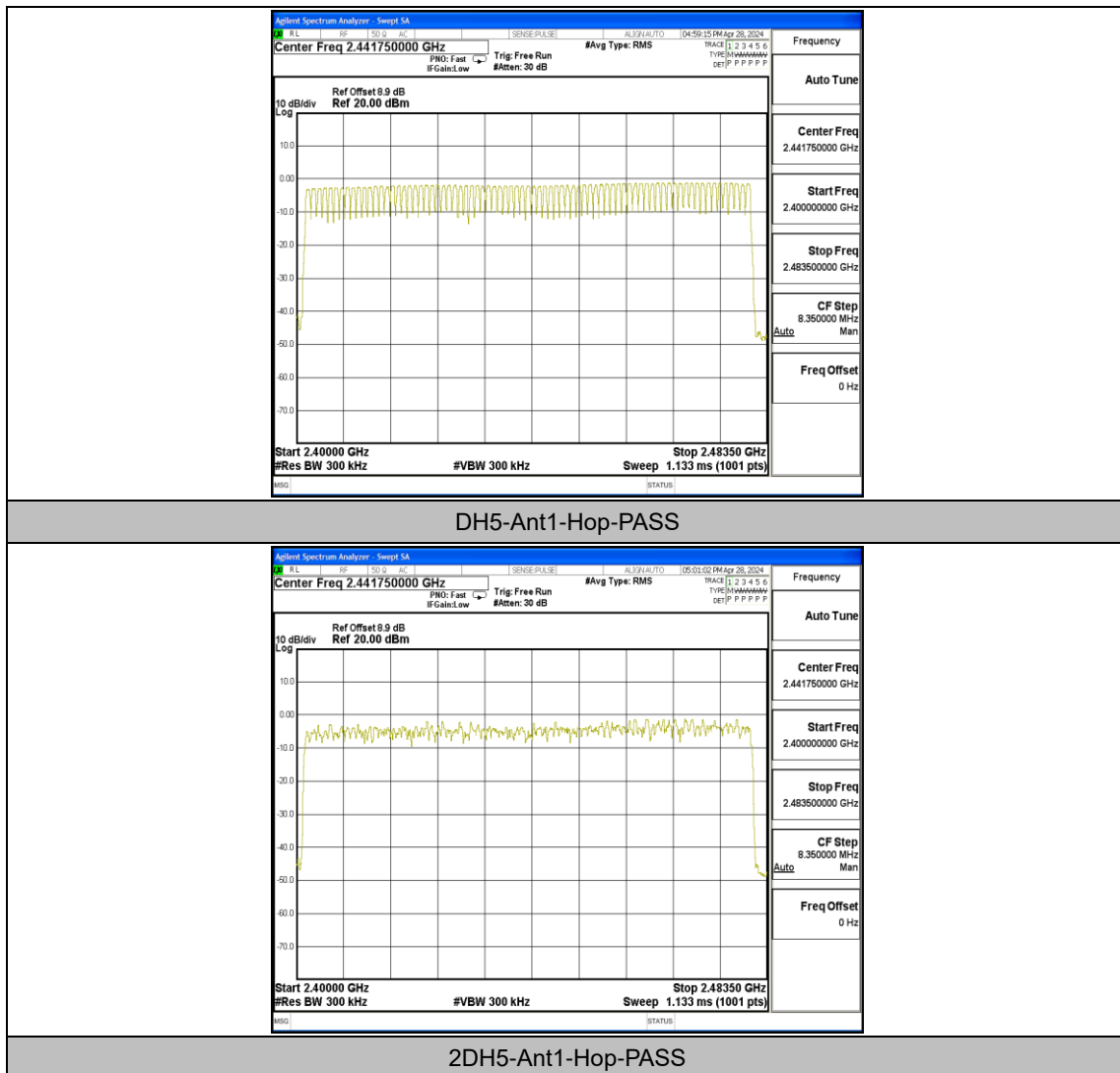


Appendix F: Number of hopping channels

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

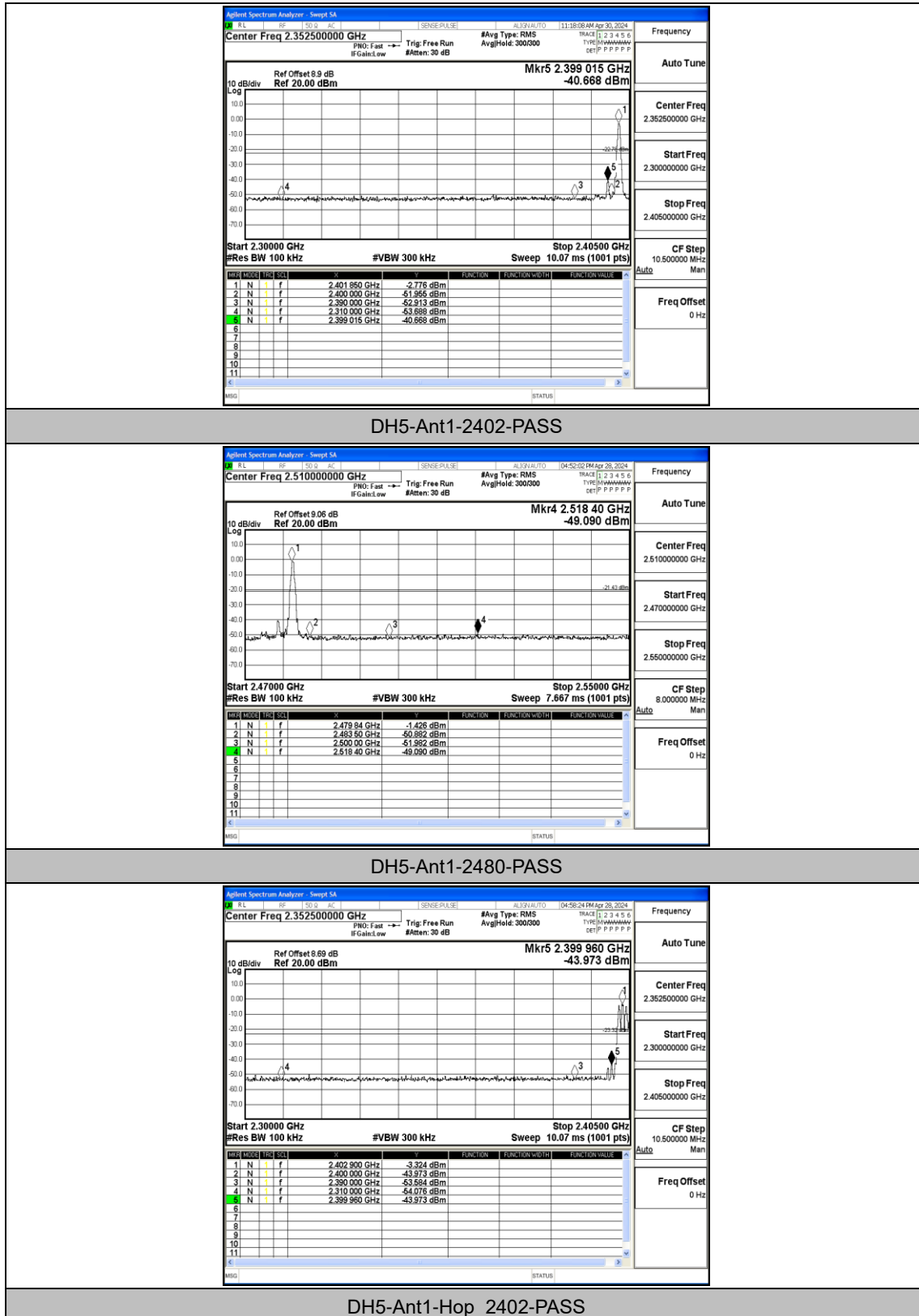


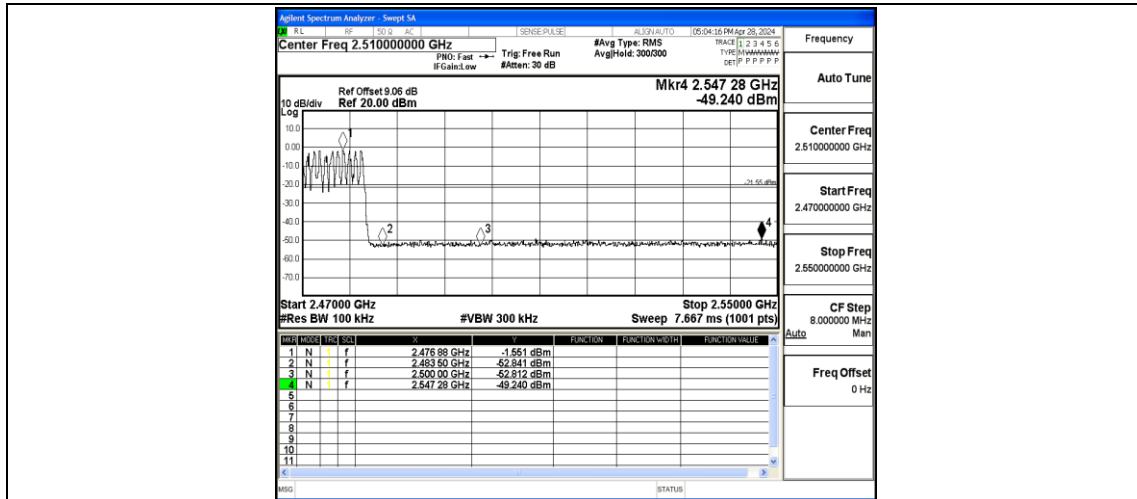
Appendix G: Band edge measurements

Test Result

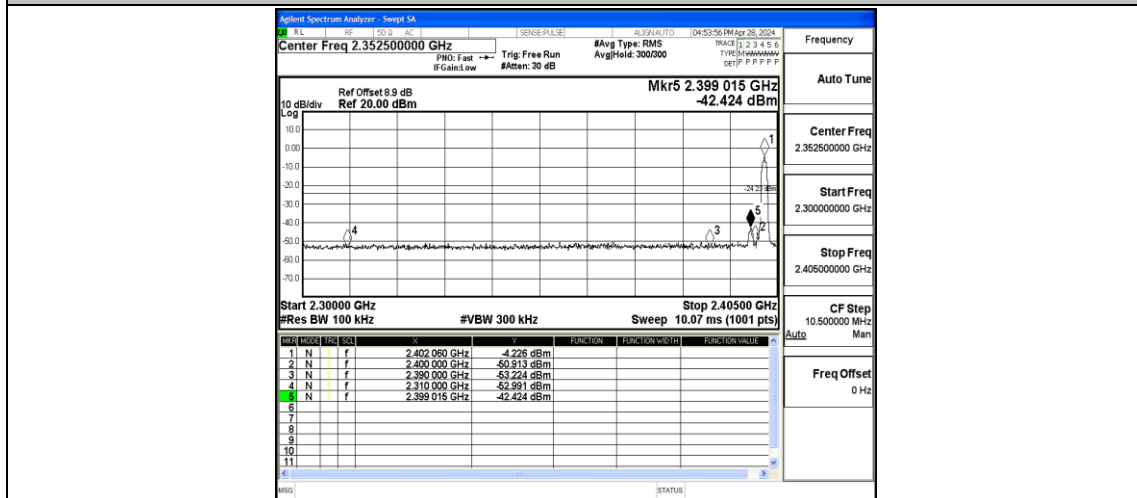
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.78	-40.67	≤-22.78	PASS
DH5	Ant1	High	2480	-1.43	-49.09	≤-21.43	PASS
DH5	Ant1	Low	Hop_2402	-3.32	-43.97	≤-23.32	PASS
DH5	Ant1	High	Hop_2480	-1.55	-49.24	≤-21.55	PASS
2DH5	Ant1	Low	2402	-4.23	-42.42	≤-24.23	PASS
2DH5	Ant1	High	2480	-1.28	-49.48	≤-21.28	PASS
2DH5	Ant1	Low	Hop_2402	-5.20	-46.44	≤-25.2	PASS
2DH5	Ant1	High	Hop_2480	-4.27	-48.69	≤-24.27	PASS

Test Graphs

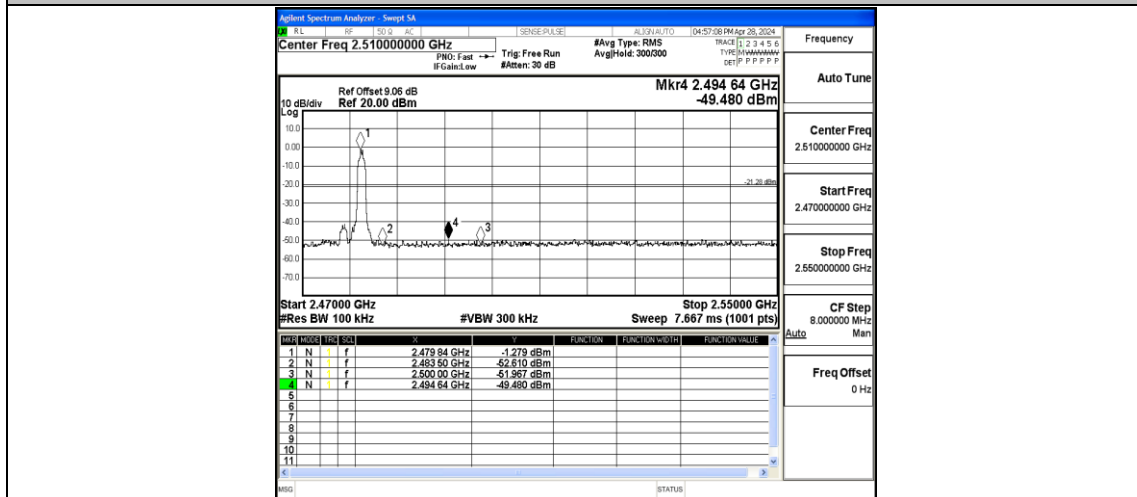




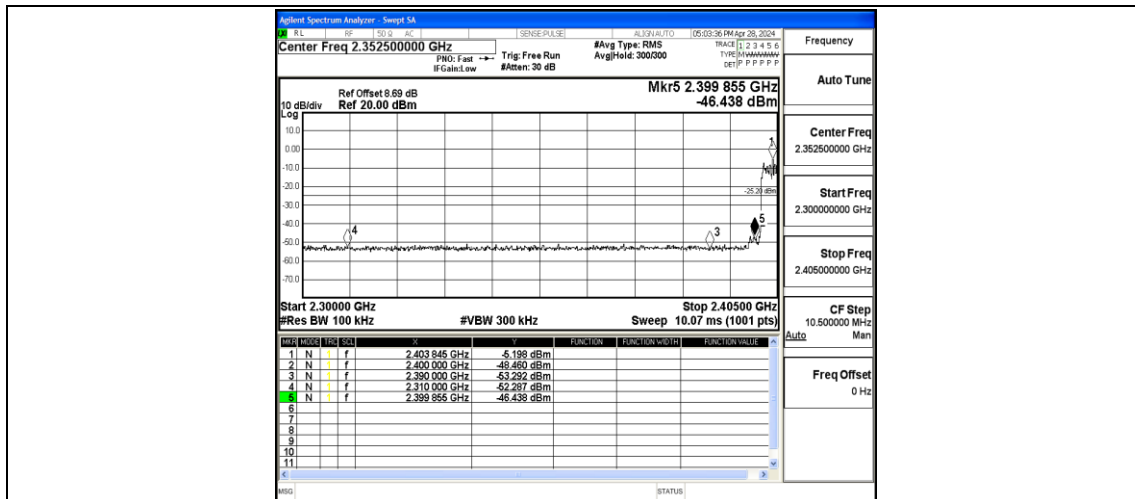
DH5-Ant1-Hop_2480-PASS



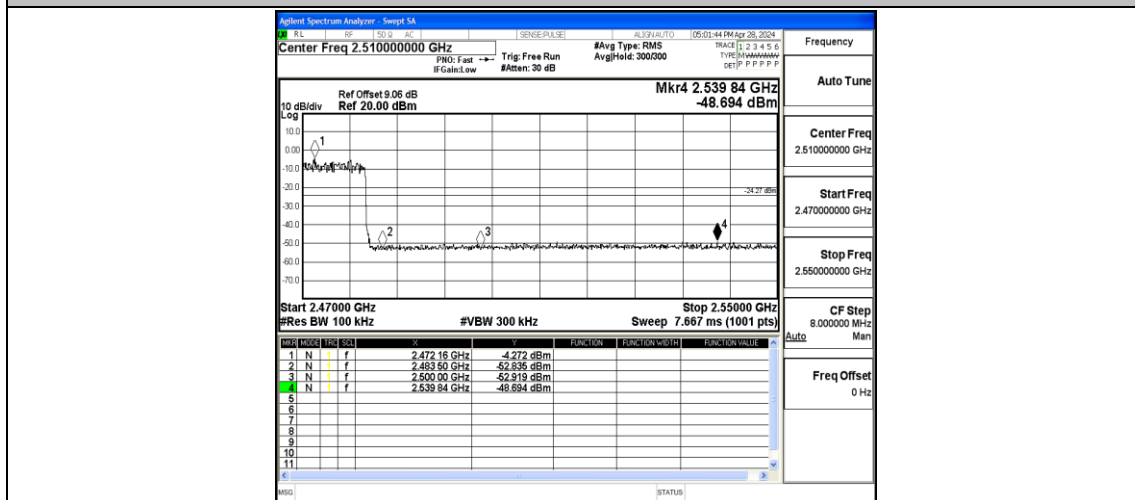
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



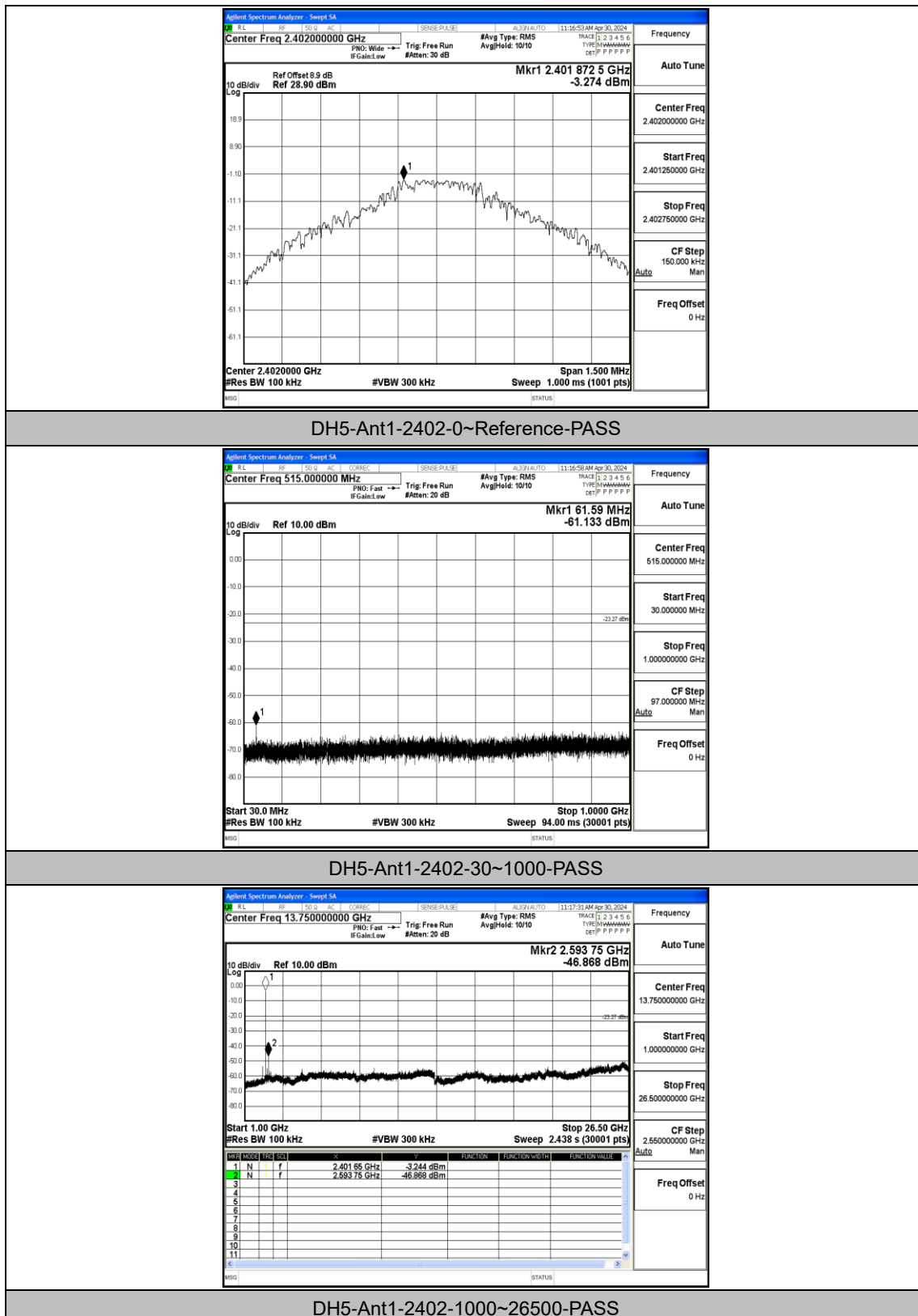
2DH5-Ant1-Hop_2480-PASS

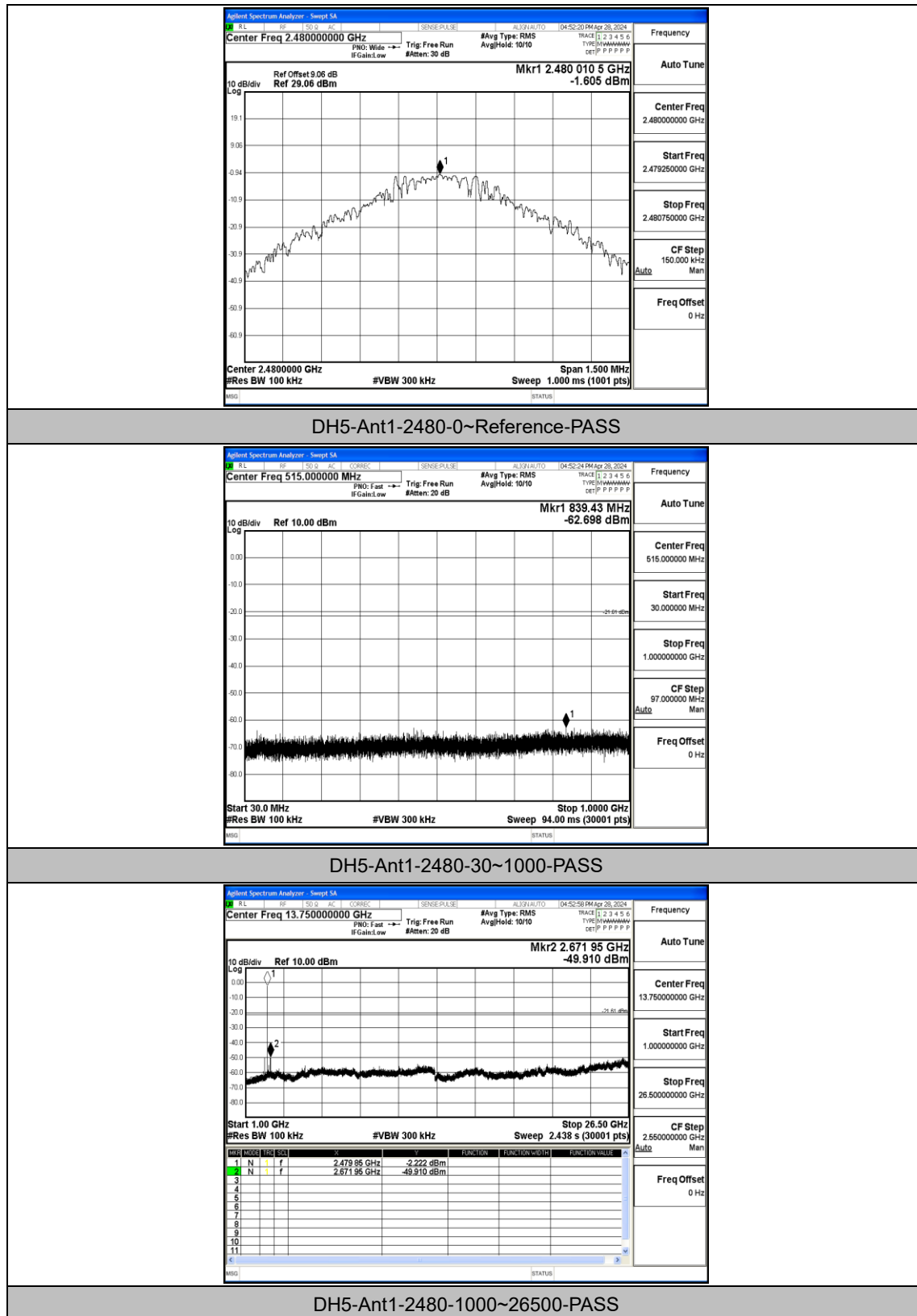
Appendix H: Conducted Spurious Emission

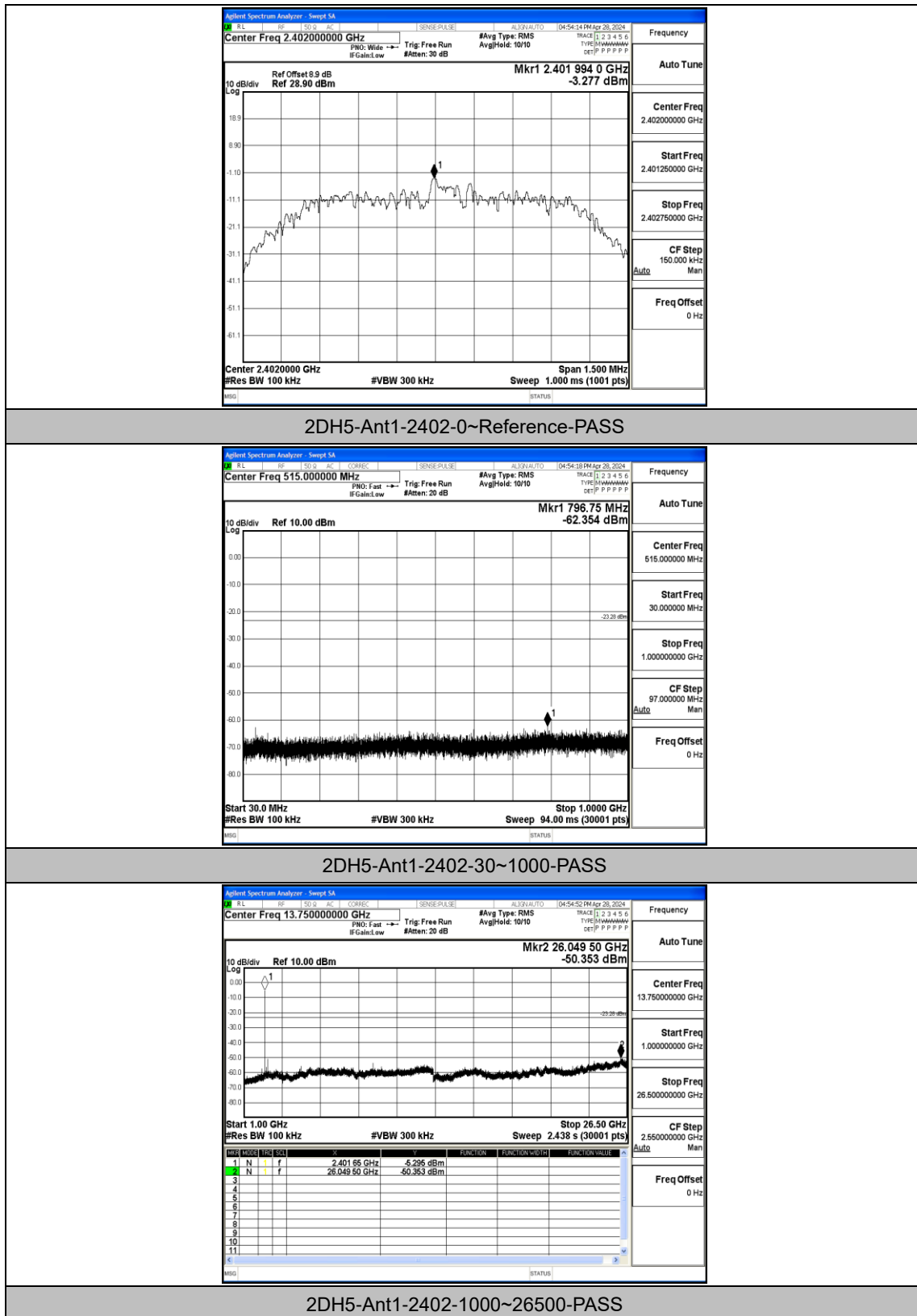
Test Result

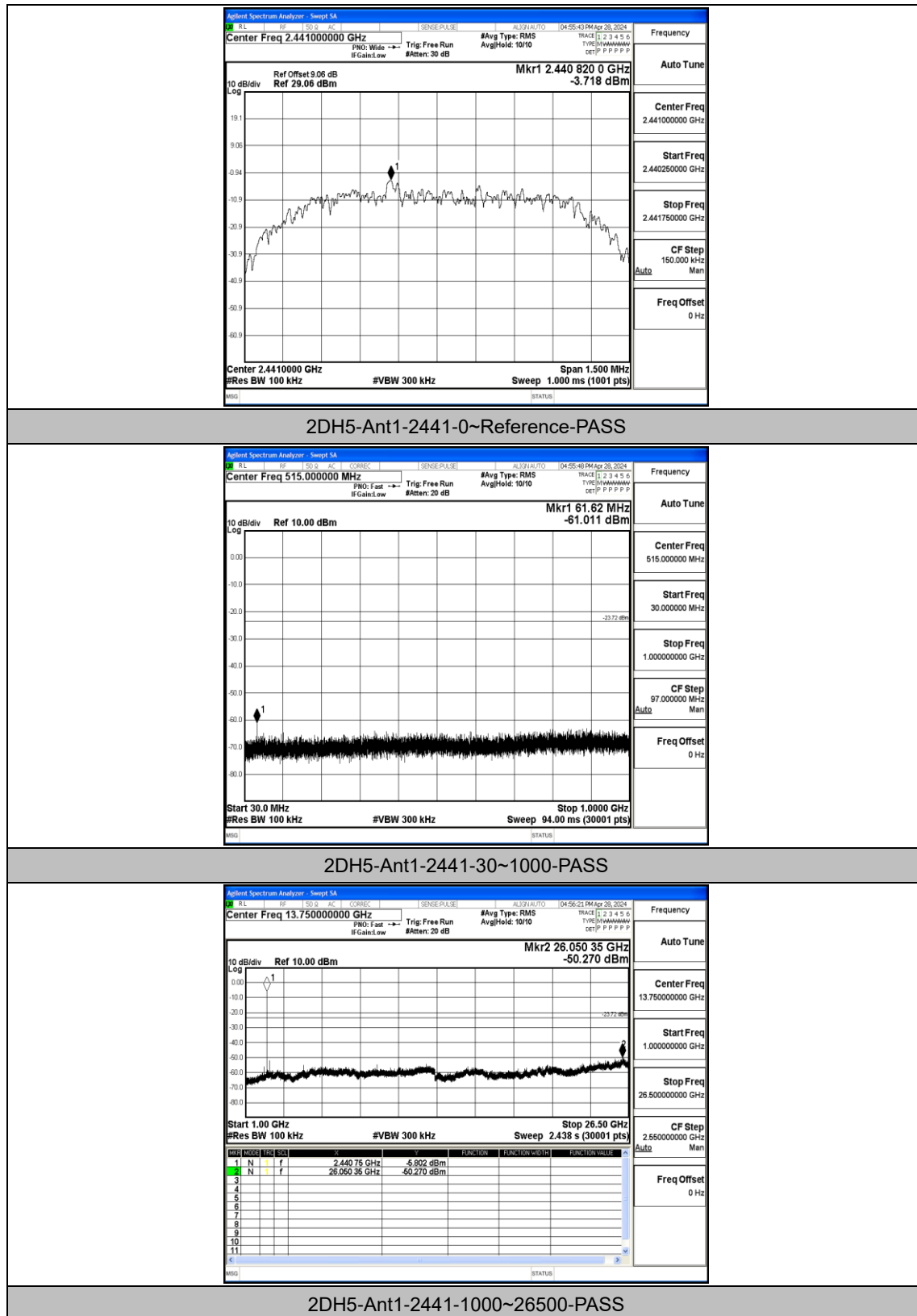
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-3.27	-3.27	---	PASS
DH5	Ant1	2402	30~1000	-3.27	-61.13	≤-23.27	PASS
DH5	Ant1	2402	1000~26500	-3.27	-46.87	≤-23.27	PASS
DH5	Ant1	2480	0~Reference	-1.61	-1.61	---	PASS
DH5	Ant1	2480	30~1000	-1.61	-62.7	≤-21.61	PASS
DH5	Ant1	2480	1000~26500	-1.61	-49.91	≤-21.61	PASS
2DH5	Ant1	2402	0~Reference	-3.28	-3.28	---	PASS
2DH5	Ant1	2402	30~1000	-3.28	-62.35	≤-23.28	PASS
2DH5	Ant1	2402	1000~26500	-3.28	-50.35	≤-23.28	PASS
2DH5	Ant1	2441	0~Reference	-3.72	-3.72	---	PASS
2DH5	Ant1	2441	30~1000	-3.72	-61.01	≤-23.72	PASS
2DH5	Ant1	2441	1000~26500	-3.72	-50.27	≤-23.72	PASS
2DH5	Ant1	2480	0~Reference	-2.77	-2.77	---	PASS
2DH5	Ant1	2480	30~1000	-2.77	-61.88	≤-22.77	PASS
2DH5	Ant1	2480	1000~26500	-2.77	-49.83	≤-22.77	PASS

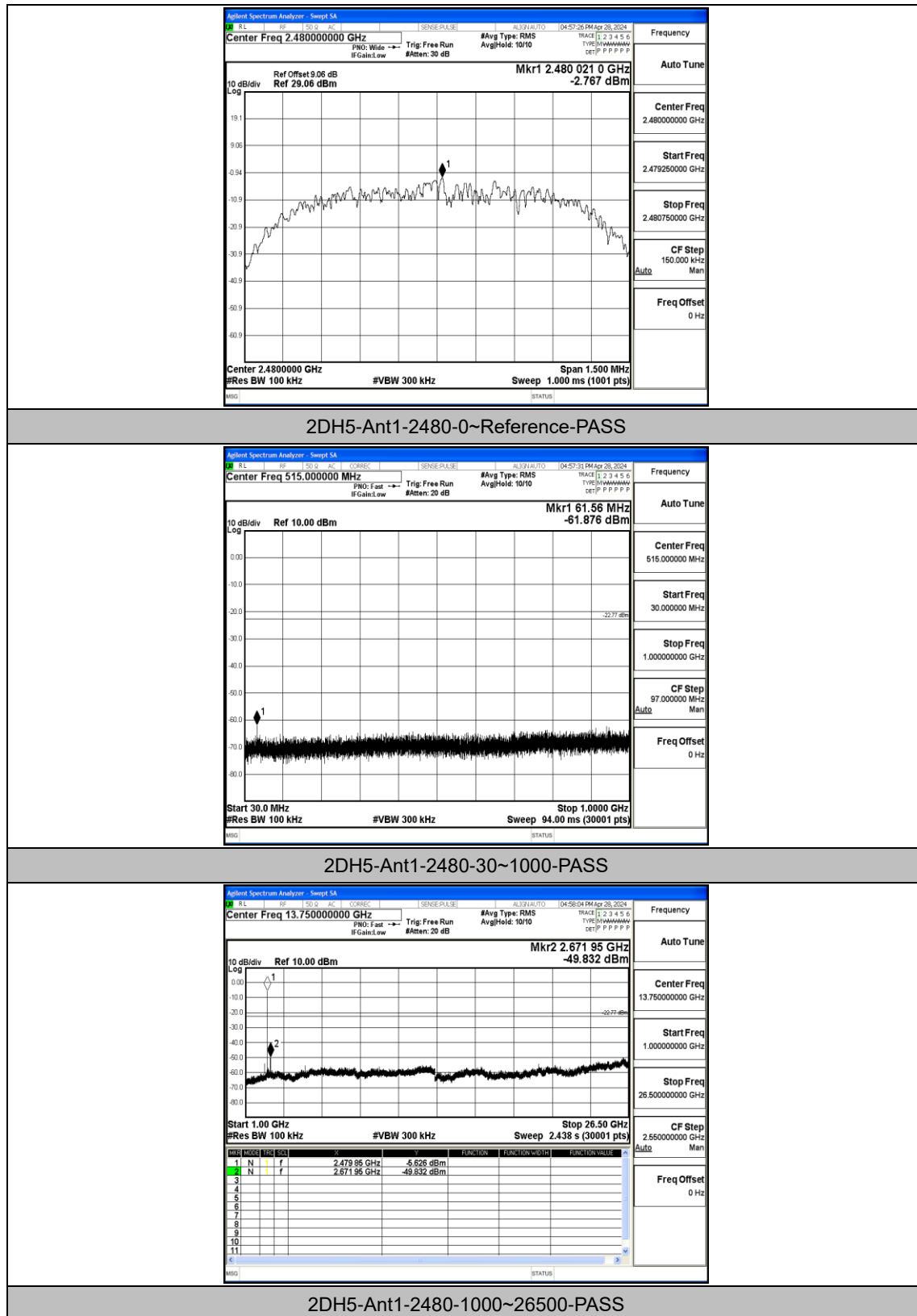
Test Graphs









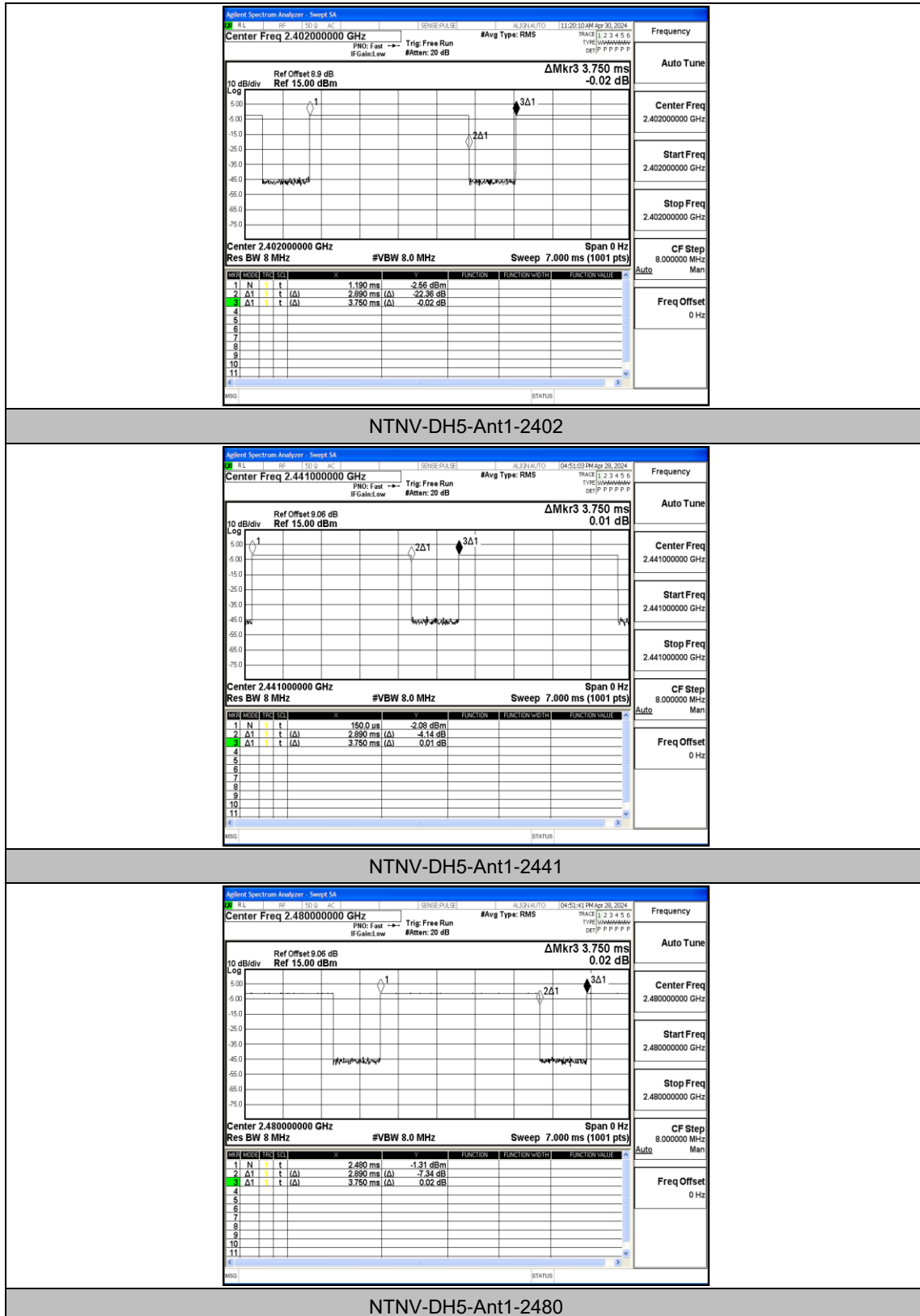


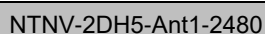
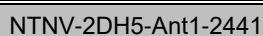
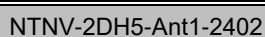
Appendix I: Duty Cycle

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	3.75	77.07	1.13
2DH5	Ant1	2441	2.90	3.76	77.13	1.13
2DH5	Ant1	2480	2.89	3.75	77.07	1.13

Test Graphs





Appendix J: Emissions in Restricted Bands

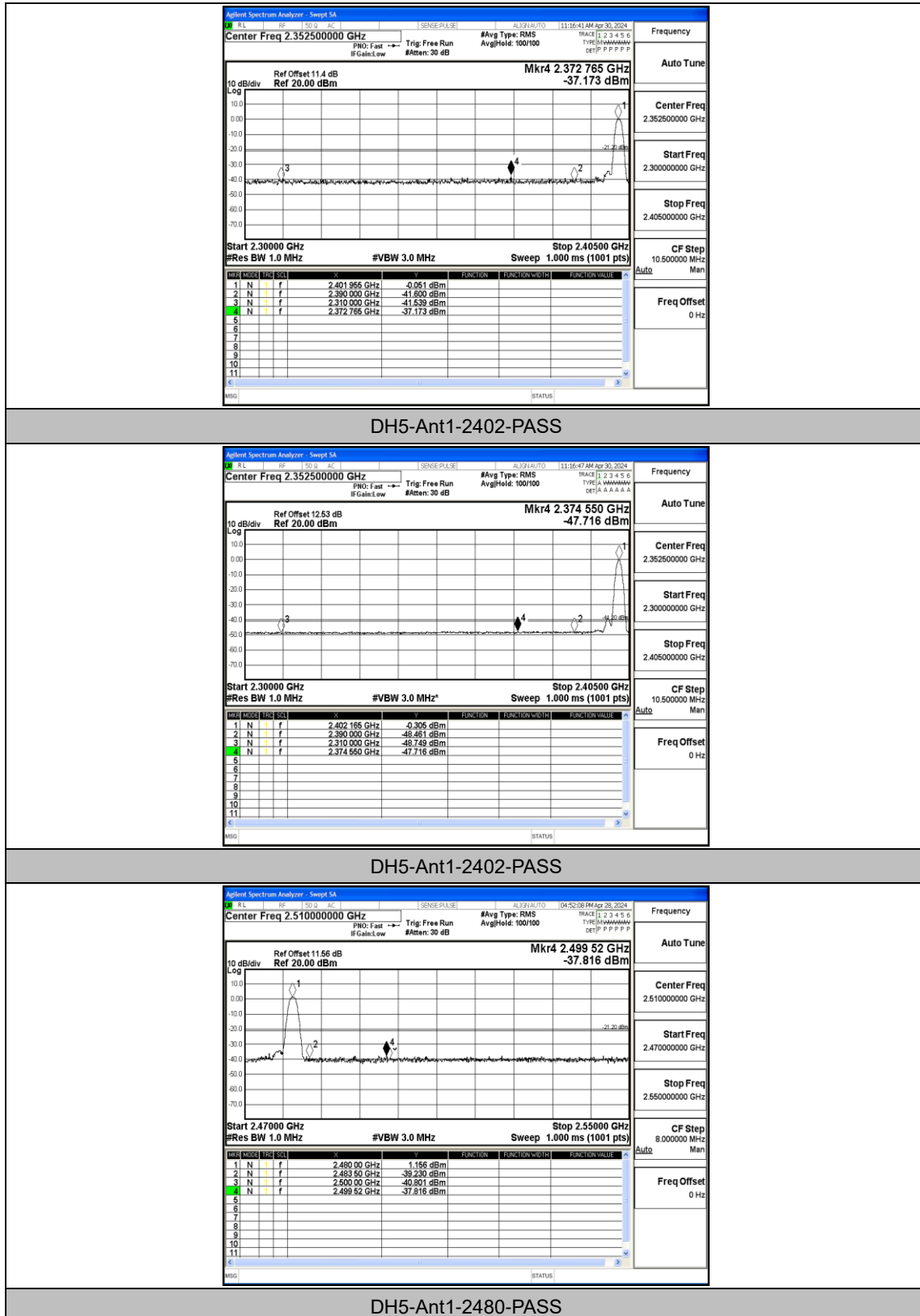
Test Result

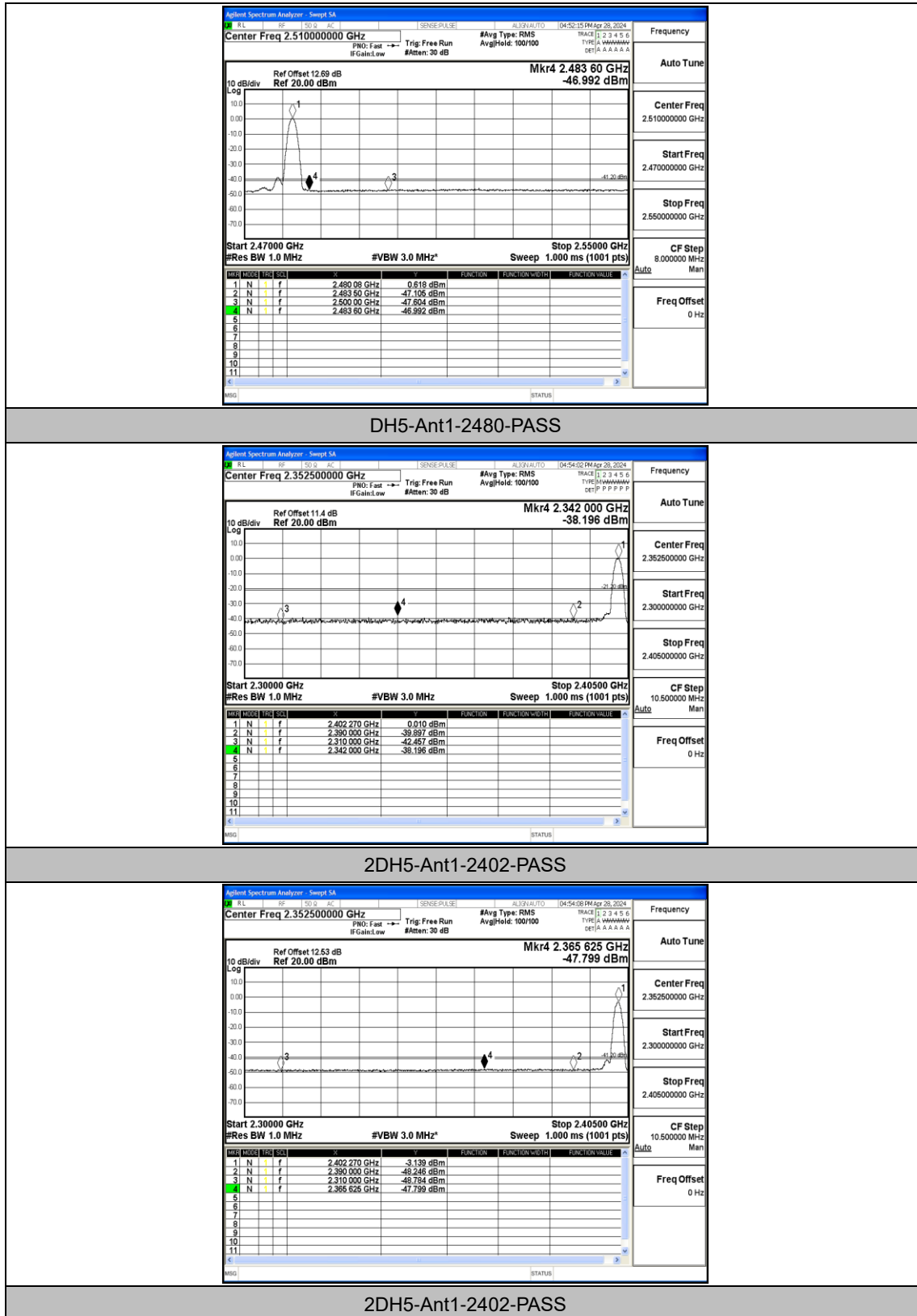
TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	Peak	2390.000	-41.6	≤-21.20	53.60	≤74	PASS
DH5	Ant1	Low	2402	Peak	2310.000	-41.54	≤-21.20	53.66	≤74	PASS
DH5	Ant1	Low	2402	Peak	2372.765	-37.17	≤-21.20	58.03	≤74	PASS
DH5	Ant1	Low	2402	AV	2390.000	-48.46	≤-41.20	46.74	≤54	PASS
DH5	Ant1	Low	2402	AV	2310.000	-48.75	≤-41.20	46.45	≤54	PASS
DH5	Ant1	Low	2402	AV	2374.550	-47.72	≤-41.20	47.48	≤54	PASS
DH5	Ant1	High	2480	Peak	2483.500	-39.23	≤-21.20	55.97	≤74	PASS
DH5	Ant1	High	2480	Peak	2500.000	-40.8	≤-21.20	54.40	≤74	PASS
DH5	Ant1	High	2480	Peak	2499.520	-37.82	≤-21.20	57.38	≤74	PASS
DH5	Ant1	High	2480	AV	2483.500	-47.11	≤-41.20	48.09	≤54	PASS
DH5	Ant1	High	2480	AV	2500.000	-47.6	≤-41.20	47.60	≤54	PASS
DH5	Ant1	High	2480	AV	2483.600	-46.99	≤-41.20	48.21	≤54	PASS
2DH5	Ant1	Low	2402	Peak	2390.000	-39.9	≤-21.20	55.30	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2310.000	-42.46	≤-21.20	52.74	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2342.000	-38.2	≤-21.20	57.00	≤74	PASS
2DH5	Ant1	Low	2402	AV	2390.000	-48.25	≤-41.20	46.95	≤54	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.78	≤-41.20	46.42	≤54	PASS
2DH5	Ant1	Low	2402	AV	2365.625	-47.8	≤-41.20	47.40	≤54	PASS
2DH5	Ant1	High	2480	Peak	2483.500	-43.78	≤-21.20	51.42	≤74	PASS
2DH5	Ant1	High	2480	Peak	2500.000	-41.84	≤-21.20	53.36	≤74	PASS
2DH5	Ant1	High	2480	Peak	2498.960	-38.95	≤-21.20	56.25	≤74	PASS
2DH5	Ant1	High	2480	AV	2483.500	-48.87	≤-41.20	46.33	≤54	PASS
2DH5	Ant1	High	2480	AV	2500.000	-48.85	≤-41.20	46.35	≤54	PASS
2DH5	Ant1	High	2480	AV	2499.040	-48.04	≤-41.20	47.16	≤54	PASS

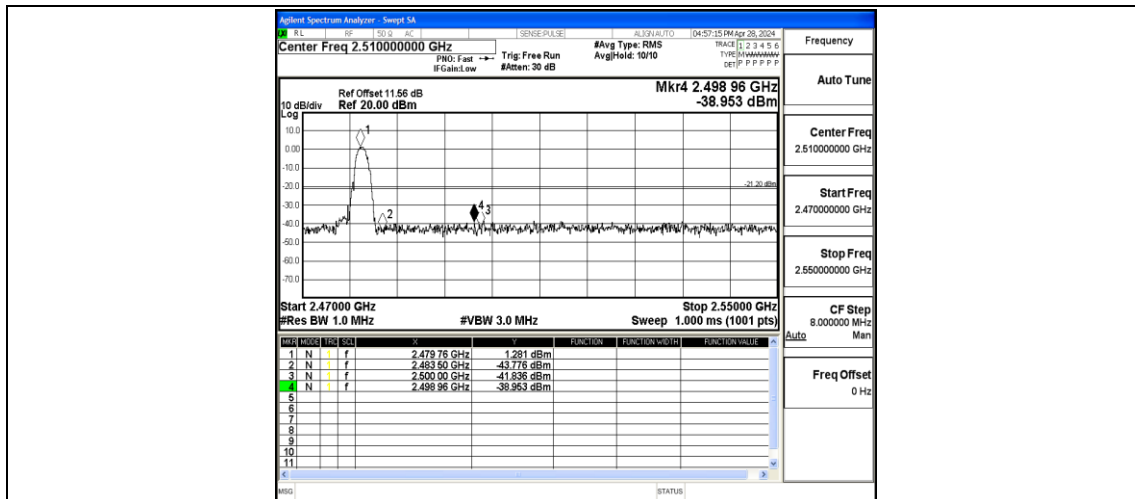
Note:

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.

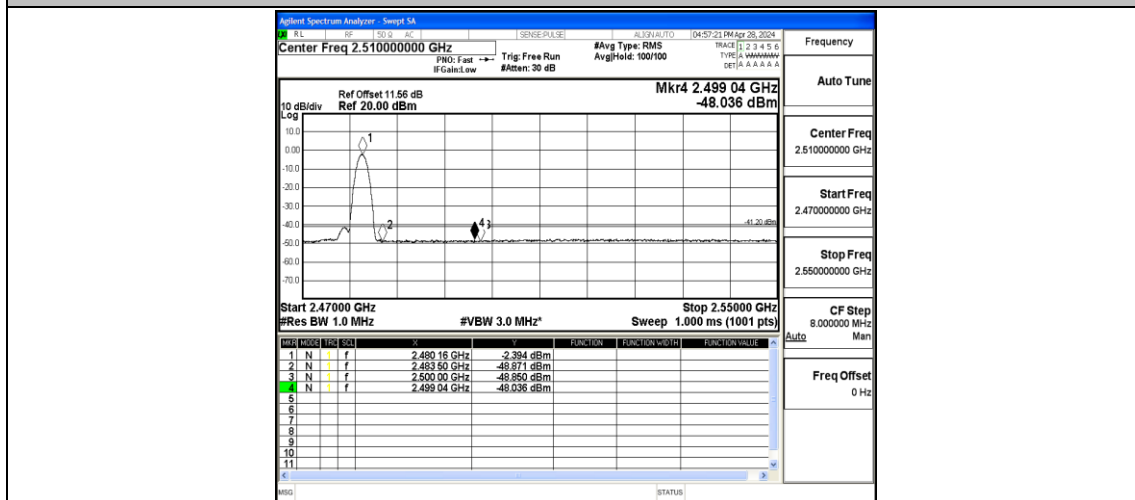
Test Graphs







2DH5-Ant1-2480-PASS



2DH5-Ant1-2480-PASS