

Appendix for Bluetooth

Product Name: True Wireless Earbuds

Model No: Urbanista Santa Monica

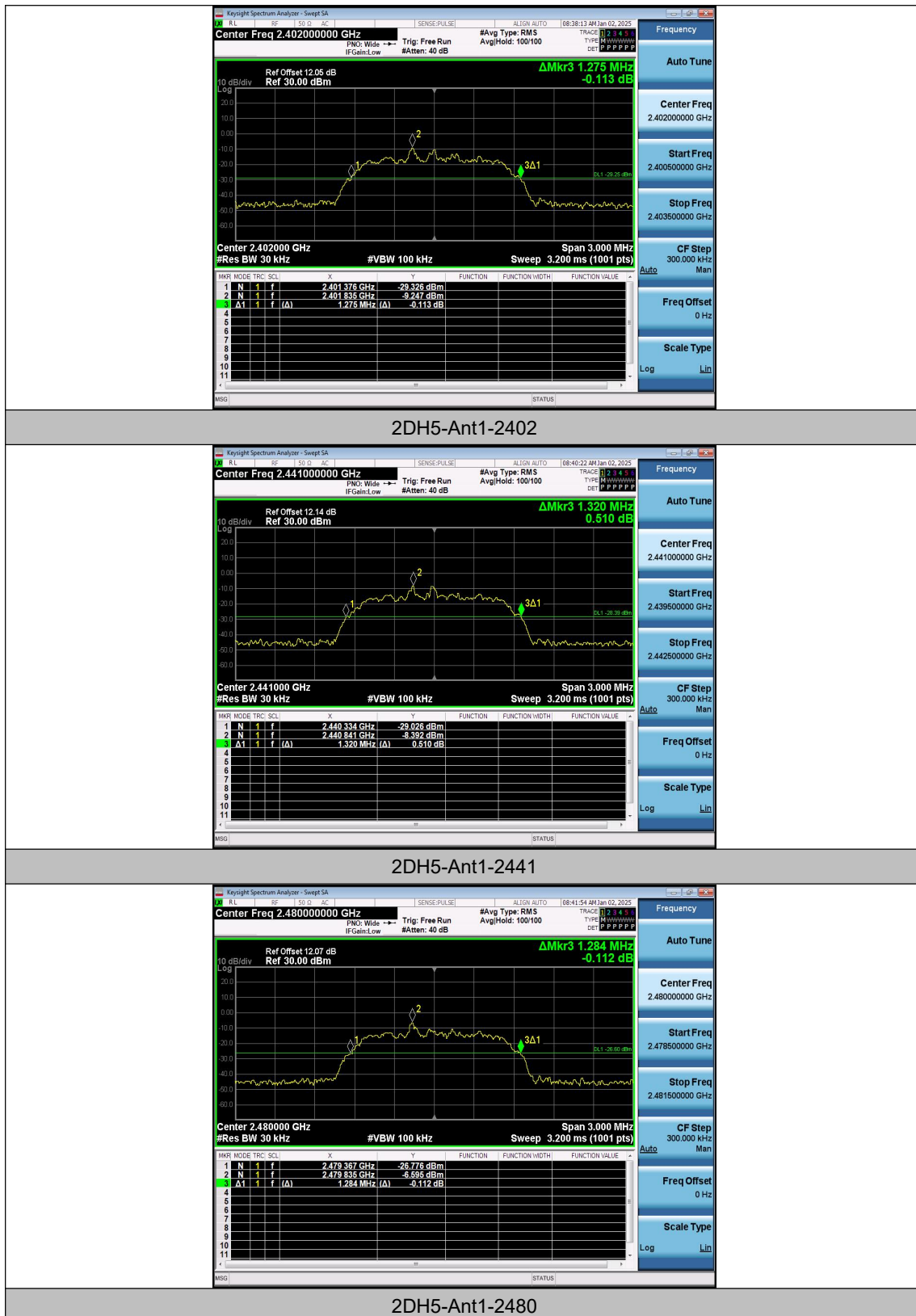
Appendix A: 20dB Emission Bandwidth

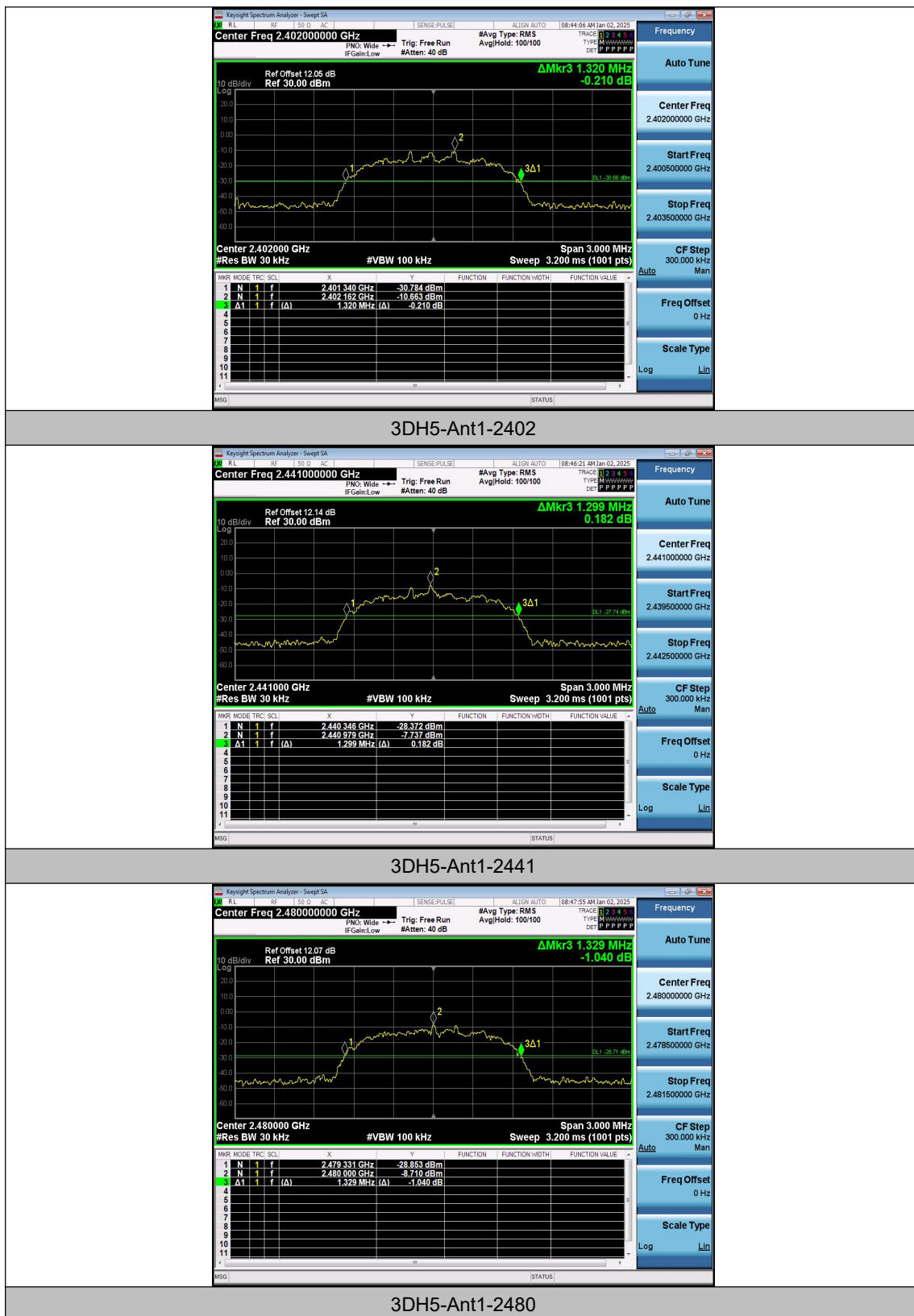
Test Result

TestMode	Antenna	Frequency. [MHz]	20db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.969	2401.526	2402.495	---	---
DH5	Ant1	2441	0.960	2440.529	2441.489	---	---
DH5	Ant1	2480	0.957	2479.529	2480.486	---	---
2DH5	Ant1	2402	1.275	2401.376	2402.651	---	---
2DH5	Ant1	2441	1.320	2440.334	2441.654	---	---
2DH5	Ant1	2480	1.284	2479.367	2480.651	---	---
3DH5	Ant1	2402	1.320	2401.340	2402.660	---	---
3DH5	Ant1	2441	1.299	2440.346	2441.645	---	---
3DH5	Ant1	2480	1.329	2479.331	2480.660	---	---

Test Graphs





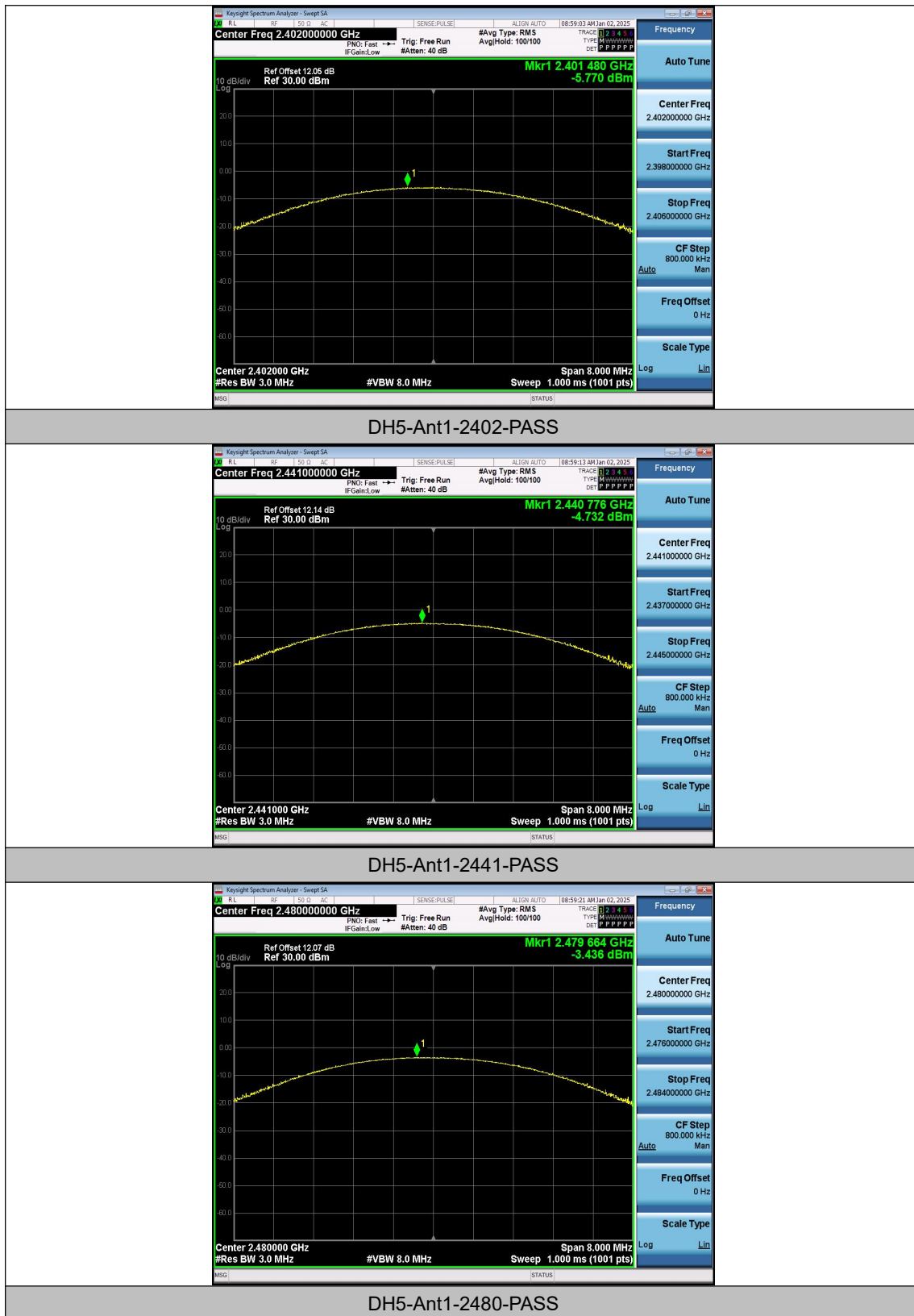


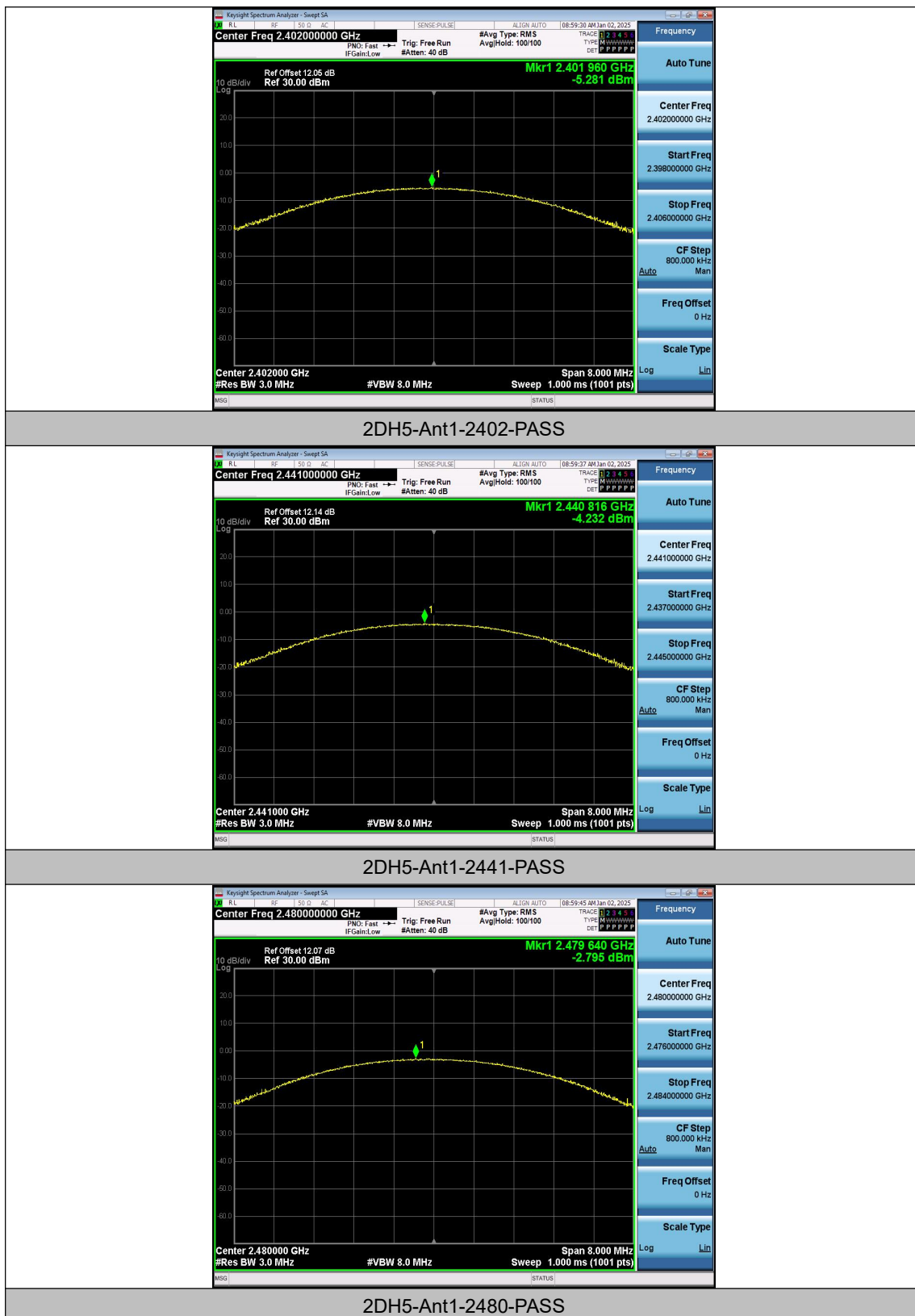
Appendix B: Maximum conducted output power

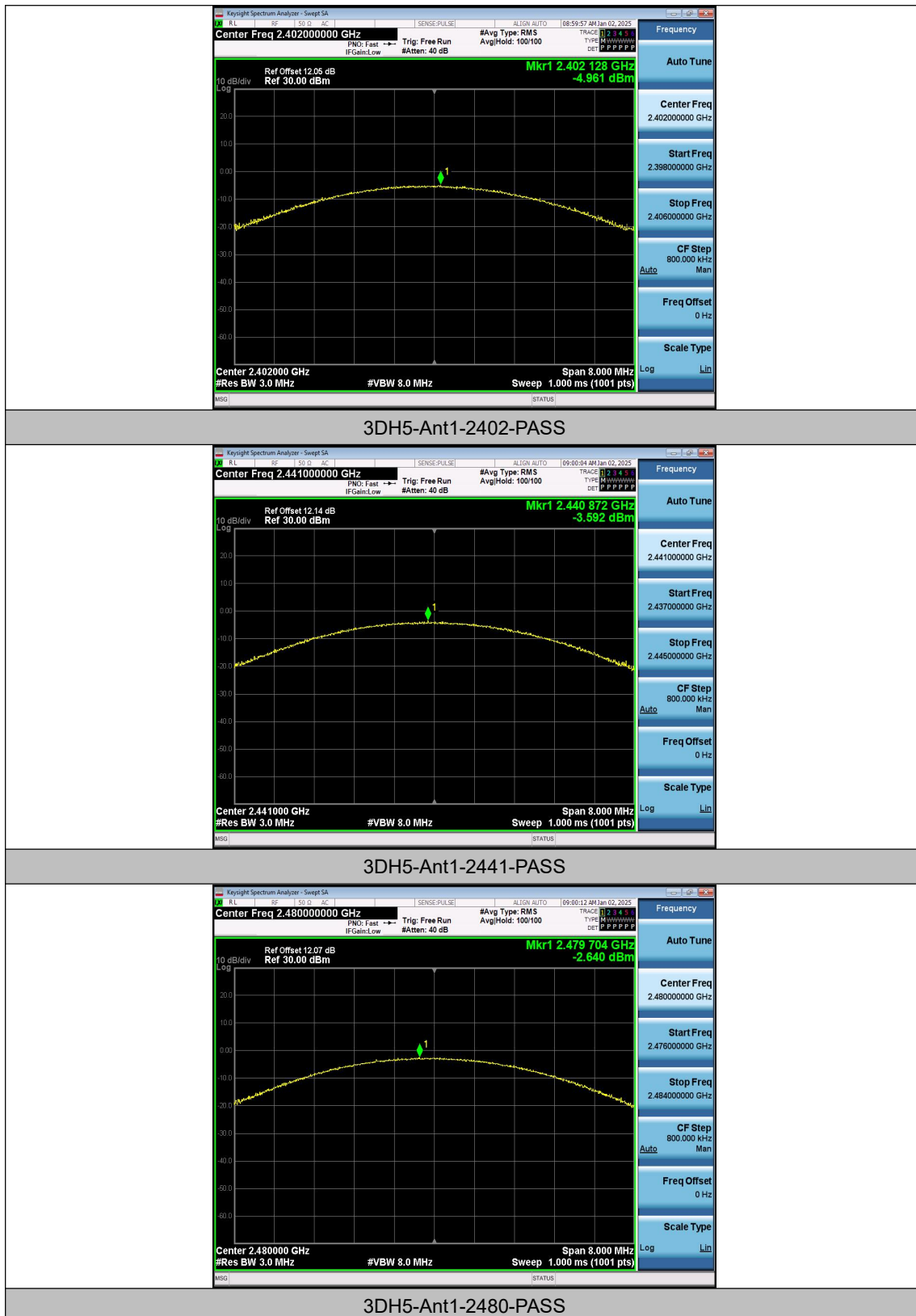
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-5.77	≤30	PASS
DH5	Ant1	2441	-4.73	≤30	PASS
DH5	Ant1	2480	-3.44	≤30	PASS
2DH5	Ant1	2402	-5.28	≤20.97	PASS
2DH5	Ant1	2441	-4.23	≤20.97	PASS
2DH5	Ant1	2480	-2.80	≤20.97	PASS
3DH5	Ant1	2402	-4.96	≤20.97	PASS
3DH5	Ant1	2441	-3.59	≤20.97	PASS
3DH5	Ant1	2480	-2.64	≤20.97	PASS

Test Graphs







Appendix C: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.998	≥ 0.969	PASS
2DH5	Ant1	Hop	0.888	≥ 0.880	PASS
3DH5	Ant1	Hop	0.992	≥ 0.886	PASS

Test Graphs

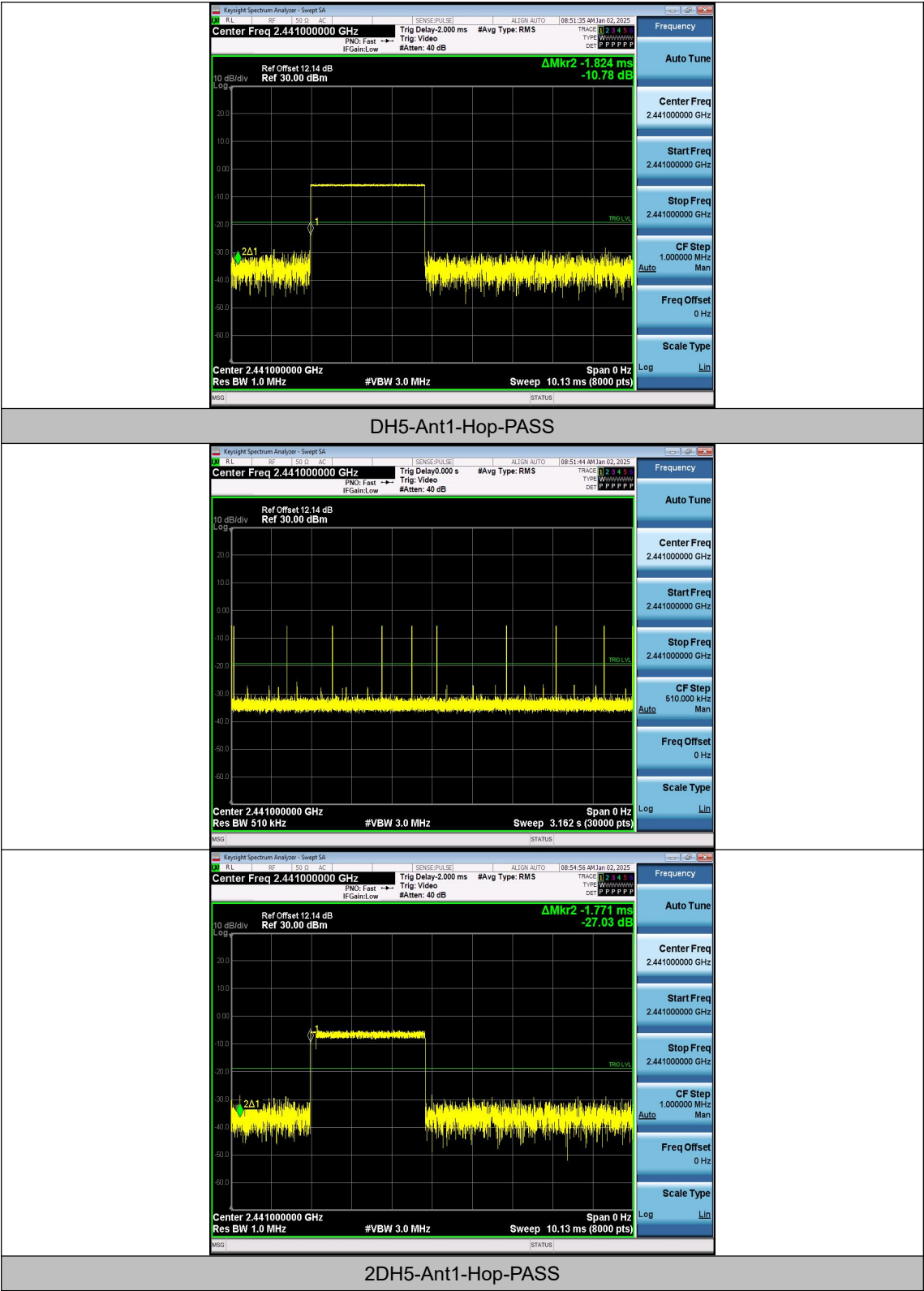


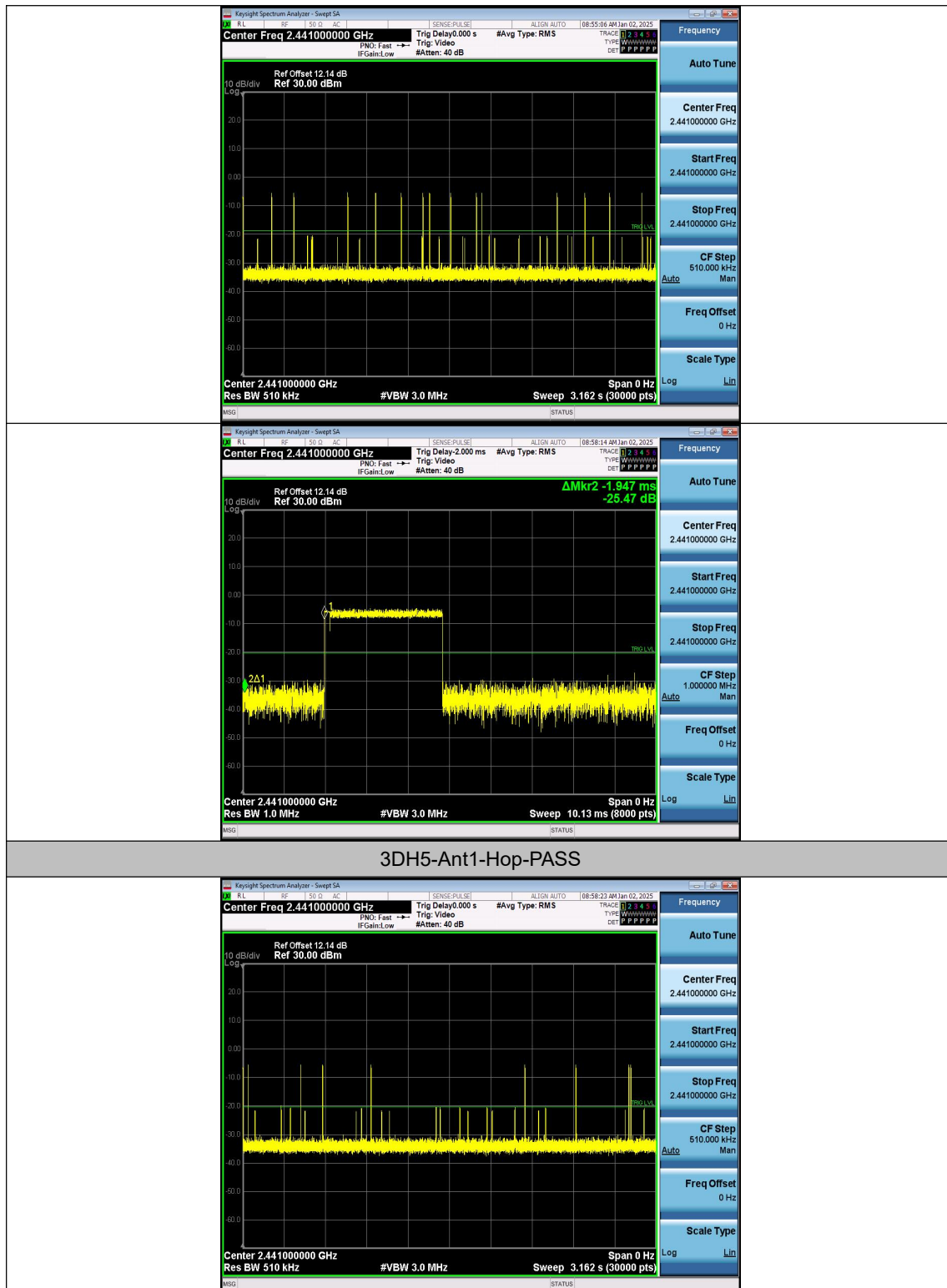
Appendix D: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	-1.824	110	-0.201	≤0.4	PASS
2DH5	Ant1	Hop	-1.771	150	-0.266	≤0.4	PASS
3DH5	Ant1	Hop	-1.947	90	-0.175	≤0.4	PASS

Test Graphs





Appendix E: 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
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

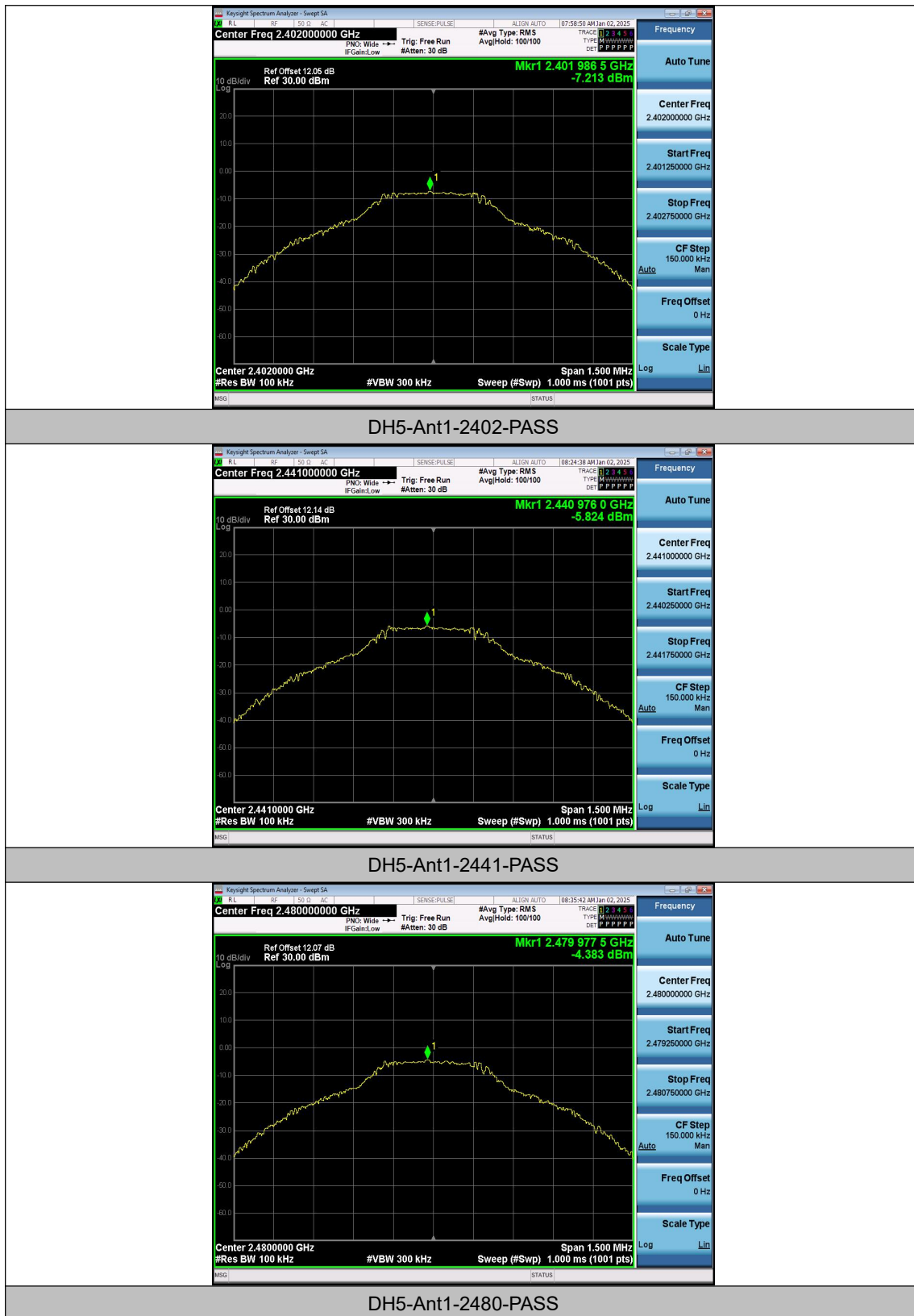


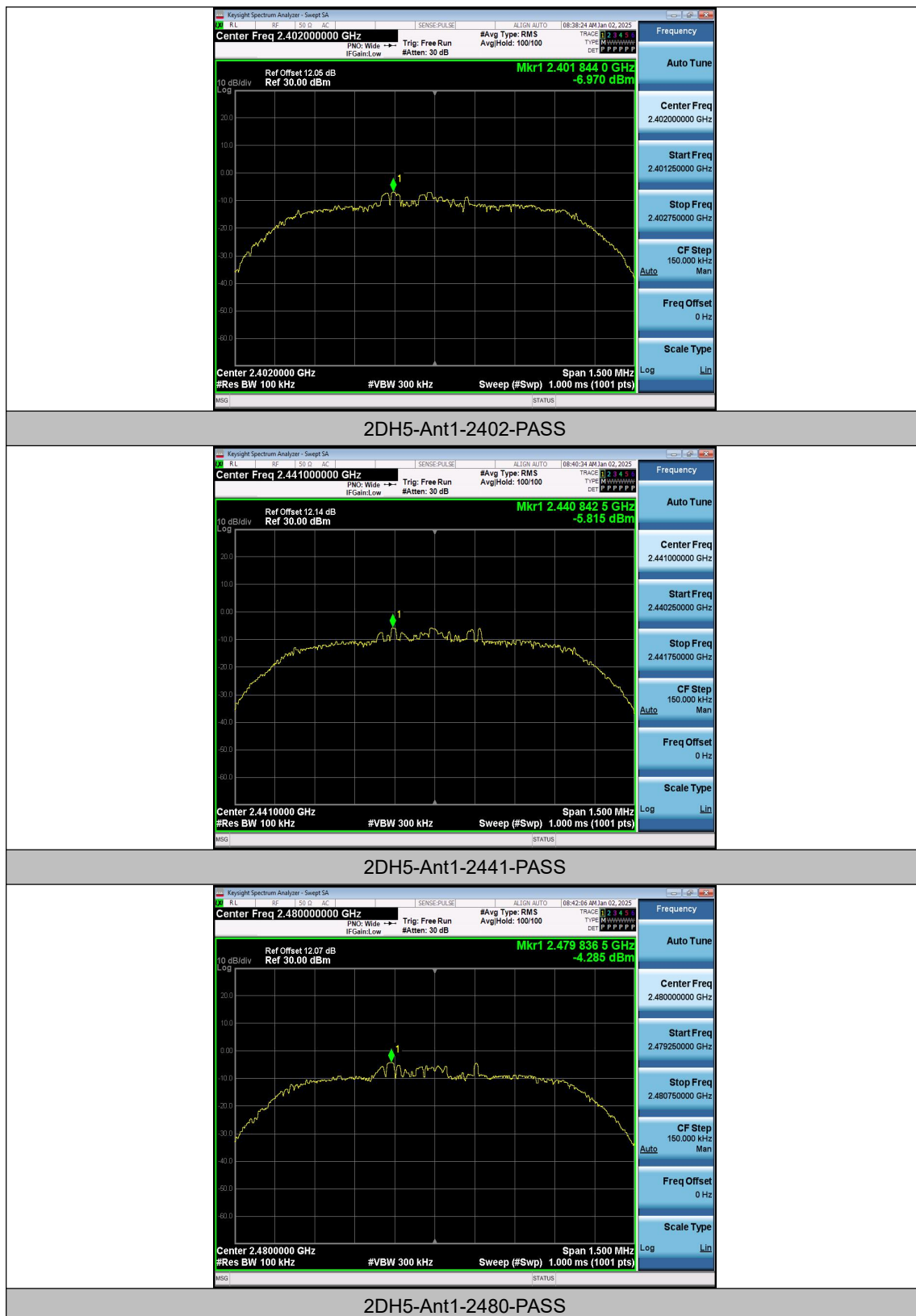
Appendix F: Reference level measurement

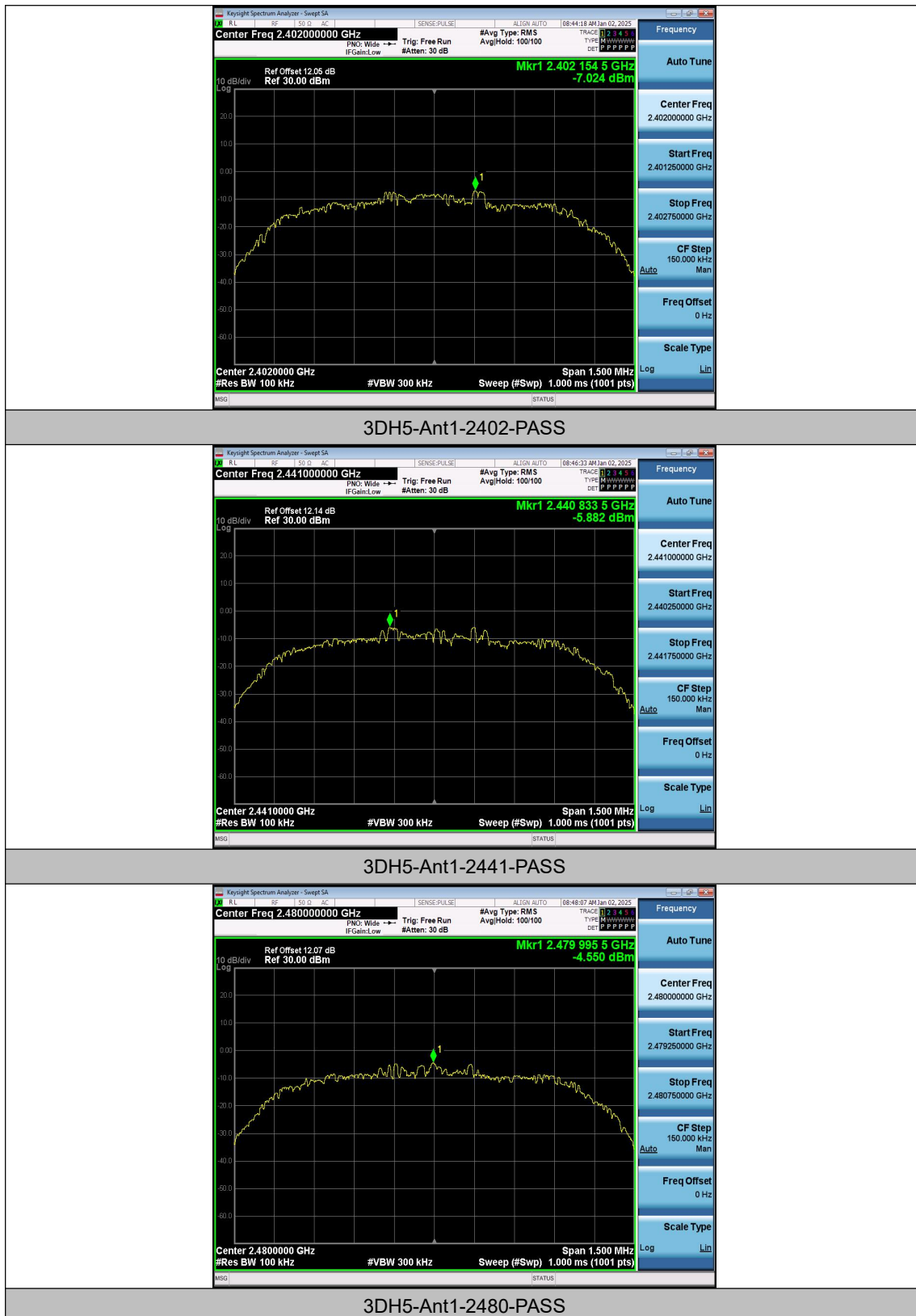
Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
DH5	Ant1	2402	2401.99	-7.21
DH5	Ant1	2441	2440.98	-5.82
DH5	Ant1	2480	2479.98	-4.38
2DH5	Ant1	2402	2401.84	-6.97
2DH5	Ant1	2441	2440.84	-5.82
2DH5	Ant1	2480	2479.84	-4.29
3DH5	Ant1	2402	2402.15	-7.02
3DH5	Ant1	2441	2440.83	-5.88
3DH5	Ant1	2480	2480.00	-4.55

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	-7.21	-46.71	≤-27.21	PASS
DH5	Ant1	High	2480	-4.38	-47.23	≤-24.38	PASS
DH5	Ant1	Low	Hop_2402	-7.23	-46.4	≤-27.23	PASS
DH5	Ant1	High	Hop_2480	-4.70	-46.43	≤-24.7	PASS
2DH5	Ant1	Low	2402	-6.97	-46.86	≤-26.97	PASS
2DH5	Ant1	High	2480	-4.29	-46.37	≤-24.29	PASS
2DH5	Ant1	Low	Hop_2402	-8.59	-46.75	≤-28.59	PASS
2DH5	Ant1	High	Hop_2480	-4.68	-46.54	≤-24.68	PASS
3DH5	Ant1	Low	2402	-7.02	-46.87	≤-27.02	PASS
3DH5	Ant1	High	2480	-4.55	-46.82	≤-24.55	PASS
3DH5	Ant1	Low	Hop_2402	-10.16	-46.93	≤-30.16	PASS
3DH5	Ant1	High	Hop_2480	-6.60	-46.49	≤-26.6	PASS