

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

Product Name: Karaoke Bluetooth Speaker PAW PATROL

Trade Mark: Lexibook

Test Model: MP320

FCC ID: UU8-MP320PAZ

Environmental Conditions

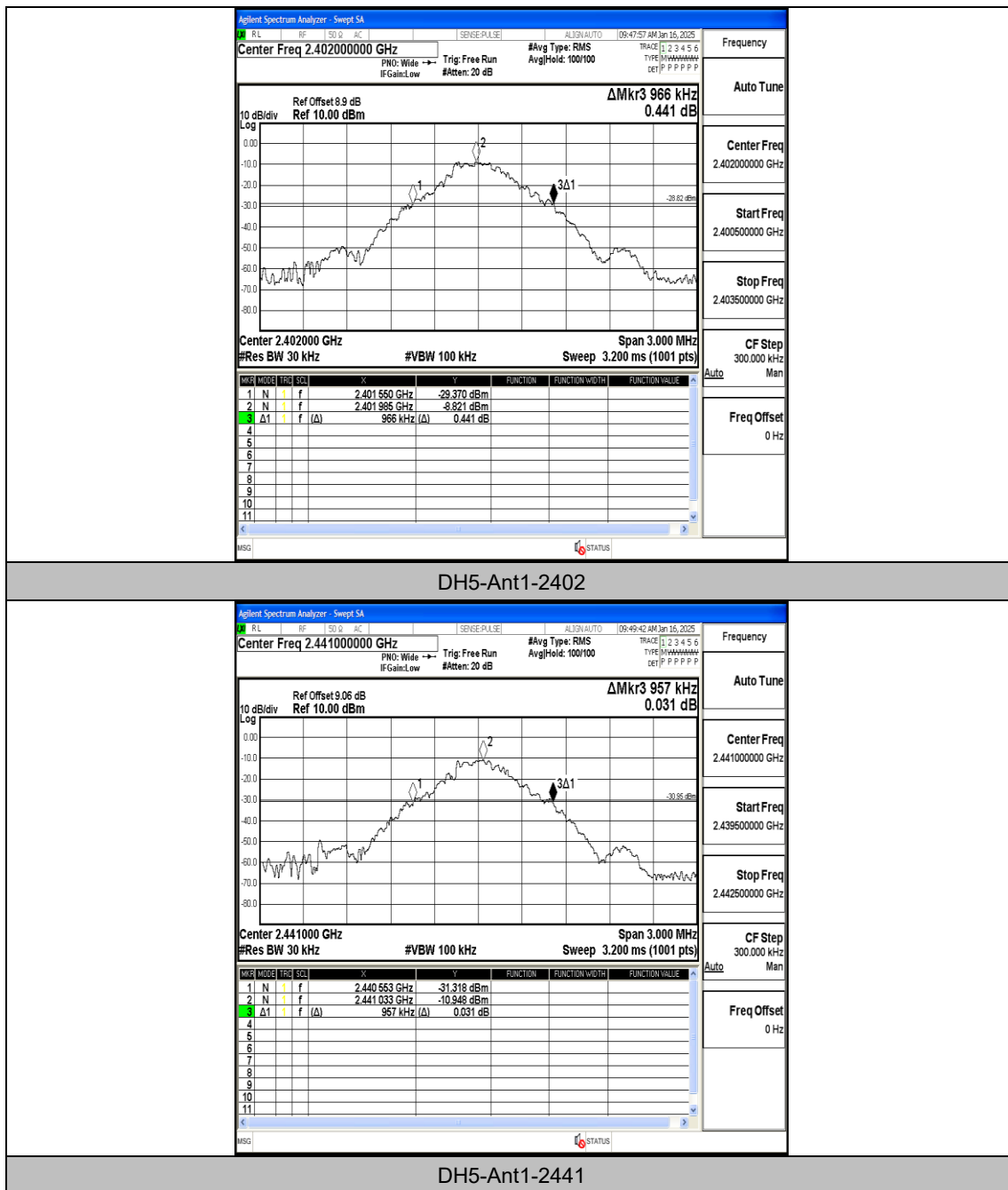
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: 20dB Emission Bandwidth

Test Result

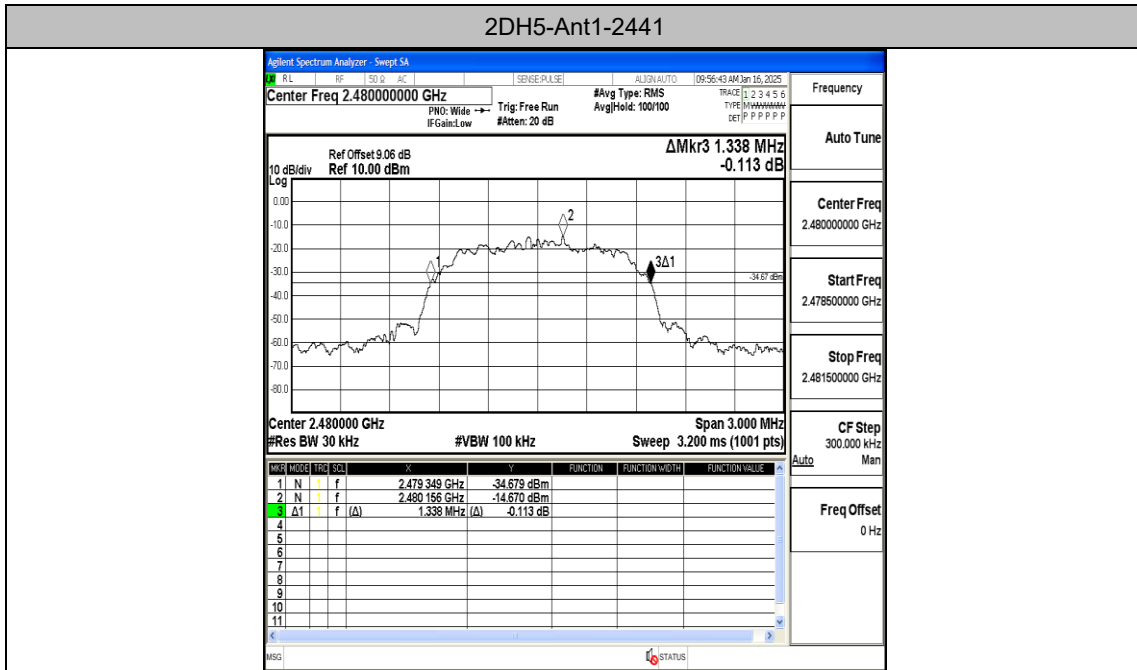
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.966	2401.550	2402.516	---	---
DH5	Ant1	2441	0.957	2440.553	2441.510	---	---
DH5	Ant1	2480	0.963	2479.550	2480.513	---	---
2DH5	Ant1	2402	1.329	2401.352	2402.681	---	---
2DH5	Ant1	2441	1.341	2440.346	2441.687	---	---
2DH5	Ant1	2480	1.338	2479.349	2480.687	---	---
3DH5	Ant1	2402	1.305	2401.367	2402.672	---	---
3DH5	Ant1	2441	1.323	2440.358	2441.681	---	---
3DH5	Ant1	2480	1.326	2479.358	2480.684	---	---

Test Graphs

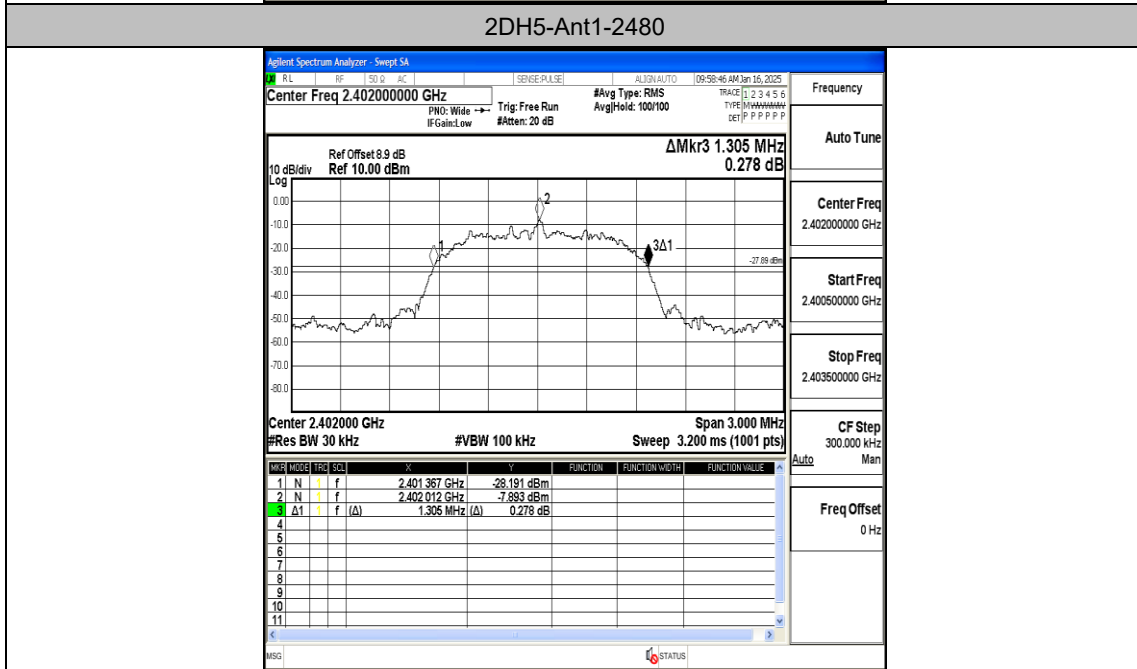




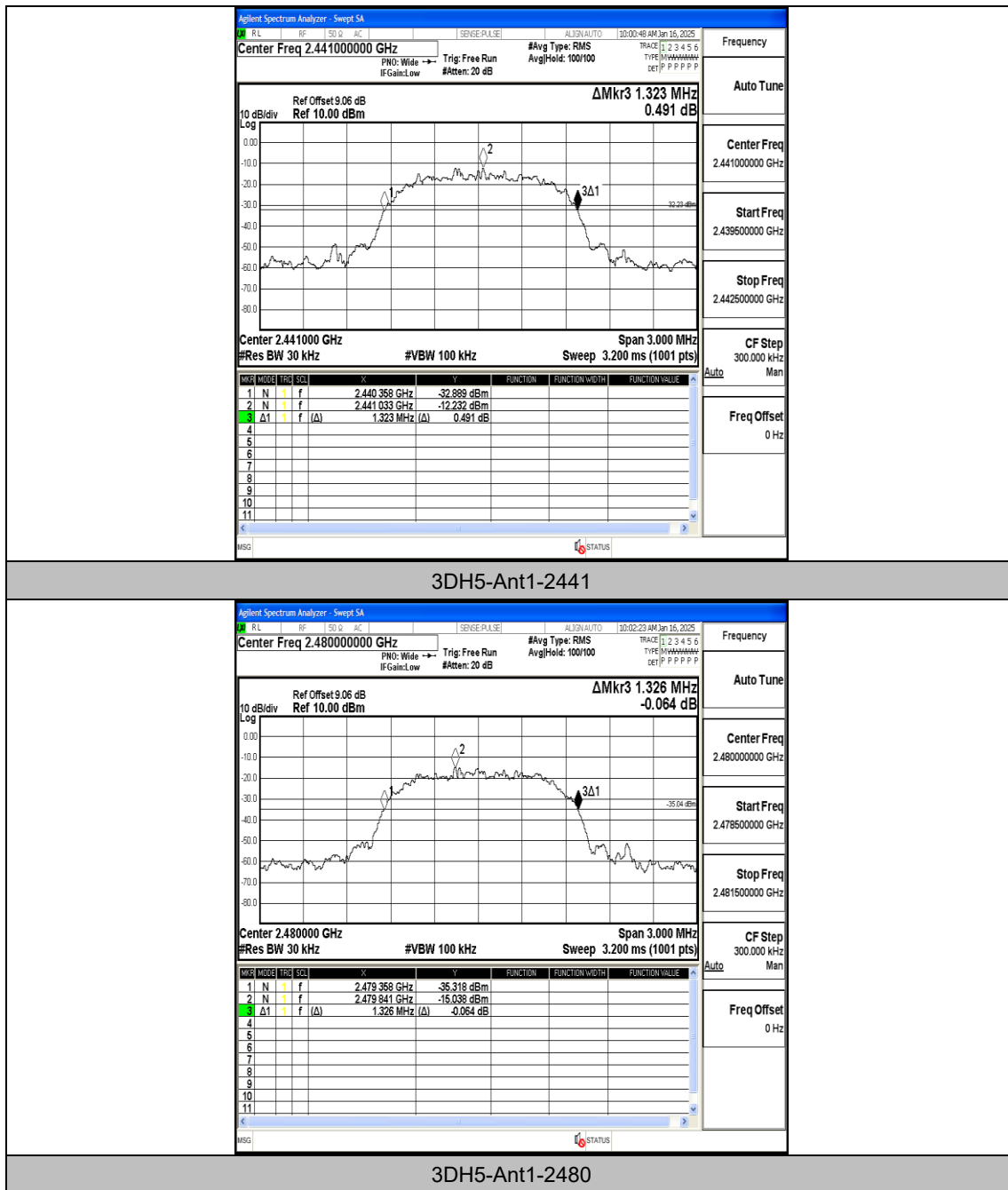
2DH5-Ant1-2441



2DH5-Ant1-2480



3DH5-Ant1-2402

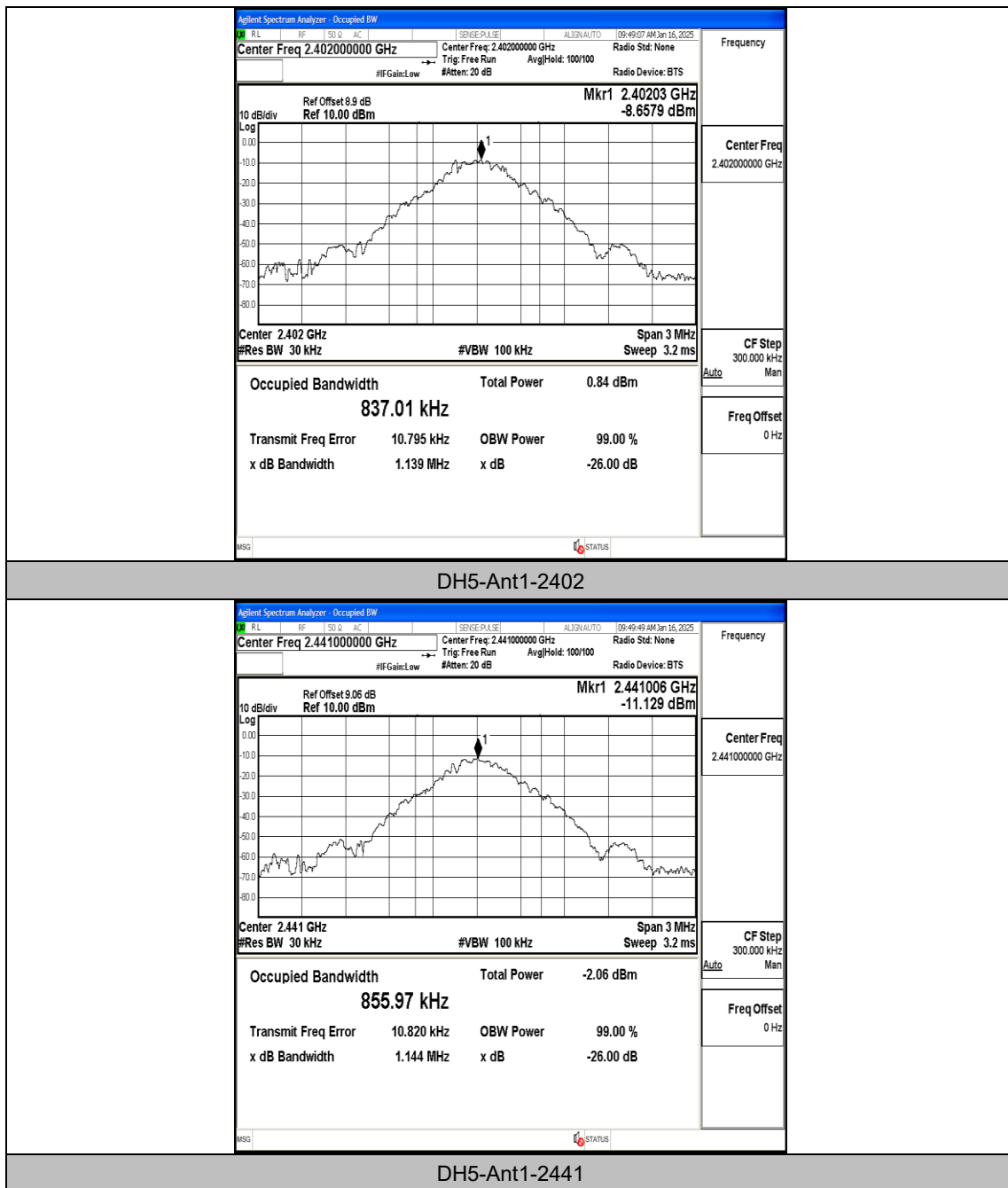


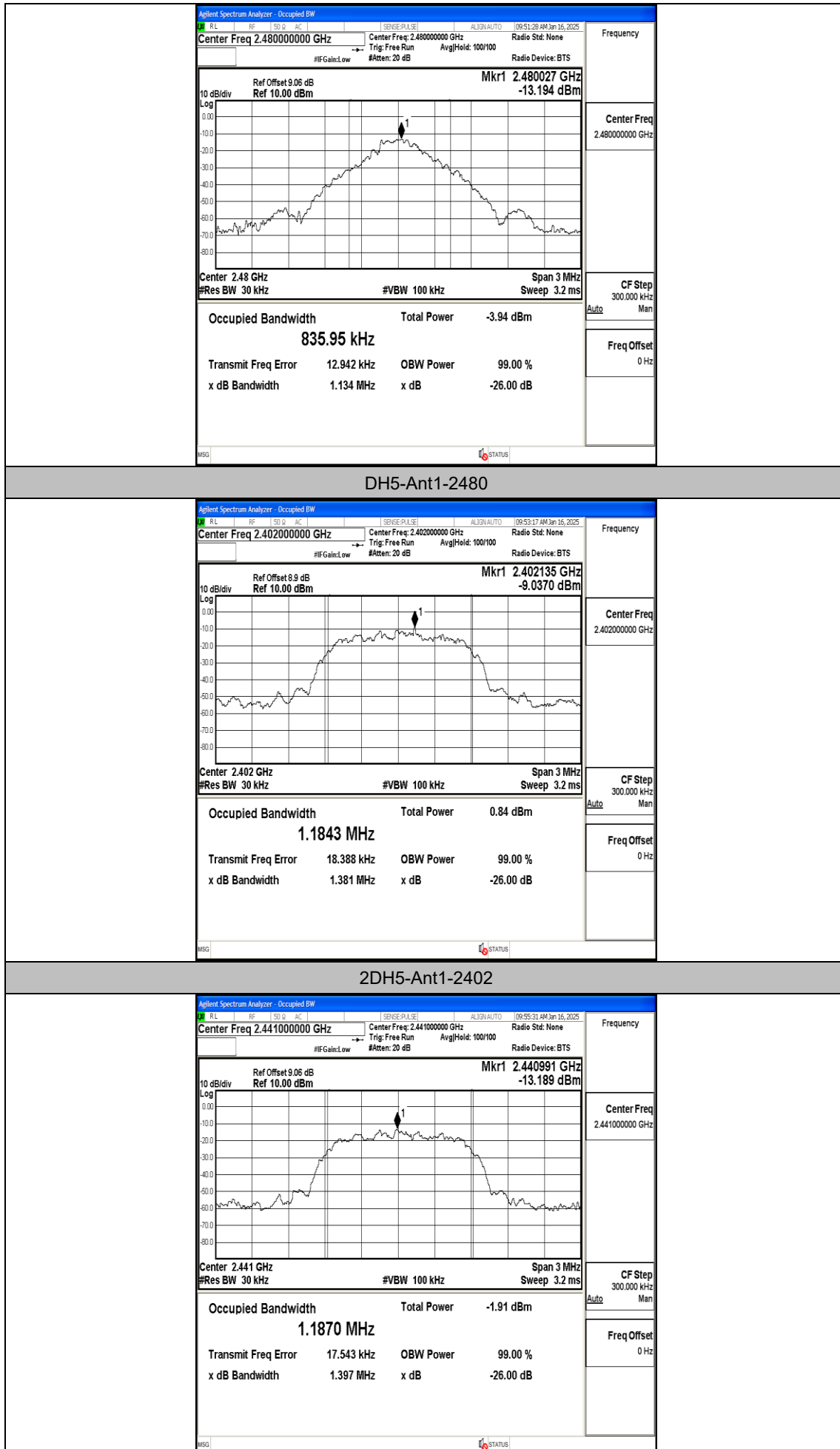
Appendix B: Occupied Channel Bandwidth

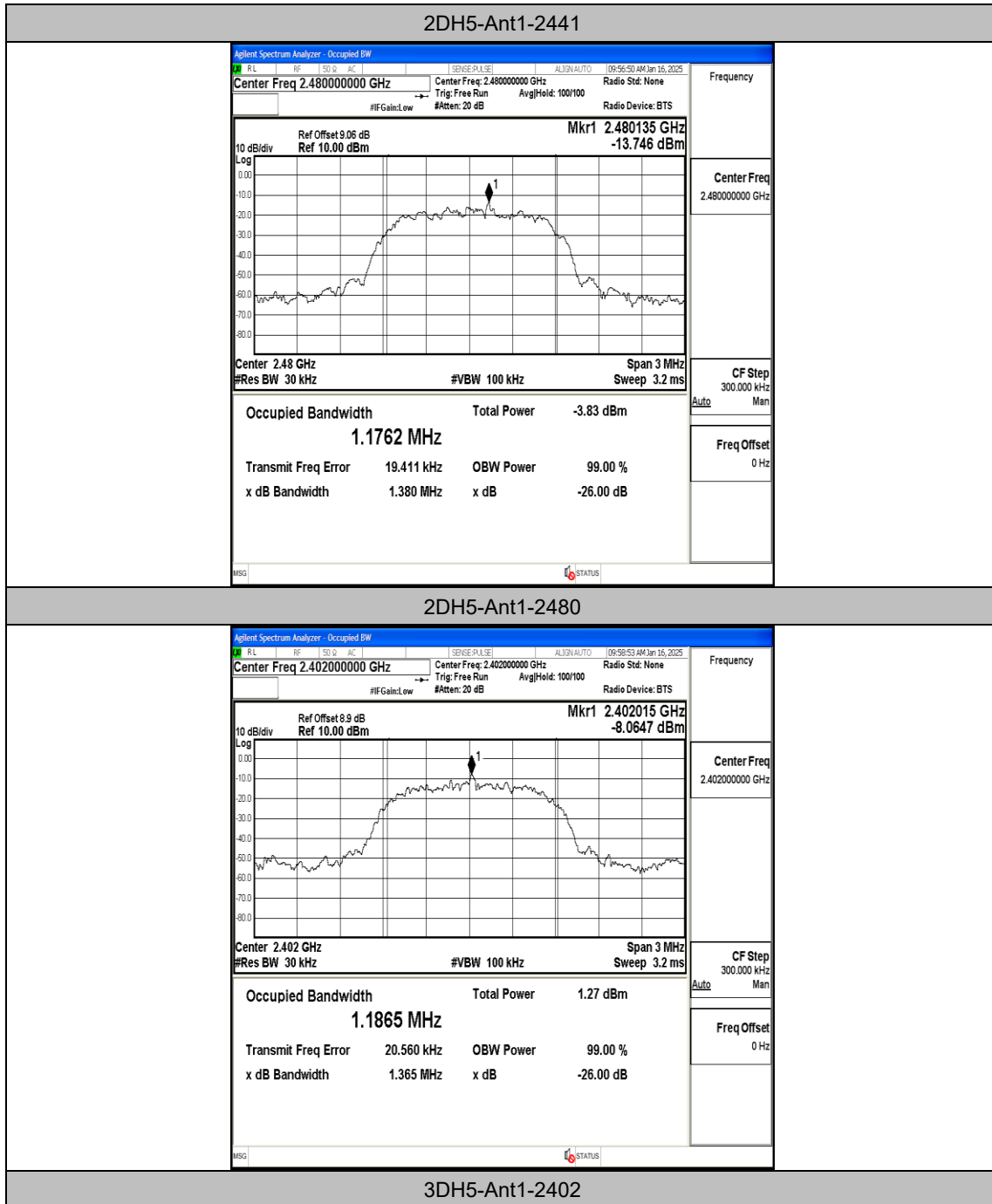
Test Result

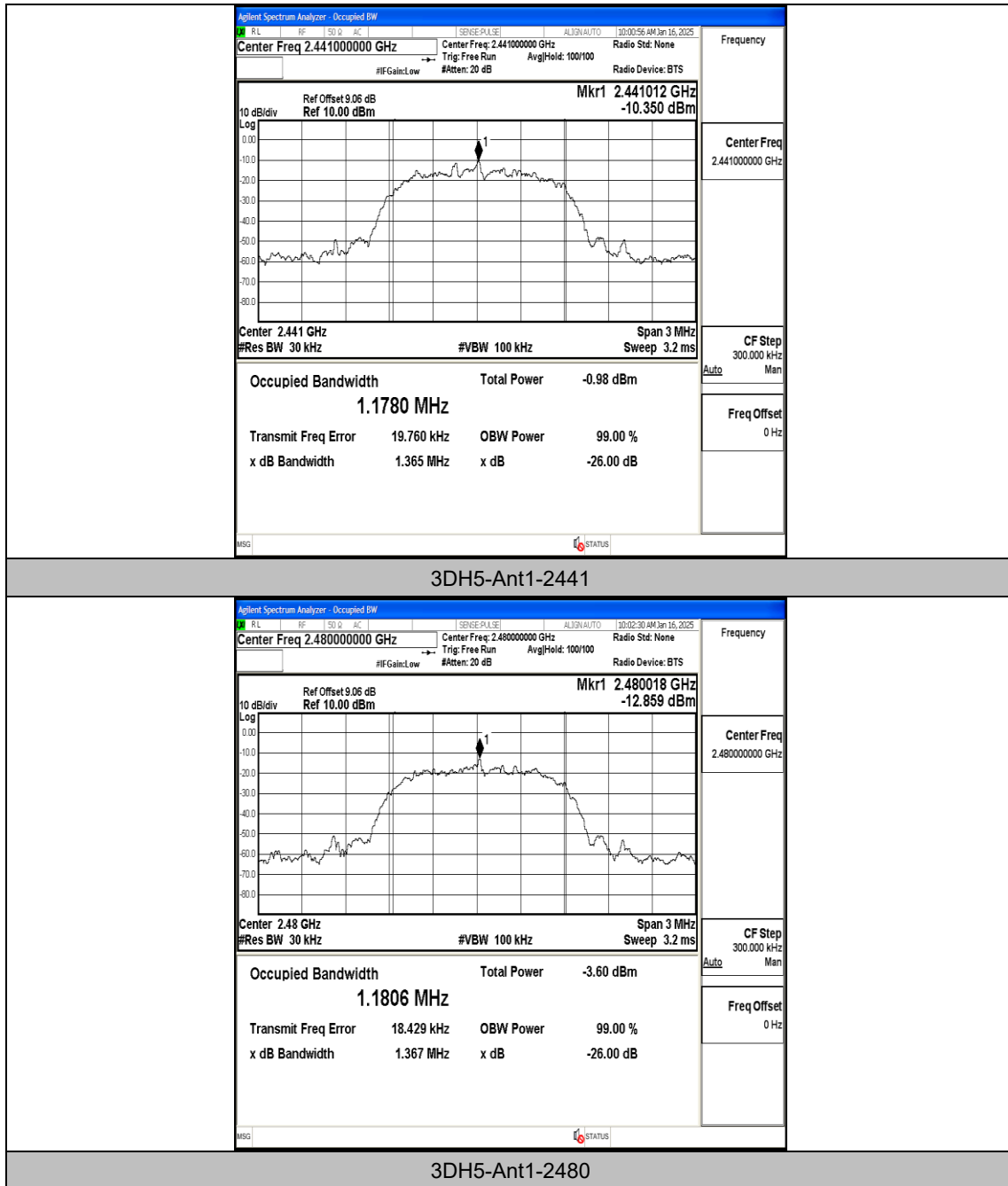
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.83701	2401.5923	2402.4293	---	---
DH5	Ant1	2441	0.85597	2440.5828	2441.4388	---	---
DH5	Ant1	2480	0.83595	2479.5950	2480.4309	---	---
2DH5	Ant1	2402	1.1843	2401.4262	2402.6105	---	---
2DH5	Ant1	2441	1.1870	2440.4240	2441.6110	---	---
2DH5	Ant1	2480	1.1762	2479.4313	2480.6075	---	---
3DH5	Ant1	2402	1.1865	2401.4273	2402.6138	---	---
3DH5	Ant1	2441	1.1780	2440.4308	2441.6088	---	---
3DH5	Ant1	2480	1.1806	2479.4281	2480.6087	---	---

Test Graphs







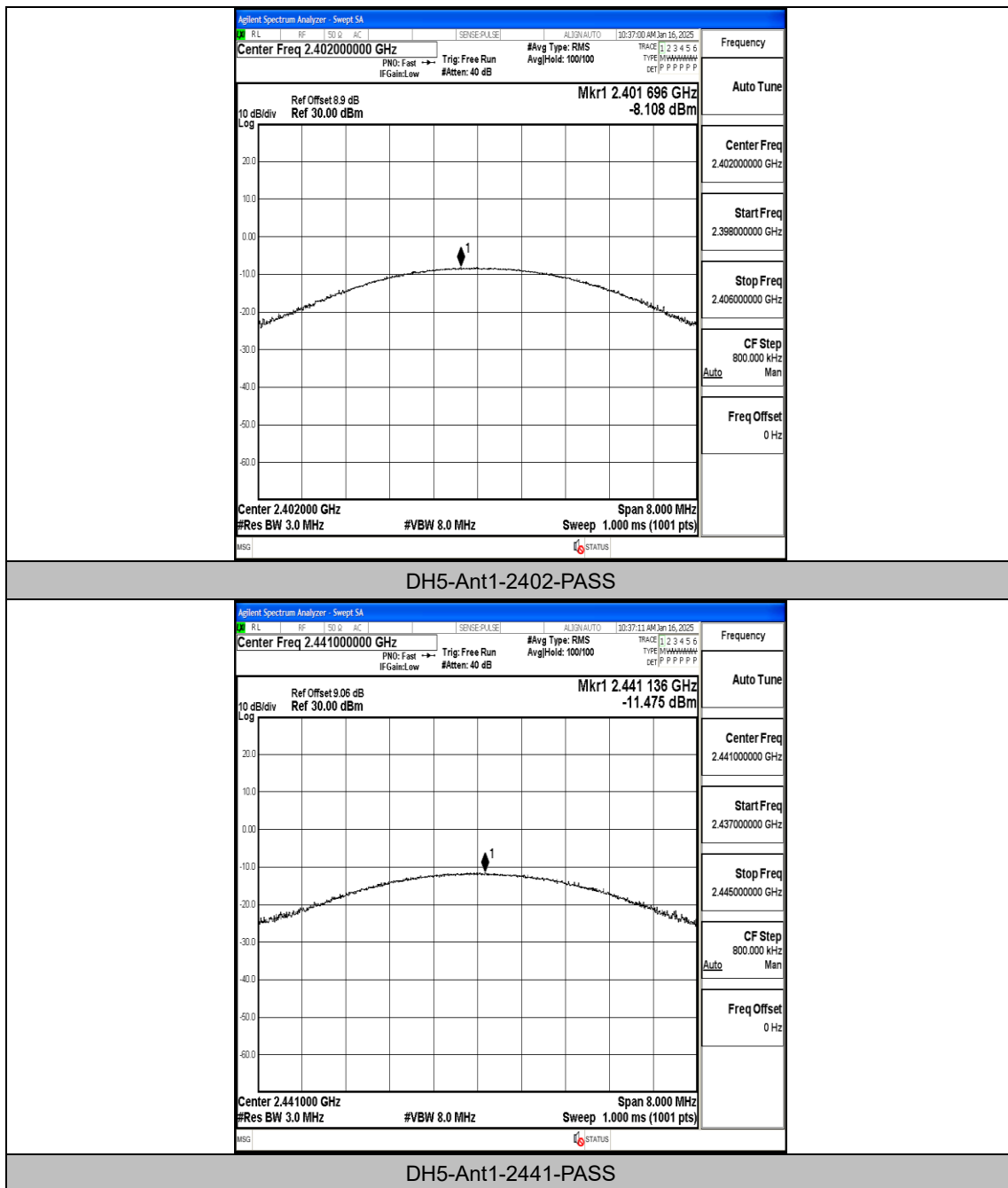


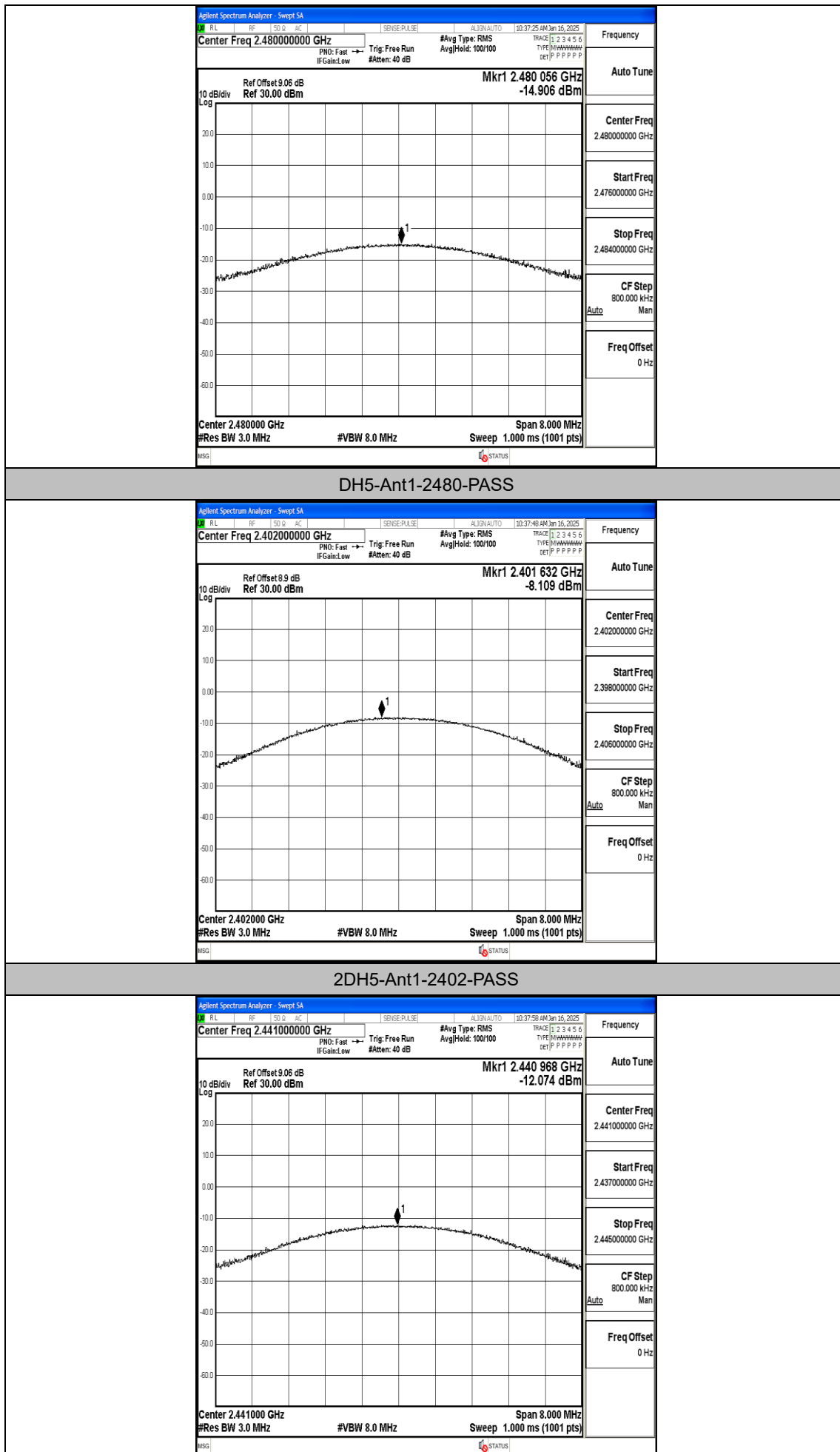
Appendix C: Maximum peak conducted output power

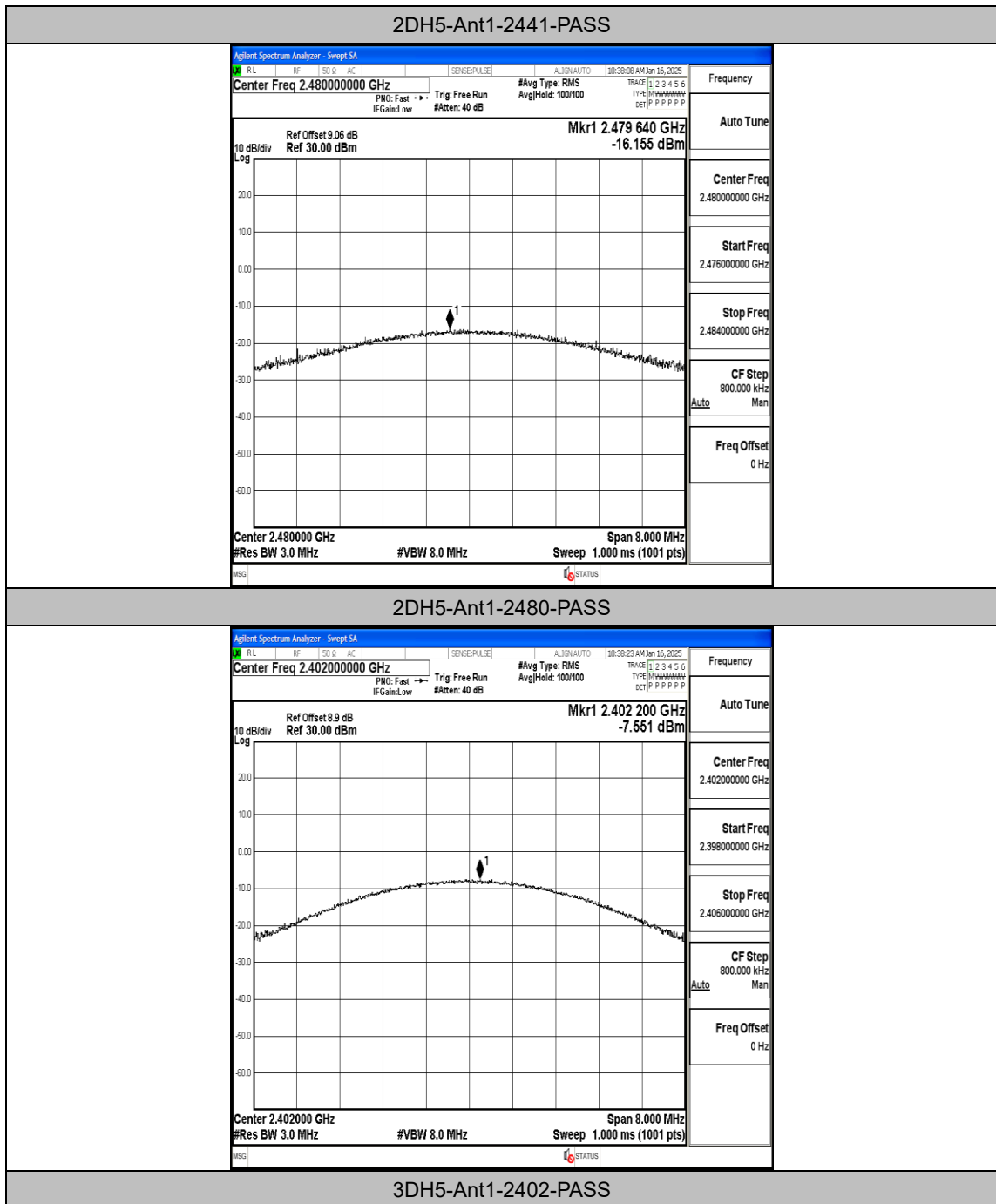
Test Result

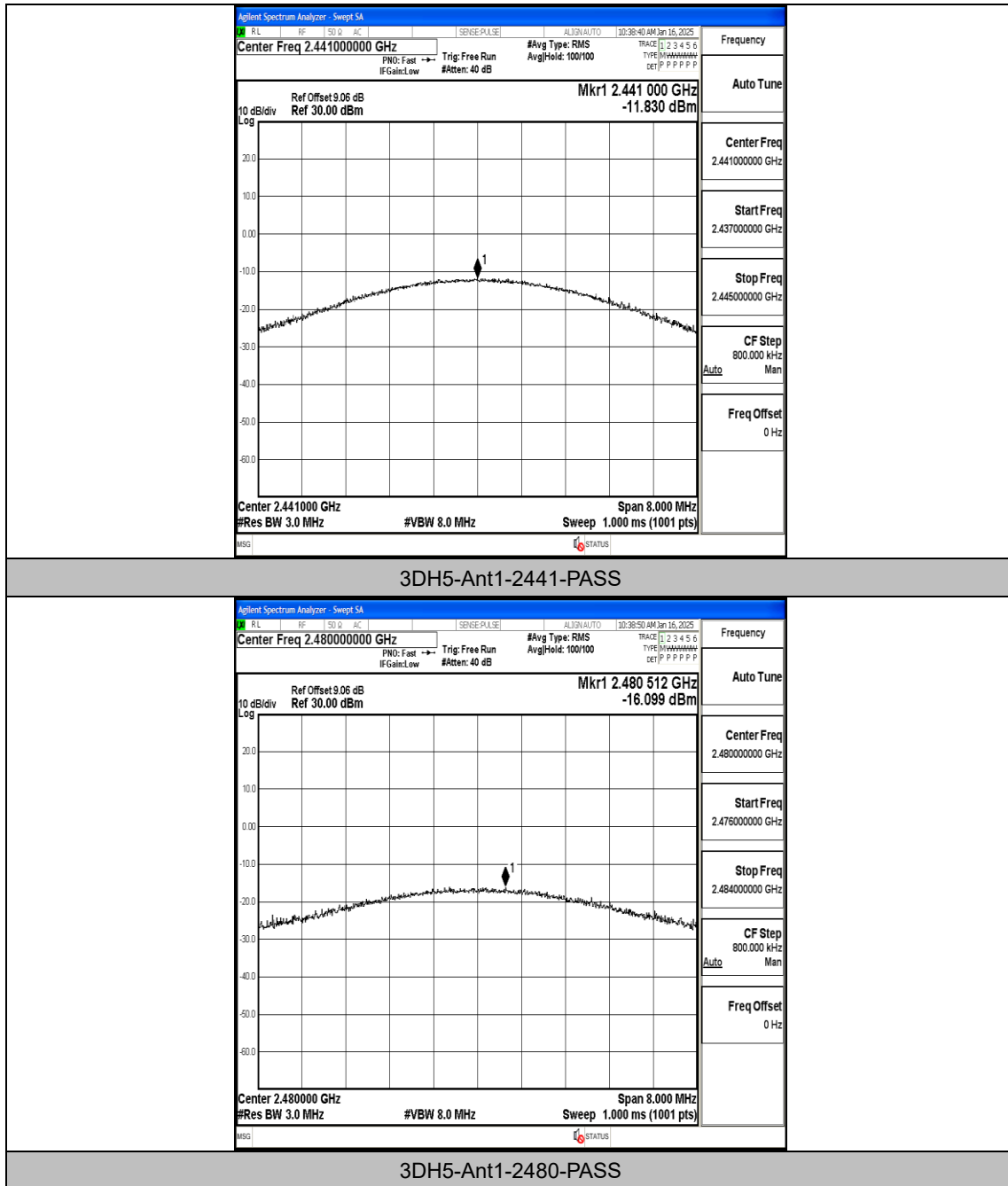
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-8.11	≤30	PASS
DH5	Ant1	2441	-11.48	≤30	PASS
DH5	Ant1	2480	-14.91	≤30	PASS
2DH5	Ant1	2402	-8.11	≤20.97	PASS
2DH5	Ant1	2441	-12.07	≤20.97	PASS
2DH5	Ant1	2480	-16.16	≤20.97	PASS
3DH5	Ant1	2402	-7.55	≤20.97	PASS
3DH5	Ant1	2441	-11.83	≤20.97	PASS
3DH5	Ant1	2480	-16.10	≤20.97	PASS

Test Graphs







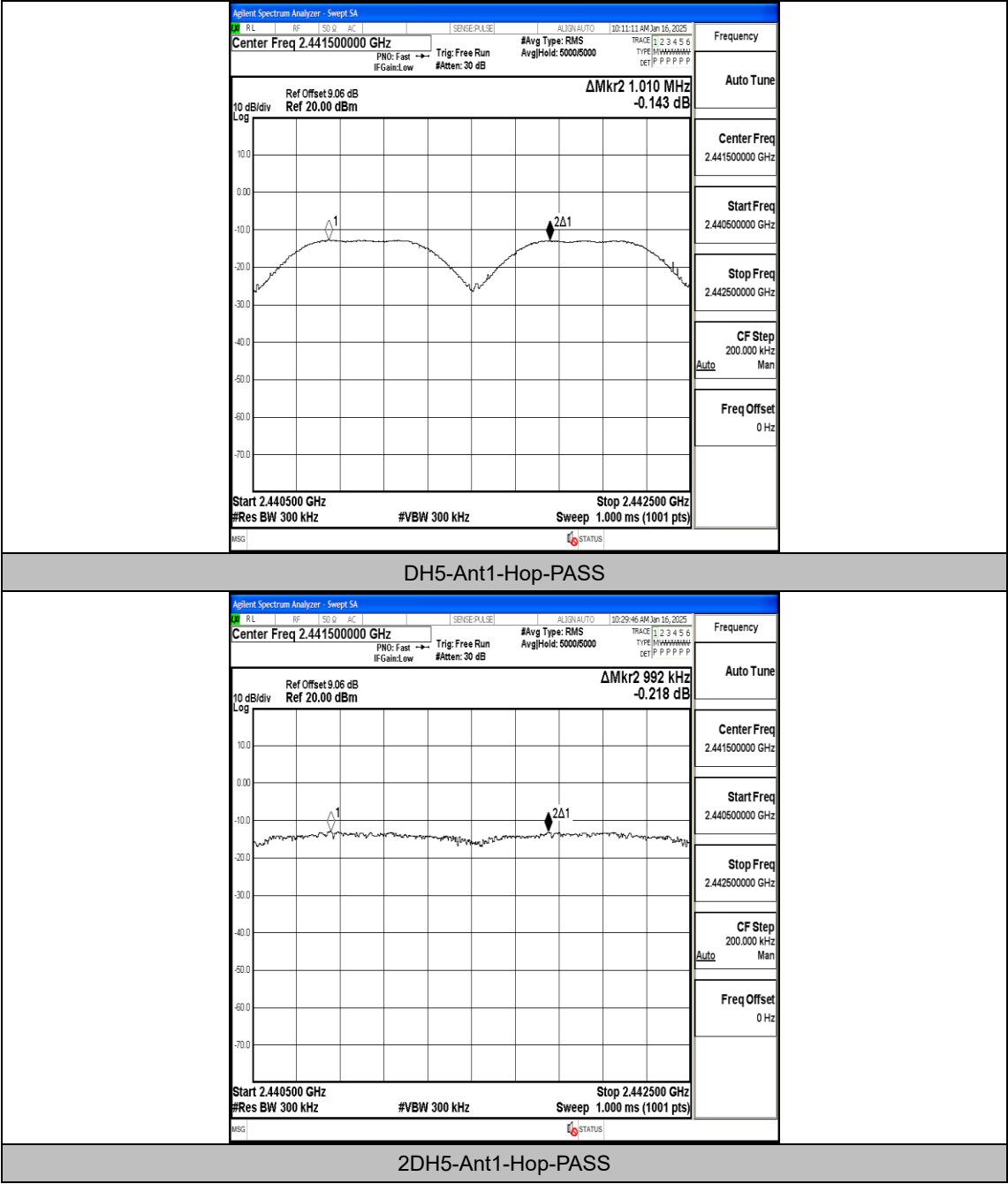


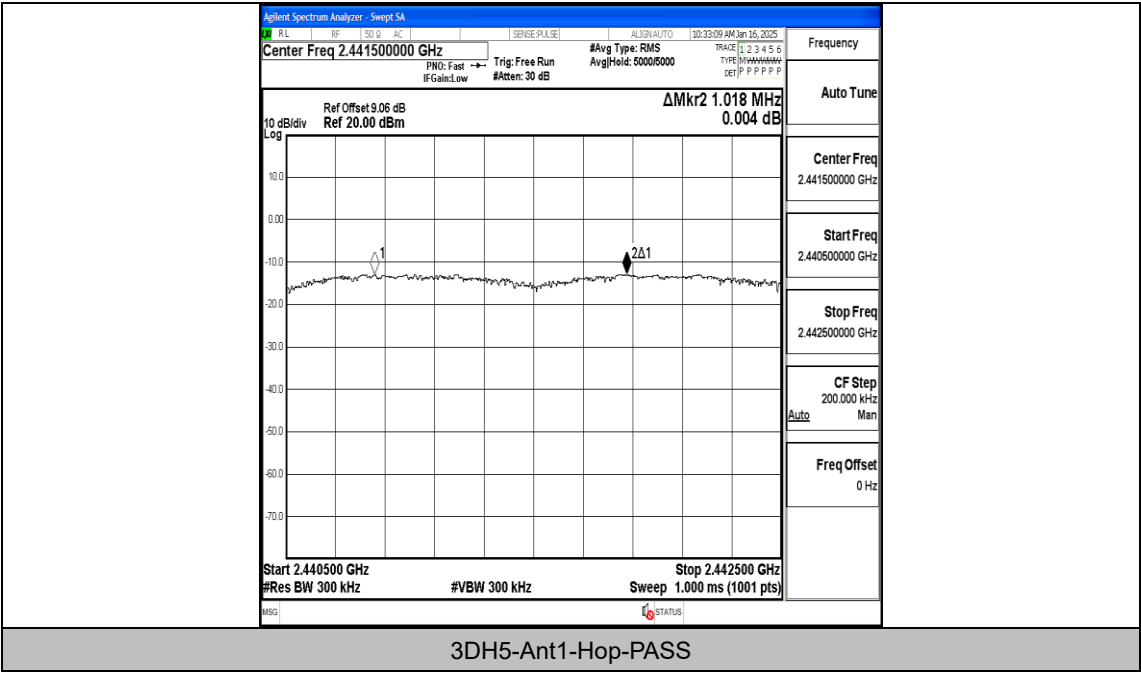
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.01	≥ 0.966	PASS
2DH5	Ant1	Hop	0.992	≥ 0.894	PASS
3DH5	Ant1	Hop	1.018	≥ 0.884	PASS

Test Graphs



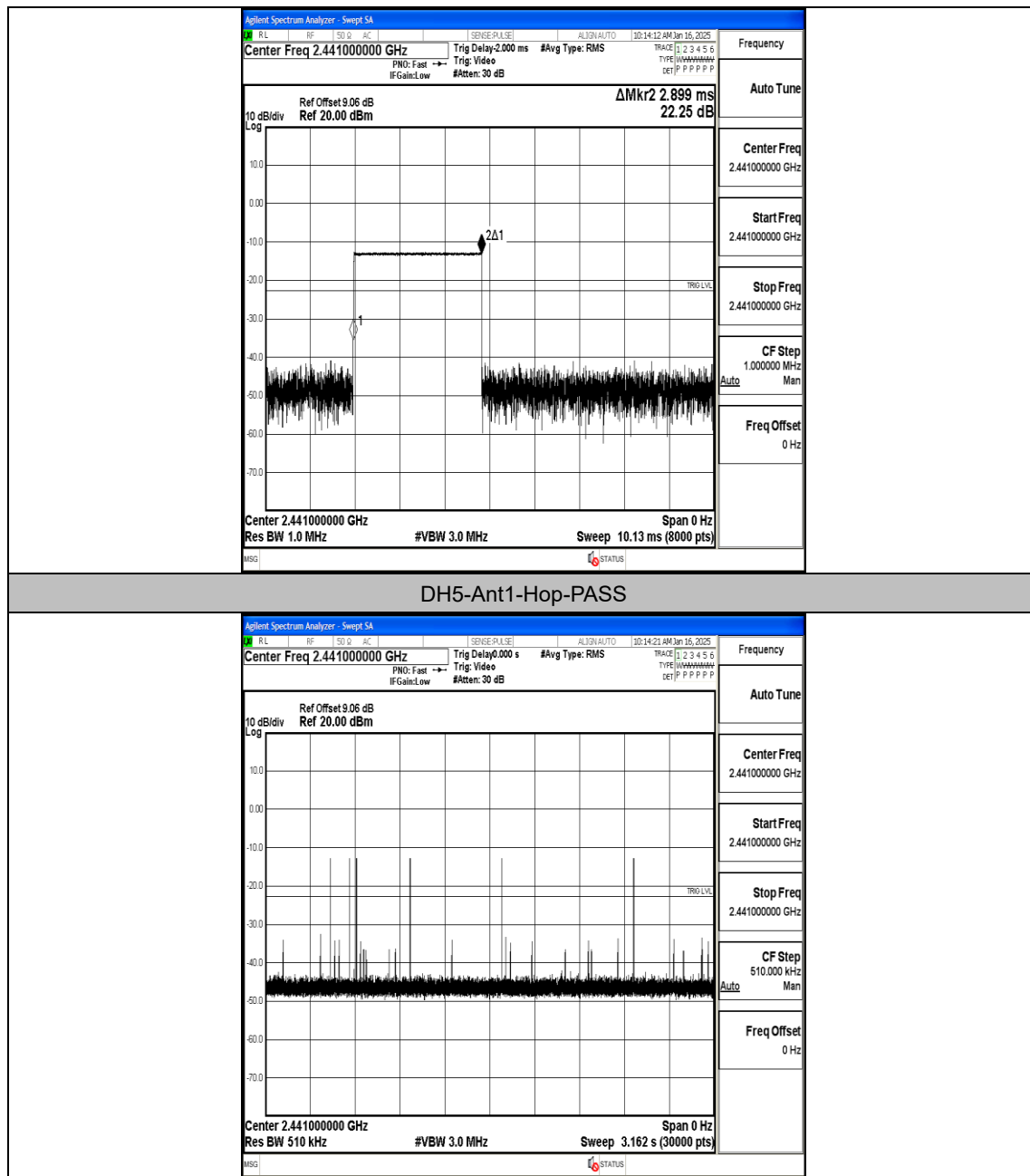


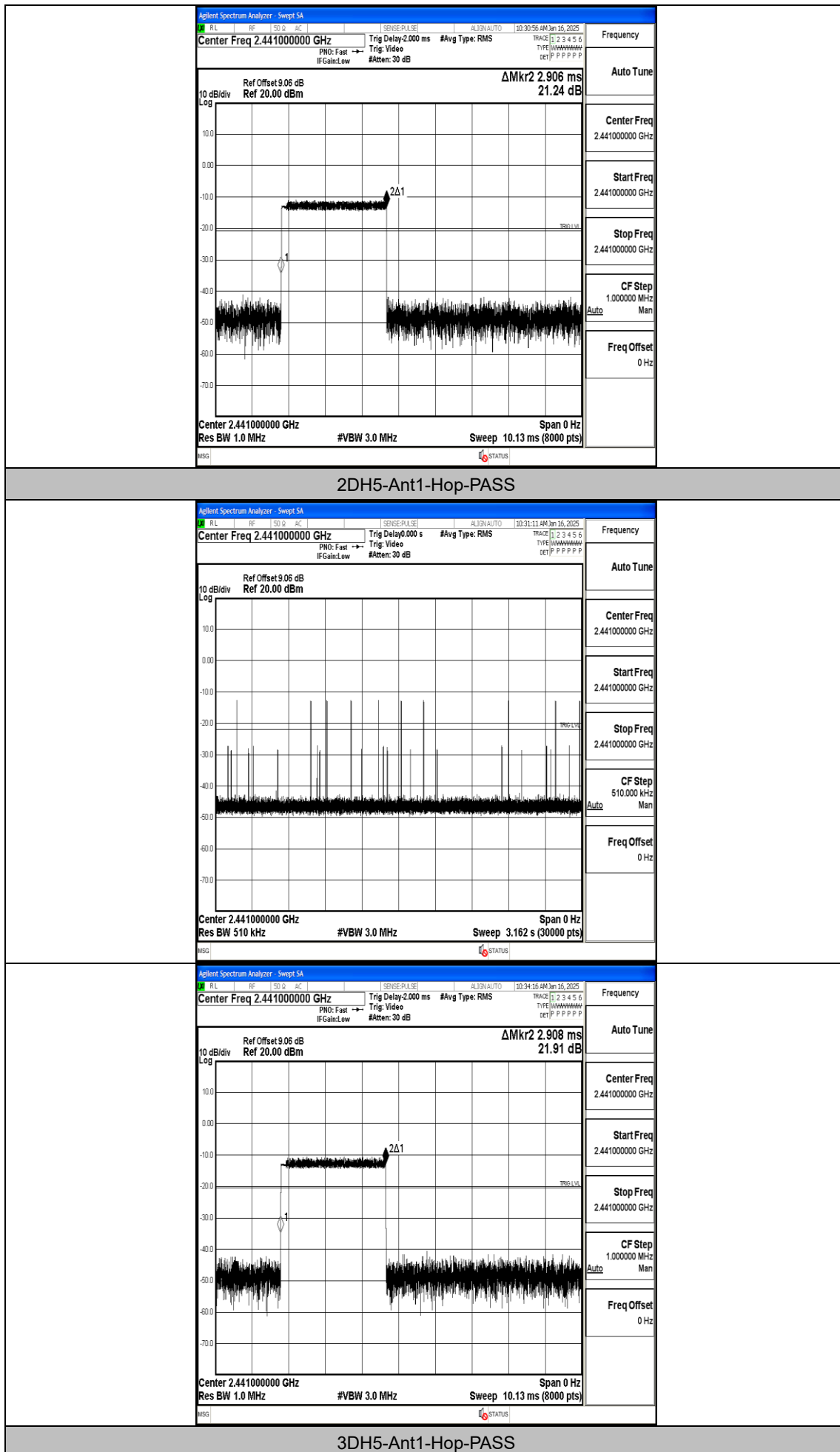
Appendix E: Time of occupancy

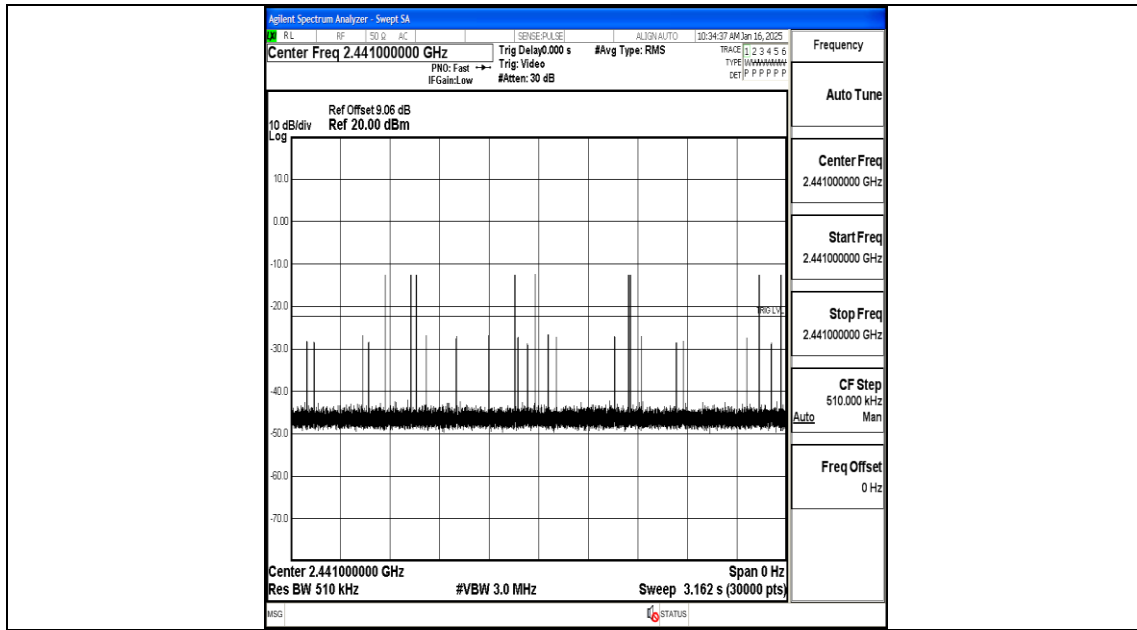
Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.899	70	0.203	≤0.4	PASS
2DH5	Ant1	Hop	2.906	110	0.32	≤0.4	PASS
3DH5	Ant1	Hop	2.908	100	0.291	≤0.4	PASS

Test Graphs





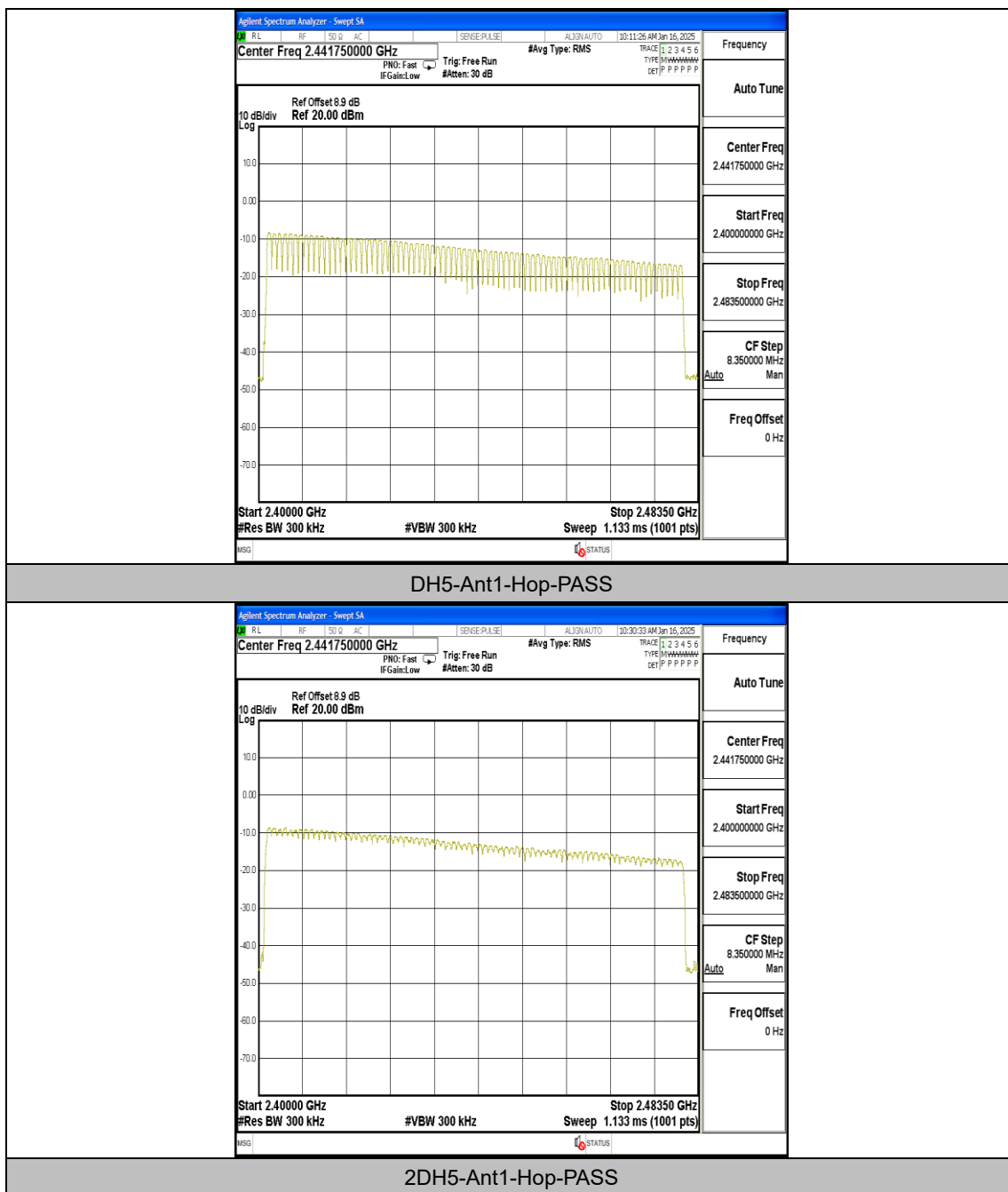


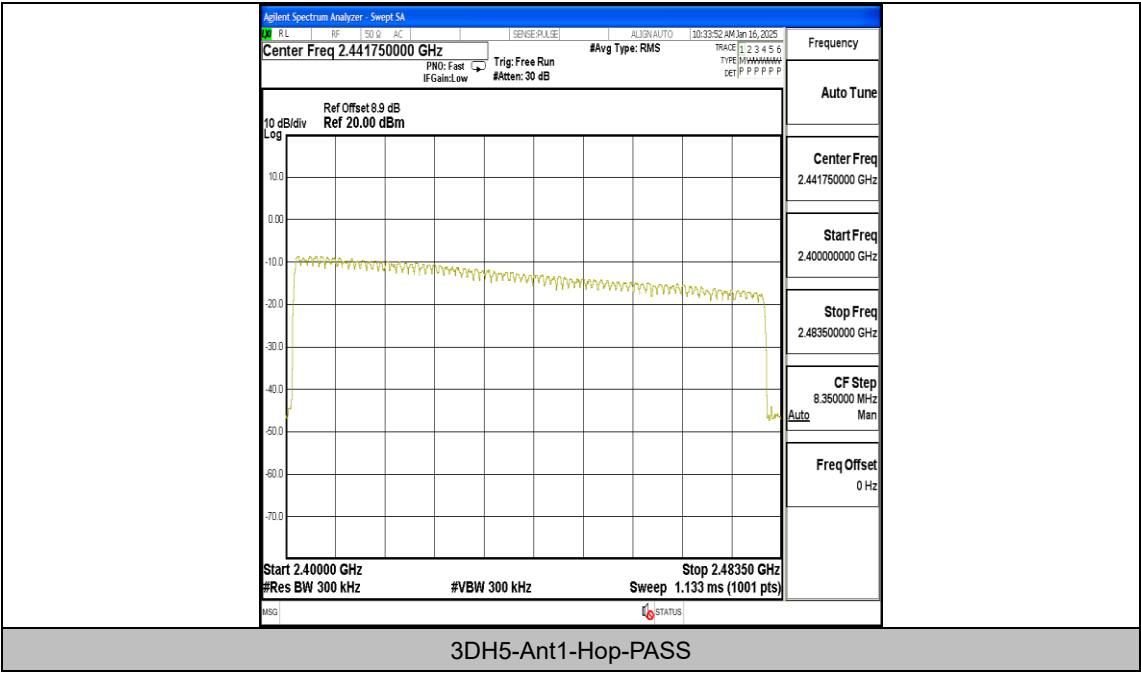
Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



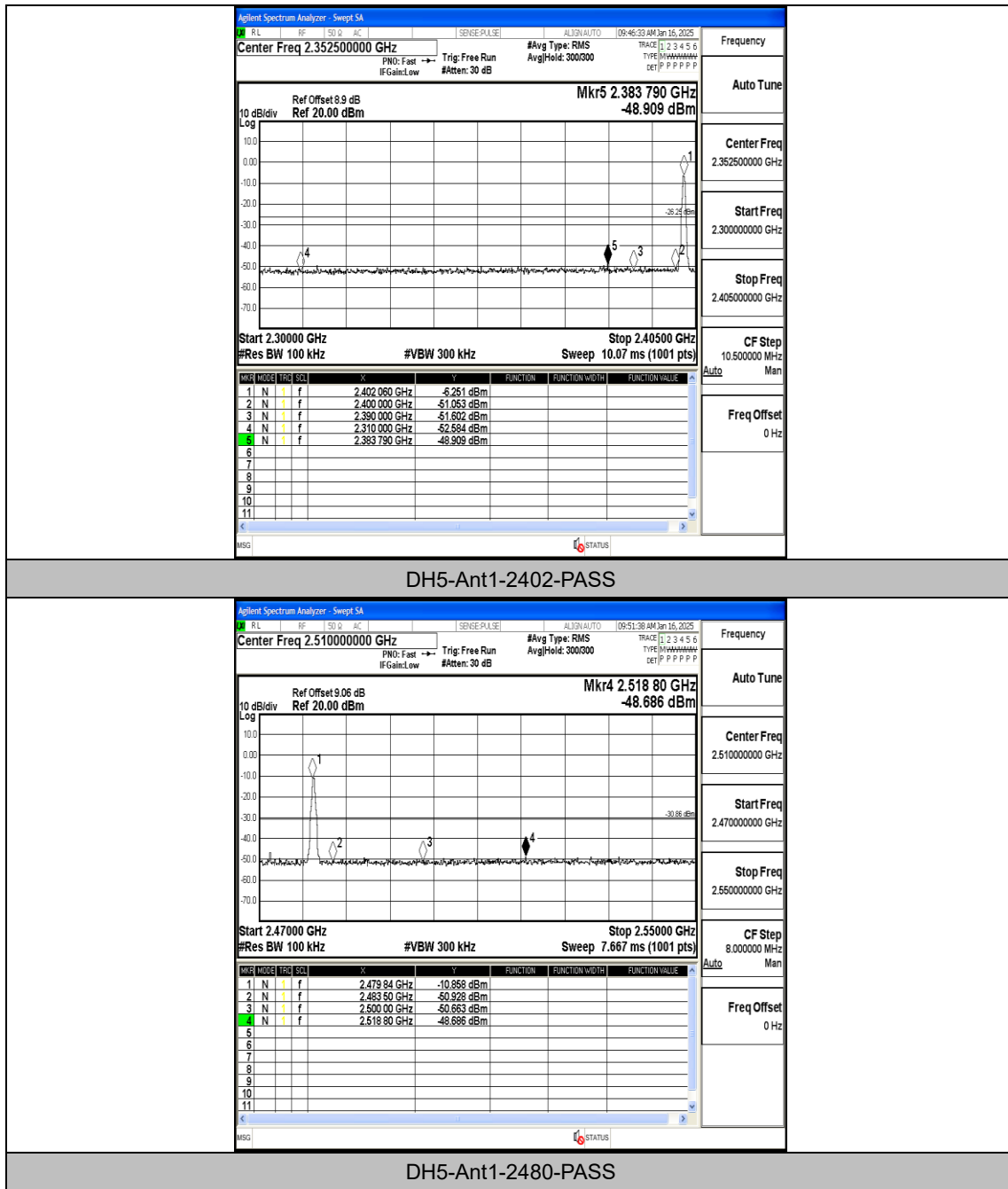


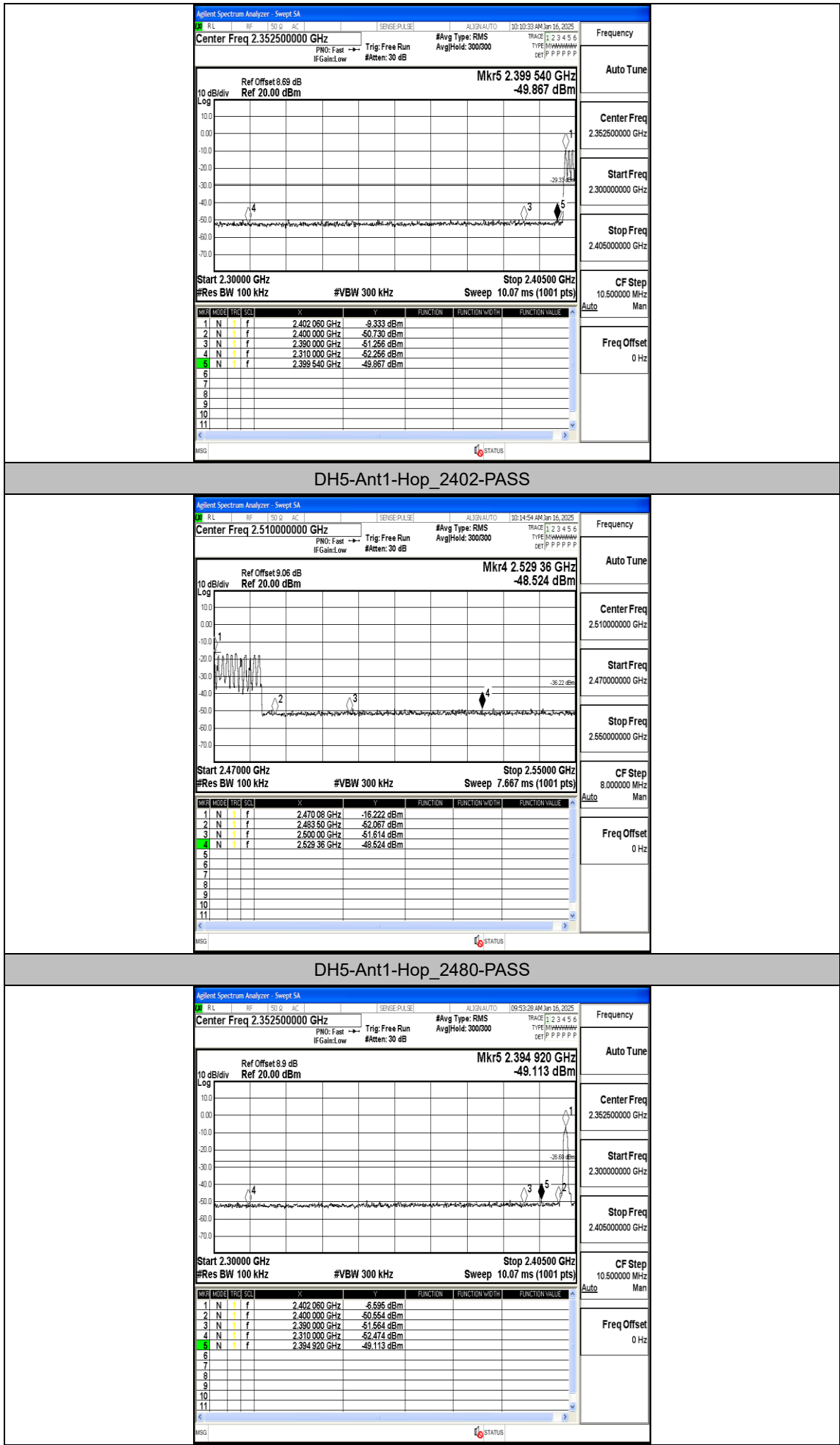
Appendix G: Band edge measurements

Test Result

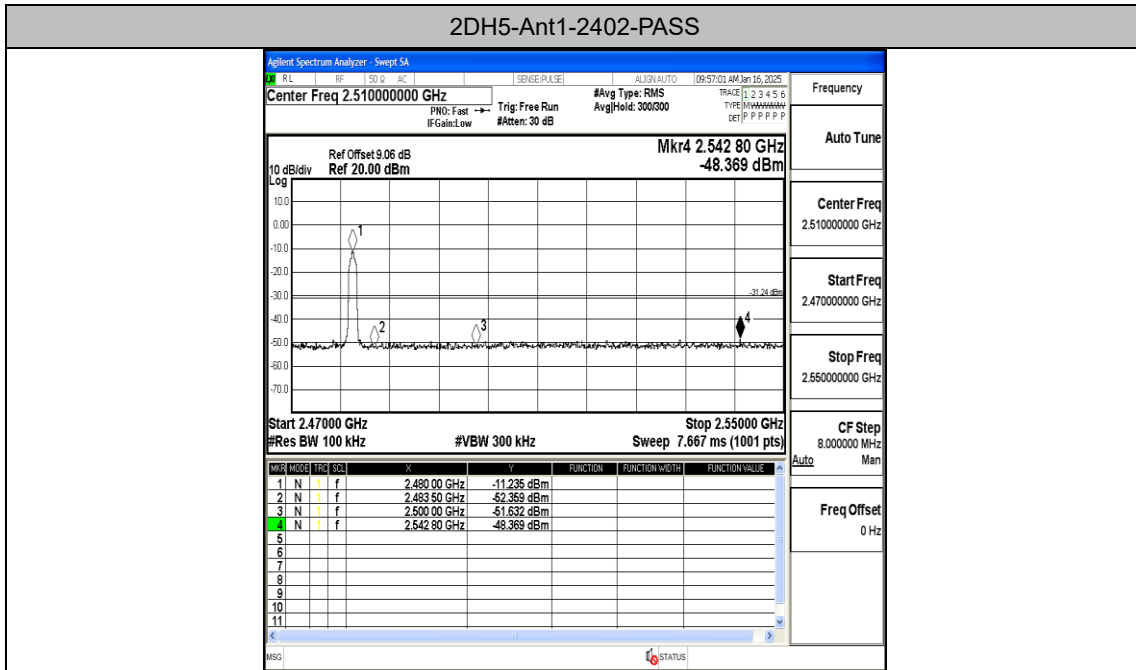
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-6.25	-48.91	≤-26.25	PASS
DH5	Ant1	High	2480	-10.86	-48.69	≤-30.86	PASS
DH5	Ant1	Low	Hop_2402	-9.33	-49.87	≤-29.33	PASS
DH5	Ant1	High	Hop_2480	-16.22	-48.52	≤-36.22	PASS
2DH5	Ant1	Low	2402	-6.60	-49.11	≤-26.6	PASS
2DH5	Ant1	High	2480	-11.24	-48.37	≤-31.24	PASS
2DH5	Ant1	Low	Hop_2402	-12.00	-49.22	≤-32	PASS
2DH5	Ant1	High	Hop_2480	-17.74	-48.13	≤-37.74	PASS
3DH5	Ant1	Low	2402	-6.17	-48.91	≤-26.17	PASS
3DH5	Ant1	High	2480	-11.36	-49.15	≤-31.36	PASS
3DH5	Ant1	Low	Hop_2402	-10.18	-49.67	≤-30.18	PASS
3DH5	Ant1	High	Hop_2480	-17.09	-47.85	≤-37.09	PASS

Test Graphs

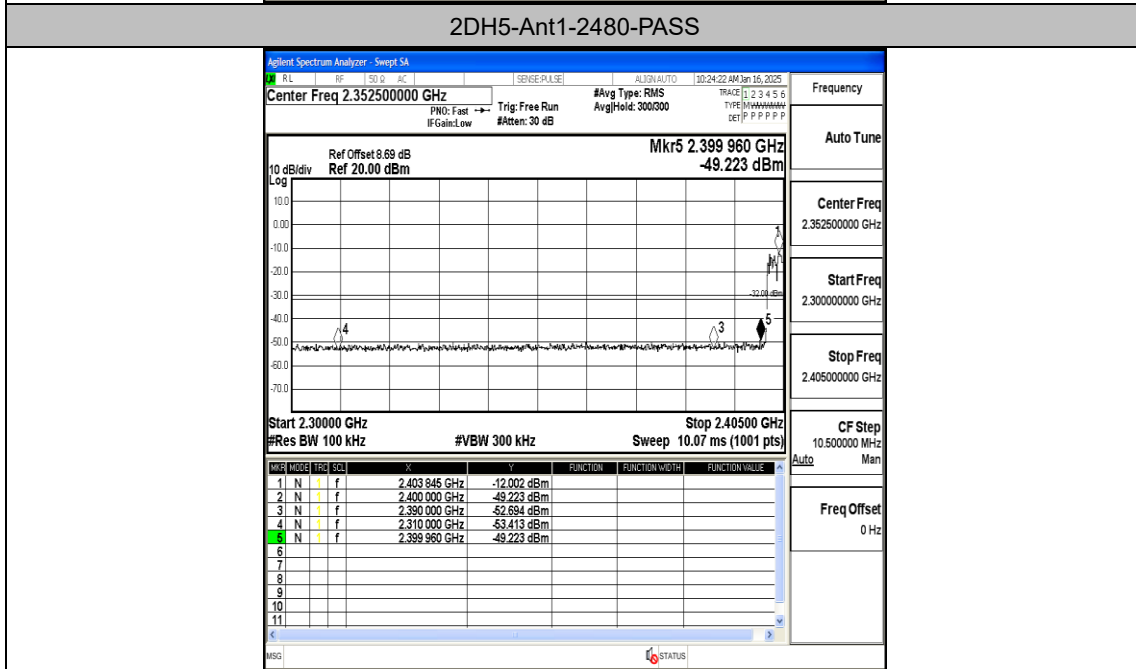




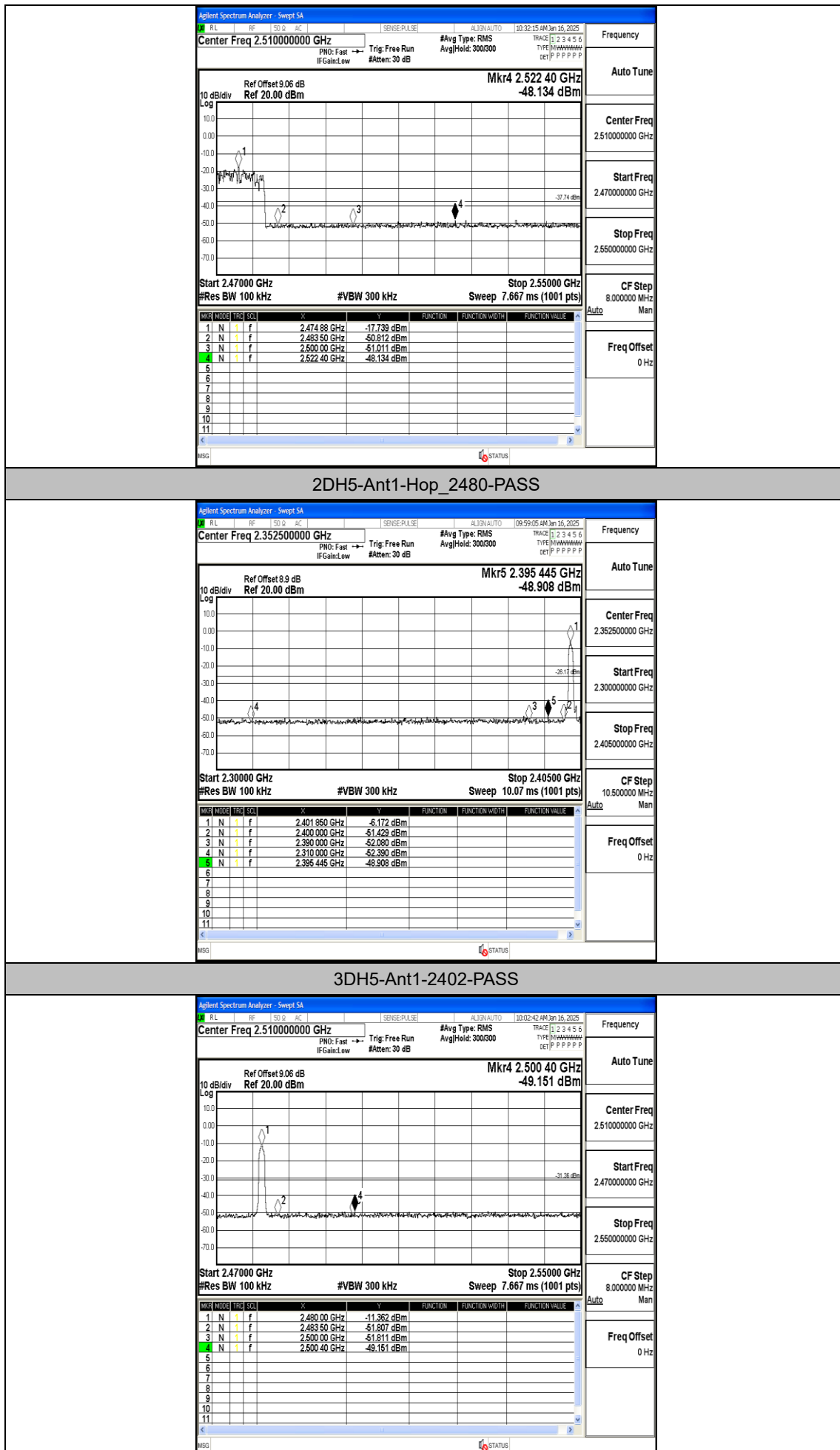
2DH5-Ant1-2402-PASS



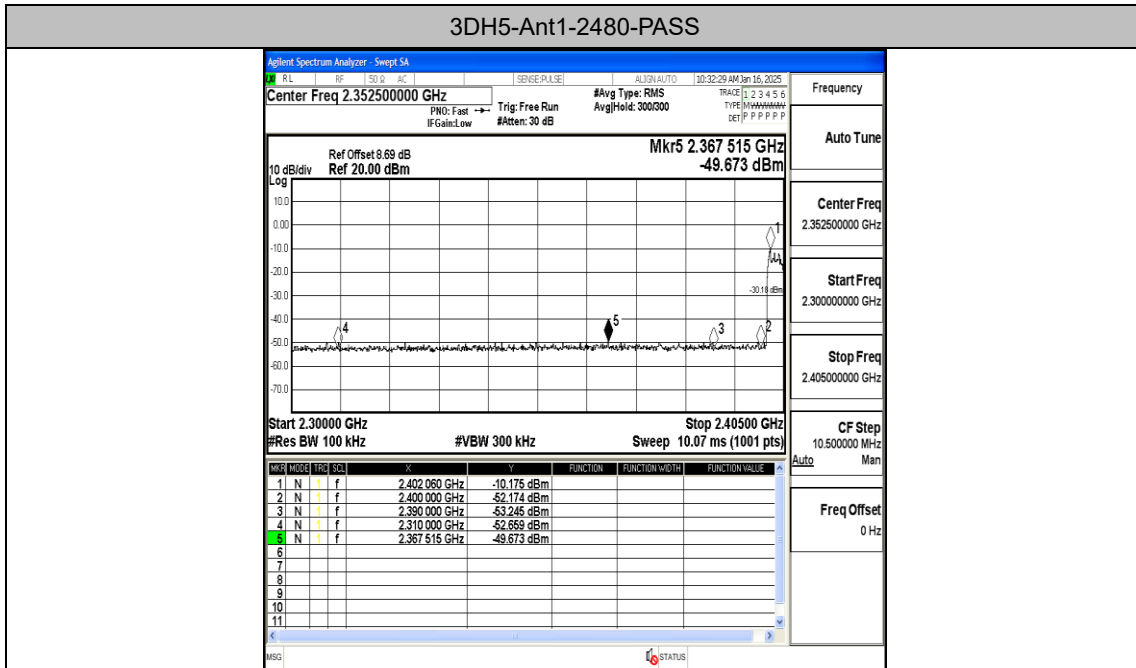
2DH5-Ant1-2480-PASS



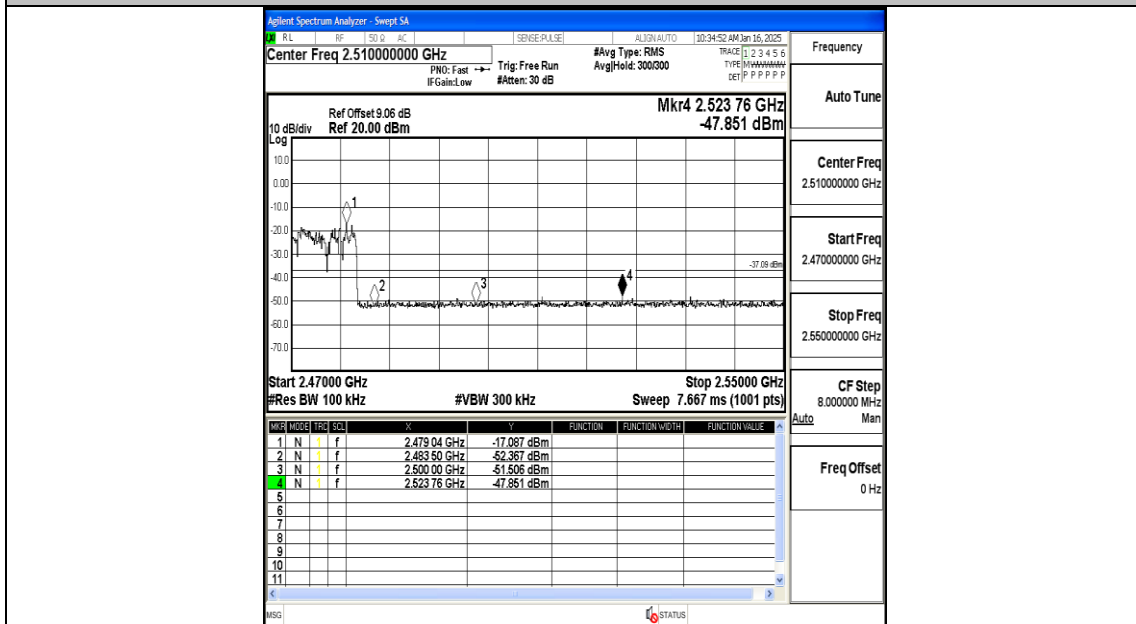
2DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



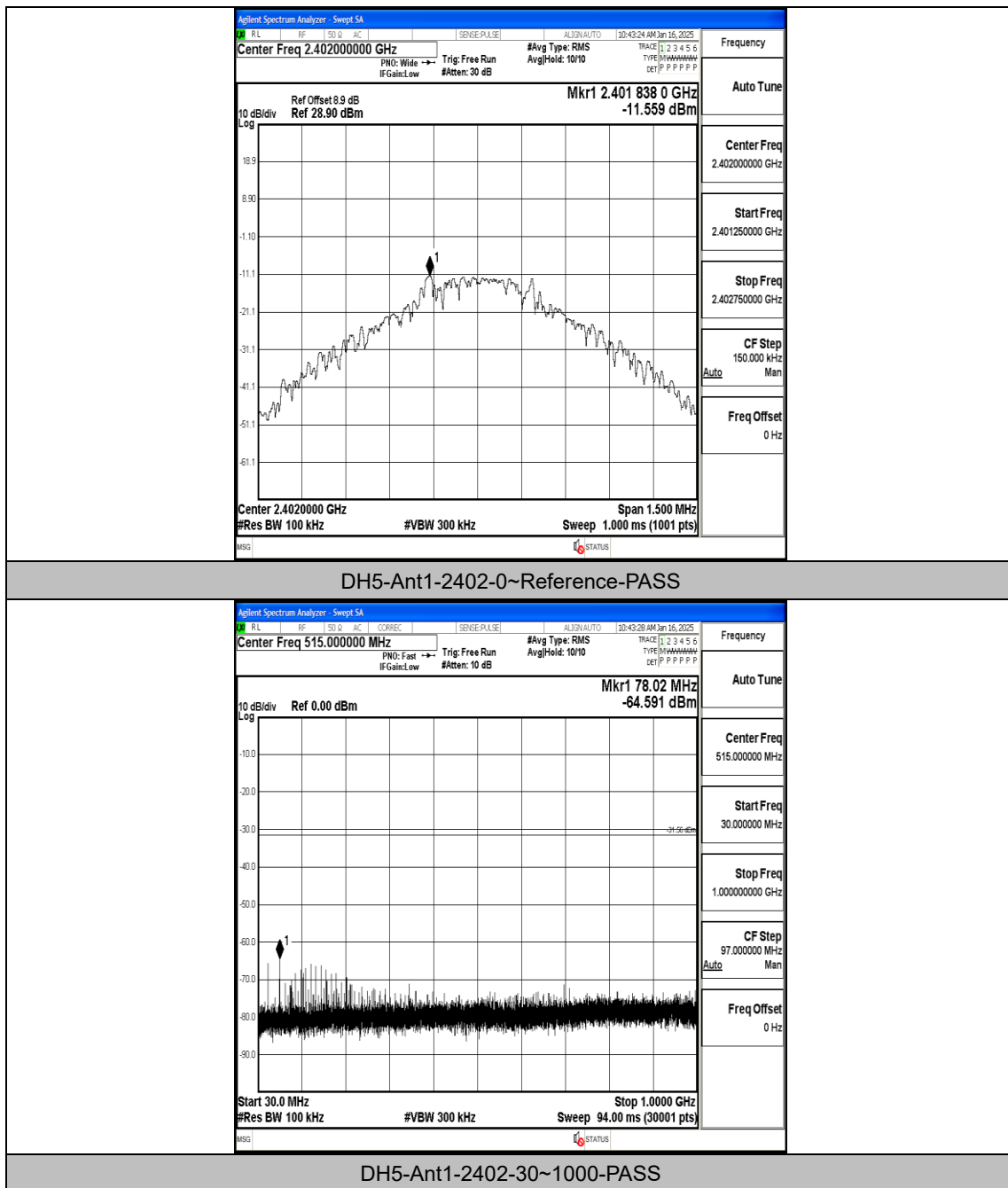
3DH5-Ant1-Hop_2480-PASS

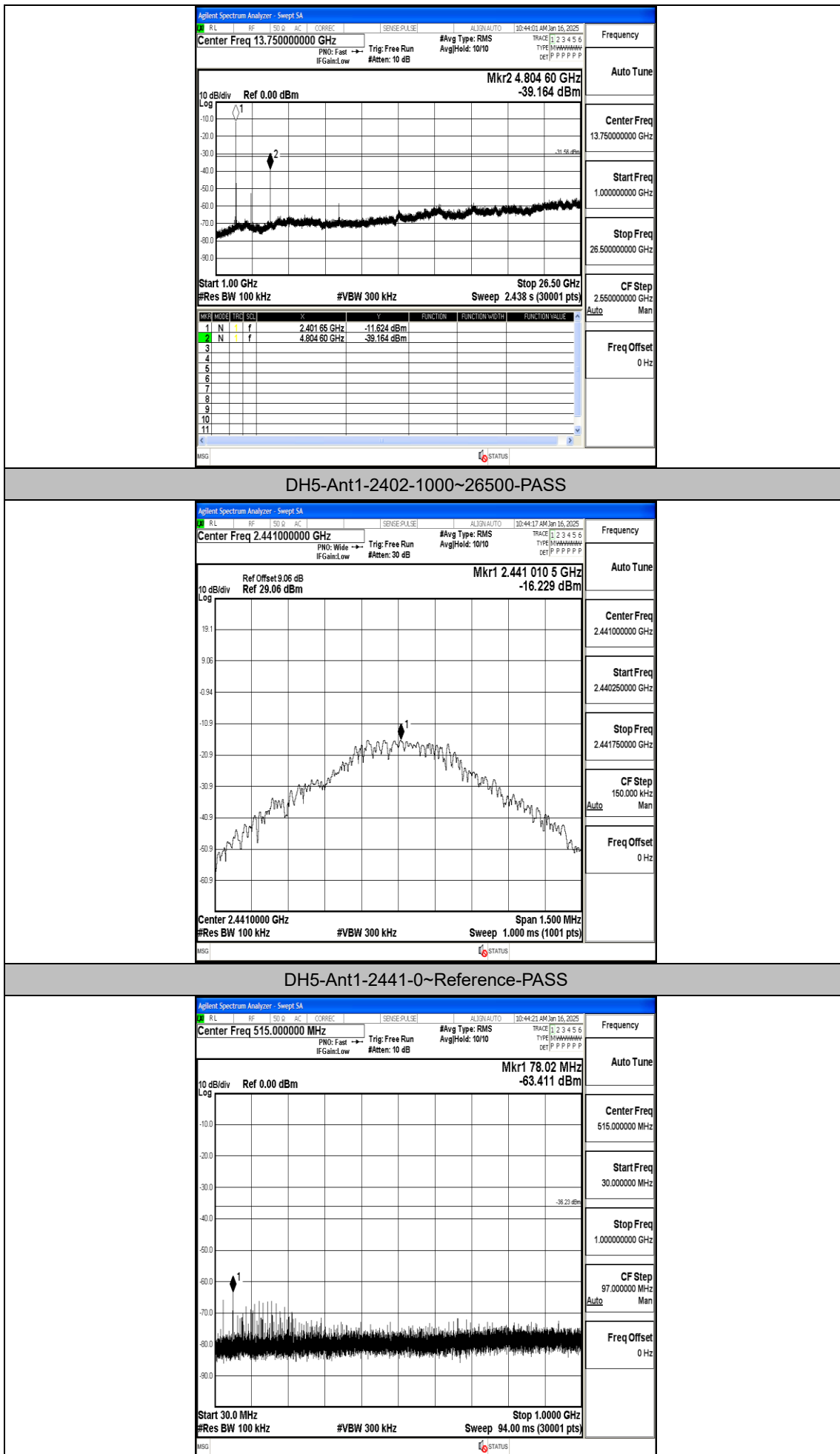
Appendix H: Conducted Spurious Emission

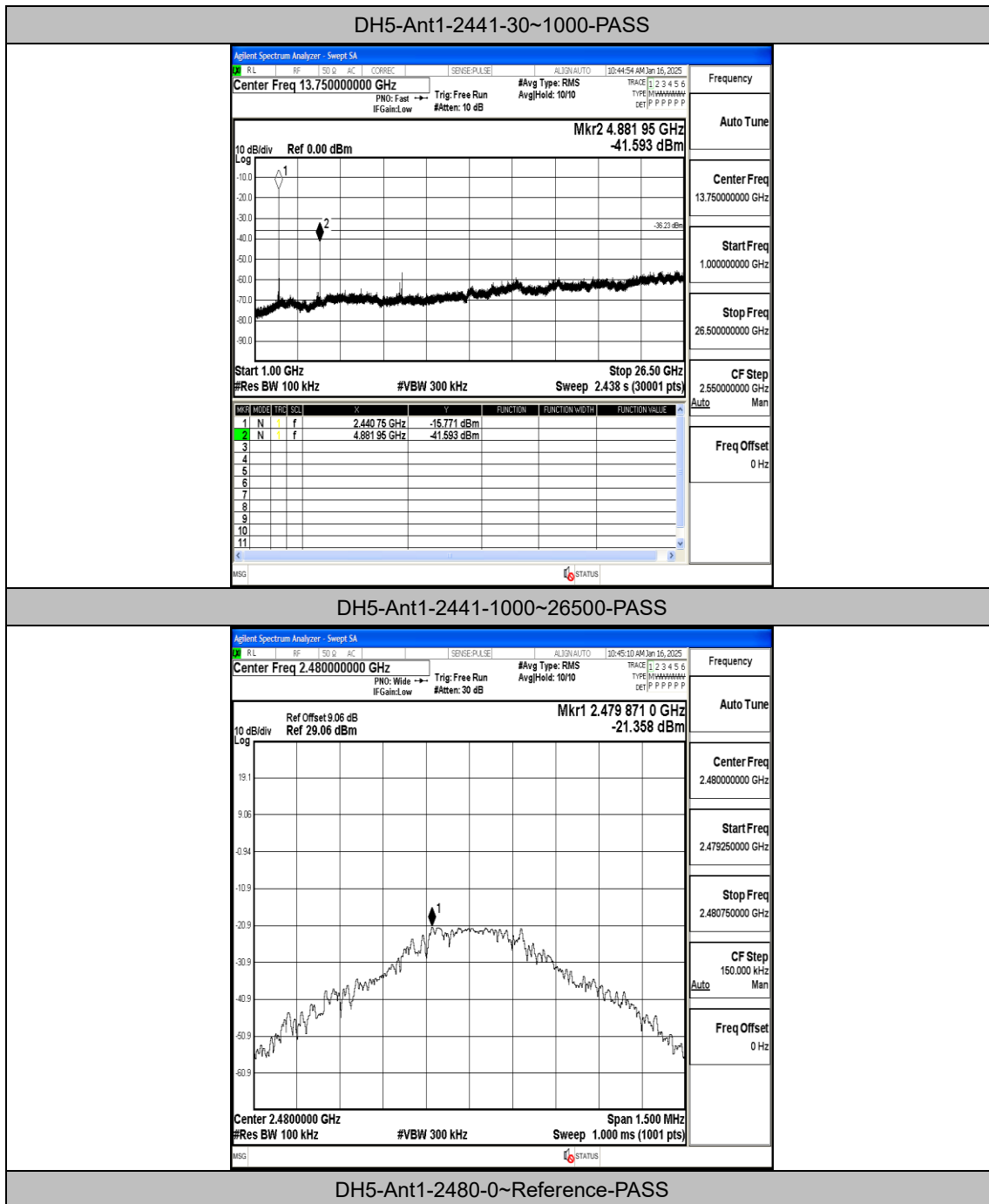
Test Result

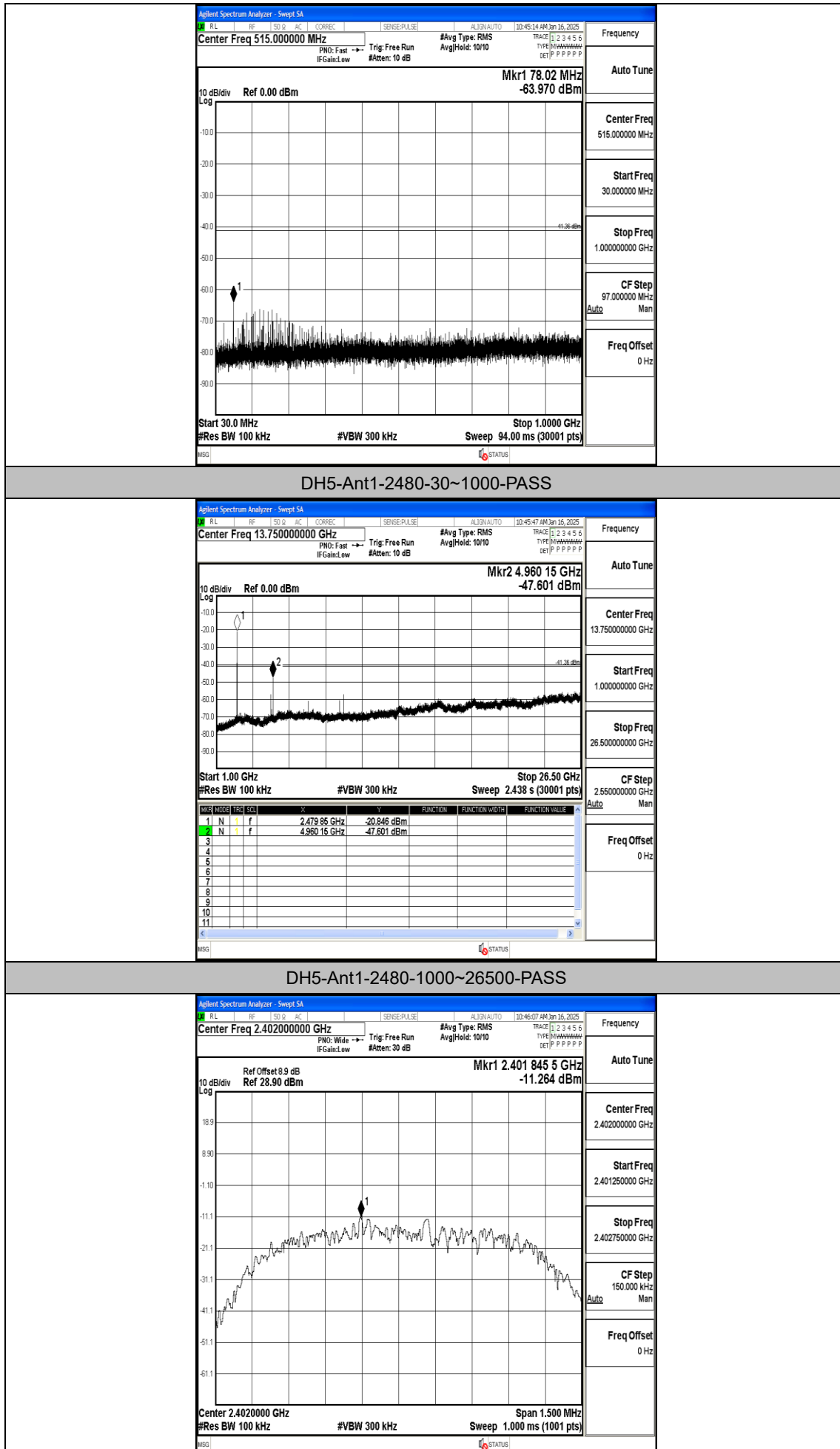
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-11.56	-11.56	---	PASS
DH5	Ant1	2402	30~1000	-11.56	-64.59	≤-31.56	PASS
DH5	Ant1	2402	1000~26500	-11.56	-39.16	≤-31.56	PASS
DH5	Ant1	2441	0~Reference	-16.23	-16.23	---	PASS
DH5	Ant1	2441	30~1000	-16.23	-63.41	≤-36.23	PASS
DH5	Ant1	2441	1000~26500	-16.23	-41.59	≤-36.23	PASS
DH5	Ant1	2480	0~Reference	-21.36	-21.36	---	PASS
DH5	Ant1	2480	30~1000	-21.36	-63.97	≤-41.36	PASS
DH5	Ant1	2480	1000~26500	-21.36	-47.6	≤-41.36	PASS
2DH5	Ant1	2402	0~Reference	-11.26	-11.26	---	PASS
2DH5	Ant1	2402	30~1000	-11.26	-64.5	≤-31.26	PASS
2DH5	Ant1	2402	1000~26500	-11.26	-40.64	≤-31.26	PASS
2DH5	Ant1	2441	0~Reference	-16.04	-16.04	---	PASS
2DH5	Ant1	2441	30~1000	-16.04	-64.39	≤-36.04	PASS
2DH5	Ant1	2441	1000~26500	-16.04	-42.12	≤-36.04	PASS
2DH5	Ant1	2480	0~Reference	-22.73	-22.73	---	PASS
2DH5	Ant1	2480	30~1000	-22.73	-65.56	≤-42.73	PASS
2DH5	Ant1	2480	1000~26500	-22.73	-50.71	≤-42.73	PASS
3DH5	Ant1	2402	0~Reference	-13.08	-13.08	---	PASS
3DH5	Ant1	2402	30~1000	-13.08	-64.56	≤-33.08	PASS
3DH5	Ant1	2402	1000~26500	-13.08	-40.93	≤-33.08	PASS
3DH5	Ant1	2441	0~Reference	-17.51	-17.51	---	PASS
3DH5	Ant1	2441	30~1000	-17.51	-64.14	≤-37.51	PASS
3DH5	Ant1	2441	1000~26500	-17.51	-42.97	≤-37.51	PASS
3DH5	Ant1	2480	0~Reference	-21.18	-21.18	---	PASS
3DH5	Ant1	2480	30~1000	-21.18	-64.87	≤-41.18	PASS
3DH5	Ant1	2480	1000~26500	-21.18	-48.64	≤-41.18	PASS

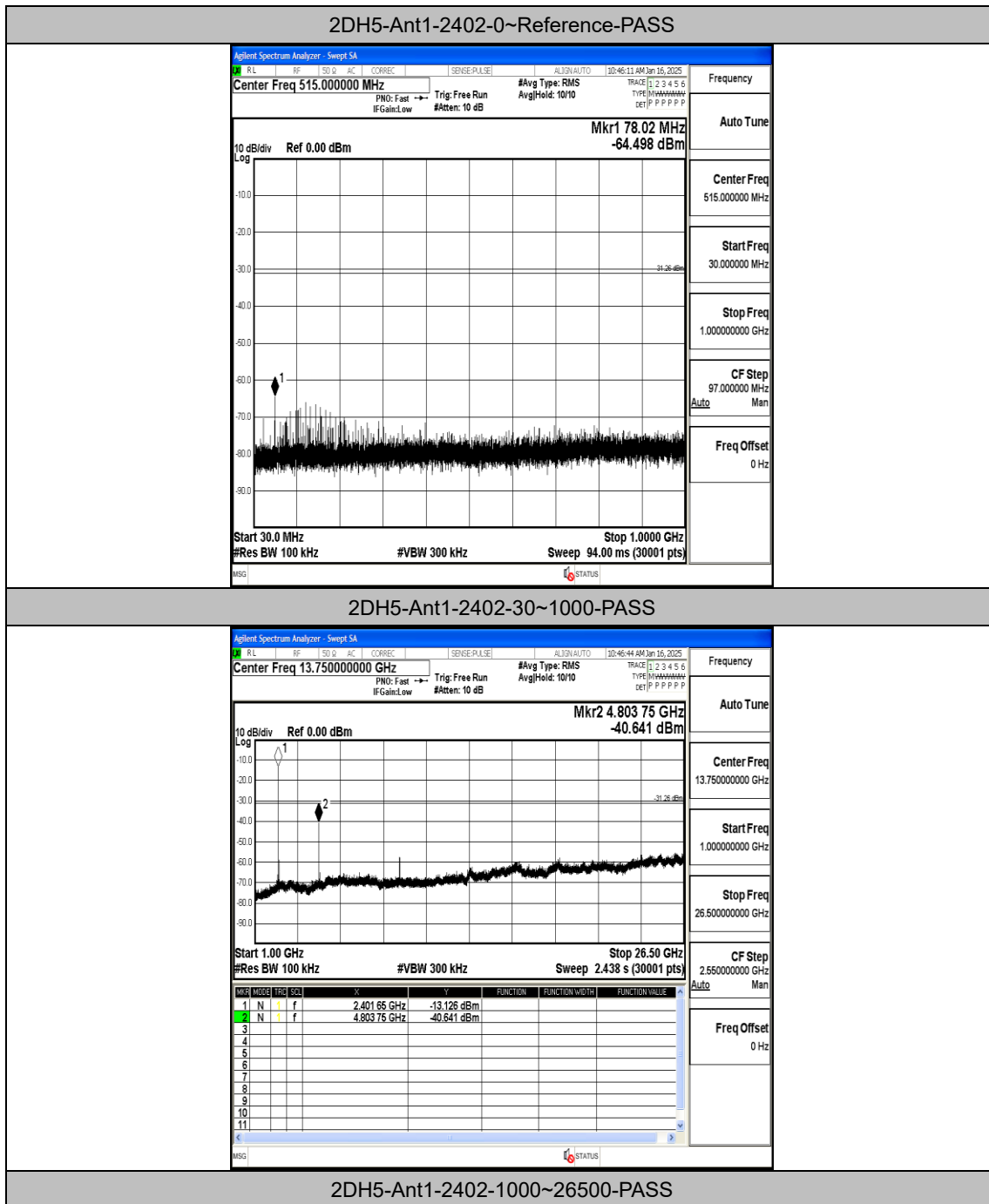
Test Graphs



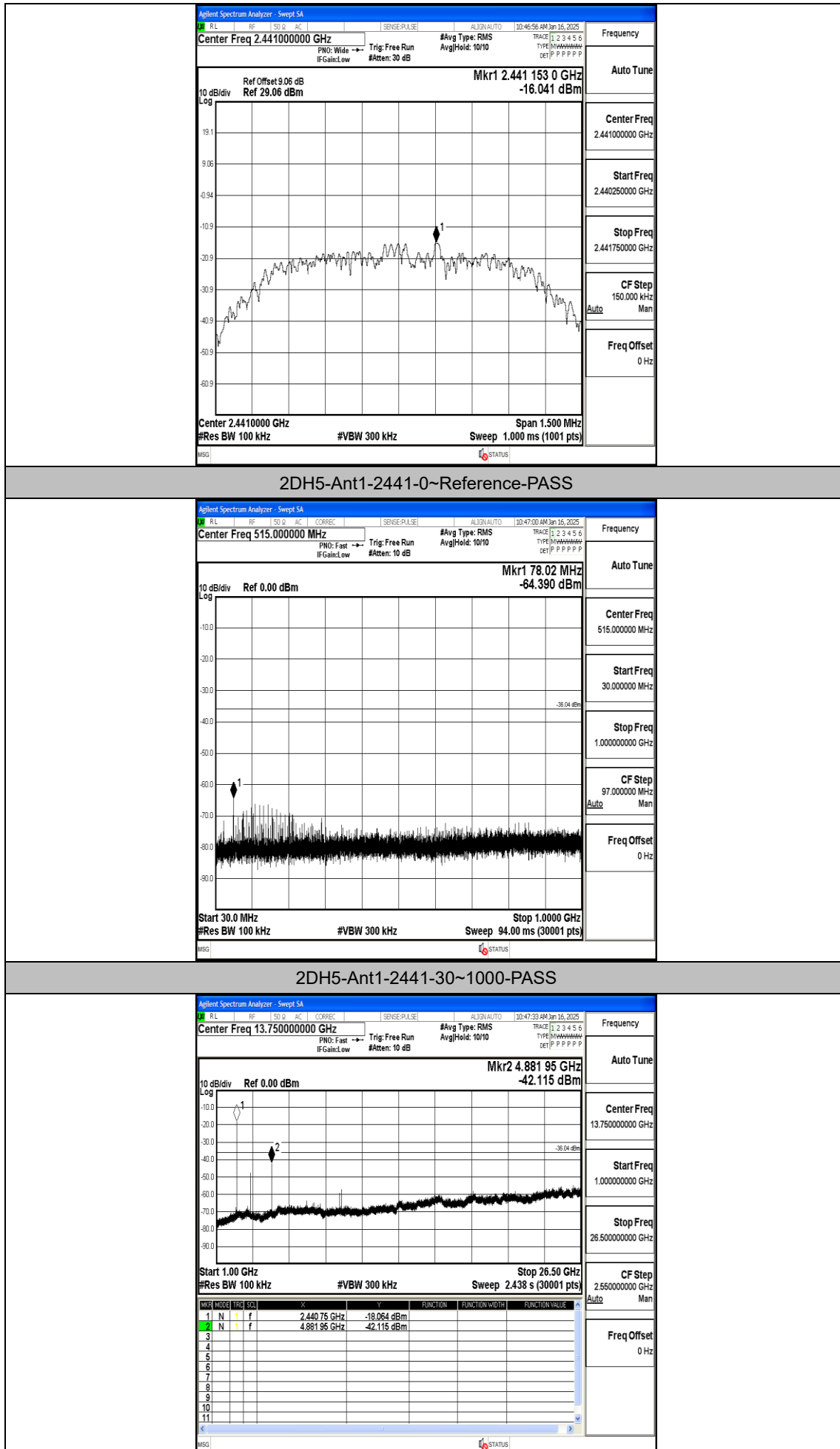


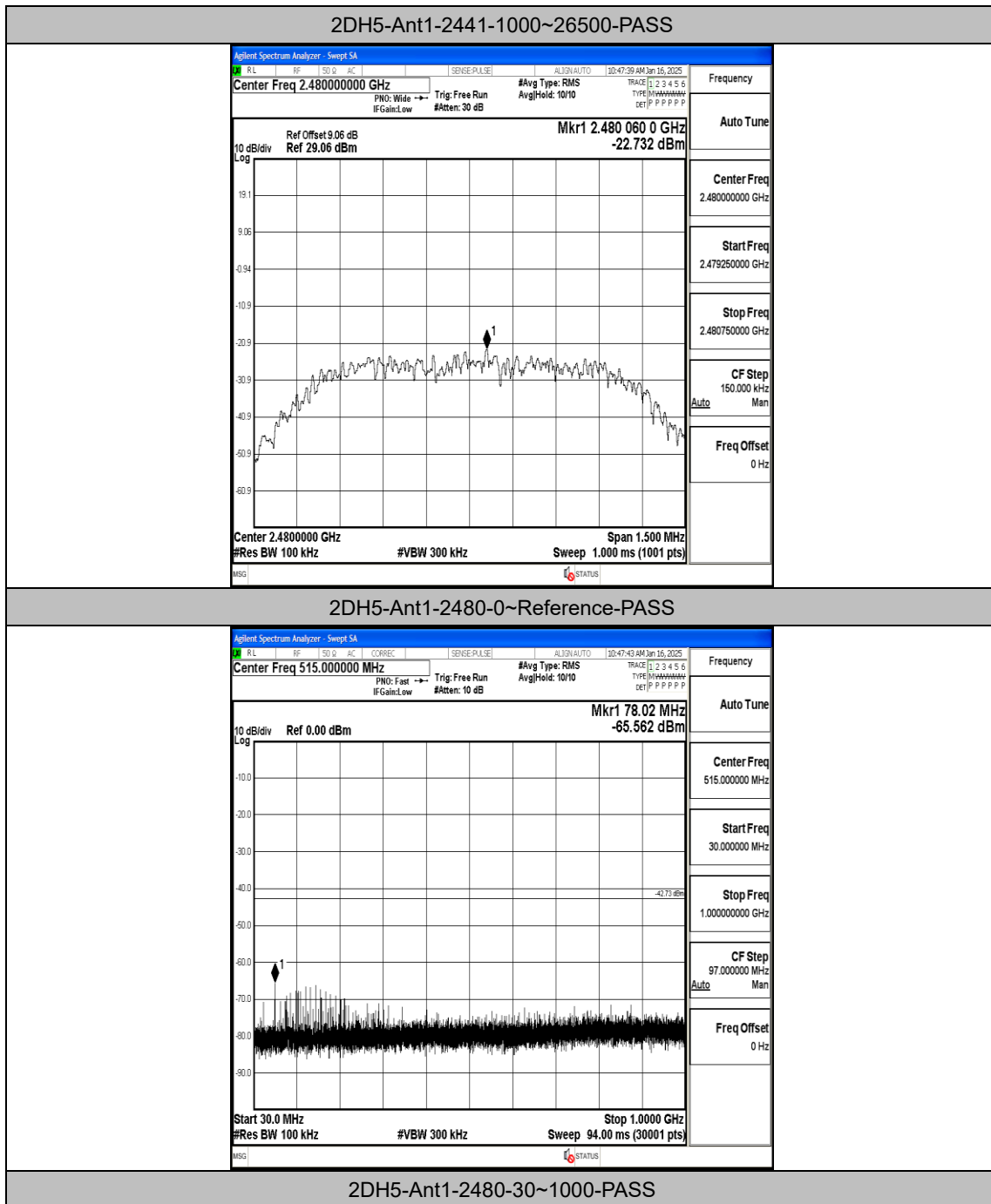


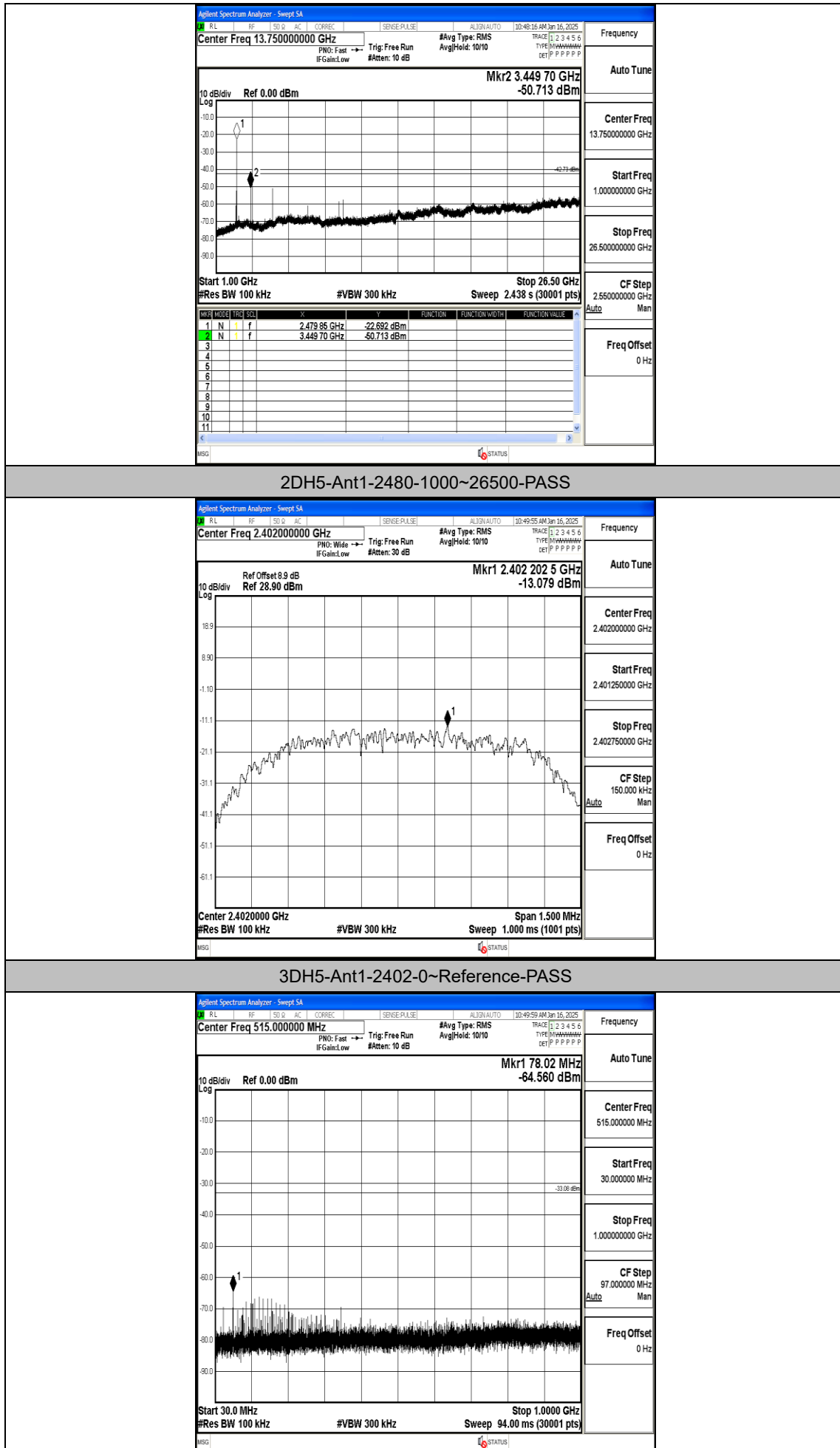


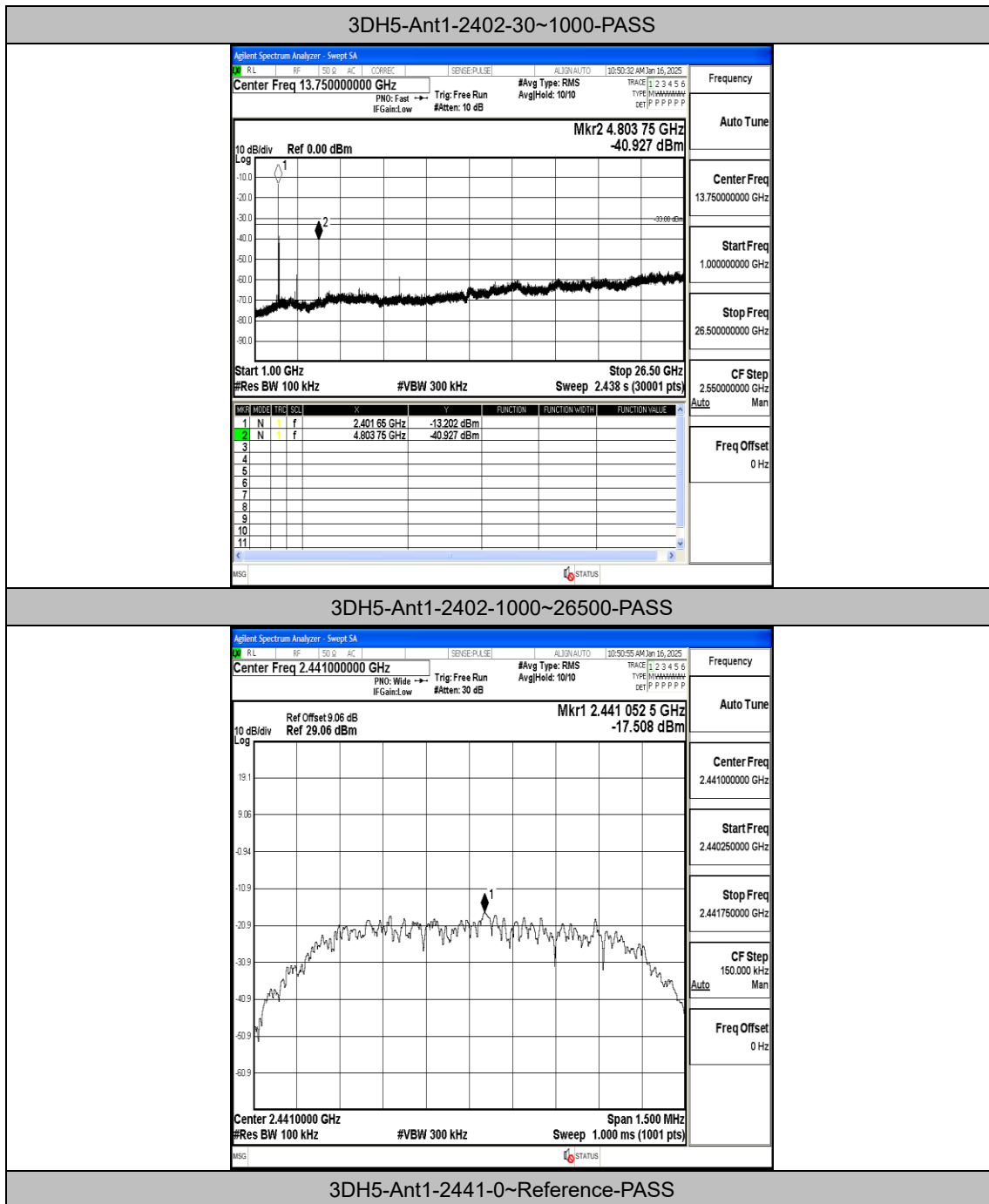


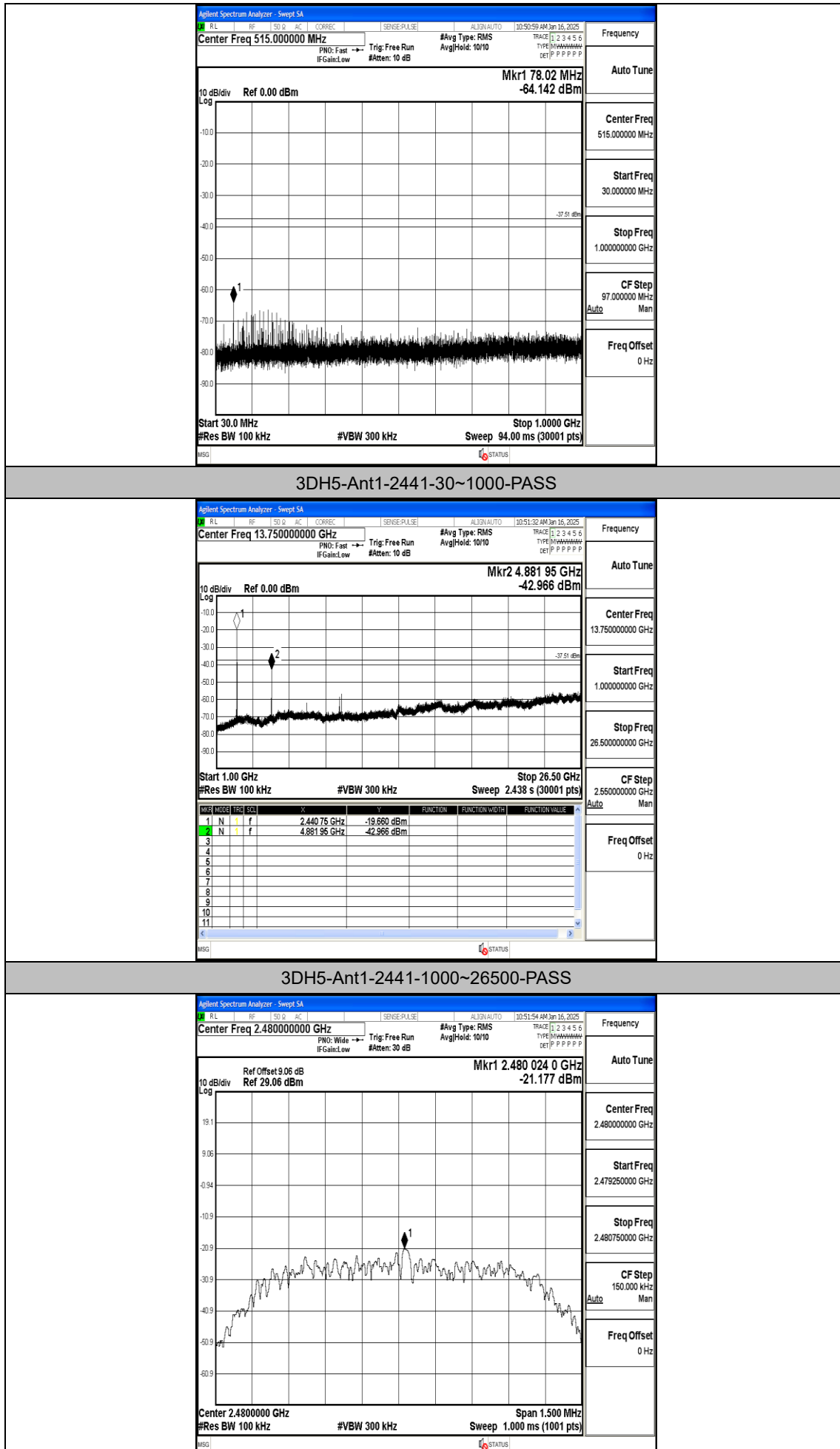
2DH5-Ant1-2402-1000~26500-PASS

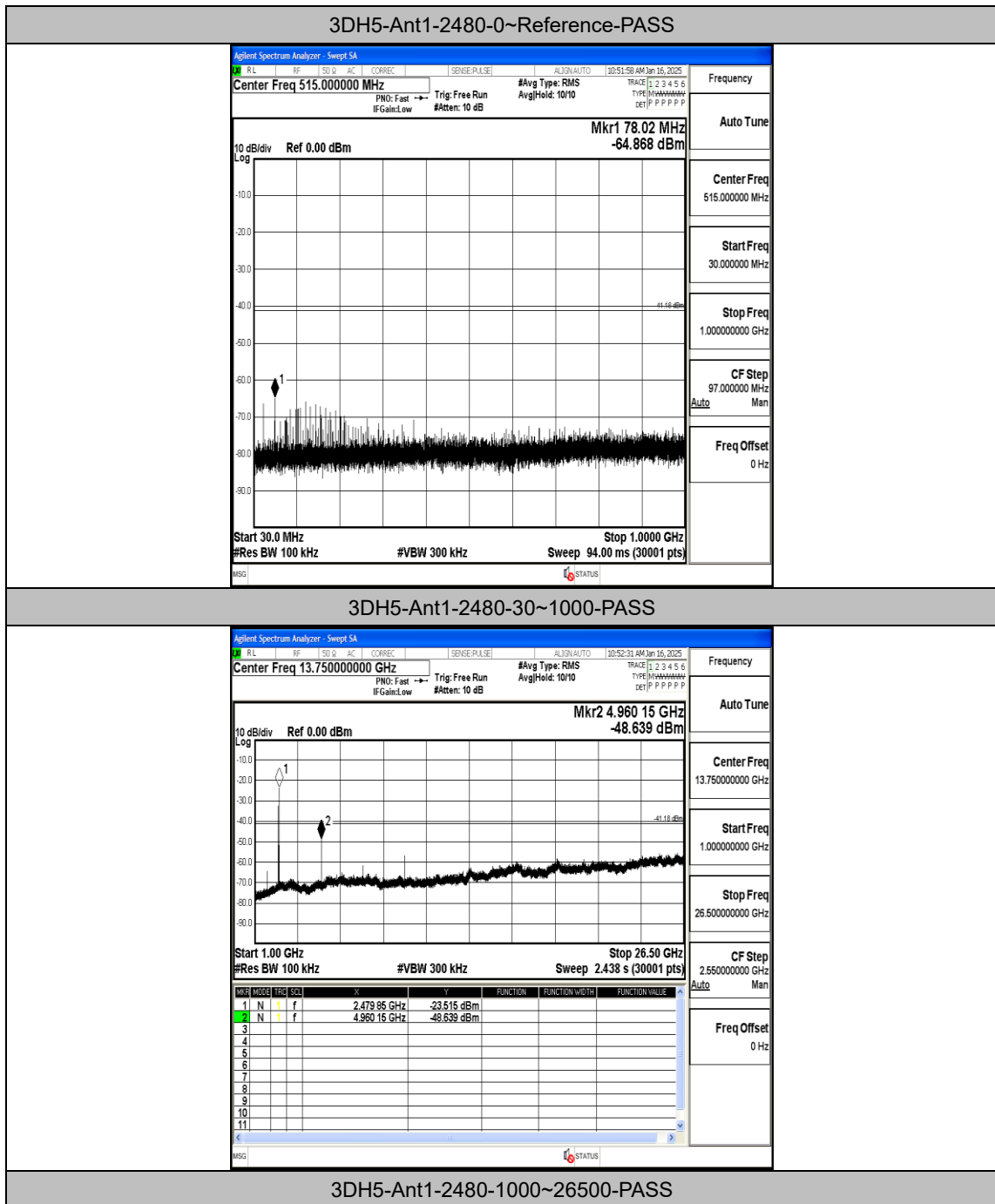












Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.90	3.76	77.13	1.13
2DH5	Ant1	2402	2.90	3.75	77.33	1.12
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.89	3.75	77.07	1.13
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
3DH5	Ant1	2441	2.89	3.75	77.07	1.13
3DH5	Ant1	2480	2.90	3.75	77.33	1.12

Test Graphs

