

Appendix for SRD

Product Name: WiFi 802.11ah HaLow Module

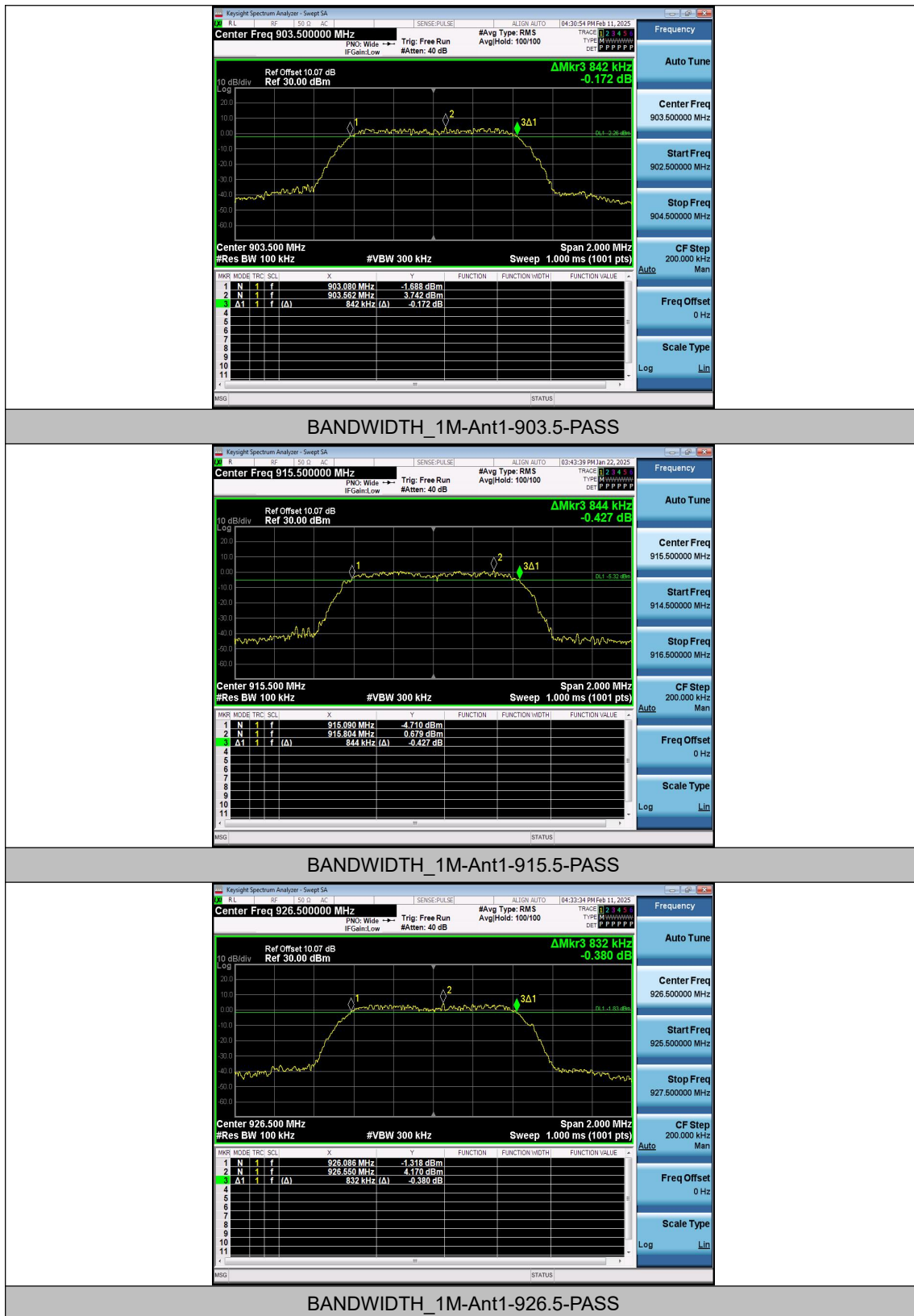
Model No: WAH MV1

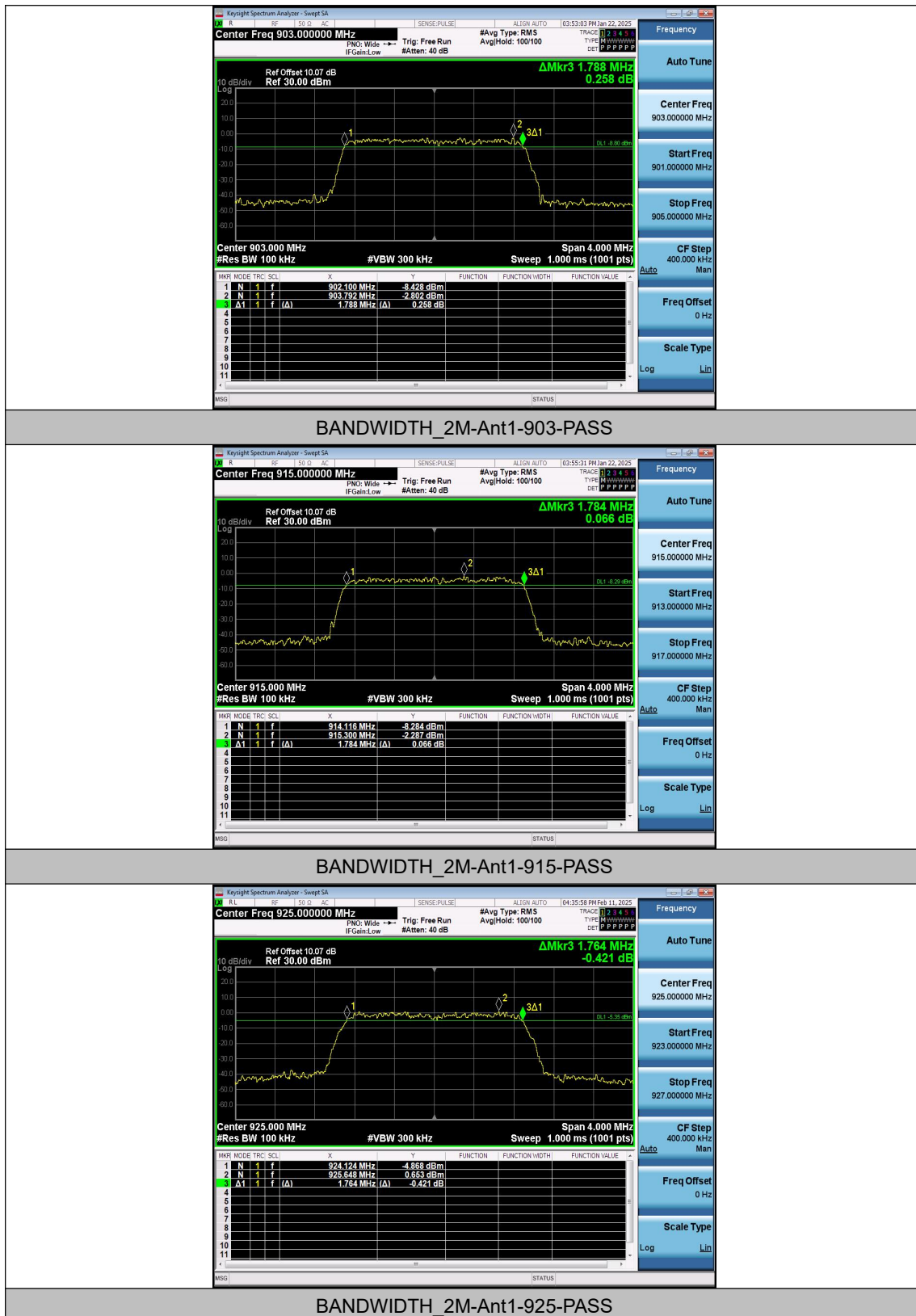
Appendix A: DTS Bandwidth

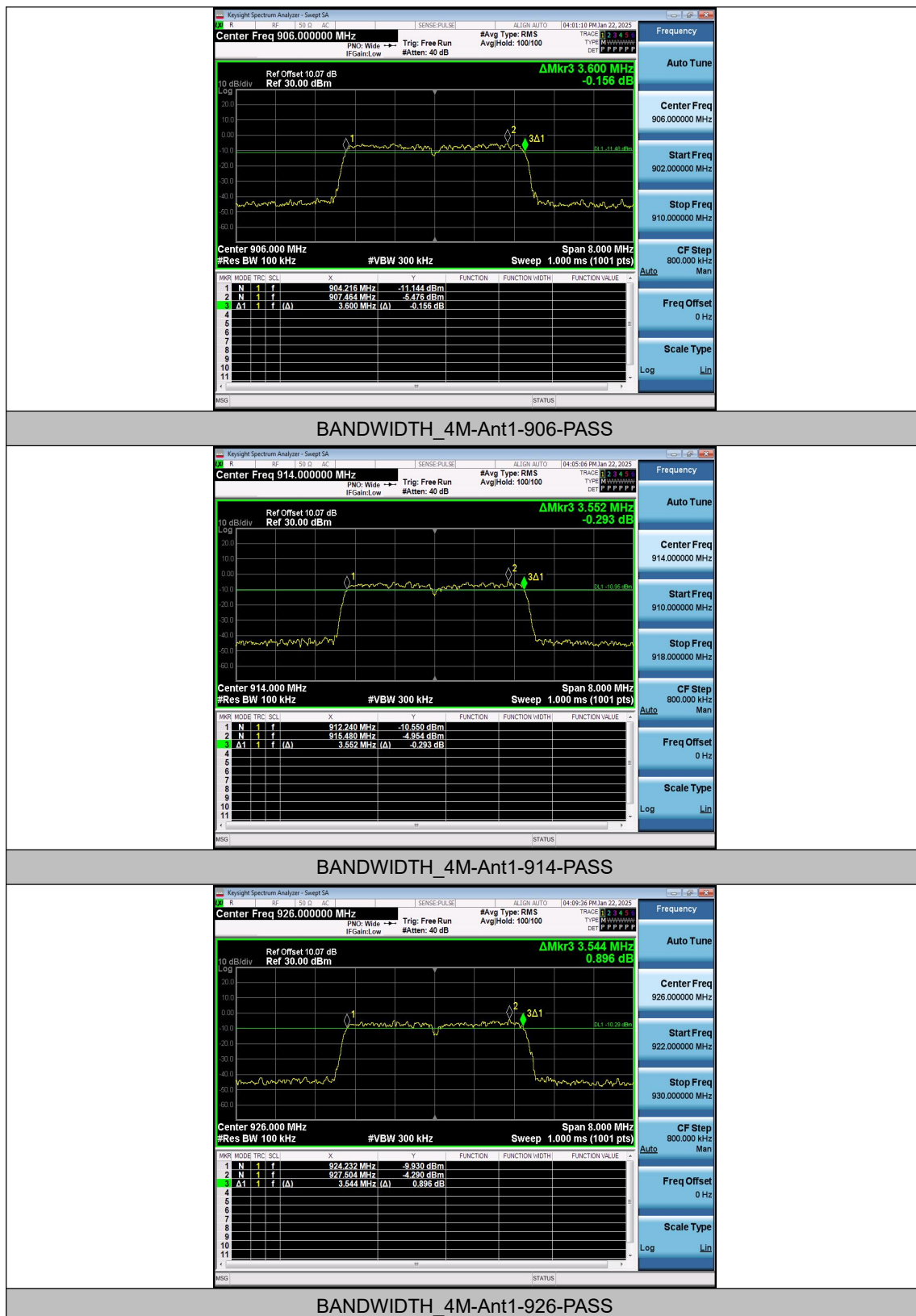
Test Result

TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BANDWIDTH_1M	Ant1	903.5	0.842	903.080	903.922	≥0.5	PASS
BANDWIDTH_1M	Ant1	915.5	0.844	915.090	915.934	≥0.5	PASS
BANDWIDTH_1M	Ant1	926.5	0.832	926.086	926.918	≥0.5	PASS
BANDWIDTH_2M	Ant1	903	1.788	902.100	903.888	≥0.5	PASS
BANDWIDTH_2M	Ant1	915	1.784	914.116	915.900	≥0.5	PASS
BANDWIDTH_2M	Ant1	925	1.764	924.124	925.888	≥0.5	PASS
BANDWIDTH_4M	Ant1	906	3.600	904.216	907.816	≥0.5	PASS
BANDWIDTH_4M	Ant1	914	3.552	912.240	915.792	≥0.5	PASS
BANDWIDTH_4M	Ant1	926	3.544	924.232	927.776	≥0.5	PASS

Test Graphs





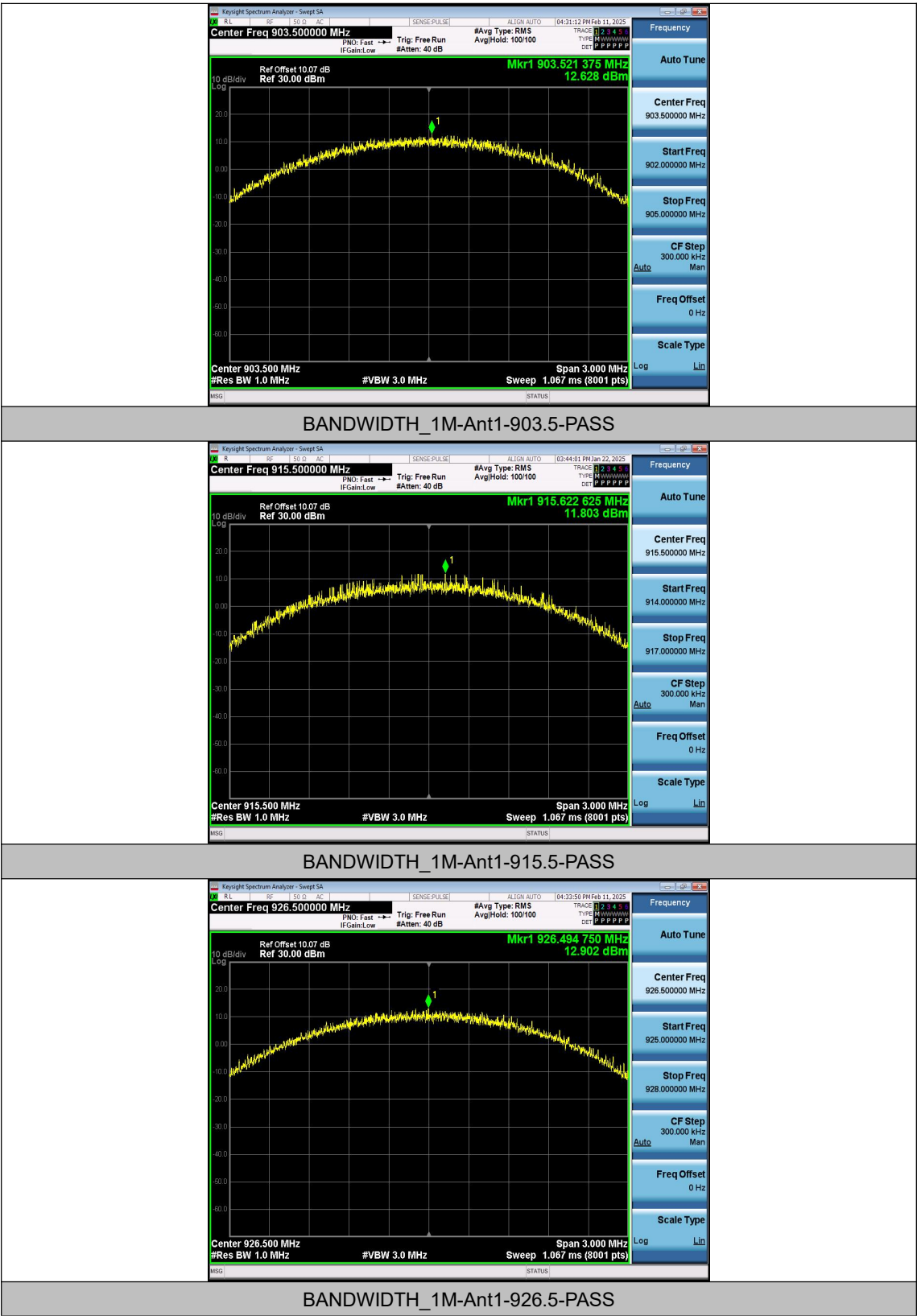


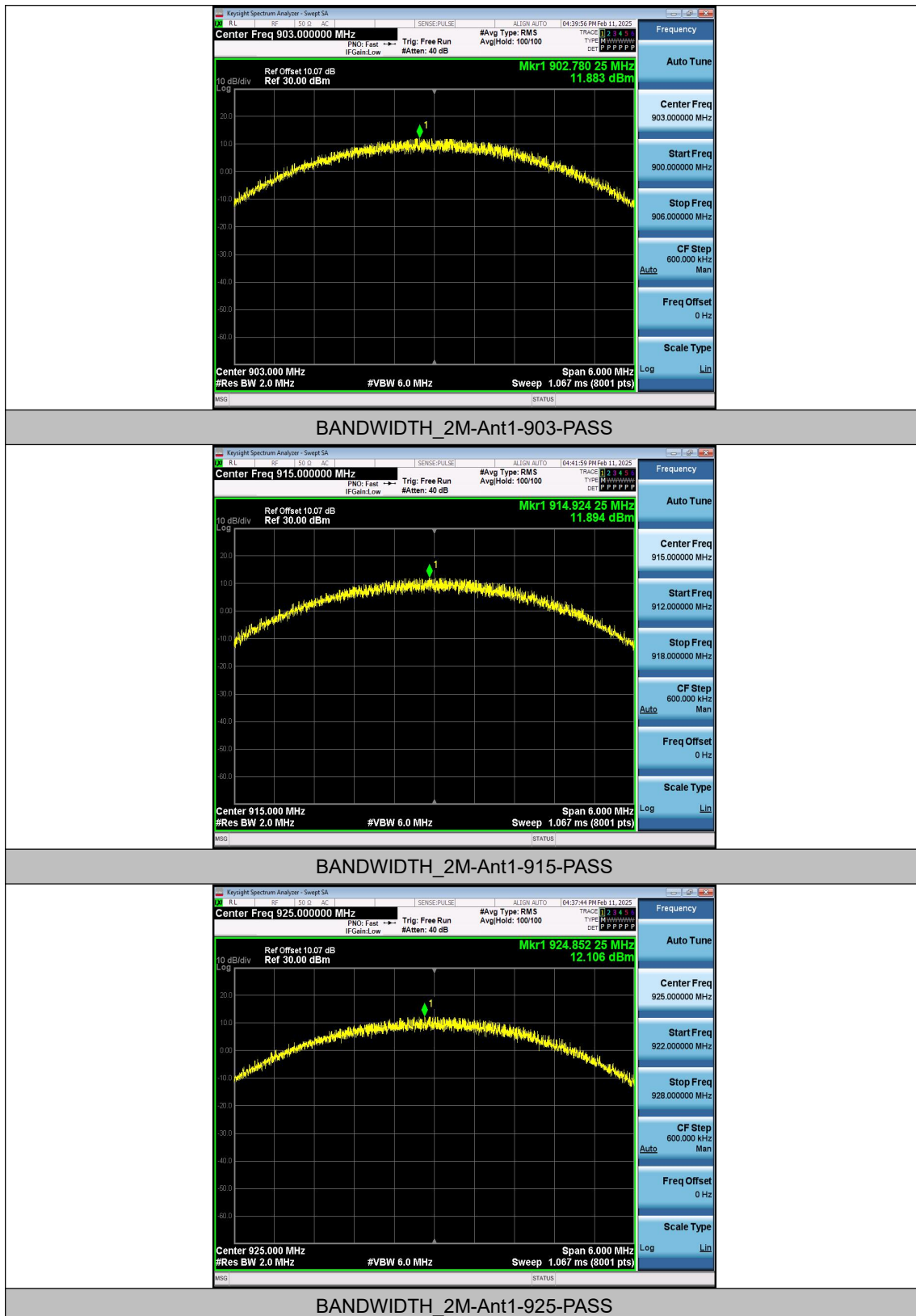
Appendix B: Maximum conducted output power

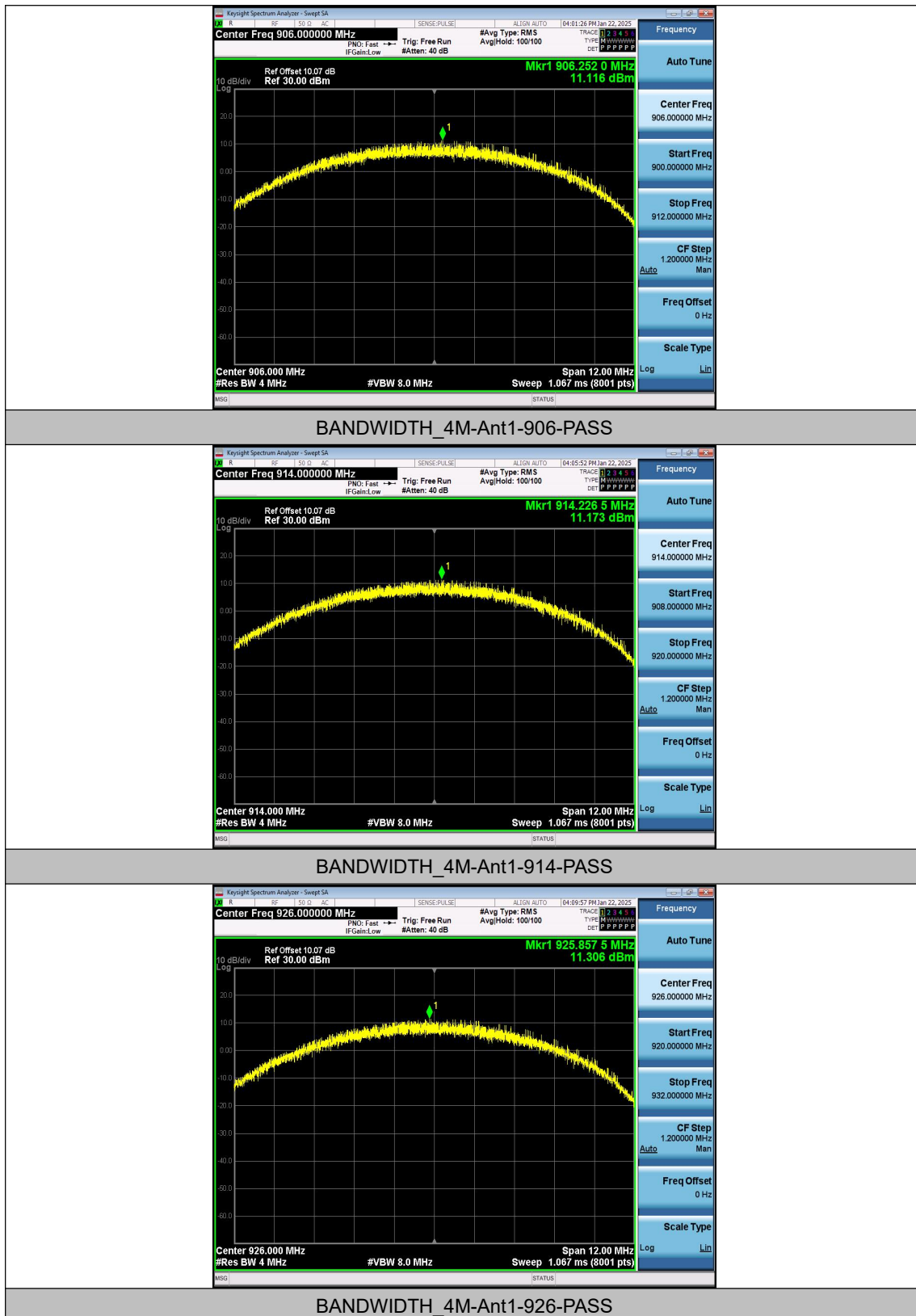
Test Result

TestMode	Antenna	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
BANDWIDTH_1M	Ant1	903.5	12.63	≤30	PASS
BANDWIDTH_1M	Ant1	915.5	11.80	≤30	PASS
BANDWIDTH_1M	Ant1	926.5	12.90	≤30	PASS
BANDWIDTH_2M	Ant1	903	11.88	≤30	PASS
BANDWIDTH_2M	Ant1	915	11.89	≤30	PASS
BANDWIDTH_2M	Ant1	925	12.11	≤30	PASS
BANDWIDTH_4M	Ant1	906	11.12	≤30	PASS
BANDWIDTH_4M	Ant1	914	11.17	≤30	PASS
BANDWIDTH_4M	Ant1	926	11.31	≤30	PASS

Test Graphs





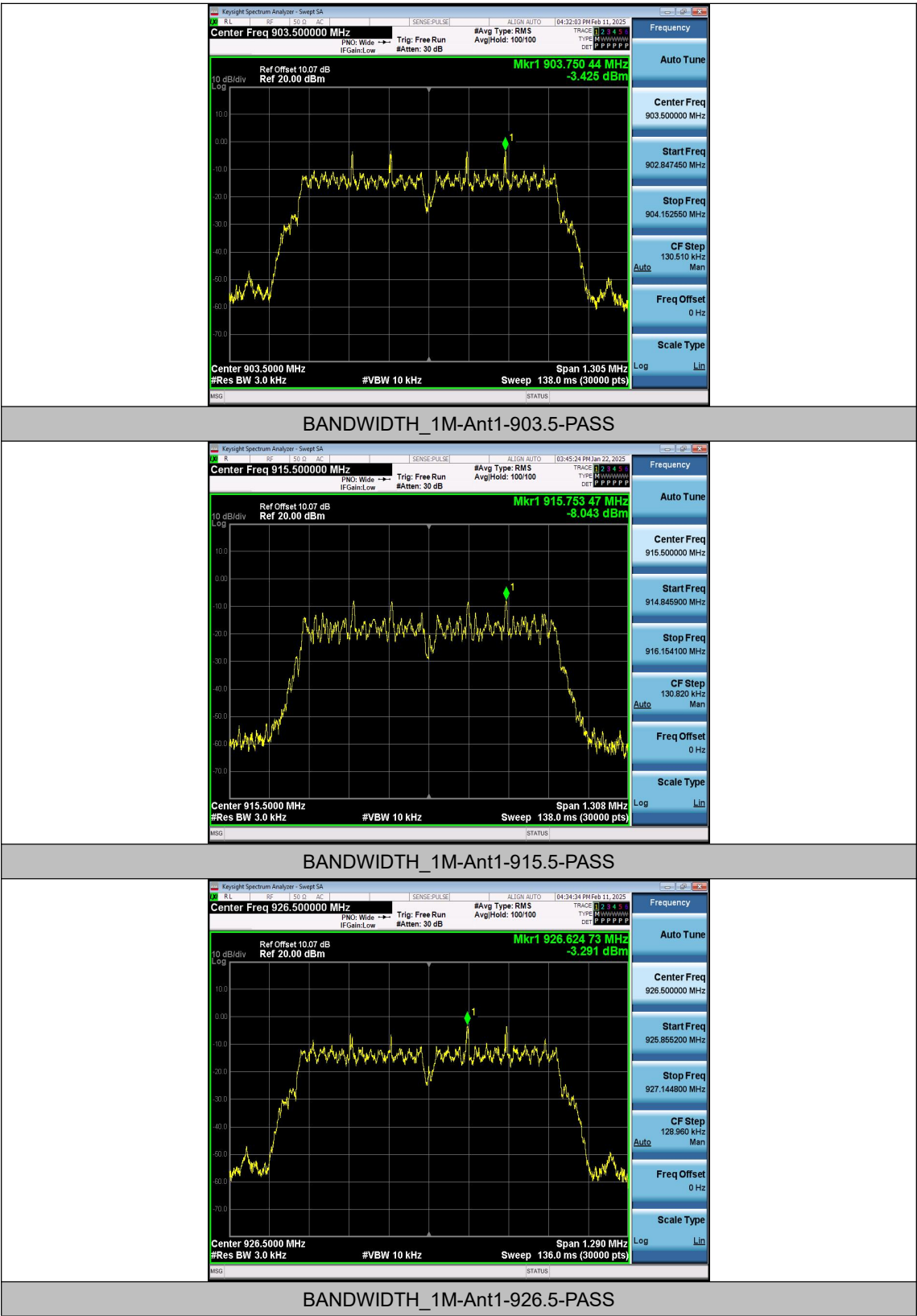


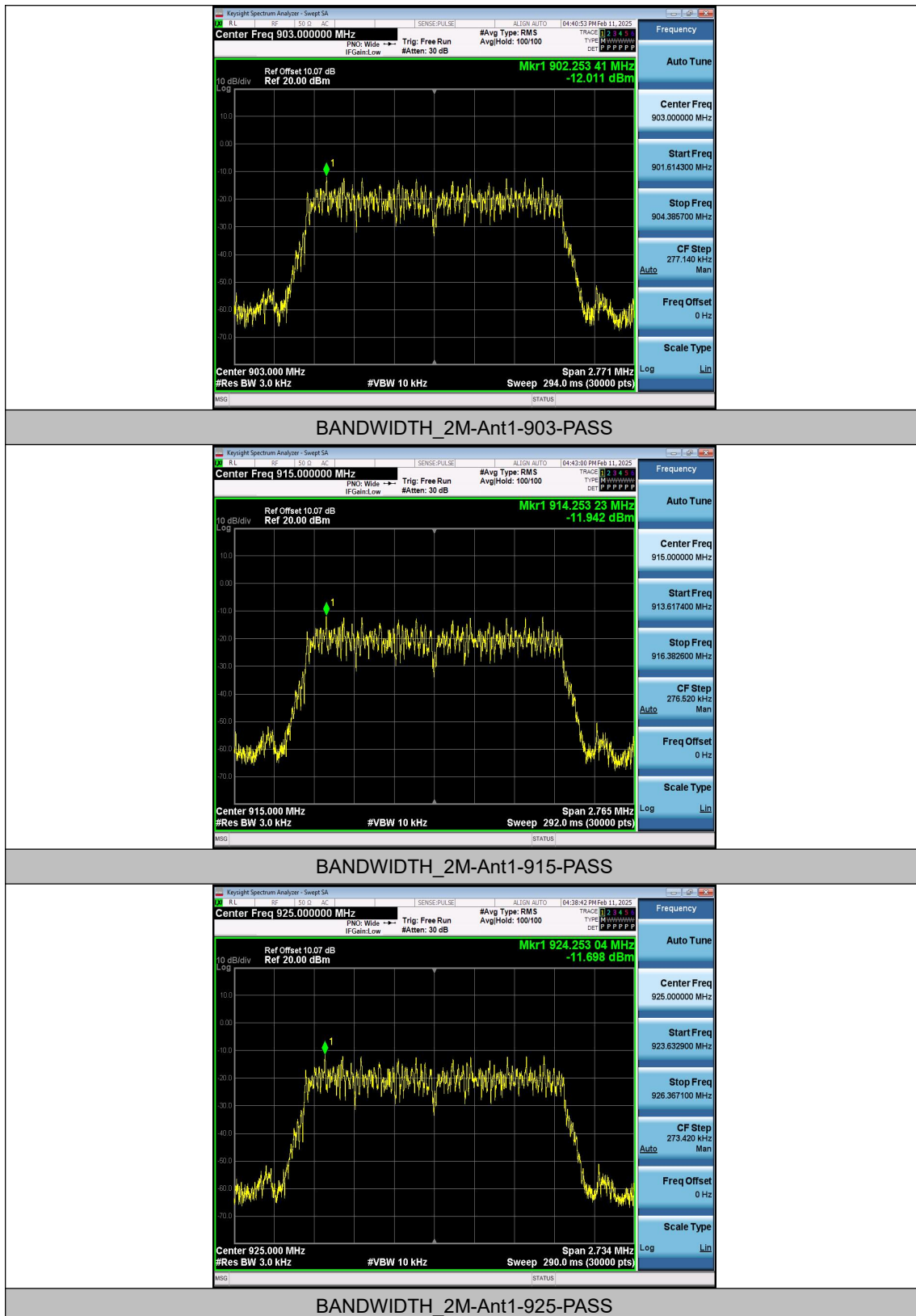
Appendix C: Maximum power spectral density

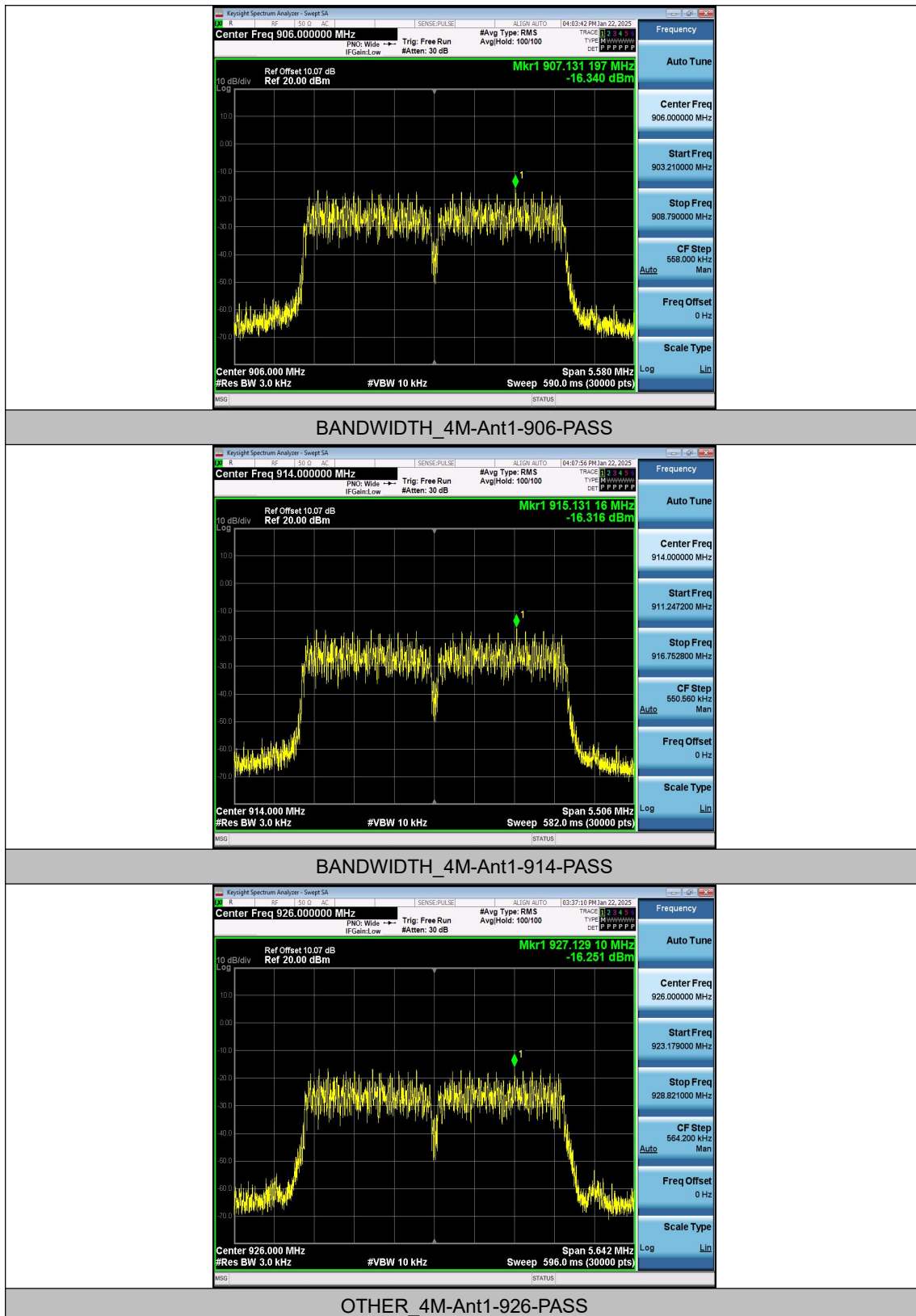
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BANDWIDTH_1M	Ant1	903.5	-3.43	≤8.00	PASS
BANDWIDTH_1M	Ant1	915.5	-8.04	≤8.00	PASS
BANDWIDTH_1M	Ant1	926.5	-3.29	≤8.00	PASS
BANDWIDTH_2M	Ant1	903	-12.01	≤8.00	PASS
BANDWIDTH_2M	Ant1	915	-11.94	≤8.00	PASS
BANDWIDTH_2M	Ant1	925	-11.70	≤8.00	PASS
BANDWIDTH_4M	Ant1	906	-16.34	≤8.00	PASS
BANDWIDTH_4M	Ant1	914	-16.32	≤8.00	PASS
BANDWIDTH_4M	Ant1	926	-16.25	≤8.00	PASS

Test Graphs





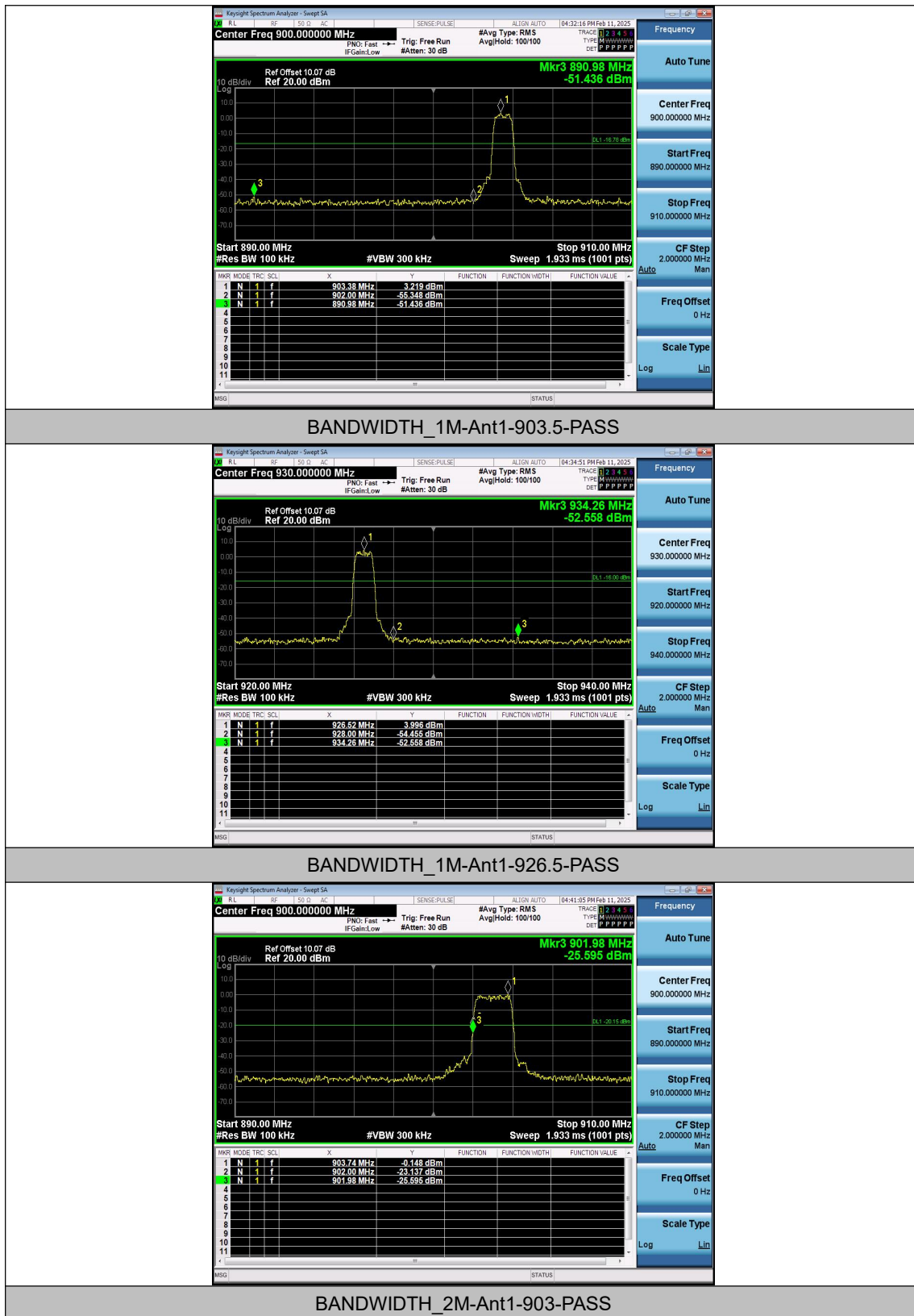


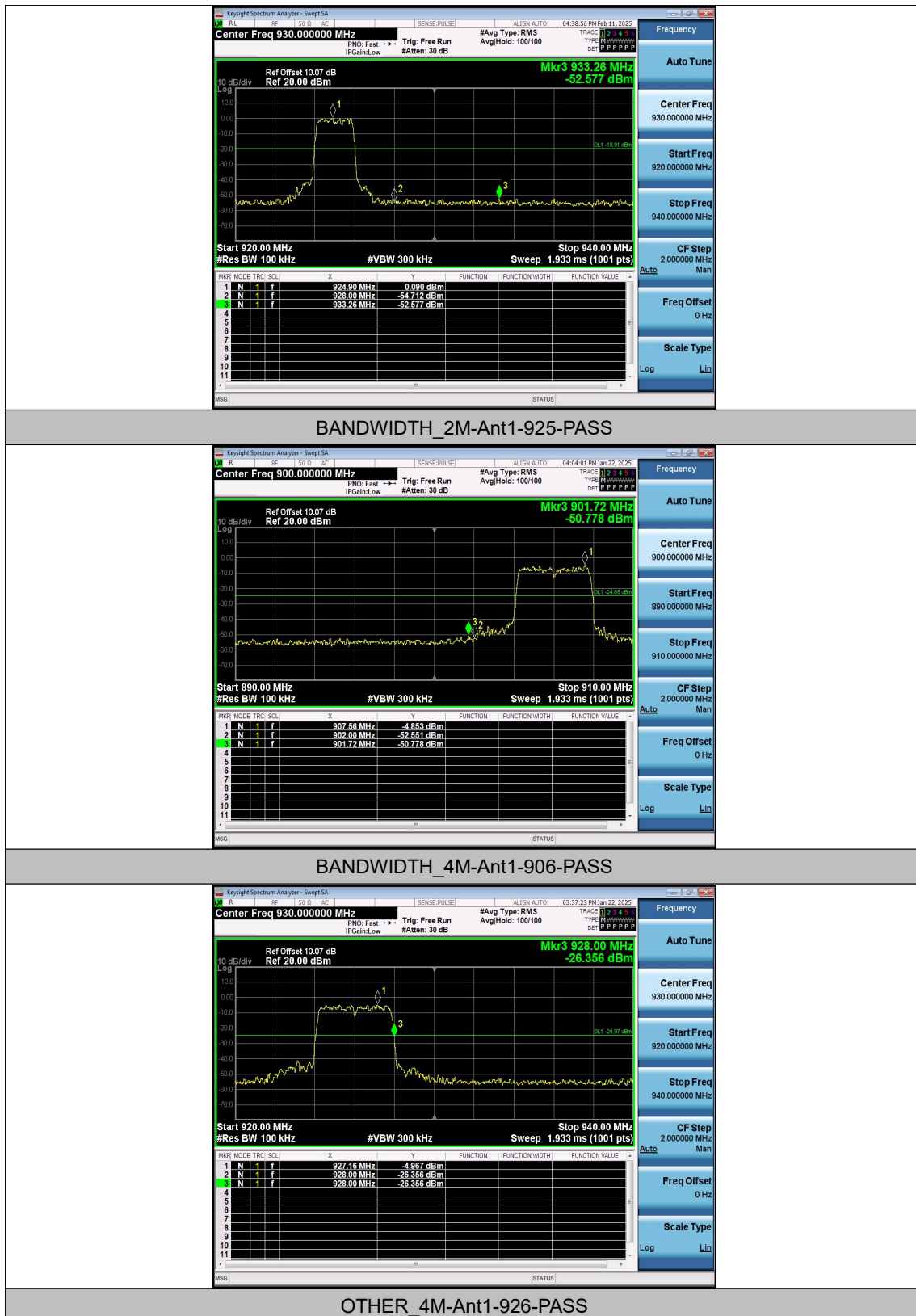
Appendix D: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit[dBm]	Verdict
BANDWIDTH_1M	Ant1	Low	903.5	3.22	-51.44	≤-16.78	PASS
BANDWIDTH_1M	Ant1	High	926.5	4.00	-52.56	≤-16	PASS
BANDWIDTH_2M	Ant1	Low	903	-0.15	-23.14	≤-20.15	PASS
BANDWIDTH_2M	Ant1	High	925	0.09	-52.58	≤-19.91	PASS
BANDWIDTH_4M	Ant1	Low	906	-4.85	-50.78	≤-24.85	PASS
BANDWIDTH_4M	Ant1	High	926	-4.97	-26.36	≤-24.97	PASS

Test Graphs





Appendix E: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BANDWIDTH_1M	Ant1	903.5	30~1000	3.37	-60.15	≤-16.63	PASS
BANDWIDTH_1M	Ant1	903.5	1000~26500	3.37	-45.84	≤-16.63	PASS
BANDWIDTH_1M	Ant1	915.5	30~1000	0.35	-61.29	≤-19.65	PASS
BANDWIDTH_1M	Ant1	915.5	1000~26500	0.35	-46.08	≤-19.65	PASS
BANDWIDTH_1M	Ant1	926.5	30~1000	3.39	-60.34	≤-16.61	PASS
BANDWIDTH_1M	Ant1	926.5	1000~26500	3.39	-46.3	≤-16.61	PASS
BANDWIDTH_2M	Ant1	903	30~1000	-0.40	-59.49	≤-20.4	PASS
BANDWIDTH_2M	Ant1	903	1000~26500	-0.40	-45.86	≤-20.4	PASS
BANDWIDTH_2M	Ant1	915	30~1000	-0.16	-60.88	≤-20.16	PASS
BANDWIDTH_2M	Ant1	915	1000~26500	-0.16	-46.42	≤-20.16	PASS
BANDWIDTH_2M	Ant1	925	30~1000	-0.08	-60.24	≤-20.08	PASS
BANDWIDTH_2M	Ant1	925	1000~26500	-0.08	-46.31	≤-20.08	PASS
BANDWIDTH_4M	Ant1	906	30~1000	-4.68	-60.53	≤-24.68	PASS
BANDWIDTH_4M	Ant1	906	1000~26500	-4.68	-45	≤-24.68	PASS
BANDWIDTH_4M	Ant1	914	30~1000	-4.73	-60.8	≤-24.73	PASS
BANDWIDTH_4M	Ant1	914	1000~26500	-4.73	-46.32	≤-24.73	PASS
BANDWIDTH_4M	Ant1	926	30~1000	-4.41	-61.18	≤-24.41	PASS
BANDWIDTH_4M	Ant1	926	1000~26500	-4.41	-44.96	≤-24.41	PASS

Test Graphs

