

Appendix: Bluetooth LE

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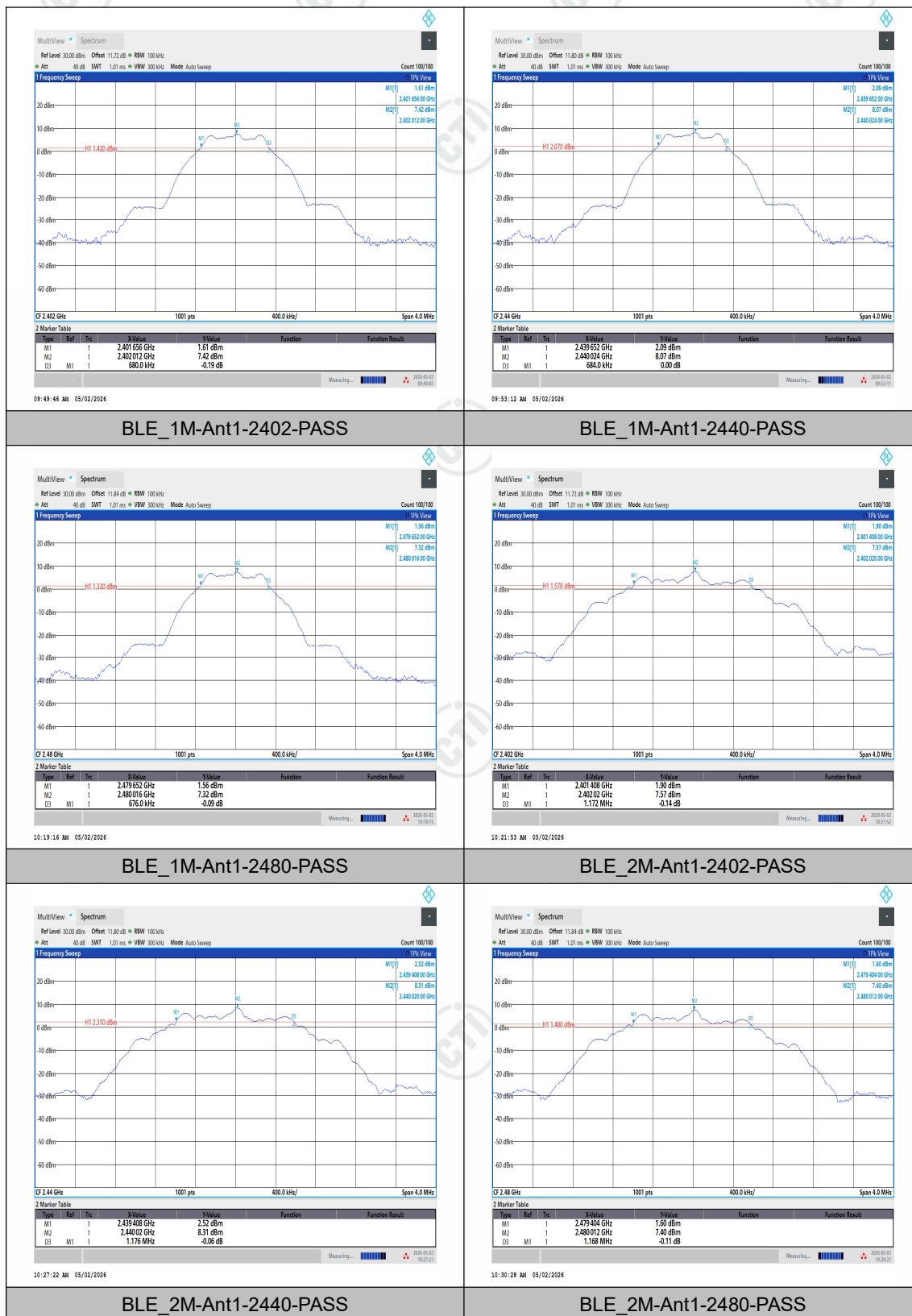
 Test Result 17

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	2401.66	2402.34	0.5	PASS
BLE_1M	Ant1	2440	0.68	2439.65	2440.34	0.5	PASS
BLE_1M	Ant1	2480	0.68	2479.65	2480.33	0.5	PASS
BLE_2M	Ant1	2402	1.17	2401.41	2402.58	0.5	PASS
BLE_2M	Ant1	2440	1.18	2439.41	2440.58	0.5	PASS
BLE_2M	Ant1	2480	1.17	2479.40	2480.57	0.5	PASS

Test Graphs

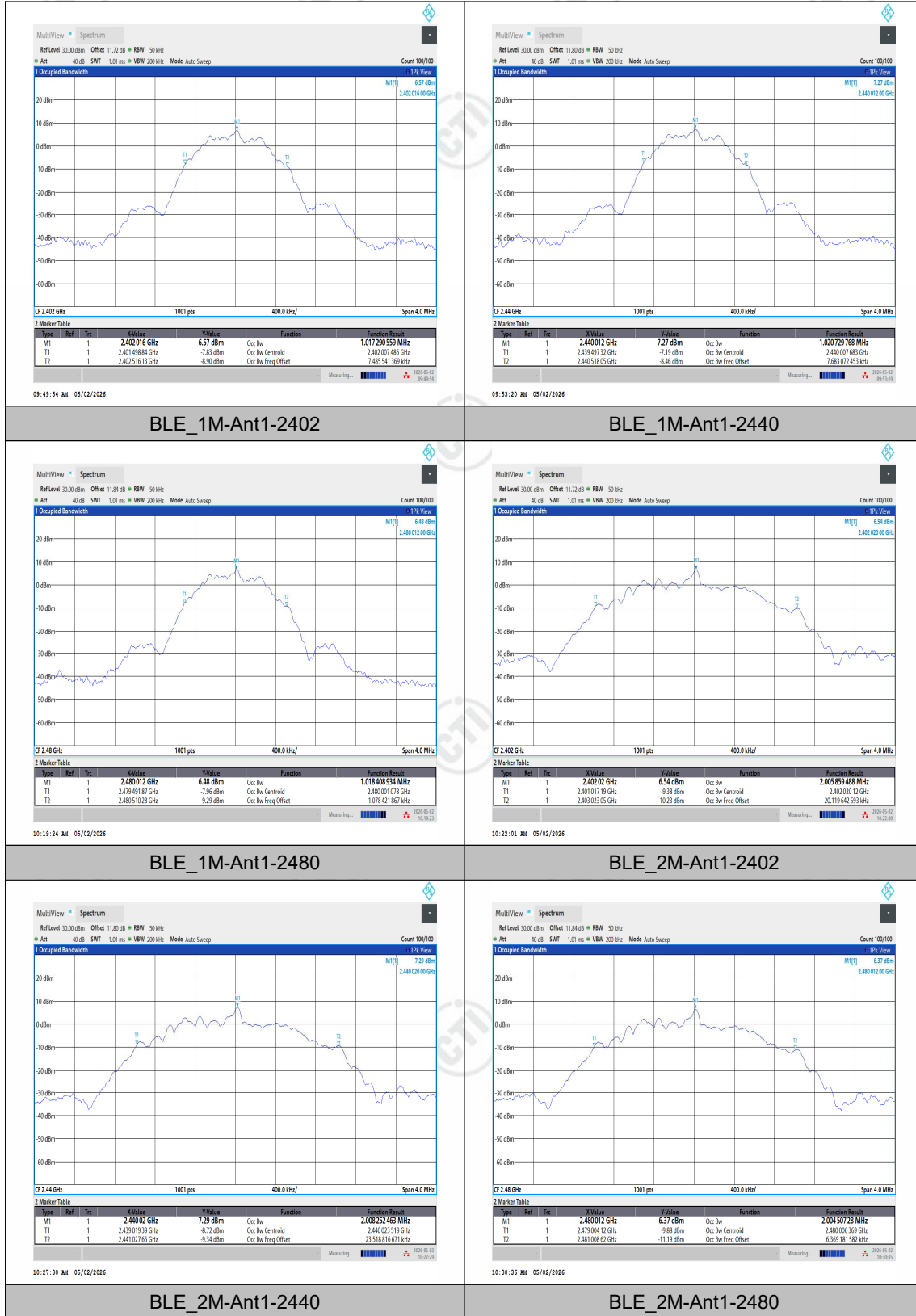


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0173	2401.4988	2402.5161	---	---
BLE_1M	Ant1	2440	1.0207	2439.4973	2440.5180	---	---
BLE_1M	Ant1	2480	1.0184	2479.4919	2480.5103	---	---
BLE_2M	Ant1	2402	2.0059	2401.0172	2403.0230	---	---
BLE_2M	Ant1	2440	2.0083	2439.0194	2441.0276	---	---
BLE_2M	Ant1	2480	2.0045	2479.0041	2481.0086	---	---

Test Graphs

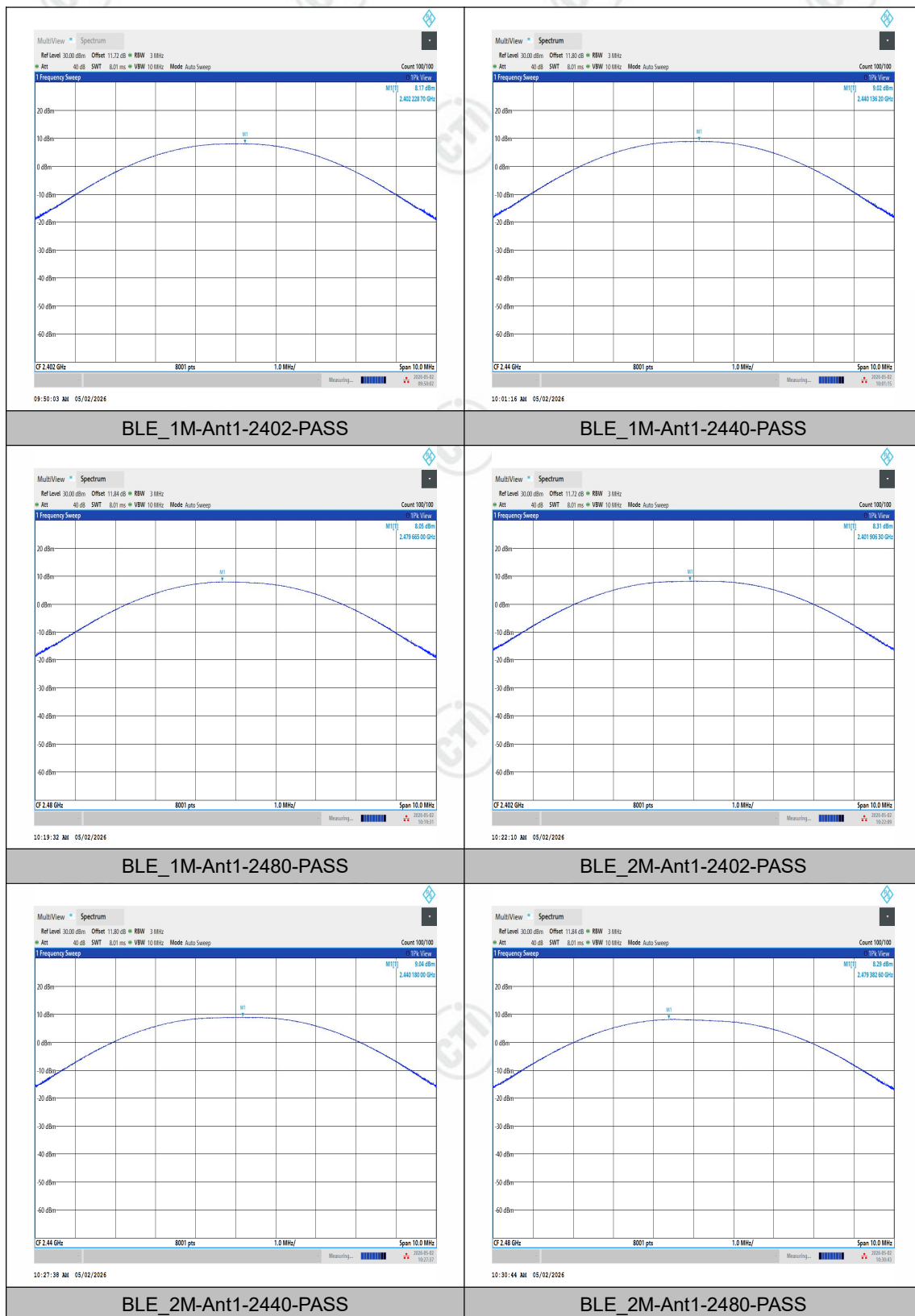


Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	8.17	≤30	2.95	≤36	PASS
BLE_1M	Ant1	2440	9.02	≤30	3.80	≤36	PASS
BLE_1M	Ant1	2480	8.05	≤30	2.83	≤36	PASS
BLE_2M	Ant1	2402	8.31	≤30	3.09	≤36	PASS
BLE_2M	Ant1	2440	9.04	≤30	3.82	≤36	PASS
BLE_2M	Ant1	2480	8.29	≤30	3.07	≤36	PASS

Test Graphs Peak

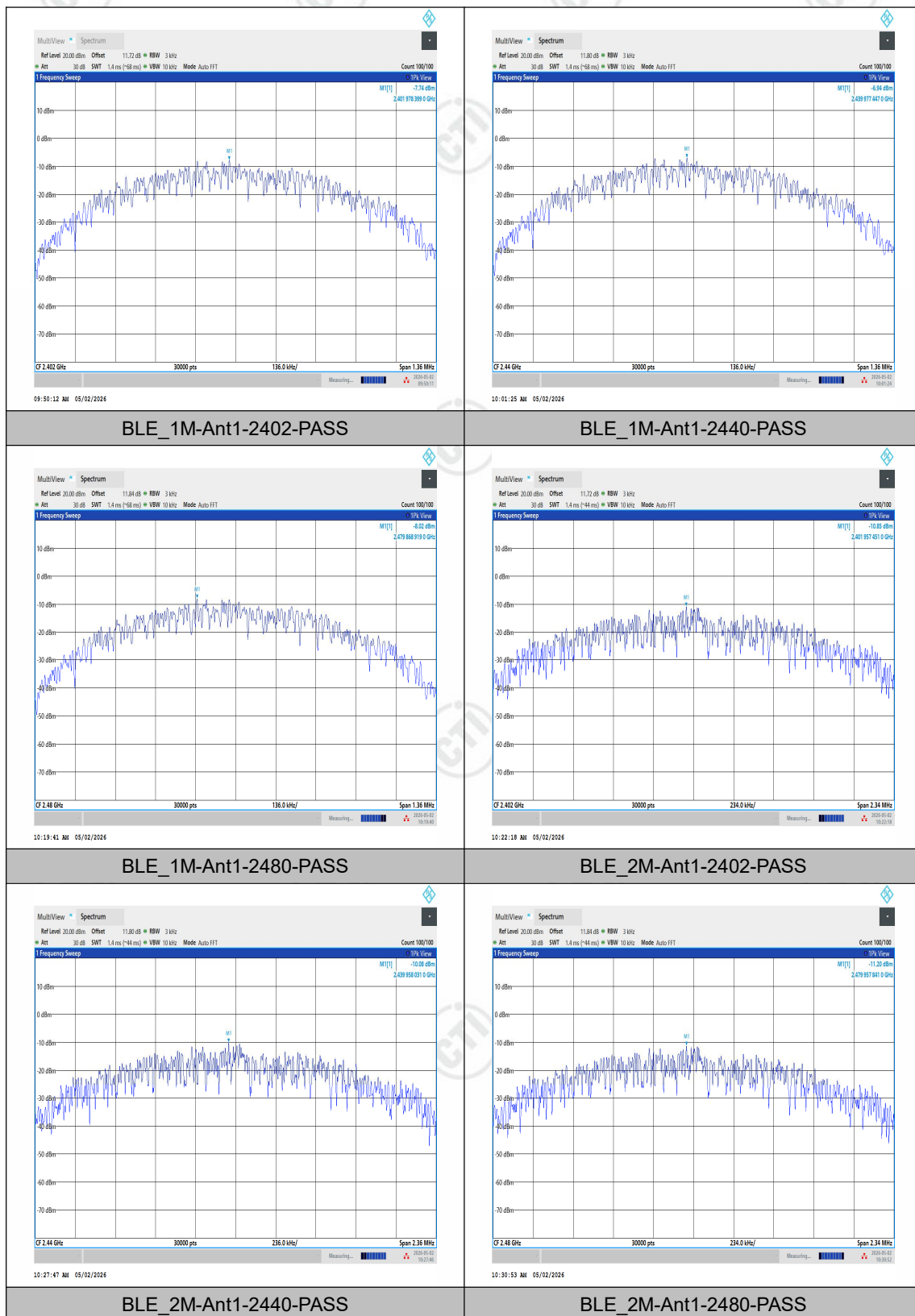


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.74	≤8.00	PASS
BLE_1M	Ant1	2440	-6.94	≤8.00	PASS
BLE_1M	Ant1	2480	-8.02	≤8.00	PASS
BLE_2M	Ant1	2402	-10.85	≤8.00	PASS
BLE_2M	Ant1	2440	-10.08	≤8.00	PASS
BLE_2M	Ant1	2480	-11.20	≤8.00	PASS

Test Graphs

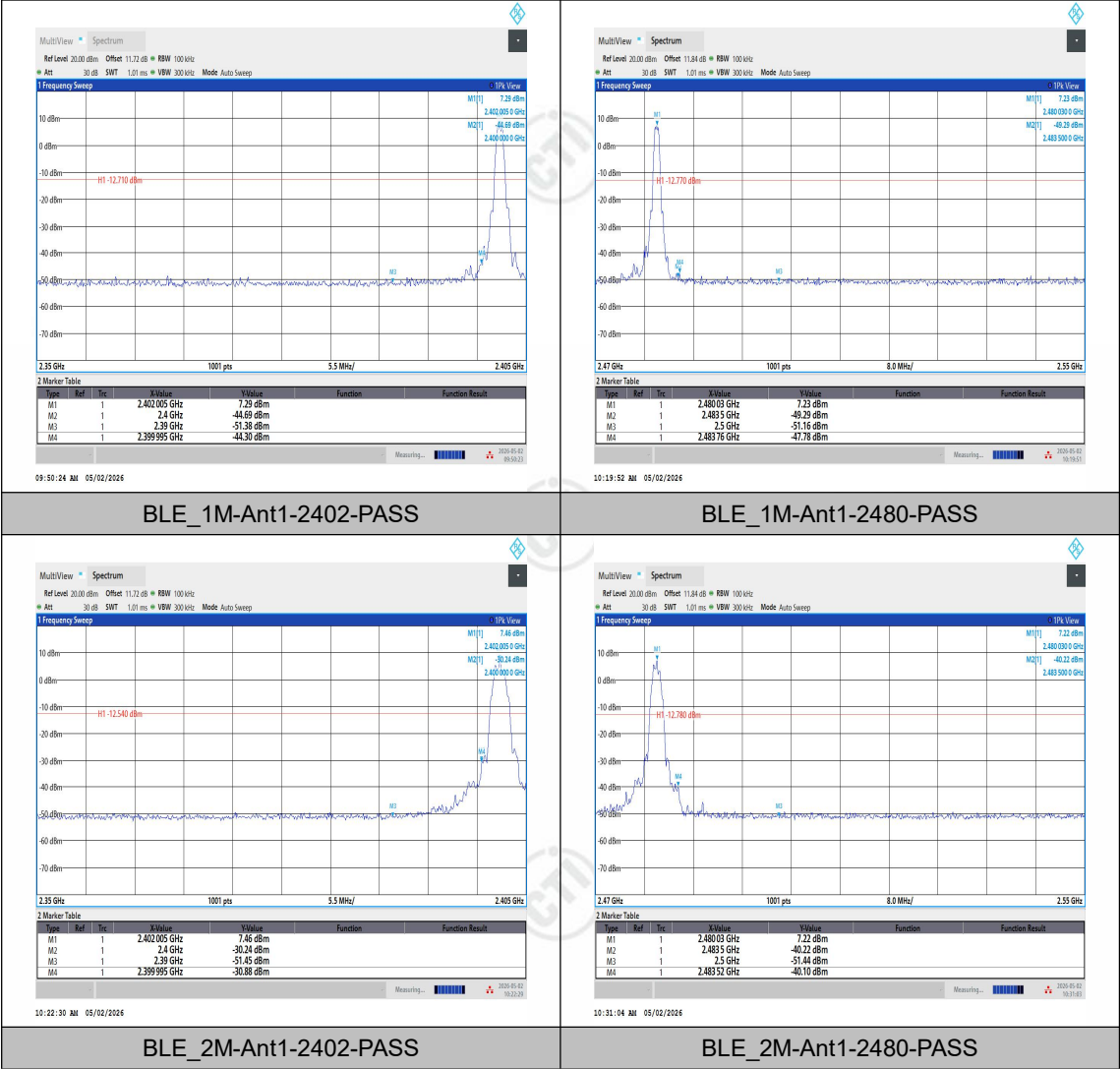


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.29	-44.3	≤-12.71	PASS
BLE_1M	Ant1	High	2480	7.23	-47.78	≤-12.77	PASS
BLE_2M	Ant1	Low	2402	7.46	-30.88	≤-12.54	PASS
BLE_2M	Ant1	High	2480	7.22	-40.1	≤-12.78	PASS

Test Graphs

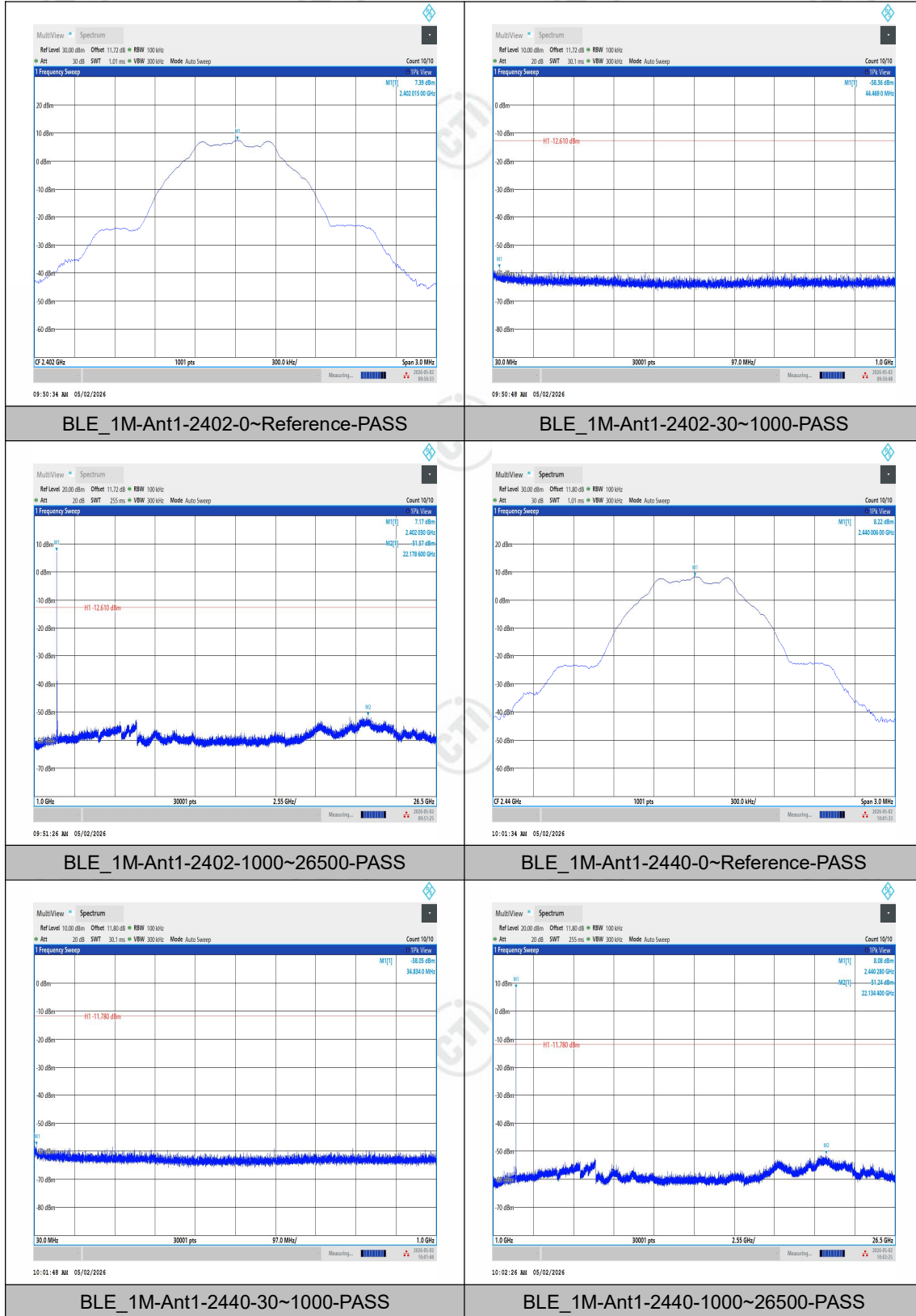


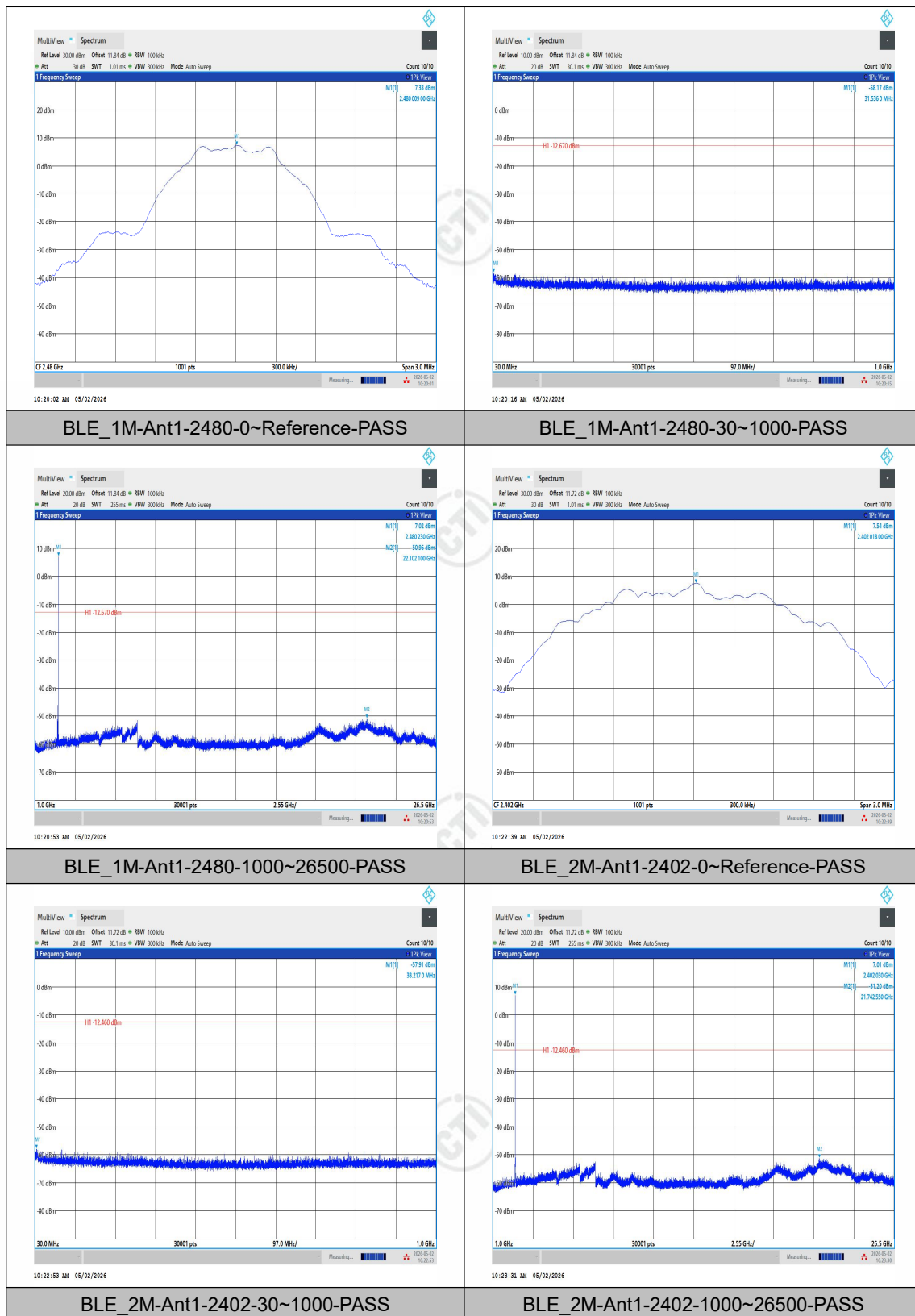
Appendix F: Conducted Spurious Emission

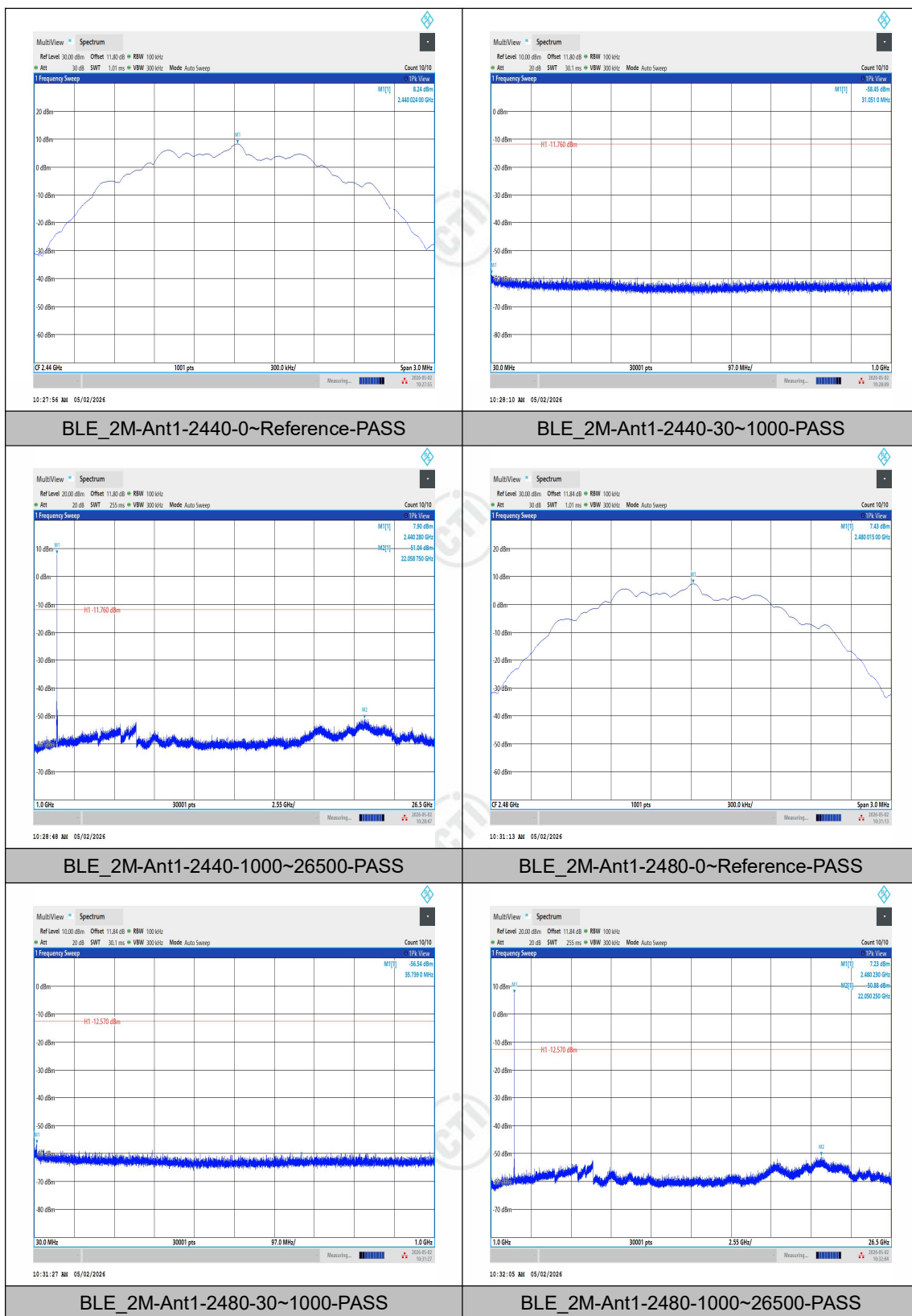
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	7.39	7.39	---	PASS
BLE_1M	Ant1	2402	30~1000	7.39	-58.36	≤-12.61	PASS
BLE_1M	Ant1	2402	1000~26500	7.39	-51.57	≤-12.61	PASS
BLE_1M	Ant1	2440	0~Reference	8.22	8.22	---	PASS
BLE_1M	Ant1	2440	30~1000	8.22	-58.05	≤-11.78	PASS
BLE_1M	Ant1	2440	1000~26500	8.22	-51.24	≤-11.78	PASS
BLE_1M	Ant1	2480	0~Reference	7.33	7.33	---	PASS
BLE_1M	Ant1	2480	30~1000	7.33	-58.17	≤-12.67	PASS
BLE_1M	Ant1	2480	1000~26500	7.33	-50.96	≤-12.67	PASS
BLE_2M	Ant1	2402	0~Reference	7.54	7.54	---	PASS
BLE_2M	Ant1	2402	30~1000	7.54	-57.91	≤-12.46	PASS
BLE_2M	Ant1	2402	1000~26500	7.54	-51.2	≤-12.46	PASS
BLE_2M	Ant1	2440	0~Reference	8.24	8.24	---	PASS
BLE_2M	Ant1	2440	30~1000	8.24	-58.45	≤-11.76	PASS
BLE_2M	Ant1	2440	1000~26500	8.24	-51.04	≤-11.76	PASS
BLE_2M	Ant1	2480	0~Reference	7.43	7.43	---	PASS
BLE_2M	Ant1	2480	30~1000	7.43	-56.54	≤-12.57	PASS
BLE_2M	Ant1	2480	1000~26500	7.43	-50.88	≤-12.57	PASS

Test Graphs





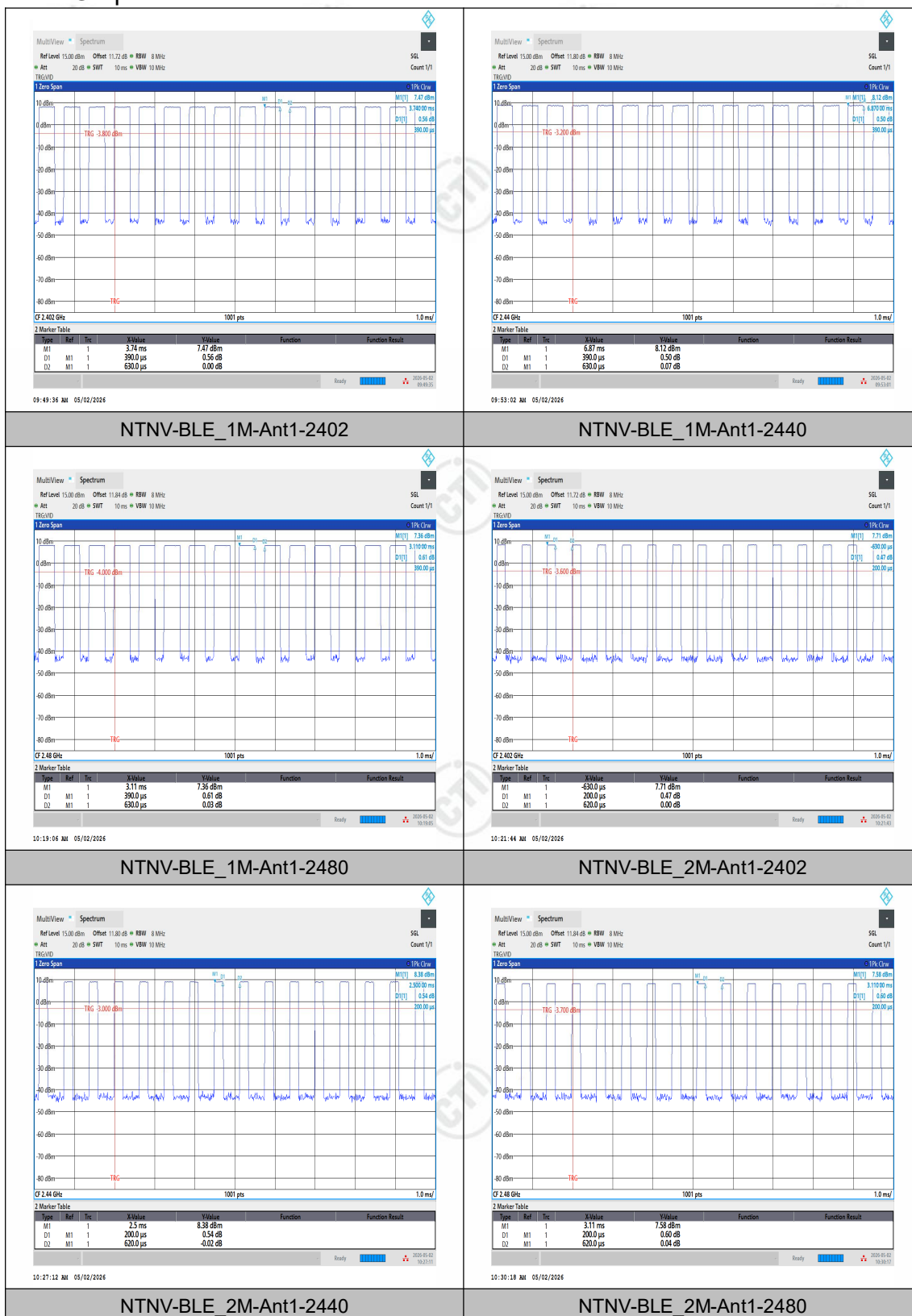


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2440	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.20	0.62	32.26	4.91
BLE_2M	Ant1	2440	0.20	0.62	32.26	4.91
BLE_2M	Ant1	2480	0.20	0.62	32.26	4.91

Test Graphs



*** End of Report ***