

Appendix: Bluetooth LE

Contents

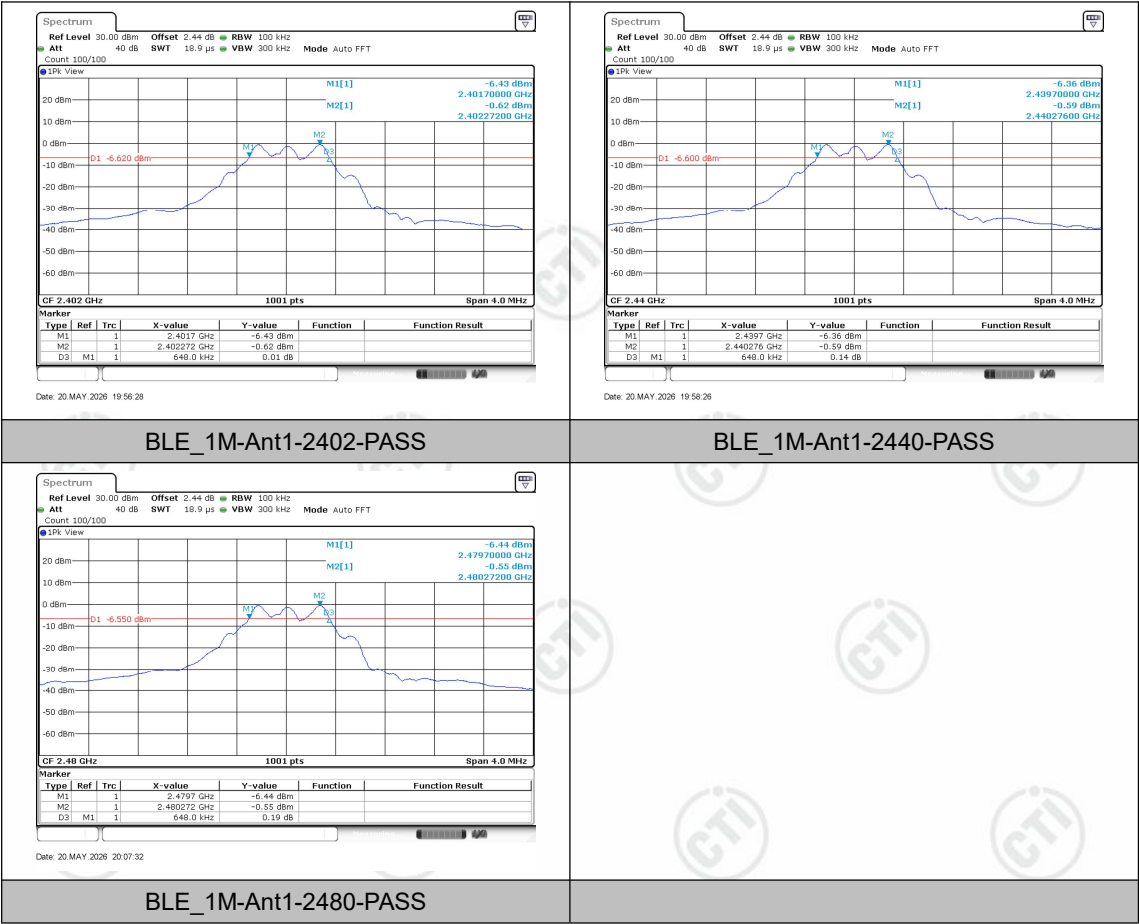
Appendix A: DTS Bandwidth	3
Test Result	3
Test Graphs	4
Appendix B: Occupied Channel Bandwidth	5
Test Result	5
Test Graphs	6
Appendix C: Maximum conducted output power	7
Test Result Peak	7
Test Graphs Peak	8
Appendix D: Maximum power spectral density	9
Test Result	9
Test Graphs	10
Appendix E: Band edge measurements	11
Test Result	11
Test Graphs	12
Appendix F: Conducted Spurious Emission	13
Test Result	13
Test Graphs	14
Appendix G: Duty Cycle	16
Test Result	16
Test Graphs	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	0.65	2401.70	2402.35	0.5	PASS
BLE_1M	Ant1	2440	0.65	2439.70	2440.35	0.5	PASS
BLE_1M	Ant1	2480	0.65	2479.70	2480.35	0.5	PASS

Test Graphs

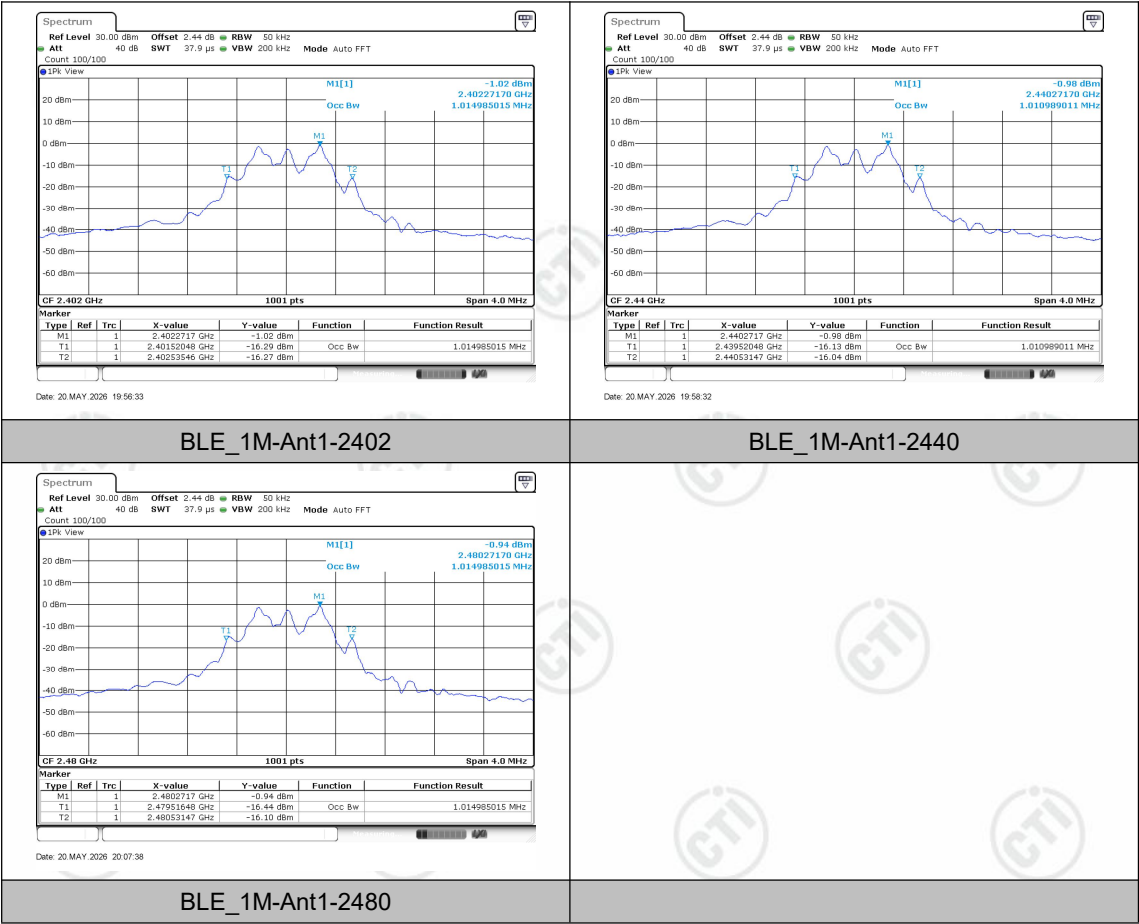


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0150	2401.5205	2402.5355	---	---
BLE_1M	Ant1	2440	1.0110	2439.5205	2440.5315	---	---
BLE_1M	Ant1	2480	1.0150	2479.5165	2480.5315	---	---

Test Graphs

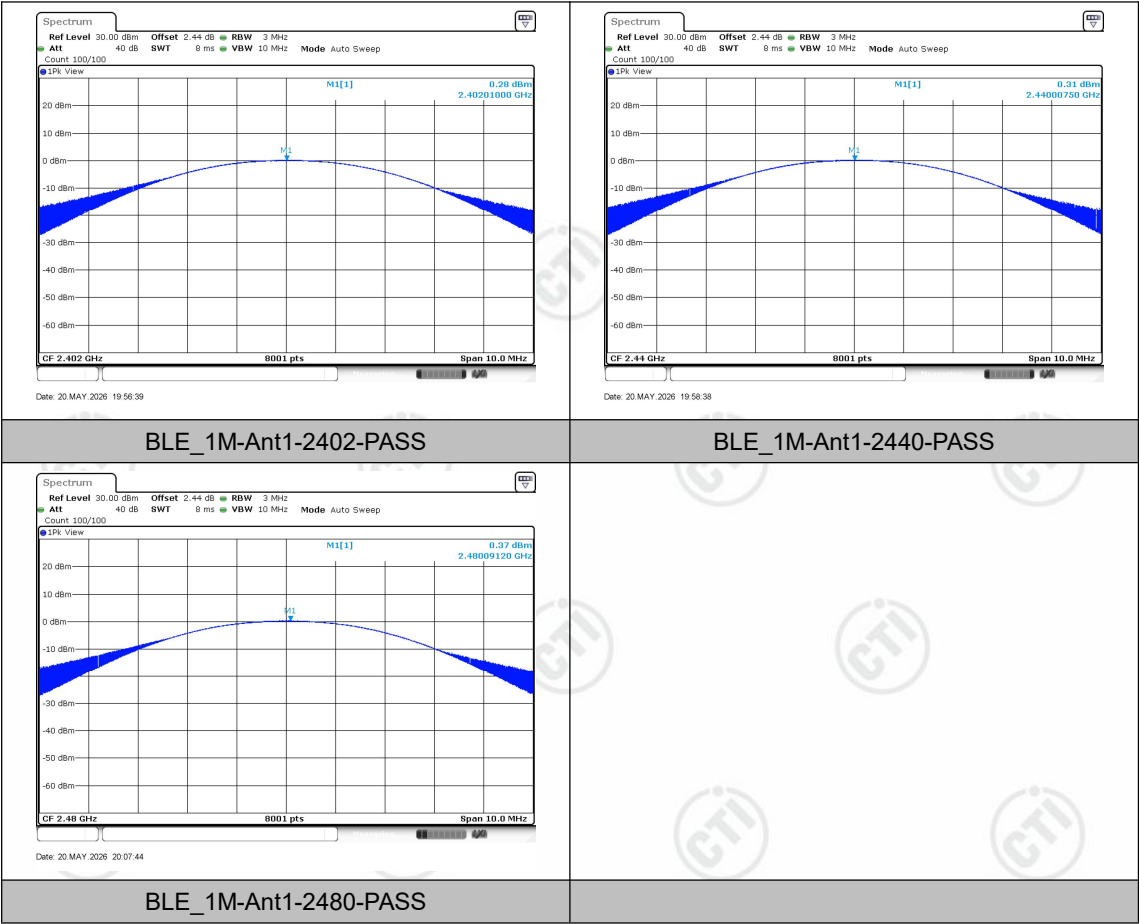


Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.28	≤30	1.86	≤36	PASS
BLE_1M	Ant1	2440	0.31	≤30	1.89	≤36	PASS
BLE_1M	Ant1	2480	0.37	≤30	1.95	≤36	PASS

Test Graphs Peak

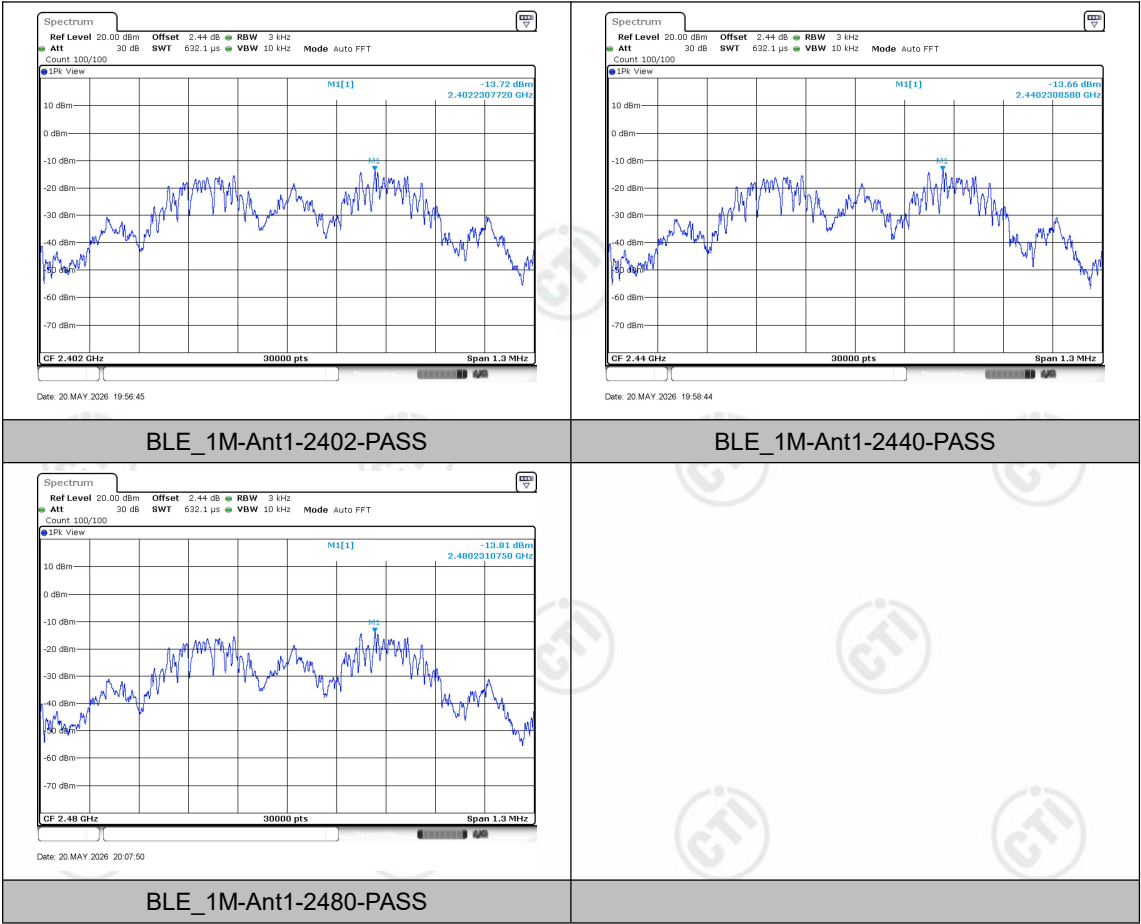


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.72	≤8.00	PASS
BLE_1M	Ant1	2440	-13.66	≤8.00	PASS
BLE_1M	Ant1	2480	-13.81	≤8.00	PASS

Test Graphs

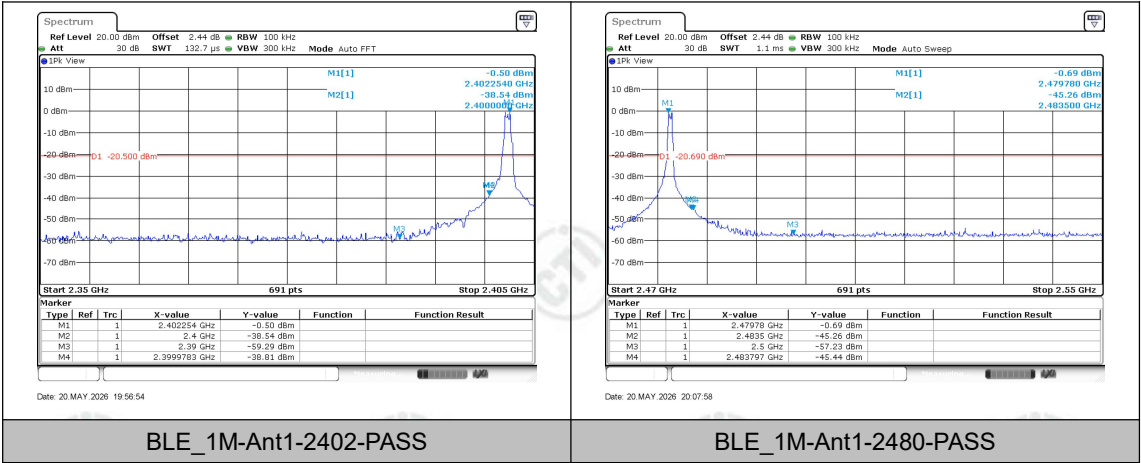


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.50	-38.81	≤-20.5	PASS
BLE_1M	Ant1	High	2480	-0.69	-45.44	≤-20.69	PASS

Test Graphs

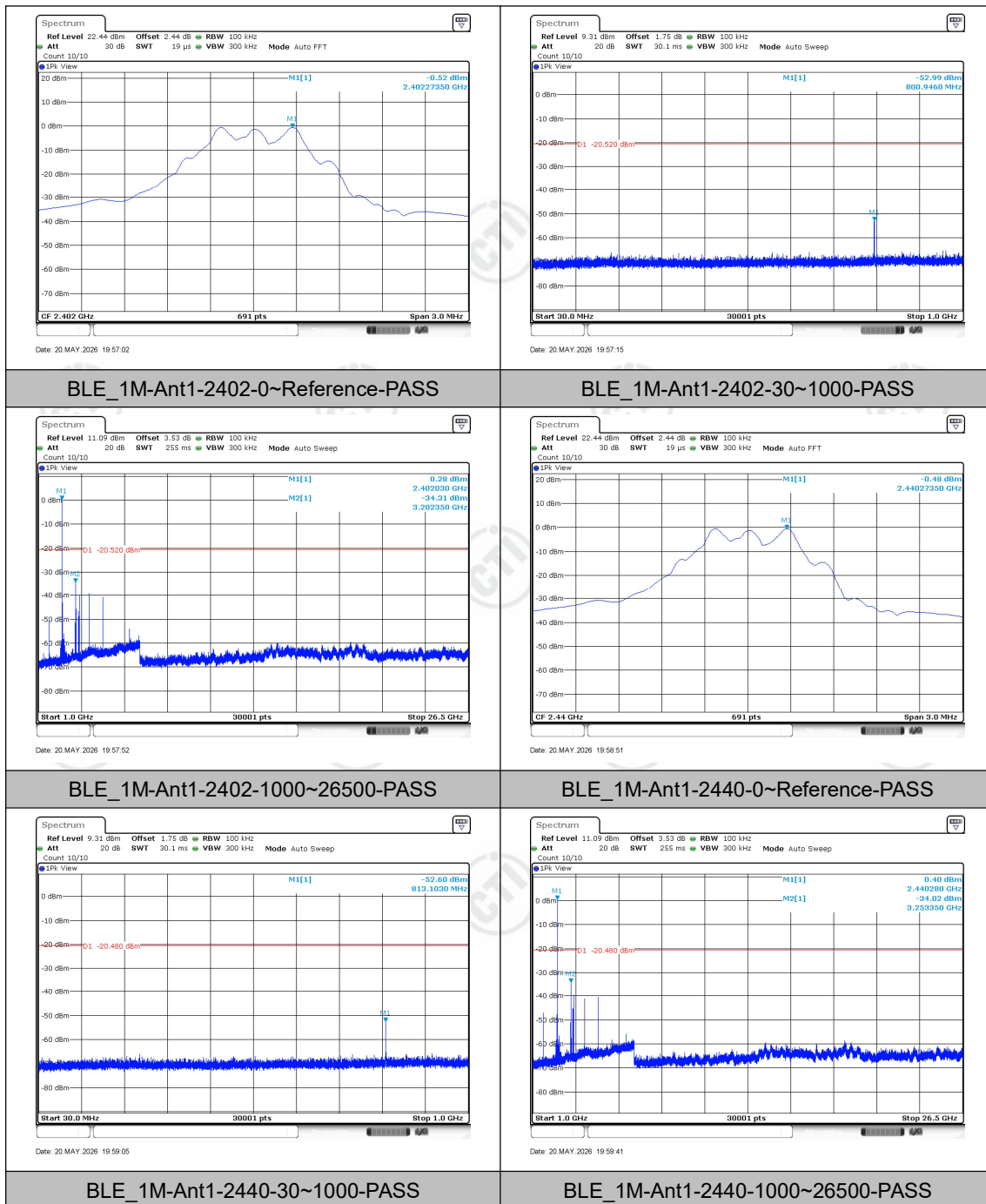


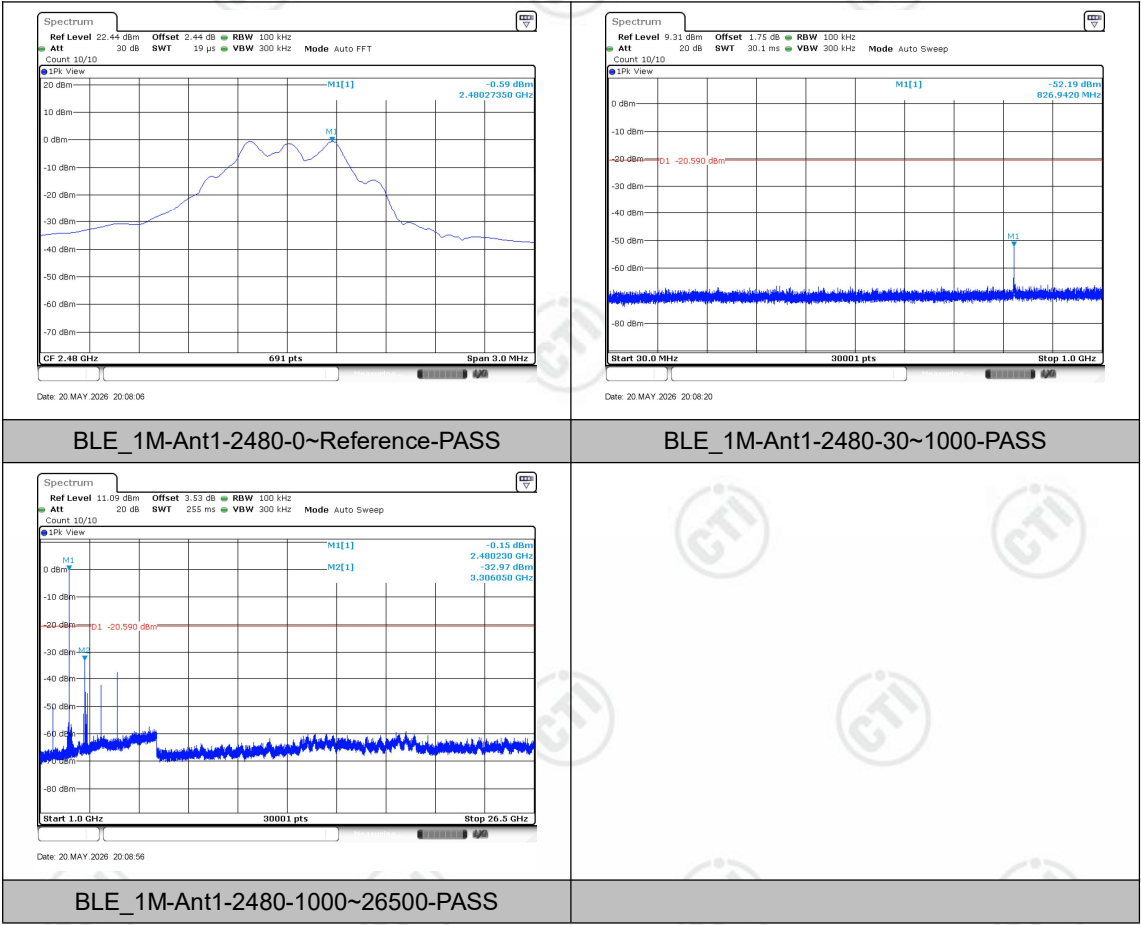
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.52	-0.52	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.52	-52.99	≤-20.52	PASS
BLE_1M	Ant1	2402	1000~26500	-0.52	-34.31	≤-20.52	PASS
BLE_1M	Ant1	2440	0~Reference	-0.48	-0.48	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.48	-52.6	≤-20.48	PASS
BLE_1M	Ant1	2440	1000~26500	-0.48	-34.02	≤-20.48	PASS
BLE_1M	Ant1	2480	0~Reference	-0.59	-0.59	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.59	-52.19	≤-20.59	PASS
BLE_1M	Ant1	2480	1000~26500	-0.59	-32.97	≤-20.59	PASS

Test Graphs



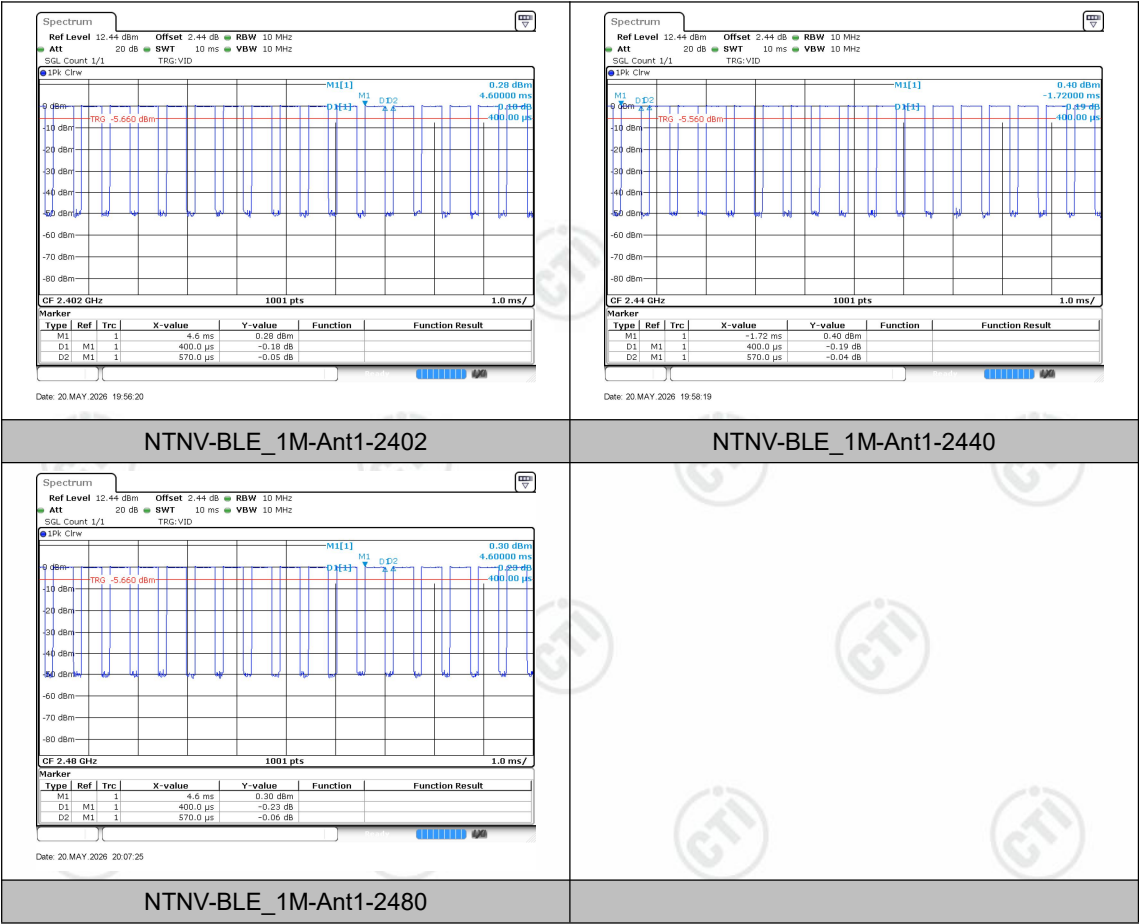


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.57	70.18	1.54
BLE_1M	Ant1	2440	0.40	0.57	70.18	1.54
BLE_1M	Ant1	2480	0.40	0.57	70.18	1.54

Test Graphs



*** End of Report ***