Appendix: Bluetooth LE

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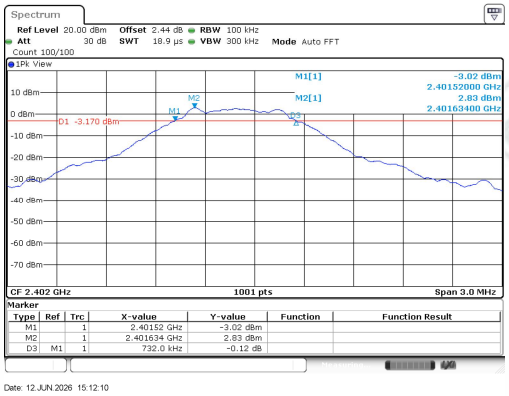
Appendix A: DTS Bandwidth

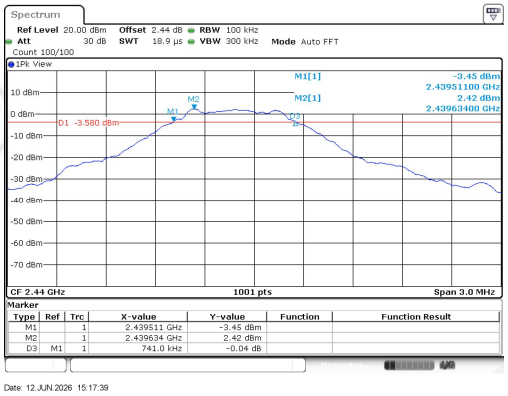
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.73	2401.52	2402.25	0.5	PASS
BLE_1M	Ant1	2440	0.74	2439.51	2440.25	0.5	PASS
BLE_1M	Ant1	2480	0.74	2479.51	2480.25	0.5	PASS

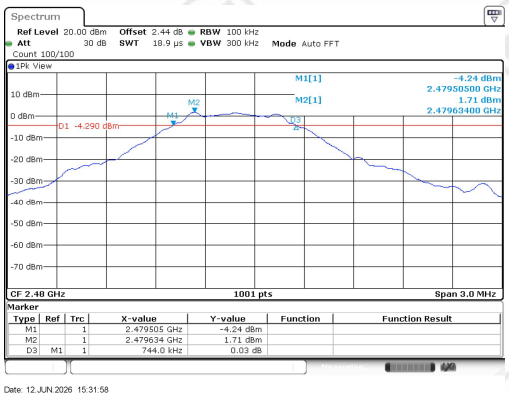
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



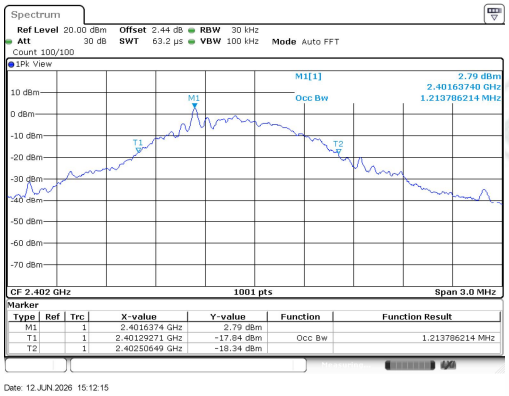
BLE_1M-Ant1-2480-PASS

Appendix B: Occupied Channel Bandwidth

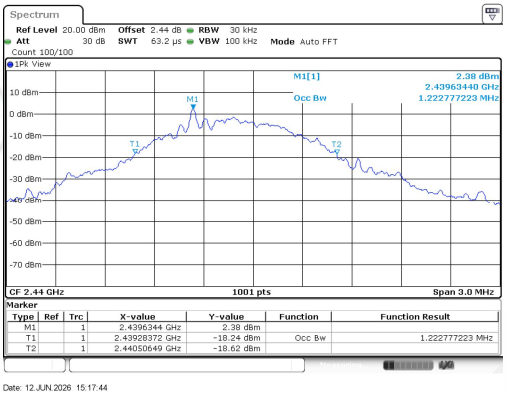
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.2138	2401.2927	2402.5065
BLE_1M	Ant1	2440	1.2228	2439.2837	2440.5065
BLE_1M	Ant1	2480	1.2258	2479.2777	2480.5035

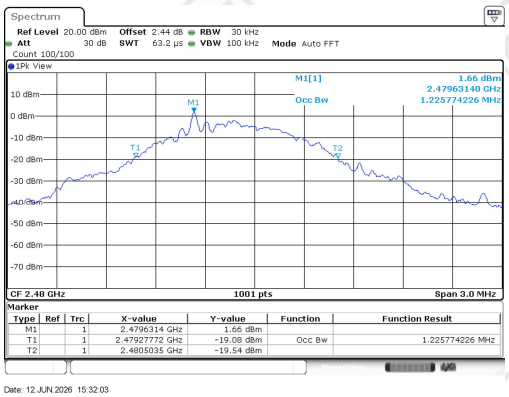
Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



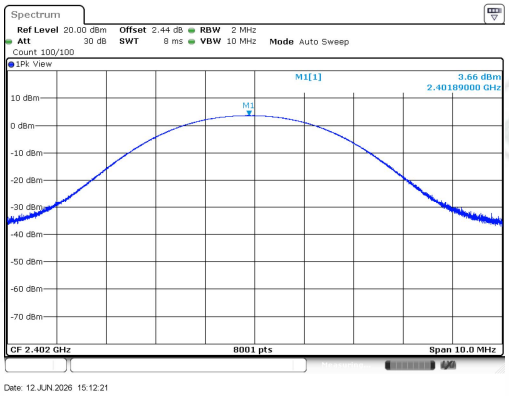
BLE_1M-Ant1-2480

Appendix C: Maximum conducted output power

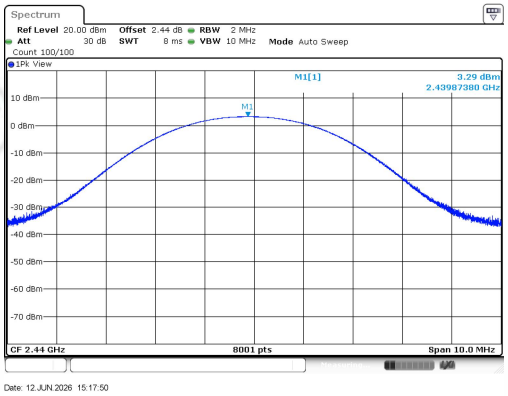
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.66	≤30	6.24	≤36	PASS
BLE_1M	Ant1	2440	3.29	≤30	5.87	≤36	PASS
BLE_1M	Ant1	2480	2.61	≤30	5.19	≤36	PASS

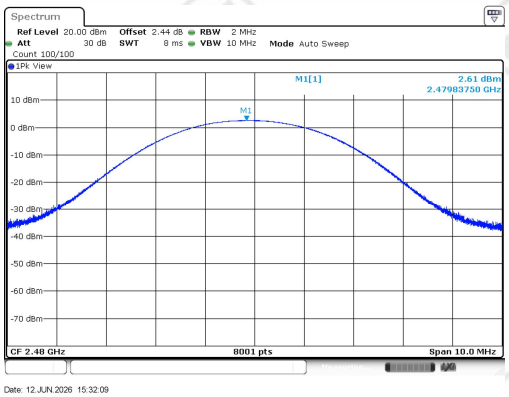
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



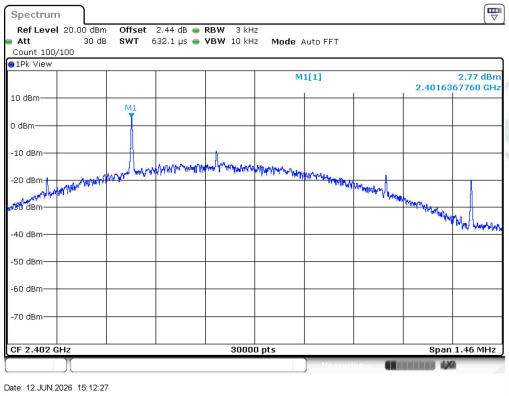
BLE_1M-Ant1-2480-PASS

Appendix D: Maximum power spectral density

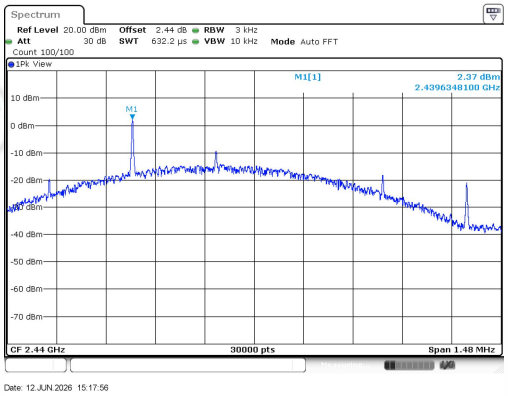
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	2.77	≤8.00	PASS
BLE_1M	Ant1	2440	2.37	≤8.00	PASS
BLE_1M	Ant1	2480	1.66	≤8.00	PASS

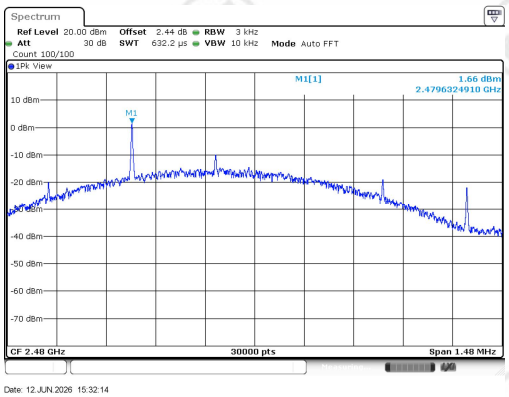
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



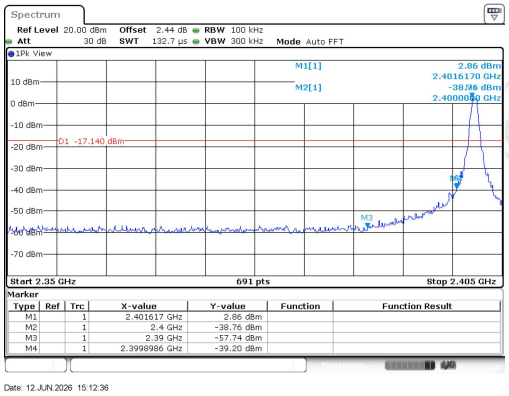
BLE_1M-Ant1-2480-PASS

Appendix E: Band edge measurements

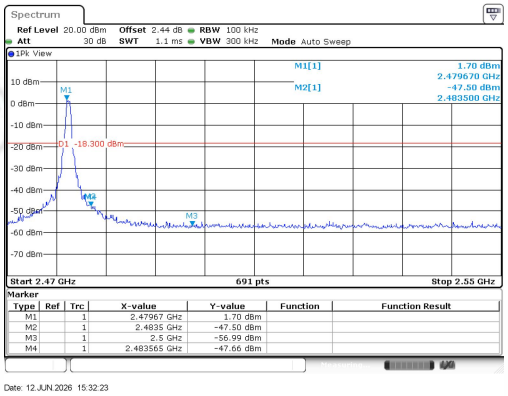
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.86	-39.2	≤-17.14	PASS
BLE_1M	Ant1	High	2480	1.70	-47.66	≤-18.3	PASS

Test Graphs



BLE_1M-Ant1-2402-PASS



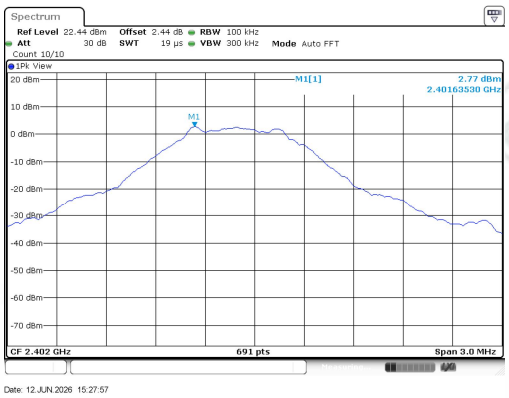
BLE_1M-Ant1-2480-PASS

Appendix F: Conducted Spurious Emission

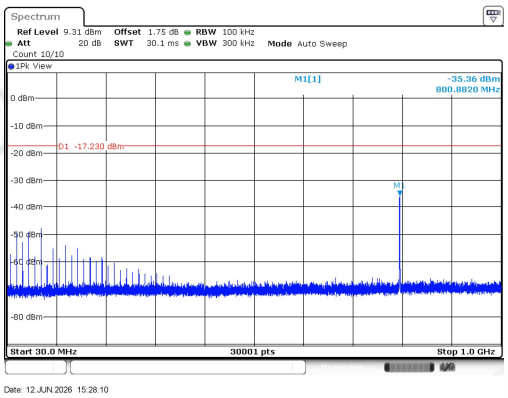
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	2.77	2.77	---	PASS
BLE_1M	Ant1	2402	30~1000	2.77	-35.36	≤-17.23	PASS
BLE_1M	Ant1	2402	1000~26500	2.77	-33.16	≤-17.23	PASS
BLE_1M	Ant1	2440	0~Reference	2.39	2.39	---	PASS
BLE_1M	Ant1	2440	30~1000	2.39	-34.92	≤-17.61	PASS
BLE_1M	Ant1	2440	1000~26500	2.39	-38.52	≤-17.61	PASS
BLE_1M	Ant1	2480	0~Reference	1.71	1.71	---	PASS
BLE_1M	Ant1	2480	30~1000	1.71	-34.49	≤-18.29	PASS
BLE_1M	Ant1	2480	1000~26500	1.71	-42.8	≤-18.29	PASS

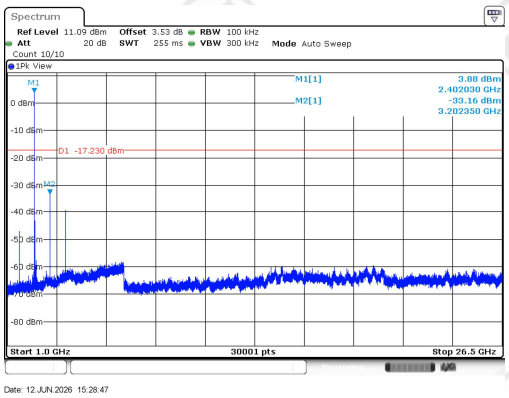
Test Graphs



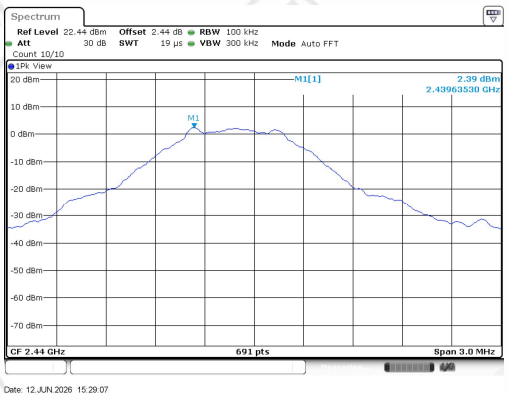
BLE_1M-Ant1-2402-0~Reference-PASS



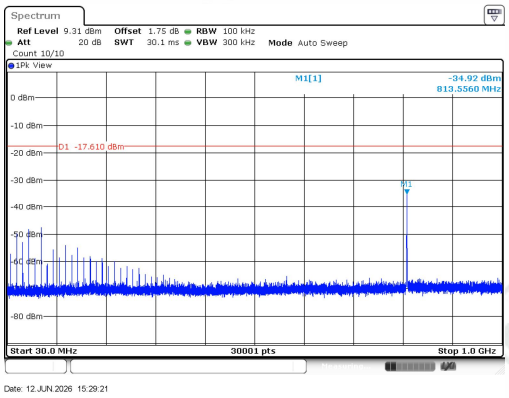
BLE_1M-Ant1-2402-30~1000-PASS



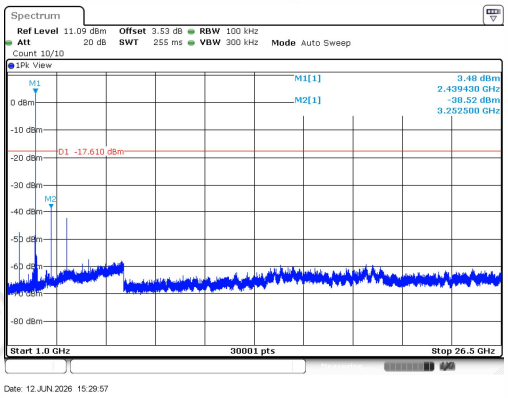
BLE_1M-Ant1-2402-1000~26500-PASS



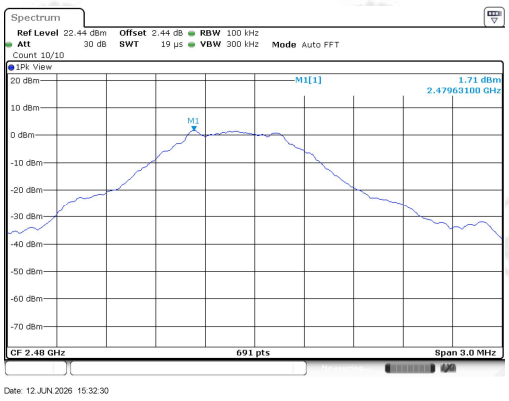
BLE_1M-Ant1-2440-0~Reference-PASS



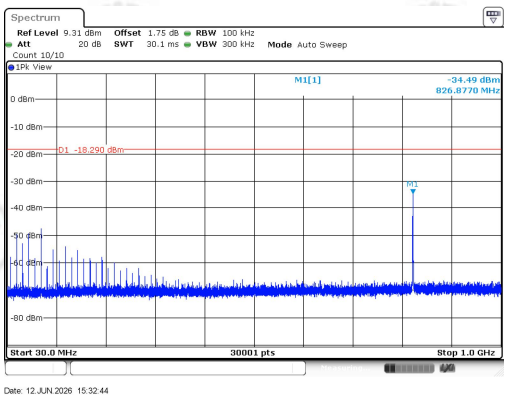
BLE_1M-Ant1-2440-30~1000-PASS



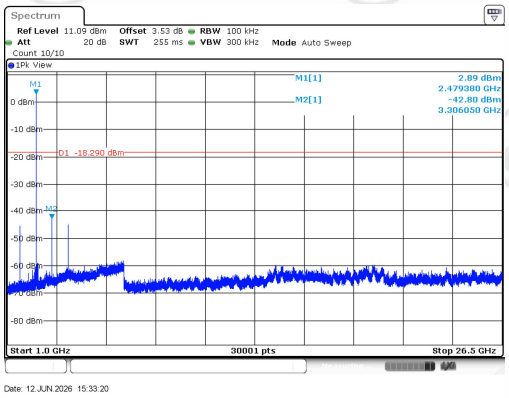
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



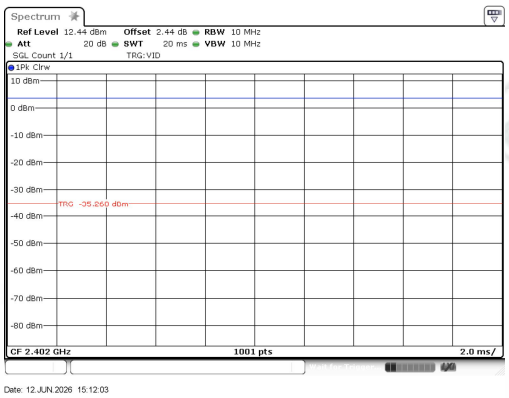
BLE_1M-Ant1-2480-1000~26500-PASS

Appendix G: Duty Cycle

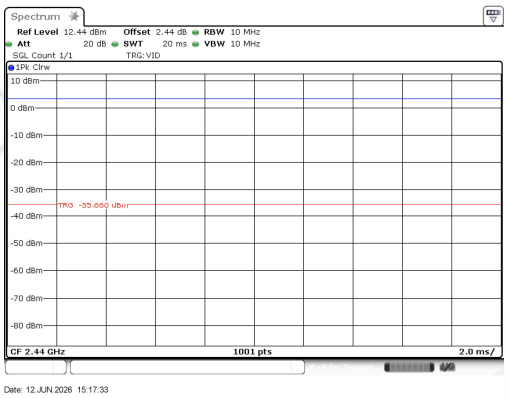
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.00	0.00	100	0
BLE_1M	Ant1	2440	0.00	0.00	100	0
BLE_1M	Ant1	2480	0.00	0.00	100	0

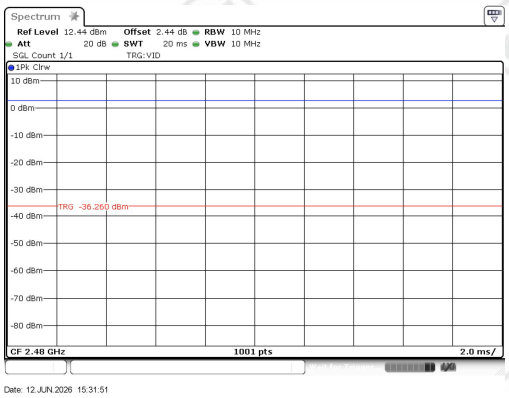
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

*** End of Report ***