



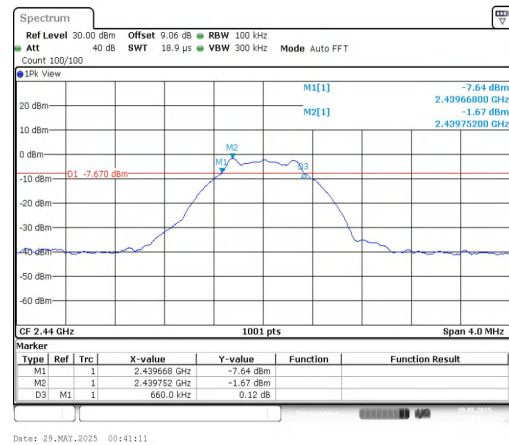
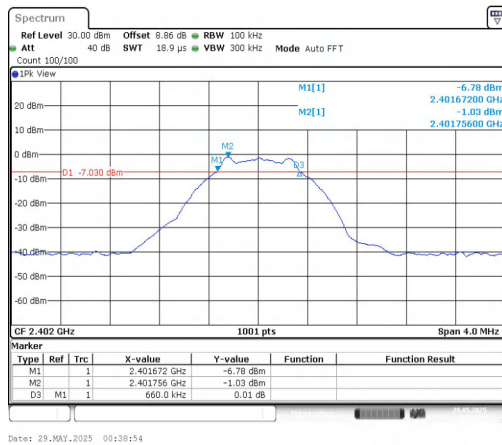
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.67	2402.33	0.5	PASS
BLE_1M	Ant1	2440	0.66	2439.67	2440.33	0.5	PASS
BLE_1M	Ant1	2480	0.66	2479.67	2480.33	0.5	PASS
BLE_2M	Ant1	2402	1.15	2401.42	2402.57	0.5	PASS
BLE_2M	Ant1	2440	1.15	2439.42	2440.56	0.5	PASS
BLE_2M	Ant1	2480	1.15	2479.42	2480.57	0.5	PASS

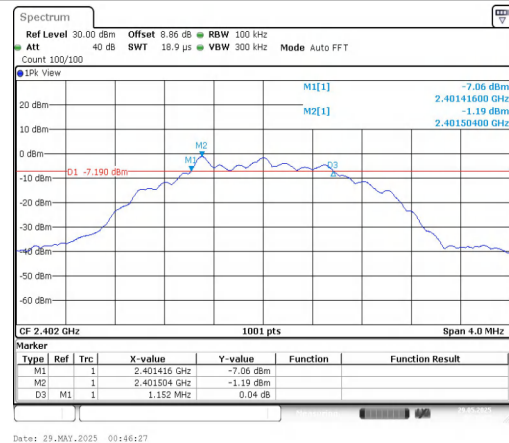
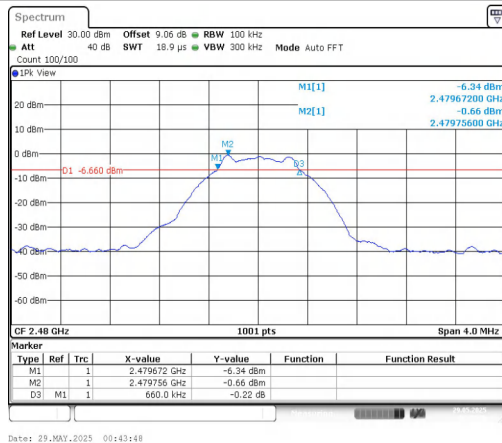


Test Graphs



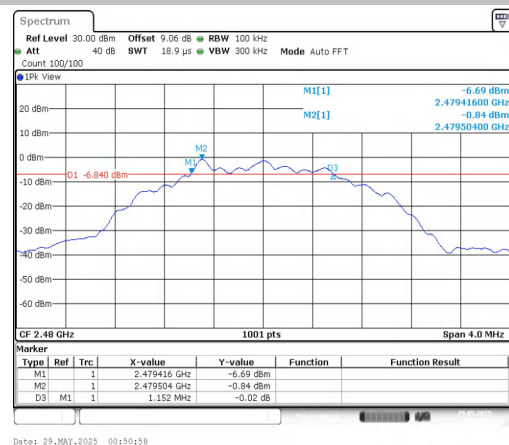
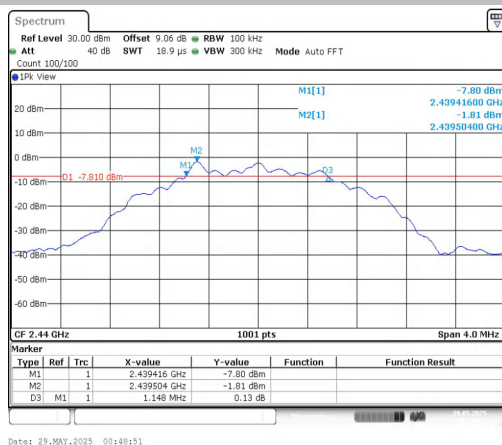
BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

BLE_2M-Ant1-2480-PASS



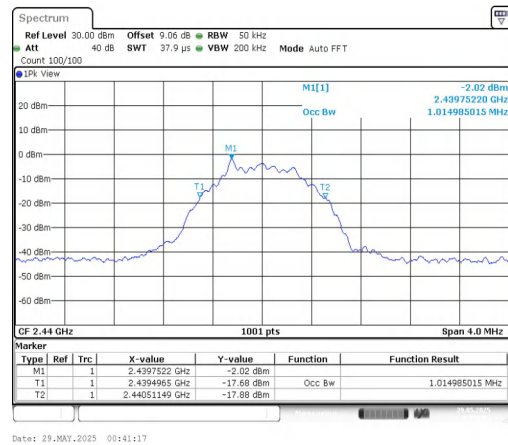
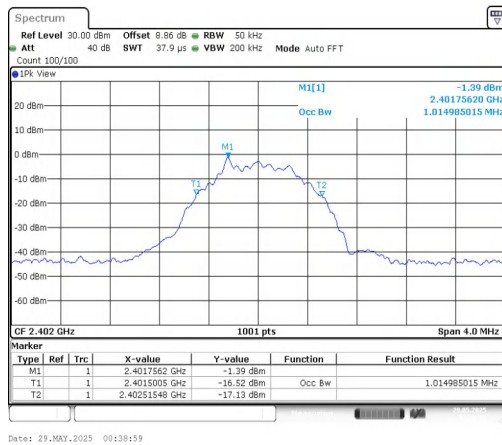
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.015	2401.5005	2402.5155	---	---
BLE_1M	Ant1	2440	1.015	2439.4965	2440.5115	---	---
BLE_1M	Ant1	2480	1.015	2479.4965	2480.5115	---	---
BLE_2M	Ant1	2402	2.03	2401.0050	2403.0350	---	---
BLE_2M	Ant1	2440	2.026	2439.0010	2441.0270	---	---
BLE_2M	Ant1	2480	2.03	2479.0010	2481.0310	---	---

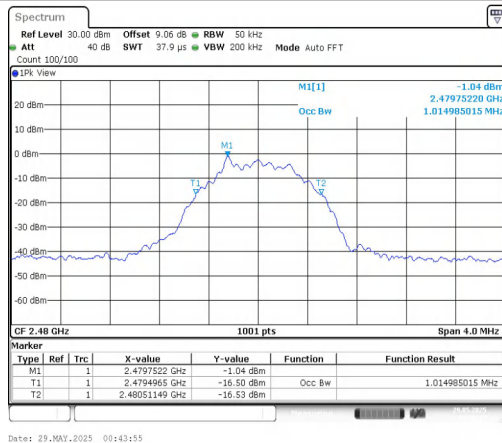


Test Graphs



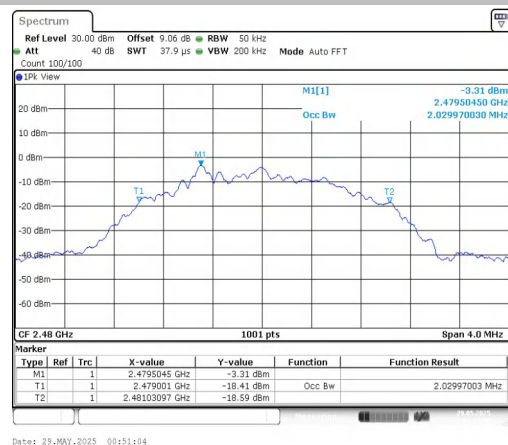
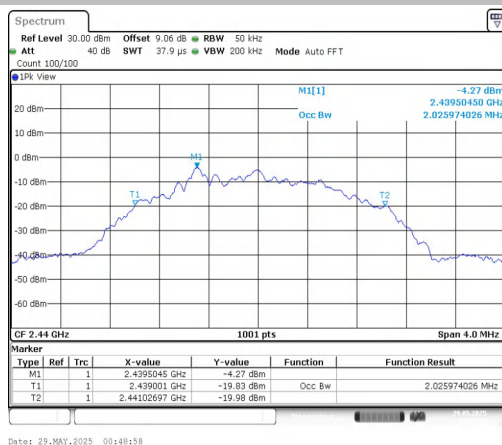
BLE_1M-Ant1-2402

BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

BLE_2M-Ant1-2402



BLE_2M-Ant1-2440

BLE_2M-Ant1-2480



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Peak Power [dBm]	Peak Power Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-0.30	≤30	0.99	0.69	--	PASS
BLE_1M	Ant1	2440	-1.07	≤30	0.99	-0.08	--	PASS
BLE_1M	Ant1	2480	-0.03	≤30	0.99	0.96	--	PASS
BLE_2M	Ant1	2402	-0.43	≤30	0.99	0.56	--	PASS
BLE_2M	Ant1	2440	-1.12	≤30	0.99	-0.13	--	PASS
BLE_2M	Ant1	2480	-0.18	≤30	0.99	0.81	--	PASS

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Conducted Sensor Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	AV Power [dBm]	AV Power Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-1.70	87.23	0.59	-1.11	≤30.00	0.99	-0.12	--	PASS
BLE_1M	Ant1	2440	-2.63	87.23	0.59	-2.04	≤30.00	0.99	-1.05	--	PASS
BLE_1M	Ant1	2480	-2.15	87.23	0.59	-1.56	≤30.00	0.99	-0.57	--	PASS
BLE_2M	Ant1	2402	-1.07	66.40	1.78	0.71	≤30.00	0.99	1.70	--	PASS
BLE_2M	Ant1	2440	-2.00	65.60	1.83	-0.17	≤30.00	0.99	0.82	--	PASS
BLE_2M	Ant1	2480	-1.54	66.40	1.78	0.24	≤30.00	0.99	1.23	--	PASS
AV Power [dBm]= Conducted Sensor Power + DC Factor											



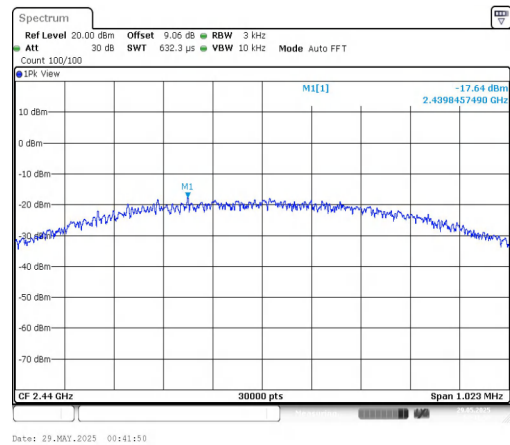
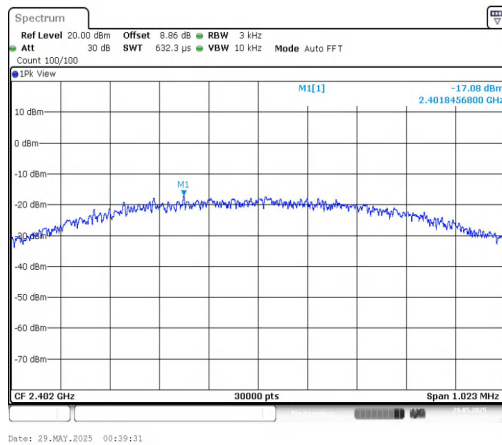
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.08	≤8.00	PASS
BLE_1M	Ant1	2440	-17.64	≤8.00	PASS
BLE_1M	Ant1	2480	-16.83	≤8.00	PASS
BLE_2M	Ant1	2402	-20.26	≤8.00	PASS
BLE_2M	Ant1	2440	-20.91	≤8.00	PASS
BLE_2M	Ant1	2480	-19.85	≤8.00	PASS

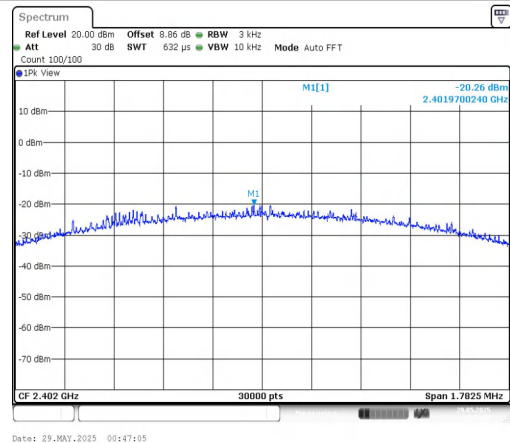
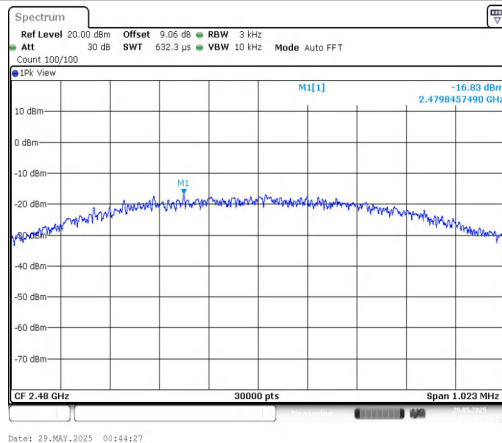


Test Graphs



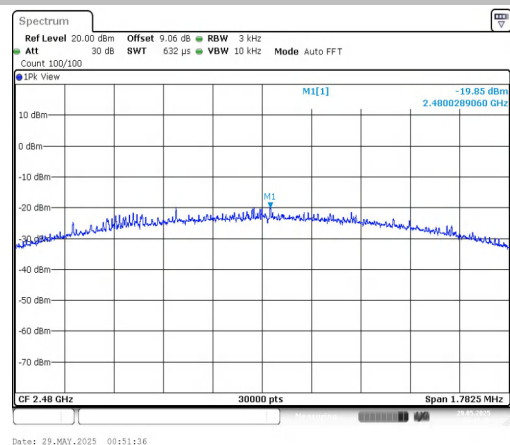
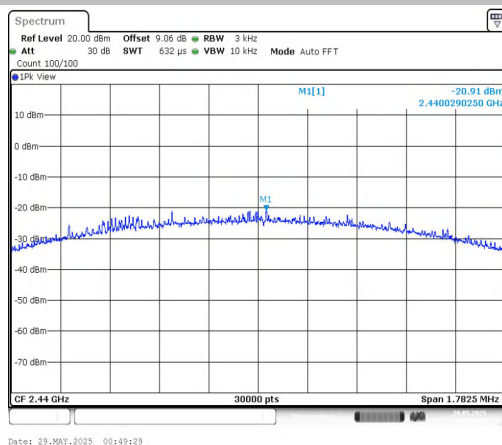
BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

BLE_2M-Ant1-2480-PASS



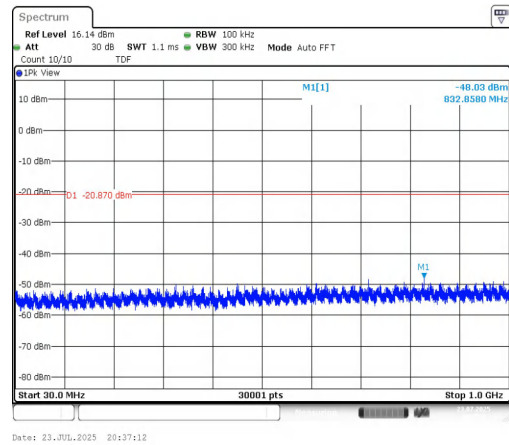
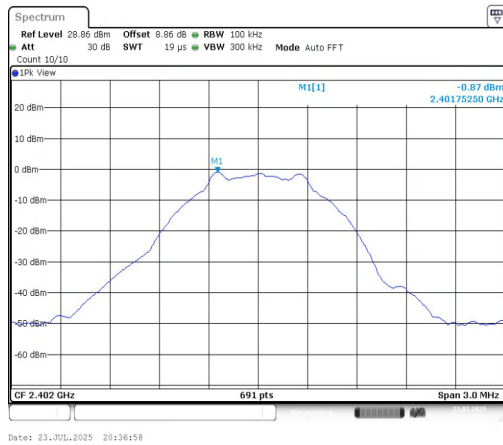
Appendix E: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.87	-0.87	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.87	-48.03	≤ -20.87	PASS
BLE_1M	Ant1	2402	1000~26500	-0.87	-32.94	≤ -20.87	PASS
BLE_1M	Ant1	2440	0~Reference	-1.79	-1.79	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.79	-48.68	≤ -21.79	PASS
BLE_1M	Ant1	2440	1000~26500	-1.79	-33	≤ -21.79	PASS
BLE_1M	Ant1	2480	0~Reference	-1.31	-1.31	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.31	-48.98	≤ -21.31	PASS
BLE_1M	Ant1	2480	1000~26500	-1.31	-32.72	≤ -21.31	PASS
BLE_2M	Ant1	2402	0~Reference	-1.07	-1.07	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.07	-48.34	≤ -21.07	PASS
BLE_2M	Ant1	2402	1000~26500	-1.07	-33.22	≤ -21.07	PASS
BLE_2M	Ant1	2440	0~Reference	-1.95	-1.95	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.95	-48.39	≤ -21.95	PASS
BLE_2M	Ant1	2440	1000~26500	-1.95	-32.67	≤ -21.95	PASS
BLE_2M	Ant1	2480	0~Reference	-1.53	-1.53	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.53	-48.8	≤ -21.53	PASS
BLE_2M	Ant1	2480	1000~26500	-1.53	-32.66	≤ -21.53	PASS

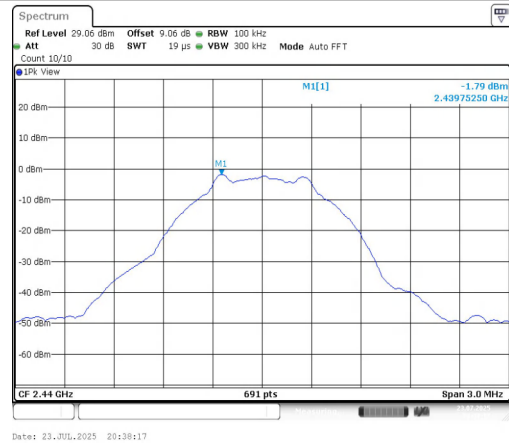
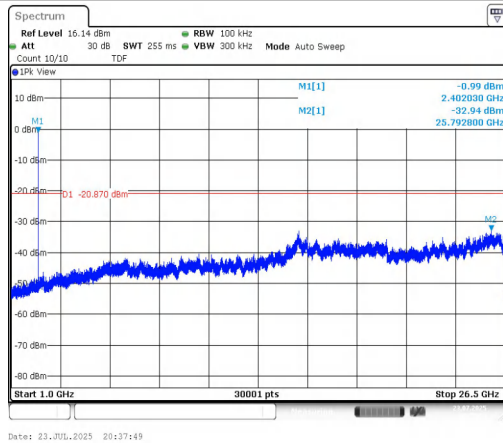


Test Graphs



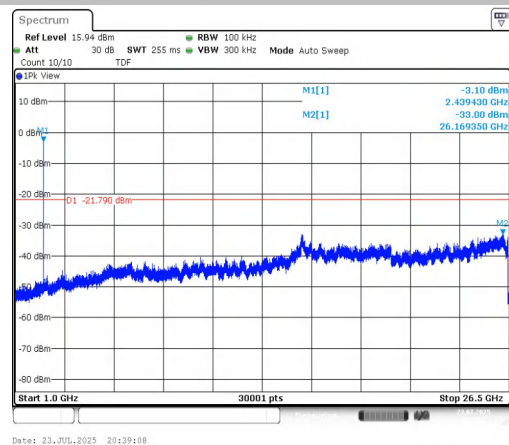
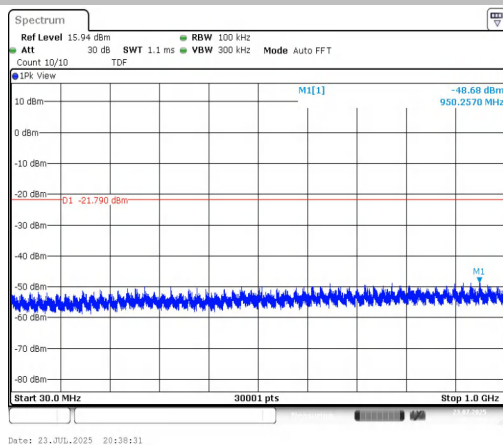
BLE_1M-Ant1-2402-0~Reference-PASS

BLE_1M-Ant1-2402-30~1000-PASS



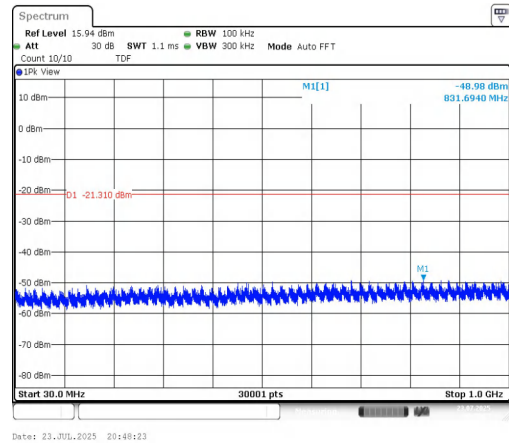
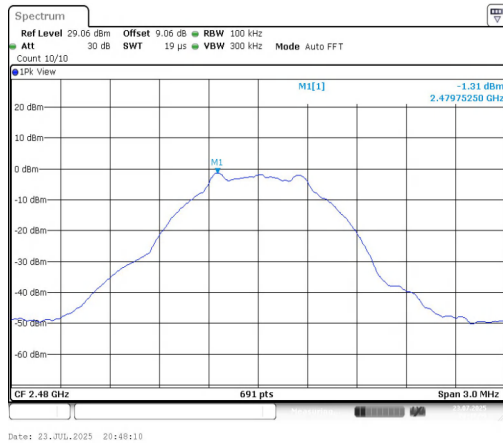
BLE_1M-Ant1-2402-1000~26500-PASS

BLE_1M-Ant1-2440-0~Reference-PASS



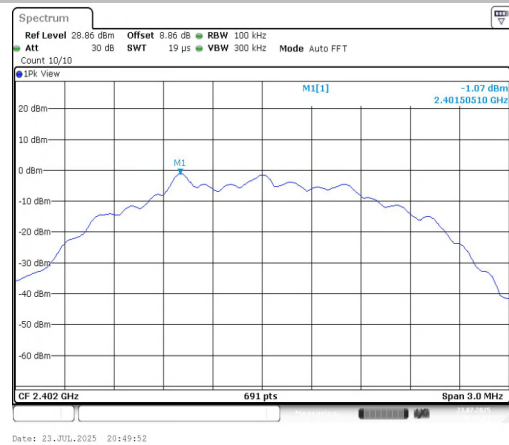
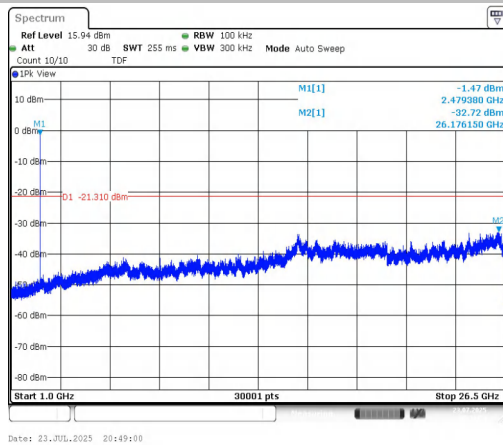
BLE_1M-Ant1-2440-30~1000-PASS

BLE_1M-Ant1-2440-1000~26500-PASS



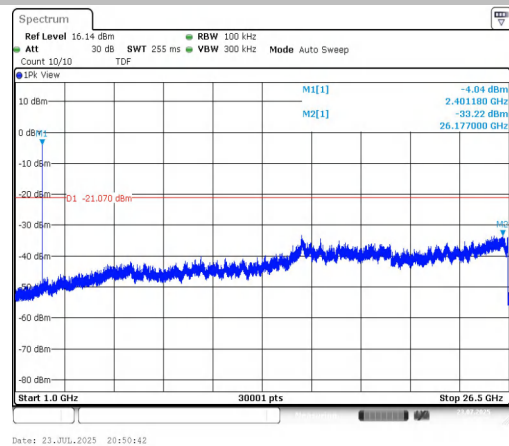
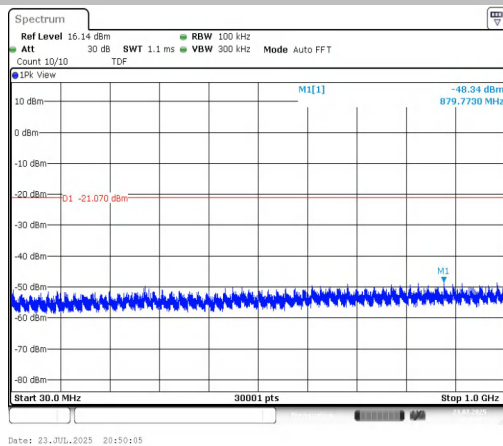
BLE_1M-Ant1-2480-0~Reference-PASS

BLE_1M-Ant1-2480-30~1000-PASS



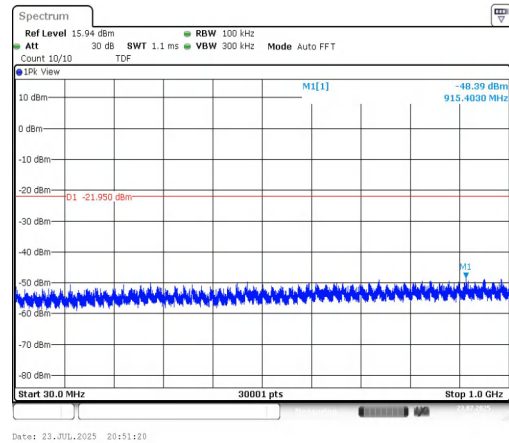
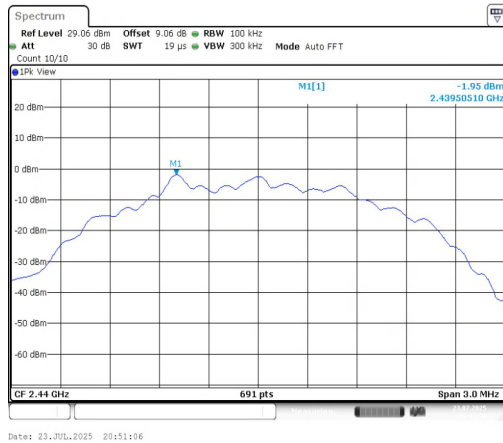
BLE_1M-Ant1-2480-1000~26500-PASS

BLE_2M-Ant1-2402-0~Reference-PASS



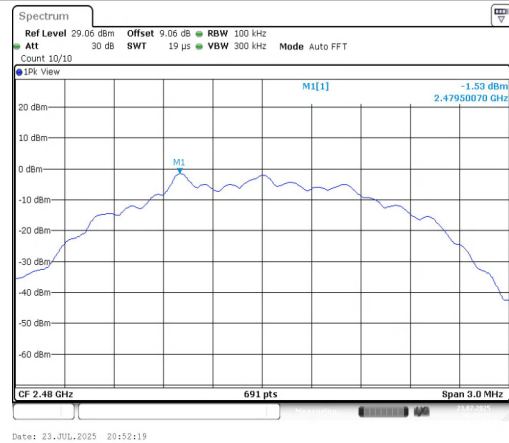
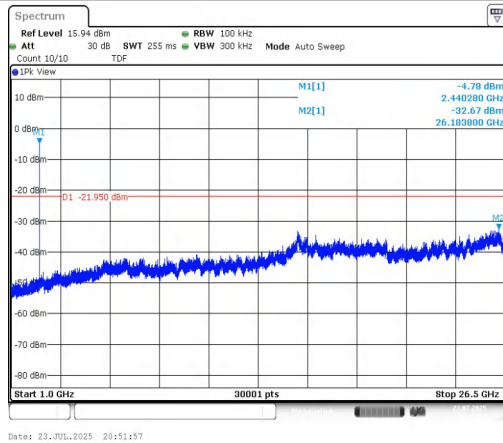
BLE_2M-Ant1-2402-30~1000-PASS

BLE_2M-Ant1-2402-1000~26500-PASS



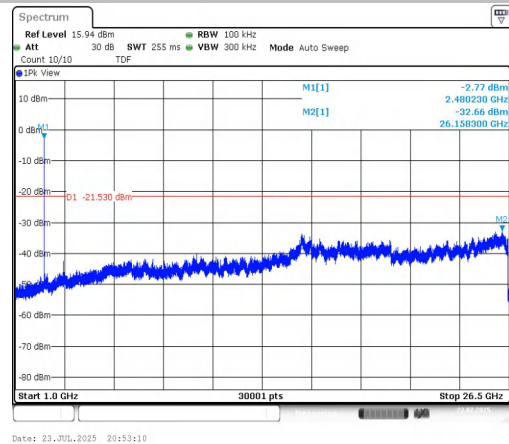
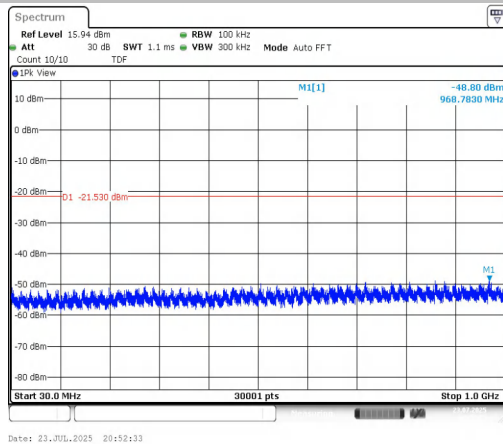
BLE_2M-Ant1-2440-0~Reference-PASS

BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS

BLE_2M-Ant1-2480-1000~26500-PASS



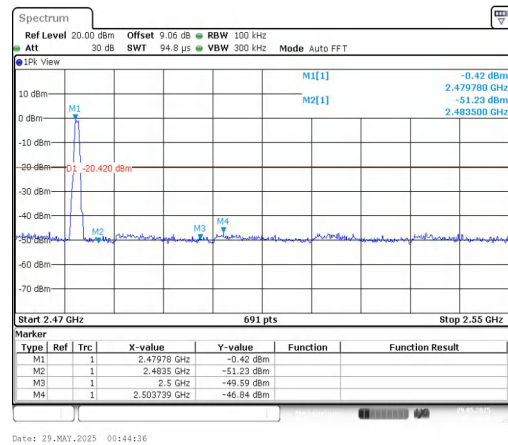
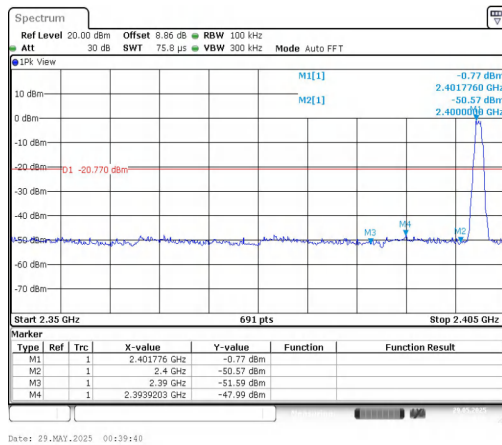
Appendix F: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.77	-47.99	≤ -20.77	PASS
BLE_1M	Ant1	High	2480	-0.42	-46.84	≤ -20.42	PASS
BLE_2M	Ant1	Low	2402	-0.89	-46.58	≤ -20.89	PASS
BLE_2M	Ant1	High	2480	-0.65	-46.47	≤ -20.65	PASS

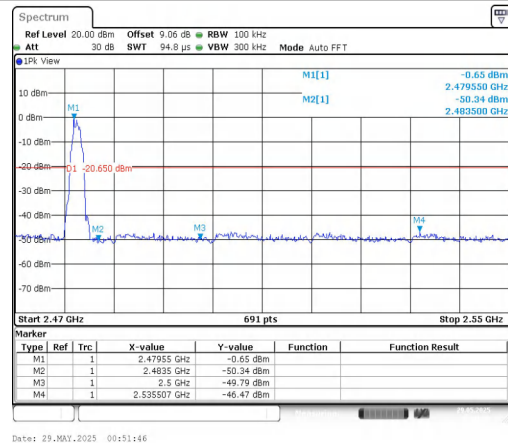
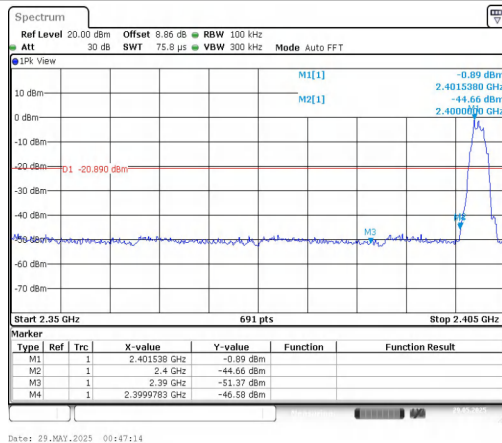


Test Graphs



BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

BLE_2M-Ant1-2480-PASS



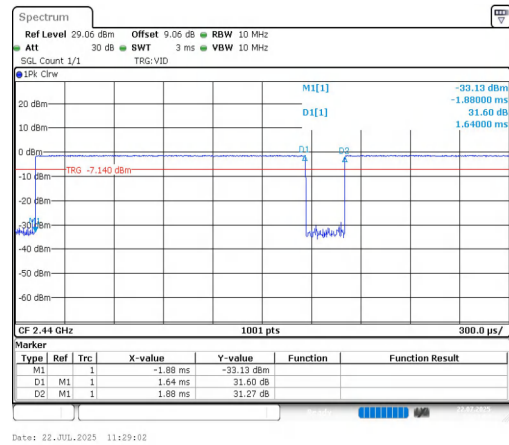
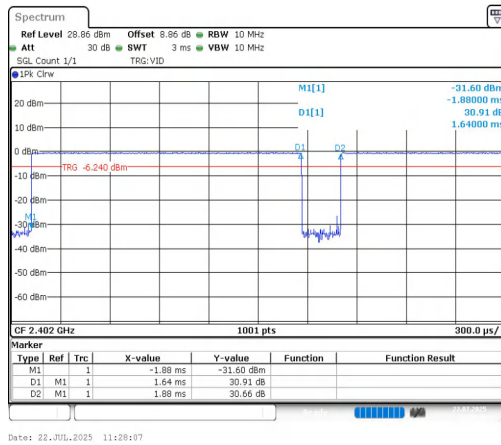
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	1.64	1.88	87.23
BLE_1M	Ant1	2440	1.64	1.88	87.23
BLE_1M	Ant1	2480	1.64	1.88	87.23
BLE_2M	Ant1	2402	0.83	1.25	66.40
BLE_2M	Ant1	2440	0.82	1.25	65.60
BLE_2M	Ant1	2480	0.83	1.25	66.40

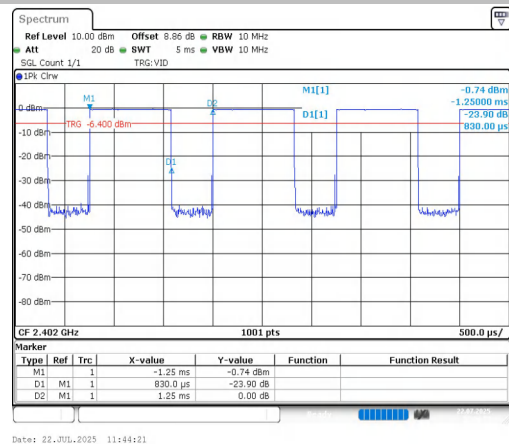
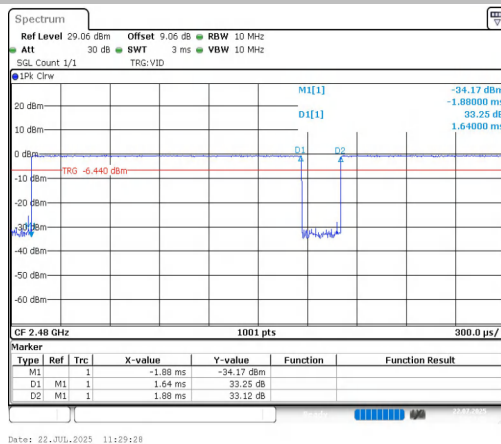


Test Graphs



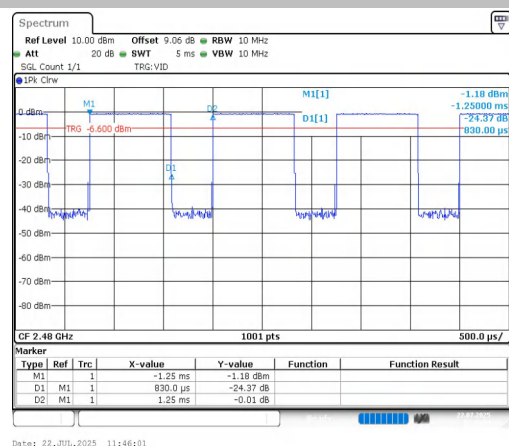
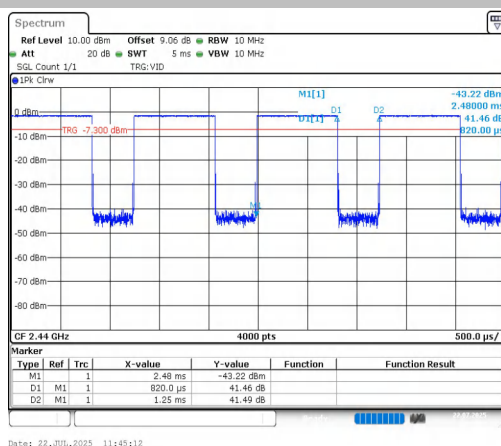
NTNV-BLE_1M-Ant1-2402

NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440

NTNV-BLE_2M-Ant1-2480

-----END-----