

FCC Appendix RF Test Data for BLE

FCC ID : 2BOHY-TR6R851P2C

Company : TRULY ELECTRONICS MFG., LTD

EUT : WIFI/BT Module+5G

Model Number : TR6R851P2-C

Report No. : CTA26070102801

Reviewed By : Eric Wang

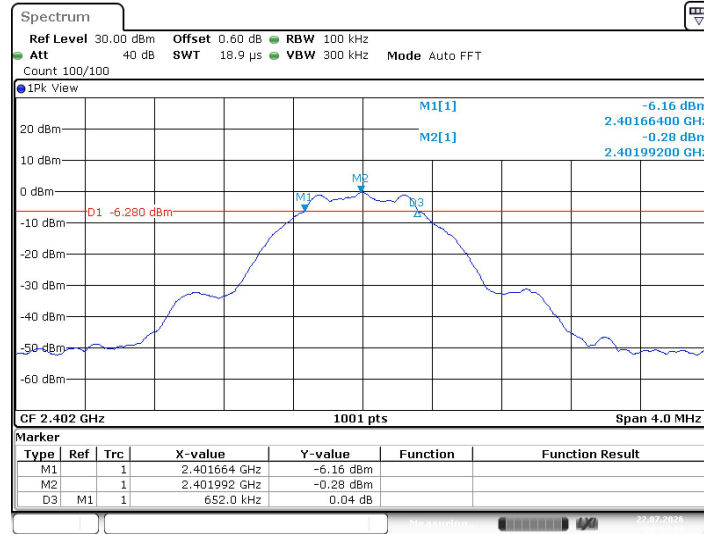
Appendix A: DTS Bandwidth

Test Result

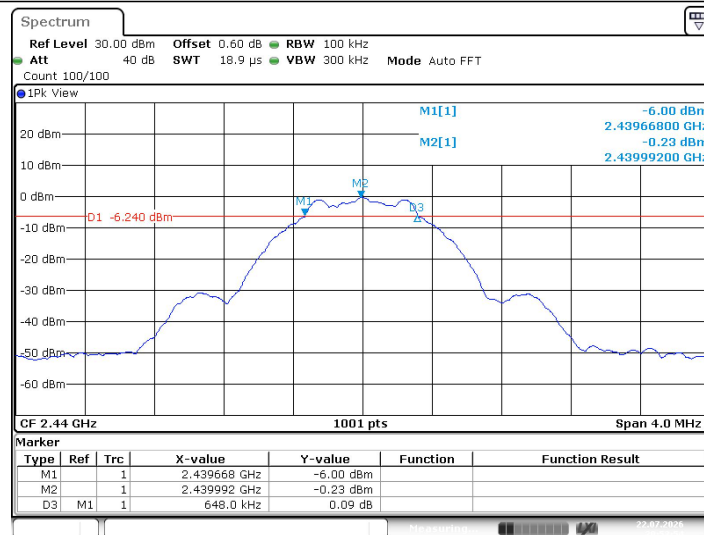
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.65	2401.66	2402.32	0.5	PASS
		2440	0.65	2439.67	2440.32	0.5	PASS
		2480	0.65	2479.66	2480.32	0.5	PASS
BLE_2M	Ant1	2404	0.95	2403.45	2404.40	0.5	PASS
		2440	1.12	2439.45	2440.57	0.5	PASS
		2478	1.12	2477.45	2478.56	0.5	PASS

Test Graphs

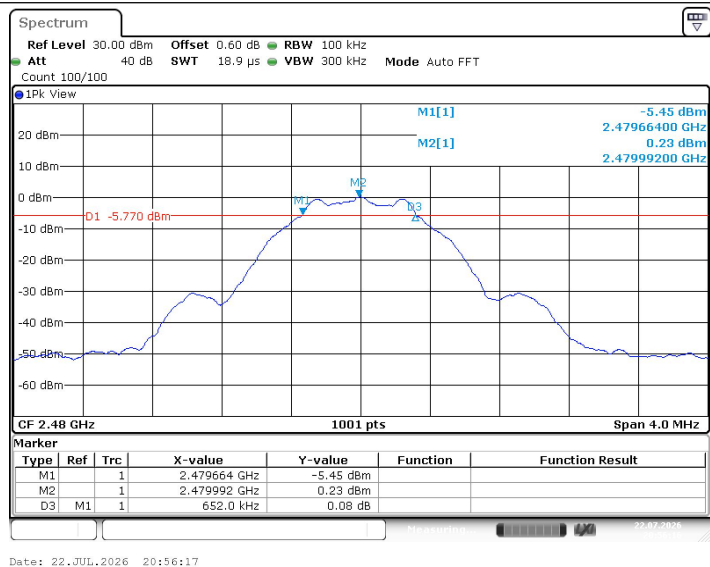
BLE_1M_Ant1_2402



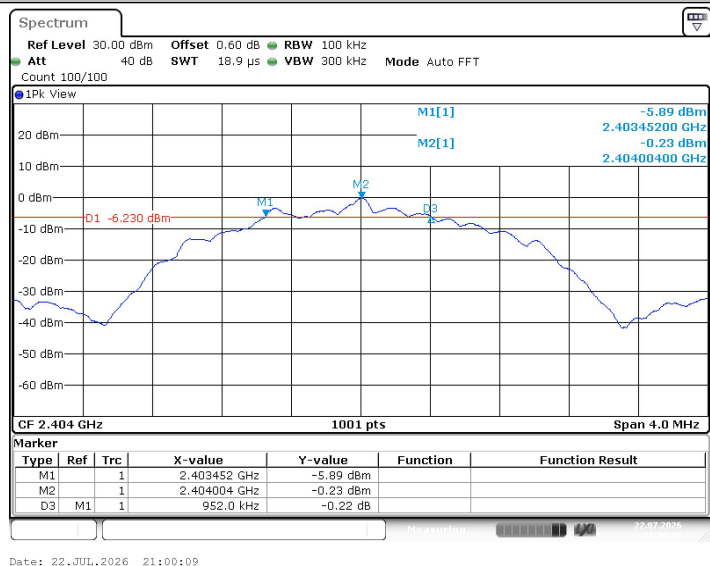
BLE_1M_Ant1_2440



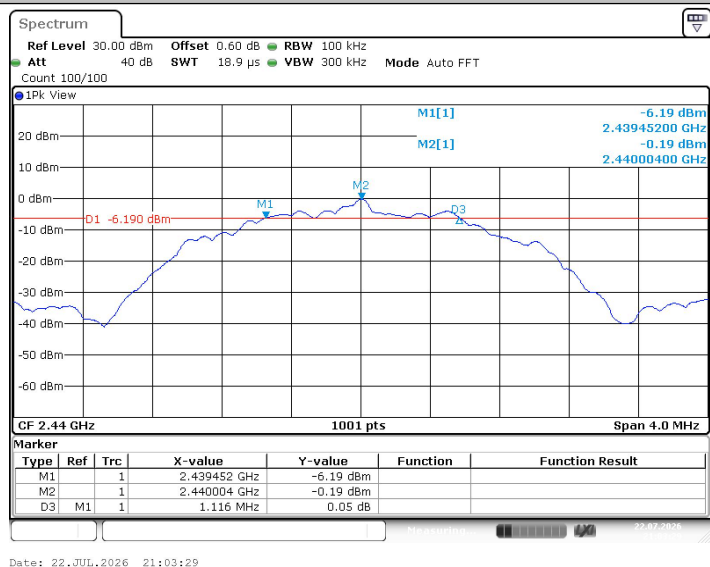
BLE_1M_Ant1_2480



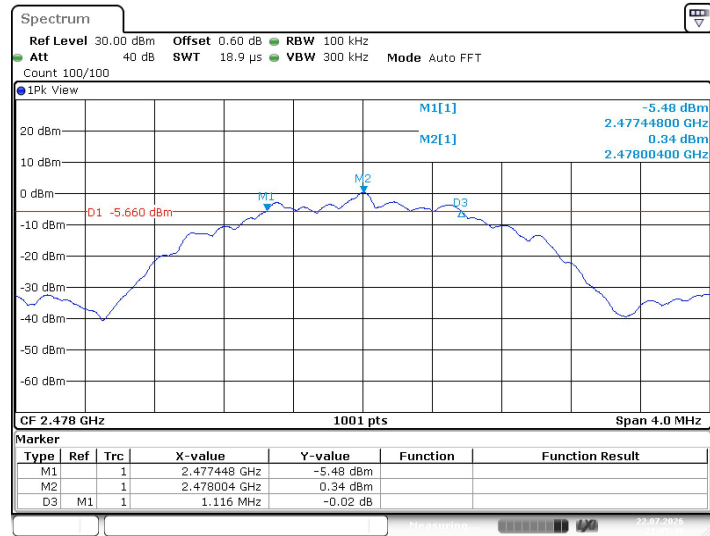
BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



BLE_2M_Ant1_2478



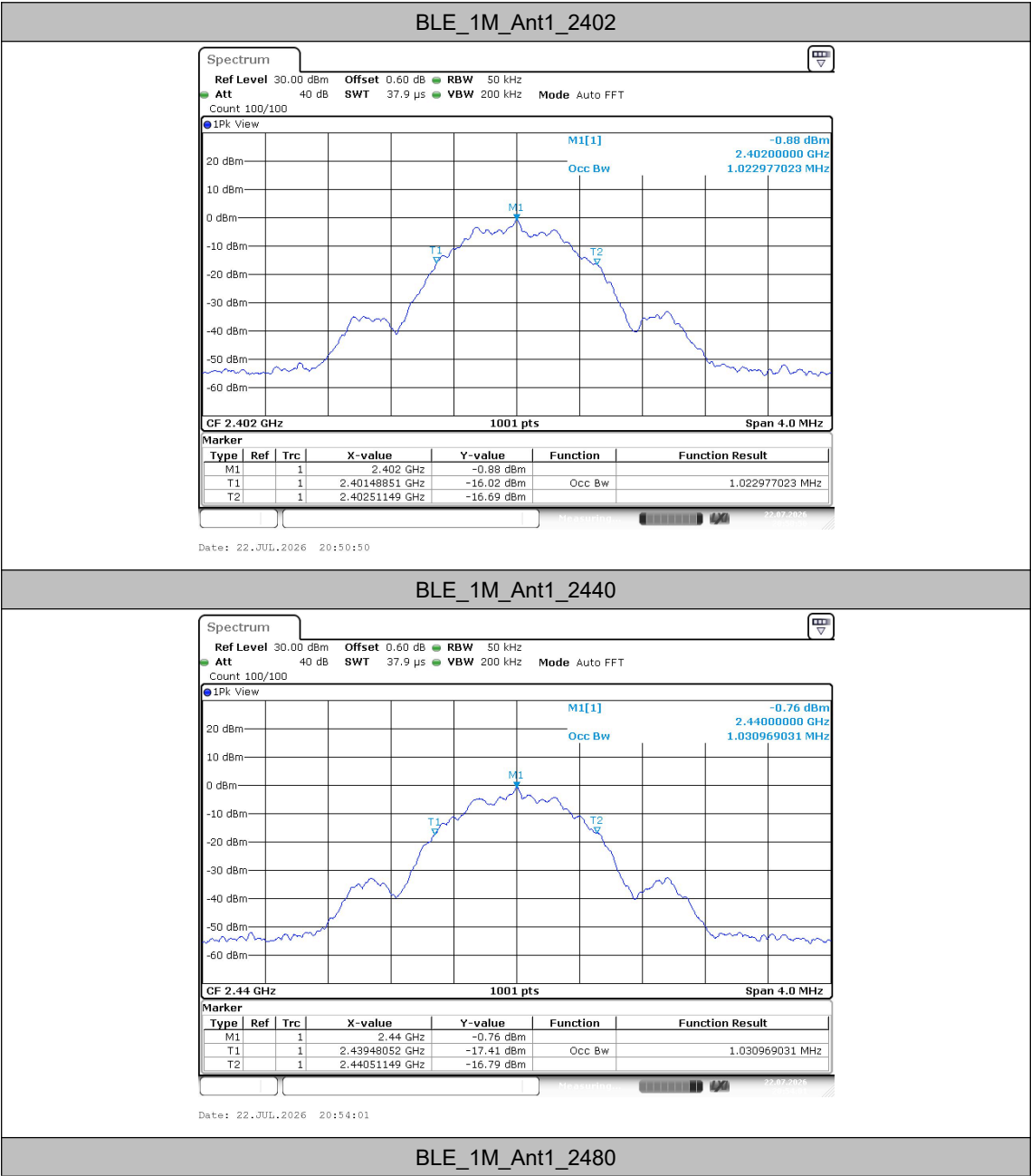
Date: 22.JUL.2026 21:05:48

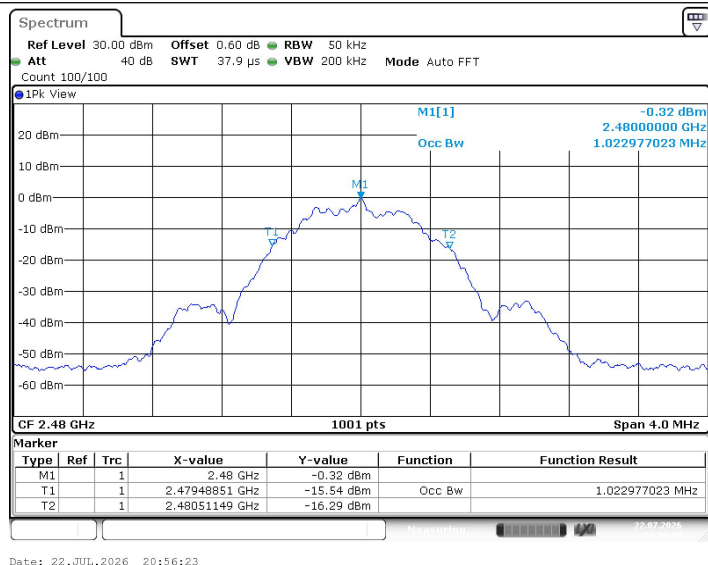
Appendix B: Occupied Channel Bandwidth

Test Result

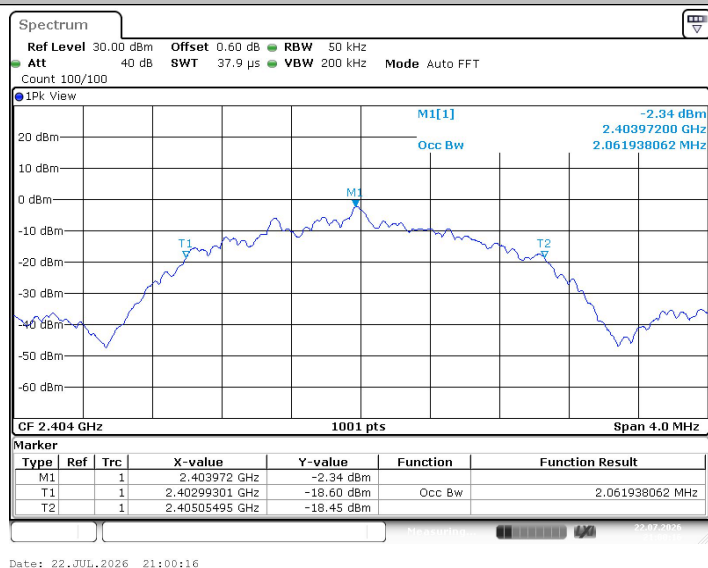
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0230	2401.4885	2402.5115	---	---
		2440	1.0310	2439.4805	2440.5115	---	---
		2480	1.0230	2479.4885	2480.5115	---	---
BLE_2M	Ant1	2404	2.0619	2402.9930	2405.0549	---	---
		2440	2.0579	2438.9930	2441.0509	---	---
		2478	2.0579	2476.9890	2479.0470	---	---

Test Graphs

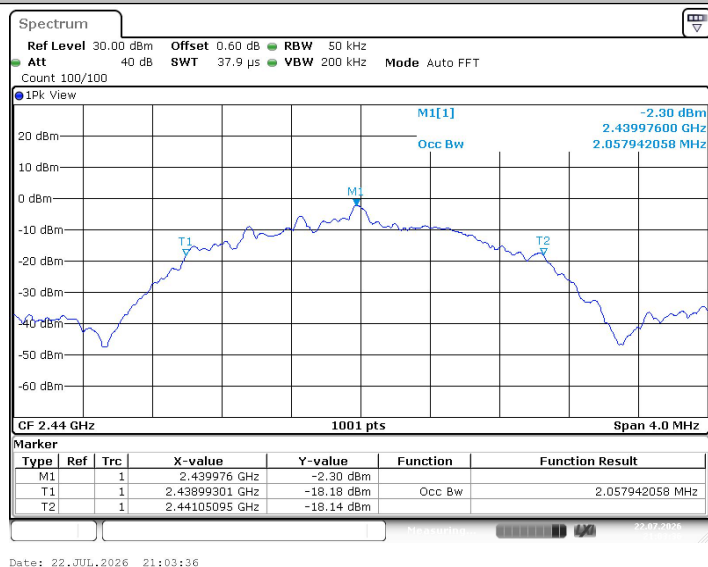




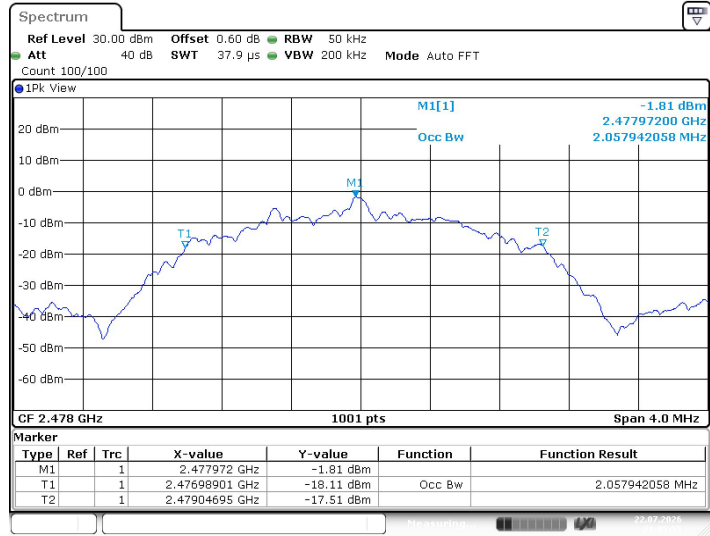
BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



BLE_2M_Ant1_2478



Date: 22.JUL.2026 21:05:55

Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.18	≤30	PASS
		2440	-0.09	≤30	PASS
		2480	0.41	≤30	PASS
BLE_2M	Ant1	2404	-0.03	≤30	PASS
		2440	0.03	≤30	PASS
		2478	0.52	≤30	PASS

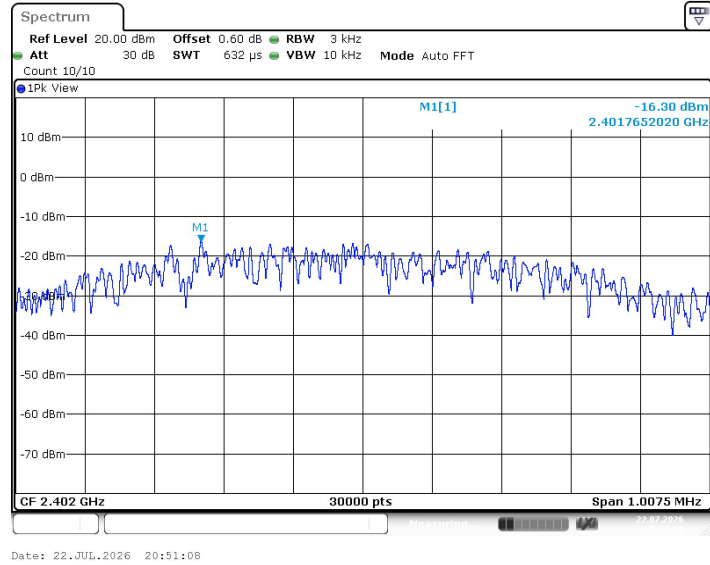
Appendix D: Maximum power spectral density

Test Result

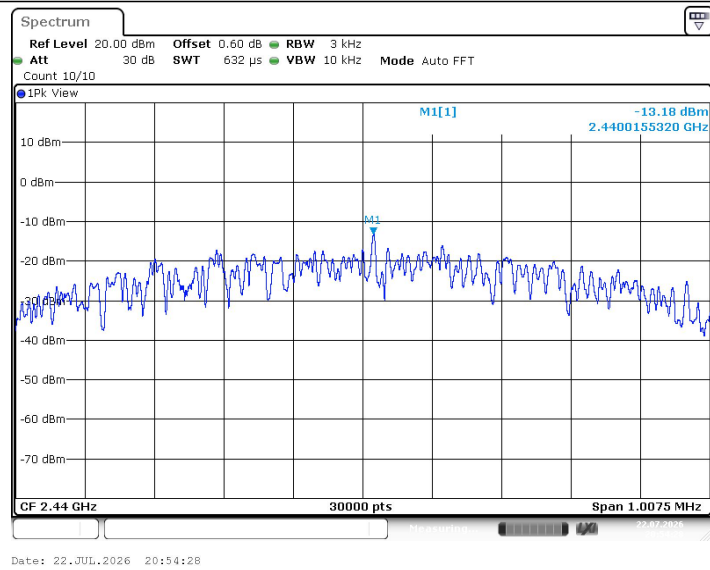
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.30	≤8.00	PASS
		2440	-13.18	≤8.00	PASS
		2480	-15.20	≤8.00	PASS
BLE_2M	Ant1	2404	-17.83	≤8.00	PASS
		2440	-18.45	≤8.00	PASS
		2478	-16.66	≤8.00	PASS

Test Graphs

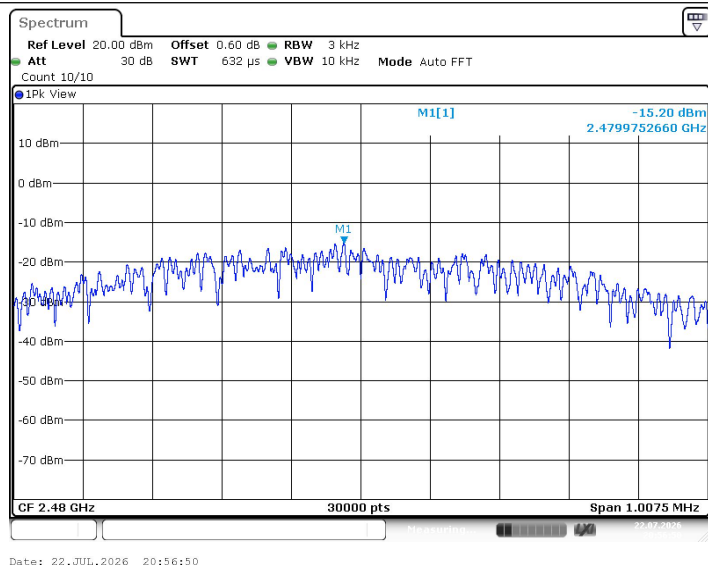
BLE_1M_Ant1_2402



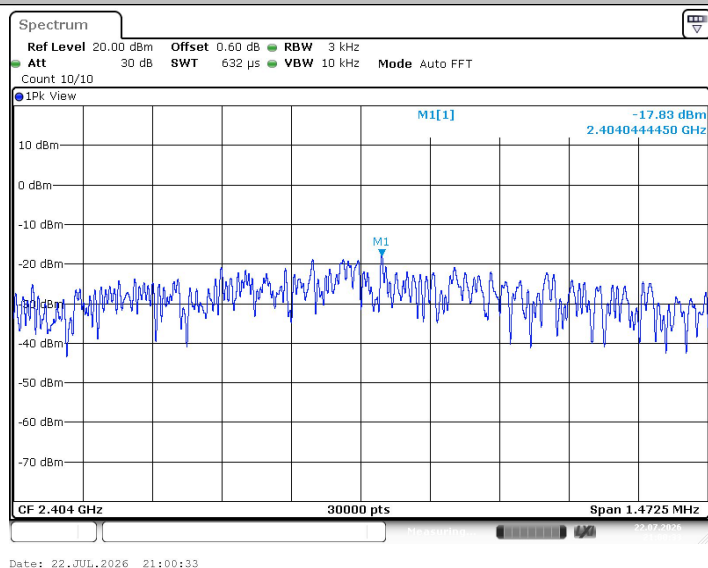
BLE_1M_Ant1_2440



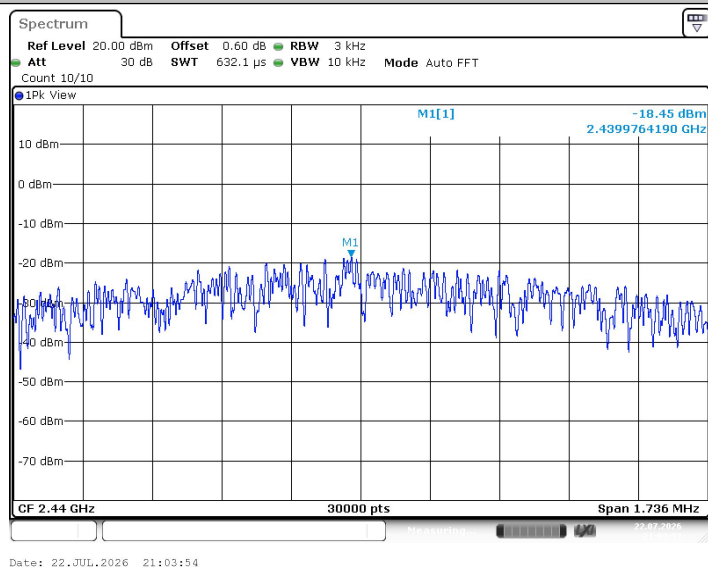
BLE_1M_Ant1_2480



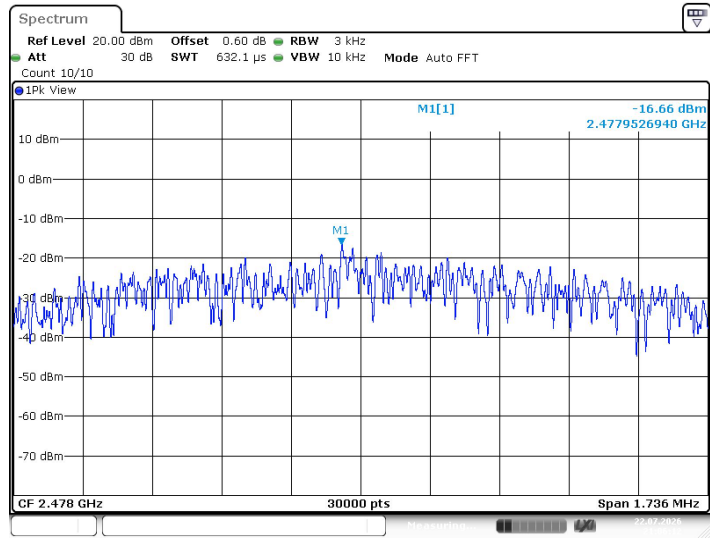
BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



BLE_2M_Ant1_2478



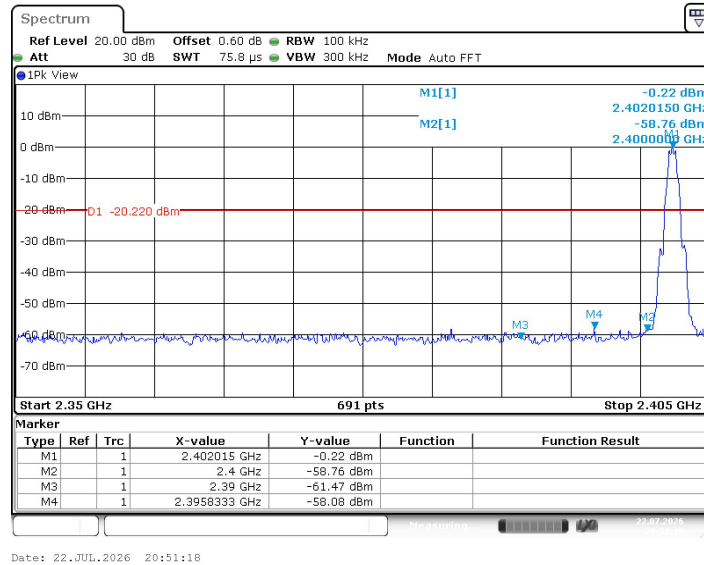
Appendix E: Band edge measurements

Test Result

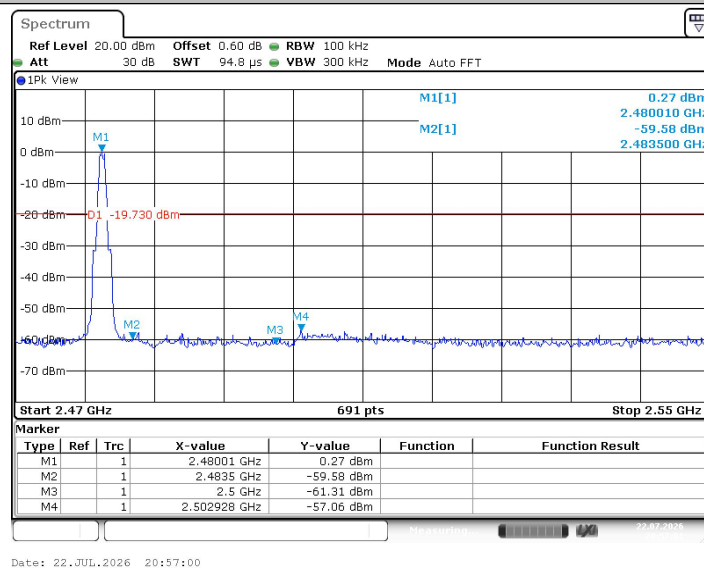
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.22	-58.08	≤-20.22	PASS
		High	2480	0.27	-57.06	≤-19.73	PASS
BLE_2M	Ant1	Low	2404	-0.32	-57.48	≤-20.32	PASS
		High	2478	0.28	-57.35	≤-19.72	PASS

Test Graphs

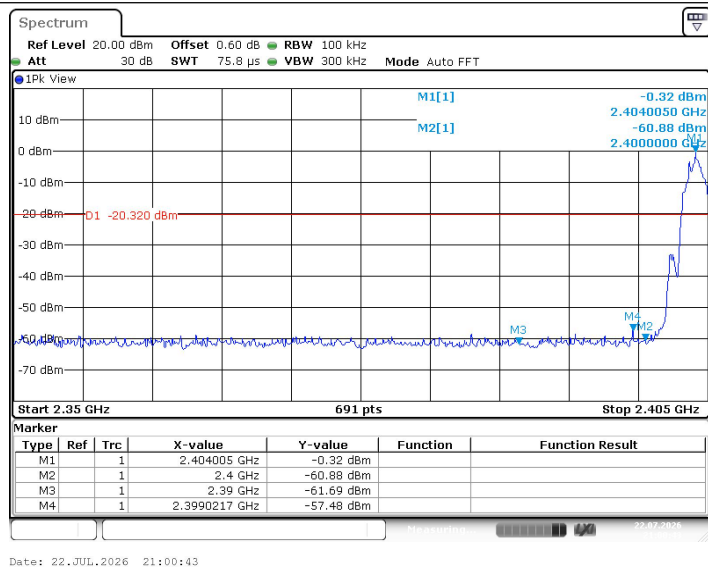
BLE_1M_Ant1_Low_2402



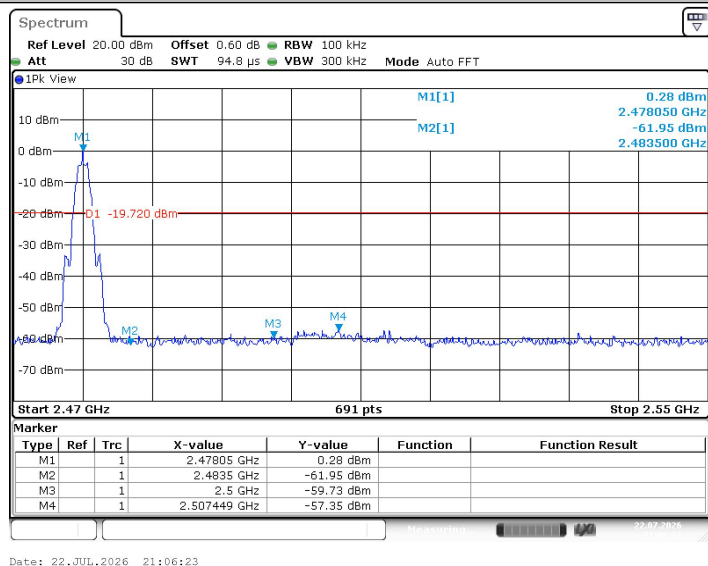
BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2404



BLE_2M_Ant1_High_2478

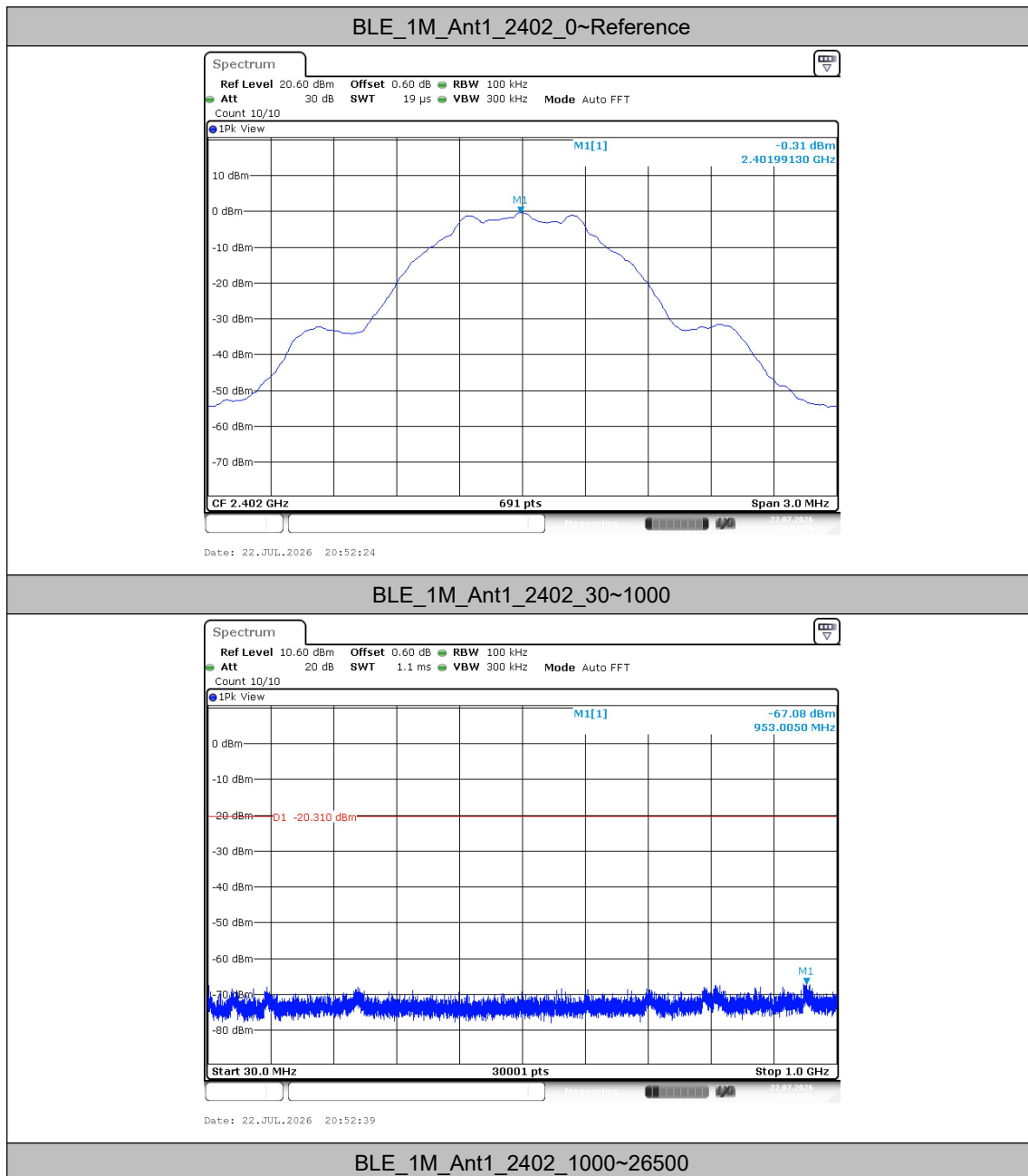


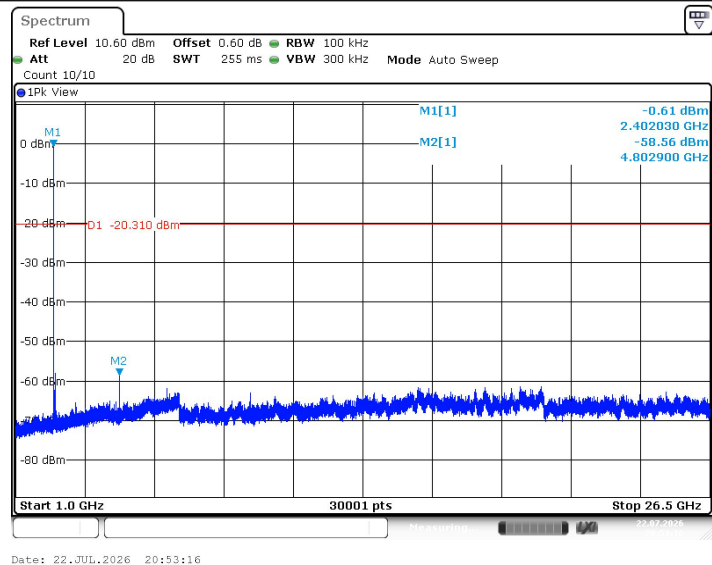
Appendix F: Conducted Spurious Emission

Test Result

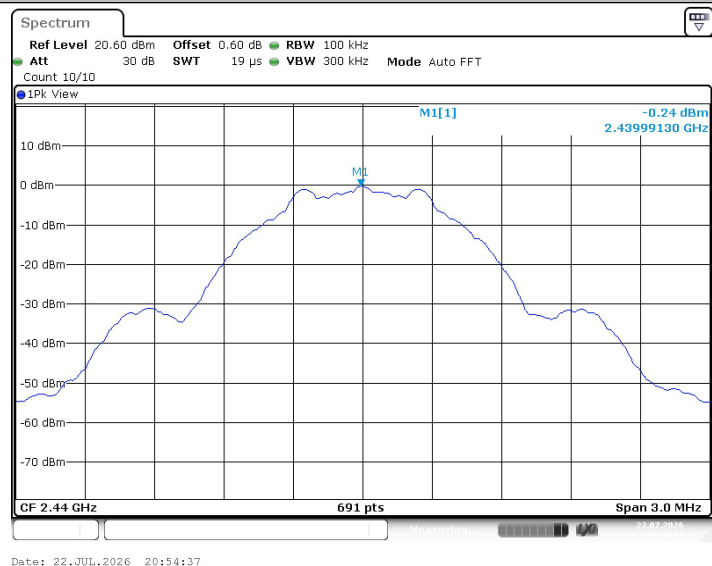
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.31	-0.31	---	PASS
			30~1000	-0.31	-67.08	≤-20.31	PASS
			1000~26500	-0.31	-58.56	≤-20.31	PASS
		2440	Reference	-0.24	-0.24	---	PASS
			30~1000	-0.24	-66.39	≤-20.24	PASS
			1000~26500	-0.24	-57.33	≤-20.24	PASS
		2480	Reference	0.26	0.26	---	PASS
			30~1000	0.26	-66.34	≤-19.74	PASS
			1000~26500	0.26	-56.31	≤-19.74	PASS
BLE_2M	Ant1	2404	Reference	-0.26	-0.26	---	PASS
			30~1000	-0.26	-66.51	≤-20.26	PASS
			1000~26500	-0.26	-59.44	≤-20.26	PASS
		2440	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-65.73	≤-20.23	PASS
			1000~26500	-0.23	-59.31	≤-20.23	PASS
		2478	Reference	0.37	0.37	---	PASS
			30~1000	0.37	-66.74	≤-19.63	PASS
			1000~26500	0.37	-58.03	≤-19.63	PASS

Test Graphs





BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

