

Appendix Report

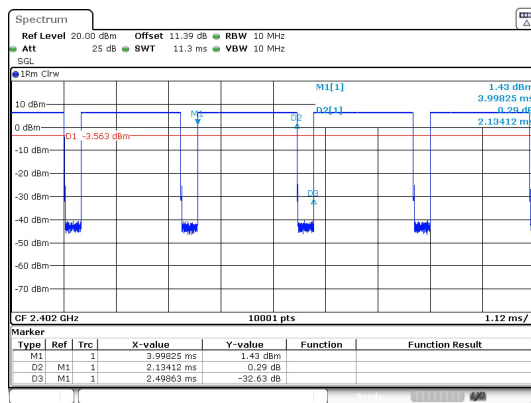
Project No.:	CISR250416179
Test Engineer:	James Wang
Supervised by:	Rory Huang

1) Duty Cycle

Test Result

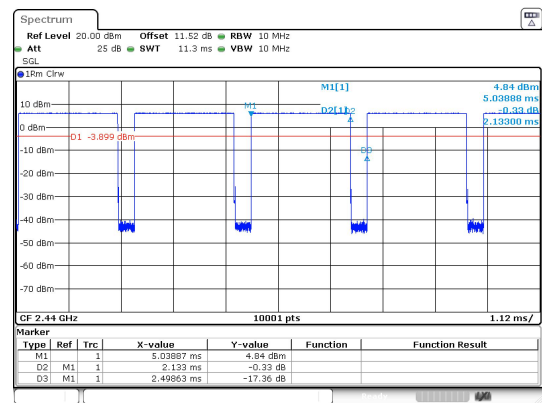
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.134	2.499	85.41	0.8541	0.6849	0.4686
	19	2.133	2.499	85.37	0.8537	0.6869	0.4688
	39	2.133	2.499	85.37	0.8537	0.6869	0.4688

Test Graphs



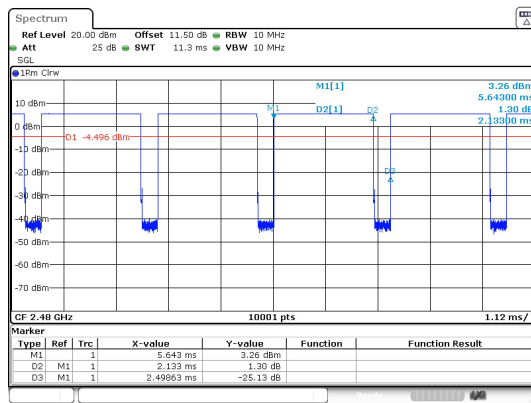
Date: 18.APR.2025 20:25:59

BLE 1M_Channel 0



Date: 18.APR.2025 20:28:48

BLE 1M_Channel 19



Date: 18.APR.2025 20:31:19

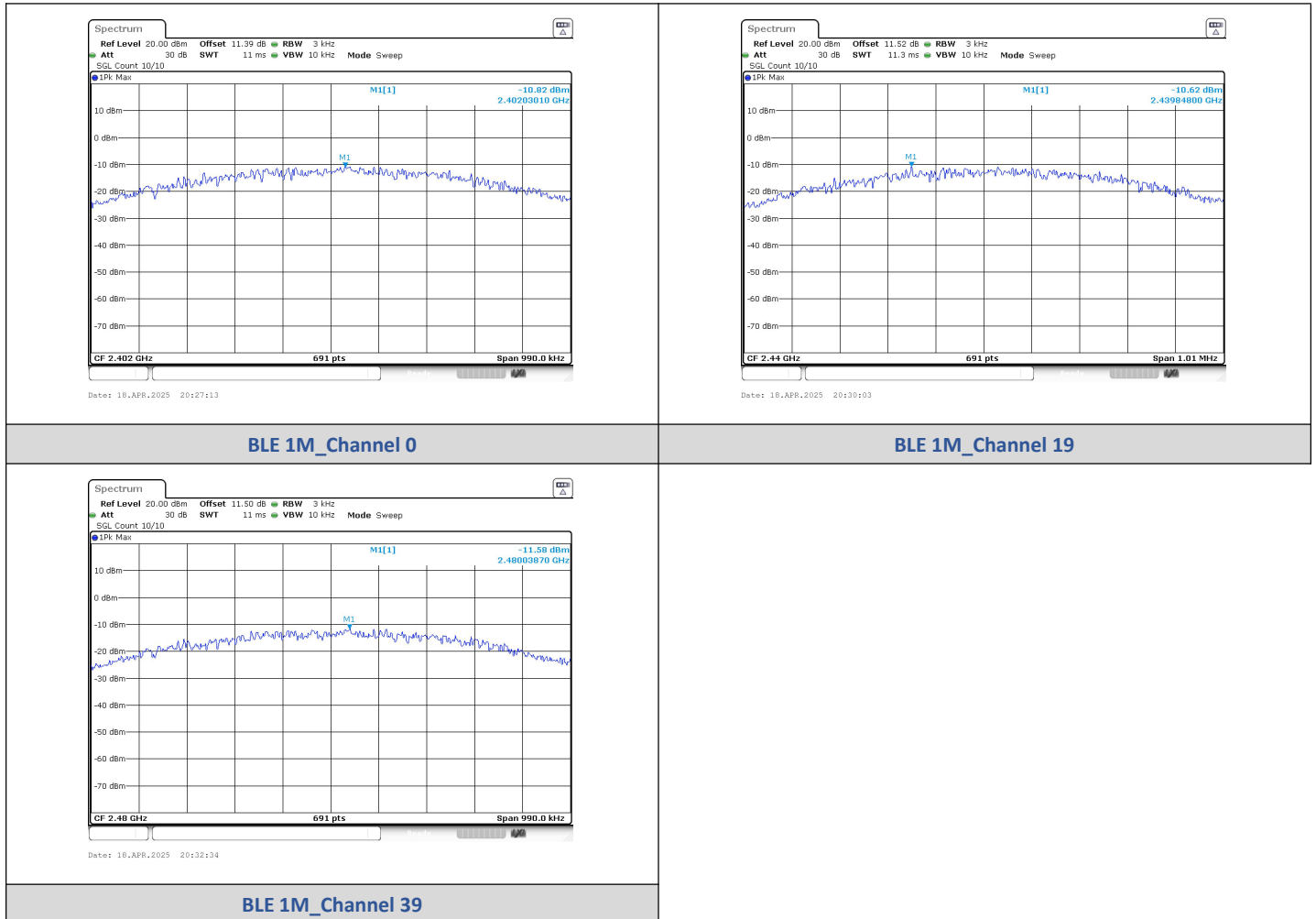
BLE 1M_Channel 39

2) Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-10.820	≤8	PASS
BLE 1M	19	-10.620	≤8	PASS
BLE 1M	39	-11.580	≤8	PASS

Test Graphs

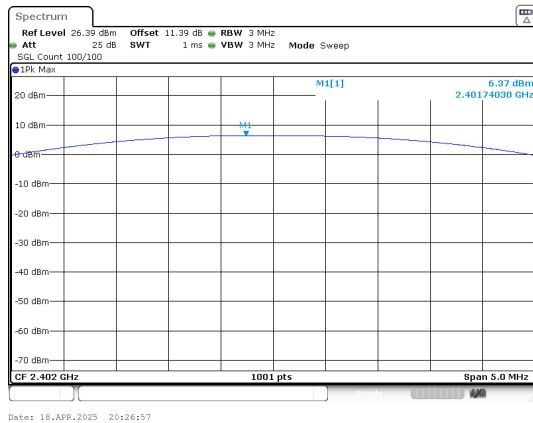


3) Conducted Output Power

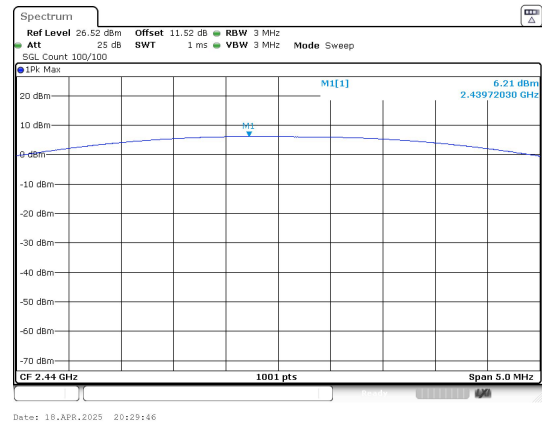
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	6.37	4.34	≤30	PASS
	19	6.21	4.18	≤30	PASS
	39	5.55	3.59	≤30	PASS

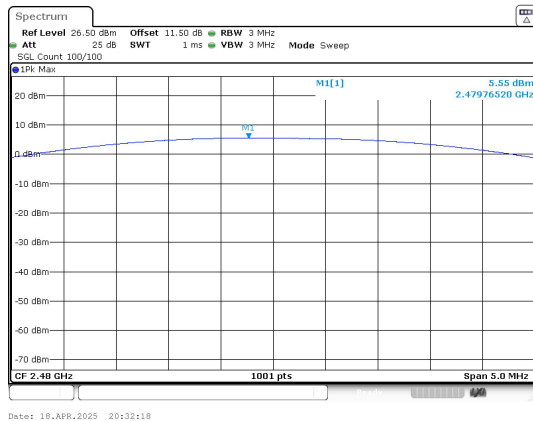
Test Graphs



Peak Output Power
BLE 1M_Channel 0



Peak Output Power
BLE 1M_Channel 19



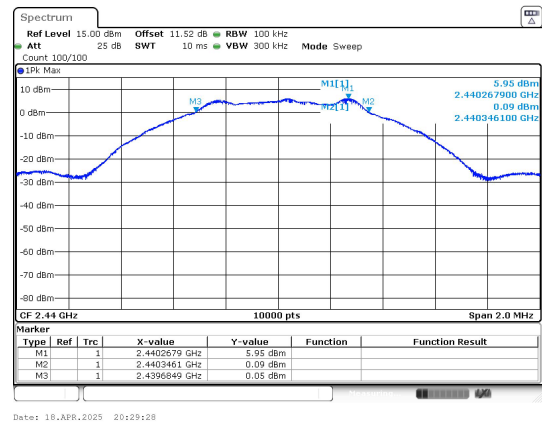
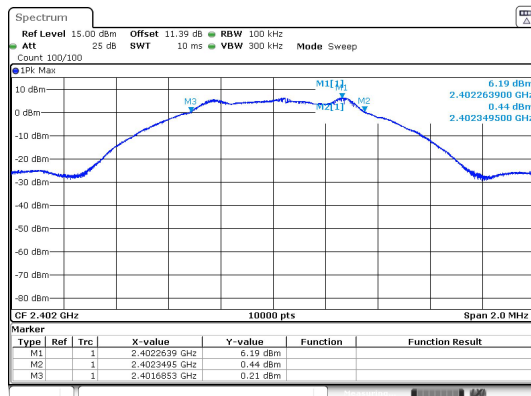
Peak Output Power
BLE 1M_Channel 39

4) 6dB Bandwidth

Test Result

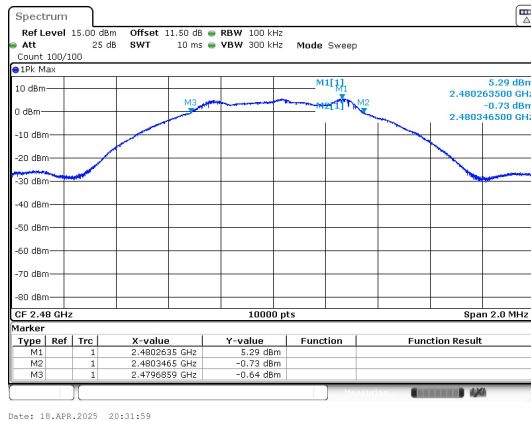
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6700		PASS
	39	2480	0.6600		PASS

Test Graphs



BLE 1M_Channel 0

BLE 1M_Channel 19



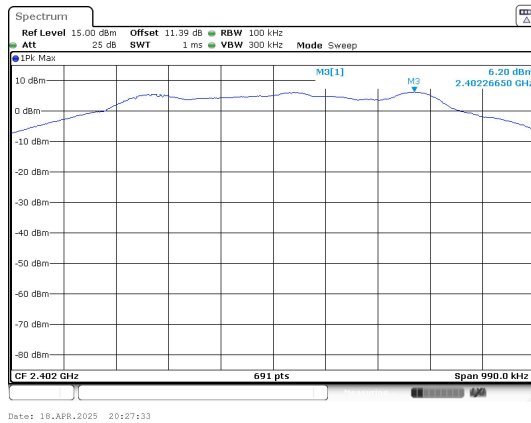
BLE 1M_Channel 39

5) Conducted Out Of Band Emission

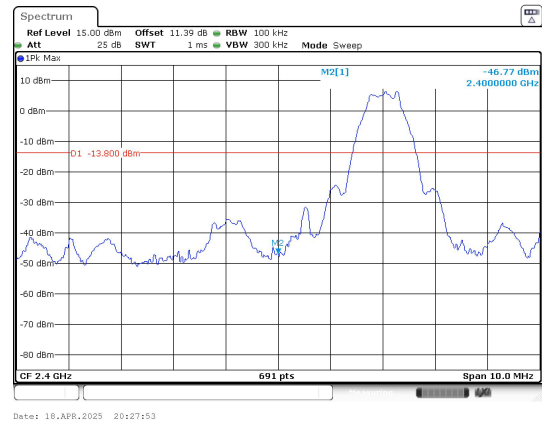
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-36.469	-13.8	-22.669	PASS
		2400.00	-46.770	-13.8	-32.970	PASS
		7206.80	-37.746	-13.8	-23.946	PASS
	19	9753.73	-39.549	-14.05	-25.499	PASS
	39	2483.50	-45.030	-14.72	-30.310	PASS
		9914.37	-37.094	-14.72	-22.374	PASS

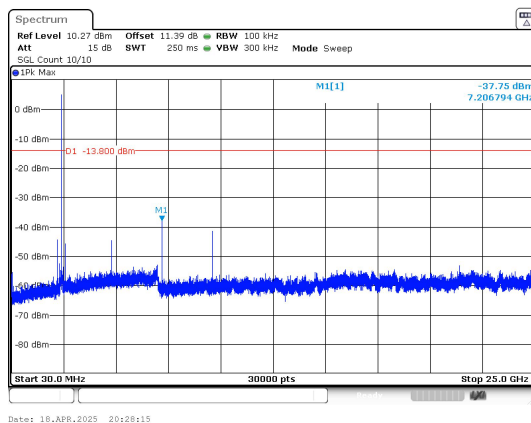
Test Graphs



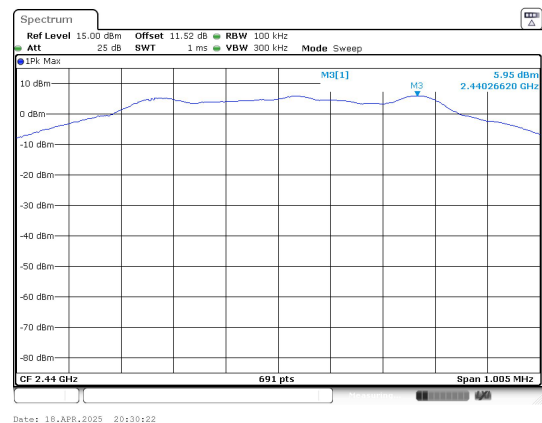
In-Band Reference Level
BLE 1M_Channel 0



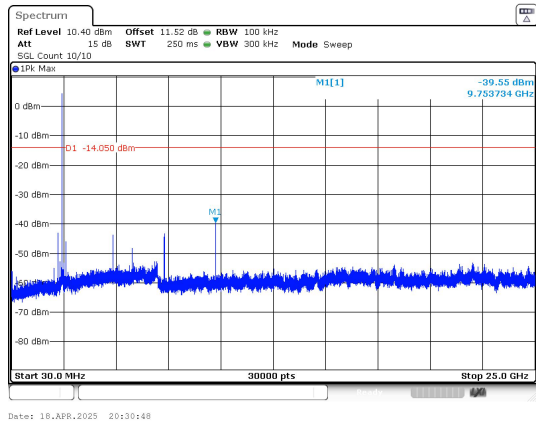
Out Of Band Emission
BLE 1M_Channel 0



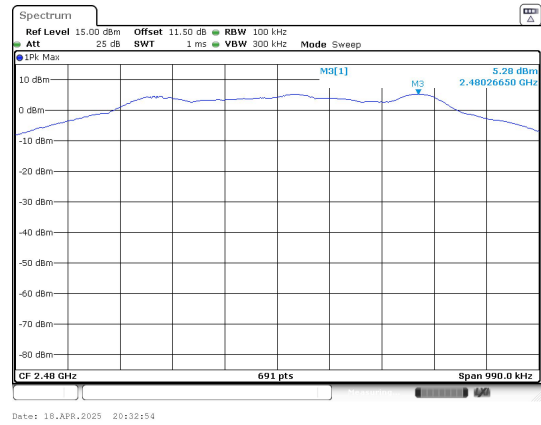
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



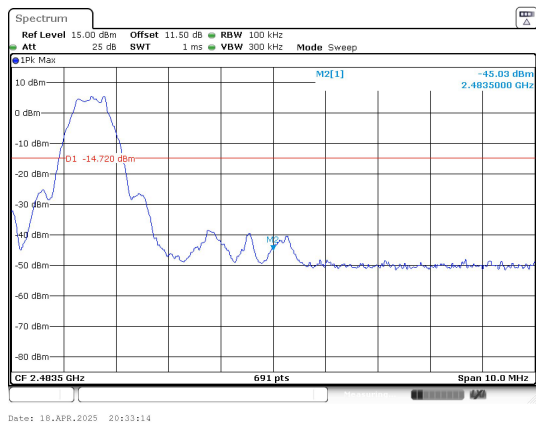
In-Band Reference Level
BLE 1M_Channel 19



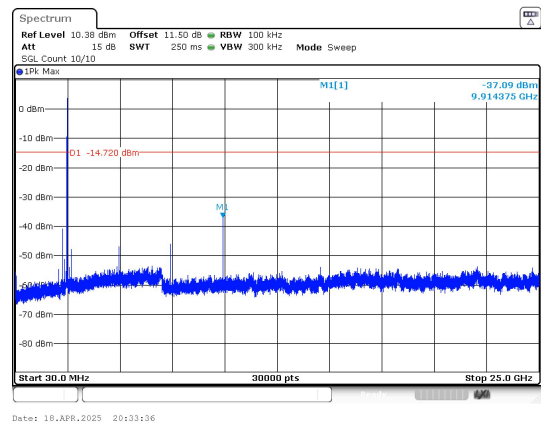
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



In-Band Reference Level
BLE 1M_Channel 39



Out Of Band Emission
BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39

-----End of the report-----