Appendix Report

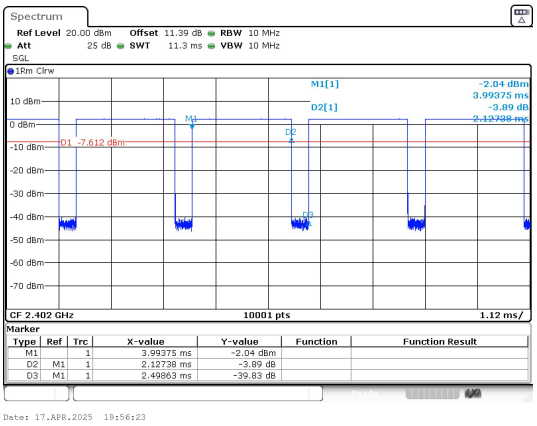
Project No.:	CISR250416150
Test Engineer:	James Wang
Supervised by:	Rory Huang

1) Duty Cycle

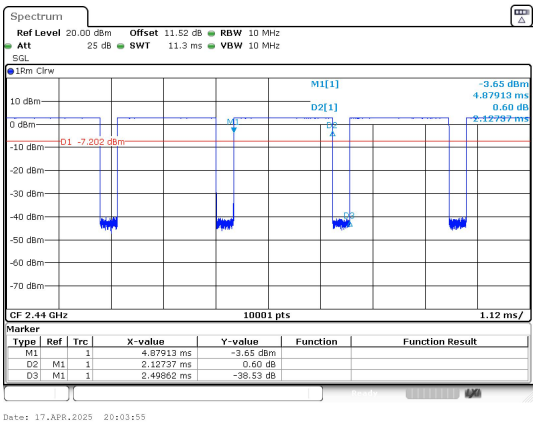
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.127	2.499	85.14	0.8514	0.6987	0.4701
	19	2.127	2.499	85.14	0.8514	0.6987	0.4701
	39	2.127	2.499	85.14	0.8514	0.6987	0.4701

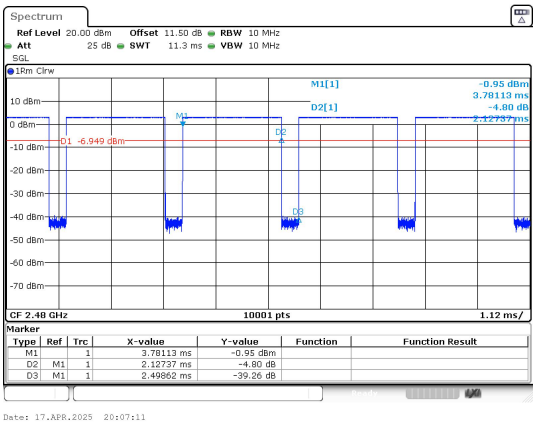
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



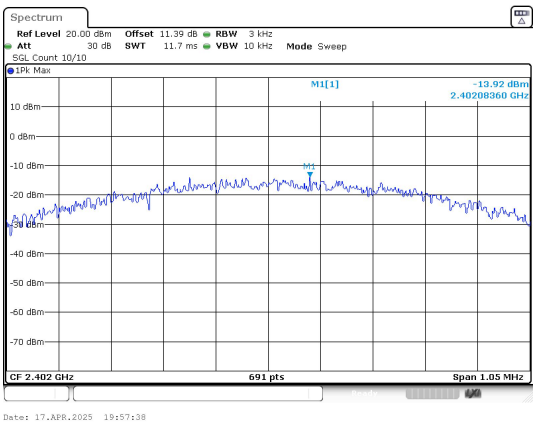
BLE 1M_Channel 39

2) Power Spectral Density

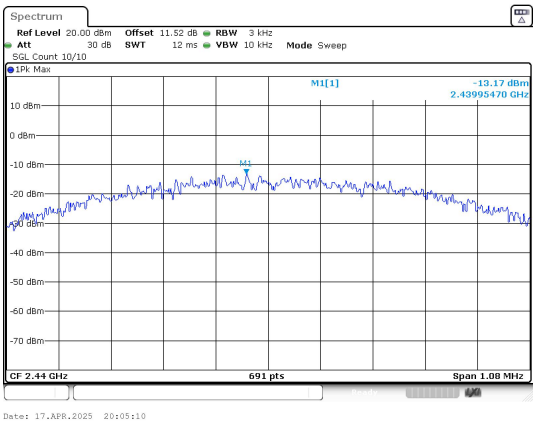
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-13.920	≤8	PASS
BLE 1M	19	-13.170	≤8	PASS
BLE 1M	39	-13.560	≤8	PASS

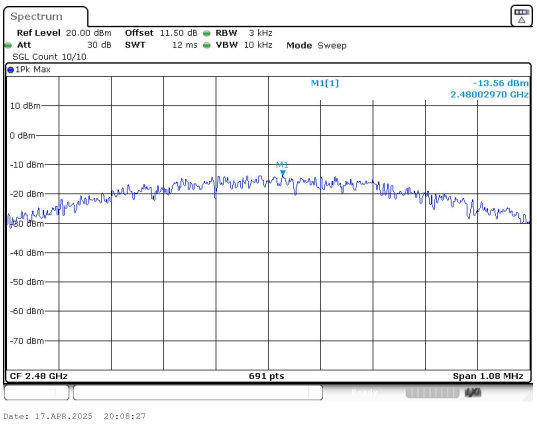
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



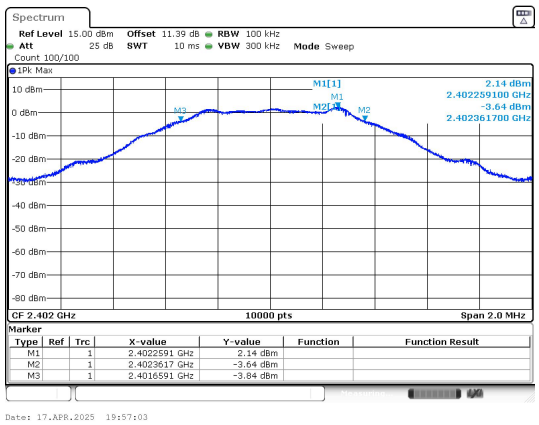
BLE 1M_Channel 39

3) 6dB Bandwidth

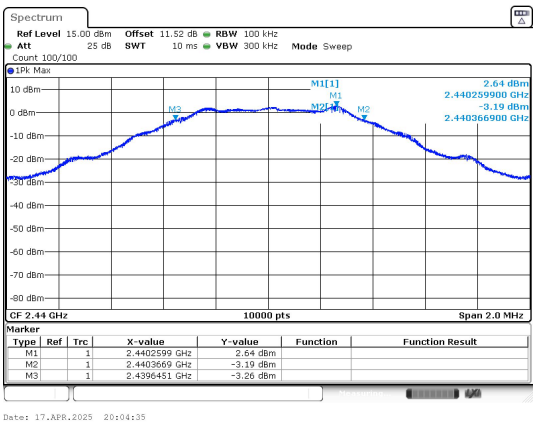
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.7000	≥0.5	PASS
	19	2440	0.7200		PASS
	39	2480	0.7200		PASS

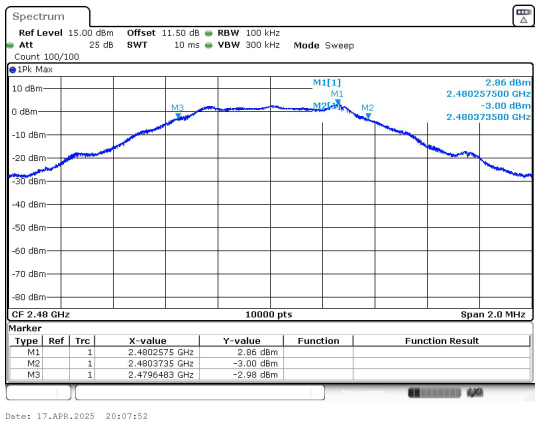
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



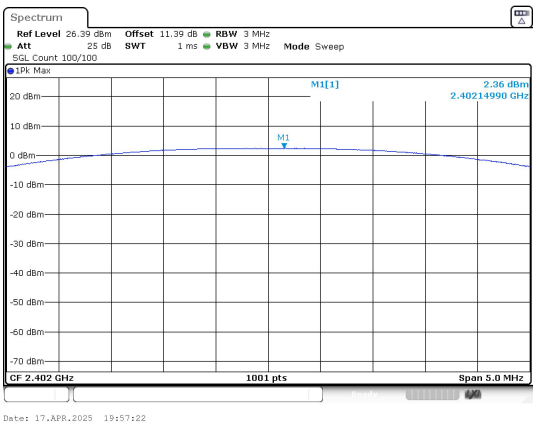
BLE 1M_Channel 39

4) Conducted Output Power

Test Result

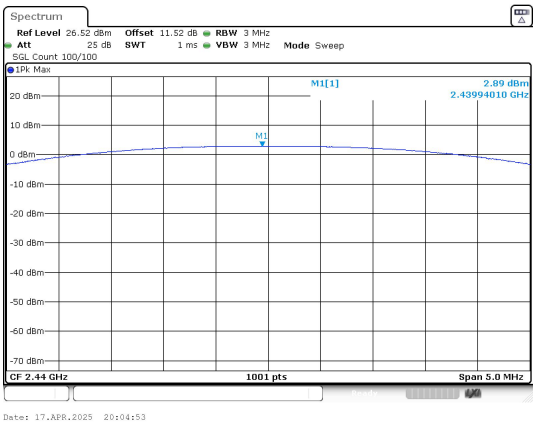
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.36	1.72	≤30	PASS
	19	2.89	1.95	≤30	PASS
	39	3.09	2.04	≤30	PASS

Test Graphs



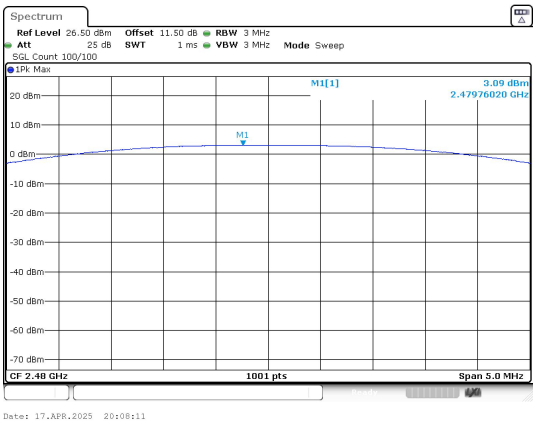
Peak Output Power

BLE 1M_Channel 0



Peak Output Power

BLE 1M_Channel 19



Peak Output Power

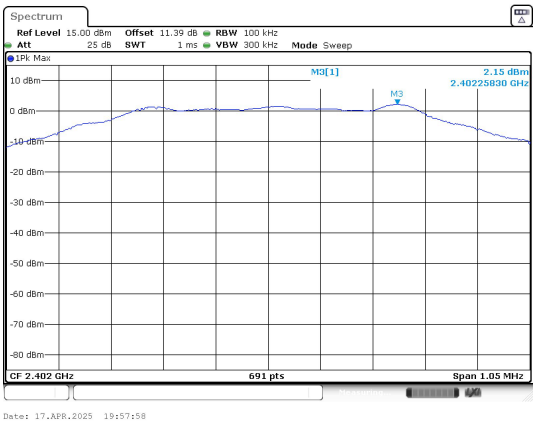
BLE 1M_Channel 39

5) Conducted Out Of Band Emission

Test Result

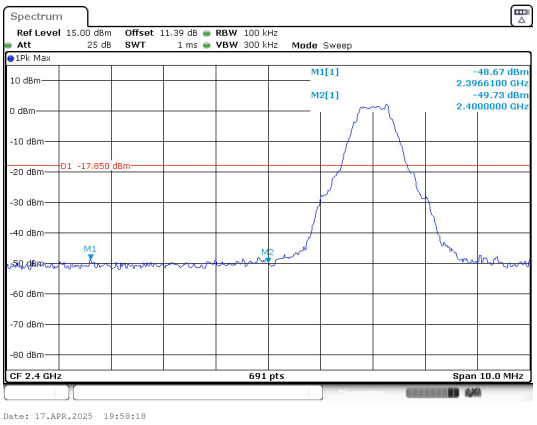
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2396.61	-48.671	-17.85	-30.821	PASS
		2400.00	-49.730	-17.85	-31.880	PASS
		9608.10	-42.622	-17.85	-24.772	PASS
	19	9760.39	-43.934	-17.42	-26.514	PASS
	39	2483.50	-49.090	-17.14	-31.950	PASS
		9920.20	-44.839	-17.14	-27.699	PASS

Test Graphs



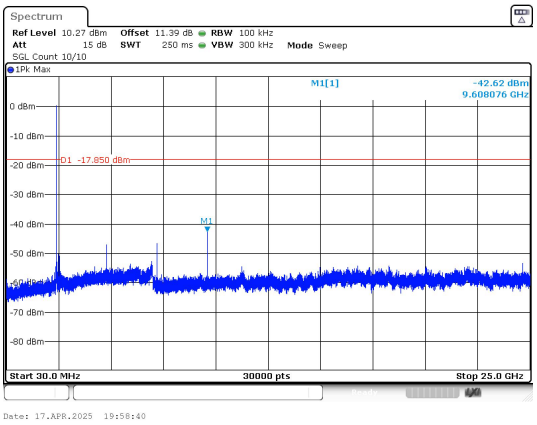
In-Band Reference Level

BLE 1M_Channel 0



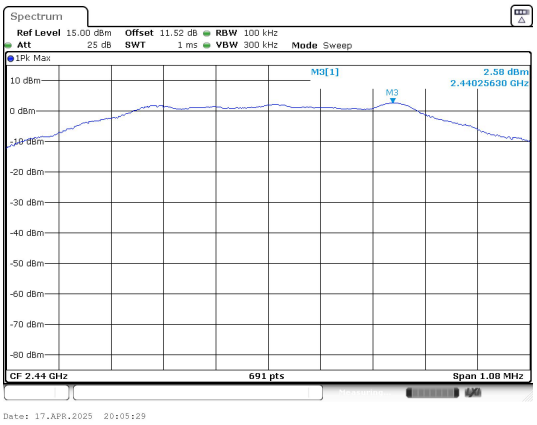
Out Of Band Emission

BLE 1M_Channel 0



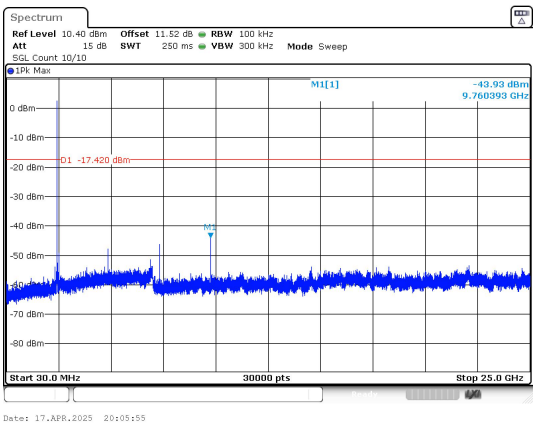
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 0



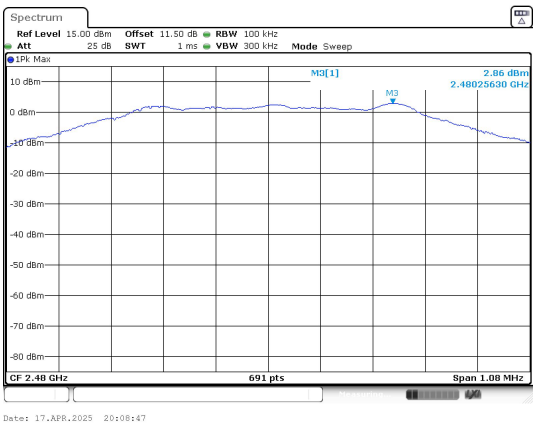
In-Band Reference Level

BLE 1M_Channel 19



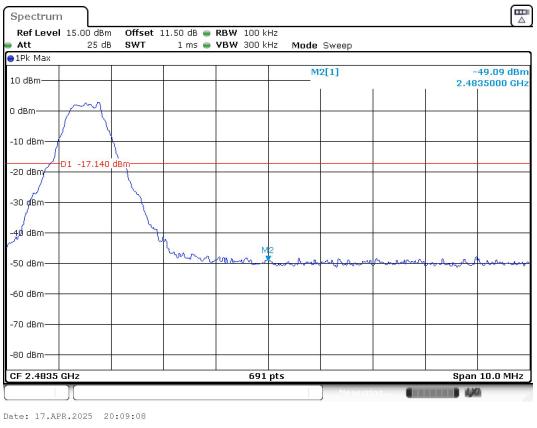
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 19



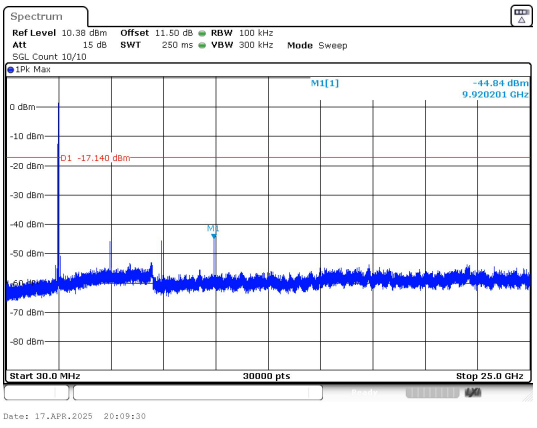
In-Band Reference Level

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-----