Appendix Report

Project No.:	CISR250519101
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	2.500	85.33	0.8533	0.689	0.4688

Test Graphs

BLE 1M_Channel 0

BLE 1M_Channel 19

BLE 1M_Channel 39
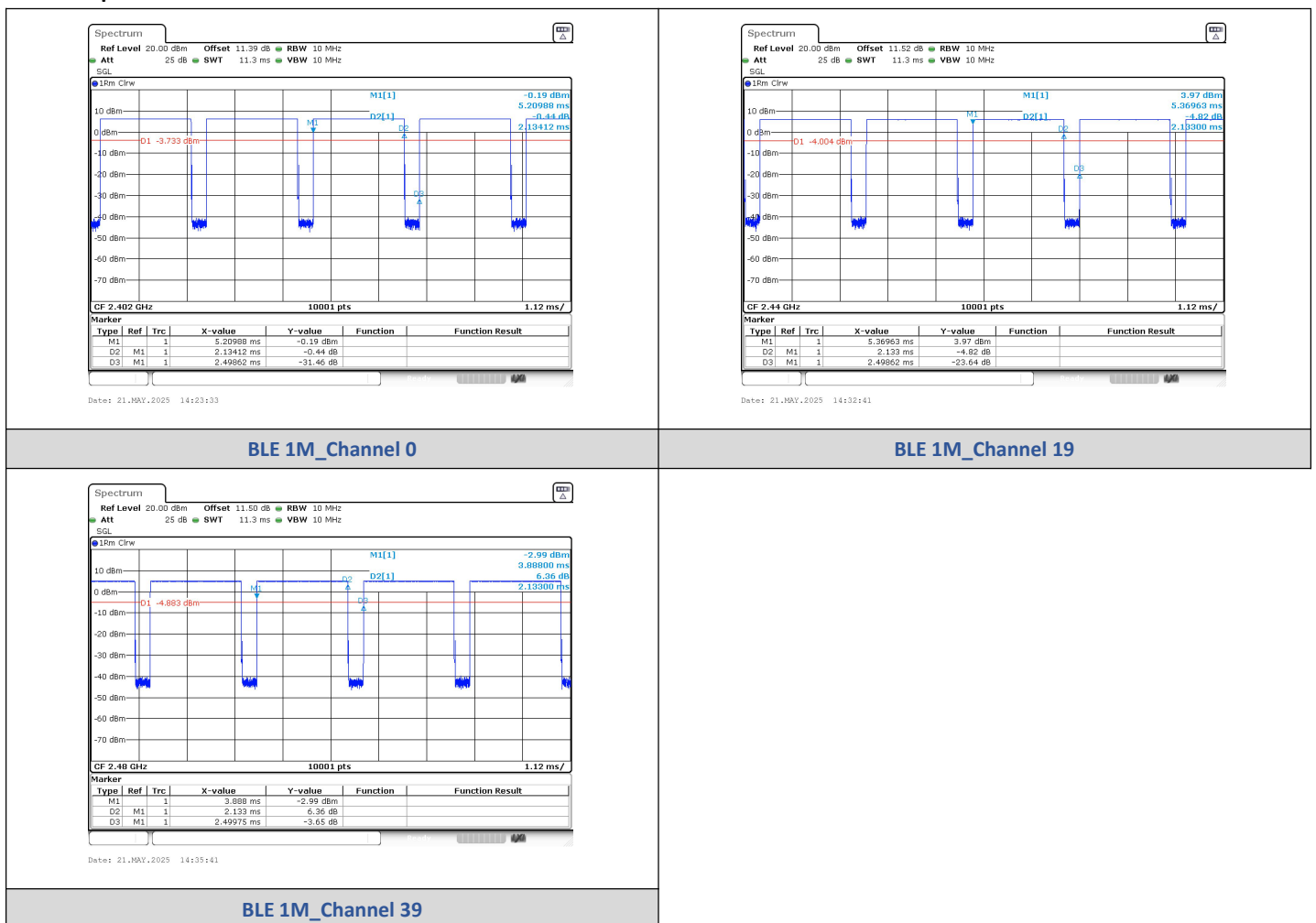
2) Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-15.860	≤8	PASS
BLE 1M	19	-16.210	≤8	PASS
BLE 1M	39	-17.200	≤8	PASS

Test Graphs

BLE 1M_Channel 0

BLE 1M_Channel 19
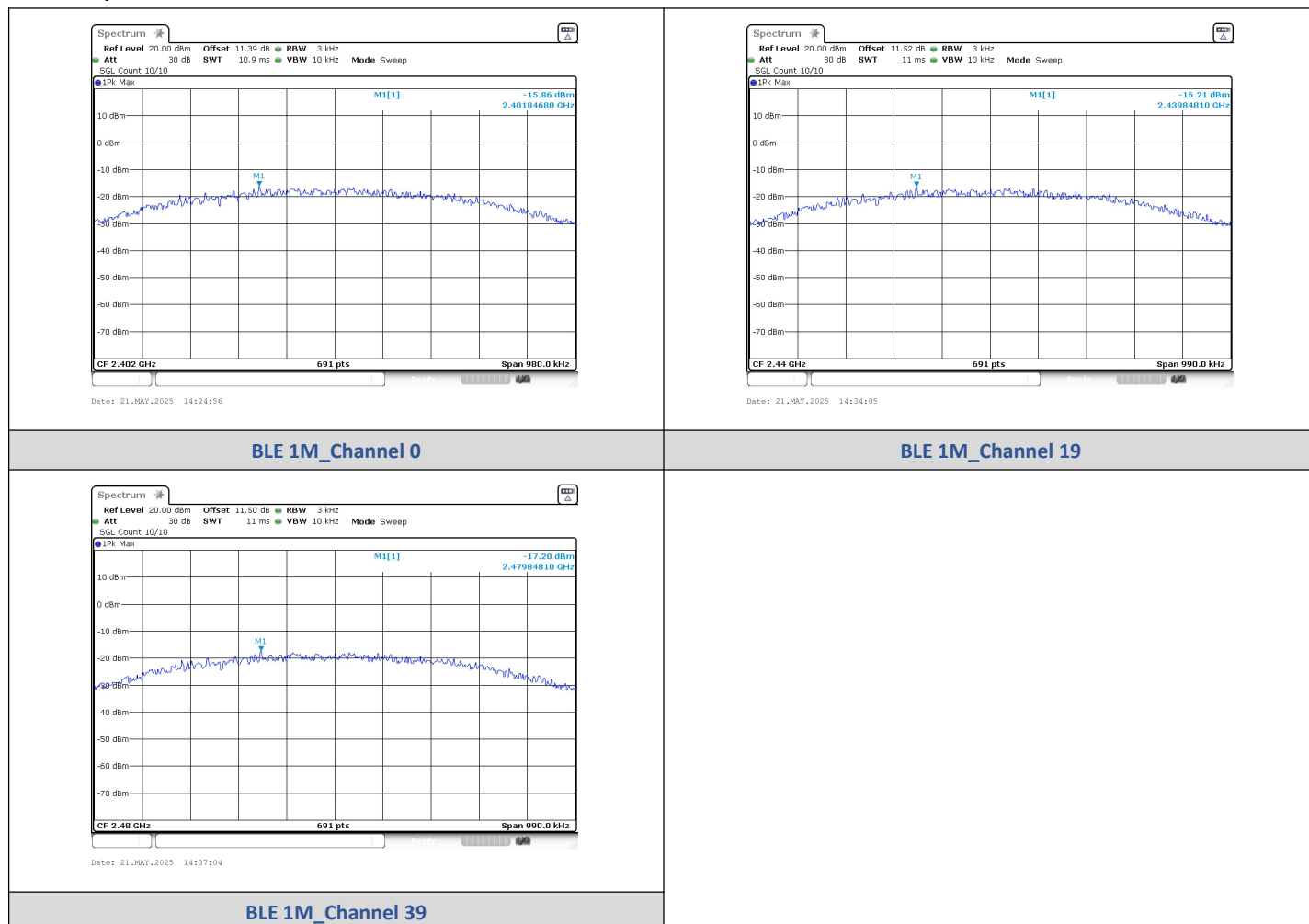
BLE 1M_Channel 39

3) 6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6500	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS

Test Graphs
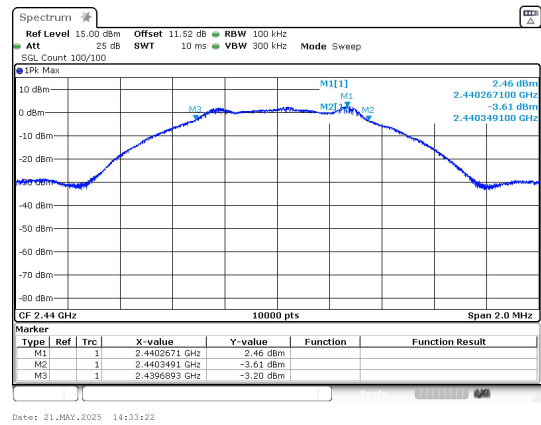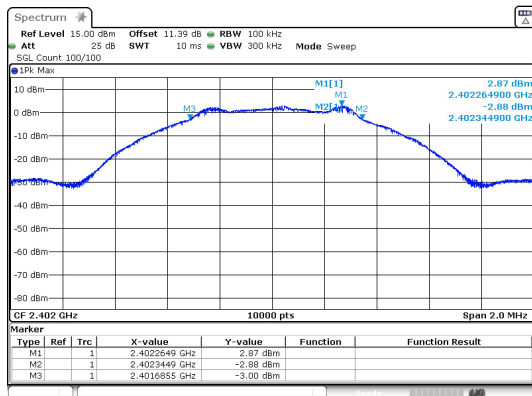
BLE 1M_Channel 0	BLE 1M_Channel 19
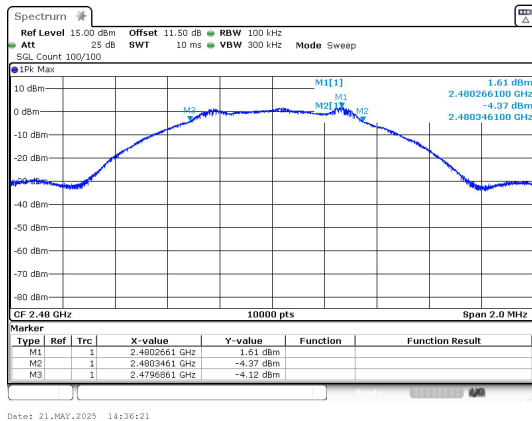
BLE 1M_Channel 39

4) Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	6.29	4.26	≤30	PASS
	19	5.95	3.94	≤30	PASS
	39	5.13	3.26	≤30	PASS

Test Graphs
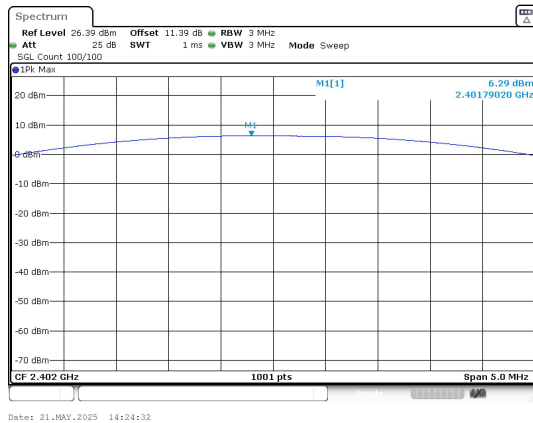
Peak Output Power

BLE 1M_Channel 0
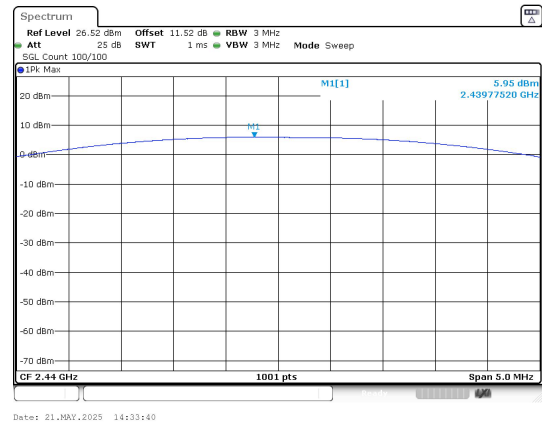
**Peak Output Power**

BLE 1M_Channel 19
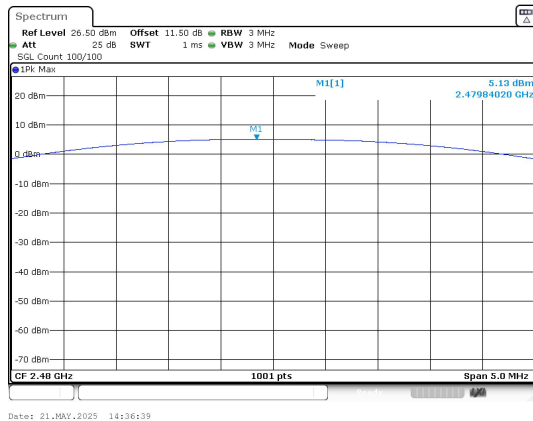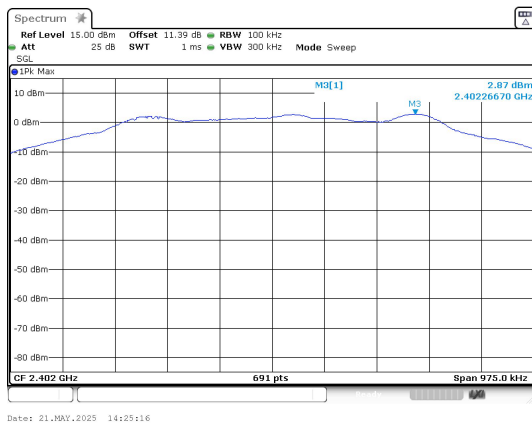

Peak Output Power

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	2400.00	-40.660	-17.13	-23.530	PASS
		7205.13	-42.767	-17.13	-25.637	PASS
	19	9753.73	-44.976	-17.58	-27.396	PASS
	39	2483.50	-46.160	-18.42	-27.740	PASS
		9914.37	-42.706	-18.42	-24.286	PASS

Test Graphs
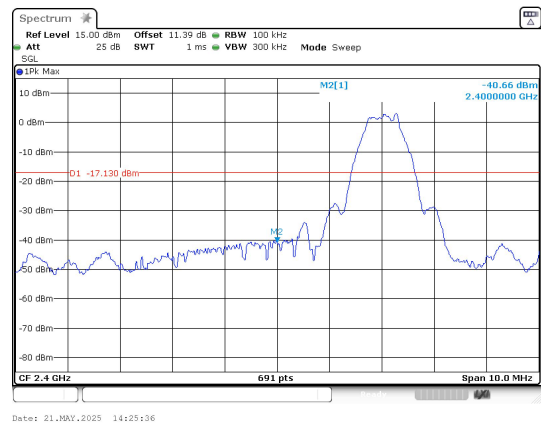
In-Band Reference Level

BLE 1M_Channel 0

Out Of Band Emission

BLE 1M_Channel 0
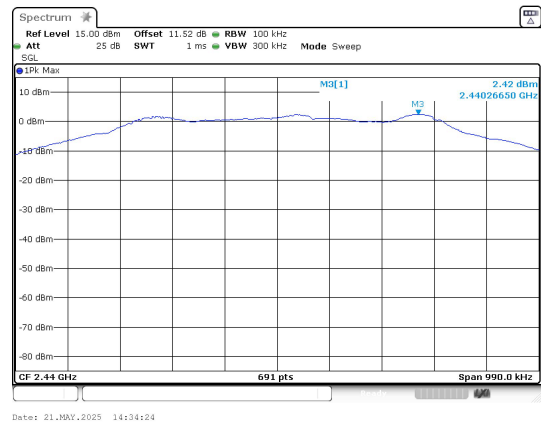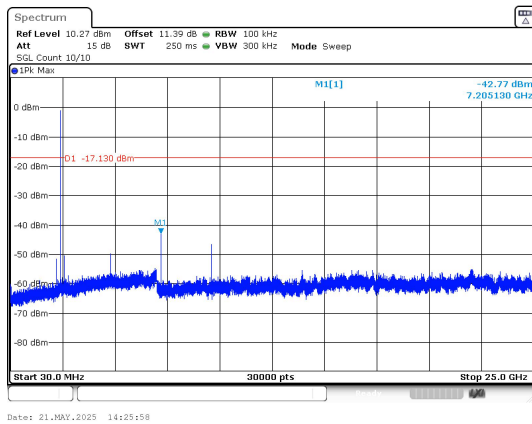
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 0

In-Band Reference Level

BLE 1M_Channel 19
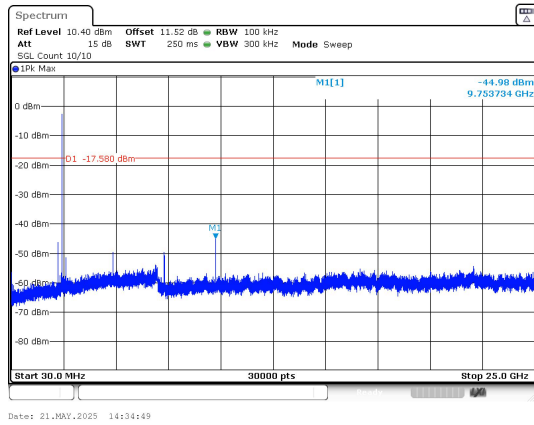
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 19
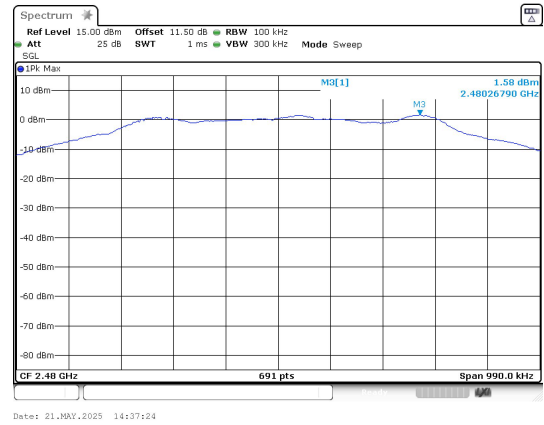
In-Band Reference Level

BLE 1M_Channel 39
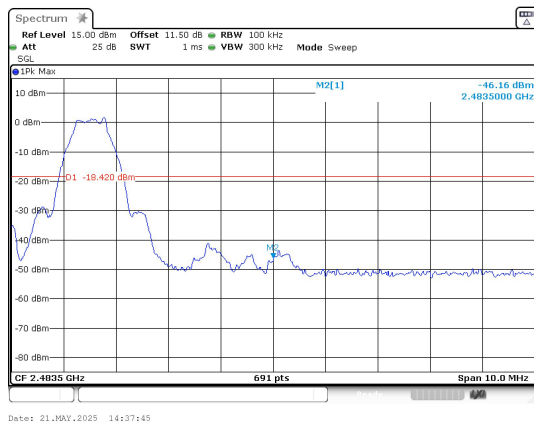
Out Of Band Emission

BLE 1M_Channel 39
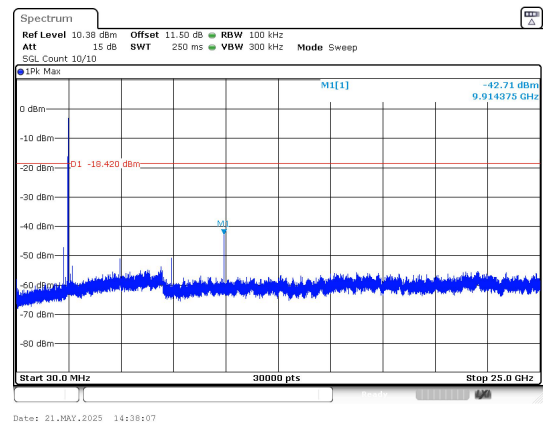
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 39

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