

Appendix Report

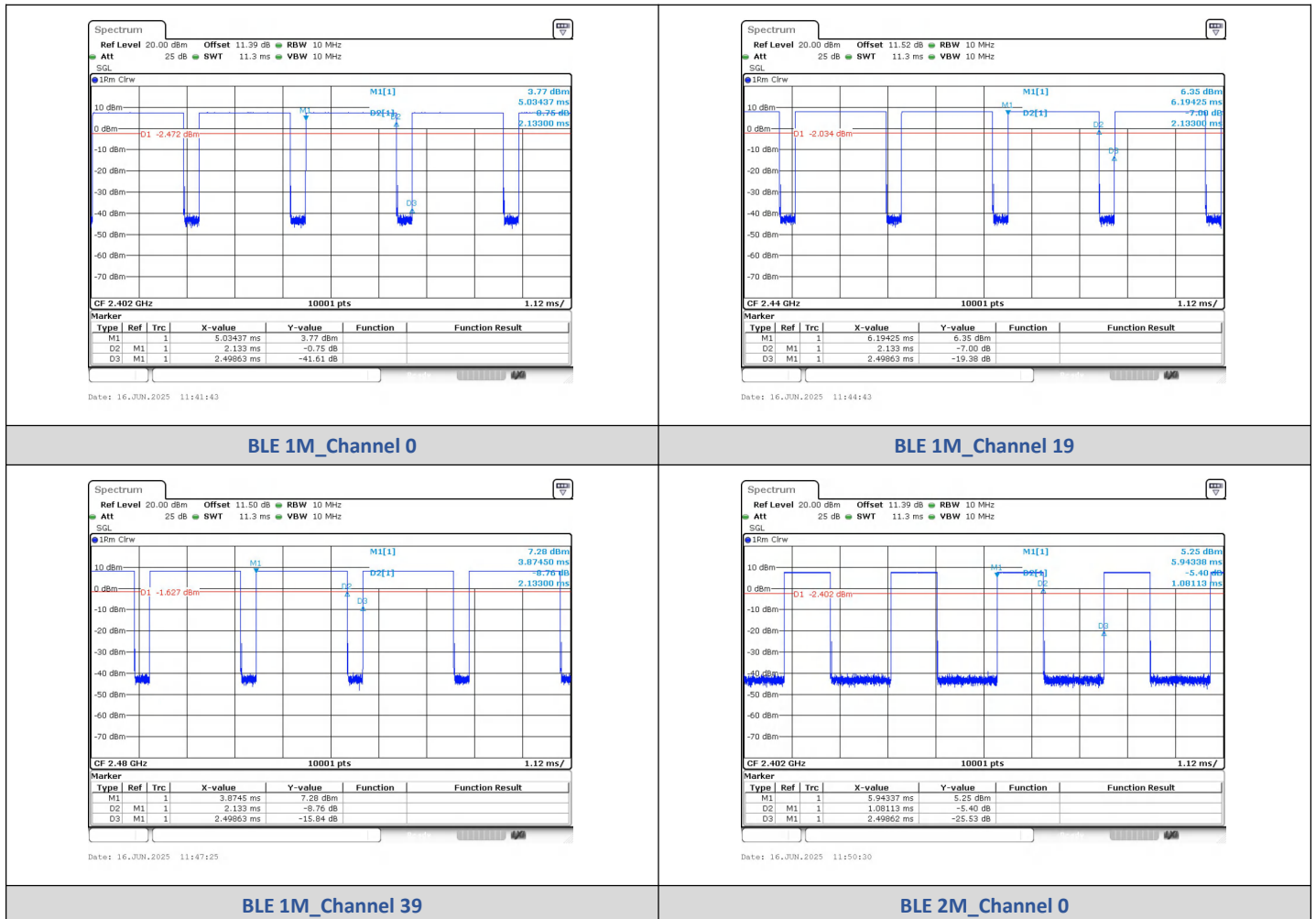
Project No.:	CISR250605022
Test Engineer:	James Wang
Supervised by:	Rory Huang

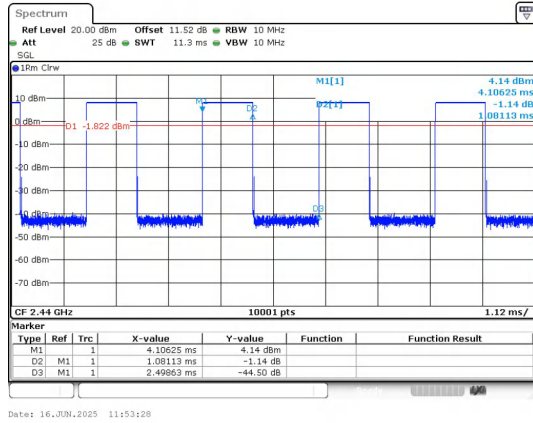
1) Duty Cycle

Test Result

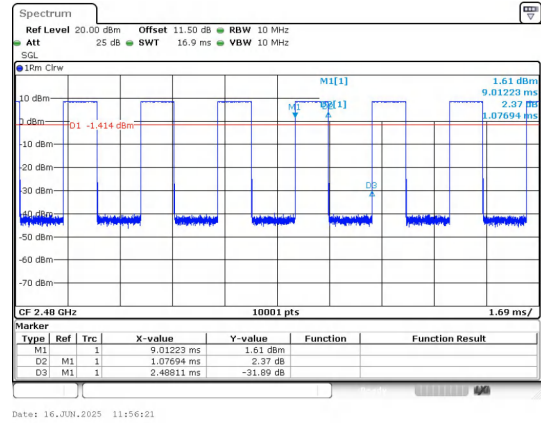
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.133	2.499	85.37	0.8537	0.6869	0.4688
	19	2.133	2.499	85.37	0.8537	0.6869	0.4688
	39	2.133	2.499	85.37	0.8537	0.6869	0.4688
BLE 2M	0	1.081	2.499	43.27	0.4327	3.6381	0.9251
	19	1.081	2.499	43.27	0.4327	3.6381	0.9251
	39	1.077	2.488	43.28	0.4328	3.6371	0.9285

Test Graphs





BLE 2M_Channel 19



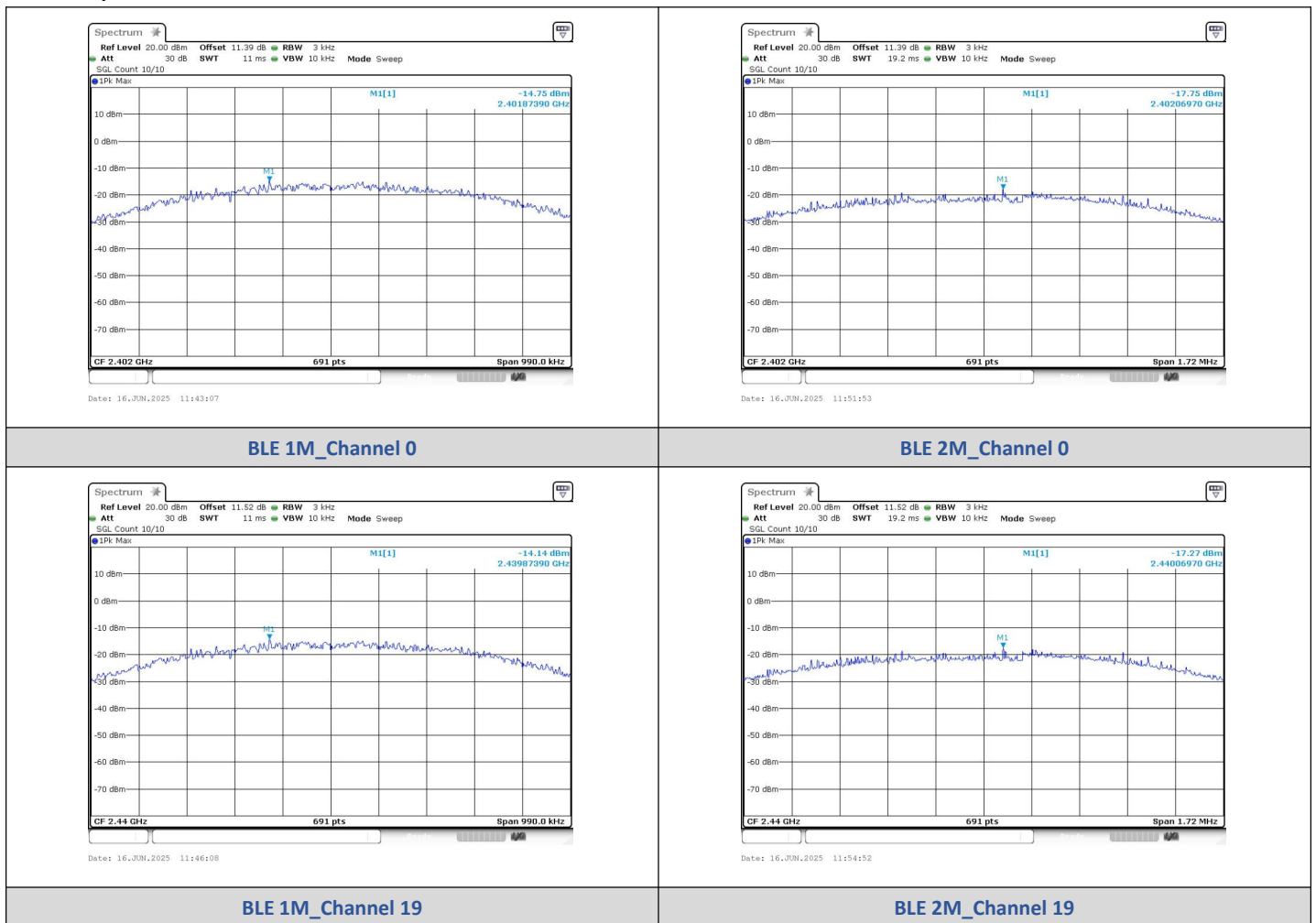
BLE 2M_Channel 39

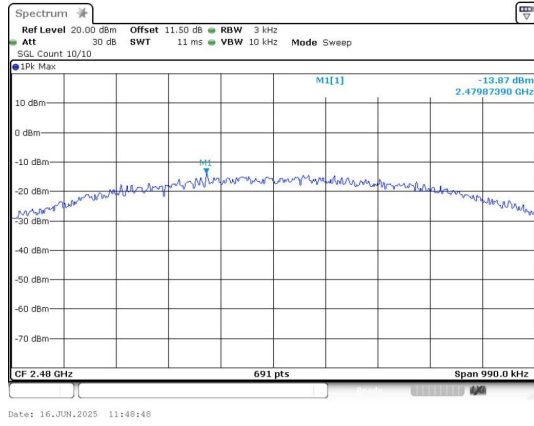
2) Power Spectral Density

Test Result

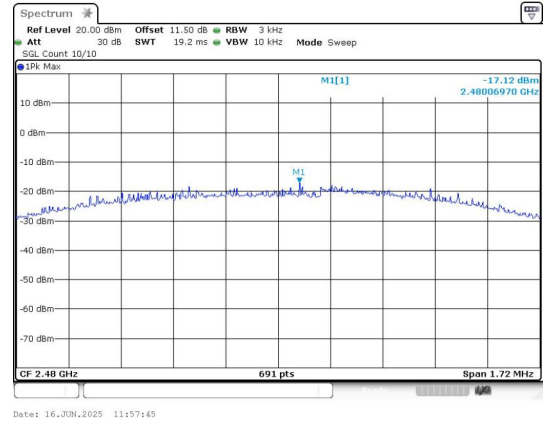
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.750	≤8	PASS
BLE 1M	19	-14.140	≤8	PASS
BLE 1M	39	-13.870	≤8	PASS
BLE 2M	0	-17.750	≤8	PASS
BLE 2M	19	-17.270	≤8	PASS
BLE 2M	39	-17.120	≤8	PASS

Test Graphs





BLE 1M_Channel 39



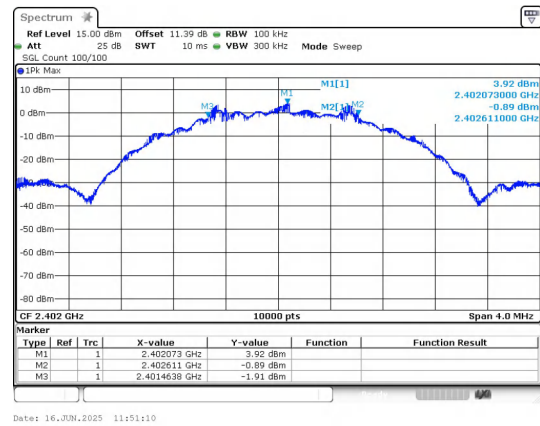
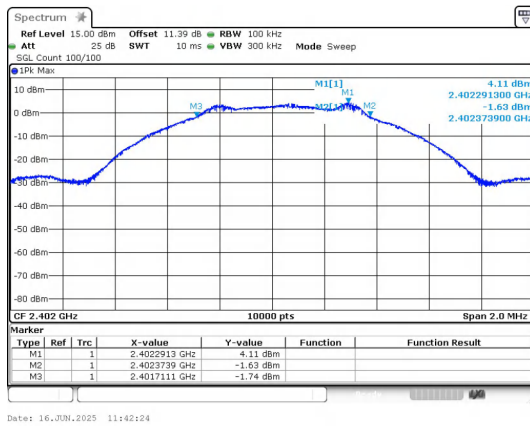
BLE 2M_Channel 39

3) 6dB Bandwidth

Test Result

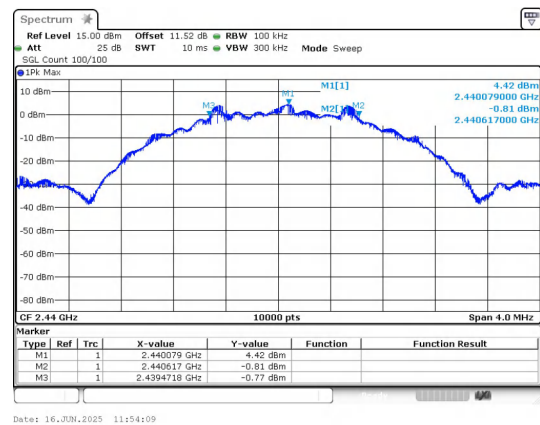
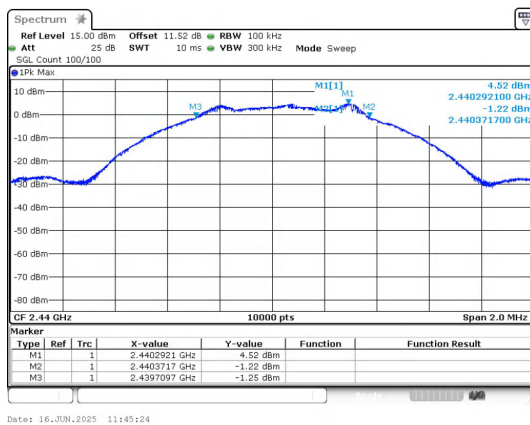
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.150		PASS
	39	2480	1.150		PASS

Test Graphs



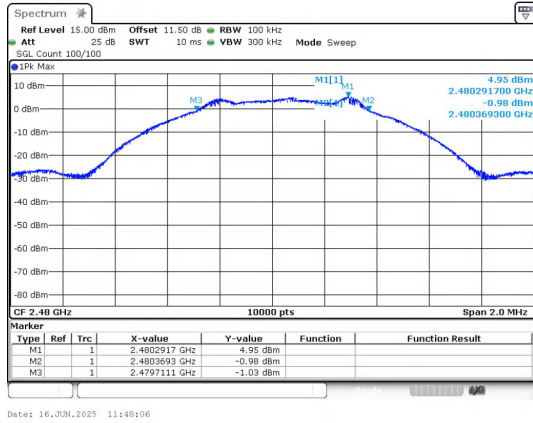
BLE 1M_Channel 0

BLE 2M_Channel 0

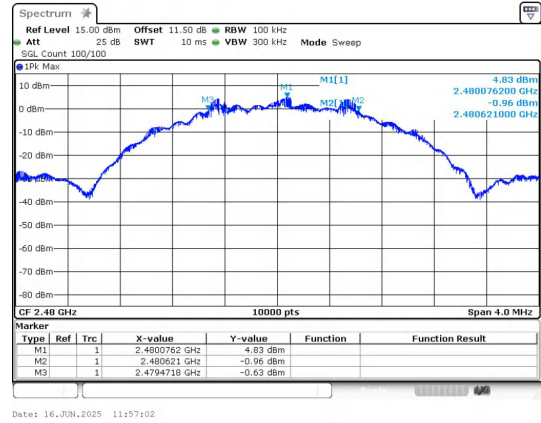


BLE 1M_Channel 19

BLE 2M_Channel 19



BLE 1M_Channel 39



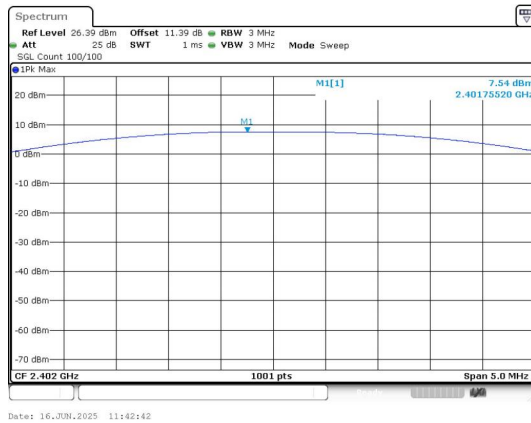
BLE 2M_Channel 39

4) Conducted Output Power

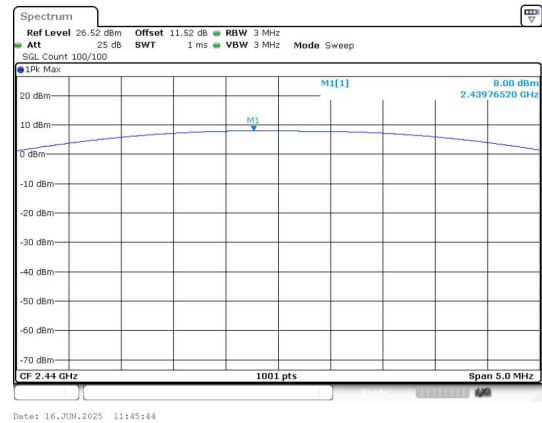
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	7.54	5.68	≤30	PASS
	19	8.00	6.31	≤30	PASS
	39	8.41	6.93	≤30	PASS
BLE 2M	0	7.70	5.89	≤30	PASS
	19	8.21	6.62	≤30	PASS
	39	8.64	7.31	≤30	PASS

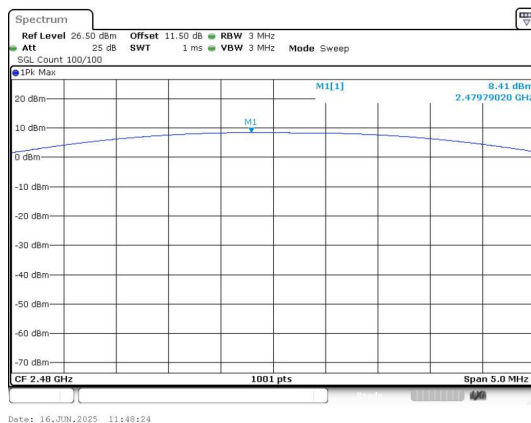
Test Graphs



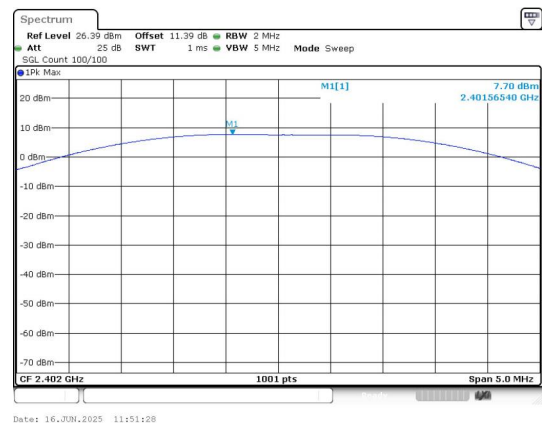
Peak Output Power
BLE 1M_Channel 0



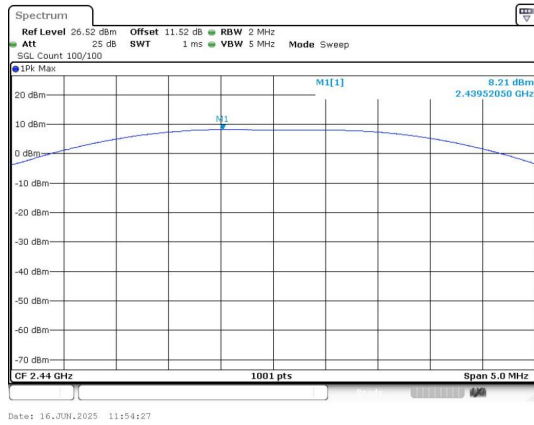
Peak Output Power
BLE 1M_Channel 19



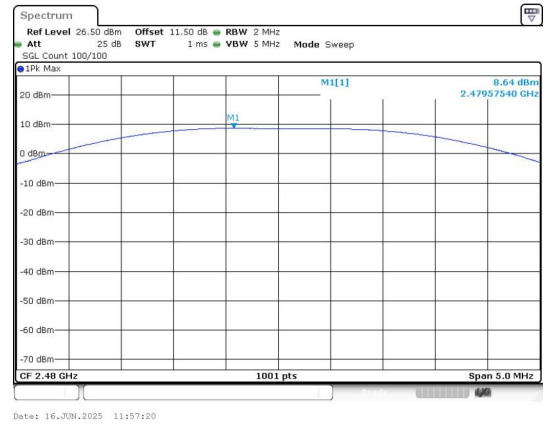
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



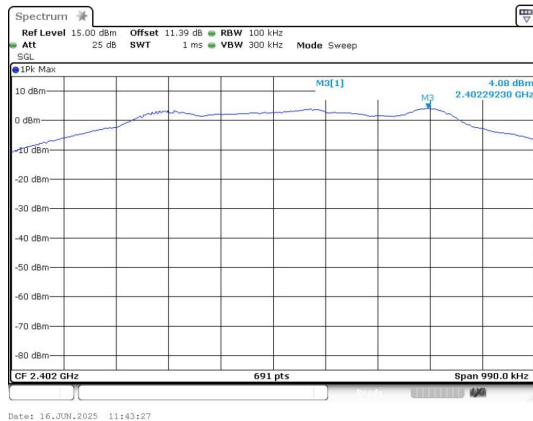
Peak Output Power
BLE 2M_Channel 39

5) Conducted Out Of Band Emission

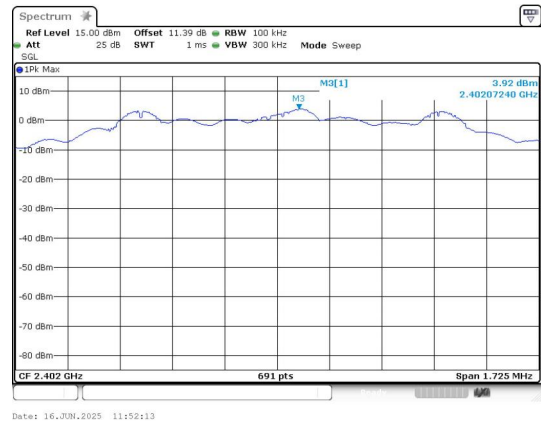
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.81	-35.872	-15.92	-19.952	PASS
		2400.00	-49.820	-15.92	-33.900	PASS
		2594.00	-46.619	-15.92	-30.699	PASS
	19	2632.29	-46.713	-15.47	-31.243	PASS
	39	2483.50	-47.720	-15.04	-32.680	PASS
		2672.24	-46.918	-15.04	-31.878	PASS
BLE 2M	0	2400.00	-30.550	-16.08	-14.470	PASS
		2594.00	-47.933	-16.08	-31.853	PASS
	19	2632.29	-48.730	-15.59	-33.140	PASS
	39	2483.50	-51.040	-15.16	-35.880	PASS
		2672.24	-49.581	-15.16	-34.421	PASS

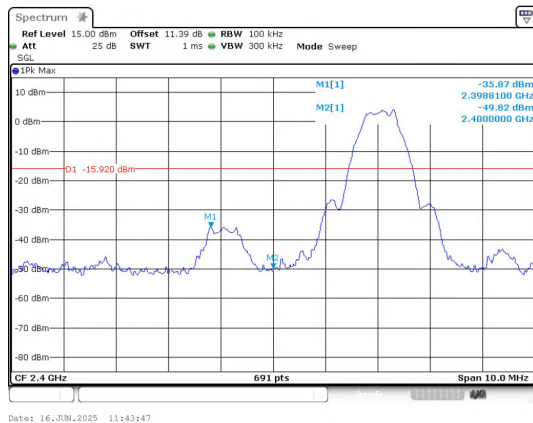
Test Graphs



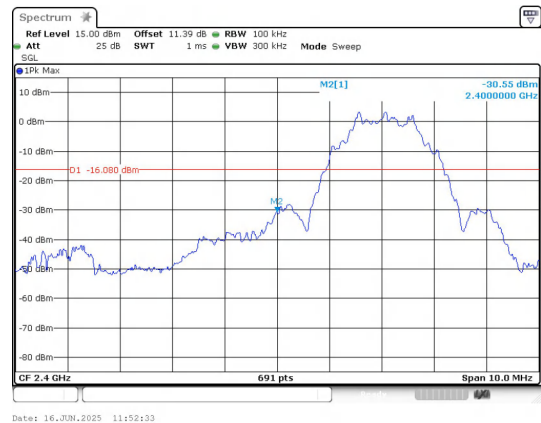
In-Band Reference Level
BLE 1M_Channel 0



In-Band Reference Level
BLE 2M_Channel 0

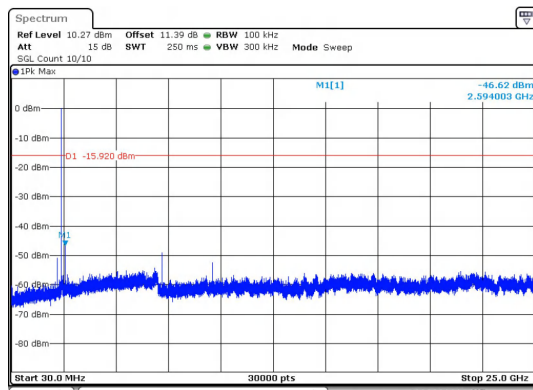


Out Of Band Emission

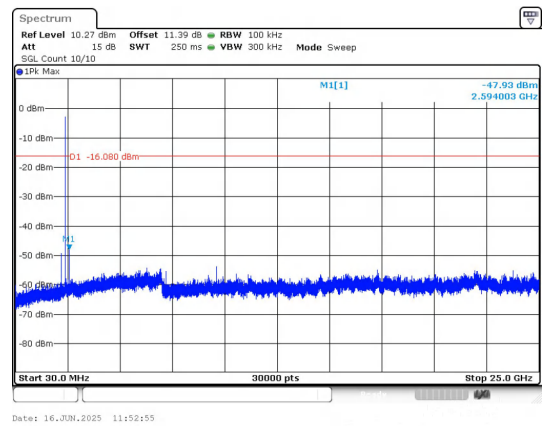
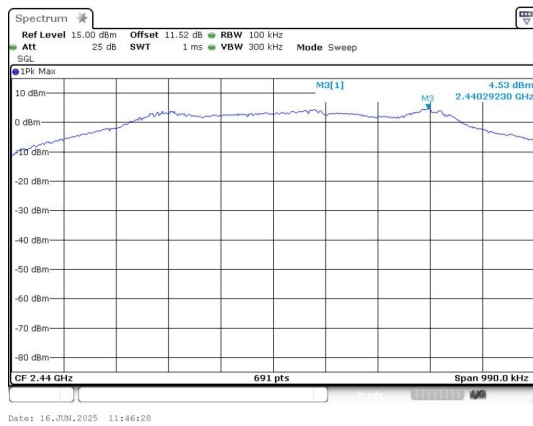
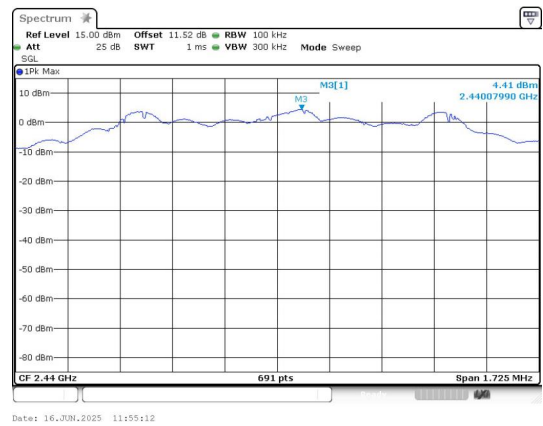
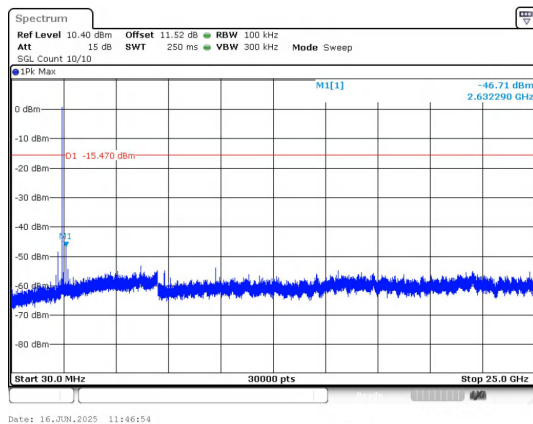
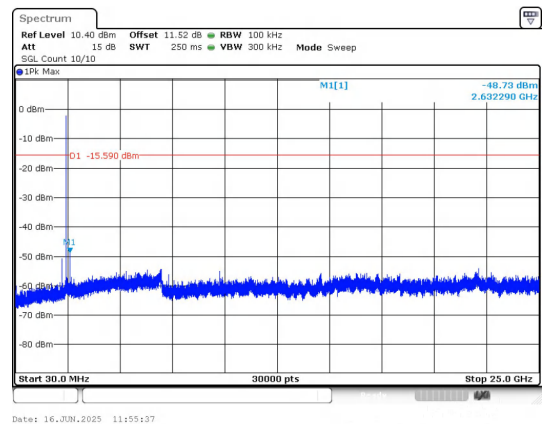


Out Of Band Emission

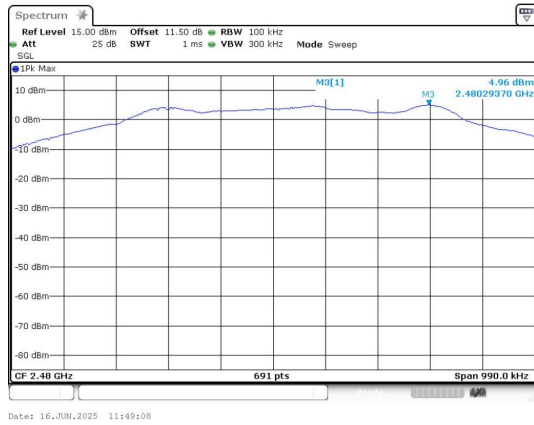
BLE 1M_Channel 0



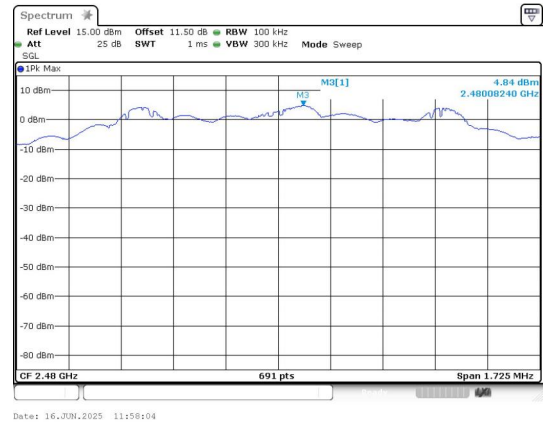
BLE 2M_Channel 0


30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0

30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0

In-Band Reference Level
BLE 1M_Channel 19

In-Band Reference Level
BLE 2M_Channel 19

30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19

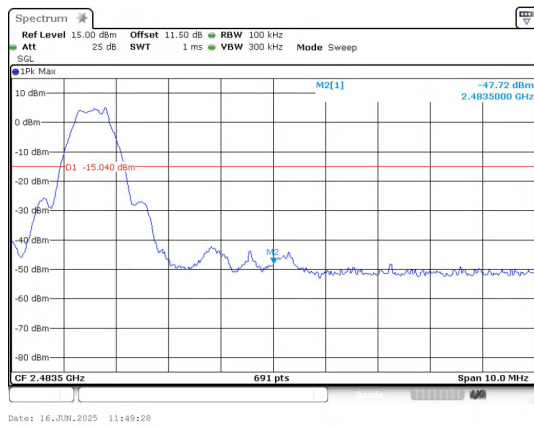
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



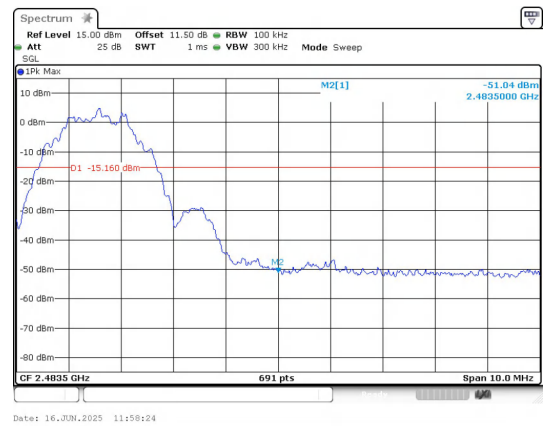
In-Band Reference Level
BLE 1M_Channel 39



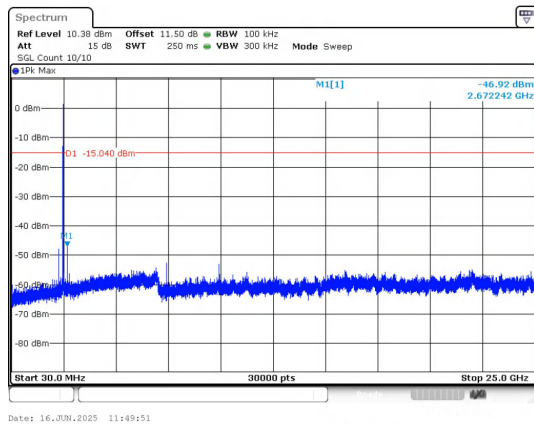
In-Band Reference Level
BLE 2M_Channel 39



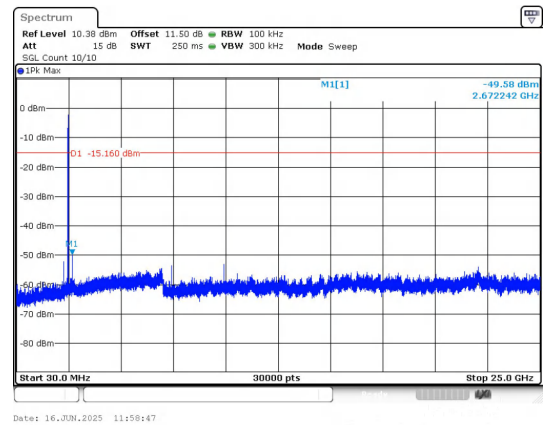
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39

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