

Appendix Report

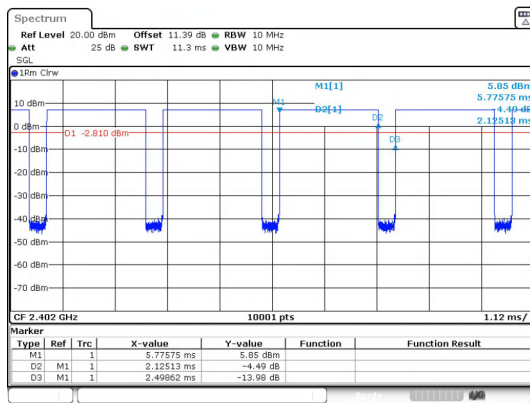
Project No.:	CISR250320172
Test Engineer:	James Wang
Supervised by:	Rory Huang

1) Duty Cycle

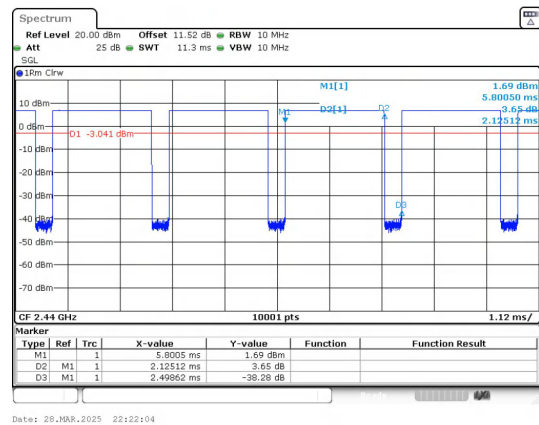
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.125	2.499	85.05	0.8505	0.7033	0.4706
	19	2.125	2.499	85.05	0.8505	0.7033	0.4706
	39	2.126	2.500	85.06	0.8506	0.7027	0.4704
BLE 2M	0	1.068	1.873	57.00	0.5700	2.4413	0.9363
	19	1.069	1.873	57.06	0.5706	2.4367	0.9355
	39	1.069	1.874	57.02	0.5702	2.4397	0.9355

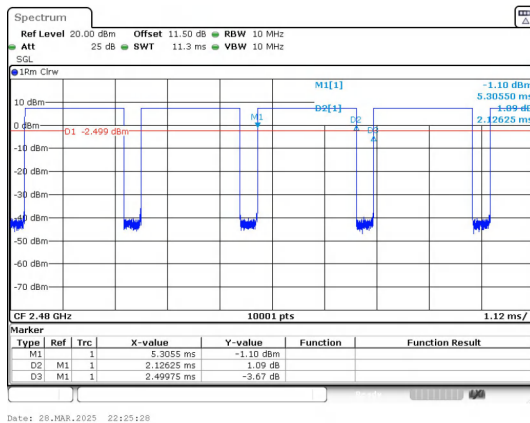
Test Graphs



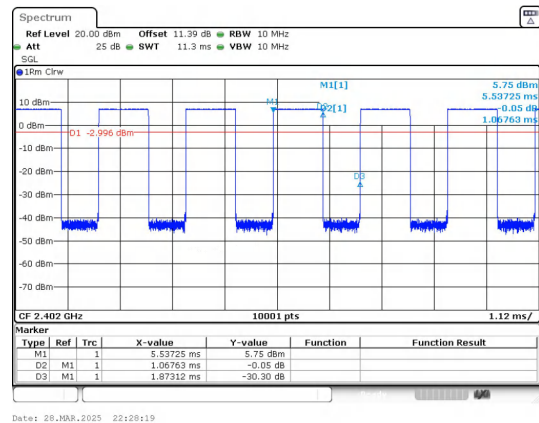
BLE 1M_Channel 0



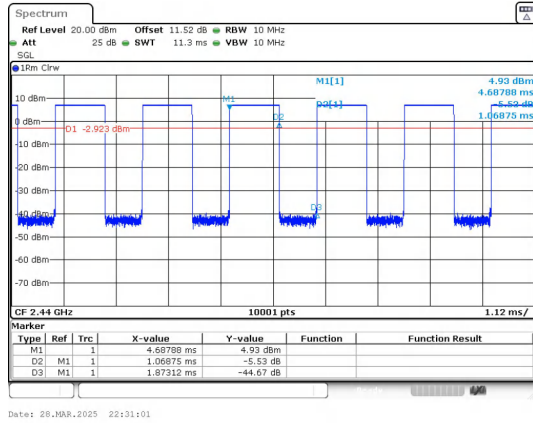
BLE 1M_Channel 19



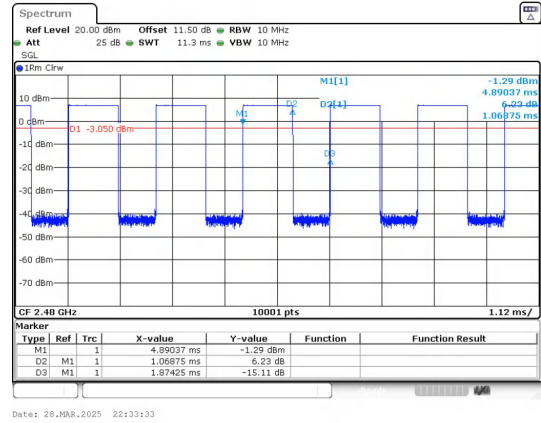
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



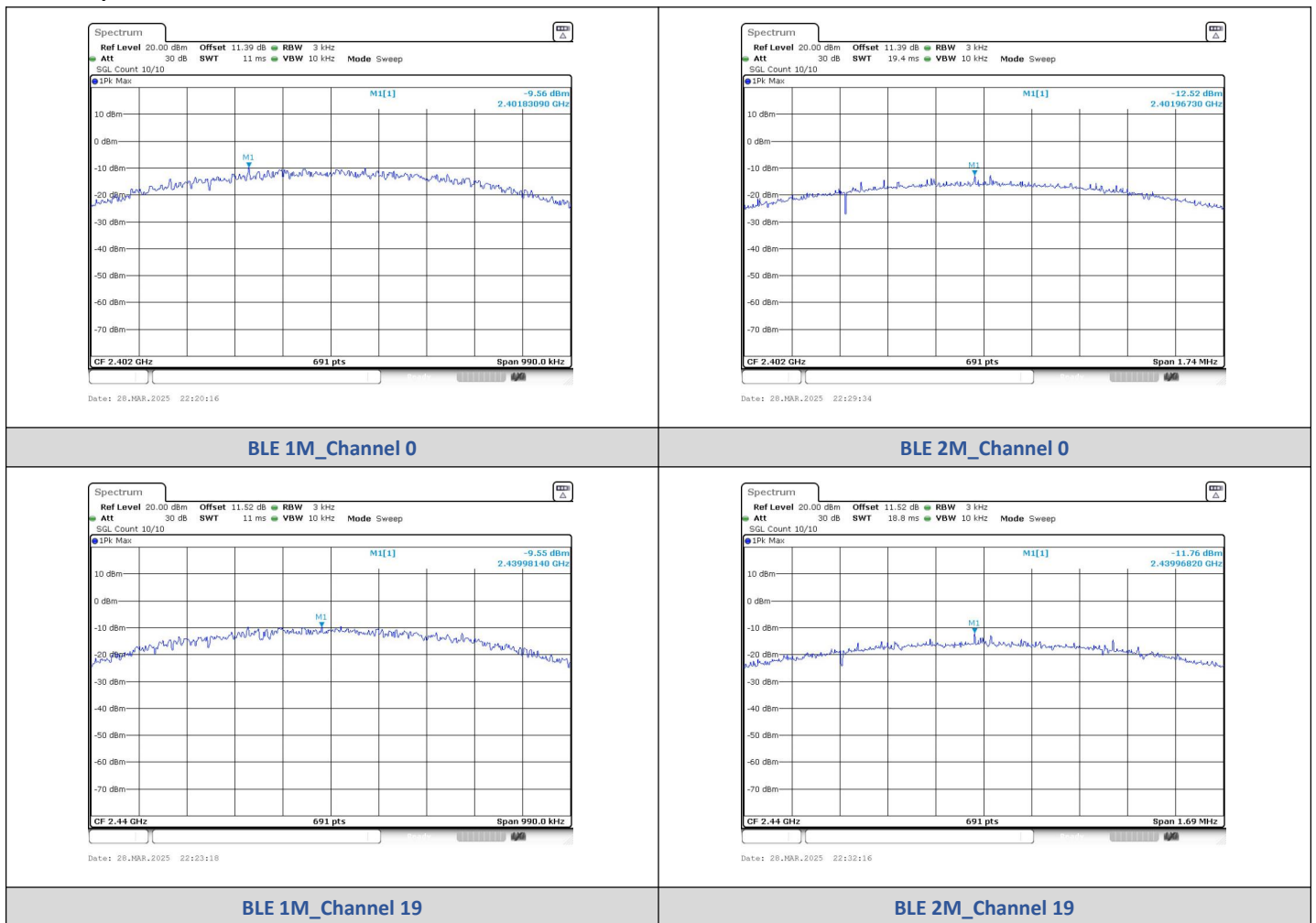
BLE 2M_Channel 39

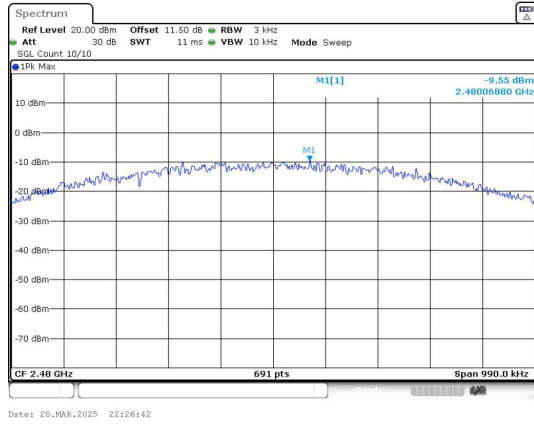
2) Power Spectral Density

Test Result

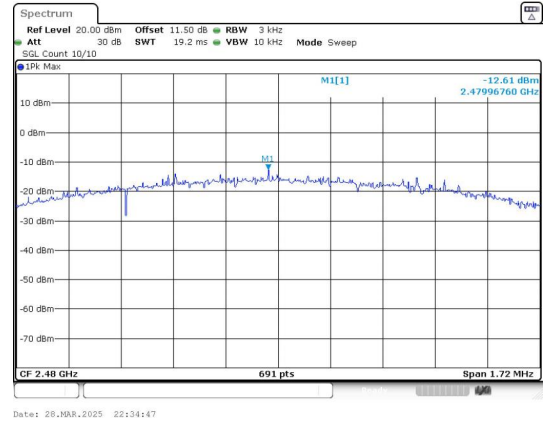
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-9.560	≤8	PASS
BLE 1M	19	-9.550	≤8	PASS
BLE 1M	39	-9.550	≤8	PASS
BLE 2M	0	-12.520	≤8	PASS
BLE 2M	19	-11.760	≤8	PASS
BLE 2M	39	-12.610	≤8	PASS

Test Graphs





BLE 1M_Channel 39



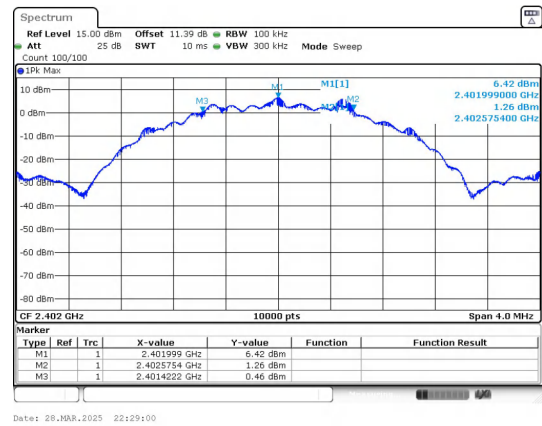
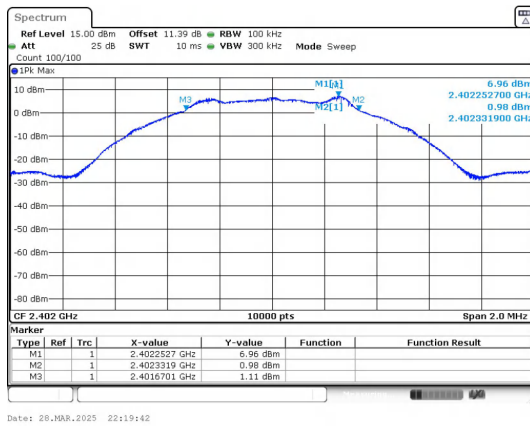
BLE 2M_Channel 39

3) 6dB Bandwidth

Test Result

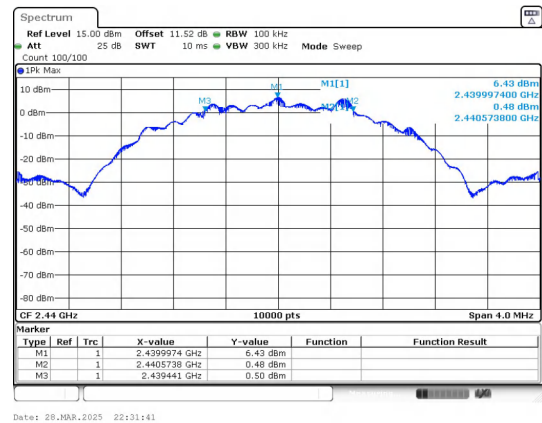
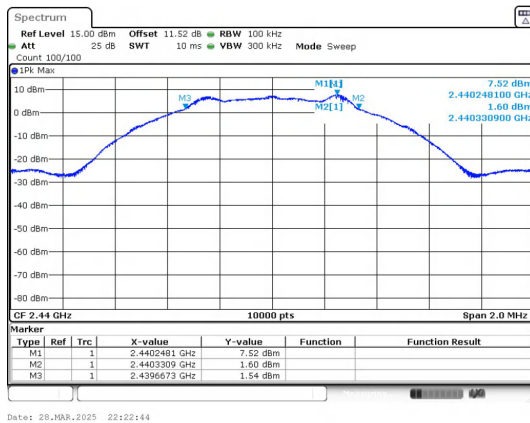
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.160		PASS
	19	2440	1.130		PASS
	39	2480	1.150		PASS

Test Graphs



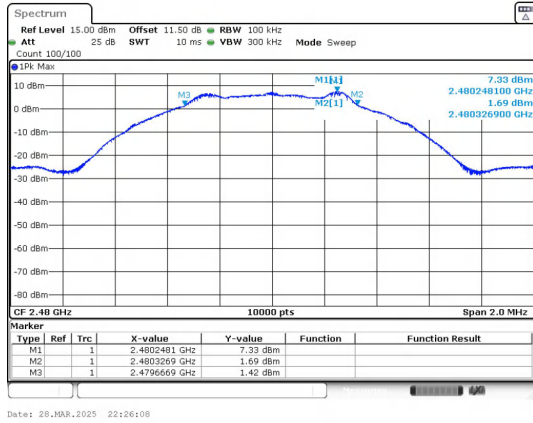
BLE 1M_Channel 0

BLE 2M_Channel 0

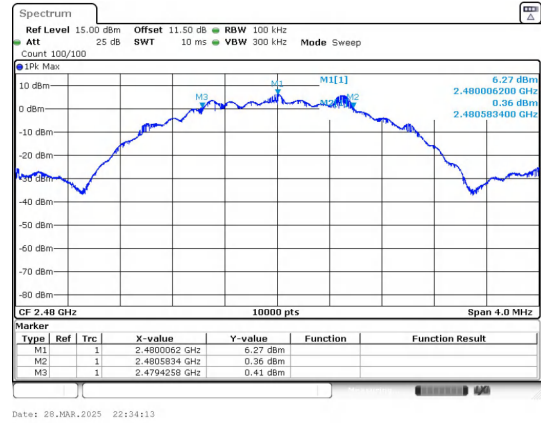


BLE 1M_Channel 19

BLE 2M_Channel 19



BLE 1M_Channel 39



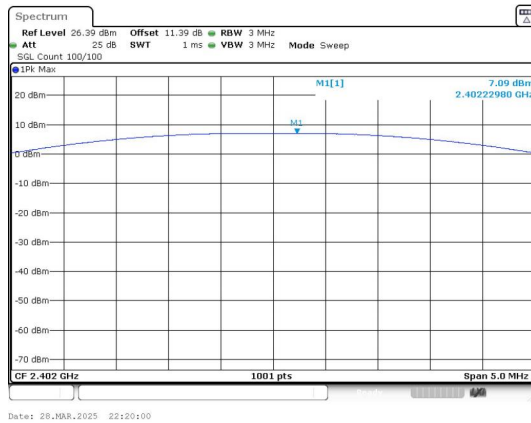
BLE 2M_Channel 39

4) Conducted Output Power

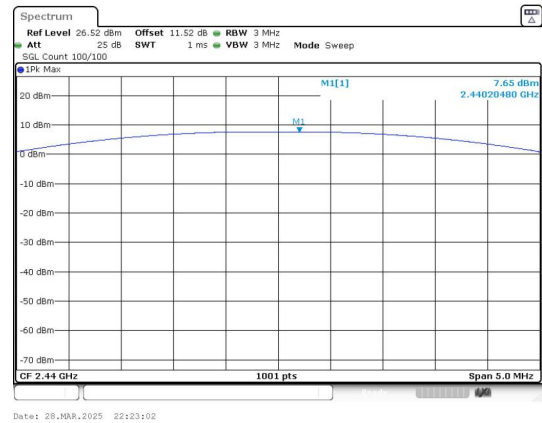
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	7.09	5.12	≤30	PASS
	19	7.65	5.82	≤30	PASS
	39	7.48	5.6	≤30	PASS
BLE 2M	0	7.07	5.09	≤30	PASS
	19	7.07	5.09	≤30	PASS
	39	6.95	4.95	≤30	PASS

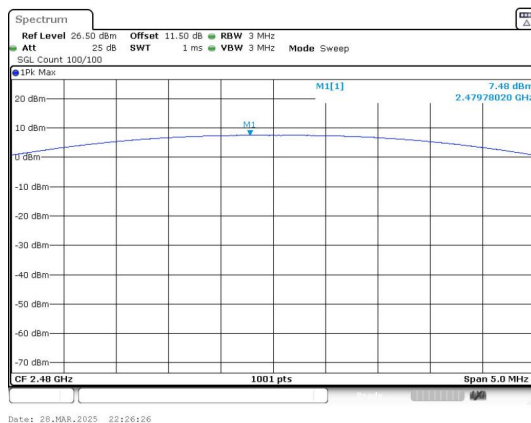
Test Graphs



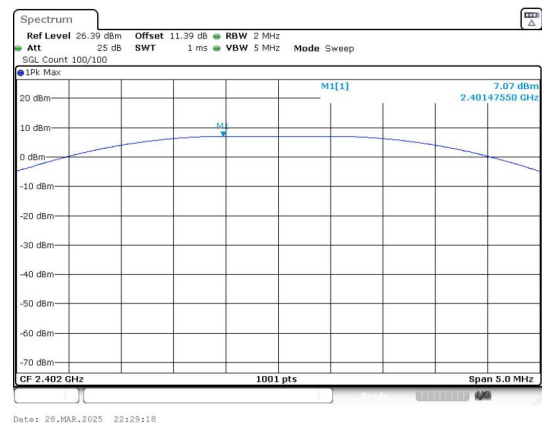
Peak Output Power
BLE 1M_Channel 0



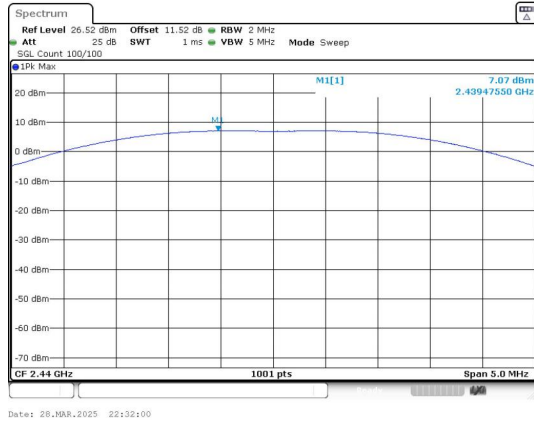
Peak Output Power
BLE 1M_Channel 19



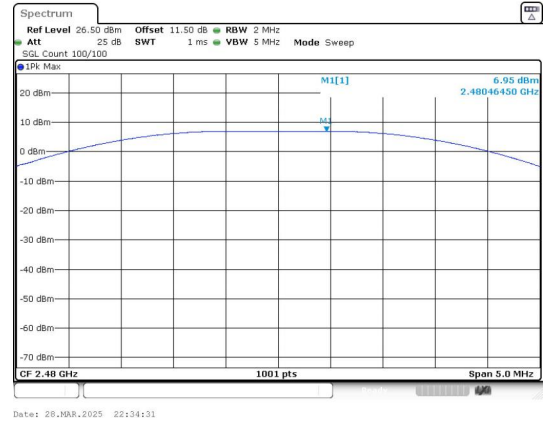
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



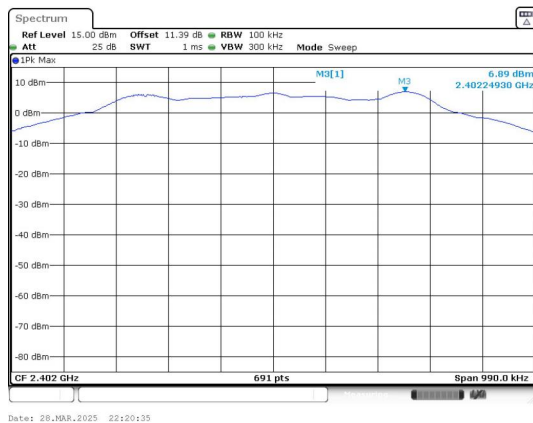
Peak Output Power
BLE 2M_Channel 39

5) Conducted Out Of Band Emission

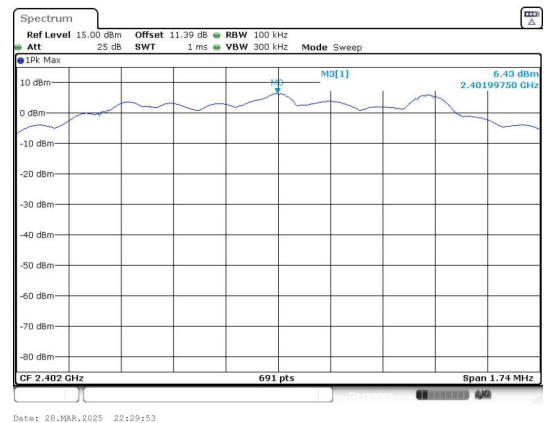
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-48.350	-13.11	-35.240	PASS
		4803.85	-51.980	-13.11	-38.870	PASS
	19	4879.59	-52.408	-12.52	-39.888	PASS
	39	2483.50	-50.400	-12.69	-37.710	PASS
		4960.33	-51.955	-12.69	-39.265	PASS
BLE 2M	0	2400.00	-25.470	-13.57	-11.900	PASS
		6176.37	-52.634	-13.57	-39.064	PASS
	19	6909.65	-53.400	-13.57	-39.830	PASS
	39	2483.50	-49.180	-13.71	-35.470	PASS
		6854.72	-53.575	-13.71	-39.865	PASS

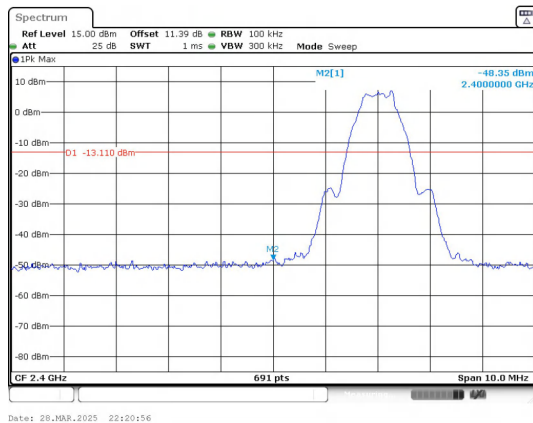
Test Graphs



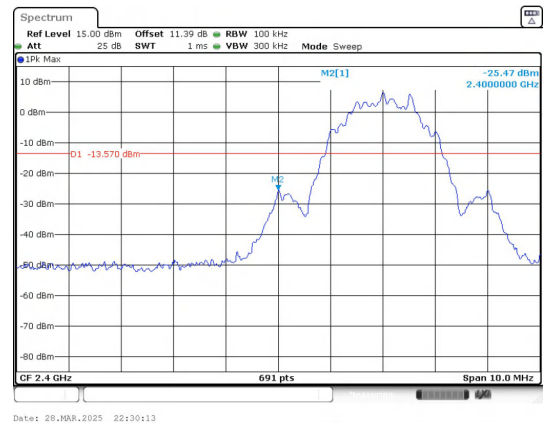
In-Band Reference Level
BLE 1M_Channel 0



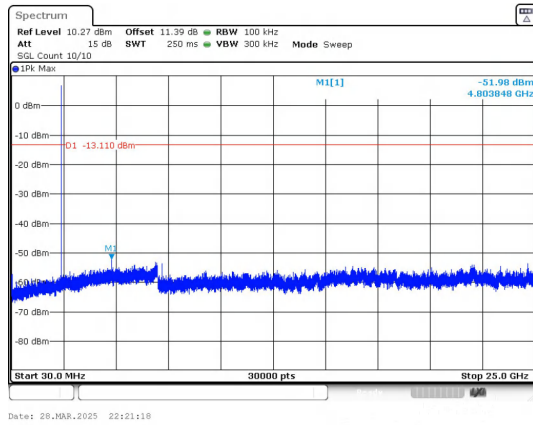
In-Band Reference Level
BLE 2M_Channel 0



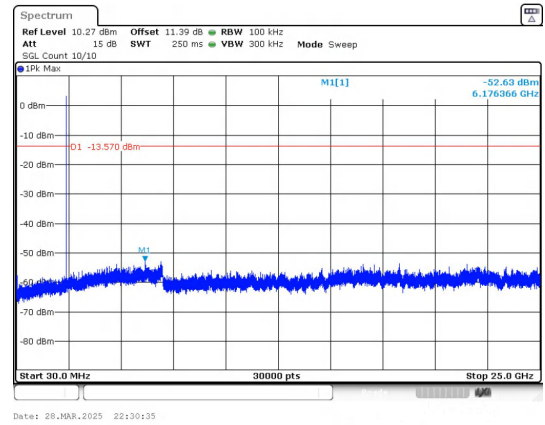
Out Of Band Emission
BLE 1M_Channel 0



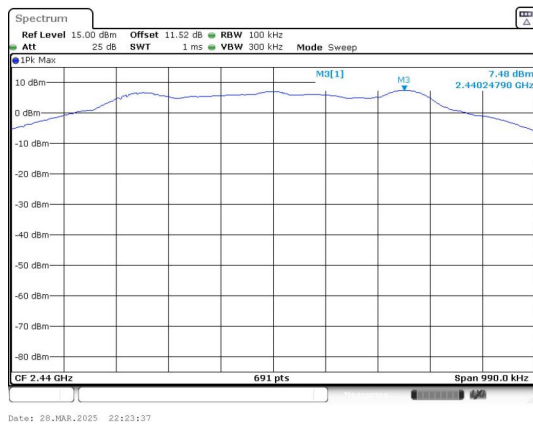
Out Of Band Emission
BLE 2M_Channel 0



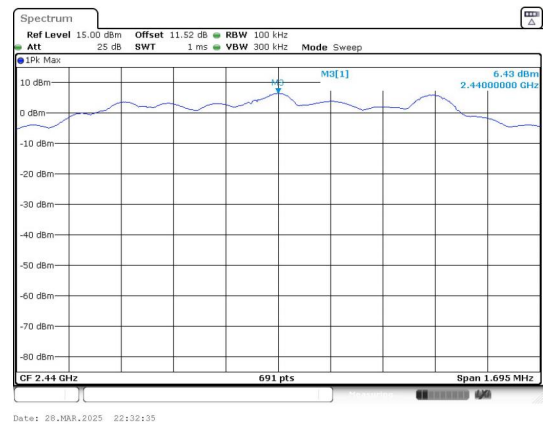
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



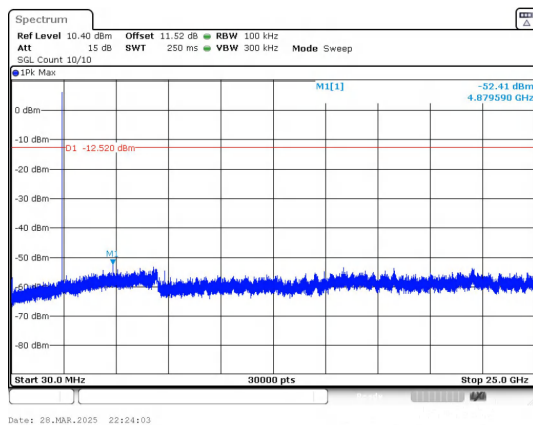
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



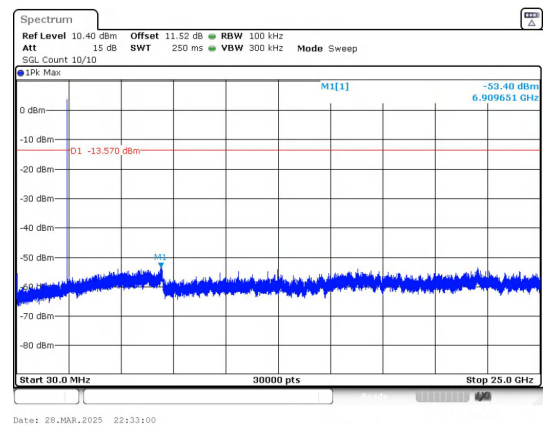
In-Band Reference Level
BLE 1M_Channel 19



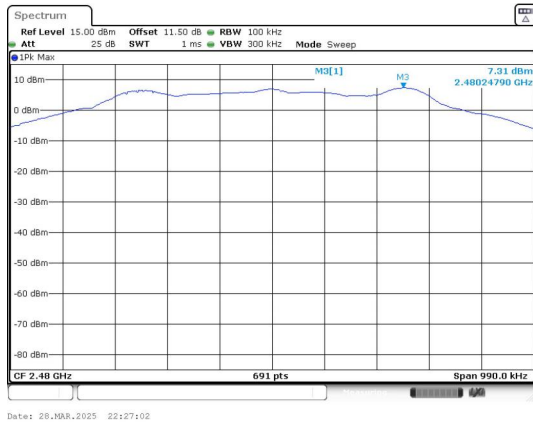
In-Band Reference Level
BLE 2M_Channel 19



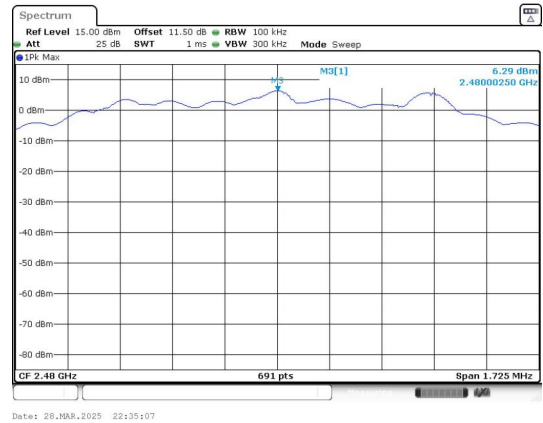
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



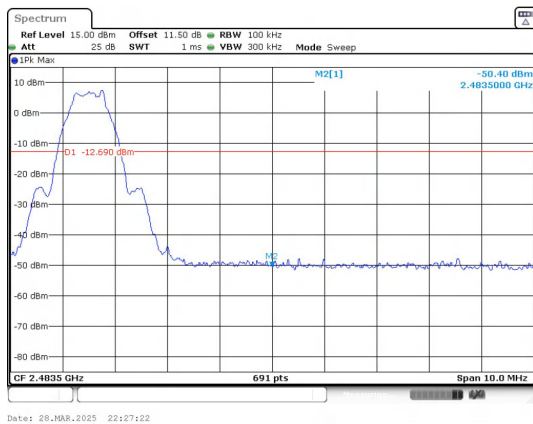
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



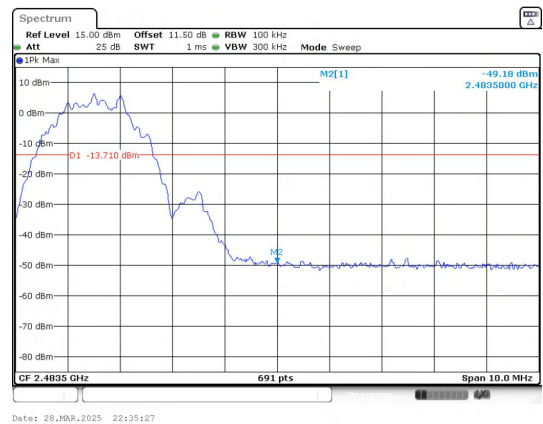
**In-Band Reference Level
BLE 1M_Channel 39**



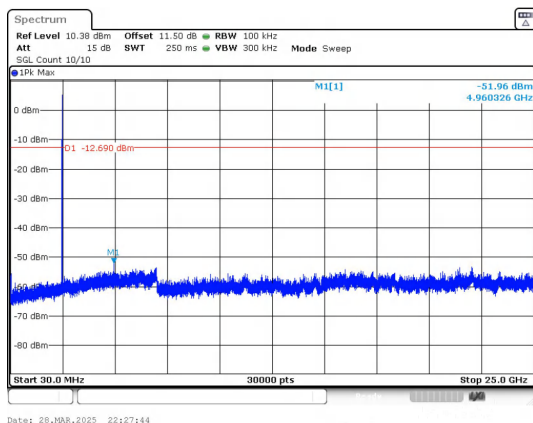
**In-Band Reference Level
BLE 2M_Channel 39**



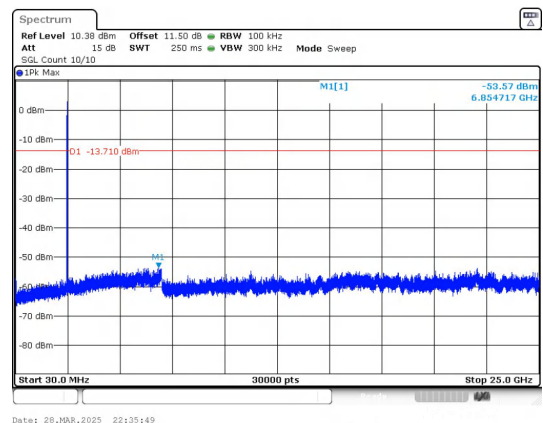
**Out Of Band Emission
BLE 1M_Channel 39**



**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-----