

Appendix Report

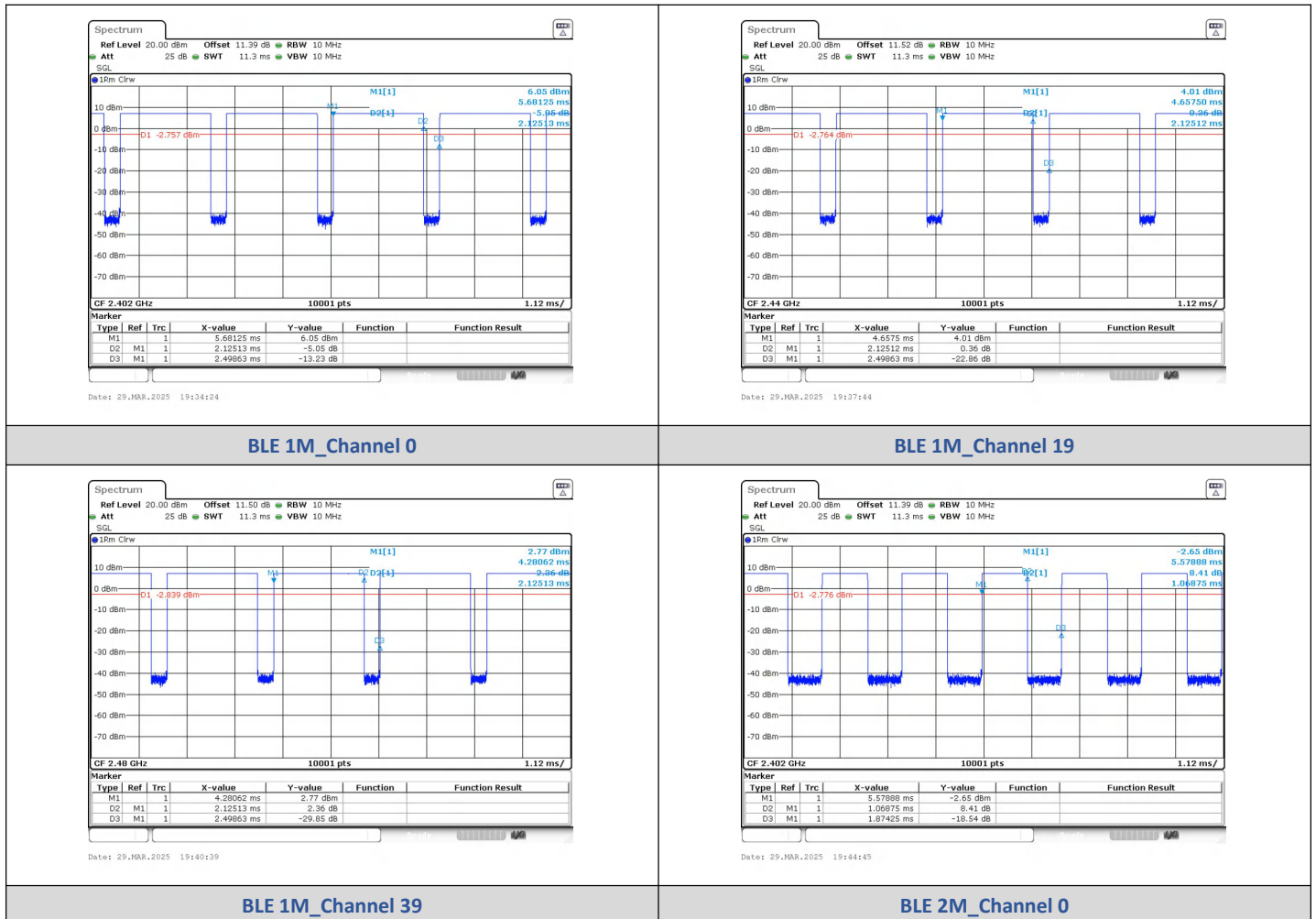
Project No.:	CISR250320170
Test Engineer:	James Wang
Supervised by:	Rory Huang

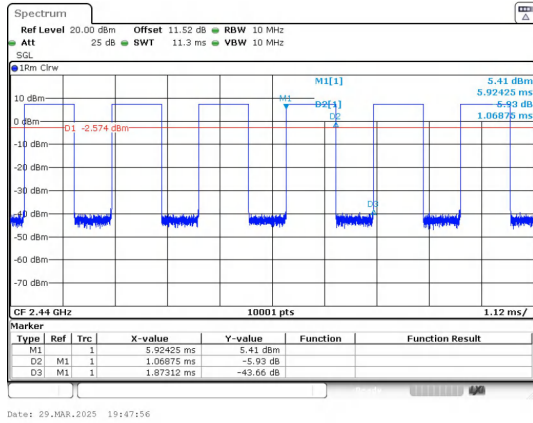
1) Duty Cycle

Test Result

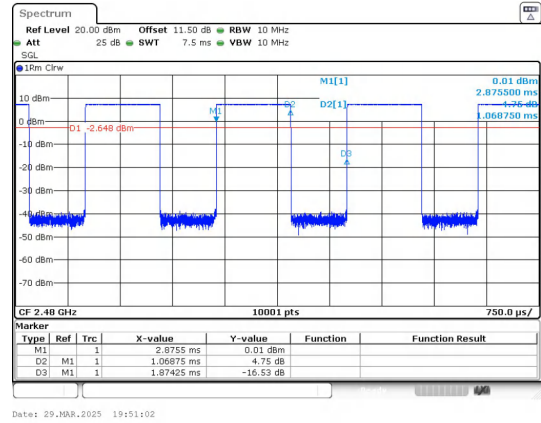
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.125	2.499	85.05	0.8505	0.7033	0.4706
	19	2.125	2.499	85.05	0.8505	0.7033	0.4706
	39	2.125	2.499	85.05	0.8505	0.7033	0.4706
BLE 2M	0	1.069	1.874	57.02	0.5702	2.4397	0.9355
	19	1.069	1.873	57.06	0.5706	2.4367	0.9355
	39	1.069	1.874	57.02	0.5702	2.4397	0.9355

Test Graphs





BLE 2M_Channel 19



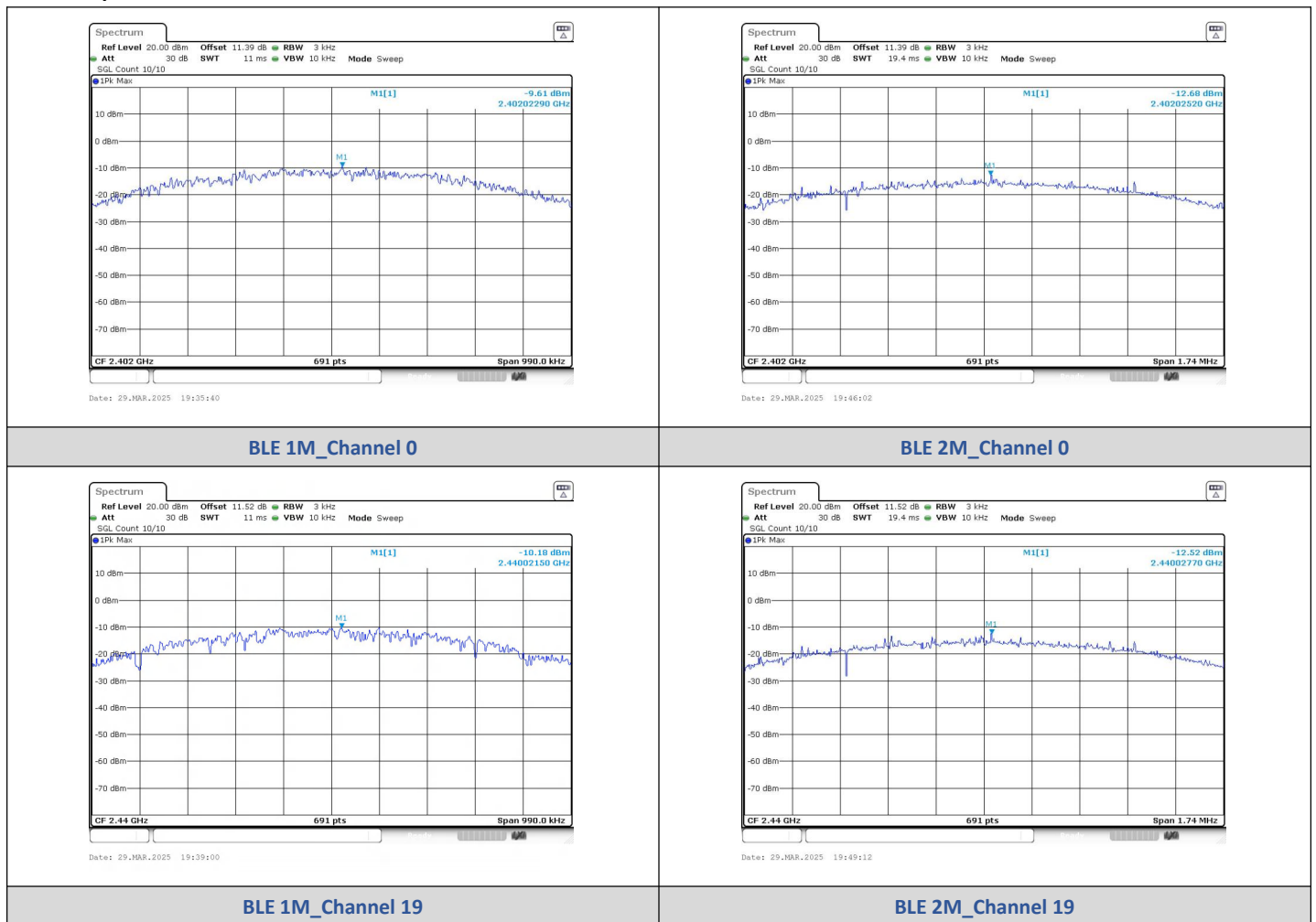
BLE 2M_Channel 39

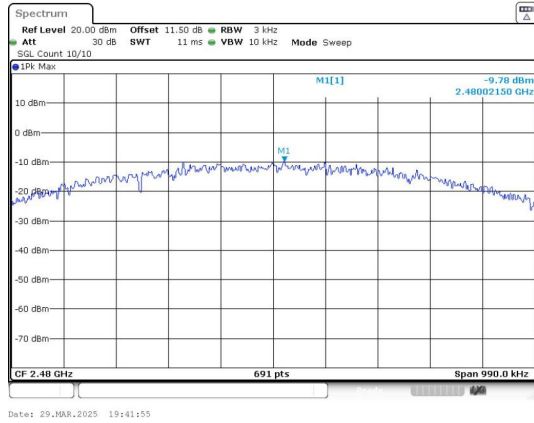
2) Power Spectral Density

Test Result

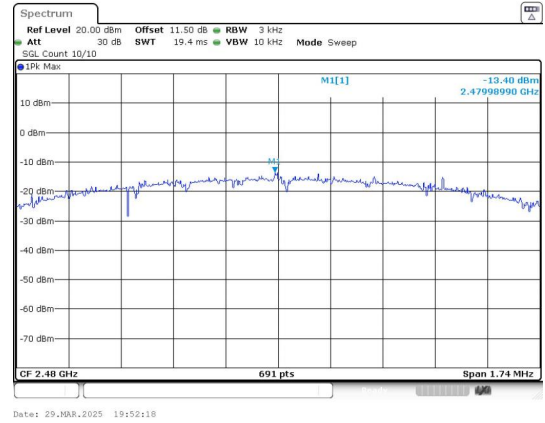
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-9.610	≤8	PASS
BLE 1M	19	-10.180	≤8	PASS
BLE 1M	39	-9.780	≤8	PASS
BLE 2M	0	-12.680	≤8	PASS
BLE 2M	19	-12.520	≤8	PASS
BLE 2M	39	-13.400	≤8	PASS

Test Graphs





BLE 1M_Channel 39



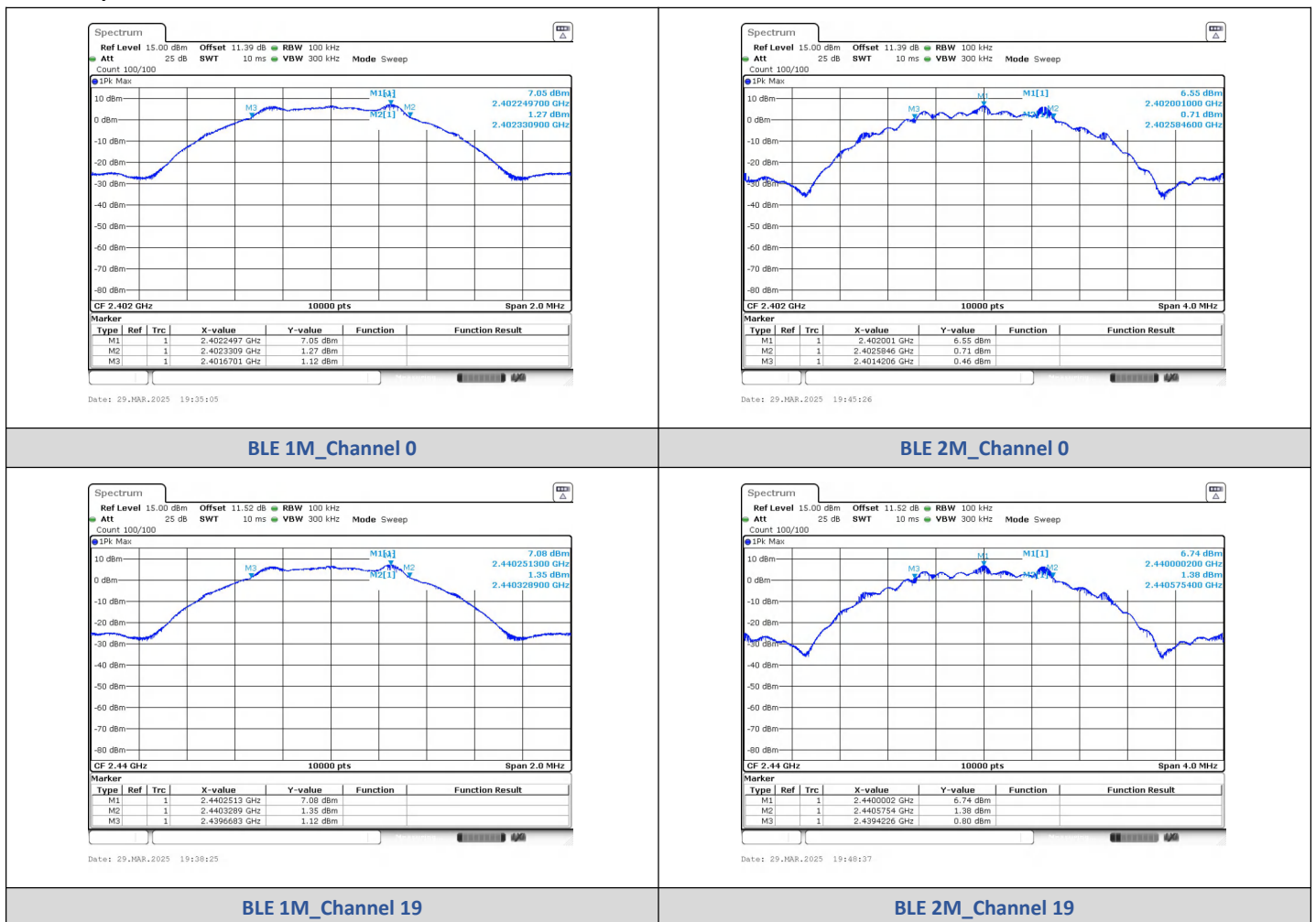
BLE 2M_Channel 39

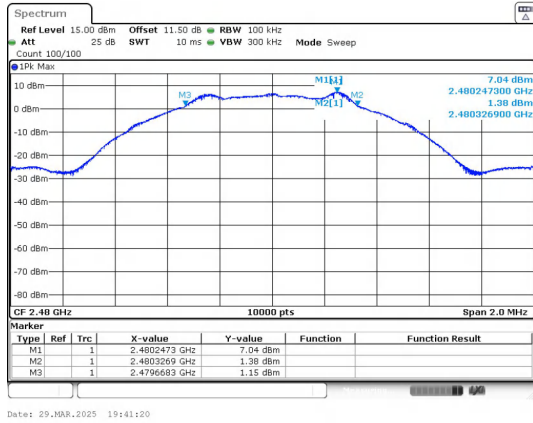
3) 6dB Bandwidth

Test Result

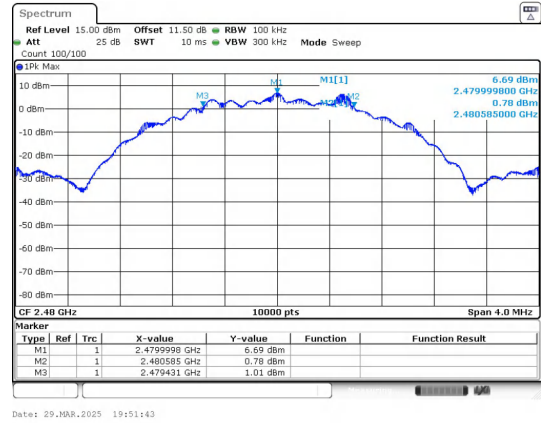
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.160		PASS
	19	2440	1.160		PASS
	39	2480	1.160		PASS

Test Graphs





BLE 1M_Channel 39



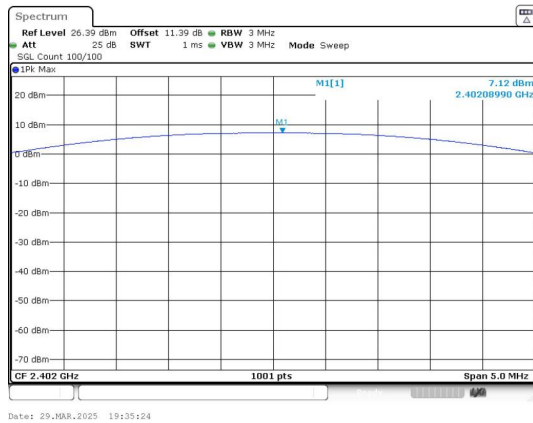
BLE 2M_Channel 39

4) Conducted Output Power

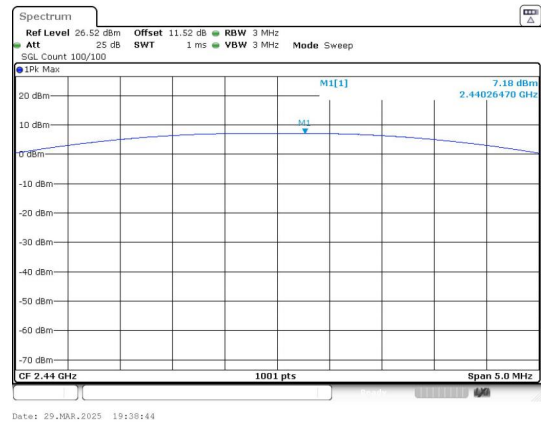
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	7.12	5.15	≤30	PASS
	19	7.18	5.22	≤30	PASS
	39	7.13	5.16	≤30	PASS
BLE 2M	0	7.23	5.28	≤30	PASS
	19	7.42	5.52	≤30	PASS
	39	7.35	5.43	≤30	PASS

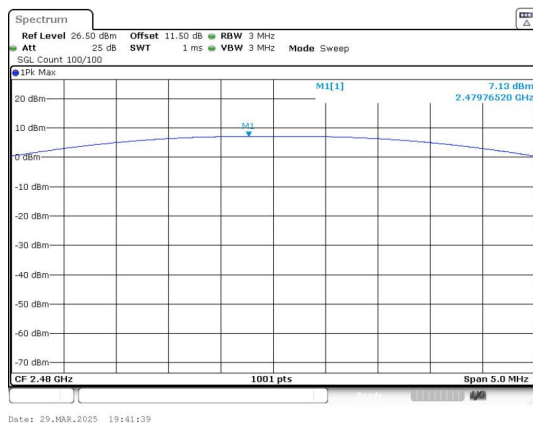
Test Graphs



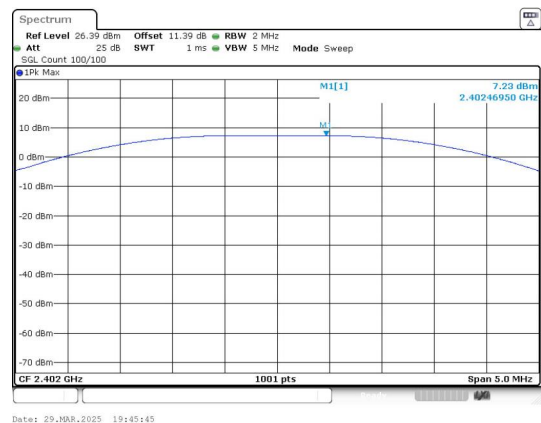
Peak Output Power
BLE 1M_Channel 0



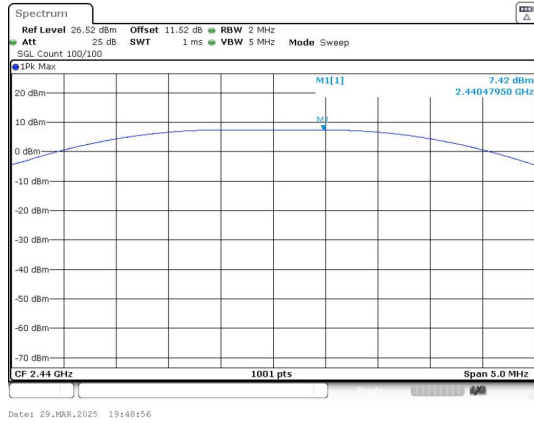
Peak Output Power
BLE 1M_Channel 19



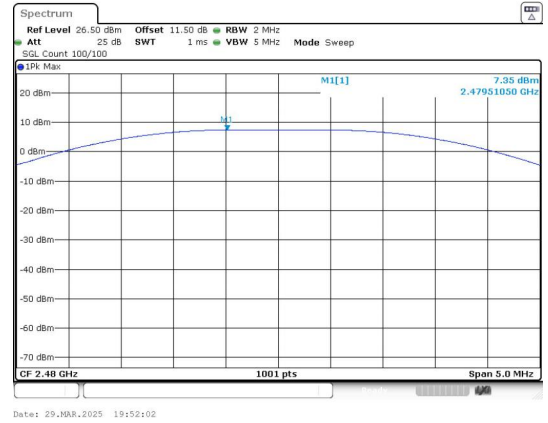
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



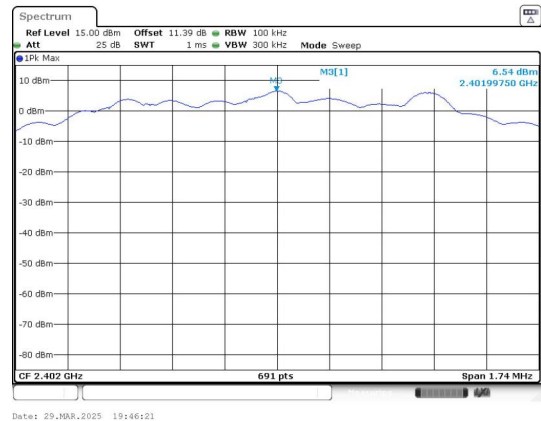
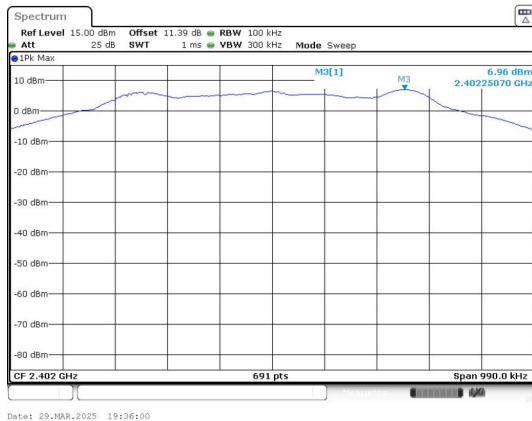
Peak Output Power
BLE 2M_Channel 39

5) Conducted Out Of Band Emission

Test Result

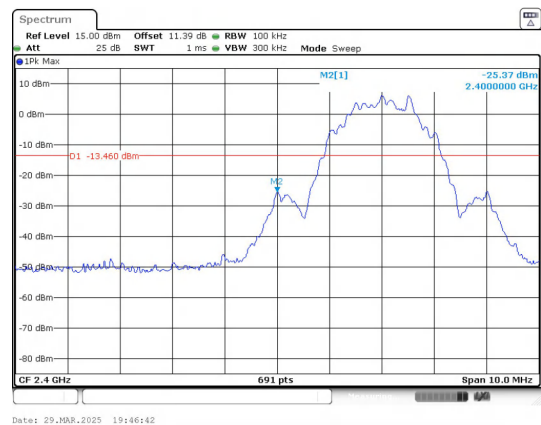
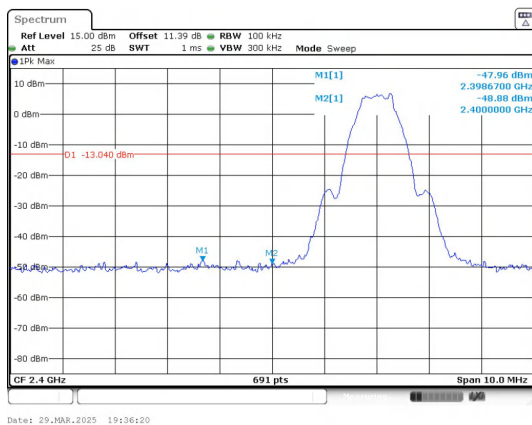
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.67	-47.964	-13.04	-34.924	PASS
		2400.00	-48.880	-13.04	-35.840	PASS
		4804.70	-51.098	-13.04	-38.058	PASS
	19	4880.42	-50.731	-12.92	-37.811	PASS
	39	2483.50	-49.700	-13.0	-36.700	PASS
		6381.12	-51.733	-13.0	-38.733	PASS
BLE 2M	0	2400.00	-25.370	-13.46	-11.910	PASS
		4803.02	-52.264	-13.46	-38.804	PASS
	19	22098.9	-53.518	-13.28	-40.238	PASS
	39	2483.50	-49.290	-13.36	-35.930	PASS
		6996.21	-52.974	-13.36	-39.614	PASS

Test Graphs



In-Band Reference Level
BLE 1M_Channel 0

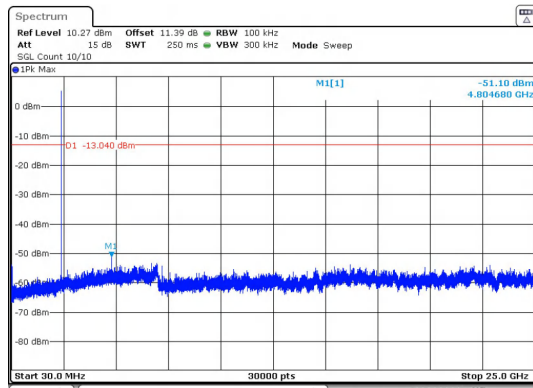
In-Band Reference Level
BLE 2M_Channel 0



Out Of Band Emission

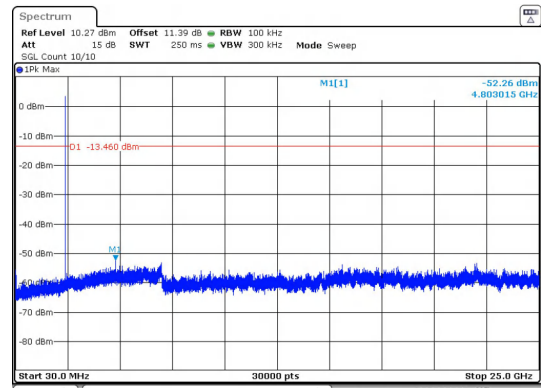
Out Of Band Emission

BLE 1M_Channel 0



Date: 29.MAR.2025 19:36:43

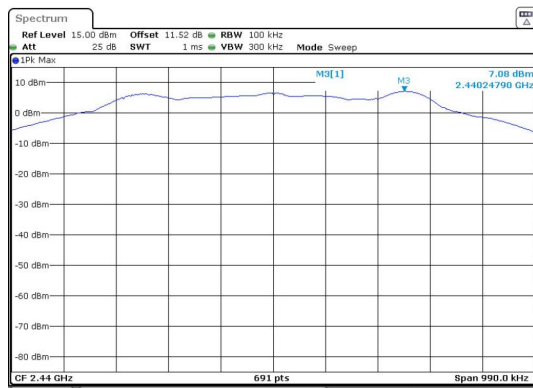
BLE 2M_Channel 0



Date: 29.MAR.2025 19:47:04

30.0 MHz - 25000.0 MHz

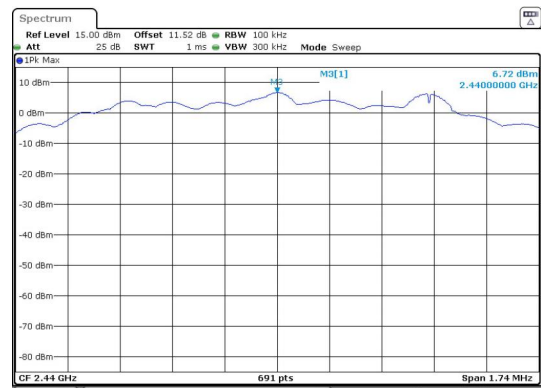
BLE 1M_Channel 0



Date: 29.MAR.2025 19:39:20

30.0 MHz - 25000.0 MHz

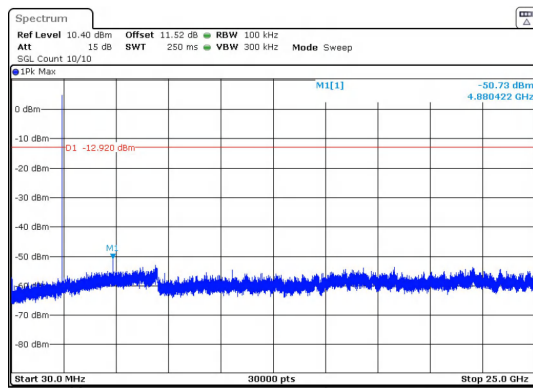
BLE 2M_Channel 0



Date: 29.MAR.2025 19:49:32

In-Band Reference Level

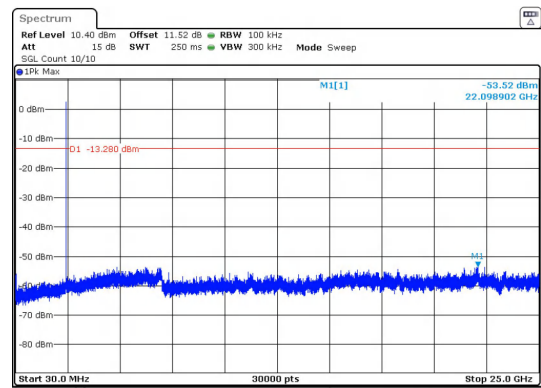
BLE 1M_Channel 19



Date: 29.MAR.2025 19:39:46

In-Band Reference Level

BLE 2M_Channel 19



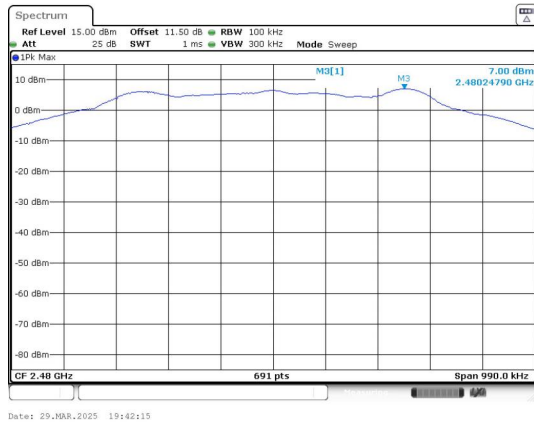
Date: 29.MAR.2025 19:49:58

30.0 MHz - 25000.0 MHz

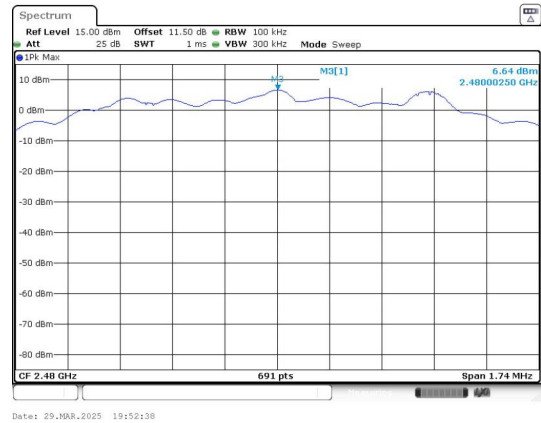
BLE 1M_Channel 19

30.0 MHz - 25000.0 MHz

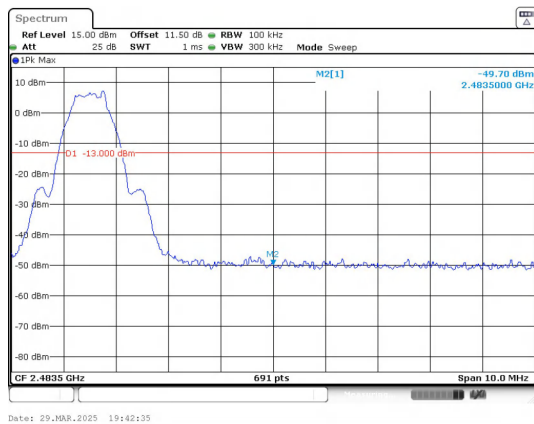
BLE 2M_Channel 19



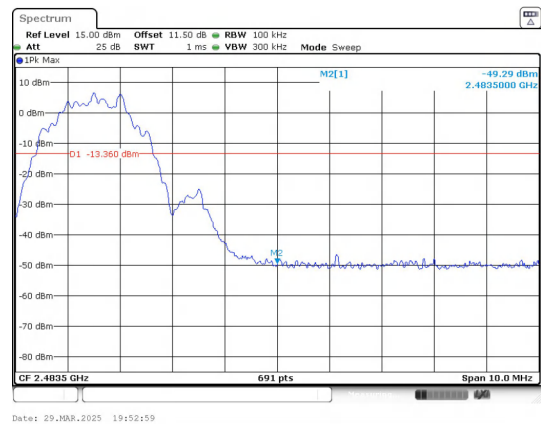
**In-Band Reference Level
BLE 1M_Channel 39**



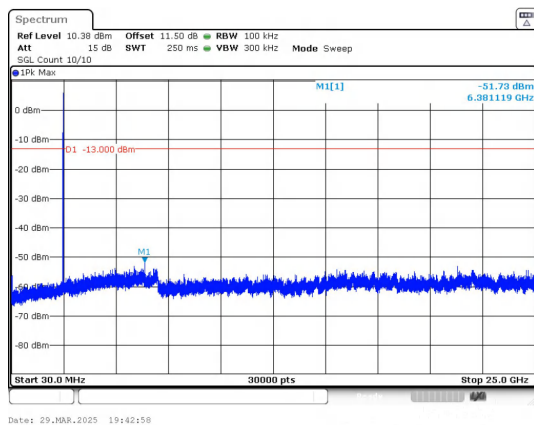
**In-Band Reference Level
BLE 2M_Channel 39**



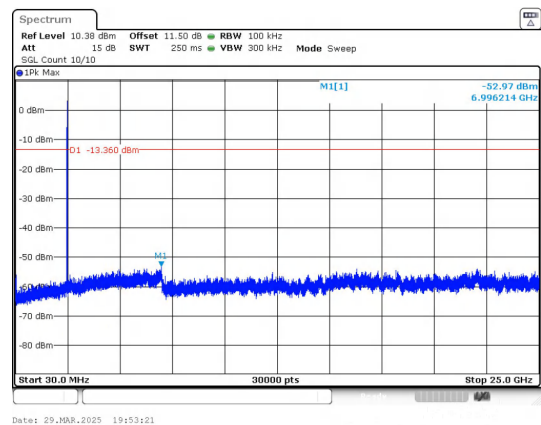
**Out Of Band Emission
BLE 1M_Channel 39**



**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**

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