

Appendix Report

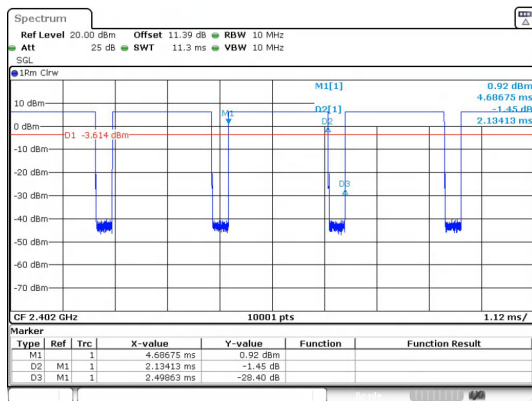
Project No.:	CISRR250221105
Test Engineer:	James Wang
Supervised by:	Rory Huang

1) Duty Cycle

Test Result

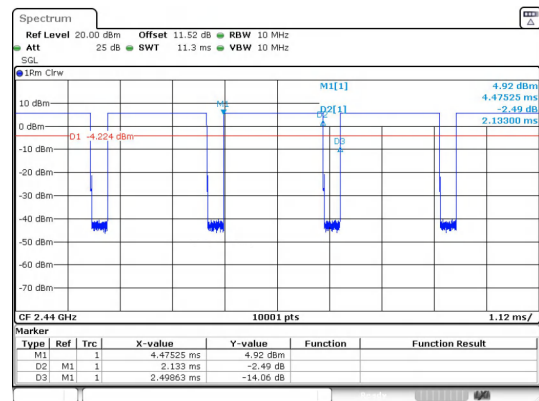
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.134	2.499	85.41	0.8541	0.6849	0.4686
	19	2.133	2.499	85.37	0.8537	0.6869	0.4688
	39	2.134	2.499	85.41	0.8541	0.6849	0.4686
BLE 2M	0	1.077	2.488	43.28	0.4328	3.6371	0.9285
	19	1.081	2.499	43.27	0.4327	3.6381	0.9251
	39	1.082	2.500	43.29	0.4329	3.6361	0.9242

Test Graphs



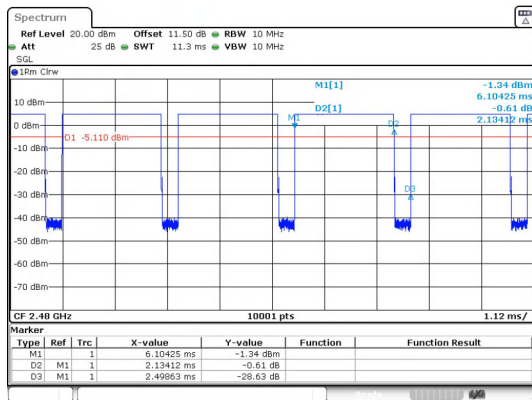
Date: 28.MAR.2025 17:10:134

BLE 1M_Channel 0



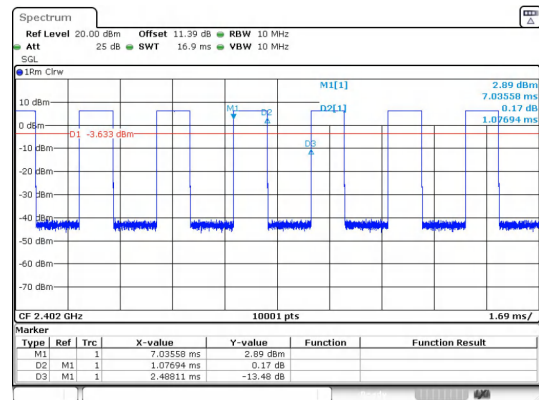
Date: 28.MAR.2025 17:10:146

BLE 1M_Channel 19



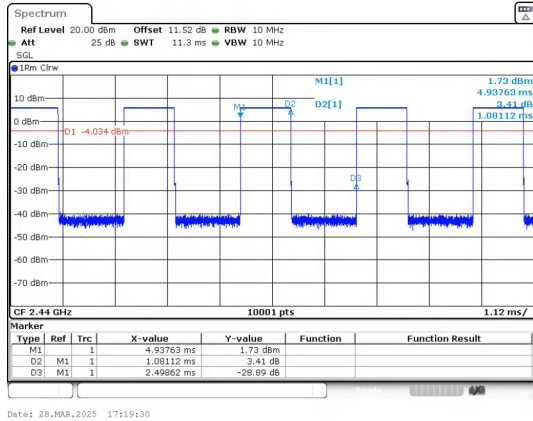
Date: 28.MAR.2025 17:11:158

BLE 1M_Channel 39

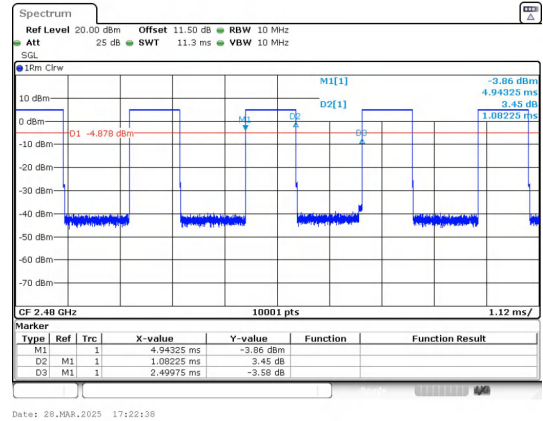


Date: 28.MAR.2025 17:16:135

BLE 2M_Channel 0



BLE 2M_Channel 19



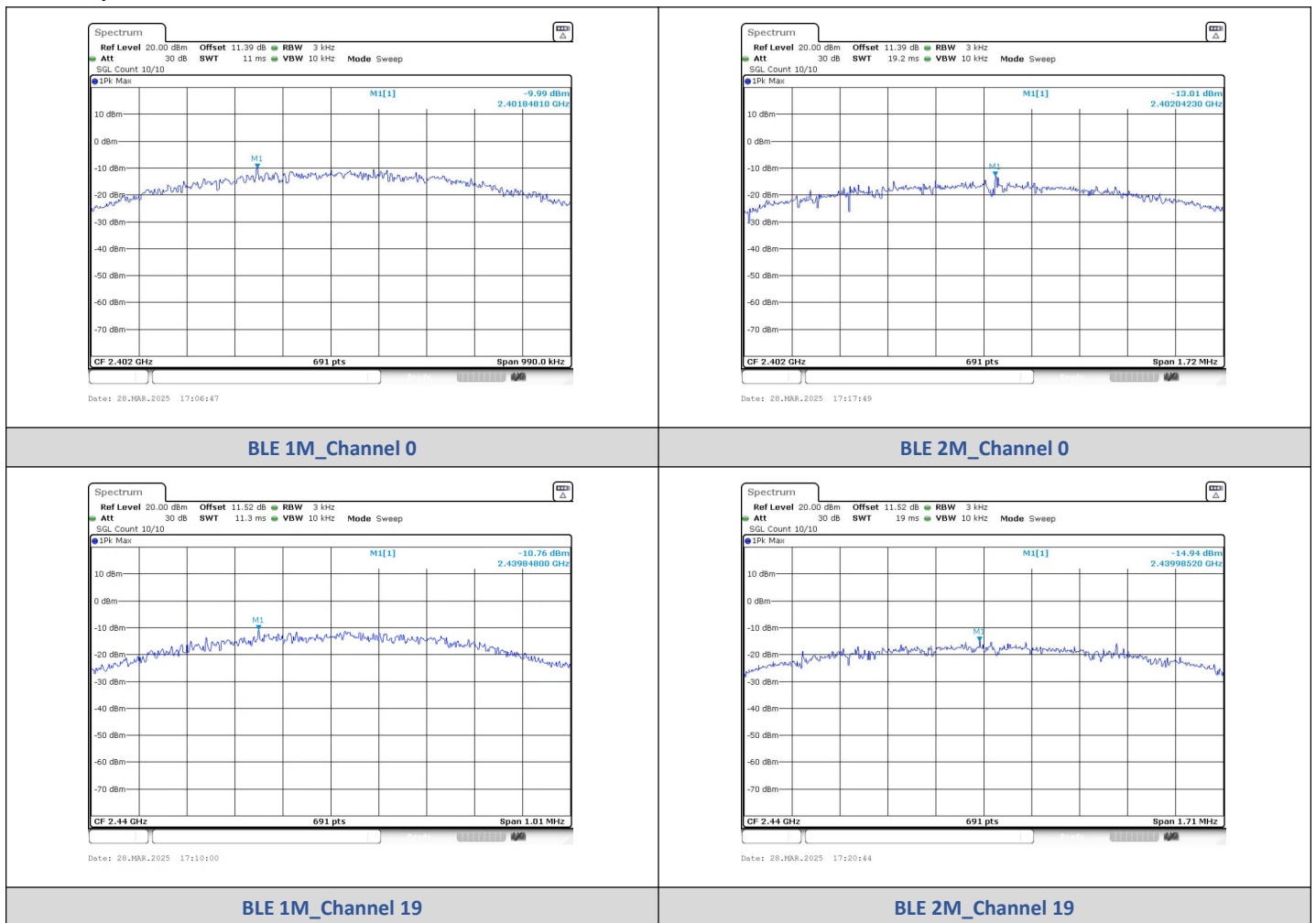
BLE 2M_Channel 39

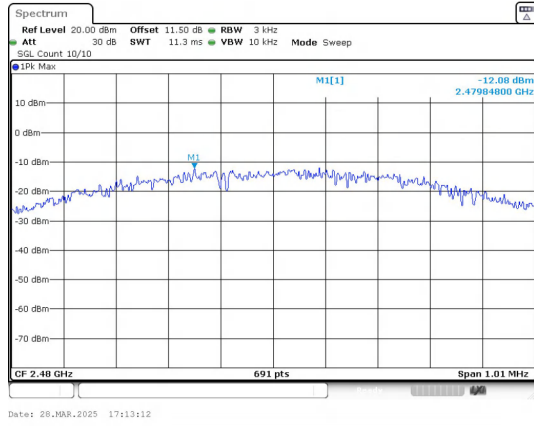
2) Power Spectral Density

Test Result

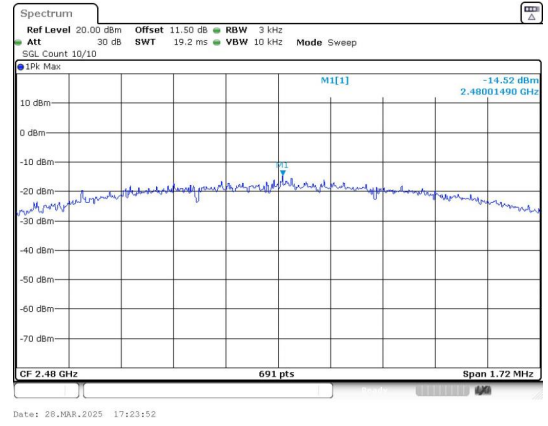
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-9.990	≤8	PASS
BLE 1M	19	-10.760	≤8	PASS
BLE 1M	39	-12.080	≤8	PASS
BLE 2M	0	-13.010	≤8	PASS
BLE 2M	19	-14.940	≤8	PASS
BLE 2M	39	-14.520	≤8	PASS

Test Graphs





BLE 1M_Channel 39



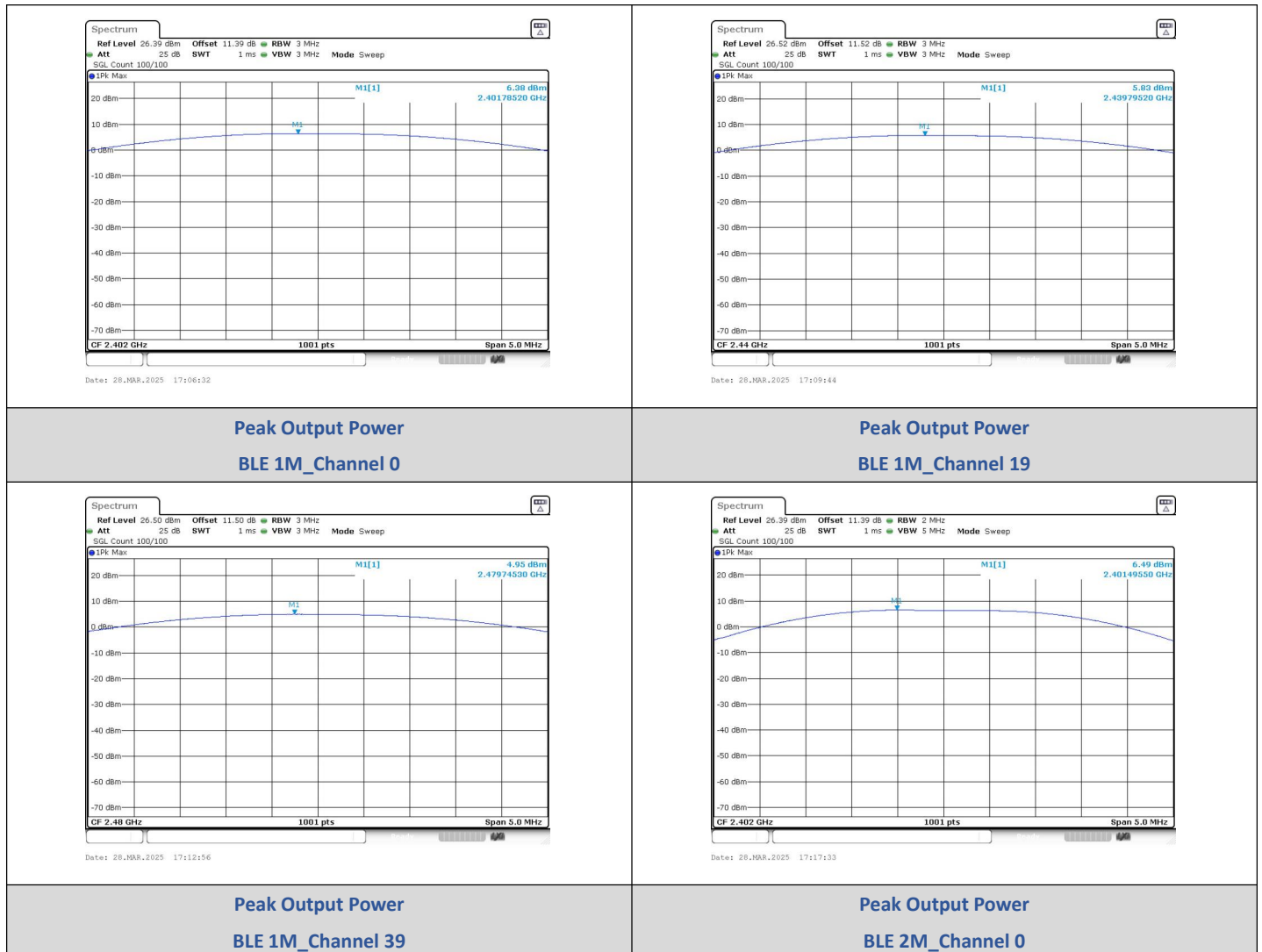
BLE 2M_Channel 39

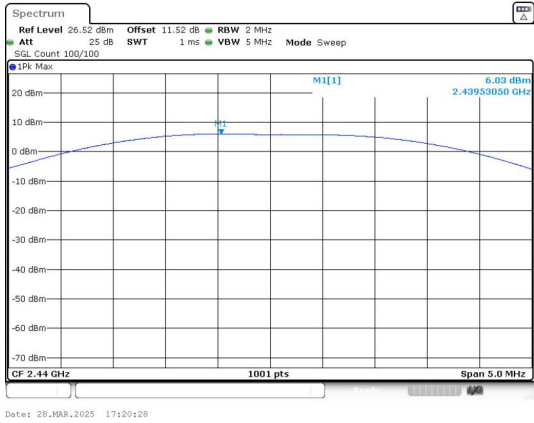
3) Conducted Output Power

Test Result

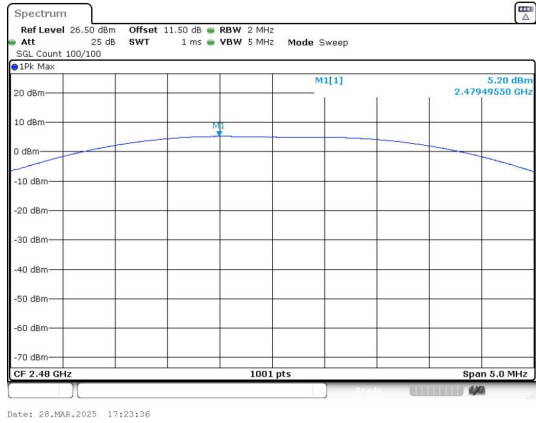
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	6.38	4.35	≤30	PASS
	19	5.83	3.83	≤30	PASS
	39	4.95	3.13	≤30	PASS
BLE 2M	0	6.49	4.46	≤30	PASS
	19	6.03	4.01	≤30	PASS
	39	5.20	3.31	≤30	PASS

Test Graphs





Peak Output Power
BLE 2M_Channel 19



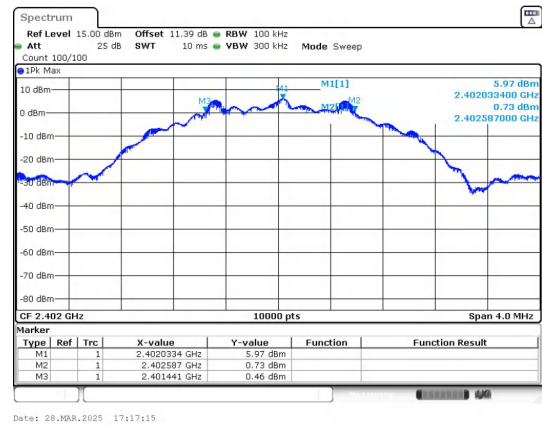
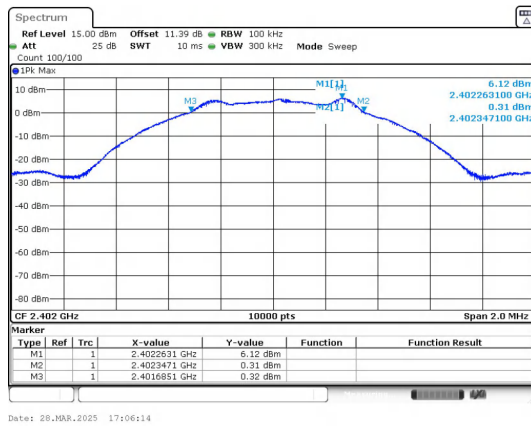
Peak Output Power
BLE 2M_Channel 39

4) 6dB Bandwidth

Test Result

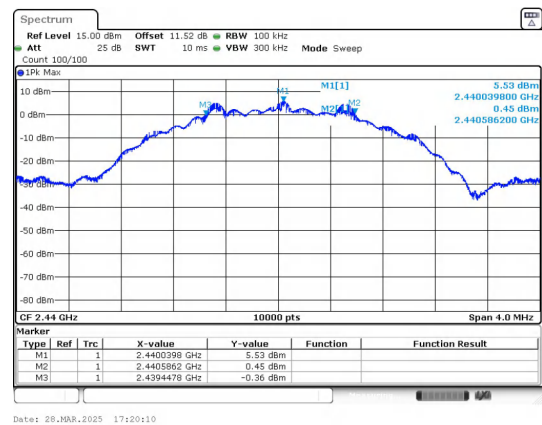
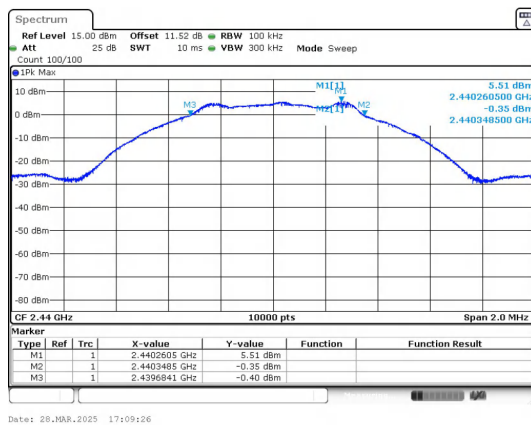
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6700		PASS
	39	2480	0.6700		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.140		PASS
	39	2480	1.150		PASS

Test Graphs



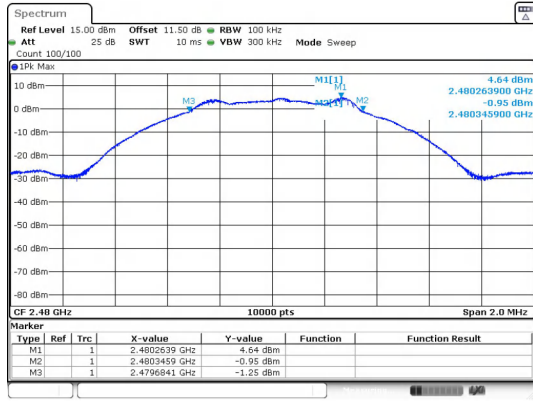
BLE 1M_Channel 0

BLE 2M_Channel 0

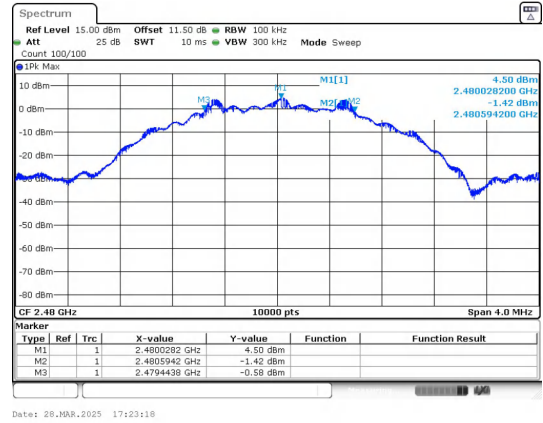


BLE 1M_Channel 19

BLE 2M_Channel 19



BLE 1M_Channel 39



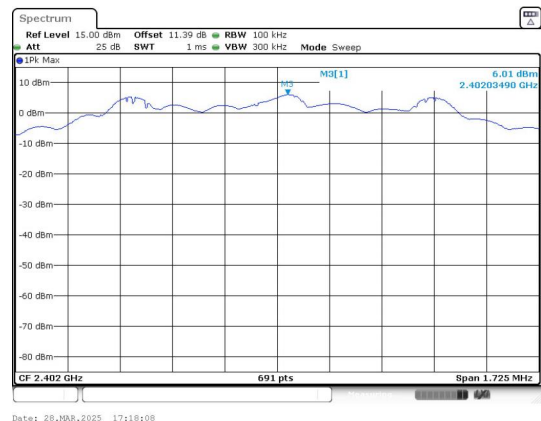
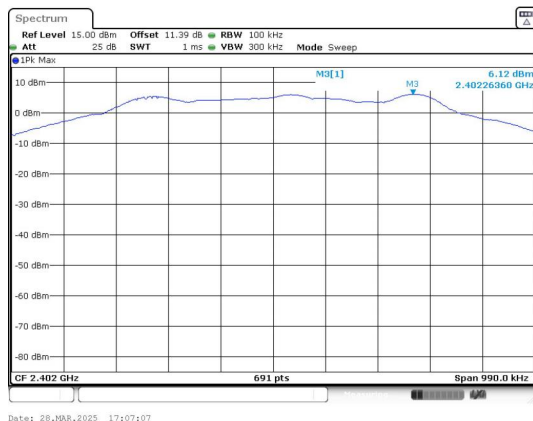
BLE 2M_Channel 39

5) Conducted Out Of Band Emission

Test Result

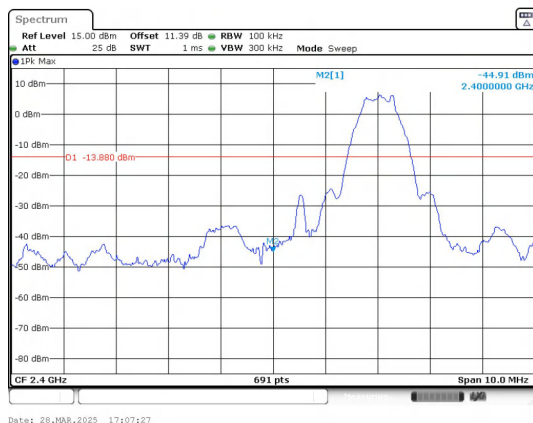
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-37.091	-13.88	-23.211	PASS
		2400.00	-44.910	-13.88	-31.030	PASS
		9602.20	-41.393	-13.88	-27.513	PASS
	19	9753.73	-40.116	-14.46	-25.656	PASS
	39	2483.50	-45.010	-15.35	-29.660	PASS
		9914.37	-37.266	-15.35	-21.916	PASS
BLE 2M	0	2400.00	-26.340	-13.99	-12.350	PASS
		9602.25	-41.610	-13.99	-27.620	PASS
	19	9753.73	-40.032	-14.46	-25.572	PASS
	39	2483.50	-50.120	-15.36	-34.760	PASS
		9914.37	-36.978	-15.36	-21.618	PASS

Test Graphs



In-Band Reference Level
BLE 1M_Channel 0

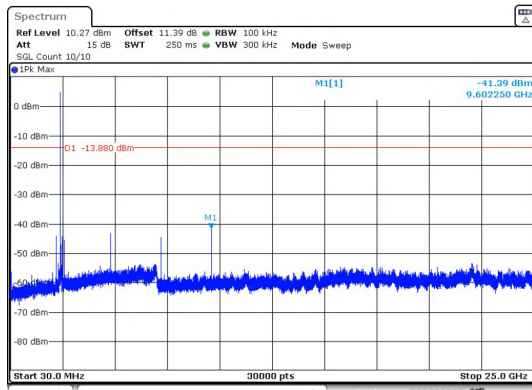
In-Band Reference Level
BLE 2M_Channel 0



Out Of Band Emission

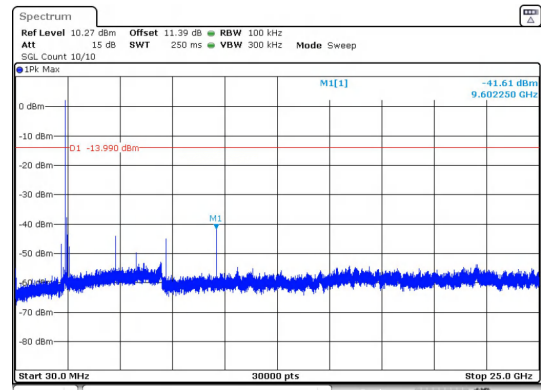
Out Of Band Emission

BLE 1M_Channel 0



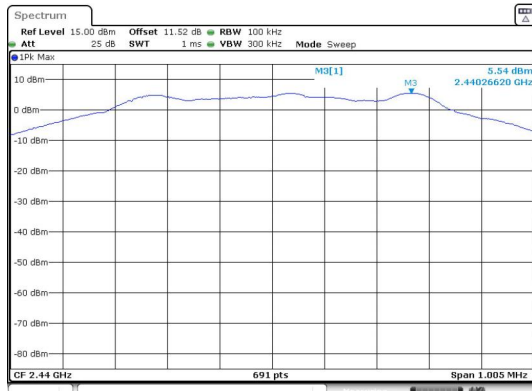
Date: 28.MAR.2025 17:07:49

BLE 2M_Channel 0



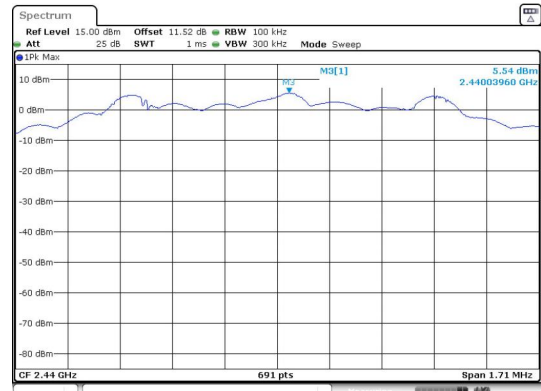
Date: 28.MAR.2025 17:18:51

30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



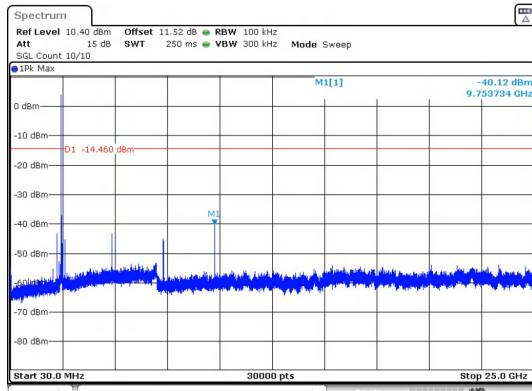
Date: 28.MAR.2025 17:10:19

30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



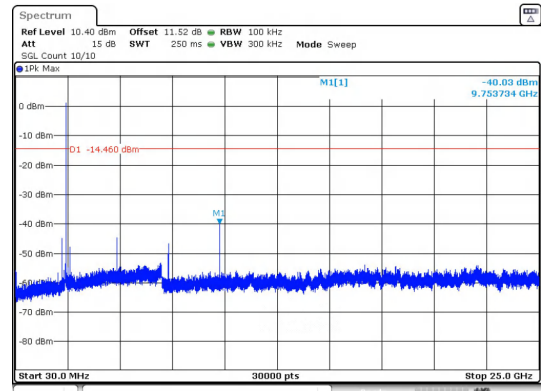
Date: 28.MAR.2025 17:21:03

In-Band Reference Level
BLE 1M_Channel 19



Date: 28.MAR.2025 17:10:44

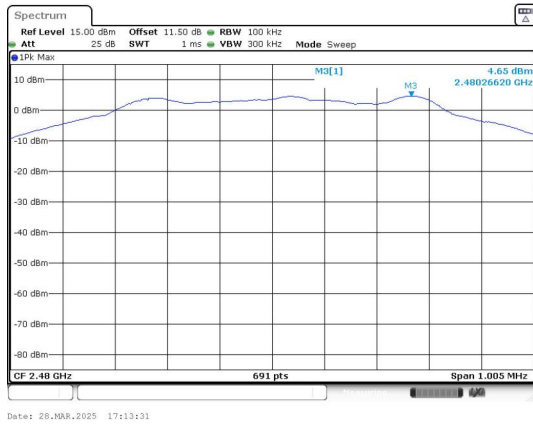
In-Band Reference Level
BLE 2M_Channel 19



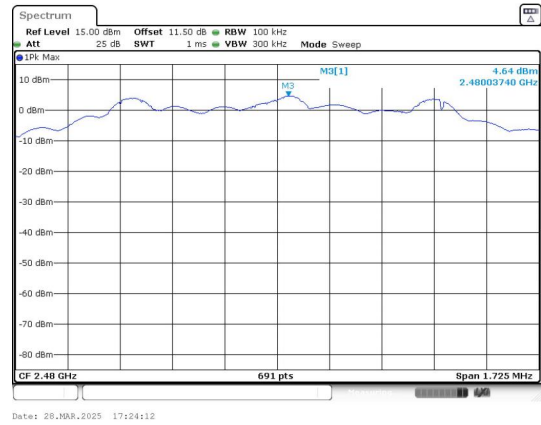
Date: 28.MAR.2025 17:21:28

30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19

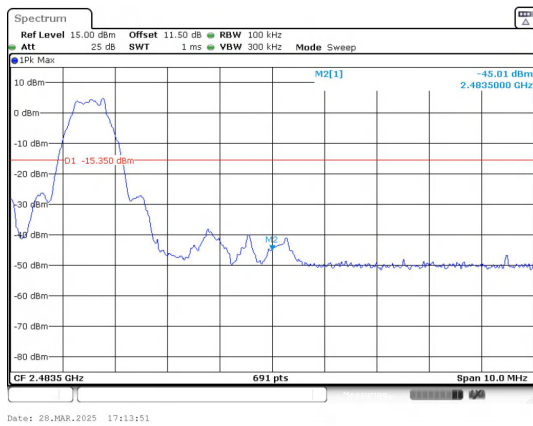
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



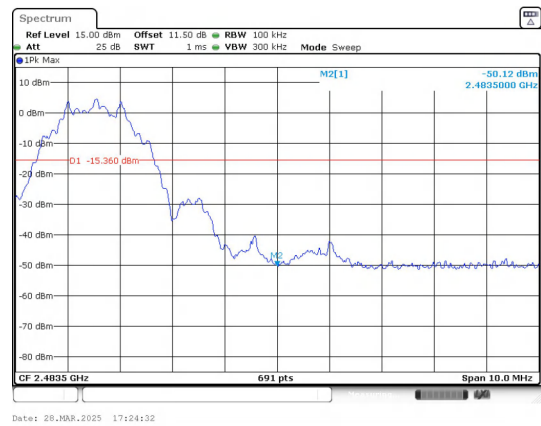
**In-Band Reference Level
BLE 1M_Channel 39**



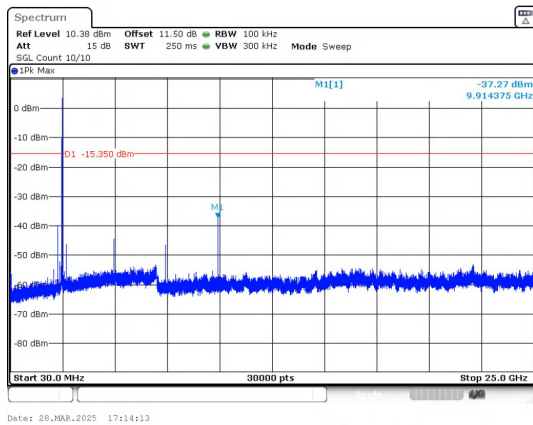
**In-Band Reference Level
BLE 2M_Channel 39**



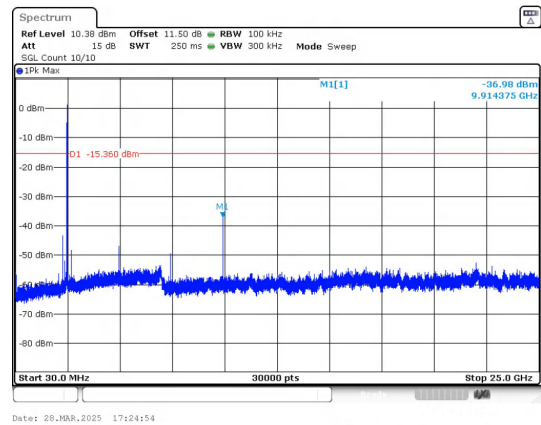
**Out Of Band Emission
BLE 1M_Channel 39**



**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-----