Appendix Report

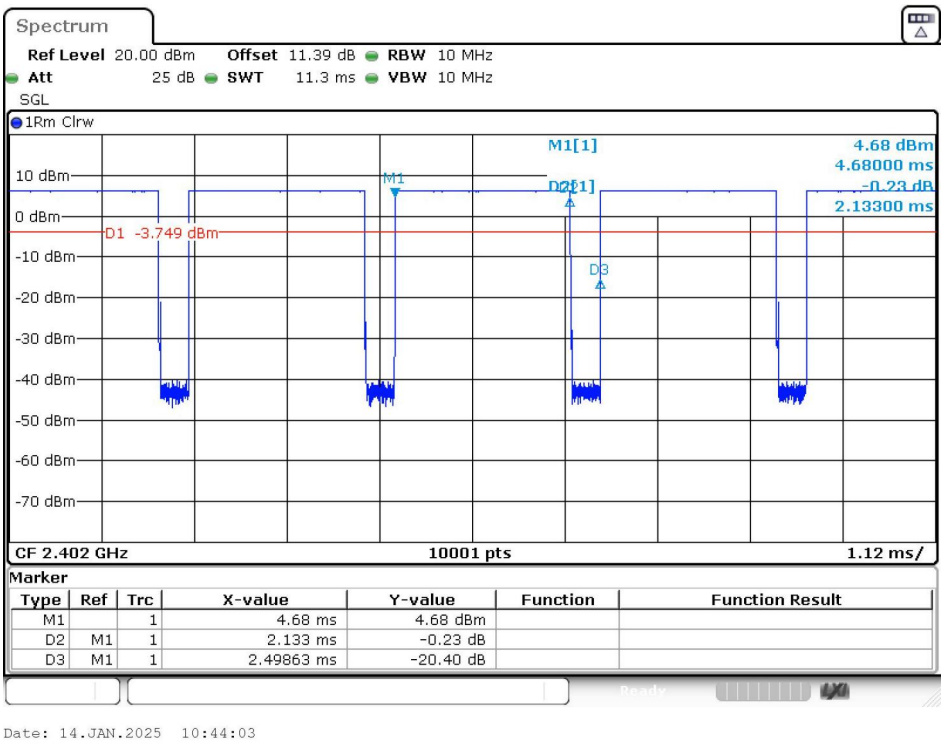
Report No.:	CISRR25010804304
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

1) Duty Cycle

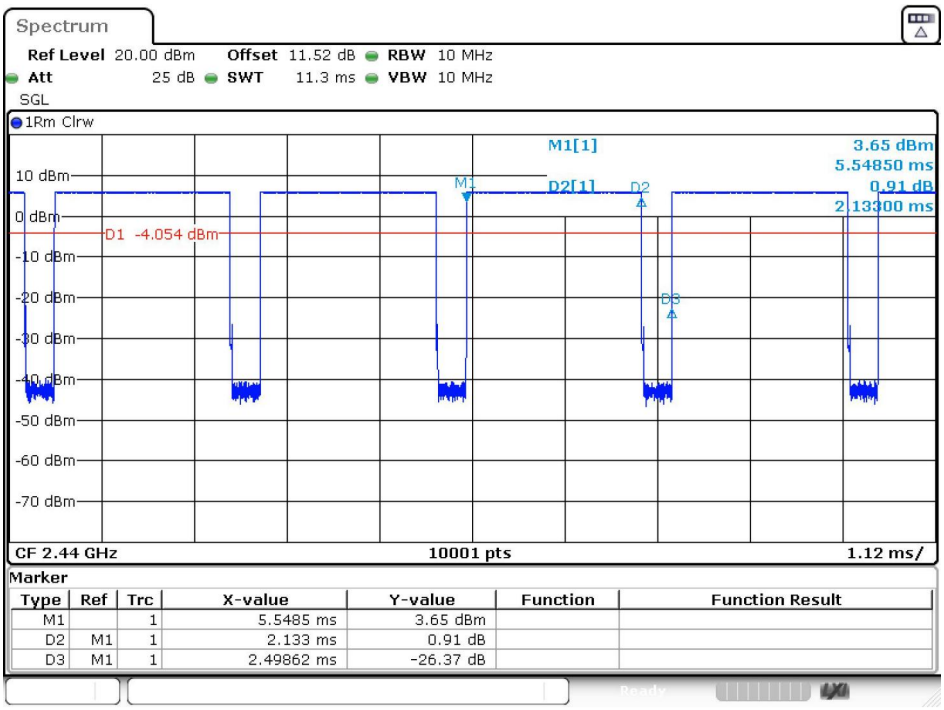
Test Result

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	1.075	2.482	43.29	0.4329	3.6361	0.9302
	39	1.081	2.499	43.27	0.4327	3.6381	0.9251

Test Graphs

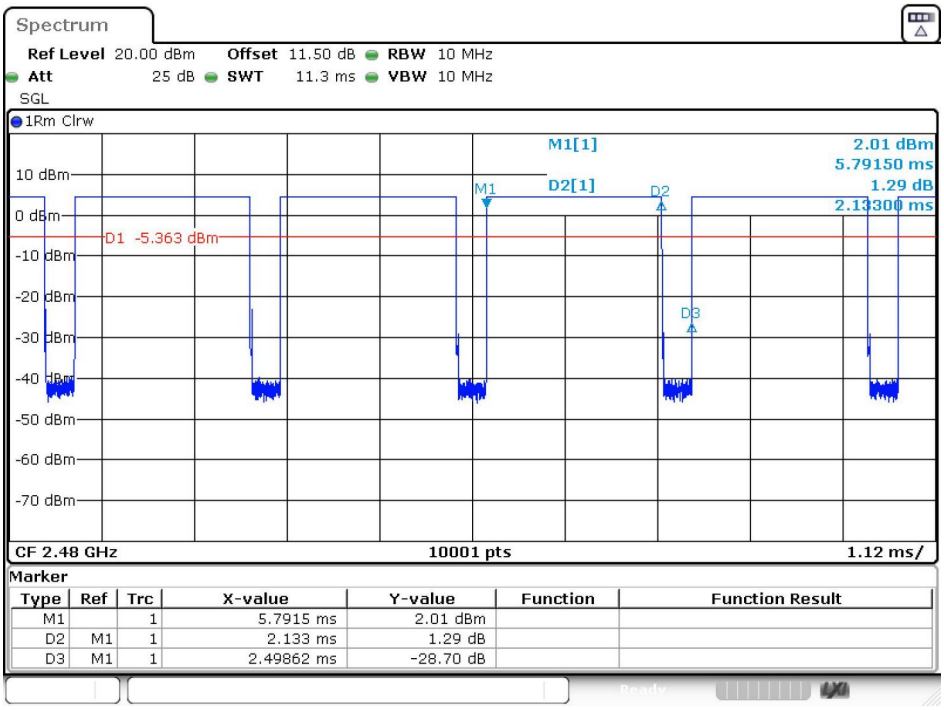


BLE 1M_Channel 0



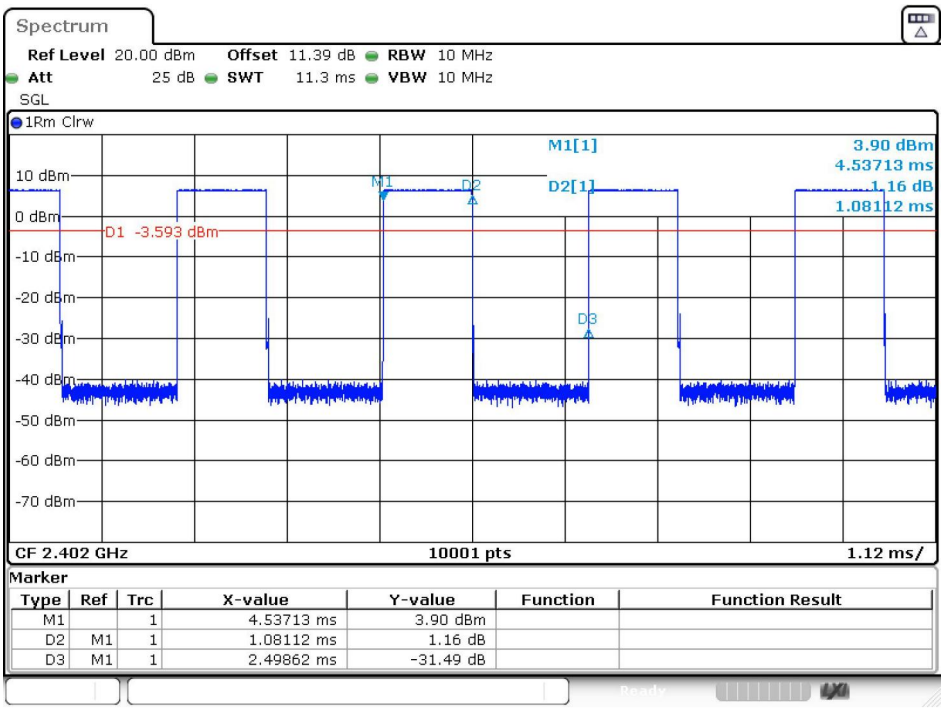
Date: 14.JAN.2025 10:46:40

BLE 1M_Channel 19

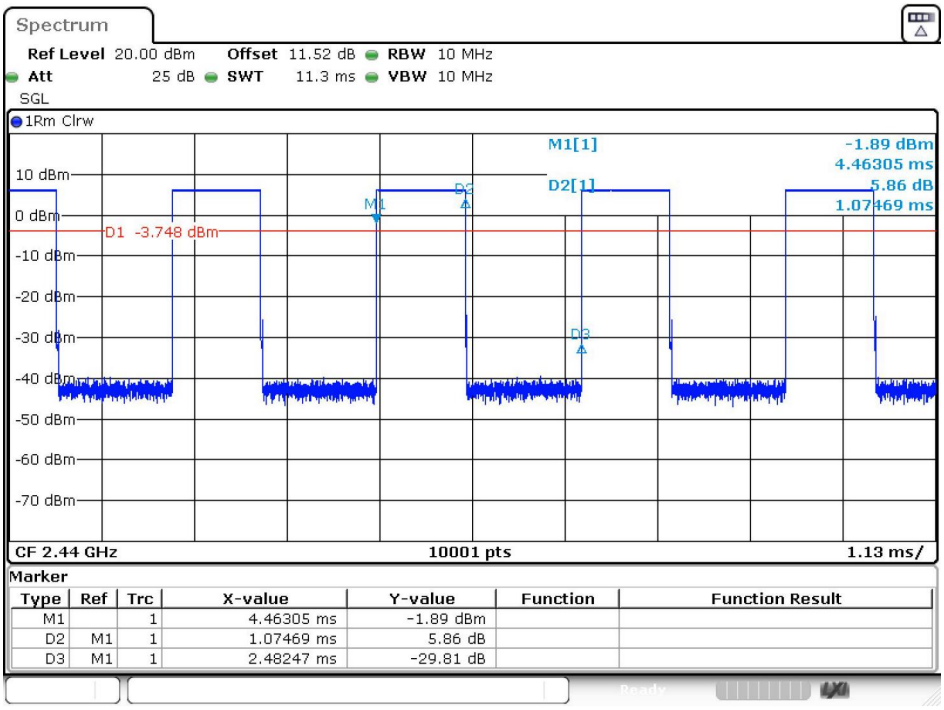


Date: 14.JAN.2025 10:49:04

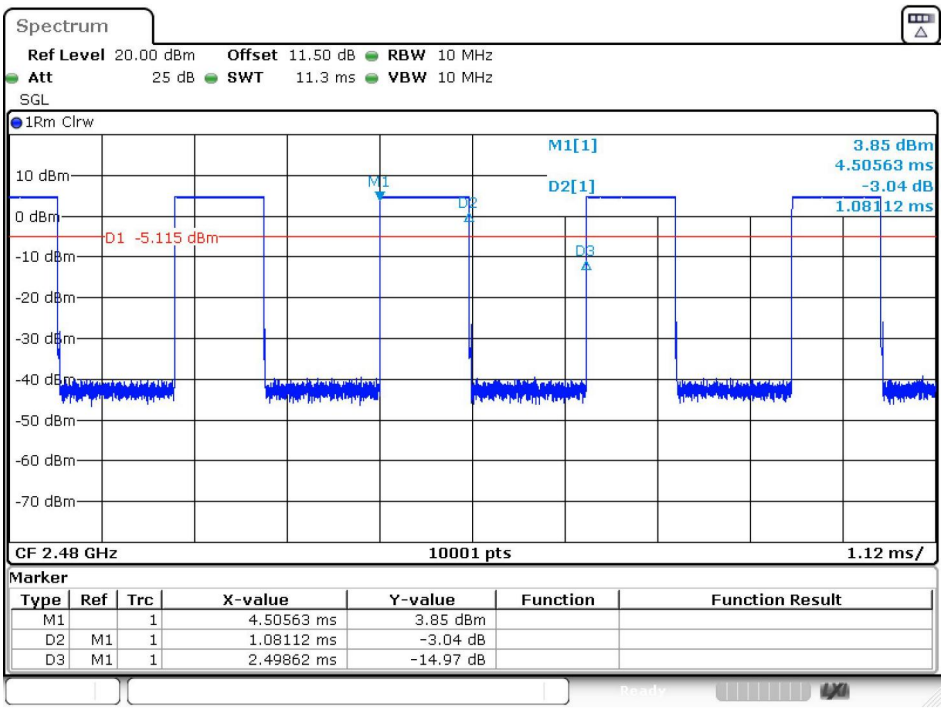
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



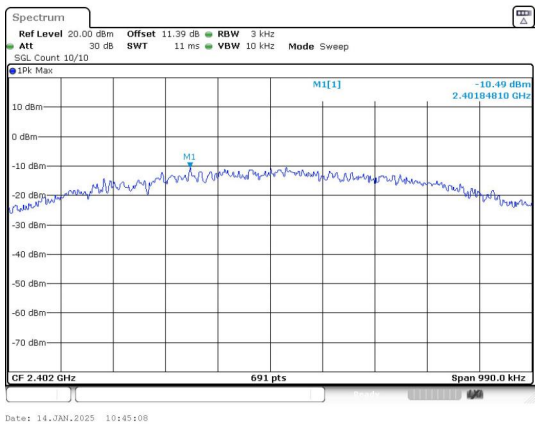
BLE 2M_Channel 39

2) Power Spectral Density

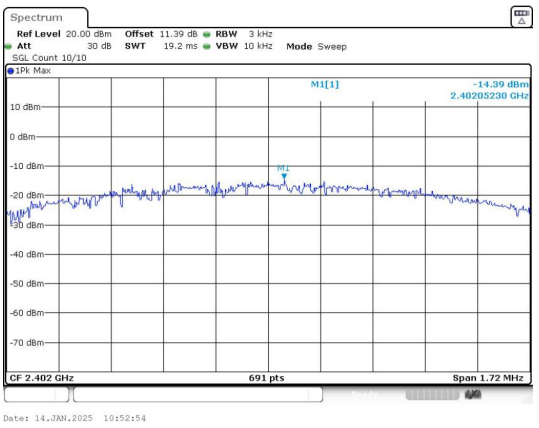
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-10.490	≤8	PASS
BLE 1M	19	-11.000	≤8	PASS
BLE 1M	39	-11.880	≤8	PASS
BLE 2M	0	-14.390	≤8	PASS
BLE 2M	19	-12.310	≤8	PASS
BLE 2M	39	-14.700	≤8	PASS

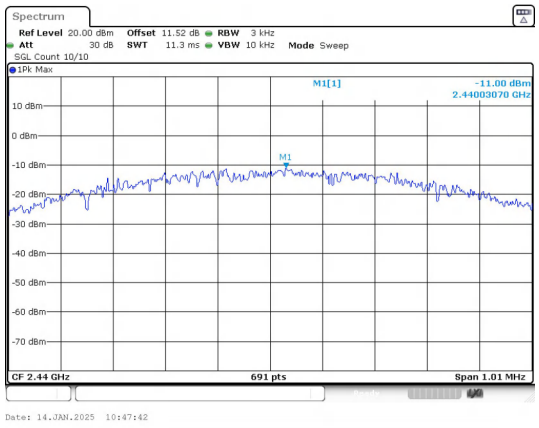
Test Graphs



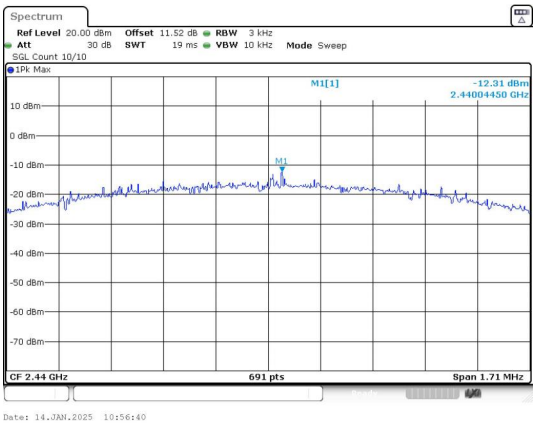
BLE 1M_Channel 0



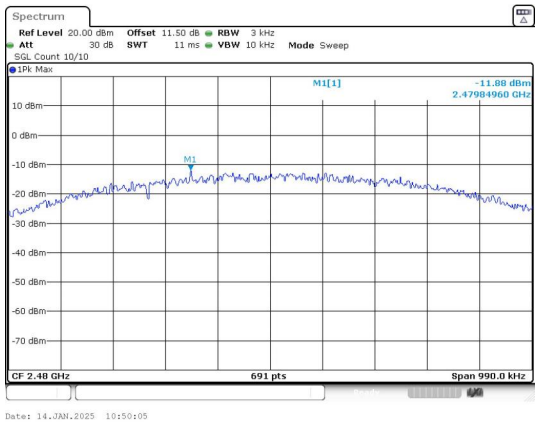
BLE 2M_Channel 0



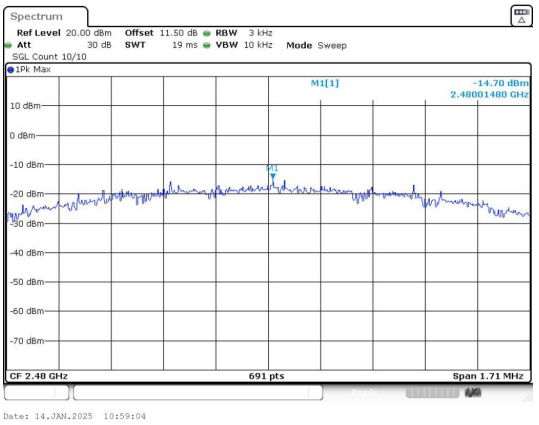
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



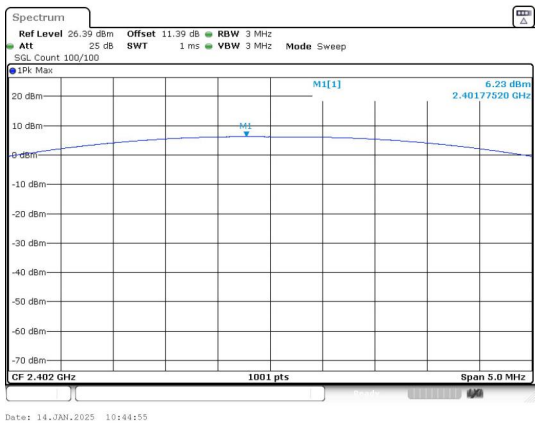
BLE 2M_Channel 39

3) Conducted Output Power

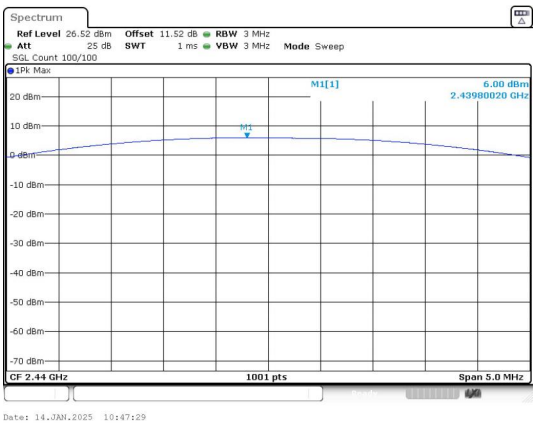
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	6.23	4.2	≤30	PASS
	19	6.00	3.98	≤30	PASS
	39	4.72	2.96	≤30	PASS
BLE 2M	0	6.51	4.48	≤30	PASS
	19	6.28	4.25	≤30	PASS
	39	4.92	3.1	≤30	PASS

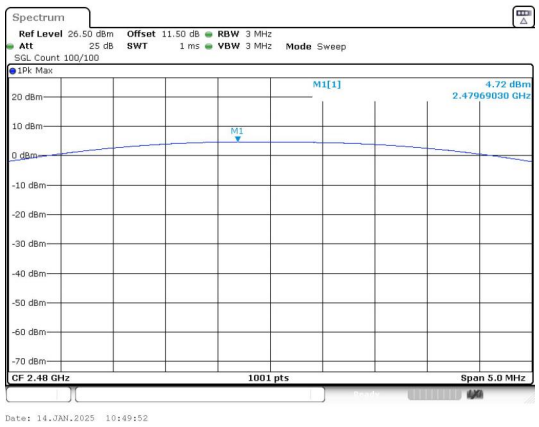
Test Graphs



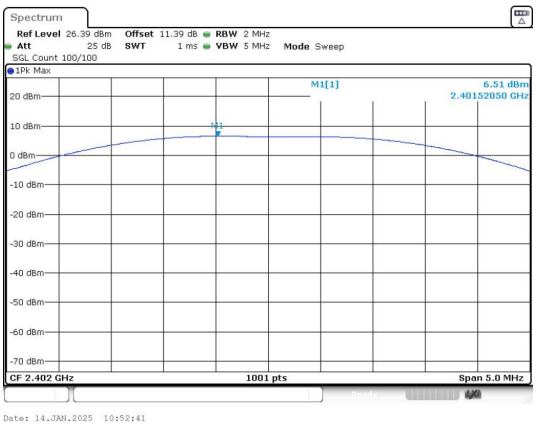
Peak Output Power
BLE 1M_Channel 0



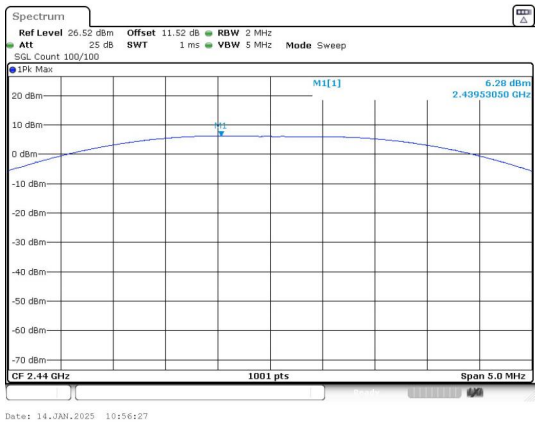
Peak Output Power
BLE 1M_Channel 19



Peak Output Power
BLE 1M_Channel 39

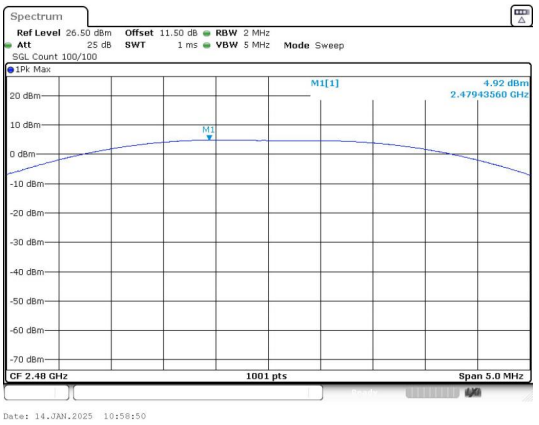


Peak Output Power
BLE 2M_Channel 0



Peak Output Power

BLE 2M_Channel 19



Peak Output Power

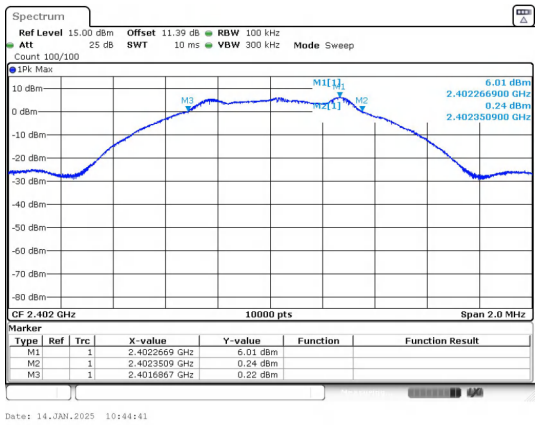
BLE 2M_Channel 39

4) 6dB Bandwidth

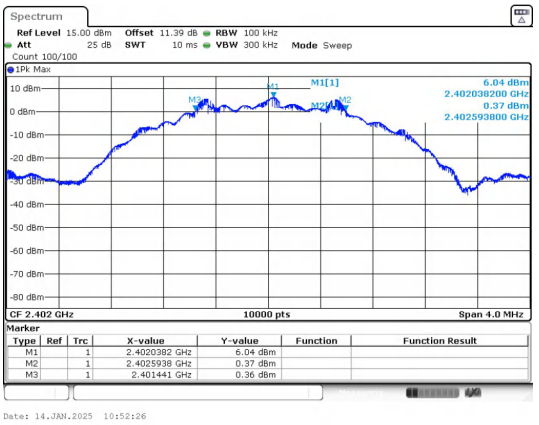
Test Result

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	0.6600		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.140		PASS
	39	2480	1.140		PASS

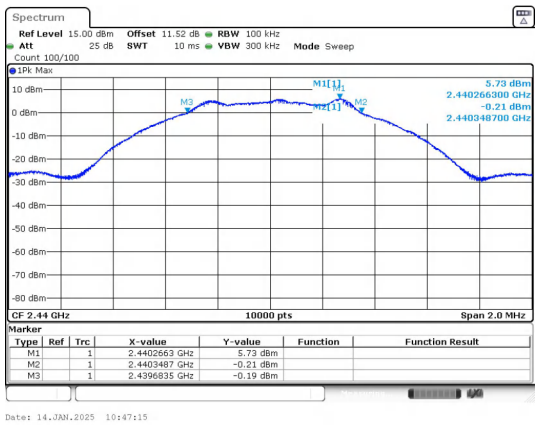
Test Graphs



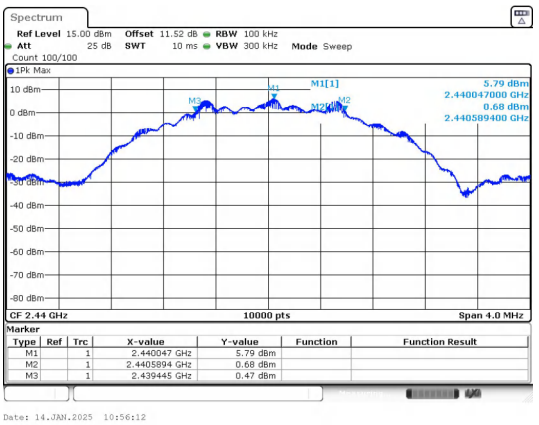
BLE 1M_Channel 0



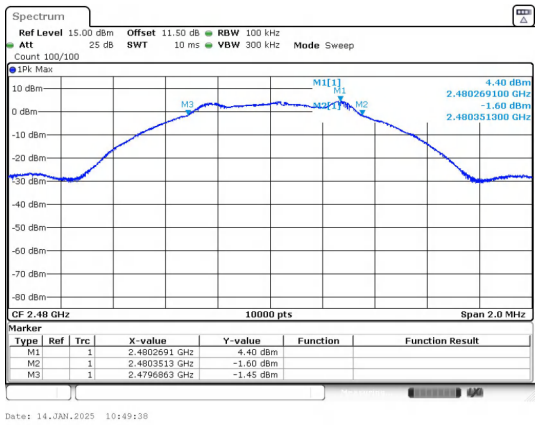
BLE 2M_Channel 0



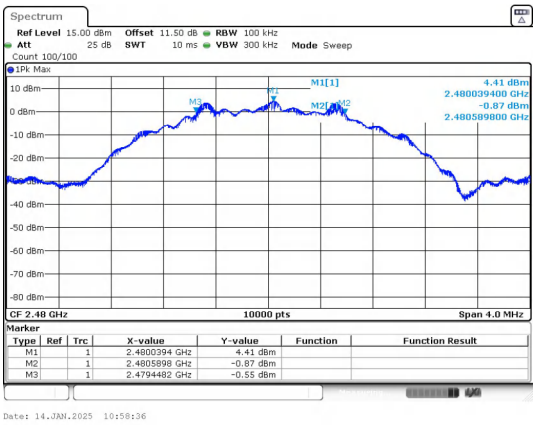
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



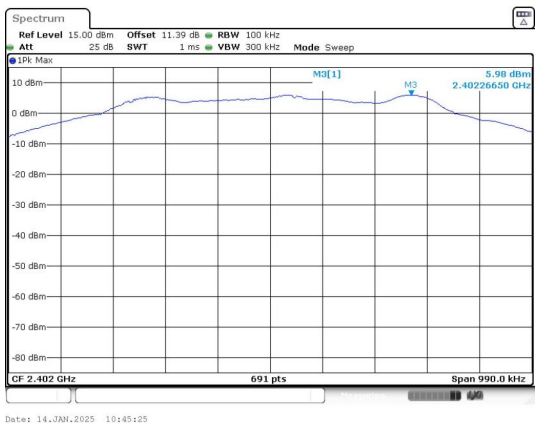
BLE 2M_Channel 39

5) Conducted Out Of Band Emission

Test Result

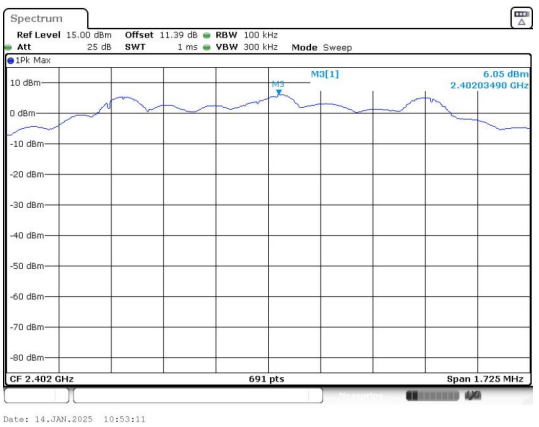
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-41.596	-14.02	-27.576	PASS
		2400.00	-44.150	-14.02	-30.130	PASS
		7206.80	-41.835	-14.02	-27.815	PASS
	19	9753.73	-39.599	-14.25	-25.349	PASS
	39	2483.50	-45.310	-15.56	-29.750	PASS
		9914.37	-37.158	-15.56	-21.598	PASS
BLE 2M	0	2400.00	-26.110	-13.95	-12.160	PASS
		9602.25	-41.127	-13.95	-27.177	PASS
	19	9753.73	-40.102	-14.2	-25.902	PASS
	39	2483.50	-50.100	-15.57	-34.530	PASS
		9914.37	-36.839	-15.57	-21.269	PASS

Test Graphs



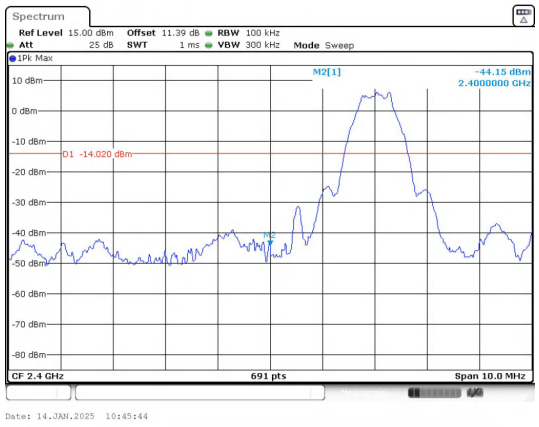
In-Band Reference Level

BLE 1M_Channel 0

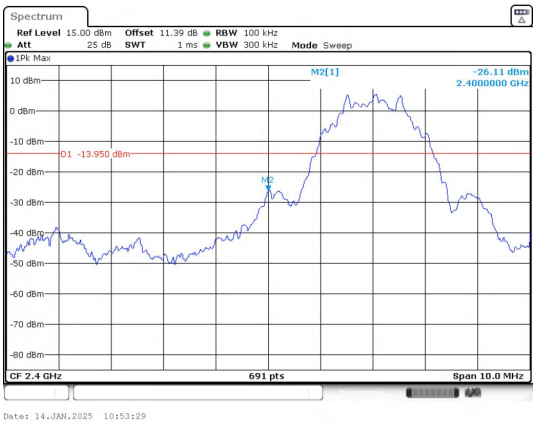


In-Band Reference Level

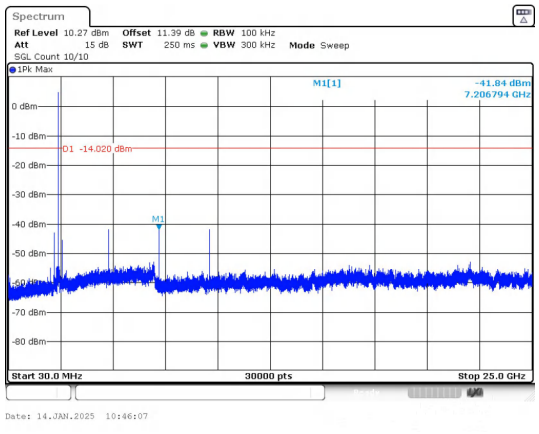
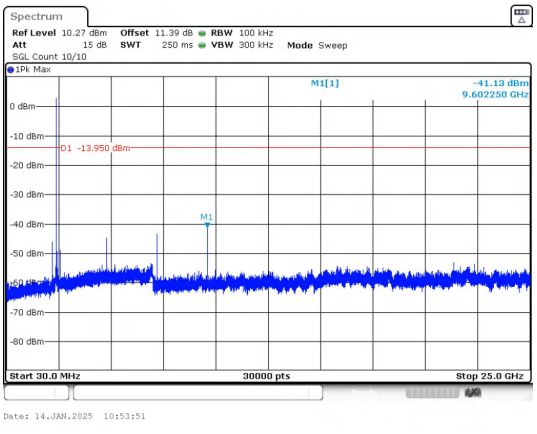
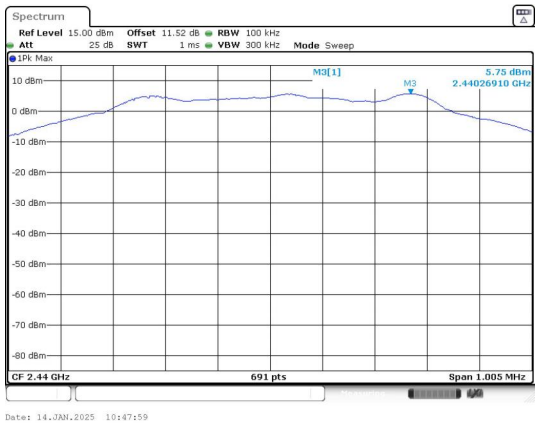
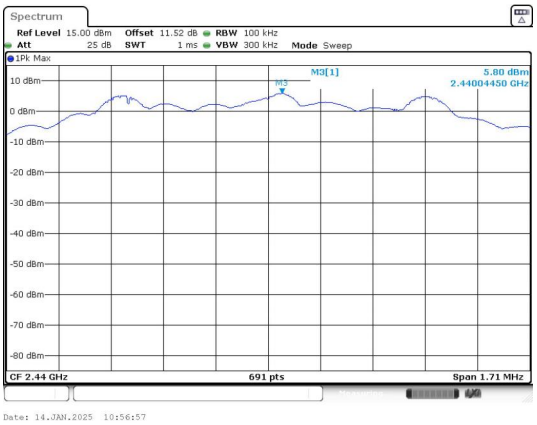
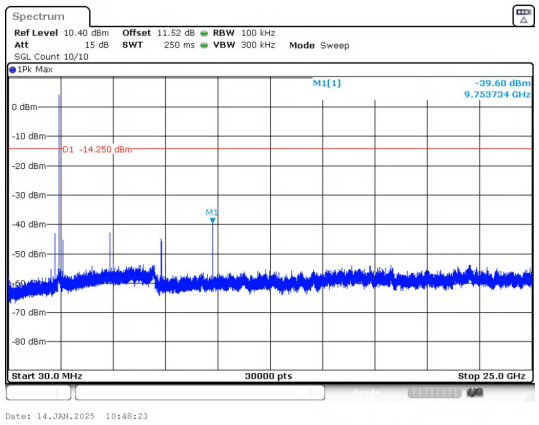
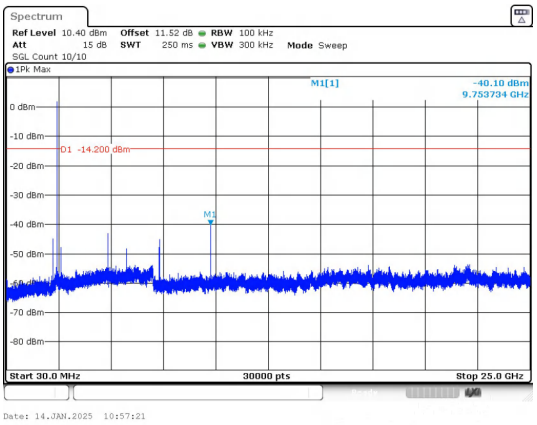
BLE 2M_Channel 0

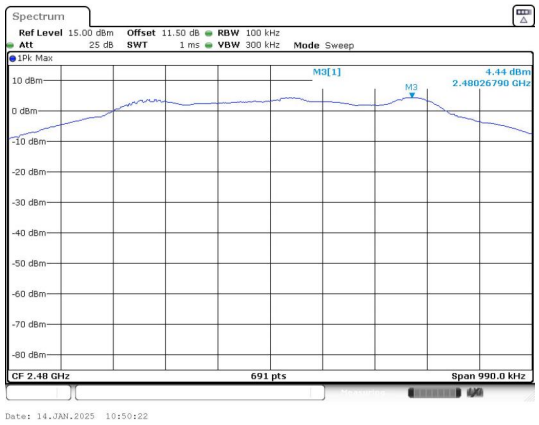


Out Of Band Emission



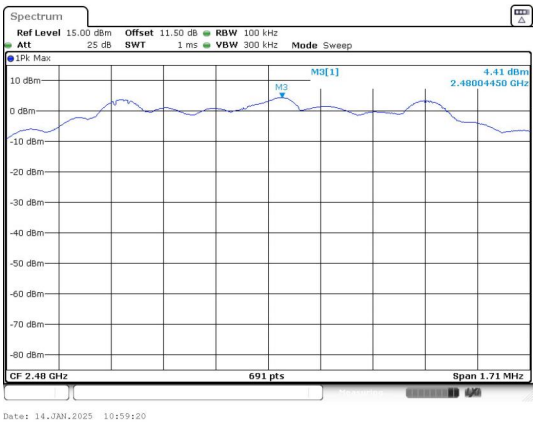
Out Of Band Emission

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



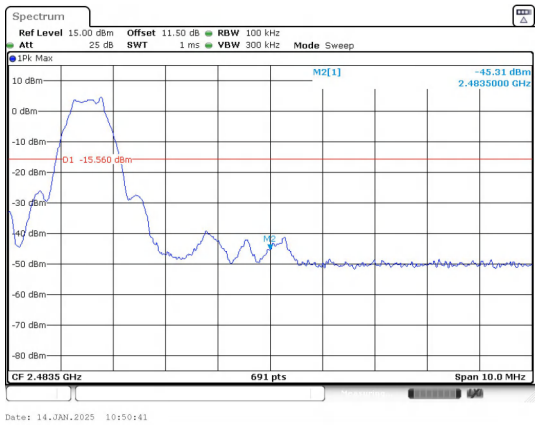
In-Band Reference Level

BLE 1M_Channel 39



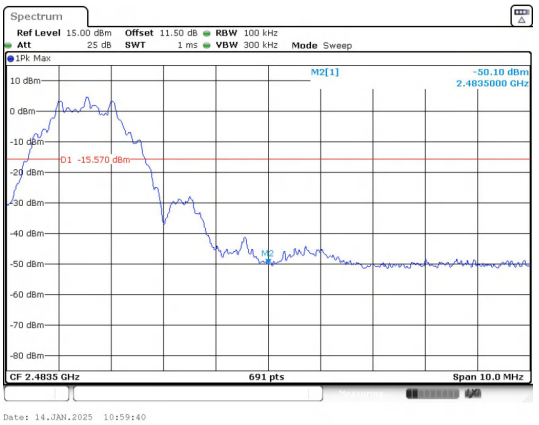
In-Band Reference Level

BLE 2M_Channel 39



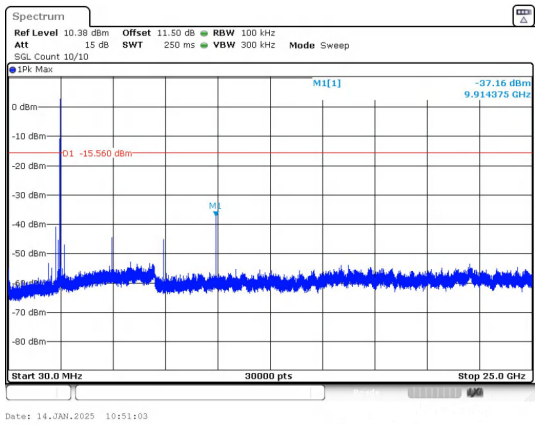
Out Of Band Emission

BLE 1M_Channel 39



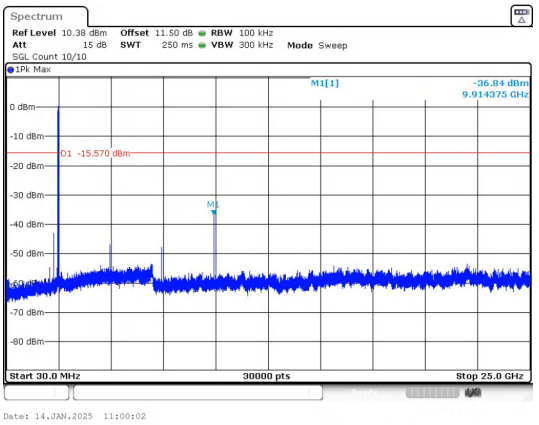
Out Of Band Emission

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-----