Appendix Report

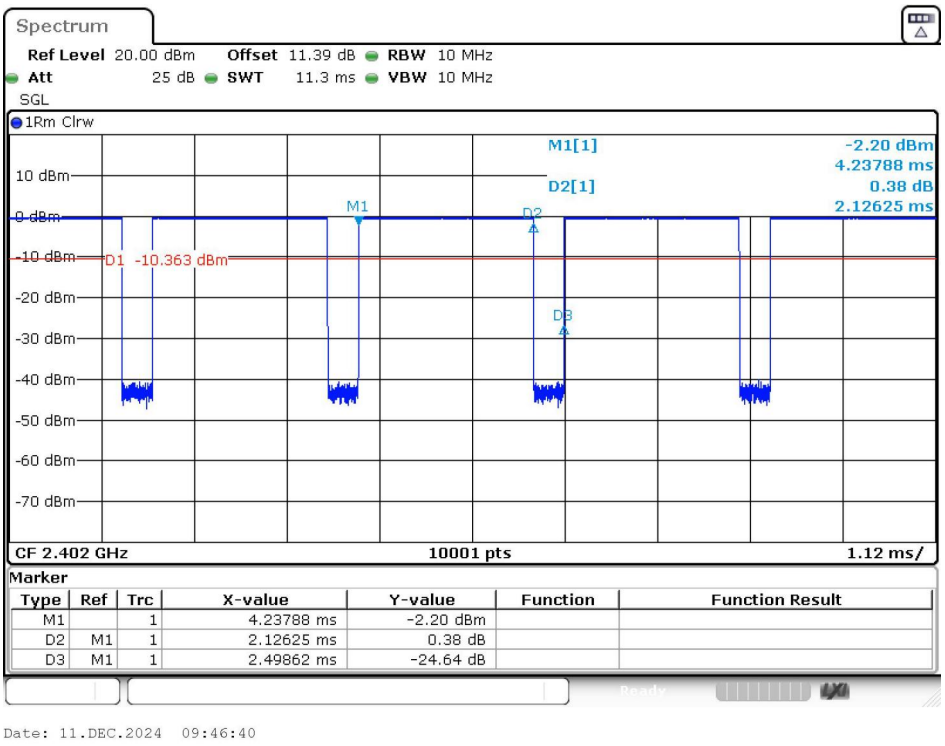
Report No.:	CISRR24120707002
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

1) Duty Cycle

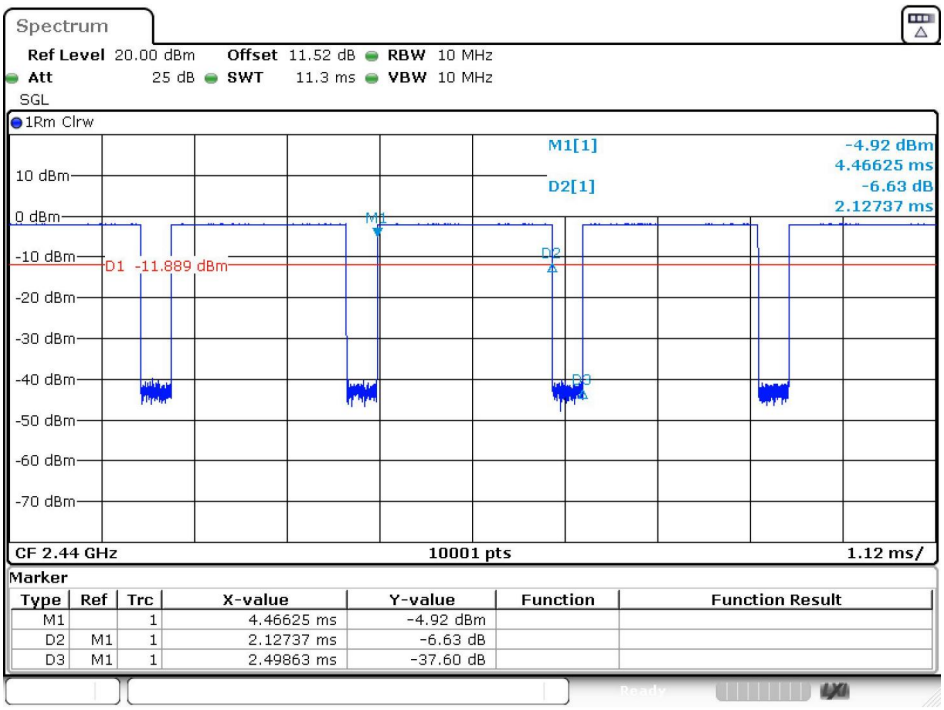
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.126	2.499	85.10	0.8510	0.7007	0.4704
	19	2.127	2.499	85.14	0.8514	0.6987	0.4701
	39	2.127	2.499	85.14	0.8514	0.6987	0.4701
BLE 2M	0	1.074	2.499	43.00	0.4300	3.6653	0.9311
	19	1.074	2.499	43.00	0.4300	3.6653	0.9311
	39	1.070	2.486	43.04	0.4304	3.6613	0.9346

Test Graphs

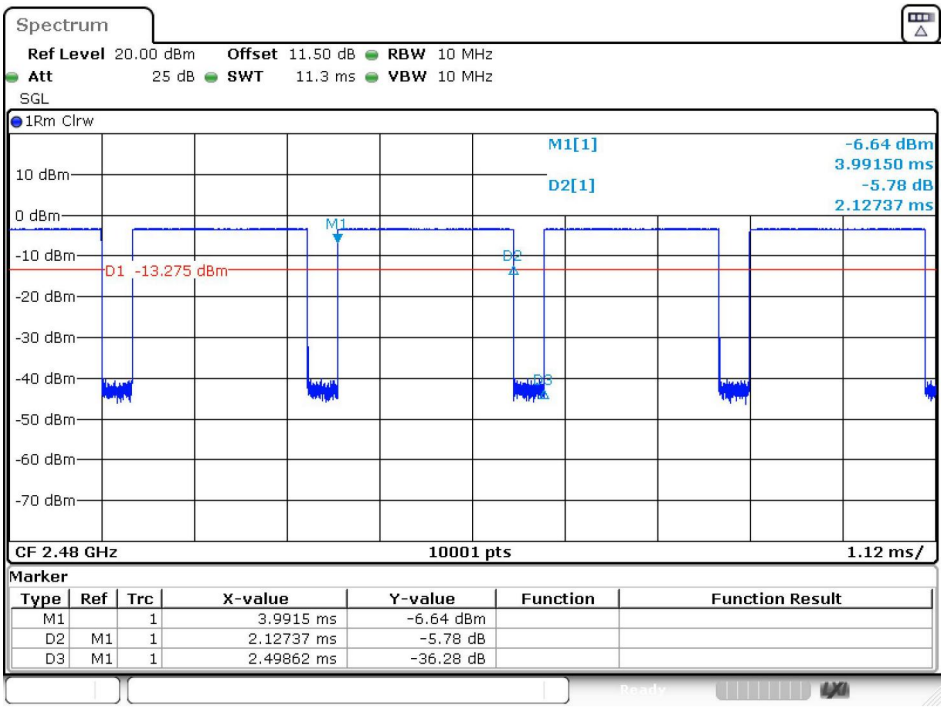


BLE 1M_Channel 0



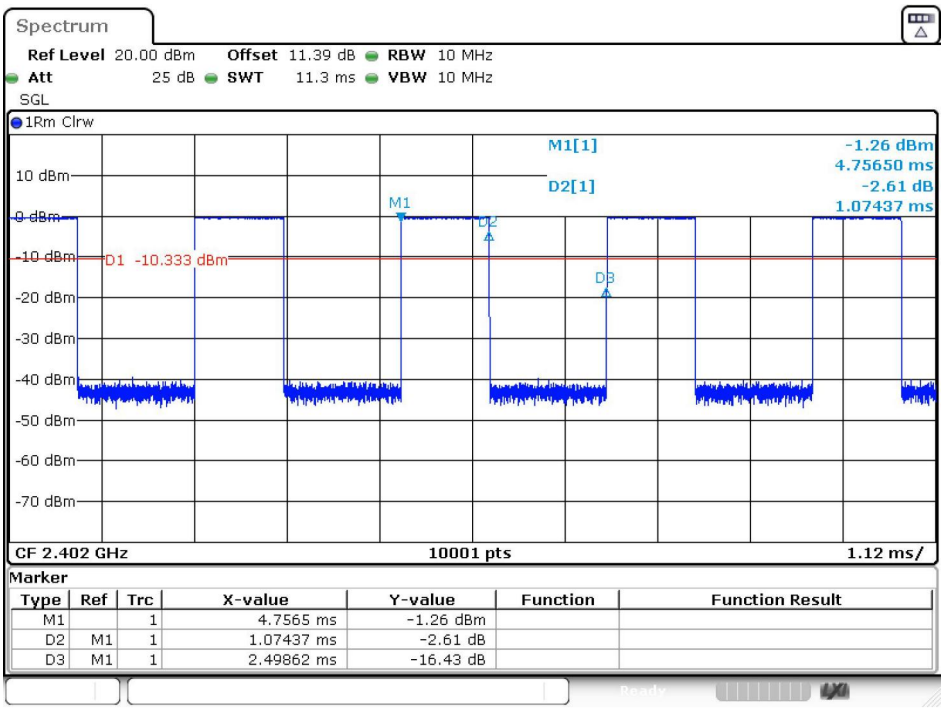
Date: 11.DEC.2024 09:49:23

BLE 1M_Channel 19

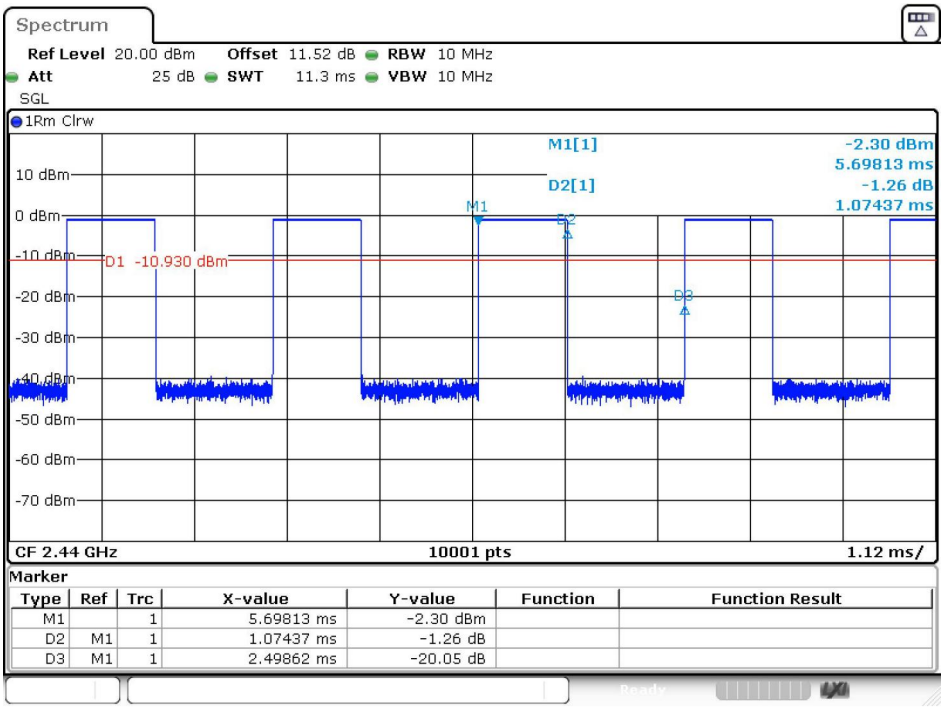


Date: 11.DEC.2024 09:59:34

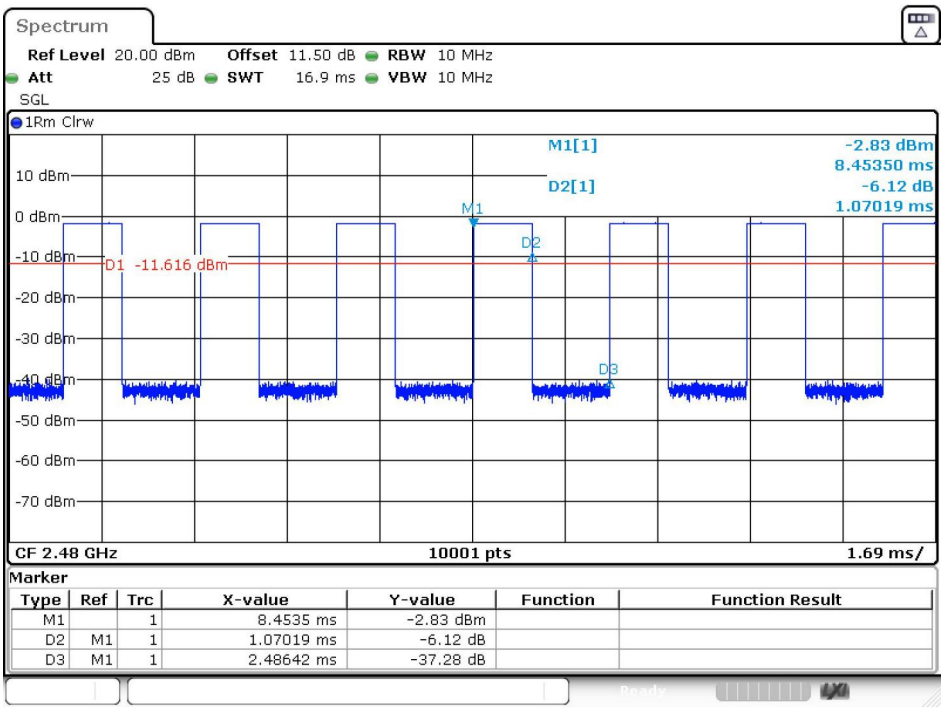
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



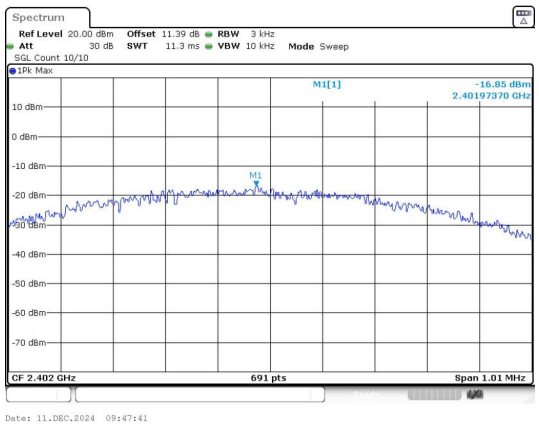
BLE 2M_Channel 39

2) Power Spectral Density

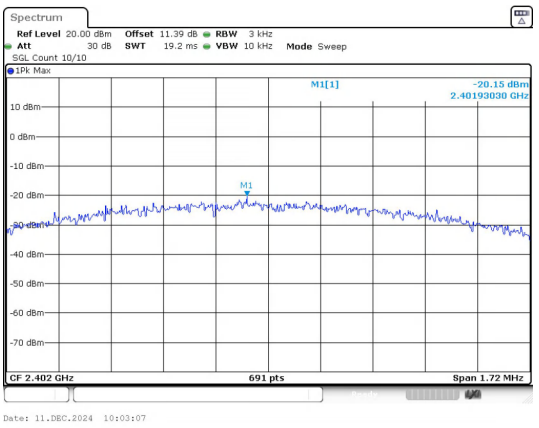
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-16.850	≤8	PASS
BLE 1M	19	-18.660	≤8	PASS
BLE 1M	39	-20.600	≤8	PASS
BLE 2M	0	-20.150	≤8	PASS
BLE 2M	19	-20.850	≤8	PASS
BLE 2M	39	-22.530	≤8	PASS

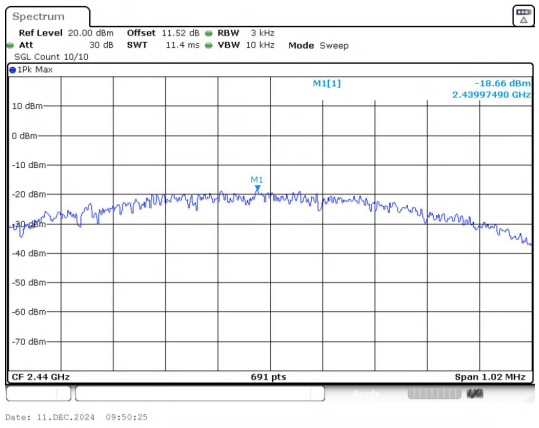
Test Graphs



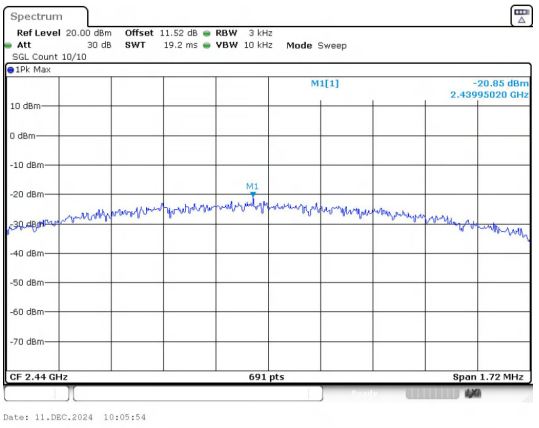
BLE 1M_Channel 0



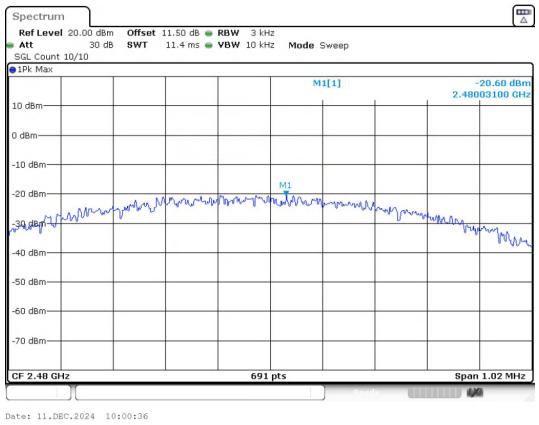
BLE 2M_Channel 0



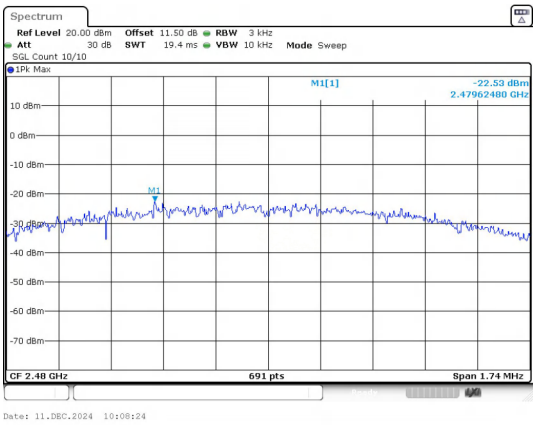
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



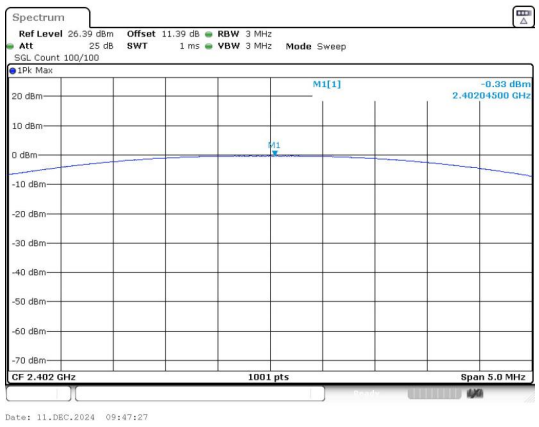
BLE 2M_Channel 39

3) Conducted Output Power

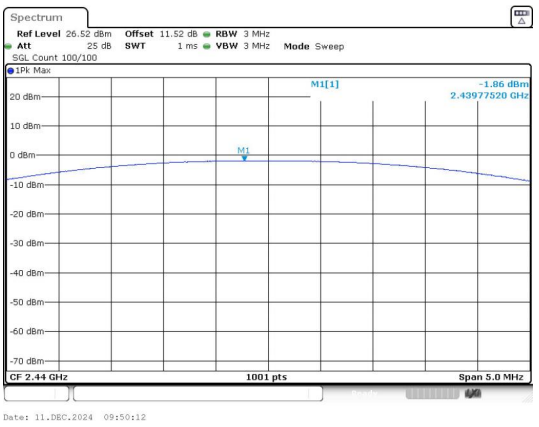
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-0.33	0.93	≤30	PASS
	19	-1.86	0.65	≤30	PASS
	39	-3.26	0.47	≤30	PASS
BLE 2M	0	-0.32	0.93	≤30	PASS
	19	-0.96	0.8	≤30	PASS
	39	-1.62	0.69	≤30	PASS

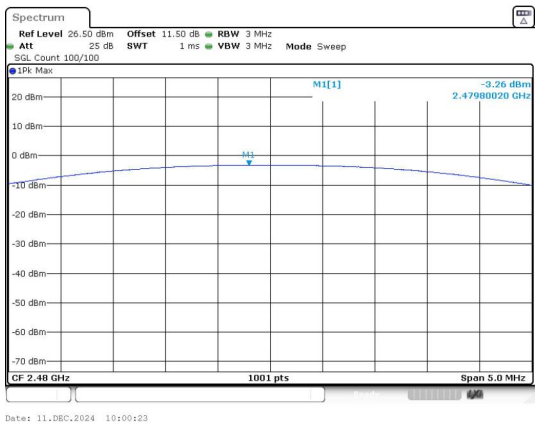
Test Graphs



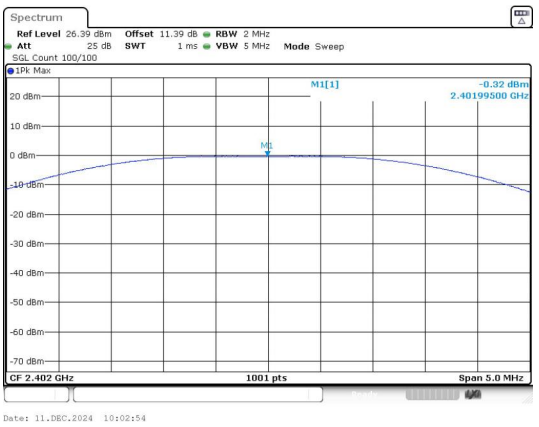
Peak Output Power
BLE 1M_Channel 0



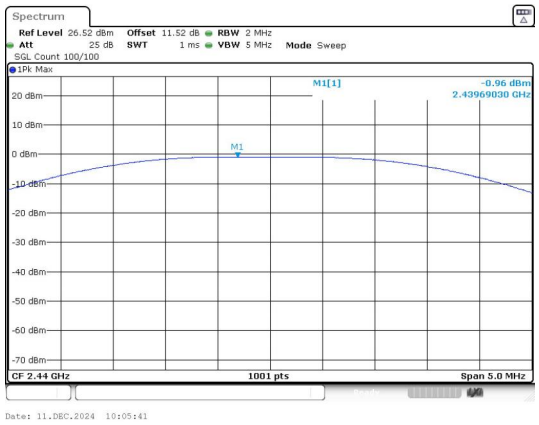
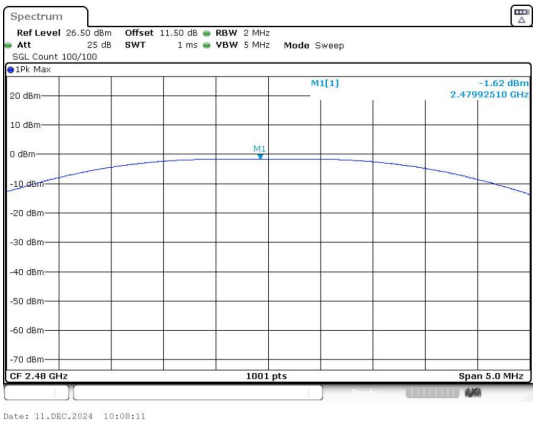
Peak Output Power
BLE 1M_Channel 19



Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0

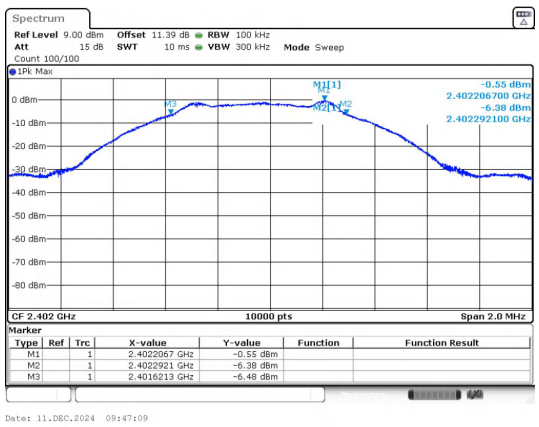
	
Peak Output Power **BLE 2M_Channel 19**	**Peak Output Power** **BLE 2M_Channel 39**

4) 6dB Bandwidth

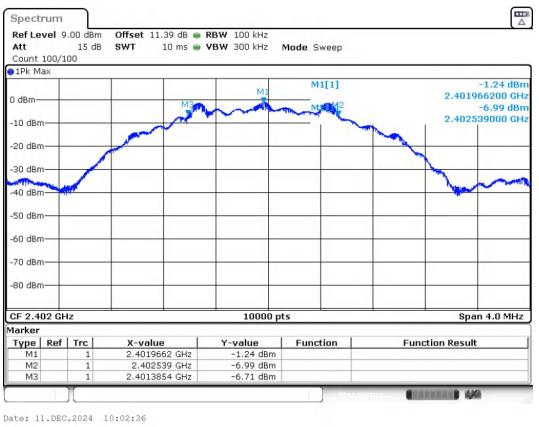
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6700	≥0.5	PASS
	19	2440	0.6800		PASS
	39	2480	0.6800		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.150		PASS
	39	2480	1.160		PASS

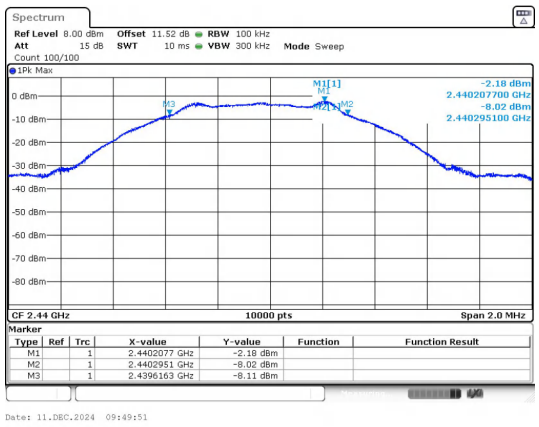
Test Graphs



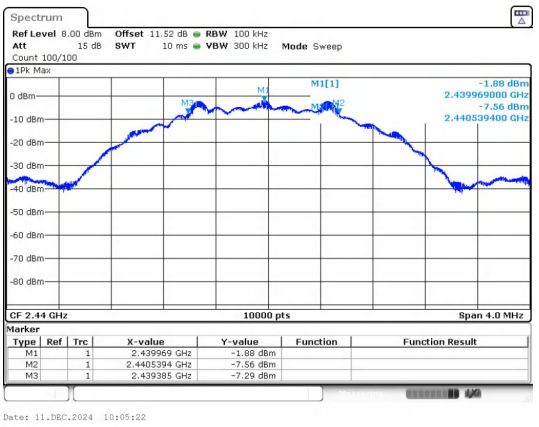
BLE 1M_Channel 0



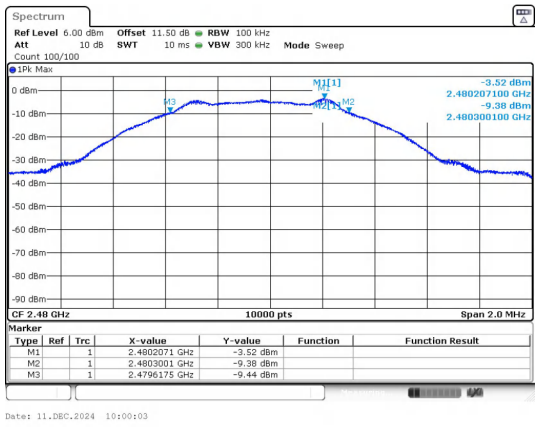
BLE 2M_Channel 0



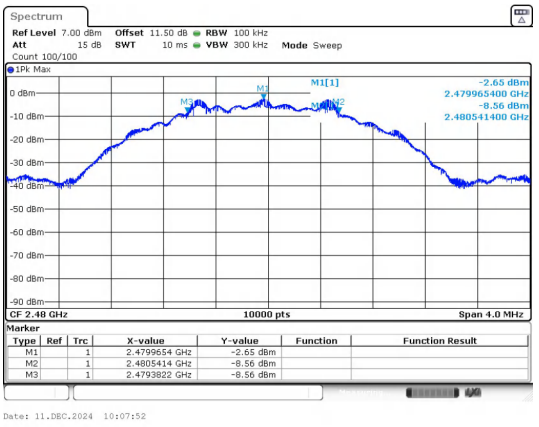
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



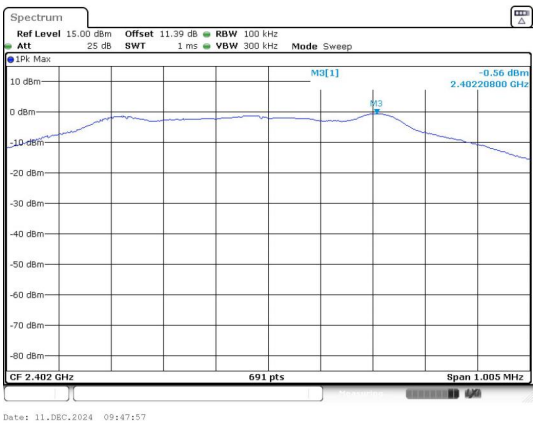
BLE 2M_Channel 39

5) Conducted Out Of Band Emission

Test Result

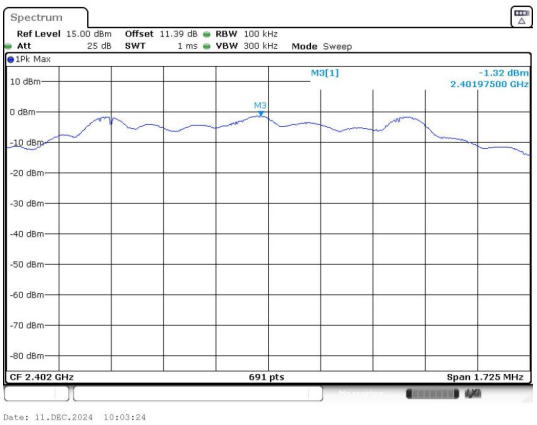
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	167.75	-45.072	-20.56	-24.512	PASS
		2400.00	-47.170	-20.56	-26.610	PASS
	19	167.75	-45.141	-22.19	-22.951	PASS
	39	167.75	-44.675	-23.56	-21.115	PASS
		2483.50	-50.010	-23.56	-26.450	PASS
BLE 2M	0	1758.34	-43.905	-21.31	-22.595	PASS
		2400.00	-34.610	-21.31	-13.300	PASS
	19	144.45	-45.594	-21.97	-23.624	PASS
	39	144.45	-44.706	-22.66	-22.046	PASS
		2483.50	-50.490	-22.66	-27.830	PASS

Test Graphs



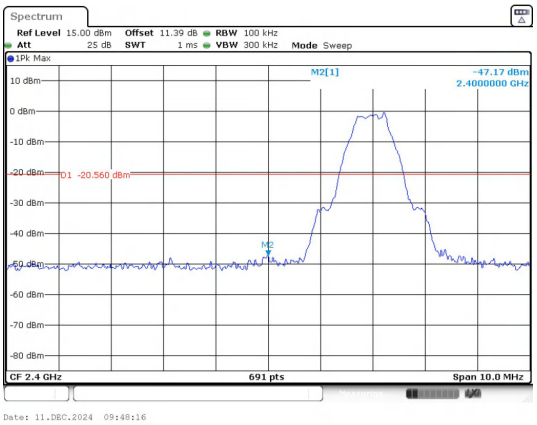
In-Band Reference Level

BLE 1M_Channel 0



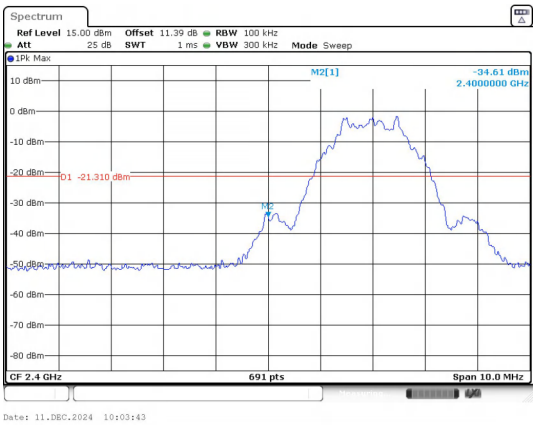
In-Band Reference Level

BLE 2M_Channel 0



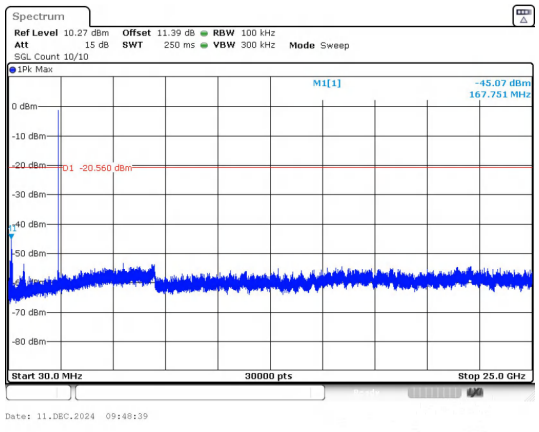
Out Of Band Emission

BLE 1M_Channel 0



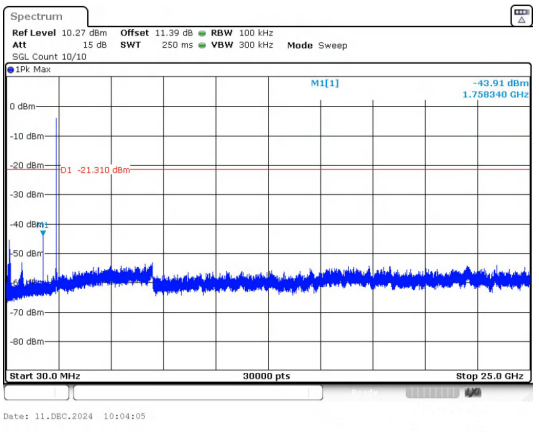
Out Of Band Emission

BLE 2M_Channel 0



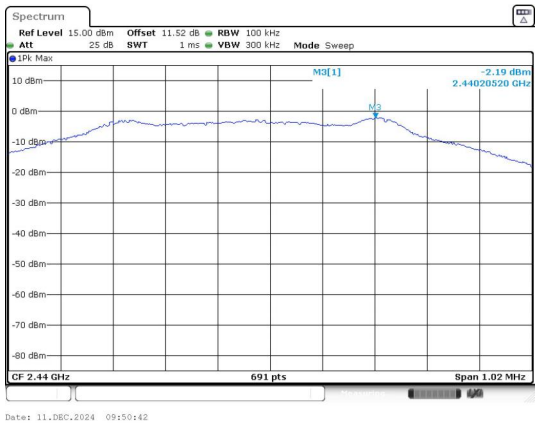
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 0



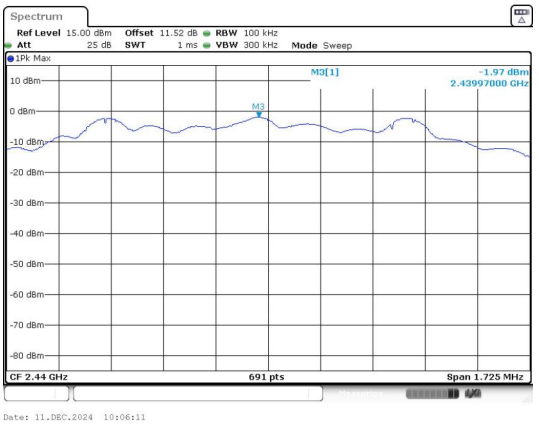
30.0 MHz - 25000.0 MHz

BLE 2M_Channel 0



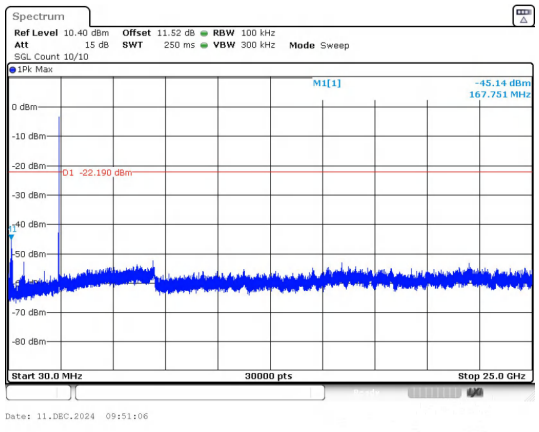
In-Band Reference Level

BLE 1M_Channel 19



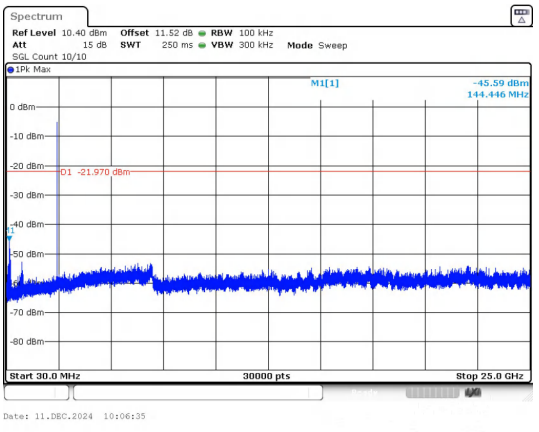
In-Band Reference Level

BLE 2M_Channel 19



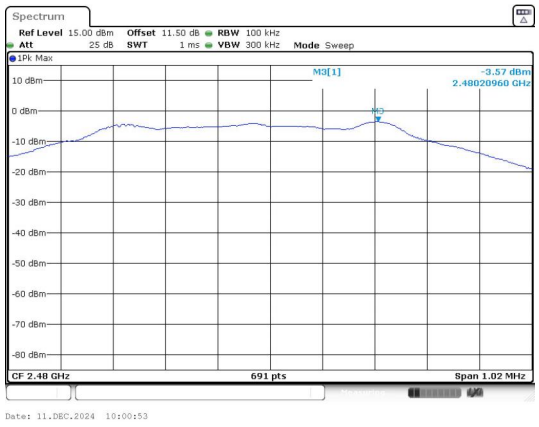
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 19



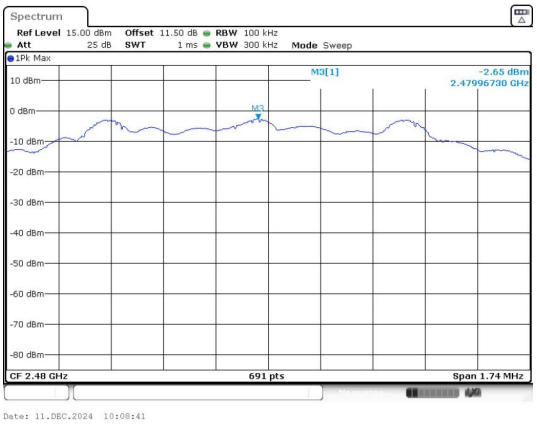
30.0 MHz - 25000.0 MHz

BLE 2M_Channel 19



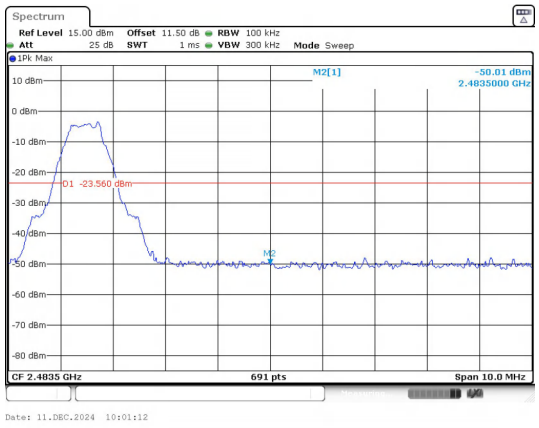
In-Band Reference Level

BLE 1M_Channel 39



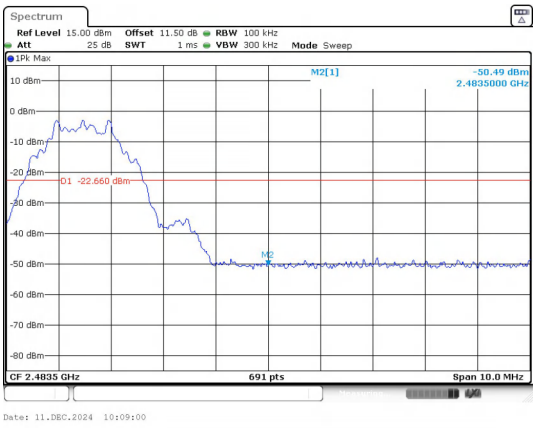
In-Band Reference Level

BLE 2M_Channel 39



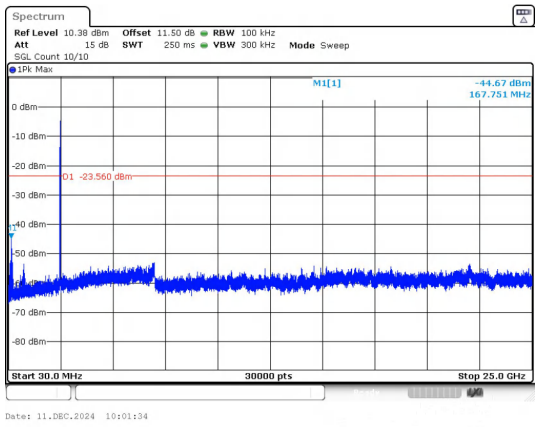
Out Of Band Emission

BLE 1M_Channel 39



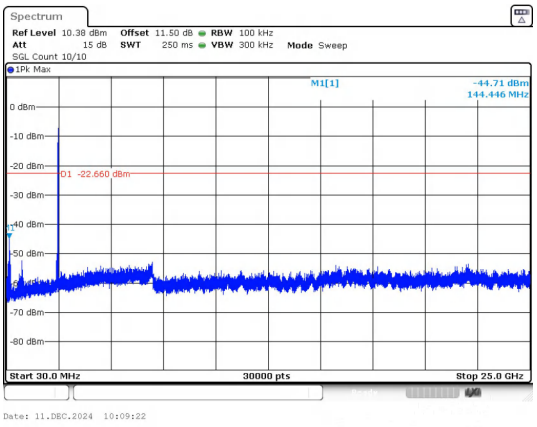
Out Of Band Emission

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-----