

Appendix A

Report No.:	CISRR240925240
FCC ID:	2BLMQ-B8
Product Name:	OWS bone conduction Bluetooth earphones
Model No.:	B8
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

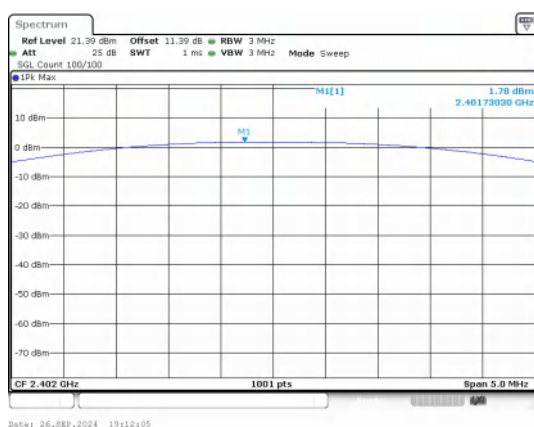
1) Conducted Output Power

Test Result

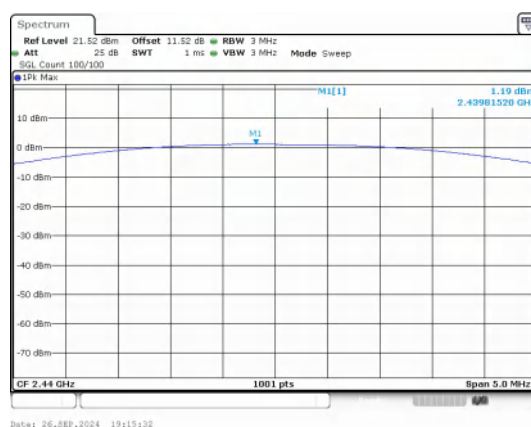
Left:

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	1.78	1.51	≤30	PASS
	19	1.19	1.32	≤30	PASS
	39	1.08	1.28	≤30	PASS

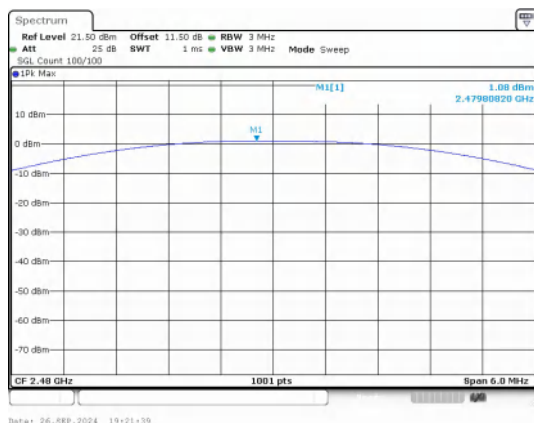
Test Graphs



Peak Output Power
BLE 1M_Channel 0



Peak Output Power
BLE 1M_Channel 19

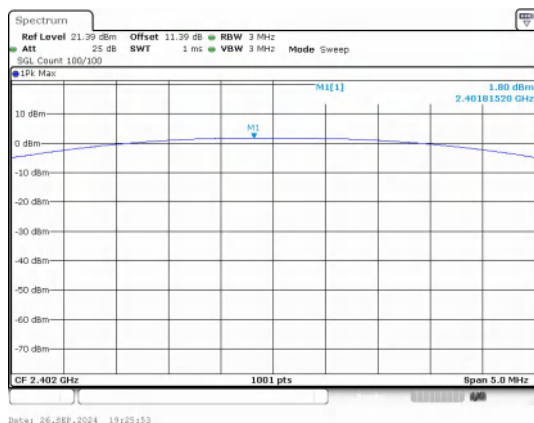


Peak Output Power
BLE 1M_Channel 39

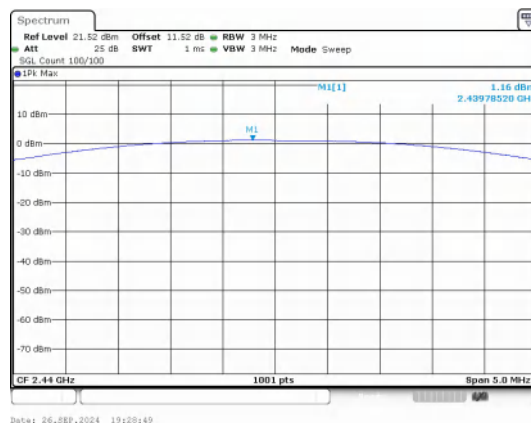
Right:

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	1.80	1.51	≤30	PASS
	19	1.16	1.31	≤30	PASS
	39	0.94	1.24	≤30	PASS

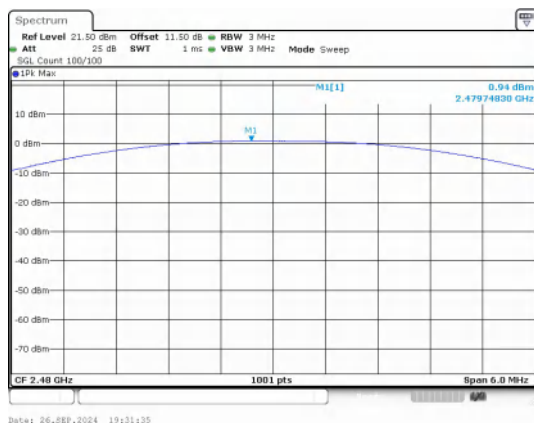
Test Graphs



Peak Output Power
BLE 1M_Channel 0



Peak Output Power
BLE 1M_Channel 19



Peak Output Power
BLE 1M_Channel 39

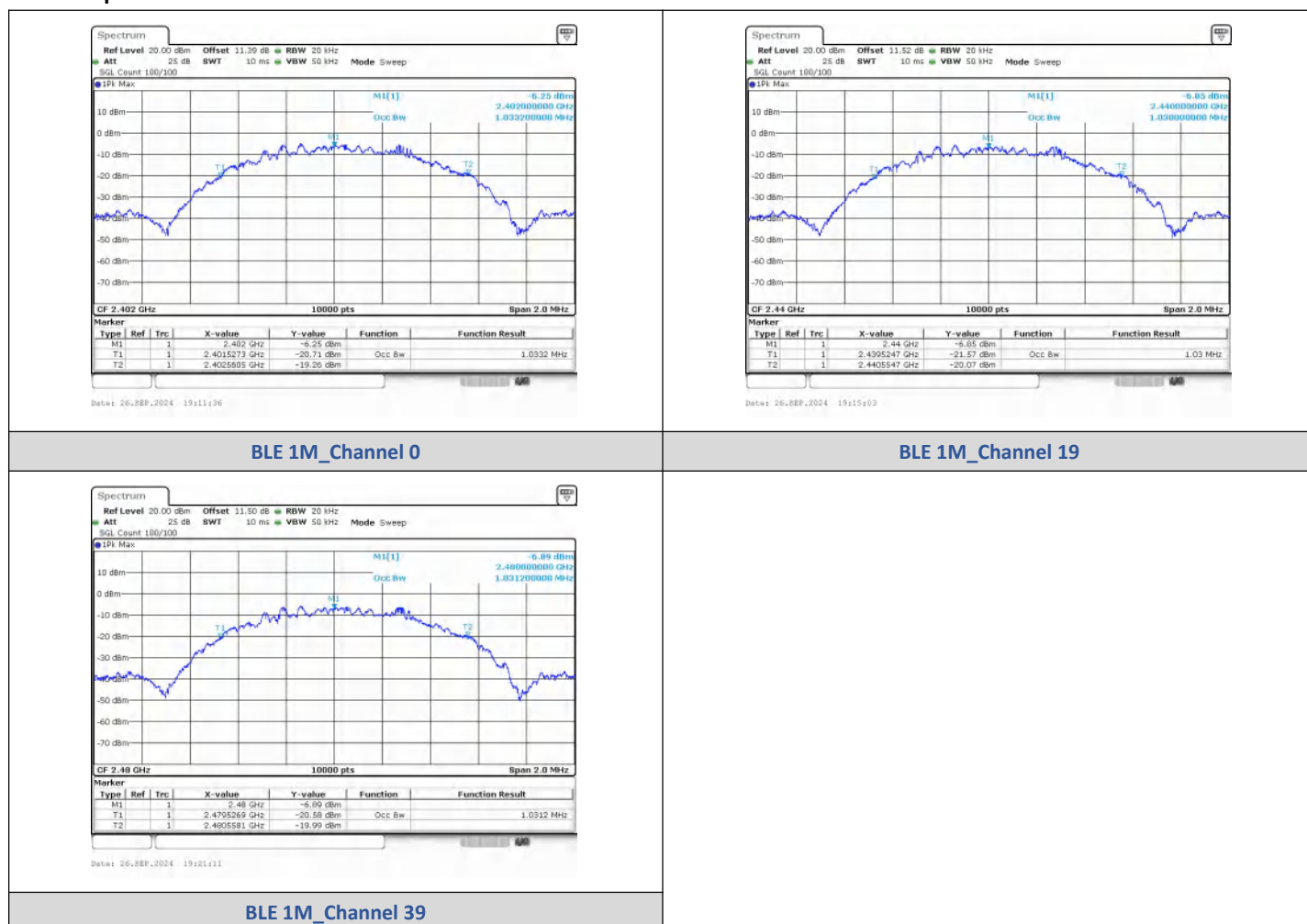
2) 99% Bandwidth

Test Result

Left:

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0332
BLE 1M	19	2440	1.0300
BLE 1M	39	2480	1.0312

Test Graphs

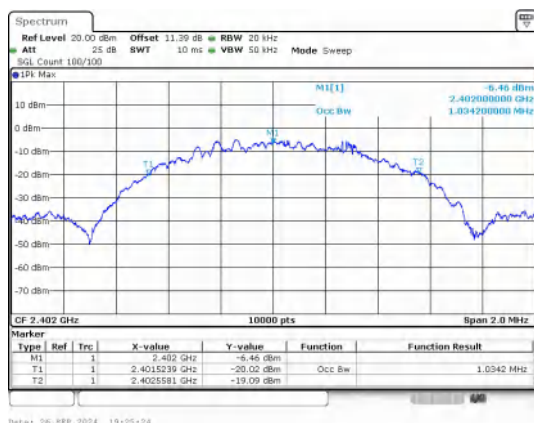


Right:

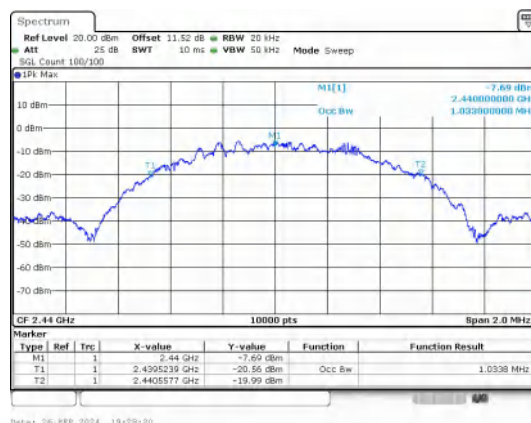
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0342
BLE 1M	19	2440	1.0338
BLE 1M	39	2480	1.0340

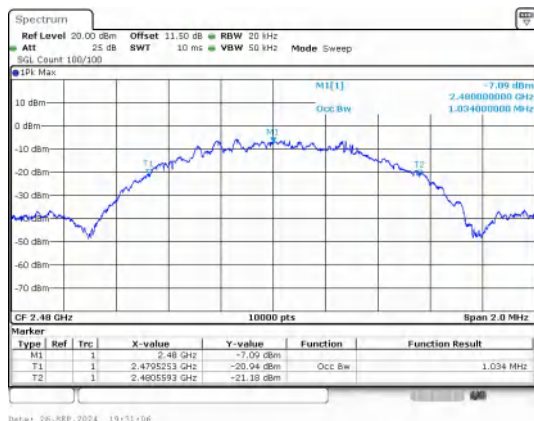
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



BLE 1M_Channel 39

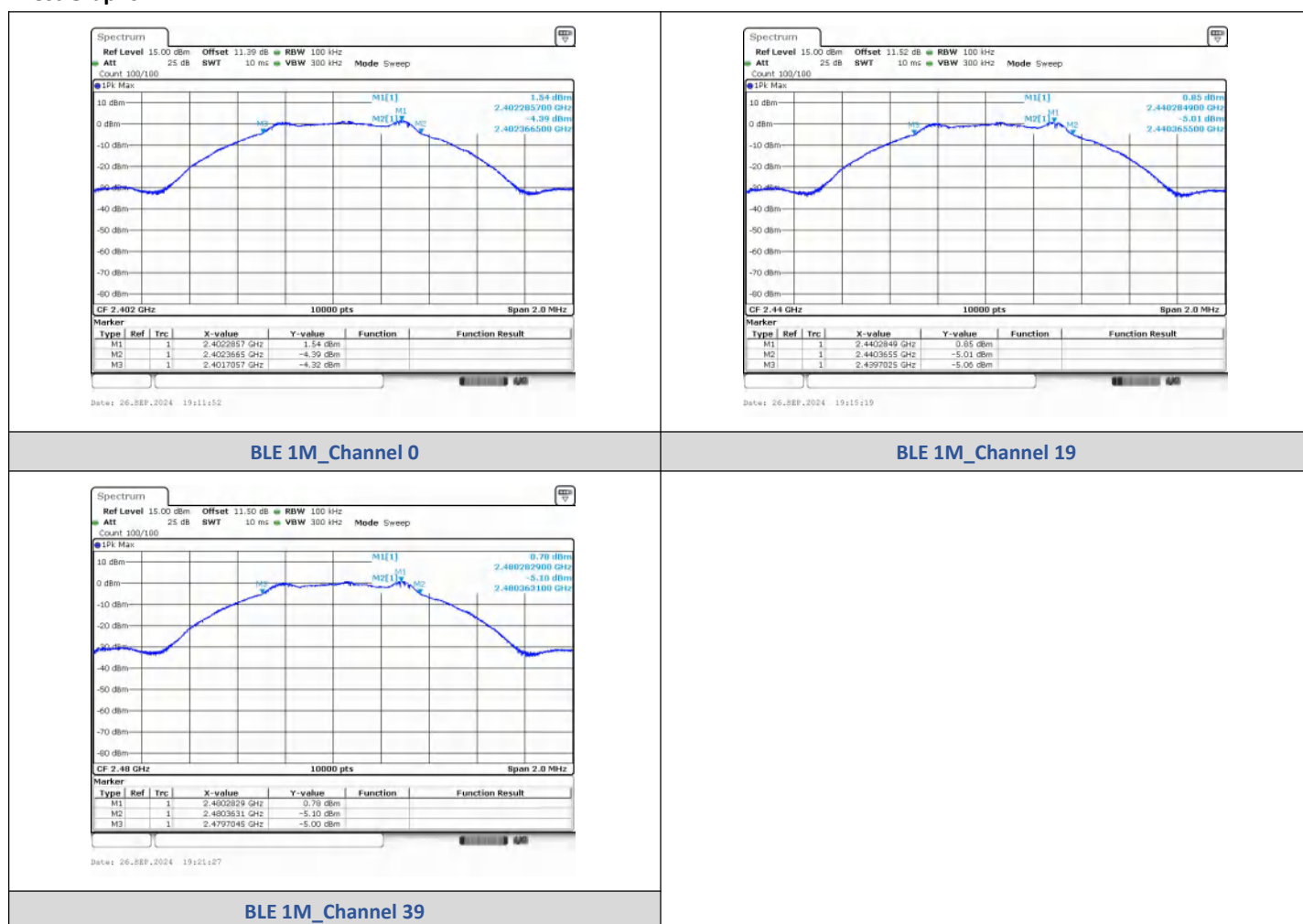
3) 6dB Bandwidth

Test Result

Left:

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

Test Graphs

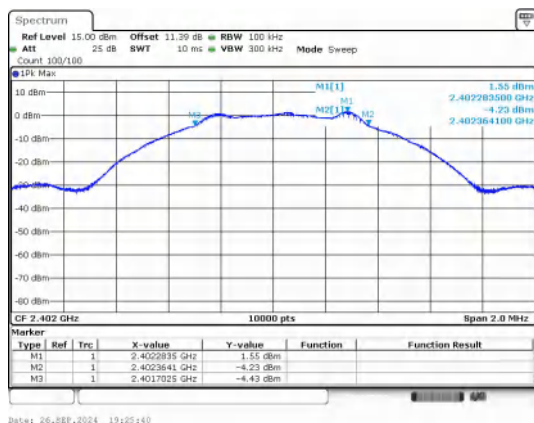


Right:

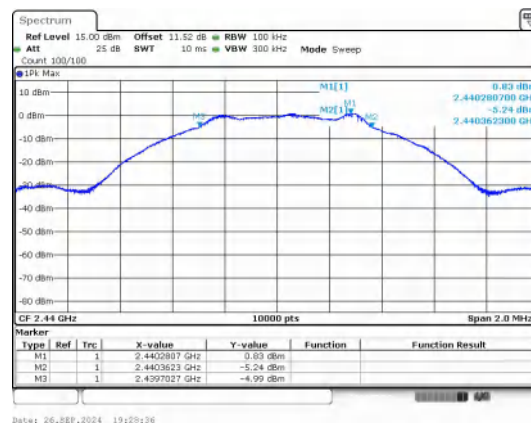
Test Result

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	0.6700		PASS

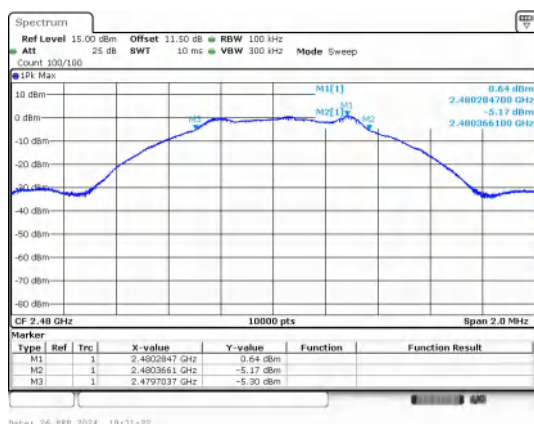
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



BLE 1M_Channel 39

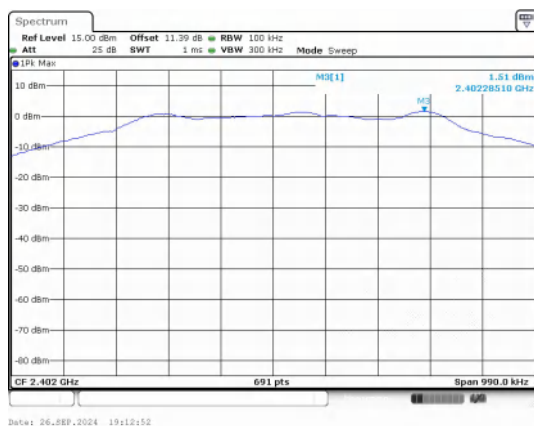
4) Conducted Out Of Band Emission

Test Result

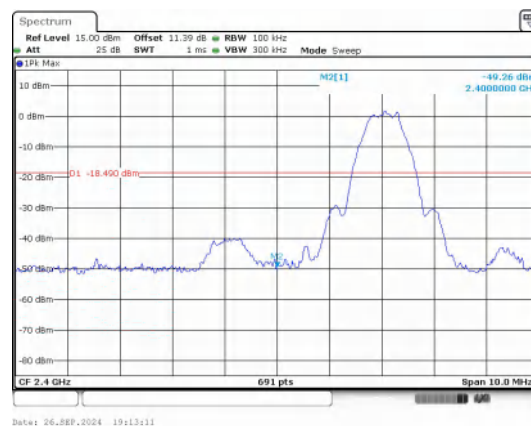
Left:

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-40.279	-18.49	-21.789	PASS
		2400.00	-49.256	-18.49	-30.766	PASS
		9602.20	-43.056	-18.49	-24.566	PASS
	19	9754.57	-40.453	-18.98	-21.473	PASS
	39	2483.50	-47.583	-19.25	-28.333	PASS
		9914.37	-39.957	-19.25	-20.707	PASS

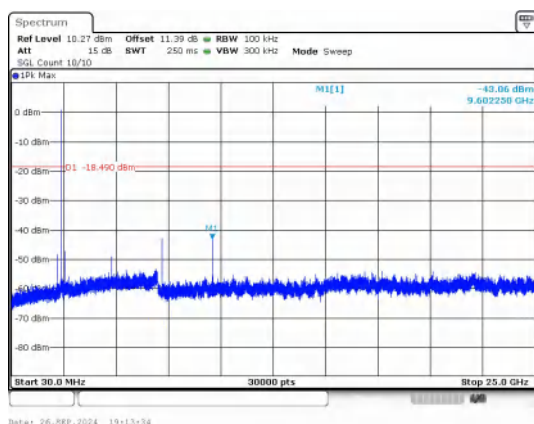
Test Graphs



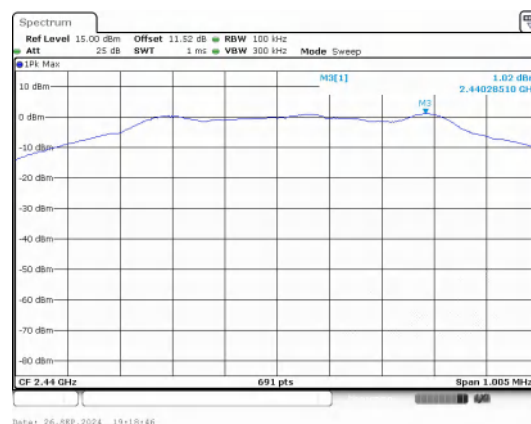
In-Band Reference Level
BLE 1M_Channel 0



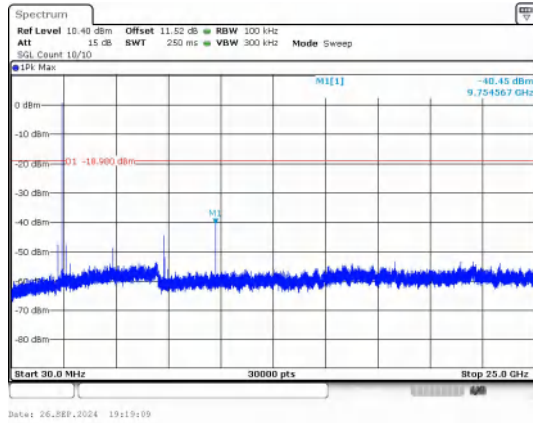
Out Of Band Emission
BLE 1M_Channel 0



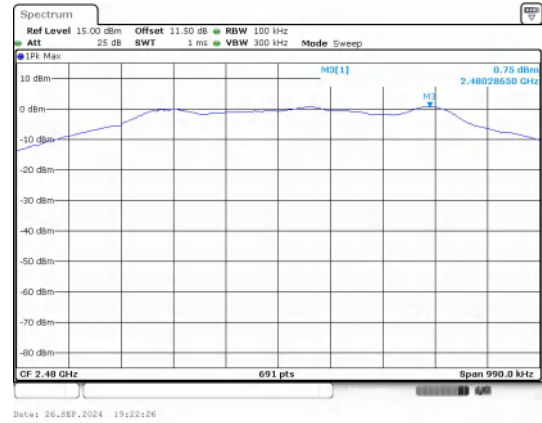
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



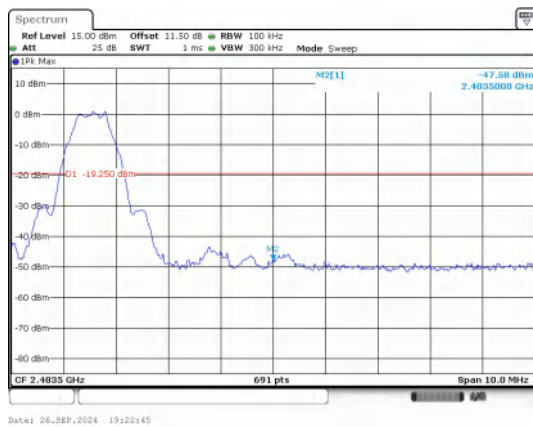
In-Band Reference Level
BLE 1M_Channel 19



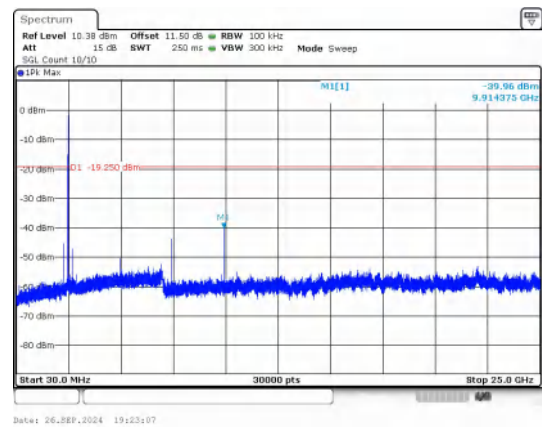
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



In-Band Reference Level
BLE 1M_Channel 39



Out Of Band Emission
BLE 1M_Channel 39



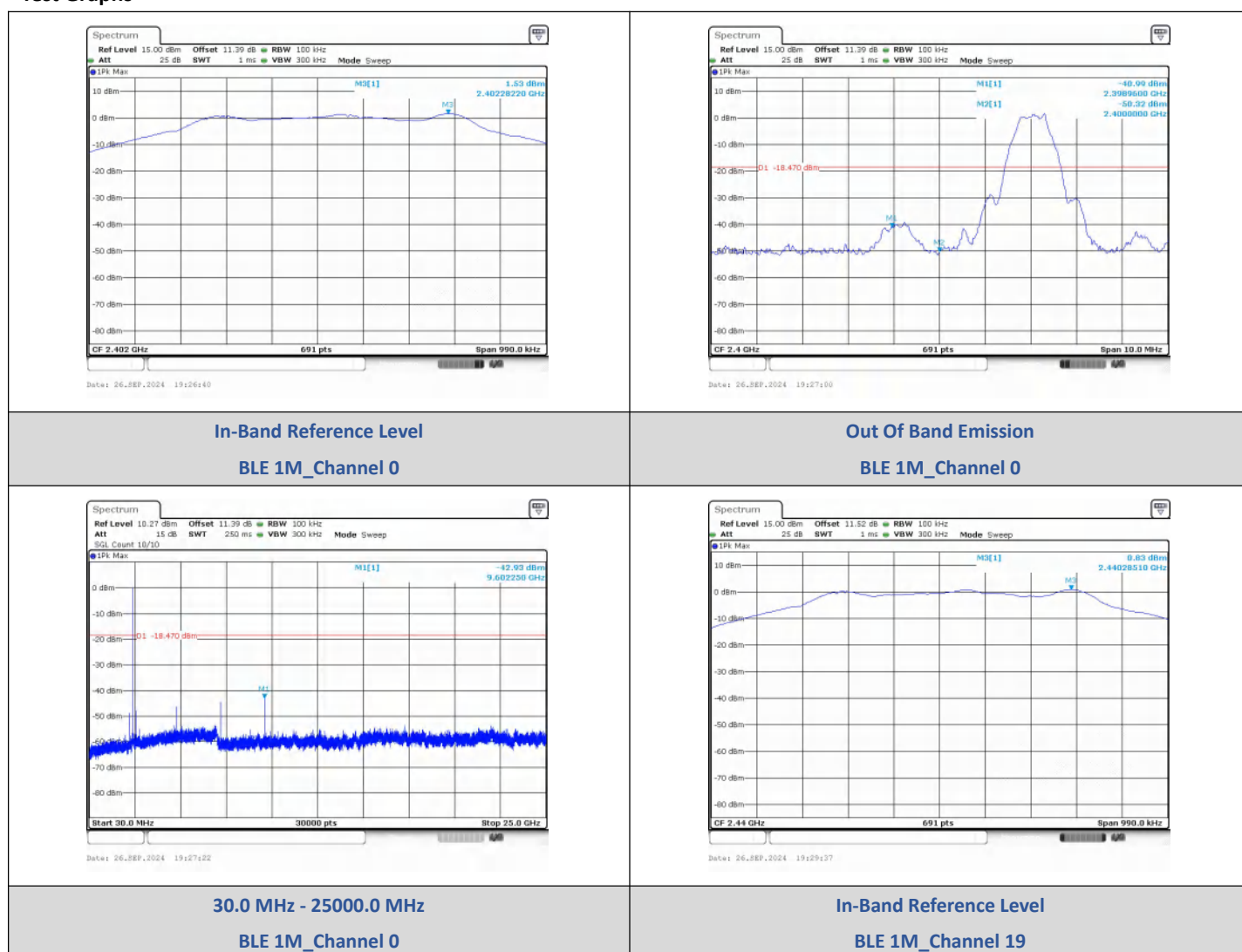
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39

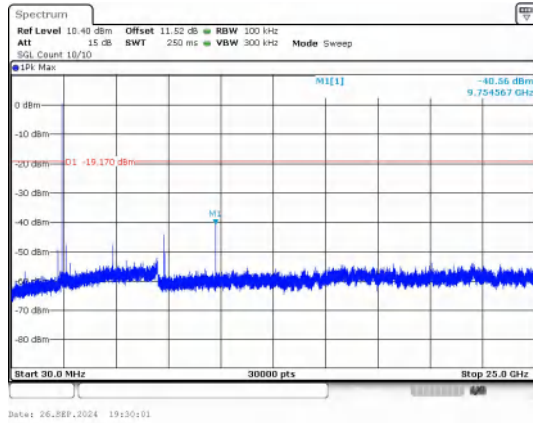
Right:

Test Result

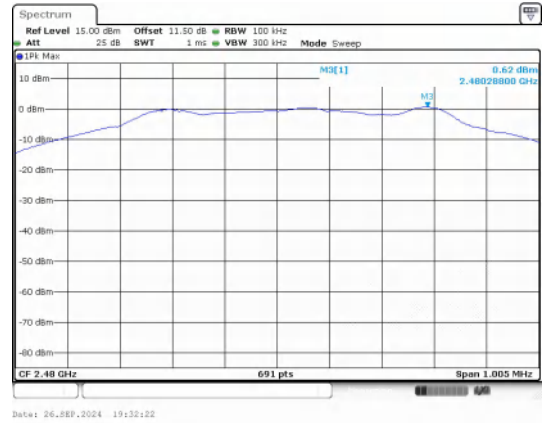
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.96	-40.989	-18.47	-22.519	PASS
		2400.00	-50.316	-18.47	-31.846	PASS
		9602.20	-42.927	-18.47	-24.457	PASS
	19	9754.57	-40.559	-19.17	-21.389	PASS
	39	2483.50	-48.108	-19.38	-28.728	PASS
		9914.37	-40.613	-19.38	-21.233	PASS

Test Graphs

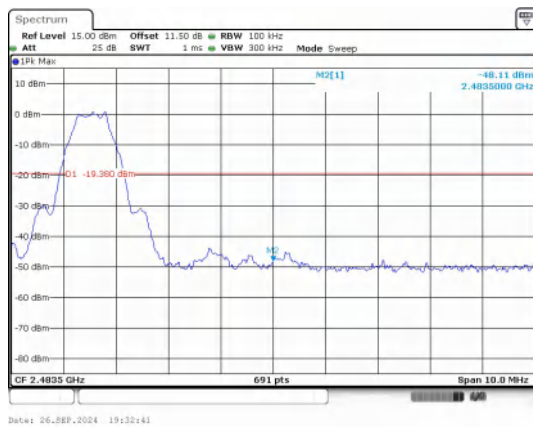




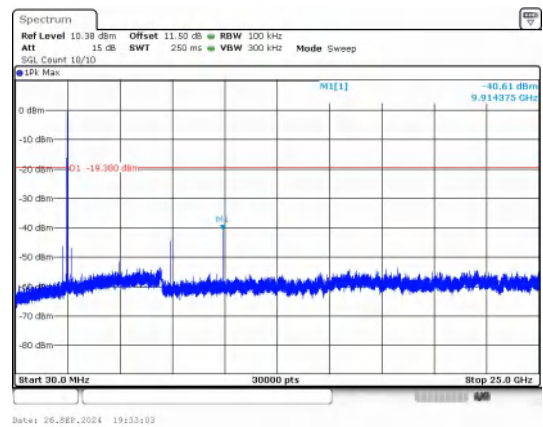
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



In-Band Reference Level
BLE 1M_Channel 39



Out Of Band Emission
BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39

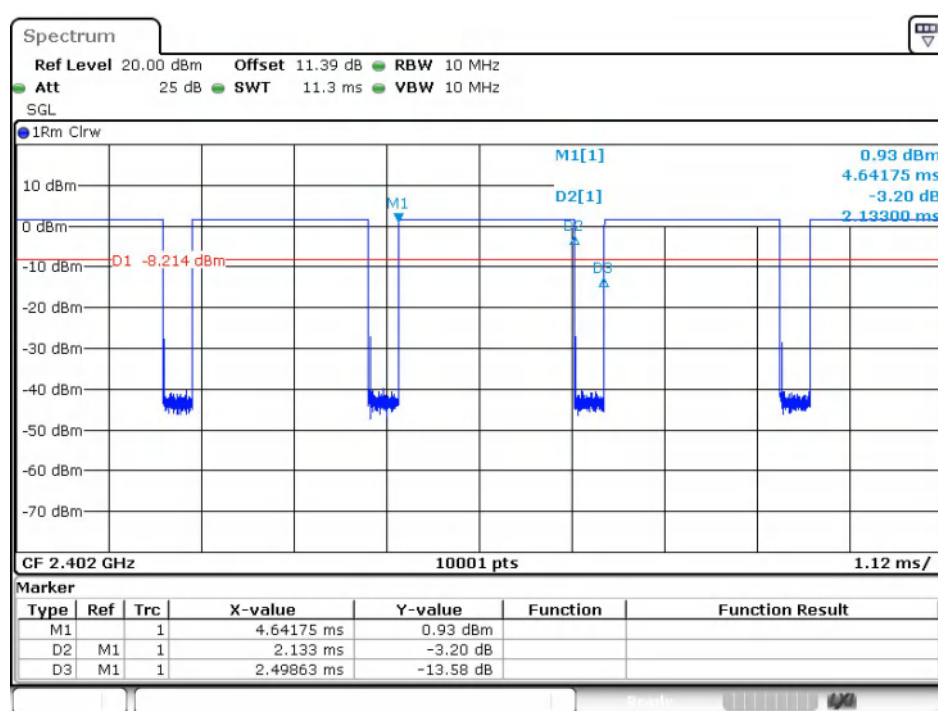
5) Duty Cycle

Test Result

Left:

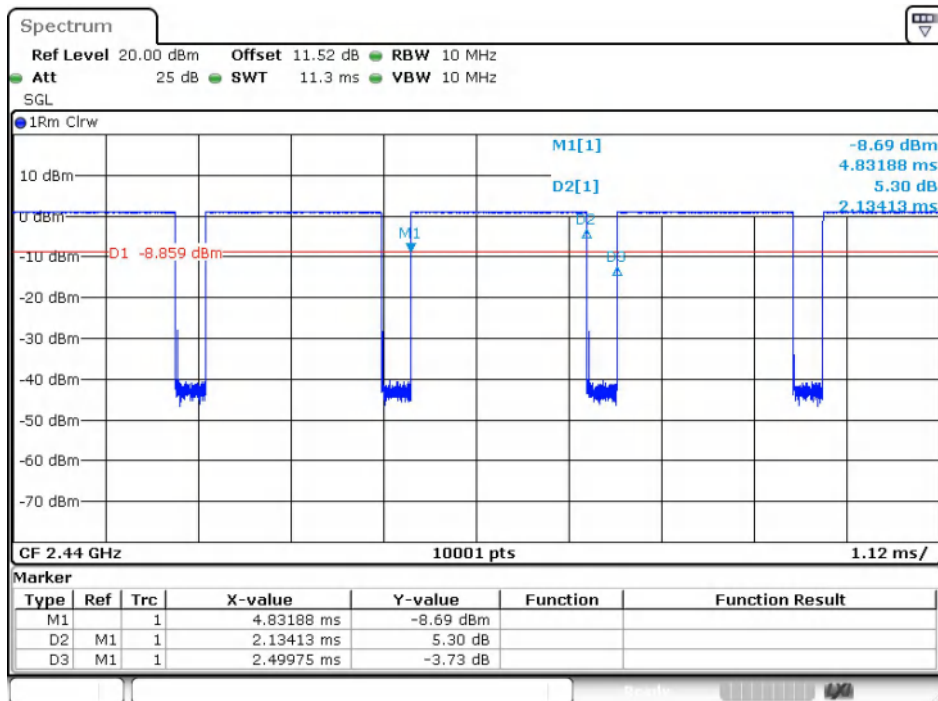
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.133	2.499	85.37	0.8537	0.6869	0.47
	19	2.134	2.500	85.37	0.8537	0.6869	0.47
	39	2.134	2.500	85.37	0.8537	0.6869	0.47

Test Graphs



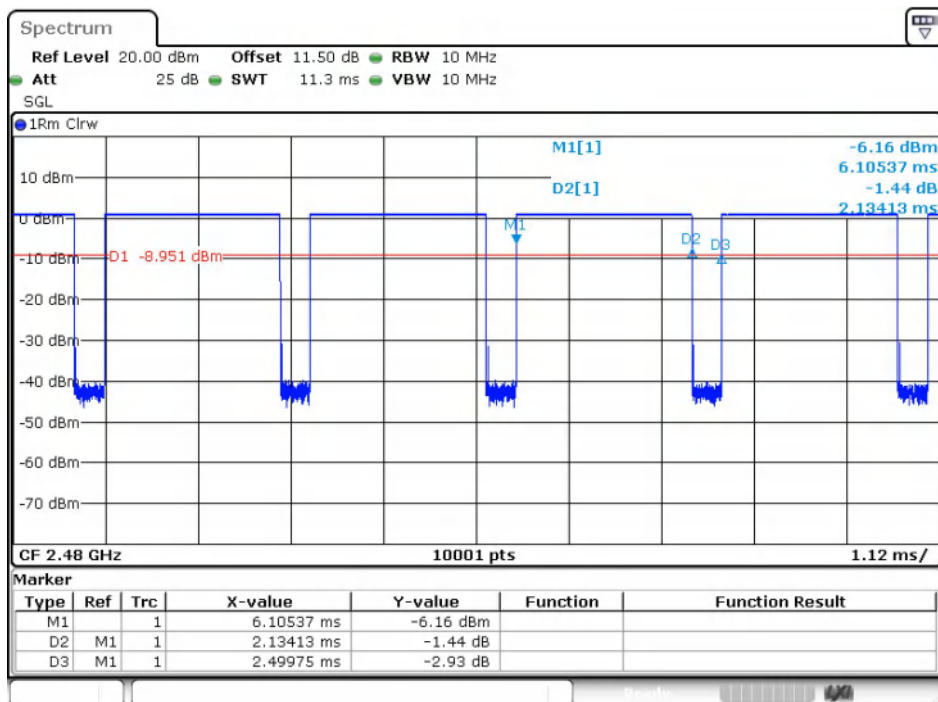
Date: 26.SEP.2024 19:11:22

BLE 1M_Channel 0



Date: 26.SEP.2024 19:14:49

BLE 1M_Channel 19



Date: 26.SEP.2024 19:20:56

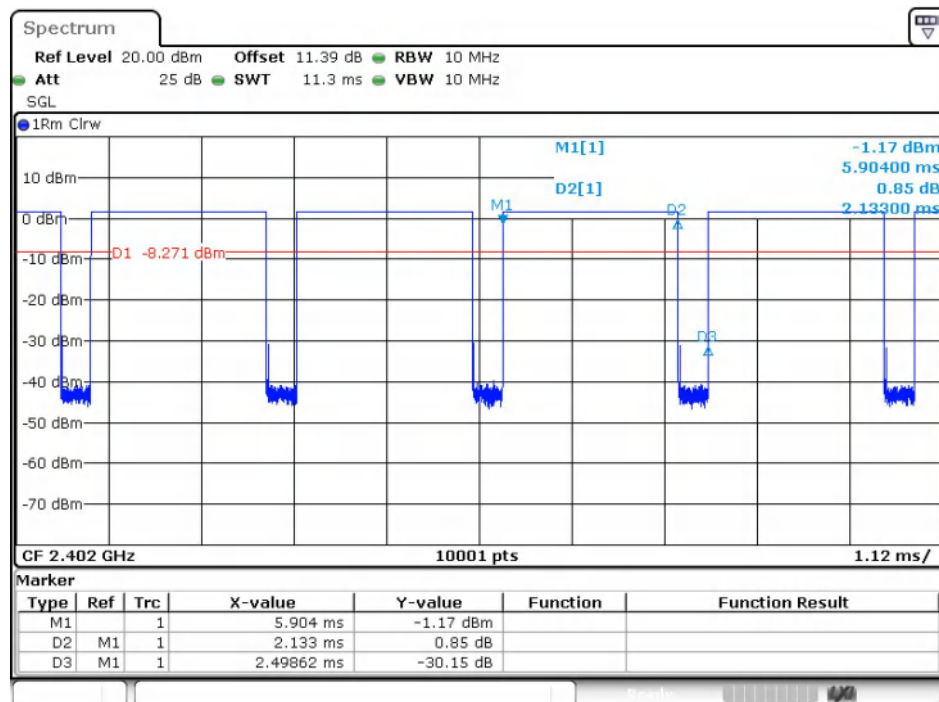
BLE 1M_Channel 39

Right:

Test Result

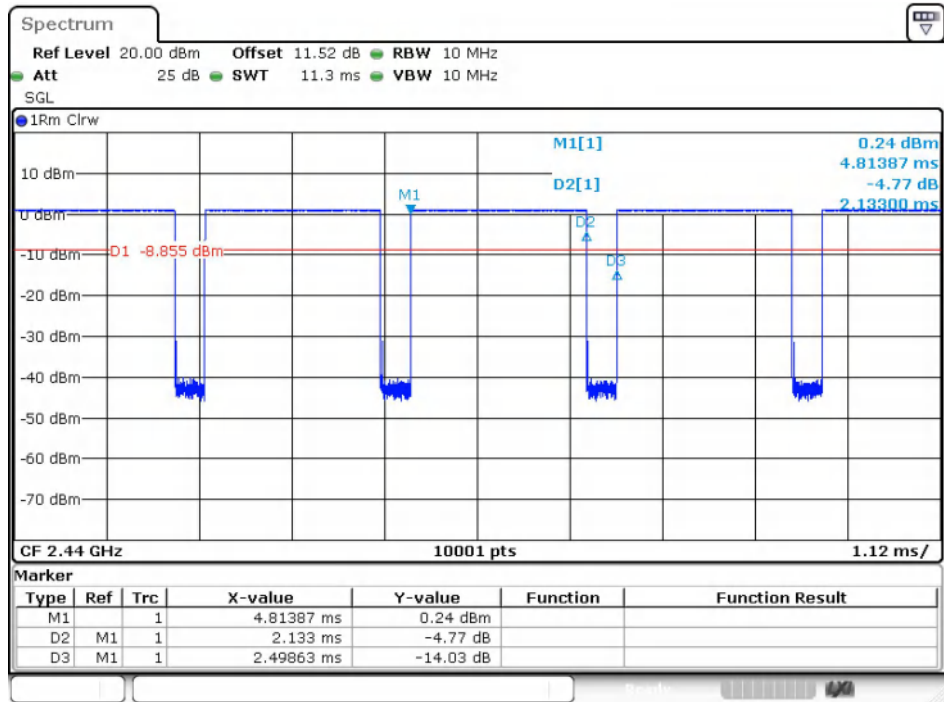
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.133	2.499	85.37	0.8537	0.6869	0.47
	19	2.133	2.499	85.37	0.8537	0.6869	0.47
	39	2.133	2.499	85.37	0.8537	0.6869	0.47

Test Graphs



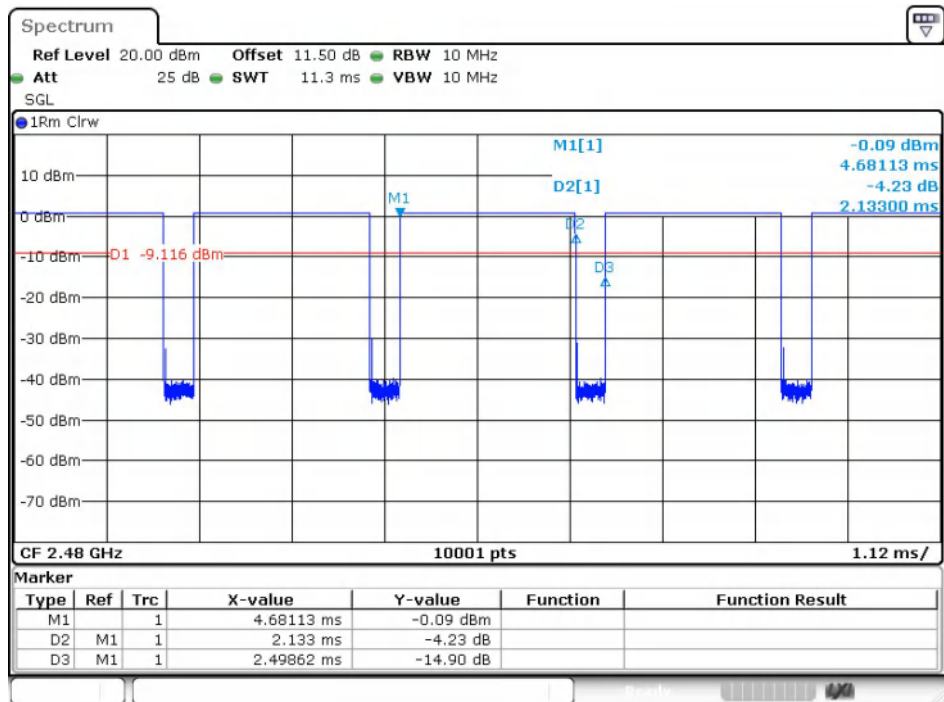
Date: 26.SEP.2024 19:25:10

BLE 1M_Channel 0



Date: 26.SEP.2024 19:28:06

BLE 1M_Channel 19



Date: 26.SEP.2024 19:30:52

BLE 1M_Channel 39

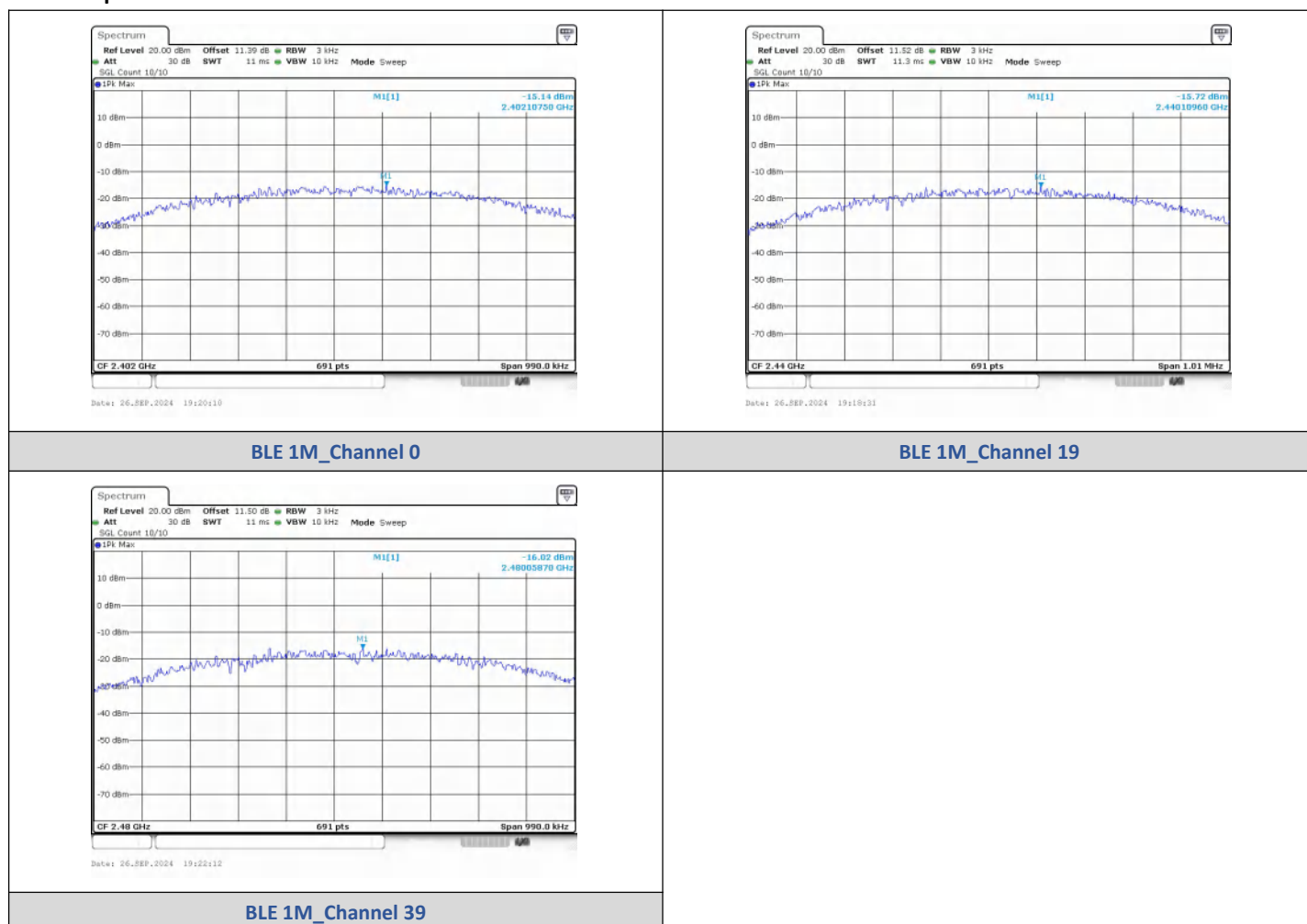
6) Power Spectral Density

Test Result

Left:

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-15.14	≤8	PASS
BLE 1M	19	-15.72	≤8	PASS
BLE 1M	39	-16.02	≤8	PASS

Test Graphs



Right:

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-15.25	≤8	PASS
BLE 1M	19	-16.35	≤8	PASS
BLE 1M	39	-16.05	≤8	PASS

Test Graphs

