

Appendix A

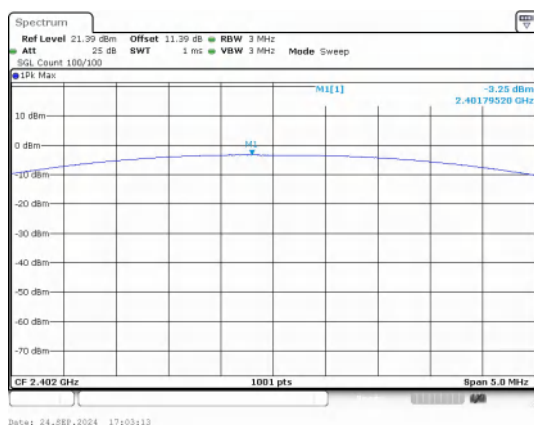
Report No.:	CISRR240921201
FCC ID:	2A5C6-Y14
Product Name:	Smart Tracker
Model No.:	Y14
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Conducted Output Power

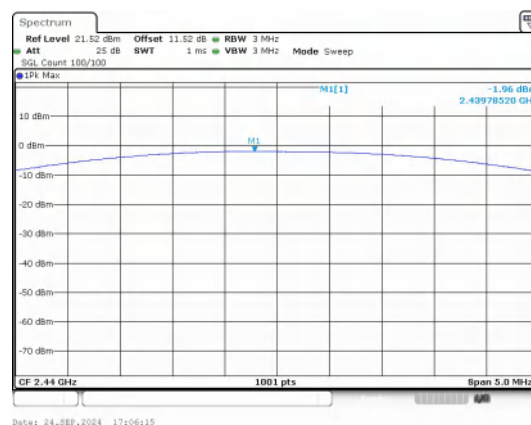
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-3.25	0.47	≤30	PASS
	19	-1.96	0.64	≤30	PASS
	39	0.55	1.14	≤30	PASS
BLE 2M	0	-3.02	0.5	≤30	PASS
	19	-1.45	0.72	≤30	PASS
	39	1.08	1.28	≤30	PASS

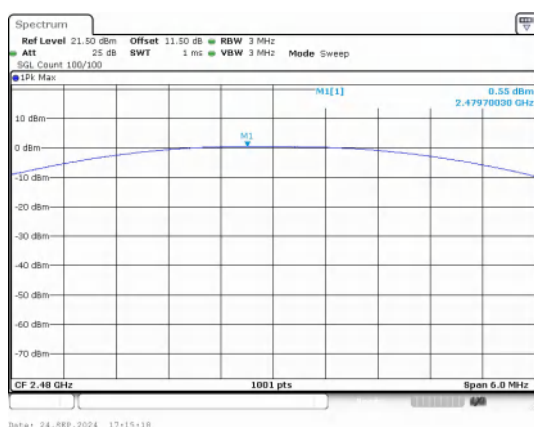
Test Graphs



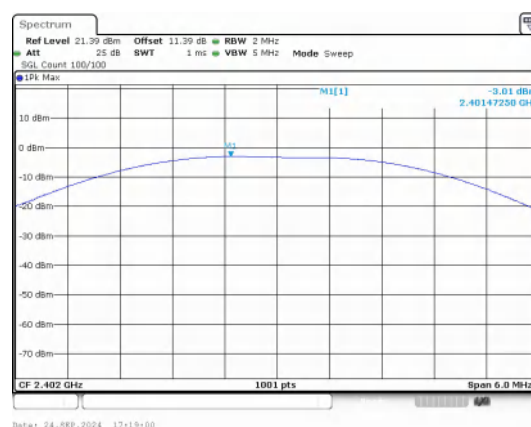
Peak Output Power
BLE 1M_Channel 0



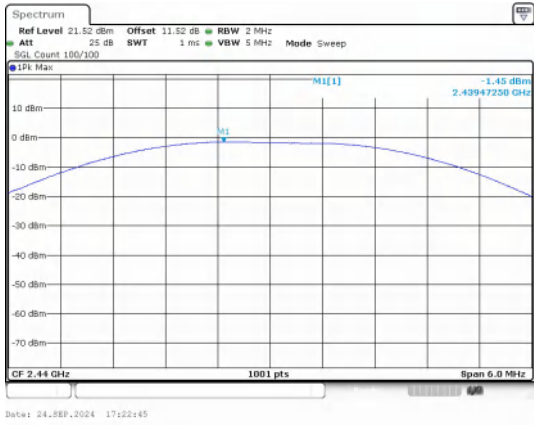
Peak Output Power
BLE 1M_Channel 19



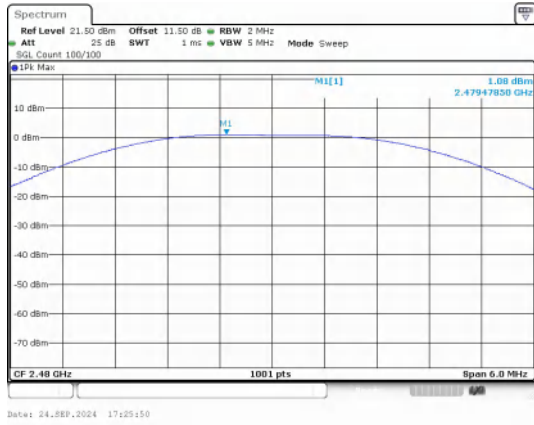
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



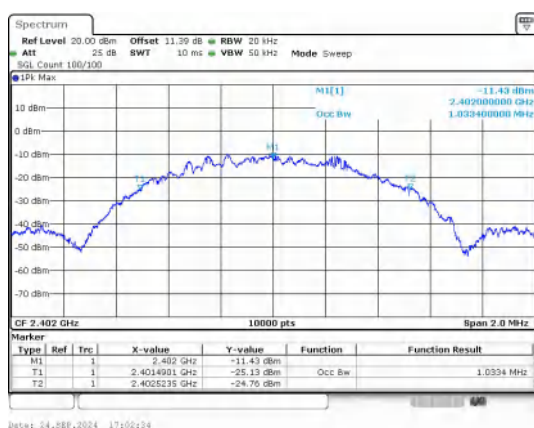
Peak Output Power
BLE 2M_Channel 39

2) 99% Bandwidth

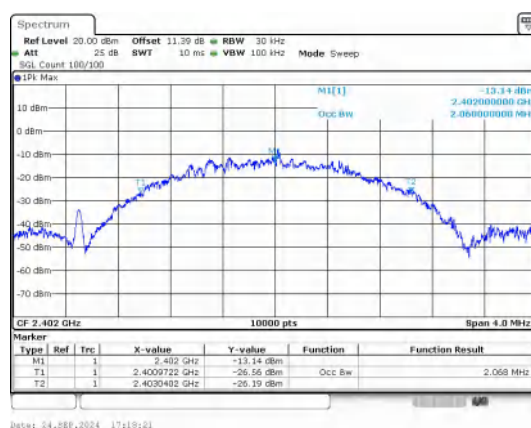
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0334
BLE 1M	19	2440	1.0352
BLE 1M	39	2480	1.0324
BLE 2M	0	2402	2.0680
BLE 2M	19	2440	2.0544
BLE 2M	39	2480	2.0496

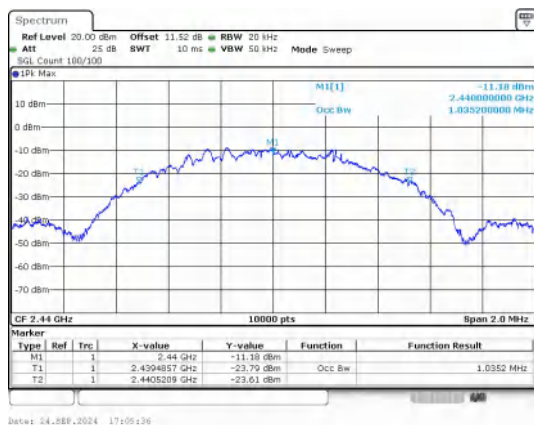
Test Graphs



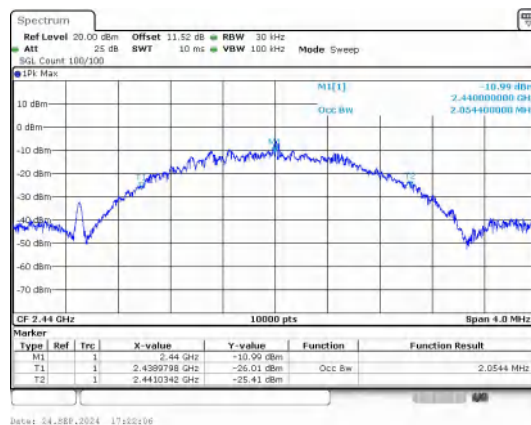
BLE 1M_Channel 0



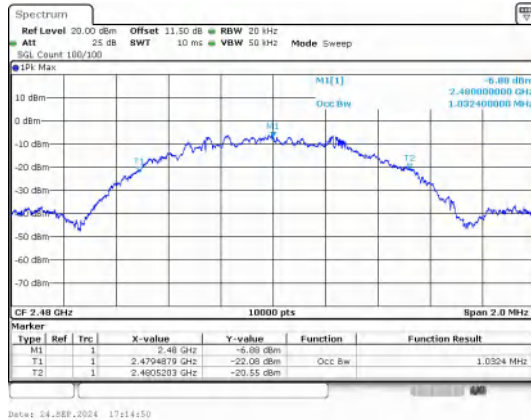
BLE 2M_Channel 0



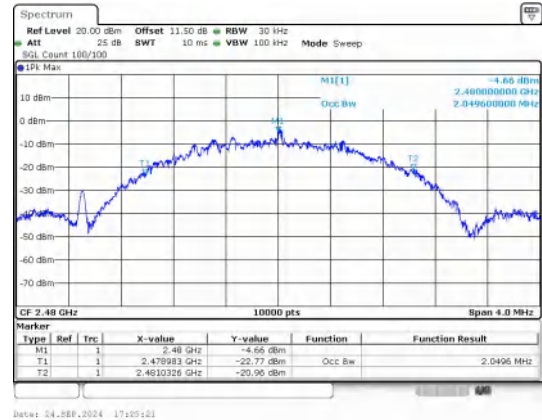
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



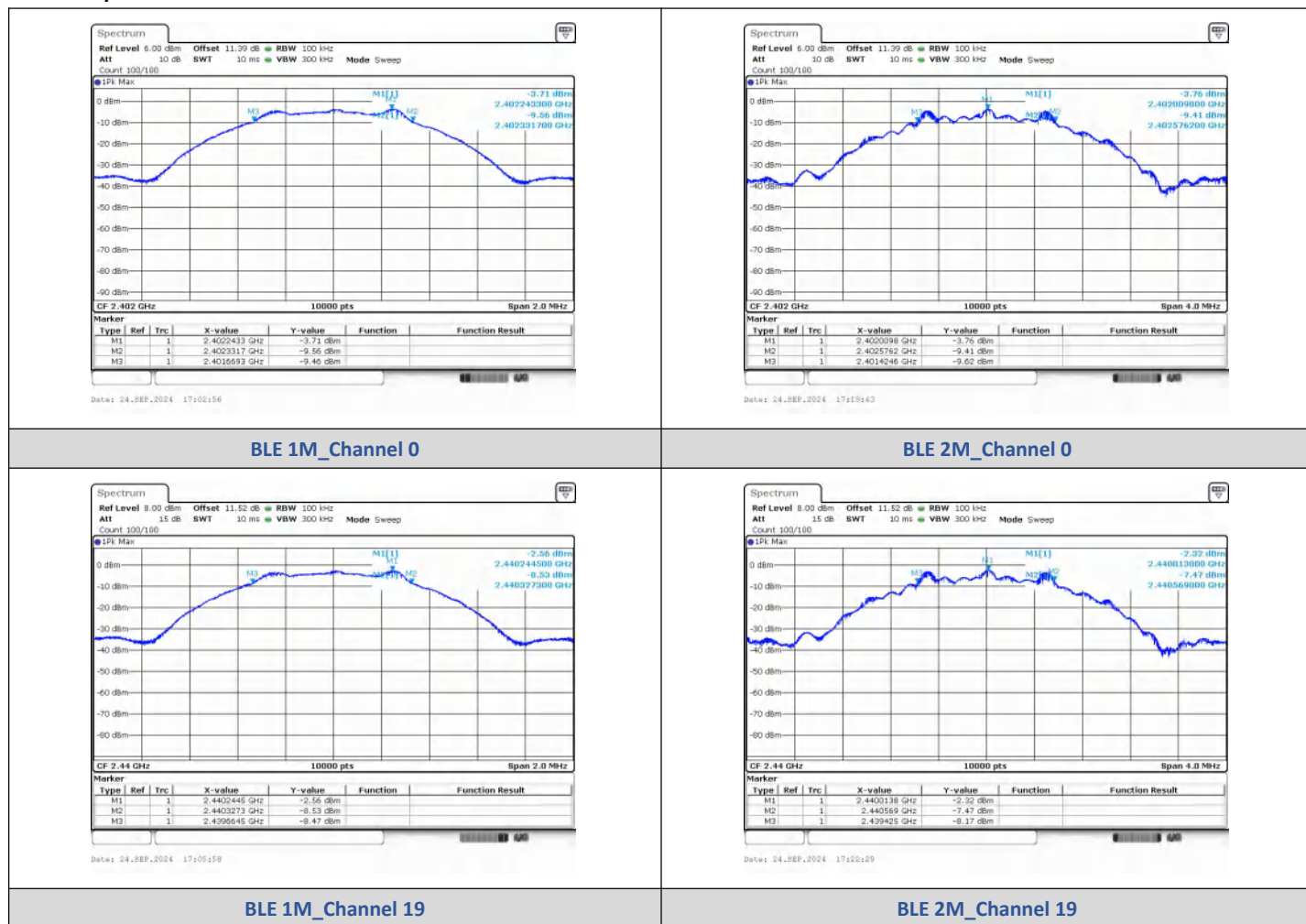
BLE 2M_Channel 39

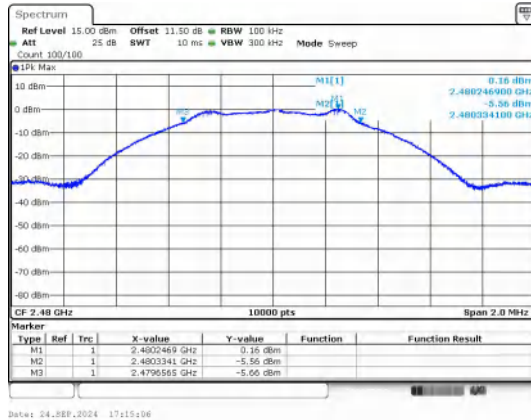
3) 6dB Bandwidth

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	1.160		PASS
	19	2440	1.140		PASS
	39	2480	1.150		PASS

Test Graphs





BLE 1M_Channel 39



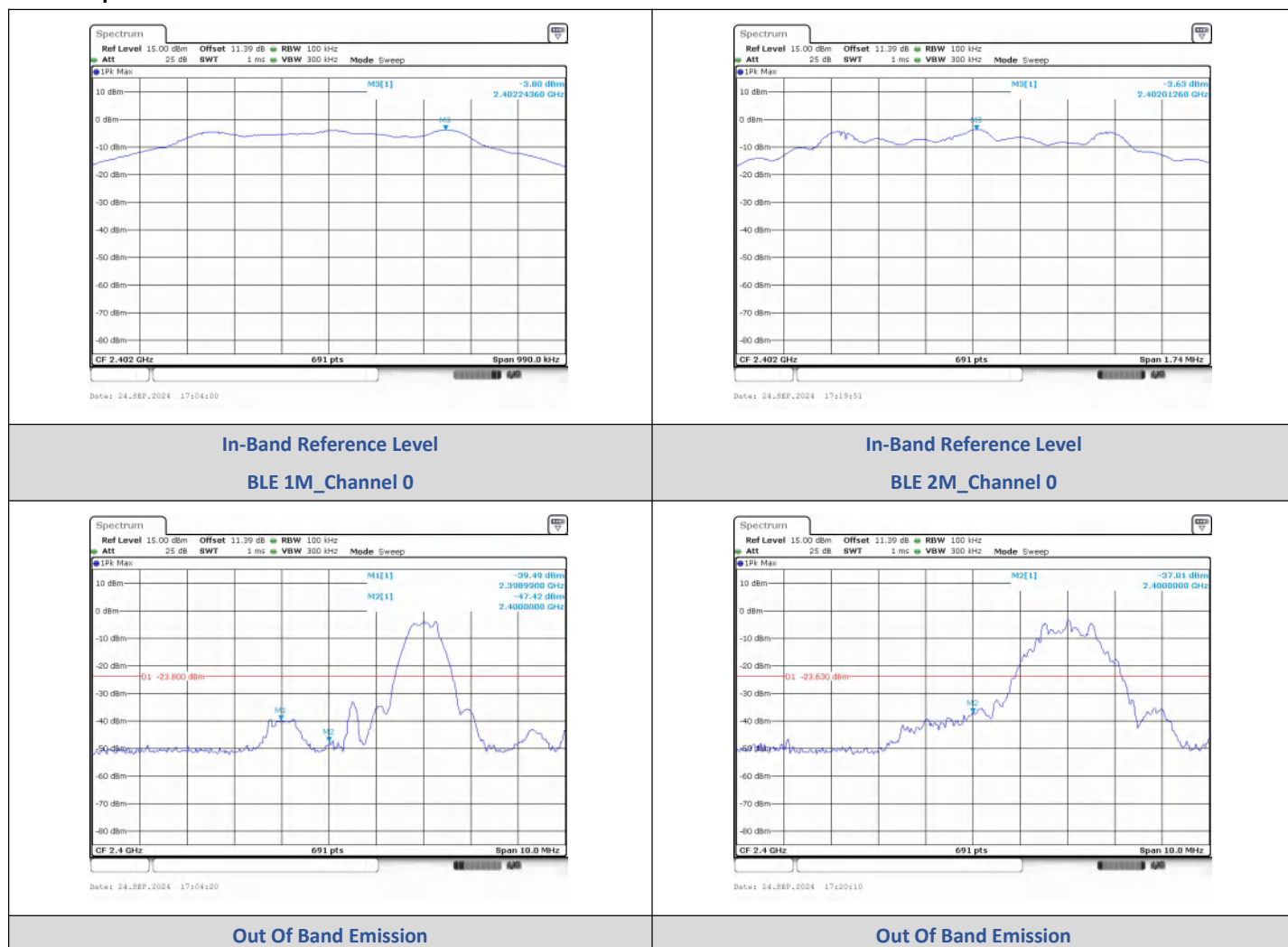
BLE 2M_Channel 39

4) Conducted Out Of Band Emission

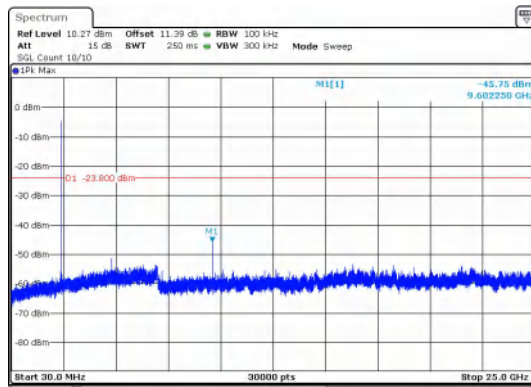
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.99	-39.492	-23.8	-15.692	PASS
		2400.00	-47.420	-23.8	-23.620	PASS
		9602.20	-45.755	-23.8	-21.955	PASS
	19	9753.73	-41.477	-22.42	-19.057	PASS
		2483.50	-48.894	-19.86	-29.034	PASS
		9914.37	-42.428	-19.86	-22.568	PASS
BLE 2M	0	2400.00	-37.015	-23.63	-13.385	PASS
		9602.25	-46.183	-23.63	-22.553	PASS
	19	9753.73	-41.368	-22.16	-19.208	PASS
		2483.50	-50.126	-19.57	-30.556	PASS
	39	9914.37	-42.212	-19.57	-22.642	PASS

Test Graphs

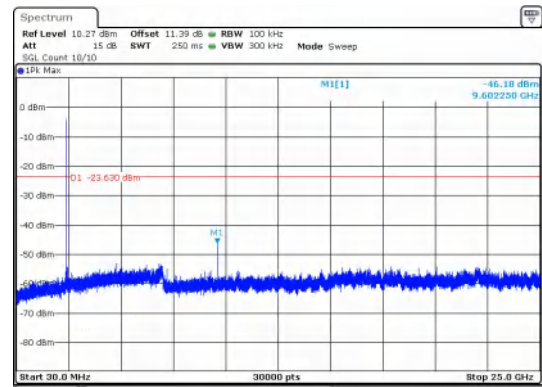


BLE 1M_Channel 0



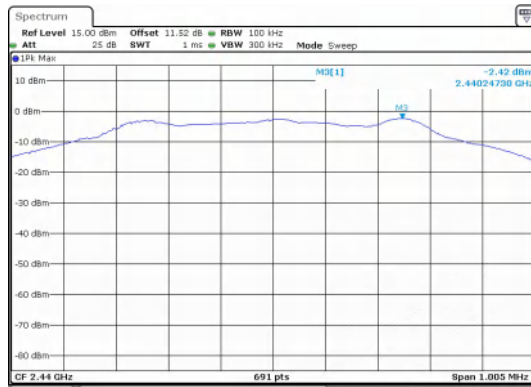
Date: 24.SEP.2024 17:04:42

BLE 2M_Channel 0



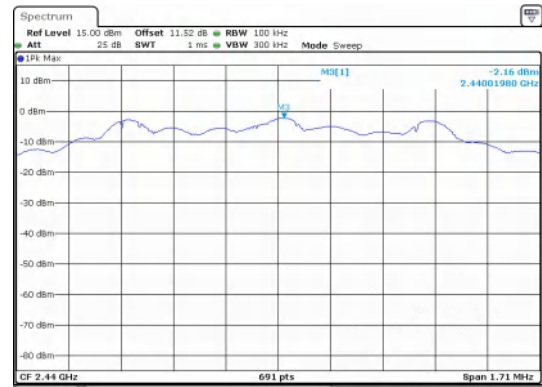
Date: 24.SEP.2024 17:20:32

30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



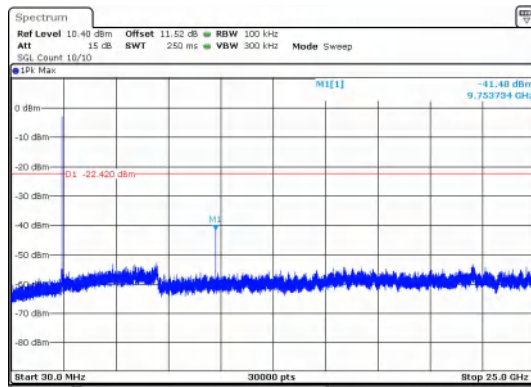
Date: 24.SEP.2024 17:07:02

30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



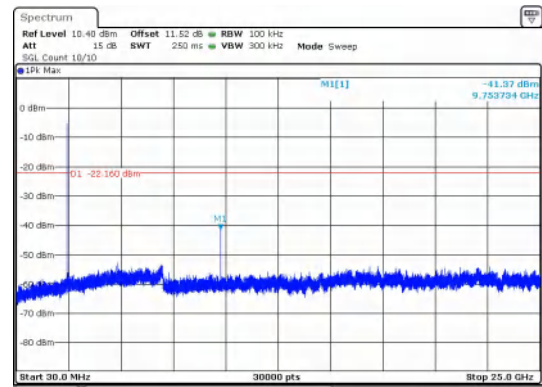
Date: 24.SEP.2024 17:23:37

In-Band Reference Level
BLE 1M_Channel 19



Date: 24.SEP.2024 17:07:26

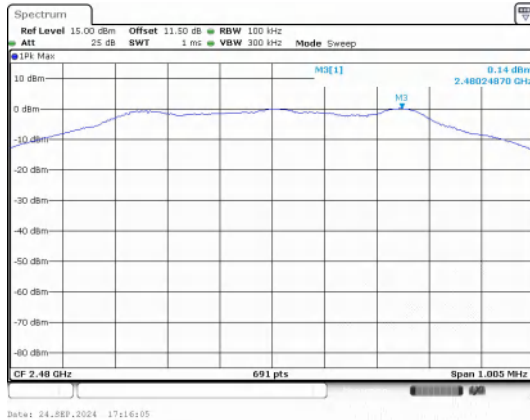
In-Band Reference Level
BLE 2M_Channel 19



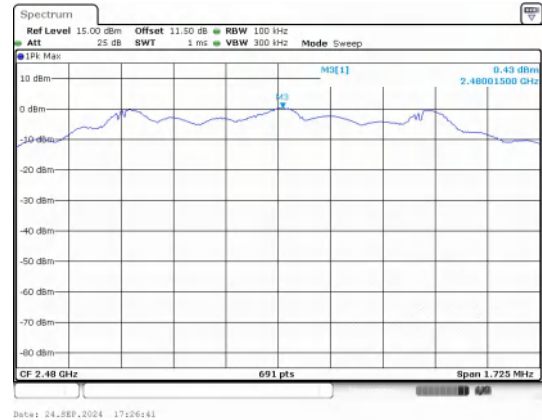
Date: 24.SEP.2024 17:24:01

30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19

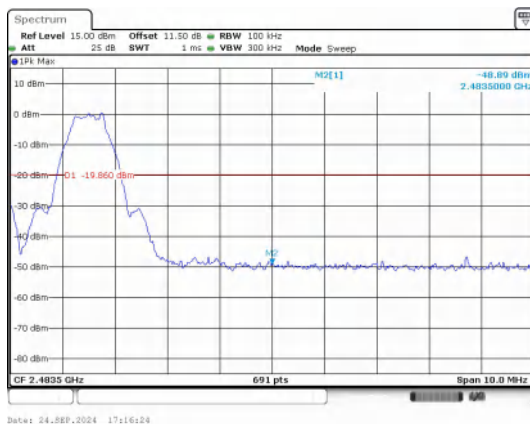
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



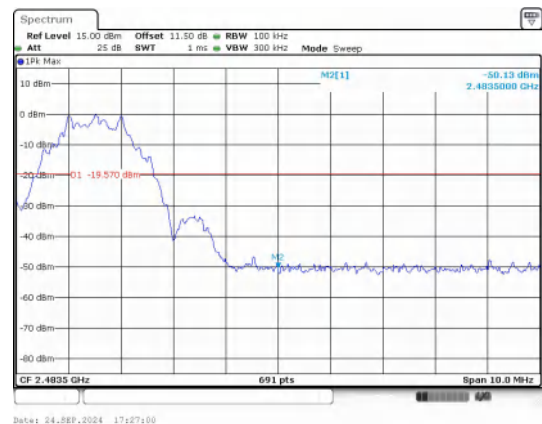
In-Band Reference Level
BLE 1M_Channel 39



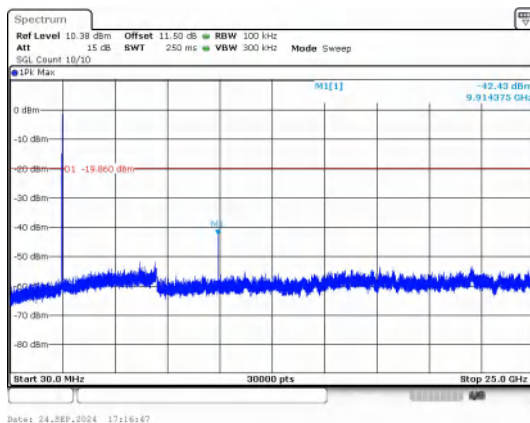
In-Band Reference Level
BLE 2M_Channel 39



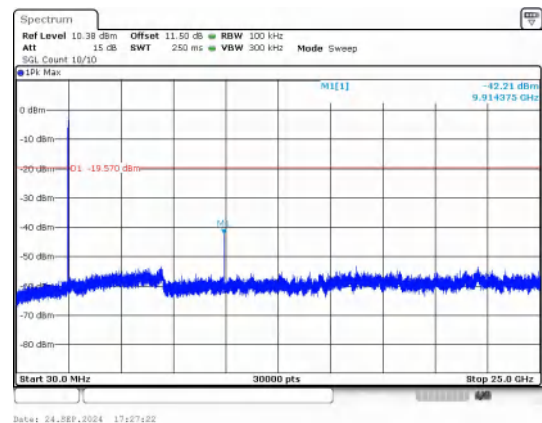
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



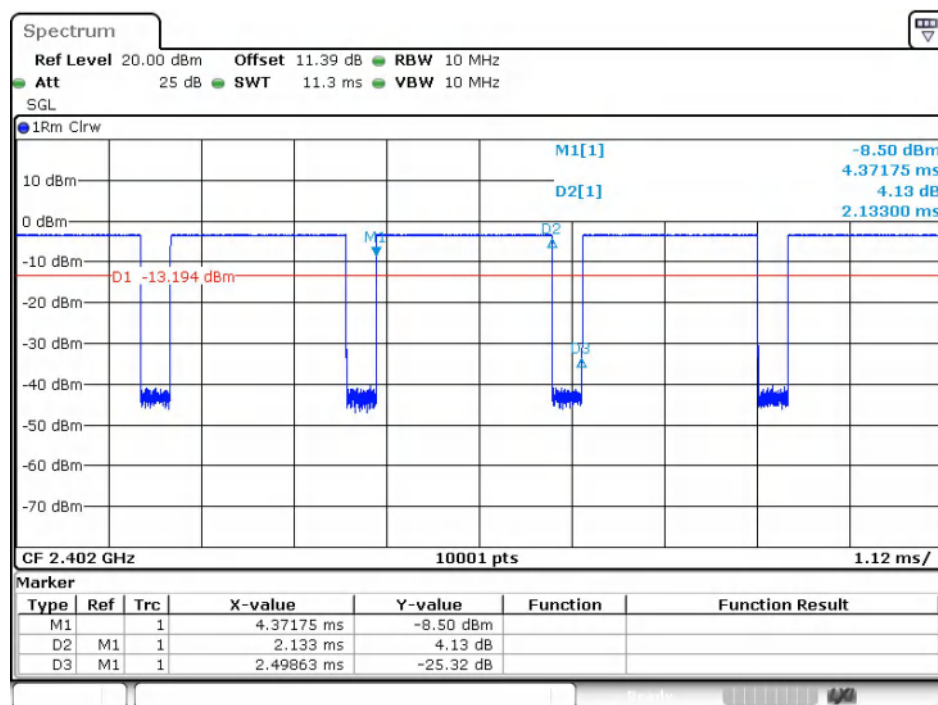
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39

5) Duty Cycle

Test Result

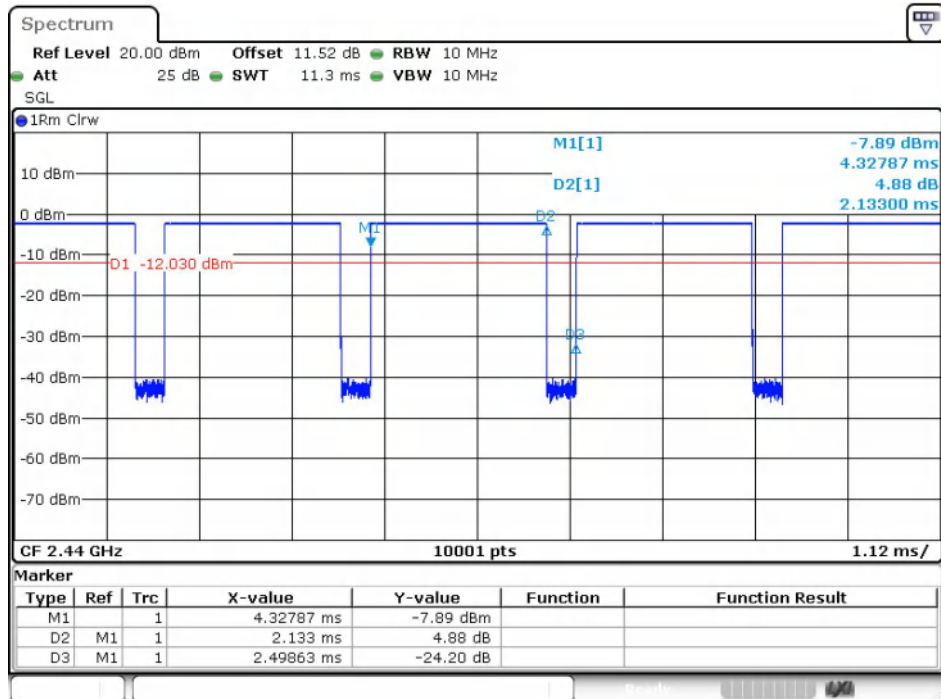
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.133	2.499	85.37	0.8537	0.6869	0.47
	19	2.133	2.499	85.37	0.8537	0.6869	0.47
	39	2.133	2.499	85.37	0.8537	0.6869	0.47
BLE 2M	0	1.075	2.486	43.25	0.4325	3.6401	0.93
	19	1.081	2.499	43.27	0.4327	3.6381	0.93
	39	1.081	2.499	43.27	0.4327	3.6381	0.93

Test Graphs



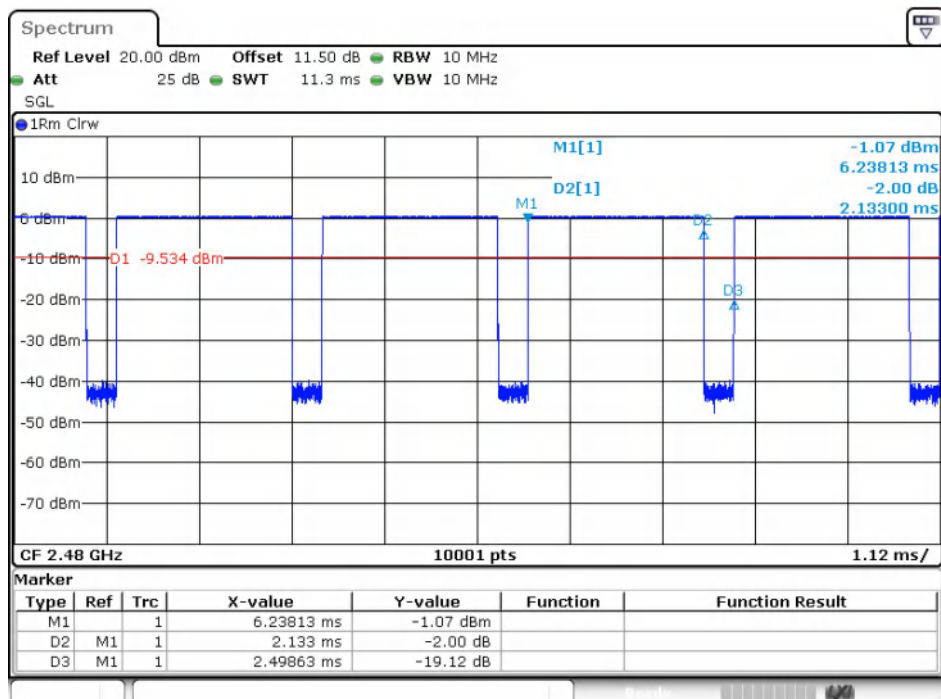
Date: 24.SEP.2024 17:02:19

BLE 1M_Channel 0



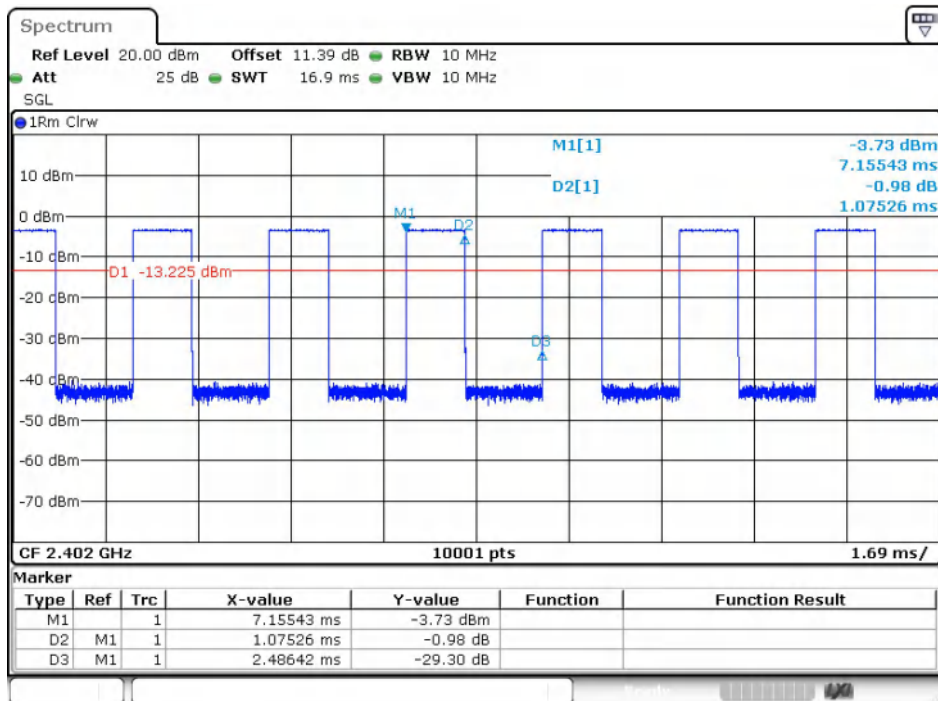
Date: 24.SEP.2024 17:05:22

BLE 1M_Channel 19



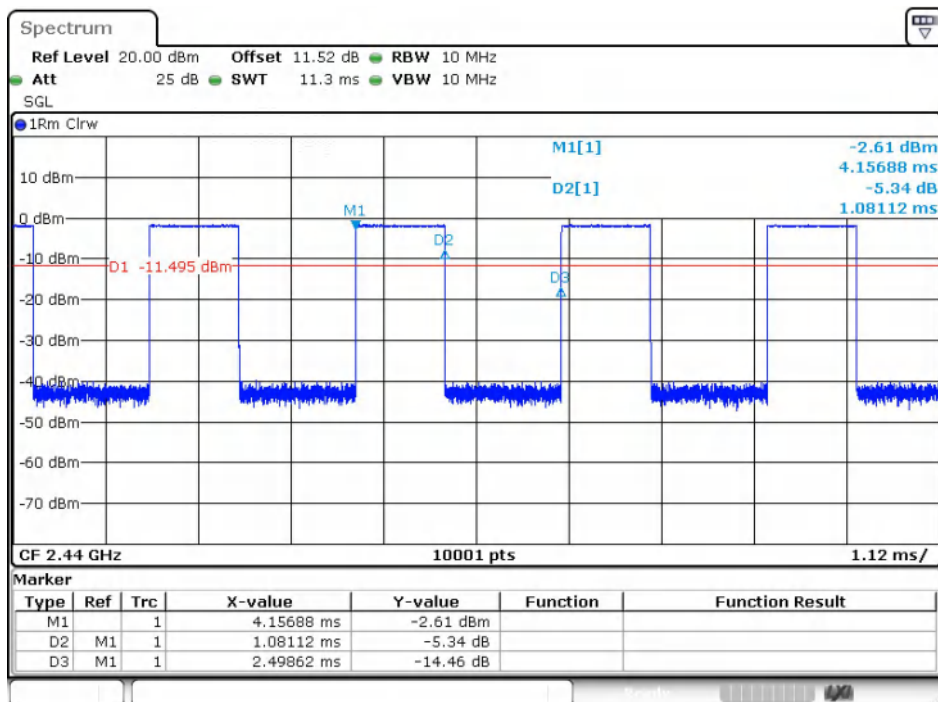
Date: 24.SEP.2024 17:14:36

BLE 1M_Channel 39



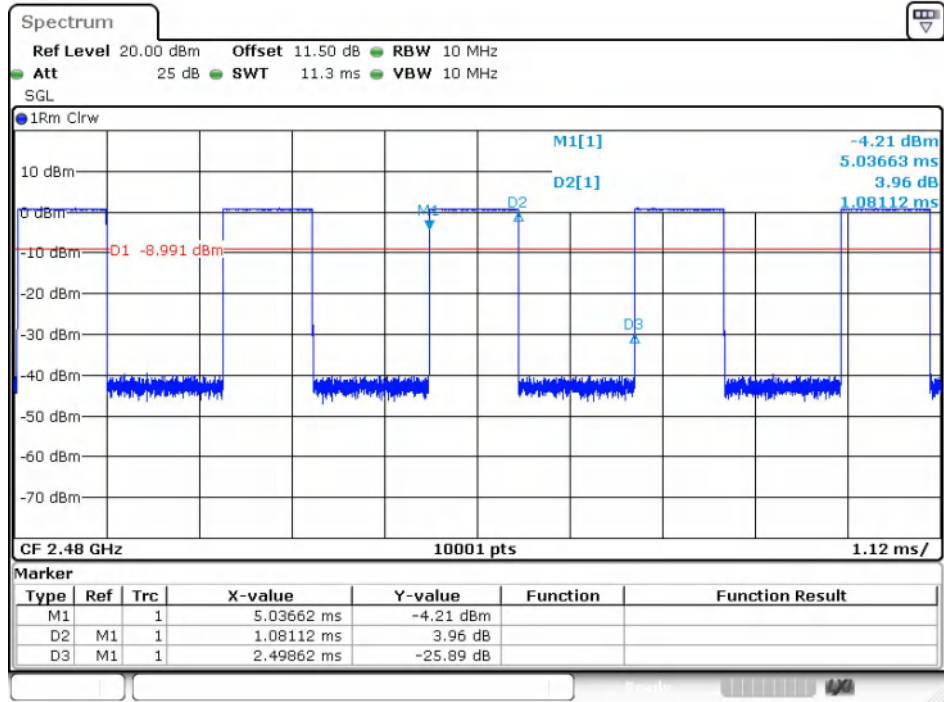
Date: 24.SEP.2024 17:18:06

BLE 2M_Channel 0



Date: 24.SEP.2024 17:21:52

BLE 2M_Channel 19



Date: 24.SEP.2024 17:25:07

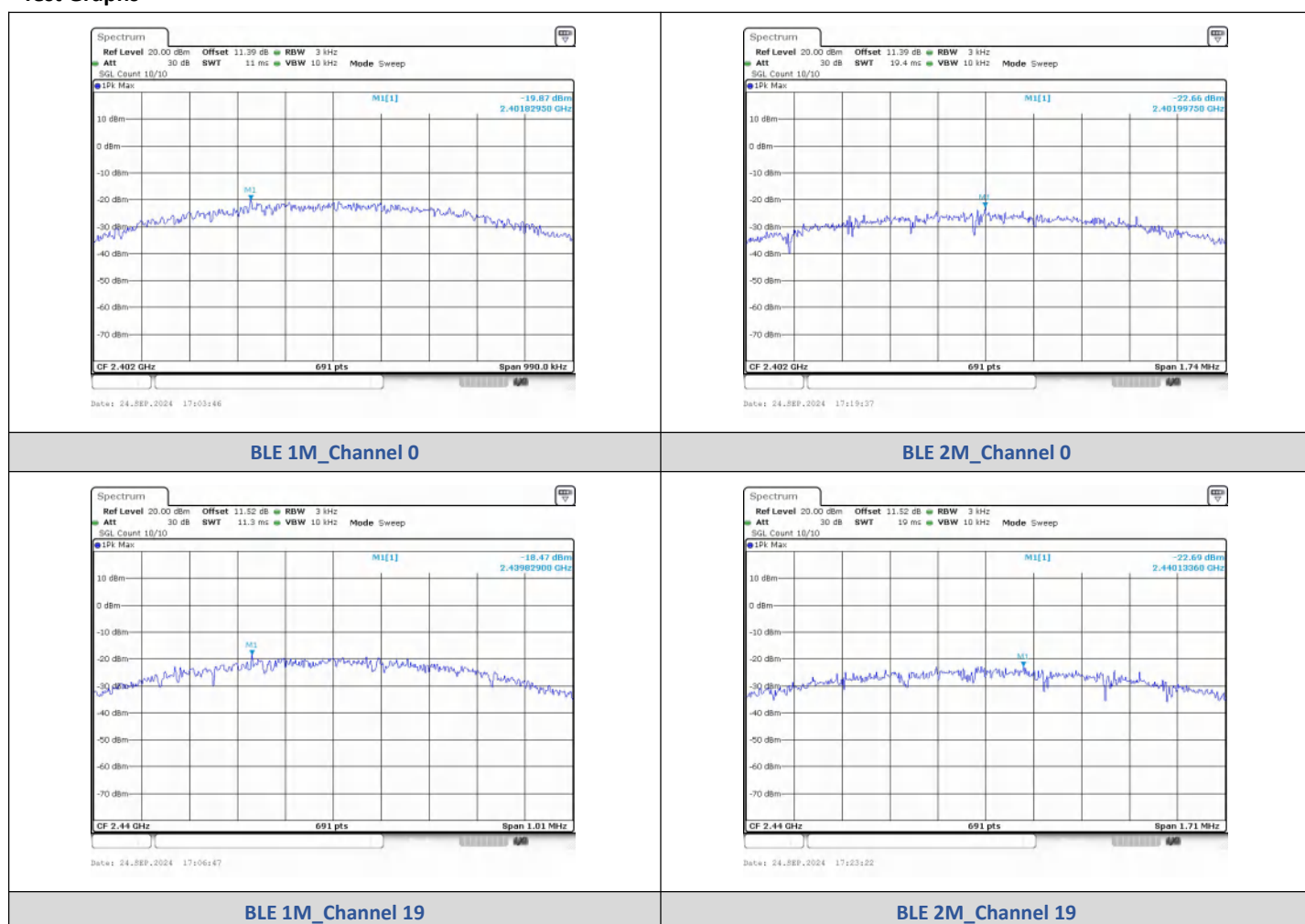
BLE 2M_Channel 39

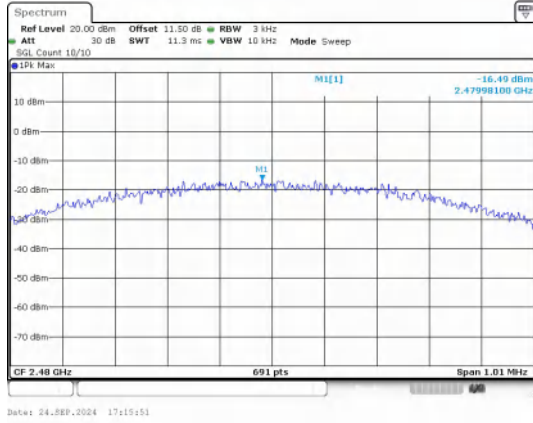
6) Power Spectral Density

Test Result

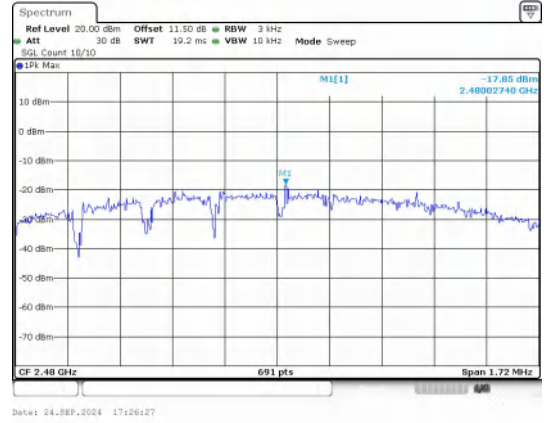
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-19.87	≤8	PASS
BLE 1M	19	-18.47	≤8	PASS
BLE 1M	39	-16.49	≤8	PASS
BLE 2M	0	-22.66	≤8	PASS
BLE 2M	19	-22.69	≤8	PASS
BLE 2M	39	-17.85	≤8	PASS

Test Graphs





BLE 1M_Channel 39



BLE 2M_Channel 39