

Appendix

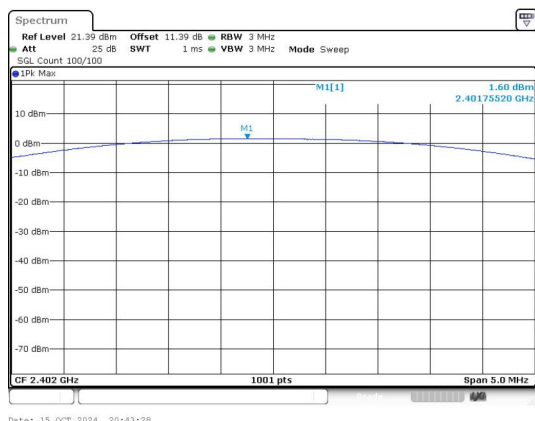
Report No.:	CISRR24101001001
FCC ID:	2BFQI-V96
Product Name:	keyboard
Model No.:	V96
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Conducted Output Power

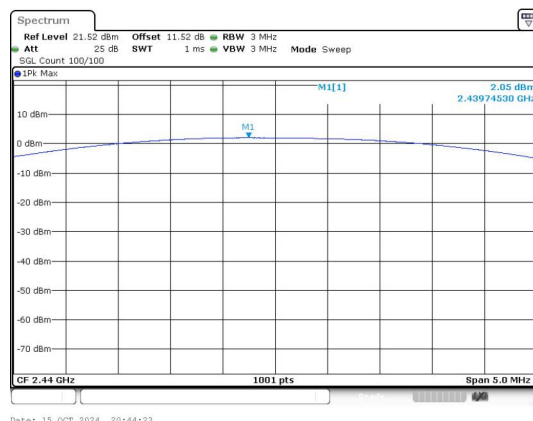
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	1.60	1.45	≤30	PASS
	19	2.05	1.6	≤30	PASS
	39	2.49	1.78	≤30	PASS
BLE 2M	0	1.72	1.49	≤30	PASS
	19	2.54	1.79	≤30	PASS
	39	3.11	2.04	≤30	PASS

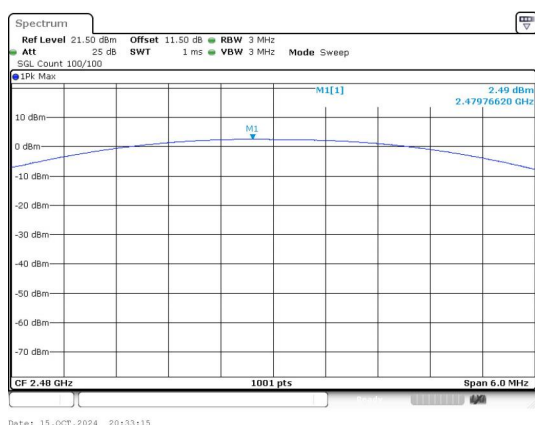
Test Graphs



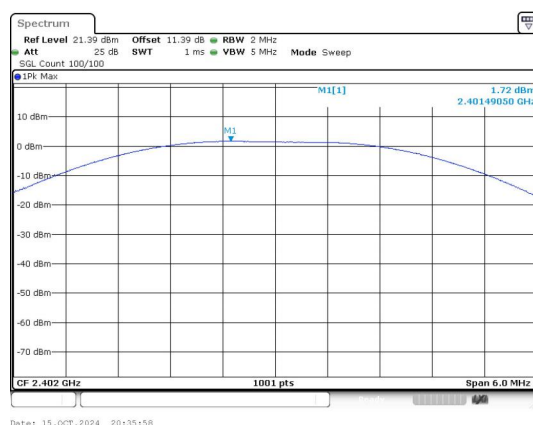
Peak Output Power
BLE 1M_Channel 0



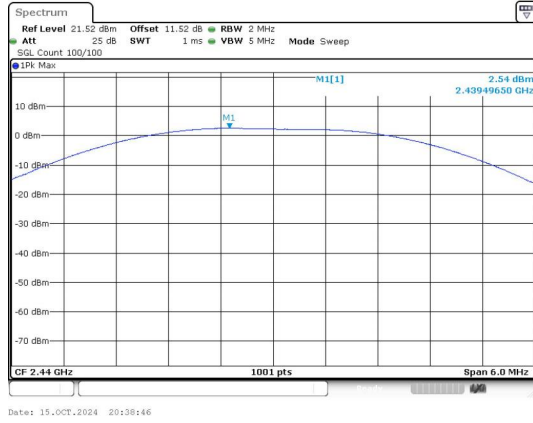
Peak Output Power
BLE 1M_Channel 19



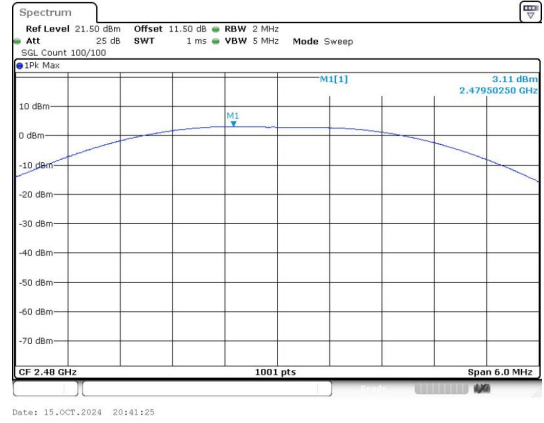
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



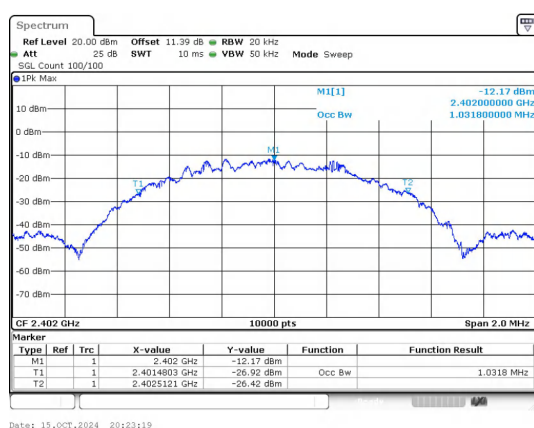
Peak Output Power
BLE 2M_Channel 39

2) 99% Bandwidth

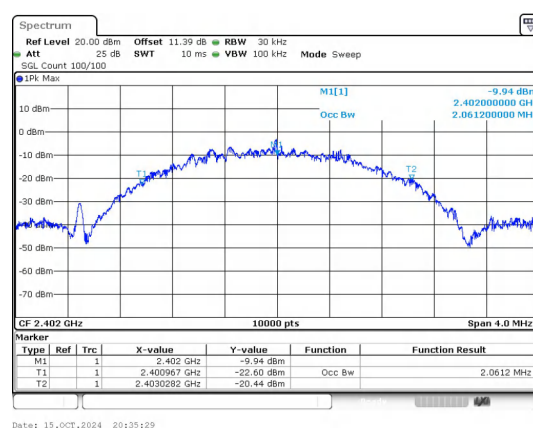
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0318
BLE 1M	19	2440	1.0322
BLE 1M	39	2480	1.0302
BLE 2M	0	2402	2.0612
BLE 2M	19	2440	2.0552
BLE 2M	39	2480	2.0564

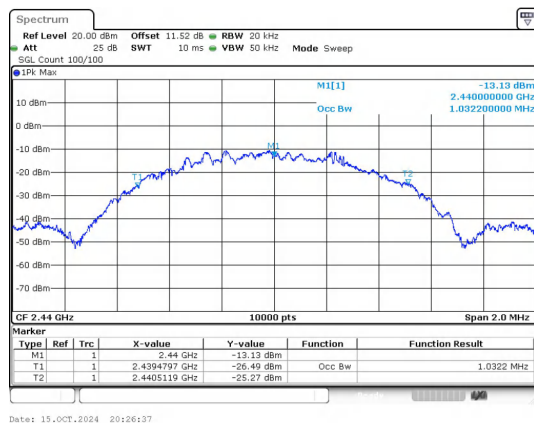
Test Graphs



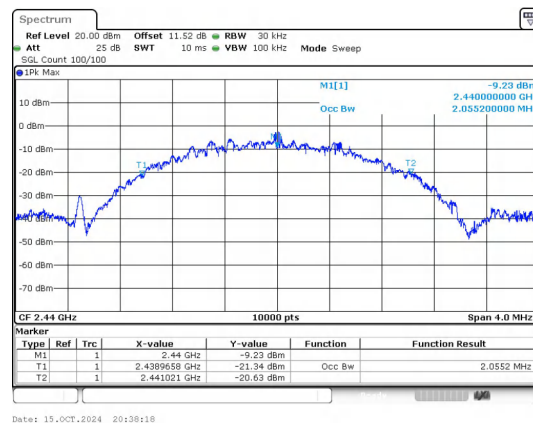
BLE 1M_Channel 0



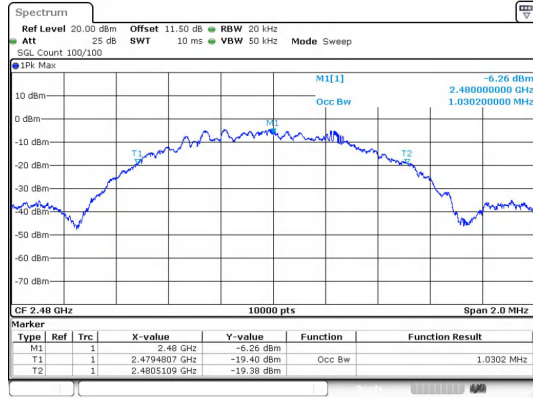
BLE 2M_Channel 0



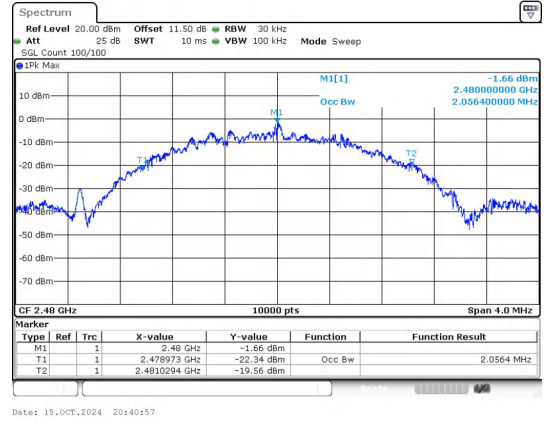
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



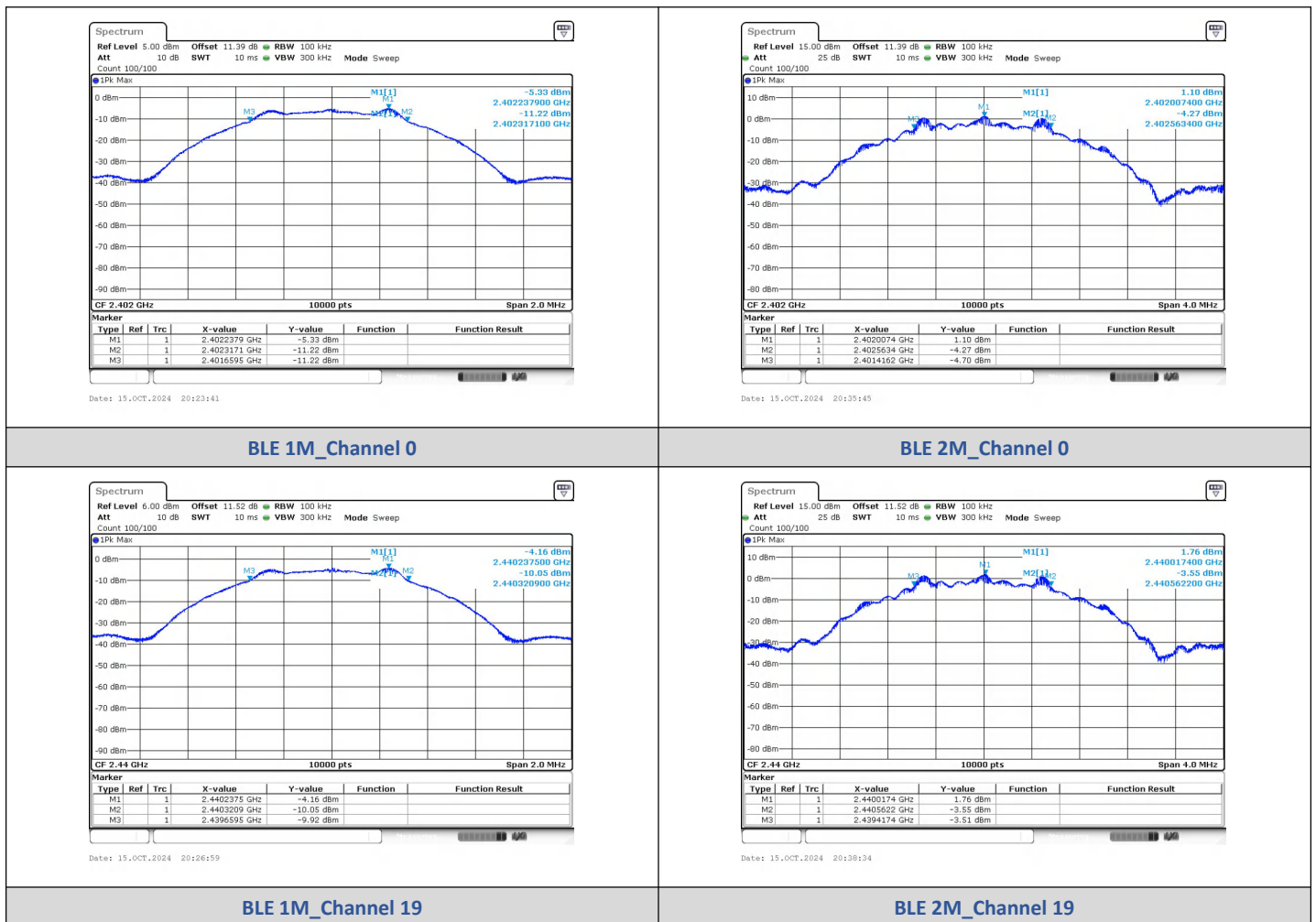
BLE 2M_Channel 39

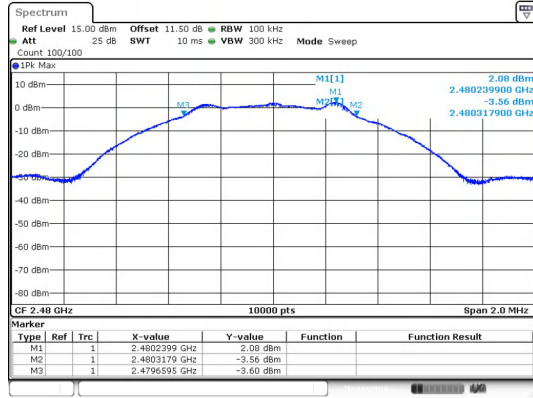
3) 6dB Bandwidth

Test Result

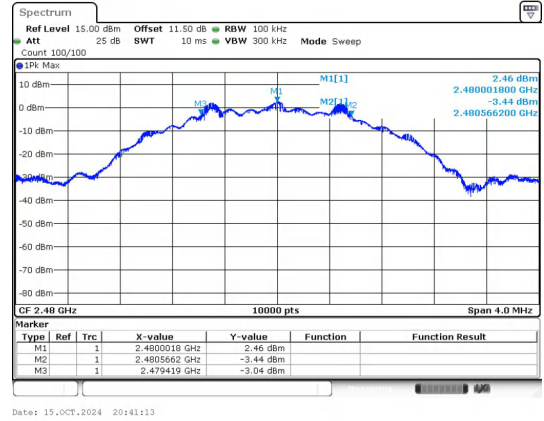
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.140		PASS
	19	2440	1.140		PASS
	39	2480	1.150		PASS

Test Graphs





BLE 1M_Channel 39



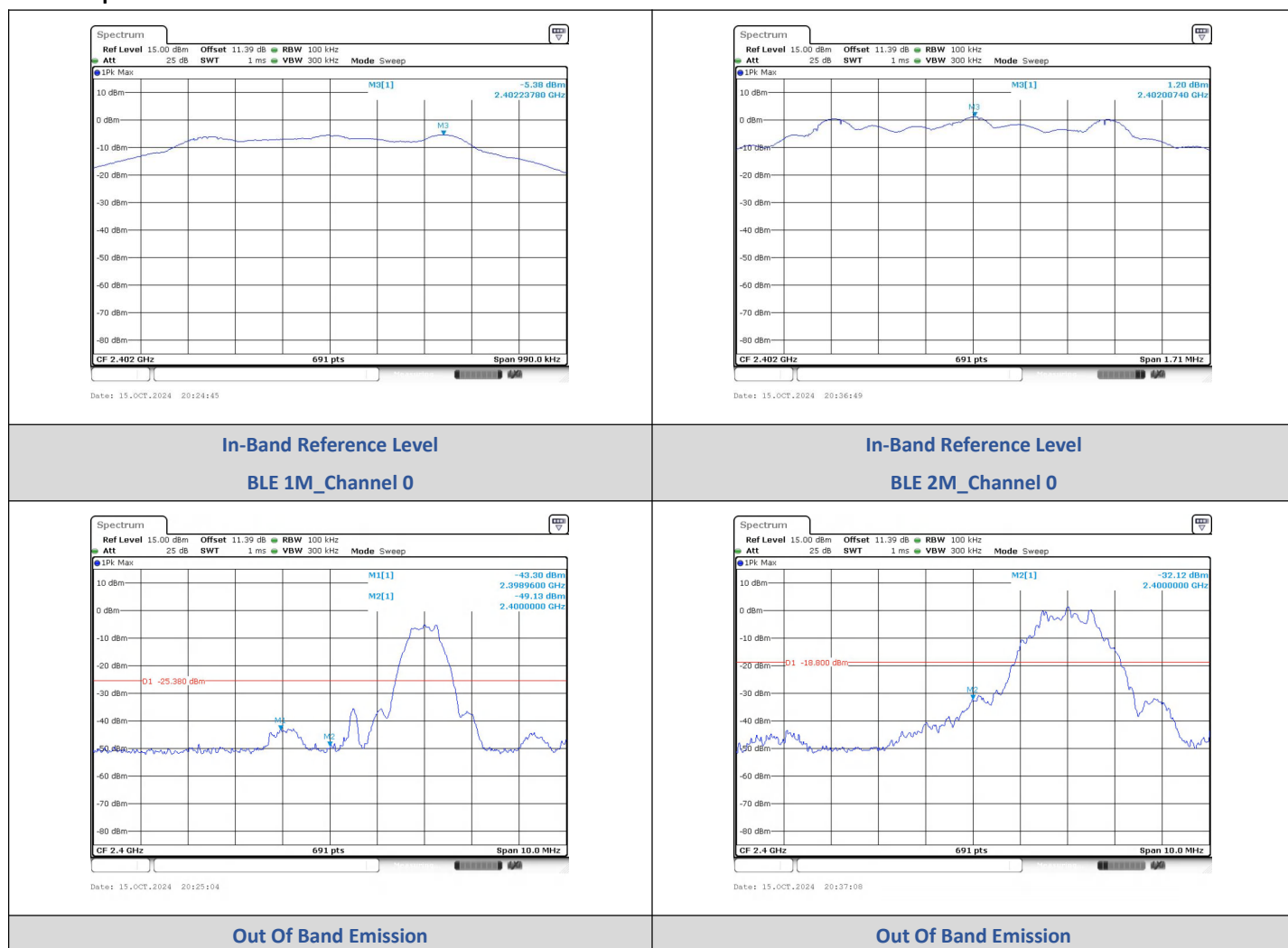
BLE 2M_Channel 39

4) Conducted Out Of Band Emission

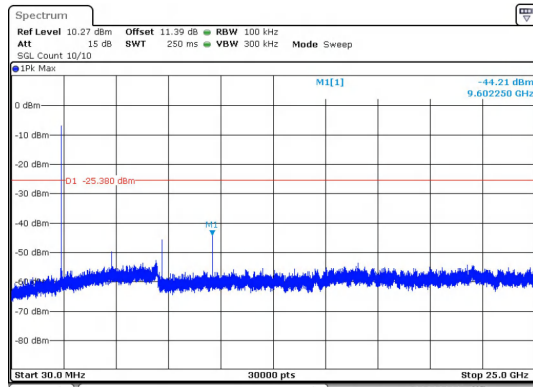
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.96	-43.301	-25.38	-17.921	PASS
		2400.00	-49.957	-25.38	-24.577	PASS
		9602.20	-44.212	-25.38	-18.832	PASS
	19	9753.73	-42.105	-24.16	-17.945	PASS
		2483.50	-43.292	-17.83	-25.462	PASS
		9914.37	-43.208	-17.83	-25.378	PASS
BLE 2M	0	2400.00	-32.117	-18.8	-13.317	PASS
		9602.25	-45.029	-18.8	-26.229	PASS
	19	9753.73	-41.890	-18.11	-23.780	PASS
		2483.50	-49.822	-17.51	-32.312	PASS
	39	9914.37	-43.840	-17.51	-26.330	PASS

Test Graphs

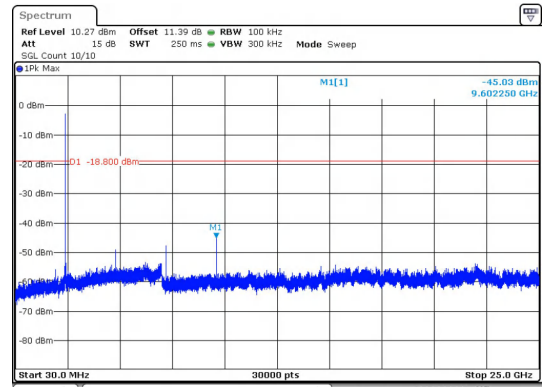


BLE 1M_Channel 0



Date: 15.OCT.2024 20:25:27

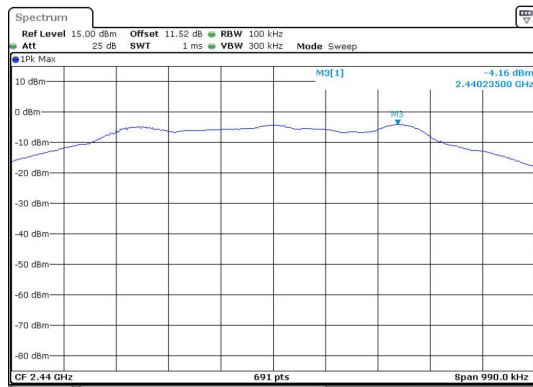
BLE 2M_Channel 0



Date: 15.OCT.2024 20:37:31

30.0 MHz - 25000.0 MHz

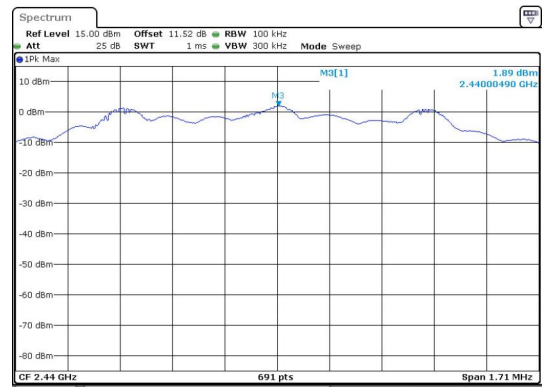
BLE 1M_Channel 0



Date: 15.OCT.2024 20:28:03

30.0 MHz - 25000.0 MHz

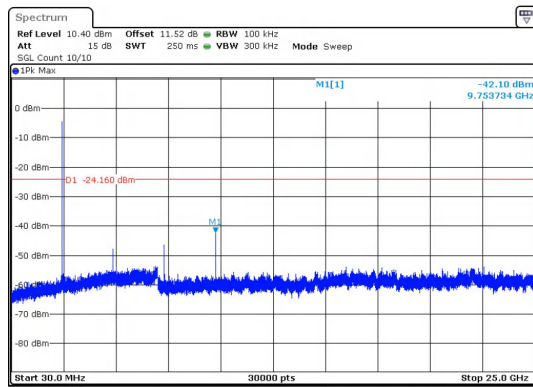
BLE 2M_Channel 0



Date: 15.OCT.2024 20:39:38

In-Band Reference Level

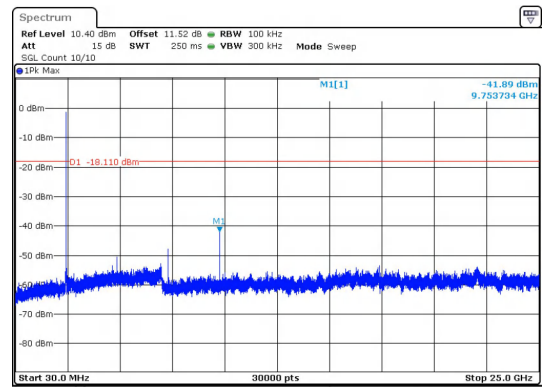
BLE 1M_Channel 19



Date: 15.OCT.2024 20:28:28

In-Band Reference Level

BLE 2M_Channel 19



Date: 15.OCT.2024 20:40:02

30.0 MHz - 25000.0 MHz

BLE 1M_Channel 19



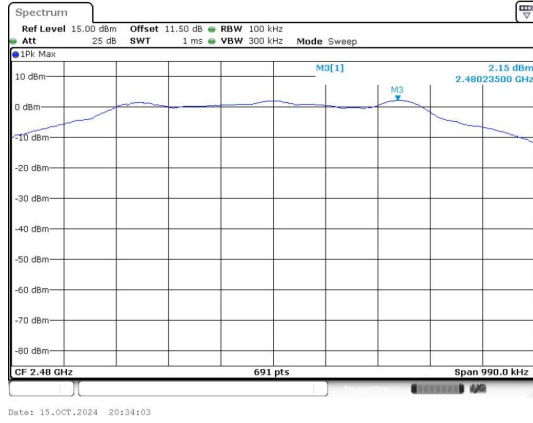
Date: 15.OCT.2024 20:28:28

30.0 MHz - 25000.0 MHz

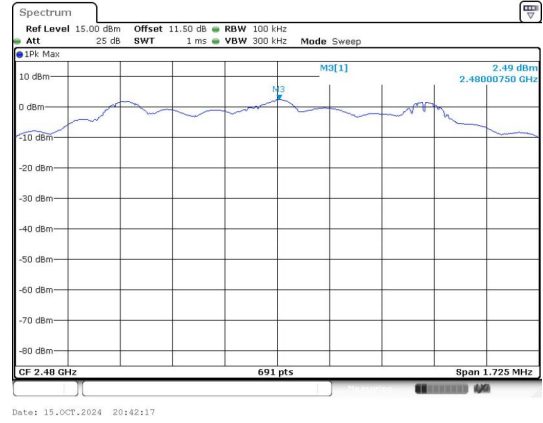
BLE 2M_Channel 19



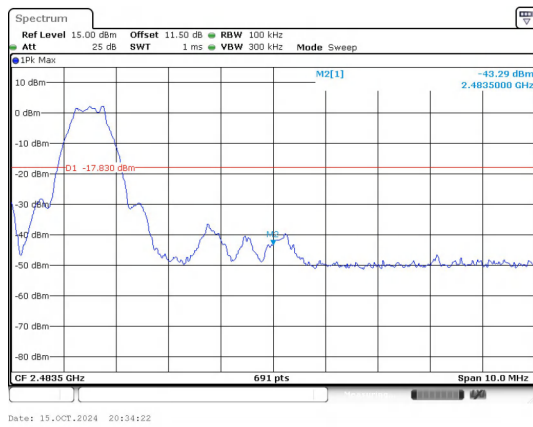
Date: 15.OCT.2024 20:40:02



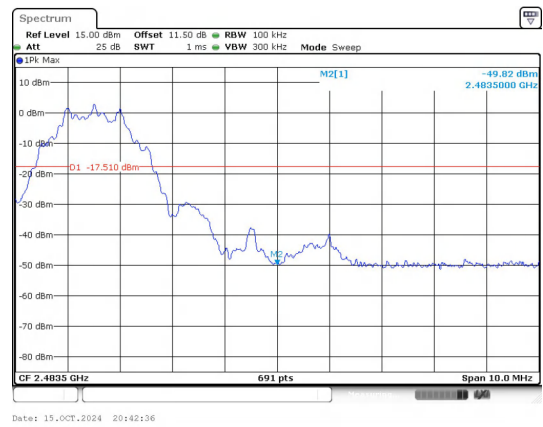
In-Band Reference Level
BLE 1M_Channel 39



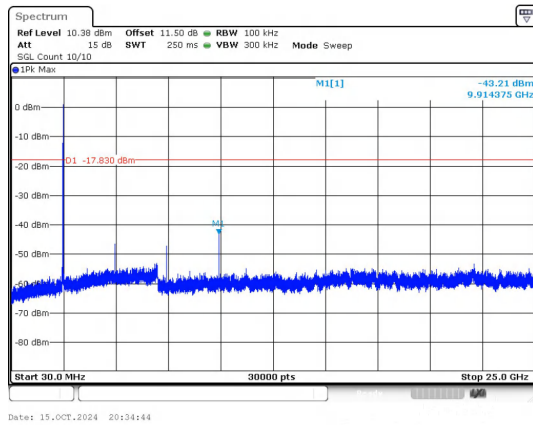
In-Band Reference Level
BLE 2M_Channel 39



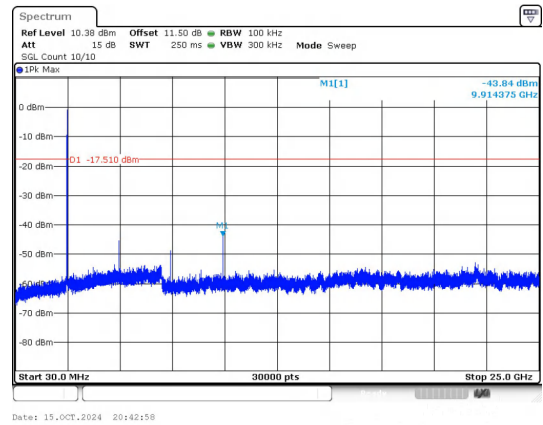
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



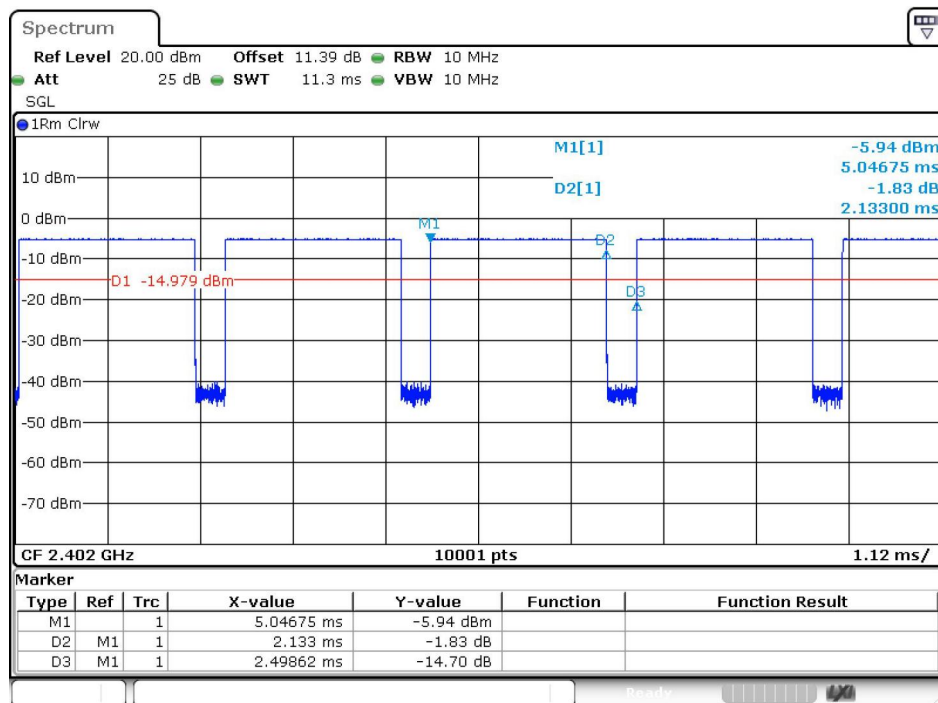
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39

5) Duty Cycle

Test Result

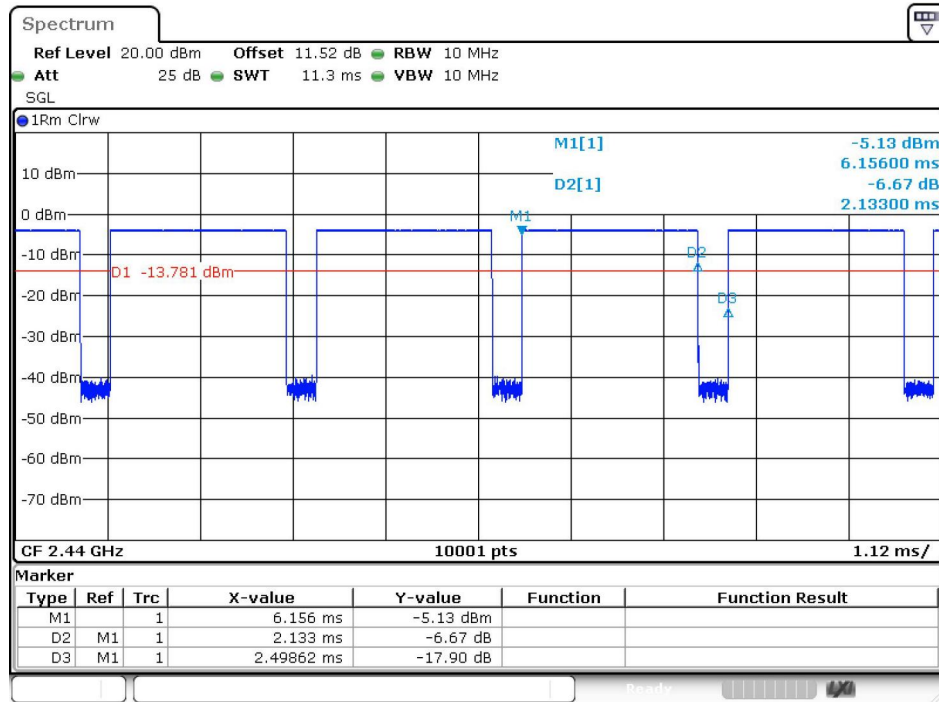
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.133	2.499	85.37	0.8537	0.6869	0.47
	19	2.133	2.499	85.37	0.8537	0.6869	0.47
	39	2.133	2.499	85.37	0.8537	0.6869	0.47
BLE 2M	0	1.081	2.500	43.25	0.4325	3.6401	0.93
	19	1.081	2.500	43.25	0.4325	3.6401	0.93
	39	1.080	2.499	43.22	0.4322	3.6432	0.93

Test Graphs



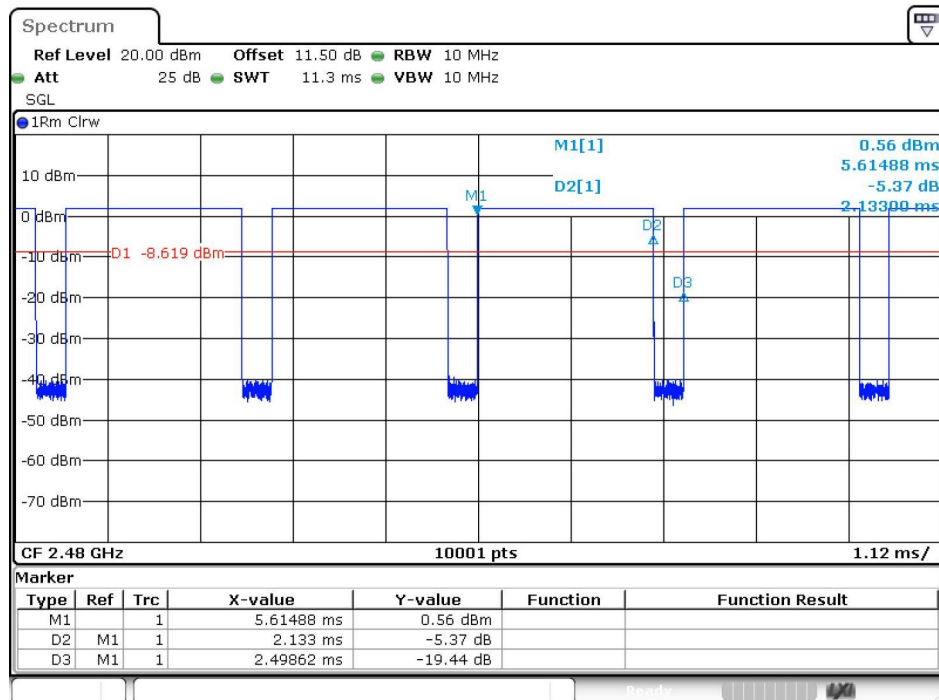
Date: 15.OCT.2024 20:23:05

BLE 1M_Channel 0



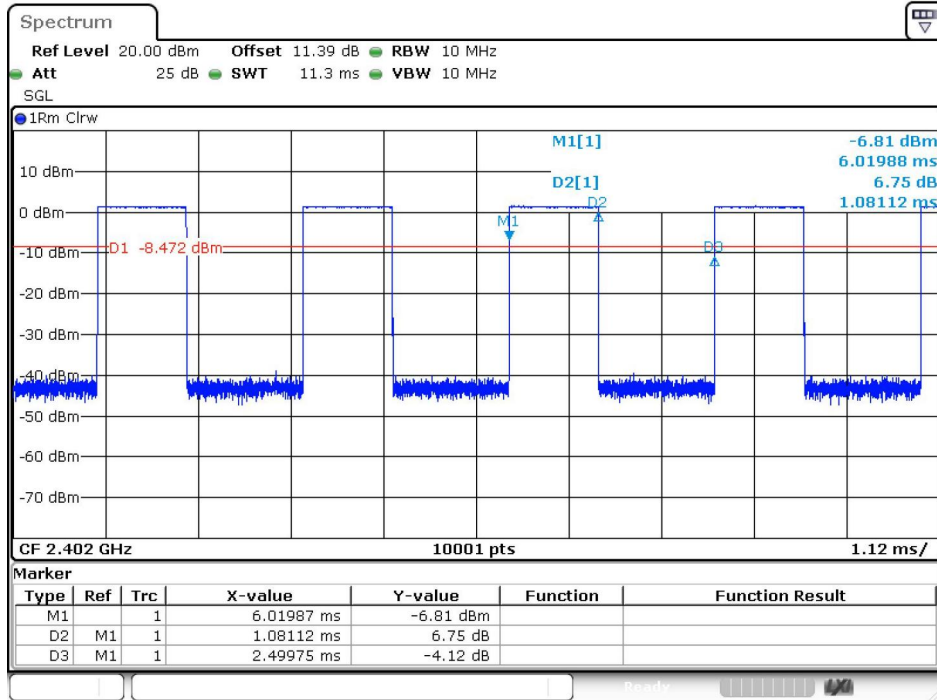
Date: 15.OCT.2024 20:26:22

BLE 1M_Channel 19



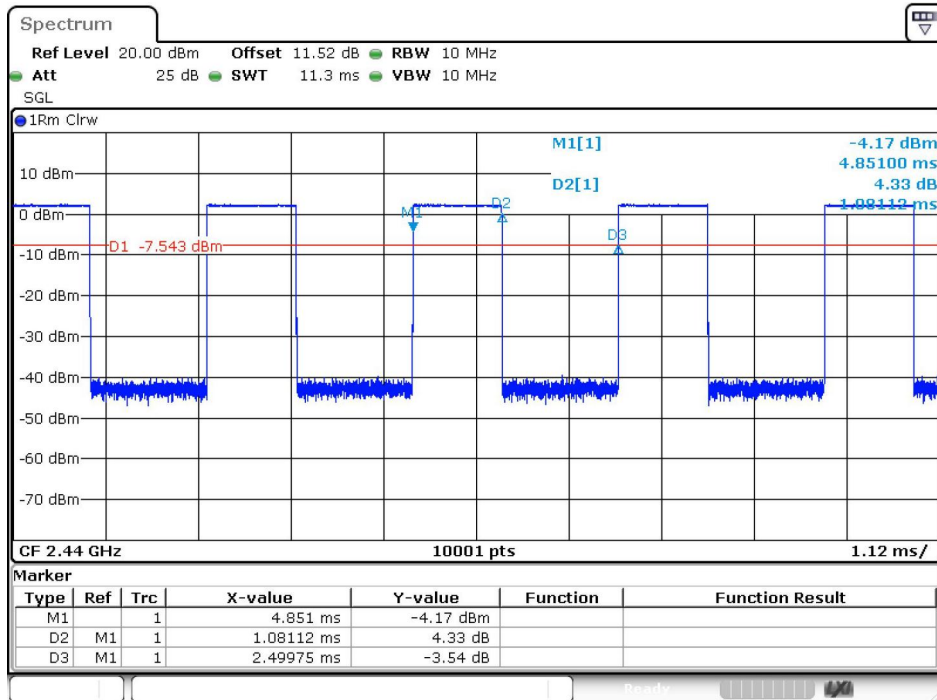
Date: 15.OCT.2024 20:32:33

BLE 1M_Channel 39



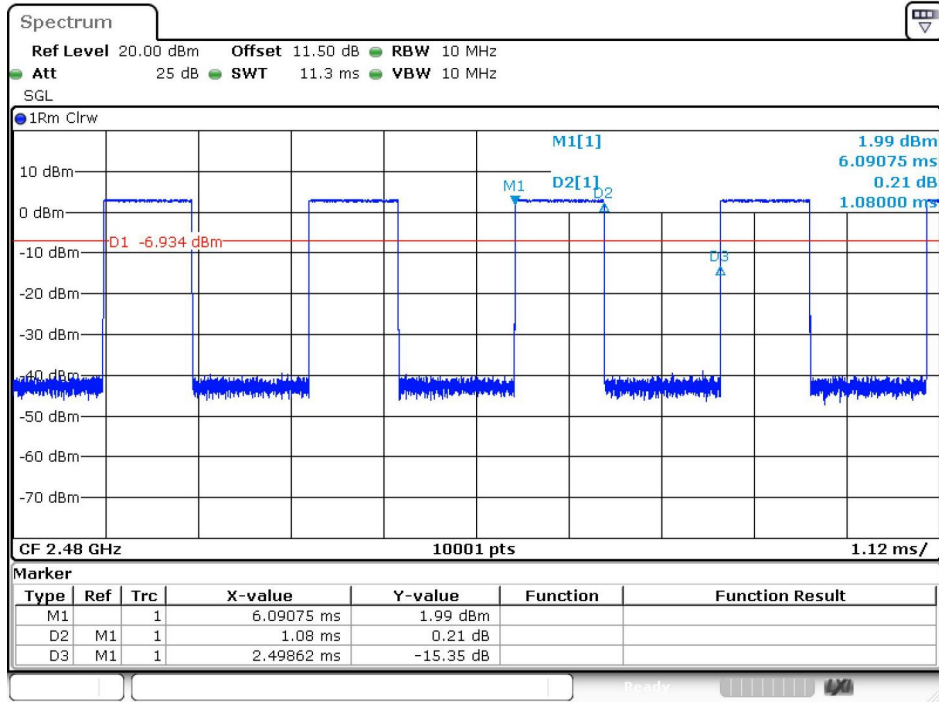
Date: 15.OCT.2024 20:35:15

BLE 2M_Channel 0



Date: 15.OCT.2024 20:38:03

BLE 2M_Channel 19



Date: 15.OCT.2024 20:40:43

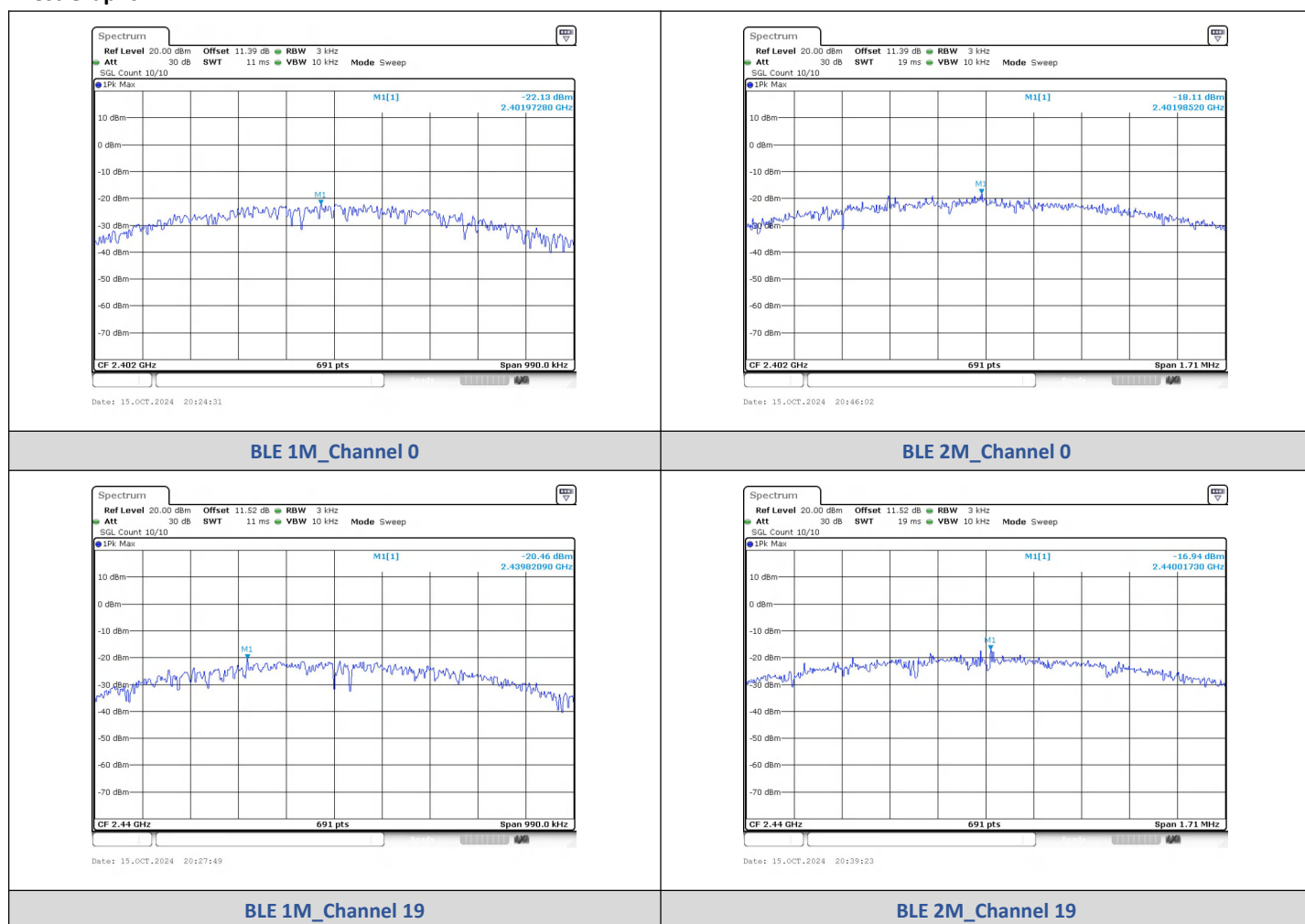
BLE 2M_Channel 39

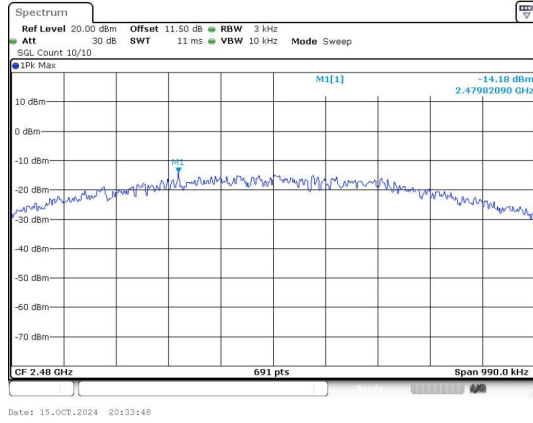
6) Power Spectral Density

Test Result

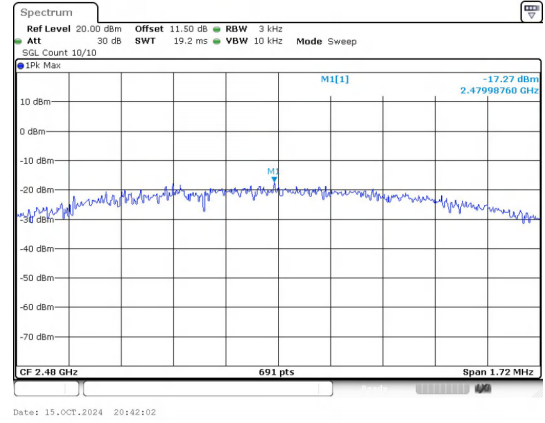
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-22.126	≤8	PASS
BLE 1M	19	-20.457	≤8	PASS
BLE 1M	39	-14.175	≤8	PASS
BLE 2M	0	-18.108	≤8	PASS
BLE 2M	19	-16.936	≤8	PASS
BLE 2M	39	-17.267	≤8	PASS

Test Graphs





BLE 1M_Channel 39



BLE 2M_Channel 39