

Appendix B

Report No.: CISRR24101103902

FCC ID: 2BFQI-V20

Product Name: keyboard

Model No.: V20

Test Engineer: Lucas Huang

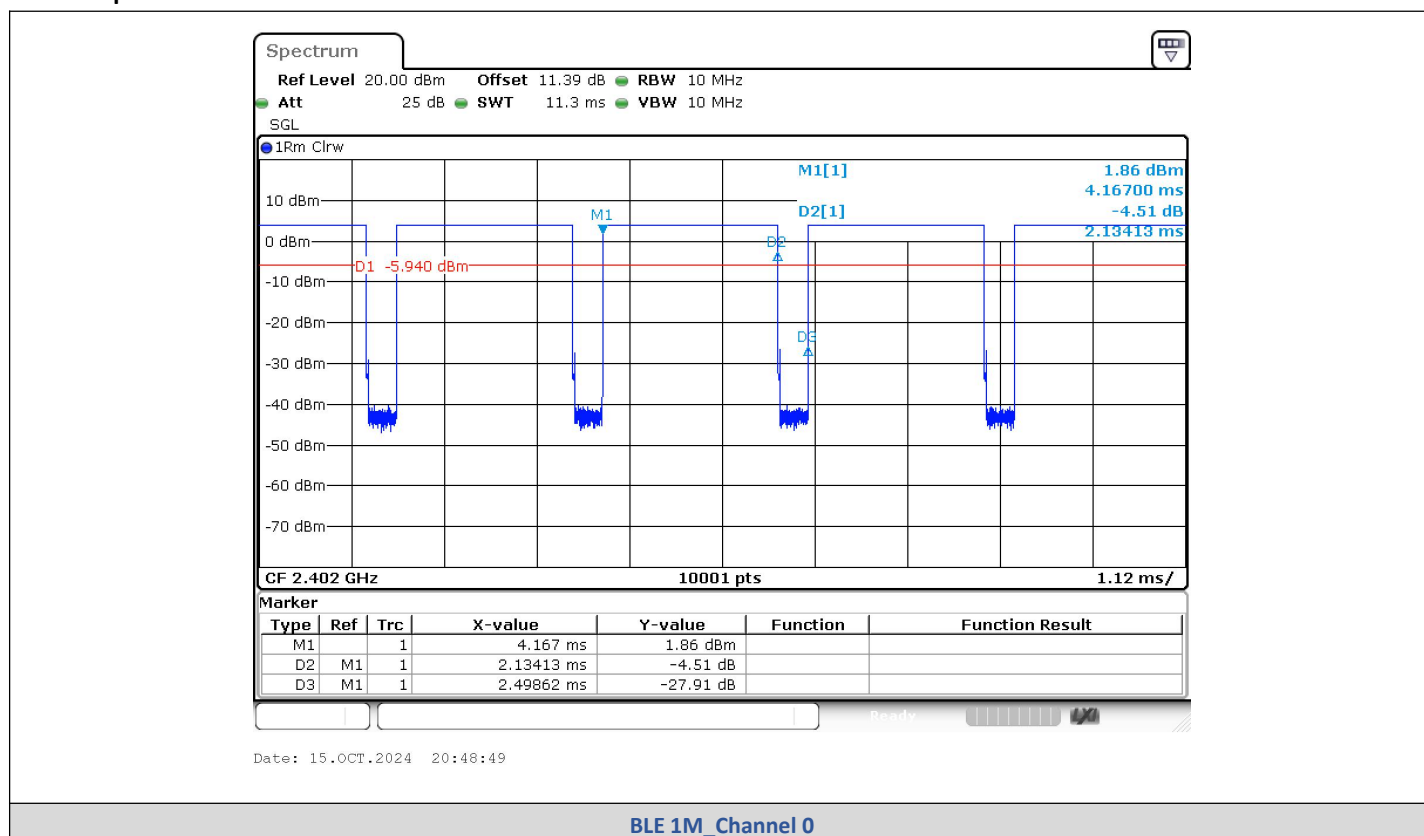
Supervised by: Rory Huang

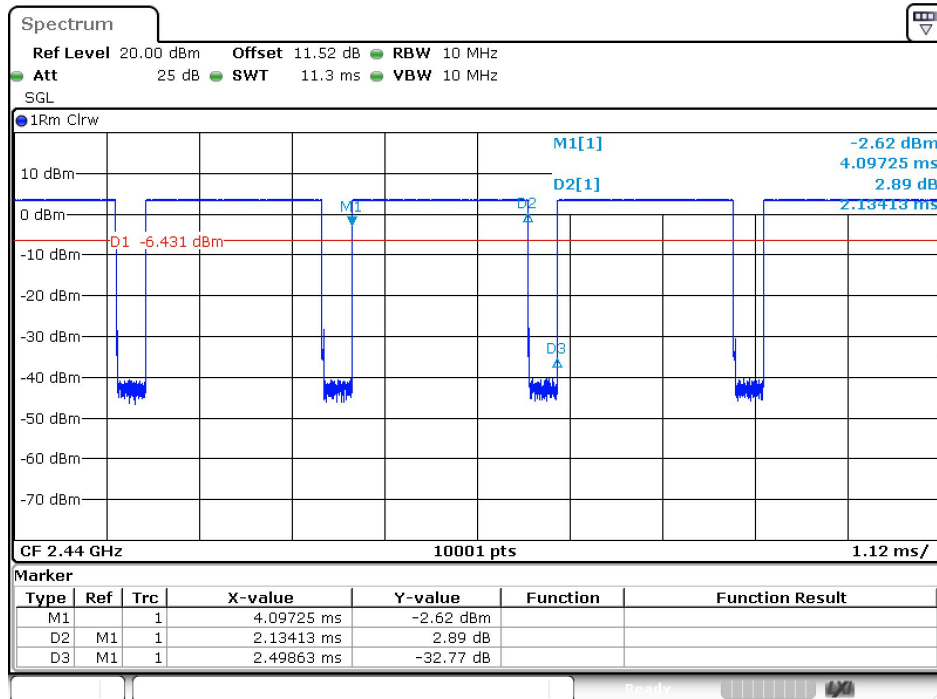
1) Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.134	2.499	85.41	0.8541	0.6849	0.47
	19	2.134	2.499	85.41	0.8541	0.6849	0.47
	39	2.134	2.499	85.41	0.8541	0.6849	0.47

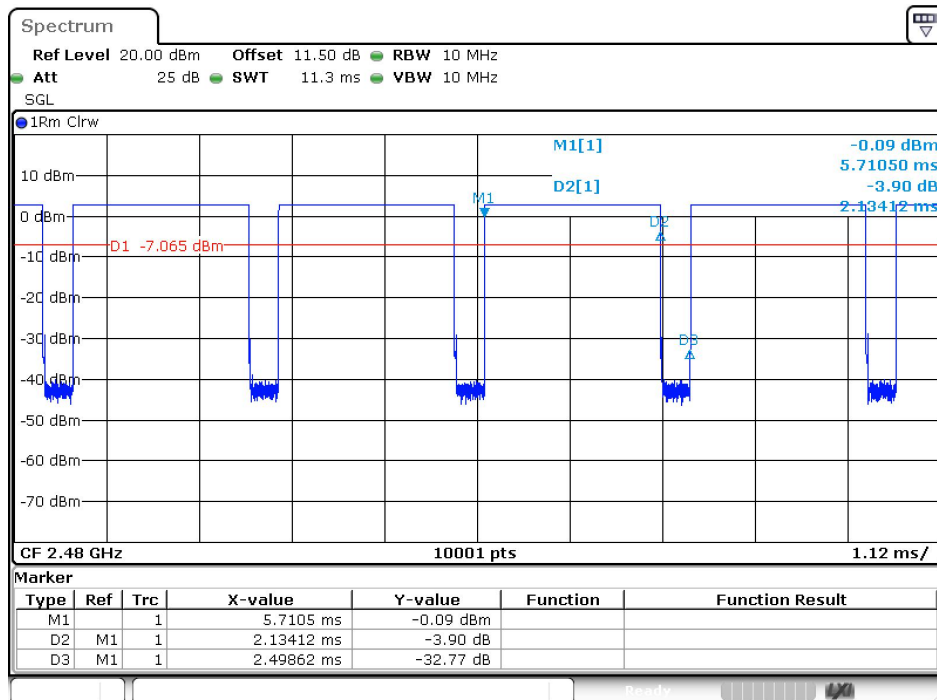
Test Graphs





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BLE 1M_Channel 19



Date: 15.OCT.2024 20:54:14

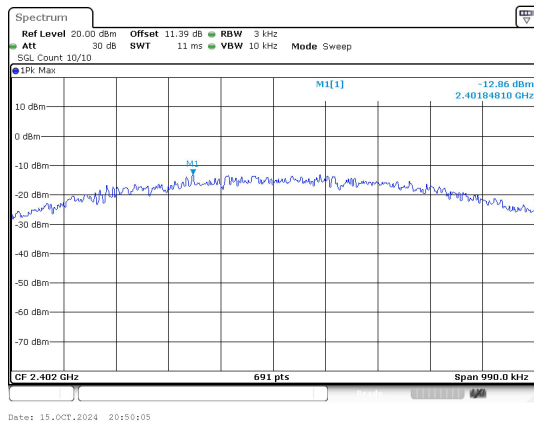
BLE 1M_Channel 39

2) Power Spectral Density

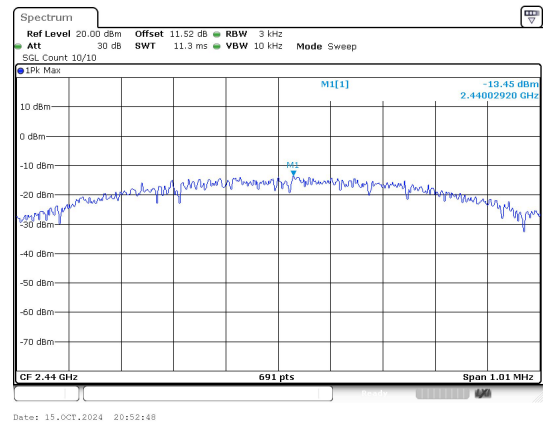
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-12.857	≤8	PASS
BLE 1M	19	-13.446	≤8	PASS
BLE 1M	39	-14.378	≤8	PASS

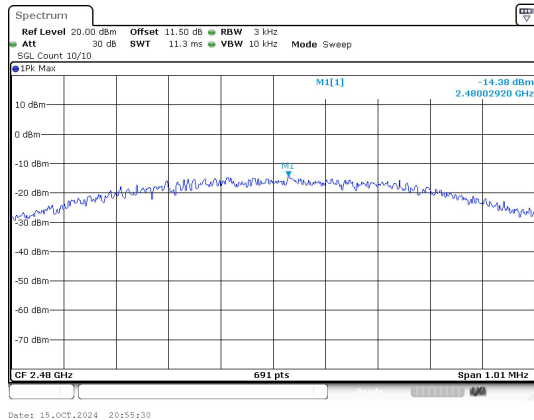
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



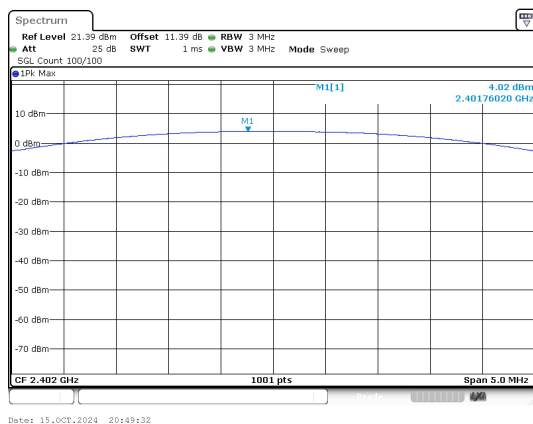
BLE 1M_Channel 39

3) Conducted Output Power

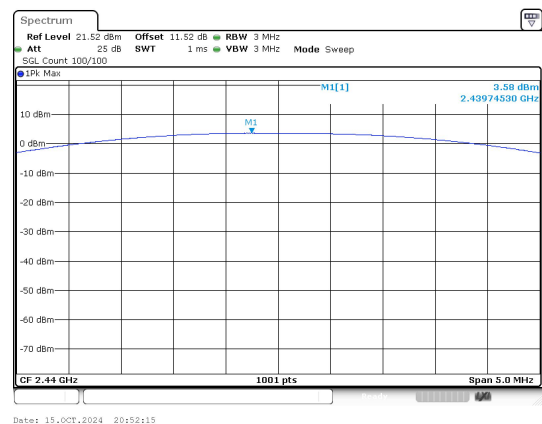
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	4.02	2.52	≤30	PASS
	19	3.58	2.28	≤30	PASS
	39	2.97	1.98	≤30	PASS

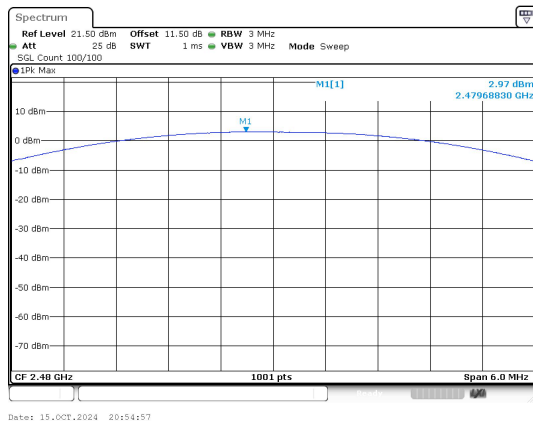
Test Graphs



Peak Output Power
BLE 1M_Channel 0



Peak Output Power
BLE 1M_Channel 19



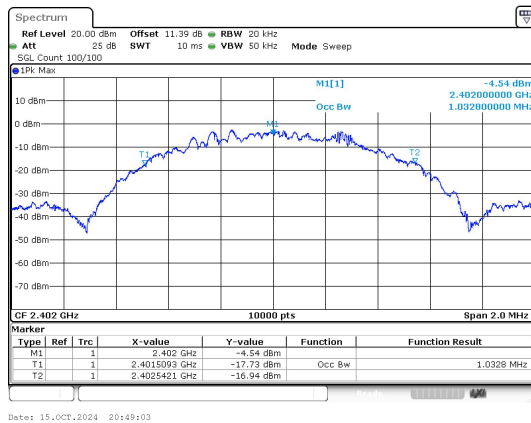
Peak Output Power
BLE 1M_Channel 39

4) 99% Bandwidth

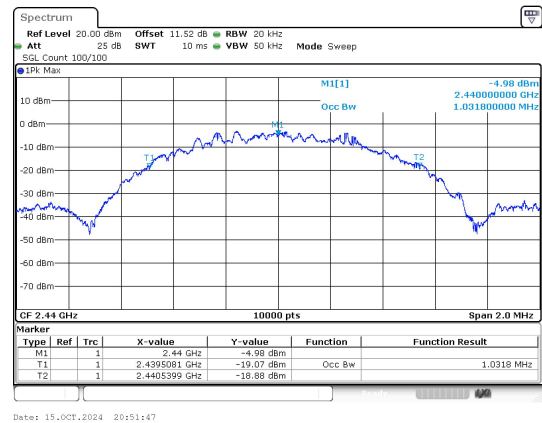
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0328
BLE 1M	19	2440	1.0318
BLE 1M	39	2480	1.0322

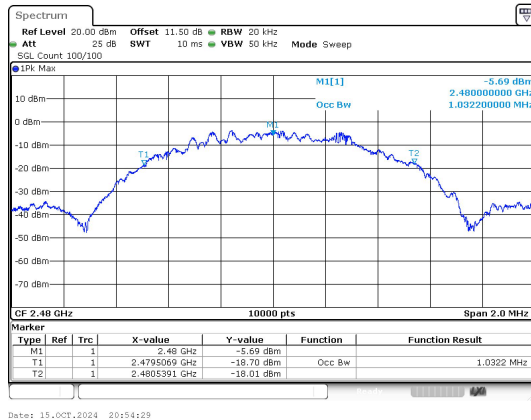
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



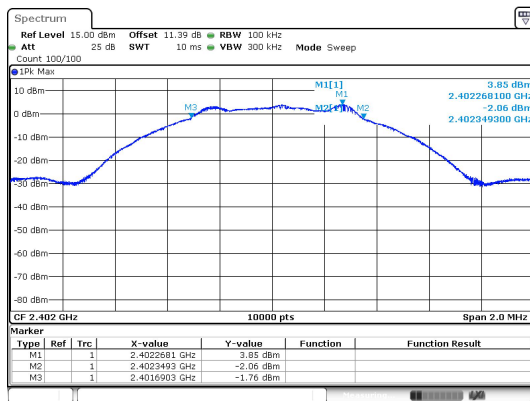
BLE 1M_Channel 39

5) 6dB Bandwidth

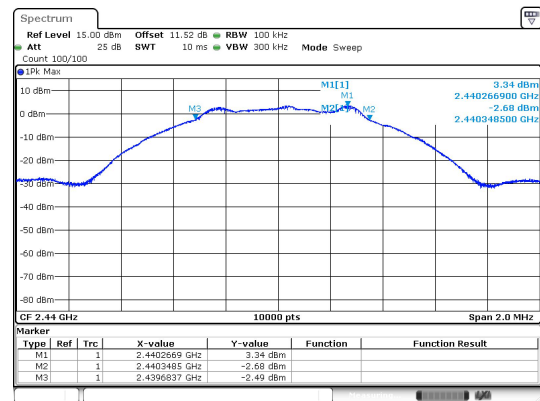
Test Result

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

Test Graphs



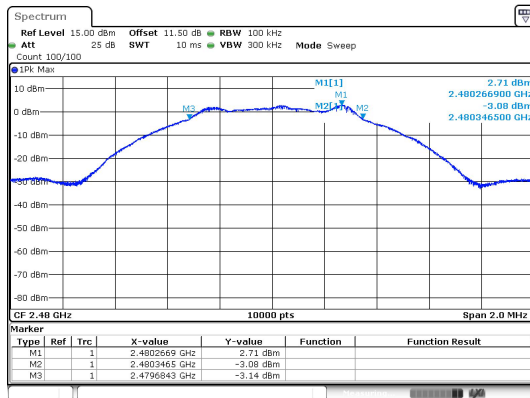
Date: 15.OCT.2024 20:49:19



Date: 15.OCT.2024 20:52:03

BLE 1M_Channel 0

BLE 1M_Channel 19



Date: 15.OCT.2024 20:54:45

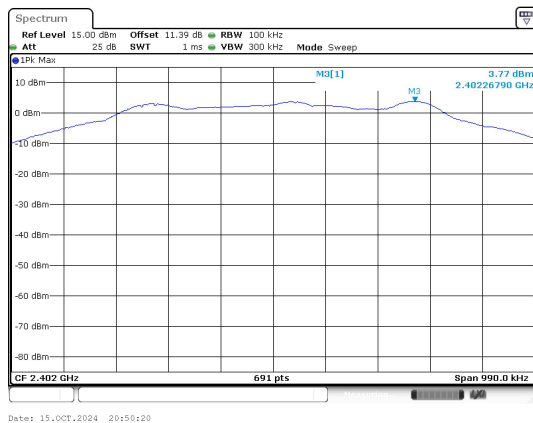
BLE 1M_Channel 39

6) Conducted Out Of Band Emission

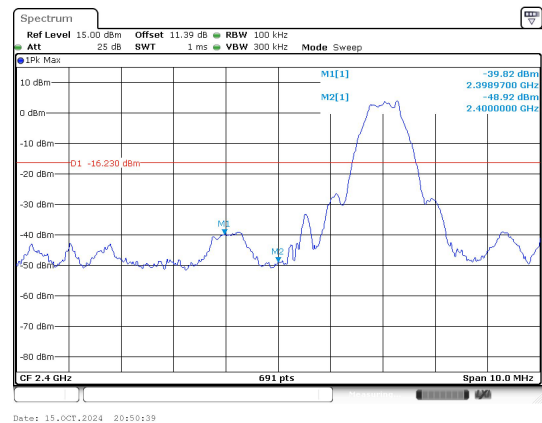
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.97	-39.825	-16.23	-23.595	PASS
		2400.00	-48.918	-16.23	-32.688	PASS
		7206.80	-36.652	-16.23	-20.422	PASS
	19	9753.73	-39.716	-16.7	-23.016	PASS
	39	2483.50	-45.440	-17.29	-28.150	PASS
		9914.37	-38.372	-17.29	-21.082	PASS

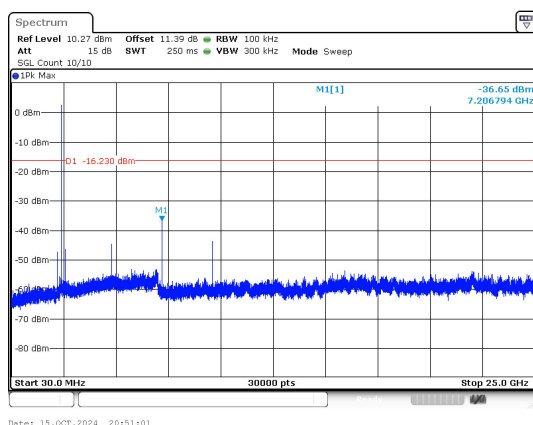
Test Graphs



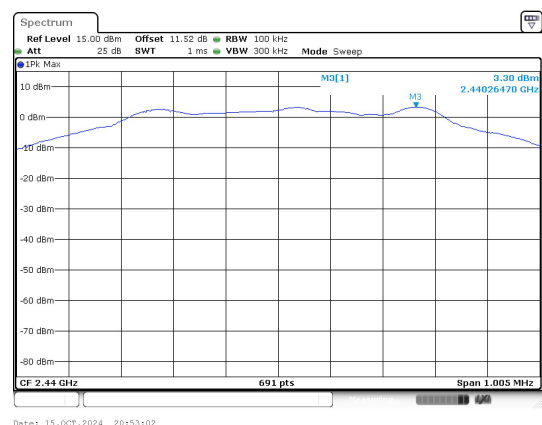
In-Band Reference Level
BLE 1M_Channel 0



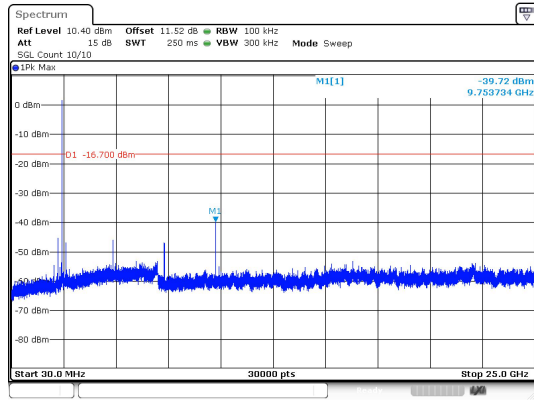
Out Of Band Emission
BLE 1M_Channel 0



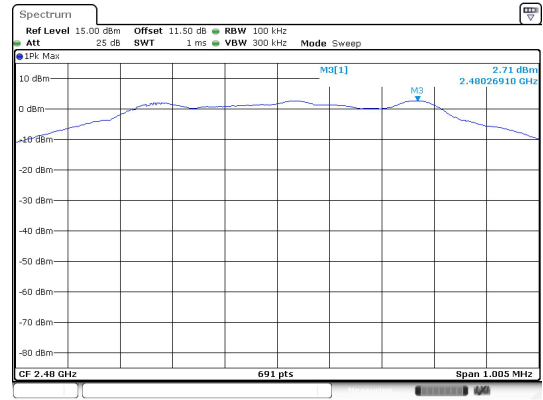
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



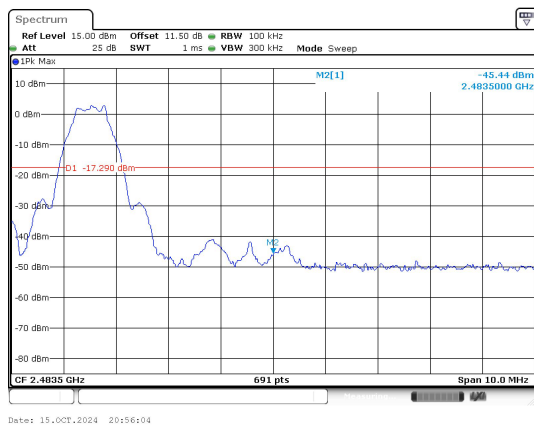
In-Band Reference Level
BLE 1M_Channel 19



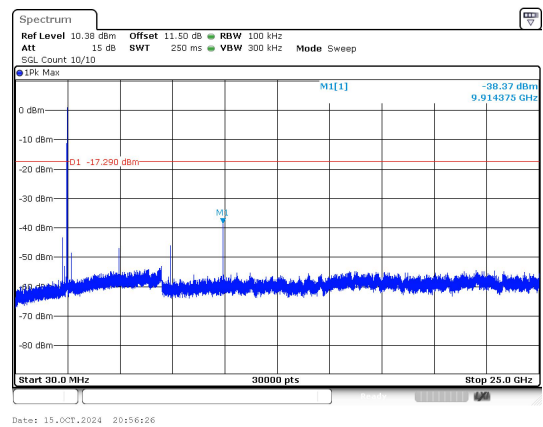
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



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