

Appendix

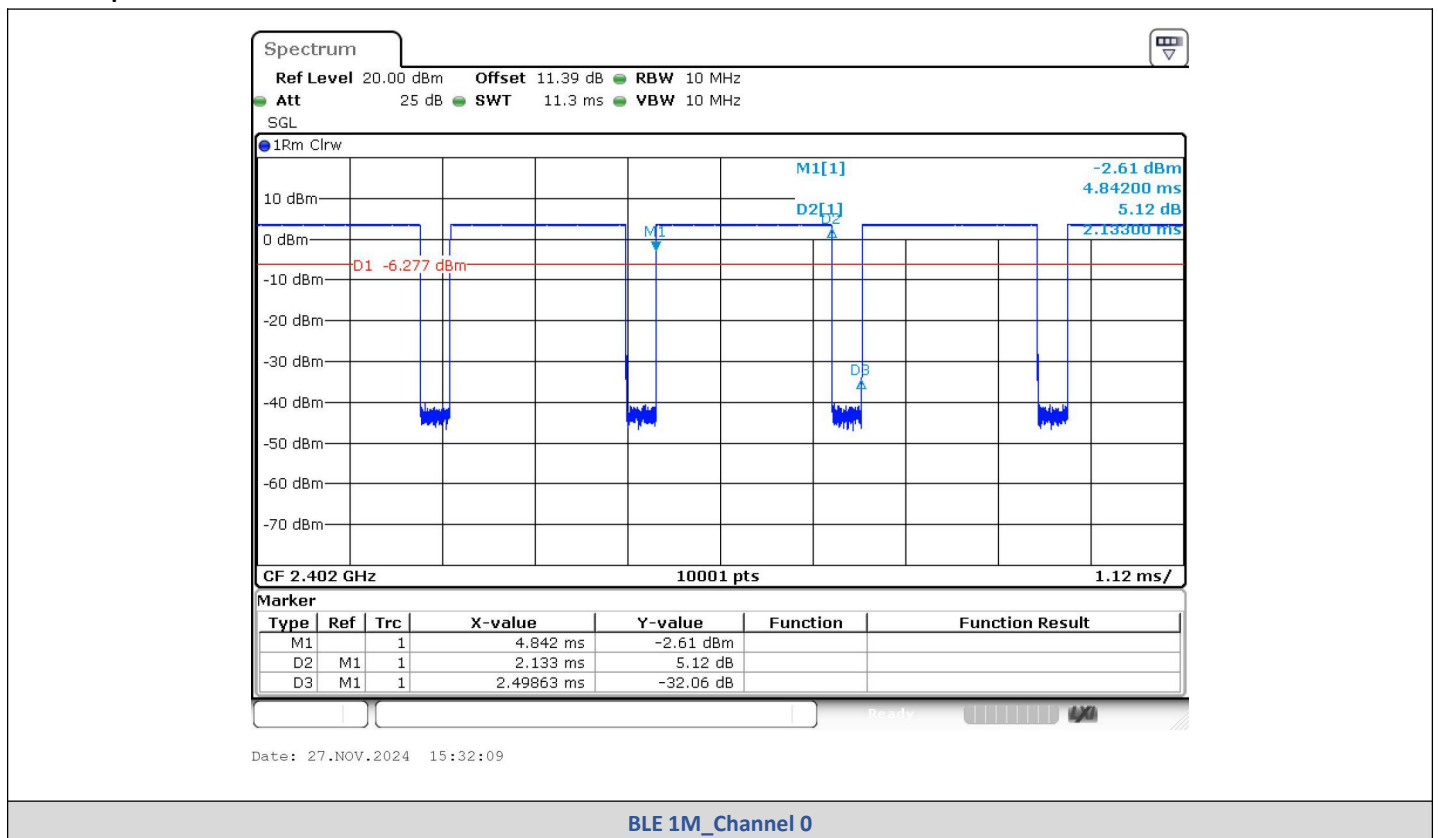
Report No.:	CISRR241123171
FCC ID:	2BME2-GX67-MAX
Product Name:	GX67 MAX A customized mechanical keyboard
Model No.:	GX67 MAX
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

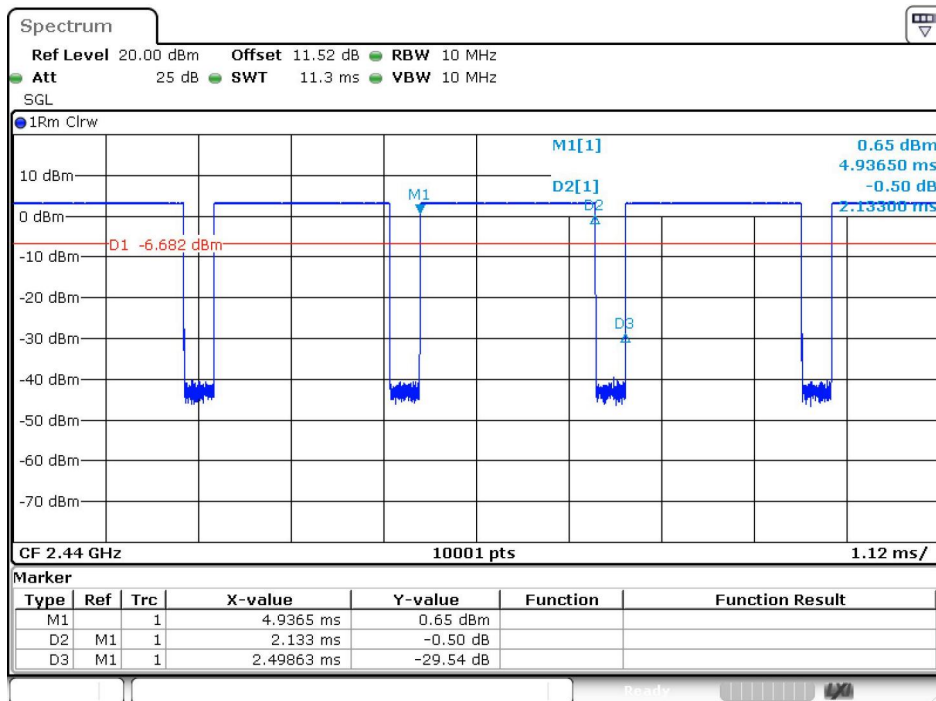
1) Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.133	2.499	85.37	0.8537	0.6869	0.4688
	19	2.133	2.499	85.37	0.8537	0.6869	0.4688
	39	2.133	2.499	85.37	0.8537	0.6869	0.4688
BLE 2M	0	1.081	2.499	43.27	0.4327	3.6381	0.9251
	19	1.081	2.499	43.27	0.4327	3.6381	0.9251
	39	1.081	2.499	43.27	0.4327	3.6381	0.9251

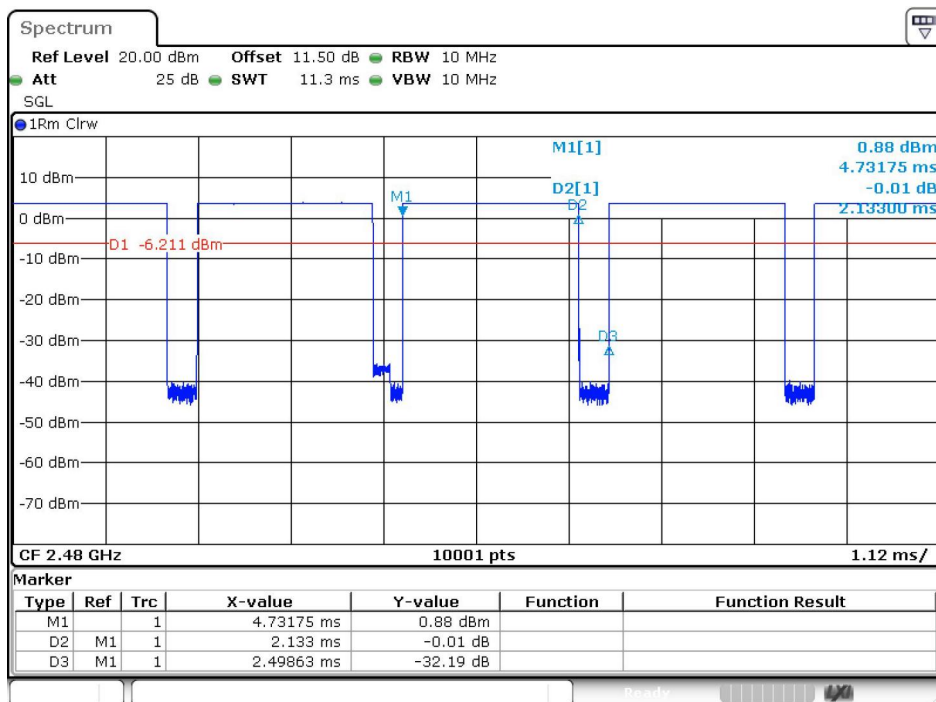
Test Graphs





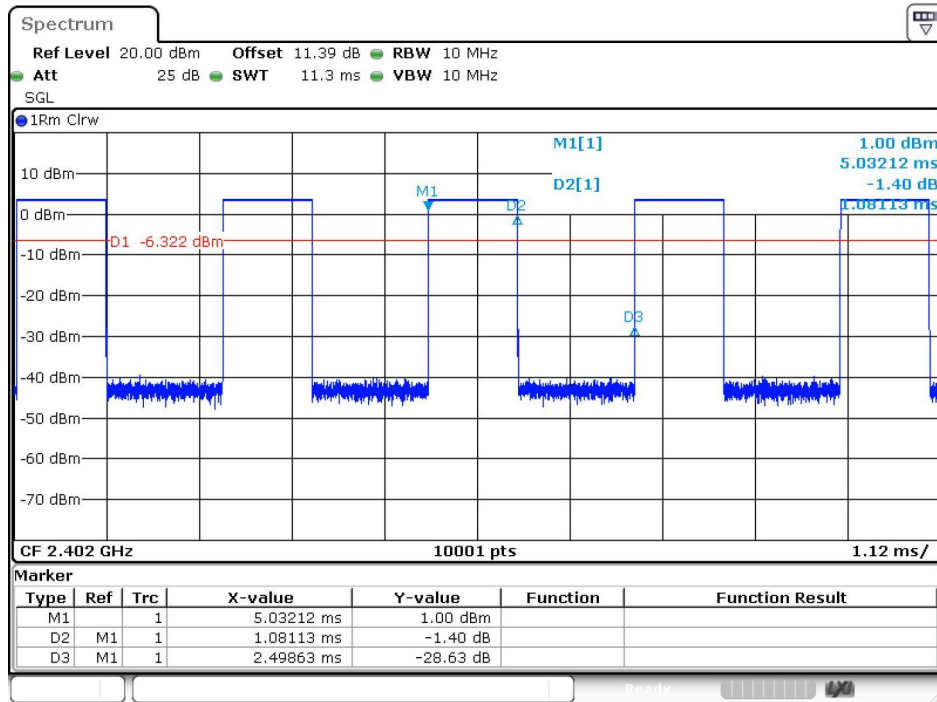
Date: 27.NOV.2024 15:35:41

BLE 1M_Channel 19



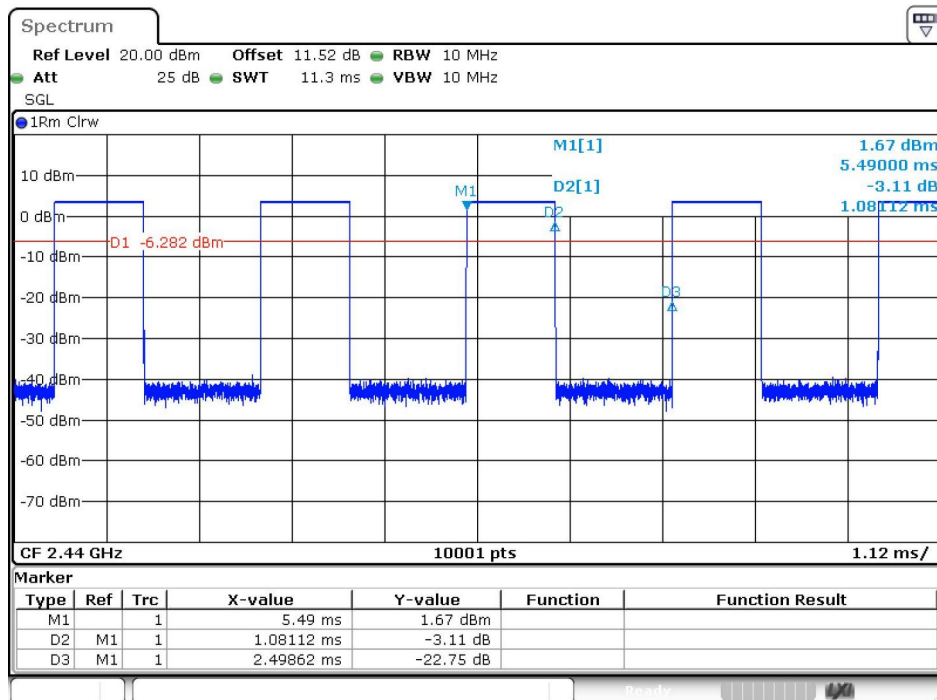
Date: 27.NOV.2024 15:38:08

BLE 1M_Channel 39



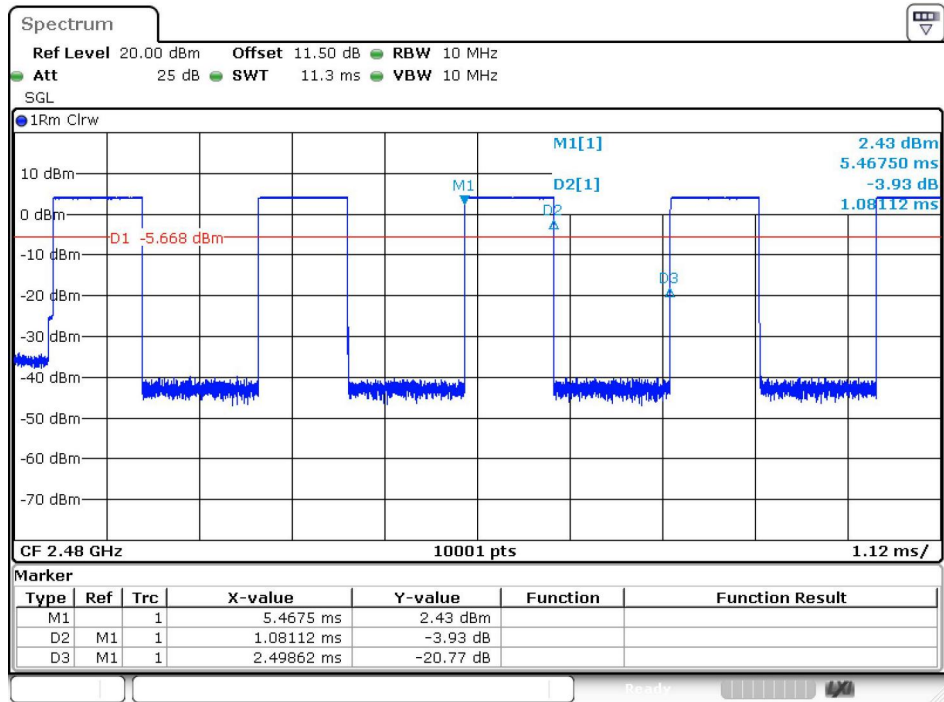
Date: 27.NOV.2024 15:40:45

BLE 2M_Channel 0



Date: 27.NOV.2024 15:43:18

BLE 2M_Channel 19



Date: 27.NOV.2024 15:45:31

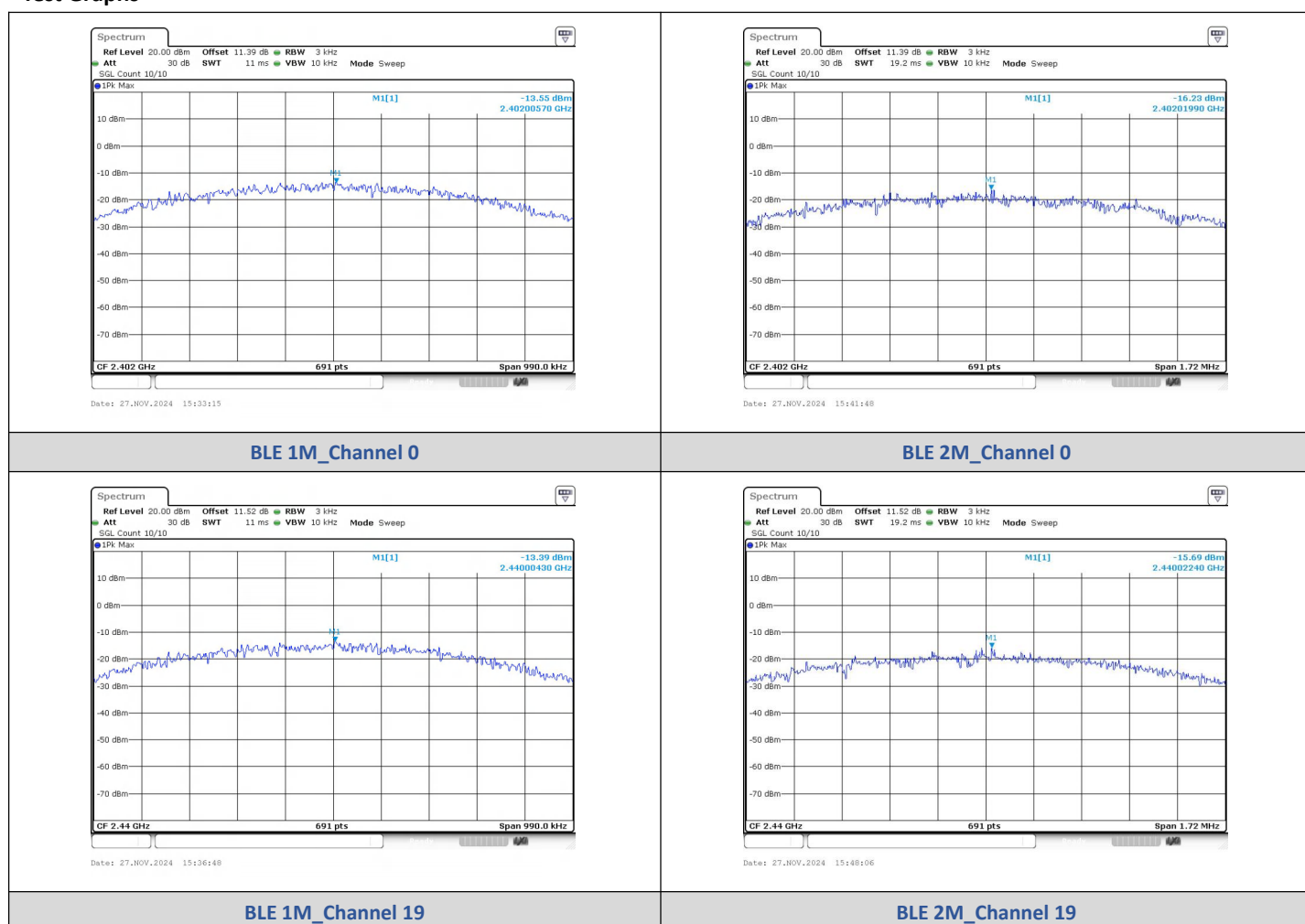
BLE 2M_Channel 39

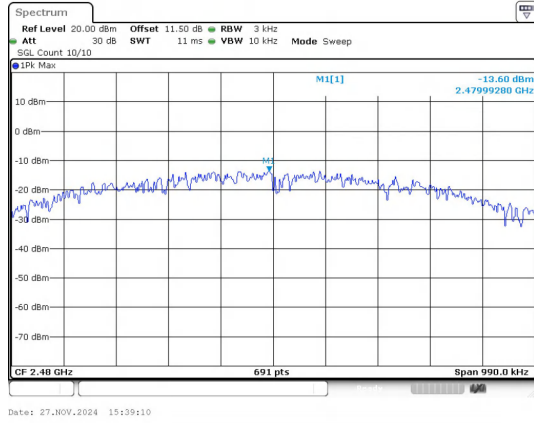
2) Power Spectral Density

Test Result

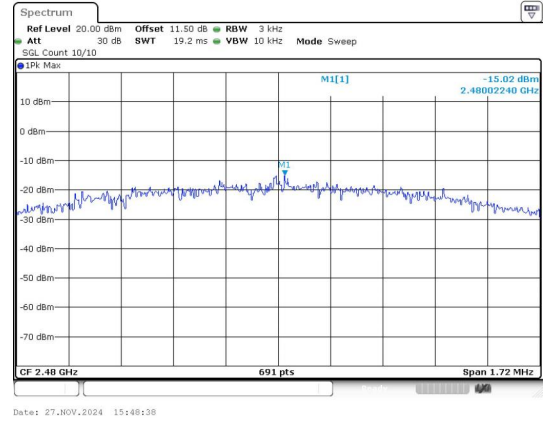
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-13.550	≤8	PASS
BLE 1M	19	-13.390	≤8	PASS
BLE 1M	39	-13.600	≤8	PASS
BLE 2M	0	-16.230	≤8	PASS
BLE 2M	19	-15.690	≤8	PASS
BLE 2M	39	-15.020	≤8	PASS

Test Graphs





BLE 1M_Channel 39



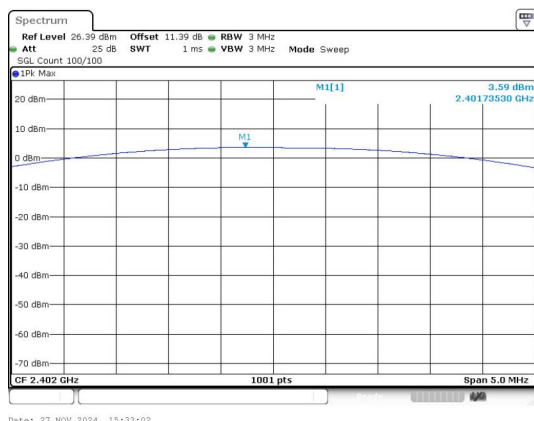
BLE 2M_Channel 39

3) Conducted Output Power

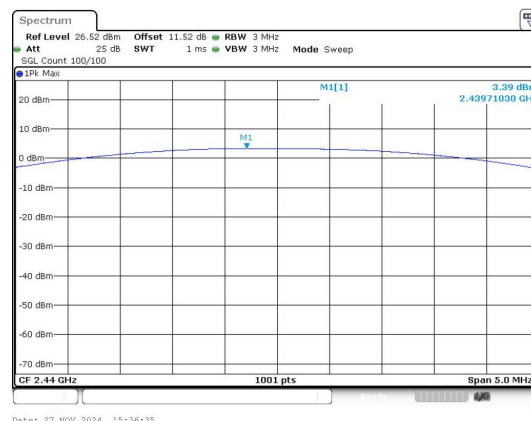
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	3.59	2.29	≤30	PASS
	19	3.39	2.18	≤30	PASS
	39	3.91	2.46	≤30	PASS
BLE 2M	0	3.81	2.4	≤30	PASS
	19	3.76	2.38	≤30	PASS
	39	4.30	2.69	≤30	PASS

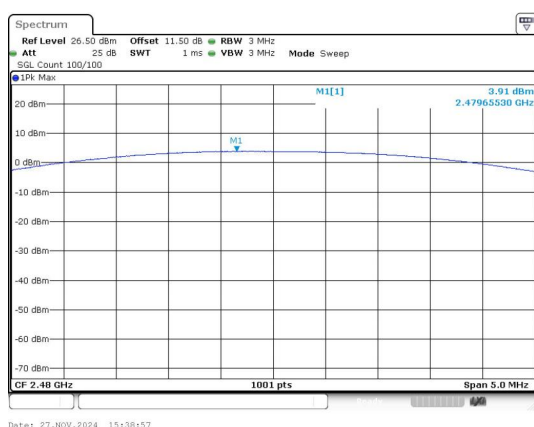
Test Graphs



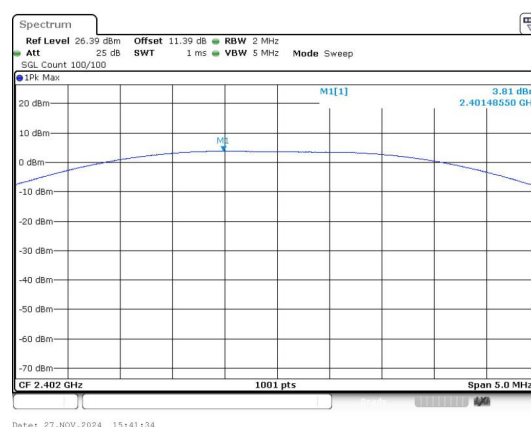
Peak Output Power
BLE 1M_Channel 0



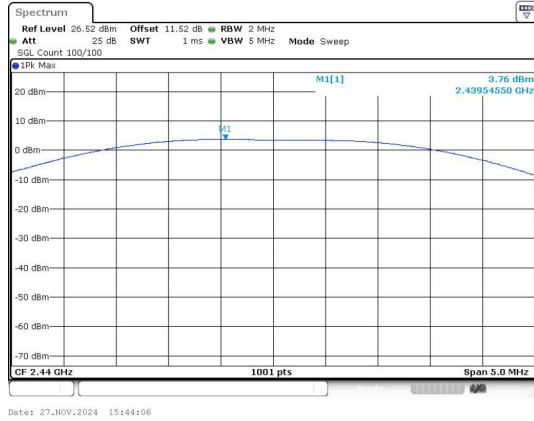
Peak Output Power
BLE 1M_Channel 19



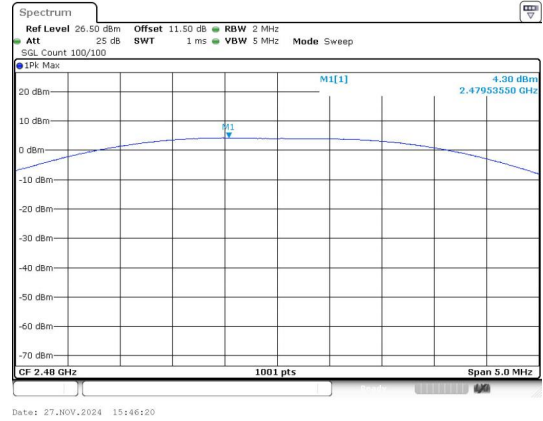
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



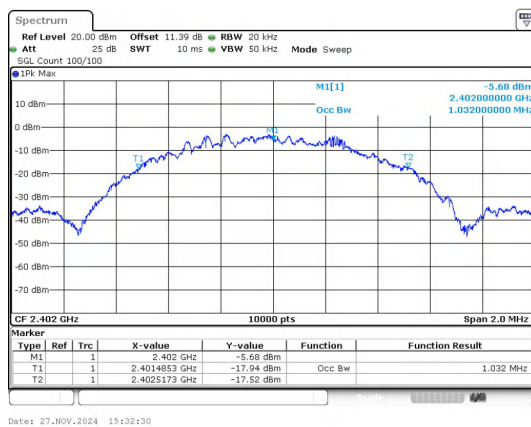
Peak Output Power
BLE 2M_Channel 39

4) 99% Bandwidth

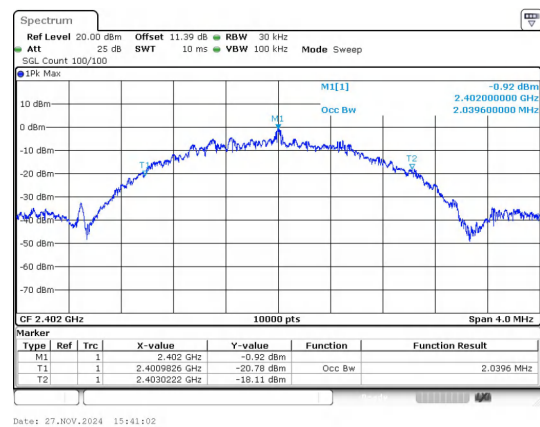
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0320
BLE 1M	19	2440	1.0318
BLE 1M	39	2480	1.0300
BLE 2M	0	2402	2.0396
BLE 2M	19	2440	2.0484
BLE 2M	39	2480	2.0536

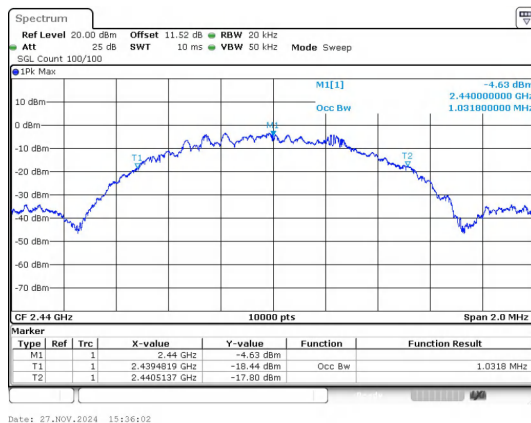
Test Graphs



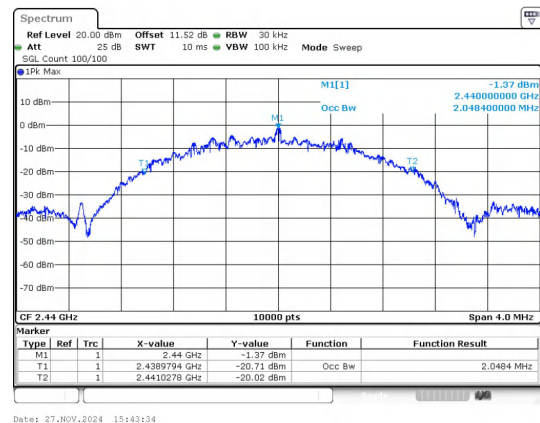
BLE 1M_Channel 0



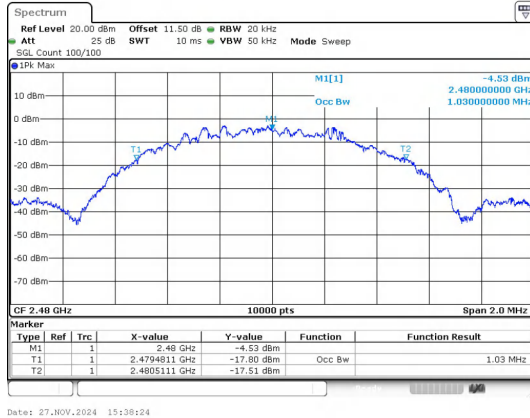
BLE 2M_Channel 0



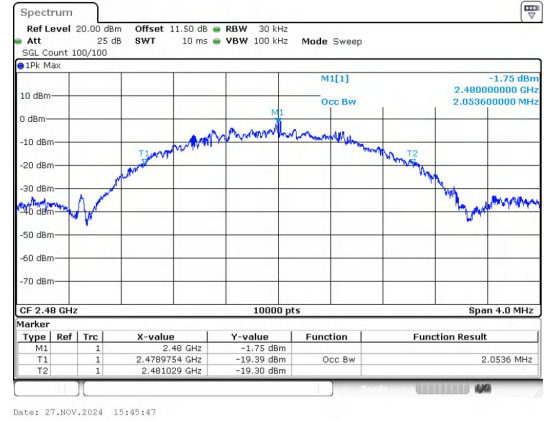
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



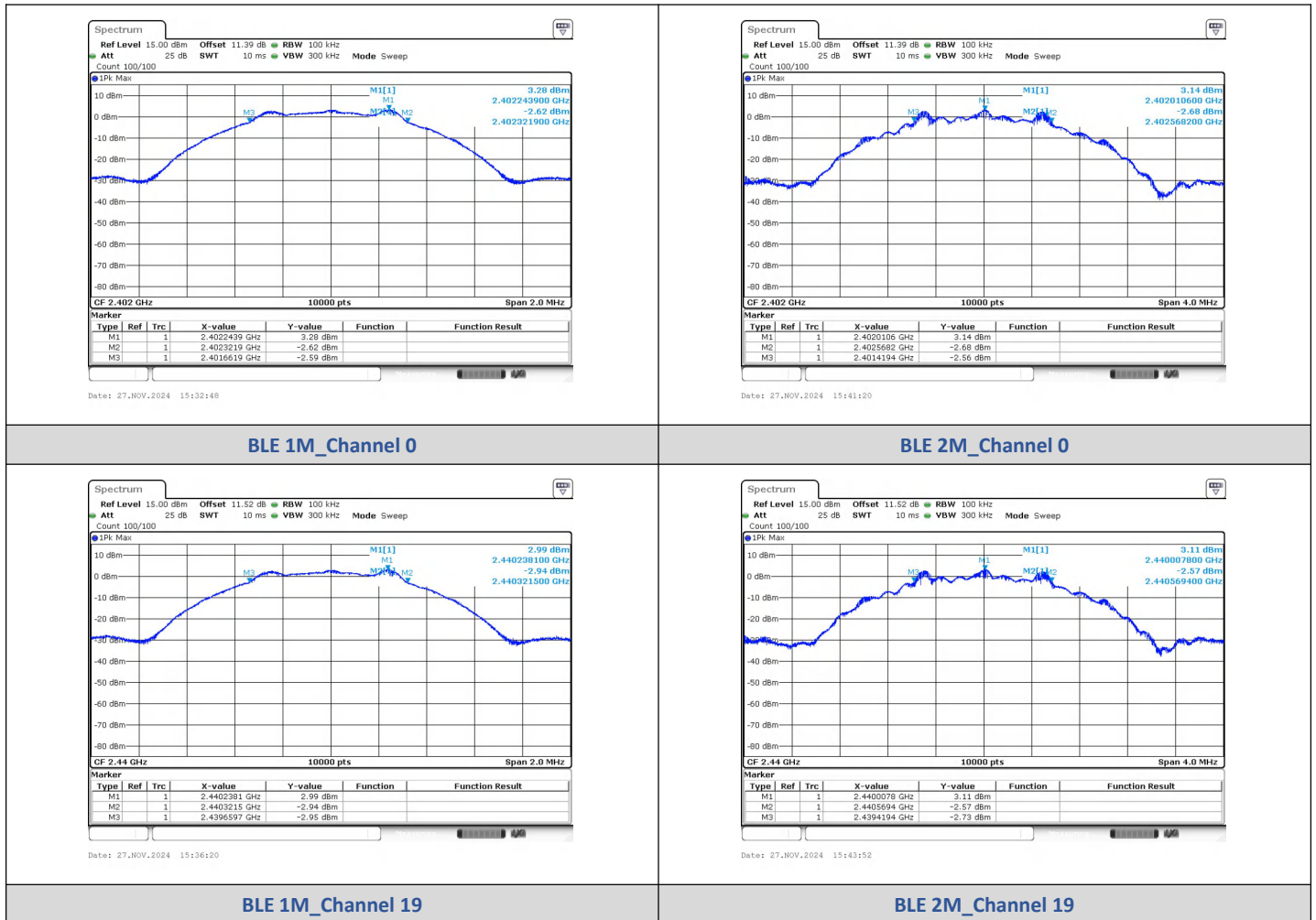
BLE 2M_Channel 39

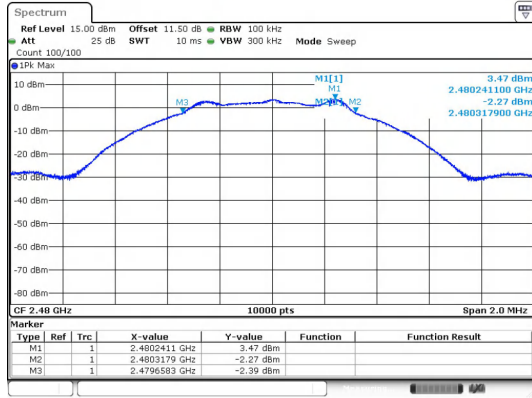
5) 6dB Bandwidth

Test Result

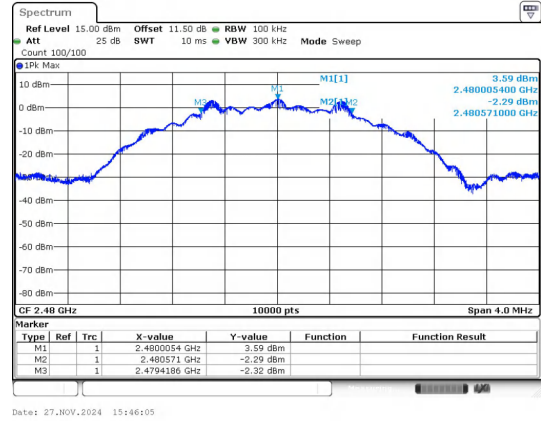
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.150		PASS
	39	2480	1.150		PASS

Test Graphs





BLE 1M_Channel 39



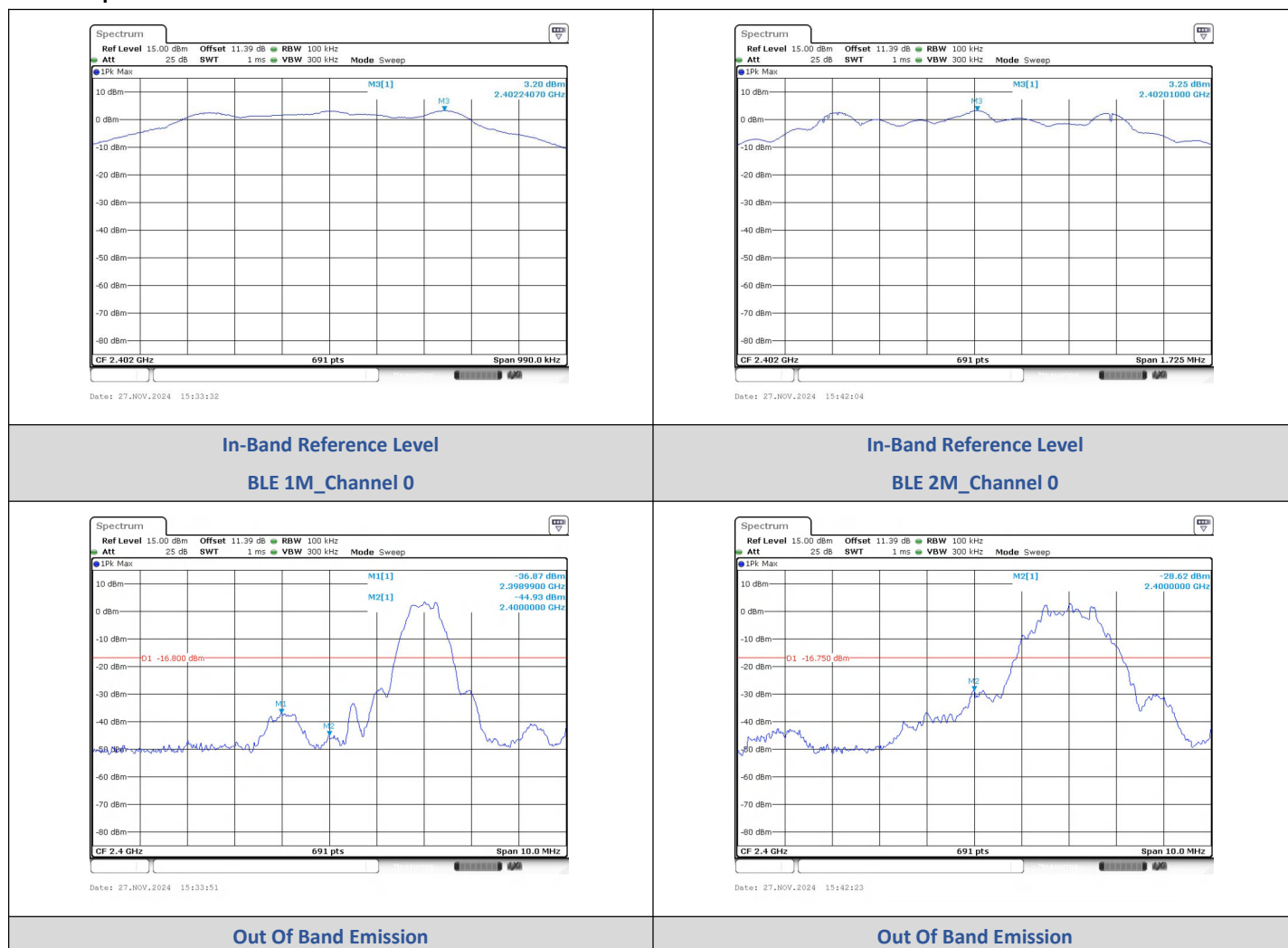
BLE 2M_Channel 39

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	2398.99	-36.874	-16.8	-20.074	PASS
		2400.00	-44.930	-16.8	-28.130	PASS
		5746.90	-41.822	-16.8	-25.022	PASS
	19	9753.73	-41.698	-16.99	-24.708	PASS
		2483.50	-41.980	-16.53	-25.450	PASS
		9914.37	-41.505	-16.53	-24.975	PASS
BLE 2M	0	2400.00	-28.620	-16.75	-11.870	PASS
		9602.25	-43.560	-16.75	-26.810	PASS
	19	9753.73	-42.085	-16.82	-25.265	PASS
		2483.50	-48.320	-16.39	-31.930	PASS
	39	9914.37	-41.728	-16.39	-25.338	PASS

Test Graphs





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

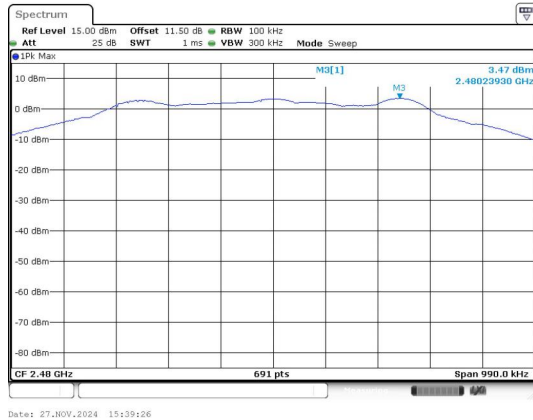
BLE 2M_Channel 19



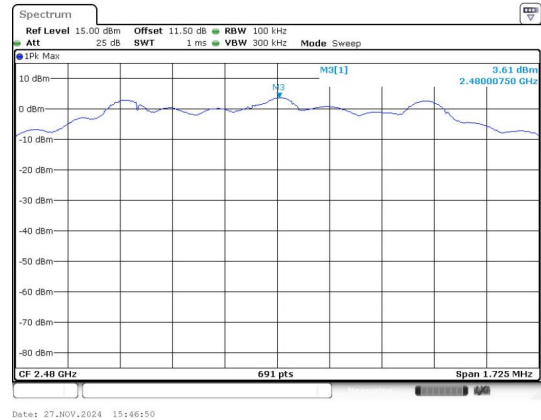
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 19

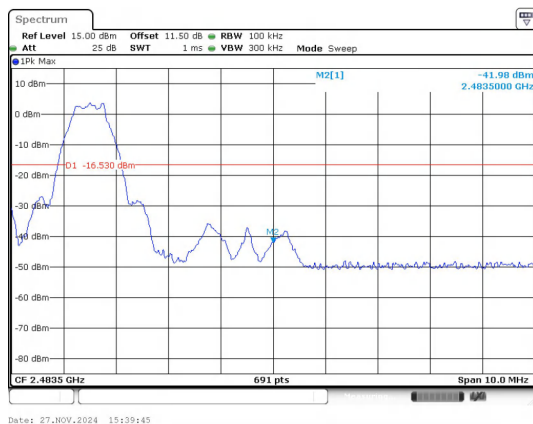
BLE 2M_Channel 19



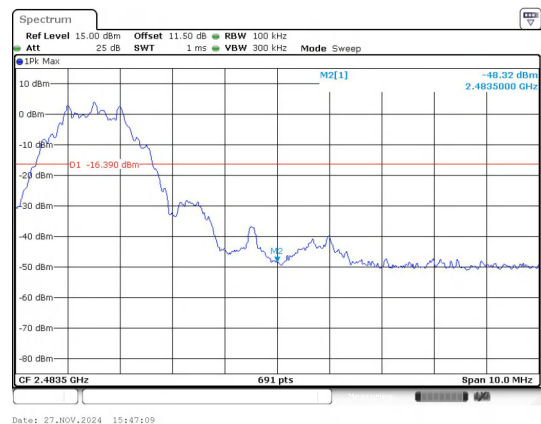
In-Band Reference Level
BLE 1M_Channel 39



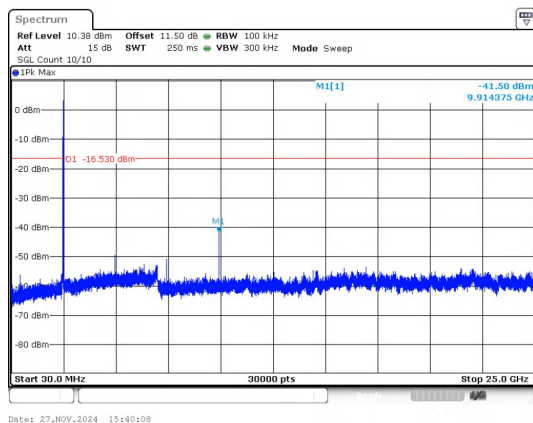
In-Band Reference Level
BLE 2M_Channel 39



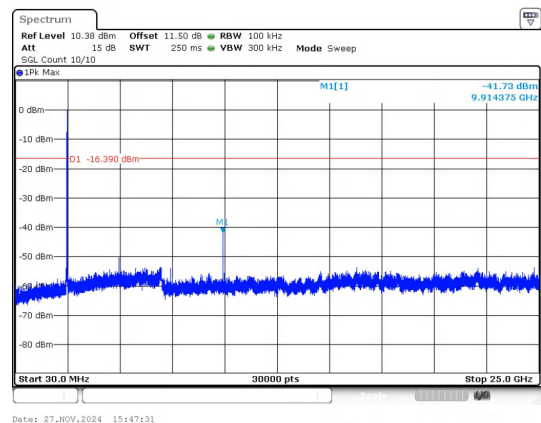
Out Of Band Emission
BLE 1M_Channel 39



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

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