

Appendix

Report No.:	CISRR241115092
FCC ID:	2BGU9-YW16
Product Name:	wireless headphone
Model No.:	YW16
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

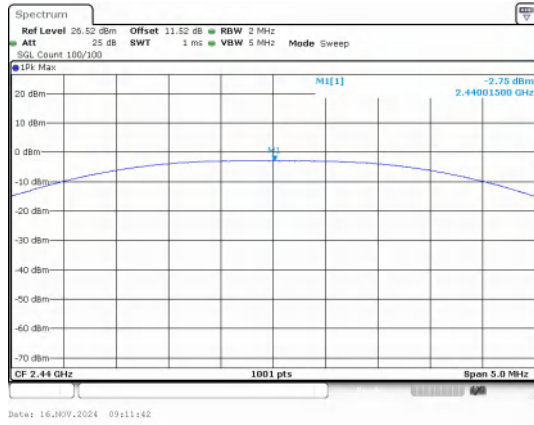
1) Conducted Output Power

Test Result

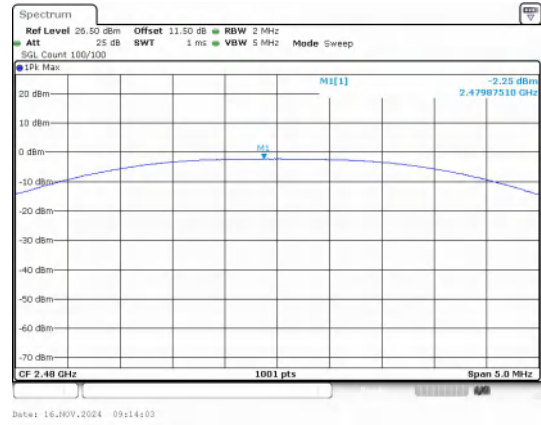
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-2.88	0.52	≤30	PASS
	19	-2.82	0.52	≤30	PASS
	39	-2.21	0.6	≤30	PASS
BLE 2M	0	-2.89	0.51	≤30	PASS
	19	-2.75	0.53	≤30	PASS
	39	-2.25	0.6	≤30	PASS

Test Graphs





Peak Output Power
BLE 2M_Channel 19



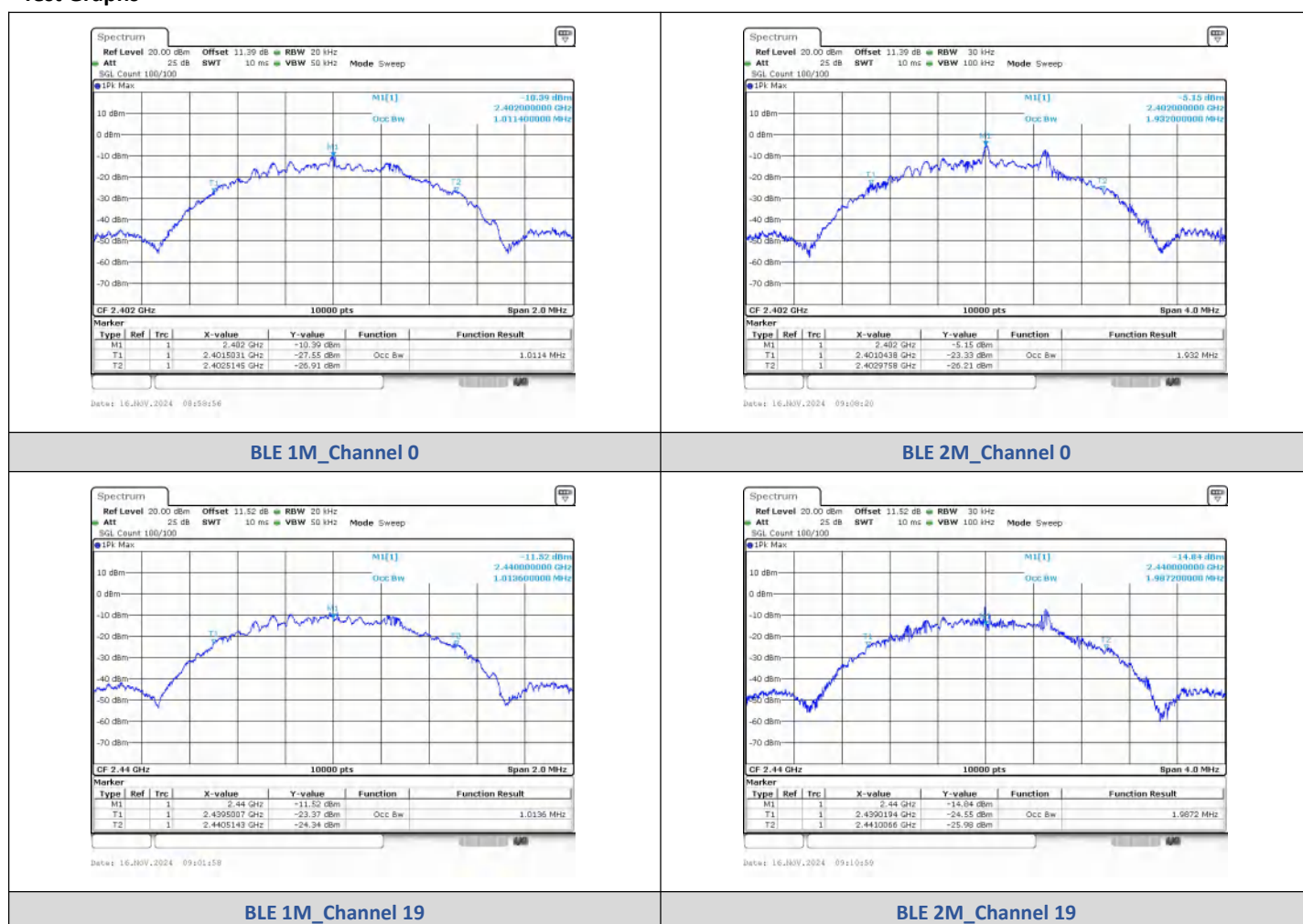
Peak Output Power
BLE 2M_Channel 39

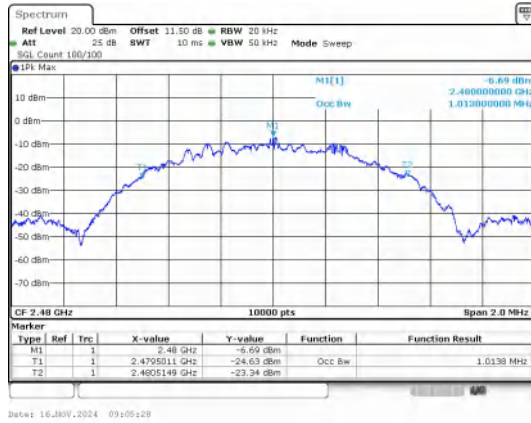
2) 99% Bandwidth

Test Result

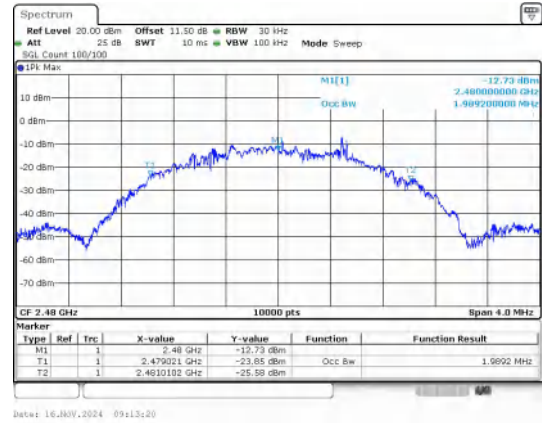
Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0114
BLE 1M	19	2440	1.0136
BLE 1M	39	2480	1.0138
BLE 2M	0	2402	1.9320
BLE 2M	19	2440	1.9872
BLE 2M	39	2480	1.9892

Test Graphs





BLE 1M_Channel 39



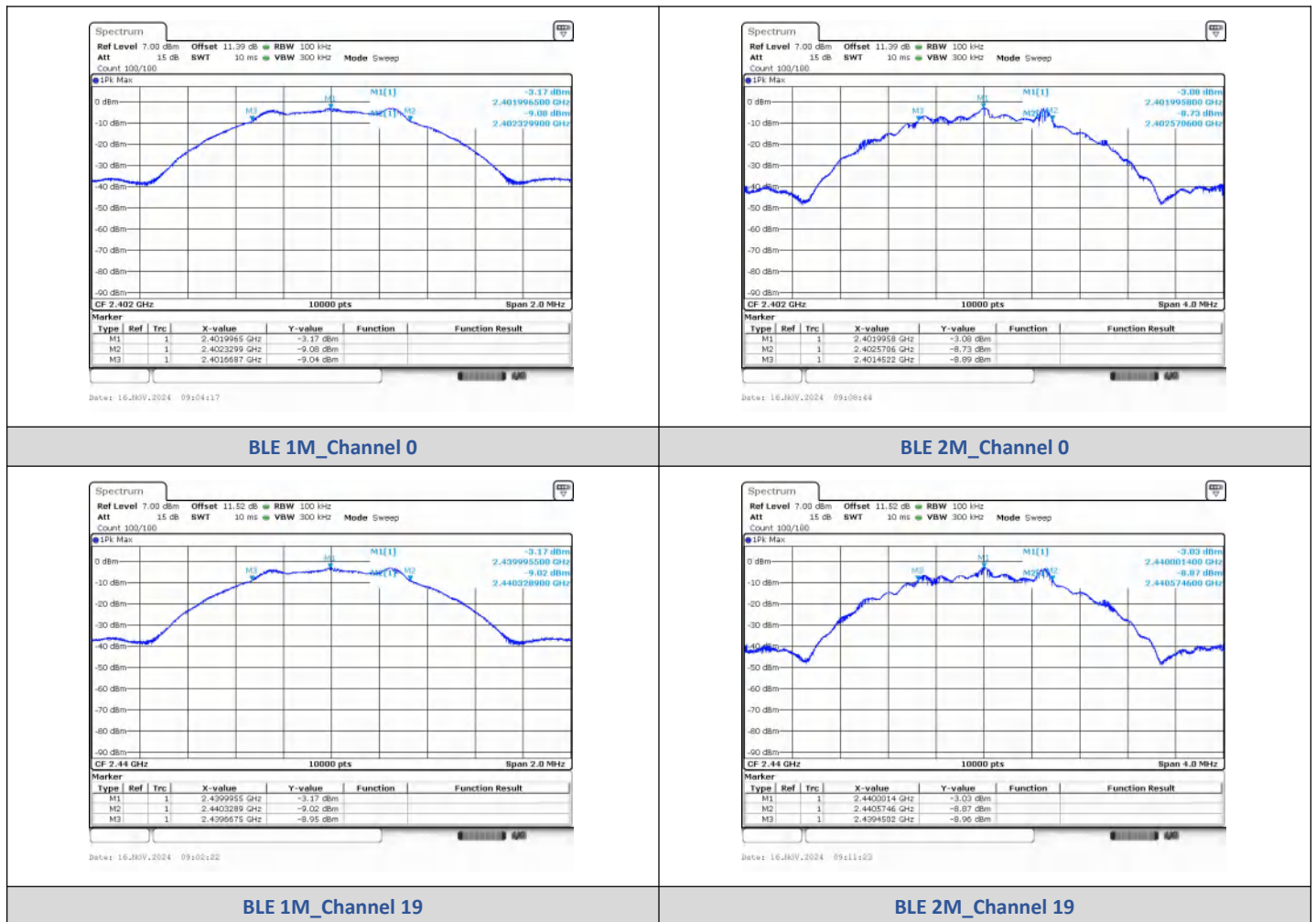
BLE 2M_Channel 39

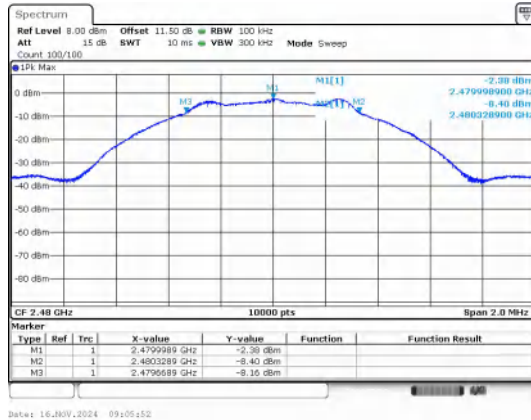
3) 6dB Bandwidth

Test Result

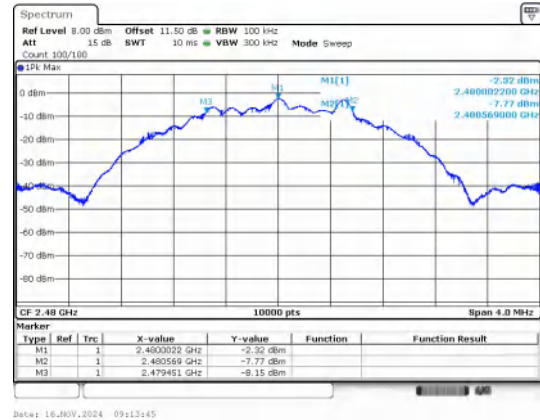
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.120		PASS
	19	2440	1.120		PASS
	39	2480	1.120		PASS

Test Graphs





BLE 1M_Channel 39



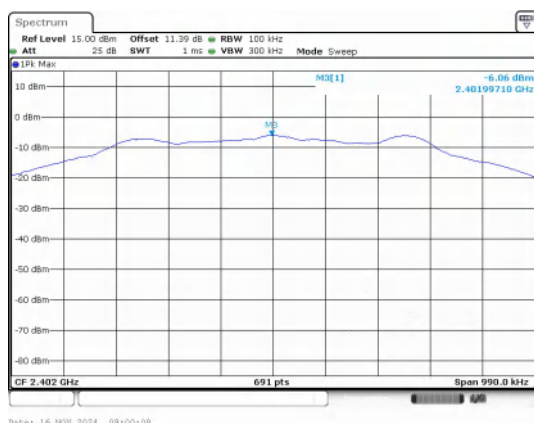
BLE 2M_Channel 39

4) Conducted Out Of Band Emission

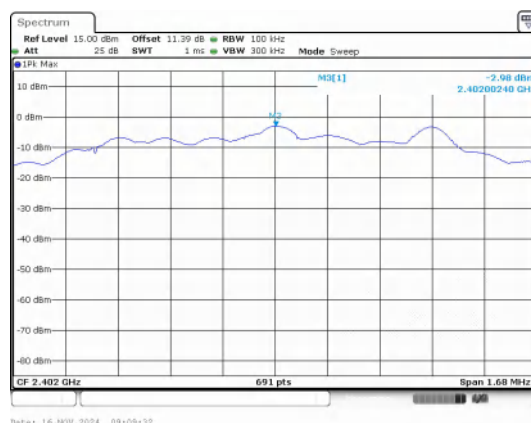
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-47.840	-26.06	-21.780	PASS
		6937.95	-52.866	-26.06	-26.806	PASS
	19	4880.42	-49.017	-23.02	-25.997	PASS
		2483.50	-51.200	-22.39	-28.810	PASS
		4959.49	-52.738	-22.39	-30.348	PASS
BLE 2M	0	2400.00	-40.490	-22.98	-17.510	PASS
		4804.68	-53.033	-22.98	-30.053	PASS
	19	6947.11	-53.461	-22.9	-30.561	PASS
		2483.50	-48.270	-22.32	-25.950	PASS
		4961.16	-51.996	-22.32	-29.676	PASS

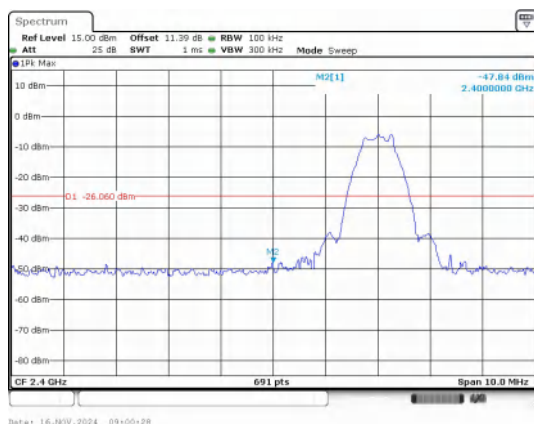
Test Graphs



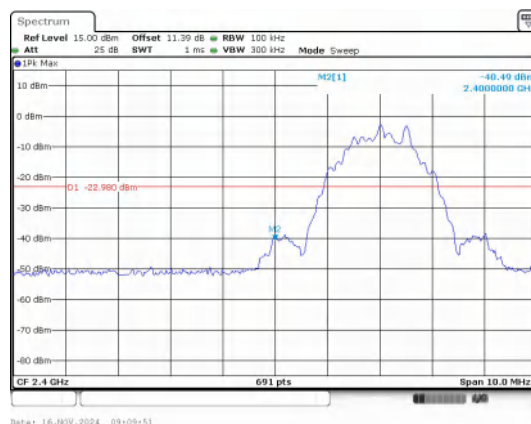
In-Band Reference Level
BLE 1M_Channel 0



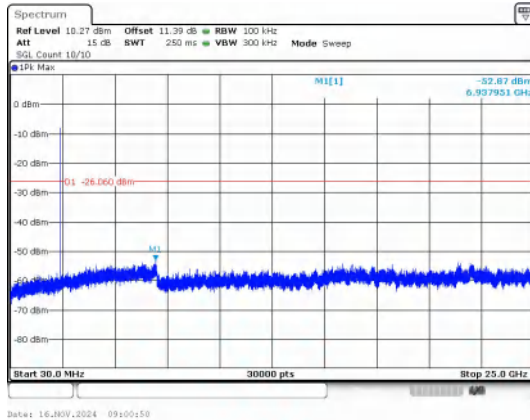
In-Band Reference Level
BLE 2M_Channel 0



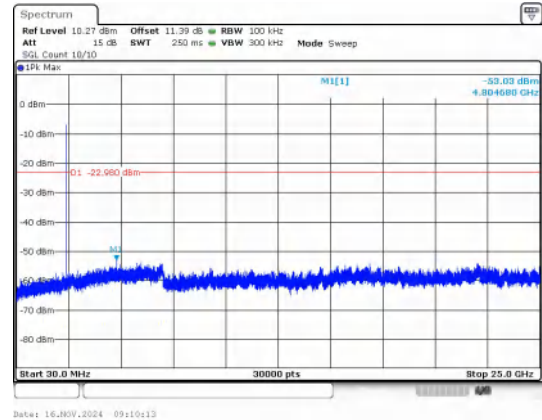
Out Of Band Emission
BLE 1M_Channel 0



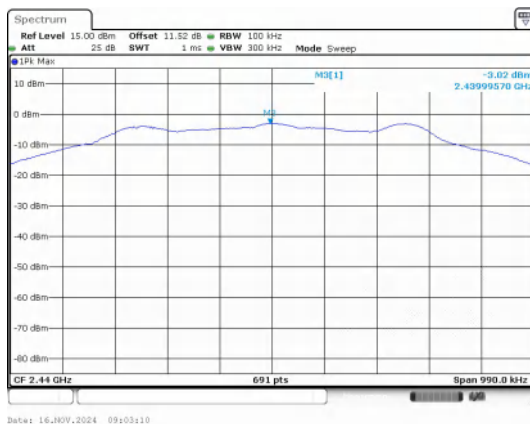
Out Of Band Emission
BLE 2M_Channel 0



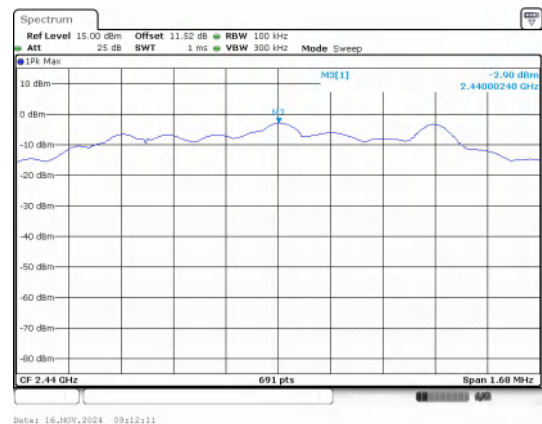
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



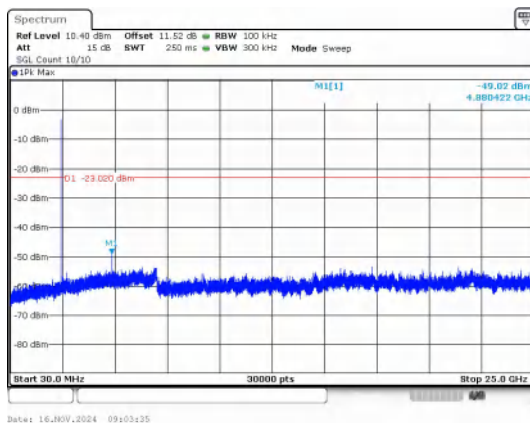
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



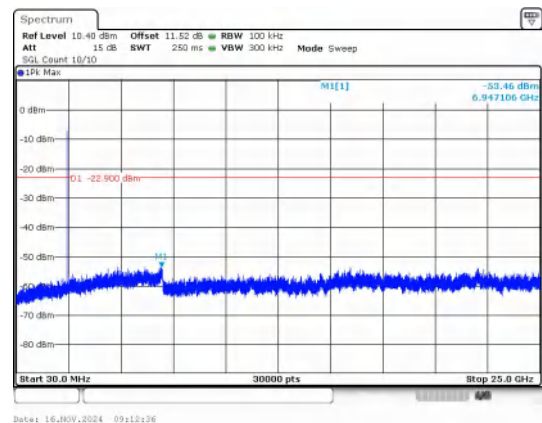
In-Band Reference Level
BLE 1M_Channel 19



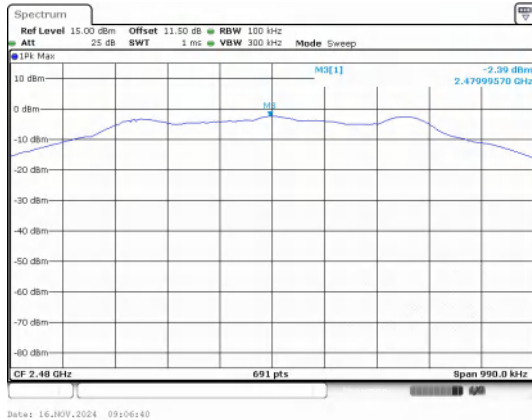
In-Band Reference Level
BLE 2M_Channel 19



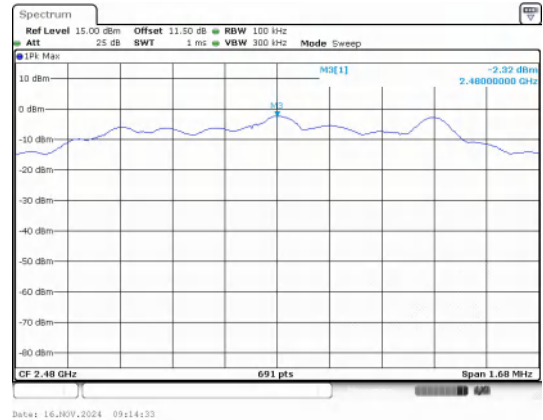
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



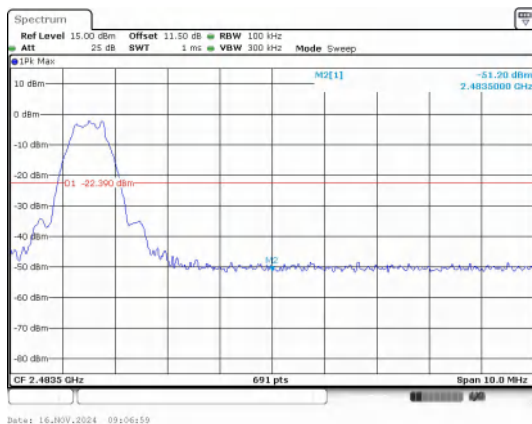
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



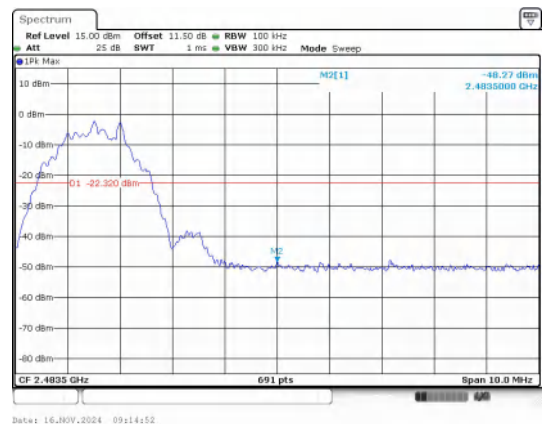
In-Band Reference Level
BLE 1M_Channel 39



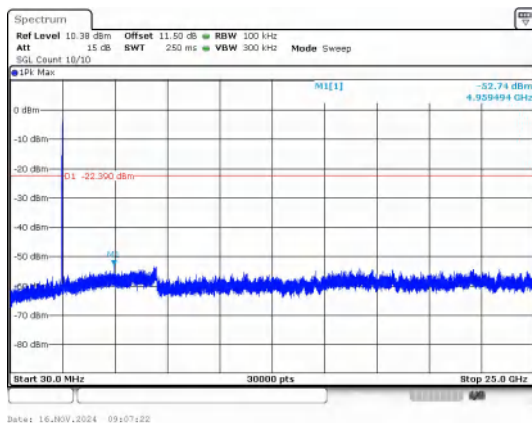
In-Band Reference Level
BLE 2M_Channel 39



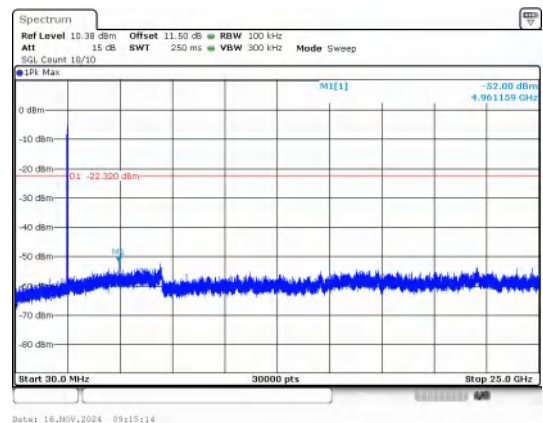
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



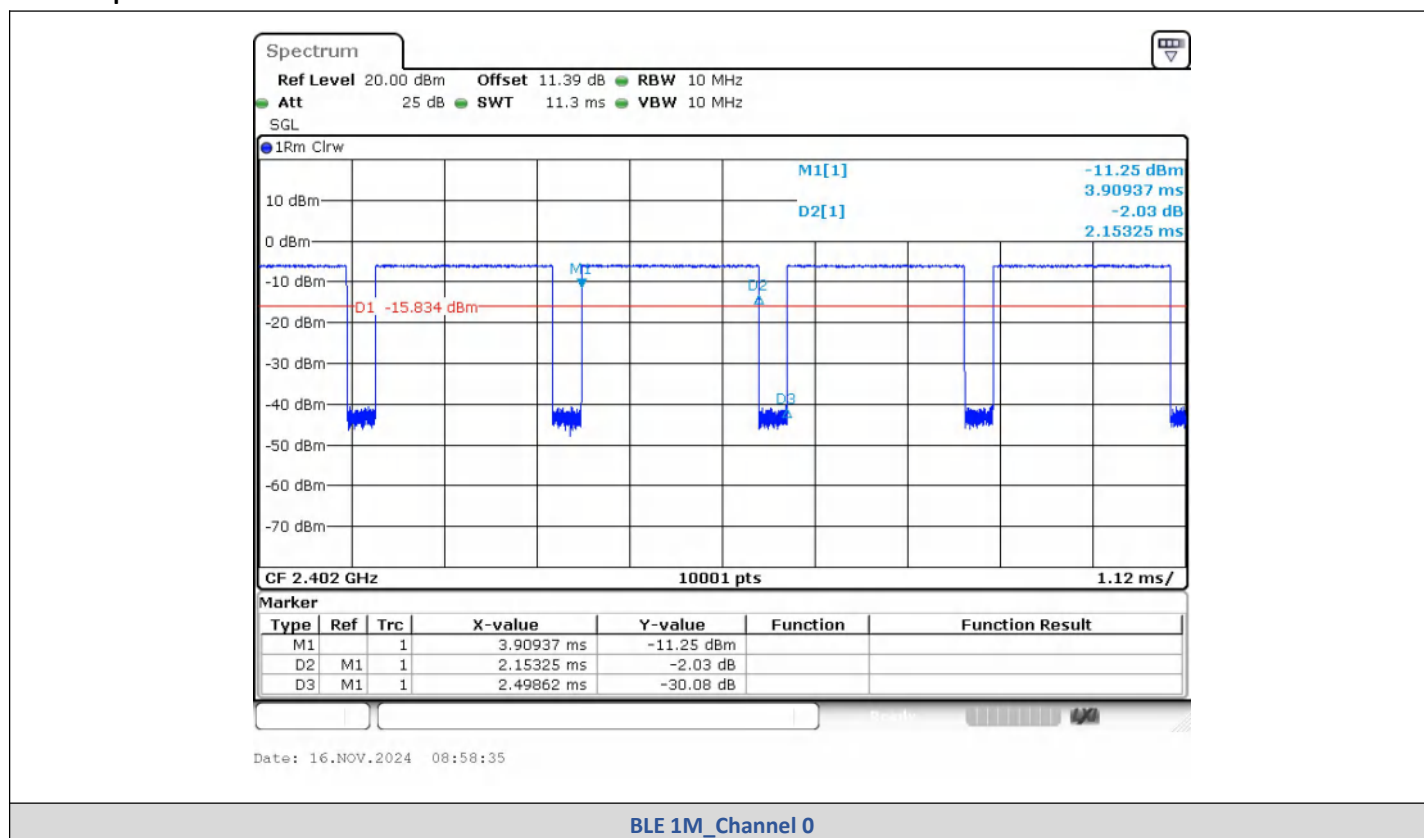
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39

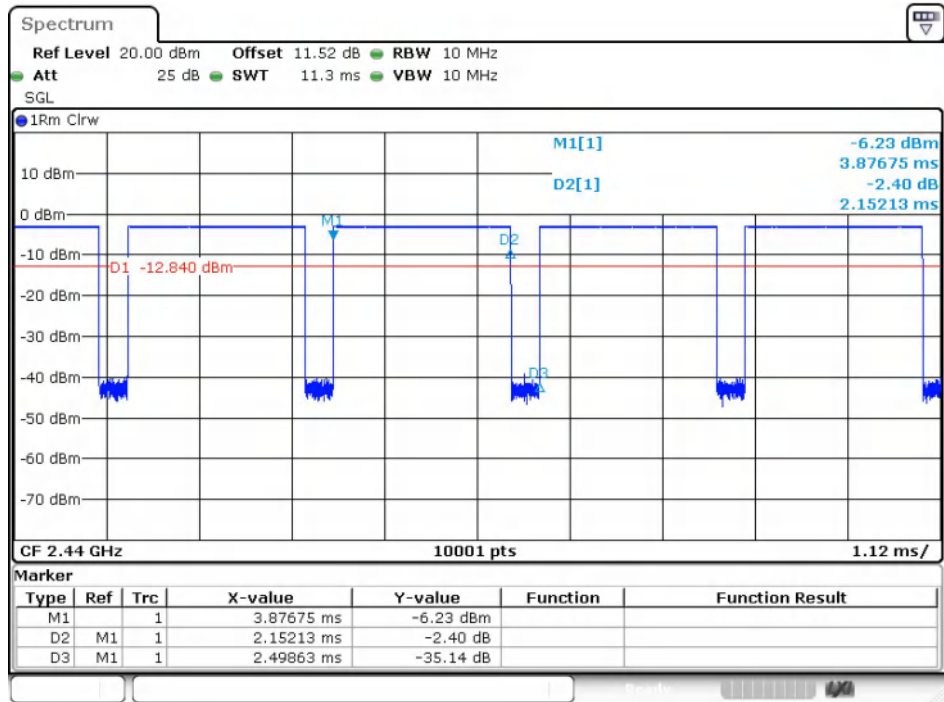
5) Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.153	2.499	86.18	0.8618	0.6459	0.4645
	19	2.152	2.499	86.13	0.8613	0.6485	0.4647
	39	2.153	2.499	86.18	0.8618	0.6459	0.4645
BLE 2M	0	1.097	1.874	58.54	0.5854	2.3255	0.9116
	19	1.098	1.874	58.58	0.5858	2.3225	0.9107
	39	1.097	1.874	58.54	0.5854	2.3255	0.9116

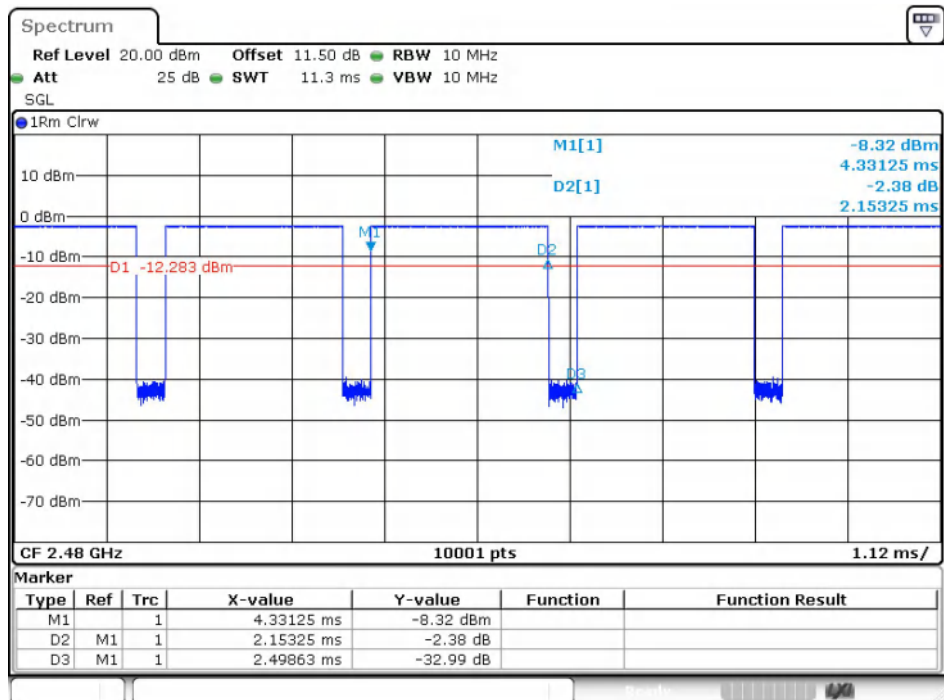
Test Graphs





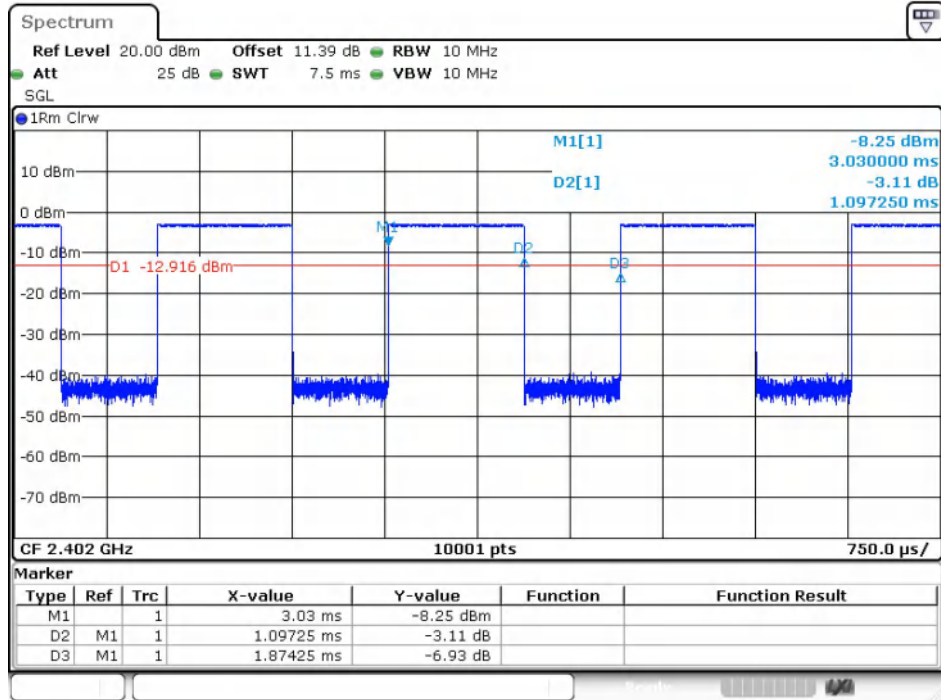
Date: 16.NOV.2024 09:01:37

BLE 1M_Channel 19



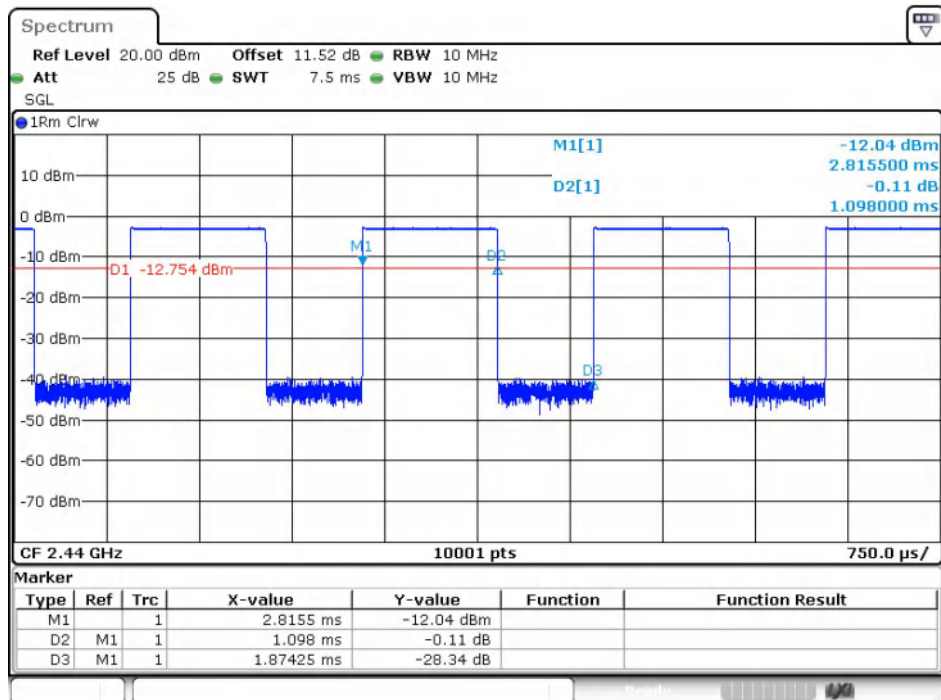
Date: 16.NOV.2024 09:05:11

BLE 1M_Channel 39



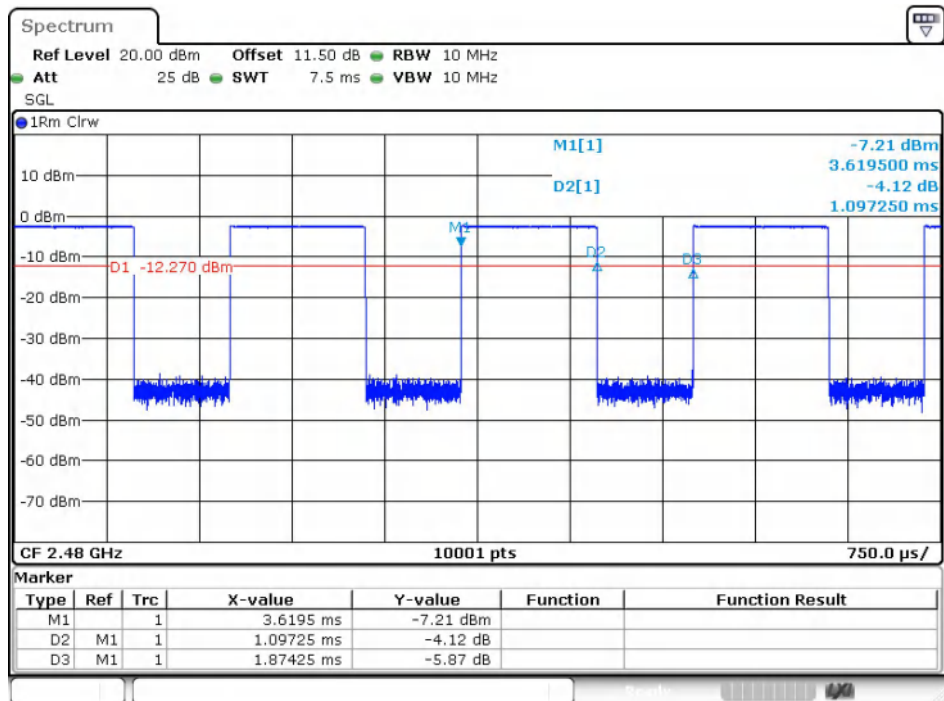
Date: 16.NOV.2024 09:08:03

BLE 2M_Channel 0



Date: 16.NOV.2024 09:10:42

BLE 2M_Channel 19



Date: 16.NOV.2024 09:13:04

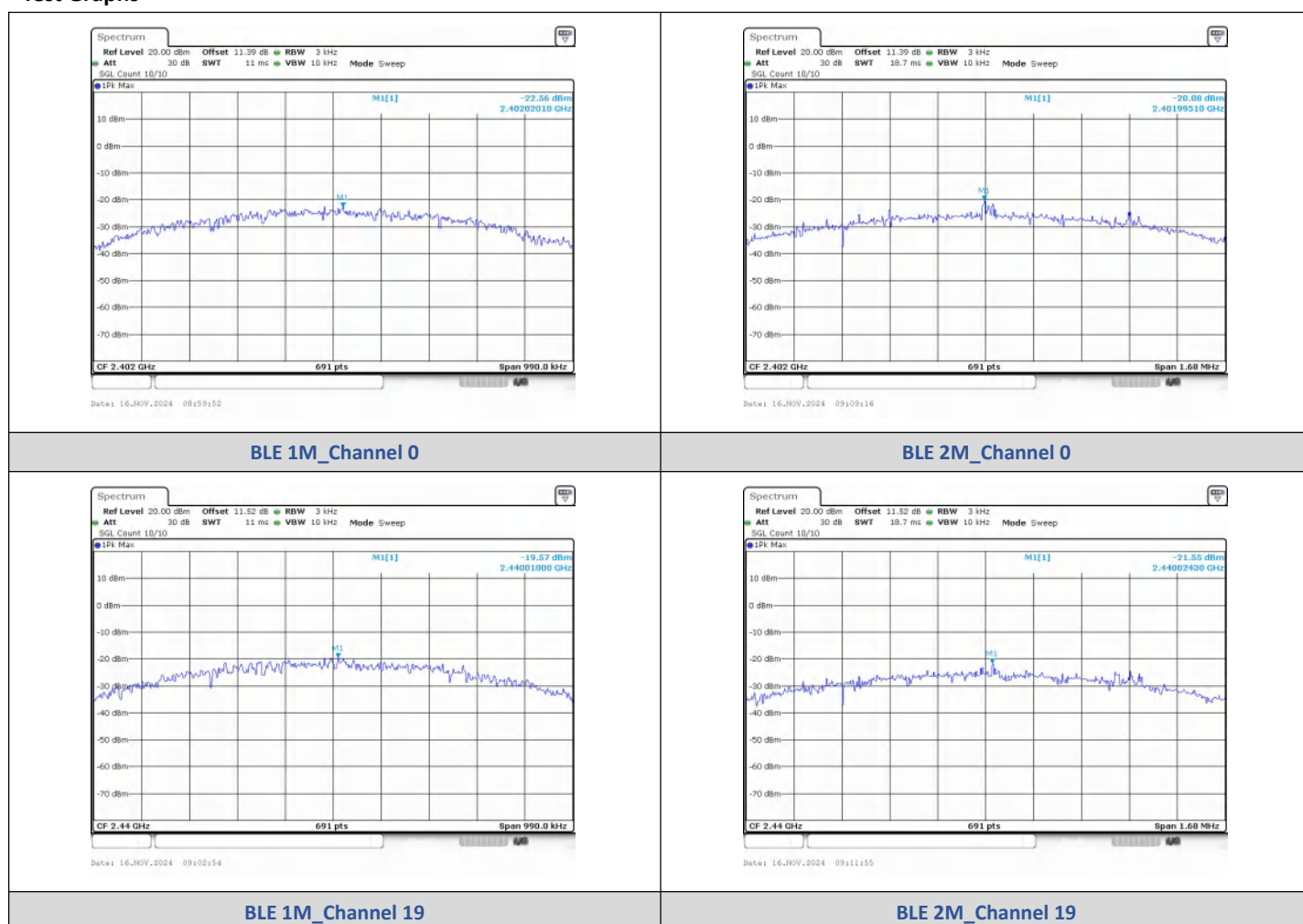
BLE 2M_Channel 39

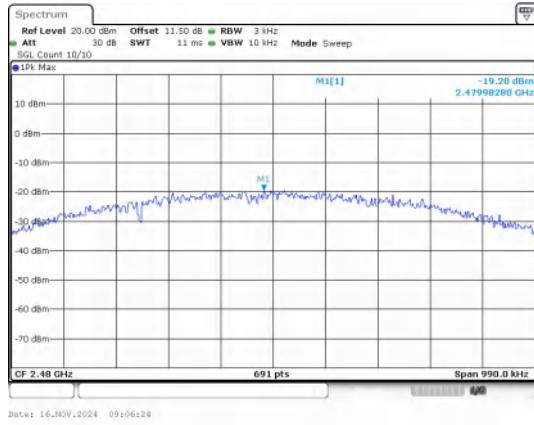
6) Power Spectral Density

Test Result

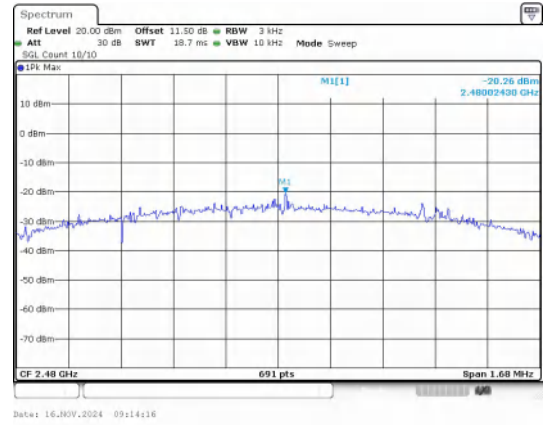
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-22.560	≤8	PASS
BLE 1M	19	-19.570	≤8	PASS
BLE 1M	39	-19.200	≤8	PASS
BLE 2M	0	-20.080	≤8	PASS
BLE 2M	19	-21.550	≤8	PASS
BLE 2M	39	-20.260	≤8	PASS

Test Graphs





BLE 1M_Channel 39



BLE 2M_Channel 39