

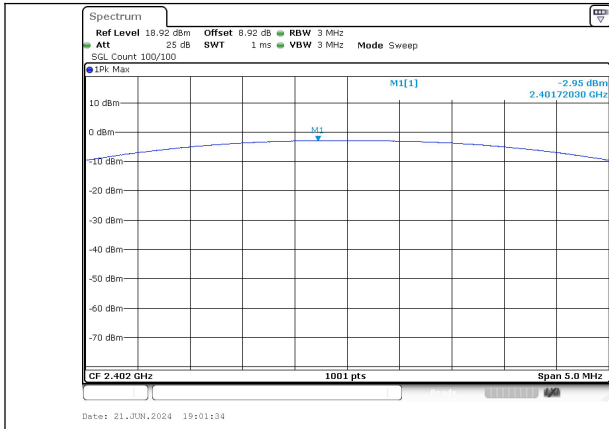
# Appendix A

Report No.:	CISRR240606051
FCC ID:	2AWDJ-BLM5550
Product Name:	Bluetooth asset tagging
Model No.:	BLM5550
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

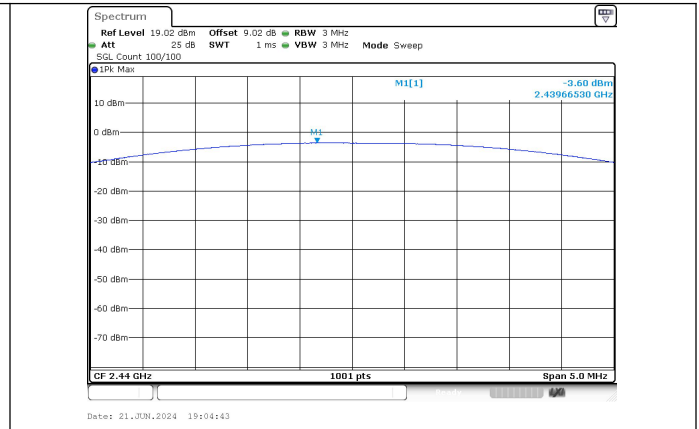
# 1) Conducted Peak Output Power

## Test Result

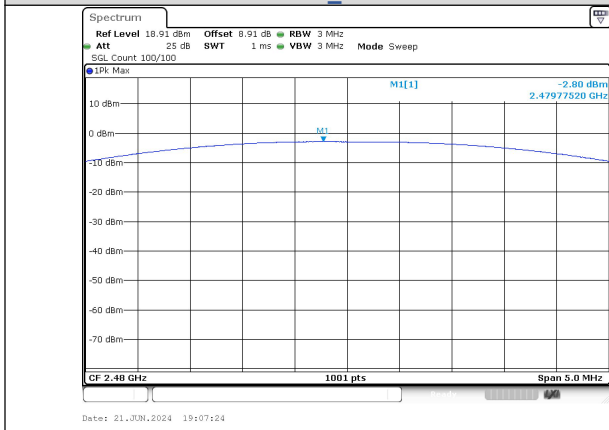
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
LE	0	-2.95	0.51	30	PASS
	19	-3.60	0.44	30	PASS
	39	-2.80	0.52	30	PASS



**Peak Output Power  
BLE 1M\_Channel 0**



**Peak Output Power  
BLE 1M\_Channel 19**



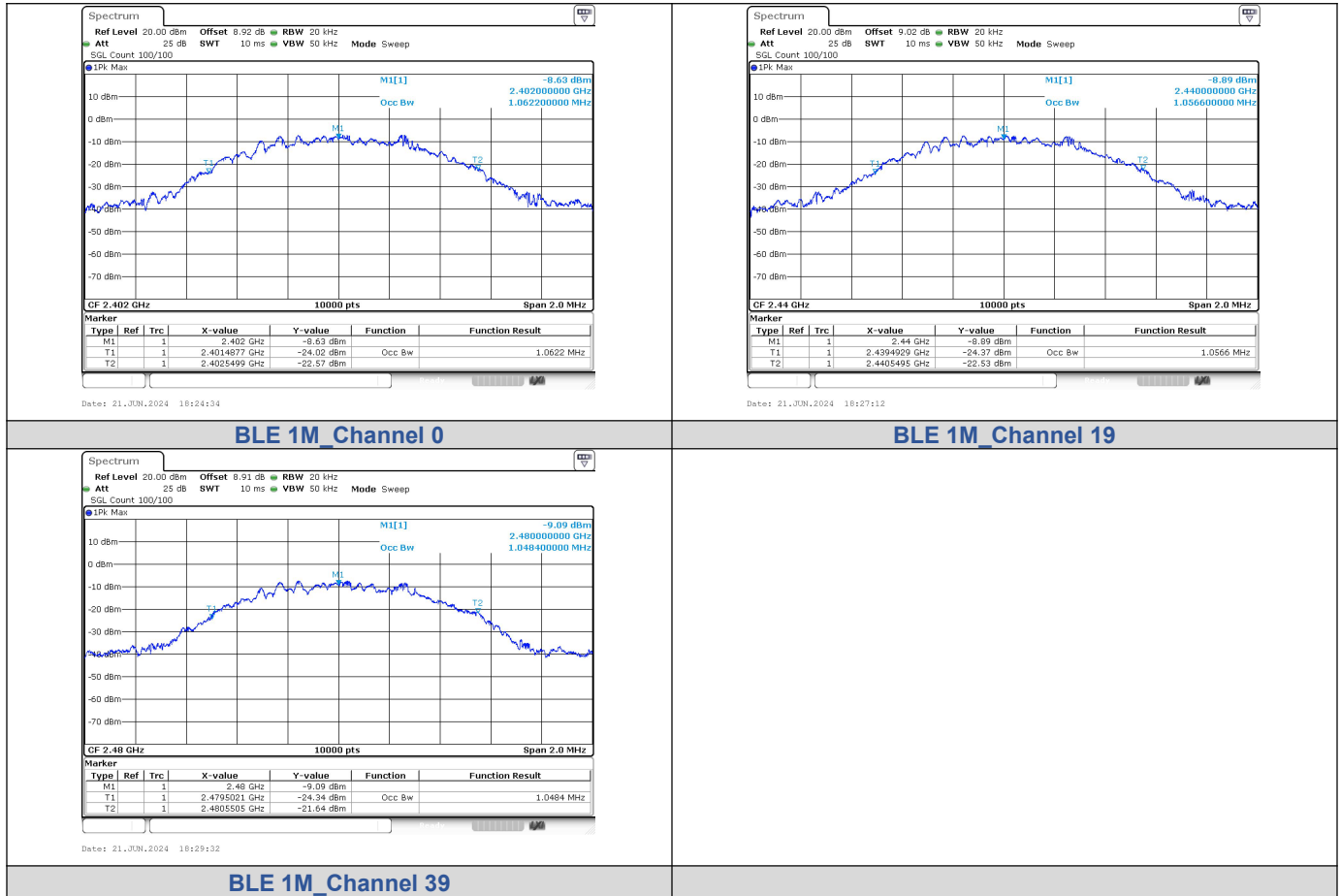
**Peak Output Power  
BLE 1M\_Channel 39**

## 99% Bandwidth

### Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0620
BLE 1M	19	2440	1.0566
BLE 1M	39	2480	1.0484

### Test Graphs

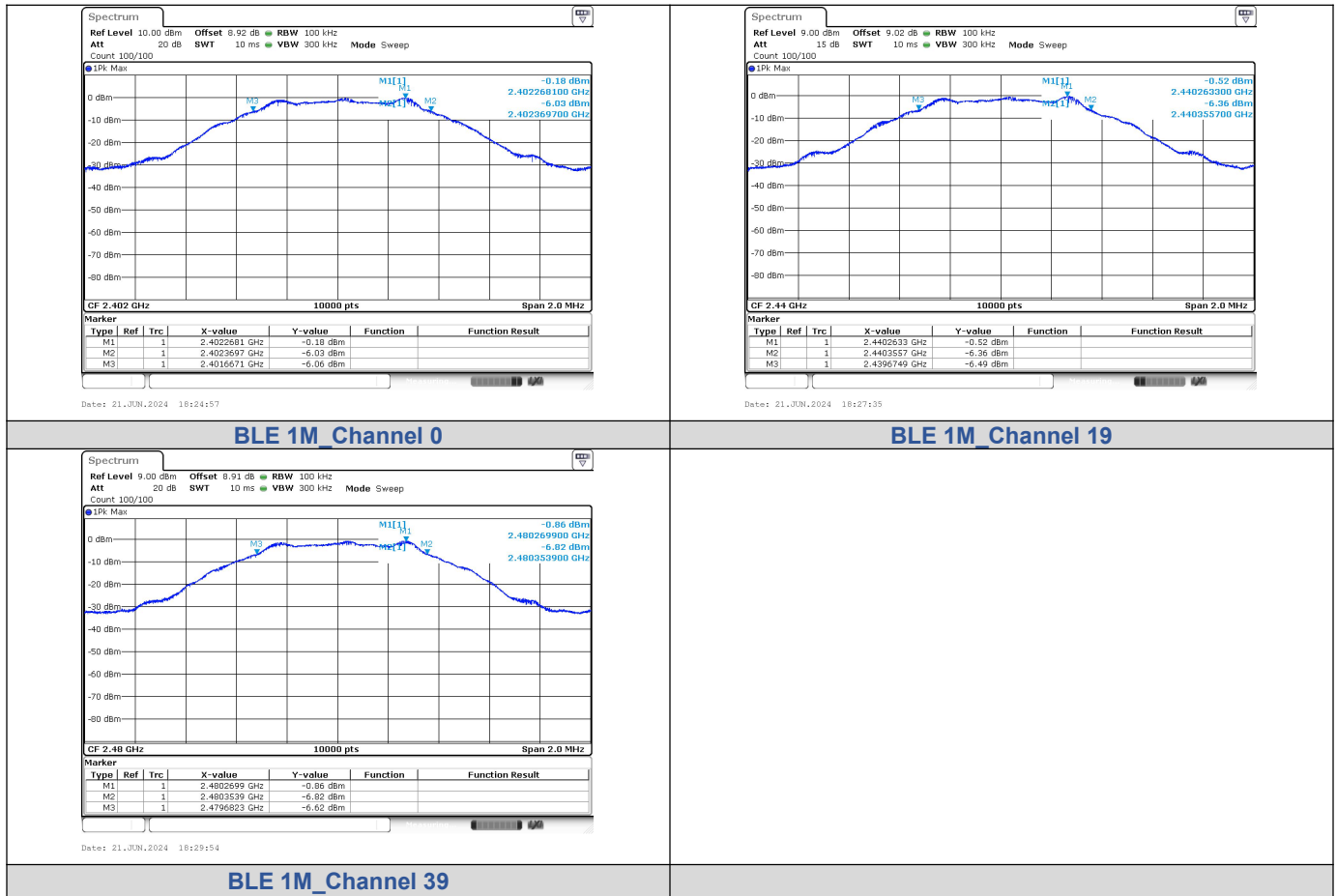


## 6dB Bandwidth

### Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.7000	≥0.5	PASS
	19	2440	0.6900		PASS
	39	2480	0.6700		PASS

### Test Graphs

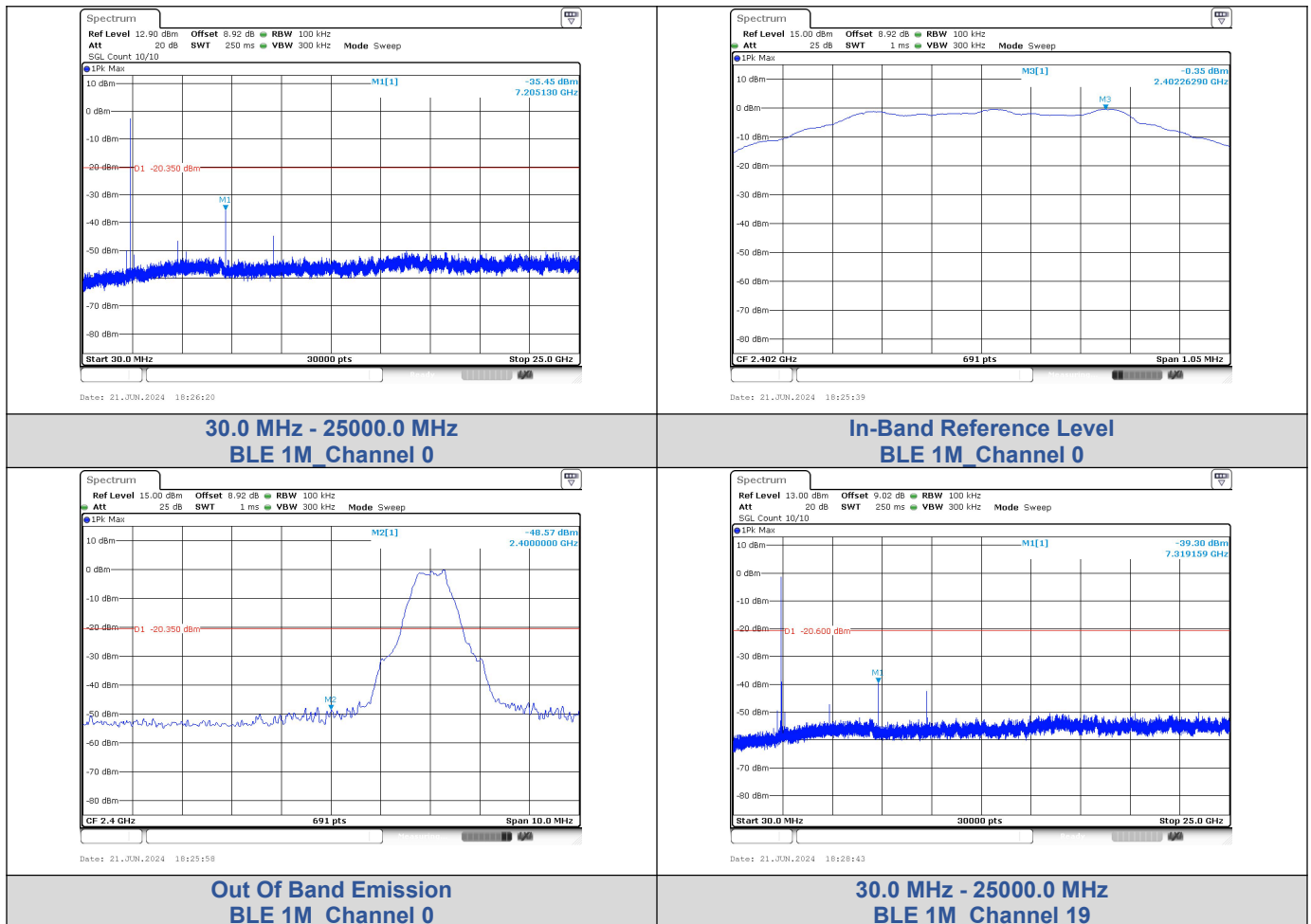


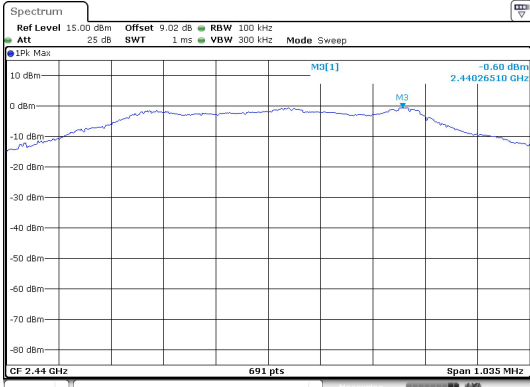
## Conducted Out Of Band Emission

### Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-48.573	-20.35	-28.223	PASS
		7205.13	-35.447	-20.35	-15.097	PASS
	19	7319.16	-39.303	-20.6	-18.703	PASS
	39	2483.50	-53.071	-20.9	-32.171	PASS
		9920.20	-40.052	-20.9	-19.152	PASS

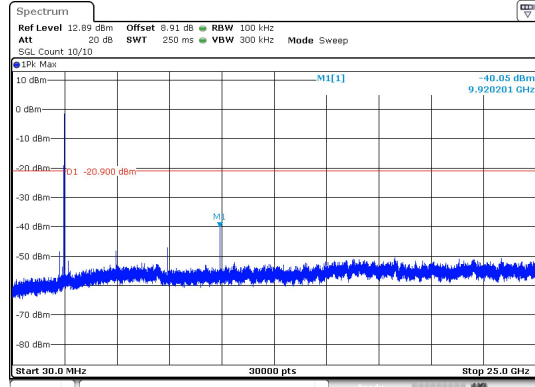
### Test Graphs





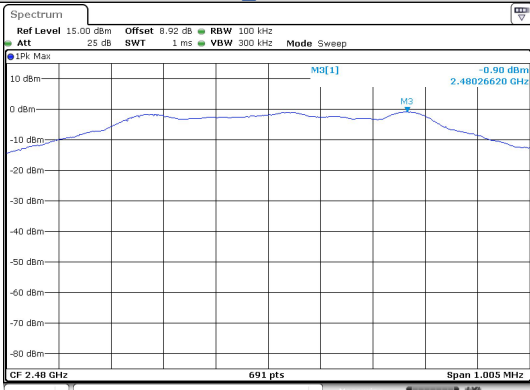
Date: 21 JUN 2024 18:28:19

**In-Band Reference Level  
BLE 1M\_Channel 19**



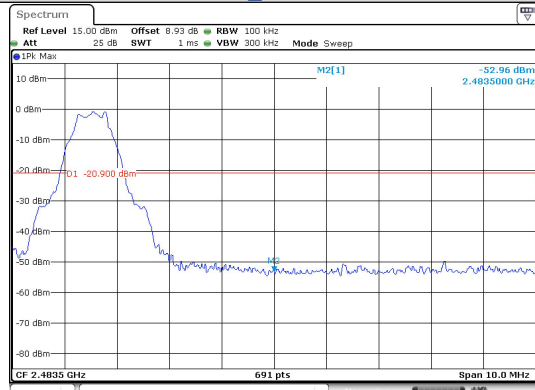
Date: 21 JUN 2024 18:31:18

**30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 39**



Date: 21 JUN 2024 18:30:37

**In-Band Reference Level  
BLE 1M\_Channel 39**



Date: 21 JUN 2024 18:30:56

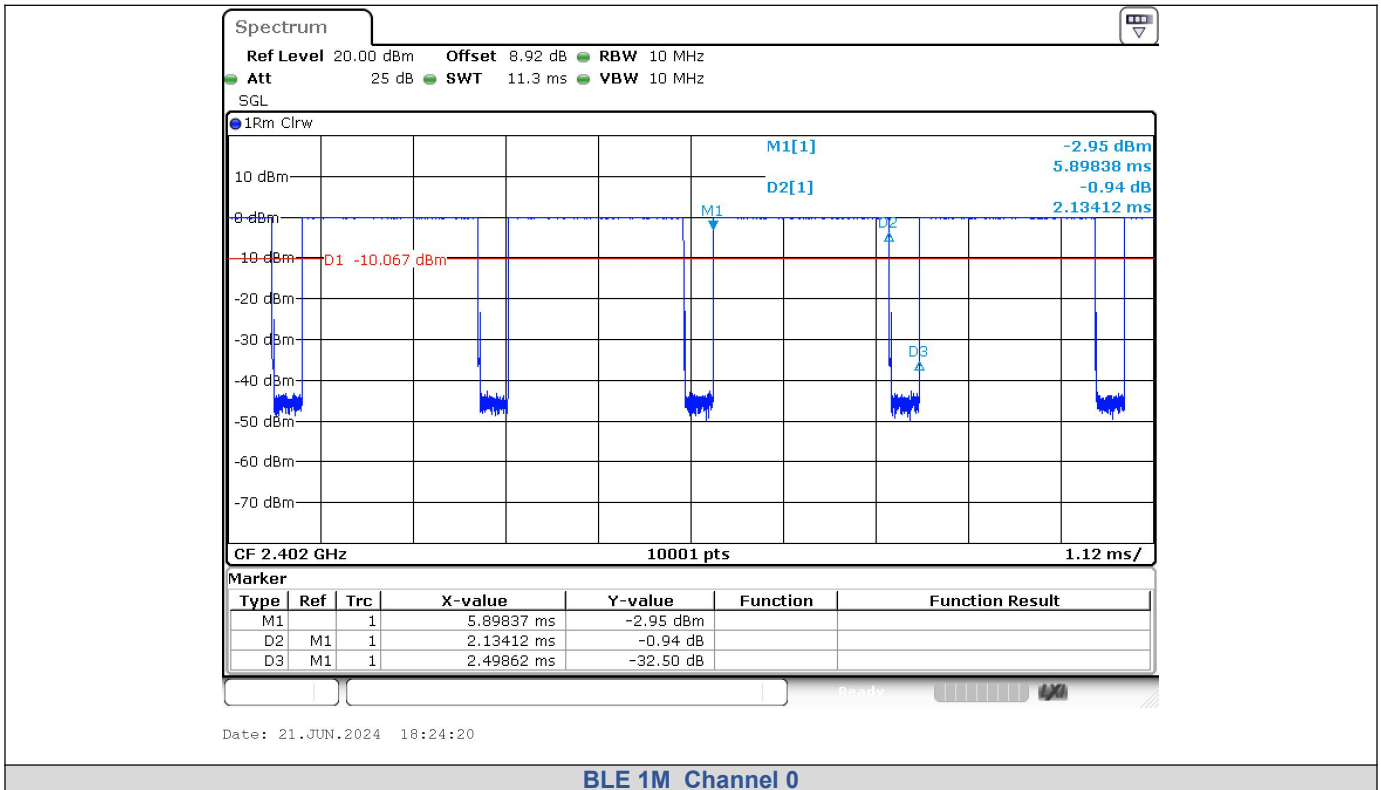
**Out Of Band Emission  
BLE 1M\_Channel 39**

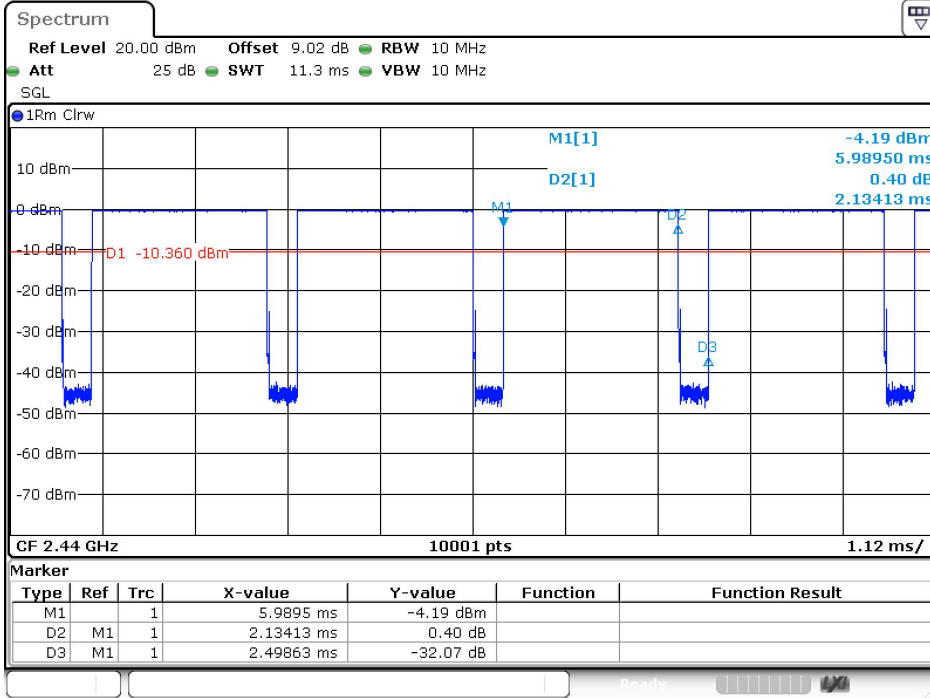
## Duty Cycle

### 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

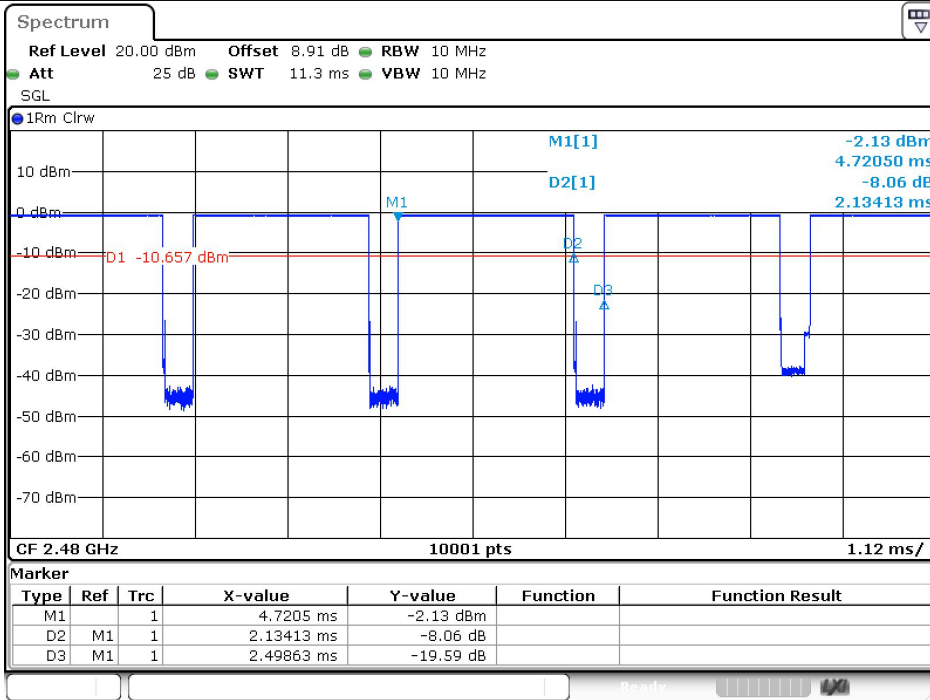
### Test Graphs





Date: 21.JUN.2024 18:26:58

**BLE 1M\_Channel 19**



Date: 21.JUN.2024 18:29:18

**BLE 1M\_Channel 39**



## Power Spectral Density

### Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-17.05	≤8	PASS
BLE 1M	19	-17.41	≤8	PASS
BLE 1M	39	-17.57	≤8	PASS

### Test Graphs

