

Appendix A

Report No.:	CISRR23120401001
FCC ID:	2BD95-ZSCYZS1
Product Name:	Smart Cylinder
Model No.:	S1
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Conducted Peak Output Power

Test Result

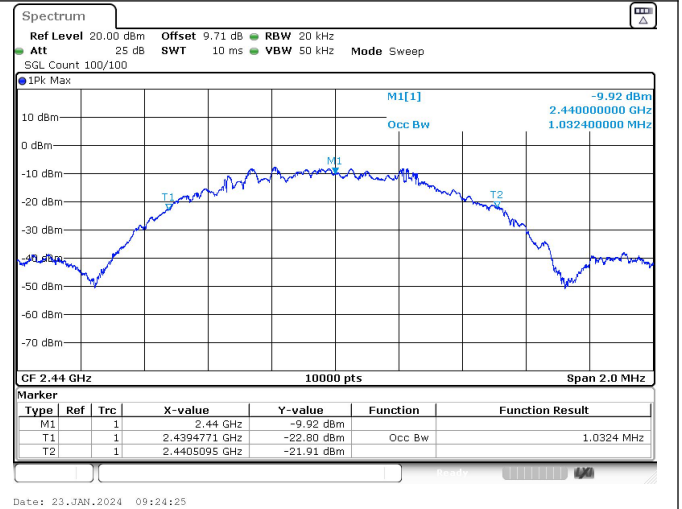
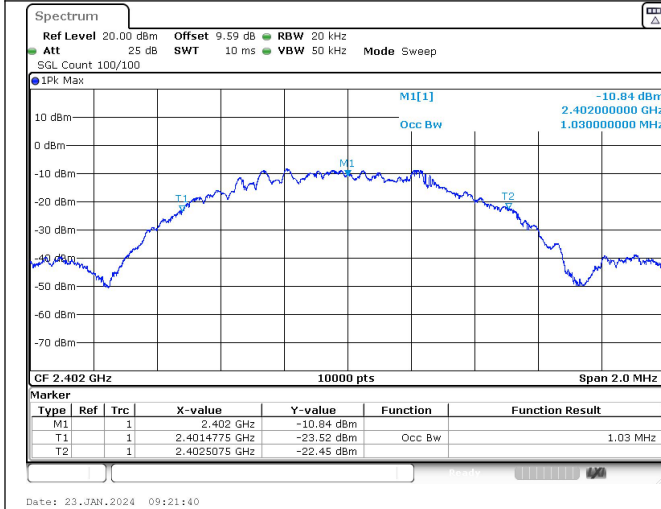
Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
LE	0	-1.288	0.74	30	PASS
	19	-0.897	0.81	30	PASS
	39	-0.748	0.84	30	PASS

2) 99% Bandwidth

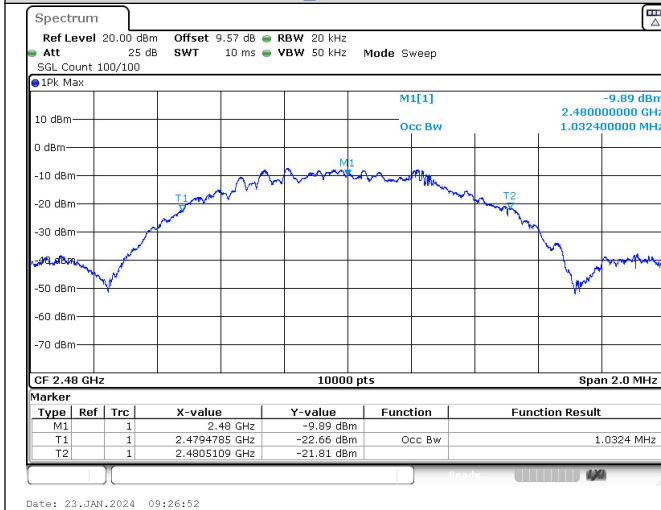
Test Result

Mode	Channel	99% BW (MHz)
LE	0	1.0300
LE	19	1.0320
LE	39	1.0320

Test Graphs



LE_Channel 0



LE_Channel 39

LE_Channel 19

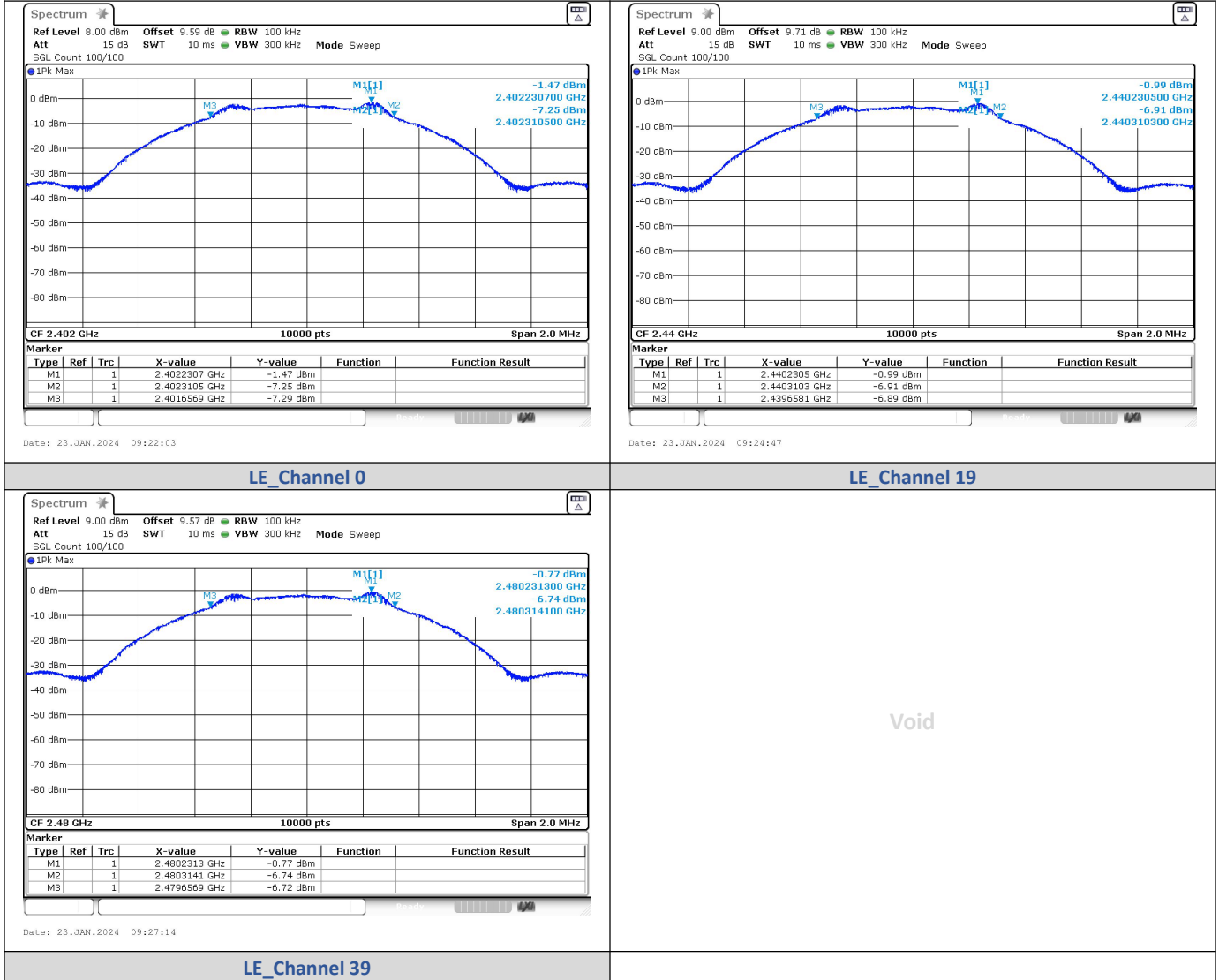
Void

3) 6dB Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
LE	0	2402	0.6500	0.5	PASS
	19	2440	0.6500		PASS
	39	2480	0.6500		PASS

Test Graphs

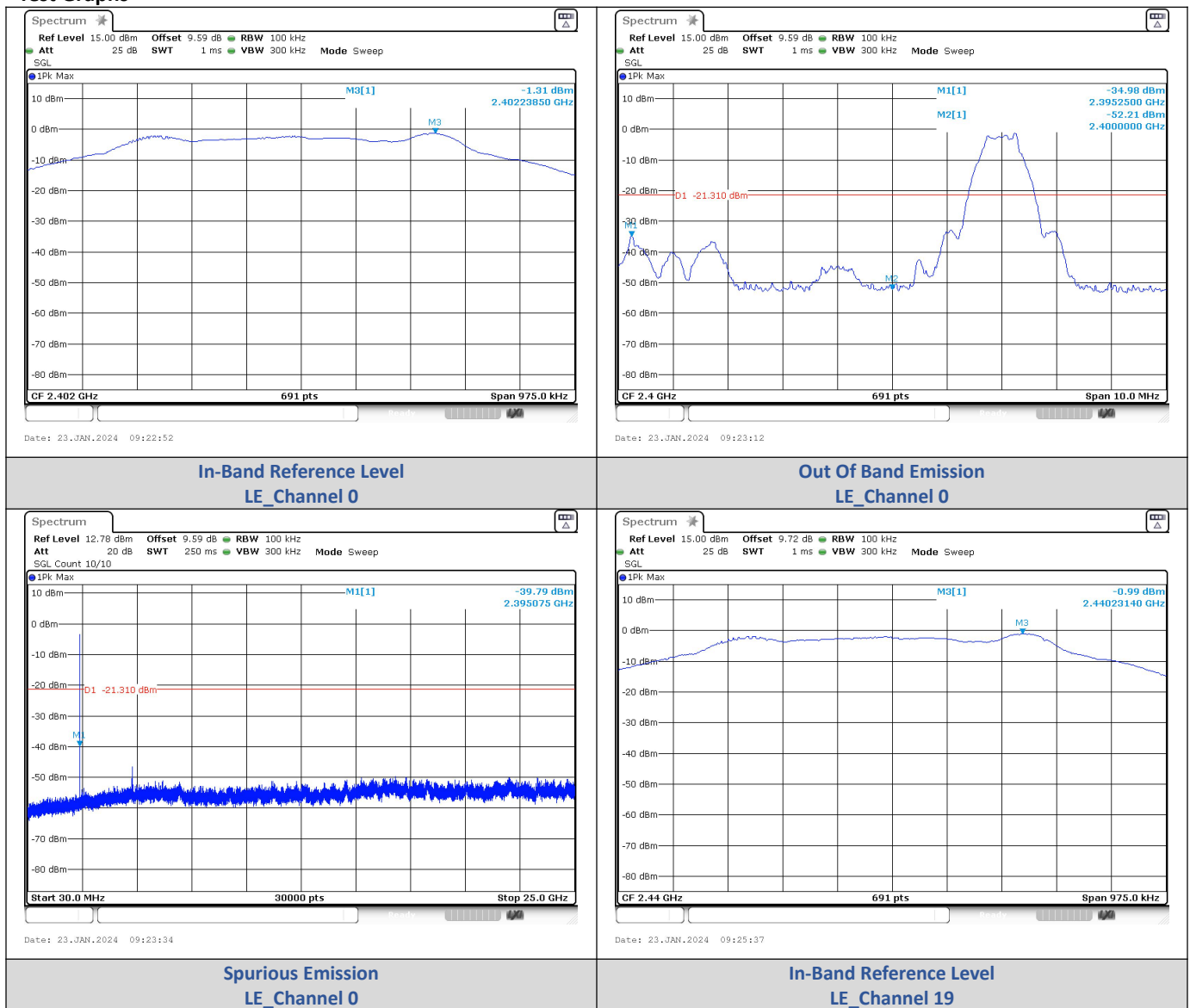


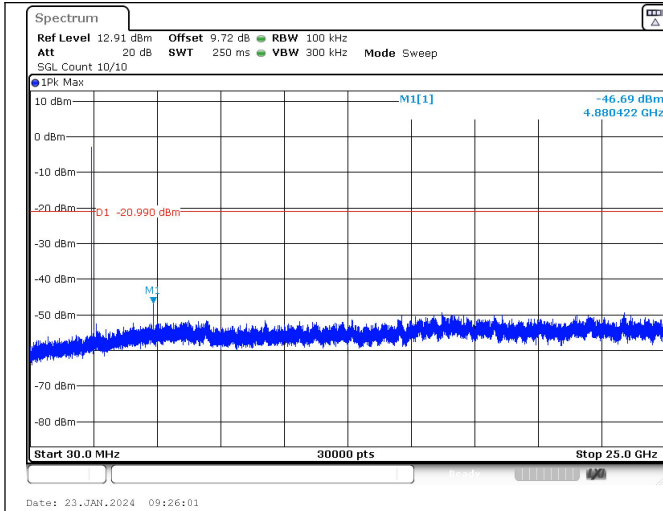
4) Conducted Out Of Band Emission

Test Result

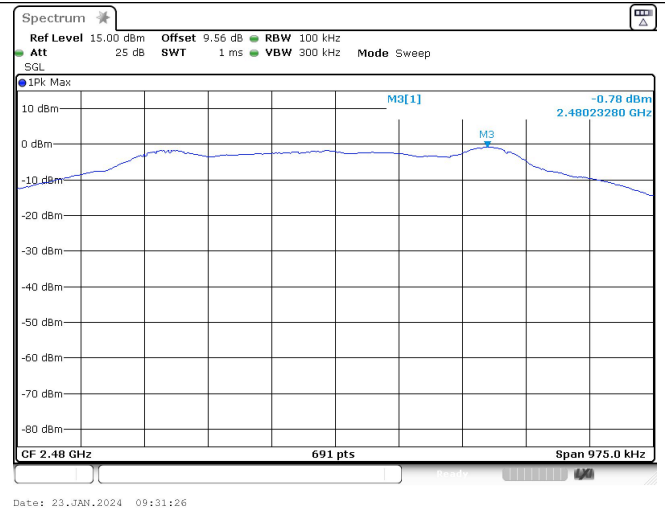
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
LE	0	2400.00	-52.210	-21.31	-30.900	PASS
		2395.25	-34.982	-21.31	-13.672	PASS
		2395.10	-39.787	-21.31	-18.477	PASS
	19	4880.42	-46.694	-20.99	-25.704	PASS
	39	2483.50	-51.431	-20.78	-30.651	PASS
		4959.49	-45.502	-20.78	-24.722	PASS

Test Graphs

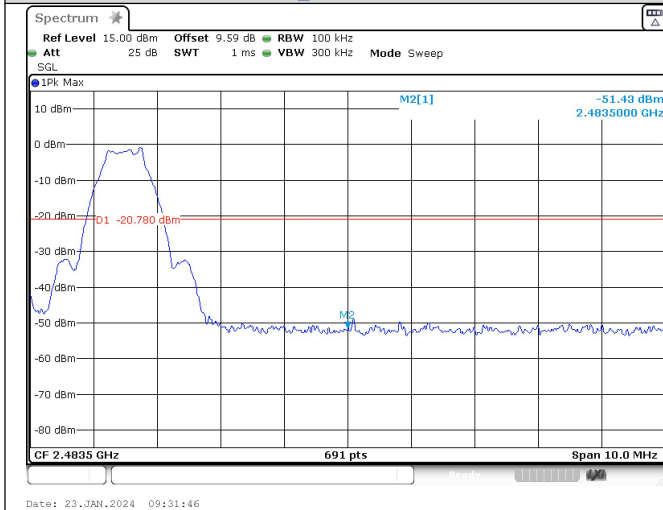




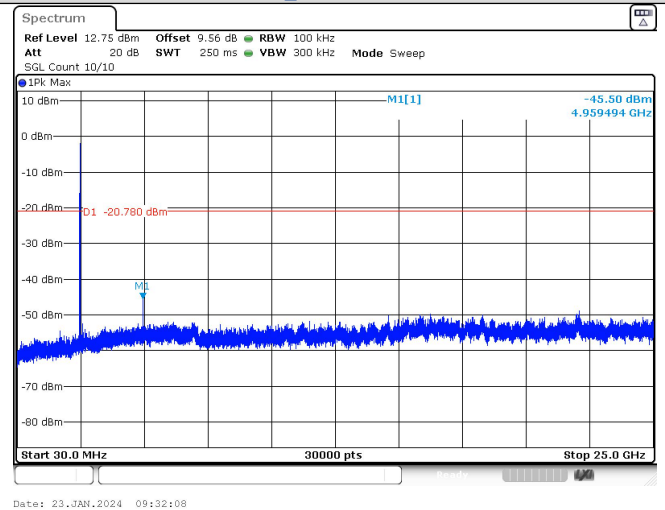
Spurious Emissions
LE_Channel 19



In-Band Reference Level
LE_Channel 39



Out Of Band Emission
LE_Channel 39



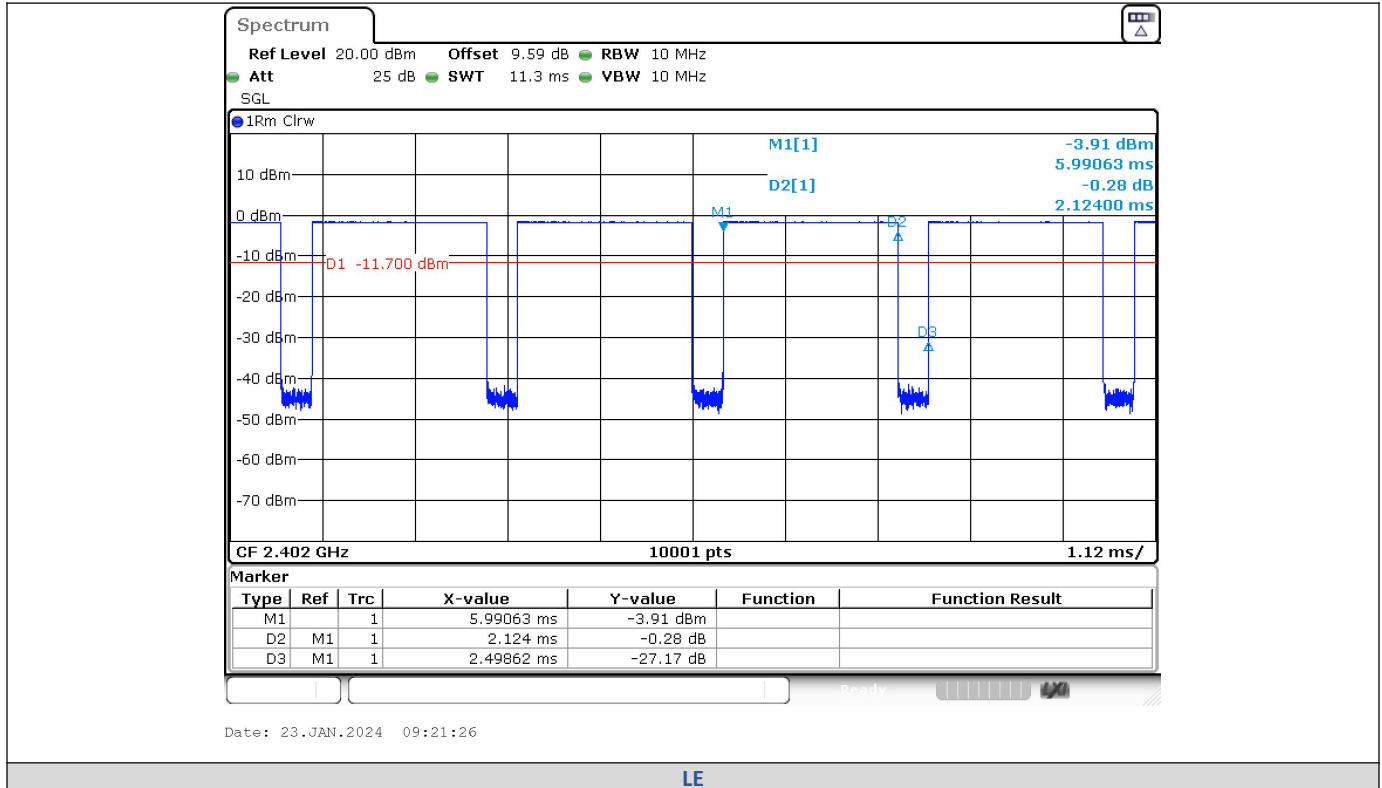
Spurious Emission
LE_Channel 39

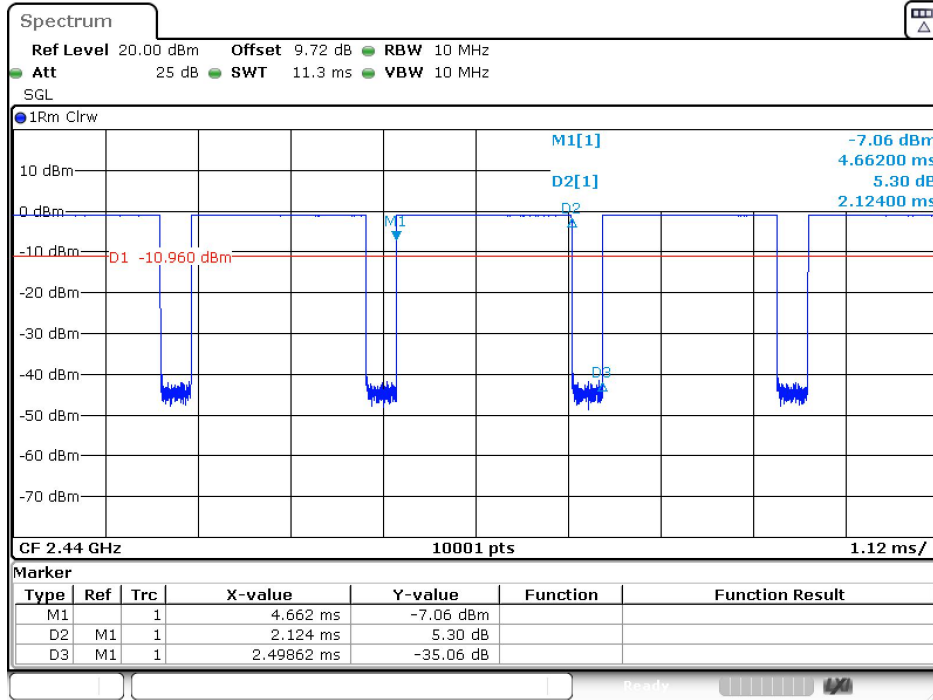
5) Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
LE	0	2.124	2.499	85.01	0.8501	0.7053	0.47
	19	2.124	2.499	85.01	0.8501	0.7053	0.47
	39	2.124	2.499	85.01	0.8501	0.7053	0.47

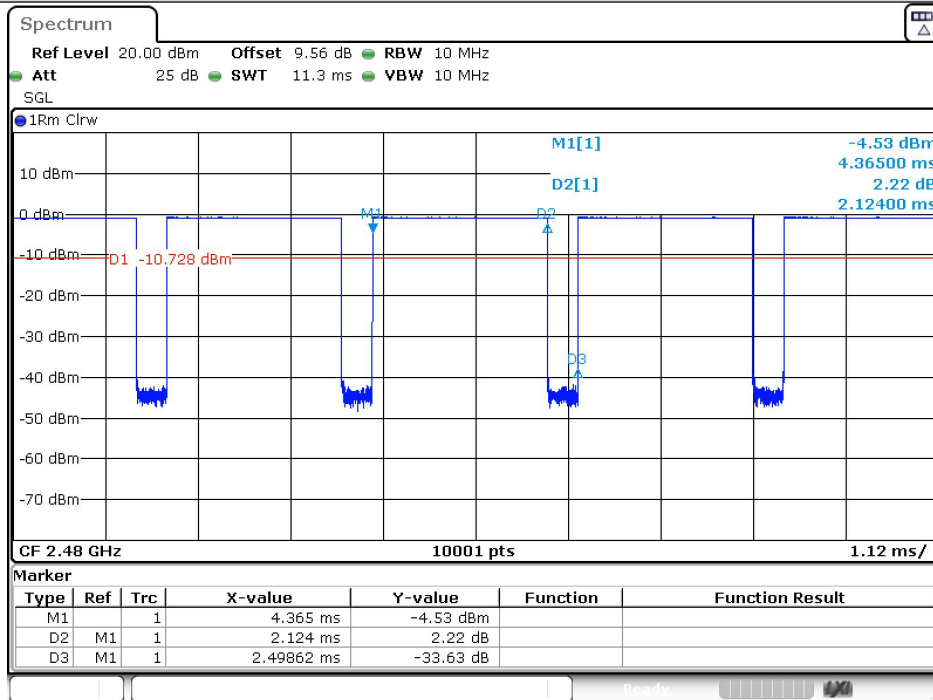
Test Graphs





Date: 23.JAN.2024 09:24:10

LE



Date: 23.JAN.2024 09:26:37

LE

6) Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
LE	0	-17.673	8	PASS
LE	19	-17.436	8	PASS
LE	39	-17.215	8	PASS

Test Graphs

