

APPENDIX REPORT

Project No.	SHT2509061001W	Radio Specification	Bluetooth BLE
Test sample No.	YPHT25090610003	Model No.	BL98NAPW
Start test date	2025-10-21	Finish date	2025-10-21
Temperature	22.1℃	Humidity	53%
Test Engineer	Jiaxing Si	Auditor	Xiaodong Zhao

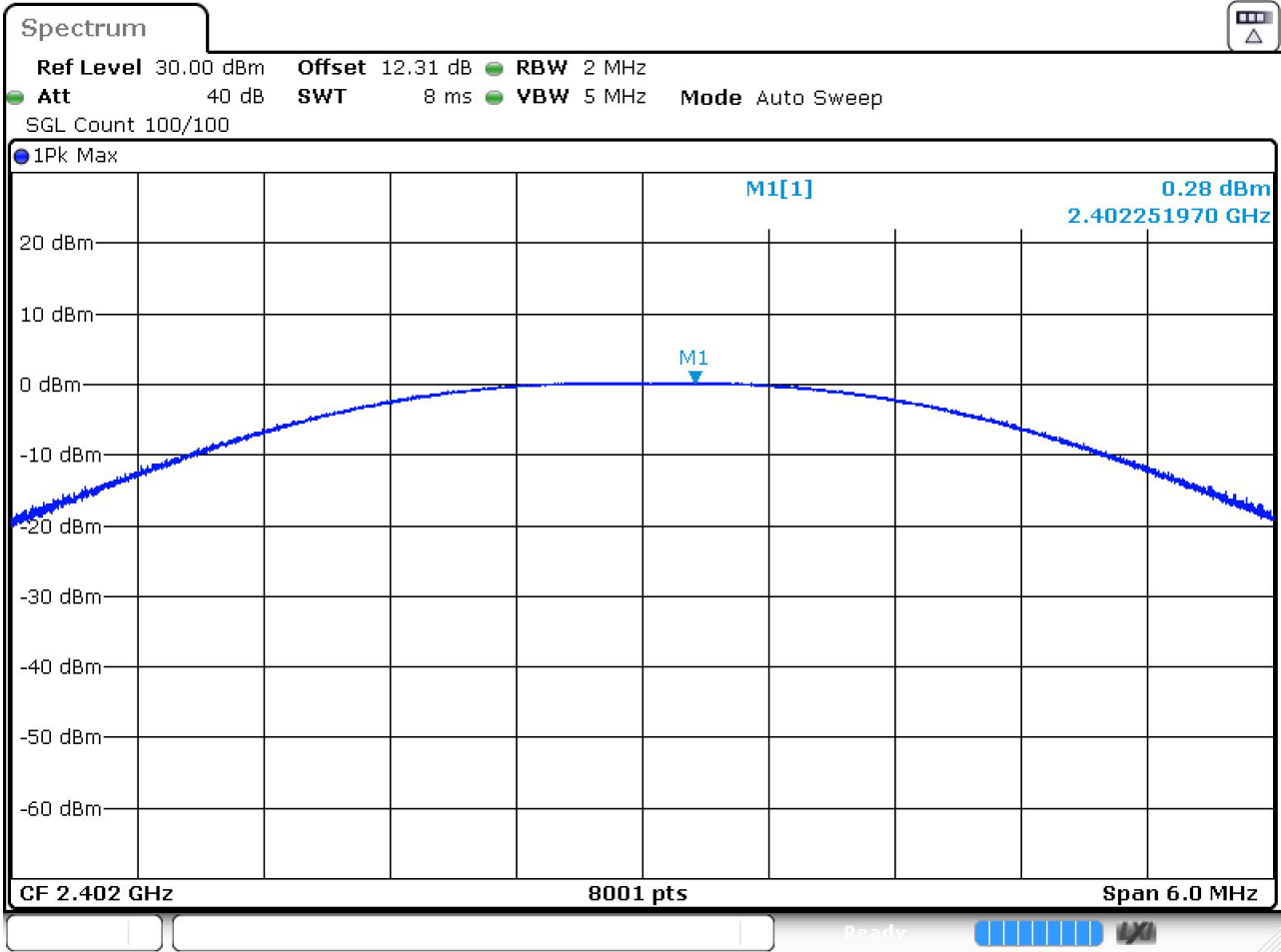
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6db Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emission(Conducted)	PASS

Appendix A: Peak Output Power

Test Result Peak

TestMode	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	2402	0.28	≤30	PASS
BLE_1M	2440	0.67	≤30	PASS
BLE_1M	2480	0.82	≤30	PASS

Test Graphs Peak



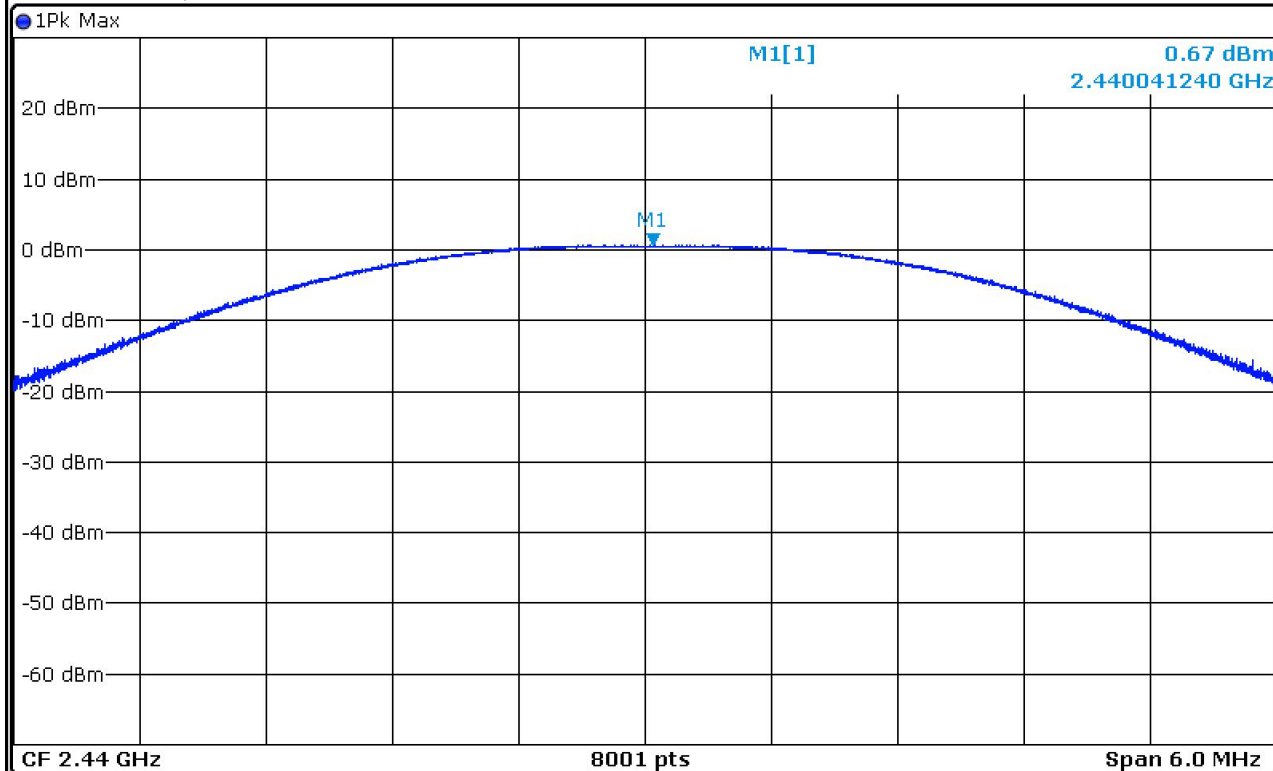
Date: 21.OCT.2025 09:50:48

BLE_1M-2402-PASS

Spectrum



Ref Level 30.00 dBm Offset 12.30 dB RBW 2 MHz
Att 40 dB SWT 8 ms VBW 5 MHz Mode Auto Sweep
SGL Count 100/100



Ready

Date: 21.OCT.2025 09:52:17

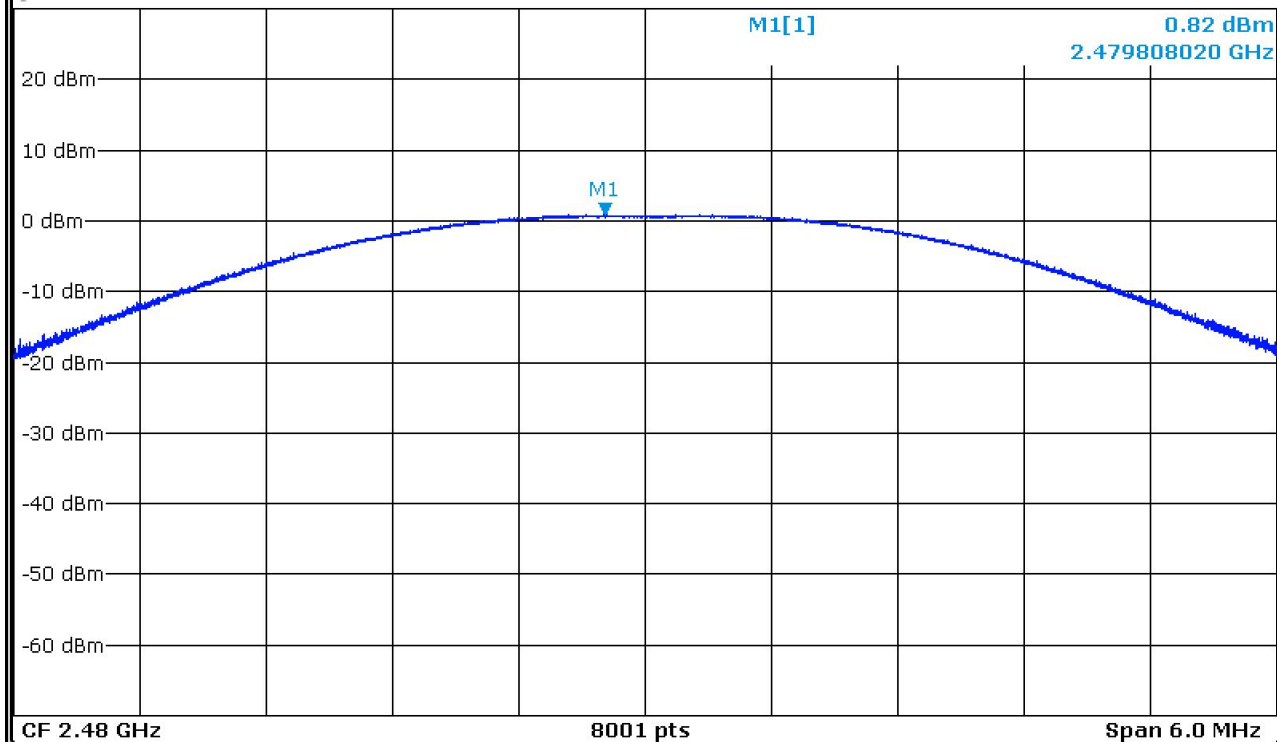
BLE_1M-2440-PASS

Spectrum



Ref Level 30.00 dBm Offset 12.29 dB RBW 2 MHz
Att 40 dB SWT 8 ms VBW 5 MHz Mode Auto Sweep
SGL Count 100/100

1Pk Max



Ready



Date: 21.OCT.2025 09:53:42

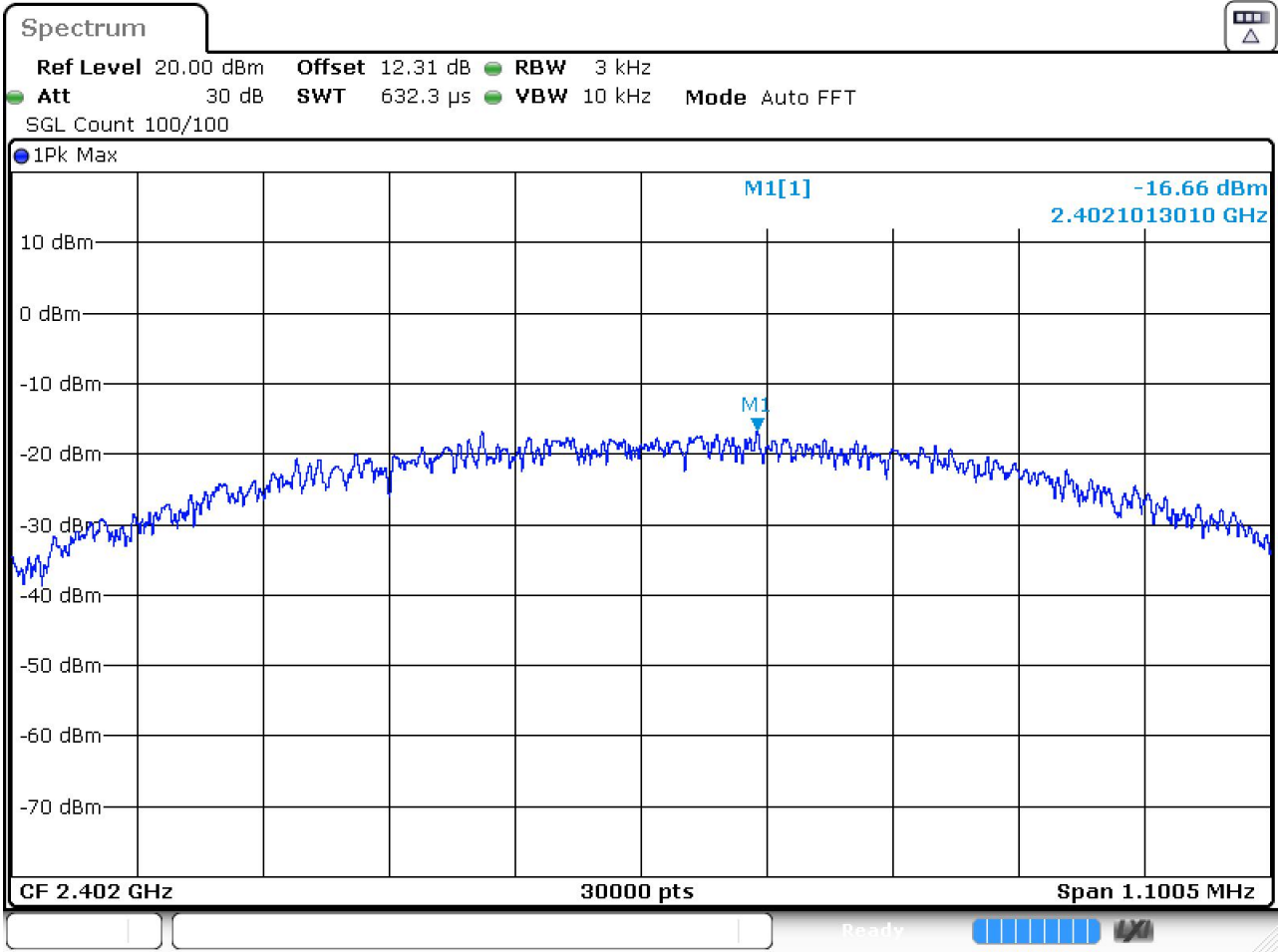
BLE_1M-2480-PASS

Appendix B: Power Spectral Density

Test Result

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	2402	-16.66	≤8.00	PASS
BLE_1M	2440	-16.33	≤8.00	PASS
BLE_1M	2480	-16.07	≤8.00	PASS

Test Graphs



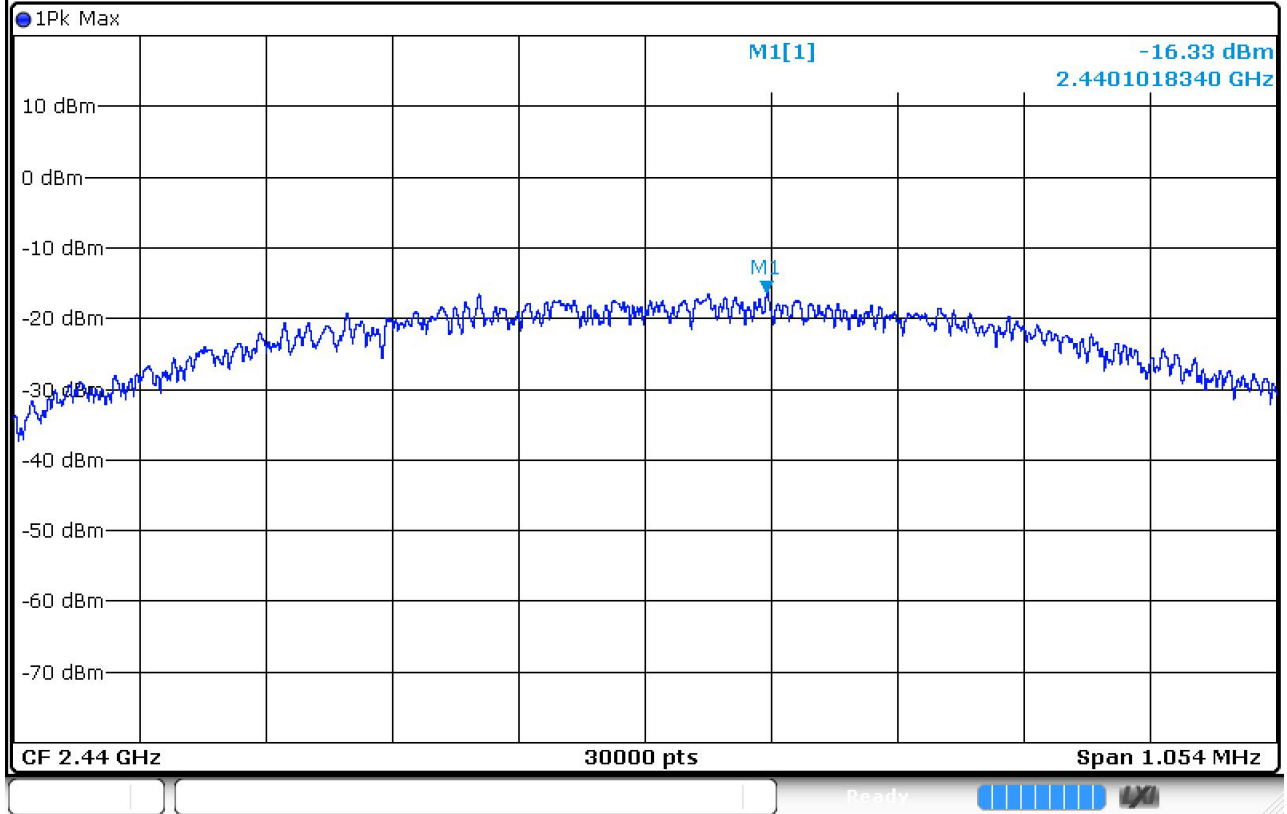
Date: 21.OCT.2025 09:50:57

BLE_1M-2402-PASS

Spectrum



Ref Level 20.00 dBm Offset 12.30 dB RBW 3 kHz
Att 30 dB SWT 631.9 μ s VBW 10 kHz Mode Auto FFT
SGL Count 100/100



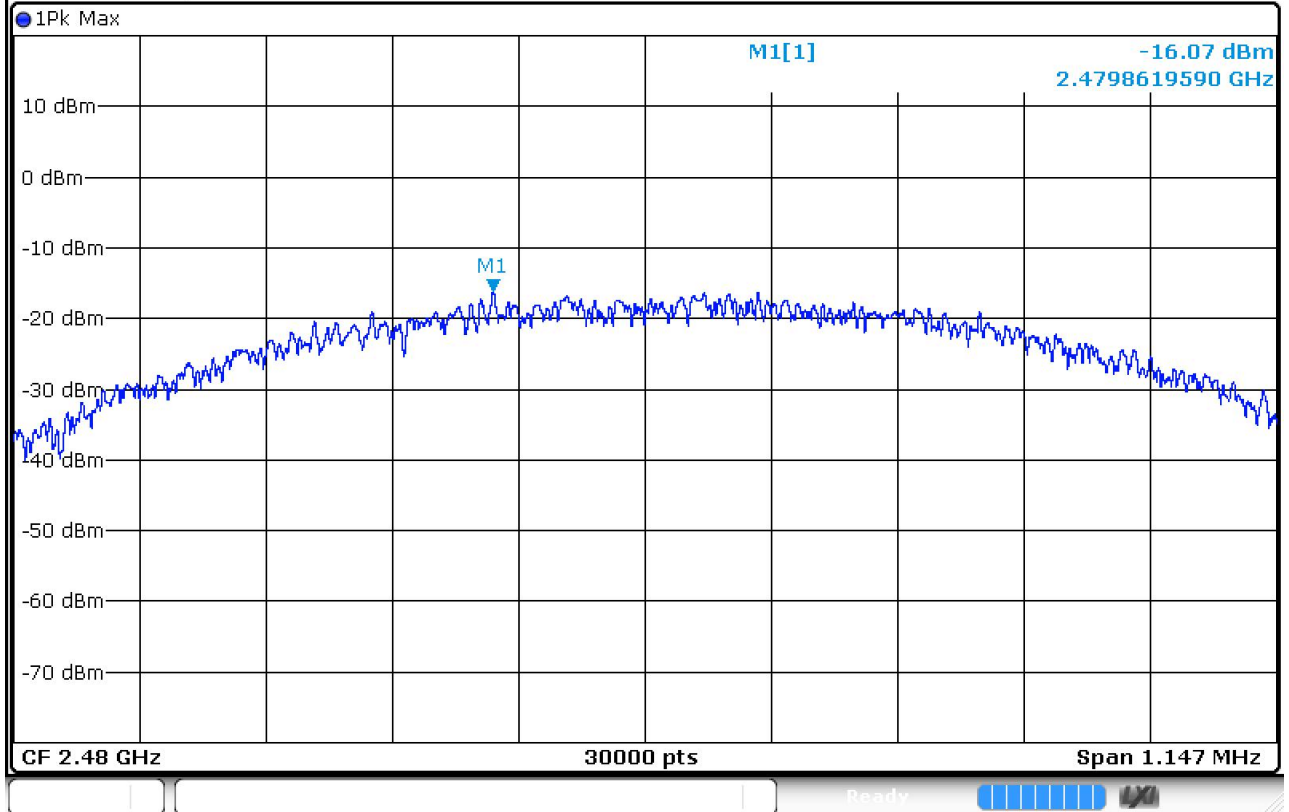
Date: 21.OCT.2025 09:52:26

BLE_1M-2440-PASS

Spectrum



Ref Level 20.00 dBm Offset 12.29 dB RBW 3 kHz
Att 30 dB SWT 632.2 μ s VBW 10 kHz Mode Auto FFT
SGL Count 100/100



Date: 21.OCT.2025 09:53:51

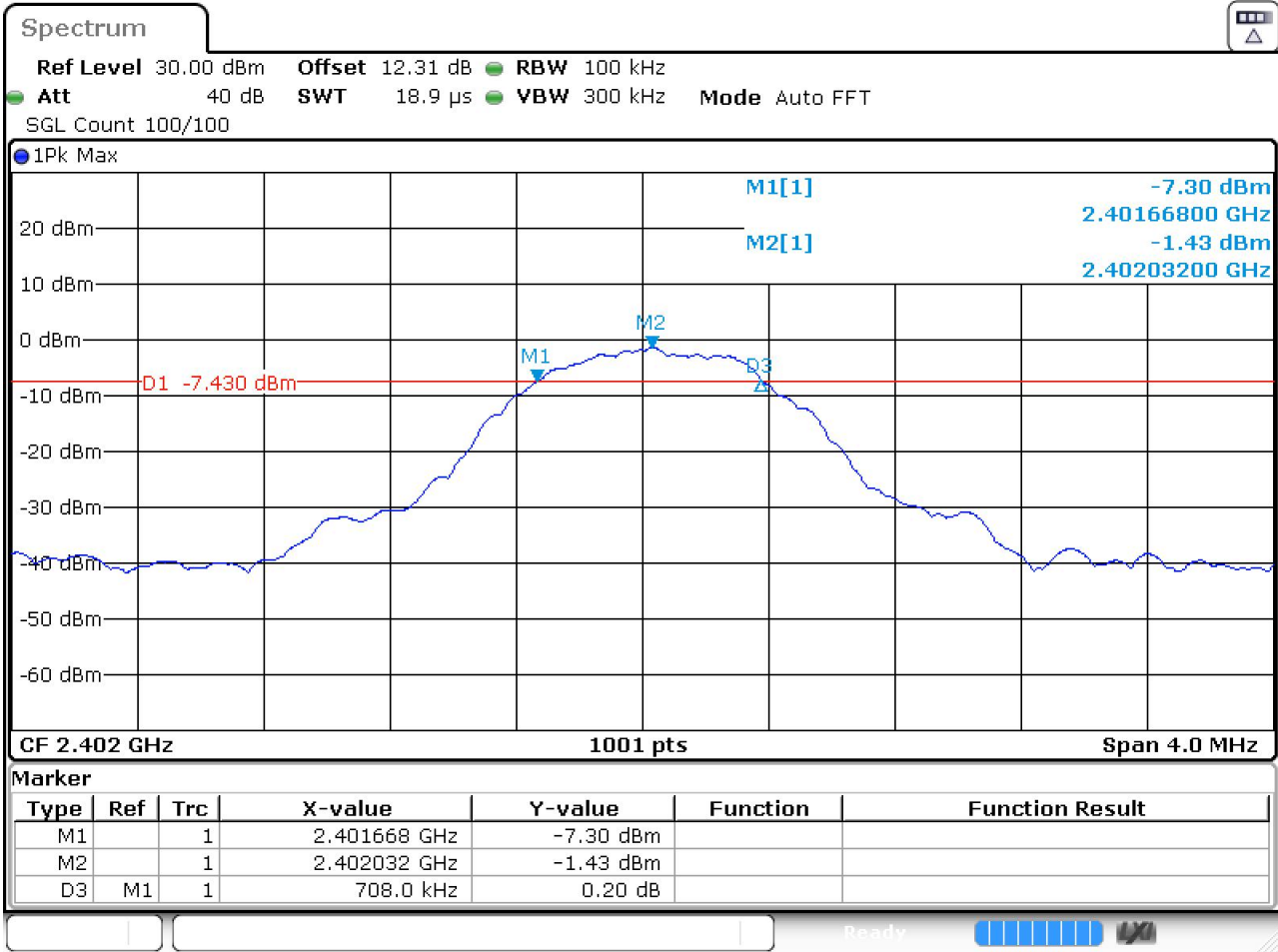
BLE_1M-2480-PASS

Appendix C: 6db Bandwidth

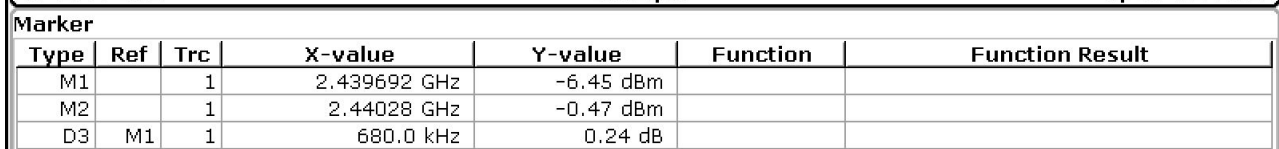
Test Result

TestMode	Frequency[MHz]	6db Bandwidth [MHz]	Limit[MHz]	Verdict
BLE_1M	2402	0.71	0.5	PASS
BLE_1M	2440	0.68	0.5	PASS
BLE_1M	2480	0.74	0.5	PASS

Test Graphs



☒ 1Pk Max

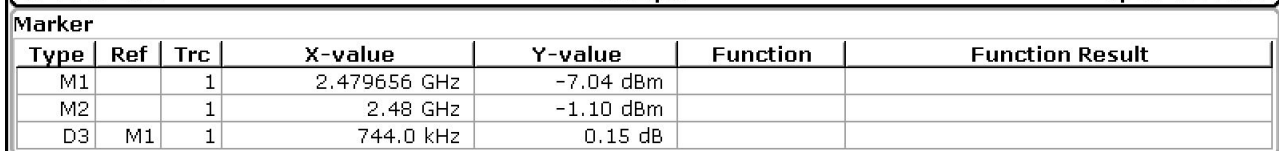


Ready

Date: 21.OCT.2025 09:52:11

BLE 1M-2440-PASS

☒ 1Pk Max



Ready

Date: 21.OCT.2025 09:53:36

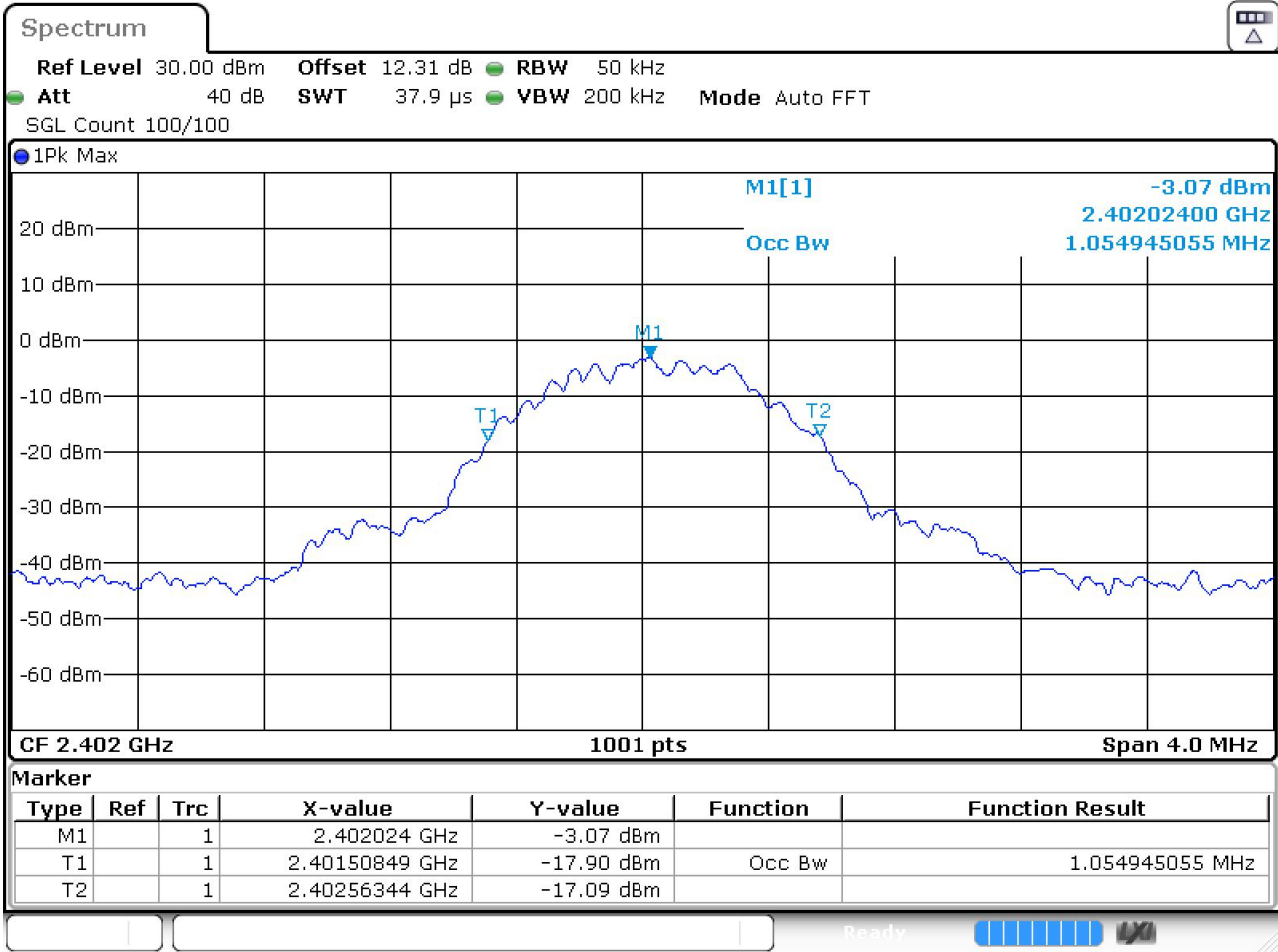
BLE_1M-2480-PASS

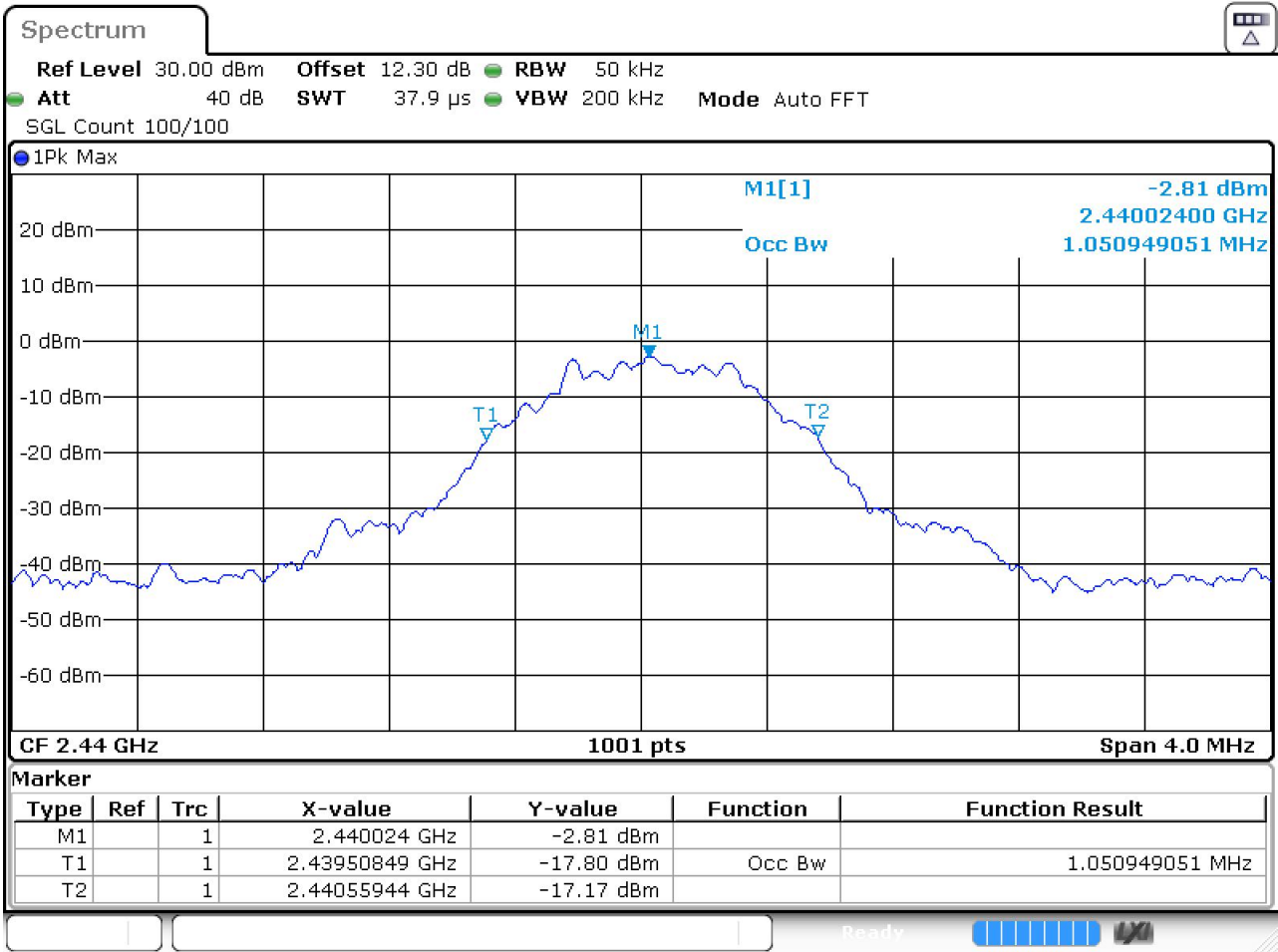
Appendix D: 99% Occupied Bandwidth

Test Result

TestMode	Frequency[MHz]	99% Occupied Bandwidth [MHz]	Limit[MHz]	Verdict
BLE_1M	2402	1.0549	---	---
BLE_1M	2440	1.0509	---	---
BLE_1M	2480	1.0390	---	---

Test Graphs



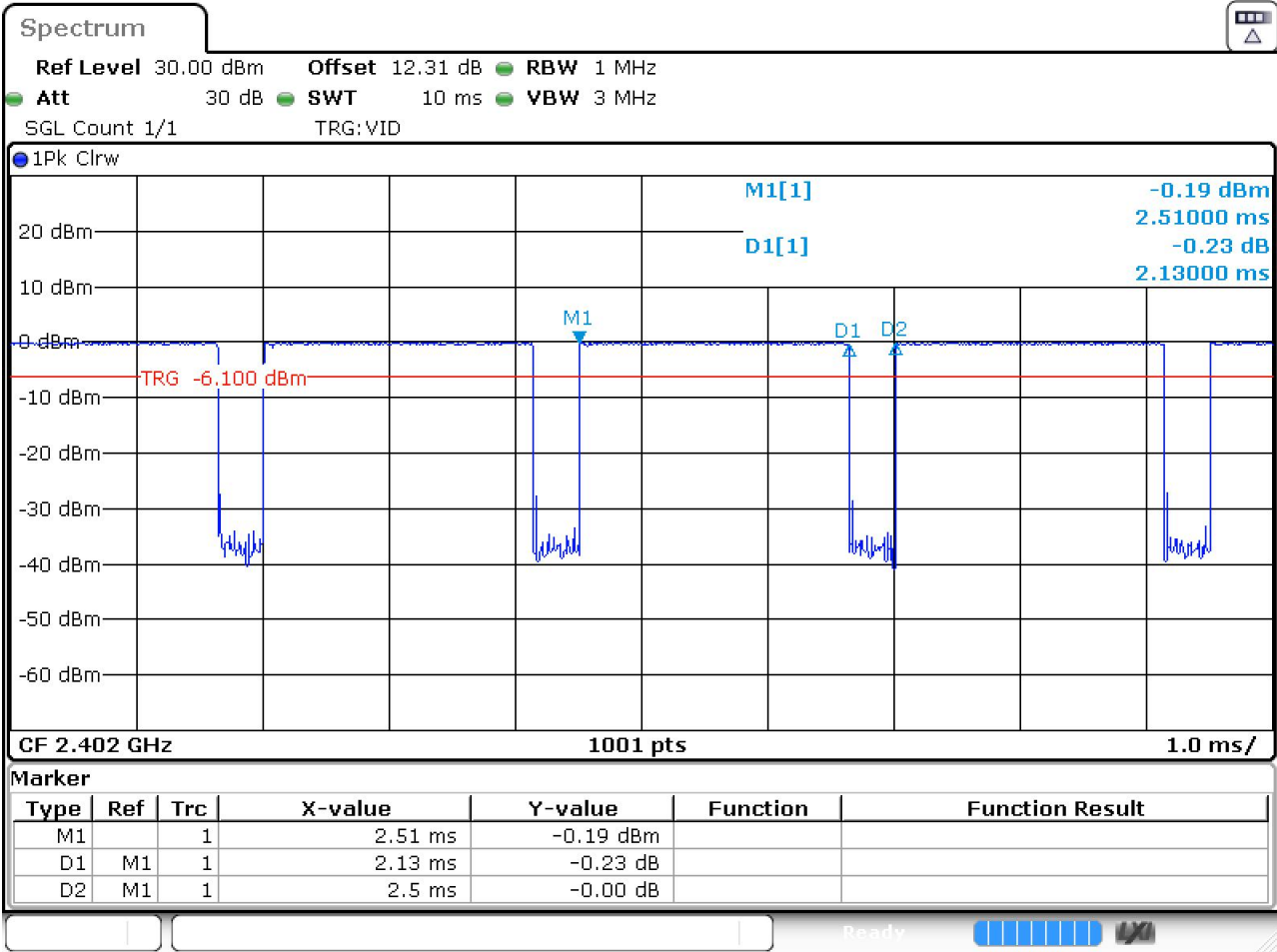


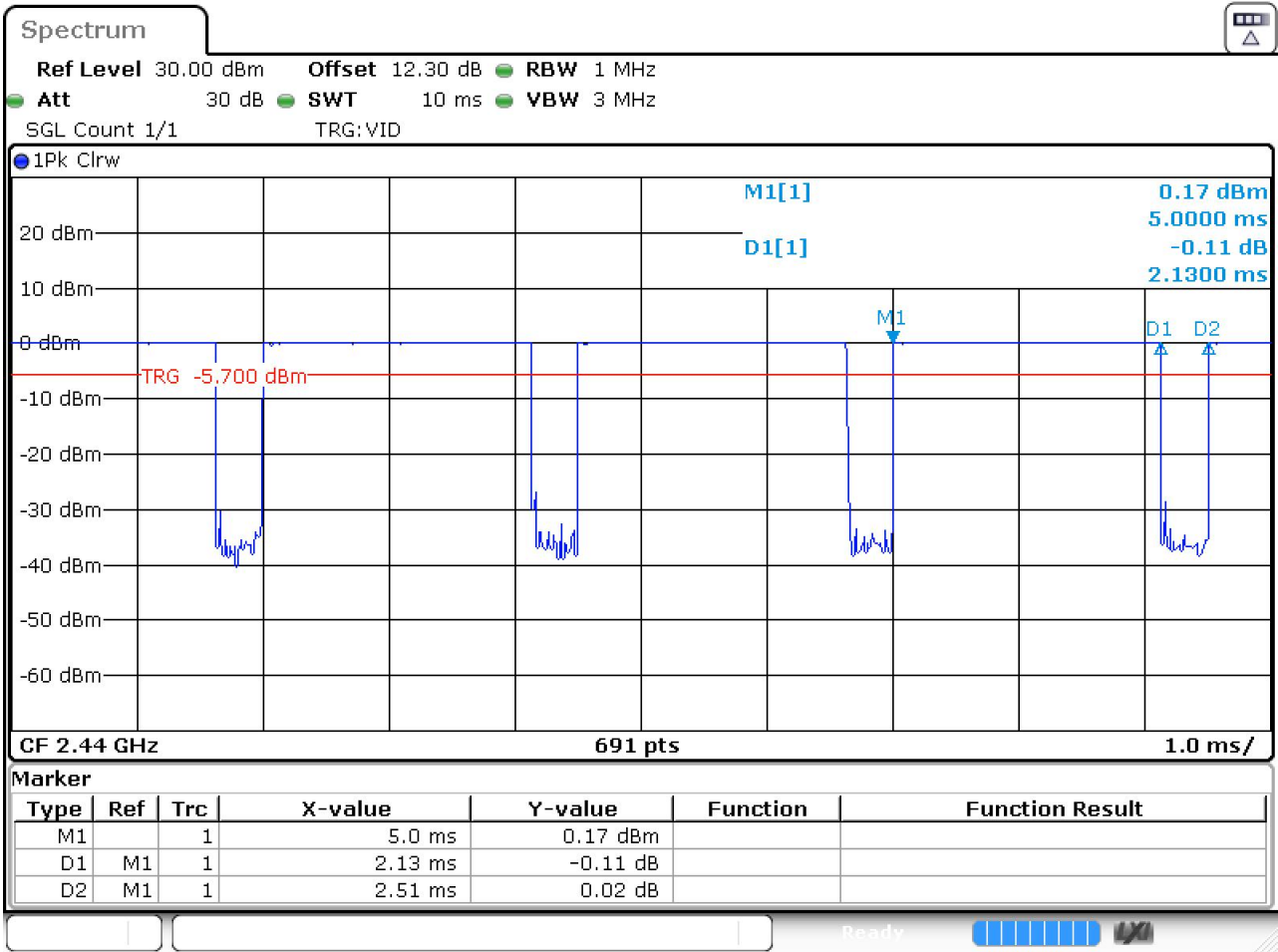
Appendix E: Duty Cycle

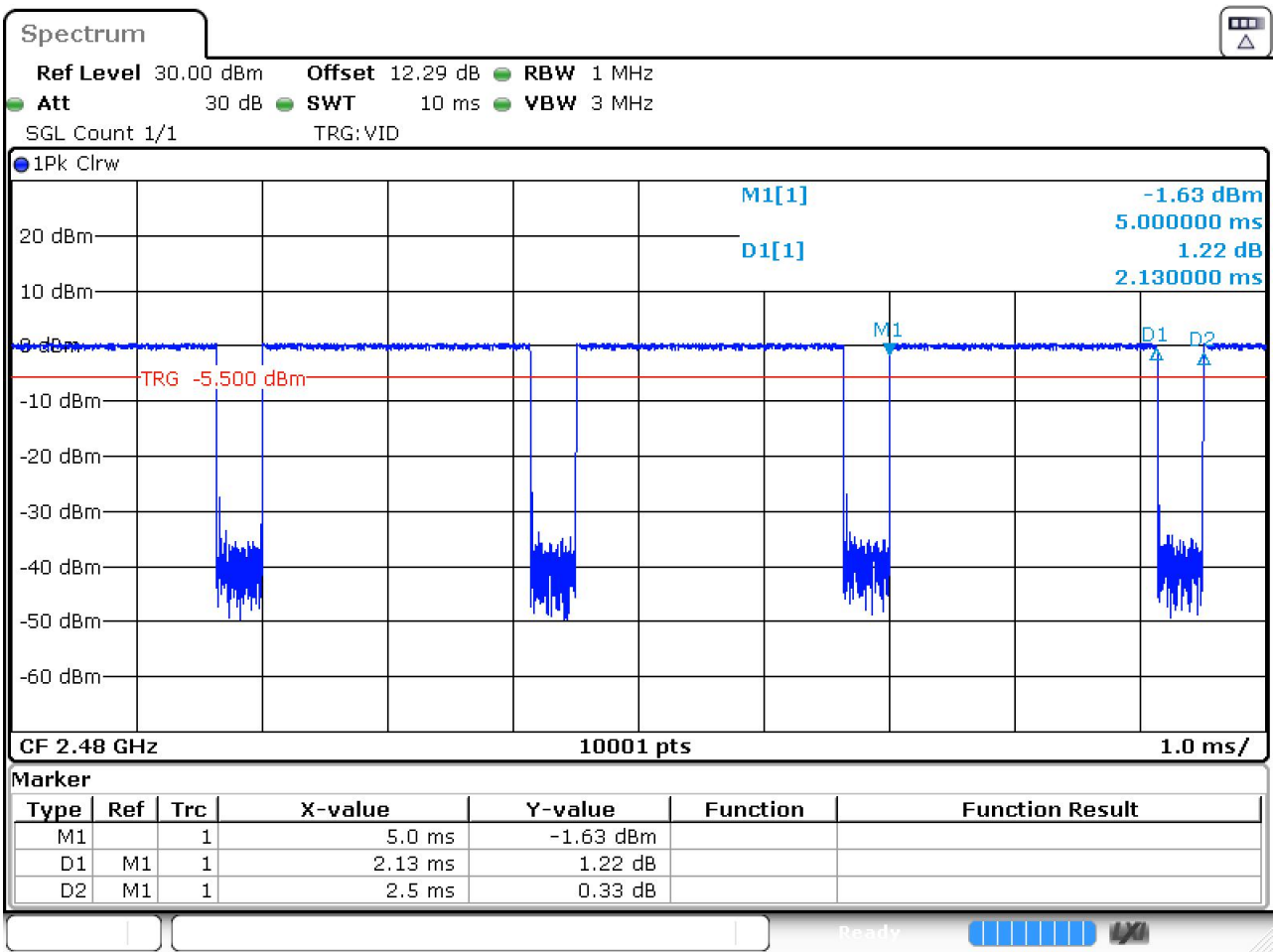
Test Result

TestMode	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/Ton time(kHz)
BLE_1M	2402	2.13	2.50	85.20	0.70	0.47
BLE_1M	2440	2.13	2.51	84.86	0.71	0.47
BLE_1M	2480	2.13	2.50	85.20	0.70	0.47

Test Graphs



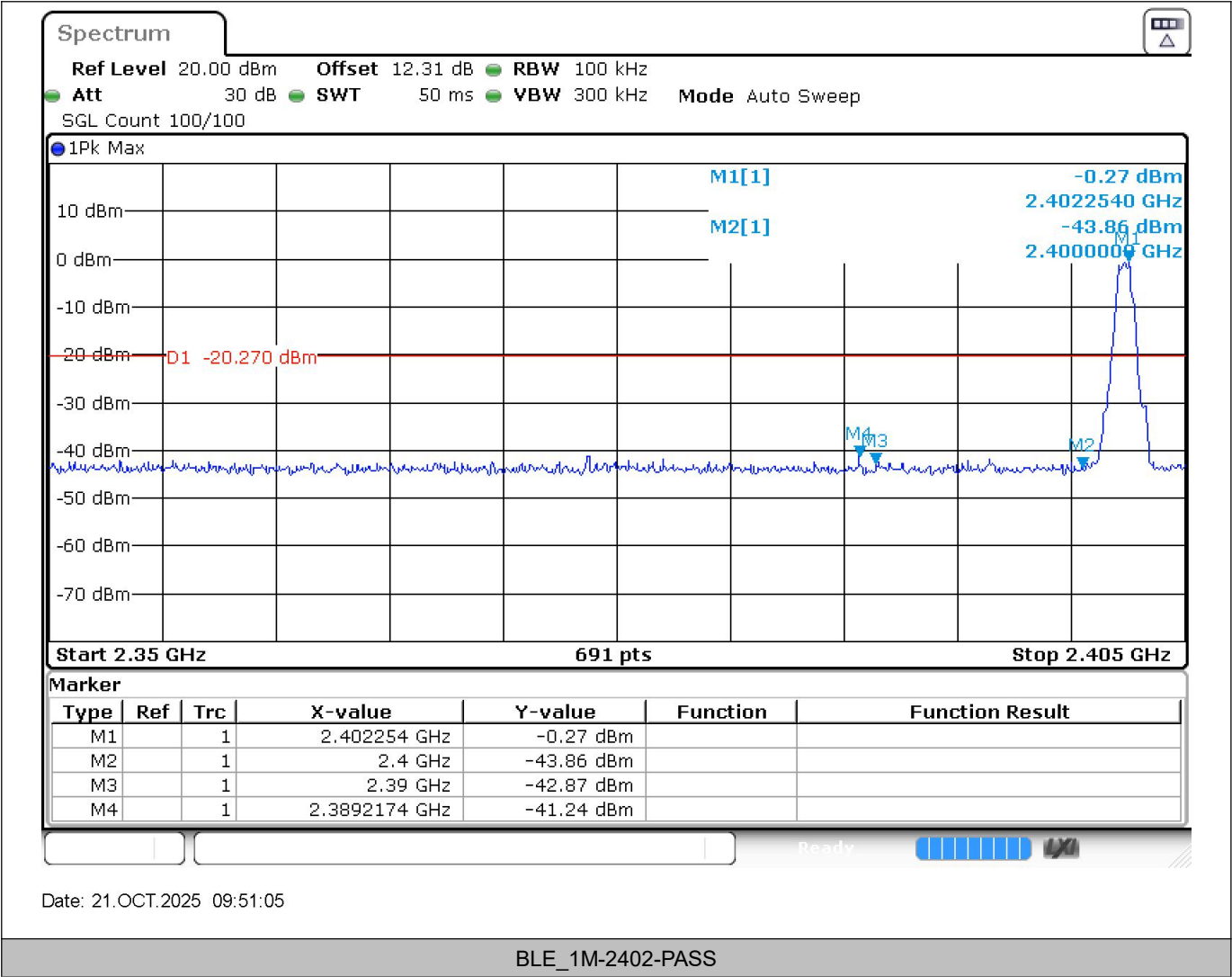


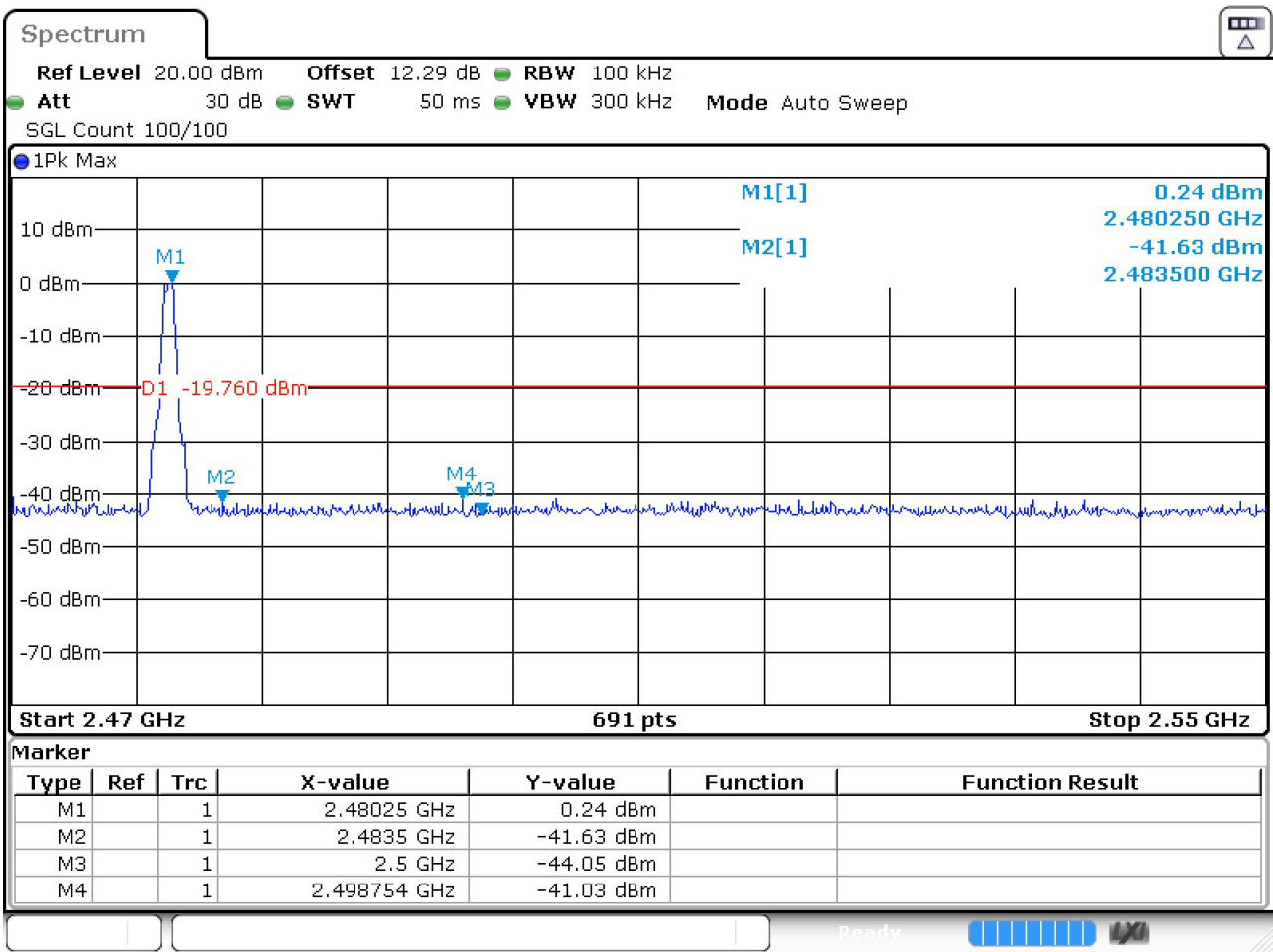


Date: 21.OCT.2025 09:53:31

Appendix F: Band edge and Spurious Emission(Conducted)

Test Graphs

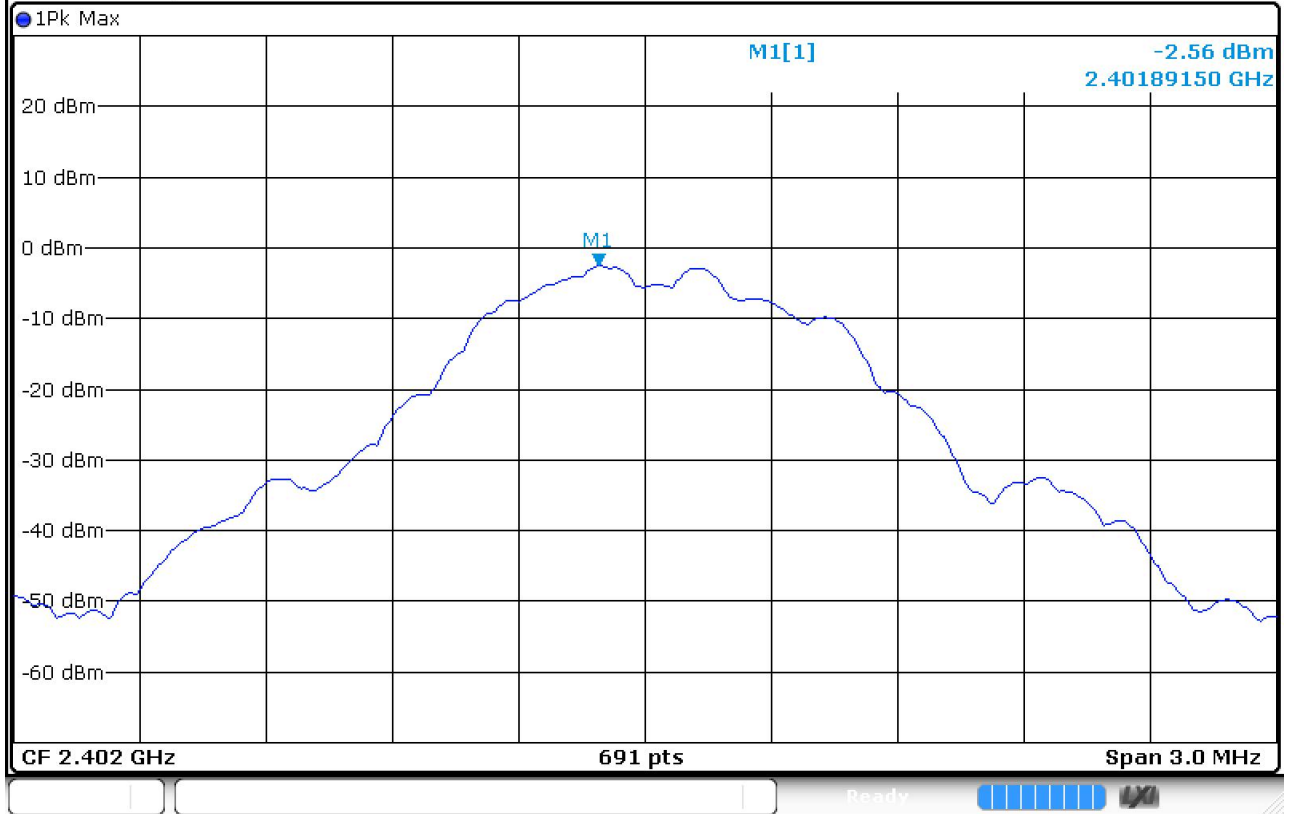




Spectrum



Ref Level 30.00 dBm Offset 12.31 dB RBW 100 kHz
Att 30 dB SWT 19 μ s VBW 300 kHz Mode Auto FFT
SGL Count 10/10



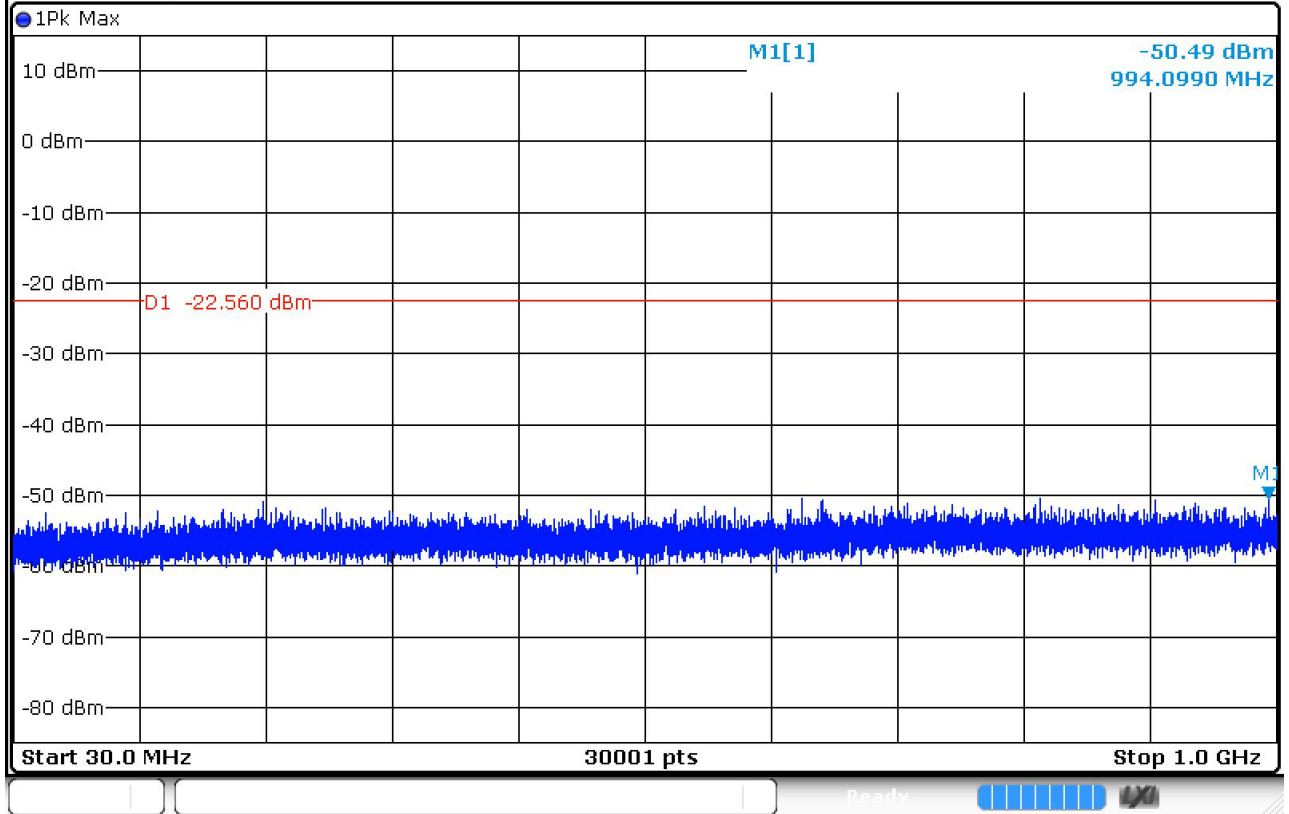
Date: 21.OCT.2025 09:51:08

BLE_1M-2402-0~Reference-PASS

Spectrum



Ref Level 15.00 dBm Offset 12.31 dB RBW 100 kHz
Att 20 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep
SGL Count 30/30



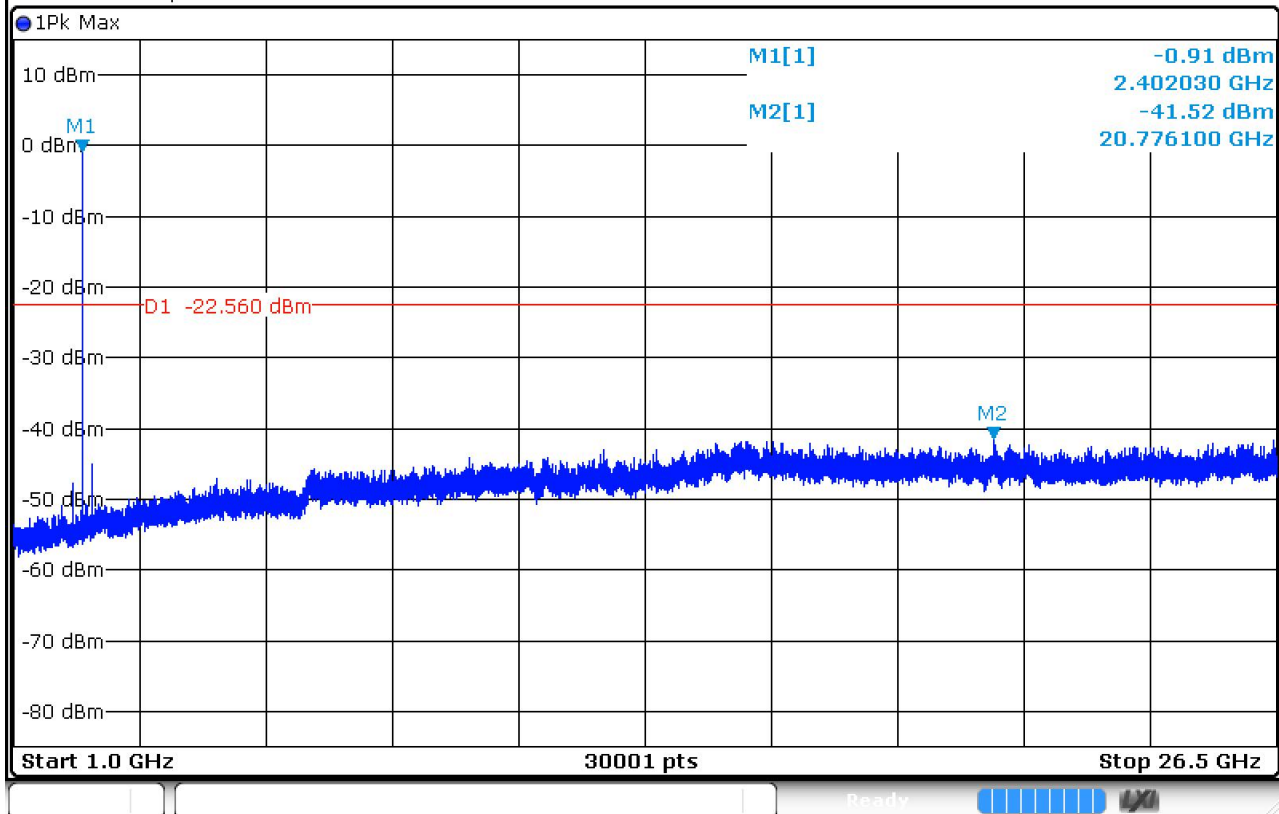
Date: 21.OCT.2025 09:51:13

BLE_1M-2402-30~1000-PASS

Spectrum



Ref Level 15.00 dBm Offset 12.31 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
SGL Count 30/30



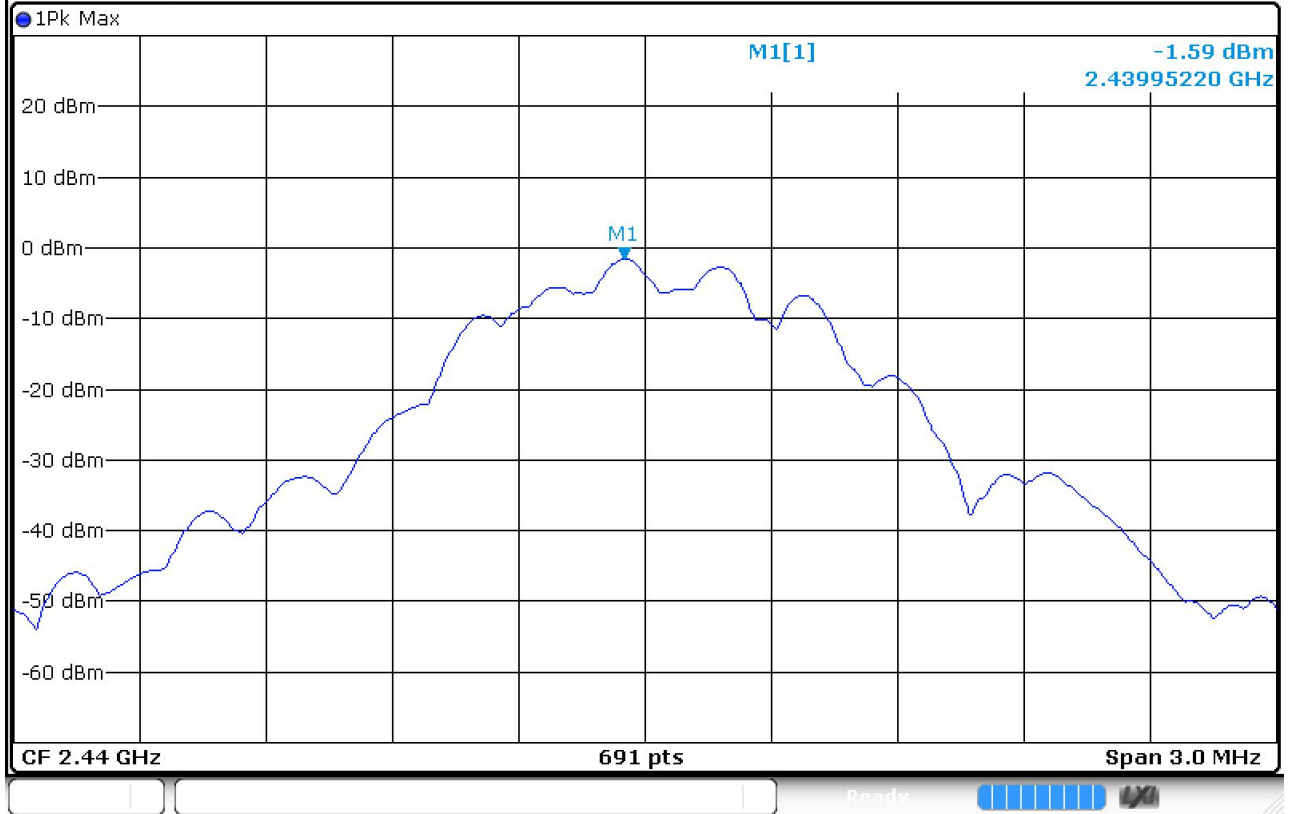
Date: 21.OCT.2025 09:51:41

BLE_1M-2402-1000~26500-PASS

Spectrum



Ref Level 30.00 dBm Offset 12.30 dB RBW 100 kHz
Att 30 dB SWT 19 μ s VBW 300 kHz Mode Auto FFT
SGL Count 10/10



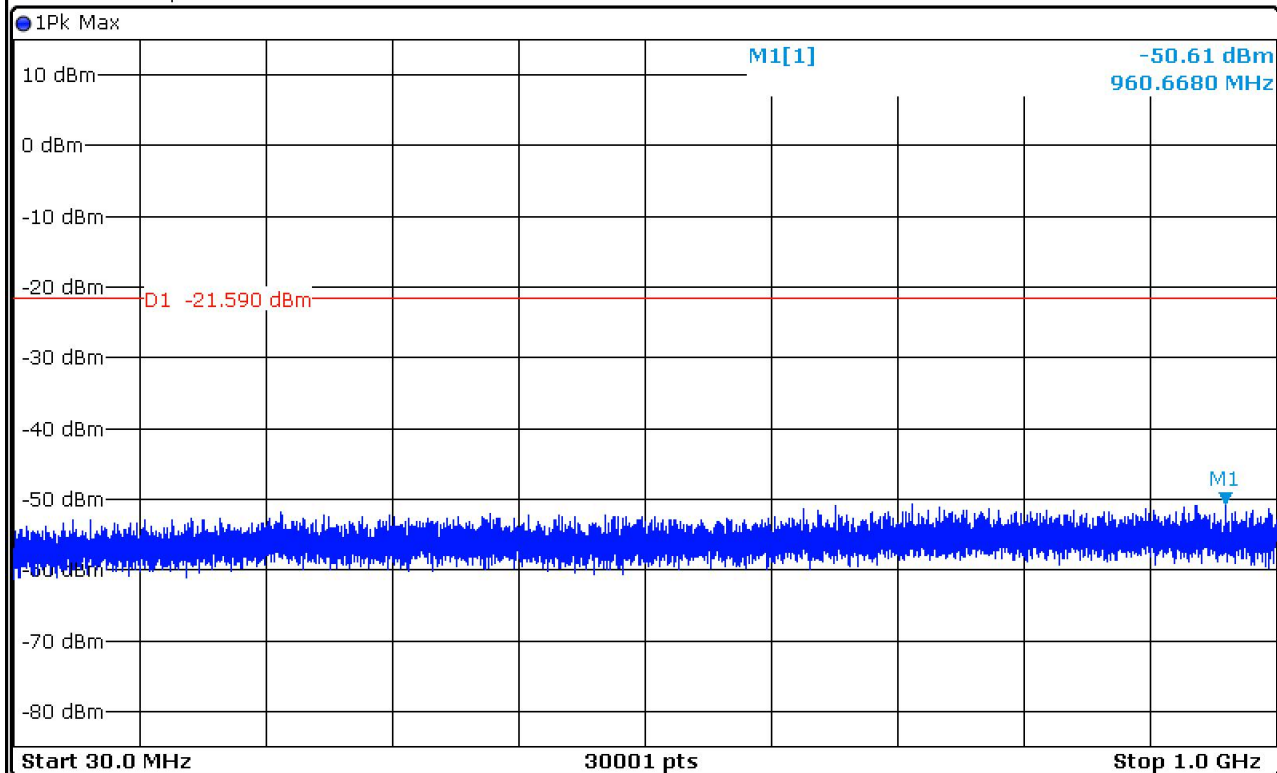
Date: 21.OCT.2025 09:52:28

BLE_1M-2440-0~Reference-PASS

Spectrum



Ref Level 15.00 dBm Offset 12.30 dB RBW 100 kHz
Att 20 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep
SGL Count 30/30



Date: 21.OCT.2025 09:52:34

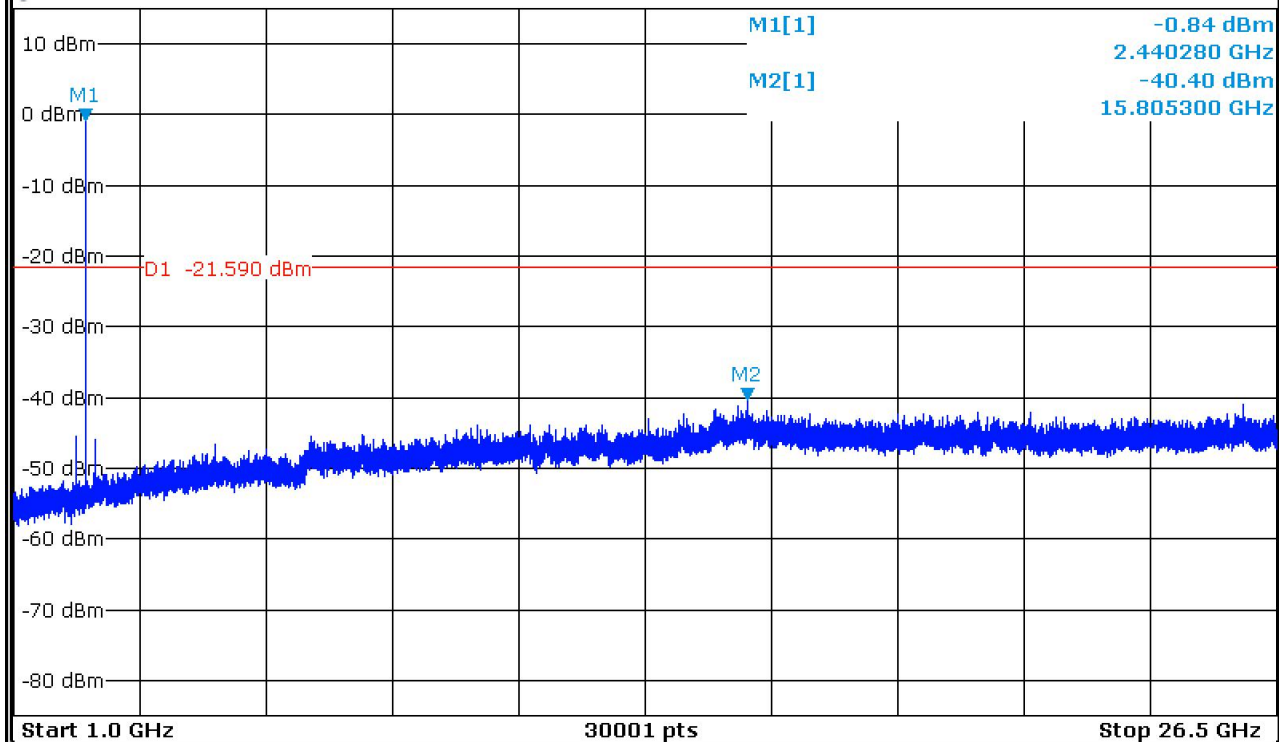
BLE_1M-2440-30~1000-PASS

Spectrum



Ref Level 15.00 dBm Offset 12.30 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
SGL Count 30/30

1Pk Max



Ready

Date: 21.OCT.2025 09:53:01

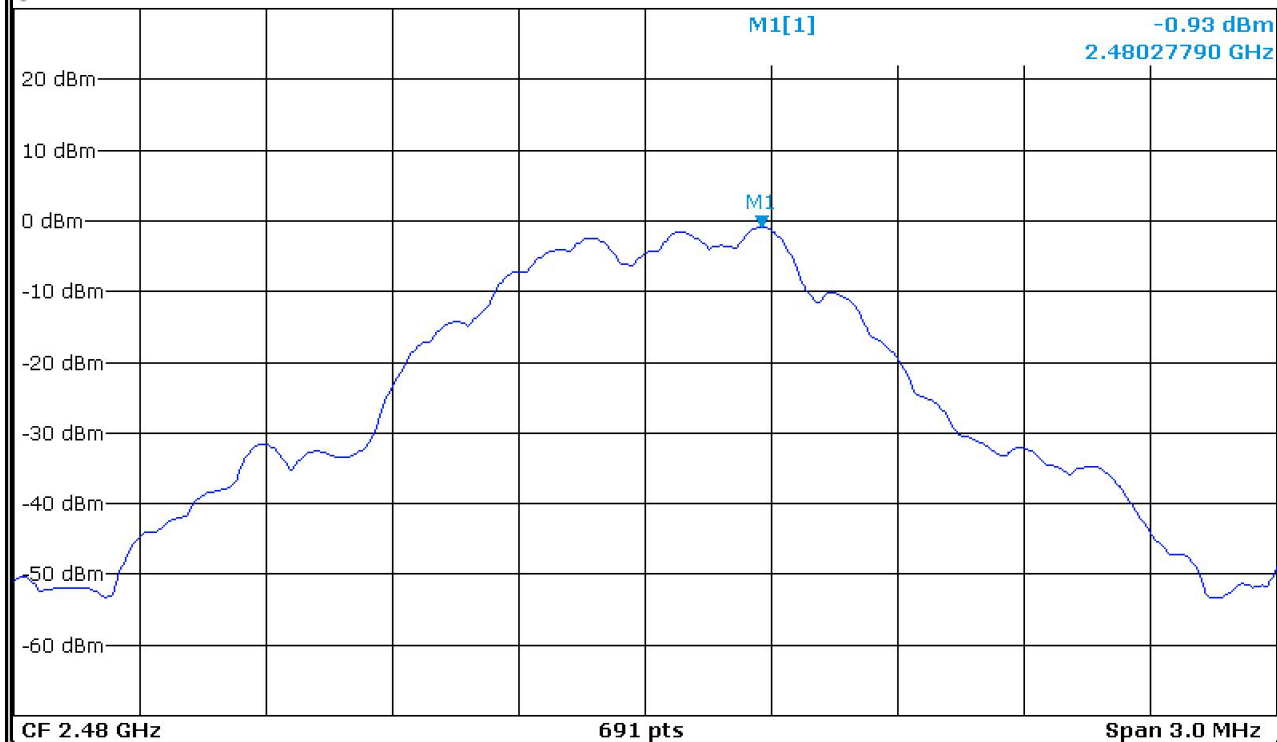
BLE_1M-2440-1000~26500-PASS

Spectrum



Ref Level 30.00 dBm Offset 12.29 dB RBW 100 kHz
Att 30 dB SWT 19 μ s VBW 300 kHz Mode Auto FFT
SGL Count 10/10

1Pk Max



Ready

Date: 21.OCT.2025 09:54:01

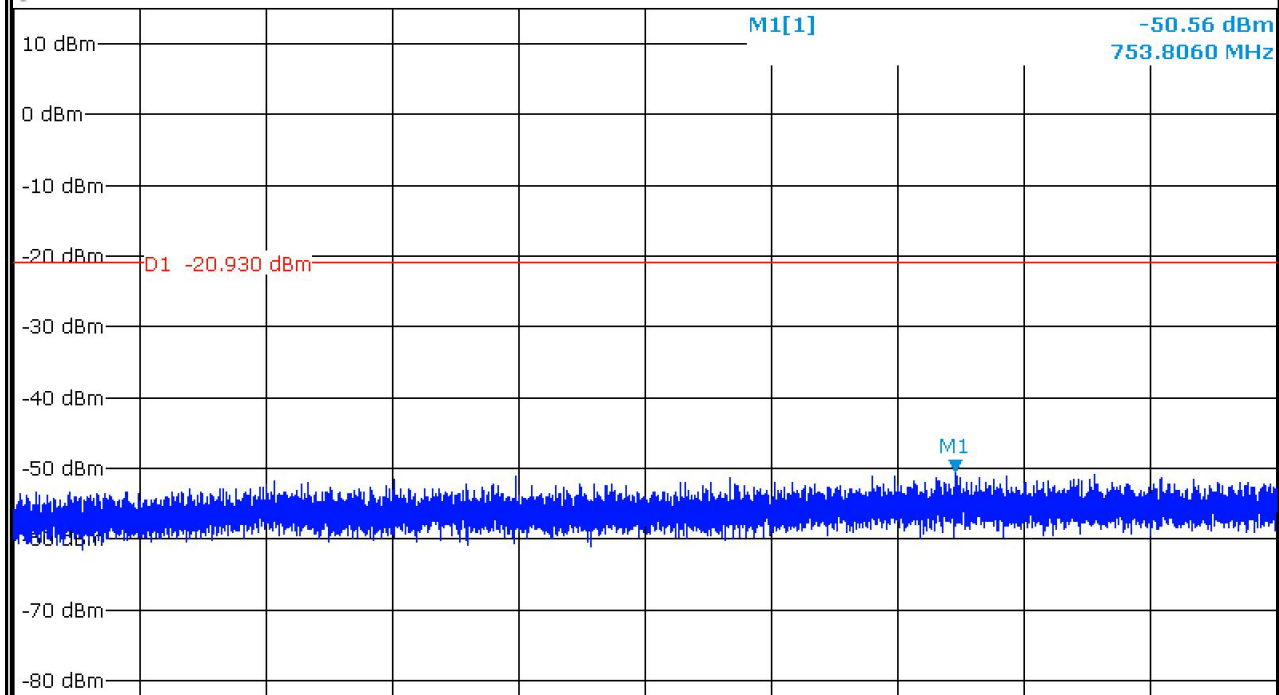
BLE_1M-2480-0~Reference-PASS

Spectrum



Ref Level 15.00 dBm Offset 12.29 dB RBW 100 kHz
Att 20 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep
SGL Count 30/30

1Pk Max



Start 30.0 MHz

30001 pts

Stop 1.0 GHz

Ready



Date: 21.OCT.2025 09:54:07

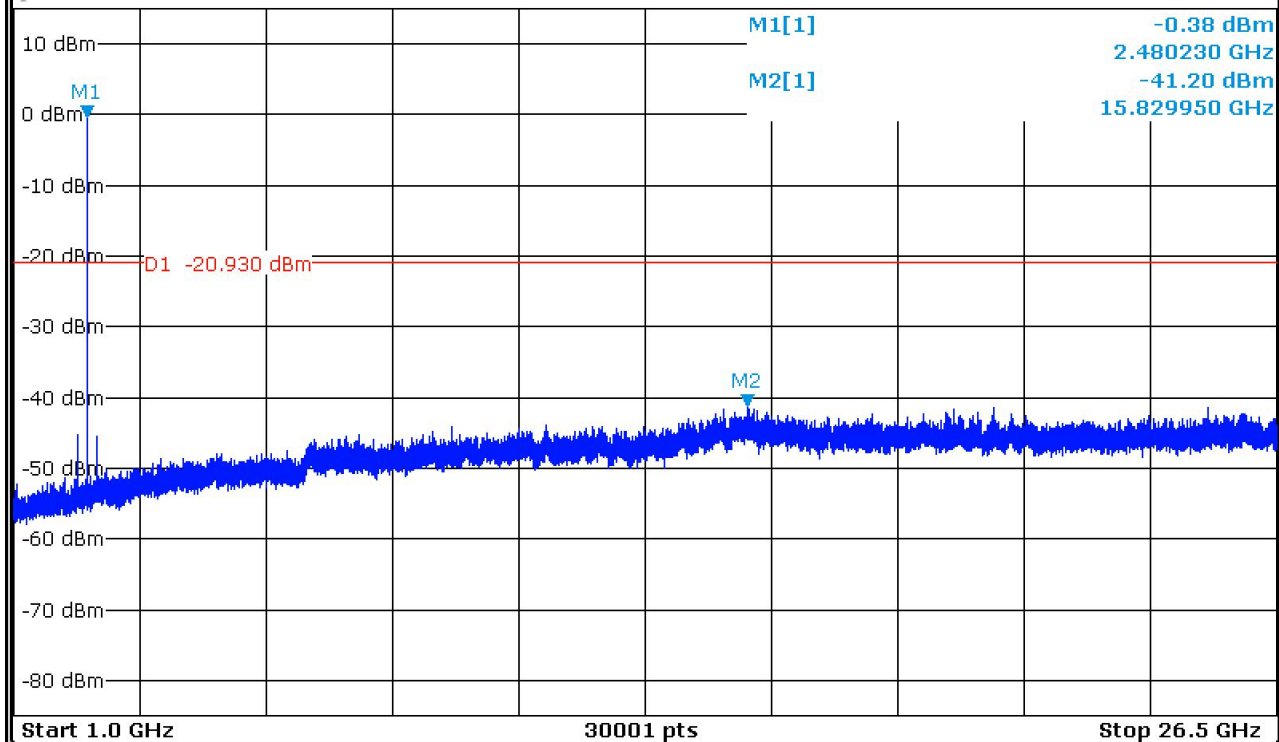
BLE_1M-2480-30~1000-PASS

Spectrum



Ref Level 15.00 dBm Offset 12.29 dB RBW 100 kHz
Att 20 dB SWT 255 ms VBW 300 kHz Mode Auto Sweep
SGL Count 30/30

1Pk Max



Date: 21.OCT.2025 09:54:34

BLE_1M-2480-1000~26500-PASS

-----End of Report-----