

# APPENDIX REPORT

|                 |                 |                     |               |
|-----------------|-----------------|---------------------|---------------|
| Project No.     | SHT2411052304W  | Radio Specification | Bluetooth BLE |
| Test sample No. | YPHT24110523003 | Model No.           | ABX00112      |
| Start test date | 2025-11-17      | Finish date         | 2025-11-18    |
| Temperature     | 23.1℃           | Humidity            | 51%           |
| Test Engineer   | Xiangyu Wei     | Auditor             | Xiaodong Zhao |

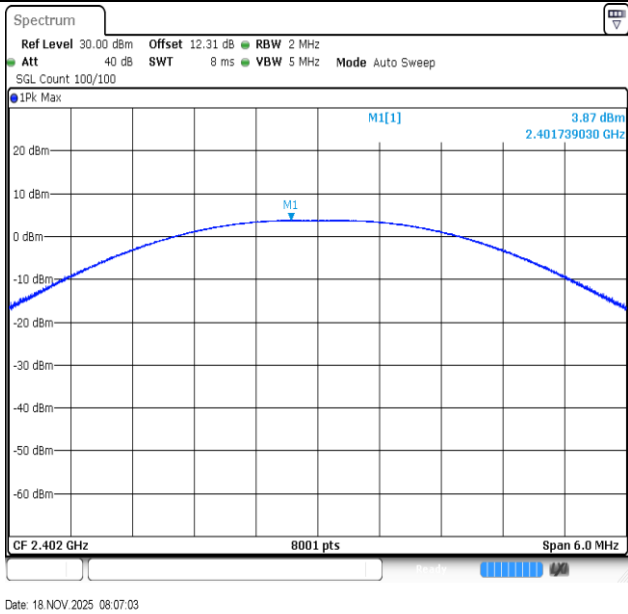
| Appendix clause | Test item                                  | Result |
|-----------------|--------------------------------------------|--------|
| A               | Peak Output Power                          | PASS   |
| B               | Power Spectral Density                     | PASS   |
| C               | 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

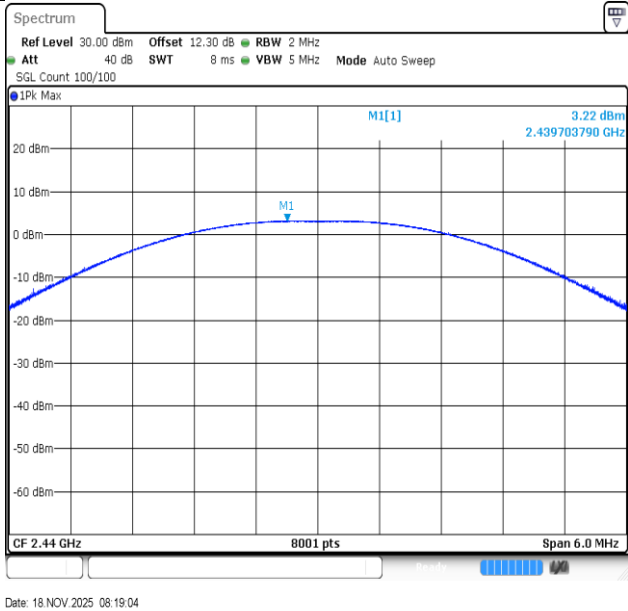
## Test Result Peak

| TestMode | Frequency[MHz] | Conducted Peak Powert[dBm] | Conducted Limit[dBm] | Verdict |
|----------|----------------|----------------------------|----------------------|---------|
| BLE_1M   | 2402           | 3.87                       | ≤30                  | PASS    |
| BLE_1M   | 2440           | 3.22                       | ≤30                  | PASS    |
| BLE_1M   | 2480           | 2.74                       | ≤30                  | PASS    |
| BLE_2M   | 2402           | 3.75                       | ≤30                  | PASS    |
| BLE_2M   | 2440           | 3.18                       | ≤30                  | PASS    |
| BLE_2M   | 2480           | 2.75                       | ≤30                  | PASS    |

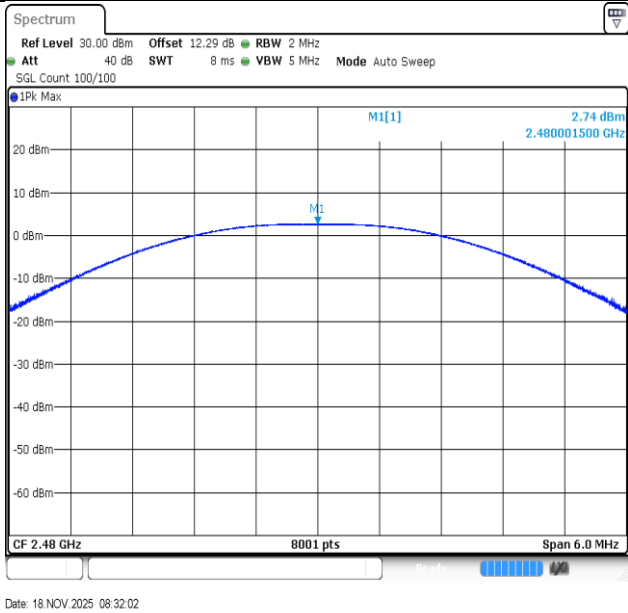
Test Graphs Peak



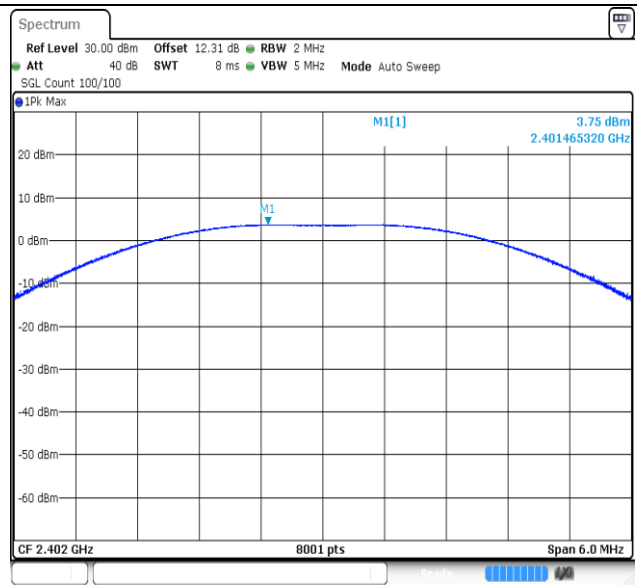
BLE\_1M-2402-PASS



BLE\_1M-2440-PASS

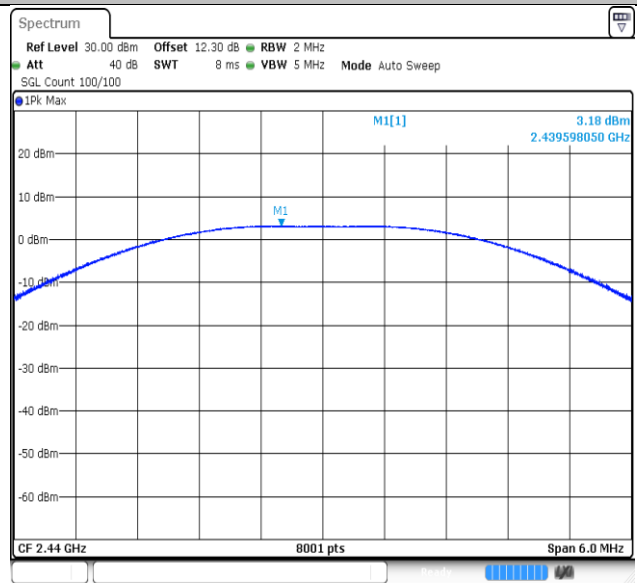


BLE\_1M-2480-PASS



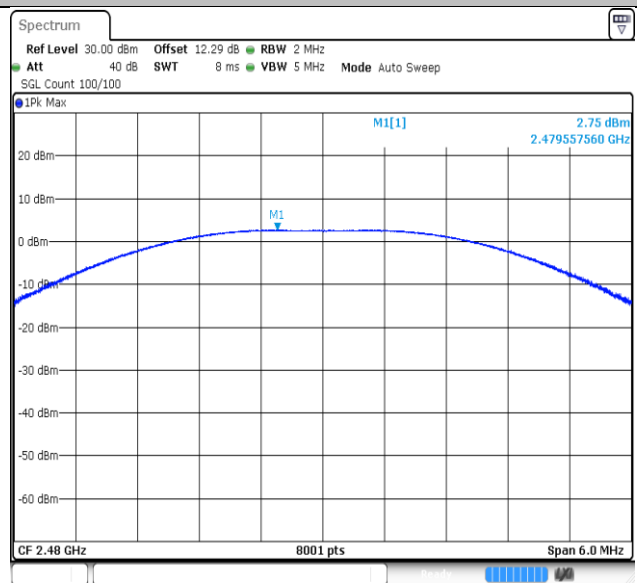
Date: 18 NOV 2025 08:44:30

### BLE\_2M-2402-PASS



Date: 18 NOV 2025 08:46:50

### BLE\_2M-2440-PASS



Date: 18 NOV 2025 08:54:45

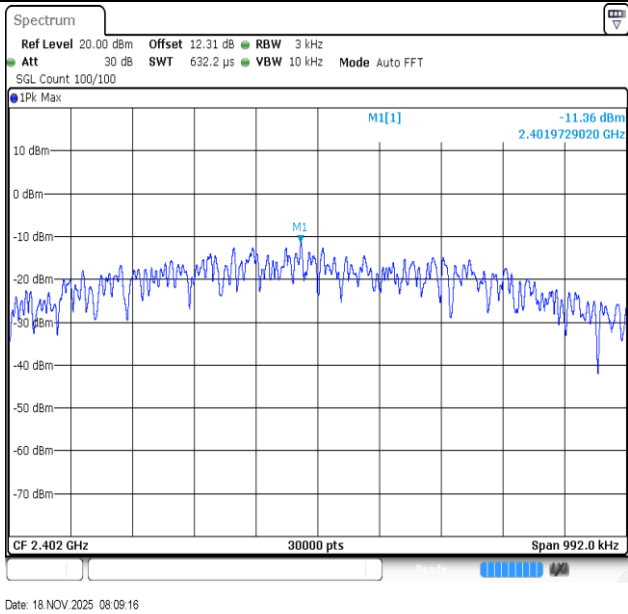
### BLE\_2M-2480-PASS

# Appendix B: Power Spectral Density

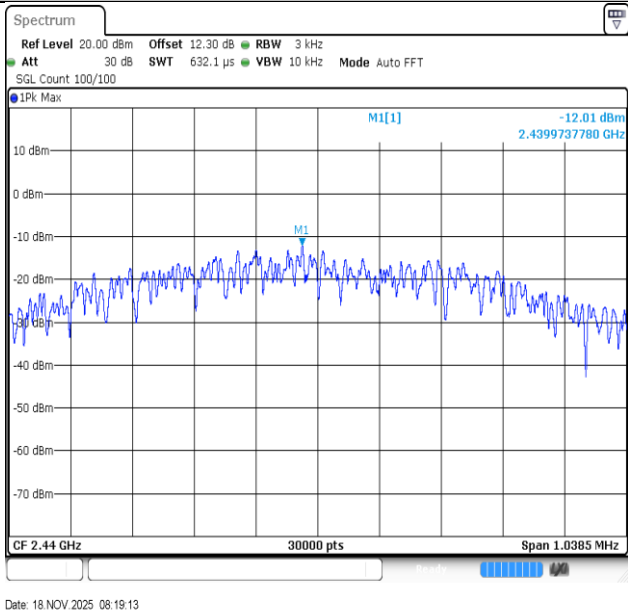
## Test Result

| TestMode | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|----------------|------------------|-----------------|---------|
| BLE_1M   | 2402           | -11.36           | ≤8.00           | PASS    |
| BLE_1M   | 2440           | -12.01           | ≤8.00           | PASS    |
| BLE_1M   | 2480           | -12.53           | ≤8.00           | PASS    |
| BLE_2M   | 2402           | -12.37           | ≤8.00           | PASS    |
| BLE_2M   | 2440           | -13.17           | ≤8.00           | PASS    |
| BLE_2M   | 2480           | -13.79           | ≤8.00           | PASS    |

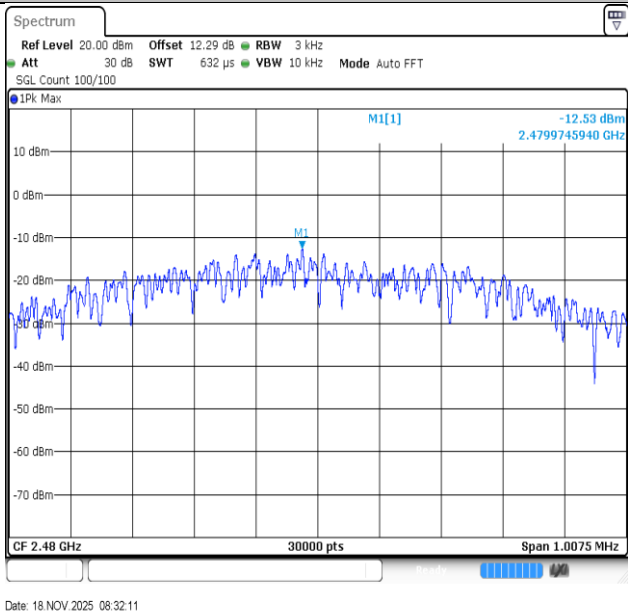
Test Graphs



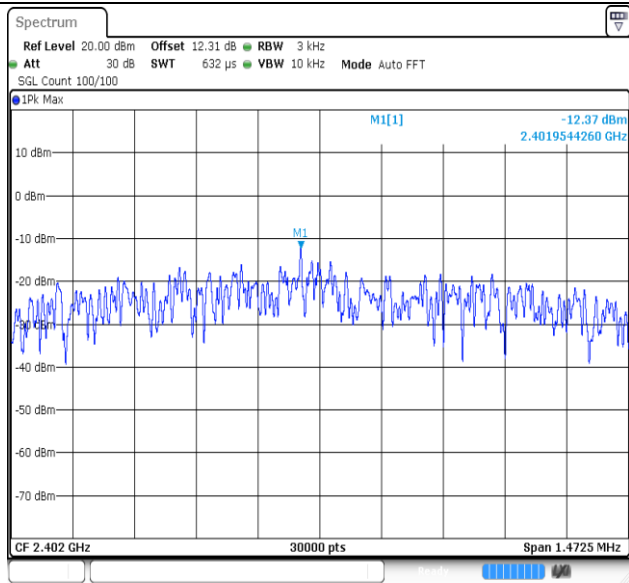
BLE\_1M-2402-PASS



BLE\_1M-2440-PASS

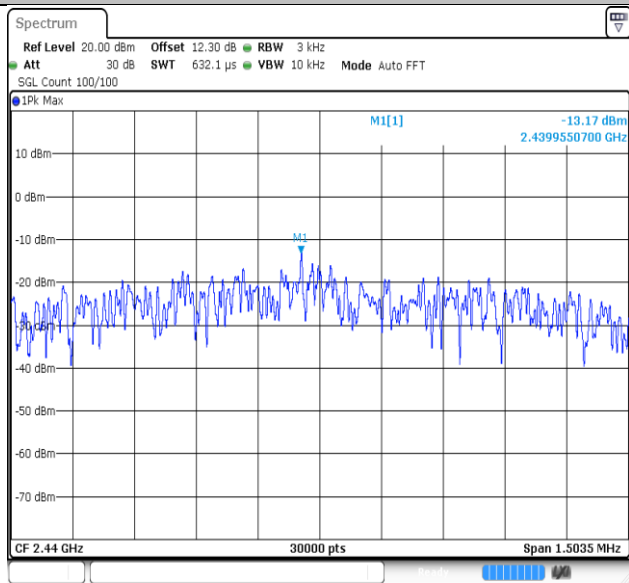


BLE\_1M-2480-PASS



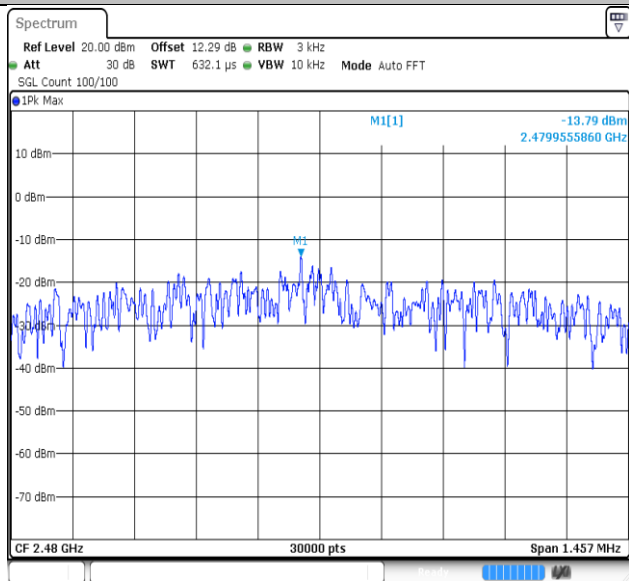
Date: 18 NOV 2025 08:44:38

### BLE\_2M-2402-PASS



Date: 18 NOV 2025 08:46:58

### BLE\_2M-2440-PASS



Date: 18 NOV 2025 08:54:53

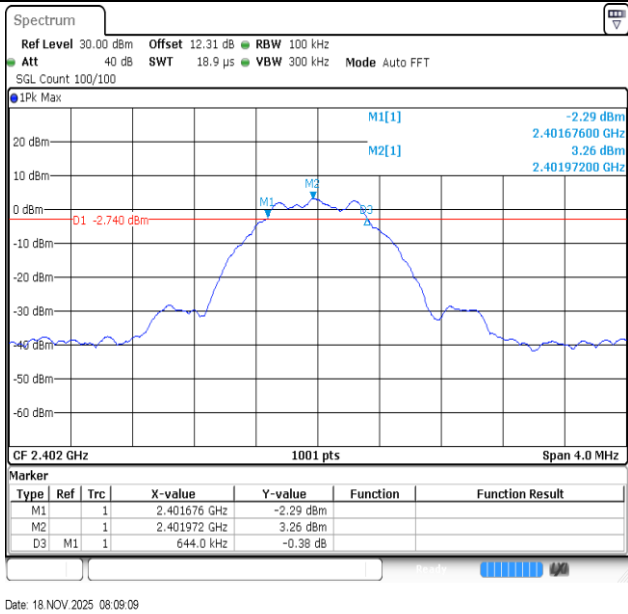
### BLE\_2M-2480-PASS

# Appendix C: 6db Bandwidth

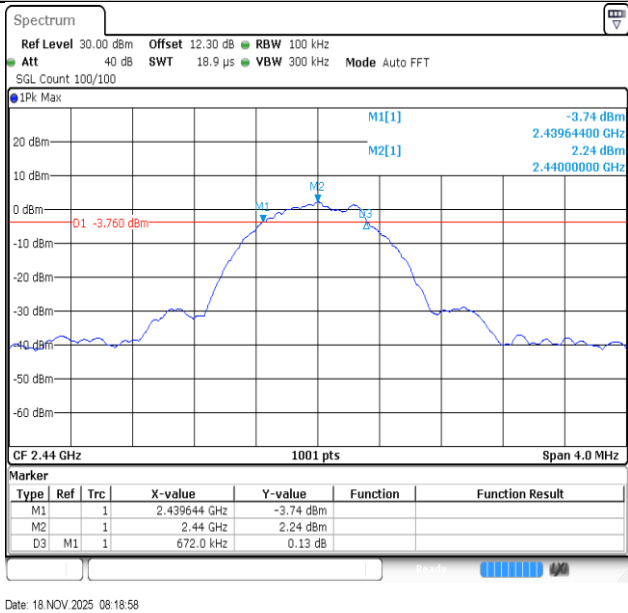
## Test Result

| TestMode | Frequency[MHz] | 6db Bandwidth [MHz] | Limit[MHz] | Verdict |
|----------|----------------|---------------------|------------|---------|
| BLE_1M   | 2402           | 0.64                | 0.5        | PASS    |
| BLE_1M   | 2440           | 0.67                | 0.5        | PASS    |
| BLE_1M   | 2480           | 0.65                | 0.5        | PASS    |
| BLE_2M   | 2402           | 0.95                | 0.5        | PASS    |
| BLE_2M   | 2440           | 0.97                | 0.5        | PASS    |
| BLE_2M   | 2480           | 0.94                | 0.5        | PASS    |

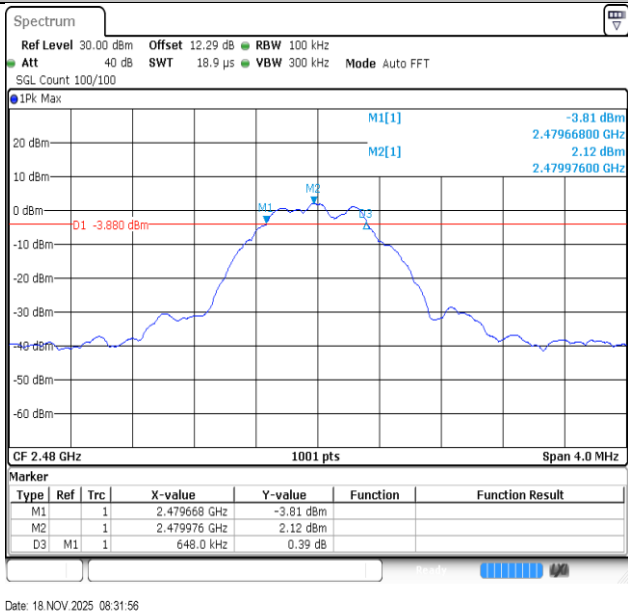
Test Graphs



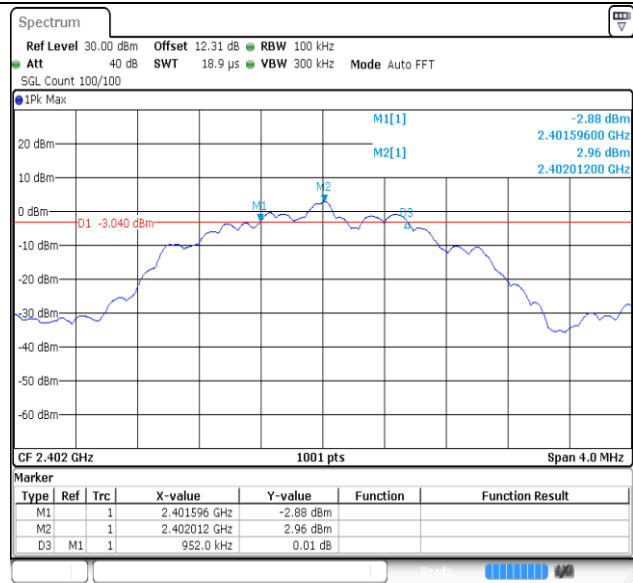
BLE\_1M-2402-PASS



BLE\_1M-2440-PASS

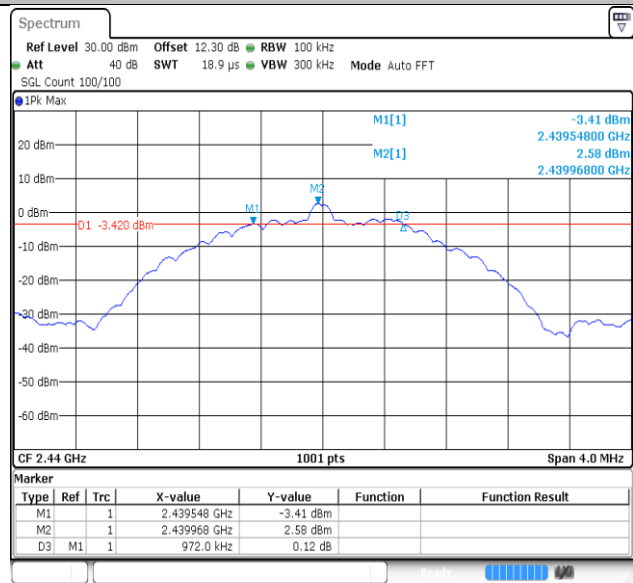


BLE\_1M-2480-PASS



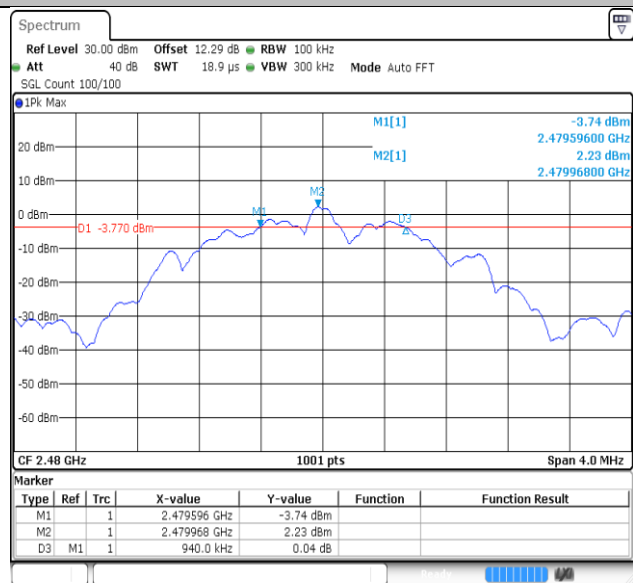
Date: 18 NOV 2025 08:44:23

### BLE\_2M-2402-PASS



Date: 18 NOV 2025 08:46:44

### BLE\_2M-2440-PASS



Date: 18 NOV 2025 08:54:39

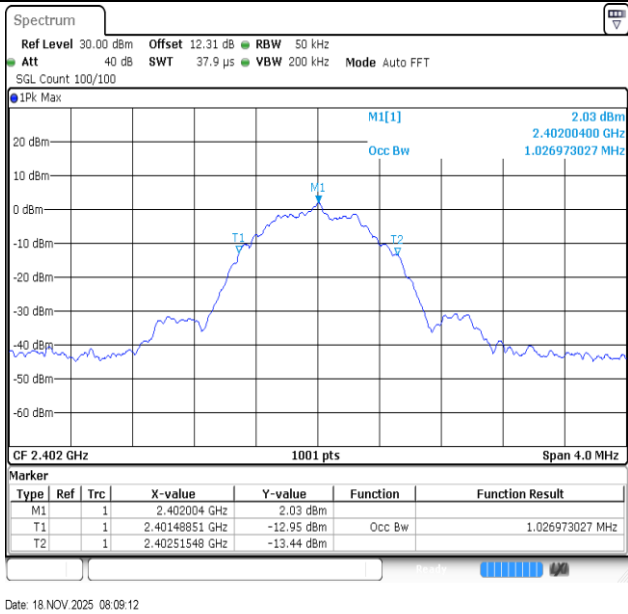
### BLE\_2M-2480-PASS

Appendix D: 99% Occupied Bandwidth

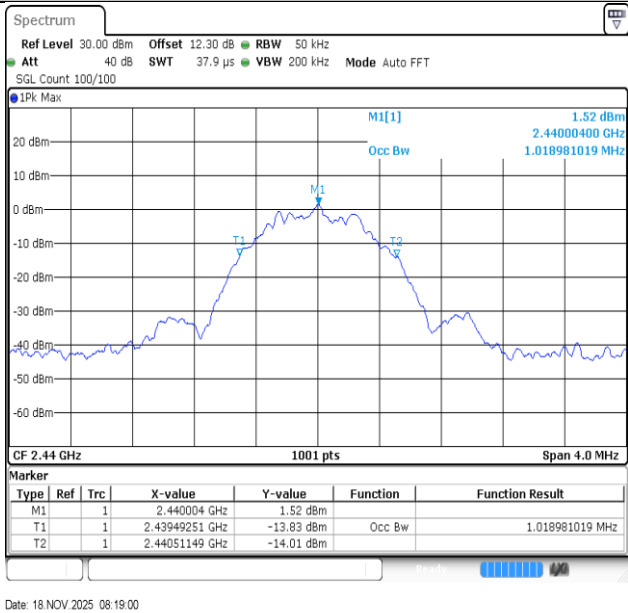
Test Result

| TestMode | Frequency[MHz] | 99% Occupied Bandwidth [MHz] | Limit[MHz] | Verdict |
|----------|----------------|------------------------------|------------|---------|
| BLE_1M   | 2402           | 1.0270                       | ---        | ---     |
| BLE_1M   | 2440           | 1.0190                       | ---        | ---     |
| BLE_1M   | 2480           | 1.0270                       | ---        | ---     |
| BLE_2M   | 2402           | 2.0619                       | ---        | ---     |
| BLE_2M   | 2440           | 2.0939                       | ---        | ---     |
| BLE_2M   | 2480           | 2.0500                       | ---        | ---     |

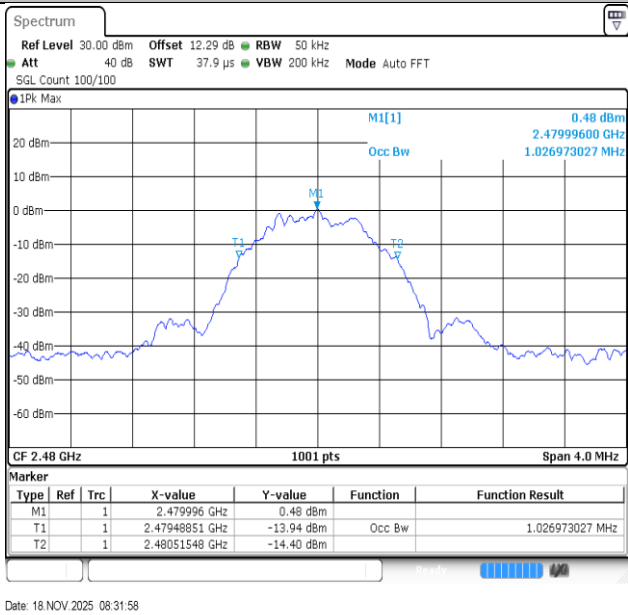
Test Graphs



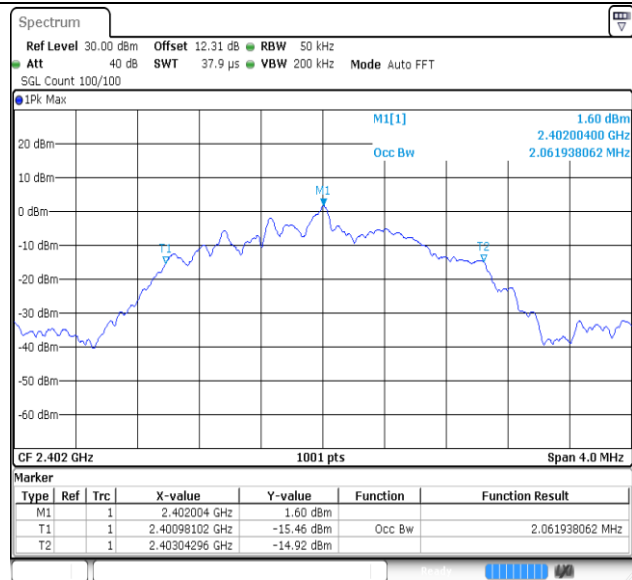
BLE\_1M-2402



BLE\_1M-2440

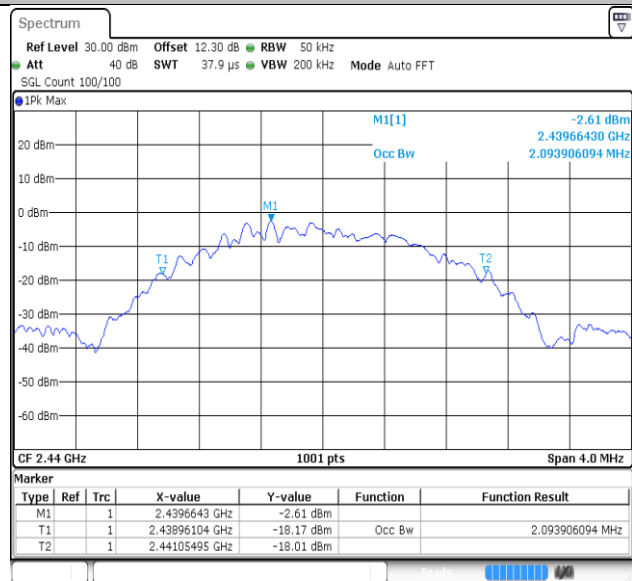


BLE\_1M-2480



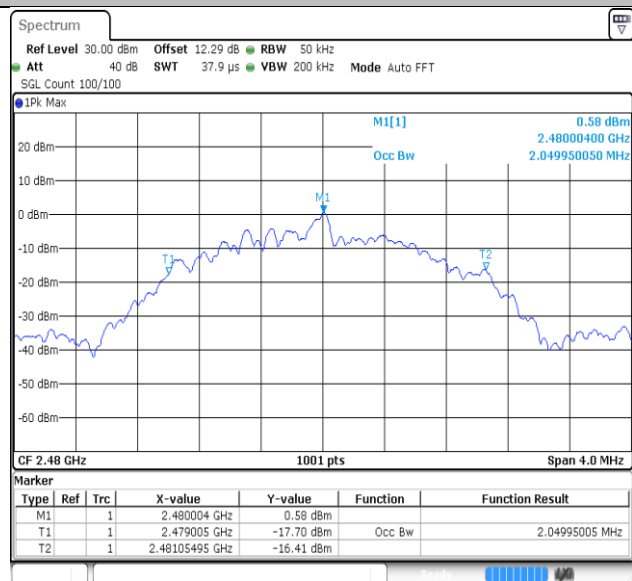
Date: 18 NOV 2025 08:44:26

### BLE\_2M-2402



Date: 18 NOV 2025 08:46:46

### BLE\_2M-2440



Date: 18 NOV 2025 08:54:41

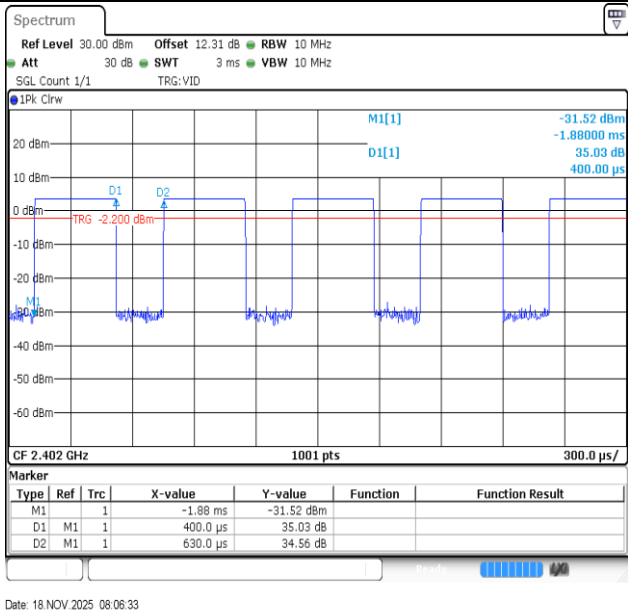
### BLE\_2M-2480

# Appendix E: Duty Cycle

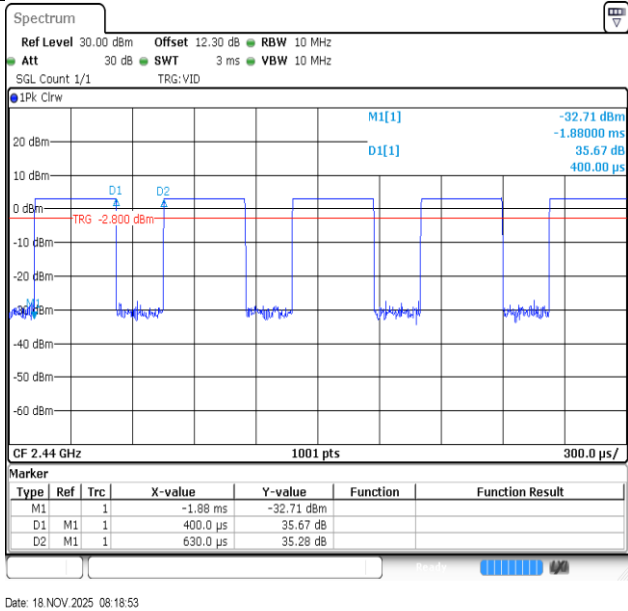
## Test Result

| TestMode | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] | 1/Ton time(kHz) |
|----------|----------------|-----------------|----------------|-------------------|--------------------------|-----------------|
| BLE_1M   | 2402           | 0.40            | 0.63           | 63.49             | 1.97                     | 2.50            |
| BLE_1M   | 2440           | 0.40            | 0.63           | 63.49             | 1.97                     | 2.50            |
| BLE_1M   | 2480           | 0.40            | 0.63           | 63.49             | 1.97                     | 2.50            |
| BLE_2M   | 2402           | 0.21            | 0.62           | 33.87             | 4.70                     | 4.76            |
| BLE_2M   | 2440           | 0.22            | 0.63           | 34.92             | 4.57                     | 4.55            |
| BLE_2M   | 2480           | 0.22            | 0.63           | 34.92             | 4.57                     | 4.55            |

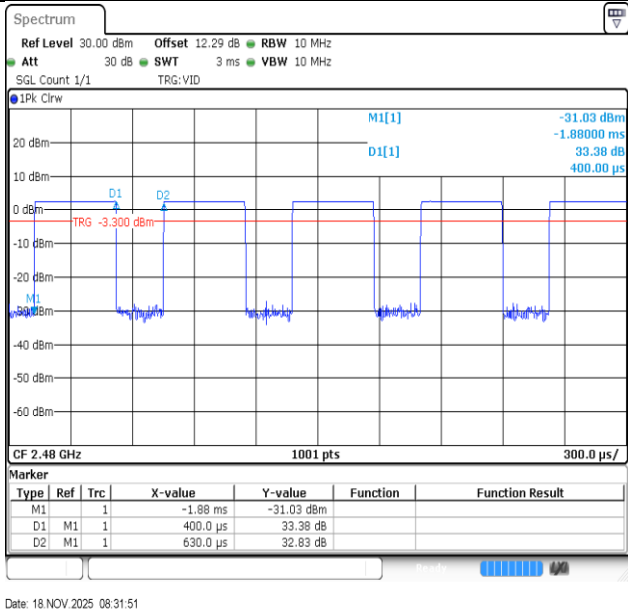
Test Graphs



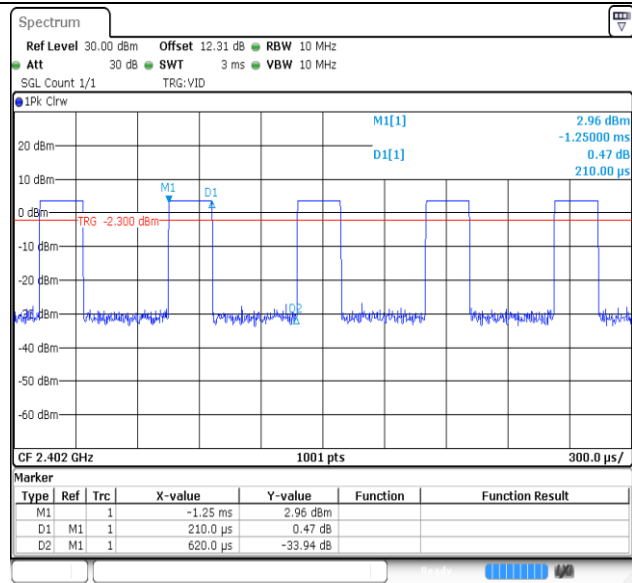
NTNV-BLE\_1M-2402



NTNV-BLE\_1M-2440

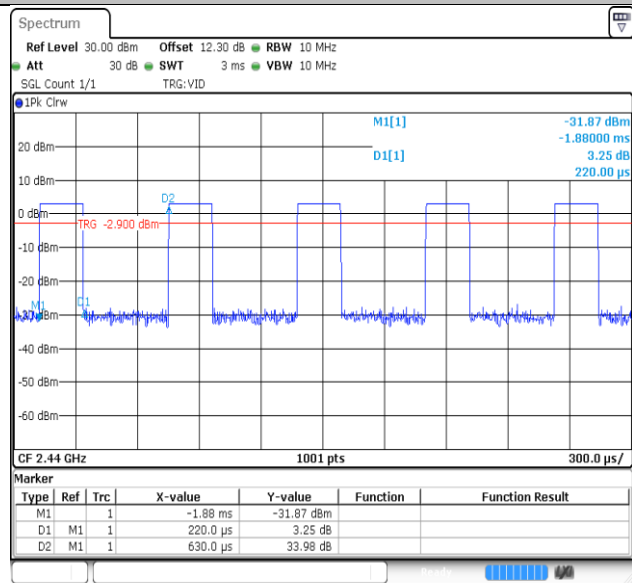


NTNV-BLE\_1M-2480



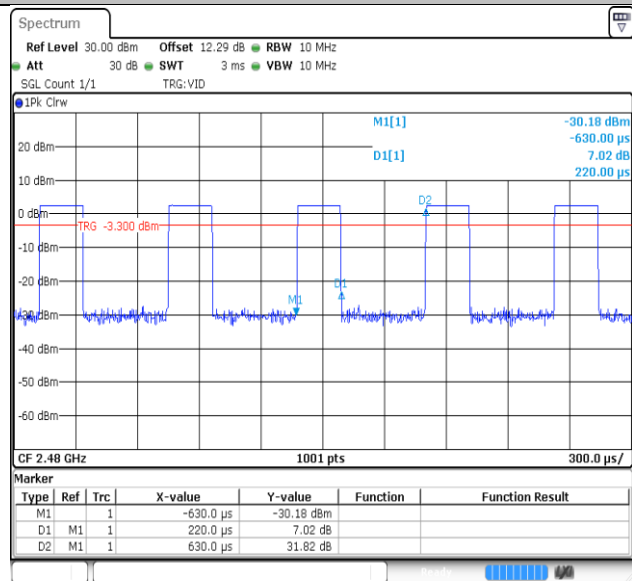
Date: 18 NOV 2025 08:44:19

### NTNV-BLE\_2M-2402



Date: 18 NOV 2025 08:46:39

### NTNV-BLE\_2M-2440

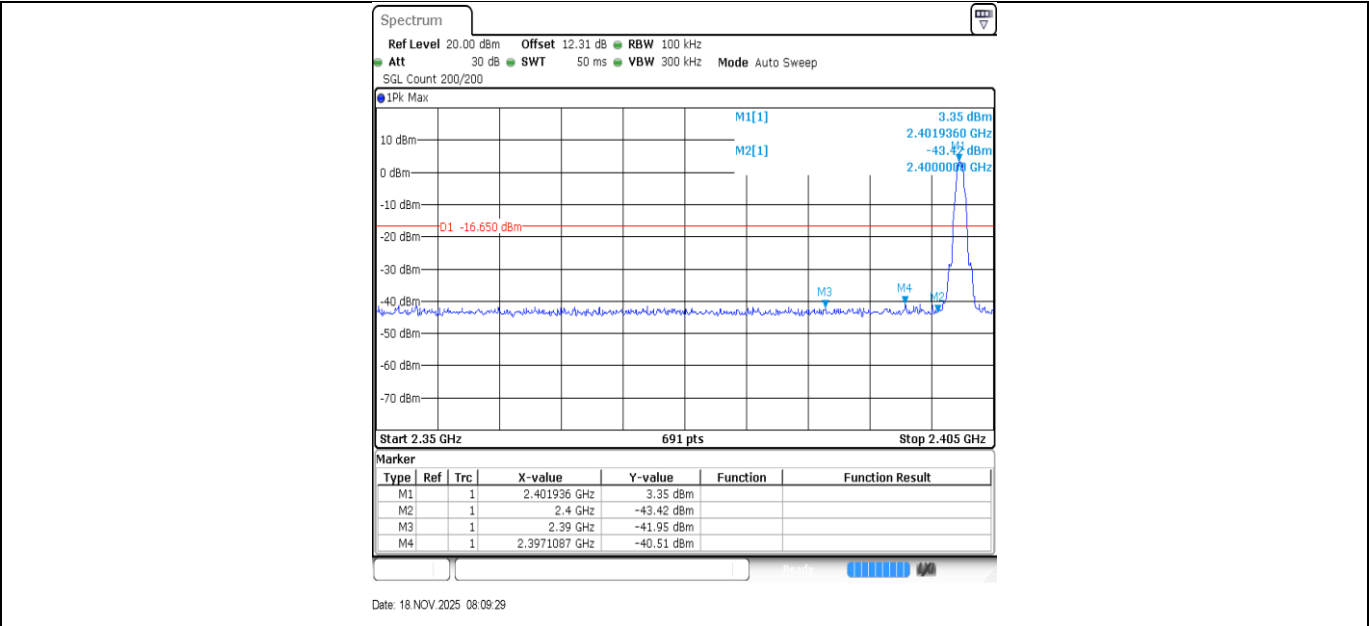


Date: 18 NOV 2025 08:54:34

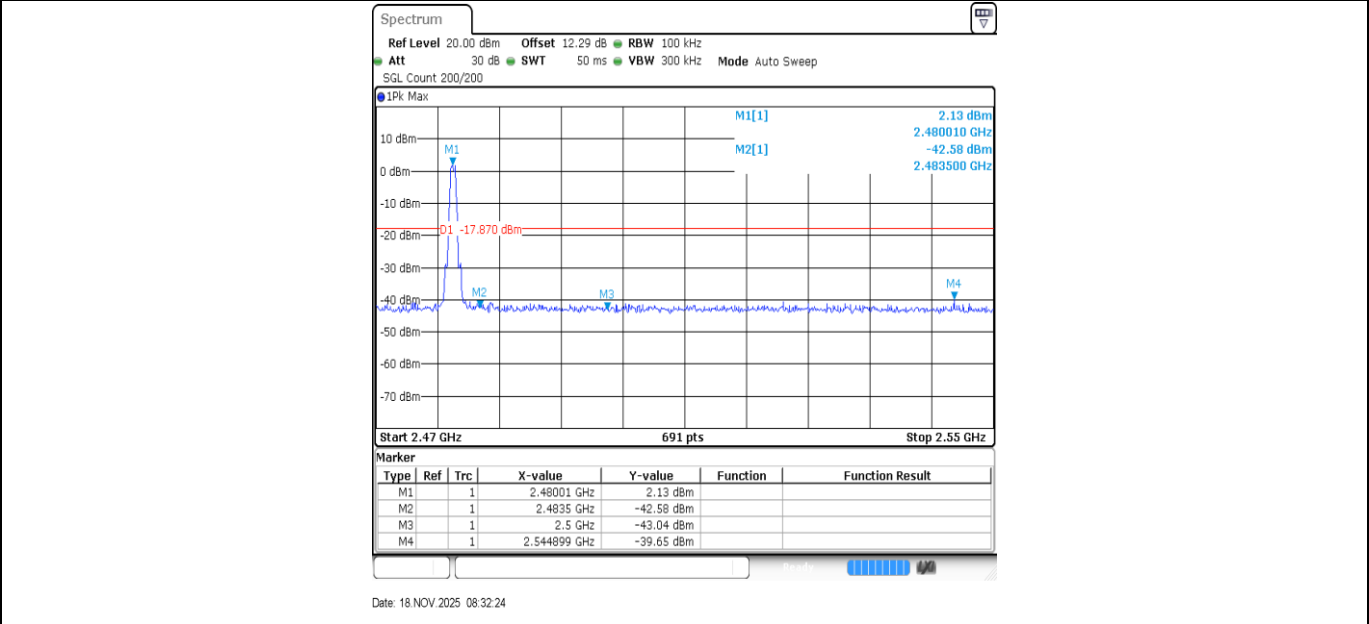
### NTNV-BLE\_2M-2480

Appendix F: Band edge and Spurious Emission(Conducted)

Test Graphs



BLE\_1M-2402-PASS

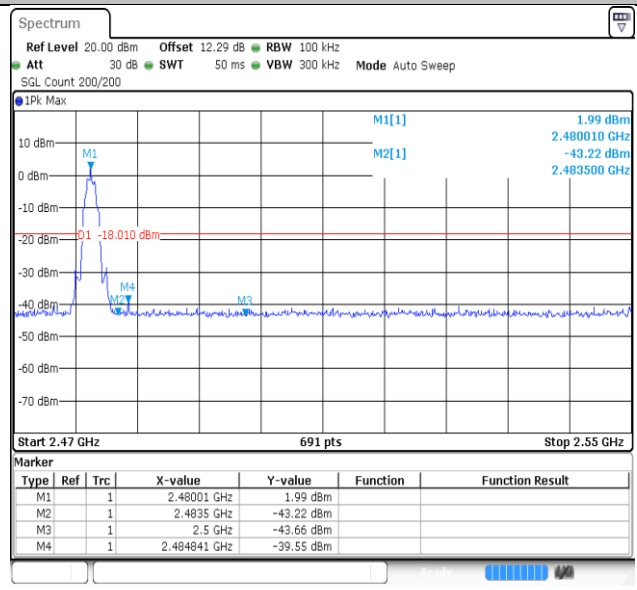


BLE\_1M-2480-PASS



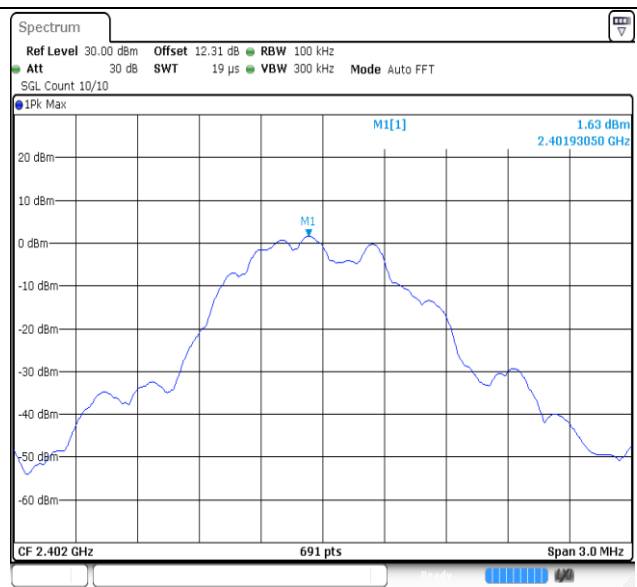
Date: 18 NOV 2025 08:44:52

### BLE\_2M-2402-PASS



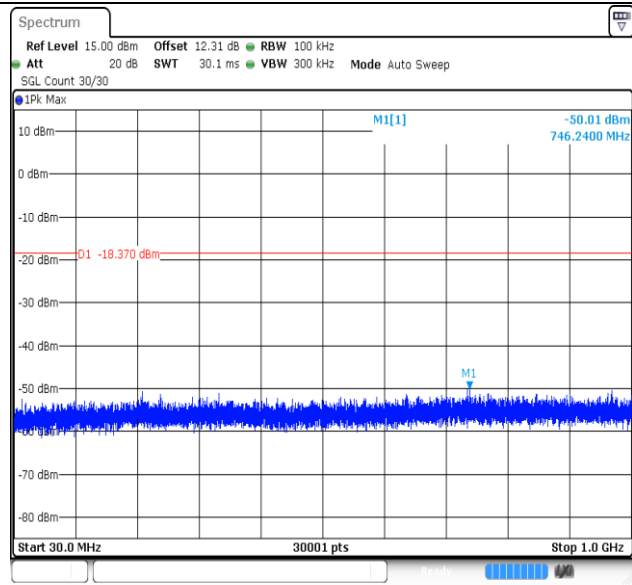
Date: 18 NOV 2025 08:55:06

### BLE\_2M-2480-PASS



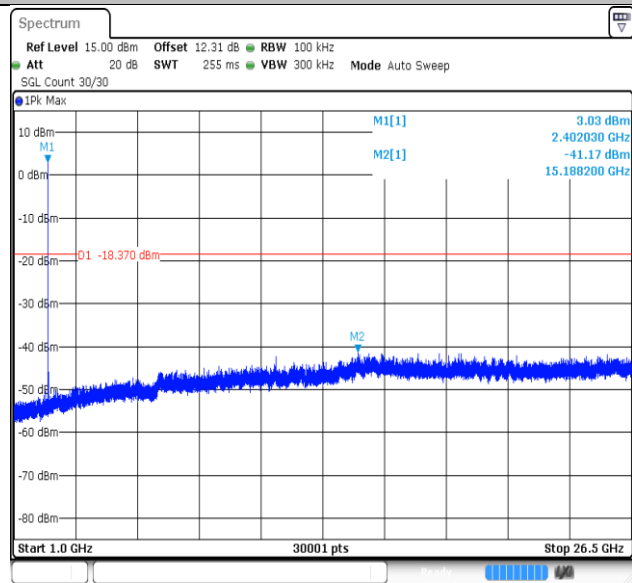
Date: 18 NOV 2025 08:09:32

### BLE\_1M-2402-0~Reference-PASS



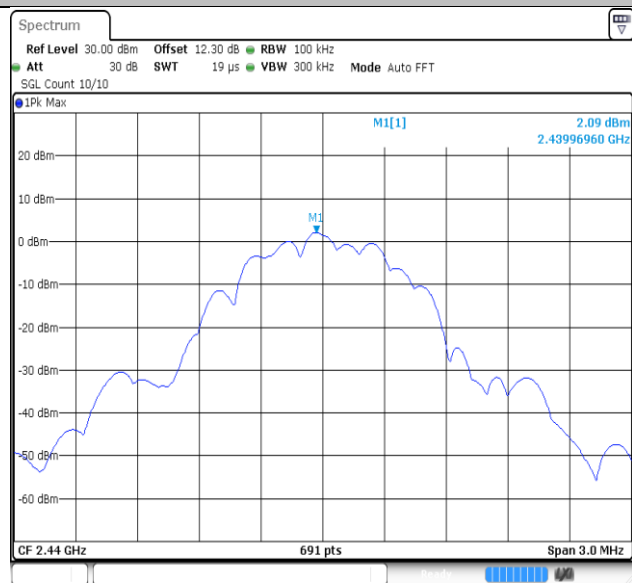
Date: 18 NOV 2025 08:09:38

### BLE\_1M-2402-30~1000-PASS



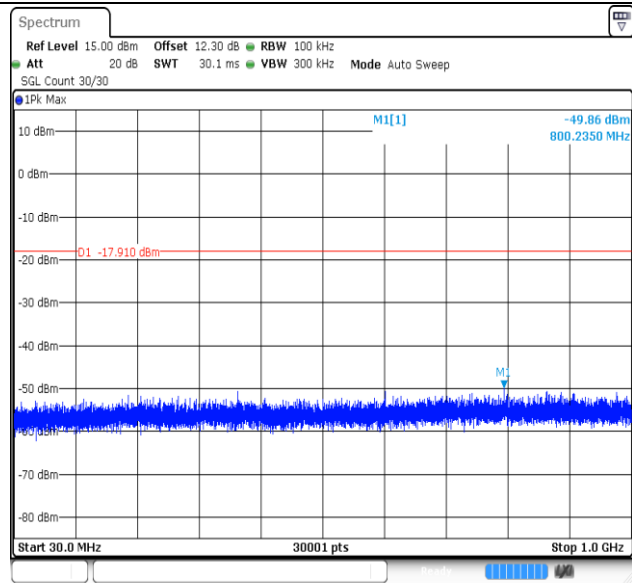
Date: 18 NOV 2025 08:10:05

### BLE\_1M-2402-1000~26500-PASS



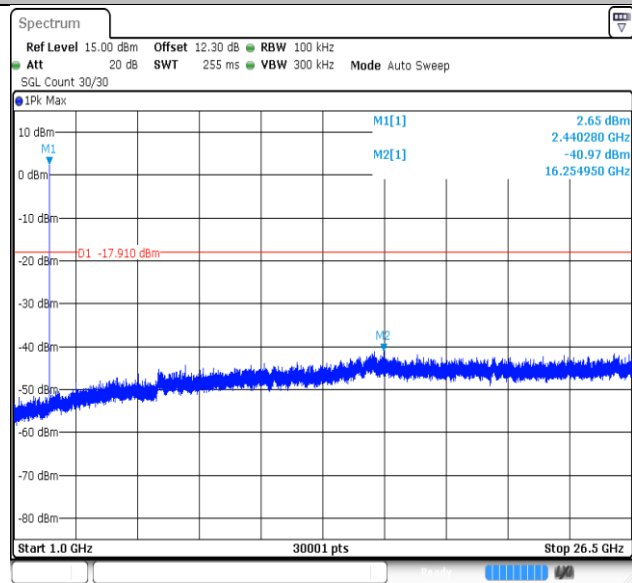
Date: 18 NOV 2025 08:19:16

### BLE\_1M-2440-0~Reference-PASS



Date: 18 NOV 2025 08:19:21

### BLE\_1M-2440-30~1000-PASS



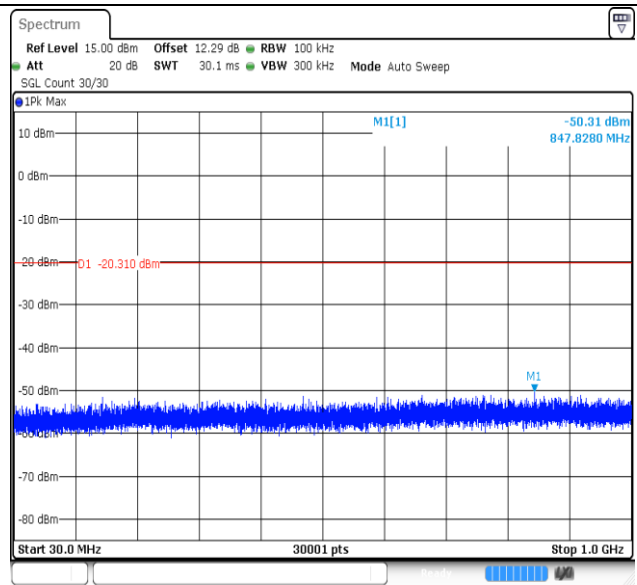
Date: 18 NOV 2025 08:19:49

### BLE\_1M-2440-1000~26500-PASS



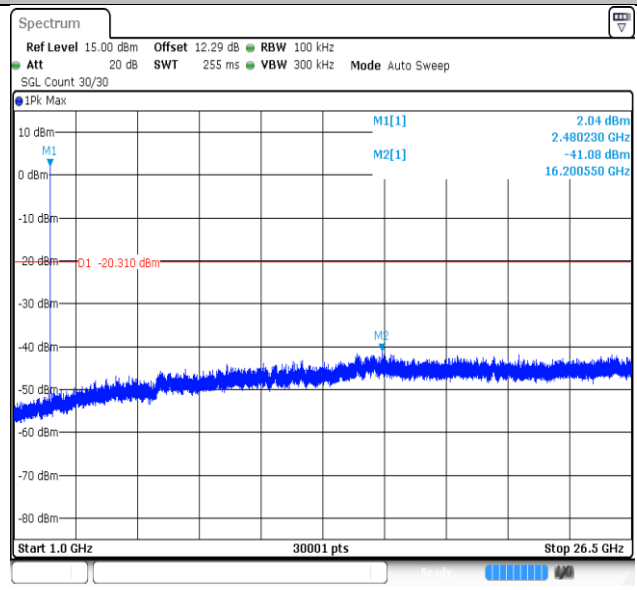
Date: 18 NOV 2025 08:32:27

### BLE\_1M-2480-0~Reference-PASS



Date: 18 NOV 2025 08:32:33

### BLE\_1M-2480-30~1000-PASS



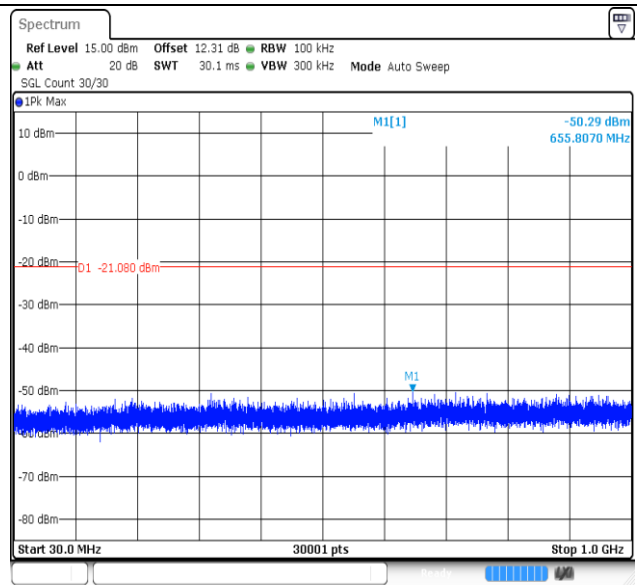
Date: 18 NOV 2025 08:33:00

### BLE\_1M-2480-1000~26500-PASS



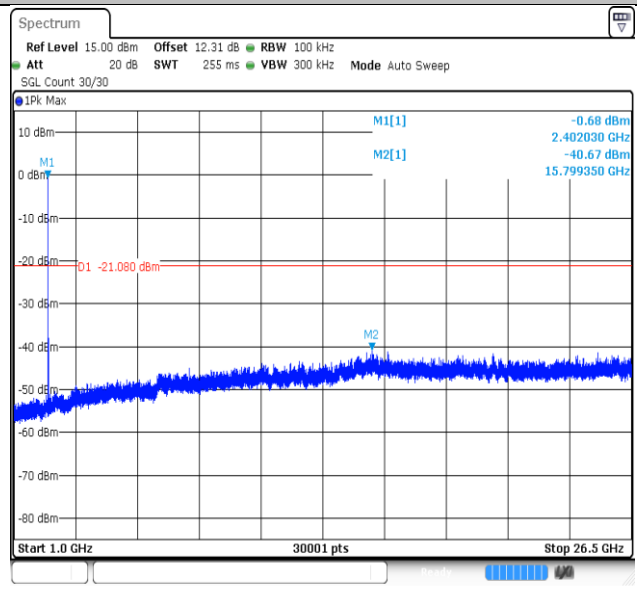
Date: 18 NOV 2025 08:44:54

### BLE\_2M-2402-0~Reference-PASS



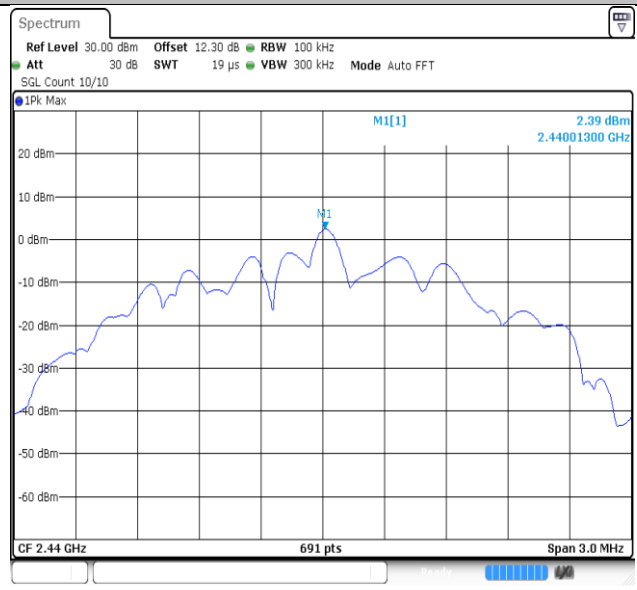
Date: 18 NOV 2025 08:45:00

### BLE\_2M-2402-30~1000-PASS



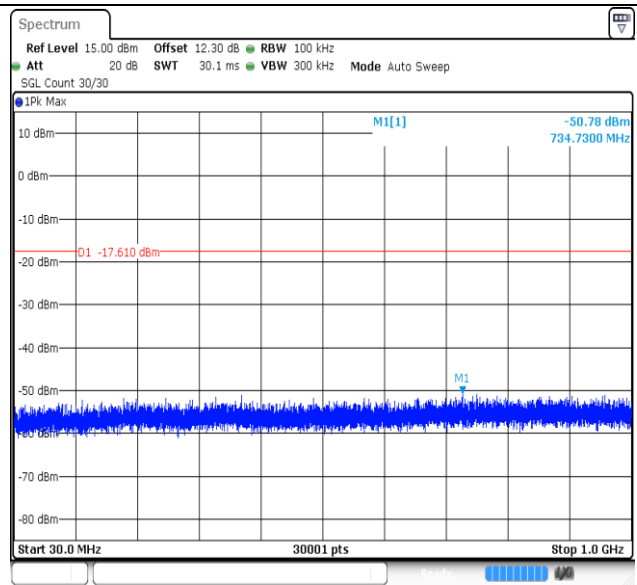
Date: 18 NOV 2025 08:45:27

### BLE\_2M-2402-1000~26500-PASS

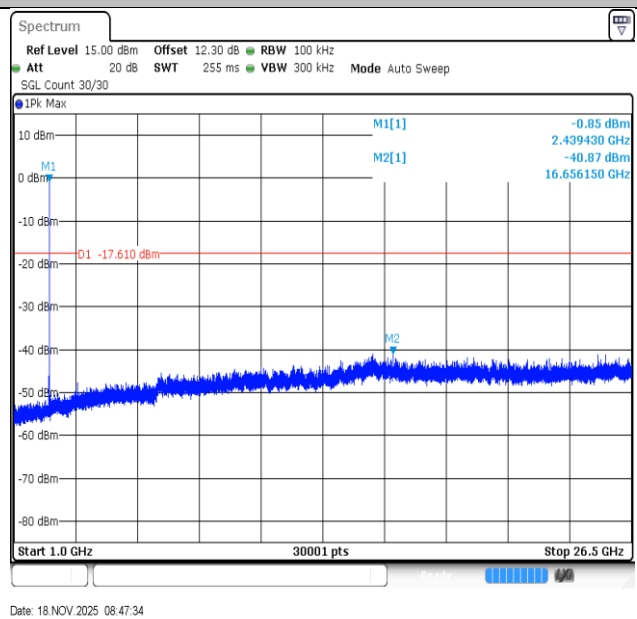


Date: 18 NOV 2025 08:47:01

### BLE\_2M-2440-0~Reference-PASS



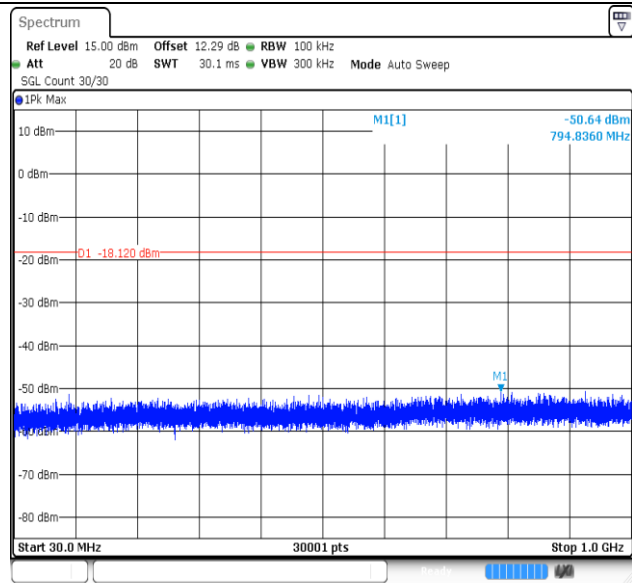
### BLE\_2M-2440-30~1000-PASS



### BLE\_2M-2440-1000~26500-PASS

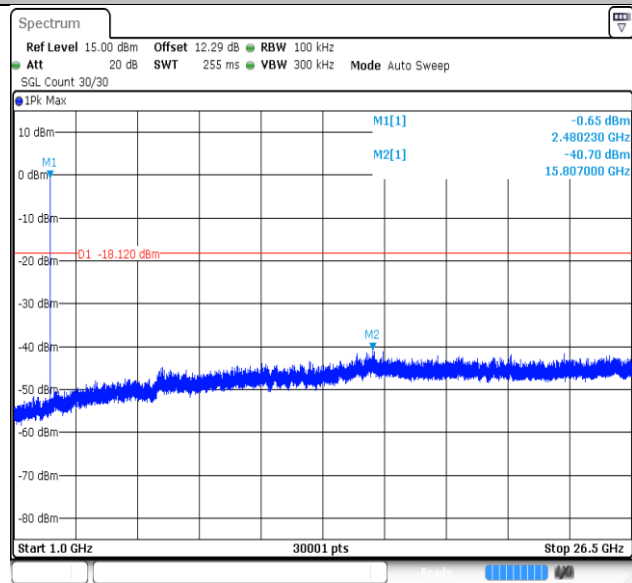


### BLE\_2M-2480-0~Reference-PASS



Date: 18 NOV 2025 08:55:14

### BLE\_2M-2480-30~1000-PASS



Date: 18 NOV 2025 08:55:42

### BLE\_2M-2480-1000~26500-PASS

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