# Appendix A

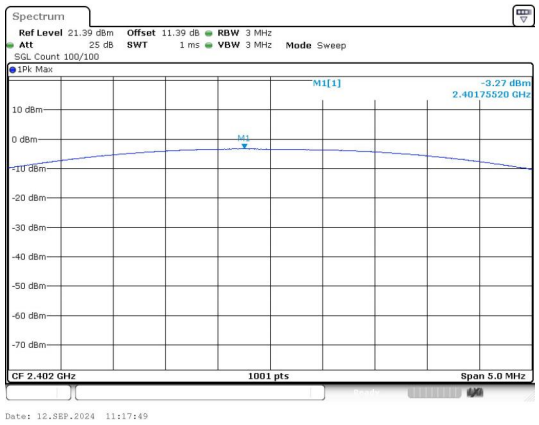
| | |
|---|---|
| Report No.: | CISRR240911097 |
| FCC ID: | 2BDZJ-JR01 |
| Product Name: | wireless headphone |
| Model No.: | JR01 |
| Test Engineer: | Lucas Huang |
| Supervised by: | Rory Huang |

# 1) Conducted Output Power

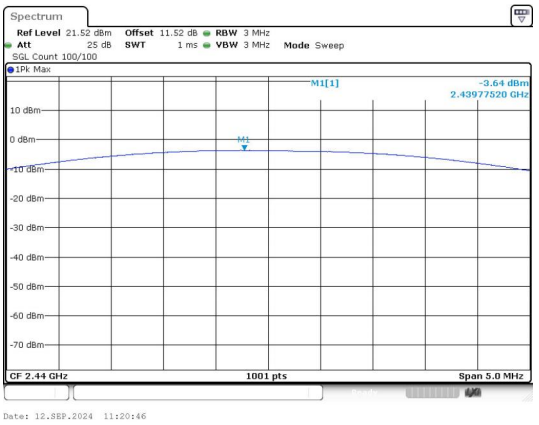
**Test Result**

| Mode | Channel | Peak Output Power (dBm) | Peak Output Power (mW) | Limit (dBm) | Result |
|---|---|---|---|---|---|
| BLE 1M | 0 | -3.27 | 0.47 | ≤30 | PASS |
| | 19 | -3.64 | 0.43 | ≤30 | PASS |
| | 39 | -3.29 | 0.47 | ≤30 | PASS |
| BLE 2M | 0 | -3.09 | 0.49 | ≤30 | PASS |
| | 19 | -3.40 | 0.46 | ≤30 | PASS |
| | 39 | -3.14 | 0.49 | ≤30 | PASS |

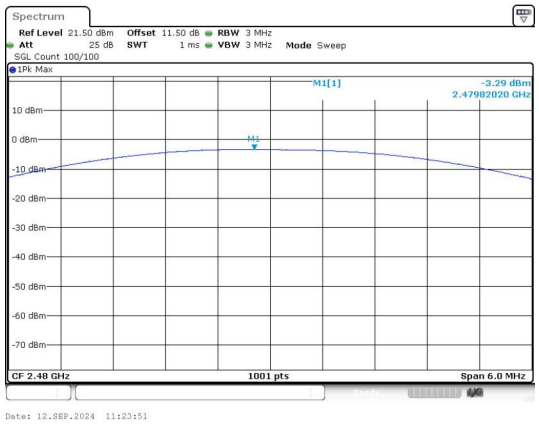
**Test Graphs**



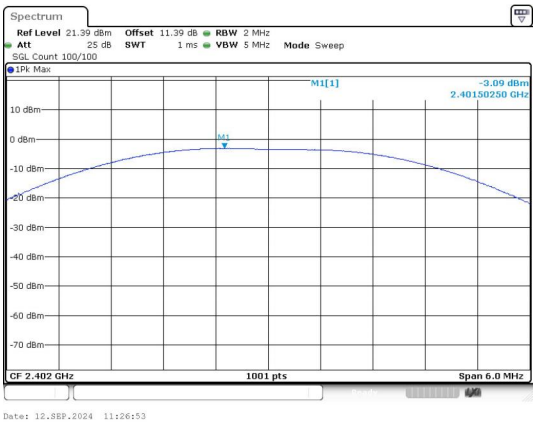

Peak Output Power
BLE 1M_Channel 0



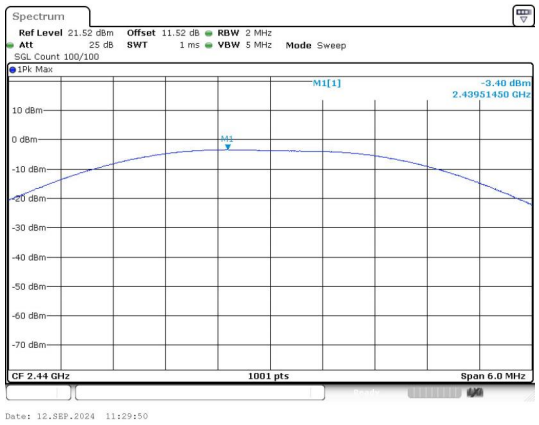

Peak Output Power
BLE 1M_Channel 19




Peak Output Power
BLE 1M_Channel 39

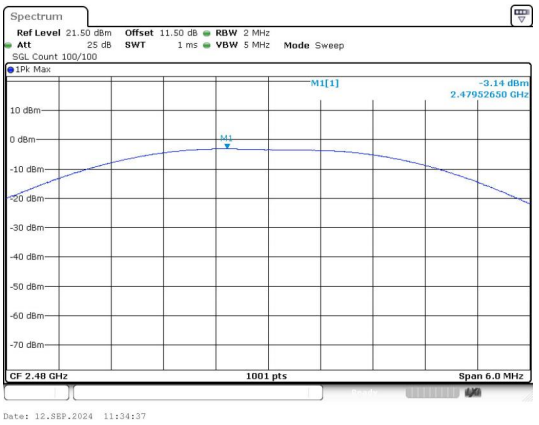



Peak Output Power
BLE 2M_Channel 0




**Peak Output Power**

**BLE 2M_Channel 19**




**Peak Output Power**

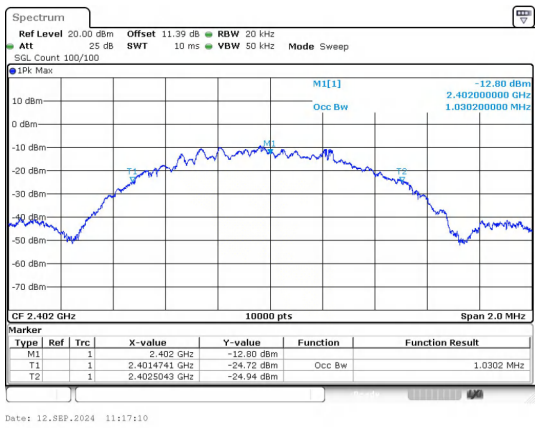
**BLE 2M_Channel 39**

# 2) 99% Bandwidth

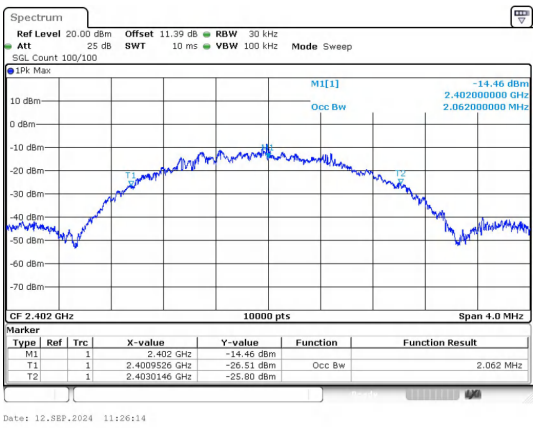
### Test Result

| Mode | Channel | Center Frequency (MHz) | 99% BW (MHz) |
|---|---|---|---|
| BLE 1M | 0 | 2402 | 1.0302 |
| BLE 1M | 19 | 2440 | 1.0312 |
| BLE 1M | 39 | 2480 | 1.0300 |
| BLE 2M | 0 | 2402 | 2.0620 |
| BLE 2M | 19 | 2440 | 2.0580 |
| BLE 2M | 39 | 2480 | 2.0648 |

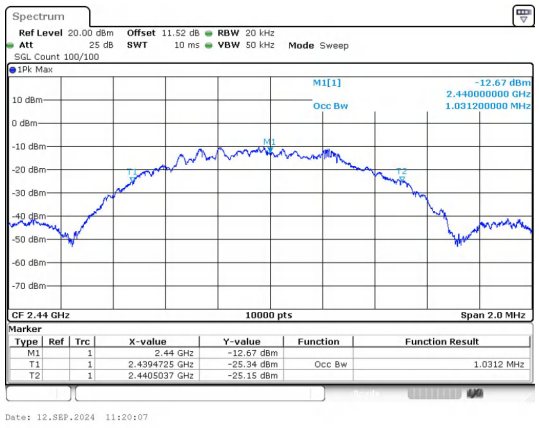
### Test Graphs



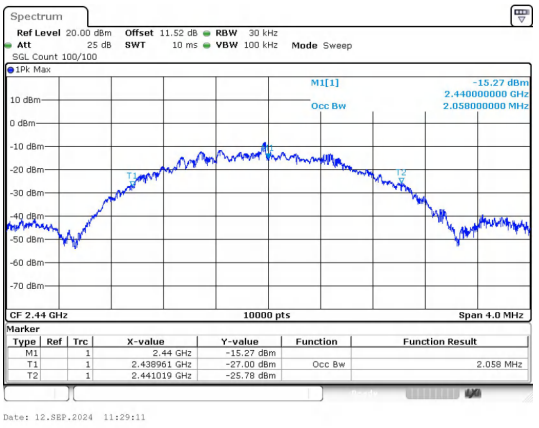

BLE 1M_Channel 0



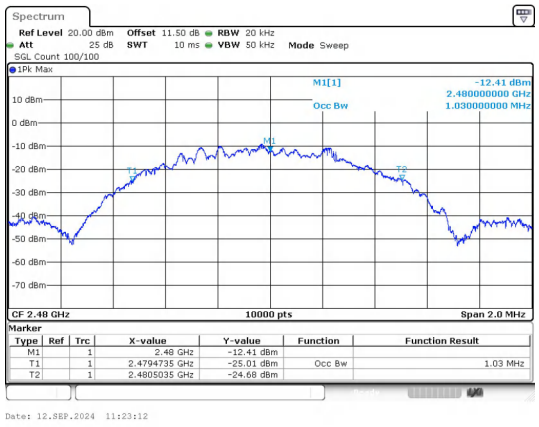

BLE 2M_Channel 0



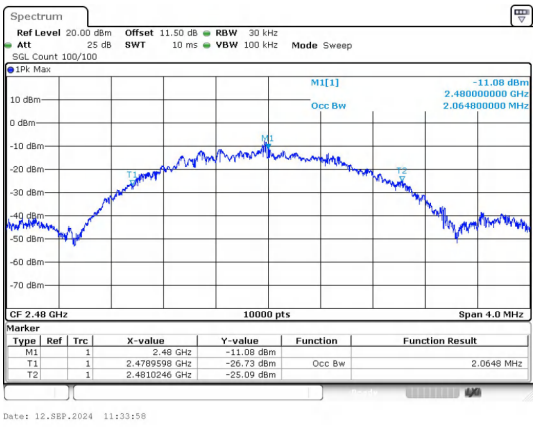

BLE 1M_Channel 19




BLE 2M_Channel 19




BLE 1M_Channel 39



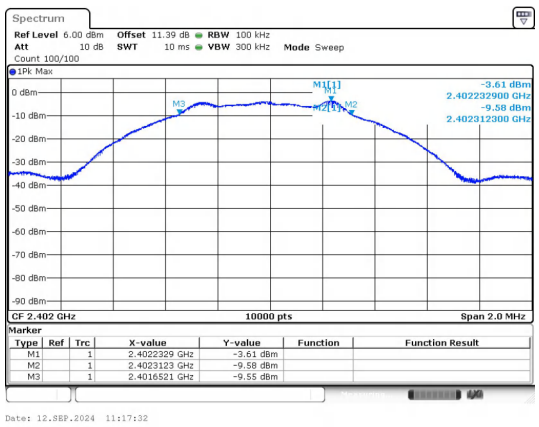

BLE 2M_Channel 39

# 3) 6dB Bandwidth

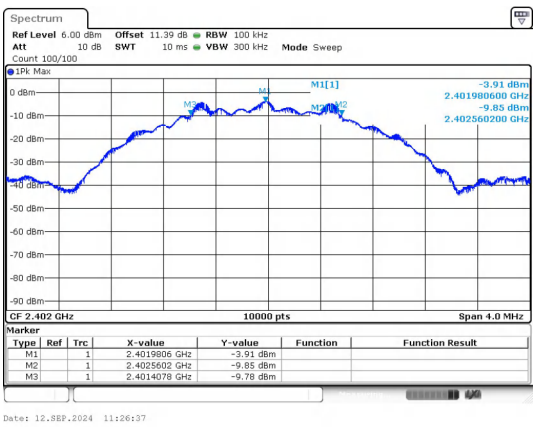
**Test Result**

| 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 | 1.150 | | PASS |
| | 19 | 2440 | 1.160 | | PASS |
| | 39 | 2480 | 1.160 | | PASS |

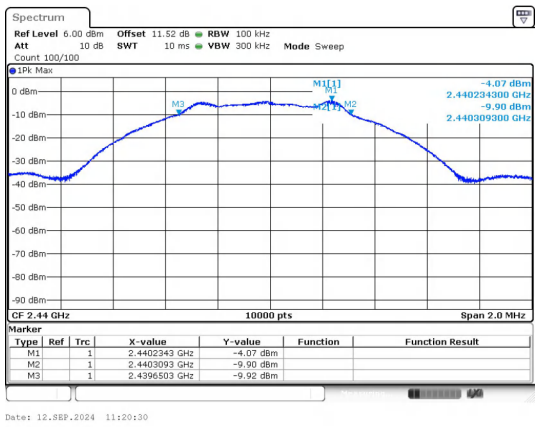
**Test Graphs**



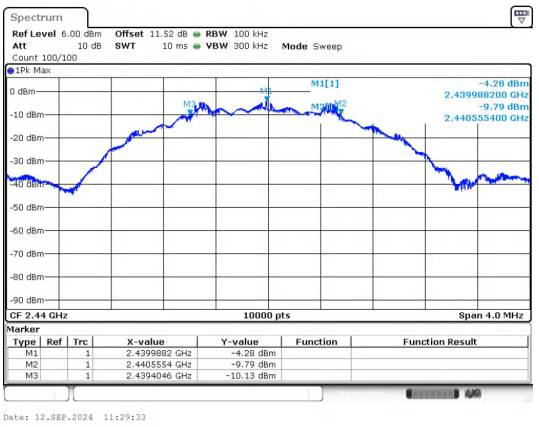

BLE 1M_Channel 0



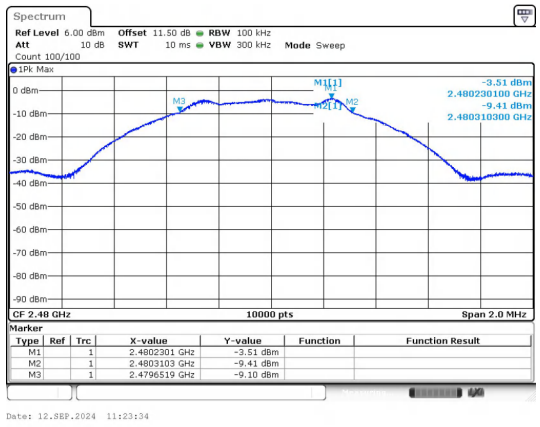

BLE 2M_Channel 0



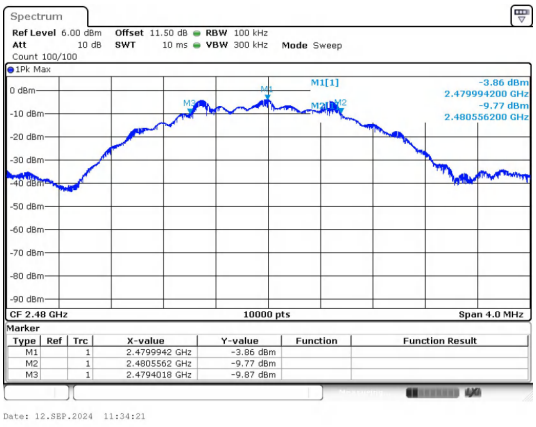

BLE 1M_Channel 19




BLE 2M_Channel 19




BLE 1M_Channel 39



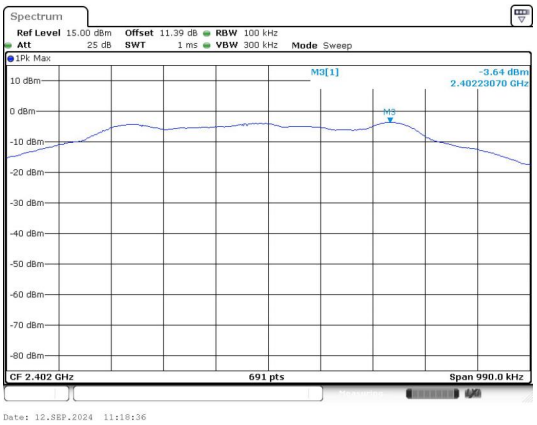

BLE 2M_Channel 39

# 4) Conducted Out Of Band Emission

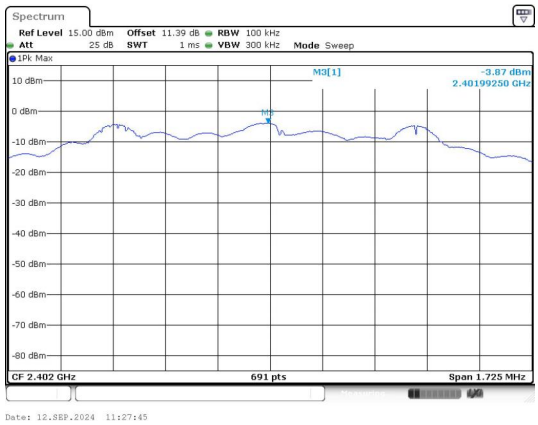
**Test Result**

| Mode | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|---|---|---|---|---|---|---|
| BLE 1M | 0 | 2398.94 | -47.906 | -23.64 | -24.266 | PASS |
| | | 2400.00 | -48.625 | -23.64 | -24.985 | PASS |
| | | 9602.20 | -35.734 | -23.64 | -12.094 | PASS |
| | 19 | 9753.73 | -34.110 | -24.05 | -10.060 | PASS |
| | 39 | 2483.50 | -44.195 | -23.69 | -20.505 | PASS |
| | | 9914.37 | -37.091 | -23.69 | -13.401 | PASS |
| BLE 2M | 0 | 2400.00 | -36.243 | -23.87 | -12.373 | PASS |
| | | 9602.25 | -35.666 | -23.87 | -11.796 | PASS |
| | 19 | 9753.73 | -34.330 | -24.23 | -10.100 | PASS |
| | 39 | 2483.50 | -49.896 | -23.94 | -25.956 | PASS |
| | | 9914.37 | -37.306 | -23.94 | -13.366 | PASS |

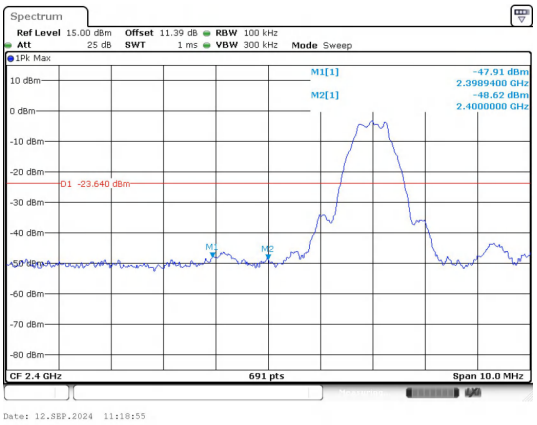
**Test Graphs**



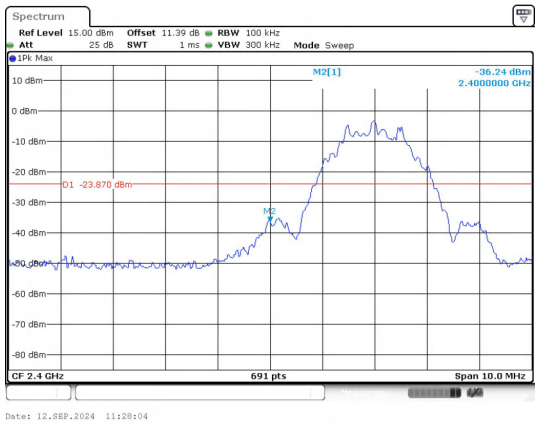

In-Band Reference Level
BLE 1M_Channel 0



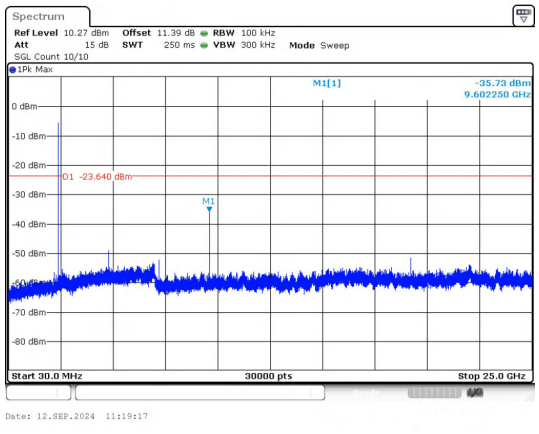
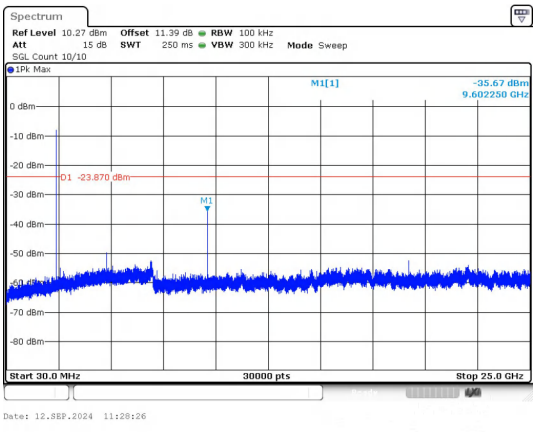
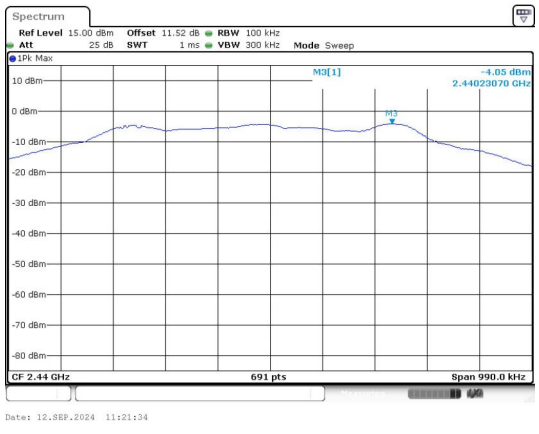
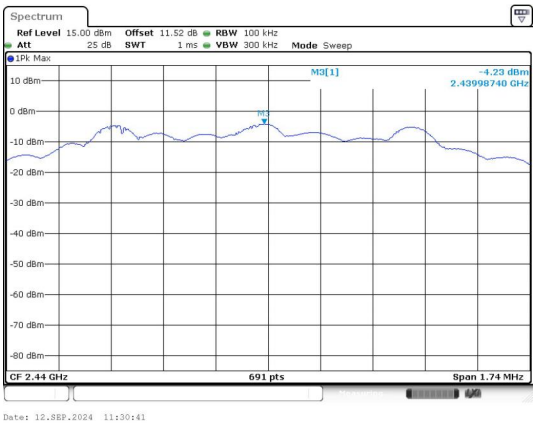
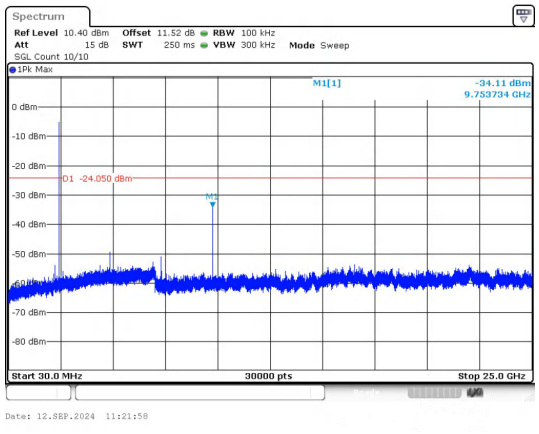
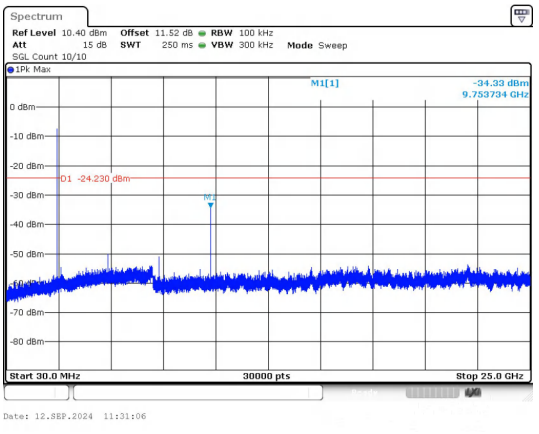

In-Band Reference Level
BLE 2M_Channel 0

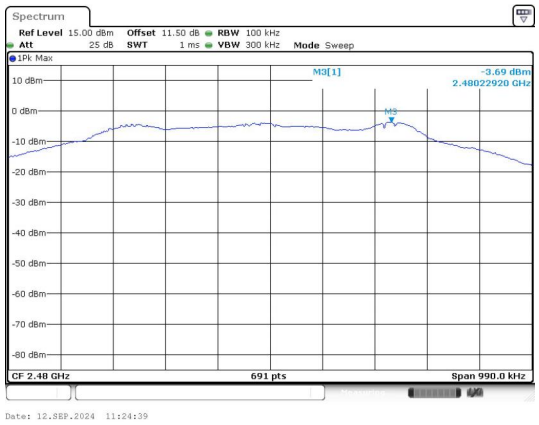



Out Of Band Emission



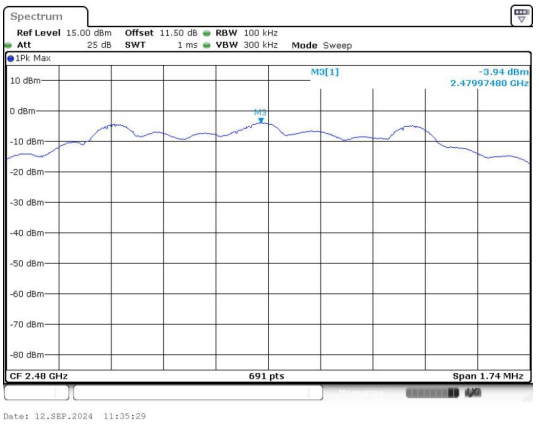

Out Of Band Emission

| BLE 1M_Channel 0 | BLE 2M_Channel 0 |
|---|---|
|  |  |
| 30.0 MHz - 25000.0 MHz<br>BLE 1M_Channel 0 | 30.0 MHz - 25000.0 MHz<br>BLE 2M_Channel 0 |
|  |  |
| In-Band Reference Level<br>BLE 1M_Channel 19 | In-Band Reference Level<br>BLE 2M_Channel 19 |
|  |  |
| 30.0 MHz - 25000.0 MHz<br>BLE 1M_Channel 19 | 30.0 MHz - 25000.0 MHz<br>BLE 2M_Channel 19 |



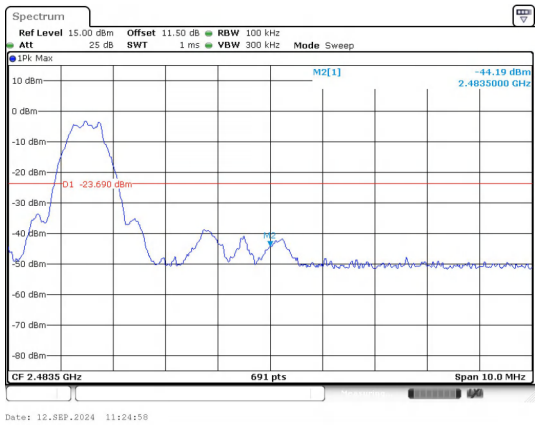

**In-Band Reference Level**

**BLE 1M_Channel 39**



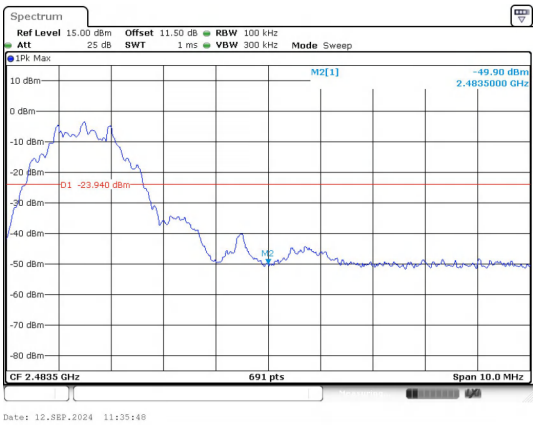

**In-Band Reference Level**

**BLE 2M_Channel 39**



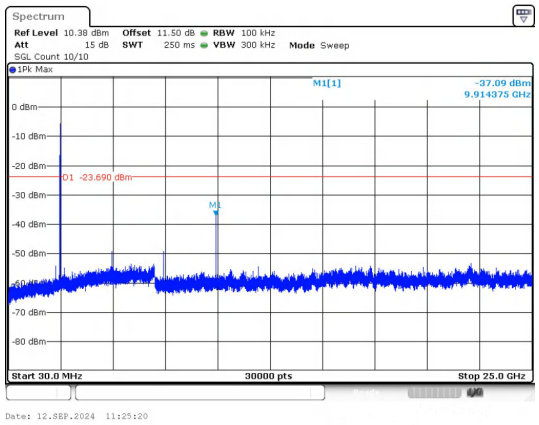

**Out Of Band Emission**

**BLE 1M_Channel 39**



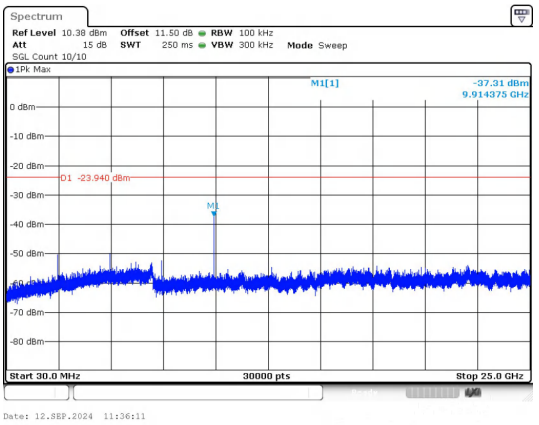

**Out Of Band Emission**

**BLE 2M_Channel 39**




**30.0 MHz - 25000.0 MHz**

**BLE 1M_Channel 39**




**30.0 MHz - 25000.0 MHz**

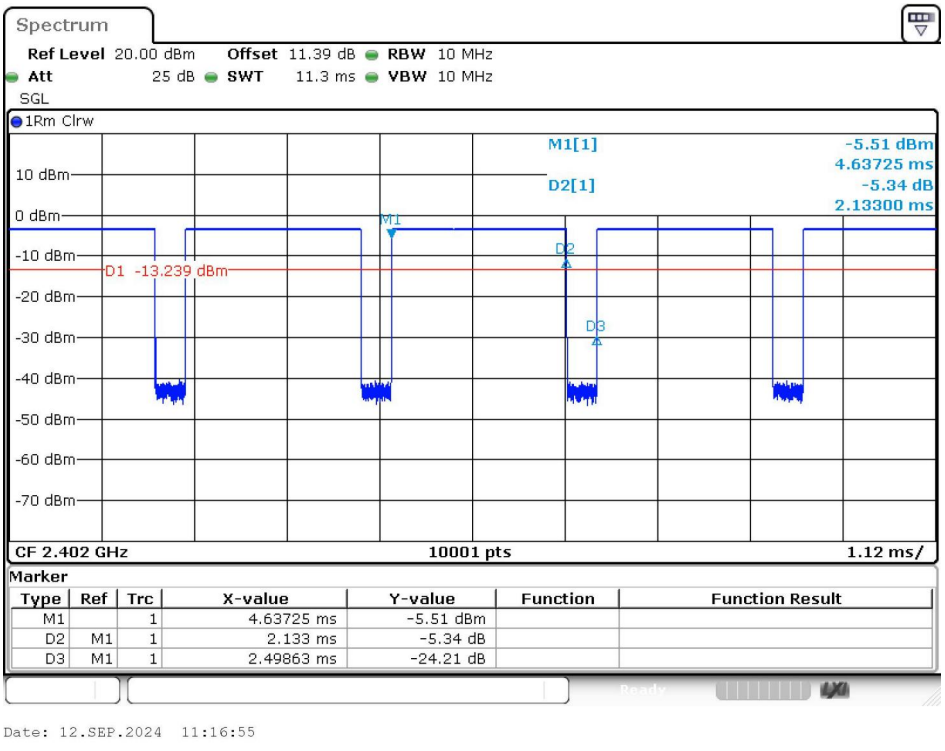
**BLE 2M_Channel 39**

# 5) Duty Cycle

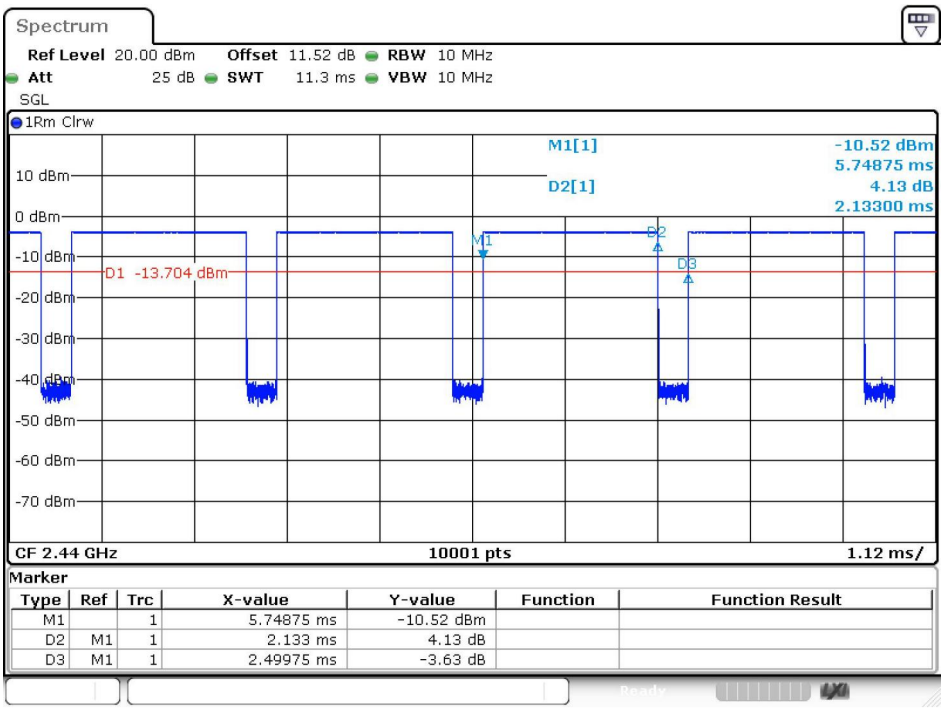
**Test Result**

| Mode | Channel | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle (linear) | Duty Cycle Factor (dB) | 1/T |
|---|---|---|---|---|---|---|---|
| BLE 1M | 0 | 2.133 | 2.499 | 85.37 | 0.8537 | 0.6869 | 0.47 |
| | 19 | 2.133 | 2.500 | 85.33 | 0.8533 | 0.689 | 0.47 |
| | 39 | 2.133 | 2.500 | 85.33 | 0.8533 | 0.689 | 0.47 |
| BLE 2M | 0 | 1.081 | 2.499 | 43.27 | 0.4327 | 3.6381 | 0.93 |
| | 19 | 1.081 | 2.499 | 43.27 | 0.4327 | 3.6381 | 0.93 |
| | 39 | 1.080 | 2.499 | 43.22 | 0.4322 | 3.6432 | 0.93 |

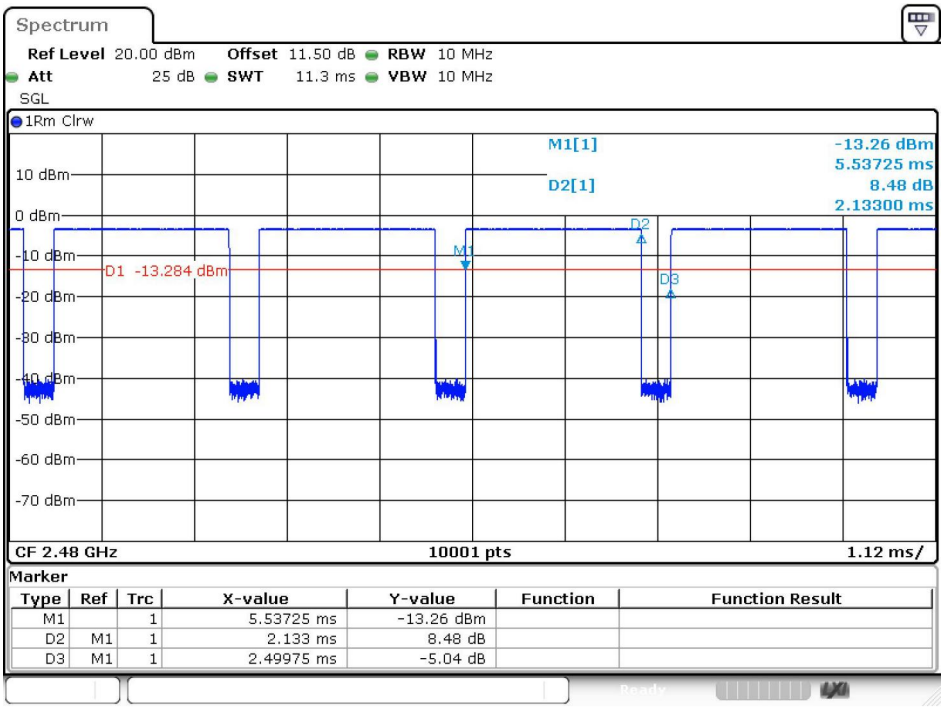
**Test Graphs**



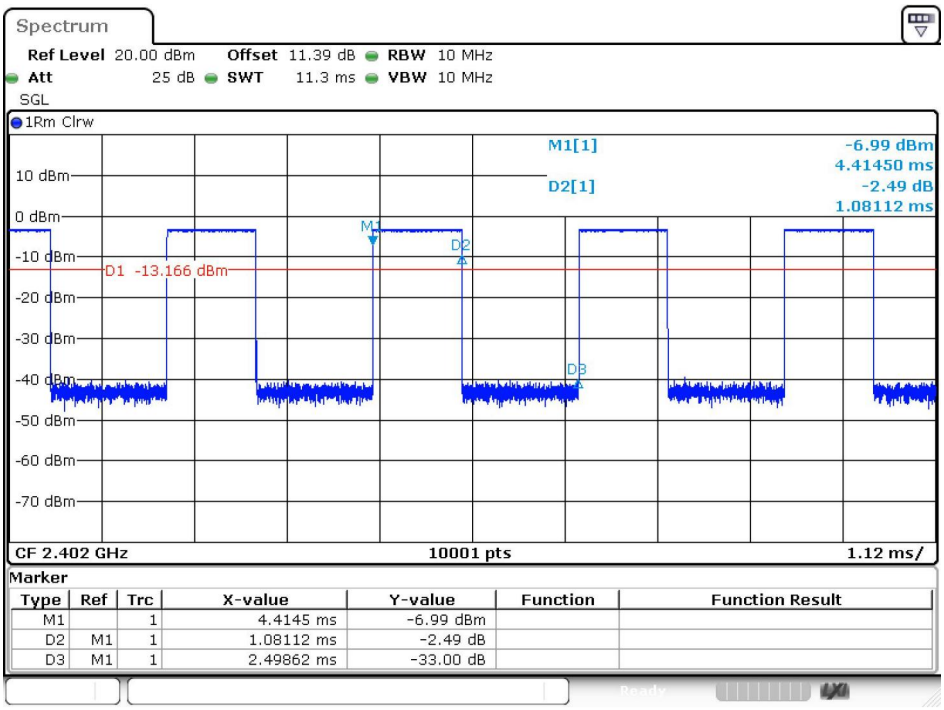

BLE 1M_Channel 0



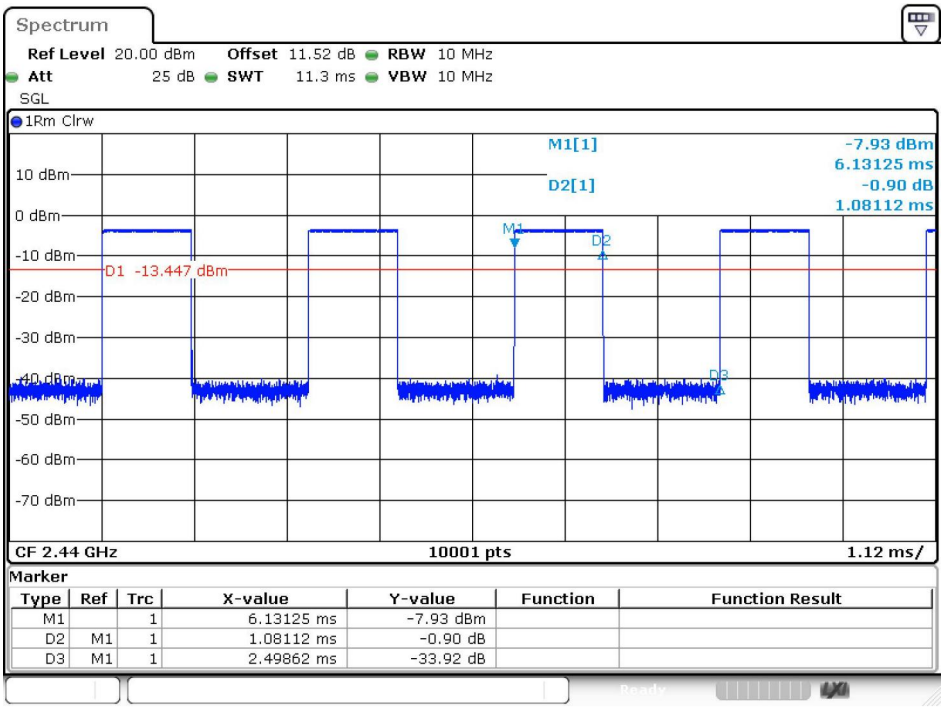

BLE 1M_Channel 19



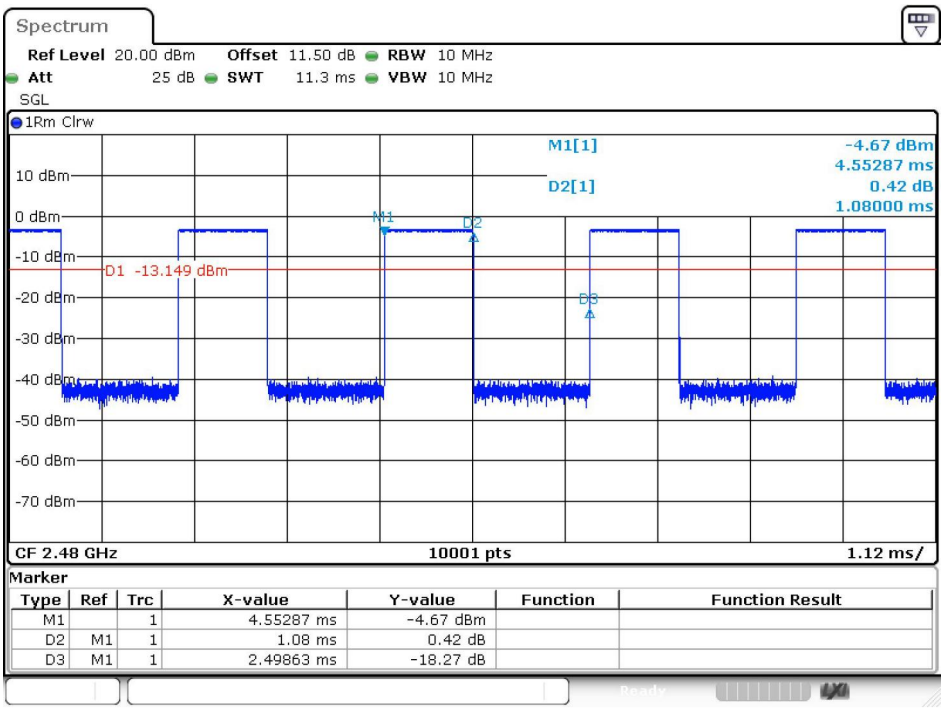

BLE 1M_Channel 39




**BLE 2M_Channel 0**




**BLE 2M_Channel 19**



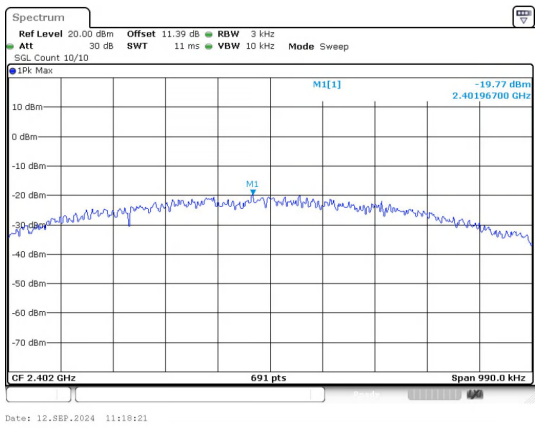

**BLE 2M_Channel 39**

# 6) Power Spectral Density

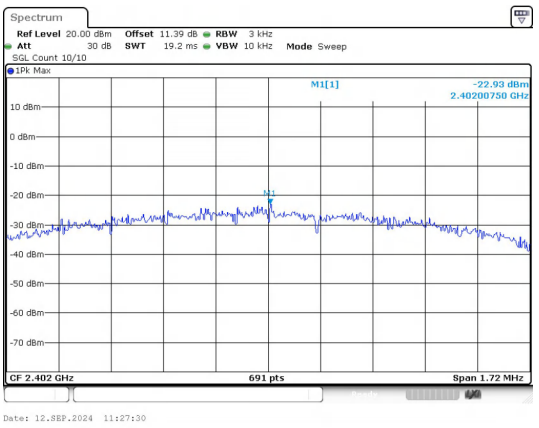
**Test Result**

| Mode | Channel | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|---|---|---|---|---|
| BLE 1M | 0 | -19.77 | ≤8 | PASS |
| BLE 1M | 19 | -20.62 | ≤8 | PASS |
| BLE 1M | 39 | -20.34 | ≤8 | PASS |
| BLE 2M | 0 | -22.93 | ≤8 | PASS |
| BLE 2M | 19 | -22.32 | ≤8 | PASS |
| BLE 2M | 39 | -23.02 | ≤8 | PASS |

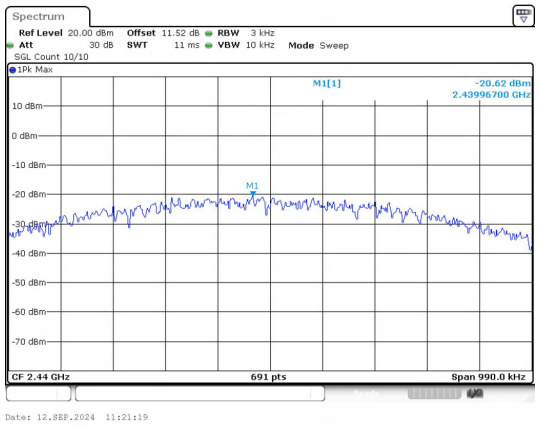
**Test Graphs**



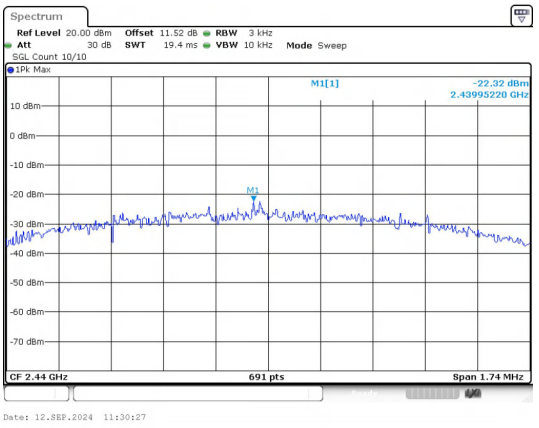

BLE 1M_Channel 0



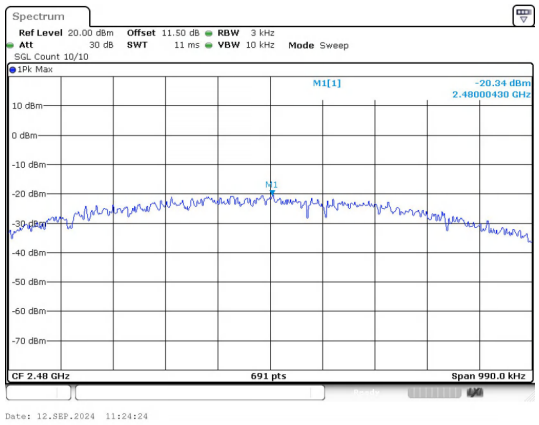

BLE 2M_Channel 0



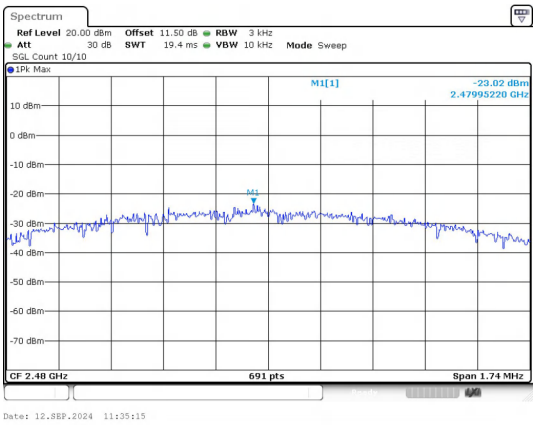

BLE 1M_Channel 19




BLE 2M_Channel 19




BLE 1M_Channel 39




BLE 2M_Channel 39