# Appendix A

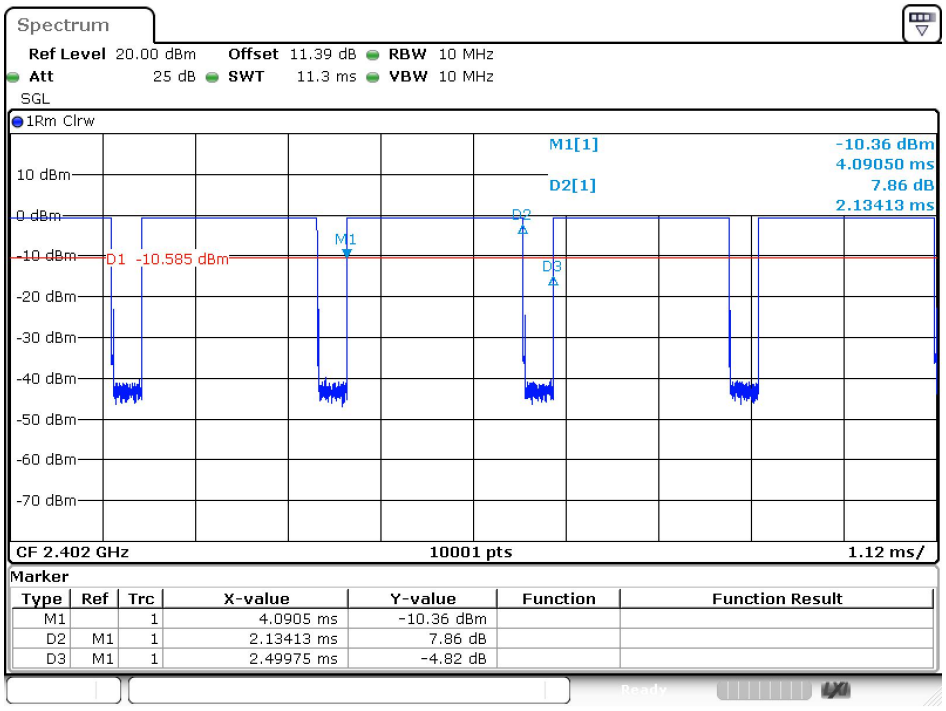
| | |
|---|---|
| Report No.: | CISRR24051304201 |
| FCC ID: | 2BFQI-V98PRO |
| Product Name: | keyboard |
| Model No.: | V98Pro |
| Test Engineer: | Lucas Huang |
| Supervised by: | Rory Huang |

# 1) Duty Cycle

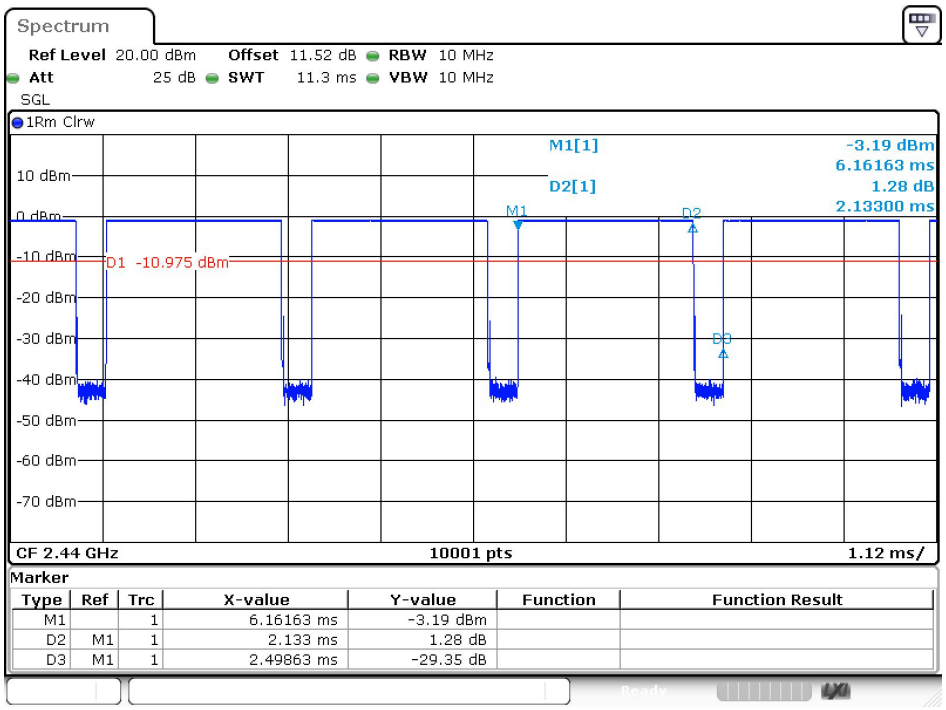
**Test Result**

| Mode | Channel | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle (linear) | Duty Cycle Factor (dB) | 1/T |
|---|---|---|---|---|---|---|---|
| BLE 1M | 0 | 2.134 | 2.500 | 85.37 | 0.8537 | 0.6869 | 0.47 |
| | 19 | 2.133 | 2.499 | 85.37 | 0.8537 | 0.6869 | 0.47 |
| | 39 | 2.134 | 2.499 | 85.41 | 0.8541 | 0.6849 | 0.47 |

**Test Graphs**

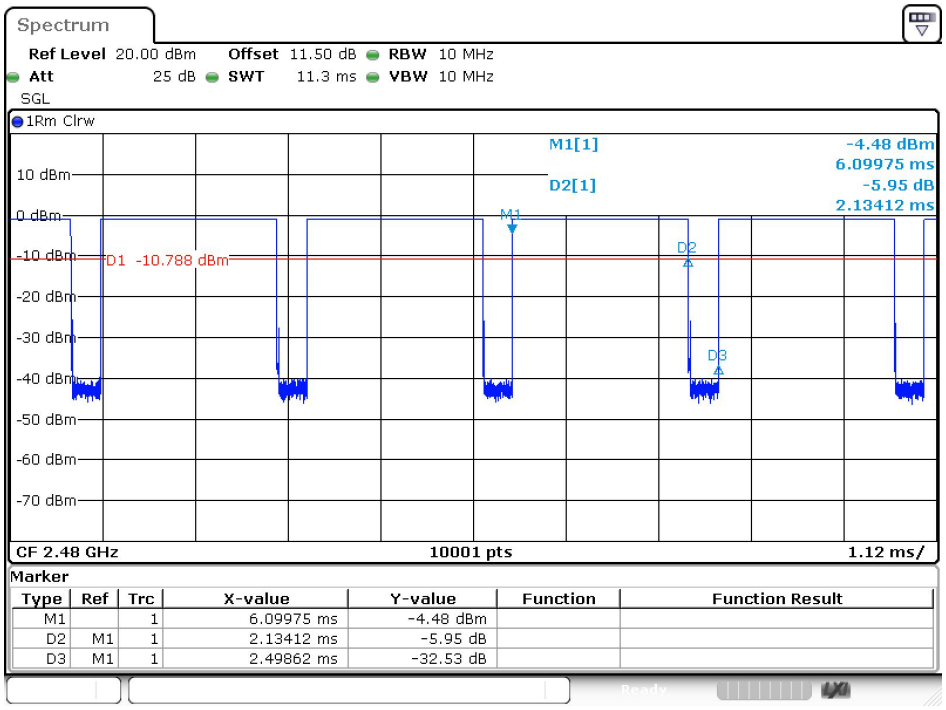



BLE 1M_Channel 0




Date: 5.JUL.2024 12:53:33

**BLE 1M_Channel 19**




Date: 5.JUL.2024 13:04:03

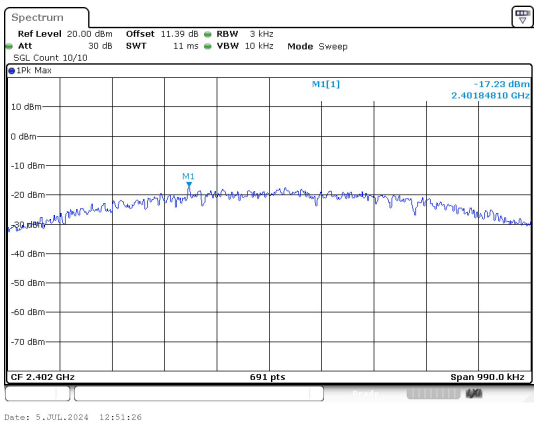
**BLE 1M_Channel 39**

# 2) Power Spectral Density

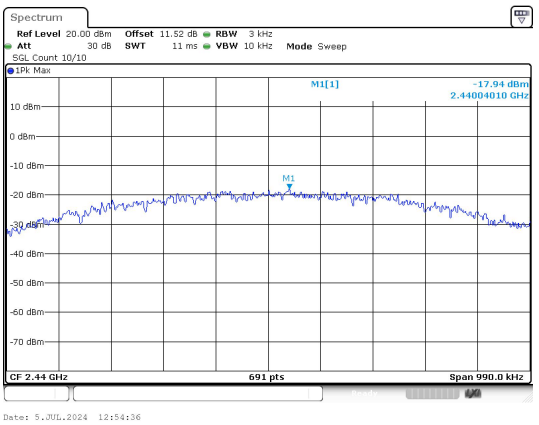
**Test Result**

| Mode | Channel | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|---|---|---|---|---|
| BLE 1M | 0 | -17.228 | ≤8 | PASS |
| BLE 1M | 19 | -17.935 | ≤8 | PASS |
| BLE 1M | 39 | -17.592 | ≤8 | PASS |

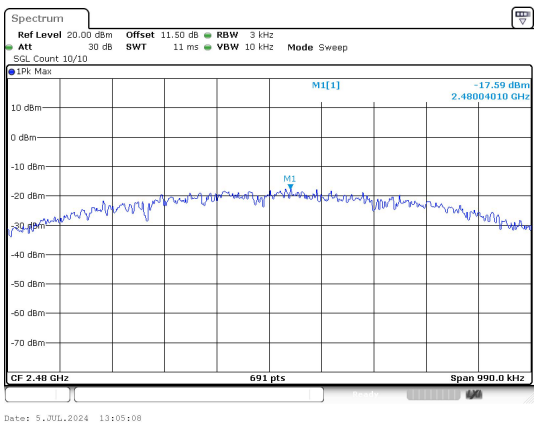
**Test Graphs**




BLE 1M_Channel 0




BLE 1M_Channel 19



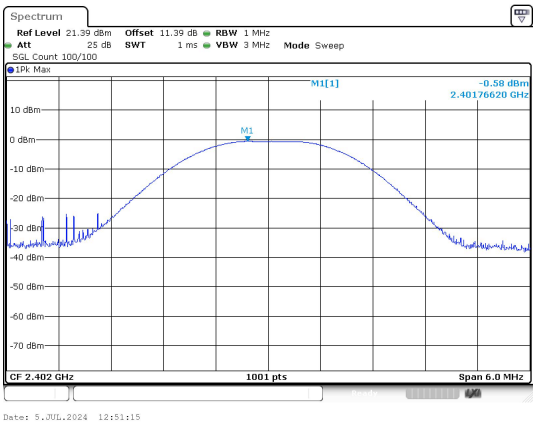

BLE 1M_Channel 39

# 3) Conducted Peak Output Power

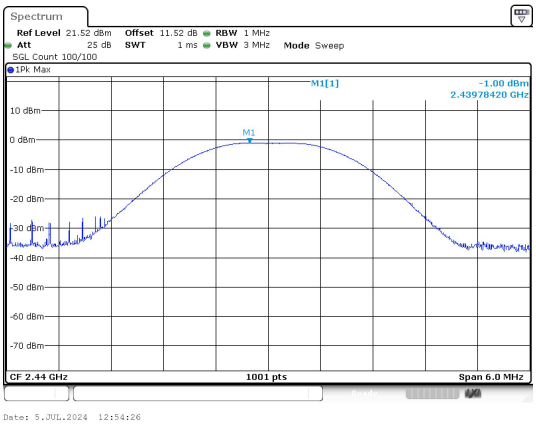
**Test Result**

| Mode | Channel | Peak Output Power (dBm) | Peak Output Power (mW) | Limit (dBm) | Result |
|---|---|---|---|---|---|
| BLE 1M | 0 | -0.58 | 0.88 | ≤30 | PASS |
| | 19 | -1.00 | 0.79 | ≤30 | PASS |
| | 39 | -0.82 | 0.83 | ≤30 | PASS |

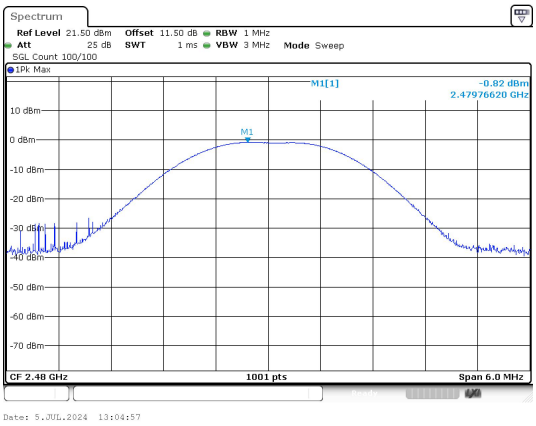
**Test Graphs**




Peak Output Power
BLE 1M_Channel 0




Peak Output Power
BLE 1M_Channel 19



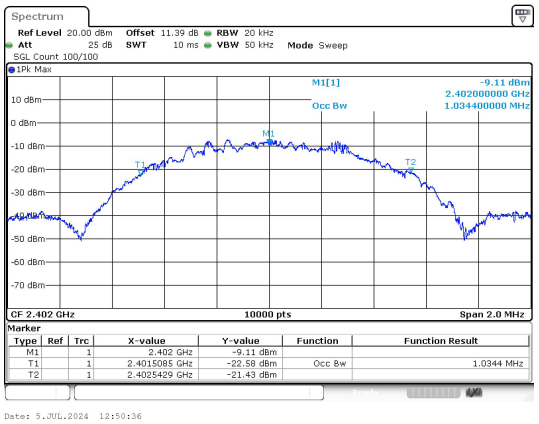

Peak Output Power
BLE 1M_Channel 39

# 4) 99% Bandwidth

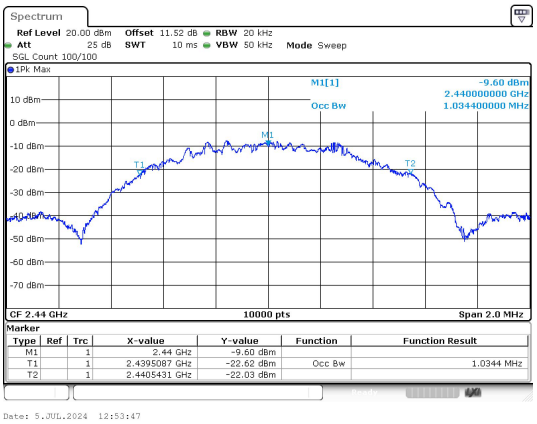
### Test Result

| Mode | Channel | Center Frequency (MHz) | 99% BW (MHz) |
|---|---|---|---|
| BLE 1M | 0 | 2402 | 1.0344 |
| BLE 1M | 19 | 2440 | 1.0344 |
| BLE 1M | 39 | 2480 | 1.0312 |

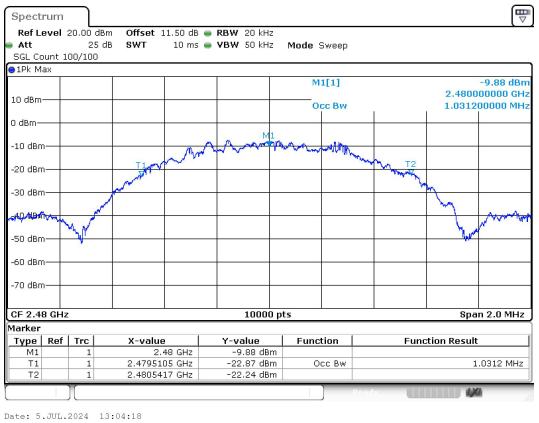
### Test Graphs




BLE 1M_Channel 0




BLE 1M_Channel 19



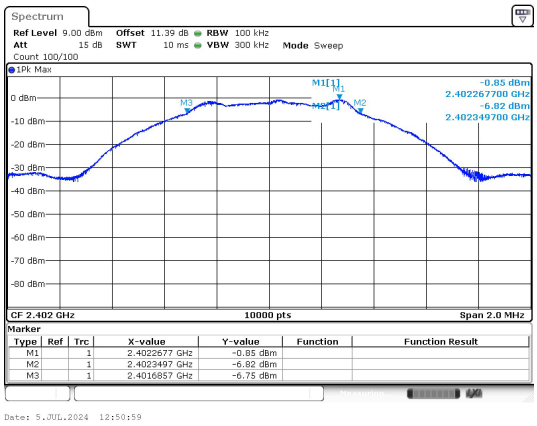

BLE 1M_Channel 39

# 5) 6dB Bandwidth

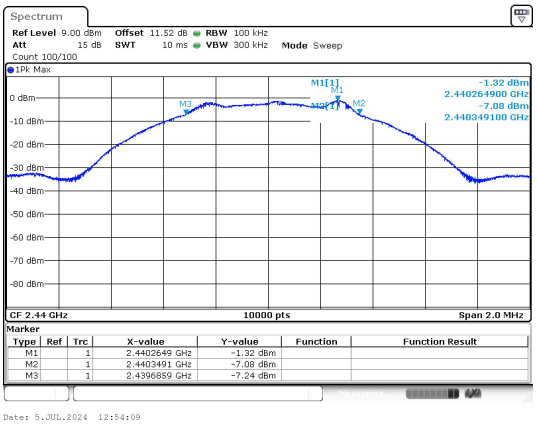
### Test Result

| 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 |

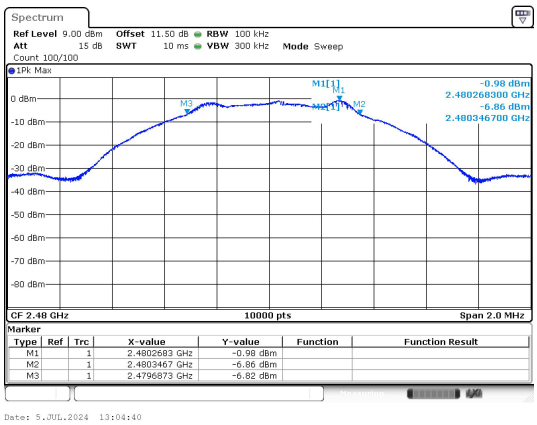
### Test Graphs




BLE 1M_Channel 0




BLE 1M_Channel 19



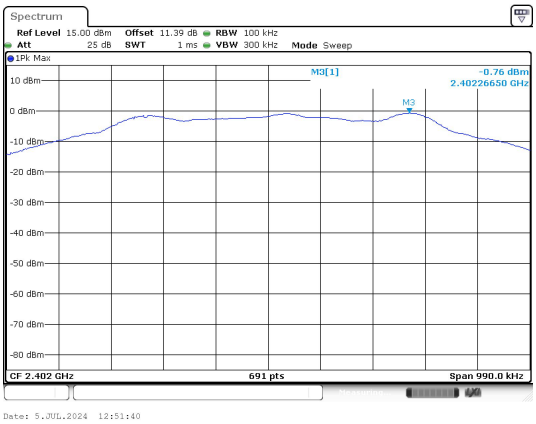

BLE 1M_Channel 39

# 6) Conducted Out Of Band Emission

**Test Result**

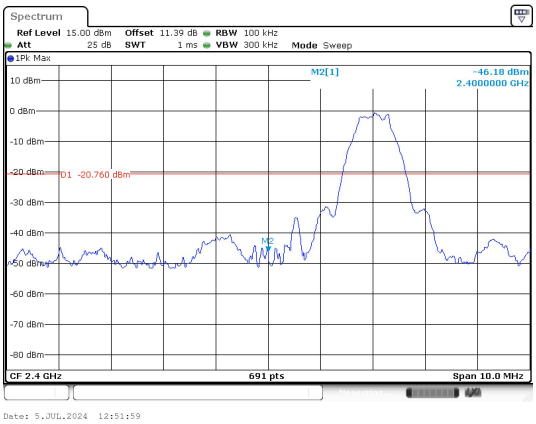
| Mode | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|---|---|---|---|---|---|---|
| BLE 1M | 0 | 2399.00 | -41.359 | -20.76 | -20.599 | PASS |
| | | 2400.00 | -49.914 | -20.76 | -29.154 | PASS |
| | | 7205.10 | -35.933 | -20.76 | -15.173 | PASS |
| | 19 | 9753.73 | -38.854 | -21.2 | -17.654 | PASS |
| | 39 | 2483.50 | -47.290 | -21.05 | -26.240 | PASS |
| | | 9914.37 | -38.008 | -21.05 | -16.958 | PASS |

**Test Graphs**



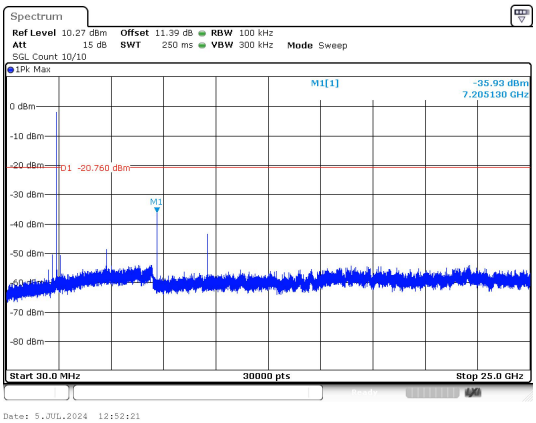

In-Band Reference Level

BLE 1M_Channel 0



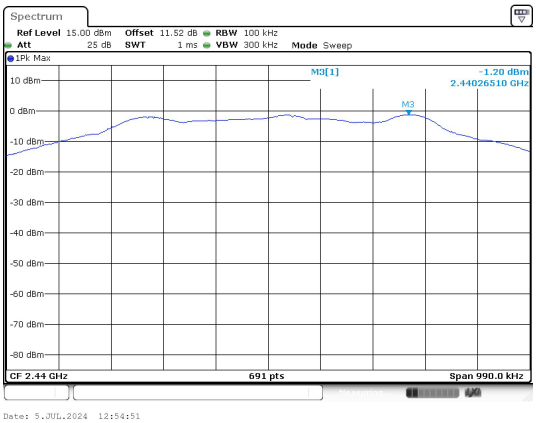

Out Of Band Emission

BLE 1M_Channel 0



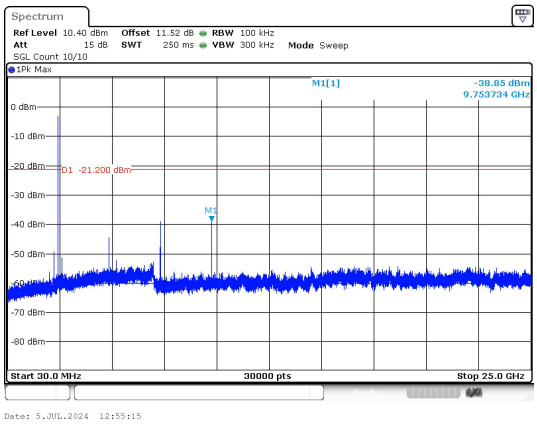

30.0 MHz - 25000.0 MHz

BLE 1M_Channel 0



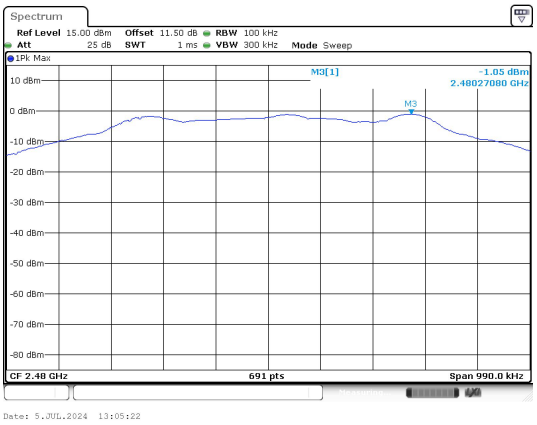

In-Band Reference Level

BLE 1M_Channel 19



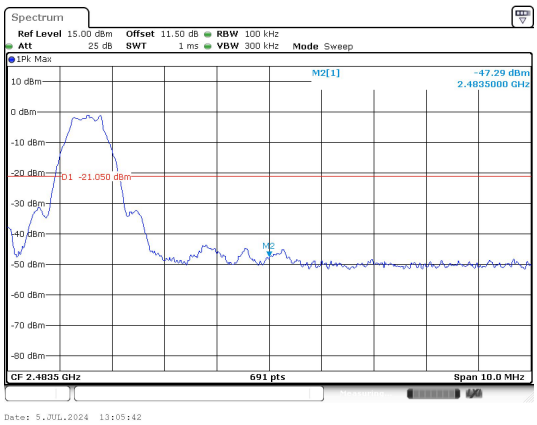

30.0 MHz - 25000.0 MHz

BLE 1M_Channel 19



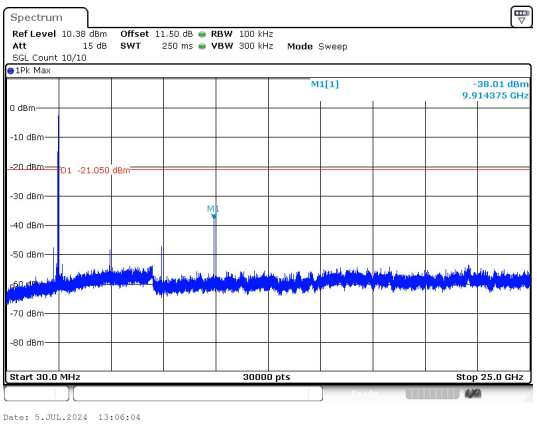

In-Band Reference Level

BLE 1M_Channel 39




Out Of Band Emission

BLE 1M_Channel 39




30.0 MHz - 25000.0 MHz

BLE 1M_Channel 39