



Keyway Testing Technology (Guangdong) Co., Ltd  
Room 2102,Building 6,Dongyi Intelligent Equipment New Energy Vehicle Park,N.30  
of Tangxia District,Dongshen Road,Tangxia Town,Dongguan City,Guangdong,China

|                         |                          |
|-------------------------|--------------------------|
| <b>E.U.T:</b>           | OWS Bluetooth Headphones |
| <b>Model Number:</b>    | MLF-M007                 |
| <b>Trade Name:</b>      | <b>MLF</b>               |
| <b>Date of Receipt:</b> | Aug 26, 2025             |
| <b>Date of Test:</b>    | Aug 26 ~ Sep 25, 2025    |
| <b>FCC ID:</b>          | 2BRZO-MLF-M007           |



## A.1 DUTY CYCLE

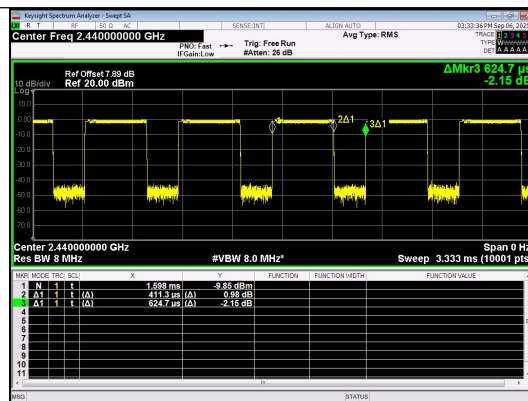
### Test Result

| Mode   | Channel | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle (linear) | Duty Cycle Factor (dB) | 1/T    |
|--------|---------|--------------|-------------|----------------|---------------------|------------------------|--------|
| BLE 1M | 0       | 0.411        | 0.625       | 65.81          | 0.6581              | 1.8171                 | 2.4331 |
|        | 19      | 0.411        | 0.625       | 65.85          | 0.6585              | 1.8144                 | 2.4331 |
|        | 39      | 0.411        | 0.625       | 65.85          | 0.6585              | 1.8144                 | 2.4331 |

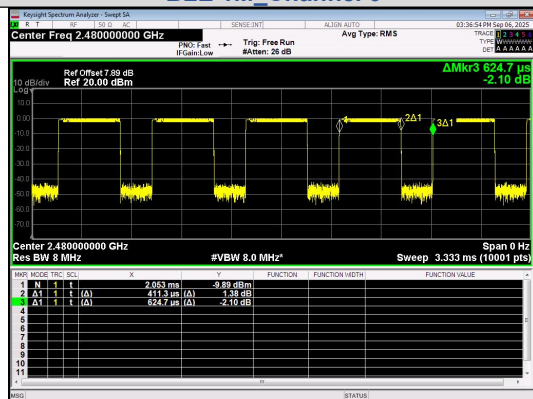
### Test Graphs



BLE 1M\_Channel 0



BLE 1M\_Channel 19



BLE 1M\_Channel 39



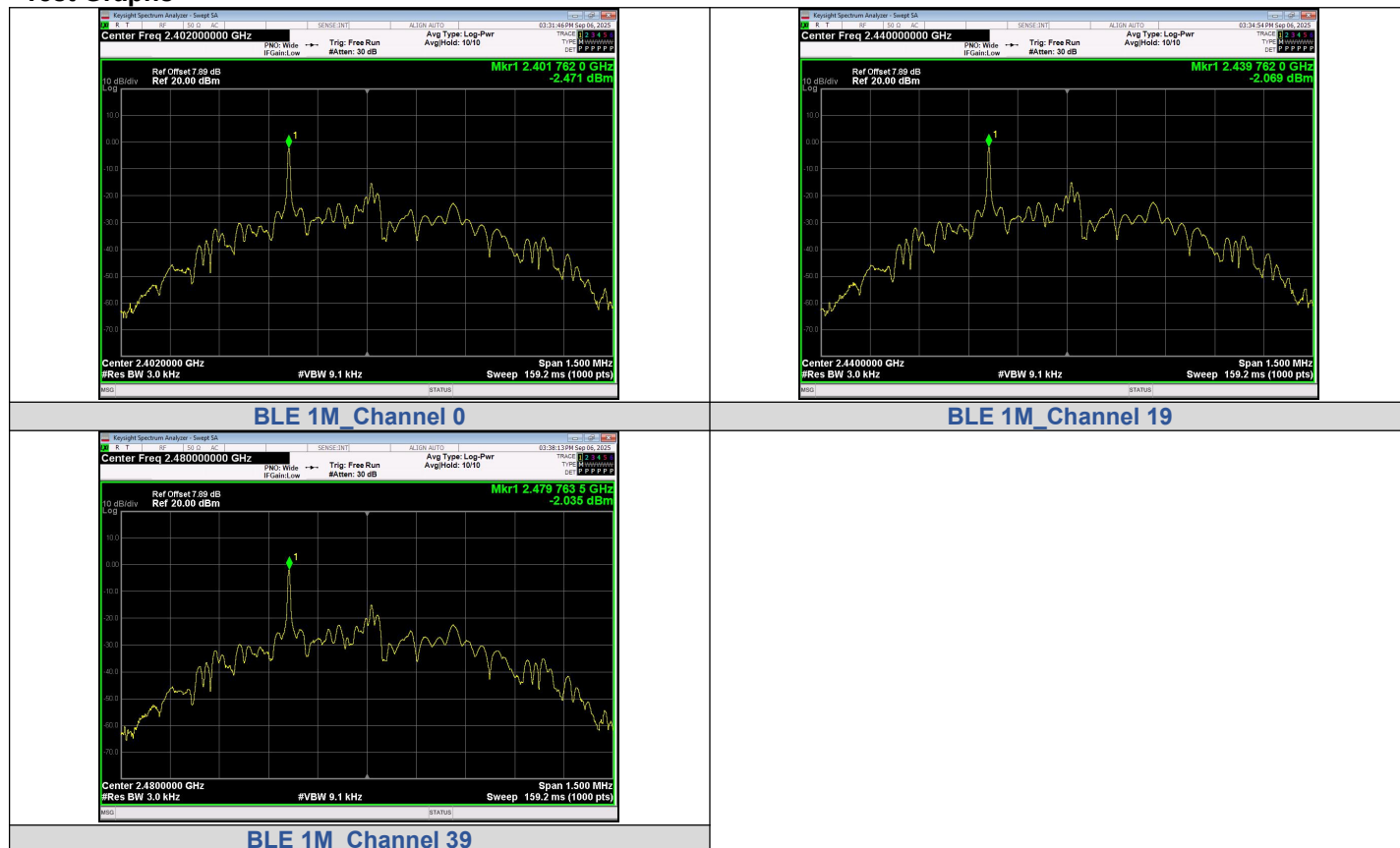
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## A.2 POWER SPECTRAL DENSITY

### Test Result

| Mode   | Channel | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|--------|---------|----------------|------------------|--------|
| BLE 1M | 0       | -2.471         | ≤8               | PASS   |
| BLE 1M | 19      | -2.069         | ≤8               | PASS   |
| BLE 1M | 39      | -2.035         | ≤8               | PASS   |

### Test Graphs





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## A.3 CONDUCTED PEAK OUTPUT POWER

### Test Result

| Mode   | Channel | Peak Output Power (dBm) | Peak Output Power (mW) | Max. Avg. Power (dBm) | Limit (dBm) | Result |
|--------|---------|-------------------------|------------------------|-----------------------|-------------|--------|
| BLE 1M | 0       | -0.78                   | 0.84                   | None                  | ≤30         | PASS   |
|        | 19      | -0.47                   | 0.9                    | None                  | ≤30         | PASS   |
|        | 39      | -0.39                   | 0.91                   | None                  | ≤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



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## A.4 99% BANDWIDTH

### Test Result

| Mode   | Channel | Center Frequency (MHz) | 99% BW (MHz) |
|--------|---------|------------------------|--------------|
| BLE 1M | 0       | 2402                   | 0.95759      |
| BLE 1M | 19      | 2440                   | 0.95782      |
| BLE 1M | 39      | 2480                   | 0.95813      |

### Test Graphs



BLE 1M\_Channel 0



BLE 1M\_Channel 19



BLE 1M\_Channel 39



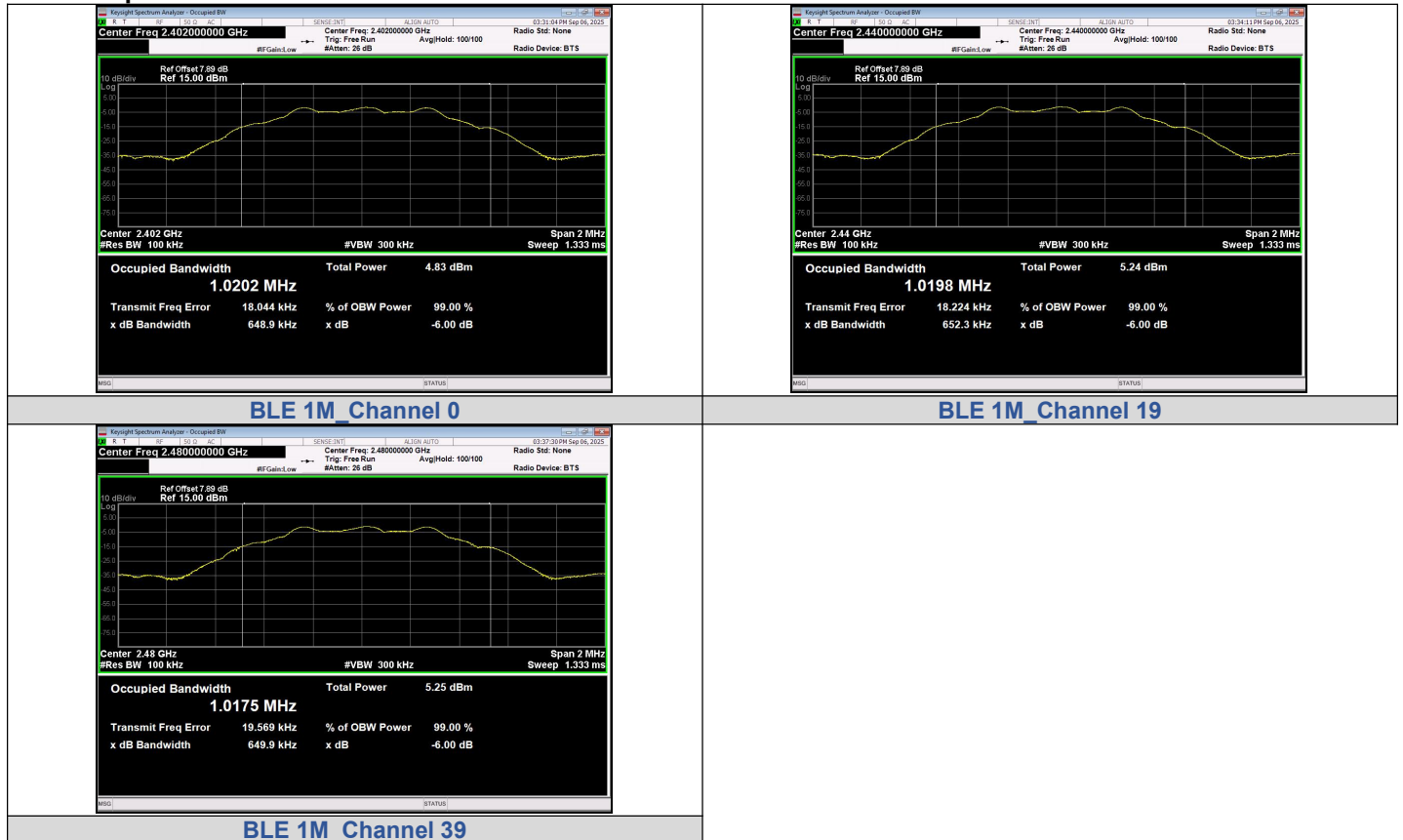
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## A.5 6DB BANDWIDTH

### Test Result

| Mode   | Channel | Center Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |
|--------|---------|------------------------|----------------------|-------------|--------|
| BLE 1M | 0       | 2402                   | 0.6500               | ≥0.5        | PASS   |
|        | 19      | 2440                   | 0.6500               |             | PASS   |
|        | 39      | 2480                   | 0.6500               |             | PASS   |

### Test Graphs





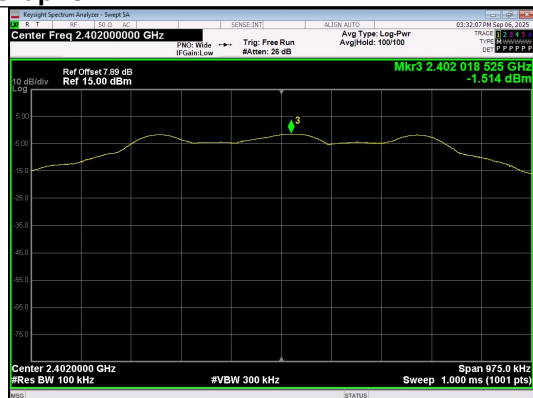
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## A.6 CONDUCTED OUT OF BAND EMISSION

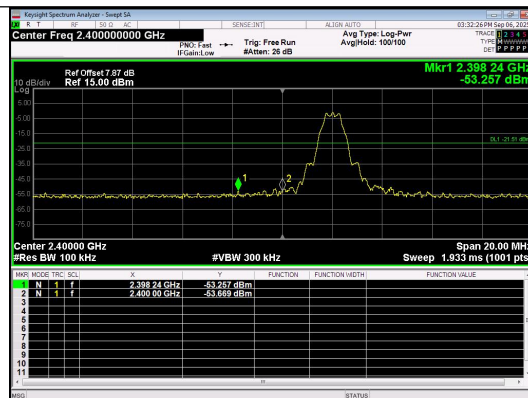
### Test Result

| Mode   | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|--------|---------|------------------------------|--------------------------|-------------|-----------------|--------|
| BLE 1M | 0       | 2398.24                      | -53.257                  | -21.51      | -31.747         | PASS   |
|        |         | 2400.00                      | -53.670                  | -21.51      | -32.160         | PASS   |
|        |         | 4803.80                      | -39.245                  | -21.51      | -17.735         | PASS   |
|        | 19      | 4879.30                      | -34.936                  | -21.15      | -13.786         | PASS   |
|        | 39      | 2483.50                      | -56.050                  | -21.11      | -34.940         | PASS   |
|        |         | 4959.83                      | -38.285                  | -21.11      | -17.175         | PASS   |

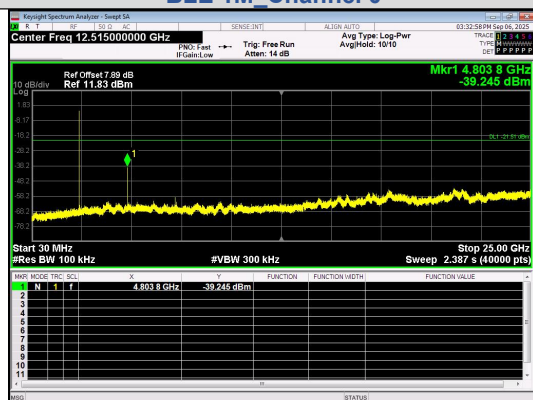
### Test Graphs



In-Band Reference Level  
BLE 1M\_Channel 0



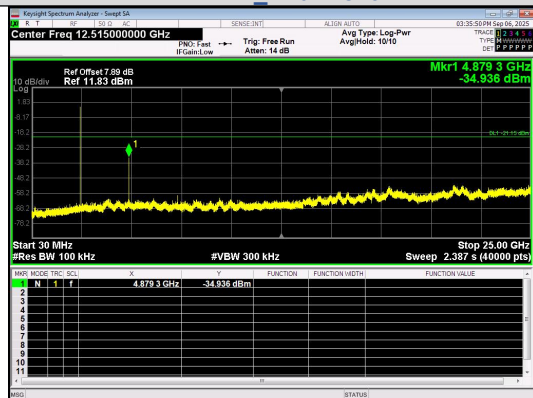
Out Of Band Emission  
BLE 1M\_Channel 0



30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 0



In-Band Reference Level  
BLE 1M\_Channel 19



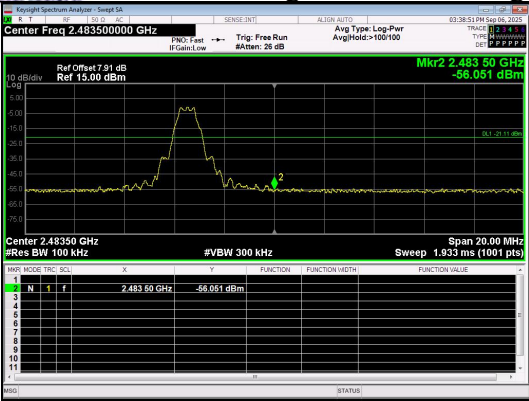
30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 19



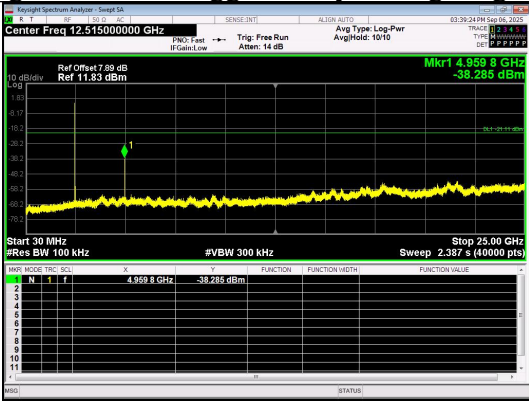
In-Band Reference Level  
BLE 1M\_Channel 39



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Out Of Band Emission  
BLE 1M\_Channel 39



30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 39