

## Appendix A\_Conduction Data for BLE:

### 1.Conducted Peak Output Power

Test Result

| Mode   | Channel | Peak Output Power (dBm) | Peak Output Power Limit (dBm) | Result |
|--------|---------|-------------------------|-------------------------------|--------|
| BLE 1M | 0       | -4.43                   | ≤30                           | PASS   |
|        | 19      | -4.74                   | ≤30                           | PASS   |
|        | 39      | -4.90                   | ≤30                           | PASS   |
| BLE 2M | 0       | <b>-4.39</b>            | ≤30                           | PASS   |
|        | 19      | -4.69                   | ≤30                           | PASS   |
|        | 39      | -4.80                   | ≤30                           | PASS   |

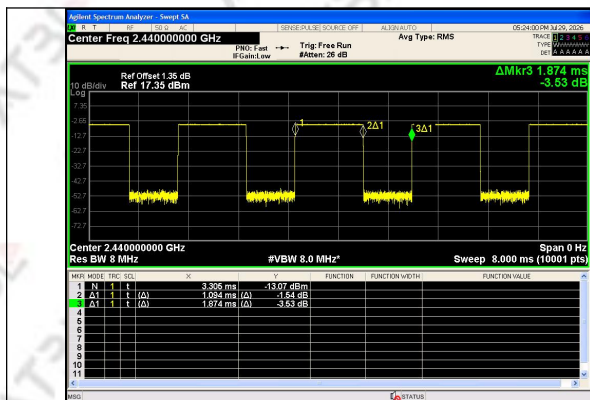
## 2.Duty Cycle

### Test Result

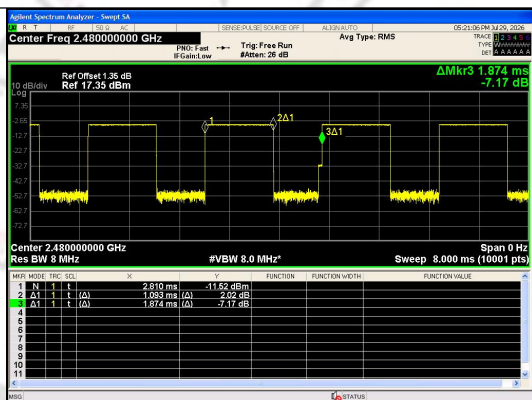
| Mode   | Channel | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle (linear) | Duty Cycle Factor (dB) |
|--------|---------|--------------|-------------|----------------|---------------------|------------------------|
| BLE 1M | 0       | 0.405        | 0.625       | 64.89          | 0.6489              | 1.8782                 |
|        | 19      | 0.406        | 0.625       | 64.94          | 0.6494              | 1.8749                 |
|        | 39      | 0.406        | 0.625       | 64.94          | 0.6494              | 1.8749                 |
| BLE 2M | 0       | 1.093        | 1.874       | 58.30          | 0.5830              | 2.3433                 |
|        | 19      | 1.094        | 1.874       | 58.34          | 0.5834              | 2.3403                 |
|        | 39      | 1.093        | 1.874       | 58.33          | 0.5833              | 2.3411                 |

### Test Graphs





BLE 2M Channel 19



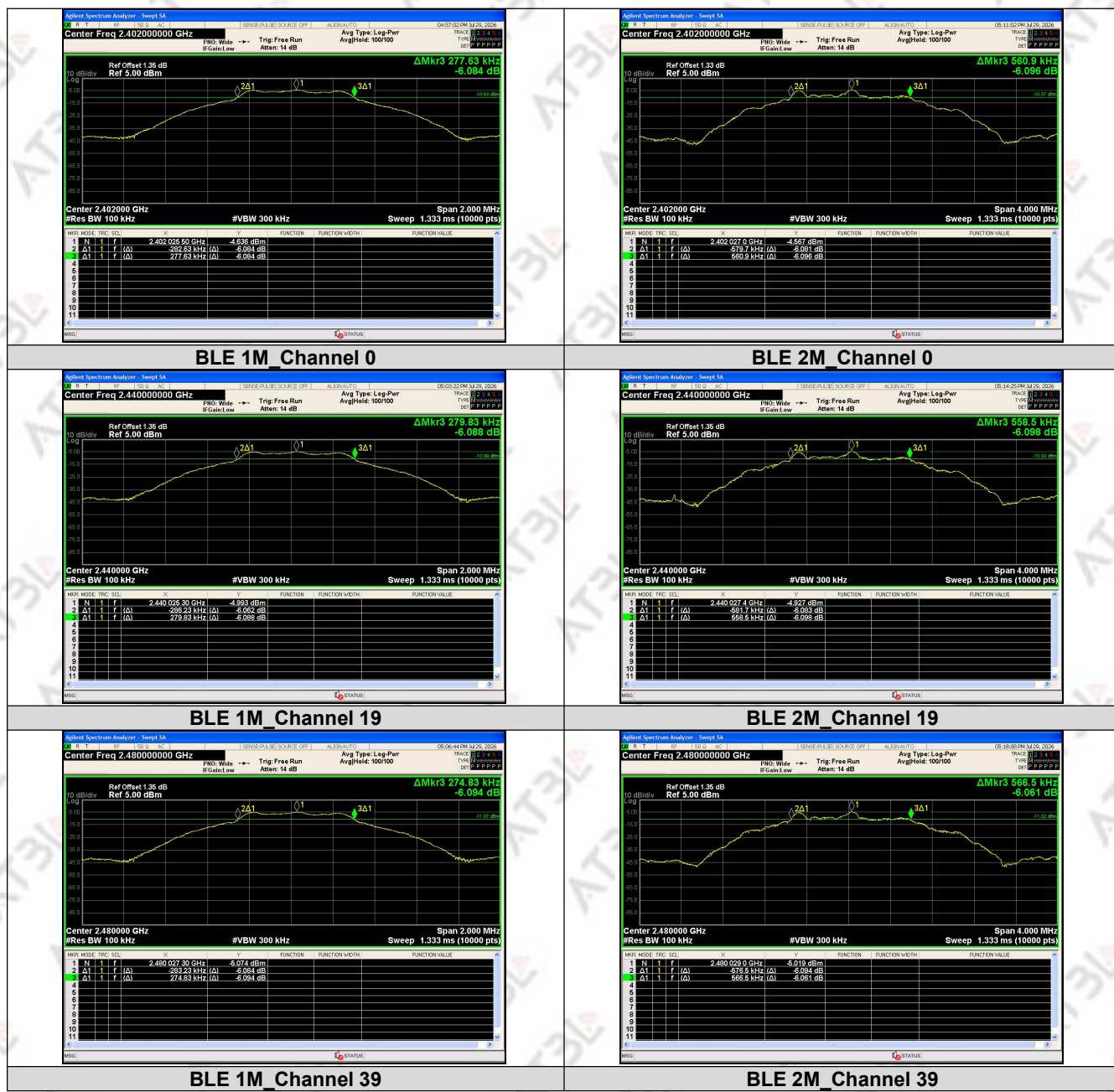
BLE 2M Channel 39

### 3.6dB Bandwidth and 99% Bandwidth

#### Test Result

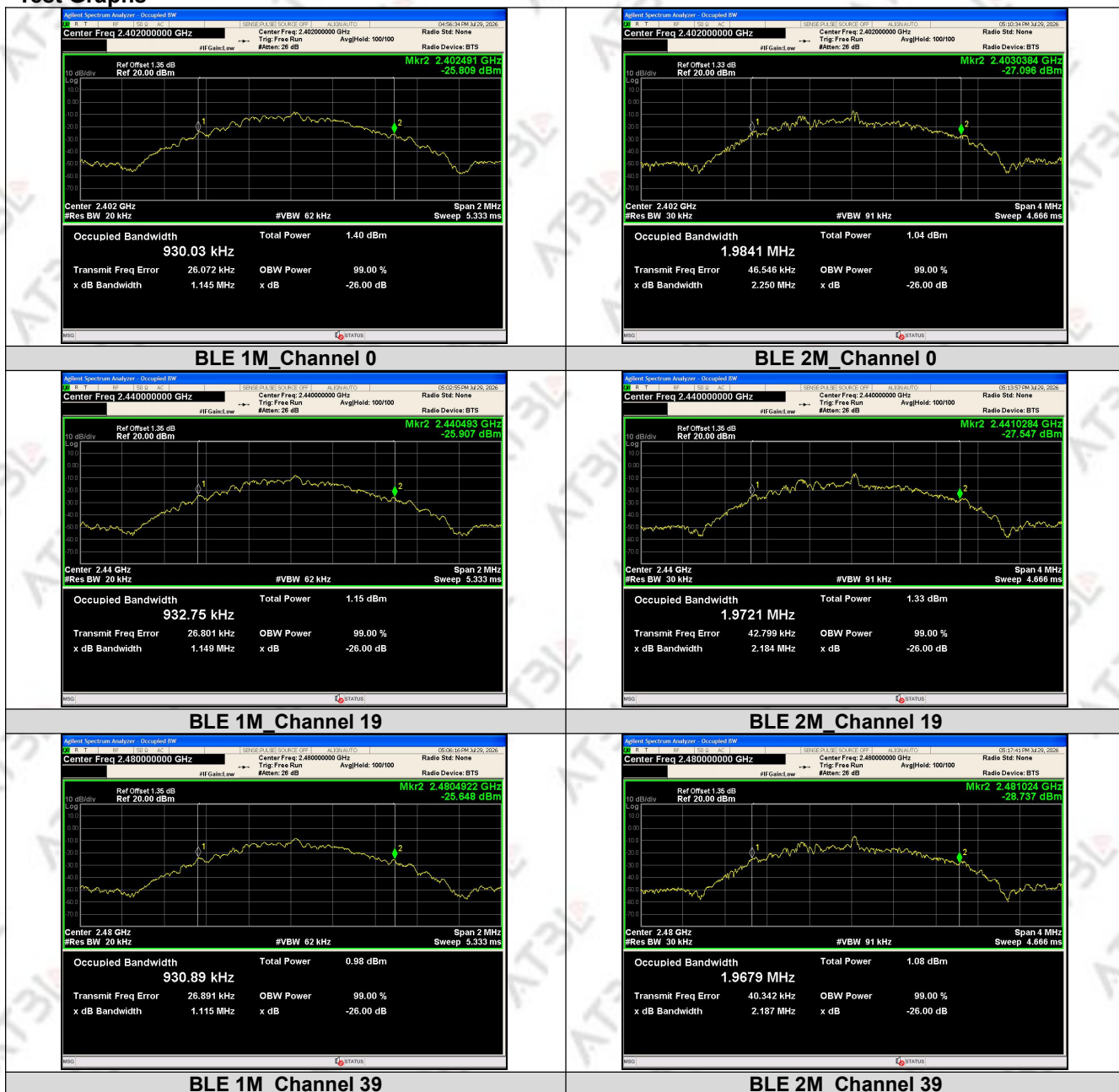
| Mode   | Channel | Center Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |
|--------|---------|------------------------|----------------------|-------------|--------|
| BLE 1M | 0       | 2402                   | 0.5600               | ≥0.5        | PASS   |
|        | 19      | 2440                   | 0.5700               |             | PASS   |
|        | 39      | 2480                   | 0.5600               |             | PASS   |
| BLE 2M | 0       | 2402                   | 1.140                |             | PASS   |
|        | 19      | 2440                   | 1.140                |             | PASS   |
|        | 39      | 2480                   | 1.150                |             | PASS   |

#### Test Graphs



| Mode   | Channel | Center Frequency (MHz) | 99% BW (MHz) |
|--------|---------|------------------------|--------------|
| BLE 1M | 0       | 2402                   | 0.93003      |
| BLE 1M | 19      | 2440                   | 0.93275      |
| BLE 1M | 39      | 2480                   | 0.93089      |
| BLE 2M | 1       | 2404                   | 1.9841       |
| BLE 2M | 19      | 2440                   | 1.9721       |
| BLE 2M | 38      | 2478                   | 1.9679       |

### Test Graphs

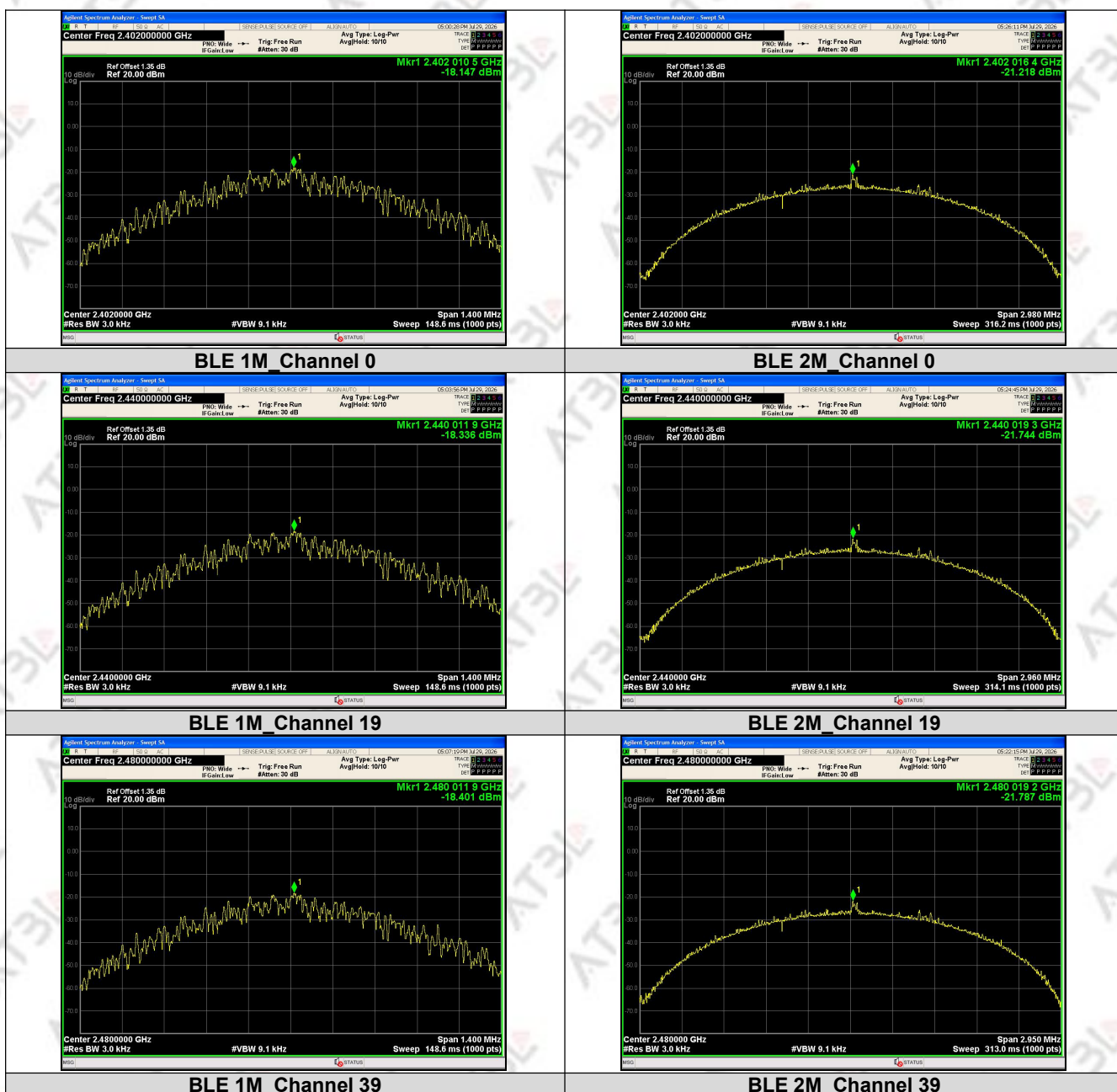


## 4.Power Spectral Density

### Test Result

| Mode   | Channel | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|--------|---------|----------------|------------------|--------|
| BLE 1M | 0       | -18.15         | ≤8               | PASS   |
| BLE 1M | 19      | -18.34         | ≤8               | PASS   |
| BLE 1M | 39      | -18.40         | ≤8               | PASS   |
| BLE 2M | 0       | -21.22         | ≤8               | PASS   |
| BLE 2M | 19      | -21.74         | ≤8               | PASS   |
| BLE 2M | 39      | -21.79         | ≤8               | PASS   |

### Test Graphs

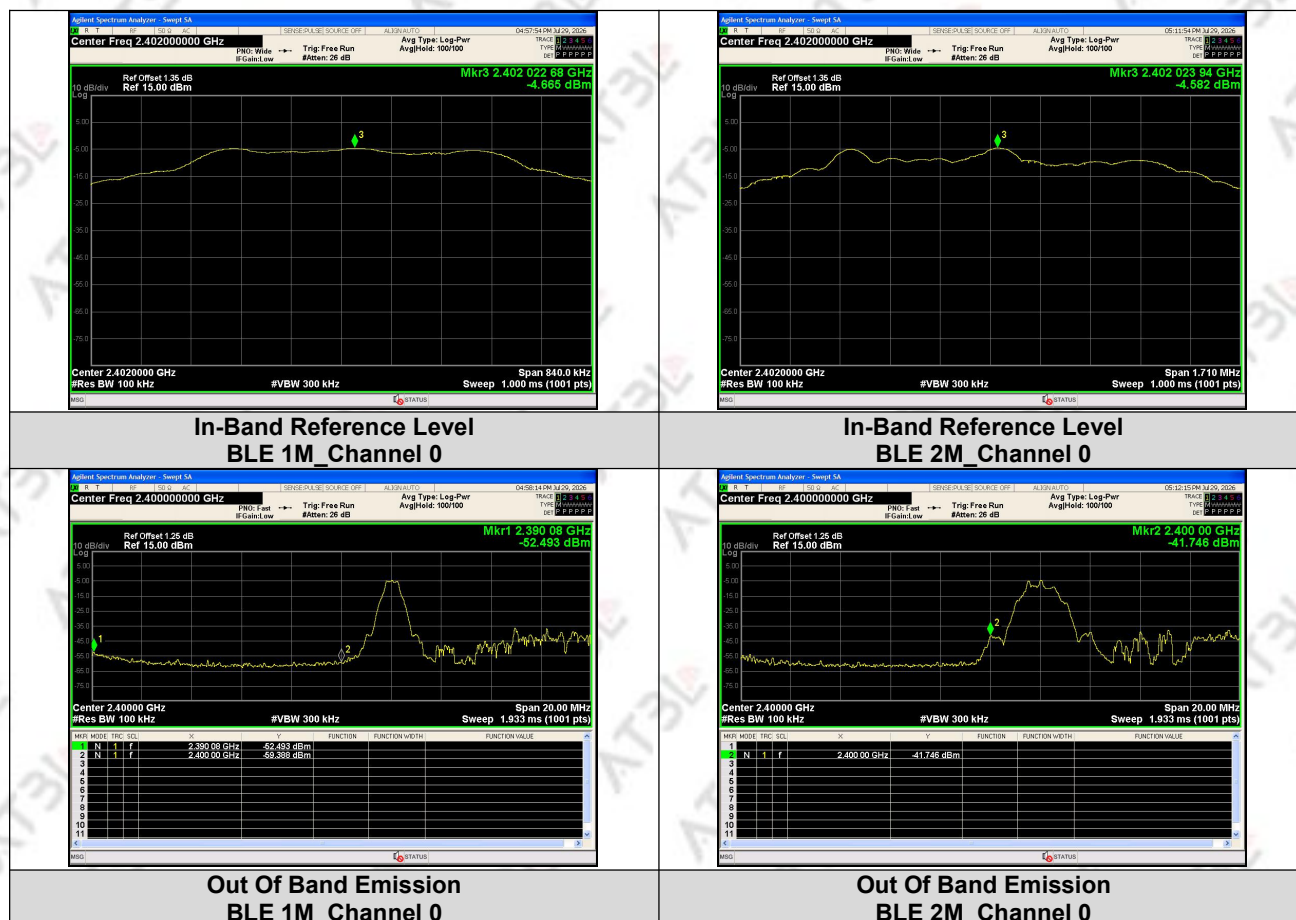


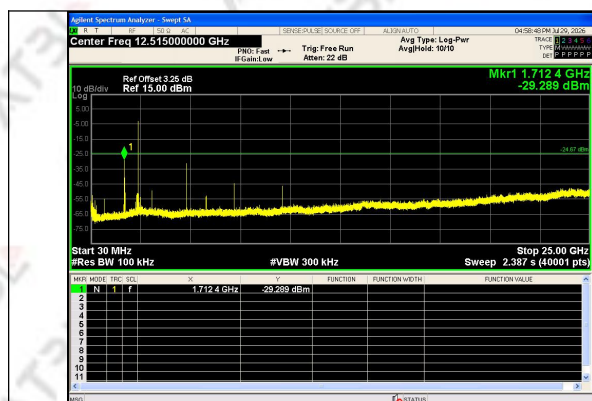
## 5. Conducted Spurious & Band Edge Emission

### Test Result

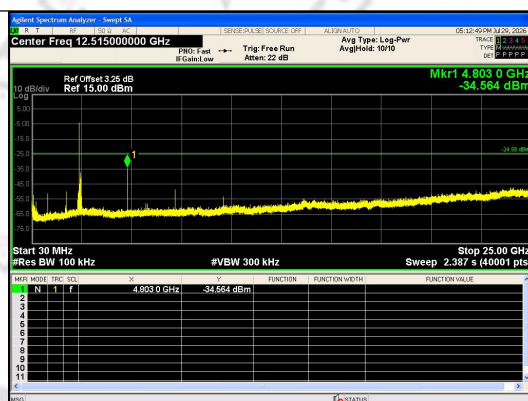
| Mode   | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|--------|---------|------------------------------|--------------------------|-------------|-----------------|--------|
| BLE 1M | 0       | 1712.40                      | -29.290                  | -24.67      | -4.619          | PASS   |
|        |         | 2390.08                      | -52.493                  | -24.67      | -27.823         | PASS   |
|        |         | 2400.00                      | -59.388                  | -24.67      | -34.718         | PASS   |
|        | 19      | 4879.80                      | -32.858                  | -24.98      | -7.878          | PASS   |
|        |         | 2483.50                      | -60.385                  | -25.12      | -35.265         | PASS   |
|        | 39      | 4959.70                      | -34.620                  | -25.12      | -9.500          | PASS   |
| BLE 2M | 0       | 2400.00                      | -41.746                  | -24.58      | -17.166         | PASS   |
|        |         | 4803.02                      | -34.564                  | -24.58      | -9.984          | PASS   |
|        | 19      | 4879.80                      | -32.634                  | -24.89      | -7.744          | PASS   |
|        |         | 1711.73                      | -28.898                  | -25.02      | -3.878          | PASS   |
|        | 39      | 2483.50                      | -59.695                  | -25.02      | -34.675         | PASS   |
|        |         |                              |                          |             |                 |        |

### Test Graphs





30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 0



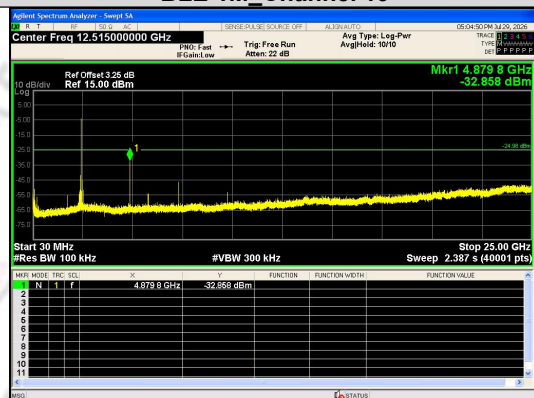
30.0 MHz - 25000.0 MHz  
BLE 2M\_Channel 0



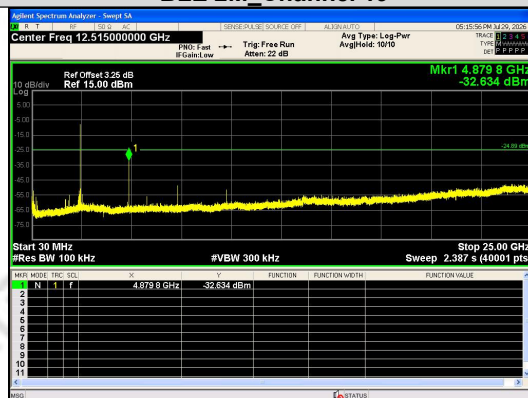
In-Band Reference Level  
BLE 1M\_Channel 19



In-Band Reference Level  
BLE 2M\_Channel 19



30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 19



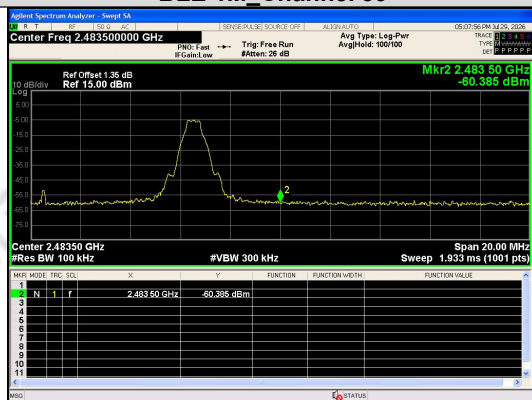
30.0 MHz - 25000.0 MHz  
BLE 2M\_Channel 19



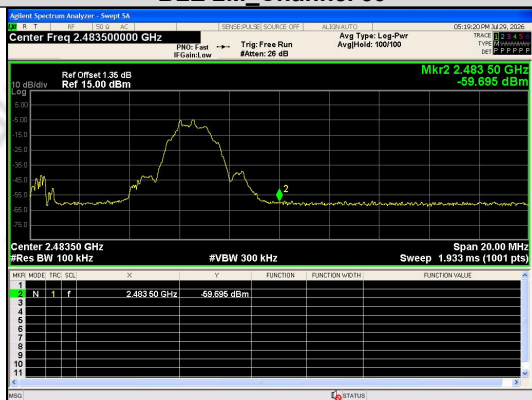
In-Band Reference Level  
BLE 1M\_Channel 39



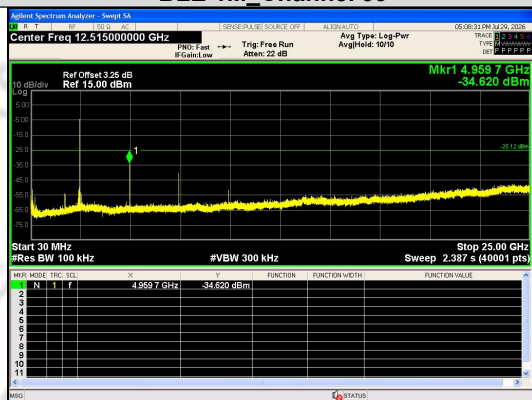
In-Band Reference Level  
BLE 2M\_Channel 39



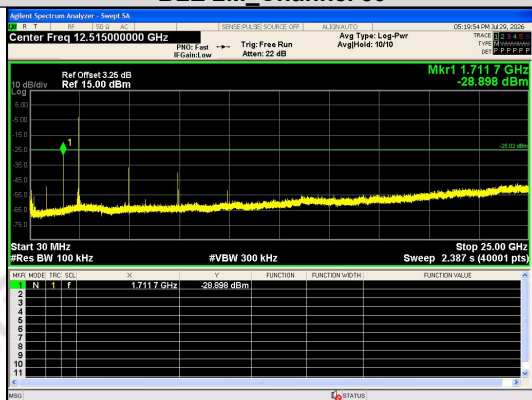
Out Of Band Emission  
BLE 1M\_Channel 39



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

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