

## Appendix Test Data for BT(BLE) (Conducted Measurement)

Product Name: 4K OTT BOX

Trade Mark: N/A

Test Model: SN6BKHE

FCC ID: 2AOVU-SN6BKHE

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 25.5°C    |
| Relative Humidity: | 55%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Anna Hu   |
| Supervised by:     | Hugo Chen |
| NOTE               | N/A       |

### Appendix A: DTS Bandwidth

#### Test Result

| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|--------------|----------|----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 0.608        | 2401.704 | 2402.312 | 0.5        | PASS    |
|          |         | 2440    | 0.644        | 2439.692 | 2440.336 | 0.5        | PASS    |
|          |         | 2480    | 0.680        | 2479.660 | 2480.340 | 0.5        | PASS    |

### Test Graphs

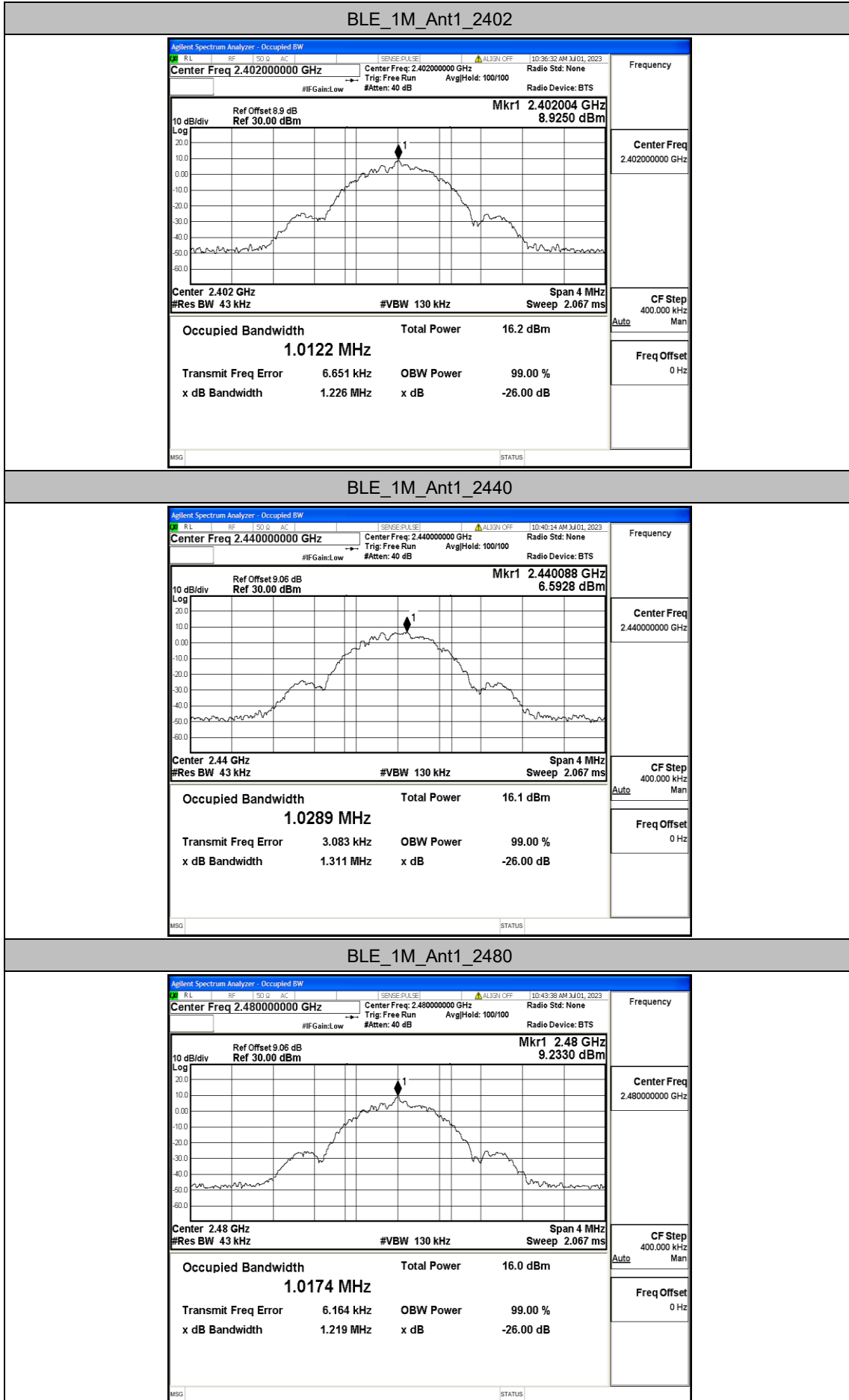


## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|-----------|-----------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 1.0122    | 2401.5006 | 2402.5128 | ---        | ---     |
|          |         | 2440    | 1.0289    | 2439.4886 | 2440.5175 | ---        | ---     |
|          |         | 2480    | 1.0174    | 2479.4975 | 2480.5149 | ---        | ---     |

### Test Graphs

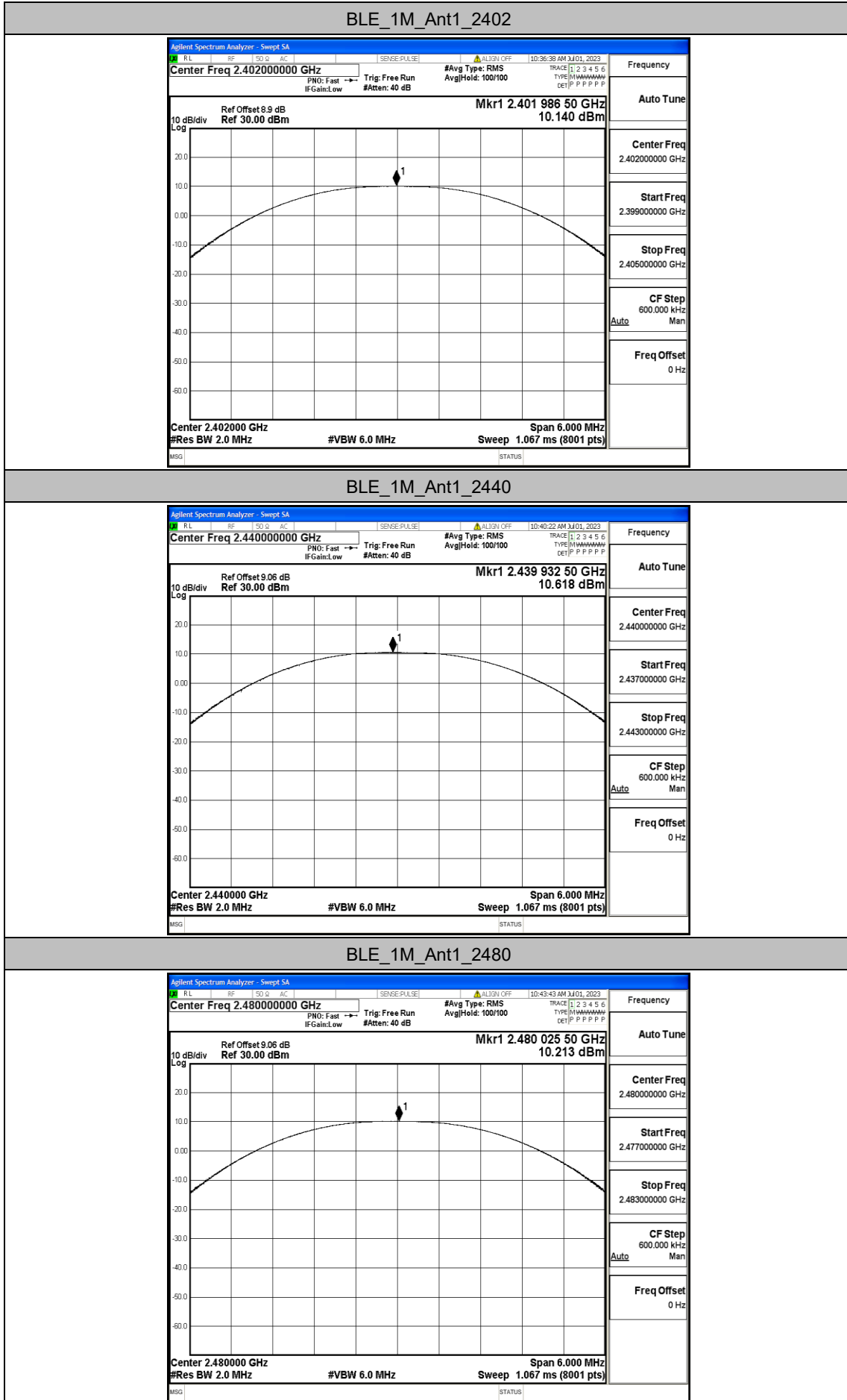


## Appendix C: Maximum Peak conducted output power

### Test Result

| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | 10.14       | ≤30        | PASS    |
|          |         | 2440    | 10.62       | ≤30        | PASS    |
|          |         | 2480    | 10.21       | ≤30        | PASS    |

### Test Graphs

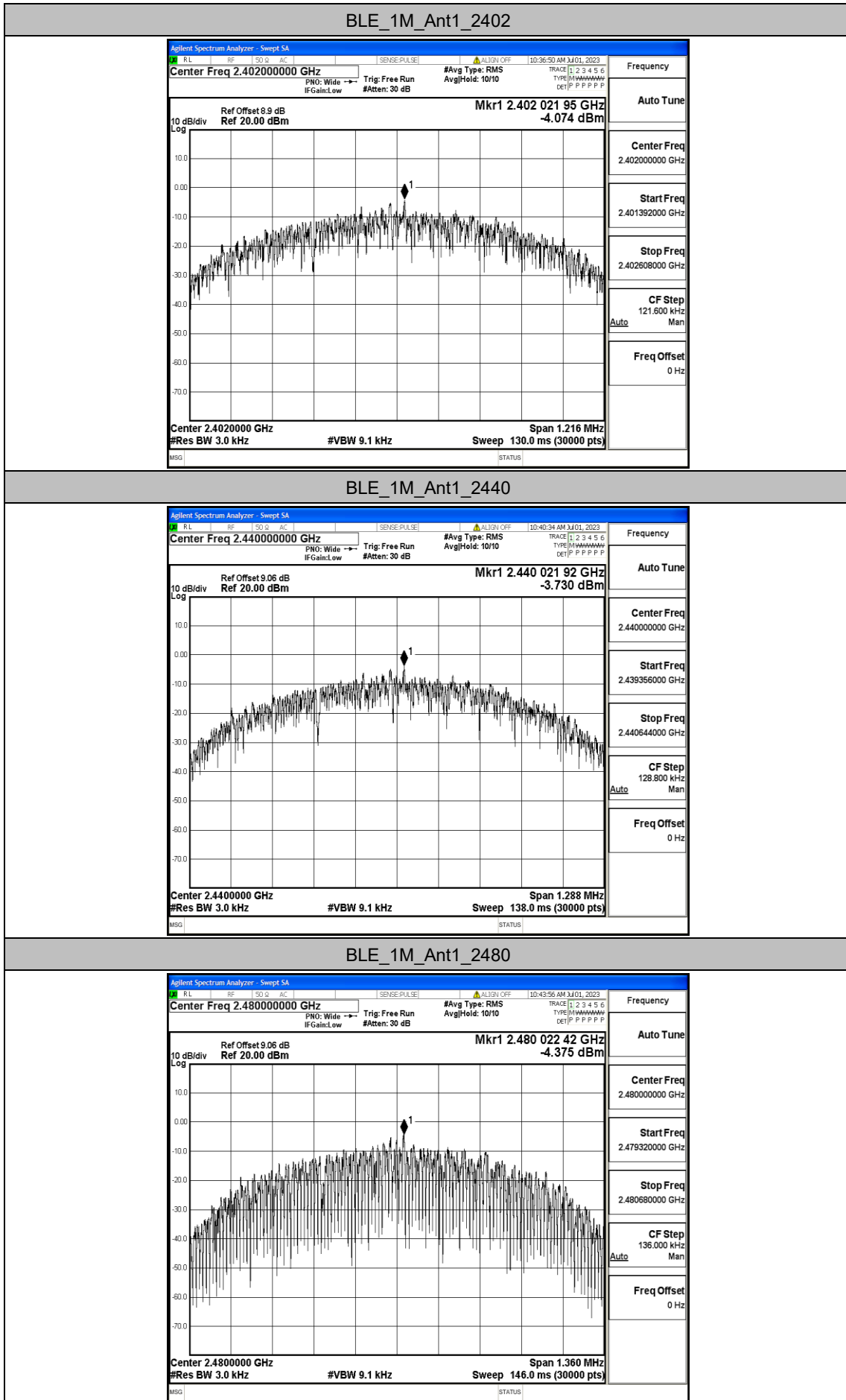


## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|----------------------|-----------------|---------|
| BLE_1M   | Ant1    | 2402    | -4.07                | ≤8.00           | PASS    |
|          |         | 2440    | -3.73                | ≤8.00           | PASS    |
|          |         | 2480    | -4.38                | ≤8.00           | PASS    |

### Test Graphs



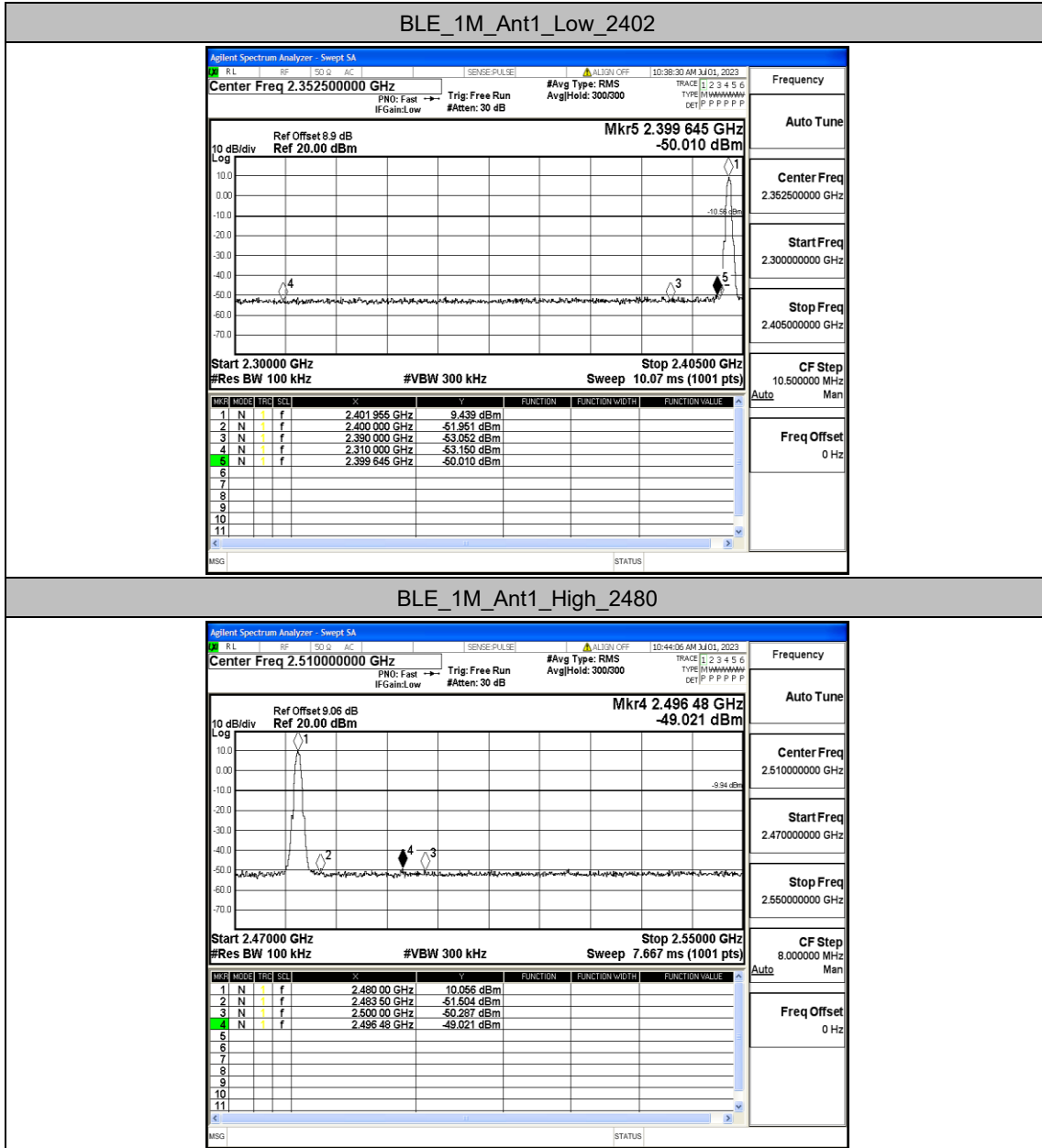


## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|---------|---------------|-------------|------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | 9.44          | -50.01      | ≤-10.56    | PASS    |
|          |         | High   | 2480    | 10.06         | -49.02      | ≤-9.94     | PASS    |

Test Graphs

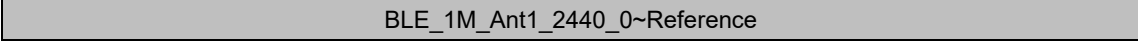
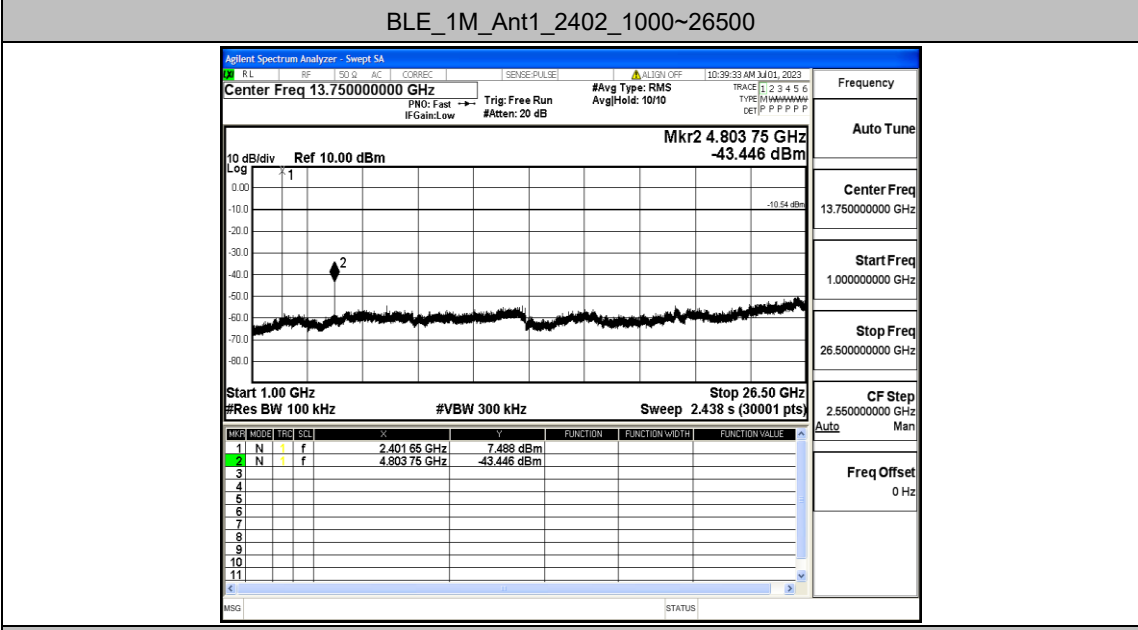
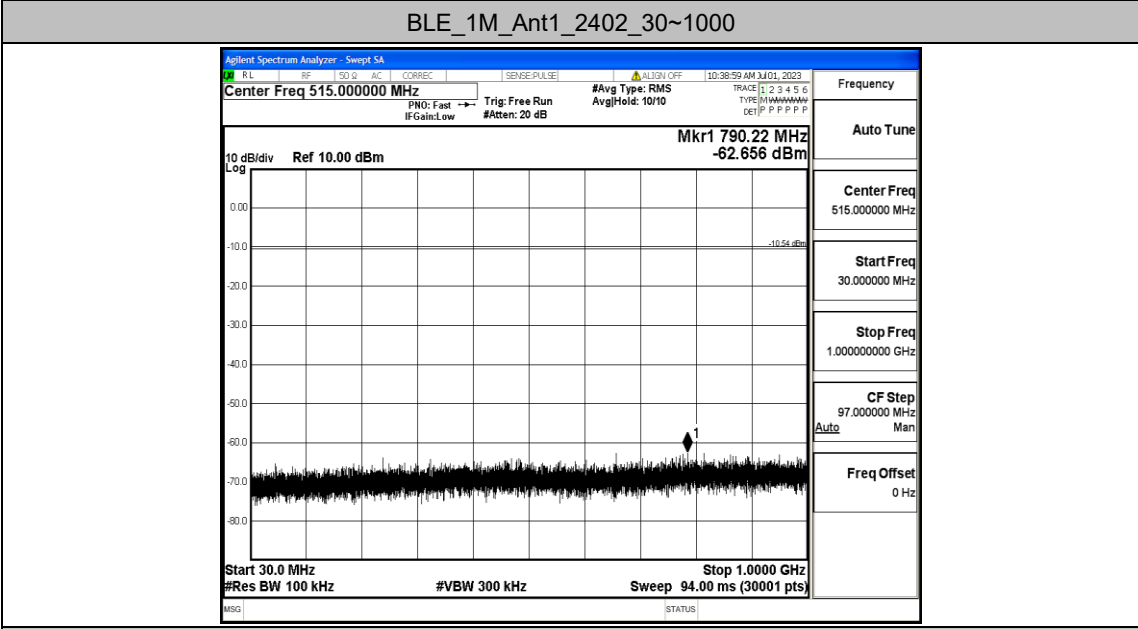
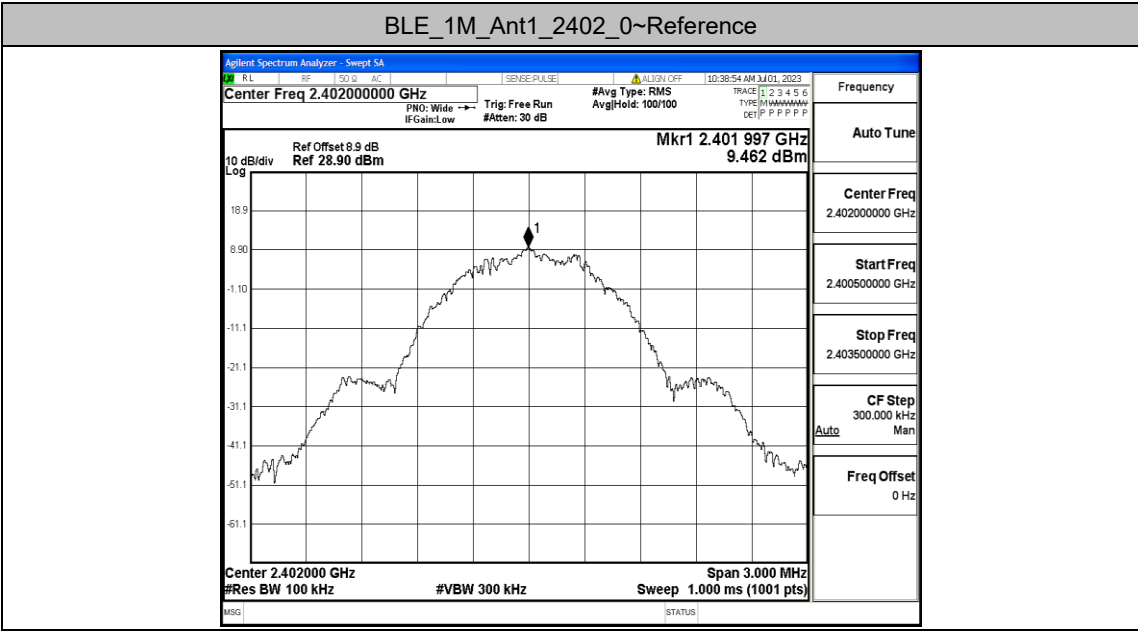


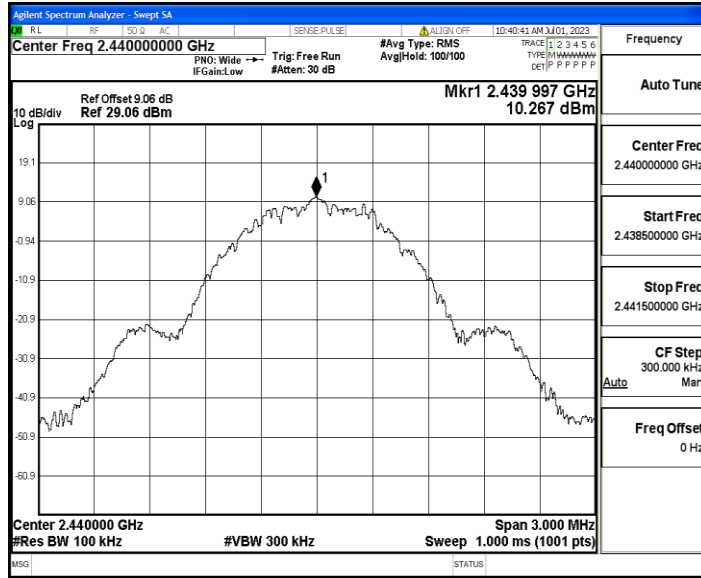
## Appendix F: Conducted Spurious Emission

### Test Result

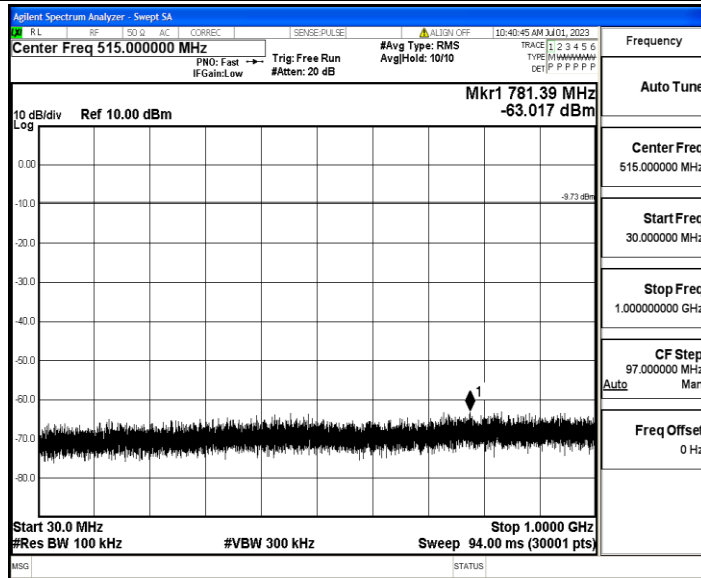
| TestMode | Antenna | Channel | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-----------------|----------------|-------------|------------|---------|
| BLE_1M   | Ant1    | 2402    | Reference       | 9.46           | 9.46        | ---        | PASS    |
|          |         |         | 30~1000         | 9.46           | -62.66      | ≤-10.54    | PASS    |
|          |         |         | 1000~26500      | 9.46           | -43.45      | ≤-10.54    | PASS    |
|          |         | 2440    | Reference       | 10.27          | 10.27       | ---        | PASS    |
|          |         |         | 30~1000         | 10.27          | -63.02      | ≤-9.73     | PASS    |
|          |         |         | 1000~26500      | 10.27          | -43.12      | ≤-9.73     | PASS    |
|          |         | 2480    | Reference       | 10.02          | 10.02       | ---        | PASS    |
|          |         |         | 30~1000         | 10.02          | -62.81      | ≤-9.98     | PASS    |
|          |         |         | 1000~26500      | 10.02          | -49.03      | ≤-9.98     | PASS    |

Test Graphs

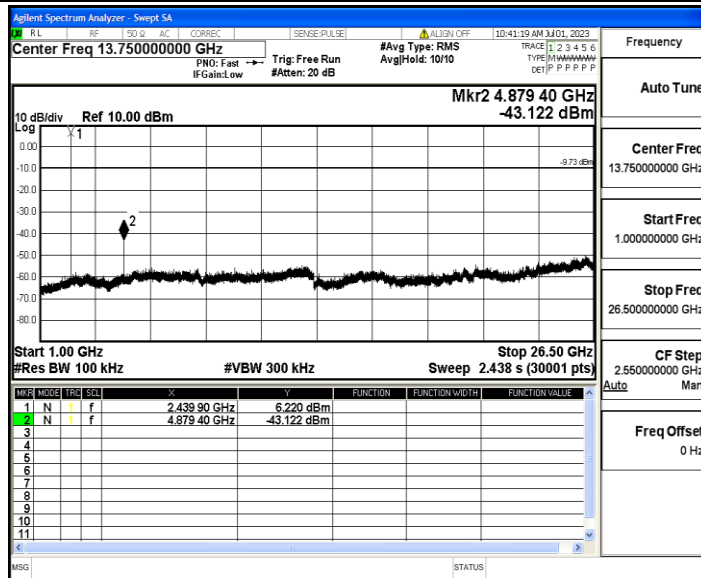




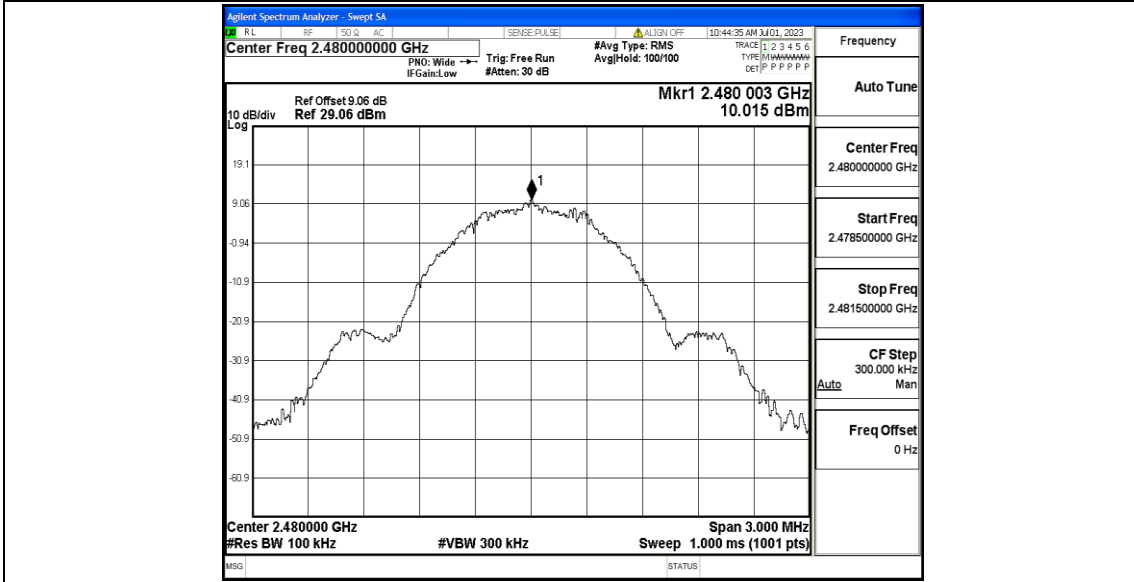
BLE\_1M\_Ant1\_2440\_30~1000



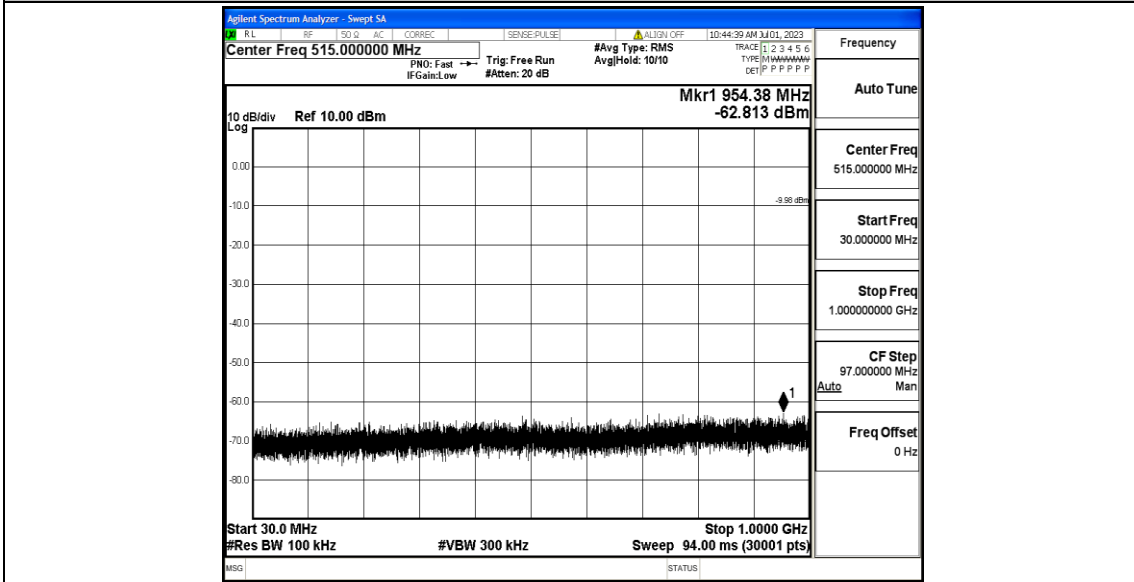
BLE\_1M\_Ant1\_2440\_1000~26500



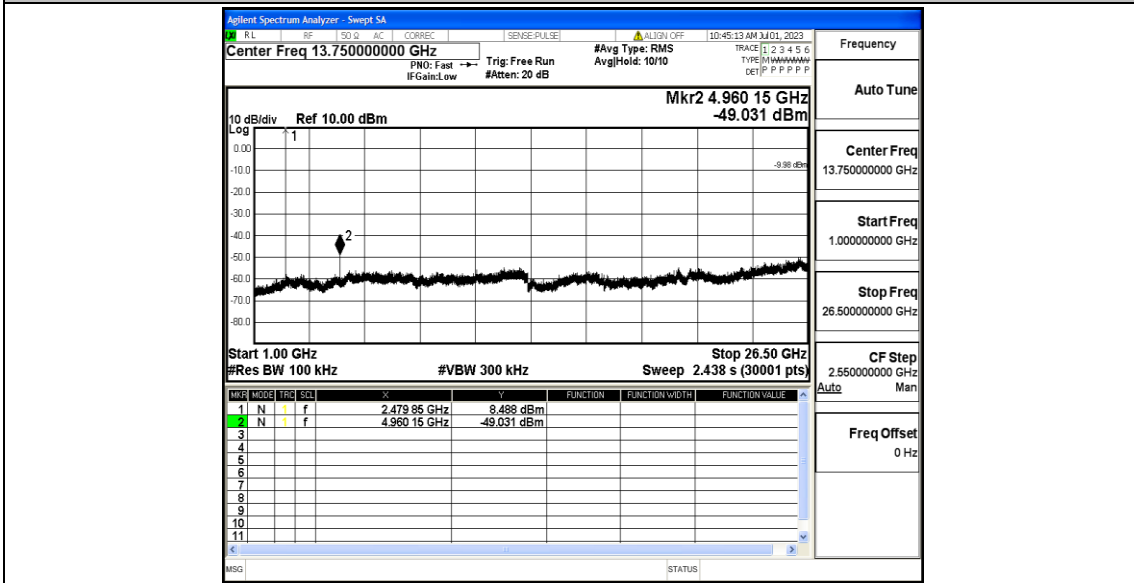
BLE\_1M\_Ant1\_2480\_0~Reference



BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

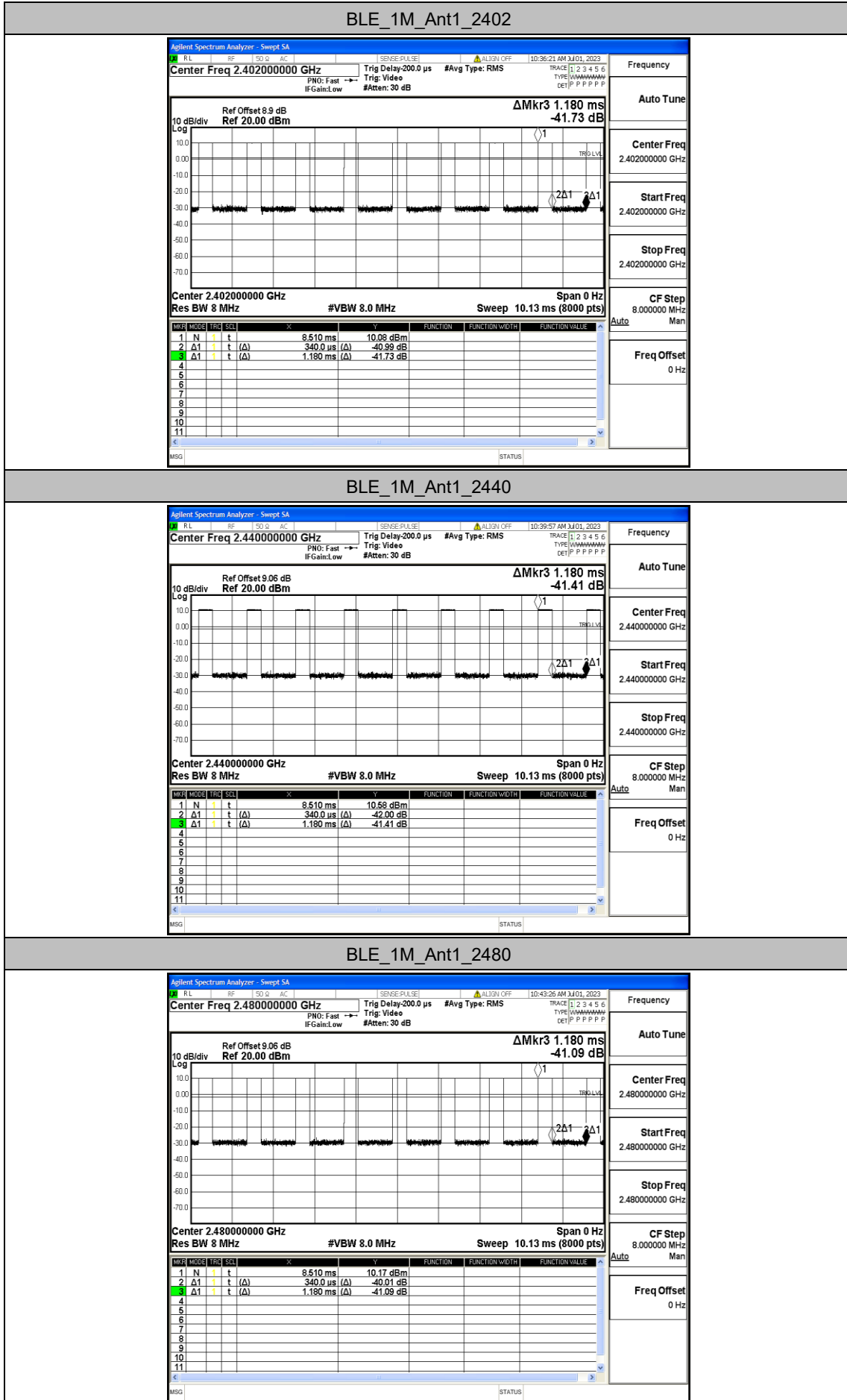


## Appendix G: Duty Cycle

### Test Result

| TestMode | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | 1/T[kHz] |
|----------|---------|---------|----------------------------|--------------------------|----------------|----------|
| BLE_1M   | Ant1    | 2402    | 0.34                       | 1.18                     | 28.81          | 2.94     |
|          |         | 2440    | 0.34                       | 1.18                     | 28.81          | 2.94     |
|          |         | 2480    | 0.34                       | 1.18                     | 28.81          | 2.94     |

### Test Graphs





## Appendix H: Emissions in Restricted Bands

### Test Result

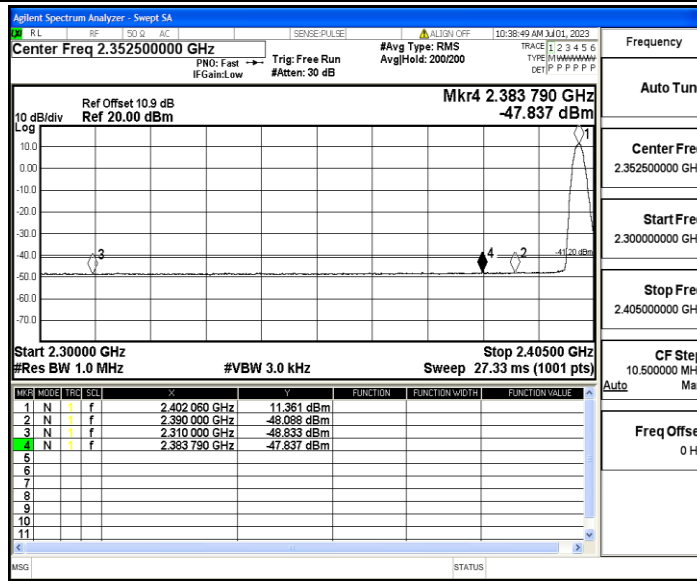
| TestMode | Antenna | ChName | Channel | Detector | Freq. [MHz] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|---------|----------|-------------|--------------|-------------|---------|
| BLE_1M   | Ant1    | Low    | 2402    | AV       | 2310.000    | -48.83       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2383.790    | -47.84       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2390.000    | -48.09       | ≤-41.20     | PASS    |
|          |         |        |         | Peak     | 2310.000    | -41.62       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2368.880    | -38.82       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2390.000    | -41.64       | ≤-21.20     | PASS    |
|          |         | High   | 2480    | AV       | 2483.500    | -43.79       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2483.520    | -43.79       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2500.000    | -47.85       | ≤-41.20     | PASS    |
|          |         |        |         | Peak     | 2483.500    | -40.79       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2494.720    | -37.96       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2500.000    | -40.17       | ≤-21.20     | PASS    |

#### Note:

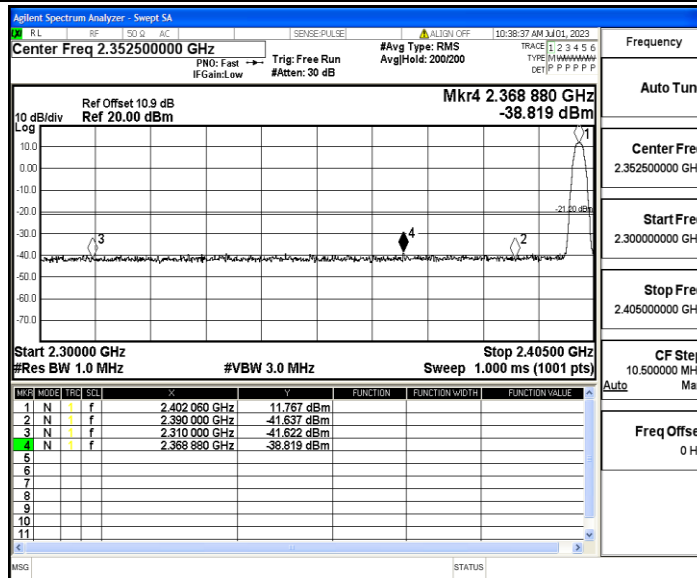
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

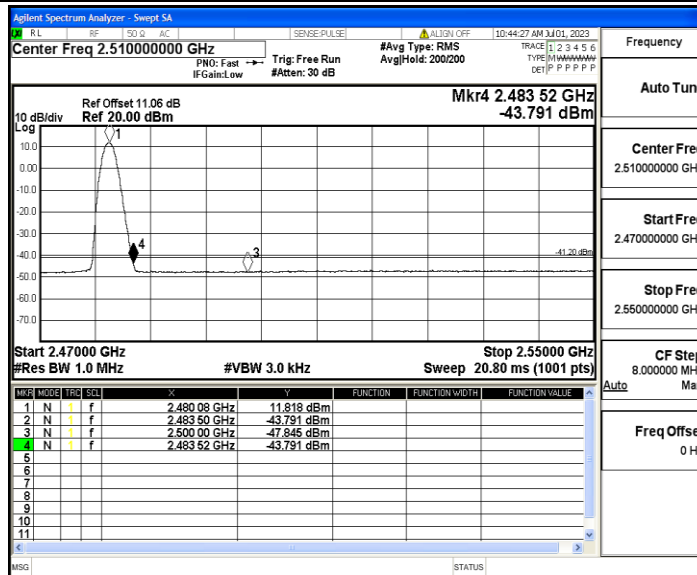
BLE\_1M\_Ant1\_Low\_2402\_AV



BLE\_1M\_Ant1\_Low\_2402\_Peak



BLE\_1M\_Ant1\_High\_2480\_AV



BLE\_1M\_Ant1\_High\_2480\_Peak

