

**Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)****Product Name: Wanbo Projector****Trade Mark: wanbo****Test Model: T4****FCC ID:2A7PIT4****Environmental Conditions**

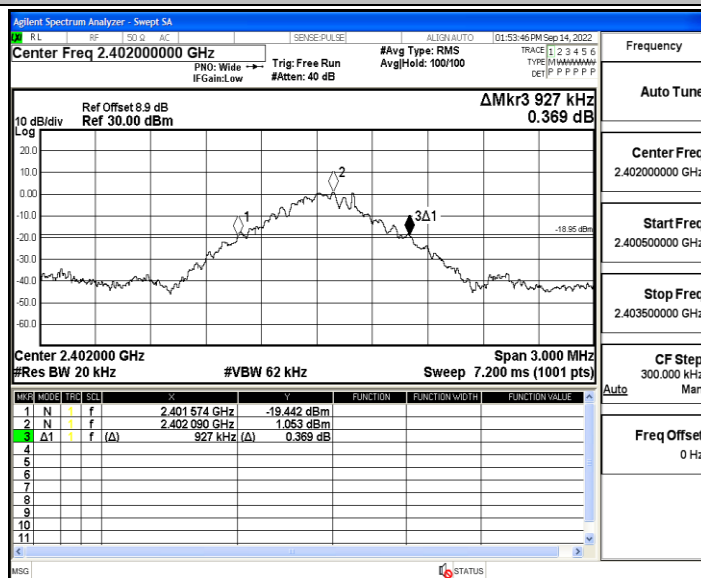
|                    |           |
|--------------------|-----------|
| Temperature:       | 25.5°C    |
| Relative Humidity: | 55%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Anna Hu   |
| Supervised by:     | Hugo Chen |
| NOTE               | N/A       |

**Appendix A: 20dB Emission Bandwidth****Test Result**

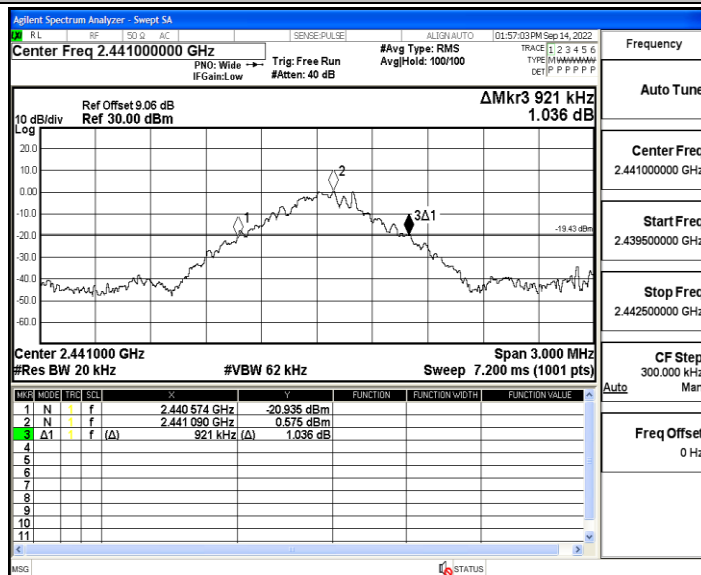
| TestMode | Antenna | Channel | 20db<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|------------------|----------|----------|------------|---------|
| DH5      | Ant0    | 2402    | 0.927            | 2401.574 | 2402.501 | ---        | ---     |
|          |         | 2441    | 0.921            | 2440.574 | 2441.495 | ---        | ---     |
|          |         | 2480    | 0.879            | 2479.586 | 2480.465 | ---        | ---     |
| 2DH5     | Ant0    | 2402    | 1.263            | 2401.388 | 2402.651 | ---        | ---     |
|          |         | 2441    | 1.266            | 2440.391 | 2441.657 | ---        | ---     |
|          |         | 2480    | 1.269            | 2479.385 | 2480.654 | ---        | ---     |
| 3DH5     | Ant0    | 2402    | 1.281            | 2401.382 | 2402.663 | ---        | ---     |
|          |         | 2441    | 1.326            | 2440.361 | 2441.687 | ---        | ---     |
|          |         | 2480    | 1.302            | 2479.382 | 2480.684 | ---        | ---     |

## Test Graphs

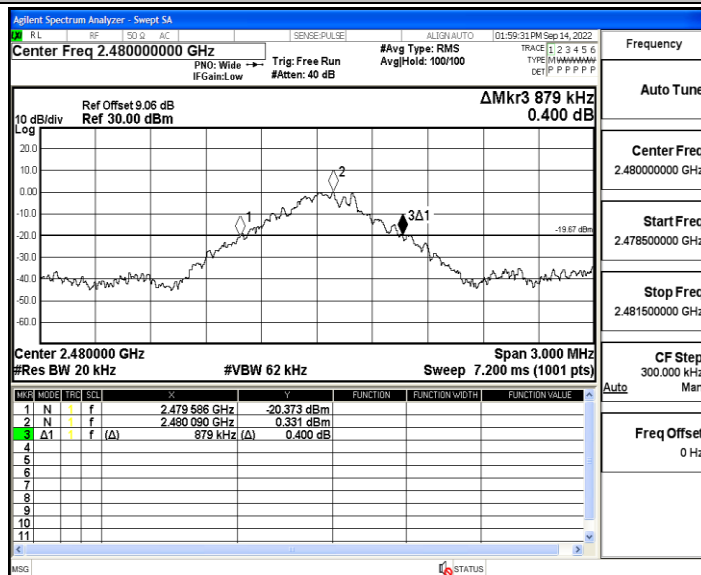
DH5\_Ant0\_2402



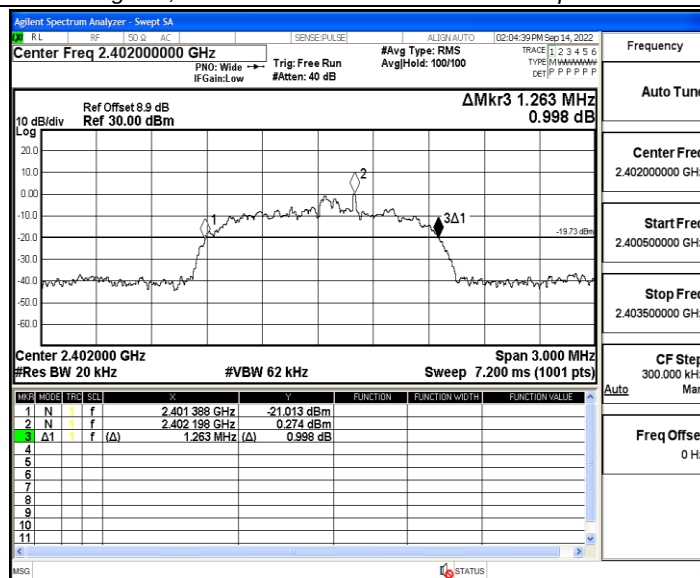
DH5\_Ant0\_2441



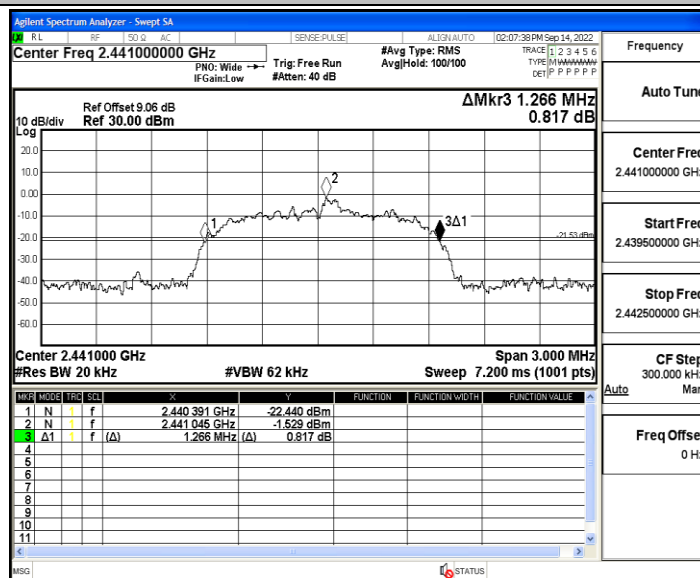
DH5\_Ant0\_2480



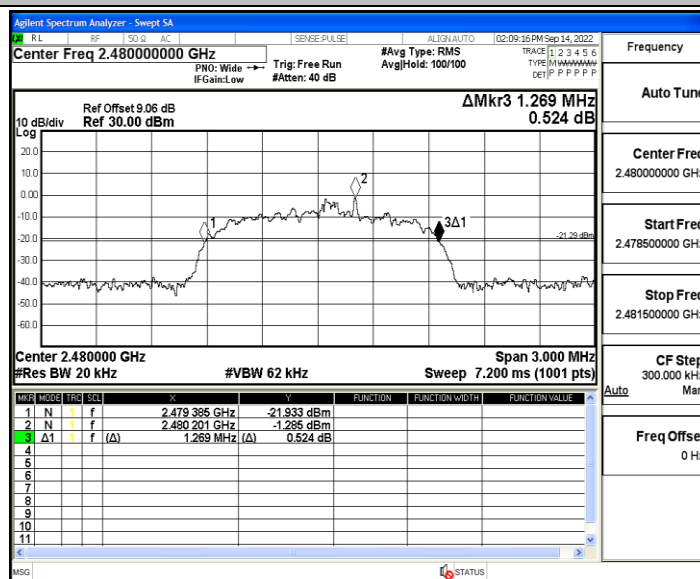
2DH5\_Ant0\_2402



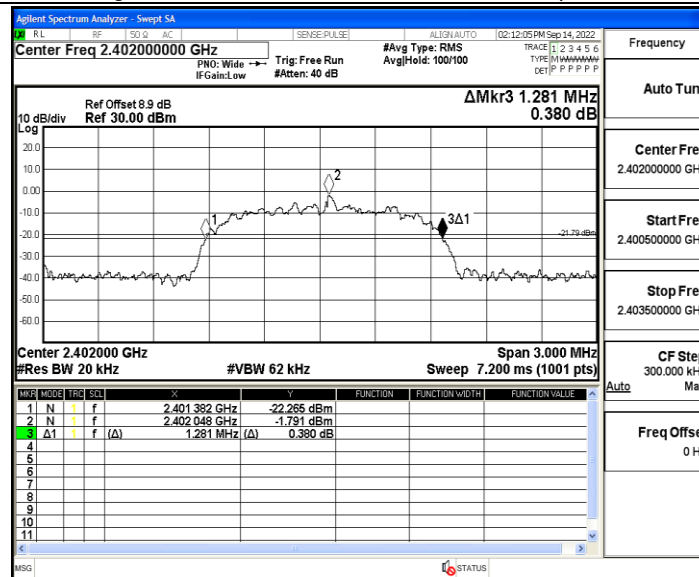
2DH5\_Ant0\_2441



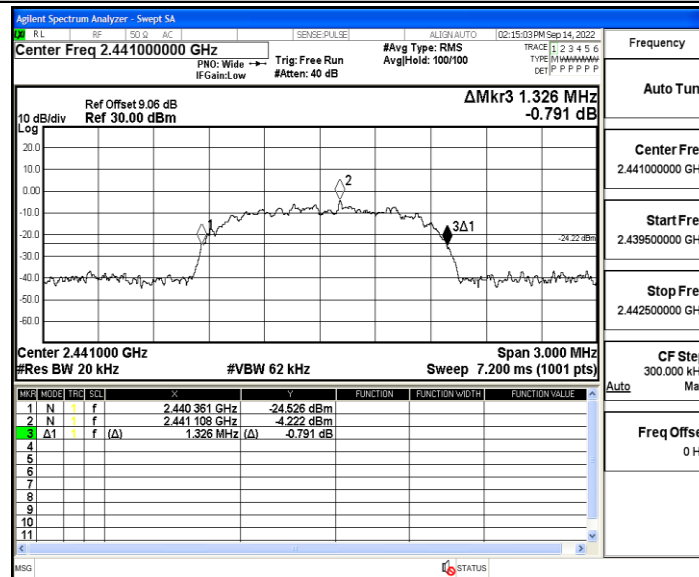
2DH5\_Ant0\_2480



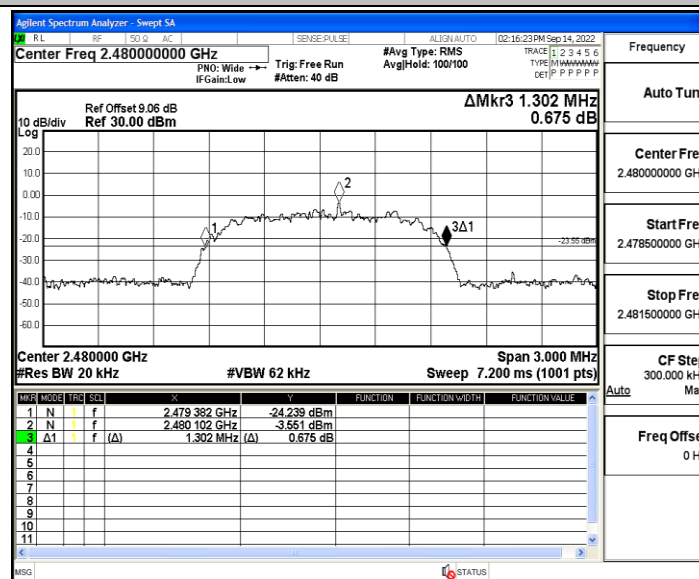
3DH5\_Ant0\_2402



## 3DH5\_Ant0\_2441



## 3DH5\_Ant0\_2480



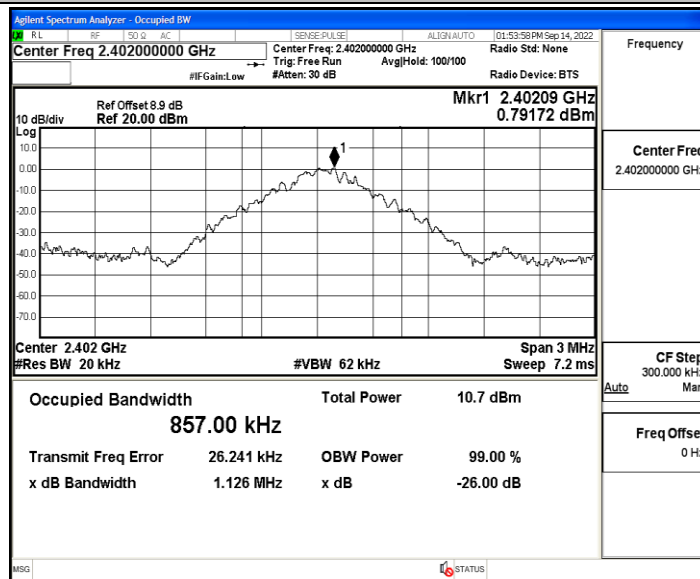
## Appendix B: Occupied Channel Bandwidth

### Test Result

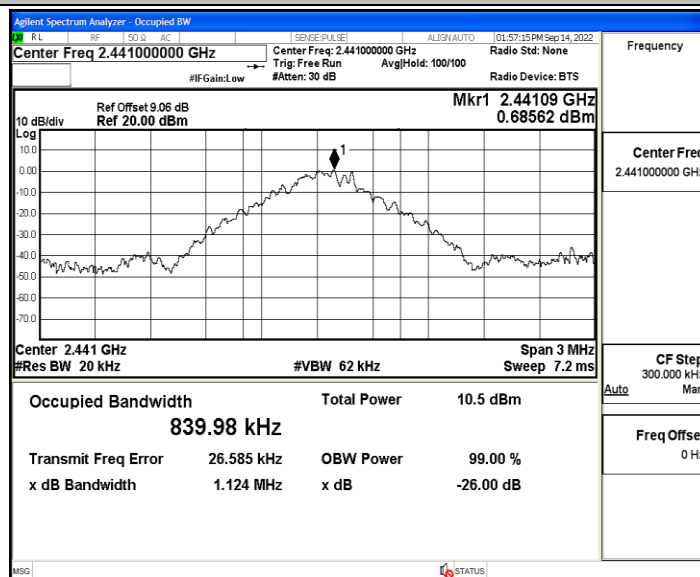
| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| DH5      | Ant0    | 2402    | 0.85700   | 2401.598 | 2402.455 | ---        | ---     |
|          |         | 2441    | 0.83998   | 2440.607 | 2441.447 | ---        | ---     |
|          |         | 2480    | 0.86415   | 2479.601 | 2480.465 | ---        | ---     |
| 2DH5     | Ant0    | 2402    | 1.1889    | 2401.429 | 2402.618 | ---        | ---     |
|          |         | 2441    | 1.1685    | 2440.445 | 2441.614 | ---        | ---     |
|          |         | 2480    | 1.1816    | 2479.436 | 2480.618 | ---        | ---     |
| 3DH5     | Ant0    | 2402    | 1.1783    | 2401.437 | 2402.615 | ---        | ---     |
|          |         | 2441    | 1.1846    | 2440.434 | 2441.618 | ---        | ---     |
|          |         | 2480    | 1.1893    | 2479.430 | 2480.619 | ---        | ---     |

## Test Graphs

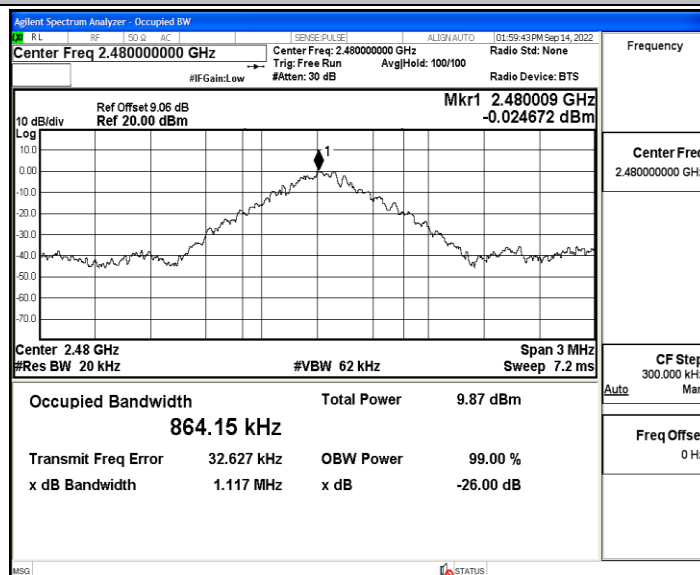
DH5\_Ant0\_2402



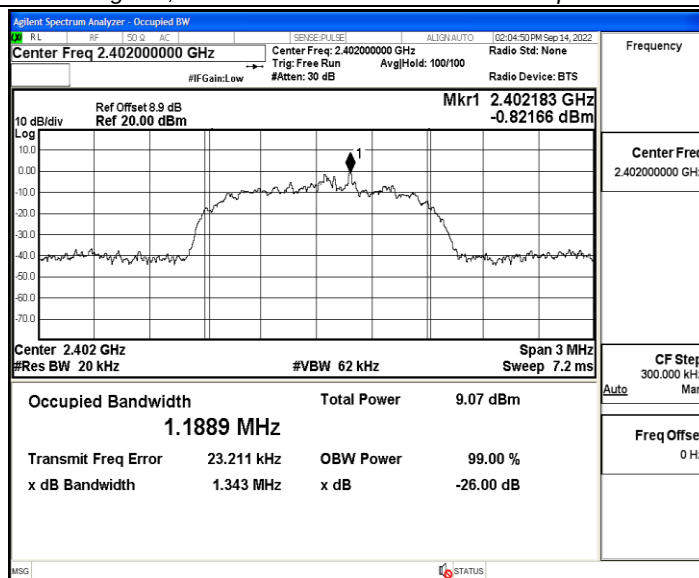
DH5\_Ant0\_2441



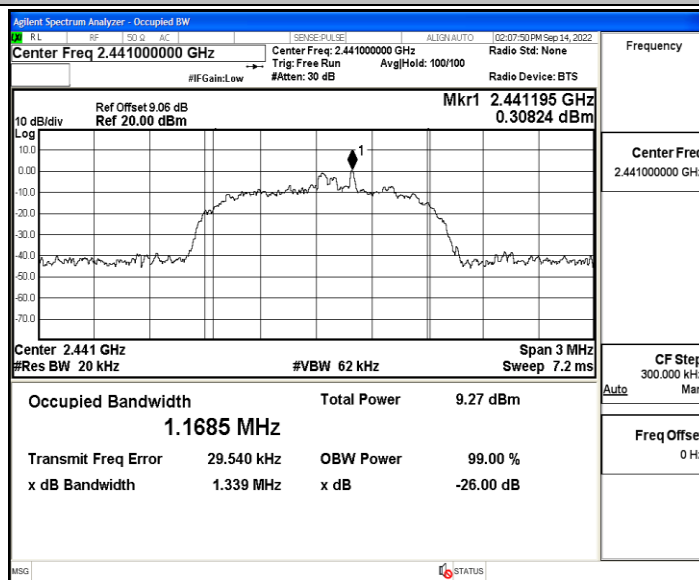
DH5\_Ant0\_2480



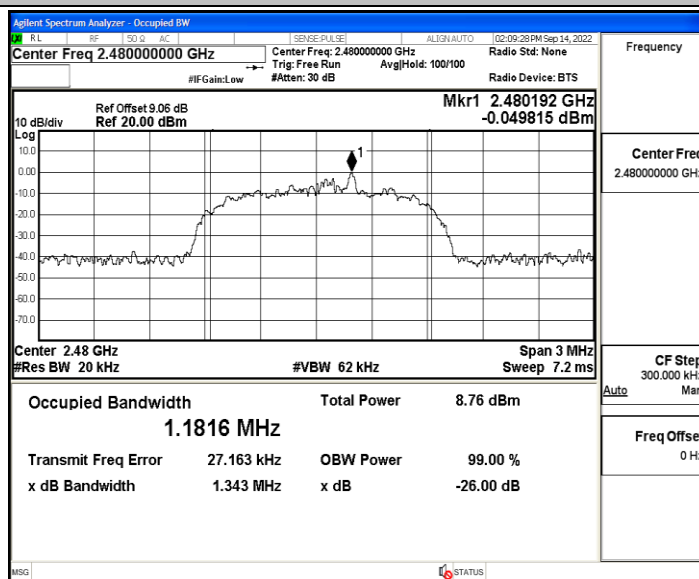
2DH5\_Ant0\_2402



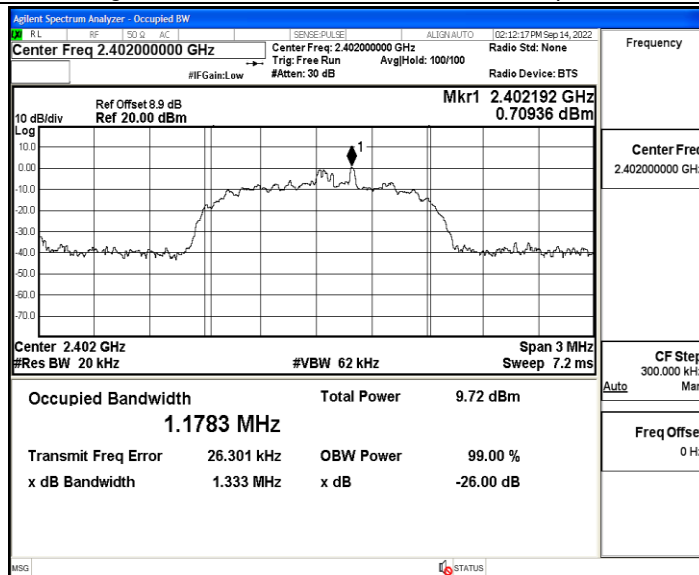
2DH5\_Ant0\_2441



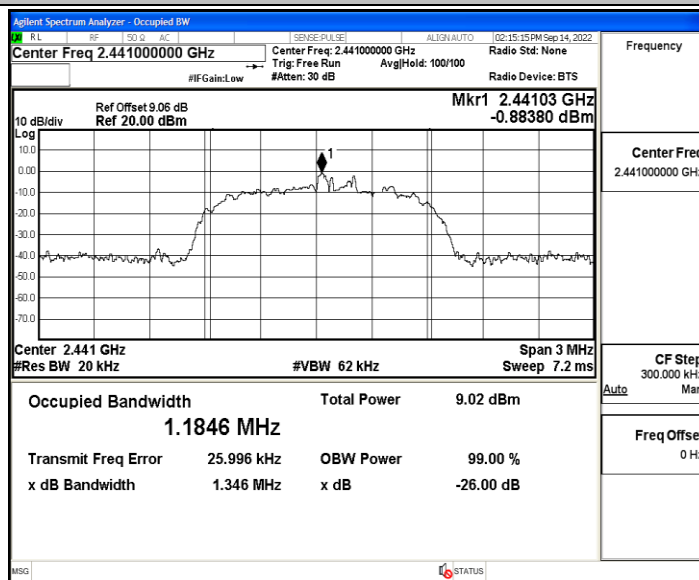
2DH5\_Ant0\_2480



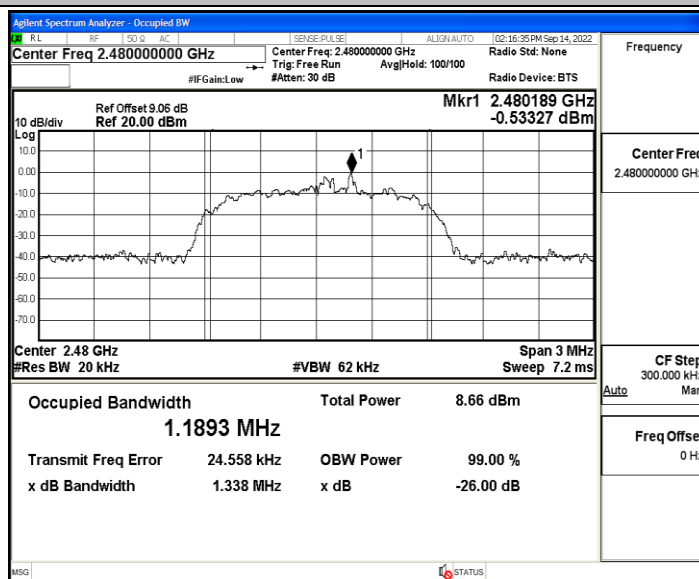
3DH5\_Ant0\_2402



## 3DH5\_Ant0\_2441



## 3DH5\_Ant0\_2480



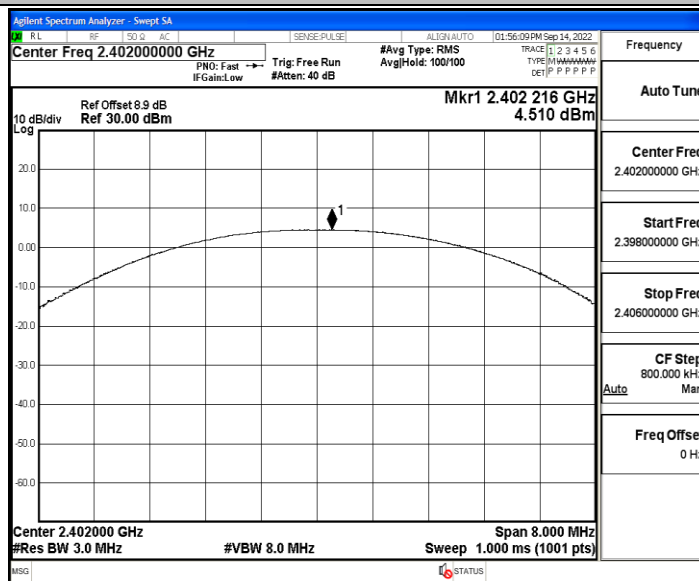
## Appendix C: Maximum Peak conducted output power

### Test Result

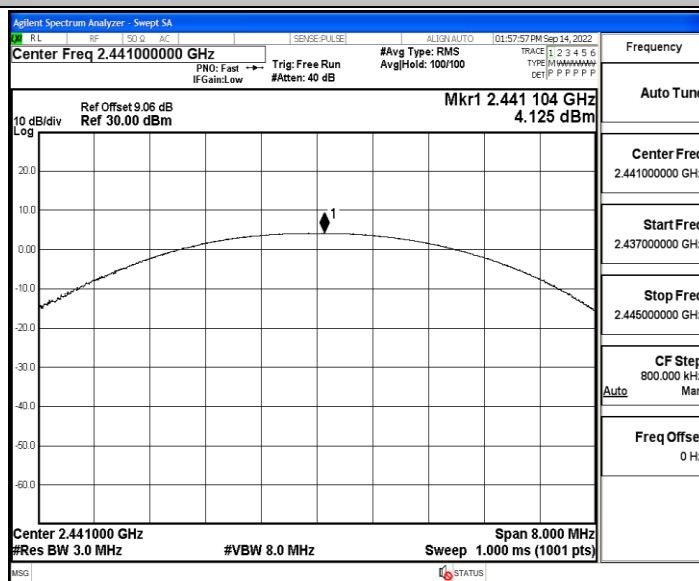
| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant0    | 2402    | 4.51        | ≤20.97     | PASS    |
|          |         | 2441    | 4.13        | ≤20.97     | PASS    |
|          |         | 2480    | 3.83        | ≤20.97     | PASS    |
| 2DH5     | Ant0    | 2402    | 4.63        | ≤20.97     | PASS    |
|          |         | 2441    | 4.2         | ≤20.97     | PASS    |
|          |         | 2480    | 3.95        | ≤20.97     | PASS    |
| 3DH5     | Ant0    | 2402    | 4.69        | ≤20.97     | PASS    |
|          |         | 2441    | 4.22        | ≤20.97     | PASS    |
|          |         | 2480    | 3.93        | ≤20.97     | PASS    |

## Test Graphs

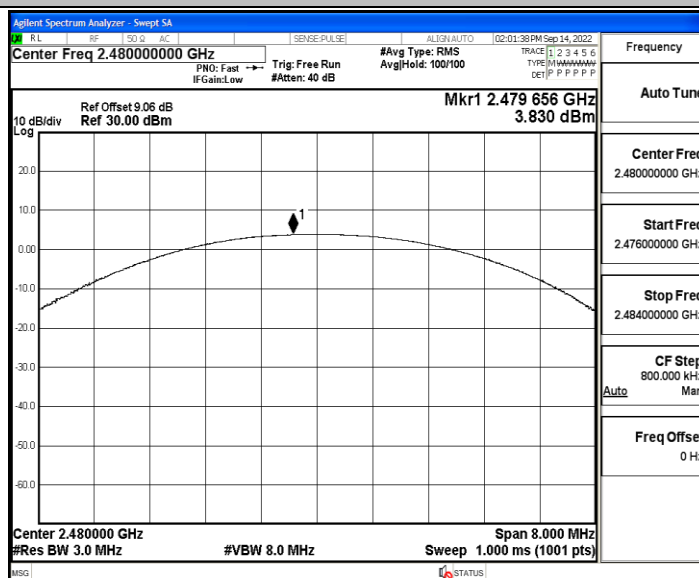
DH5\_Ant0\_2402



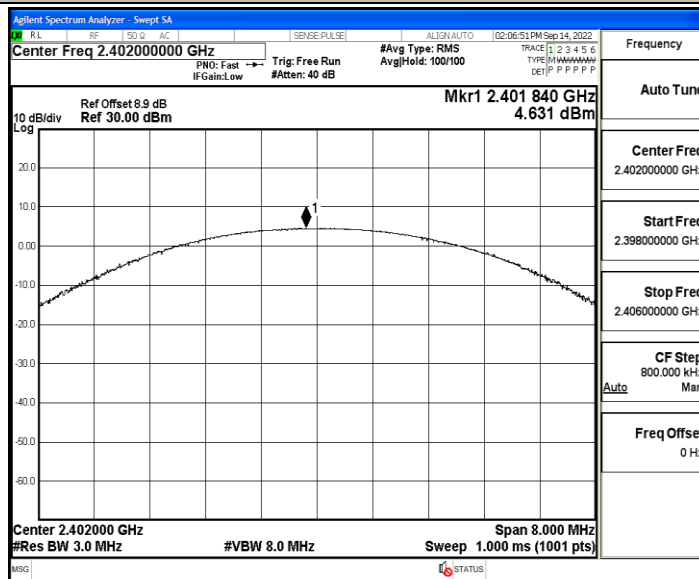
DH5\_Ant0\_2441



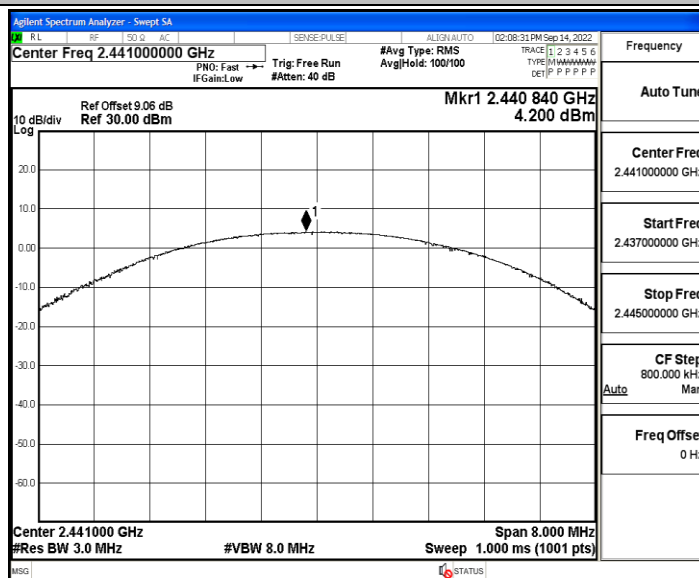
DH5\_Ant0\_2480



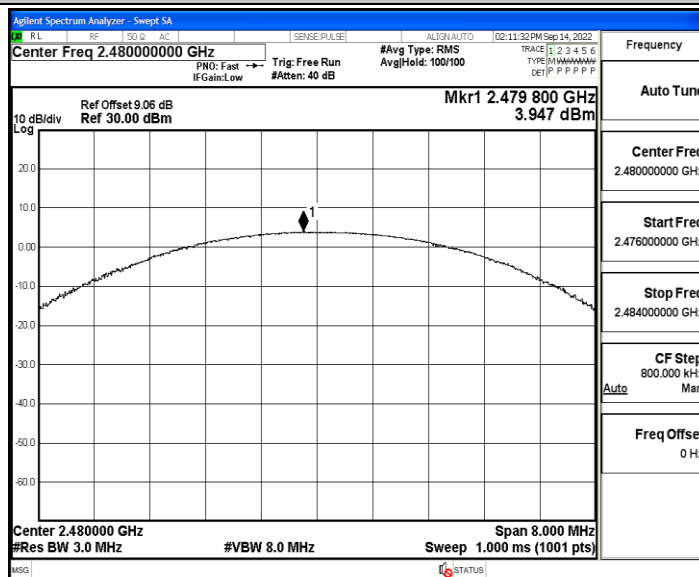
## 2DH5\_Ant0\_2402



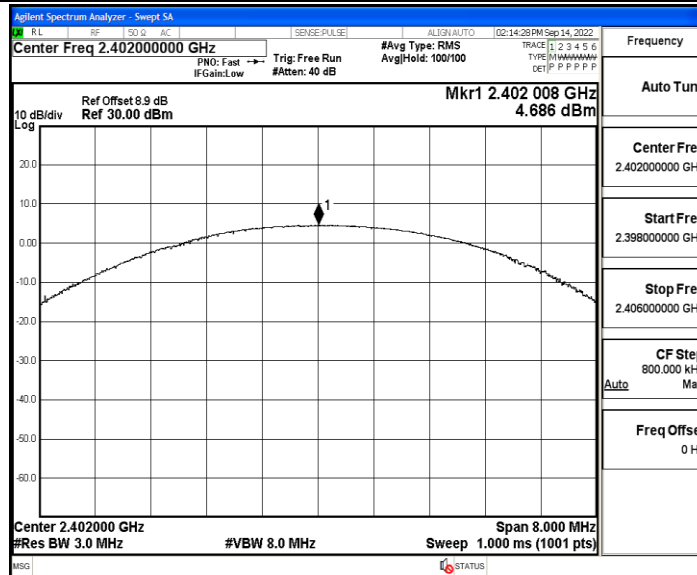
## 2DH5\_Ant0\_2441



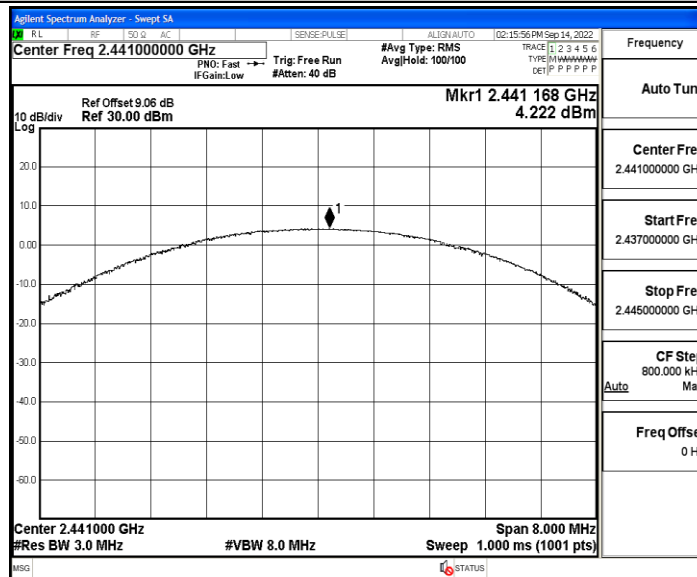
## 2DH5\_Ant0\_2480



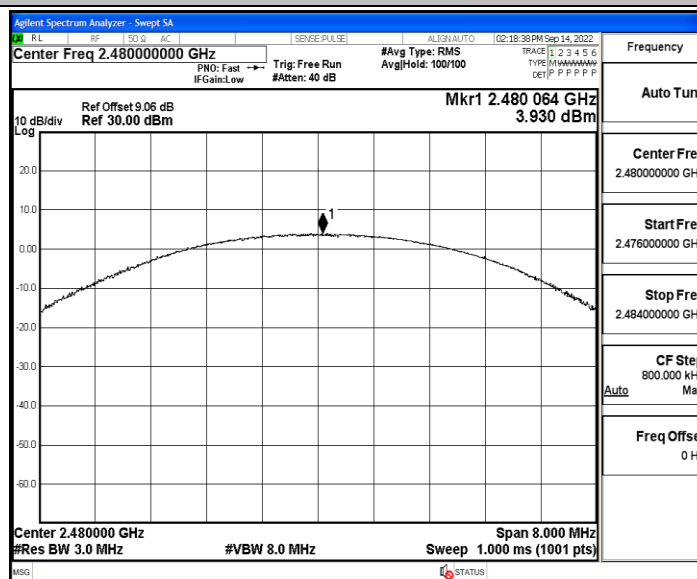
## 3DH5\_Ant0\_2402



3DH5\_Ant0\_2441



3DH5\_Ant0\_2480

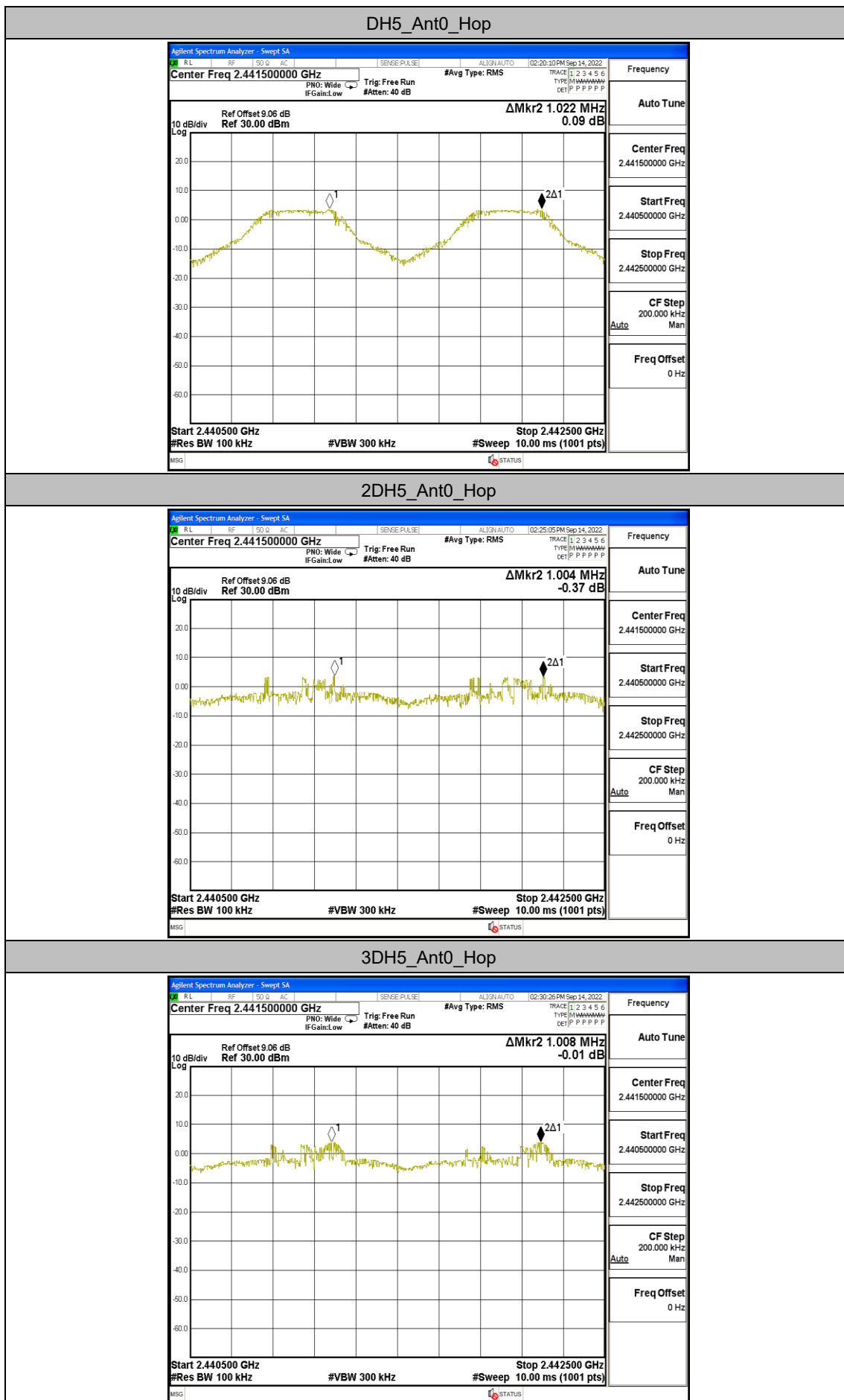


## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|---------|-------------|--------------|---------|
| DH5      | Ant0    | Hop     | 1.022       | $\geq 0.927$ | PASS    |
| 2DH5     | Ant0    | Hop     | 1.004       | $\geq 0.846$ | PASS    |
| 3DH5     | Ant0    | Hop     | 1.008       | $\geq 0.884$ | PASS    |

## Test Graphs

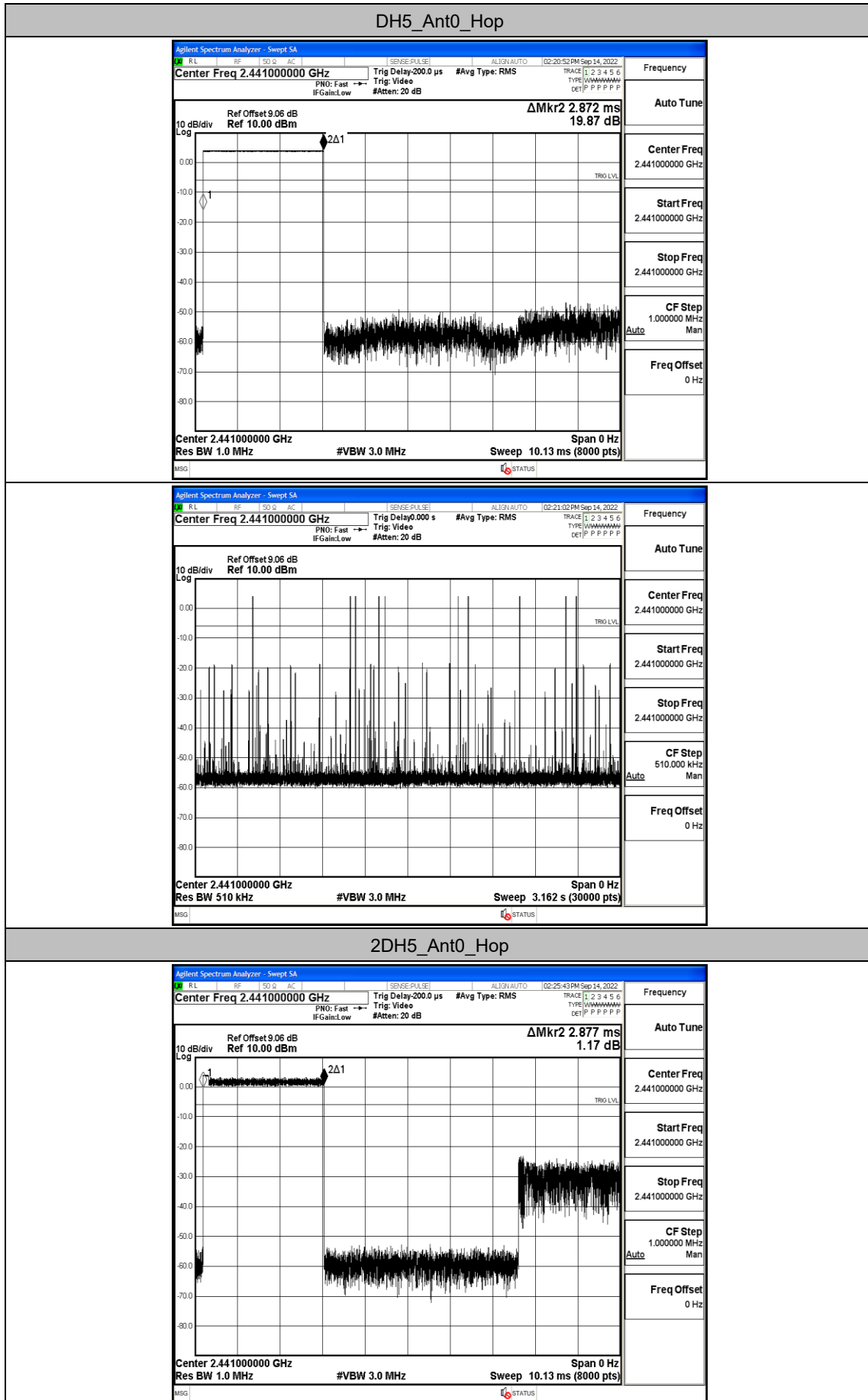


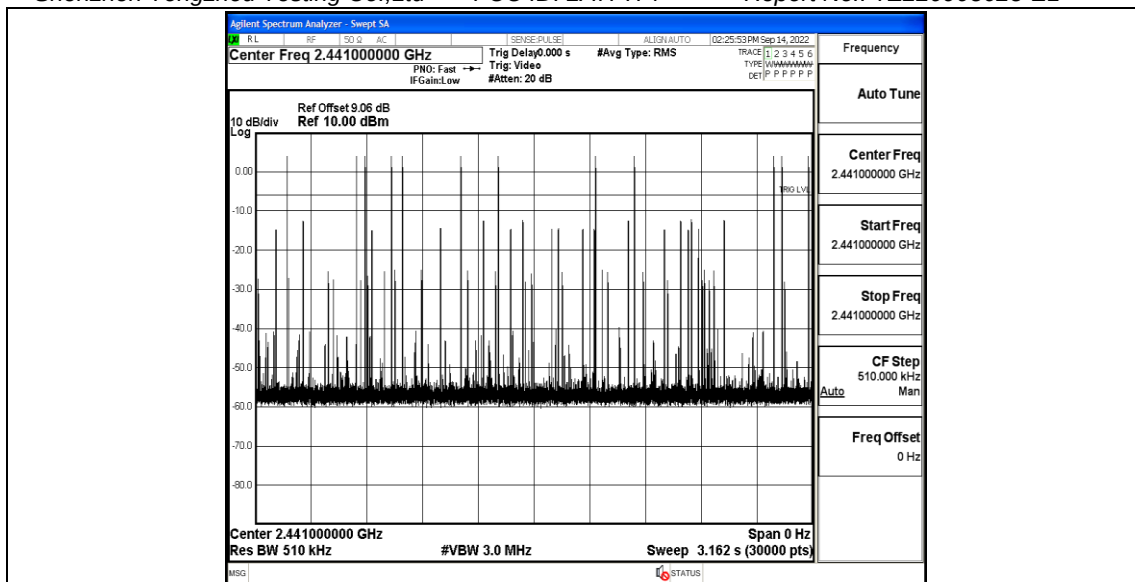
## Appendix E: Time of occupancy

### Test Result

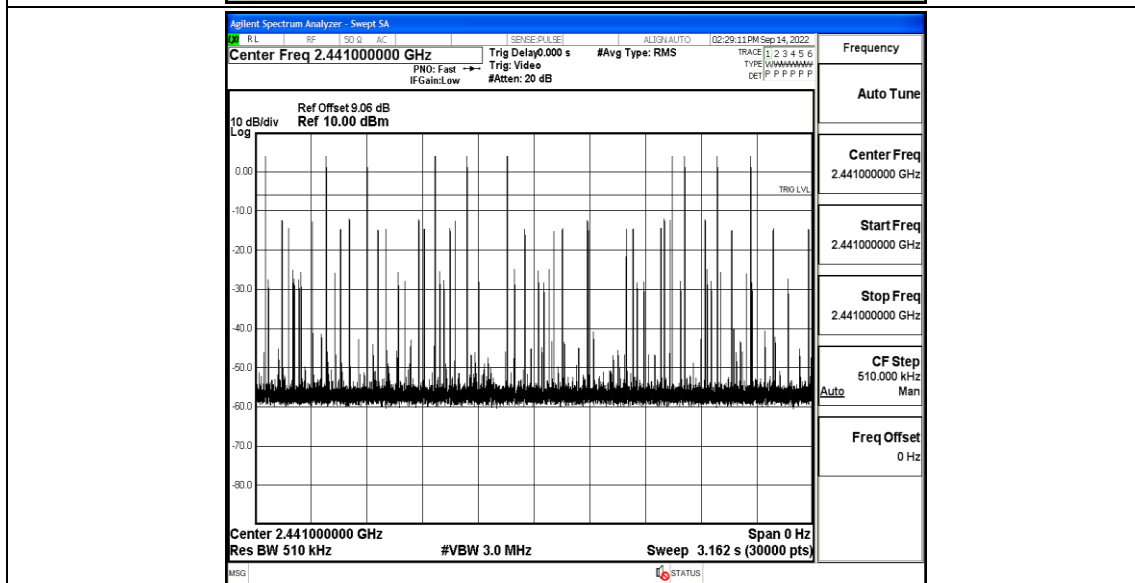
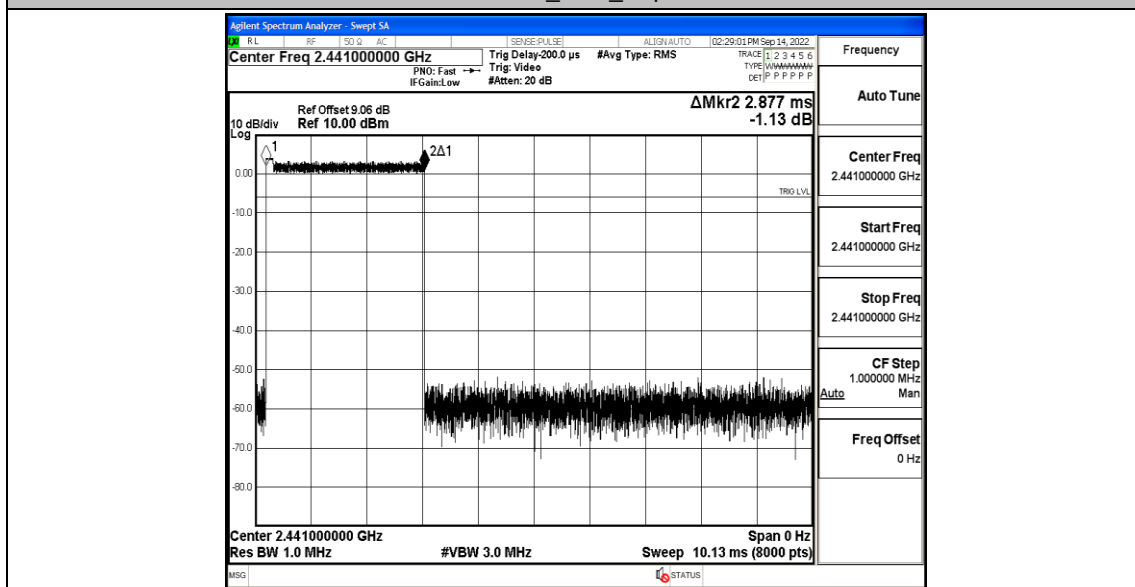
| TestMode | Antenna | Channel | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|---------|--------------------|--------------------|-----------|----------|---------|
| DH5      | Ant0    | Hop     | 2.87               | 110                | 0.316     | ≤0.4     | PASS    |
| 2DH5     | Ant0    | Hop     | 2.88               | 130                | 0.374     | ≤0.4     | PASS    |
| 3DH5     | Ant0    | Hop     | 2.88               | 110                | 0.316     | ≤0.4     | PASS    |

## Test Graphs





## 3DH5\_Ant0\_Hop



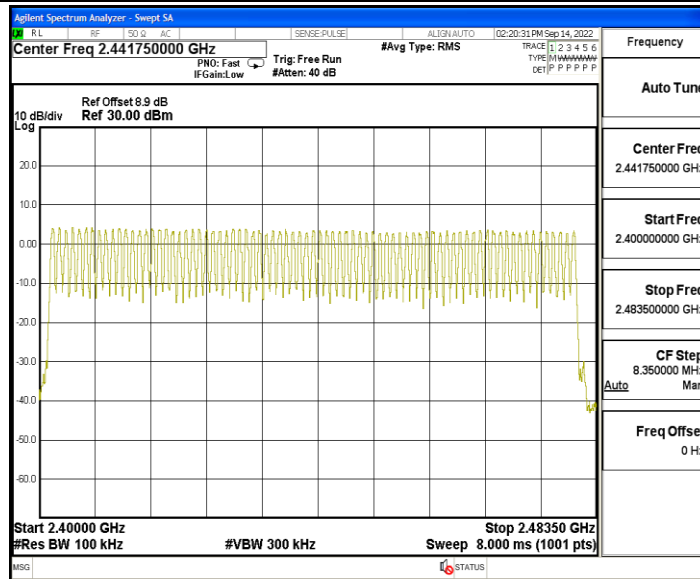
## Appendix F: Number of hopping channels

### Test Result

| TestMode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant0    | Hop     | 79          | ≥15        | PASS    |
| 2DH5     | Ant0    | Hop     | 79          | ≥15        | PASS    |
| 3DH5     | Ant0    | Hop     | 79          | ≥15        | PASS    |

## Test Graphs

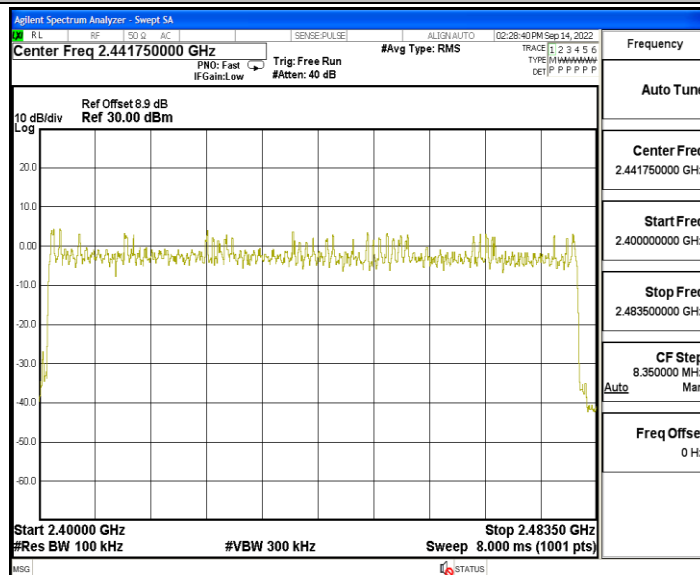
DH5\_Ant0\_Hop



2DH5\_Ant0\_Hop



3DH5\_Ant0\_Hop



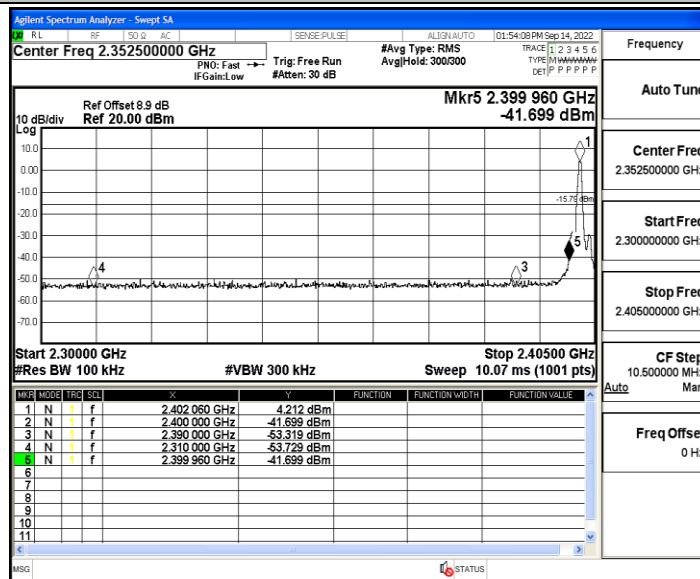
## Appendix G: Band edge measurements

### Test Result

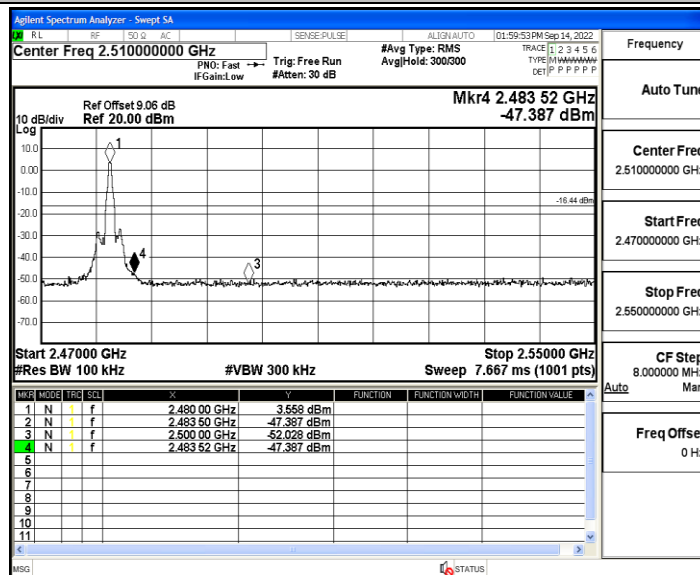
| TestMode | Antenna | ChName | Channel  | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|----------|-------------------|-----------------|----------------|---------|
| DH5      | Ant0    | Low    | 2402     | 4.21              | -41.7           | $\leq -15.79$  | PASS    |
|          |         | High   | 2480     | 3.56              | -47.39          | $\leq -16.44$  | PASS    |
|          |         | Low    | Hop_2402 | 3.92              | -50.38          | $\leq -16.09$  | PASS    |
|          |         | High   | Hop_2480 | 3.42              | -48.97          | $\leq -16.58$  | PASS    |
| 2DH5     | Ant0    | Low    | 2402     | 4.22              | -40.35          | $\leq -15.78$  | PASS    |
|          |         | High   | 2480     | 3.65              | -48.03          | $\leq -16.35$  | PASS    |
|          |         | Low    | Hop_2402 | -1.54             | -50.68          | $\leq -21.54$  | PASS    |
|          |         | High   | Hop_2480 | 3.36              | -49.13          | $\leq -16.64$  | PASS    |
| 3DH5     | Ant0    | Low    | 2402     | 3.47              | -37.6           | $\leq -16.53$  | PASS    |
|          |         | High   | 2480     | 3.70              | -49.1           | $\leq -16.3$   | PASS    |
|          |         | Low    | Hop_2402 | 1.25              | -49.76          | $\leq -18.75$  | PASS    |
|          |         | High   | Hop_2480 | 2.11              | -49.73          | $\leq -17.89$  | PASS    |

## Test Graphs

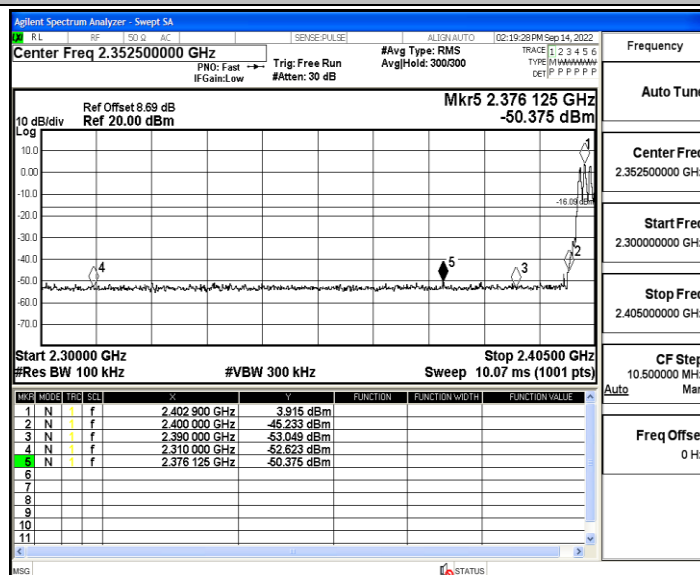
DH5\_Ant0\_Low\_2402



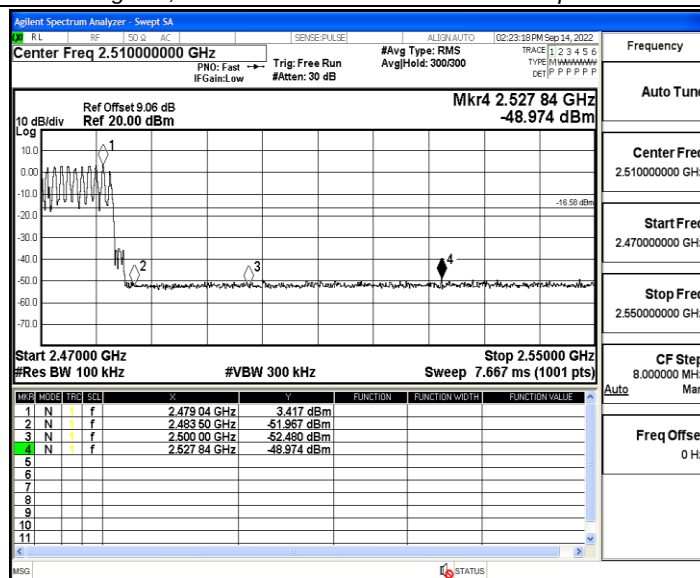
DH5\_Ant0\_High\_2480



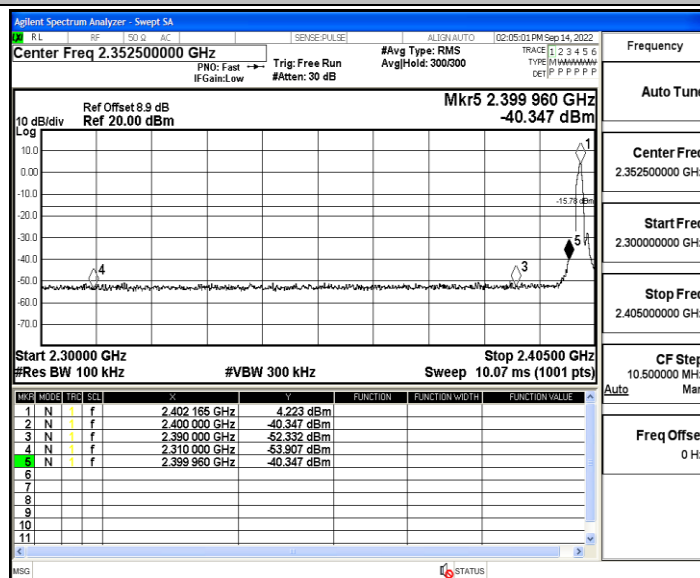
DH5\_Ant0\_Low\_Hop\_2402



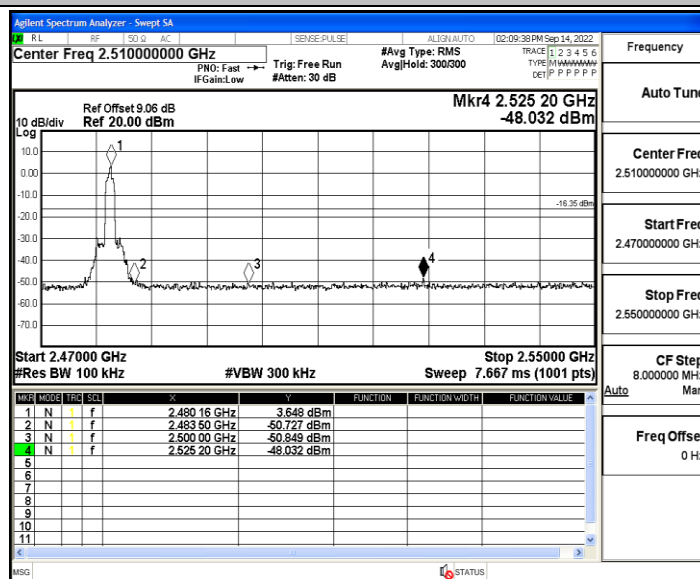
DH5\_Ant0\_High\_Hop\_2480



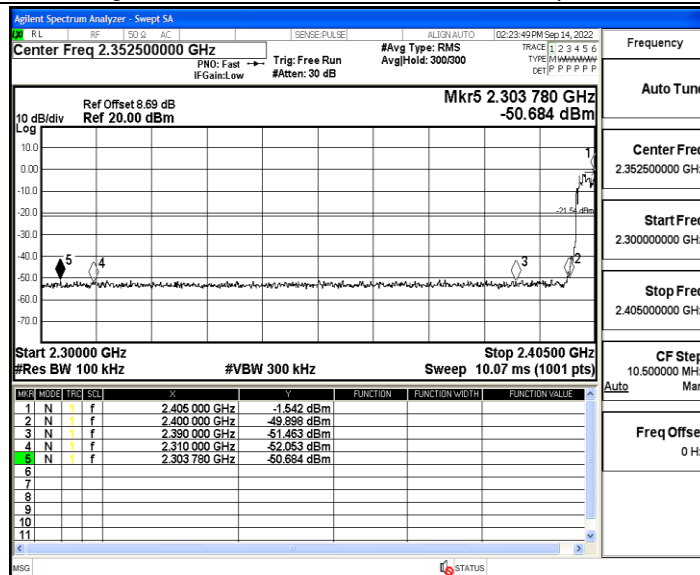
2DH5\_Ant0\_Low\_2402



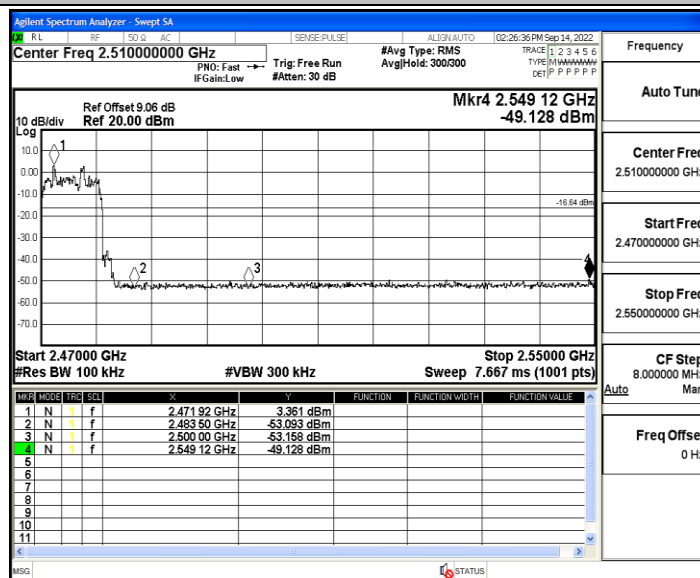
2DH5\_Ant0\_High\_2480



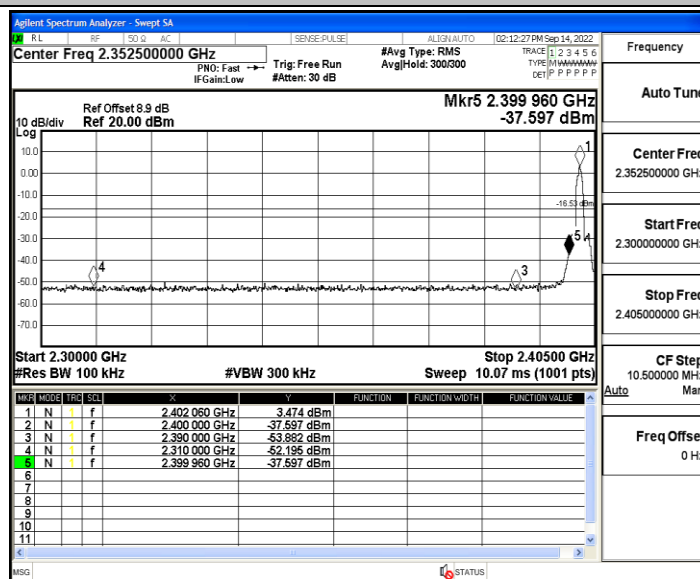
2DH5\_Ant0\_Low\_Hop\_2402



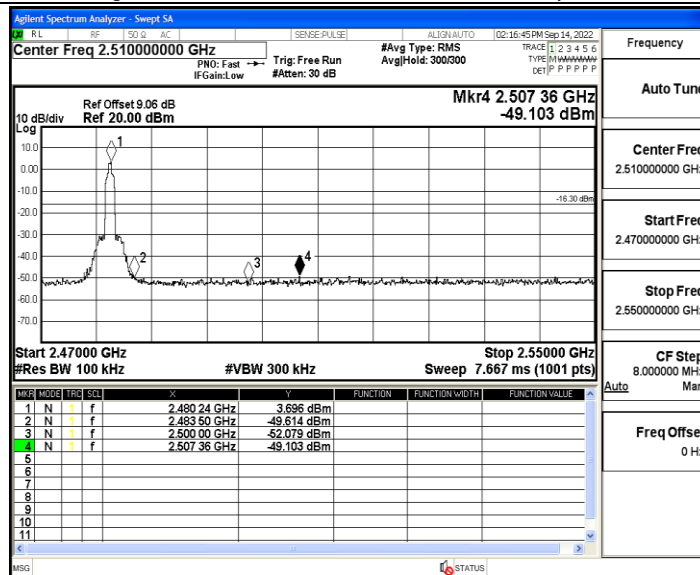
## 2DH5\_Ant0\_High\_Hop\_2480



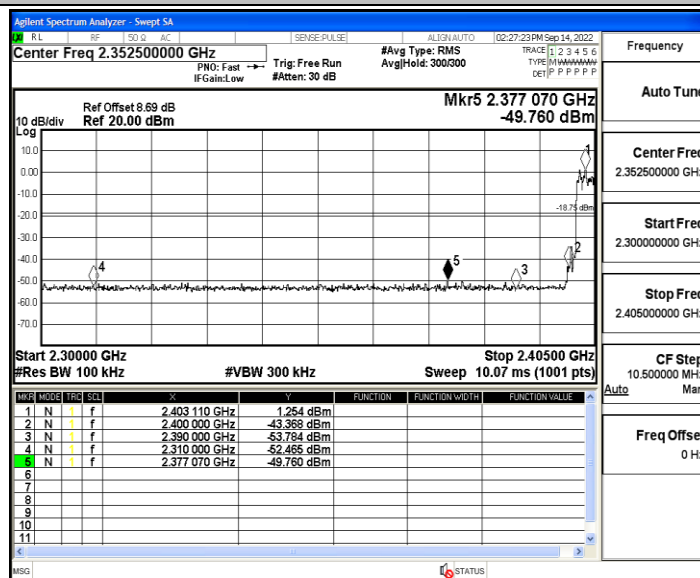
## 3DH5\_Ant0\_Low\_2402



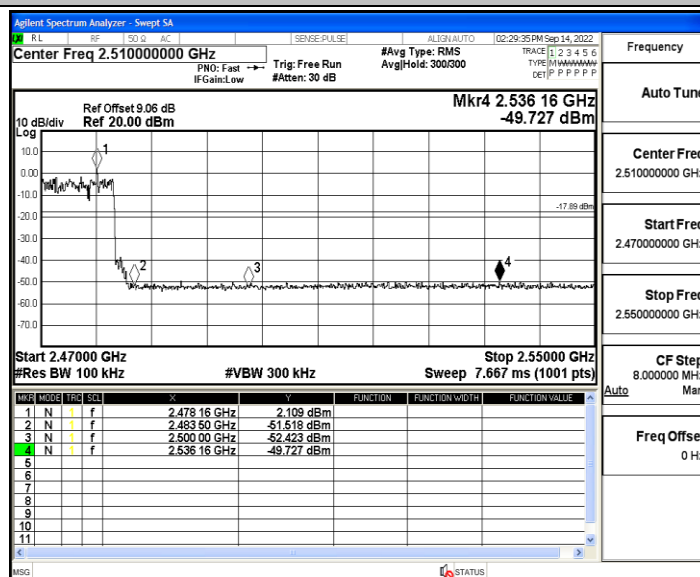
## 3DH5\_Ant0\_High\_2480



## 3DH5\_Ant0\_Low\_Hop\_2402



## 3DH5\_Ant0\_High\_Hop\_2480



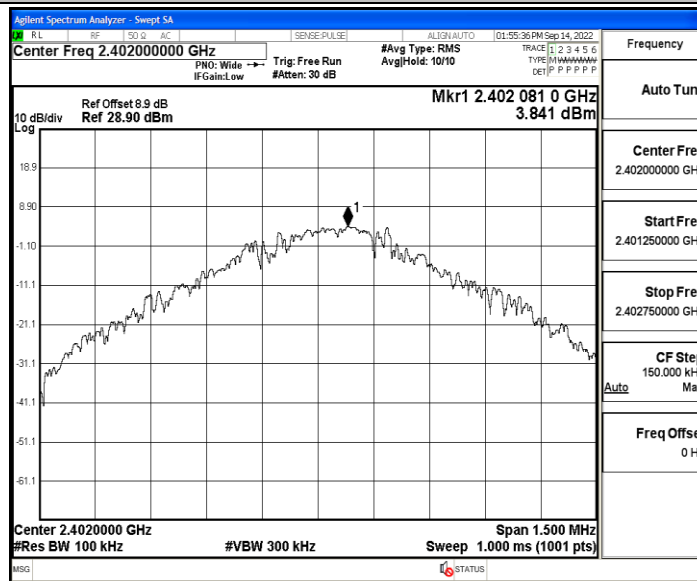
## Appendix H: Conducted Spurious Emission

### Test Result

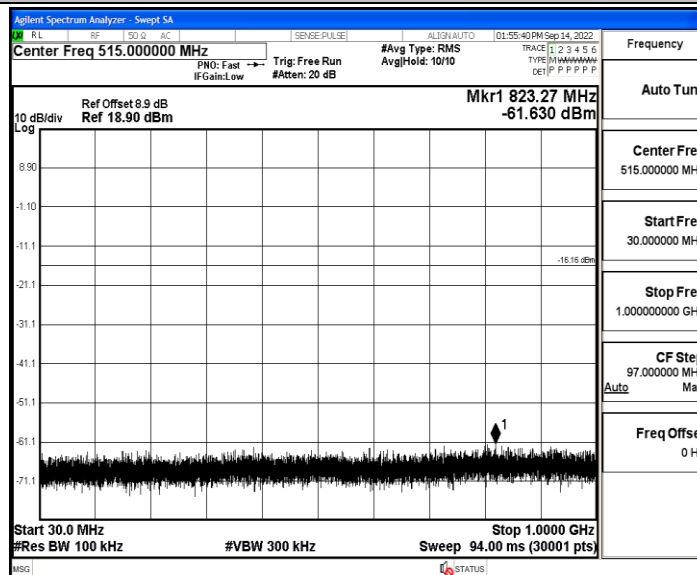
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| DH5      | Ant0    | 2402    | Reference          | 3.84              | 3.84            | ---            | PASS    |
|          |         |         | 30~1000            | 3.84              | -61.63          | ≤-16.16        | PASS    |
|          |         |         | 1000~26500         | 3.84              | -48.68          | ≤-16.16        | PASS    |
|          |         | 2441    | Reference          | 3.22              | 3.22            | ---            | PASS    |
|          |         |         | 30~1000            | 3.22              | -61.68          | ≤-16.78        | PASS    |
|          |         |         | 1000~26500         | 3.22              | -48.01          | ≤-16.78        | PASS    |
|          |         | 2480    | Reference          | 3.00              | 3.00            | ---            | PASS    |
|          |         |         | 30~1000            | 3.00              | -61.19          | ≤-17           | PASS    |
|          |         |         | 1000~26500         | 3.00              | -51.28          | ≤-17           | PASS    |
| 2DH5     | Ant0    | 2402    | Reference          | 3.04              | 3.04            | ---            | PASS    |
|          |         |         | 30~1000            | 3.04              | -61.92          | ≤-16.96        | PASS    |
|          |         |         | 1000~26500         | 3.04              | -51.37          | ≤-16.96        | PASS    |
|          |         | 2441    | Reference          | -1.92             | -1.92           | ---            | PASS    |
|          |         |         | 30~1000            | -1.92             | -61.68          | ≤-21.92        | PASS    |
|          |         |         | 1000~26500         | -1.92             | -51.14          | ≤-21.92        | PASS    |
|          |         | 2480    | Reference          | 2.07              | 2.07            | ---            | PASS    |
|          |         |         | 30~1000            | 2.07              | -61.62          | ≤-17.93        | PASS    |
|          |         |         | 1000~26500         | 2.07              | -50.67          | ≤-17.93        | PASS    |
| 3DH5     | Ant0    | 2402    | Reference          | 2.05              | 2.05            | ---            | PASS    |
|          |         |         | 30~1000            | 2.05              | -61.2           | ≤-17.95        | PASS    |
|          |         |         | 1000~26500         | 2.05              | -51.34          | ≤-17.95        | PASS    |
|          |         | 2441    | Reference          | 0.96              | 0.96            | ---            | PASS    |
|          |         |         | 30~1000            | 0.96              | -61.44          | ≤-19.04        | PASS    |
|          |         |         | 1000~26500         | 0.96              | -51.39          | ≤-19.04        | PASS    |
|          |         | 2480    | Reference          | -1.30             | -1.30           | ---            | PASS    |
|          |         |         | 30~1000            | -1.30             | -60.97          | ≤-21.3         | PASS    |
|          |         |         | 1000~26500         | -1.30             | -51.12          | ≤-21.3         | PASS    |

## Test Graphs

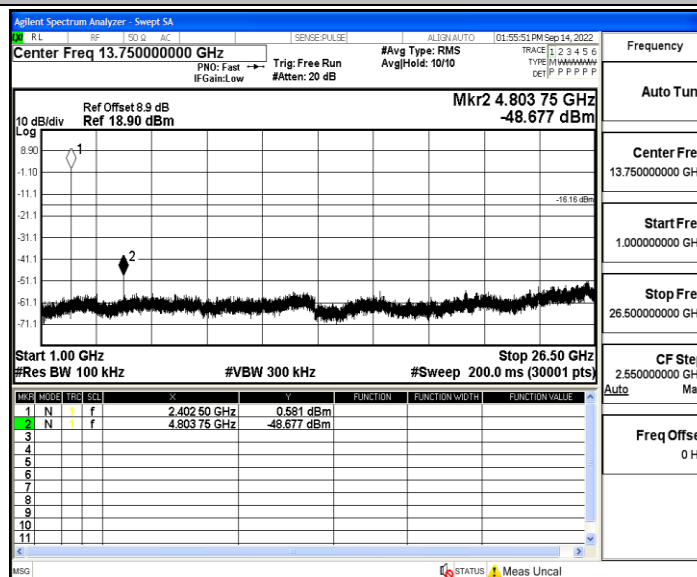
DH5\_Ant0\_2402\_0~Reference



DH5\_Ant0\_2402\_30~1000



DH5\_Ant0\_2402\_1000~26500



DH5\_Ant0\_2441\_0~Reference