

## RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Bone Conduction Earphone

Trade Mark: N/A

Test Model: Dai3mimi Di2

FCC ID: 2A744-DAI3MIMIDI2

### Environmental Conditions

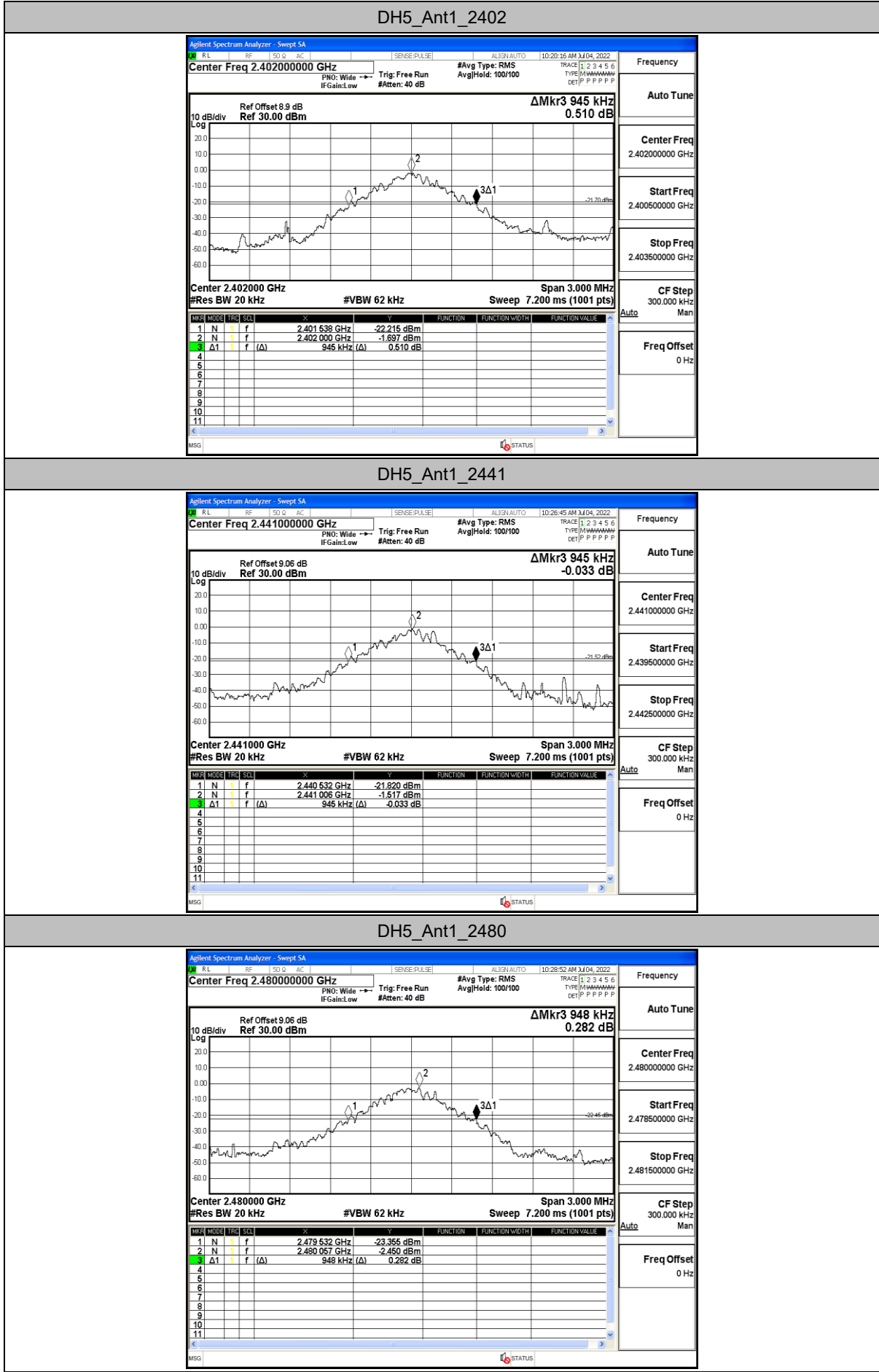
|                    |           |
|--------------------|-----------|
| Temperature:       | 25.5°C    |
| Relative Humidity: | 55%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Anna Hu   |
| Supervised by:     | Hugo Chen |
| NOTE               | N/A       |

## Appendix A: 20dB Emission Bandwidth

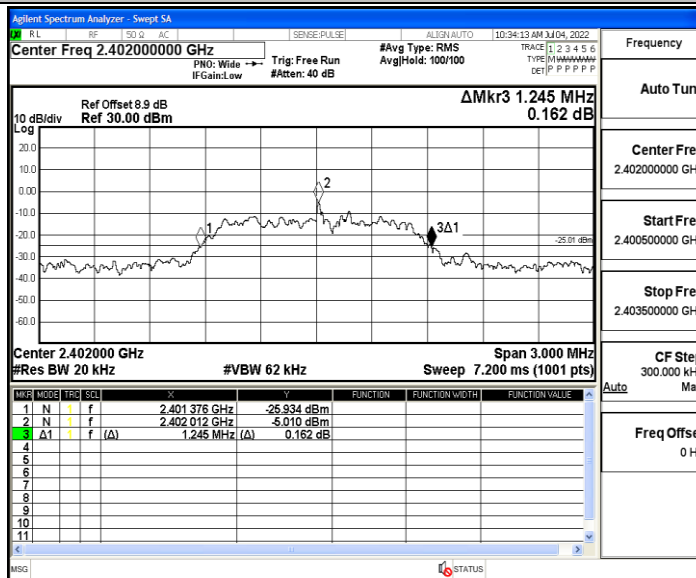
### Test Result

| TestMode | Antenna | Channel | 20db EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|---------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402    | 0.945         | 2401.538 | 2402.483 | ---        | ---     |
|          |         | 2441    | 0.945         | 2440.532 | 2441.477 | ---        | ---     |
|          |         | 2480    | 0.948         | 2479.532 | 2480.480 | ---        | ---     |
| 2DH5     | Ant1    | 2402    | 1.245         | 2401.376 | 2402.621 | ---        | ---     |
|          |         | 2441    | 1.275         | 2440.364 | 2441.639 | ---        | ---     |
|          |         | 2480    | 1.209         | 2479.385 | 2480.594 | ---        | ---     |
| 3DH5     | Ant1    | 2402    | 1.212         | 2401.403 | 2402.615 | ---        | ---     |
|          |         | 2441    | 1.272         | 2440.355 | 2441.627 | ---        | ---     |
|          |         | 2480    | 1.221         | 2479.385 | 2480.606 | ---        | ---     |

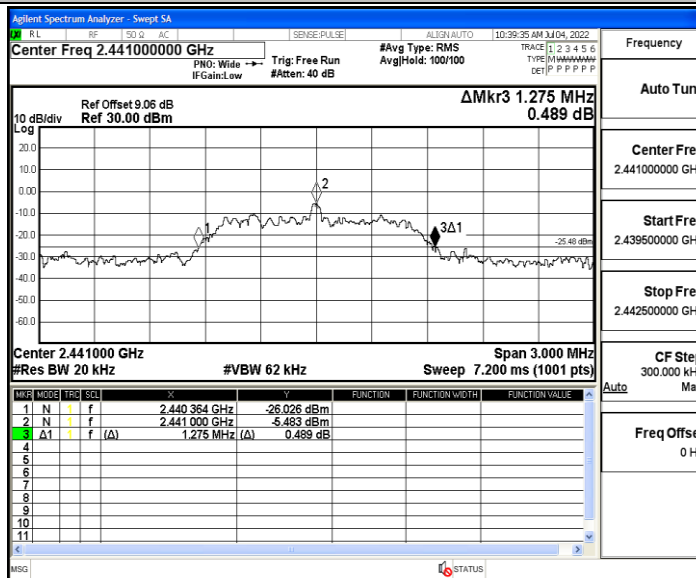
Test Graphs



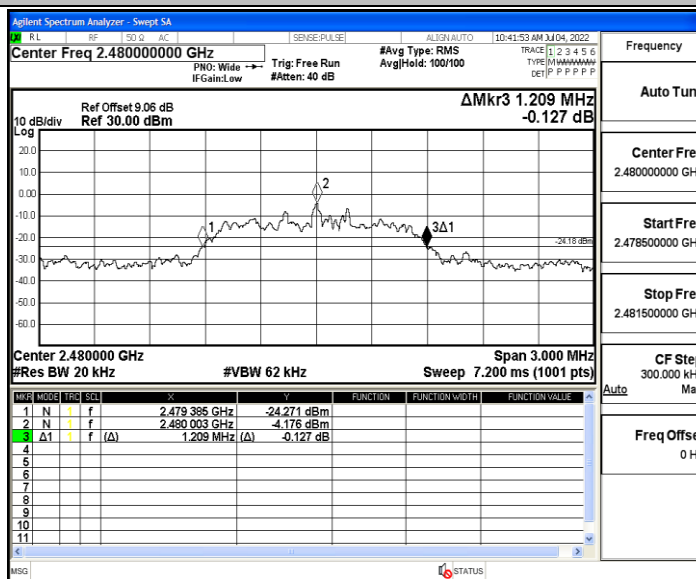
## 2DH5\_Ant1\_2402



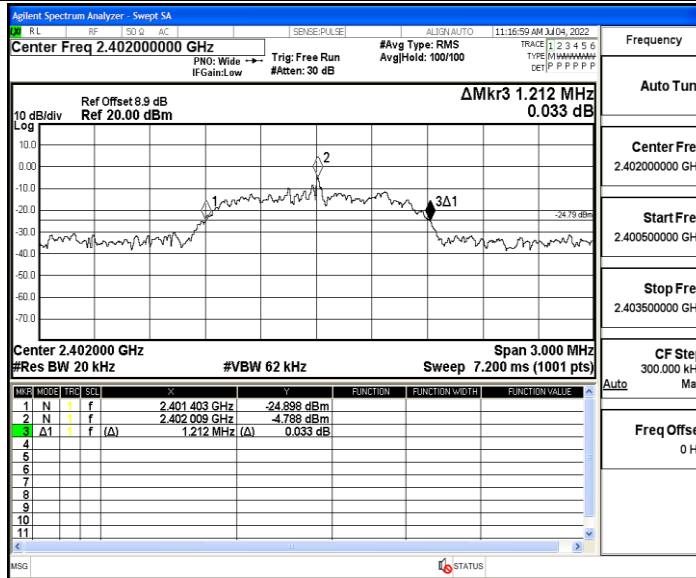
## 2DH5\_Ant1\_2441



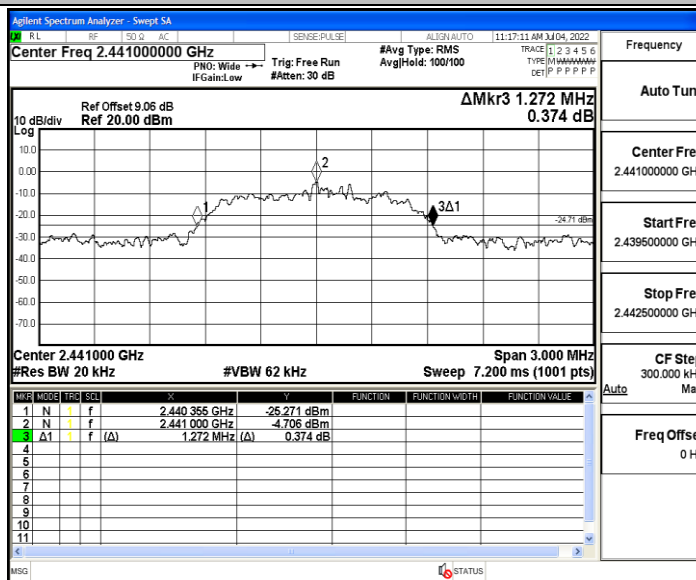
## 2DH5\_Ant1\_2480



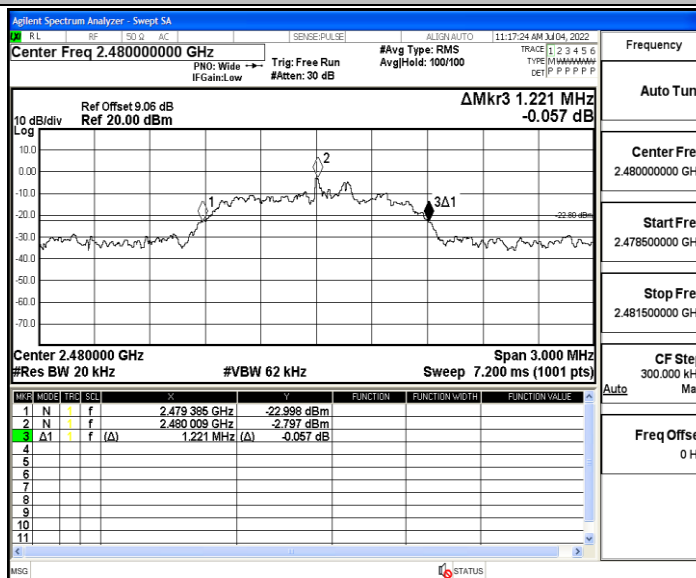
## 3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



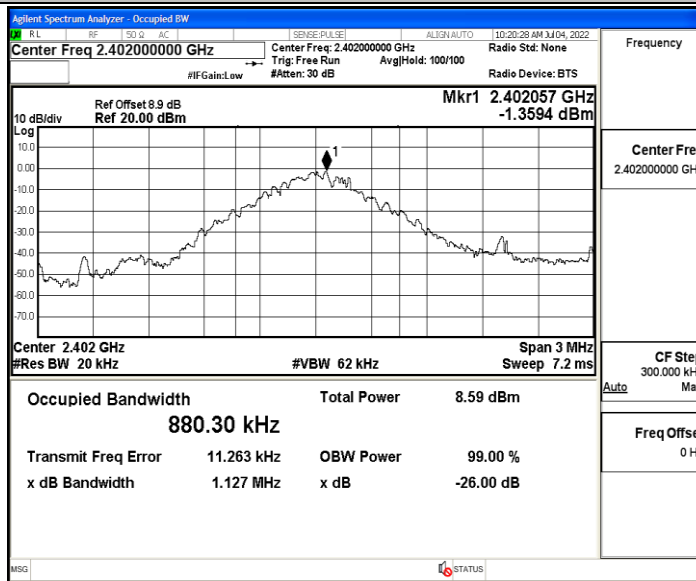
## Appendix B: Occupied Channel Bandwidth

### Test Result

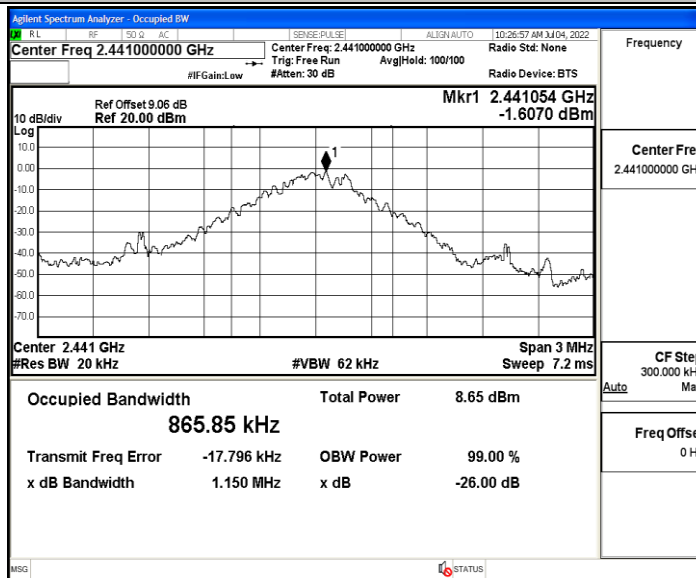
| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402    | 0.88030   | 2401.571 | 2402.451 | ---        | ---     |
|          |         | 2441    | 0.86585   | 2440.549 | 2441.415 | ---        | ---     |
|          |         | 2480    | 0.85948   | 2479.554 | 2480.413 | ---        | ---     |
| 2DH5     | Ant1    | 2402    | 1.5996    | 2401.206 | 2402.806 | ---        | ---     |
|          |         | 2441    | 1.9467    | 2440.015 | 2441.962 | ---        | ---     |
|          |         | 2480    | 1.9689    | 2478.961 | 2480.930 | ---        | ---     |
| 3DH5     | Ant1    | 2402    | 1.6168    | 2401.176 | 2402.793 | ---        | ---     |
|          |         | 2441    | 1.5395    | 2440.213 | 2441.753 | ---        | ---     |
|          |         | 2480    | 1.6822    | 2479.132 | 2480.815 | ---        | ---     |

## Test Graphs

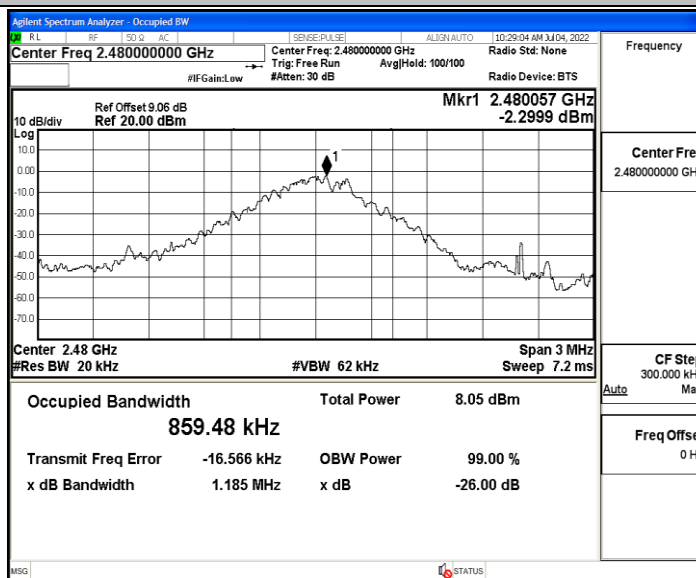
DH5\_Ant1\_2402



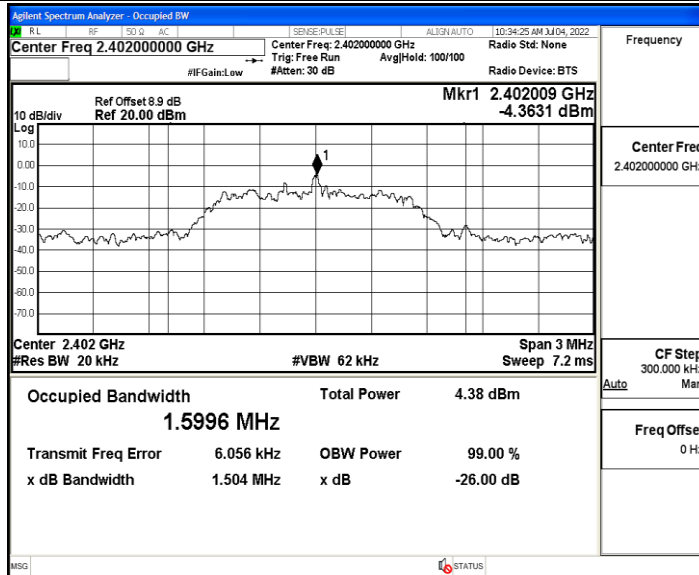
DH5\_Ant1\_2441



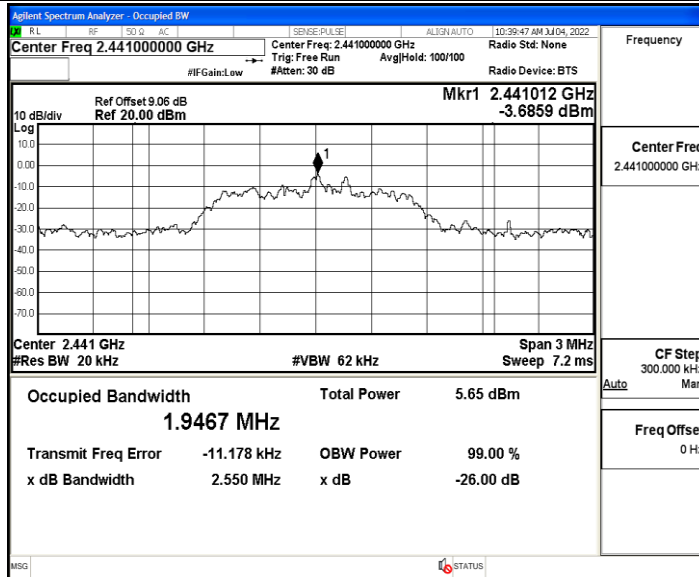
DH5\_Ant1\_2480



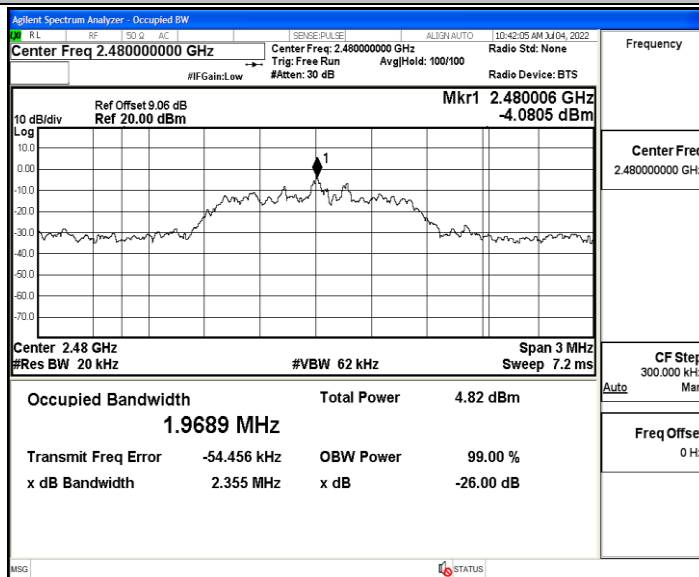
## 2DH5\_Ant1\_2402



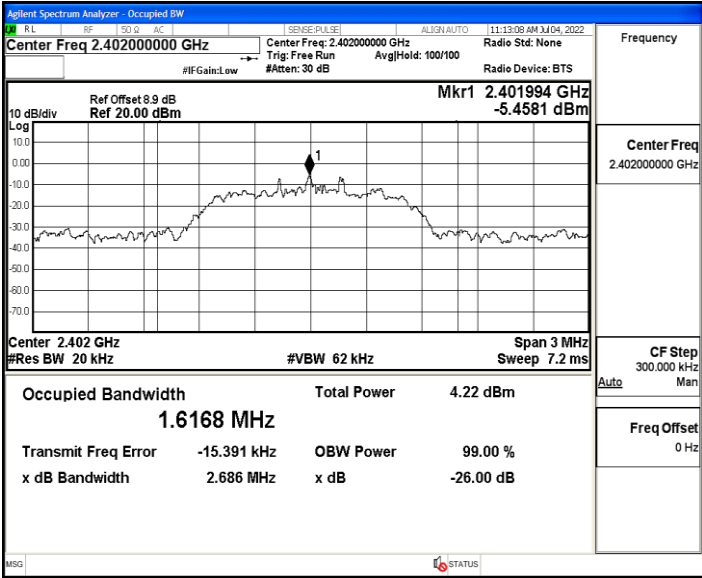
## 2DH5\_Ant1\_2441



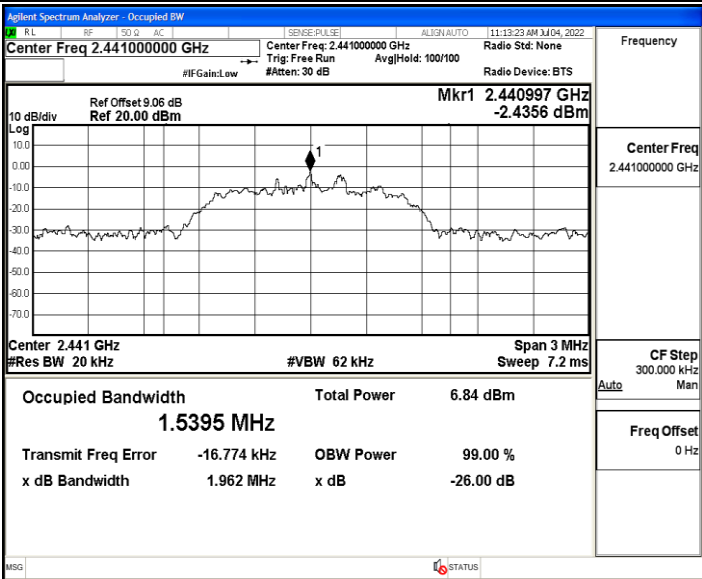
## 2DH5\_Ant1\_2480



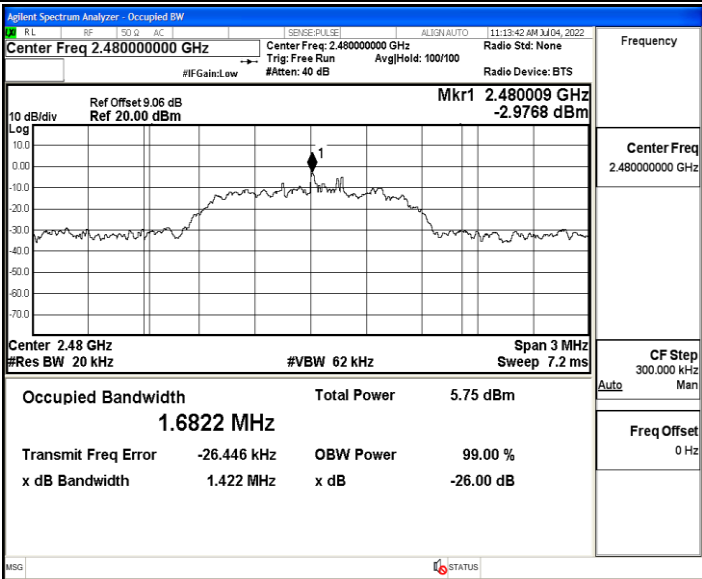
## 3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

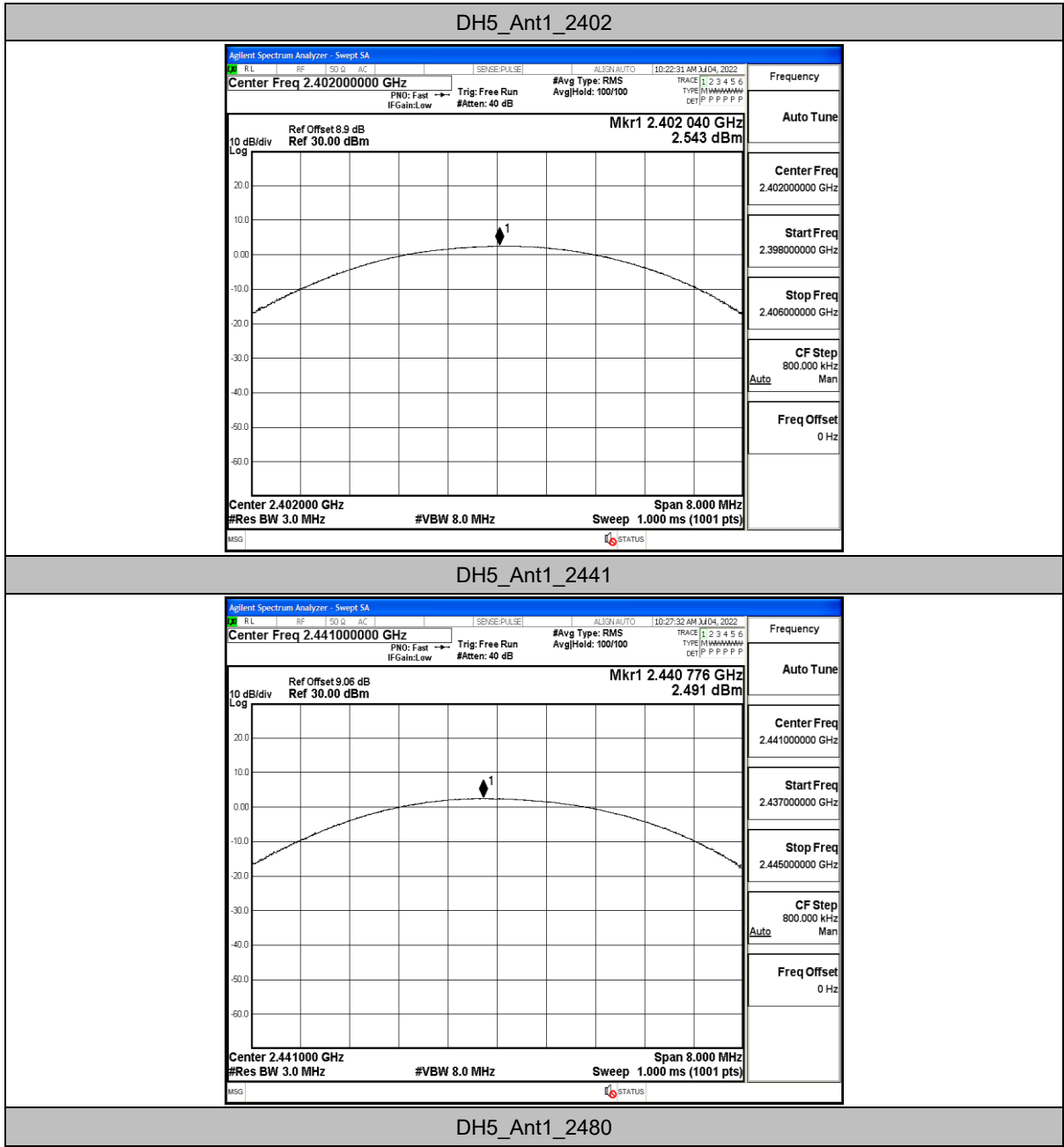


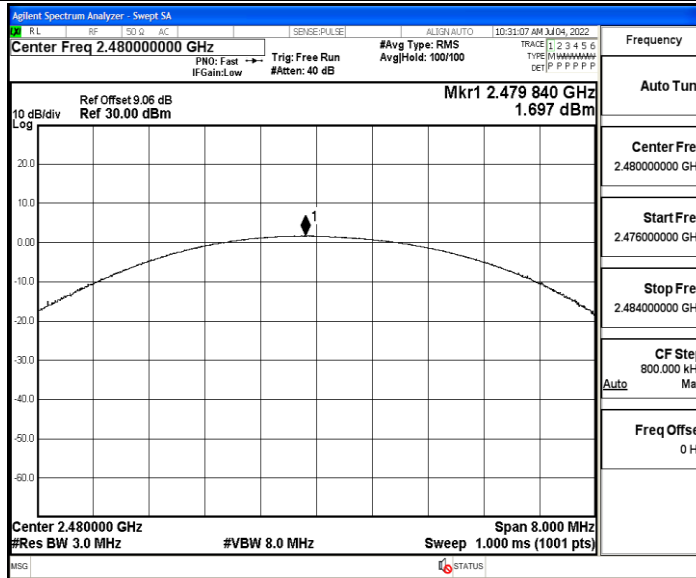
## Appendix C: Maximum Peak conducted output power

### Test Result

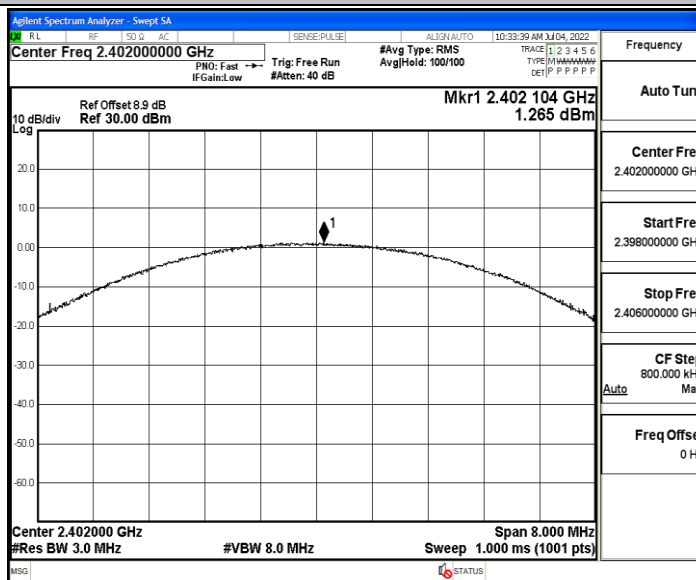
| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | 2402    | 2.54        | ≤30        | PASS    |
|          |         | 2441    | 2.49        | ≤30        | PASS    |
|          |         | 2480    | 1.7         | ≤30        | PASS    |
| 2DH5     | Ant1    | 2402    | 1.27        | ≤20.97     | PASS    |
|          |         | 2441    | 2.49        | ≤20.97     | PASS    |
|          |         | 2480    | 1.72        | ≤20.97     | PASS    |
| 3DH5     | Ant1    | 2402    | 0.91        | ≤20.97     | PASS    |
|          |         | 2441    | 0.87        | ≤20.97     | PASS    |
|          |         | 2480    | 2.68        | ≤20.97     | PASS    |

Test Graphs

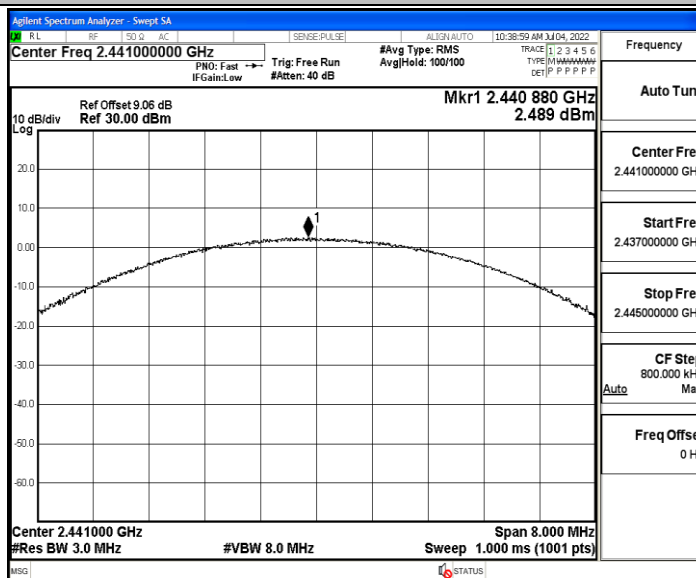




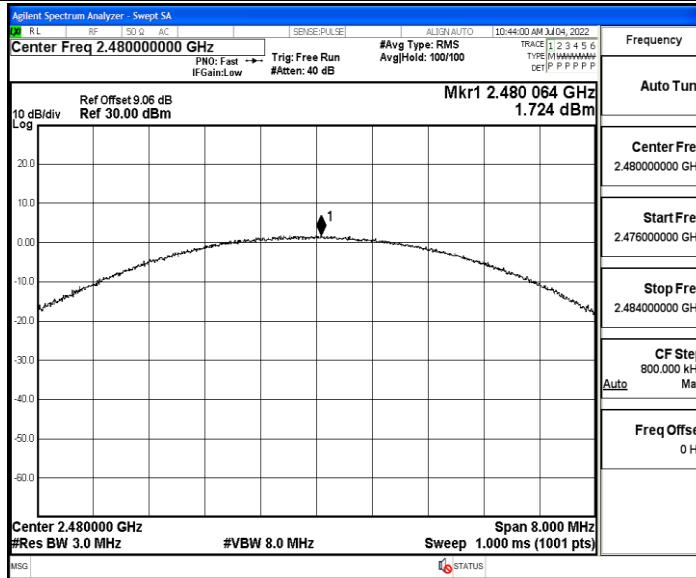
2DH5\_Ant1\_2402



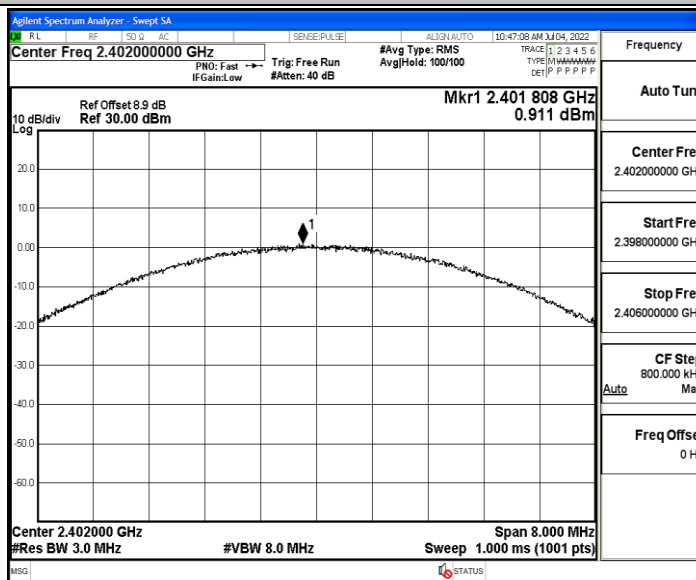
2DH5\_Ant1\_2441



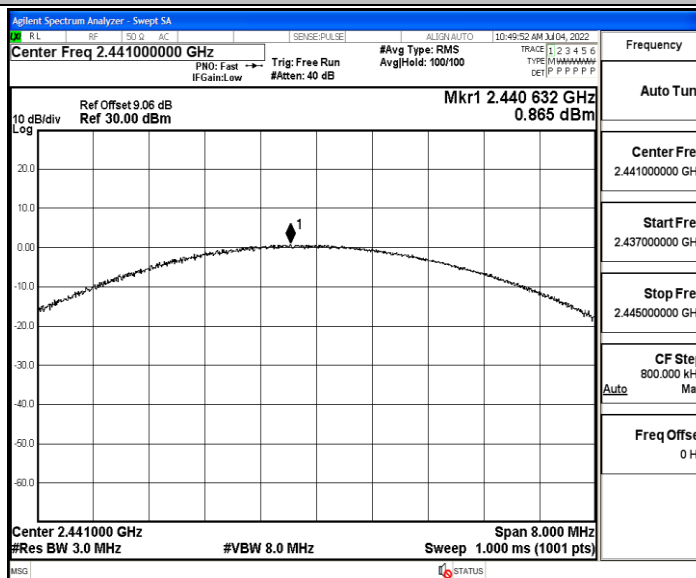
2DH5\_Ant1\_2480



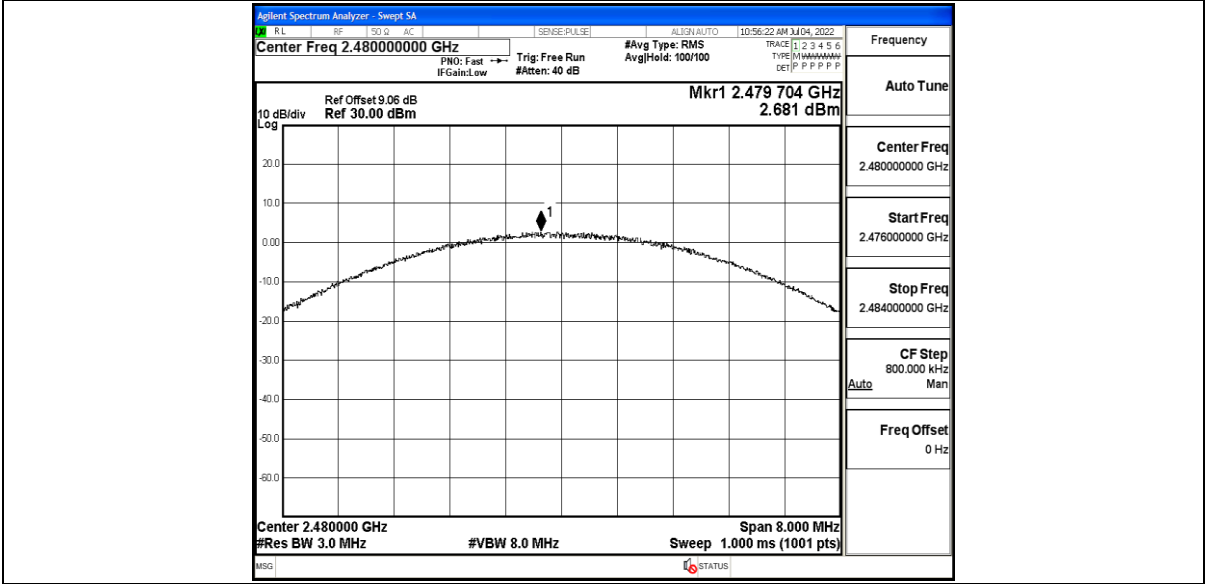
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

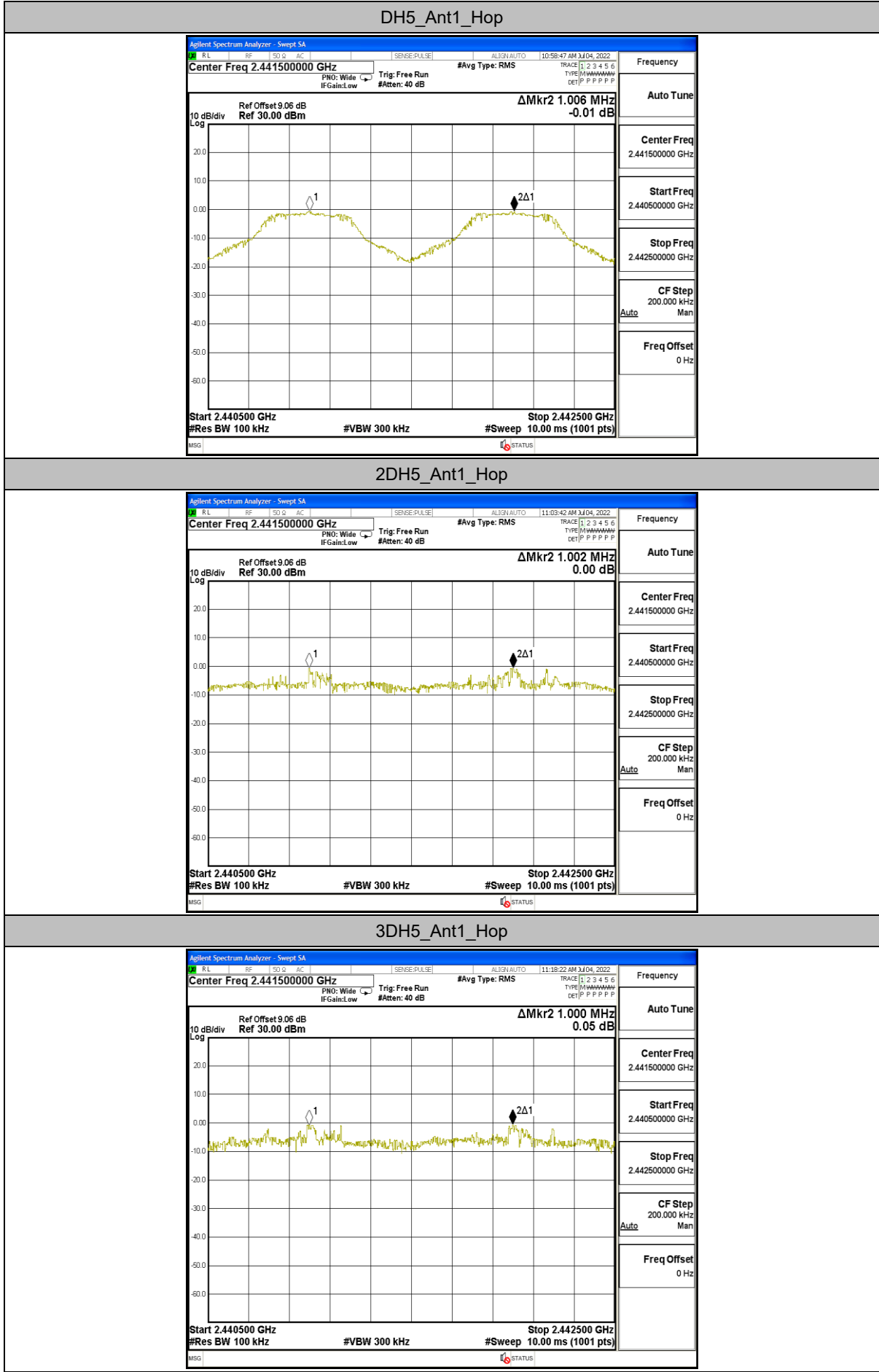


## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | Hop     | 1.006       | ≥0.948     | PASS    |
| 2DH5     | Ant1    | Hop     | 1.002       | ≥0.850     | PASS    |
| 3DH5     | Ant1    | Hop     | 1           | ≥0.848     | PASS    |

Test Graphs

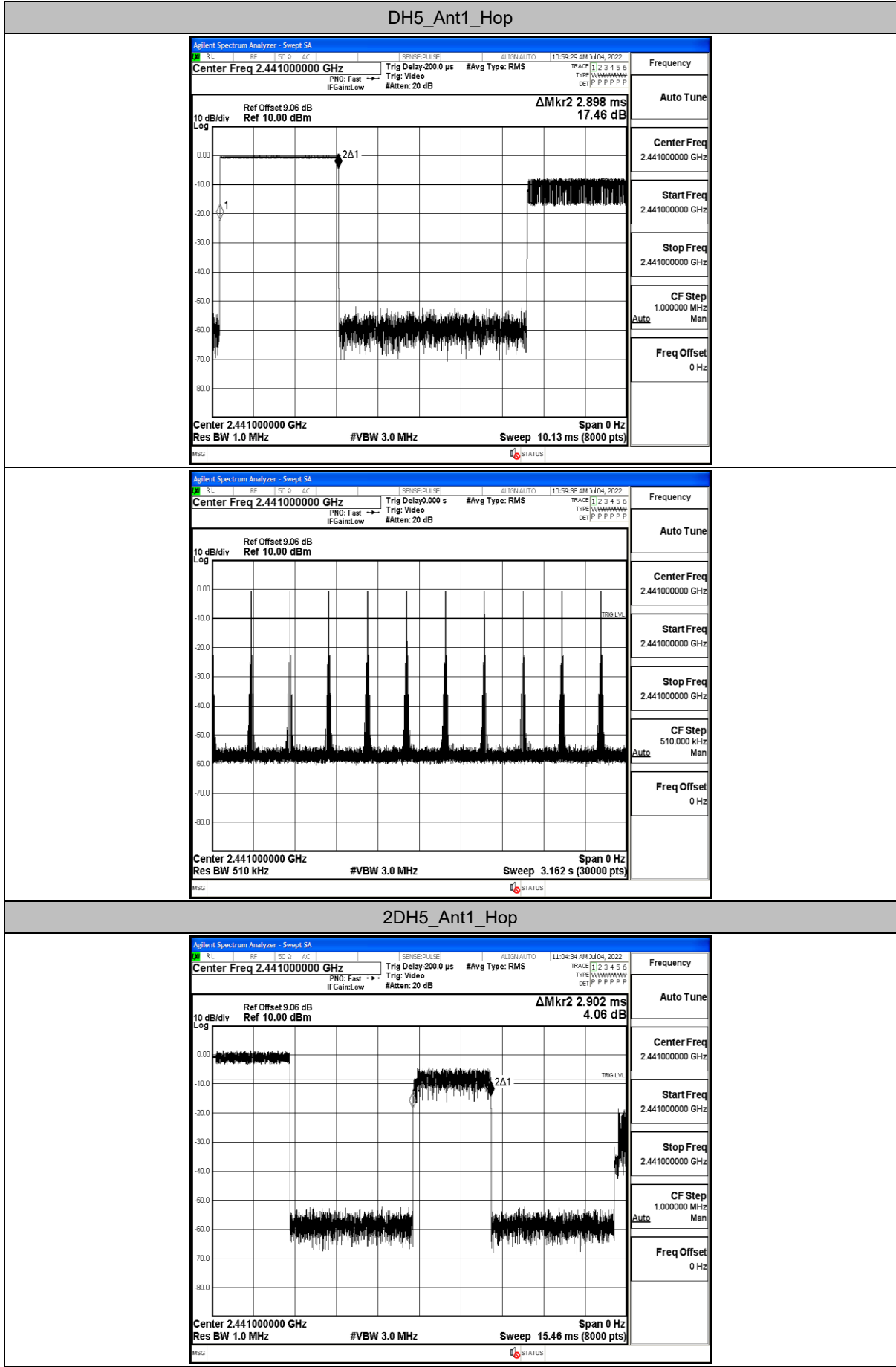


## Appendix E: Time of occupancy

### Test Result

| TestMode | Antenna | Channel | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|---------|--------------------|--------------------|-----------|----------|---------|
| DH5      | Ant1    | Hop     | 2.90               | 110                | 0.319     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop     | 2.90               | 110                | 0.319     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop     | 2.90               | 100                | 0.29      | ≤0.4     | PASS    |

Test Graphs



2DH5\_Ant1\_Hop

Agilent Spectrum Analyzer - Swept SA

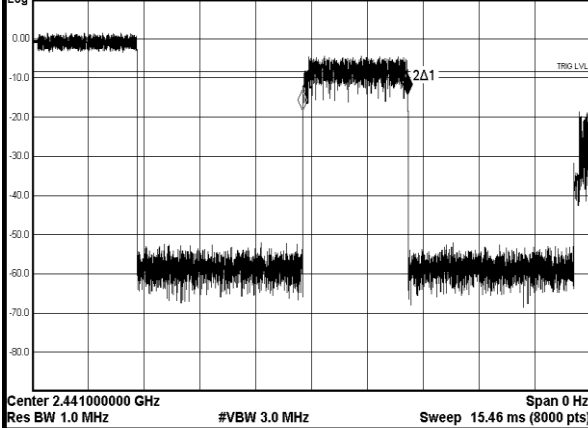
RLRF50QACSENSE:PULSEALIGN:AUTO11:04:34 AM 3/04/2022

Center Freq 2.441000000 GHzTrig Delay:200.0  $\mu$ s#Avg Type: RMS

PNO: FastIF Gain:Low#Atten: 20 dB

Ref Offset 9.06 dBRef 10.00 dBm

10 dB/divLog



Center 2.441000000 GHzRes BW 1.0 MHz#VBW 3.0 MHzSweep 15.46 ms (8000 pts)

MSGSTATUS

Frequency

Auto Tune

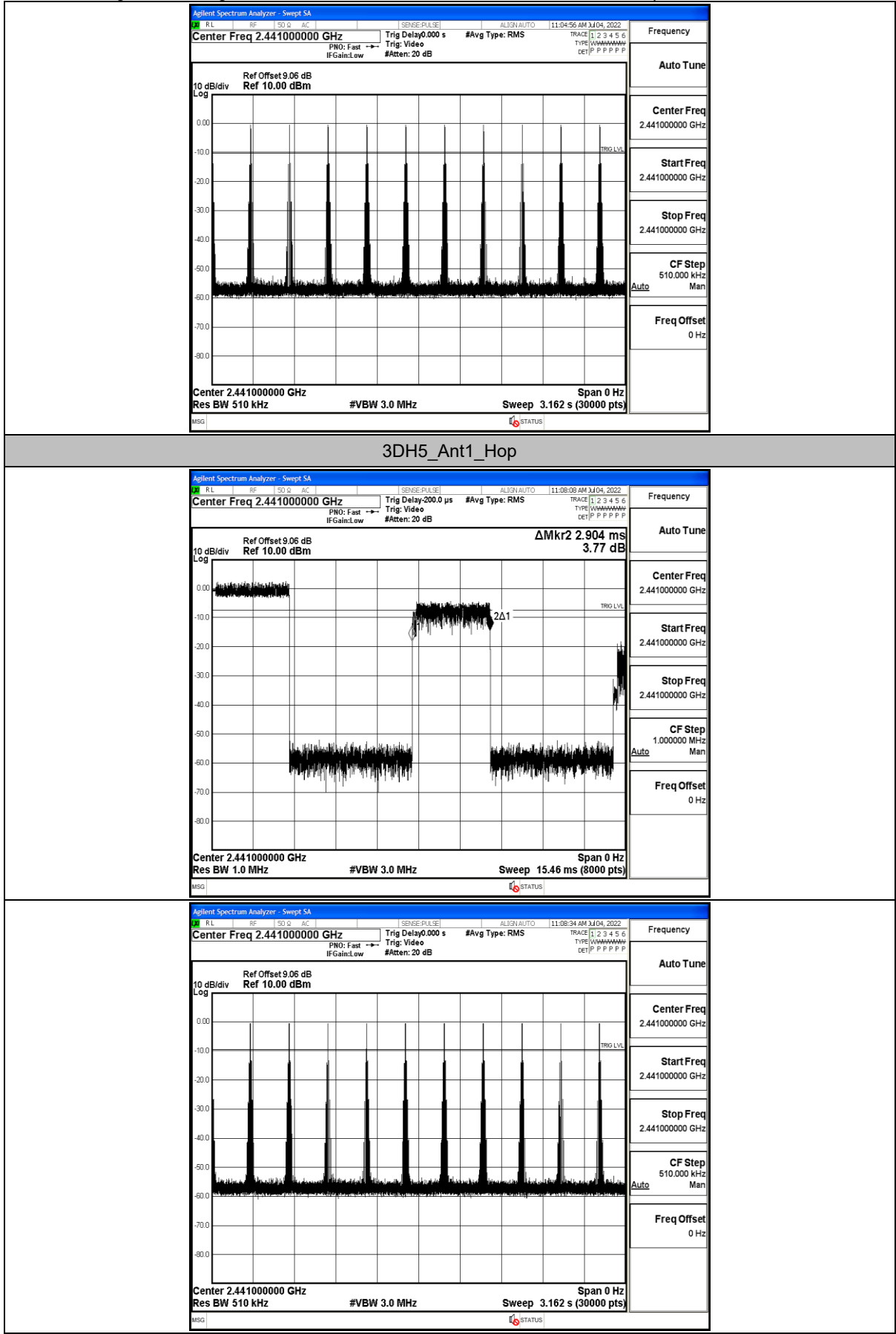
Center Freq2.441000000 GHz

Start Freq2.441000000 GHz

Stop Freq2.441000000 GHz

CF Step1.000000 MHzAutoMan

Freq Offset0 Hz

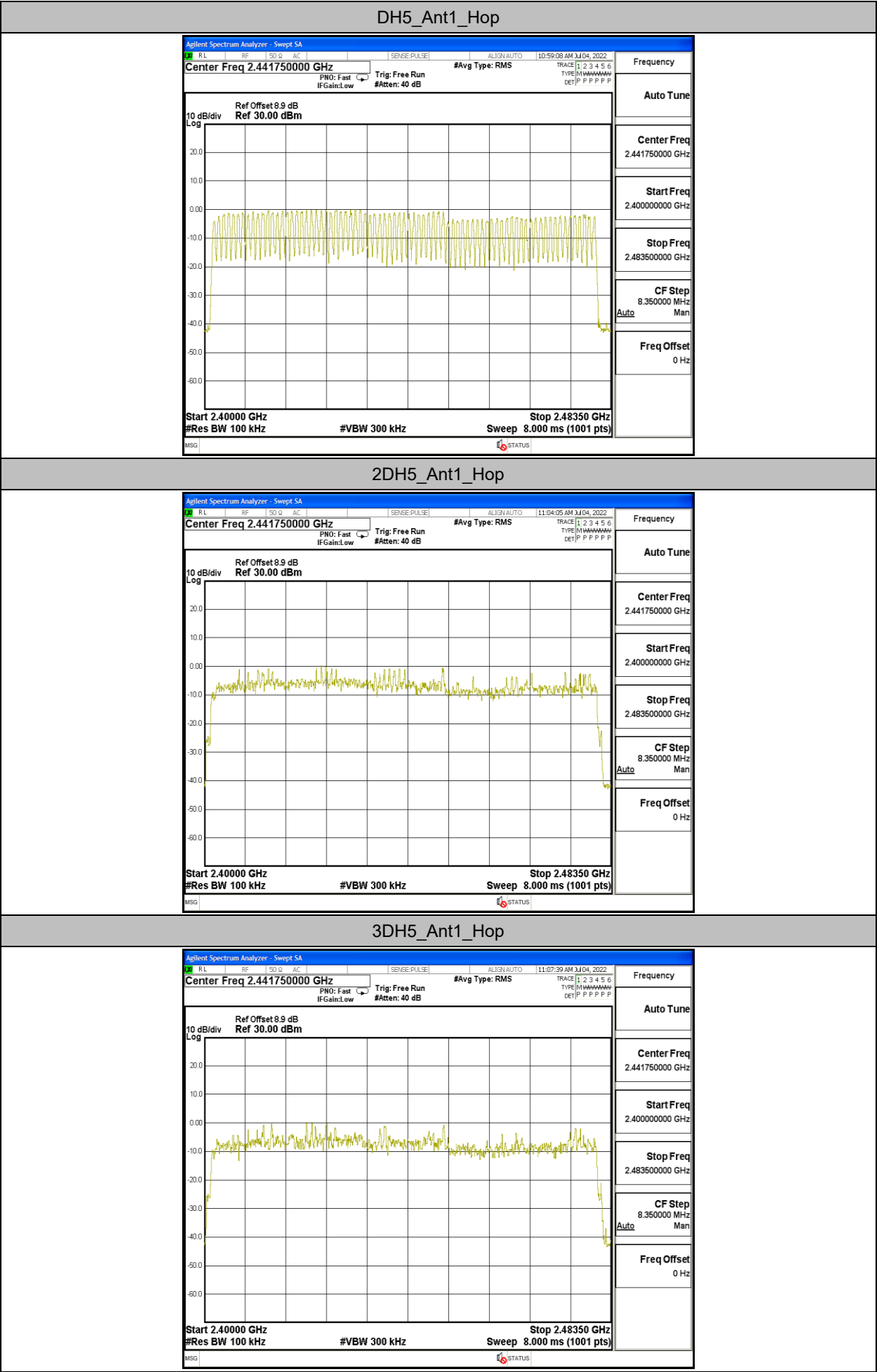


## Appendix F: Number of hopping channels

### Test Result

| TestMode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | Hop     | 79          | ≥15        | PASS    |
| 2DH5     | Ant1    | Hop     | 79          | ≥15        | PASS    |
| 3DH5     | Ant1    | Hop     | 79          | ≥15        | PASS    |

Test Graphs



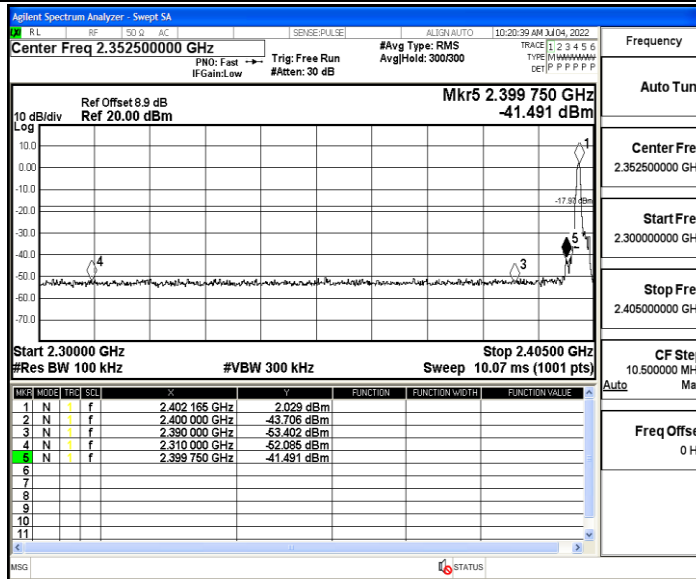
## Appendix G: Band edge measurements

### Test Result

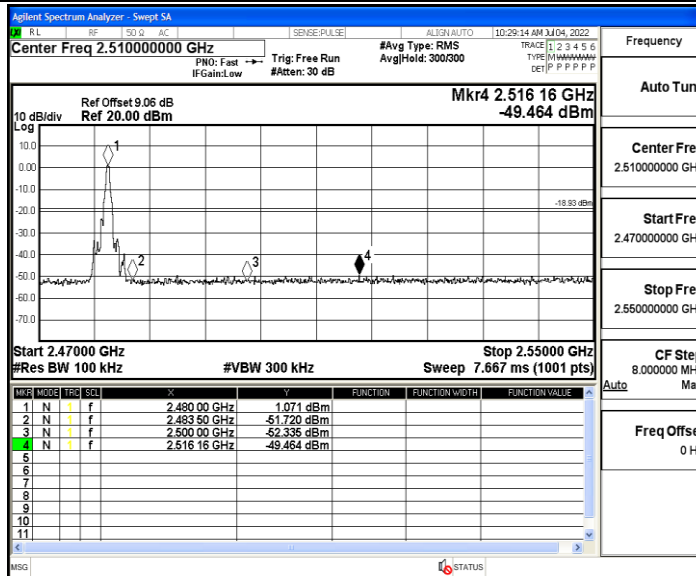
| TestMode | Antenna | ChName | Channel  | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|----------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | Low    | 2402     | 2.03              | -41.49          | $\leq -17.97$  | PASS    |
|          |         | High   | 2480     | 1.07              | -49.46          | $\leq -18.93$  | PASS    |
|          |         | Low    | Hop_2402 | -2.08             | -49.75          | $\leq -22.08$  | PASS    |
|          |         | High   | Hop_2480 | -2.07             | -48.88          | $\leq -22.07$  | PASS    |
| 2DH5     | Ant1    | Low    | 2402     | -1.65             | -38.81          | $\leq -21.65$  | PASS    |
|          |         | High   | 2480     | -1.42             | -49.28          | $\leq -21.42$  | PASS    |
|          |         | Low    | Hop_2402 | -3.98             | -50.6           | $\leq -23.98$  | PASS    |
|          |         | High   | Hop_2480 | -1.67             | -49.16          | $\leq -21.67$  | PASS    |
| 3DH5     | Ant1    | Low    | 2402     | -3.62             | -39.74          | $\leq -23.62$  | PASS    |
|          |         | High   | 2480     | -1.56             | -49.3           | $\leq -21.56$  | PASS    |
|          |         | Low    | Hop_2402 | -1.47             | -50.2           | $\leq -21.47$  | PASS    |
|          |         | High   | Hop_2480 | -1.56             | -49.02          | $\leq -21.56$  | PASS    |

## Test Graphs

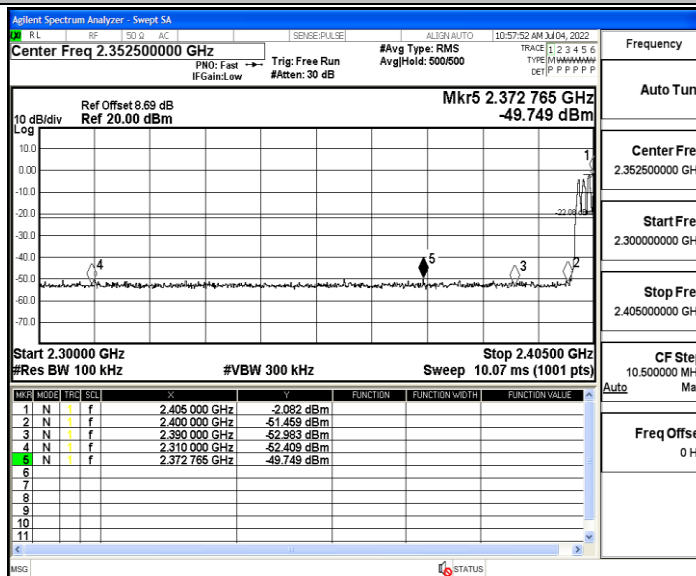
DH5\_Ant1\_Low\_2402



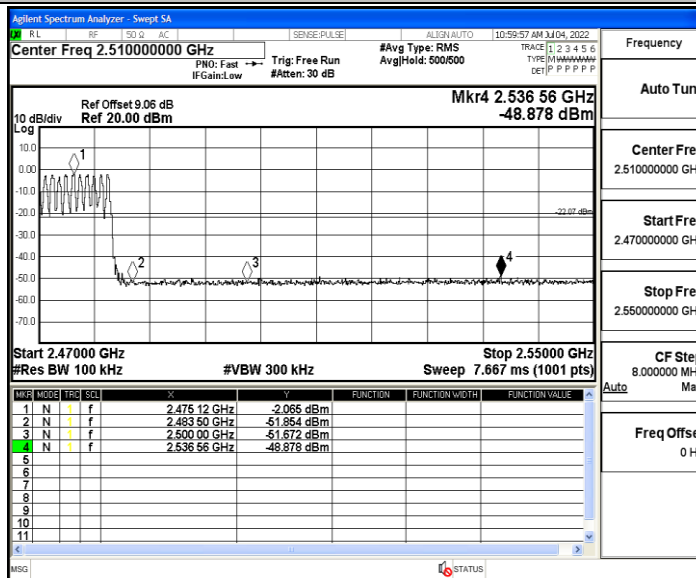
DH5\_Ant1\_High\_2480



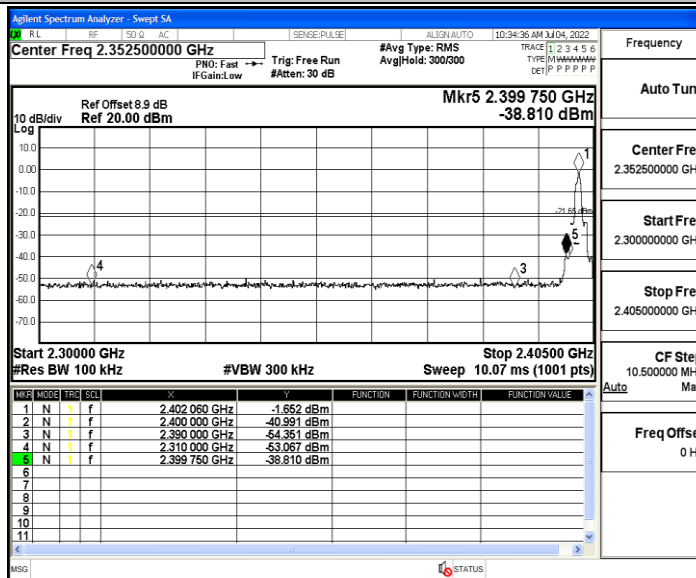
DH5\_Ant1\_Low\_Hop\_2402



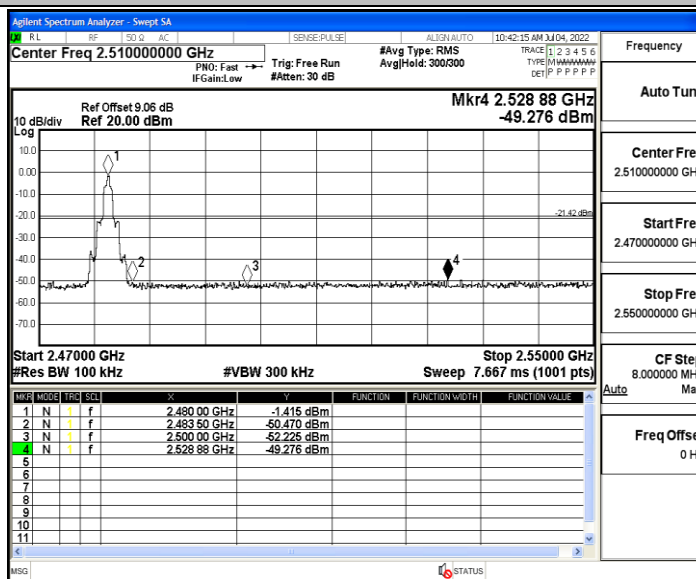
## DH5\_Ant1\_High\_Hop\_2480



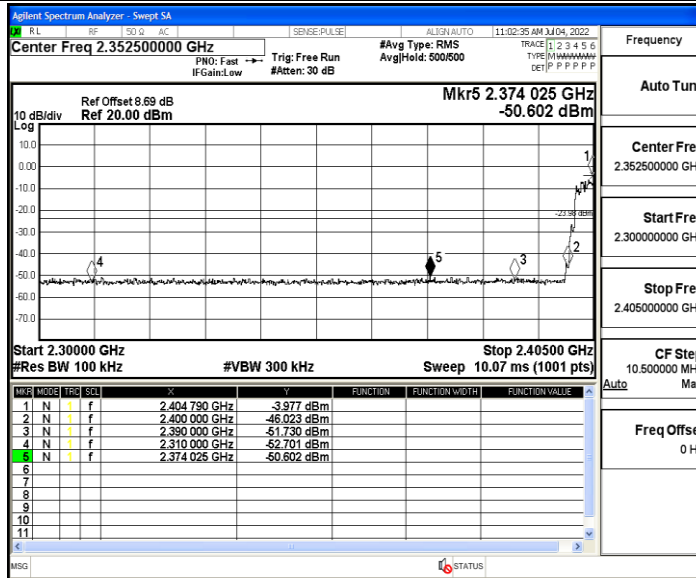
## 2DH5\_Ant1\_Low\_2402



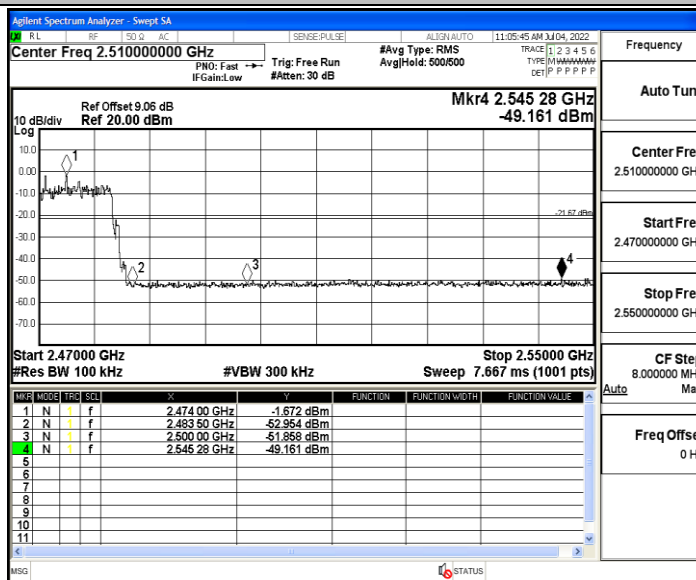
## 2DH5\_Ant1\_High\_2480



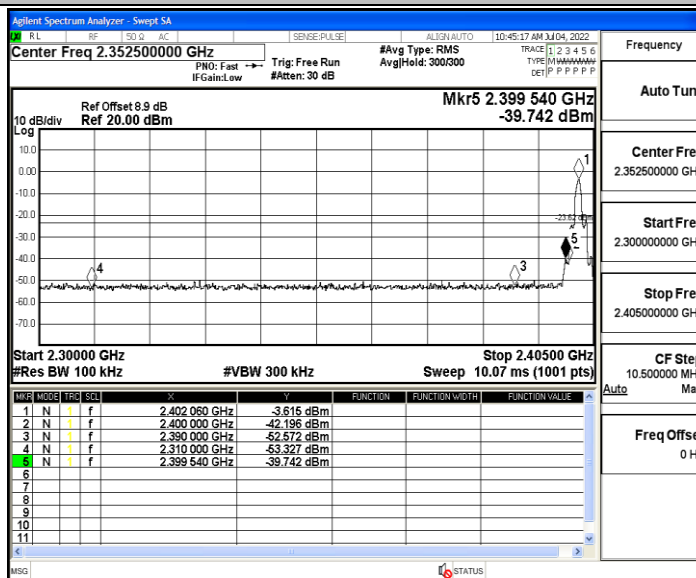
## 2DH5\_Ant1\_Low\_Hop\_2402



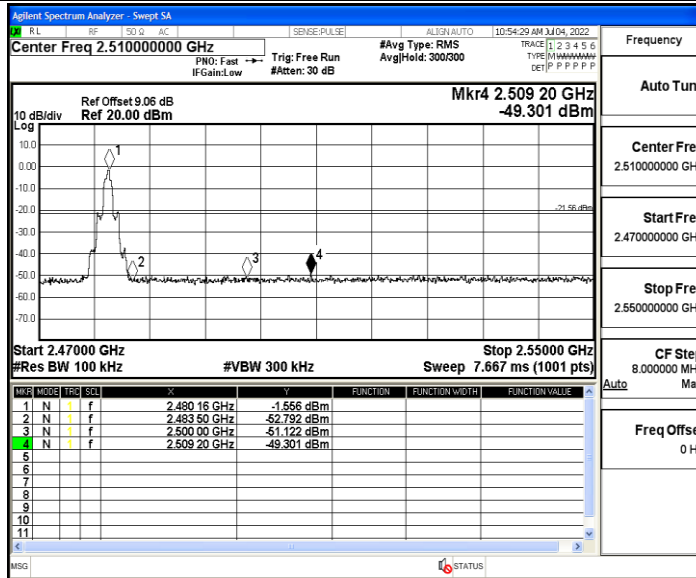
2DH5\_Ant1\_High\_Hop\_2480



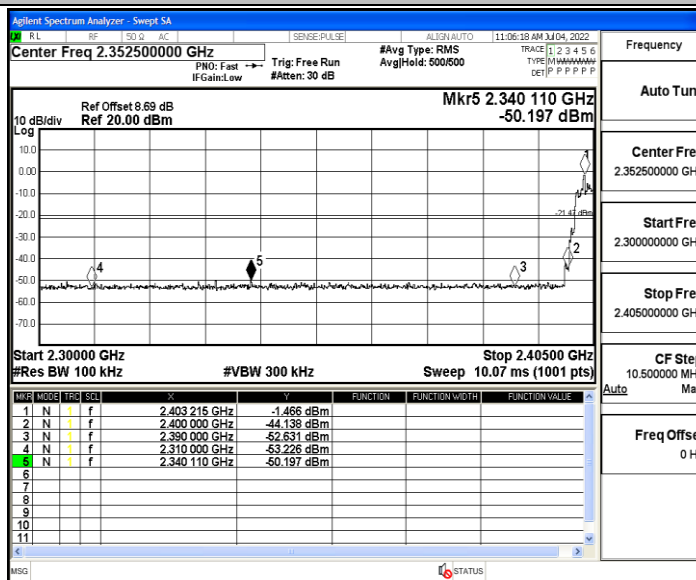
3DH5\_Ant1\_Low\_2402



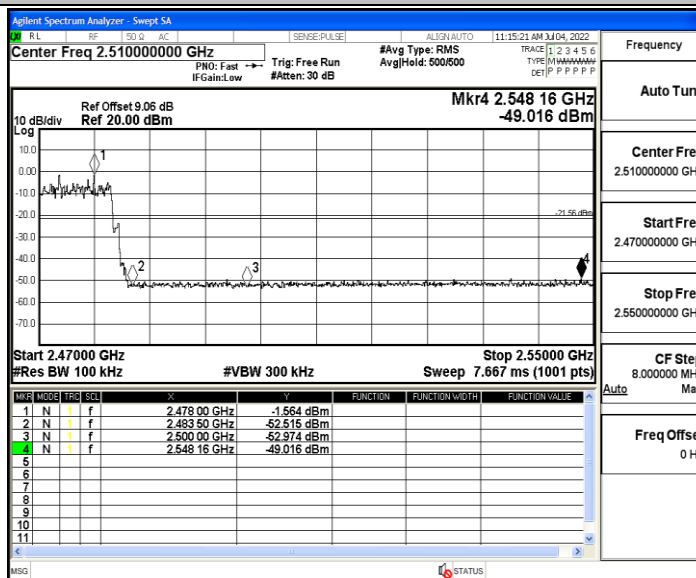
3DH5\_Ant1\_High\_2480



## 3DH5\_Ant1\_Low\_Hop\_2402



## 3DH5\_Ant1\_High\_Hop\_2480

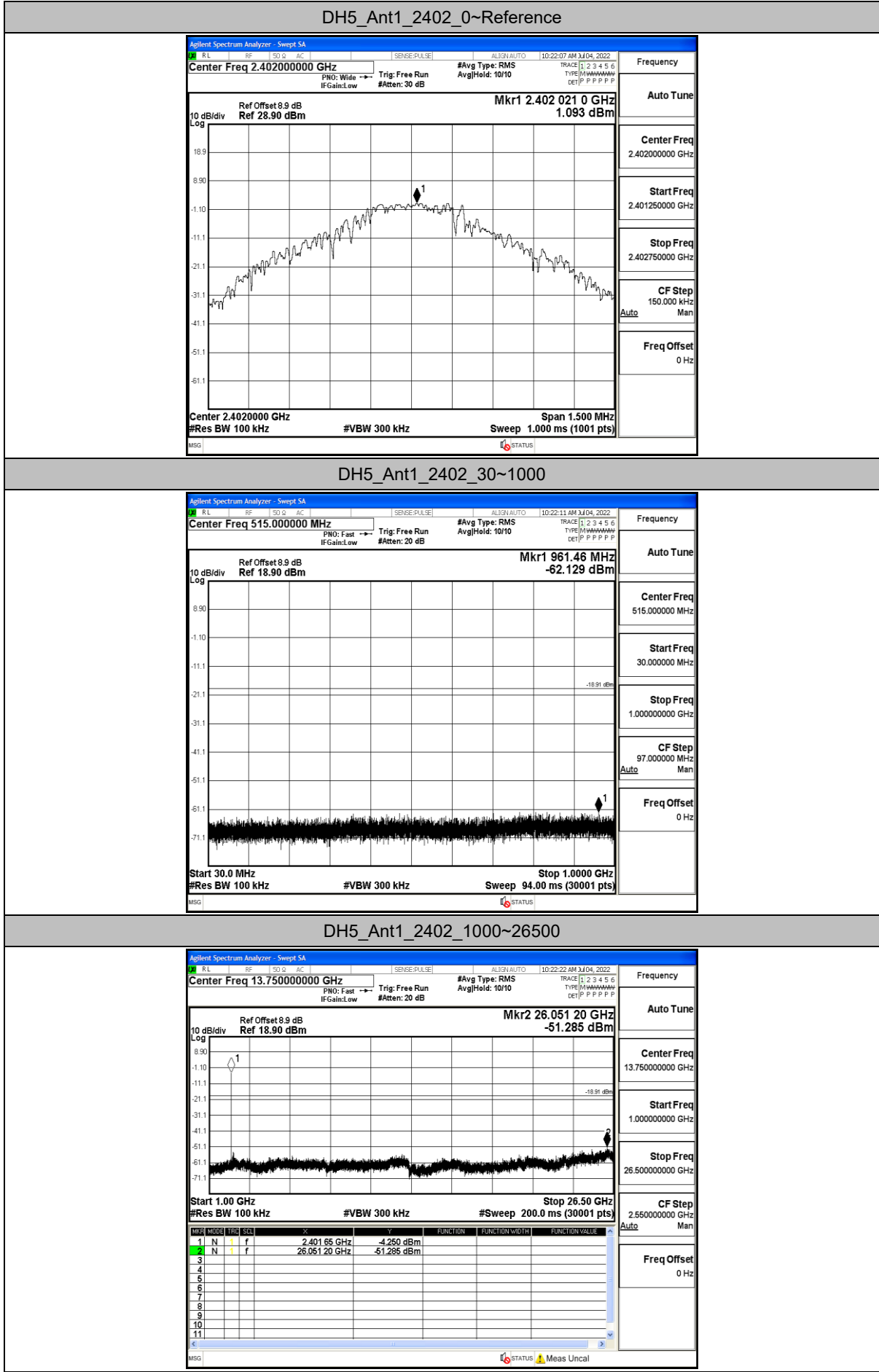


## Appendix H: Conducted Spurious Emission

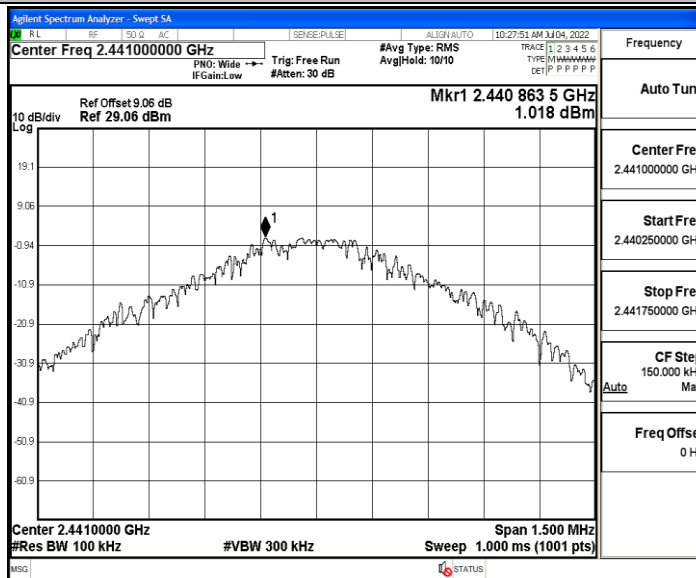
### Test Result

| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | 2402    | Reference          | 1.09              | 1.09            | ---            | PASS    |
|          |         |         | 30~1000            | 1.09              | -62.13          | ≤-18.91        | PASS    |
|          |         |         | 1000~26500         | 1.09              | -51.29          | ≤-18.91        | PASS    |
|          |         | 2441    | Reference          | 1.02              | 1.02            | ---            | PASS    |
|          |         |         | 30~1000            | 1.02              | -61.1           | ≤-18.98        | PASS    |
|          |         |         | 1000~26500         | 1.02              | -51.04          | ≤-18.98        | PASS    |
|          |         | 2480    | Reference          | 0.85              | 0.85            | ---            | PASS    |
|          |         |         | 30~1000            | 0.85              | -61.33          | ≤-19.15        | PASS    |
|          |         |         | 1000~26500         | 0.85              | -50.81          | ≤-19.15        | PASS    |
| 2DH5     | Ant1    | 2402    | Reference          | -3.80             | -3.80           | ---            | PASS    |
|          |         |         | 30~1000            | -3.80             | -61.38          | ≤-23.8         | PASS    |
|          |         |         | 1000~26500         | -3.80             | -51.81          | ≤-23.8         | PASS    |
|          |         | 2441    | Reference          | -2.24             | -2.24           | ---            | PASS    |
|          |         |         | 30~1000            | -2.24             | -60.84          | ≤-22.24        | PASS    |
|          |         |         | 1000~26500         | -2.24             | -51.46          | ≤-22.24        | PASS    |
|          |         | 2480    | Reference          | -6.21             | -6.21           | ---            | PASS    |
|          |         |         | 30~1000            | -6.21             | -61.19          | ≤-26.21        | PASS    |
|          |         |         | 1000~26500         | -6.21             | -51.97          | ≤-26.21        | PASS    |
| 3DH5     | Ant1    | 2402    | Reference          | -5.79             | -5.79           | ---            | PASS    |
|          |         |         | 30~1000            | -5.79             | -61.6           | ≤-25.79        | PASS    |
|          |         |         | 1000~26500         | -5.79             | -50.04          | ≤-25.79        | PASS    |
|          |         | 2441    | Reference          | -3.69             | -3.69           | ---            | PASS    |
|          |         |         | 30~1000            | -3.69             | -61.19          | ≤-23.69        | PASS    |
|          |         |         | 1000~26500         | -3.69             | -51.98          | ≤-23.69        | PASS    |
|          |         | 2480    | Reference          | -1.58             | -1.58           | ---            | PASS    |
|          |         |         | 30~1000            | -1.58             | -61.45          | ≤-21.58        | PASS    |
|          |         |         | 1000~26500         | -1.58             | -50.38          | ≤-21.58        | PASS    |

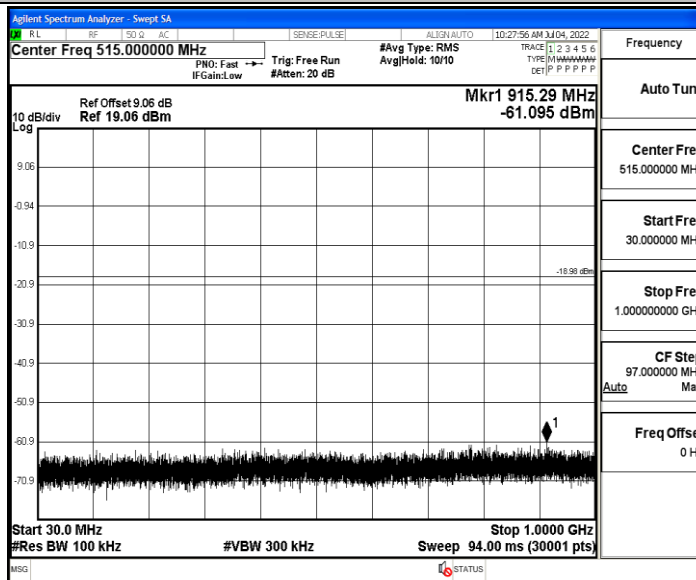
Test Graphs



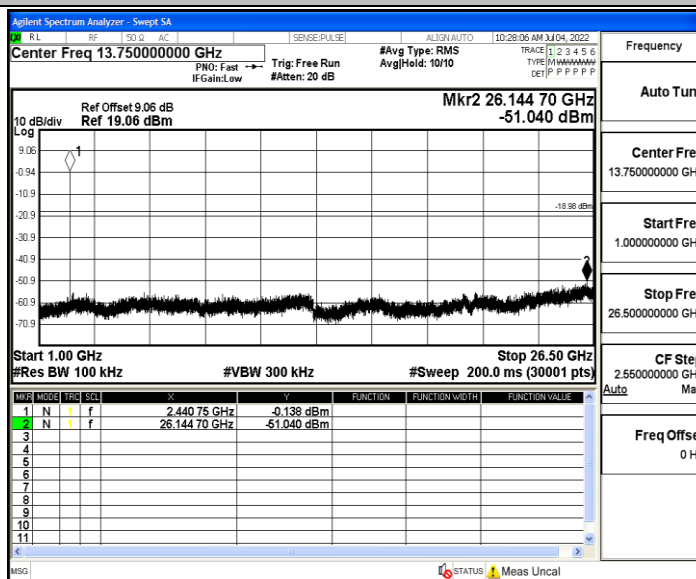
## DH5\_Ant1\_2441\_0~Reference



## DH5\_Ant1\_2441\_30~1000

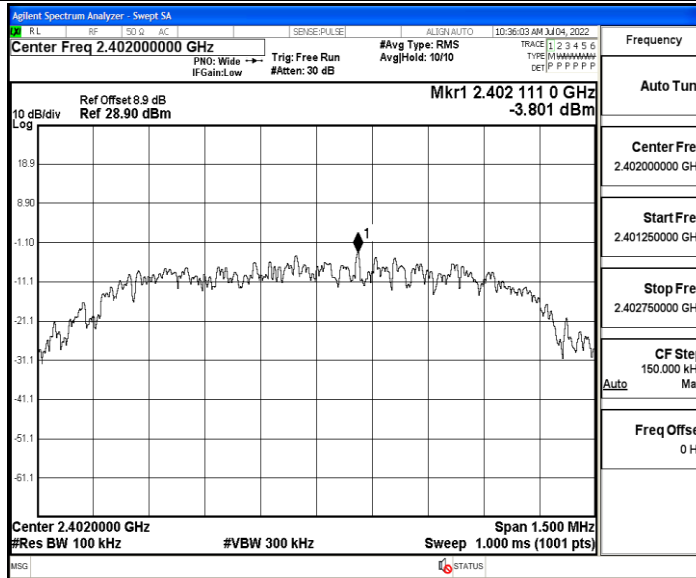


## DH5\_Ant1\_2441\_1000~26500

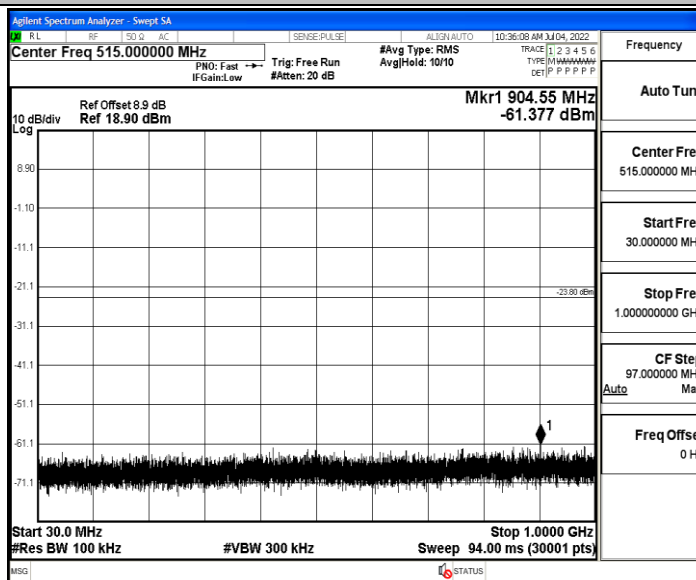


## DH5\_Ant1\_2480\_0~Reference

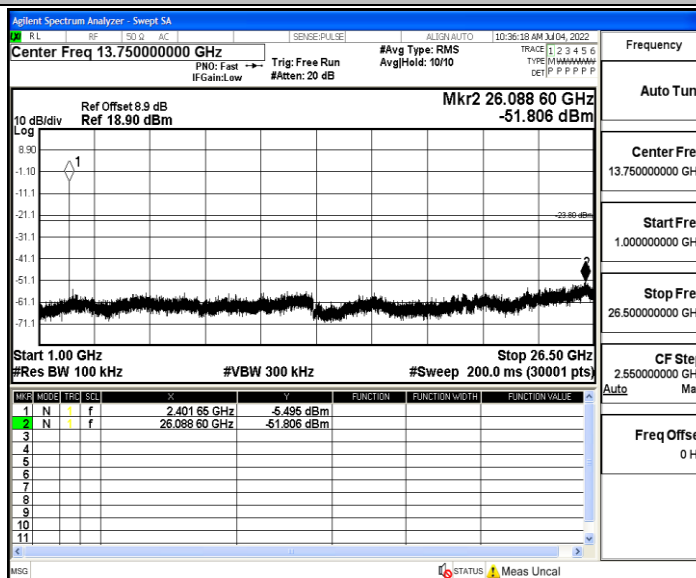




2DH5\_Ant1\_2402\_30~1000



2DH5\_Ant1\_2402\_1000~26500



2DH5\_Ant1\_2441\_0~Reference