

Mode2 / Polarization: Horizontal / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 4960.000 | 63.02         | -7.73          | 55.29        | 74.00  | -18.71 | peak     |
| 2   | *   | 4960.000 | 57.55         | -7.73          | 49.82        | 54.00  | -4.18  | AVG      |
| 3   |     | 7440.000 | 46.74         | 0.78           | 47.52        | 74.00  | -26.48 | peak     |
| 4   |     | 7440.000 | 40.58         | 0.78           | 41.36        | 54.00  | -12.64 | AVG      |
| 5   |     | 9920.000 | 51.59         | 2.47           | 54.06        | 74.00  | -19.94 | peak     |
| 6   |     | 9920.000 | 46.65         | 2.47           | 49.12        | 54.00  | -4.88  | AVG      |

Mode2 / Polarization: Vertical / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 4960.000 | 54.97         | -7.73          | 47.24        | 74.00  | -26.76 | peak     |
| 2   |     | 4960.000 | 49.09         | -7.73          | 41.36        | 54.00  | -12.64 | AVG      |
| 3   |     | 7440.000 | 46.56         | 0.78           | 47.34        | 74.00  | -26.66 | peak     |
| 4   |     | 7440.000 | 40.60         | 0.78           | 41.38        | 54.00  | -12.62 | AVG      |
| 5   |     | 9920.000 | 48.97         | 2.47           | 51.44        | 74.00  | -22.56 | peak     |
| 6   | *   | 9920.000 | 43.00         | 2.47           | 45.47        | 54.00  | -8.53  | AVG      |

Right:

Mode2 / Polarization: Horizontal / CH: L

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4804.000 | 59.05         | -7.70          | 51.35       | 74.00  | -22.65 | peak     |
| 2   | *   | 4804.000 | 54.06         | -7.70          | 46.36       | 54.00  | -7.64  | AVG      |
| 3   |     | 7206.000 | 46.03         | 0.84           | 46.87       | 74.00  | -27.13 | peak     |
| 4   |     | 7206.000 | 40.52         | 0.84           | 41.36       | 54.00  | -12.64 | AVG      |
| 5   |     | 9608.000 | 49.25         | 1.81           | 51.06       | 74.00  | -22.94 | peak     |
| 6   |     | 9608.000 | 44.51         | 1.81           | 46.32       | 54.00  | -7.68  | AVG      |

Mode2 / Polarization: Vertical / CH: L

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4804.000 | 53.49         | -7.70          | 45.79       | 74.00  | -28.21 | peak     |
| 2   |     | 4804.000 | 48.06         | -7.70          | 40.36       | 54.00  | -13.64 | AVG      |
| 3   |     | 7206.000 | 46.44         | 0.84           | 47.28       | 74.00  | -26.72 | peak     |
| 4   |     | 7206.000 | 41.41         | 0.84           | 42.25       | 54.00  | -11.75 | AVG      |
| 5   |     | 9608.000 | 48.85         | 1.81           | 50.66       | 74.00  | -23.34 | peak     |
| 6   | *   | 9608.000 | 43.86         | 1.81           | 45.67       | 54.00  | -8.33  | AVG      |

Mode2 / Polarization: Horizontal / CH: M

| No. Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|---------|----------|---------------|----------------|-------------|--------|--------|----------|
|         | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1       | 4882.000 | 52.14         | -7.84          | 44.30       | 74.00  | -29.70 | peak     |
| 2       | 4882.000 | 47.38         | -7.84          | 39.54       | 54.00  | -14.46 | AVG      |
| 3       | 7323.000 | 47.35         | 0.61           | 47.96       | 74.00  | -26.04 | peak     |
| 4       | 7323.000 | 45.06         | 0.61           | 45.67       | 54.00  | -8.33  | AVG      |
| 5       | 9764.000 | 48.67         | 2.61           | 51.28       | 74.00  | -22.72 | peak     |
| 6 *     | 9764.000 | 43.97         | 2.61           | 46.58       | 54.00  | -7.42  | AVG      |

Mode2 / Polarization: Vertical / CH: M

| No. Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|---------|----------|---------------|----------------|-------------|--------|--------|----------|
|         | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1       | 4882.000 | 58.72         | -7.84          | 50.88       | 74.00  | -23.12 | peak     |
| 2       | 4882.000 | 53.68         | -7.84          | 45.84       | 54.00  | -8.16  | AVG      |
| 3       | 7323.000 | 46.76         | 0.61           | 47.37       | 74.00  | -26.63 | peak     |
| 4       | 7323.000 | 41.71         | 0.61           | 42.32       | 54.00  | -11.68 | AVG      |
| 5       | 9764.000 | 48.89         | 2.61           | 51.50       | 74.00  | -22.50 | peak     |
| 6 *     | 9764.000 | 43.64         | 2.61           | 46.25       | 54.00  | -7.75  | AVG      |

Mode2 / Polarization: Horizontal / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4960.000 | 57.95         | -7.73          | 50.22       | 74.00  | -23.78 | peak     |
| 2   |     | 4960.000 | 53.05         | -7.73          | 45.32       | 54.00  | -8.68  | AVG      |
| 3   |     | 7440.000 | 46.30         | 0.78           | 47.08       | 74.00  | -26.92 | peak     |
| 4   |     | 7440.000 | 41.34         | 0.78           | 42.12       | 54.00  | -11.88 | AVG      |
| 5   |     | 9920.000 | 48.58         | 2.47           | 51.05       | 74.00  | -22.95 | peak     |
| 6   | *   | 9920.000 | 43.77         | 2.47           | 46.24       | 54.00  | -7.76  | AVG      |

Mode2 / Polarization: Vertical / CH: H

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4960.000 | 53.76         | -7.73          | 46.03       | 74.00  | -27.97 | peak     |
| 2   |     | 4960.000 | 48.85         | -7.73          | 41.12       | 54.00  | -12.88 | AVG      |
| 3   |     | 7440.000 | 46.80         | 0.78           | 47.58       | 74.00  | -26.42 | peak     |
| 4   |     | 7440.000 | 41.58         | 0.78           | 42.36       | 54.00  | -11.64 | AVG      |
| 5   |     | 9920.000 | 48.16         | 2.47           | 50.63       | 74.00  | -23.37 | peak     |
| 6   | *   | 9920.000 | 43.11         | 2.47           | 45.58       | 54.00  | -8.42  | AVG      |

## Photographs of the test setup

Refer to Appendix - test setup

## Photographs of the EUT

Refer to Appendix - EUT Photos

# Appendix

**Note:** Both left and right earphones were tested, and the report only showed worst data on the right earphone.

## Appendix A: 20dB Emission Bandwidth

### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | 20db EBW<br>[MHz] |
|-----------|---------|--------------------|-------------------|
| DH5       | Ant1    | 2402               | 0.957             |
|           |         | 2441               | 1.023             |
|           |         | 2480               | 0.957             |
| 2DH5      | Ant1    | 2402               | 1.290             |
|           |         | 2441               | 1.320             |
|           |         | 2480               | 1.329             |

## Test Graphs



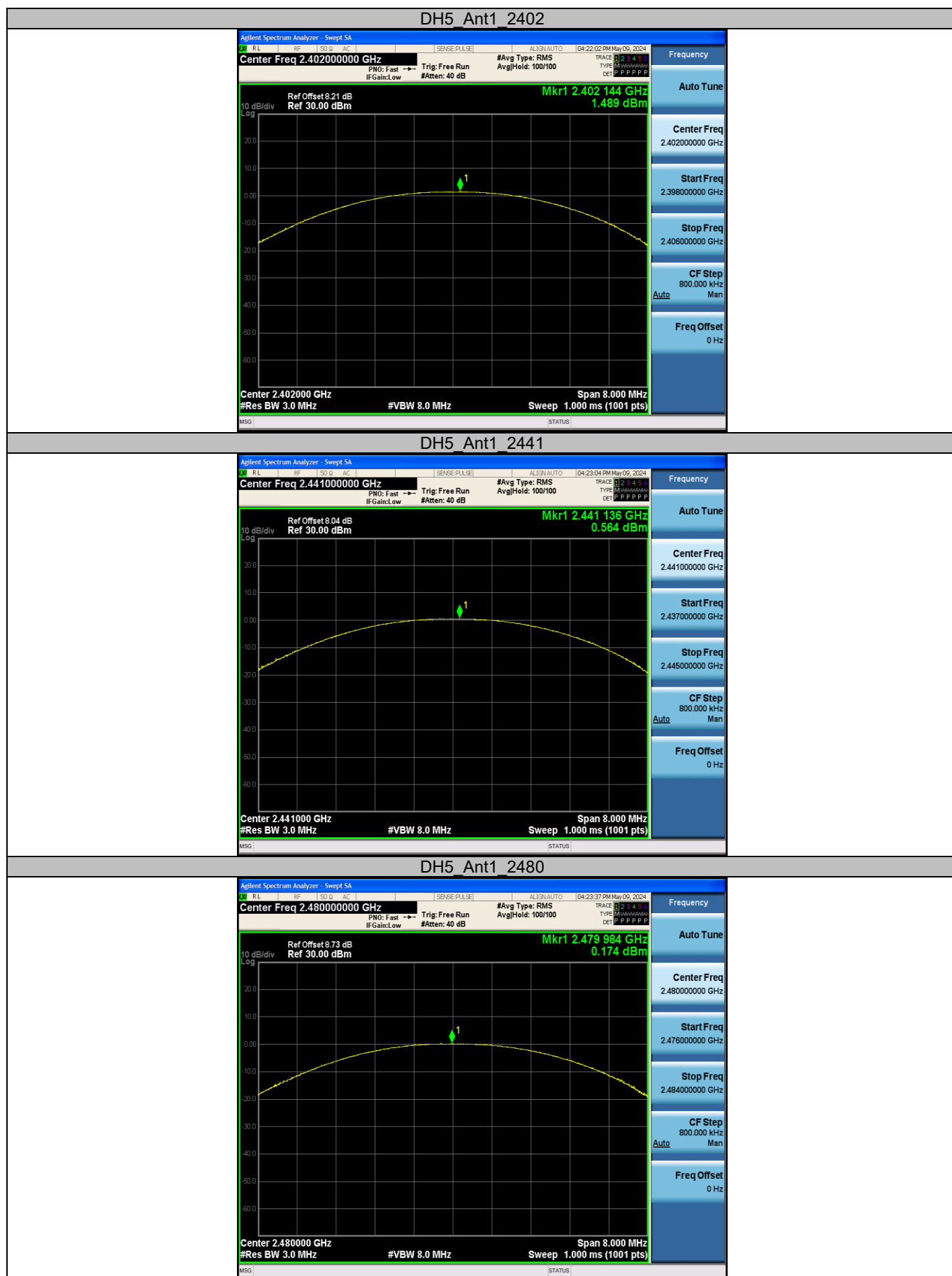


## Appendix B: Maximum conducted output power

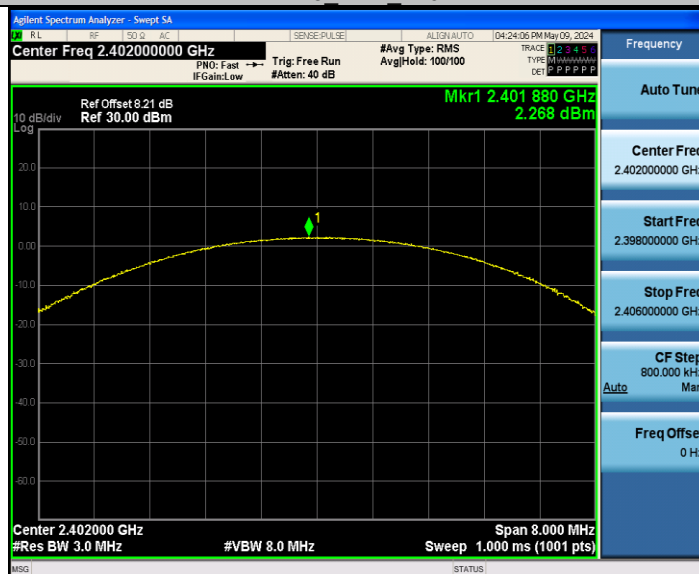
### Test Result Peak

| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|----------------------------|-------------|---------|
| DH5       | Ant1    | 2402            | 1.49                       | ≤30         | PASS    |
|           |         | 2441            | 0.56                       | ≤30         | PASS    |
|           |         | 2480            | 0.17                       | ≤30         | PASS    |
| 2DH5      | Ant1    | 2402            | 2.27                       | ≤20.97      | PASS    |
|           |         | 2441            | 1.32                       | ≤20.97      | PASS    |
|           |         | 2480            | 0.94                       | ≤20.97      | PASS    |

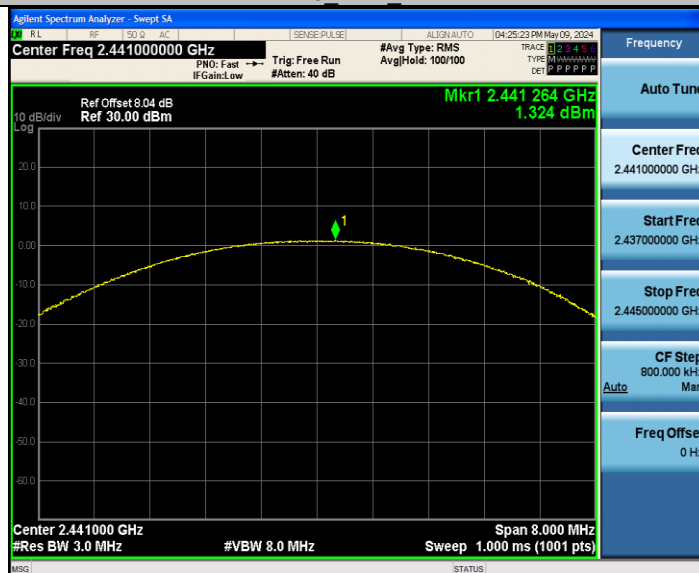
## Test Graphs



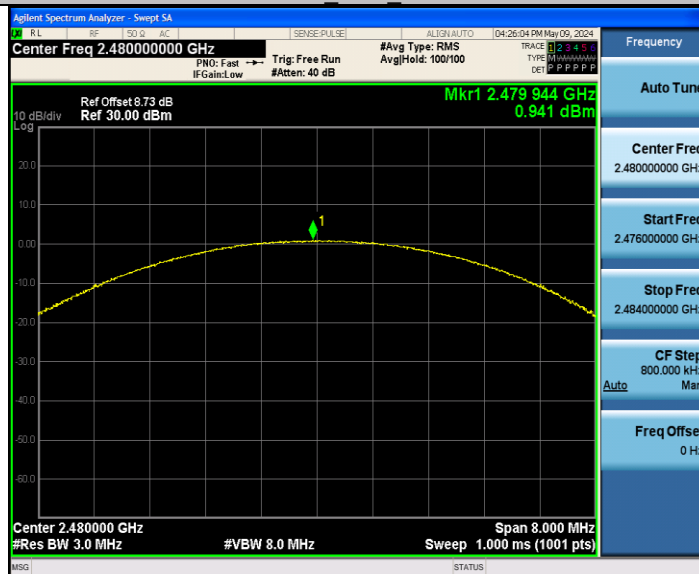
## 2DH5 Ant1\_2402



## 2DH5 Ant1\_2441



## 2DH5 Ant1\_2480



## Appendix C: Carrier frequency separation

### Test Result

| Test Mode | Antenna | Frequency [MHz] | Result [MHz] | Limit [MHz]  | Verdict |
|-----------|---------|-----------------|--------------|--------------|---------|
| DH5       | Ant1    | Hop             | 1            | $\geq 0.682$ | PASS    |
| 2DH5      | Ant1    | Hop             | 1            | $\geq 0.886$ | PASS    |

## Test Graphs



## Appendix D: Time of occupancy

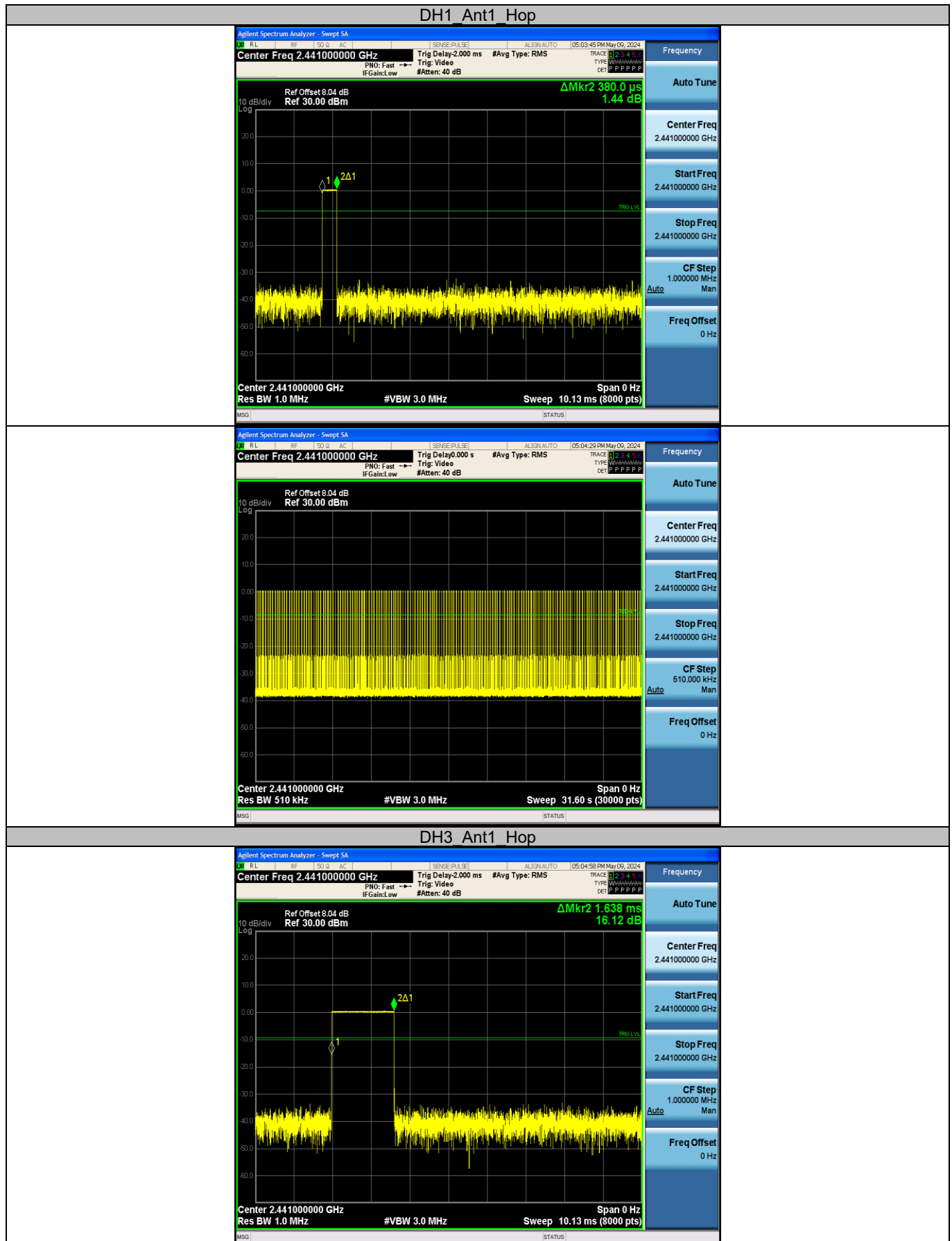
### Test Result

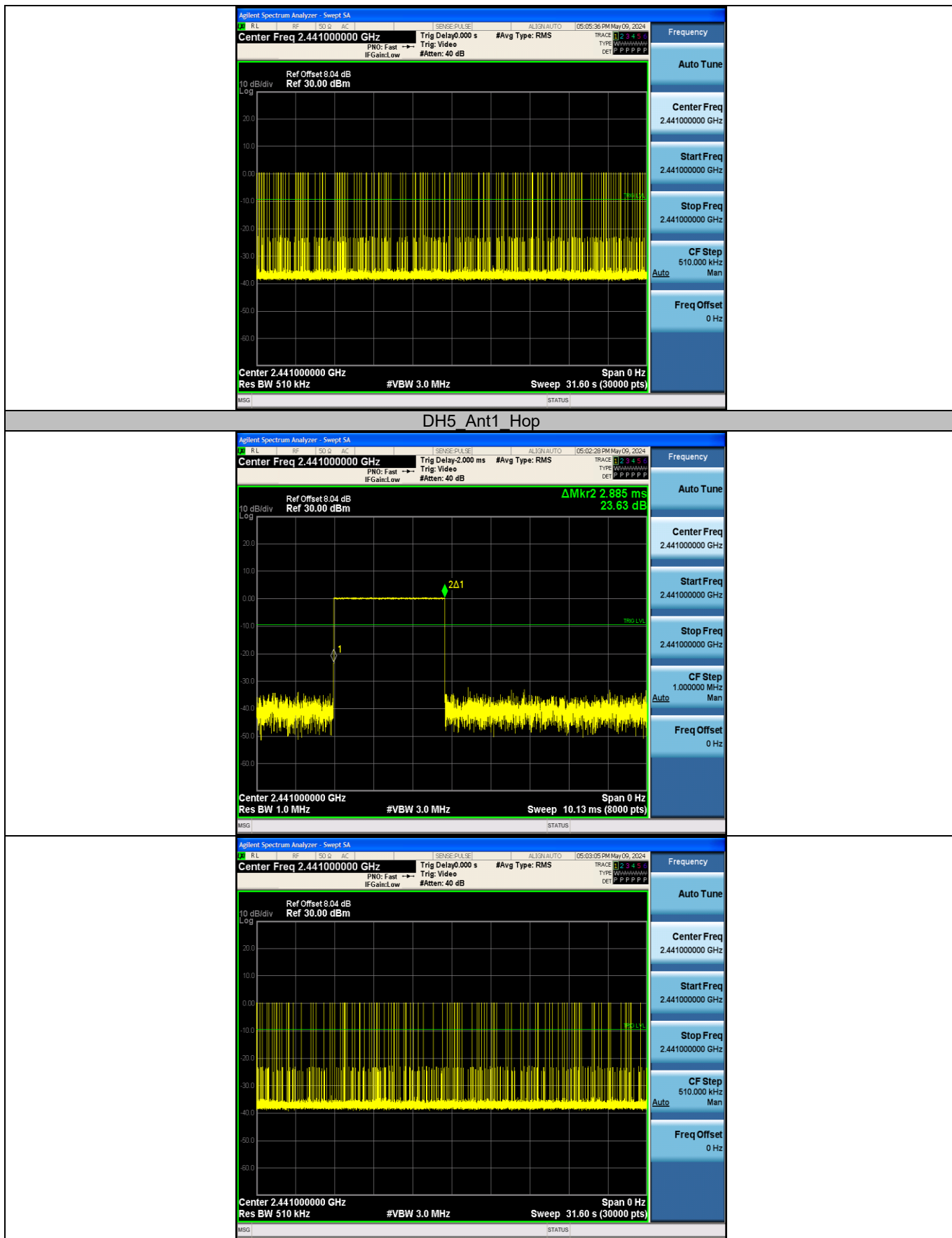
| Test Mode | Antenna | Frequency [MHz] | BurstWidth [ms] | Hops in 31.6s [Num] | Result [s] | Limit [s] | Verdict |
|-----------|---------|-----------------|-----------------|---------------------|------------|-----------|---------|
| DH1       | Ant1    | Hop             | 0.380           | 316                 | 0.12       | ≤0.4      | PASS    |
| DH3       | Ant1    | Hop             | 1.638           | 160                 | 0.262      | ≤0.4      | PASS    |
| DH5       | Ant1    | Hop             | 2.885           | 113                 | 0.326      | ≤0.4      | PASS    |
| 2DH1      | Ant1    | Hop             | 0.390           | 318                 | 0.124      | ≤0.4      | PASS    |
| 2DH3      | Ant1    | Hop             | 1.642           | 168                 | 0.276      | ≤0.4      | PASS    |
| 2DH5      | Ant1    | Hop             | 2.889           | 108                 | 0.312      | ≤0.4      | PASS    |

### Notes:

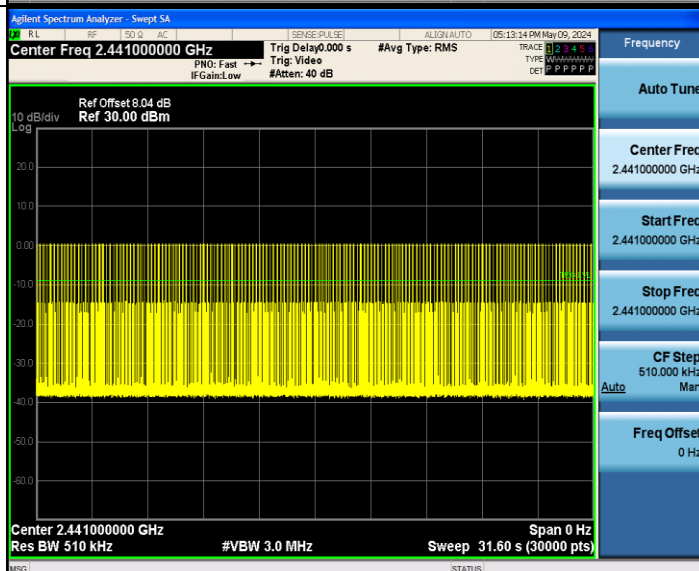
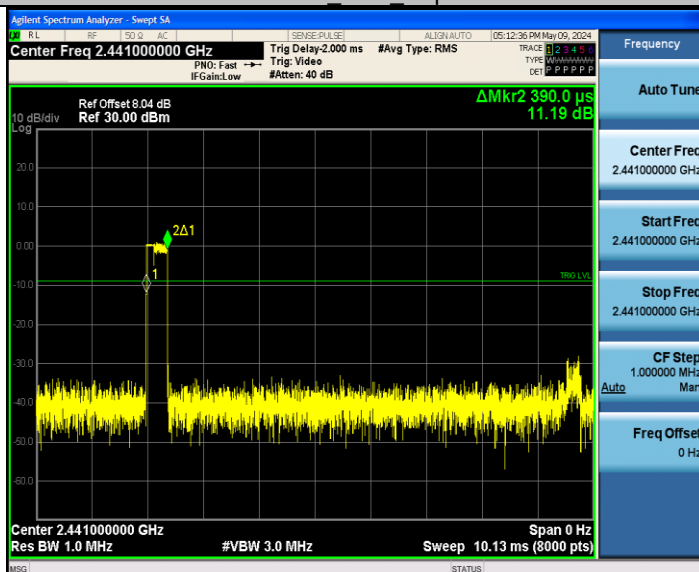
1. Period time =  $0.4s * 79 = 31.6s$
2. Result (Time of occupancy) = BurstWidth[ms] \* Hops in 31.6s [Num]

## Test Graphs

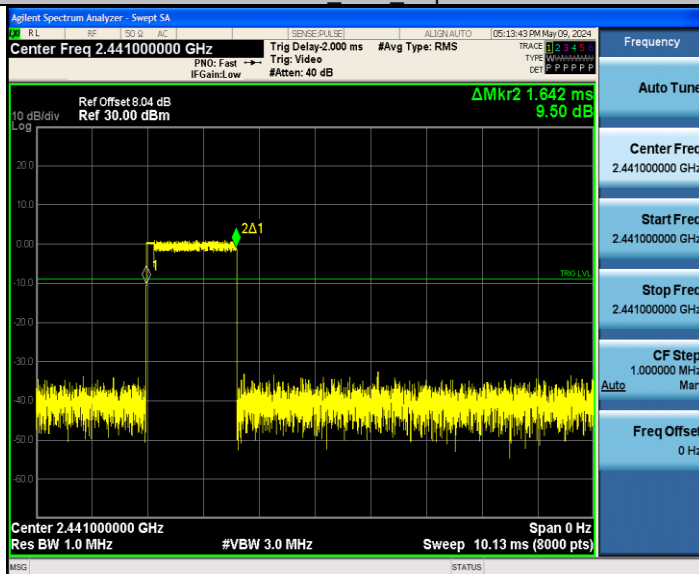


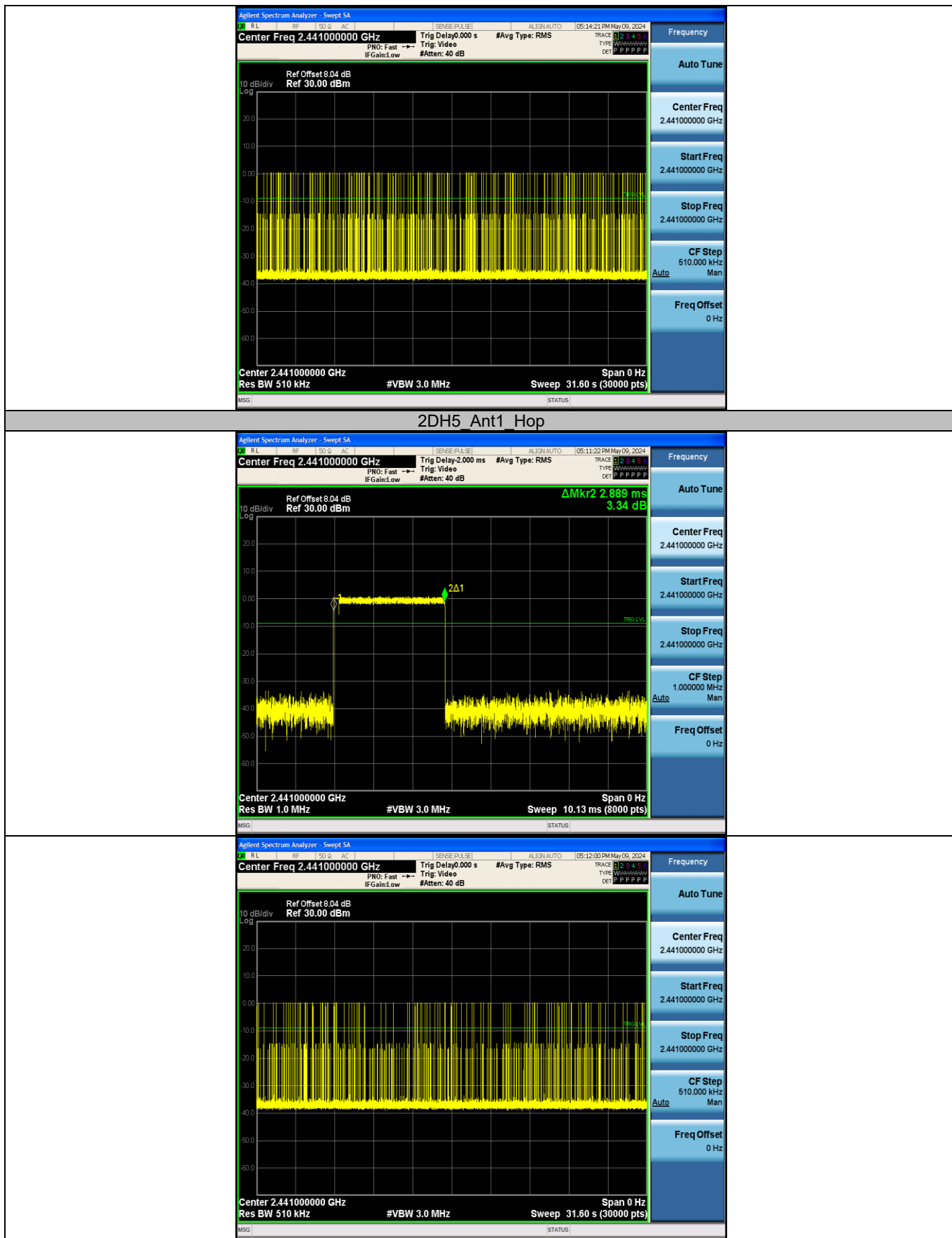


## 2DH1 Ant1 Hop



## 2DH3 Ant1 Hop





## Appendix E: Number of hopping channels

### Test Result

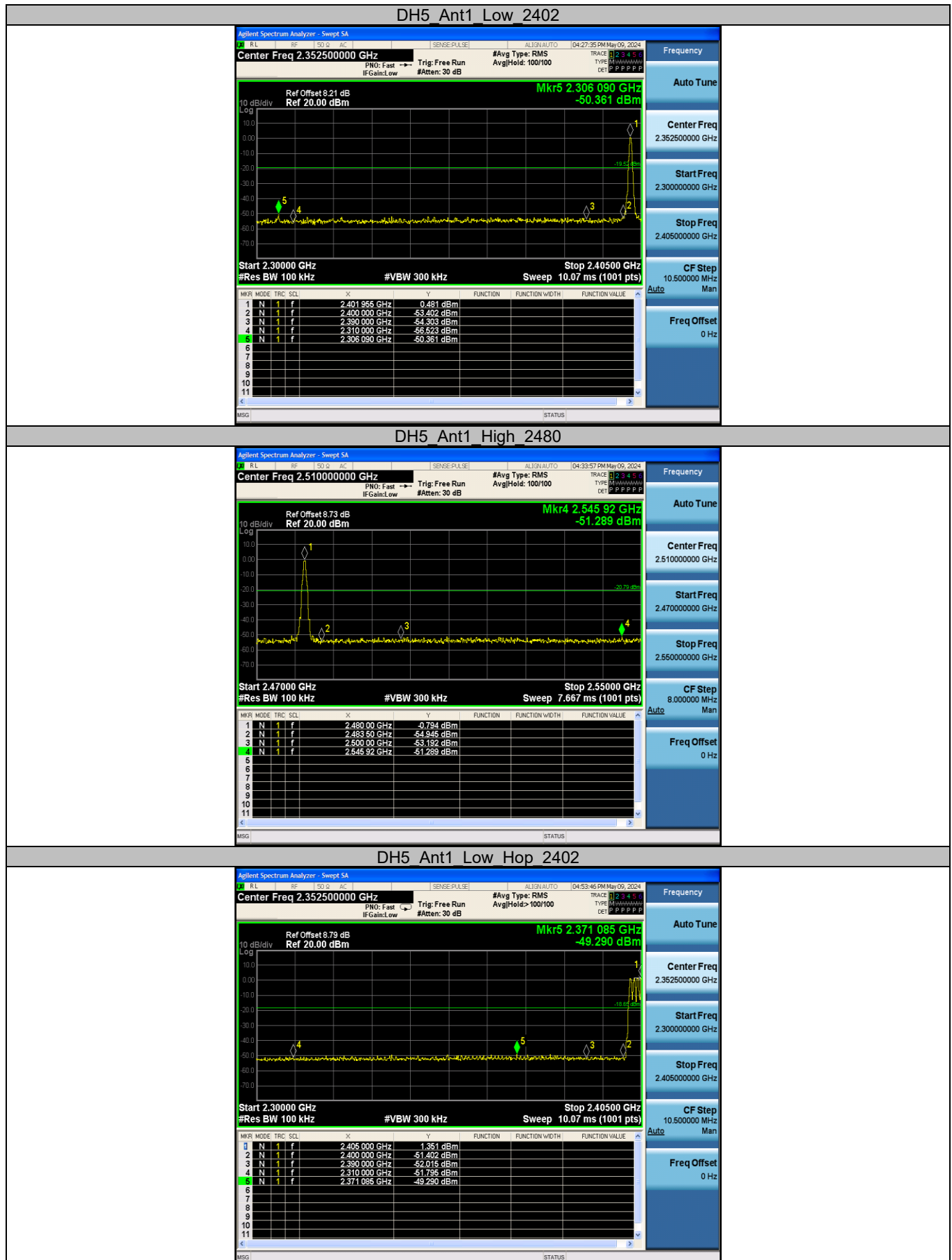
| Test Mode | Antenna | Frequency<br>[MHz] | Result<br>[Num] | Limit<br>[Num] | Verdict |
|-----------|---------|--------------------|-----------------|----------------|---------|
| DH5       | Ant1    | Hop                | 79              | ≥15            | PASS    |
| 2DH5      | Ant1    | Hop                | 79              | ≥15            | PASS    |

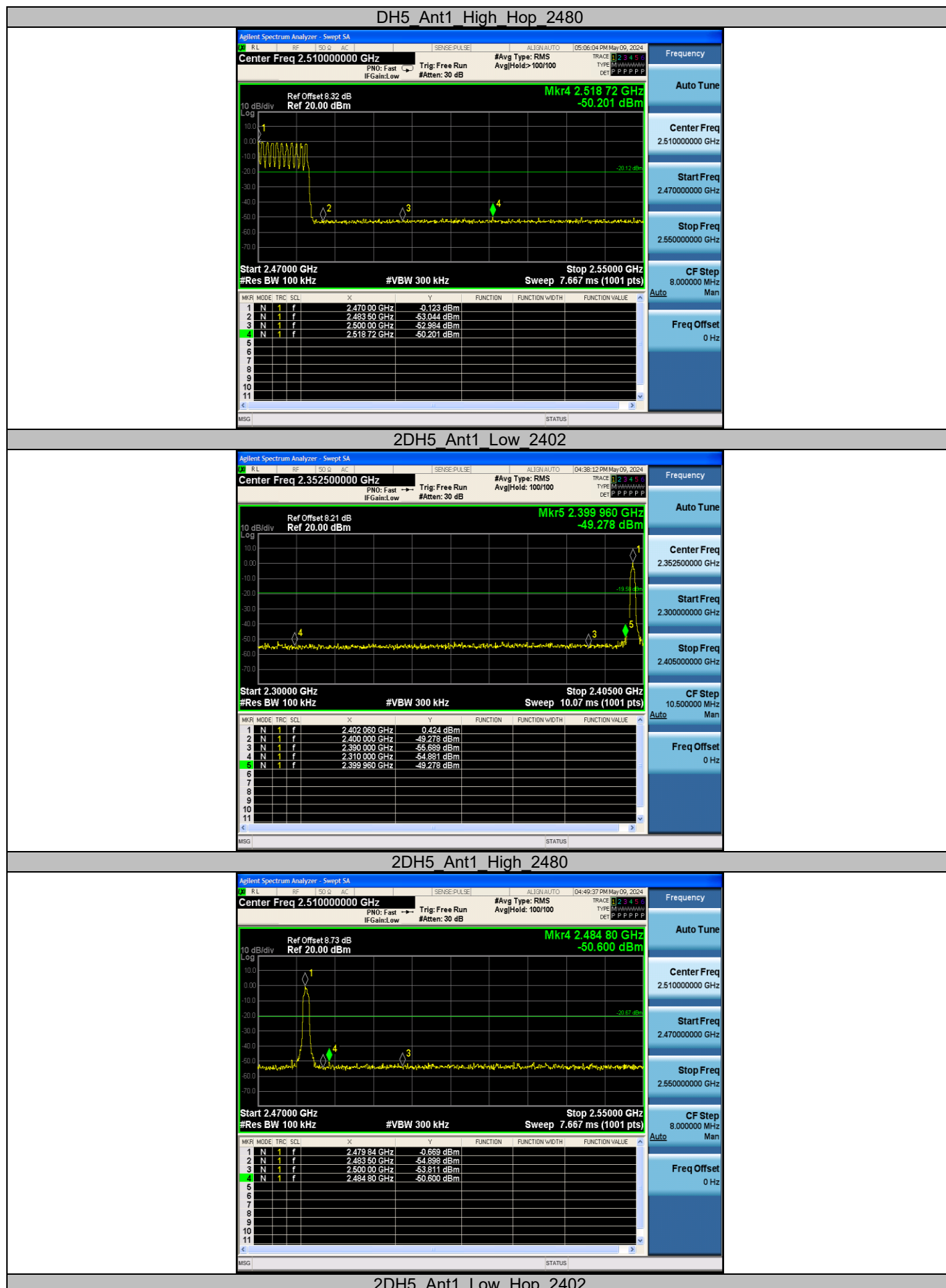
## Test Graphs

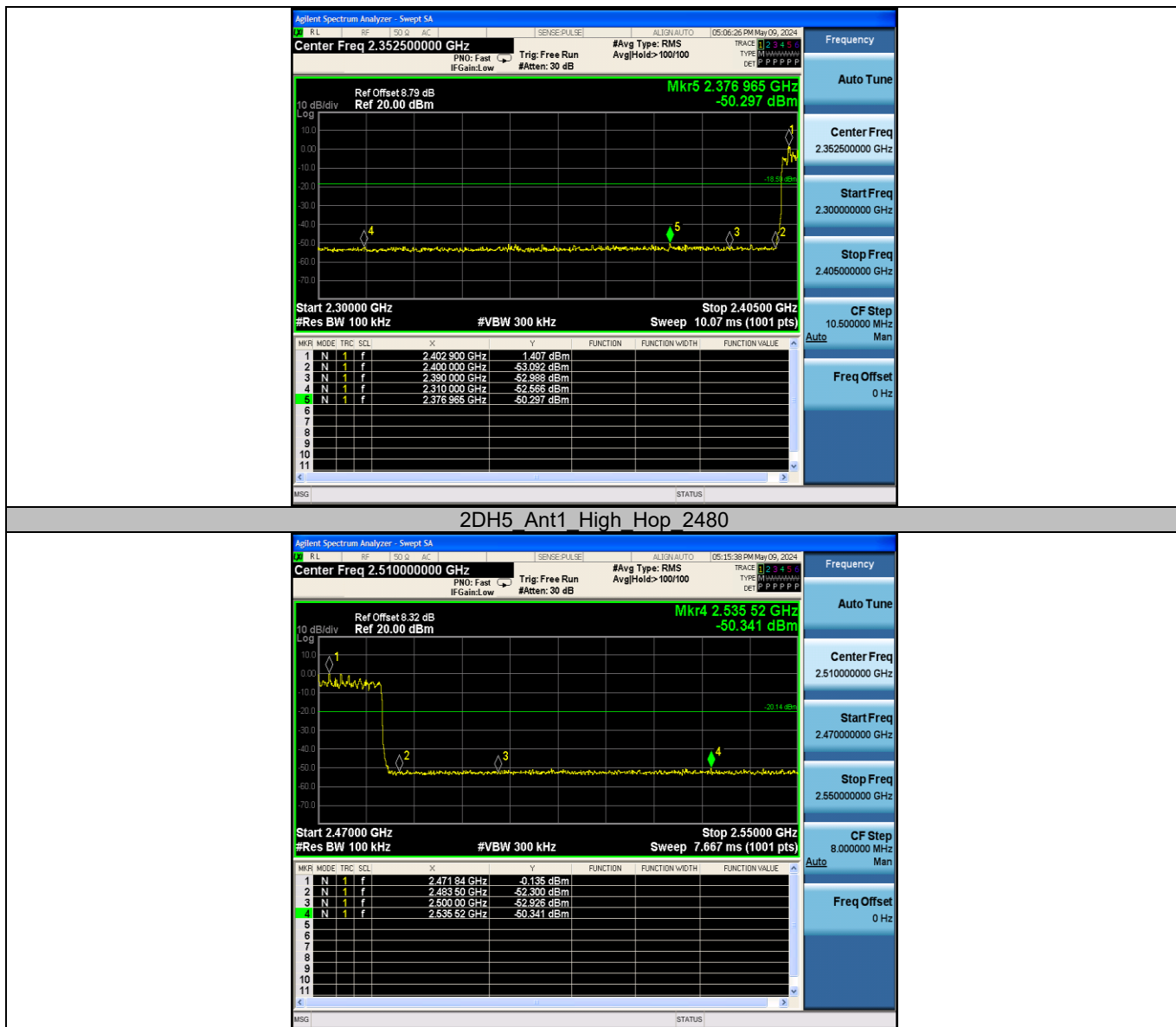


## Appendix F: Band edge measurements

### Test Graphs





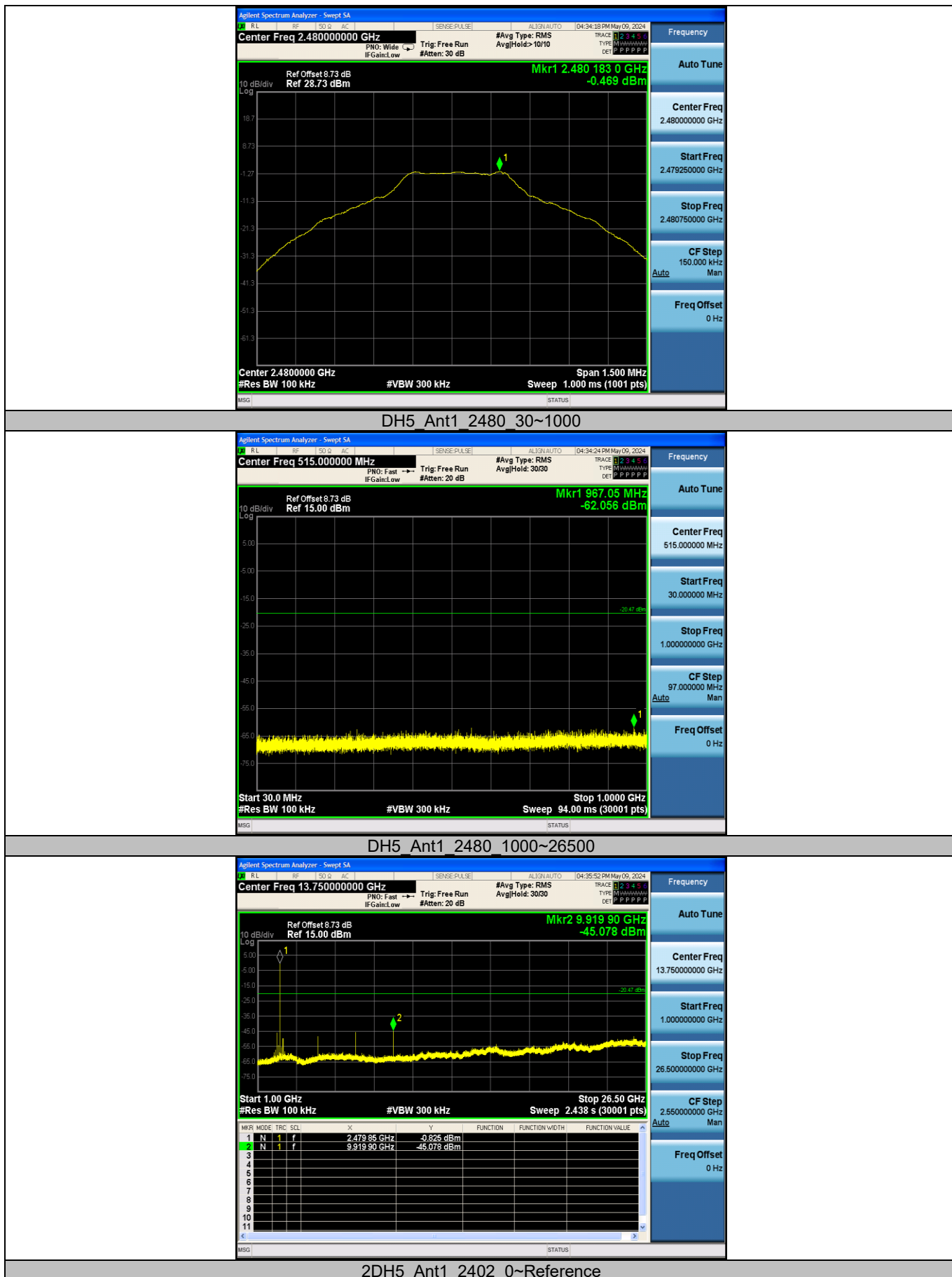


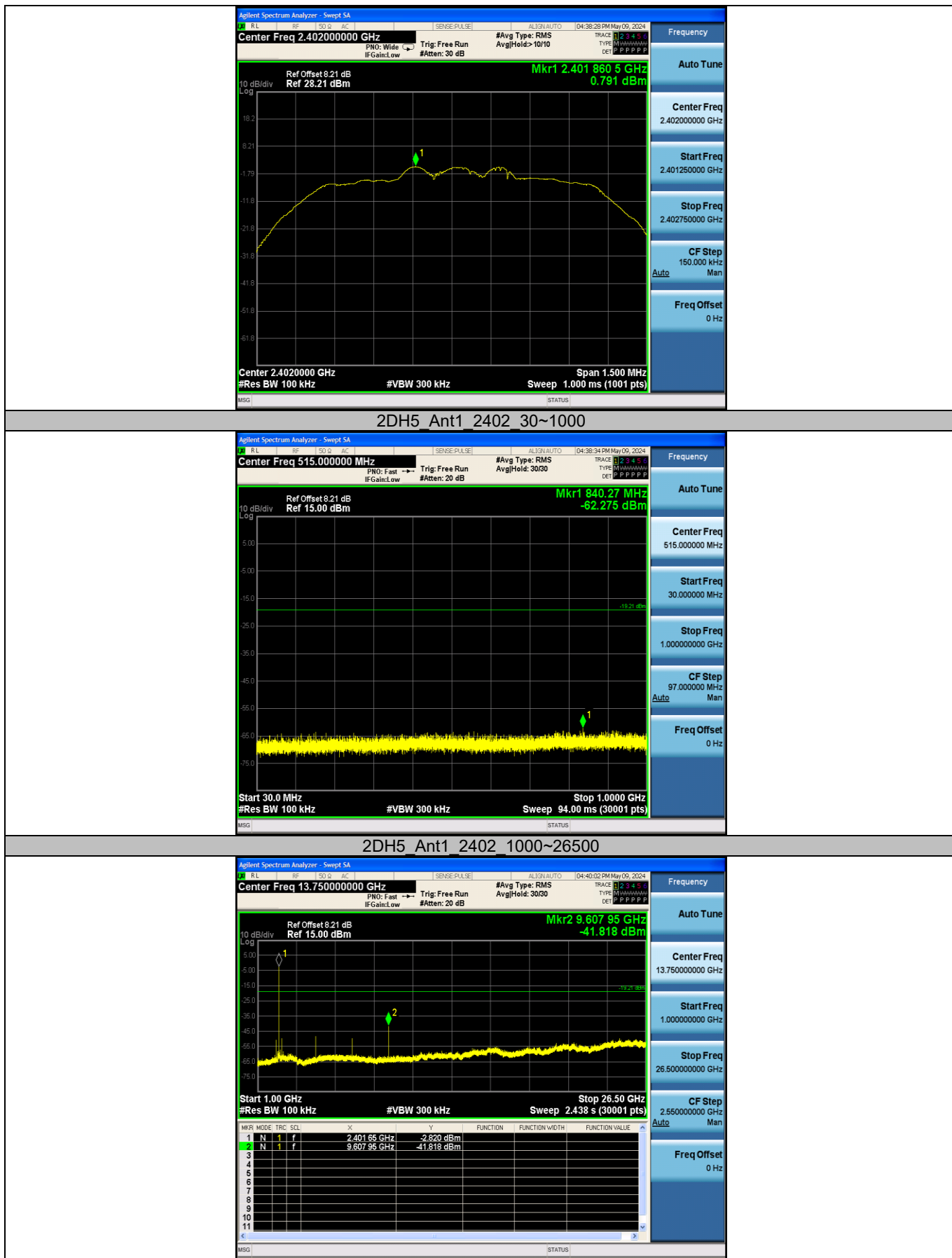
## Appendix G: Conducted Spurious Emission

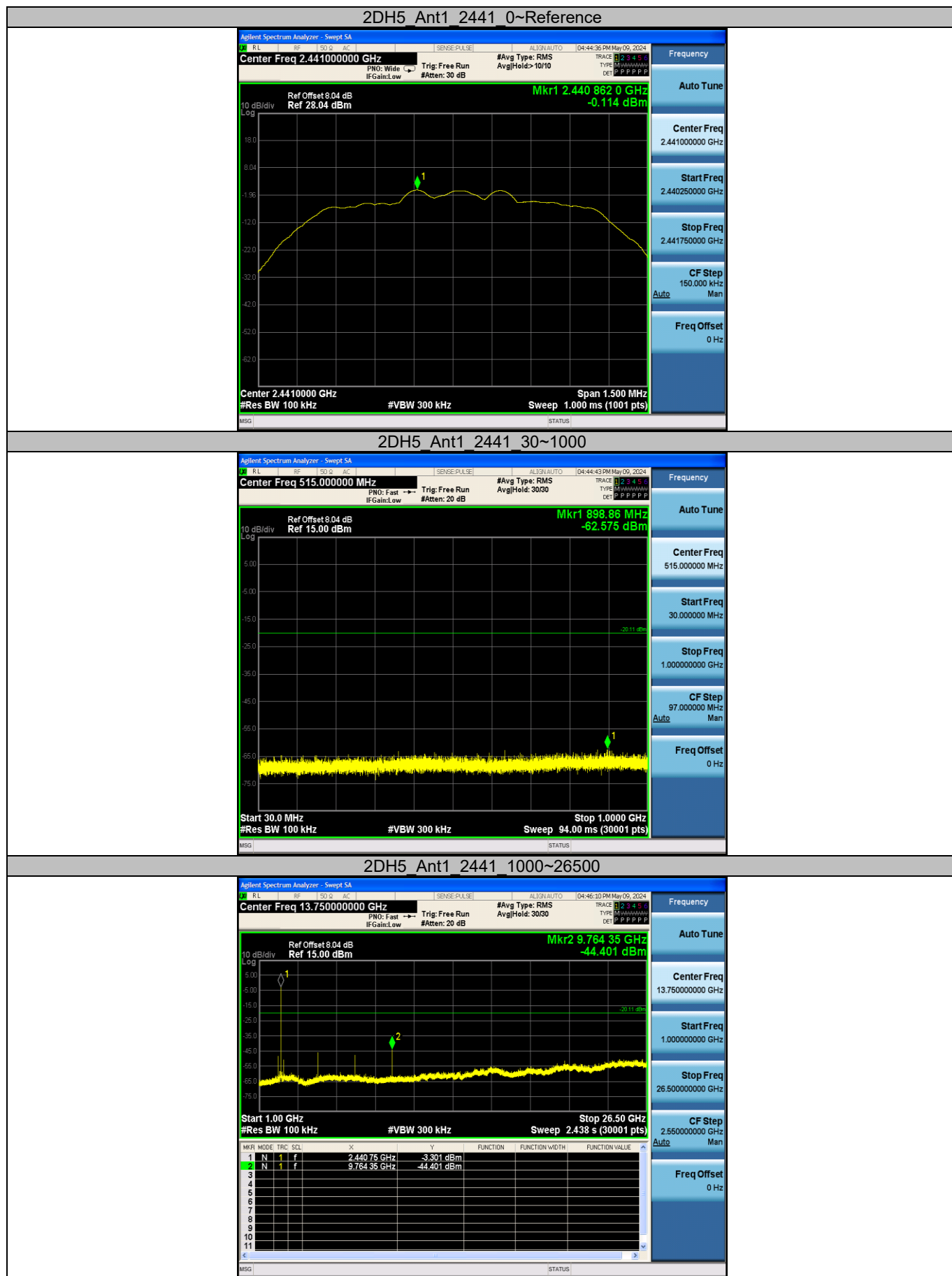
### Test Graphs

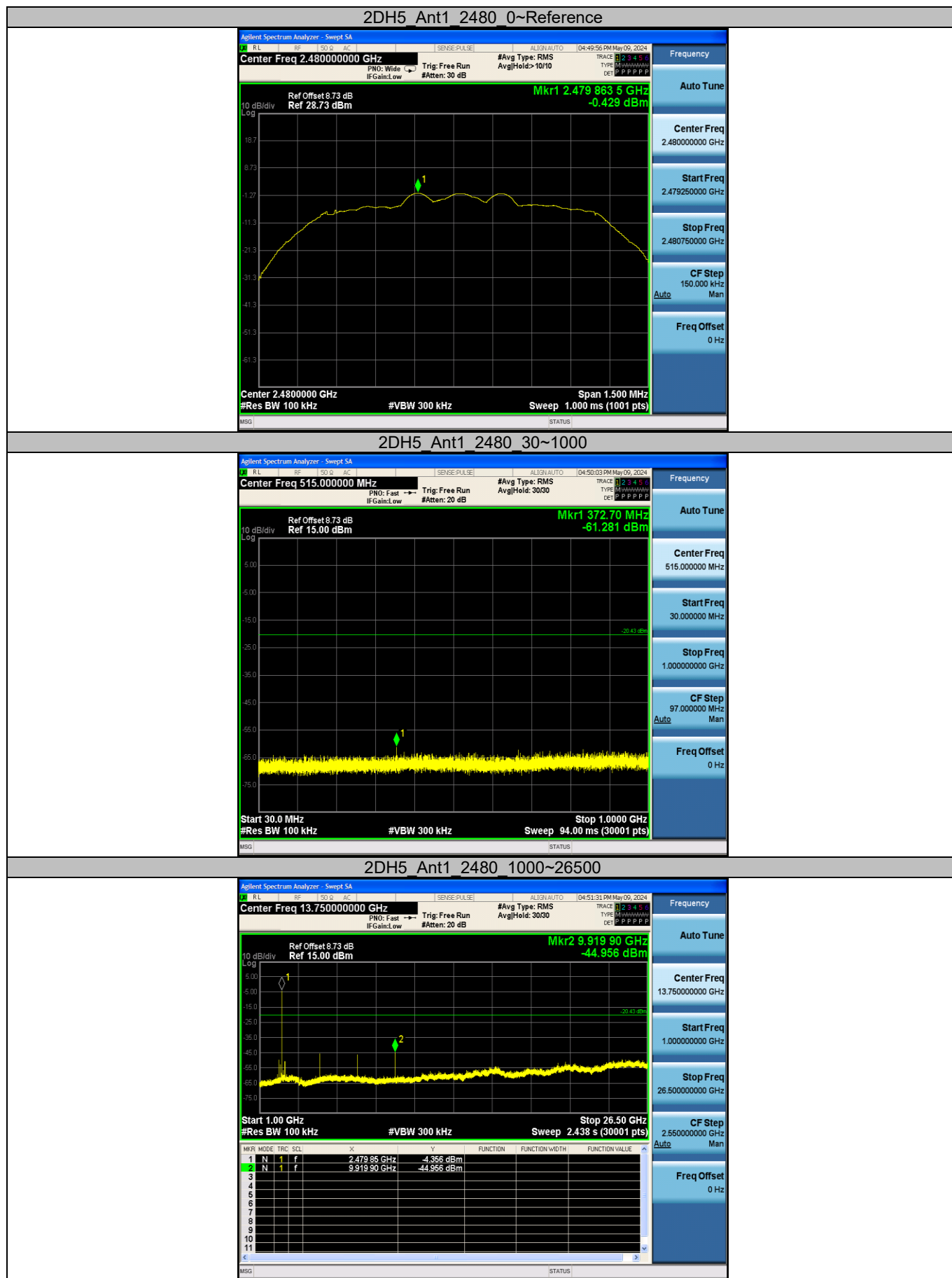












----End of Report----