

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

Product Name: BOLT

Trade Mark: 

Test Model: NB600BL

FCC ID: YMT-NB600

### Environmental Conditions

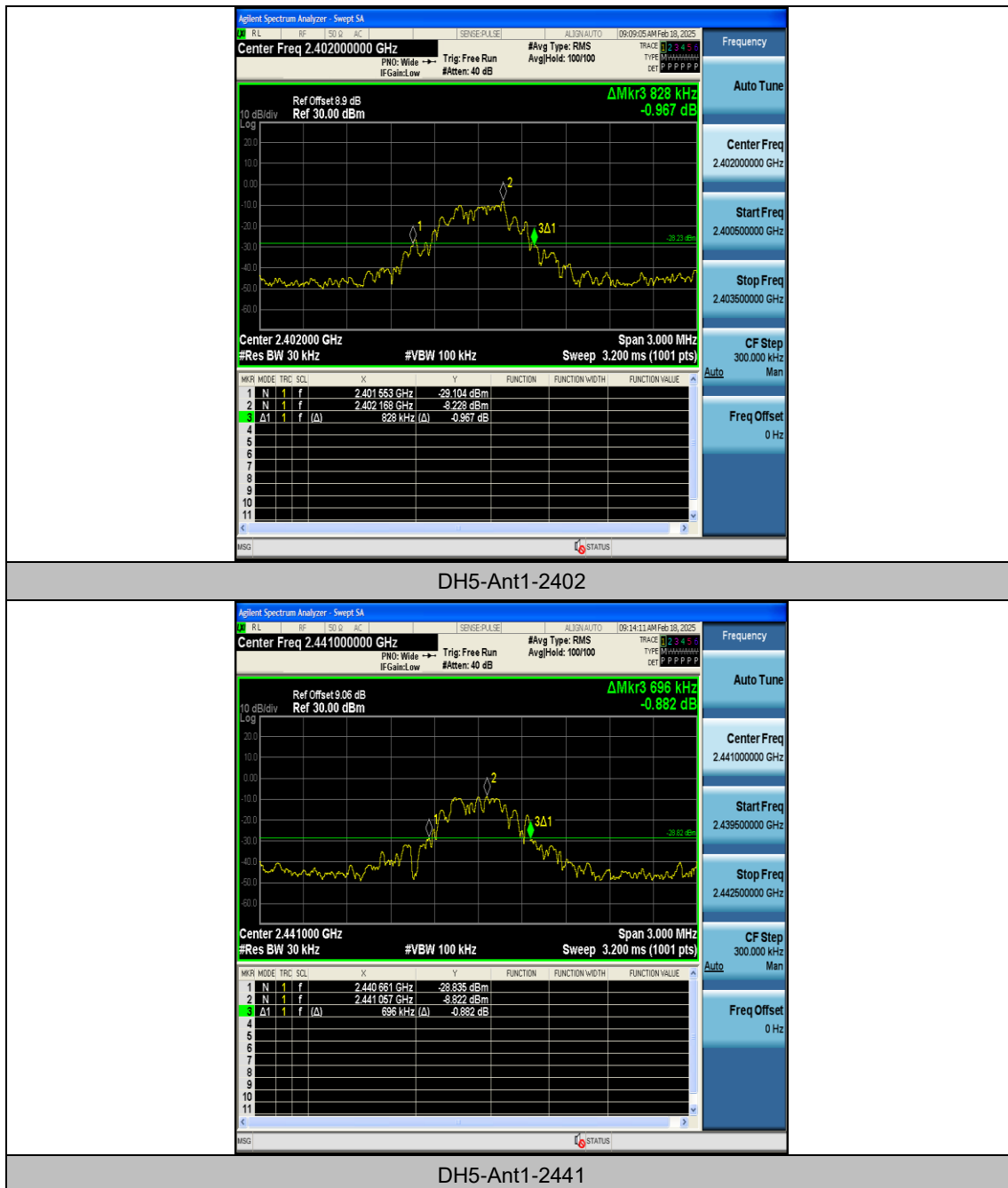
|                    |           |
|--------------------|-----------|
| Temperature:       | 23.5℃     |
| Relative Humidity: | 58%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Allen Lai |
| Supervised by:     | Hugo Chen |
| NOTE               | N/A       |

## Appendix A: 20dB Emission Bandwidth

### Test Result

| Test Mode | Antenna | Frequency [MHz] | 20db EBW [MHz] | FL [MHz] | FH [MHz] | Limit [MHz] | Verdict |
|-----------|---------|-----------------|----------------|----------|----------|-------------|---------|
| DH5       | Ant1    | 2402            | 0.828          | 2401.553 | 2402.381 | ---         | ---     |
| DH5       | Ant1    | 2441            | 0.696          | 2440.661 | 2441.357 | ---         | ---     |
| DH5       | Ant1    | 2480            | 0.762          | 2479.580 | 2480.342 | ---         | ---     |
| 2DH5      | Ant1    | 2402            | 1.302          | 2401.349 | 2402.651 | ---         | ---     |
| 2DH5      | Ant1    | 2441            | 1.299          | 2440.352 | 2441.651 | ---         | ---     |
| 2DH5      | Ant1    | 2480            | 1.293          | 2479.355 | 2480.648 | ---         | ---     |
| 3DH5      | Ant1    | 2402            | 1.152          | 2401.475 | 2402.627 | ---         | ---     |
| 3DH5      | Ant1    | 2441            | 1.065          | 2440.457 | 2441.522 | ---         | ---     |
| 3DH5      | Ant1    | 2480            | 1.074          | 2479.442 | 2480.516 | ---         | ---     |

## Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402



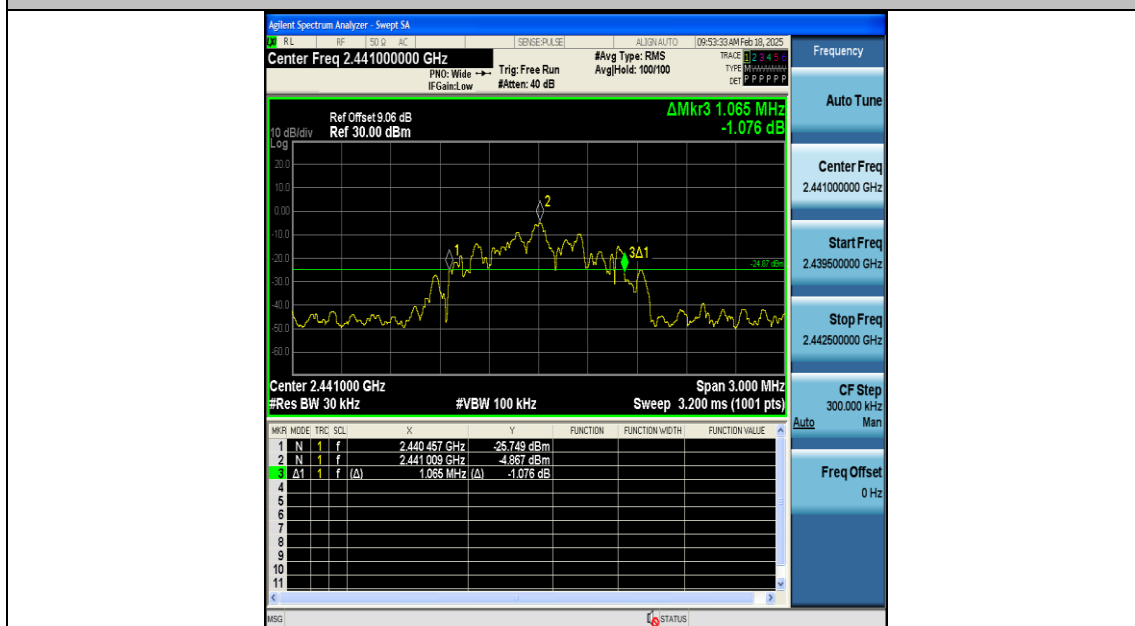
2DH5-Ant1-2441



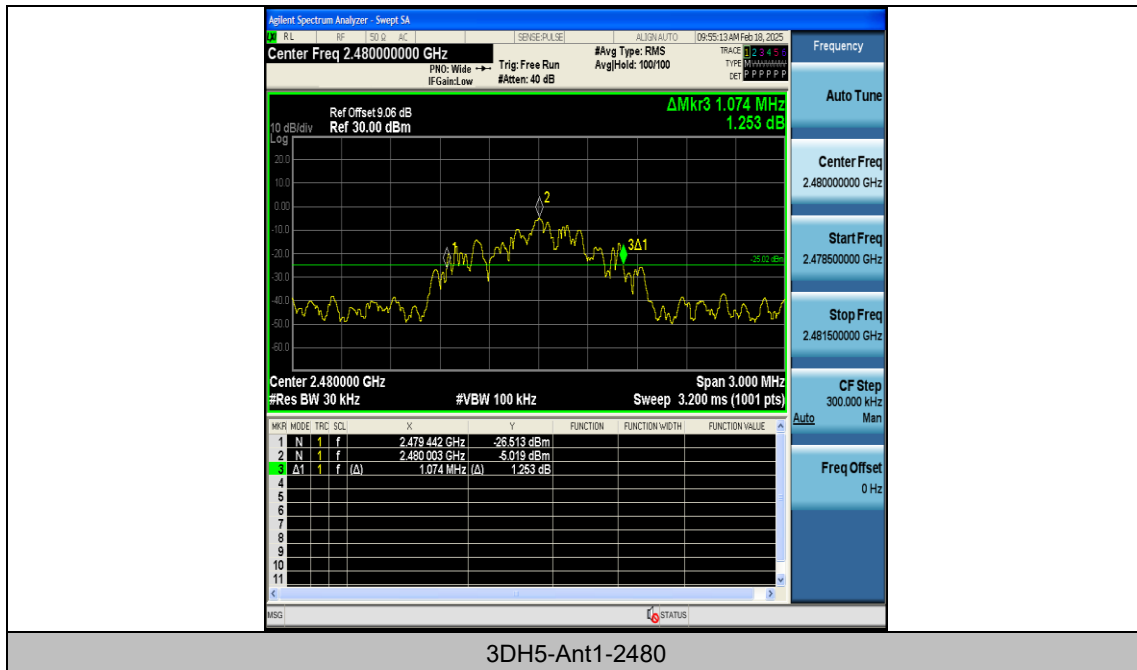
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441

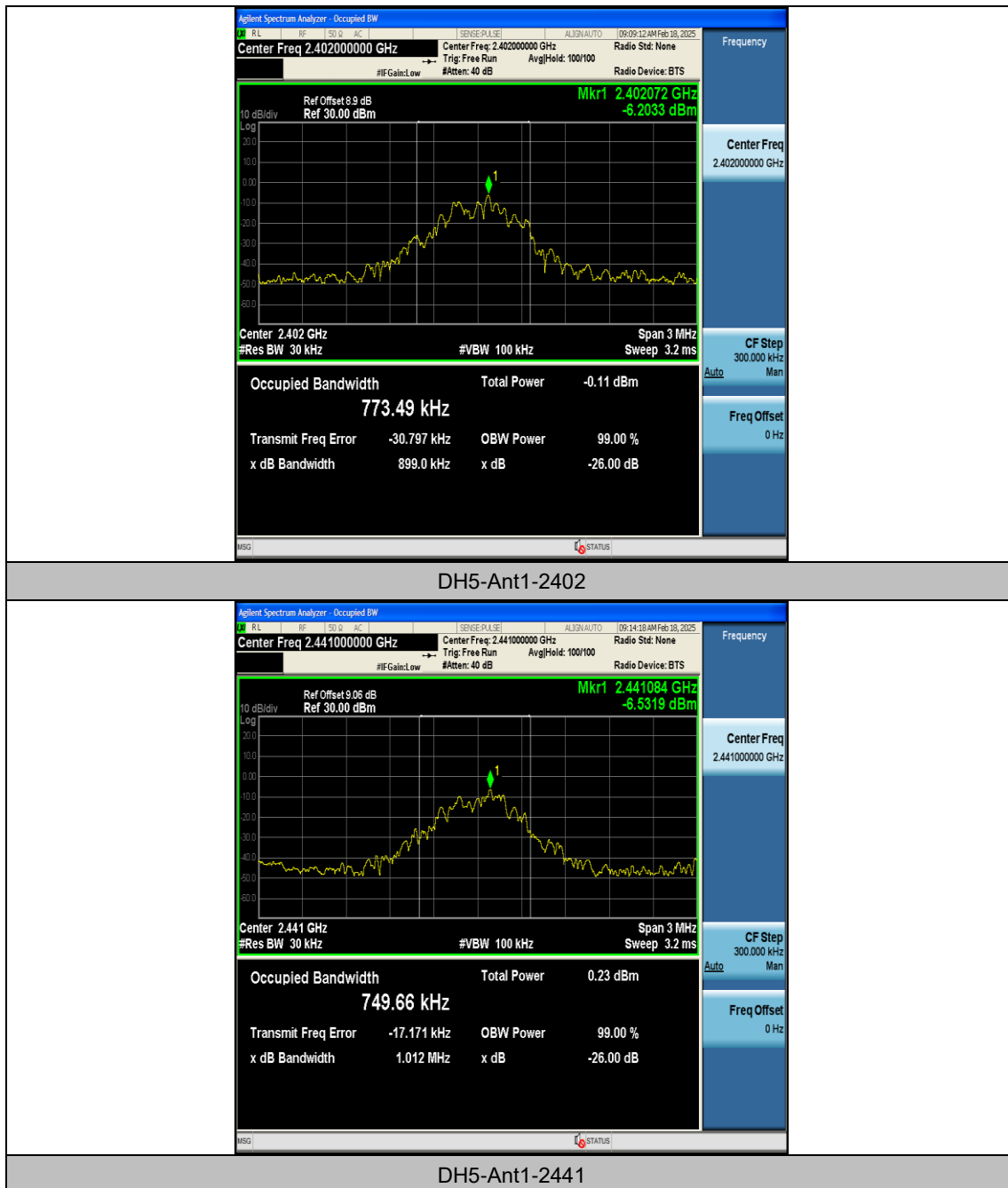


## Appendix B: Occupied Channel Bandwidth

### Test Result

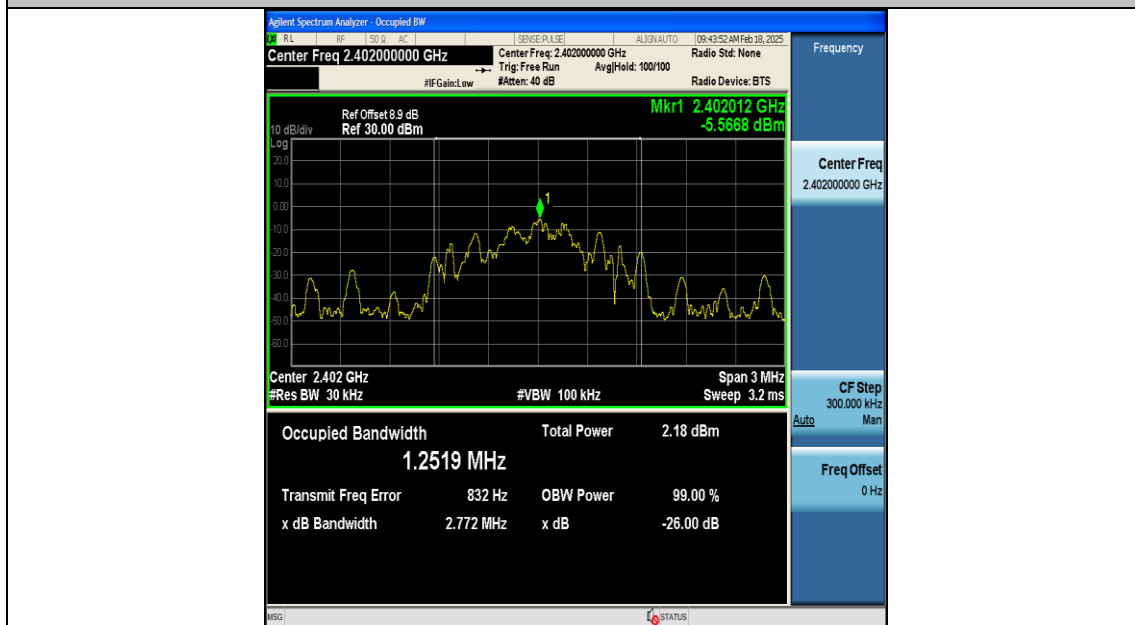
| Test Mode | Antenna | Frequency [MHz] | OCB [MHz] | FL [MHz]  | FH [MHz]  | Limit [MHz] | Verdict |
|-----------|---------|-----------------|-----------|-----------|-----------|-------------|---------|
| DH5       | Ant1    | 2402            | 0.77349   | 2401.5825 | 2402.3559 | ---         | ---     |
| DH5       | Ant1    | 2441            | 0.74966   | 2440.6080 | 2441.3577 | ---         | ---     |
| DH5       | Ant1    | 2480            | 0.67956   | 2479.6570 | 2480.3366 | ---         | ---     |
| 2DH5      | Ant1    | 2402            | 1.2519    | 2401.3749 | 2402.6268 | ---         | ---     |
| 2DH5      | Ant1    | 2441            | 1.2640    | 2440.3703 | 2441.6343 | ---         | ---     |
| 2DH5      | Ant1    | 2480            | 1.2627    | 2479.3681 | 2480.6308 | ---         | ---     |
| 3DH5      | Ant1    | 2402            | 1.0657    | 2401.4522 | 2402.5179 | ---         | ---     |
| 3DH5      | Ant1    | 2441            | 1.0630    | 2440.4588 | 2441.5218 | ---         | ---     |
| 3DH5      | Ant1    | 2480            | 1.0767    | 2479.4572 | 2480.5339 | ---         | ---     |

## Test Graphs

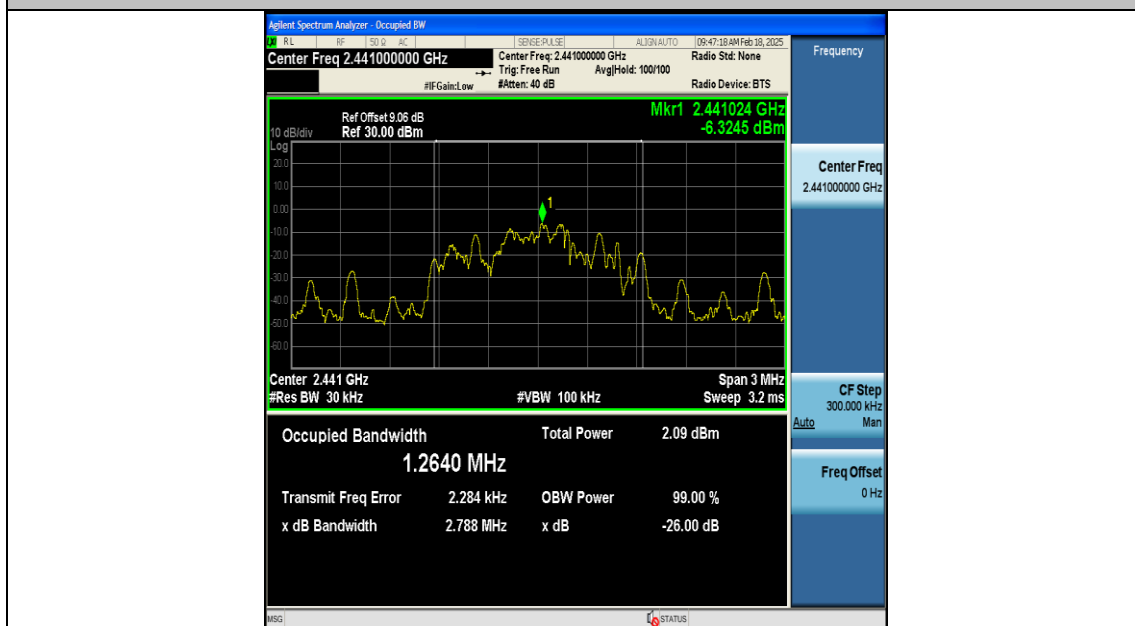




DH5-Ant1-2480



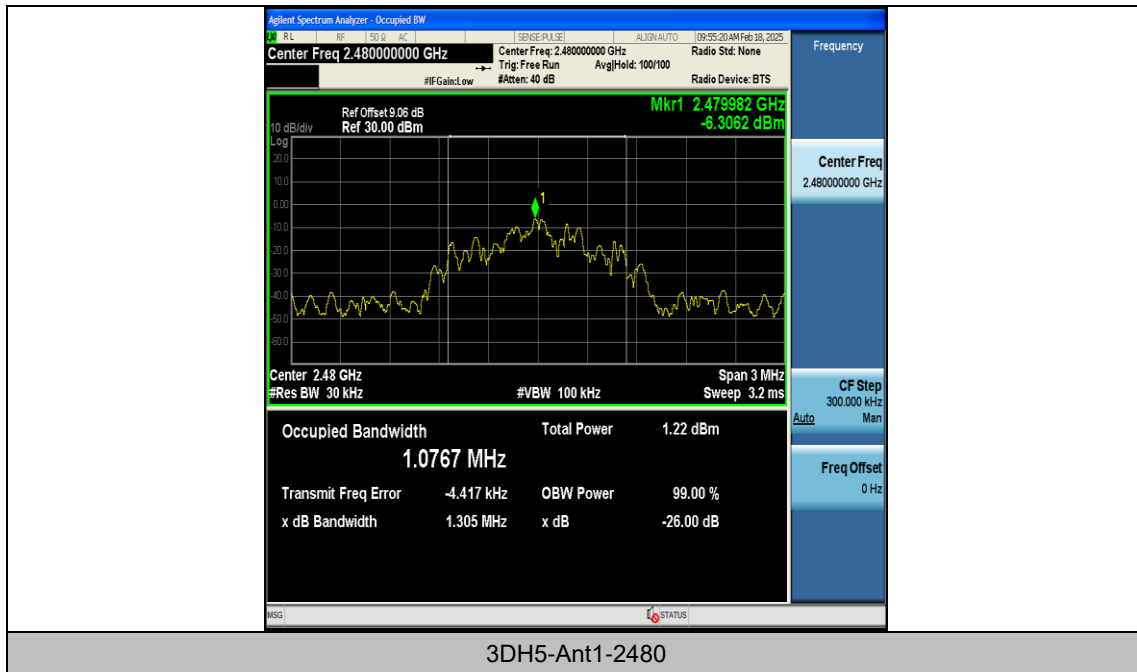
2DH5-Ant1-2402



2DH5-Ant1-2441





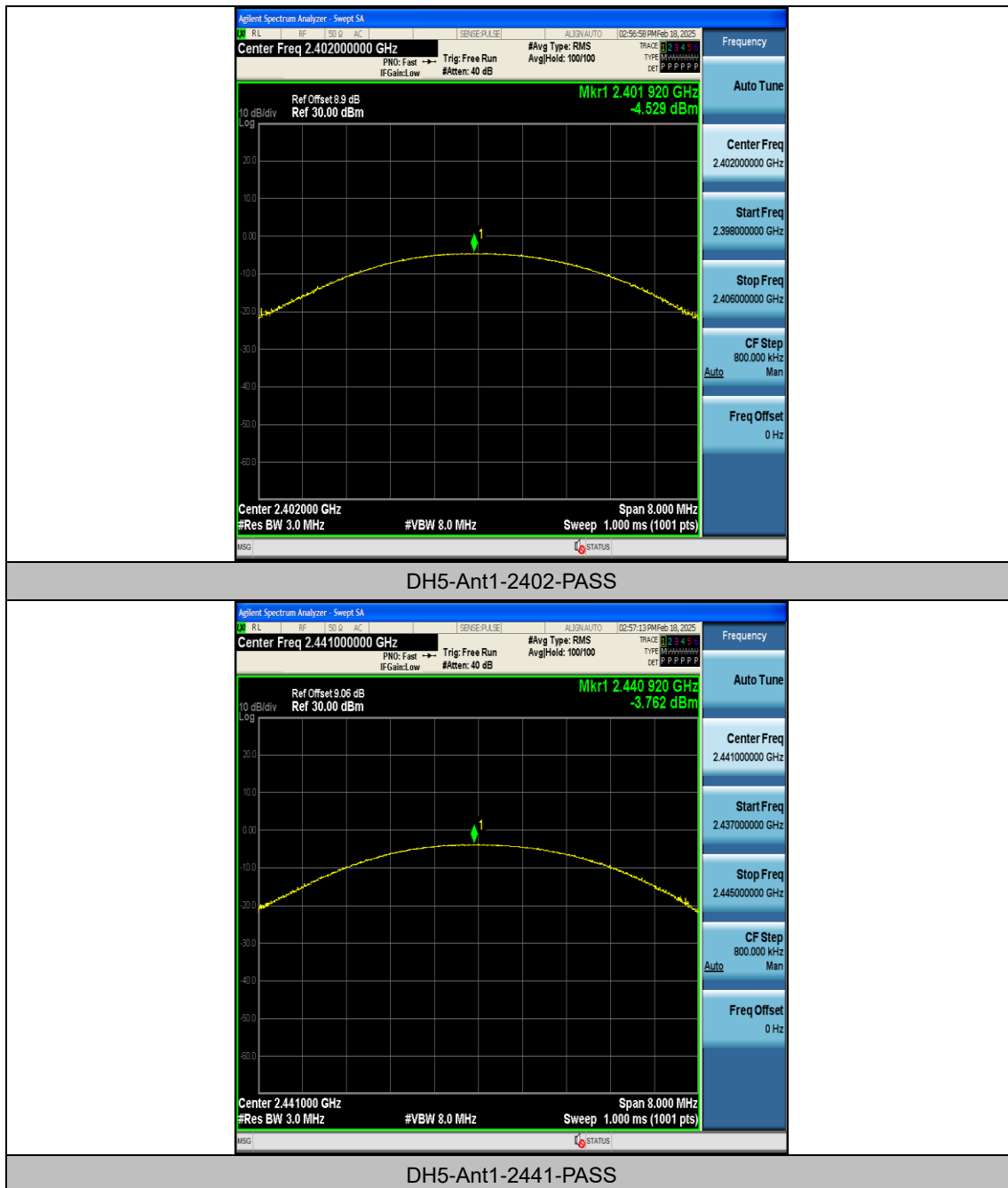


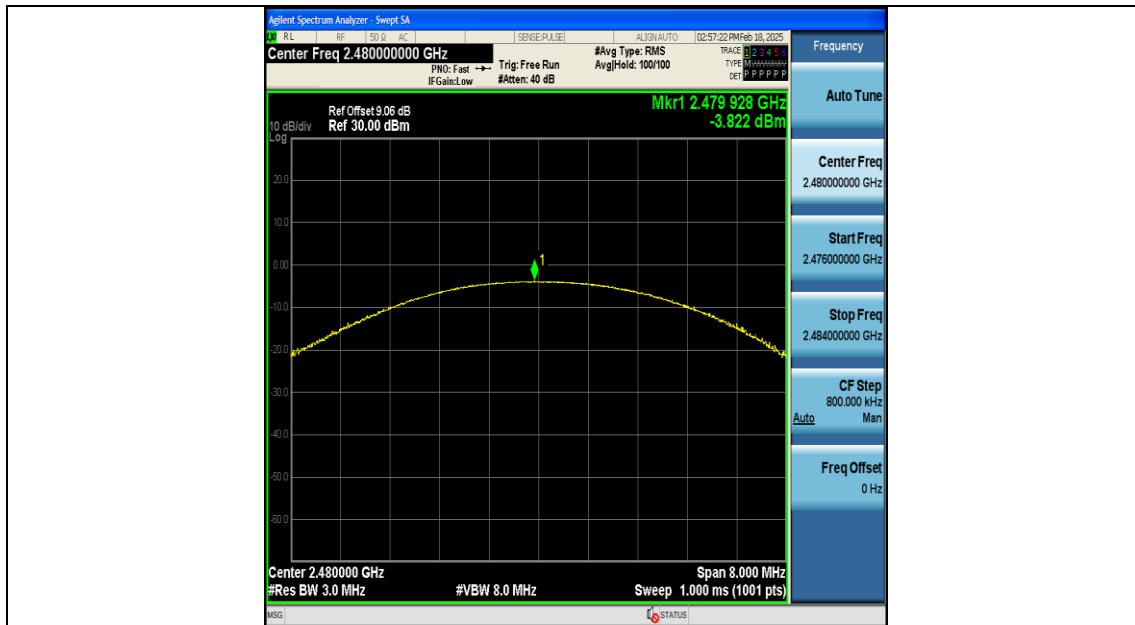
## Appendix C: Maximum peak conducted output power

### Test Result

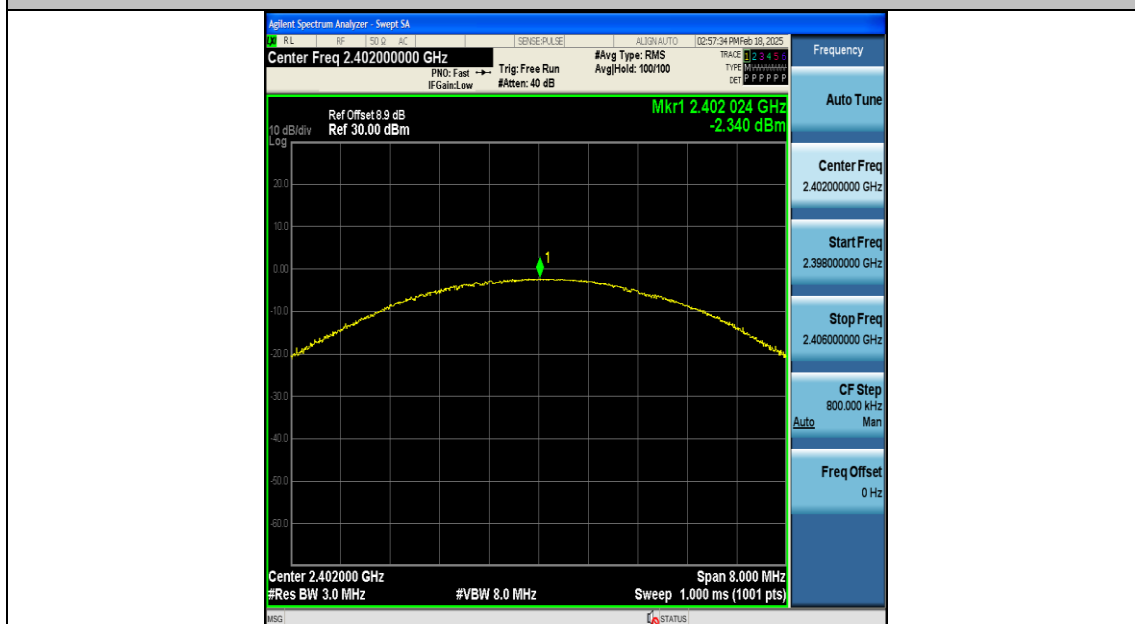
| Test Mode | Antenna | Frequency [MHz] | Conducted Peak Power [dBm] | Conducted Limit [dBm] | Verdict |
|-----------|---------|-----------------|----------------------------|-----------------------|---------|
| DH5       | Ant1    | 2402            | -4.53                      | ≤30                   | PASS    |
| DH5       | Ant1    | 2441            | -3.76                      | ≤30                   | PASS    |
| DH5       | Ant1    | 2480            | -3.82                      | ≤30                   | PASS    |
| 2DH5      | Ant1    | 2402            | -2.34                      | ≤20.97                | PASS    |
| 2DH5      | Ant1    | 2441            | -1.52                      | ≤20.97                | PASS    |
| 2DH5      | Ant1    | 2480            | -1.57                      | ≤20.97                | PASS    |
| 3DH5      | Ant1    | 2402            | -2.21                      | ≤20.97                | PASS    |
| 3DH5      | Ant1    | 2441            | -1.47                      | ≤20.97                | PASS    |
| 3DH5      | Ant1    | 2480            | -1.56                      | ≤20.97                | PASS    |

## Test Graphs

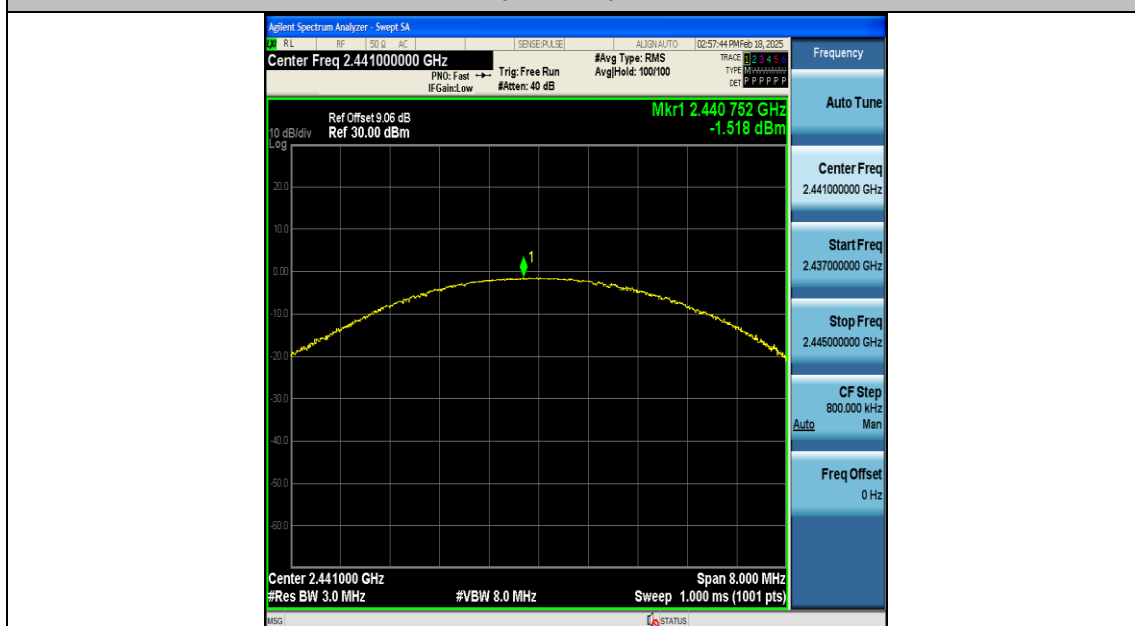




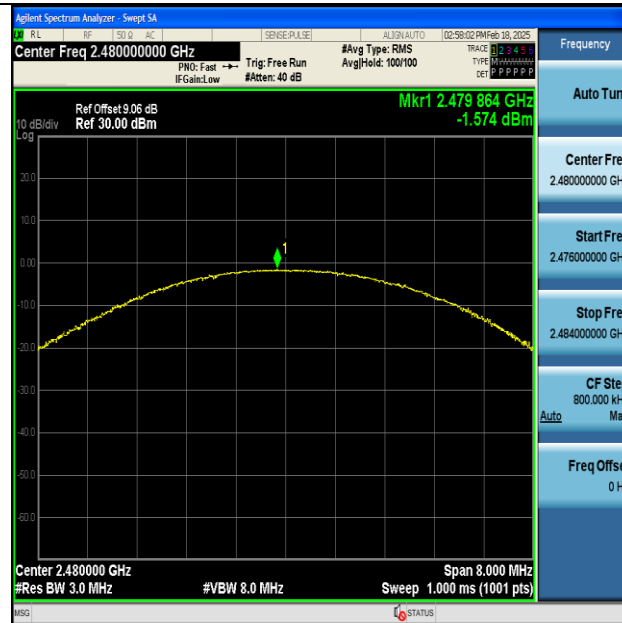
DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS



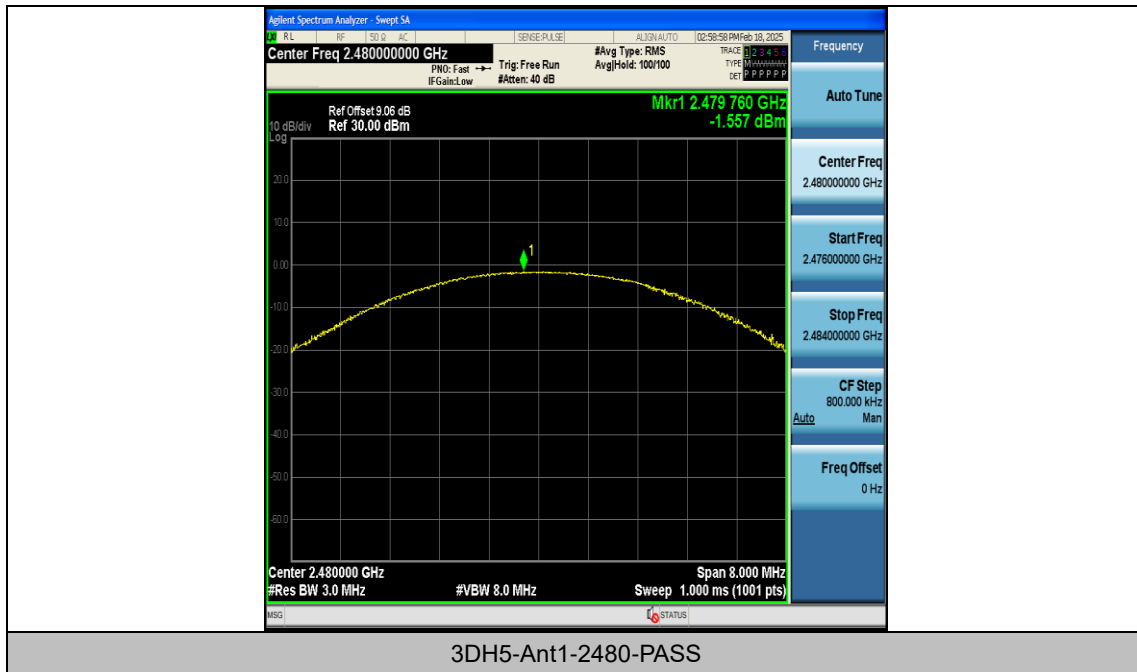
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



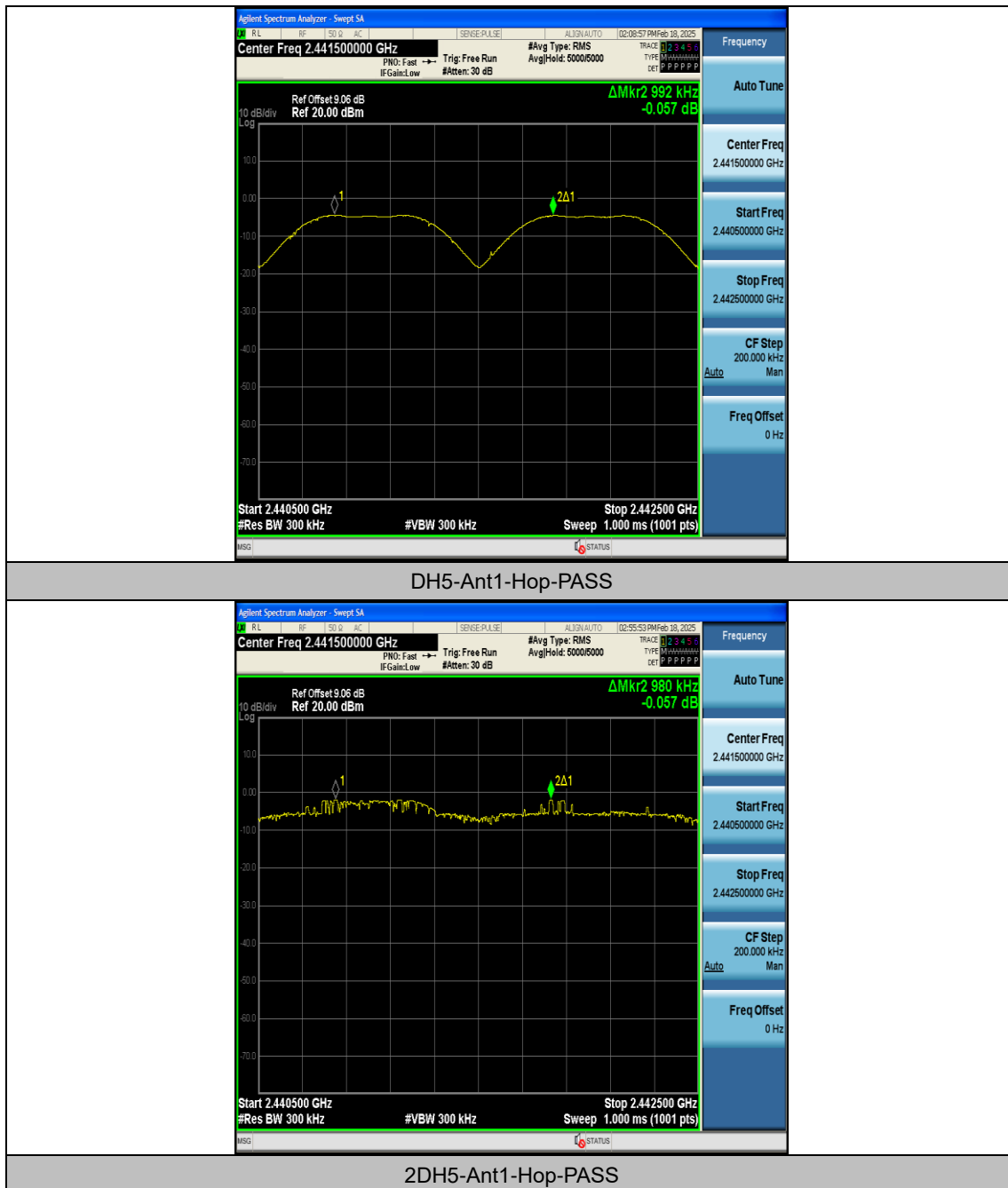
## Appendix D: Carrier frequency separation

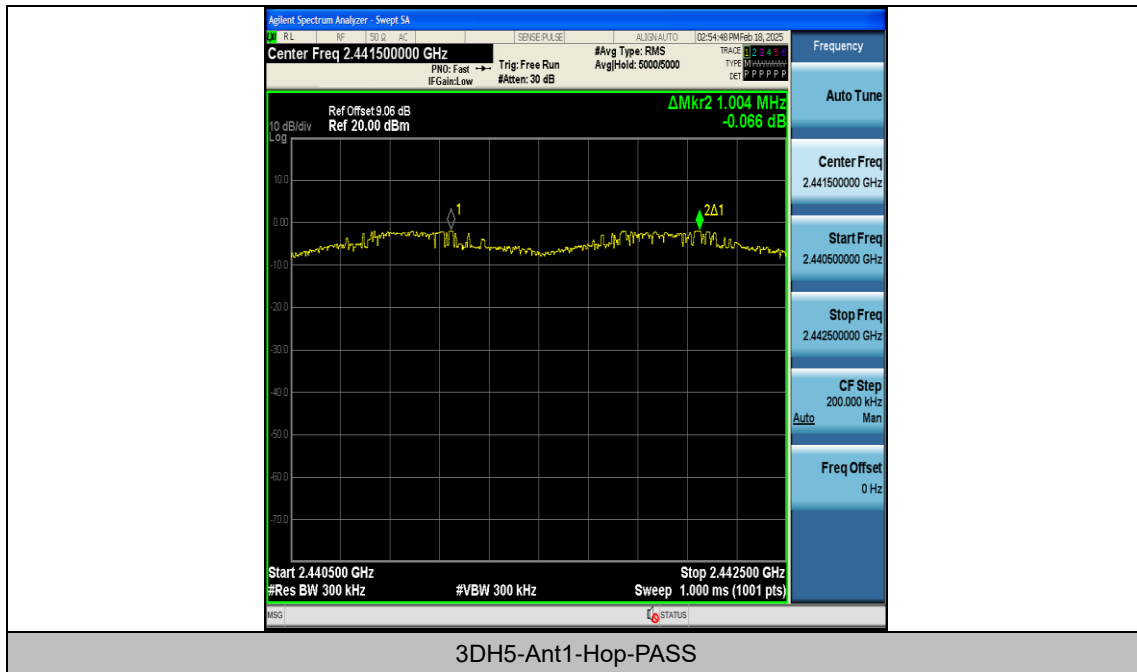
### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | Result<br>[MHz] | Limit<br>[MHz] | Verdict |
|-----------|---------|--------------------|-----------------|----------------|---------|
| DH5       | Ant1    | Hop                | 0.992           | $\geq 0.828$   | PASS    |
| 2DH5      | Ant1    | Hop                | 0.98            | $\geq 0.868$   | PASS    |
| 3DH5      | Ant1    | Hop                | 1.004           | $\geq 0.768$   | PASS    |



## Test Graphs



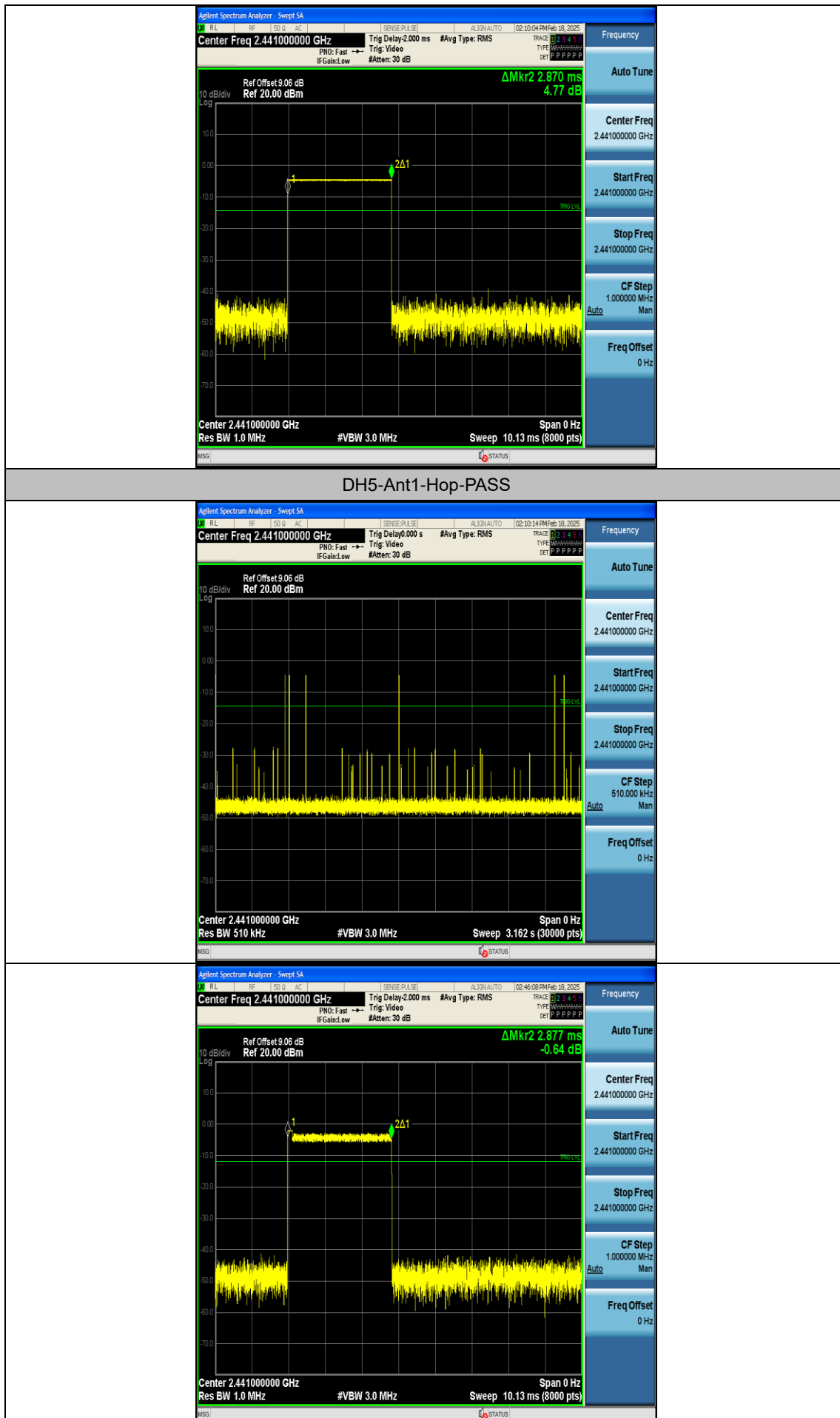


## Appendix E: Time of occupancy

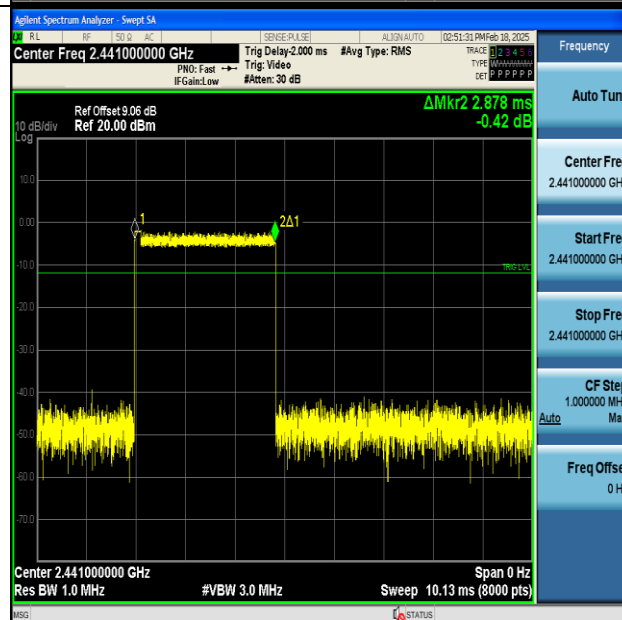
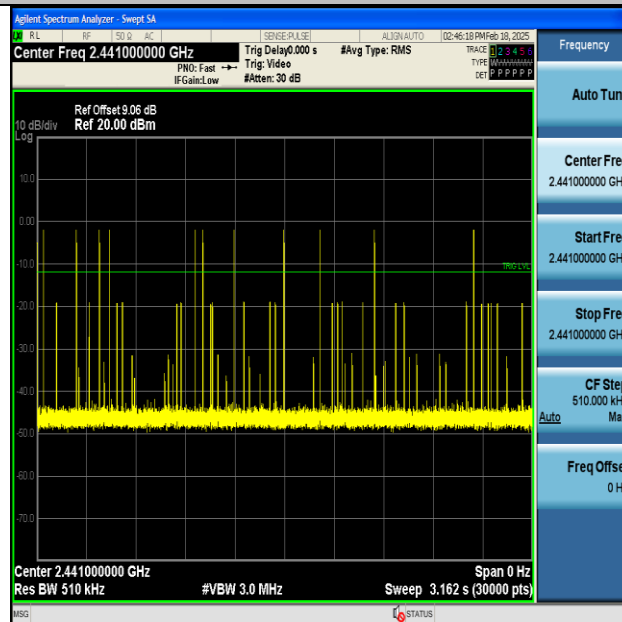
### Test Result

| Test Mode | Antenna | Frequency [MHz] | Burst Width [ms] | TotalHops [Num] | Result [s] | Limit [s] | Verdict |
|-----------|---------|-----------------|------------------|-----------------|------------|-----------|---------|
| DH5       | Ant1    | Hop             | 2.870            | 70              | 0.201      | ≤0.4      | PASS    |
| 2DH5      | Ant1    | Hop             | 2.877            | 120             | 0.345      | ≤0.4      | PASS    |
| 3DH5      | Ant1    | Hop             | 2.878            | 120             | 0.345      | ≤0.4      | PASS    |

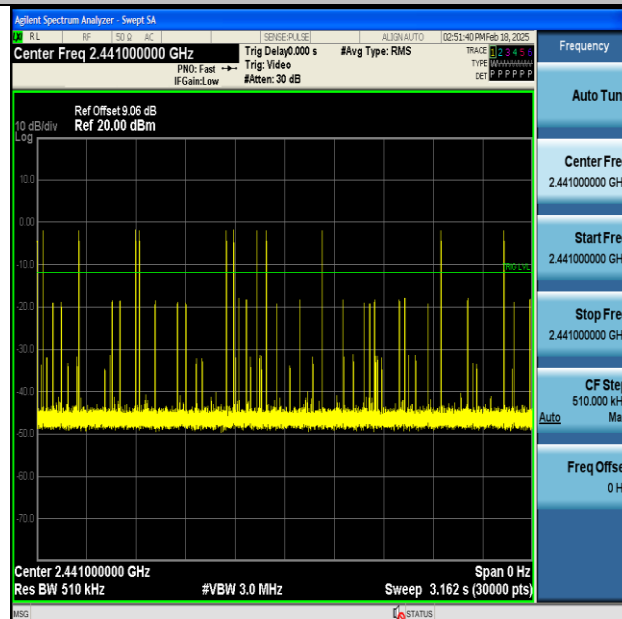
## Test Graphs



## 2DH5-Ant1-Hop-PASS



## 3DH5-Ant1-Hop-PASS

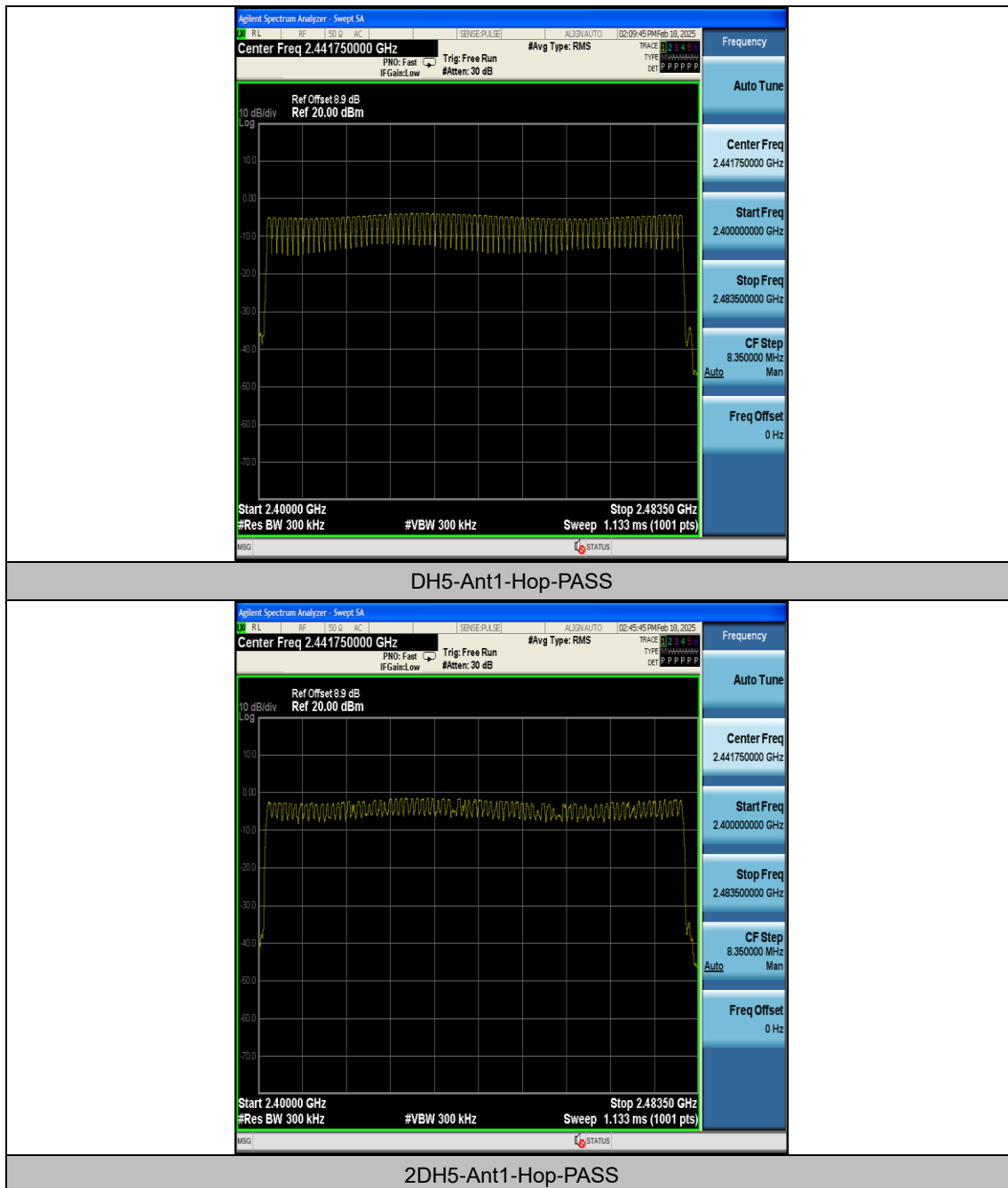


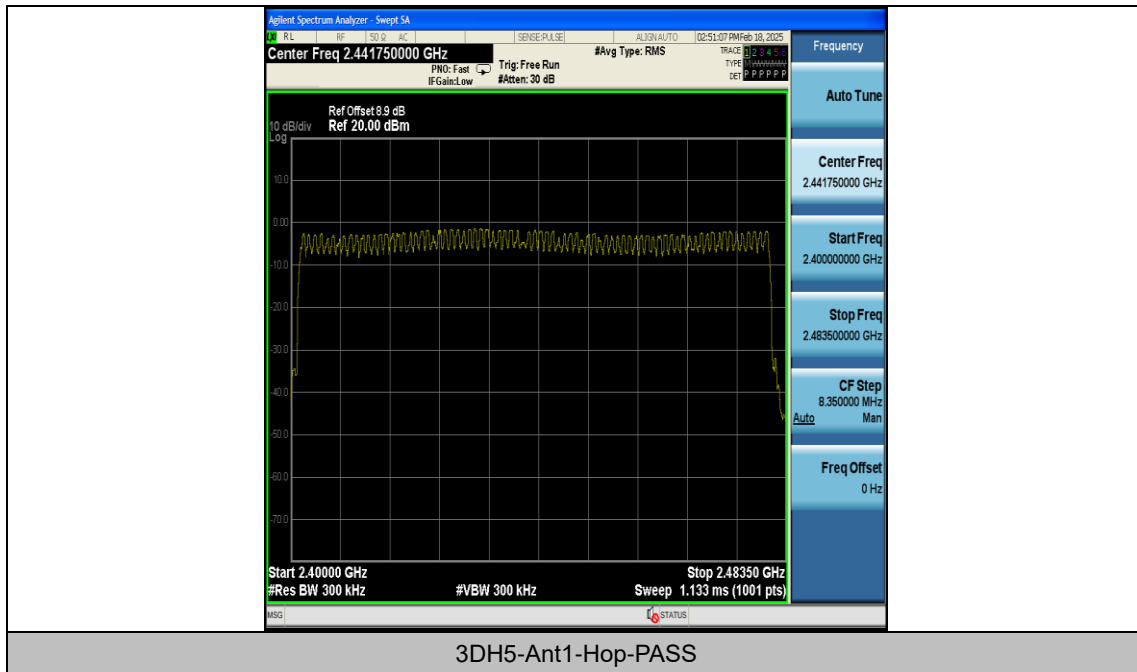
## Appendix F: Number of hopping channels

### 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    |
| 3DH5      | Ant1    | Hop                | 79              | ≥15            | PASS    |

## Test Graphs





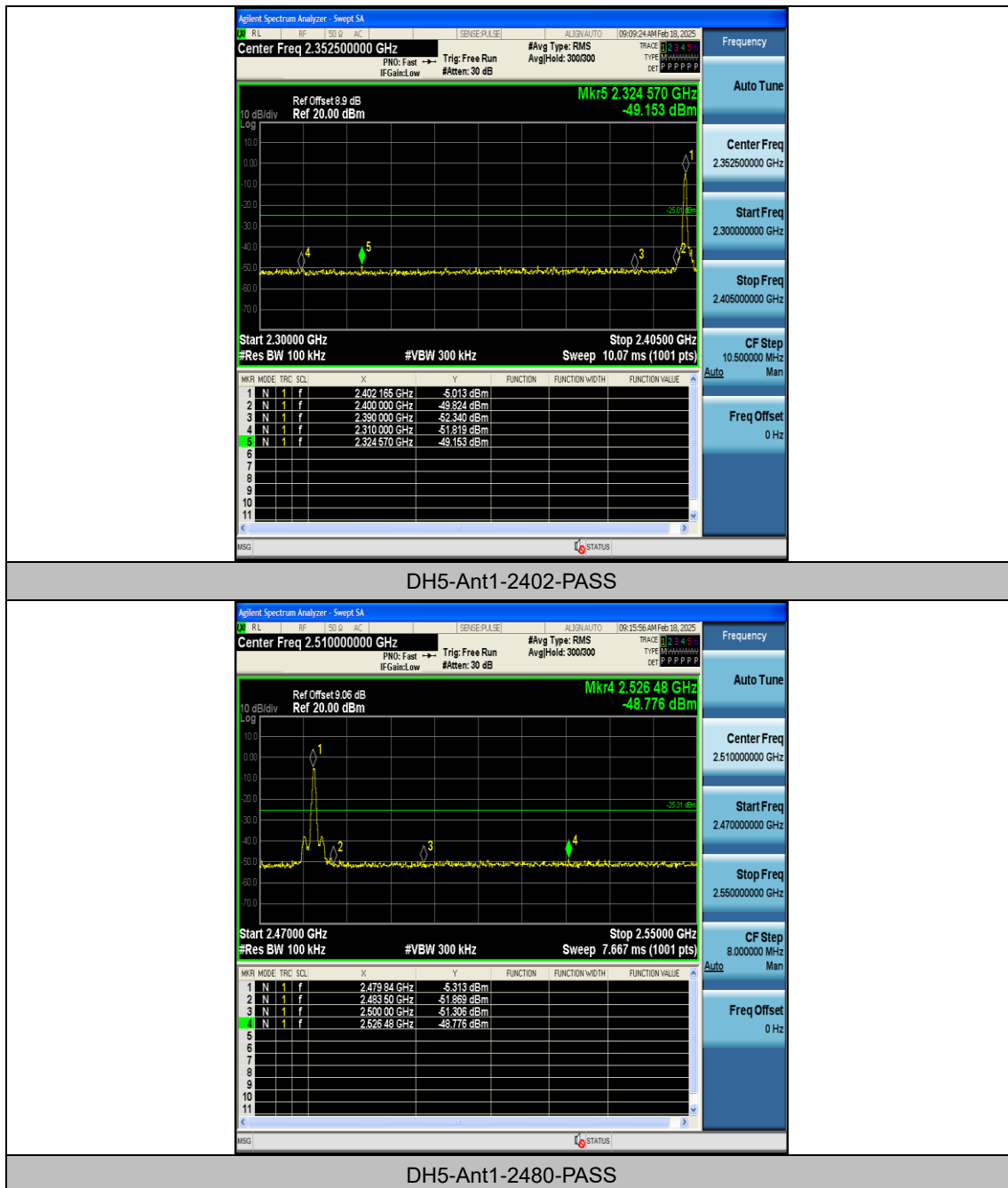


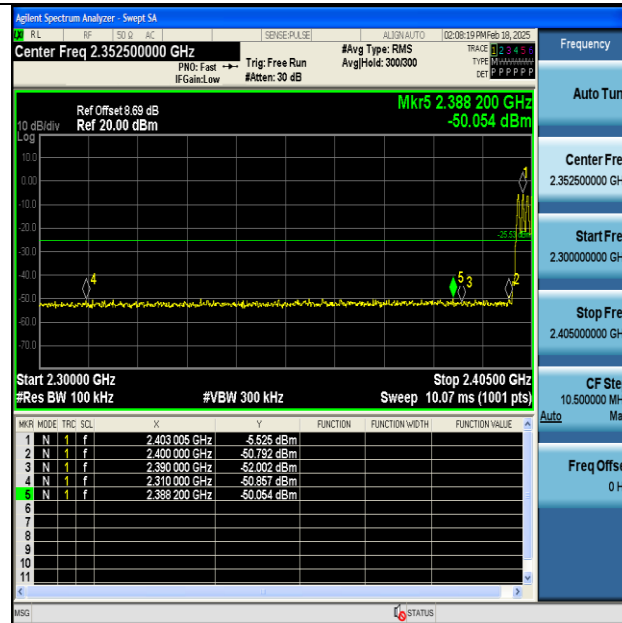
## Appendix G: Band edge measurements

### Test Result

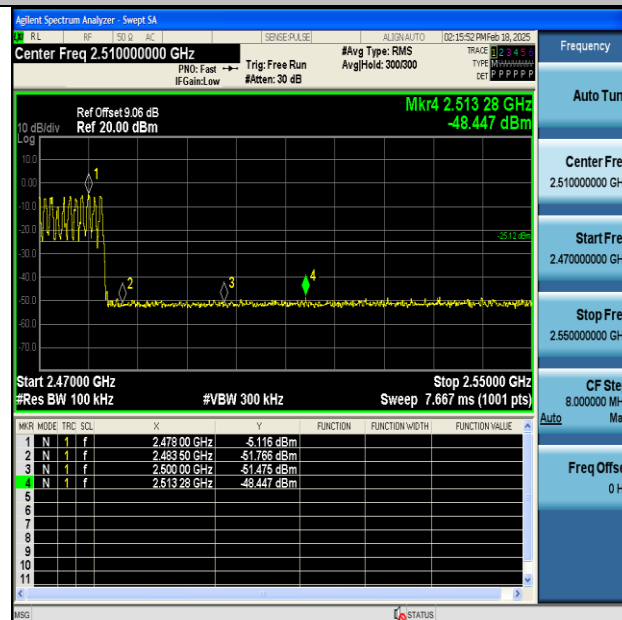
| Test Mode | Antenna | Ch.Name | Frequency [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|-----------|---------|---------|-----------------|----------------|--------------|---------------|---------|
| DH5       | Ant1    | Low     | 2402            | -5.01          | -49.15       | $\leq -25.01$ | PASS    |
| DH5       | Ant1    | High    | 2480            | -5.31          | -48.78       | $\leq -25.31$ | PASS    |
| DH5       | Ant1    | Low     | Hop_2402        | -5.53          | -50.05       | $\leq -25.53$ | PASS    |
| DH5       | Ant1    | High    | Hop_2480        | -5.12          | -48.45       | $\leq -25.12$ | PASS    |
| 2DH5      | Ant1    | Low     | 2402            | -2.52          | -43.25       | $\leq -22.52$ | PASS    |
| 2DH5      | Ant1    | High    | 2480            | -2.33          | -48.72       | $\leq -22.33$ | PASS    |
| 2DH5      | Ant1    | Low     | Hop_2402        | -8.60          | -49.37       | $\leq -28.6$  | PASS    |
| 2DH5      | Ant1    | High    | Hop_2480        | -4.01          | -48.13       | $\leq -24.01$ | PASS    |
| 3DH5      | Ant1    | Low     | 2402            | -3.65          | -47.12       | $\leq -23.65$ | PASS    |
| 3DH5      | Ant1    | High    | 2480            | -2.36          | -48.88       | $\leq -22.36$ | PASS    |
| 3DH5      | Ant1    | Low     | Hop_2402        | -7.90          | -48.08       | $\leq -27.9$  | PASS    |
| 3DH5      | Ant1    | High    | Hop_2480        | -3.55          | -48.18       | $\leq -23.55$ | PASS    |

## Test Graphs

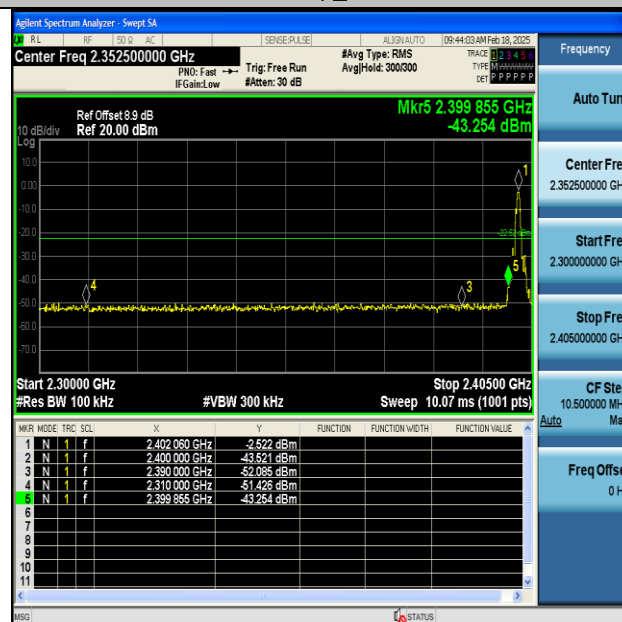




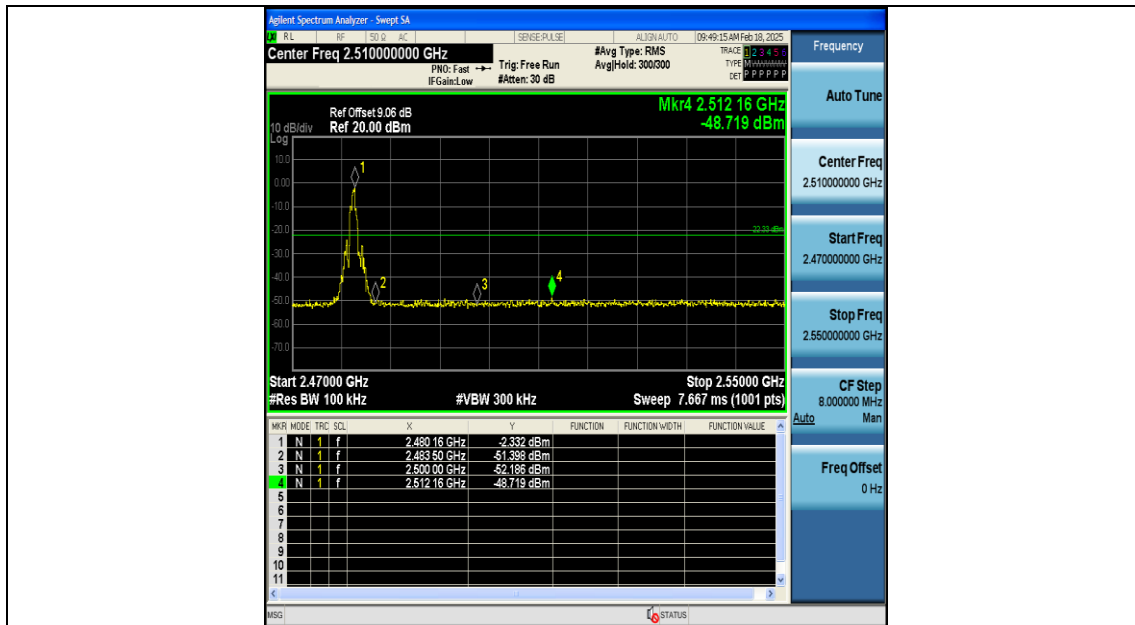
DH5-Ant1-Hop\_2402-PASS



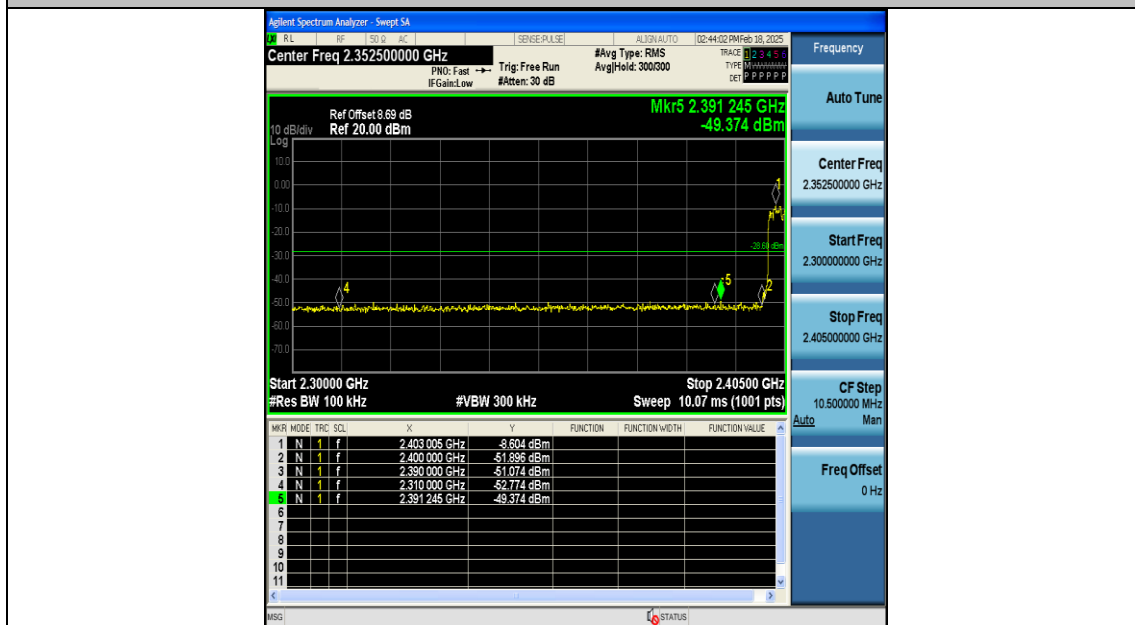
DH5-Ant1-Hop\_2480-PASS



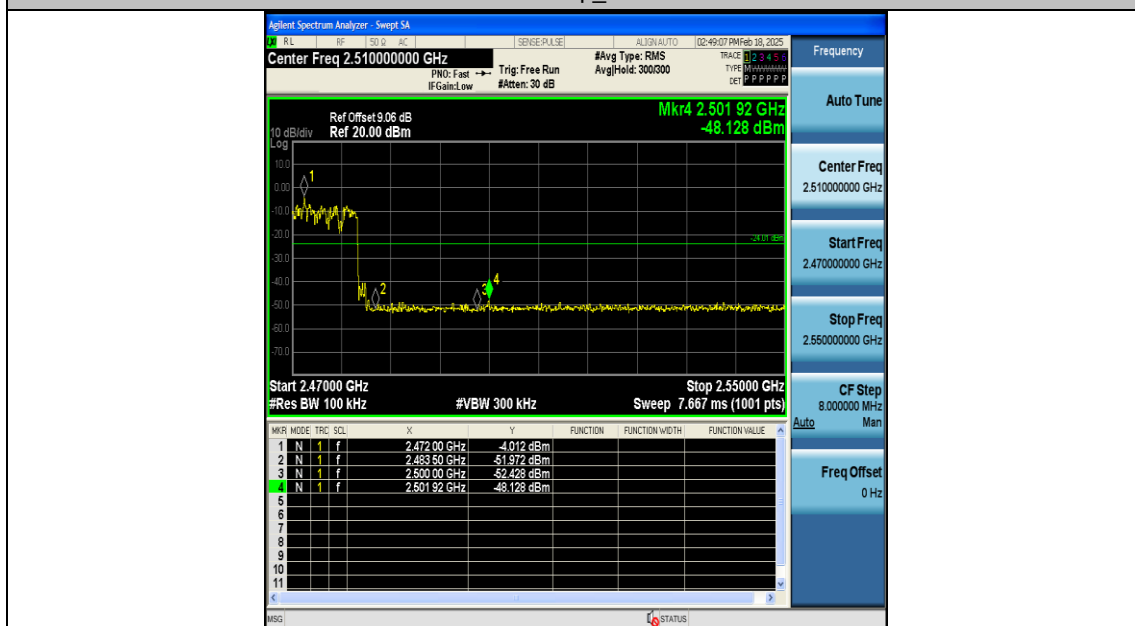
2DH5-Ant1-2402-PASS



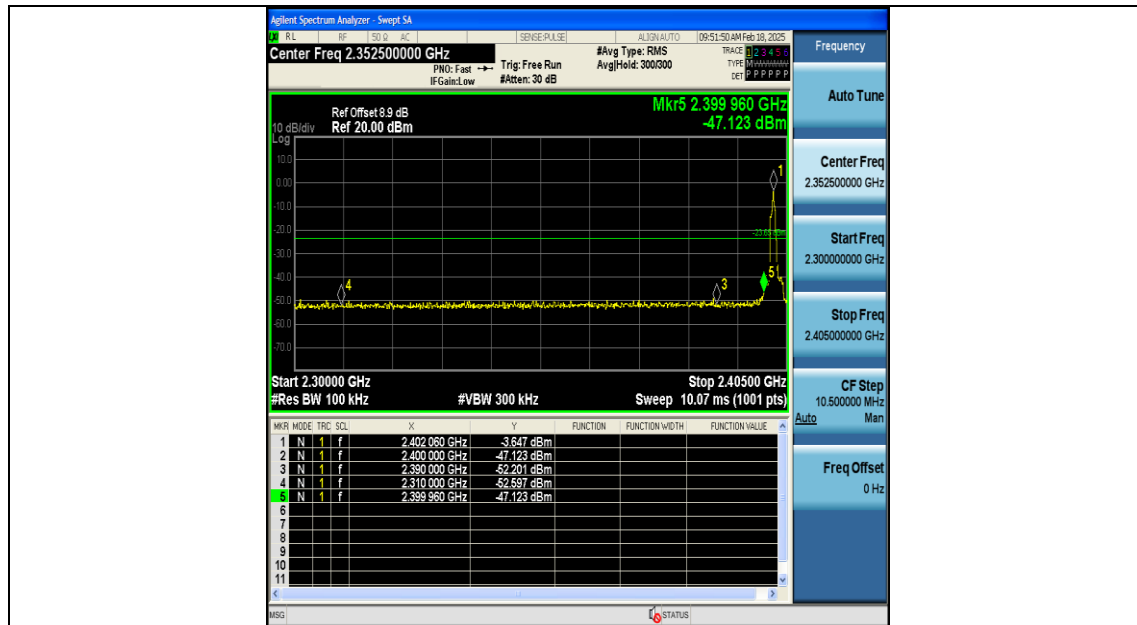
2DH5-Ant1-2480-PASS



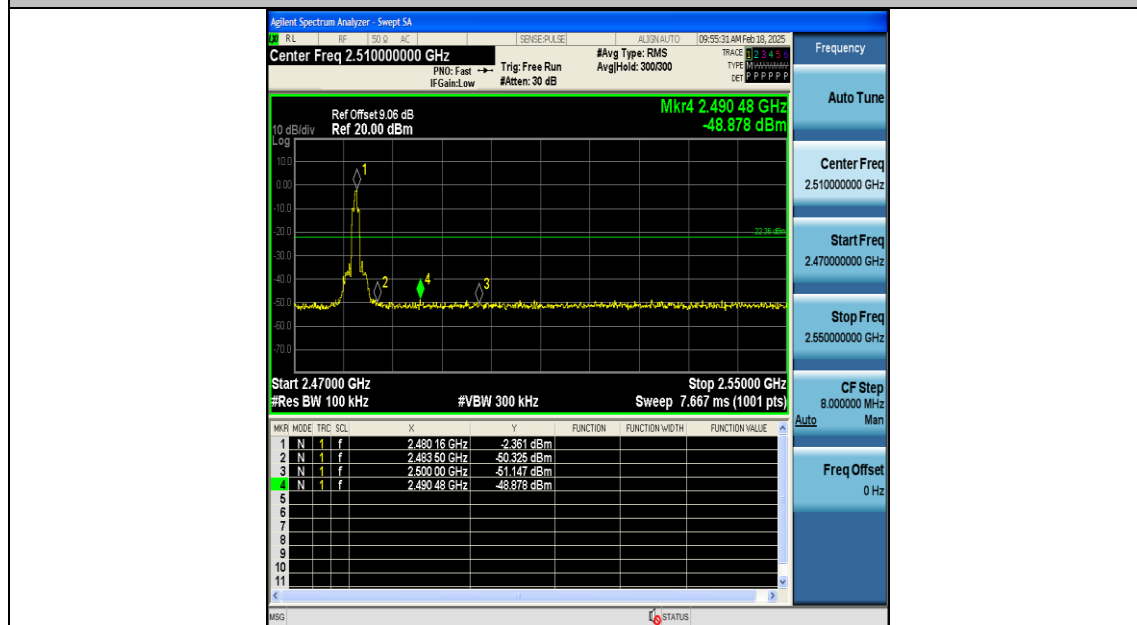
2DH5-Ant1-Hop\_2402-PASS



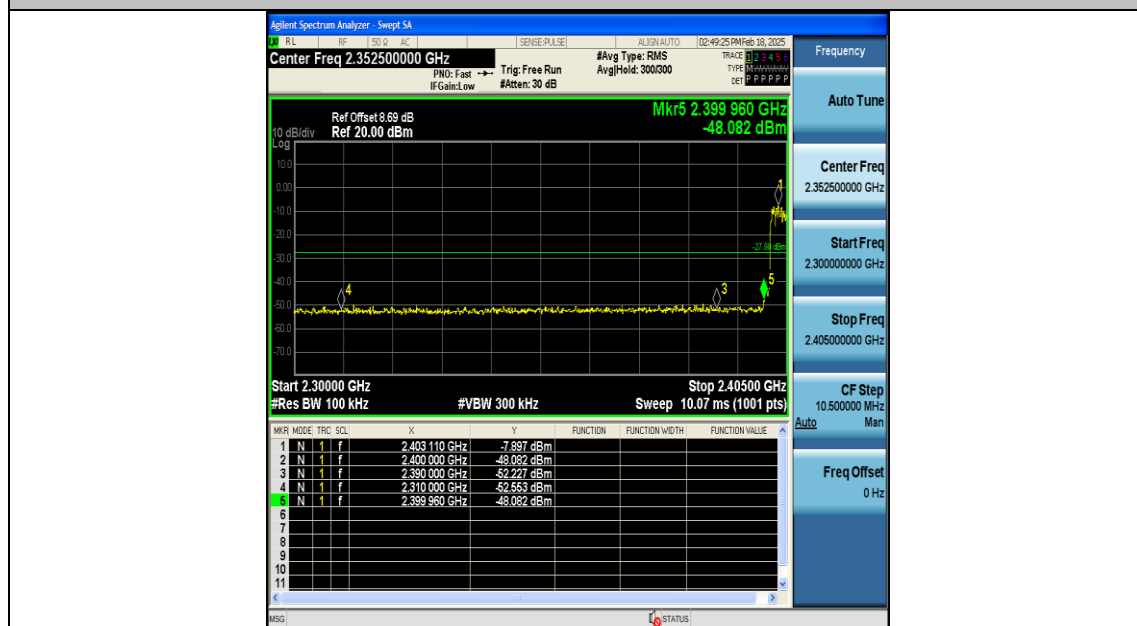
2DH5-Ant1-Hop\_2480-PASS



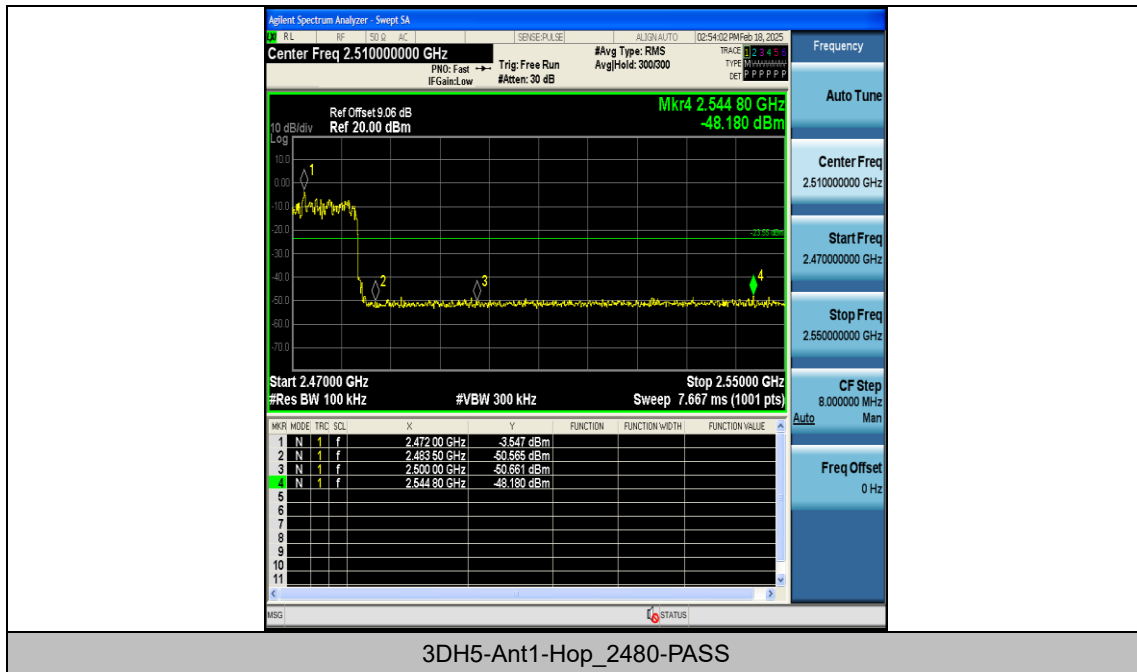
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop\_2402-PASS

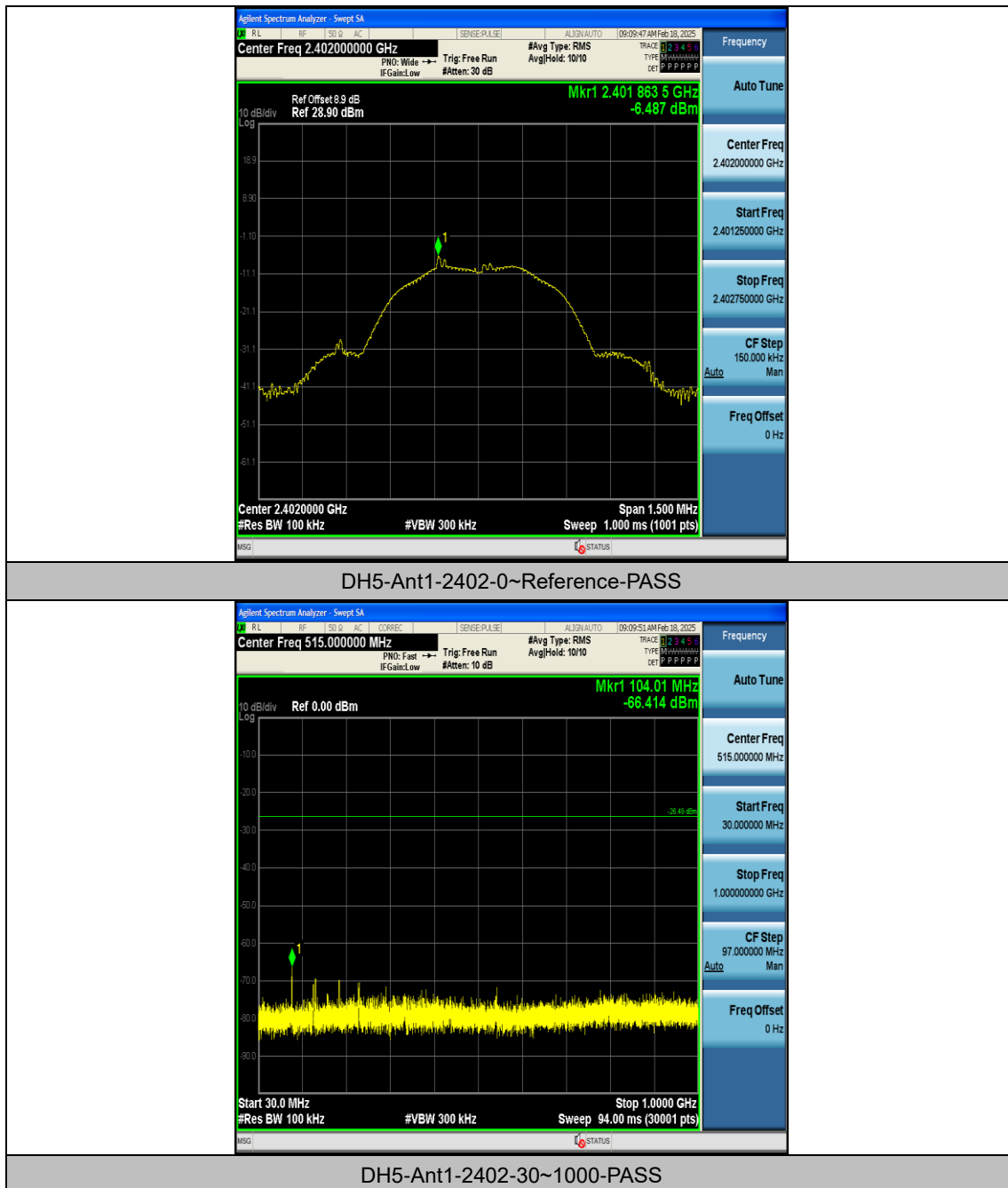


## Appendix H: Conducted Spurious Emission

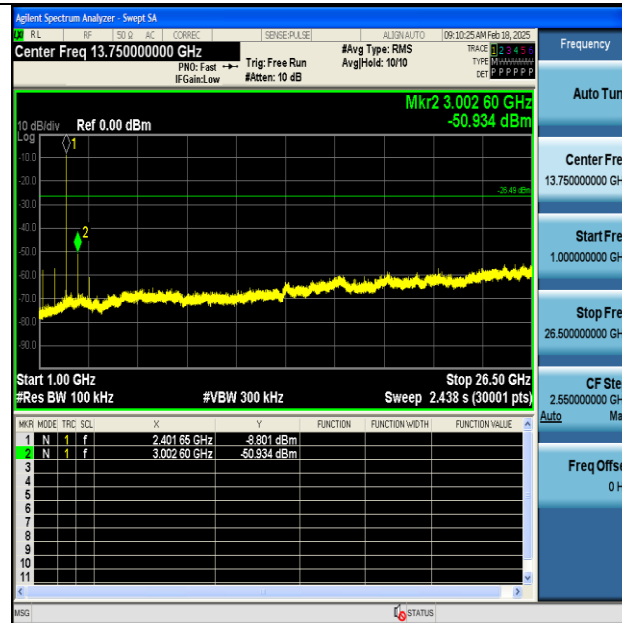
### Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| DH5       | Ant1    | 2402            | 0~Reference       | -6.49            | -6.49        | ---         | PASS    |
| DH5       | Ant1    | 2402            | 30~1000           | -6.49            | -66.41       | ≤-26.49     | PASS    |
| DH5       | Ant1    | 2402            | 1000~26500        | -6.49            | -50.93       | ≤-26.49     | PASS    |
| DH5       | Ant1    | 2441            | 0~Reference       | -8.62            | -8.62        | ---         | PASS    |
| DH5       | Ant1    | 2441            | 30~1000           | -8.62            | -65.86       | ≤-28.62     | PASS    |
| DH5       | Ant1    | 2441            | 1000~26500        | -8.62            | -54.23       | ≤-28.62     | PASS    |
| DH5       | Ant1    | 2480            | 0~Reference       | -5.67            | -5.67        | ---         | PASS    |
| DH5       | Ant1    | 2480            | 30~1000           | -5.67            | -66.95       | ≤-25.67     | PASS    |
| DH5       | Ant1    | 2480            | 1000~26500        | -5.67            | -53.27       | ≤-25.67     | PASS    |
| 2DH5      | Ant1    | 2402            | 0~Reference       | -10.80           | -10.80       | ---         | PASS    |
| 2DH5      | Ant1    | 2402            | 30~1000           | -10.80           | -66.4        | ≤-30.8      | PASS    |
| 2DH5      | Ant1    | 2402            | 1000~26500        | -10.80           | -50.57       | ≤-30.8      | PASS    |
| 2DH5      | Ant1    | 2441            | 0~Reference       | -2.16            | -2.16        | ---         | PASS    |
| 2DH5      | Ant1    | 2441            | 30~1000           | -2.16            | -66.2        | ≤-22.16     | PASS    |
| 2DH5      | Ant1    | 2441            | 1000~26500        | -2.16            | -54.32       | ≤-22.16     | PASS    |
| 2DH5      | Ant1    | 2480            | 0~Reference       | -7.15            | -7.15        | ---         | PASS    |
| 2DH5      | Ant1    | 2480            | 30~1000           | -7.15            | -66.41       | ≤-27.15     | PASS    |
| 2DH5      | Ant1    | 2480            | 1000~26500        | -7.15            | -49.38       | ≤-27.15     | PASS    |
| 3DH5      | Ant1    | 2402            | 0~Reference       | -4.48            | -4.48        | ---         | PASS    |
| 3DH5      | Ant1    | 2402            | 30~1000           | -4.48            | -66.23       | ≤-24.48     | PASS    |
| 3DH5      | Ant1    | 2402            | 1000~26500        | -4.48            | -49.72       | ≤-24.48     | PASS    |
| 3DH5      | Ant1    | 2441            | 0~Reference       | -3.28            | -3.28        | ---         | PASS    |
| 3DH5      | Ant1    | 2441            | 30~1000           | -3.28            | -66.31       | ≤-23.28     | PASS    |
| 3DH5      | Ant1    | 2441            | 1000~26500        | -3.28            | -55.27       | ≤-23.28     | PASS    |
| 3DH5      | Ant1    | 2480            | 0~Reference       | -8.79            | -8.79        | ---         | PASS    |
| 3DH5      | Ant1    | 2480            | 30~1000           | -8.79            | -66.53       | ≤-28.79     | PASS    |
| 3DH5      | Ant1    | 2480            | 1000~26500        | -8.79            | -52.1        | ≤-28.79     | PASS    |

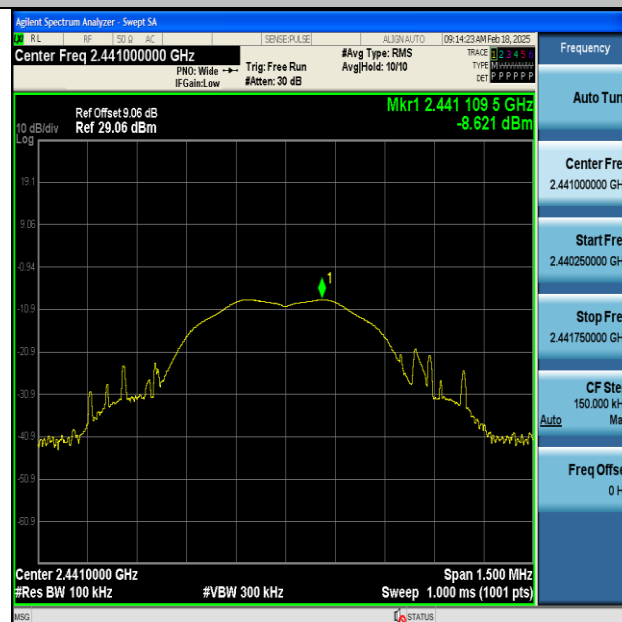
## Test Graphs



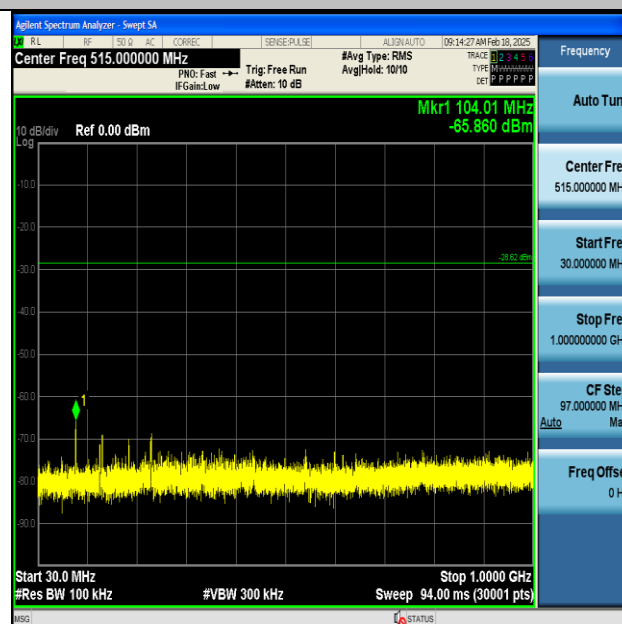




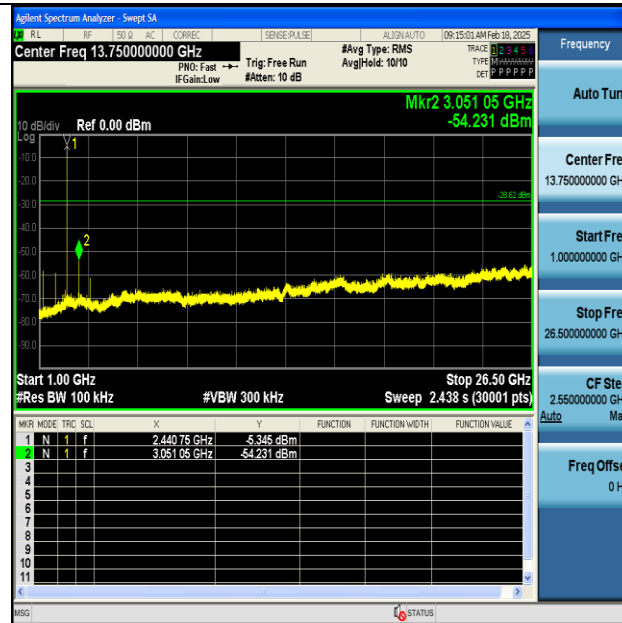
DH5-Ant1-2402-1000~26500-PASS



DH5-Ant1-2441-0~Reference-PASS



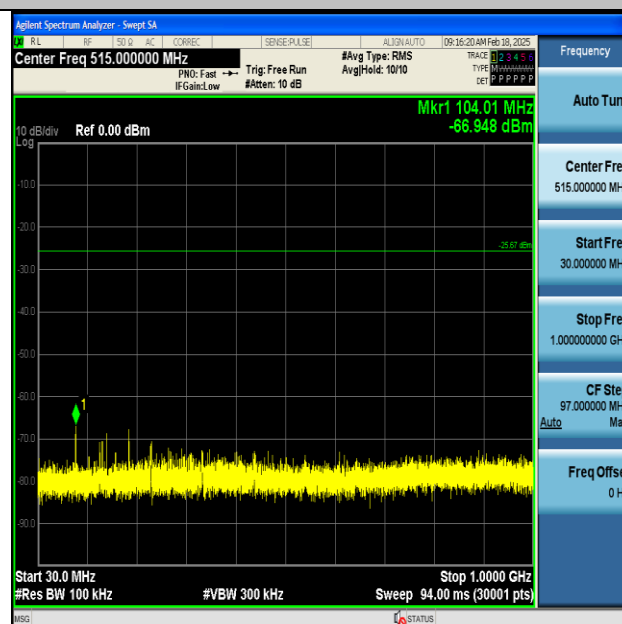
DH5-Ant1-2441-30~1000-PASS



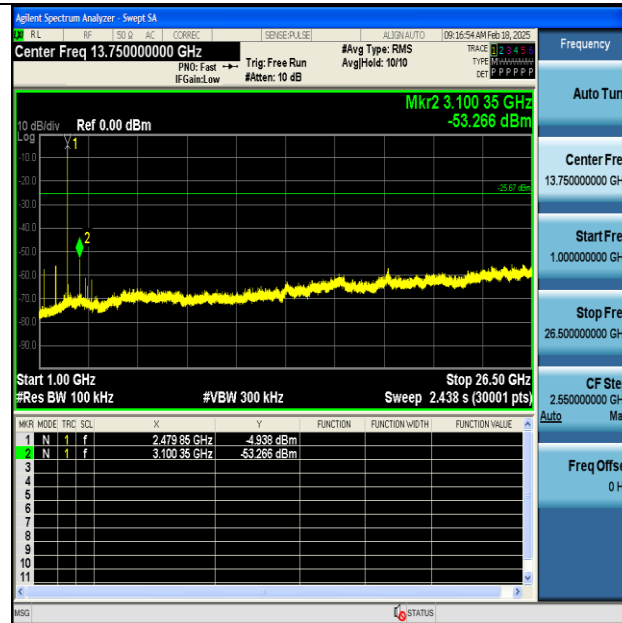
DH5-Ant1-2441-1000~26500-PASS



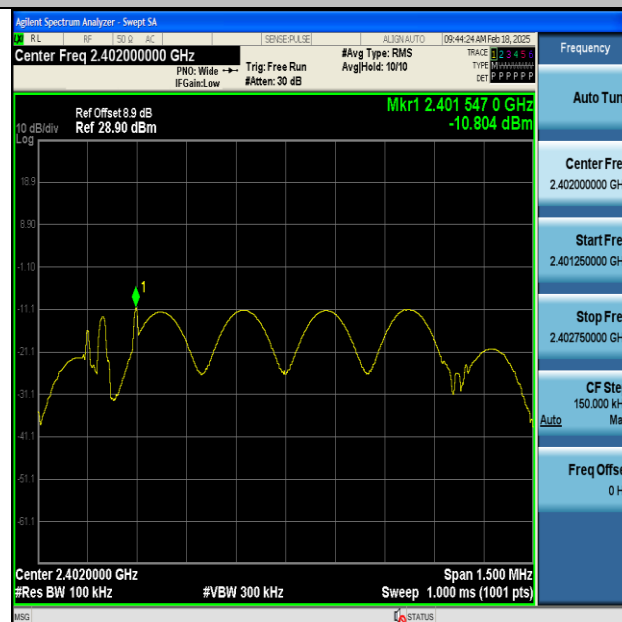
DH5-Ant1-2480-0~Reference-PASS



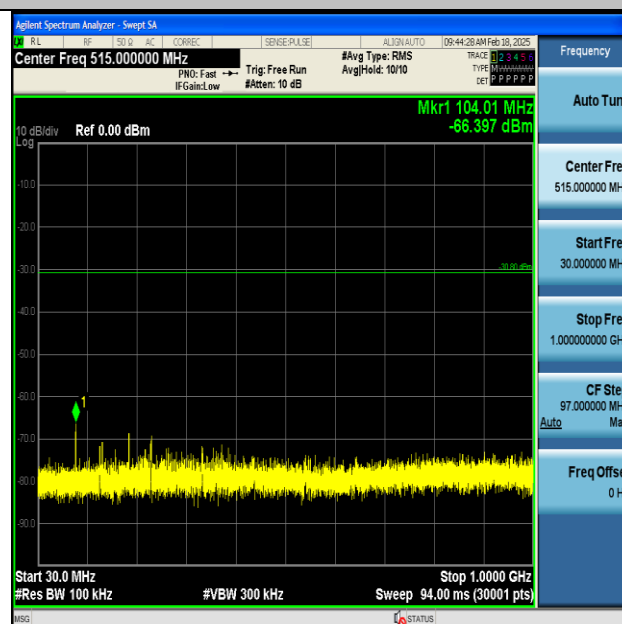
DH5-Ant1-2480-30~1000-PASS



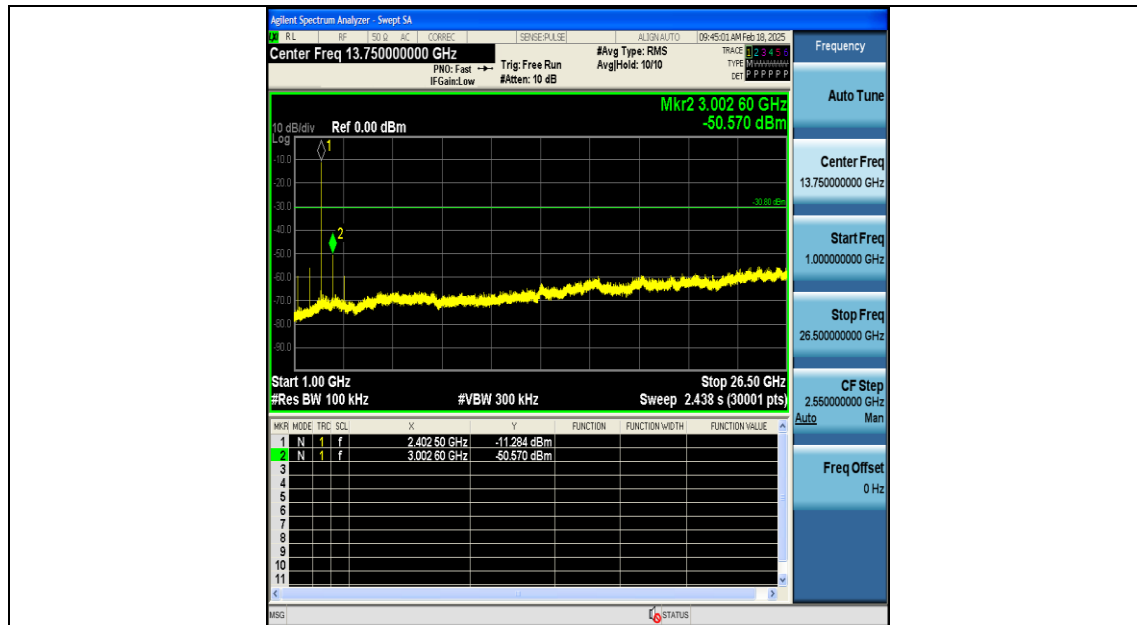
DH5-Ant1-2480-1000~26500-PASS



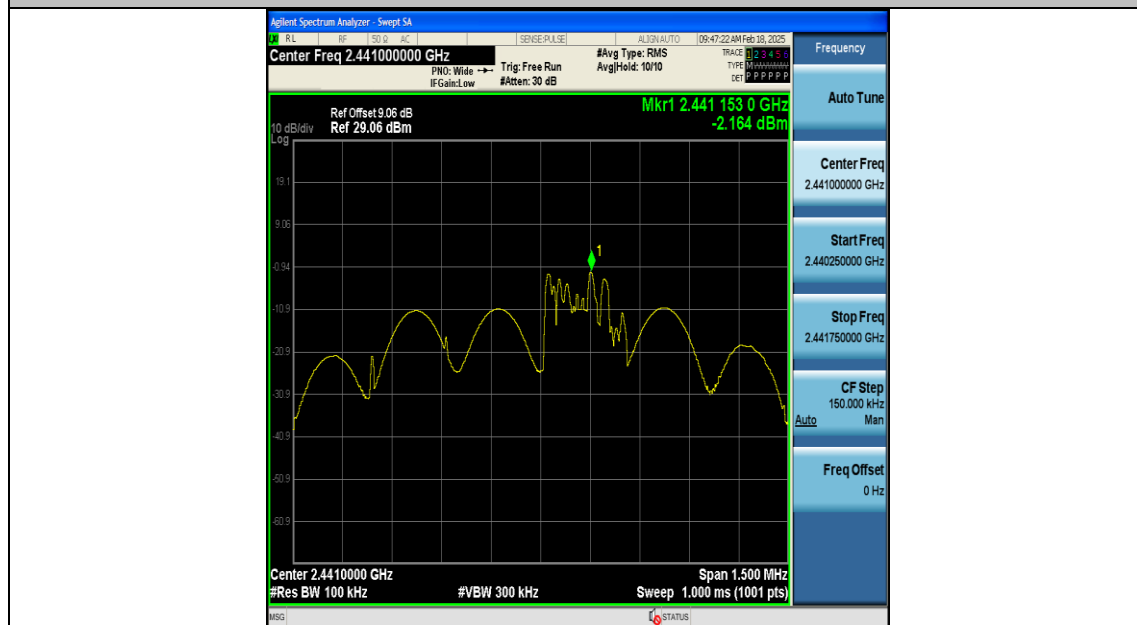
2DH5-Ant1-2402-0~Reference-PASS



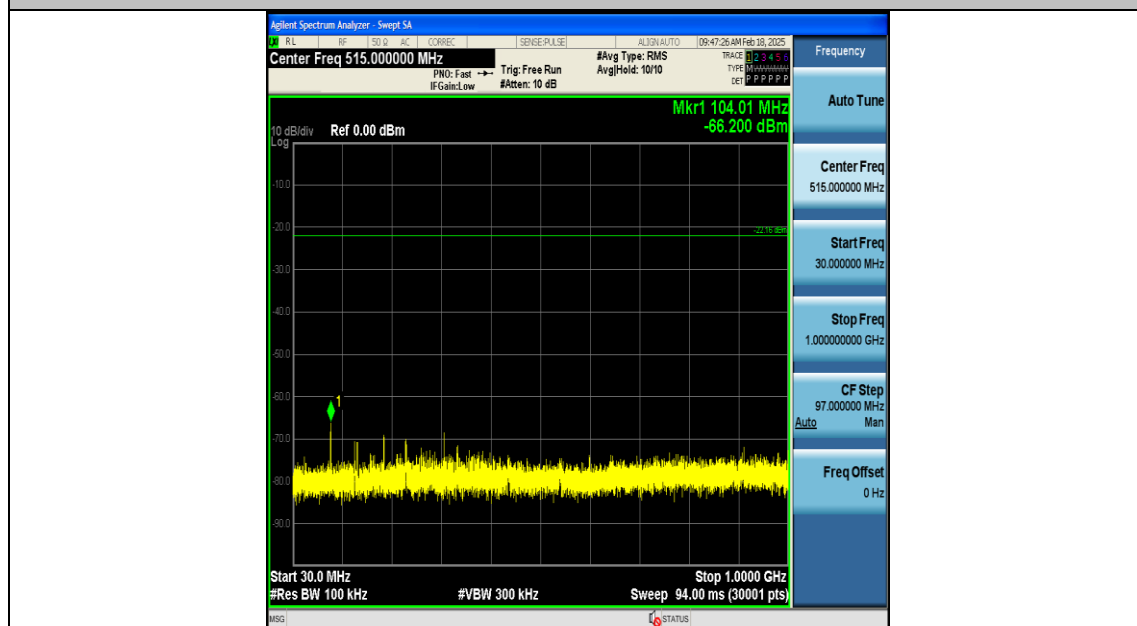
2DH5-Ant1-2402-30~1000-PASS



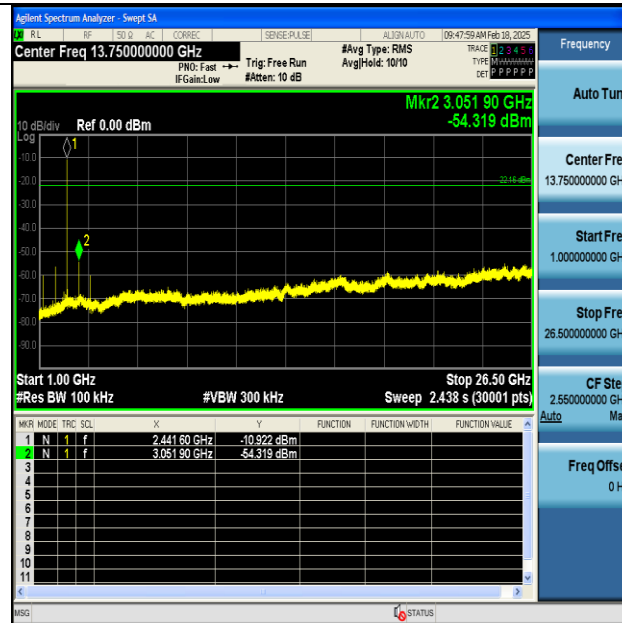
2DH5-Ant1-2402-1000~26500-PASS



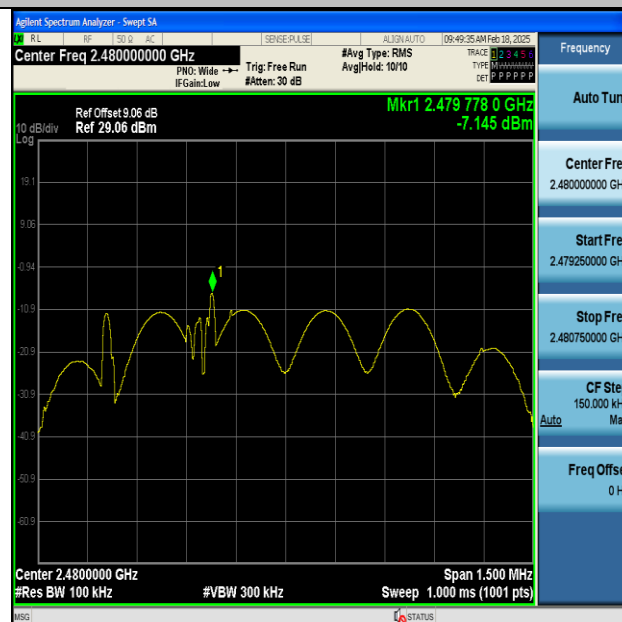
2DH5-Ant1-2441-0~Reference-PASS



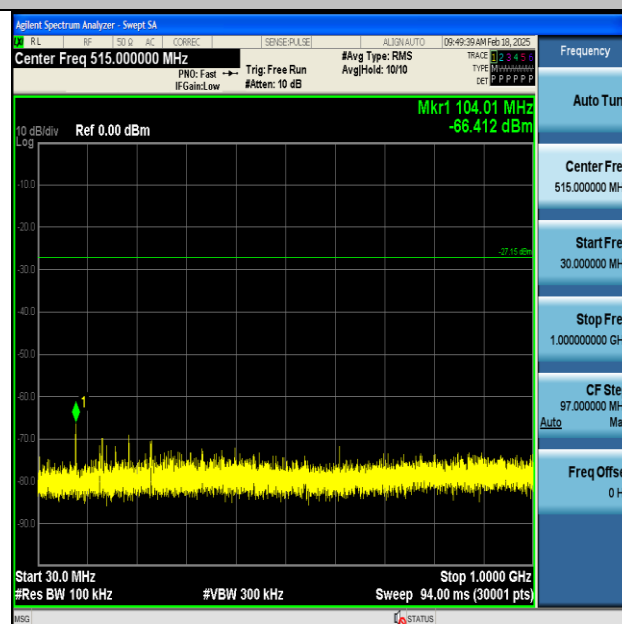
2DH5-Ant1-2441-30~1000-PASS



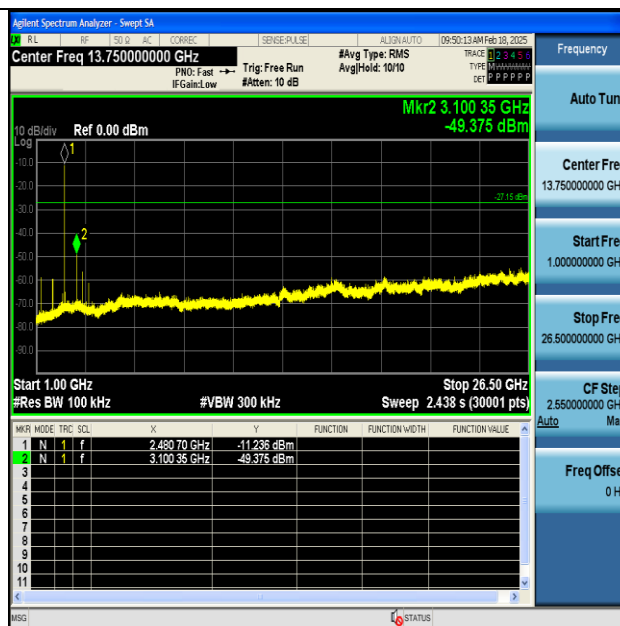
2DH5-Ant1-2441-1000~26500-PASS



2DH5-Ant1-2480-0~Reference-PASS



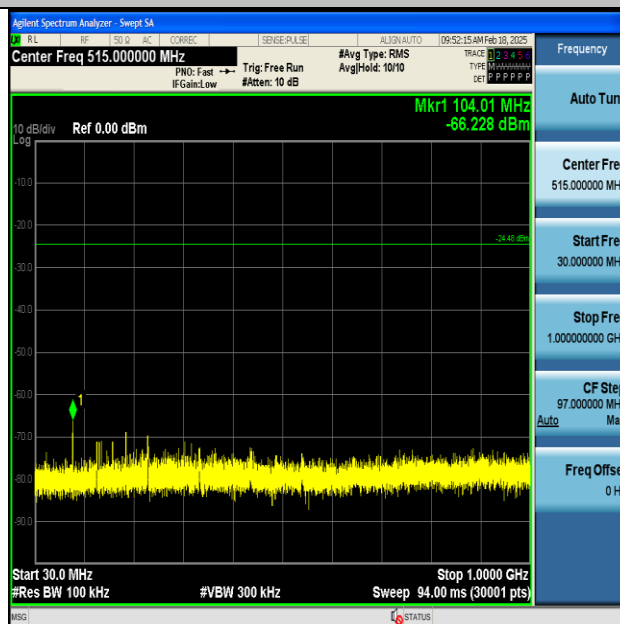
2DH5-Ant1-2480-30~1000-PASS



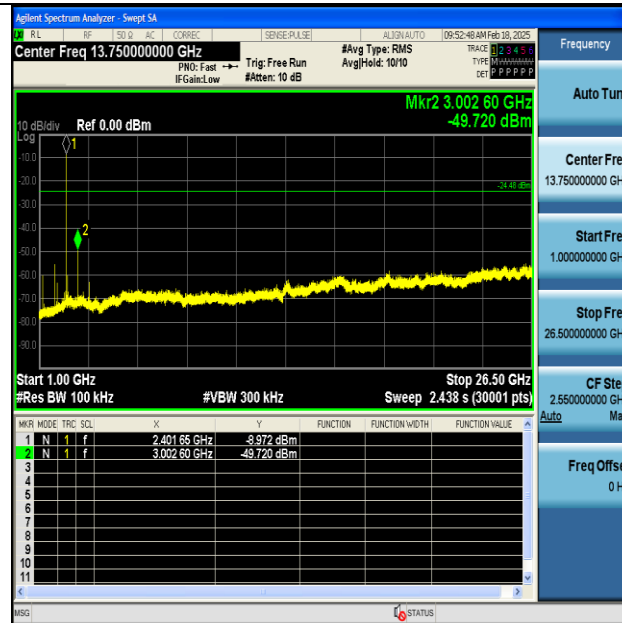
2DH5-Ant1-2480-1000~26500-PASS



3DH5-Ant1-2402-0~Reference-PASS



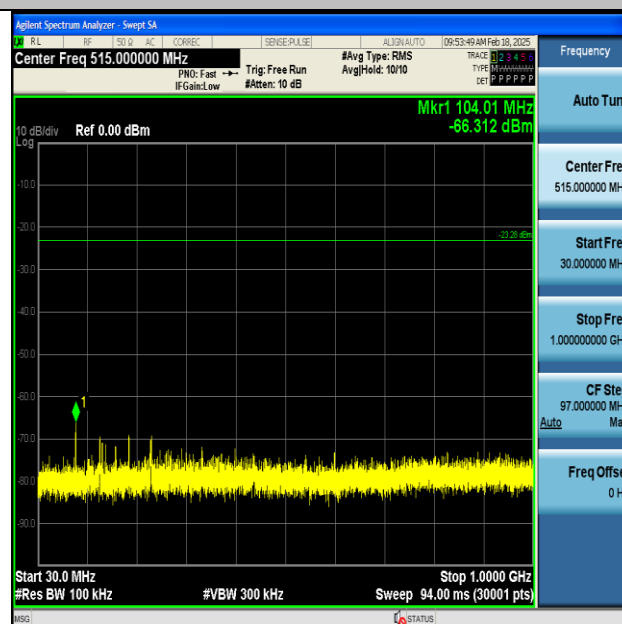
3DH5-Ant1-2402-30~1000-PASS



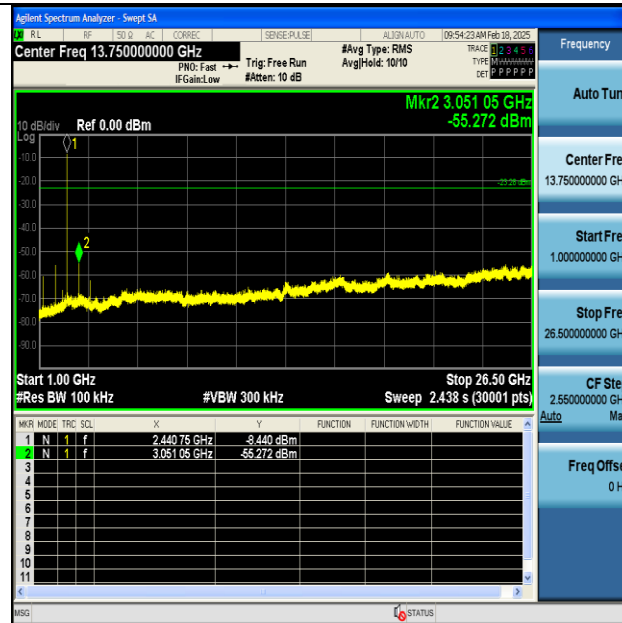
3DH5-Ant1-2402-1000~26500-PASS



3DH5-Ant1-2441-0~Reference-PASS



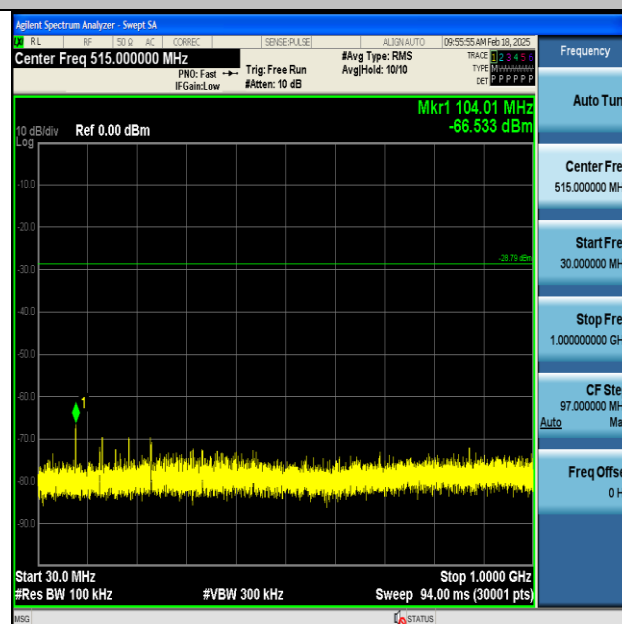
3DH5-Ant1-2441-30~1000-PASS



3DH5-Ant1-2441-1000~26500-PASS

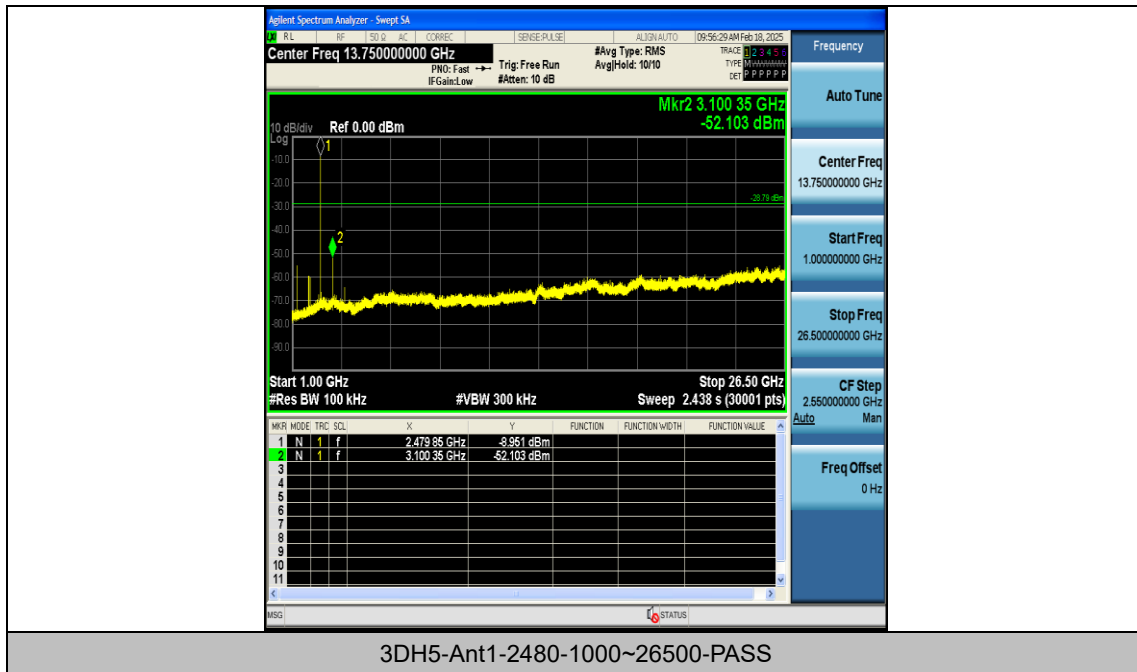


3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS



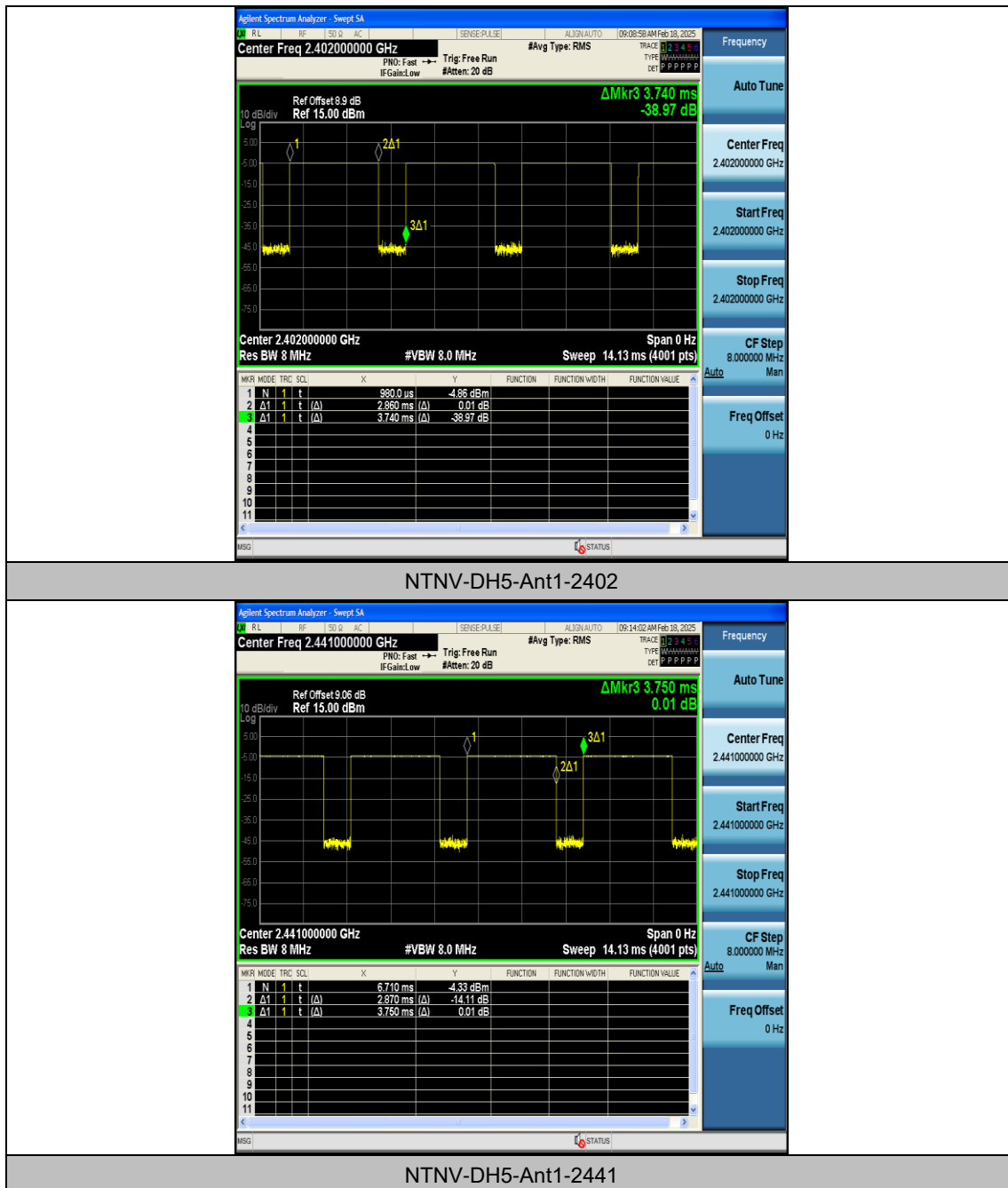


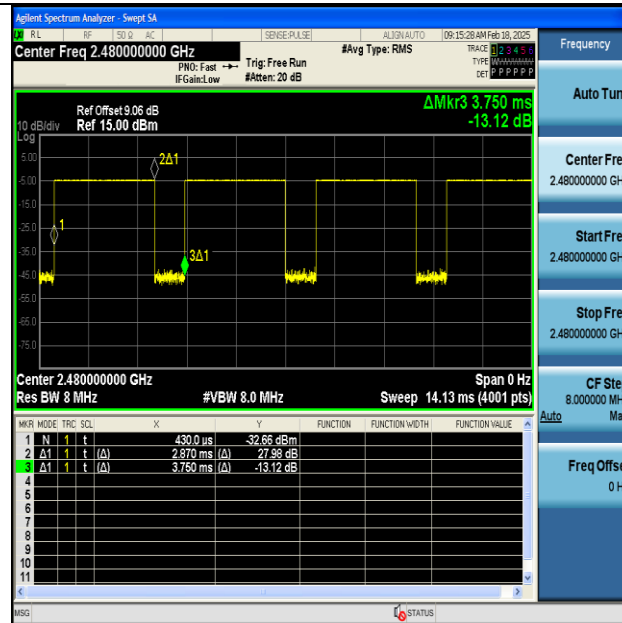
## Appendix I: Duty Cycle

### Test Result

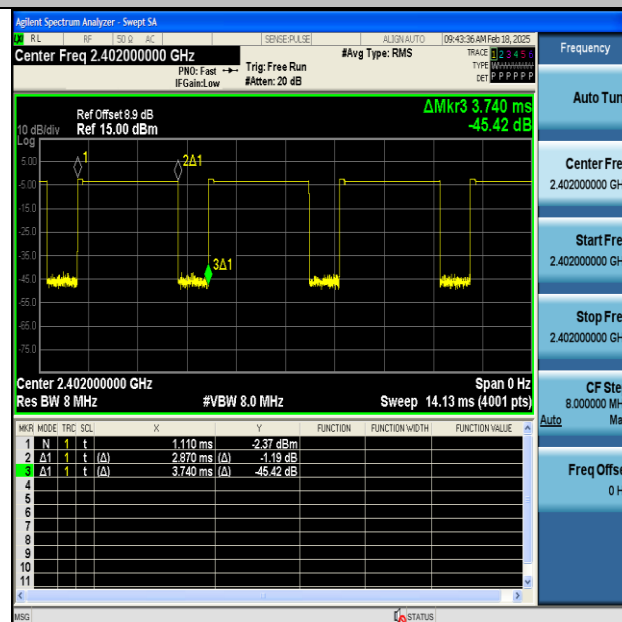
| Test Mode | Antenna | Frequency [MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor [dB] |
|-----------|---------|-----------------|--------------|-------------|----------------|------------------------|
| DH5       | Ant1    | 2402            | 2.86         | 3.74        | 76.47          | 1.17                   |
| DH5       | Ant1    | 2441            | 2.87         | 3.75        | 76.53          | 1.16                   |
| DH5       | Ant1    | 2480            | 2.87         | 3.75        | 76.53          | 1.16                   |
| 2DH5      | Ant1    | 2402            | 2.87         | 3.74        | 76.74          | 1.15                   |
| 2DH5      | Ant1    | 2441            | 2.88         | 3.75        | 76.80          | 1.15                   |
| 2DH5      | Ant1    | 2480            | 2.88         | 3.75        | 76.80          | 1.15                   |
| 3DH5      | Ant1    | 2402            | 2.88         | 3.76        | 76.60          | 1.16                   |
| 3DH5      | Ant1    | 2441            | 2.88         | 3.75        | 76.80          | 1.15                   |
| 3DH5      | Ant1    | 2480            | 2.88         | 3.75        | 76.80          | 1.15                   |

## Test Graphs

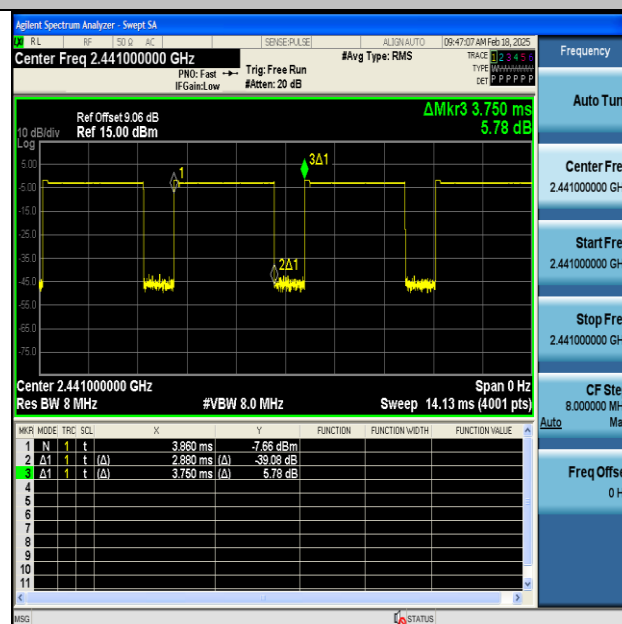




NTNV-DH5-Ant1-2480



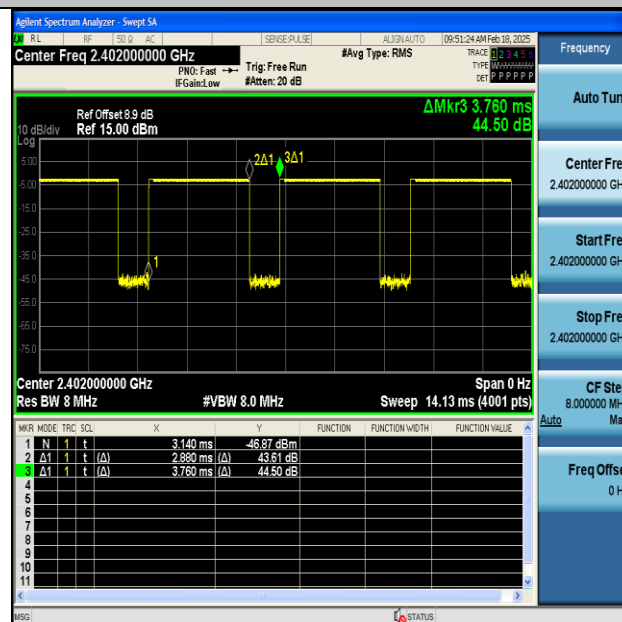
NTNV-2DH5-Ant1-2402



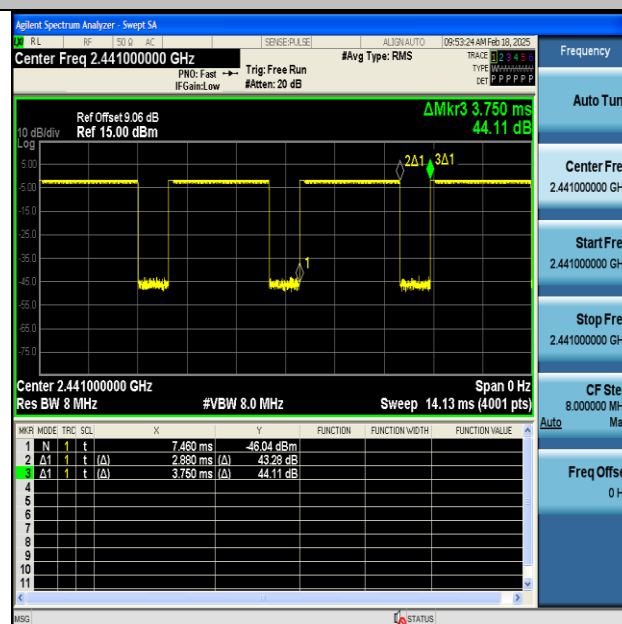
NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441

