

## Appendix Test Data

|                  |                 |                    |                   |
|------------------|-----------------|--------------------|-------------------|
| Report No.:      | 18220WC20262601 | Test Sample No.:   | 1-2-2             |
| Start Test Date: | 2022.11.15      | Finish Test Date:  | 2022.11.24        |
| Test Engineer:   | <i>Jony.He</i>  | Auditor:           | <i>Edward.Pan</i> |
| Temperature:     | 24.3℃           | Relative Humidity: | 57 %              |
| Pressure:        | 1012 hPa        |                    |                   |

## Appendix A: 20dB Emission Bandwidth

## Test Result

| Test Mode | Antenna | Channel | 20db EBW[MHz] | FL[MHz]  | FH[MHz]  |
|-----------|---------|---------|---------------|----------|----------|
| DH5       | Ant1    | 2402    | 0.957         | 2401.520 | 2402.477 |
|           |         | 2441    | 0.948         | 2440.526 | 2441.474 |
|           |         | 2480    | 0.942         | 2479.532 | 2480.474 |
| 2DH5      | Ant1    | 2402    | 1.428         | 2401.265 | 2402.693 |
|           |         | 2441    | 1.422         | 2440.274 | 2441.696 |
|           |         | 2480    | 1.446         | 2479.256 | 2480.702 |
| 3DH5      | Ant1    | 2402    | 1.500         | 2401.253 | 2402.753 |
|           |         | 2441    | 1.488         | 2440.256 | 2441.744 |
|           |         | 2480    | 1.491         | 2479.256 | 2480.747 |



## Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480

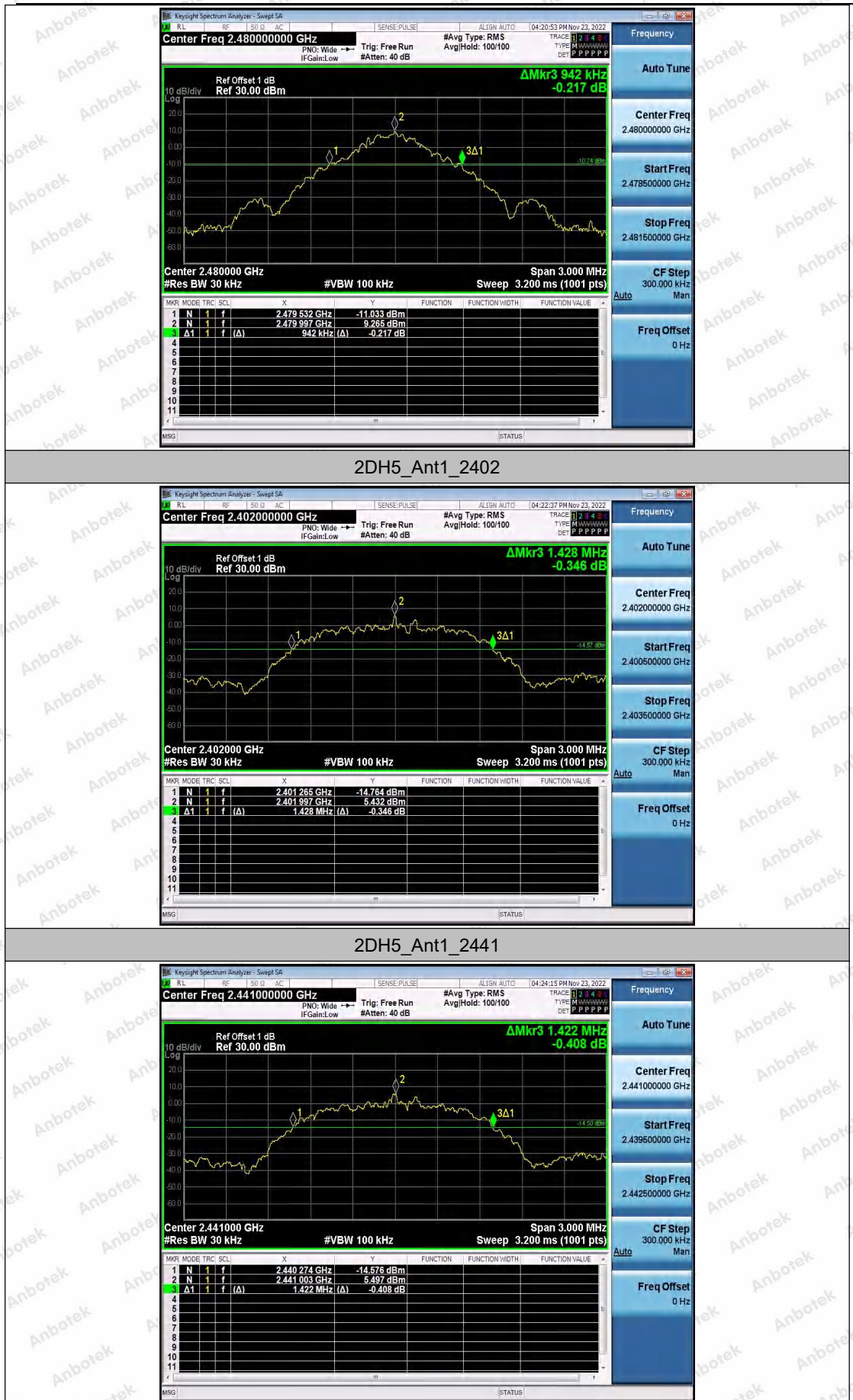
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## 2DH5\_Ant1\_2480



## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441

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## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|-----------|---------|---------|-----------|-----------|-----------|
| DH5       | Ant1    | 2402    | 0.87687   | 2401.5490 | 2402.4258 |
|           |         | 2441    | 0.86212   | 2440.5599 | 2441.4220 |
|           |         | 2480    | 0.87277   | 2479.5568 | 2480.4296 |
| 2DH5      | Ant1    | 2402    | 1.3600    | 2401.3075 | 2402.6675 |
|           |         | 2441    | 1.3718    | 2440.3010 | 2441.6728 |
|           |         | 2480    | 1.3542    | 2479.3106 | 2480.6648 |
| 3DH5      | Ant1    | 2402    | 1.3633    | 2401.3082 | 2402.6715 |
|           |         | 2441    | 1.3512    | 2440.3116 | 2441.6628 |
|           |         | 2480    | 1.3737    | 2479.3021 | 2480.6758 |



## Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480

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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



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## 2DH5\_Ant1\_2480



## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441

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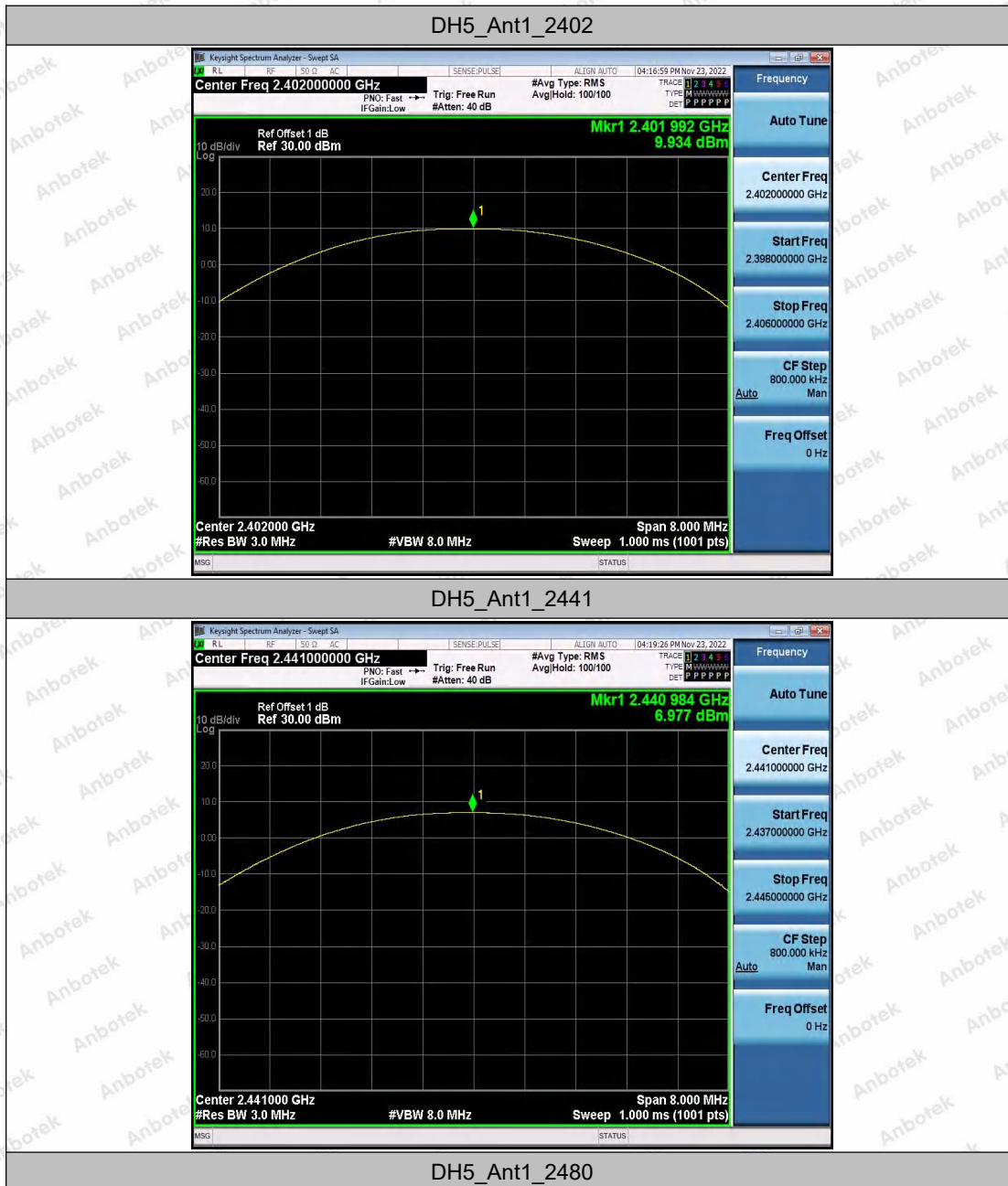
## Appendix C: Maximum conducted output power

### Test Result

| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| DH5       | Ant1    | 2402    | 9.93        | ≤20.97     | PASS    |
|           |         | 2441    | 6.98        | ≤20.97     | PASS    |
|           |         | 2480    | 10.53       | ≤20.97     | PASS    |
| 2DH5      | Ant1    | 2402    | 8.74        | ≤20.97     | PASS    |
|           |         | 2441    | 8.84        | ≤20.97     | PASS    |
|           |         | 2480    | 8.72        | ≤20.97     | PASS    |
| 3DH5      | Ant1    | 2402    | 8.88        | ≤20.97     | PASS    |
|           |         | 2441    | 9.00        | ≤20.97     | PASS    |
|           |         | 2480    | 8.90        | ≤20.97     | PASS    |



## Test Graphs



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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



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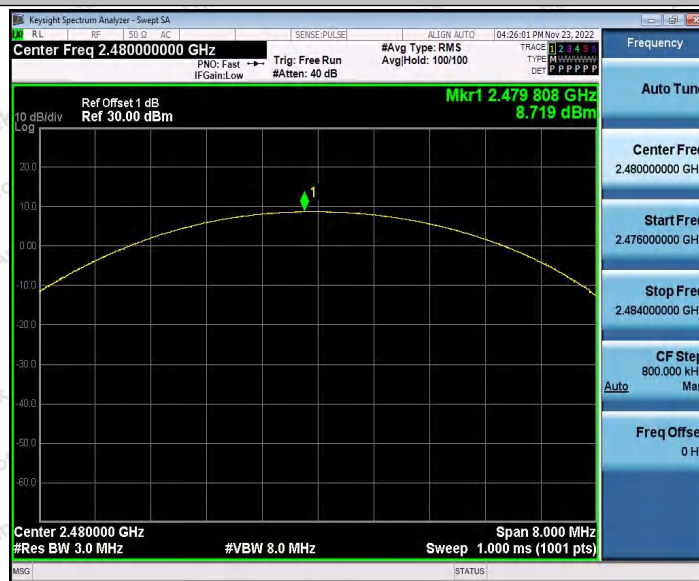
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## 2DH5\_Ant1\_2480



## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441

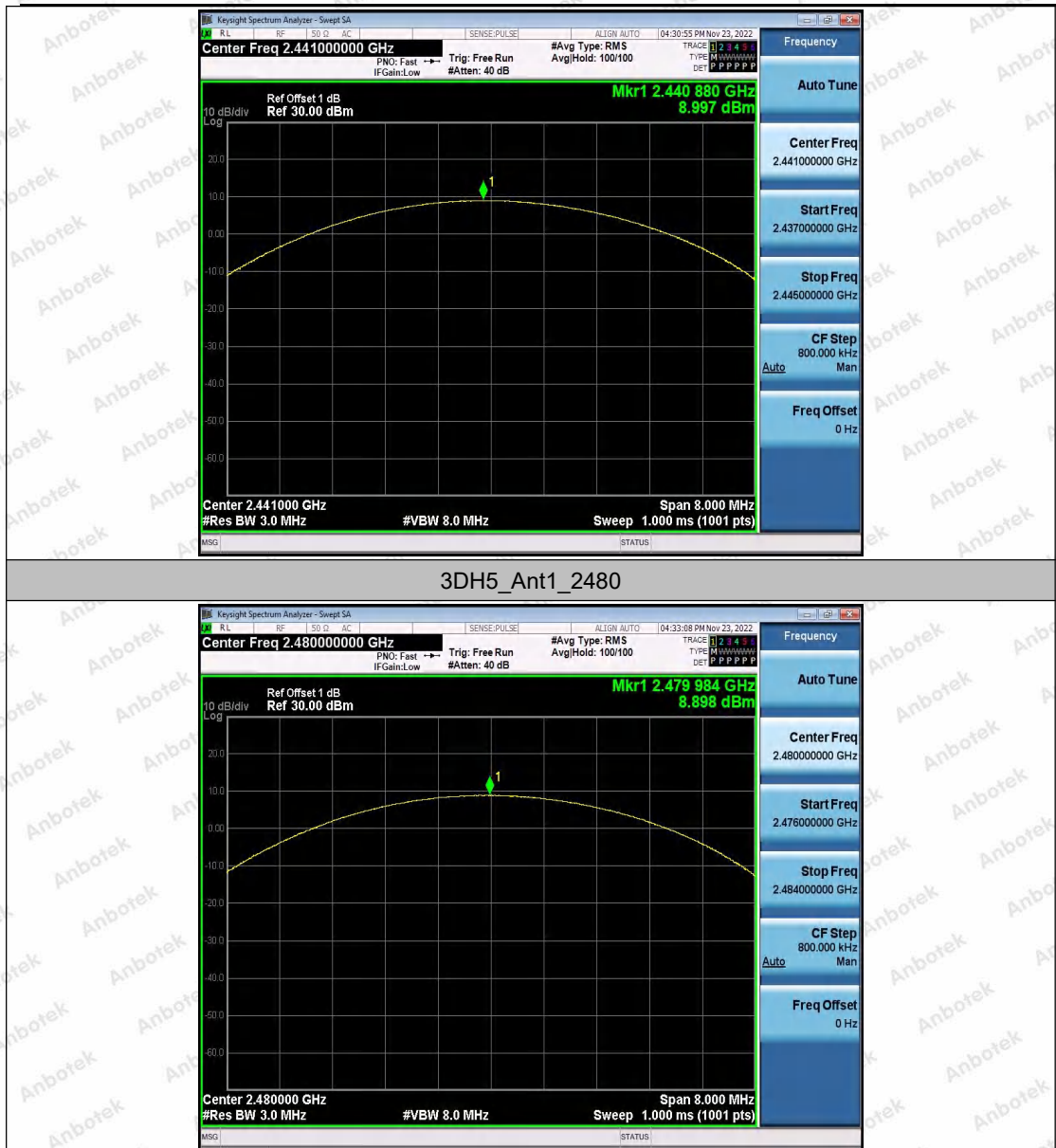
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## Appendix D: Carrier frequency separation

### Test Result

| Test Mode | Antenna | Channel | Result[MHz] | Limit[MHz]   | Verdict |
|-----------|---------|---------|-------------|--------------|---------|
| DH5       | Ant1    | Hop     | 1.32        | $\geq 0.957$ | PASS    |
| 2DH5      | Ant1    | Hop     | 1.254       | $\geq 0.964$ | PASS    |
| 3DH5      | Ant1    | Hop     | 1.002       | $\geq 1.000$ | PASS    |



## Test Graphs



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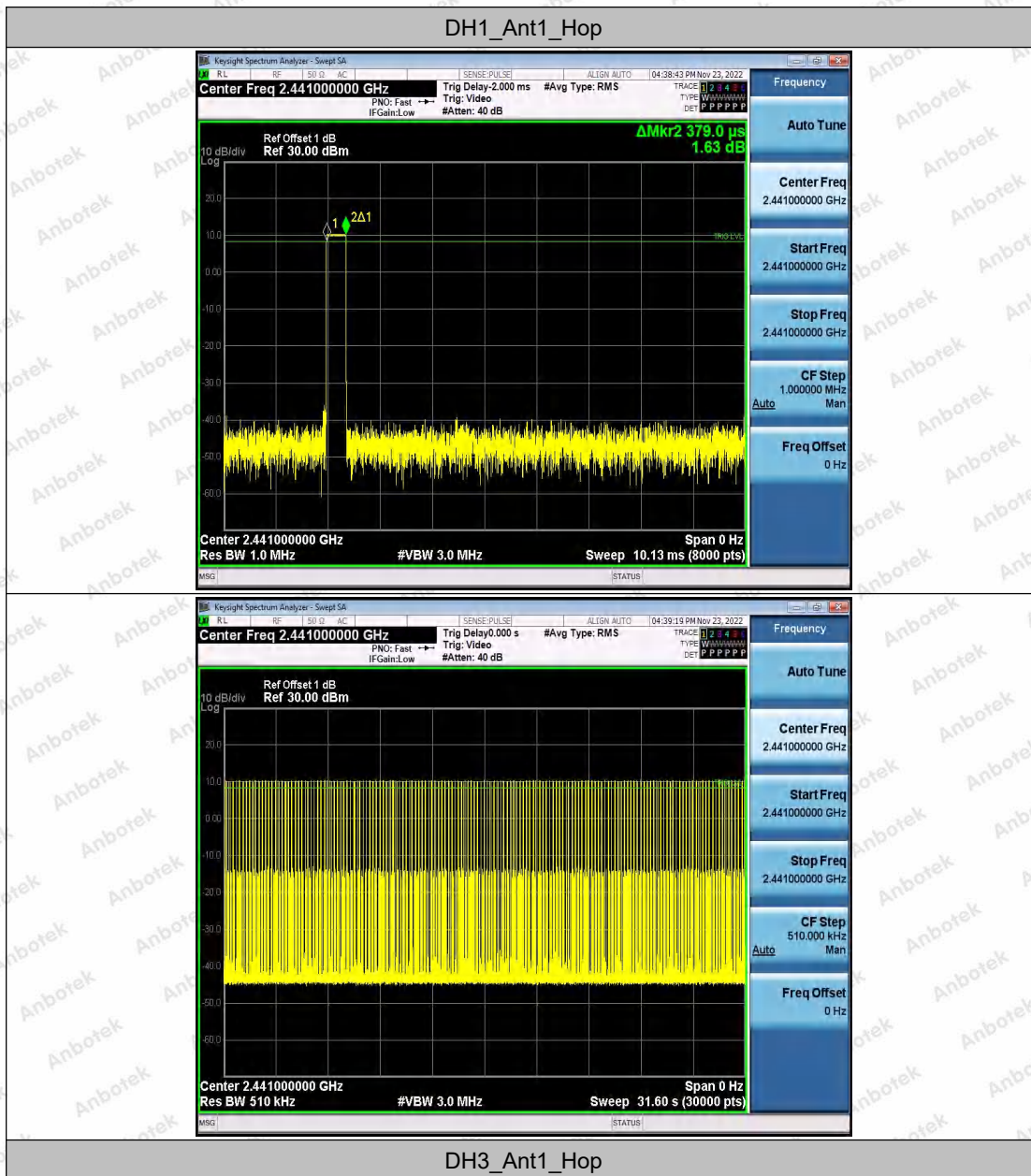
## Appendix E: Time of occupancy

### Test Result

| Test Mode | Antenna | Channel | Burst Width<br>[ms] | Total Hops<br>[Num] | Result[s] | Limit[s] | Verdict |
|-----------|---------|---------|---------------------|---------------------|-----------|----------|---------|
| DH1       | Ant1    | Hop     | 0.379               | 314                 | 0.119     | ≤0.4     | PASS    |
| DH3       | Ant1    | Hop     | 1.635               | 171                 | 0.280     | ≤0.4     | PASS    |
| DH5       | Ant1    | Hop     | 2.883               | 98                  | 0.283     | ≤0.4     | PASS    |
| 2DH1      | Ant1    | Hop     | 0.388               | 314                 | 0.122     | ≤0.4     | PASS    |
| 2DH3      | Ant1    | Hop     | 1.639               | 172                 | 0.282     | ≤0.4     | PASS    |
| 2DH5      | Ant1    | Hop     | 2.888               | 104                 | 0.300     | ≤0.4     | PASS    |
| 3DH1      | Ant1    | Hop     | 0.388               | 312                 | 0.121     | ≤0.4     | PASS    |
| 3DH3      | Ant1    | Hop     | 1.639               | 171                 | 0.280     | ≤0.4     | PASS    |
| 3DH5      | Ant1    | Hop     | 2.889               | 114                 | 0.329     | ≤0.4     | PASS    |



## Test Graphs



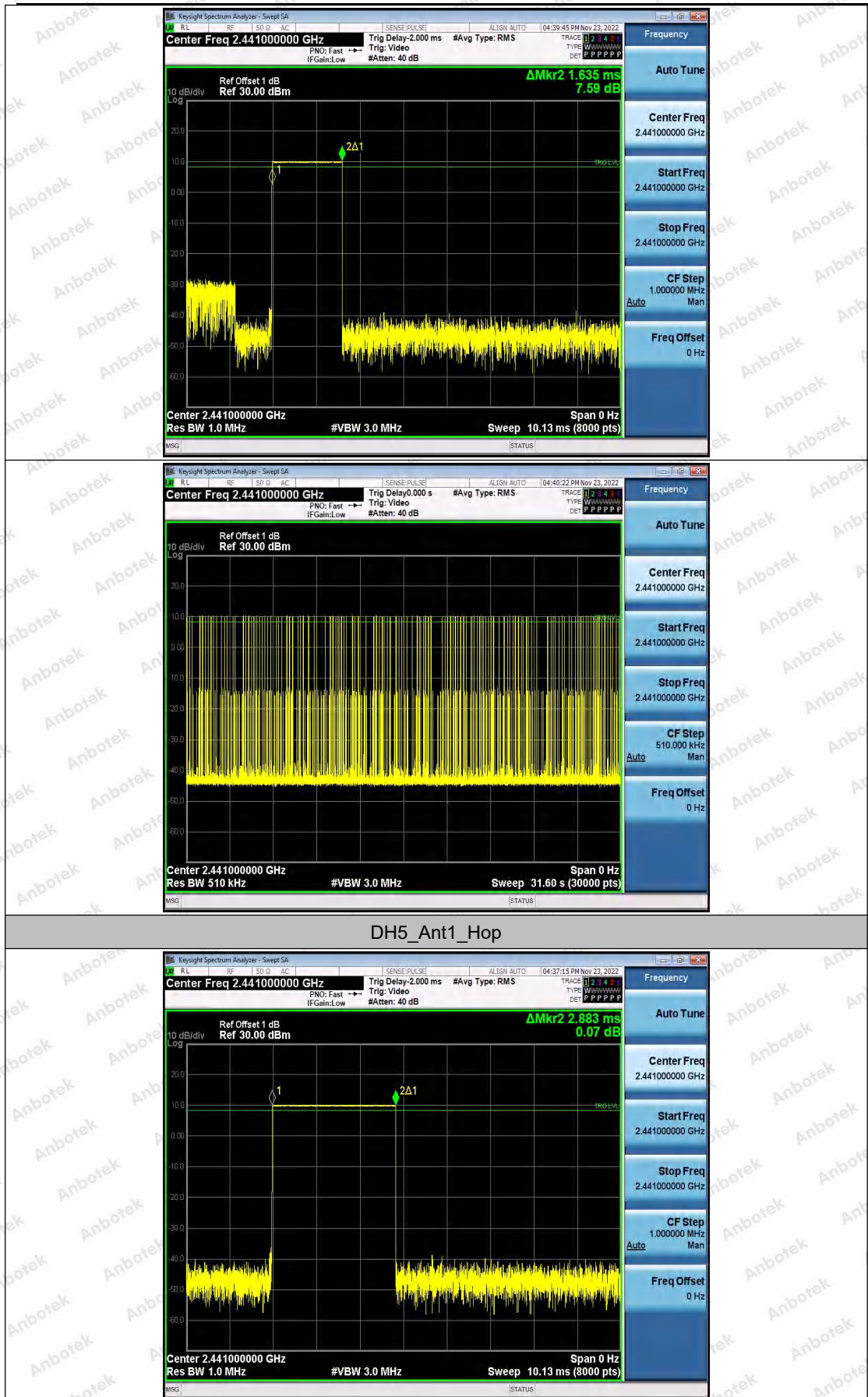
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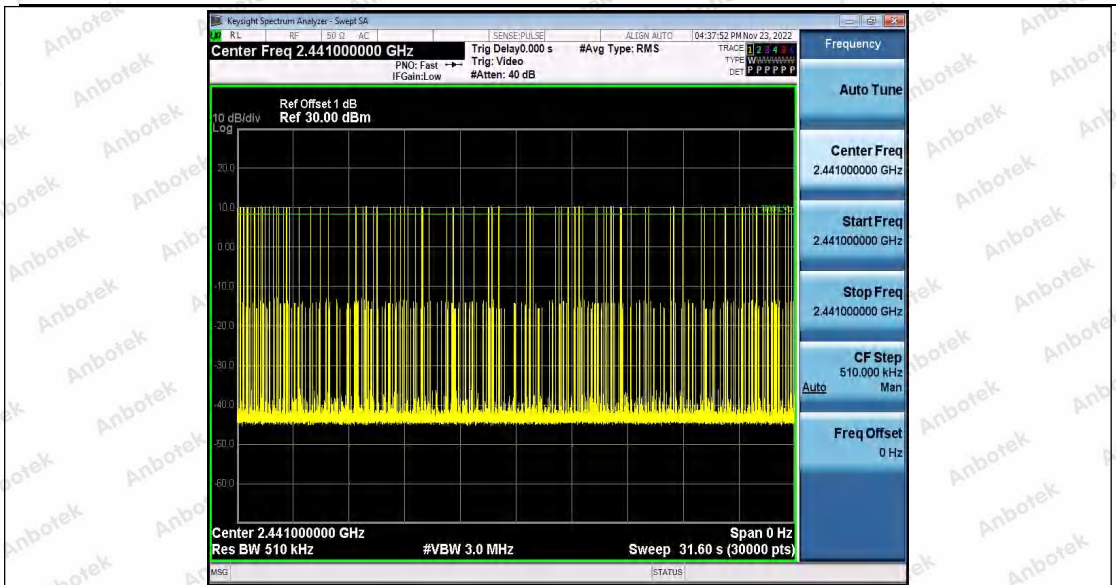
DH5\_Ant1\_Hop

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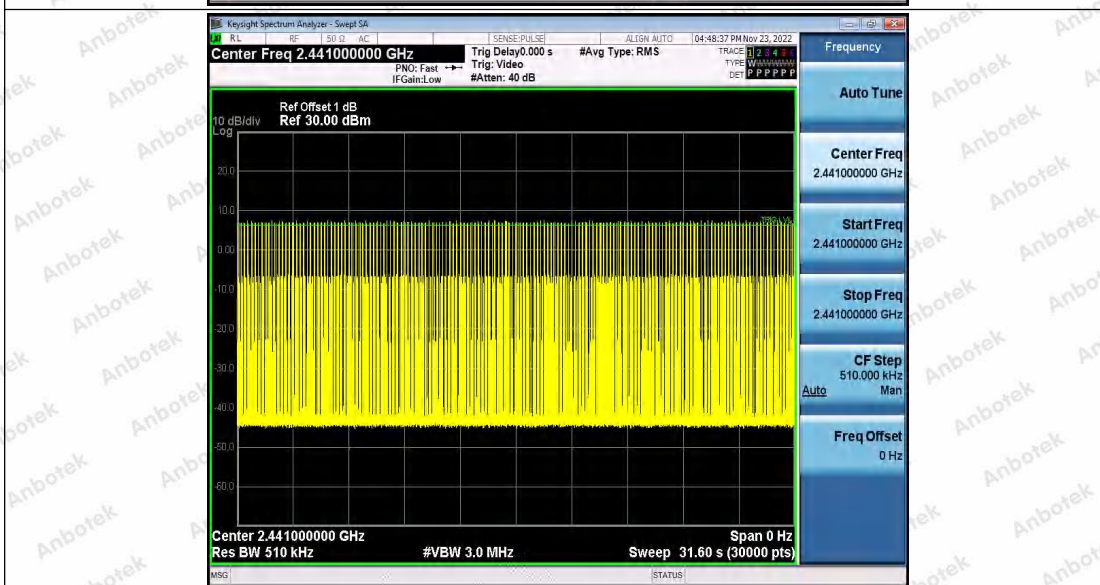
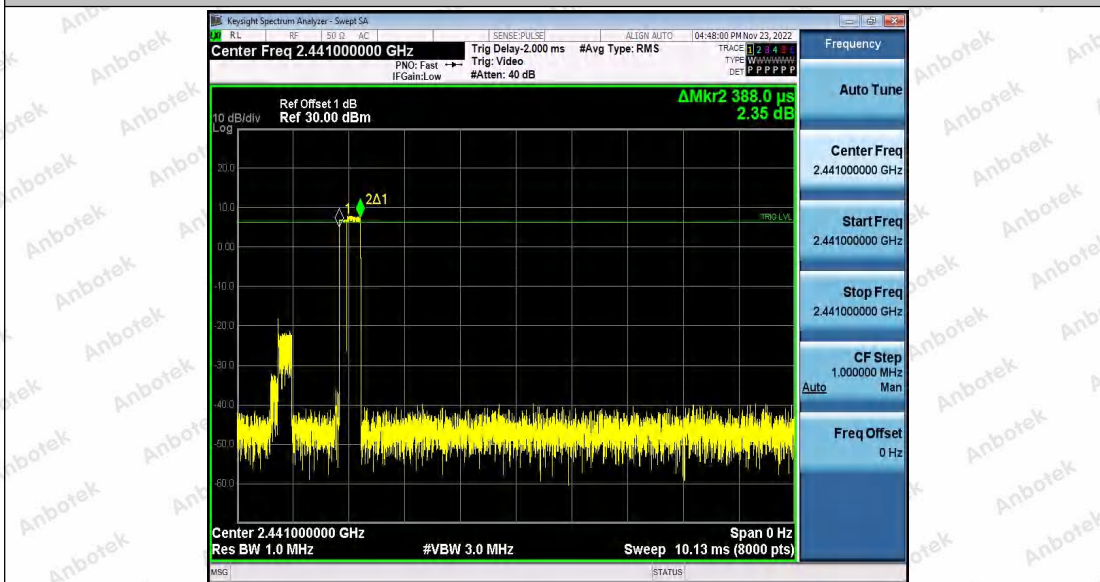
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2DH1\_Ant1\_Hop



2DH3\_Ant1\_Hop

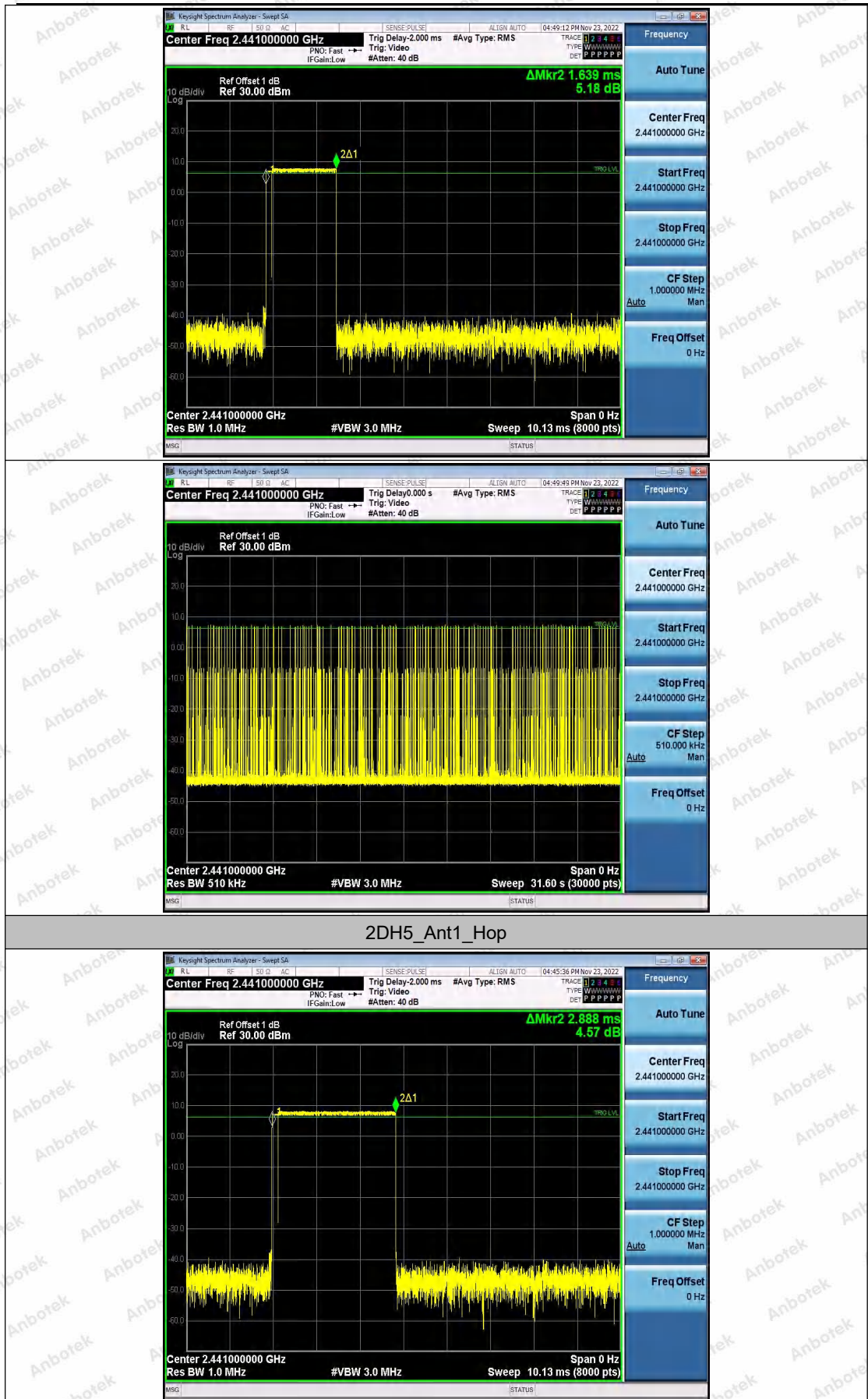
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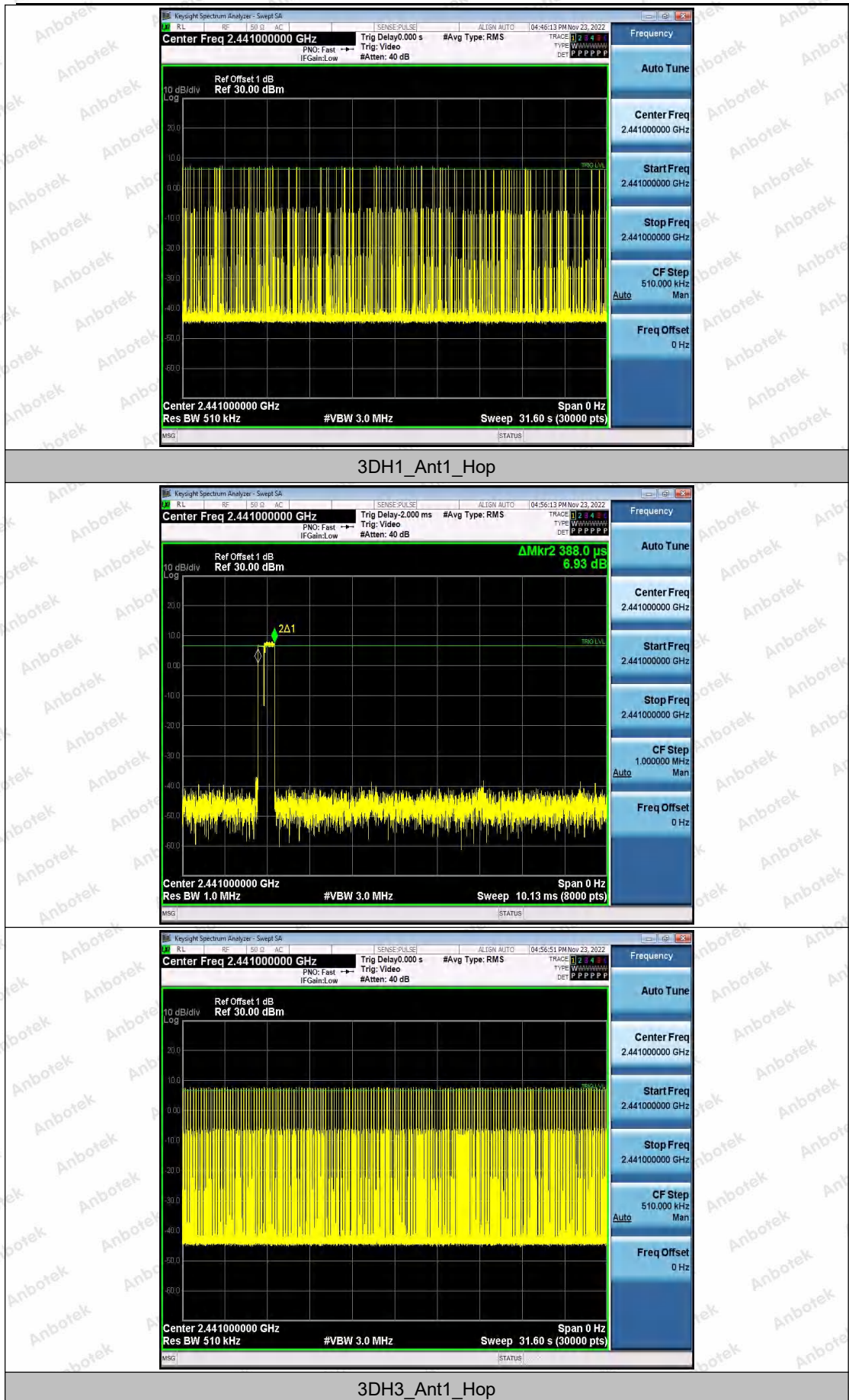
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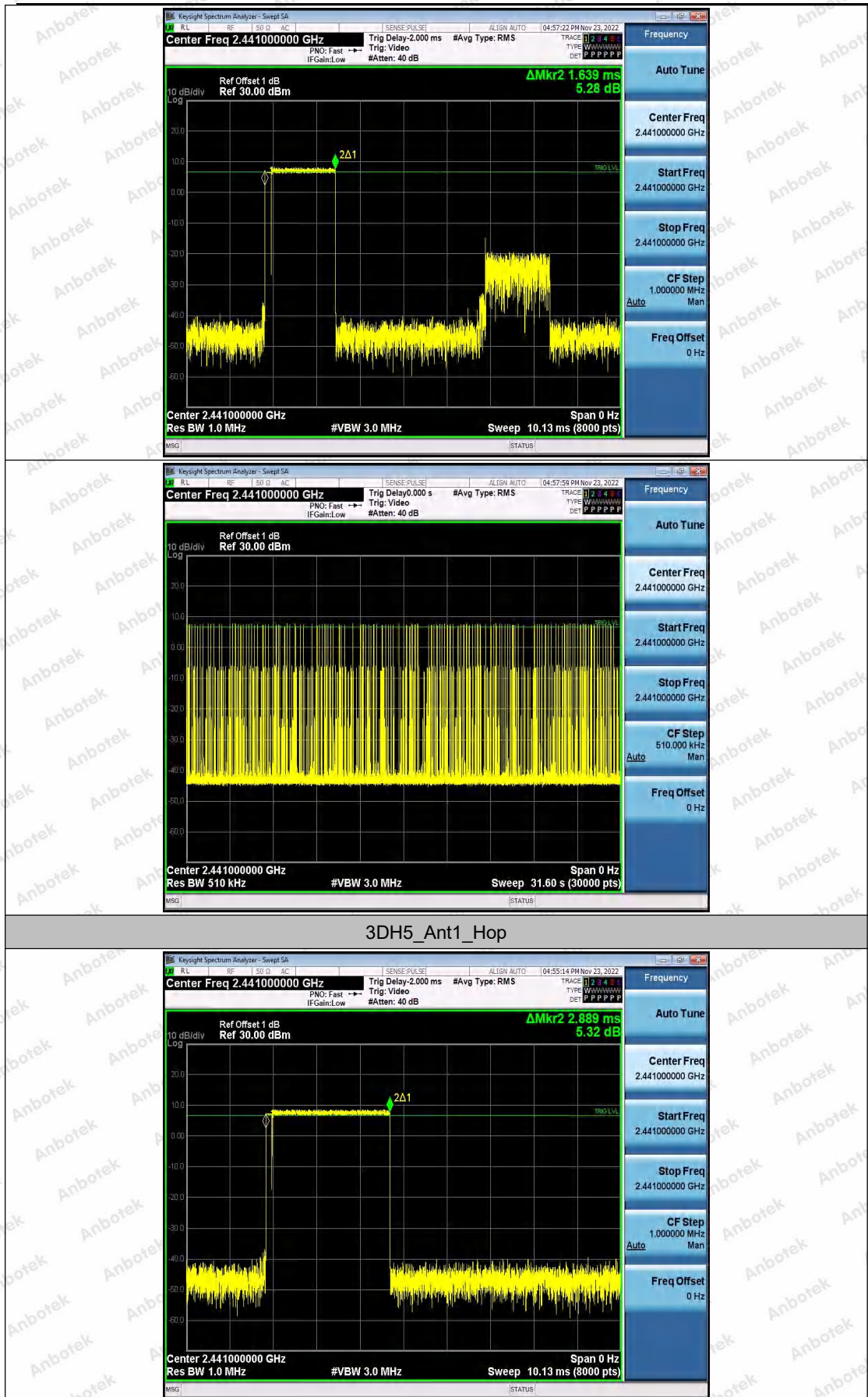
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3DH5\_Ant1\_Hop

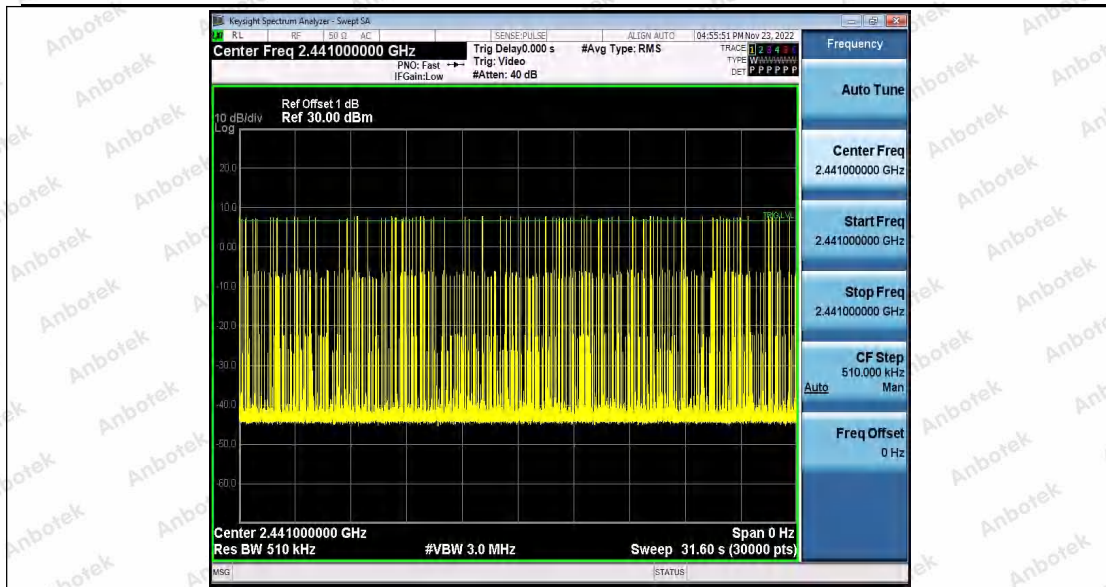
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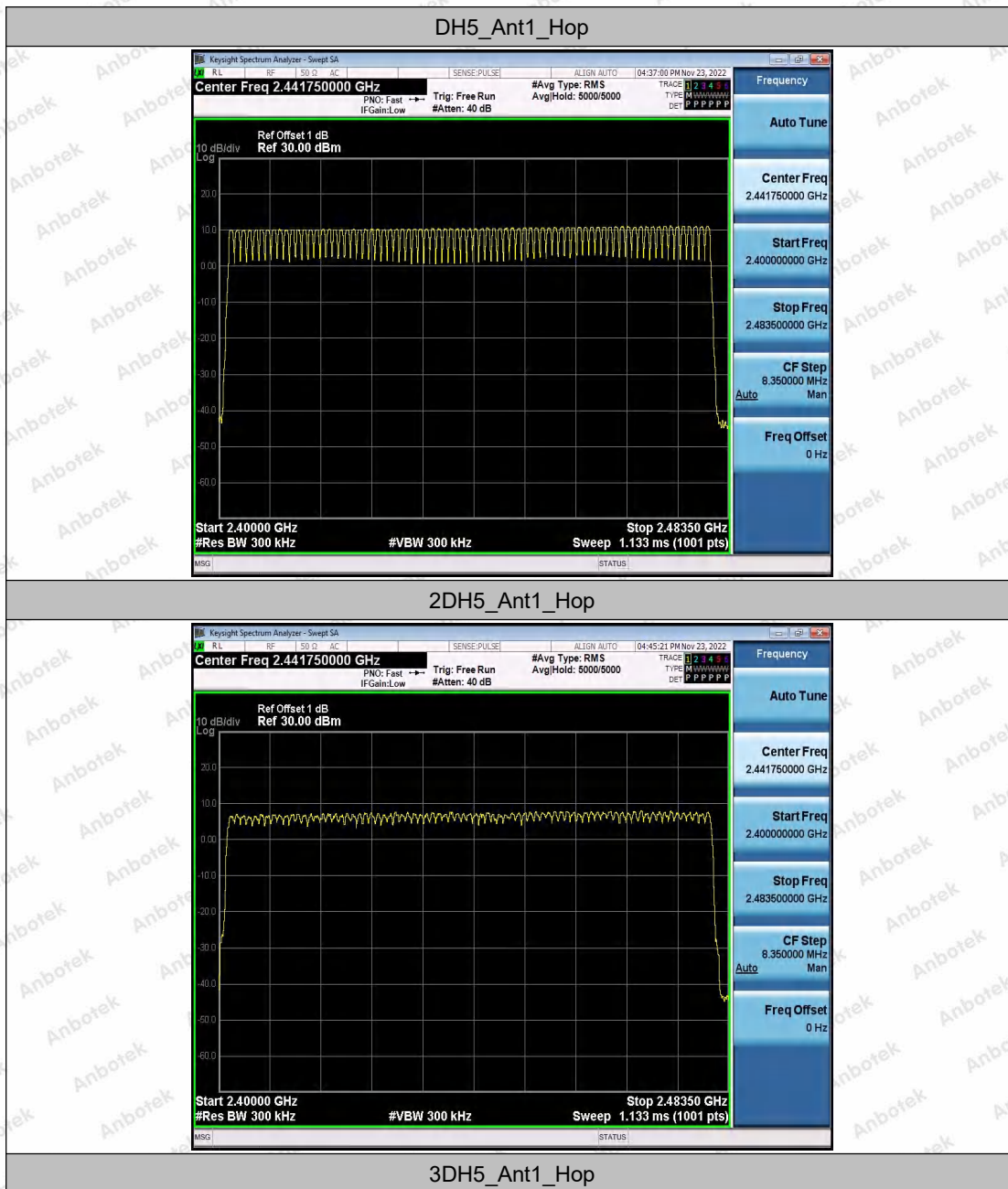
## Appendix F: Number of hopping channels

### Test Result

| Test Mode | 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



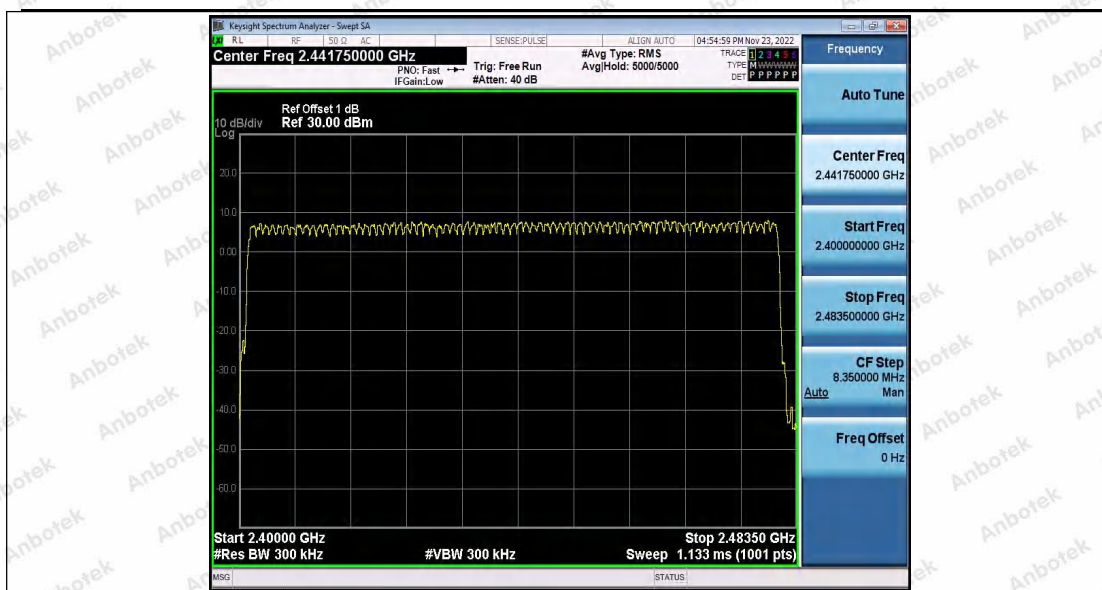
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## Appendix G: Band edge measurements

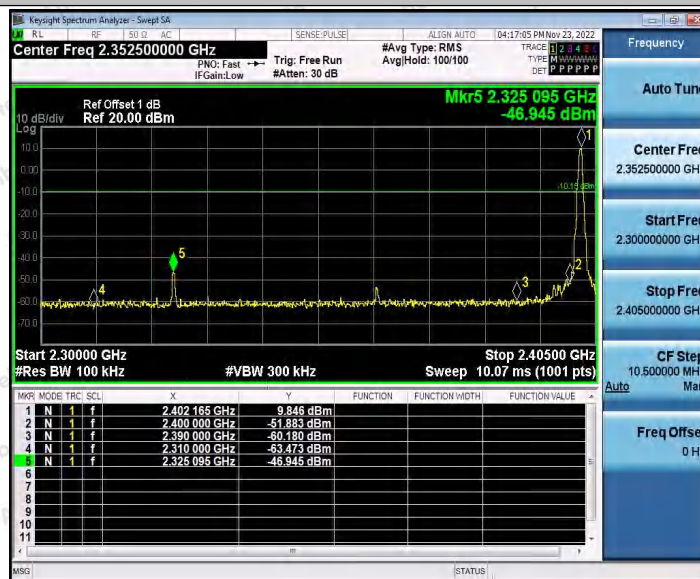
### Test Result

| Test Mode | Antenna | Ch Name | Channel  | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|---------|----------|-----------------|--------------|-------------|---------|
| DH5       | Ant1    | Low     | 2402     | 9.85            | -46.95       | ≤-10.15     | PASS    |
|           |         | High    | 2480     | 10.32           | -41.83       | ≤-9.68      | PASS    |
|           |         | Low     | Hop_2402 | 9.56            | -45.03       | ≤-10.45     | PASS    |
|           |         | High    | Hop_2480 | 10.63           | -44.74       | ≤-9.37      | PASS    |
| 2DH5      | Ant1    | Low     | 2402     | 6.75            | -40.24       | ≤-13.25     | PASS    |
|           |         | High    | 2480     | 5.17            | -41.34       | ≤-14.84     | PASS    |
|           |         | Low     | Hop_2402 | 4.33            | -47.23       | ≤-15.68     | PASS    |
|           |         | High    | Hop_2480 | 7.18            | -46.03       | ≤-12.82     | PASS    |
| 3DH5      | Ant1    | Low     | 2402     | 5.50            | -38.4        | ≤-14.5      | PASS    |
|           |         | High    | 2480     | 5.74            | -50.27       | ≤-14.26     | PASS    |
|           |         | Low     | Hop_2402 | 6.02            | -47.76       | ≤-13.98     | PASS    |
|           |         | High    | Hop_2480 | 7.18            | -46.68       | ≤-12.82     | PASS    |

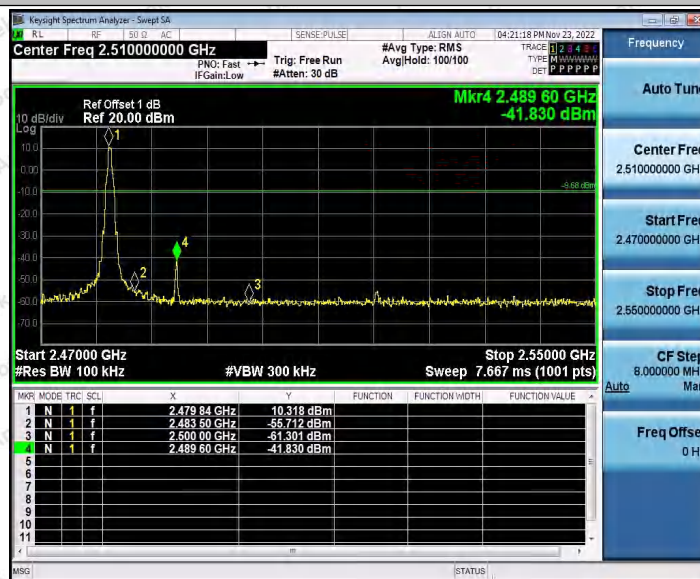


## Test Graphs

DH5\_Ant1\_Low\_2402



DH5\_Ant1\_High\_2480



DH5\_Ant1\_Low\_Hop\_2402

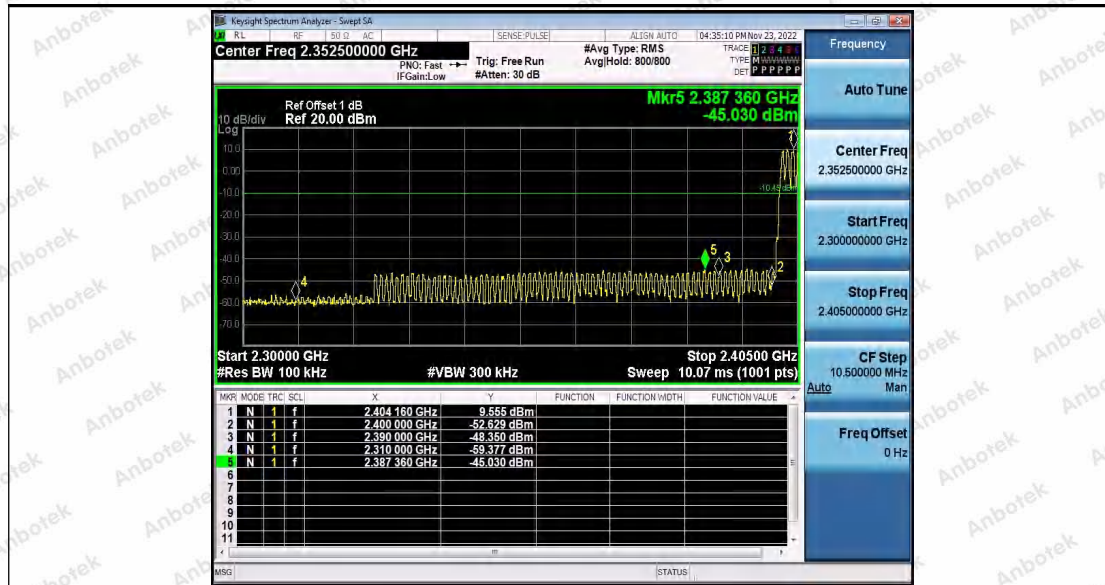
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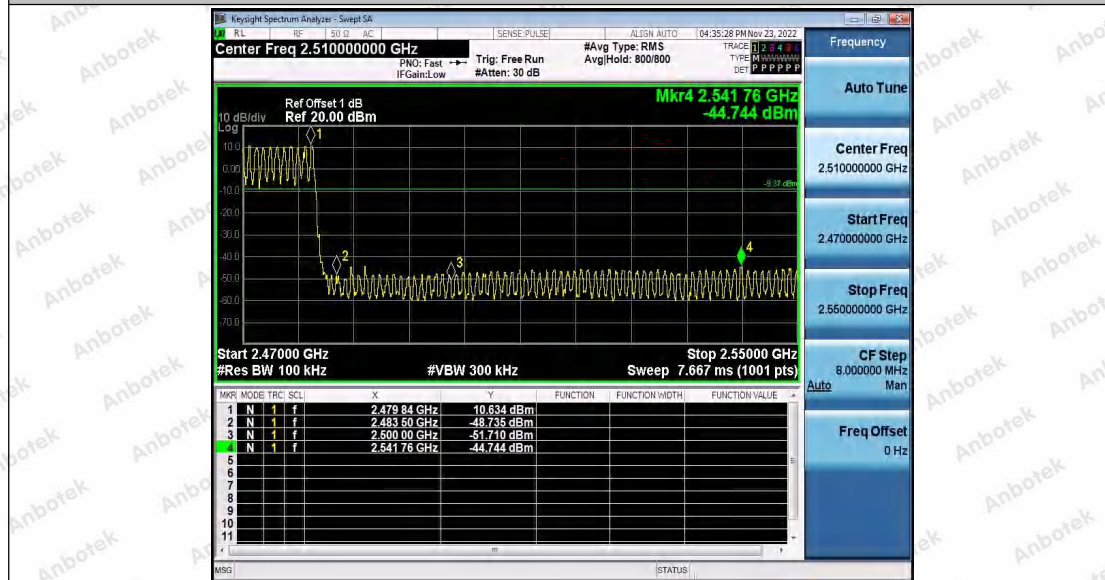


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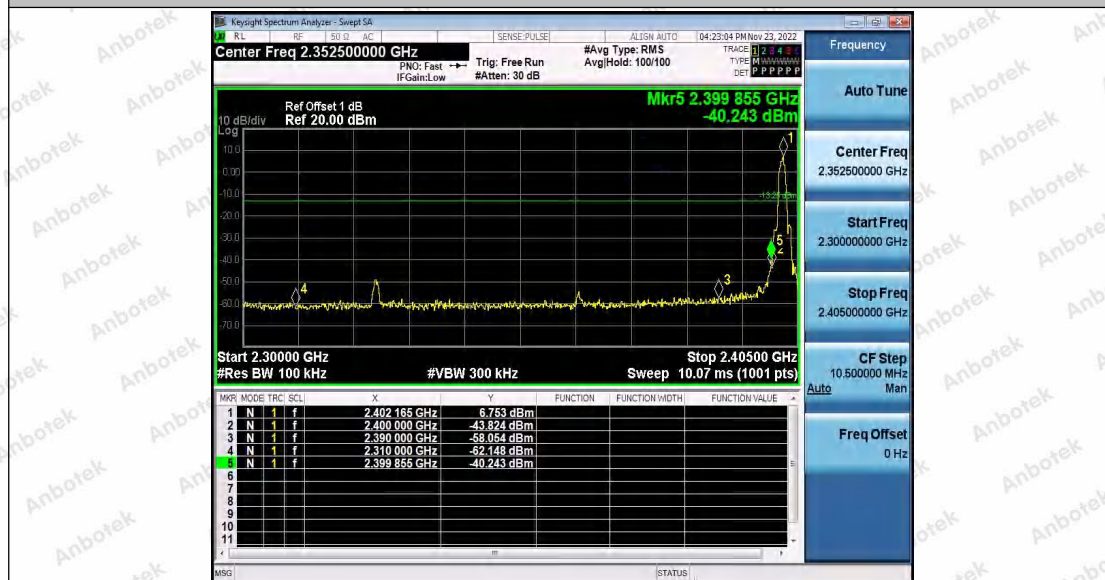




DH5\_Ant1\_High\_Hop\_2480



2DH5\_Ant1\_Low\_2402



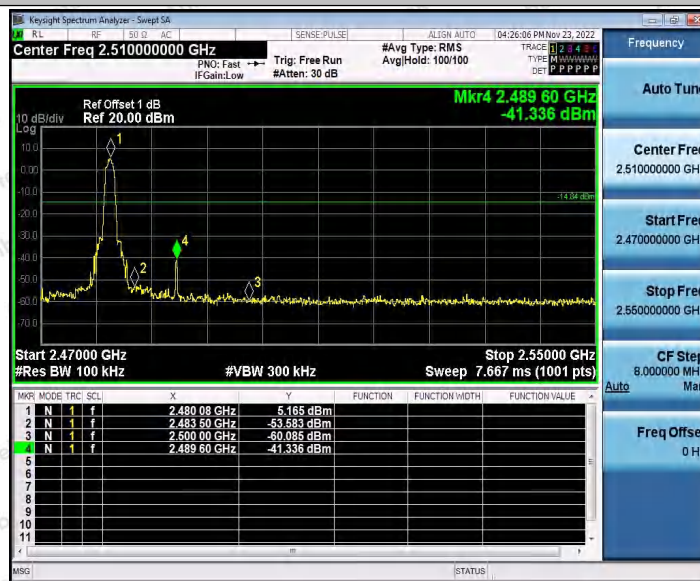
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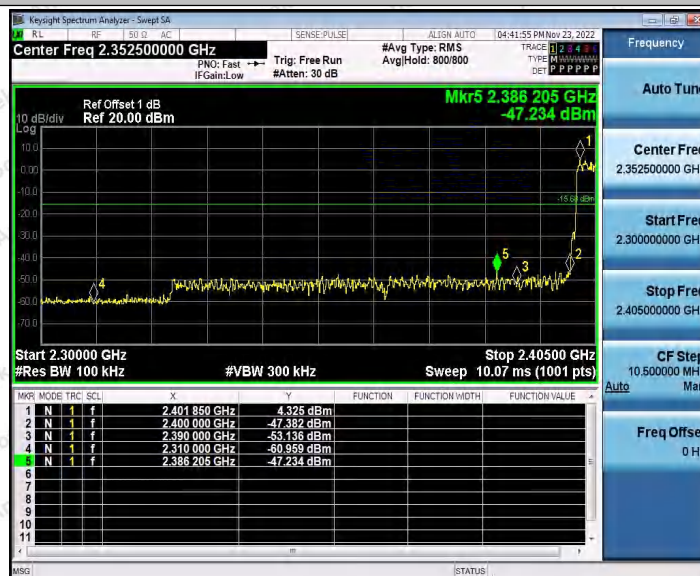
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## 2DH5\_Ant1\_High\_2480



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



## 2DH5\_Ant1\_High\_Hop\_2480

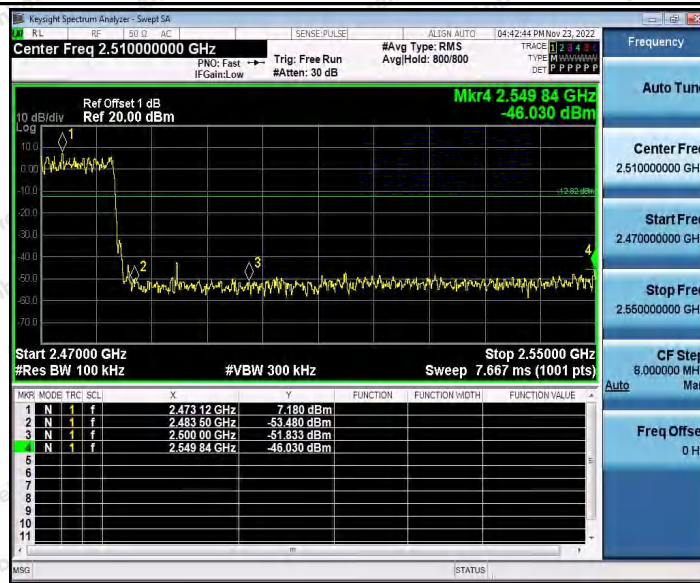
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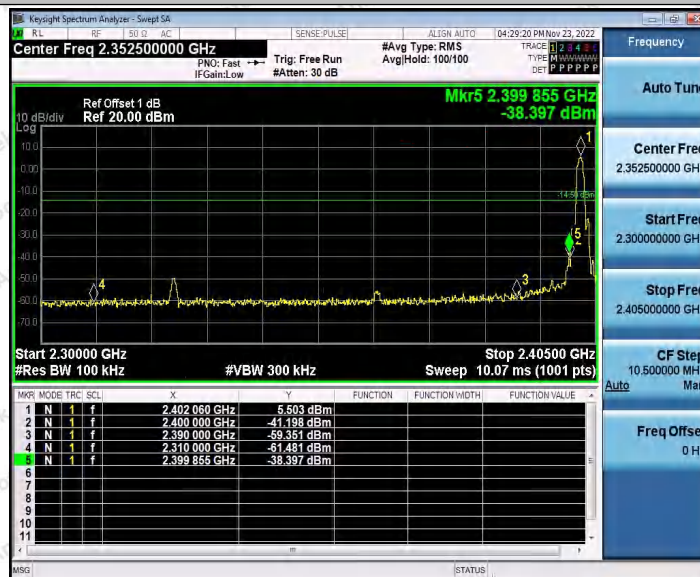


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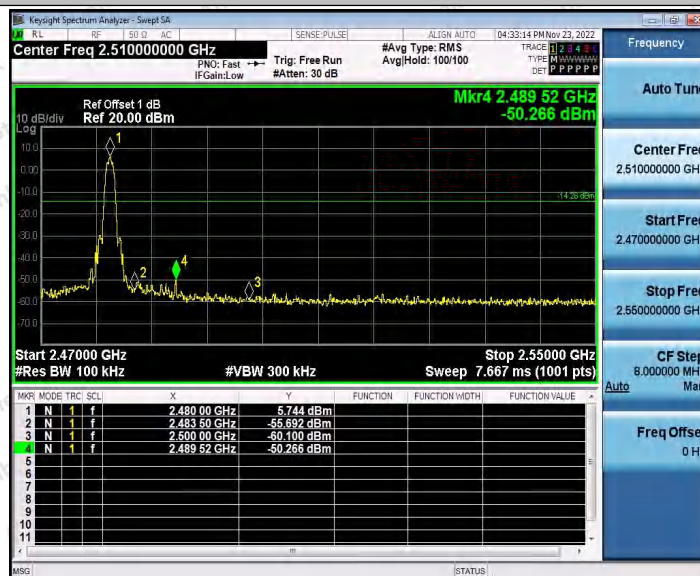




3DH5\_Ant1\_Low\_2402



3DH5\_Ant1\_High\_2480



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## Appendix H: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Channel | Freq Range [MHz] | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|---------|------------------|-----------------|--------------|-------------|---------|
| DH5       | Ant1    | 2402    | Reference        | 9.00            | 9.00         | ---         | PASS    |
|           |         |         | 30~1000          | 9.00            | -68.93       | ≤-11        | PASS    |
|           |         |         | 1000~26500       | 9.00            | -50.73       | ≤-11        | PASS    |
|           |         | 2441    | Reference        | 6.02            | 6.02         | ---         | PASS    |
|           |         |         | 30~1000          | 6.02            | -68.84       | ≤-13.98     | PASS    |
|           |         |         | 1000~26500       | 6.02            | -50.73       | ≤-13.98     | PASS    |
|           |         | 2480    | Reference        | 10.14           | 10.14        | ---         | PASS    |
|           |         |         | 30~1000          | 10.14           | -67.74       | ≤-9.86      | PASS    |
|           |         |         | 1000~26500       | 10.14           | -49.42       | ≤-9.86      | PASS    |
| 2DH5      | Ant1    | 2402    | Reference        | 4.04            | 4.04         | ---         | PASS    |
|           |         |         | 30~1000          | 4.04            | -67.69       | ≤-15.96     | PASS    |
|           |         |         | 1000~26500       | 4.04            | -51.45       | ≤-15.96     | PASS    |
|           |         | 2441    | Reference        | 4.69            | 4.69         | ---         | PASS    |
|           |         |         | 30~1000          | 4.69            | -68.63       | ≤-15.31     | PASS    |
|           |         |         | 1000~26500       | 4.69            | -51.13       | ≤-15.31     | PASS    |
|           |         | 2480    | Reference        | 4.22            | 4.22         | ---         | PASS    |
|           |         |         | 30~1000          | 4.22            | -68.06       | ≤-15.78     | PASS    |
|           |         |         | 1000~26500       | 4.22            | -50.95       | ≤-15.78     | PASS    |
| 3DH5      | Ant1    | 2402    | Reference        | 6.61            | 6.61         | ---         | PASS    |
|           |         |         | 30~1000          | 6.61            | -68.71       | ≤-13.39     | PASS    |
|           |         |         | 1000~26500       | 6.61            | -52.67       | ≤-13.39     | PASS    |
|           |         | 2441    | Reference        | 5.08            | 5.08         | ---         | PASS    |
|           |         |         | 30~1000          | 5.08            | -69.48       | ≤-14.92     | PASS    |
|           |         |         | 1000~26500       | 5.08            | -52.38       | ≤-14.92     | PASS    |
|           |         | 2480    | Reference        | 4.58            | 4.58         | ---         | PASS    |
|           |         |         | 30~1000          | 4.58            | -68.58       | ≤-15.42     | PASS    |
|           |         |         | 1000~26500       | 4.58            | -50.93       | ≤-15.42     | PASS    |

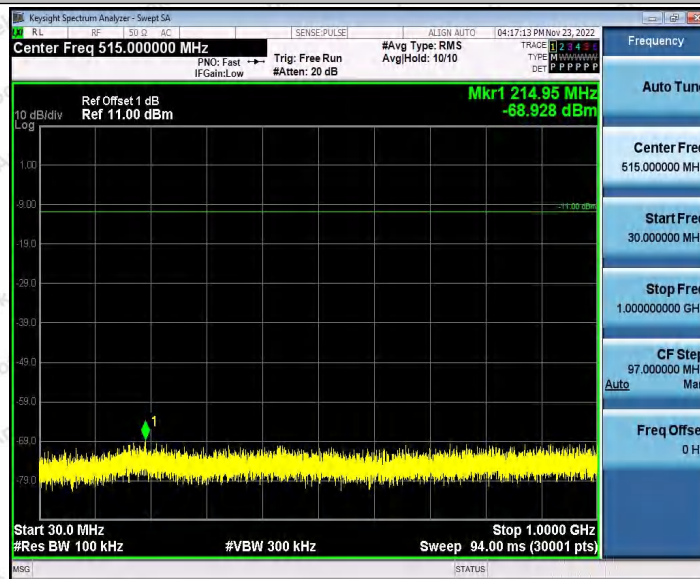


## Test Graphs

DH5\_Ant1\_2402\_0~Reference



DH5\_Ant1\_2402\_30~1000



DH5\_Ant1\_2402\_1000~26500

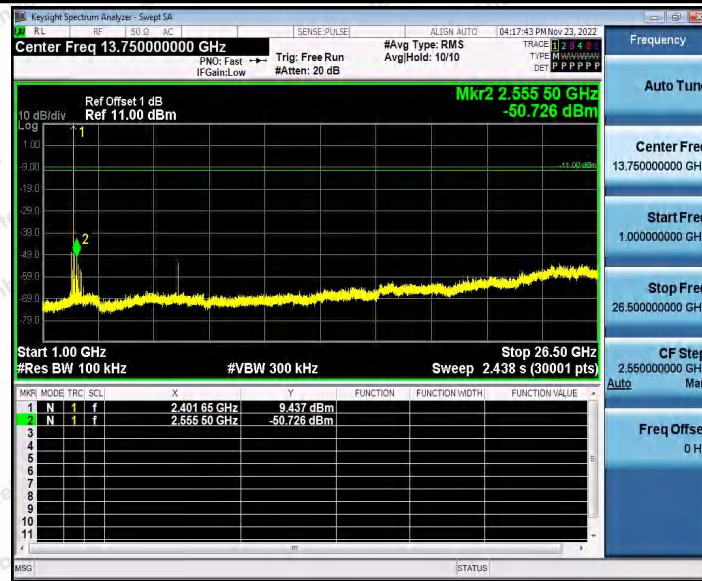
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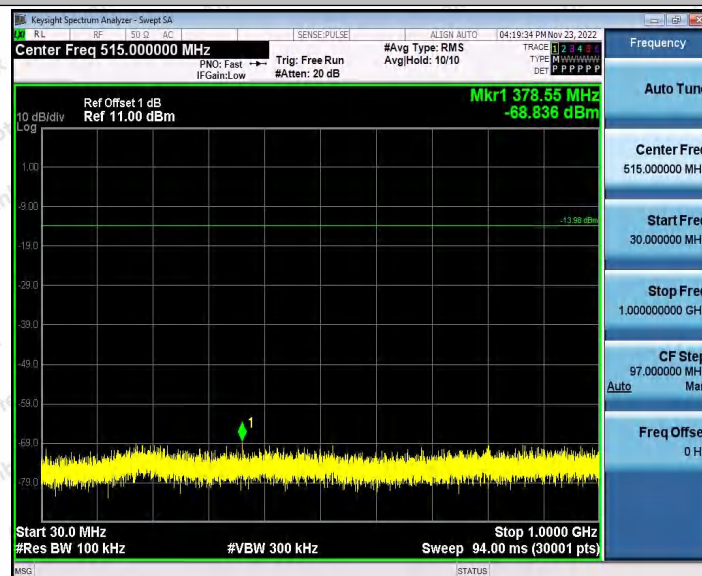




DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



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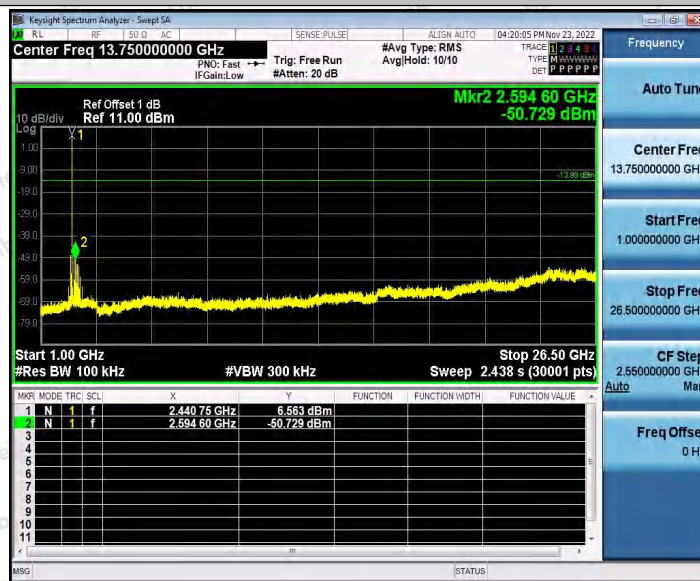
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## DH5\_Ant1\_2441\_1000~26500



## DH5\_Ant1\_2480\_0~Reference



## DH5\_Ant1\_2480\_30~1000

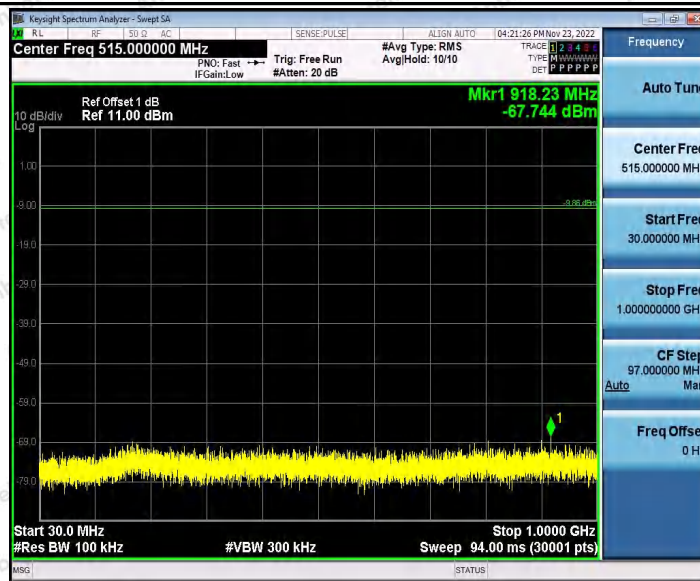
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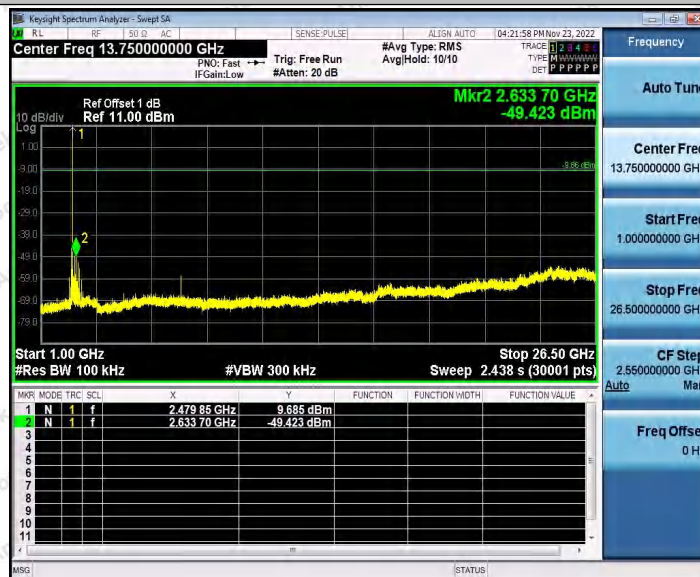


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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference



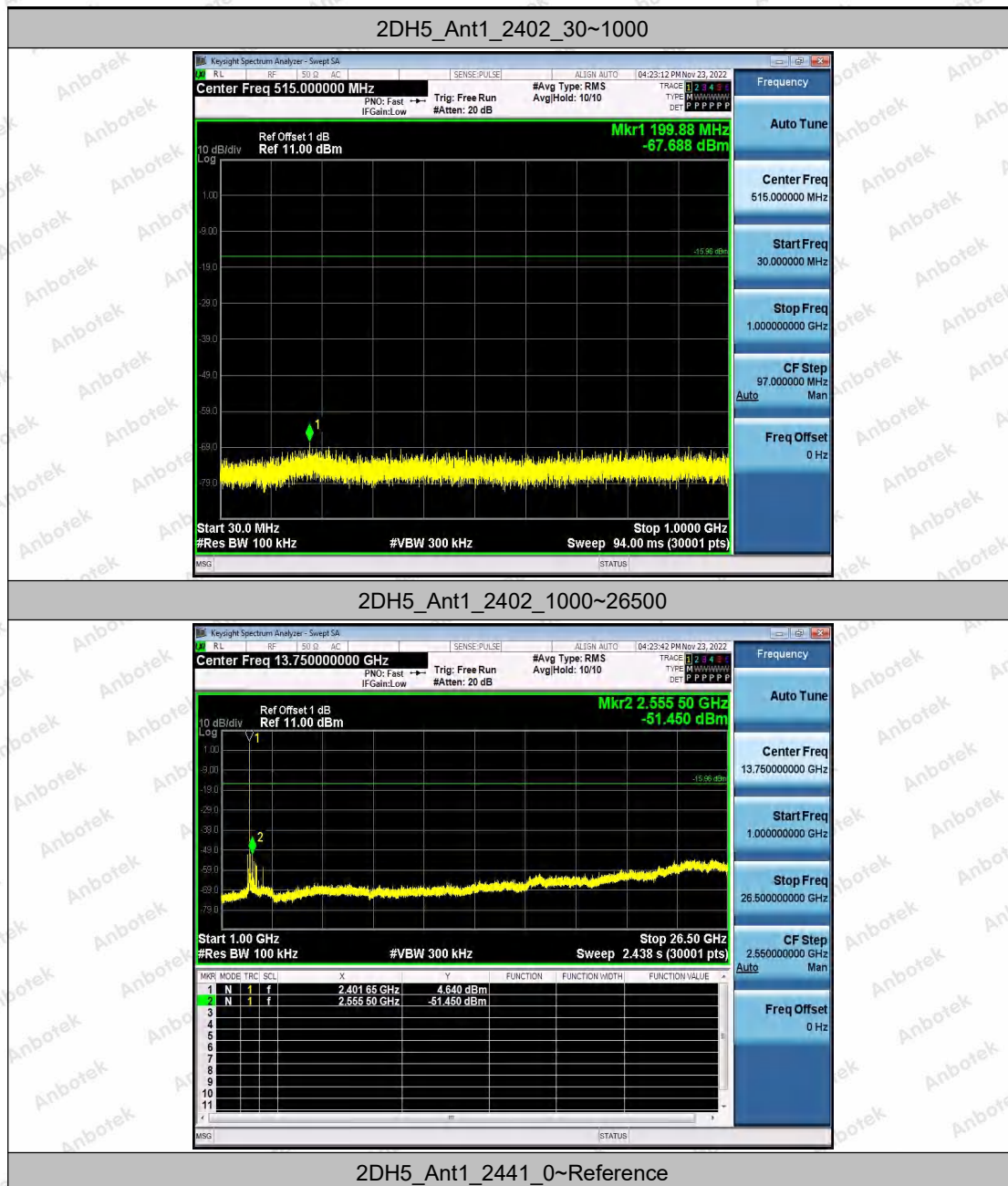
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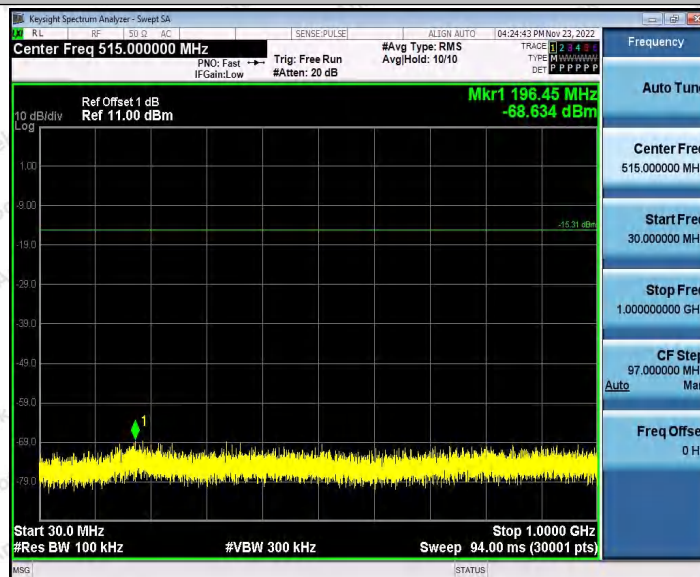


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2DH5\_Ant1\_2441\_30~1000



2DH5\_Ant1\_2441\_1000~26500



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## 2DH5\_Ant1\_2480\_0~Reference



## 2DH5\_Ant1\_2480\_30~1000



## 2DH5\_Ant1\_2480\_1000~26500

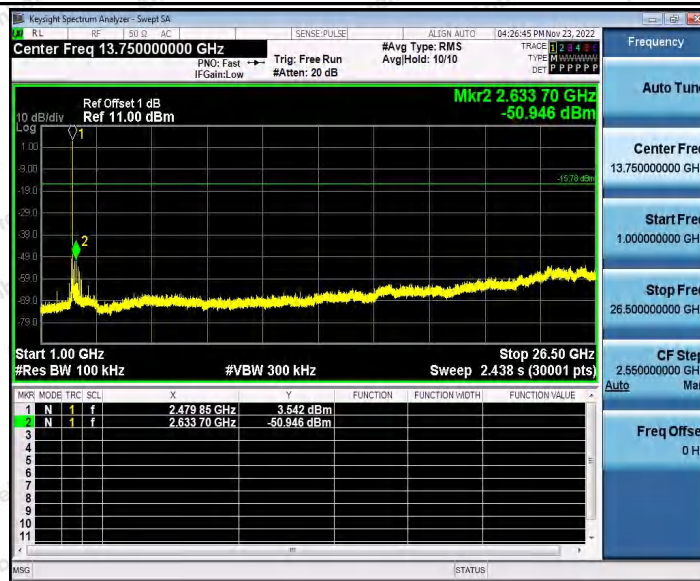
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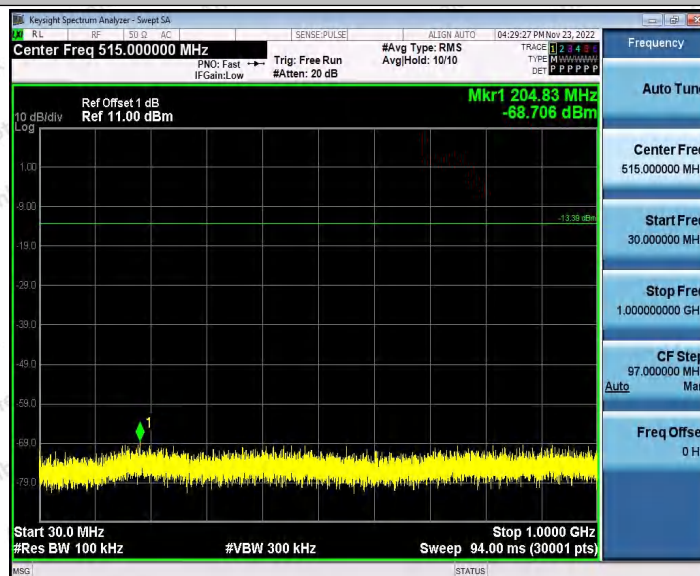




3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000



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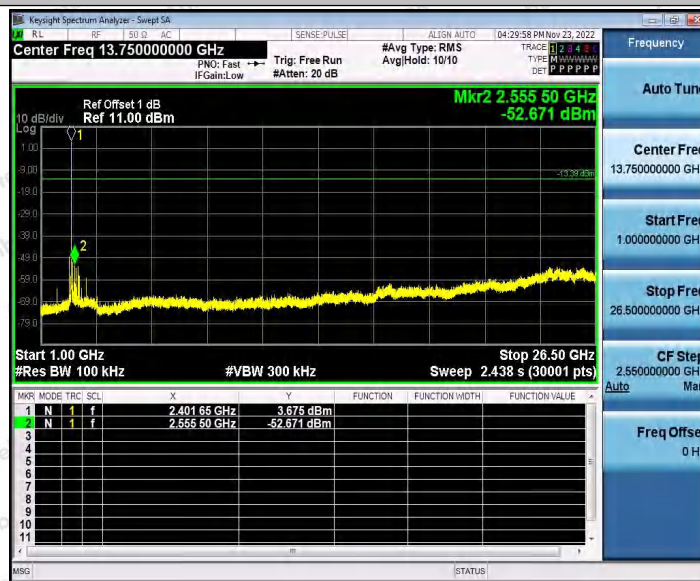
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## 3DH5\_Ant1\_2402\_1000~26500



## 3DH5\_Ant1\_2441\_0~Reference



## 3DH5\_Ant1\_2441\_30~1000

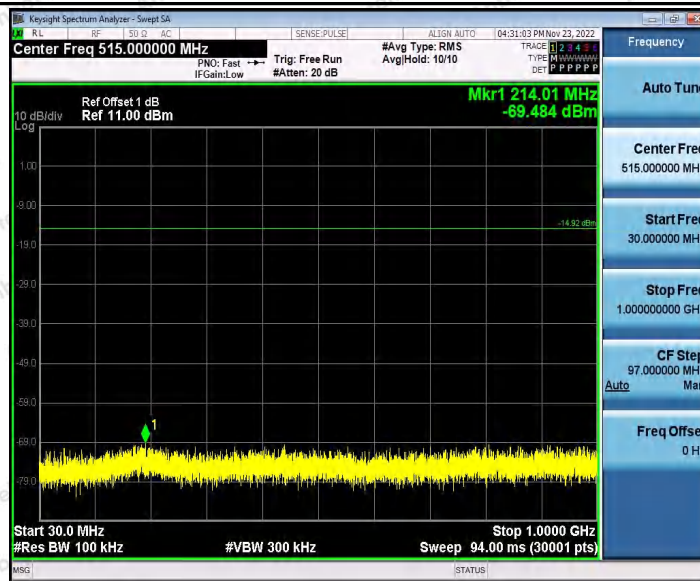
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3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference



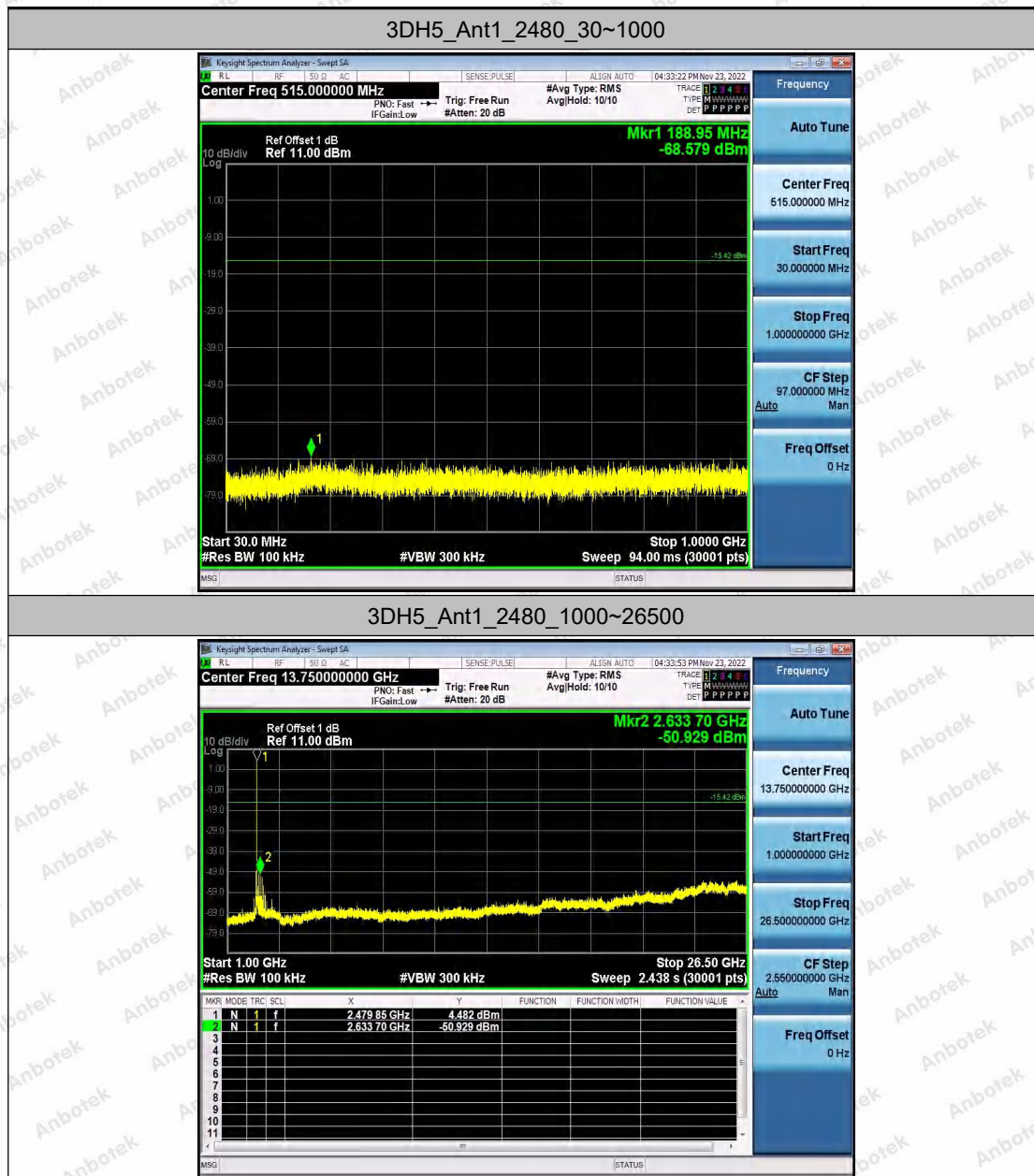
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## Appendix I: Duty Cycle

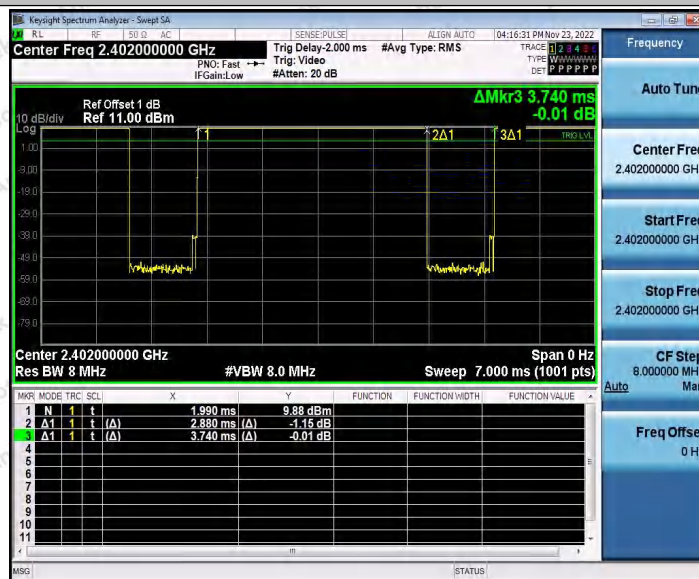
### Test Result

| Test Mode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | X      | DC [%] | x Factor |
|-----------|---------|---------|-----------------|----------------|--------|--------|----------|
| DH5       | Ant1    | 2402    | 2.88            | 3.74           | 0.7701 | 77.01  | 1.13     |
|           |         | 2441    | 2.88            | 3.75           | 0.7680 | 76.80  | 1.15     |
|           |         | 2480    | 2.89            | 3.75           | 0.7707 | 77.07  | 1.13     |
| 2DH5      | Ant1    | 2402    | 2.89            | 3.75           | 0.7707 | 77.07  | 1.13     |
|           |         | 2441    | 2.89            | 3.76           | 0.7686 | 76.86  | 1.14     |
|           |         | 2480    | 2.89            | 3.75           | 0.7707 | 77.07  | 1.13     |
| 3DH5      | Ant1    | 2402    | 0.14            | 0.15           | 0.9333 | 93.33  | 0.30     |
|           |         | 2441    | 2.89            | 3.74           | 0.7727 | 77.27  | 1.12     |
|           |         | 2480    | 2.89            | 3.75           | 0.7707 | 77.07  | 1.13     |

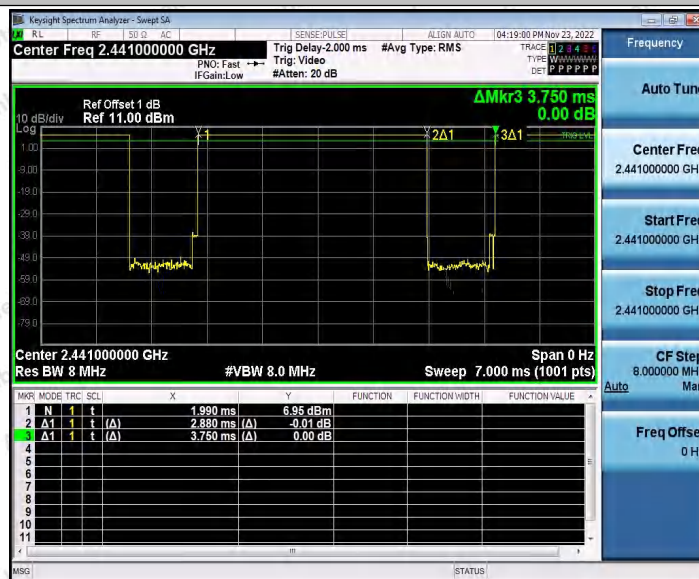


## Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480

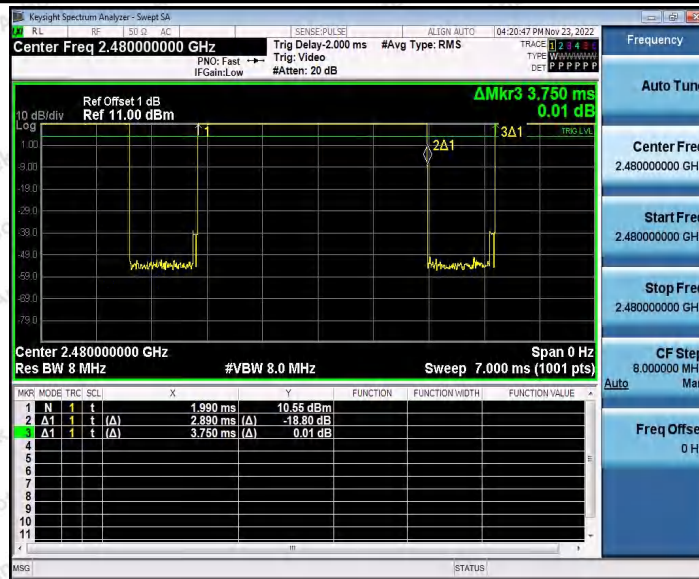
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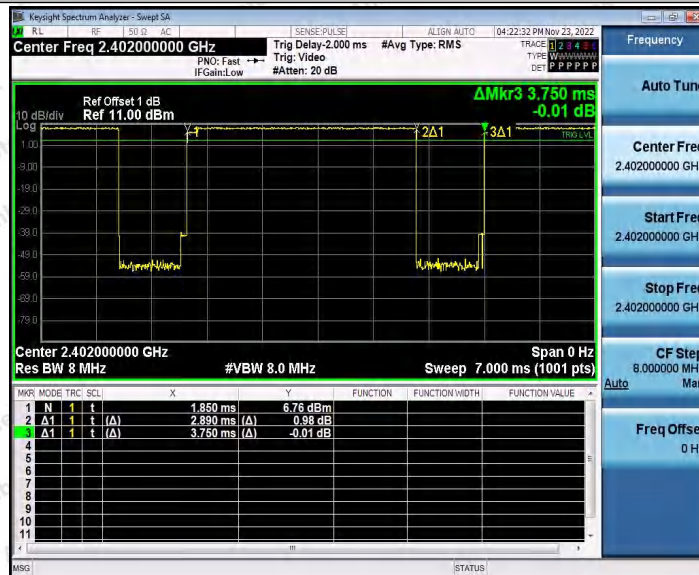


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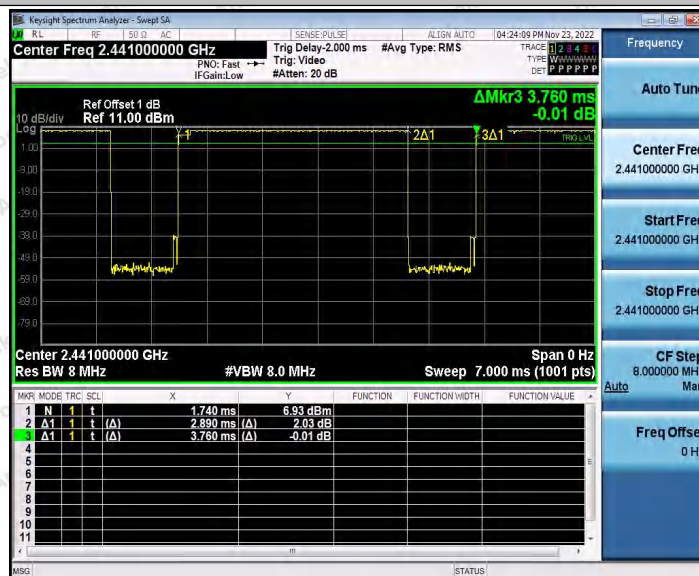




2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



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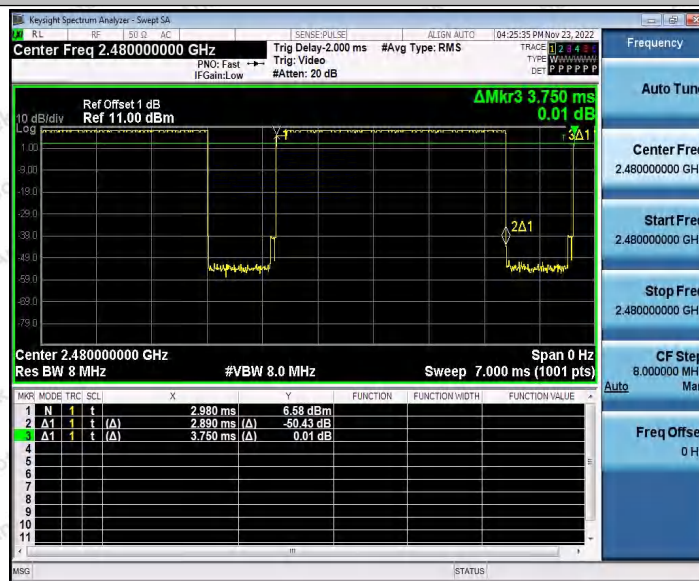
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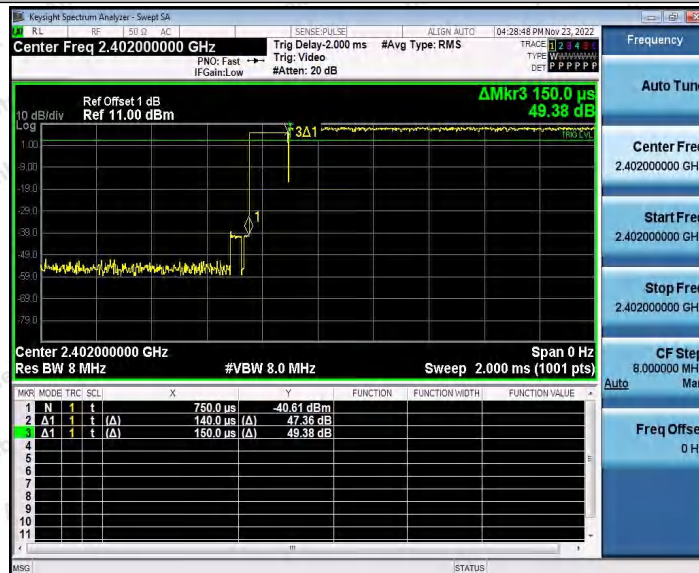
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## 2DH5\_Ant1\_2480



## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441

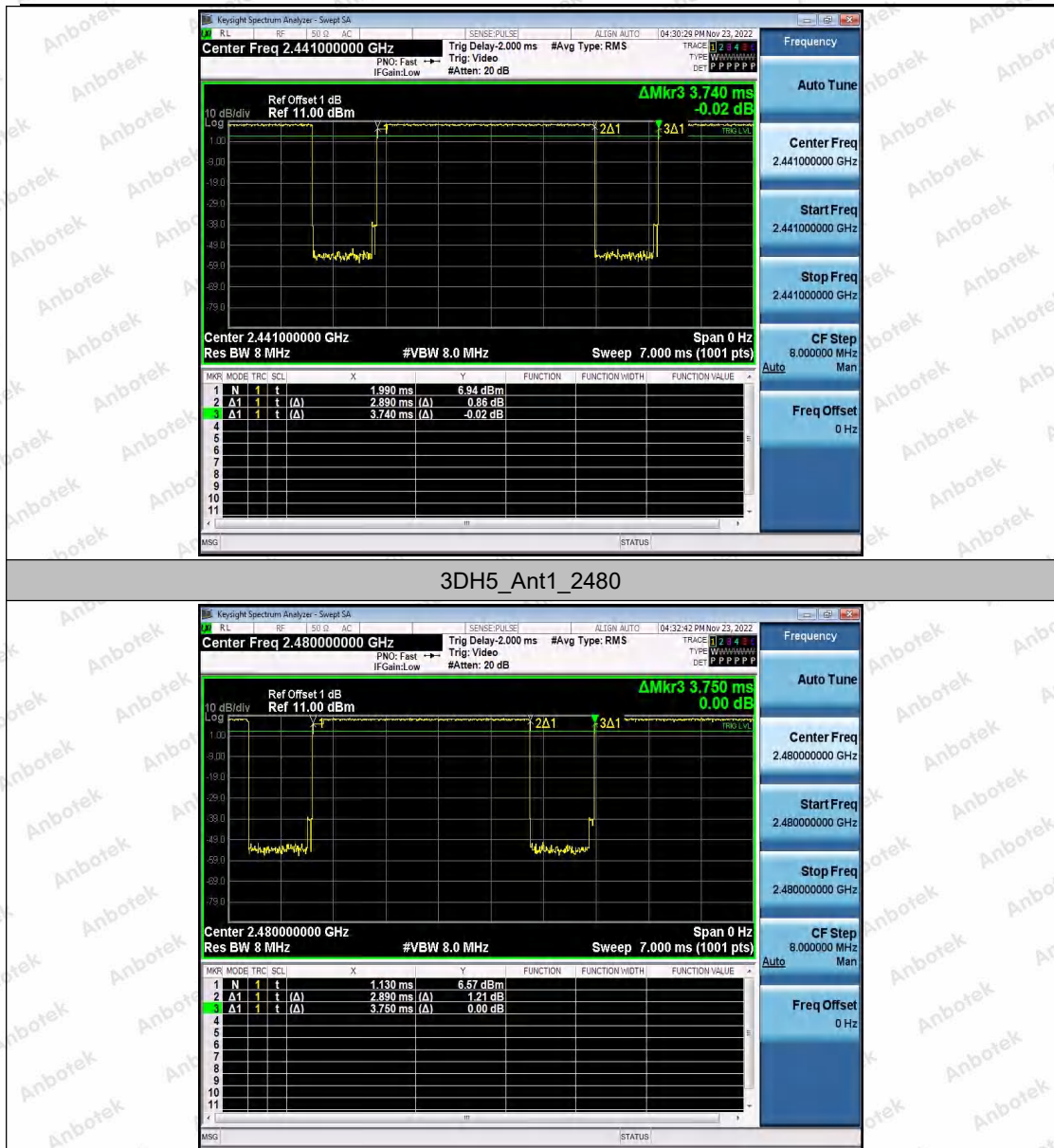
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