

|                                                       |                                          |
|-------------------------------------------------------|------------------------------------------|
| <b>Case No. :</b> <u>GTS20240604012-1-01</u>          |                                          |
| <b>Ambient Condition:</b> <u>23</u> °C, <u>52</u> %RH |                                          |
| <b>According Standard:</b> ■Part15C                   |                                          |
| <b>Test Date:</b> <u>2025.1.3</u>                     | <b>Test Engineer:</b> <u>Evan ouyang</u> |

## Appendix A.1: 20dB Emission Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | 20dB<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|-----------|------------------|----------|----------|------------|---------|
| DH1      | Ant1    | 2402      | 0.948            | 2401.559 | 2402.507 | ---        | ---     |
|          |         | 2441      | 0.957            | 2440.556 | 2441.513 | ---        | ---     |
|          |         | 2480      | 0.939            | 2479.562 | 2480.501 | ---        | ---     |
| 2DH1     | Ant1    | 2402      | 1.320            | 2401.346 | 2402.666 | ---        | ---     |
|          |         | 2441      | 1.296            | 2440.367 | 2441.663 | ---        | ---     |
|          |         | 2480      | 1.254            | 2479.379 | 2480.633 | ---        | ---     |
| 3DH1     | Ant1    | 2402      | 1.254            | 2401.385 | 2402.639 | ---        | ---     |
|          |         | 2441      | 1.254            | 2440.385 | 2441.639 | ---        | ---     |
|          |         | 2480      | 1.224            | 2479.418 | 2480.642 | ---        | ---     |

## Test Graphs

DH1\_Ant1\_2402



DH1\_Ant1\_2441



DH1\_Ant1\_2480



## 2DH1\_Ant1\_2480



## 3DH1\_Ant1\_2402



## 3DH1\_Ant1\_2441



3DH1\_Ant1\_2480



## Appendix A.2: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------|-----------|-----------|------------|---------|
| DH1      | Ant1    | 2402      | 0.81314   | 2401.6133 | 2402.4265 | ---        | ---     |
|          |         | 2441      | 0.83110   | 2440.6033 | 2441.4344 | ---        | ---     |
|          |         | 2480      | 0.81528   | 2479.6098 | 2480.4250 | ---        | ---     |
| 2DH1     | Ant1    | 2402      | 1.1488    | 2401.4378 | 2402.5866 | ---        | ---     |
|          |         | 2441      | 1.1597    | 2440.4338 | 2441.5935 | ---        | ---     |
|          |         | 2480      | 1.1604    | 2479.4302 | 2480.5906 | ---        | ---     |
| 3DH1     | Ant1    | 2402      | 1.1517    | 2401.4517 | 2402.6034 | ---        | ---     |
|          |         | 2441      | 1.1482    | 2440.4540 | 2441.6022 | ---        | ---     |
|          |         | 2480      | 1.1433    | 2479.4533 | 2480.5966 | ---        | ---     |

## Test Graphs

DH1\_Ant1\_2402



DH1\_Ant1\_2441



DH1\_Ant1\_2480



2DH1\_Ant1\_2402



2DH1\_Ant1\_2441



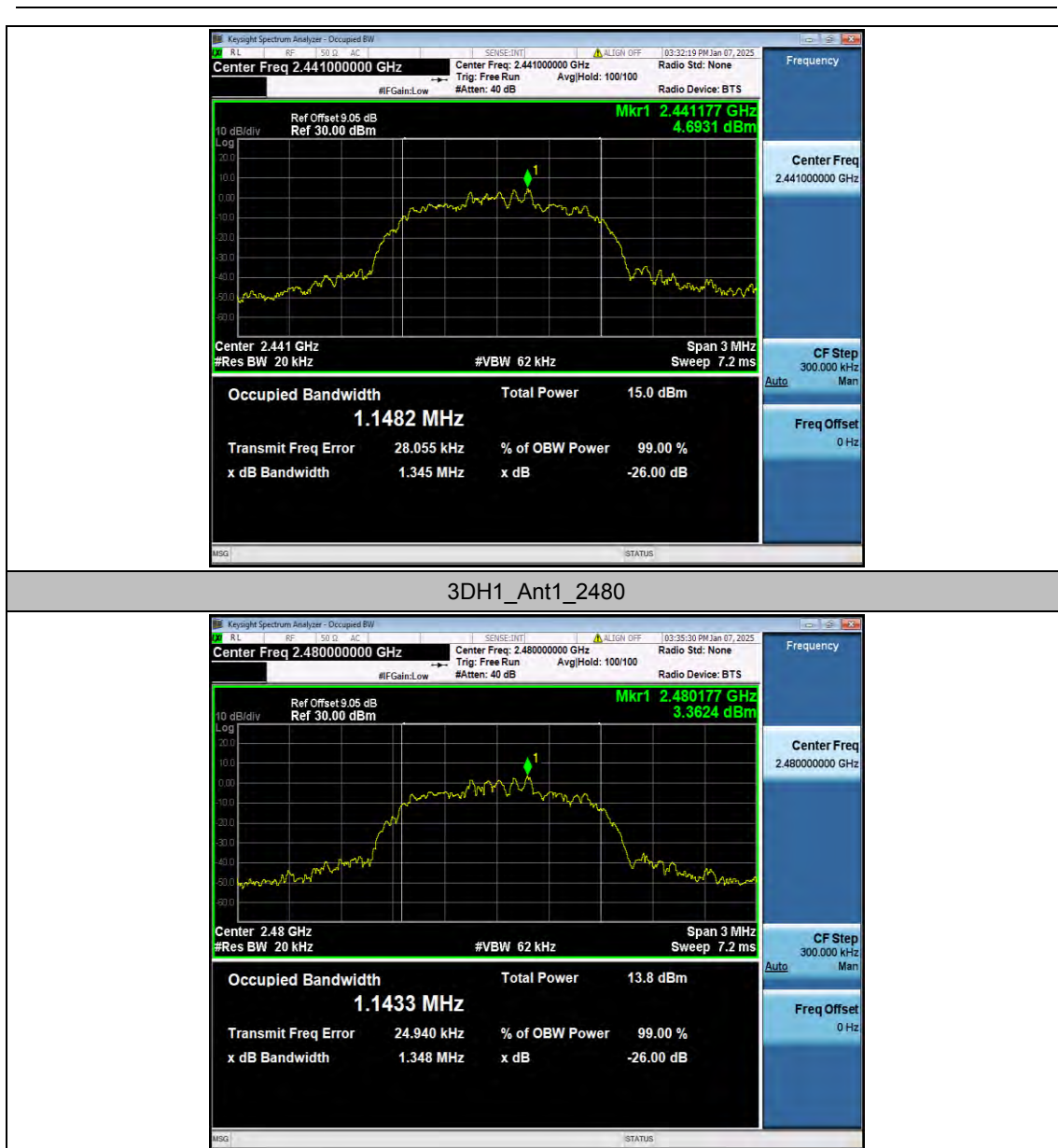
## 2DH1\_Ant1\_2480



## 3DH1\_Ant1\_2402



## 3DH1\_Ant1\_2441



## Appendix A.3: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Freq(MHz) | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------|---------------------------|----------------------|---------|
| DH1       | Ant1    | 2402      | 8.48                      | ≤20.97               | PASS    |
|           |         | 2441      | 11.07                     | ≤20.97               | PASS    |
|           |         | 2480      | 7.80                      | ≤20.97               | PASS    |
| 2DH1      | Ant1    | 2402      | 9.49                      | ≤20.97               | PASS    |
|           |         | 2441      | 11.09                     | ≤20.97               | PASS    |
|           |         | 2480      | 8.87                      | ≤20.97               | PASS    |
| 3DH1      | Ant1    | 2402      | 11.13                     | ≤20.97               | PASS    |
|           |         | 2441      | 10.67                     | ≤20.97               | PASS    |
|           |         | 2480      | 9.41                      | ≤20.97               | PASS    |

## Appendix A.4: Carrier frequency separation

### Test Result

| TestMode | Antenna | Freq(MHz) | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|-----------|-------------|--------------|---------|
| DH1      | Ant1    | Hop_2402  | 0.986       | $\geq 0.638$ | PASS    |
|          |         | Hop_2441  | 0.994       | $\geq 0.638$ | PASS    |
|          |         | Hop_2480  | 0.84        | $\geq 0.638$ | PASS    |
| 2DH1     | Ant1    | Hop_2402  | 0.986       | $\geq 0.880$ | PASS    |
|          |         | Hop_2441  | 1.008       | $\geq 0.880$ | PASS    |
|          |         | Hop_2480  | 1.018       | $\geq 0.880$ | PASS    |
| 3DH1     | Ant1    | Hop_2402  | 1.002       | $\geq 0.836$ | PASS    |
|          |         | Hop_2441  | 1.166       | $\geq 0.836$ | PASS    |
|          |         | Hop_2480  | 0.994       | $\geq 0.836$ | PASS    |

## Test Graphs

DH1\_Ant1\_Hop\_2402



DH1\_Ant1\_Hop\_2441



DH1\_Ant1\_Hop\_2480



2DH1\_Ant1\_Hop\_2402



2DH1\_Ant1\_Hop\_2441



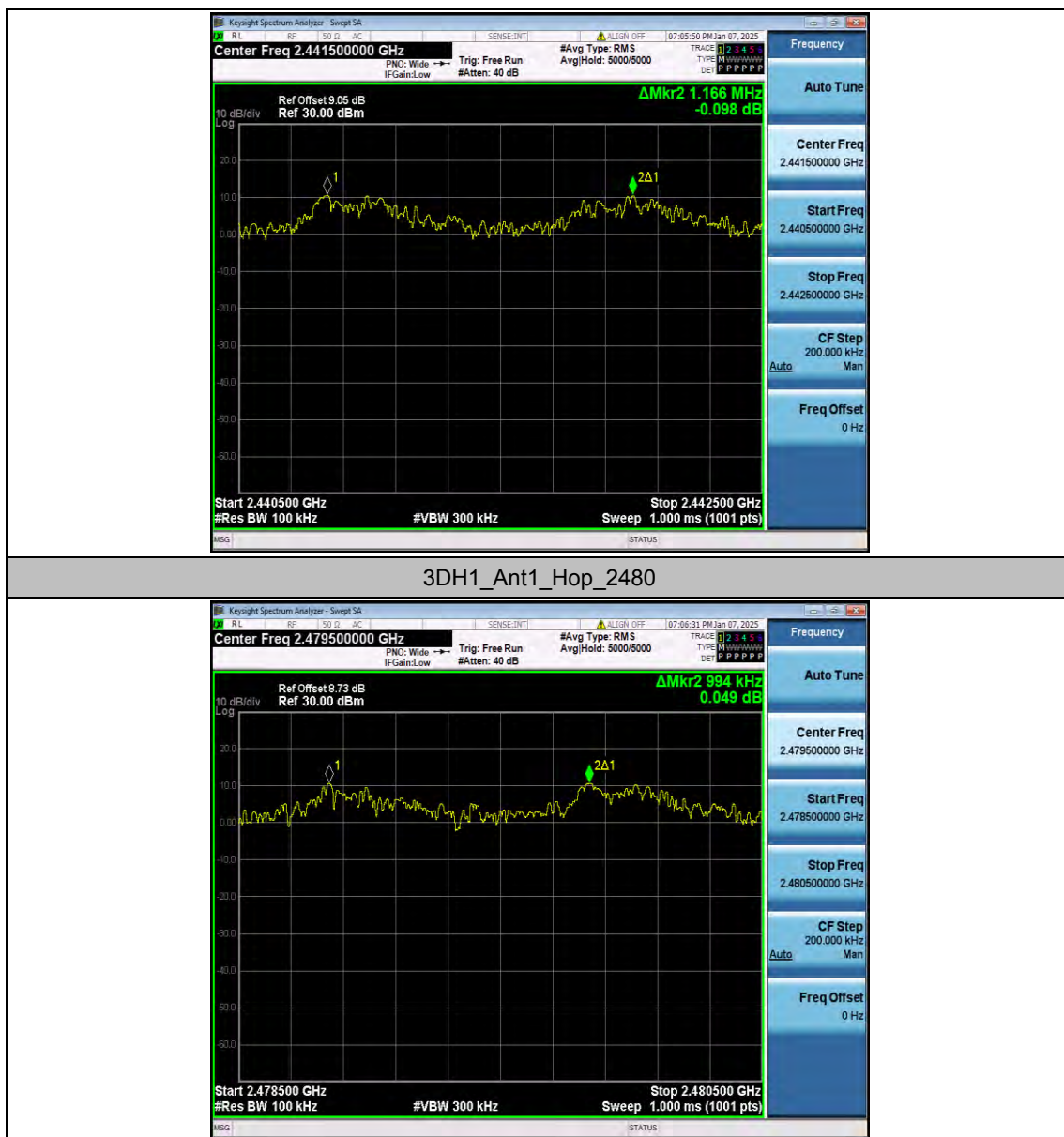
## 2DH1\_Ant1\_Hop\_2480



## 3DH1\_Ant1\_Hop\_2402



## 3DH1\_Ant1\_Hop\_2441

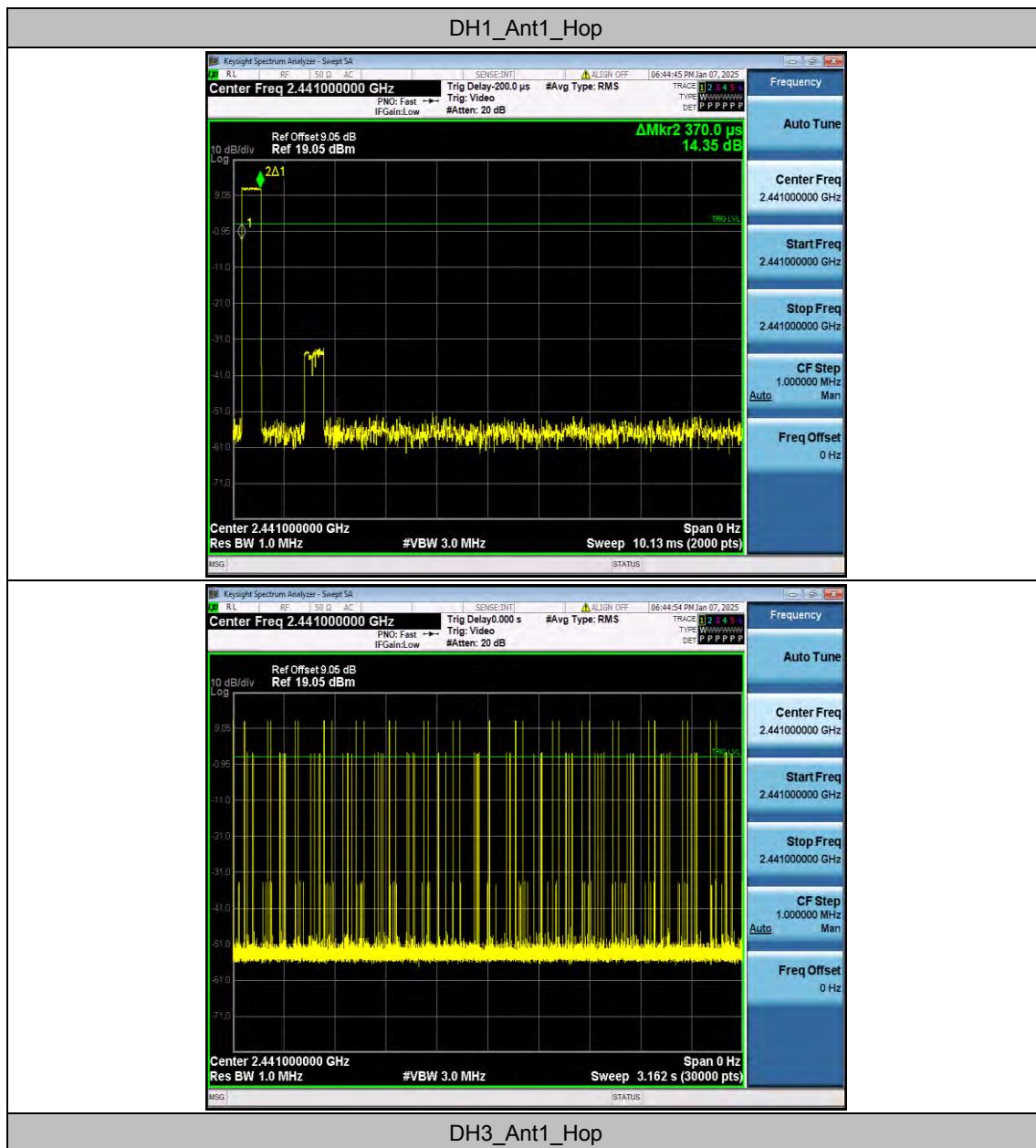


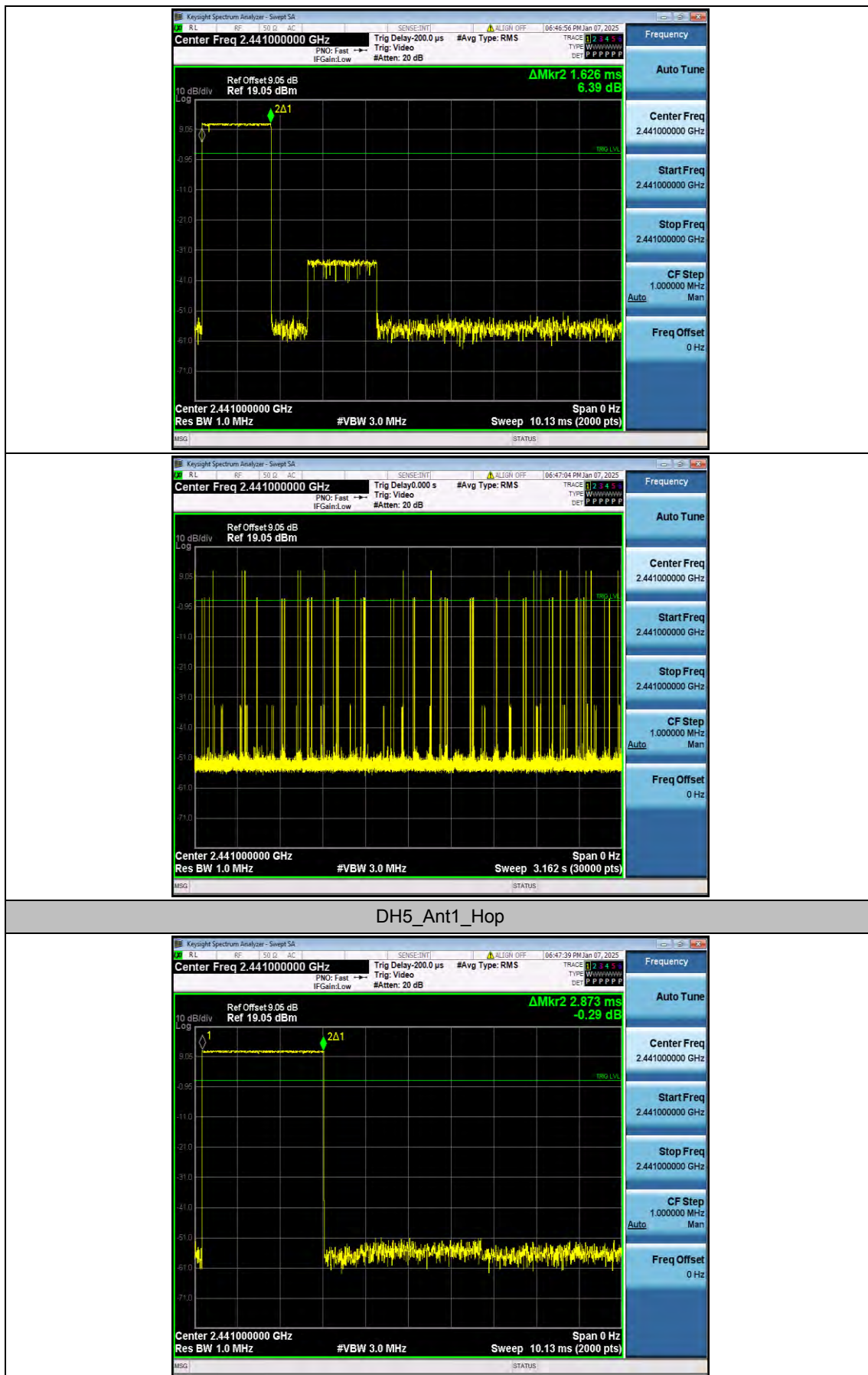
## Appendix A.5: Time of occupancy

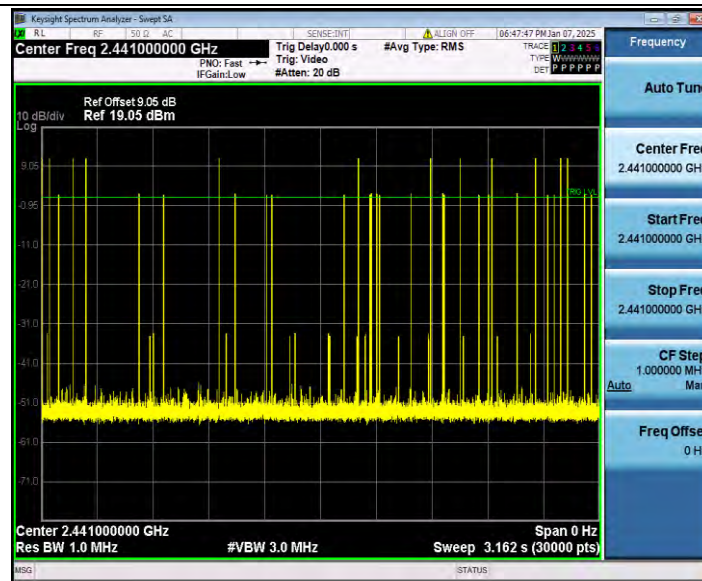
### Test Result

| TestMode | Antenna | Freq(MHz) | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|-----------|--------------------|--------------------|-----------|----------|---------|
| DH1      | Ant1    | Hop       | 0.370              | 320                | 0.118     | ≤0.4     | PASS    |
| DH3      | Ant1    | Hop       | 1.626              | 180                | 0.293     | ≤0.4     | PASS    |
| DH5      | Ant1    | Hop       | 2.873              | 120                | 0.345     | ≤0.4     | PASS    |
| 2DH1     | Ant1    | Hop       | 0.375              | 330                | 0.124     | ≤0.4     | PASS    |
| 2DH3     | Ant1    | Hop       | 1.626              | 160                | 0.26      | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop       | 2.873              | 120                | 0.345     | ≤0.4     | PASS    |
| 3DH1     | Ant1    | Hop       | 0.375              | 330                | 0.124     | ≤0.4     | PASS    |
| 3DH3     | Ant1    | Hop       | 1.626              | 180                | 0.293     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop       | 2.878              | 120                | 0.345     | ≤0.4     | PASS    |

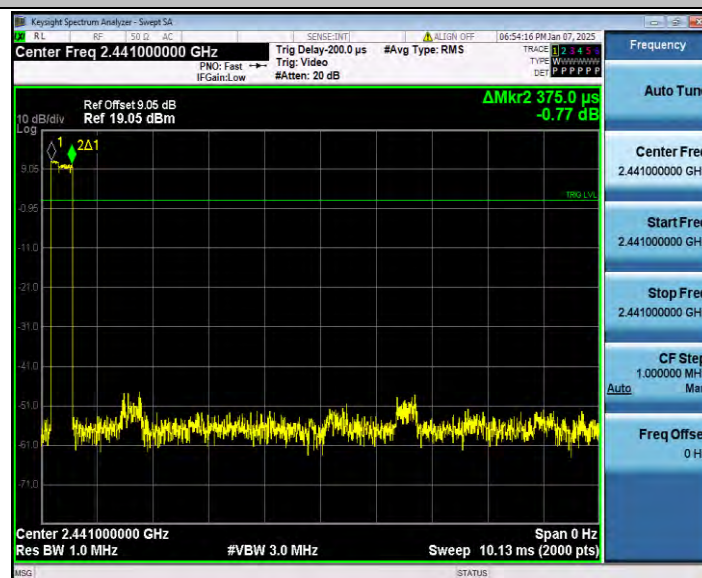
## Test Graphs



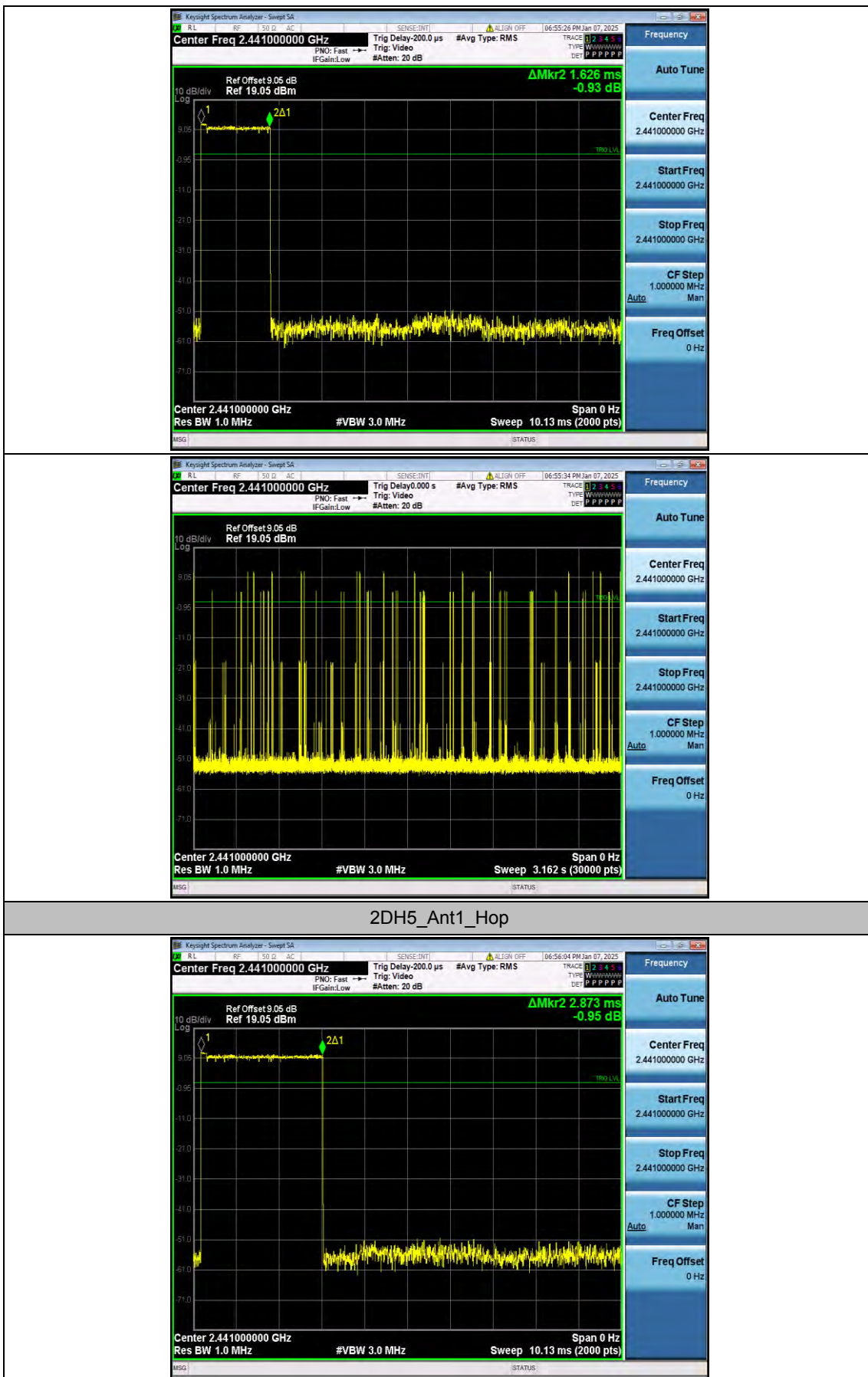


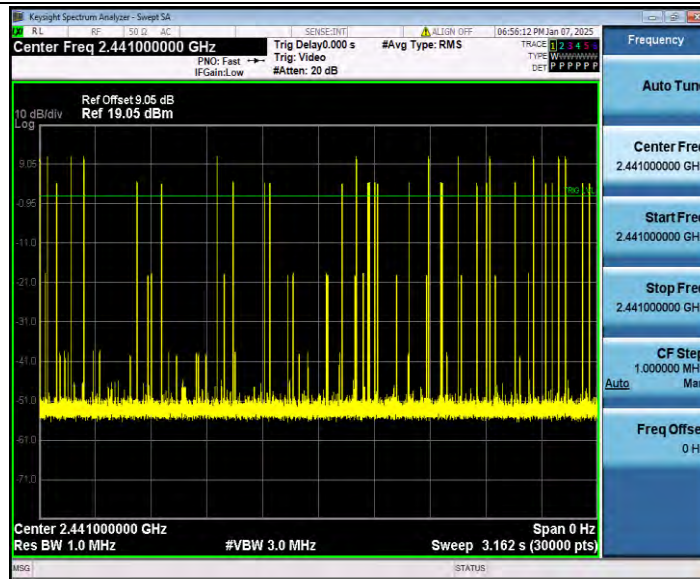


2DH1\_Ant1\_Hop

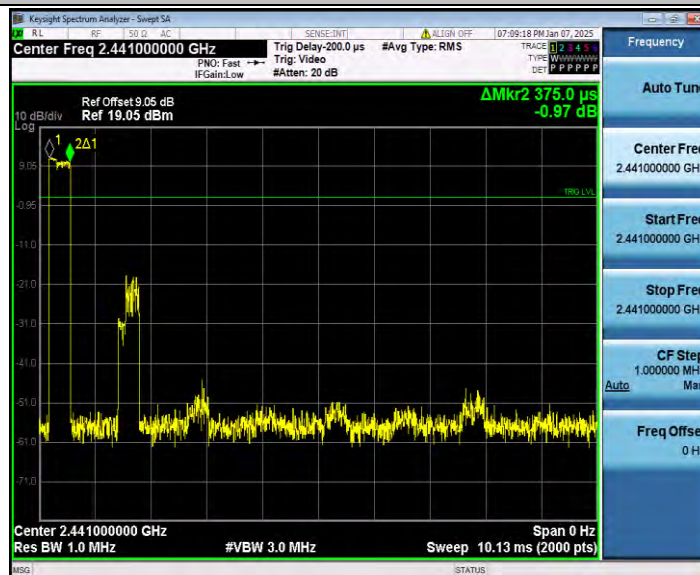


2DH3\_Ant1\_Hop

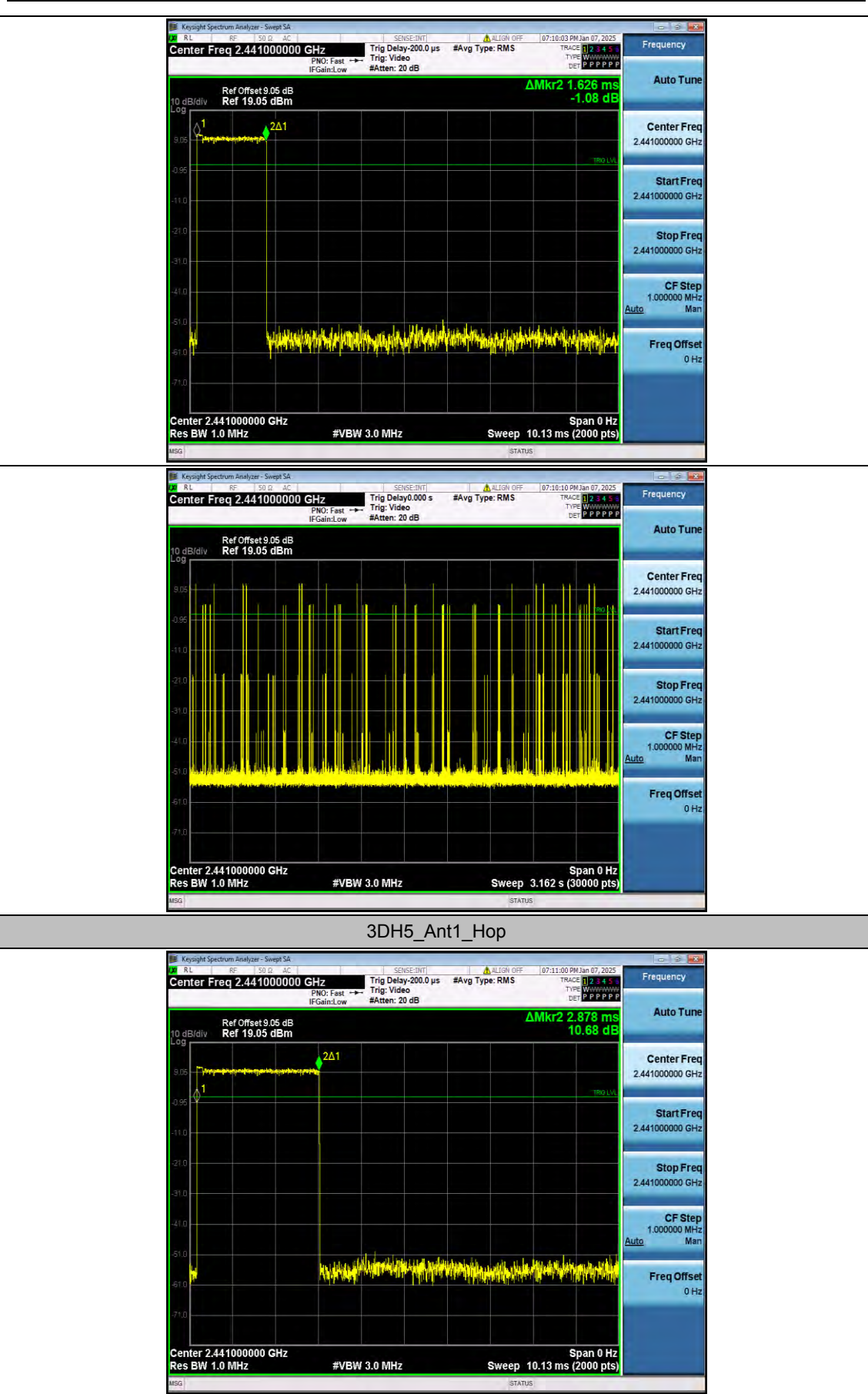




3DH1\_Ant1\_Hop



3DH3\_Ant1\_Hop



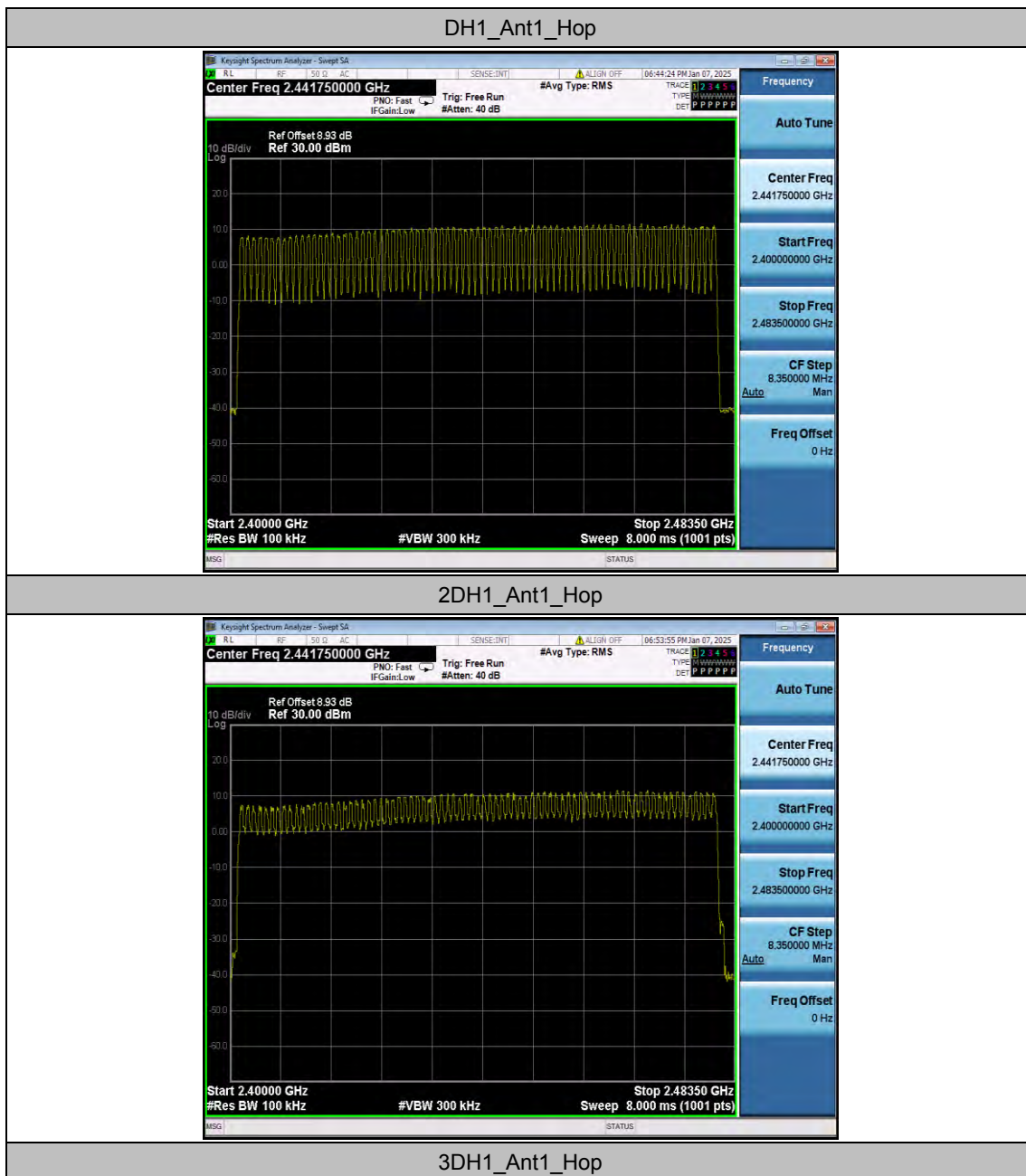


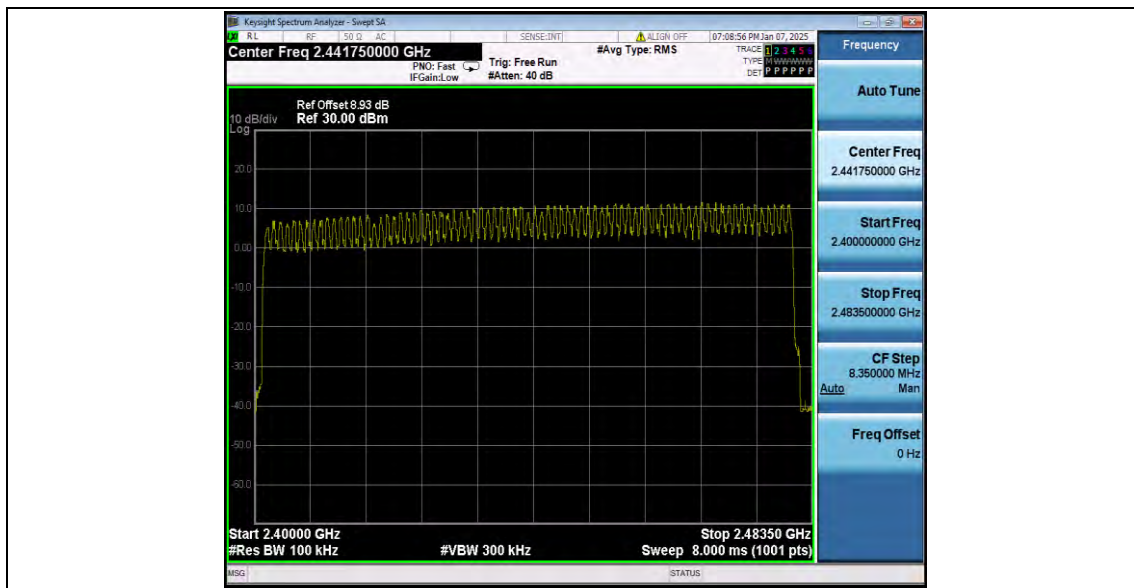
## Appendix A.6: Number of hopping channels

### Test Result

| TestMode | Antenna | Freq(MHz) | Result[Num] | Limit[Num] | Verdict |
|----------|---------|-----------|-------------|------------|---------|
| DH1      | Ant1    | Hop       | 79          | ≥15        | PASS    |
| 2DH1     | Ant1    | Hop       | 79          | ≥15        | PASS    |
| 3DH1     | Ant1    | Hop       | 79          | ≥15        | PASS    |

## Test Graphs





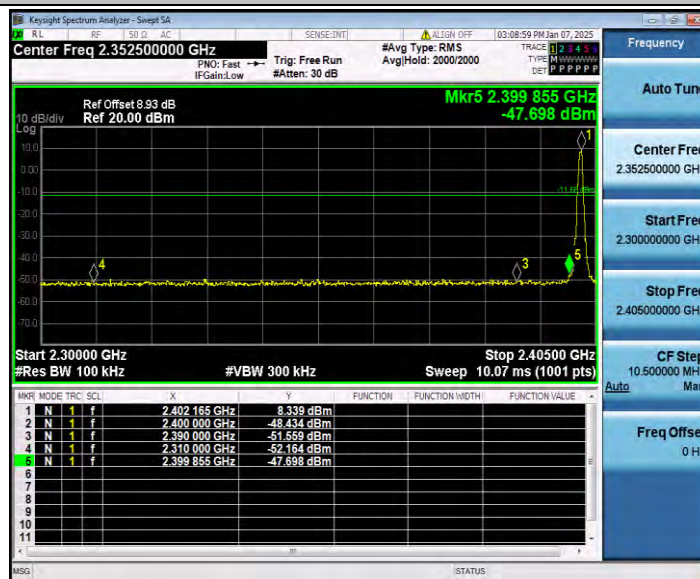
## Appendix A.7: Band edge measurements

### Test Result

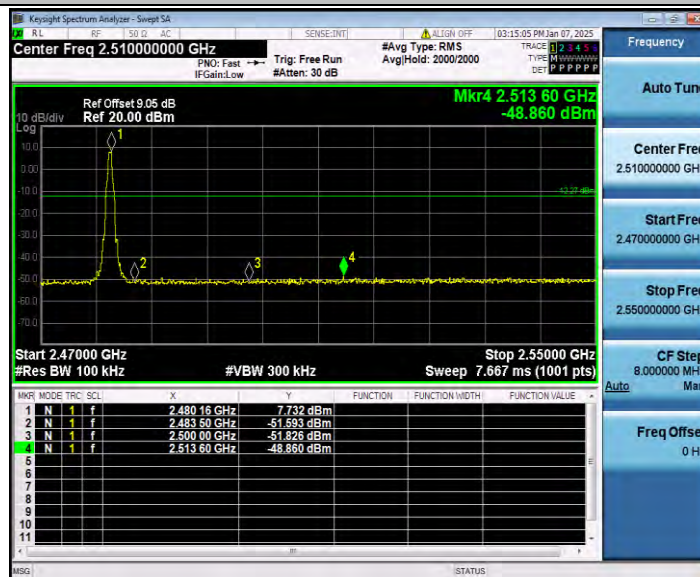
| TestMode | Antenna | ChName | Freq(MHz) | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|----------|---------|--------|-----------|----------------|--------------|---------------|---------|
| DH1      | Ant1    | Low    | 2402      | 8.34           | -47.7        | $\leq -11.66$ | PASS    |
|          |         | High   | 2480      | 7.73           | -48.86       | $\leq -12.27$ | PASS    |
|          |         | Low    | Hop_2402  | 7.30           | -35.42       | $\leq -12.71$ | PASS    |
|          |         | High   | Hop_2480  | 10.87          | -47.69       | $\leq -9.13$  | PASS    |
| 2DH1     | Ant1    | Low    | 2402      | 8.10           | -49.16       | $\leq -11.9$  | PASS    |
|          |         | High   | 2480      | 7.52           | -48.04       | $\leq -12.48$ | PASS    |
|          |         | Low    | Hop_2402  | 7.17           | -48.77       | $\leq -12.83$ | PASS    |
|          |         | High   | Hop_2480  | 10.80          | -48.15       | $\leq -9.2$   | PASS    |
| 3DH1     | Ant1    | Low    | 2402      | 8.19           | -48.45       | $\leq -11.81$ | PASS    |
|          |         | High   | 2480      | 7.61           | -48.88       | $\leq -12.39$ | PASS    |
|          |         | Low    | Hop_2402  | 6.63           | -48.96       | $\leq -13.37$ | PASS    |
|          |         | High   | Hop_2480  | 10.81          | -48.79       | $\leq -9.19$  | PASS    |

## Test Graphs

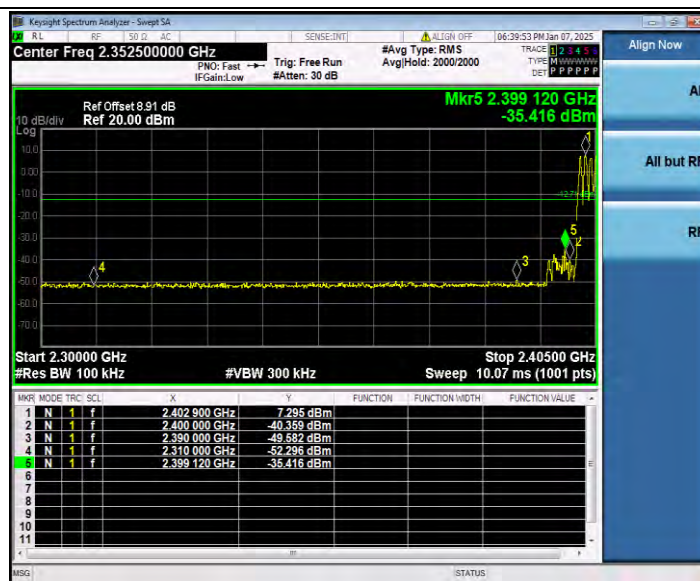
DH1\_Ant1\_Low\_2402



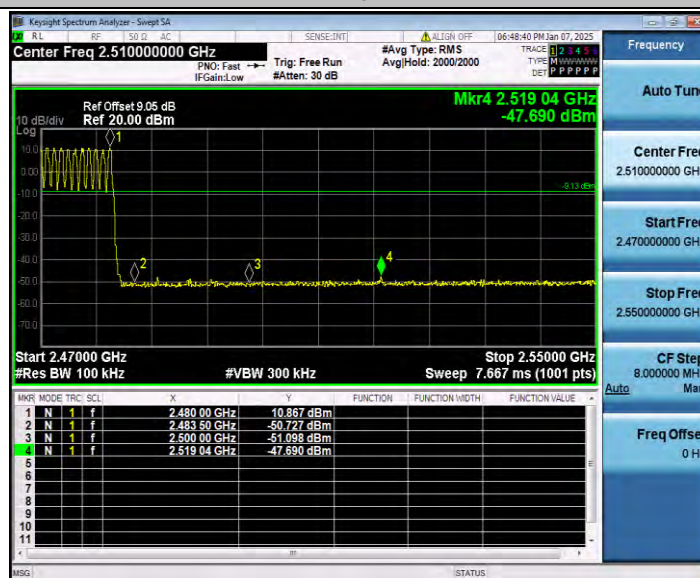
DH1\_Ant1\_High\_2480



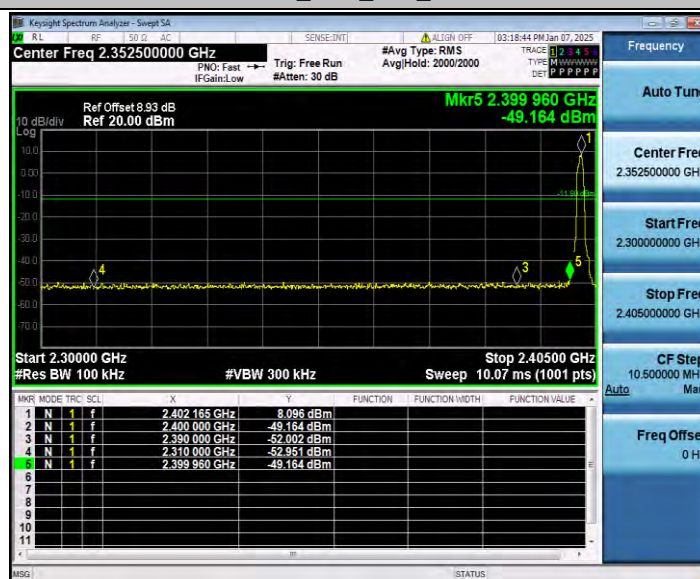
DH1\_Ant1\_Low\_Hop\_2402



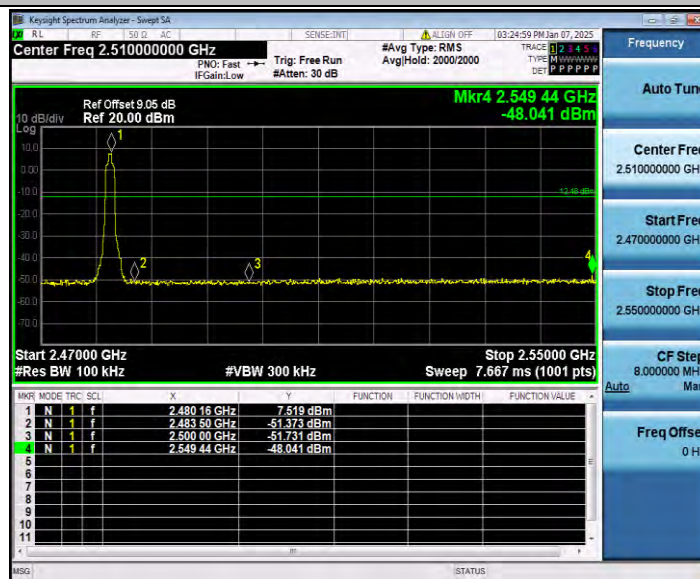
DH1\_Ant1\_High\_Hop\_2480



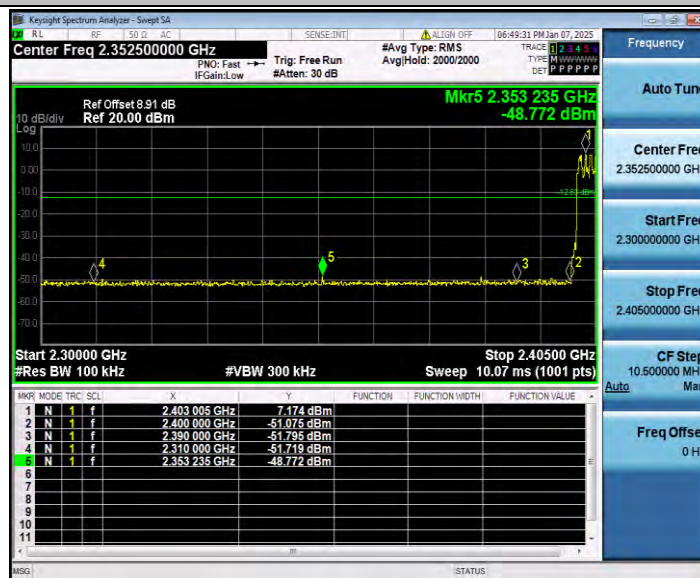
2DH1\_Ant1\_Low\_2402



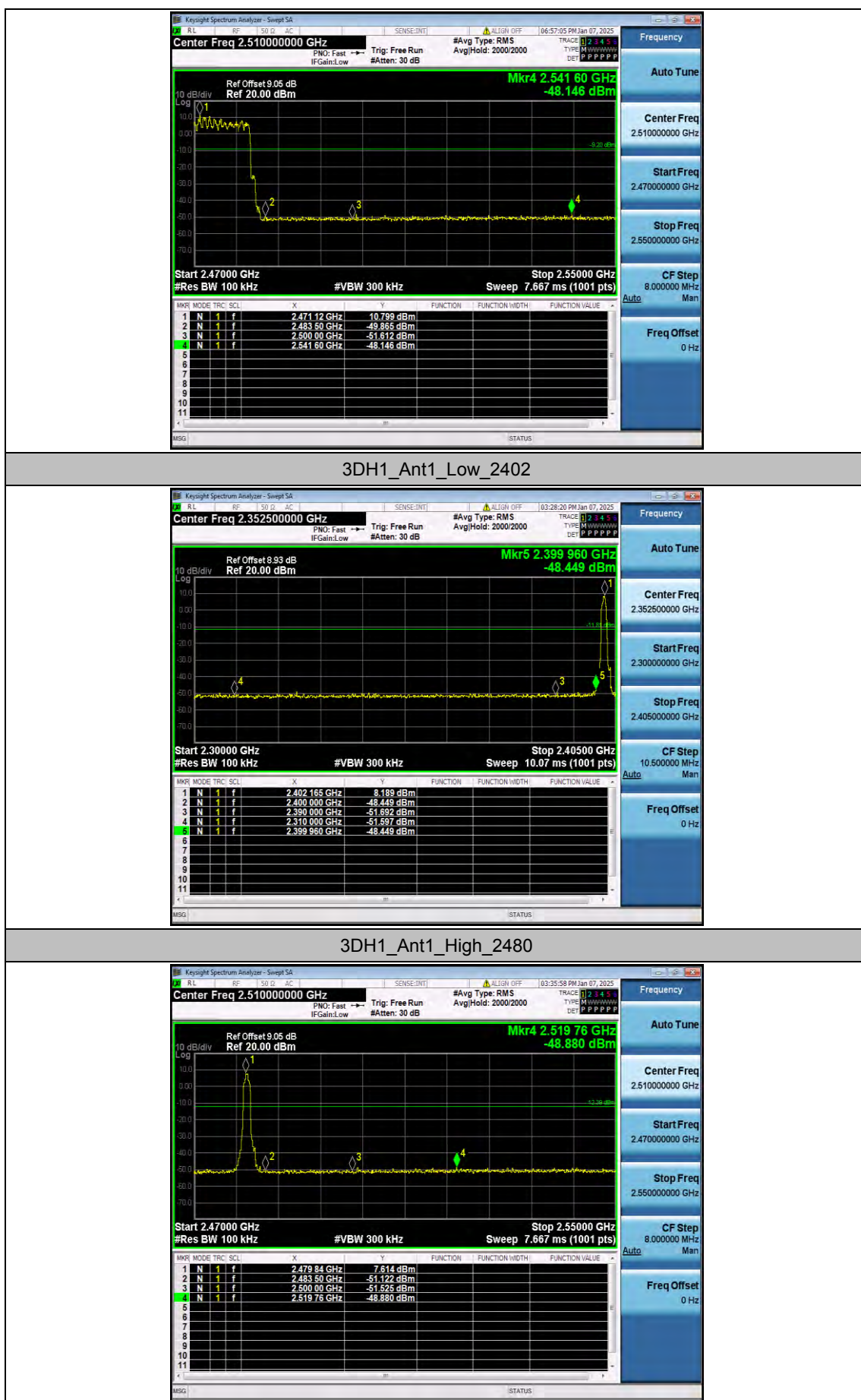
## 2DH1\_Ant1\_High\_2480



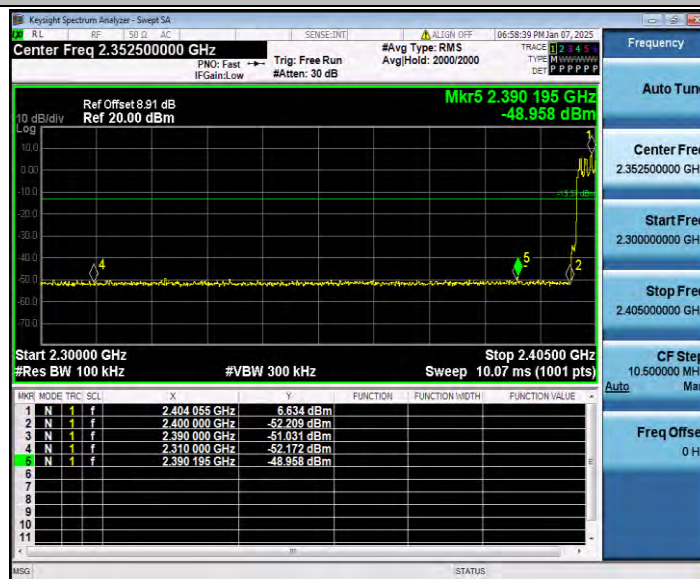
## 2DH1\_Ant1\_Low\_Hop\_2402



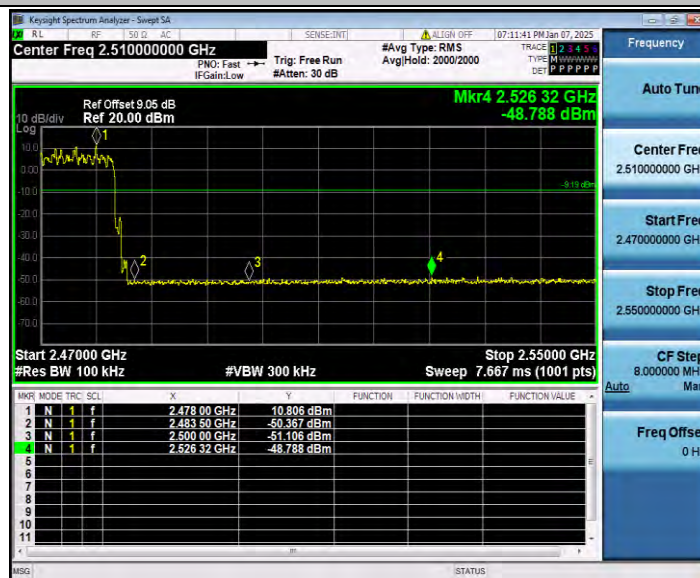
## 2DH1\_Ant1\_High\_Hop\_2480



## 3DH1\_Ant1\_Low\_Hop\_2402



## 3DH1\_Ant1\_High\_Hop\_2480

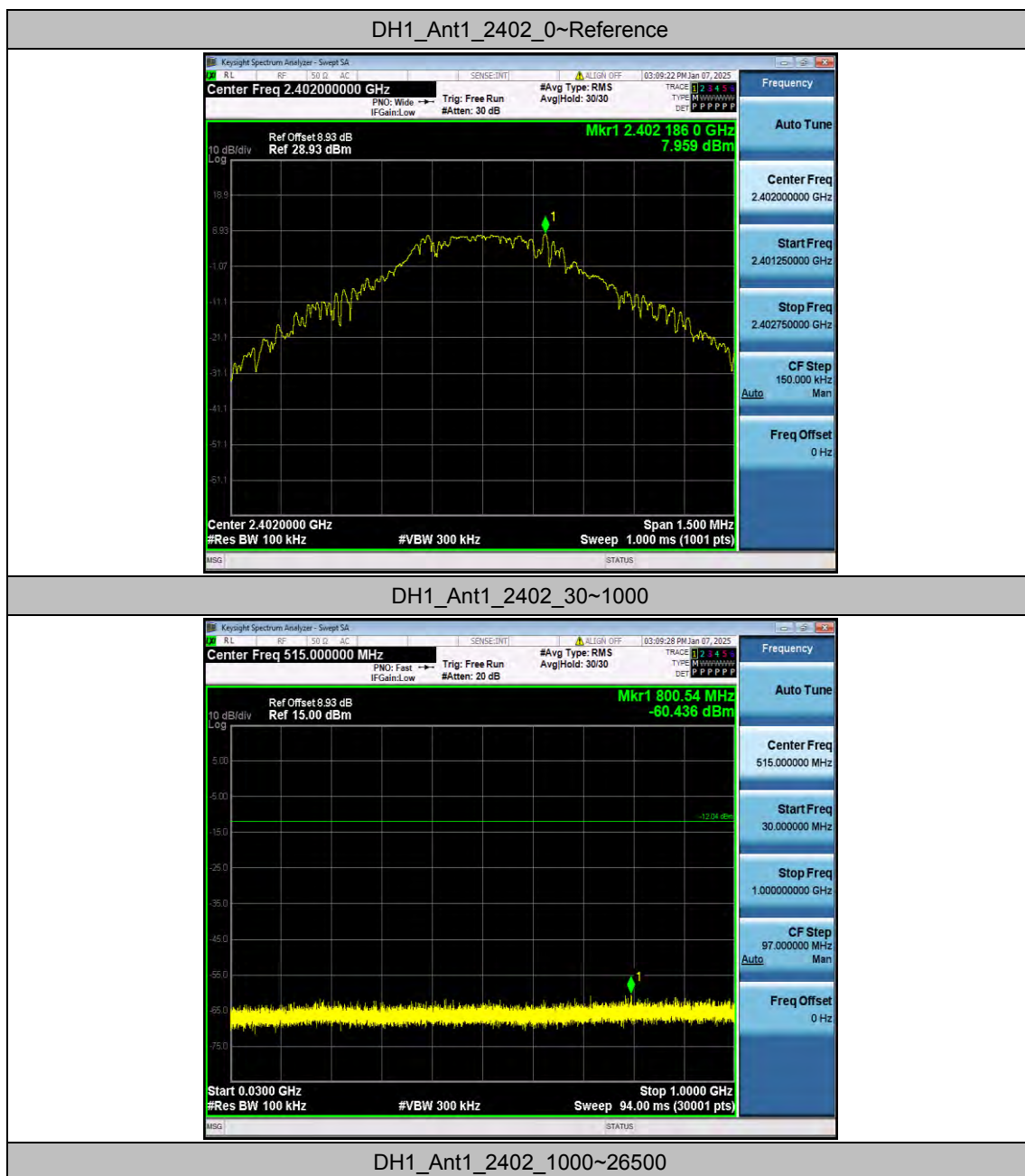


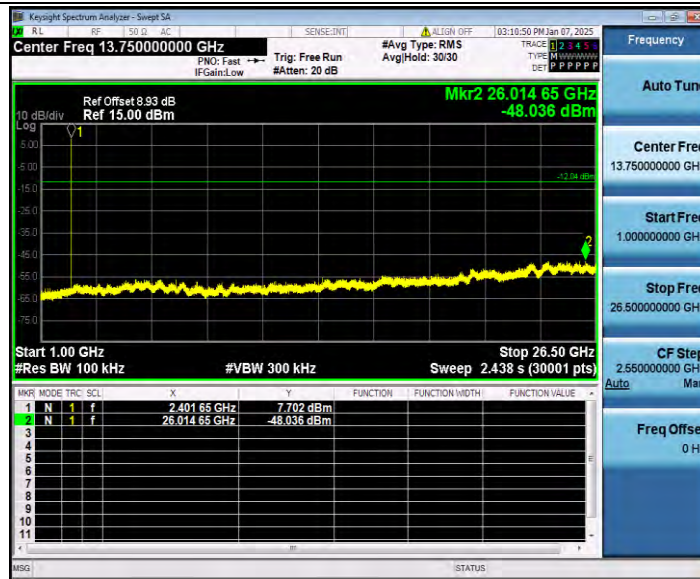
## Appendix A.8: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Freq(MHz) | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|-----------|-----------------|----------------|--------------|-------------|---------|
| DH1      | Ant1    | 2402      | Reference       | 7.96           | 7.96         | ---         | PASS    |
|          |         |           | 30~1000         | 7.96           | -60.44       | ≤-12.04     | PASS    |
|          |         |           | 1000~26500      | 7.96           | -48.04       | ≤-12.04     | PASS    |
|          |         | 2441      | Reference       | 8.66           | 8.66         | ---         | PASS    |
|          |         |           | 30~1000         | 8.66           | -57.09       | ≤-11.34     | PASS    |
|          |         |           | 1000~26500      | 8.66           | -47.88       | ≤-11.34     | PASS    |
|          |         | 2480      | Reference       | 7.17           | 7.17         | ---         | PASS    |
|          |         |           | 30~1000         | 7.17           | -59.51       | ≤-12.83     | PASS    |
|          |         |           | 1000~26500      | 7.17           | -47.38       | ≤-12.83     | PASS    |
| 2DH1     | Ant1    | 2402      | Reference       | 7.87           | 7.87         | ---         | PASS    |
|          |         |           | 30~1000         | 7.87           | -60.46       | ≤-12.13     | PASS    |
|          |         |           | 1000~26500      | 7.87           | -48.37       | ≤-12.13     | PASS    |
|          |         | 2441      | Reference       | 8.51           | 8.51         | ---         | PASS    |
|          |         |           | 30~1000         | 8.51           | -59.98       | ≤-11.49     | PASS    |
|          |         |           | 1000~26500      | 8.51           | -47.19       | ≤-11.49     | PASS    |
|          |         | 2480      | Reference       | 7.13           | 7.13         | ---         | PASS    |
|          |         |           | 30~1000         | 7.13           | -58.56       | ≤-12.87     | PASS    |
|          |         |           | 1000~26500      | 7.13           | -47.05       | ≤-12.87     | PASS    |
| 3DH1     | Ant1    | 2402      | Reference       | 7.28           | 7.28         | ---         | PASS    |
|          |         |           | 30~1000         | 7.28           | -58.62       | ≤-12.72     | PASS    |
|          |         |           | 1000~26500      | 7.28           | -47.74       | ≤-12.72     | PASS    |
|          |         | 2441      | Reference       | 7.97           | 7.97         | ---         | PASS    |
|          |         |           | 30~1000         | 7.97           | -59.16       | ≤-12.03     | PASS    |
|          |         |           | 1000~26500      | 7.97           | -47.24       | ≤-12.03     | PASS    |
|          |         | 2480      | Reference       | 7.06           | 7.06         | ---         | PASS    |
|          |         |           | 30~1000         | 7.06           | -60.33       | ≤-12.94     | PASS    |
|          |         |           | 1000~26500      | 7.06           | -47.72       | ≤-12.94     | PASS    |

## Test Graphs

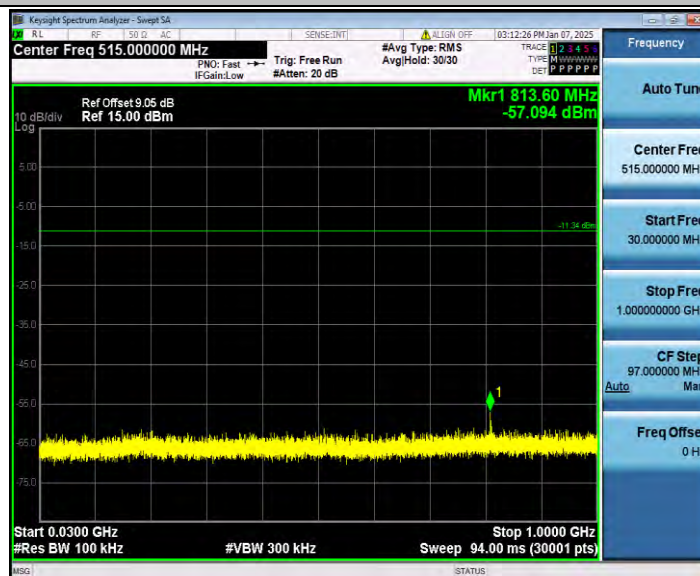




DH1\_Ant1\_2441\_0~Reference



DH1\_Ant1\_2441\_30~1000



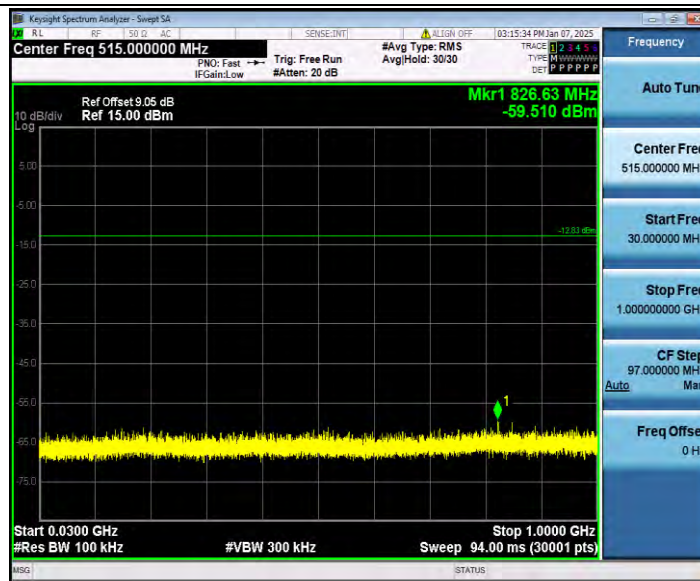
## DH1\_Ant1\_2441\_1000~26500



## DH1\_Ant1\_2480\_0~Reference



## DH1\_Ant1\_2480\_30~1000



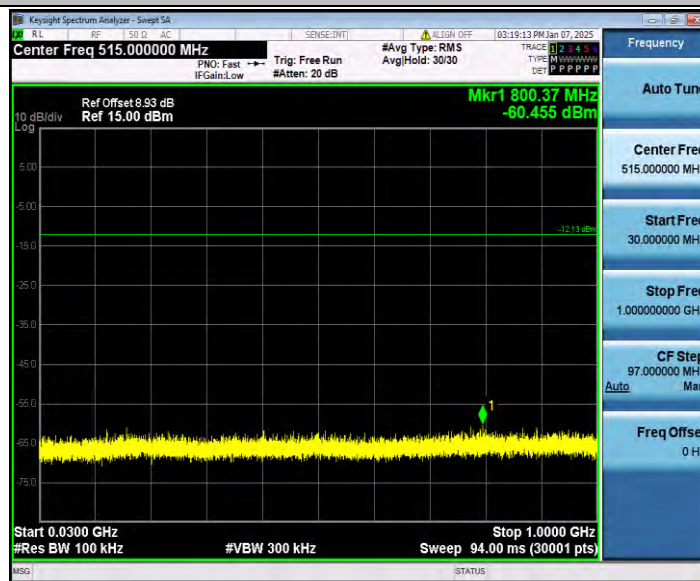
DH1\_Ant1\_2480\_1000~26500



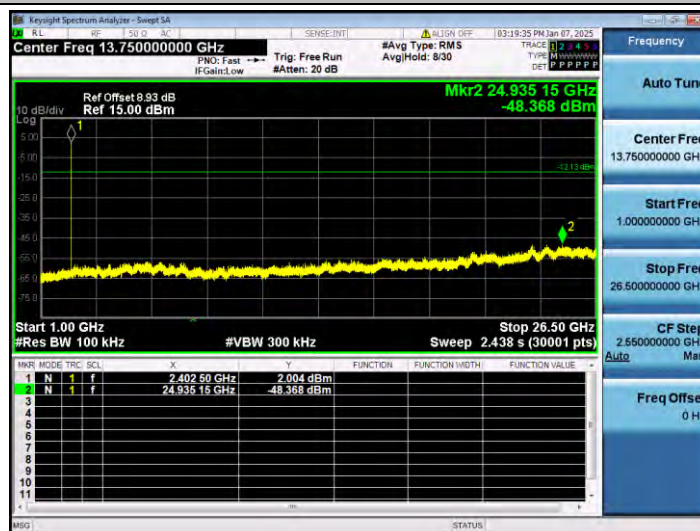
2DH1\_Ant1\_2402\_0~Reference



## 2DH1\_Ant1\_2402\_30~1000

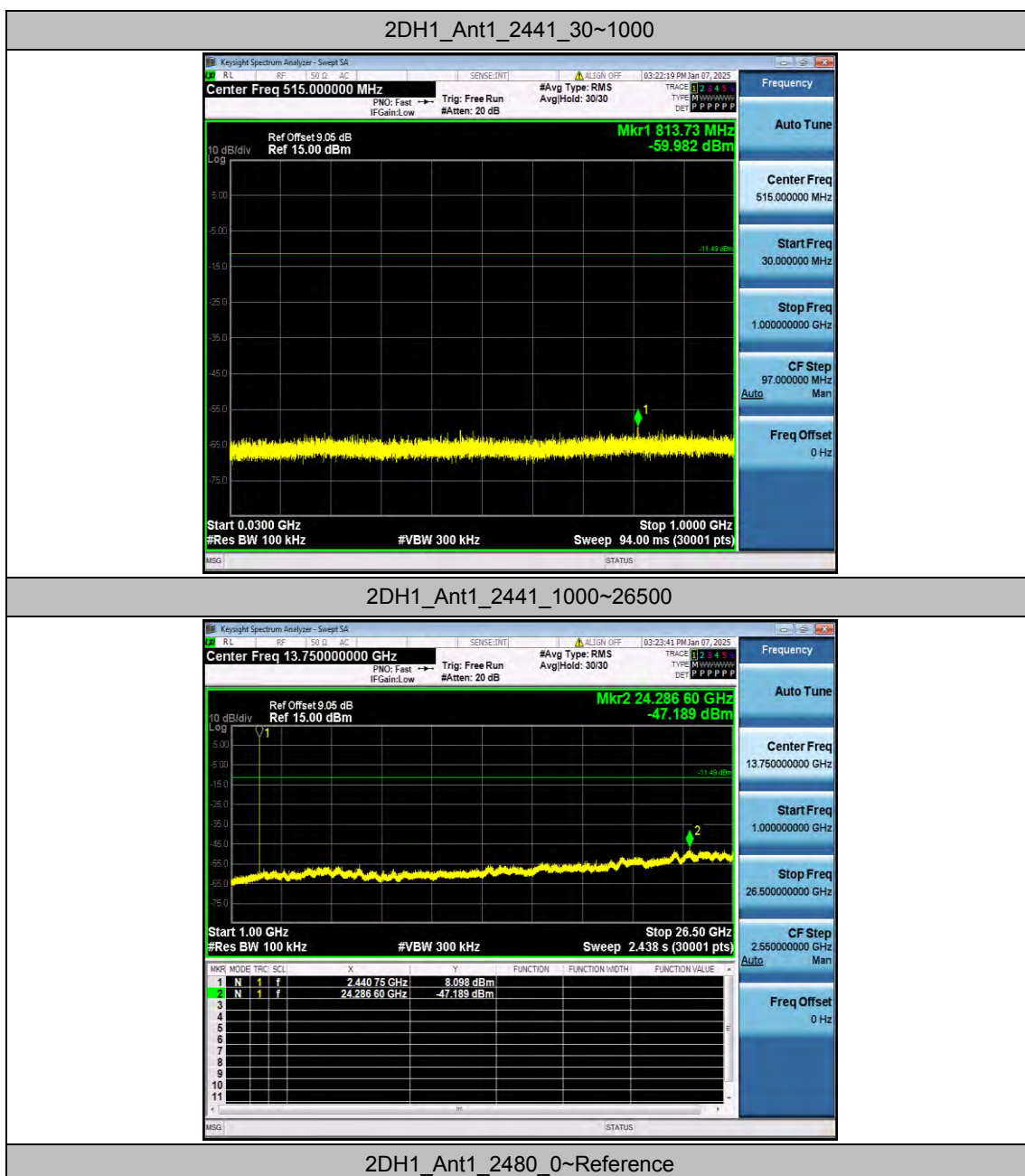


## 2DH1\_Ant1\_2402\_1000~26500



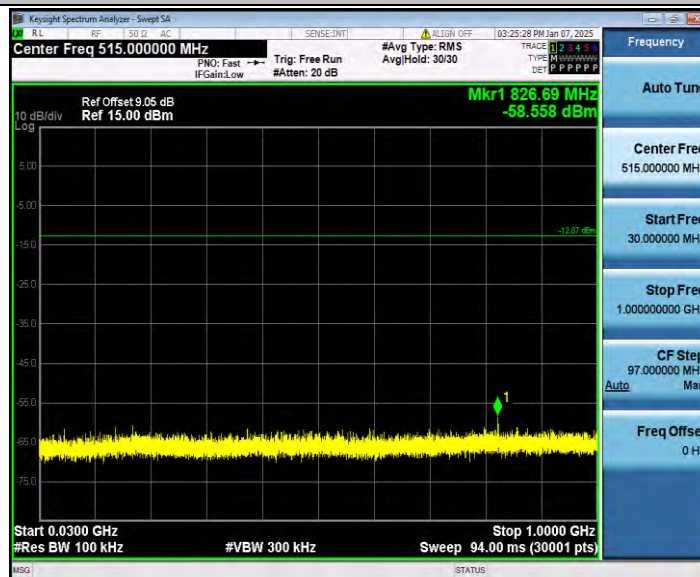
## 2DH1\_Ant1\_2441\_0~Reference







2DH1\_Ant1\_2480\_30~1000



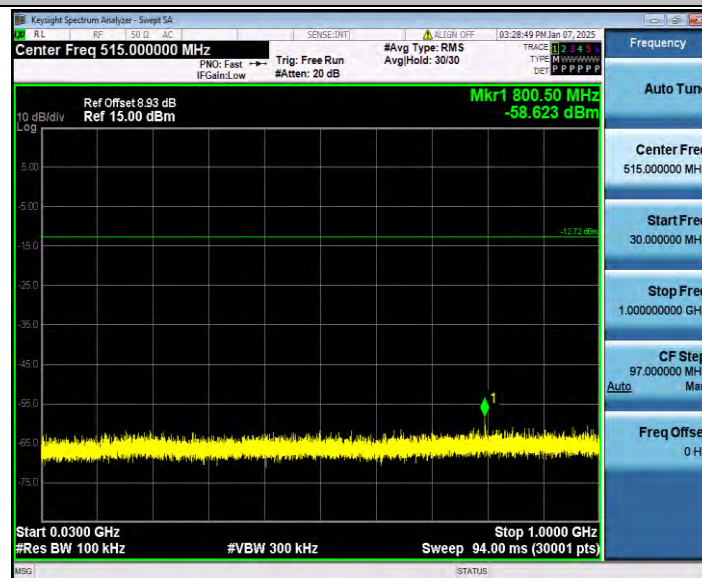
2DH1\_Ant1\_2480\_1000~26500



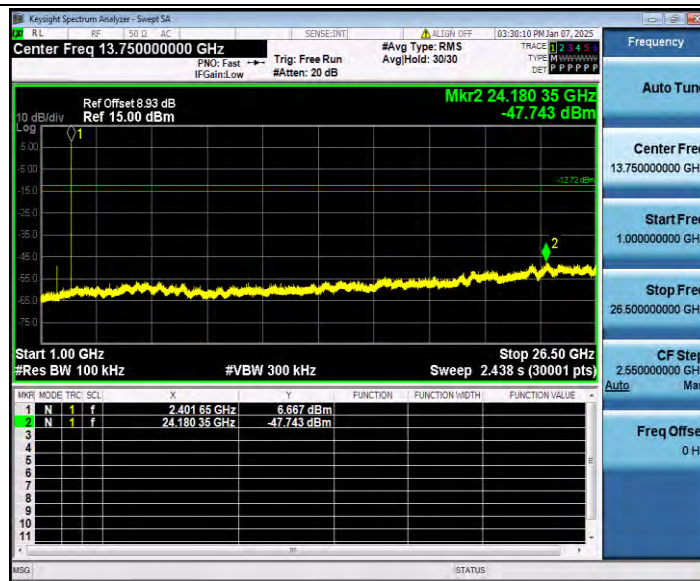
## 3DH1\_Ant1\_2402\_0~Reference



## 3DH1\_Ant1\_2402\_30~1000



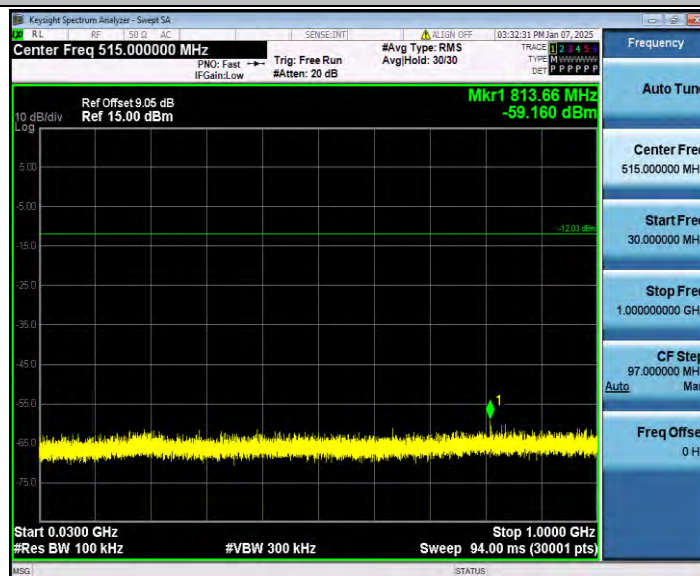
## 3DH1\_Ant1\_2402\_1000~26500



3DH1\_Ant1\_2441\_0~Reference



3DH1\_Ant1\_2441\_30~1000



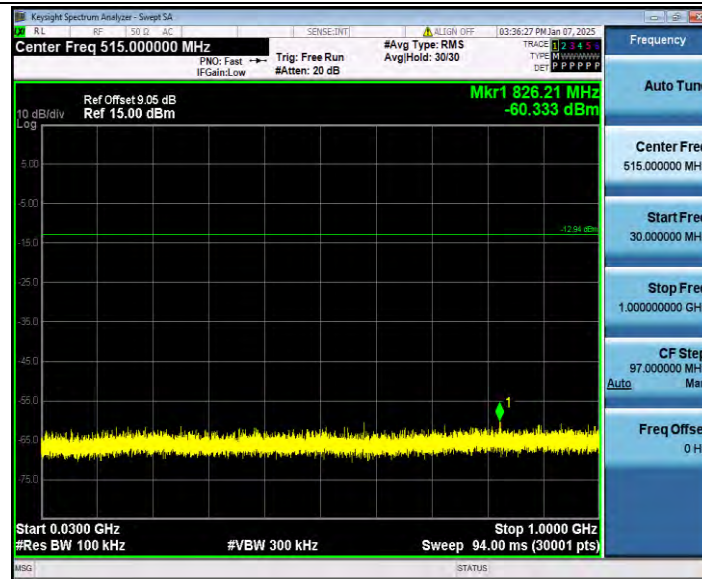
## 3DH1\_Ant1\_2441\_1000~26500



## 3DH1\_Ant1\_2480\_0~Reference



## 3DH1\_Ant1\_2480\_30~1000



3DH1\_Ant1\_2480\_1000~26500

