

## Appendix A

### RF Test Data for BT (Conducted Measurement)

**Product Name: PLANTER SPEAKER**

**Test Model: TS-OA3PS-GRY**

#### Environmental Conditions

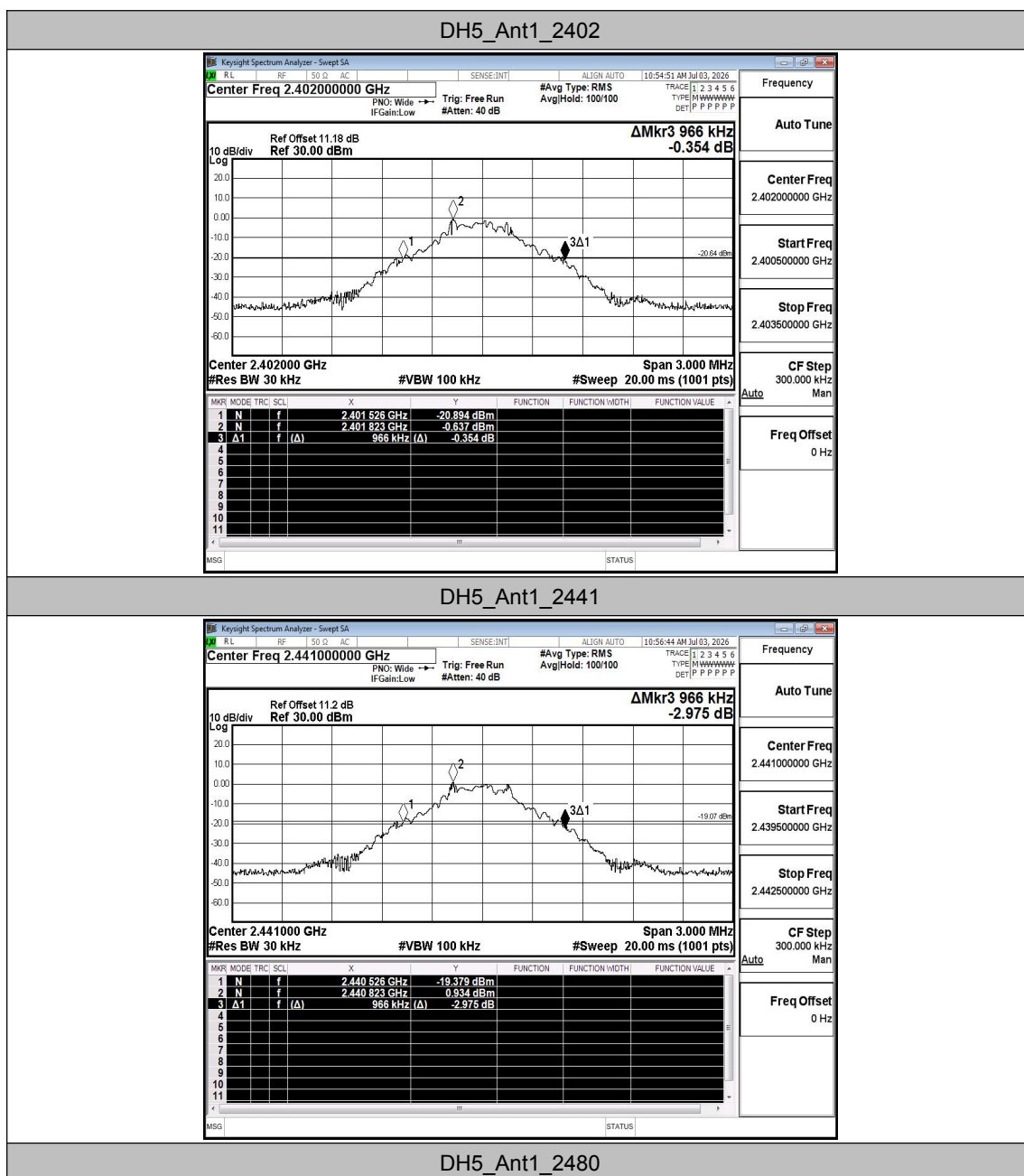
|                    |              |
|--------------------|--------------|
| Temperature:       | 24.2°C       |
| Relative Humidity: | 53.2%        |
| ATM Pressure:      | 100.0 kPa    |
| Test Engineer:     | Zhang hai    |
| Supervised by:     | Fengliu Tang |

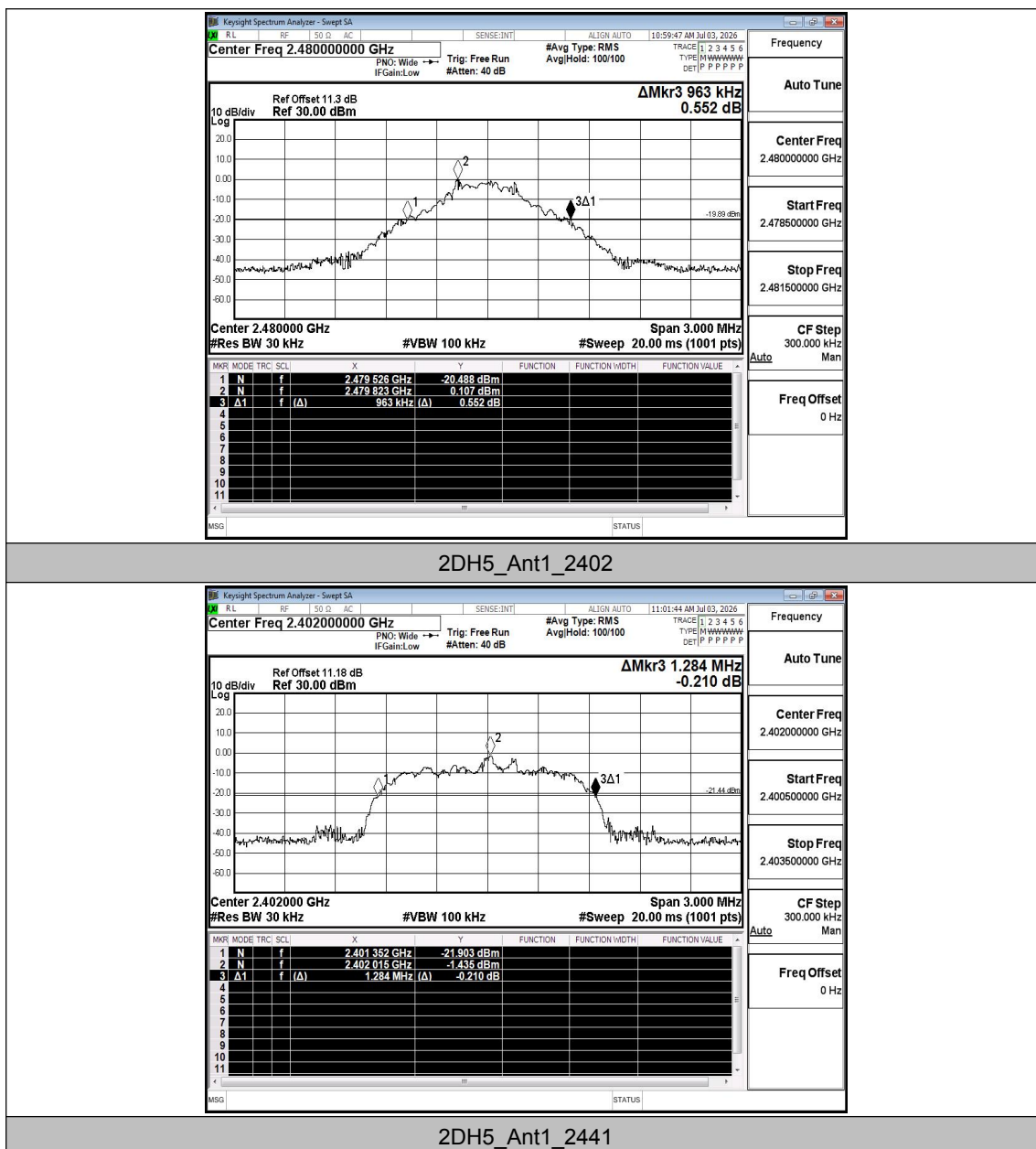
## A.1 20dB Emission Bandwidth

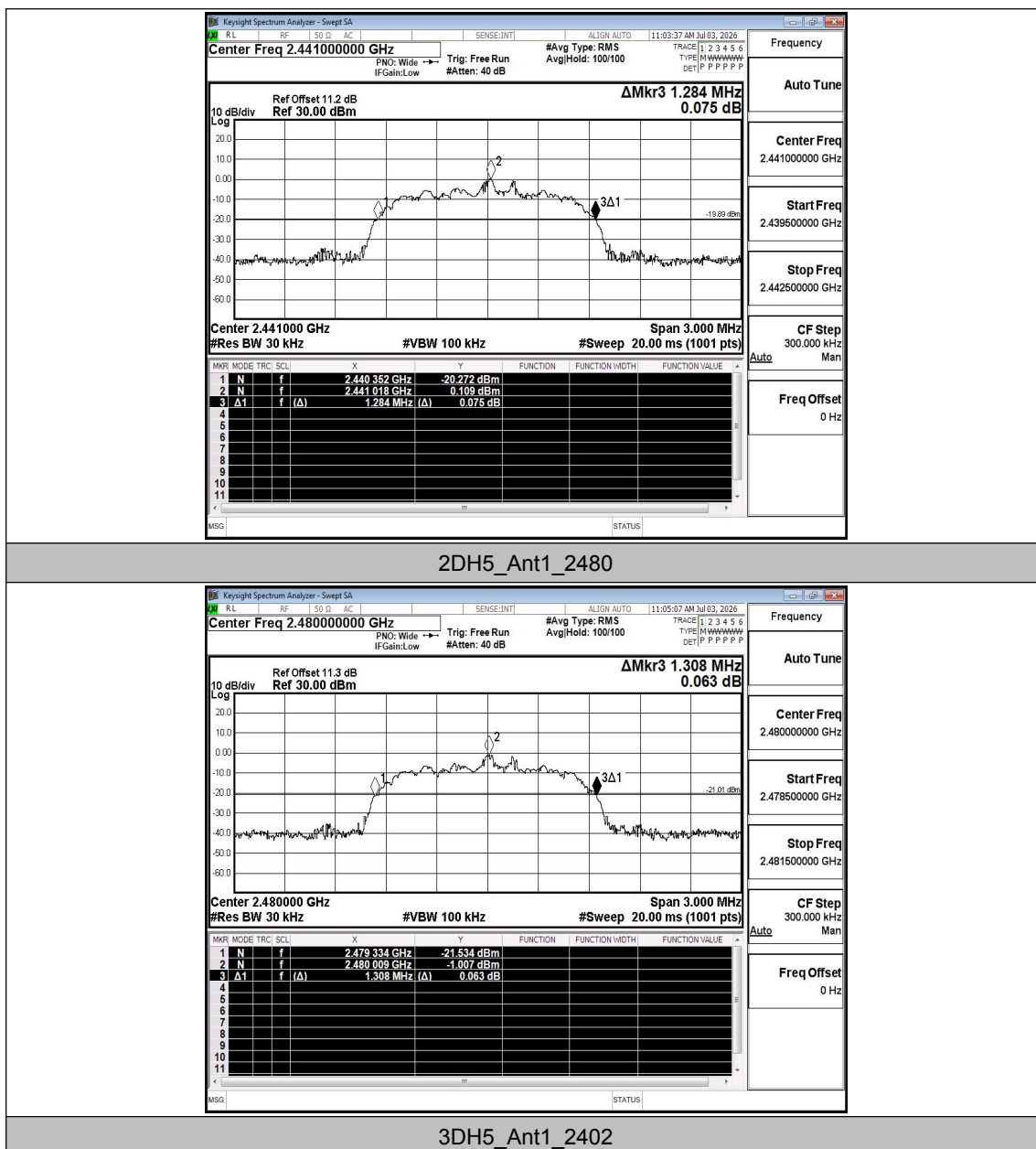
### Test Result

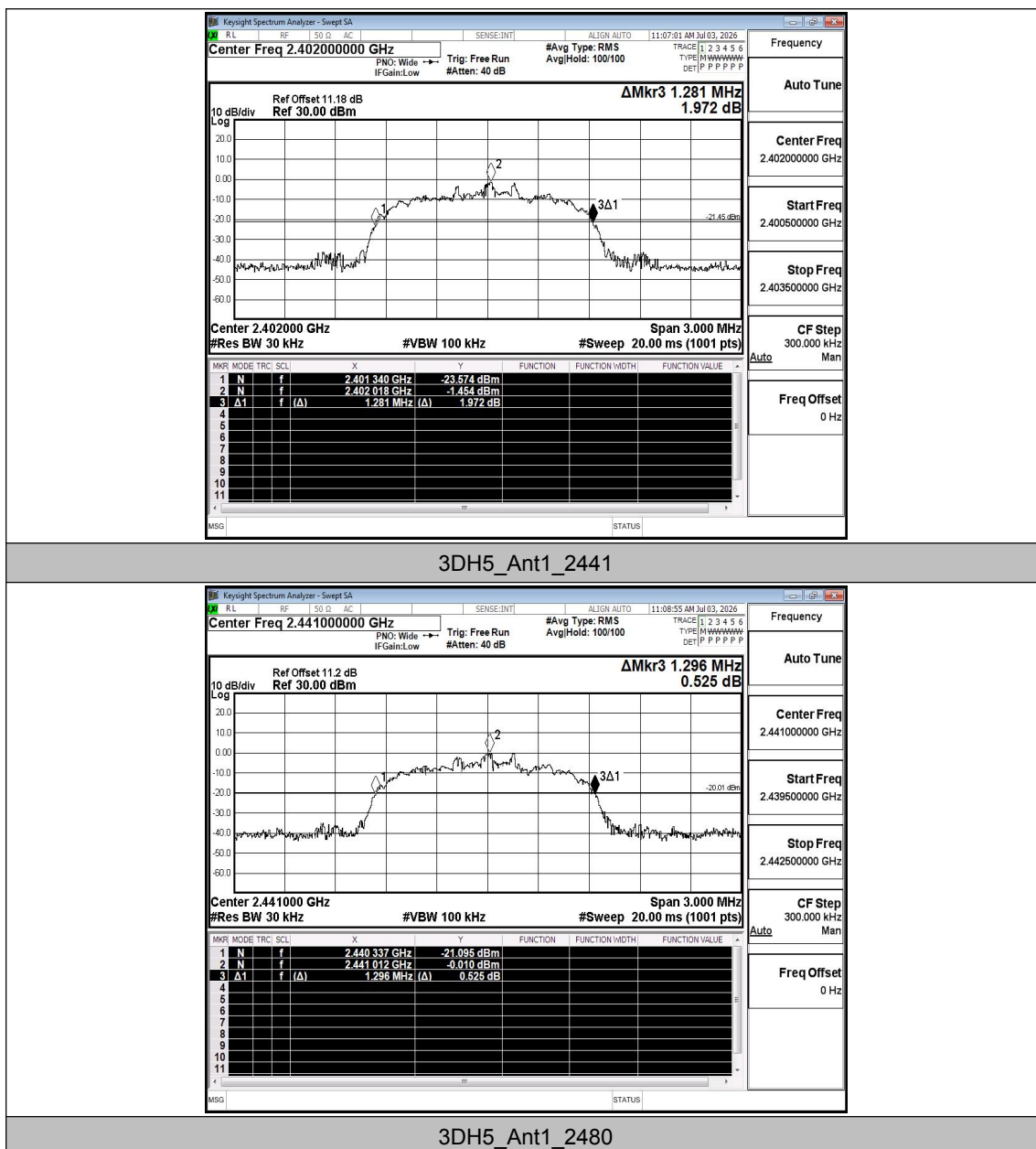
| TestMode | Antenna | Freq(MHz) | 20dB<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|-----------|------------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402      | 0.966            | 2401.526 | 2402.492 | ---        | ---     |
|          |         | 2441      | 0.966            | 2440.526 | 2441.492 | ---        | ---     |
|          |         | 2480      | 0.963            | 2479.526 | 2480.489 | ---        | ---     |
| 2DH5     | Ant1    | 2402      | 1.284            | 2401.352 | 2402.636 | ---        | ---     |
|          |         | 2441      | 1.284            | 2440.352 | 2441.636 | ---        | ---     |
|          |         | 2480      | 1.308            | 2479.334 | 2480.642 | ---        | ---     |
| 3DH5     | Ant1    | 2402      | 1.281            | 2401.340 | 2402.621 | ---        | ---     |
|          |         | 2441      | 1.296            | 2440.337 | 2441.633 | ---        | ---     |
|          |         | 2480      | 1.293            | 2479.340 | 2480.633 | ---        | ---     |

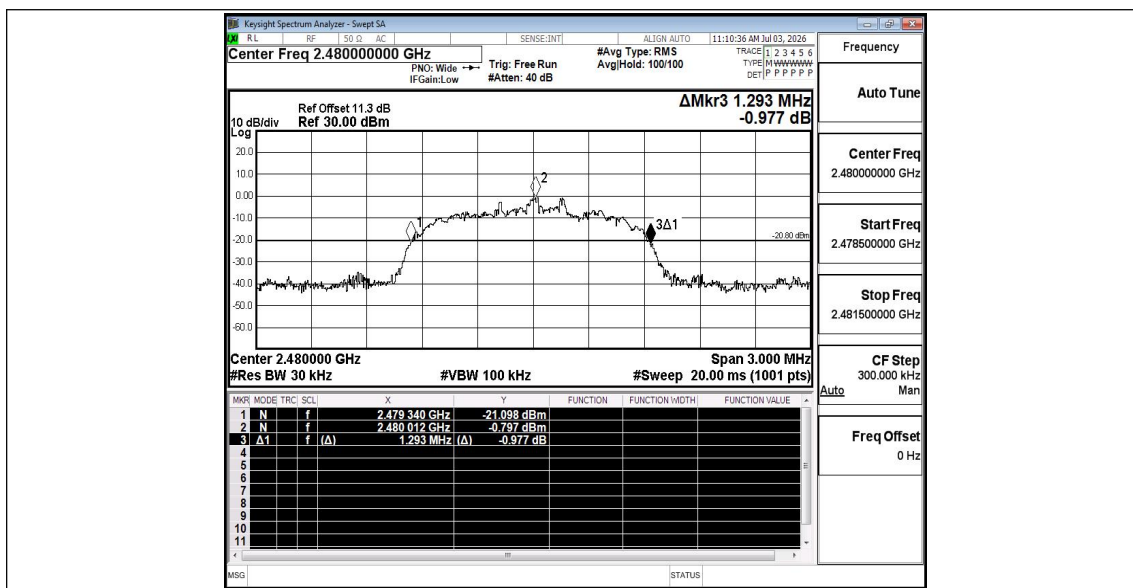
## Test Graphs









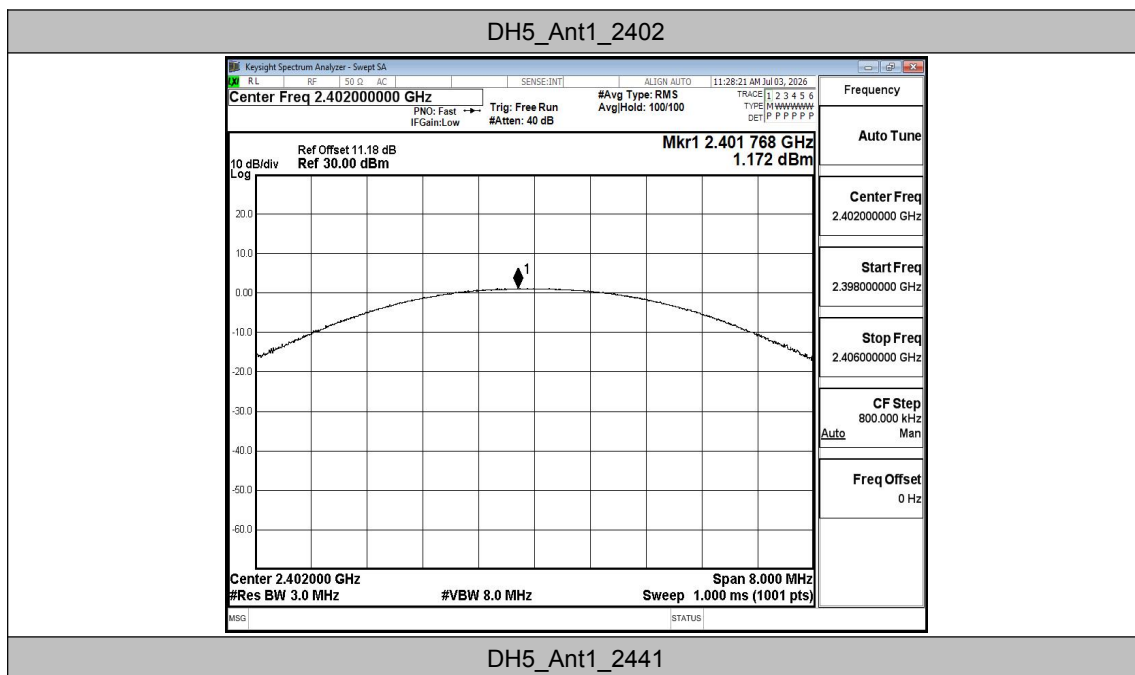


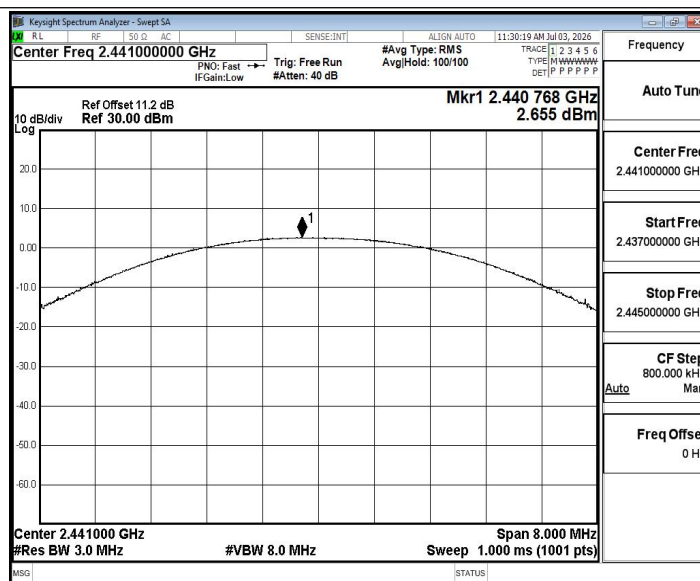
## A.2 Maximum Peak conducted output power

### Test Result Peak

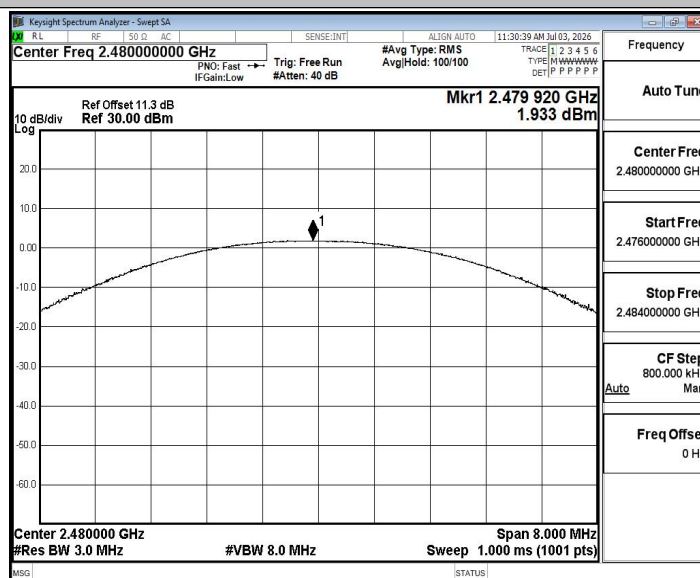
| Test Mode | Antenna | Freq(MHz) | Conducted Peak Power[dBm] | Conducted Limit[dBm] |
|-----------|---------|-----------|---------------------------|----------------------|
| DH5       | Ant1    | 2402      | 1.17                      | ≤30                  |
|           |         | 2441      | 2.66                      | ≤30                  |
|           |         | 2480      | 1.93                      | ≤30                  |
| 2DH5      | Ant1    | 2402      | 2.57                      | ≤30                  |
|           |         | 2441      | 3.98                      | ≤30                  |
|           |         | 2480      | 2.96                      | ≤30                  |
| 3DH5      | Ant1    | 2402      | 2.99                      | ≤30                  |
|           |         | 2441      | 4.21                      | ≤30                  |
|           |         | 2480      | 3.12                      | ≤30                  |

### Test Graphs

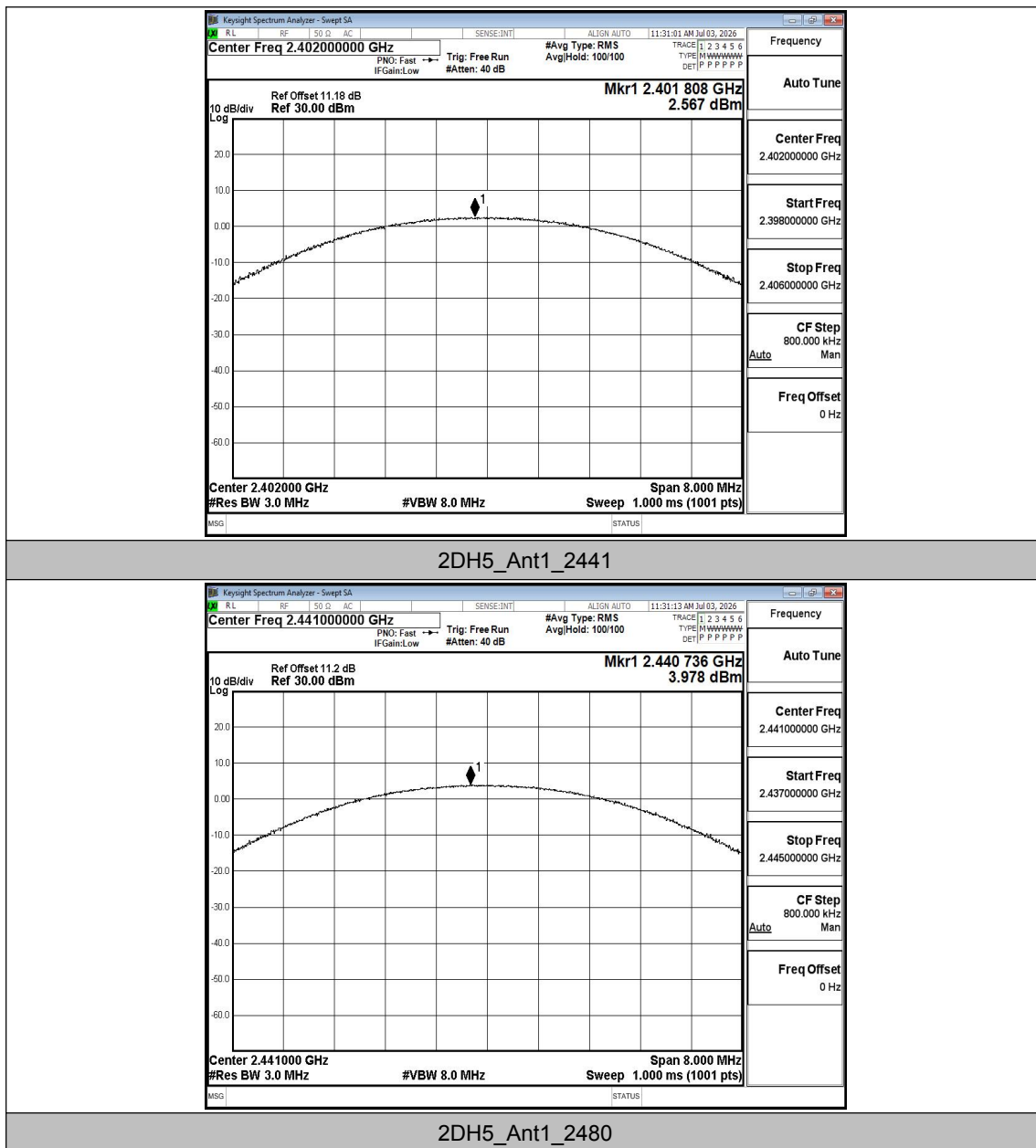


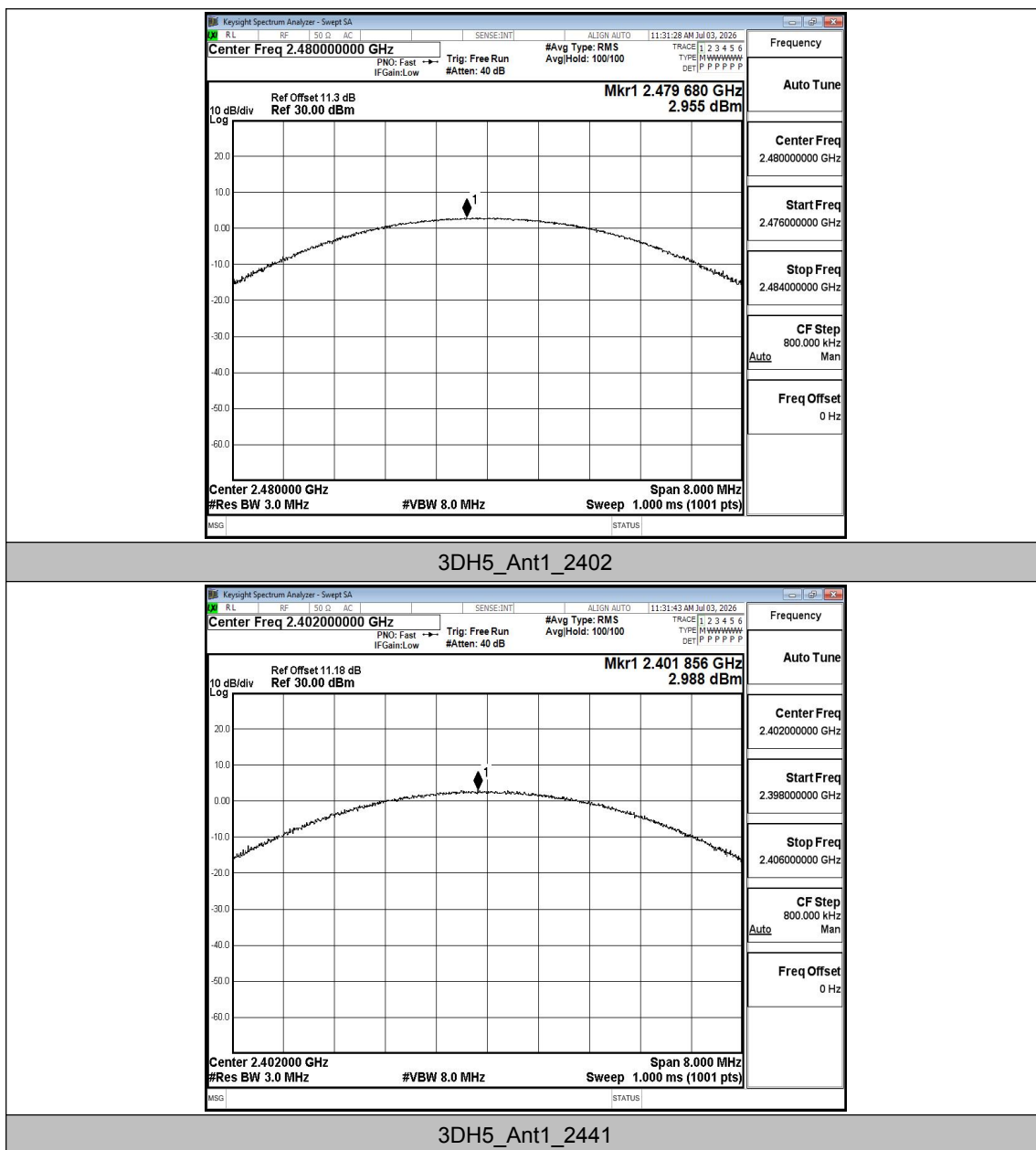


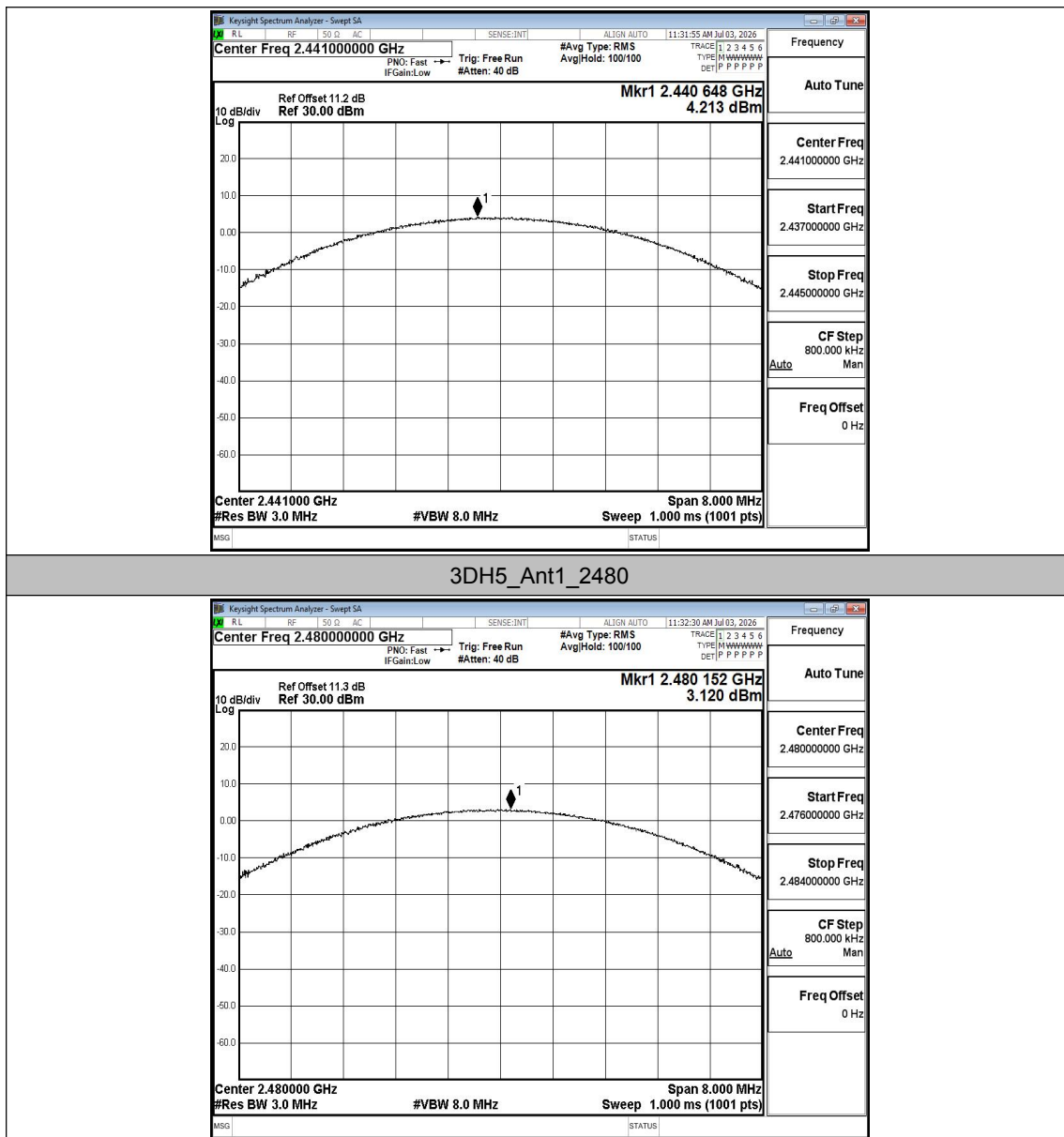
DH5\_Ant1\_2480



2DH5\_Ant1\_2402





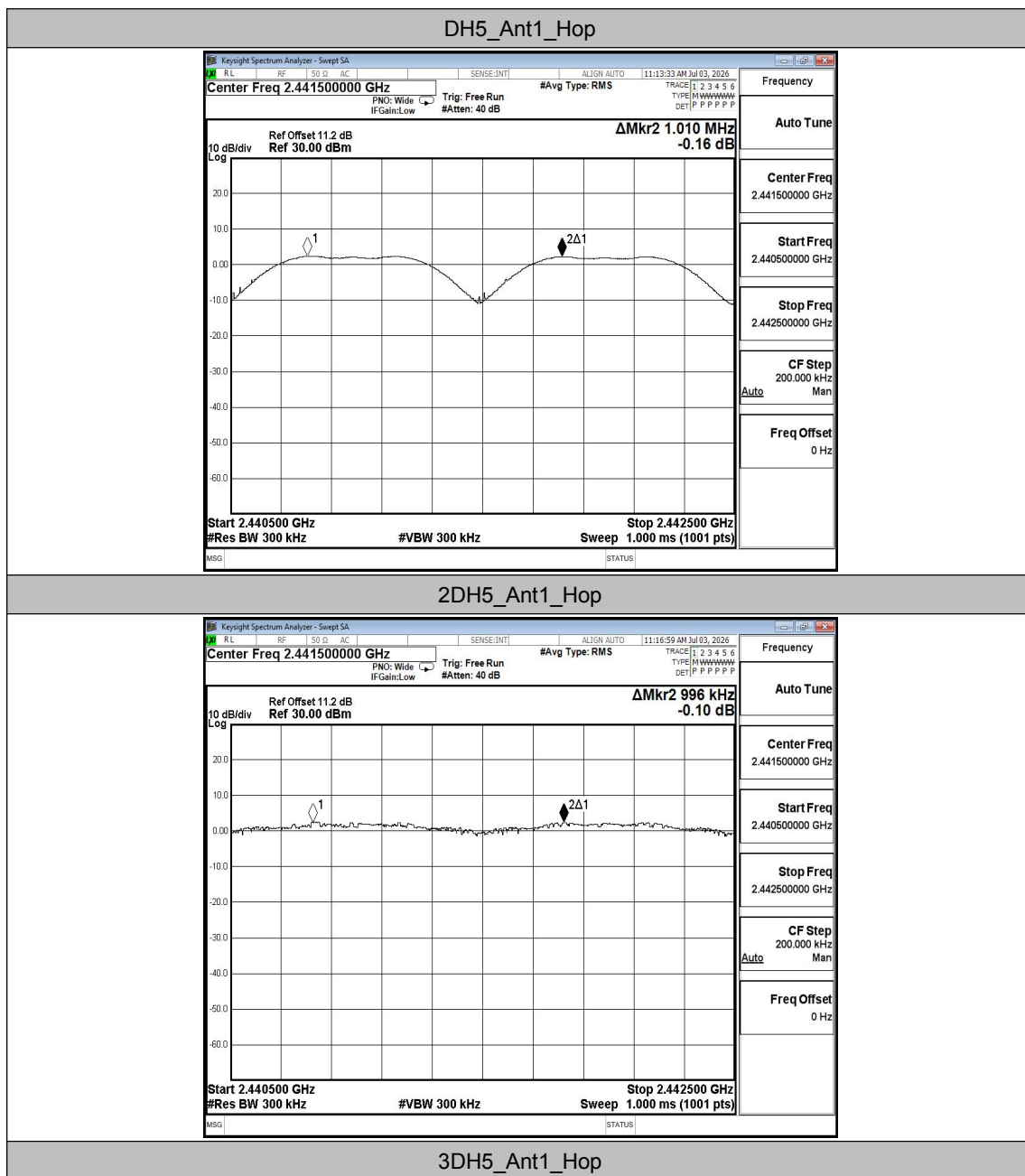


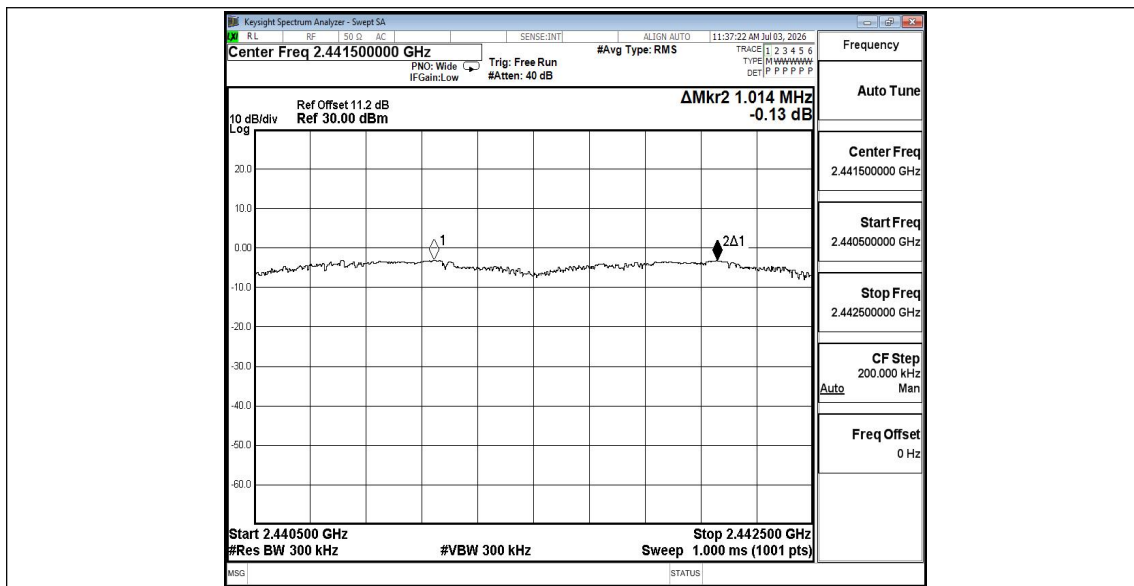
## A.3 Carrier frequency separation

### Test Result

| TestMode | Antenna | Freq(MHz) | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|-----------|-------------|--------------|---------|
| DH5      | Ant1    | Hop       | 1.01        | $\geq 0.966$ | PASS    |
| 2DH5     | Ant1    | Hop       | 0.996       | $\geq 0.872$ | PASS    |
| 3DH5     | Ant1    | Hop       | 1.014       | $\geq 0.864$ | PASS    |

## Test Graphs



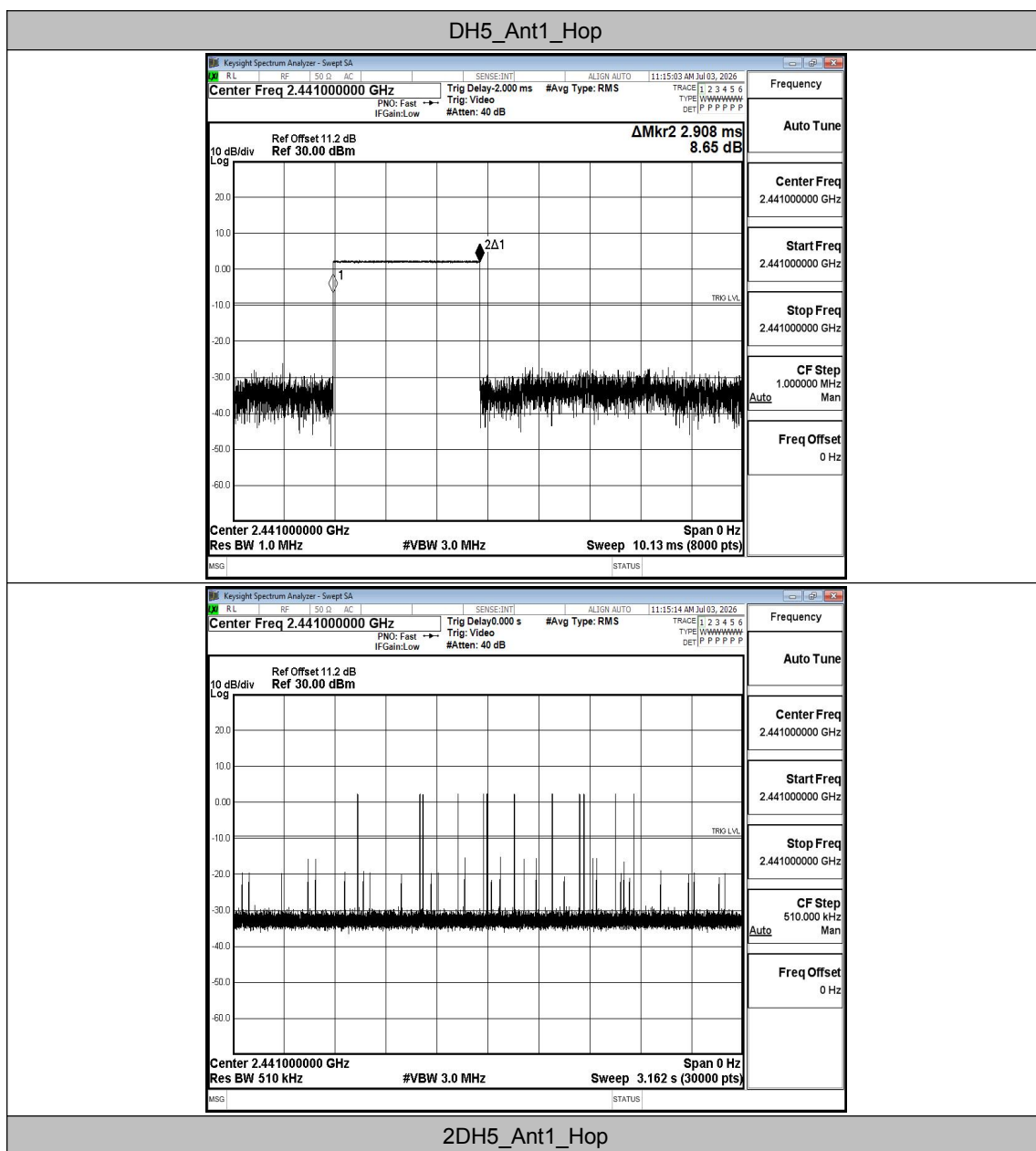


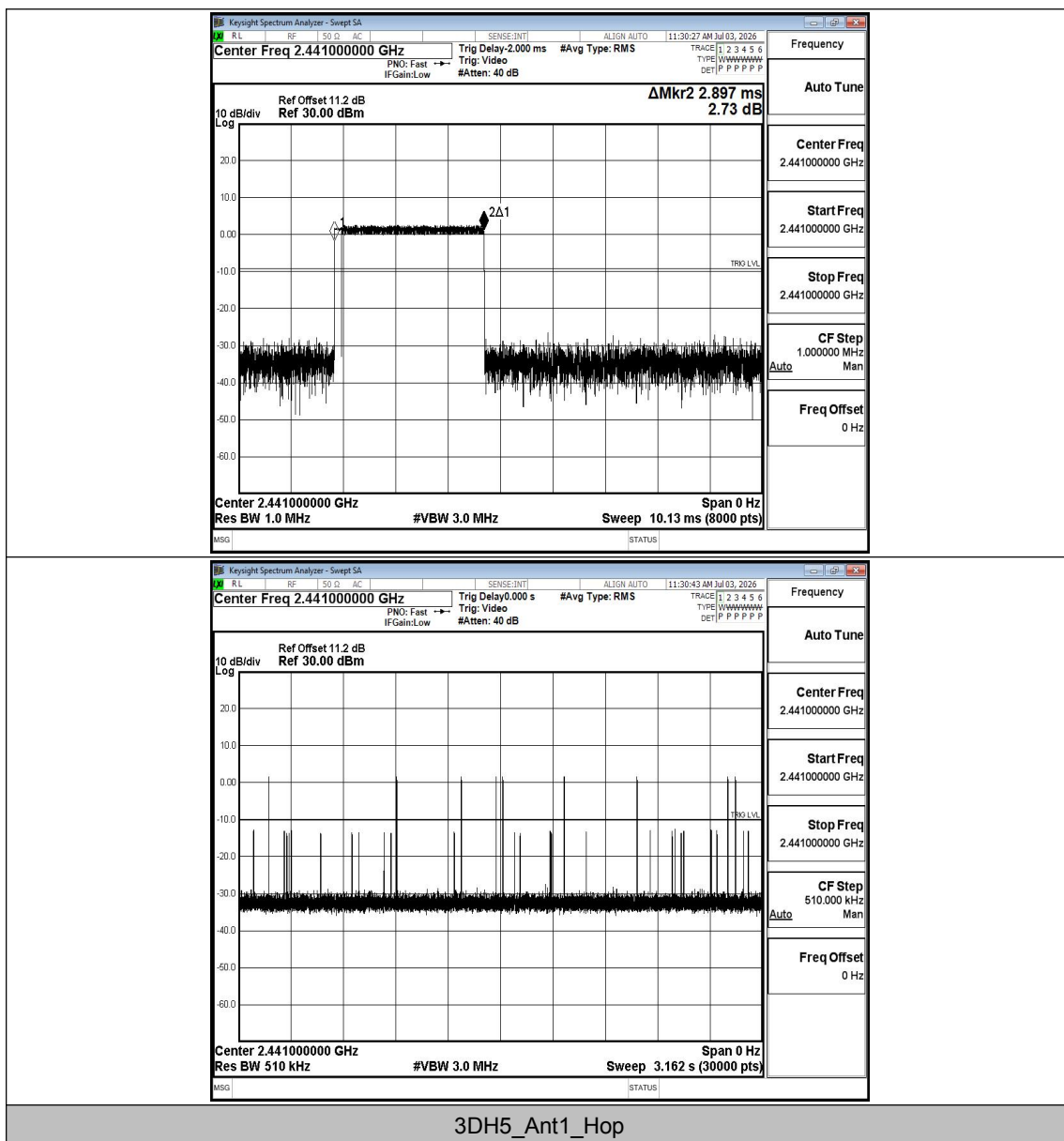
## A.4 Time of occupancy

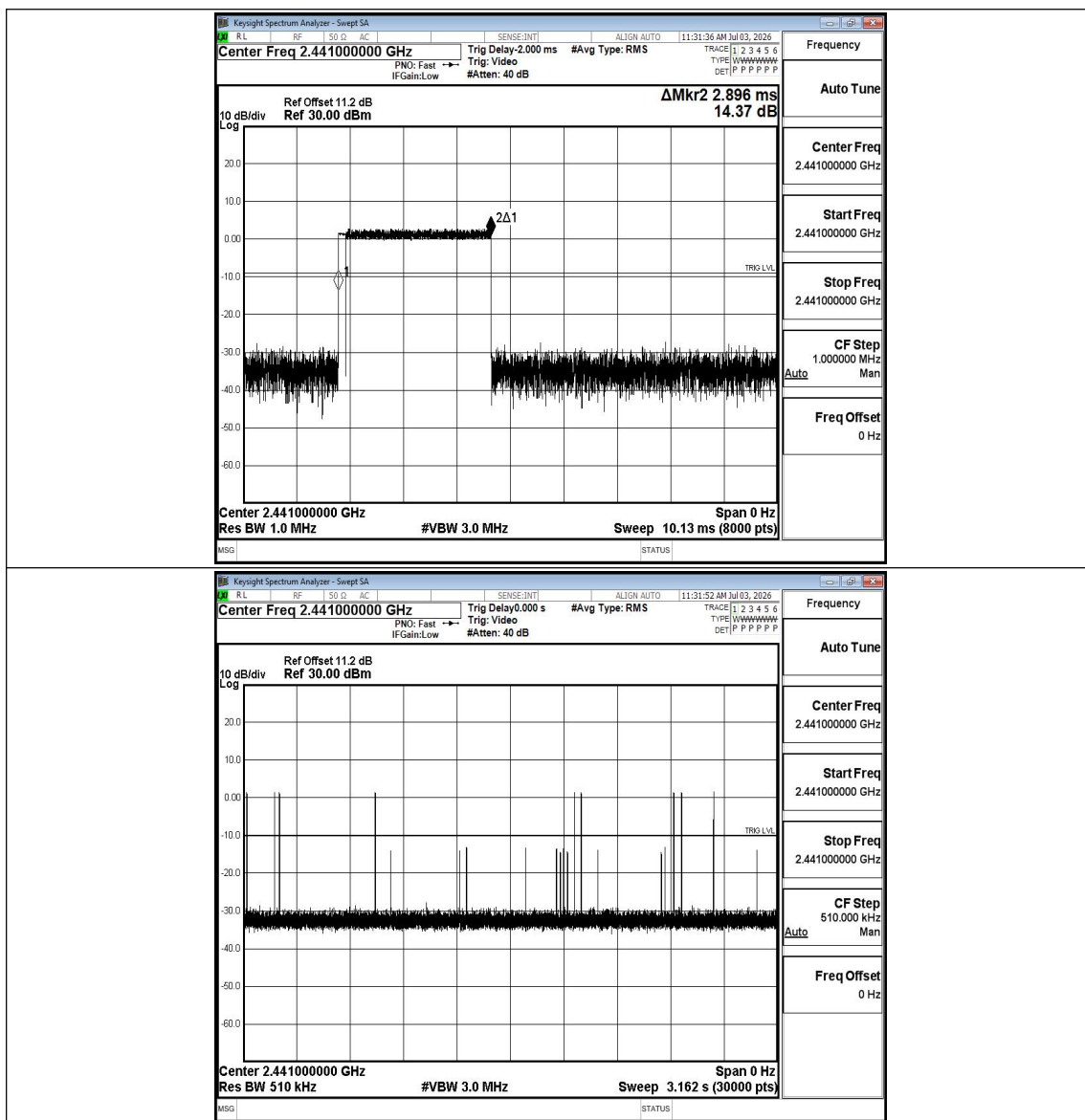
### Test Result

| TestMode | Antenna | Freq(MHz) | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|-----------|--------------------|--------------------|-----------|----------|---------|
| DH5      | Ant1    | Hop       | 2.908              | 130                | 0.378     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop       | 2.897              | 110                | 0.319     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop       | 2.896              | 100                | 0.29      | ≤0.4     | PASS    |

## Test Graphs





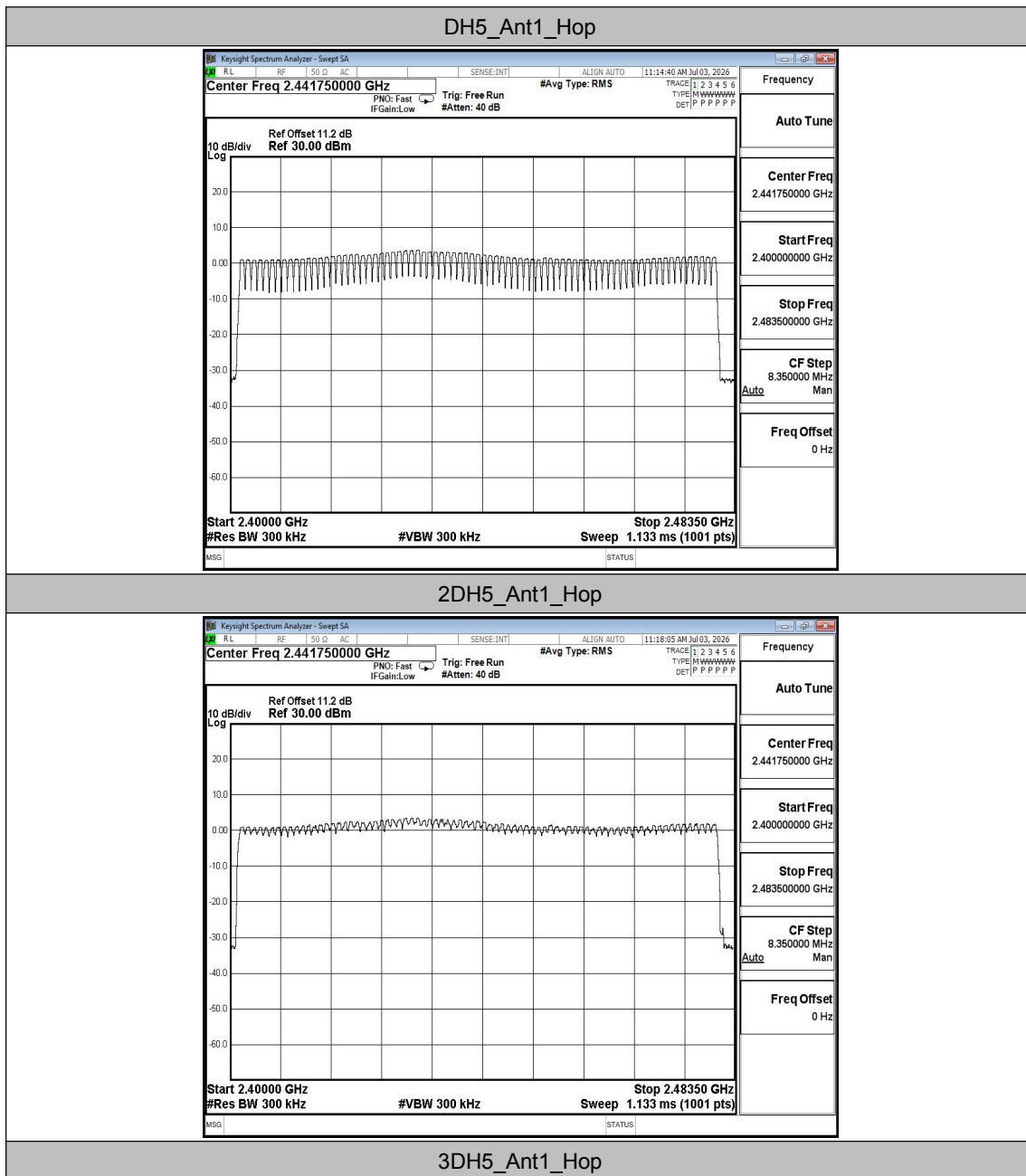


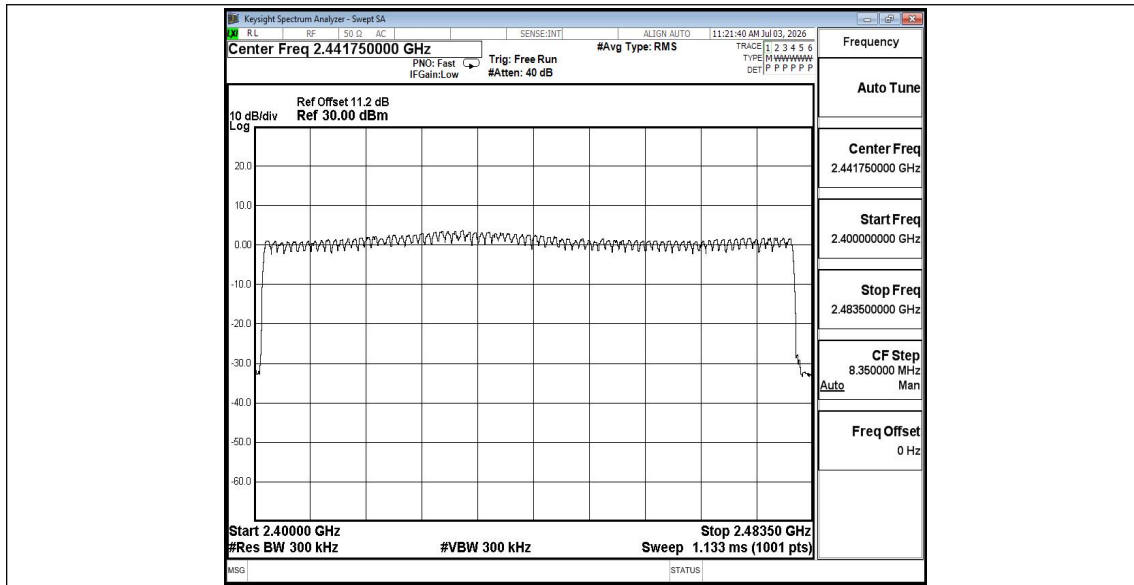
## A.5 Number of hopping channels

### Test Result

| TestMode | Antenna | Freq(MHz) | 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





## A.6 Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Freq(MHz) | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|----------|---------|--------|-----------|----------------|--------------|---------------|---------|
| DH5      | Ant1    | Low    | 2402      | 0.53           | -45.93       | $\leq -19.47$ | PASS    |
|          |         | High   | 2480      | 0.99           | -45.18       | $\leq -19.01$ | PASS    |
|          |         | Low    | Hop_2402  | 0.17           | -46.58       | $\leq -19.83$ | PASS    |
|          |         | High   | Hop_2480  | 0.88           | -45.6        | $\leq -19.12$ | PASS    |
| 2DH5     | Ant1    | Low    | 2402      | -0.04          | -46.65       | $\leq -20.04$ | PASS    |
|          |         | High   | 2480      | 1.27           | -45.96       | $\leq -18.73$ | PASS    |
|          |         | Low    | Hop_2402  | -1.37          | -46.11       | $\leq -21.37$ | PASS    |
|          |         | High   | Hop_2480  | -2.44          | -45.69       | $\leq -22.44$ | PASS    |
| 3DH5     | Ant1    | Low    | 2402      | 0.69           | -45.73       | $\leq -19.31$ | PASS    |
|          |         | High   | 2480      | 0.79           | -45.36       | $\leq -19.21$ | PASS    |
|          |         | Low    | Hop_2402  | -2.77          | -46.22       | $\leq -22.77$ | PASS    |
|          |         | High   | Hop_2480  | -1.07          | -45.87       | $\leq -21.07$ | PASS    |

## Test Graphs

