

## Appendix A: 20dB Emission Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | 20db<br>EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|------------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402           | 0.951            | 2401.418 | 2402.369 | ---        | ---     |
|          |         | 2441           | 1.053            | 2440.340 | 2441.393 | ---        | ---     |
|          |         | 2480           | 1.050            | 2479.337 | 2480.387 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.341            | 2401.211 | 2402.552 | ---        | ---     |
|          |         | 2441           | 1.284            | 2440.241 | 2441.525 | ---        | ---     |
|          |         | 2480           | 1.284            | 2479.244 | 2480.528 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.257            | 2401.241 | 2402.498 | ---        | ---     |
|          |         | 2441           | 1.257            | 2440.238 | 2441.495 | ---        | ---     |
|          |         | 2480           | 1.257            | 2479.241 | 2480.498 | ---        | ---     |





2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



## 2DH5\_Ant1\_2480



## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



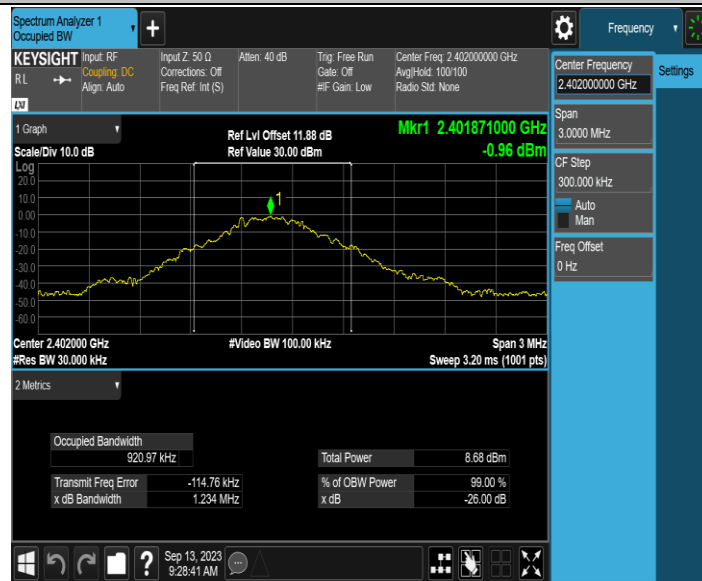
## Appendix B: Occupied Channel Bandwidth

### Test Result

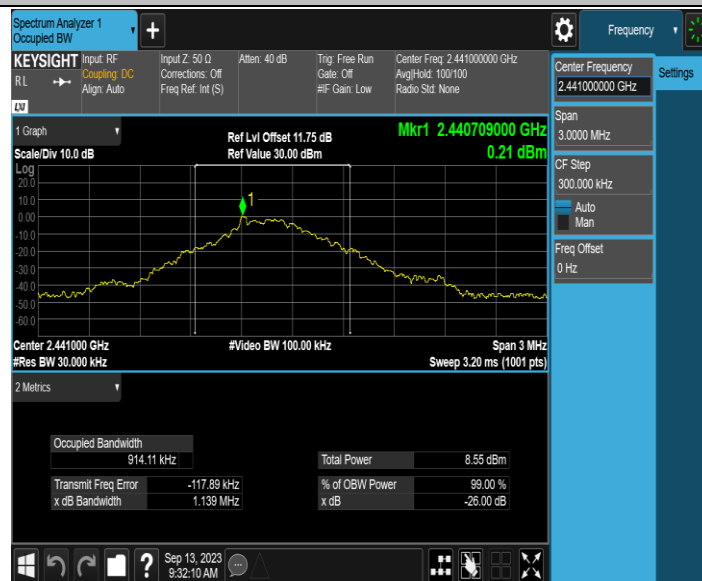
| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| DH5      | Ant1    | 2402           | 0.92097   | 2401.4248 | 2402.3457 | ---        | ---     |
|          |         | 2441           | 0.91411   | 2440.4251 | 2441.3392 | ---        | ---     |
|          |         | 2480           | 0.93118   | 2479.4128 | 2480.3440 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.1916    | 2401.2836 | 2402.4752 | ---        | ---     |
|          |         | 2441           | 1.1928    | 2440.2794 | 2441.4722 | ---        | ---     |
|          |         | 2480           | 1.1922    | 2479.2770 | 2480.4692 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.1824    | 2401.2895 | 2402.4719 | ---        | ---     |
|          |         | 2441           | 1.1807    | 2440.2890 | 2441.4697 | ---        | ---     |
|          |         | 2480           | 1.1907    | 2479.2778 | 2480.4685 | ---        | ---     |

## Test Graphs

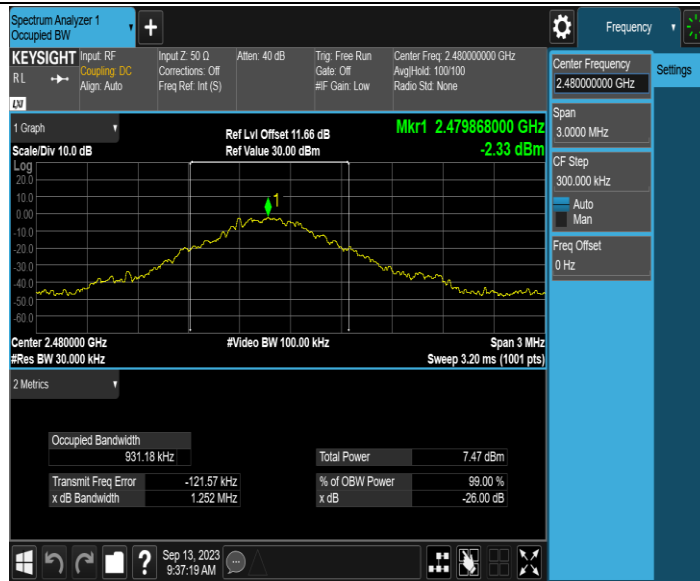
DH5\_Ant1\_2402



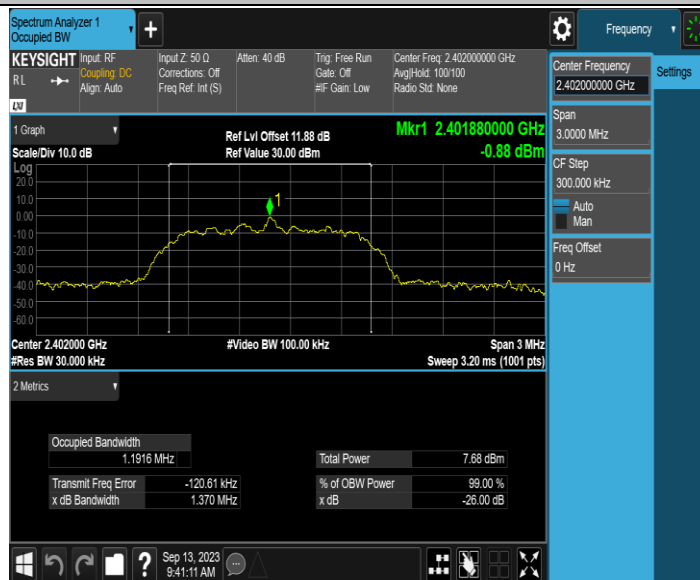
DH5\_Ant1\_2441



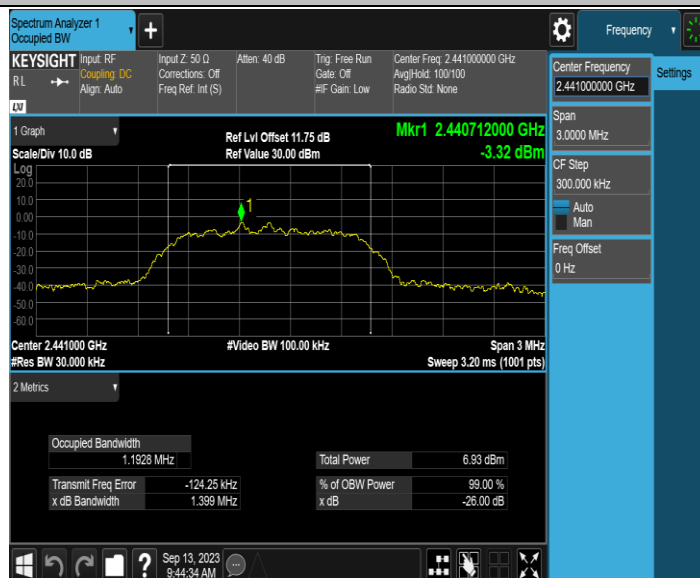
DH5\_Ant1\_2480



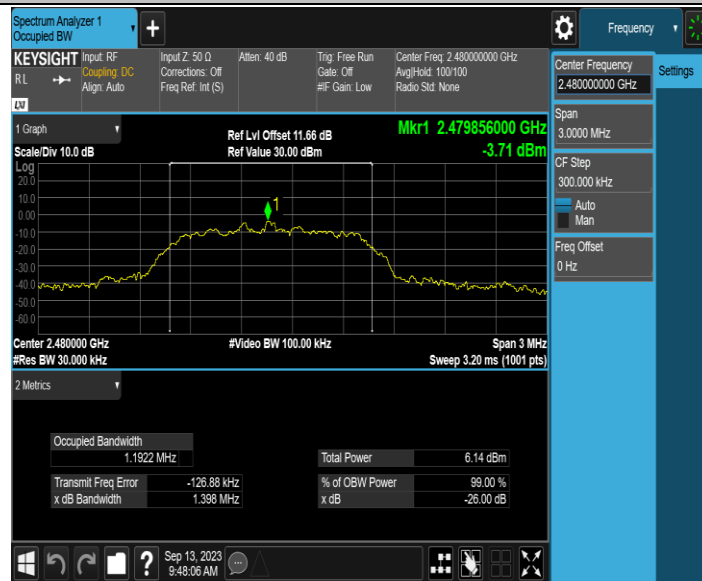
2DH5\_Ant1\_2402



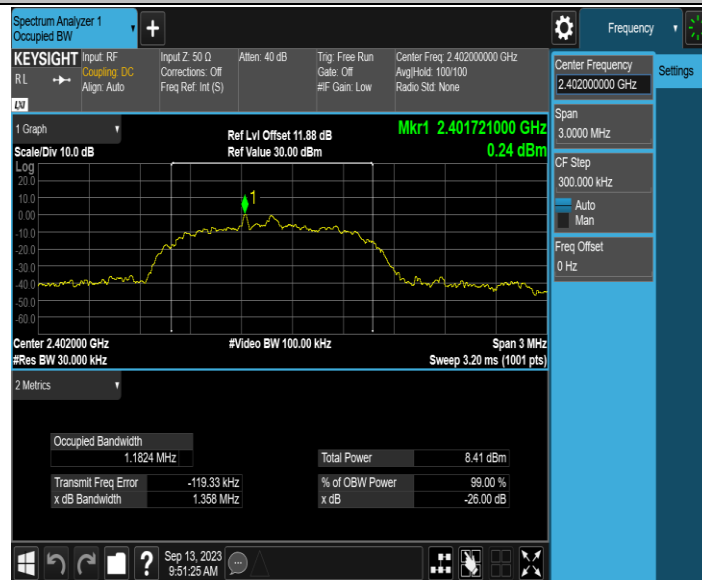
2DH5\_Ant1\_2441



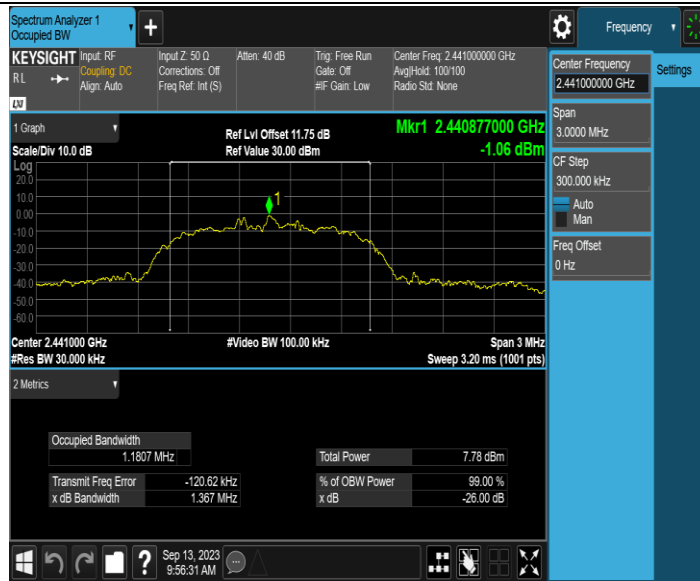
## 2DH5\_Ant1\_2480



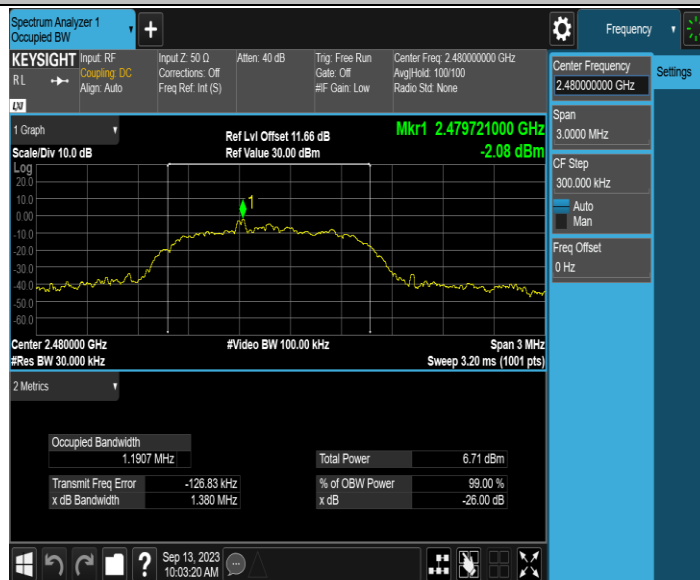
## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



## Appendix C: Maximum conducted output power

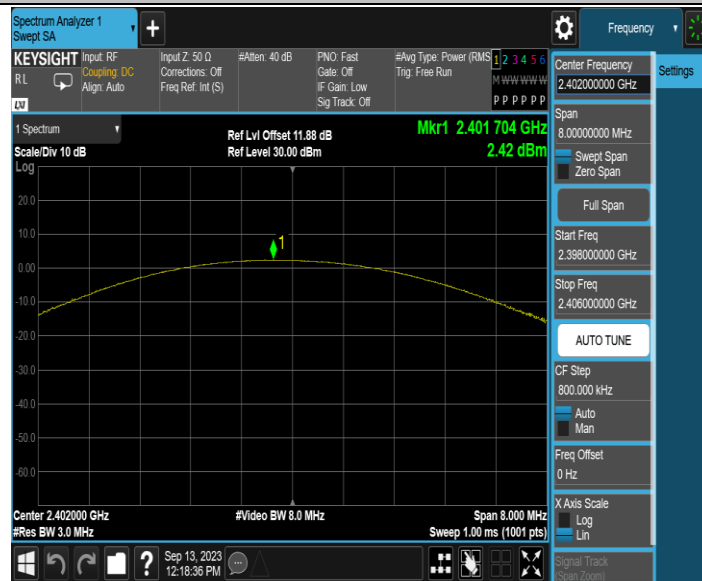
### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| DH5       | Ant1    | 2402           | 2.42                      | ≤20.97               | PASS    |
|           |         | 2441           | 1.91                      | ≤20.97               | PASS    |
|           |         | 2480           | 1.2                       | ≤20.97               | PASS    |
| 2DH5      | Ant1    | 2402           | 2.79                      | ≤20.97               | PASS    |
|           |         | 2441           | 2.28                      | ≤20.97               | PASS    |
|           |         | 2480           | 1.53                      | ≤20.97               | PASS    |
| 3DH5      | Ant1    | 2402           | 3.19                      | ≤20.97               | PASS    |
|           |         | 2441           | 2.63                      | ≤20.97               | PASS    |
|           |         | 2480           | 1.93                      | ≤20.97               | PASS    |

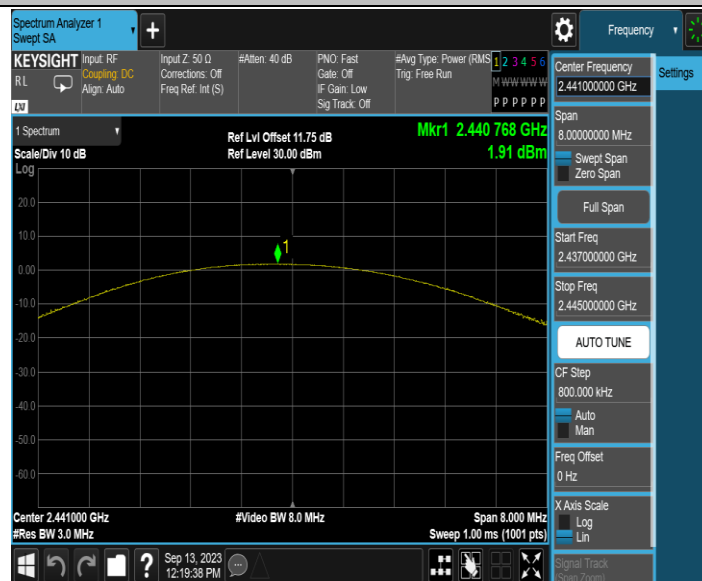
| Test Mode | Antenna | Frequency[MHz] | E.I.R.P[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|--------------|----------------------|---------|
| DH5       | Ant1    | 2402           | 4.13         | ≤36                  | PASS    |
|           |         | 2441           | 3.62         | ≤36                  | PASS    |
|           |         | 2480           | 2.91         | ≤36                  | PASS    |
| 2DH5      | Ant1    | 2402           | 4.5          | ≤36                  | PASS    |
|           |         | 2441           | 3.99         | ≤36                  | PASS    |
|           |         | 2480           | 3.24         | ≤36                  | PASS    |
| 3DH5      | Ant1    | 2402           | 4.9          | ≤36                  | PASS    |
|           |         | 2441           | 4.34         | ≤36                  | PASS    |
|           |         | 2480           | 3.64         | ≤36                  | PASS    |

## Test Graphs

DH5\_Ant1\_2402



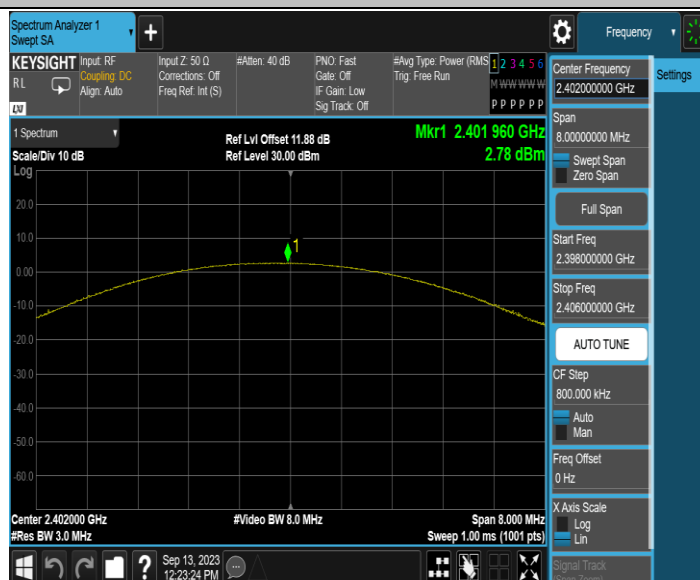
DH5\_Ant1\_2441



DH5\_Ant1\_2480



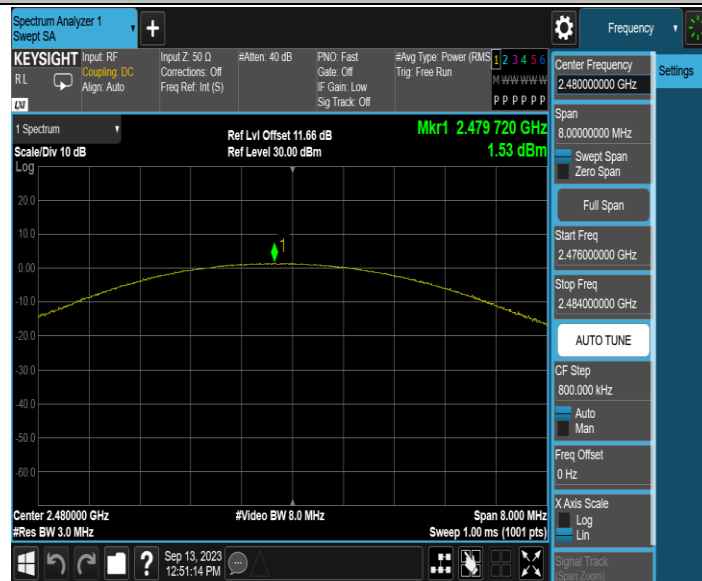
2DH5\_Ant1\_2402



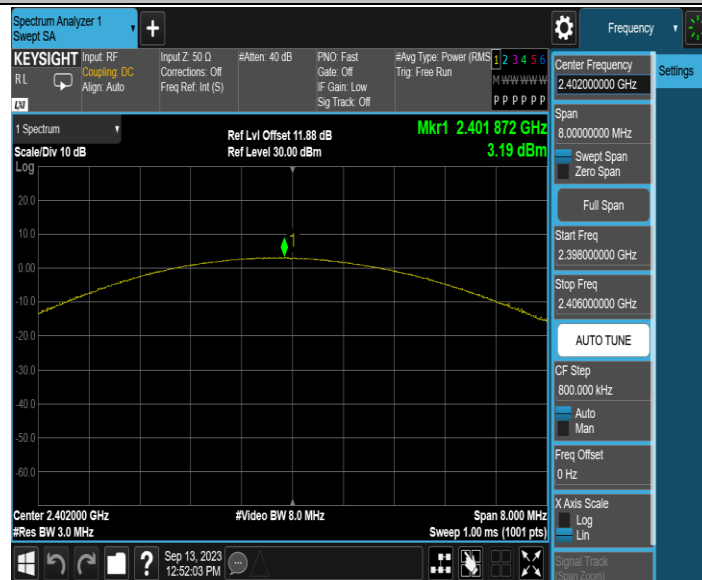
2DH5\_Ant1\_2441



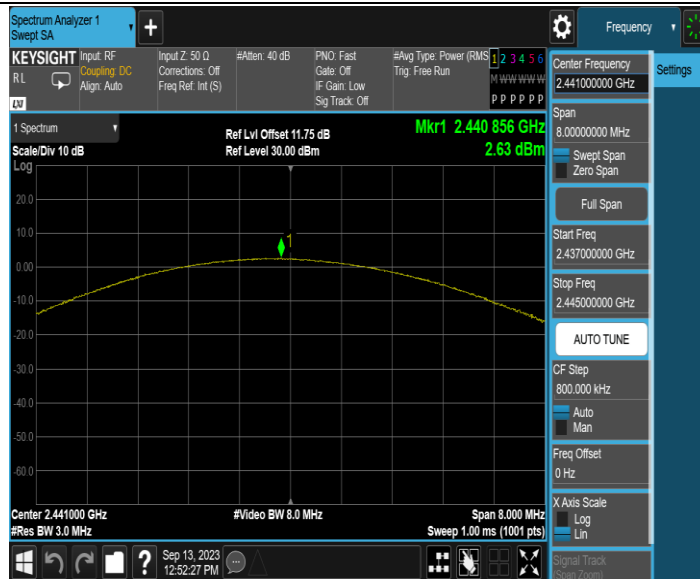
## 2DH5\_Ant1\_2480



## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



## Appendix D: Carrier frequency separation

### Test Result

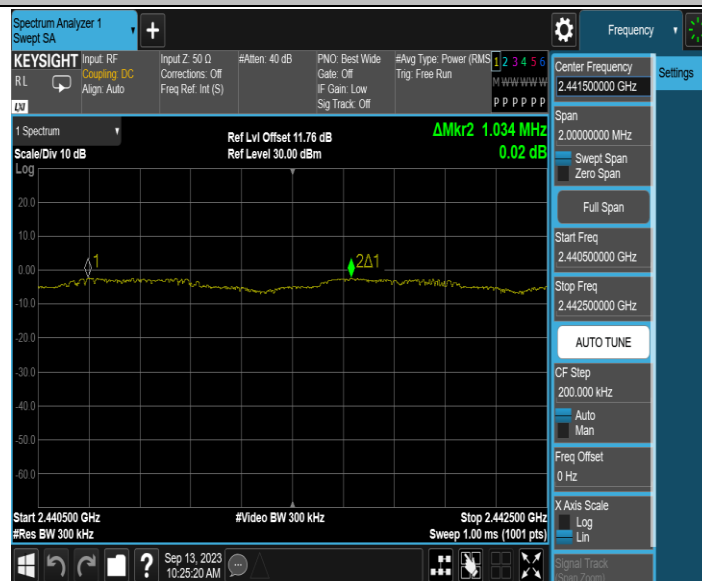
| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|----------------|-------------|--------------|---------|
| DH5      | Ant1    | Hop            | 1.006       | $\geq 0.702$ | PASS    |
| 2DH5     | Ant1    | Hop            | 1.034       | $\geq 0.894$ | PASS    |
| 3DH5     | Ant1    | Hop            | 1.012       | $\geq 0.838$ | PASS    |

## Test Graphs

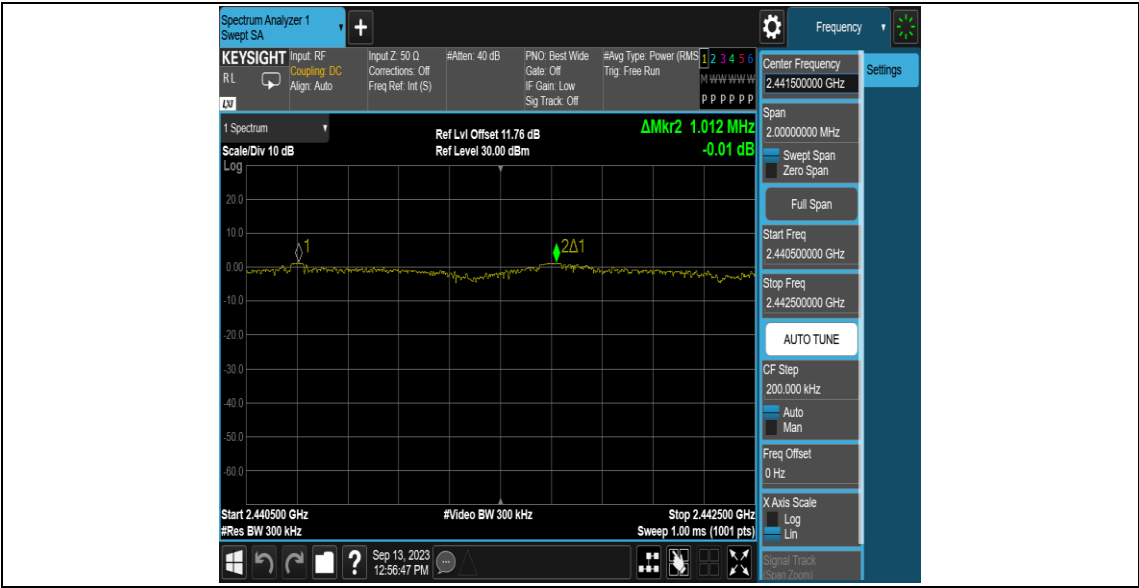
DH5\_Ant1\_Hop



2DH5\_Ant1\_Hop



3DH5\_Ant1\_Hop



## Appendix E: Time of occupancy

### Test Result

| TestMode | Antenna | Frequency[MHz] | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| DH5      | Ant1    | Hop            | 2.868              | 106.67             | 0.306     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop            | 2.880              | 106.67             | 0.307     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop            | 2.880              | 106.67             | 0.307     | ≤0.4     | PASS    |

The image displays two screenshots of a Spectrum Analyzer interface, showing signal analysis results for two different antennas: DH5\_Ant1\_Hop and 2DH5\_Ant1\_Hop.

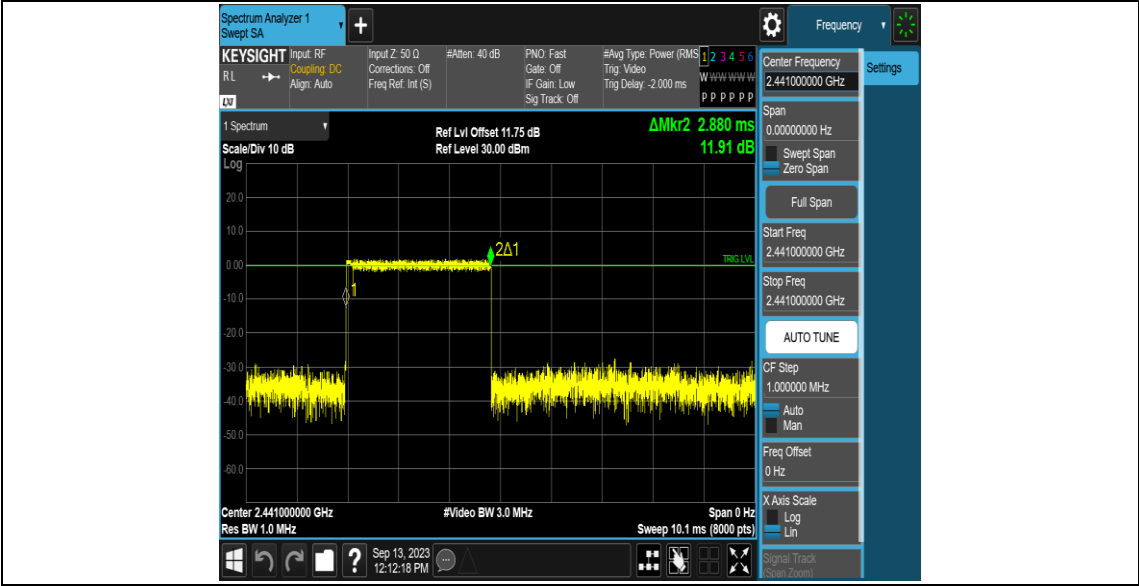
**Top Screenshot: DH5\_Ant1\_Hop**

- Center Frequency:** 2.441000000 GHz
- Span:** 0.000000000 Hz
- Start Freq:** 2.441000000 GHz
- Stop Freq:** 2.441000000 GHz
- CF Step:** 1.0000000 MHz
- Freq Offset:** 0 Hz
- X Axis Scale:** Log
- Signal Track:** (Sweep Zoom)
- Peak Level:** 8.51 dB
- Peak Label:** 2Δ1
- Ref Lvl Offset:** 11.75 dB
- Ref Level:** 30.00 dBm
- Video BW:** 3.0 MHz
- Sweep:** 10.1 ms (8000 pts)

**Bottom Screenshot: 2DH5\_Ant1\_Hop**

- Center Frequency:** 2.441000000 GHz
- Span:** 0.000000000 Hz
- Start Freq:** 2.441000000 GHz
- Stop Freq:** 2.441000000 GHz
- CF Step:** 1.0000000 MHz
- Freq Offset:** 0 Hz
- X Axis Scale:** Log
- Signal Track:** (Sweep Zoom)
- Peak Level:** 15.16 dB
- Peak Label:** 2Δ1
- Ref Lvl Offset:** 11.75 dB
- Ref Level:** 30.00 dBm
- Video BW:** 3.0 MHz
- Sweep:** 10.1 ms (8000 pts)

## 3DH5\_Ant1\_Hop



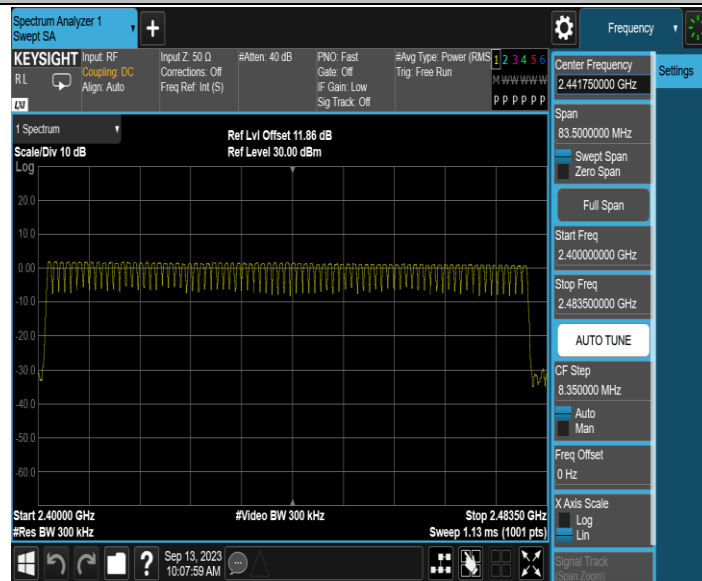
## Appendix F: Number of hopping channels

### Test Result

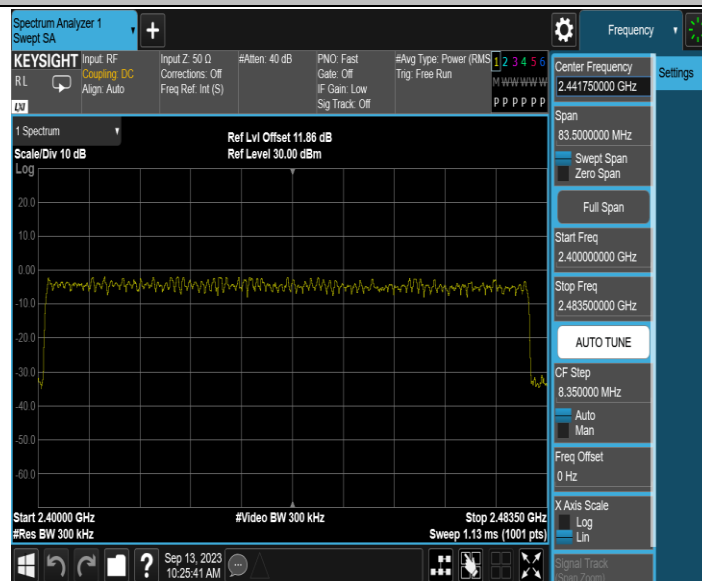
| TestMode | Antenna | Frequency[MHz] | Result[Num] | Limit[Num] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| DH5      | Ant1    | Hop            | 79          | ≥15        | PASS    |
| 2DH5     | Ant1    | Hop            | 79          | ≥15        | PASS    |
| 3DH5     | Ant1    | Hop            | 79          | ≥15        | PASS    |

## Test Graphs

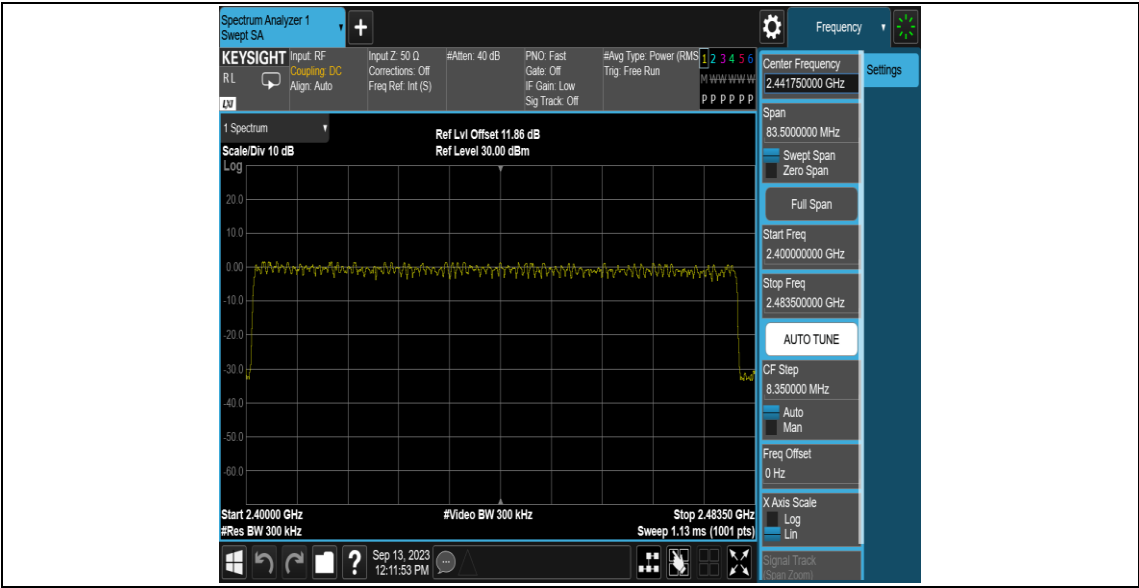
DH5\_Ant1\_Hop



2DH5\_Ant1\_Hop



3DH5\_Ant1\_Hop



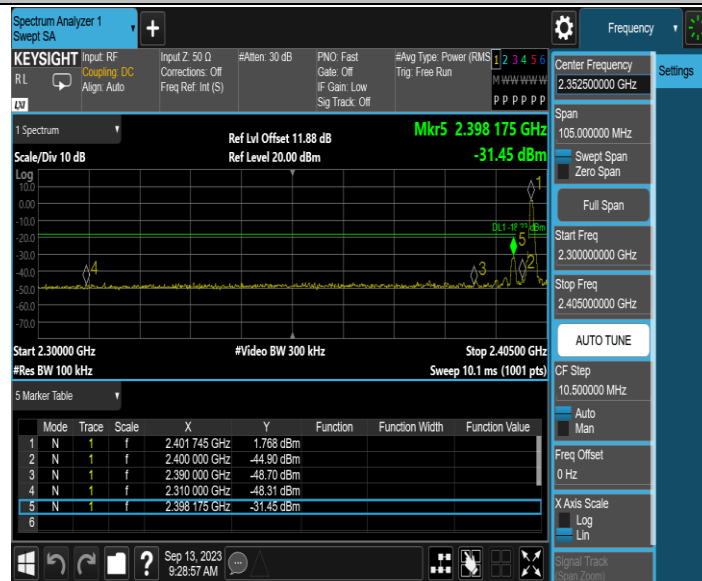
## Appendix G: Band edge measurements

### Test Result

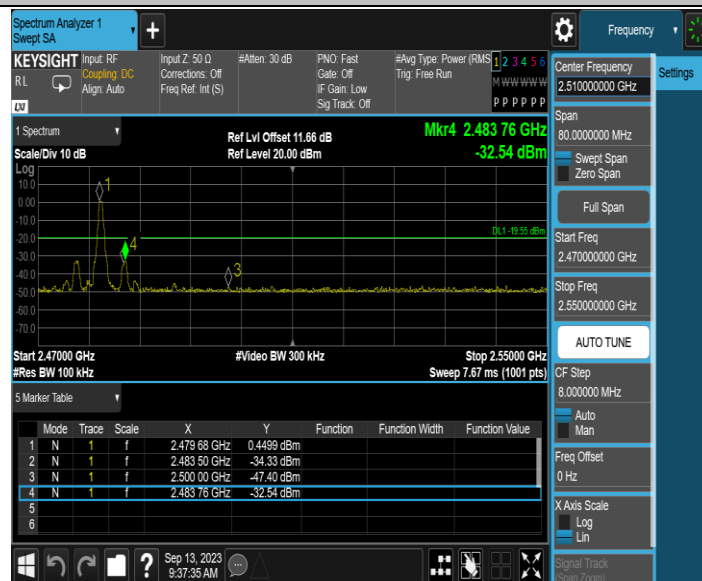
| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | Low    | 2402           | 1.77           | -31.45       | ≤-18.23     | PASS    |
|          |         | High   | 2480           | 0.45           | -32.54       | ≤-19.55     | PASS    |
|          |         | Low    | Hop_2402       | 1.53           | -46.05       | ≤-18.47     | PASS    |
|          |         | High   | Hop_2480       | -3.17          | -46.36       | ≤-23.17     | PASS    |
| 2DH5     | Ant1    | Low    | 2402           | 1.68           | -33.69       | ≤-18.32     | PASS    |
|          |         | High   | 2480           | -0.01          | -33.86       | ≤-20.01     | PASS    |
|          |         | Low    | Hop_2402       | -3.30          | -46.37       | ≤-23.3      | PASS    |
|          |         | High   | Hop_2480       | 0.50           | -46.27       | ≤-19.5      | PASS    |
| 3DH5     | Ant1    | Low    | 2402           | 1.61           | -33.14       | ≤-18.39     | PASS    |
|          |         | High   | 2480           | 0.36           | -34.16       | ≤-19.64     | PASS    |
|          |         | Low    | Hop_2402       | 1.50           | -46.06       | ≤-18.5      | PASS    |
|          |         | High   | Hop_2480       | 0.70           | -45.77       | ≤-19.31     | PASS    |

## Test Graphs

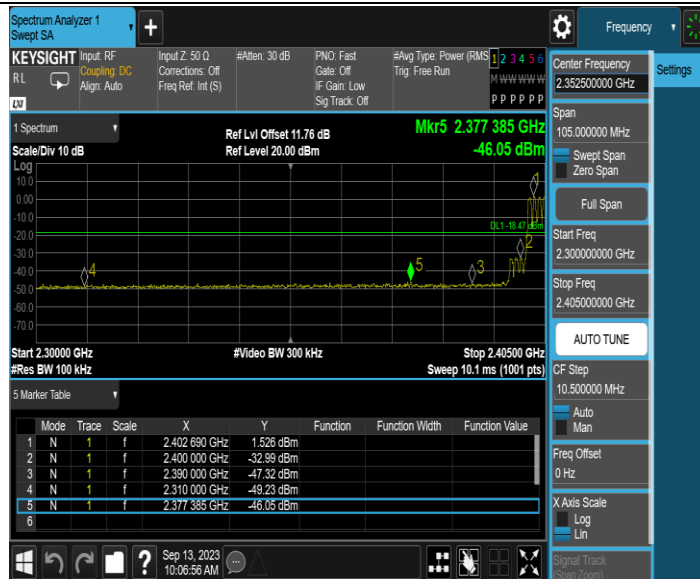
DH5\_Ant1\_Low\_2402



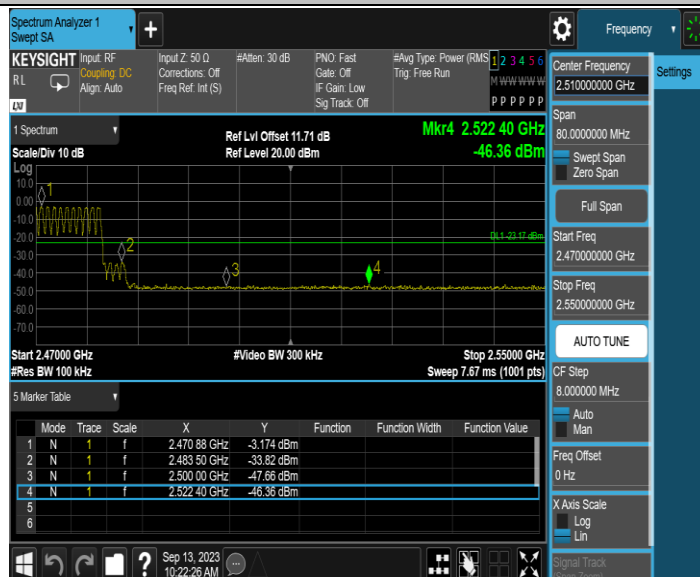
DH5\_Ant1\_High\_2480



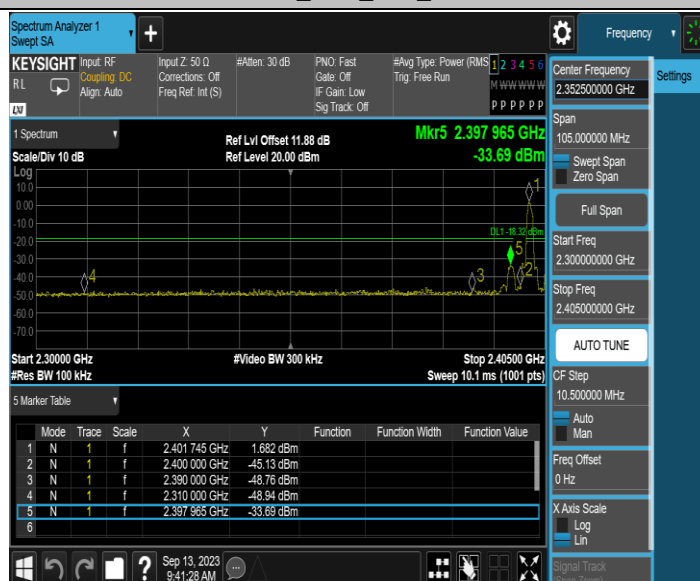
DH5\_Ant1\_Low\_Hop\_2402



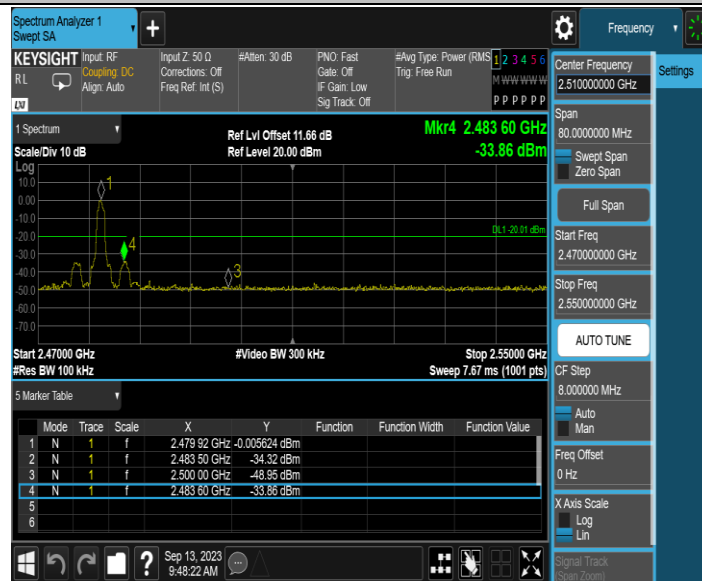
DH5\_Ant1\_High\_Hop\_2480



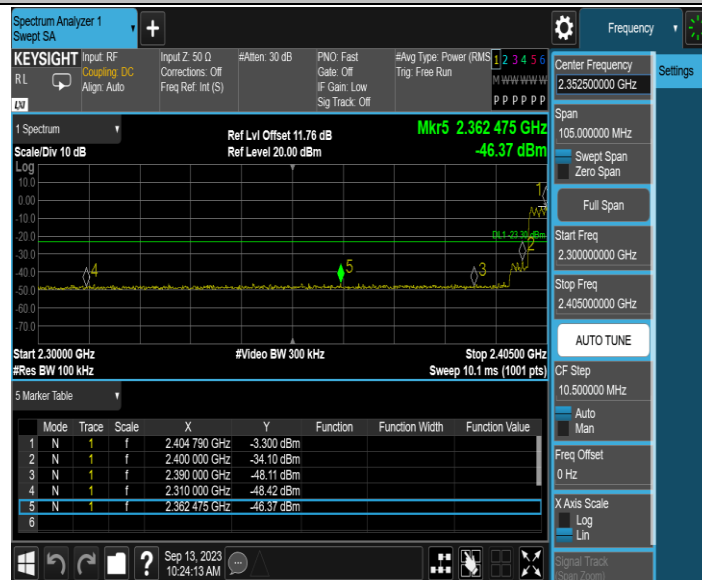
2DH5\_Ant1\_Low\_2402



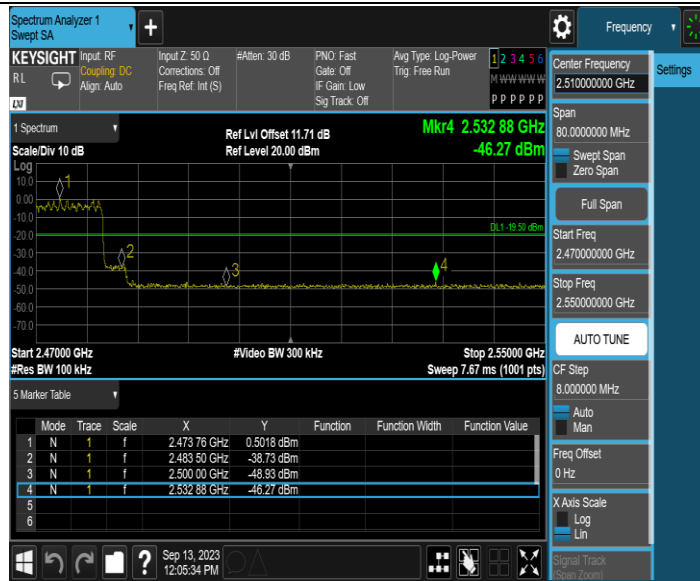
## 2DH5\_Ant1\_High\_2480



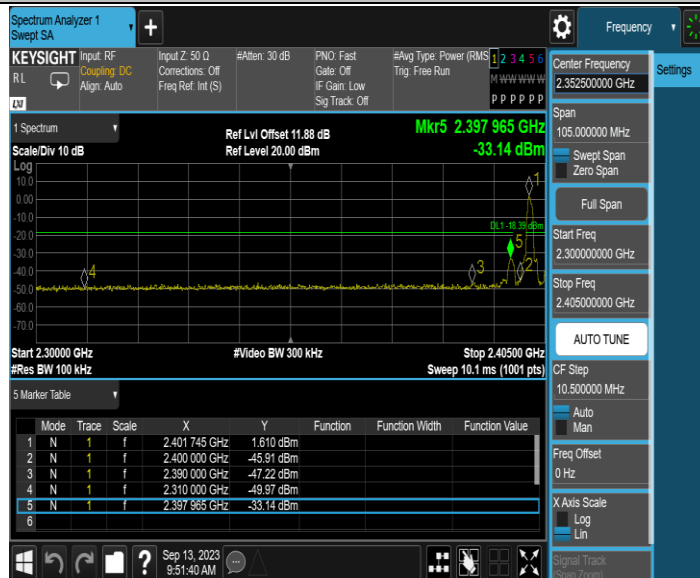
## 2DH5\_Ant1\_Low\_Hop\_2402



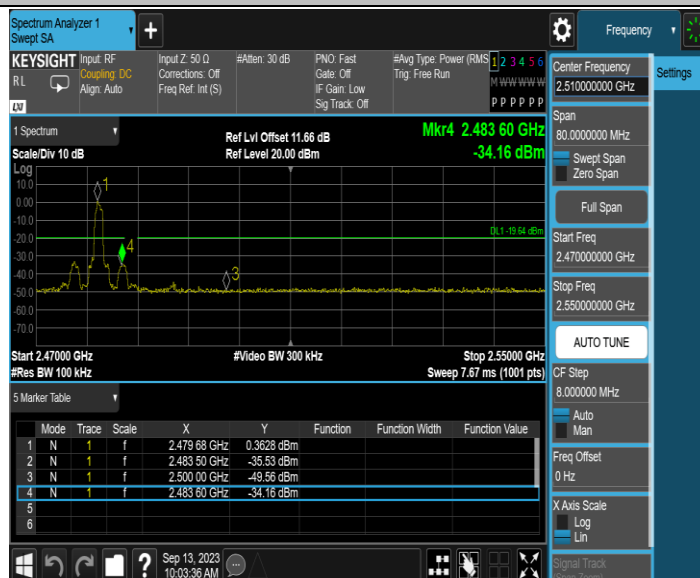
## 2DH5\_Ant1\_High\_Hop\_2480



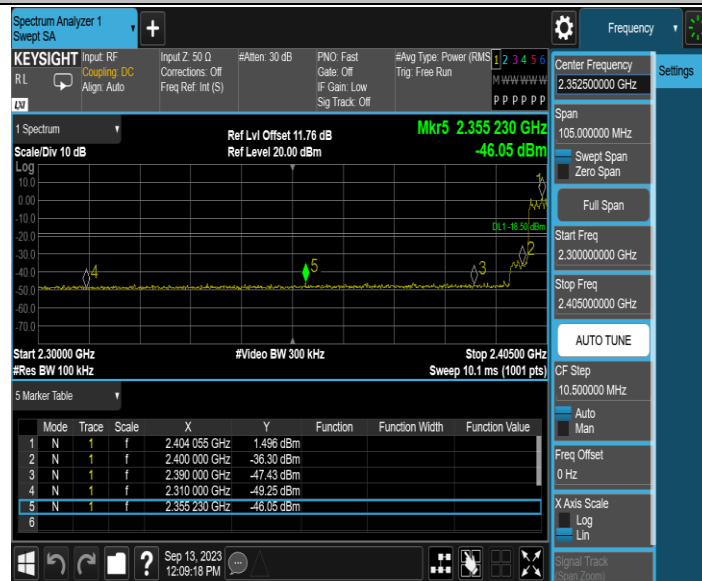
3DH5\_Ant1\_Low\_2402



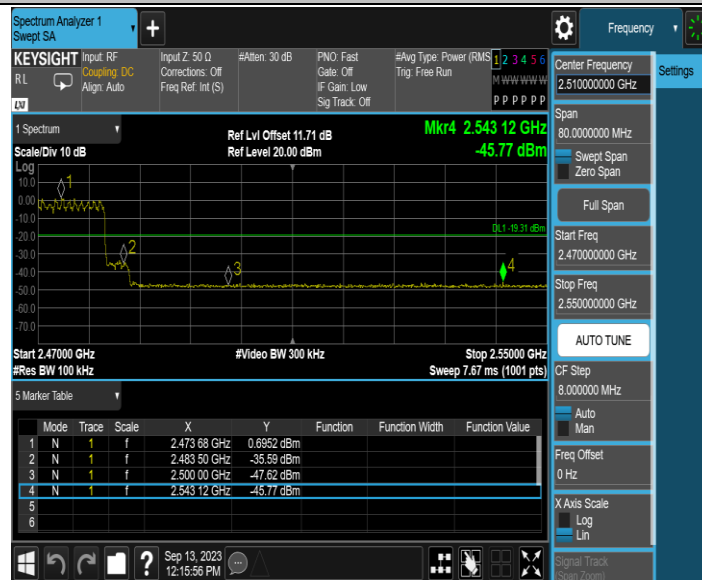
3DH5\_Ant1\_High\_2480



### 3DH5\_Ant1\_Low\_Hop\_2402



### 3DH5\_Ant1\_High\_Hop\_2480



## Appendix H: Conducted Spurious Emission

### Test Result

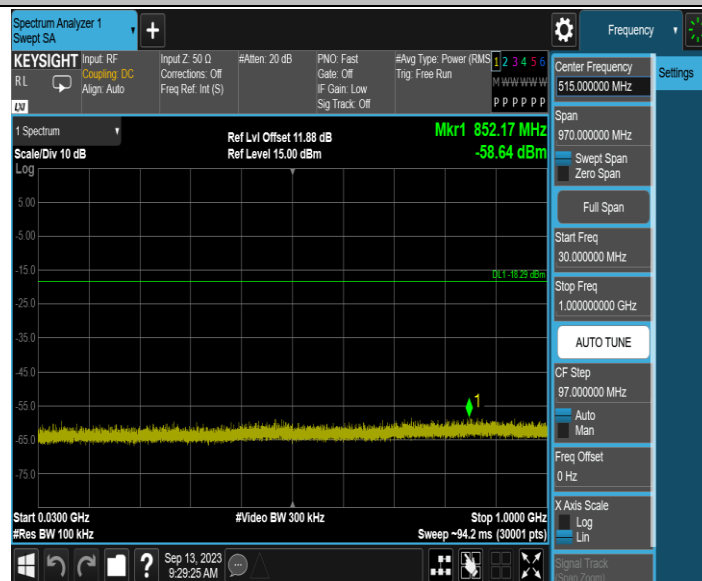
| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | 2402           | Reference       | 1.71           | 1.71         | ---         | PASS    |
|          |         |                | 30~1000         | 1.71           | -58.64       | ≤-18.29     | PASS    |
|          |         |                | 1000~26500      | 1.71           | -50.17       | ≤-18.29     | PASS    |
|          |         | 2441           | Reference       | 1.21           | 1.21         | ---         | PASS    |
|          |         |                | 30~1000         | 1.21           | -58.11       | ≤-18.79     | PASS    |
|          |         |                | 1000~26500      | 1.21           | -49.12       | ≤-18.79     | PASS    |
|          |         | 2480           | Reference       | 0.46           | 0.46         | ---         | PASS    |
|          |         |                | 30~1000         | 0.46           | -58.68       | ≤-19.54     | PASS    |
|          |         |                | 1000~26500      | 0.46           | -47.84       | ≤-19.54     | PASS    |
| 2DH5     | Ant1    | 2402           | Reference       | 1.58           | 1.58         | ---         | PASS    |
|          |         |                | 30~1000         | 1.58           | -57.97       | ≤-18.42     | PASS    |
|          |         |                | 1000~26500      | 1.58           | -48.89       | ≤-18.42     | PASS    |
|          |         | 2441           | Reference       | 1.00           | 1.00         | ---         | PASS    |
|          |         |                | 30~1000         | 1.00           | -58.27       | ≤-19        | PASS    |
|          |         |                | 1000~26500      | 1.00           | -49.83       | ≤-19        | PASS    |
|          |         | 2480           | Reference       | 0.25           | 0.25         | ---         | PASS    |
|          |         |                | 30~1000         | 0.25           | -57.67       | ≤-19.75     | PASS    |
|          |         |                | 1000~26500      | 0.25           | -48.03       | ≤-19.75     | PASS    |
| 3DH5     | Ant1    | 2402           | Reference       | 1.72           | 1.72         | ---         | PASS    |
|          |         |                | 30~1000         | 1.72           | -58.61       | ≤-18.28     | PASS    |
|          |         |                | 1000~26500      | 1.72           | -49.93       | ≤-18.28     | PASS    |
|          |         | 2441           | Reference       | 1.20           | 1.20         | ---         | PASS    |
|          |         |                | 30~1000         | 1.20           | -57.71       | ≤-18.8      | PASS    |
|          |         |                | 1000~26500      | 1.20           | -49.29       | ≤-18.8      | PASS    |
|          |         | 2480           | Reference       | 0.44           | 0.44         | ---         | PASS    |
|          |         |                | 30~1000         | 0.44           | -58.36       | ≤-19.56     | PASS    |
|          |         |                | 1000~26500      | 0.44           | -47.94       | ≤-19.56     | PASS    |

## Test Graphs

DH5\_Ant1\_2402\_0~Reference



DH5\_Ant1\_2402\_30~1000



DH5\_Ant1\_2402\_1000~26500



DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000

