

**RF Test Data for BT(BDR/EDR) (Conducted Measurement)****Product Name: MP3 Player****Trade Mark: N/A****Test Model: M301****FCC ID: 2ASNBM301****Environmental Conditions**

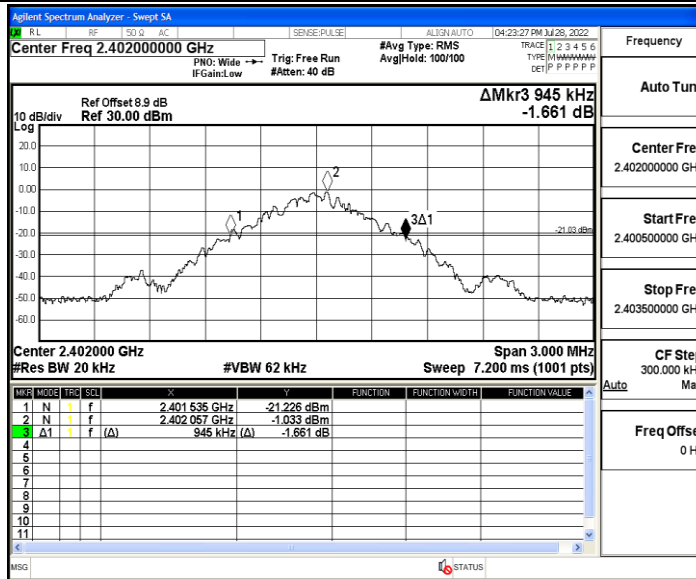
|                    |           |
|--------------------|-----------|
| Temperature:       | 25.5°C    |
| Relative Humidity: | 55%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Anna Hu   |
| Supervised by:     | Hugo Chen |
| NOTE               | N/A       |

**Appendix A: 20dB Emission Bandwidth****Test Result**

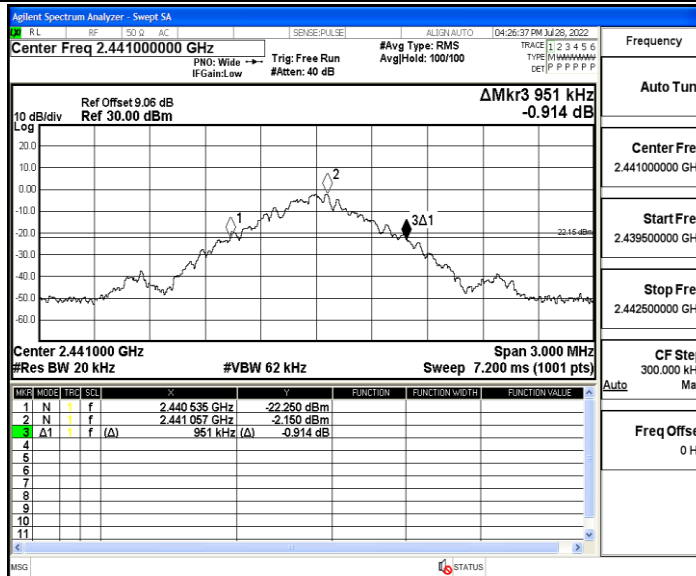
| TestMode | Antenna | Channel | 20db EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|---------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402    | 0.945         | 2401.535 | 2402.480 | ---        | ---     |
|          |         | 2441    | 0.951         | 2440.535 | 2441.486 | ---        | ---     |
|          |         | 2480    | 0.954         | 2479.532 | 2480.486 | ---        | ---     |
| 2DH5     | Ant1    | 2402    | 1.305         | 2401.340 | 2402.645 | ---        | ---     |
|          |         | 2441    | 1.341         | 2440.328 | 2441.669 | ---        | ---     |
|          |         | 2480    | 1.326         | 2479.334 | 2480.660 | ---        | ---     |
| 3DH5     | Ant1    | 2402    | 1.278         | 2401.349 | 2402.627 | ---        | ---     |
|          |         | 2441    | 1.254         | 2440.358 | 2441.612 | ---        | ---     |
|          |         | 2480    | 1.266         | 2479.352 | 2480.618 | ---        | ---     |

## Test Graphs

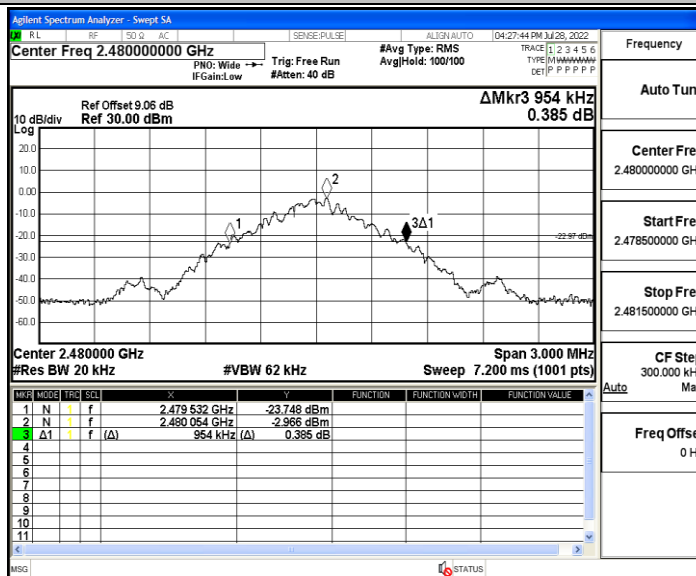
DH5\_Ant1\_2402



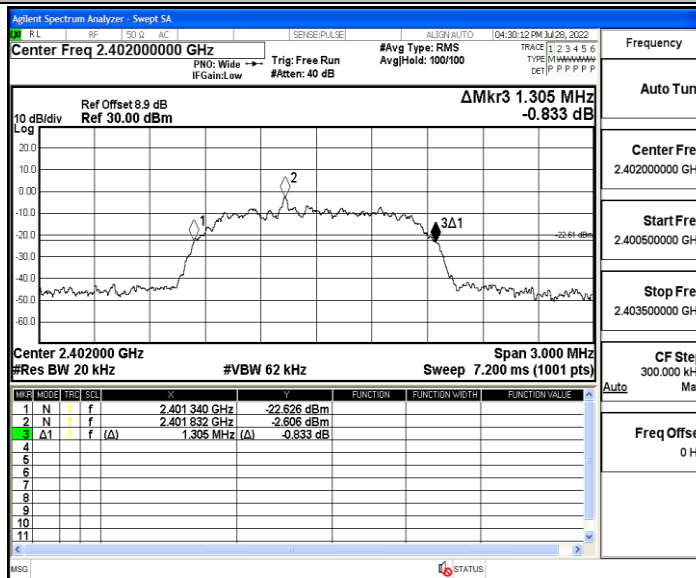
DH5\_Ant1\_2441



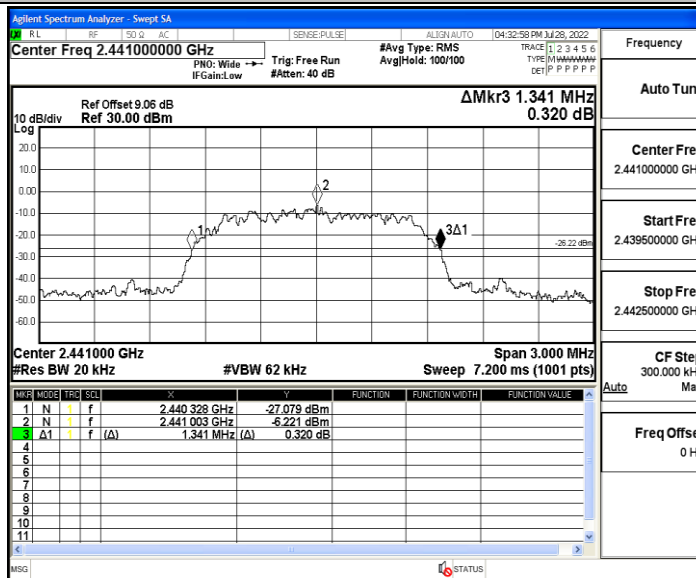
DH5\_Ant1\_2480



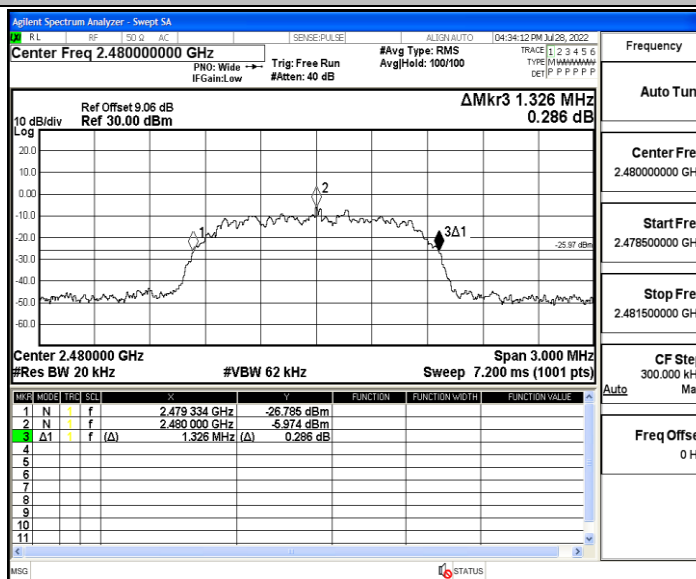
## 2DH5\_Ant1\_2402



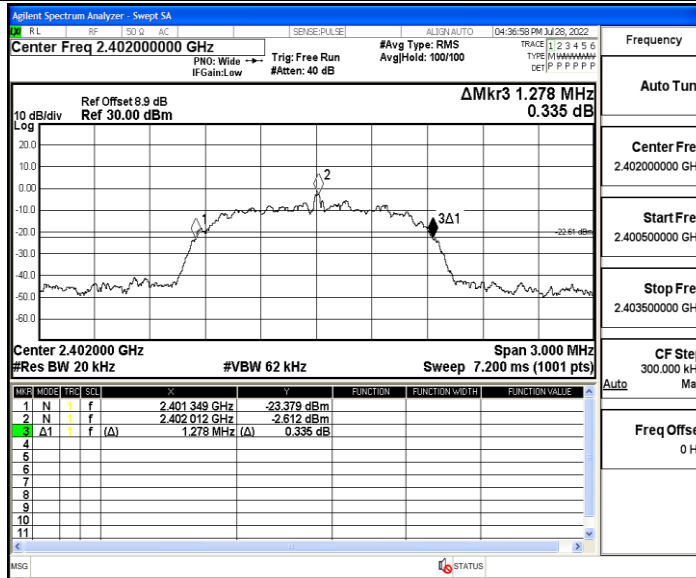
## 2DH5\_Ant1\_2441



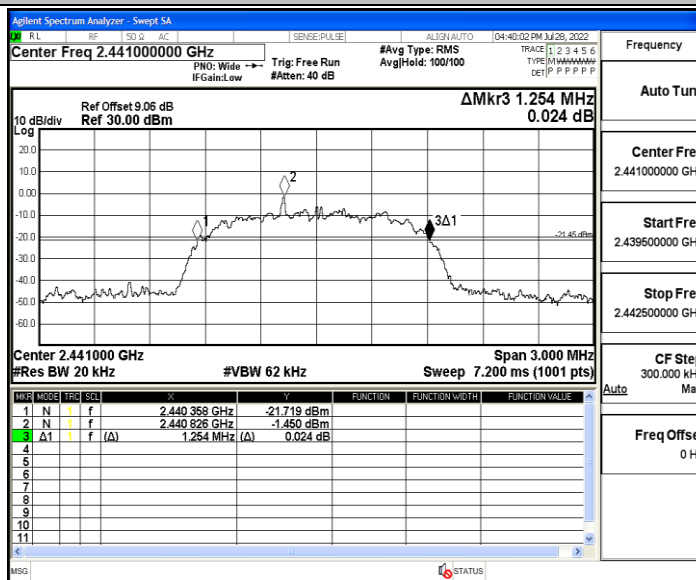
## 2DH5\_Ant1\_2480



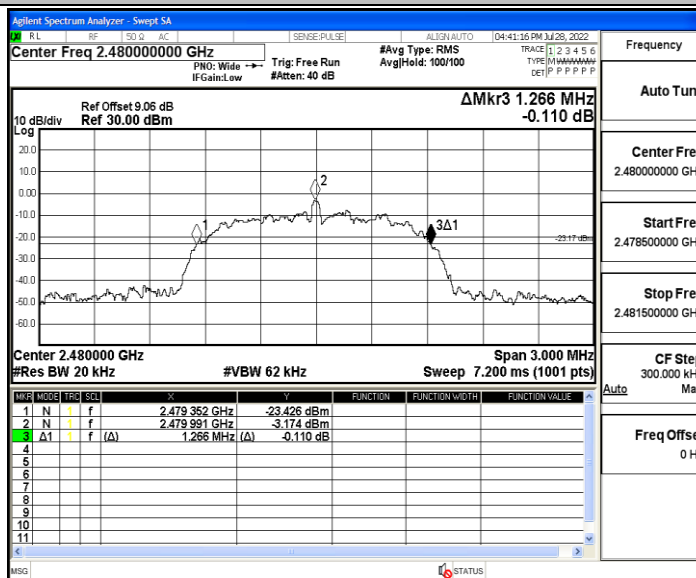
## 3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



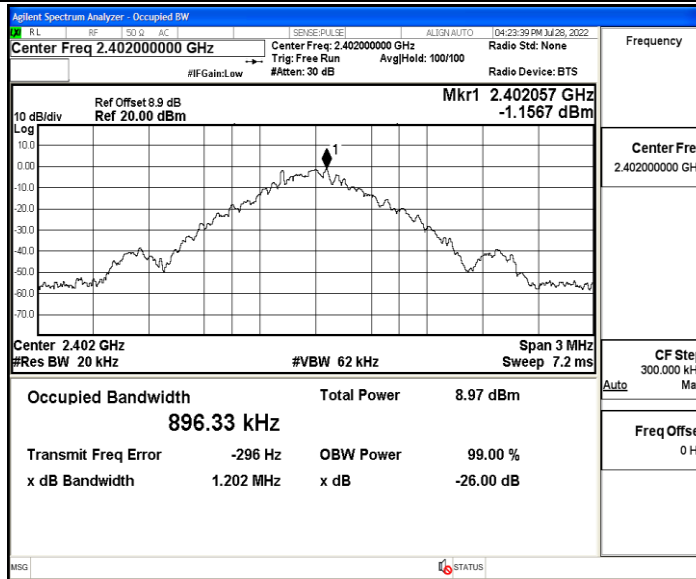
## Appendix B: Occupied Channel Bandwidth

### Test Result

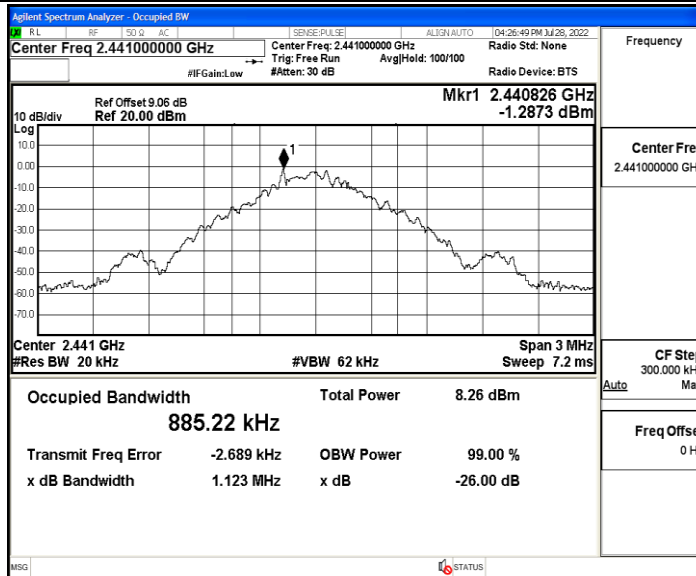
| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402    | 0.89633   | 2401.552 | 2402.448 | ---        | ---     |
|          |         | 2441    | 0.88522   | 2440.555 | 2441.440 | ---        | ---     |
|          |         | 2480    | 0.88695   | 2479.553 | 2480.440 | ---        | ---     |
| 2DH5     | Ant1    | 2402    | 1.1727    | 2401.408 | 2402.581 | ---        | ---     |
|          |         | 2441    | 1.1719    | 2440.405 | 2441.577 | ---        | ---     |
|          |         | 2480    | 1.1814    | 2479.404 | 2480.585 | ---        | ---     |
| 3DH5     | Ant1    | 2402    | 1.1737    | 2401.405 | 2402.579 | ---        | ---     |
|          |         | 2441    | 1.1718    | 2440.407 | 2441.579 | ---        | ---     |
|          |         | 2480    | 1.1684    | 2479.409 | 2480.578 | ---        | ---     |

## Test Graphs

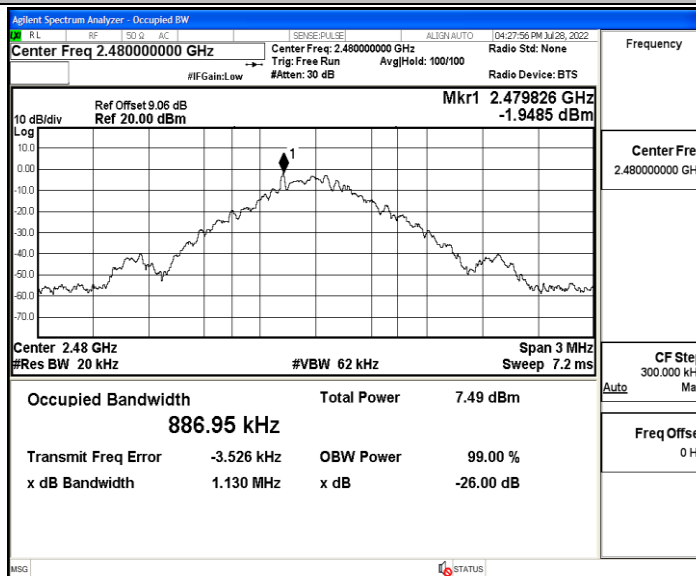
DH5\_Ant1\_2402



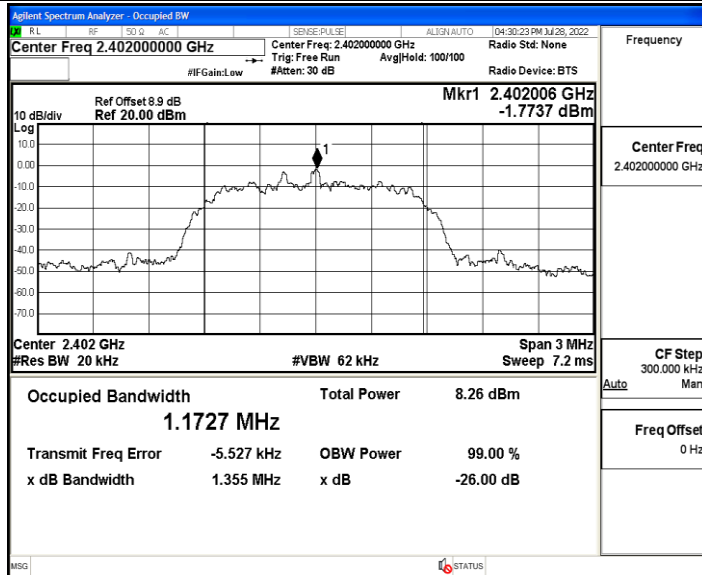
DH5\_Ant1\_2441



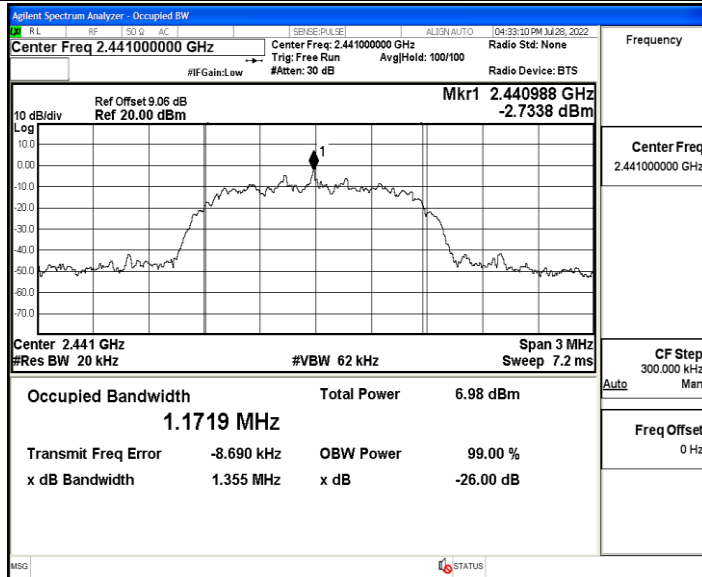
DH5\_Ant1\_2480



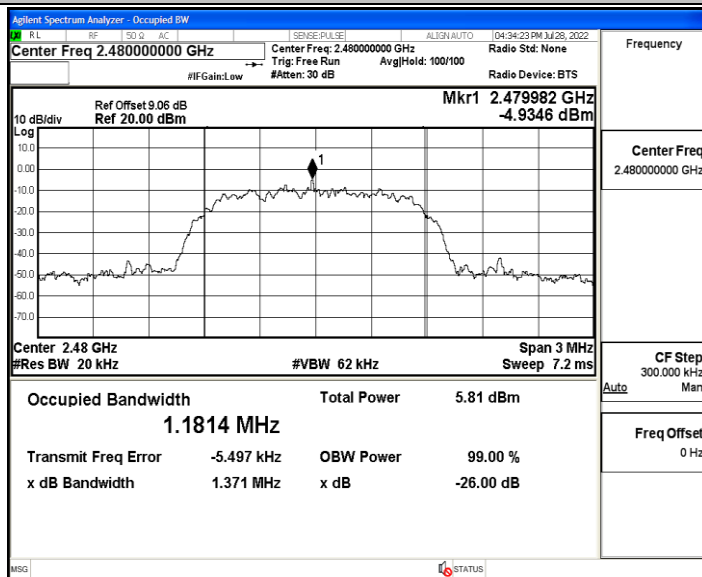
## 2DH5\_Ant1\_2402



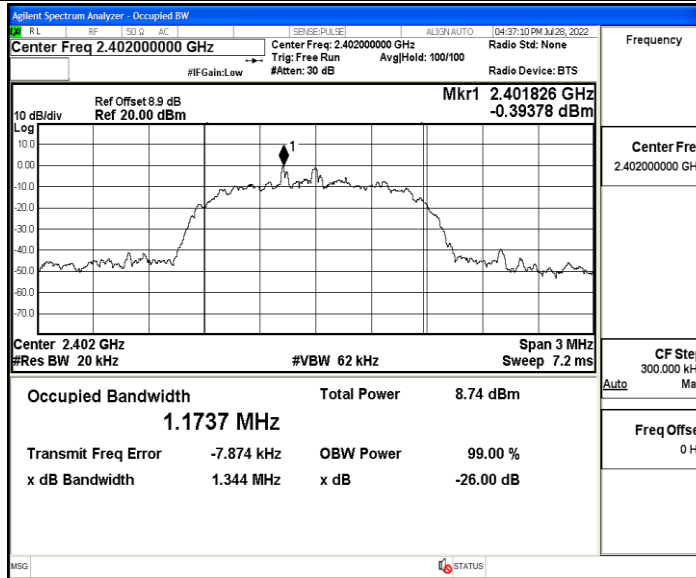
## 2DH5\_Ant1\_2441



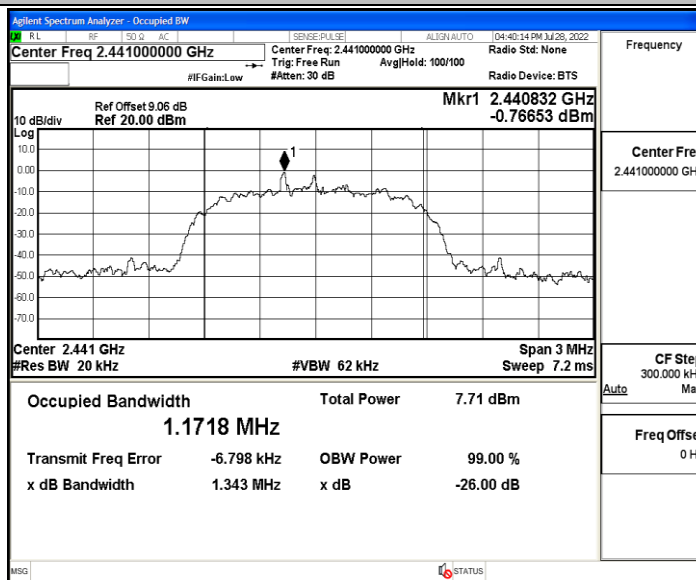
## 2DH5\_Ant1\_2480



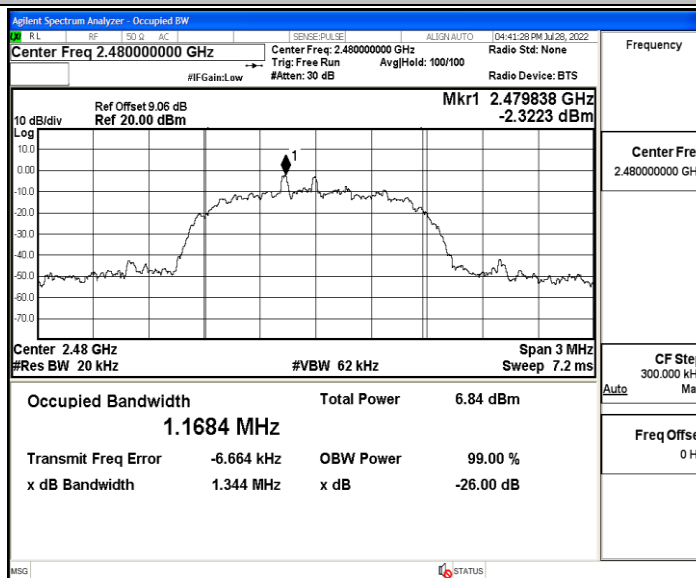
## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441



## 3DH5\_Ant1\_2480





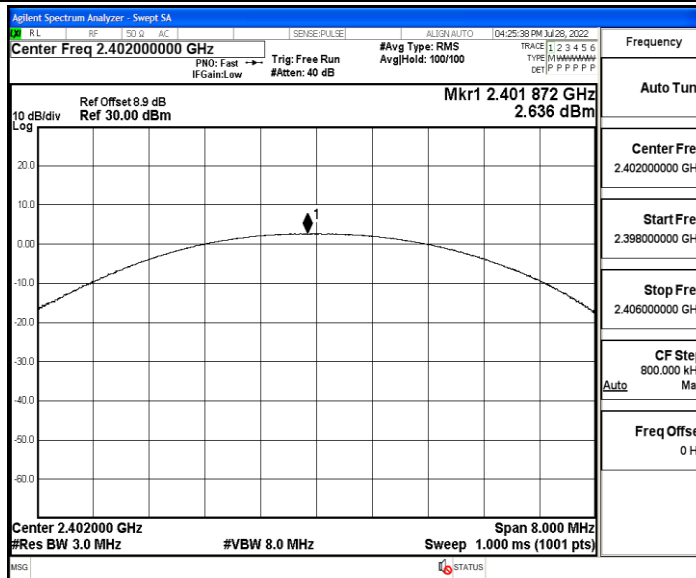
## Appendix C: Maximum Peak conducted output power

### Test Result

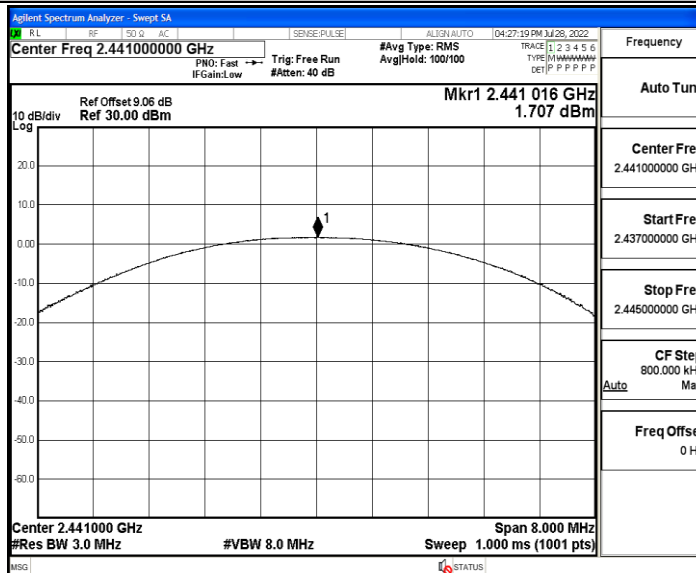
| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | 2402    | 2.64        | ≤30        | PASS    |
|          |         | 2441    | 1.71        | ≤30        | PASS    |
|          |         | 2480    | 0.88        | ≤30        | PASS    |
| 2DH5     | Ant1    | 2402    | 3.22        | ≤20.97     | PASS    |
|          |         | 2441    | 2.3         | ≤20.97     | PASS    |
|          |         | 2480    | 1.44        | ≤20.97     | PASS    |
| 3DH5     | Ant1    | 2402    | 3.82        | ≤20.97     | PASS    |
|          |         | 2441    | 2.83        | ≤20.97     | PASS    |
|          |         | 2480    | 1.97        | ≤20.97     | PASS    |

## Test Graphs

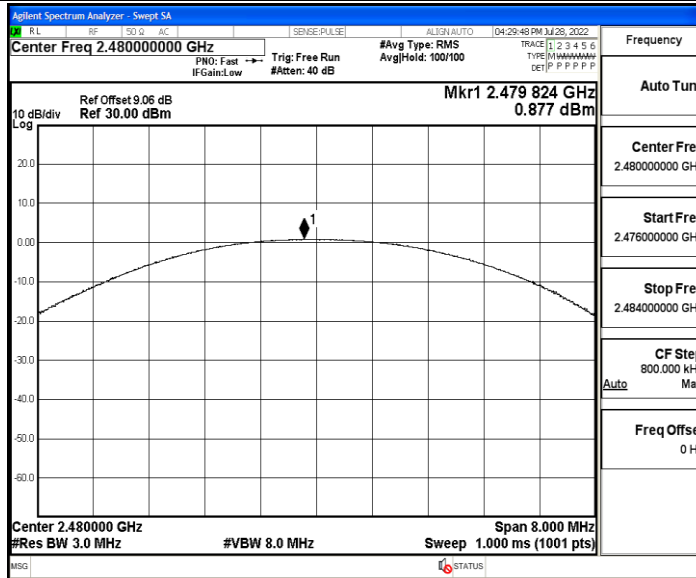
DH5\_Ant1\_2402



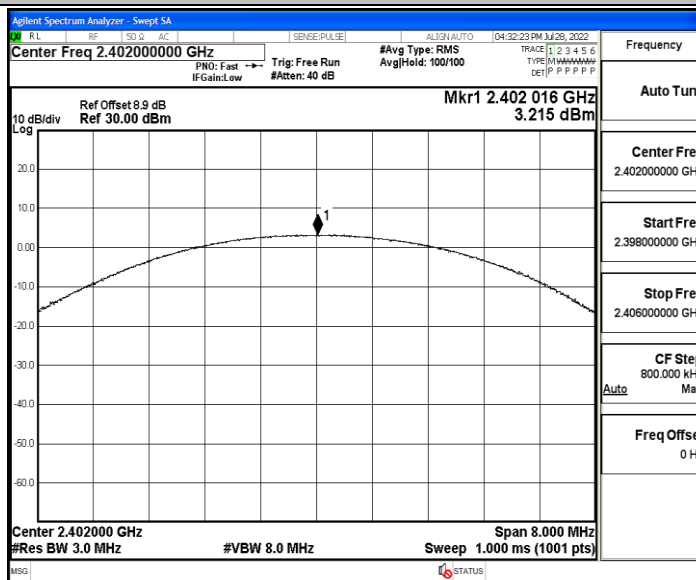
DH5\_Ant1\_2441



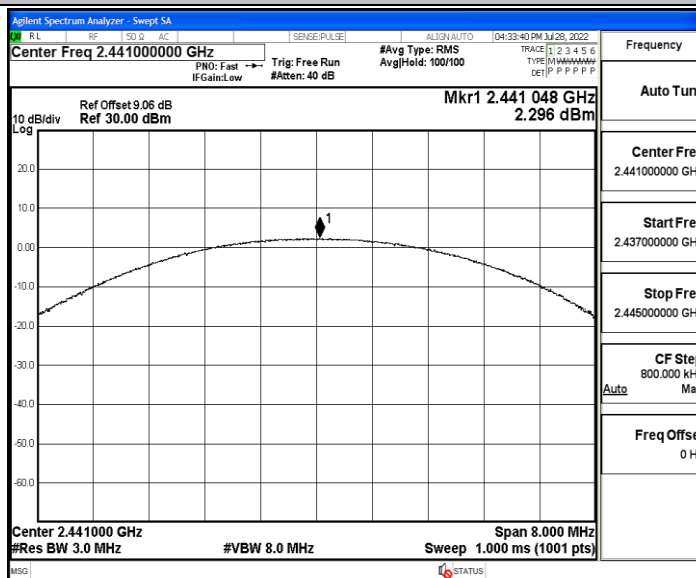
DH5\_Ant1\_2480



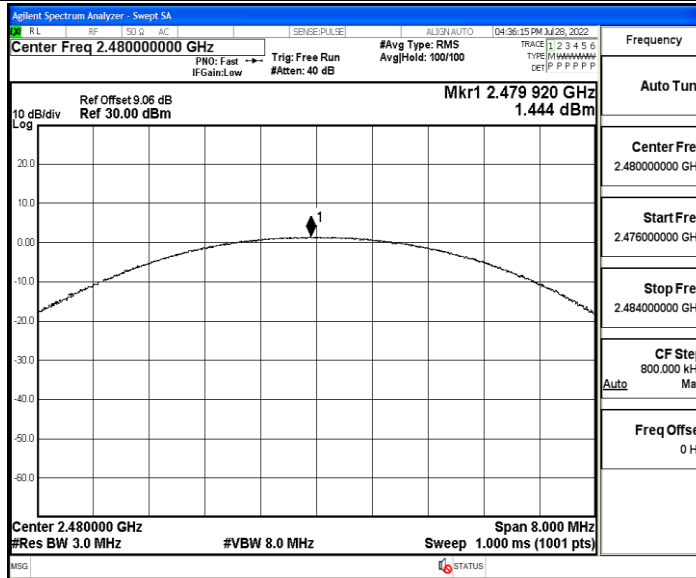
2DH5\_Ant1\_2402



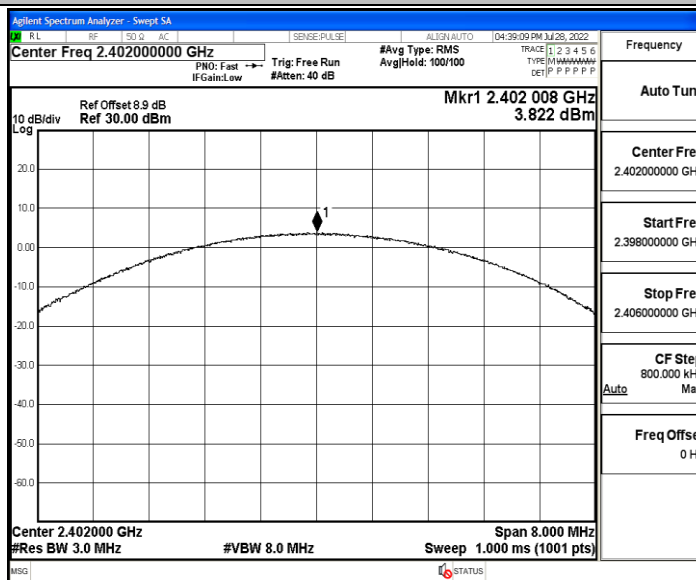
2DH5\_Ant1\_2441



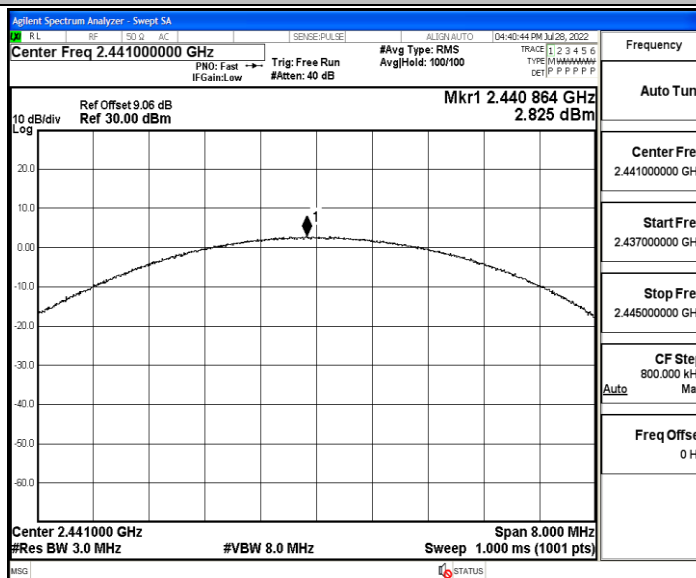
2DH5\_Ant1\_2480



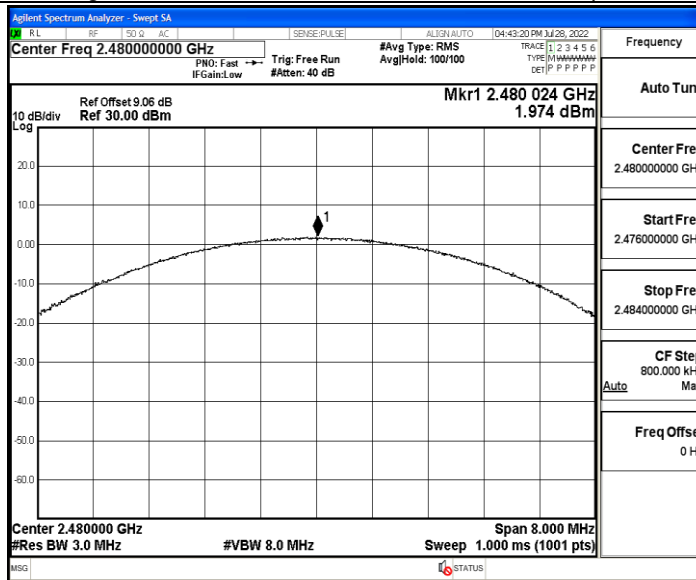
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

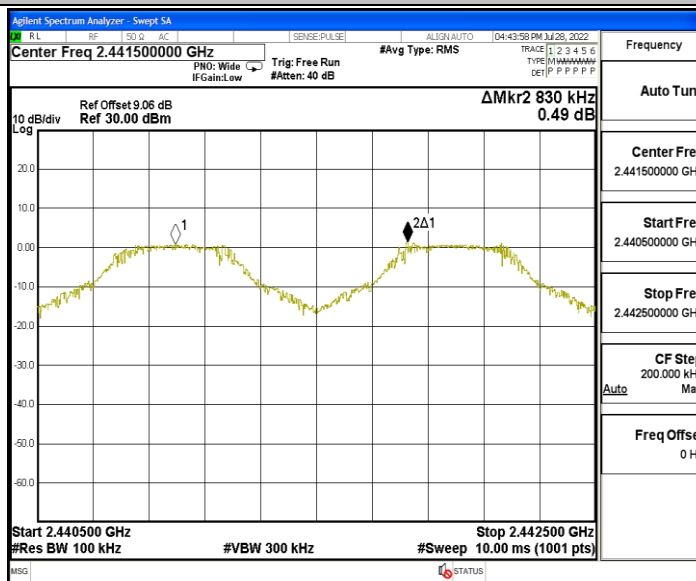


## Appendix D: Carrier frequency separation

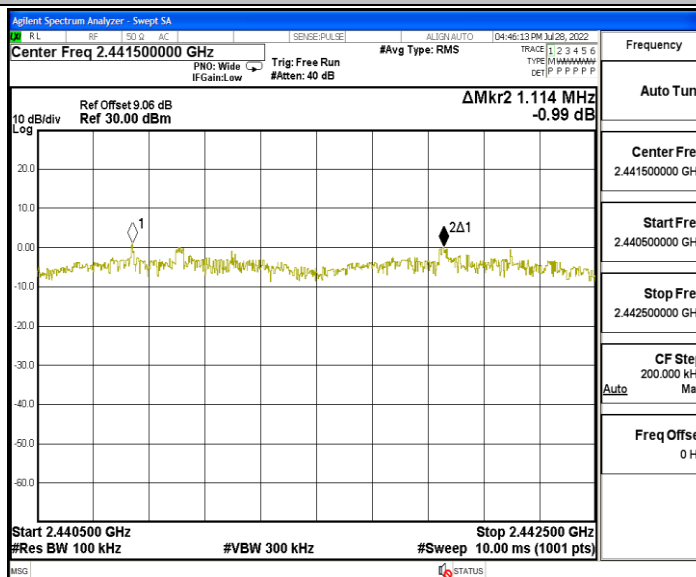
### Test Result

| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|---------|-------------|--------------|---------|
| DH5      | Ant1    | Hop     | 0.83        | $\geq 0.636$ | PASS    |
| 2DH5     | Ant1    | Hop     | 1.114       | $\geq 0.894$ | PASS    |
| 3DH5     | Ant1    | Hop     | 0.994       | $\geq 0.852$ | PASS    |

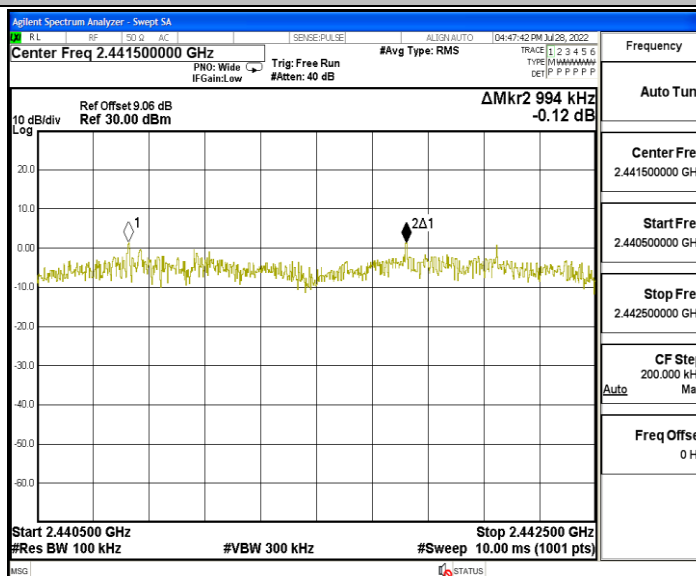
## DH5\_Ant1\_Hop



## 2DH5 Ant1 Hop



## 3DH5 Ant1 Hop



## Appendix E: Time of occupancy

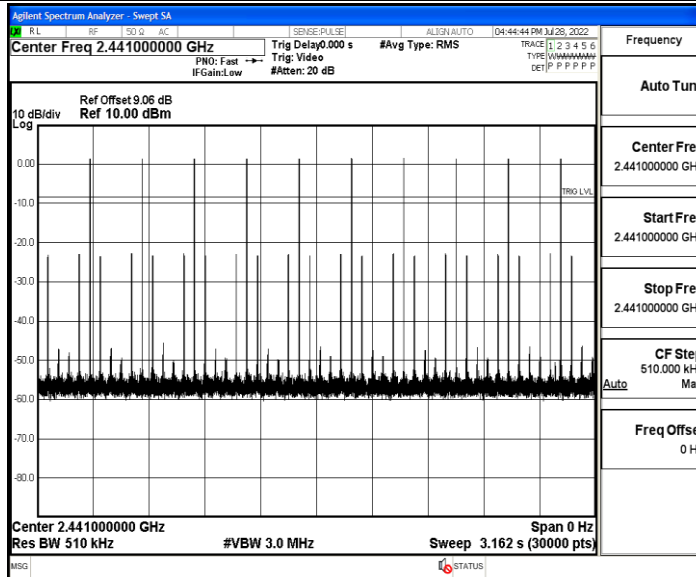
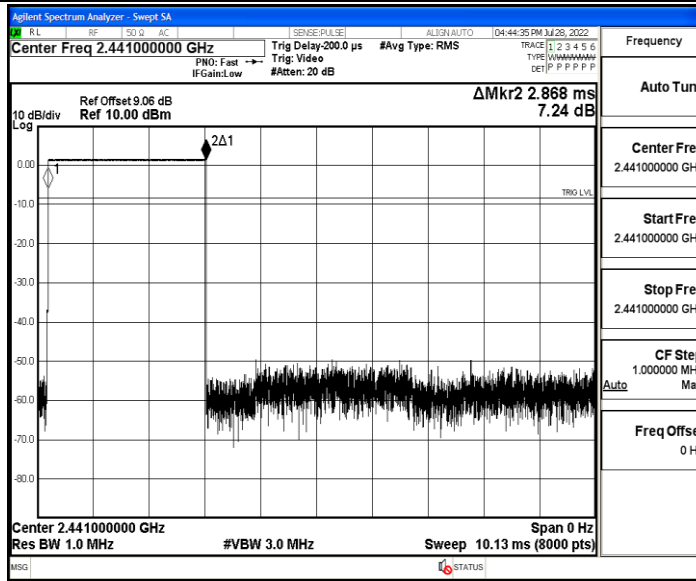
### Test Result

| TestMode | Antenna | Channel | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|---------|--------------------|--------------------|-----------|----------|---------|
| DH5      | Ant1    | Hop     | 2.87               | 110                | 0.315     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop     | 2.88               | 110                | 0.317     | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop     | 2.88               | 110                | 0.317     | ≤0.4     | PASS    |

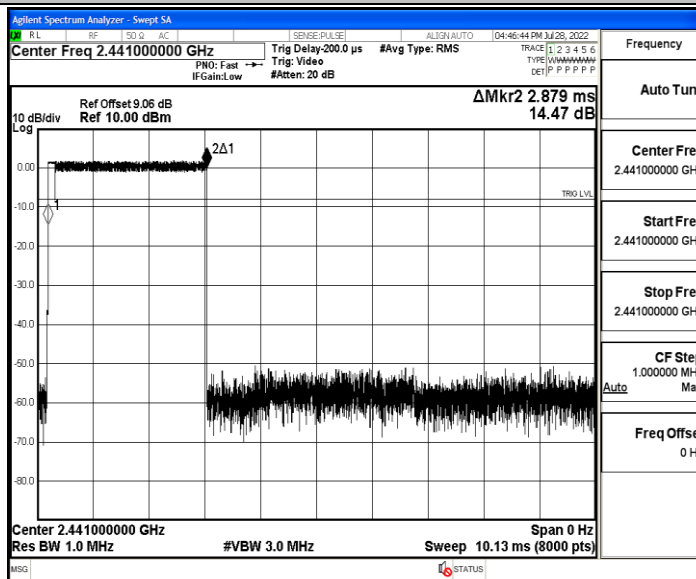


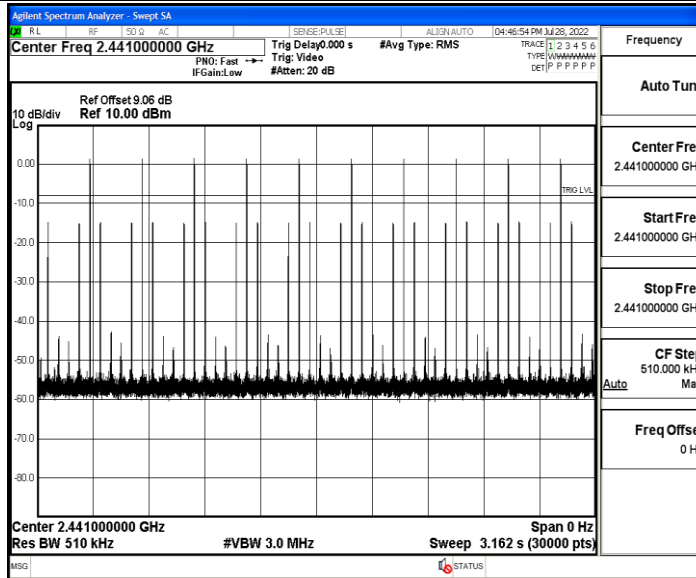
## Test Graphs

## DH5\_Ant1\_Hop

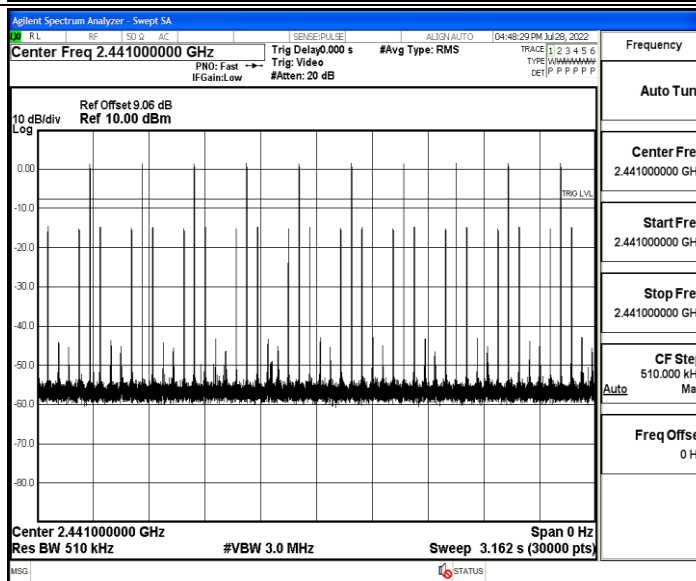
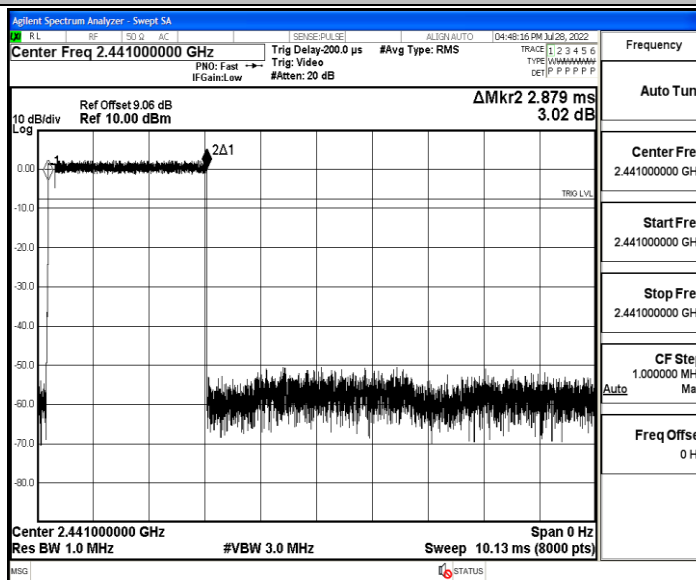


## 2DH5\_Ant1\_Hop





## 3DH5\_Ant1\_Hop



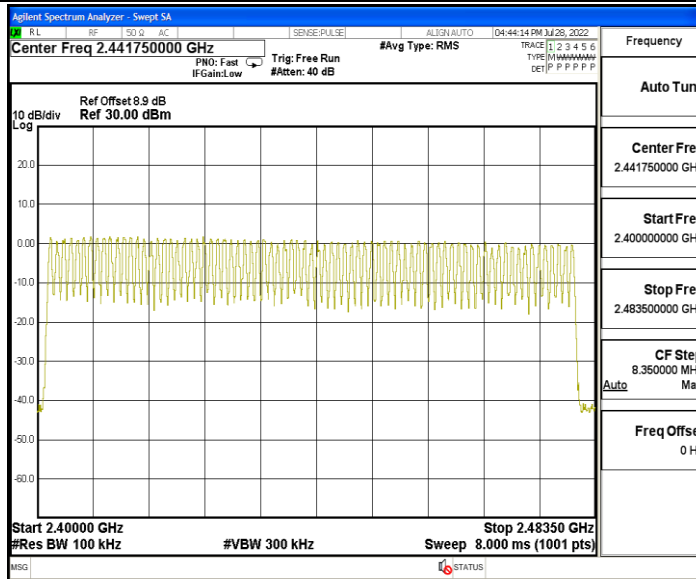
## Appendix F: Number of hopping channels

### Test Result

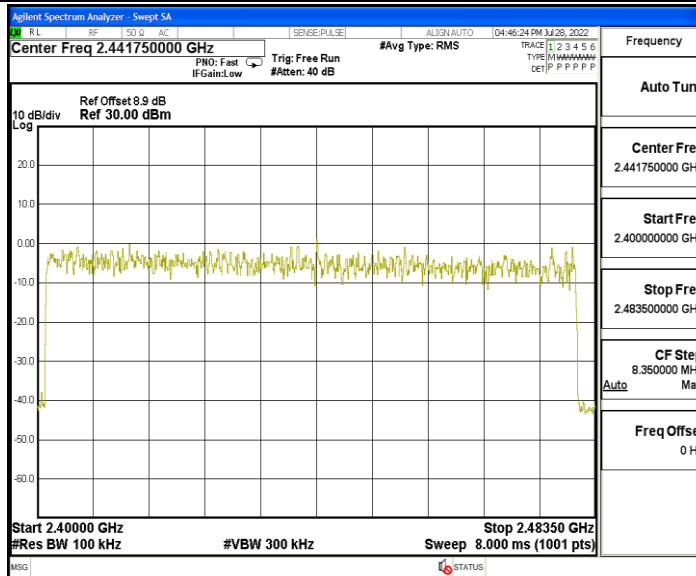
| TestMode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | Hop     | 79          | ≥15        | PASS    |
| 2DH5     | Ant1    | Hop     | 79          | ≥15        | PASS    |
| 3DH5     | Ant1   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

## Test Graphs

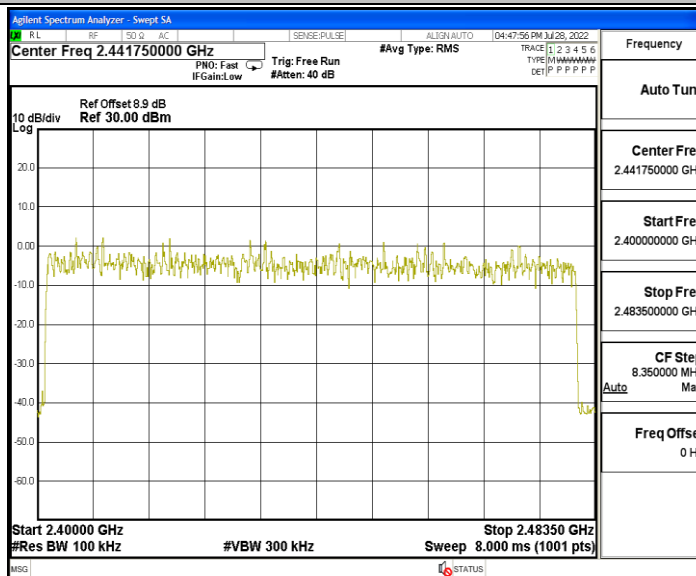
DH5\_Ant1\_Hop



2DH5\_Ant1\_Hop



3DH5\_Ant1\_Hop



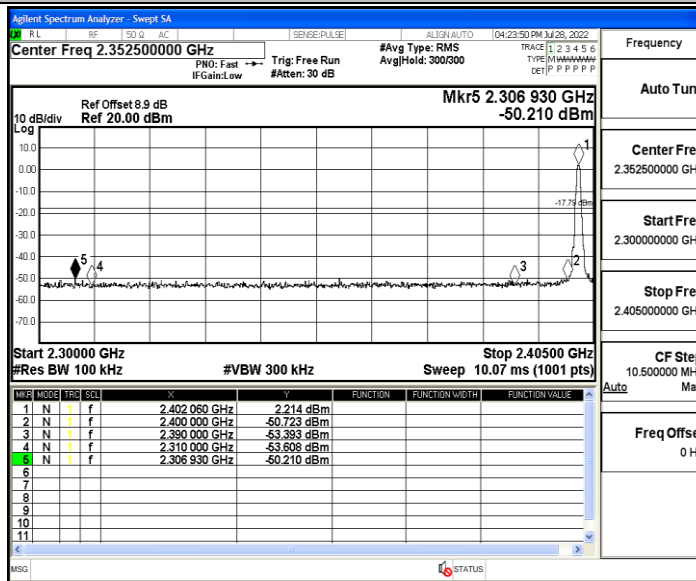
## Appendix G: Band edge measurements

### Test Result

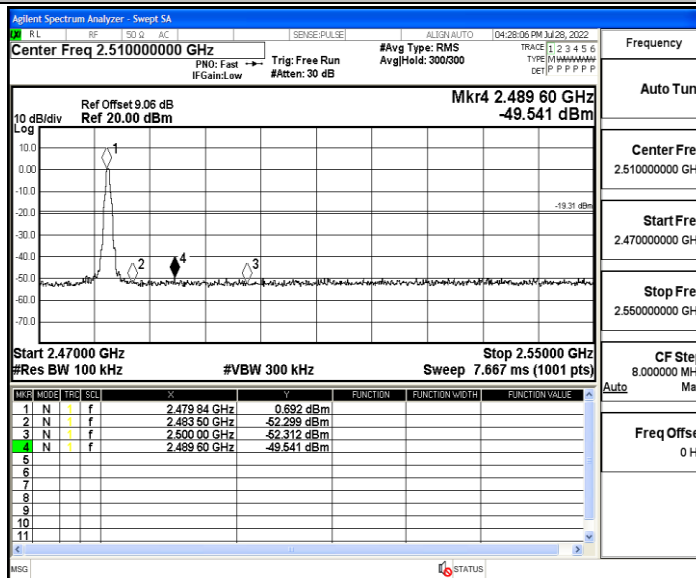
| TestMode | Antenna | ChName | Channel  | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|----------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | Low    | 2402     | 2.21              | -50.21          | $\leq -17.79$  | PASS    |
|          |         | High   | 2480     | 0.69              | -49.54          | $\leq -19.31$  | PASS    |
|          |         | Low    | Hop_2402 | 1.88              | -49.36          | $\leq -18.12$  | PASS    |
|          |         | High   | Hop_2480 | 0.49              | -49.43          | $\leq -19.51$  | PASS    |
| 2DH5     | Ant1    | Low    | 2402     | 2.25              | -50.03          | $\leq -17.75$  | PASS    |
|          |         | High   | 2480     | -0.02             | -48.94          | $\leq -20.02$  | PASS    |
|          |         | Low    | Hop_2402 | -1.16             | -50.94          | $\leq -21.16$  | PASS    |
|          |         | High   | Hop_2480 | -1.99             | -49.34          | $\leq -21.99$  | PASS    |
| 3DH5     | Ant1    | Low    | 2402     | 2.36              | -49.39          | $\leq -17.64$  | PASS    |
|          |         | High   | 2480     | -0.84             | -49.62          | $\leq -20.84$  | PASS    |
|          |         | Low    | Hop_2402 | 1.94              | -50.49          | $\leq -18.06$  | PASS    |
|          |         | High   | Hop_2480 | 0.73              | -49.44          | $\leq -19.27$  | PASS    |

## Test Graphs

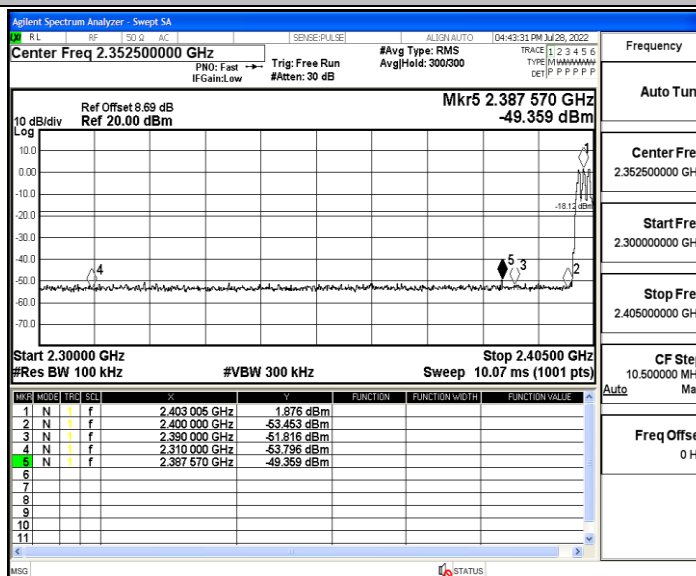
DH5\_Ant1\_Low\_2402



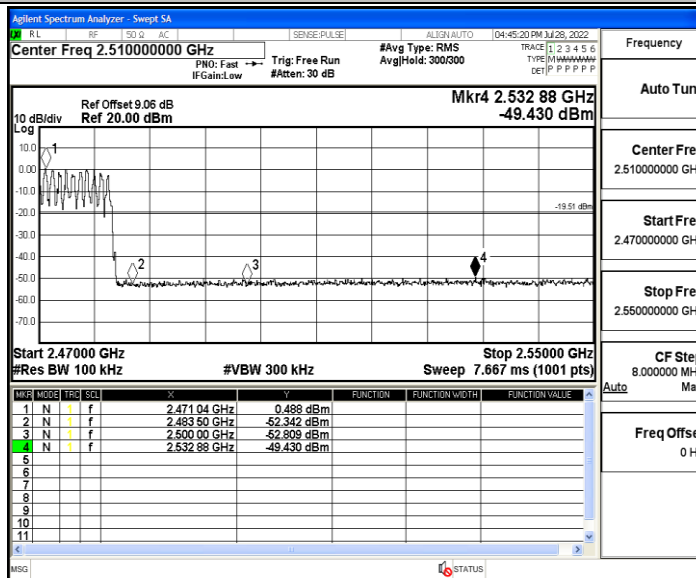
DH5\_Ant1\_High\_2480



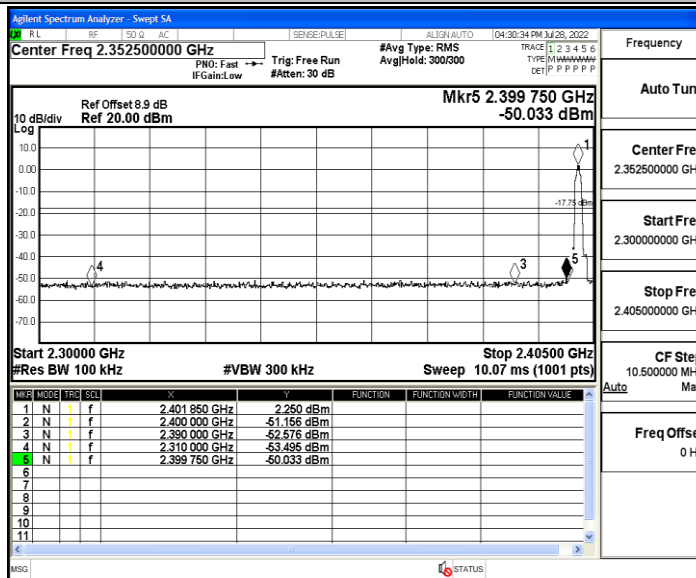
DH5\_Ant1\_Low\_Hop\_2402



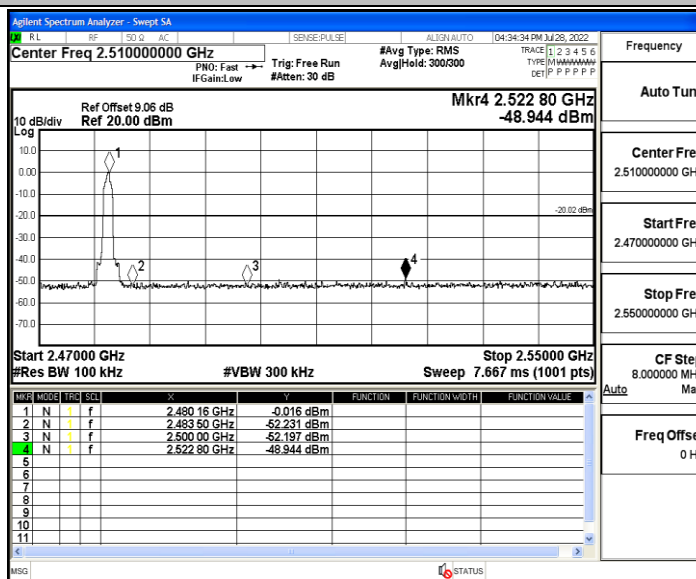
## DH5\_Ant1\_High\_Hop\_2480



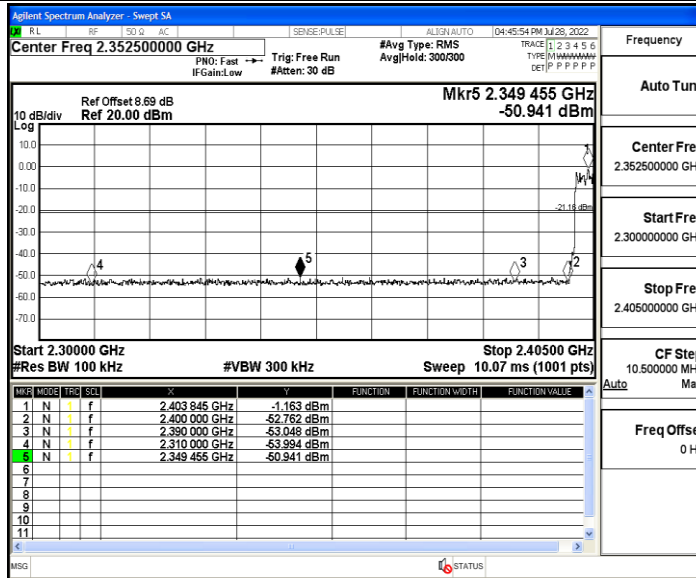
## 2DH5\_Ant1\_Low\_2402



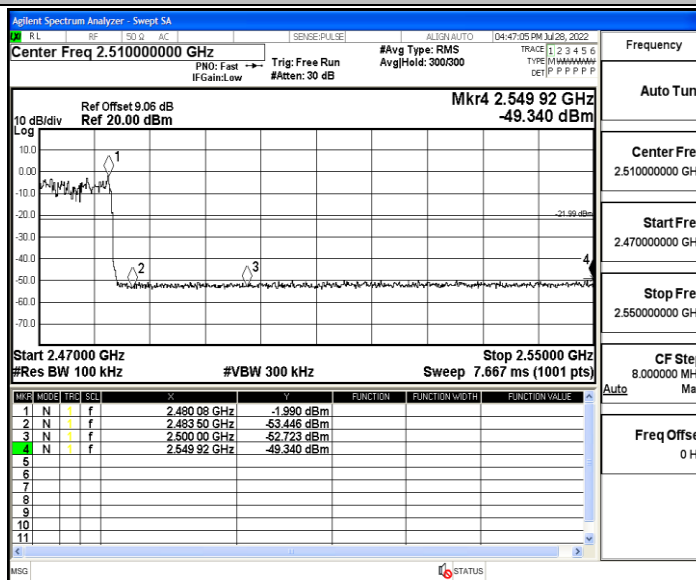
## 2DH5\_Ant1\_High\_2480



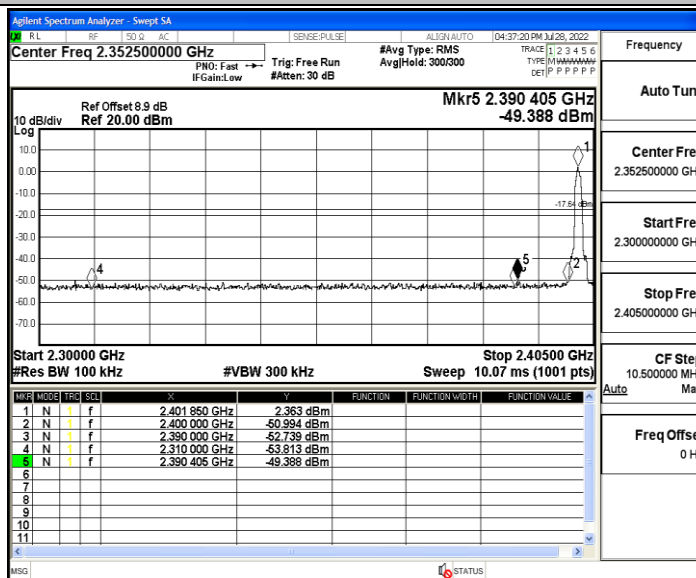
## 2DH5\_Ant1\_Low\_Hop\_2402



2DH5\_Ant1\_High\_Hop\_2480

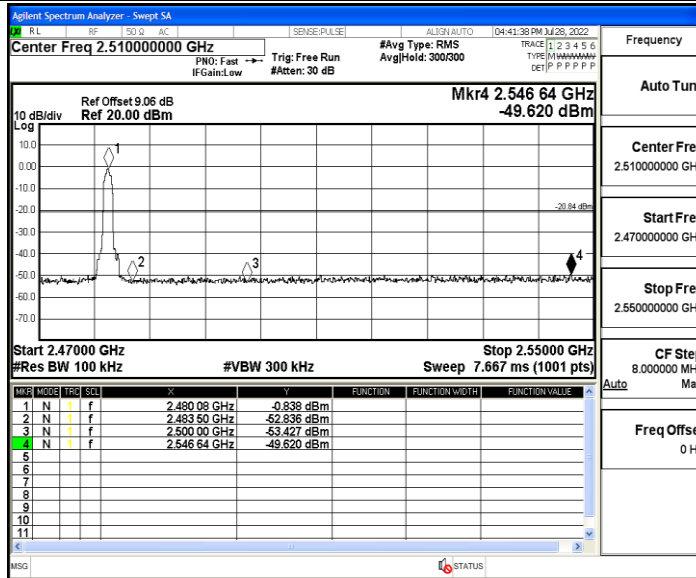


3DH5\_Ant1\_Low\_2402

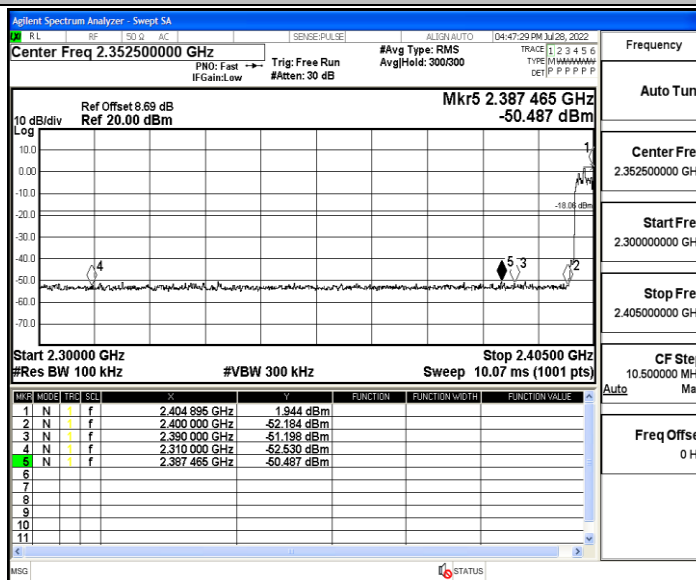


3DH5\_Ant1\_High\_2480

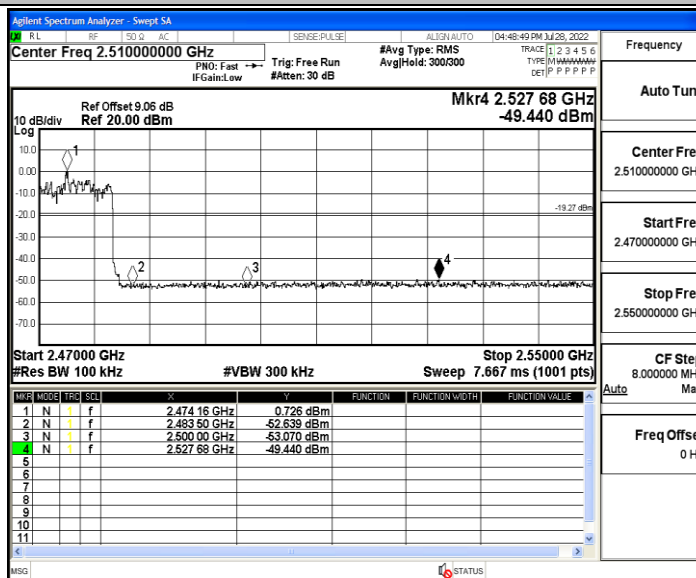




3DH5\_Ant1\_Low\_Hop\_2402



3DH5\_Ant1\_High\_Hop\_2480



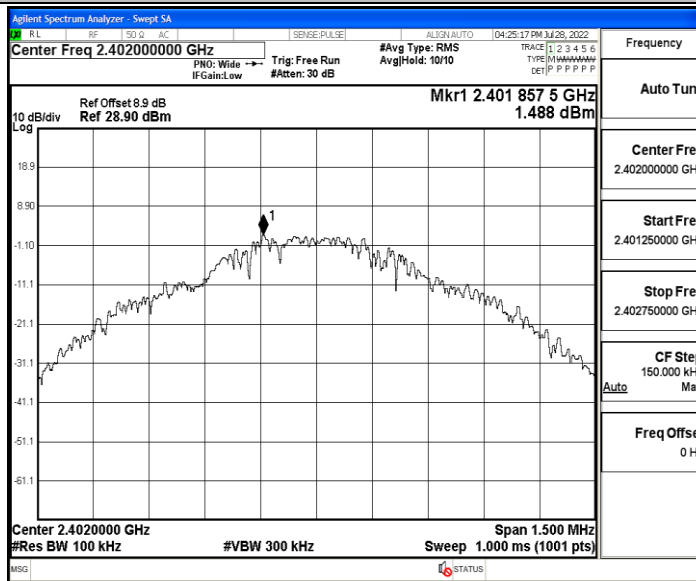
## Appendix H: Conducted Spurious Emission

### Test Result

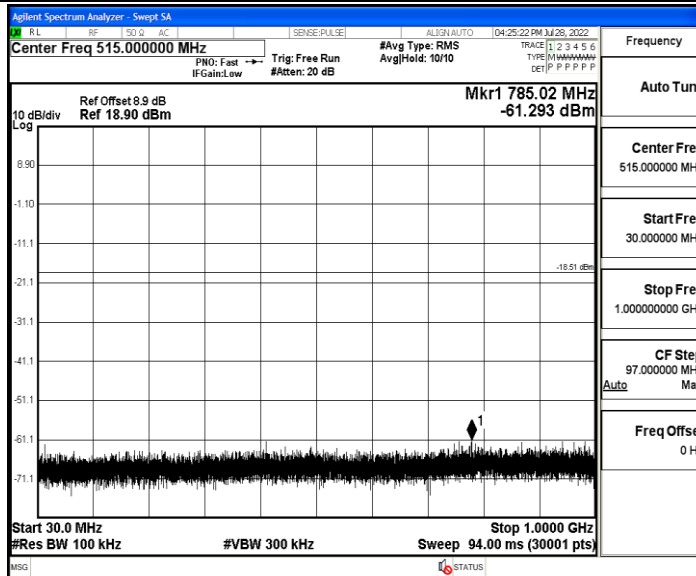
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | 2402    | Reference          | 1.49              | 1.49            | ---            | PASS    |
|          |         |         | 30~1000            | 1.49              | -61.29          | ≤-18.51        | PASS    |
|          |         |         | 1000~26500         | 1.49              | -46.47          | ≤-18.51        | PASS    |
|          |         | 2441    | Reference          | 0.68              | 0.68            | ---            | PASS    |
|          |         |         | 30~1000            | 0.68              | -61.28          | ≤-19.32        | PASS    |
|          |         |         | 1000~26500         | 0.68              | -51.22          | ≤-19.32        | PASS    |
|          |         | 2480    | Reference          | 0.26              | 0.26            | ---            | PASS    |
|          |         |         | 30~1000            | 0.26              | -61.09          | ≤-19.74        | PASS    |
|          |         |         | 1000~26500         | 0.26              | -50.97          | ≤-19.74        | PASS    |
| 2DH5     | Ant1    | 2402    | Reference          | -0.98             | -0.98           | ---            | PASS    |
|          |         |         | 30~1000            | -0.98             | -61.37          | ≤-20.98        | PASS    |
|          |         |         | 1000~26500         | -0.98             | -51.74          | ≤-20.98        | PASS    |
|          |         | 2441    | Reference          | -2.52             | -2.52           | ---            | PASS    |
|          |         |         | 30~1000            | -2.52             | -61.83          | ≤-22.52        | PASS    |
|          |         |         | 1000~26500         | -2.52             | -48.59          | ≤-22.52        | PASS    |
|          |         | 2480    | Reference          | -3.29             | -3.29           | ---            | PASS    |
|          |         |         | 30~1000            | -3.29             | -61.53          | ≤-23.29        | PASS    |
|          |         |         | 1000~26500         | -3.29             | -50.69          | ≤-23.29        | PASS    |
| 3DH5     | Ant1    | 2402    | Reference          | 0.93              | 0.93            | ---            | PASS    |
|          |         |         | 30~1000            | 0.93              | -61.66          | ≤-19.07        | PASS    |
|          |         |         | 1000~26500         | 0.93              | -48.55          | ≤-19.07        | PASS    |
|          |         | 2441    | Reference          | 0.09              | 0.09            | ---            | PASS    |
|          |         |         | 30~1000            | 0.09              | -61.51          | ≤-19.91        | PASS    |
|          |         |         | 1000~26500         | 0.09              | -51.1           | ≤-19.91        | PASS    |
|          |         | 2480    | Reference          | -1.85             | -1.85           | ---            | PASS    |
|          |         |         | 30~1000            | -1.85             | -60.9           | ≤-21.85        | PASS    |
|          |         |         | 1000~26500         | -1.85             | -51.35          | ≤-21.85        | PASS    |

## Test Graphs

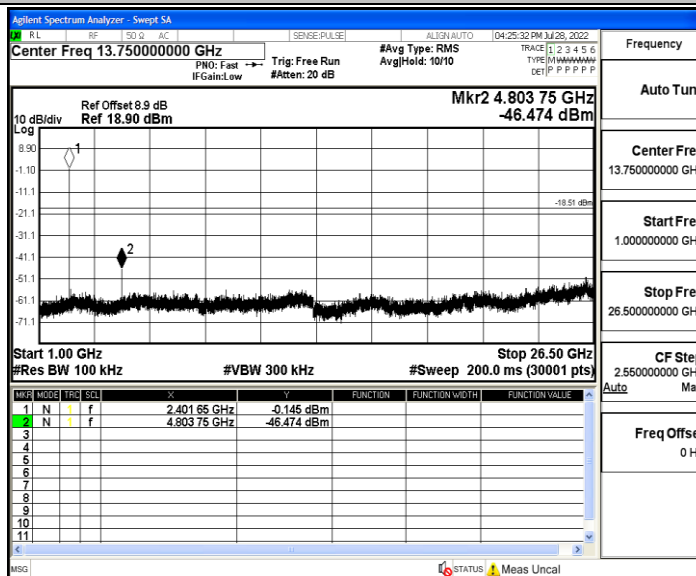
DH5\_Ant1\_2402\_0~Reference



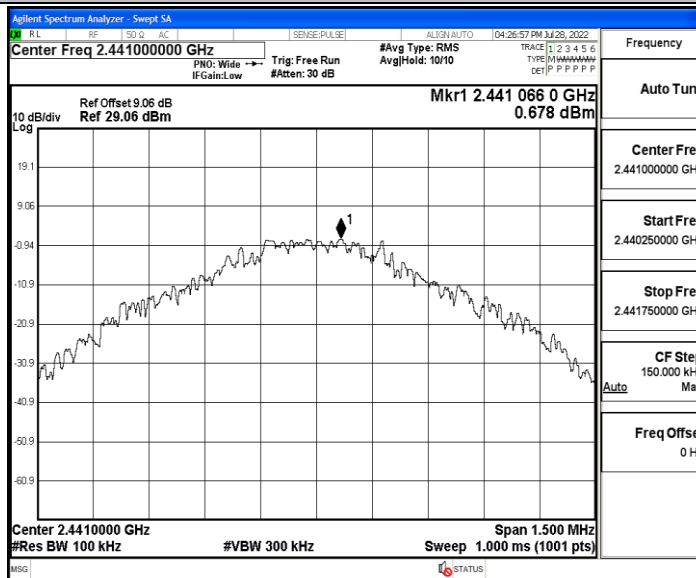
DH5\_Ant1\_2402\_30~1000



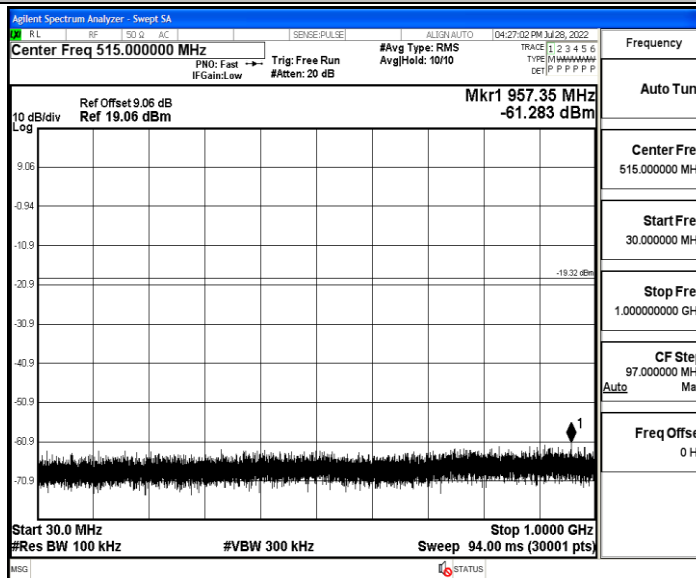
DH5\_Ant1\_2402\_1000~26500



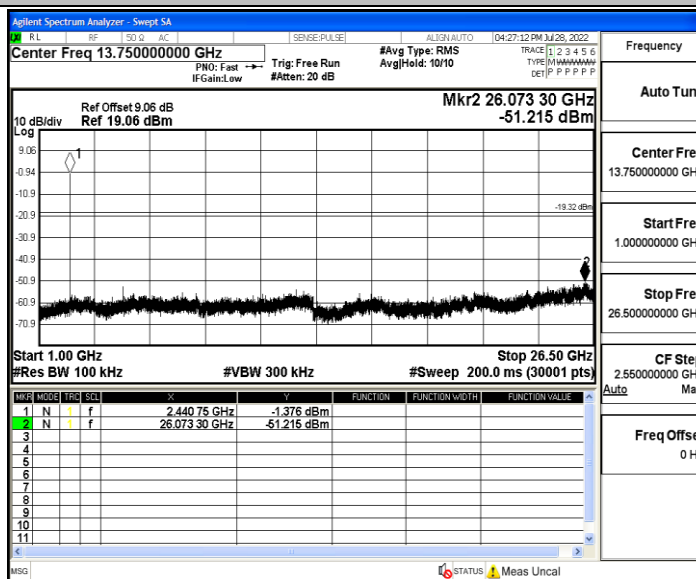
## DH5\_Ant1\_2441\_0~Reference



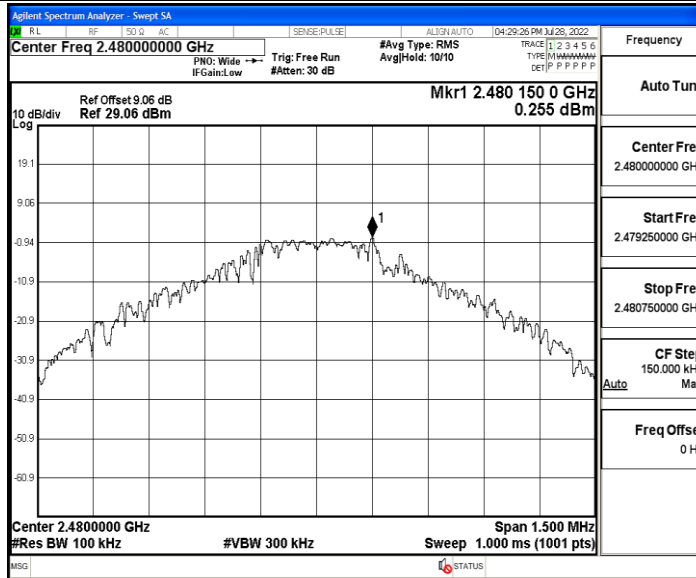
## DH5\_Ant1\_2441\_30~1000



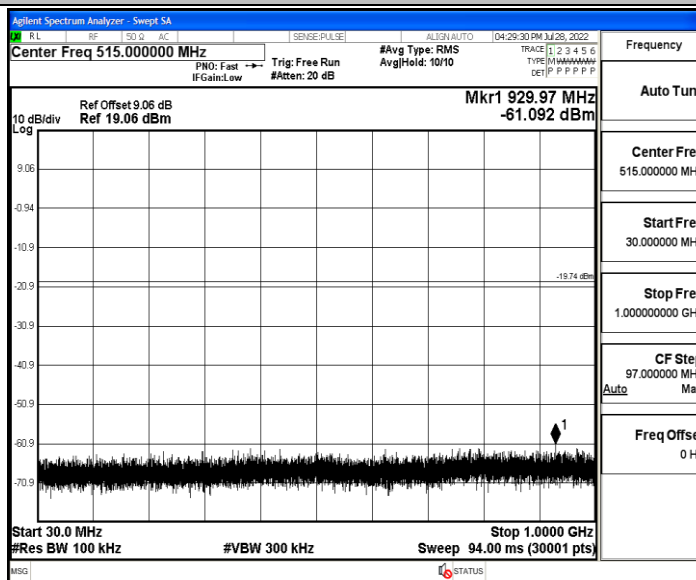
## DH5\_Ant1\_2441\_1000~26500



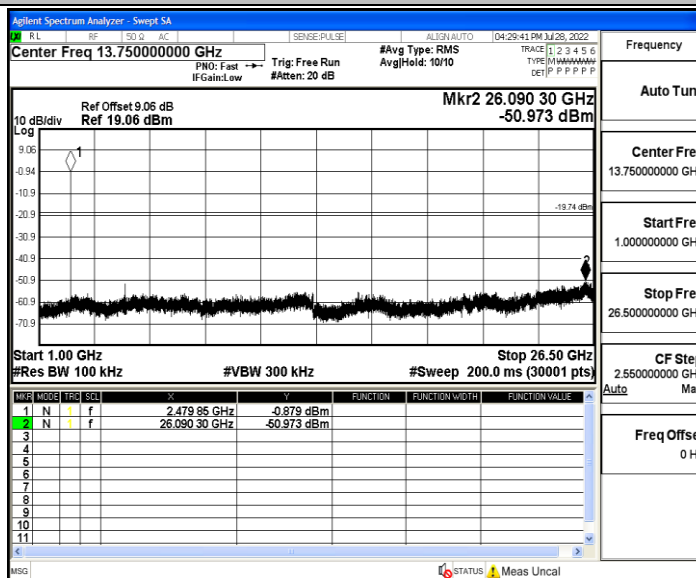
## DH5\_Ant1\_2480\_0~Reference



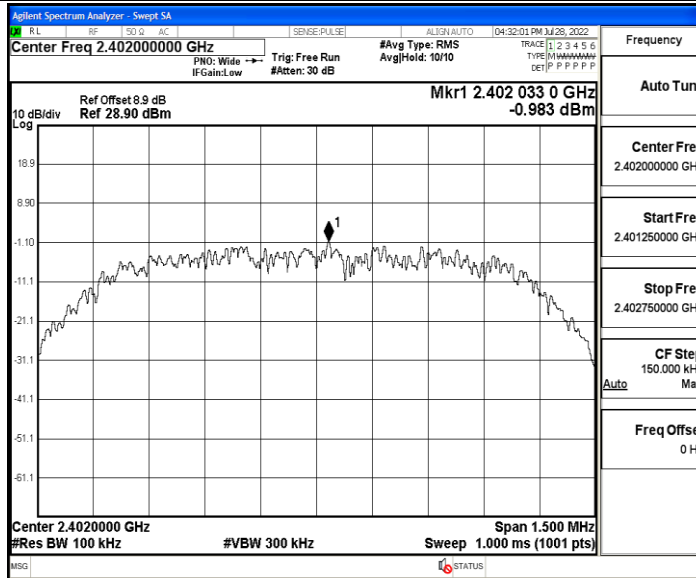
DH5\_Ant1\_2480\_30~1000



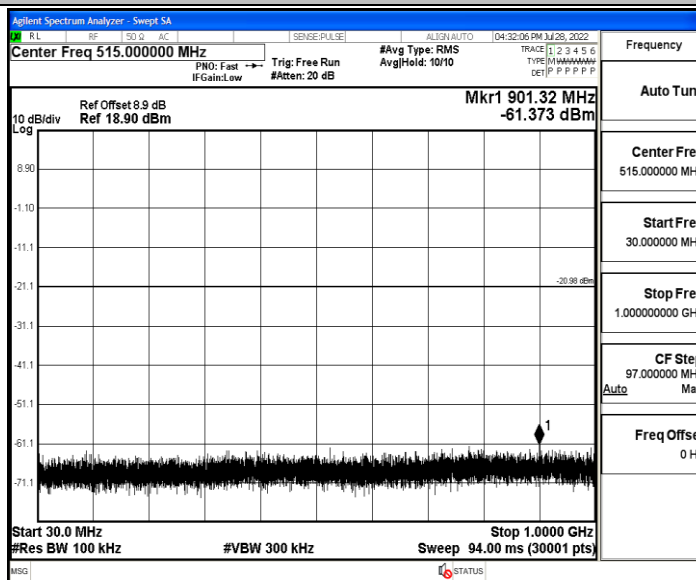
DH5\_Ant1\_2480\_1000~26500



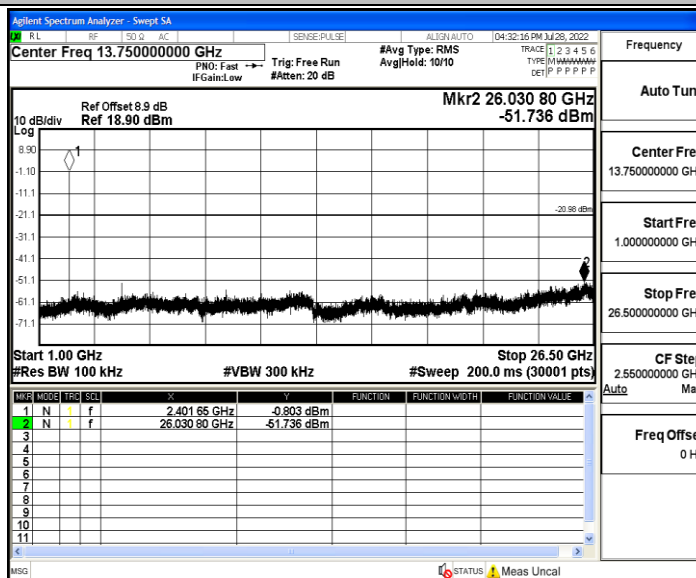
2DH5\_Ant1\_2402\_0~Reference



2DH5\_Ant1\_2402\_30~1000



2DH5\_Ant1\_2402\_1000~26500



2DH5\_Ant1\_2441\_0~Reference