

## Appendix A

### RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth transmitter

Trade Mark: N/A

Test Model: YET-TX9

FCC ID: 2A5P3-YET-TX9

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 22.8° C   |
| Relative Humidity: | 56%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Nancy Li  |
| Supervised by:     | Hugo Chen |

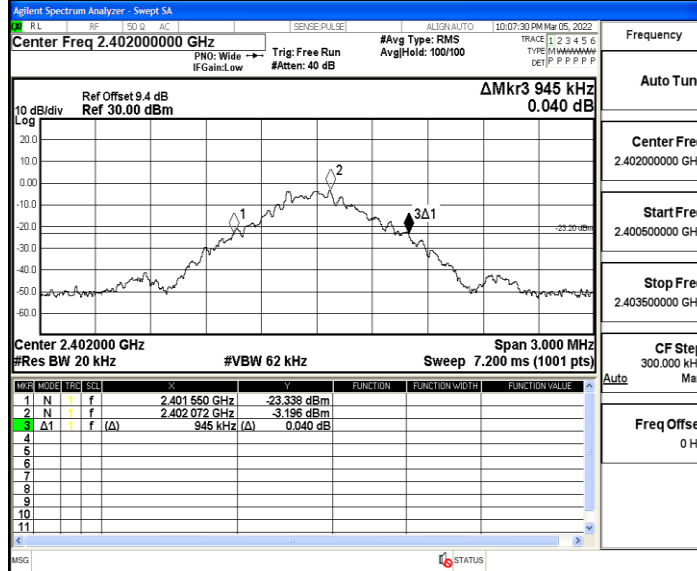
## Appendix A: 20dB Emission Bandwidth

### Test Result

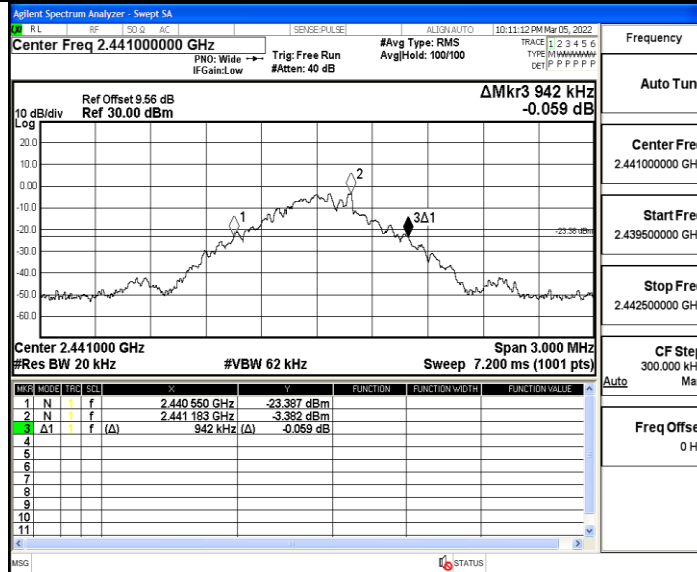
| TestMode | Antenna | Channel | 20db EBW[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|---------------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402    | 0.945         | 2401.550 | 2402.495 | ---        | PASS    |
|          |         | 2441    | 0.942         | 2440.550 | 2441.492 | ---        | PASS    |
|          |         | 2480    | 0.939         | 2479.553 | 2480.492 | ---        | PASS    |
| 2DH5     | Ant1    | 2402    | 1.311         | 2401.352 | 2402.663 | ---        | PASS    |
|          |         | 2441    | 1.317         | 2440.349 | 2441.666 | ---        | PASS    |
|          |         | 2480    | 1.311         | 2479.355 | 2480.666 | ---        | PASS    |
| 3DH5     | Ant1    | 2402    | 1.275         | 2401.364 | 2402.639 | ---        | PASS    |
|          |         | 2441    | 1.266         | 2440.364 | 2441.630 | ---        | PASS    |
|          |         | 2480    | 1.290         | 2479.361 | 2480.651 | ---        | PASS    |

Test Graphs

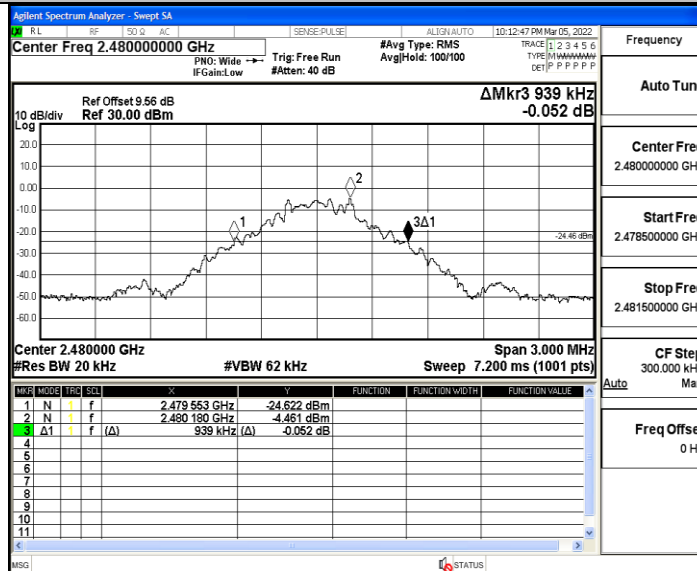
DH5\_Ant1\_2402



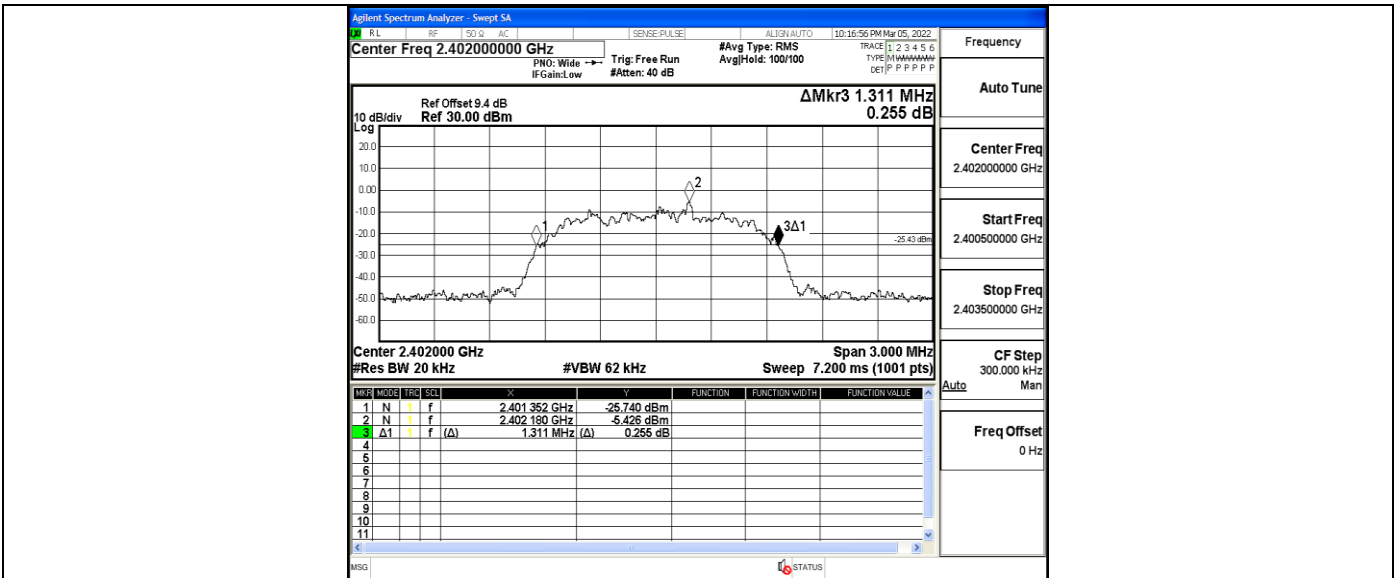
DH5\_Ant1\_2441



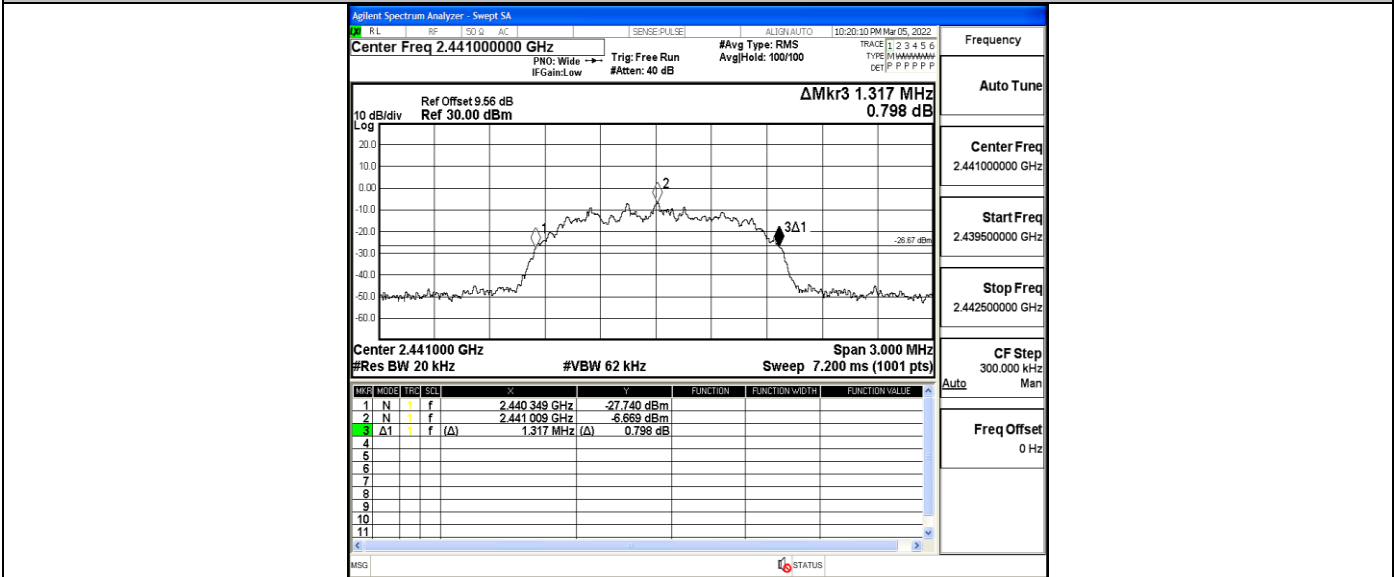
DH5\_Ant1\_2480



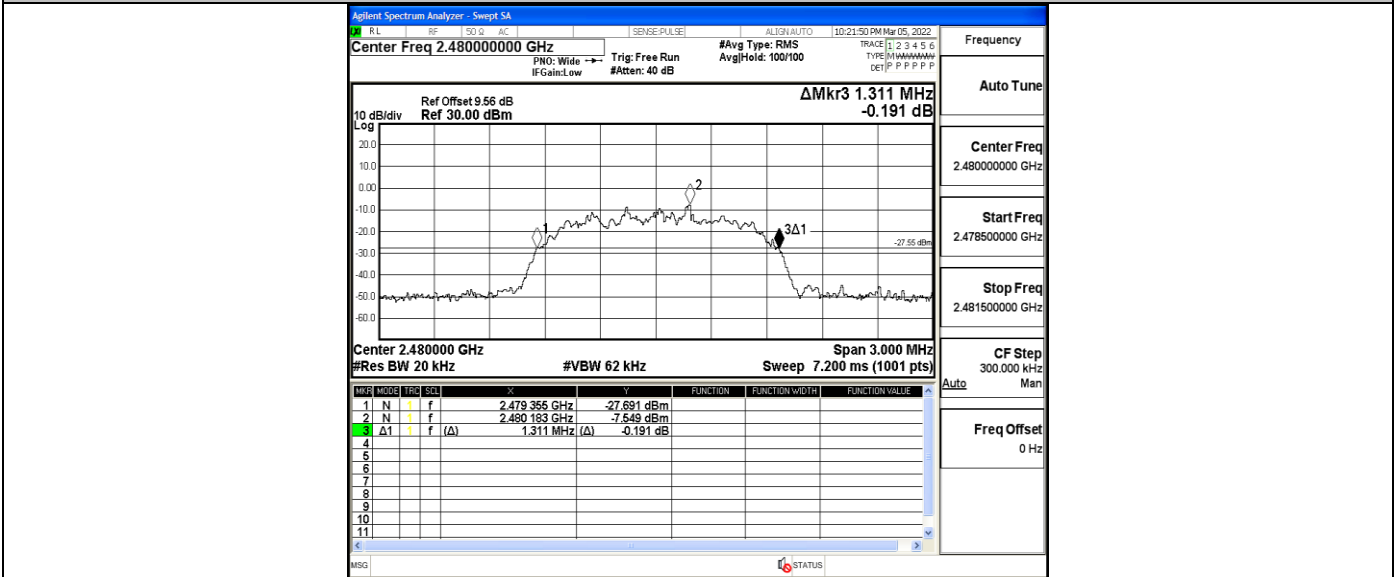
2DH5\_Ant1\_2402



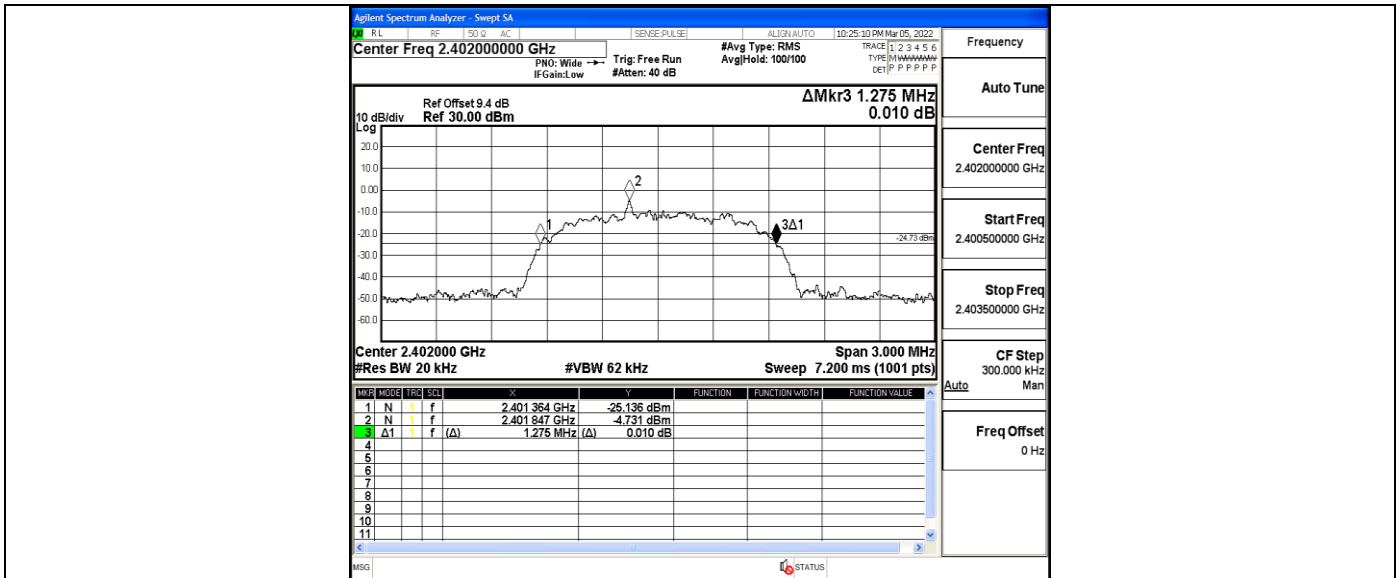
2DH5\_Ant1\_2441



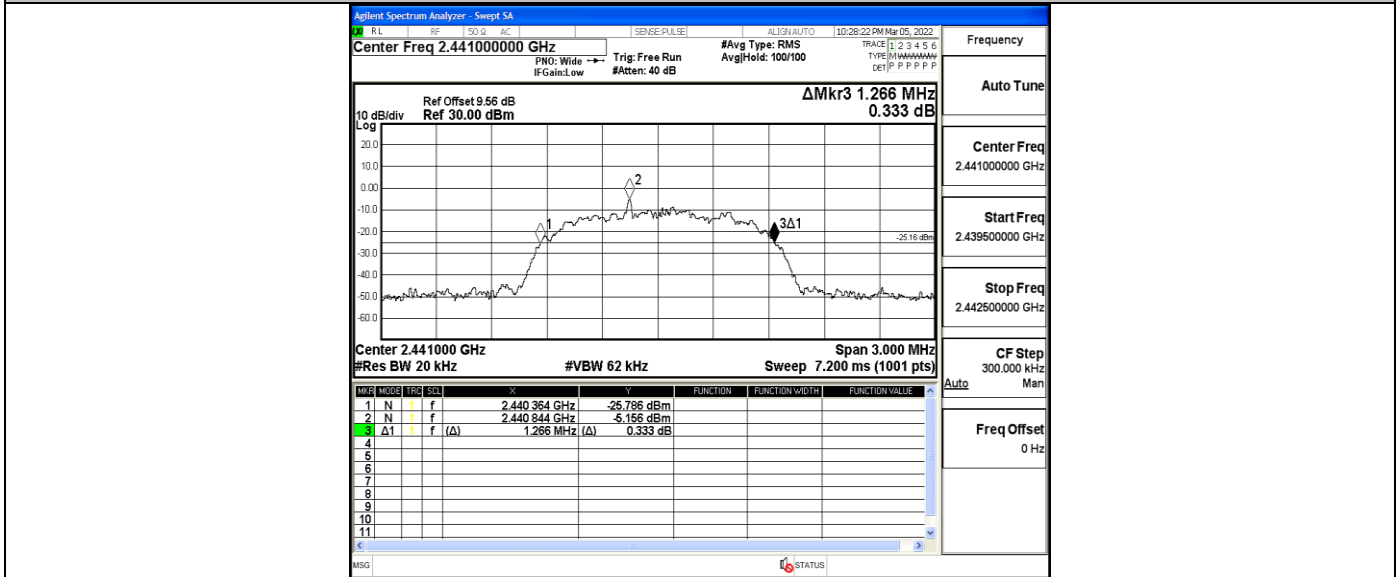
2DH5\_Ant1\_2480



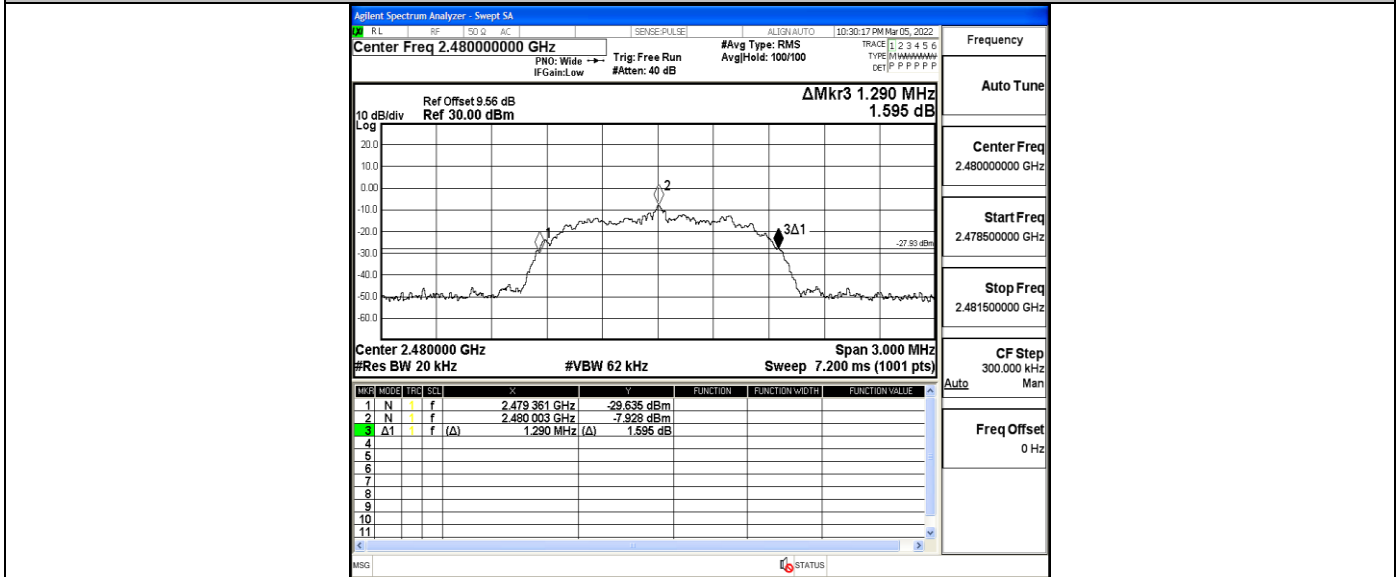
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



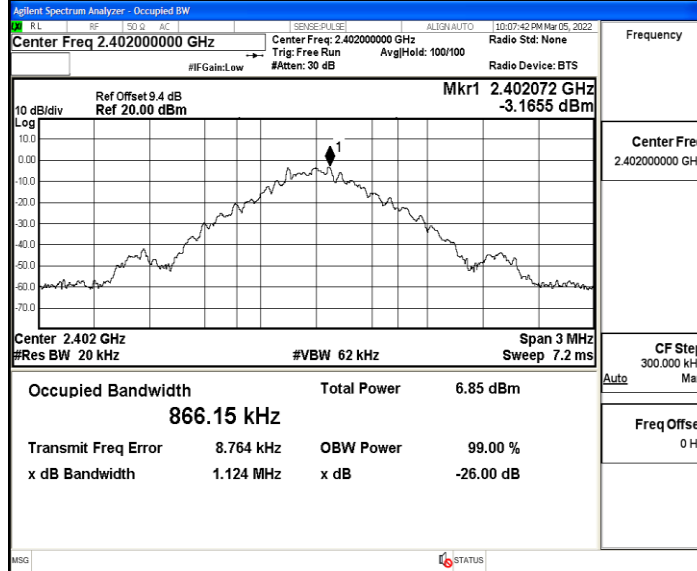
## Appendix B: Occupied Channel Bandwidth

### Test Result

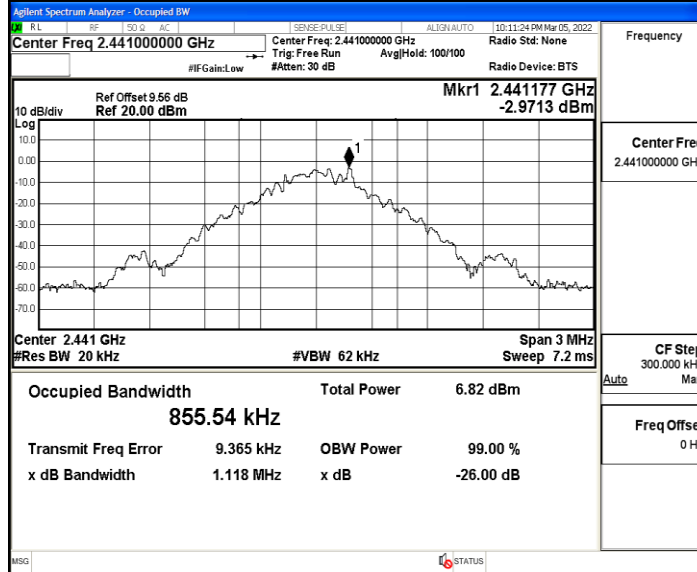
| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------|----------|----------|------------|---------|
| DH5      | Ant1    | 2402    | 0.86615   | 2401.576 | 2402.442 | ---        | PASS    |
|          |         | 2441    | 0.85554   | 2440.582 | 2441.437 | ---        | PASS    |
|          |         | 2480    | 0.86427   | 2479.576 | 2480.440 | ---        | PASS    |
| 2DH5     | Ant1    | 2402    | 1.1775    | 2401.425 | 2402.602 | ---        | PASS    |
|          |         | 2441    | 1.1788    | 2440.424 | 2441.602 | ---        | PASS    |
|          |         | 2480    | 1.1718    | 2479.423 | 2480.595 | ---        | PASS    |
| 3DH5     | Ant1    | 2402    | 1.1808    | 2401.417 | 2402.598 | ---        | PASS    |
|          |         | 2441    | 1.1741    | 2440.421 | 2441.595 | ---        | PASS    |
|          |         | 2480    | 1.1824    | 2479.416 | 2480.598 | ---        | PASS    |

Test Graphs

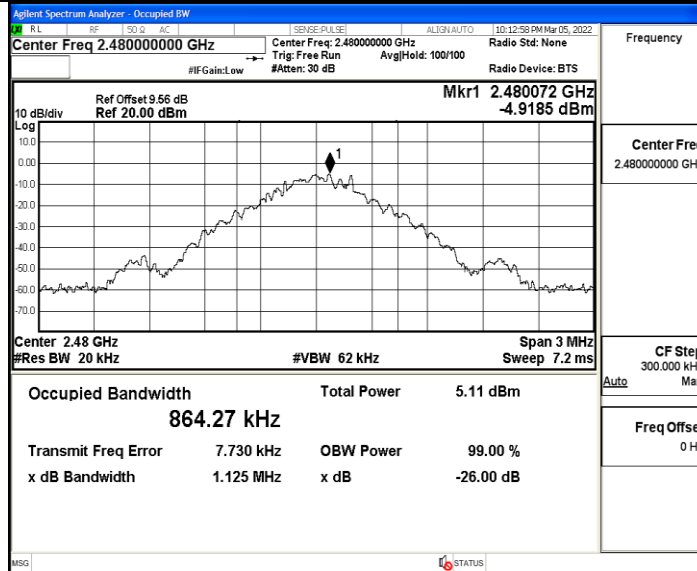
DH5\_Ant1\_2402



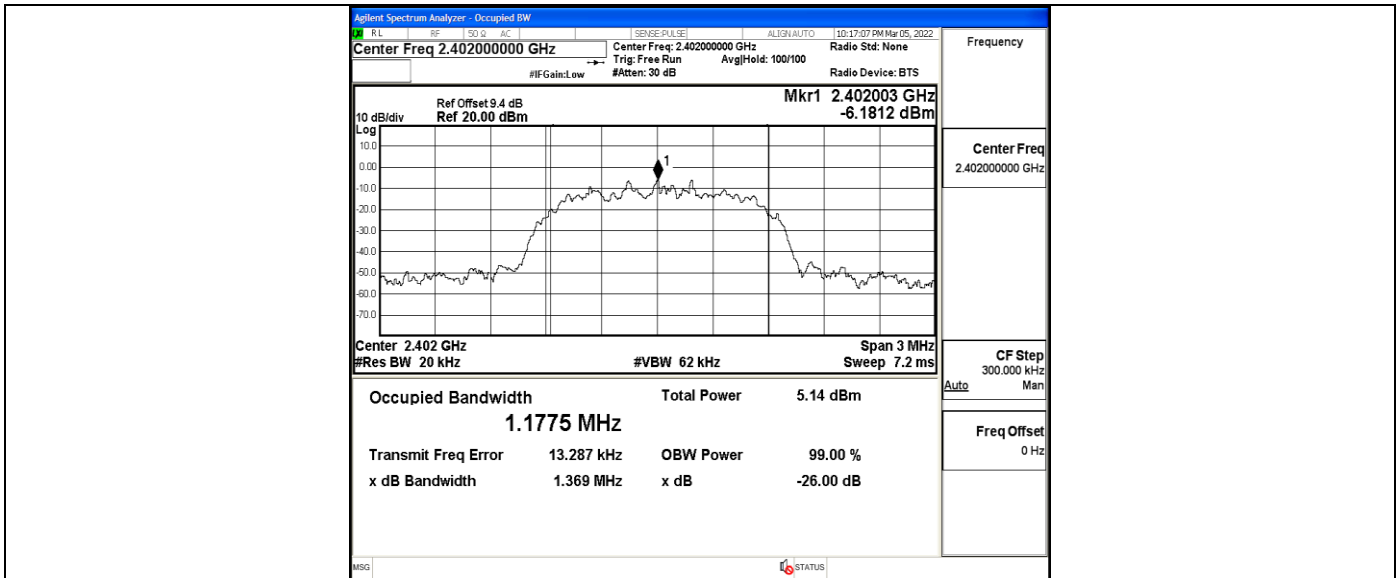
DH5\_Ant1\_2441



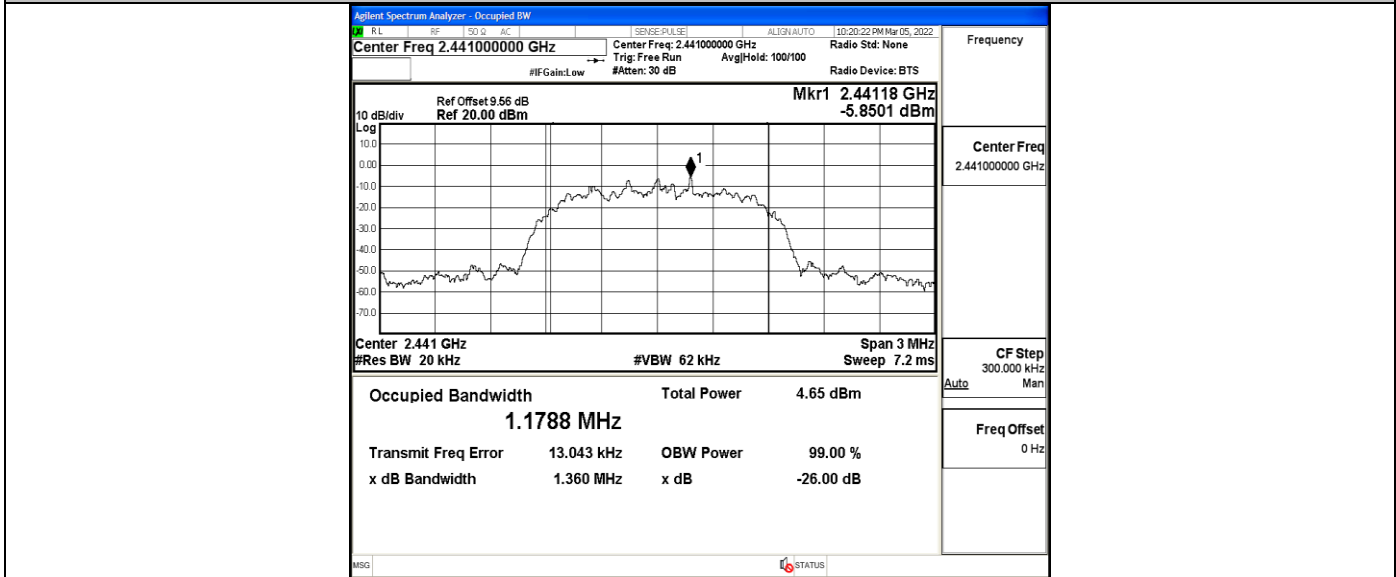
DH5\_Ant1\_2480



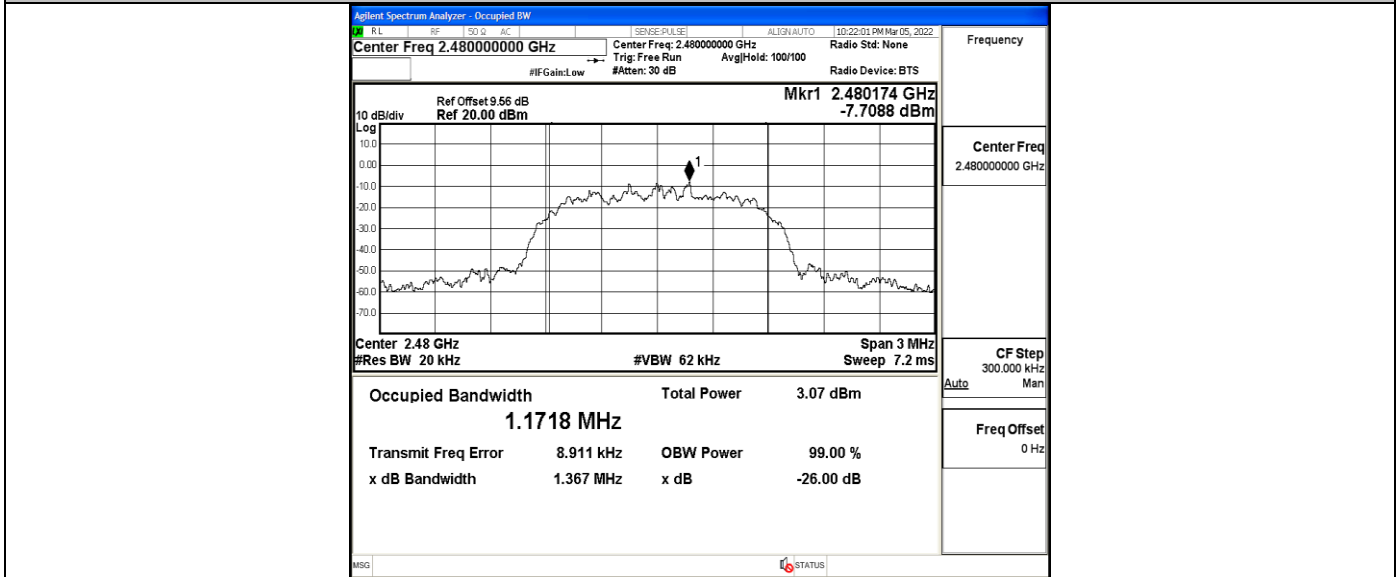
2DH5\_Ant1\_2402



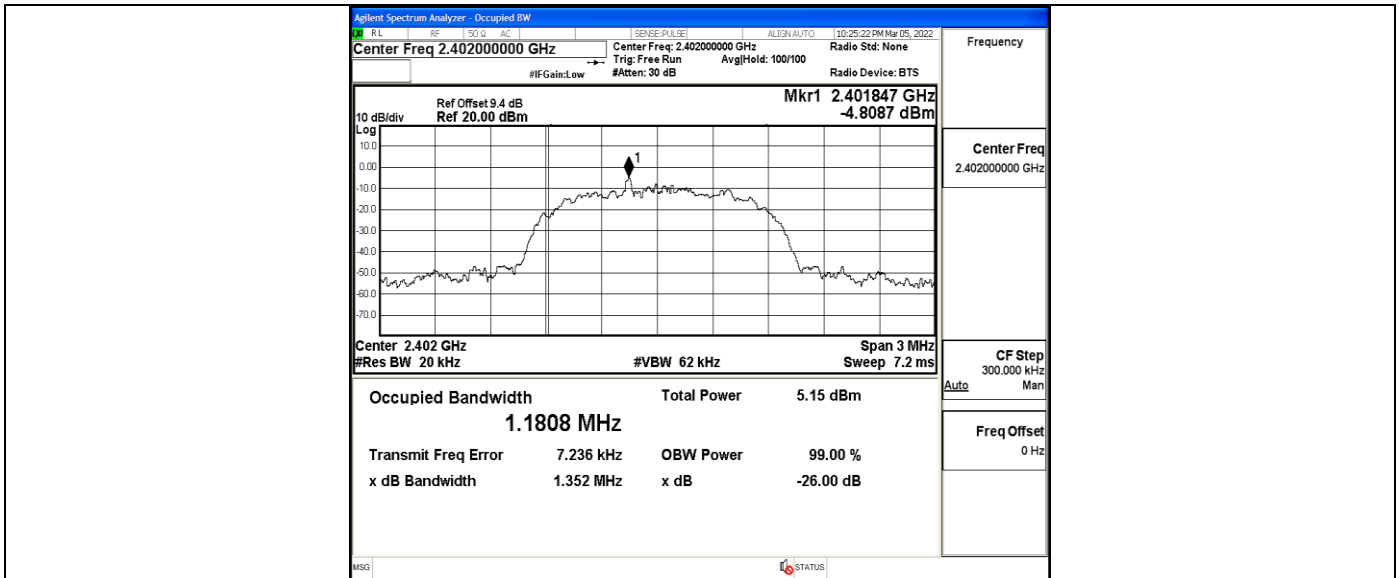
2DH5\_Ant1\_2441



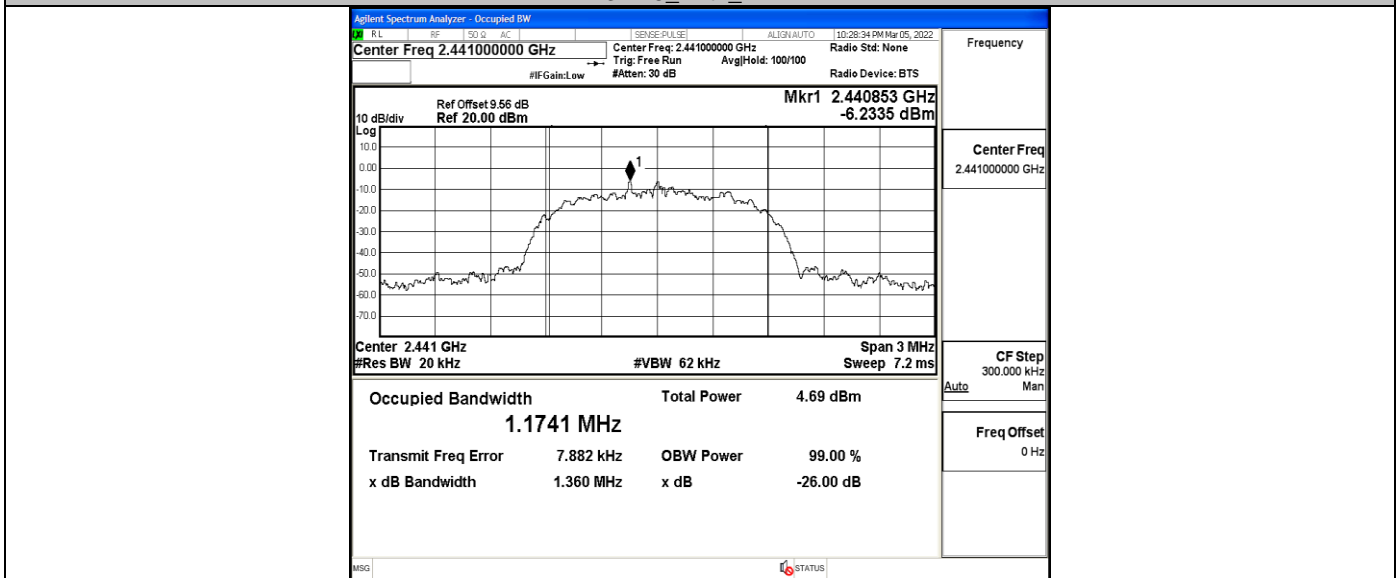
2DH5\_Ant1\_2480



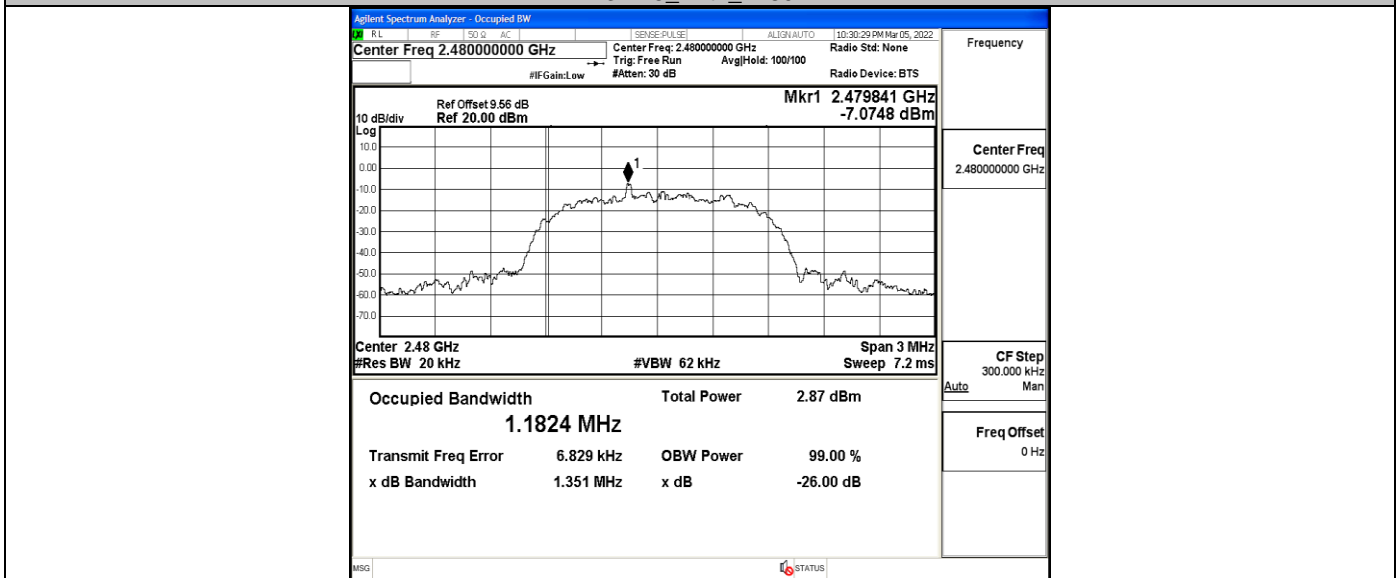
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480





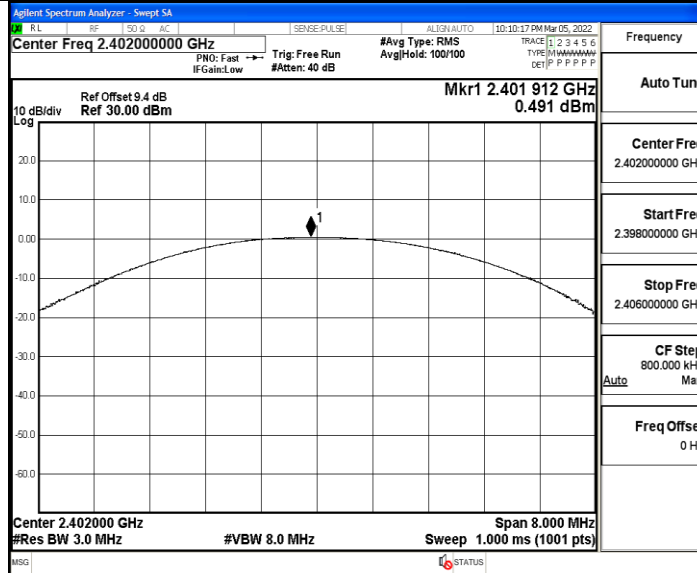
## Appendix C: Maximum conducted output power

### Test Result

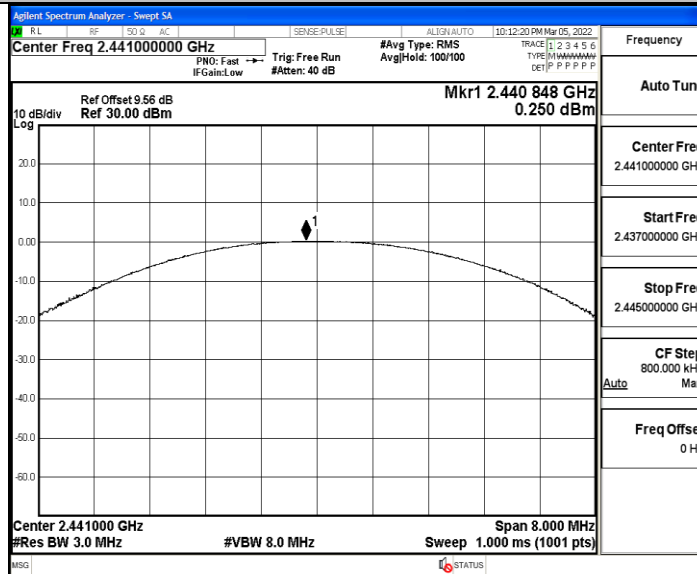
| TestMode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|---------|-------------|------------|---------|
| DH5      | Ant1    | 2402    | 0.49        | <=30.00    | PASS    |
|          |         | 2441    | 0.25        | <=30.00    | PASS    |
|          |         | 2480    | -1.14       | <=30.00    | PASS    |
| 2DH5     | Ant1    | 2402    | 0.17        | <=20.97    | PASS    |
|          |         | 2441    | -0.23       | <=20.97    | PASS    |
|          |         | 2480    | -1.76       | <=20.97    | PASS    |
| 3DH5     | Ant1    | 2402    | 0.73        | <=20.97    | PASS    |
|          |         | 2441    | 0.26        | <=20.97    | PASS    |
|          |         | 2480    | -1.33       | <=20.97    | PASS    |

### Test Graphs

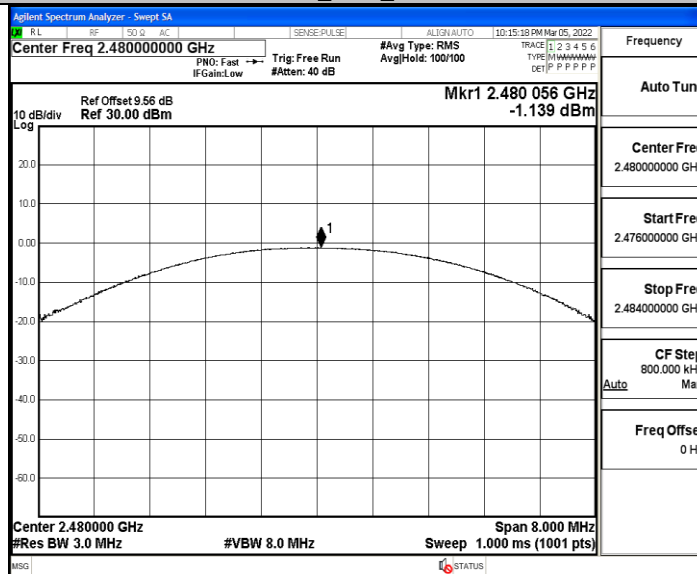
DH5\_Ant1\_2402

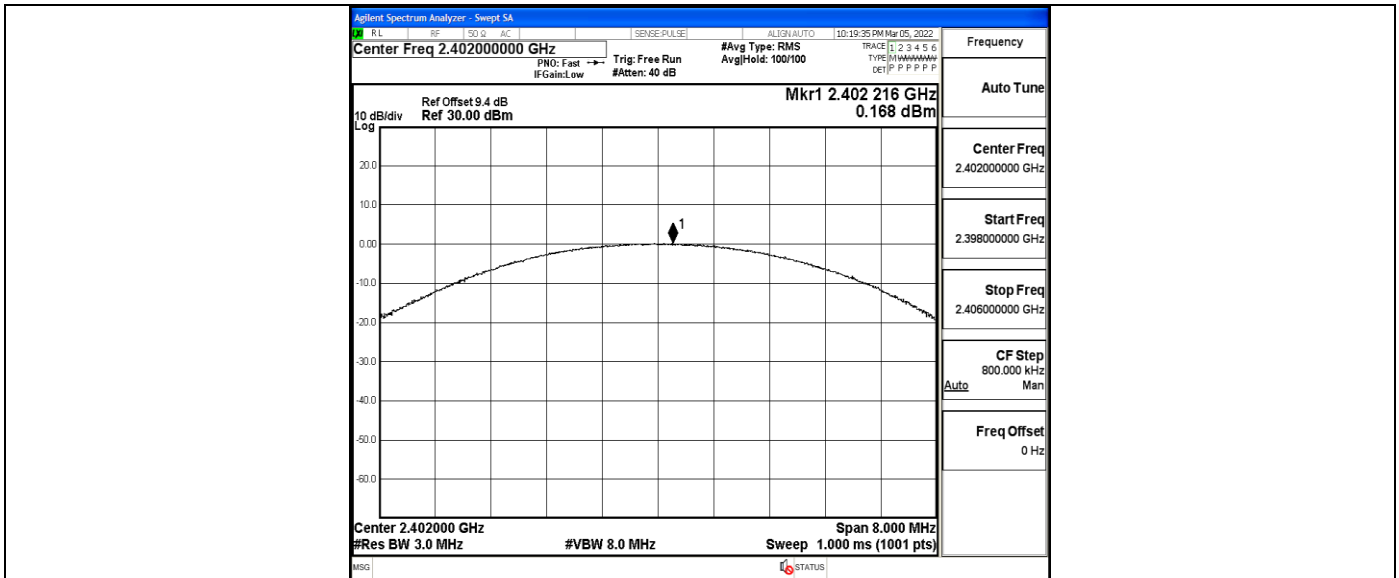


DH5\_Ant1\_2441

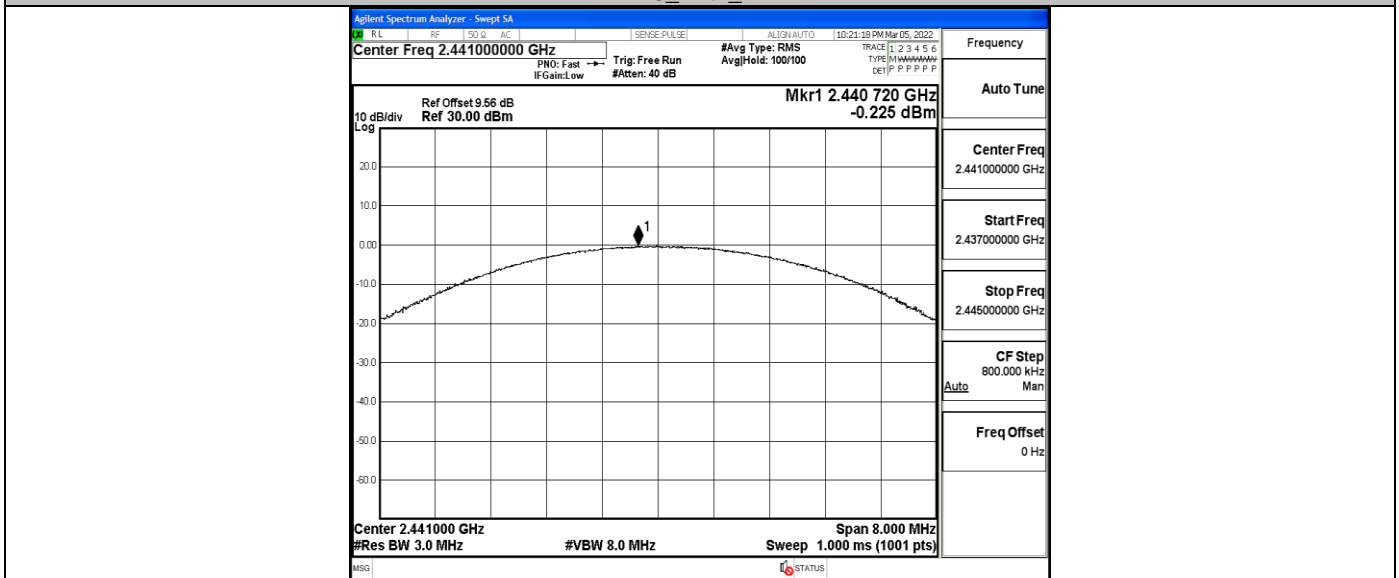


DH5\_Ant1\_2480

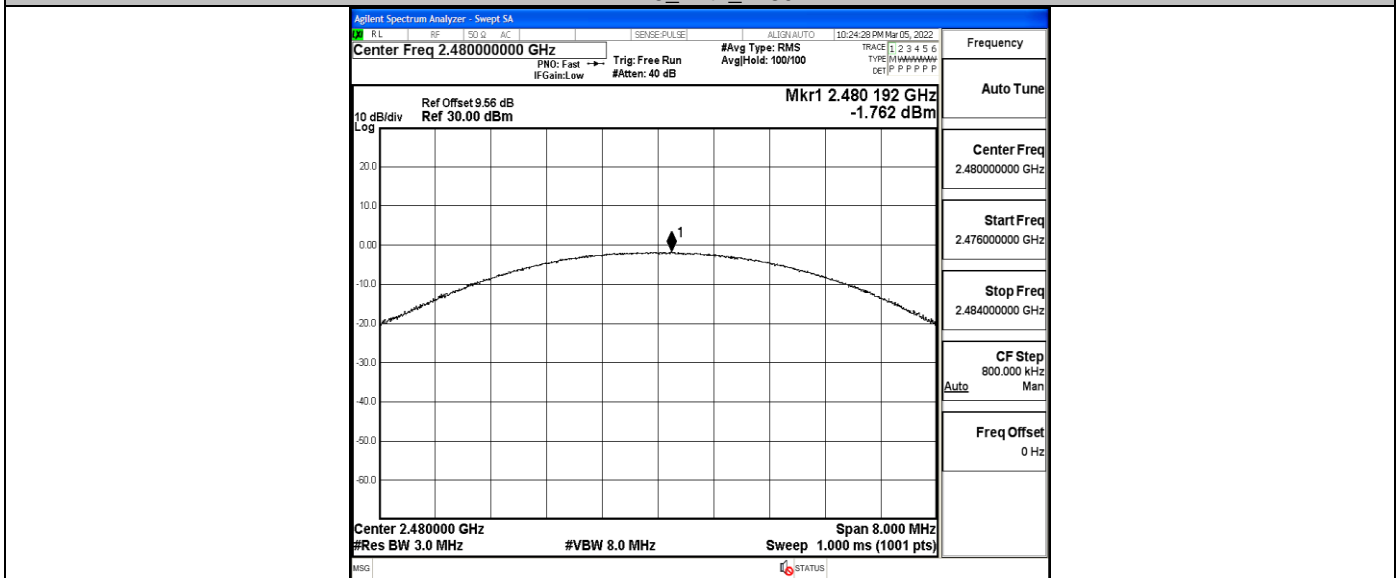




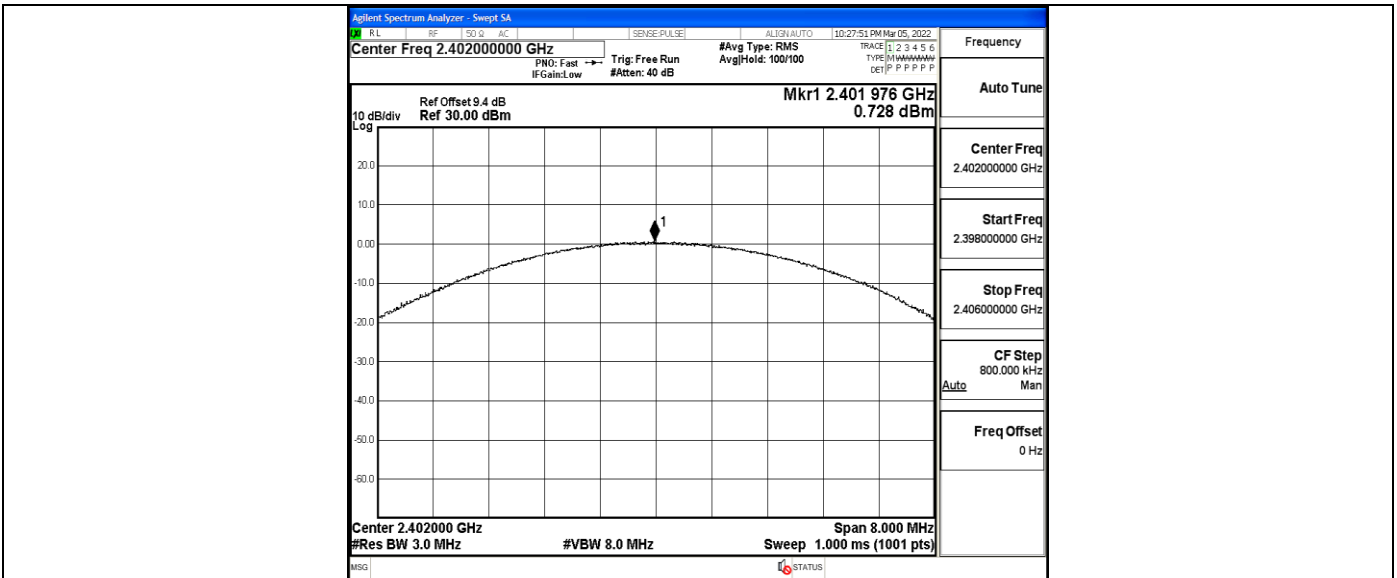
2DH5\_Ant1\_2441



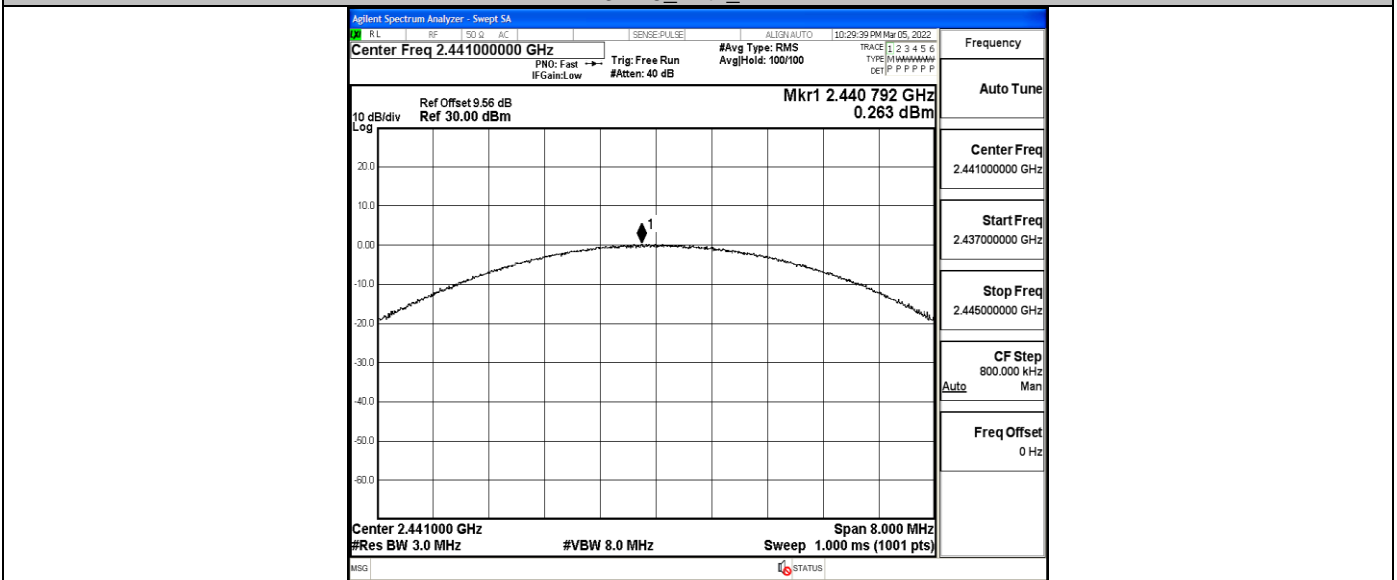
2DH5\_Ant1\_2480



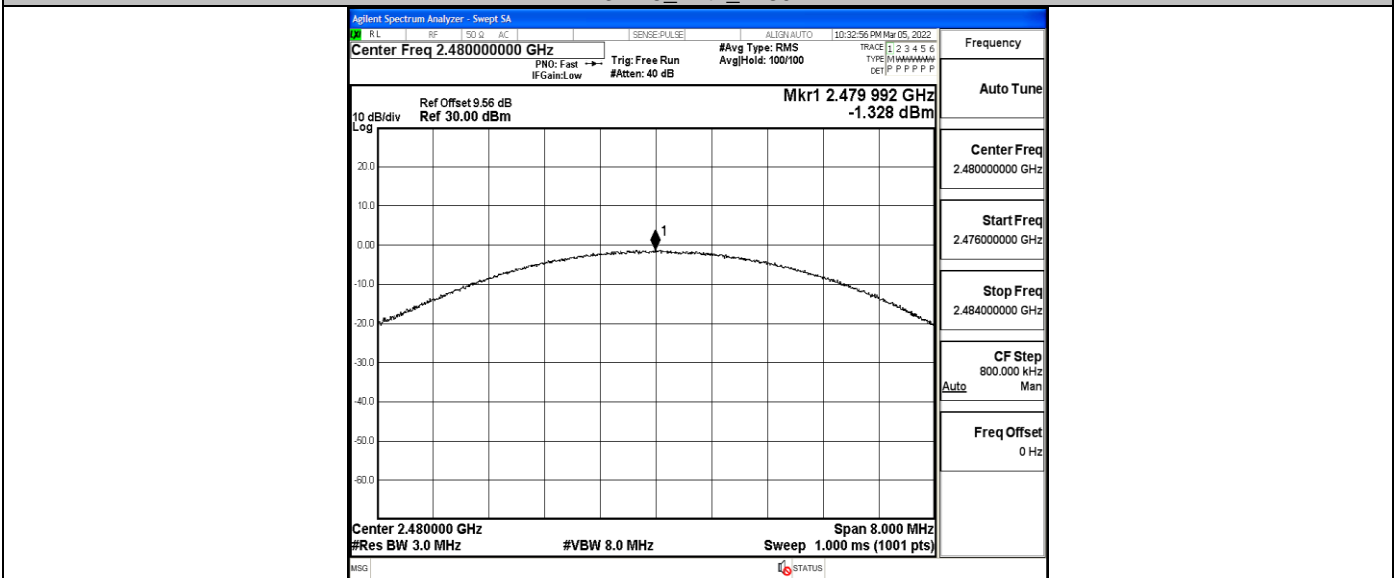
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

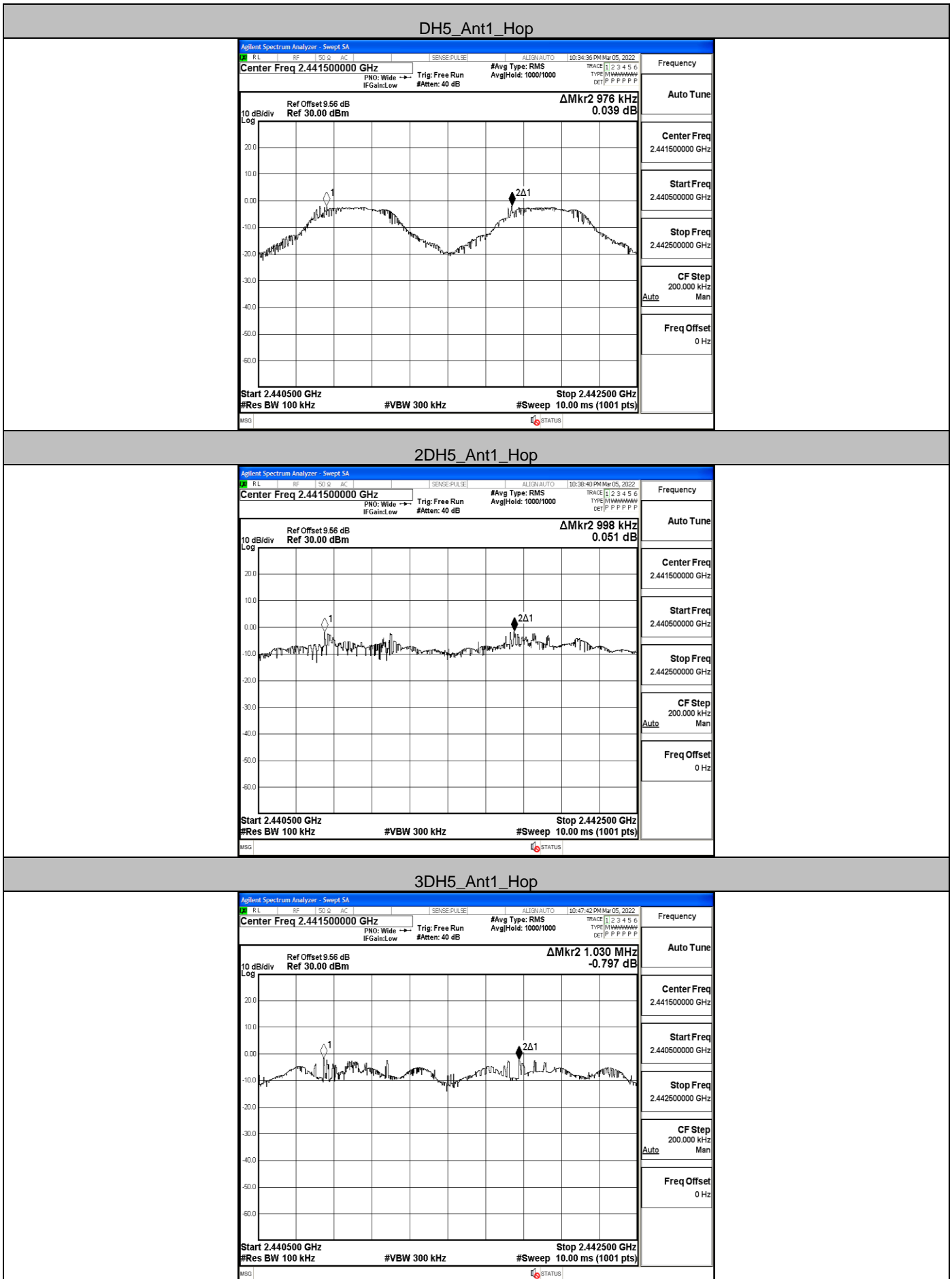


## Appendix D: Carrier frequency separation

### Test Result

| TestMode | Antenna | Channel | Result[MHz] | Limit[MHz]   | Verdict |
|----------|---------|---------|-------------|--------------|---------|
| DH5      | Ant1    | Hop     | 0.976       | $\geq 0.945$ | PASS    |
| 2DH5     | Ant1    | Hop     | 0.998       | $\geq 0.878$ | PASS    |
| 3DH5     | Ant1    | Hop     | 1.03        | $\geq 0.860$ | PASS    |

### Test Graphs

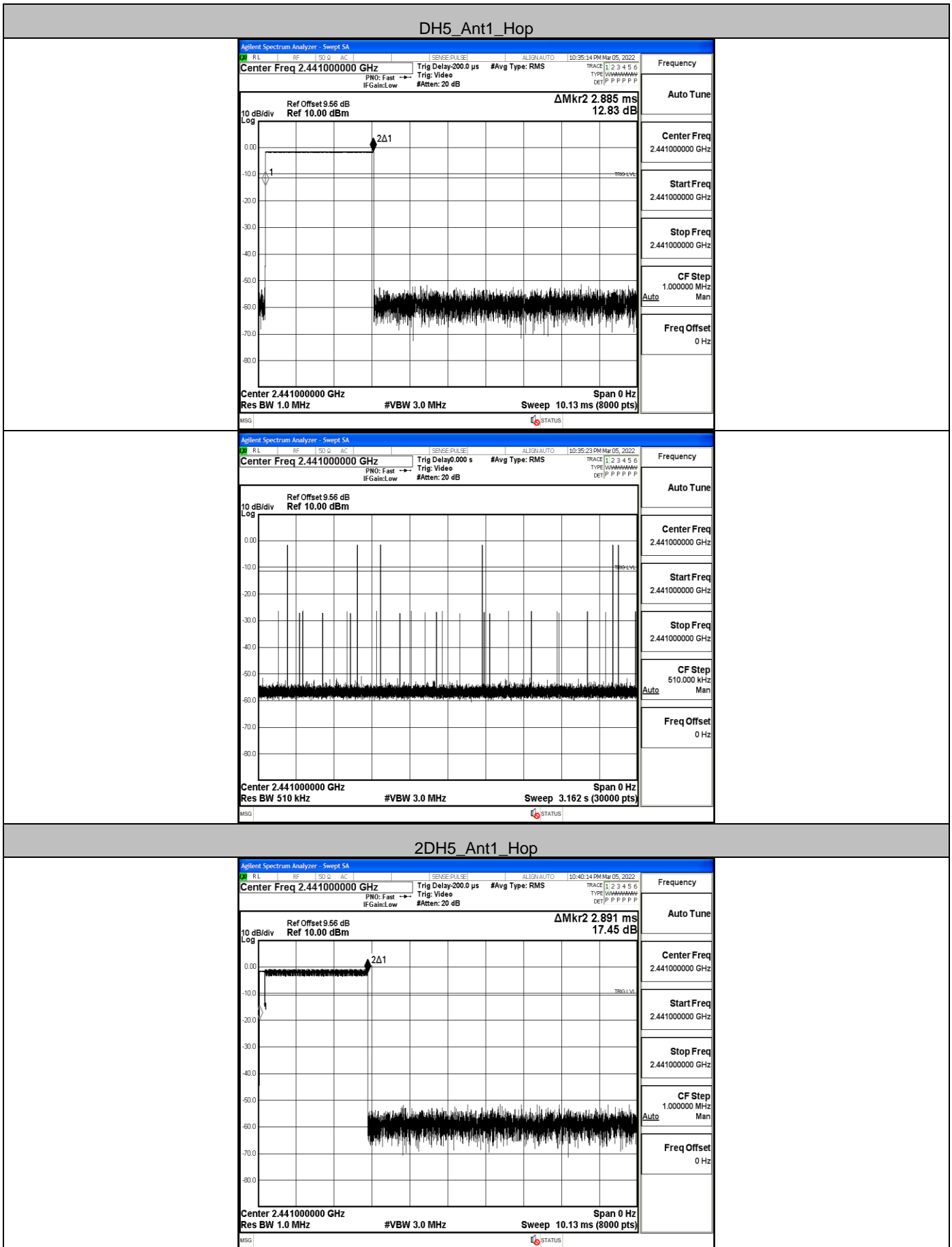


## Appendix E: Time of occupancy

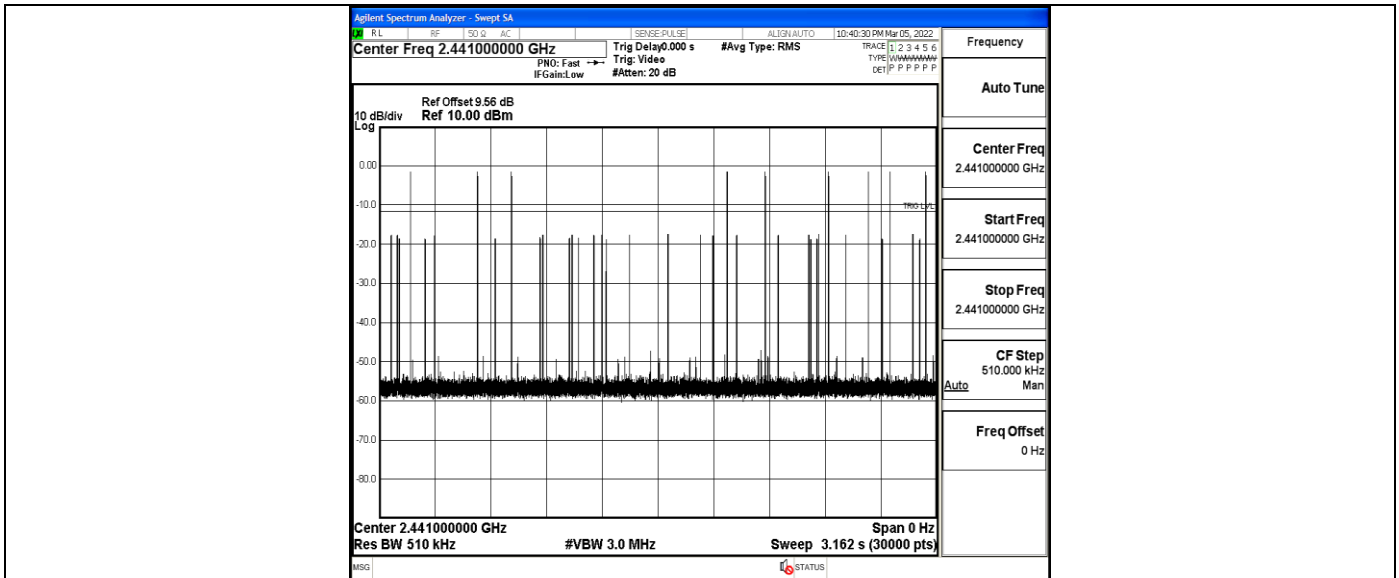
### Test Result

| TestMode | Antenna | Channel | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|---------|--------------------|--------------------|-----------|----------|---------|
| DH5      | Ant1    | Hop     | 2.89               | 80                 | 0.231     | <=0.4    | PASS    |
| 2DH5     | Ant1    | Hop     | 2.89               | 110                | 0.318     | <=0.4    | PASS    |
| 3DH5     | Ant1    | Hop     | 2.89               | 130                | 0.376     | <=0.4    | PASS    |

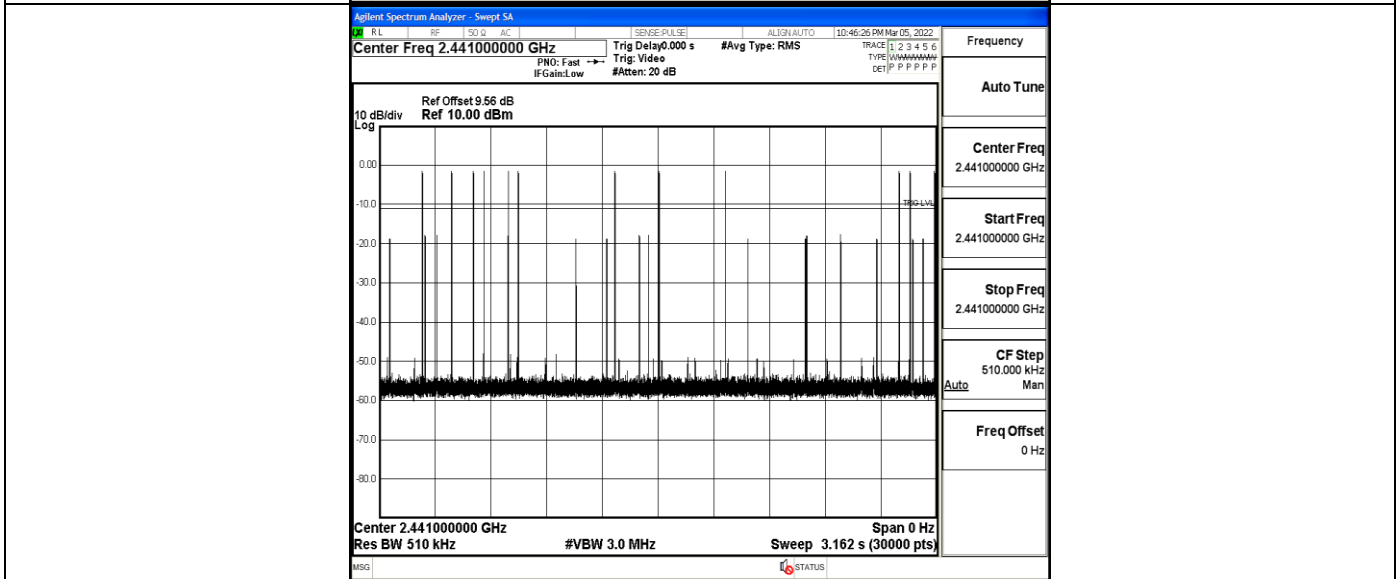
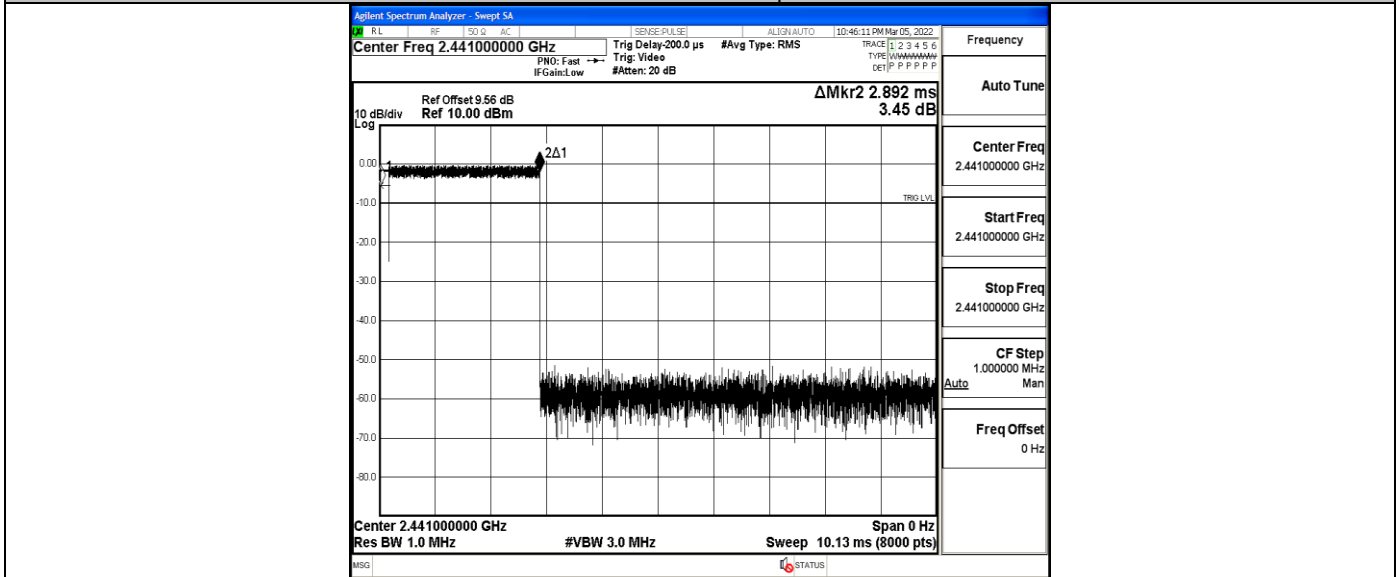
### Test Graphs







3DH5\_Ant1\_Hop

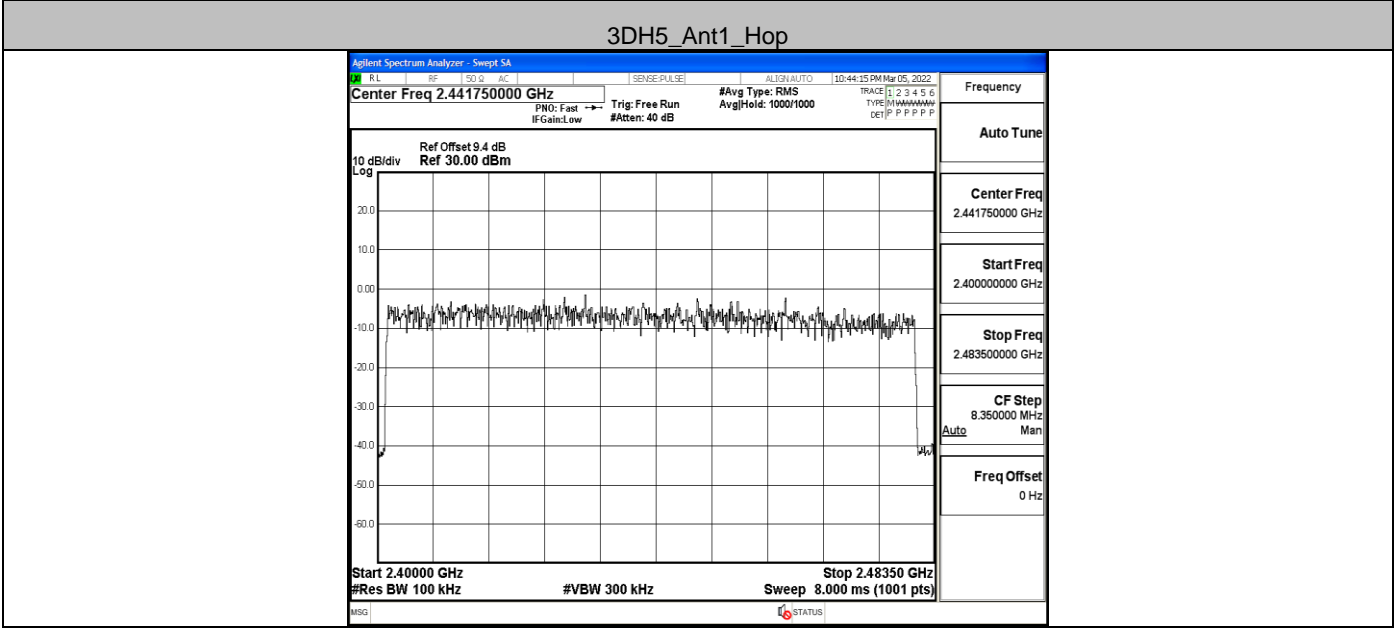
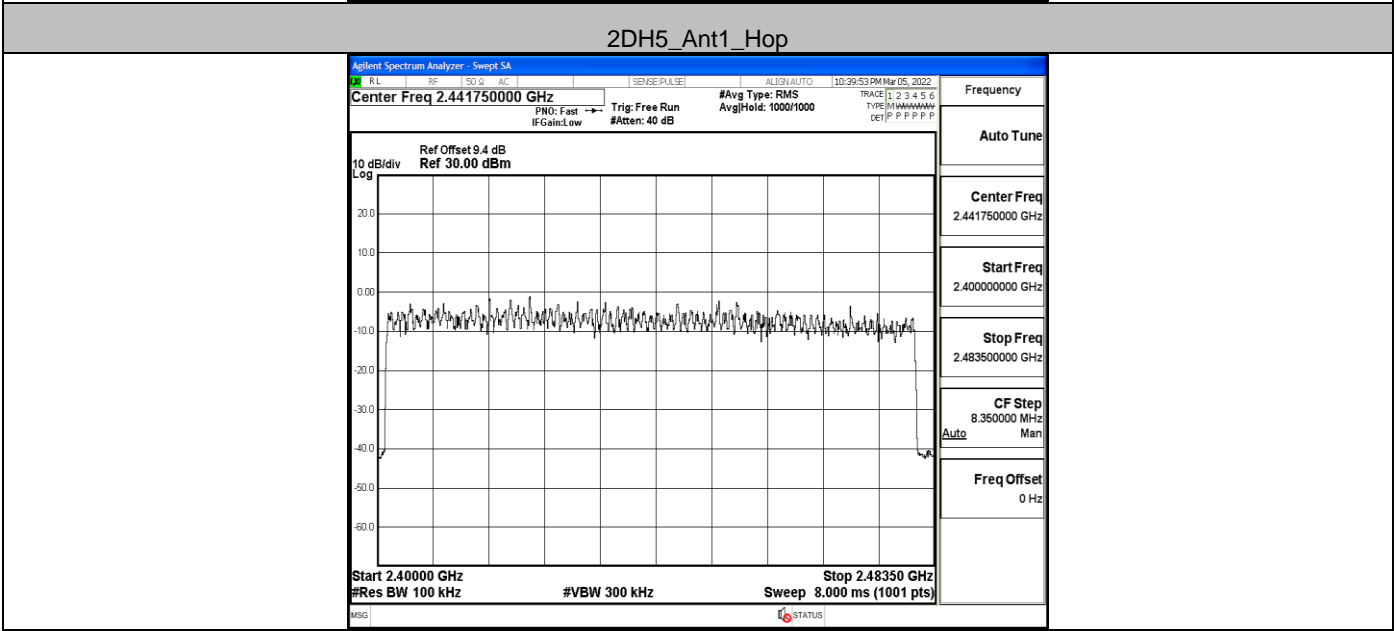
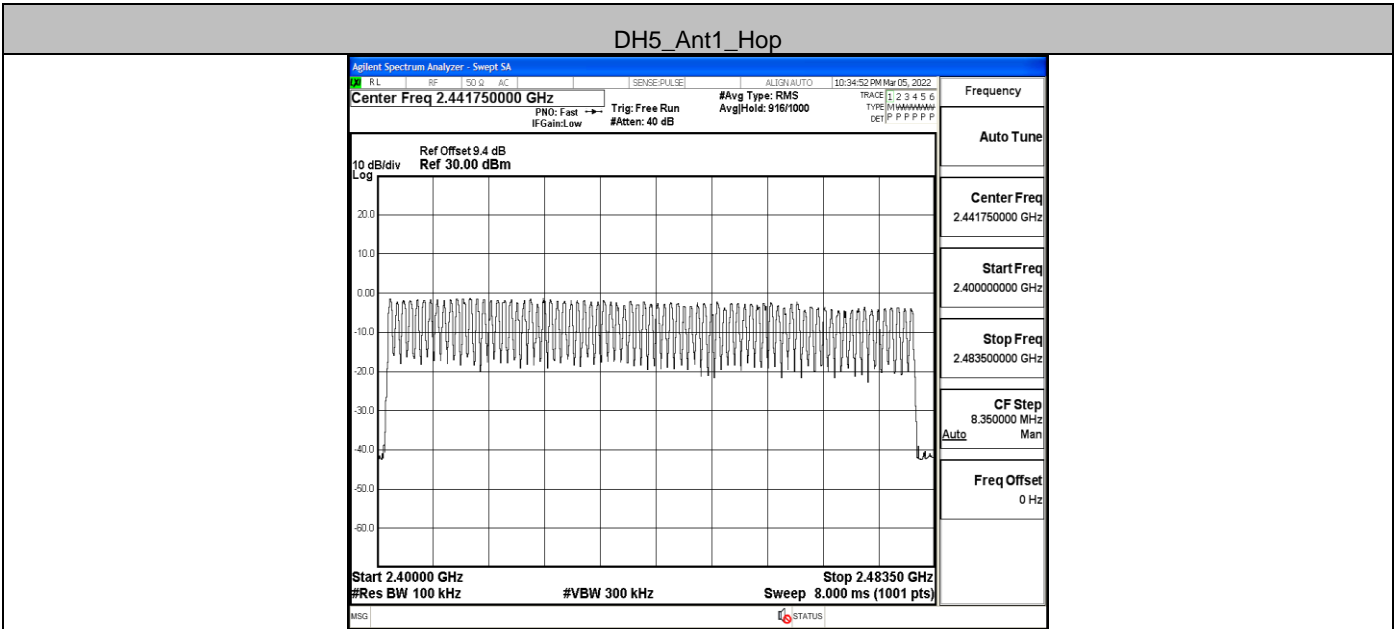


## Appendix F: Number of hopping channels

### Test Result

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

### Test Graphs



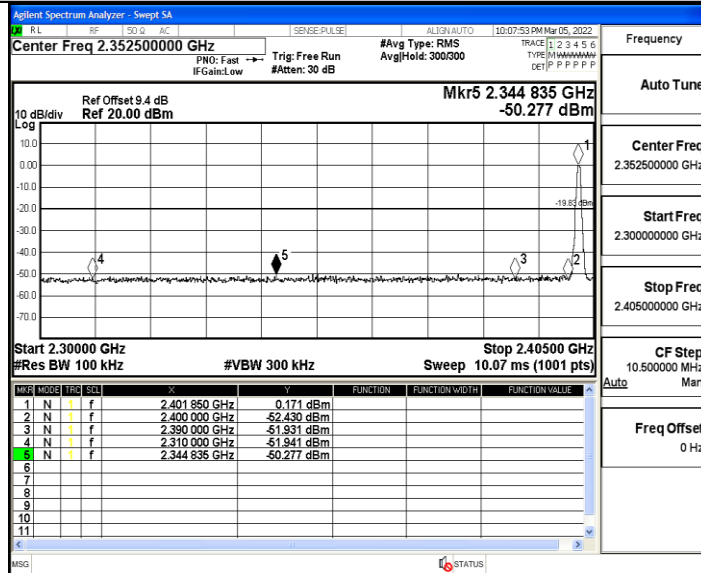
## Appendix G: Band edge measurements

### Test Result

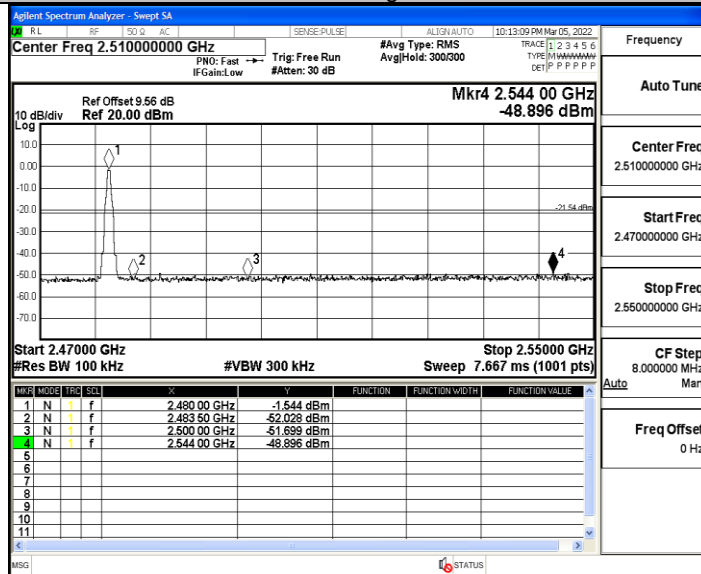
| TestMode | Antenna | ChName | Channel  | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------|----------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | Low    | 2402     | 0.17              | -50.28          | ≤-19.83        | PASS    |
|          |         | High   | 2480     | -1.54             | -48.9           | ≤-21.54        | PASS    |
|          |         | Low    | Hop_2402 | -1.68             | -49.31          | ≤-21.68        | PASS    |
|          |         | High   | Hop_2480 | -3.55             | -49.04          | ≤-23.55        | PASS    |
| 2DH5     | Ant1    | Low    | 2402     | -1.32             | -49.64          | ≤-21.32        | PASS    |
|          |         | High   | 2480     | -4.19             | -48.01          | ≤-24.19        | PASS    |
|          |         | Low    | Hop_2402 | -4.99             | -50.29          | ≤-24.99        | PASS    |
|          |         | High   | Hop_2480 | -3.14             | -48.74          | ≤-23.14        | PASS    |
| 3DH5     | Ant1    | Low    | 2402     | -1.30             | -49.64          | ≤-21.3         | PASS    |
|          |         | High   | 2480     | -3.40             | -49.47          | ≤-23.4         | PASS    |
|          |         | Low    | Hop_2402 | -4.98             | -50.05          | ≤-24.98        | PASS    |
|          |         | High   | Hop_2480 | -3.20             | -47.98          | ≤-23.2         | PASS    |

### Test Graphs

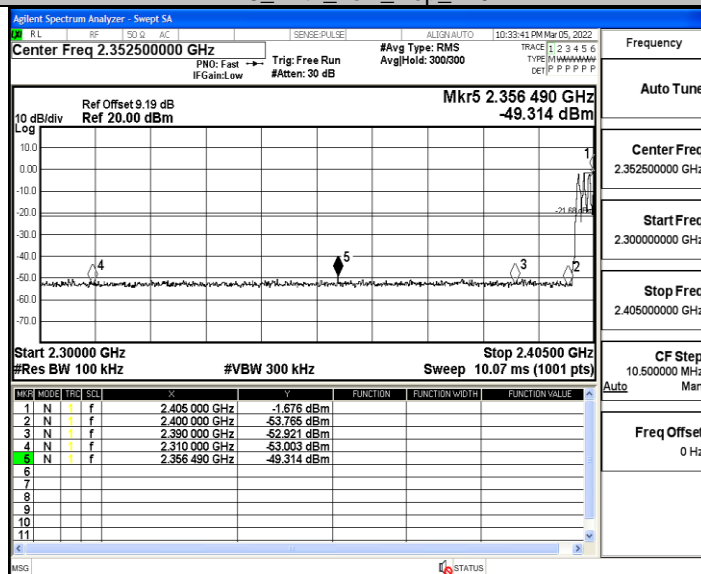
#### DH5\_Ant1\_Low\_2402



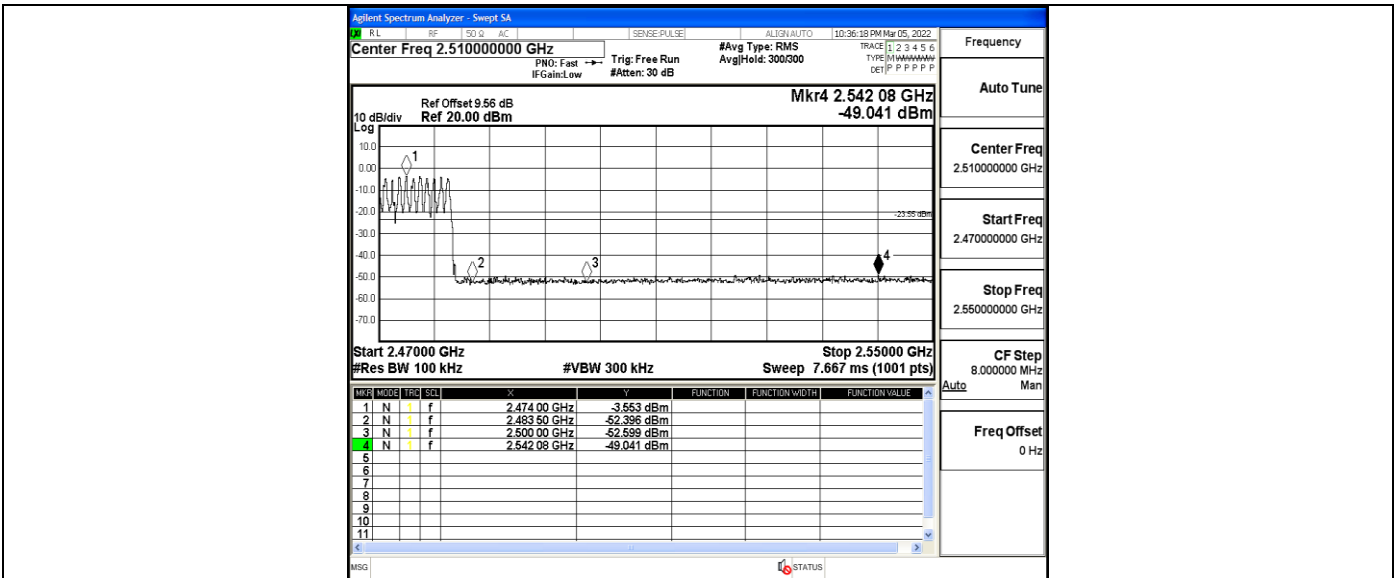
#### DH5\_Ant1\_High\_2480



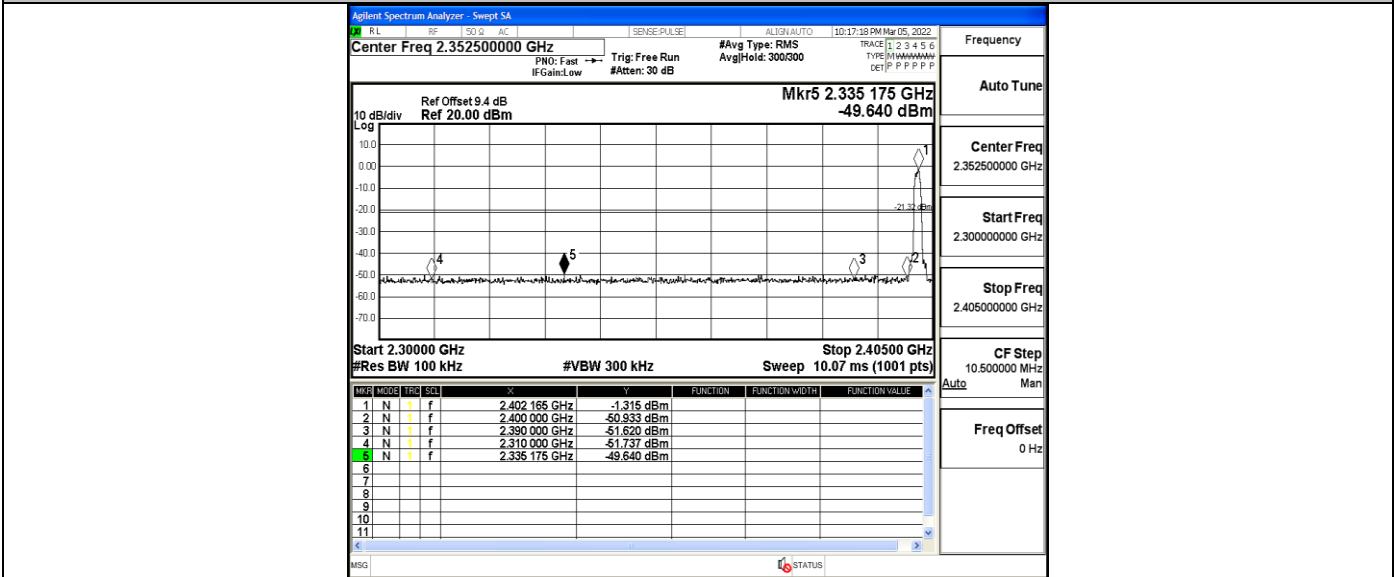
#### DH5\_Ant1\_Low\_Hop\_2402



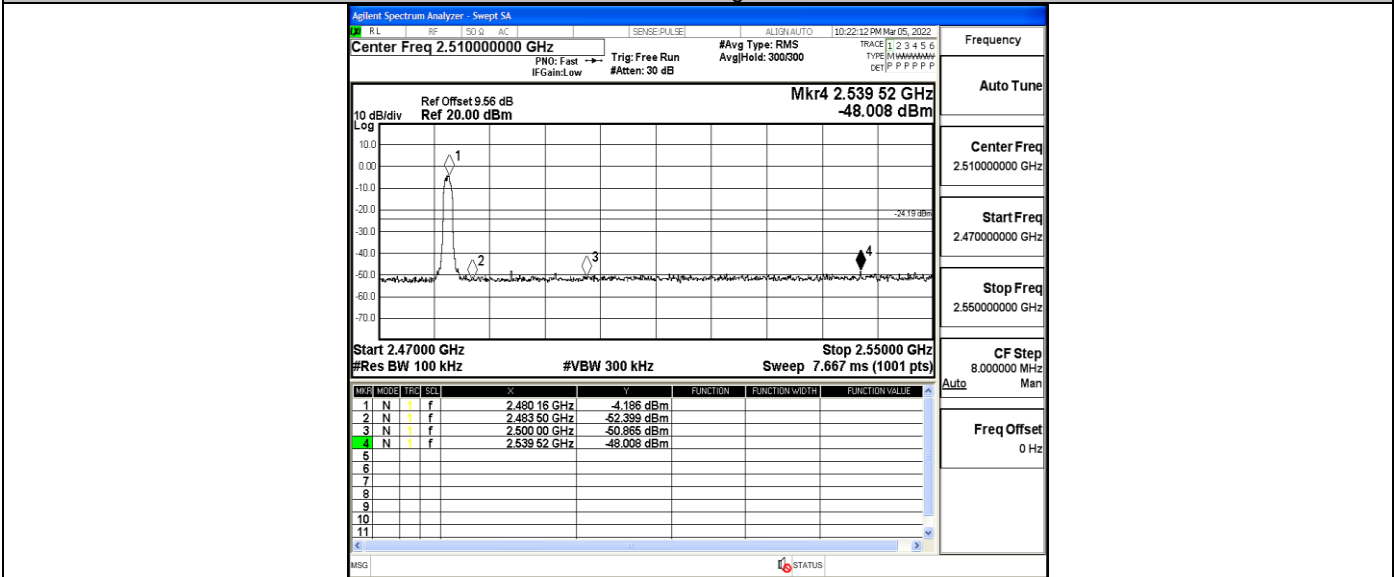
#### DH5\_Ant1\_High\_Hop\_2480



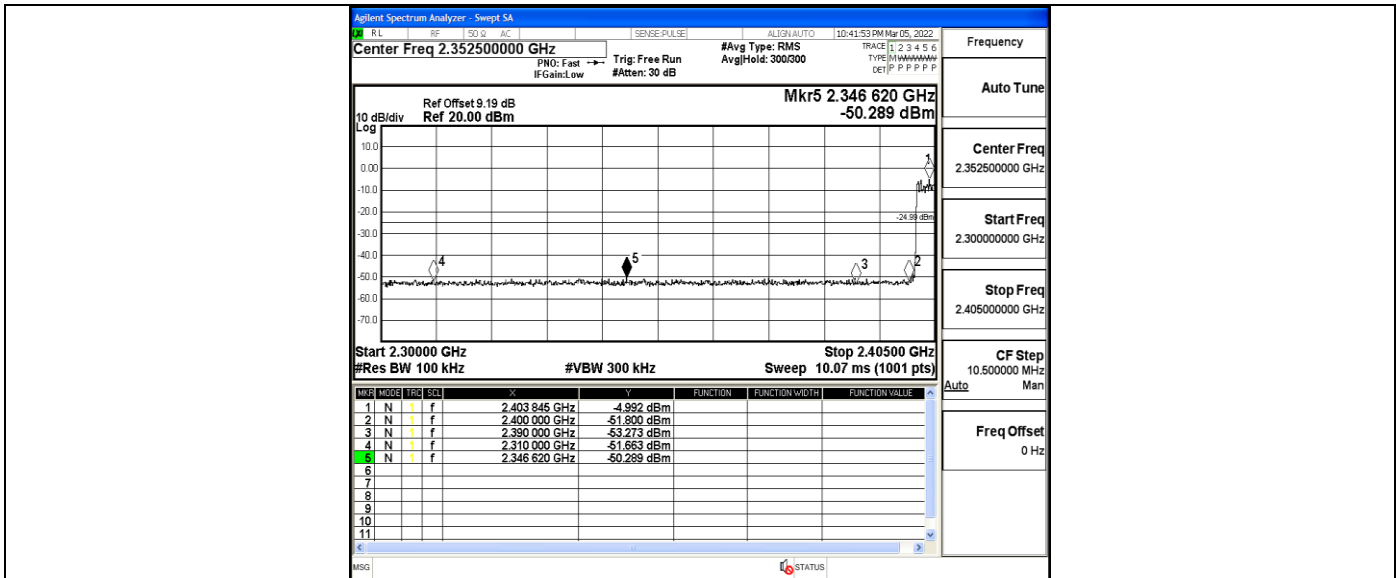
2DH5\_Ant1\_Low\_2402



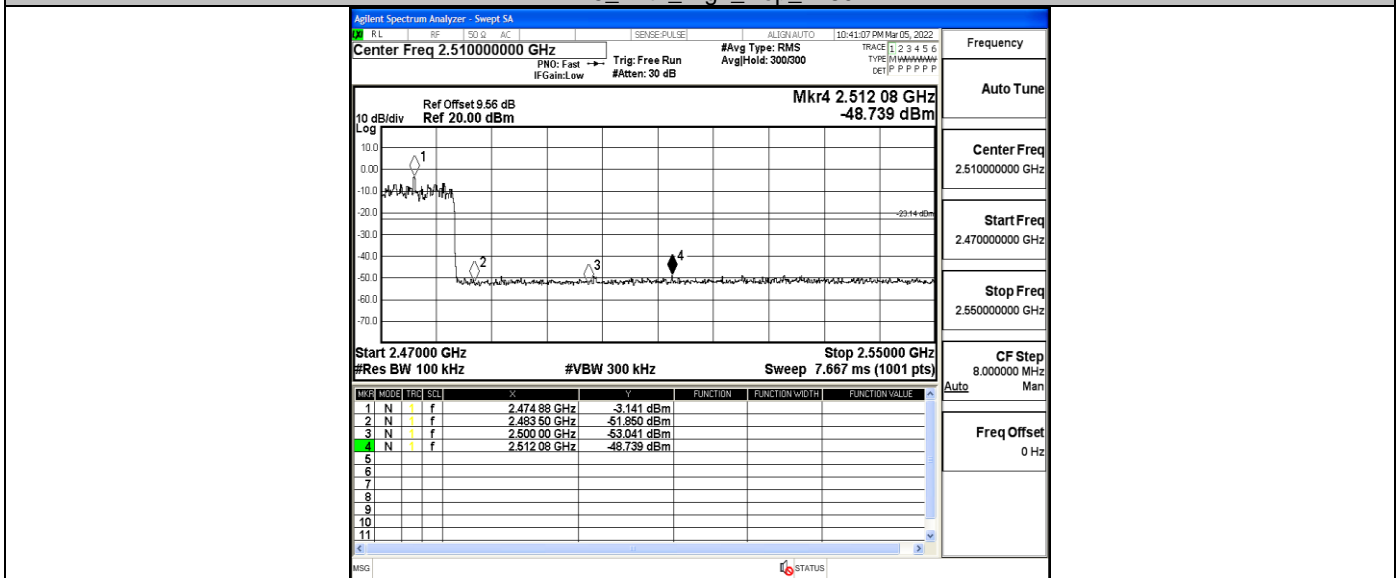
2DH5\_Ant1\_High\_2480



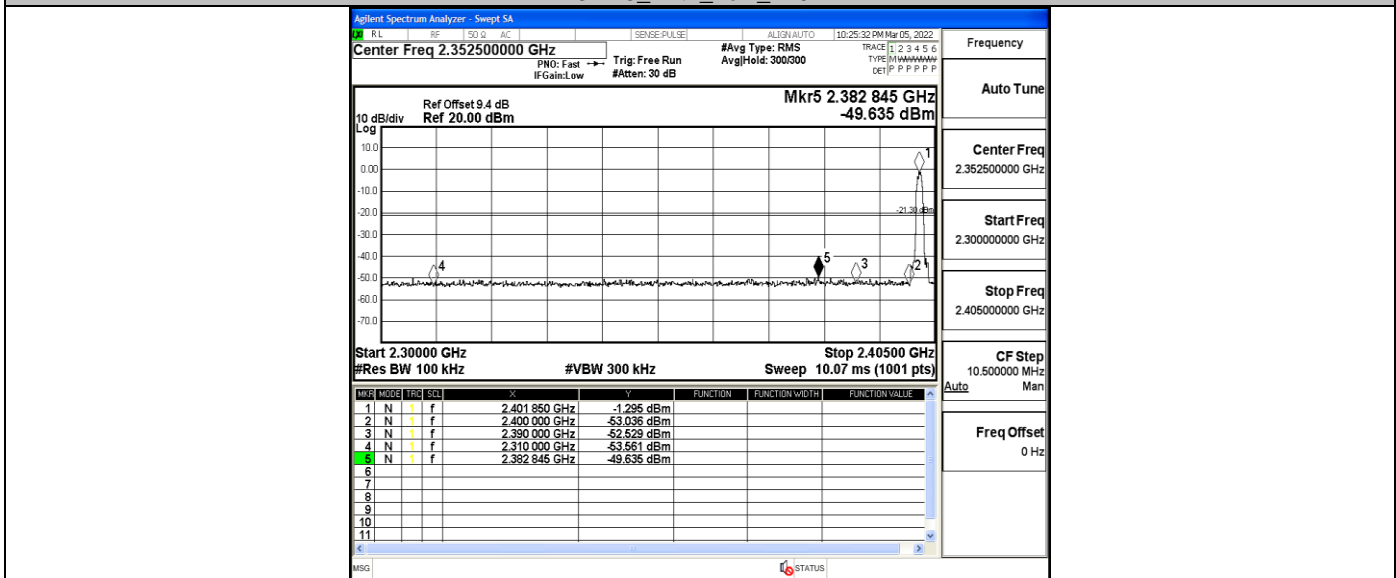
2DH5\_Ant1\_Low\_Hop\_2402



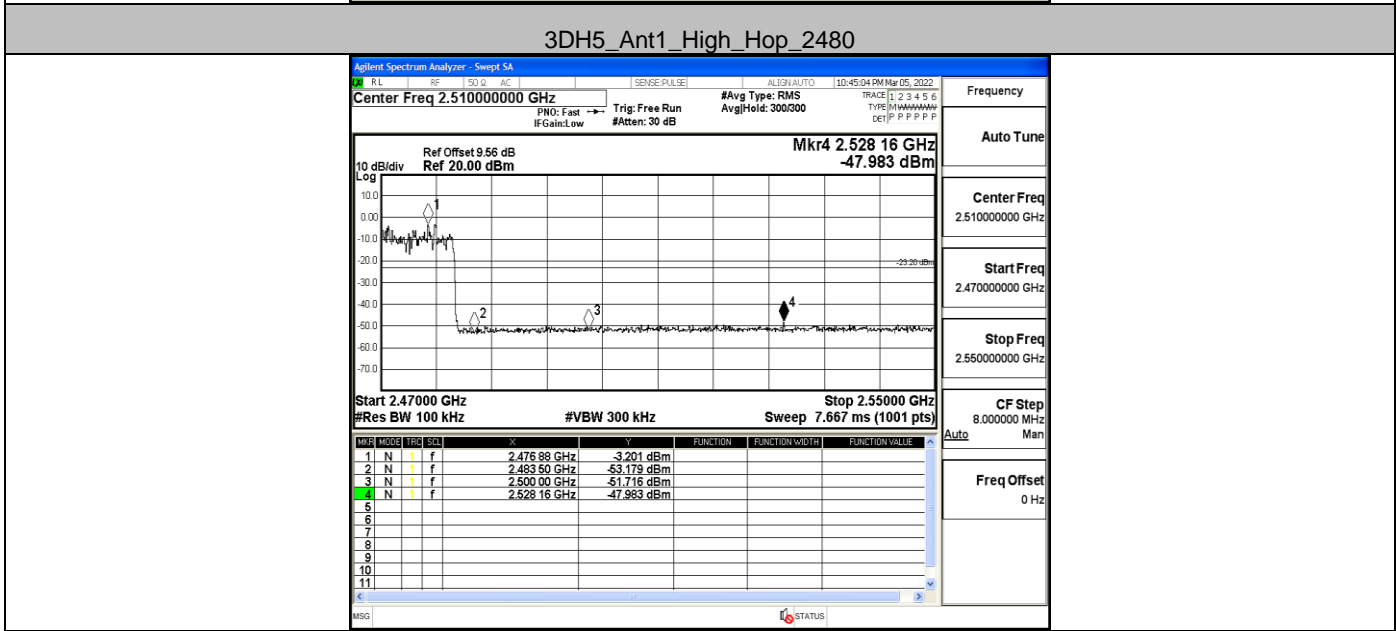
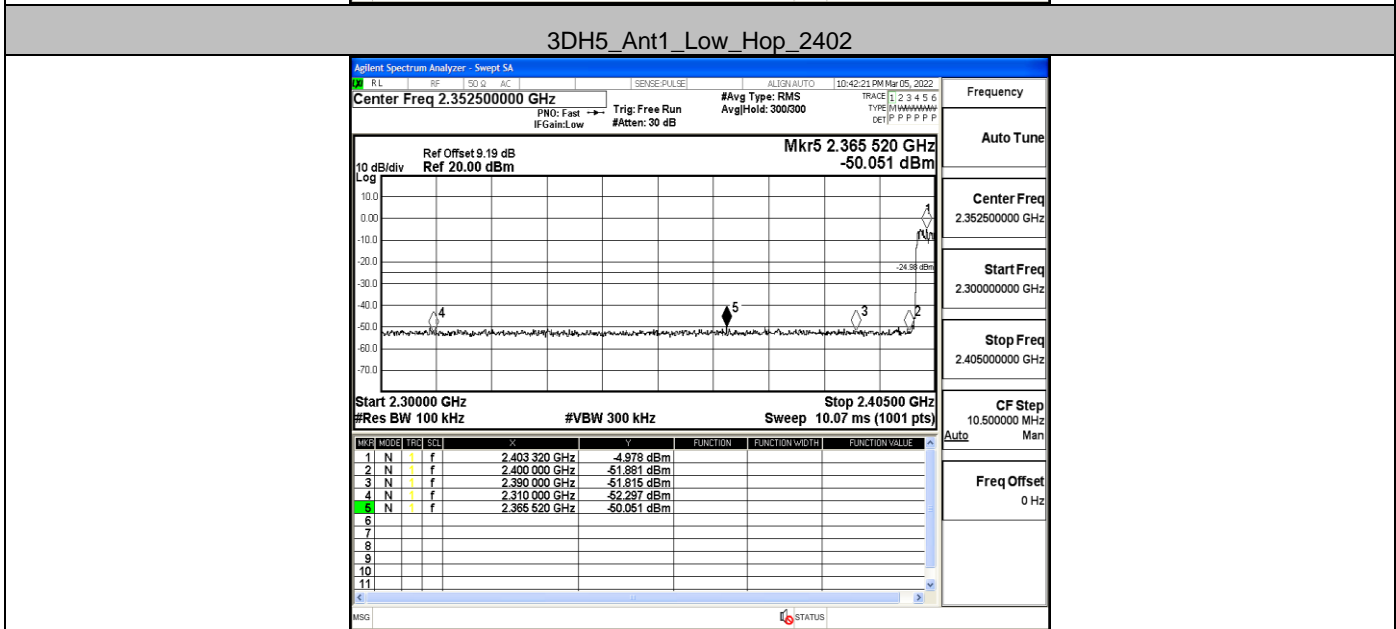
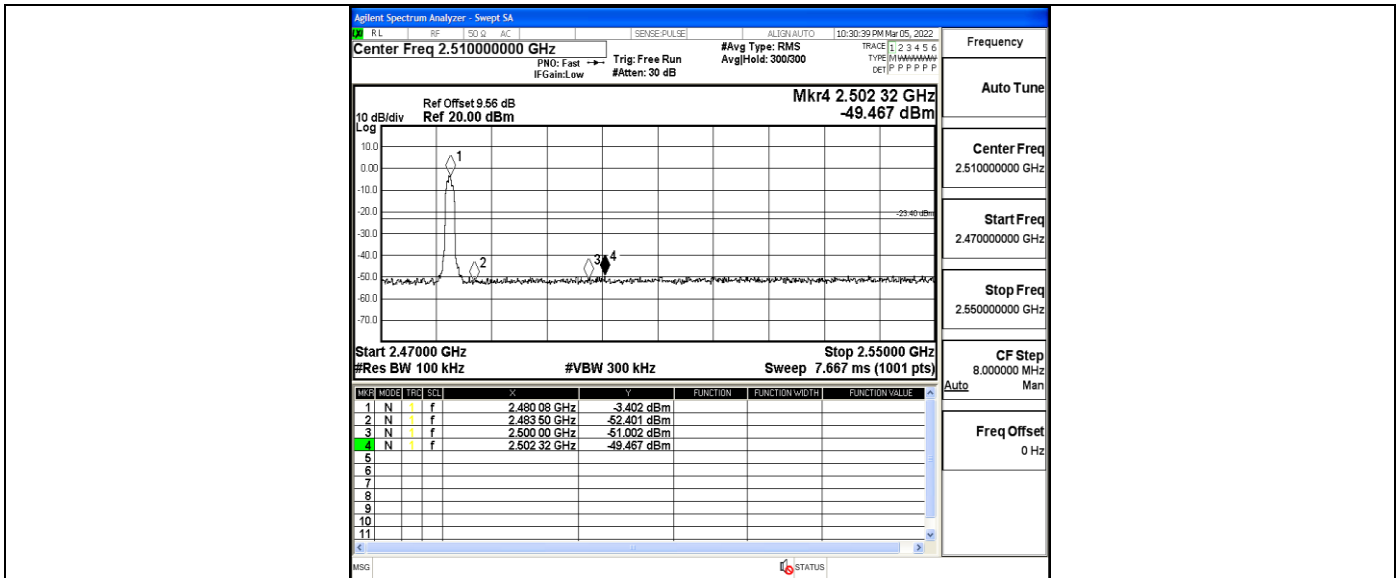
2DH5\_Ant1\_High\_Hop\_2480



3DH5\_Ant1\_Low\_2402



3DH5\_Ant1\_High\_2480





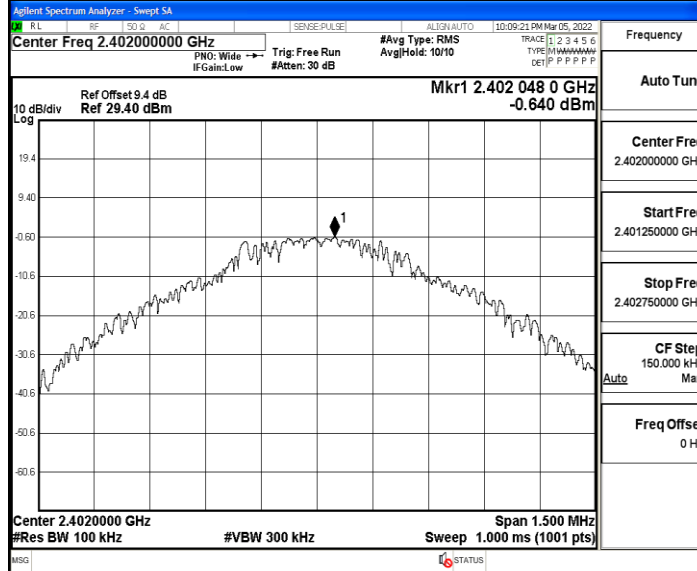
## Appendix H: Conducted Spurious Emission

### Test Result

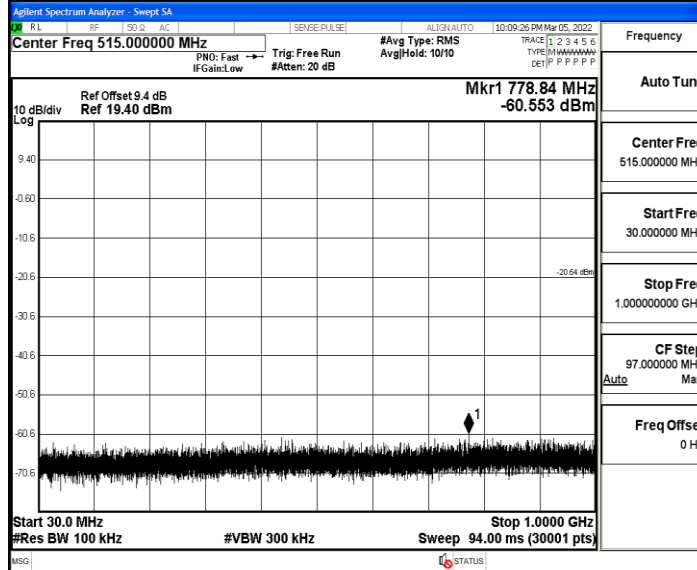
| TestMode | Antenna | Channel | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| DH5      | Ant1    | 2402    | Reference          | -0.64             | -0.64           | ---            | PASS    |
|          |         |         | 30~1000            | -0.64             | -60.55          | ≤-20.64        | PASS    |
|          |         |         | 1000~26500         | -0.64             | -47.22          | ≤-20.64        | PASS    |
|          |         | 2441    | Reference          | -0.89             | -0.89           | ---            | PASS    |
|          |         |         | 30~1000            | -0.89             | -60.83          | ≤-20.89        | PASS    |
|          |         |         | 1000~26500         | -0.89             | -49.42          | ≤-20.89        | PASS    |
|          |         | 2480    | Reference          | -2.25             | -2.25           | ---            | PASS    |
|          |         |         | 30~1000            | -2.25             | -60.01          | ≤-22.25        | PASS    |
|          |         |         | 1000~26500         | -2.25             | -50.01          | ≤-22.25        | PASS    |
| 2DH5     | Ant1    | 2402    | Reference          | -4.18             | -4.18           | ---            | PASS    |
|          |         |         | 30~1000            | -4.18             | -60.39          | ≤-24.18        | PASS    |
|          |         |         | 1000~26500         | -4.18             | -49.94          | ≤-24.18        | PASS    |
|          |         | 2441    | Reference          | -1.82             | -1.82           | ---            | PASS    |
|          |         |         | 30~1000            | -1.82             | -60.91          | ≤-21.82        | PASS    |
|          |         |         | 1000~26500         | -1.82             | -50.27          | ≤-21.82        | PASS    |
|          |         | 2480    | Reference          | -6.40             | -6.40           | ---            | PASS    |
|          |         |         | 30~1000            | -6.40             | -60.3           | ≤-26.4         | PASS    |
|          |         |         | 1000~26500         | -6.40             | -50.01          | ≤-26.4         | PASS    |
| 3DH5     | Ant1    | 2402    | Reference          | -4.78             | -4.78           | ---            | PASS    |
|          |         |         | 30~1000            | -4.78             | -60.33          | ≤-24.78        | PASS    |
|          |         |         | 1000~26500         | -4.78             | -49.57          | ≤-24.78        | PASS    |
|          |         | 2441    | Reference          | -2.17             | -2.17           | ---            | PASS    |
|          |         |         | 30~1000            | -2.17             | -61.21          | ≤-22.17        | PASS    |
|          |         |         | 1000~26500         | -2.17             | -49.71          | ≤-22.17        | PASS    |
|          |         | 2480    | Reference          | -6.37             | -6.37           | ---            | PASS    |
|          |         |         | 30~1000            | -6.37             | -61.83          | ≤-26.37        | PASS    |
|          |         |         | 1000~26500         | -6.37             | -49.27          | ≤-26.37        | PASS    |

Test Graphs

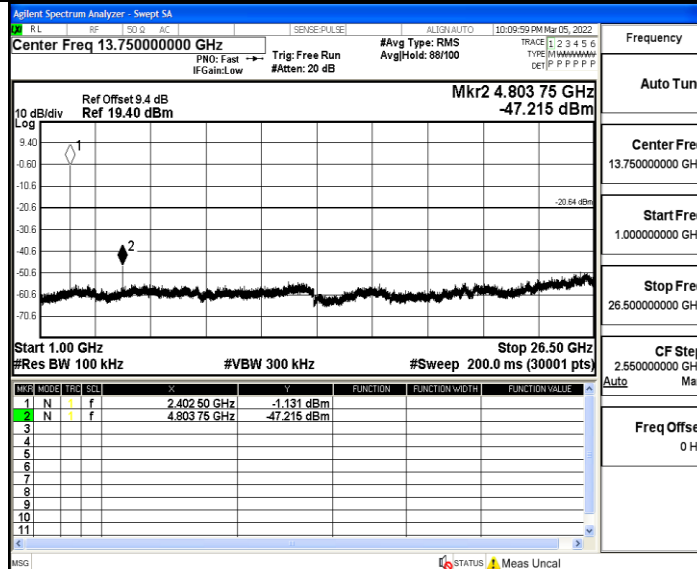
DH5\_Ant1\_2402\_0~Reference



DH5\_Ant1\_2402\_30~1000



DH5\_Ant1\_2402\_1000~26500



DH5\_Ant1\_2441\_0~Reference