

## Appendix Test Data

|                  |                   |                    |                    |
|------------------|-------------------|--------------------|--------------------|
| Report No:       | 182512C400451101  | Test Sample NO:    | 1-2-2              |
| Start Test Date: | 2024.8.12         | Finish Test Date:  | 2024.8.12          |
| Test Engineer:   | <i>Joker Wang</i> | Auditor:           | <i>Justin Feng</i> |
| Temperature:     | 22.5°C            | Relative Humidity: | 51.1%              |
| Pressure:        | 101 kPa           |                    |                    |

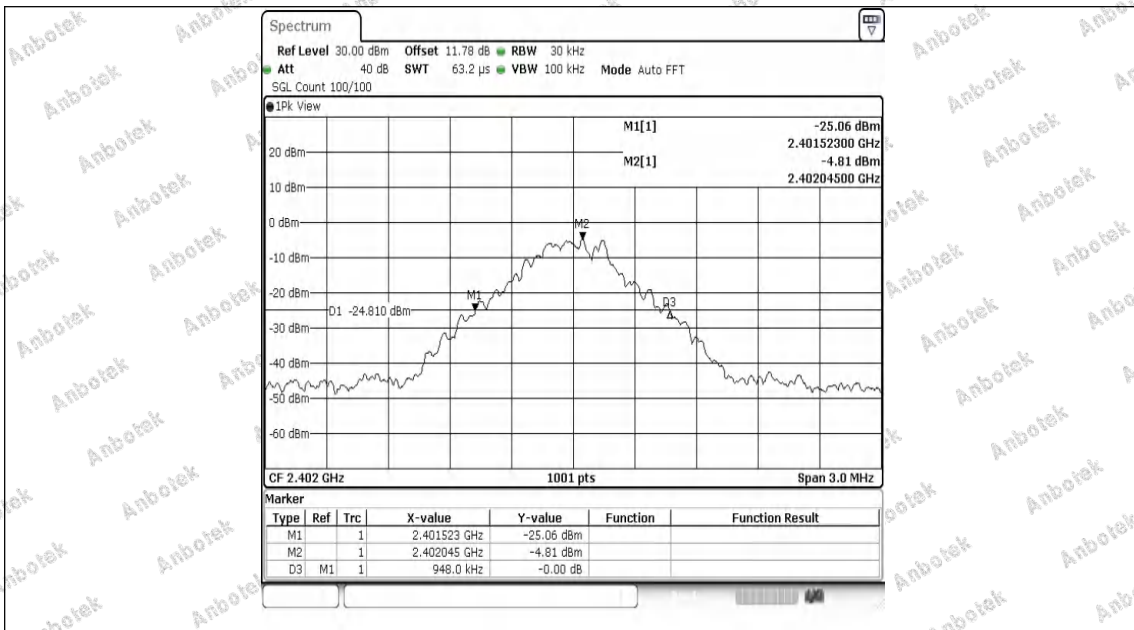
## Appendix A: 20dB Emission Bandwidth

## Test Result

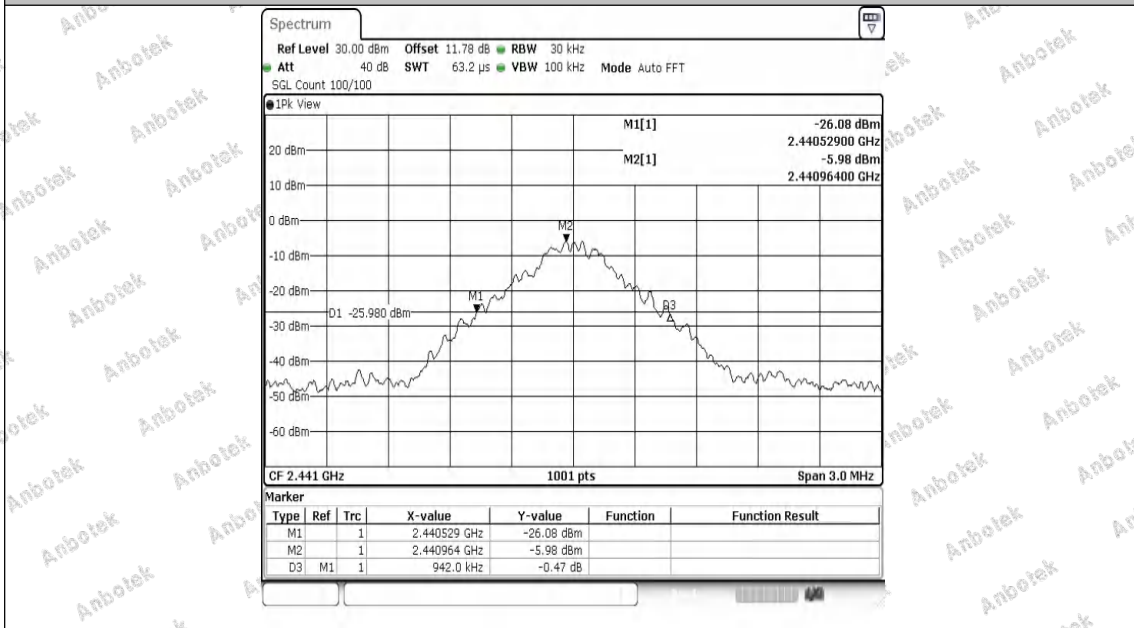
| TestMode | Antenna | Frequency[MHz] | 20db<br>EBW[MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|------------------|---------|---------|------------|---------|
| DH5      | Ant1    | 2402           | 0.95             | 2401.52 | 2402.47 | ---        | ---     |
| DH5      | Ant1    | 2441           | 0.94             | 2440.53 | 2441.47 | ---        | ---     |
| DH5      | Ant1    | 2480           | 0.95             | 2479.53 | 2480.47 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.34             | 2401.32 | 2402.66 | ---        | ---     |
| 2DH5     | Ant1    | 2441           | 1.35             | 2440.31 | 2441.67 | ---        | ---     |
| 2DH5     | Ant1    | 2480           | 1.29             | 2479.36 | 2480.64 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.30             | 2401.34 | 2402.64 | ---        | ---     |
| 3DH5     | Ant1    | 2441           | 1.28             | 2440.34 | 2441.62 | ---        | ---     |
| 3DH5     | Ant1    | 2480           | 1.34             | 2479.31 | 2480.65 | ---        | ---     |



## Test Graphs

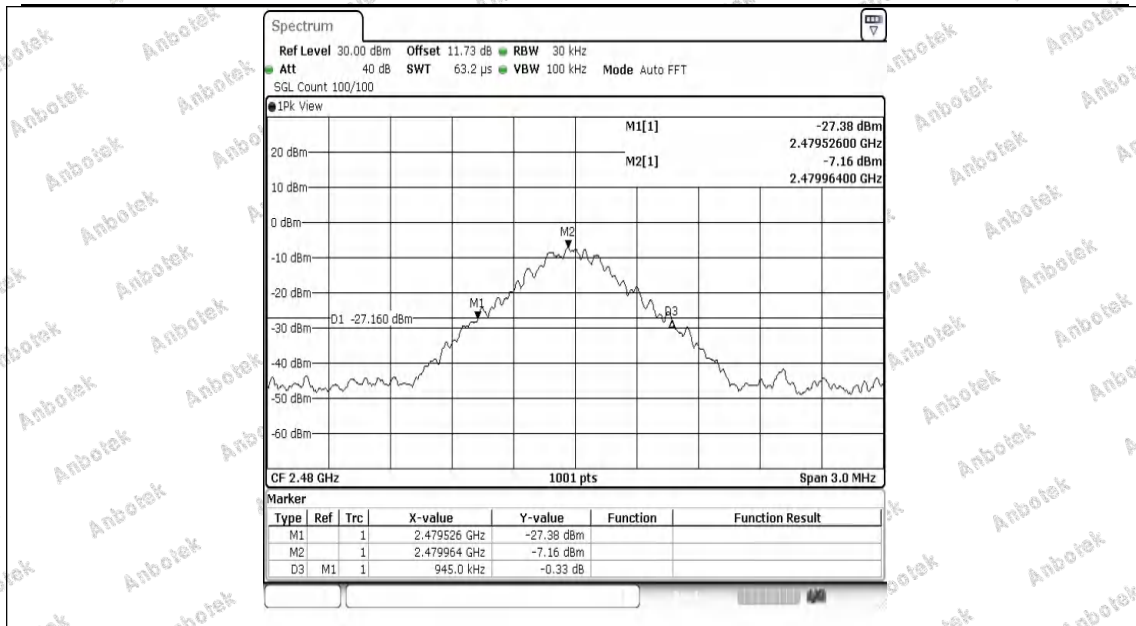


DH5-Ant1-2402

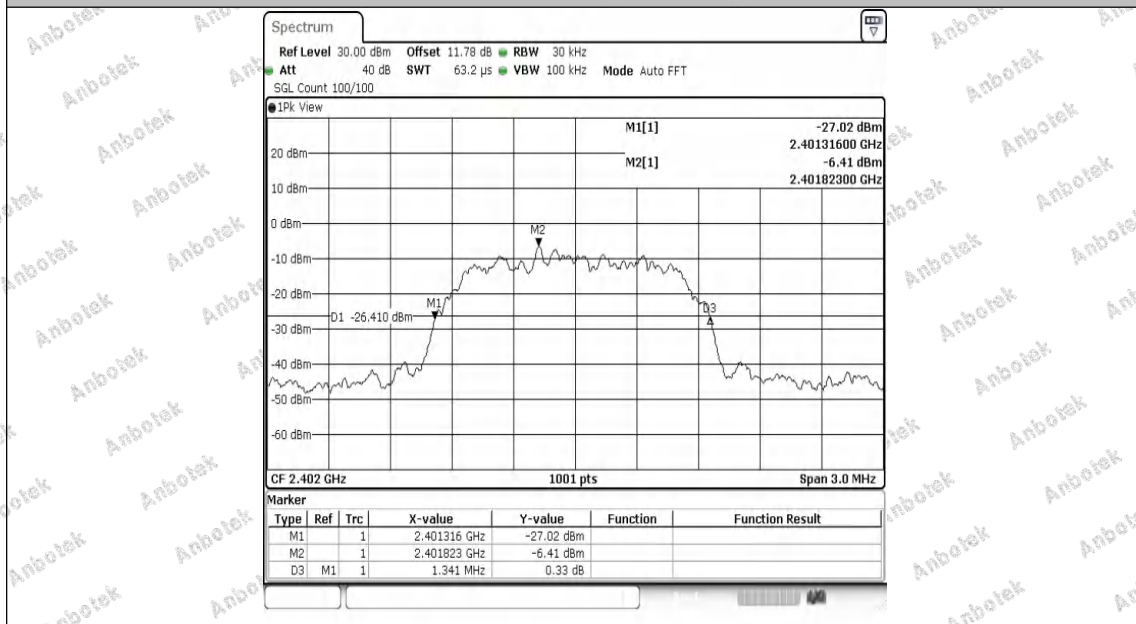


DH5-Ant1-2441



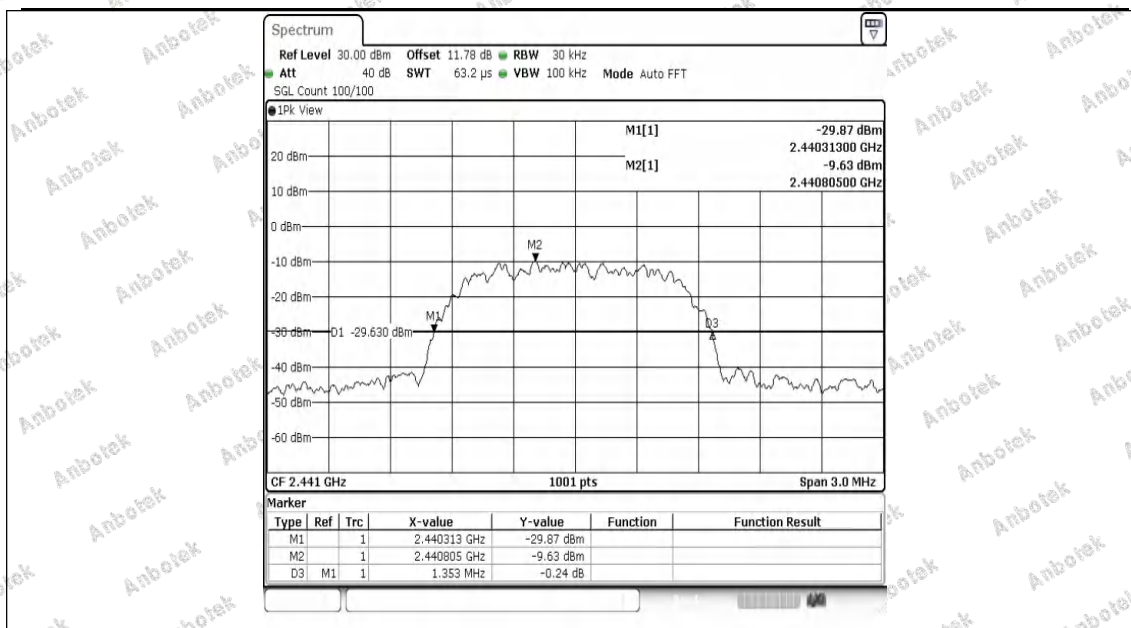


DH5-Ant1-2480

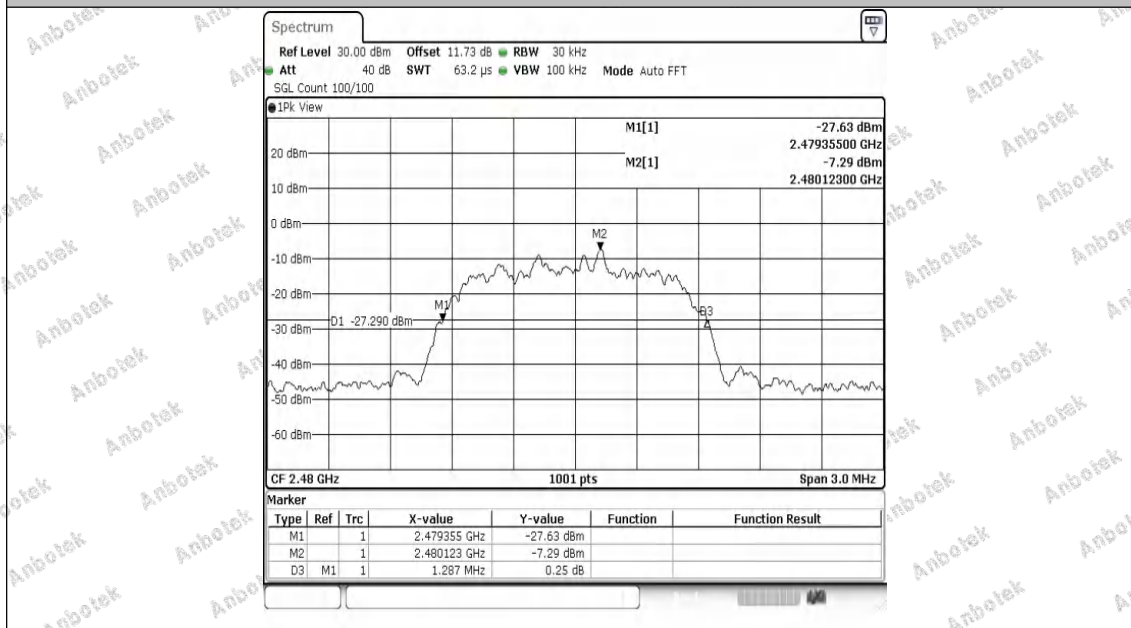


2DH5-Ant1-2402



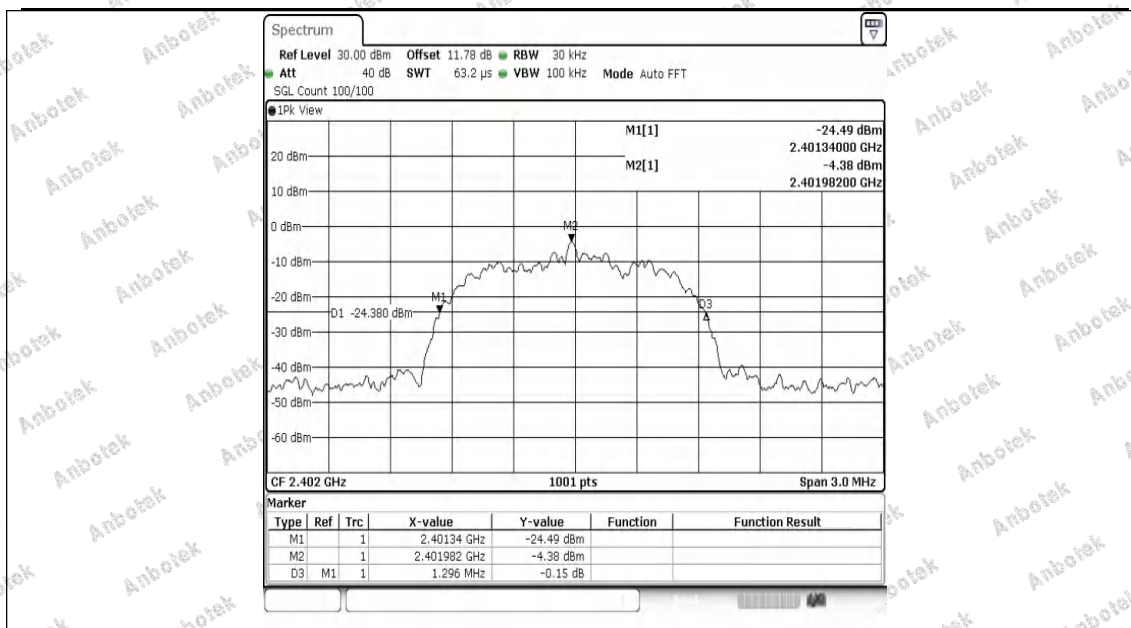


2DH5-Ant1-2441

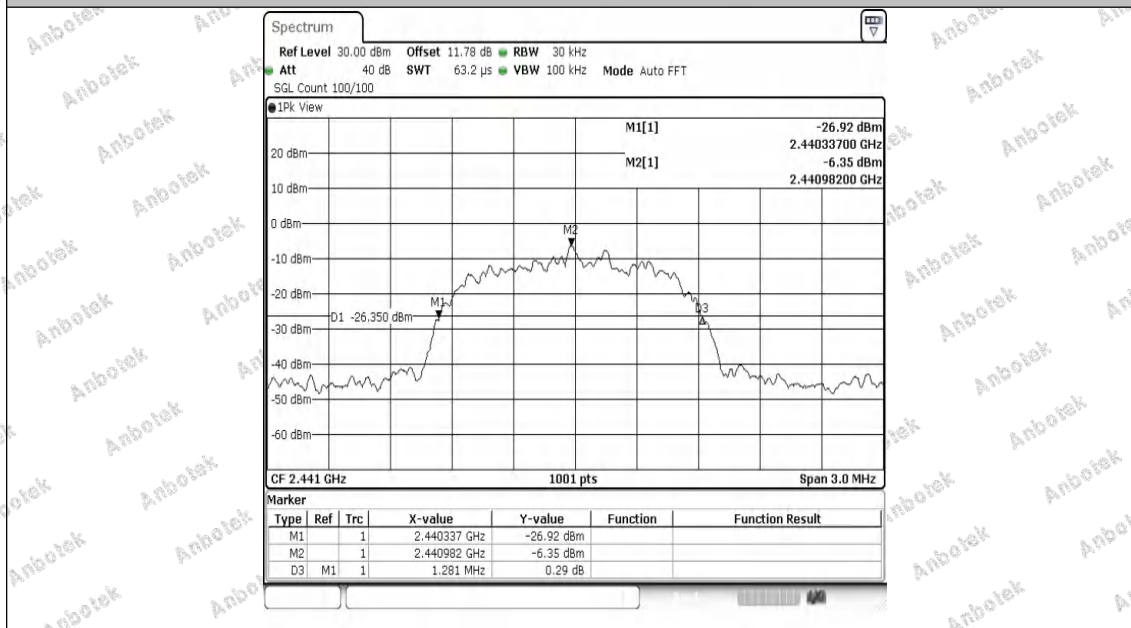


2DH5-Ant1-2480



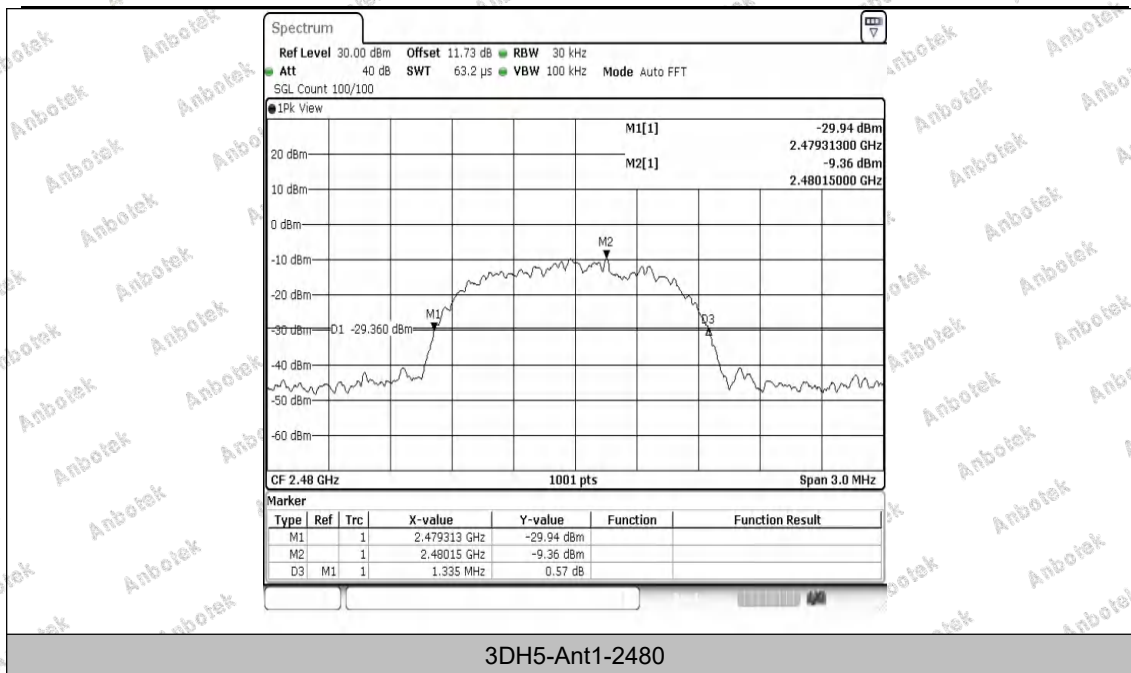


3DH5-Ant1-2402



3DH5-Ant1-2441





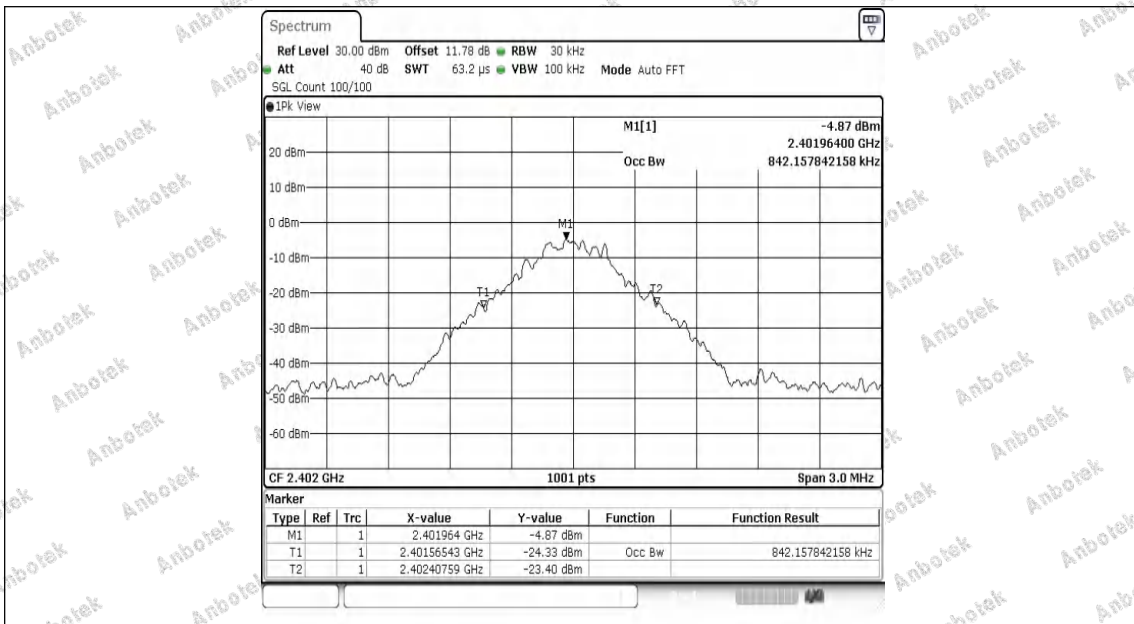
## Appendix B: Occupied Channel Bandwidth

### Test Result

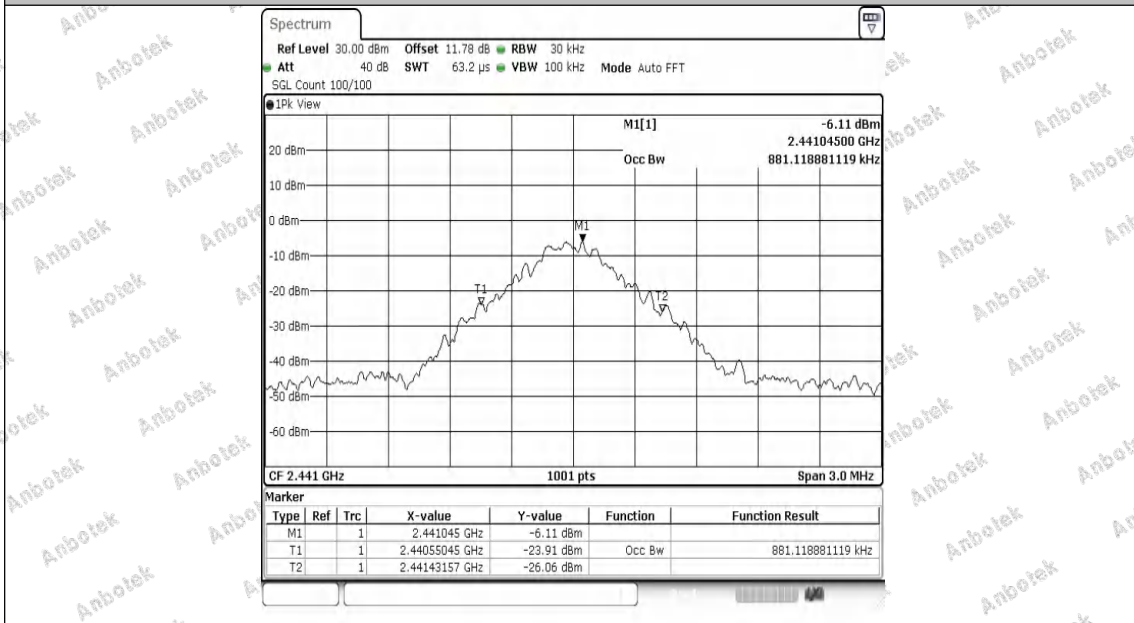
| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|----------|---------|----------------|-----------|-----------|-----------|------------|---------|
| DH5      | Ant1    | 2402           | 0.842     | 2401.5654 | 2402.4076 | ---        | ---     |
| DH5      | Ant1    | 2441           | 0.881     | 2440.5504 | 2441.4316 | ---        | ---     |
| DH5      | Ant1    | 2480           | 0.839     | 2479.5654 | 2480.4046 | ---        | ---     |
| 2DH5     | Ant1    | 2402           | 1.175     | 2401.3976 | 2402.5724 | ---        | ---     |
| 2DH5     | Ant1    | 2441           | 1.184     | 2440.3946 | 2441.5784 | ---        | ---     |
| 2DH5     | Ant1    | 2480           | 1.19      | 2479.3916 | 2480.5814 | ---        | ---     |
| 3DH5     | Ant1    | 2402           | 1.193     | 2401.3886 | 2402.5814 | ---        | ---     |
| 3DH5     | Ant1    | 2441           | 1.193     | 2440.3886 | 2441.5814 | ---        | ---     |
| 3DH5     | Ant1    | 2480           | 1.184     | 2479.3946 | 2480.5784 | ---        | ---     |



## Test Graphs



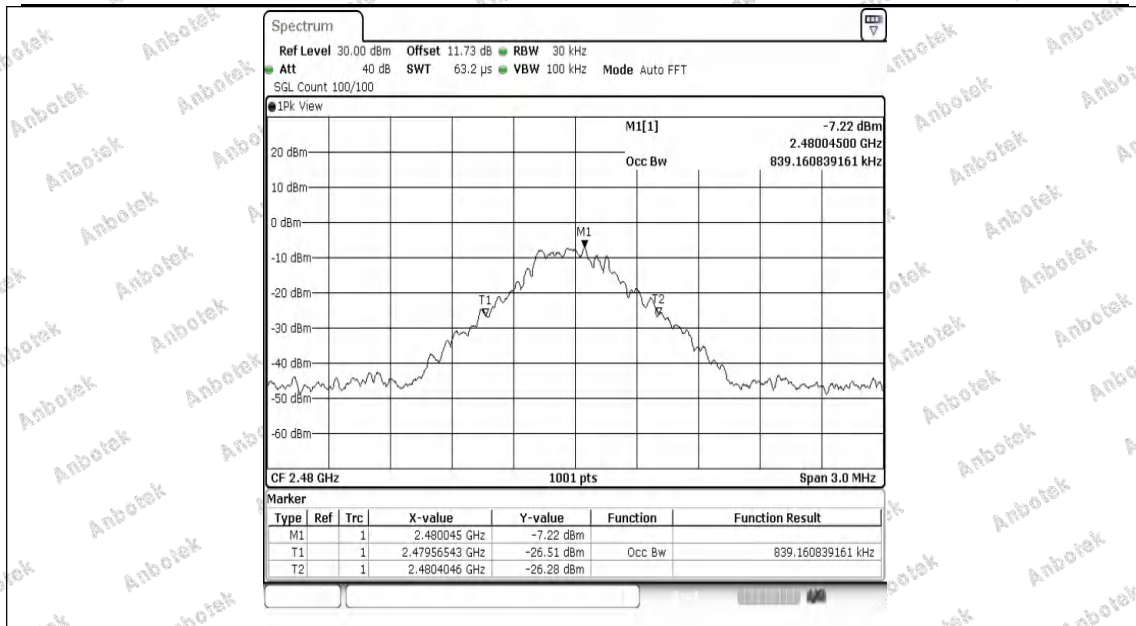
DH5-Ant1-2402



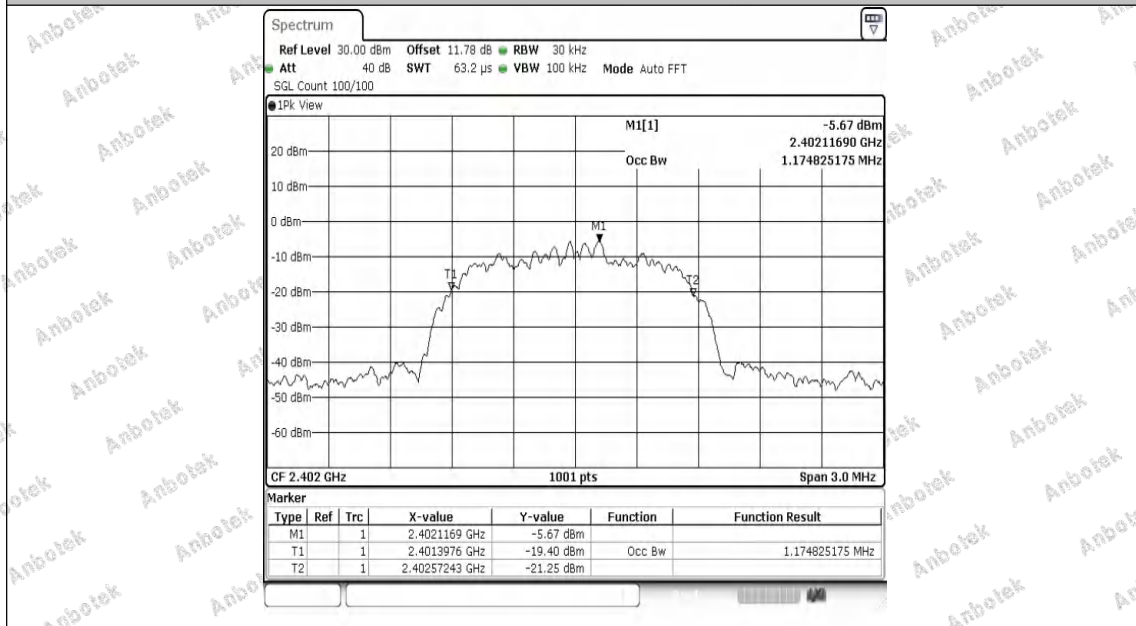
DH5-Ant1-2441





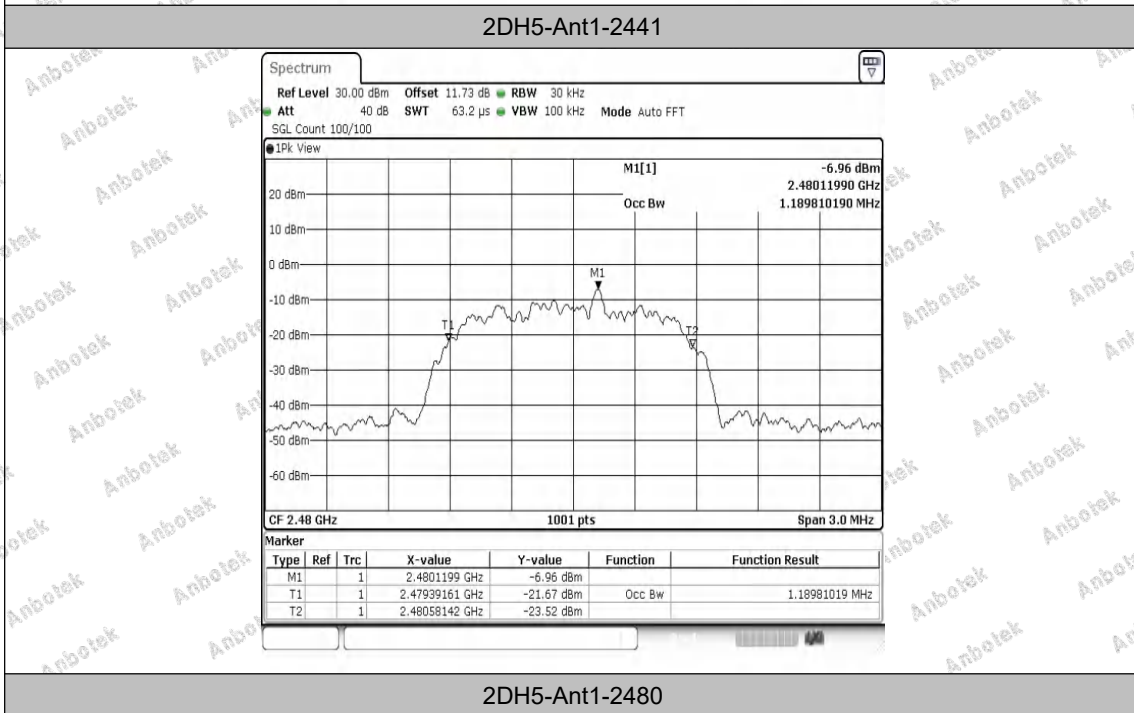
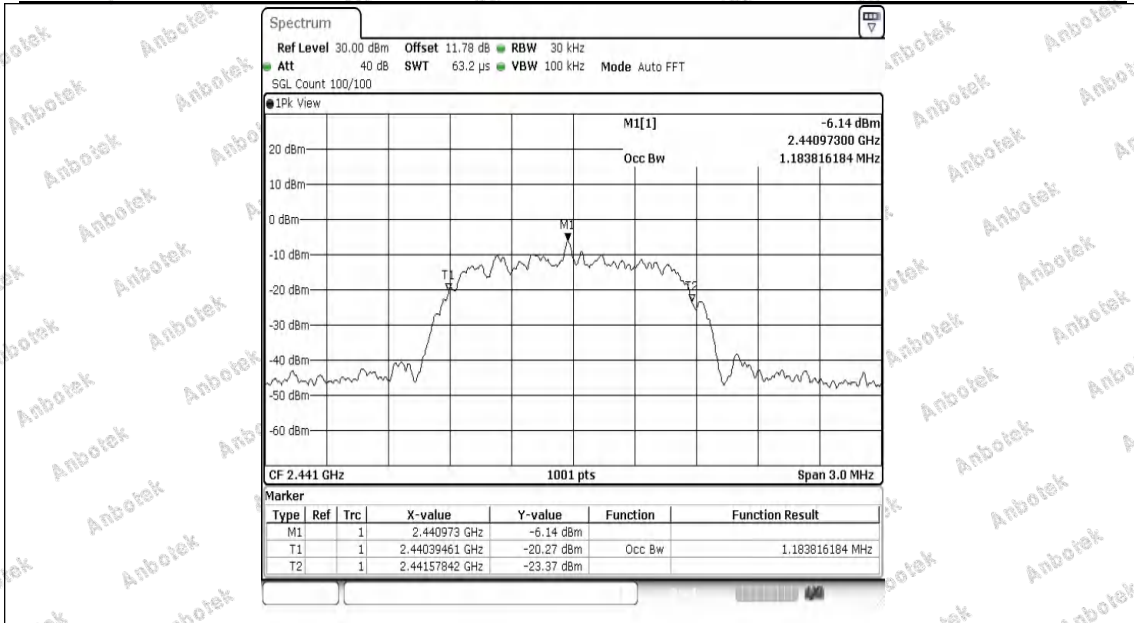


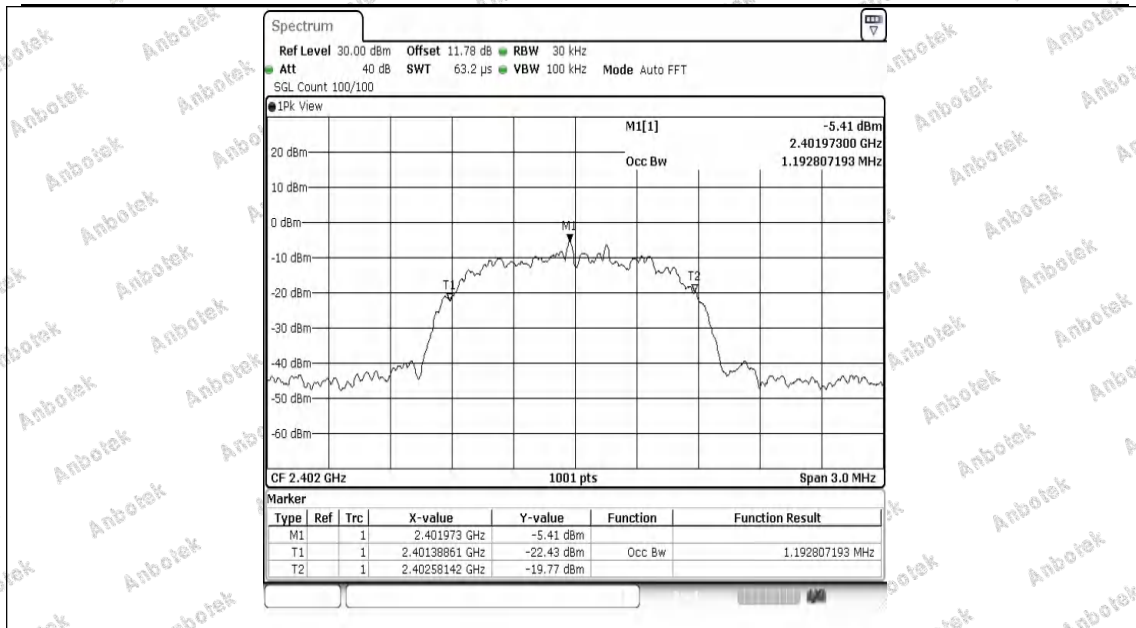
DH5-Ant1-2480



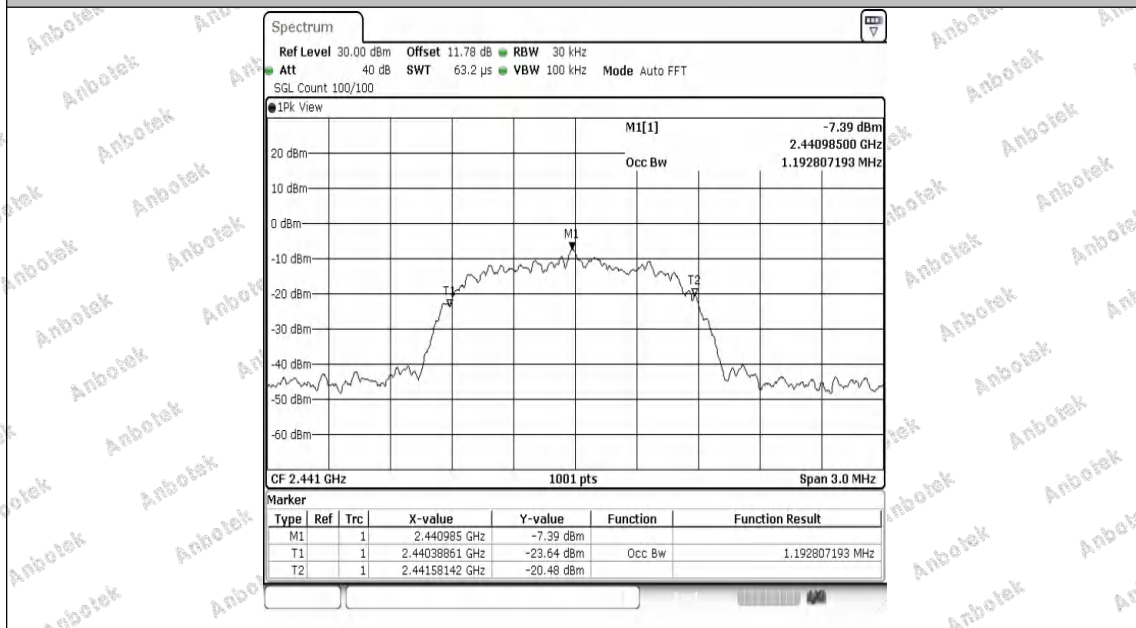
2DH5-Ant1-2402





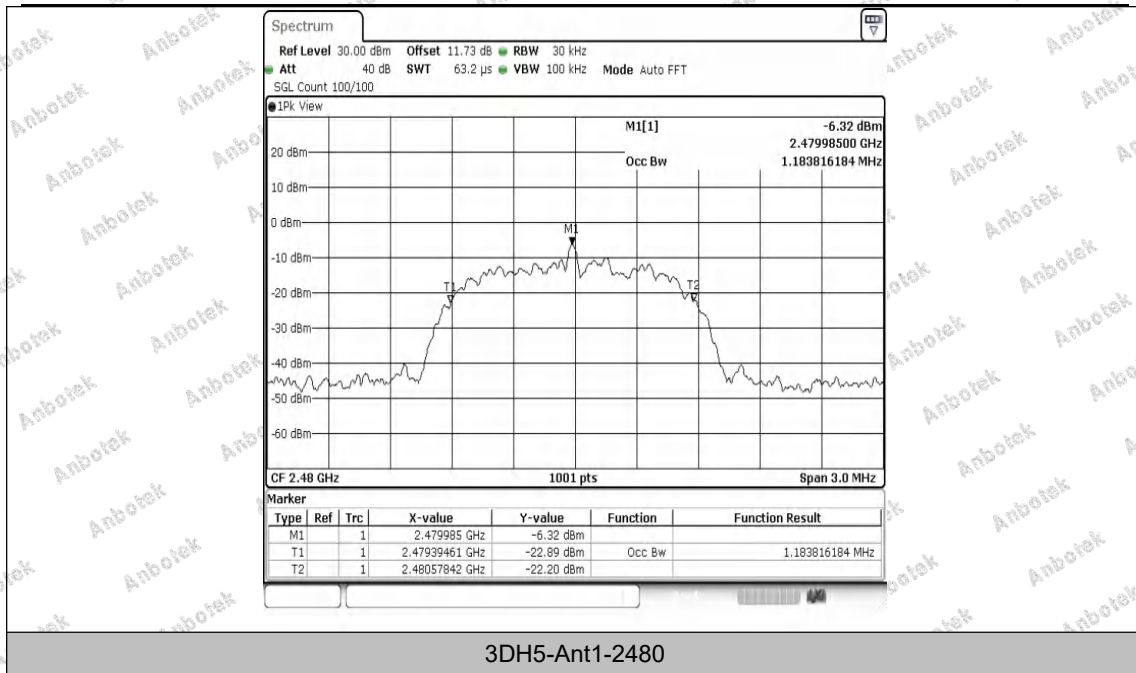


3DH5-Ant1-2402



3DH5-Ant1-2441



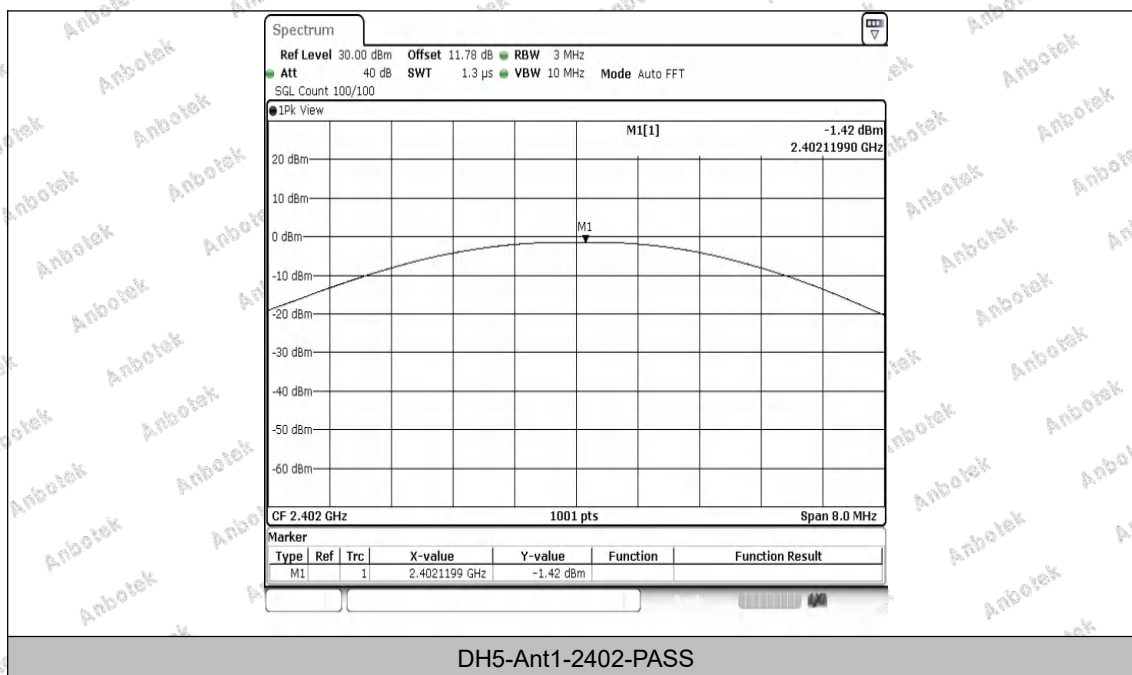


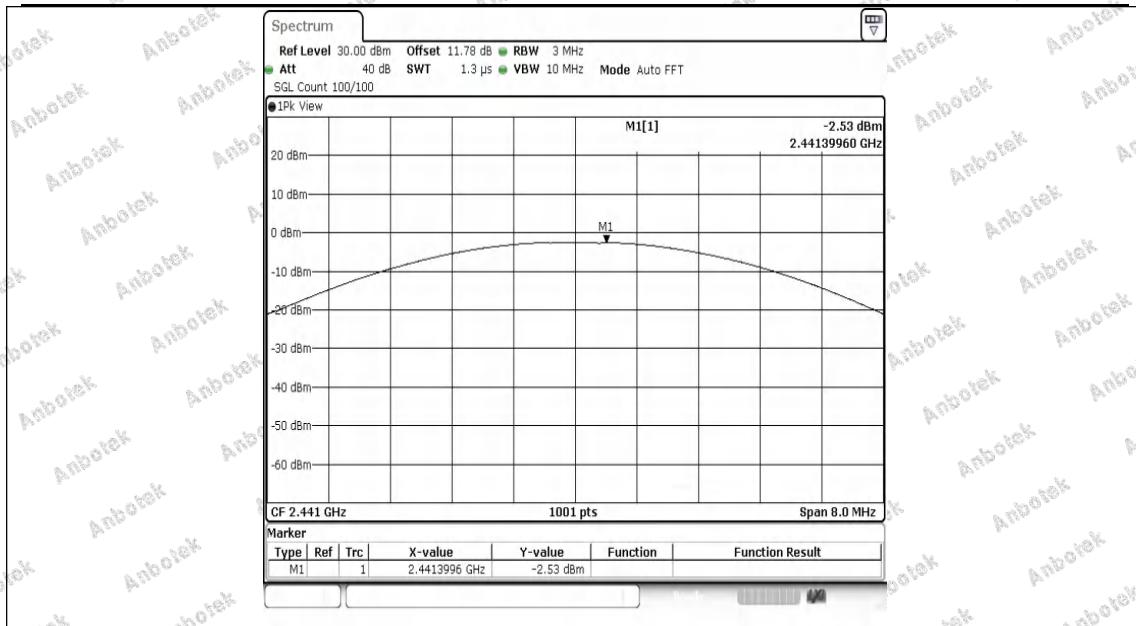
## Appendix C: Maximum conducted output power

### Test Result Peak

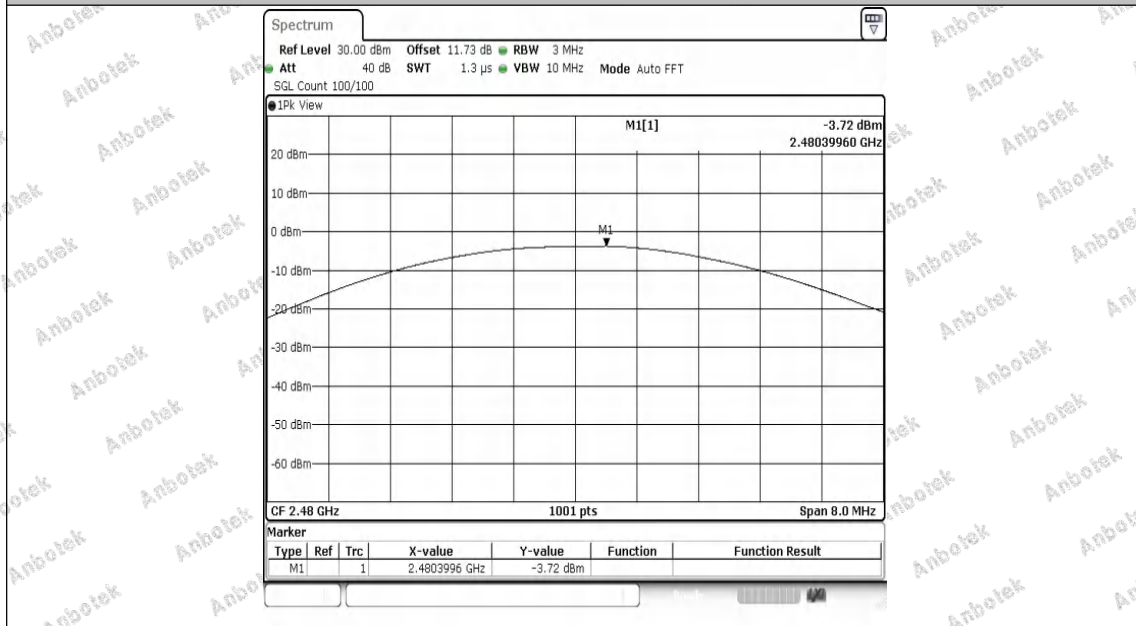
| Test Mode | Antenna | Frequency[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|---------------------------|----------------------|---------|
| DH5       | Ant1    | 2402           | -1.42                     | ≤30                  | PASS    |
| DH5       | Ant1    | 2441           | -2.53                     | ≤30                  | PASS    |
| DH5       | Ant1    | 2480           | -3.72                     | ≤30                  | PASS    |
| 2DH5      | Ant1    | 2402           | 0.47                      | ≤30                  | PASS    |
| 2DH5      | Ant1    | 2441           | -1.21                     | ≤30                  | PASS    |
| 2DH5      | Ant1    | 2480           | -2.03                     | ≤30                  | PASS    |
| 3DH5      | Ant1    | 2402           | 0.85                      | ≤30                  | PASS    |
| 3DH5      | Ant1    | 2441           | -0.20                     | ≤30                  | PASS    |
| 3DH5      | Ant1    | 2480           | -1.82                     | ≤30                  | PASS    |

### Test Graphs



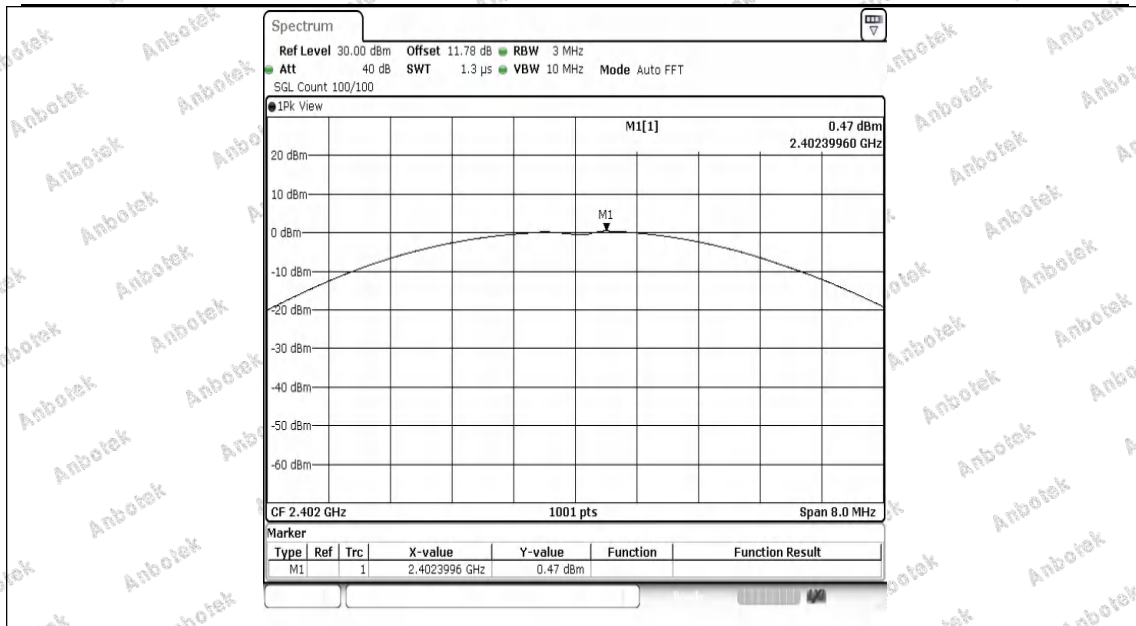


DH5-Ant1-2441-PASS

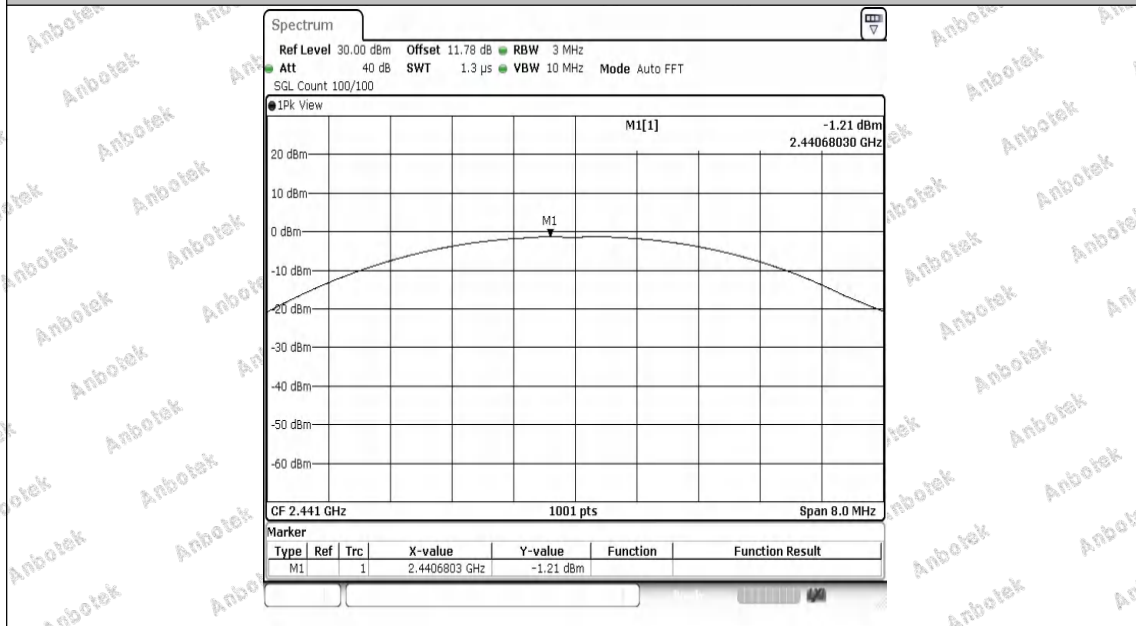


DH5-Ant1-2480-PASS



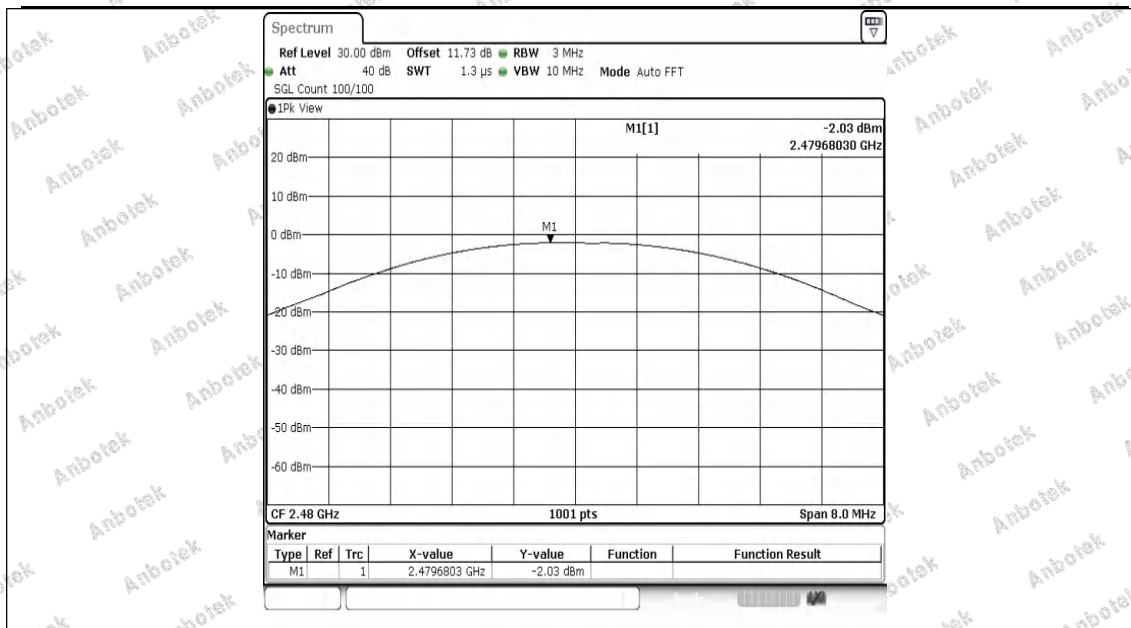


2DH5-Ant1-2402-PASS

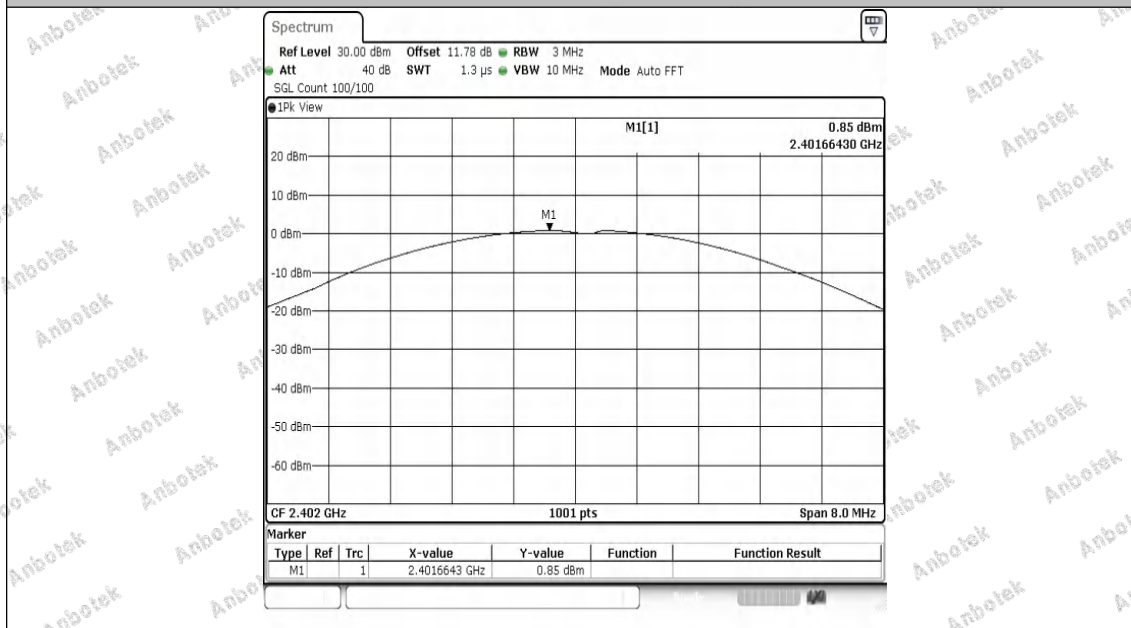


2DH5-Ant1-2441-PASS





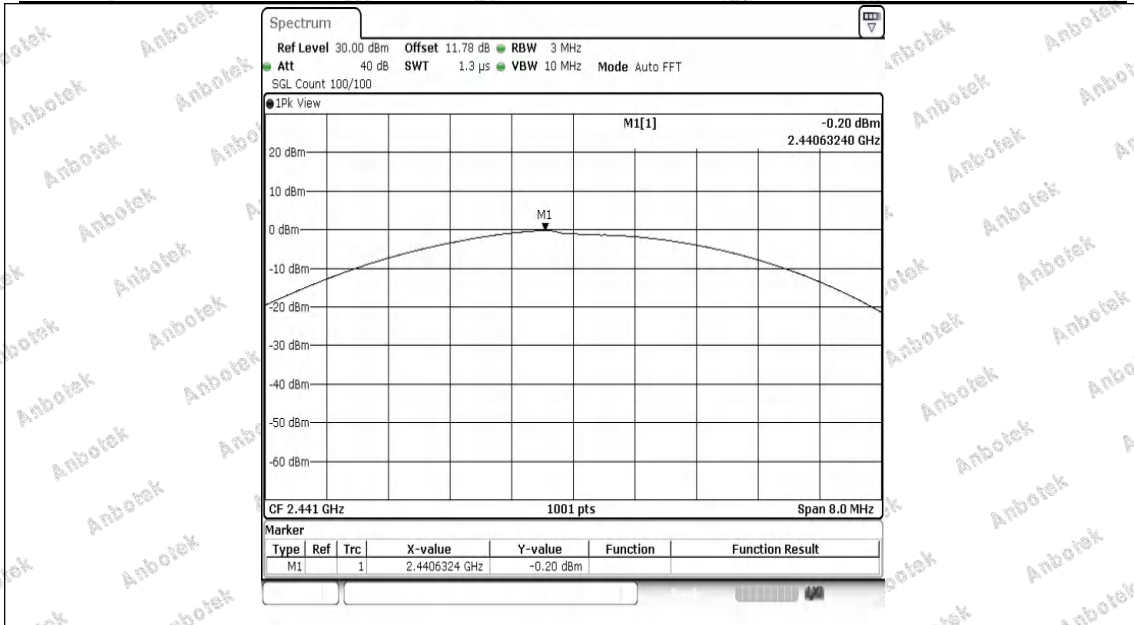
2DH5-Ant1-2480-PASS



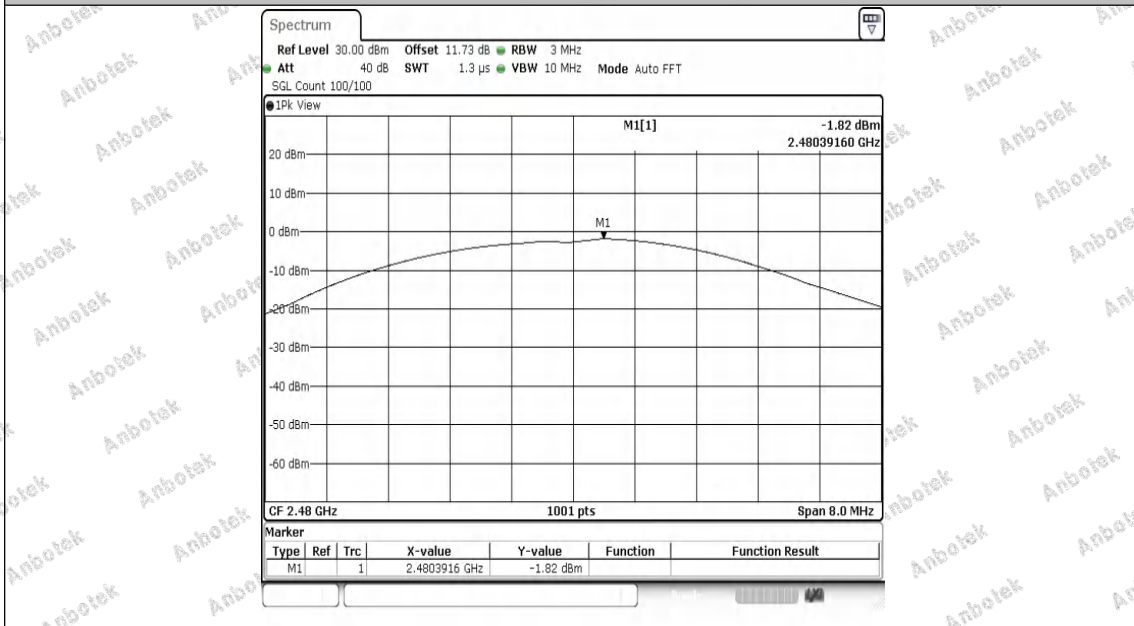
3DH5-Ant1-2402-PASS







3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS



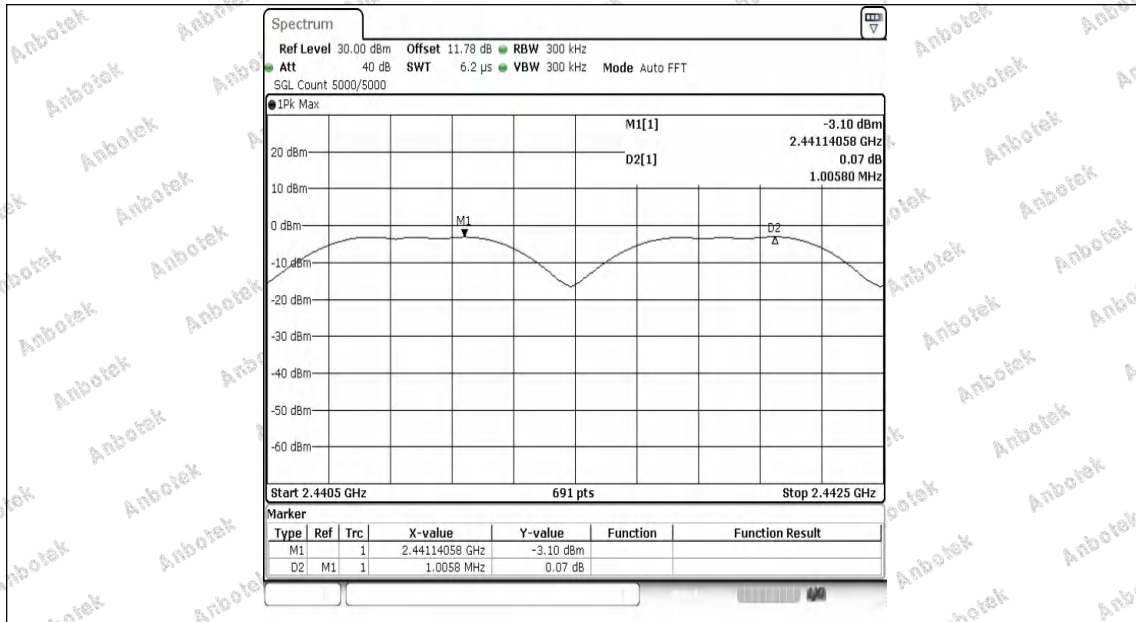
## Appendix D: Carrier frequency separation

### Test Result

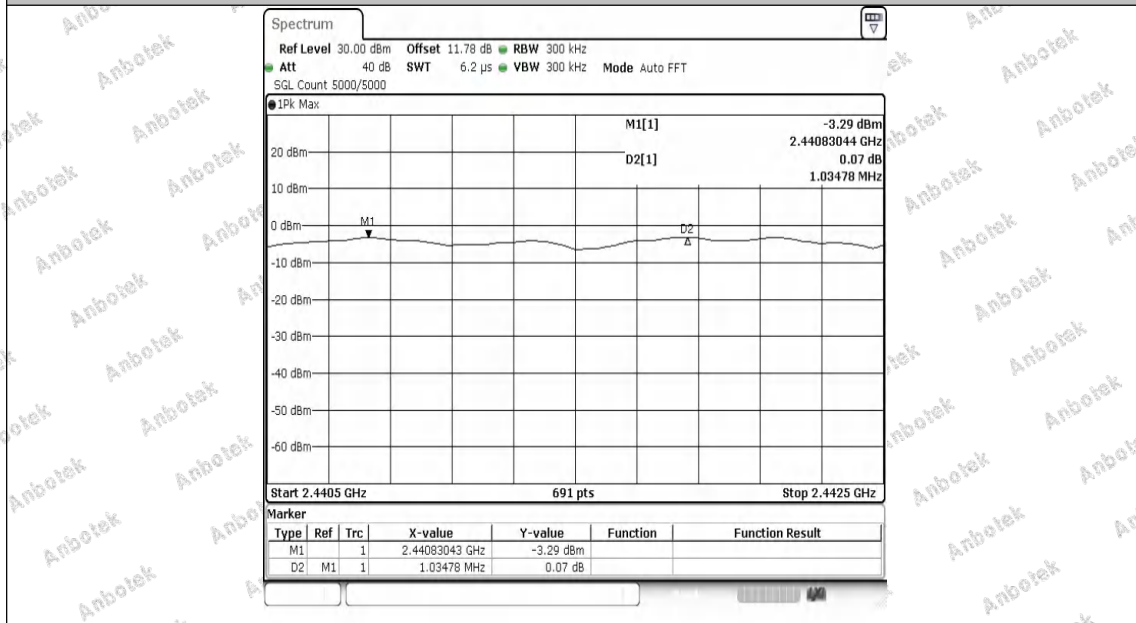
| TestMode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| DH5      | Ant1    | Hop            | 1.006       | ≥0.950     | PASS    |
| 2DH5     | Ant1    | Hop            | 1.035       | ≥0.900     | PASS    |
| 3DH5     | Ant1    | Hop            | 1.157       | ≥0.893     | PASS    |



## Test Graphs

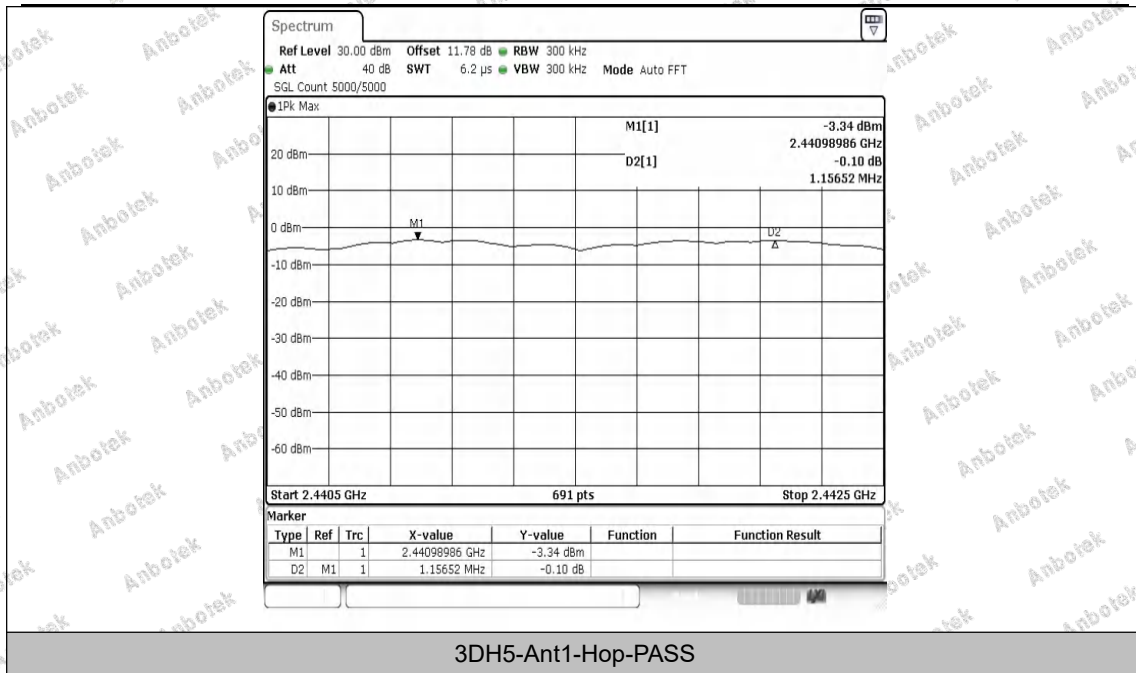


DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS



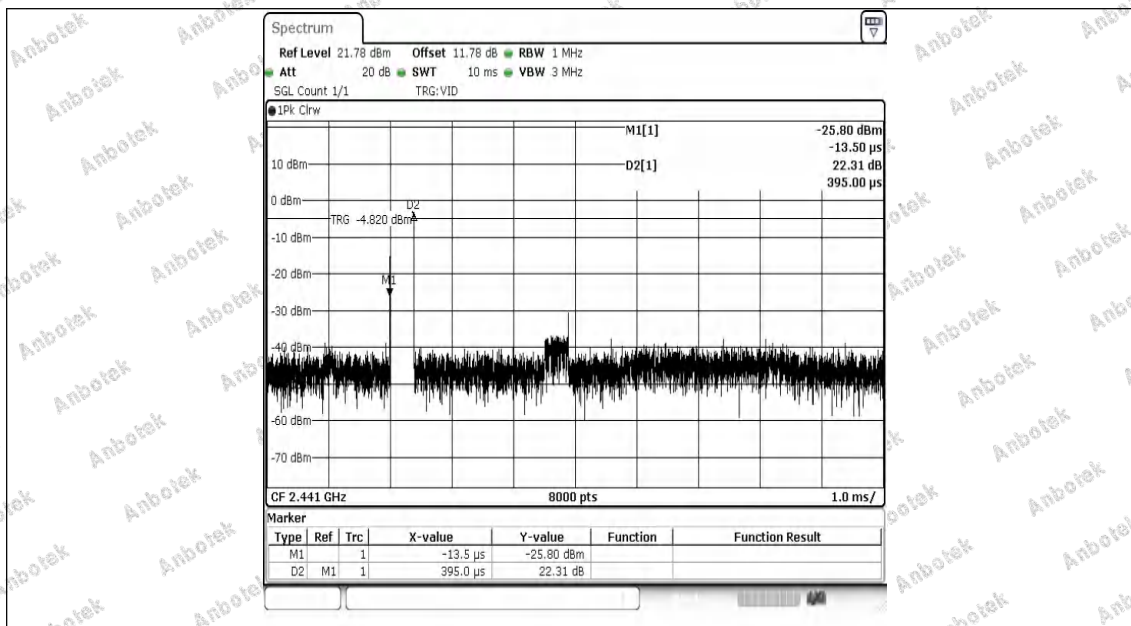
## Appendix E: Time of occupancy

### Test Result

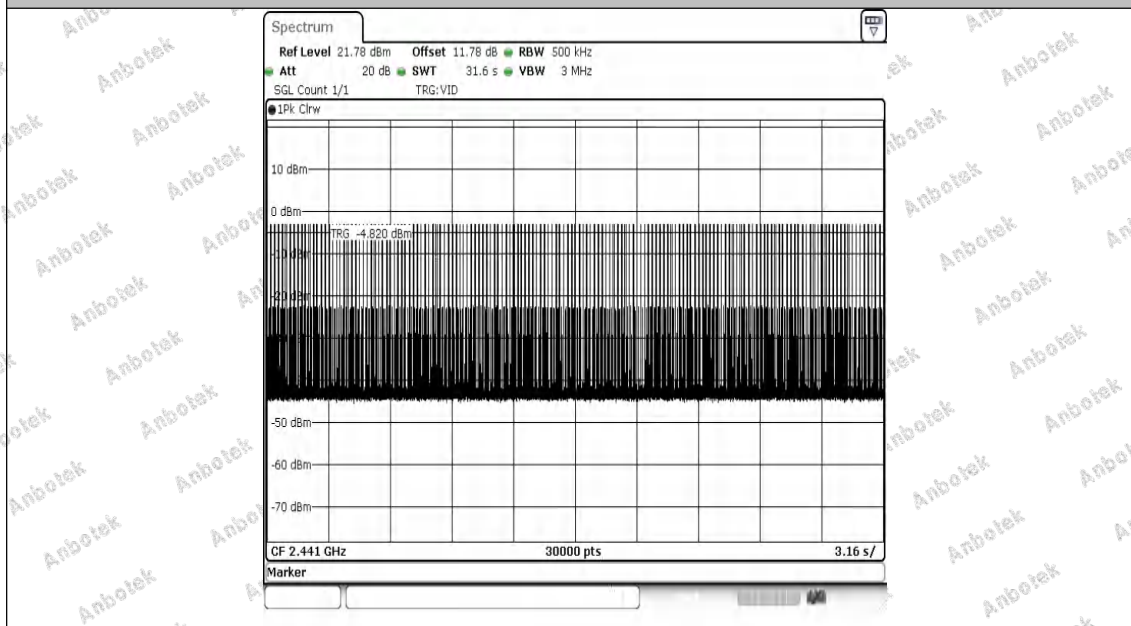
| TestMode | Antenna | Frequency[MHz] | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|---------|----------------|--------------------|--------------------|-----------|----------|---------|
| DH1      | Ant1    | Hop            | 0.395              | 321                | 0.127     | ≤0.4     | PASS    |
| DH3      | Ant1    | Hop            | 1.651              | 166                | 0.274     | ≤0.4     | PASS    |
| DH5      | Ant1    | Hop            | 2.899              | 97                 | 0.281     | ≤0.4     | PASS    |
| 2DH1     | Ant1    | Hop            | 0.405              | 320                | 0.13      | ≤0.4     | PASS    |
| 2DH3     | Ant1    | Hop            | 1.656              | 156                | 0.258     | ≤0.4     | PASS    |
| 2DH5     | Ant1    | Hop            | 2.904              | 101                | 0.293     | ≤0.4     | PASS    |
| 3DH1     | Ant1    | Hop            | 0.406              | 319                | 0.13      | ≤0.4     | PASS    |
| 3DH3     | Ant1    | Hop            | 1.656              | 157                | 0.26      | ≤0.4     | PASS    |
| 3DH5     | Ant1    | Hop            | 2.908              | 115                | 0.334     | ≤0.4     | PASS    |

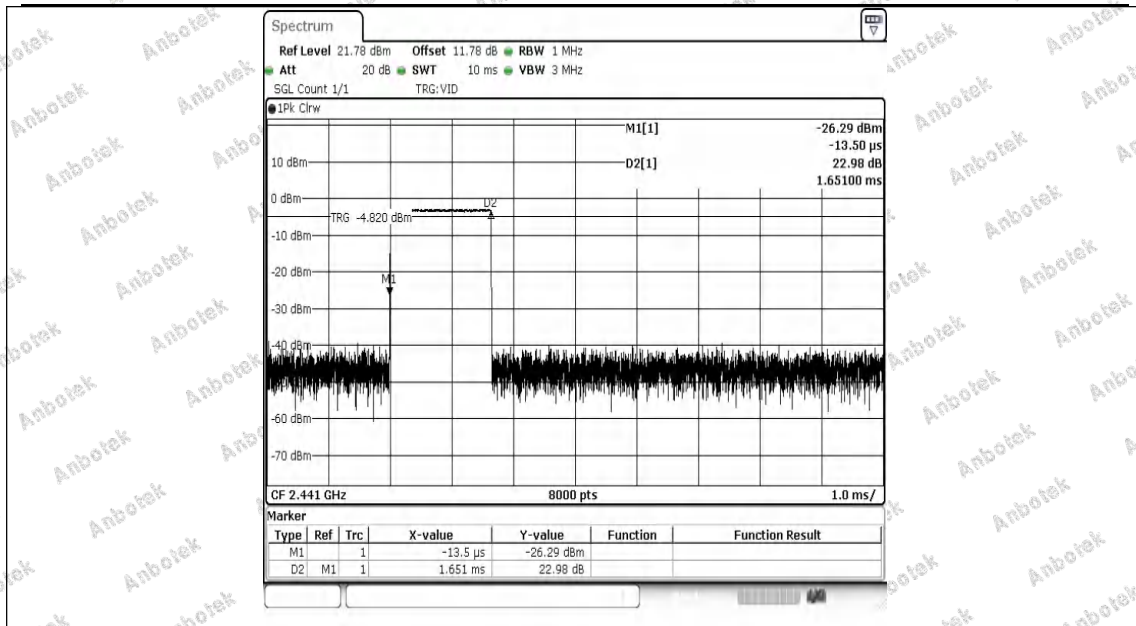


## Test Graphs

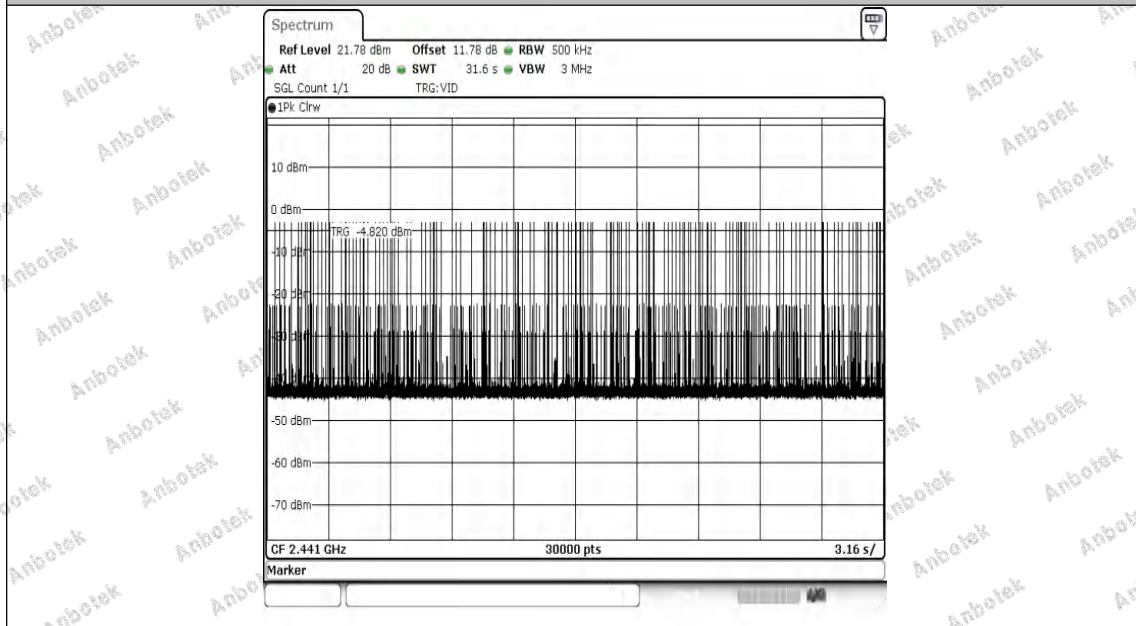


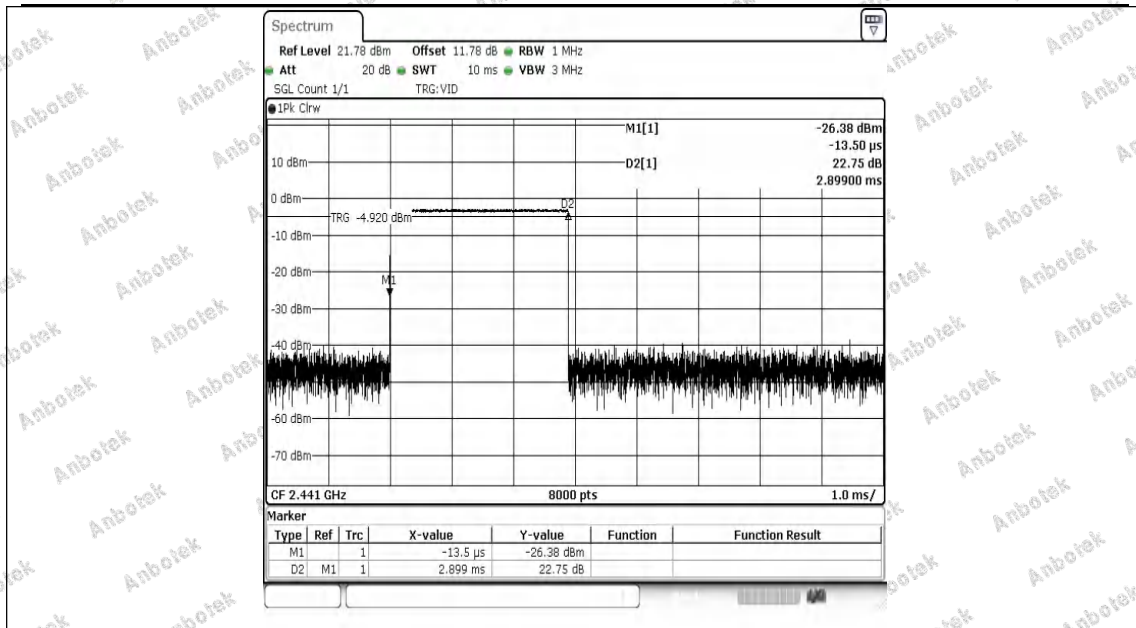
### DH1-Ant1-Hop-PASS



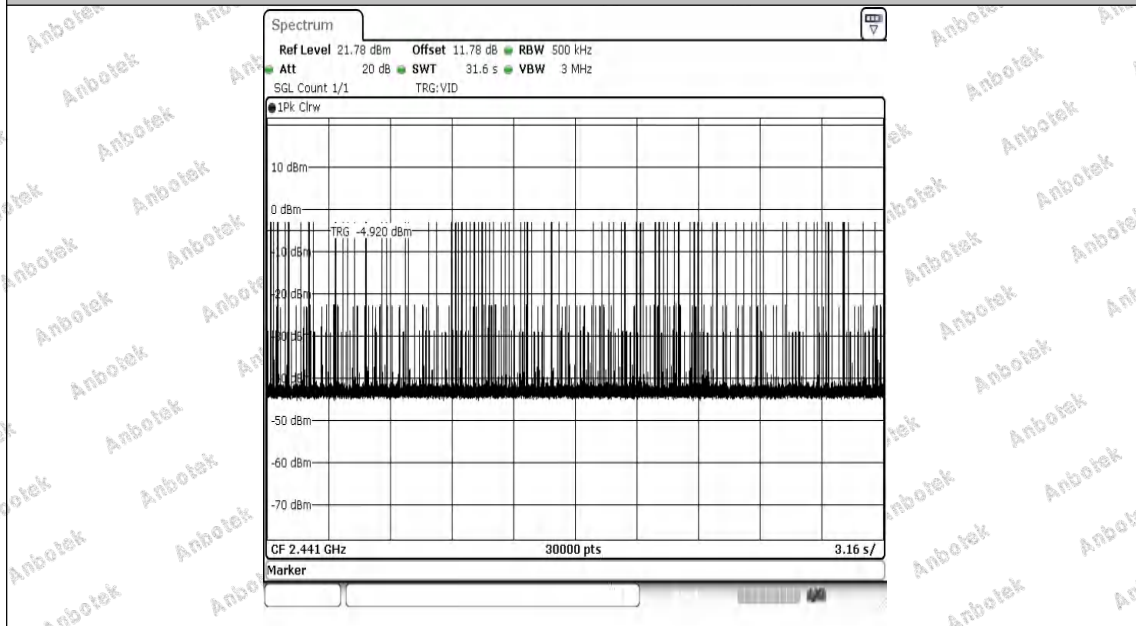


### DH3-Ant1-Hop-PASS

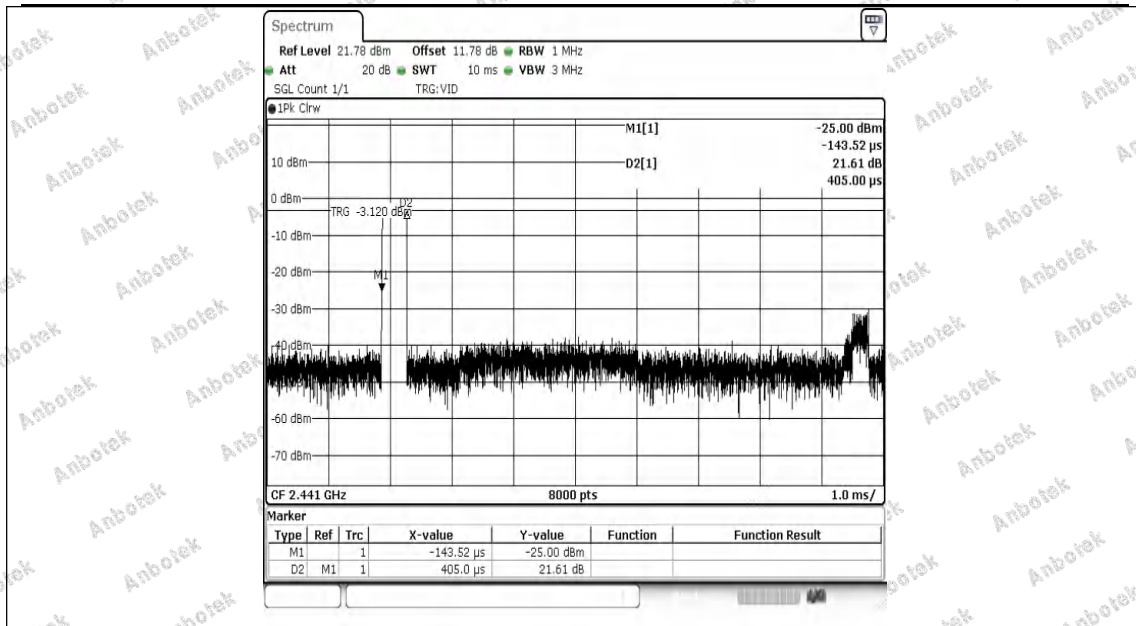




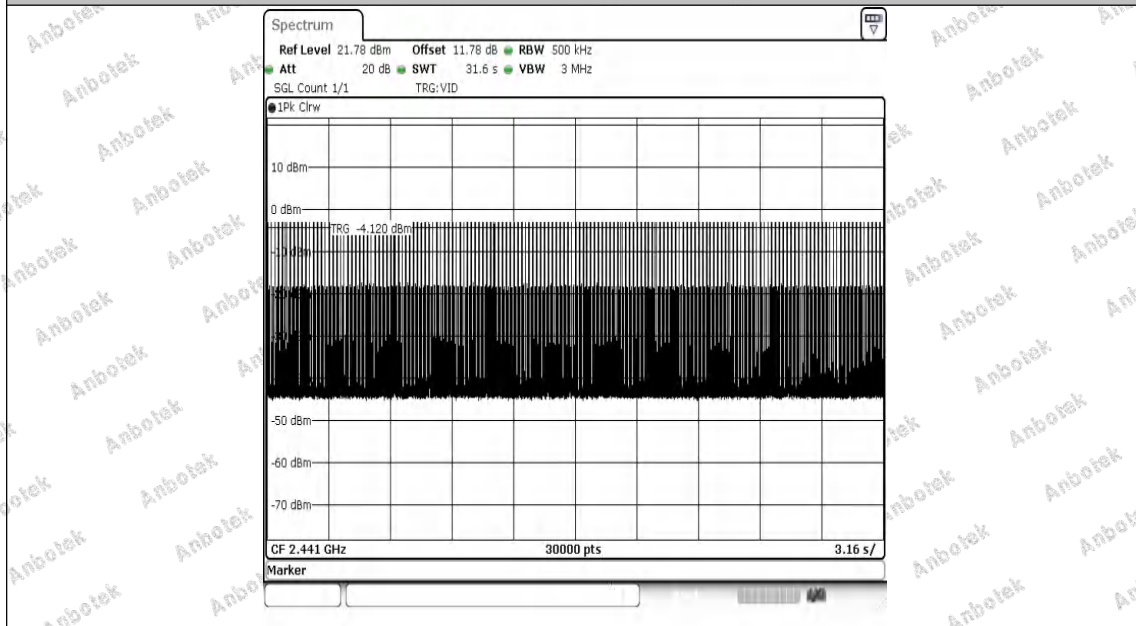
### DH5-Ant1-Hop-PASS

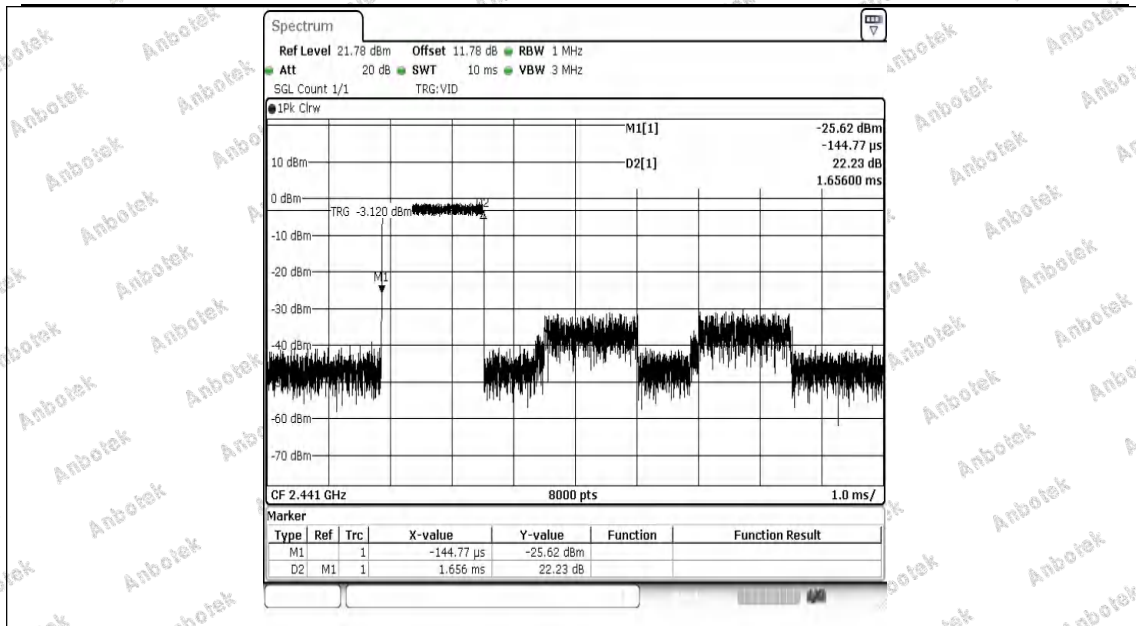




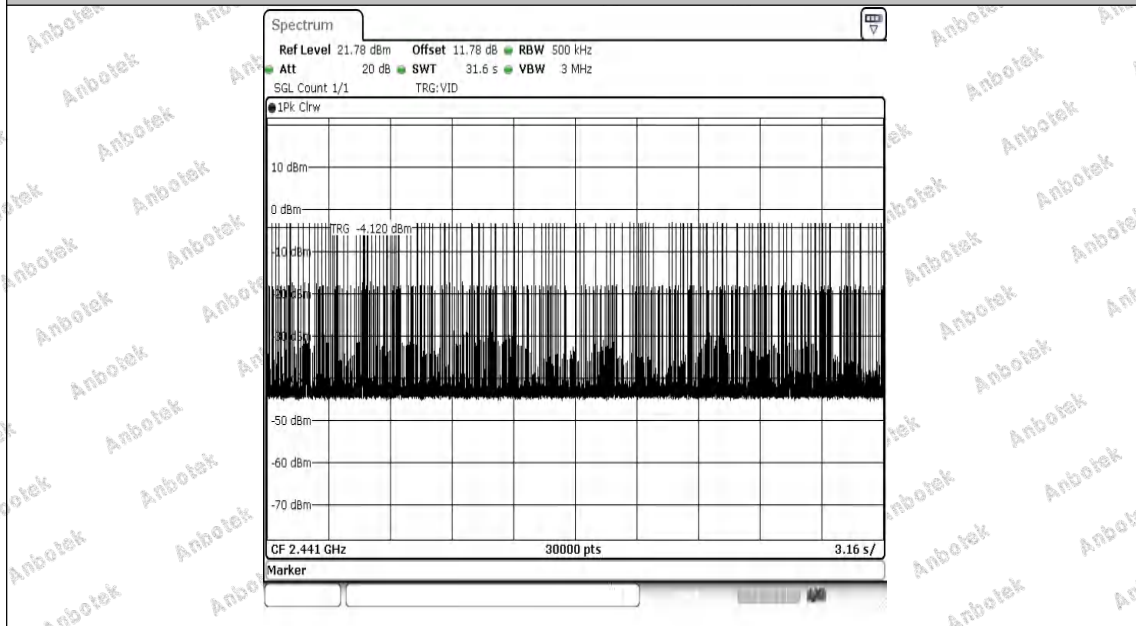


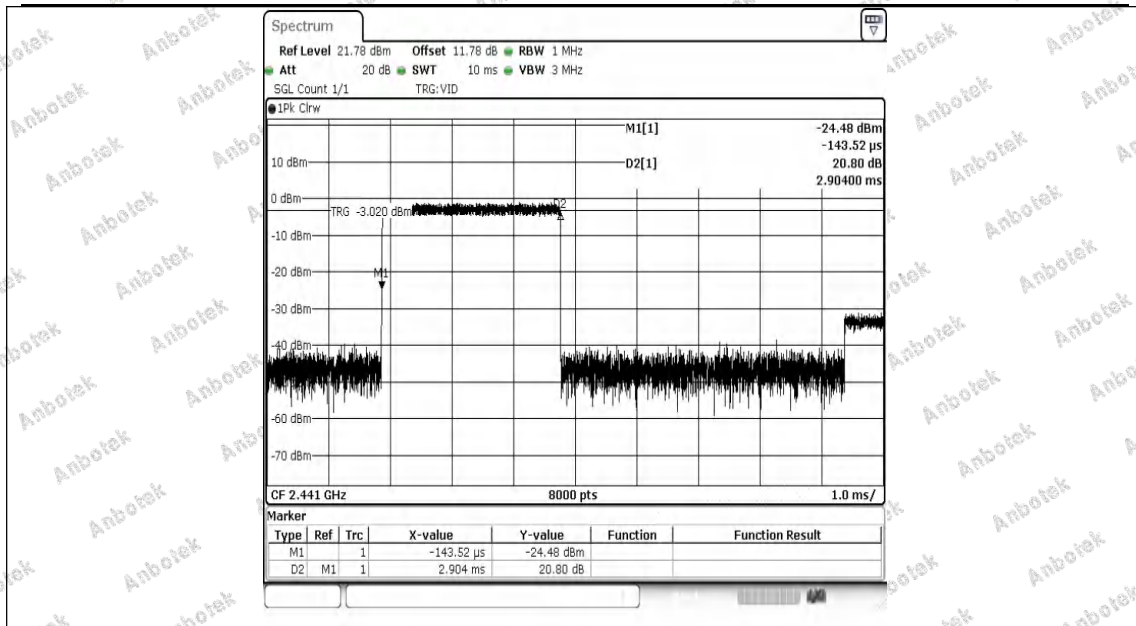
## 2DH1-Ant1-Hop-PASS



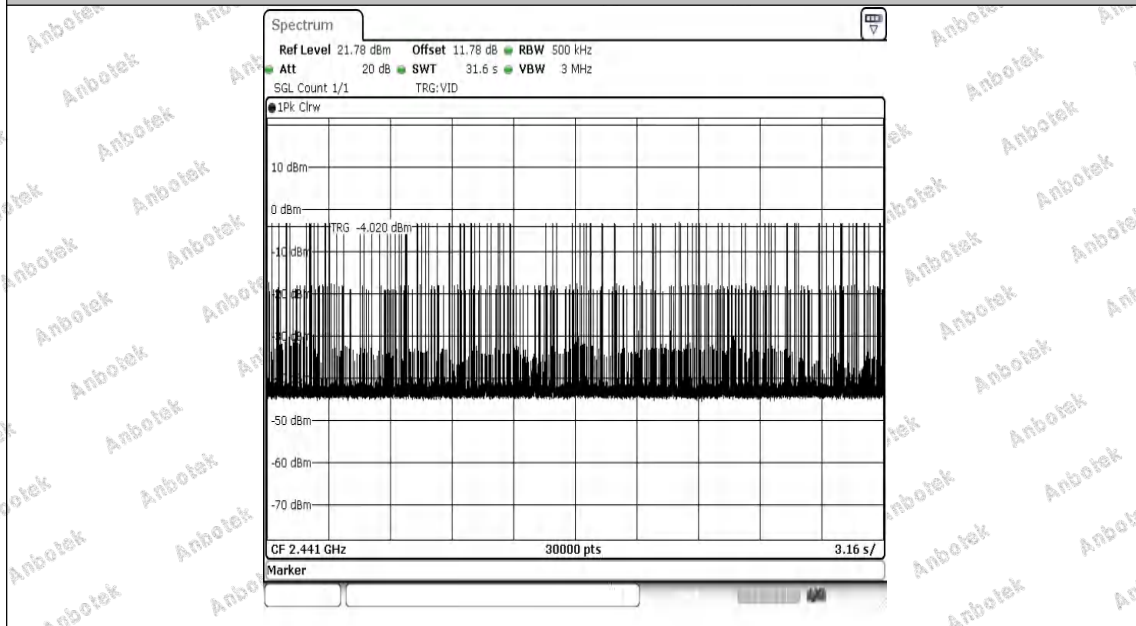


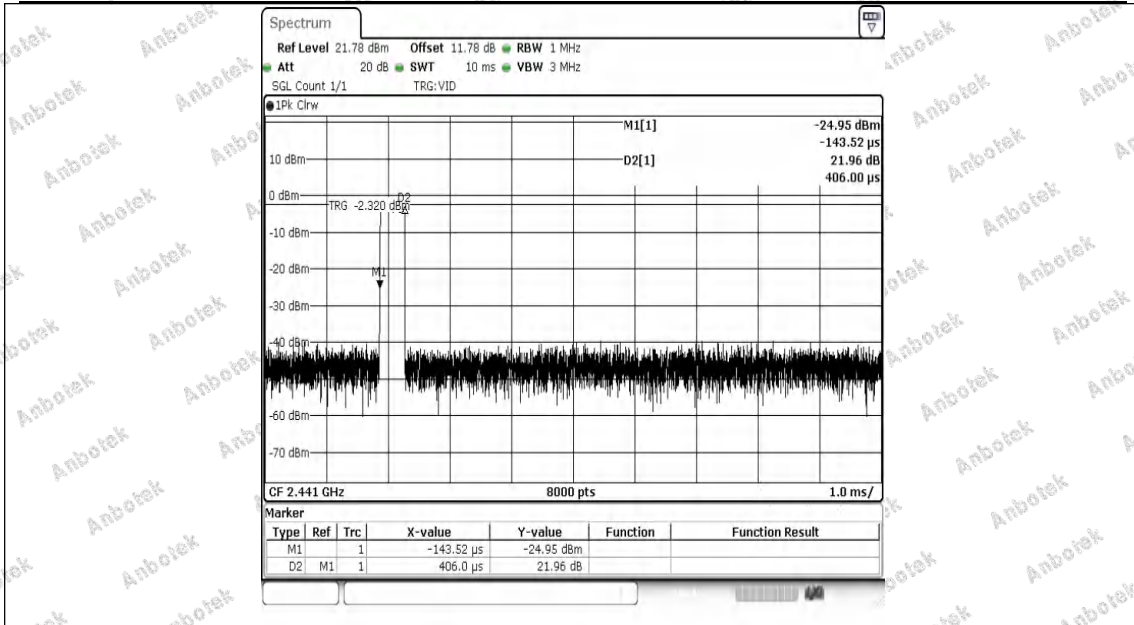
### 2DH3-Ant1-Hop-PASS



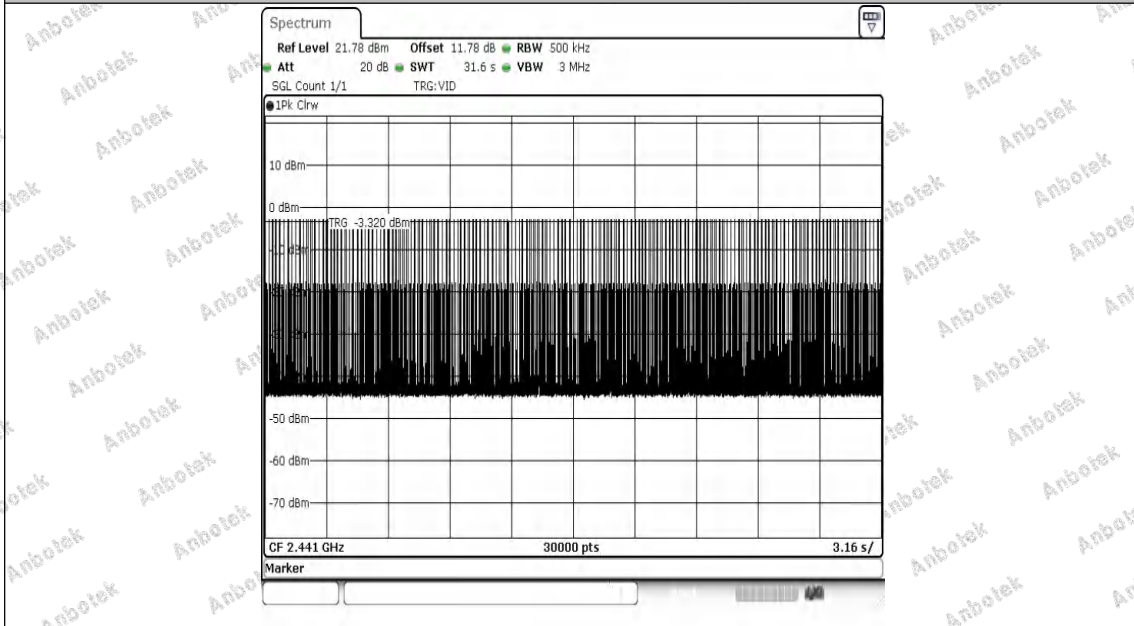


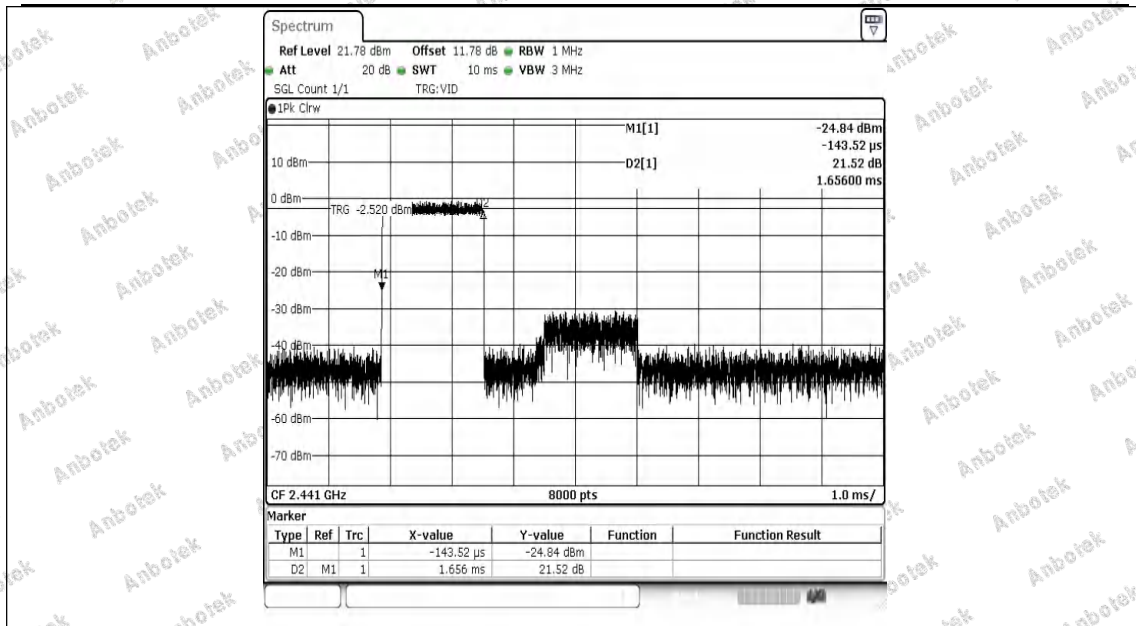
## 2DH5-Ant1-Hop-PASS



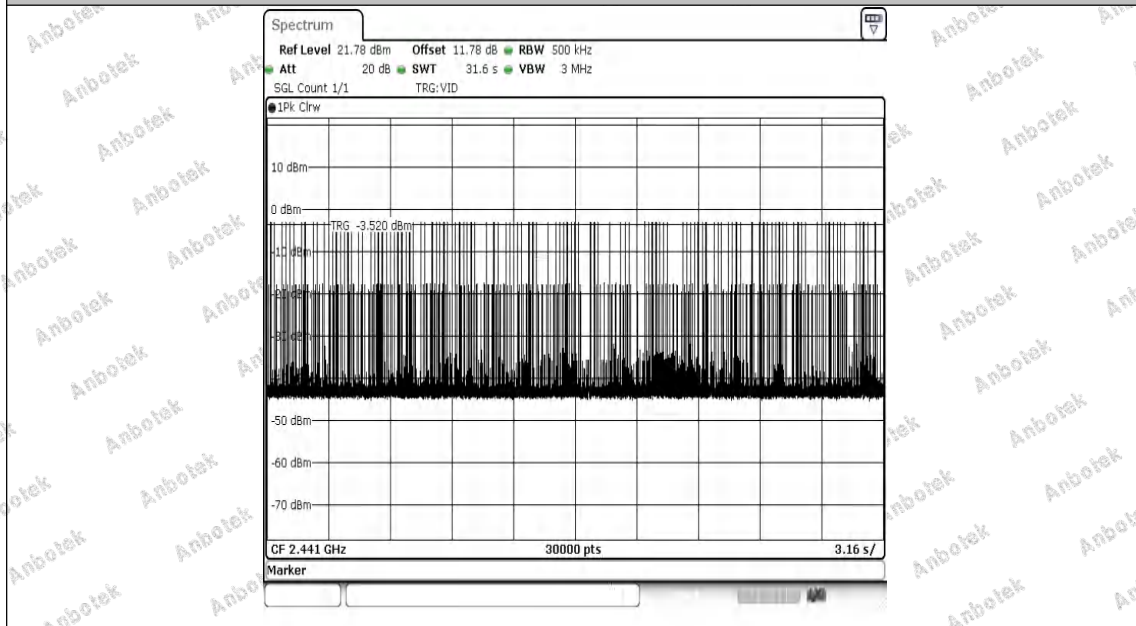


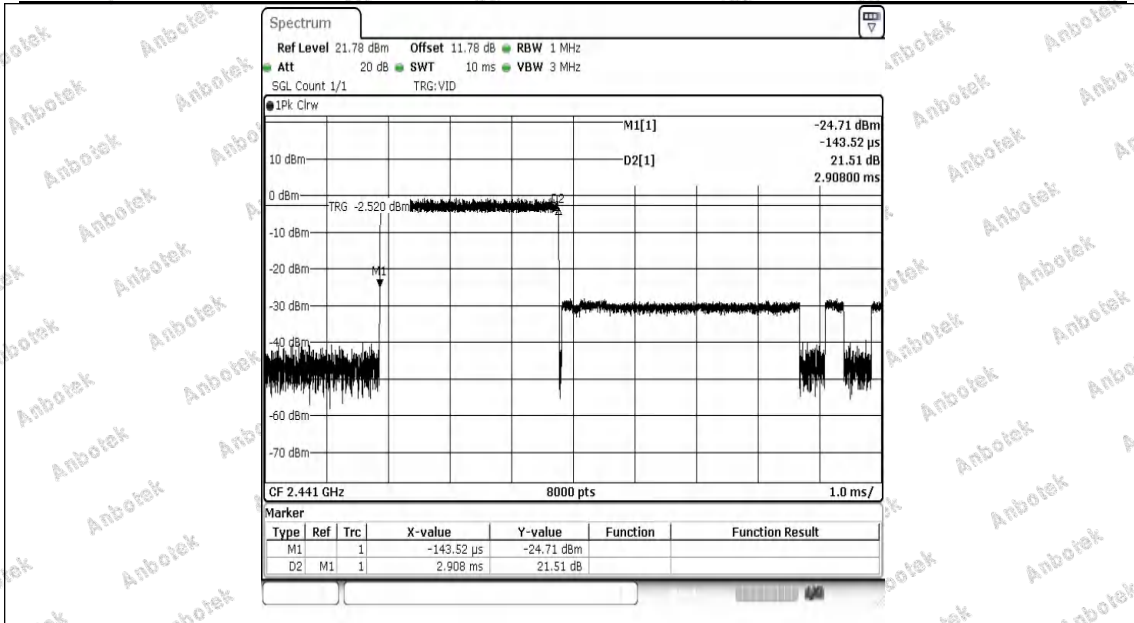
### 3DH1-Ant1-Hop-PASS



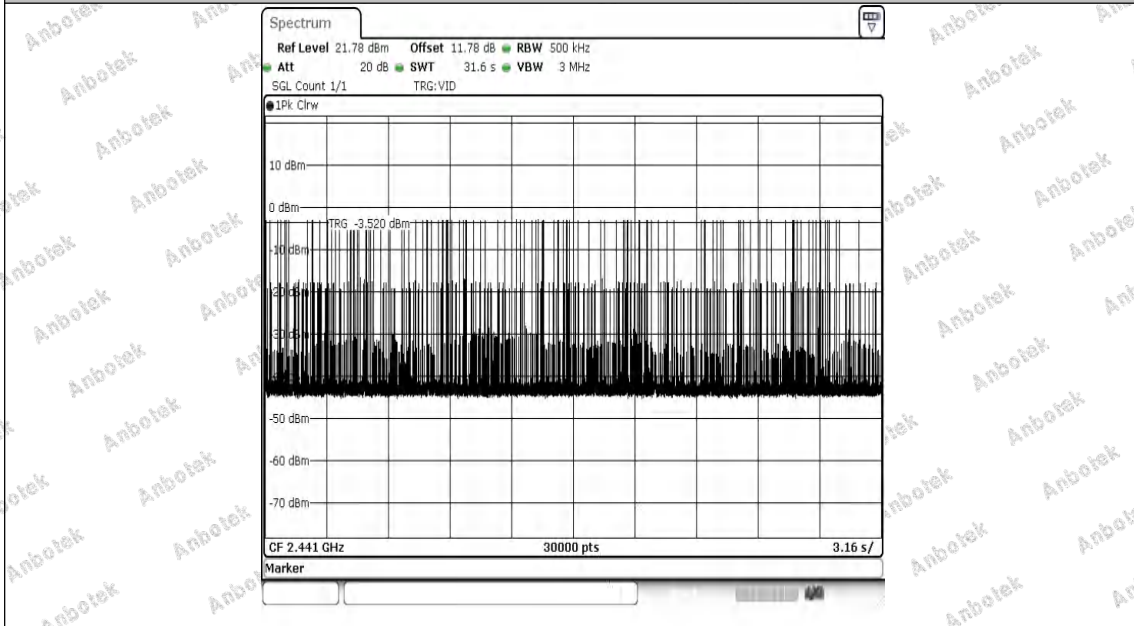


### 3DH3-Ant1-Hop-PASS





### 3DH5-Ant1-Hop-PASS



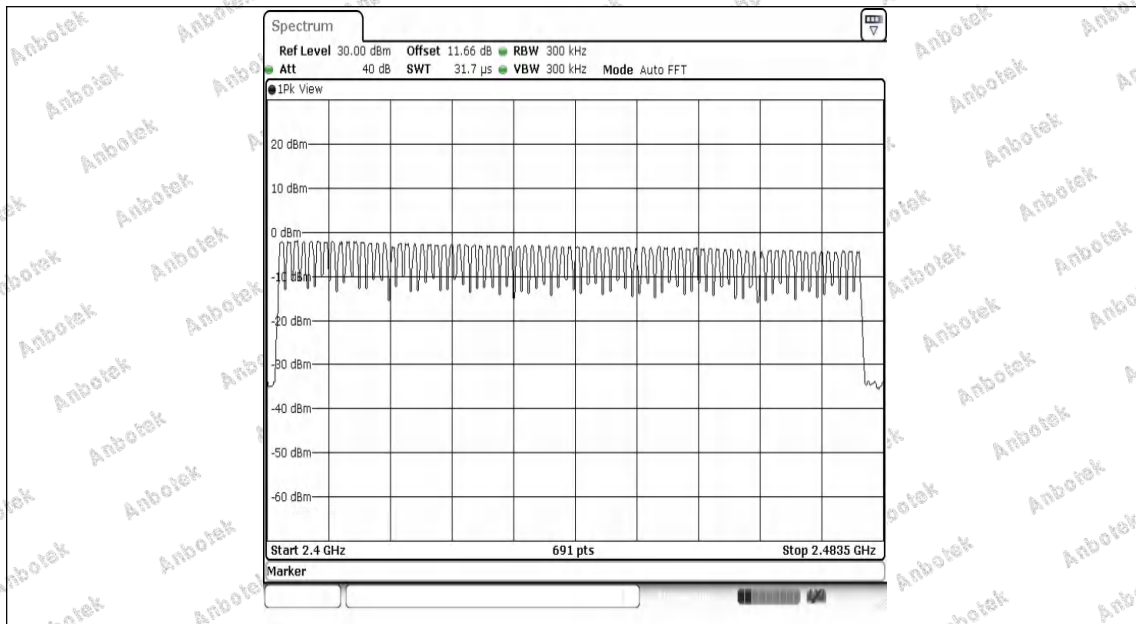
## Appendix F: Number of hopping channels

### Test Result

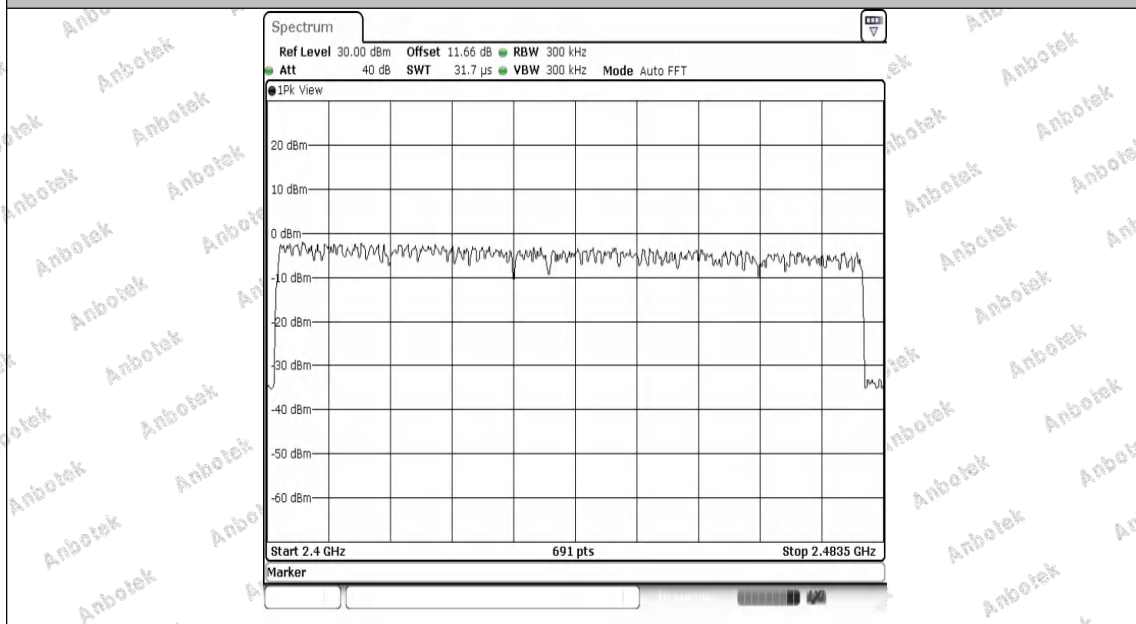
| TestMode | Antenna | Frequency[MHz] | Result[Num] | Limit[Num] | Verdict |
|----------|---------|----------------|-------------|------------|---------|
| DH5      | Ant1    | Hop            | 79          | ≥15        | PASS    |
| 2DH5     | Ant1    | Hop            | 79          | ≥15        | PASS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



## Test Graphs



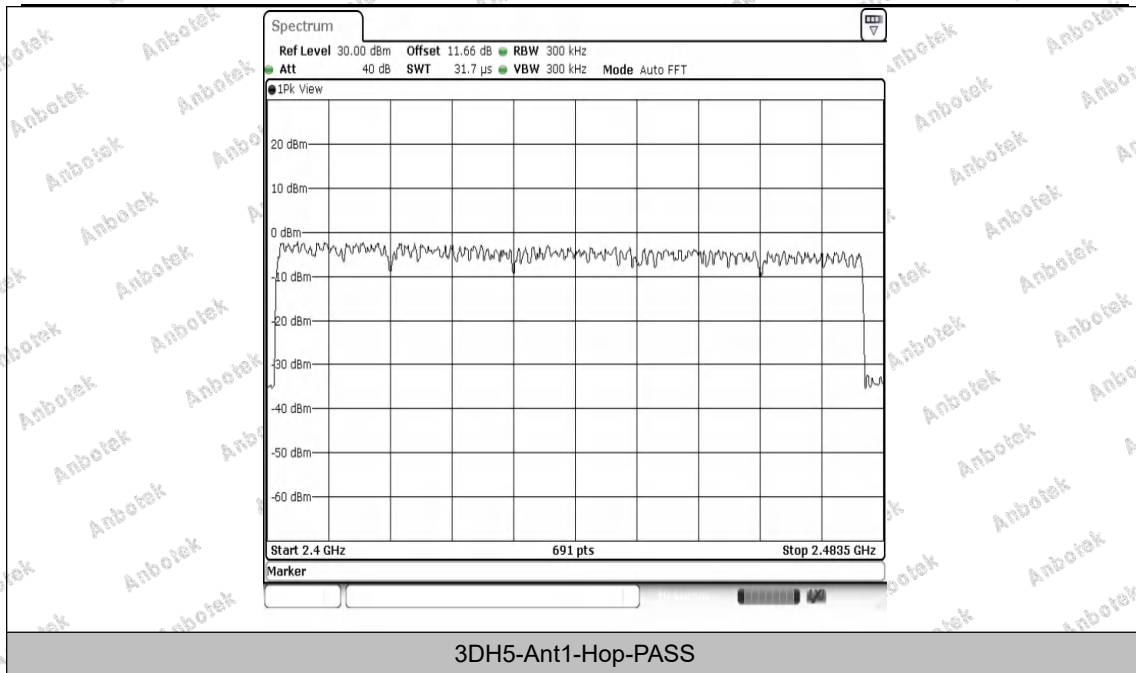
DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS







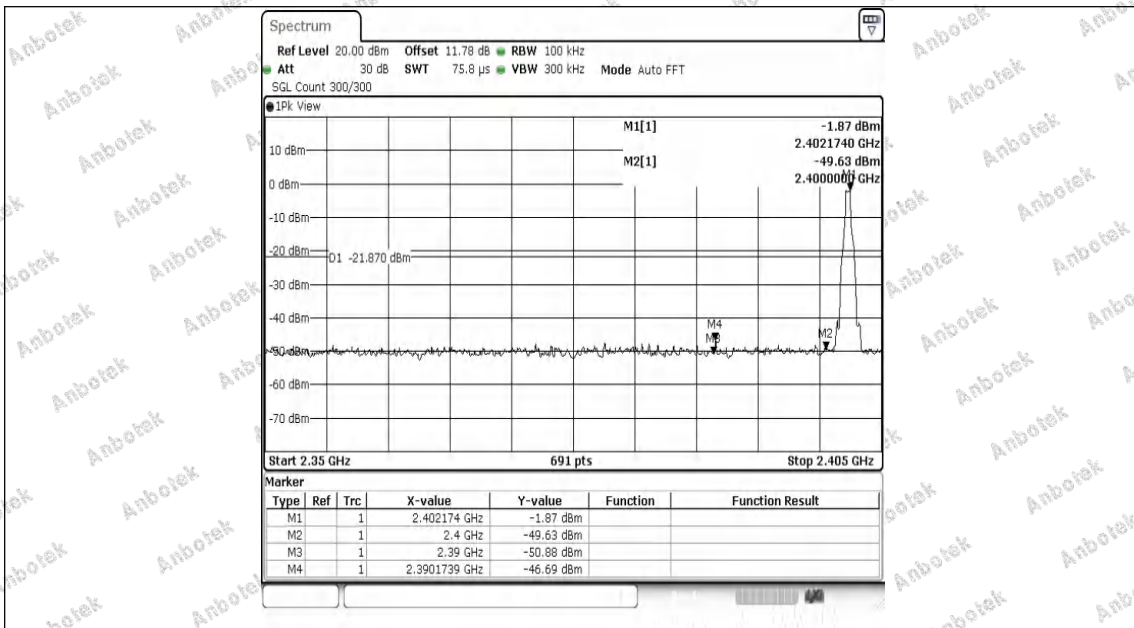
## Appendix G: Band edge measurements

### Test Result

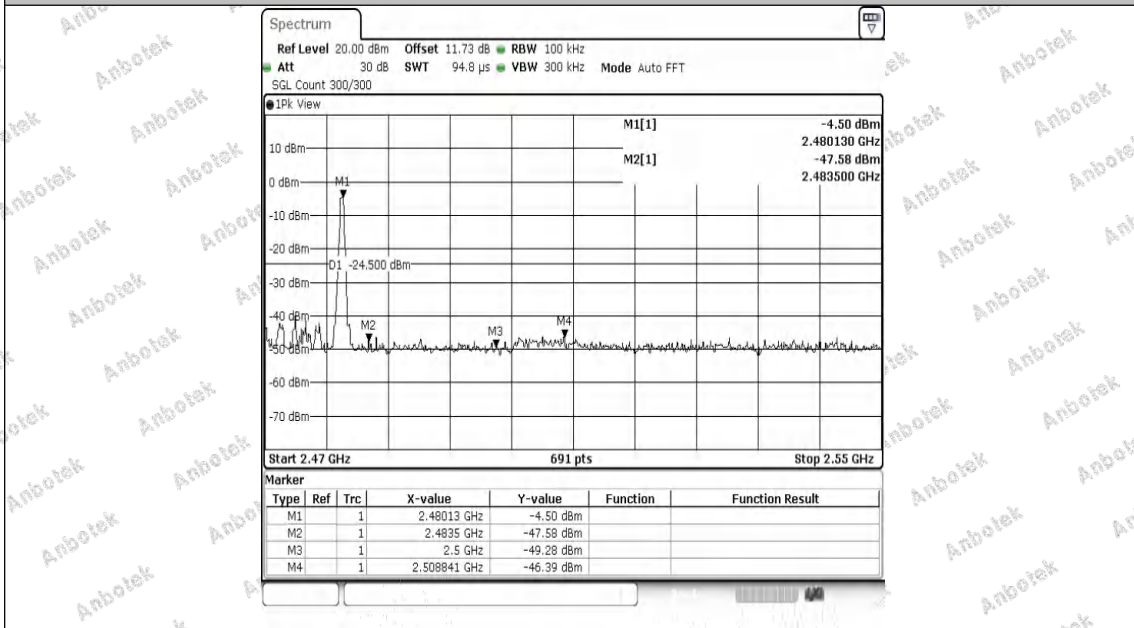
| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | Low    | 2402           | -1.87          | -46.69       | ≤-21.87     | PASS    |
| DH5      | Ant1    | High   | 2480           | -4.50          | -46.39       | ≤-24.5      | PASS    |
| DH5      | Ant1    | Low    | Hop_2402       | -2.81          | -47.38       | ≤-22.81     | PASS    |
| DH5      | Ant1    | High   | Hop_2480       | -4.75          | -46.34       | ≤-24.75     | PASS    |
| 2DH5     | Ant1    | Low    | 2402           | -2.61          | -47.81       | ≤-22.61     | PASS    |
| 2DH5     | Ant1    | High   | 2480           | -4.47          | -45.87       | ≤-24.47     | PASS    |
| 2DH5     | Ant1    | Low    | Hop_2402       | -3.25          | -47.15       | ≤-23.25     | PASS    |
| 2DH5     | Ant1    | High   | Hop_2480       | -6.18          | -45.77       | ≤-26.18     | PASS    |
| 3DH5     | Ant1    | Low    | 2402           | -1.81          | -47.8        | ≤-21.81     | PASS    |
| 3DH5     | Ant1    | High   | 2480           | -4.21          | -45.99       | ≤-24.21     | PASS    |
| 3DH5     | Ant1    | Low    | Hop_2402       | -4.60          | -47.21       | ≤-24.6      | PASS    |
| 3DH5     | Ant1    | High   | Hop_2480       | -4.58          | -46.17       | ≤-24.58     | PASS    |



## Test Graphs

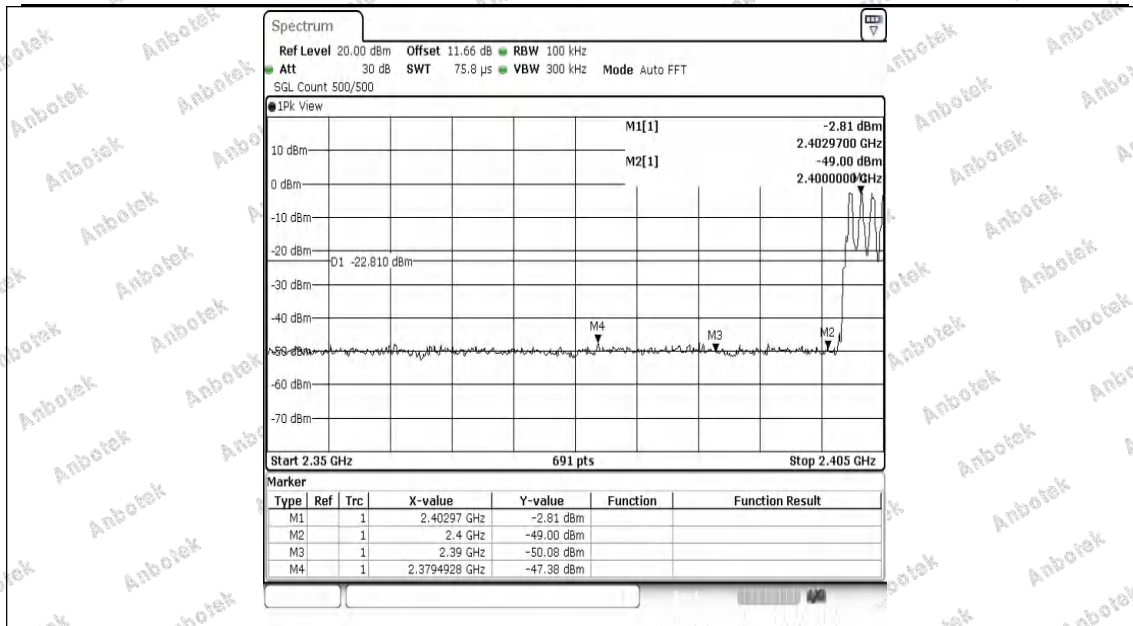


DH5-Ant1-2402-PASS

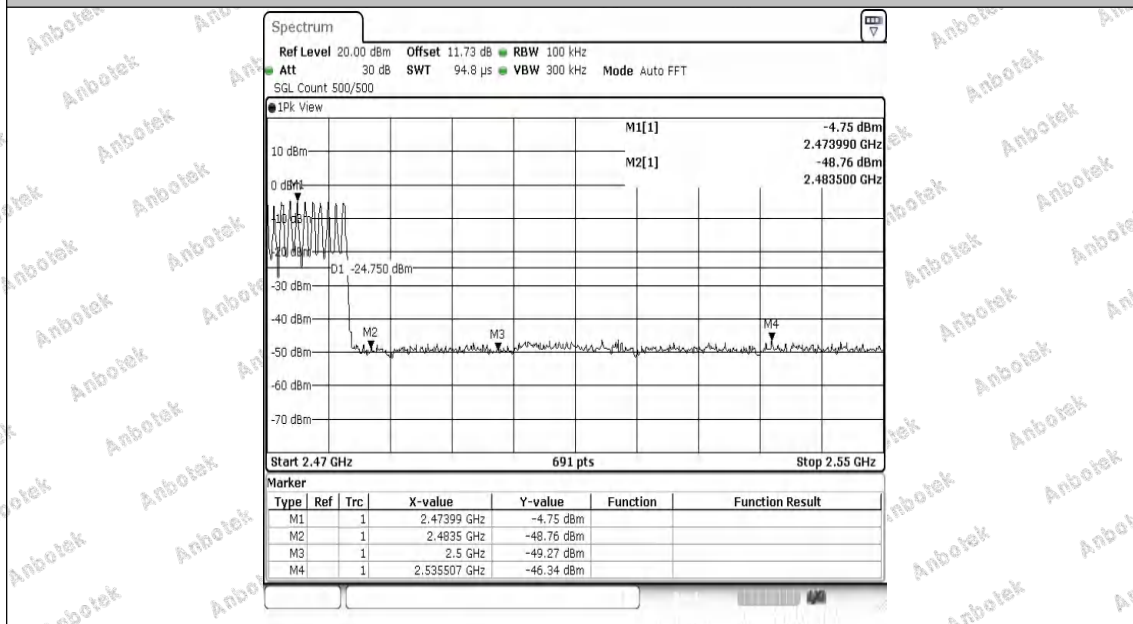


DH5-Ant1-2480-PASS



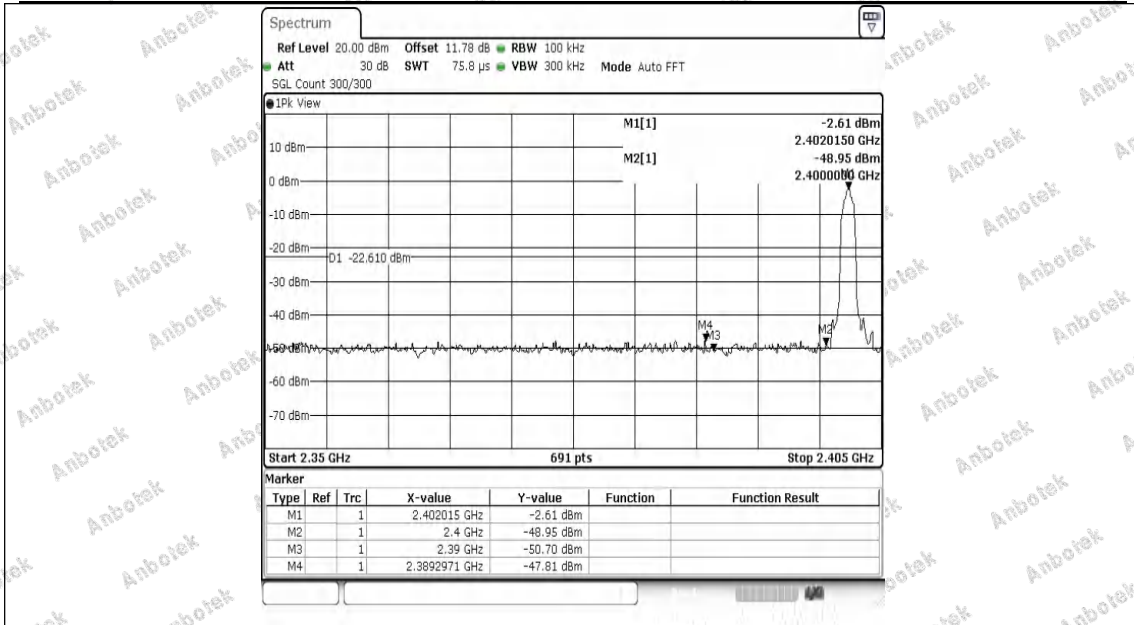


DH5-Ant1-Hop\_2402-PASS

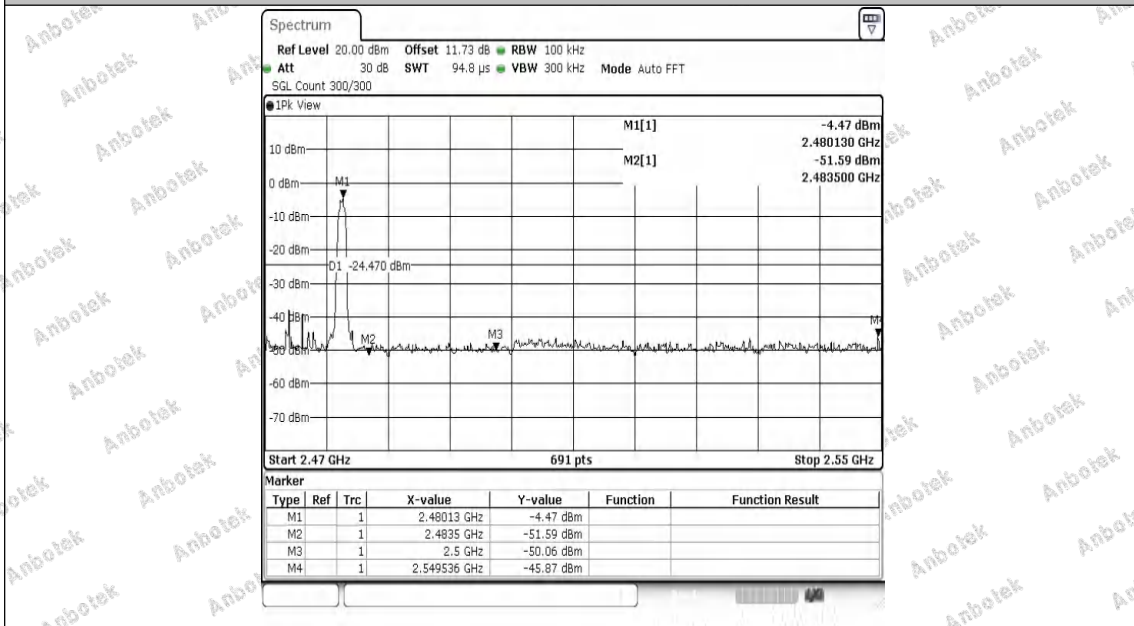


DH5-Ant1-Hop\_2480-PASS



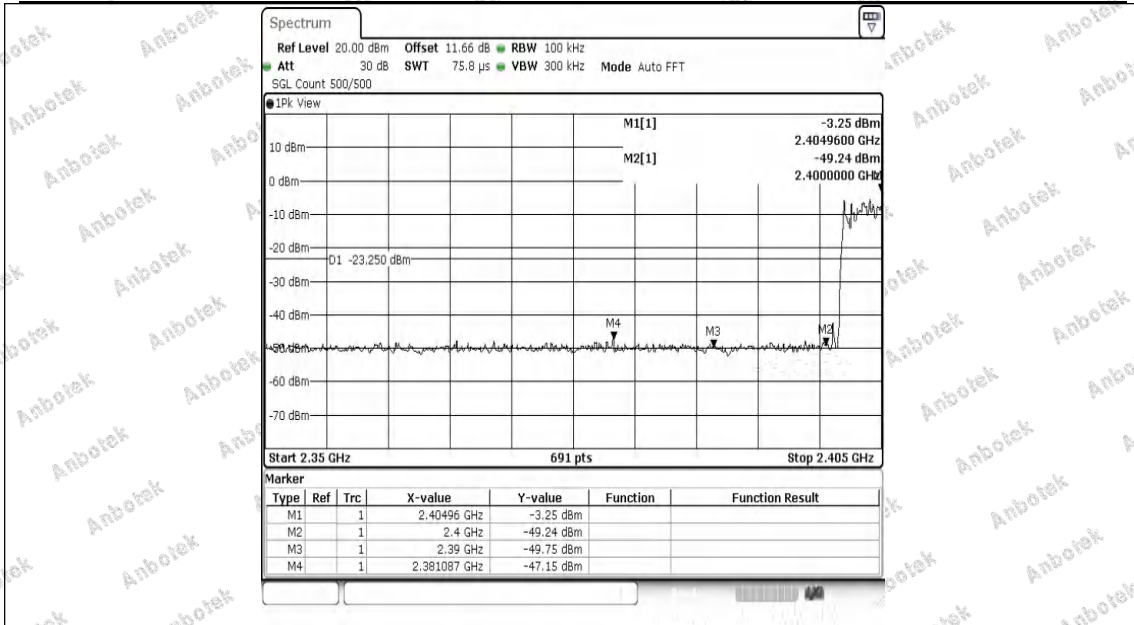


2DH5-Ant1-2402-PASS

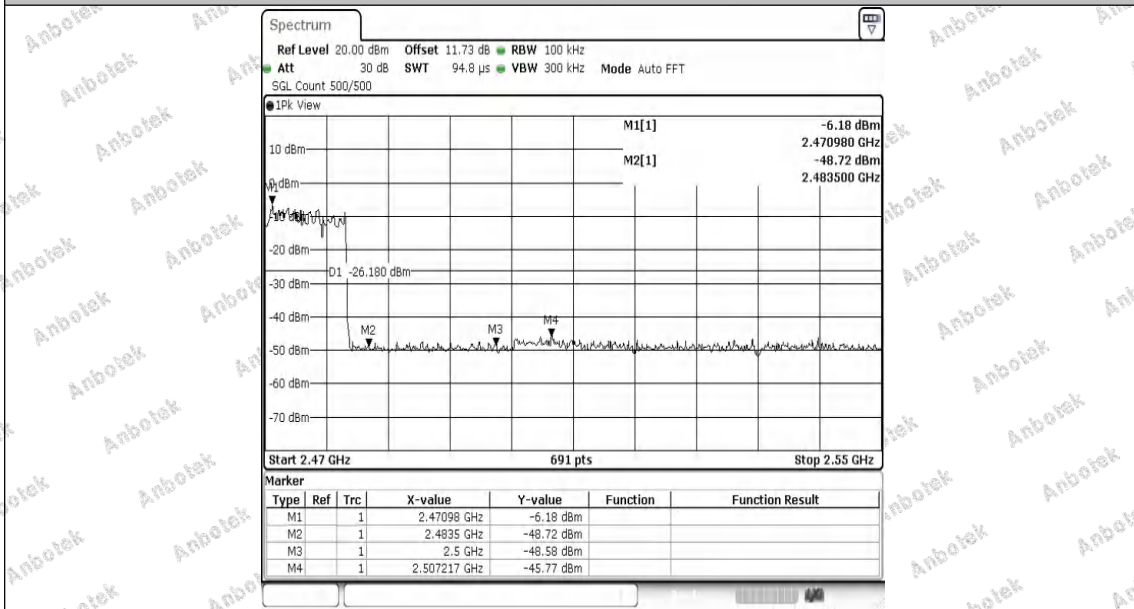


2DH5-Ant1-2480-PASS



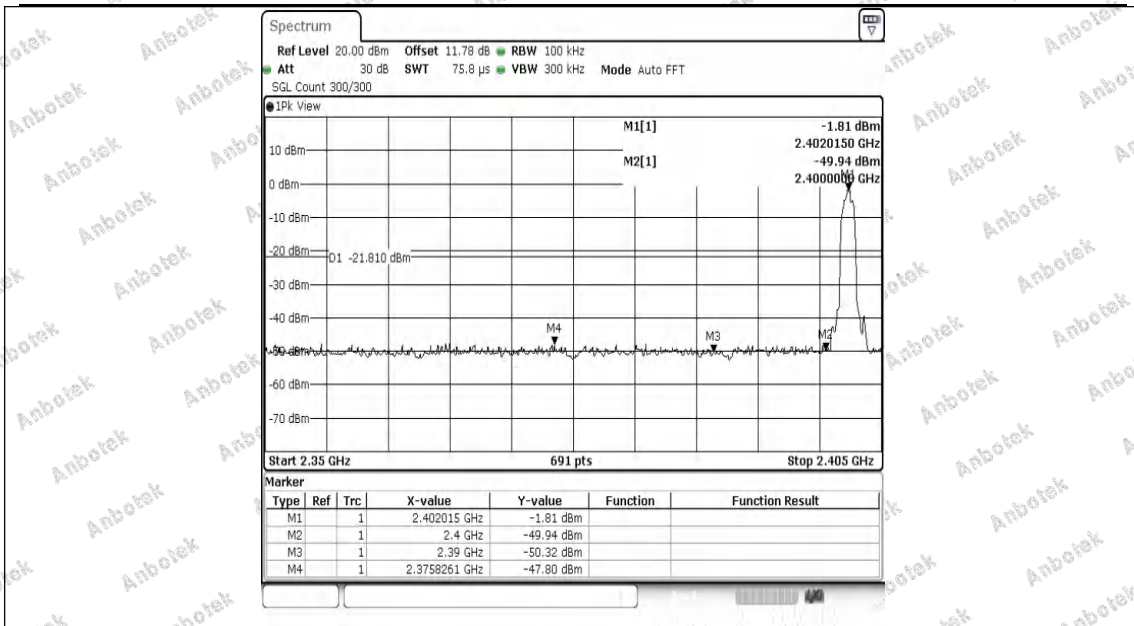


2DH5-Ant1-Hop\_2402-PASS

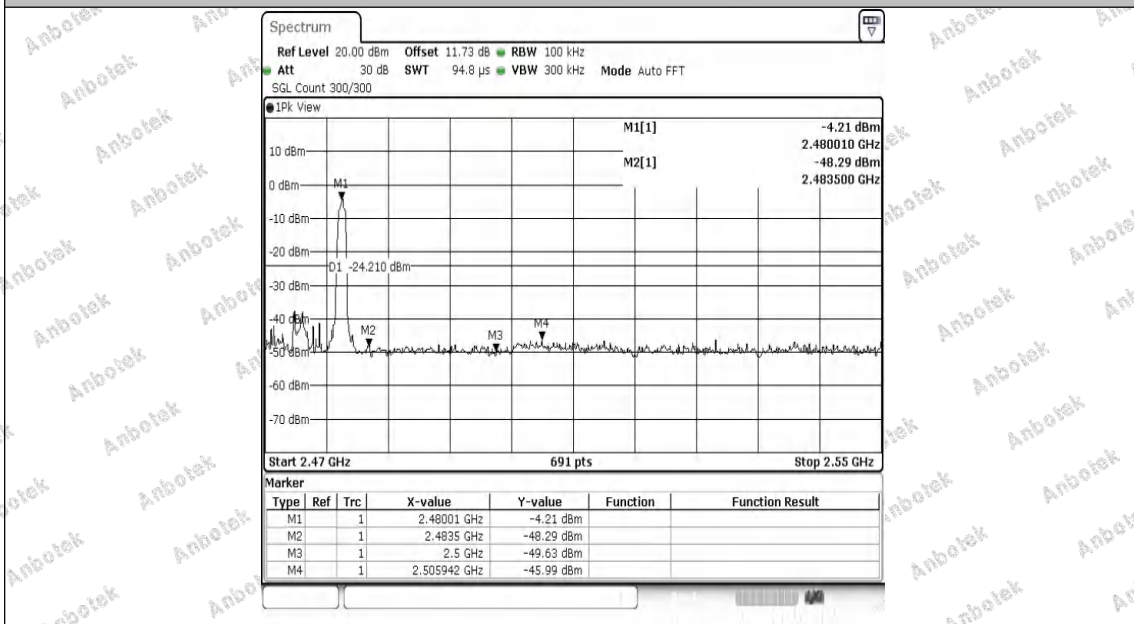


2DH5-Ant1-Hop\_2480-PASS



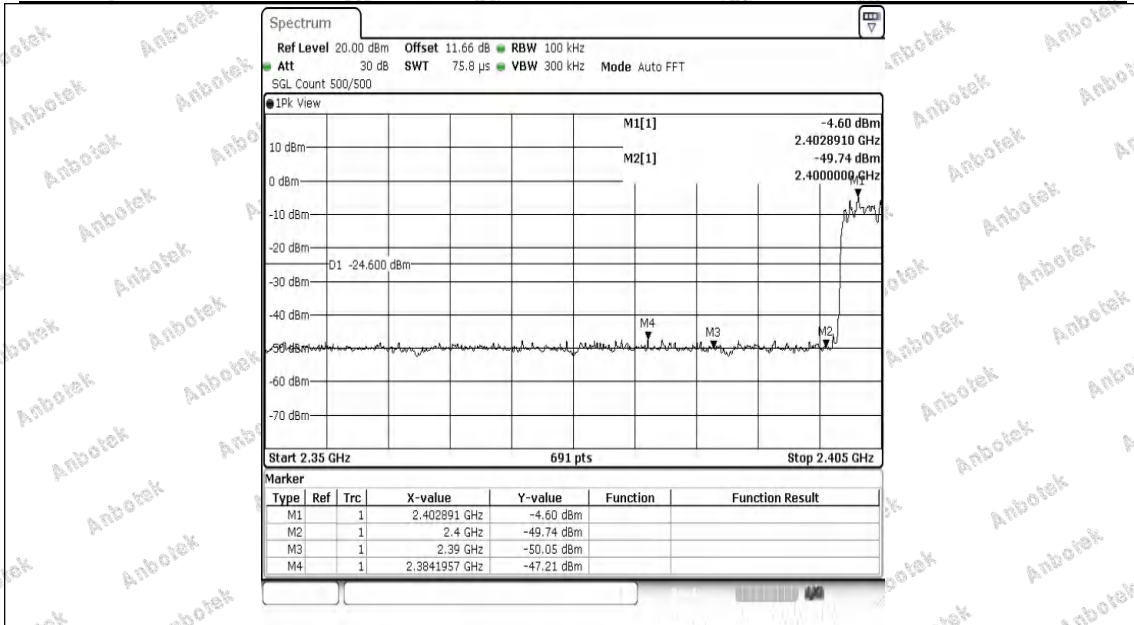


### 3DH5-Ant1-2402-PASS

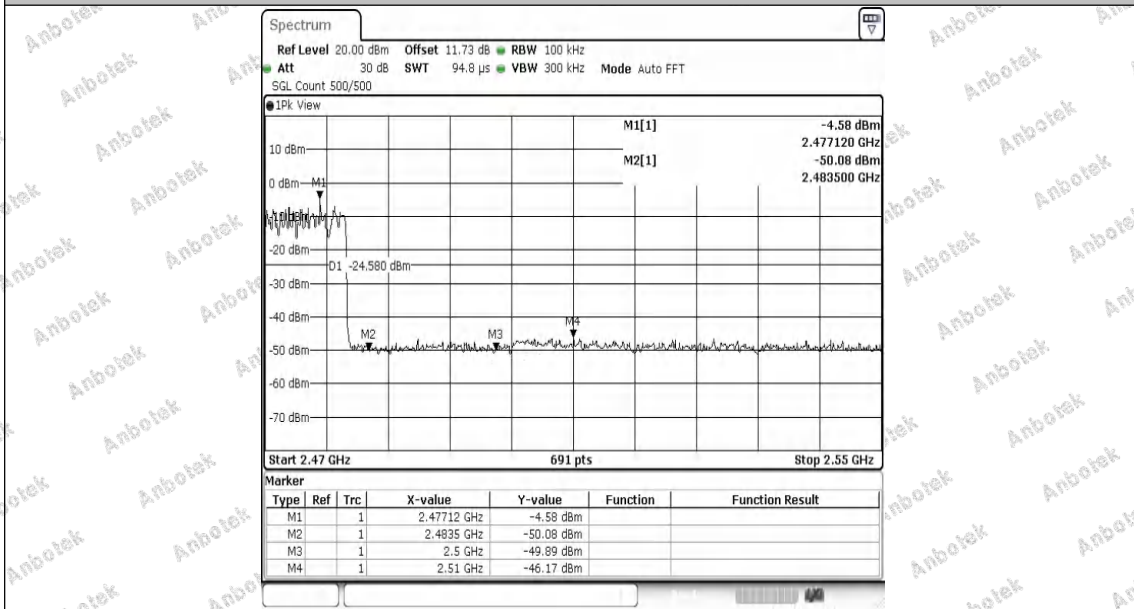


### 3DH5-Ant1-2480-PASS





3DH5-Ant1-Hop\_2402-PASS



3DH5-Ant1-Hop\_2480-PASS





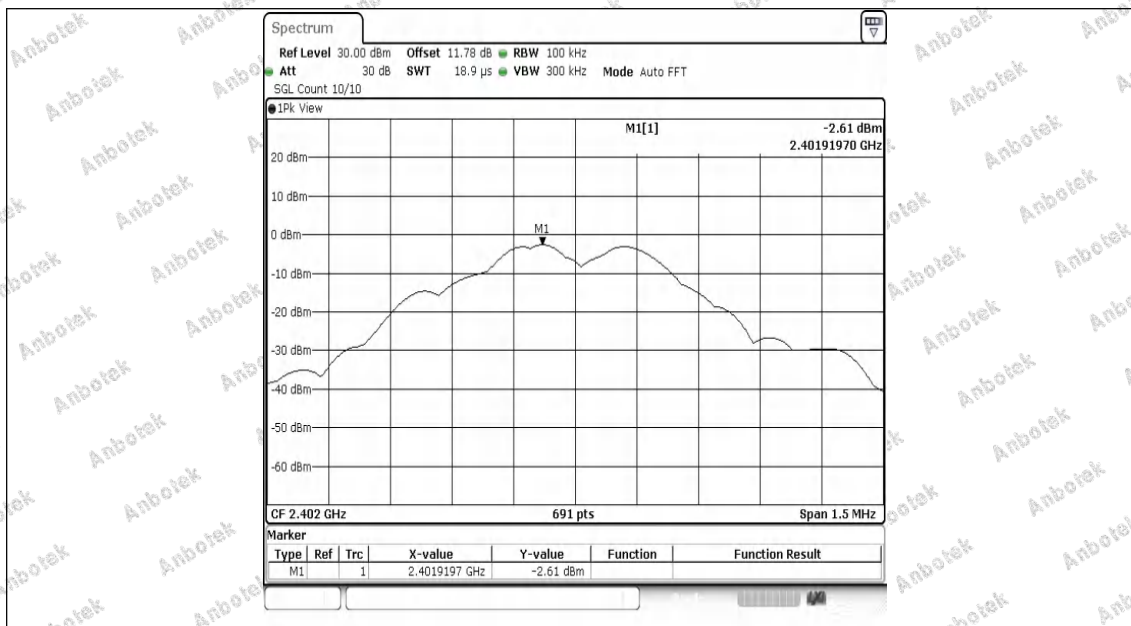
## Appendix H: Conducted Spurious Emission

### Test Result

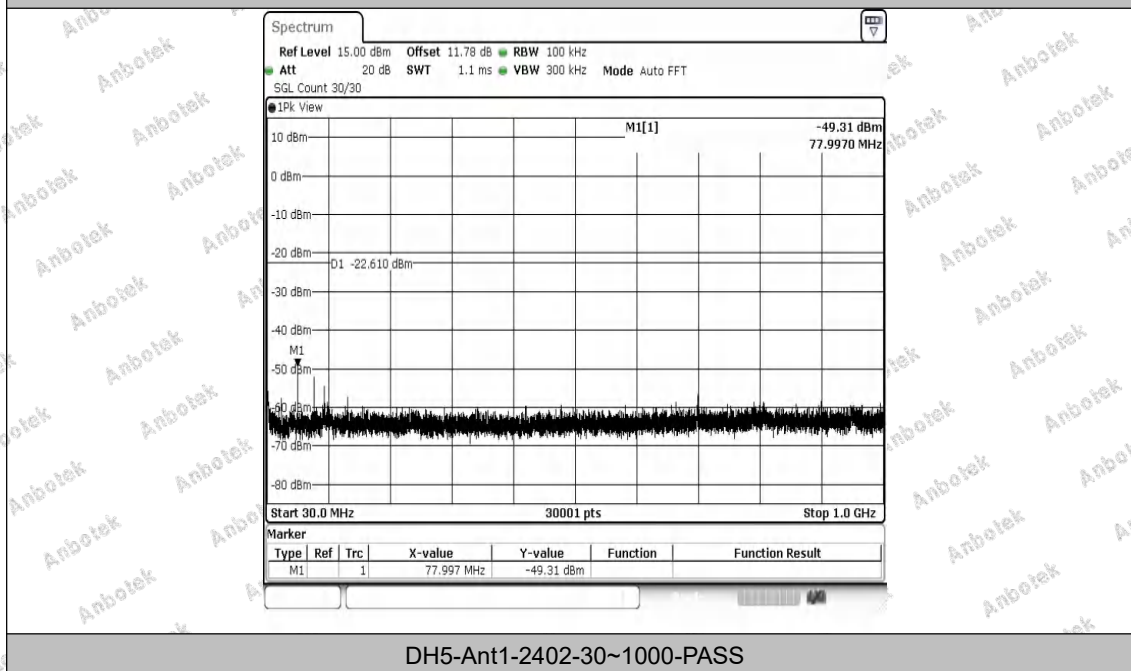
| TestMode | Antenna | Frequency[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| DH5      | Ant1    | 2402           | 0~Reference     | -2.61          | -2.61        | ---         | PASS    |
| DH5      | Ant1    | 2402           | 30~1000         | -2.61          | -49.31       | ≤-22.61     | PASS    |
| DH5      | Ant1    | 2402           | 1000~26500      | -2.61          | -44.16       | ≤-22.61     | PASS    |
| DH5      | Ant1    | 2441           | 0~Reference     | -3.86          | -3.86        | ---         | PASS    |
| DH5      | Ant1    | 2441           | 30~1000         | -3.86          | -49.62       | ≤-23.86     | PASS    |
| DH5      | Ant1    | 2441           | 1000~26500      | -3.86          | -43.62       | ≤-23.86     | PASS    |
| DH5      | Ant1    | 2480           | 0~Reference     | -5.18          | -5.18        | ---         | PASS    |
| DH5      | Ant1    | 2480           | 30~1000         | -5.18          | -49.7        | ≤-25.18     | PASS    |
| DH5      | Ant1    | 2480           | 1000~26500      | -5.18          | -42.99       | ≤-25.18     | PASS    |
| 2DH5     | Ant1    | 2402           | 0~Reference     | -6.29          | -6.29        | ---         | PASS    |
| 2DH5     | Ant1    | 2402           | 30~1000         | -6.29          | -49.03       | ≤-26.29     | PASS    |
| 2DH5     | Ant1    | 2402           | 1000~26500      | -6.29          | -43.2        | ≤-26.29     | PASS    |
| 2DH5     | Ant1    | 2441           | 0~Reference     | -3.92          | -3.92        | ---         | PASS    |
| 2DH5     | Ant1    | 2441           | 30~1000         | -3.92          | -49.31       | ≤-23.92     | PASS    |
| 2DH5     | Ant1    | 2441           | 1000~26500      | -3.92          | -43.26       | ≤-23.92     | PASS    |
| 2DH5     | Ant1    | 2480           | 0~Reference     | -7.31          | -7.31        | ---         | PASS    |
| 2DH5     | Ant1    | 2480           | 30~1000         | -7.31          | -49.56       | ≤-27.31     | PASS    |
| 2DH5     | Ant1    | 2480           | 1000~26500      | -7.31          | -43.34       | ≤-27.31     | PASS    |
| 3DH5     | Ant1    | 2402           | 0~Reference     | -5.85          | -5.85        | ---         | PASS    |
| 3DH5     | Ant1    | 2402           | 30~1000         | -5.85          | -49.33       | ≤-25.85     | PASS    |
| 3DH5     | Ant1    | 2402           | 1000~26500      | -5.85          | -43.82       | ≤-25.85     | PASS    |
| 3DH5     | Ant1    | 2441           | 0~Reference     | -6.06          | -6.06        | ---         | PASS    |
| 3DH5     | Ant1    | 2441           | 30~1000         | -6.06          | -49.38       | ≤-26.06     | PASS    |
| 3DH5     | Ant1    | 2441           | 1000~26500      | -6.06          | -43.06       | ≤-26.06     | PASS    |
| 3DH5     | Ant1    | 2480           | 0~Reference     | -4.24          | -4.24        | ---         | PASS    |
| 3DH5     | Ant1    | 2480           | 30~1000         | -4.24          | -49.63       | ≤-24.24     | PASS    |
| 3DH5     | Ant1    | 2480           | 1000~26500      | -4.24          | -43.77       | ≤-24.24     | PASS    |



## Test Graphs

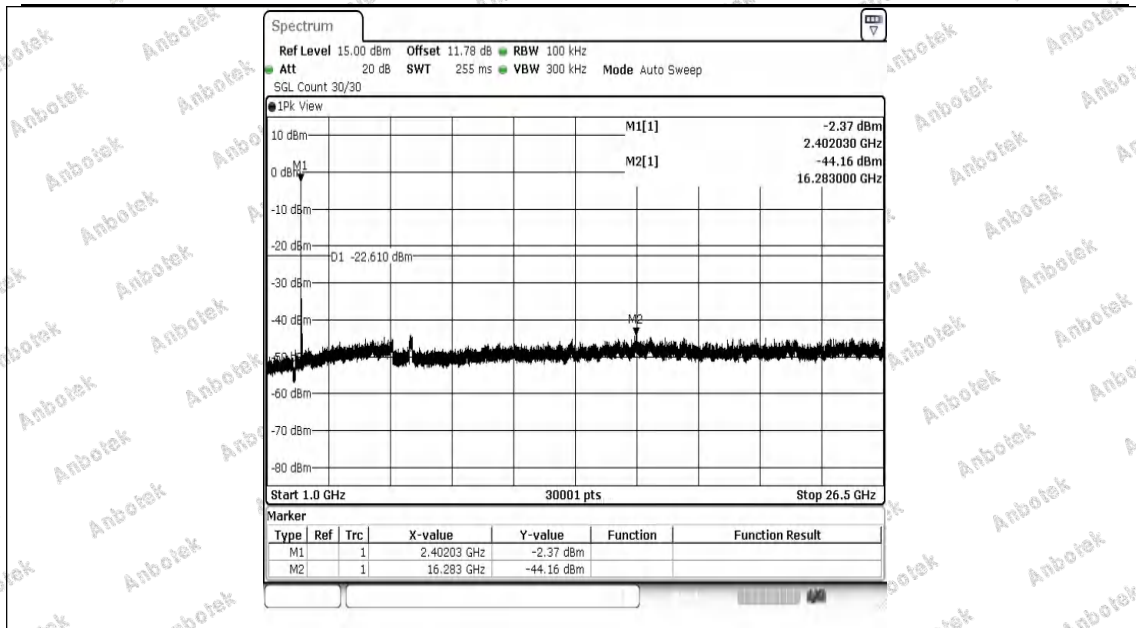


DH5-Ant1-2402-0~Reference-PASS

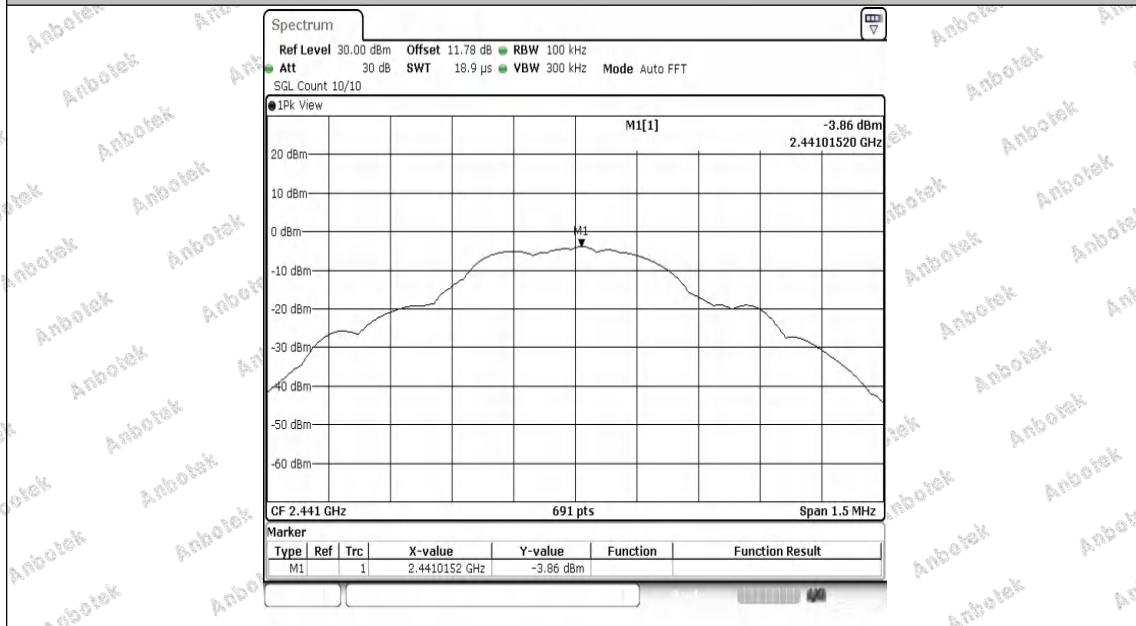


DH5-Ant1-2402-30~1000-PASS



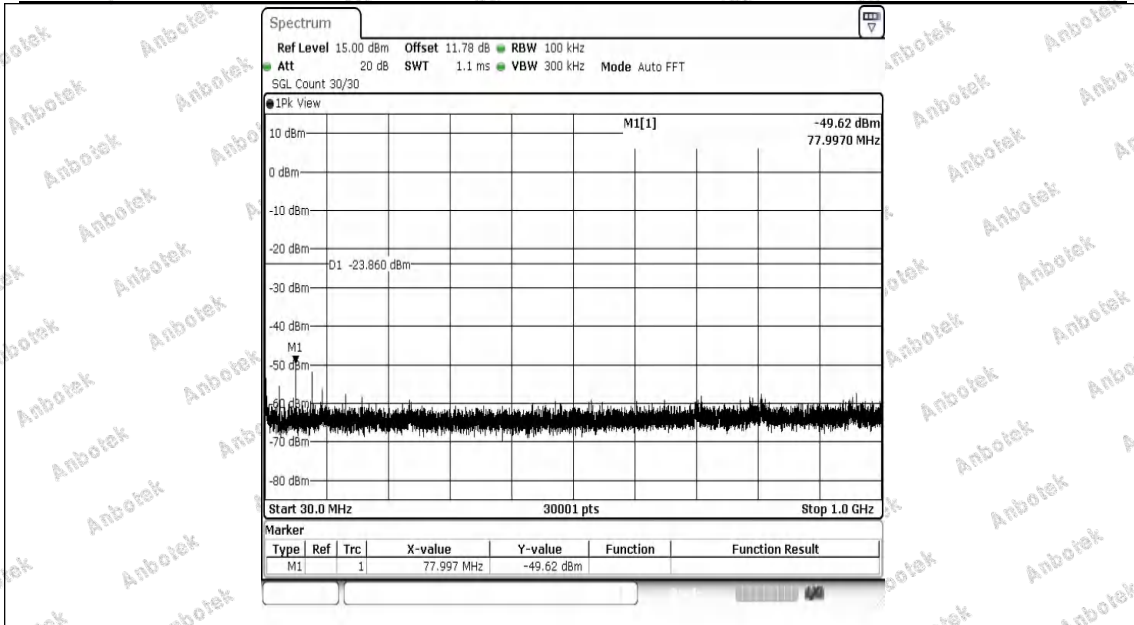


DH5-Ant1-2402-1000~26500-PASS

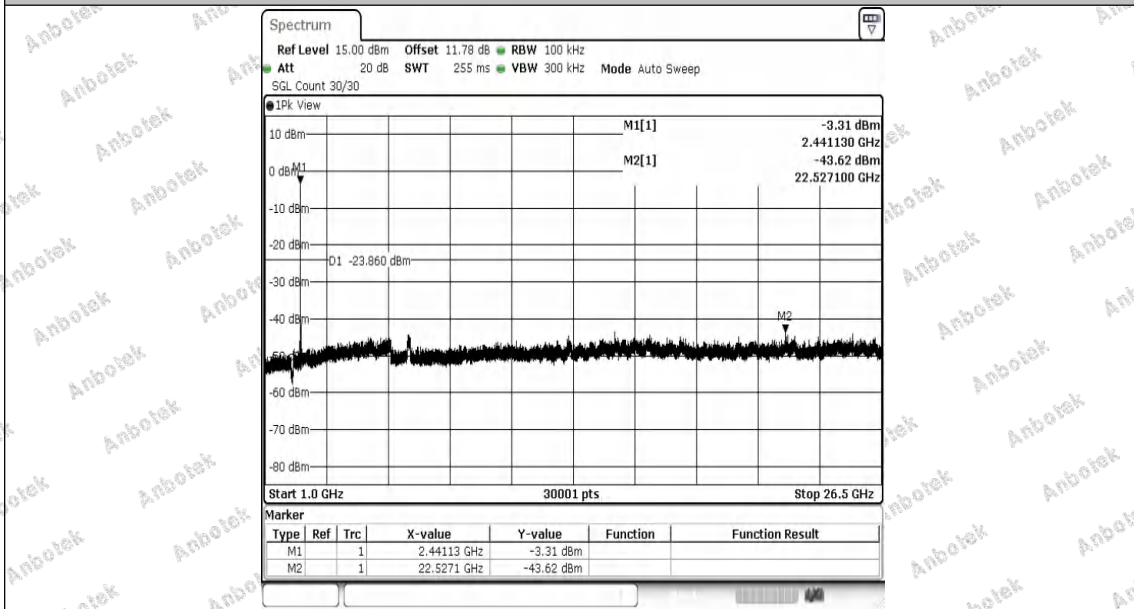


DH5-Ant1-2441-0~Reference-PASS



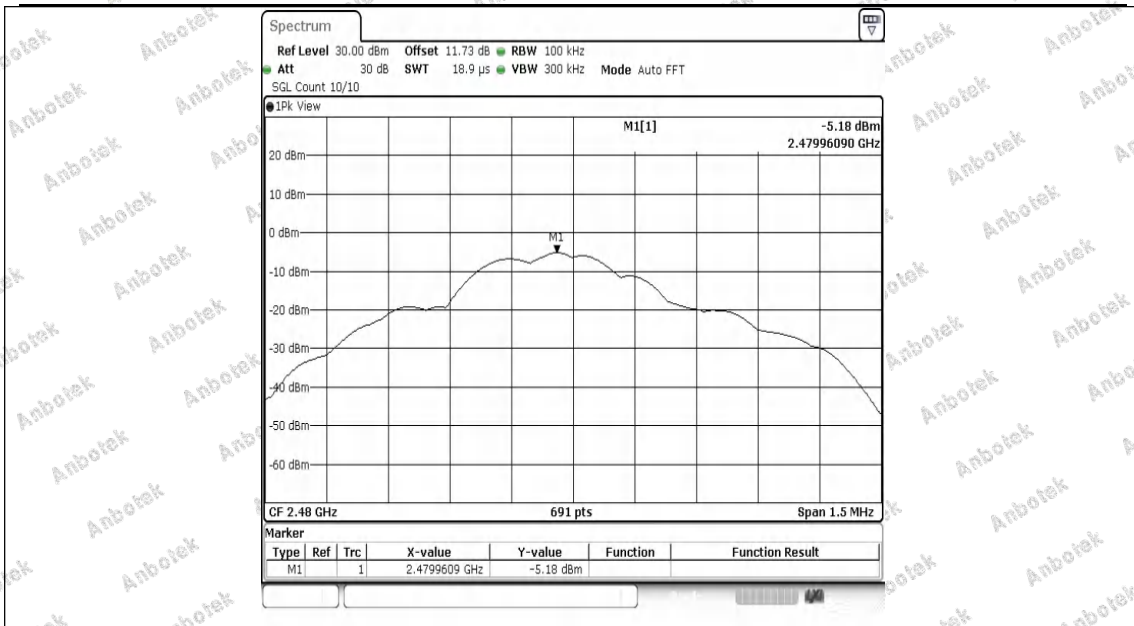


DH5-Ant1-2441-30~1000-PASS

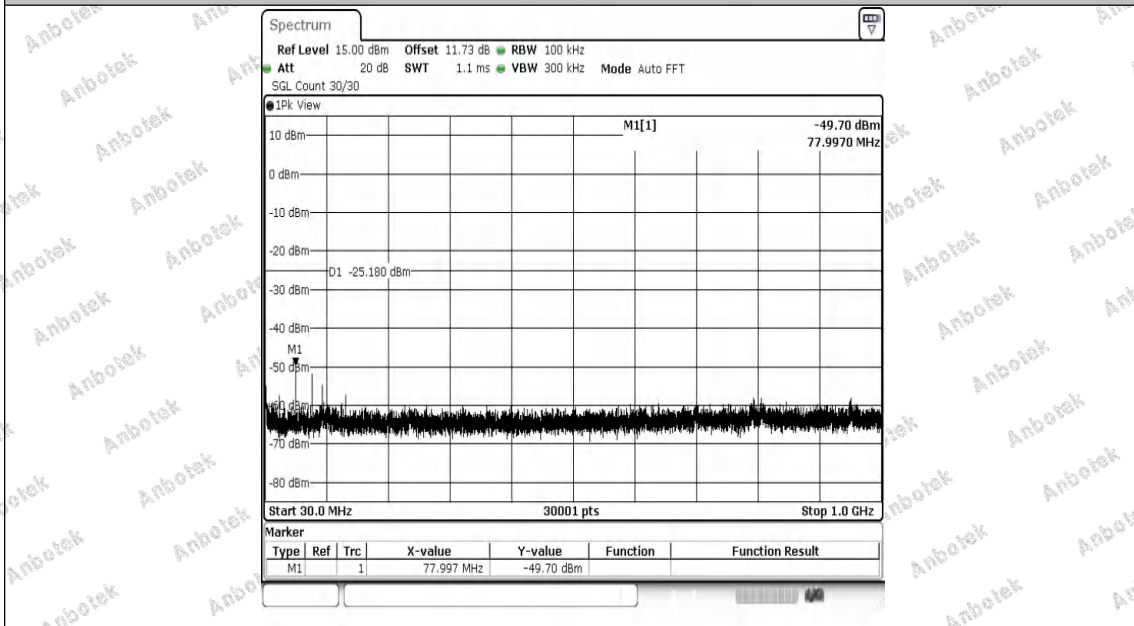


DH5-Ant1-2441-1000~26500-PASS



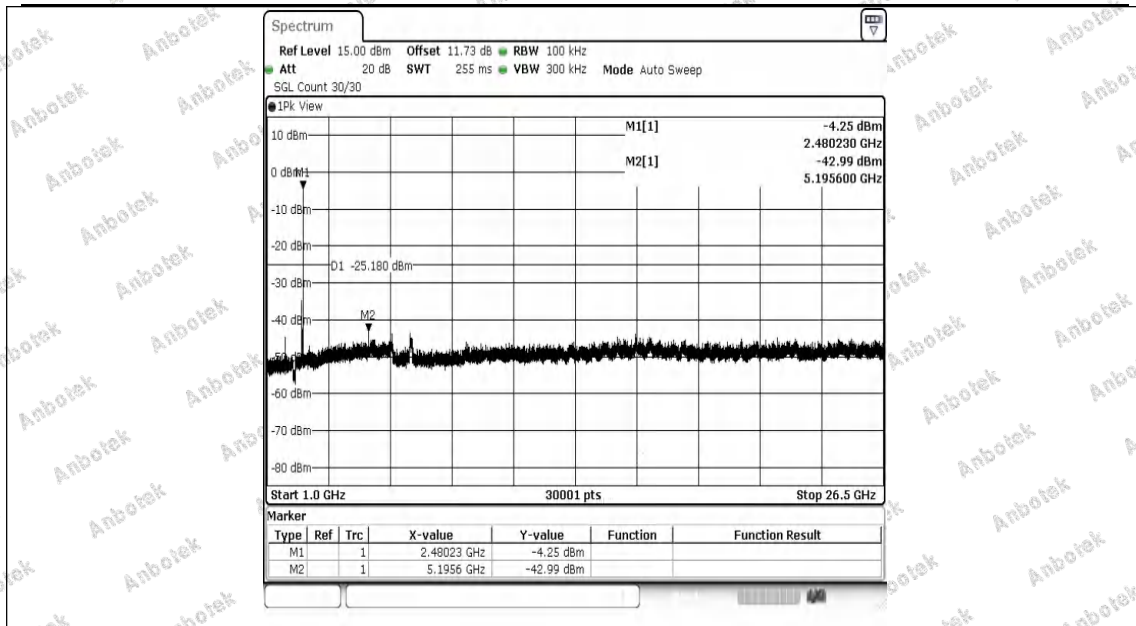


DH5-Ant1-2480-0~Reference-PASS

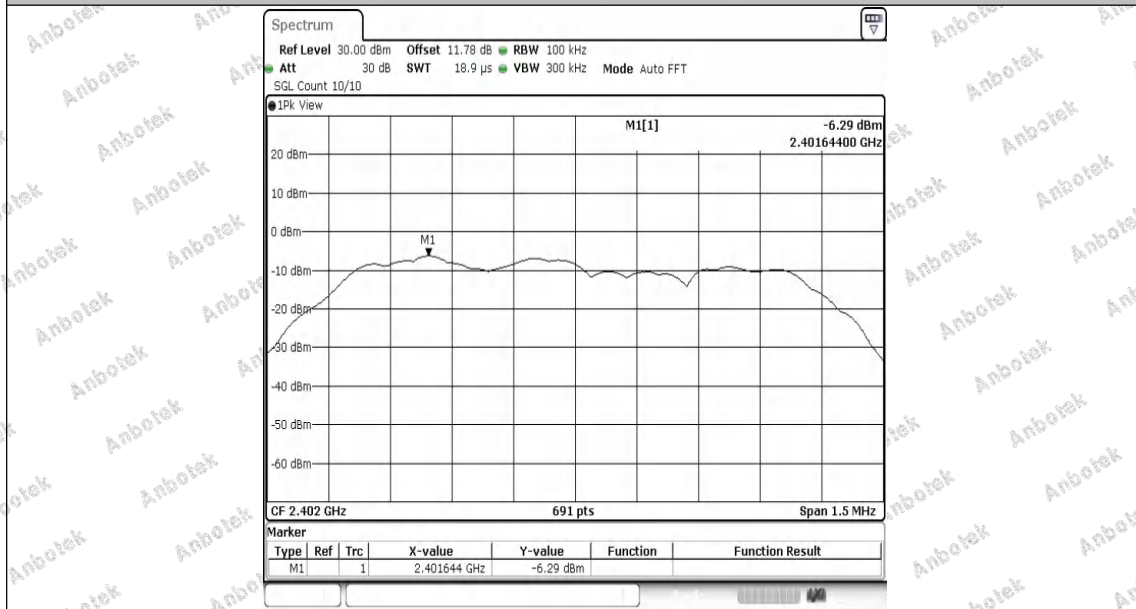


DH5-Ant1-2480-30~1000-PASS



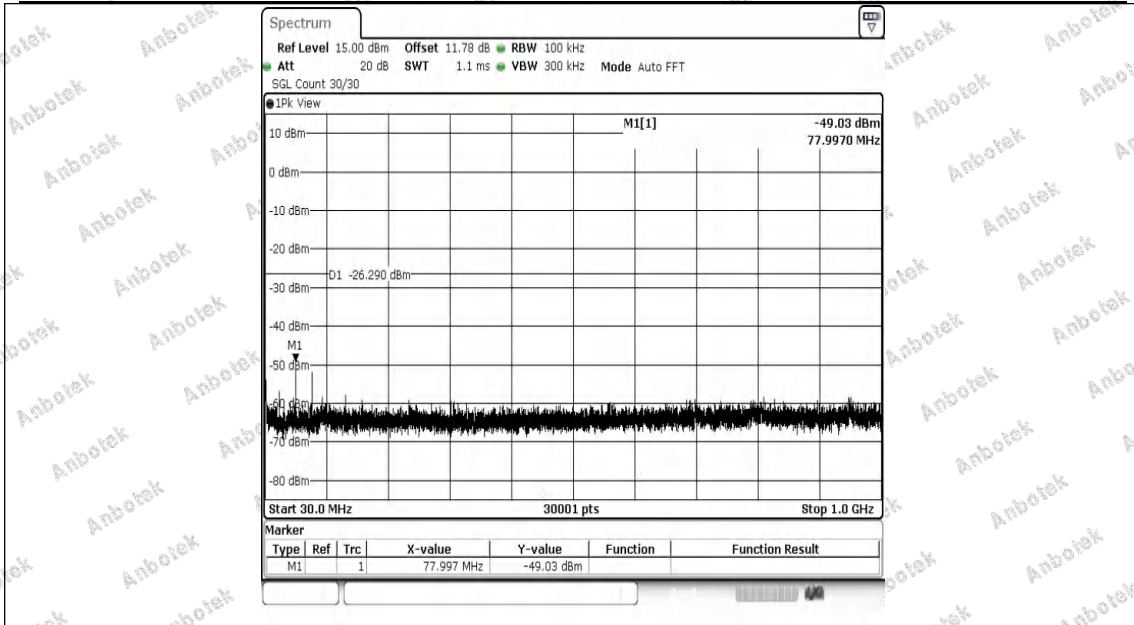


DH5-Ant1-2480-1000~26500-PASS

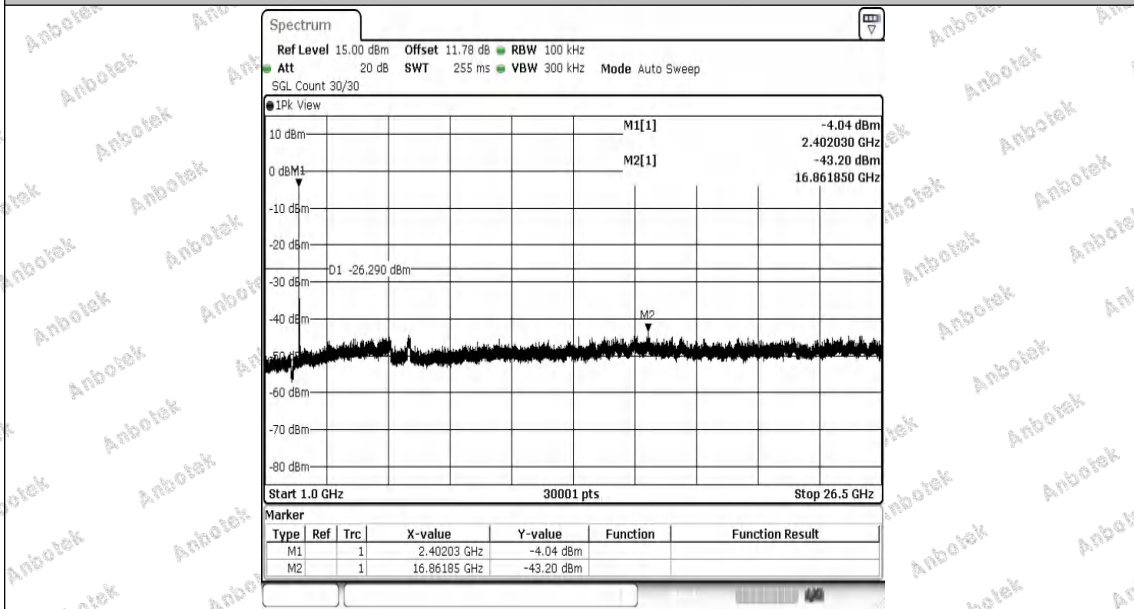


2DH5-Ant1-2402-0~Reference-PASS



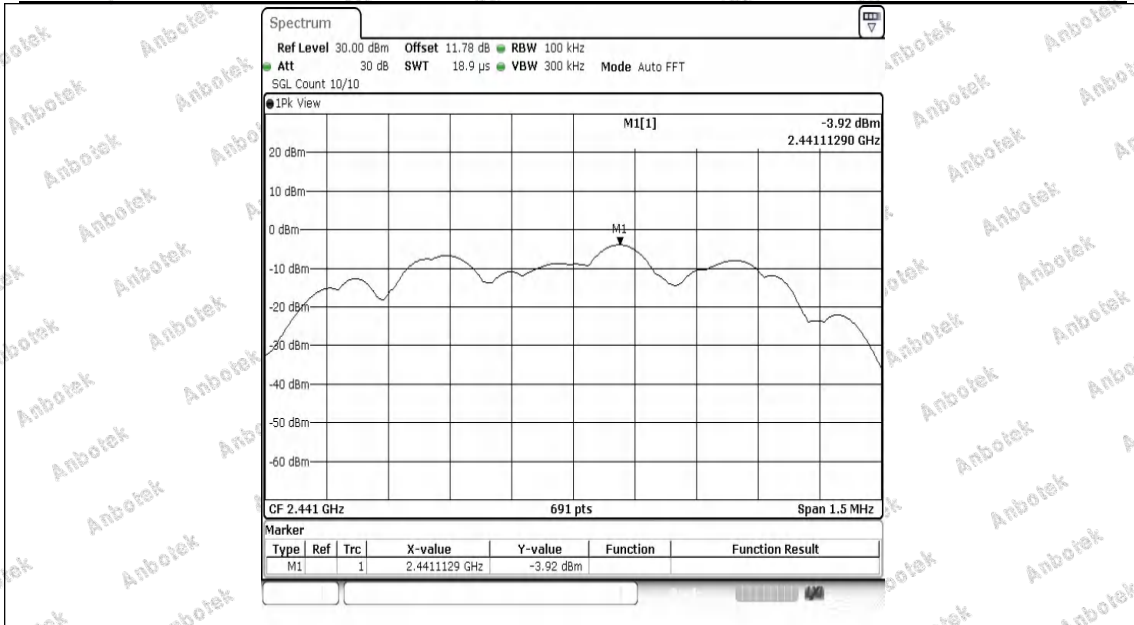


2DH5-Ant1-2402-30~1000-PASS

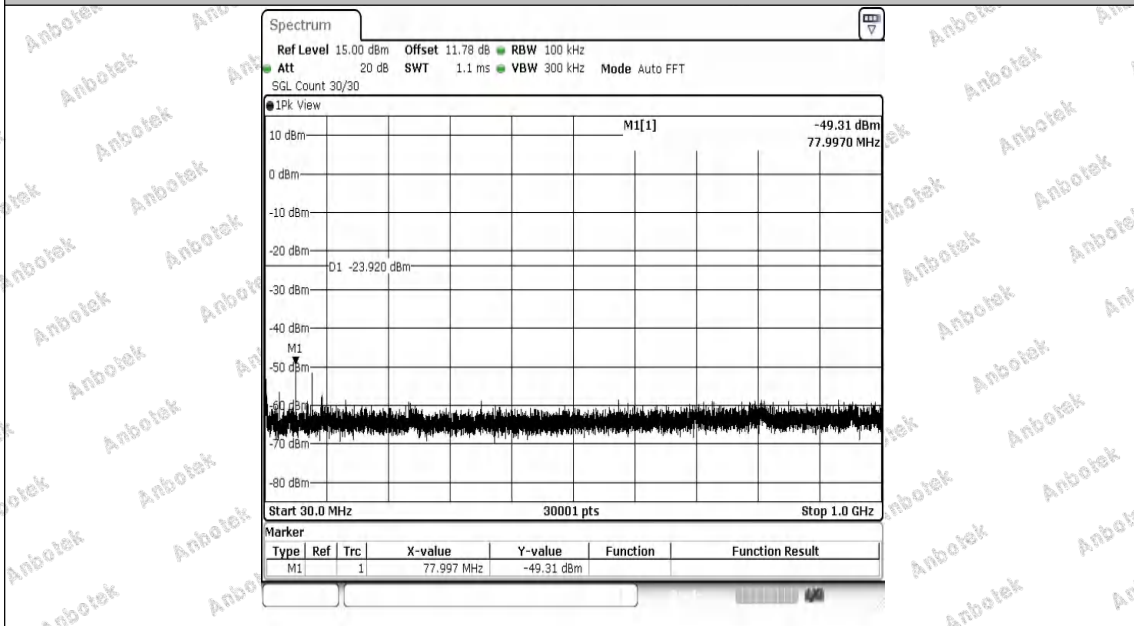


2DH5-Ant1-2402-1000~26500-PASS





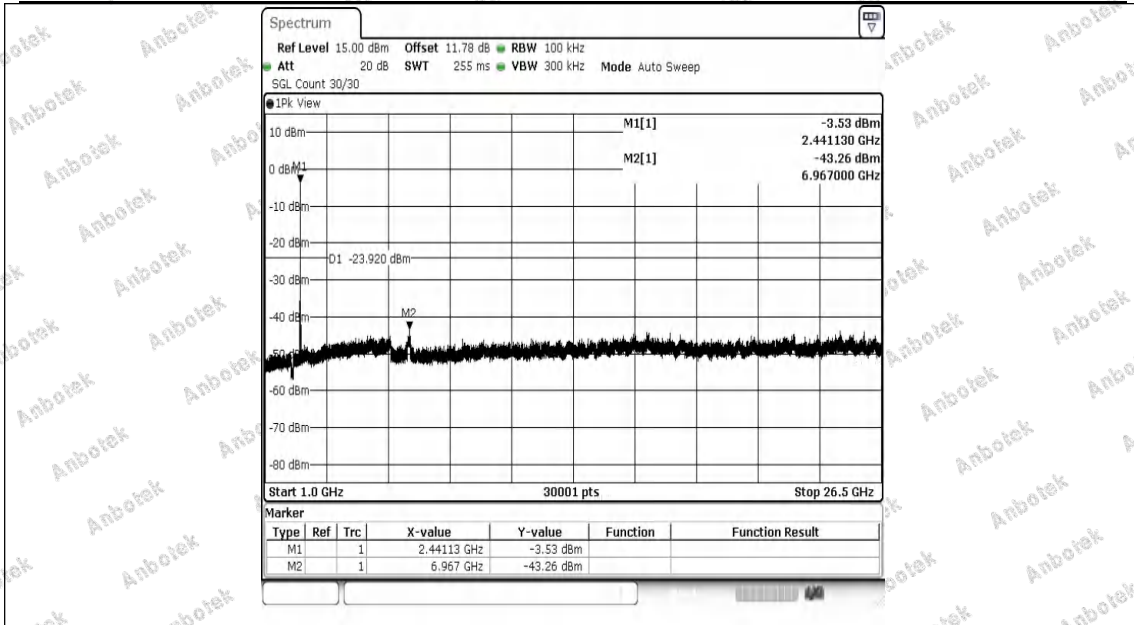
2DH5-Ant1-2441-0~Reference-PASS



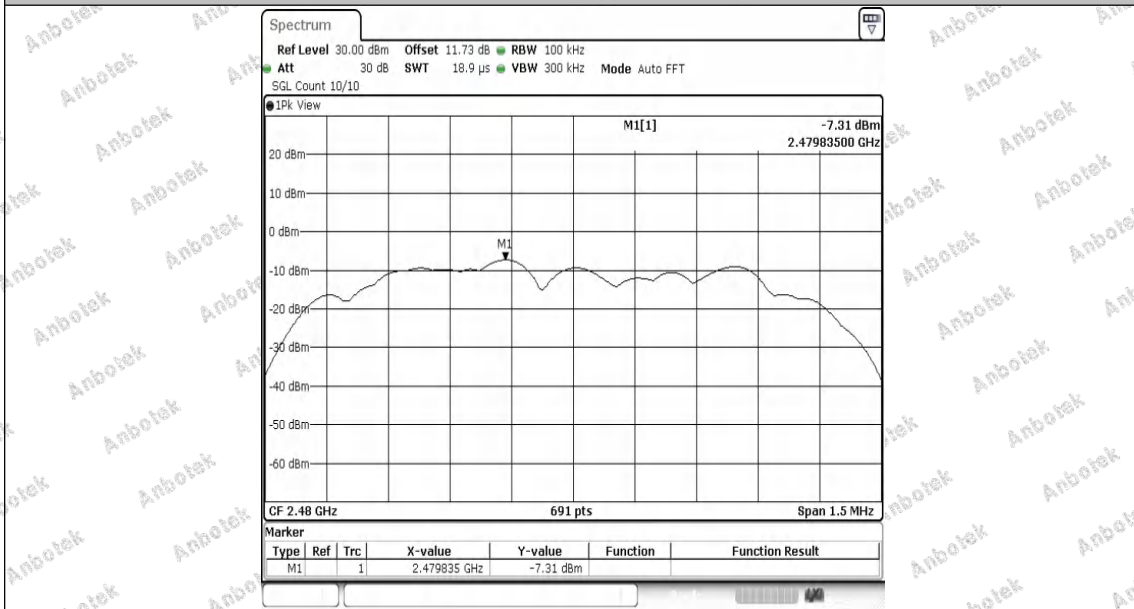
2DH5-Ant1-2441-30~1000-PASS





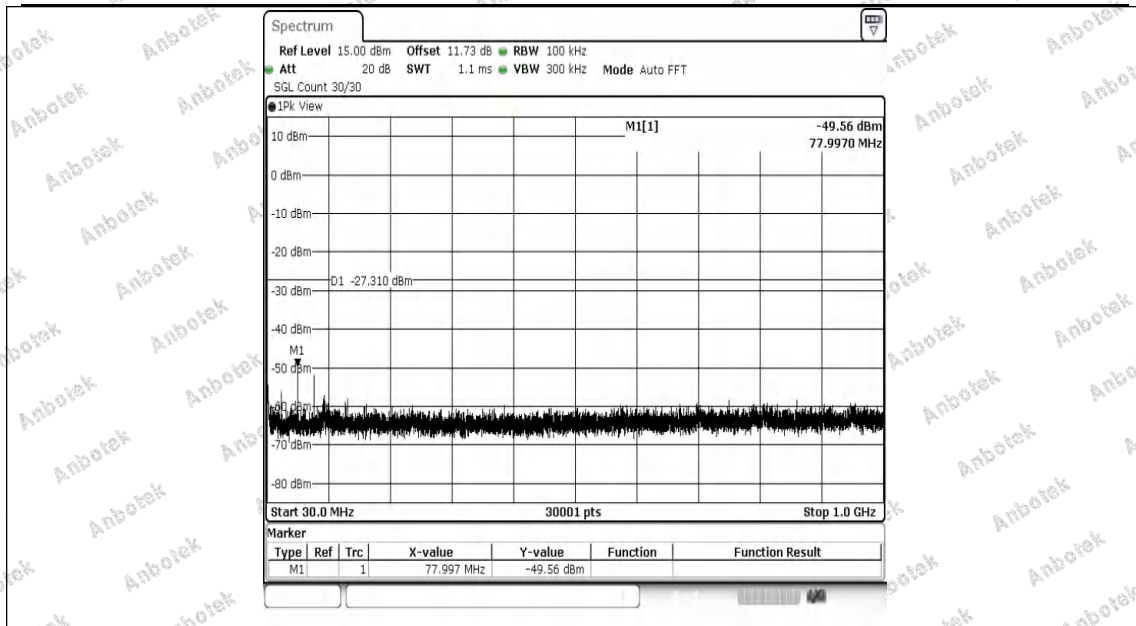


2DH5-Ant1-2441-1000~26500-PASS

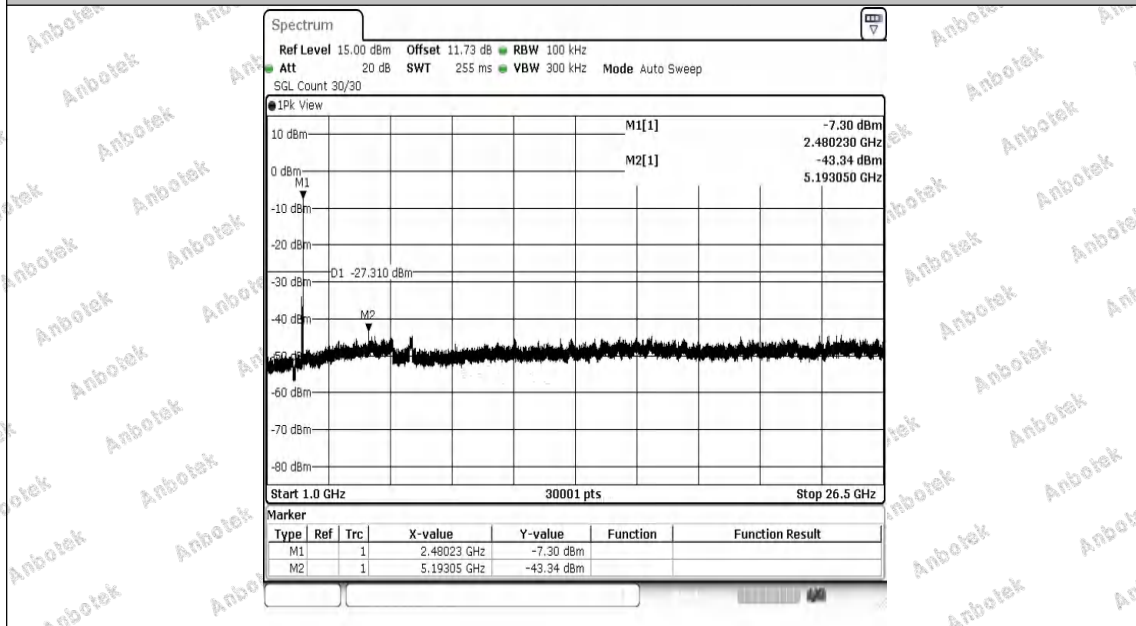


2DH5-Ant1-2480-0~Reference-PASS



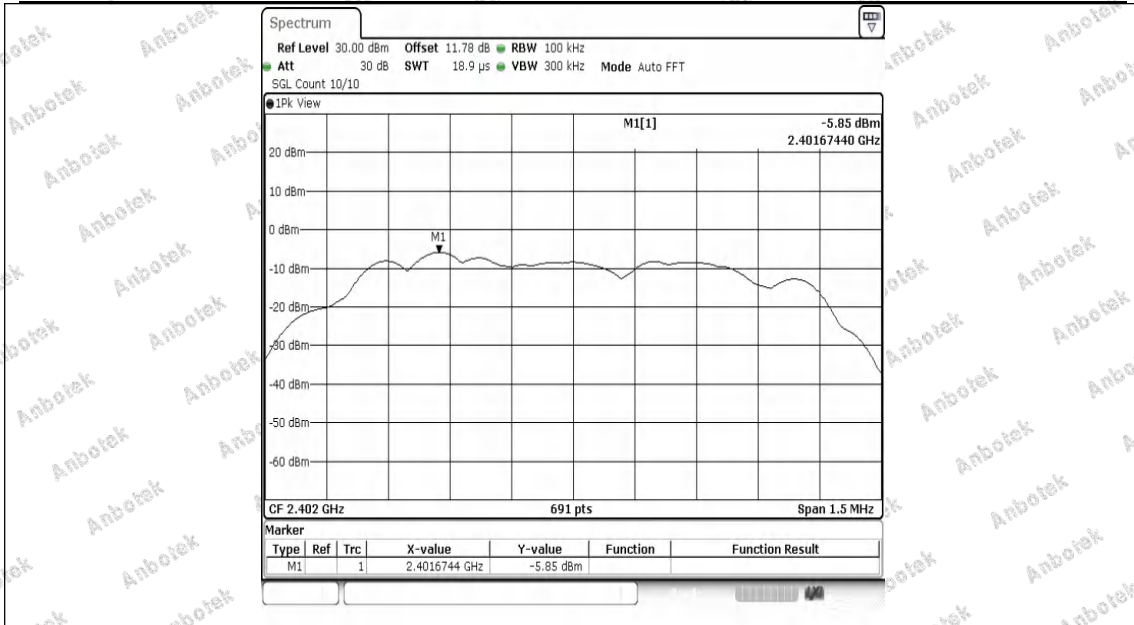


2DH5-Ant1-2480-30~1000-PASS

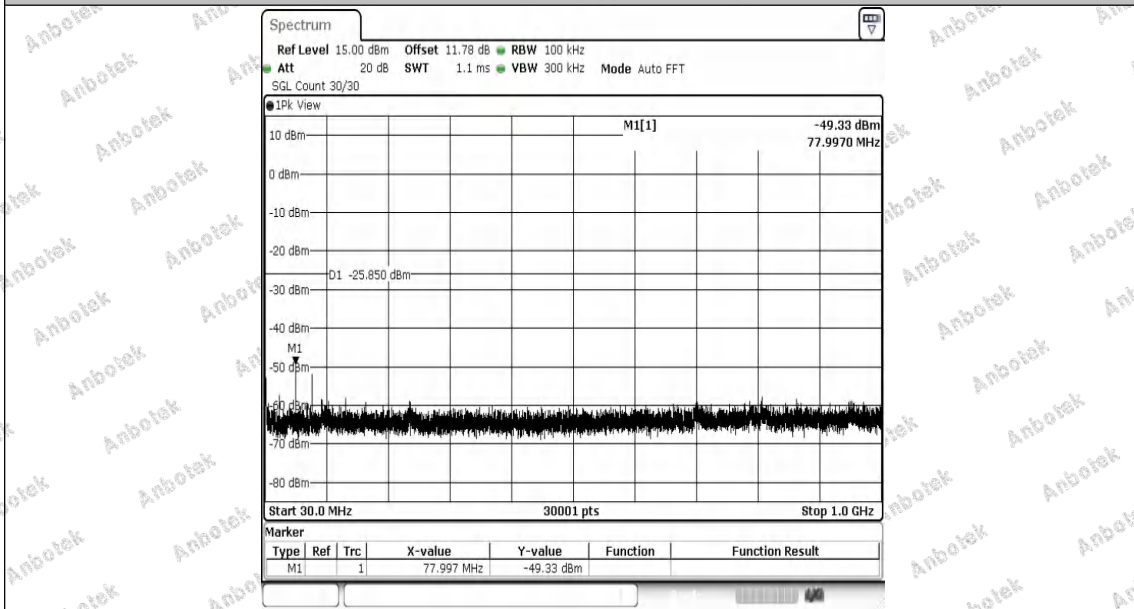


2DH5-Ant1-2480-1000~26500-PASS



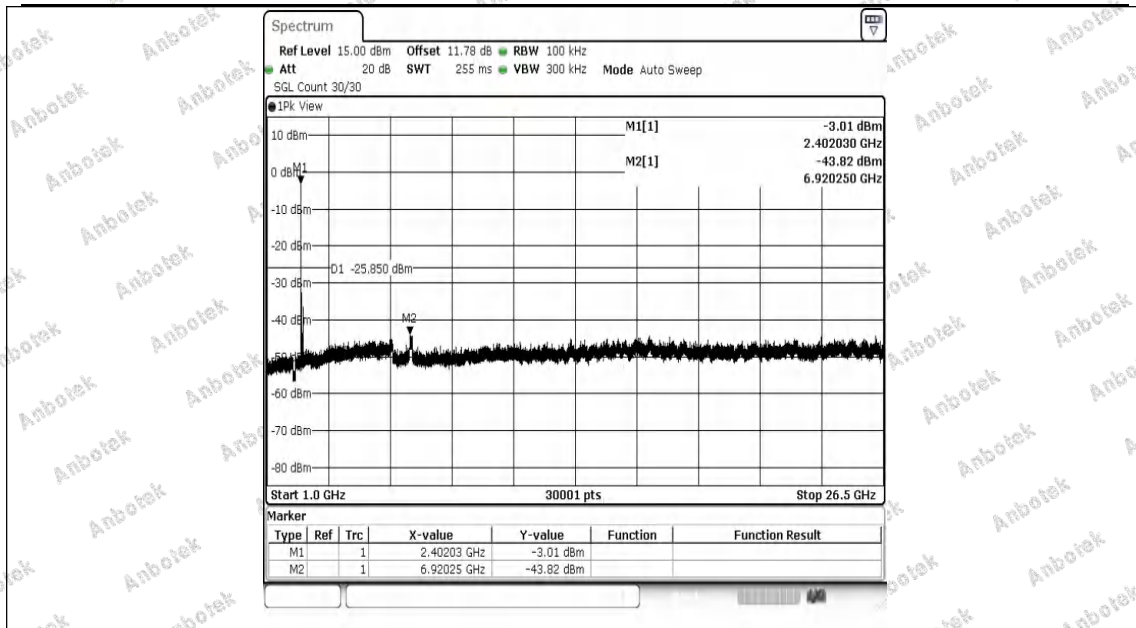


3DH5-Ant1-2402-0~Reference-PASS

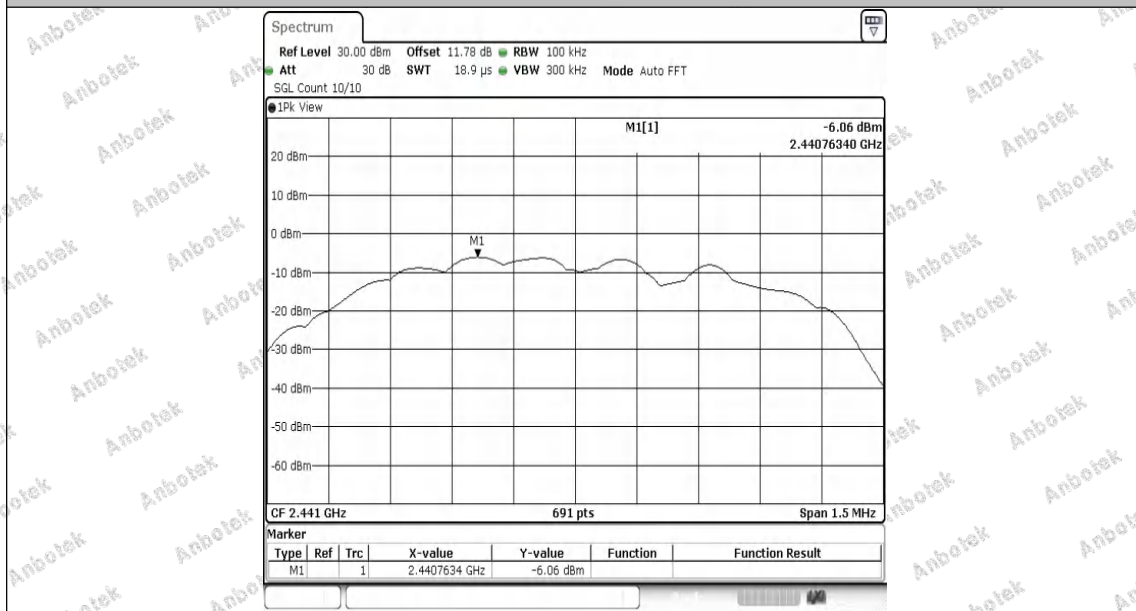


3DH5-Ant1-2402-30~1000-PASS



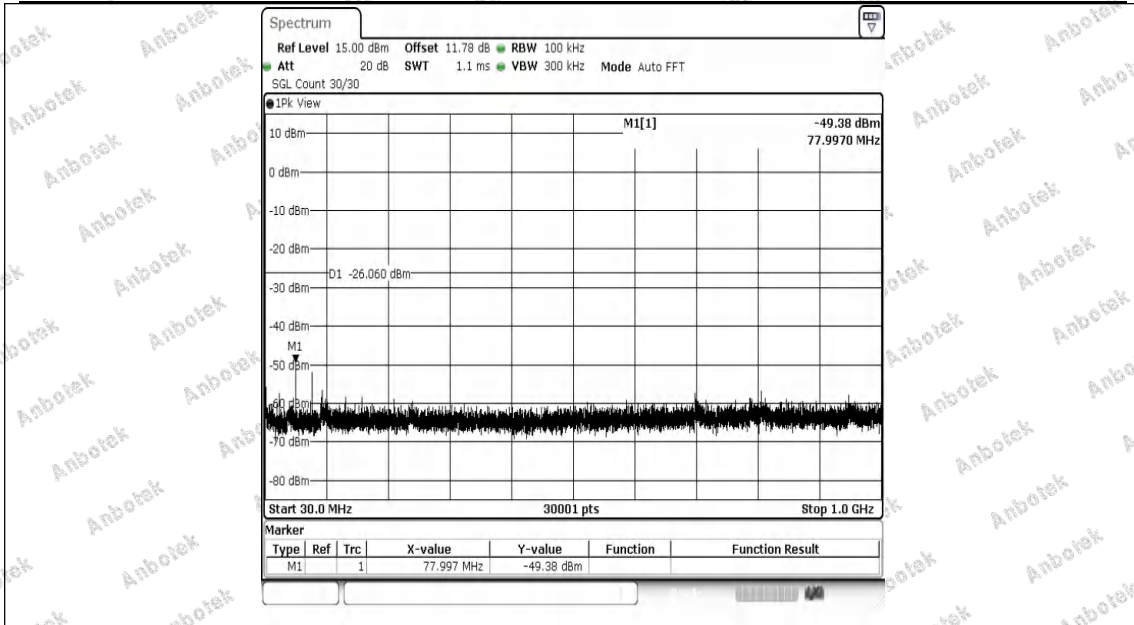


3DH5-Ant1-2402-1000~26500-PASS

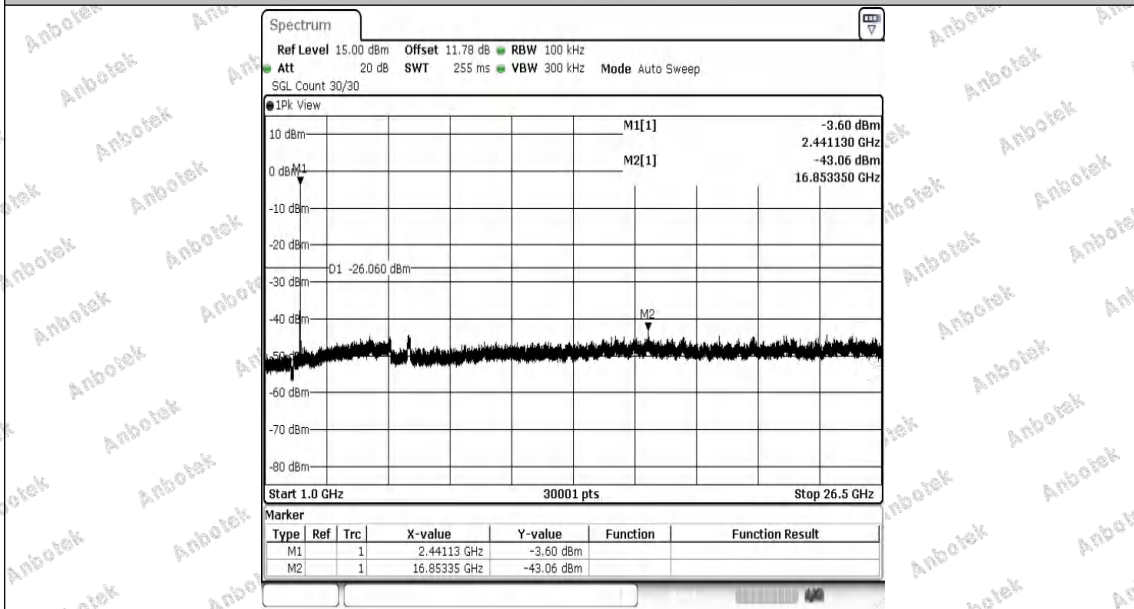


3DH5-Ant1-2441-0~Reference-PASS



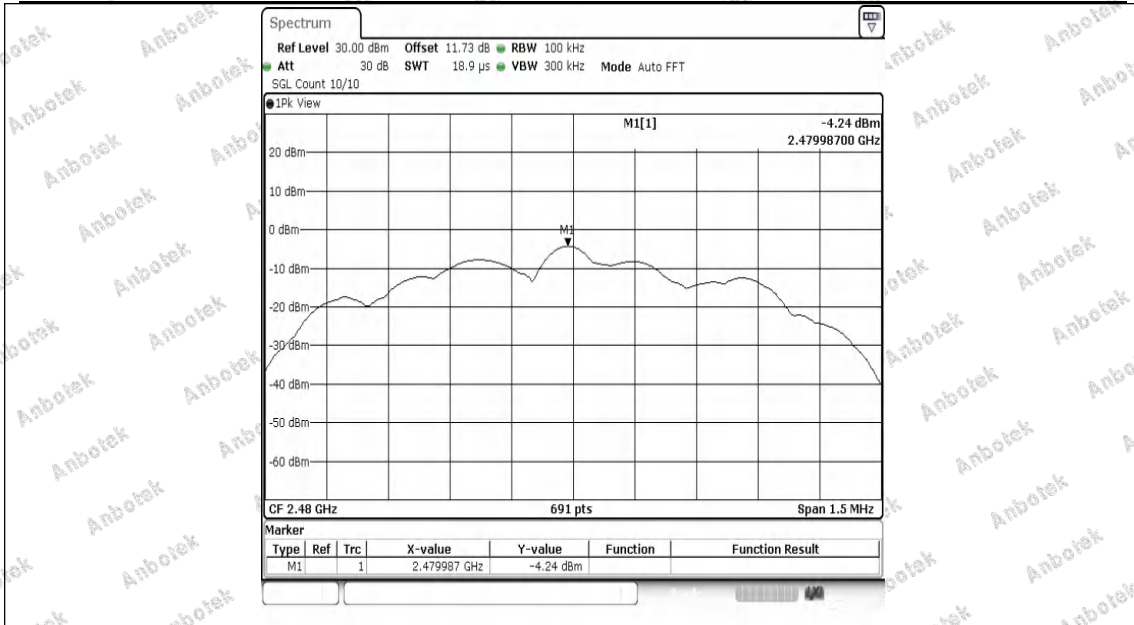


3DH5-Ant1-2441-30~1000-PASS

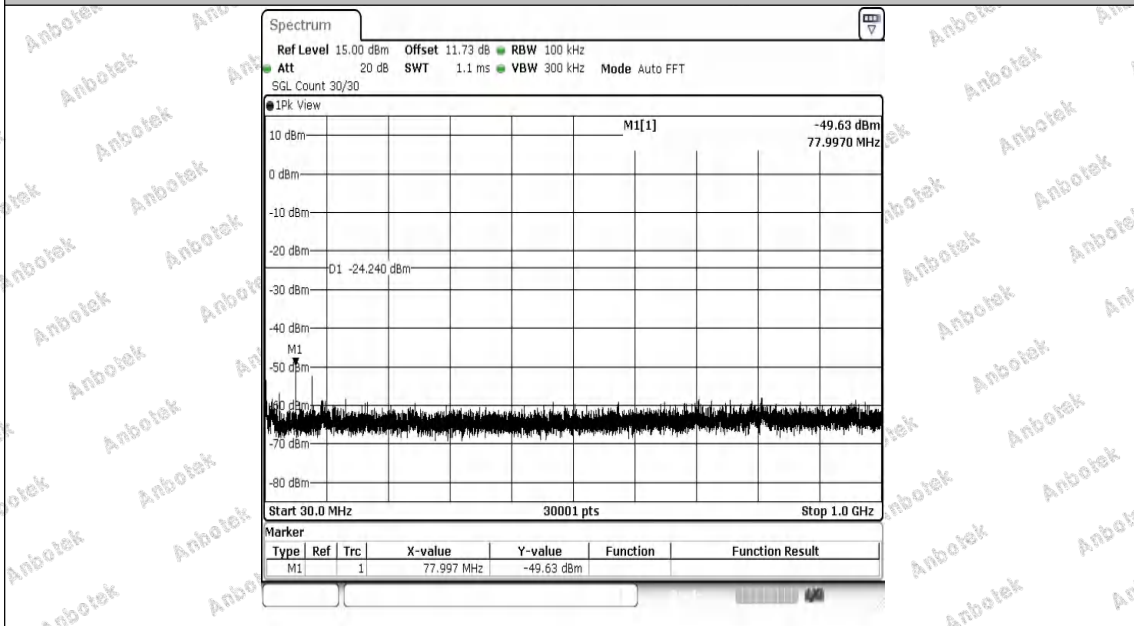


3DH5-Ant1-2441-1000~26500-PASS



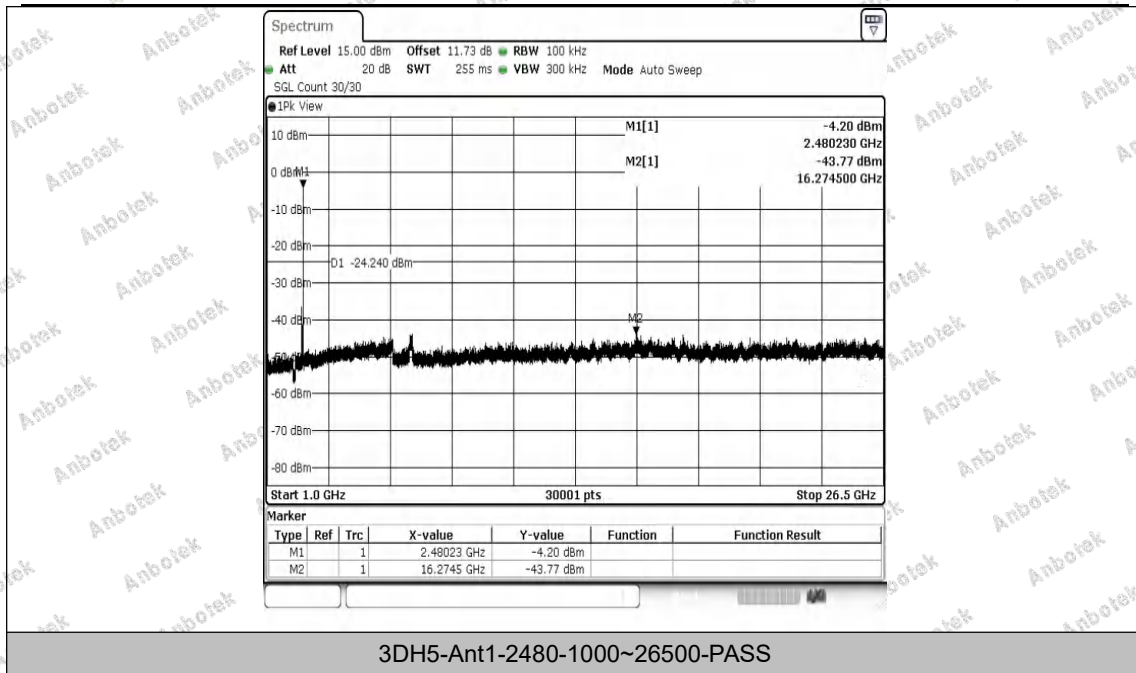


3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS





## Appendix I: Duty Cycle

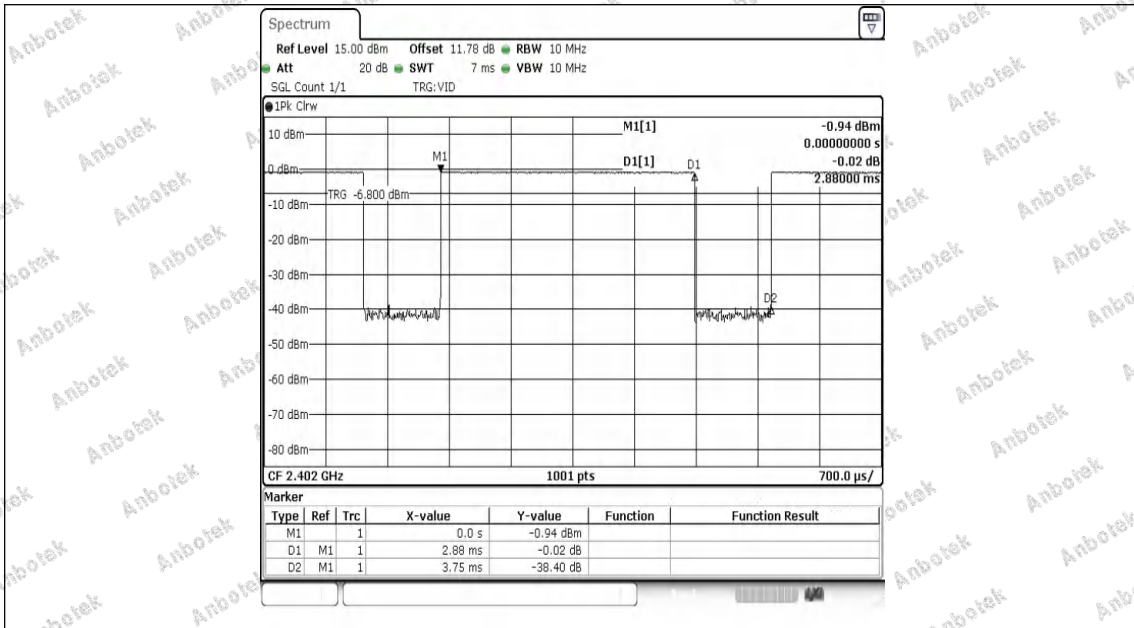
### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time [ms] | Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] |
|----------|---------|----------------|--------------|-------------|----------------|-----------------------|
| DH5      | Ant1    | 2402           | 2.88         | 3.75        | 76.80          | 1.15                  |
| DH5      | Ant1    | 2441           | 2.89         | 3.75        | 77.07          | 1.13                  |
| DH5      | Ant1    | 2480           | 2.89         | 3.75        | 77.07          | 1.13                  |
| 2DH5     | Ant1    | 2402           | 2.88         | 3.75        | 76.80          | 1.15                  |
| 2DH5     | Ant1    | 2441           | 2.89         | 3.75        | 77.07          | 1.13                  |
| 2DH5     | Ant1    | 2480           | 2.89         | 3.75        | 77.07          | 1.13                  |
| 3DH5     | Ant1    | 2402           | 2.89         | 3.75        | 77.07          | 1.13                  |
| 3DH5     | Ant1    | 2441           | 2.89         | 3.75        | 77.07          | 1.13                  |
| 3DH5     | Ant1    | 2480           | 2.89         | 3.75        | 77.07          | 1.13                  |

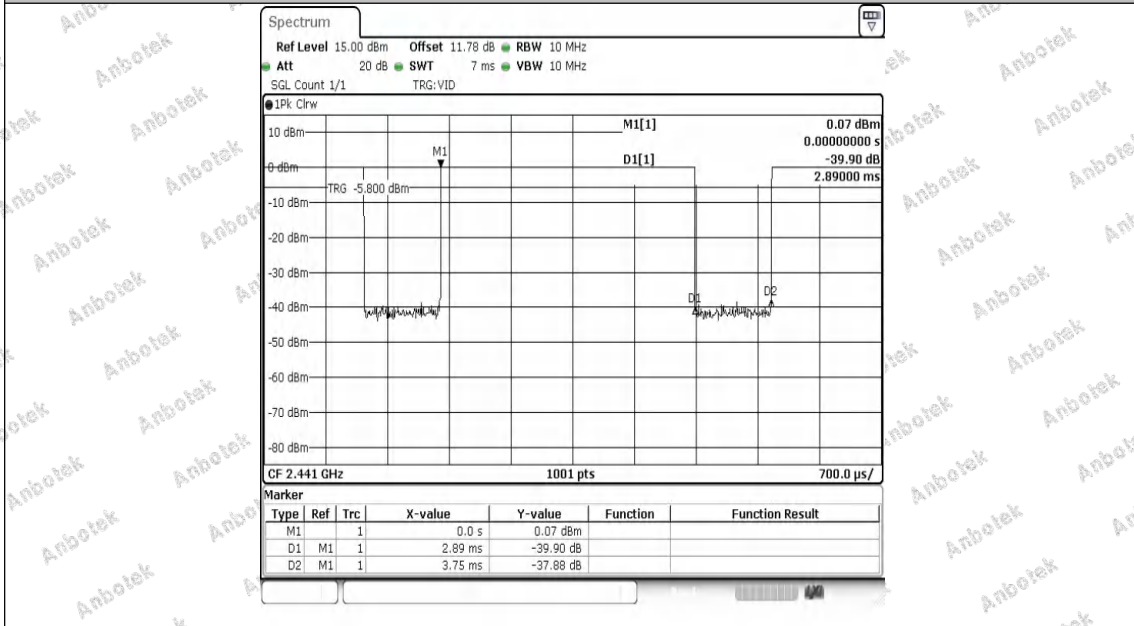




## Test Graphs

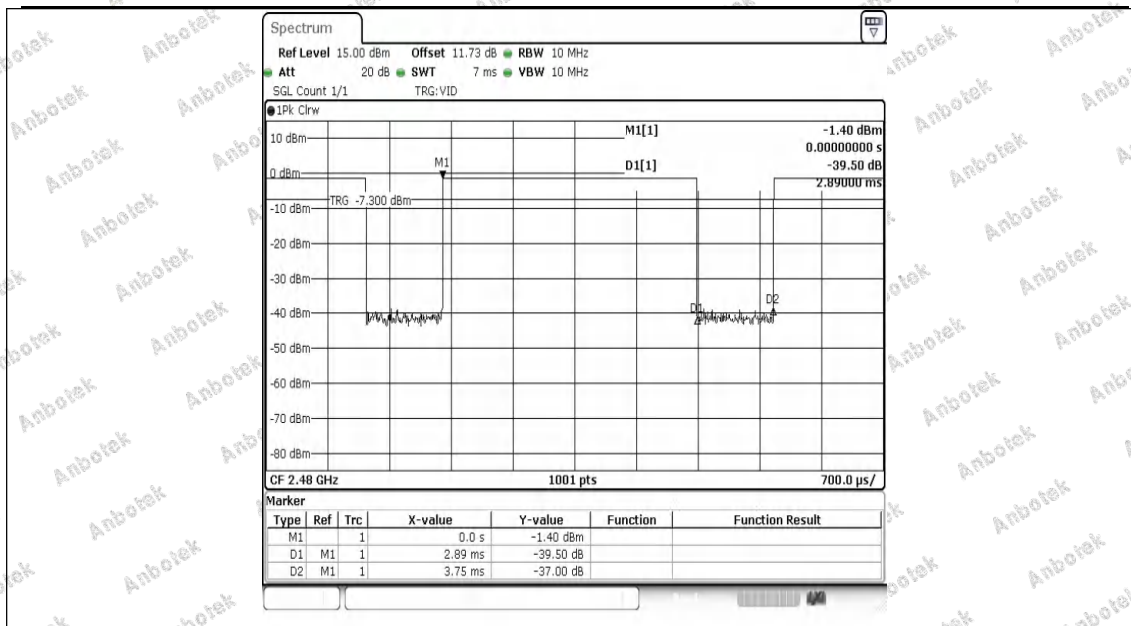


NTNV-DH5-Ant1-2402

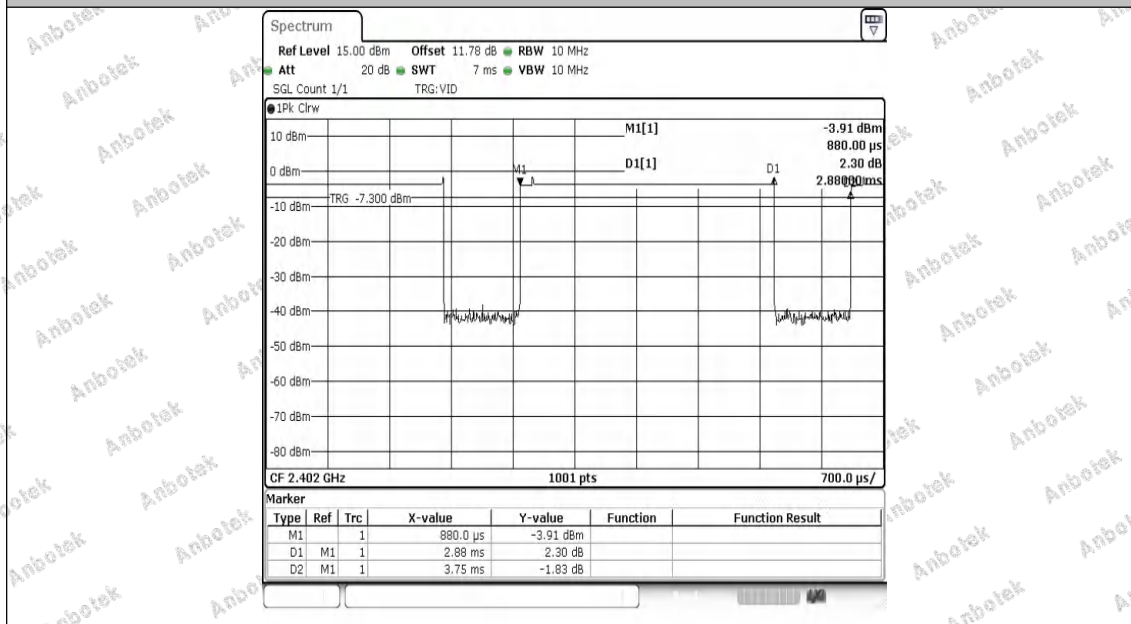


NTNV-DH5-Ant1-2441



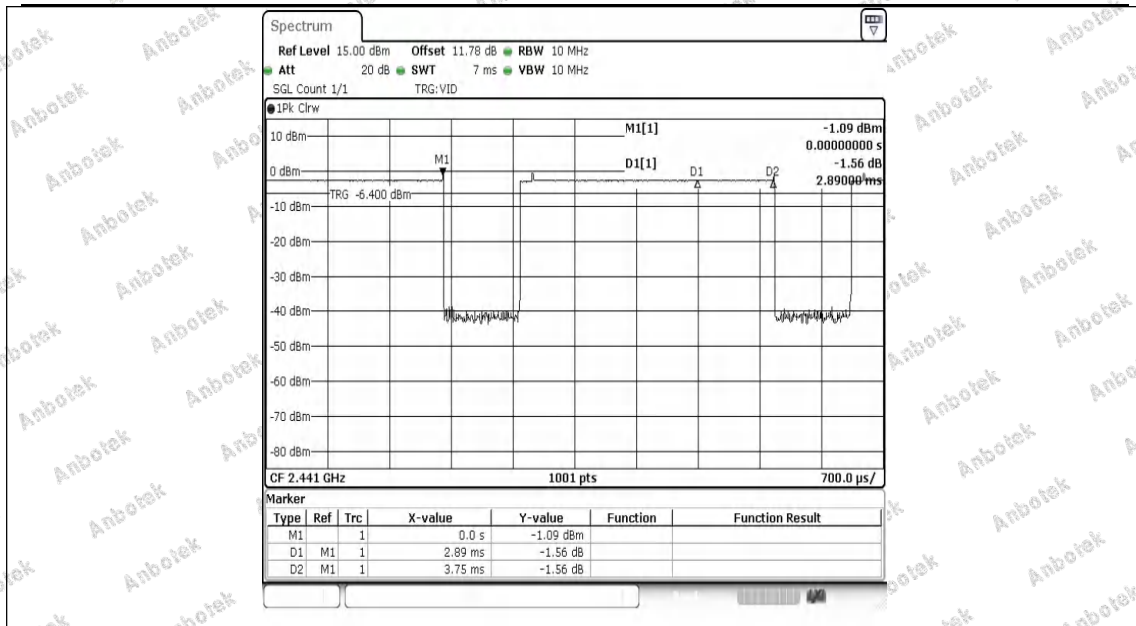


NTNV-DH5-Ant1-2480

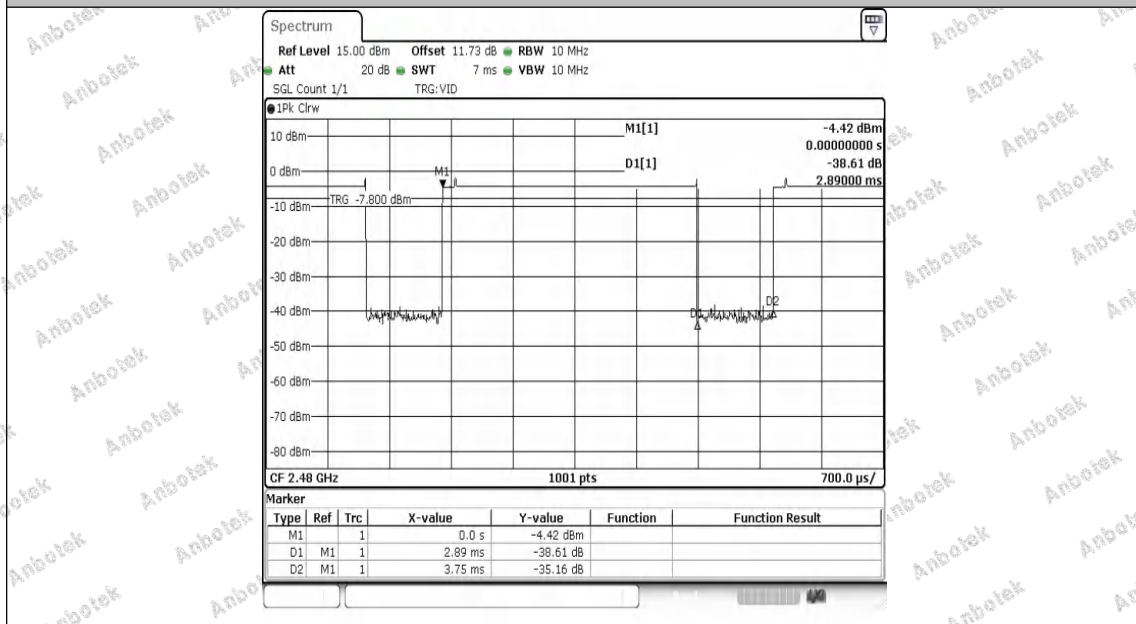


NTNV-2DH5-Ant1-2402



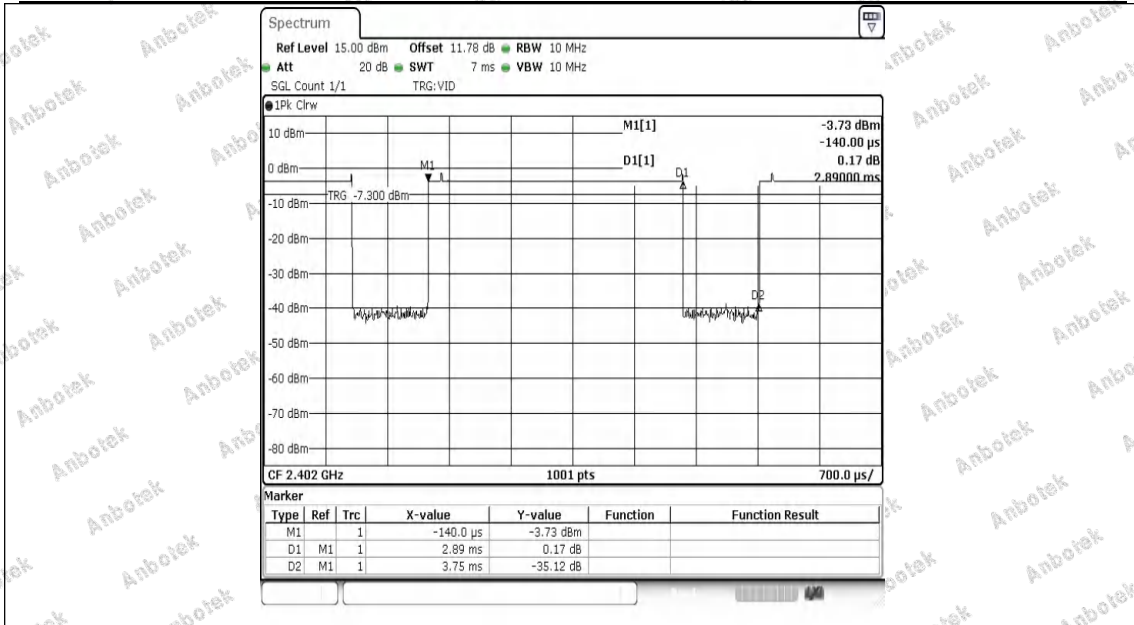


NTNV-2DH5-Ant1-2441

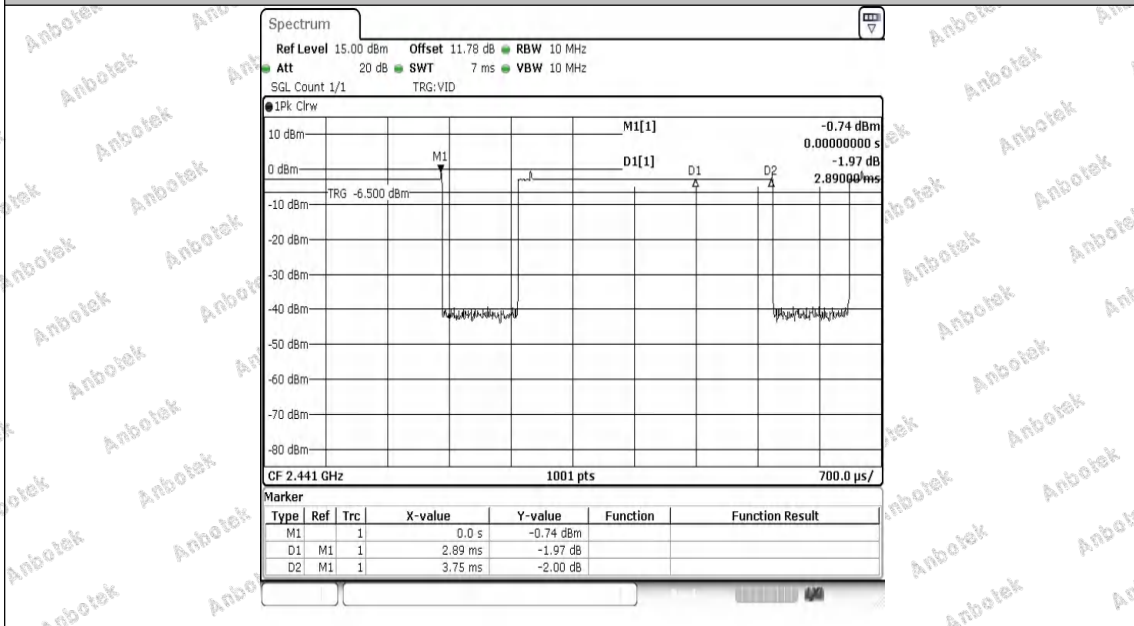


NTNV-2DH5-Ant1-2480





NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



