

## **Appendix RF Test Data for 5GWIFI**

**FCC ID** : 2BRTI-SC01

**Company** : Dingxin Electrical Appliance (Shenzhen) Co., Ltd

**EUT** : selfie screen

**Model Number** : SC01

**Report No.** : CTA25072500402

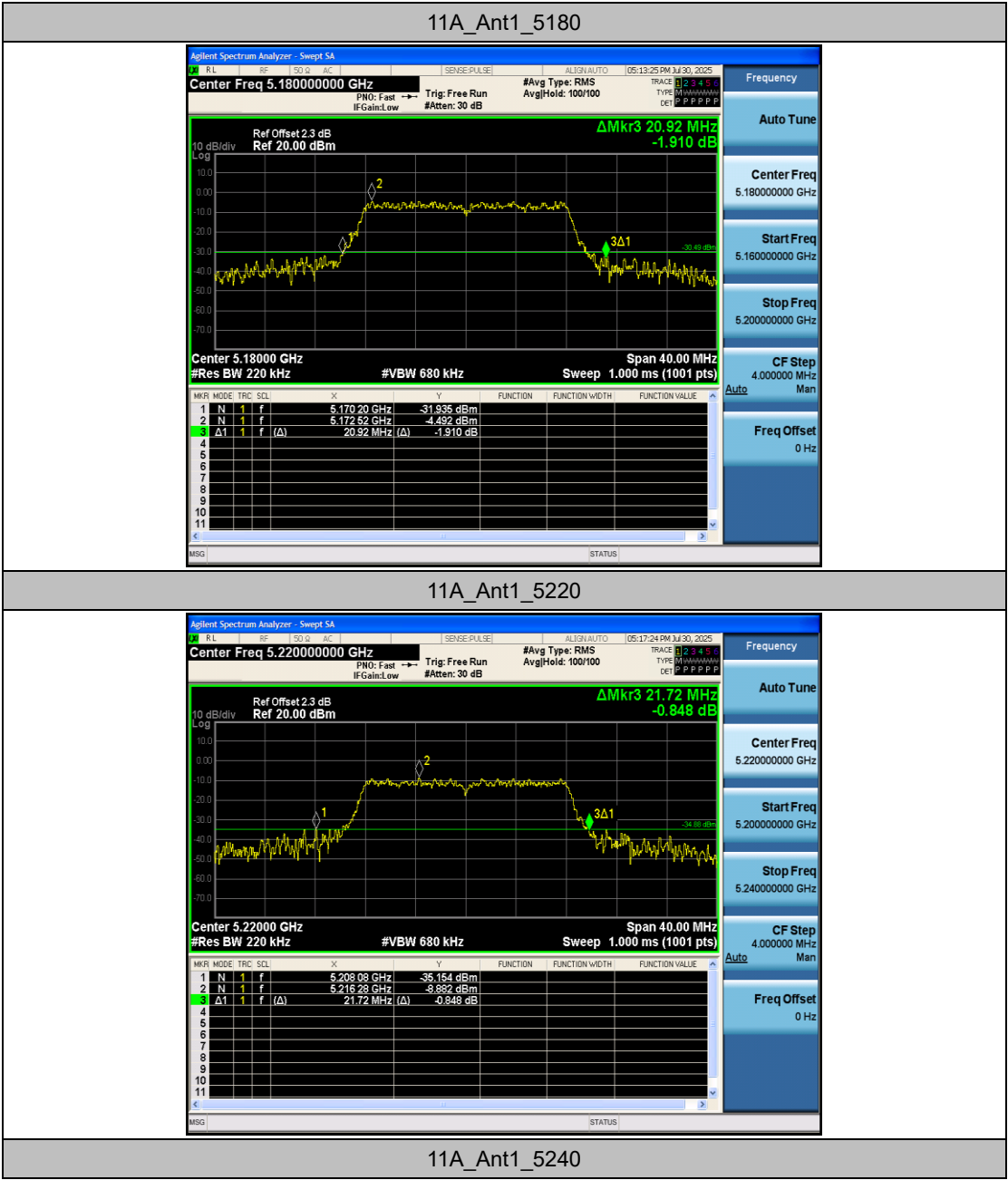
**Reviewed By** : Eric Wang

## Appendix A1: Emission Bandwidth

### Test Result

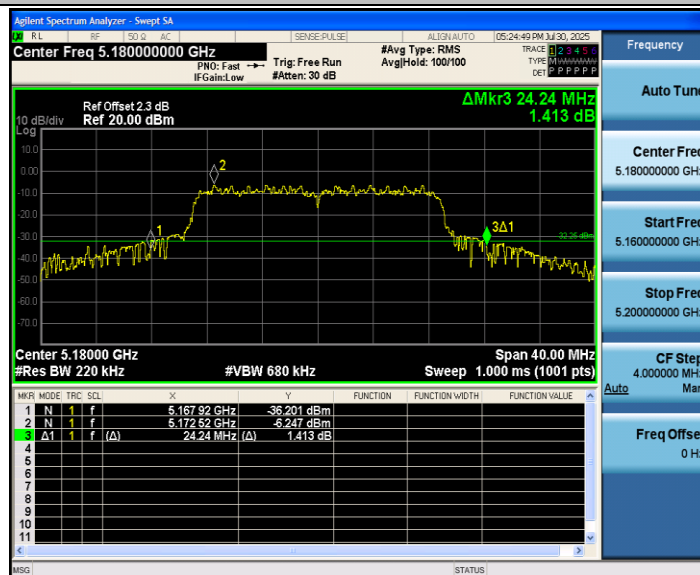
| TestMode  | Antenna | Freq(MHz) | 26db EBW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|-----------|-------------------|----------|----------|------------|---------|
| 11A       | Ant1    | 5180      | 20.920            | 5170.200 | 5191.120 | ---        | ---     |
|           |         | 5220      | 21.720            | 5208.080 | 5229.800 | ---        | ---     |
|           |         | 5240      | 22.960            | 5226.800 | 5249.760 | ---        | ---     |
| 11N20SISO | Ant1    | 5180      | 24.240            | 5167.920 | 5192.160 | ---        | ---     |
|           |         | 5220      | 24.680            | 5207.760 | 5232.440 | ---        | ---     |
|           |         | 5240      | 25.120            | 5227.000 | 5252.120 | ---        | ---     |
| 11N40SISO | Ant1    | 5190      | 51.360            | 5162.880 | 5214.240 | ---        | ---     |
|           |         | 5230      | 42.720            | 5208.800 | 5251.520 | ---        | ---     |

Test Graphs





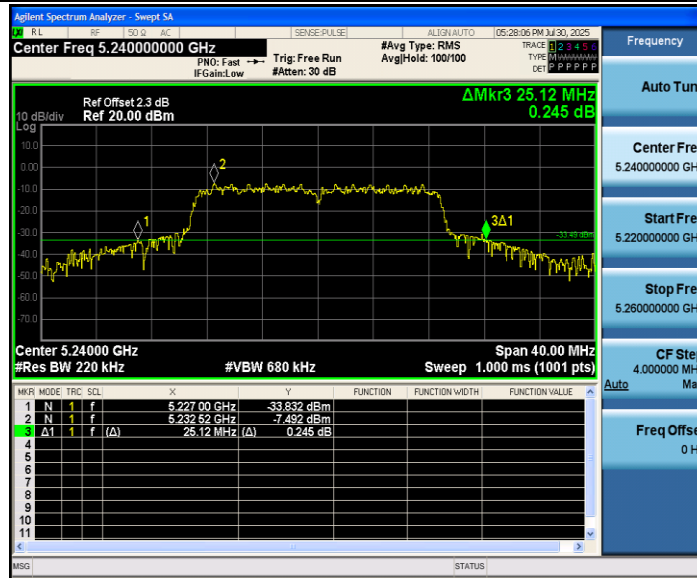
11N20SISO\_Ant1\_5180



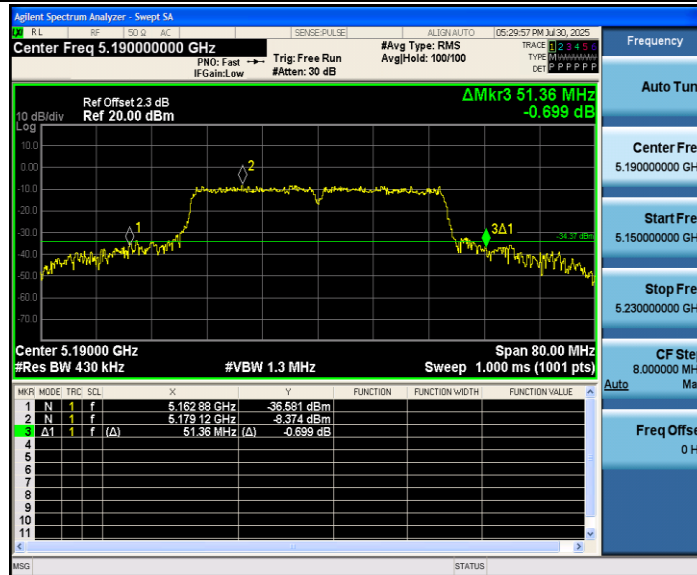
11N20SISO\_Ant1\_5220



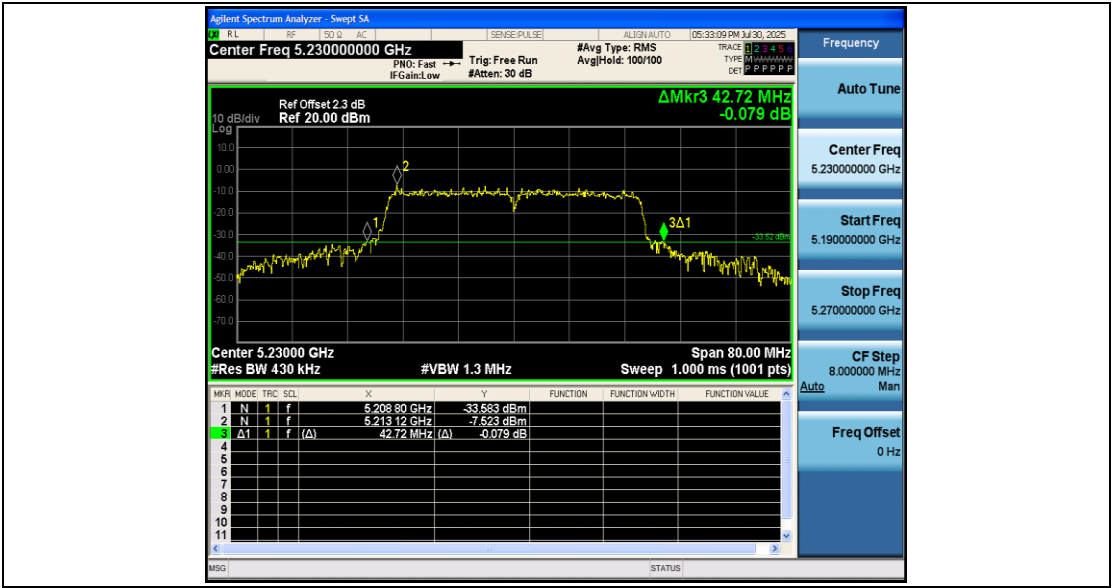
# 11N20SISO\_Ant1\_5240



# 11N40SISO\_Ant1\_5190



# 11N40SISO\_Ant1\_5230

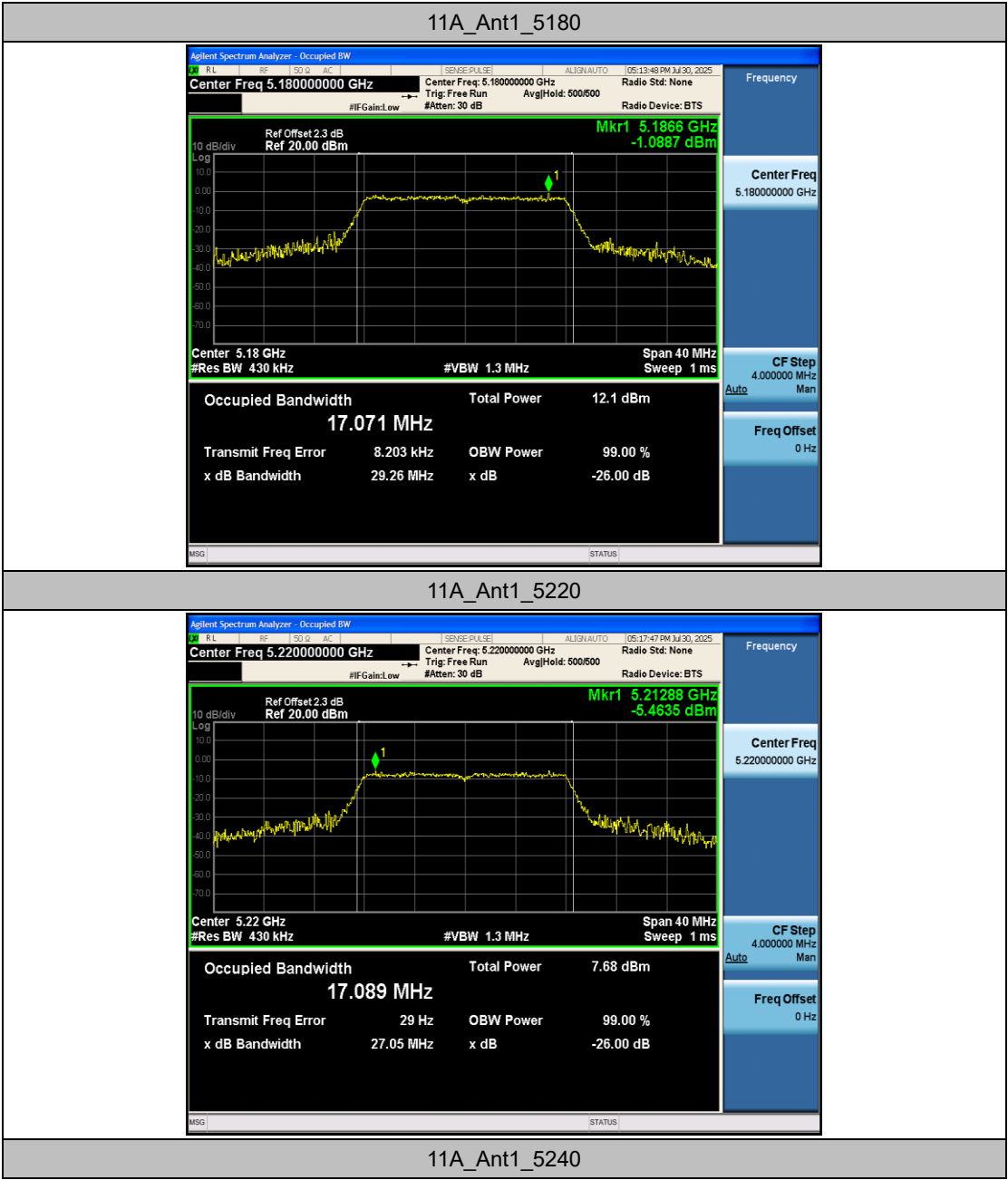


## Appendix A2: Occupied channel bandwidth

### Test Result

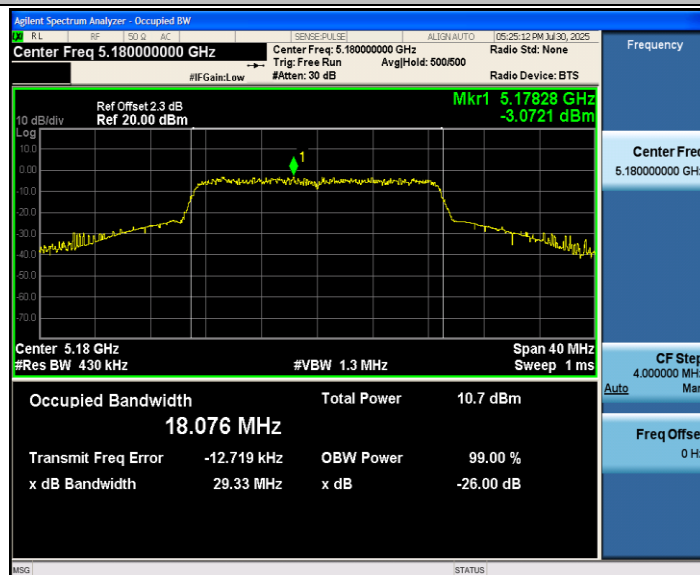
| TestMode  | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|-----------|-----------|-----------|-----------|------------|---------|
| 11A       | Ant1    | 5180      | 17.071    | 5171.4727 | 5188.5437 | ---        | ---     |
|           |         | 5220      | 17.089    | 5211.4555 | 5228.5445 | ---        | ---     |
|           |         | 5240      | 17.061    | 5231.4529 | 5248.5139 | ---        | ---     |
| 11N20SISO | Ant1    | 5180      | 18.076    | 5170.9493 | 5189.0253 | ---        | ---     |
|           |         | 5220      | 18.040    | 5210.9793 | 5229.0193 | ---        | ---     |
|           |         | 5240      | 18.060    | 5230.9591 | 5249.0191 | ---        | ---     |
| 11N40SISO | Ant1    | 5190      | 36.432    | 5171.7866 | 5208.2186 | ---        | ---     |
|           |         | 5230      | 36.379    | 5211.8172 | 5248.1962 | ---        | ---     |

Test Graphs

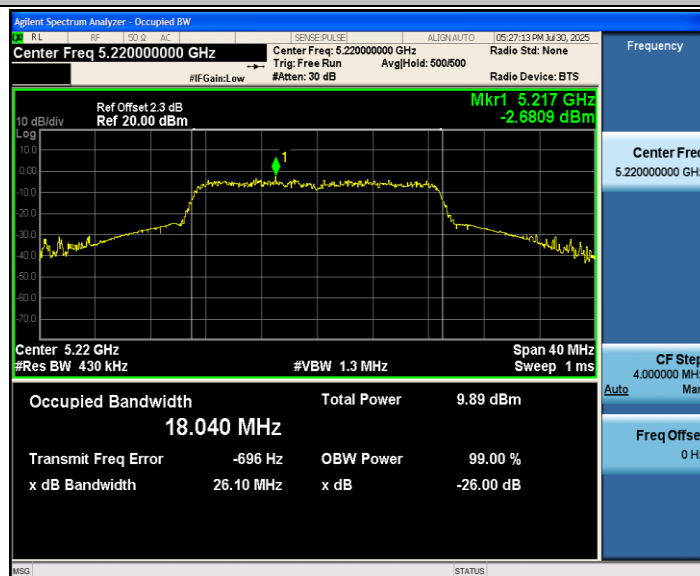




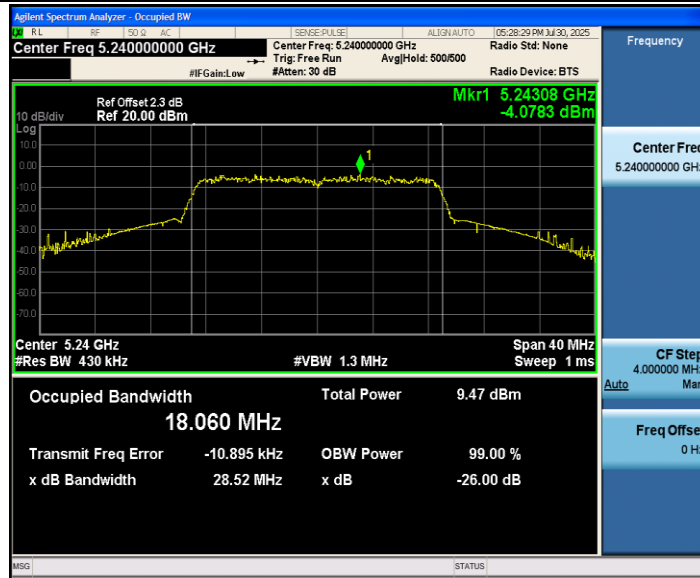
11N20SISO\_Ant1\_5180



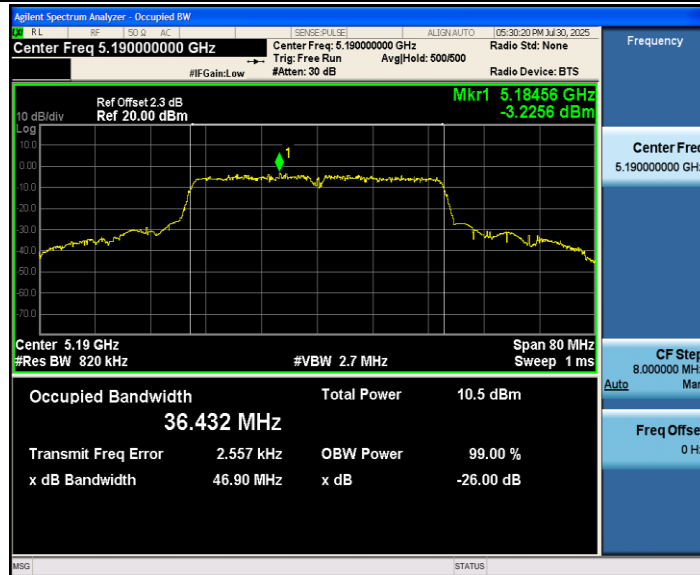
11N20SISO\_Ant1\_5220



# 11N20SISO\_Ant1\_5240



# 11N40SISO\_Ant1\_5190



# 11N40SISO\_Ant1\_5230

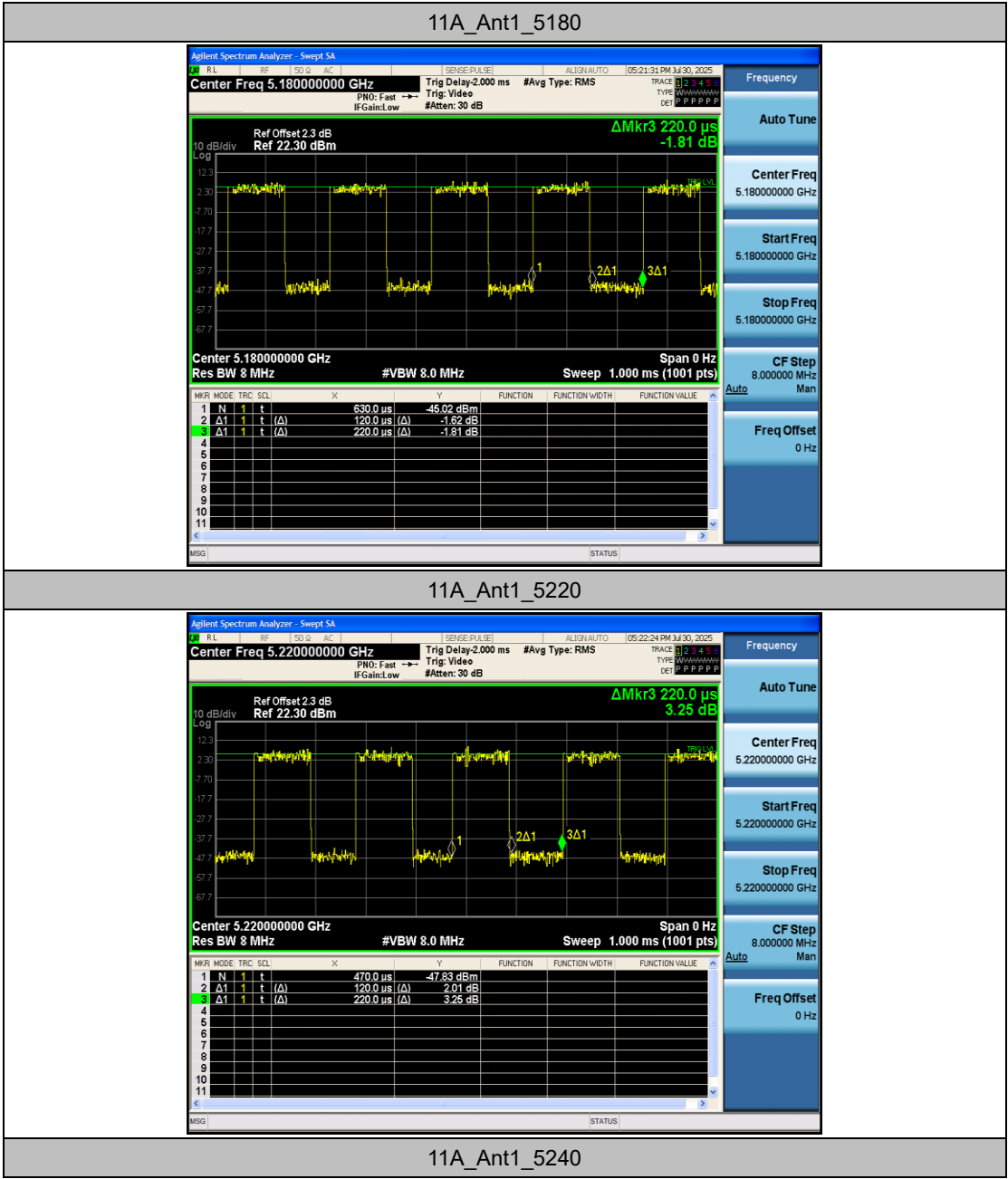


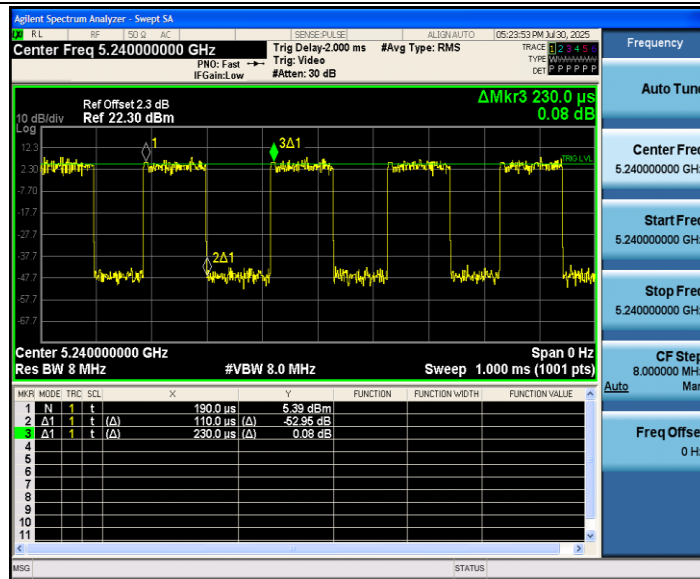
## Appendix B: Duty Cycle

### Test Result

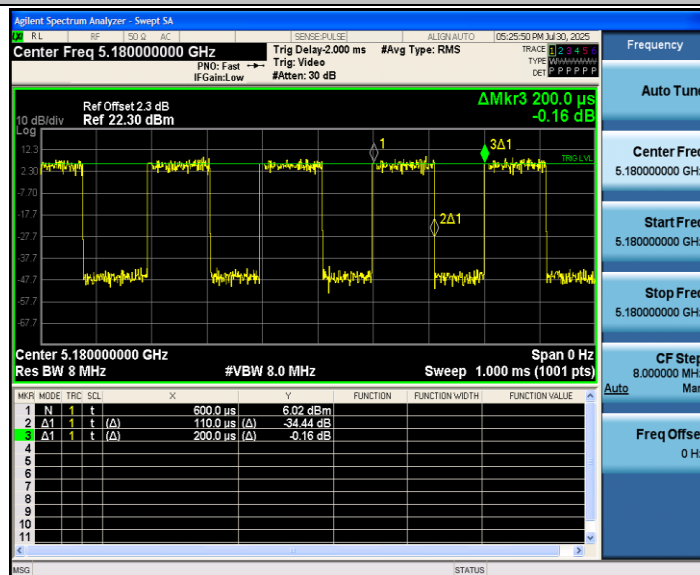
| TestMode  | Antenna | Freq(MHz) | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty<br>Cycle<br>[%] | Duty<br>factor(dB) | Limit | Verdict |
|-----------|---------|-----------|-------------------------------|-----------------------------|----------------------|--------------------|-------|---------|
| 11A       | Ant1    | 5180      | 0.12                          | 0.22                        | 54.55                | 2.63               | ---   | ---     |
|           |         | 5220      | 0.12                          | 0.22                        | 54.55                | 2.63               | ---   | ---     |
|           |         | 5240      | 0.11                          | 0.23                        | 47.83                | 3.20               | ---   | ---     |
| 11N20SISO | Ant1    | 5180      | 0.11                          | 0.20                        | 55.00                | 2.60               | ---   | ---     |
|           |         | 5220      | 0.11                          | 0.22                        | 50.00                | 3.01               | ---   | ---     |
|           |         | 5240      | 0.11                          | 0.22                        | 50.00                | 3.01               | ---   | ---     |
| 11N40SISO | Ant1    | 5190      | 0.08                          | 0.22                        | 36.36                | 4.39               | ---   | ---     |
|           |         | 5230      | 0.07                          | 0.19                        | 36.84                | 4.34               | ---   | ---     |

# Test Graphs

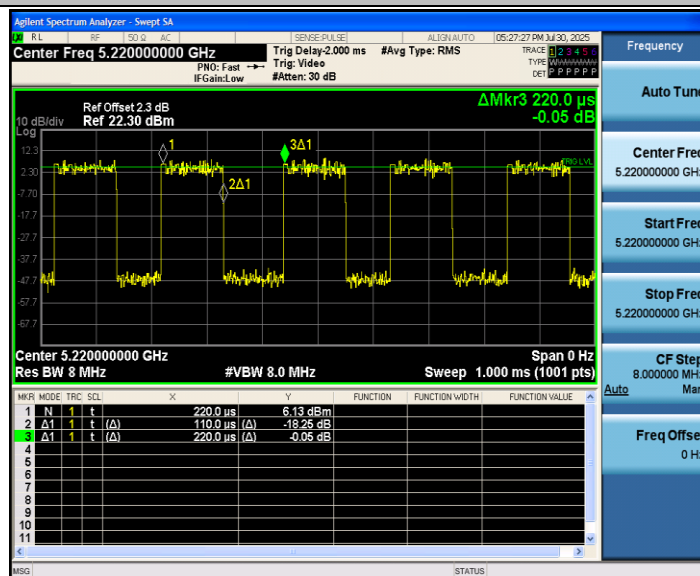




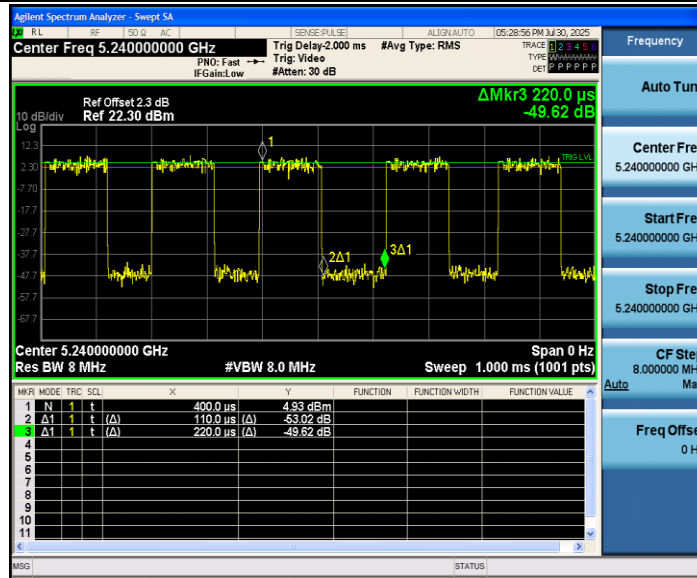
11N20SISO\_Ant1\_5180



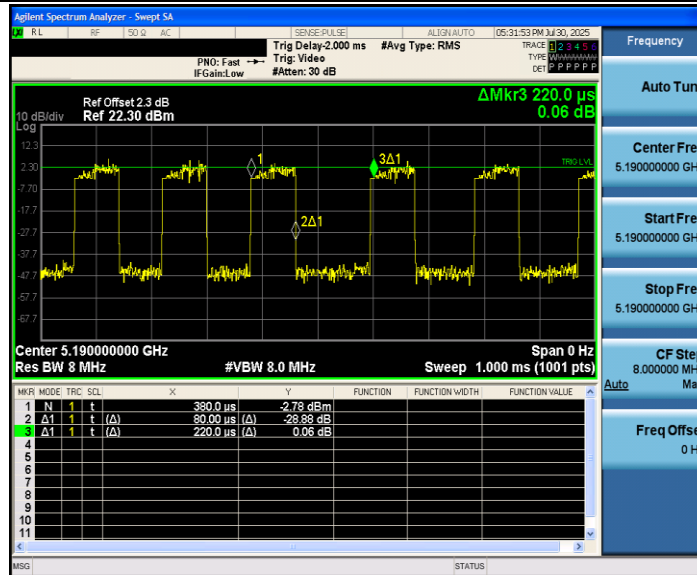
11N20SISO\_Ant1\_5220



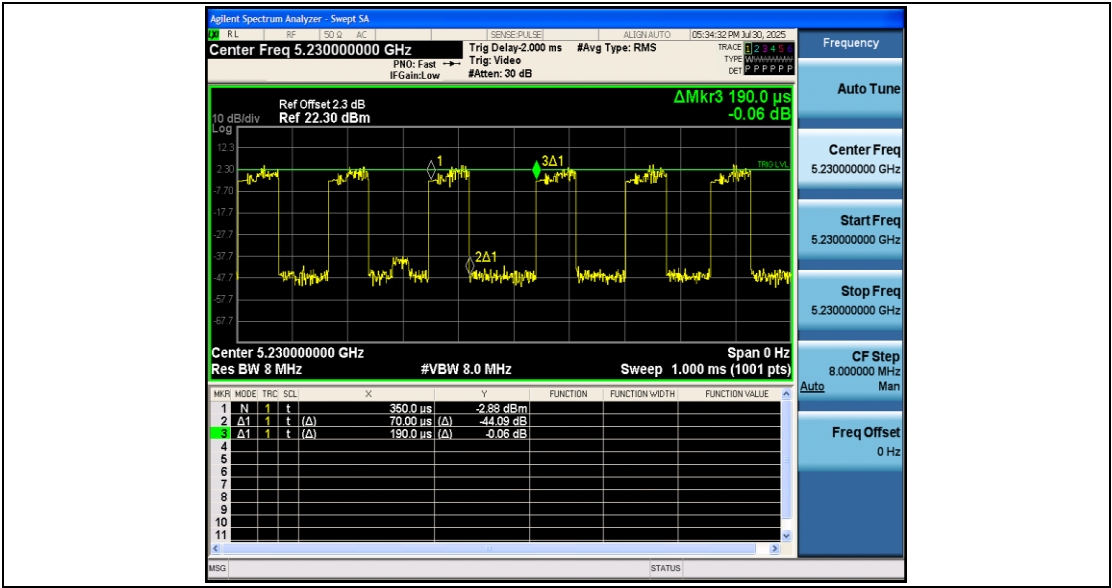
# 11N20SISO\_Ant1\_5240



# 11N40SISO\_Ant1\_5190



# 11N40SISO\_Ant1\_5230



## Appendix C: Maximum conducted output power

### Test Result Channel Power

| Test Mode | Antenna | Freq(MHz) | Channel Power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Gain [dBi] | Verdict |
|-----------|---------|-----------|---------------------|----------------|-----------------|--------------|-------------|------------|---------|
| 11A       | Ant1    | 5180      | 0.04                | 54.55          | 2.63            | 2.67         | ≤23.98      | 0.00       | PASS    |
|           |         | 5220      | 0.42                | 54.55          | 2.63            | 3.05         | ≤23.98      | 0.00       | PASS    |
|           |         | 5240      | -0.09               | 47.83          | 3.20            | 3.11         | ≤23.98      | 0.00       | PASS    |
| 11N20SISO | Ant1    | 5180      | 1.01                | 55.00          | 2.60            | 3.61         | ≤23.98      | 0.00       | PASS    |
|           |         | 5220      | 0.32                | 50.00          | 3.01            | 3.33         | ≤23.98      | 0.00       | PASS    |
|           |         | 5240      | -0.22               | 50.00          | 3.01            | 2.79         | ≤23.98      | 0.00       | PASS    |
| 11N40SISO | Ant1    | 5190      | -0.75               | 36.36          | 4.39            | 3.64         | ≤23.98      | 0.00       | PASS    |
|           |         | 5230      | -1.65               | 36.84          | 4.34            | 2.69         | ≤23.98      | 0.00       | PASS    |

## Appendix D: Maximum power spectral density

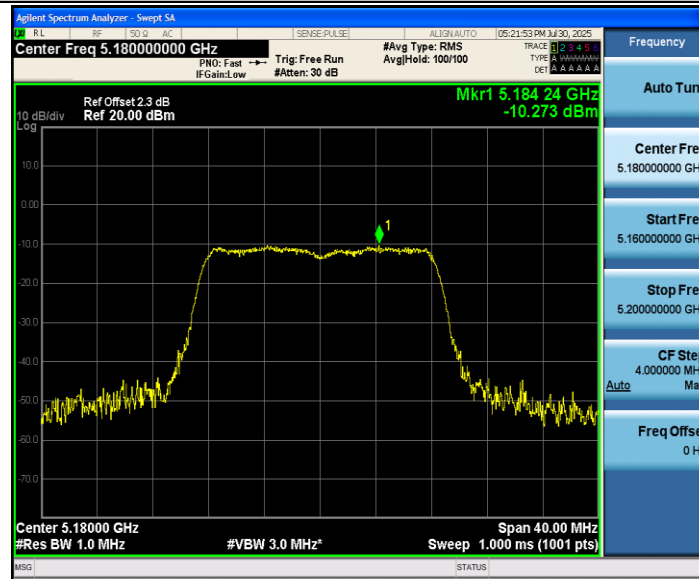
### Test Result

| TestMode  | Antenna | Freq(MHz) | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|-----------|---------|-----------|------------------|----------------|---------|
| 11A       | Ant1    | 5180      | -7.64            | ≤11.00         | PASS    |
|           |         | 5220      | -7.29            | ≤11.00         | PASS    |
|           |         | 5240      | -7.56            | ≤11.00         | PASS    |
| 11N20SISO | Ant1    | 5180      | -7.06            | ≤11.00         | PASS    |
|           |         | 5220      | -7.27            | ≤11.00         | PASS    |
|           |         | 5240      | -7.66            | ≤11.00         | PASS    |
| 11N40SISO | Ant1    | 5190      | -9.64            | ≤11.00         | PASS    |
|           |         | 5230      | -10.60           | ≤11.00         | PASS    |

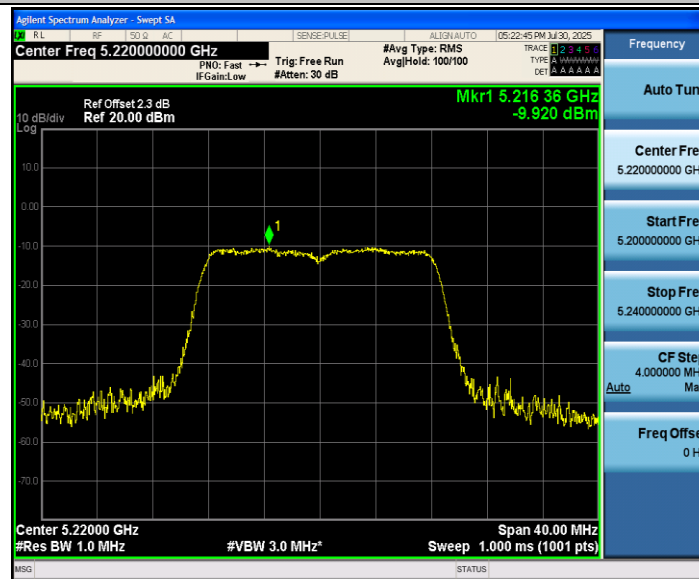
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.  
2.The Duty Cycle Factor is compensated in the graph.

## Test Graphs

11A\_Ant1\_5180



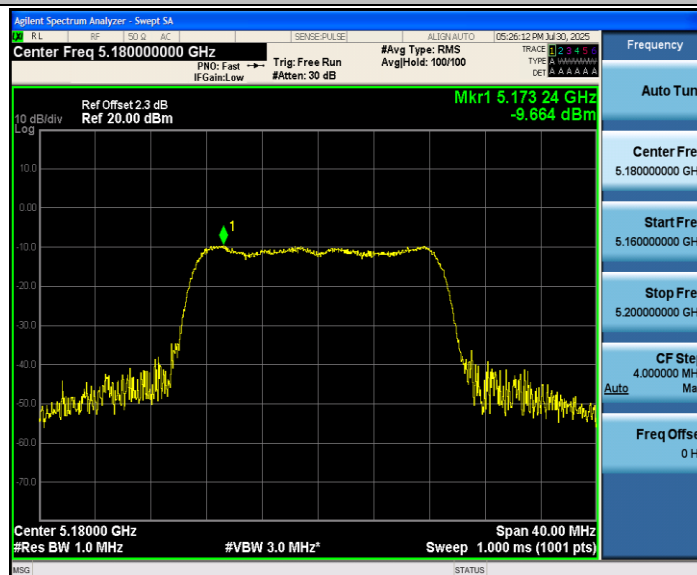
11A\_Ant1\_5220



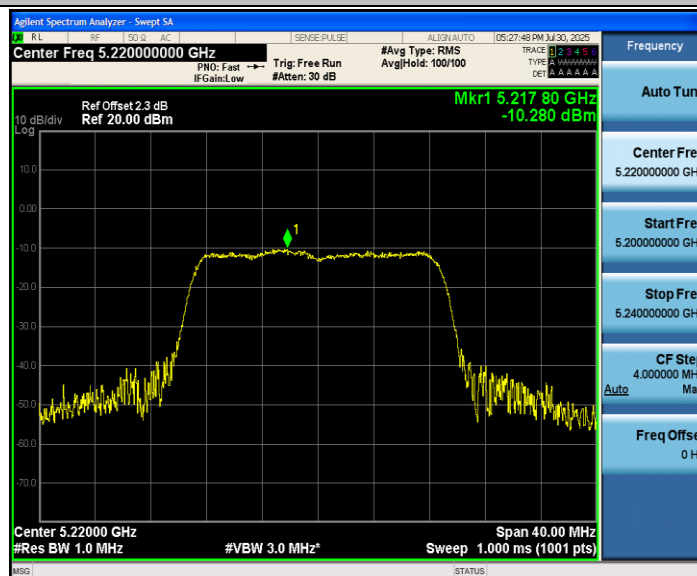
11A\_Ant1\_5240



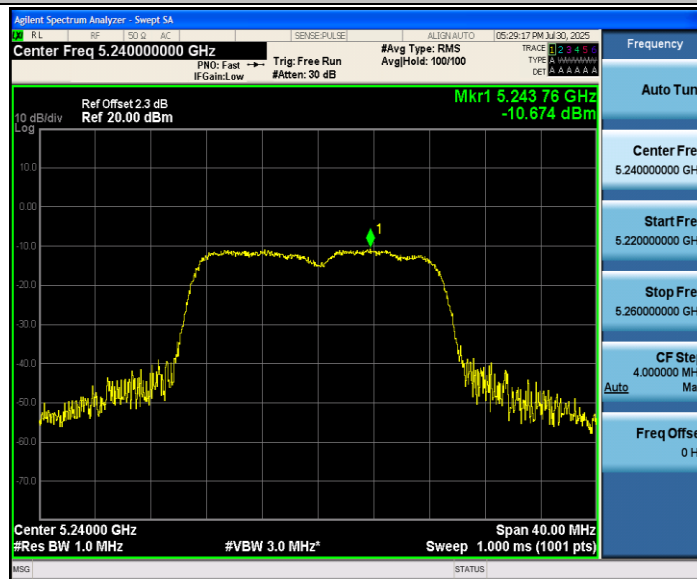
11N20SISO\_Ant1\_5180



11N20SISO\_Ant1\_5220



# 11N20SISO\_Ant1\_5240



# 11N40SISO\_Ant1\_5190



# 11N40SISO\_Ant1\_5230

