

|                                                       |                                          |
|-------------------------------------------------------|------------------------------------------|
| <b>Case No. :</b> <u>CTA24080500102</u>               |                                          |
| <b>Ambient Condition:</b> <u>22</u> °C, <u>52</u> %RH |                                          |
| <b>According Standard:</b> <u>■Part15E</u>            |                                          |
| <b>Test Date:</b> <u>2024.8.9</u>                     | <b>Test Engineer:</b> <u>Lushan Kong</u> |

## Appendix B.1: Emission Bandwidth

### Test Result

| TestMode   | Antenna | Freq(MHz) | 26db EBW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|-----------|-------------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5180      | 20.240            | 5169.720 | 5189.960 | ---        | ---     |
|            |         | 5200      | 20.200            | 5189.760 | 5209.960 | ---        | ---     |
|            |         | 5240      | 20.240            | 5229.760 | 5250.000 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180      | 20.960            | 5169.440 | 5190.400 | ---        | ---     |
|            |         | 5200      | 20.960            | 5189.400 | 5210.360 | ---        | ---     |
|            |         | 5240      | 21.040            | 5229.360 | 5250.400 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190      | 41.680            | 5169.040 | 5210.720 | ---        | ---     |
|            |         | 5230      | 41.760            | 5208.960 | 5250.720 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180      | 21.040            | 5169.400 | 5190.440 | ---        | ---     |
|            |         | 5200      | 21.080            | 5189.320 | 5210.400 | ---        | ---     |
|            |         | 5240      | 20.960            | 5229.480 | 5250.440 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190      | 41.840            | 5169.040 | 5210.880 | ---        | ---     |
|            |         | 5230      | 41.600            | 5209.040 | 5250.640 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210      | 81.760            | 5169.520 | 5251.280 | ---        | ---     |





## 11N20SISO\_Ant1\_5240



## 11N40SISO\_Ant1\_5190



## 11N40SISO\_Ant1\_5230





11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant1\_5200



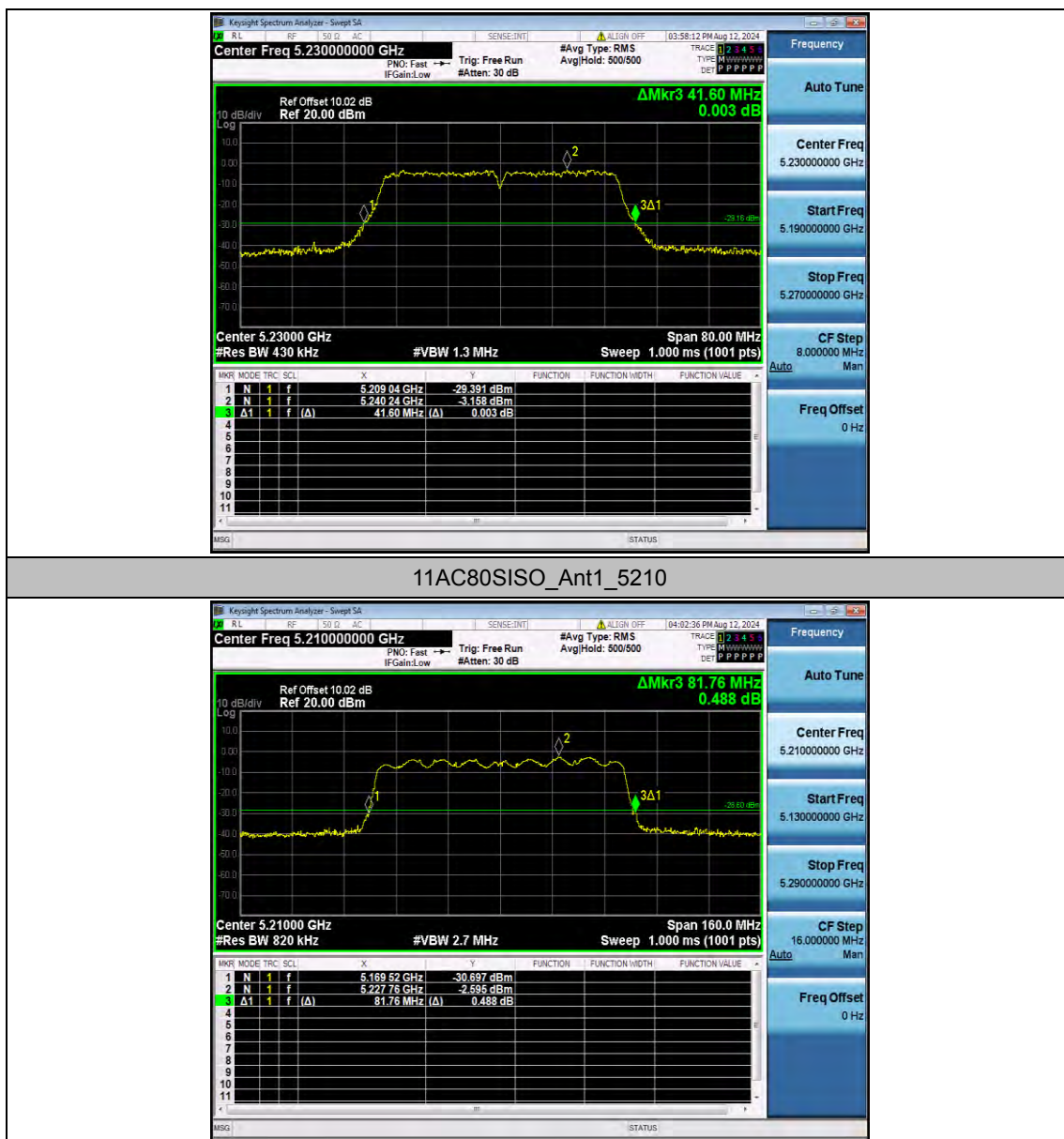
## 11AC20SISO\_Ant1\_5240



## 11AC40SISO\_Ant1\_5190



## 11AC40SISO\_Ant1\_5230



## Appendix B.2: Occupied channel bandwidth

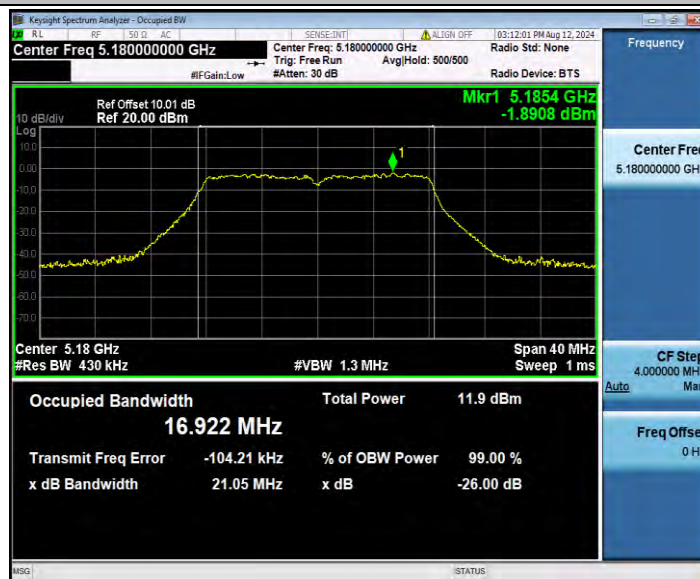
### Test Result

| TestMode   | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|------------|---------|-----------|-----------|-----------|-----------|------------|---------|
| 11A        | Ant1    | 5180      | 16.922    | 5171.4348 | 5188.3568 | ---        | ---     |
|            |         | 5200      | 16.895    | 5191.4575 | 5208.3525 | ---        | ---     |
|            |         | 5240      | 16.896    | 5231.4515 | 5248.3475 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180      | 17.864    | 5171.0330 | 5188.8970 | ---        | ---     |
|            |         | 5200      | 17.871    | 5191.0280 | 5208.8990 | ---        | ---     |
|            |         | 5240      | 17.849    | 5231.0280 | 5248.8770 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190      | 36.423    | 5171.8370 | 5208.2600 | ---        | ---     |
|            |         | 5230      | 36.437    | 5211.7884 | 5248.2254 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180      | 17.851    | 5171.0456 | 5188.8966 | ---        | ---     |
|            |         | 5200      | 17.850    | 5191.0393 | 5208.8893 | ---        | ---     |
|            |         | 5240      | 17.834    | 5231.0494 | 5248.8834 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190      | 36.396    | 5171.8729 | 5208.2689 | ---        | ---     |
|            |         | 5230      | 36.451    | 5211.8258 | 5248.2768 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210      | 75.126    | 5172.6004 | 5247.7264 | ---        | ---     |



## Test Graphs

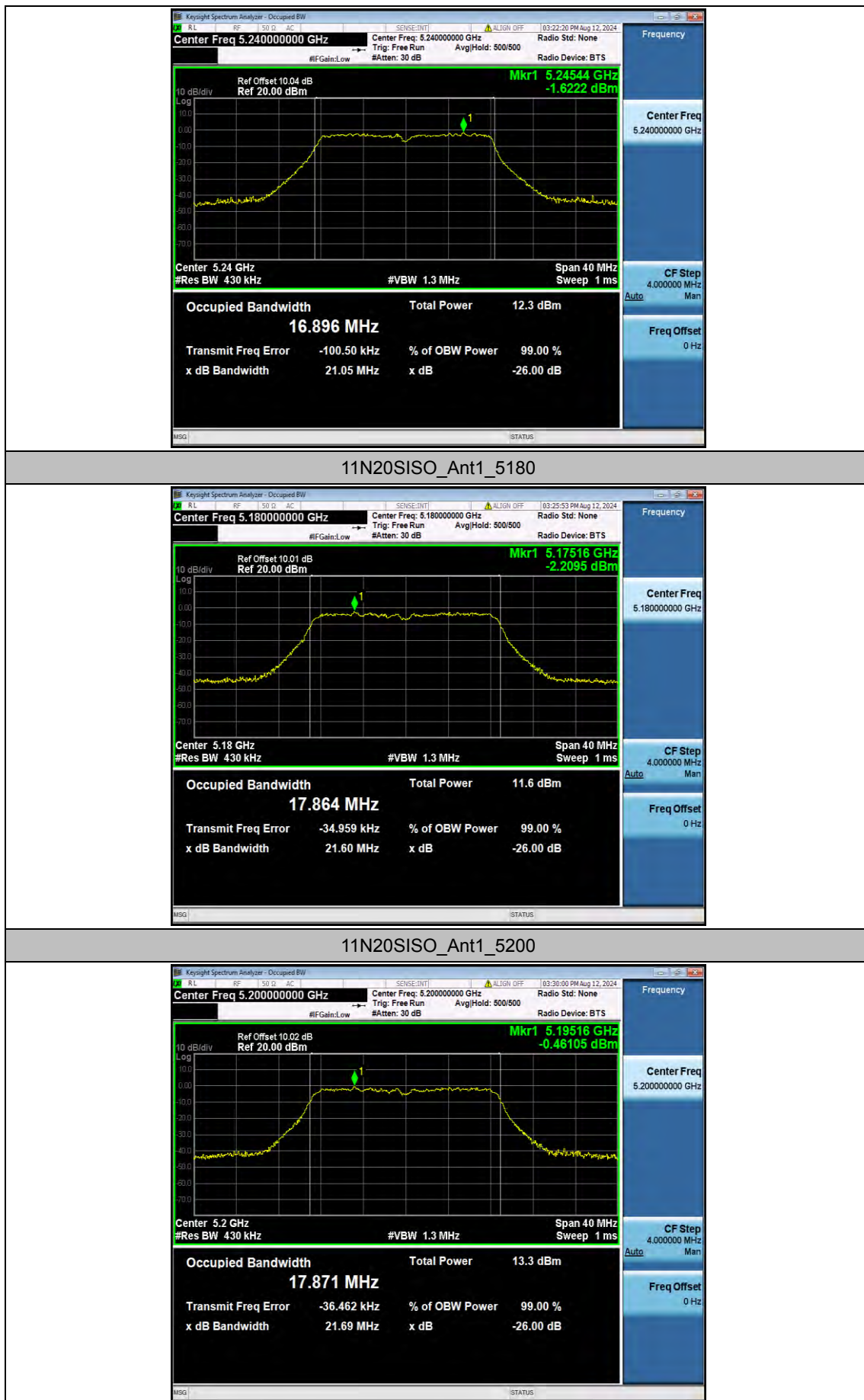
11A\_Ant1\_5180



11A\_Ant1\_5200



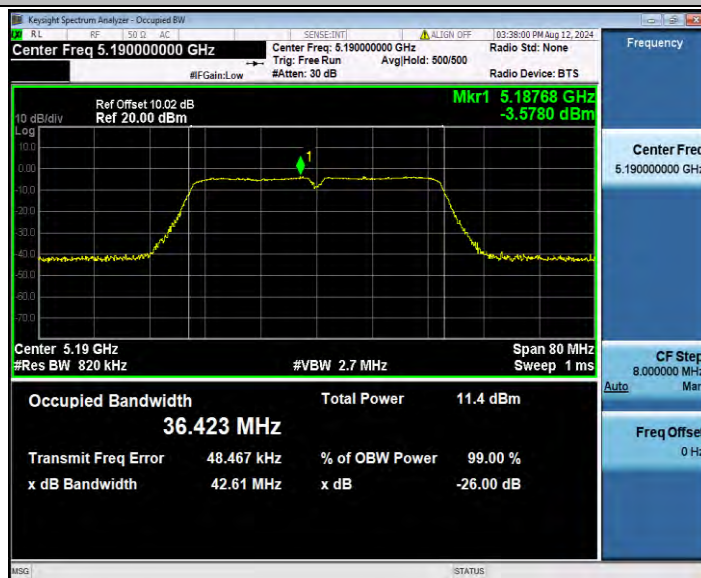
11A\_Ant1\_5240



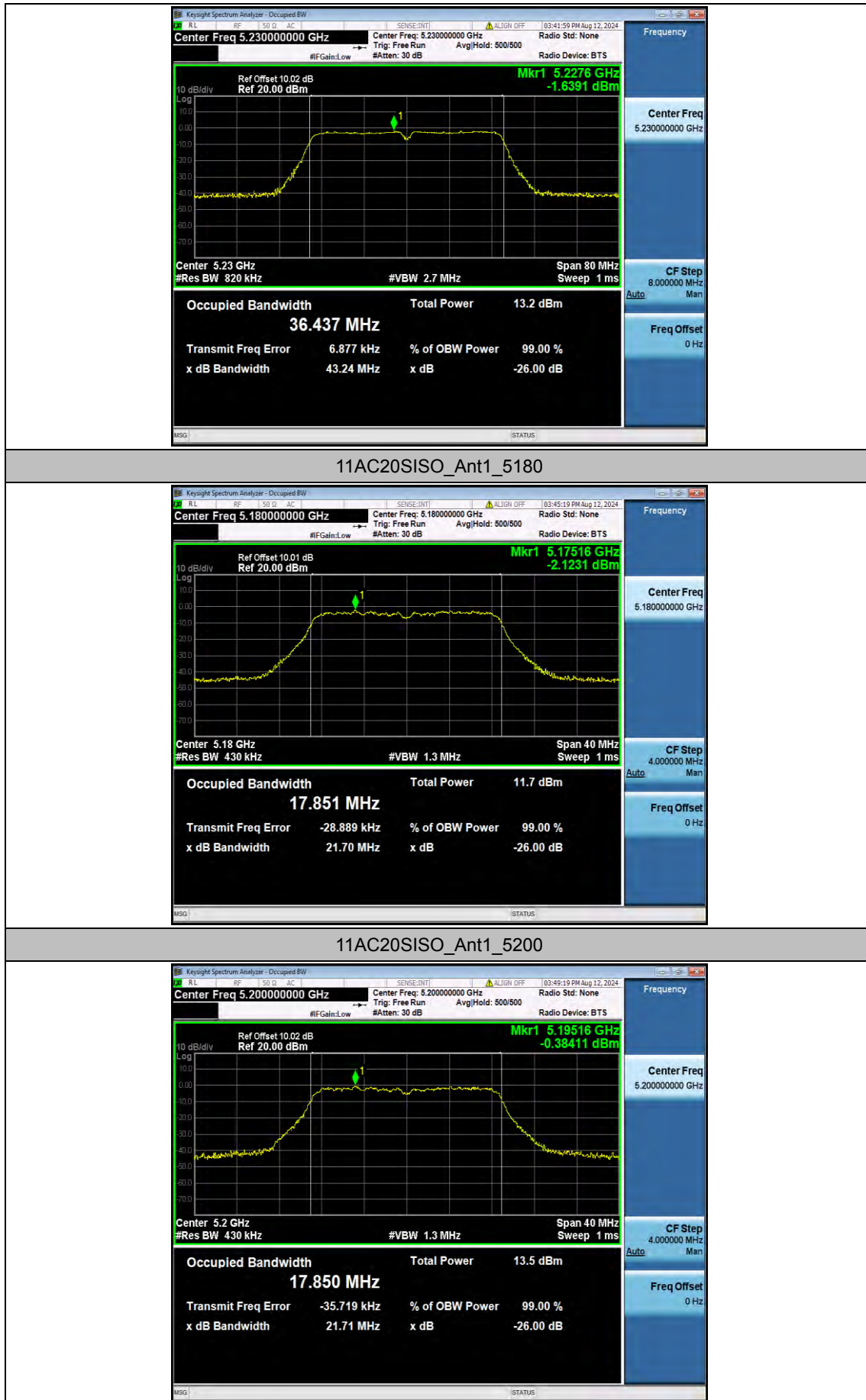
## 11N20SISO\_Ant1\_5240



## 11N40SISO\_Ant1\_5190

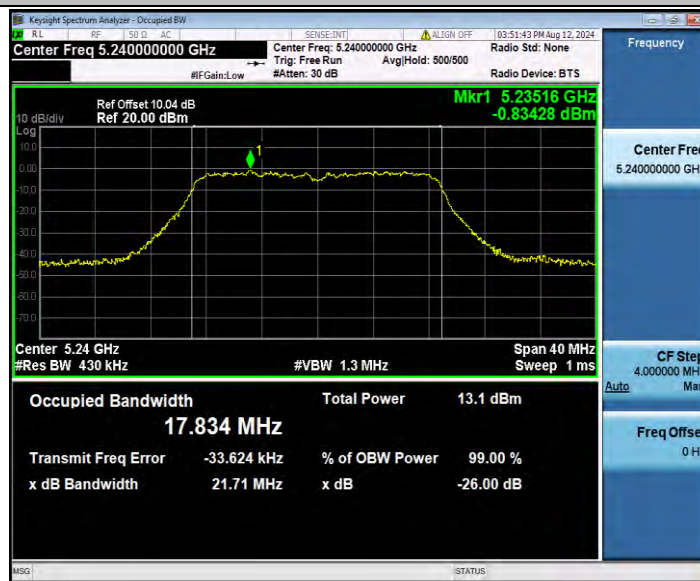


## 11N40SISO\_Ant1\_5230

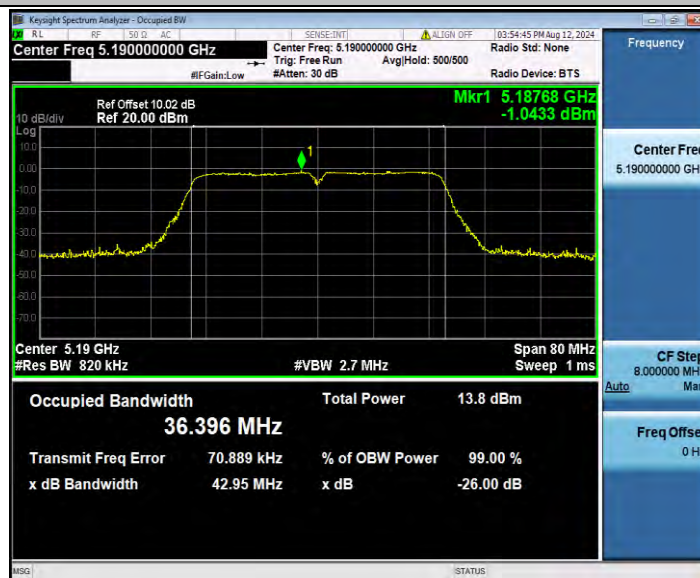




## 11AC20SISO\_Ant1\_5240

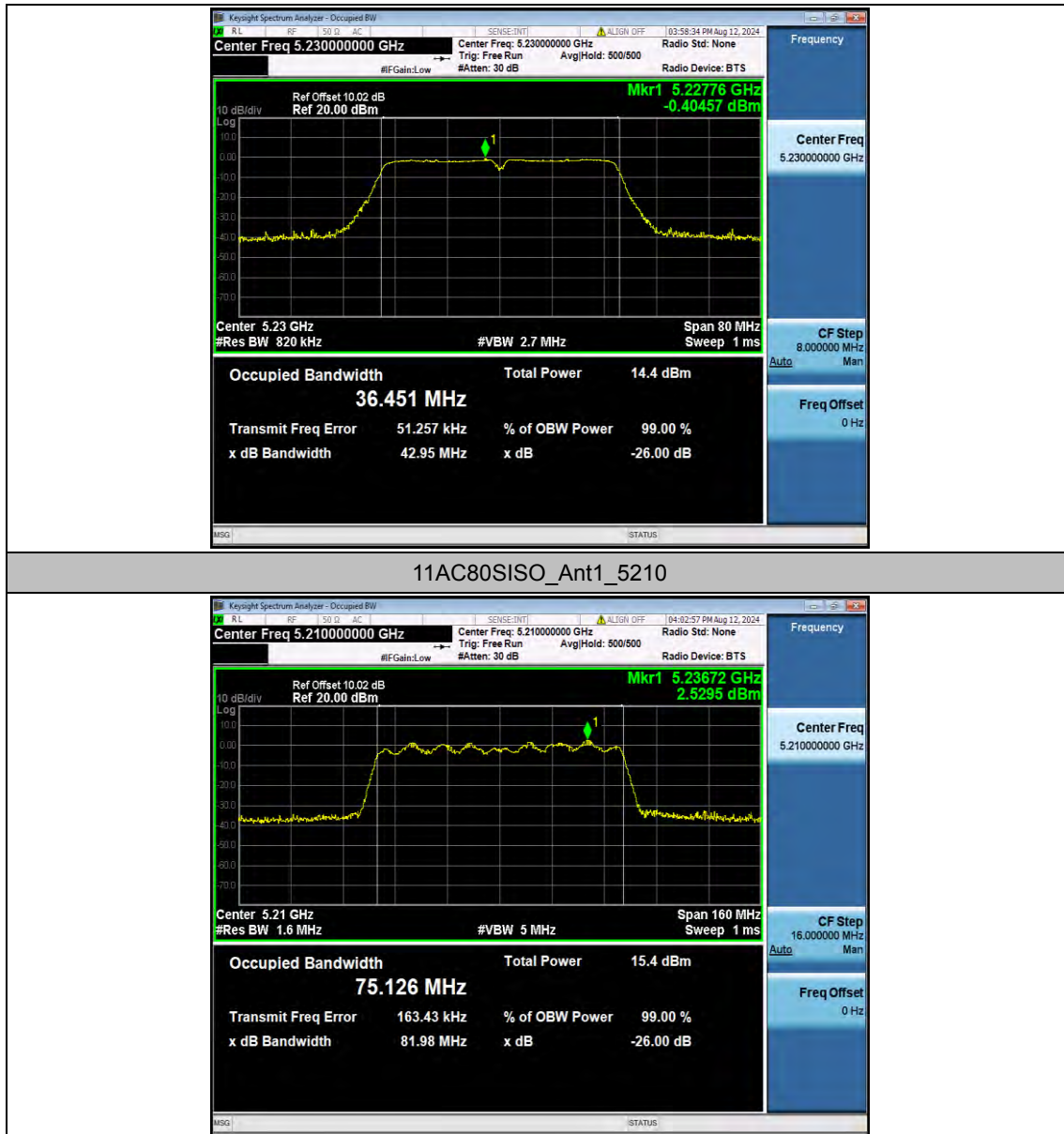


## 11AC40SISO\_Ant1\_5190



## 11AC40SISO\_Ant1\_5230





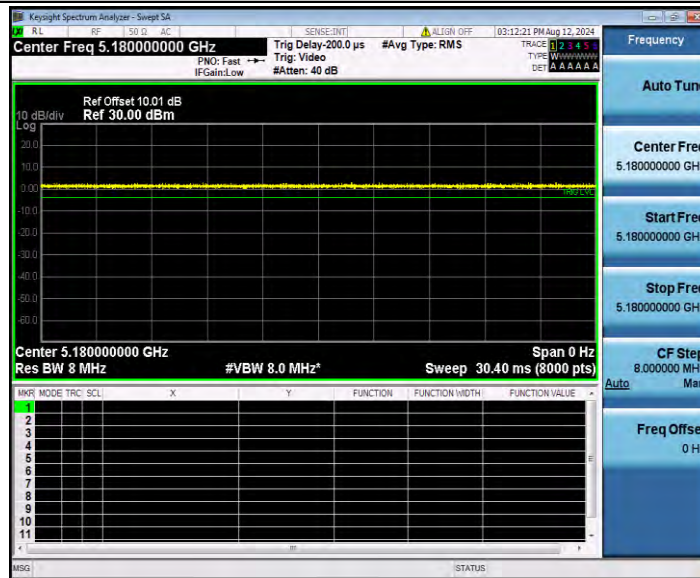
## Appendix B.3: Duty Cycle

### Test Result

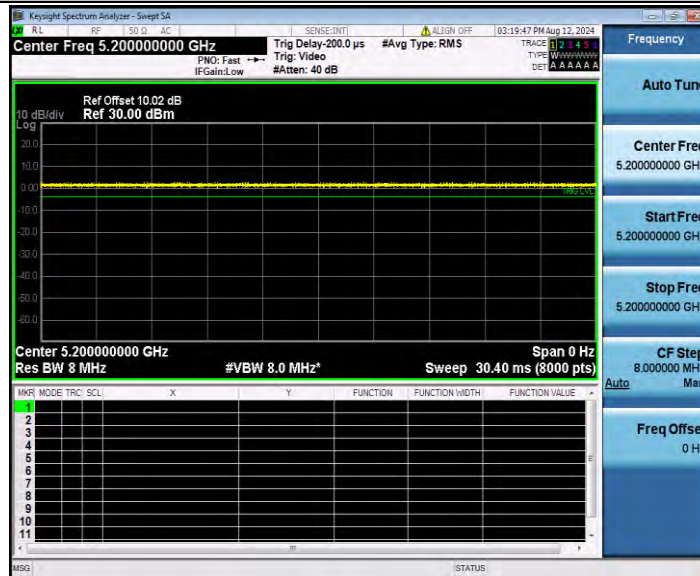
| TestMode   | Antenna | Freq(MHz) | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] | 1/T Factor[KHz] |
|------------|---------|-----------|----------------------------|--------------------------|----------------|-----------------------|-----------------|
| 11A        | Ant1    | 5180      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
|            |         | 5200      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
|            |         | 5240      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
| 11N20SISO  | Ant1    | 5180      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
|            |         | 5200      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
|            |         | 5240      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
| 11N40SISO  | Ant1    | 5190      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
|            |         | 5230      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
| 11AC20SISO | Ant1    | 5180      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
|            |         | 5200      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
|            |         | 5240      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
| 11AC40SISO | Ant1    | 5190      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
|            |         | 5230      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |
| 11AC80SISO | Ant1    | 5210      | 30.00                      | 30.00                    | 100.00         | 0.00                  | 0.03            |

## Test Graphs

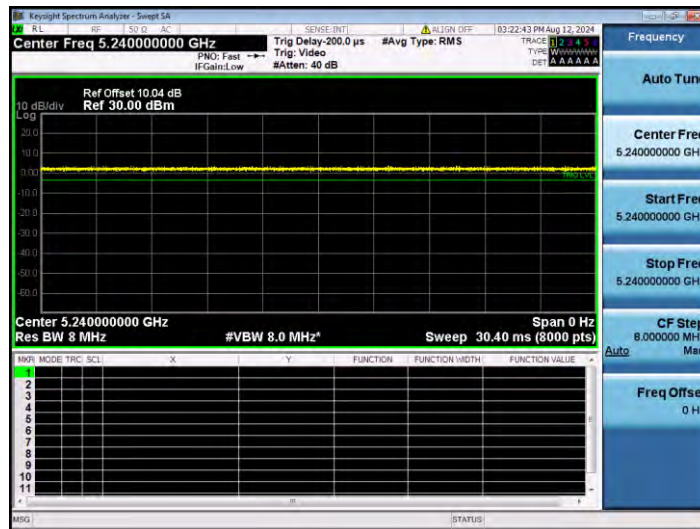
11A\_Ant1\_5180



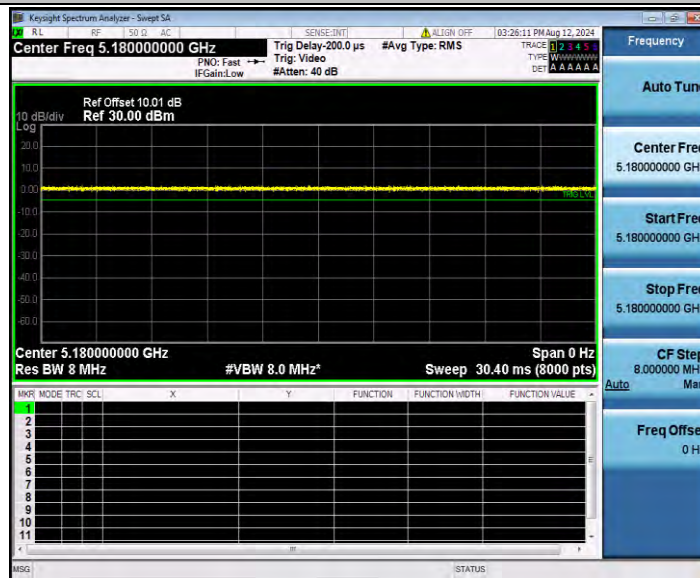
11A\_Ant1\_5200



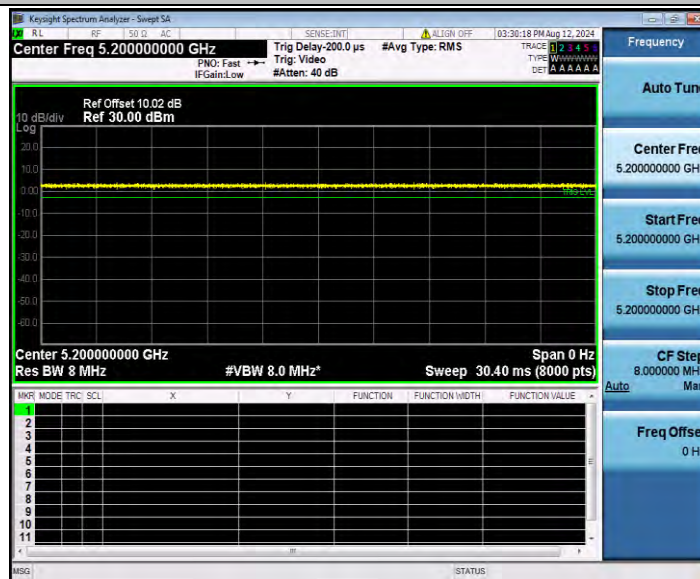
11A\_Ant1\_5240



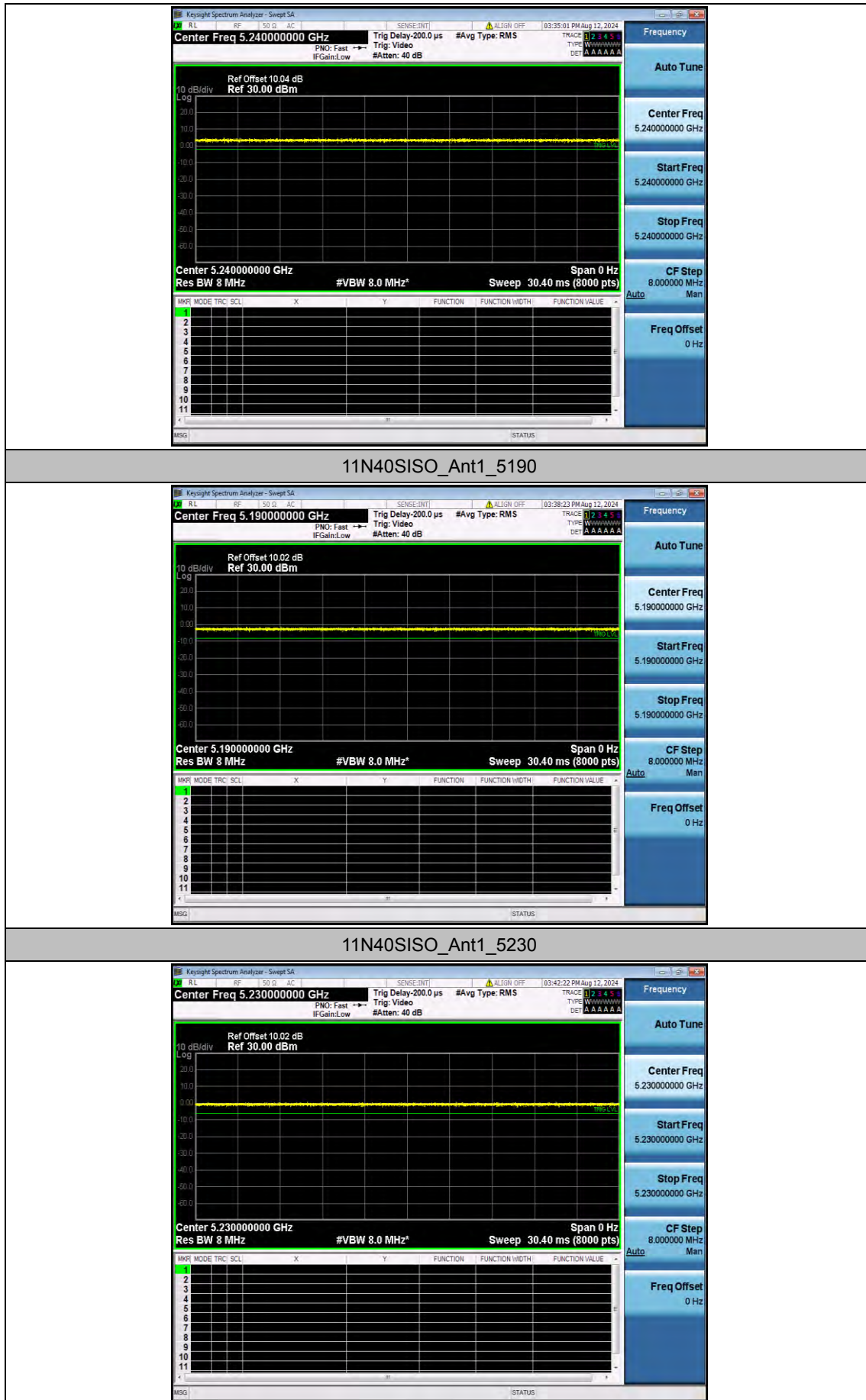
11N20SISO\_Ant1\_5180



11N20SISO\_Ant1\_5200

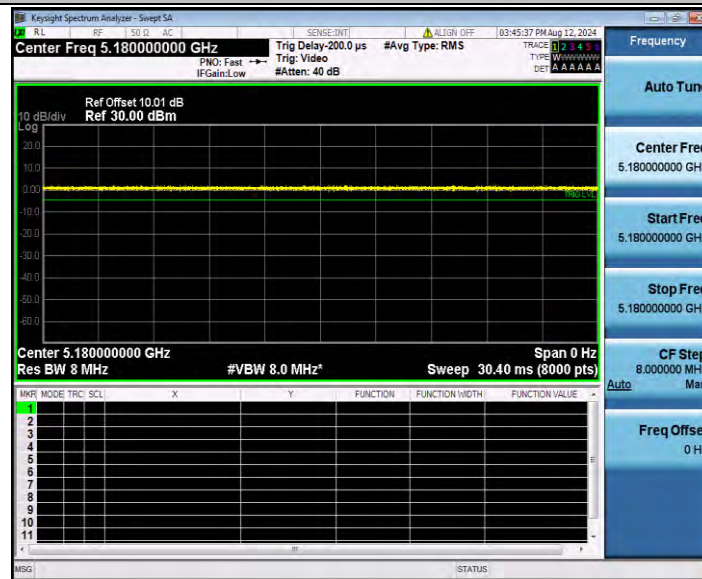


11N20SISO\_Ant1\_5240

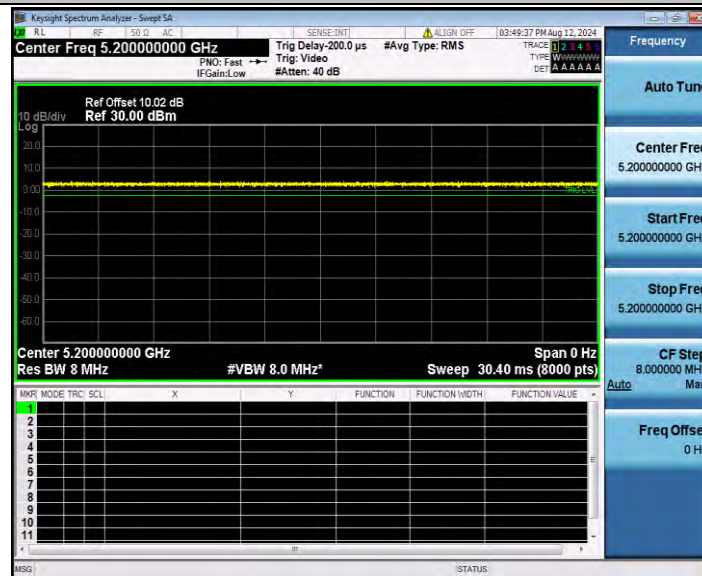




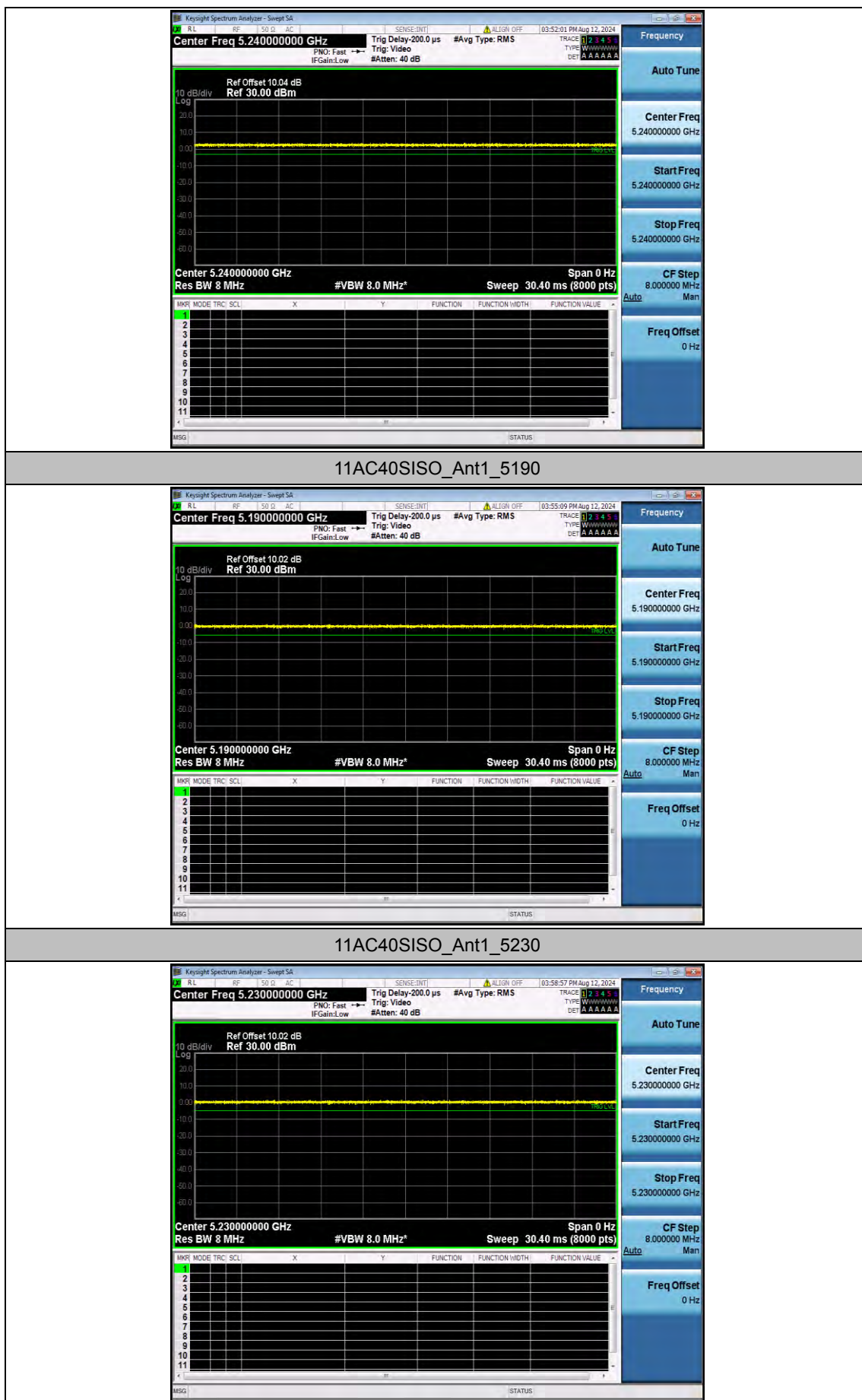
## 11AC20SISO\_Ant1\_5180

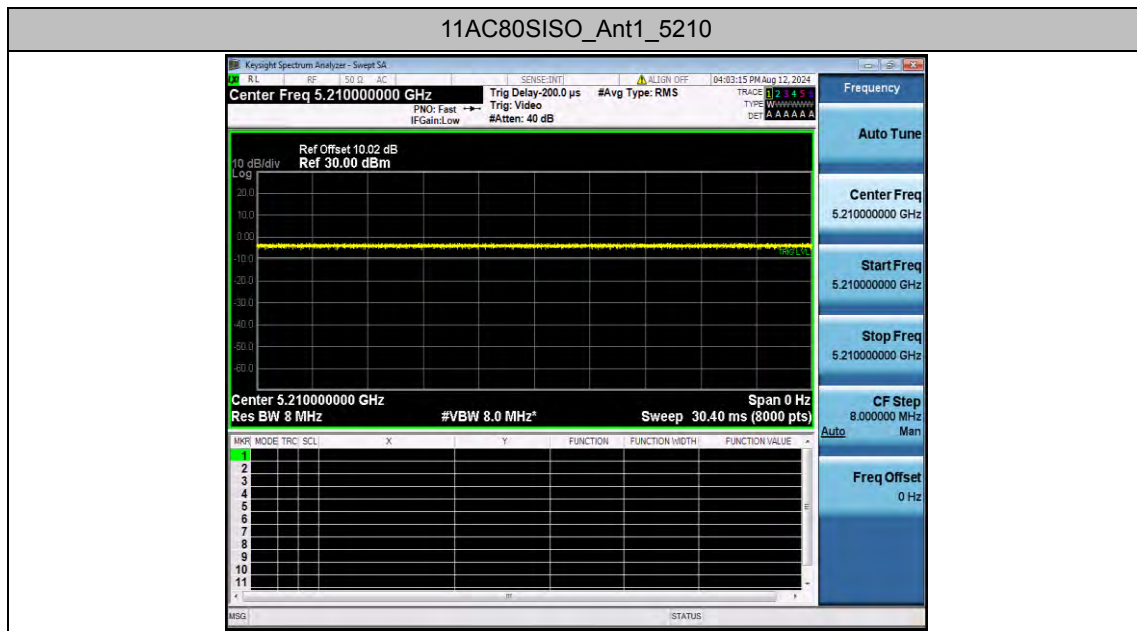


## 11AC20SISO\_Ant1\_5200



## 11AC20SISO\_Ant1\_5240





## Appendix B.4: 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] | Verdict |
|------------|---------|-----------|---------------------|----------------|-----------------|--------------|-------------|---------|
| 11A        | Ant1    | 5180      | 5.27                | 100.00         | 0.00            | 5.27         | ≤23.98      | PASS    |
|            |         | 5200      | 5.26                | 100.00         | 0.00            | 5.26         | ≤23.98      | PASS    |
|            |         | 5240      | 5.77                | 100.00         | 0.00            | 5.77         | ≤23.98      | PASS    |
| 11N20SISO  | Ant1    | 5180      | 4.83                | 100.00         | 0.00            | 4.83         | ≤23.98      | PASS    |
|            |         | 5200      | 6.62                | 100.00         | 0.00            | 6.62         | ≤23.98      | PASS    |
|            |         | 5240      | 6.00                | 100.00         | 0.00            | 6.00         | ≤23.98      | PASS    |
| 11N40SISO  | Ant1    | 5190      | 4.05                | 100.00         | 0.00            | 4.05         | ≤23.98      | PASS    |
|            |         | 5230      | 5.92                | 100.00         | 0.00            | 5.92         | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5180      | 4.97                | 100.00         | 0.00            | 4.97         | ≤23.98      | PASS    |
|            |         | 5200      | 6.76                | 100.00         | 0.00            | 6.76         | ≤23.98      | PASS    |
|            |         | 5240      | 6.37                | 100.00         | 0.00            | 6.37         | ≤23.98      | PASS    |
| 11AC40SISO | Ant1    | 5190      | 6.57                | 100.00         | 0.00            | 6.57         | ≤23.98      | PASS    |
|            |         | 5230      | 6.58                | 100.00         | 0.00            | 6.58         | ≤23.98      | PASS    |
| 11AC80SISO | Ant1    | 5210      | 6.44                | 100.00         | 0.00            | 6.44         | ≤23.98      | PASS    |

## Appendix B.5: Maximum power spectral density

### Test Result

| TestMode   | Antenna | Freq(MHz) | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|-----------|------------------|----------------|---------|
| 11A        | Ant1    | 5180      | -6.49            | ≤11.00         | PASS    |
|            |         | 5200      | -6.27            | ≤11.00         | PASS    |
|            |         | 5240      | -5.73            | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5180      | -6.95            | ≤11.00         | PASS    |
|            |         | 5200      | -5.14            | ≤11.00         | PASS    |
|            |         | 5240      | -5.83            | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5190      | -10.55           | ≤11.00         | PASS    |
|            |         | 5230      | -8.79            | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5180      | -6.80            | ≤11.00         | PASS    |
|            |         | 5200      | -4.99            | ≤11.00         | PASS    |
|            |         | 5240      | -5.35            | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5190      | -8.03            | ≤11.00         | PASS    |
|            |         | 5230      | -7.53            | ≤11.00         | PASS    |
| 11AC80SISO | Ant1    | 5210      | -9.68            | ≤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 and RBW Factor is compensated in the graph.



## Test Graphs

11A\_Ant1\_5180



11A\_Ant1\_5200



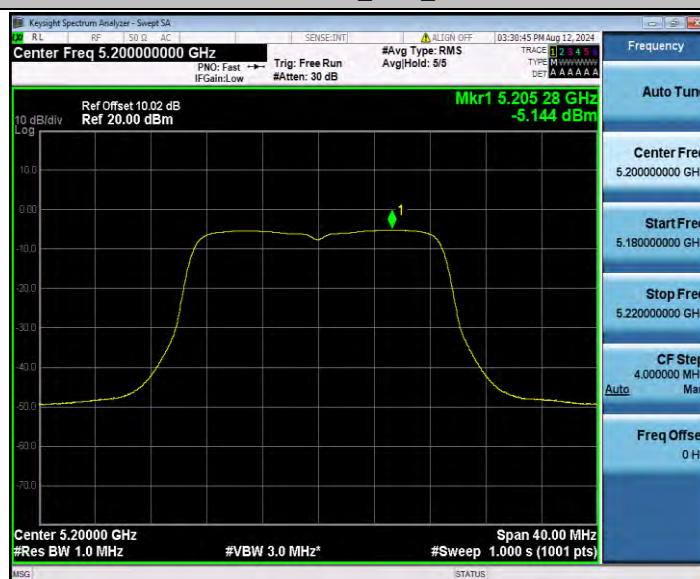
11A\_Ant1\_5240



11N20SISO\_Ant1\_5180



11N20SISO\_Ant1\_5200



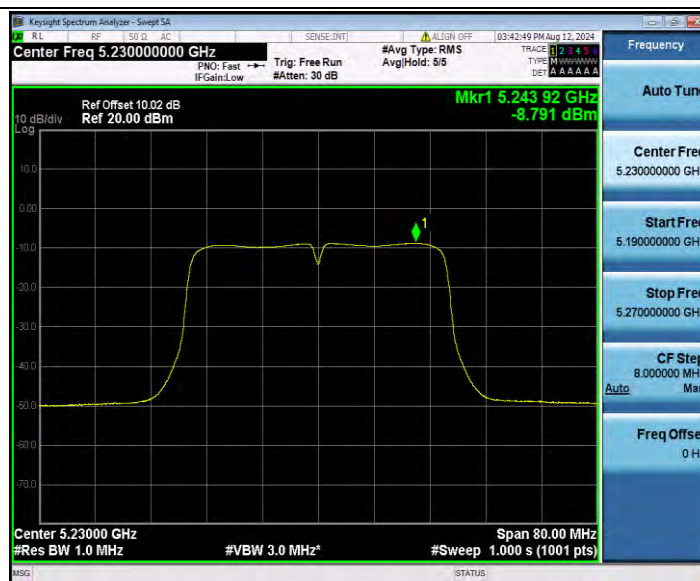
## 11N20SISO\_Ant1\_5240



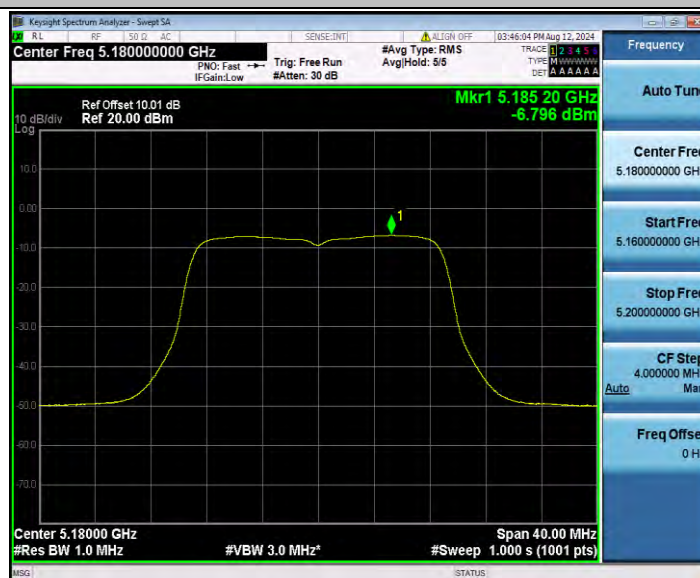
## 11N40SISO\_Ant1\_5190



## 11N40SISO\_Ant1\_5230



11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant1\_5200





## 11AC20SISO\_Ant1\_5240



## 11AC40SISO\_Ant1\_5190



## 11AC40SISO\_Ant1\_5230



