

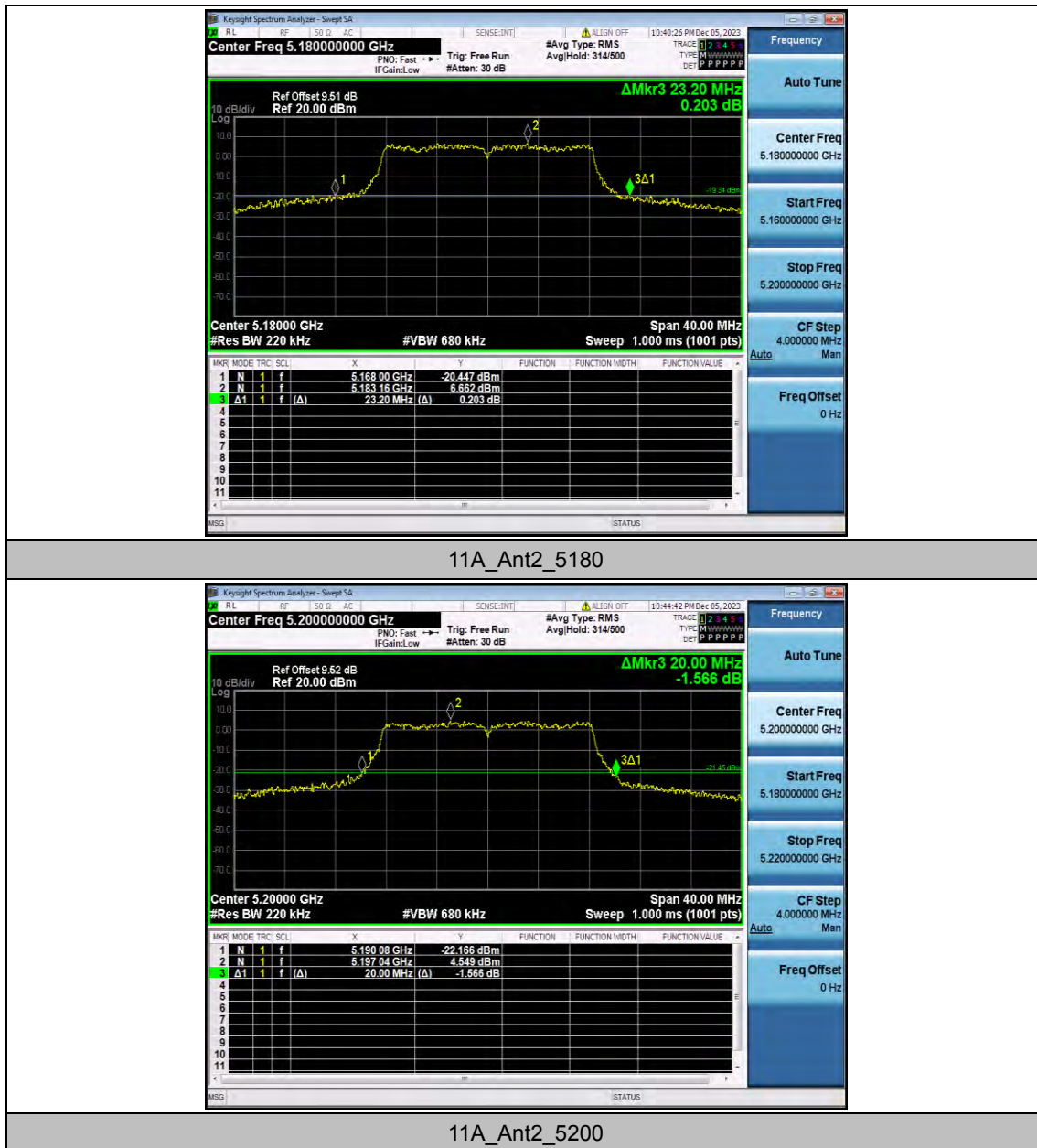
|                                                                       |                                          |
|-----------------------------------------------------------------------|------------------------------------------|
| <b>Case No. :</b> <u>GTS20231012003-1-5</u>                           |                                          |
| <b>Ambient Condition:</b> <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa, |                                          |
| <b>Test Date:</b> <u>2023.12.5</u>                                    | <b>Test Engineer:</b> <u>Evan ouyang</u> |

## Appendix D.1: Emission Bandwidth

### Test Result

| Test Mode  | Antenna | Frequency[MHz] | 26db<br>EBW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|----------------------|----------|----------|------------|---------|
| 11A        | Ant2    | 5180           | 23.200               | 5168.000 | 5191.200 | ---        | ---     |
|            |         | 5200           | 20.000               | 5190.080 | 5210.080 | ---        | ---     |
|            |         | 5240           | 19.720               | 5230.000 | 5249.720 | ---        | ---     |
| 11N20SISO  | Ant2    | 5180           | 20.640               | 5169.800 | 5190.440 | ---        | ---     |
|            |         | 5200           | 20.160               | 5189.960 | 5210.120 | ---        | ---     |
|            |         | 5240           | 20.040               | 5229.880 | 5249.920 | ---        | ---     |
| 11N40SISO  | Ant2    | 5190           | 40.160               | 5169.920 | 5210.080 | ---        | ---     |
|            |         | 5230           | 39.760               | 5210.160 | 5249.920 | ---        | ---     |
| 11AC20SISO | Ant2    | 5180           | 20.440               | 5169.600 | 5190.040 | ---        | ---     |
|            |         | 5200           | 20.040               | 5190.080 | 5210.120 | ---        | ---     |
|            |         | 5240           | 19.800               | 5230.000 | 5249.800 | ---        | ---     |
| 11AC40SISO | Ant2    | 5190           | 40.480               | 5169.760 | 5210.240 | ---        | ---     |
|            |         | 5230           | 40.240               | 5210.000 | 5250.240 | ---        | ---     |
| 11AC80SISO | Ant2    | 5210           | 81.440               | 5169.360 | 5250.800 | ---        | ---     |

## Test Graphs





11A\_Ant2\_5240



11N20SISO\_Ant2\_5180



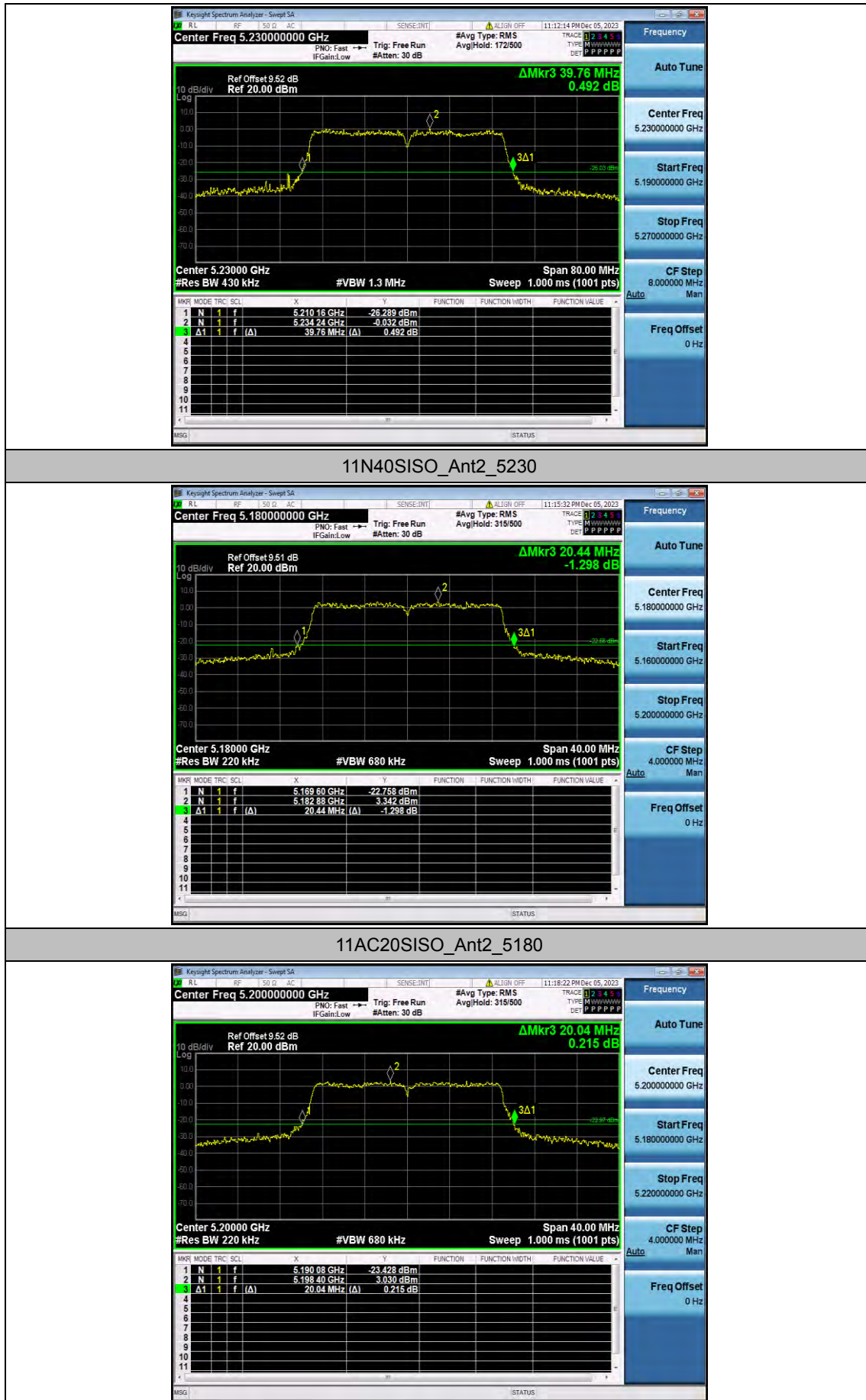
## 11N20SISO\_Ant2\_5200



## 11N20SISO\_Ant2\_5240



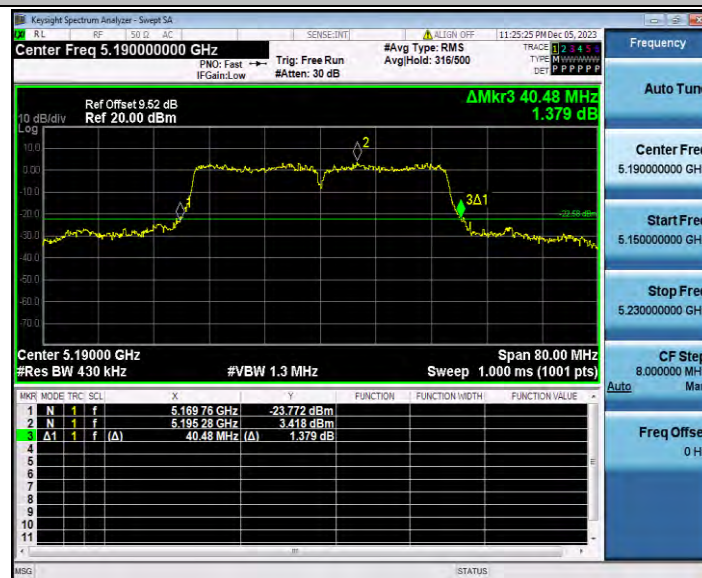
## 11N40SISO\_Ant2\_5190



## 11AC20SISO\_Ant2\_5200



## 11AC20SISO\_Ant2\_5240



## 11AC40SISO\_Ant2\_5190



11AC40SISO\_Ant2\_5230



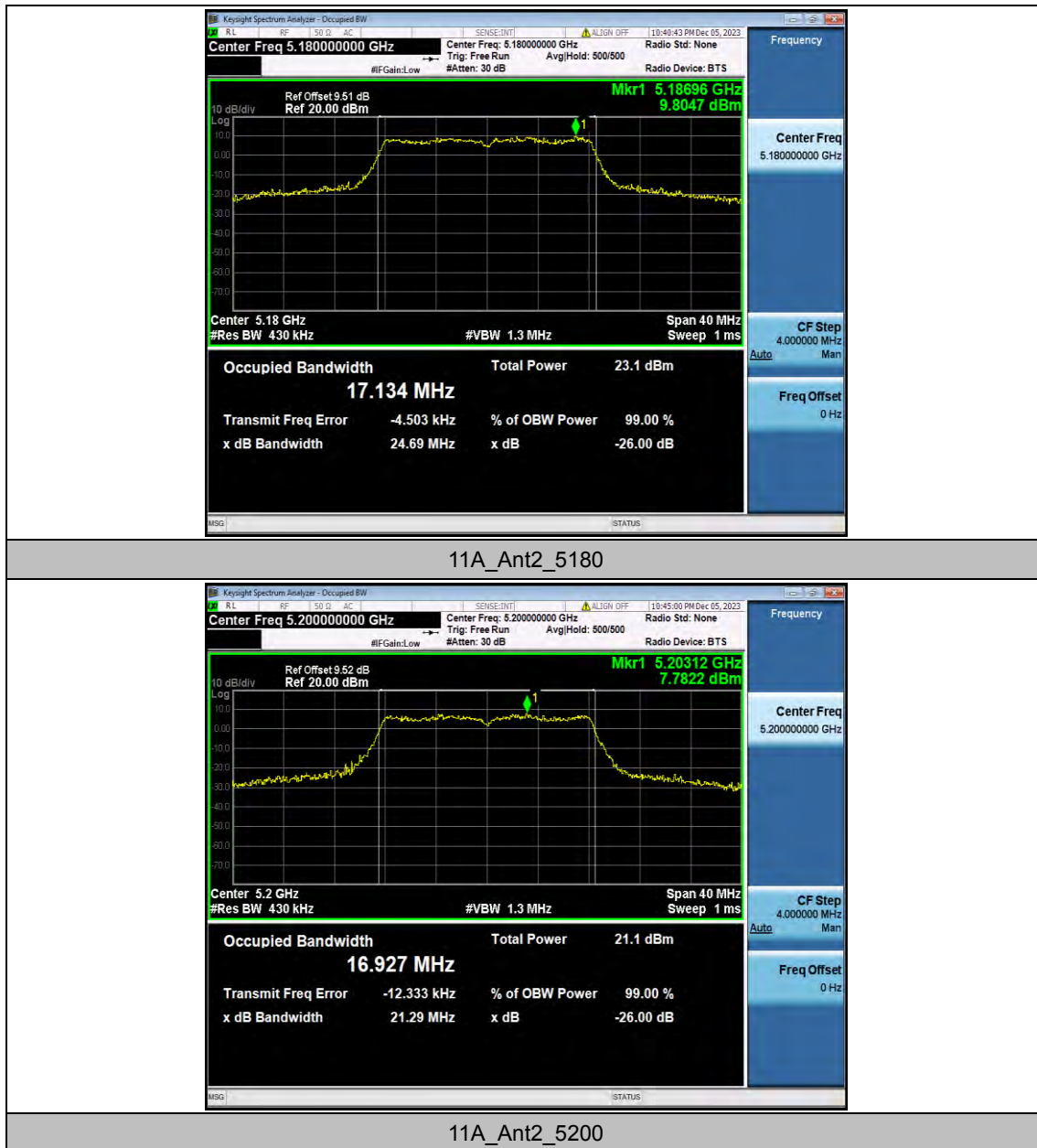
11AC80SISO\_Ant2\_5210

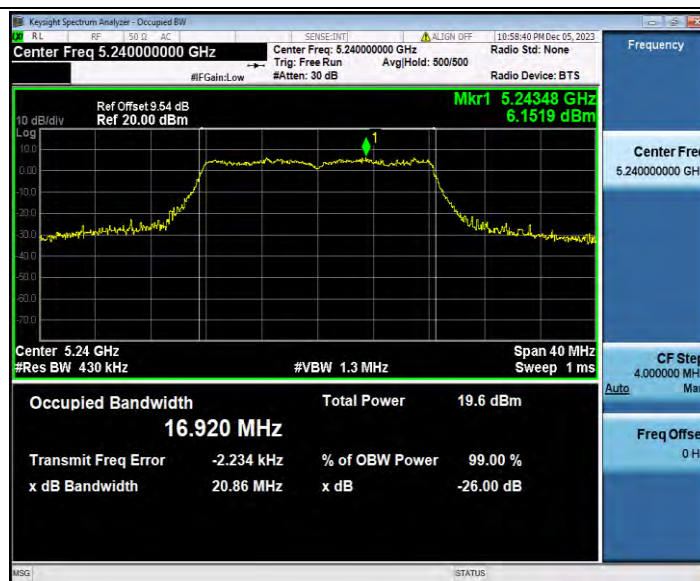
## Appendix D.2: Occupied channel bandwidth

### Test Result

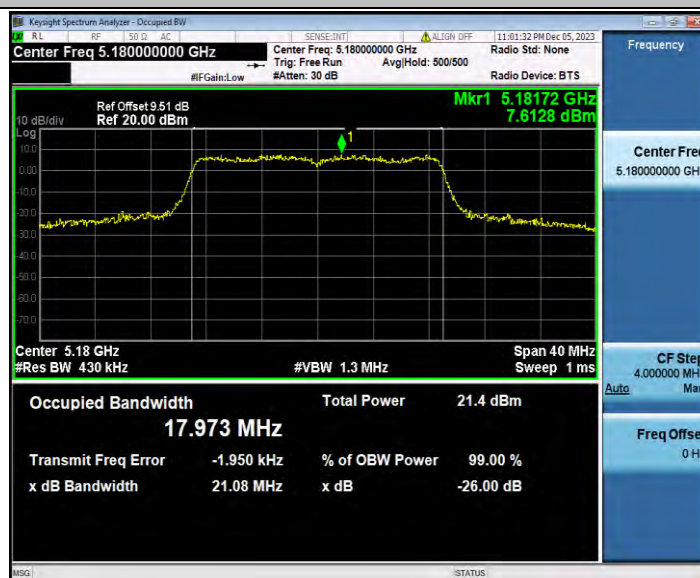
| Test Mode  | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|-----------|----------|----------|------------|---------|
| 11A        | Ant2    | 5180           | 17.134    | 5171.429 | 5188.563 | ---        | ---     |
|            |         | 5200           | 16.927    | 5191.524 | 5208.451 | ---        | ---     |
|            |         | 5240           | 16.920    | 5231.538 | 5248.458 | ---        | ---     |
| 11N20SISO  | Ant2    | 5180           | 17.973    | 5171.012 | 5188.985 | ---        | ---     |
|            |         | 5200           | 17.919    | 5191.036 | 5208.955 | ---        | ---     |
|            |         | 5240           | 17.923    | 5231.029 | 5248.952 | ---        | ---     |
| 11N40SISO  | Ant2    | 5190           | 36.564    | 5171.699 | 5208.263 | ---        | ---     |
|            |         | 5230           | 36.447    | 5211.745 | 5248.192 | ---        | ---     |
| 11AC20SISO | Ant2    | 5180           | 17.948    | 5171.042 | 5188.990 | ---        | ---     |
|            |         | 5200           | 17.911    | 5191.062 | 5208.973 | ---        | ---     |
|            |         | 5240           | 17.916    | 5231.045 | 5248.961 | ---        | ---     |
| 11AC40SISO | Ant2    | 5190           | 36.571    | 5171.724 | 5208.295 | ---        | ---     |
|            |         | 5230           | 36.606    | 5211.628 | 5248.234 | ---        | ---     |
| 11AC80SISO | Ant2    | 5210           | 76.405    | 5171.728 | 5248.133 | ---        | ---     |

## Test Graphs

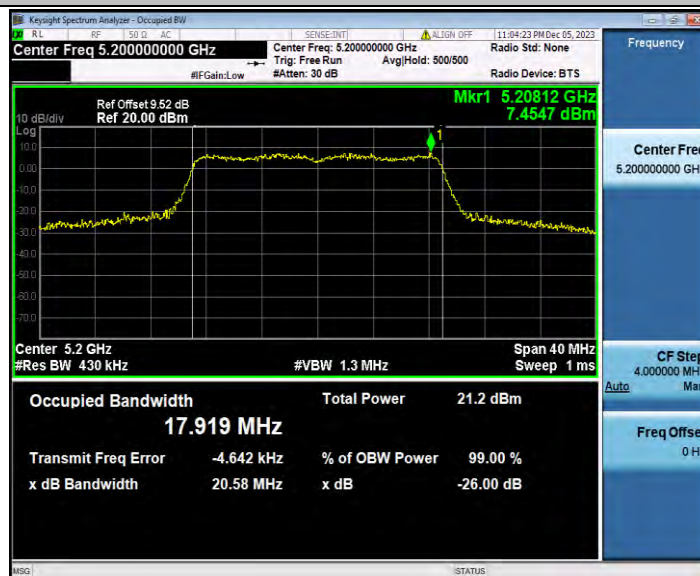




11A\_Ant2\_5240



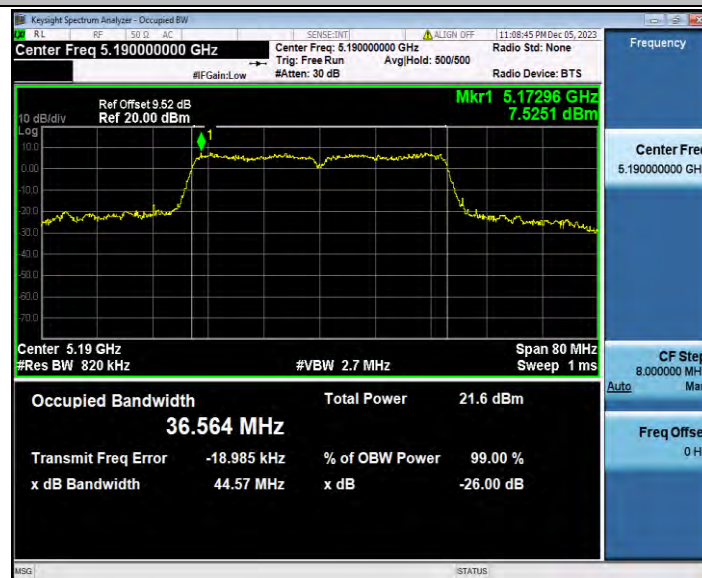
11N20SISO\_Ant2\_5180



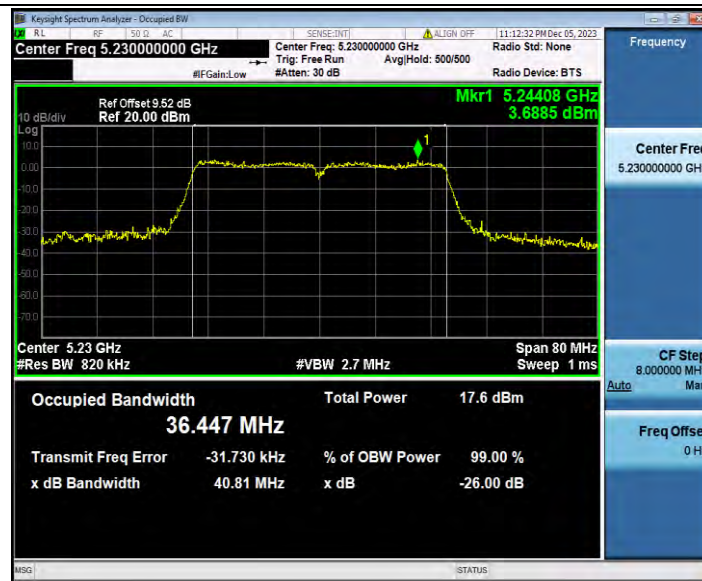
## 11N20SISO\_Ant2\_5200



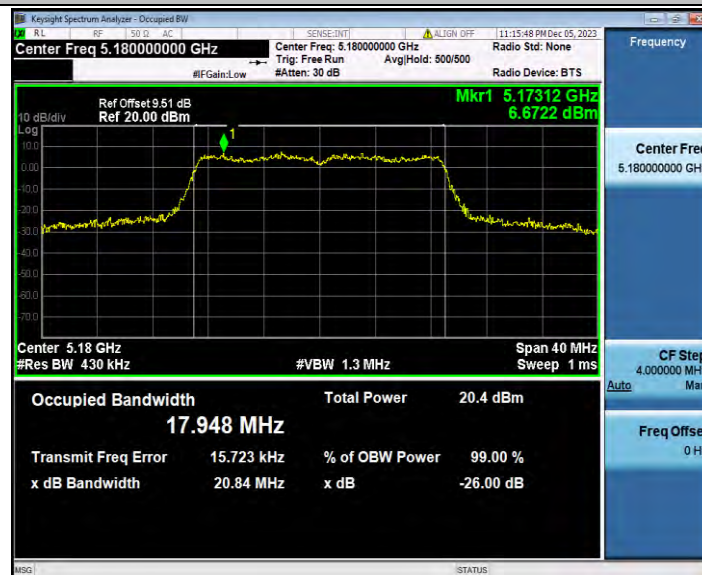
## 11N20SISO\_Ant2\_5240



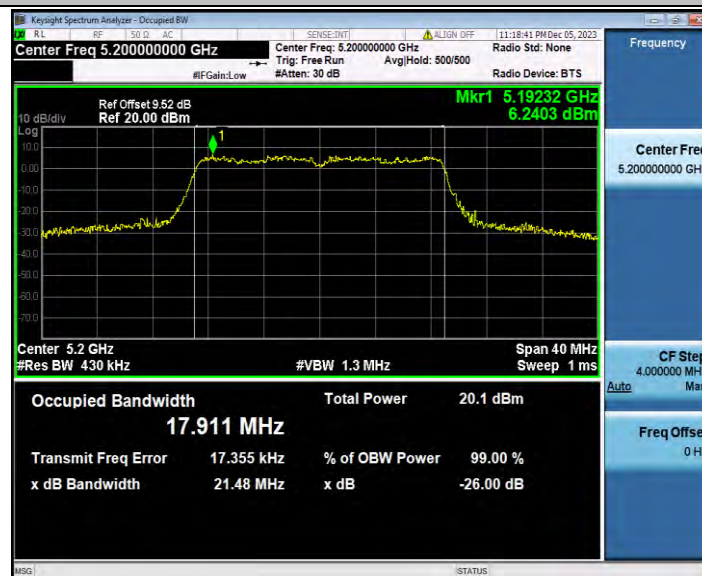
## 11N40SISO\_Ant2\_5190



11N40SISO\_Ant2\_5230



11AC20SISO\_Ant2\_5180



## 11AC20SISO\_Ant2\_5200



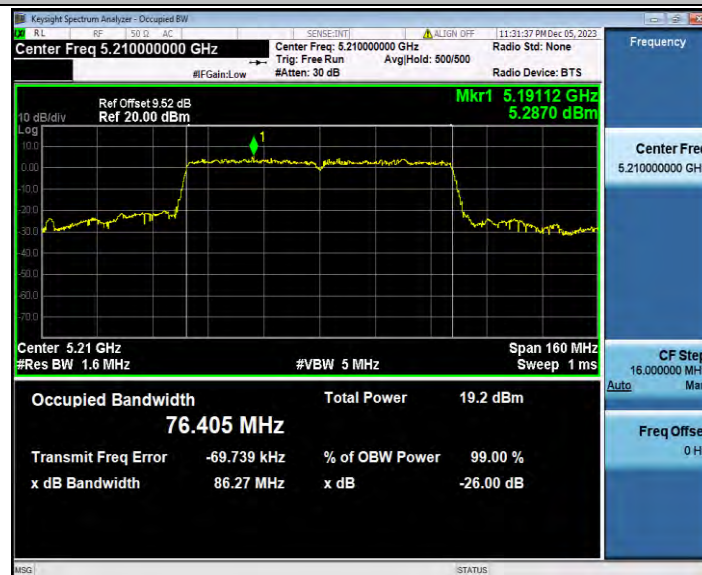
## 11AC20SISO\_Ant2\_5240



## 11AC40SISO\_Ant2\_5190



11AC40SISO\_Ant2\_5230



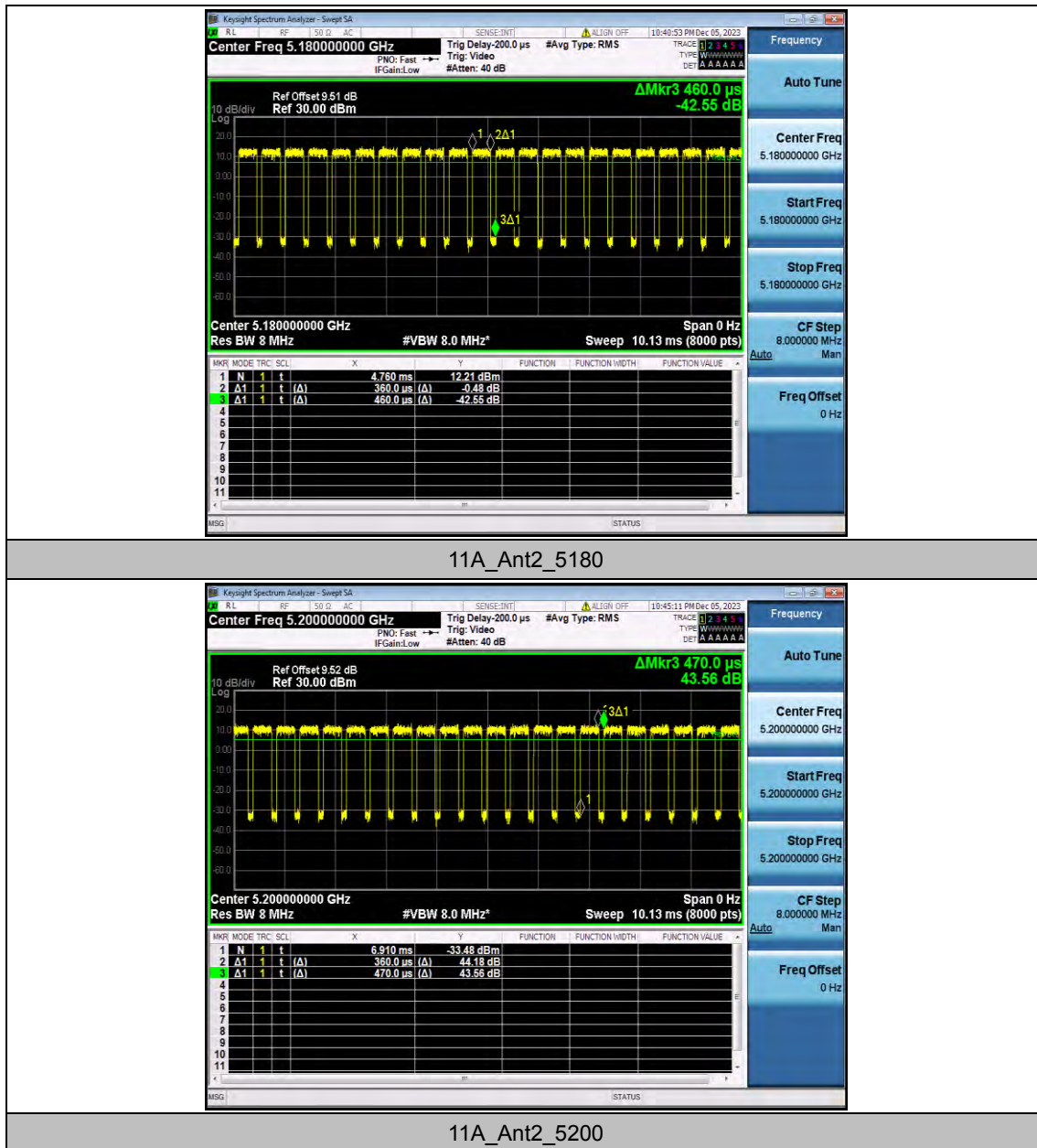
11AC80SISO\_Ant2\_5210

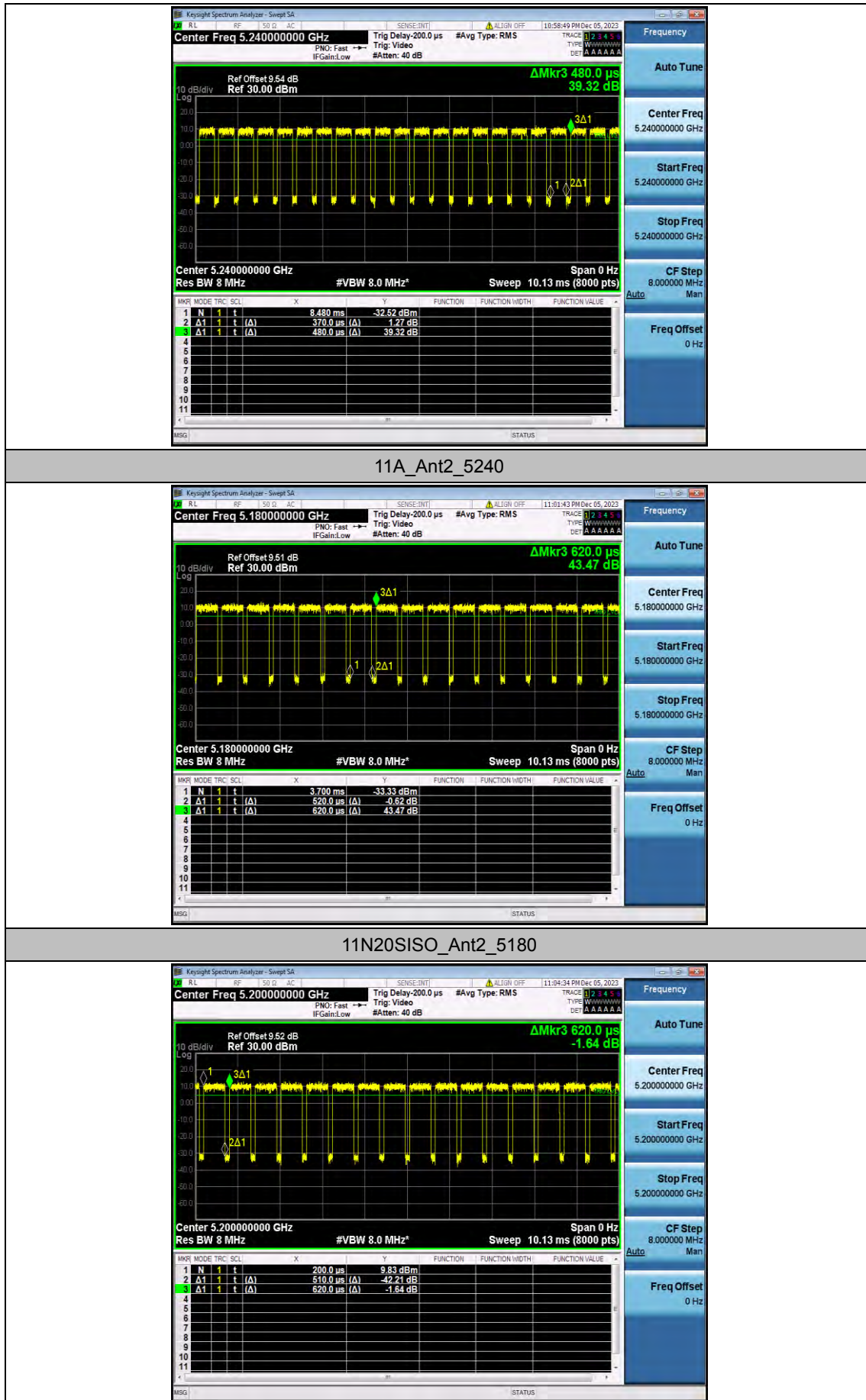
## Appendix D.3: Duty Cycle

### Test Result

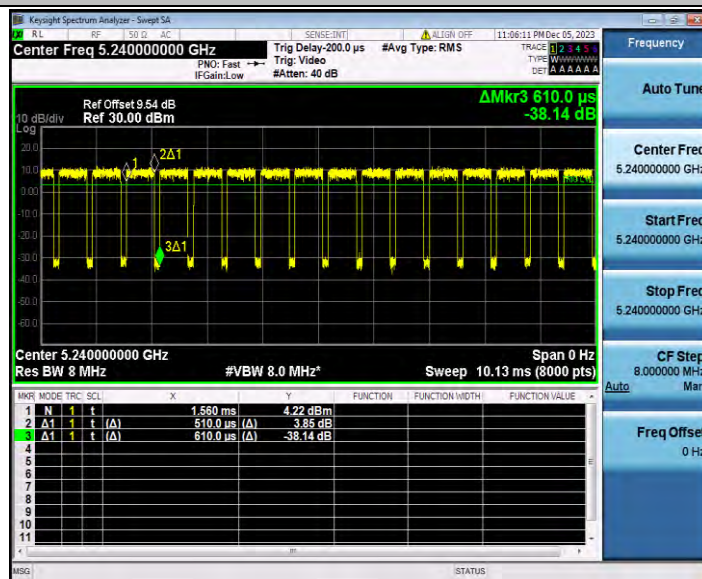
| Test Mode  | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|------------|---------|----------------|----------------------------|--------------------------|----------------|
| 11A        | Ant2    | 5180           | 0.36                       | 0.46                     | 78.26          |
|            |         | 5200           | 0.36                       | 0.47                     | 76.60          |
|            |         | 5240           | 0.37                       | 0.48                     | 77.08          |
| 11N20SISO  | Ant2    | 5180           | 0.52                       | 0.62                     | 83.87          |
|            |         | 5200           | 0.51                       | 0.62                     | 82.26          |
|            |         | 5240           | 0.51                       | 0.61                     | 83.61          |
| 11N40SISO  | Ant2    | 5190           | 0.26                       | 0.37                     | 70.27          |
|            |         | 5230           | 0.26                       | 0.36                     | 72.22          |
| 11AC20SISO | Ant2    | 5180           | 0.44                       | 0.54                     | 81.48          |
|            |         | 5200           | 0.44                       | 0.54                     | 81.48          |
|            |         | 5240           | 0.44                       | 0.54                     | 81.48          |
| 11AC40SISO | Ant2    | 5190           | 0.21                       | 0.31                     | 67.74          |
|            |         | 5230           | 0.21                       | 0.32                     | 65.63          |
| 11AC80SISO | Ant2    | 5210           | 0.11                       | 0.22                     | 50.00          |

## Test Graphs

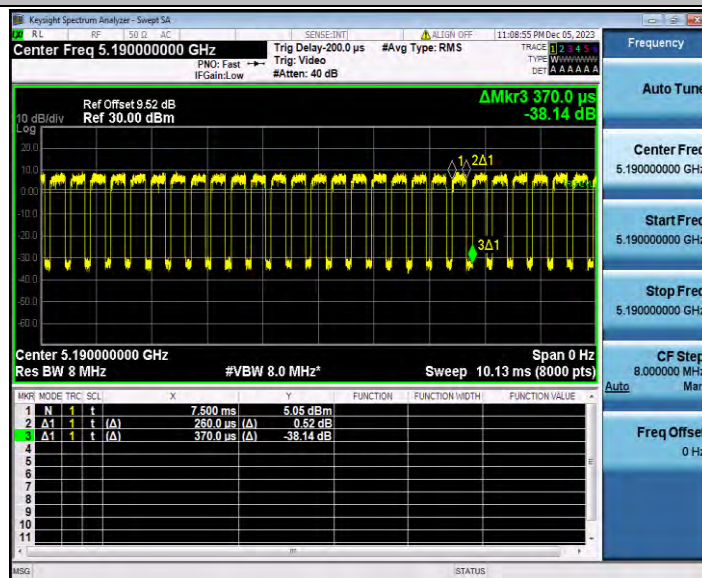




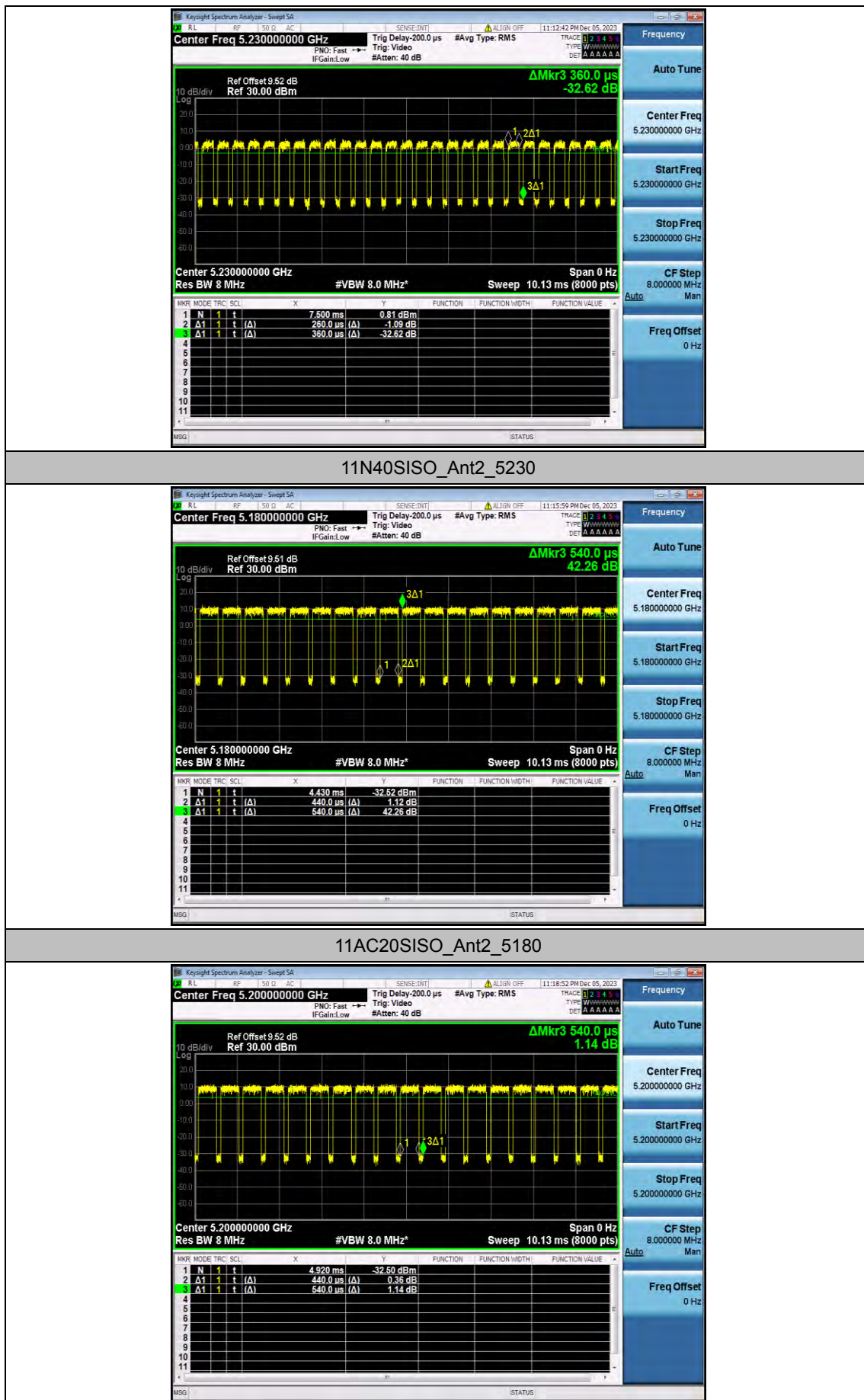
## 11N20SISO\_Ant2\_5200



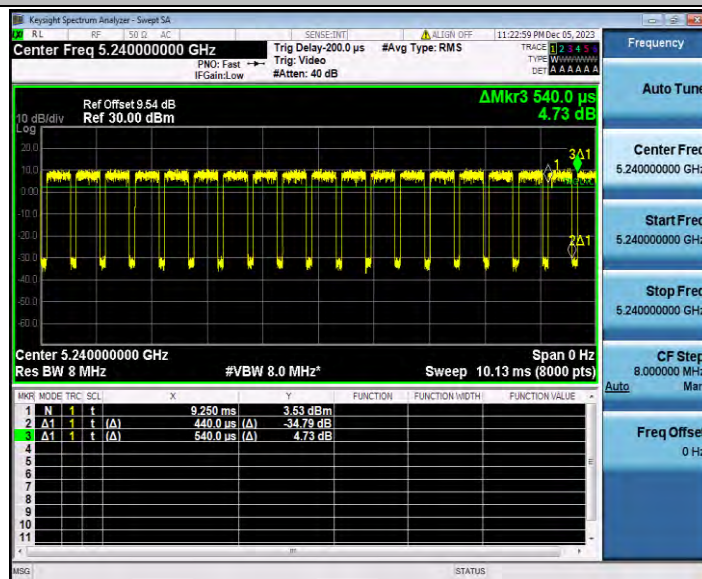
## 11N20SISO\_Ant2\_5240



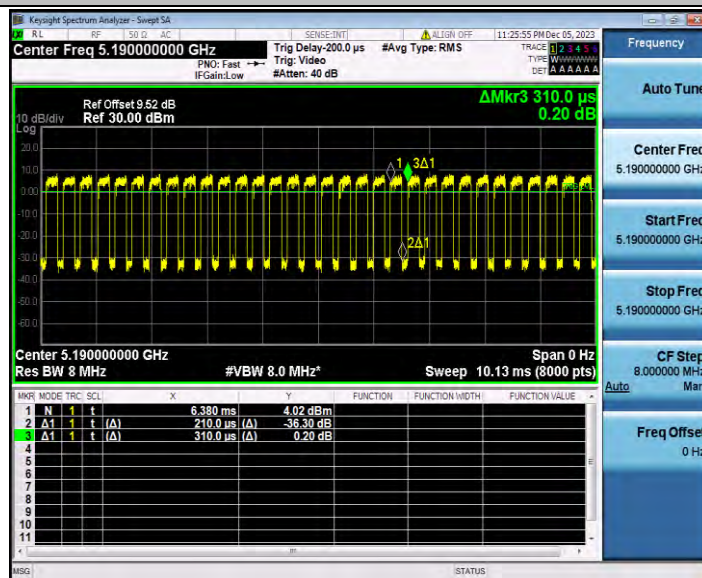
## 11N40SISO\_Ant2\_5190



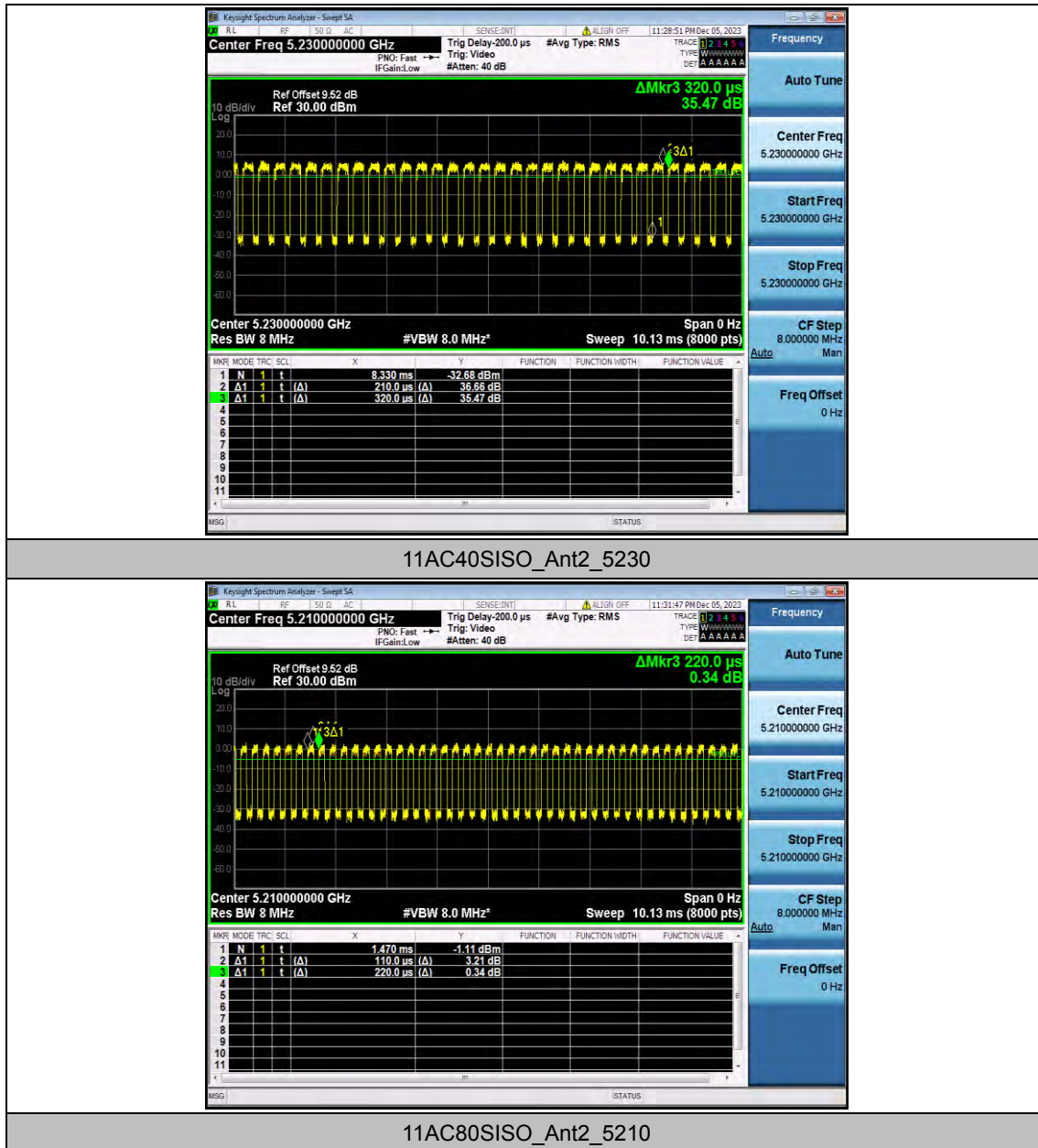
## 11AC20SISO\_Ant2\_5200



## 11AC20SISO\_Ant2\_5240



## 11AC40SISO\_Ant2\_5190



## Appendix D.4: Maximum conducted output power

### Test Result Channel Power

| Test Mode  | Antenna | Frequency[M Hz] | Channel Power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|-----------------|---------------------|----------------|-----------------|--------------|-------------|---------|
| 11A        | Ant2    | 5180            | 14.79               | 78.26          | 1.06            | 15.85        | ≤23.98      | PASS    |
|            |         | 5200            | 12.74               | 76.60          | 1.16            | 13.90        | ≤23.98      | PASS    |
|            |         | 5240            | 11.25               | 77.08          | 1.13            | 12.38        | ≤23.98      | PASS    |
| 11N20SISO  | Ant2    | 5180            | 13.24               | 83.87          | 0.76            | 14.00        | ≤23.98      | PASS    |
|            |         | 5200            | 13.02               | 82.26          | 0.85            | 13.87        | ≤23.98      | PASS    |
|            |         | 5240            | 11.74               | 83.61          | 0.78            | 12.52        | ≤23.98      | PASS    |
| 11N40SISO  | Ant2    | 5190            | 12.22               | 70.27          | 1.53            | 13.75        | ≤23.98      | PASS    |
|            |         | 5230            | 8.15                | 72.22          | 1.41            | 9.56         | ≤23.98      | PASS    |
| 11AC20SISO | Ant2    | 5180            | 12.13               | 81.48          | 0.89            | 13.02        | ≤23.98      | PASS    |
|            |         | 5200            | 11.84               | 81.48          | 0.89            | 12.73        | ≤23.98      | PASS    |
|            |         | 5240            | 10.53               | 81.48          | 0.89            | 11.42        | ≤23.98      | PASS    |
| 11AC40SISO | Ant2    | 5190            | 11.05               | 67.74          | 1.69            | 12.74        | ≤23.98      | PASS    |
|            |         | 5230            | 9.80                | 65.63          | 1.83            | 11.63        | ≤23.98      | PASS    |
| 11AC80SISO | Ant2    | 5210            | 8.04                | 50.00          | 3.01            | 11.05        | ≤23.98      | PASS    |

Note: The Duty Cycle Factor is compensated in the graph.

## Appendix D.5: Maximum power spectral density

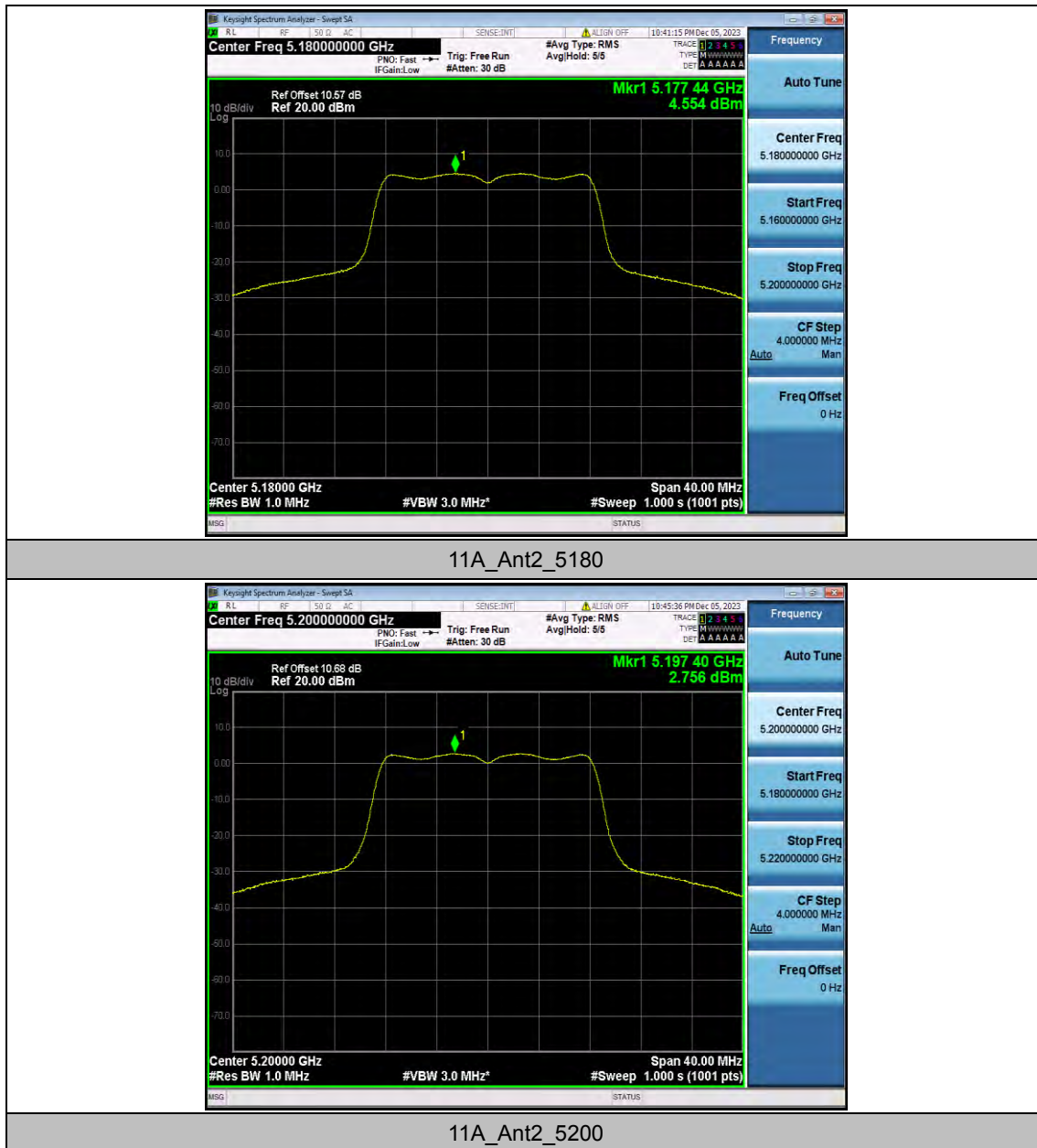
### Test Result

| Test Mode  | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|------------------|----------------|---------|
| 11A        | Ant2    | 5180           | 4.55             | ≤11.00         | PASS    |
|            |         | 5200           | 2.76             | ≤11.00         | PASS    |
|            |         | 5240           | 1.24             | ≤11.00         | PASS    |
| 11N20SISO  | Ant2    | 5180           | 2.5              | ≤11.00         | PASS    |
|            |         | 5200           | 2.48             | ≤11.00         | PASS    |
|            |         | 5240           | 1.28             | ≤11.00         | PASS    |
| 11N40SISO  | Ant2    | 5190           | -0.15            | ≤11.00         | PASS    |
|            |         | 5230           | -3.95            | ≤11.00         | PASS    |
| 11AC20SISO | Ant2    | 5180           | 1.51             | ≤11.00         | PASS    |
|            |         | 5200           | 1.36             | ≤11.00         | PASS    |
|            |         | 5240           | 0.24             | ≤11.00         | PASS    |
| 11AC40SISO | Ant2    | 5190           | -1.38            | ≤11.00         | PASS    |
|            |         | 5230           | -2.07            | ≤11.00         | PASS    |
| 11AC80SISO | Ant2    | 5210           | -5.87            | ≤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





## 11N20SISO\_Ant2\_5200



## 11N20SISO\_Ant2\_5240



## 11N40SISO\_Ant2\_5190



## 11AC20SISO\_Ant2\_5200



## 11AC20SISO\_Ant2\_5240



## 11AC40SISO\_Ant2\_5190



11AC40SISO\_Ant2\_5230



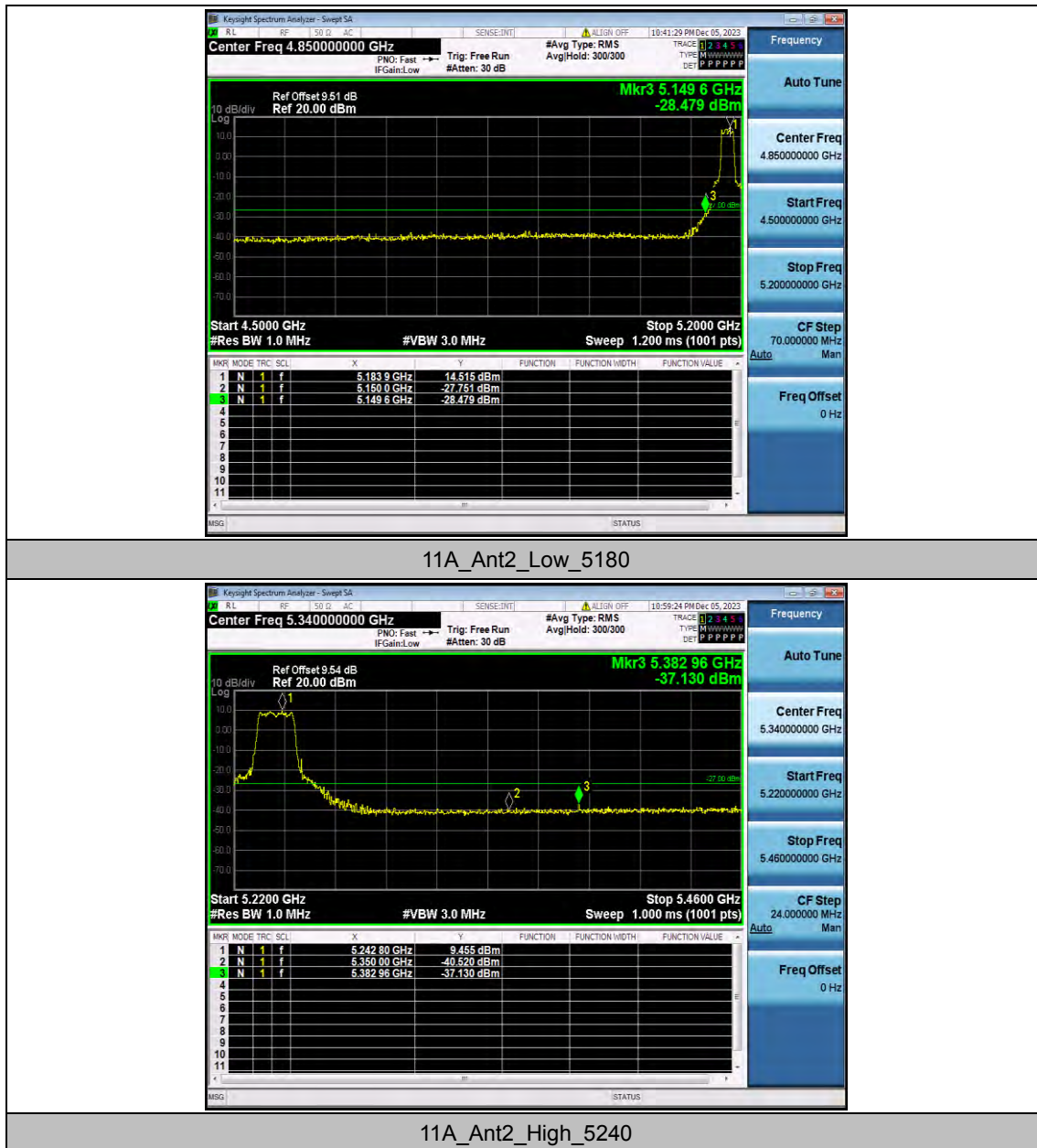
11AC80SISO\_Ant2\_5210

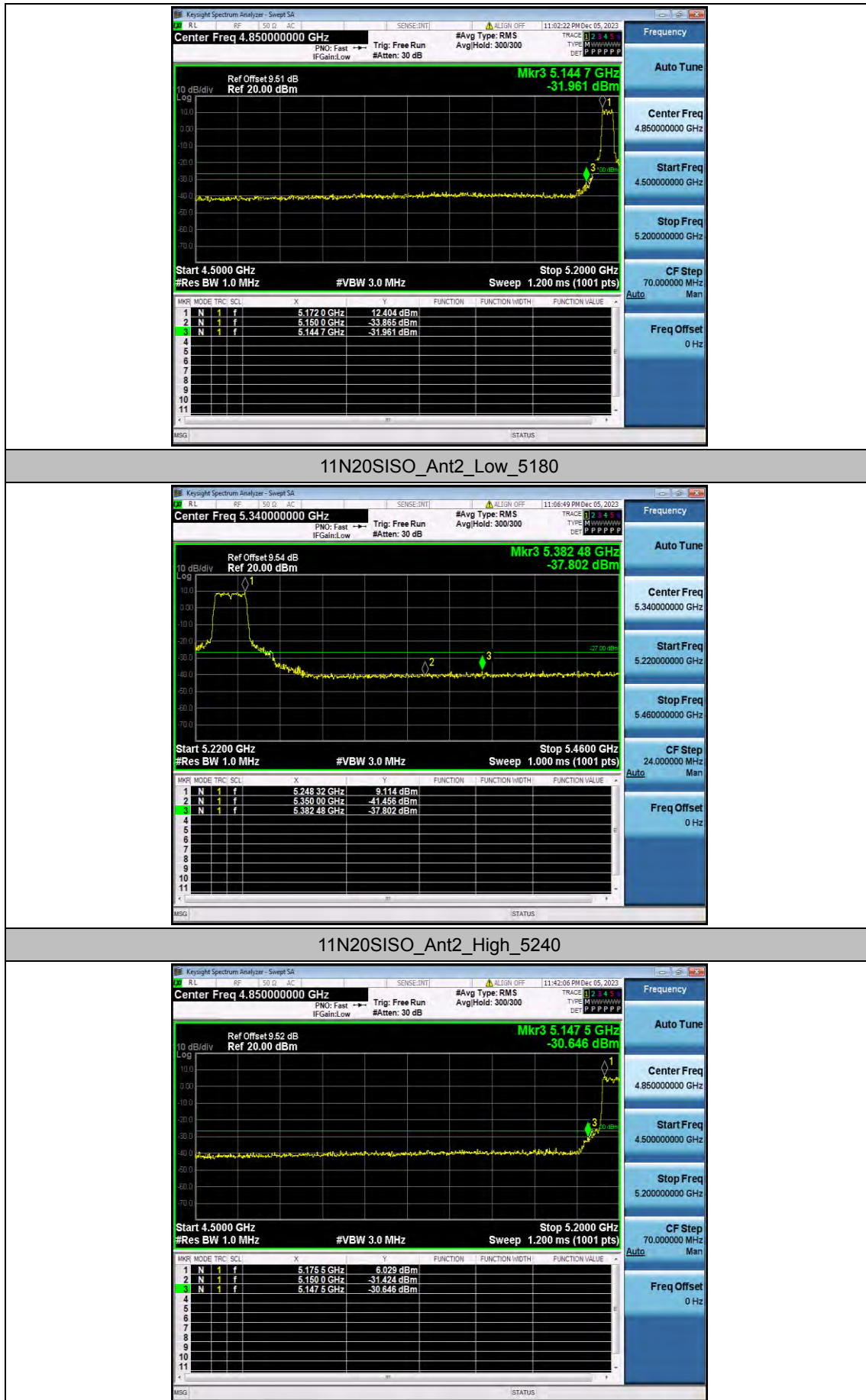
## Appendix D.6: Band edge measurements

### Test Result B1

| Test Mode  | Antenna | ChName | Frequency[MHz] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------|----------------|-------------|------------|---------|
| 11A        | Ant2    | Low    | 5180           | -28.48      | $\leq -27$ | PASS    |
|            |         | High   | 5240           | -37.13      | $\leq -27$ | PASS    |
| 11N20SISO  | Ant2    | Low    | 5180           | -31.96      | $\leq -27$ | PASS    |
|            |         | High   | 5240           | -37.8       | $\leq -27$ | PASS    |
| 11N40SISO  | Ant2    | Low    | 5190           | -30.65      | $\leq -27$ | PASS    |
|            |         | High   | 5230           | -36.07      | $\leq -27$ | PASS    |
| 11AC20SISO | Ant2    | Low    | 5180           | -32         | $\leq -27$ | PASS    |
|            |         | High   | 5240           | -37.85      | $\leq -27$ | PASS    |
| 11AC40SISO | Ant2    | Low    | 5190           | -35.03      | $\leq -27$ | PASS    |
|            |         | High   | 5230           | -37.91      | $\leq -27$ | PASS    |
| 11AC80SISO | Ant2    | Low    | 5210           | -30.72      | $\leq -27$ | PASS    |
|            |         | High   | 5210           | -35.58      | $\leq -27$ | PASS    |

## Test Graphs B1

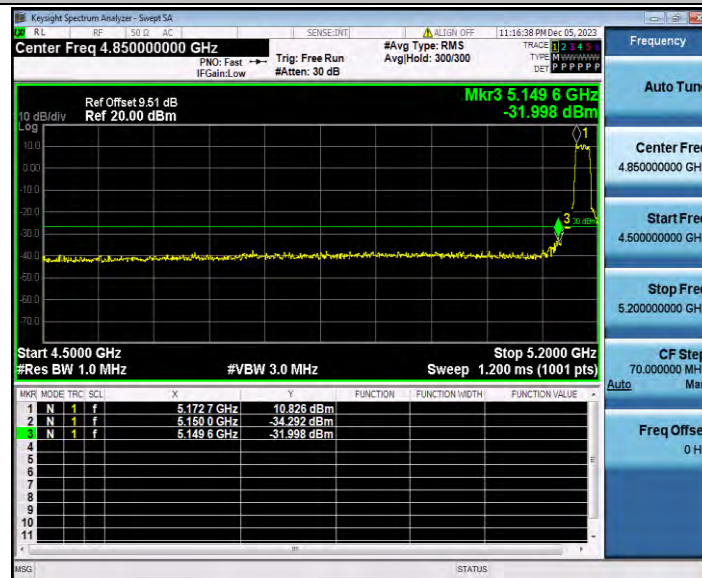




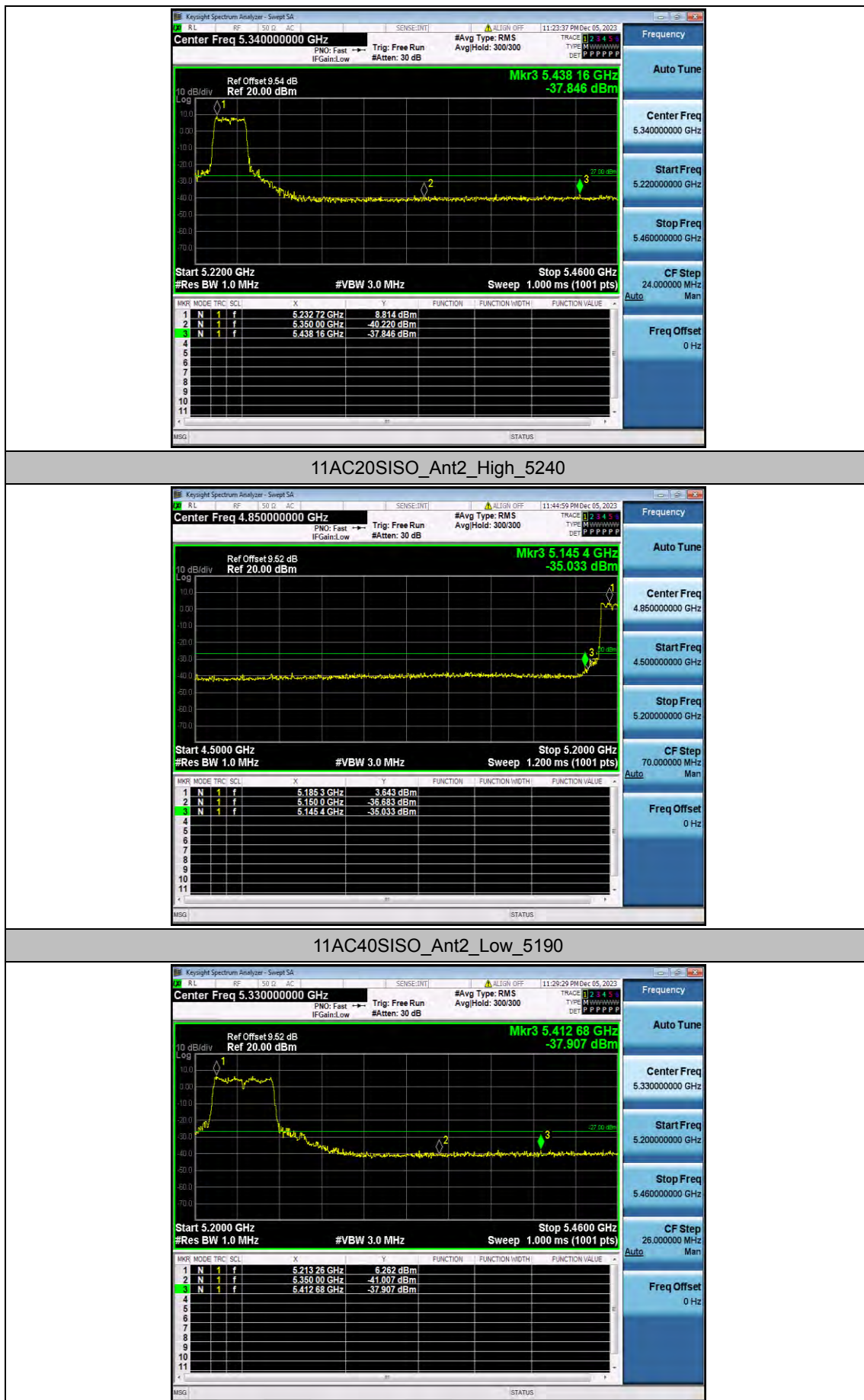
## 11N40SISO\_Ant2\_Low\_5190



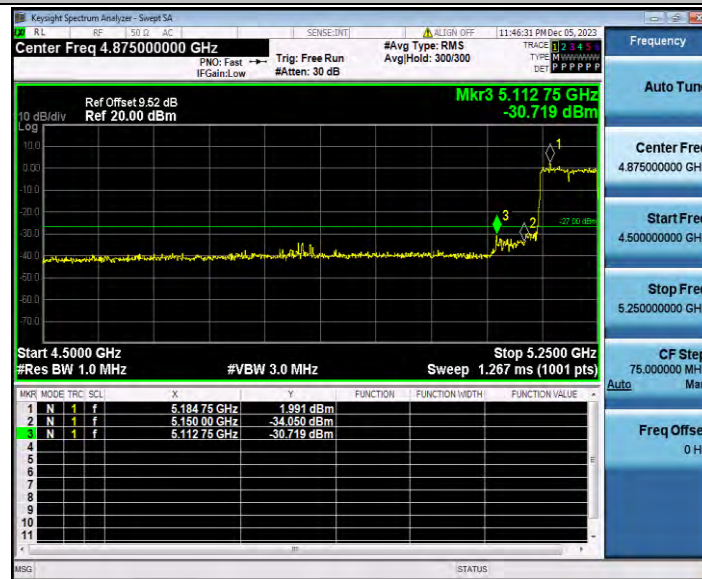
## 11N40SISO\_Ant2\_High\_5230



## 11AC20SISO\_Ant2\_Low\_5180



## 11AC40SISO\_Ant2\_High\_5230



## 11AC80SISO\_Ant2\_Low\_5210



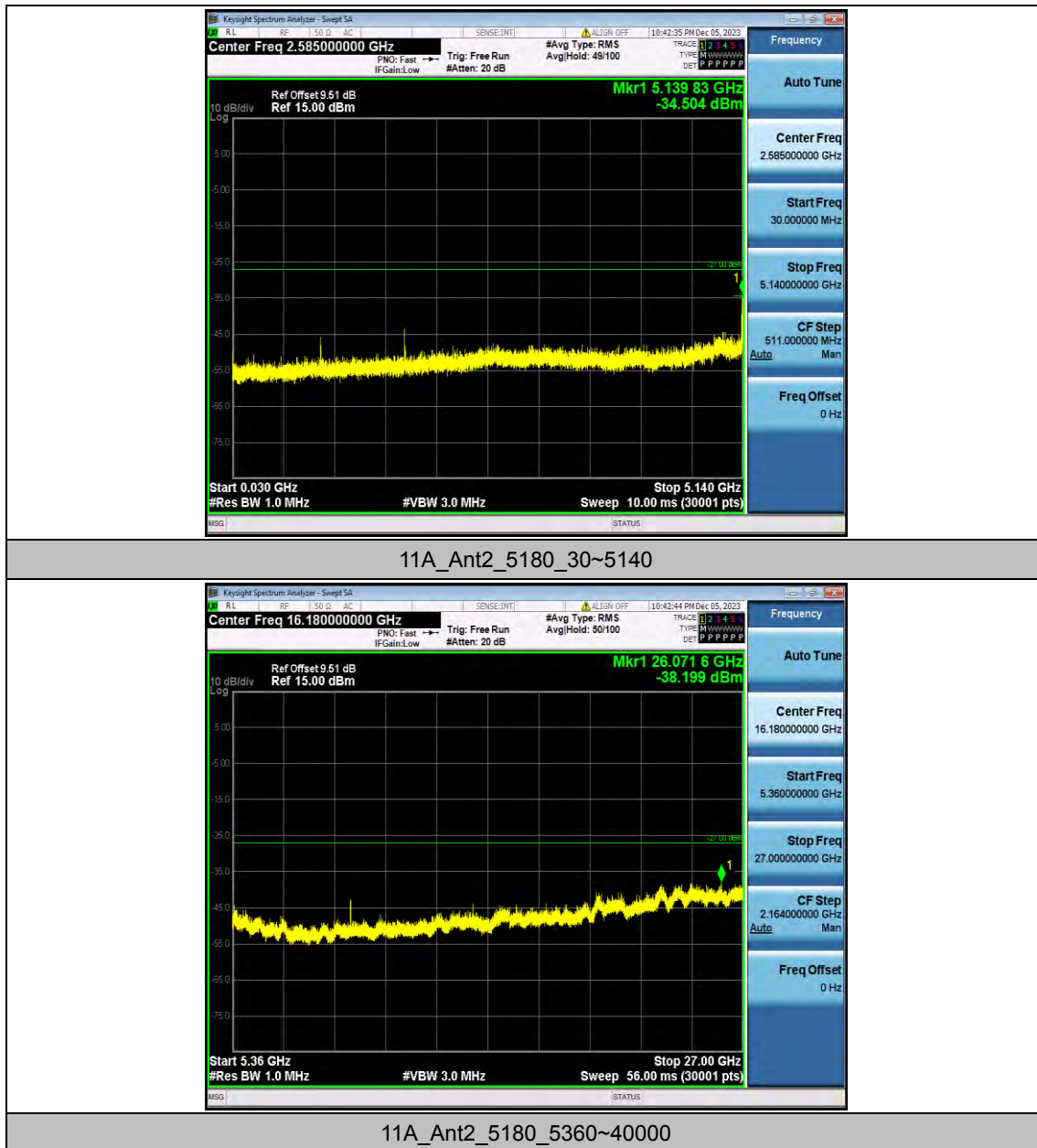
## 11AC80SISO\_Ant2\_High\_5210

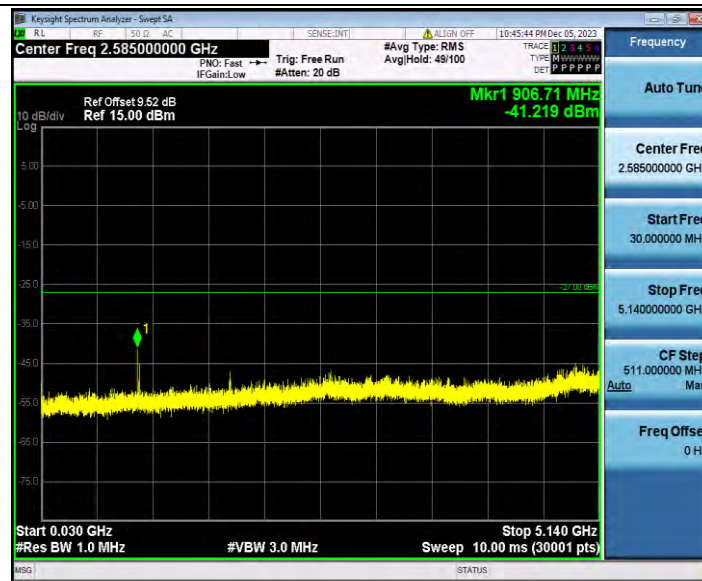
## Appendix D.7: Conducted Spurious Emission

### Test Result

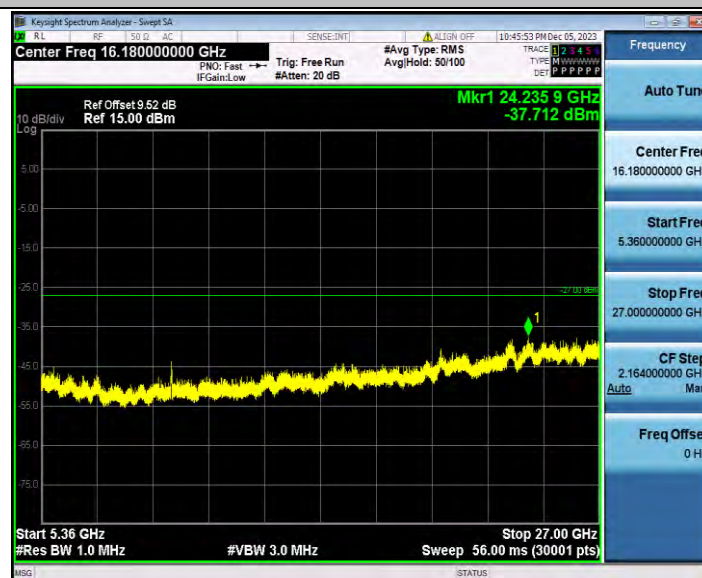
| Test Mode  | Antenna | Frequency[MHz] | FreqRange [MHz] | Max. Fre [MHz] | Max. Level [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|-----------------|----------------|------------------|-------------|---------|
| 11A        | Ant2    | 5180           | 30~5140         | 5139.83        | -34.5            | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26071.64       | -38.2            | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 906.71         | -41.22           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24235.85       | -37.71           | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 906.71         | -38              | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24297.89       | -38.14           | ≤-27        | PASS    |
| 11N20SISO  | Ant2    | 5180           | 30~5140         | 5138.64        | -37.78           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24222.15       | -37.93           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 4839.36        | -45.11           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24370.74       | -37.82           | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 4397.35        | -37.8            | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26029.81       | -38.08           | ≤-27        | PASS    |
| 11N40SISO  | Ant2    | 5190           | 30~5140         | 5139.15        | -34.76           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26841.31       | -37.91           | ≤-27        | PASS    |
|            |         | 5230           | 30~5140         | 5134.72        | -41.3            | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 25116.6        | -37.11           | ≤-27        | PASS    |
| 11AC20SISO | Ant2    | 5180           | 30~5140         | 5133.36        | -41.09           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26845.63       | -38.04           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 4898.81        | -46.73           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24890.1        | -37.99           | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 4917.2         | -44.57           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 5454.49        | -35.76           | ≤-27        | PASS    |
| 11AC40SISO | Ant2    | 5190           | 30~5140         | 5139.83        | -36.37           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 25180.08       | -37.92           | ≤-27        | PASS    |
|            |         | 5230           | 30~5140         | 5029.79        | -46.25           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26031.25       | -37.78           | ≤-27        | PASS    |
| 11AC80SISO | Ant2    | 5210           | 30~5140         | 5117.01        | -28.86           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24224.31       | -37.25           | ≤-27        | PASS    |

## Test Graphs

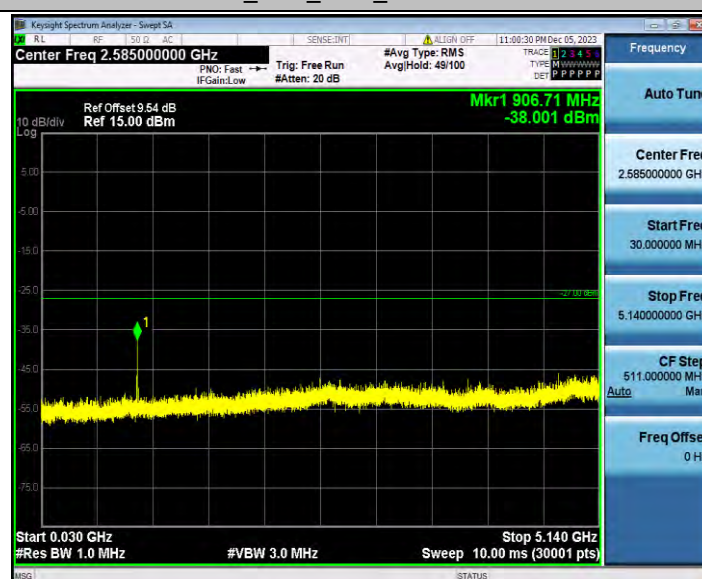




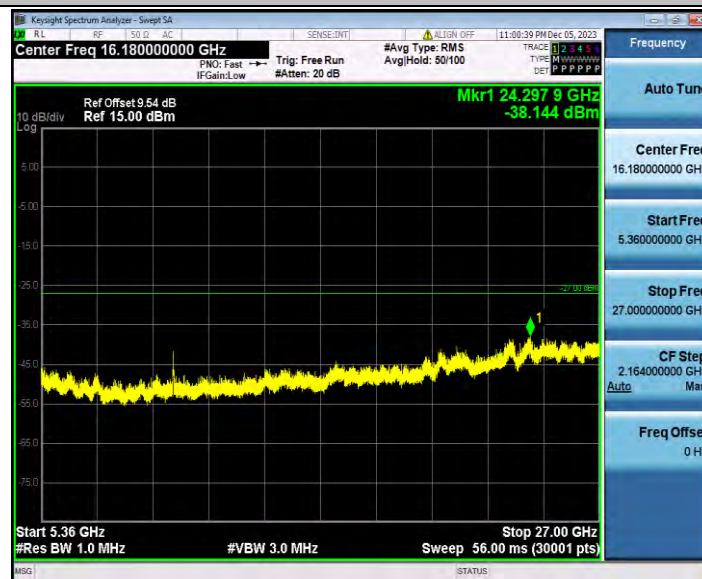
11A\_Ant2\_5200\_30~5140



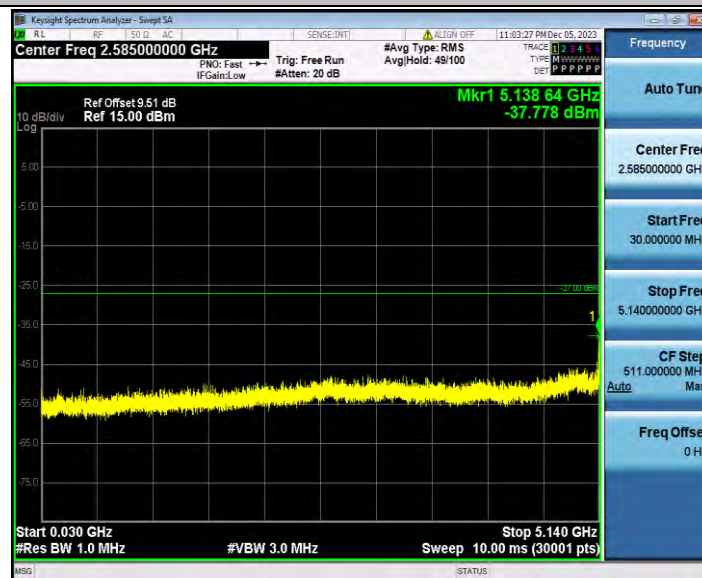
11A\_Ant2\_5200\_5360~40000



## 11A\_Ant2\_5240\_30~5140



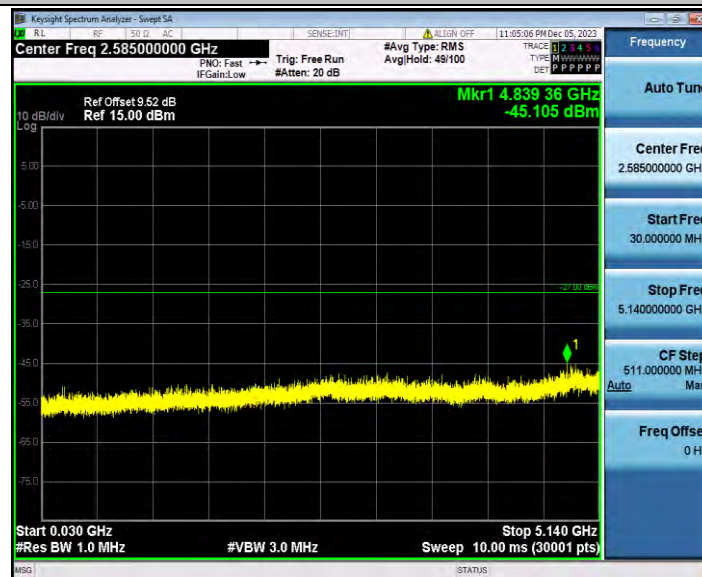
## 11A\_Ant2\_5240\_5360~40000



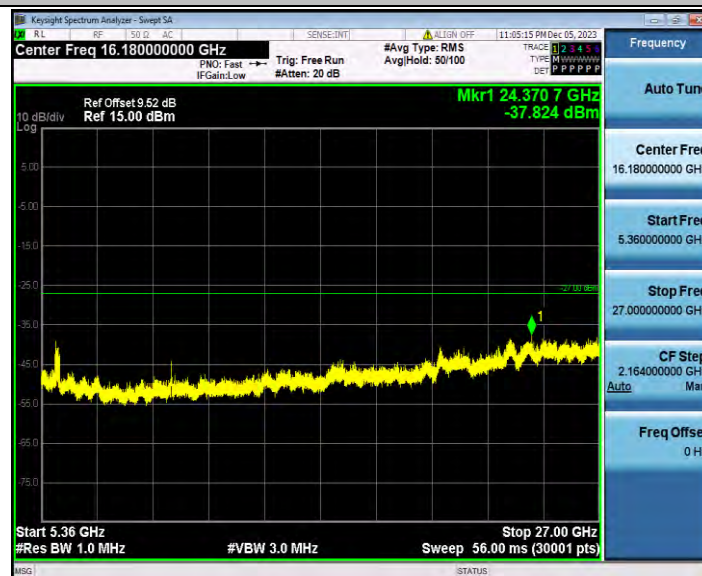
## 11N20SISO\_Ant2\_5180\_30~5140



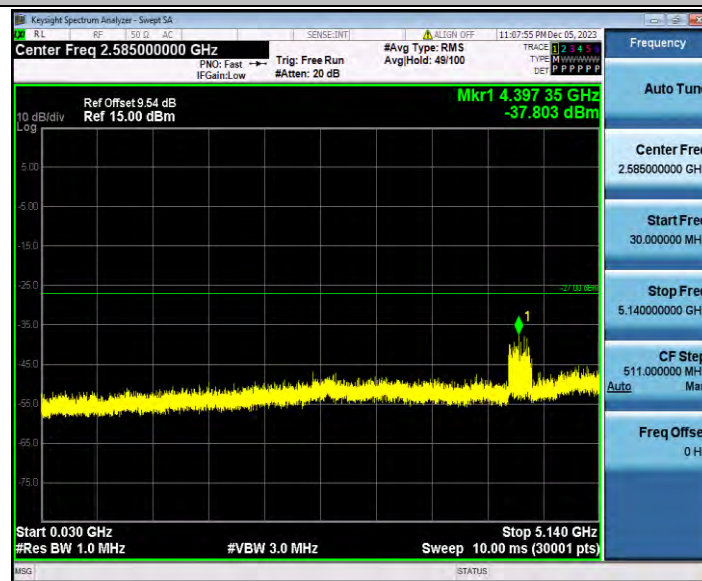
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11N20SISO\_Ant2\_5200\_30~5140



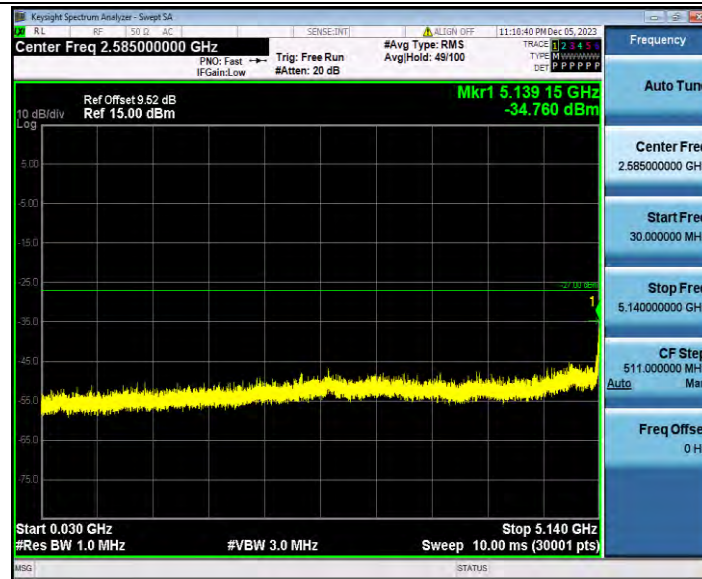
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## 11N20SISO\_Ant2\_5240\_30~5140



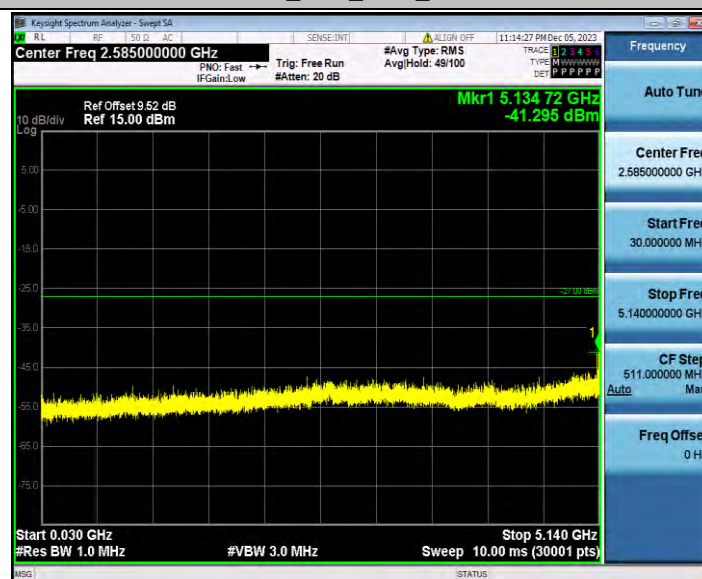
## 11N20SISO\_Ant2\_5240\_5360~40000



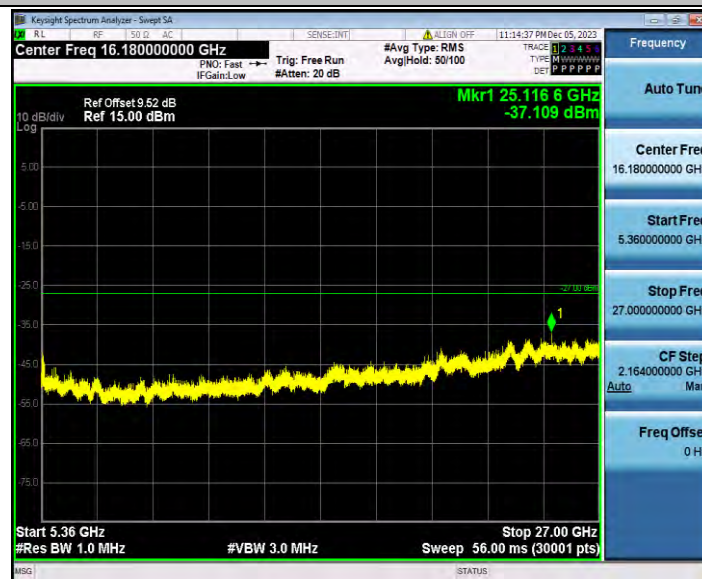
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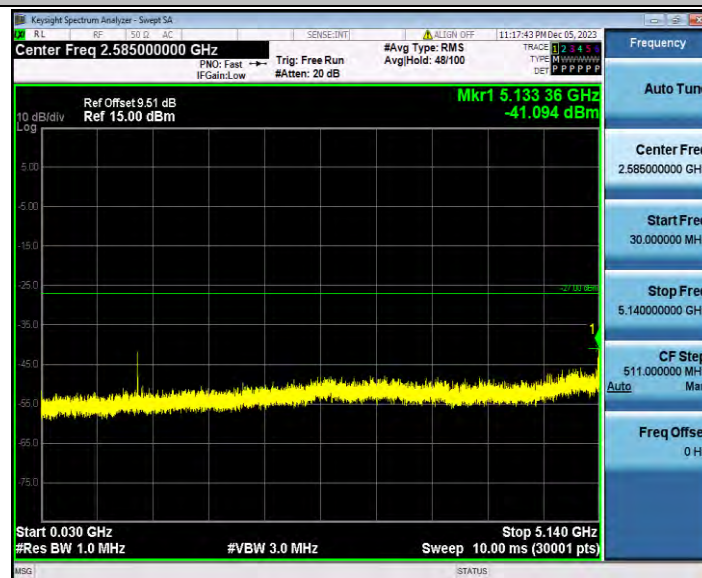
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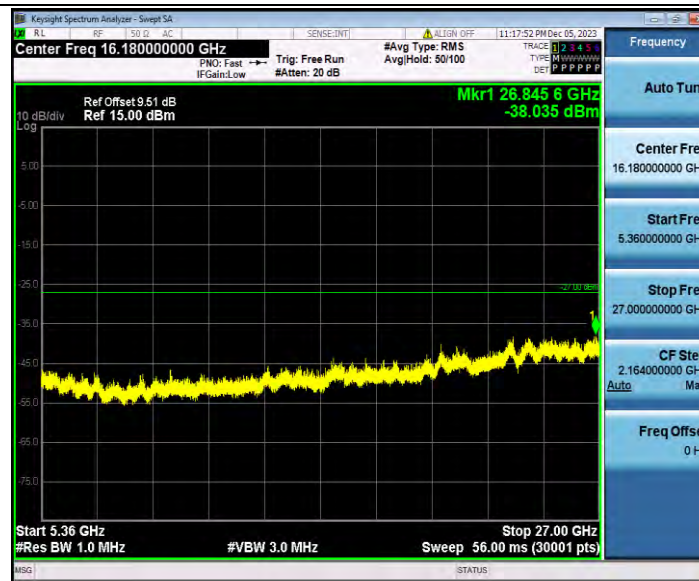
## 11N40SISO\_Ant2\_5230\_30~5140



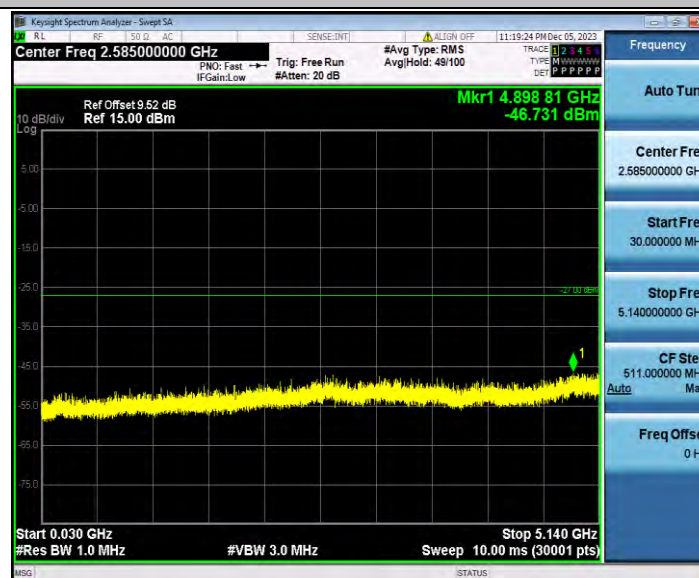
## 11N40SISO\_Ant2\_5230\_5360~40000



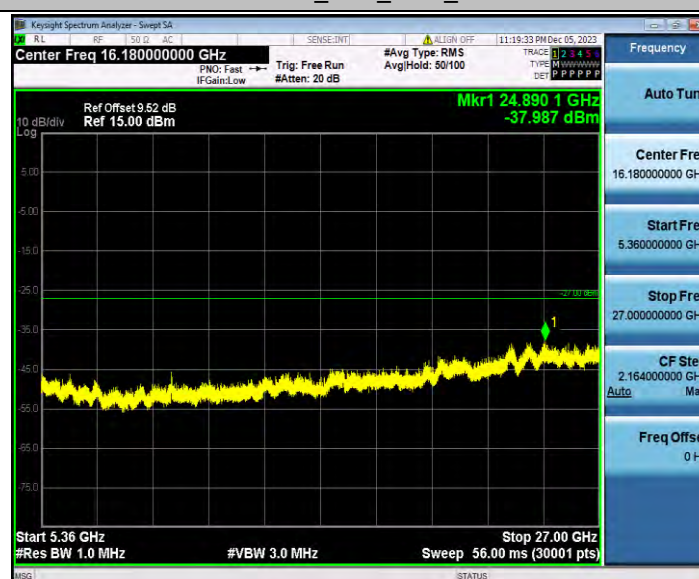
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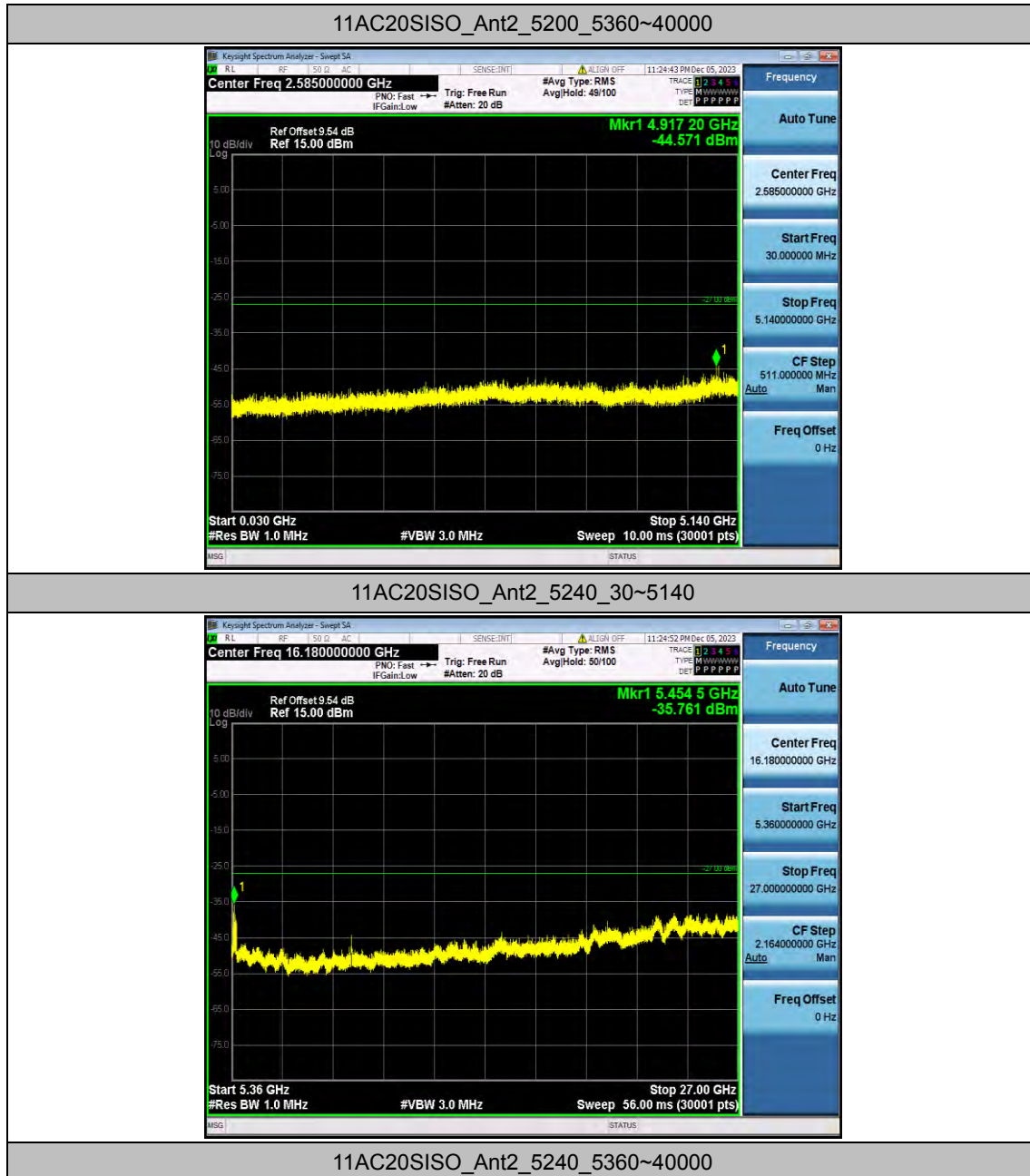


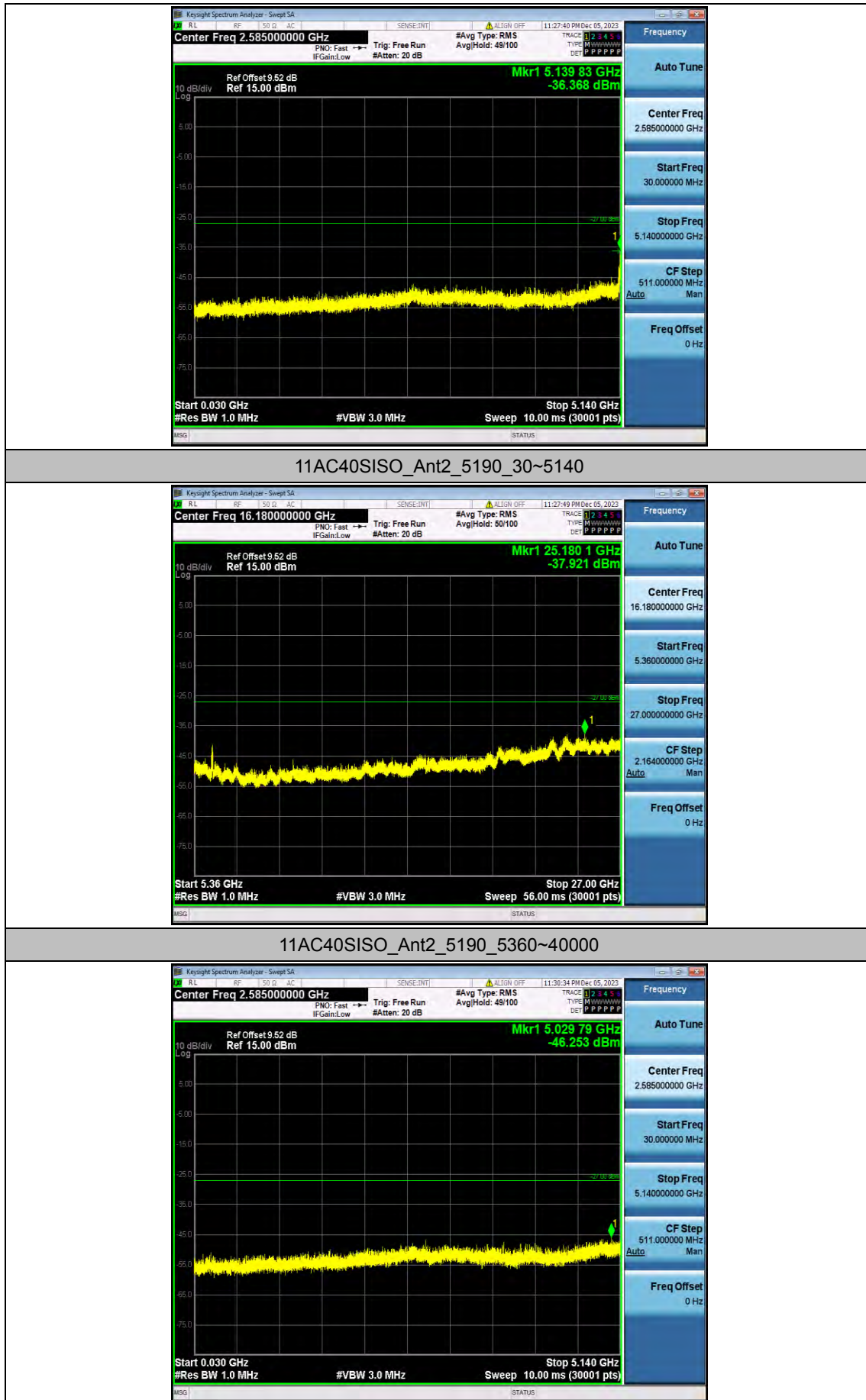
11AC20SISO\_Ant2\_5180\_5360~40000



11AC20SISO\_Ant2\_5200\_30~5140



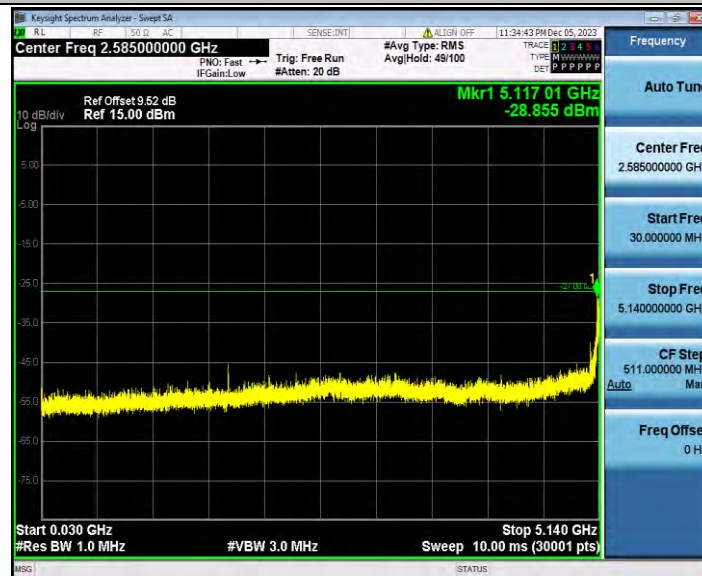




## 11AC40SISO\_Ant2\_5230\_30~5140



## 11AC40SISO\_Ant2\_5230\_5360~40000



## 11AC80SISO\_Ant2\_5210\_30~5140

