

|                                                  |                           |
|--------------------------------------------------|---------------------------|
| Case No. : GTS20221202017-1-9                    |                           |
| Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa, |                           |
| Test Date: 2022.12.26                            | Test Engineer: Jenny zeng |

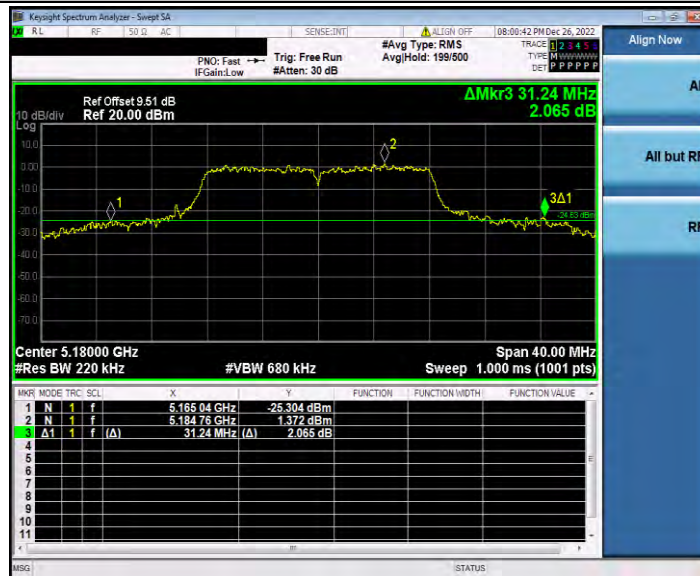
## Appendix B.1: Emission Bandwidth

### Test Result

| TestMode   | Antenna | Frequency[MHz] | 26db<br>EBW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|----------------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5180           | 31.240               | 5165.040 | 5196.280 | ---        | ---     |
|            |         | 5200           | 33.680               | 5183.640 | 5217.320 | ---        | ---     |
|            |         | 5240           | 34.640               | 5223.320 | 5257.960 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 27.640               | 5168.600 | 5196.240 | ---        | ---     |
|            |         | 5200           | 37.320               | 5182.400 | 5219.720 | ---        | ---     |
|            |         | 5240           | 39.000               | 5220.800 | 5259.800 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 79.680               | 5150.320 | 5230.000 | ---        | ---     |
|            |         | 5230           | 77.680               | 5190.640 | 5268.320 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180           | 36.080               | 5162.160 | 5198.240 | ---        | ---     |
|            |         | 5200           | 36.000               | 5182.480 | 5218.480 | ---        | ---     |
|            |         | 5240           | 36.760               | 5223.120 | 5259.880 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190           | 72.800               | 5156.320 | 5229.120 | ---        | ---     |
|            |         | 5230           | 42.880               | 5208.640 | 5251.520 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210           | 85.120               | 5168.880 | 5254.000 | ---        | ---     |

## Test Graphs

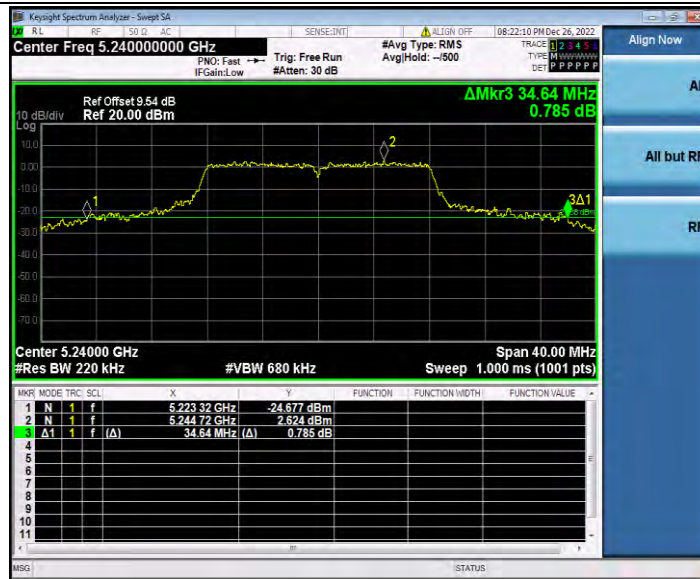
11A\_Ant1\_5180



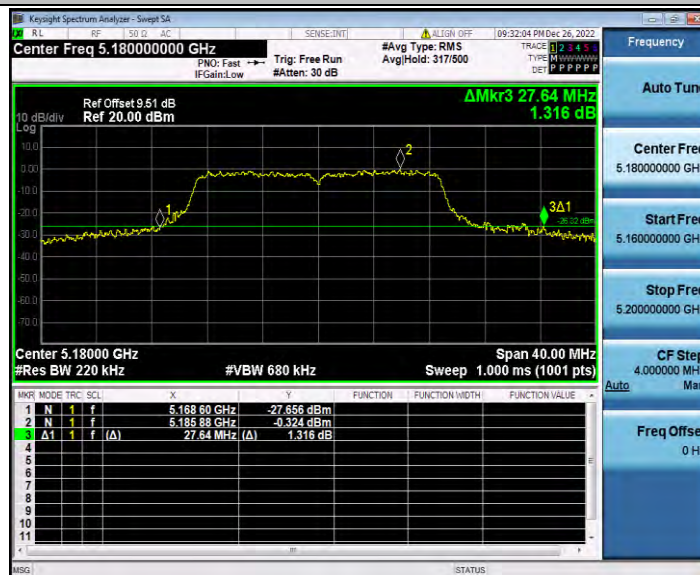
11A\_Ant1\_5200



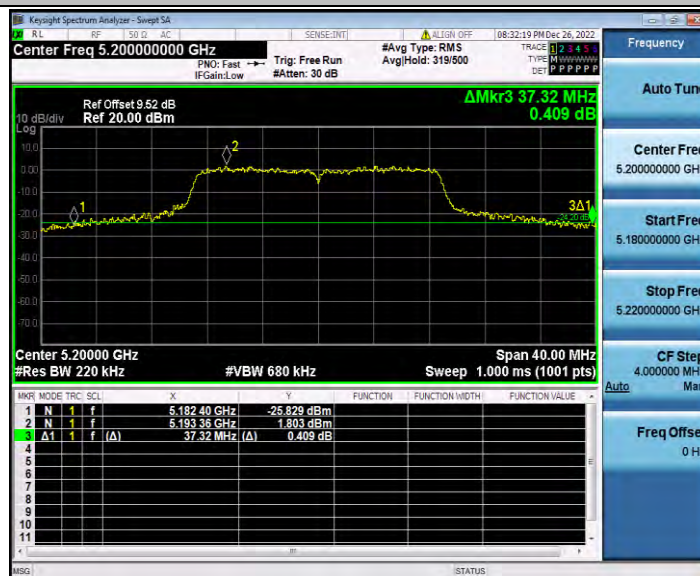
11A\_Ant1\_5240



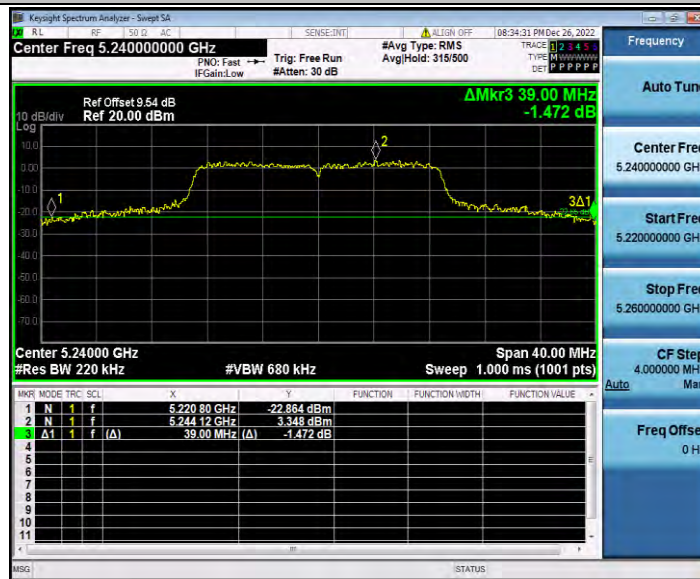
11N20SISO\_Ant1\_5180



11N20SISO\_Ant1\_5200



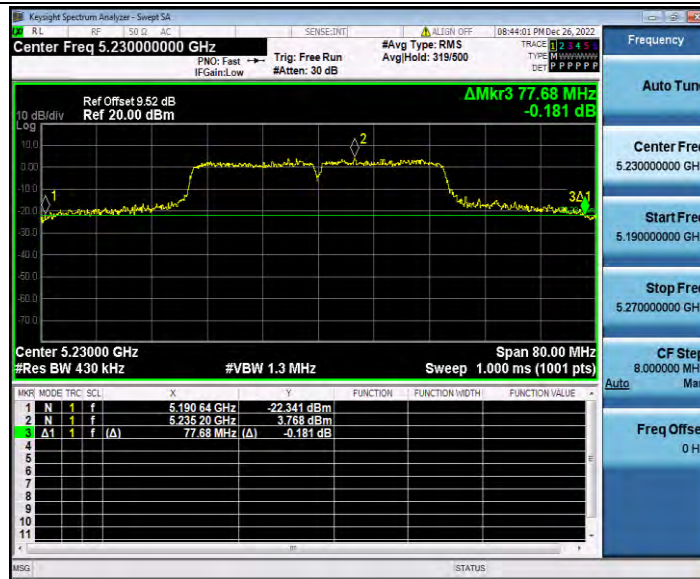
# 11N20SISO\_Ant1\_5240



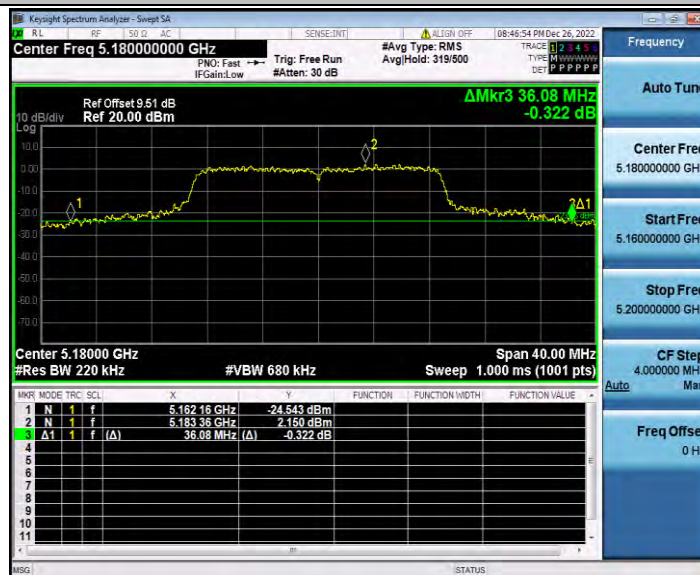
# 11N40SISO\_Ant1\_5190



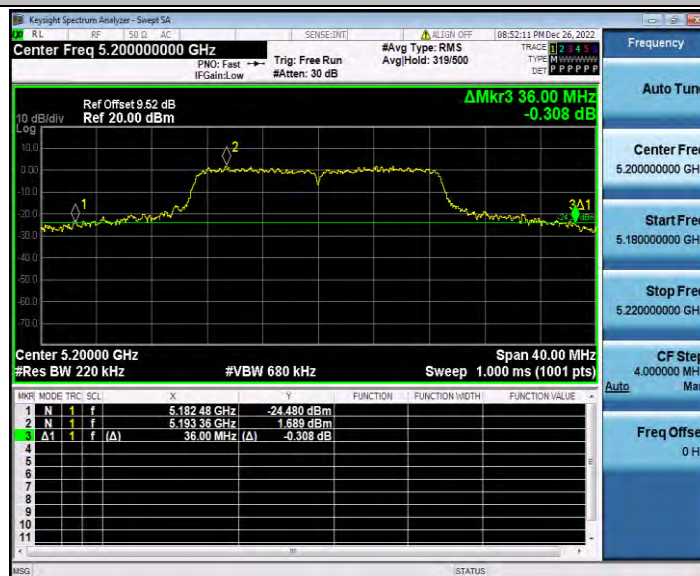
# 11N40SISO\_Ant1\_5230



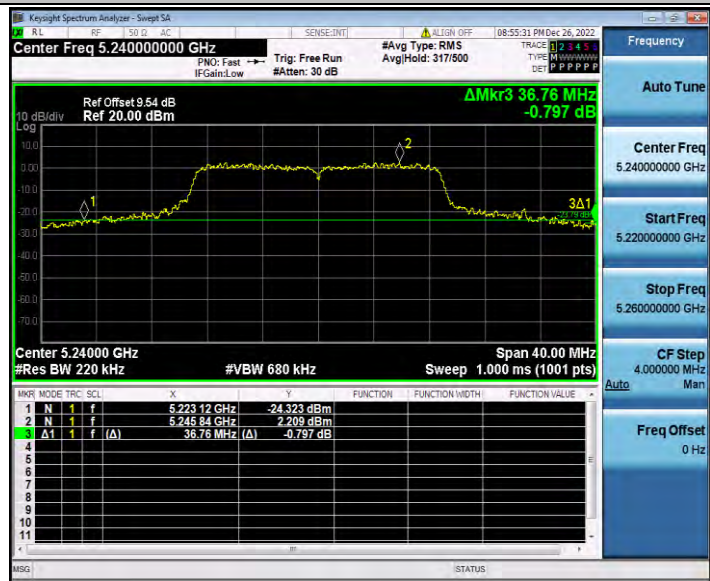
11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant1\_5240



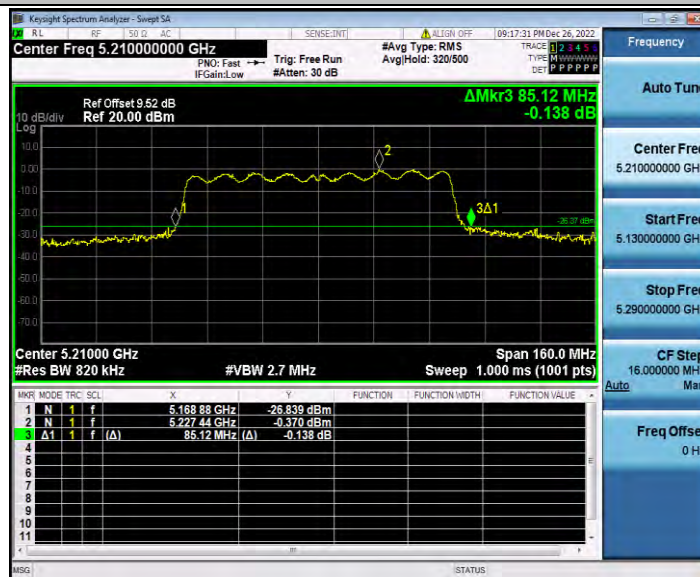
11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210



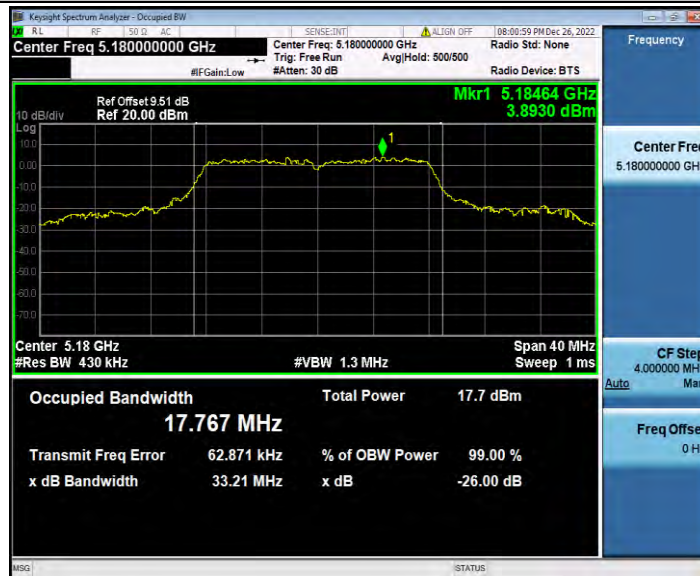
## Appendix B.2: Occupied channel bandwidth

### Test Result

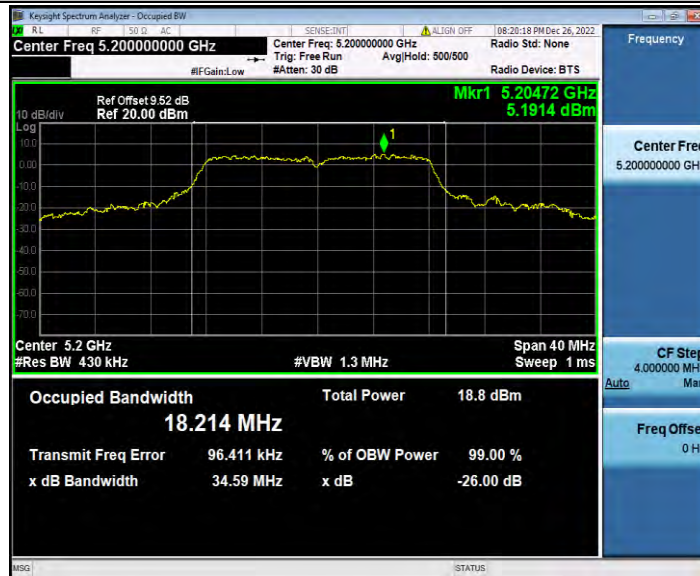
| TestMode   | Antenna | Frequency[MHz] | OCB<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|--------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5180           | 17.767       | 5171.179 | 5188.946 | ---        | ---     |
|            |         | 5200           | 18.214       | 5190.989 | 5209.203 | ---        | ---     |
|            |         | 5240           | 18.153       | 5230.912 | 5249.065 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 21.115       | 5170.174 | 5191.289 | ---        | ---     |
|            |         | 5200           | 19.137       | 5190.514 | 5209.651 | ---        | ---     |
|            |         | 5240           | 20.192       | 5230.289 | 5250.481 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 39.679       | 5171.040 | 5210.719 | ---        | ---     |
|            |         | 5230           | 41.229       | 5210.497 | 5251.726 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180           | 19.739       | 5170.511 | 5190.250 | ---        | ---     |
|            |         | 5200           | 19.103       | 5190.587 | 5209.690 | ---        | ---     |
|            |         | 5240           | 18.707       | 5230.668 | 5249.375 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190           | 37.626       | 5171.409 | 5209.035 | ---        | ---     |
|            |         | 5230           | 36.858       | 5211.687 | 5248.545 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210           | 76.182       | 5172.180 | 5248.362 | ---        | ---     |

## Test Graphs

11A\_Ant1\_5180



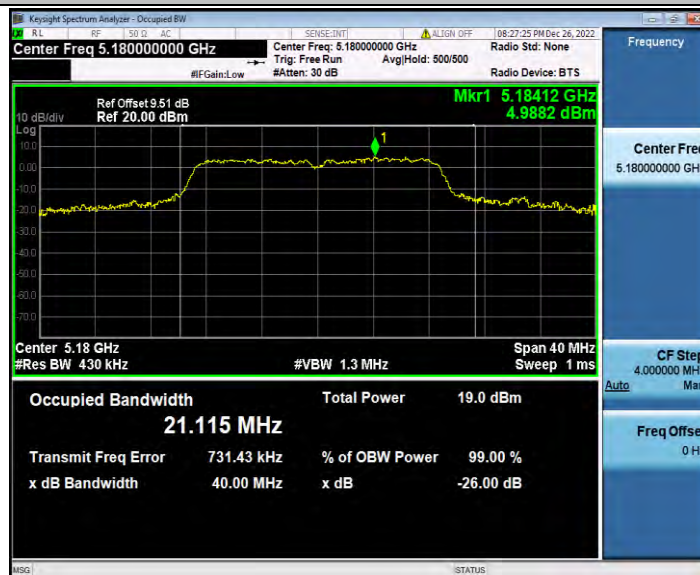
11A\_Ant1\_5200



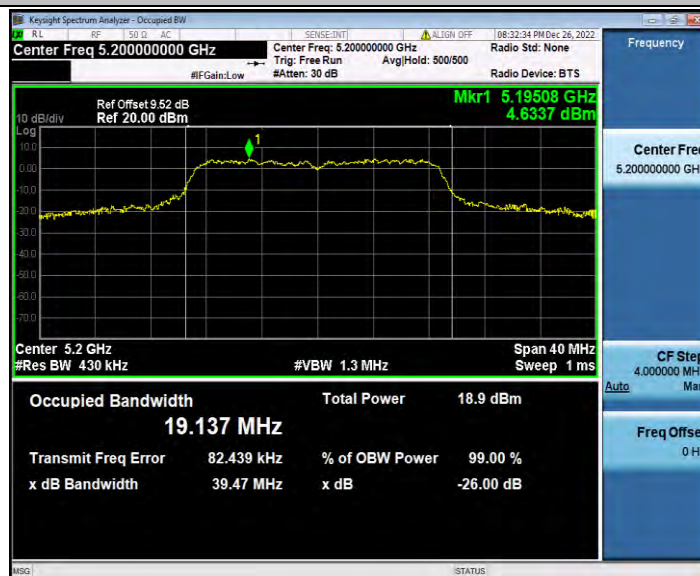
11A\_Ant1\_5240



11N20SISO\_Ant1\_5180



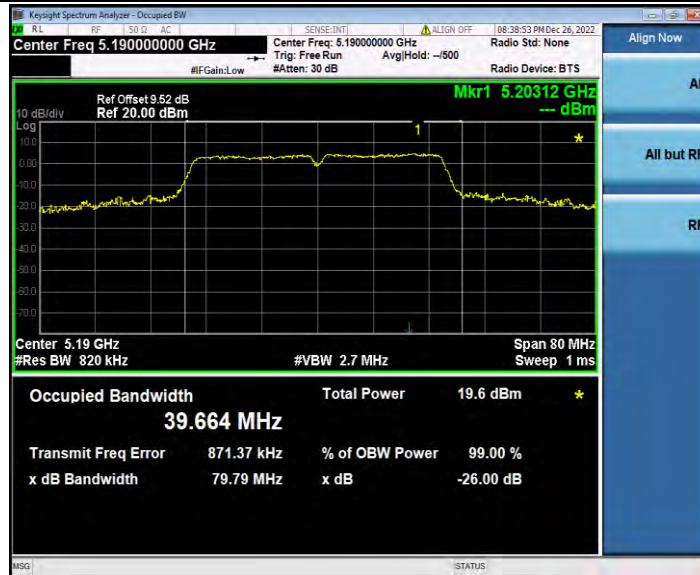
11N20SISO\_Ant1\_5200



# 11N20SISO\_Ant1\_5240



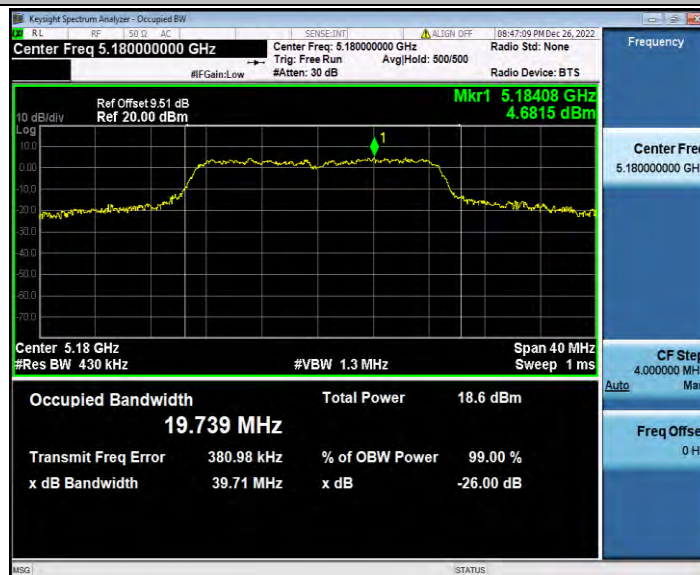
# 11N40SISO\_Ant1\_5190



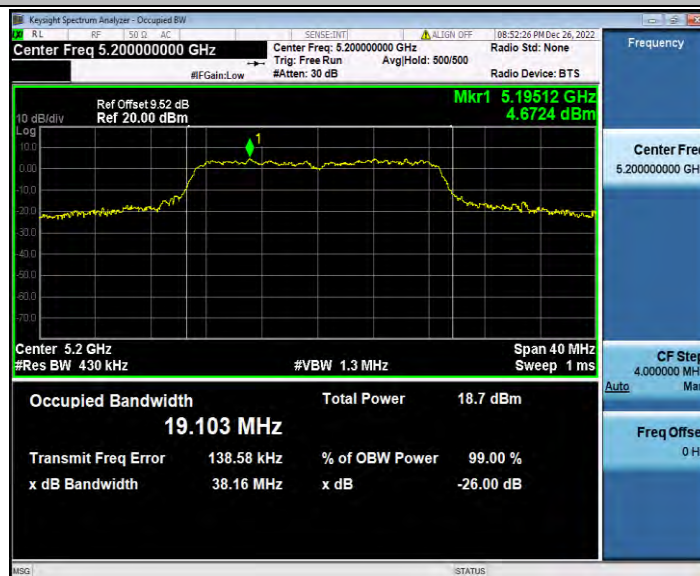
# 11N40SISO\_Ant1\_5230



11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant1\_5200



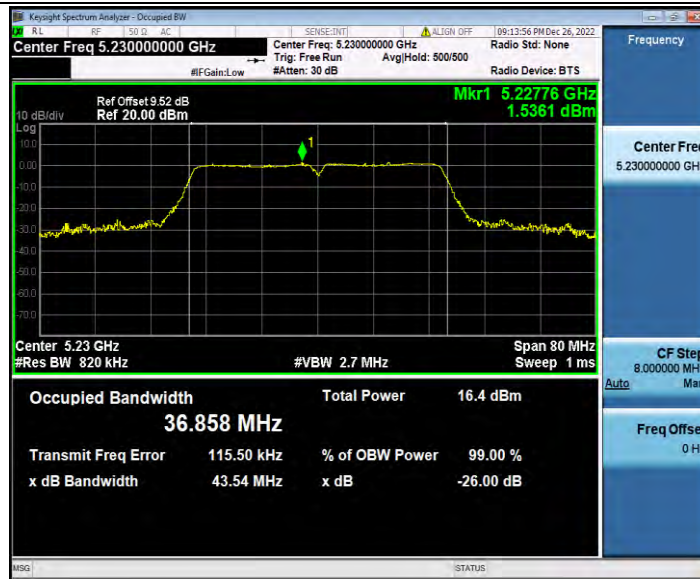
11AC20SISO\_Ant1\_5240



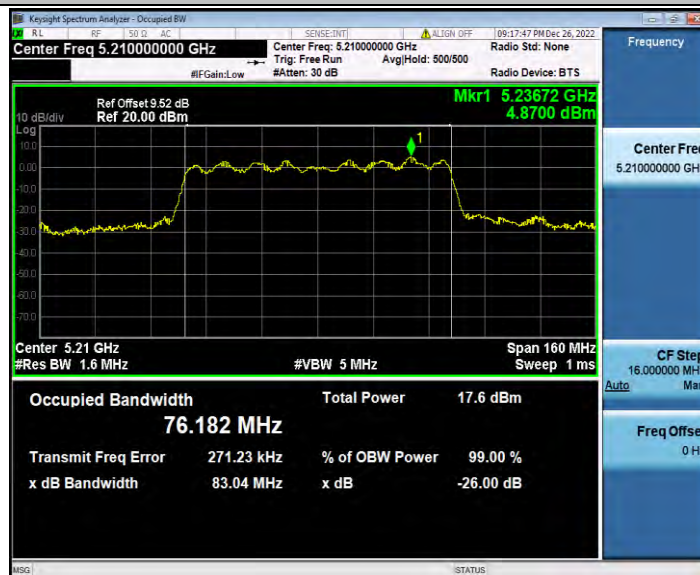
11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210



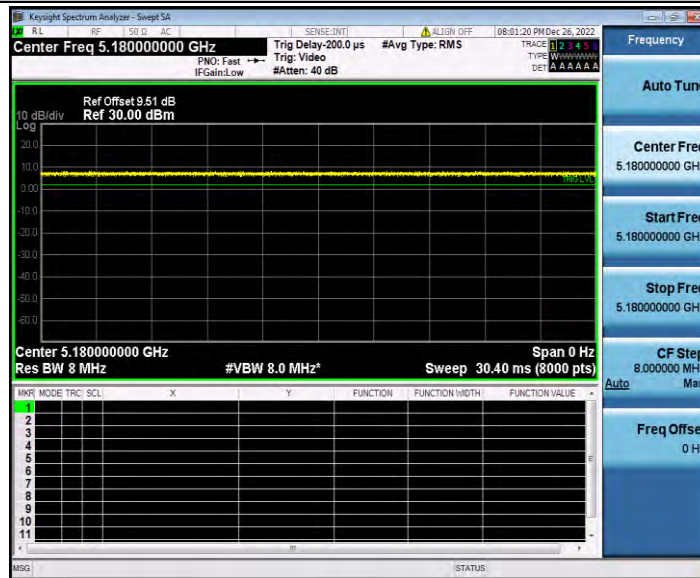
## Appendix B.3: Duty Cycle

### Test Result

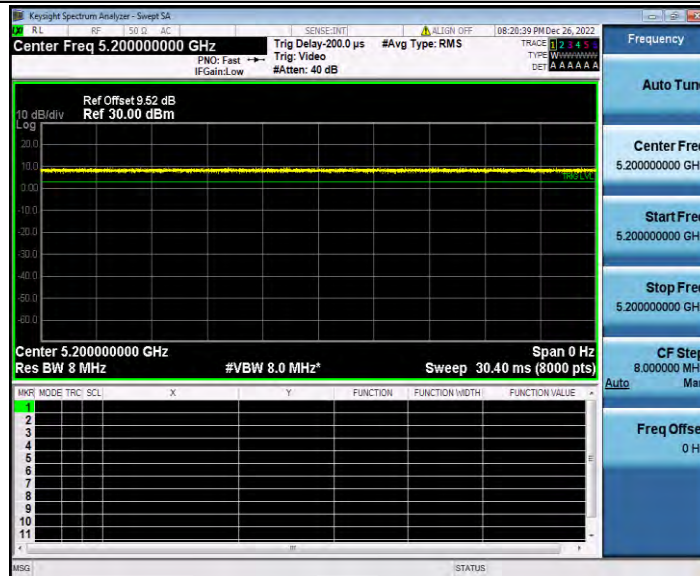
| TestMode   | Antenna | Frequency[MHz] | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] |
|------------|---------|----------------|-------------------------------|-----------------------------|-------------------|
| 11A        | Ant1    | 5180           | 30.00                         | 30.00                       | 100.00            |
|            |         | 5200           | 30.00                         | 30.00                       | 100.00            |
|            |         | 5240           | 30.00                         | 30.00                       | 100.00            |
| 11N20SISO  | Ant1    | 5180           | 30.00                         | 30.00                       | 100.00            |
|            |         | 5200           | 30.00                         | 30.00                       | 100.00            |
|            |         | 5240           | 30.00                         | 30.00                       | 100.00            |
| 11N40SISO  | Ant1    | 5190           | 30.00                         | 30.00                       | 100.00            |
|            |         | 5230           | 30.00                         | 30.00                       | 100.00            |
| 11AC20SISO | Ant1    | 5180           | 30.00                         | 30.00                       | 100.00            |
|            |         | 5200           | 30.00                         | 30.00                       | 100.00            |
|            |         | 5240           | 30.00                         | 30.00                       | 100.00            |
| 11AC40SISO | Ant1    | 5190           | 30.00                         | 30.00                       | 100.00            |
|            |         | 5230           | 30.00                         | 30.00                       | 100.00            |
| 11AC80SISO | Ant1    | 5210           | 30.00                         | 30.00                       | 100.00            |

## Test Graphs

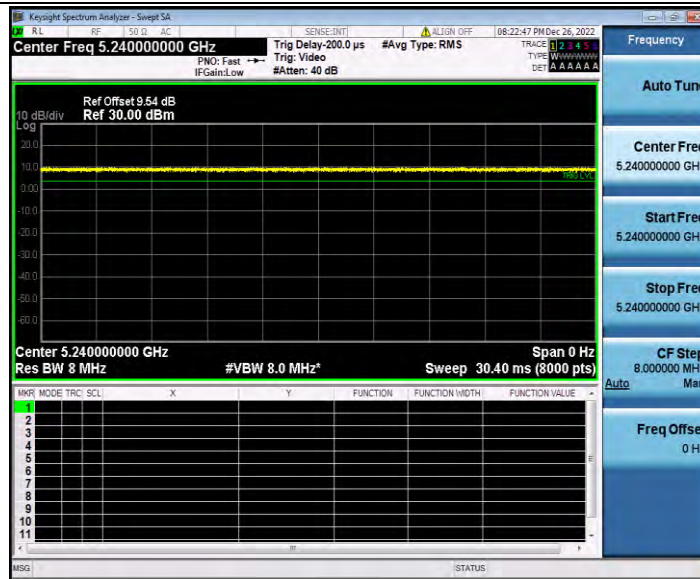
11A\_Ant1\_5180



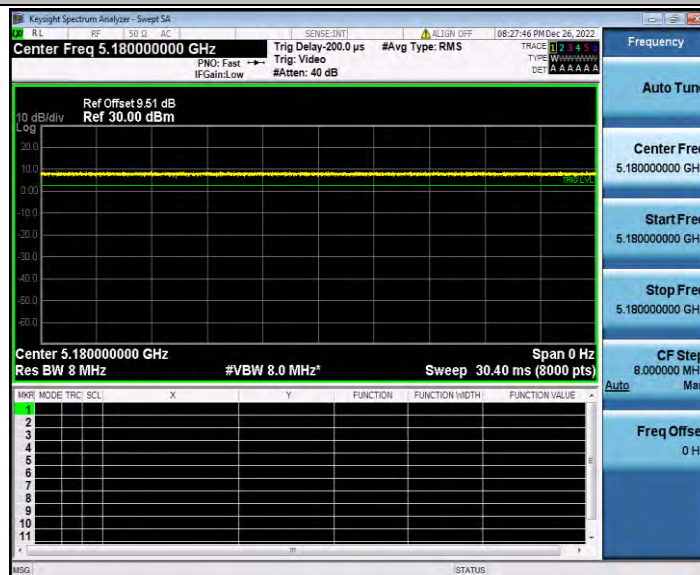
11A\_Ant1\_5200



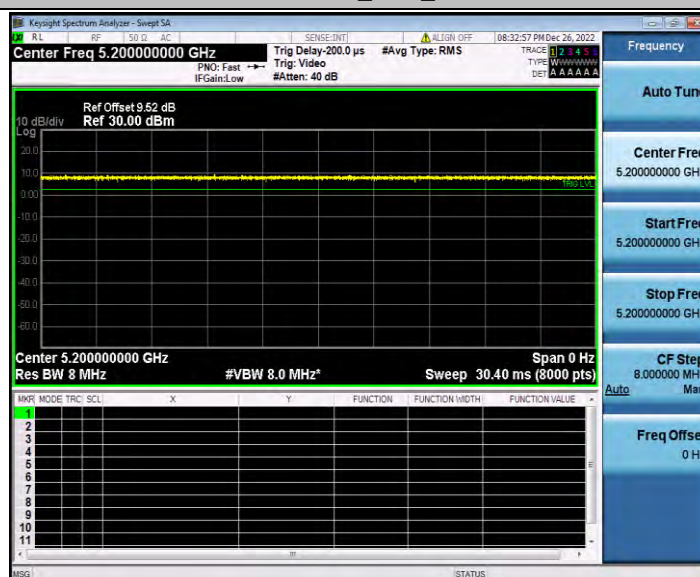
11A\_Ant1\_5240



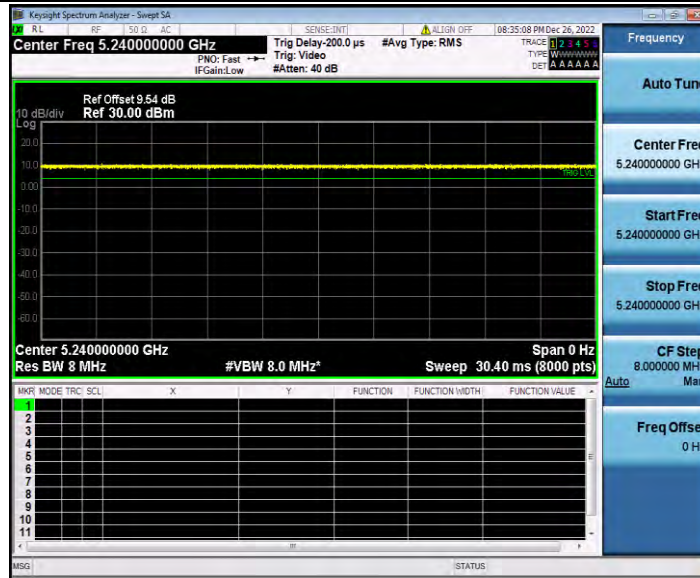
11N20SISO\_Ant1\_5180



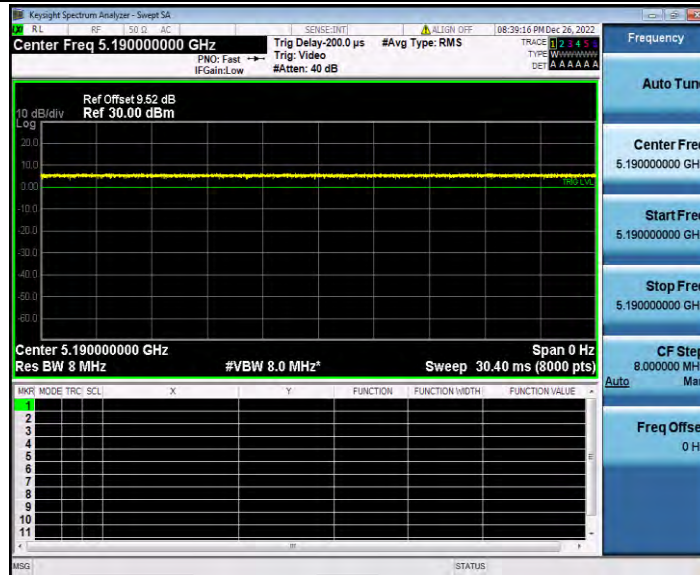
11N20SISO\_Ant1\_5200



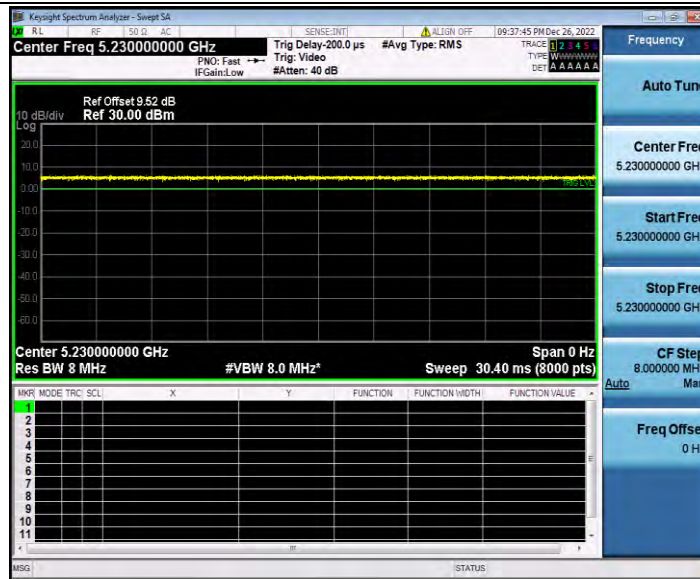
# 11N20SISO\_Ant1\_5240



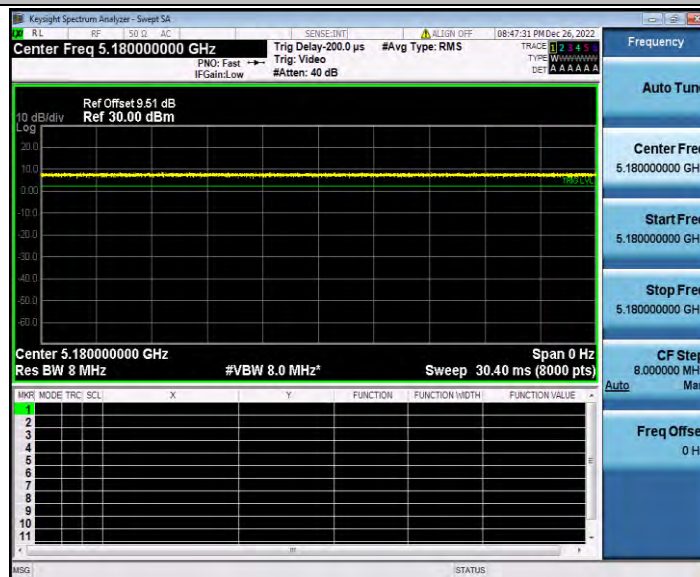
# 11N40SISO\_Ant1\_5190



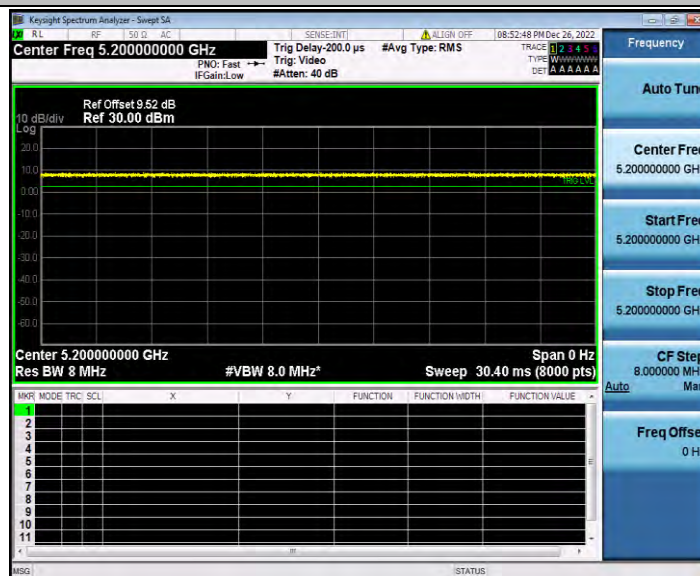
# 11N40SISO\_Ant1\_5230



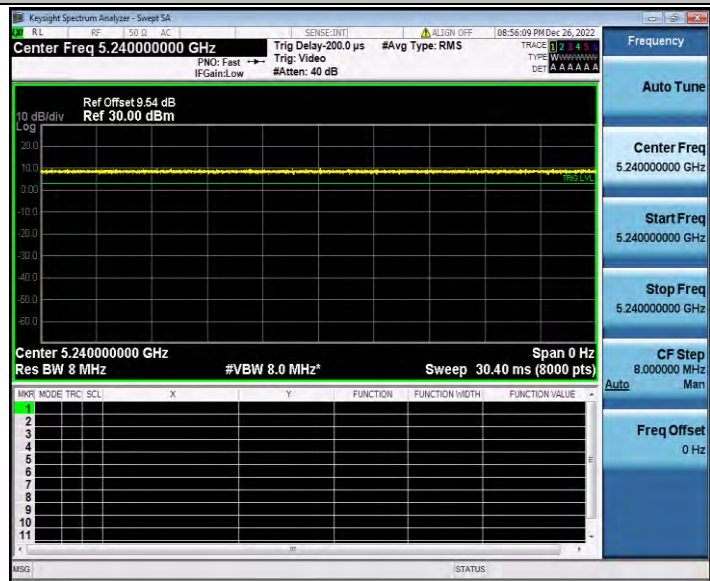
11AC20SISO\_Ant1\_5180



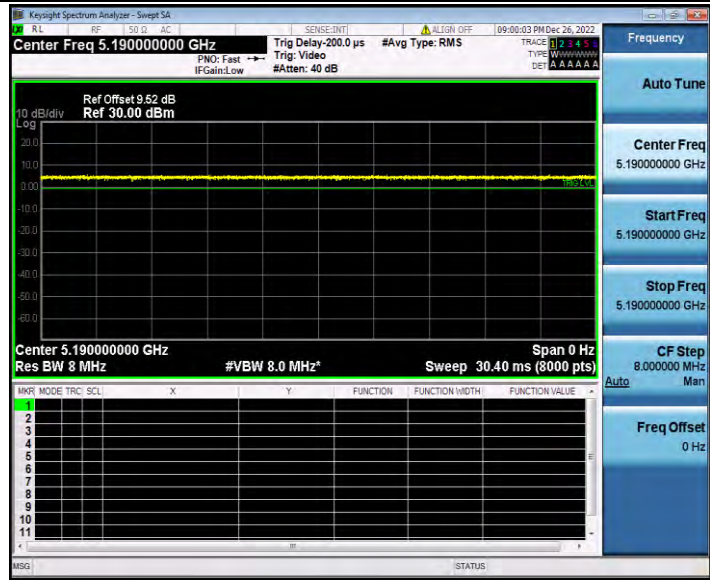
11AC20SISO\_Ant1\_5200



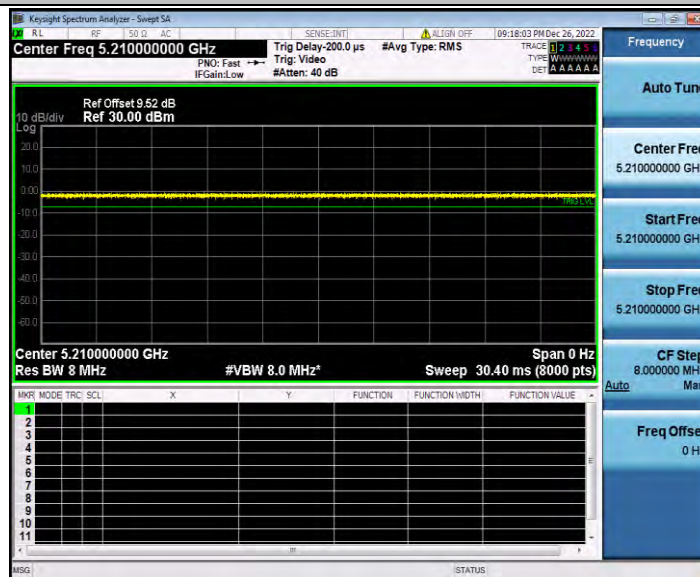
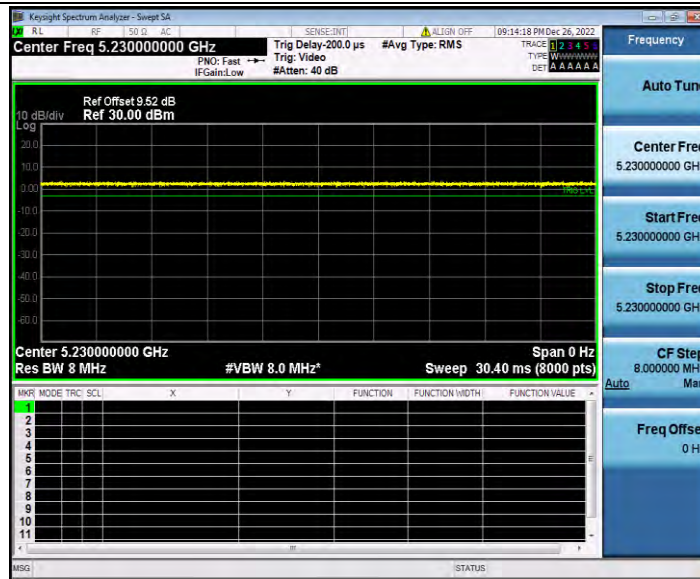
11AC20SISO\_Ant1\_5240



11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



## Appendix B.4: Maximum conducted output power

### Test Result Channel Power

| Test Mode  | Antenna | Frequency[M Hz] | Channel Powert [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|-----------------|----------------------|----------------|-----------------|--------------|-------------|---------|
| 11A        | Ant1    | 5180            | 11.07                | 100.00         | 0.00            | 11.07        | ≤23.98      | PASS    |
|            |         | 5200            | 11.91                | 100.00         | 0.00            | 11.91        | ≤23.98      | PASS    |
|            |         | 5240            | 12.64                | 100.00         | 0.00            | 12.64        | ≤23.98      | PASS    |
| 11N20SISO  | Ant1    | 5180            | 11.92                | 100.00         | 0.00            | 11.92        | ≤23.98      | PASS    |
|            |         | 5200            | 11.99                | 100.00         | 0.00            | 11.99        | ≤23.98      | PASS    |
|            |         | 5240            | 13.30                | 100.00         | 0.00            | 13.30        | ≤23.98      | PASS    |
| 11N40SISO  | Ant1    | 5190            | 12.05                | 100.00         | 0.00            | 12.05        | ≤23.98      | PASS    |
|            |         | 5230            | 10.24                | 100.00         | 0.00            | 10.24        | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5180            | 11.39                | 100.00         | 0.00            | 11.39        | ≤23.98      | PASS    |
|            |         | 5200            | 11.82                | 100.00         | 0.00            | 11.82        | ≤23.98      | PASS    |
|            |         | 5240            | 12.33                | 100.00         | 0.00            | 12.33        | ≤23.98      | PASS    |
| 11AC40SISO | Ant1    | 5190            | 11.21                | 100.00         | 0.00            | 11.21        | ≤23.98      | PASS    |
|            |         | 5230            | 9.12                 | 100.00         | 0.00            | 9.12         | ≤23.98      | PASS    |
| 11AC80SISO | Ant1    | 5210            | 8.55                 | 100.00         | 0.00            | 8.55         | ≤23.98      | PASS    |

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

## Appendix B.5: Maximum power spectral density

### Test Result

| TestMode   | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|------------------|----------------|---------|
| 11A        | Ant1    | 5180           | -0.44            | ≤11.00         | PASS    |
|            |         | 5200           | 0.36             | ≤11.00         | PASS    |
|            |         | 5240           | 1.08             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5180           | 0.19             | ≤11.00         | PASS    |
|            |         | 5200           | 0.2              | ≤11.00         | PASS    |
|            |         | 5240           | 1.57             | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5190           | -2.37            | ≤11.00         | PASS    |
|            |         | 5230           | 2.16             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5180           | -0.27            | ≤11.00         | PASS    |
|            |         | 5200           | 0.12             | ≤11.00         | PASS    |
|            |         | 5240           | 0.68             | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5190           | -3.18            | ≤11.00         | PASS    |
|            |         | 5230           | -5.35            | ≤11.00         | PASS    |
| 11AC80SISO | Ant1    | 5210           | -7.47            | ≤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



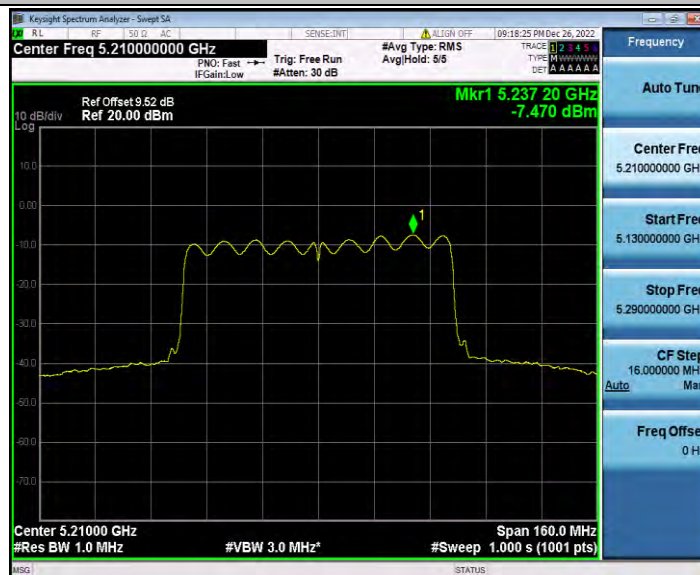
11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210



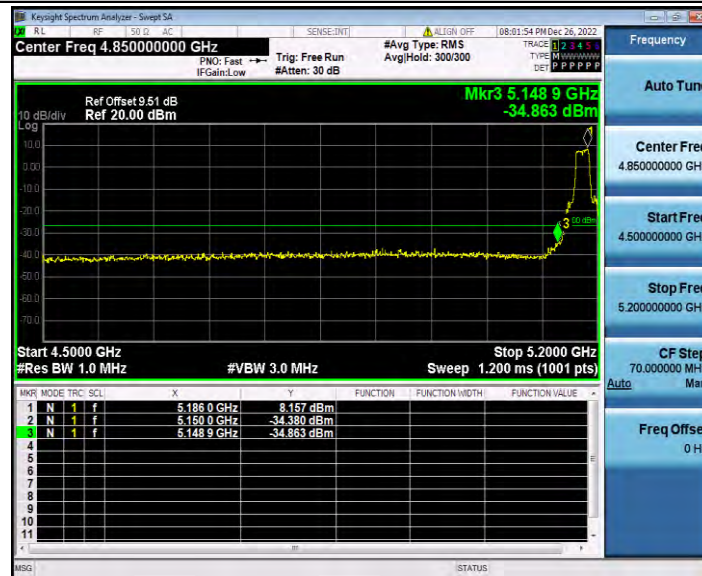
## Appendix B.6: Band edge measurements

### Test Result B1

| TestMode   | Antenna | ChName | Frequency[MHz] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------|----------------|-------------|------------|---------|
| 11A        | Ant1    | Low    | 5180           | -34.86      | ≤-27       | PASS    |
|            |         | High   | 5240           | -37.22      | ≤-27       | PASS    |
| 11N20SISO  | Ant1    | Low    | 5180           | -31.7       | ≤-27       | PASS    |
|            |         | High   | 5240           | -37.71      | ≤-27       | PASS    |
| 11N40SISO  | Ant1    | Low    | 5190           | -27.66      | ≤-27       | PASS    |
|            |         | High   | 5230           | -38.57      | ≤-27       | PASS    |
| 11AC20SISO | Ant1    | Low    | 5180           | -34.49      | ≤-27       | PASS    |
|            |         | High   | 5240           | -37.79      | ≤-27       | PASS    |
| 11AC40SISO | Ant1    | Low    | 5190           | -32.78      | ≤-27       | PASS    |
|            |         | High   | 5230           | -37.85      | ≤-27       | PASS    |
| 11AC80SISO | Ant1    | Low    | 5210           | -28.68      | ≤-27       | PASS    |
|            |         | High   | 5210           | -38.43      | ≤-27       | PASS    |

## Test Graphs B1

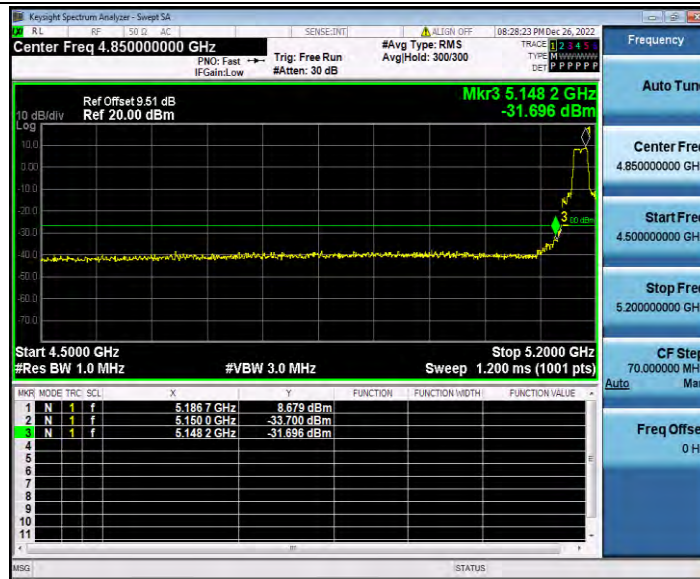
11A\_Ant1\_Low\_5180



11A\_Ant1\_High\_5240



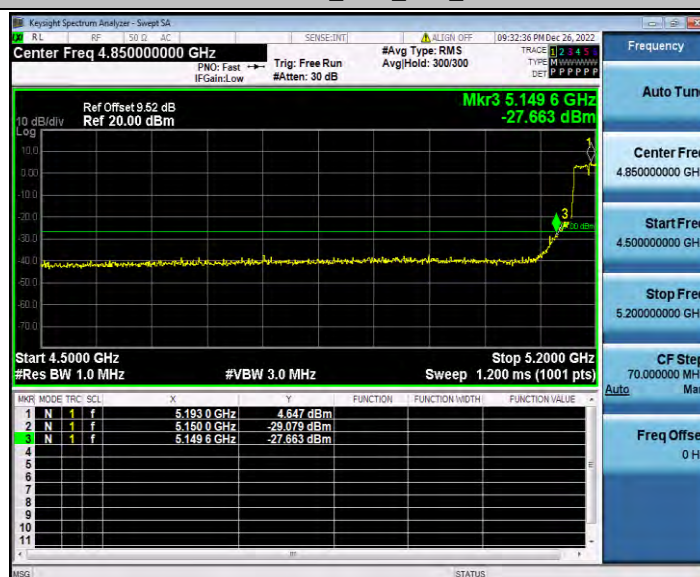
11N20SISO\_Ant1\_Low\_5180



11N20SISO\_Ant1\_High\_5240



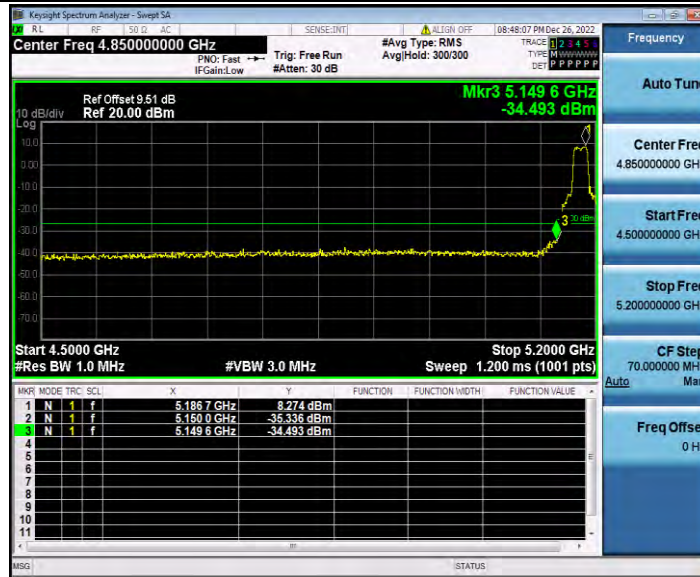
11N40SISO\_Ant1\_Low\_5190



# 11N40SISO\_Ant1\_High\_5230



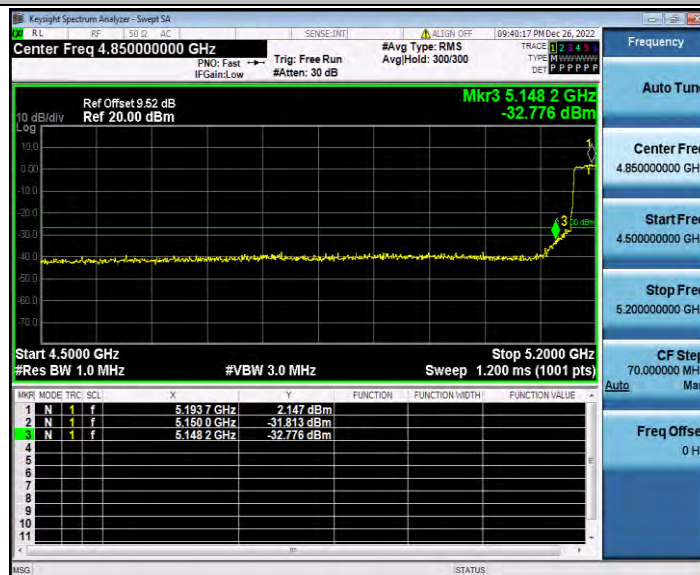
# 11AC20SISO\_Ant1\_Low\_5180



# 11AC20SISO\_Ant1\_High\_5240



11AC40SISO\_Ant1\_Low\_5190



11AC40SISO\_Ant1\_High\_5230



# 11AC80SISO\_Ant1\_Low\_5210



# 11AC80SISO\_Ant1\_High\_5210



## Appendix A.7: Conducted Spurious Emission

### Test Result

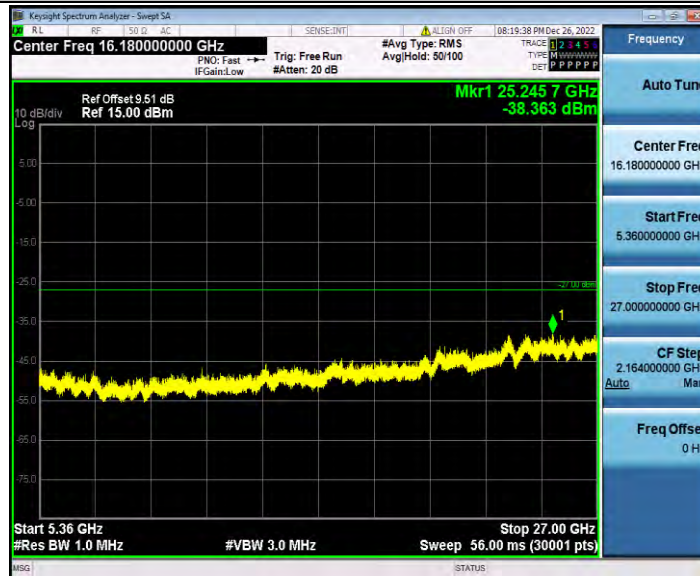
| TestMode   | Antenna | Frequency[MHz] | FreqRange [MHz] | Max. Fre [MHz] | Max. Level [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|-----------------|----------------|------------------|-------------|---------|
| 11A        | Ant1    | 5180           | 30~5140         | 5139.15        | -44.04           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 25245.72       | -38.36           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 2987.33        | -47.7            | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 25485.2        | -37.7            | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 3468.52        | -46.88           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26863.67       | -38.46           | ≤-27        | PASS    |
| 11N20SISO  | Ant1    | 5180           | 30~5140         | 5135.74        | -39.94           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24264.7        | -38.41           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 3153.06        | -47.23           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 23510.91       | -38.5            | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 2714.96        | -47.2            | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 25994.46       | -38.34           | ≤-27        | PASS    |
| 11N40SISO  | Ant1    | 5190           | 30~5140         | 5139.15        | -29.85           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 25136.8        | -37.66           | ≤-27        | PASS    |
|            |         | 5230           | 30~5140         | 5133.87        | -41.18           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26790.09       | -38.5            | ≤-27        | PASS    |
| 11AC20SISO | Ant1    | 5180           | 30~5140         | 5138.64        | -40.87           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26495.79       | -37.68           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 5139.66        | -43.85           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26510.21       | -37.63           | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 2546.68        | -47.15           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24212.05       | -37.92           | ≤-27        | PASS    |
| 11AC40SISO | Ant1    | 5190           | 30~5140         | 5140           | -35.85           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 25625.86       | -37.8            | ≤-27        | PASS    |
|            |         | 5230           | 30~5140         | 3154.25        | -47.15           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 25463.56       | -37.73           | ≤-27        | PASS    |
| 11AC80SISO | Ant1    | 5210           | 30~5140         | 5137.62        | -34.35           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24870.62       | -37.95           | ≤-27        | PASS    |

## Test Graphs

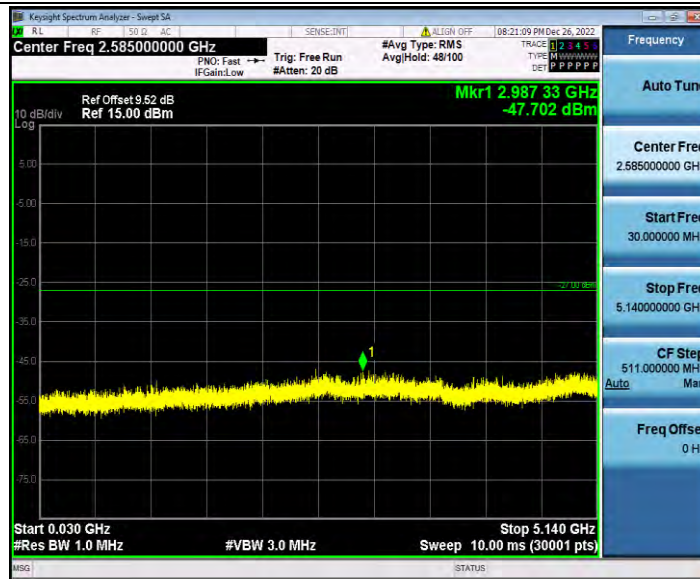
11A\_Ant1\_5180\_30~5140



11A\_Ant1\_5180\_5360~40000



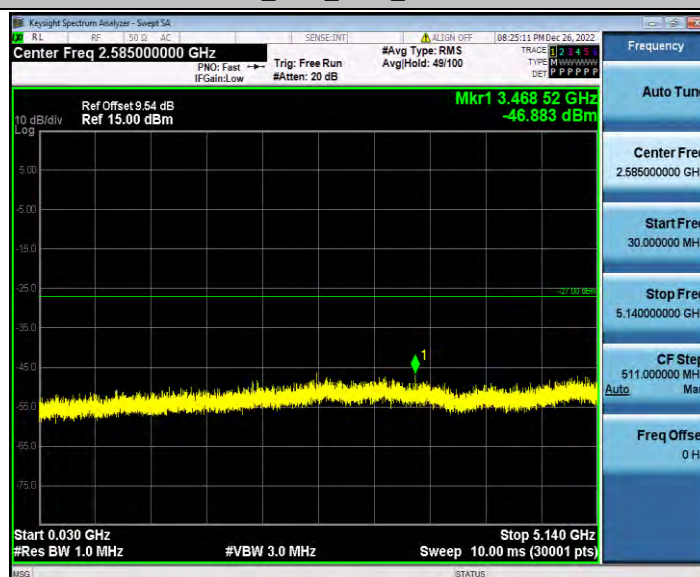
11A\_Ant1\_5200\_30~5140



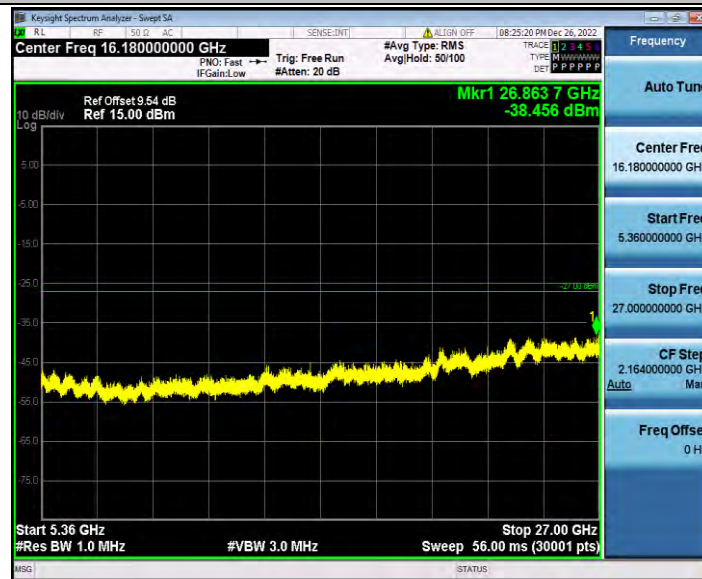
11A\_Ant1\_5200\_5360~40000



11A\_Ant1\_5240\_30~5140



# 11A\_Ant1\_5240\_5360~40000



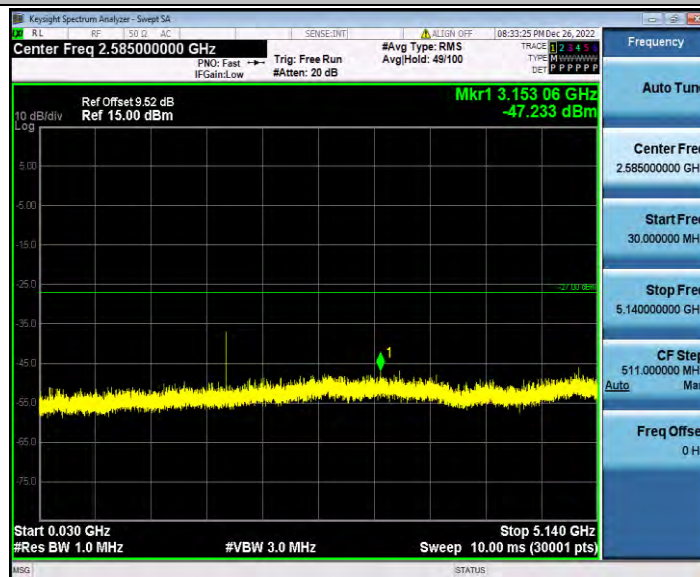
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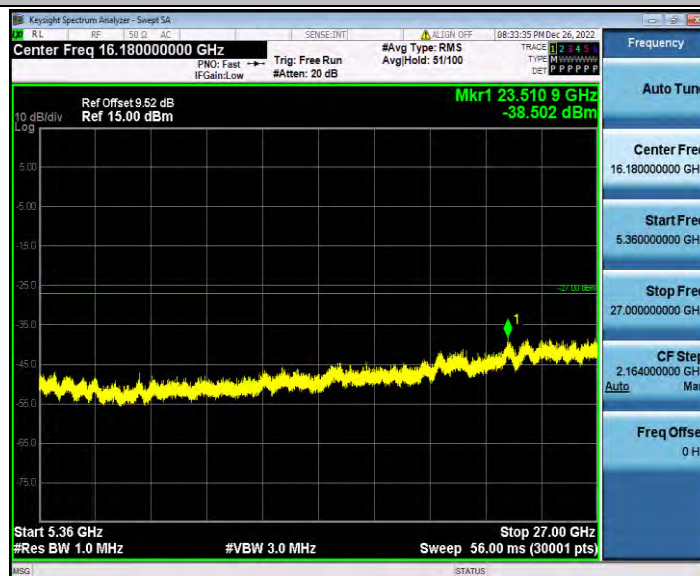
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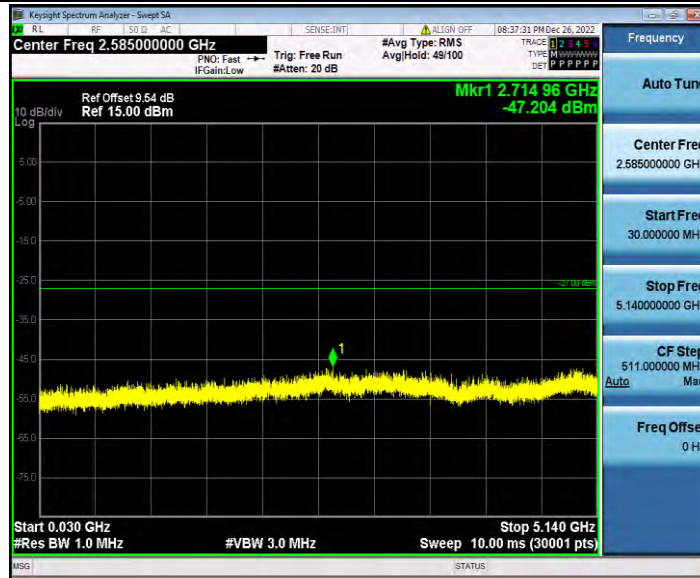
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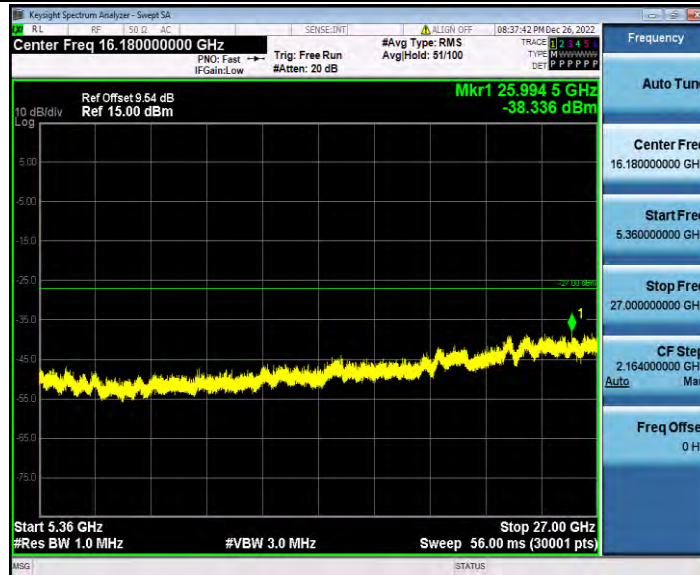
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# 11N20SISO\_Ant1\_5240\_30~5140



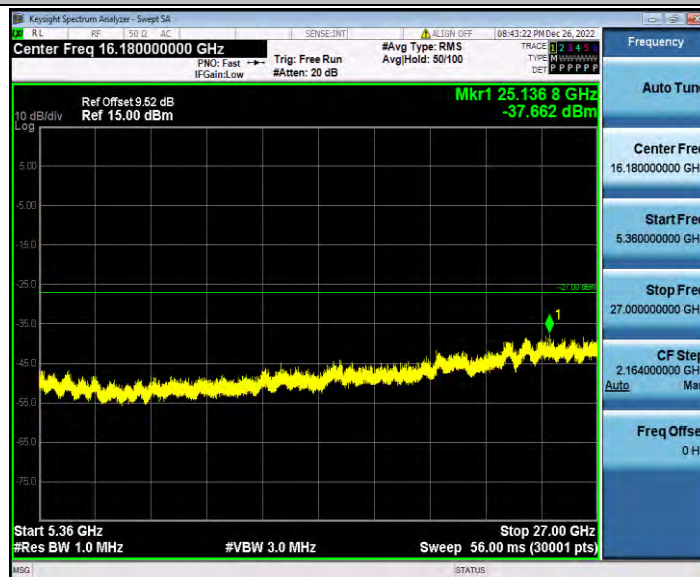
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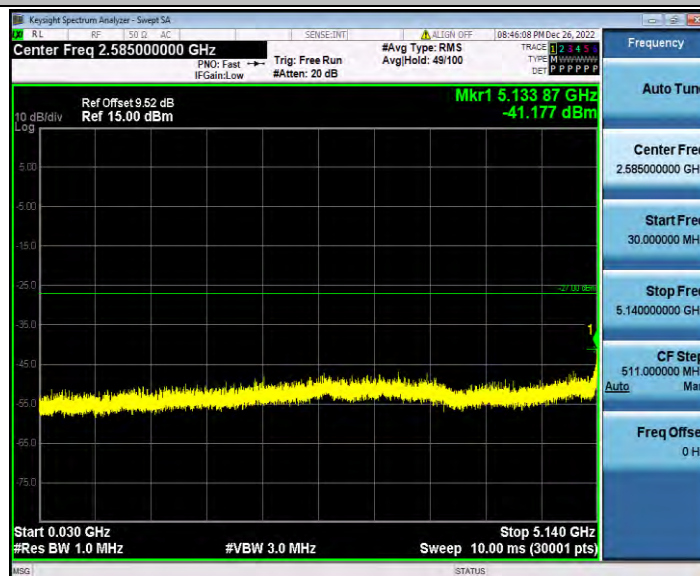
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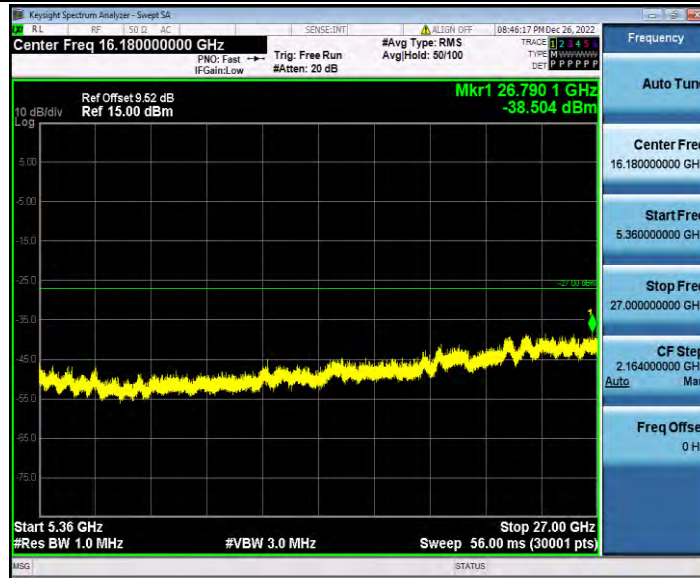
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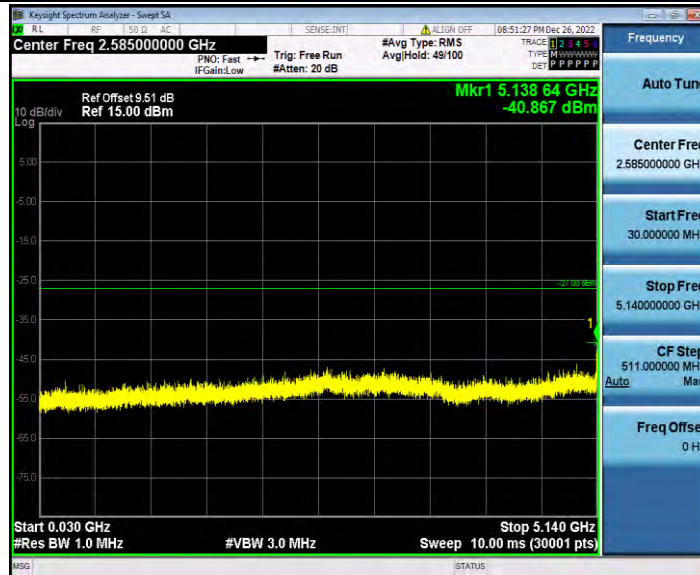
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# 11N40SISO\_Ant1\_5230\_5360~40000



# 11AC20SISO\_Ant1\_5180\_30~5140



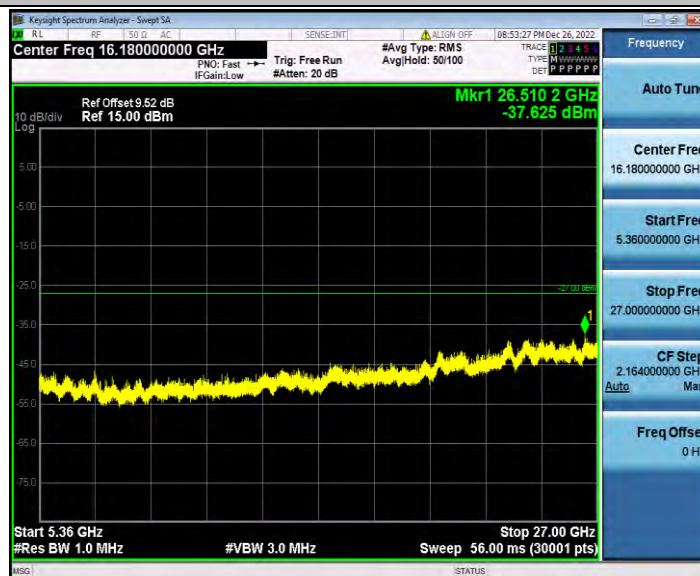
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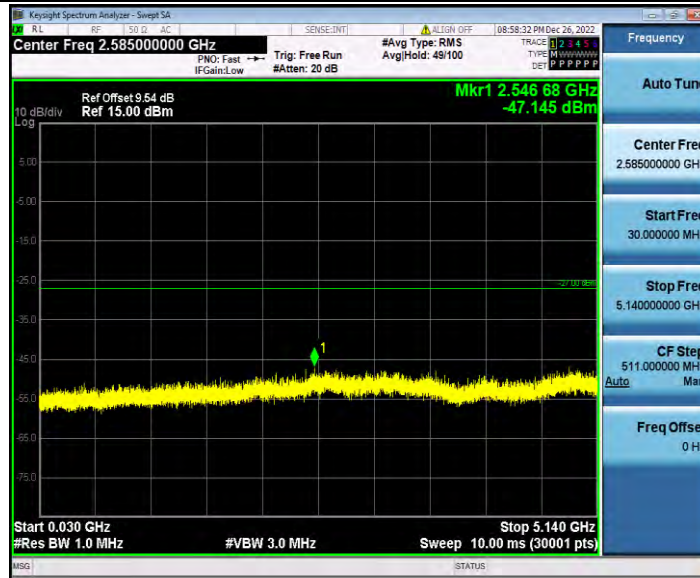
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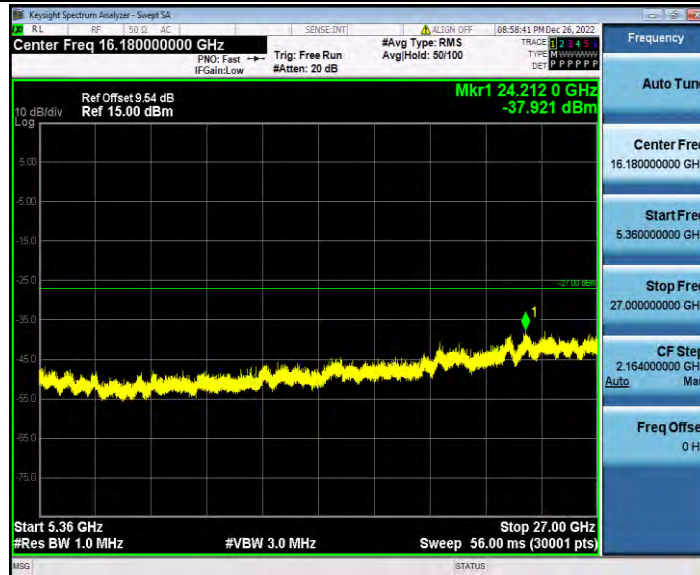
11AC20SISO\_Ant1\_5200\_5360~40000



# 11AC20SISO\_Ant1\_5240\_30~5140



# 11AC20SISO\_Ant1\_5240\_5360~40000



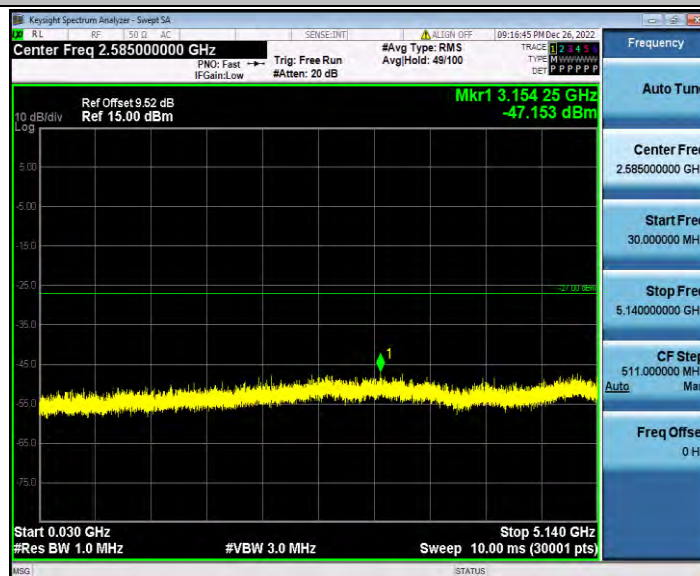
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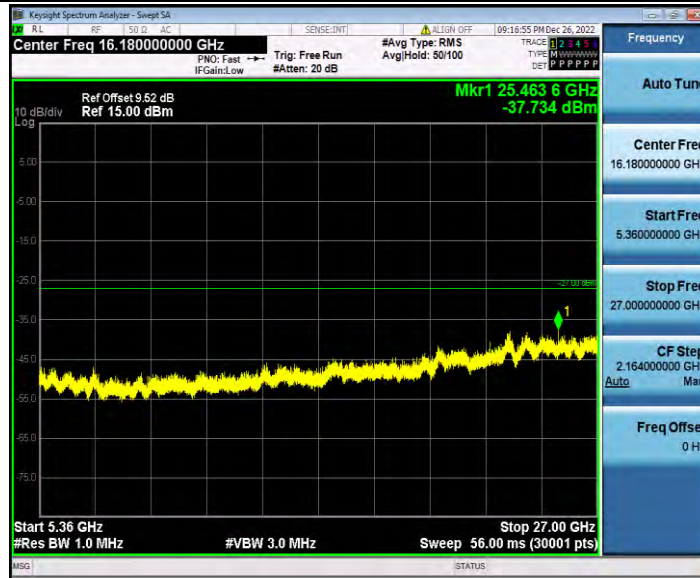
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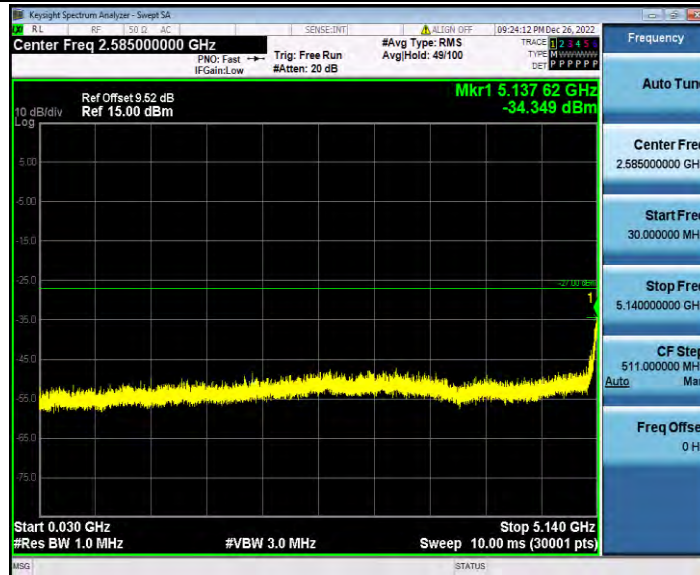
11AC40SISO\_Ant1\_5230\_30~5140



# 11AC40SISO\_Ant1\_5230\_5360~40000



# 11AC80SISO\_Ant1\_5210\_5360~40000



# 11AC80SISO\_Ant1\_5210\_5360~40000

