

|                                                                       |                                         |
|-----------------------------------------------------------------------|-----------------------------------------|
| <b>Case No. :</b> <u>GTS20221012010-1-26</u>                          |                                         |
| <b>Ambient Condition:</b> <u>26</u> °C, <u>50</u> %RH, Atmos100.1Kpa, |                                         |
| <b>Test Date:</b> <u>2022.11.18</u>                                   | <b>Test Engineer:</b> <u>Jenny zeng</u> |

## Appendix D.1: Emission Bandwidth

### Test Result

| TestMode   | Antenna | Frequency[MHz] | 26db EBW<br>[MHz] | FL[MHz]  | FH[MHz]  |
|------------|---------|----------------|-------------------|----------|----------|
| 11A        | Ant1    | 5180           | 19.840            | 5170.240 | 5190.080 |
|            |         | 5200           | 21.480            | 5189.720 | 5211.200 |
|            |         | 5240           | 23.560            | 5229.560 | 5253.120 |
| 11N20SISO  | Ant1    | 5180           | 20.200            | 5169.920 | 5190.120 |
|            |         | 5200           | 21.840            | 5189.800 | 5211.640 |
|            |         | 5240           | 21.200            | 5229.800 | 5251.000 |
| 11N40SISO  | Ant1    | 5190           | 40.720            | 5170.080 | 5210.800 |
|            |         | 5230           | 61.200            | 5200.000 | 5261.200 |
| 11AC20SISO | Ant1    | 5180           | 22.360            | 5169.760 | 5192.120 |
|            |         | 5200           | 20.400            | 5189.760 | 5210.160 |
|            |         | 5240           | 21.440            | 5229.680 | 5251.120 |
| 11AC40SISO | Ant1    | 5190           | 59.360            | 5160.800 | 5220.160 |
|            |         | 5230           | 61.760            | 5200.240 | 5262.000 |
| 11AC80SISO | Ant1    | 5210           | 102.080           | 5169.360 | 5271.440 |

## Test Graphs

11A\_Ant1\_5180



11A\_Ant1\_5200



11A\_Ant1\_5240



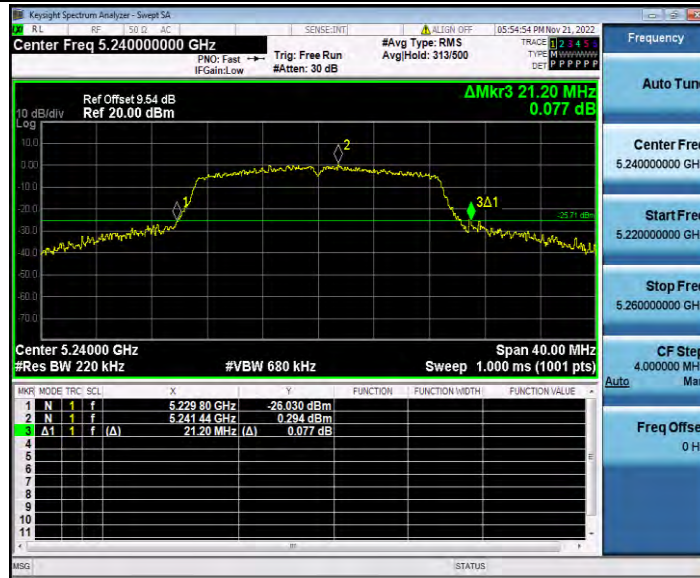
11N20SISO\_Ant1\_5180



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



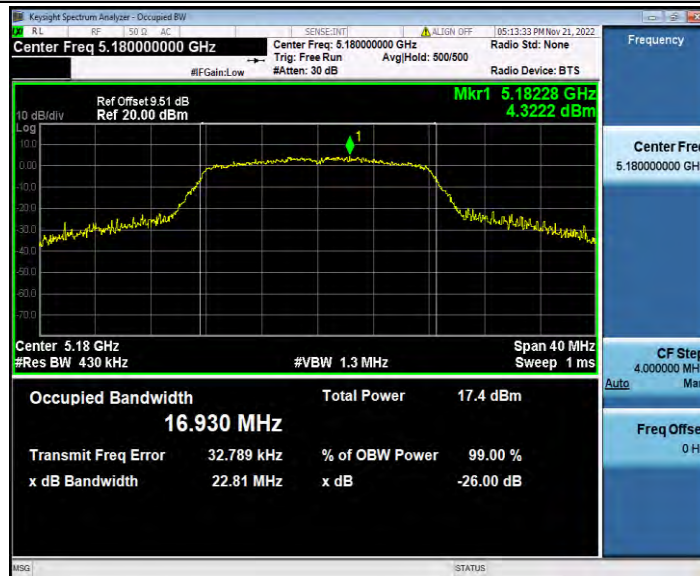
## Appendix D.2: Occupied channel bandwidth

### Test Result

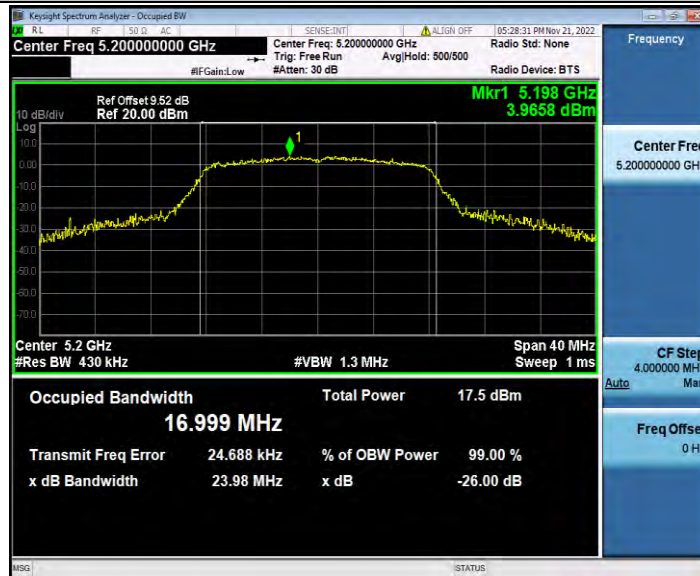
| TestMode   | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]  | FH[MHz]  |
|------------|---------|----------------|-----------|----------|----------|
| 11A        | Ant1    | 5180           | 16.930    | 5171.568 | 5188.498 |
|            |         | 5200           | 16.999    | 5191.525 | 5208.524 |
|            |         | 5240           | 17.175    | 5231.420 | 5248.595 |
| 11N20SISO  | Ant1    | 5180           | 17.858    | 5171.115 | 5188.973 |
|            |         | 5200           | 17.958    | 5191.065 | 5209.023 |
|            |         | 5240           | 17.916    | 5231.052 | 5248.968 |
| 11N40SISO  | Ant1    | 5190           | 36.893    | 5171.732 | 5208.625 |
|            |         | 5230           | 37.129    | 5211.545 | 5248.674 |
| 11AC20SISO | Ant1    | 5180           | 17.910    | 5171.121 | 5189.031 |
|            |         | 5200           | 17.923    | 5191.072 | 5208.995 |
|            |         | 5240           | 17.941    | 5231.015 | 5248.956 |
| 11AC40SISO | Ant1    | 5190           | 37.013    | 5171.698 | 5208.711 |
|            |         | 5230           | 37.069    | 5211.583 | 5248.652 |
| 11AC80SISO | Ant1    | 5210           | 75.991    | 5172.223 | 5248.214 |

## Test Graphs

11A\_Ant1\_5180



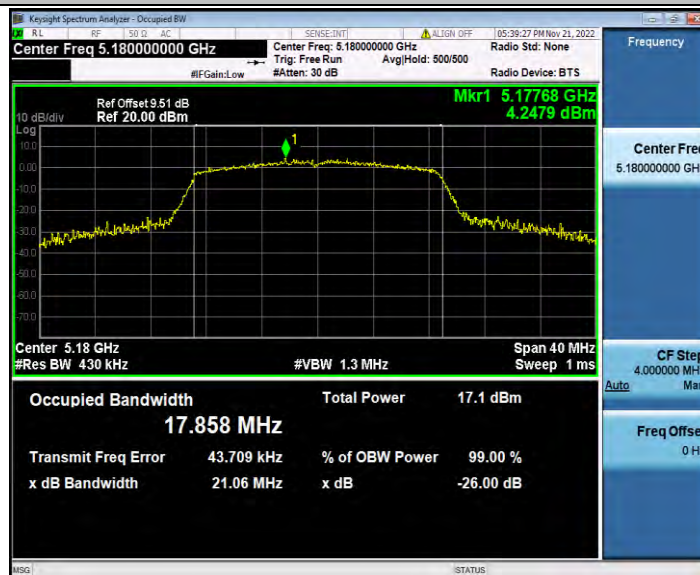
11A\_Ant1\_5200



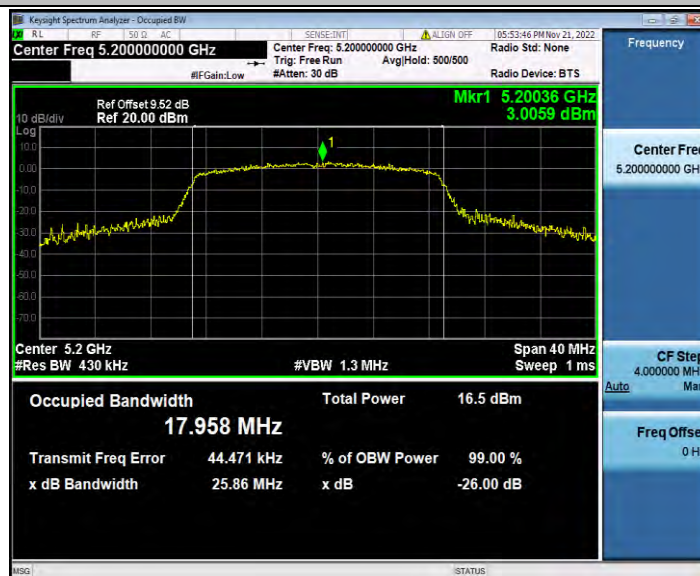
11A\_Ant1\_5240



11N20SISO\_Ant1\_5180



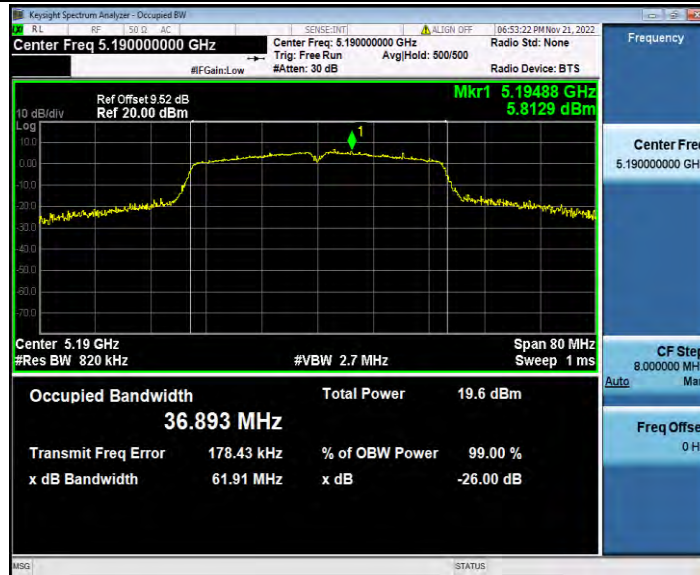
11N20SISO\_Ant1\_5200



# 11N20SISO\_Ant1\_5240



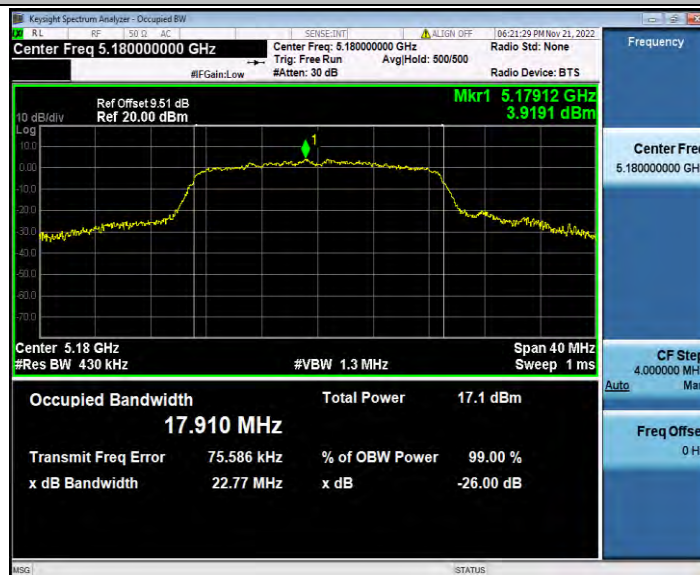
# 11N40SISO\_Ant1\_5190



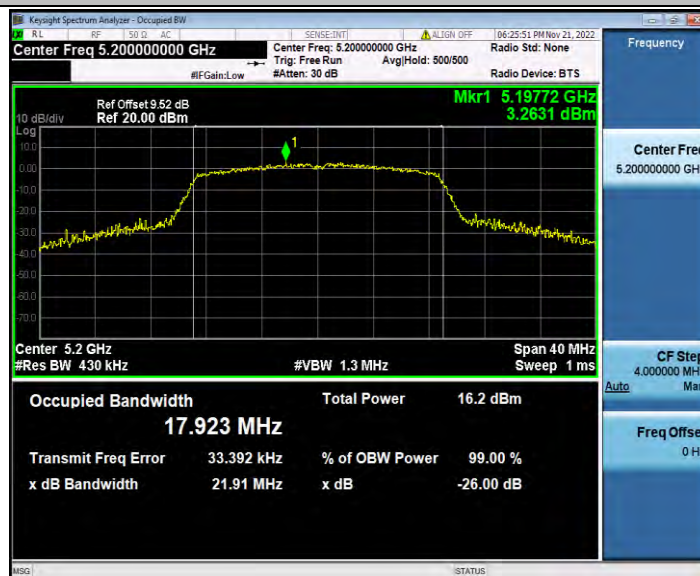
# 11N40SISO\_Ant1\_5230



11AC20SISO\_Ant1\_5180



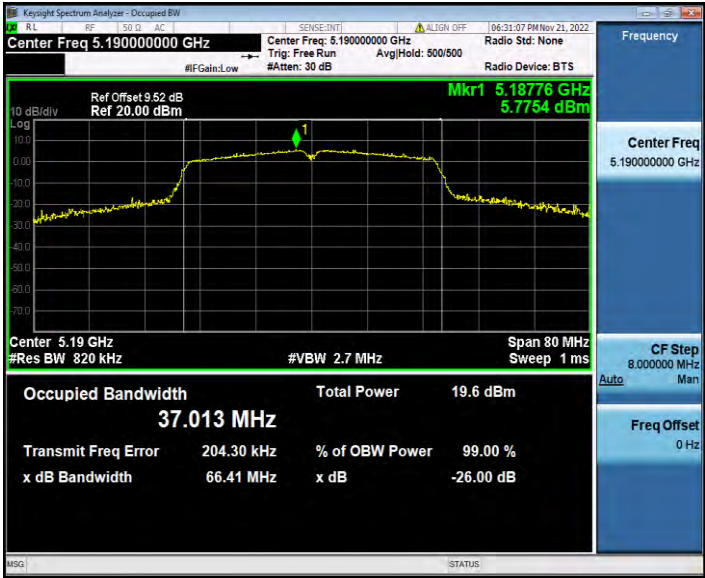
11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant1\_5240



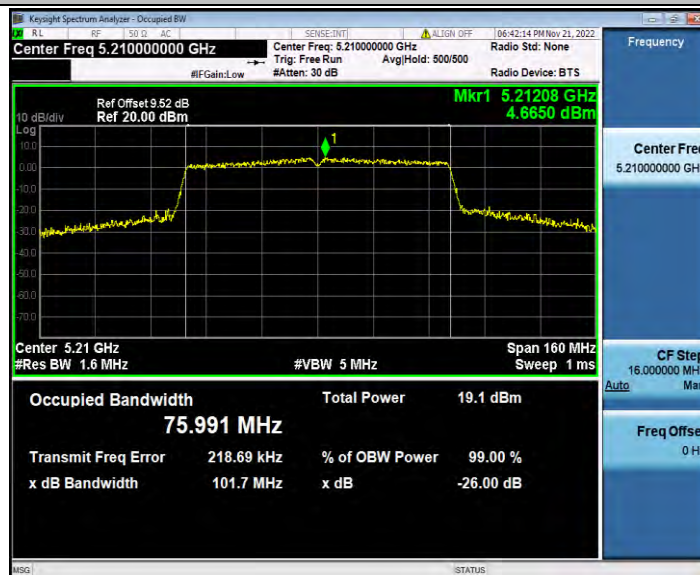
11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210



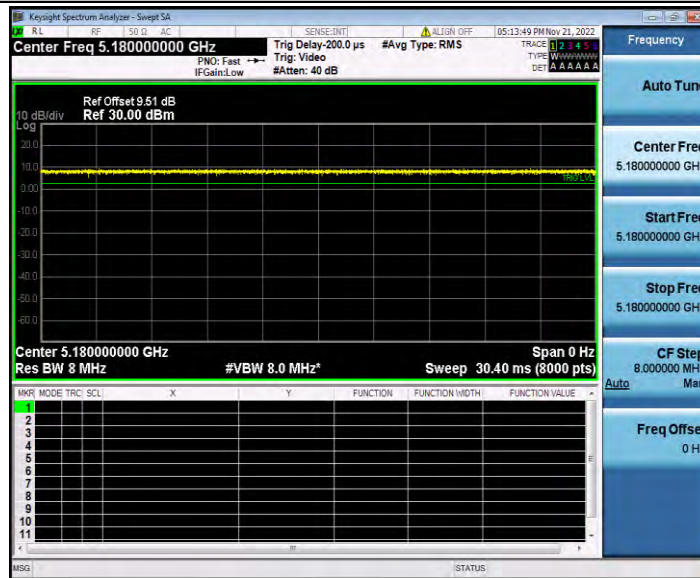
## Appendix D.3: Duty Cycle

### Test Result

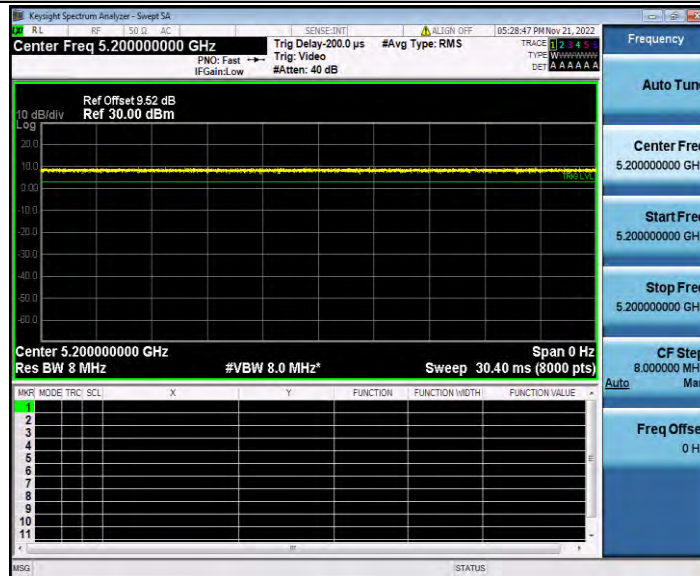
| TestMode   | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|------------|---------|----------------|----------------------------|--------------------------|----------------|
| 11A        | Ant1    | 5180           | 30.00                      | 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           | 1.31                       | 1.35                     | 97.04          |
|            |         | 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

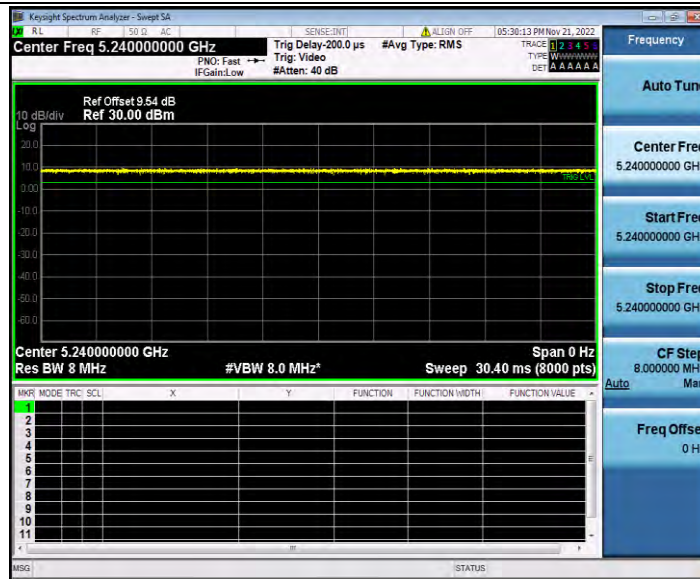
11A\_Ant1\_5180



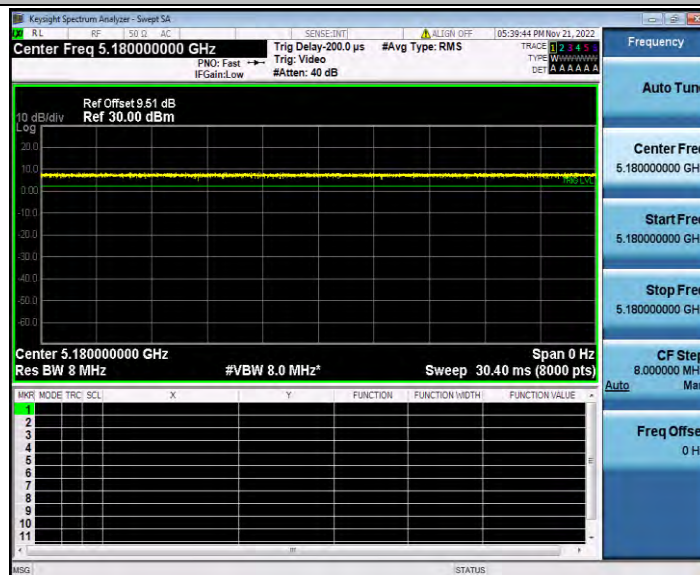
11A\_Ant1\_5200



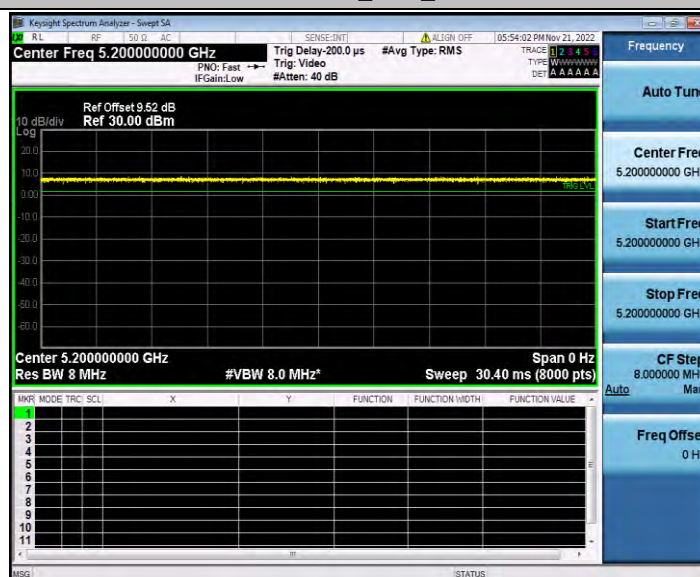
11A\_Ant1\_5240



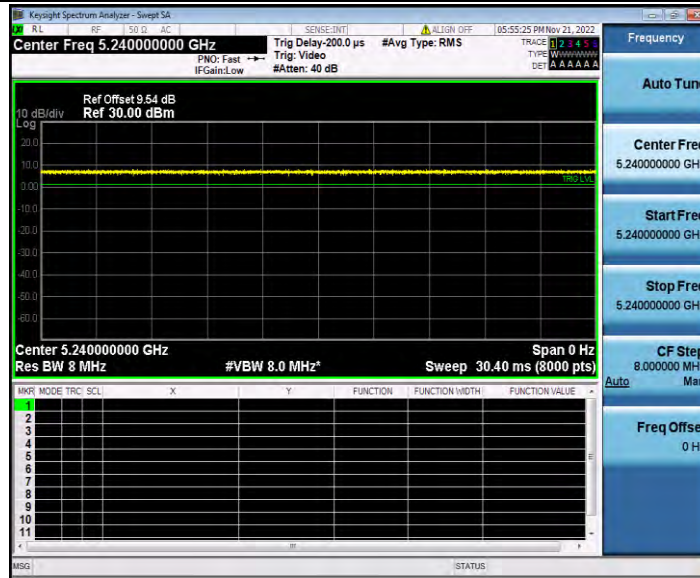
11N20SISO\_Ant1\_5180



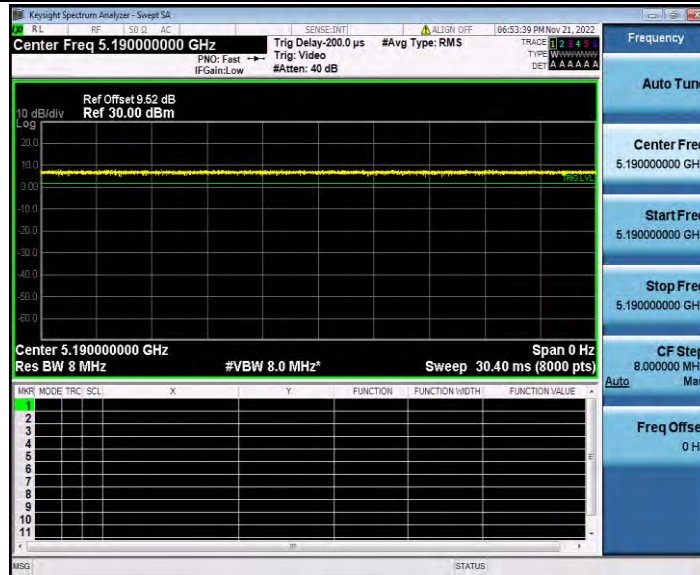
11N20SISO\_Ant1\_5200



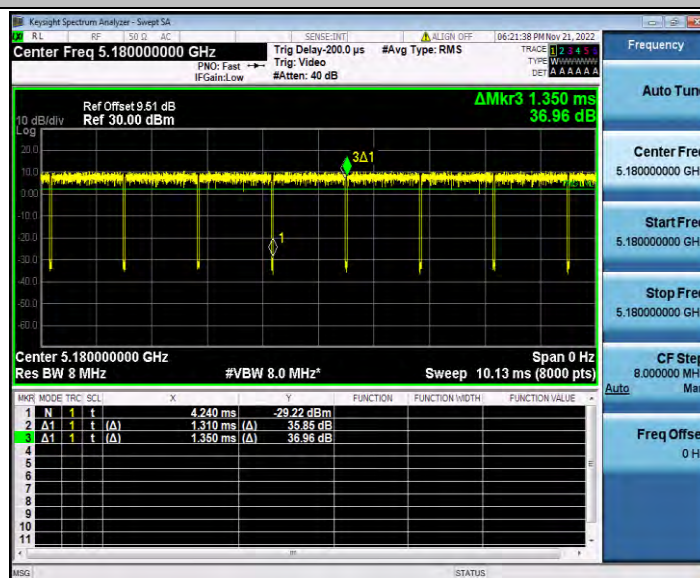
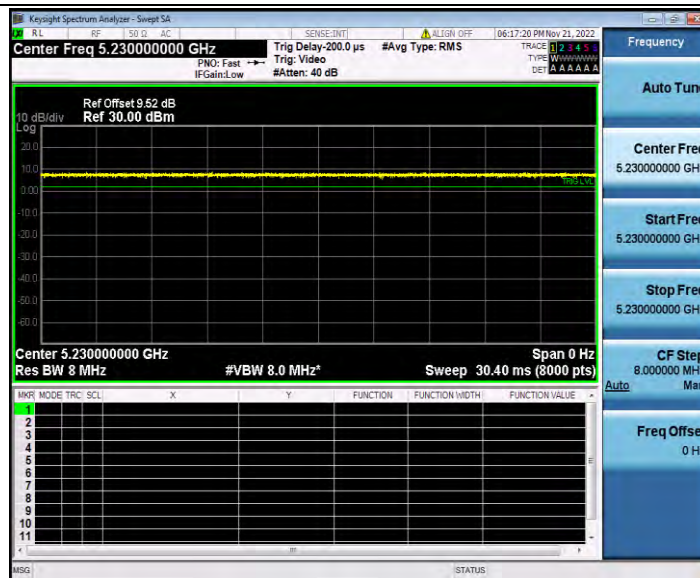
# 11N20SISO\_Ant1\_5240



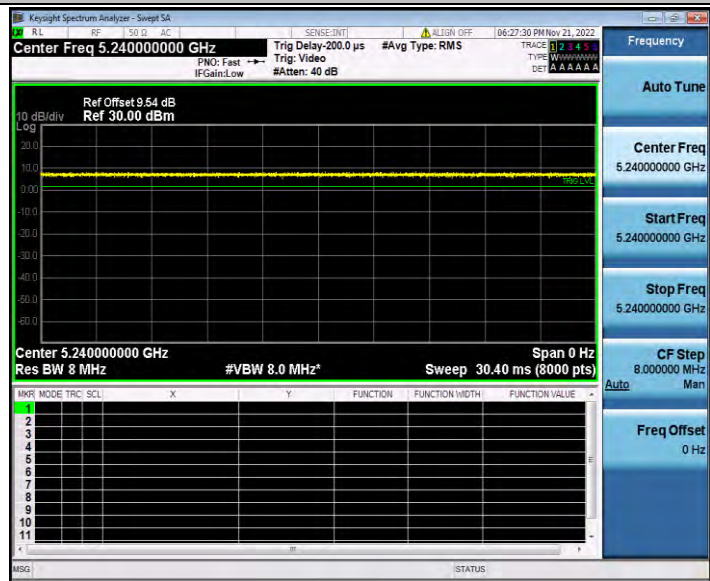
# 11N40SISO\_Ant1\_5190



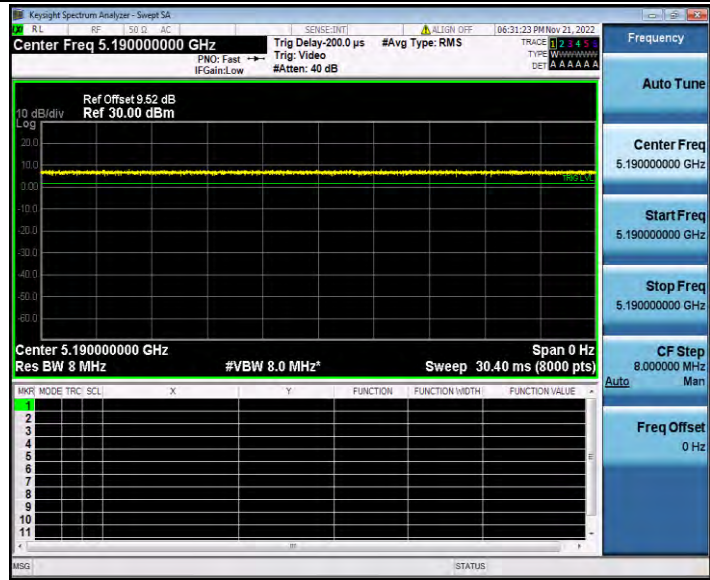
# 11N40SISO\_Ant1\_5230



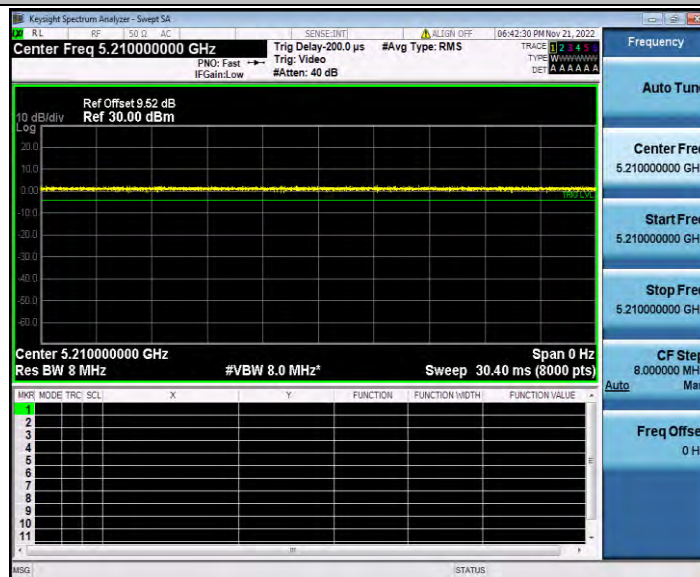
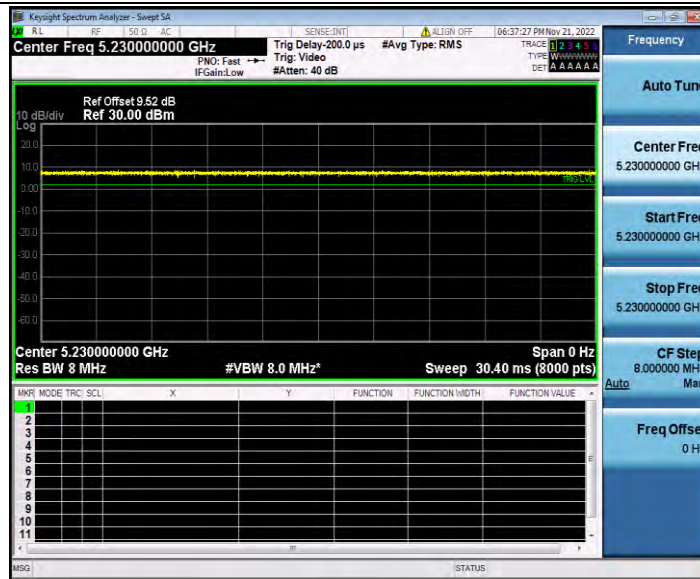
11AC20SISO\_Ant1\_5240



11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



## 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        | Ant1    | 5180            | 10.56               | 100.00         | 0.00            | 10.56        | ≤23.98      | PASS    |
|            |         | 5200            | 10.72               | 100.00         | 0.00            | 10.72        | ≤23.98      | PASS    |
|            |         | 5240            | 10.73               | 100.00         | 0.00            | 10.73        | ≤23.98      | PASS    |
| 11N20SISO  | Ant1    | 5180            | 9.33                | 100.00         | 0.00            | 9.33         | ≤23.98      | PASS    |
|            |         | 5200            | 9.76                | 100.00         | 0.00            | 9.76         | ≤23.98      | PASS    |
|            |         | 5240            | 9.46                | 100.00         | 0.00            | 9.46         | ≤23.98      | PASS    |
| 11N40SISO  | Ant1    | 5190            | 9.13                | 100.00         | 0.00            | 9.13         | ≤23.98      | PASS    |
|            |         | 5230            | 12.76               | 100.00         | 0.00            | 12.76        | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5180            | 10.31               | 97.04          | 0.13            | 10.44        | ≤23.98      | PASS    |
|            |         | 5200            | 9.37                | 100.00         | 0.00            | 9.37         | ≤23.98      | PASS    |
|            |         | 5240            | 9.64                | 100.00         | 0.00            | 9.64         | ≤23.98      | PASS    |
| 11AC40SISO | Ant1    | 5190            | 12.19               | 100.00         | 0.00            | 12.19        | ≤23.98      | PASS    |
|            |         | 5230            | 12.69               | 100.00         | 0.00            | 12.69        | ≤23.98      | PASS    |
| 11AC80SISO | Ant1    | 5210            | 10.15               | 100.00         | 0.00            | 10.15        | ≤23.98      | PASS    |

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

## Appendix D.5: Maximum power spectral density

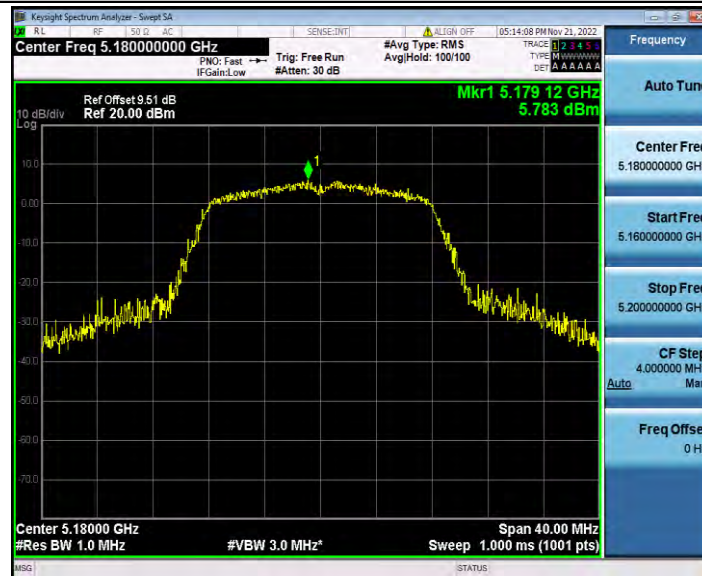
### Test Result

| TestMode   | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|------------------|----------------|---------|
| 11A        | Ant1    | 5180           | 5.78             | ≤11.00         | PASS    |
|            |         | 5200           | 5.79             | ≤11.00         | PASS    |
|            |         | 5240           | 5.48             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5180           | 4.4              | ≤11.00         | PASS    |
|            |         | 5200           | 5.35             | ≤11.00         | PASS    |
|            |         | 5240           | 5.3              | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5190           | 4.41             | ≤11.00         | PASS    |
|            |         | 5230           | 4.9              | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5180           | 5.38             | ≤11.00         | PASS    |
|            |         | 5200           | 4.62             | ≤11.00         | PASS    |
|            |         | 5240           | 5.08             | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5190           | 4.65             | ≤11.00         | PASS    |
|            |         | 5230           | 4.99             | ≤11.00         | PASS    |
| 11AC80SISO | Ant1    | 5210           | -1.09            | ≤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



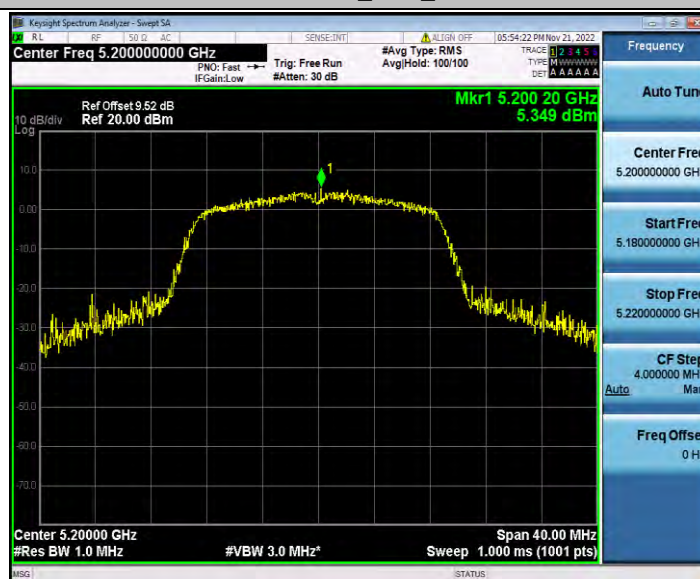
11A\_Ant1\_5240



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



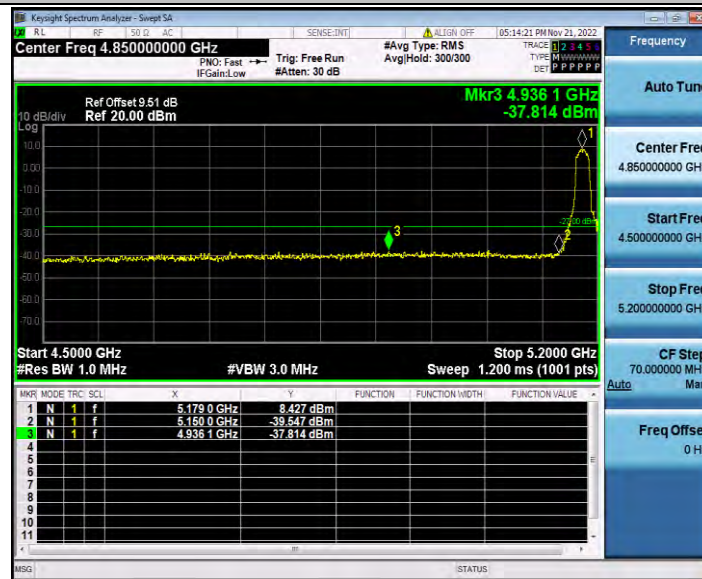
## Appendix D.6: Band edge measurements

### Test Result B1

| TestMode   | Antenna | ChName | Frequency[MHz] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------|----------------|-------------|------------|---------|
| 11A        | Ant1    | Low    | 5180           | -37.81      | ≤-27       | PASS    |
|            |         | High   | 5240           | -37.8       | ≤-27       | PASS    |
| 11N20SISO  | Ant1    | Low    | 5180           | -37.94      | ≤-27       | PASS    |
|            |         | High   | 5240           | -37.62      | ≤-27       | PASS    |
| 11N40SISO  | Ant1    | Low    | 5190           | -34.1       | ≤-27       | PASS    |
|            |         | High   | 5230           | -37.6       | ≤-27       | PASS    |
| 11AC20SISO | Ant1    | Low    | 5180           | -37.15      | ≤-27       | PASS    |
|            |         | High   | 5240           | -37.53      | ≤-27       | PASS    |
| 11AC40SISO | Ant1    | Low    | 5190           | -37.56      | ≤-27       | PASS    |
|            |         | High   | 5230           | -38.12      | ≤-27       | PASS    |
| 11AC80SISO | Ant1    | Low    | 5210           | -34.21      | ≤-27       | PASS    |
|            |         | High   | 5210           | -38.57      | ≤-27       | PASS    |

## Test Graphs B1

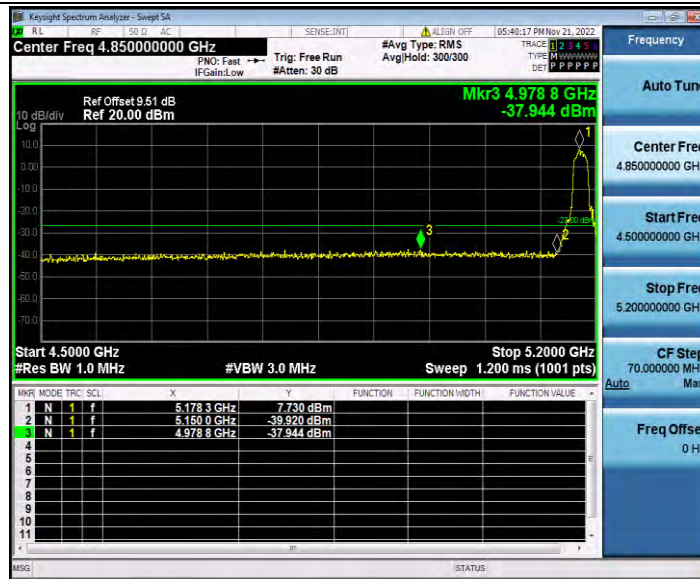
11A\_Ant1\_Low\_5180



11A\_Ant1\_High\_5240



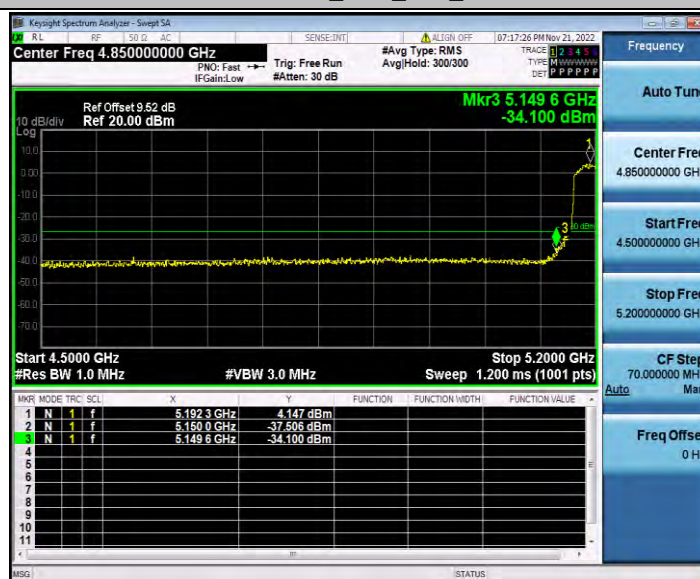
11N20SISO\_Ant1\_Low\_5180



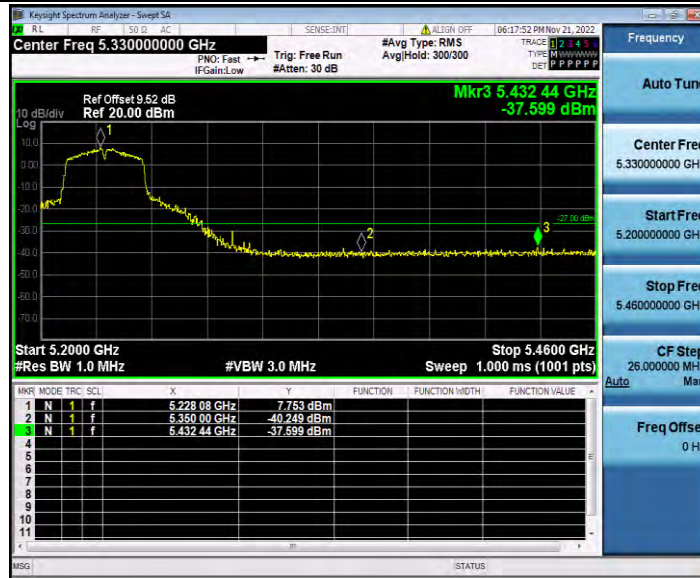
11N20SISO\_Ant1\_High\_5240



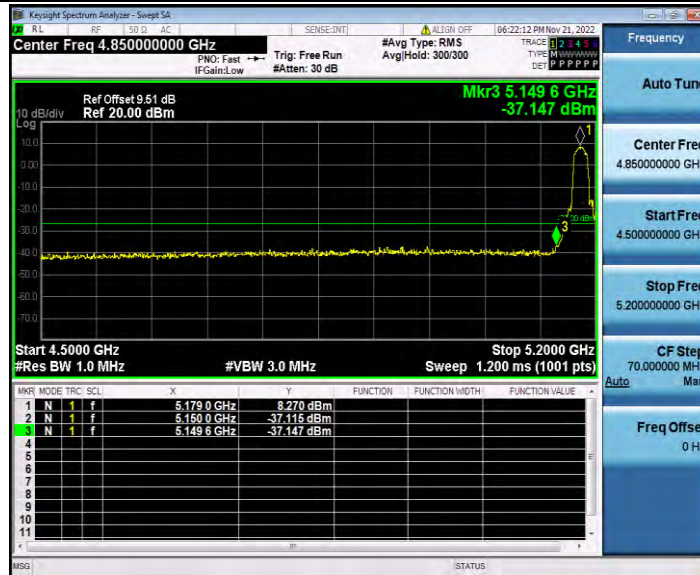
11N40SISO\_Ant1\_Low\_5190



# 11N40SISO\_Ant1\_High\_5230



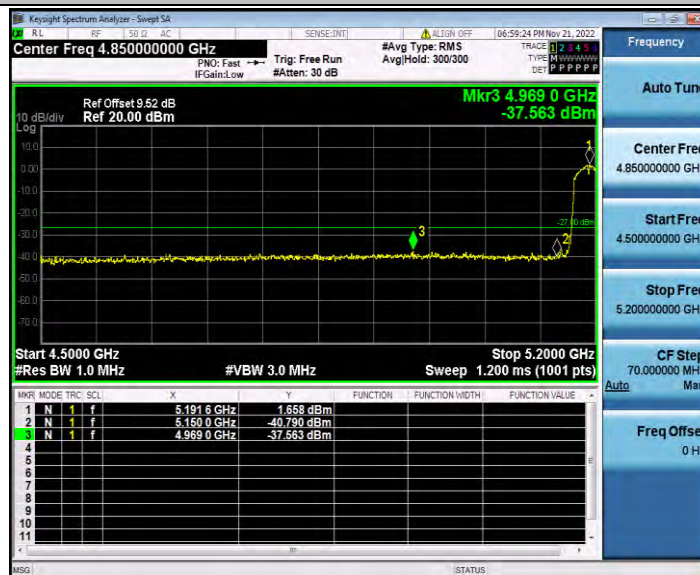
# 11AC20SISO\_Ant1\_Low\_5180



# 11AC20SISO\_Ant1\_High\_5240



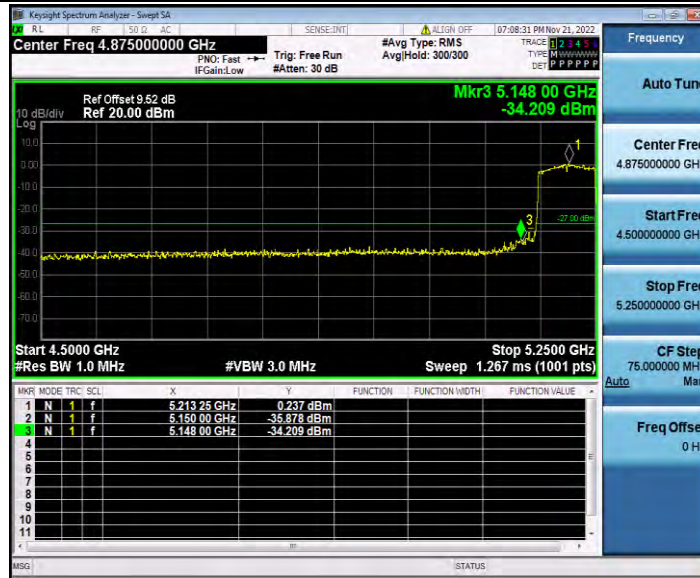
11AC40SISO\_Ant1\_Low\_5190



11AC40SISO\_Ant1\_High\_5230



# 11AC80SISO\_Ant1\_Low\_5210



# 11AC80SISO\_Ant1\_High\_5210



## Appendix D.7: Conducted Spurious Emission

### Test Result

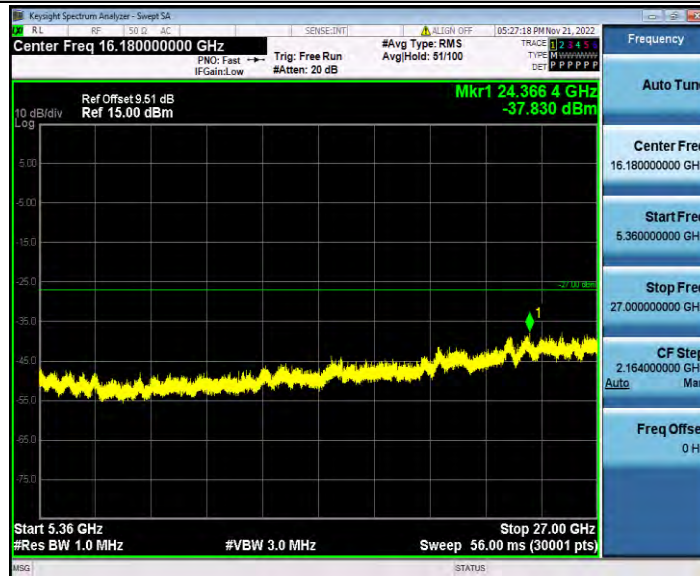
| TestMode   | Antenna | Frequency[MHz] | FreqRange [MHz] | Max. Fre [MHz] | Max. Level [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|-----------------|----------------|------------------|-------------|---------|
| 11A        | Ant1    | 5180           | 30~5140         | 5121.43        | -46.05           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24366.41       | -37.83           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 5021.62        | -46.37           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24179.59       | -37.99           | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 5136.93        | -46              | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 25667.7        | -38.04           | ≤-27        | PASS    |
| 11N20SISO  | Ant1    | 5180           | 30~5140         | 2788.21        | -46.32           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26508.77       | -37.44           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 5069.65        | -46.63           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 23498.65       | -37.77           | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 2655.01        | -46.48           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24229.36       | -37.39           | ≤-27        | PASS    |
| 11N40SISO  | Ant1    | 5190           | 30~5140         | 5139.83        | -35.73           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24882.89       | -37.53           | ≤-27        | PASS    |
|            |         | 5230           | 30~5140         | 5123.82        | -46.08           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26545.56       | -37.67           | ≤-27        | PASS    |
| 11AC20SISO | Ant1    | 5180           | 30~5140         | 5093.5         | -45.86           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26755.47       | -38.16           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 3060.23        | -46.24           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 23472.68       | -37.96           | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 4983.12        | -46.65           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24240.9        | -37.93           | ≤-27        | PASS    |
| 11AC40SISO | Ant1    | 5190           | 30~5140         | 5139.15        | -35.6            | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24846.82       | -37.49           | ≤-27        | PASS    |
|            |         | 5230           | 30~5140         | 5137.96        | -44.09           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24828.07       | -37.69           | ≤-27        | PASS    |
| 11AC80SISO | Ant1    | 5210           | 30~5140         | 5136.93        | -34.14           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 23585.21       | -37.67           | ≤-27        | PASS    |

## Test Graphs

11A\_Ant1\_5180\_30~5140



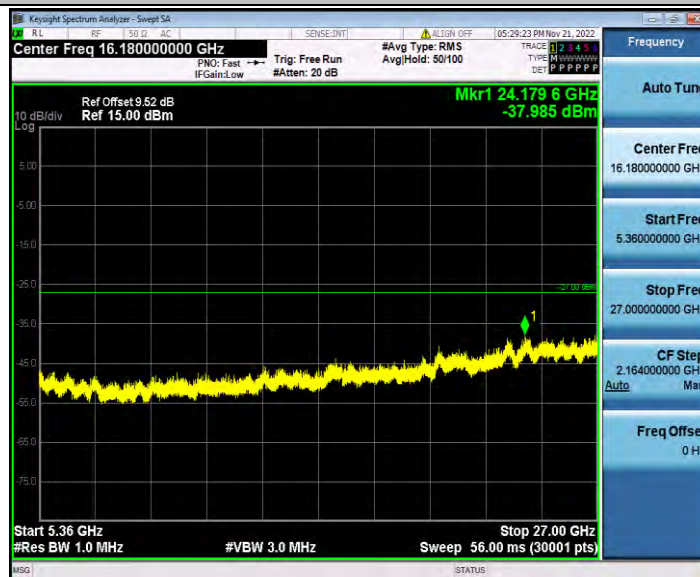
11A\_Ant1\_5180\_5360~40000



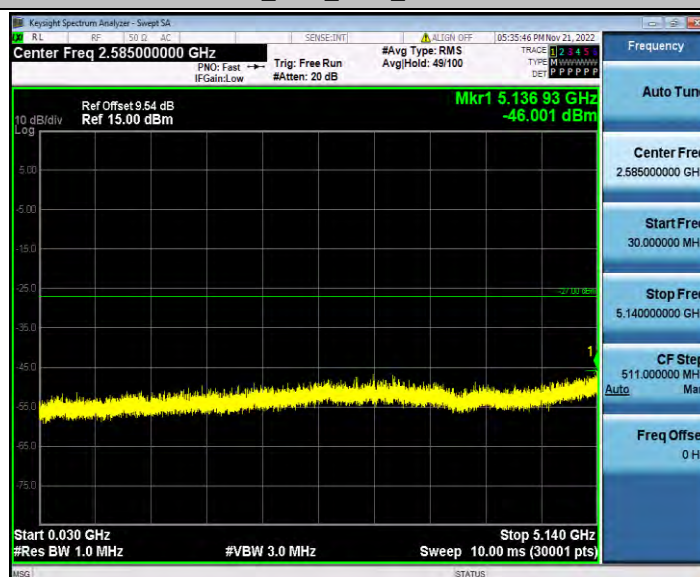
11A\_Ant1\_5200\_30~5140



11A\_Ant1\_5200\_5360~40000



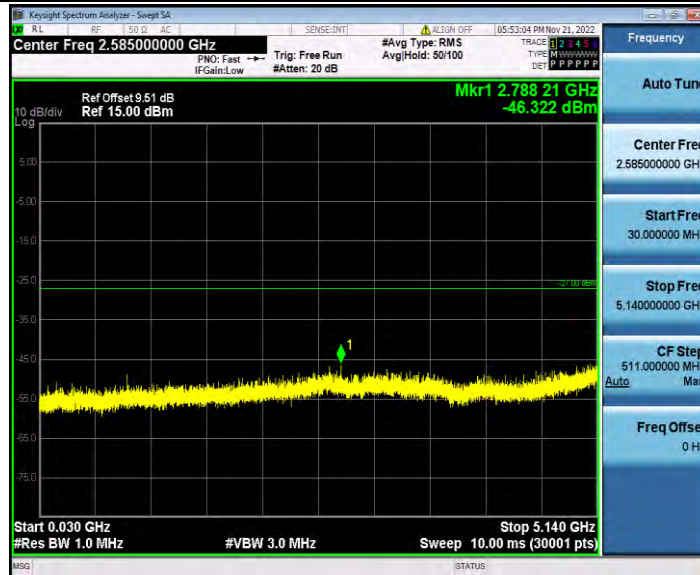
11A\_Ant1\_5240\_30~5140



# 11A\_Ant1\_5240\_5360~40000



# 11N20SISO\_Ant1\_5180\_30~5140



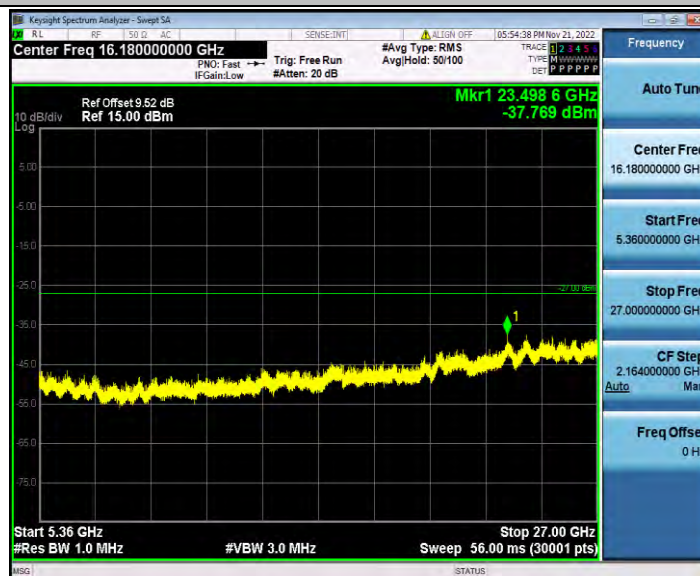
# 11N20SISO\_Ant1\_5180\_5360~40000



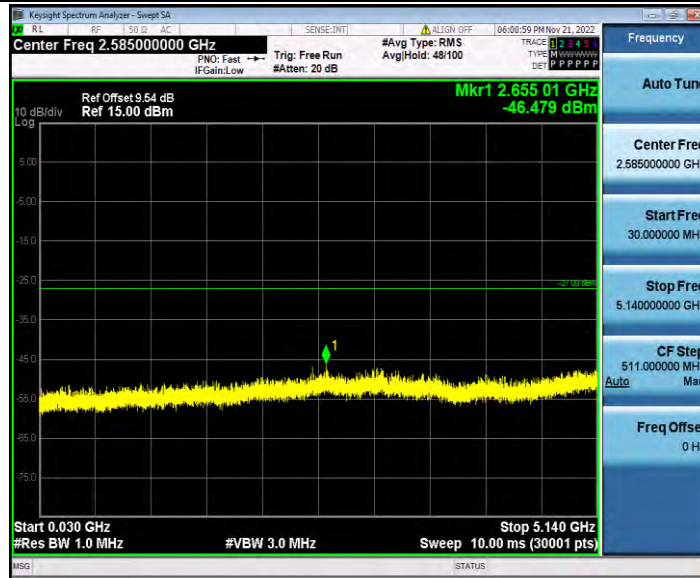
11N20SISO\_Ant1\_5200\_30~5140



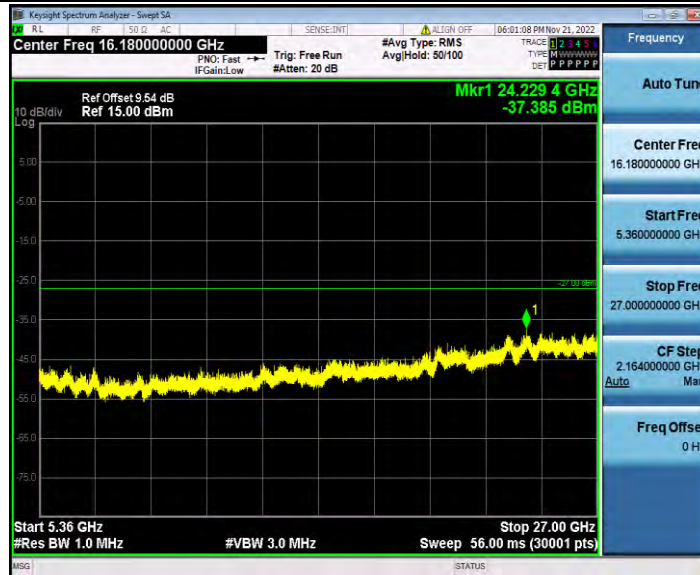
11N20SISO\_Ant1\_5200\_5360~40000



# 11N20SISO\_Ant1\_5240\_30~5140



# 11N20SISO\_Ant1\_5240\_5360~40000



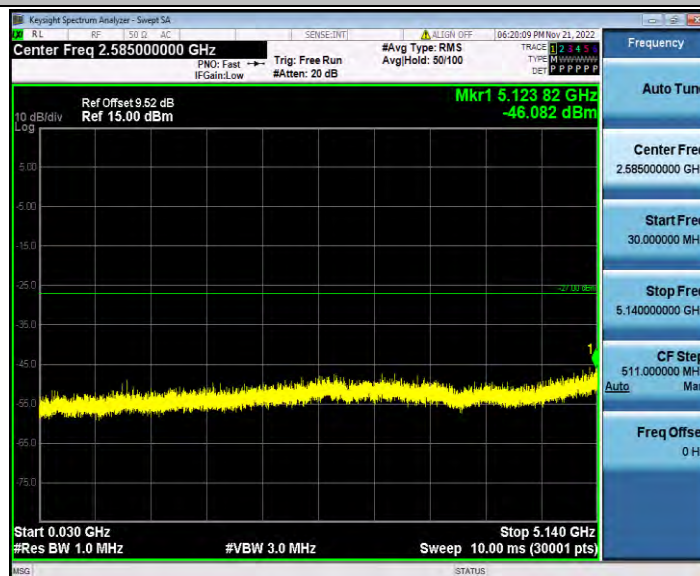
# 11N40SISO\_Ant1\_5190\_30~5140



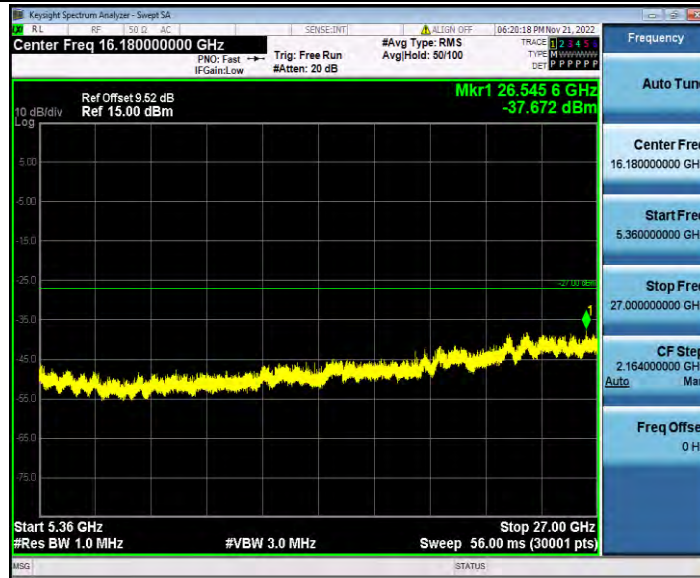
11N40SISO\_Ant1\_5190\_5360~40000



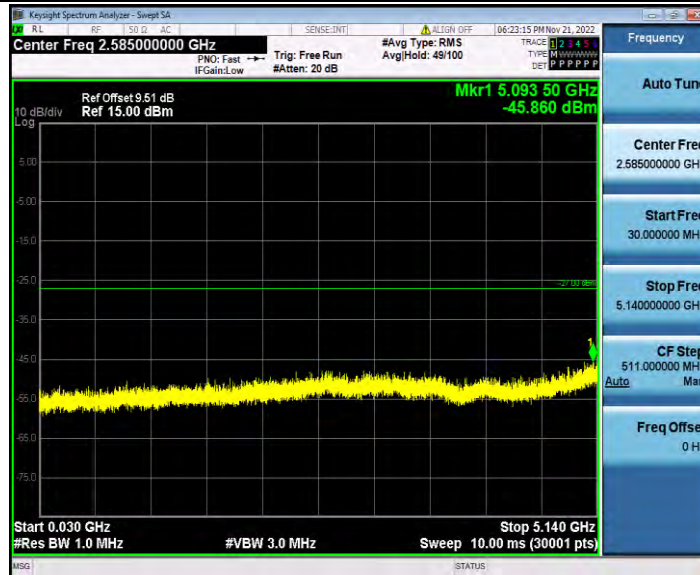
11N40SISO\_Ant1\_5230\_30~5140



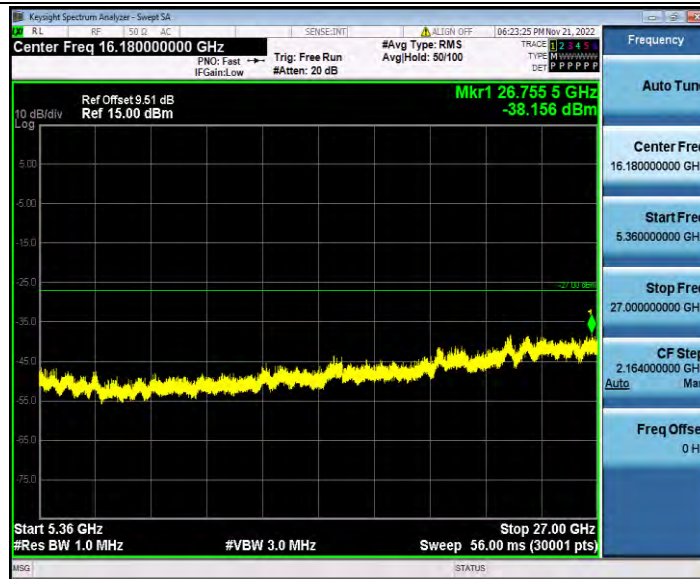
# 11N40SISO\_Ant1\_5230\_5360~40000



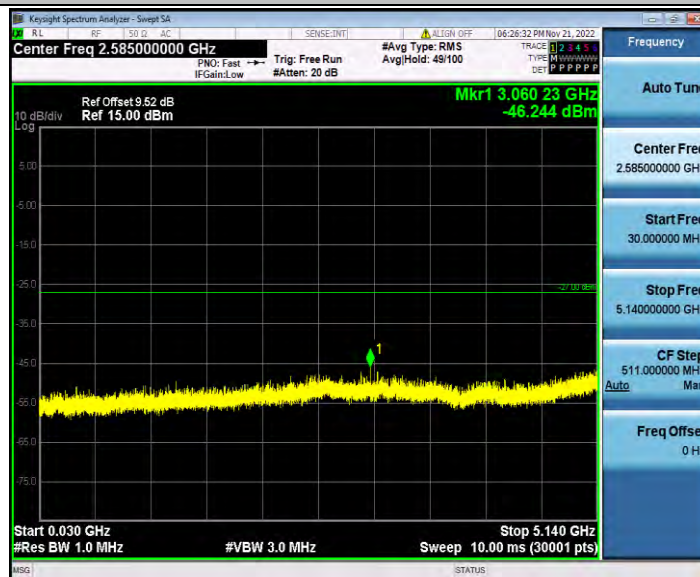
# 11AC20SISO\_Ant1\_5180\_30~5140



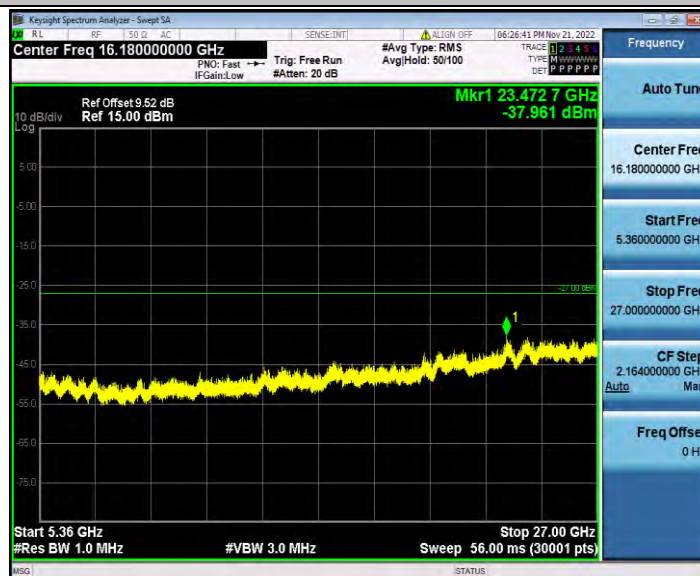
# 11AC20SISO\_Ant1\_5180\_5360~40000



11AC20SISO\_Ant1\_5200\_30~5140



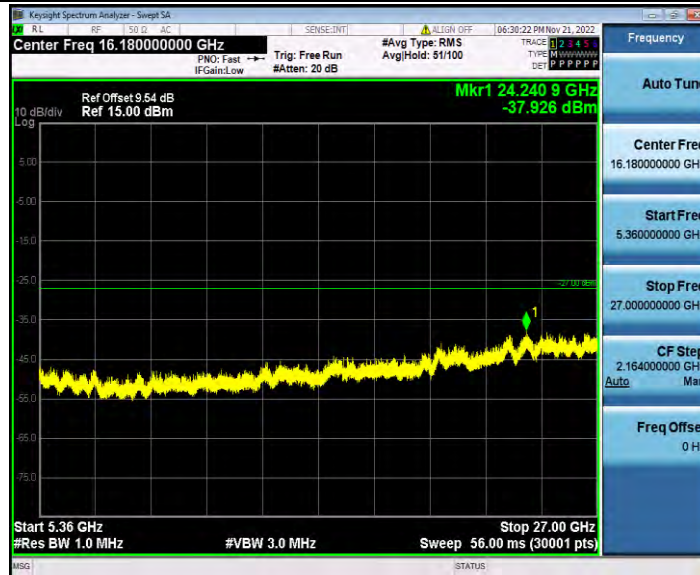
11AC20SISO\_Ant1\_5200\_5360~40000



# 11AC20SISO\_Ant1\_5240\_30~5140



# 11AC20SISO\_Ant1\_5240\_5360~40000



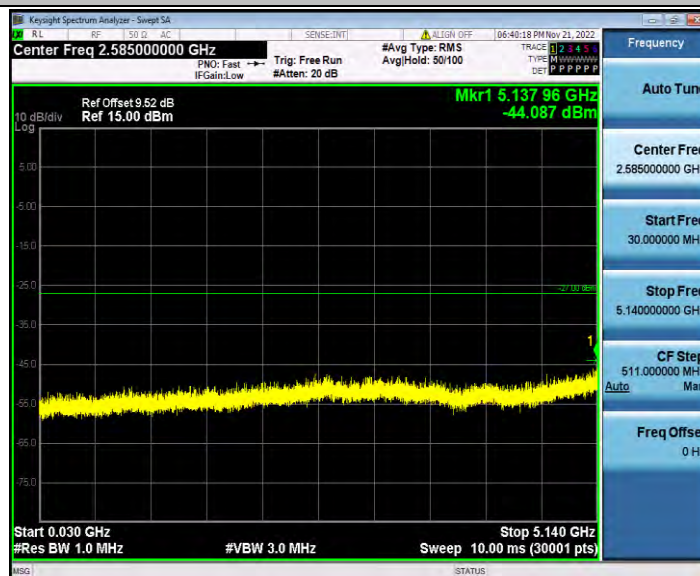
# 11AC40SISO\_Ant1\_5190\_30~5140



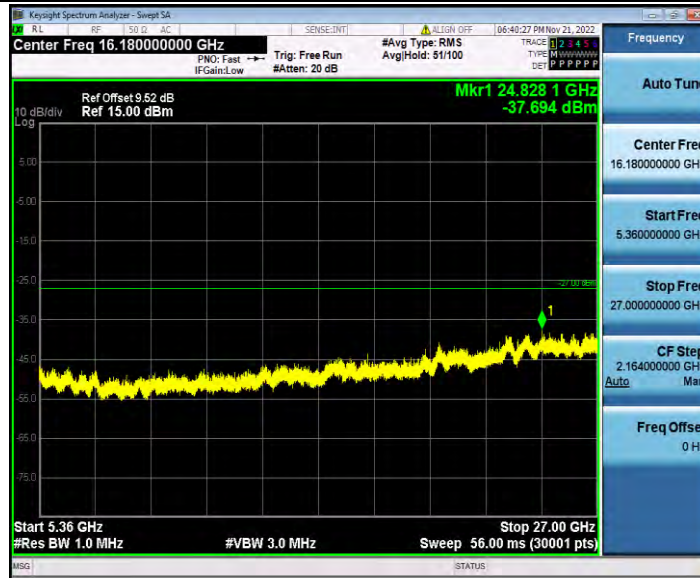
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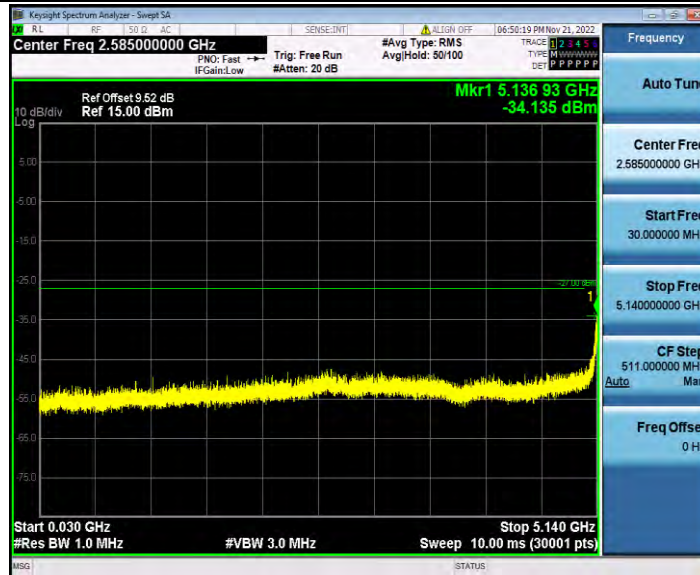
11AC40SISO\_Ant1\_5230\_30~5140



# 11AC40SISO\_Ant1\_5230\_5360~40000



# 11AC80SISO\_Ant1\_5210\_30~5140



# 11AC80SISO\_Ant1\_5210\_5360~40000

