

|   |
|---|
| <b>Case No. :</b> <u>GTS20230105011-1-26</u>                              |
| <b>Ambient Condition:</b> <u>25</u> °C, <u>45</u> %RH, Atmos100.1Kpa,     |
| <b>Test Date:</b> <u>2023.3.4</u> <b>Test Engineer:</b> <u>Jenny zeng</u> |

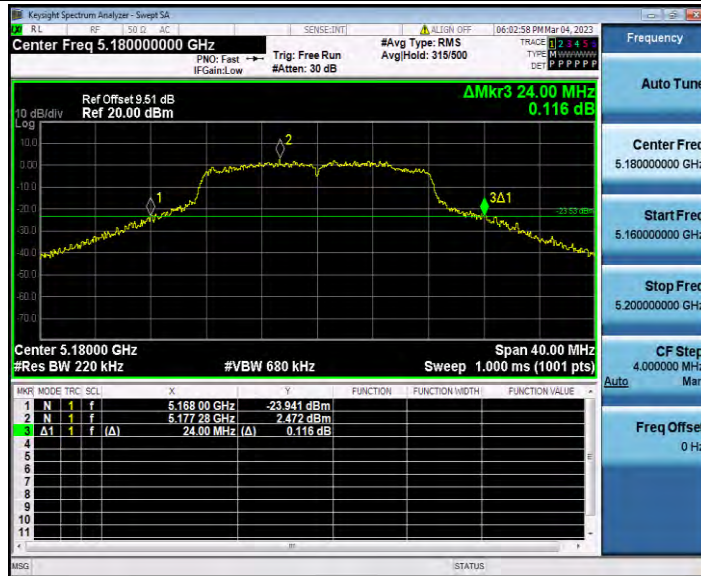
## Appendix D.1: Emission Bandwidth

### Test Result

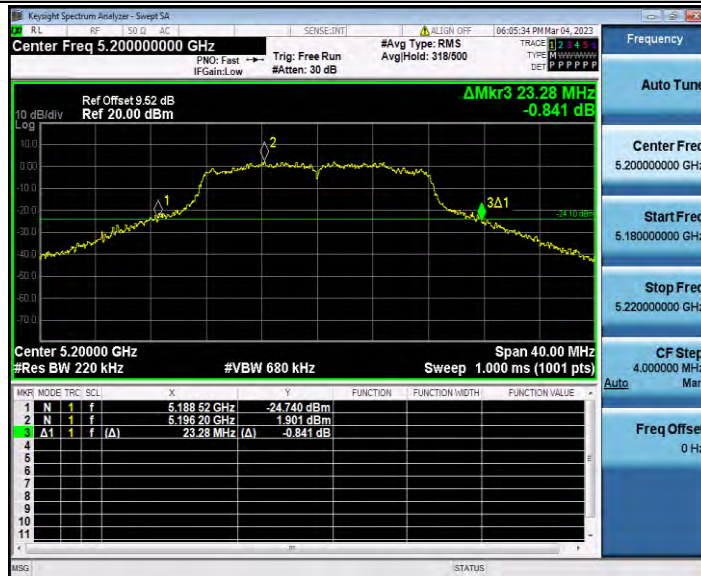
| TestMode   | Antenna | Frequency[MHz] | 26db<br>EBW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|----------------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5180           | 24.000               | 5168.000 | 5192.000 | ---        | ---     |
|            |         | 5200           | 23.280               | 5188.520 | 5211.800 | ---        | ---     |
|            |         | 5240           | 22.800               | 5227.920 | 5250.720 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 24.640               | 5167.880 | 5192.520 | ---        | ---     |
|            |         | 5200           | 23.640               | 5187.920 | 5211.560 | ---        | ---     |
|            |         | 5240           | 23.800               | 5227.920 | 5251.720 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 44.080               | 5167.520 | 5211.600 | ---        | ---     |
|            |         | 5230           | 43.280               | 5207.280 | 5250.560 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180           | 24.320               | 5168.160 | 5192.480 | ---        | ---     |
|            |         | 5200           | 23.200               | 5188.400 | 5211.600 | ---        | ---     |
|            |         | 5240           | 23.480               | 5227.840 | 5251.320 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190           | 45.200               | 5167.920 | 5213.120 | ---        | ---     |
|            |         | 5230           | 43.600               | 5207.920 | 5251.520 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210           | 87.360               | 5163.120 | 5250.480 | ---        | ---     |

# Test Graphs

11A\_Ant1\_5180



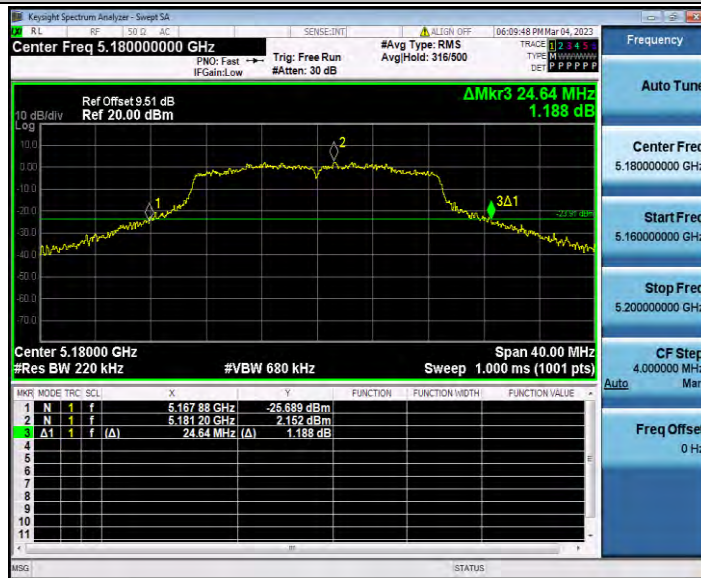
11A\_Ant1\_5200



11A\_Ant1\_5240



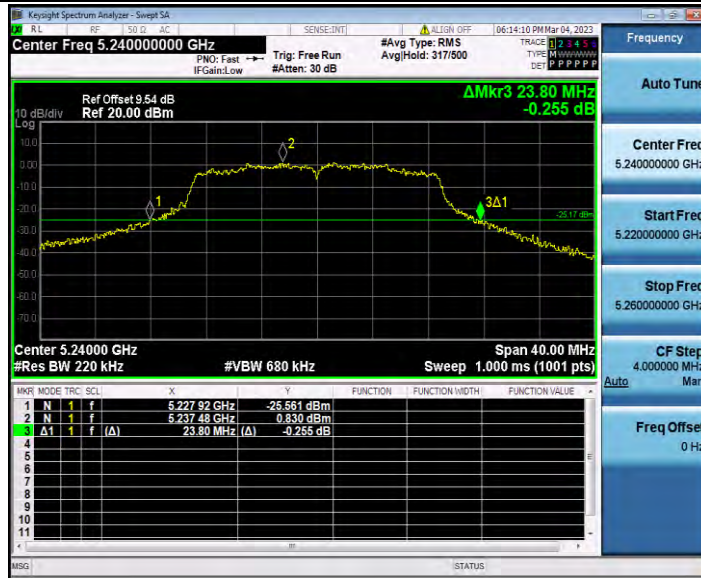
11N20SISO\_Ant1\_5180



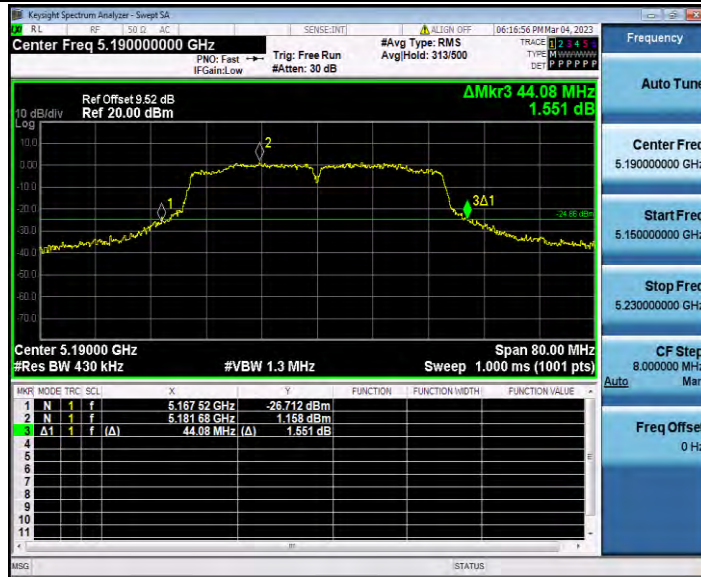
11N20SISO\_Ant1\_5200



11N20SISO\_Ant1\_5240



11N40SISO\_Ant1\_5190



11N40SISO\_Ant1\_5230



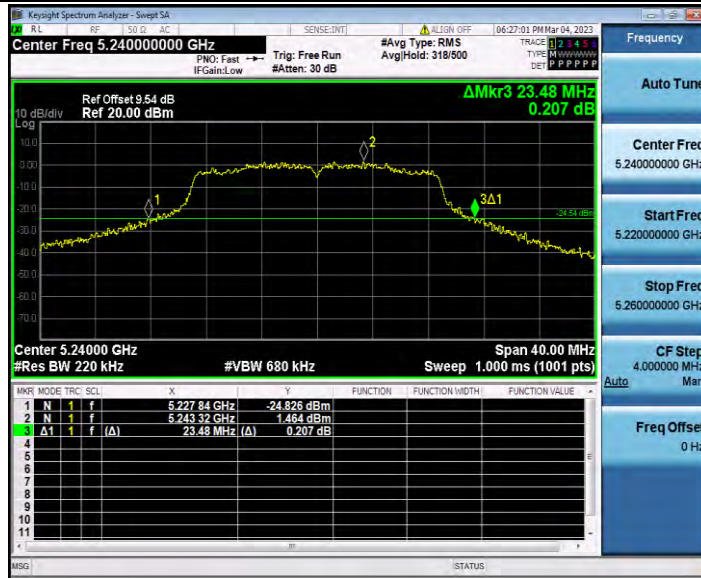
11AC20SISO\_Ant1\_5180



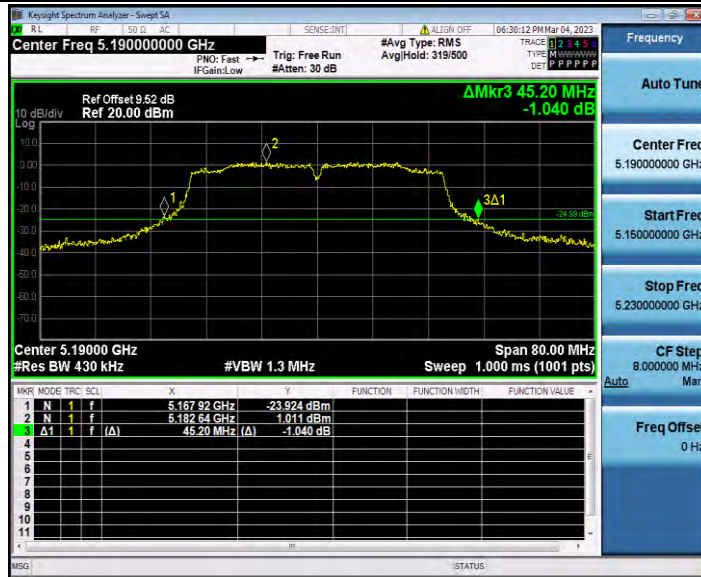
11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant1\_5240



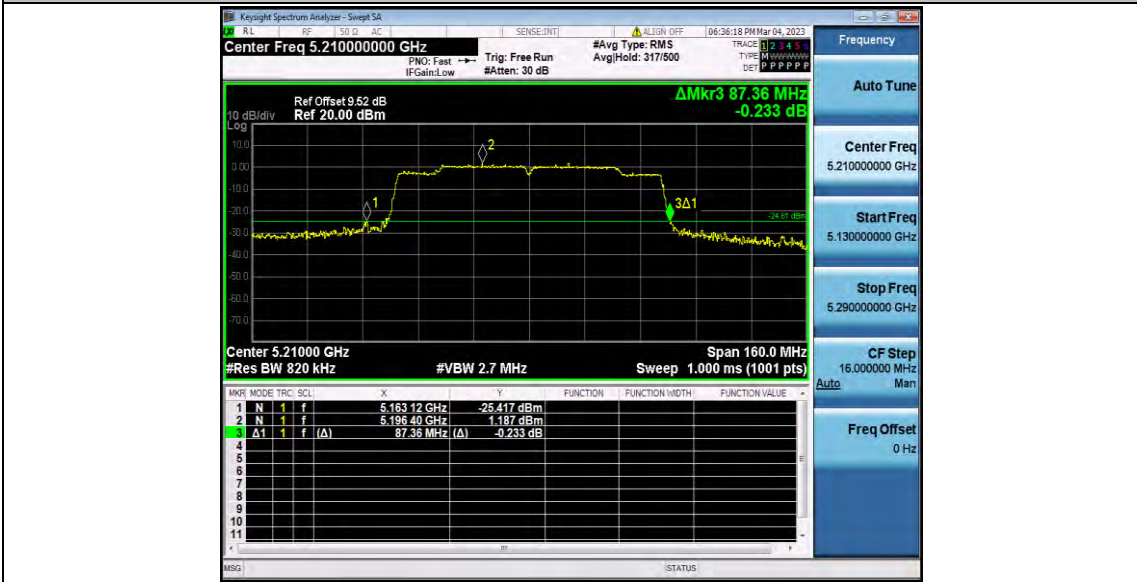
11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210



## Appendix D.2: Occupied channel bandwidth

### Test Result

| TestMode   | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|-----------|----------|----------|------------|---------|
| 11A        | Ant1    | 5180           | 17.077    | 5171.403 | 5188.480 | ---        | ---     |
|            |         | 5200           | 17.042    | 5191.458 | 5208.500 | ---        | ---     |
|            |         | 5240           | 16.932    | 5231.472 | 5248.404 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 18.249    | 5170.874 | 5189.123 | ---        | ---     |
|            |         | 5200           | 18.136    | 5190.886 | 5209.022 | ---        | ---     |
|            |         | 5240           | 18.107    | 5230.878 | 5248.985 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 36.312    | 5171.804 | 5208.116 | ---        | ---     |
|            |         | 5230           | 36.341    | 5211.744 | 5248.085 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180           | 18.208    | 5170.872 | 5189.080 | ---        | ---     |
|            |         | 5200           | 18.082    | 5190.924 | 5209.006 | ---        | ---     |
|            |         | 5240           | 18.130    | 5230.863 | 5248.993 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190           | 36.340    | 5171.848 | 5208.188 | ---        | ---     |
|            |         | 5230           | 36.281    | 5211.757 | 5248.038 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210           | 75.355    | 5172.252 | 5247.607 | ---        | ---     |

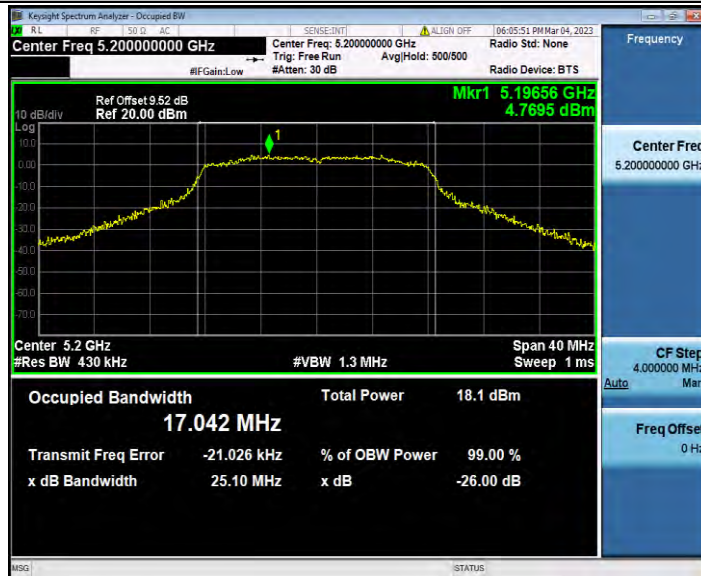


# Test Graphs

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



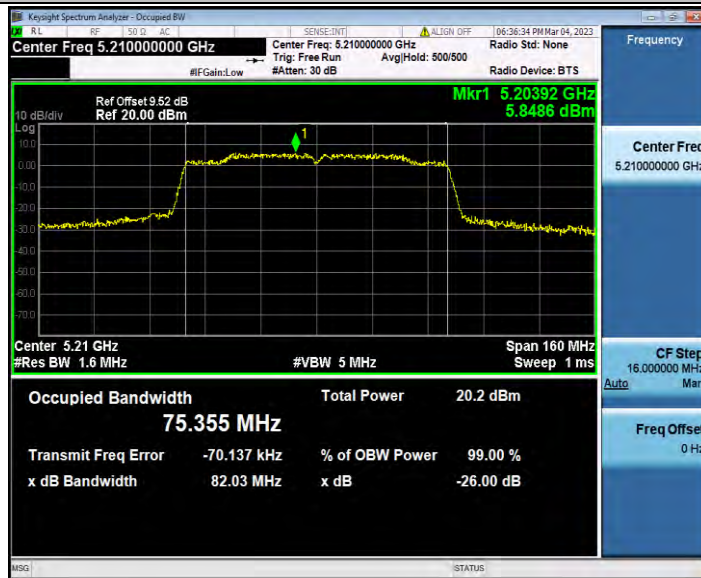
11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210



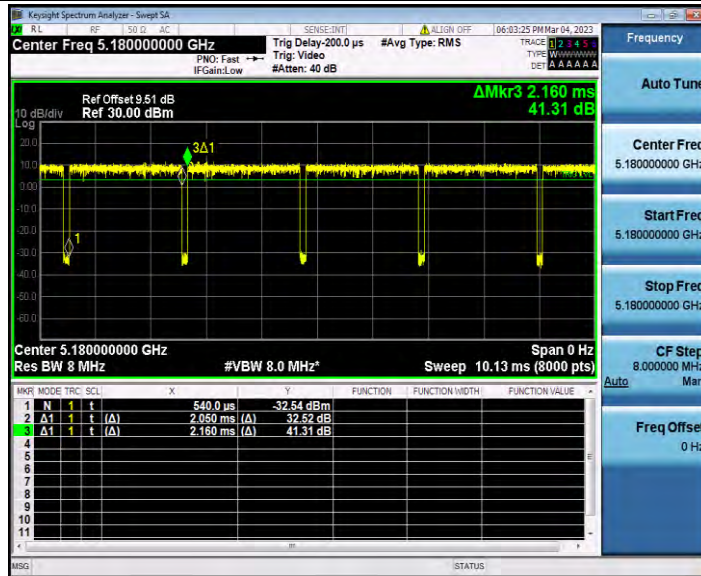
## Appendix D.3: Duty Cycle

### Test Result

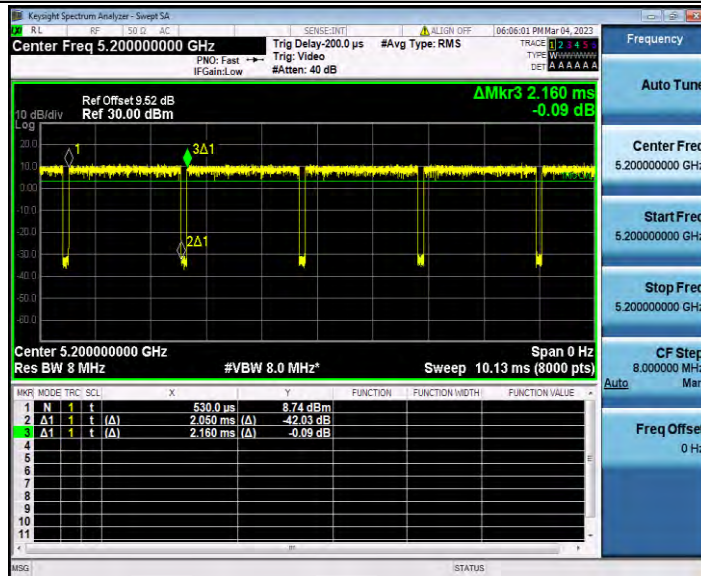
| TestMode   | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|------------|---------|----------------|----------------------------|--------------------------|----------------|
| 11A        | Ant1    | 5180           | 2.05                       | 2.16                     | 94.91          |
|            |         | 5200           | 2.05                       | 2.16                     | 94.91          |
|            |         | 5240           | 2.05                       | 2.16                     | 94.91          |
| 11N20SISO  | Ant1    | 5180           | 1.90                       | 1.93                     | 98.45          |
|            |         | 5200           | 1.91                       | 1.93                     | 98.96          |
|            |         | 5240           | 1.91                       | 1.93                     | 98.96          |
| 11N40SISO  | Ant1    | 5190           | 0.93                       | 0.96                     | 96.88          |
|            |         | 5230           | 0.93                       | 0.96                     | 96.88          |
| 11AC20SISO | Ant1    | 5180           | 1.91                       | 1.94                     | 98.45          |
|            |         | 5200           | 1.92                       | 1.94                     | 98.97          |
|            |         | 5240           | 1.92                       | 1.94                     | 98.97          |
| 11AC40SISO | Ant1    | 5190           | 0.94                       | 0.97                     | 96.91          |
|            |         | 5230           | 0.95                       | 0.97                     | 97.94          |
| 11AC80SISO | Ant1    | 5210           | 0.46                       | 0.48                     | 95.83          |

# Test Graphs

11A\_Ant1\_5180

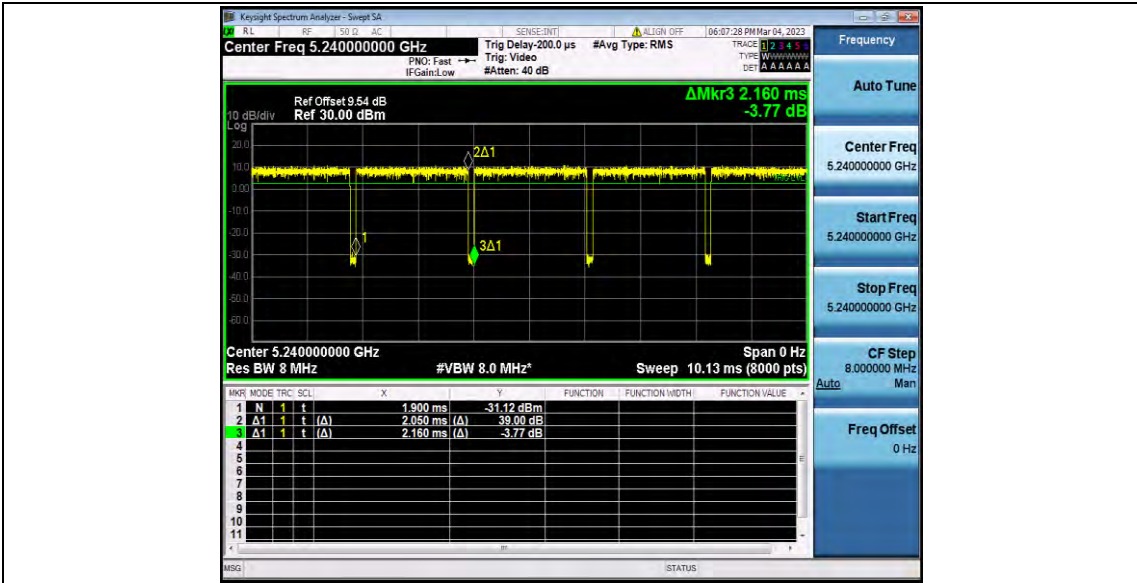


11A\_Ant1\_5200

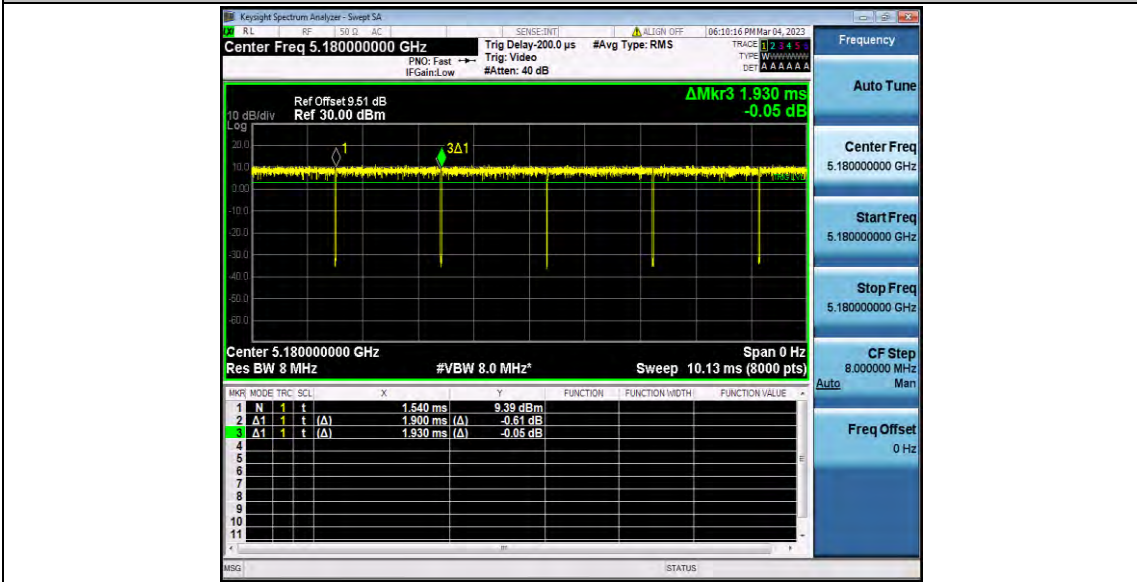


11A\_Ant1\_5240

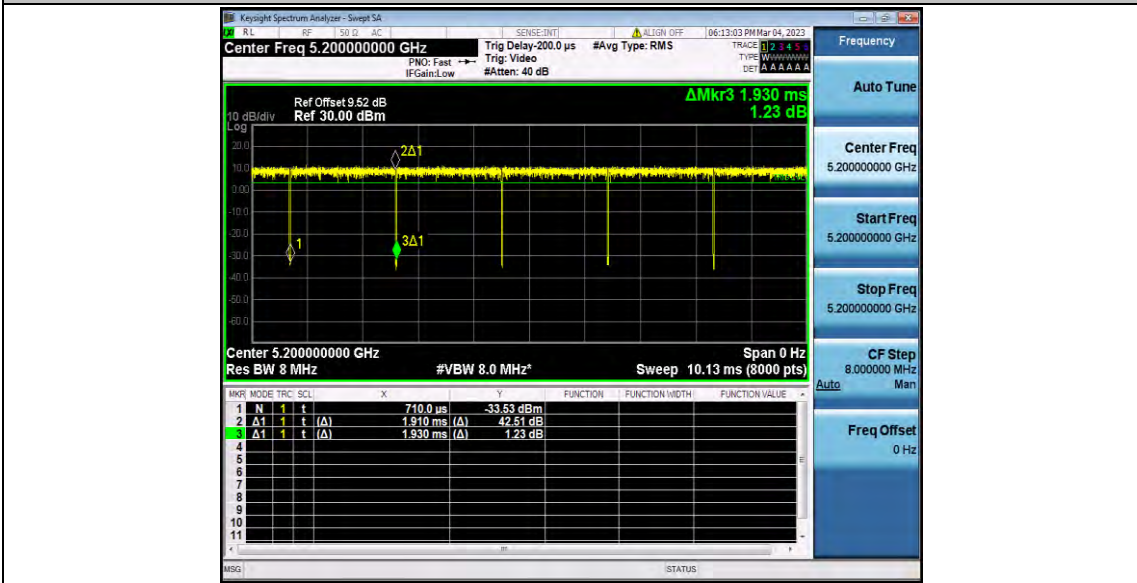




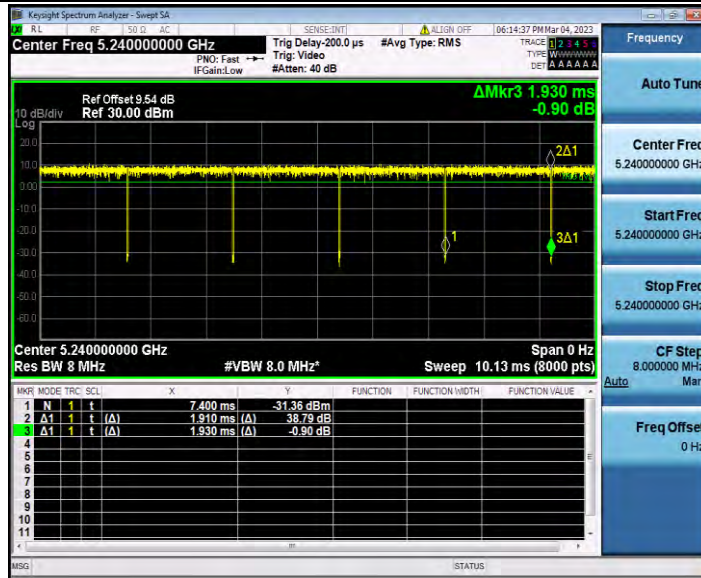
11N20SISO\_Ant1\_5180



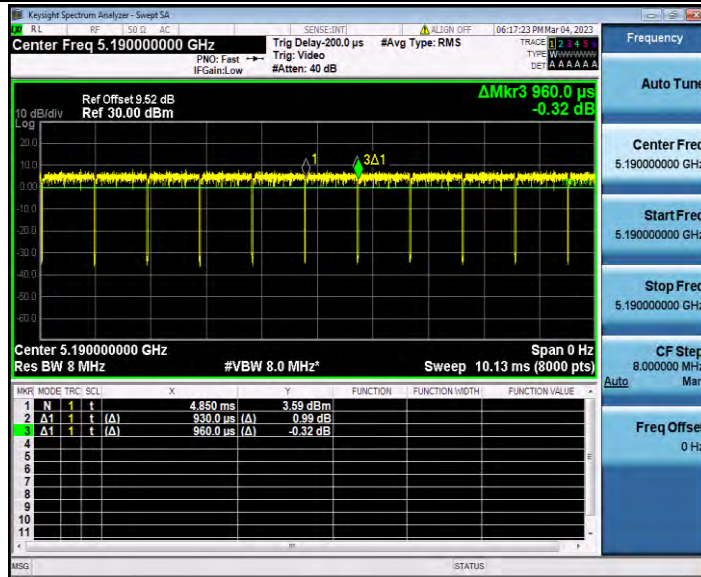
11N20SISO\_Ant1\_5200



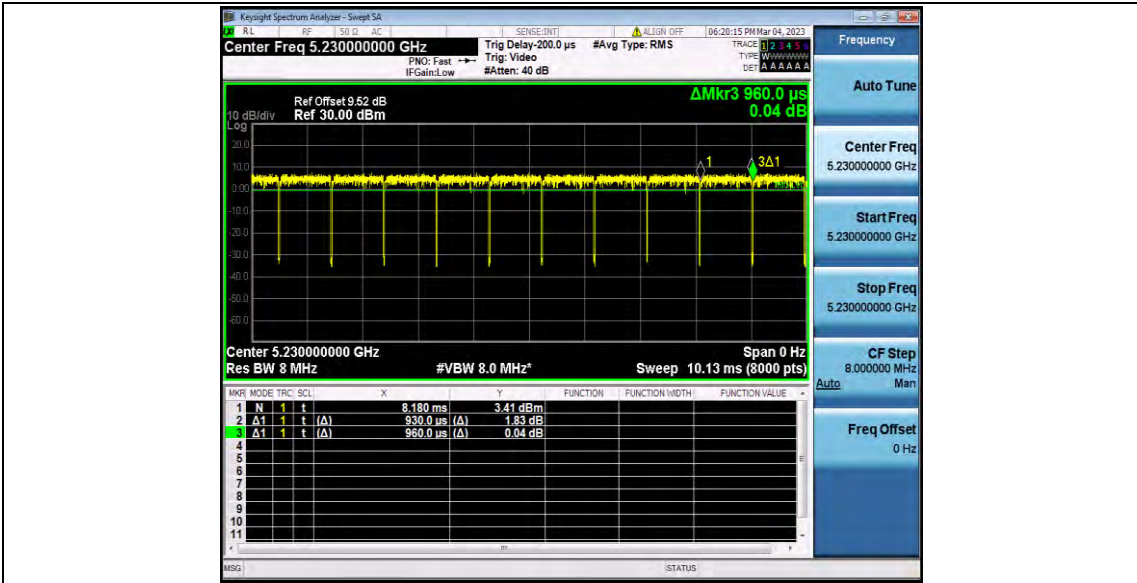
11N20SISO\_Ant1\_5240



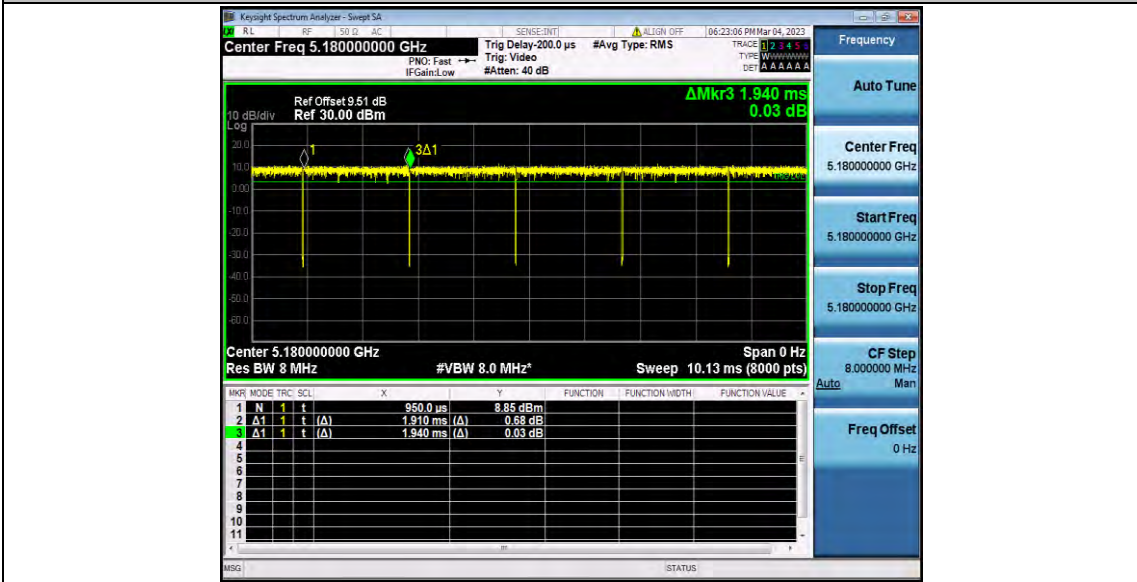
11N40SISO\_Ant1\_5190



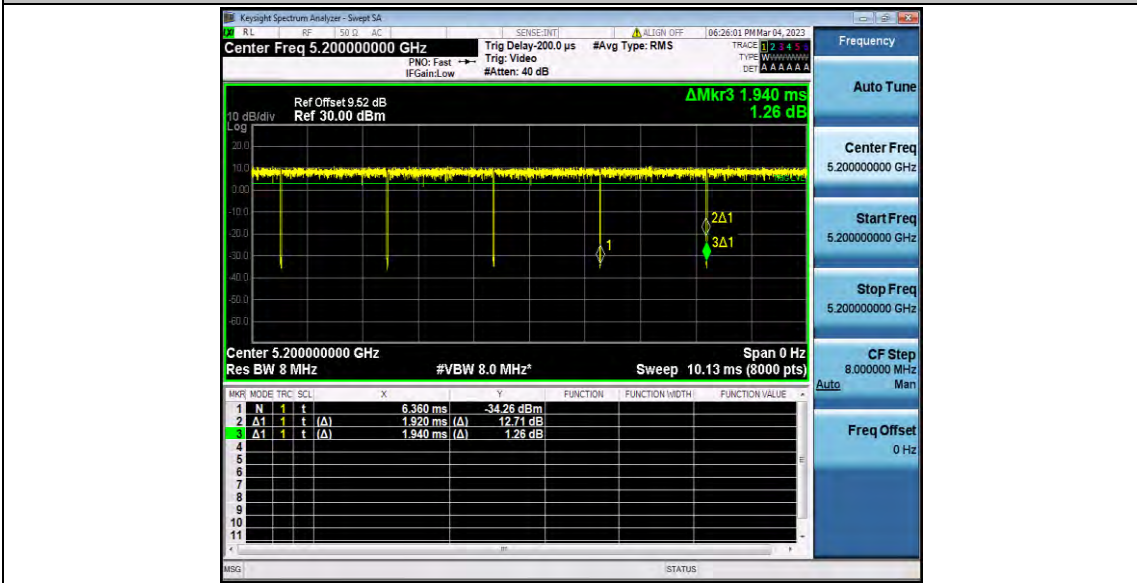
11N40SISO\_Ant1\_5230



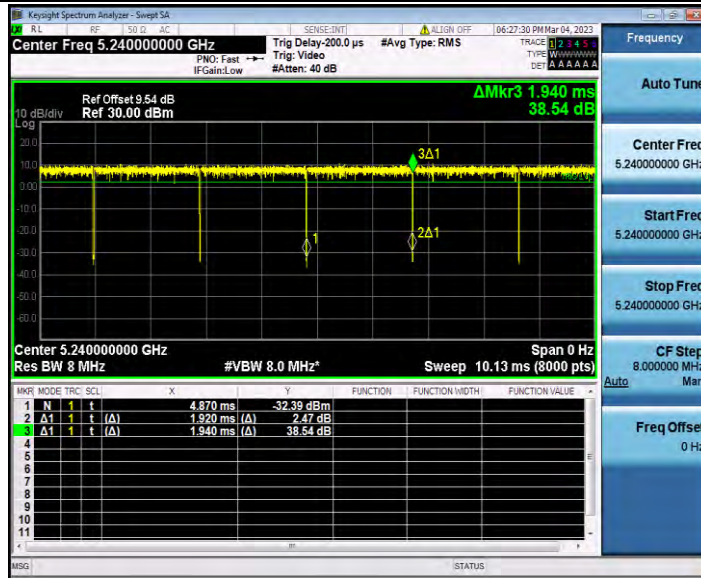
11AC20SISO\_Ant1\_5180



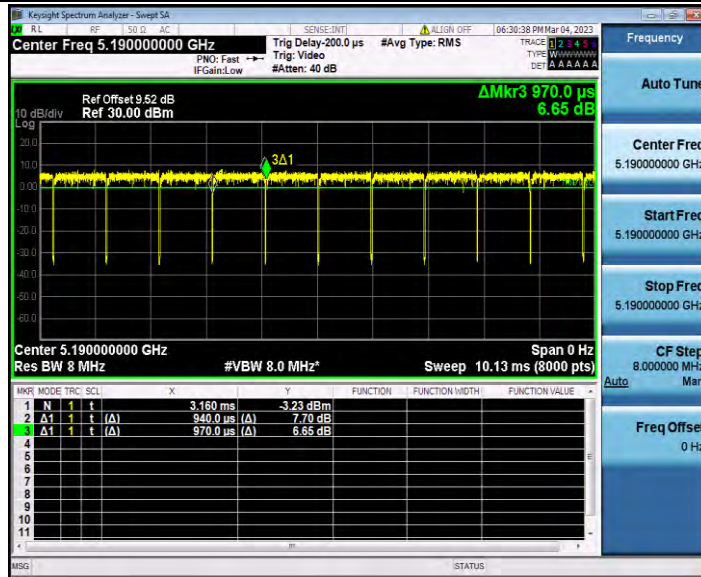
11AC20SISO\_Ant1\_5200



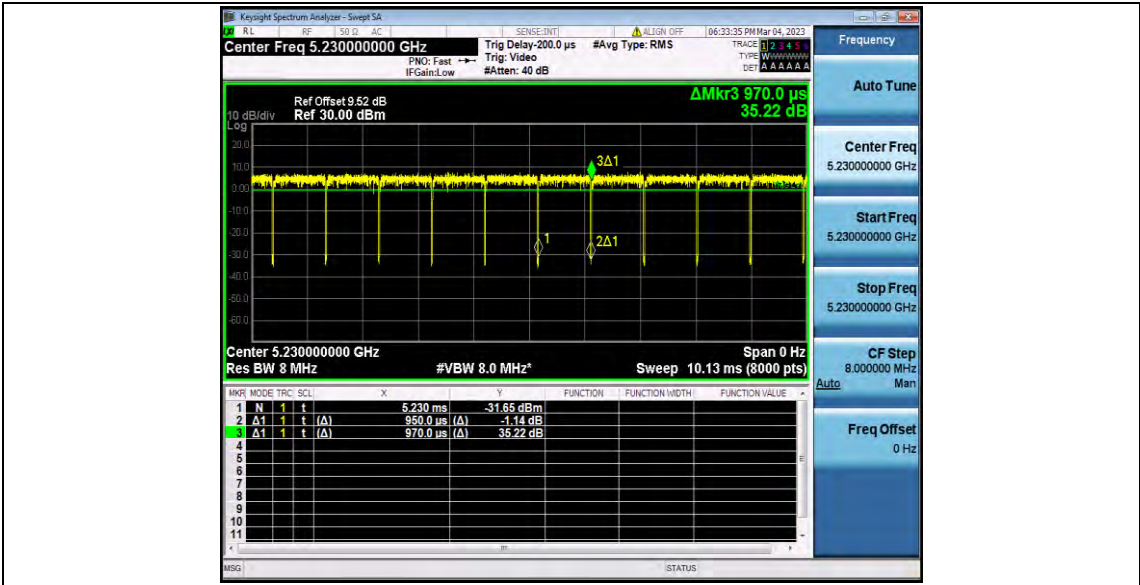
11AC20SISO\_Ant1\_5240



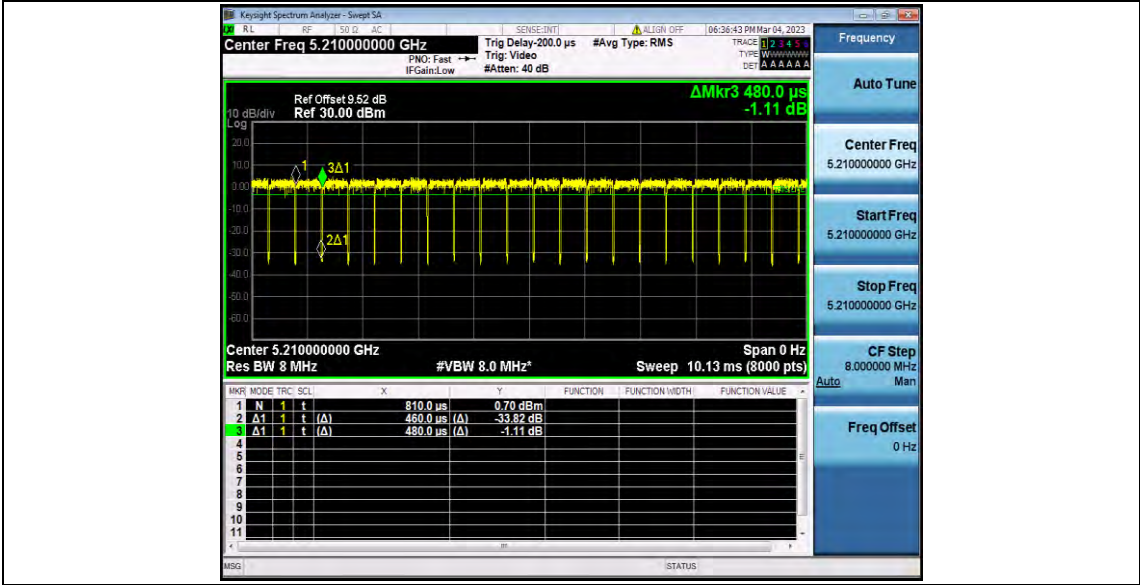
11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210



## Appendix D.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            | 11.06               | 94.91          | 0.23            | 11.29        | ≤23.98      | PASS    |
|            |         | 5200            | 11.03               | 94.91          | 0.23            | 11.26        | ≤23.98      | PASS    |
|            |         | 5240            | 11.07               | 94.91          | 0.23            | 11.30        | ≤23.98      | PASS    |
| 11N20SISO  | Ant1    | 5180            | 11.37               | 98.45          | 0.07            | 11.44        | ≤23.98      | PASS    |
|            |         | 5200            | 11.43               | 98.96          | 0.05            | 11.48        | ≤23.98      | PASS    |
|            |         | 5240            | 10.47               | 98.96          | 0.05            | 10.52        | ≤23.98      | PASS    |
| 11N40SISO  | Ant1    | 5190            | 11.16               | 96.88          | 0.14            | 11.30        | ≤23.98      | PASS    |
|            |         | 5230            | 10.93               | 96.88          | 0.14            | 11.07        | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5180            | 11.49               | 98.45          | 0.07            | 11.56        | ≤23.98      | PASS    |
|            |         | 5200            | 11.06               | 98.97          | 0.04            | 11.10        | ≤23.98      | PASS    |
|            |         | 5240            | 10.53               | 98.97          | 0.04            | 10.57        | ≤23.98      | PASS    |
| 11AC40SISO | Ant1    | 5190            | 11.21               | 96.91          | 0.14            | 11.35        | ≤23.98      | PASS    |
|            |         | 5230            | 10.94               | 97.94          | 0.09            | 11.03        | ≤23.98      | PASS    |
| 11AC80SISO | Ant1    | 5210            | 11.04               | 95.83          | 0.18            | 11.22        | ≤23.98      | PASS    |

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

## Appendix D.5: Maximum power spectral density

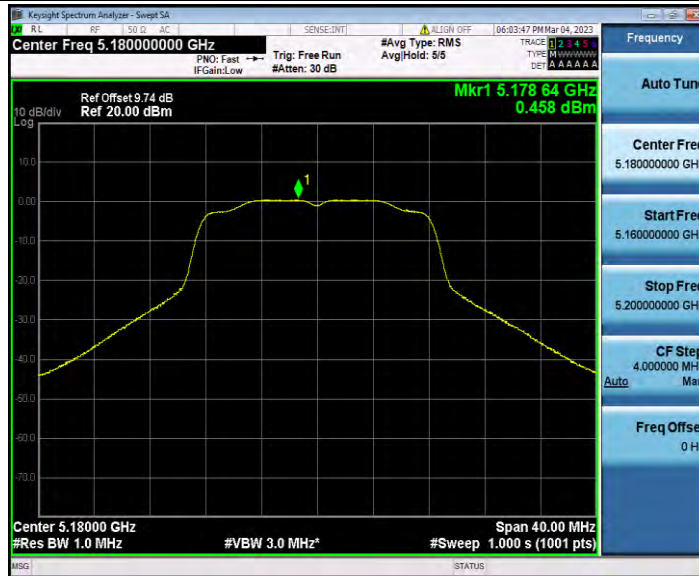
### Test Result

| TestMode   | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|------------------|----------------|---------|
| 11A        | Ant1    | 5180           | 0.46             | ≤11.00         | PASS    |
|            |         | 5200           | 0.43             | ≤11.00         | PASS    |
|            |         | 5240           | 0.42             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5180           | 0.14             | ≤11.00         | PASS    |
|            |         | 5200           | 0.25             | ≤11.00         | PASS    |
|            |         | 5240           | -0.59            | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5190           | -3.14            | ≤11.00         | PASS    |
|            |         | 5230           | -3.18            | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5180           | 0.23             | ≤11.00         | PASS    |
|            |         | 5200           | -0.07            | ≤11.00         | PASS    |
|            |         | 5240           | -0.52            | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5190           | -3.09            | ≤11.00         | PASS    |
|            |         | 5230           | -3.14            | ≤11.00         | PASS    |
| 11AC80SISO | Ant1    | 5210           | -5.99            | ≤11.00         | PASS    |

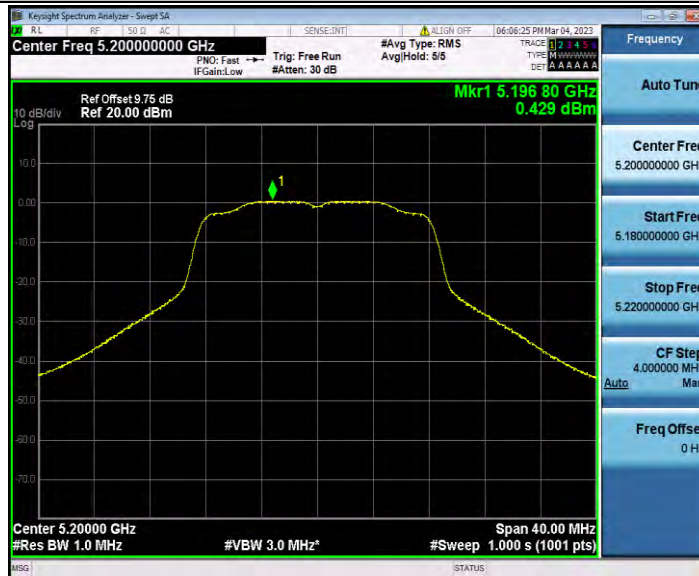
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.  
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

# Test Graphs

11A\_Ant1\_5180

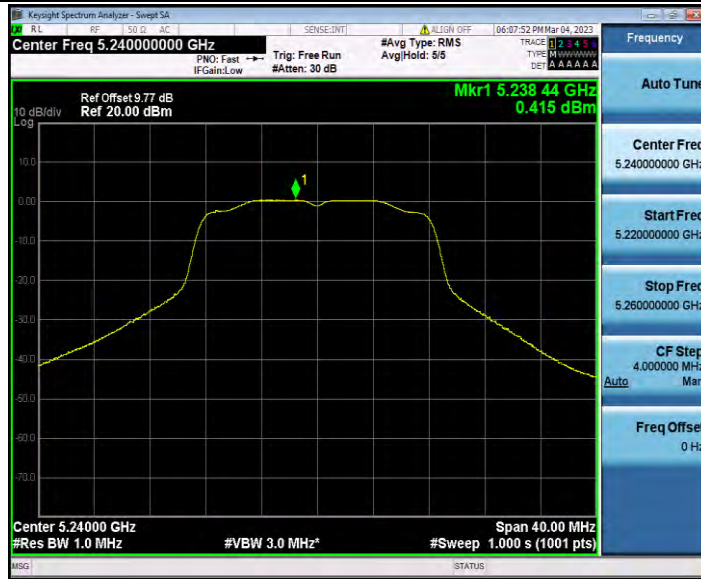


11A\_Ant1\_5200

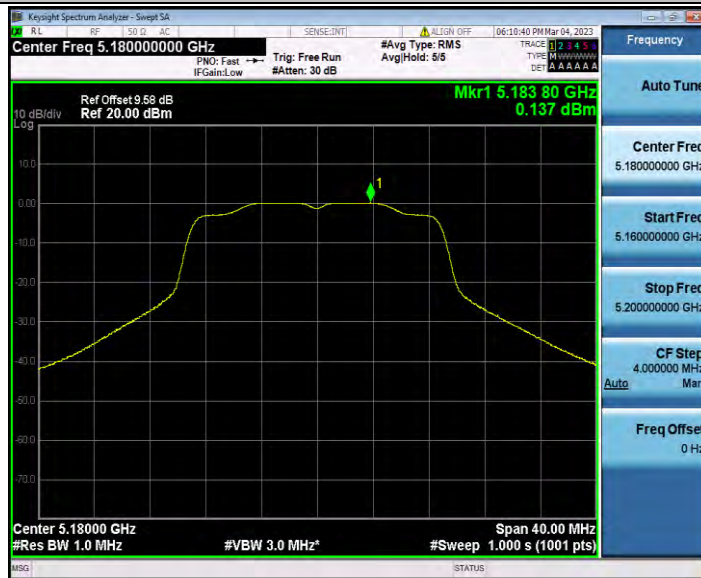


11A\_Ant1\_5240





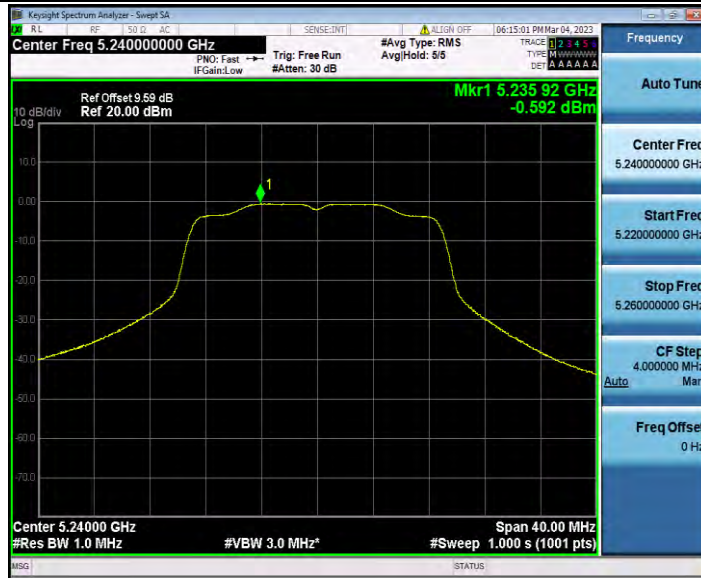
11N20SISO\_Ant1\_5180



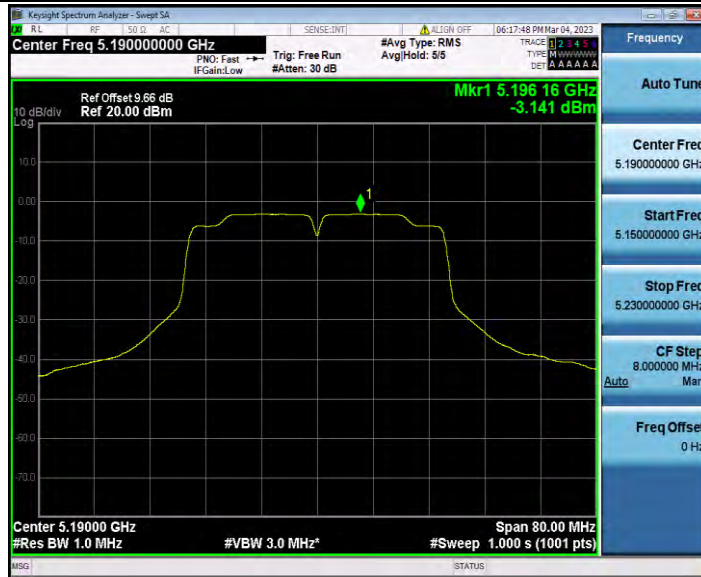
11N20SISO\_Ant1\_5200



11N20SISO\_Ant1\_5240



11N40SISO\_Ant1\_5190



11N40SISO\_Ant1\_5230



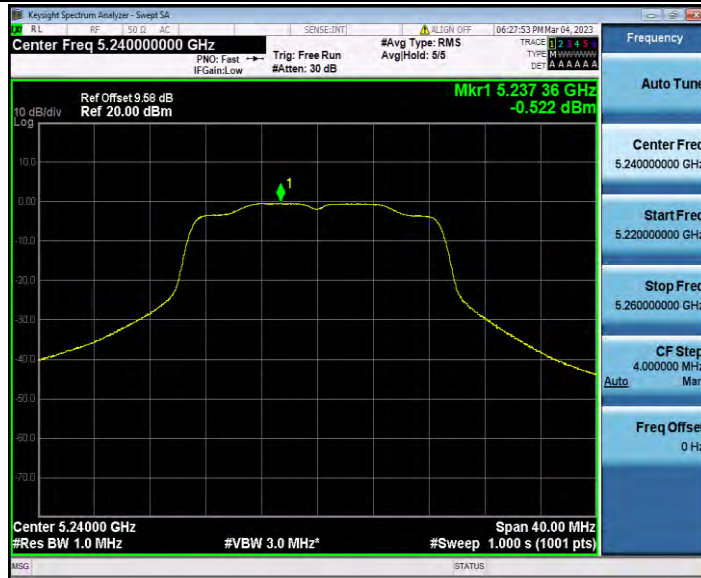
11AC20SISO\_Ant1\_5180



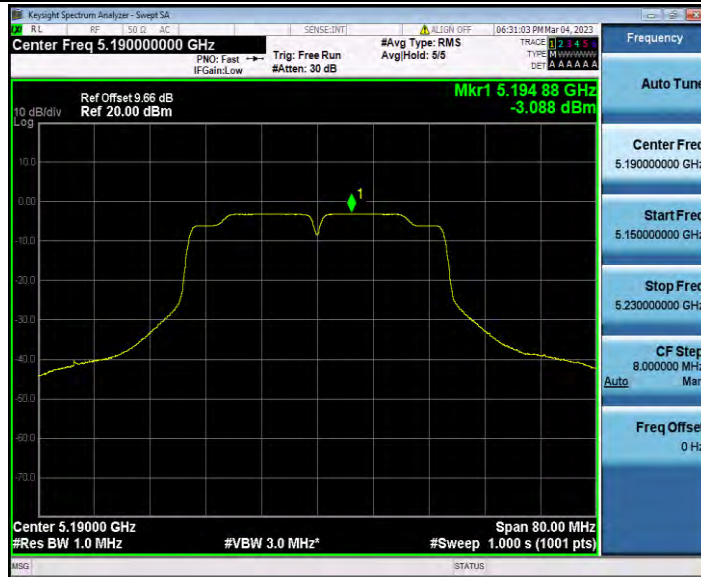
11AC20SISO\_Ant1\_5200



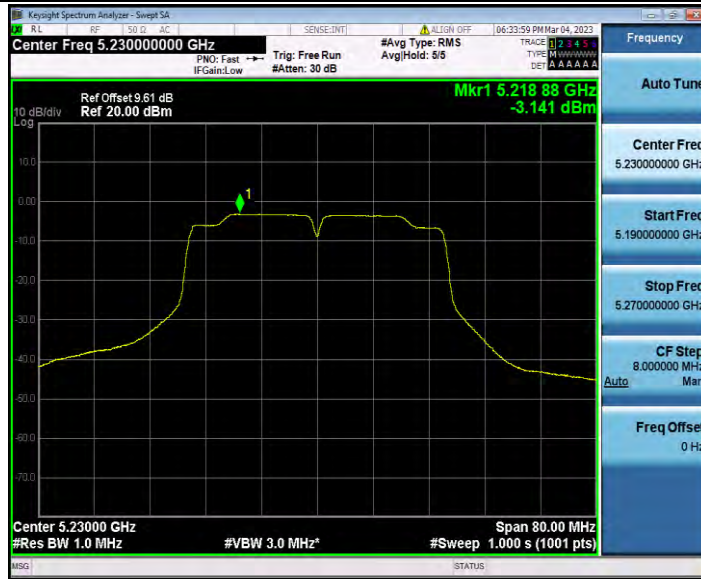
11AC20SISO\_Ant1\_5240



11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230



11AC80SISO\_Ant1\_5210



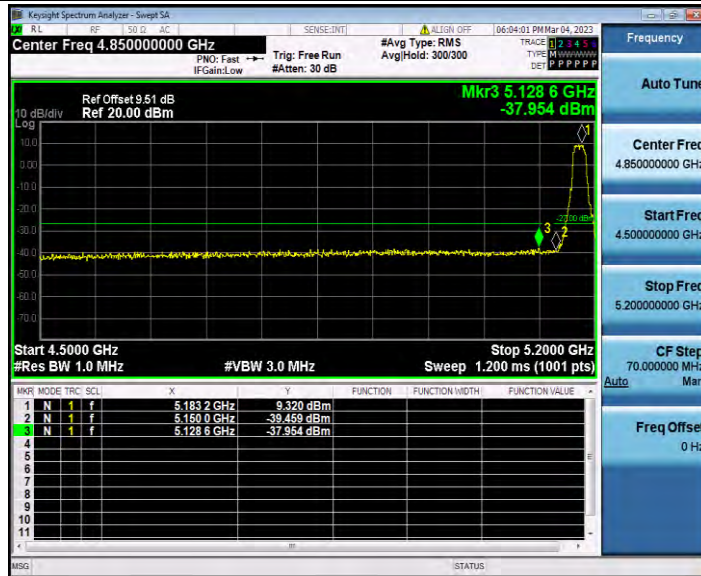
## Appendix D.6: Band edge measurements

### Test Result B1

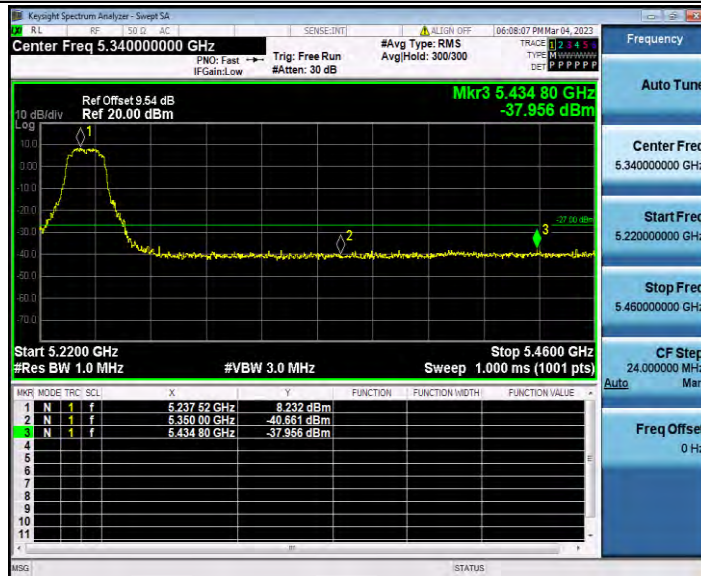
| TestMode   | Antenna | ChName | Frequency[MHz] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------|----------------|-------------|------------|---------|
| 11A        | Ant1    | Low    | 5180           | -37.95      | ≤-27       | PASS    |
|            |         | High   | 5240           | -37.96      | ≤-27       | PASS    |
| 11N20SISO  | Ant1    | Low    | 5180           | -37.39      | ≤-27       | PASS    |
|            |         | High   | 5240           | -37.41      | ≤-27       | PASS    |
| 11N40SISO  | Ant1    | Low    | 5190           | -32.51      | ≤-27       | PASS    |
|            |         | High   | 5230           | -37.89      | ≤-27       | PASS    |
| 11AC20SISO | Ant1    | Low    | 5180           | -37.12      | ≤-27       | PASS    |
|            |         | High   | 5240           | -37.84      | ≤-27       | PASS    |
| 11AC40SISO | Ant1    | Low    | 5190           | -34.4       | ≤-27       | PASS    |
|            |         | High   | 5230           | -37.47      | ≤-27       | PASS    |
| 11AC80SISO | Ant1    | Low    | 5210           | -27.57      | ≤-27       | PASS    |
|            |         | High   | 5210           | -37.58      | ≤-27       | PASS    |

# Test Graphs B1

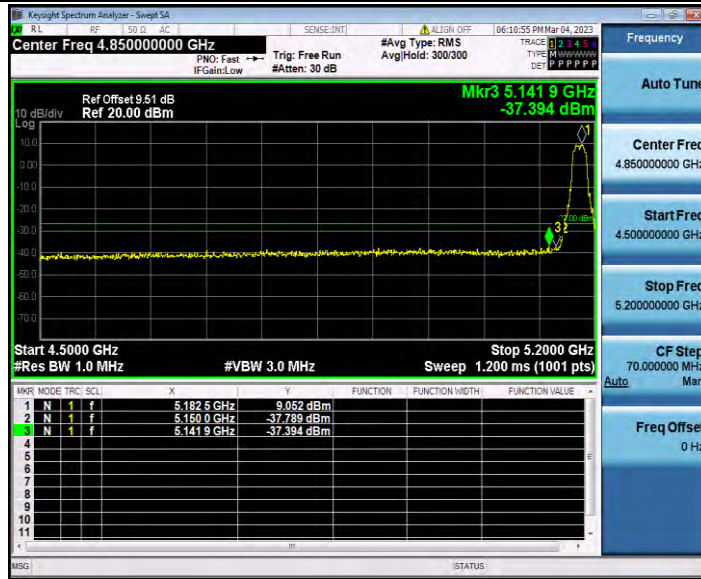
11A\_Ant1\_Low\_5180



11A\_Ant1\_High\_5240



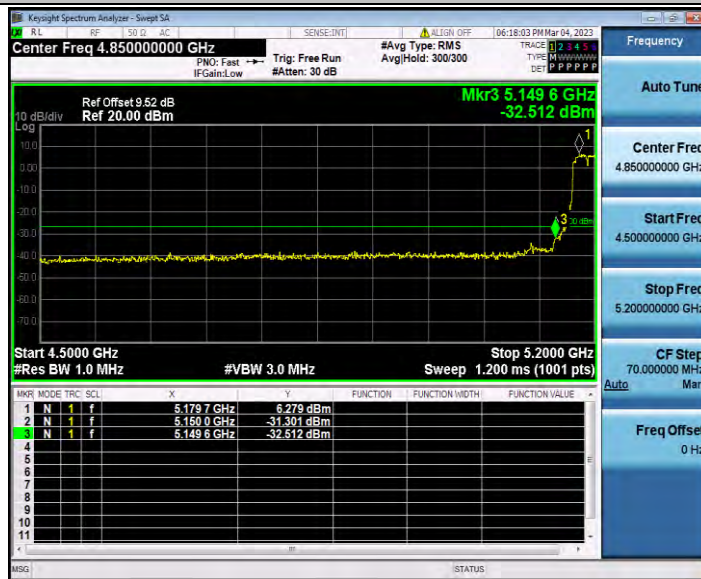
11N20SISO\_Ant1\_Low\_5180



11N20SISO\_Ant1\_High\_5240

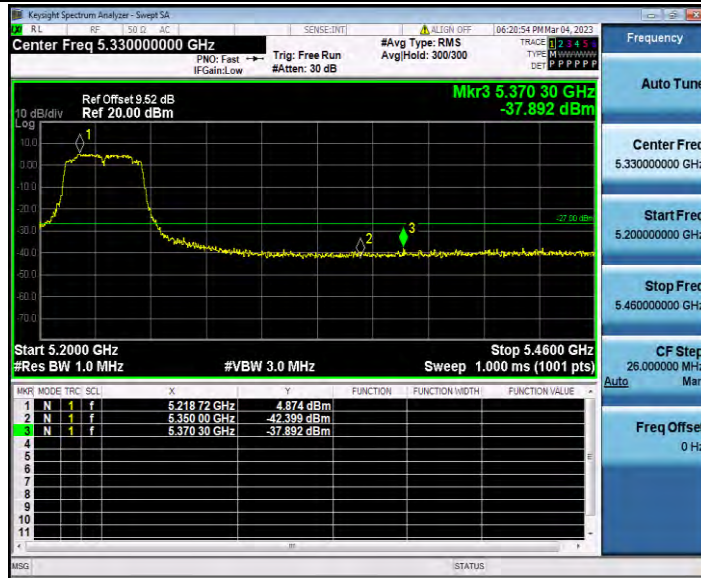


11N40SISO\_Ant1\_Low\_5190

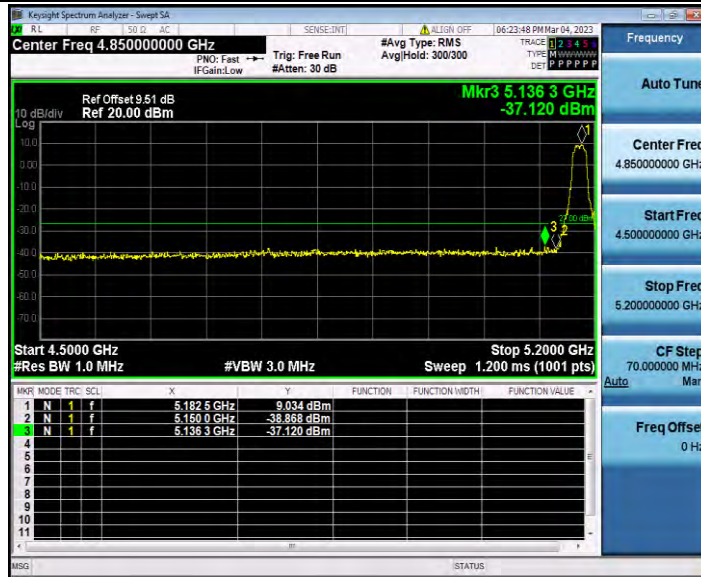




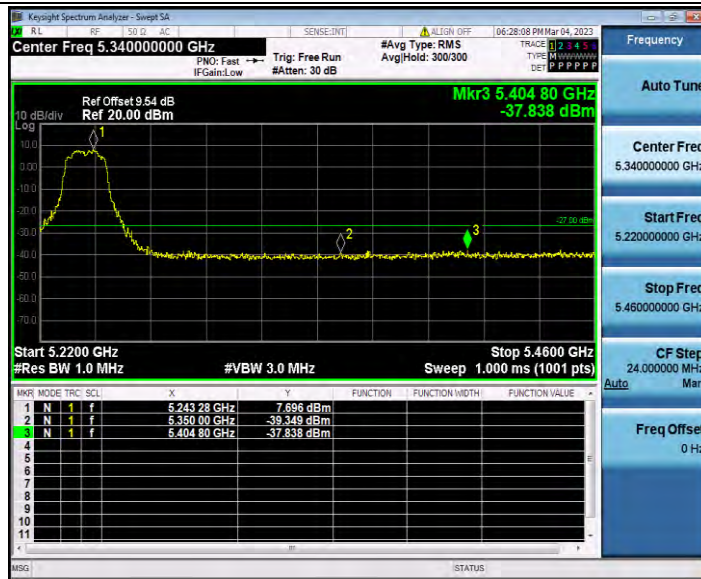
11N40SISO\_Ant1\_High\_5230



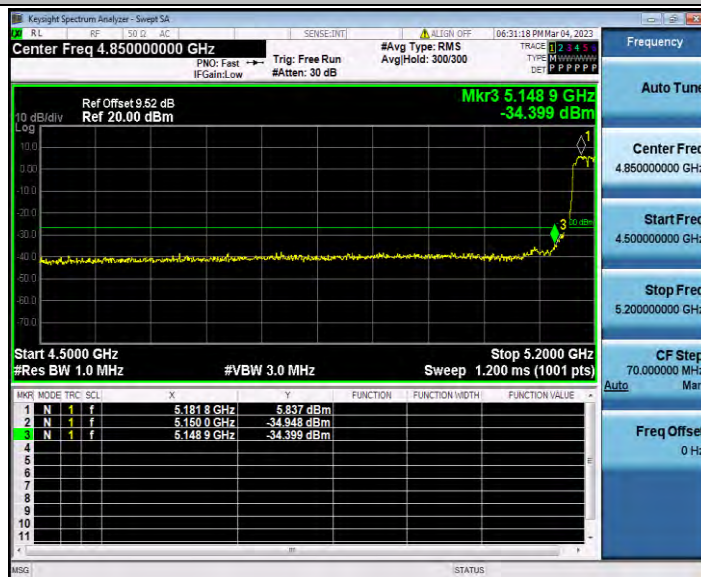
11AC20SISO\_Ant1\_Low\_5180



11AC20SISO\_Ant1\_High\_5240



11AC40SISO\_Ant1\_Low\_5190



11AC40SISO\_Ant1\_High\_5230



### 11AC80SISO\_Ant1\_Low\_5210



### 11AC80SISO\_Ant1\_High\_5210



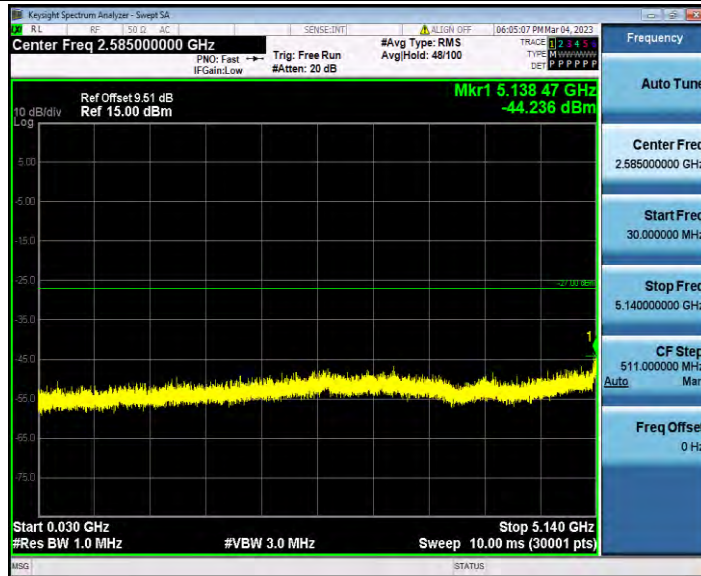
## Appendix D.7: Conducted Spurious Emission

### Test Result

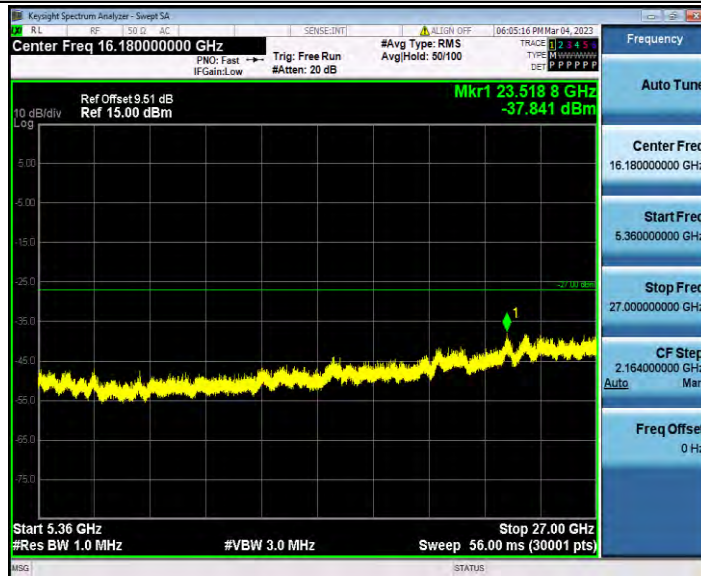
| TestMode   | Antenna | Frequency[MHz] | FreqRange [MHz] | Max. Fre [MHz] | Max. Level [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|-----------------|----------------|------------------|-------------|---------|
| 11A        | Ant1    | 5180           | 30~5140         | 5138.47        | -44.24           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 23518.85       | -37.84           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 5136.08        | -45              | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26007.45       | -38.2            | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 5080.21        | -46.13           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24272.64       | -38.06           | ≤-27        | PASS    |
| 11N20SISO  | Ant1    | 5180           | 30~5140         | 5134.04        | -43.65           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 23591.7        | -37.45           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 5139.49        | -45.21           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 23530.39       | -38.25           | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 5075.44        | -47.1            | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24779.01       | -38.56           | ≤-27        | PASS    |
| 11N40SISO  | Ant1    | 5190           | 30~5140         | 5139.49        | -39.43           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24212.05       | -37.97           | ≤-27        | PASS    |
|            |         | 5230           | 30~5140         | 5131.99        | -45.54           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24745.83       | -37.83           | ≤-27        | PASS    |
| 11AC20SISO | Ant1    | 5180           | 30~5140         | 5127.91        | -43.03           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 25553.01       | -38.29           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 5131.99        | -45.33           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24760.98       | -38.34           | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 5075.1         | -45.89           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 25695.11       | -38.37           | ≤-27        | PASS    |
| 11AC40SISO | Ant1    | 5190           | 30~5140         | 5123.31        | -40.66           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24848.26       | -38.48           | ≤-27        | PASS    |
|            |         | 5230           | 30~5140         | 5139.66        | -45.28           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26542.67       | -38.63           | ≤-27        | PASS    |
| 11AC80SISO | Ant1    | 5210           | 30~5140         | 5130.46        | -28.11           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24823.02       | -36.94           | ≤-27        | PASS    |

# Test Graphs

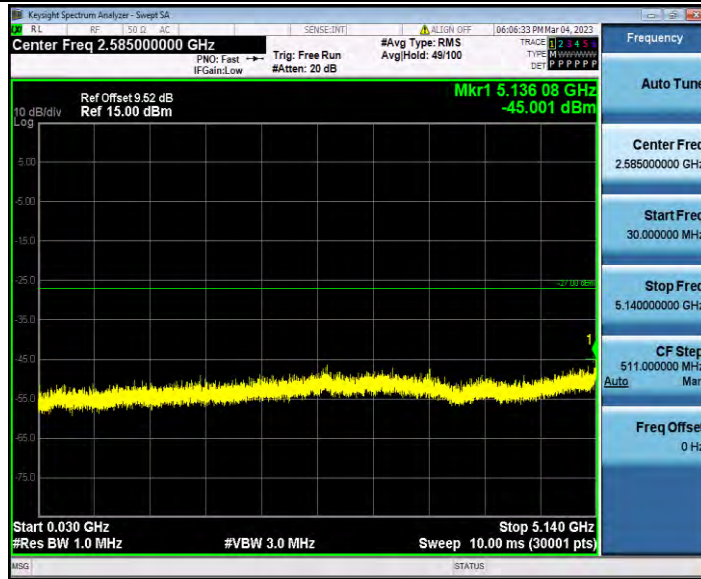
11A\_Ant1\_5180\_30~5140



11A\_Ant1\_5180\_5360~40000



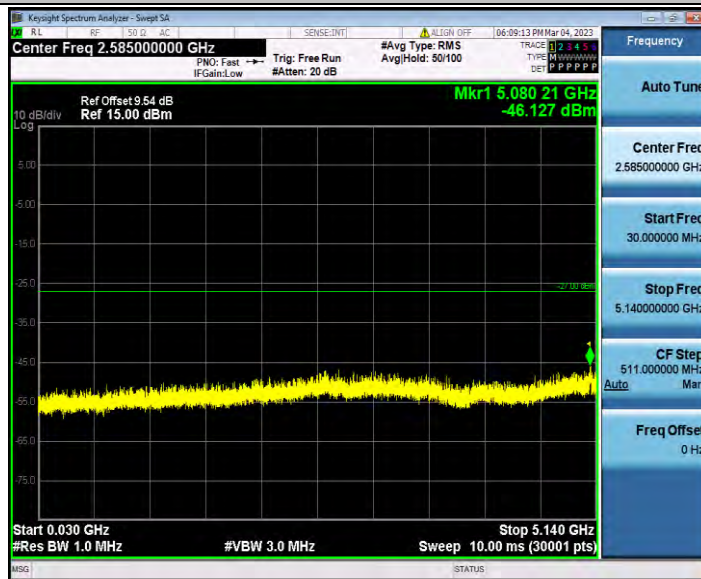
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11A\_Ant1\_5200\_5360~40000



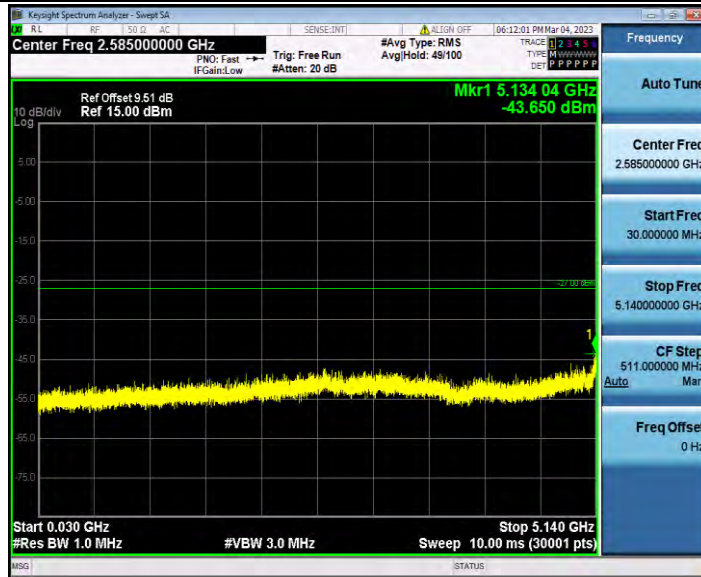
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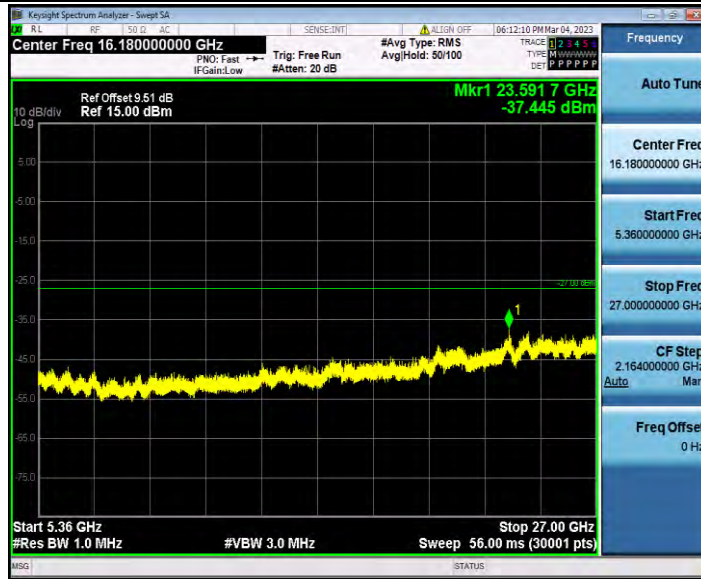
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11N20SISO\_Ant1\_5180\_30~5140



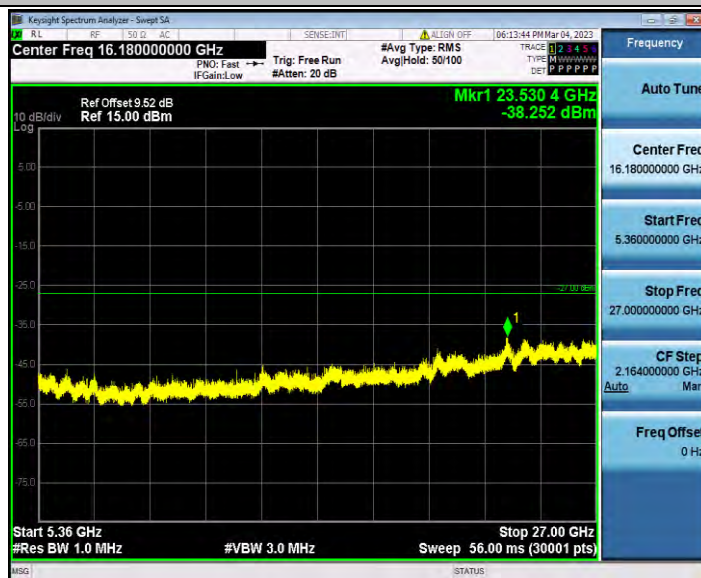
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11N20SISO\_Ant1\_5200\_30~5140

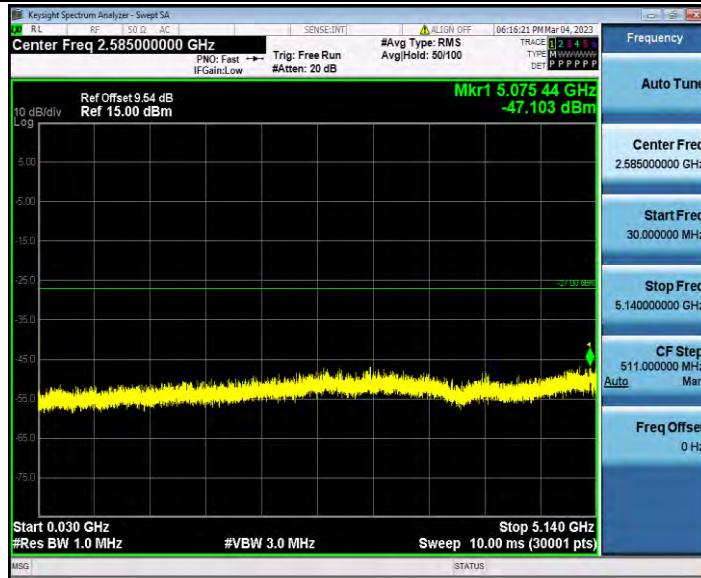


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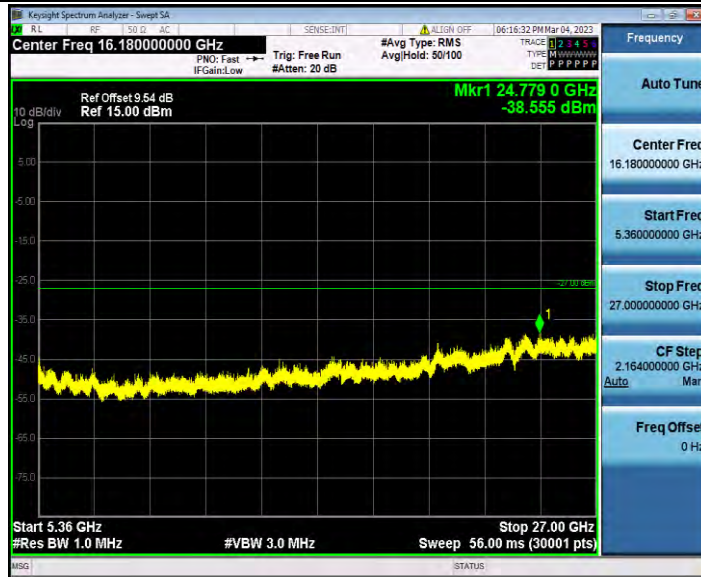




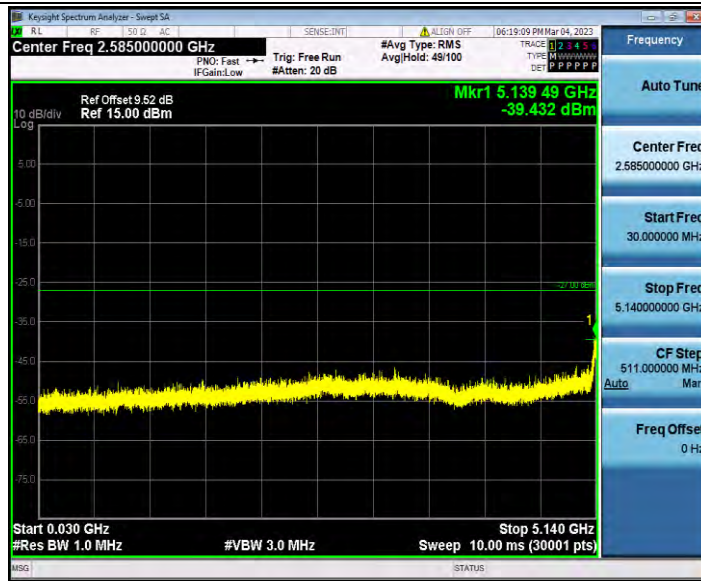
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11N20SISO\_Ant1\_5240\_5360~40000



11N40SISO\_Ant1\_5190\_30~5140



11N40SISO\_Ant1\_5190\_5360~40000



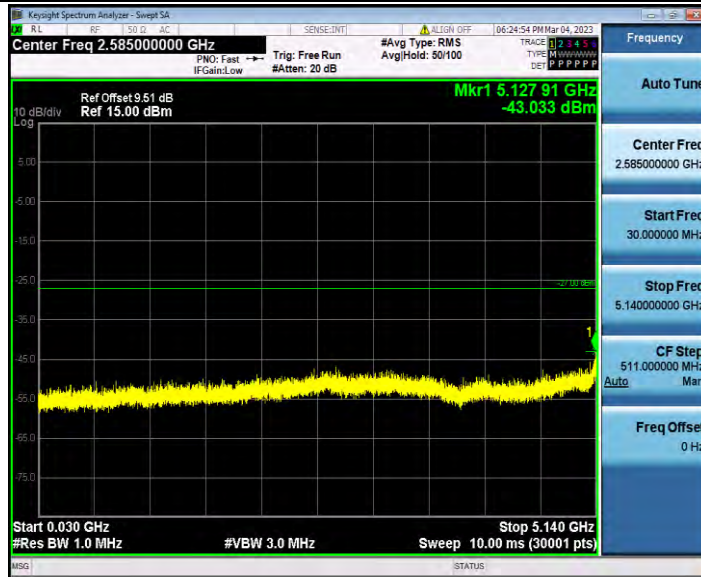
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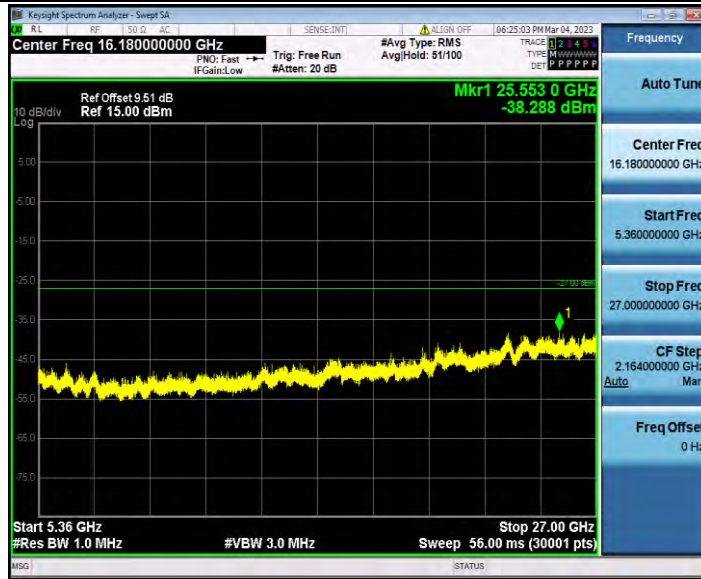
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11AC20SISO\_Ant1\_5180\_30~5140



11AC20SISO\_Ant1\_5180\_5360~40000



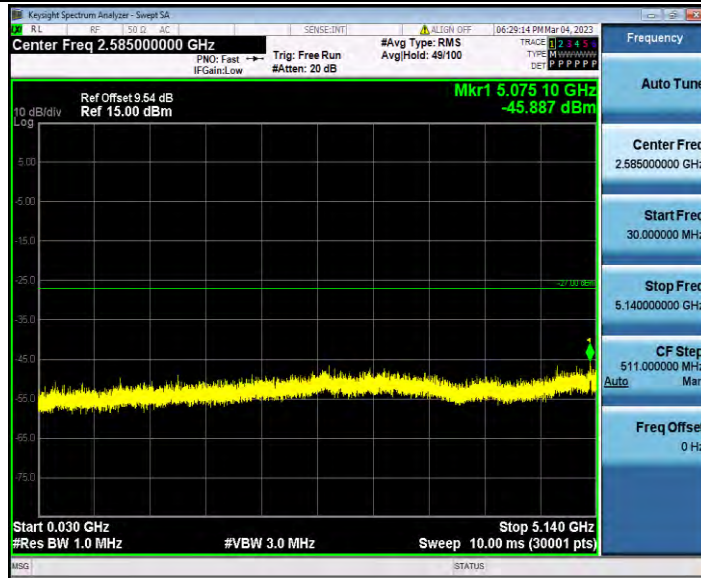
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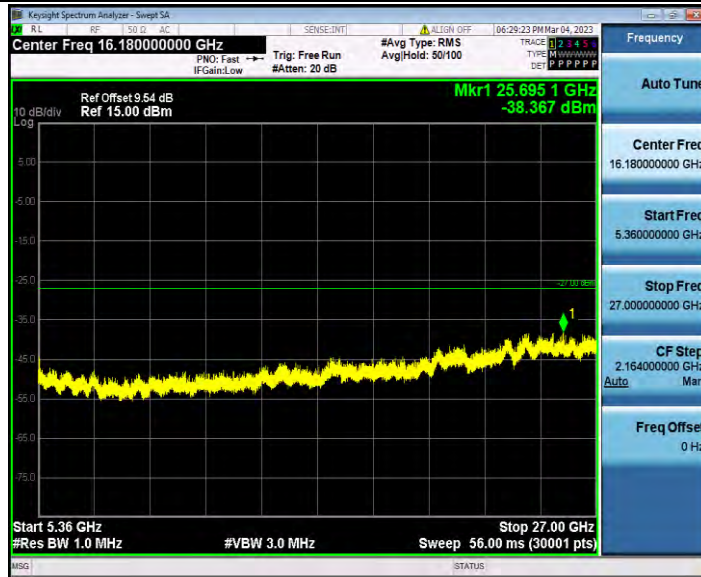
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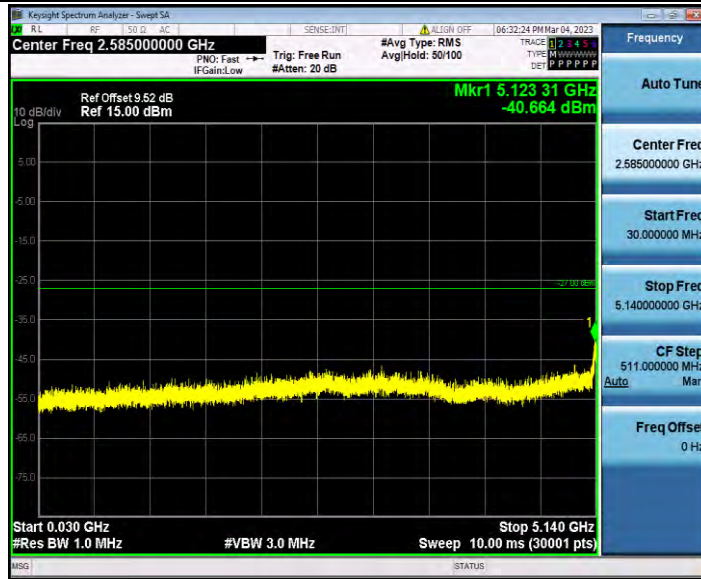
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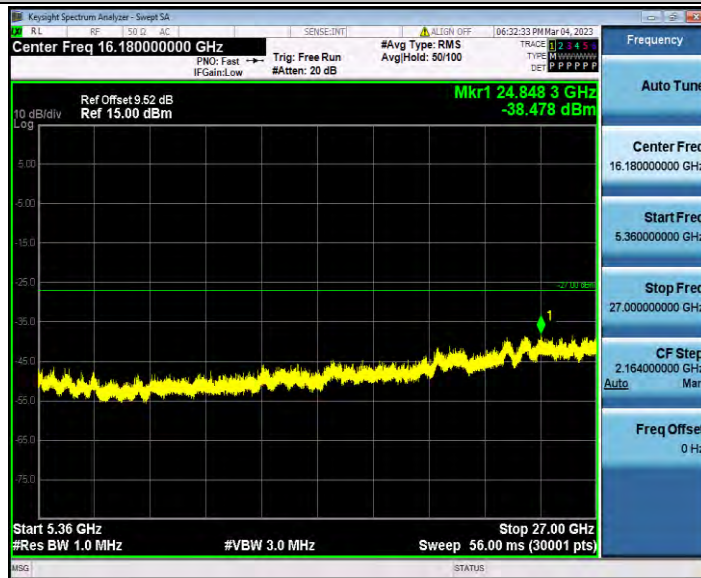
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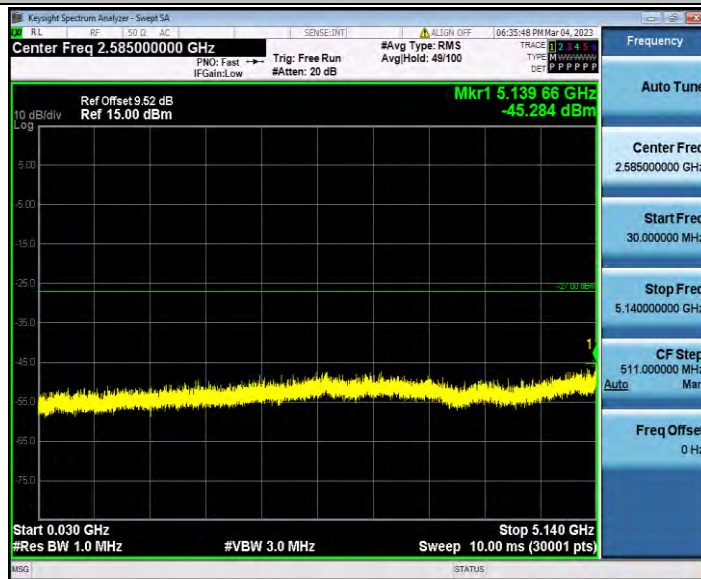
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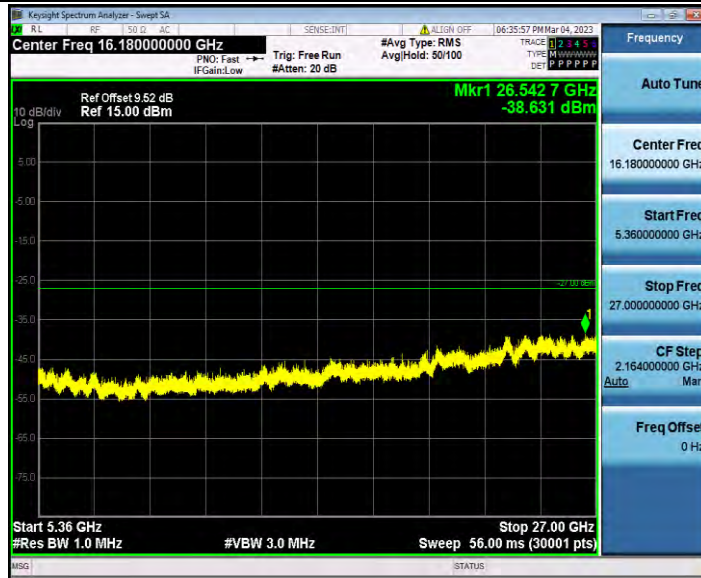
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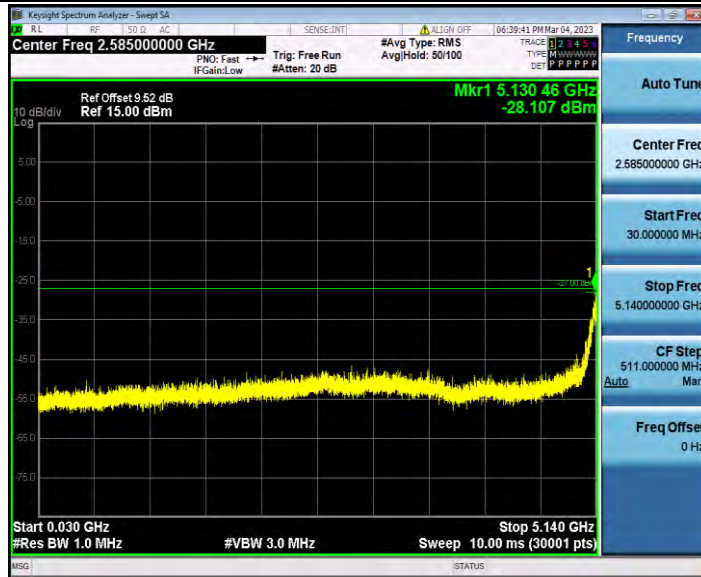
11AC40SISO\_Ant1\_5230\_30~5140



11AC40SISO\_Ant1\_5230\_5360~40000



11AC80SISO\_Ant1\_5210\_30~5140



11AC80SISO\_Ant1\_5210\_5360~40000

