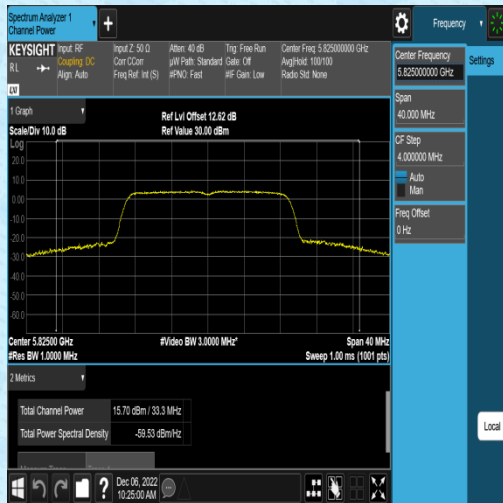
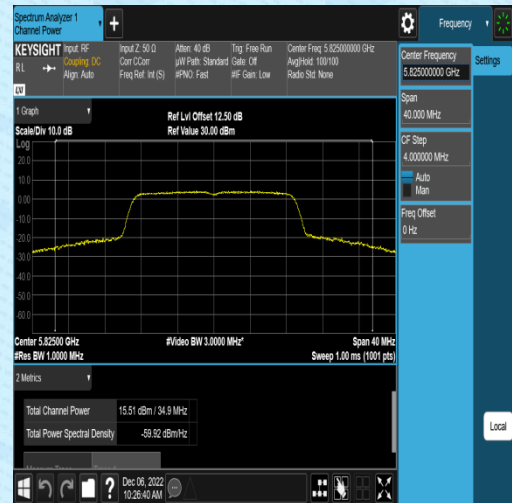
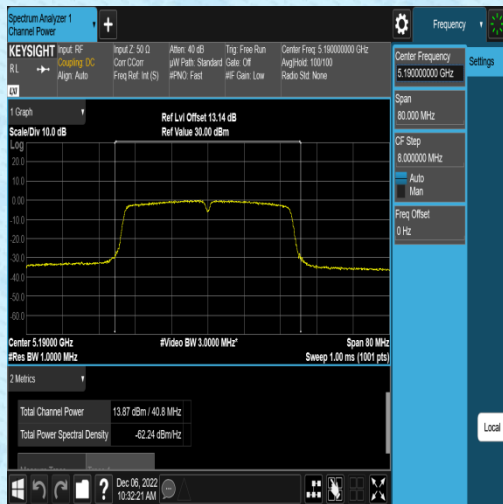




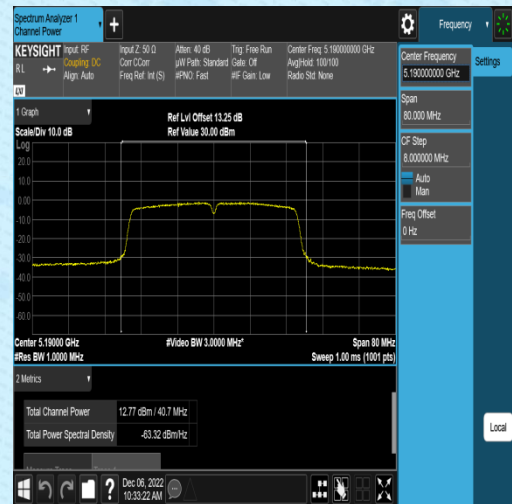
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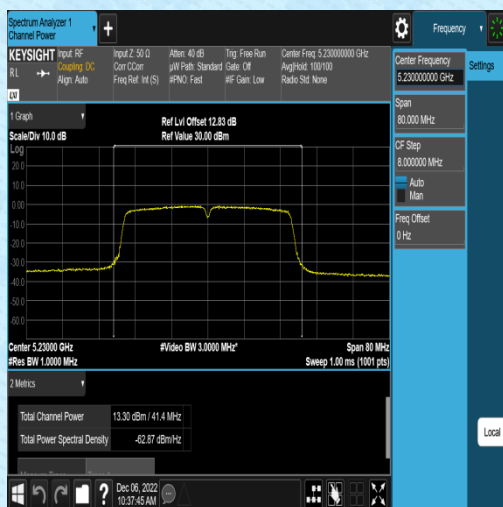
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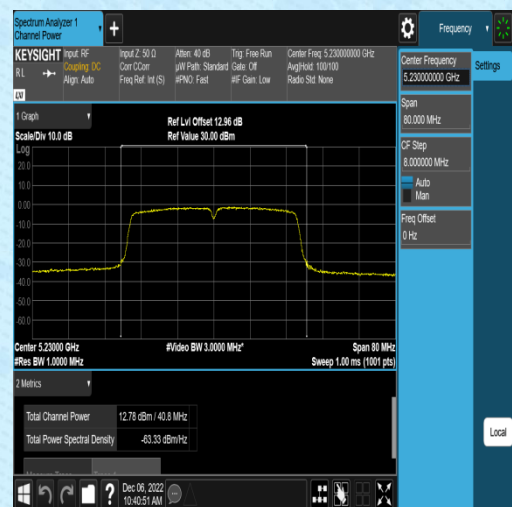
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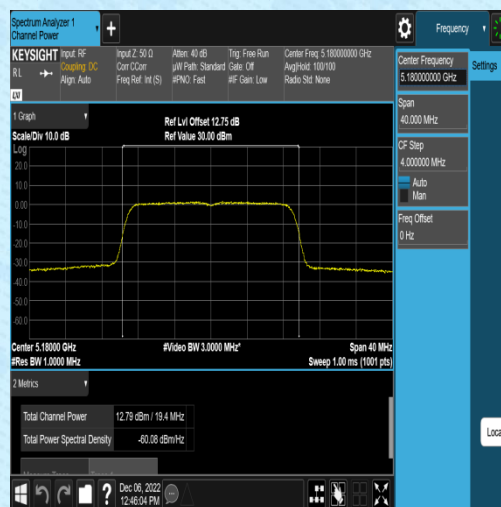
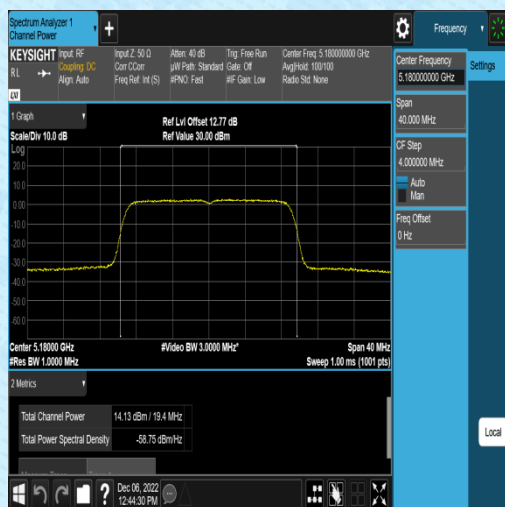
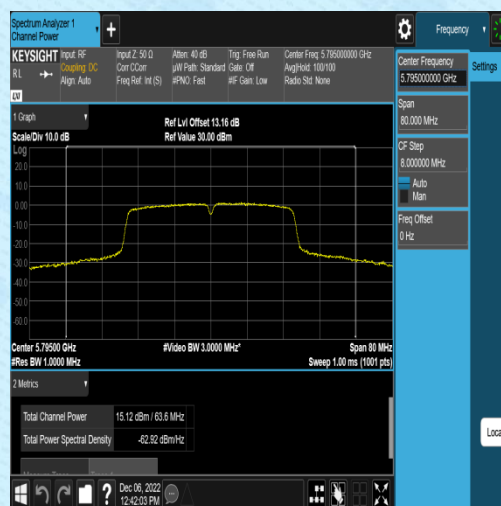
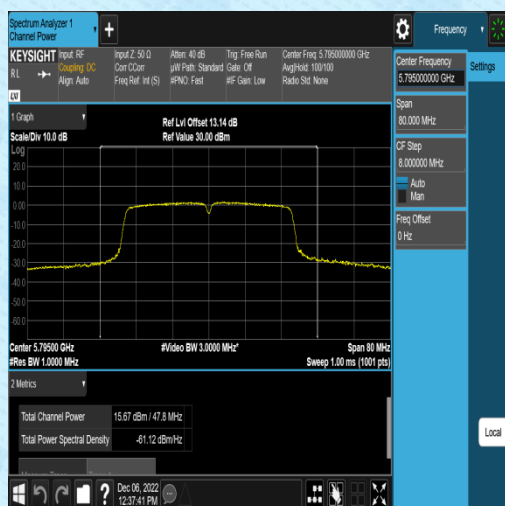
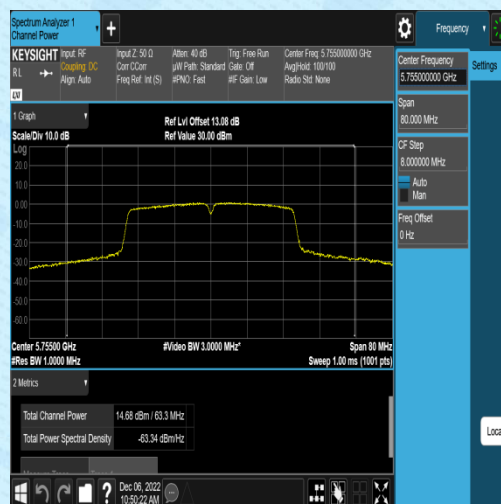
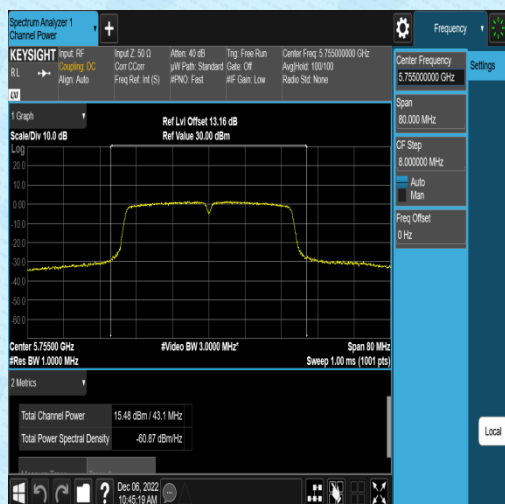
11N40MIMO-Ant2-5230/--11.90-81.74-0.88

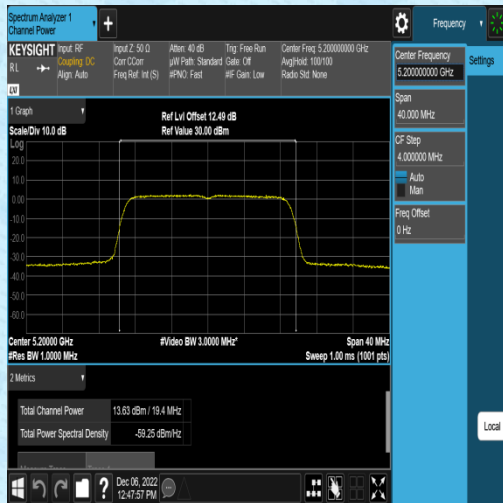


11N40MIMO-Ant1-5755/--14.57-81.03-0.91

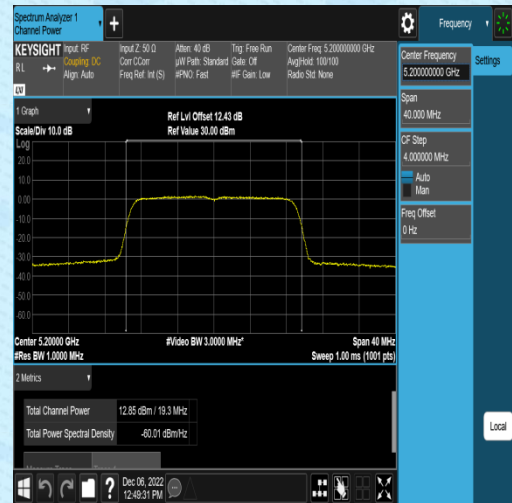


11N40MIMO-Ant2-5755/--13.85-82.61-0.83

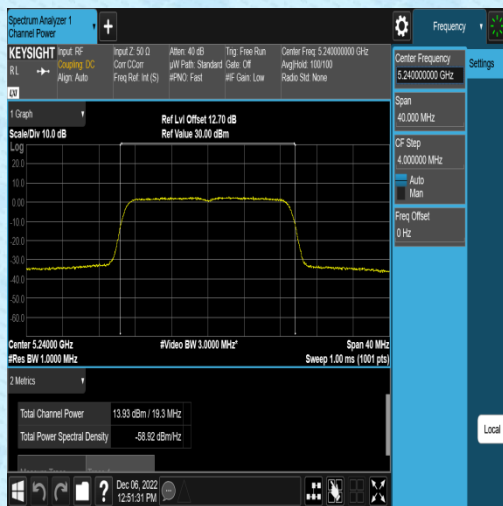




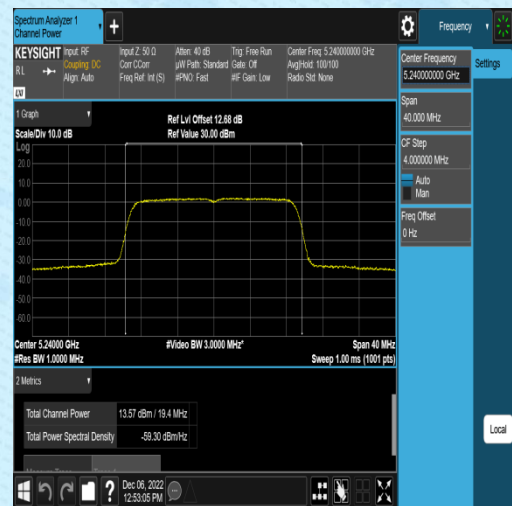
11AC20MIMO-Ant1-5240/--13.42-88.94-0.51



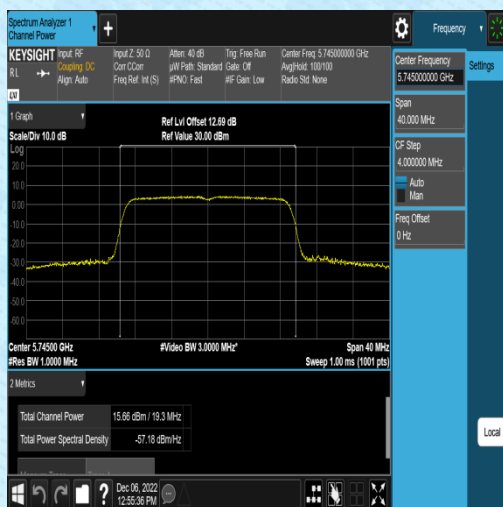
11AC20MIMO-Ant2-5240/--13.08-89.40-0.49



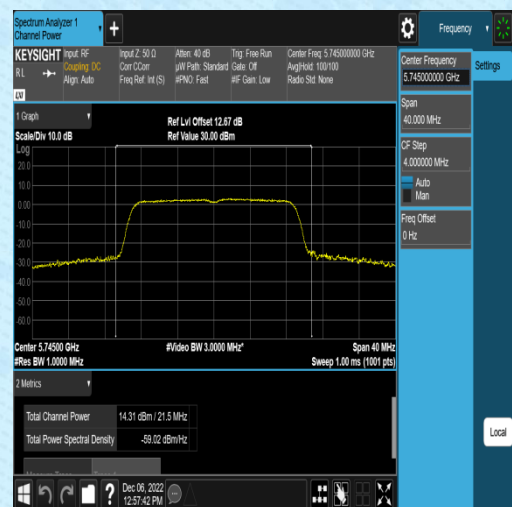
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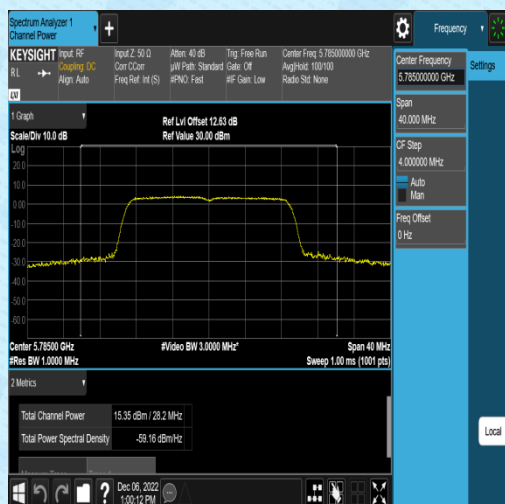
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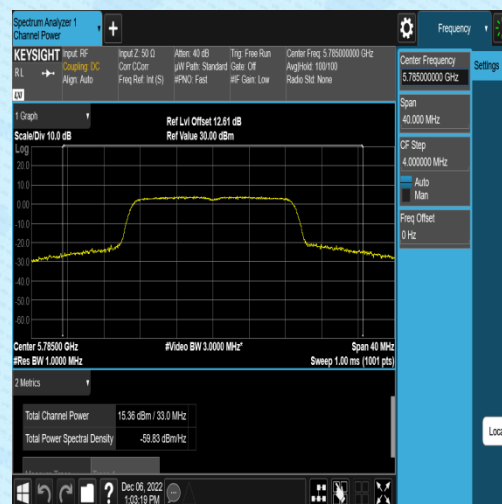
11AC20MIMO-Ant1-5785/--15.01-92.38-0.34



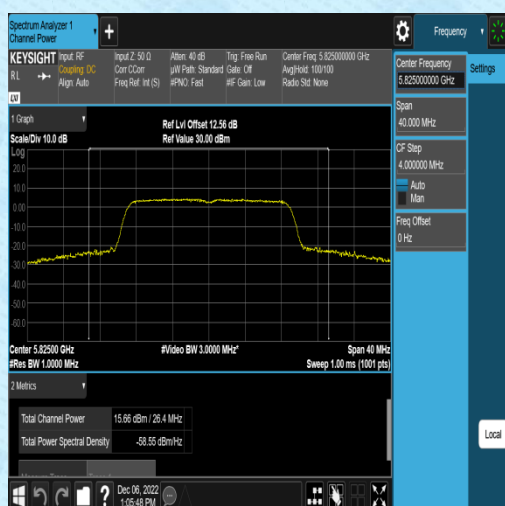
11AC20MIMO-Ant2-5785/--15.04-92.82-0.32



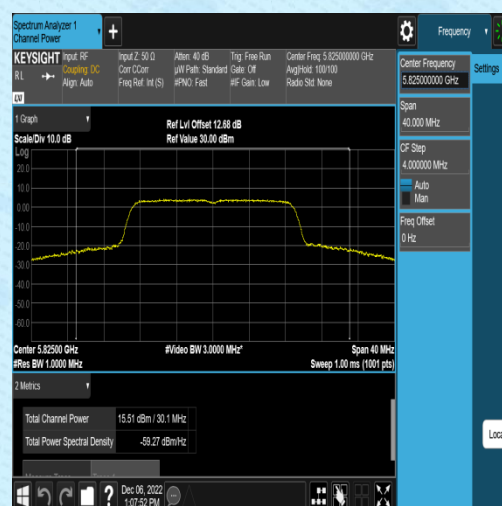
11AC20MIMO-Ant1-5825/--15.27-91.51-0.39



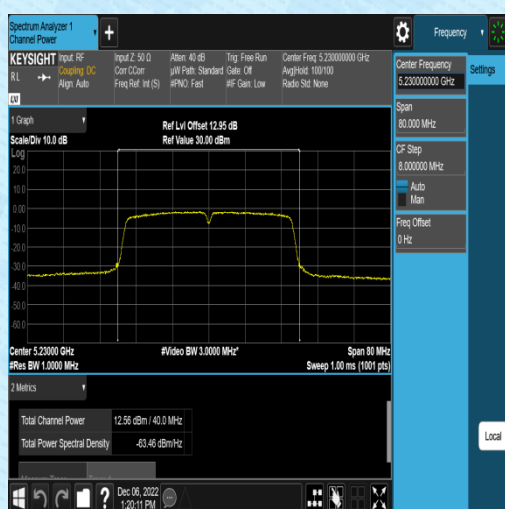
11AC20MIMO-Ant2-5825/--15.00-88.94-0.51



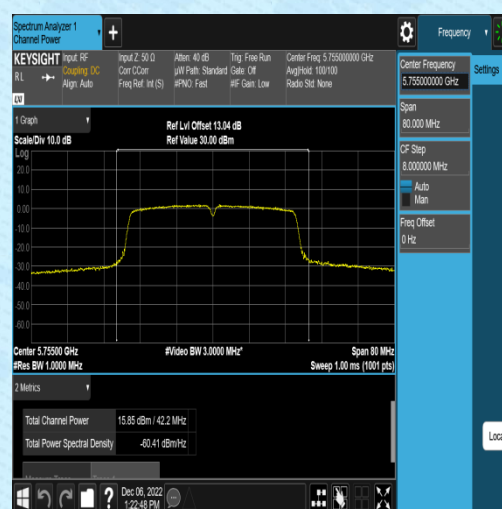
11AC40MIMO-Ant2-5230/--11.69-81.90-0.87



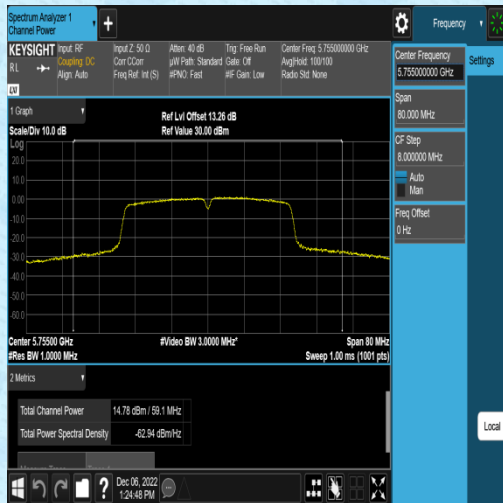
11AC40MIMO-Ant1-5755/--15.06-83.33-0.79



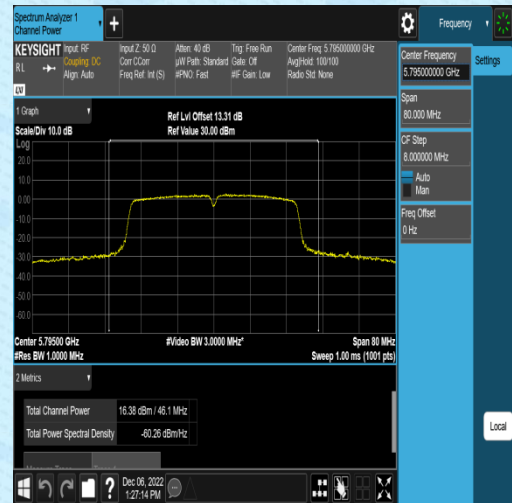
11AC40MIMO-Ant2-5755/--13.77-79.34-1.01



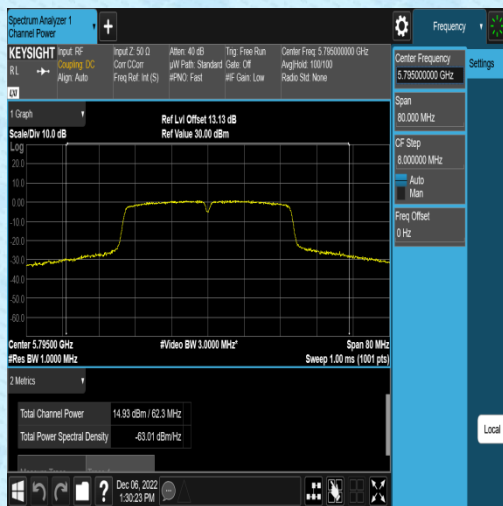
11AC40MIMO-Ant1-5795/--15.33-78.51-1.05



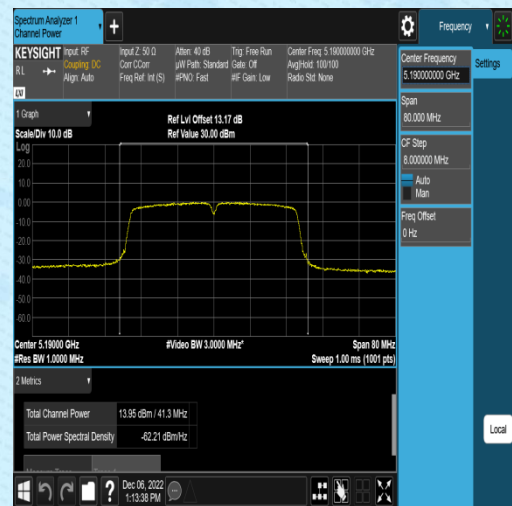
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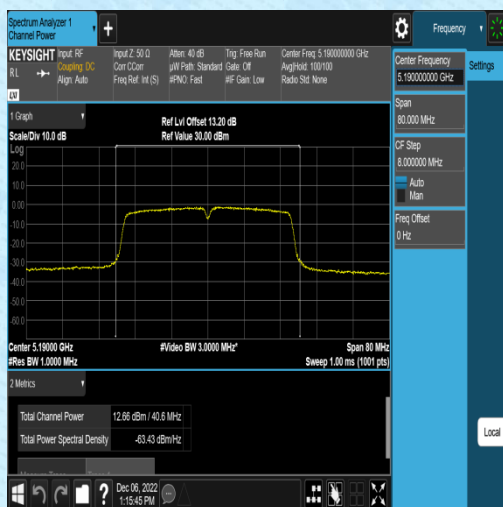
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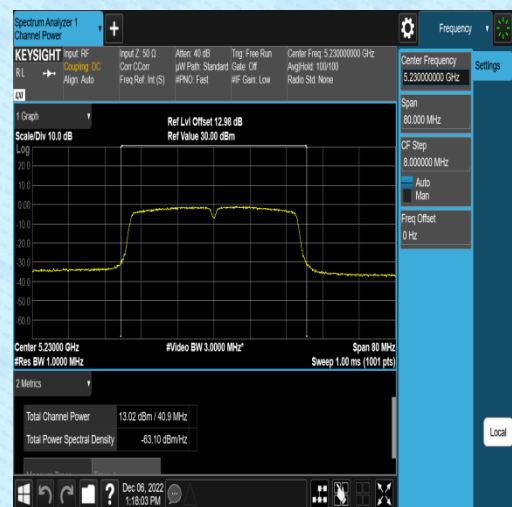
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11AC40MIMO-Ant1-5230/--12.12-81.20-0.90



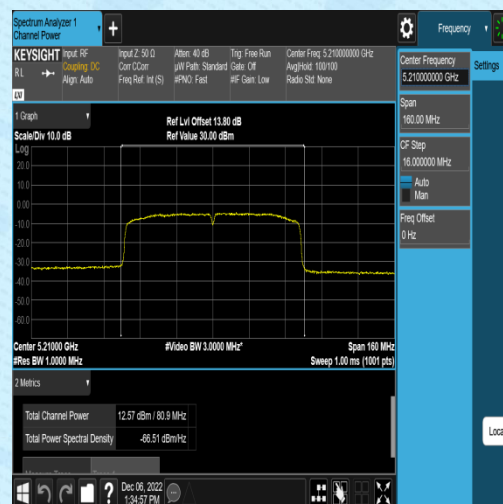
11AC80MIMO-Ant1-5210/--11.59-65.71-1.82



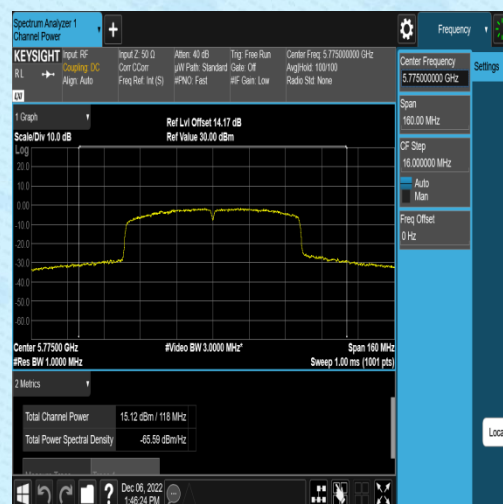
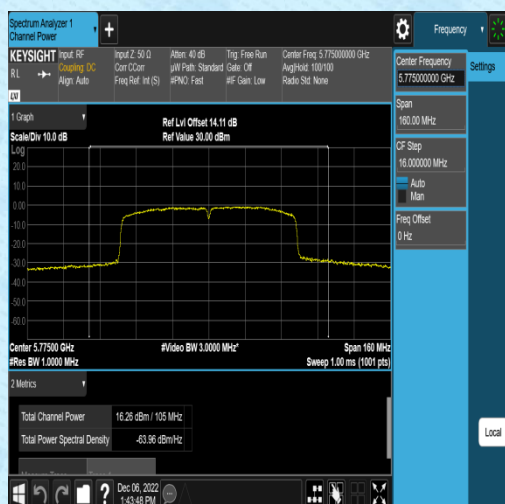
11AC80MIMO-Ant2-5210/--10.81-66.67-1.76



11AC80MIMO-Ant1-5775/-14.44-65.71-1.82



11AC80MIMO-Ant2-5775/-13.24-64.79-1.88



## 6. Maximum power spectral density

### Test Result

| TestMode   | Antenna | Frequency [MHz] | Rate  | Result | Limit  | Unit       | Verdict |
|------------|---------|-----------------|-------|--------|--------|------------|---------|
| 11A        | Ant1    | 5180            | 6Mbps | 2.42   | ≤11.00 | dBm/MHz    | PASS    |
| 11A        | Ant1    | 5200            | 6Mbps | 1.9    | ≤11.00 | dBm/MHz    | PASS    |
| 11A        | Ant1    | 5240            | 6Mbps | 3.11   | ≤11.00 | dBm/MHz    | PASS    |
| 11A        | Ant1    | 5745            | 6Mbps | 1.41   | ≤30.00 | dBm/500KHz | PASS    |
| 11A        | Ant1    | 5785            | 6Mbps | 2.62   | ≤30.00 | dBm/500KHz | PASS    |
| 11A        | Ant1    | 5825            | 6Mbps | 2.4    | ≤30.00 | dBm/500KHz | PASS    |
| 11N20SISO  | Ant1    | 5180            | MCS0  | 3.22   | ≤11.00 | dBm/MHz    | PASS    |
| 11N20SISO  | Ant1    | 5200            | MCS0  | 2.69   | ≤11.00 | dBm/MHz    | PASS    |
| 11N20SISO  | Ant1    | 5240            | MCS0  | 3.11   | ≤11.00 | dBm/MHz    | PASS    |
| 11N20SISO  | Ant1    | 5745            | MCS0  | 2.07   | ≤30.00 | dBm/500KHz | PASS    |
| 11N20SISO  | Ant1    | 5785            | MCS0  | 2.15   | ≤30.00 | dBm/500KHz | PASS    |
| 11N20SISO  | Ant1    | 5825            | MCS0  | 2.03   | ≤30.00 | dBm/500KHz | PASS    |
| 11N40SISO  | Ant1    | 5190            | MCS0  | 0.16   | ≤11.00 | dBm/MHz    | PASS    |
| 11N40SISO  | Ant1    | 5230            | MCS0  | -0.34  | ≤11.00 | dBm/MHz    | PASS    |
| 11N40SISO  | Ant1    | 5755            | MCS0  | -0.77  | ≤30.00 | dBm/500KHz | PASS    |
| 11N40SISO  | Ant1    | 5795            | MCS0  | -1.02  | ≤30.00 | dBm/500KHz | PASS    |
| 11AC20SISO | Ant1    | 5180            | MCS0  | 3.05   | ≤11.00 | dBm/MHz    | PASS    |
| 11AC20SISO | Ant1    | 5200            | MCS0  | 2.74   | ≤11.00 | dBm/MHz    | PASS    |
| 11AC20SISO | Ant1    | 5240            | MCS0  | 3.13   | ≤11.00 | dBm/MHz    | PASS    |
| 11AC20SISO | Ant1    | 5745            | MCS0  | 1.75   | ≤30.00 | dBm/500KHz | PASS    |
| 11AC20SISO | Ant1    | 5785            | MCS0  | 2.09   | ≤30.00 | dBm/500KHz | PASS    |
| 11AC20SISO | Ant1    | 5825            | MCS0  | 1.86   | ≤30.00 | dBm/500KHz | PASS    |
| 11AC40SISO | Ant1    | 5190            | MCS0  | -0.07  | ≤11.00 | dBm/MHz    | PASS    |
| 11AC40SISO | Ant1    | 5230            | MCS0  | -0.32  | ≤11.00 | dBm/MHz    | PASS    |
| 11AC40SISO | Ant1    | 5755            | MCS0  | -0.49  | ≤30.00 | dBm/500KHz | PASS    |
| 11AC40SISO | Ant1    | 5795            | MCS0  | -0.85  | ≤30.00 | dBm/500KHz | PASS    |
| 11AC80SISO | Ant1    | 5210            | MCS0  | -3.92  | ≤11.00 | dBm/MHz    | PASS    |
| 11AC80SISO | Ant1    | 5775            | MCS0  | -3.46  | ≤30.00 | dBm/500KHz | PASS    |
| 11A        | Ant2    | 5180            | 6Mbps | 2.55   | ≤11.00 | dBm/MHz    | PASS    |
| 11A        | Ant2    | 5200            | 6Mbps | 2.17   | ≤11.00 | dBm/MHz    | PASS    |
| 11A        | Ant2    | 5240            | 6Mbps | 3.06   | ≤11.00 | dBm/MHz    | PASS    |
| 11A        | Ant2    | 5745            | 6Mbps | 0.57   | ≤30.00 | dBm/500KHz | PASS    |
| 11A        | Ant2    | 5785            | 6Mbps | 1.94   | ≤30.00 | dBm/500KHz | PASS    |
| 11A        | Ant2    | 5825            | 6Mbps | 1.87   | ≤30.00 | dBm/500KHz | PASS    |
| 11N20SISO  | Ant2    | 5180            | MCS0  | 1.61   | ≤11.00 | dBm/MHz    | PASS    |
| 11N20SISO  | Ant2    | 5200            | MCS0  | 1.17   | ≤11.00 | dBm/MHz    | PASS    |
| 11N20SISO  | Ant2    | 5240            | MCS0  | 2.65   | ≤11.00 | dBm/MHz    | PASS    |
| 11N20SISO  | Ant2    | 5745            | MCS0  | 0.74   | ≤30.00 | dBm/500KHz | PASS    |

|            |       |      |      |       |        |            |      |
|------------|-------|------|------|-------|--------|------------|------|
| 11N20SISO  | Ant2  | 5785 | MCS0 | 1.75  | ≤30.00 | dBm/500KHz | PASS |
| 11N20SISO  | Ant2  | 5825 | MCS0 | 1.57  | ≤30.00 | dBm/500KHz | PASS |
| 11N40SISO  | Ant2  | 5190 | MCS0 | -0.94 | ≤11.00 | dBm/MHz    | PASS |
| 11N40SISO  | Ant2  | 5230 | MCS0 | -0.9  | ≤11.00 | dBm/MHz    | PASS |
| 11N40SISO  | Ant2  | 5755 | MCS0 | -2.1  | ≤30.00 | dBm/500KHz | PASS |
| 11N40SISO  | Ant2  | 5795 | MCS0 | -1.24 | ≤30.00 | dBm/500KHz | PASS |
| 11AC20SISO | Ant2  | 5180 | MCS0 | 1.77  | ≤11.00 | dBm/MHz    | PASS |
| 11AC20SISO | Ant2  | 5200 | MCS0 | 1.6   | ≤11.00 | dBm/MHz    | PASS |
| 11AC20SISO | Ant2  | 5240 | MCS0 | 2.49  | ≤11.00 | dBm/MHz    | PASS |
| 11AC20SISO | Ant2  | 5745 | MCS0 | 0.46  | ≤30.00 | dBm/500KHz | PASS |
| 11AC20SISO | Ant2  | 5785 | MCS0 | 1.67  | ≤30.00 | dBm/500KHz | PASS |
| 11AC20SISO | Ant2  | 5825 | MCS0 | 1.86  | ≤30.00 | dBm/500KHz | PASS |
| 11AC40SISO | Ant2  | 5190 | MCS0 | -0.93 | ≤11.00 | dBm/MHz    | PASS |
| 11AC40SISO | Ant2  | 5230 | MCS0 | -0.54 | ≤11.00 | dBm/MHz    | PASS |
| 11AC40SISO | Ant2  | 5755 | MCS0 | -2.44 | ≤30.00 | dBm/500KHz | PASS |
| 11AC40SISO | Ant2  | 5795 | MCS0 | -1.09 | ≤30.00 | dBm/500KHz | PASS |
| 11AC80SISO | Ant2  | 5210 | MCS0 | -4.81 | ≤11.00 | dBm/MHz    | PASS |
| 11AC80SISO | Ant2  | 5775 | MCS0 | -4.5  | ≤30.00 | dBm/500KHz | PASS |
| 11N20MIMO  | Ant1  | 5180 | MCS0 | 2.49  | ≤11.00 | dBm/MHz    | PASS |
| 11N20MIMO  | Ant2  | 5180 | MCS0 | 1.51  | ≤11.00 | dBm/MHz    | PASS |
| 11N20MIMO  | total | 5180 | MCS0 | 5.04  | ≤11.00 | dBm/MHz    | PASS |
| 11N20MIMO  | Ant1  | 5200 | MCS0 | 2.45  | ≤11.00 | dBm/MHz    | PASS |
| 11N20MIMO  | Ant2  | 5200 | MCS0 | 1.72  | ≤11.00 | dBm/MHz    | PASS |
| 11N20MIMO  | total | 5200 | MCS0 | 5.11  | ≤11.00 | dBm/MHz    | PASS |
| 11N20MIMO  | Ant1  | 5240 | MCS0 | 2.55  | ≤11.00 | dBm/MHz    | PASS |
| 11N20MIMO  | Ant2  | 5240 | MCS0 | 2.16  | ≤11.00 | dBm/MHz    | PASS |
| 11N20MIMO  | total | 5240 | MCS0 | 5.37  | ≤11.00 | dBm/MHz    | PASS |
| 11N20MIMO  | Ant1  | 5745 | MCS0 | 0.66  | ≤30.00 | dBm/500KHz | PASS |
| 11N20MIMO  | Ant2  | 5745 | MCS0 | -0.08 | ≤30.00 | dBm/500KHz | PASS |
| 11N20MIMO  | total | 5745 | MCS0 | 3.32  | ≤30.00 | dBm/500KHz | PASS |
| 11N20MIMO  | Ant1  | 5785 | MCS0 | 1.91  | ≤30.00 | dBm/500KHz | PASS |
| 11N20MIMO  | Ant2  | 5785 | MCS0 | 1.38  | ≤30.00 | dBm/500KHz | PASS |
| 11N20MIMO  | total | 5785 | MCS0 | 4.66  | ≤30.00 | dBm/500KHz | PASS |
| 11N20MIMO  | Ant1  | 5825 | MCS0 | 1.45  | ≤30.00 | dBm/500KHz | PASS |
| 11N20MIMO  | Ant2  | 5825 | MCS0 | 1.29  | ≤30.00 | dBm/500KHz | PASS |
| 11N20MIMO  | total | 5825 | MCS0 | 4.38  | ≤30.00 | dBm/500KHz | PASS |
| 11N40MIMO  | Ant1  | 5190 | MCS0 | -0.34 | ≤11.00 | dBm/MHz    | PASS |
| 11N40MIMO  | Ant2  | 5190 | MCS0 | -1.25 | ≤11.00 | dBm/MHz    | PASS |
| 11N40MIMO  | total | 5190 | MCS0 | 2.24  | ≤11.00 | dBm/MHz    | PASS |
| 11N40MIMO  | Ant1  | 5230 | MCS0 | -0.38 | ≤11.00 | dBm/MHz    | PASS |
| 11N40MIMO  | Ant2  | 5230 | MCS0 | -1.21 | ≤11.00 | dBm/MHz    | PASS |
| 11N40MIMO  | total | 5230 | MCS0 | 2.24  | ≤11.00 | dBm/MHz    | PASS |
| 11N40MIMO  | Ant1  | 5755 | MCS0 | -1.14 | ≤30.00 | dBm/500KHz | PASS |
| 11N40MIMO  | Ant2  | 5755 | MCS0 | -1.96 | ≤30.00 | dBm/500KHz | PASS |

|            |       |      |      |       |        |            |      |
|------------|-------|------|------|-------|--------|------------|------|
| 11N40MIMO  | total | 5755 | MCS0 | 1.48  | ≤30.00 | dBm/500KHz | PASS |
| 11N40MIMO  | Ant1  | 5795 | MCS0 | -0.98 | ≤30.00 | dBm/500KHz | PASS |
| 11N40MIMO  | Ant2  | 5795 | MCS0 | -1.84 | ≤30.00 | dBm/500KHz | PASS |
| 11N40MIMO  | total | 5795 | MCS0 | 1.62  | ≤30.00 | dBm/500KHz | PASS |
| 11AC20MIMO | Ant1  | 5180 | MCS0 | 2.86  | ≤11.00 | dBm/MHz    | PASS |
| 11AC20MIMO | Ant2  | 5180 | MCS0 | 1.35  | ≤11.00 | dBm/MHz    | PASS |
| 11AC20MIMO | total | 5180 | MCS0 | 5.18  | ≤11.00 | dBm/MHz    | PASS |
| 11AC20MIMO | Ant1  | 5200 | MCS0 | 2.22  | ≤11.00 | dBm/MHz    | PASS |
| 11AC20MIMO | Ant2  | 5200 | MCS0 | 1.71  | ≤11.00 | dBm/MHz    | PASS |
| 11AC20MIMO | total | 5200 | MCS0 | 4.98  | ≤11.00 | dBm/MHz    | PASS |
| 11AC20MIMO | Ant1  | 5240 | MCS0 | 2.9   | ≤11.00 | dBm/MHz    | PASS |
| 11AC20MIMO | Ant2  | 5240 | MCS0 | 2.61  | ≤11.00 | dBm/MHz    | PASS |
| 11AC20MIMO | total | 5240 | MCS0 | 5.77  | ≤11.00 | dBm/MHz    | PASS |
| 11AC20MIMO | Ant1  | 5745 | MCS0 | 1.59  | ≤30.00 | dBm/500KHz | PASS |
| 11AC20MIMO | Ant2  | 5745 | MCS0 | 0.25  | ≤30.00 | dBm/500KHz | PASS |
| 11AC20MIMO | total | 5745 | MCS0 | 3.98  | ≤30.00 | dBm/500KHz | PASS |
| 11AC20MIMO | Ant1  | 5785 | MCS0 | 1.7   | ≤30.00 | dBm/500KHz | PASS |
| 11AC20MIMO | Ant2  | 5785 | MCS0 | 1.26  | ≤30.00 | dBm/500KHz | PASS |
| 11AC20MIMO | total | 5785 | MCS0 | 4.50  | ≤30.00 | dBm/500KHz | PASS |
| 11AC20MIMO | Ant1  | 5825 | MCS0 | 1.62  | ≤30.00 | dBm/500KHz | PASS |
| 11AC20MIMO | Ant2  | 5825 | MCS0 | 1.62  | ≤30.00 | dBm/500KHz | PASS |
| 11AC20MIMO | total | 5825 | MCS0 | 4.63  | ≤30.00 | dBm/500KHz | PASS |
| 11AC40MIMO | Ant1  | 5190 | MCS0 | -0.28 | ≤11.00 | dBm/MHz    | PASS |
| 11AC40MIMO | Ant2  | 5190 | MCS0 | -1.53 | ≤11.00 | dBm/MHz    | PASS |
| 11AC40MIMO | total | 5190 | MCS0 | 2.15  | ≤11.00 | dBm/MHz    | PASS |
| 11AC40MIMO | Ant1  | 5230 | MCS0 | -0.9  | ≤11.00 | dBm/MHz    | PASS |
| 11AC40MIMO | Ant2  | 5230 | MCS0 | -1.22 | ≤11.00 | dBm/MHz    | PASS |
| 11AC40MIMO | total | 5230 | MCS0 | 1.95  | ≤11.00 | dBm/MHz    | PASS |
| 11AC40MIMO | Ant1  | 5755 | MCS0 | -0.95 | ≤30.00 | dBm/500KHz | PASS |
| 11AC40MIMO | Ant2  | 5755 | MCS0 | -2.1  | ≤30.00 | dBm/500KHz | PASS |
| 11AC40MIMO | total | 5755 | MCS0 | 1.52  | ≤30.00 | dBm/500KHz | PASS |
| 11AC40MIMO | Ant1  | 5795 | MCS0 | -0.58 | ≤30.00 | dBm/500KHz | PASS |
| 11AC40MIMO | Ant2  | 5795 | MCS0 | -1.85 | ≤30.00 | dBm/500KHz | PASS |
| 11AC40MIMO | total | 5795 | MCS0 | 1.84  | ≤30.00 | dBm/500KHz | PASS |
| 11AC80MIMO | Ant1  | 5210 | MCS0 | -3.75 | ≤11.00 | dBm/MHz    | PASS |
| 11AC80MIMO | Ant2  | 5210 | MCS0 | -4.5  | ≤11.00 | dBm/MHz    | PASS |
| 11AC80MIMO | total | 5210 | MCS0 | -1.10 | ≤11.00 | dBm/MHz    | PASS |
| 11AC80MIMO | Ant1  | 5775 | MCS0 | -3.72 | ≤30.00 | dBm/500KHz | PASS |
| 11AC80MIMO | Ant2  | 5775 | MCS0 | -4.14 | ≤30.00 | dBm/500KHz | PASS |
| 11AC80MIMO | total | 5775 | MCS0 | -0.91 | ≤30.00 | dBm/500KHz | 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 have been compensated in the Test Result using the formula below:

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Result=PSD+10log(1/x), PSD is measured value in dBm/MHz, and x is Duty Cycle in %.

PSD(dBm/500kHz)=PSD(dBm/300kHz)+10log(500kHz/300kHz).

3.The result processing method of multiple antennas is the same as Maximum conducted output power.

4.Part 15.407 explains that the maximum power spectral density limit remains unchanged when the antenna gain is less than 6dBi, and the final limit is obtained by subtracting the greater part from the maximum power spectral density when the antenna gain is greater than 6dBi.

**UNII-Band I:** transmit signals are completely correlated,

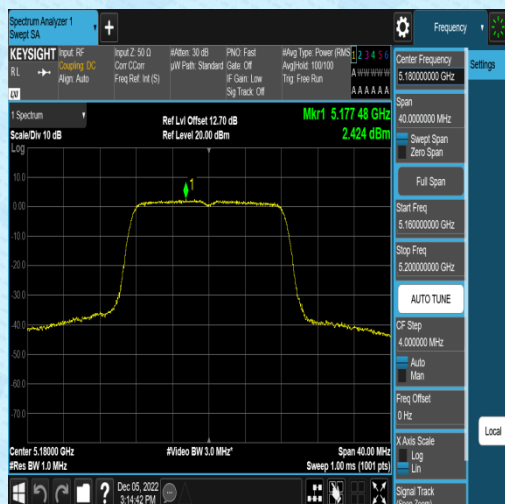
Directional gain= Gant + 10 log (N ant) dB=5.54dBi

**UNII-Band III:** transmit signals are completely correlated,

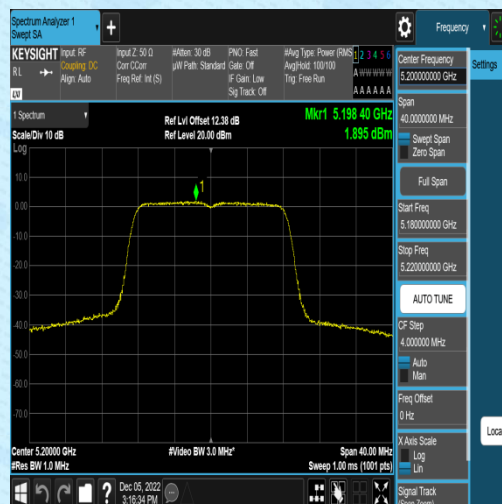
Directional gain= Gant + 10 log (N ant) dB=5.17dBi

## Test Graphs

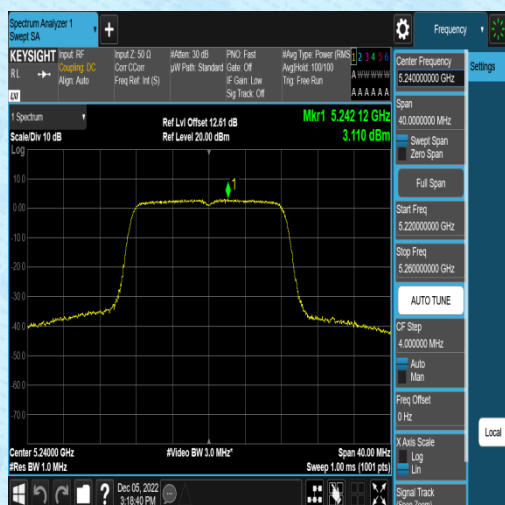
11A-Ant1-5180



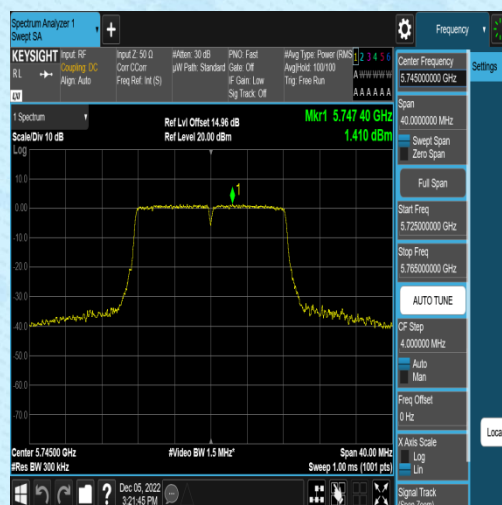
11A-Ant1-5200



11A-Ant1-5240



11A-Ant1-5745



11A-Ant1-5785

11A-Ant1-5825

