



NTNV-11AC80MIMO-Ant1-5210



NTNV-11AC80MIMO-Ant2-5210



NTNV-11AC80MIMO-Ant1-5775



NTNV-11AC80MIMO-Ant2-5775

## AppendixC: Maximum conducted output power

### Test Result

| Test Mode  | Antenna | Frequency [MHz] | Rate | Channel Power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|-----------------|------|---------------------|----------------|-----------------|--------------|-------------|---------|
| 11AC20SISO | Ant1    | 5180            | MCS0 | 14.44               | 100.00         | 0.00            | 14.44        | ≤23.98      | PASS    |
| 11AC20SISO | Ant2    | 5180            | MCS0 | 14.89               | 100.00         | 0.00            | 14.89        | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5200            | MCS0 | 14.41               | 100.00         | 0.00            | 14.41        | ≤23.98      | PASS    |
| 11AC20SISO | Ant2    | 5200            | MCS0 | 15.80               | 100.00         | 0.00            | 15.80        | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5240            | MCS0 | 14.80               | 100.00         | 0.00            | 14.80        | ≤23.98      | PASS    |
| 11AC20SISO | Ant2    | 5240            | MCS0 | 15.77               | 100.00         | 0.00            | 15.77        | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5745            | MCS0 | 15.29               | 100.00         | 0.00            | 15.29        | ≤30.00      | PASS    |
| 11AC20SISO | Ant2    | 5745            | MCS0 | 16.11               | 100.00         | 0.00            | 16.11        | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5765            | MCS0 | 15.80               | 100.00         | 0.00            | 15.80        | ≤30.00      | PASS    |
| 11AC20SISO | Ant2    | 5765            | MCS0 | 16.17               | 100.00         | 0.00            | 16.17        | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5785            | MCS0 | 16.35               | 100.00         | 0.00            | 16.35        | ≤30.00      | PASS    |
| 11AC20SISO | Ant2    | 5785            | MCS0 | 16.17               | 100.00         | 0.00            | 16.17        | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5805            | MCS0 | 16.07               | 100.00         | 0.00            | 16.07        | ≤30.00      | PASS    |
| 11AC20SISO | Ant2    | 5805            | MCS0 | 16.33               | 100.00         | 0.00            | 16.33        | ≤30.00      | PASS    |
| 11AC40SISO | Ant1    | 5190            | MCS0 | 15.35               | 100.00         | 0.00            | 15.35        | ≤23.98      | PASS    |
| 11AC40SISO | Ant2    | 5190            | MCS0 | 14.66               | 100.00         | 0.00            | 14.66        | ≤23.98      | PASS    |
| 11AC40SISO | Ant1    | 5230            | MCS0 | 15.45               | 100.00         | 0.00            | 15.45        | ≤23.98      | PASS    |
| 11AC40SISO | Ant2    | 5230            | MCS0 | 15.38               | 100.00         | 0.00            | 15.38        | ≤23.98      | PASS    |
| 11AC40SISO | Ant1    | 5755            | MCS0 | 15.52               | 100.00         | 0.00            | 15.52        | ≤30.00      | PASS    |
| 11AC40SISO | Ant2    | 5755            | MCS0 | 15.95               | 100.00         | 0.00            | 15.95        | ≤30.00      | PASS    |
| 11AC40SISO | Ant1    | 5795            | MCS0 | 15.97               | 100.00         | 0.00            | 15.97        | ≤30.00      | PASS    |
| 11AC40SISO | Ant2    | 5795            | MCS0 | 16.27               | 100.00         | 0.00            | 16.27        | ≤30.00      | PASS    |
| 11AC80SISO | Ant1    | 5210            | MCS0 | 15.17               | 100.00         | 0.00            | 15.17        | ≤23.98      | PASS    |
| 11AC80SISO | Ant2    | 5210            | MCS0 | 14.84               | 100.00         | 0.00            | 14.84        | ≤23.98      | PASS    |
| 11AC80SISO | Ant1    | 5775            | MCS0 | 15.79               | 100.00         | 0.00            | 15.79        | ≤30.00      | PASS    |
| 11AC80SISO | Ant2    | 5775            | MCS0 | 15.96               | 100.00         | 0.00            | 15.96        | ≤30.00      | PASS    |
| 11AC20MIMO | Ant1    | 5180            | MCS0 | 10.54               | 100.00         | 0.00            | 10.54        | ≤23.98      | PASS    |
| 11AC20MIMO | Ant2    | 5180            | MCS0 | 9.33                | 100.00         | 0.00            | 9.33         | ≤23.98      | PASS    |
| 11AC20MIMO | total   | 5180            | MCS0 | ---                 | ---            | ---             | 12.99        | ≤23.98      | PASS    |
| 11AC20MIMO | Ant1    | 5200            | MCS0 | 10.11               | 100.00         | 0.00            | 10.11        | ≤23.98      | PASS    |
| 11AC20MIMO | Ant2    | 5200            | MCS0 | 9.93                | 100.00         | 0.00            | 9.93         | ≤23.98      | PASS    |
| 11AC20MIMO | total   | 5200            | MCS0 | ---                 | ---            | ---             | 13.03        | ≤23.98      | PASS    |
| 11AC20MIMO | Ant1    | 5240            | MCS0 | 10.44               | 100.00         | 0.00            | 10.44        | ≤23.98      | PASS    |
| 11AC20MIMO | Ant2    | 5240            | MCS0 | 9.90                | 100.00         | 0.00            | 9.90         | ≤23.98      | PASS    |
| 11AC20MIMO | total   | 5240            | MCS0 | ---                 | ---            | ---             | 13.19        | ≤23.98      | PASS    |
| 11AC20MIMO | Ant1    | 5745            | MCS0 | 9.86                | 100.00         | 0.00            | 9.86         | ≤30.00      | PASS    |
| 11AC20MIMO | Ant2    | 5745            | MCS0 | 10.79               | 100.00         | 0.00            | 10.79        | ≤30.00      | PASS    |
| 11AC20MIMO | total   | 5745            | MCS0 | ---                 | ---            | ---             | 13.36        | ≤30.00      | PASS    |

|            |       |      |      |       |        |      |       |        |      |
|------------|-------|------|------|-------|--------|------|-------|--------|------|
| 11AC20MIMO | Ant1  | 5765 | MCS0 | 10.13 | 100.00 | 0.00 | 10.13 | ≤30.00 | PASS |
| 11AC20MIMO | Ant2  | 5765 | MCS0 | 10.43 | 100.00 | 0.00 | 10.43 | ≤30.00 | PASS |
| 11AC20MIMO | total | 5765 | MCS0 | ---   | ---    | ---  | 13.29 | ≤30.00 | PASS |
| 11AC20MIMO | Ant1  | 5785 | MCS0 | 10.25 | 100.00 | 0.00 | 10.25 | ≤30.00 | PASS |
| 11AC20MIMO | Ant2  | 5785 | MCS0 | 10.82 | 100.00 | 0.00 | 10.82 | ≤30.00 | PASS |
| 11AC20MIMO | total | 5785 | MCS0 | ---   | ---    | ---  | 13.55 | ≤30.00 | PASS |
| 11AC20MIMO | Ant1  | 5805 | MCS0 | 9.38  | 100.00 | 0.00 | 9.38  | ≤30.00 | PASS |
| 11AC20MIMO | Ant2  | 5805 | MCS0 | 10.54 | 100.00 | 0.00 | 10.54 | ≤30.00 | PASS |
| 11AC20MIMO | total | 5805 | MCS0 | ---   | ---    | ---  | 13.01 | ≤30.00 | PASS |
| 11AC40MIMO | Ant1  | 5190 | MCS0 | 9.14  | 100.00 | 0.00 | 9.14  | ≤23.98 | PASS |
| 11AC40MIMO | Ant2  | 5190 | MCS0 | 8.56  | 100.00 | 0.00 | 8.56  | ≤23.98 | PASS |
| 11AC40MIMO | total | 5190 | MCS0 | ---   | ---    | ---  | 11.87 | ≤23.98 | PASS |
| 11AC40MIMO | Ant1  | 5230 | MCS0 | 9.23  | 100.00 | 0.00 | 9.23  | ≤23.98 | PASS |
| 11AC40MIMO | Ant2  | 5230 | MCS0 | 9.39  | 100.00 | 0.00 | 9.39  | ≤23.98 | PASS |
| 11AC40MIMO | total | 5230 | MCS0 | ---   | ---    | ---  | 12.32 | ≤23.98 | PASS |
| 11AC40MIMO | Ant1  | 5755 | MCS0 | 9.62  | 100.00 | 0.00 | 9.62  | ≤30.00 | PASS |
| 11AC40MIMO | Ant2  | 5755 | MCS0 | 10.25 | 100.00 | 0.00 | 10.25 | ≤30.00 | PASS |
| 11AC40MIMO | total | 5755 | MCS0 | ---   | ---    | ---  | 12.96 | ≤30.00 | PASS |
| 11AC40MIMO | Ant1  | 5795 | MCS0 | 9.73  | 100.00 | 0.00 | 9.73  | ≤30.00 | PASS |
| 11AC40MIMO | Ant2  | 5795 | MCS0 | 10.62 | 100.00 | 0.00 | 10.62 | ≤30.00 | PASS |
| 11AC40MIMO | total | 5795 | MCS0 | ---   | ---    | ---  | 13.21 | ≤30.00 | PASS |
| 11AC80MIMO | Ant1  | 5210 | MCS0 | 9.62  | 100.00 | 0.00 | 9.62  | ≤23.98 | PASS |
| 11AC80MIMO | Ant2  | 5210 | MCS0 | 9.54  | 100.00 | 0.00 | 9.54  | ≤23.98 | PASS |
| 11AC80MIMO | total | 5210 | MCS0 | ---   | ---    | ---  | 12.59 | ≤23.98 | PASS |
| 11AC80MIMO | Ant1  | 5775 | MCS0 | 9.80  | 100.00 | 0.00 | 9.80  | ≤30.00 | PASS |
| 11AC80MIMO | Ant2  | 5775 | MCS0 | 10.59 | 100.00 | 0.00 | 10.59 | ≤30.00 | PASS |
| 11AC80MIMO | total | 5775 | MCS0 | ---   | ---    | ---  | 13.22 | ≤30.00 | PASS |

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

## AppendixD: Maximum power spectral density

### Test Result

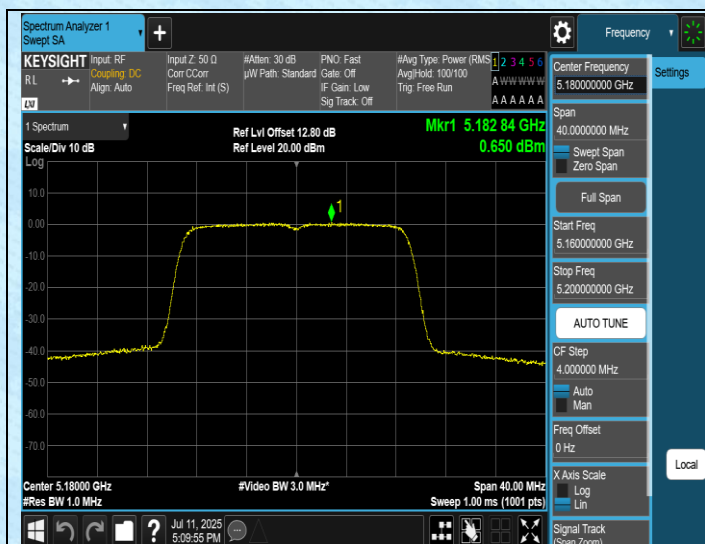
| Test Mode  | Antenna | Frequency[MHz] | Rate | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|------|------------------|----------------|---------|
| 11AC20SISO | Ant1    | 5180           | MCS0 | 0.65             | ≤11.00         | PASS    |
| 11AC20SISO | Ant2    | 5180           | MCS0 | 1.02             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5200           | MCS0 | 0.26             | ≤11.00         | PASS    |
| 11AC20SISO | Ant2    | 5200           | MCS0 | 1.82             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5240           | MCS0 | 0.98             | ≤11.00         | PASS    |
| 11AC20SISO | Ant2    | 5240           | MCS0 | 2.18             | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5745           | MCS0 | -1.19            | ≤30.00         | PASS    |
| 11AC20SISO | Ant2    | 5745           | MCS0 | -0.26            | ≤30.00         | PASS    |
| 11AC20SISO | Ant1    | 5765           | MCS0 | -1.03            | ≤30.00         | PASS    |
| 11AC20SISO | Ant2    | 5765           | MCS0 | -0.54            | ≤30.00         | PASS    |
| 11AC20SISO | Ant1    | 5785           | MCS0 | -0.44            | ≤30.00         | PASS    |
| 11AC20SISO | Ant2    | 5785           | MCS0 | 0.23             | ≤30.00         | PASS    |
| 11AC20SISO | Ant1    | 5805           | MCS0 | -0.54            | ≤30.00         | PASS    |
| 11AC20SISO | Ant2    | 5805           | MCS0 | -0.36            | ≤30.00         | PASS    |
| 11AC40SISO | Ant1    | 5190           | MCS0 | -1.27            | ≤11.00         | PASS    |
| 11AC40SISO | Ant2    | 5190           | MCS0 | -2.7             | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5230           | MCS0 | -1.14            | ≤11.00         | PASS    |
| 11AC40SISO | Ant2    | 5230           | MCS0 | -1.39            | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5755           | MCS0 | -4.04            | ≤30.00         | PASS    |
| 11AC40SISO | Ant2    | 5755           | MCS0 | -3.47            | ≤30.00         | PASS    |
| 11AC40SISO | Ant1    | 5795           | MCS0 | -3.53            | ≤30.00         | PASS    |
| 11AC40SISO | Ant2    | 5795           | MCS0 | -3.06            | ≤30.00         | PASS    |
| 11AC80SISO | Ant1    | 5210           | MCS0 | -5.03            | ≤11.00         | PASS    |
| 11AC80SISO | Ant2    | 5210           | MCS0 | -4.87            | ≤11.00         | PASS    |
| 11AC80SISO | Ant1    | 5775           | MCS0 | -6.41            | ≤30.00         | PASS    |
| 11AC80SISO | Ant2    | 5775           | MCS0 | -6.27            | ≤30.00         | PASS    |
| 11AC20MIMO | Ant1    | 5180           | MCS0 | -1.25            | ≤11.00         | PASS    |
| 11AC20MIMO | Ant2    | 5180           | MCS0 | -4.56            | ≤11.00         | PASS    |
| 11AC20MIMO | total   | 5180           | MCS0 | 0.41             | ≤11.00         | PASS    |
| 11AC20MIMO | Ant1    | 5200           | MCS0 | -3.54            | ≤11.00         | PASS    |
| 11AC20MIMO | Ant2    | 5200           | MCS0 | -3.77            | ≤11.00         | PASS    |
| 11AC20MIMO | total   | 5200           | MCS0 | -0.64            | ≤11.00         | PASS    |
| 11AC20MIMO | Ant1    | 5240           | MCS0 | -3.1             | ≤11.00         | PASS    |
| 11AC20MIMO | Ant2    | 5240           | MCS0 | -3.52            | ≤11.00         | PASS    |
| 11AC20MIMO | total   | 5240           | MCS0 | -0.29            | ≤11.00         | PASS    |
| 11AC20MIMO | Ant1    | 5745           | MCS0 | -5.85            | ≤30.00         | PASS    |
| 11AC20MIMO | Ant2    | 5745           | MCS0 | -4.75            | ≤30.00         | PASS    |
| 11AC20MIMO | total   | 5745           | MCS0 | -2.25            | ≤30.00         | PASS    |
| 11AC20MIMO | Ant1    | 5765           | MCS0 | -6.07            | ≤30.00         | PASS    |
| 11AC20MIMO | Ant2    | 5765           | MCS0 | -5.9             | ≤30.00         | PASS    |

|            |       |      |      |        |        |      |
|------------|-------|------|------|--------|--------|------|
| 11AC20MIMO | total | 5765 | MCS0 | -2.97  | ≤30.00 | PASS |
| 11AC20MIMO | Ant1  | 5785 | MCS0 | -5.88  | ≤30.00 | PASS |
| 11AC20MIMO | Ant2  | 5785 | MCS0 | -5.72  | ≤30.00 | PASS |
| 11AC20MIMO | total | 5785 | MCS0 | -2.79  | ≤30.00 | PASS |
| 11AC20MIMO | Ant1  | 5805 | MCS0 | -6.49  | ≤30.00 | PASS |
| 11AC20MIMO | Ant2  | 5805 | MCS0 | -5.46  | ≤30.00 | PASS |
| 11AC20MIMO | total | 5805 | MCS0 | -2.93  | ≤30.00 | PASS |
| 11AC40MIMO | Ant1  | 5190 | MCS0 | -8.14  | ≤11.00 | PASS |
| 11AC40MIMO | Ant2  | 5190 | MCS0 | -7.75  | ≤11.00 | PASS |
| 11AC40MIMO | total | 5190 | MCS0 | -4.93  | ≤11.00 | PASS |
| 11AC40MIMO | Ant1  | 5230 | MCS0 | -7.2   | ≤11.00 | PASS |
| 11AC40MIMO | Ant2  | 5230 | MCS0 | -7.2   | ≤11.00 | PASS |
| 11AC40MIMO | total | 5230 | MCS0 | -4.19  | ≤11.00 | PASS |
| 11AC40MIMO | Ant1  | 5755 | MCS0 | -9.37  | ≤30.00 | PASS |
| 11AC40MIMO | Ant2  | 5755 | MCS0 | -9.15  | ≤30.00 | PASS |
| 11AC40MIMO | total | 5755 | MCS0 | -6.25  | ≤30.00 | PASS |
| 11AC40MIMO | Ant1  | 5795 | MCS0 | -8.79  | ≤30.00 | PASS |
| 11AC40MIMO | Ant2  | 5795 | MCS0 | -7.98  | ≤30.00 | PASS |
| 11AC40MIMO | total | 5795 | MCS0 | -5.36  | ≤30.00 | PASS |
| 11AC80MIMO | Ant1  | 5210 | MCS0 | -10.12 | ≤11.00 | PASS |
| 11AC80MIMO | Ant2  | 5210 | MCS0 | -9.85  | ≤11.00 | PASS |
| 11AC80MIMO | total | 5210 | MCS0 | -6.97  | ≤11.00 | PASS |
| 11AC80MIMO | Ant1  | 5775 | MCS0 | -12.25 | ≤30.00 | PASS |
| 11AC80MIMO | Ant2  | 5775 | MCS0 | -11.35 | ≤30.00 | PASS |
| 11AC80MIMO | total | 5775 | MCS0 | -8.77  | ≤30.00 | PASS |

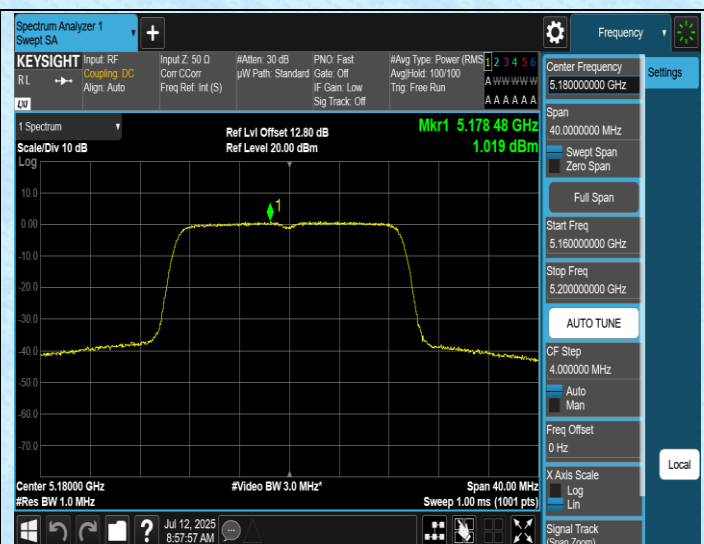
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factorand RBW Factor is compensated in the graph.

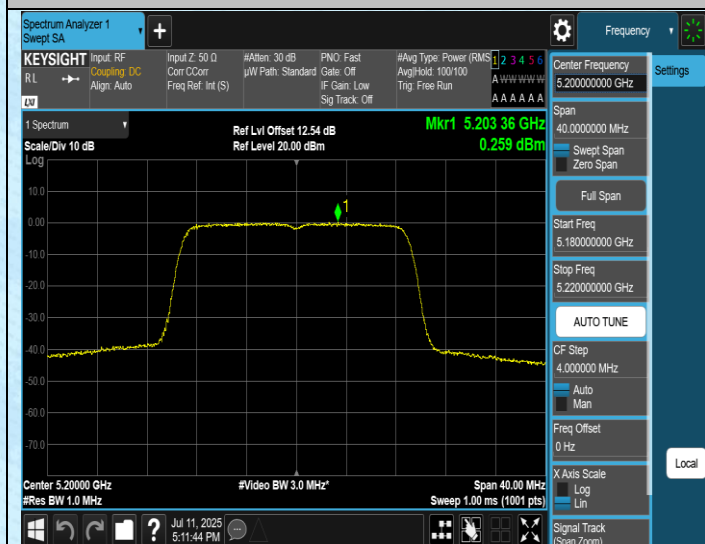
## Test Graphs



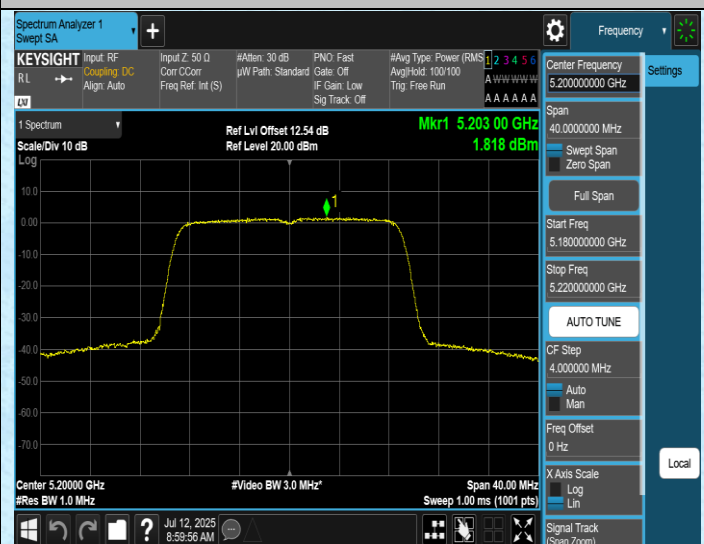
11AC20SISO-Ant1-5180-PASS



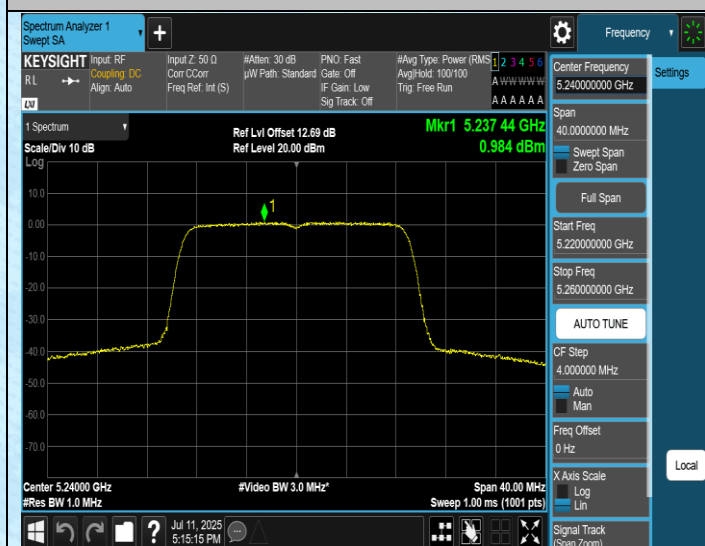
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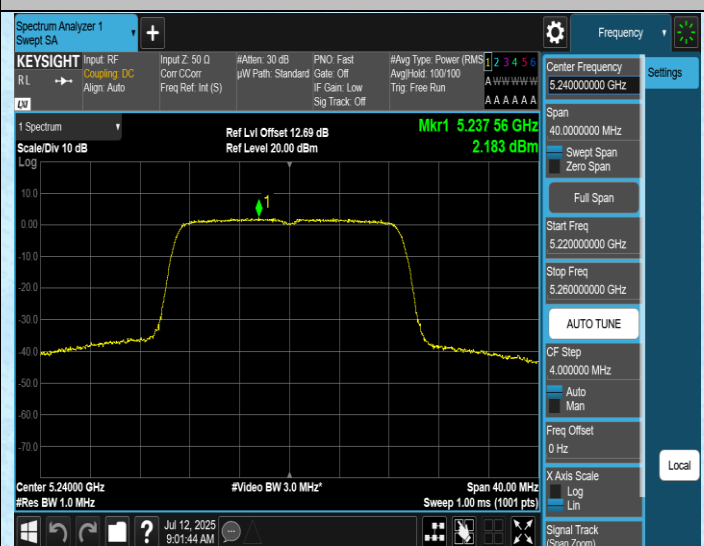
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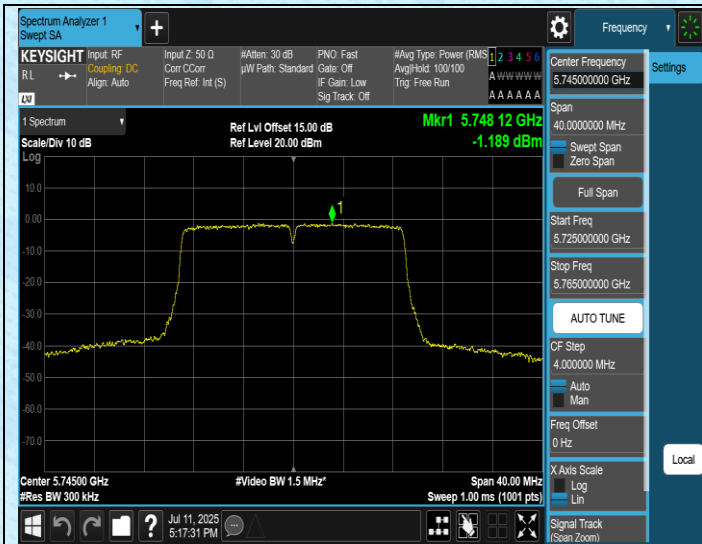
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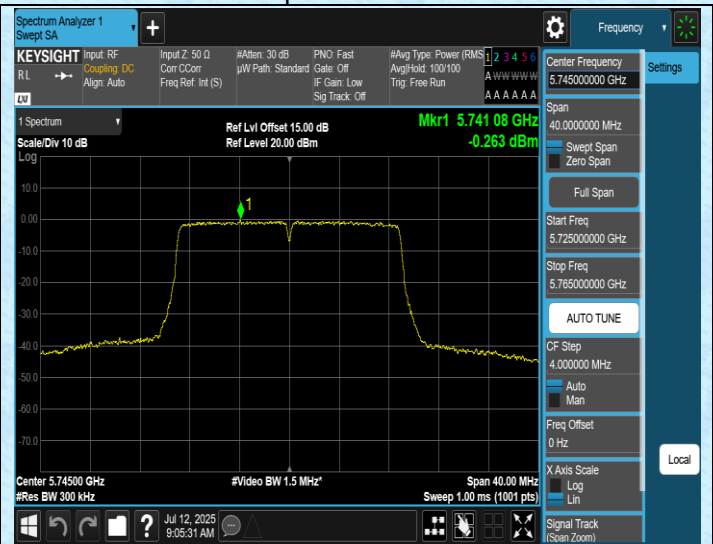
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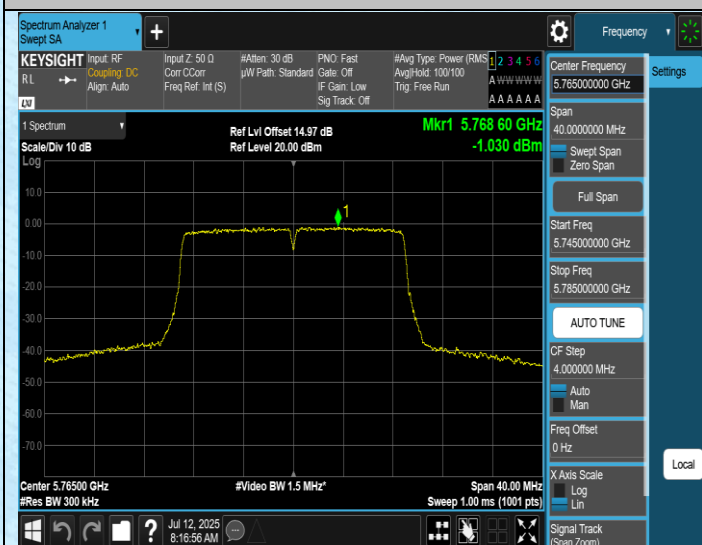
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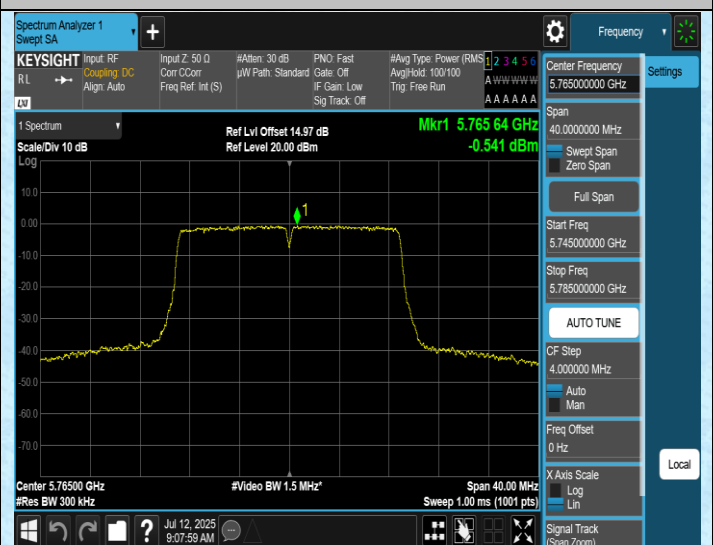
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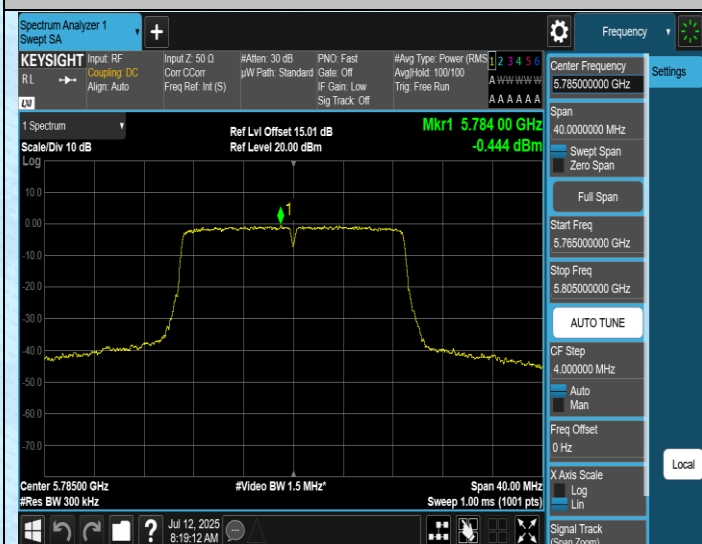
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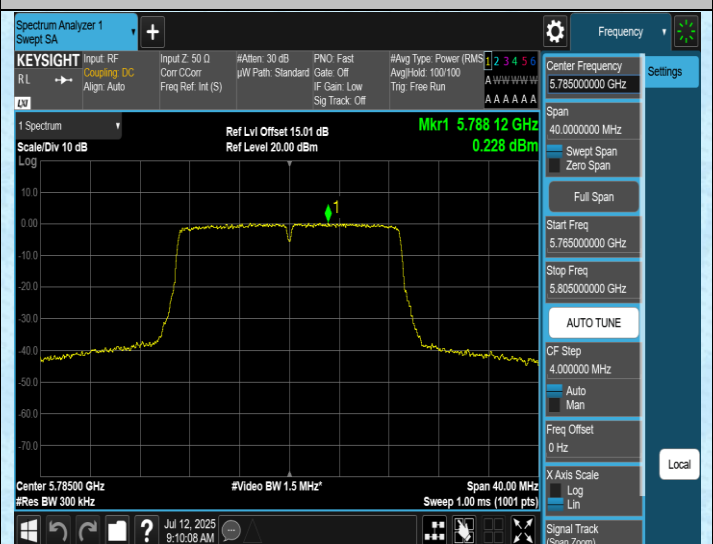
11AC20SISO-Ant1-5765-PASS



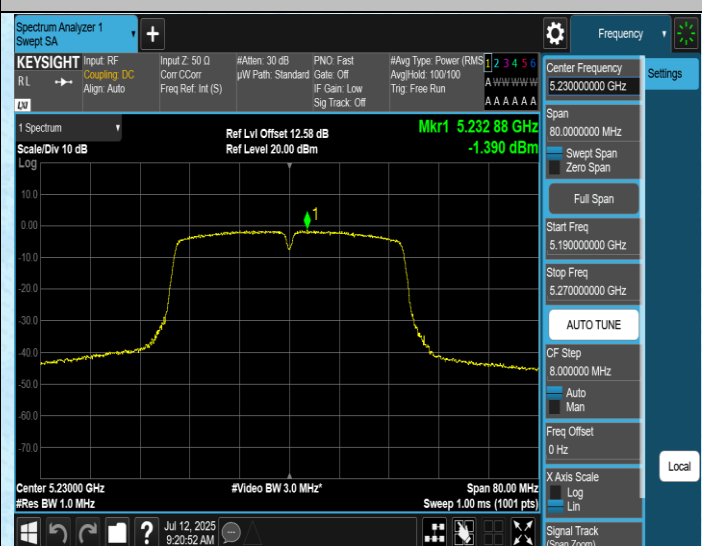
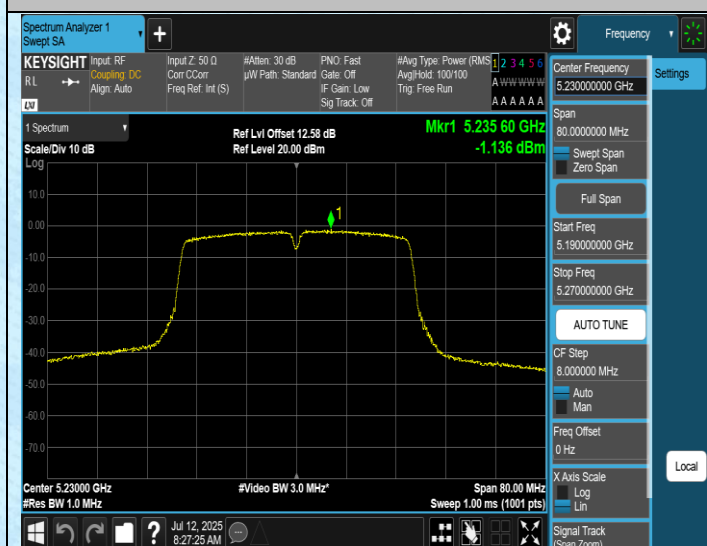
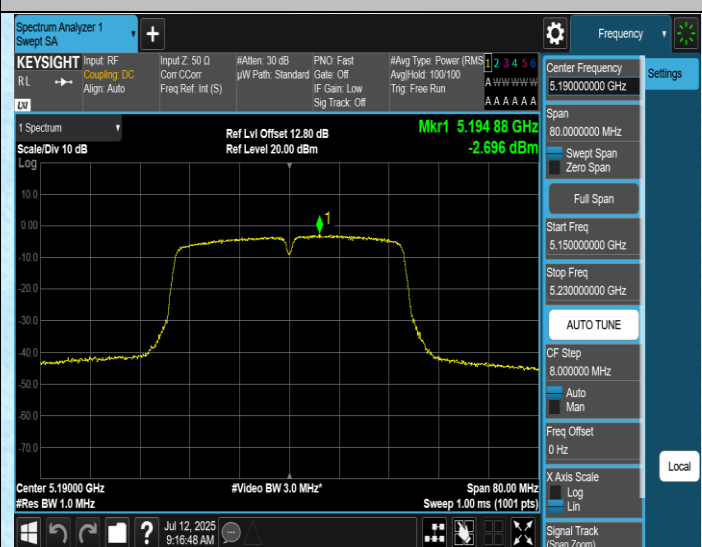
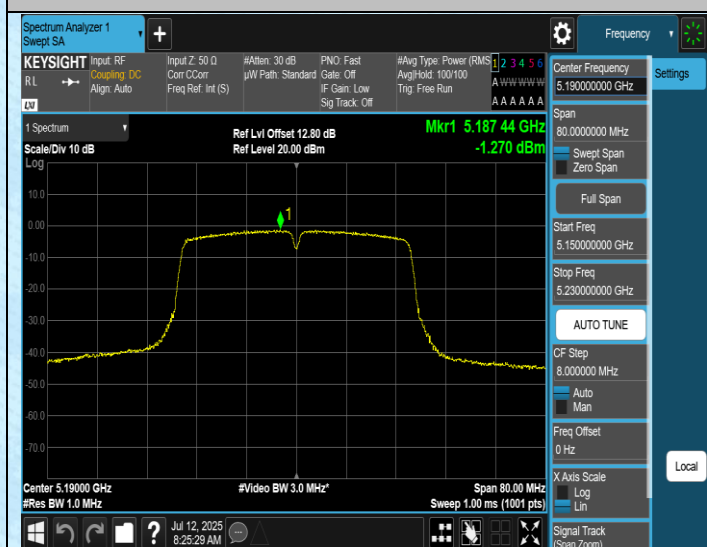
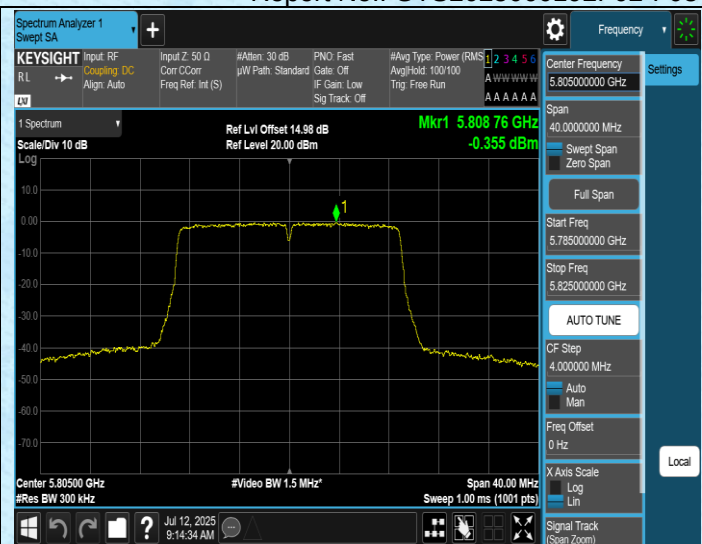
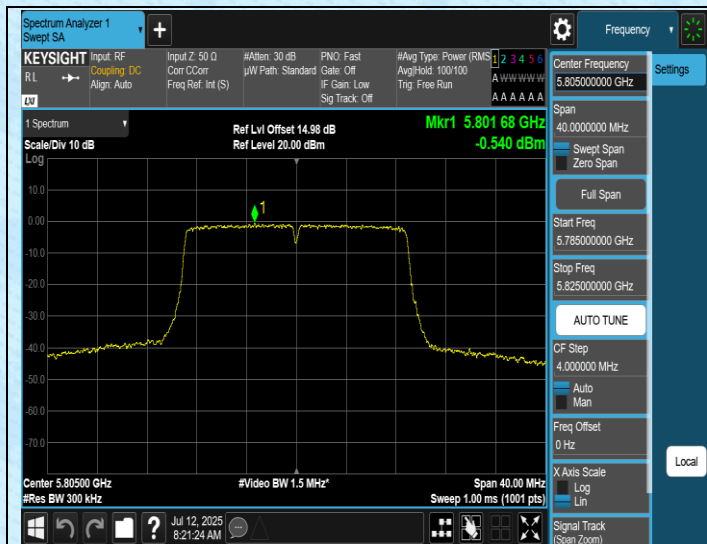
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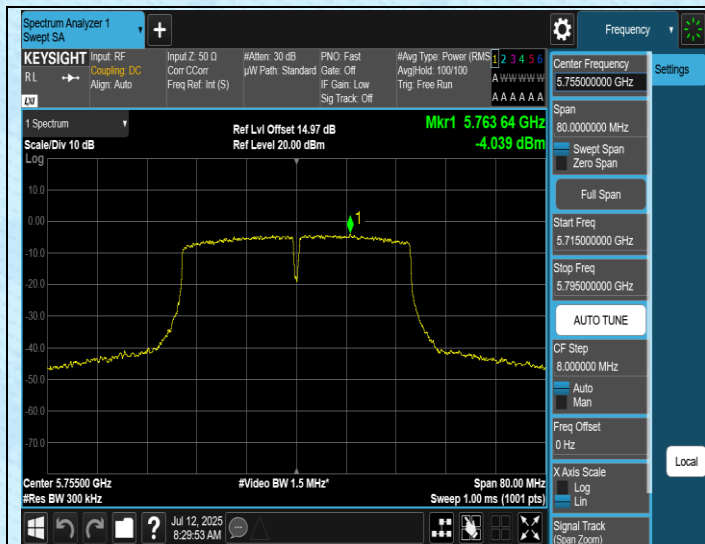


11AC20SISO-Ant1-5785-PASS

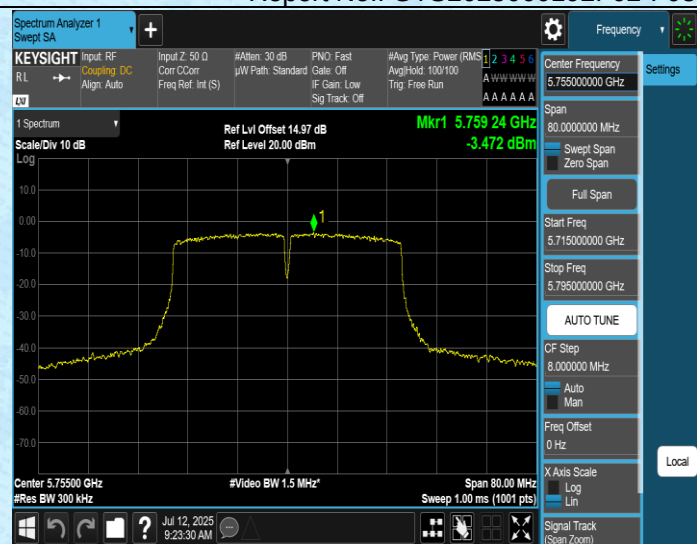


11AC20SISO-Ant2-5785-PASS

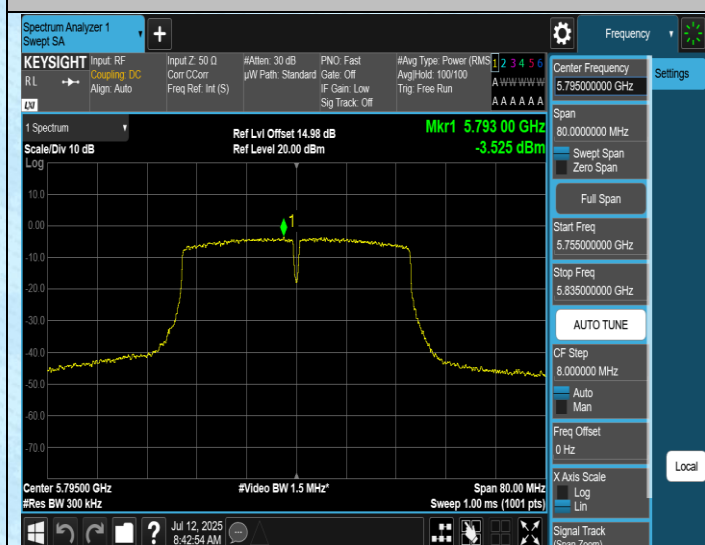




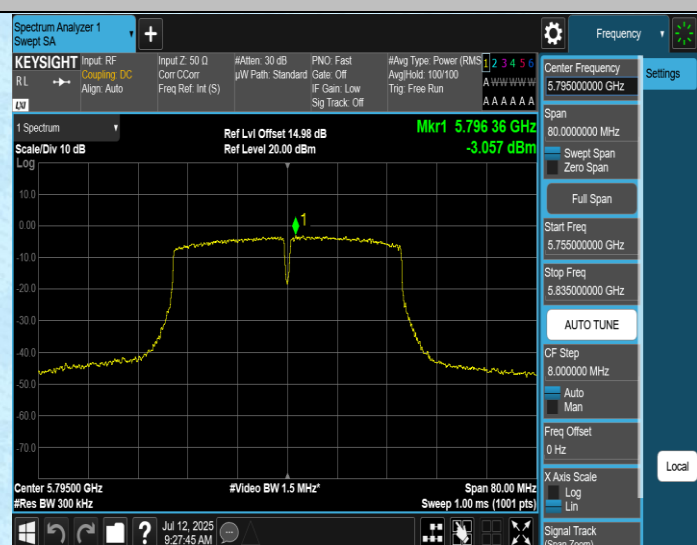
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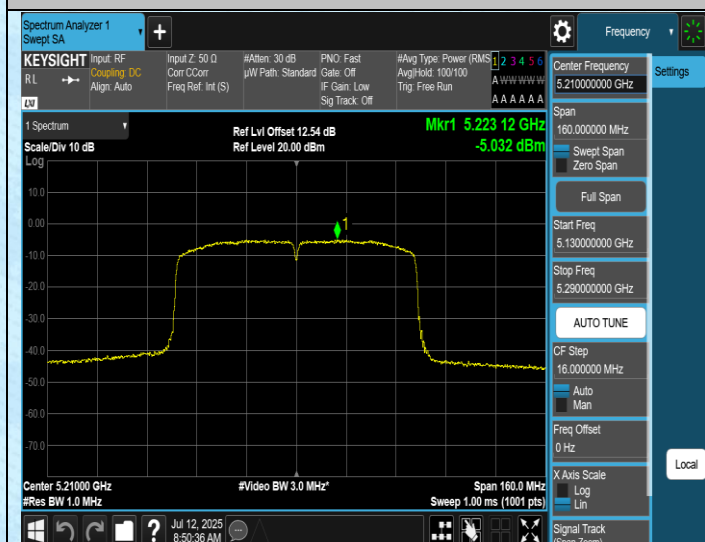
11AC40SISO-Ant2-5755-PASS



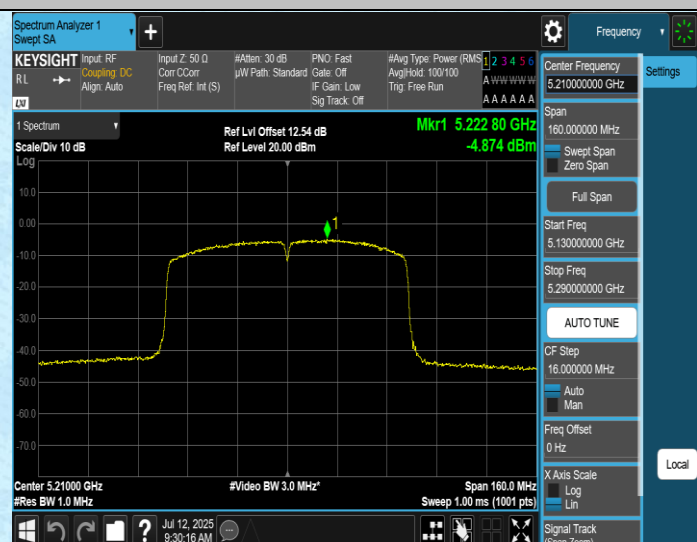
11AC40SISO-Ant1-5795-PASS



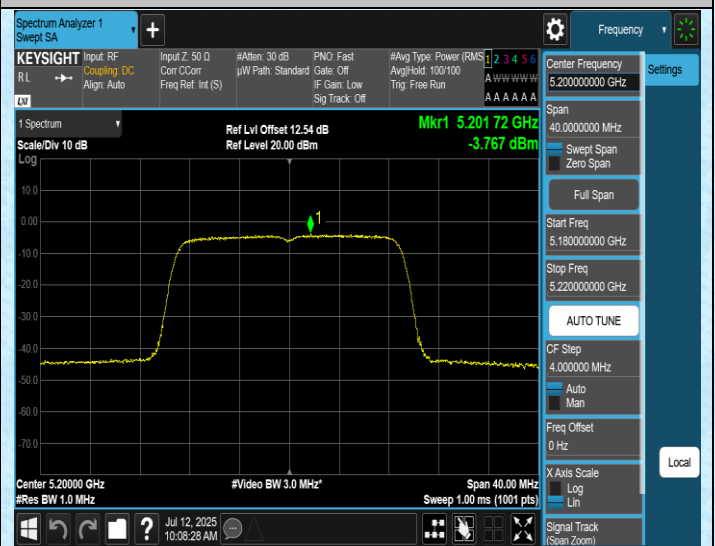
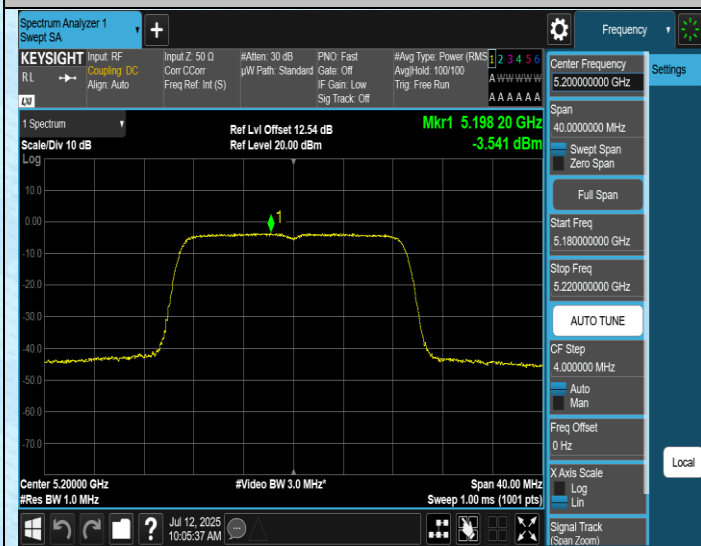
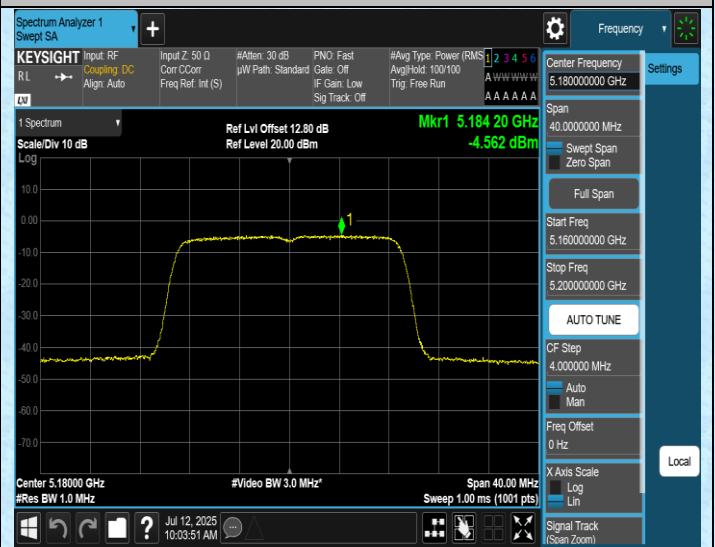
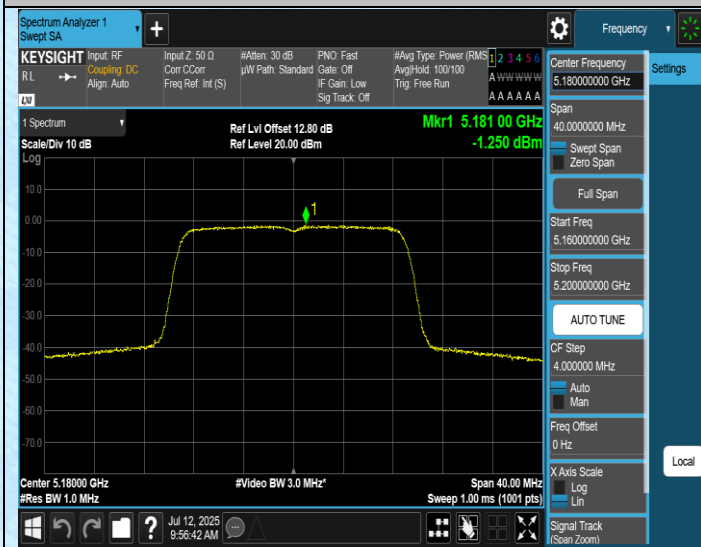
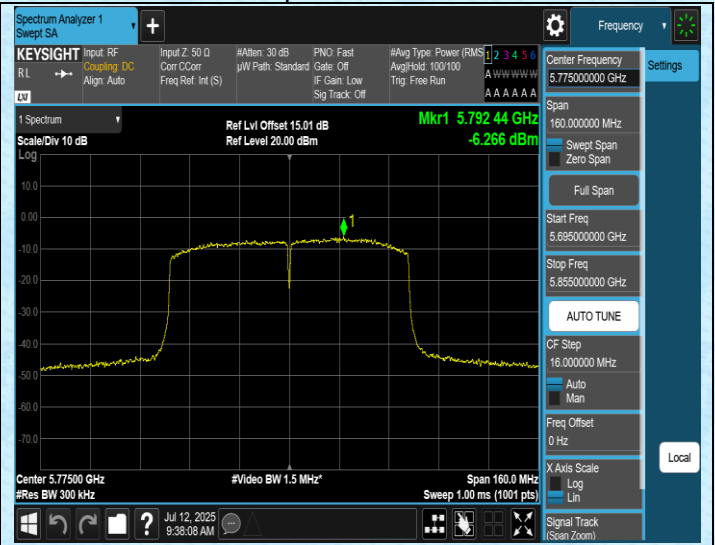
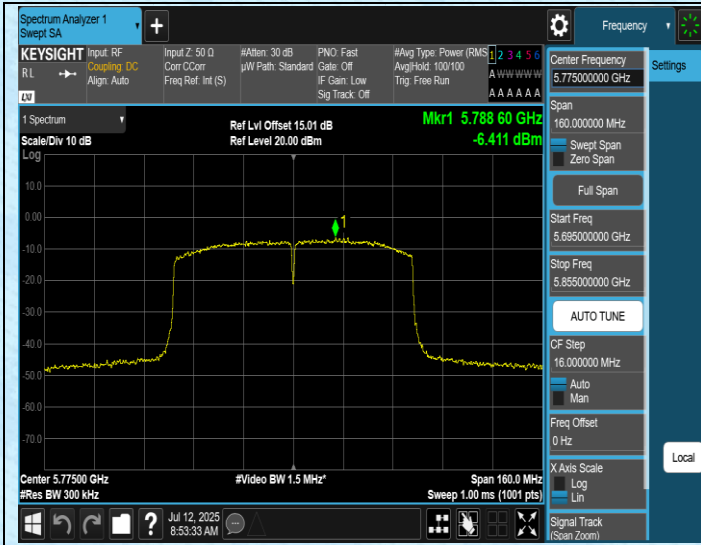
11AC40SISO-Ant2-5795-PASS

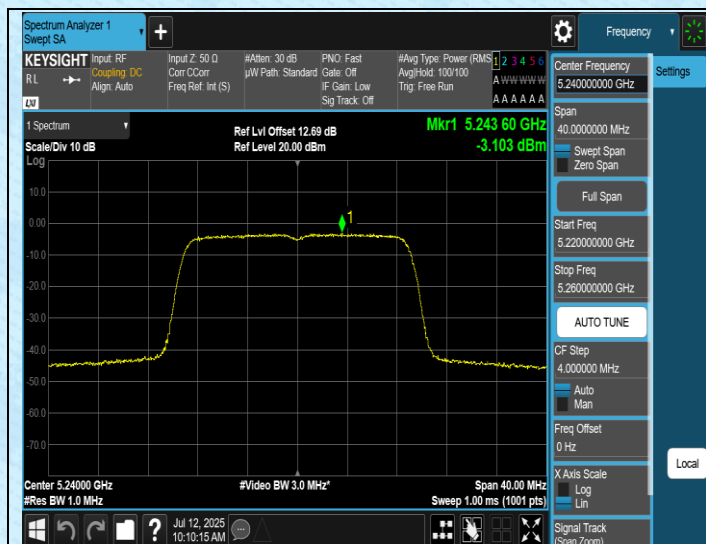


11AC80SISO-Ant1-5210-PASS

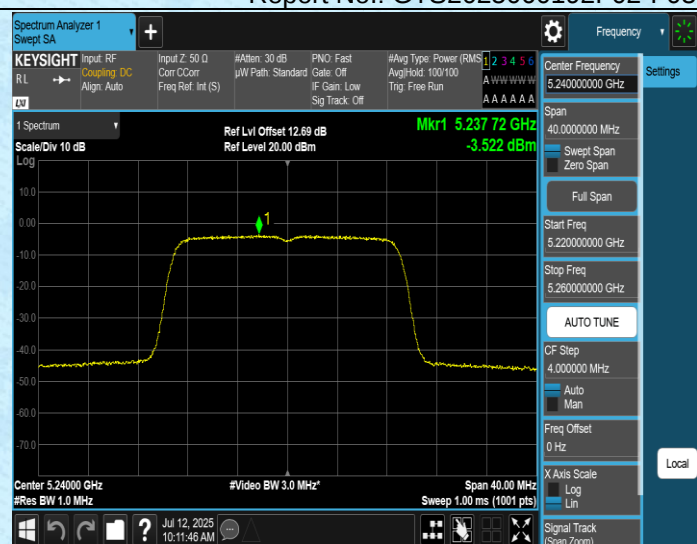


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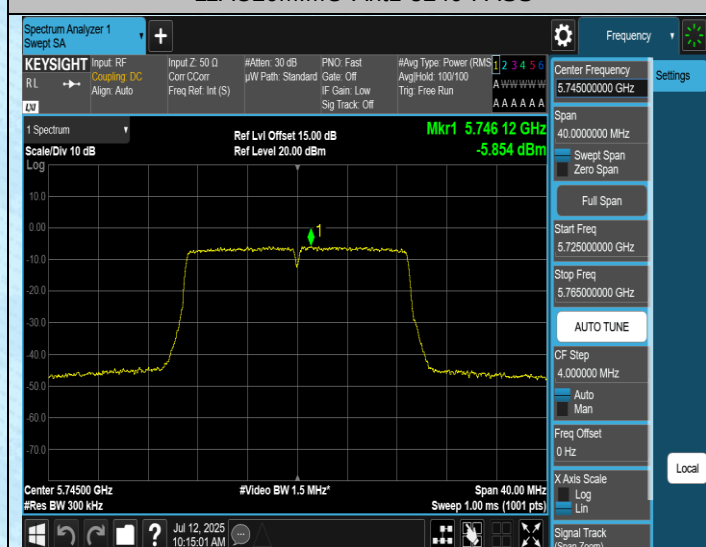




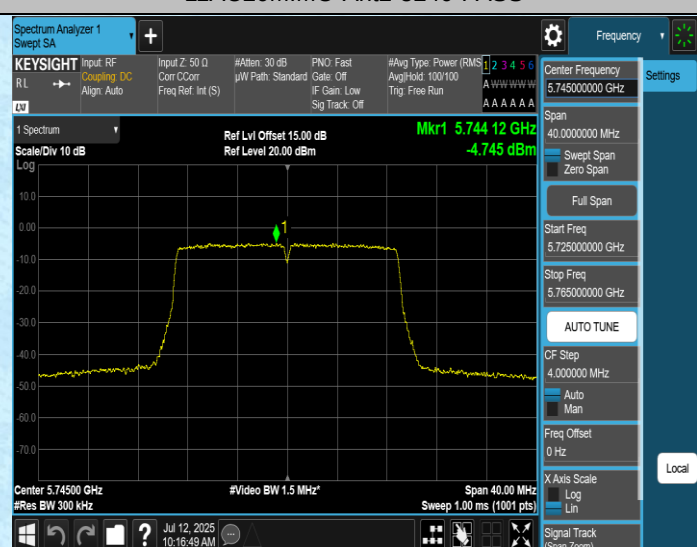
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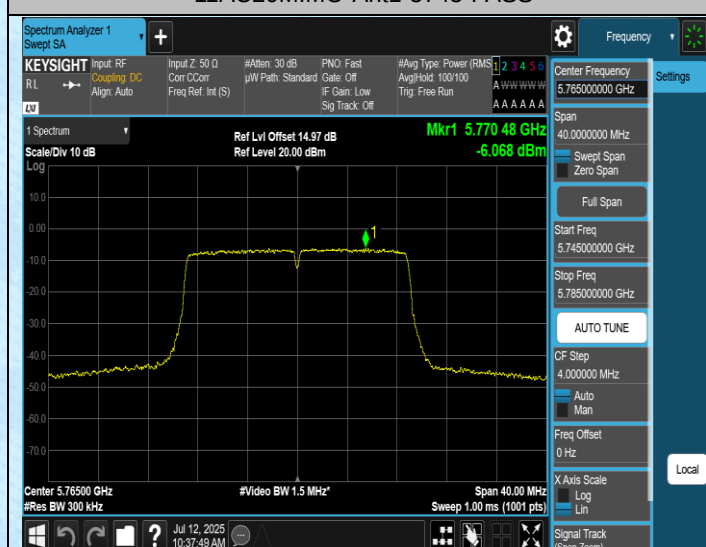
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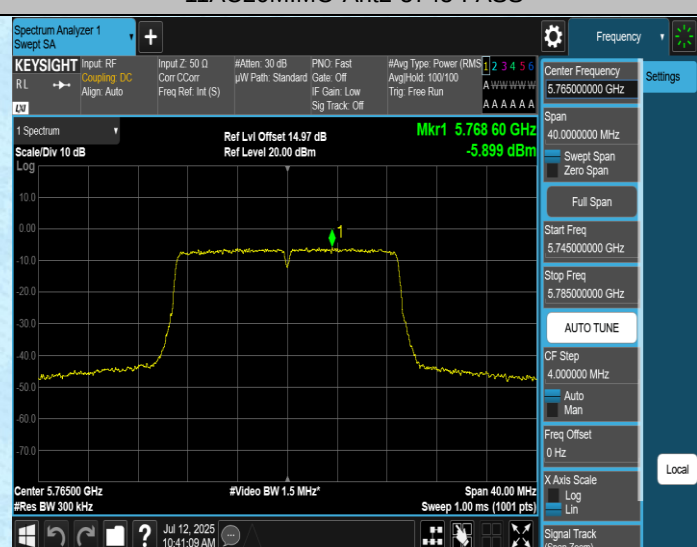
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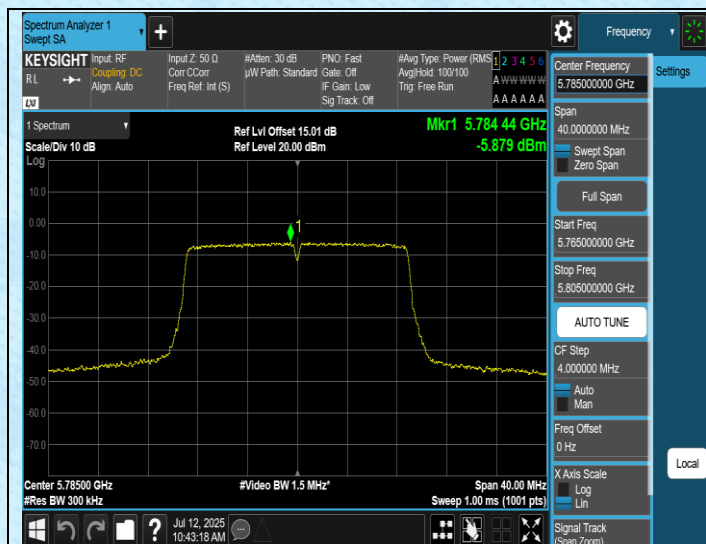
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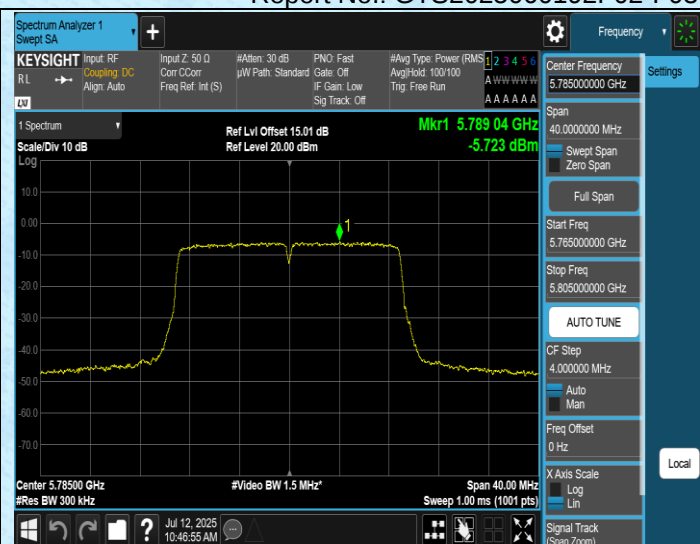
11AC20MIMO-Ant1-5765-PASS



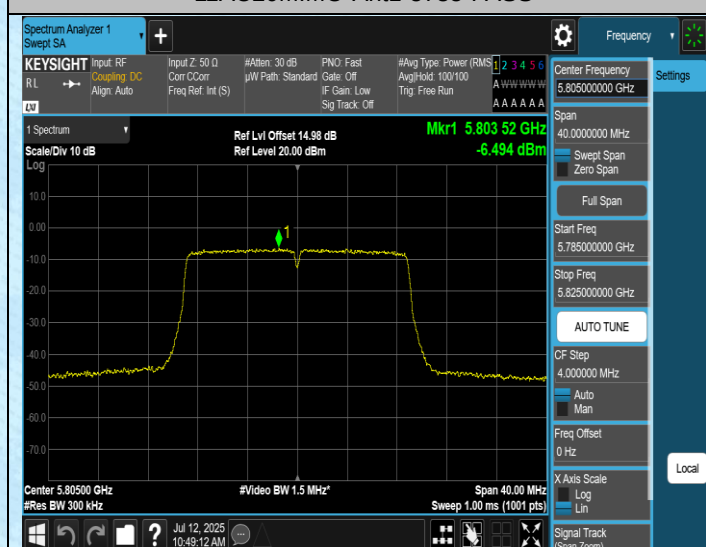
11AC20MIMO-Ant2-5765-PASS



11AC20MIMO-Ant1-5785-PASS



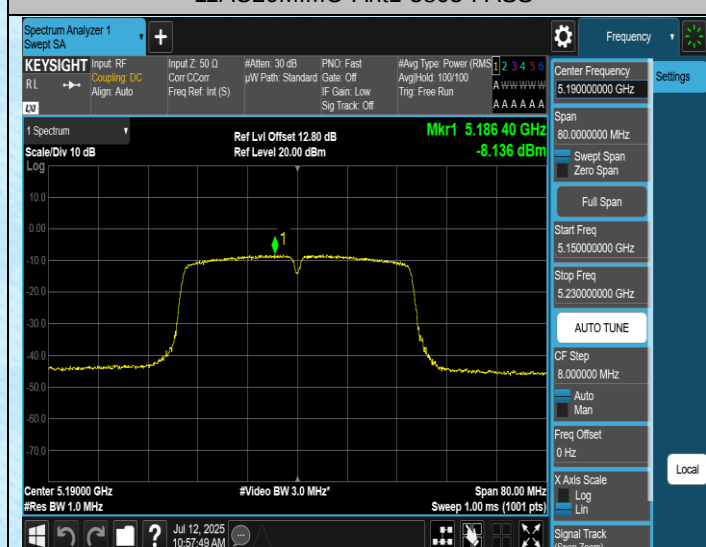
11AC20MIMO-Ant2-5785-PASS



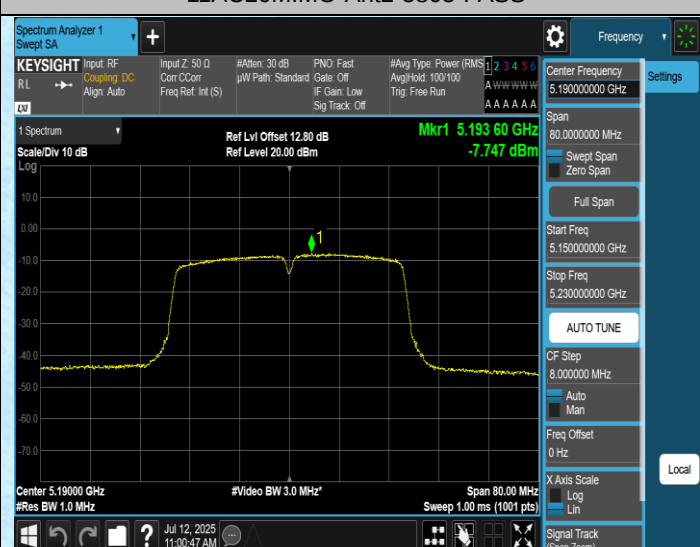
11AC20MIMO-Ant1-5805-PASS



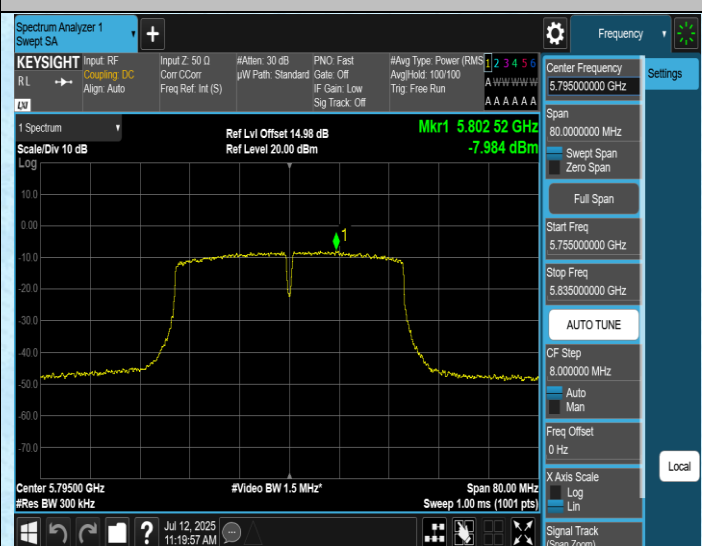
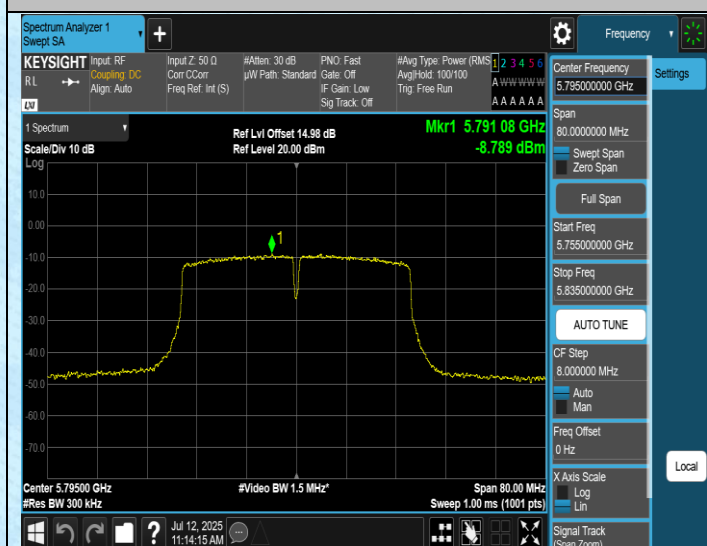
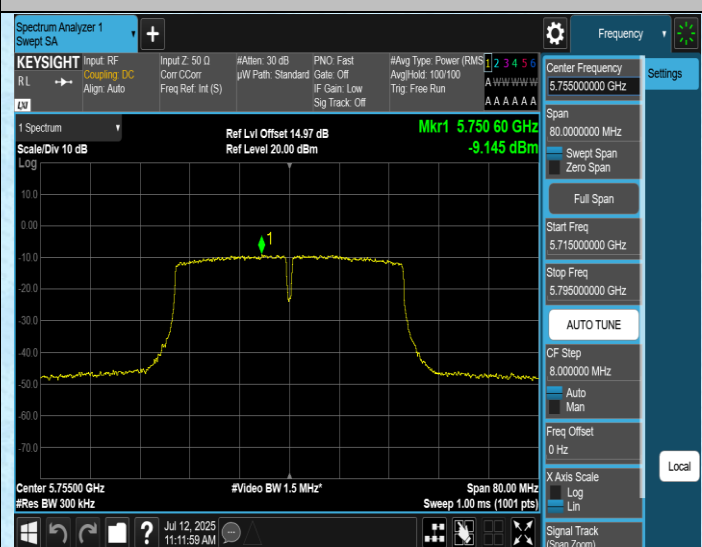
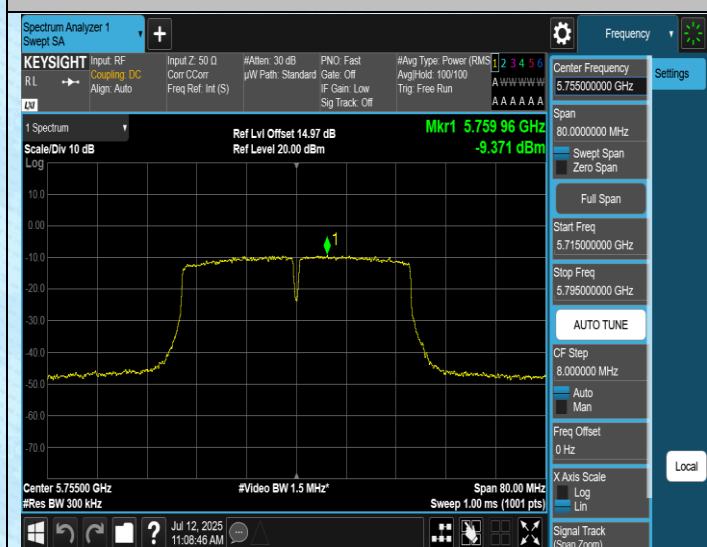
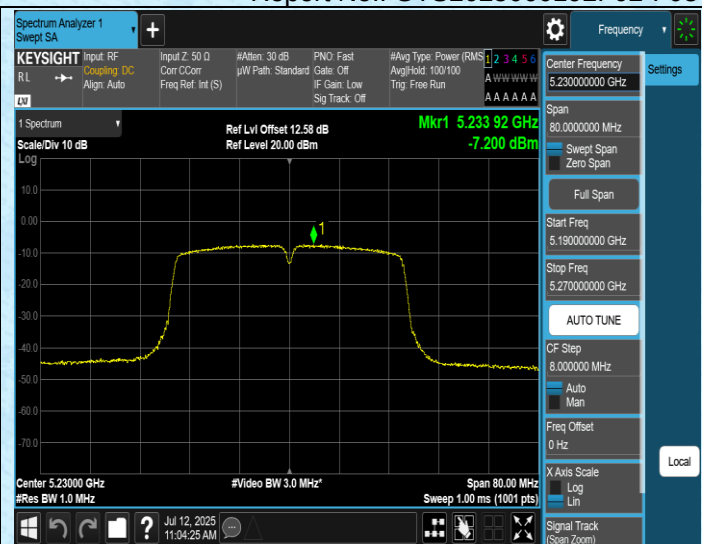
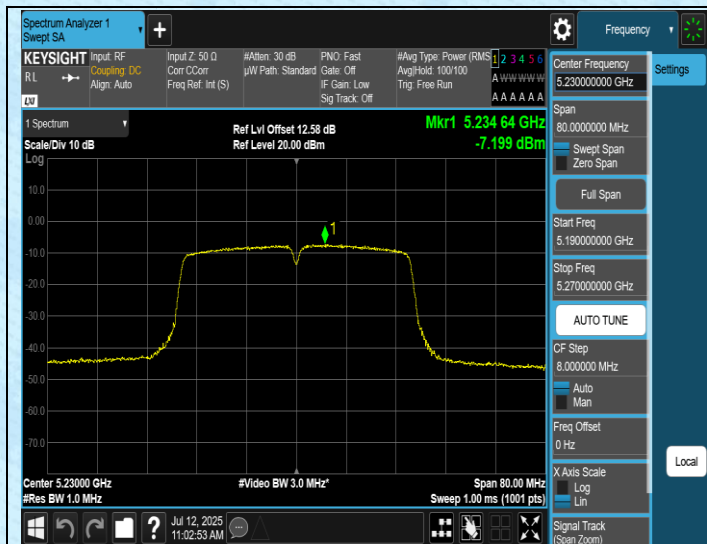
11AC20MIMO-Ant2-5805-PASS

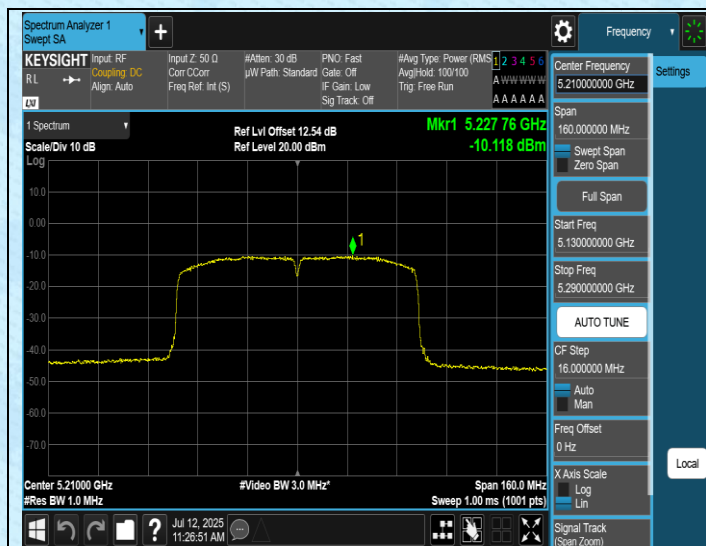


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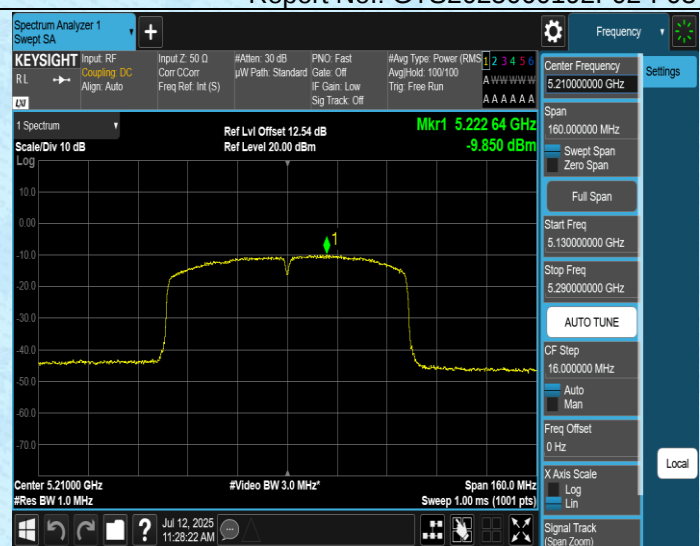


11AC40MIMO-Ant2-5190-PASS

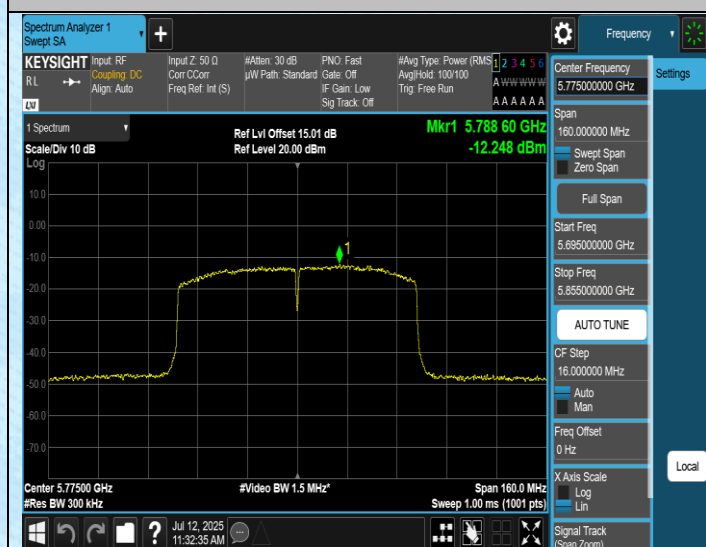




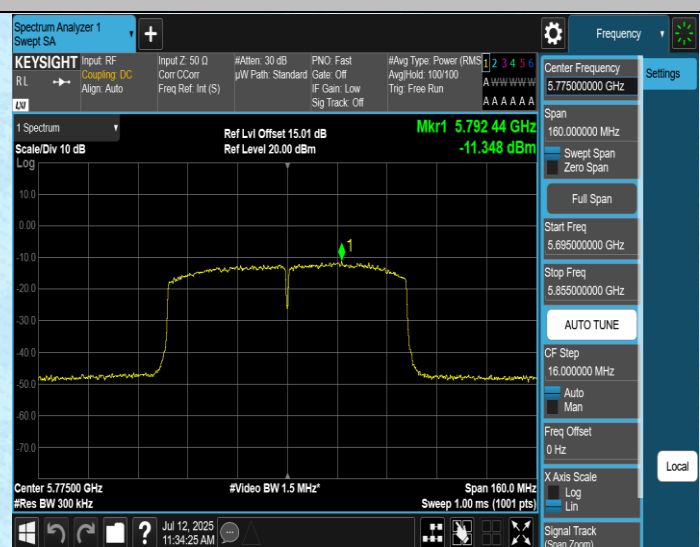
11AC80MIMO-Ant1-5210-PASS



11AC80MIMO-Ant2-5210-PASS



11AC80MIMO-Ant1-5775-PASS



11AC80MIMO-Ant2-5775-PASS

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