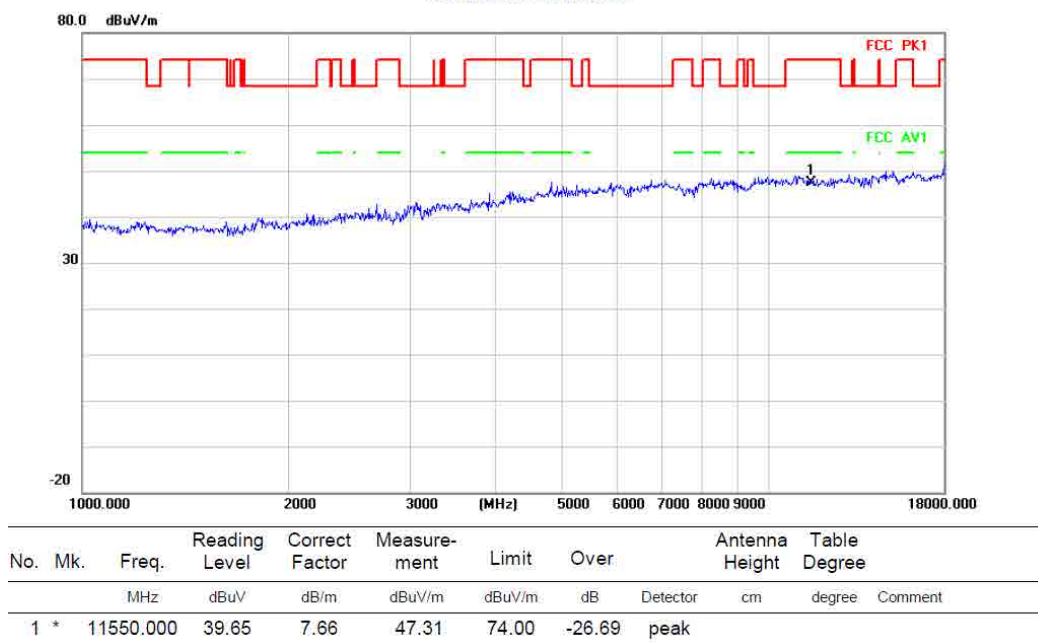
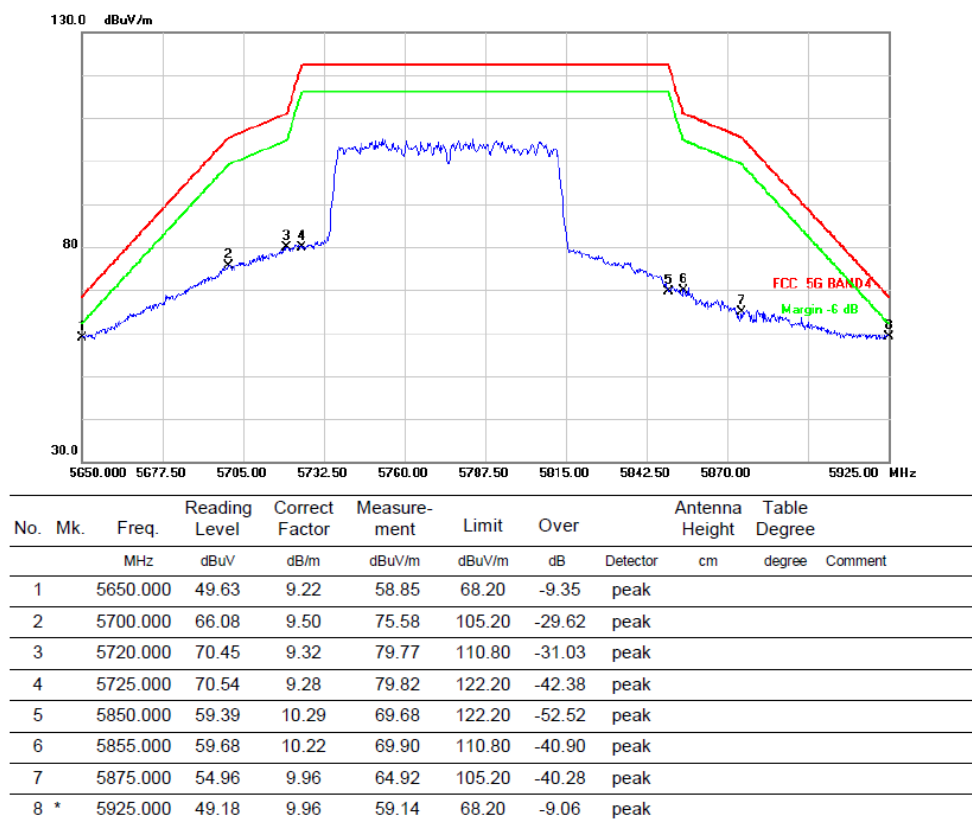


## HORIZONTAL

### Radiated Emission



### Radiated Emission



The high frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit line was not recorded in this report.

### 3.3 Spectrum Bandwidth

#### 3.3.1 Limit

| FCC Part15, Subpart E (15.407) |                 |                 |                       |
|--------------------------------|-----------------|-----------------|-----------------------|
| Section                        | Test Item       | Limit           | Frequency Range (MHz) |
| 15.407(a)<br>15.407(e)         | 26 dB Bandwidth | -               | 5150-5250             |
|                                | 26 dB Bandwidth | -               | 5250-5350             |
|                                | 26 dB Bandwidth | -               | 5470-5725             |
|                                | 26 dB Bandwidth | -               | 5725-5850             |
|                                | 6 dB Bandwidth  | Minimum 500 kHz | 5725-5850             |

#### 3.3.2 Test Procedure

| Test Method                         |                              |
|-------------------------------------|------------------------------|
| ●Conducted Measurement              | ○Radiated Measurement        |
| Test Channels                       |                              |
| ●Lowest, Middle and Highest Channel | ○ Lowest and Highest Channel |
| Environmental conditions            |                              |
| ●Normal                             | ○Normal and Extreme          |
| Note:●:Test    ○:No Test            |                              |

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below.

b) the spectrum analyser is set as follow:

For 26 dB Bandwidth

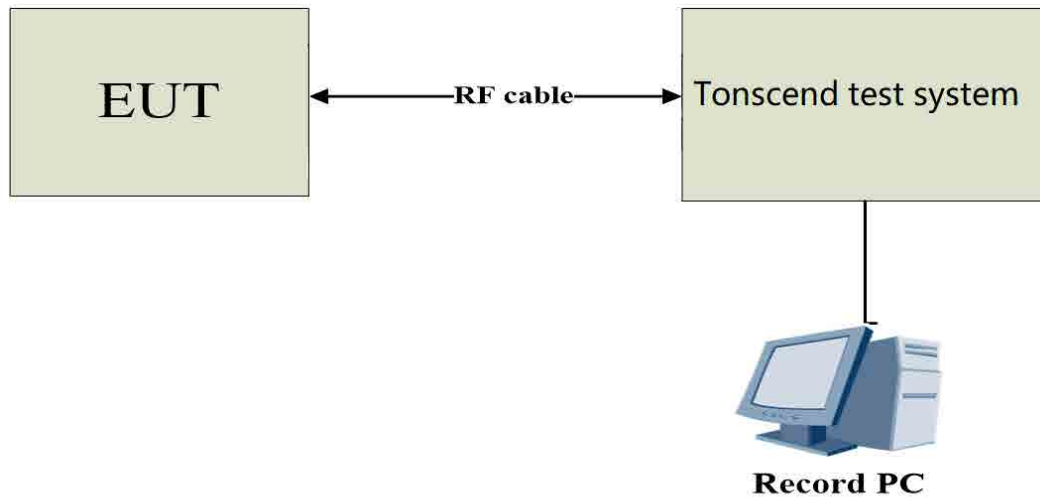
|                  |                                                |
|------------------|------------------------------------------------|
| Centre Frequency | The centre frequency of the channel under test |
| RBW              | ≥1% x Nominal Channel Bandwidth                |
| VBW              | ≥3 x RBW                                       |
| Frequency span   | 2 x Nominal Channel Bandwidth                  |
| Detector Mode    | Peak                                           |
| Trace Mode       | Max Hold                                       |
| Sweep Time       | Auto Couple                                    |

For 6 dB Bandwidth

|                  |                                                |
|------------------|------------------------------------------------|
| Centre Frequency | The centre frequency of the channel under test |
| RBW              | 100 kHz                                        |
| VBW              | 300 kHz                                        |
| Frequency span   | 2 x Nominal Channel Bandwidth                  |
| Detector Mode    | Peak                                           |
| Trace Mode       | Max Hold                                       |
| Sweep Time       | Auto Couple                                    |

- c) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.
- d) Use the -26/-6dB bandwidth function of the spectrum analyser to measure the -26/-6dB Bandwidth of the EUT. This value shall be recorded.
- e) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

### 3.3.3 Test Setup



### 3.3.4 Test Result

#### 26 dB Bandwidth

| TestMode   | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|----------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5180           | 18.320         | 5170.760 | 5189.080 | ---        | ---     |
| 11A        | Ant1    | 5200           | 18.400         | 5190.800 | 5209.200 | ---        | ---     |
| 11A        | Ant1    | 5240           | 18.160         | 5231.000 | 5249.160 | ---        | ---     |
| 11A        | Ant1    | 5745           | 18.480         | 5735.840 | 5754.320 | ---        | ---     |
| 11A        | Ant1    | 5785           | 18.280         | 5775.920 | 5794.200 | ---        | ---     |
| 11A        | Ant1    | 5825           | 18.360         | 5815.880 | 5834.240 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 19.200         | 5170.440 | 5189.640 | ---        | ---     |
| 11N20SISO  | Ant1    | 5200           | 18.960         | 5190.520 | 5209.480 | ---        | ---     |
| 11N20SISO  | Ant1    | 5240           | 19.280         | 5230.400 | 5249.680 | ---        | ---     |
| 11N20SISO  | Ant1    | 5745           | 19.360         | 5735.400 | 5754.760 | ---        | ---     |
| 11N20SISO  | Ant1    | 5785           | 19.320         | 5775.440 | 5794.760 | ---        | ---     |
| 11N20SISO  | Ant1    | 5825           | 19.240         | 5815.400 | 5834.640 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 40.400         | 5169.760 | 5210.160 | ---        | ---     |
| 11N40SISO  | Ant1    | 5230           | 40.240         | 5210.080 | 5250.320 | ---        | ---     |
| 11N40SISO  | Ant1    | 5755           | 40.400         | 5734.840 | 5775.240 | ---        | ---     |
| 11N40SISO  | Ant1    | 5795           | 40.560         | 5774.360 | 5814.920 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180           | 19.360         | 5170.400 | 5189.760 | ---        | ---     |
| 11AC20SISO | Ant1    | 5200           | 19.440         | 5190.320 | 5209.760 | ---        | ---     |
| 11AC20SISO | Ant1    | 5240           | 19.320         | 5230.440 | 5249.760 | ---        | ---     |
| 11AC20SISO | Ant1    | 5745           | 19.480         | 5735.280 | 5754.760 | ---        | ---     |
| 11AC20SISO | Ant1    | 5785           | 19.320         | 5775.400 | 5794.720 | ---        | ---     |
| 11AC20SISO | Ant1    | 5825           | 19.080         | 5815.480 | 5834.560 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190           | 40.320         | 5169.920 | 5210.240 | ---        | ---     |
| 11AC40SISO | Ant1    | 5230           | 40.720         | 5209.520 | 5250.240 | ---        | ---     |
| 11AC40SISO | Ant1    | 5755           | 40.240         | 5735.000 | 5775.240 | ---        | ---     |
| 11AC40SISO | Ant1    | 5795           | 40.240         | 5774.600 | 5814.840 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210           | 80.000         | 5170.160 | 5250.160 | ---        | ---     |
| 11AC80SISO | Ant1    | 5775           | 79.840         | 5735.160 | 5815.000 | ---        | ---     |



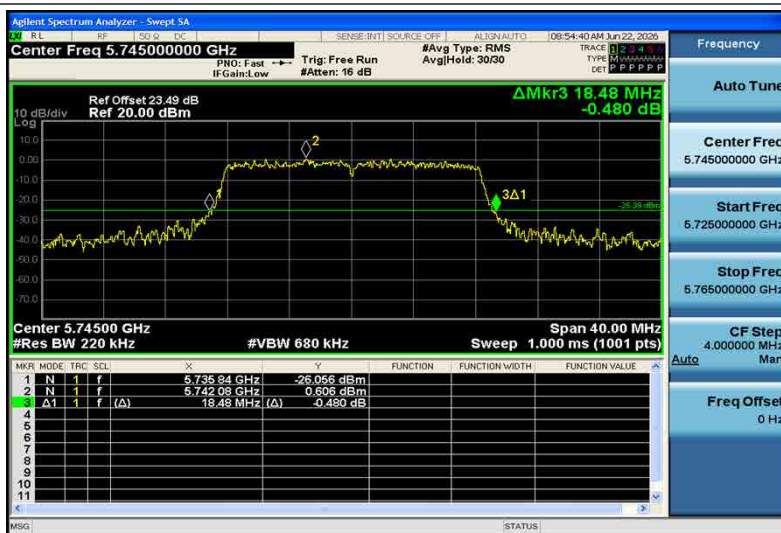
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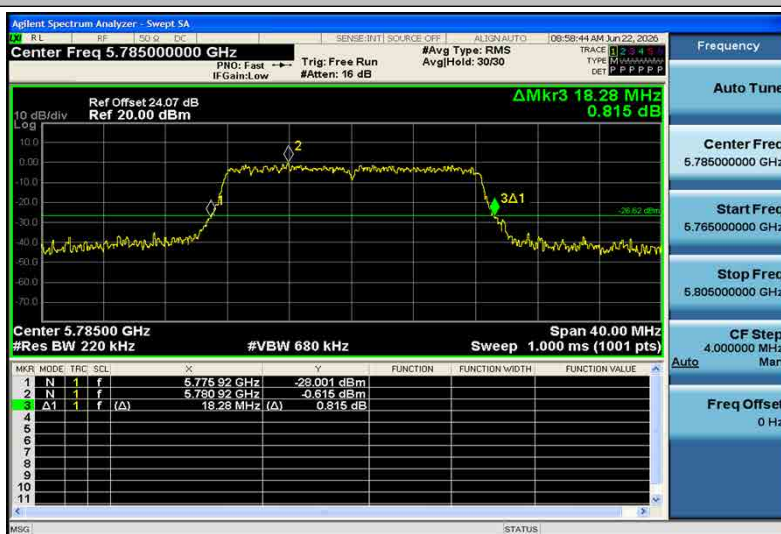
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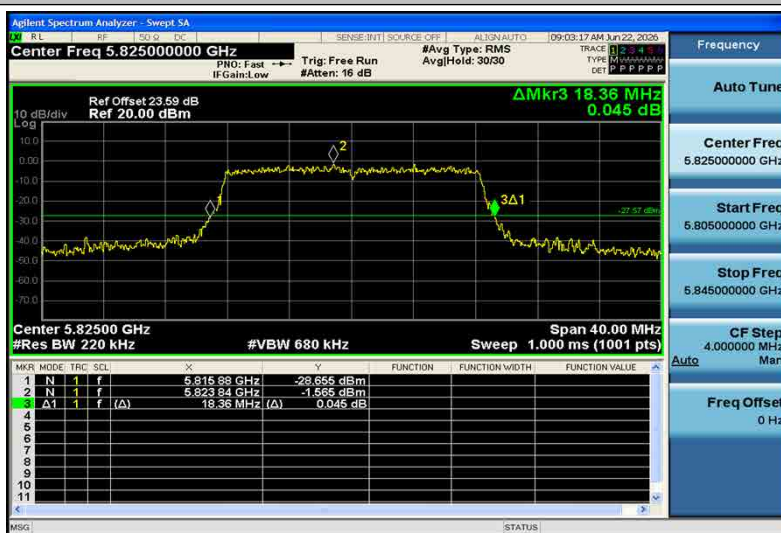
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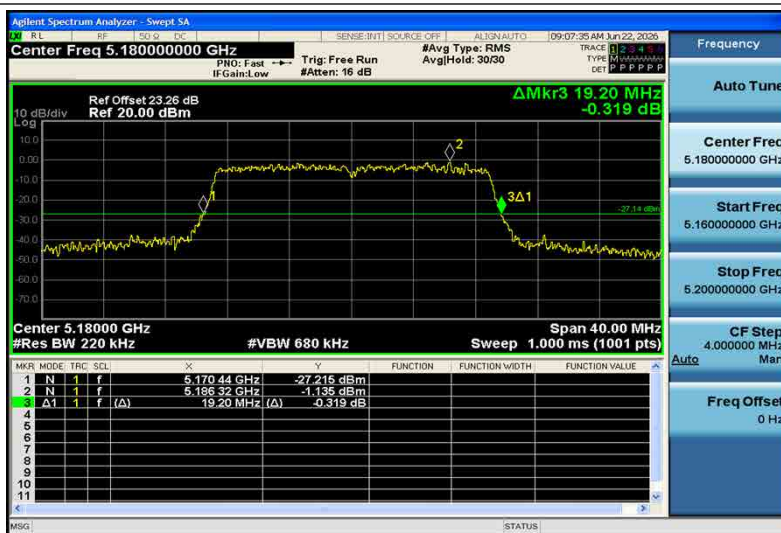
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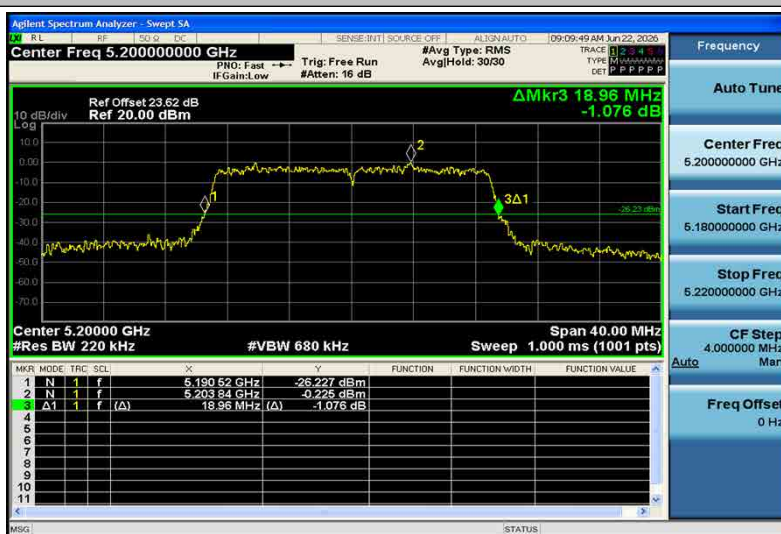
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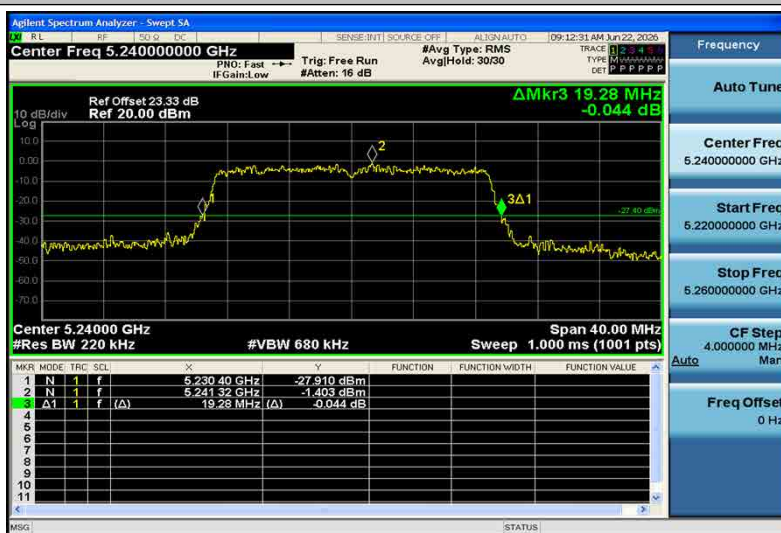
11A-Ant1-5825



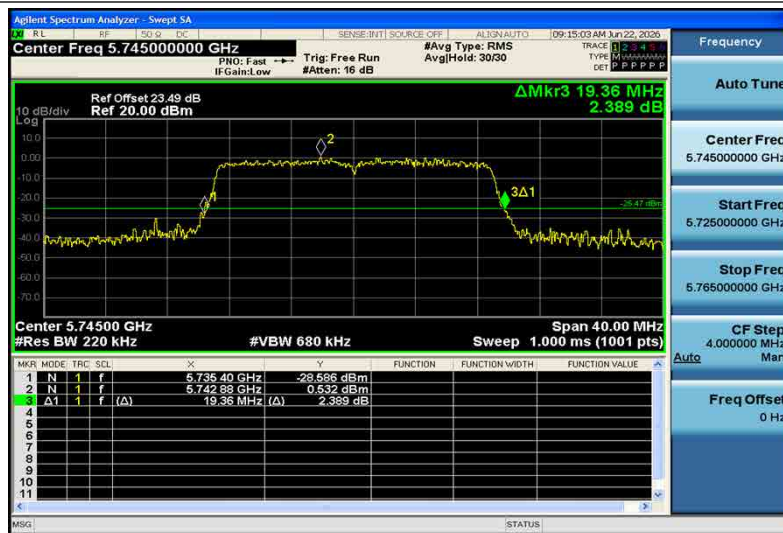
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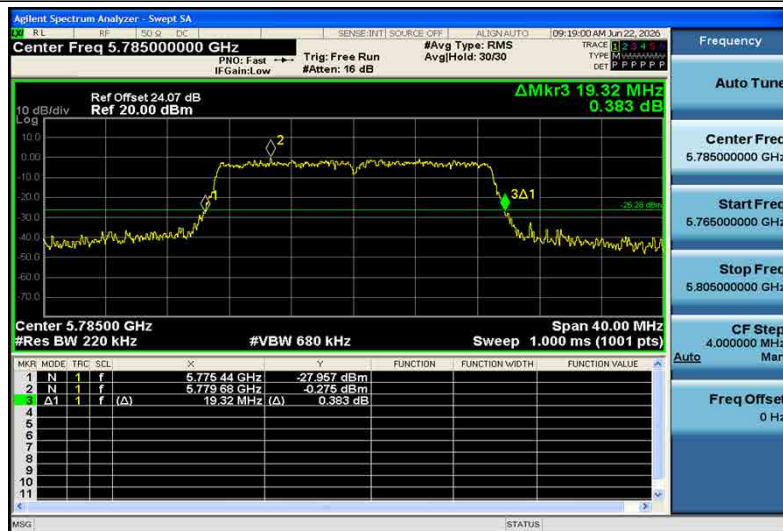
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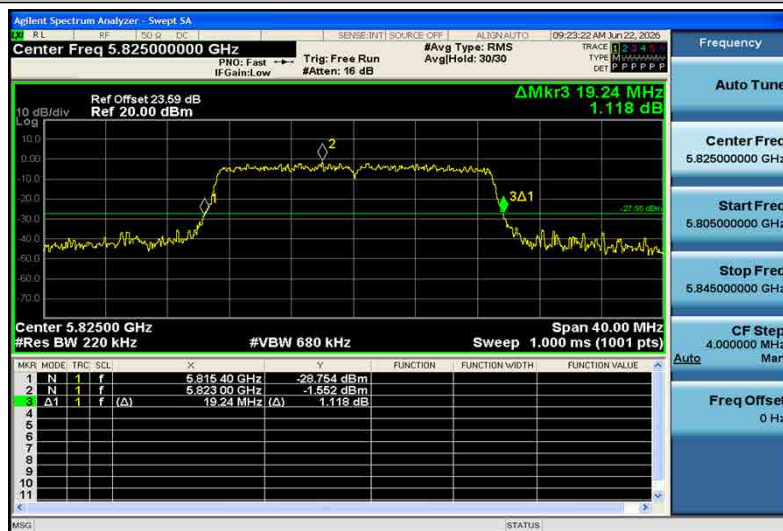
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11N20SISO-Ant1-5745



11N20SISO-Ant1-5785



11N20SISO-Ant1-5825



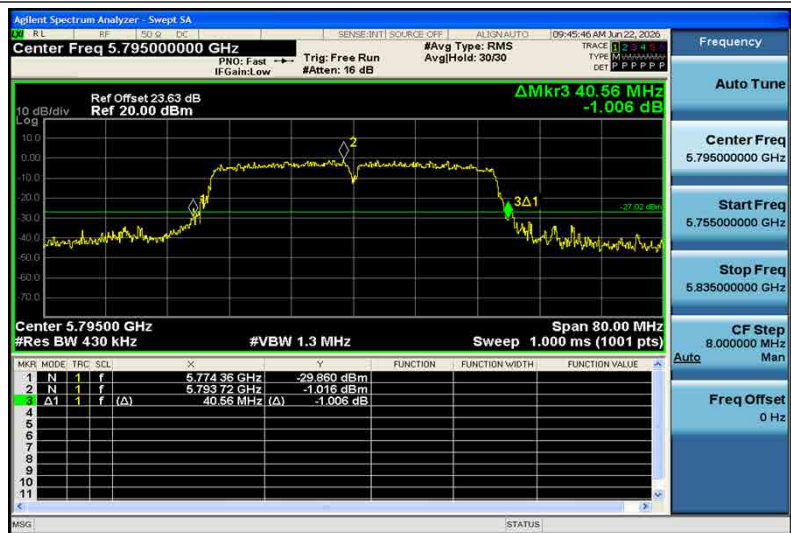
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11N40SISO-Ant1-5230



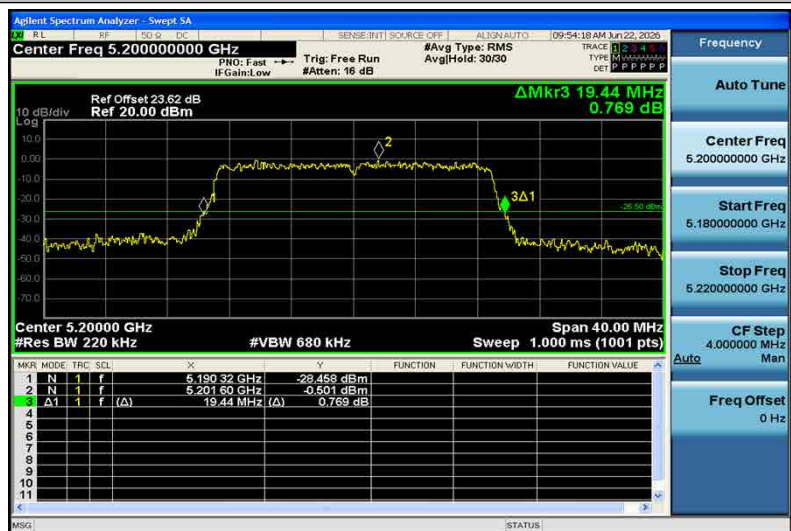
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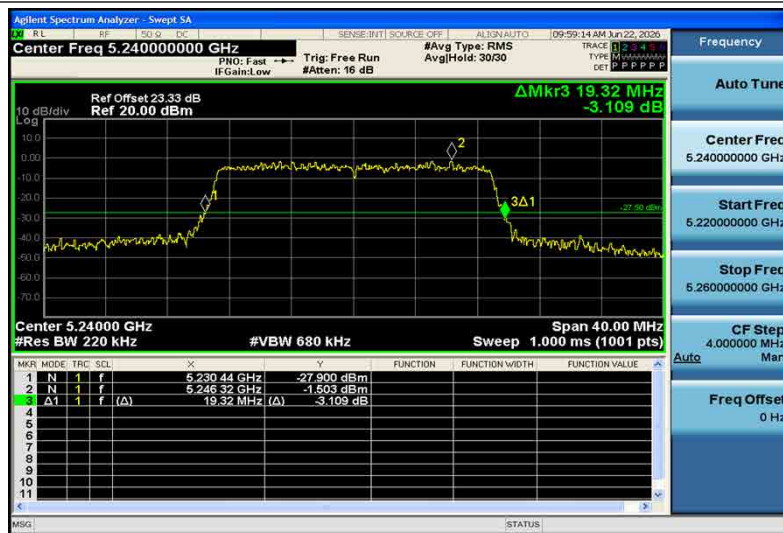
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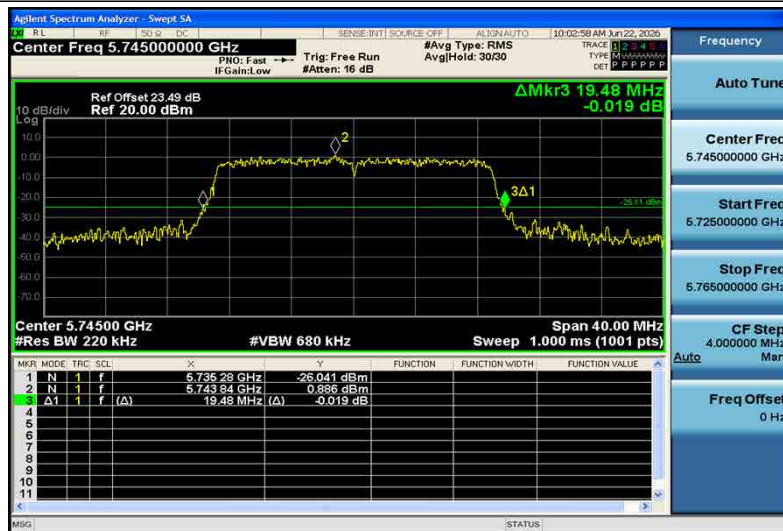
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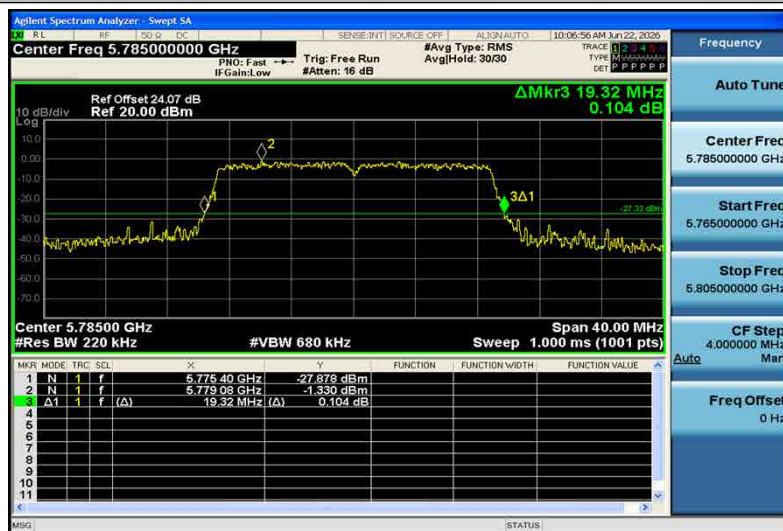
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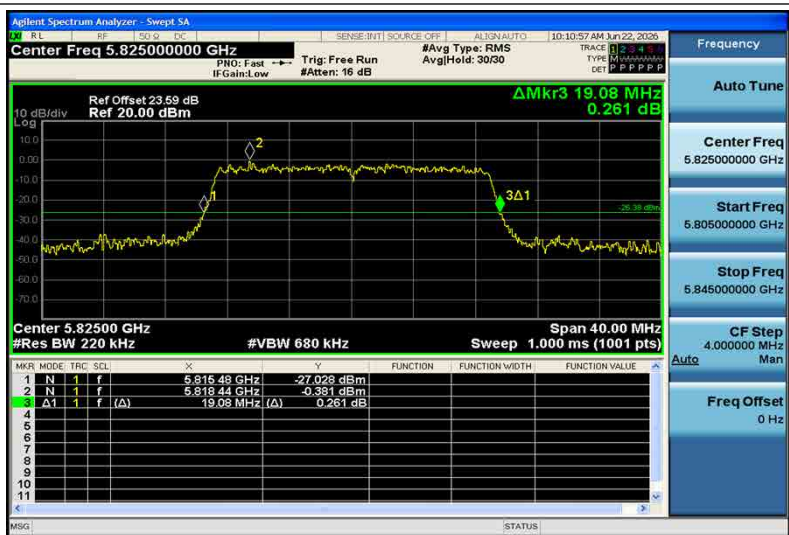
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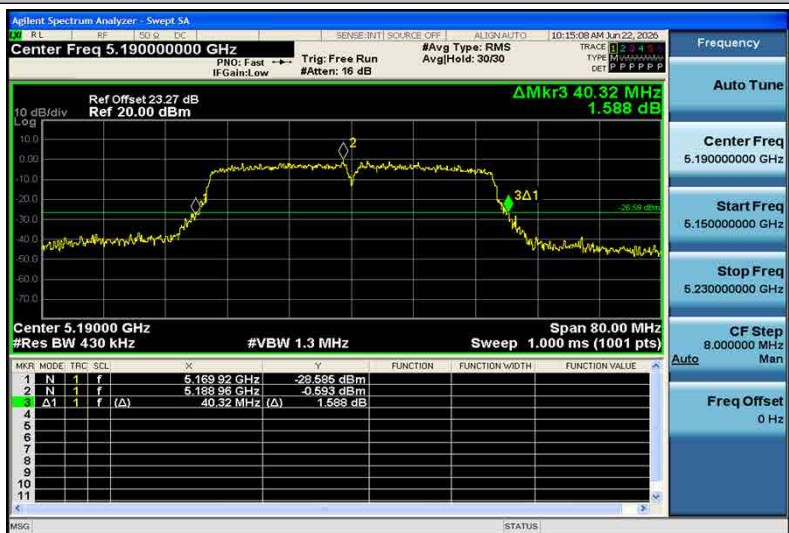
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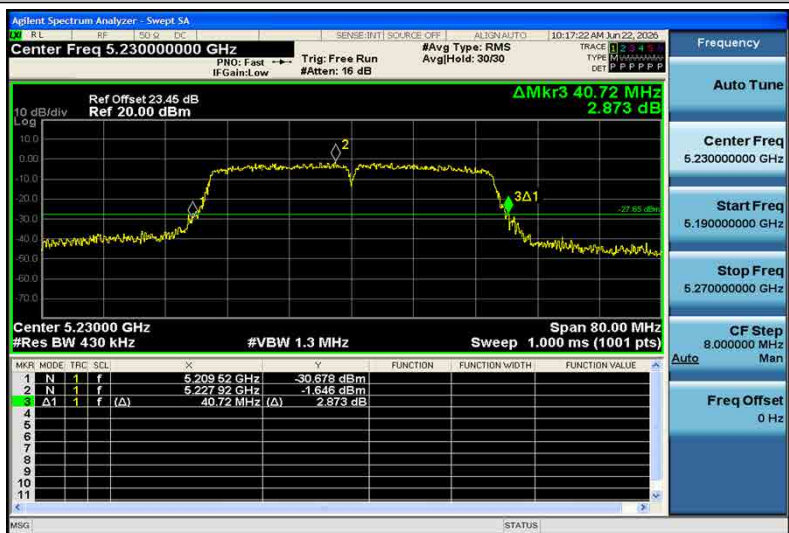
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11AC20SISO-Ant1-5825



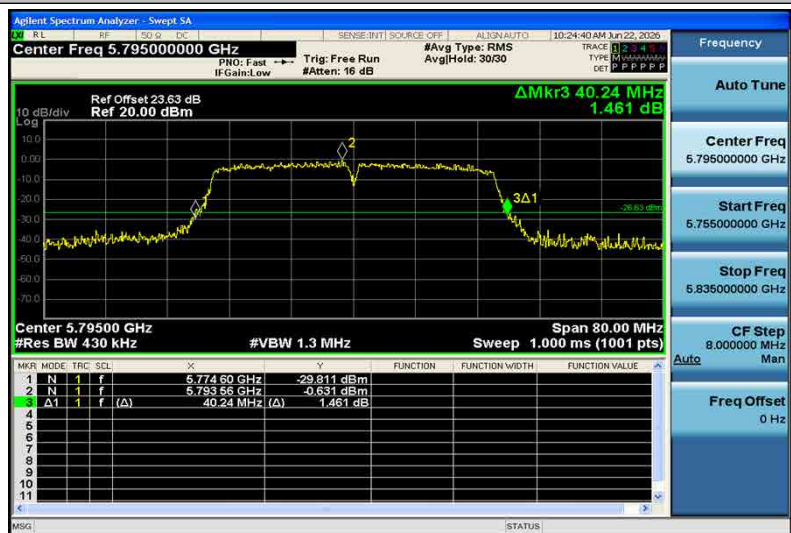
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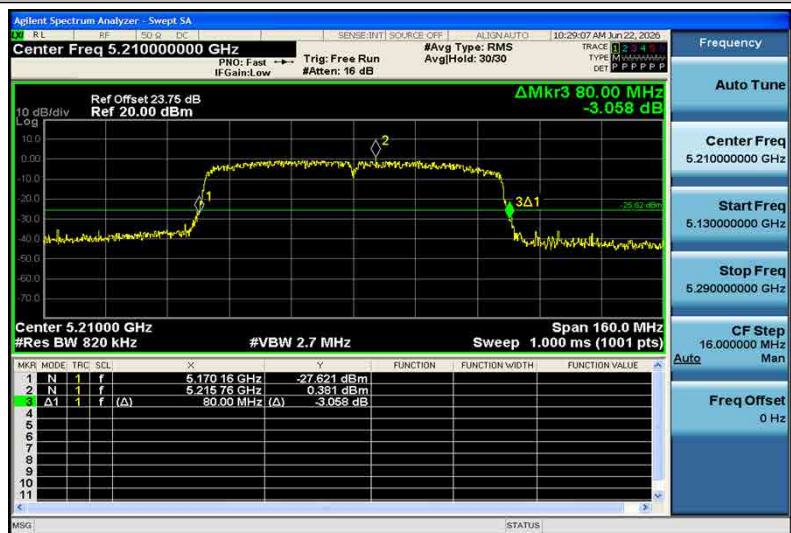
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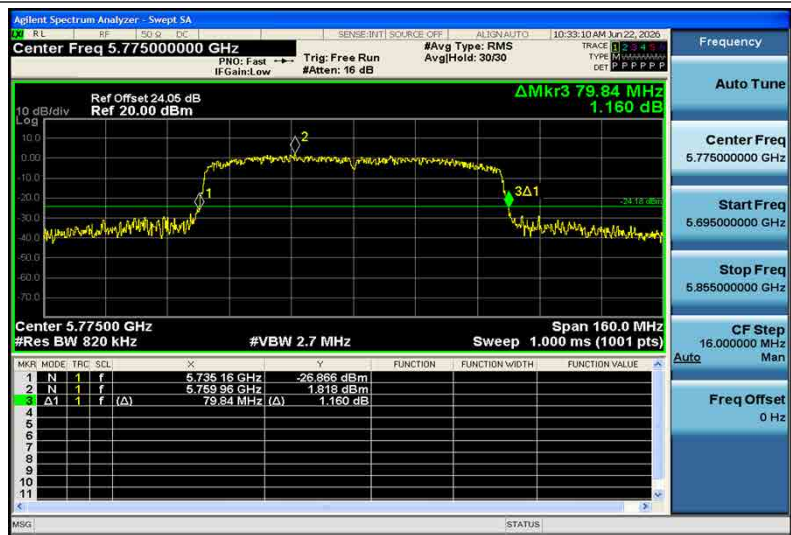
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11AC40SISO-Ant1-5795



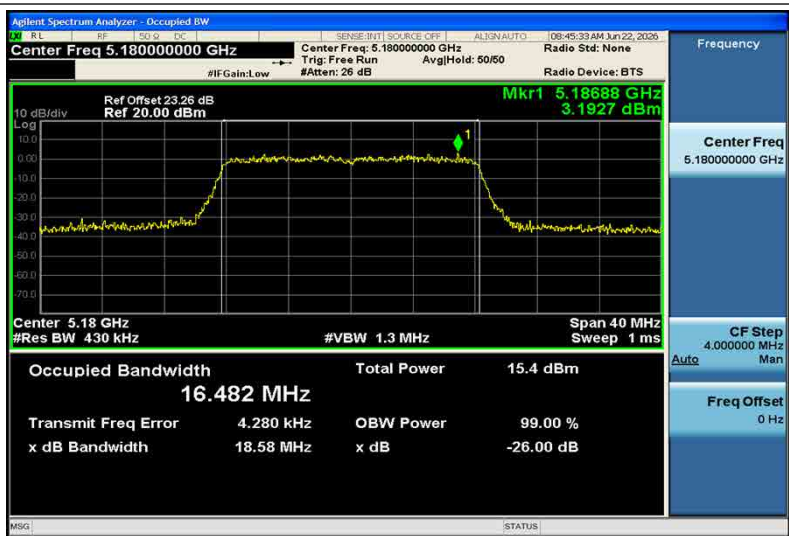
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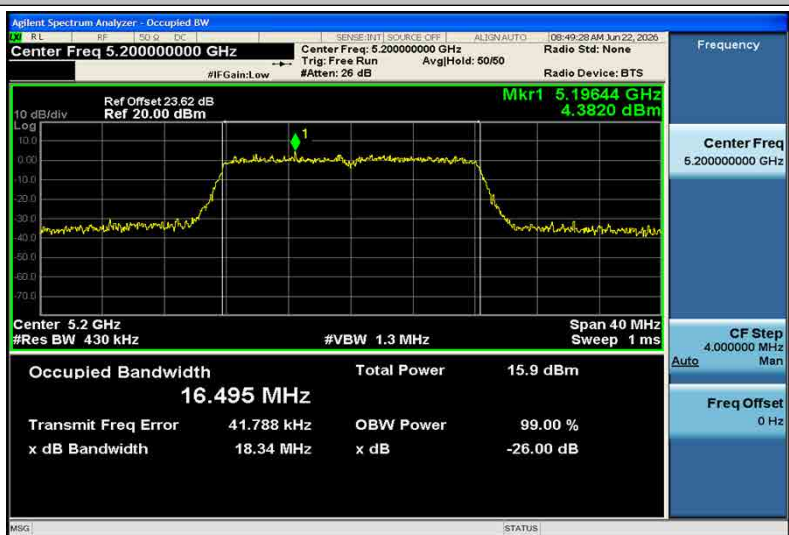
11AC80SISO-Ant1-5775

## Occupied channel bandwidth

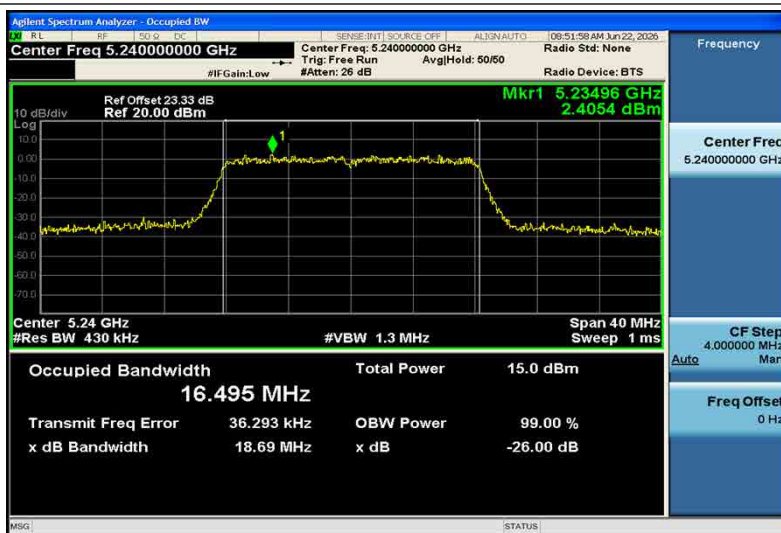
| TestMode   | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|------------|---------|----------------|-----------|-----------|-----------|------------|---------|
| 11A        | Ant1    | 5180           | 16.482    | 5171.7633 | 5188.2453 | ---        | ---     |
| 11A        | Ant1    | 5200           | 16.495    | 5191.7943 | 5208.2893 | ---        | ---     |
| 11A        | Ant1    | 5240           | 16.495    | 5231.7888 | 5248.2838 | ---        | ---     |
| 11A        | Ant1    | 5745           | 16.465    | 5736.8424 | 5753.3074 | ---        | ---     |
| 11A        | Ant1    | 5785           | 16.489    | 5776.8253 | 5793.3143 | ---        | ---     |
| 11A        | Ant1    | 5825           | 16.531    | 5816.8110 | 5833.3420 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 17.632    | 5171.2531 | 5188.8851 | ---        | ---     |
| 11N20SISO  | Ant1    | 5200           | 17.673    | 5191.2231 | 5208.8961 | ---        | ---     |
| 11N20SISO  | Ant1    | 5240           | 17.682    | 5231.2212 | 5248.9032 | ---        | ---     |
| 11N20SISO  | Ant1    | 5745           | 17.646    | 5736.2570 | 5753.9030 | ---        | ---     |
| 11N20SISO  | Ant1    | 5785           | 17.630    | 5776.2590 | 5793.8890 | ---        | ---     |
| 11N20SISO  | Ant1    | 5825           | 17.646    | 5816.2677 | 5833.9137 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 36.146    | 5171.9738 | 5208.1198 | ---        | ---     |
| 11N40SISO  | Ant1    | 5230           | 36.241    | 5211.9823 | 5248.2233 | ---        | ---     |
| 11N40SISO  | Ant1    | 5755           | 36.171    | 5736.9337 | 5773.1047 | ---        | ---     |
| 11N40SISO  | Ant1    | 5795           | 36.257    | 5776.9283 | 5813.1853 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180           | 17.661    | 5171.2155 | 5188.8765 | ---        | ---     |
| 11AC20SISO | Ant1    | 5200           | 17.646    | 5191.2258 | 5208.8718 | ---        | ---     |
| 11AC20SISO | Ant1    | 5240           | 17.677    | 5231.1995 | 5248.8765 | ---        | ---     |
| 11AC20SISO | Ant1    | 5745           | 17.625    | 5736.2428 | 5753.8678 | ---        | ---     |
| 11AC20SISO | Ant1    | 5785           | 17.637    | 5776.2609 | 5793.8979 | ---        | ---     |
| 11AC20SISO | Ant1    | 5825           | 17.675    | 5816.2266 | 5833.9016 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190           | 36.243    | 5171.9422 | 5208.1852 | ---        | ---     |
| 11AC40SISO | Ant1    | 5230           | 36.155    | 5211.9029 | 5248.0579 | ---        | ---     |
| 11AC40SISO | Ant1    | 5755           | 36.131    | 5736.9889 | 5773.1199 | ---        | ---     |
| 11AC40SISO | Ant1    | 5795           | 36.171    | 5777.0066 | 5813.1776 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210           | 74.503    | 5172.7113 | 5247.2143 | ---        | ---     |
| 11AC80SISO | Ant1    | 5775           | 74.832    | 5737.3975 | 5812.2295 | ---        | ---     |



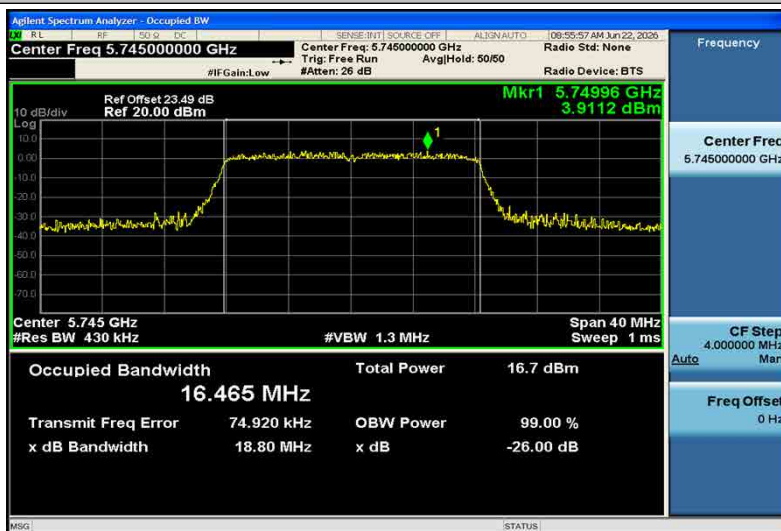
11A-Ant1-5180



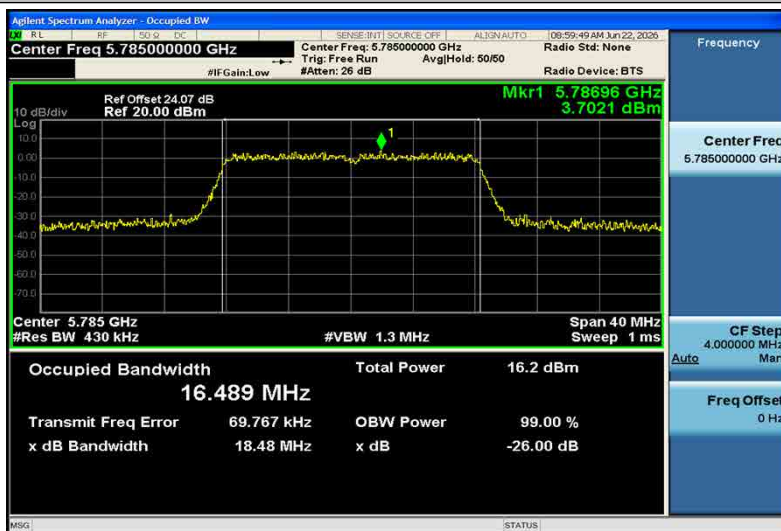
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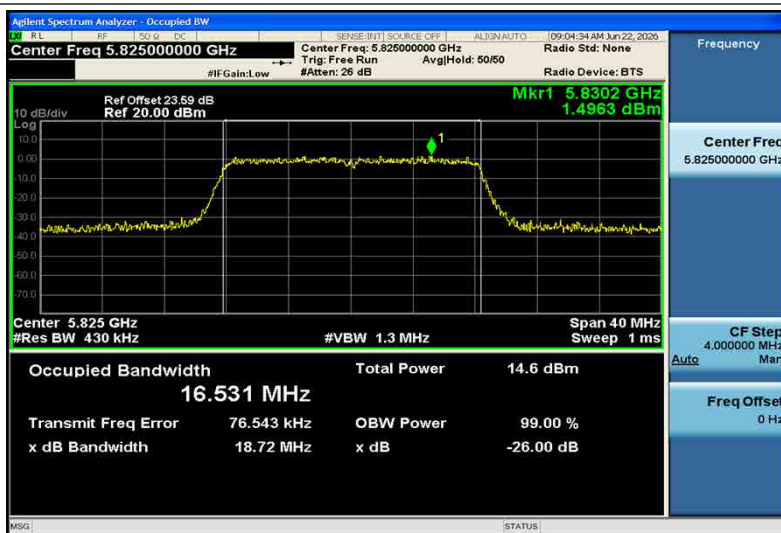
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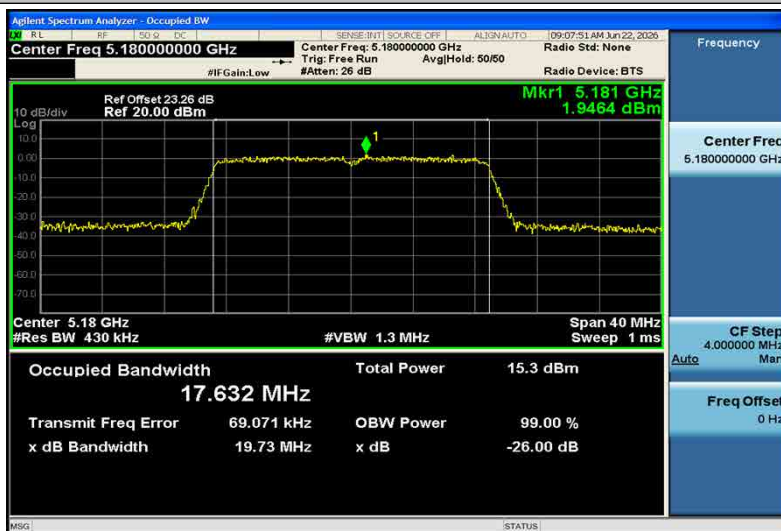
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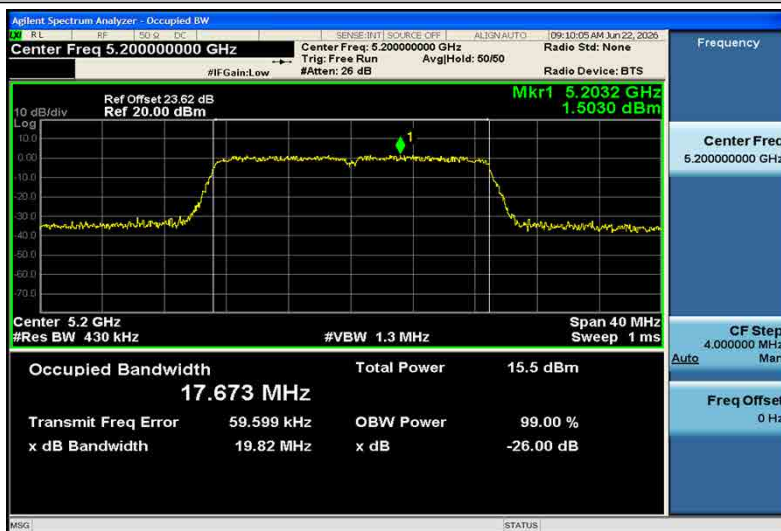
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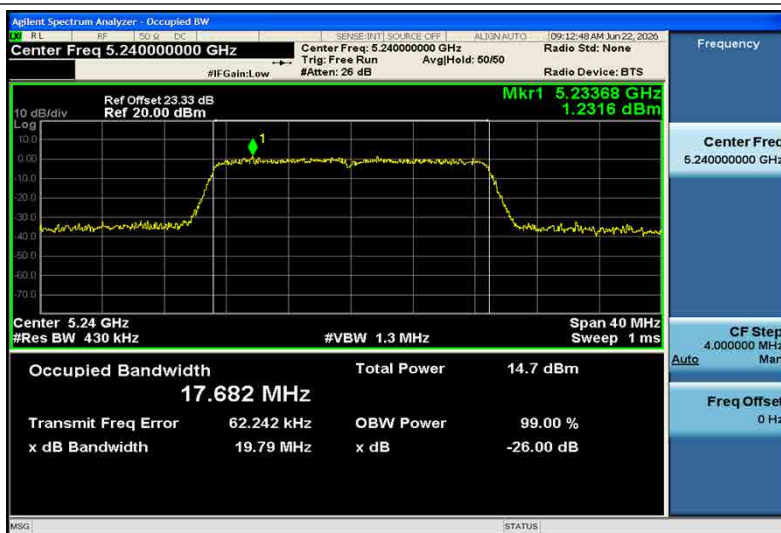
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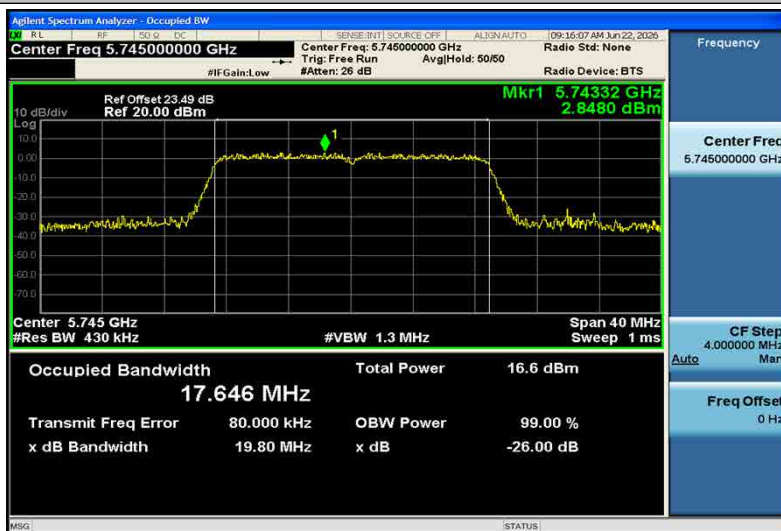
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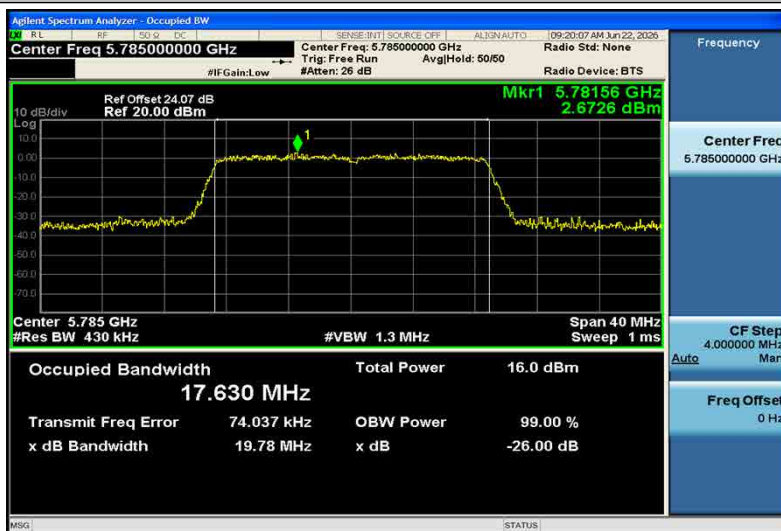
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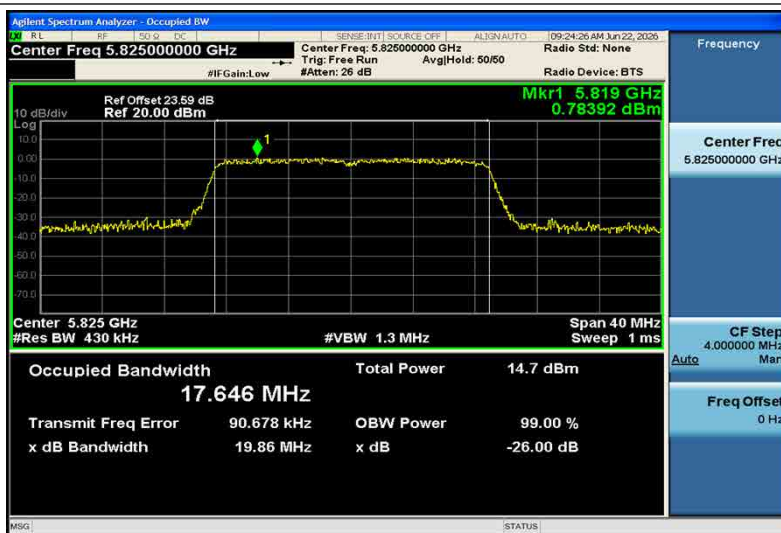
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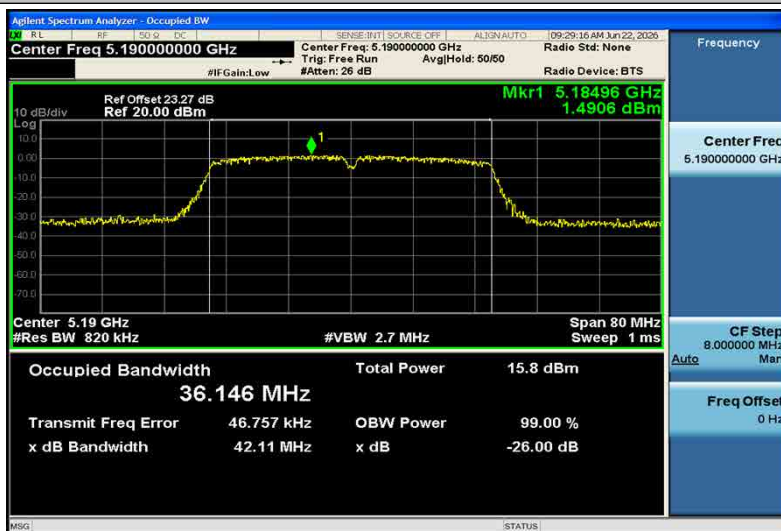
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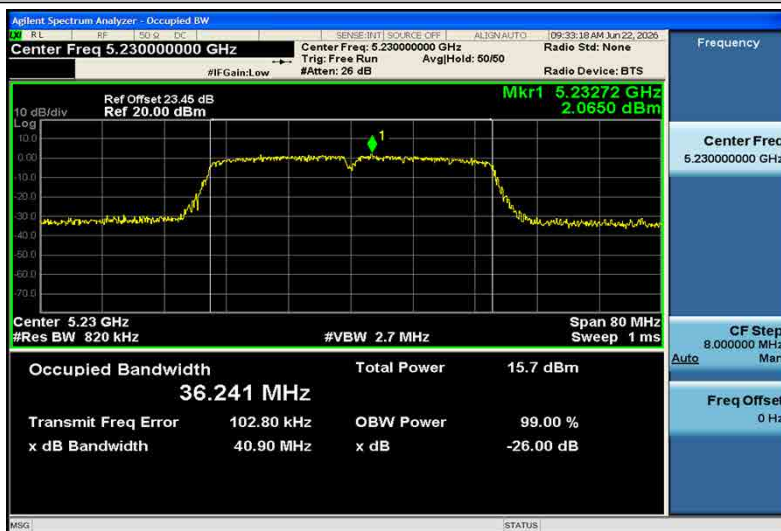
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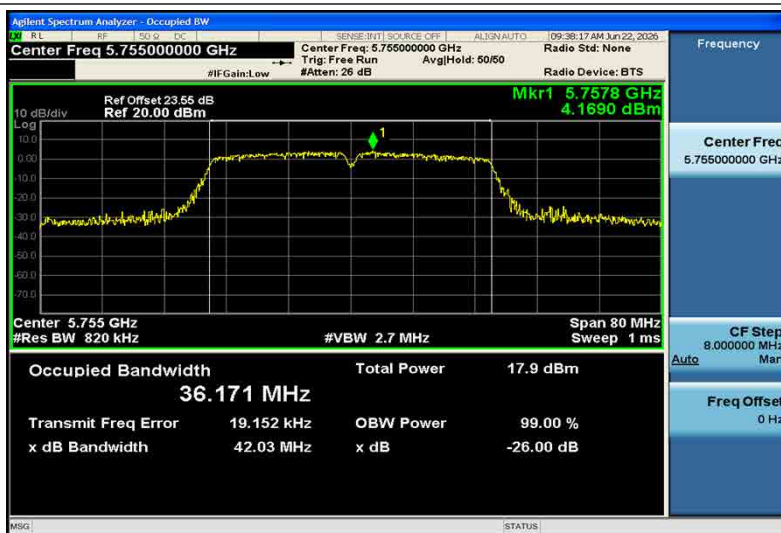
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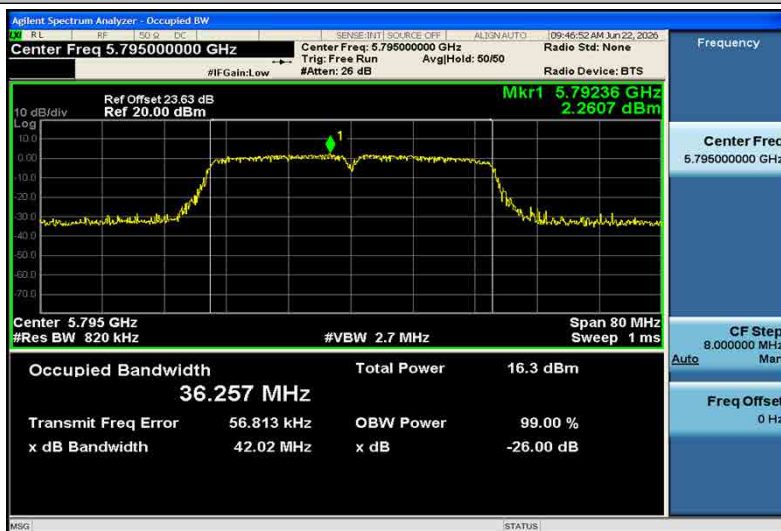
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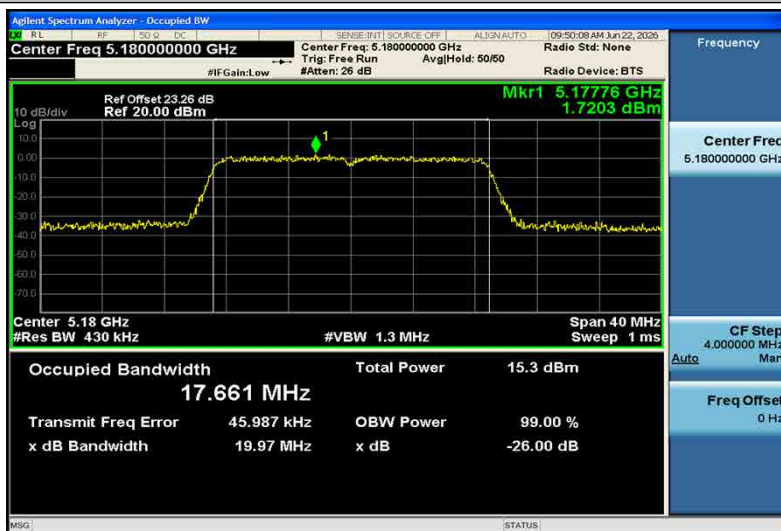
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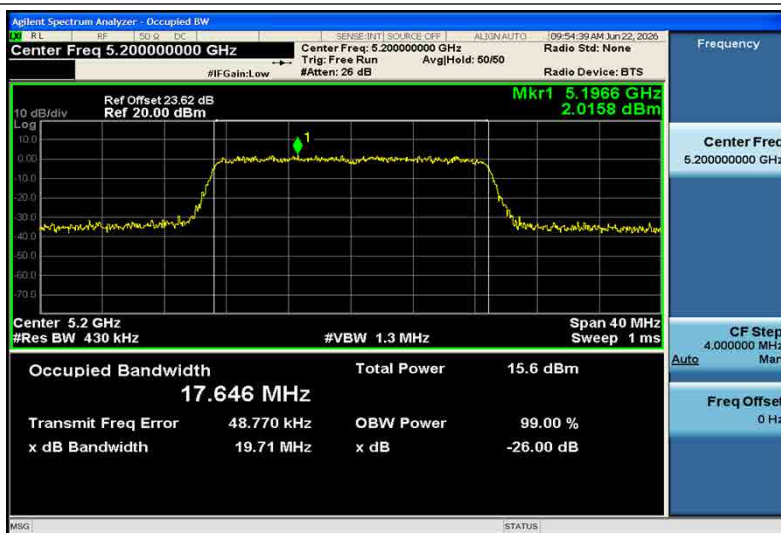
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11N40SISO-Ant1-5795



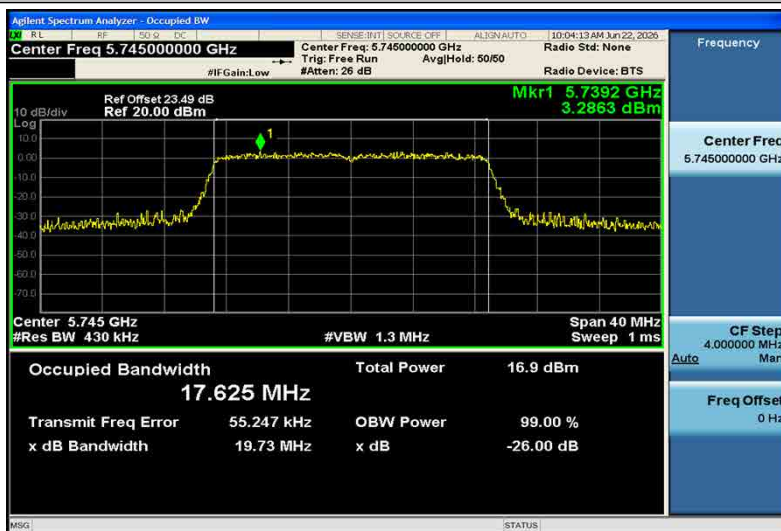
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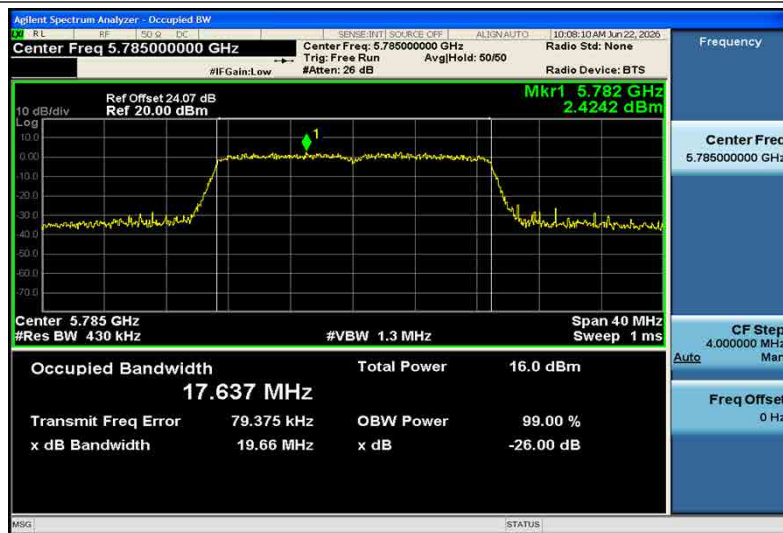
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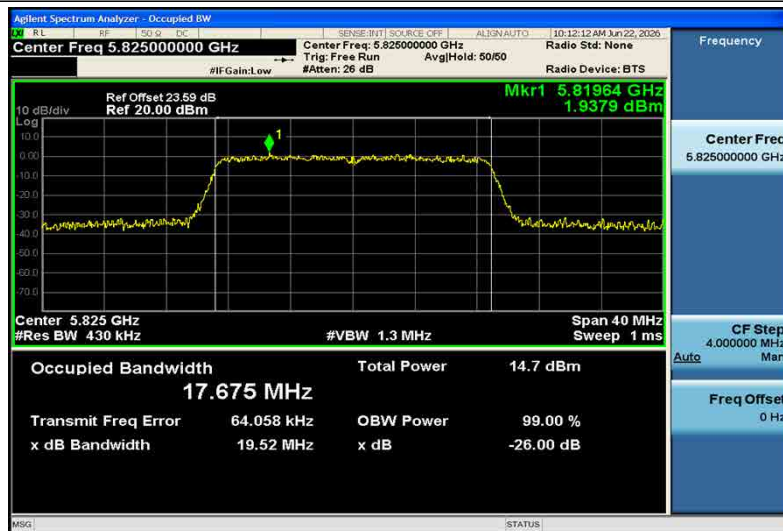
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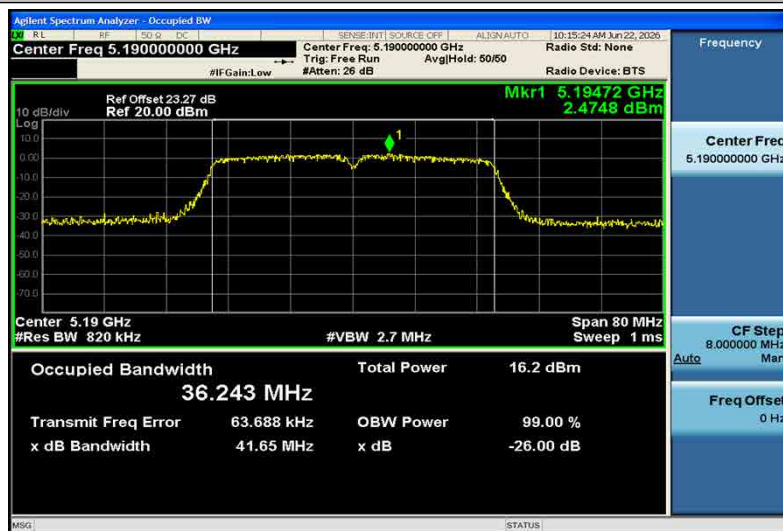
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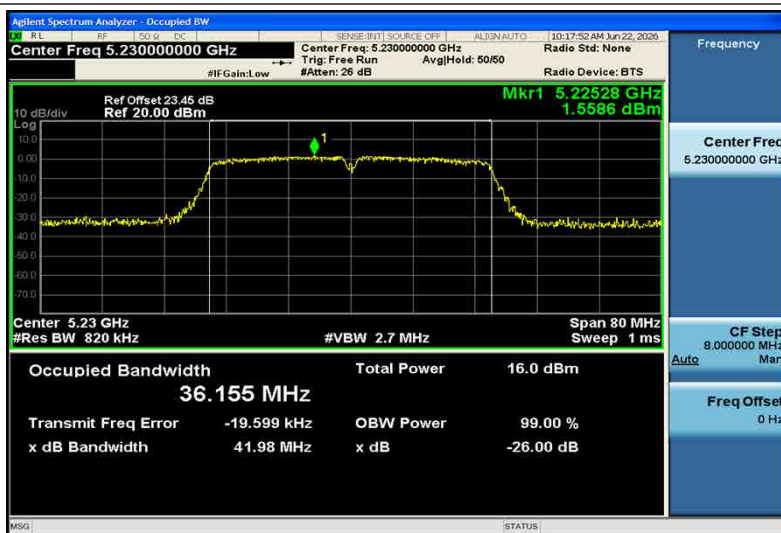
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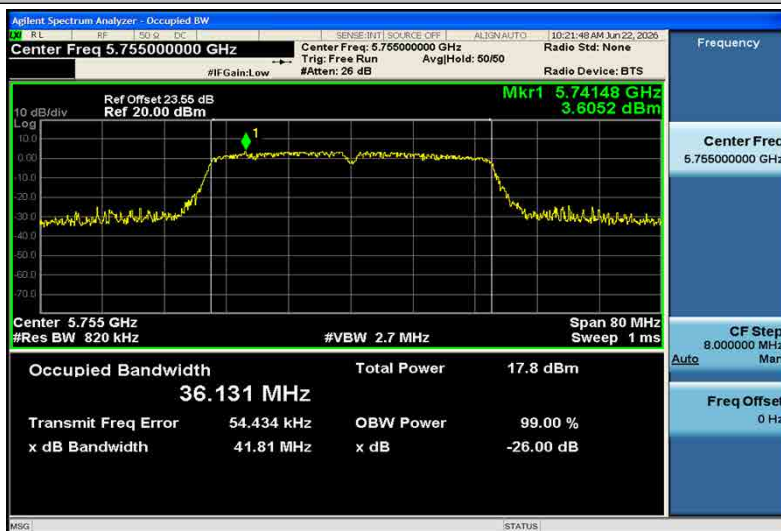
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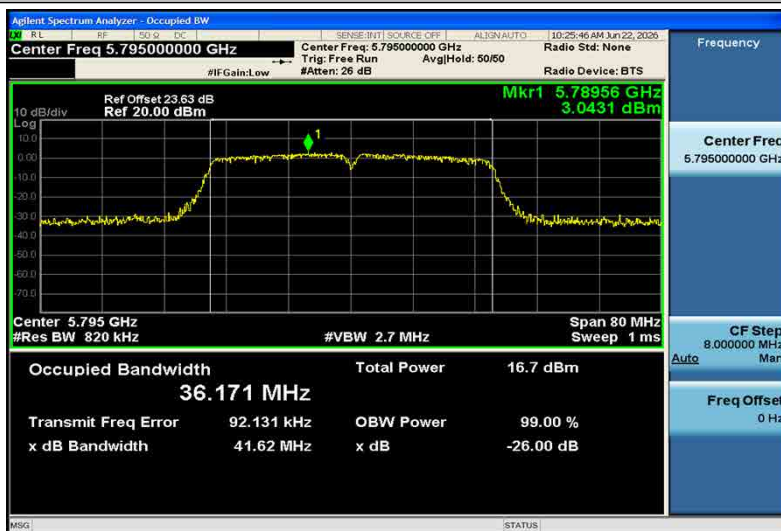
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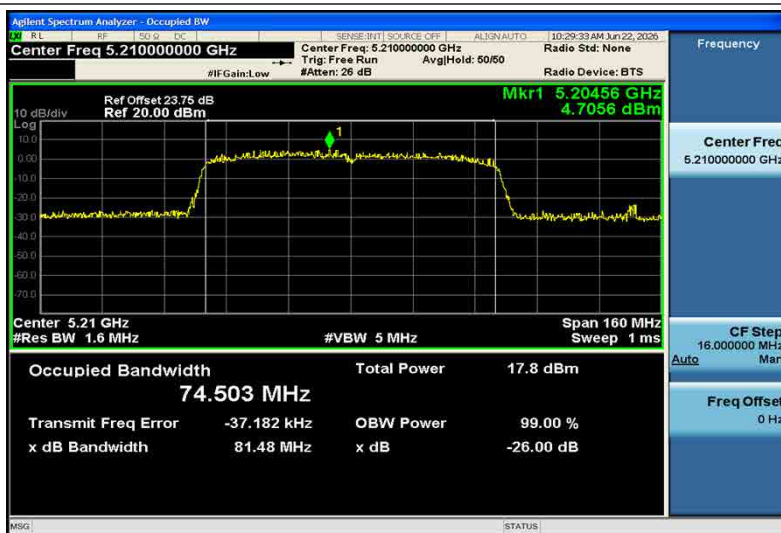
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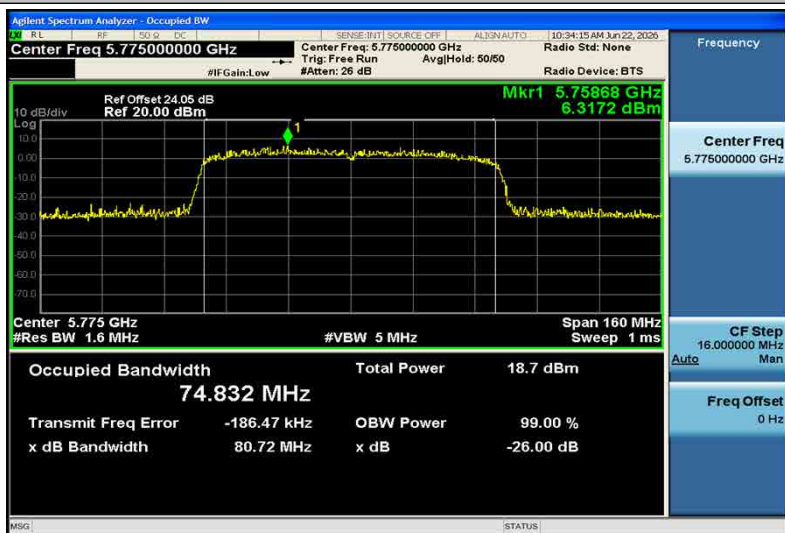
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11AC40SISO-Ant1-5795



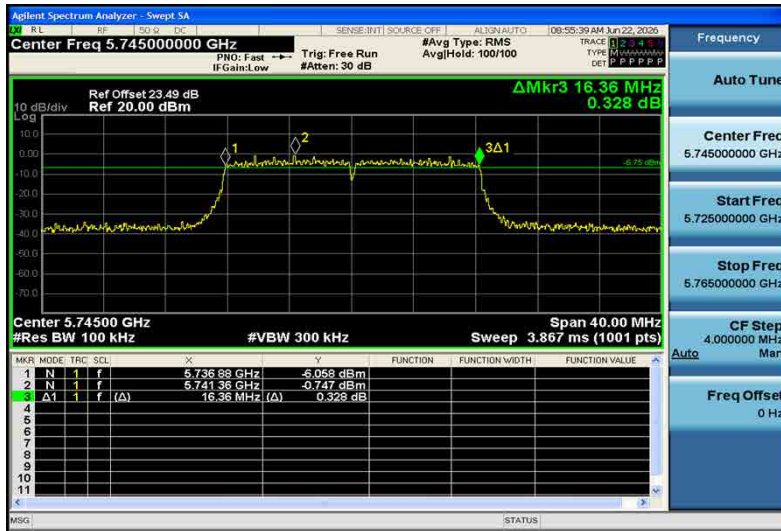
11AC80SISO-Ant1-5210



11AC80SISO-Ant1-5775

Min emission bandwidth(Band 4)

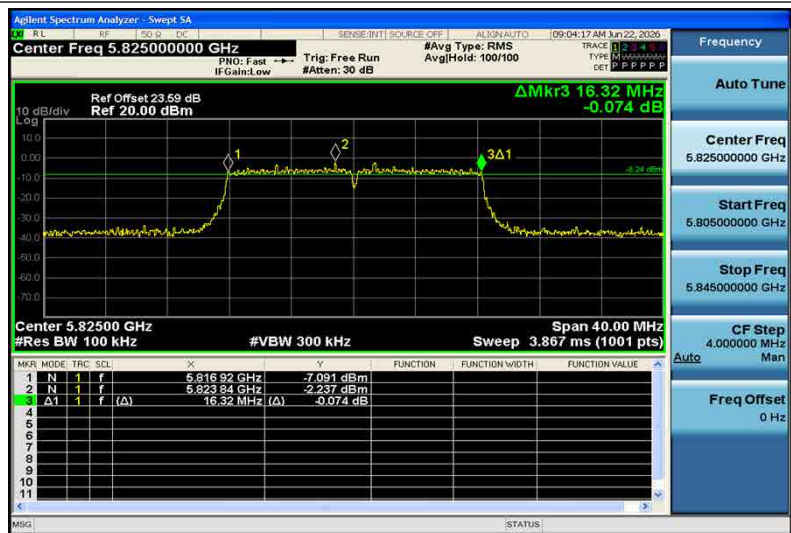
| TestMode   | Antenna | Frequency[MHz] | 6db EBW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|------------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5745           | 16.360           | 5736.880 | 5753.240 | 0.5        | PASS    |
| 11A        | Ant1    | 5785           | 16.360           | 5776.880 | 5793.240 | 0.5        | PASS    |
| 11A        | Ant1    | 5825           | 16.320           | 5816.920 | 5833.240 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5745           | 17.280           | 5736.560 | 5753.840 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5785           | 17.520           | 5776.320 | 5793.840 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5825           | 17.520           | 5816.320 | 5833.840 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5755           | 34.960           | 5737.560 | 5772.520 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5795           | 35.040           | 5777.560 | 5812.600 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5745           | 17.040           | 5736.560 | 5753.600 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5785           | 17.080           | 5776.520 | 5793.600 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5825           | 17.520           | 5816.320 | 5833.840 | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5755           | 35.280           | 5737.320 | 5772.600 | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5795           | 35.120           | 5777.480 | 5812.600 | 0.5        | PASS    |
| 11AC80SISO | Ant1    | 5775           | 72.480           | 5737.560 | 5810.040 | 0.5        | PASS    |



11A-Ant1-5745-PASS



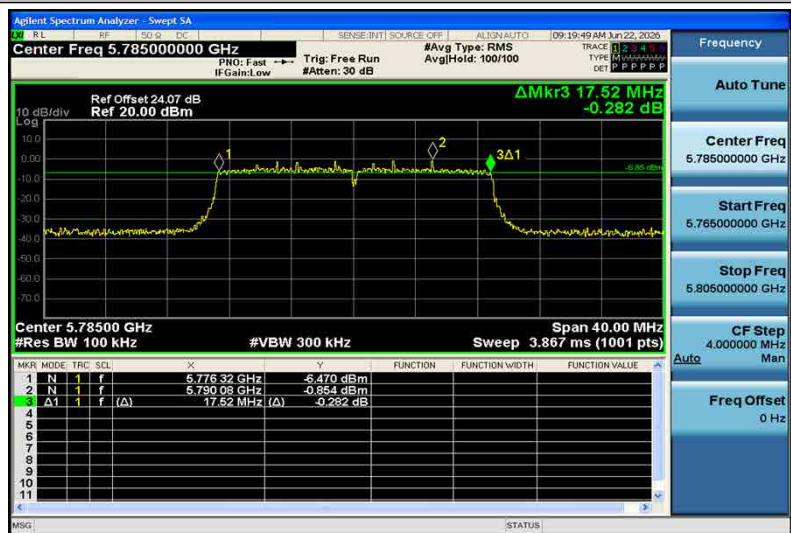
11A-Ant1-5785-PASS



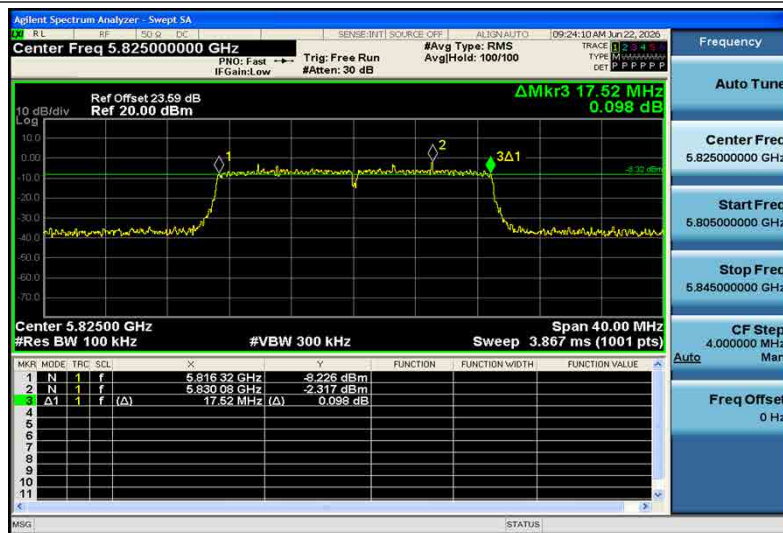
11A-Ant1-5825-PASS



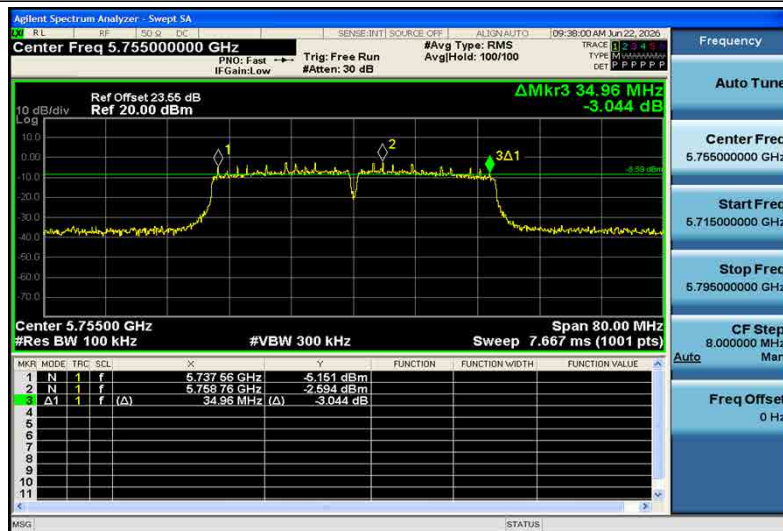
11N20SISO-Ant1-5745-PASS



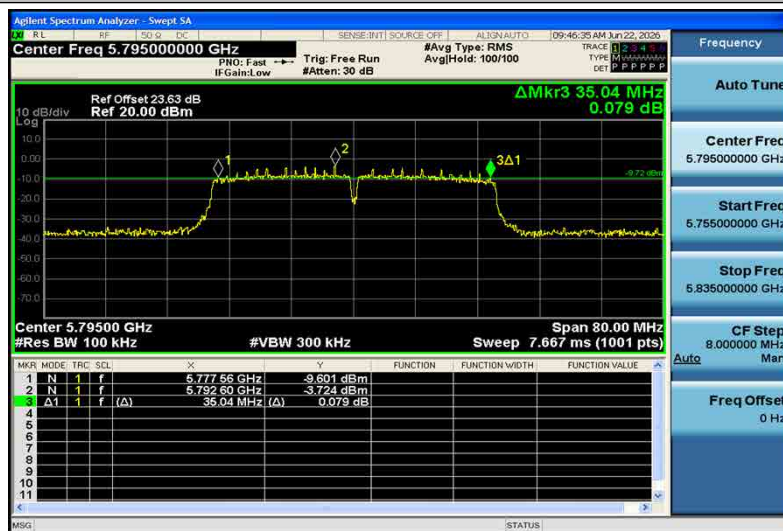
11N20SISO-Ant1-5785-PASS



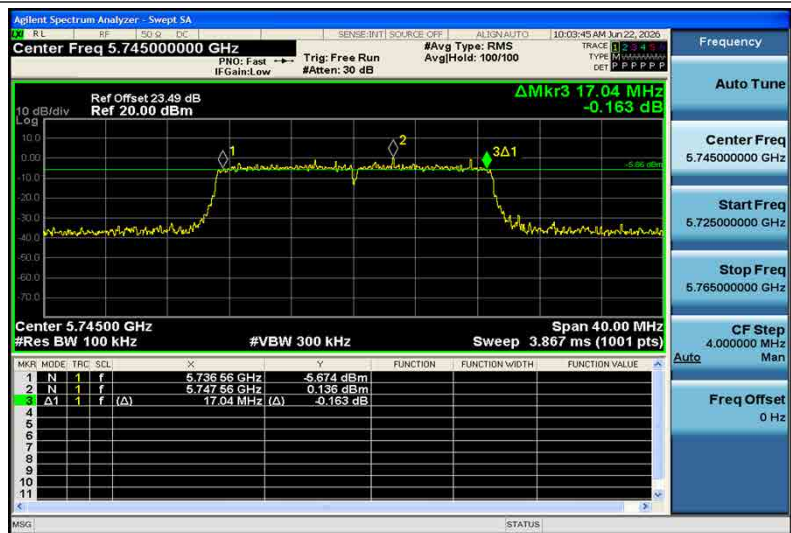
11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5755-PASS



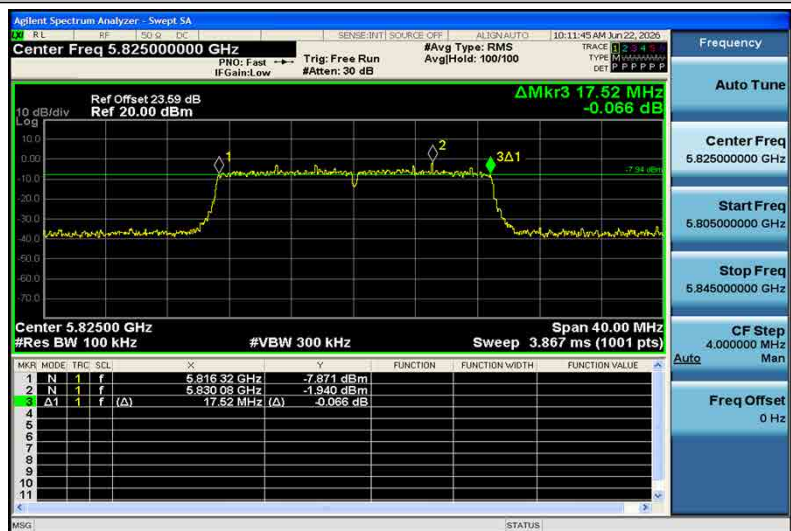
11N40SISO-Ant1-5795-PASS



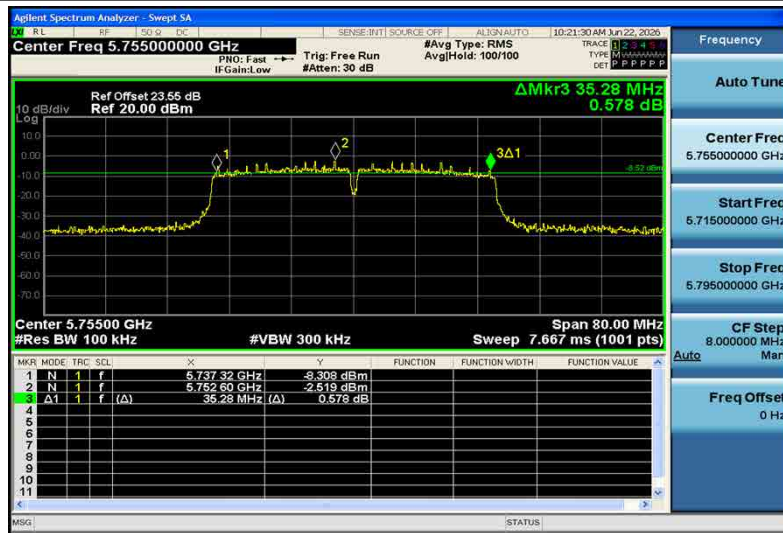
11AC20SISO-Ant1-5745-PASS



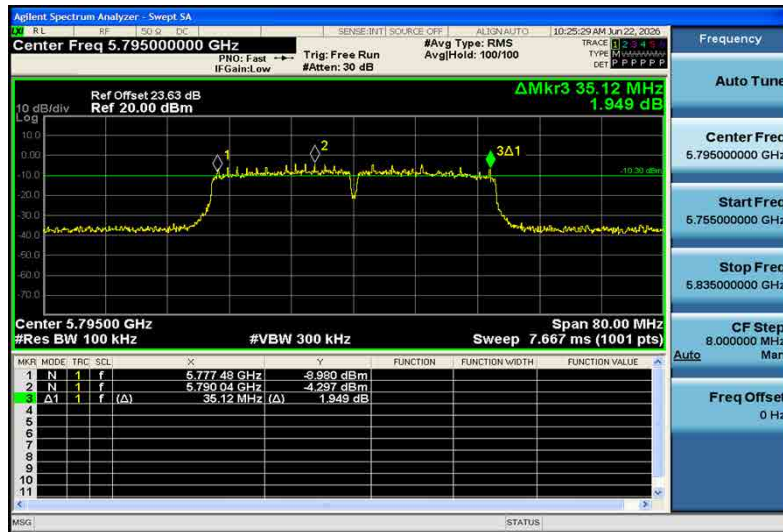
11AC20SISO-Ant1-5785-PASS



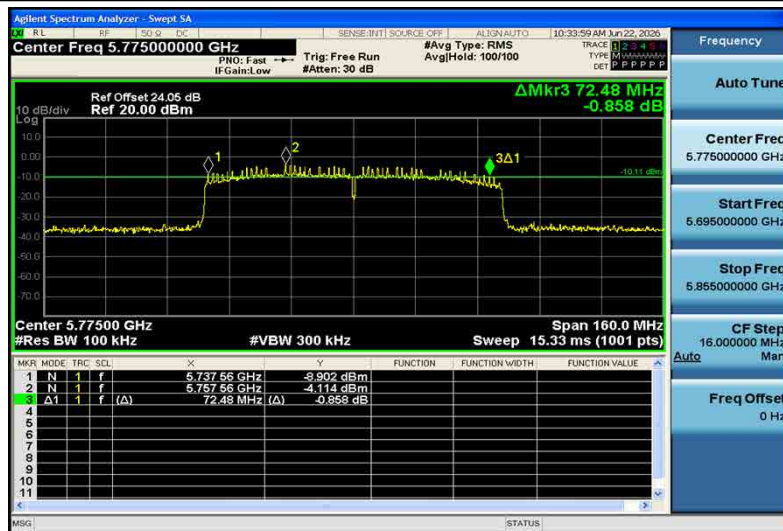
11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS



11AC80SISO-Ant1-5775-PASS



### 3.4 Conducted Output Power

#### 3.4.1 Limit

| FCC Part15, Subpart E (15.407) |                        |                                                                     |                       |
|--------------------------------|------------------------|---------------------------------------------------------------------|-----------------------|
| Section                        | Test Item              | Limit                                                               | Frequency Range (MHz) |
| 15.407(a)                      | Conducted Output Power | Master device: 1 Watt (30 dBm)<br>Client device: 250 mW (23.98 dBm) | 5150-5250             |
|                                |                        | 250 mW (23.98 dBm)                                                  | 5250-5350             |
|                                |                        | 250 mW (23.98 dBm)                                                  | 5470-5725             |
|                                |                        | 1 Watt (30dBm)                                                      | 5725-5850             |

Note:

- a. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- b. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

#### 3.4.2 Test Procedure

| Test Method                         |                              |
|-------------------------------------|------------------------------|
| ●Conducted Measurement              | ○Radiated Measurement        |
| Test Channels                       |                              |
| ●Lowest, Middle and Highest Channel | ○ Lowest and Highest Channel |
| Environmental conditions            |                              |
| ●Normal                             | ○Normal and Extreme          |
| Note:●:Test    ○:No Test            |                              |

- a) The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b) Test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

### 3.4.3 Test Setup



### 3.4.4 Table of Parameters of Text Software Setting

| UNII-1          |            |         |         |
|-----------------|------------|---------|---------|
| Test Software   | Smarttools |         |         |
| Frequency (MHz) | 5180       | 5200    | 5240    |
| IEEE 802.11a    | Default    | Default | Default |
| IEEE 802.11n20  | Default    | Default | Default |
| IEEE 802.11ac20 | Default    | Default | Default |
| Frequency (MHz) | 5190       | 5230    |         |
| IEEE 802.11n40  | Default    | Default |         |
| IEEE 802.11ac40 | Default    | Default |         |
| Frequency (MHz) | 5210       |         |         |
| IEEE 802.11ac80 | Default    |         |         |

| UNII-3          |            |         |         |
|-----------------|------------|---------|---------|
| Test Software   | Smarttools |         |         |
| Frequency (MHz) | 5745       | 5785    | 5825    |
| IEEE 802.11a    | Default    | Default | Default |
| IEEE 802.11n20  | Default    | Default | Default |
| IEEE 802.11ac20 | Default    | Default | Default |
| Frequency (MHz) | 5755       | 5795    |         |
| IEEE 802.11n40  | Default    | Default |         |
| IEEE 802.11ac40 | Default    | Default |         |
| Frequency (MHz) | 5775       |         |         |
| IEEE 802.11ac80 | Default    |         |         |

### 3.4.5 The Result

| Test Mode  | Antenna | Frequency[MHz] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|--------------|-------------|---------|
| 11A        | Ant1    | 5180           | 10.25        | ≤23.98      | PASS    |
| 11A        | Ant1    | 5200           | 10.24        | ≤23.98      | PASS    |
| 11A        | Ant1    | 5240           | 9.21         | ≤23.98      | PASS    |
| 11A        | Ant1    | 5745           | 10.88        | ≤30.00      | PASS    |
| 11A        | Ant1    | 5785           | 10.35        | ≤30.00      | PASS    |
| 11A        | Ant1    | 5825           | 9.11         | ≤30.00      | PASS    |
| 11N20SISO  | Ant1    | 5180           | 9.84         | ≤23.98      | PASS    |
| 11N20SISO  | Ant1    | 5200           | 10.12        | ≤23.98      | PASS    |
| 11N20SISO  | Ant1    | 5240           | 9.34         | ≤23.98      | PASS    |
| 11N20SISO  | Ant1    | 5745           | 10.82        | ≤30.00      | PASS    |
| 11N20SISO  | Ant1    | 5785           | 10.44        | ≤30.00      | PASS    |
| 11N20SISO  | Ant1    | 5825           | 9.20         | ≤30.00      | PASS    |
| 11N40SISO  | Ant1    | 5190           | 9.78         | ≤23.98      | PASS    |
| 11N40SISO  | Ant1    | 5230           | 9.47         | ≤23.98      | PASS    |
| 11N40SISO  | Ant1    | 5755           | 11.26        | ≤30.00      | PASS    |
| 11N40SISO  | Ant1    | 5795           | 10.12        | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5180           | 9.85         | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5200           | 9.89         | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5240           | 9.32         | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5745           | 11.38        | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5785           | 10.50        | ≤30.00      | PASS    |
| 11AC20SISO | Ant1    | 5825           | 9.16         | ≤30.00      | PASS    |
| 11AC40SISO | Ant1    | 5190           | 9.98         | ≤23.98      | PASS    |
| 11AC40SISO | Ant1    | 5230           | 9.48         | ≤23.98      | PASS    |
| 11AC40SISO | Ant1    | 5755           | 11.47        | ≤30.00      | PASS    |
| 11AC40SISO | Ant1    | 5795           | 10.33        | ≤30.00      | PASS    |
| 11AC80SISO | Ant1    | 5210           | 11.09        | ≤23.98      | PASS    |
| 11AC80SISO | Ant1    | 5775           | 12.02        | ≤30.00      | PASS    |

Note: The duty cycle factor and line loss are compensated in the average conducted output power.

## 3.5 Power Spectral Density

### 3.5.1 Limit

| FCC Part15, Subpart E (15.407) |                        |                                                        |                       |
|--------------------------------|------------------------|--------------------------------------------------------|-----------------------|
| Section                        | Test Item              | Limit                                                  | Frequency Range (MHz) |
| 15.407(a)                      | Power Spectral Density | Master device: 17 dBm/MHz<br>Client device: 11 dBm/MHz | 5150-5250             |
|                                |                        | 11 dBm/MHz                                             | 5250-5350             |
|                                |                        | 11 dBm/MHz                                             | 5470-5725             |
|                                |                        | 30 dBm/500 kHz                                         | 5725-5850             |

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 300kHz and VBW at 1500kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add  $10 \log (500 \text{ kHz}/300 \text{ kHz})$  to the measured result, i.e. 2.22 dB.
- During the test of U-NII 3 PSD, the measurement result with RBW=300kHz has been added 2.22 dB by compensating offset,  $\text{offset} = \text{cable loss} + \text{duty factor} + 10 \log(500 \text{ kHz}/300 \text{ kHz})$ .

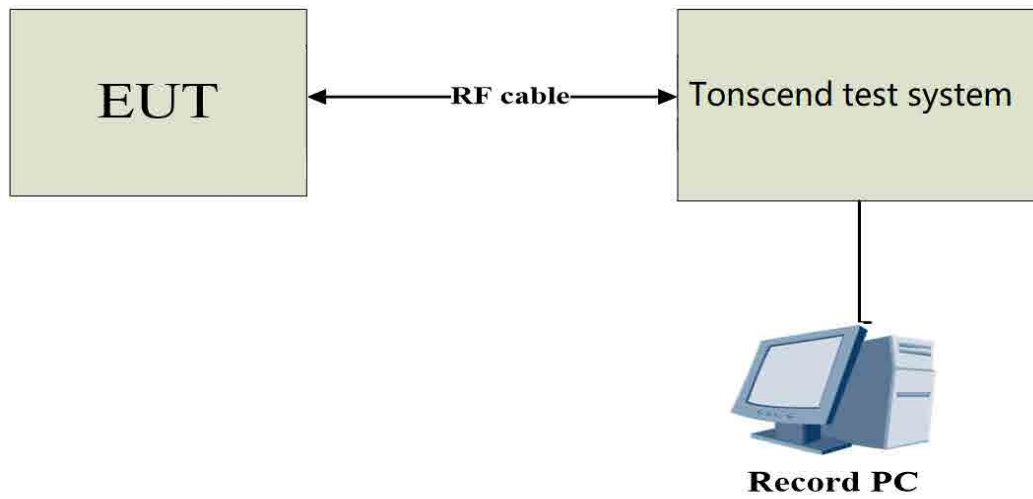
### 3.5.2 Test Procedure

| Test Method                                                                 |                                                  |
|-----------------------------------------------------------------------------|--------------------------------------------------|
| <input checked="" type="radio"/> Conducted Measurement                      | <input type="radio"/> Radiated Measurement       |
| Test Channels                                                               |                                                  |
| <input checked="" type="radio"/> Lowest, Middle and Highest Channel         | <input type="radio"/> Lowest and Highest Channel |
| Environmental conditions                                                    |                                                  |
| <input checked="" type="radio"/> Normal                                     | <input type="radio"/> Normal and Extreme         |
| Note: <input checked="" type="radio"/> :Test <input type="radio"/> :No Test |                                                  |

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below. Spectrum analyser settings as following:

|                  |                                                |
|------------------|------------------------------------------------|
| Centre Frequency | The centre frequency of the channel under test |
| RBW              | = 1 MHz (Band1/2/3); = 300kHz (Band4)          |
| VBW              | $\geq 3 \times \text{RBW}$                     |
| Frequency span   | 2 x Nominal Channel Bandwidth                  |
| Detector Mode    | RMS                                            |
| Trace Mode       | Max Hold                                       |
| Sweep Time       | Auto Couple                                    |

### 3.5.3 Test Setup



### 3.5.4 The Result

| Test Mode  | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|------------------|----------------|---------|
| 11A        | Ant1    | 5180           | -0.50            | ≤11.00         | PASS    |
| 11A        | Ant1    | 5200           | -0.97            | ≤11.00         | PASS    |
| 11A        | Ant1    | 5240           | -1.75            | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5180           | -1.63            | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5200           | -1.62            | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5240           | -1.90            | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5190           | -4.27            | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5230           | -4.77            | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5180           | -1.50            | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5200           | -1.44            | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5240           | -2.14            | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5190           | -3.77            | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5230           | -4.33            | ≤11.00         | PASS    |
| 11AC80SISO | Ant1    | 5210           | -5.93            | ≤11.00         | PASS    |

| Test Mode  | Antenna | Frequency[MHz] | Result [dBm/500kHz] | Limit[dBm/500kHz] | Verdict |
|------------|---------|----------------|---------------------|-------------------|---------|
| 11A        | Ant1    | 5745           | -3.08               | ≤30.00            | PASS    |
| 11A        | Ant1    | 5785           | -3.55               | ≤30.00            | PASS    |
| 11A        | Ant1    | 5825           | -4.90               | ≤30.00            | PASS    |
| 11N20SISO  | Ant1    | 5745           | -3.54               | ≤30.00            | PASS    |
| 11N20SISO  | Ant1    | 5785           | -3.75               | ≤30.00            | PASS    |
| 11N20SISO  | Ant1    | 5825           | -4.87               | ≤30.00            | PASS    |
| 11N40SISO  | Ant1    | 5755           | -5.18               | ≤30.00            | PASS    |
| 11N40SISO  | Ant1    | 5795           | -6.41               | ≤30.00            | PASS    |
| 11AC20SISO | Ant1    | 5745           | -2.96               | ≤30.00            | PASS    |
| 11AC20SISO | Ant1    | 5785           | -3.64               | ≤30.00            | PASS    |
| 11AC20SISO | Ant1    | 5825           | -4.86               | ≤30.00            | PASS    |
| 11AC40SISO | Ant1    | 5755           | -5.12               | ≤30.00            | PASS    |
| 11AC40SISO | Ant1    | 5795           | -6.35               | ≤30.00            | PASS    |
| 11AC80SISO | Ant1    | 5775           | -7.29               | ≤30.00            | PASS    |

Note: The Duty Cycle Factor and line loss are compensated in the test system

For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 300kHz and VBW at 1500kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add 10 log (500 kHz/300 kHz) to the measured result, i.e. 2.22 dB.

During the test of U-NII 3 PSD, the measurement result with RBW=300kHz has been added 2.22 dB by compensating offset, offset=cable loss+duty cycle factor+10log(500kHz/300kHz).



11A-Ant1-5180-PASS



11A-Ant1-5200-PASS



11A-Ant1-5240-PASS



11A-Ant1-5745-PASS



11A-Ant1-5785-PASS



11A-Ant1-5825-PASS



11N20SISO-Ant1-5180-PASS



11N20SISO-Ant1-5200-PASS



11N20SISO-Ant1-5240-PASS



11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5785-PASS



11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5190-PASS



11N40SISO-Ant1-5230-PASS



11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS



11AC20SISO-Ant1-5180-PASS



11AC20SISO-Ant1-5200-PASS



11AC20SISO-Ant1-5240-PASS



11AC20SISO-Ant1-5745-PASS



11AC20SISO-Ant1-5785-PASS



11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5190-PASS



11AC40SISO-Ant1-5230-PASS



11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS



11AC80SISO-Ant1-5210-PASS



11AC80SISO-Ant1-5775-PASS

## Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

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(END OF REPORT)