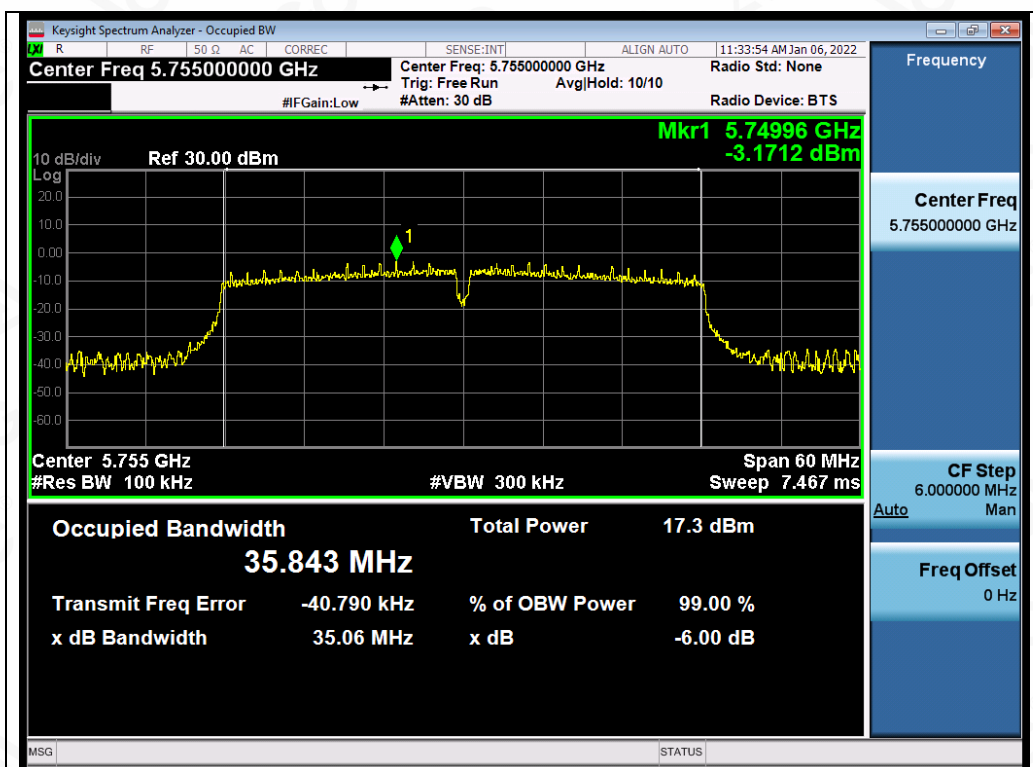
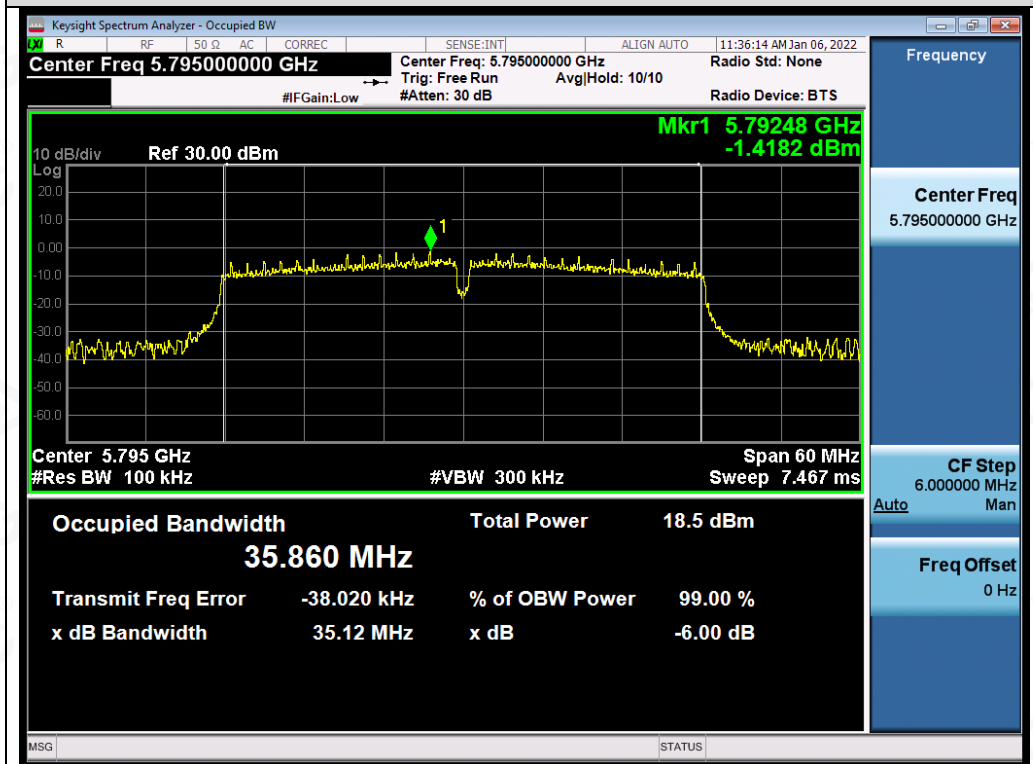




Test\_Graph\_802.11n40\_ANT1\_5755\_MCS0\_DTSBW

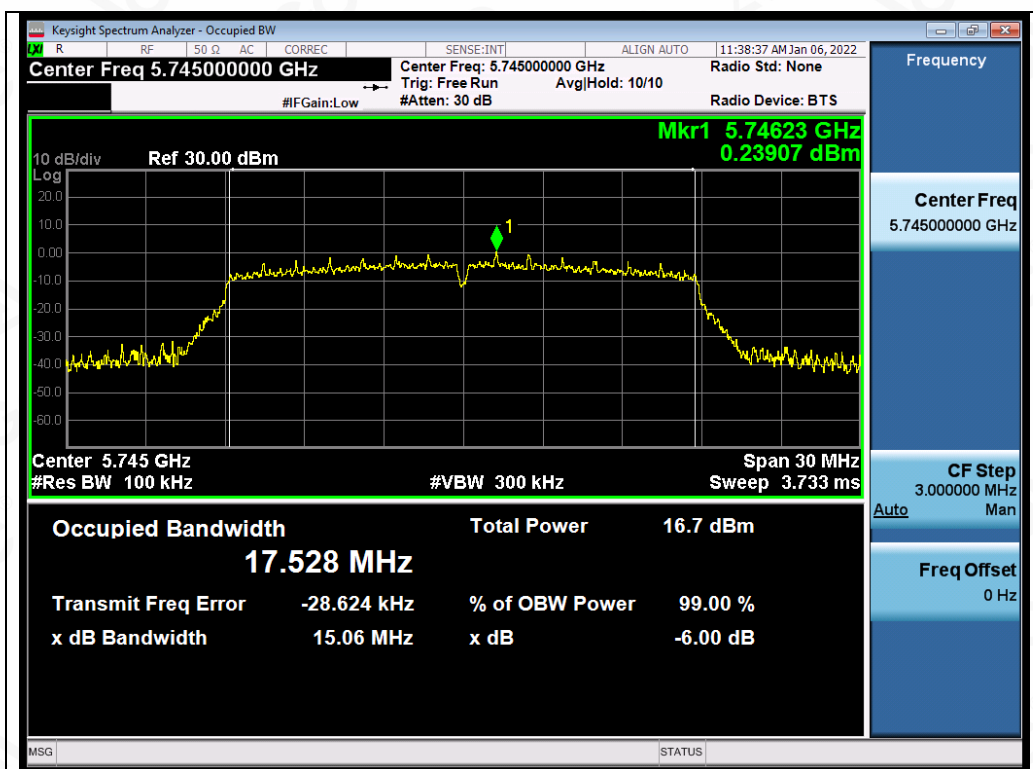


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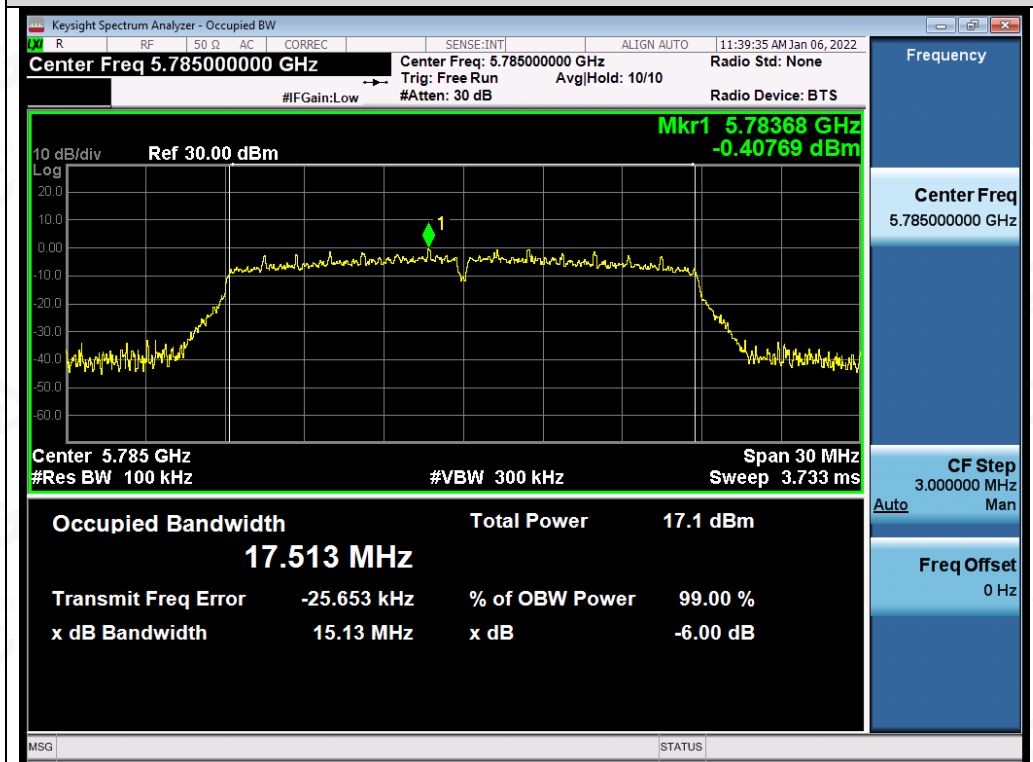
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Test\_Graph\_802.11ac20\_ANT1\_5745\_MCS0\_DTSBW

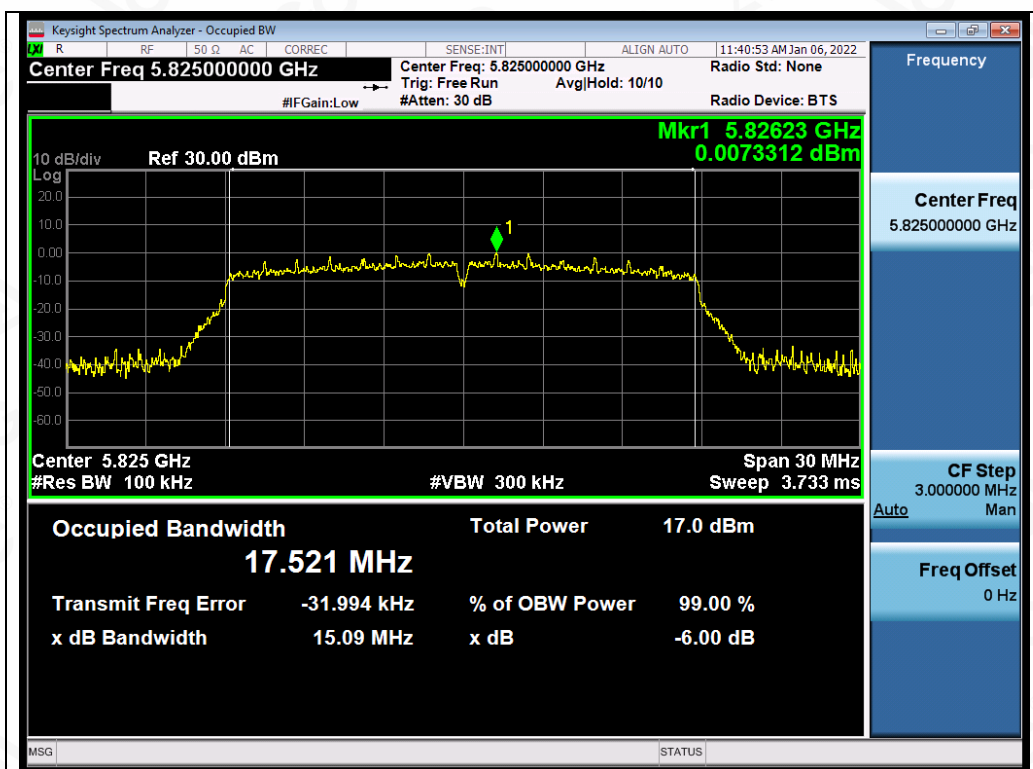


Test\_Graph\_802.11ac20\_ANT1\_5785\_MCS0\_DTSBW

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Test\_Graph\_802.11ac20\_ANT1\_5825\_MCS9\_DTSBW

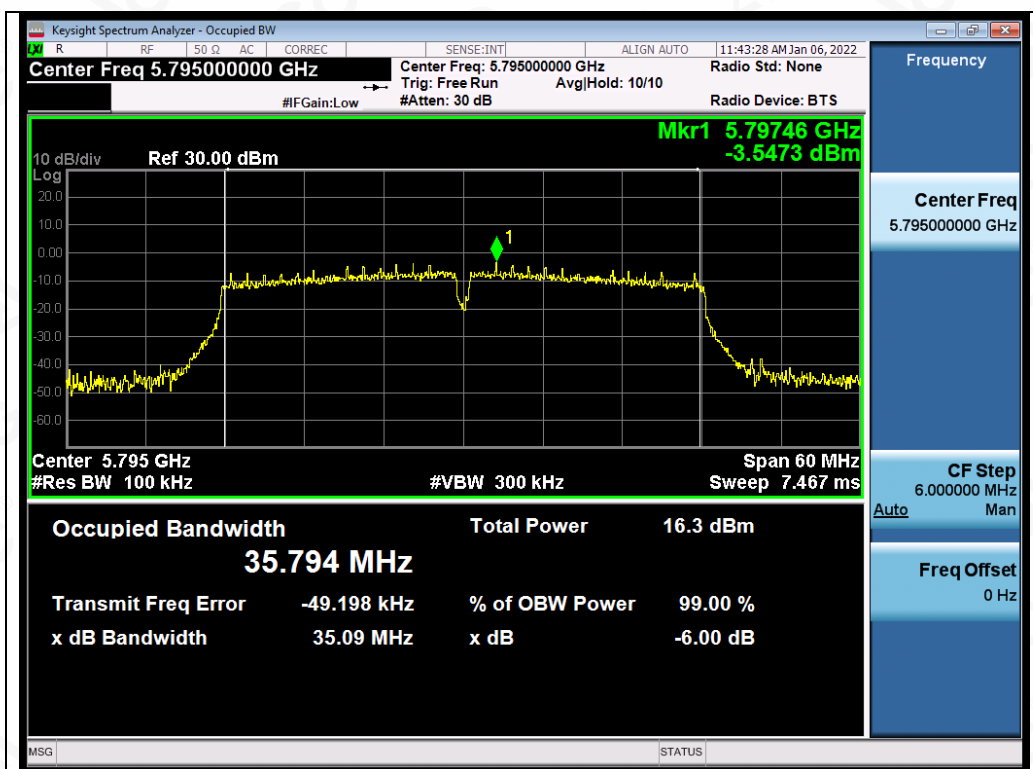


Test\_Graph\_802.11ac40\_ANT1\_5755\_MCS9\_DTSBW

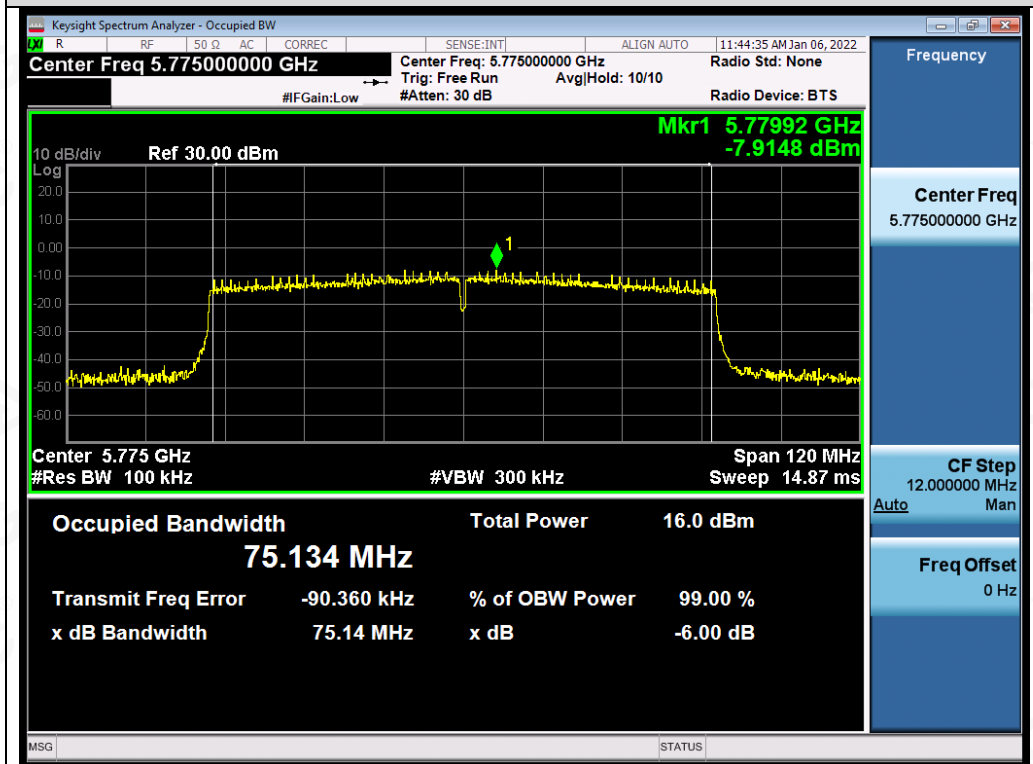
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Test\_Graph\_802.11ac40\_ANT1\_5795\_MCS9\_DTSBW



Test\_Graph\_802.11ac80\_ANT1\_5775\_MCS9\_DTSBW

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## 9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

### 9.1. MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 8.2.

### 9.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

### 9.4. LIMITS AND MEASUREMENT RESULT

| Test Data of Conducted Output Power Density for band 5.15-5.25 GHz |                    |                                 |                  |              |
|--------------------------------------------------------------------|--------------------|---------------------------------|------------------|--------------|
| Test Mode                                                          | Test Channel (MHz) | Average Power Density (dBm/MHz) | Limits (dBm/MHz) | Pass or Fail |
| 802.11a                                                            | 5180               | 2.108                           | 11               | Pass         |
|                                                                    | 5200               | 1.999                           | 11               | Pass         |
|                                                                    | 5240               | 1.648                           | 11               | Pass         |
| 802.11n20                                                          | 5180               | 2.400                           | 11               | Pass         |
|                                                                    | 5200               | 2.105                           | 11               | Pass         |
|                                                                    | 5240               | 1.986                           | 11               | Pass         |
| 802.11n40                                                          | 5190               | -1.458                          | 11               | Pass         |
|                                                                    | 5230               | -1.824                          | 11               | Pass         |
| 802.11ac20                                                         | 5180               | 1.285                           | 11               | Pass         |
|                                                                    | 5200               | 1.164                           | 11               | Pass         |
|                                                                    | 5240               | 0.835                           | 11               | Pass         |
| 802.11ac40                                                         | 5190               | -1.338                          | 11               | Pass         |
|                                                                    | 5230               | -2.086                          | 11               | Pass         |
| 802.11ac80                                                         | 5210               | -5.453                          | 11               | Pass         |

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| Test Data of Conducted Output Power Density for band 5.15-5.25 GHz |                    |                                 |                  |              |
|--------------------------------------------------------------------|--------------------|---------------------------------|------------------|--------------|
| Test Mode                                                          | Test Channel (MHz) | Average Power Density (dBm/MHz) | Limits (dBm/MHz) | Pass or Fail |
| 802.11a                                                            | 5260               | 2.235                           | 11               | Pass         |
|                                                                    | 5300               | 2.766                           | 11               | Pass         |
|                                                                    | 5320               | 2.972                           | 11               | Pass         |
| 802.11n20                                                          | 5260               | 1.723                           | 11               | Pass         |
|                                                                    | 5300               | 2.509                           | 11               | Pass         |
|                                                                    | 5320               | 2.778                           | 11               | Pass         |
| 802.11n40                                                          | 5270               | -1.593                          | 11               | Pass         |
|                                                                    | 5310               | -2.026                          | 11               | Pass         |
| 802.11ac20                                                         | 5260               | -0.184                          | 11               | Pass         |
|                                                                    | 5300               | 0.626                           | 11               | Pass         |
|                                                                    | 5320               | 0.715                           | 11               | Pass         |
| 802.11ac40                                                         | 5270               | -2.576                          | 11               | Pass         |
|                                                                    | 5310               | -2.163                          | 11               | Pass         |
| 802.11ac80                                                         | 5290               | -4.896                          | 11               | Pass         |

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| Test Data of Conducted Output Power Density for band 5.725-5.85 GHz |                    |                                    |                     |              |
|---------------------------------------------------------------------|--------------------|------------------------------------|---------------------|--------------|
| Test Mode                                                           | Test Channel (MHz) | Average Power Density (dBm/500kHz) | Limits (dBm/500kHz) | Pass or Fail |
| 802.11a                                                             | 5745               |                                    | 30                  | Pass         |
|                                                                     | 5785               |                                    | 30                  | Pass         |
|                                                                     | 5825               |                                    | 30                  | Pass         |
| 802.11n20                                                           | 5745               |                                    | 30                  | Pass         |
|                                                                     | 5785               |                                    | 30                  | Pass         |
|                                                                     | 5825               |                                    | 30                  | Pass         |
| 802.11n40                                                           | 5755               |                                    | 30                  | Pass         |
|                                                                     | 5795               |                                    | 30                  | Pass         |
| 802.11ac20                                                          | 5745               |                                    | 30                  | Pass         |
|                                                                     | 5785               |                                    | 30                  | Pass         |
|                                                                     | 5825               |                                    | 30                  | Pass         |
| 802.11ac40                                                          | 5755               |                                    | 30                  | Pass         |
|                                                                     | 5795               |                                    | 30                  | Pass         |
| 802.11ac80                                                          | 5775               |                                    | 30                  | Pass         |

| Test Data of Conducted Output Power Density for band 5.725-5.85 GHz |                    |                                    |                                    |                     |              |
|---------------------------------------------------------------------|--------------------|------------------------------------|------------------------------------|---------------------|--------------|
| Test Mode                                                           | Test Channel (MHz) | Average Power Density (dBm/100kHz) | Average Power Density (dBm/500kHz) | Limits (dBm/500kHz) | Pass or Fail |
| 802.11a                                                             | 5745               | -5.967                             | 1.023                              | 30                  | Pass         |
|                                                                     | 5785               | -5.51                              | 1.480                              | 30                  | Pass         |
|                                                                     | 5825               | -5.691                             | 1.299                              | 30                  | Pass         |
| 802.11n20                                                           | 5745               | -6.292                             | 0.698                              | 30                  | Pass         |
|                                                                     | 5785               | -5.869                             | 1.121                              | 30                  | Pass         |
|                                                                     | 5825               | -5.721                             | 1.269                              | 30                  | Pass         |
| 802.11n40                                                           | 5755               | -10.071                            | -3.081                             | 30                  | Pass         |
|                                                                     | 5795               | -8.53                              | -1.540                             | 30                  | Pass         |
| 802.11ac20                                                          | 5745               | -8.097                             | -1.107                             | 30                  | Pass         |
|                                                                     | 5785               | -7.764                             | -0.774                             | 30                  | Pass         |
|                                                                     | 5825               | -7.878                             | -0.888                             | 30                  | Pass         |
| 802.11ac40                                                          | 5755               | -10.967                            | -3.977                             | 30                  | Pass         |
|                                                                     | 5795               | -10.808                            | -3.818                             | 30                  | Pass         |
| 802.11ac80                                                          | 5775               | -13.273                            | -6.283                             | 30                  | Pass         |

Note:1. Power density(dBm/500kHz) = Power density(dBm/100kHz) +10\*log(500/100).

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### Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_PSD

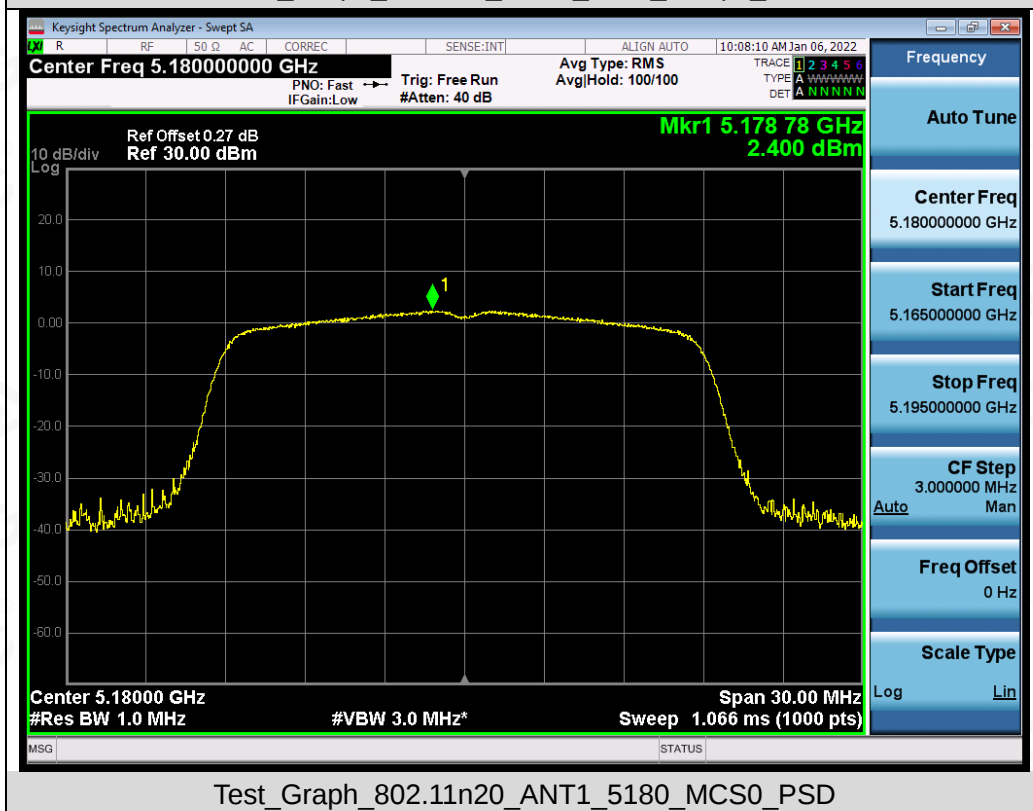


Test\_Graph\_802.11a\_ANT1\_5200\_6Mbps\_PSD

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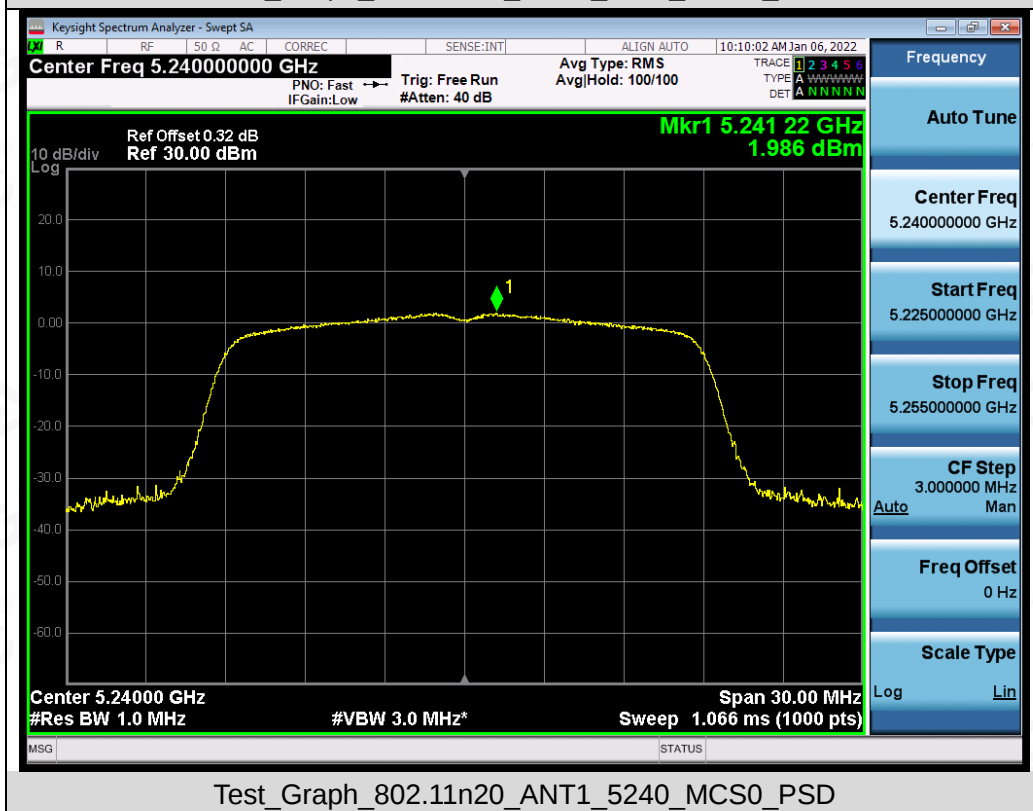
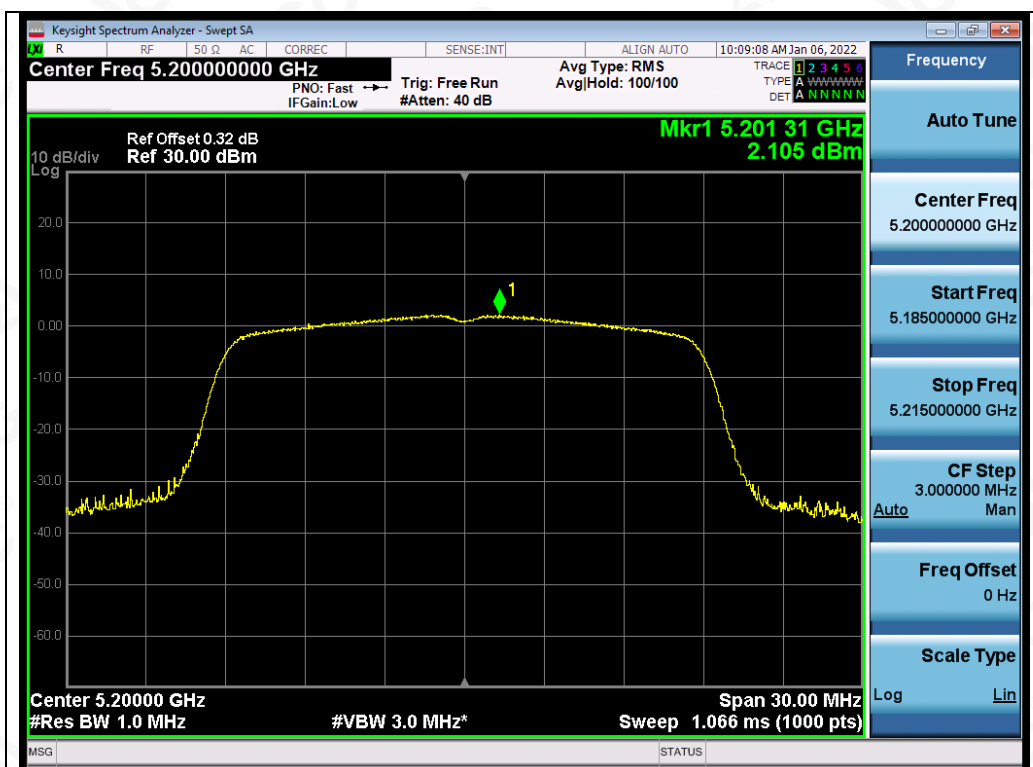




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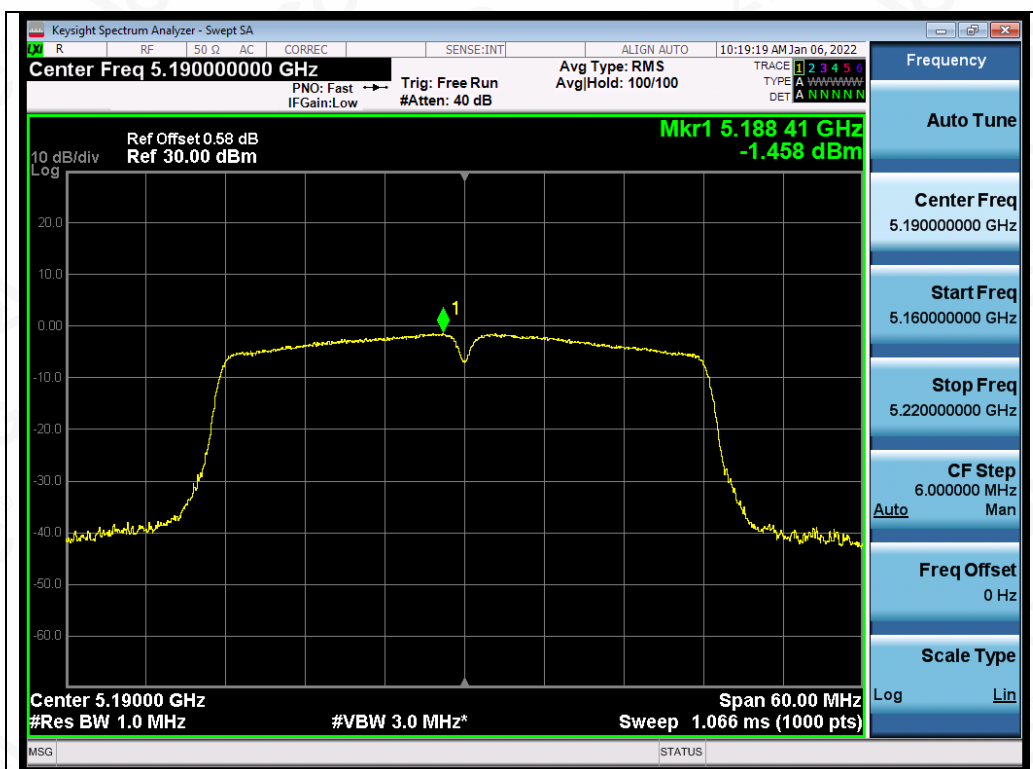




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Test\_Graph\_802.11n40\_ANT1\_5190\_MCS0\_PSD

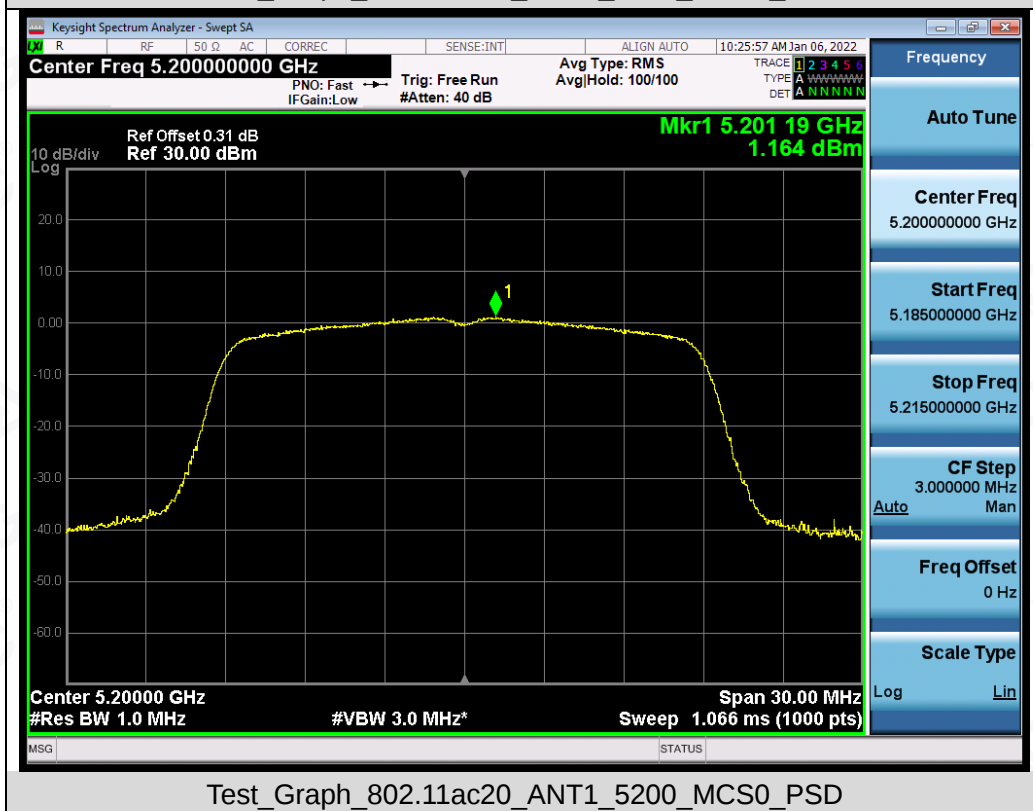


Test\_Graph\_802.11n40\_ANT1\_5230\_MCS0\_PSD

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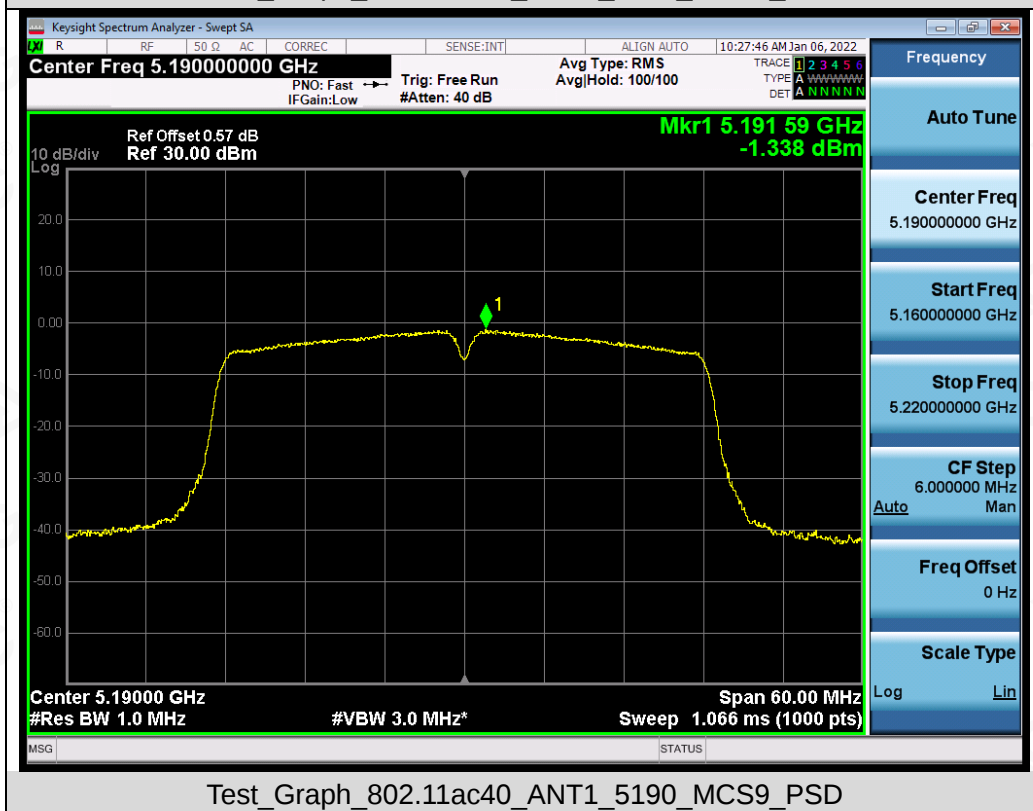
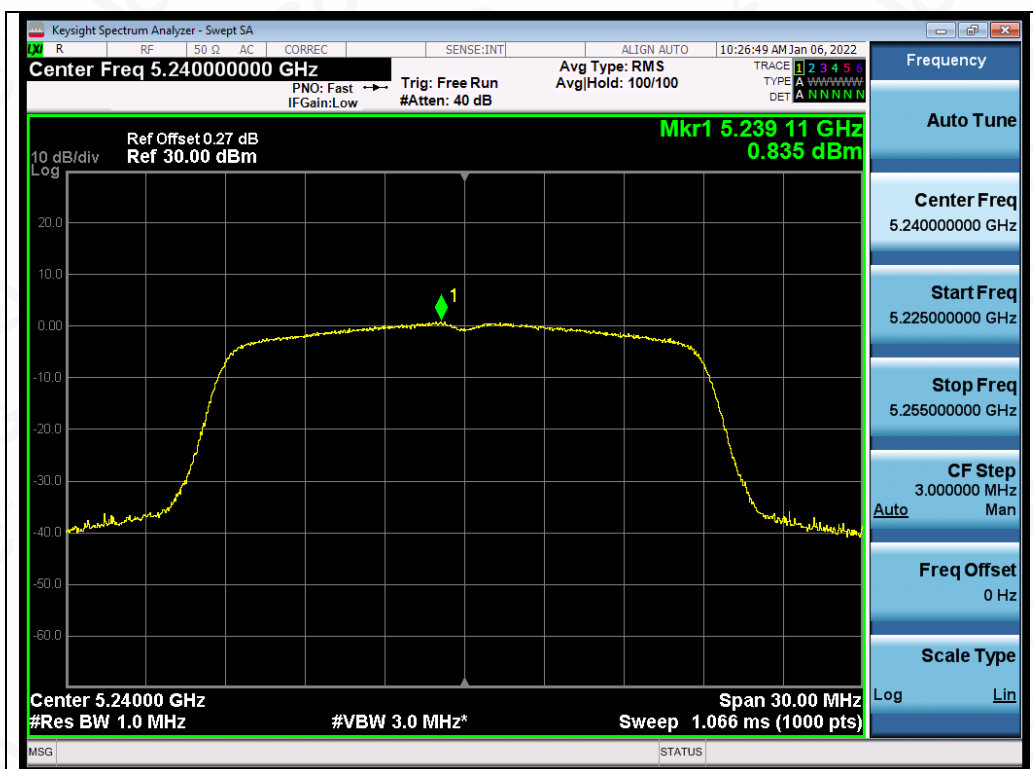




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Test\_Graph\_802.11ac40\_ANT1\_5230\_MCS9\_PSD



Test\_Graph\_802.11ac80\_ANT1\_5210\_MCS9\_PSD

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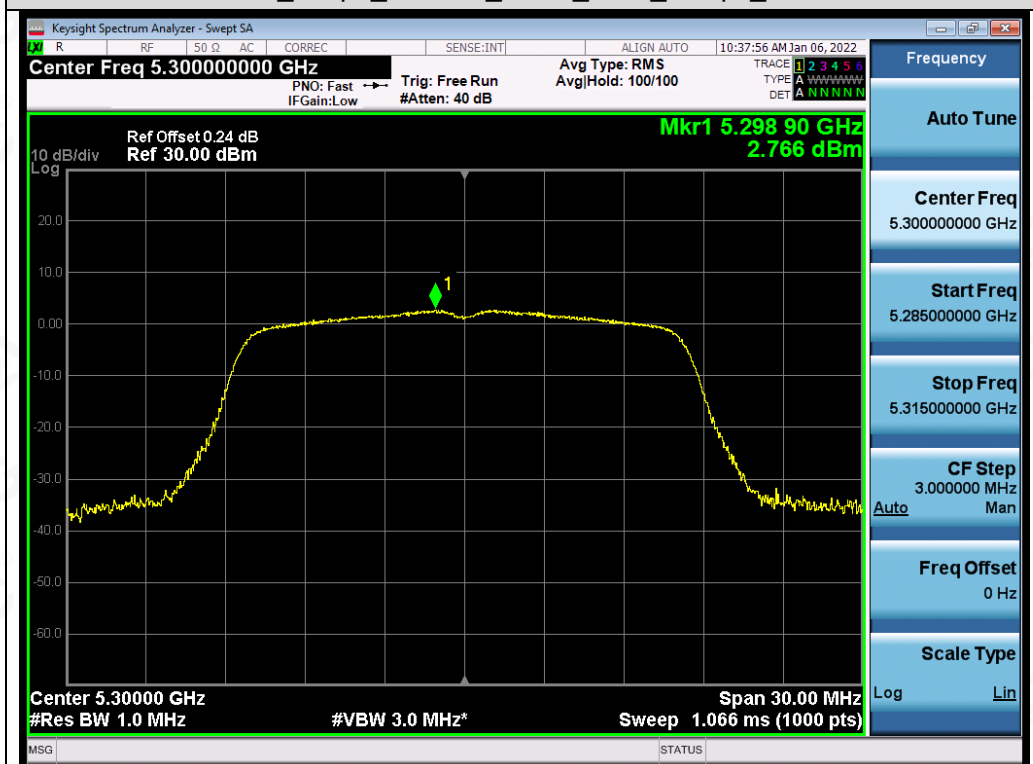
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### Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz



Test\_Graph\_802.11a\_ANT1\_5260\_6Mbps\_PSD

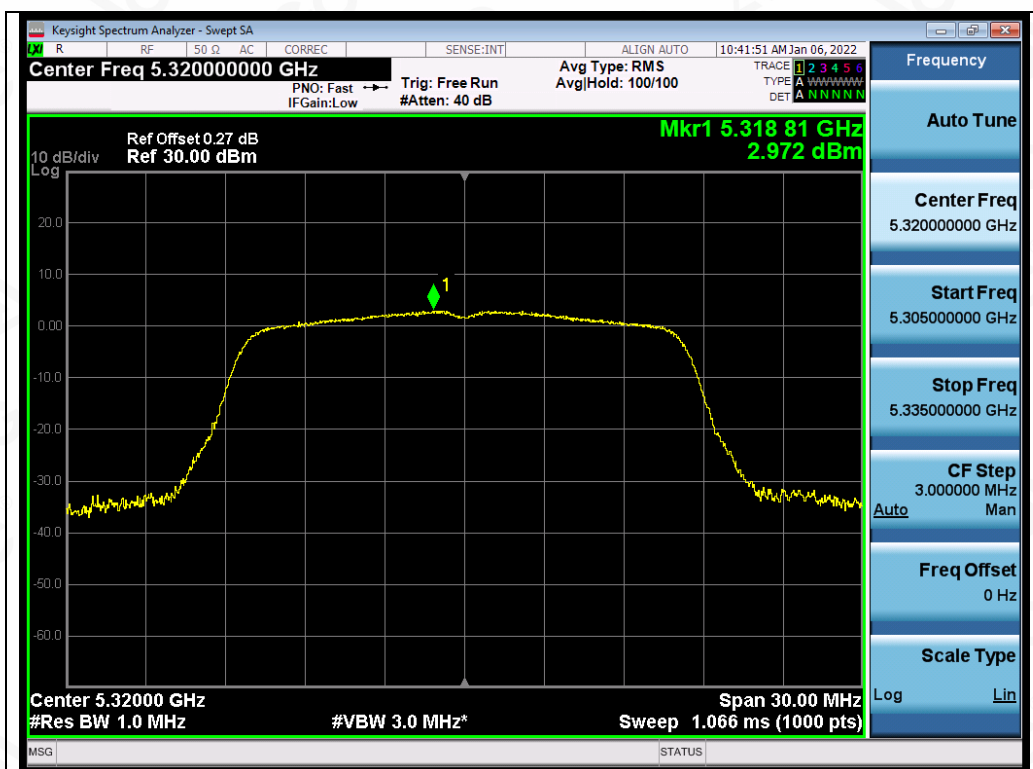


Test\_Graph\_802.11a\_ANT1\_5300\_6Mbps\_PSD

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Test\_Graph\_802.11a\_ANT1\_5320\_6Mbps\_PSD

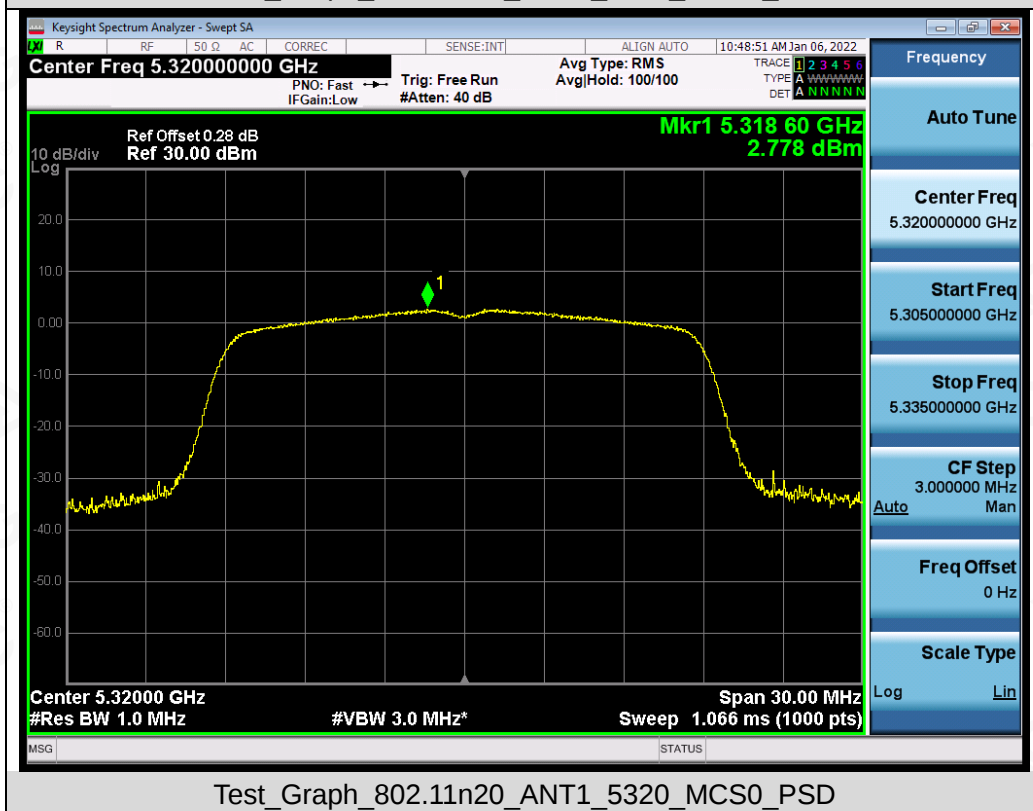


Test\_Graph\_802.11n20\_ANT1\_5260\_MCS0\_PSD

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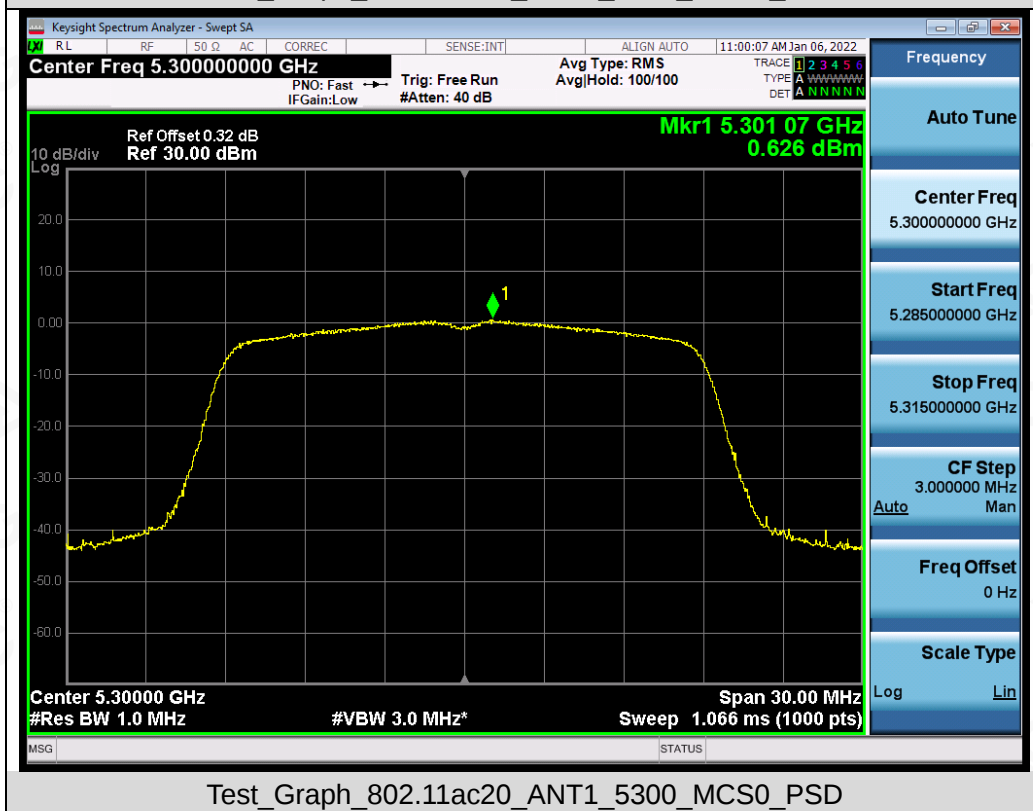
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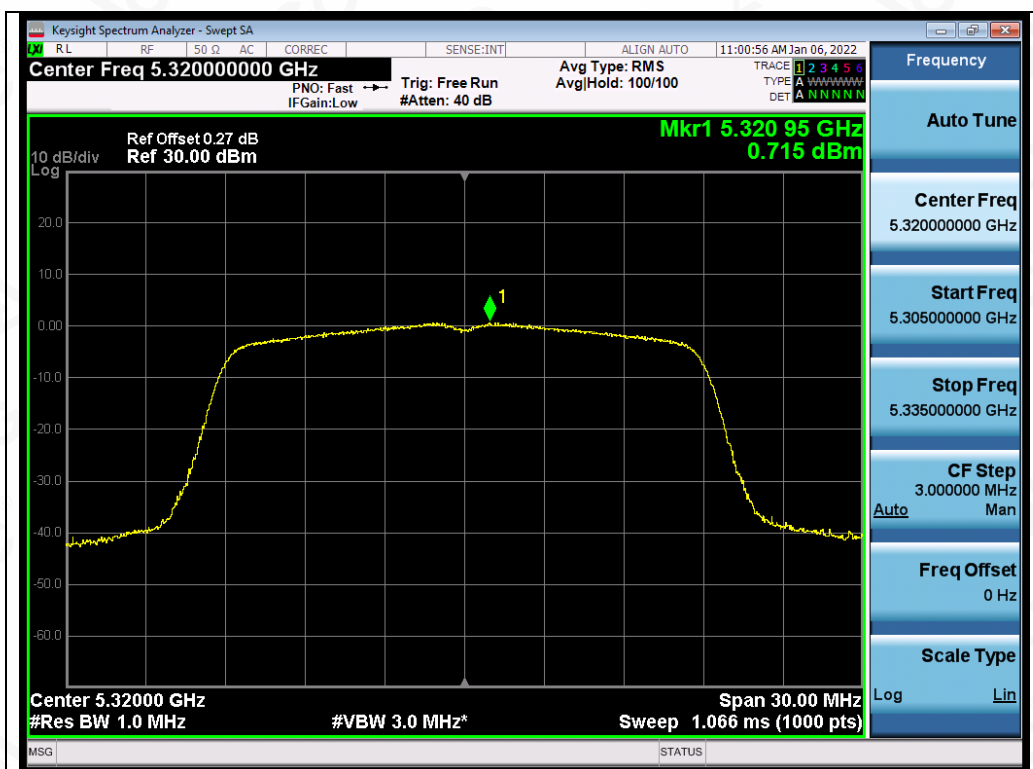




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Test\_Graph\_802.11ac20\_ANT1\_5320\_MCS9\_PSD



Test\_Graph\_802.11ac40\_ANT1\_5270\_MCS9\_PSD

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Test\_Graph\_802.11ac40\_ANT1\_5310\_MCS9\_PSD



Test\_Graph\_802.11ac80\_ANT1\_5290\_MCS9\_PSD

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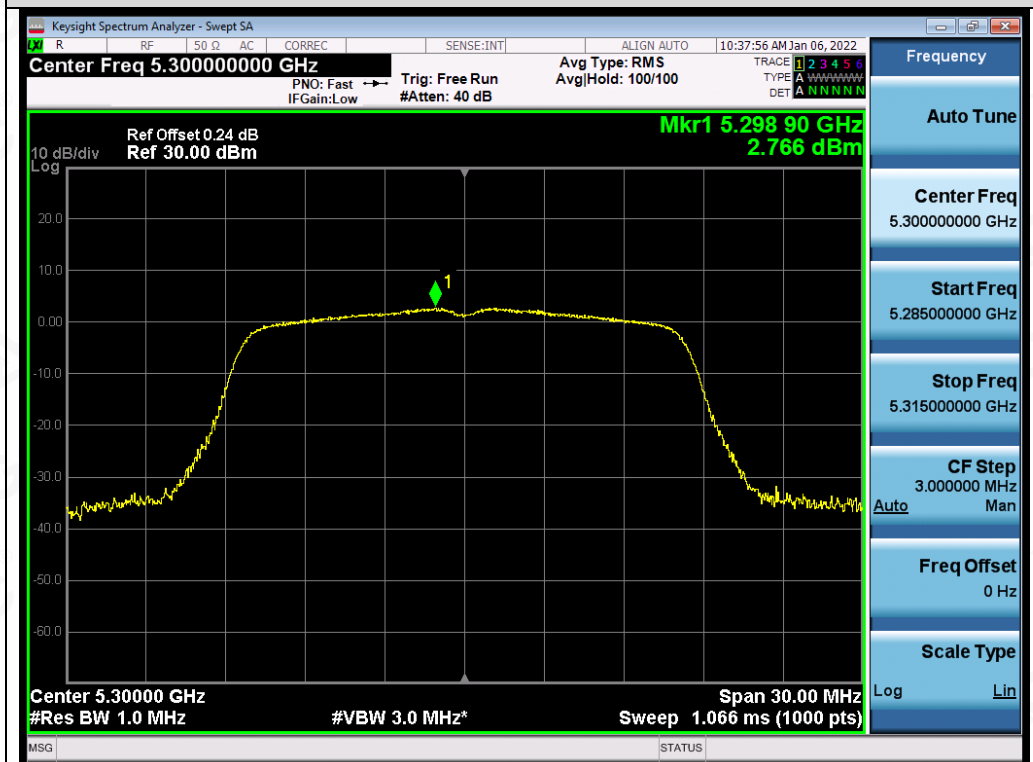
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### Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz



Test\_Graph\_802.11a\_ANT1\_5260\_6Mbps\_PSD

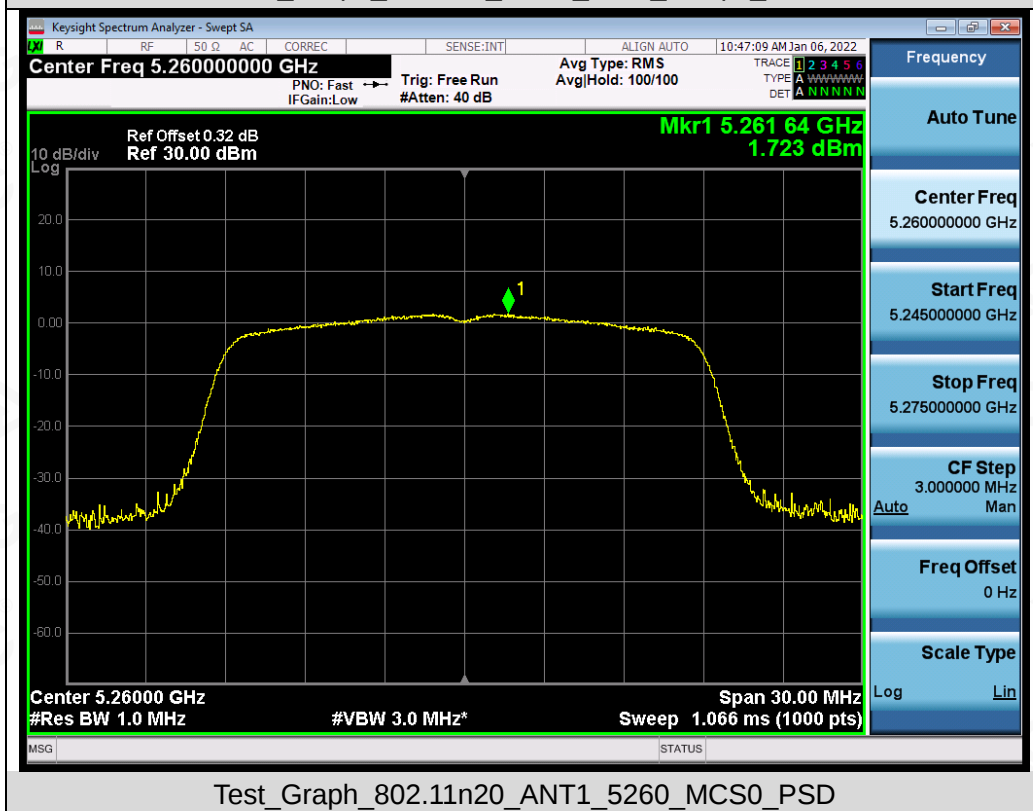
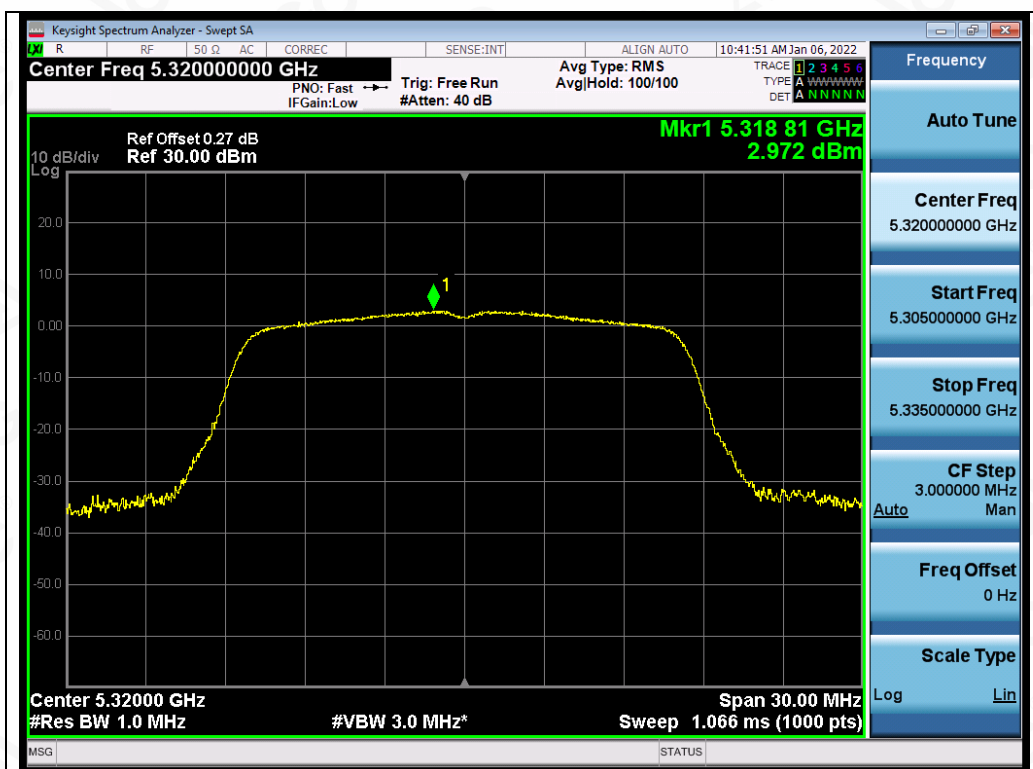


Test\_Graph\_802.11a\_ANT1\_5300\_6Mbps\_PSD

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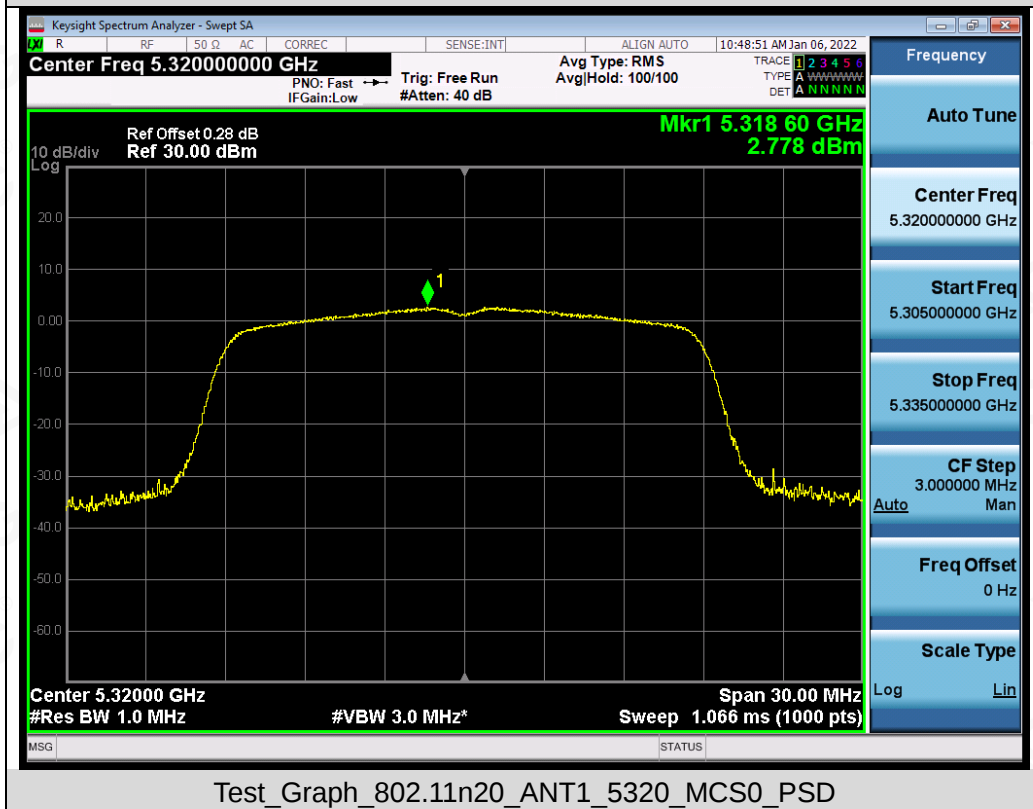
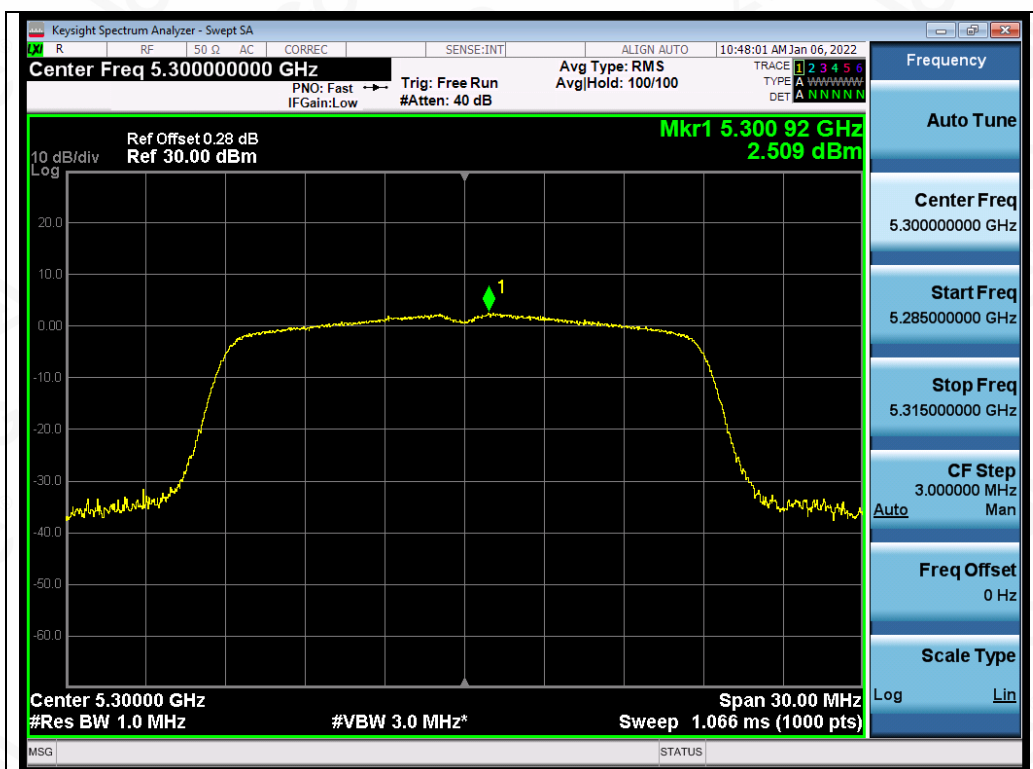




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Test\_Graph\_802.11n40\_ANT1\_5270\_MCS0\_PSD

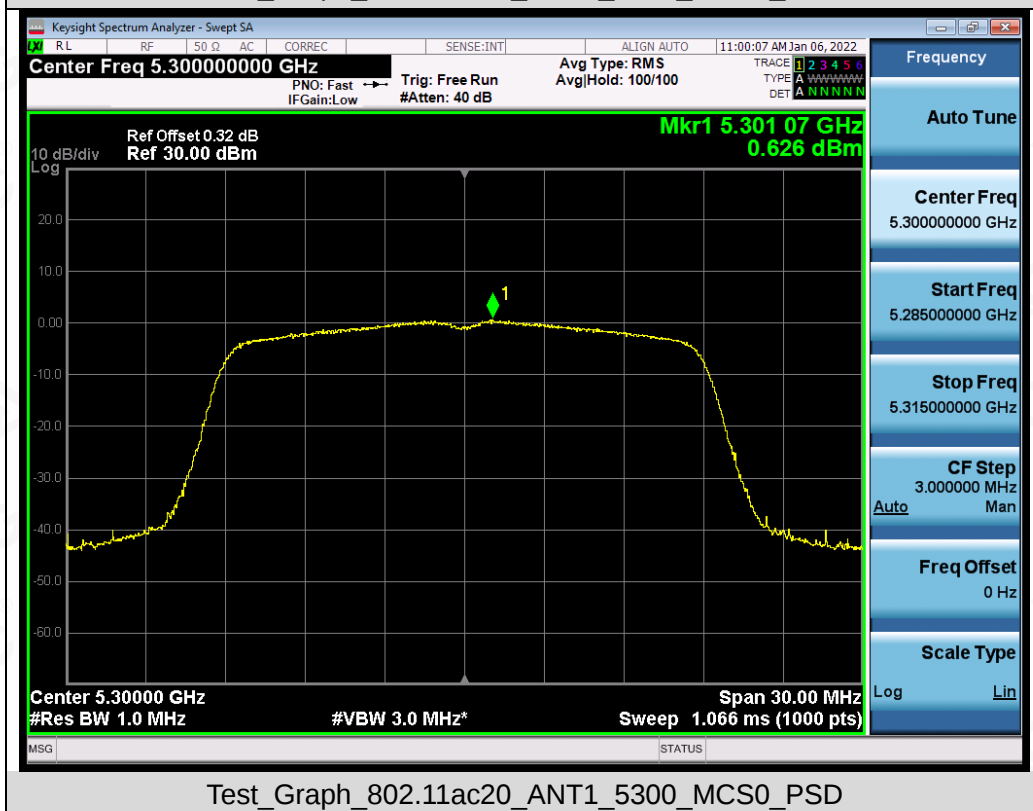


Test\_Graph\_802.11n40\_ANT1\_5310\_MCS0\_PSD

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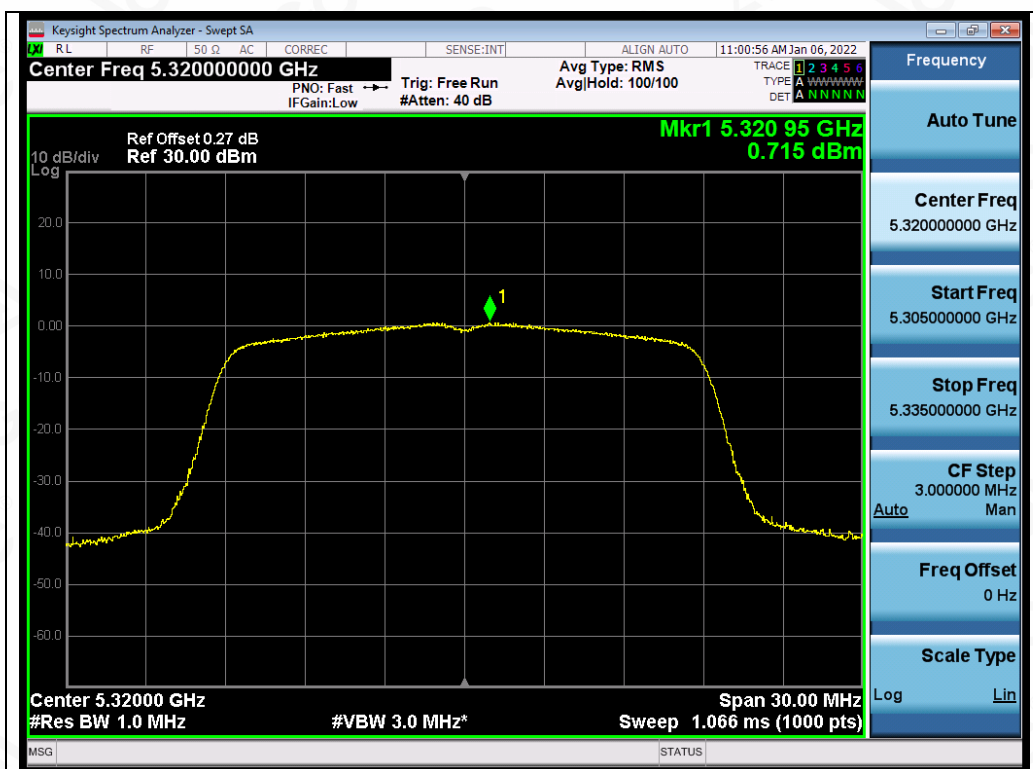




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Test\_Graph\_802.11ac20\_ANT1\_5320\_MCS9\_PSD



Test\_Graph\_802.11ac40\_ANT1\_5270\_MCS9\_PSD

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Test\_Graph\_802.11ac40\_ANT1\_5310\_MCS9\_PSD



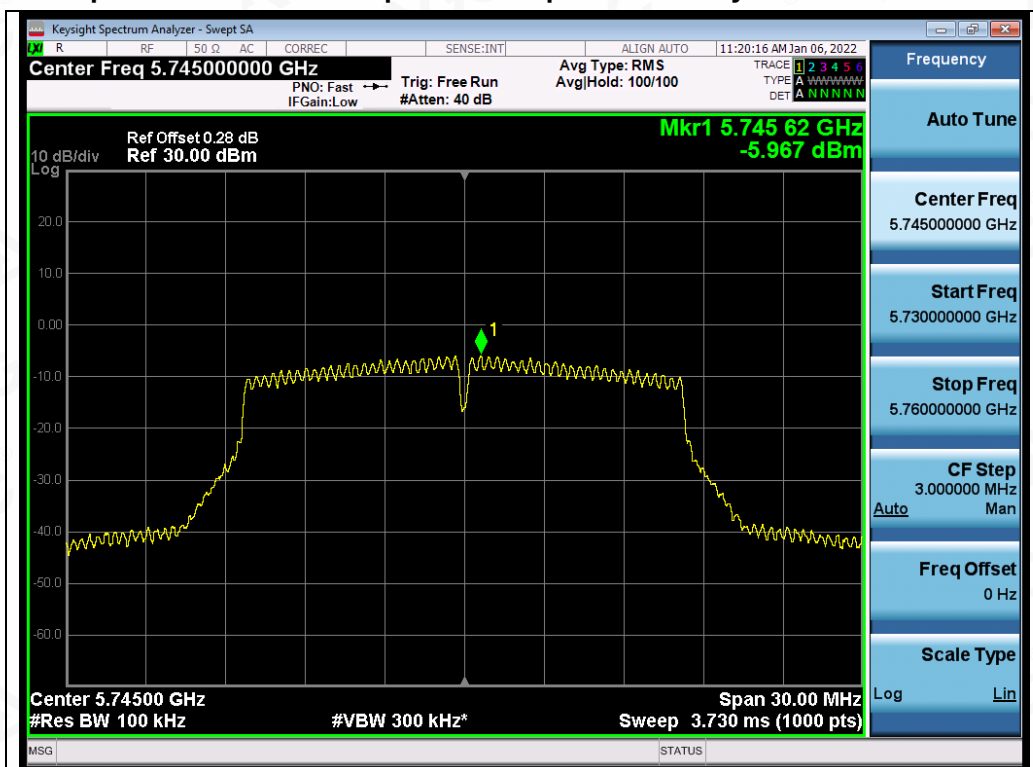
Test\_Graph\_802.11ac80\_ANT1\_5290\_MCS9\_PSD

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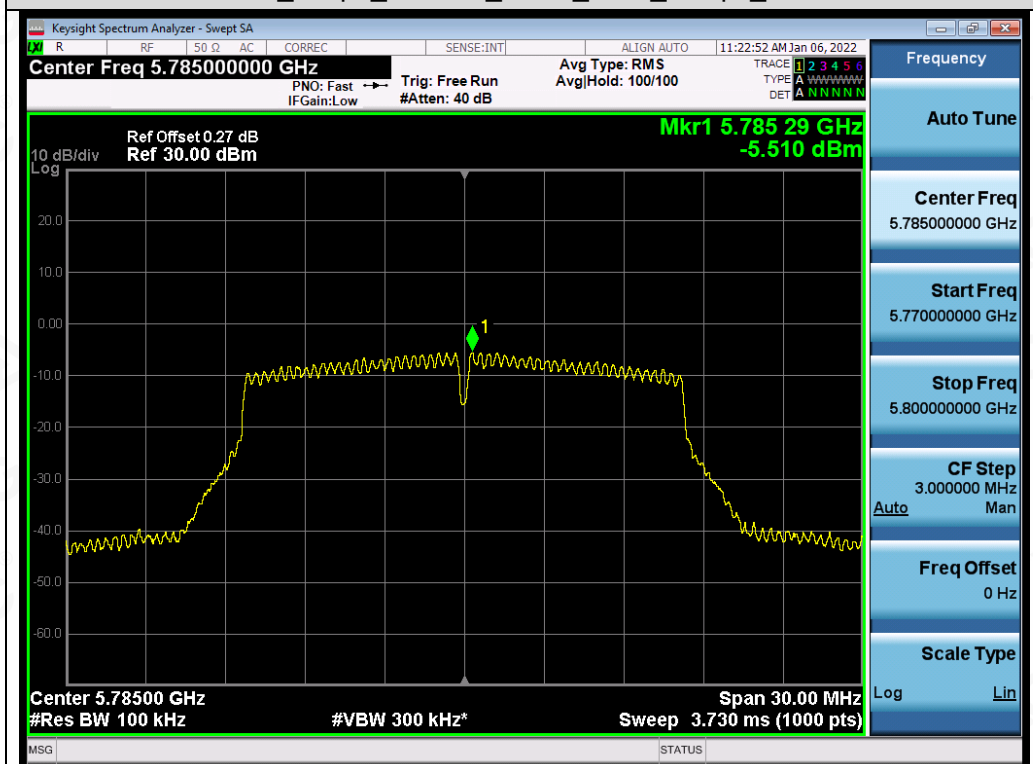
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### Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



Test\_Graph\_802.11a\_ANT1\_5745\_6Mbps\_PSD

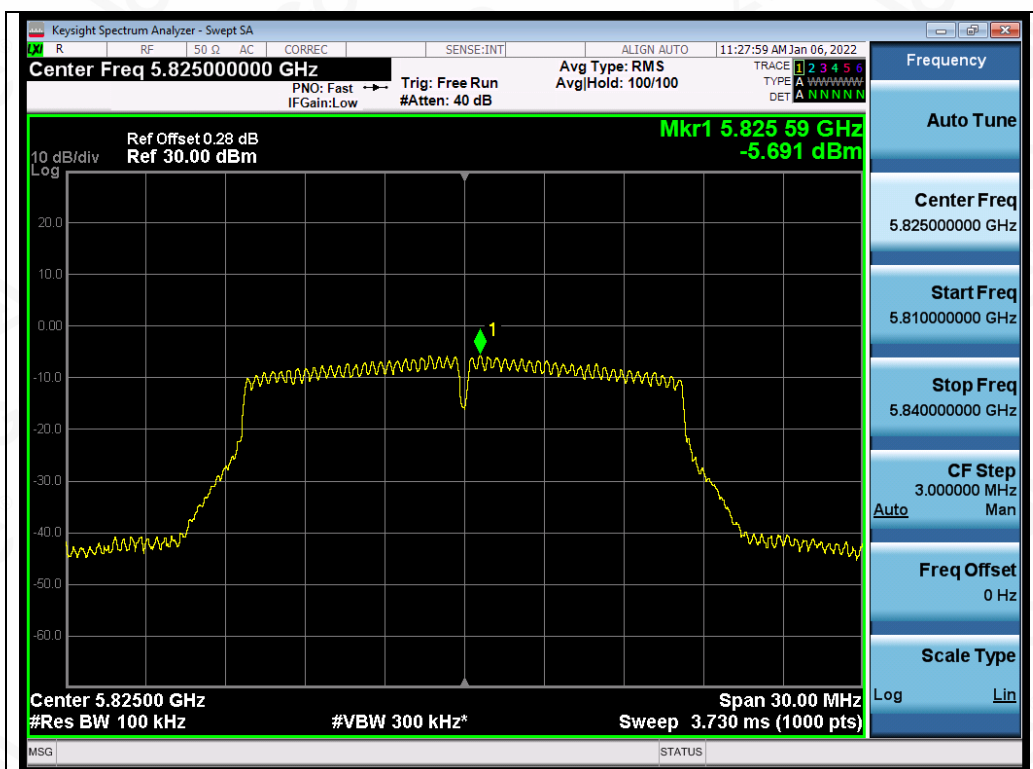


Test\_Graph\_802.11a\_ANT1\_5785\_6Mbps\_PSD

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Test\_Graph\_802.11a\_ANT1\_5825\_6Mbps\_PSD

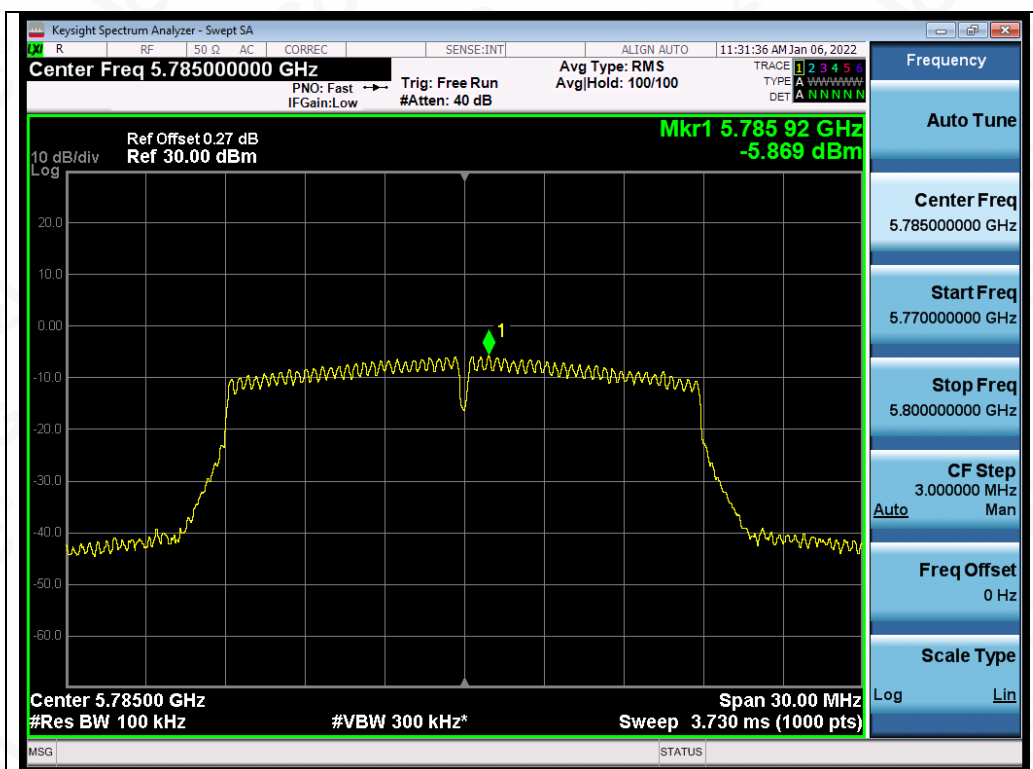


Test\_Graph\_802.11n20\_ANT1\_5745\_MCS0\_PSD

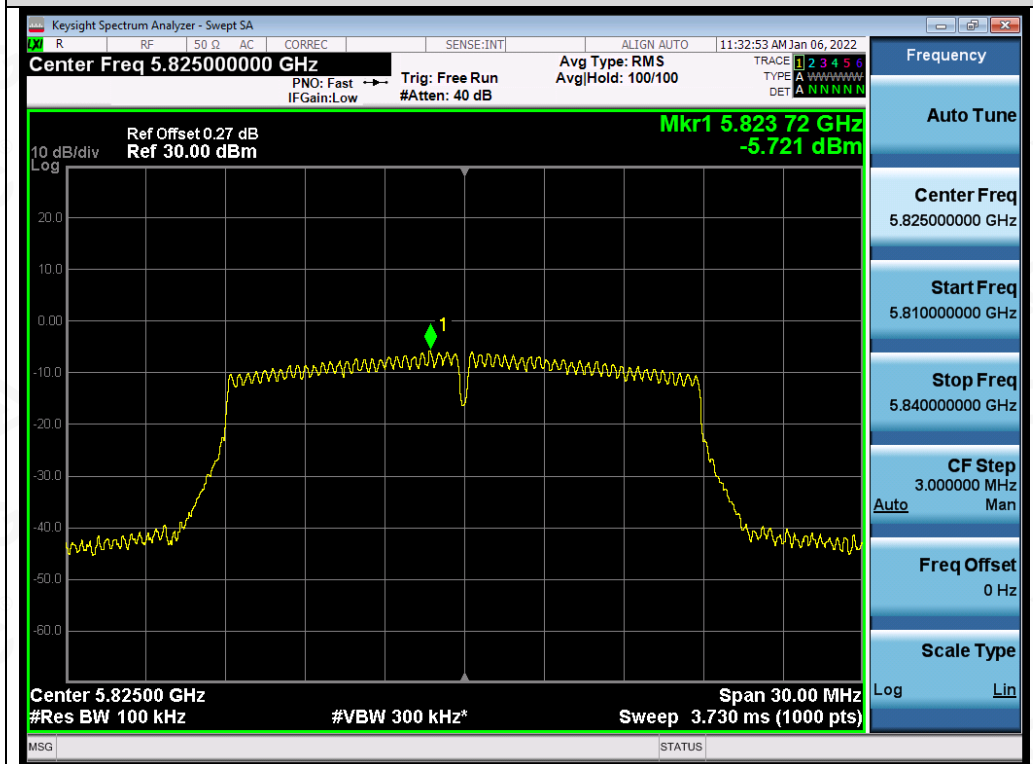
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Test\_Graph\_802.11n20\_ANT1\_5785\_MCS0\_PSD

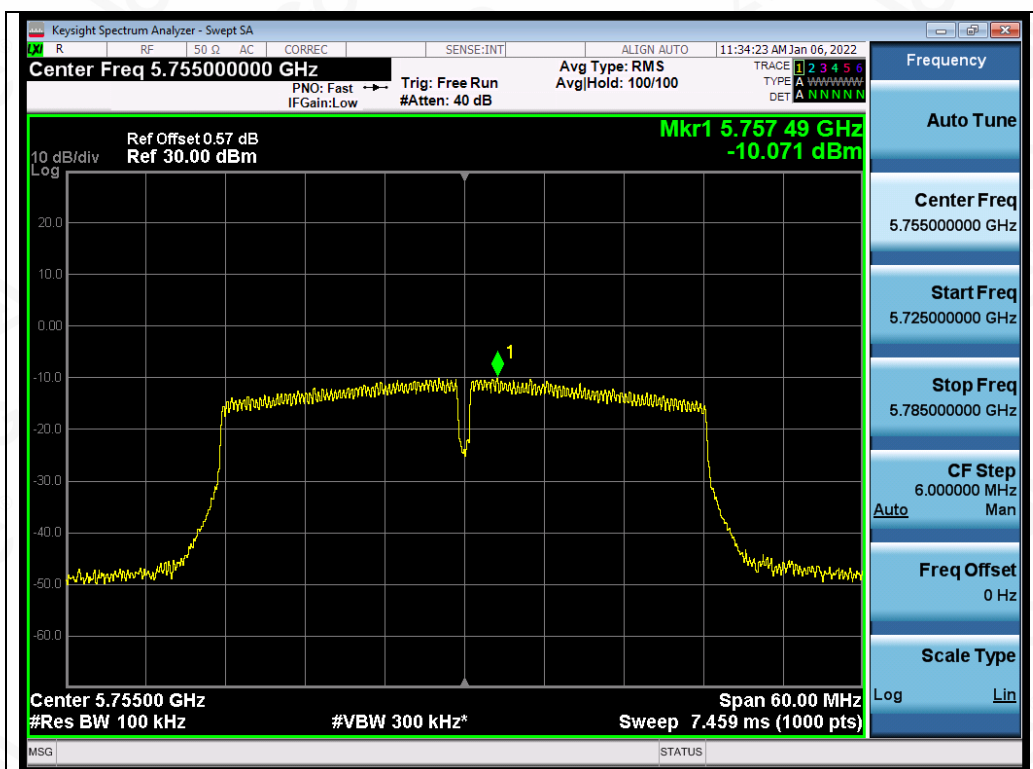


Test\_Graph\_802.11n20\_ANT1\_5825\_MCS0\_PSD

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Test\_Graph\_802.11n40\_ANT1\_5755\_MCS0\_PSD

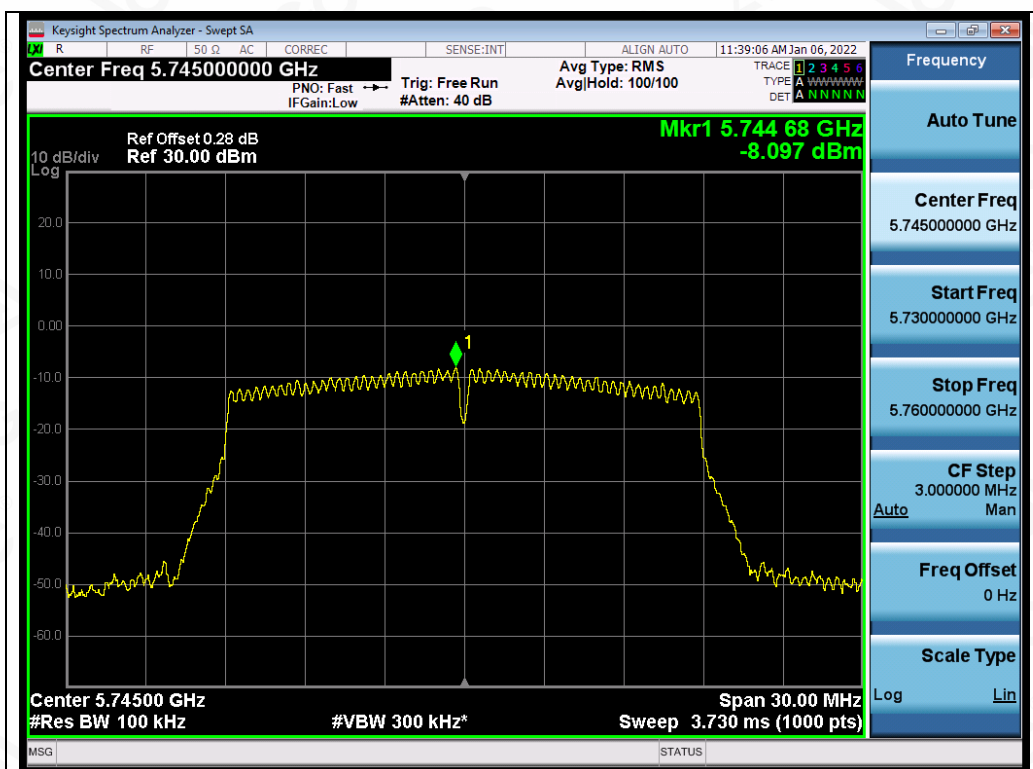


Test\_Graph\_802.11n40\_ANT1\_5795\_MCS0\_PSD

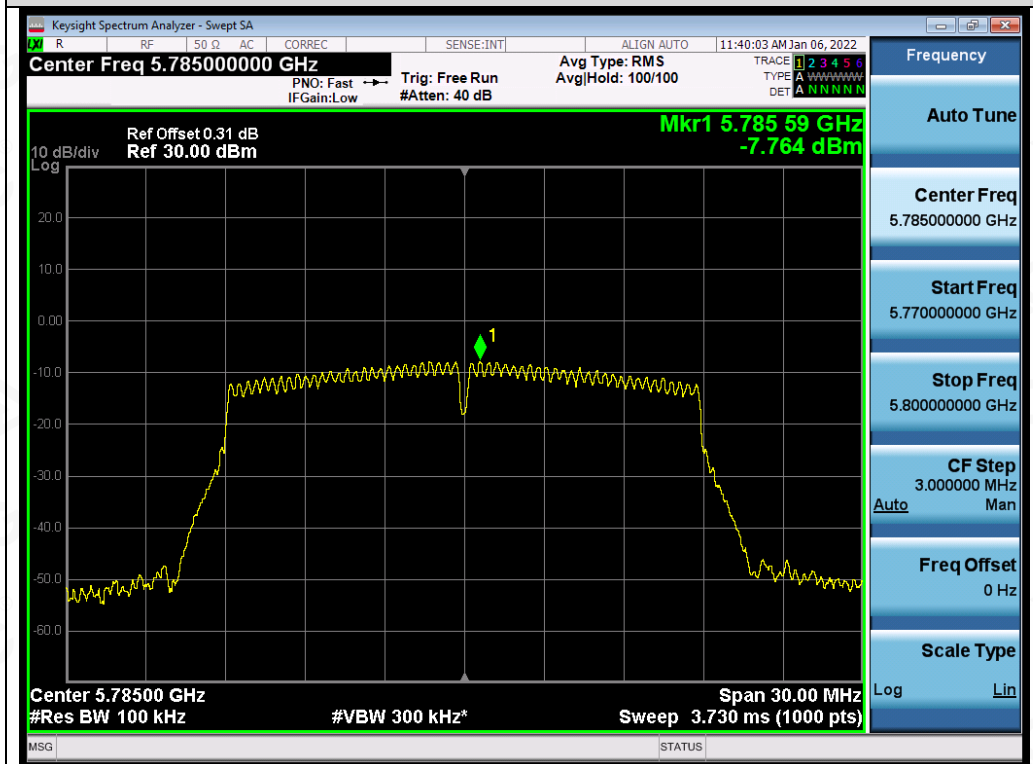
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Test\_Graph\_802.11ac20\_ANT1\_5745\_MCS0\_PSD

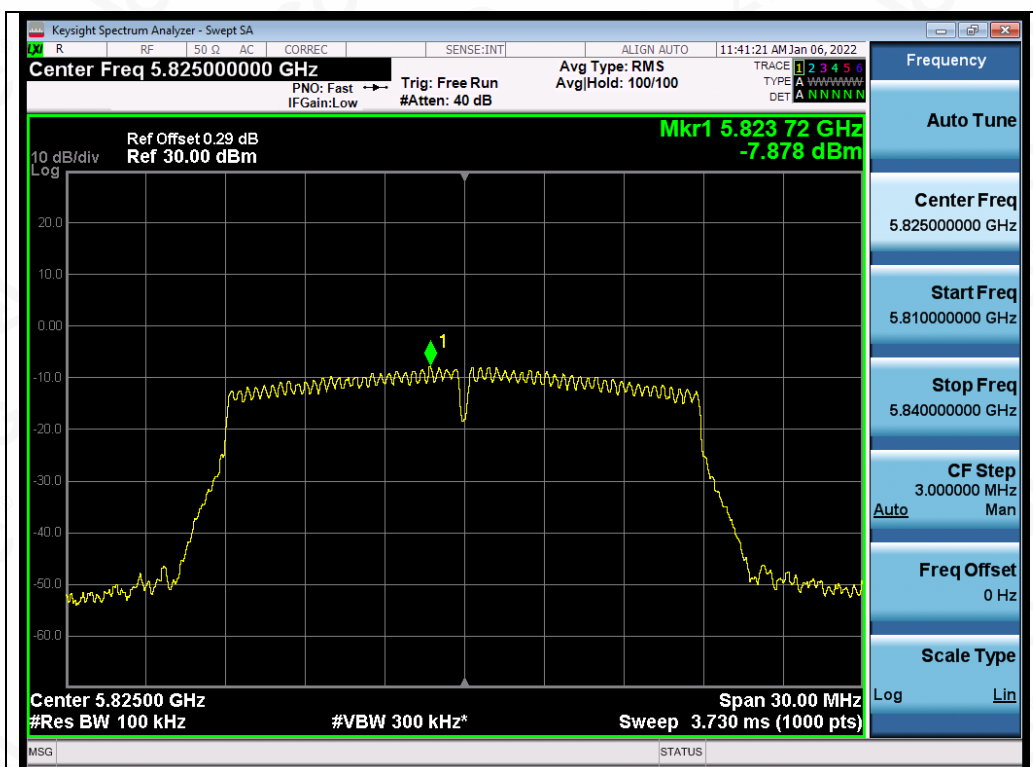


Test\_Graph\_802.11ac20\_ANT1\_5785\_MCS0\_PSD

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Test\_Graph\_802.11ac20\_ANT1\_5825\_MCS9\_PSD

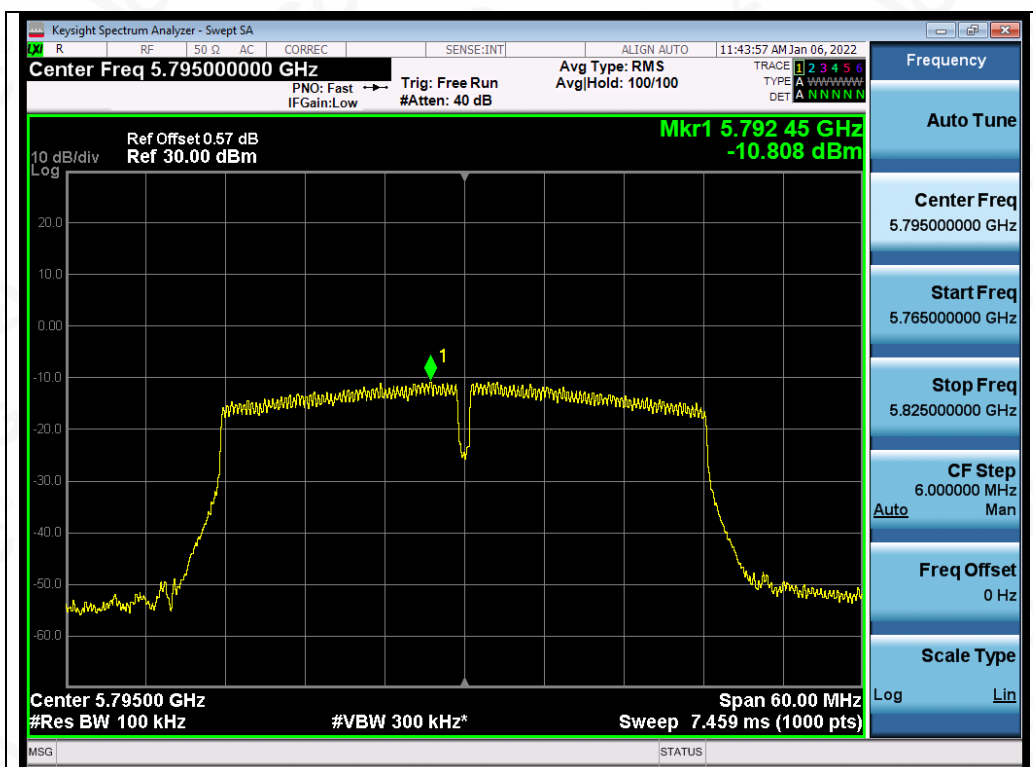


Test\_Graph\_802.11ac40\_ANT1\_5755\_MCS9\_PSD

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Test\_Graph\_802.11ac40\_ANT1\_5795\_MCS9\_PSD



Test\_Graph\_802.11ac80\_ANT1\_5775\_MCS9\_PSD

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## 10. CONDUCTED SPURIOUS EMISSION

### 10.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

### 10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

### 10.3. MEASUREMENT EQUIPMENT USED

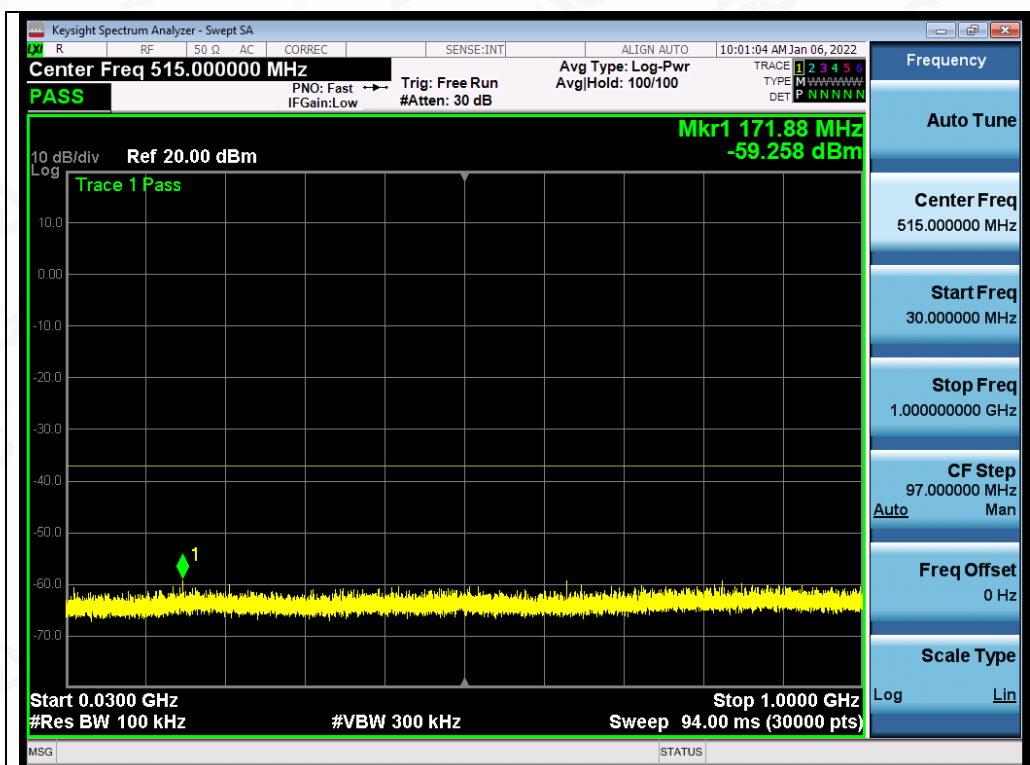
The same as described in section 6.

### 10.4. LIMITS AND MEASUREMENT RESULT

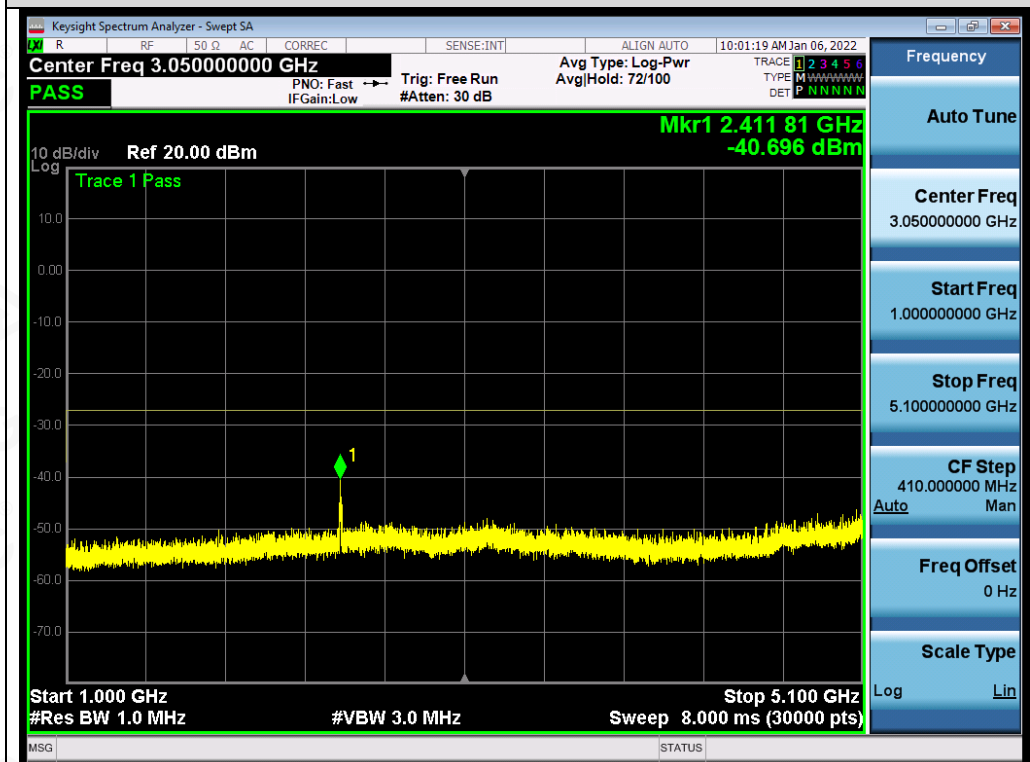
| LIMITS AND MEASUREMENT RESULT                                                                                                                                                                                                                                                                                                                                                                                                   |                    |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Applicable Limits                                                                                                                                                                                                                                                                                                                                                                                                               | Measurement Result |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test channel       | Criteria |
| -27dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                      | 5150MHz-5250MHz    | PASS     |
| All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. | 5725MHz-5850MHz    | PASS     |

Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11AC80 was the worst case and record in his test report.

## Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band

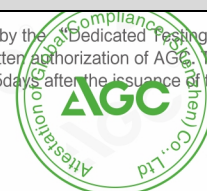


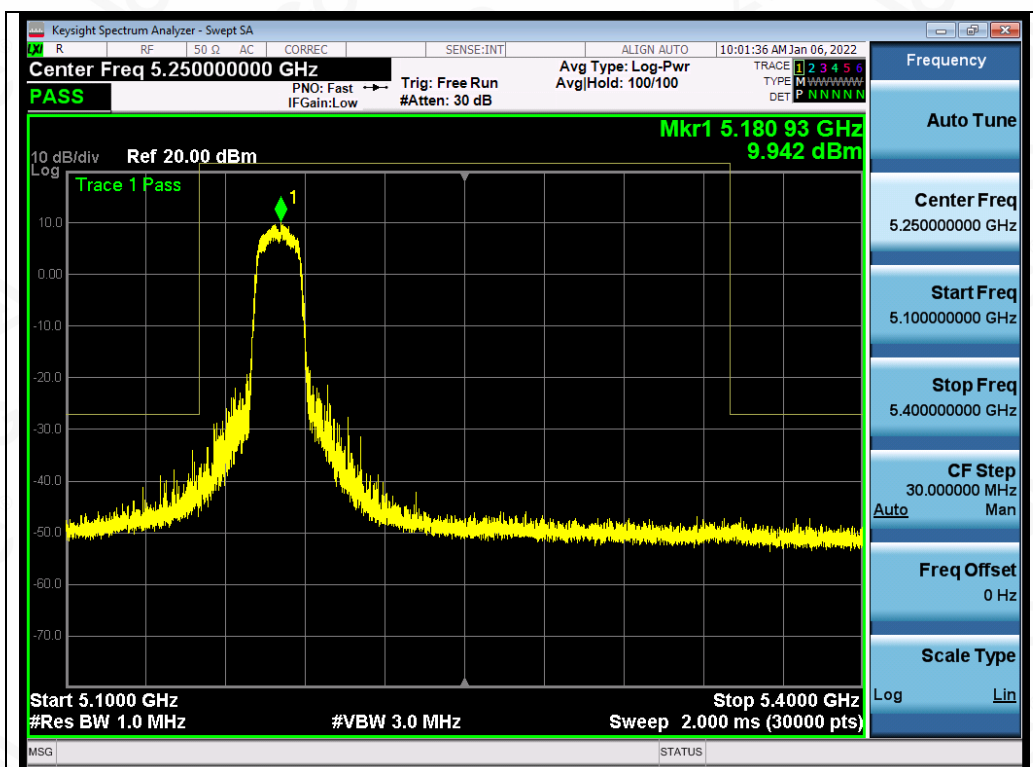
Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 1



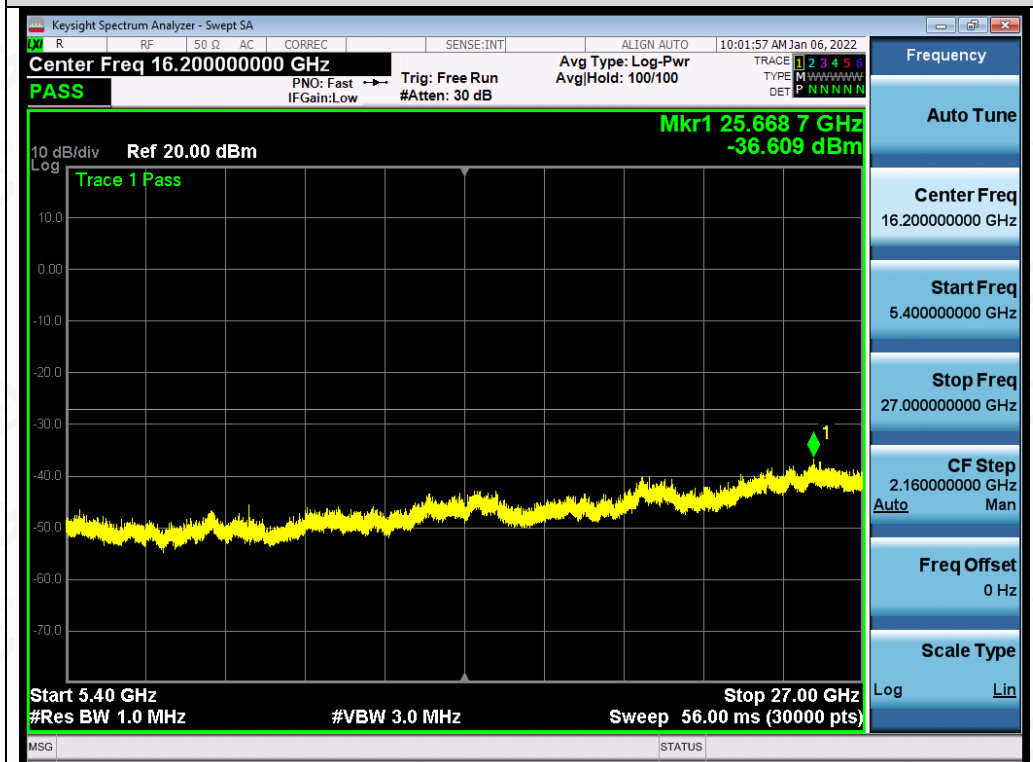
Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 2

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Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 3

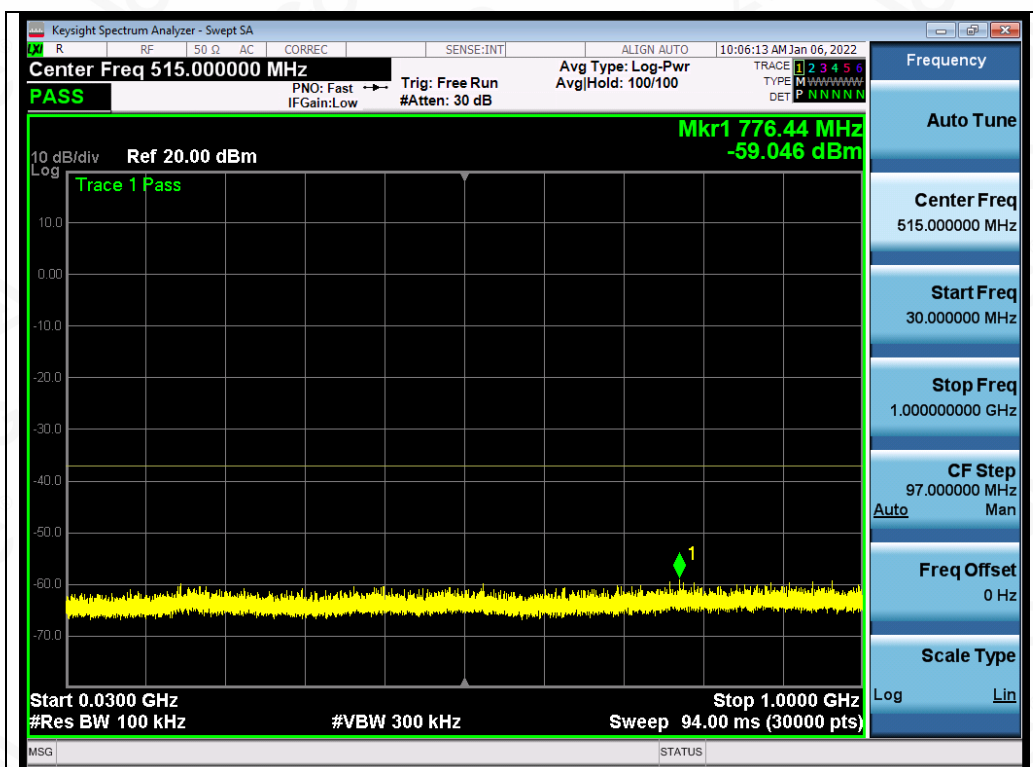


Test\_Graph\_802.11a\_ANT1\_5180\_6Mbps\_Frequency Band 4

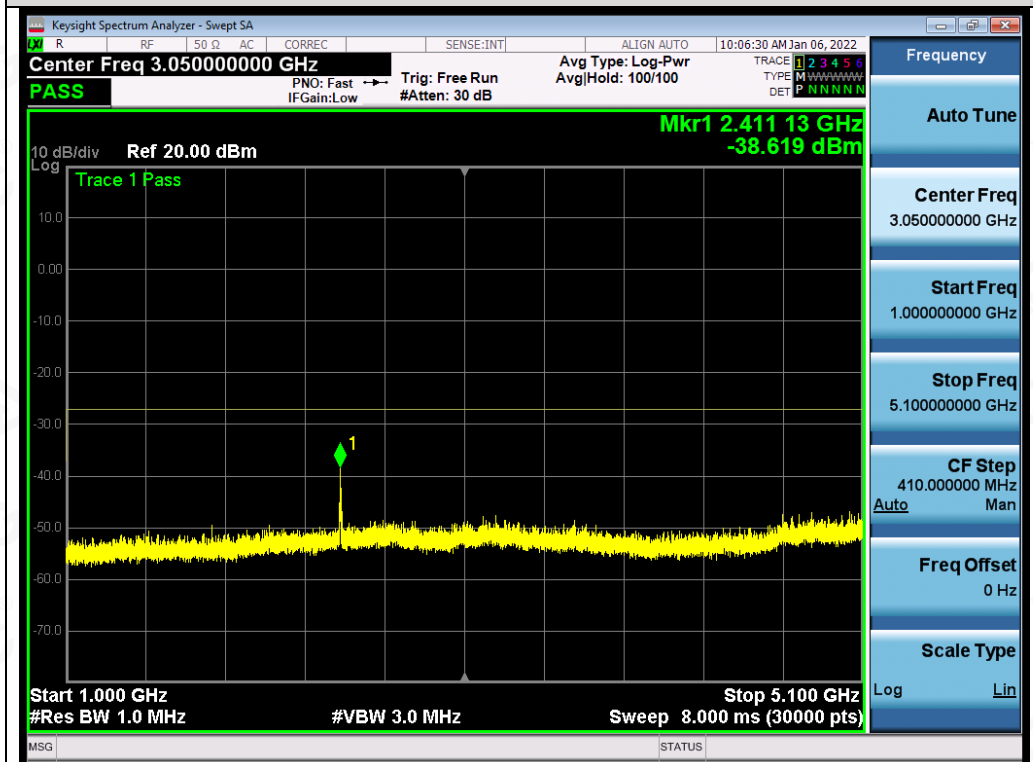
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Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_Frequency Band 1

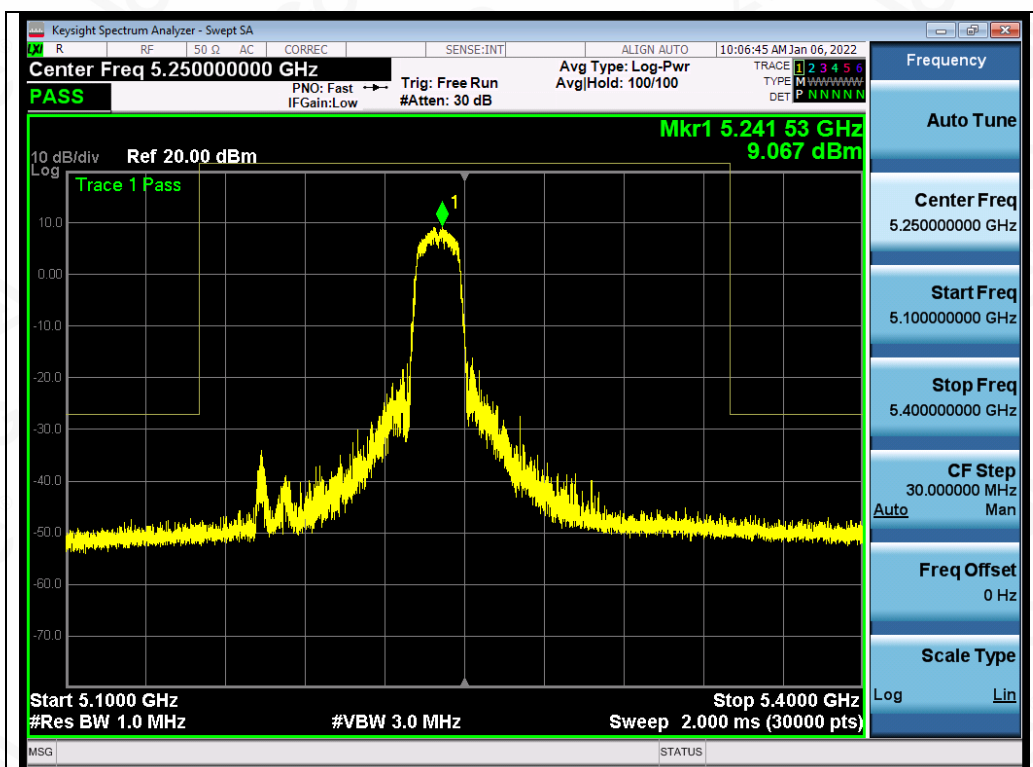


Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_Frequency Band 2

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Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_Frequency Band 3

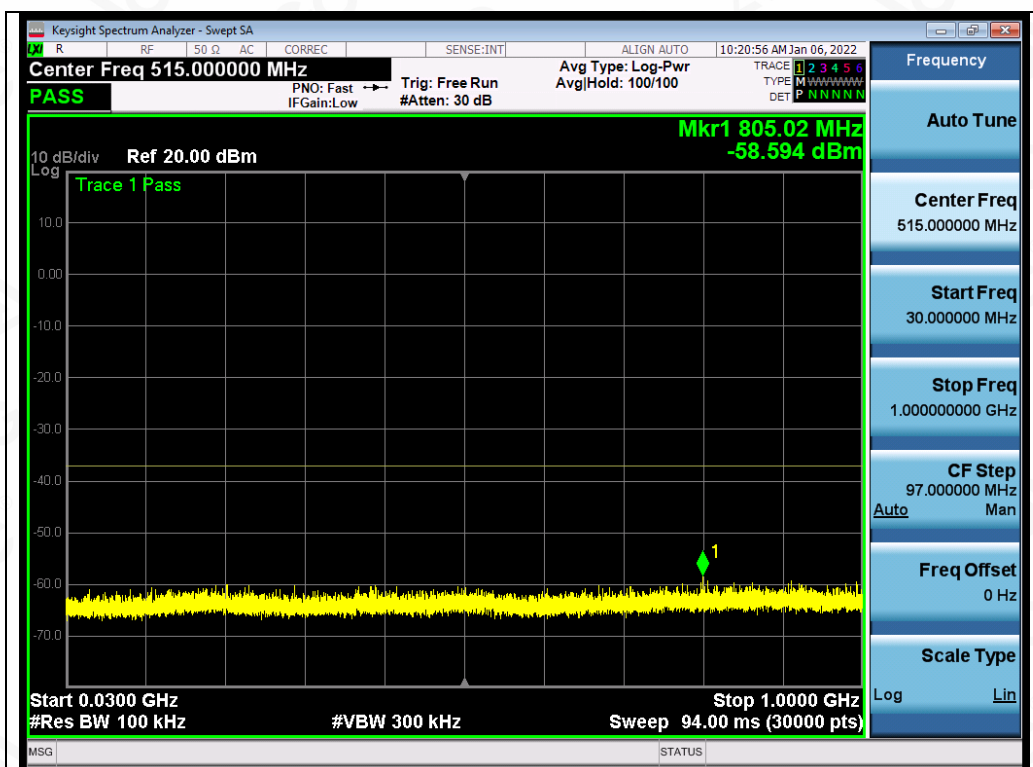


Test\_Graph\_802.11a\_ANT1\_5240\_6Mbps\_Frequency Band 4

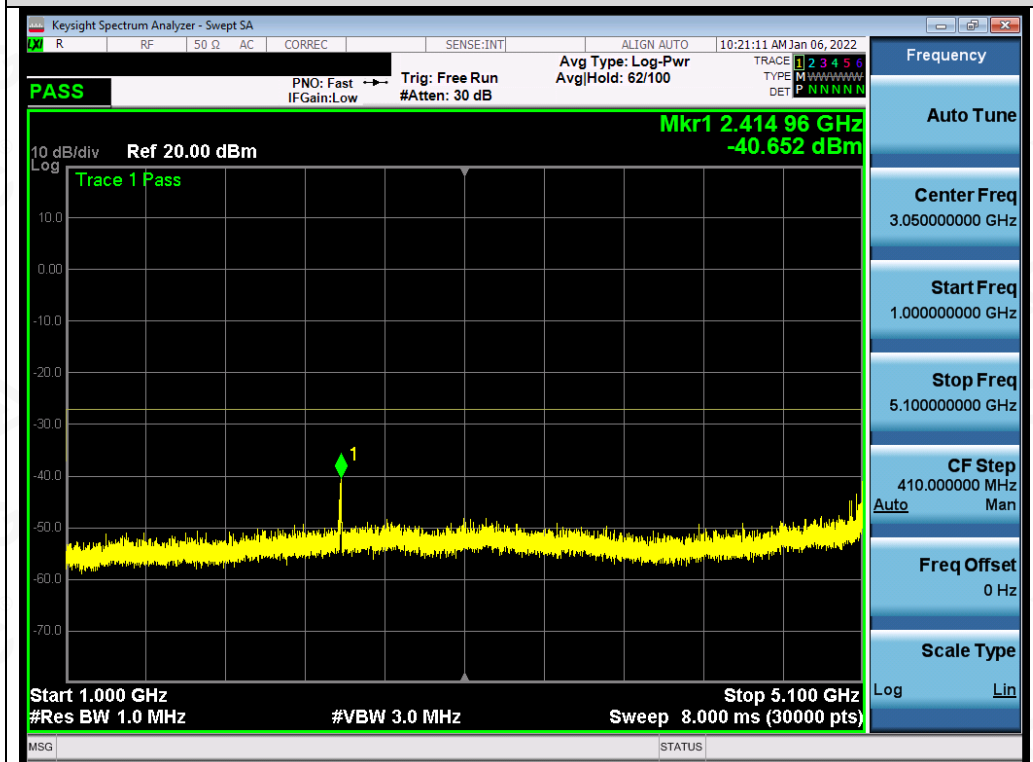
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Test\_Graph\_802.11n40\_ANT1\_5190\_MCS0\_Frequency Band 1

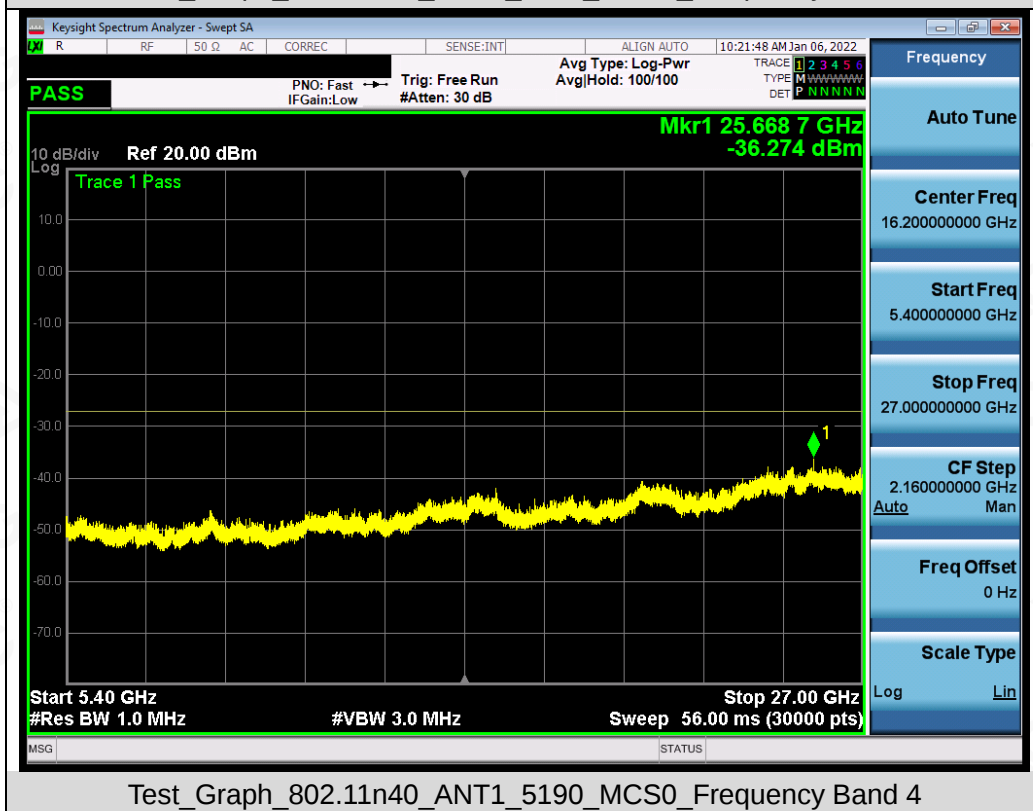
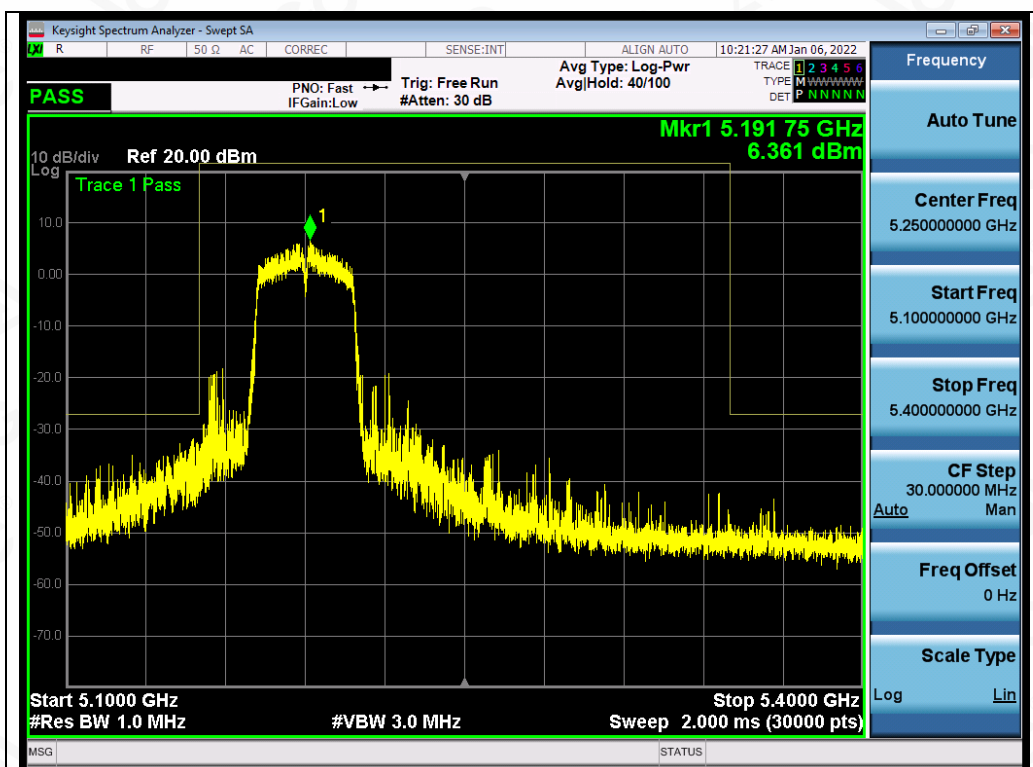


Test\_Graph\_802.11n40\_ANT1\_5190\_MCS0\_Frequency Band 2

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