

Page: 34 of 98

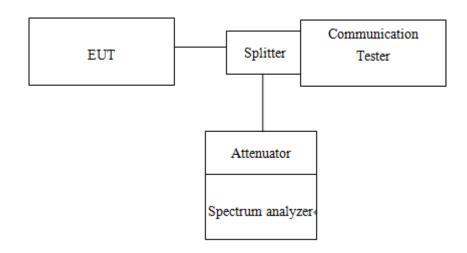
OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1 **Standard Applicable**

According to FCC §25.202(f)(3)

43 + 10 log p (watts) in any 4 kHz, the frequency of which is offset from the channel centre frequency by more than 250% of the occupied bandwidth or necessary bandwidth, whichever is greater

9.2 **Test SET-UP**



9.3 **Measurement Procedure**

Conducted Emission

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer.
- 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path losswas compensated to the results for each measurement.
- 4. The highest RF power within the transmitting frequency was measured.
- 5. Peak detector is used instead of RMS detector since the measured result of Peak detector is worse than the RMS one. If the test result of Peak detector exceed the limit, RMS detector will then be used.
- 6. Make the measurement with the spectrum analyzer's RBW = 100kHz, VBW = 300kHz, taking the record of the worst unwanted emission.
- 7. The conducted spurious emission for the whole frequency range was taken.
- 8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

Measurement Result: 9.4

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

Refer to next pages.

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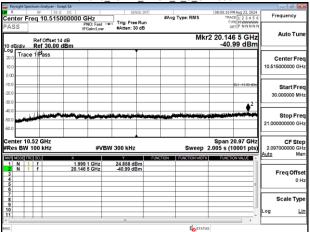
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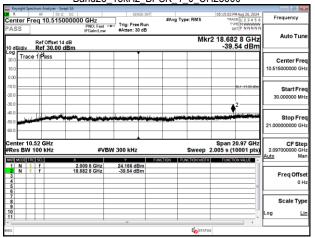


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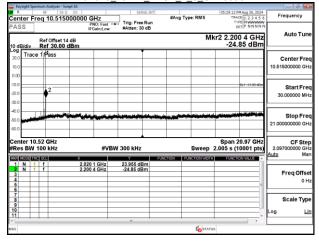
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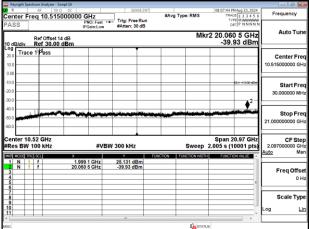




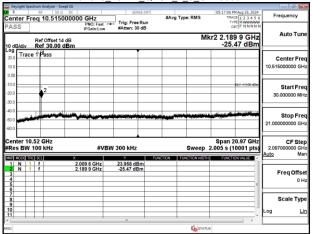
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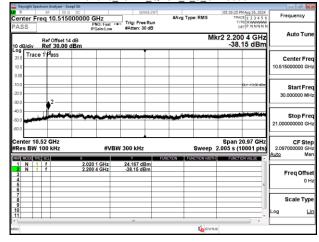
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Band23_15kHz_QPSK_1_0_CH25600



Band23 15kHz QPSK 1 0 CH25699



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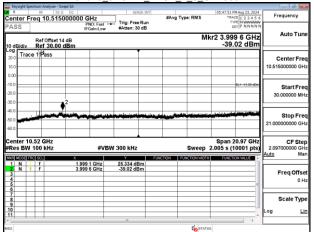
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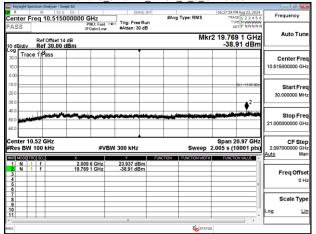


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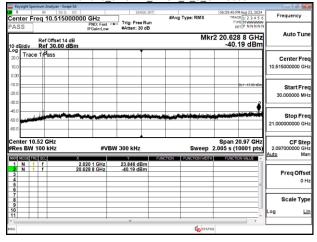
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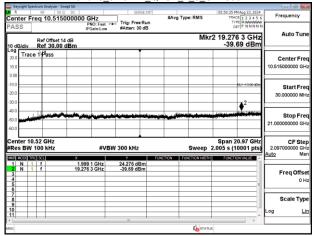
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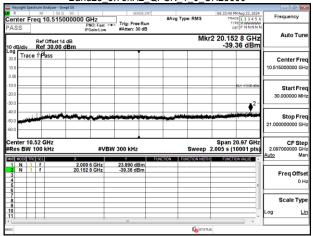
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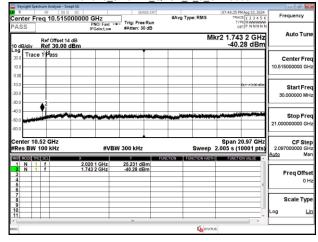
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Band23 3.75kHz QPSK 1 0 CH25600



Band23 3.75kHz QPSK 1 0 CH25699



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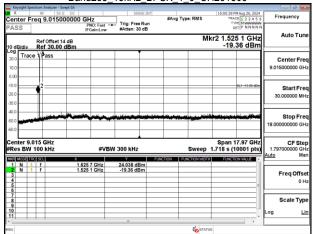
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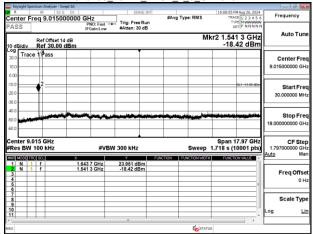


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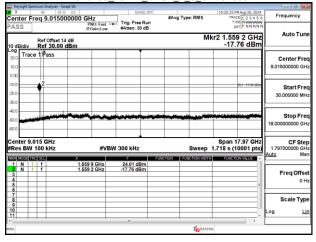
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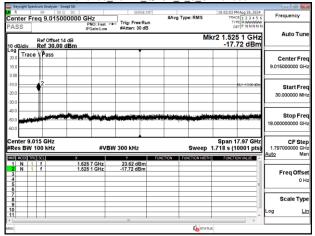
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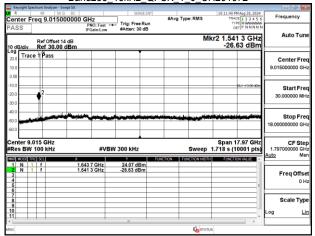
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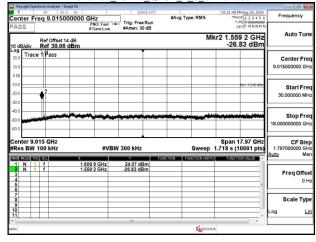
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Band255_15kHz_QPSK_1_0_CH261672



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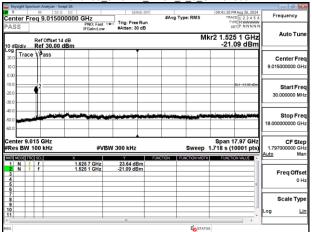
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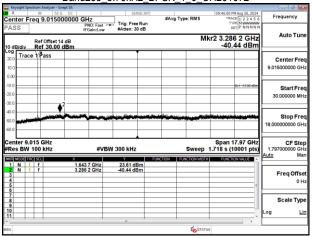


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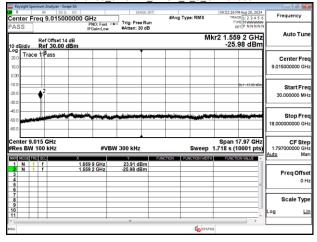
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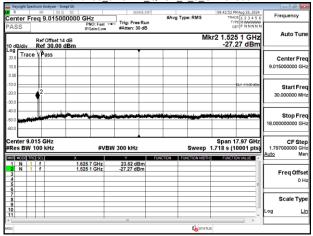
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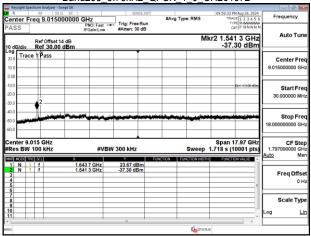
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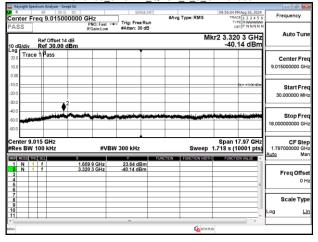
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Band255 3.75kHz QPSK 1 0 CH261672



Band255 3.75kHz QPSK 1 0 CH261838



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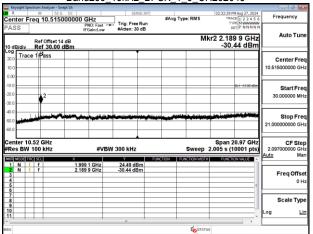
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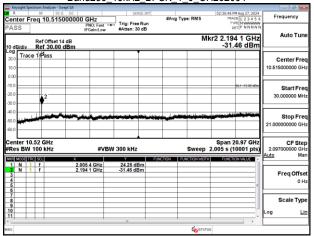


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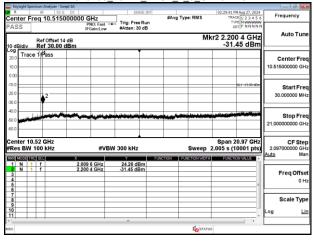
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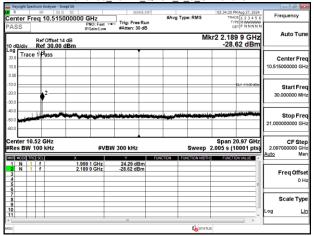
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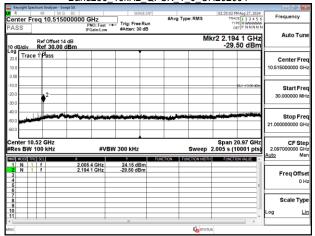
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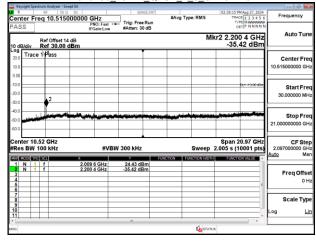
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Band256_15kHz_QPSK_1_0_CH262094



Band256 15kHz QPSK 1 0 CH262143



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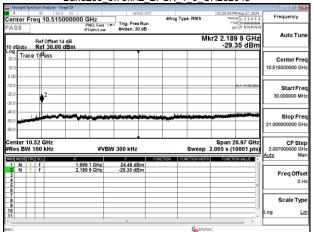
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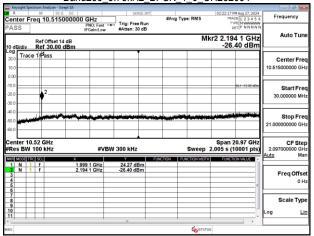


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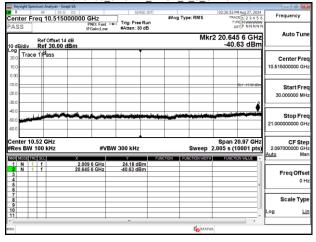
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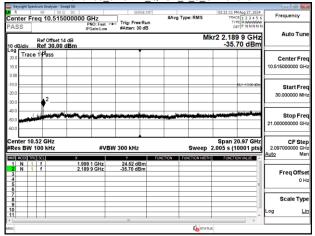
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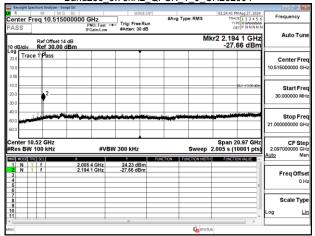
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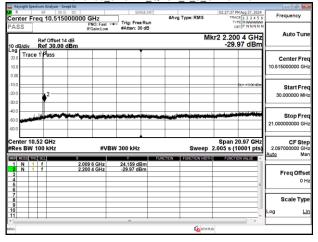
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10 EMISSIONS MASK WITHIN AUTHORIZED BANDWIDTH

Standard Applicable

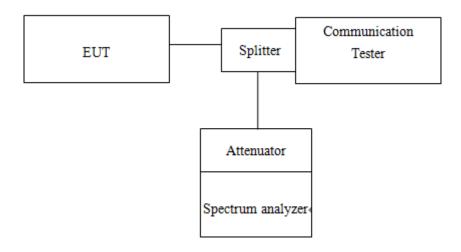
According to FCC §25.202(f)(1)(2)(3)

25 dB in any 4 kHz, the frequency of which is offset from the channel centre frequency by more than 50%, up to and including 100% of the occupied bandwidth or necessary bandwidth, whichever is greater

35 dB in any 4 kHz, the frequency of which is offset from the channel centre frequency by more than 100%, up to and including 250% of the occupied bandwidth or necessary bandwidth, whichever is greater

43 + 10 log p (watts) in any 4 kHz, the frequency of which is offset from the channel centre frequency by more than 250% of the occupied bandwidth or necessary bandwidth, whichever is greater

10.2 Test SET-UP



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Measurement Procedure

10.3.1 **Conducted Emissions Mask**

- The testing follows ANSI C63.26 section 5.7
- The EUT was connected to the spectrum analyzer.
- 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable And attenuator. The path loss was compensated to the results for each measurement.
- 4. The highest RF power within the transmitting frequency was measured.
- Make the measurement with the spectrum analyzer's RBW = 5kHz, VBW = 20kHz, taking the record of the worst unwanted emission.
- 6. If the test result in Step 5 exceed the limit, the following procedure will be used:
 - 6.1. Make the measurement with the spectrum analyzer's RBW = 1kHz, VBW = 3kHz.
 - 6.2. Record all measured worst frequencies.
 - 6.3. Use the Channel Power Function of the Spectrum Analyzer.
 - 6.4. Measure the powers of 4kHz bandwidth center the worst frequencies.

Measurement Result: 10.4

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

Refer to next pages

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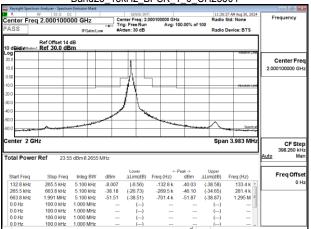
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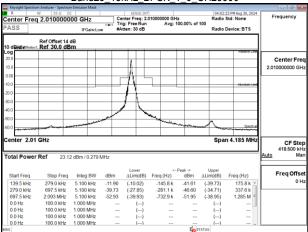
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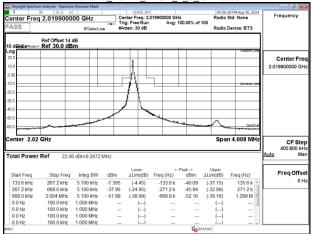
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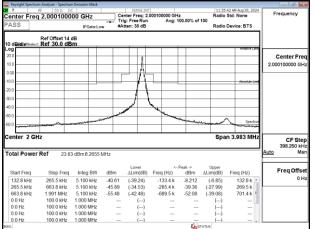
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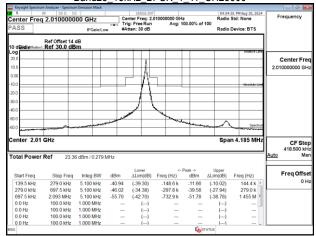
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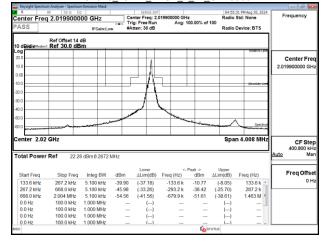
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Band23 15kHz BPSK 1 11 CH25600



Band23 15kHz BPSK 1 11 CH25699



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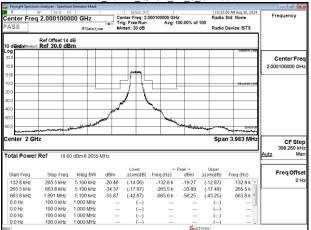
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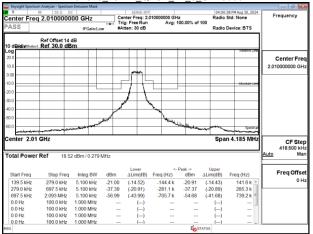


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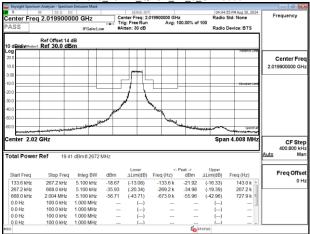
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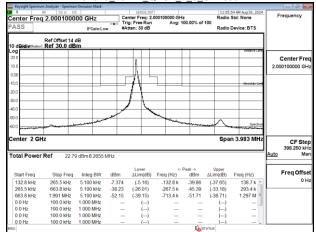
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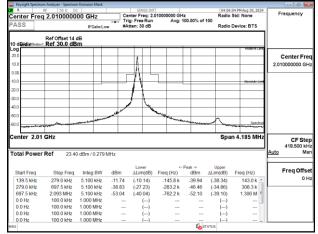
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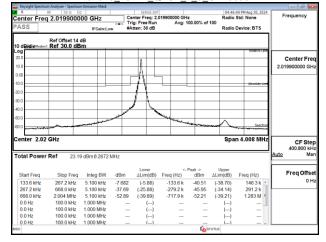
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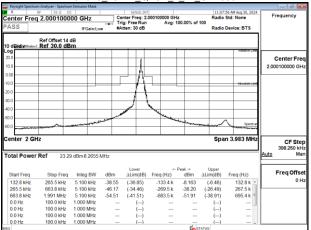
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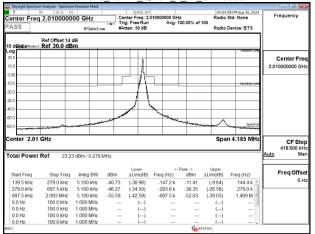
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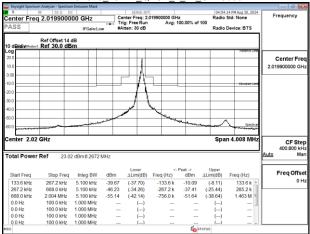
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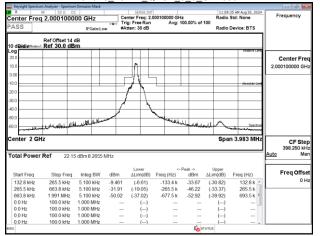
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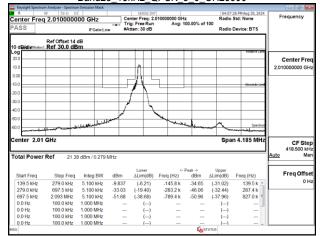
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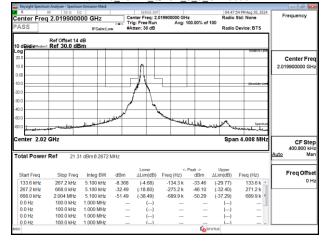
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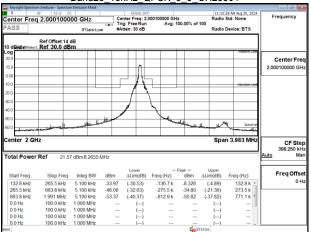
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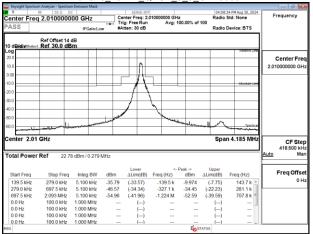
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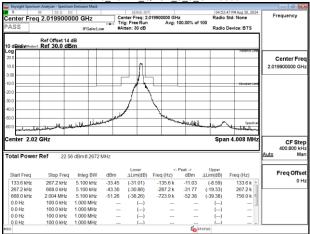
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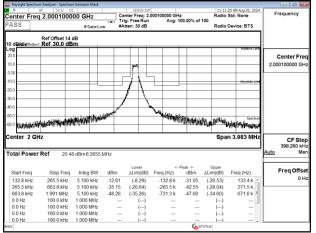
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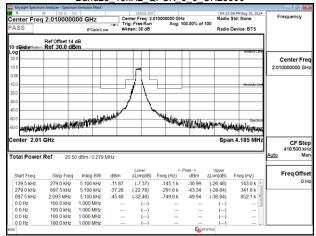
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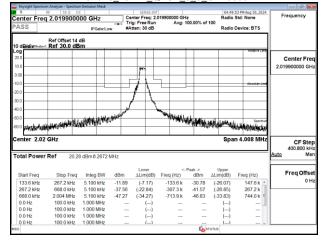
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