

5480A/B-5 SERVICE NOTE

Supersedes:

None

5480A/B SIGNAL ANALYZER All Serial Numbers REQUIREMENTS FOR AVERAGING

Several questions have arisen about interpreting the 5480A/B Operating and Service manuals, particularly concerning Averaging Modes; Summation and Average.

The manuals fail to emphasize the following three requirements necessary to utilize the 5480 Average Modes.

1. The waveform must be repetitive (not necessarily periodic).
2. A Sync" pulse must be available to signal the beginning of each repetition.
3. The highest frequency component of the input must be less than 50 KHz.

The second requirement causes the most concern because the 5480 Operating and Service manuals do not exclude the use of the "internal" or "line" trigger source. Please keep in mind that averaging can be done with the trigger source in either of the above positions, provided the following conditions are met:

- A. "Internal " - the input signal you wish to average is in "Sync" with the 5480 Internal Clock.
- B. "Line" - the input signal you wish to average is in "Sync" with the Line frequency.

Since these restrictions can be satisfied only in special cases, we recommend that "Internal" or "Line" trigger source not be used when using the 5480's Averaging or Summation Mode.

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