

Command ALOGDIFF5

PURPOSE Build logarithmic 5-point differential of analyzer

PARAMETERS

AIN Source analyzer
/DEST(AOUT) Destination analyzer
/ONTO(AOUT) Alias for option /DEST
/OUT(AOUT) Alias for option /DEST

FUNCTION Build the spectrum of 5-point logarithmic differences.
The contents y_{out} of the destination analyzer AOUT are determined from the contents y_{in} of the input analyzer AIN by the following relation: $y_{out}(i) = 0.0625 (\ln(y_{in}(i+4)) - 4 \ln(y_{in}(i+3)) + 6 \ln(y_{in}(i+2)) - 4 \ln(y_{in}(i+1)) + \ln(y_{in}(i)))$.

REMARKS The result of the operation has 4 channels less than the input analyzer.
The command supports error bars.

EXAMPLE ALOGDIFF5 AIN / DEST(AOUT)
Determine the spectrum of 5-point logarithmic differences of analyzer AIN and store the result in the analyzer AOUT.