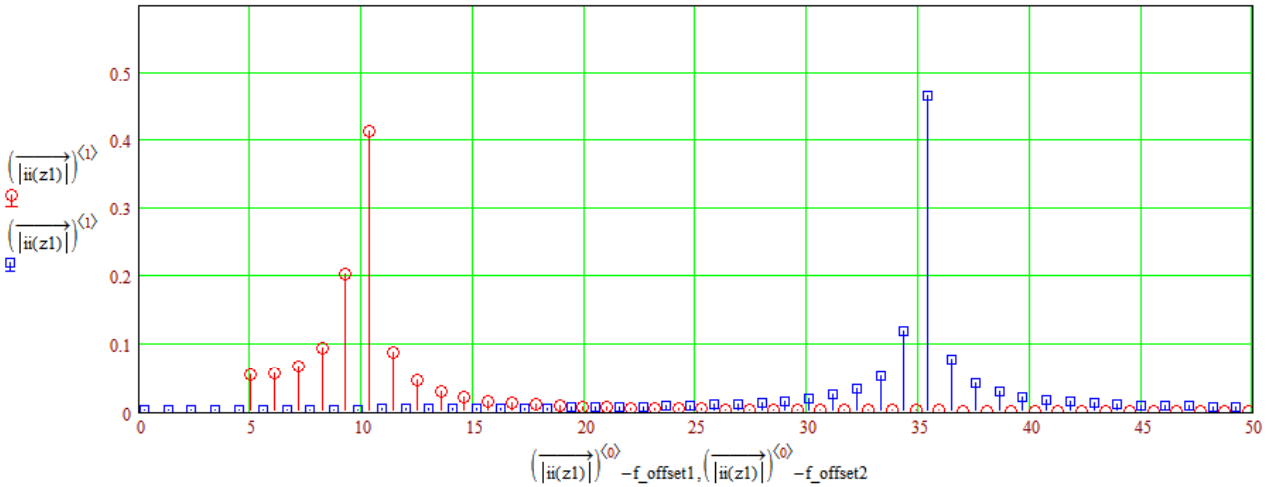
Try these values for z1:

5.00	500
5.3285	502.885
5.2165	503

$z1 := 5$

$f\_offset1 := round(z1 - 10)$

$f\_offset2 := round(z1 + \delta 1 - 35)$ keeps both spectral sections within graph plot.



red trace is z1 component, blue trace is $(z1 + \delta 1)$ component

Number of cycles over full sampling interval ($N0 \cdot \Delta k$ repeat interval).
spectral "leakage occurs when this is not an integer.

$z1 = 5$ $\qquad \frac{10 \cdot \Delta k \cdot z1}{\pi} = 4.69$ for z1 component

$\delta 1 = 228.16$

$(z1 + \delta 1) = 233.16$ $\qquad \frac{10 \cdot \Delta k \cdot (z1 + \delta 1)}{\pi} = 218.8$ for $z1 + \delta 1$ component

Number of samples per cycle (want >2 to prevent aliasing)

$\frac{N0 \cdot \pi}{10 \cdot \Delta k \cdot z0}$ samples per cycle $\qquad \frac{N0 \cdot \pi}{10 \cdot \Delta k \cdot z1} = 873$ for z1 component

$\frac{N0 \cdot \pi}{10 \cdot \Delta k \cdot (z1 + \delta 1)} = 18.72$ for $z1 + \delta 1$ component