Data of config_c

Experimental Clarification of Coulomb-Field Propagation

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Experimental setup
Measurement 1
Measurement 2
Measurement 3
Measurement 4
Measurement 5
Further signal-development (50 ns/div)
Further signal-development (500 ns/div)

Report of the experiment: coulomb_experiment.html
Spreadsheet evaluation of the data presented here: coulomb_experiment.xls (config_c)
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Experimental setup:

Main experiment (dealing with green and red signals of screen-shots from main oscilloscope):
\[ \Delta x = 1.65 \text{ m (where } x_{\text{left}} = 3.35 \text{ m and } x_{\text{right}} = 5 \text{ m)} \rightarrow \Delta t = \frac{\Delta x}{c} = 5.5 \text{ ns} \]

Control experiment (dealing with yellow signals of screenshots from both oscilloscopes, synchronized by blue signals):
\[ \Delta x = 3 \text{ m (where } \text{dist} = 0.75 \text{ m and } x = 3.75 \text{ m)} \rightarrow \Delta t = \frac{\Delta x}{c} = 10 \text{ ns} \]
Config_c, measurement 1:

End of config_c, measurement 1
Config_c, measurement 2:

End of config_c, measurement 2
Config_c, measurement 3:
Config_c, measurement 4:

End of config_c, measurement 4
Config_c, measurement 5:

End of config_c, measurement 5
Config_c, further signal-development (50 ns/div):

End of config_c, further signal-development (50 ns/div)
Config_c, further signal-development (500 ns/div):

End of config_c, further signal-development (500 ns/div)