Example, how the prepared protocol should look like:

Finding optimum settings for the setup and the planned experiments
Parameter: CFD – lower limit

Fixed Parameters:
Sample: Ludox, detector voltage: 800 V, $10^4$ < Counts < $10^6$
detection polarizer: magic angle, detection path filter: neutral filter

| CFD lower limit | Signal<br>Cumulated counts $C_S$<br>of channels: | Noise<br>Cumulated counts $C_N$<br>of channels: | $(C_S-C_N)/C_N$ |
|---|---|---|---|
| 5 mV | | | |
| 10 mV | | | |
| 15 mV | | | |
| 20 mV | | | |
| 30 mV | | | |
| 40 mV | | | |
| 50 mV | | | |

How to analyze the data?
The best setting will have the lowest SNR (column 4), if different settings have a very similar SNR then the one with highest counts is preferred.