

## OPERATION OF NIRS BOX USING TRS

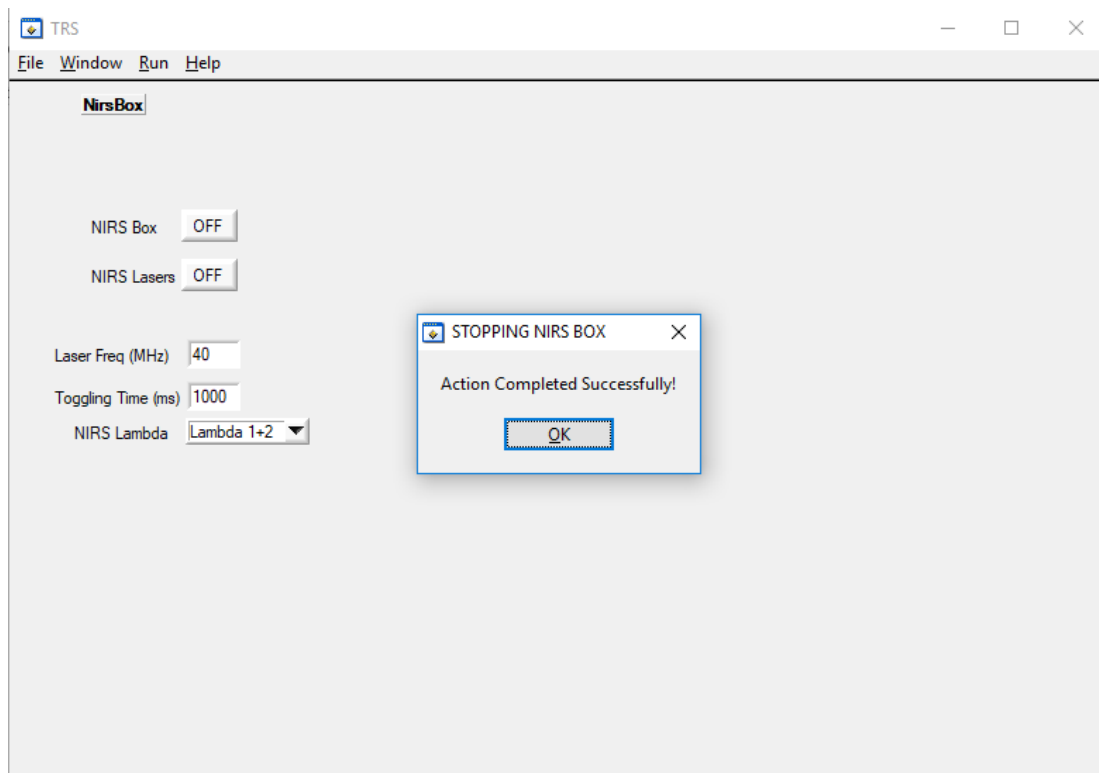
(Antonio Pifferi, 12/12/2017)

### SOFTWARE:

- ☐ TRS  $\geq$  version 15.0 (Beta\Work\Programs\NirsBox)
- ☐ Using NIRS\_DLL\_v2.dll (included in TRS) – not necessary
- ☐ Standalone exe: NIRS-Box\_v2 (Beta\Work\Programs\NirsBox) – not necessary

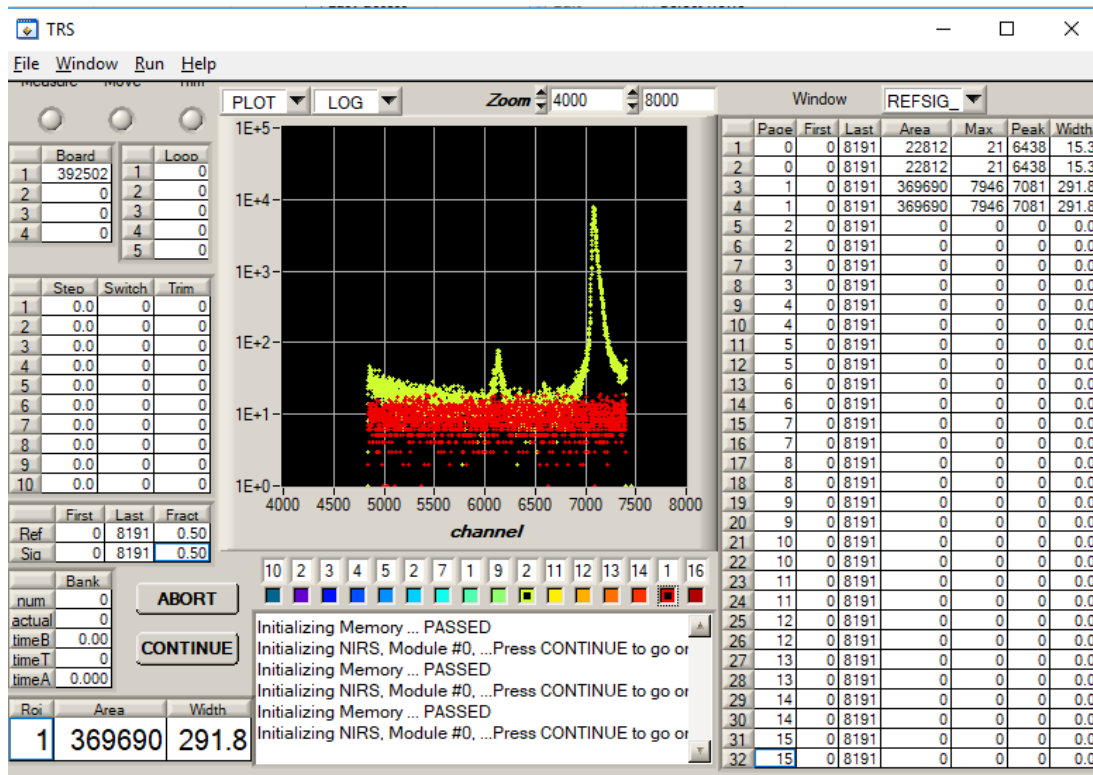
### START (ONLY AT THE BEGINNING OF THE DAY):

- ☐ Open Window->NirsBox
- ☐ Press “NIRS Box” button (initially OFF)
- ☐ Wait for confirmation
- ☐ Set/Check Laser parameters on same window (Freq, Time, Lambda)
- ☐ Press “NIRS Laser” button (initially OFF)
- ☐ Wait for confirmation



## MEASUREMENT/OSCILLOSCOPE:

- ☐ Select Type=NIRS, Wait=SPC, ClearData=OFF, StopData=OFF
- ☐ In case you selected Lambda=LAMBDA 1+2, you have 2 curves on channels #1 (LAMBDA2) and #2 (LAMBDA1)
- ☐ You can change FREQ, LAMBDA under the NirsBox Window
- ☐ Time (Meas or Oscill) is the TOTAL time for the single or double lambda (i.e. 2 lambda =50% of the time each)
- ☐ Run Operation as usual



## STOP (ONLY AT THE END OF DAY):

- ☐ Open Window->NirsBox
- ☐ Press "NIRS Laser" button (now in ON)
- ☐ Wait for confirmation
- ☐ Press "NIRS Box" button (now in ON)
- ☐ Wait for confirmation

## NOTES:

- ☐ Minimum Acquisition Time = 0.5 s (total for 2 lambda)
- ☐ Calib (ps/ch) and Factor (ps/ch) automatically defined (9.77 ps/ch)
- ☐ Scale by now is not operative (could be implemented to bin in time and reduce #channels)
- ☐ Better not to START/STOP the Laser many times and at short intervals (1 min)
- ☐ Remember to STOP Laser and Board at the End (need for automatic control?, not straightforward)