Acquiring Raman Spectra with Portable Raman Spectrometer Thermo Scientific AhuraFD

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Revised:			Approved by:

RAMAN SPECTROMETER SETUP

	Open suitcase with Raman spectrometer.
	Pick up Raman spectrometer from the suitcase.
	Rotate both lines clockwise to access the bottom part of the portable spectrometer.
	Insert SD memory inside the portable Raman spectrometer.
	Plug and connect power

CREATE NEW DATA FOLDER (SESSION)

	Choose "Scan" by pressing the Enter button ( ).
	Move down and press Enter to create new data folder (session).
	Delete text and write name for the new data folder (session). Choose "Done".

ACQUIRE RAMAN SPECTRA

	Choose "Scan" by click Enter, scroll down with down arrow, place "Auto" for Mode if no specific exposure time is needed, and choose desire laser power below.
	Choose "Go" by going upwards towards the "Go" button and clicking Enter.
	Place sample inside the internal sampling area.
	Press "ARM" button to indicate that the Raman contains a sample.
	Enter Laser password by pressing left arrow (LA), left arrow (LA), and down arrow (DA).
	Press ENTER twice.
	Choose "Scan" and "Go".
	Choose the number of seconds to wait before acquisition (Delay) and the maximum minutes that the spectrometer should take to measure the sample (Timeout).
	Press up arrow and Enter to start the Raman spectra acquisition (Scan).
	Press left arrow and Enter to start scan even though a Delay time was not determined. This option does not appear if Delay time is different of zero.

COMPARE LIBRARY SPECTRA WITH ACQUIRED SPECTRUM

	Click on the desired library spectrum to view by pressing Enter on the name and then Enter on the option "View Spectrum".
	Compare the spectrum acquired (black) with different library spectrum (red) by clicking on the down arrow.
	Close view by pressing the "Esc" button.

EXPORTING SPECTRAL DATA TO MicroSD MEMORY

	Export desired data by selecting the desired data and pressing Enter and select "Export to card" and press Enter.
	Message will appear saying that the export was successful. Press Enter and it will go back to the library spectra option.

TURNING OFF SPECTROMETER

	Turn off by pressing the power button.

TRANSFERING DATA FROM SPECTROMETER TO COMPUTER

	Press button at the left of the microSD port to remove microSD card.
	Insert microSD card inside the microSD to USB adapter.
	Connect the USB to microSD adapter cable on the microSD to USB adapter.
	Connect the USB to microSD adapter cable to the computer to transfer files.