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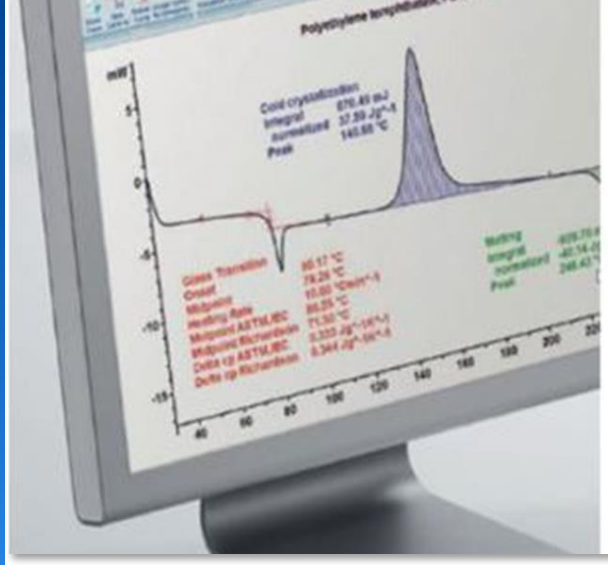
Date/Author



- Swiss Quality

Click to watch the video

DSC Routine 中文操作

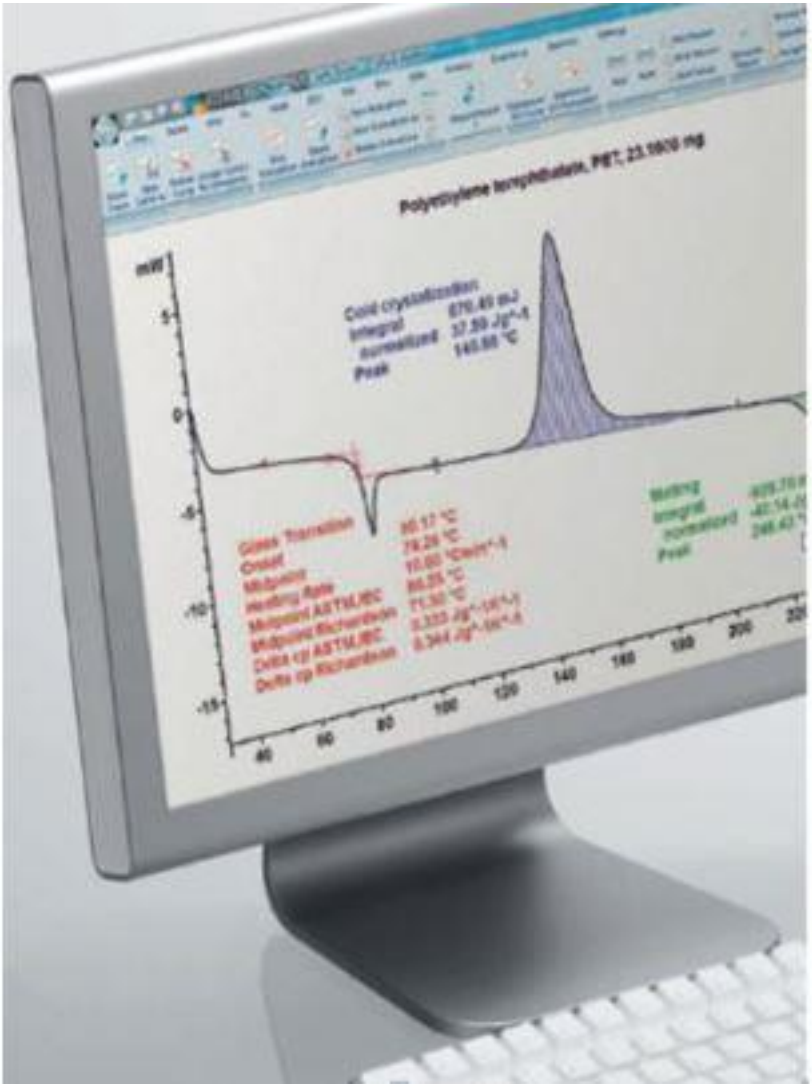
METTLER TOLEDO

Agenda

1	Star
2	Main Bar
3	Method editor
4	Experiment Editor
5	Module Control Window
6	
7	
8	
9	

For internal use - Confidential

The STARe Software

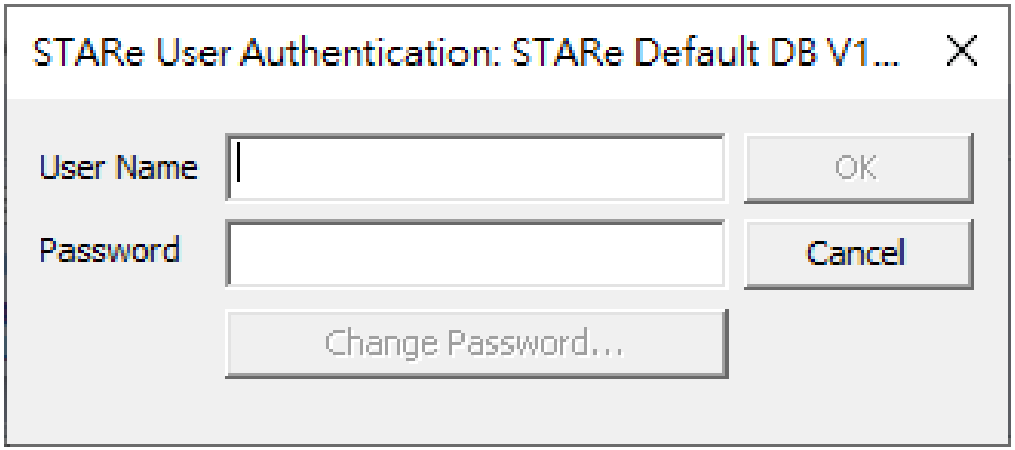


- Innovative Technology
- Versatile Modularity
- Swiss Quality

Click to watch the video

Star


STARe
Software


STARe User Authentication: STARe Default DB V1...
User Name
Password
OK
Cancel
Change Password...

Agenda

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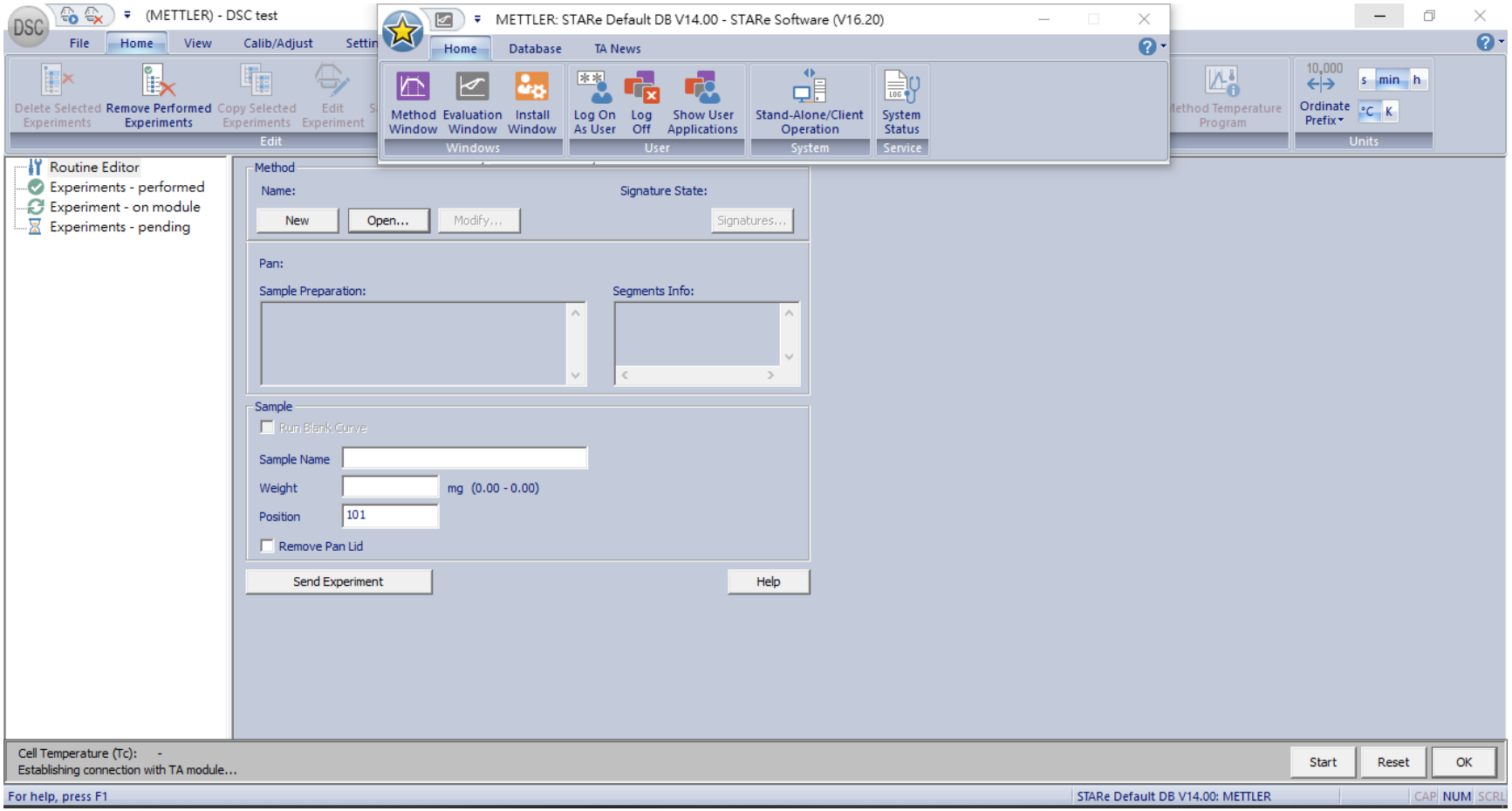
Main Bar


(METTLER) - DSC test
File
Home
View
Calib/Adjust
Delete Selected Experiments
Remove Performed Experiments
Copy Selected Experiments
Edit Experiment
Edit
METTLER: STARe Default DB V14.00 - STARe Software (V16.20)
Home
Database
TA News
Method Window
Evaluation Window
Install Window
Windows
Log On As User
Log Off
Show User Applications
User
Stand-Alone/Client Operation
System
System Status
Service
Method Temperature Program
Ordinate Prefix
Units
Routine Editor
Experiments - performed
Experiment - on module
Experiments - pending
Method
Name:
Signature State:
New
Open...
Modify...
Signatures...
Pan:
Sample Preparation:
Segments Info:
Sample
Run Blank Curve
Sample Name
Weight
mg (0.00 - 0.00)
Position
101
Remove Pan Lid
Send Experiment
Help
Cell Temperature (Tc): -
Establishing connection with TA module...
Start
Reset
OK
For help, press F1
STARe Default DB V14.00: METTLER
CAP
NUM
SCRL

Main Bar

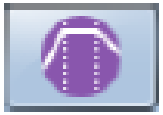
STAR® Software

Install Window

Module Control Window

Experiment Window

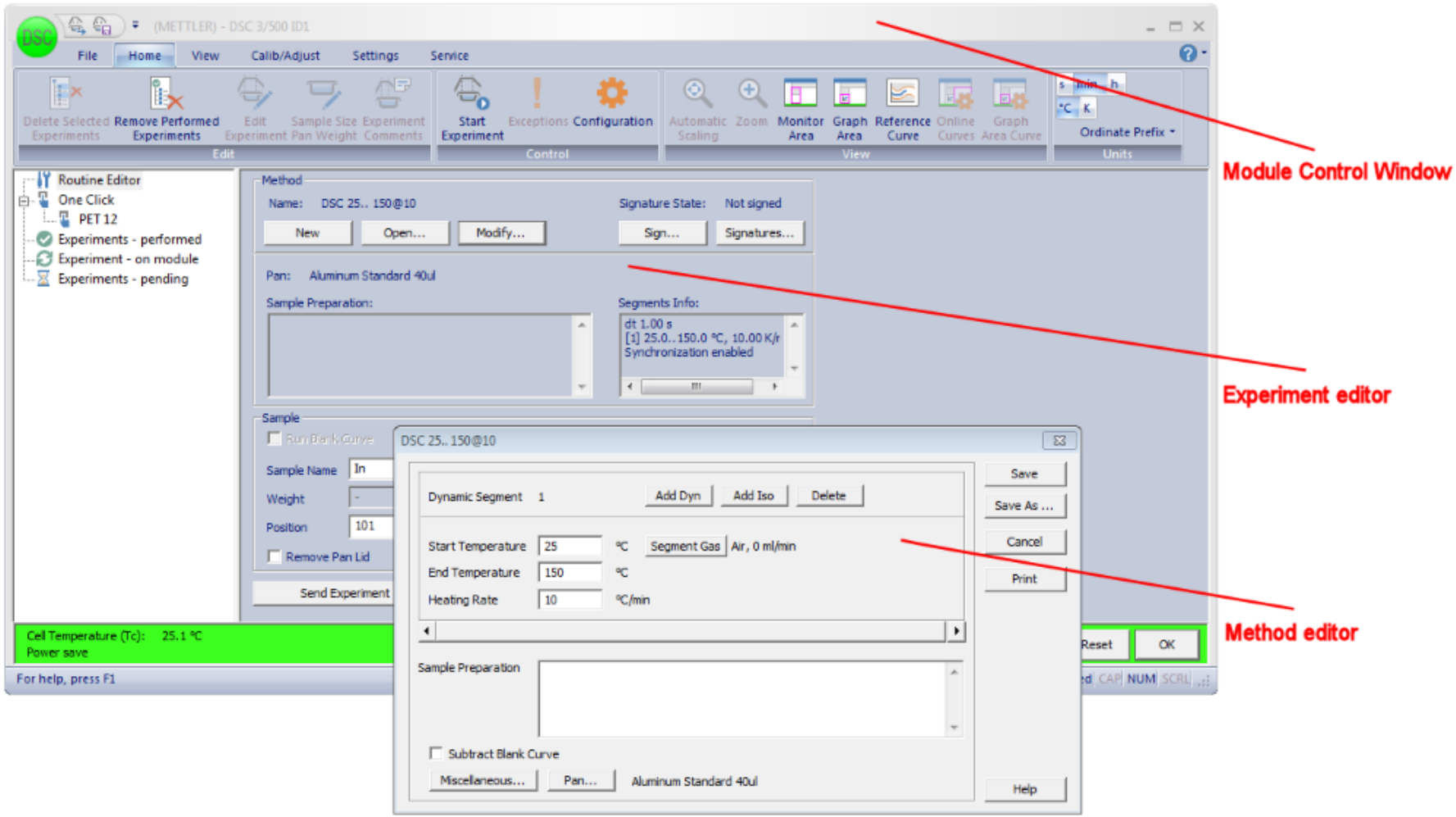
Evaluation Window



Method Window

Balance Control Window

Over view


(METTLER) - DSC 3/500 ID1
File
Home
View
Calib/Adjust
Settings
Service
Delete Selected Experiments
Remove Performed Experiments
Edit Experiment
Sample Size Pan Weight
Experiment Comments
Edit
Start Experiment
Exceptions
Configuration
Control
Automatic Scaling
Zoom
Monitor Area
Graph Area
Reference Curve
Online Curves
Graph Area Curve
View
Ordinate Prefix
Units
Routine Editor
One Click
PET 12
Experiments - performed
Experiment - on module
Experiments - pending
Method
Name: DSC 25.. 150@10
Signature State: Not signed
New
Open...
Modify...
Sign...
Signatures...
Pan: Aluminum Standard 40ul
Sample Preparation:
Segments Info:
dt 1.00 s
[1] 25.0..150.0 °C, 10.00 K/r
Synchronization enabled
Sample
Sample Name
Weight
Position
Remove Pan Lid
Send Experiment
DSC 25.. 150@10
Dynamic Segment 1
Add Dyn
Add Iso
Delete
Save
Save As ...
Cancel
Print
Help
Start Temperature 25 °C
Segment Gas Air, 0 ml/min
End Temperature 150 °C
Heating Rate 10 °C/min
Sample Preparation
Subtract Blank Curve
Miscellaneous...
Pan...
Aluminum Standard 40ul
Cell Temperature (Tc): 25.1 °C
Power save
Reset
OK
For help, press F1
Module Control Window
Experiment editor
Method editor

Agenda

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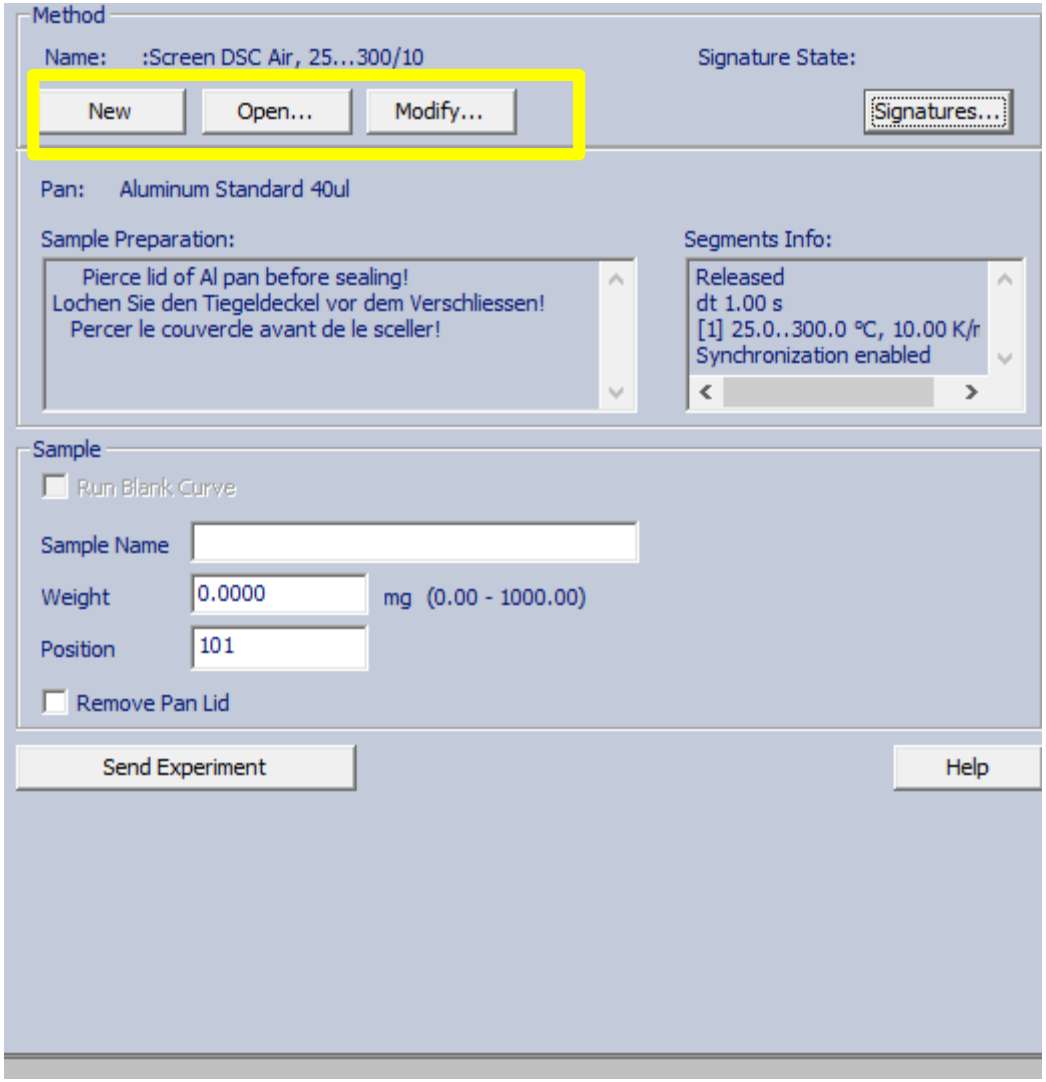
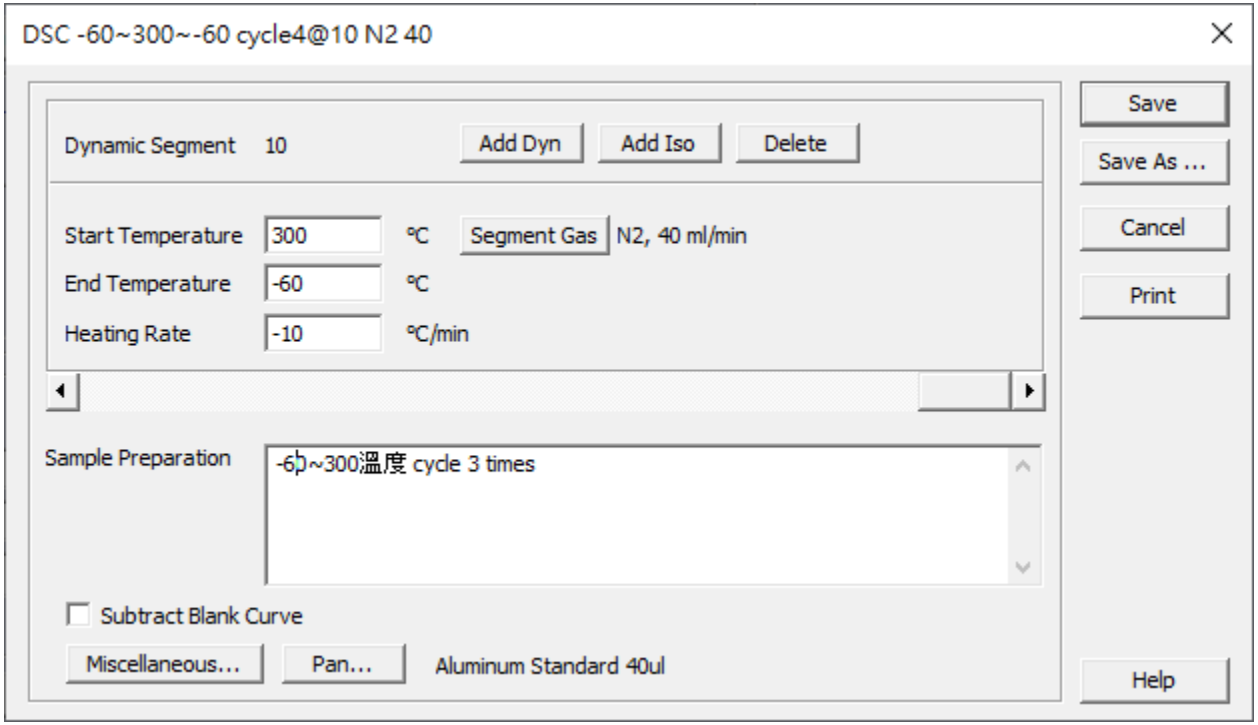
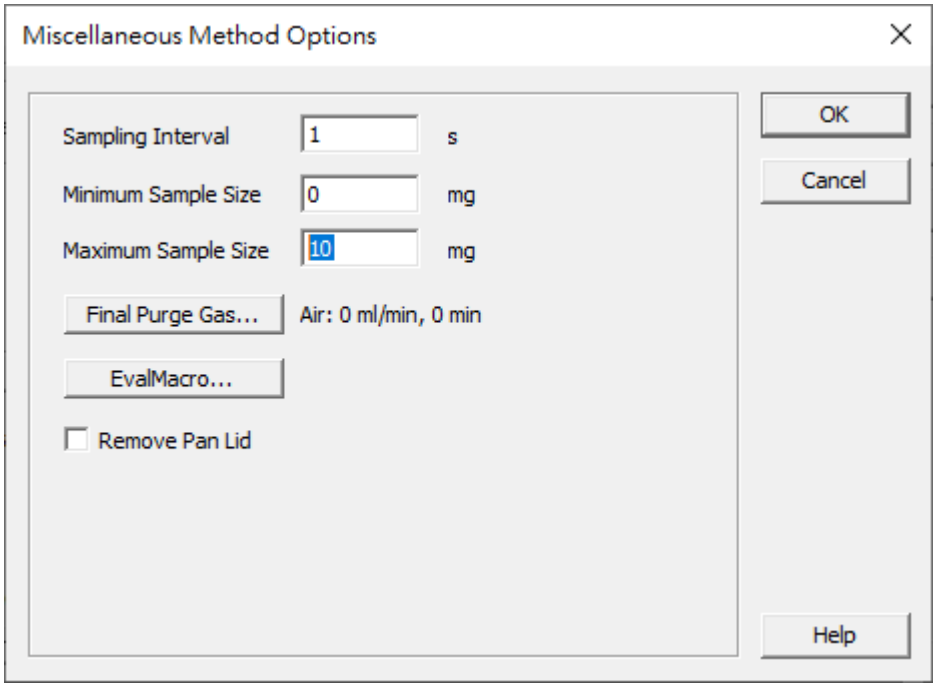
Method editor :



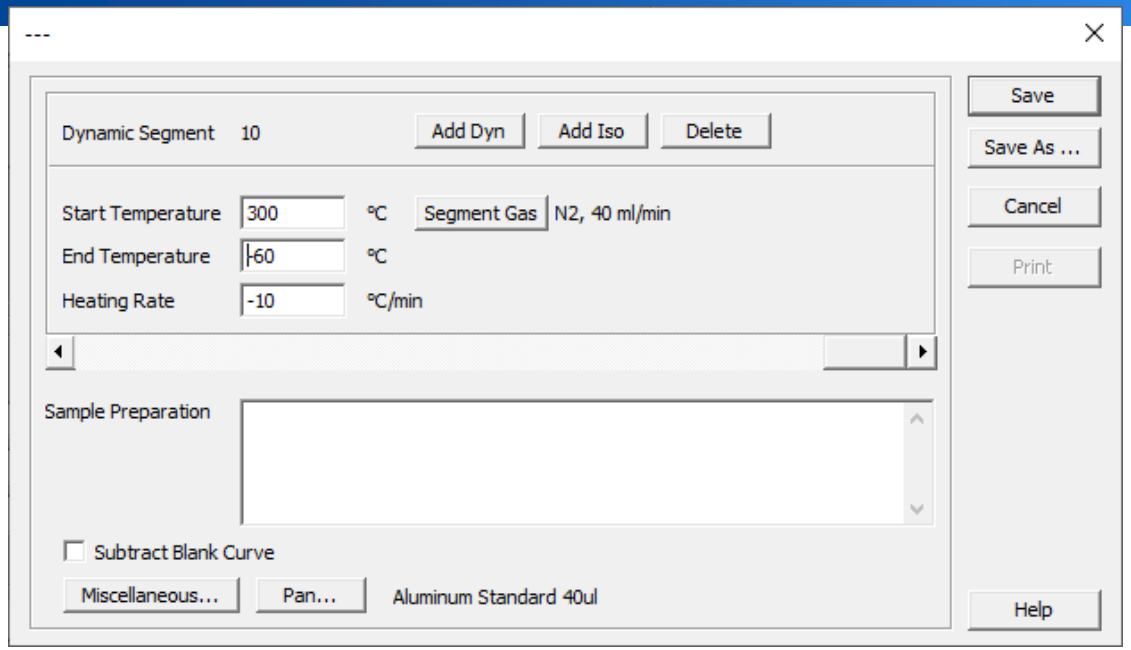
Method editor :

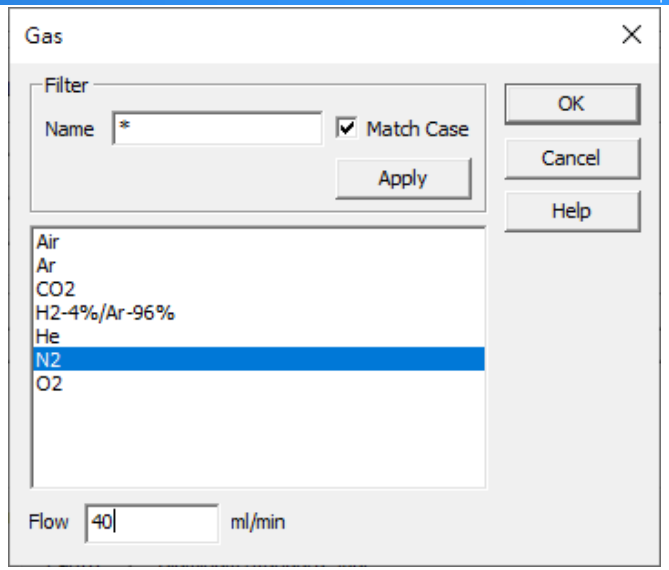


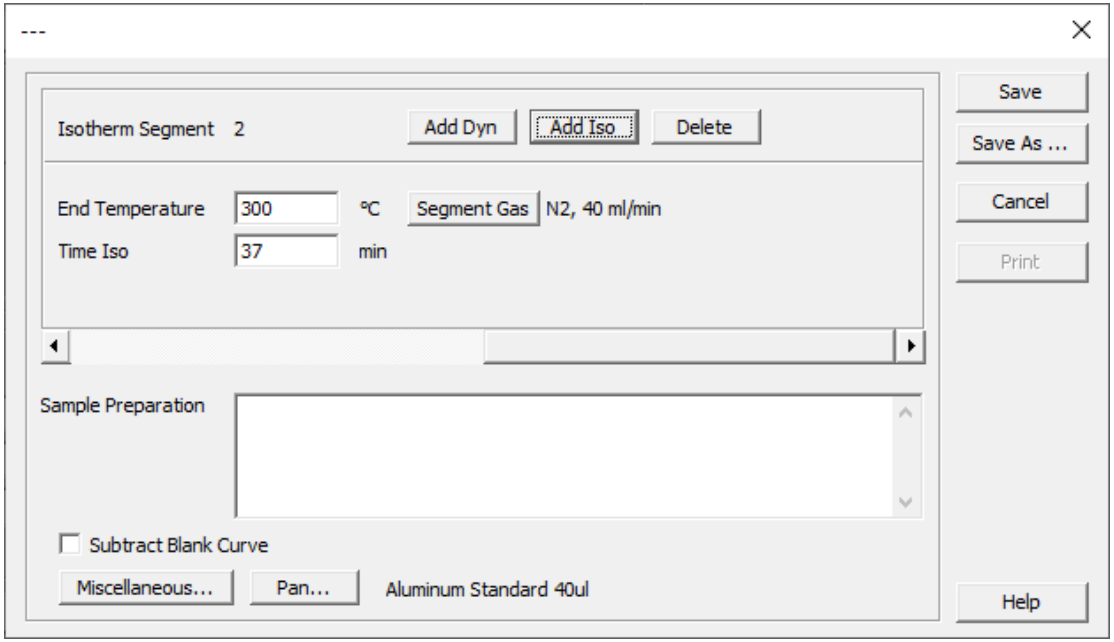
Method editor :



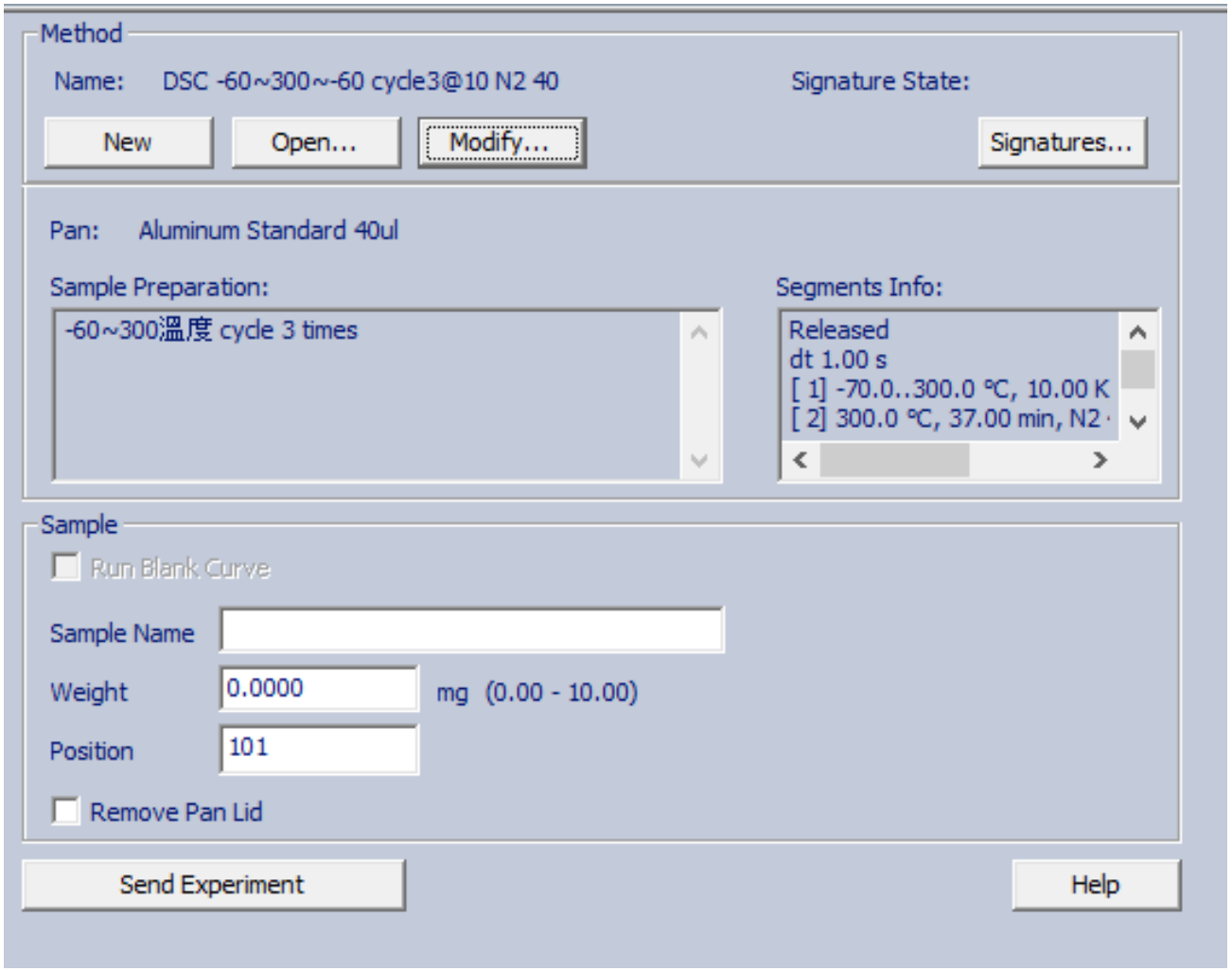
Method editor :







Method editor :



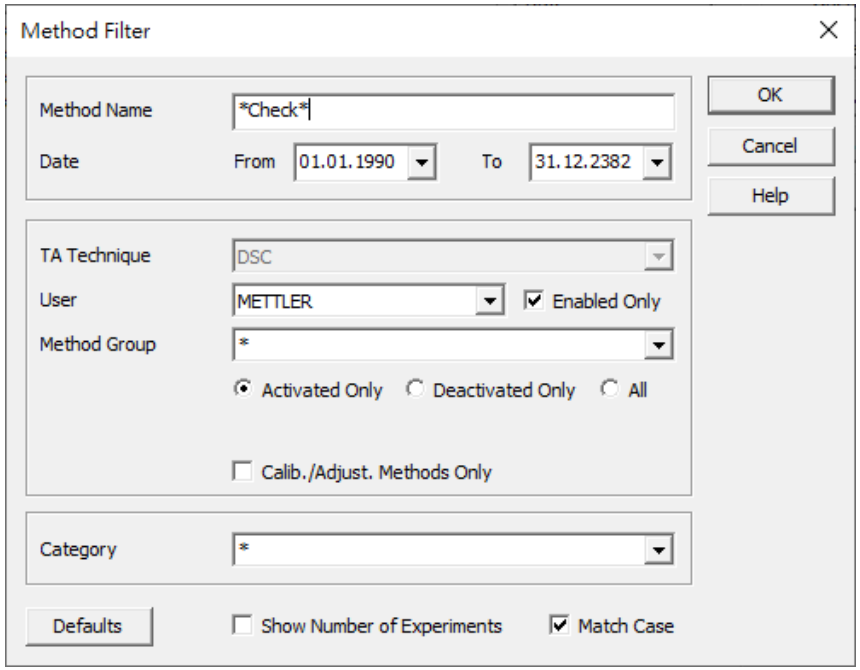
Method editor :

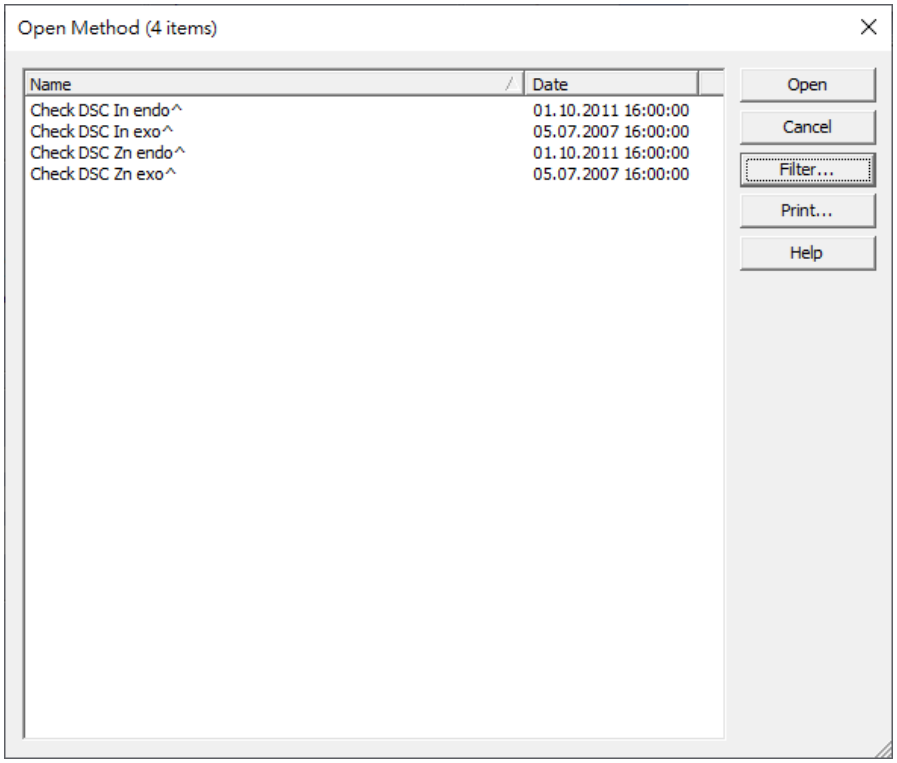
Open Method (30 items)

Name	Date
:Screen DSC Air, 25...300/10	05.05.1993 16:00:00
:Screen DSC N2, 25...300/10	05.05.1993 16:00:00
:Screen DSC O2, 25...300/10	05.05.1993 16:00:00
ADSC saw tooth 55>70 p=140s i=1°C	05.05.1994 16:00:00
ADSC sine 55>70 p=30s A=0.5°C i=1°C	05.05.1994 16:00:00
Calib DSC Heat Flow Single In	14.10.2010 16:00:00
Calib DSC Heat Flow Single Zn	14.10.2010 16:00:00
Calib DSC Taulag Single . . . . In	14.10.2010 16:00:00
Calib DSC Temp Multi . . . . In/Zn	14.10.2010 16:00:00
Calib DSC Temp Single . . In	14.10.2010 16:00:00
Calib DSC Temp Single . . Zn	14.10.2010 16:00:00
Calib DSC Temp TA4000 . . In/Pb/Zn	14.10.2010 16:00:00
Calib DSC Total . . . . . In/Zn	14.10.2010 16:00:00
Calib DSC Total n-C8H18/In	14.10.2010 16:00:00
Calib DSC Total Single H2O	01.10.2012 16:00:00
Calib DSC Total Single In	01.10.2012 16:00:00
Calib DSC Total Single n-C8H18	01.10.2012 16:00:00
Calib DSC Total Single Sn	01.10.2012 16:00:00
Calib DSC Total Single Zn	01.10.2012 16:00:00
Calib TC15 ADC DSC 25°C to 600°C	14.10.2010 16:00:00
Calib TC15 ADC DSC -170°C to 600°C	14.10.2010 16:00:00
Check DSC In endo^	01.10.2011 16:00:00
Check DSC In exo^	05.07.2007 16:00:00
Check DSC Zn endo^	01.10.2011 16:00:00
Check DSC Zn exo^	05.07.2007 16:00:00
M -65~300 20K/min	22.11.2019 17:13:27
M Burn@450 30min	22.04.2020 18:03:57
M TOPEM -60~200@1 P:0.5	22.11.2019 17:13:27
PE-Crystallinity	05.05.1994 16:00:00
景碩 DSC	13.05.2020 21:31:04

Open
Cancel
Filter...
Print...
Help

Method editor :





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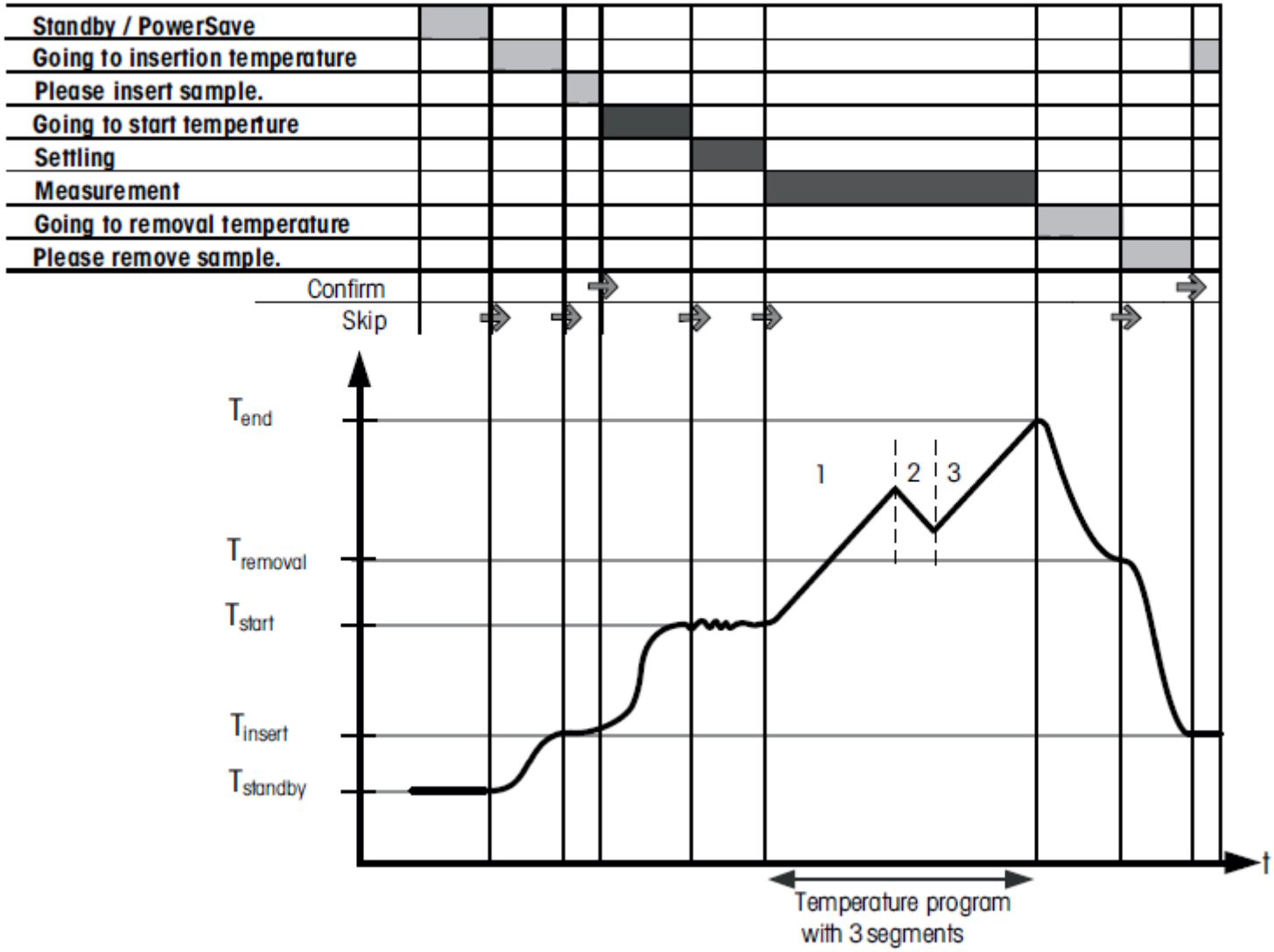

Standby / PowerSave
Going to insertion temperature
Please insert sample.
Going to start temperture
Settling
Measurement
Going to removal temperature
Please remove sample.
Confirm
Skip
T_{end}
$T_{removal}$
T_{start}
T_{insert}
$T_{standby}$
1
2
3
t
Temperature program
with 3 segments

Experiment stage	Comment	Display
Standby/ PowerSave	State of the measuring cell is in the operating state defined by the end behavior after the previous experiment • **Standby**: The measuring cell is at standby temperature. • **PowerSave**: The furnace is switched off.	Green
Going to insertion temperature		Green
Waiting for sample insertion	Must be confirmed.	Green
Going to start temperature		Red

Experiment stage	Comment	Display
Settling	The TA module settles the start temperature before the measurement.	Red
Measurement	This is the actual measurement stage.	Red
Going to removal temperature		Green
Waiting for sample removal	Must be confirmed.	Green

Temperature symbols

$T_{standby}$	Standby temperature *
T_{end}	End temperature of temperature program **
$T_{removal}$	Removal temperature **
T_{start}	Start temperature **
T_{insert}	Insertion temperature **

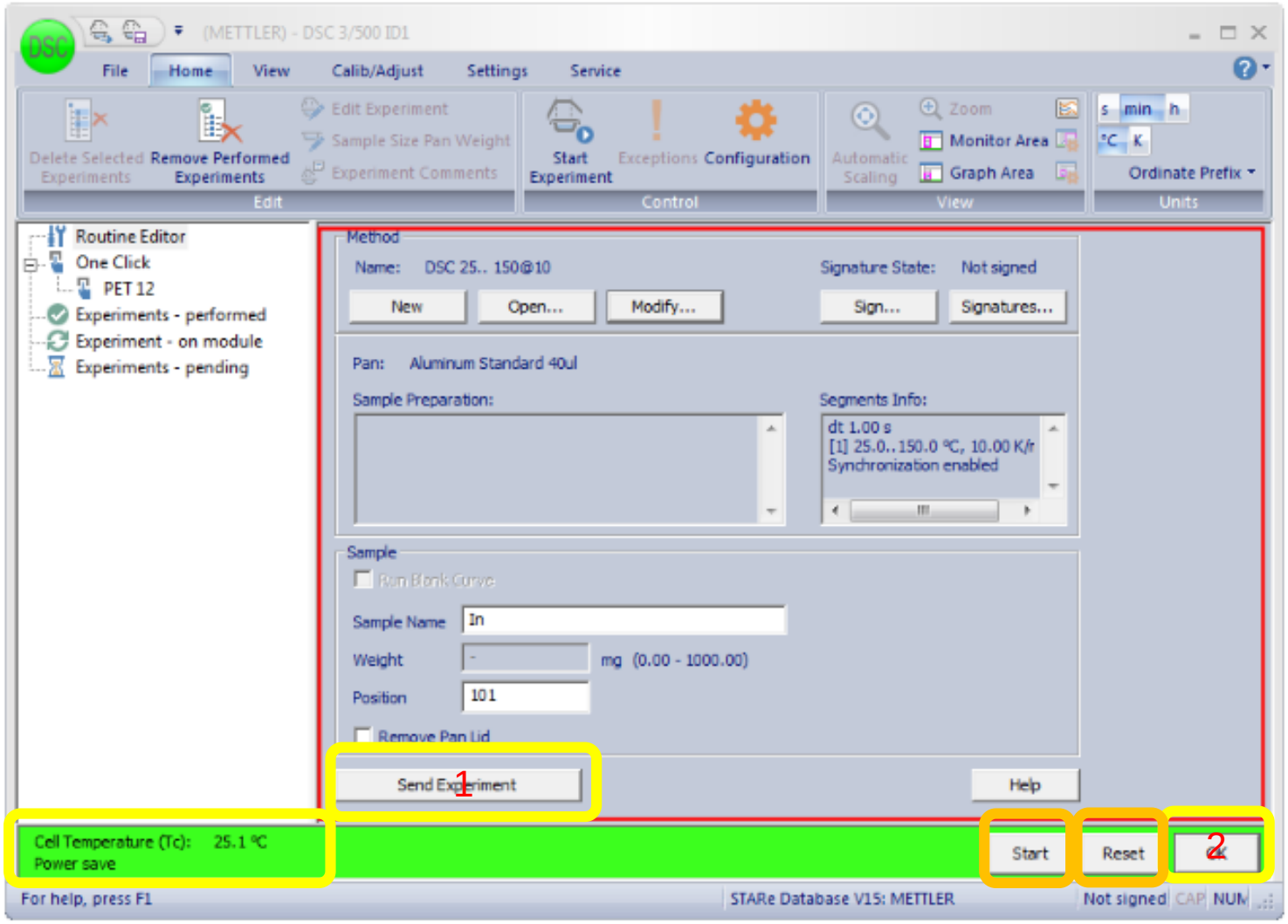
* Is defined in the module dataset of the STARe Software.

** Is defined in the method.

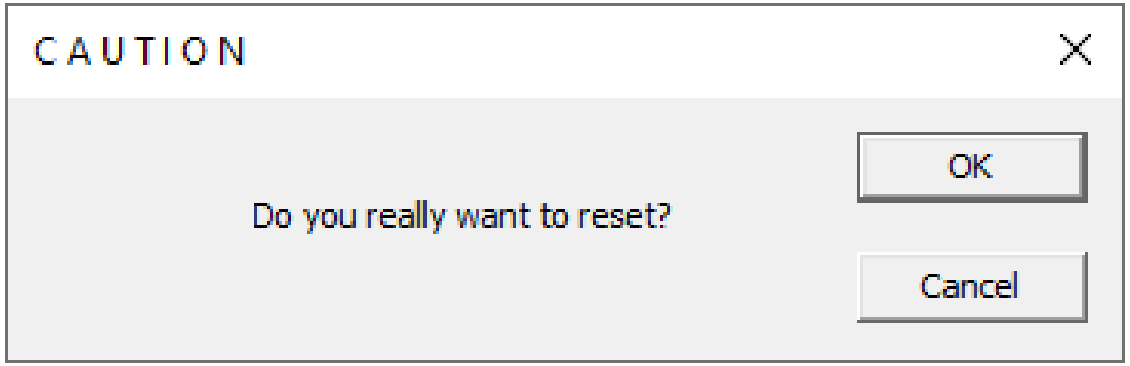
LED 訊號燈

顯示情形	操作狀況
綠色，持續亮	待機狀況
綠色，閃爍	等待放入樣品 等待夾出樣品
紅色，持續亮	測量
紅色，閃爍	錯誤 或 警告

Experiment Editor:



Experiment Editor:



Experiment Editor:

1. Send Experiment
2. 當爐體抵達到達Insert Temperature(放入樣品溫度)到達後，視窗會自動出現提示，即可放入樣品。
3. 在藍色DSC感測器上左邊位置(S)放置樣品坩堝右邊位置(R)放置參比空坩堝
4. 按OK確認後，實驗自動執行
5. 實驗完成後，按視窗指示取出樣品後按OK 鍵確認後可進行下一個實驗
6. 實驗過程中，使用者可以在儀器控制視窗中，監視實驗及時曲線。

- 實驗執行過程中，如有必要時可以隨時終止實驗。單擊儀器控制視窗中的RESET按鈕，會自動跳出對話視窗再次確認，按OK再確認
- 如果實驗是被Reset，終止的則進行下一個實驗時，須單擊功能表單Start 控制/開始實驗。
- 進行中的實驗被終止，儀器恢復到測試前狀態。
- 被終止的實驗中，已完成的測試曲線實驗圖形仍被儲存

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Module Control Window

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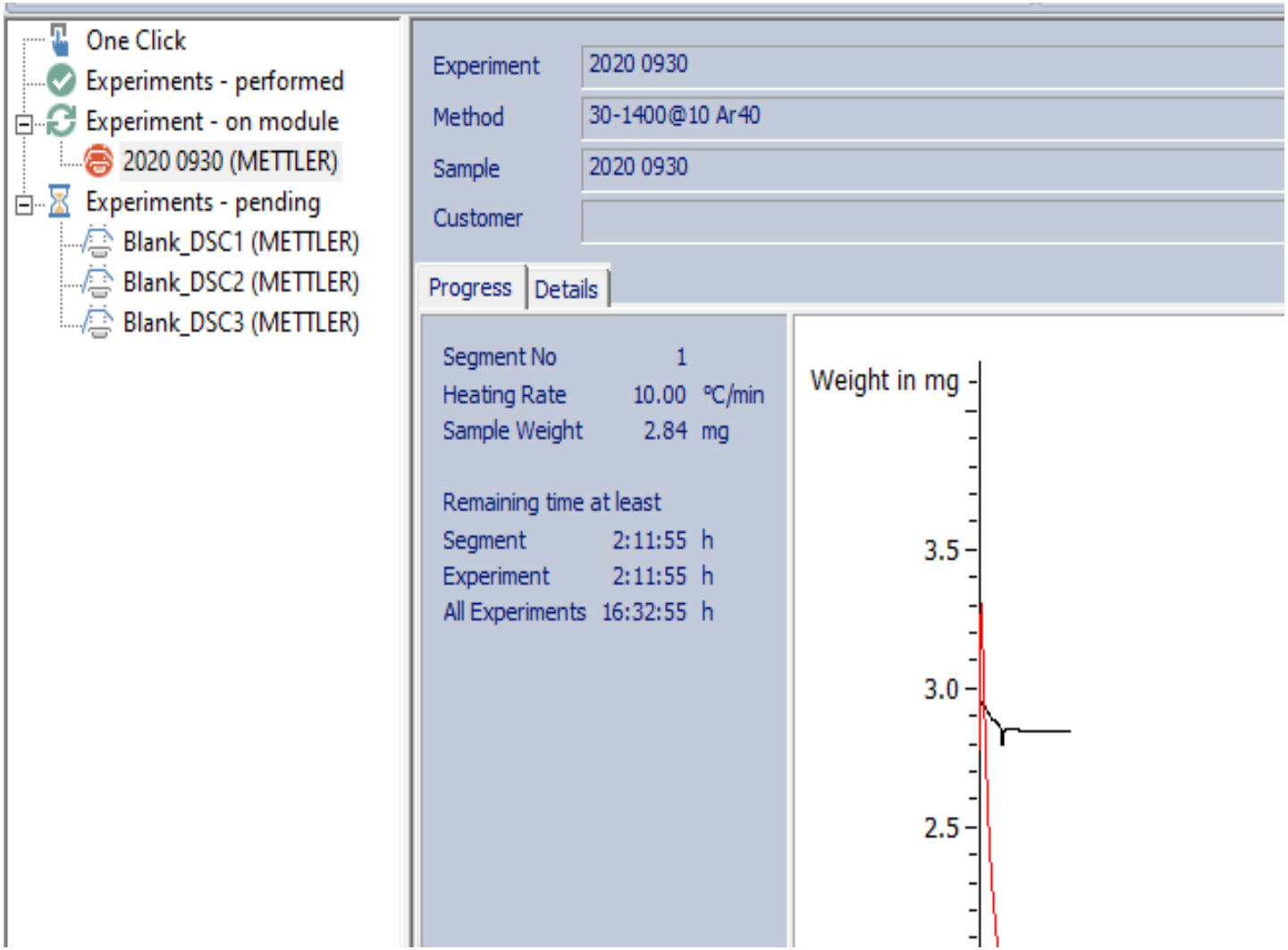
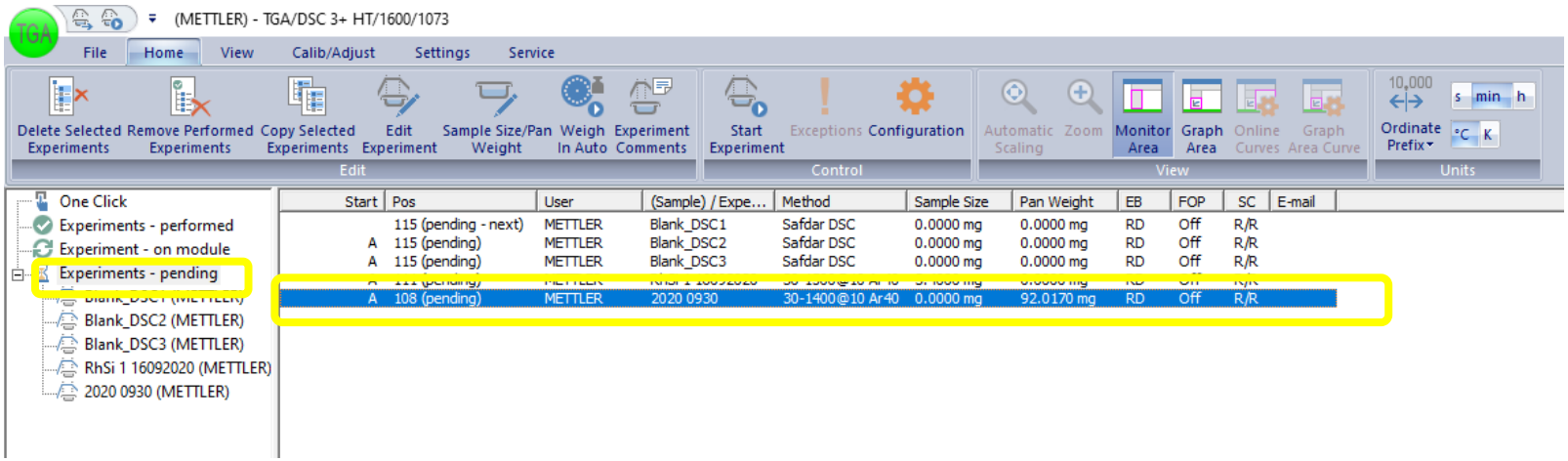
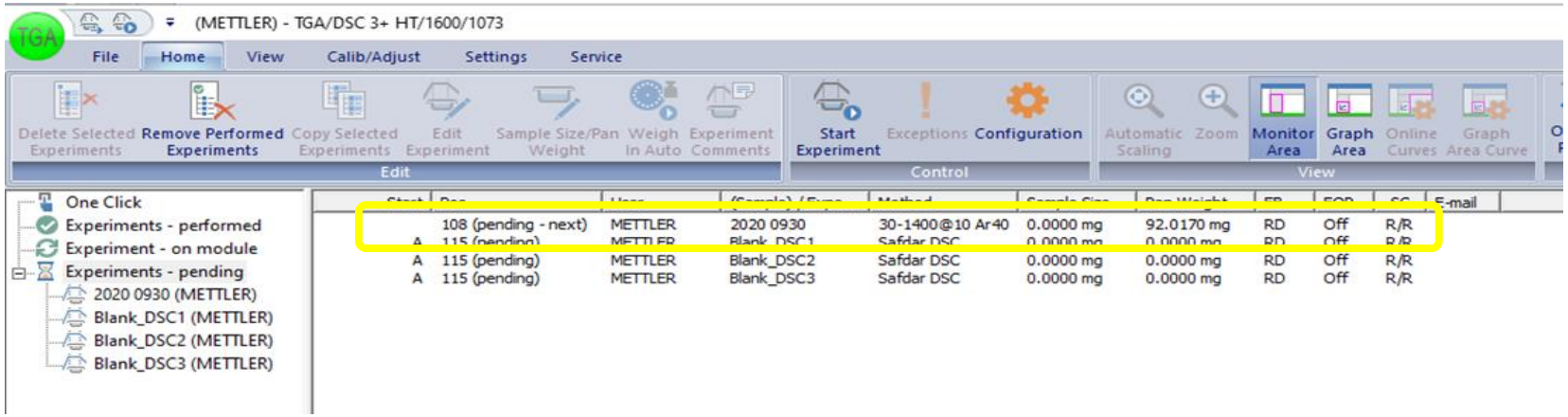


Module Control Window

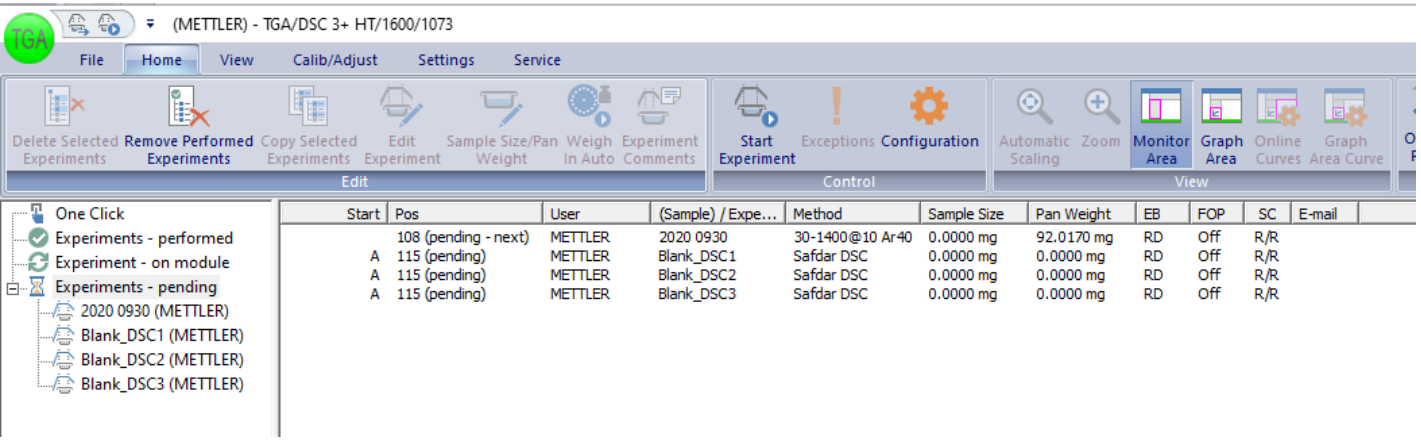
METTLER TOLEDO





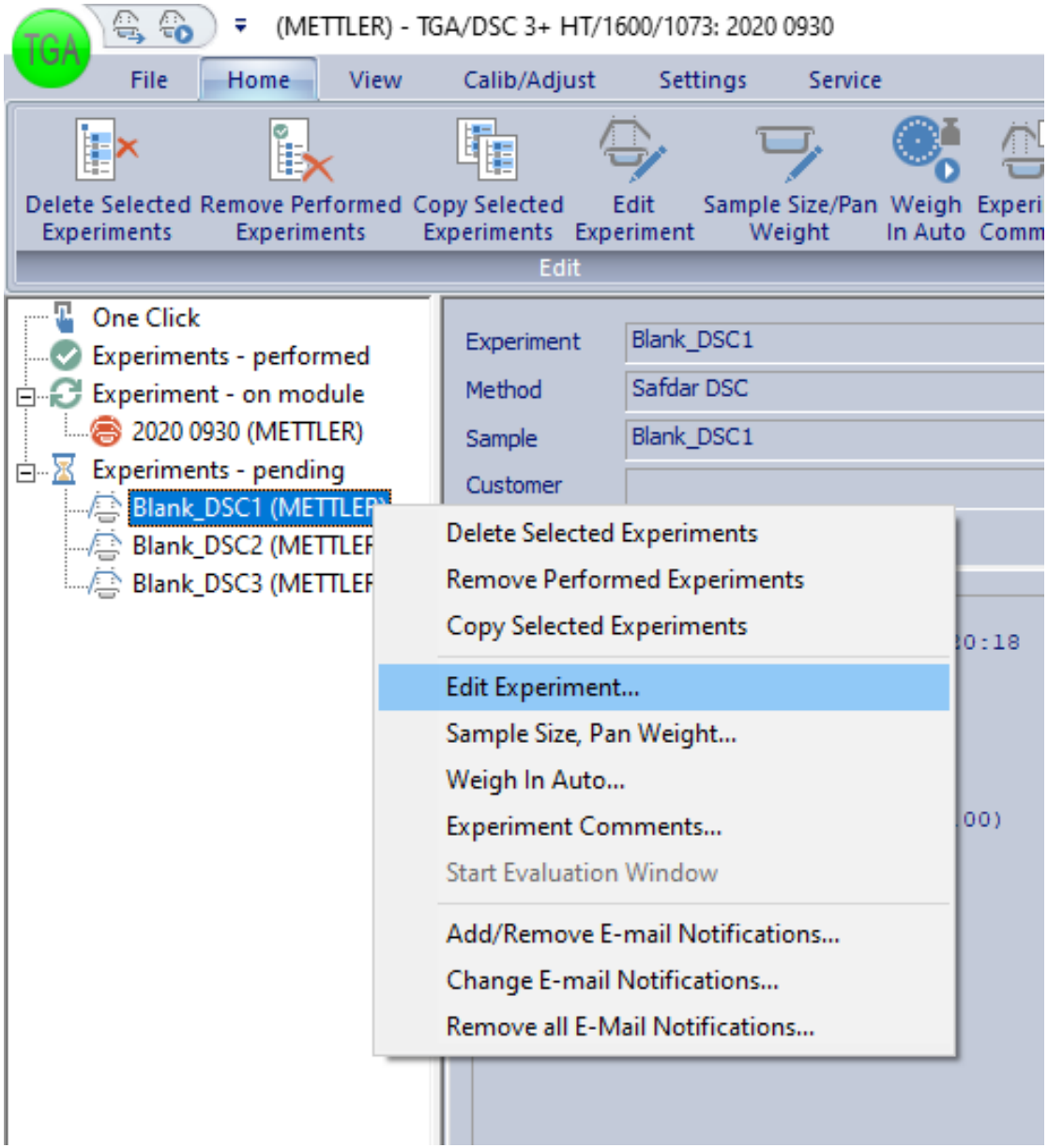
Module Control Window

METTLER TOLEDO



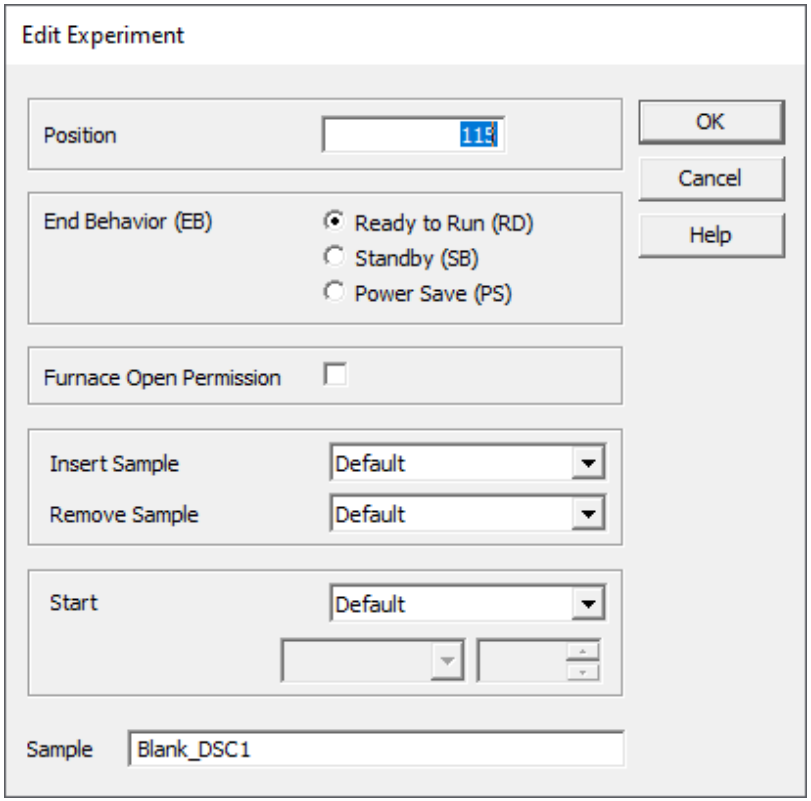
Module Control Window

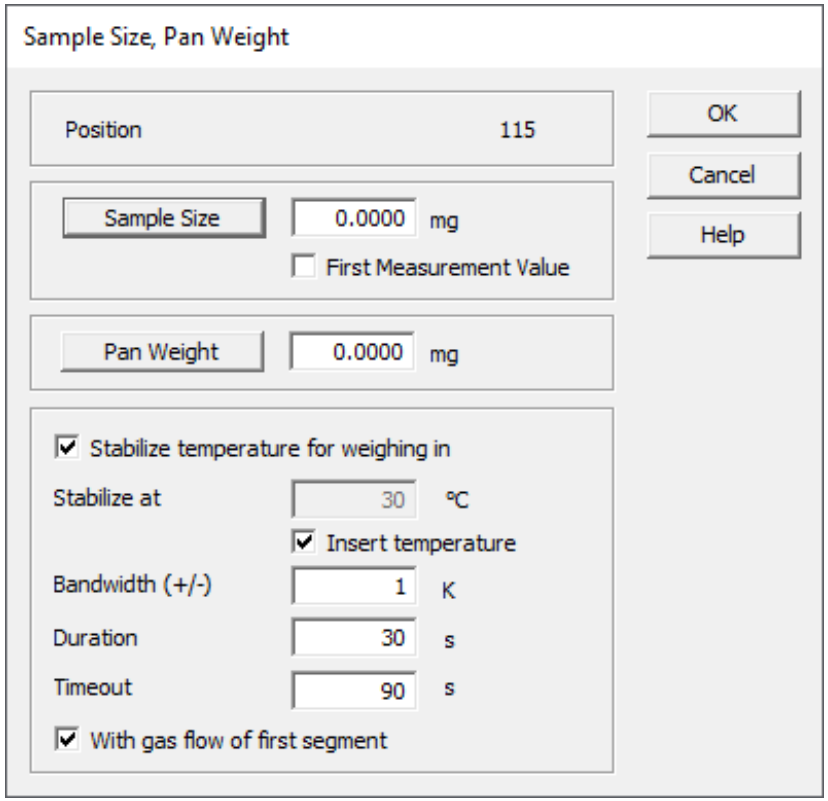
METTLER TOLEDO



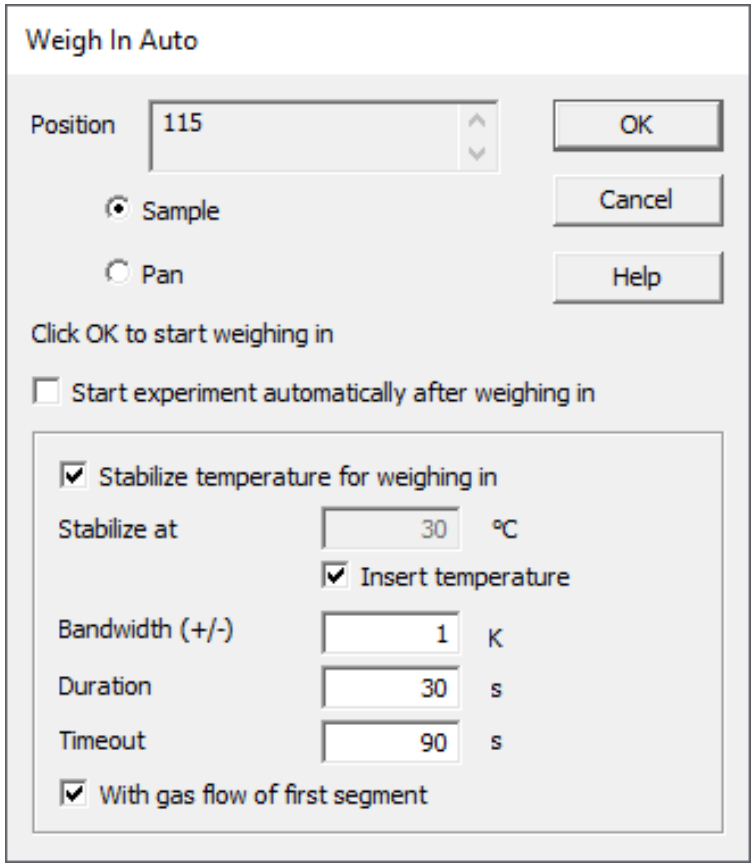
Module Control Window

METTLER TOLEDO

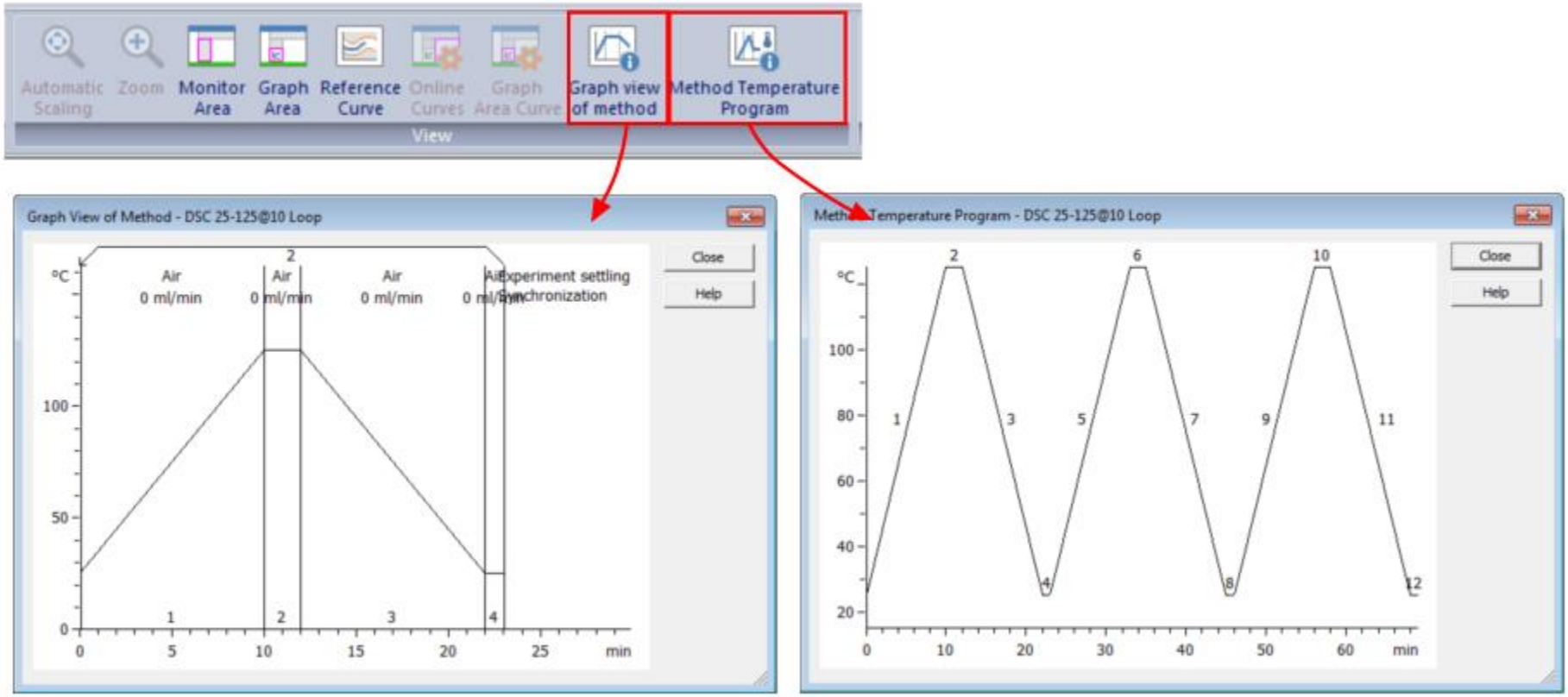


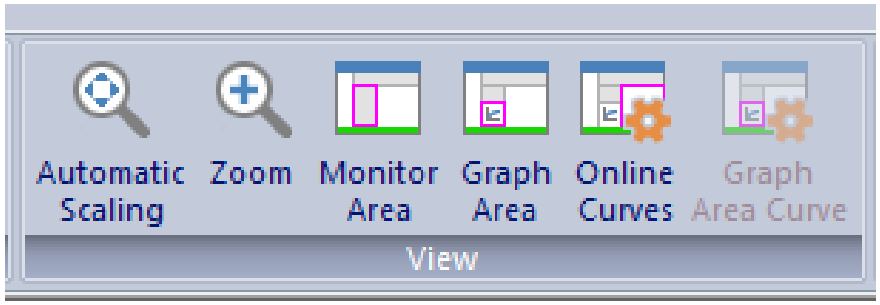


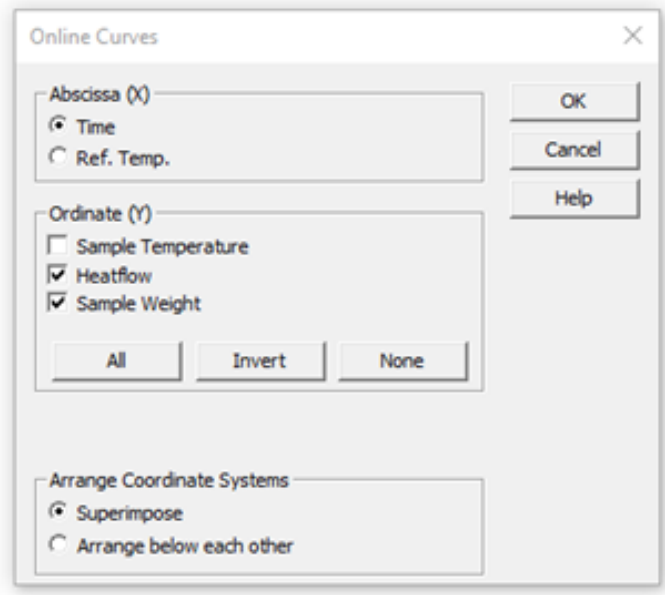
Module Control Window



Module Control Window




Automatic Scaling
Zoom
Monitor Area
Graph Area
Online Curves
Graph Area Curve
View


Online Curves
Abscissa (X)
Time
Ref. Temp.
Ordinate (Y)
Sample Temperature
Heatflow
Sample Weight
All
Invert
None
Arrange Coordinate Systems
Superimpose
Arrange below each other
OK
Cancel
Help

Thank You

METTLER TOLEDO