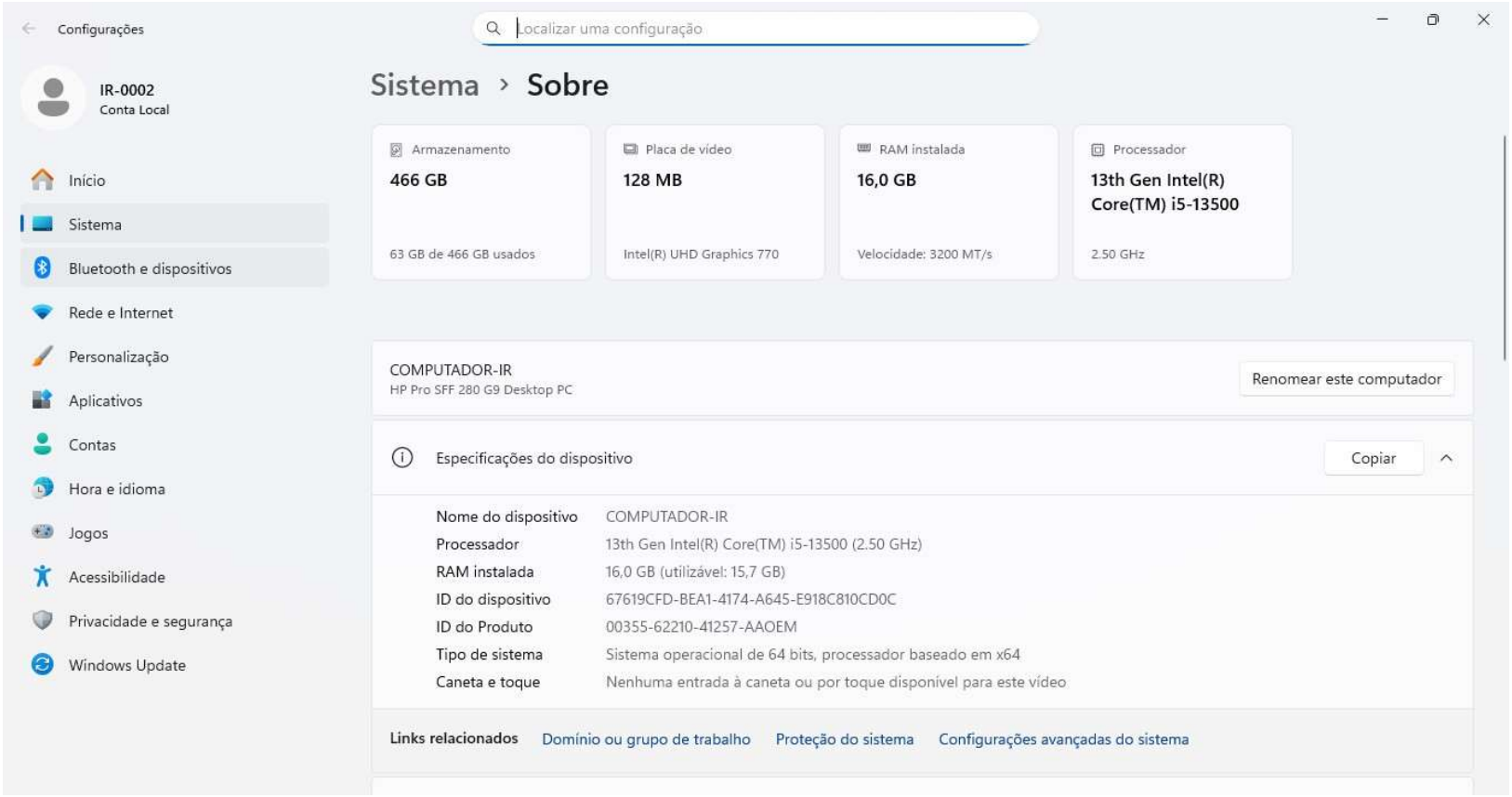
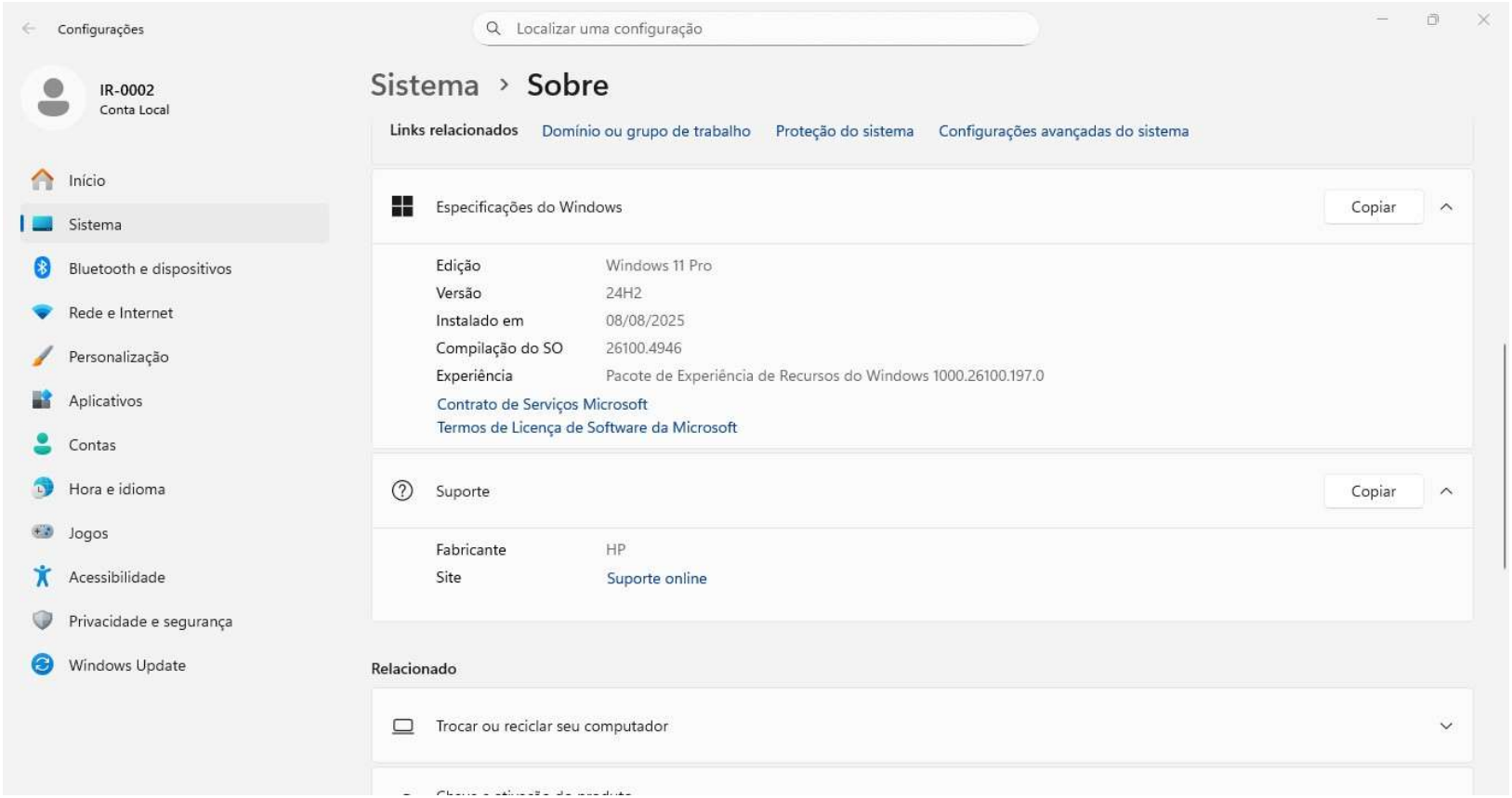
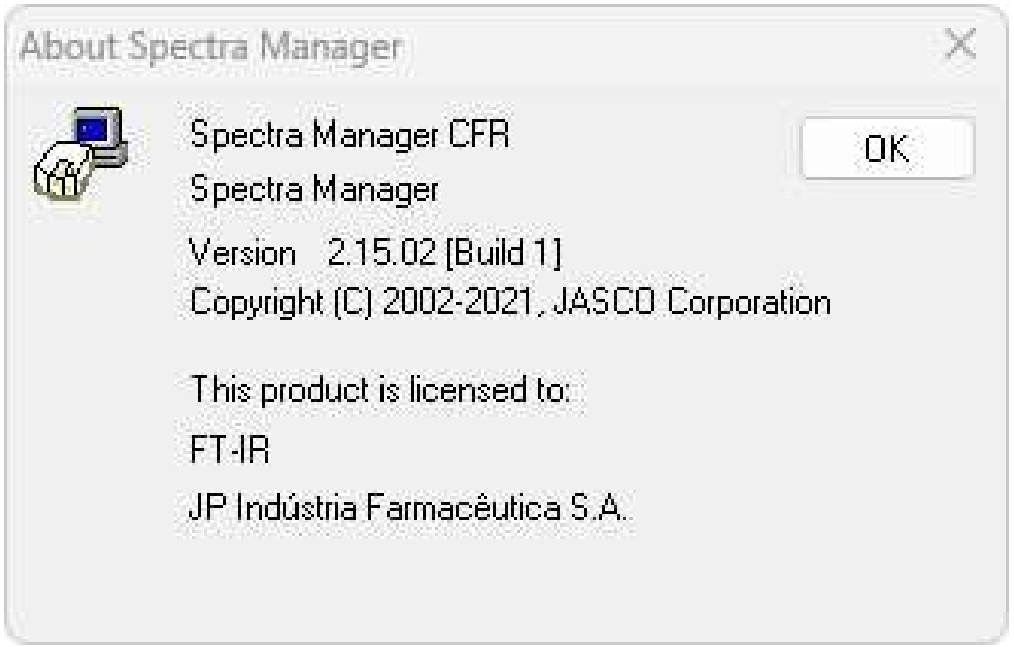
Anexo - 1


Configurações
Localizar uma configuração
IR-0002
Conta Local
Início
Sistema
Bluetooth e dispositivos
Rede e Internet
Personalização
Aplicativos
Contas
Hora e idioma
Jogos
Acessibilidade
Privacidade e segurança
Windows Update
Sistema › Sobre
Armazenamento
466 GB
63 GB de 466 GB usados
Placa de vídeo
128 MB
Intel(R) UHD Graphics 770
RAM instalada
16,0 GB
Velocidade: 3200 MT/s
Processador
13th Gen Intel(R) Core(TM) i5-13500
2.50 GHz
COMPUTADOR-IR
HP Pro SFF 280 G9 Desktop PC
Renomear este computador
Especificações do dispositivo
Copiar
Nome do dispositivo COMPUTADOR-IR
Processador 13th Gen Intel(R) Core(TM) i5-13500 (2.50 GHz)
RAM instalada 16,0 GB (utilizável: 15,7 GB)
ID do dispositivo 67619CFD-BEA1-4174-A645-E918C810CD0C
ID do Produto 00355-62210-41257-AAOEM
Tipo de sistema Sistema operacional de 64 bits, processador baseado em x64
Caneta e toque Nenhuma entrada à caneta ou por toque disponível para este vídeo
Links relacionados
Domínio ou grupo de trabalho
Proteção do sistema
Configurações avançadas do sistema

Anexo - 2


Configurações
Localizar uma configuração
IR-0002
Conta Local
Início
Sistema
Bluetooth e dispositivos
Rede e Internet
Personalização
Aplicativos
Contas
Hora e idioma
Jogos
Acessibilidade
Privacidade e segurança
Windows Update
Sistema › Sobre
Links relacionados
Domínio ou grupo de trabalho
Proteção do sistema
Configurações avançadas do sistema
Especificações do Windows
Copiar
Edição
Windows 11 Pro
Versão
24H2
Instalado em
08/08/2025
Compilação do SO
26100.4946
Experiência
Pacote de Experiência de Recursos do Windows 1000.26100.197.0
Contrato de Serviços Microsoft
Termos de Licença de Software da Microsoft
Suporte
Copiar
Fabricante
HP
Site
Suporte online
Relacionado
Trocar ou reciclar seu computador

Anexo - 3


About Spectra Manager
Spectra Manager CFR
Spectra Manager
Version 2.15.02 [Build 1]
Copyright (C) 2002-2021, JASCO Corporation
OK
This product is licensed to:
FT-IR
JP Indústria Farmacêutica S.A.

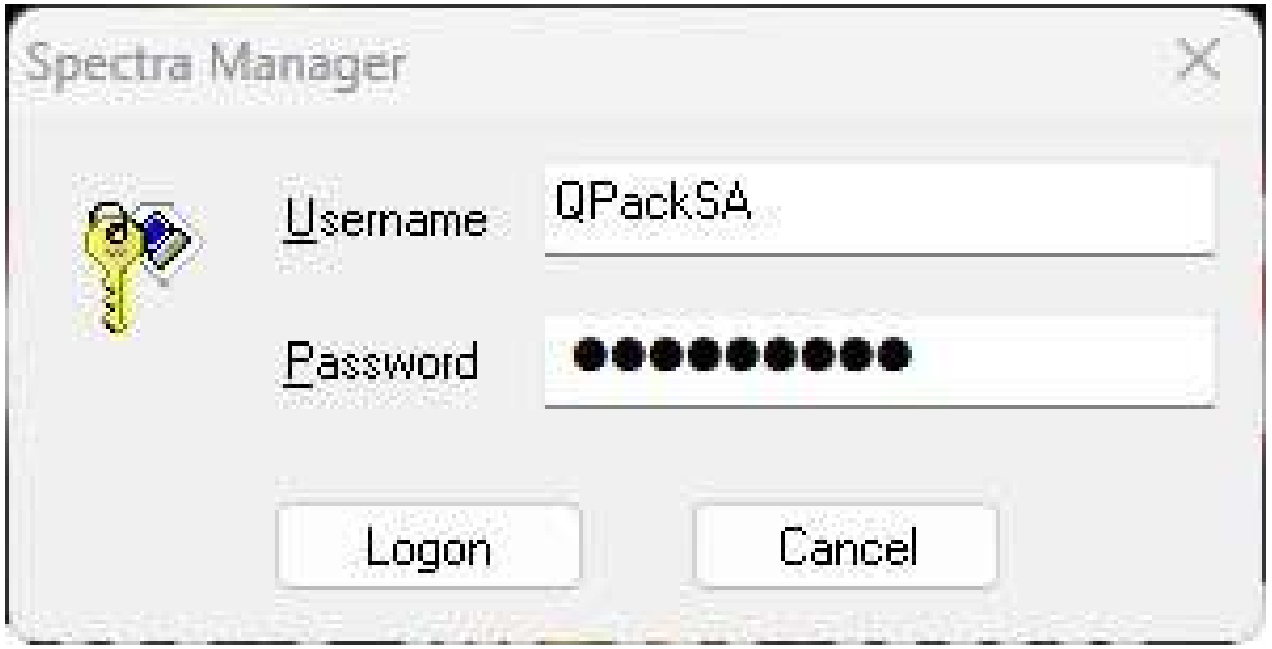
Anexo - 4


System Detail Information
Date : 21/08/2025 15:22:00 (UTC-3:00)
----------Windows Info.----------
OS Version : 10.0, Build[26100], PlatformID : 2
Processor : x64 (AMD or Intel)
Num. of Core : 20
Implemented memory: 15.69 GB
MAC Address : d0:00:05:23:22:d0
----------SpectraManager Info.----------
Company : JP Indústria Farmacêutica S.A.
UserName : FT-IR
SerialNo : 3PM-BU2-00000595
HomeFolder : C:\Program Files (x86)\JASCO\SpectraManager
----------Installed Drivers Info.----------
Name : FTIR Control Driver, Version : 2.23.7.1
----------Registered Spectrometers Info.----------
Model : FT/IR-4100, Name : IR-0002, Serial : B139261016
Accessories
Name : ATR-PRO-450/S, DispName : ATR PRO450-S, Se
----------Modules Info.----------
CD2DataProcUI.dll 2, 5, 4, 1 2021/10/12 13:50:36
CDMeasParam.dll 2, 2, 22, 1 2017/06/06 18:42:16
CDMeasParamUS.dll 1, 0, 14, 1 2017/06/06 18:42:18
CurveFitParFile.dll 1, 1, 0, 4 2011/04/26 15:32:32
CurveFitResult.dll 1, 3, 1, 4 2017/11/08 09:08:54
DataCmpRsltObj.dll 1, 3, 2, 2 2017/03/02 08:53:46
Def_form.ini 2000/03/13 22:24:06
DwnLd021.exe 2, 1, 0, 1 2017/02/02 16:45:50
Edit021.exe 1, 2, 1, 1 2018/10/25 08:37:46
EZ_IRFile.dll 1, 1, 0, 1 2007/10/25 15:27:34
FPMeasParam.dll 2, 4, 0, 1 2016/12/22 13:59:04
FPMeasParamUS.dll 1, 0, 6, 2 2015/07/13 17:50:34
Export...
Close

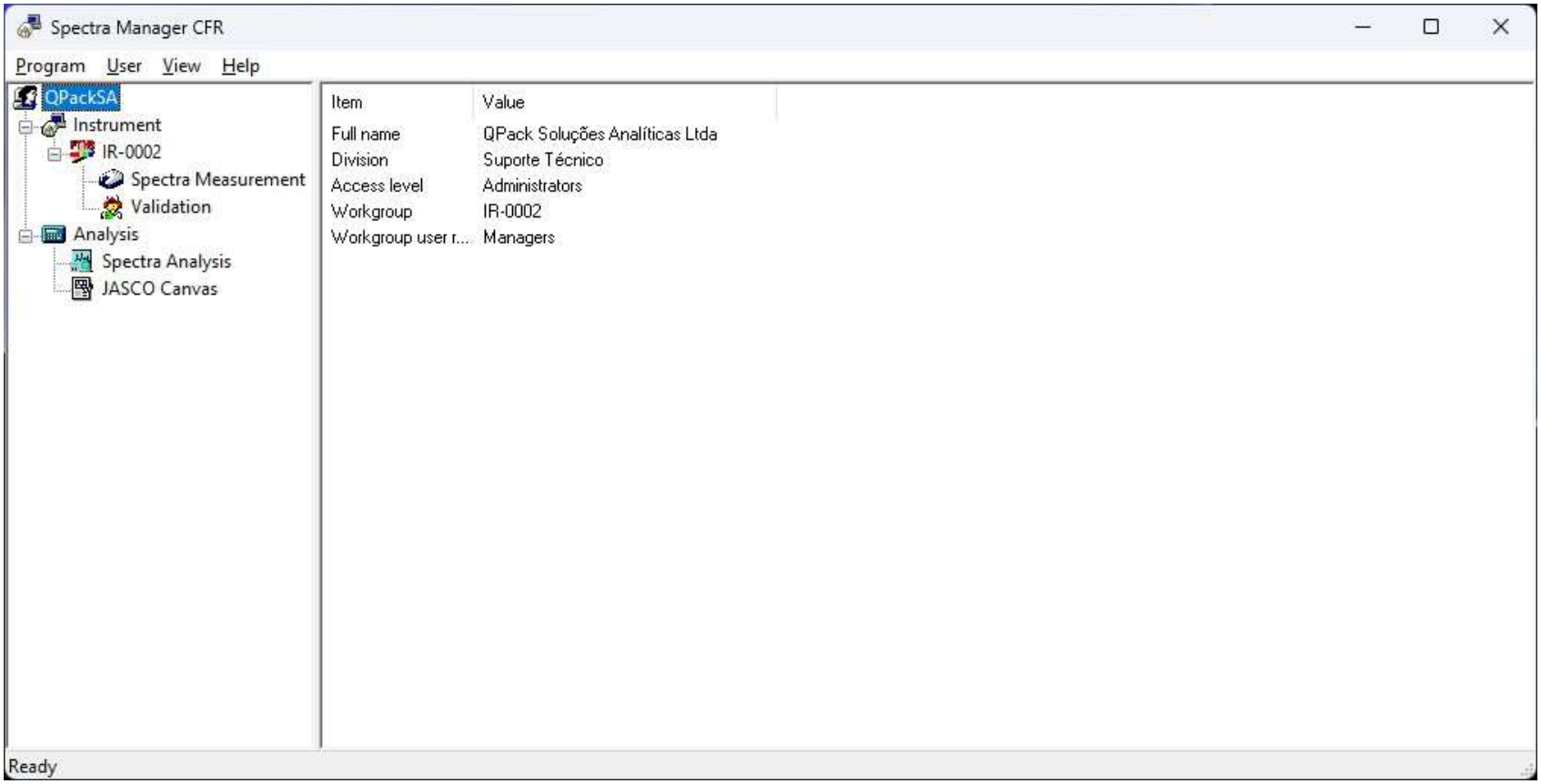
Anexo - 5


Spectra Manager
Username
Password
Logon
Cancel
Spectra Manager CFR
Copyright©1995-2018,JASCO Corporation

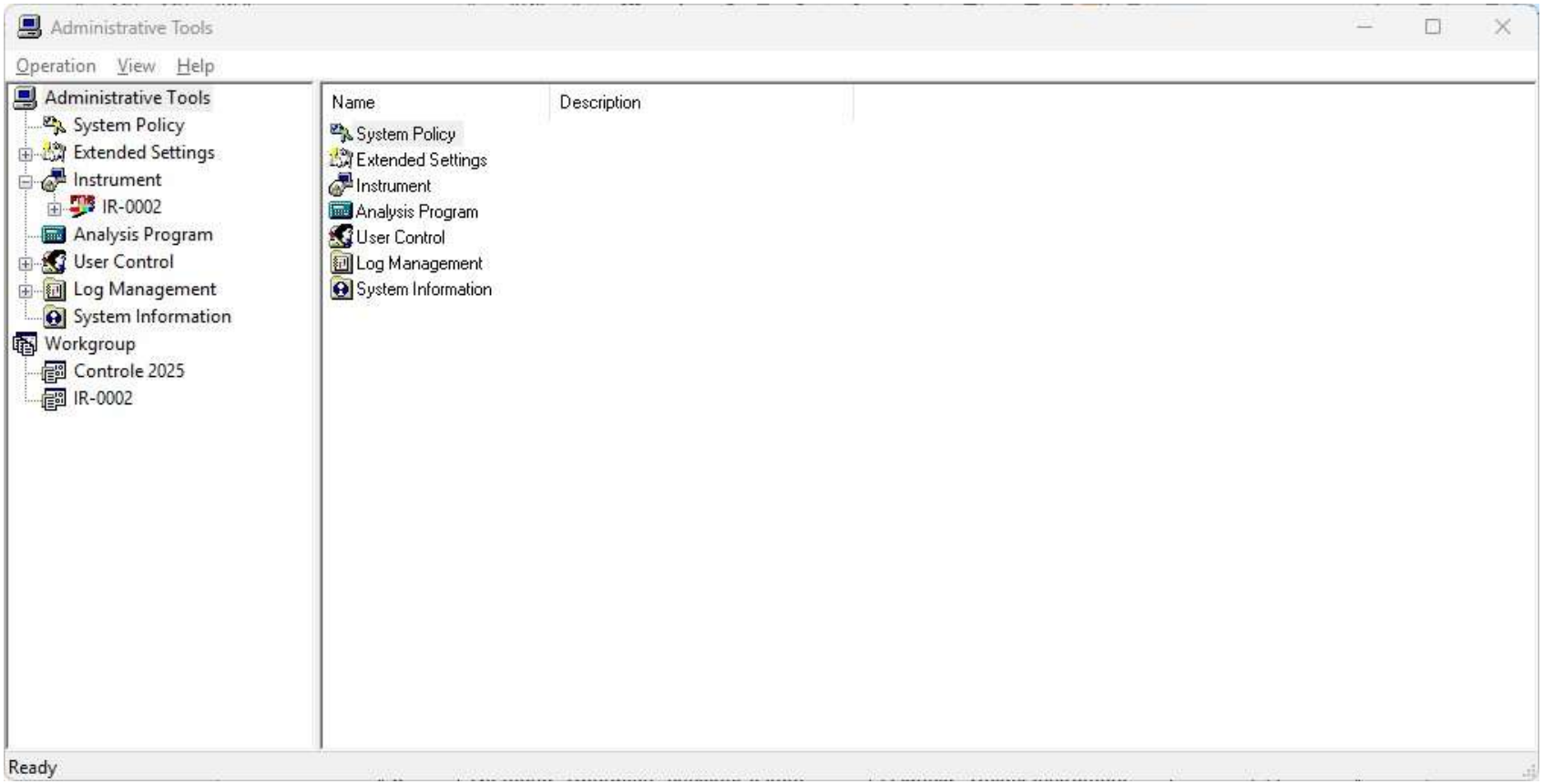
Anexo - 6



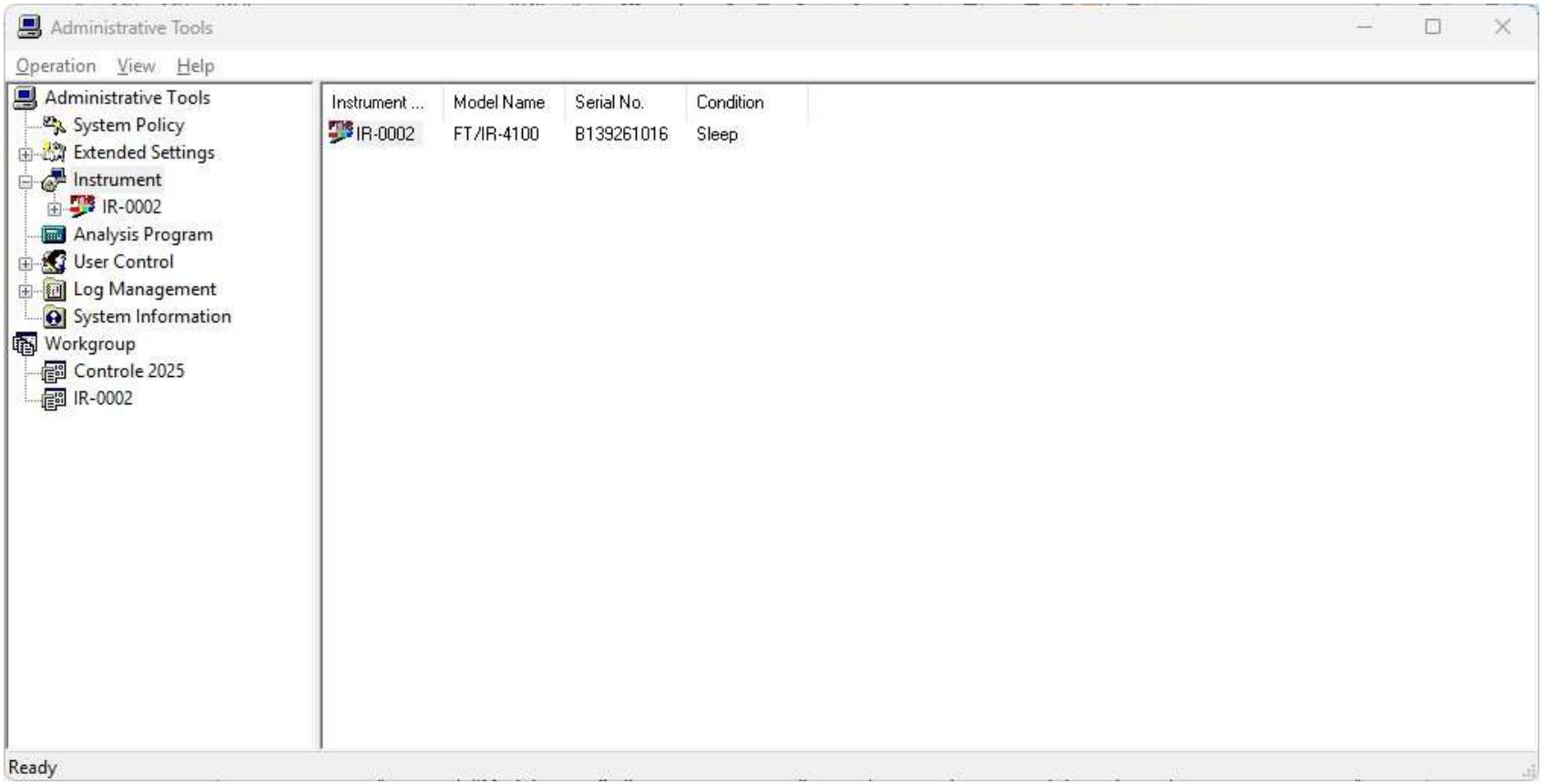
Anexo - 7


Spectra Manager CFR
Program
User
View
Help
QPackSA
Instrument
IR-0002
Spectra Measurement
Validation
Analysis
Spectra Analysis
JASCO Canvas
Item
Value
Full name
QPack Soluções Analíticas Ltda
Division
Suporte Técnico
Access level
Administrators
Workgroup
IR-0002
Workgroup user r...
Managers
Ready

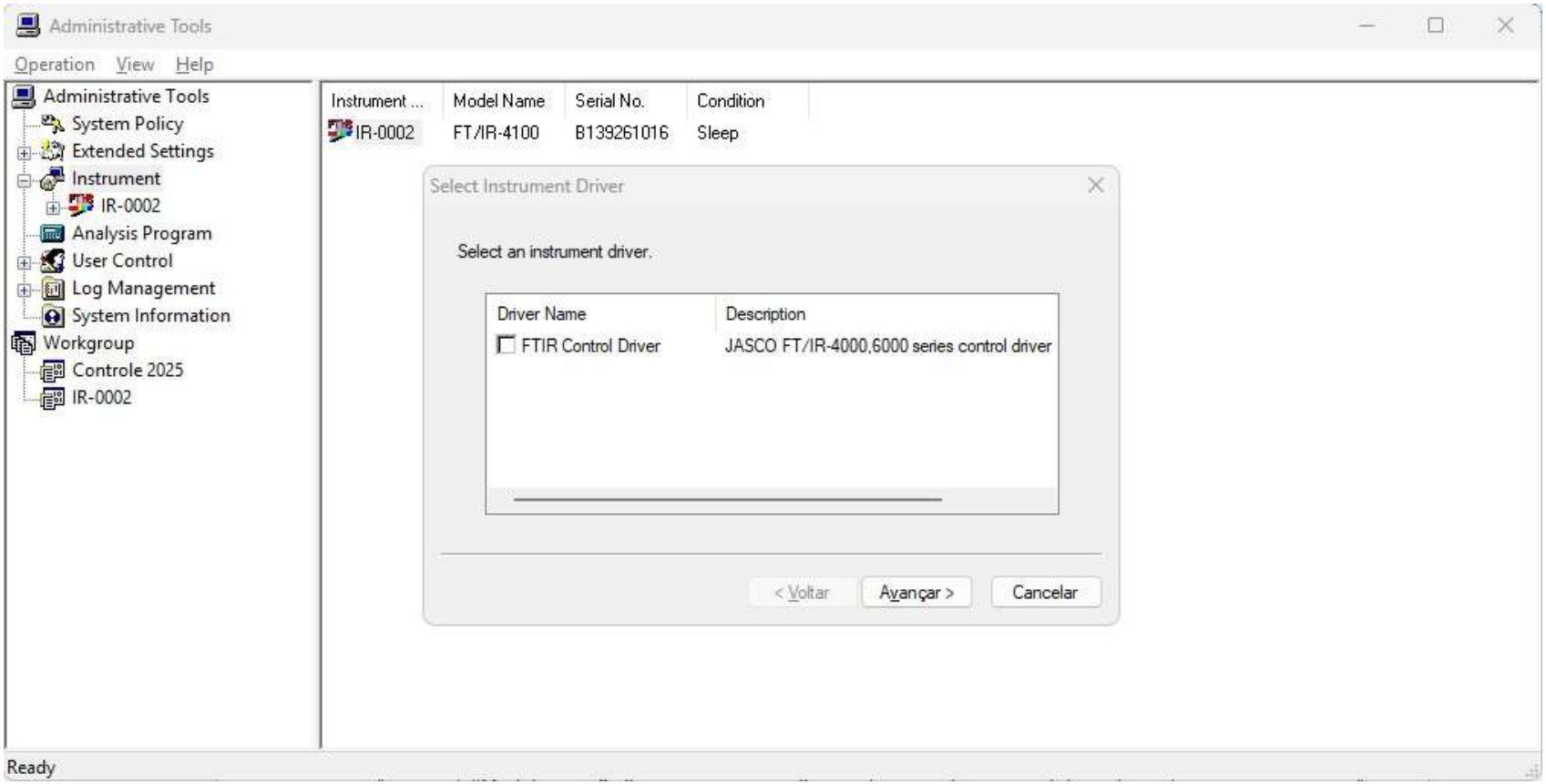
Anexo - 8


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
Analysis Program
User Control
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Name
Description
System Policy
Extended Settings
Instrument
Analysis Program
User Control
Log Management
System Information
Ready

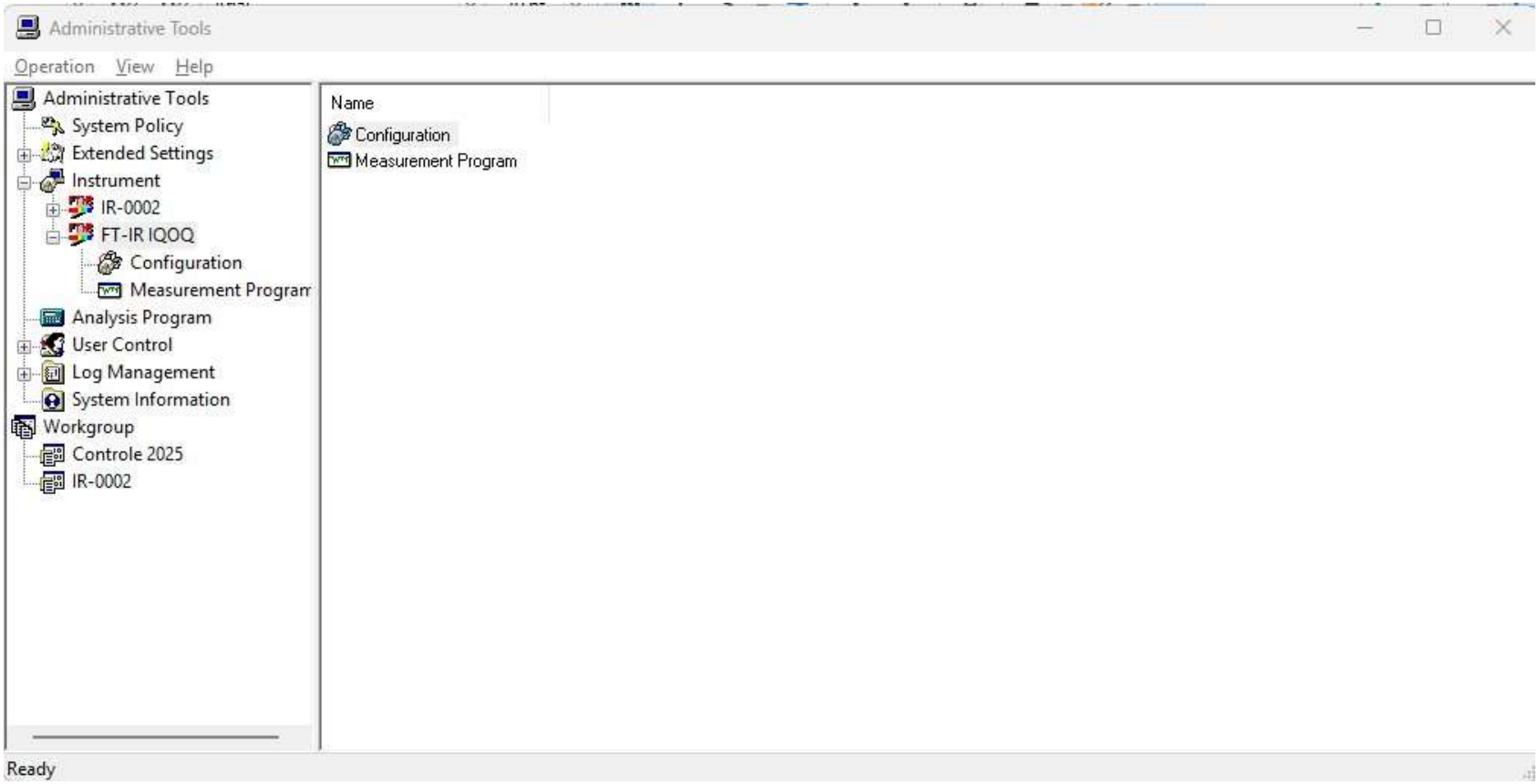
Anexo - 9


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
Analysis Program
User Control
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Instrument ...
Model Name
Serial No.
Condition
IR-0002
FT/IR-4100
B139261016
Sleep
Ready

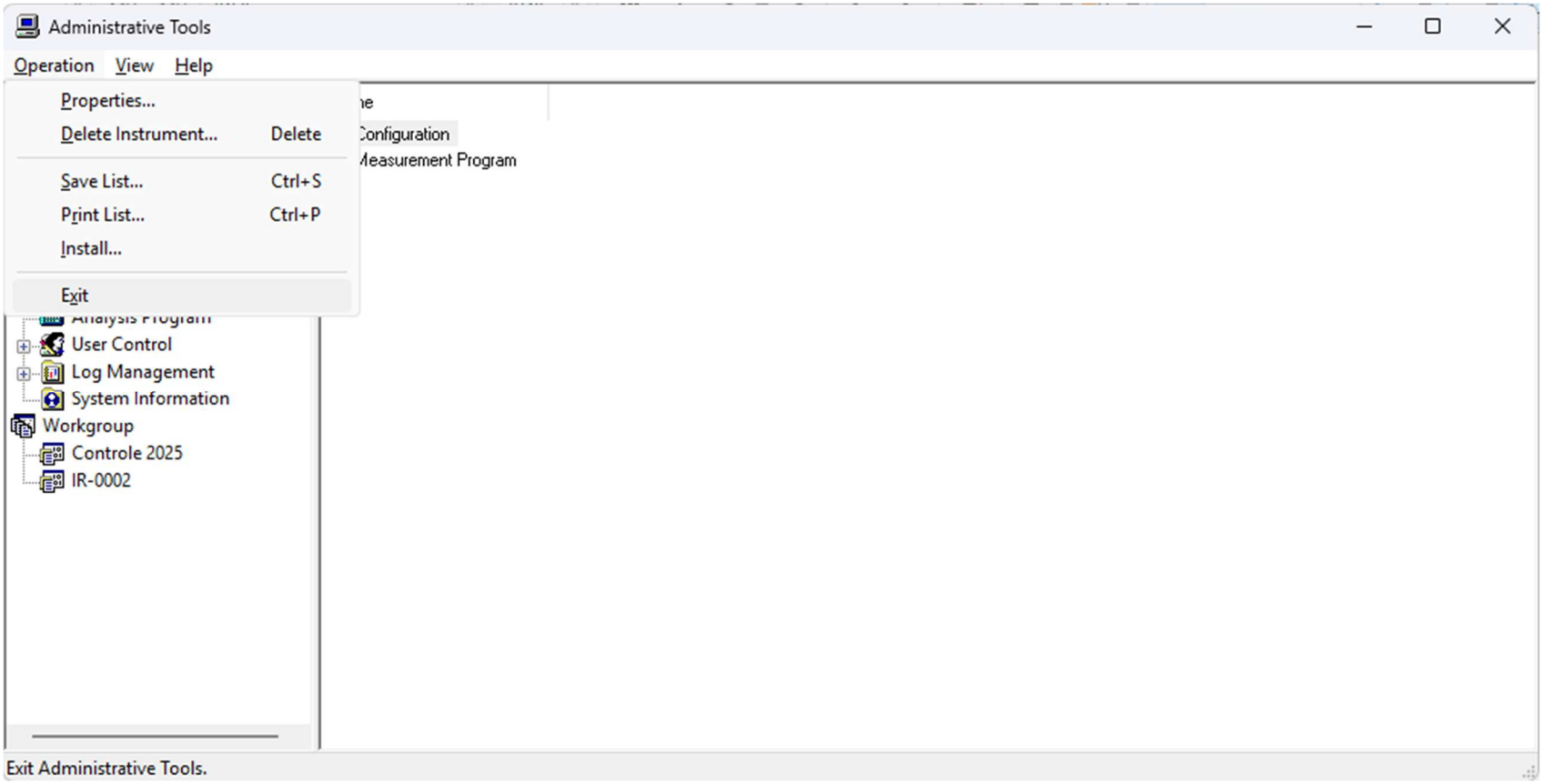
Anexo - 10


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
Analysis Program
User Control
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Instrument ...
Model Name
Serial No.
Condition
IR-0002
FT/IR-4100
B139261016
Sleep
Select Instrument Driver
Select an instrument driver.
Driver Name
Description
FTIR Control Driver
JASCO FT/IR-4000,6000 series control driver
< Voltar
Avançar >
Cancelar
Ready

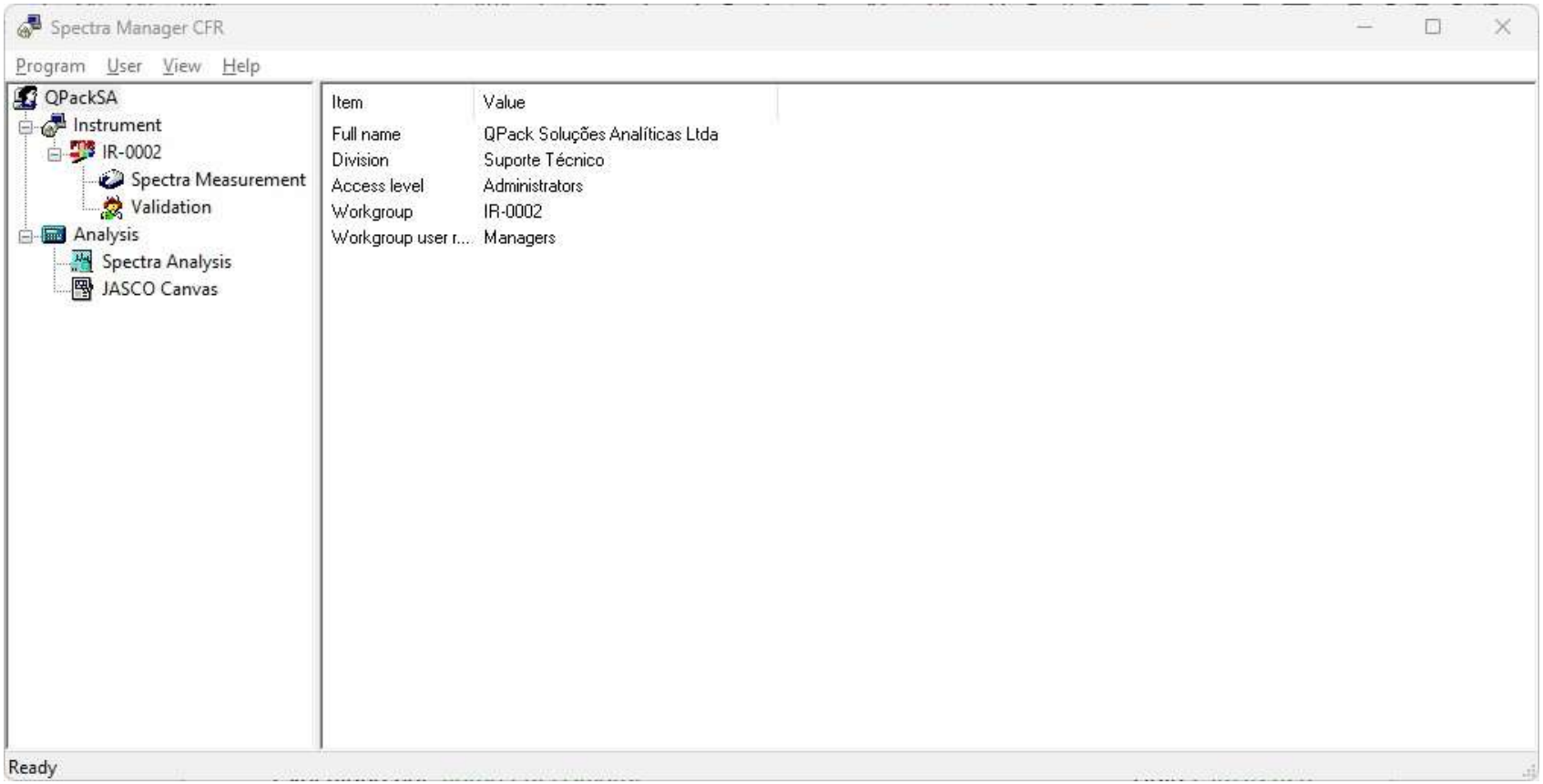
Anexo - 11


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
FT-IR IQOQ
Configuration
Measurement Program
Analysis Program
User Control
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Name
Configuration
Measurement Program
Ready

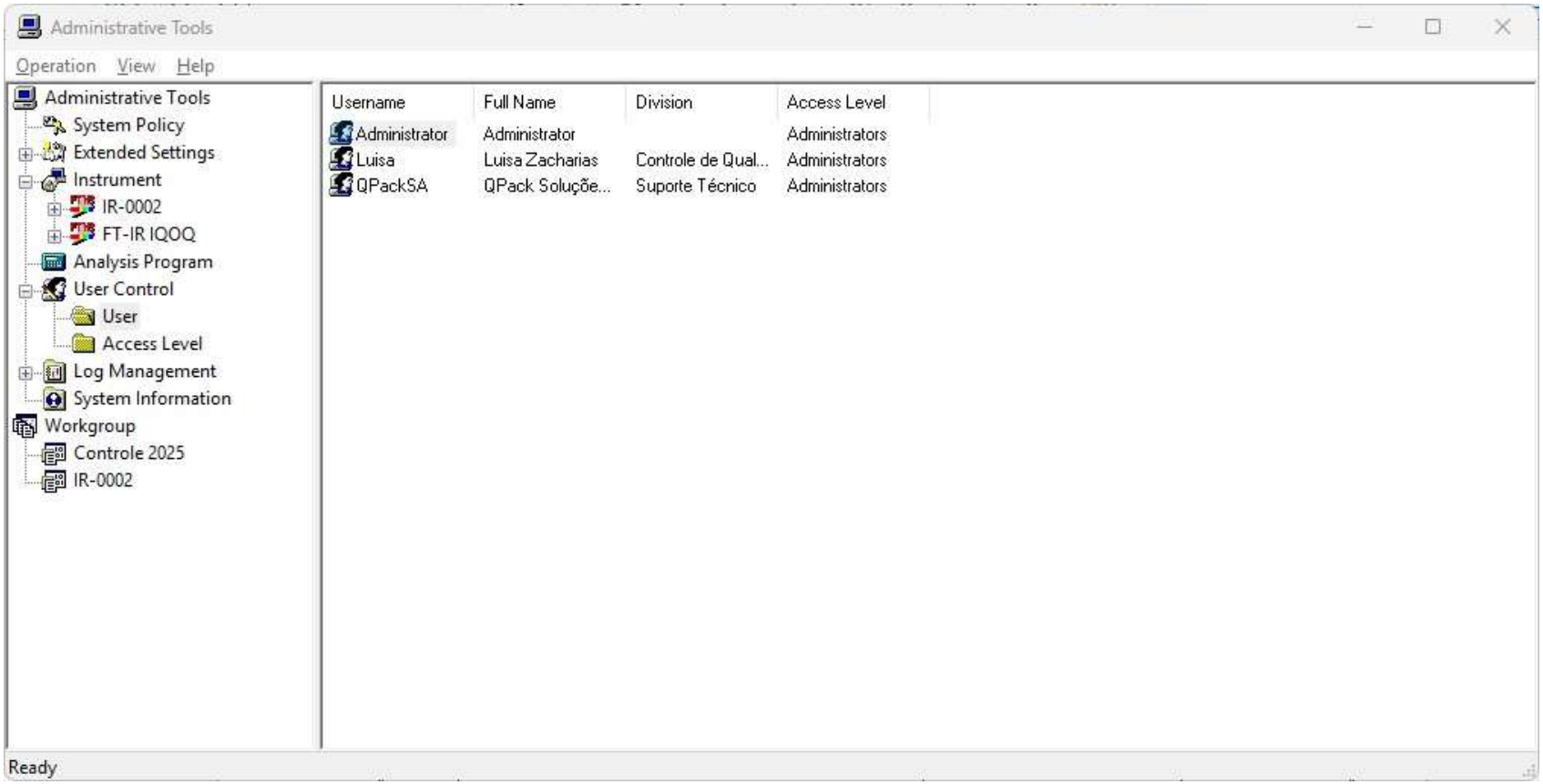
Anexo - 12


Administrative Tools
Operation View Help
Properties...
Delete Instrument... Delete
Save List... Ctrl+S
Print List... Ctrl+P
Install...
Exit
Configuration
Measurement Program
User Control
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Exit Administrative Tools.

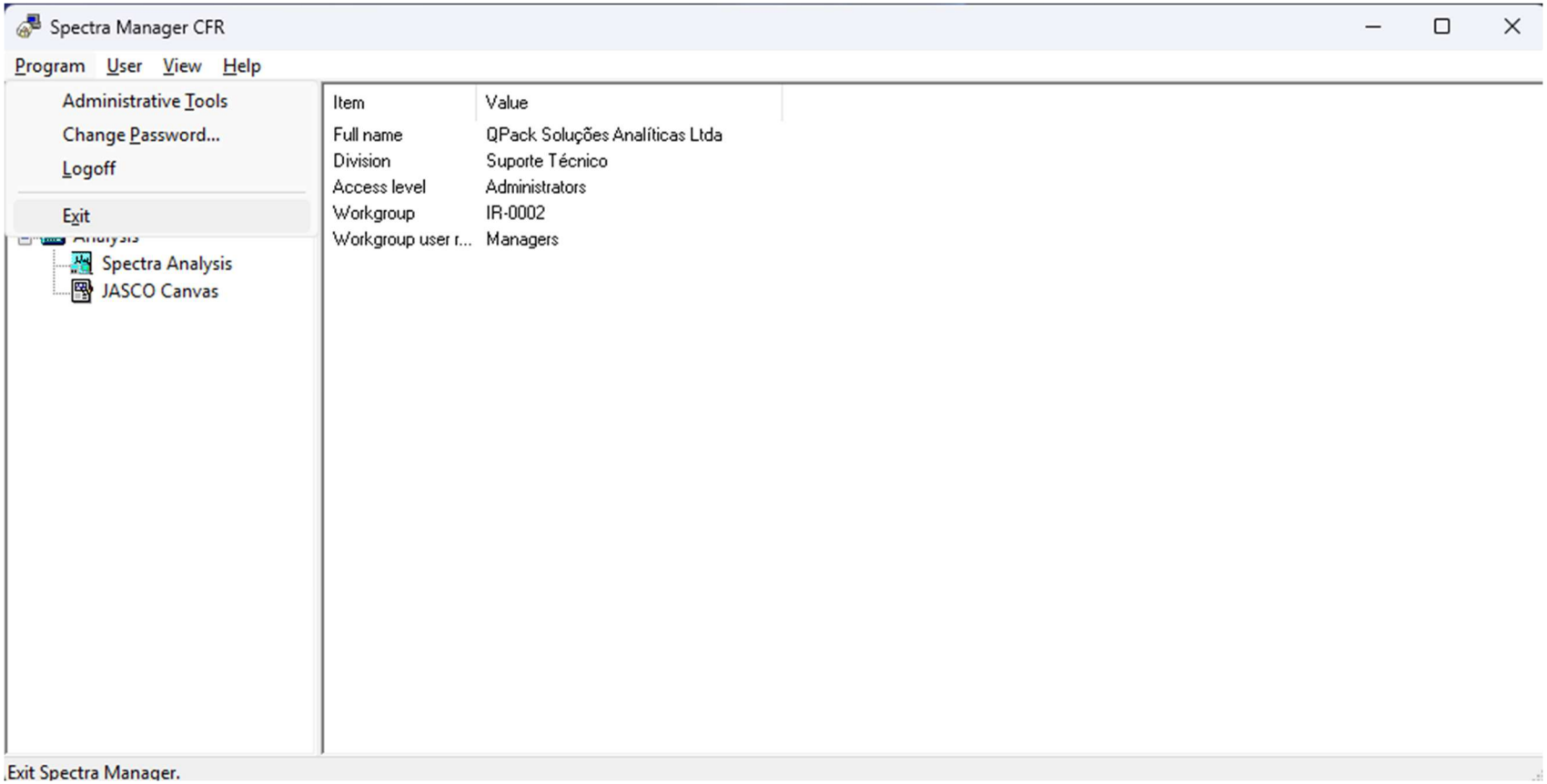
Anexo - 13


Spectra Manager CFR
Program
User
View
Help
QPackSA
Instrument
IR-0002
Spectra Measurement
Validation
Analysis
Spectra Analysis
JASCO Canvas
Item
Value
Full name
QPack Soluções Analíticas Ltda
Division
Suporte Técnico
Access level
Administrators
Workgroup
IR-0002
Workgroup user r...
Managers
Ready

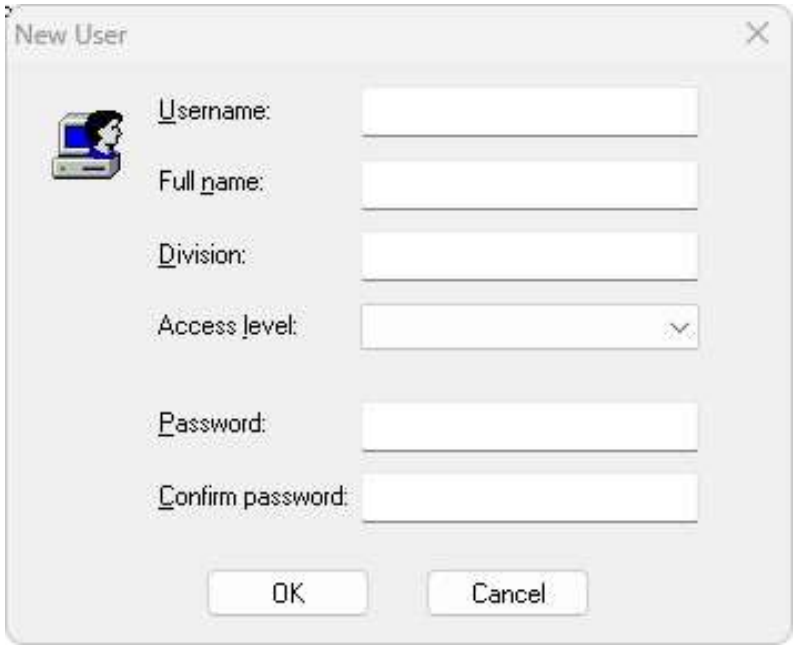
Anexo - 14.1


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
User
Access Level
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Username
Full Name
Division
Access Level
Administrator
Administrator
Administrators
Luisa
Luisa Zacharias
Controle de Qual...
Administrators
QPackSA
QPack Soluçõe...
Suporte Técnico
Administrators
Ready

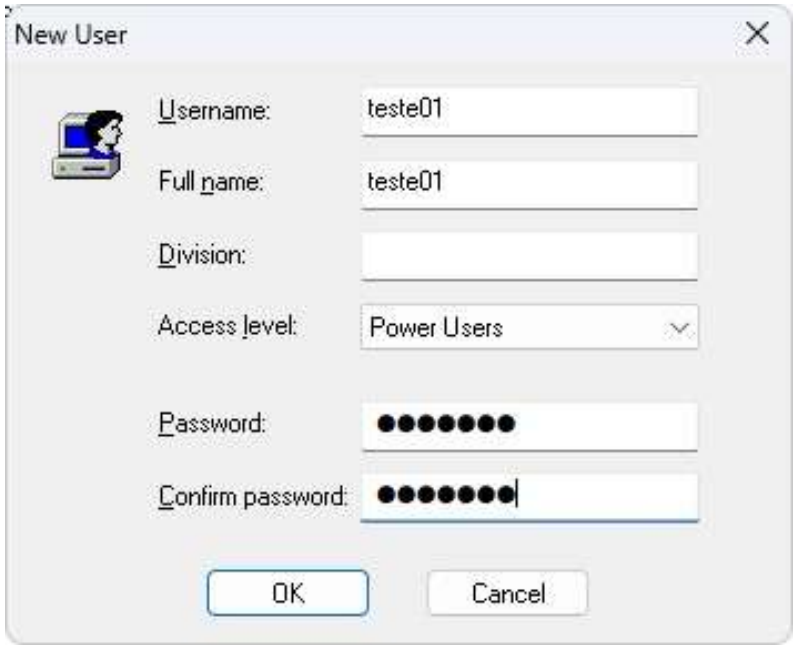
Anexo - 14.2


Spectra Manager CFR
Program User View Help
Administrative Tools
Change Password...
Logoff
Exit
Spectra Analysis
JASCO Canvas
Item
Value
Full name
QPack Soluções Analíticas Ltda
Division
Suporte Técnico
Access level
Administrators
Workgroup
IR-0002
Workgroup user r...
Managers
Exit Spectra Manager.

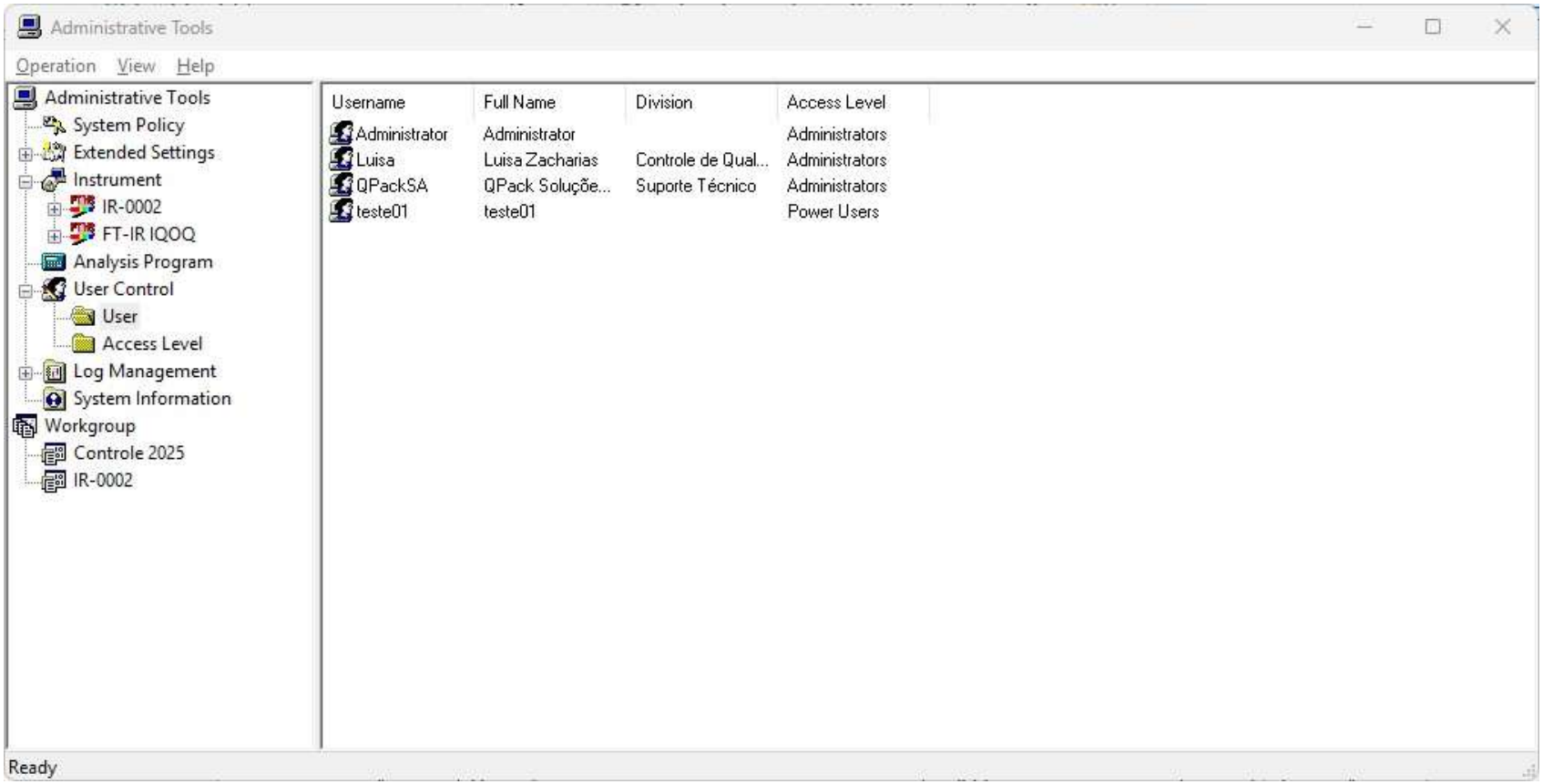
Anexo - 15


New User
Username:
Full name:
Division:
Access level:
Password:
Confirm password:
OK
Cancel

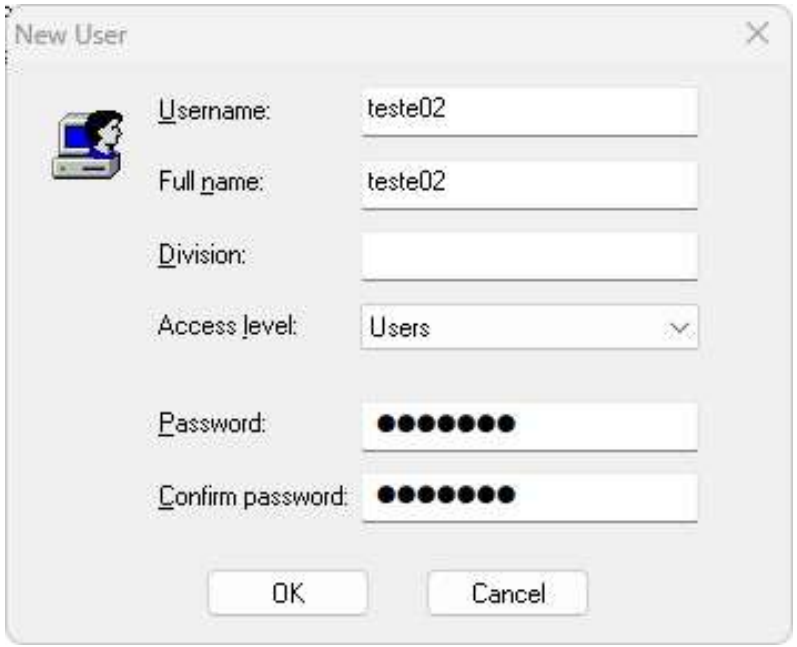
Anexo - 16


New User
Username:
teste01
Full name:
teste01
Division:
Access level:
Power Users
Password:
Confirm password:
OK
Cancel

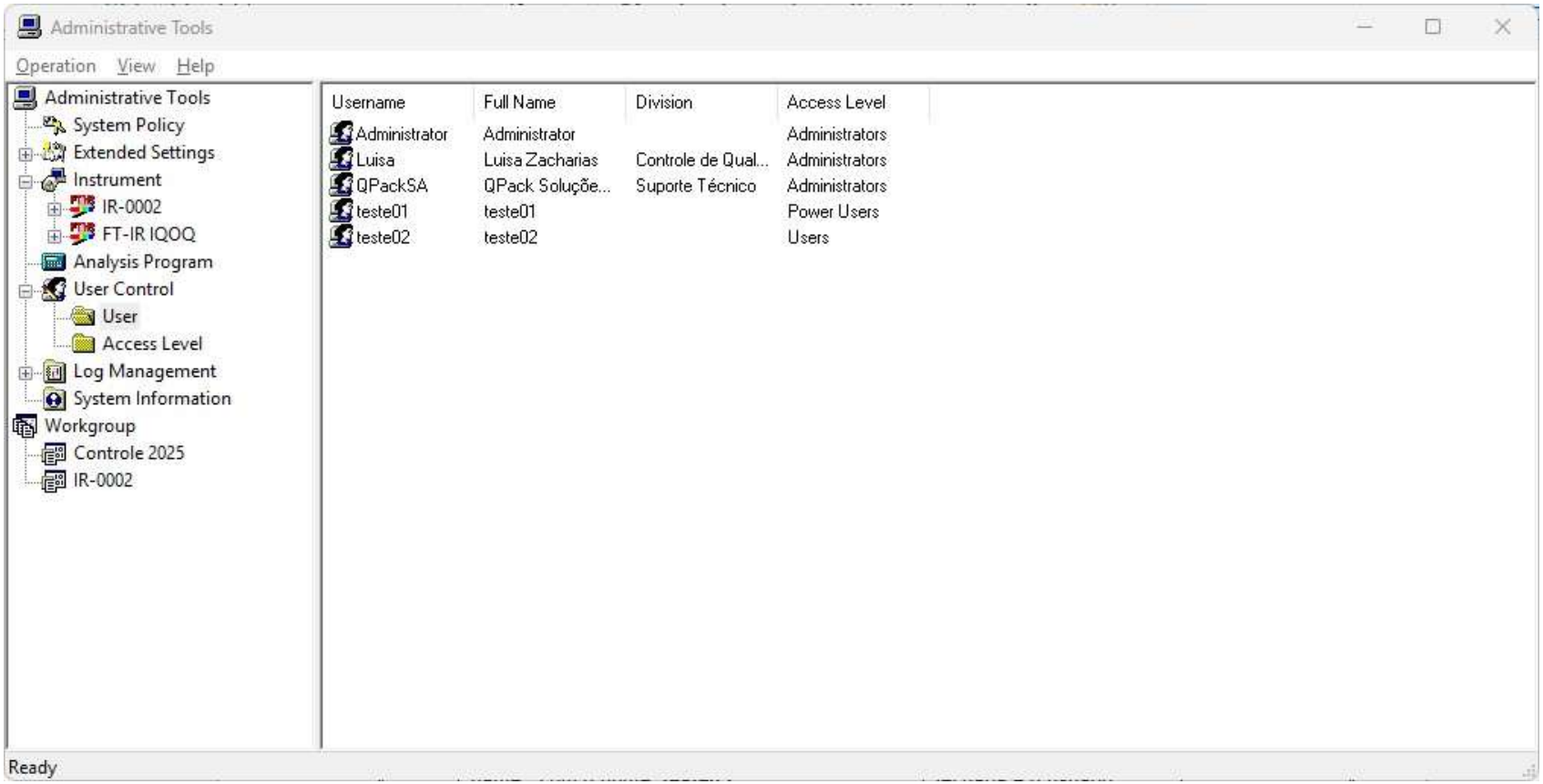
Anexo - 17


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
User
Access Level
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Username
Full Name
Division
Access Level
Administrator
Administrator
Administrators
Luisa
Luisa Zacharias
Controle de Qual...
Administrators
QPackSA
QPack Soluçõe...
Suporte Técnico
Administrators
teste01
teste01
Power Users
Ready

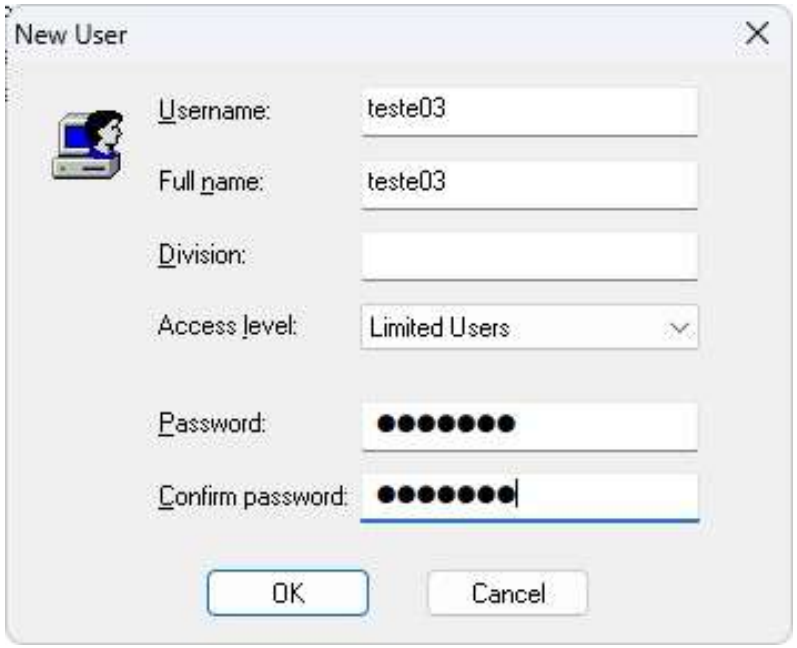
Anexo - 18


New User
Username:
teste02
Full name:
teste02
Division:
Access level:
Users
Password:
Confirm password:
OK
Cancel

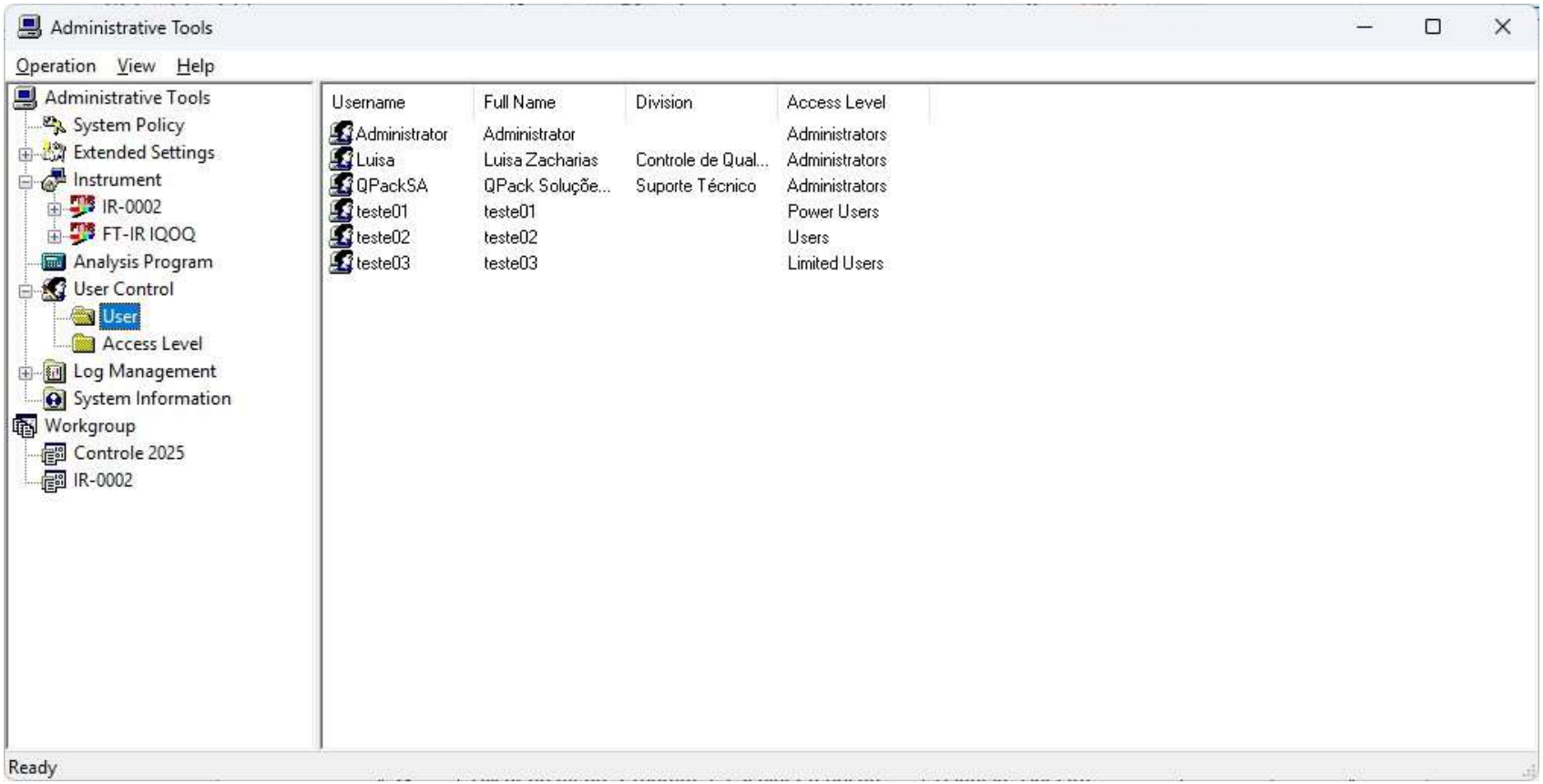
Anexo - 19


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
User
Access Level
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Username
Full Name
Division
Access Level
Administrator
Administrator
Administrators
Luisa
Luisa Zacharias
Controle de Qual...
Administrators
QPackSA
QPack Soluçõe...
Suporte Técnico
Administrators
teste01
teste01
Power Users
teste02
teste02
Users
Ready

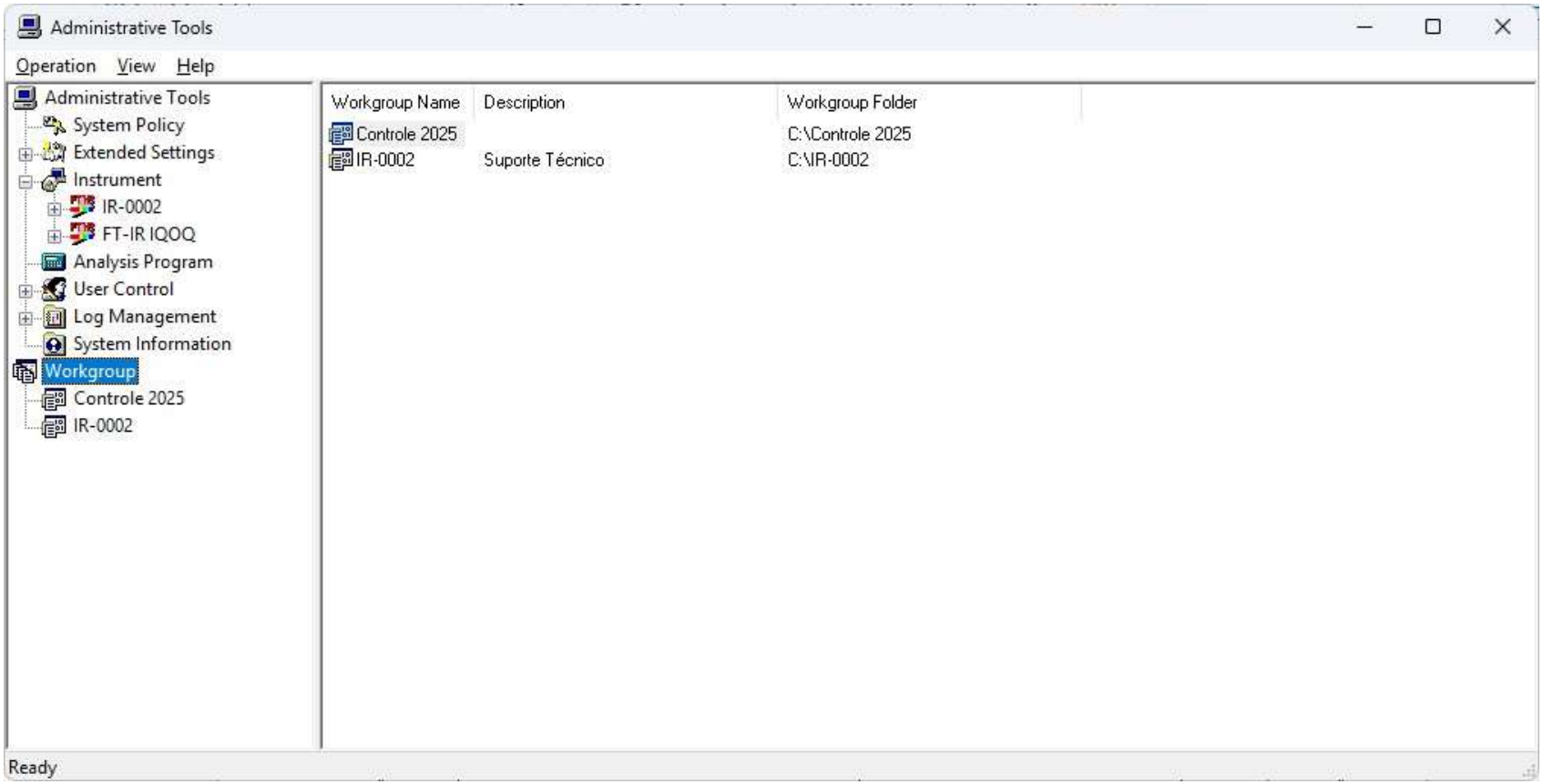
Anexo - 20


New User
Username:
teste03
Full name:
teste03
Division:
Access level:
Limited Users
Password:
Confirm password:
OK
Cancel

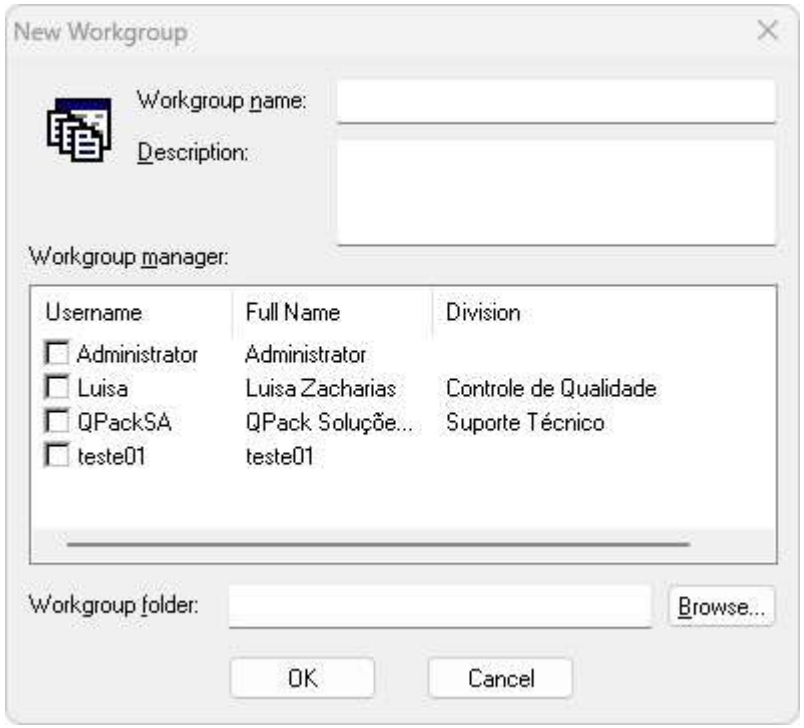
Anexo - 21


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
User
Access Level
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Username Full Name Division Access Level
Administrator Administrator Administrators
Luisa Luisa Zacharias Controle de Qual... Administrators
QPackSA QPack Soluçõe... Suporte Técnico Administrators
teste01 teste01 Power Users
teste02 teste02 Users
teste03 teste03 Limited Users
Ready

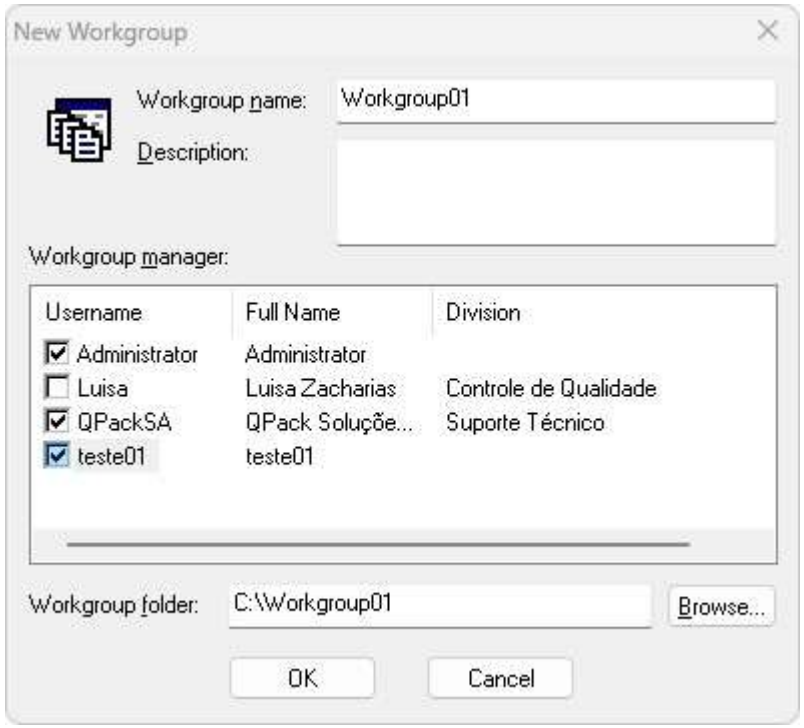
Anexo - 22


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Workgroup Name
Description
Workgroup Folder
Controle 2025
C:\Controle 2025
IR-0002
Suporte Técnico
C:\IR-0002
Ready

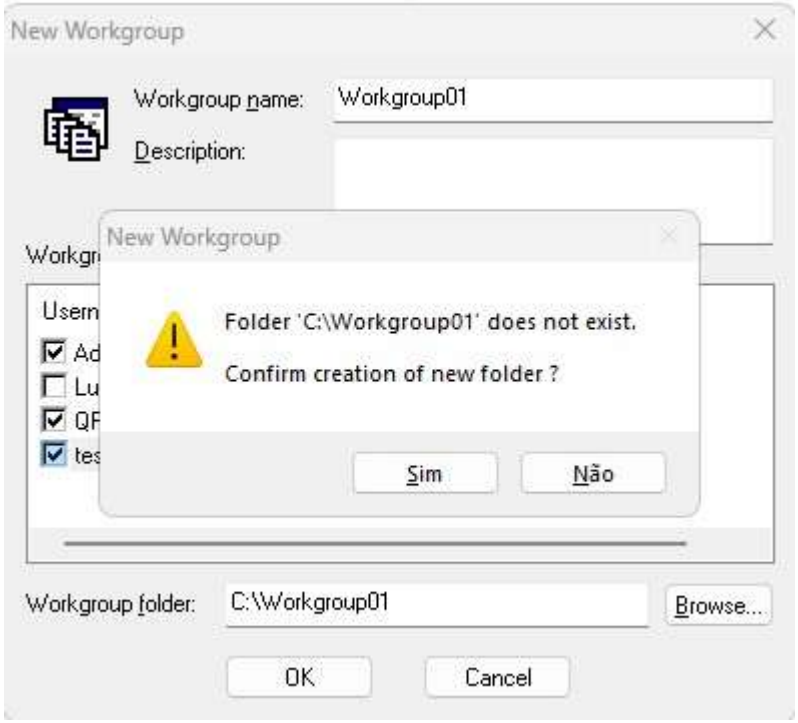
Anexo - 23


New Workgroup
Workgroup name:
Description:
Workgroup manager:
Username
Full Name
Division
Administrator
Administrator
Luisa
Luisa Zacharias
Controle de Qualidade
QPackSA
QPack Soluçõe...
Suporte Técnico
teste01
teste01
Workgroup folder:
Browse...
OK
Cancel

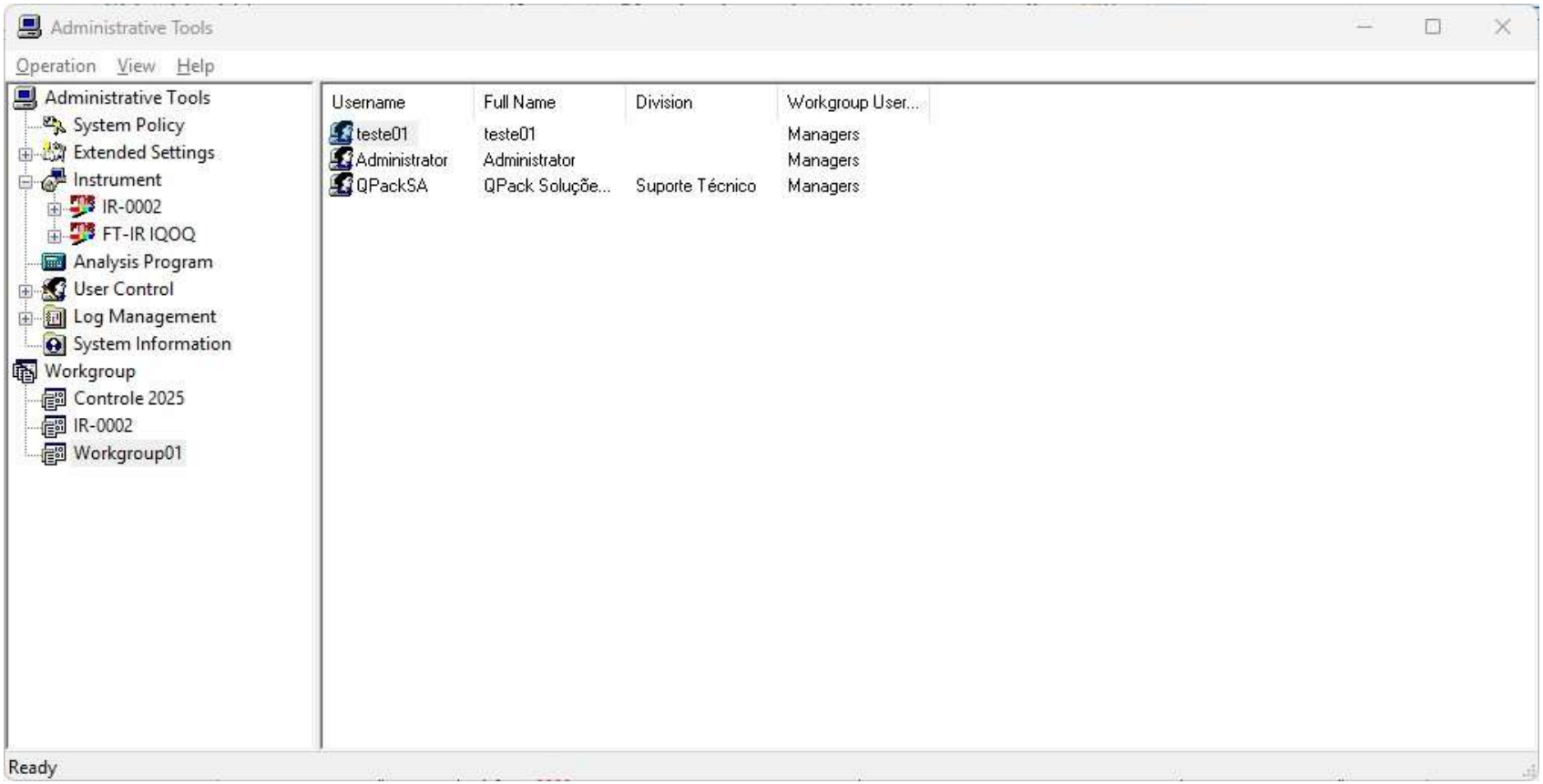
Anexo - 24


New Workgroup
Workgroup name:
Workgroup01
Description:
Workgroup manager:
Username
Full Name
Division
Administrator
Administrator
Luisa
Luisa Zacharias
Controle de Qualidade
QPackSA
QPack Soluçõe...
Suporte Técnico
teste01
teste01
Workgroup folder:
C:\Workgroup01
Browse...
OK
Cancel

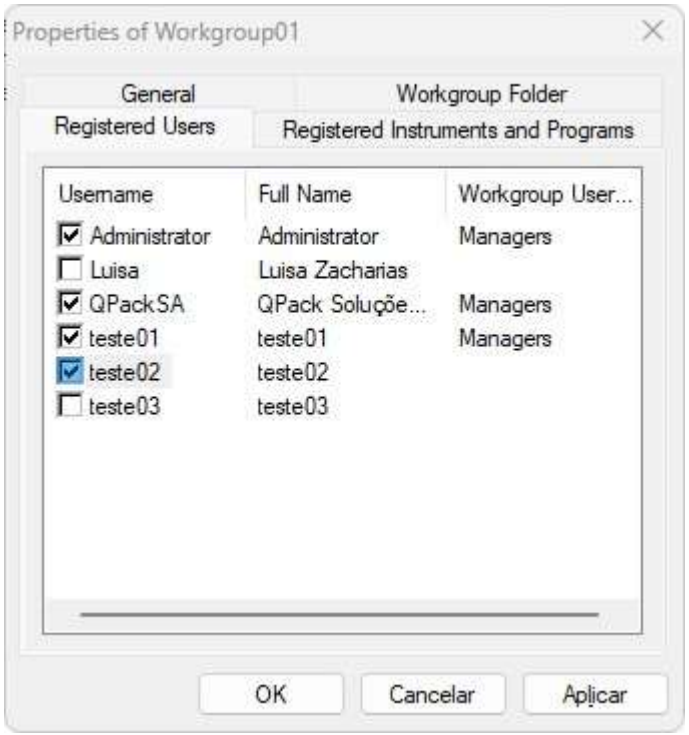
Anexo - 25


New Workgroup
Workgroup name:
Workgroup01
Description:
New Workgroup
Folder 'C:\Workgroup01' does not exist.
Confirm creation of new folder ?
Sim
Não
Workgroup folder:
C:\Workgroup01
Browse...
OK
Cancel

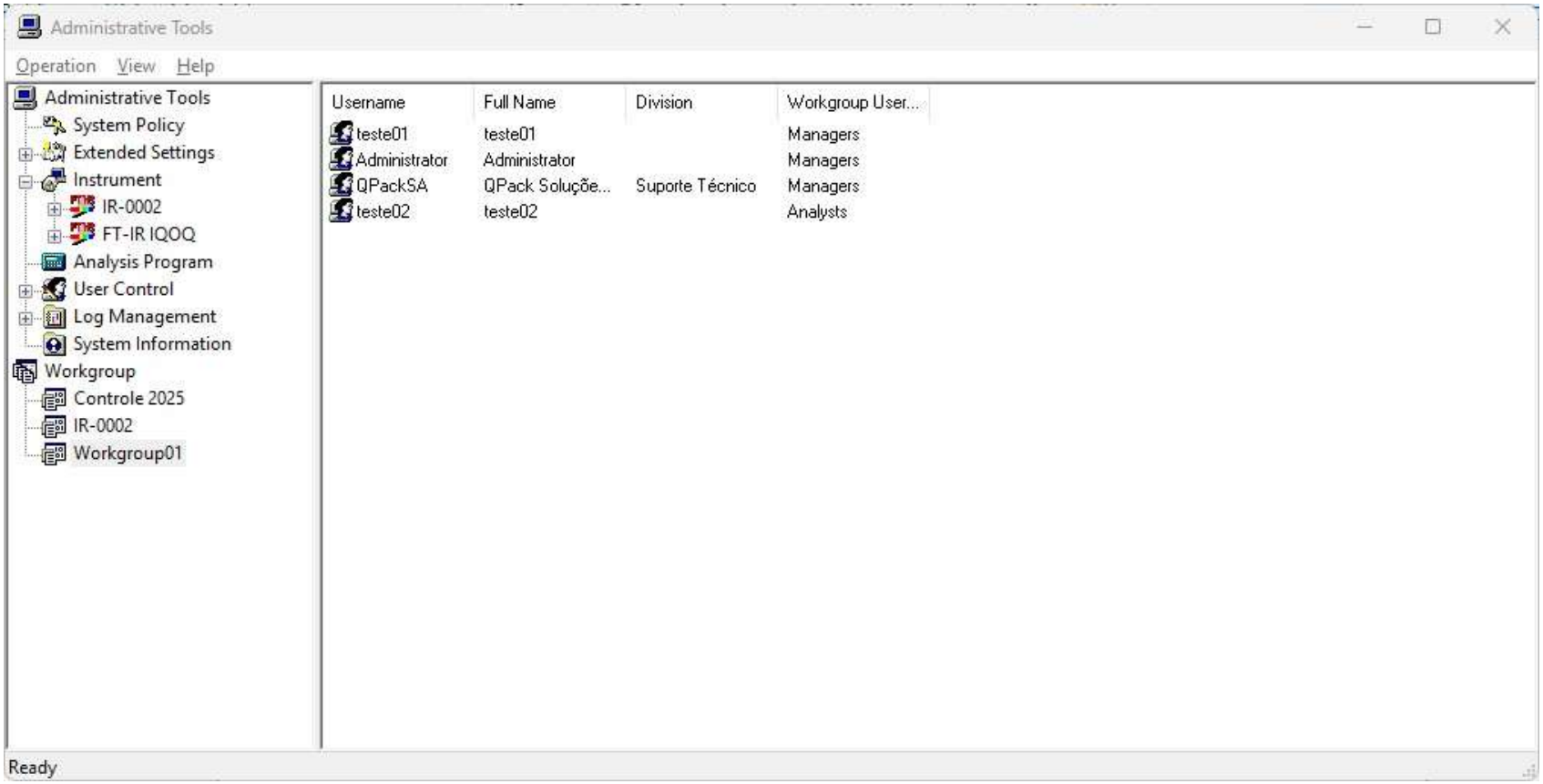
Anexo - 26


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Workgroup01
Username
Full Name
Division
Workgroup User...
teste01
teste01
Managers
Administrator
Administrator
Managers
QPackSA
QPack Soluçõe...
Suporte Técnico
Managers
Ready

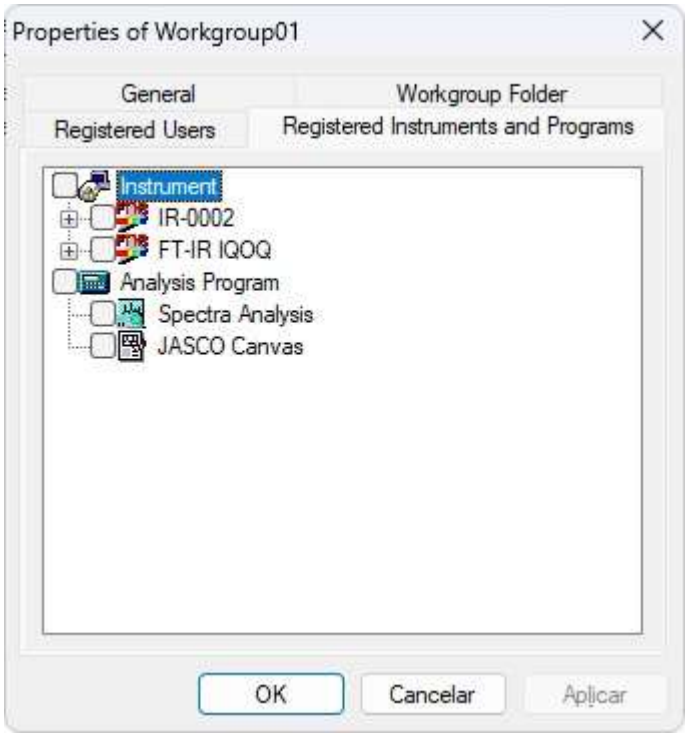
Anexo - 27


Properties of Workgroup01
General
Workgroup Folder
Registered Users
Registered Instruments and Programs
Username
Full Name
Workgroup User...
Administrator
Administrator
Managers
Luisa
Luisa Zacharias
QPackSA
QPack Soluçõe...
Managers
teste01
teste01
Managers
teste02
teste02
teste03
teste03
OK
Cancelar
Aplicar

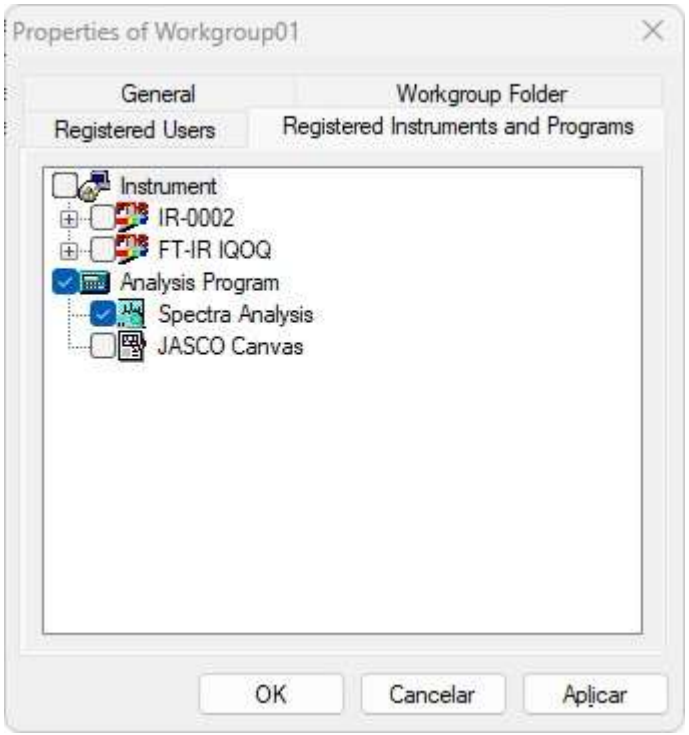
Anexo - 28


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Workgroup01
Username
Full Name
Division
Workgroup User...
teste01
teste01
Managers
Administrator
Administrator
Managers
QPackSA
QPack Soluçõe...
Suporte Técnico
Managers
teste02
teste02
Analysts
Ready

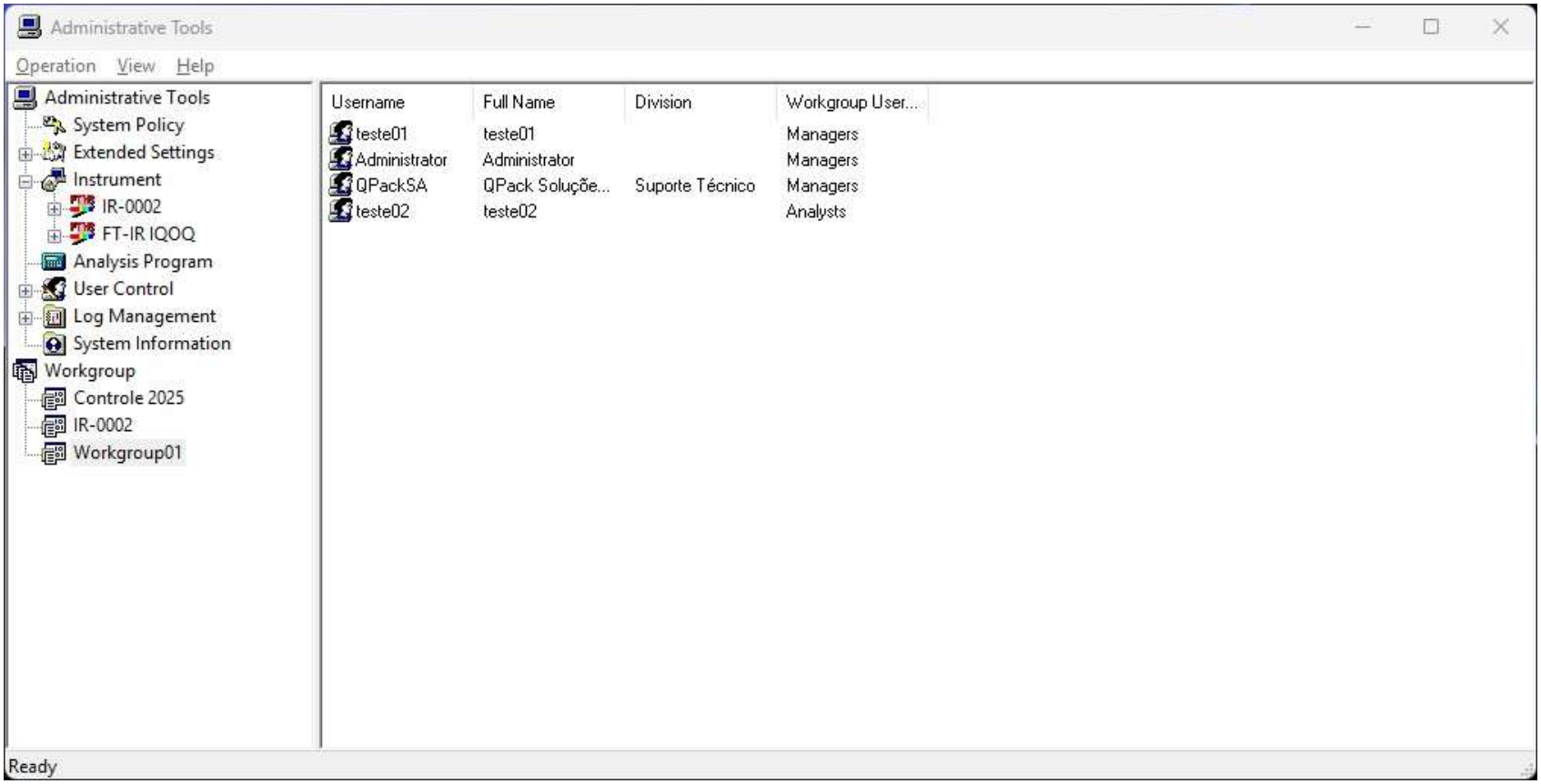
Anexo - 29


Properties of Workgroup01
General
Workgroup Folder
Registered Users
Registered Instruments and Programs
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
Spectra Analysis
JASCO Canvas
OK
Cancelar
Aplicar

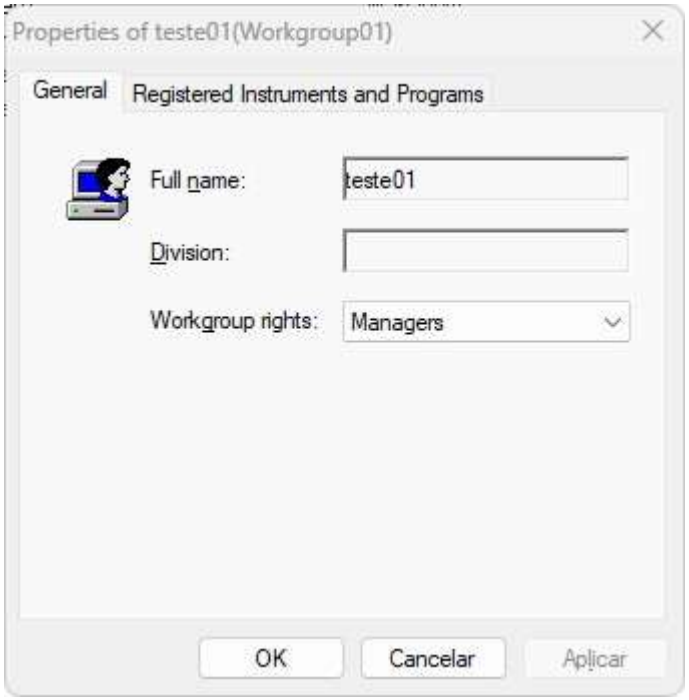
Anexo - 30


Properties of Workgroup01
General
Workgroup Folder
Registered Users
Registered Instruments and Programs
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
Spectra Analysis
JASCO Canvas
OK
Cancelar
Aplicar

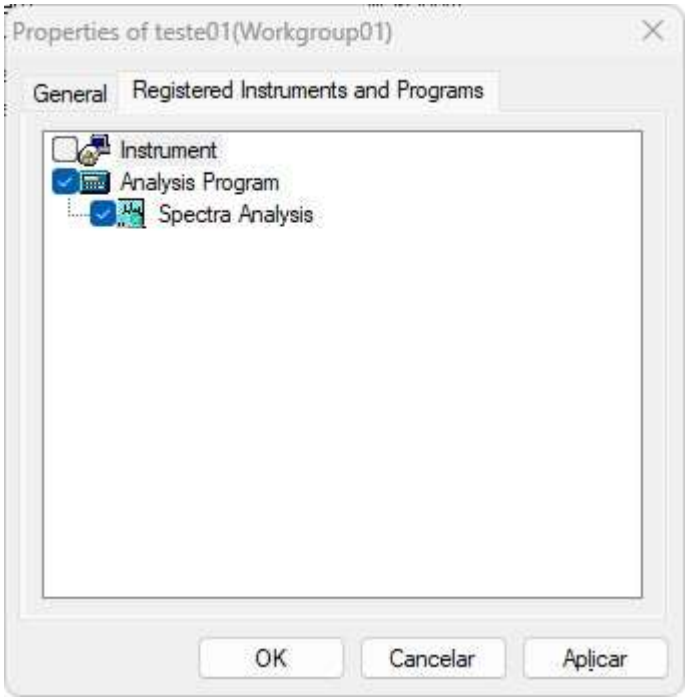
Anexo - 31


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Workgroup01
Username
Full Name
Division
Workgroup User...
teste01
teste01
Managers
Administrator
Administrator
Managers
QPackSA
QPack Soluçõe...
Suporte Técnico
Managers
teste02
teste02
Analysts
Ready

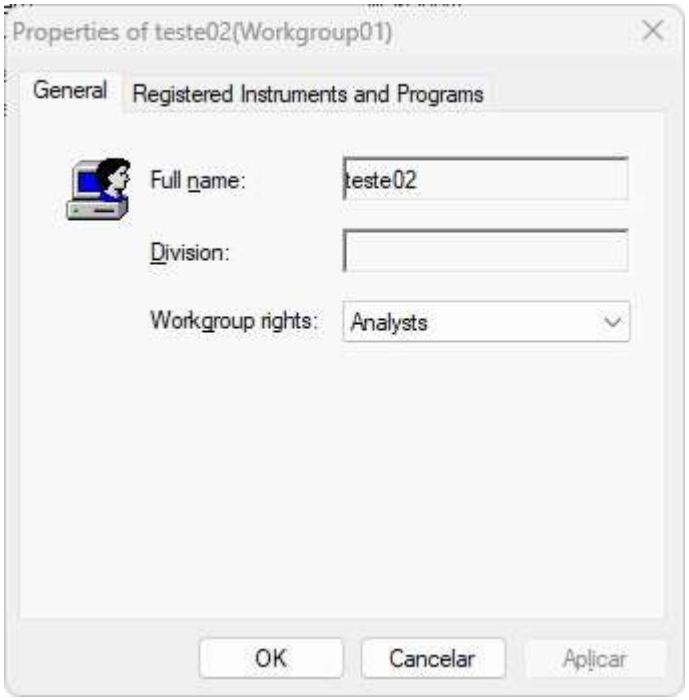
Anexo - 32


Properties of teste01(Workgroup01)
General
Registered Instruments and Programs
Full name:
teste01
Division:
Workgroup rights:
Managers
OK
Cancelar
Aplicar

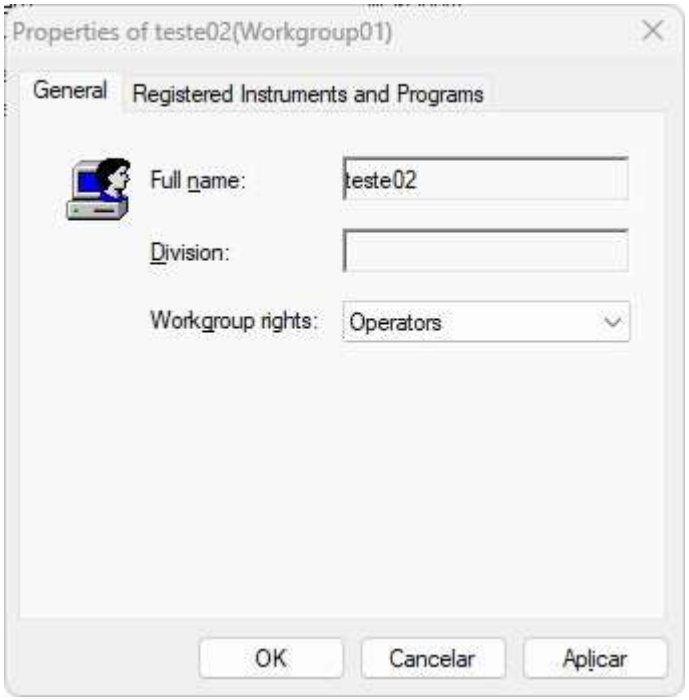
Anexo - 33


Properties of teste01(Workgroup01)
General
Registered Instruments and Programs
Instrument
Analysis Program
Spectra Analysis
OK
Cancelar
Aplicar

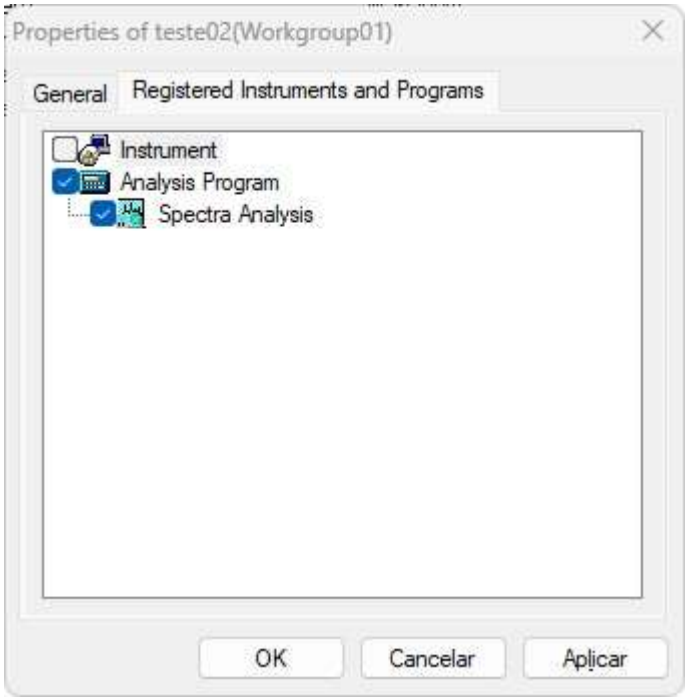
Anexo - 34


Properties of teste02(Workgroup01)
General
Registered Instruments and Programs
Full name:
teste02
Division:
Workgroup rights:
Analysts
OK
Cancelar
Aplicar

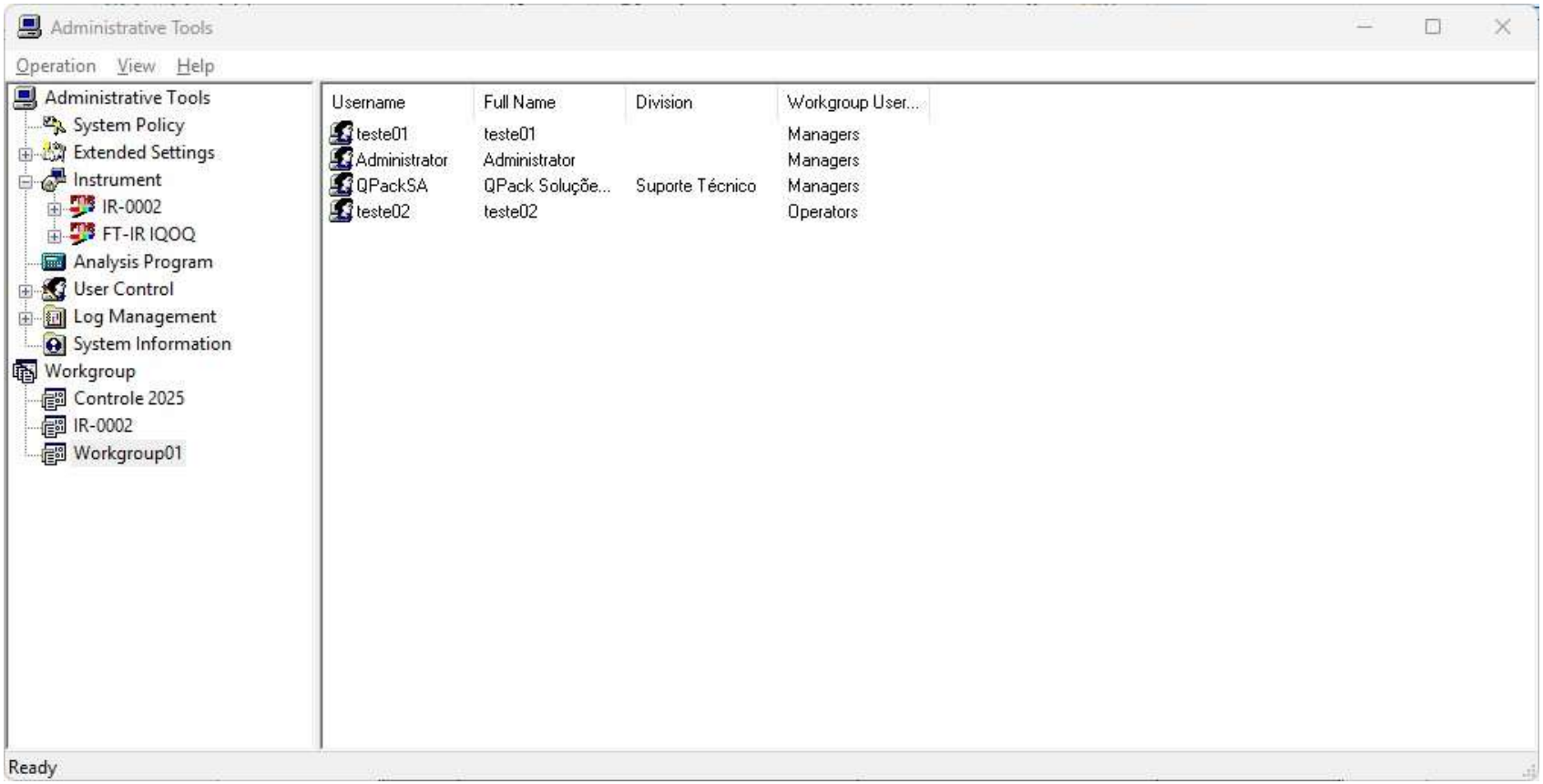
Anexo - 35


Properties of teste02(Workgroup01)
General
Registered Instruments and Programs
Full name:
teste02
Division:
Workgroup rights:
Operators
OK
Cancelar
Aplicar

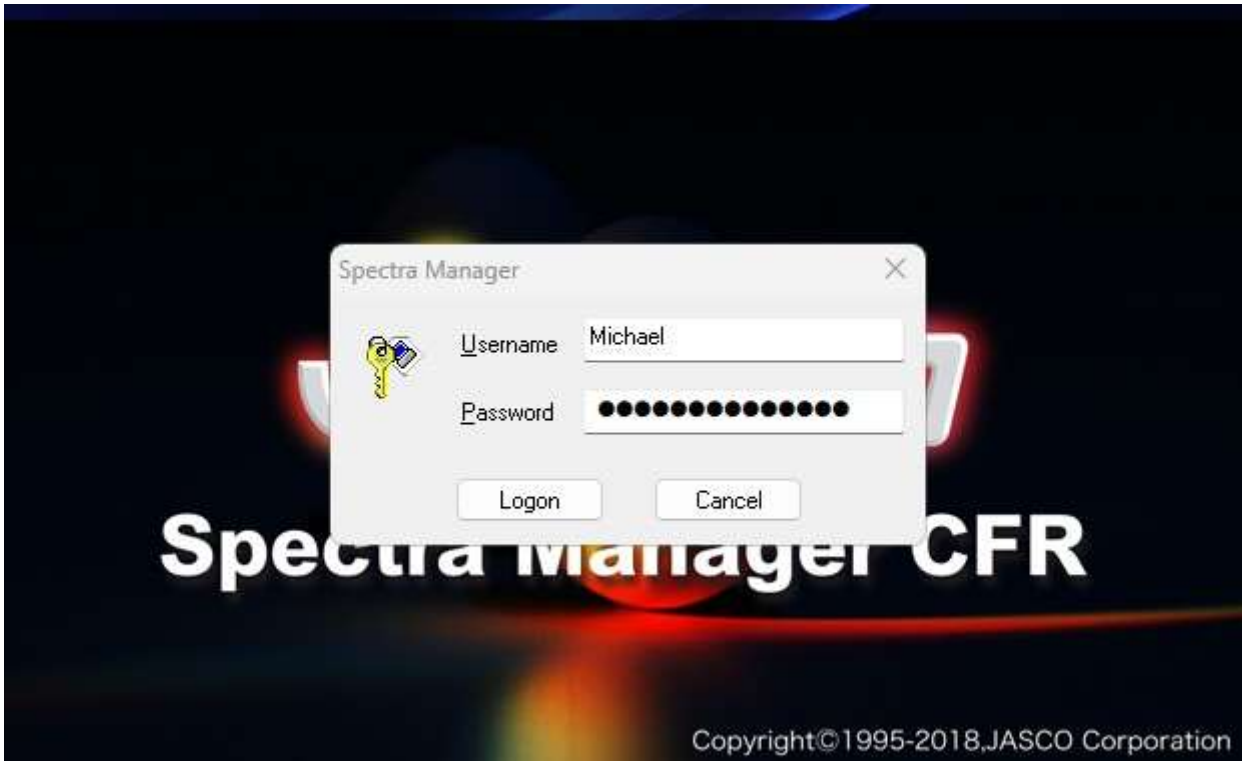
Anexo - 36


Properties of teste02(Workgroup01)
General
Registered Instruments and Programs
Instrument
Analysis Program
Spectra Analysis
OK
Cancelar
Aplicar

Anexo - 37


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
Log Management
System Information
Workgroup
Controle 2025
IR-0002
Workgroup01
Username
Full Name
Division
Workgroup User...
teste01
teste01
Managers
Administrator
Administrator
Managers
QPackSA
QPack Soluçõe...
Suporte Técnico
Managers
teste02
teste02
Operators
Ready

Anexo - 38


Spectra Manager
Username
Michael
Password
Logon
Cancel
Copyright©1995-2018,JASCO Corporation

Anexo - 39


Spectra Manager
Username does not exist or password is wrong
OK
Spectra Manager CFR
Copyright©1995-2018,JASCO Corporation

Anexo - 40


Spectra Manager
Username
teste03
Password
Logon
Cancel
Spectra Manager CFR
Copyright©1995-2018,JASCO Corporation

Anexo - 41


Spectra Manager
Username does not exist or password is wrong
OK
Copyright©1995-2018,JASCO Corporation

Anexo - 42


Spectra Manager
Username
teste01
Password
Logon
Cancel
Copyright©1995-2018,JASCO Corporation

Anexo - 43


Enter New Password
New password:
Confirm new password:
OK
Cancel
Spectra Manager CFR
Copyright©1995-2018,JASCO Corporation

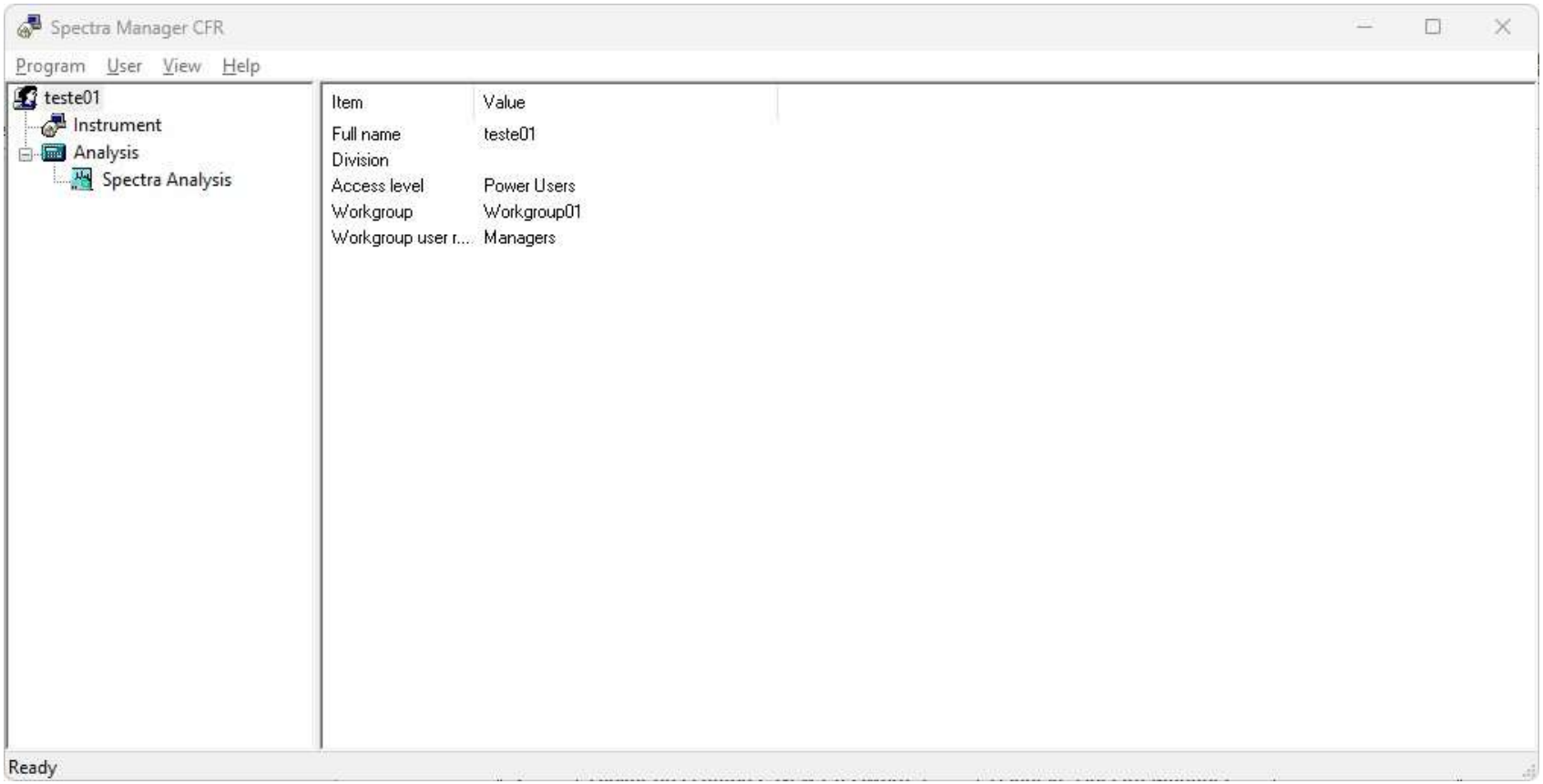
Anexo - 44


Enter New Password
The password is the same as the old password.
OK
Spectra Manager CFR
Copyright©1995-2018,JASCO Corporation

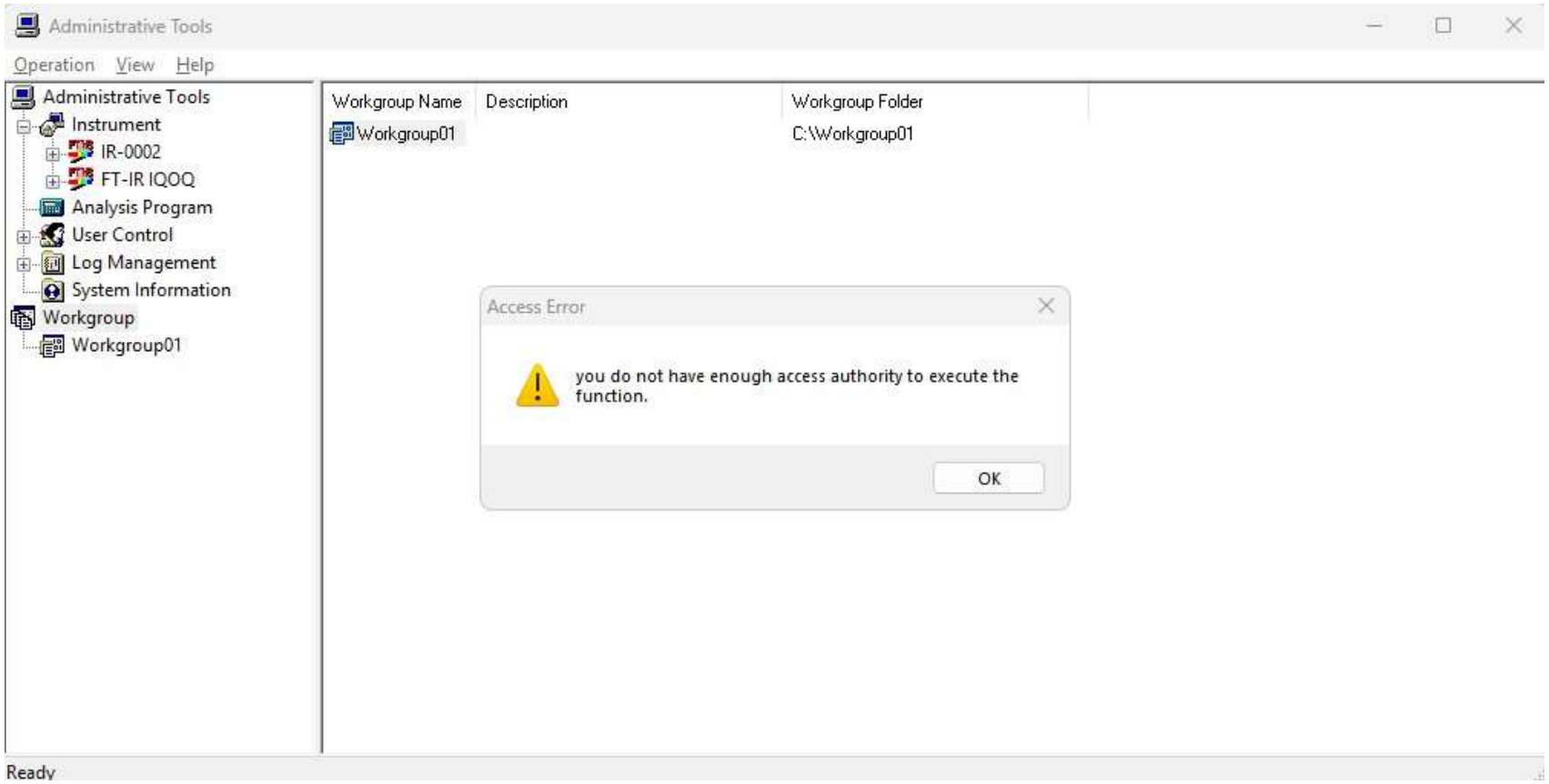
Anexo - 45


Enter New Password
New password:
Confirm new password:
OK
Cancel
Spectra Manager CFR
Copyright©1995-2018,JASCO Corporation

Anexo - 46


Spectra Manager CFR
Program
User
View
Help
teste01
Instrument
Analysis
Spectra Analysis
Item
Value
Full name
teste01
Division
Access level
Power Users
Workgroup
Workgroup01
Workgroup user r...
Managers
Ready

Anexo - 47


Administrative Tools
Operation View Help
Administrative Tools
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
Log Management
System Information
Workgroup
Workgroup01
Workgroup Name
Description
Workgroup Folder
Workgroup01
C:\Workgroup01
Access Error
you do not have enough access authority to execute the function.
OK
Ready

Anexo - 48


Spectra Manager
Username
teste03
Password
Logon
Cancel
Spectra Manager CFR
Copyright©1995-2018,JASCO Corporation

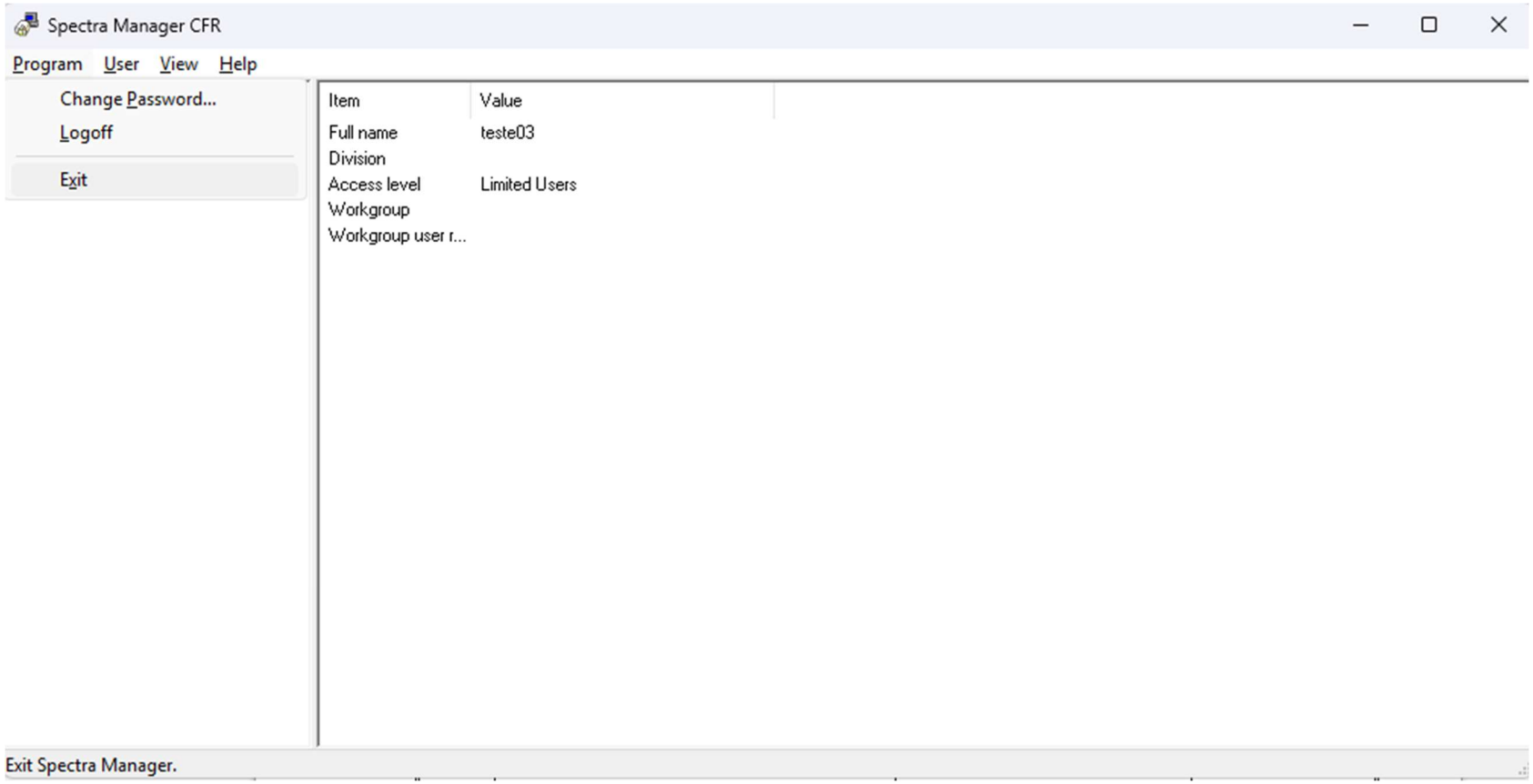
Anexo - 49


Enter New Password
New password:
Confirm new password:
OK
Cancel
Spectra Manager CFR
Copyright©1995-2018,JASCO Corporation

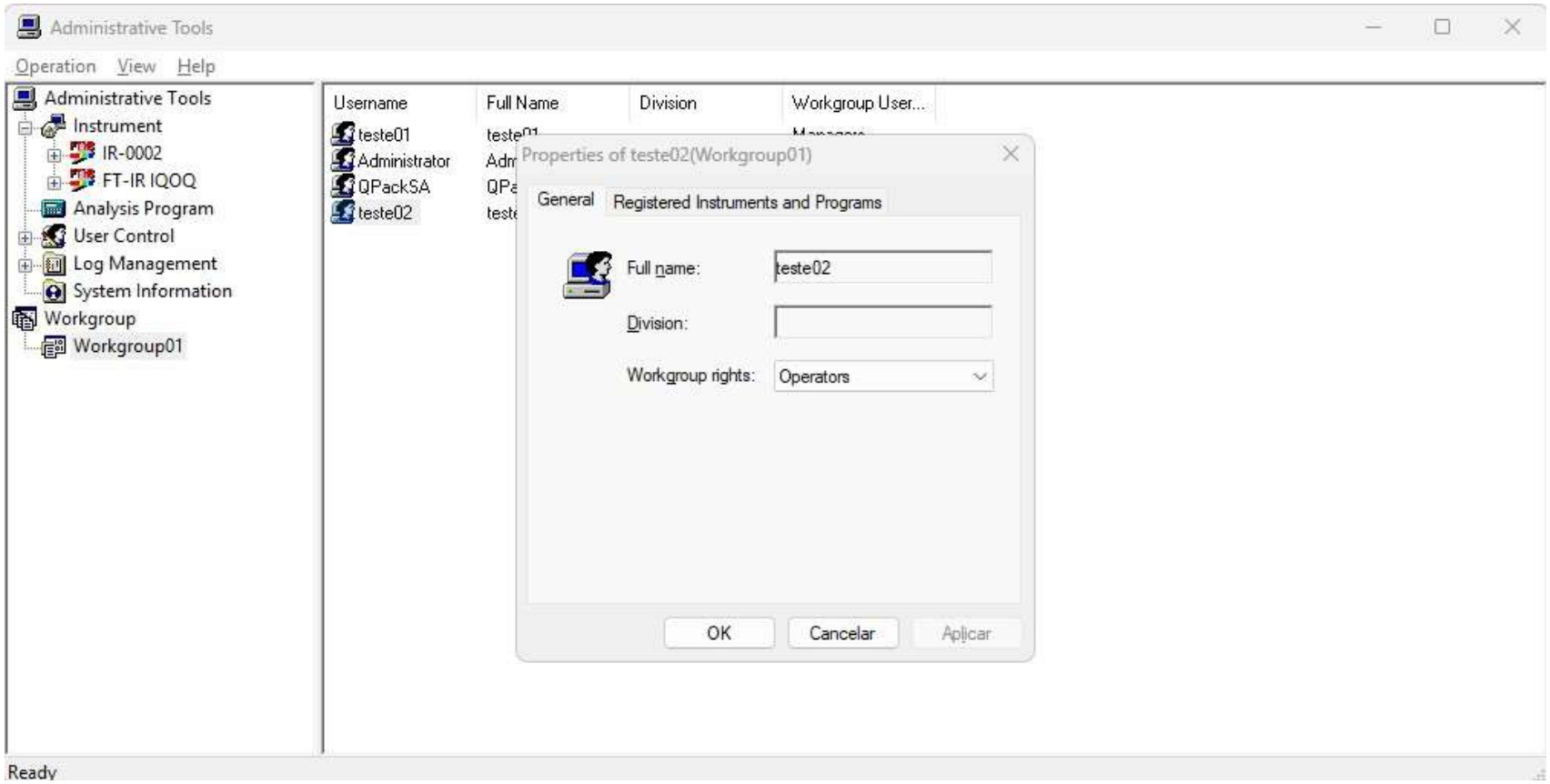
Anexo - 50


Spectra Manager CFR
Program
User
View
Help
teste03
Instrument
Analysis
Item
Value
Full name
teste03
Division
Access level
Limited Users
Workgroup
Workgroup user r...
Ready

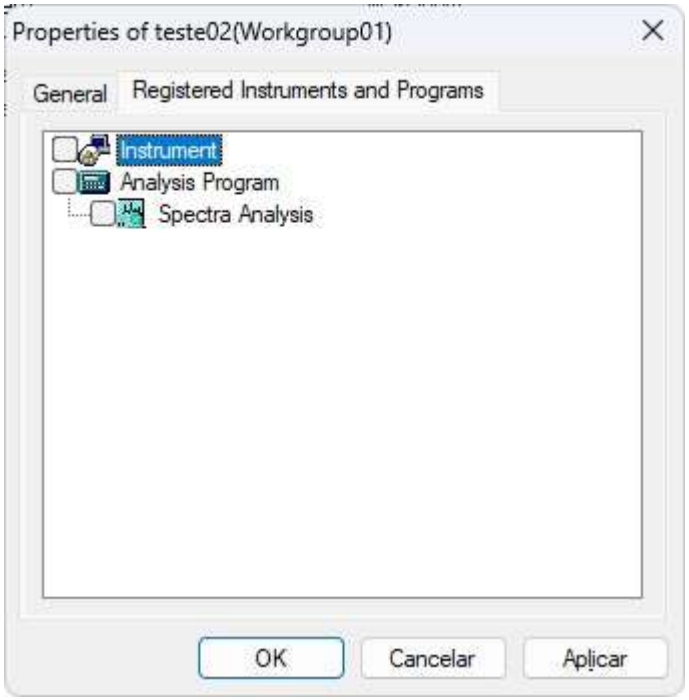
Anexo - 51


Spectra Manager CFR
Program
User
View
Help
Change Password...
Logoff
Exit
Item
Value
Full name
teste03
Division
Access level
Limited Users
Workgroup
Workgroup user r...
Exit Spectra Manager.

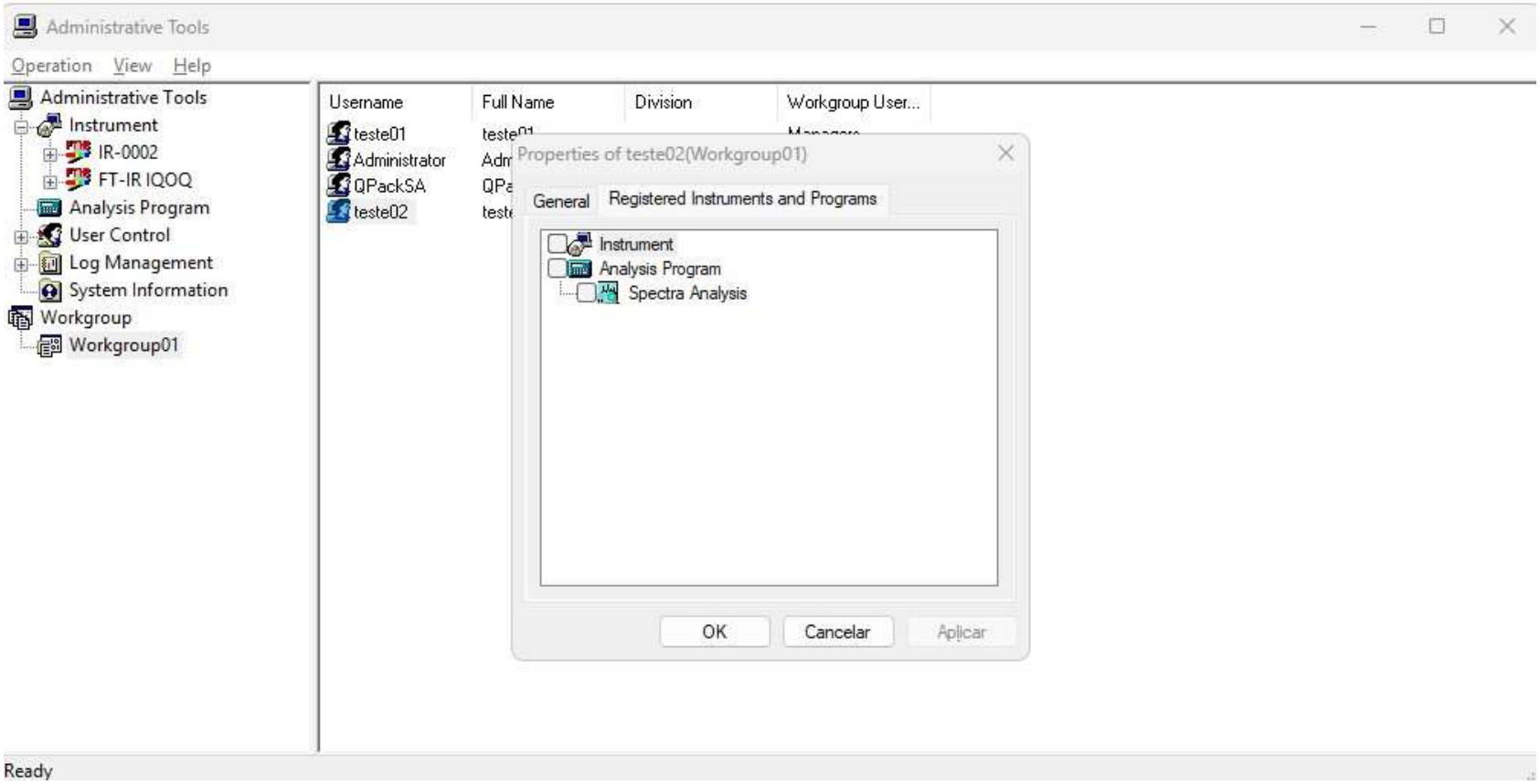
Anexo - 52


Administrative Tools
Operation View Help
Administrative Tools
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
Log Management
System Information
Workgroup
Workgroup01
Username
Full Name
Division
Workgroup User...
teste01
Administrator
QPack5A
teste02
Properties of teste02(Workgroup01)
General
Registered Instruments and Programs
Full name:
teste02
Division:
Workgroup rights:
Operators
OK
Cancelar
Aplicar
Ready

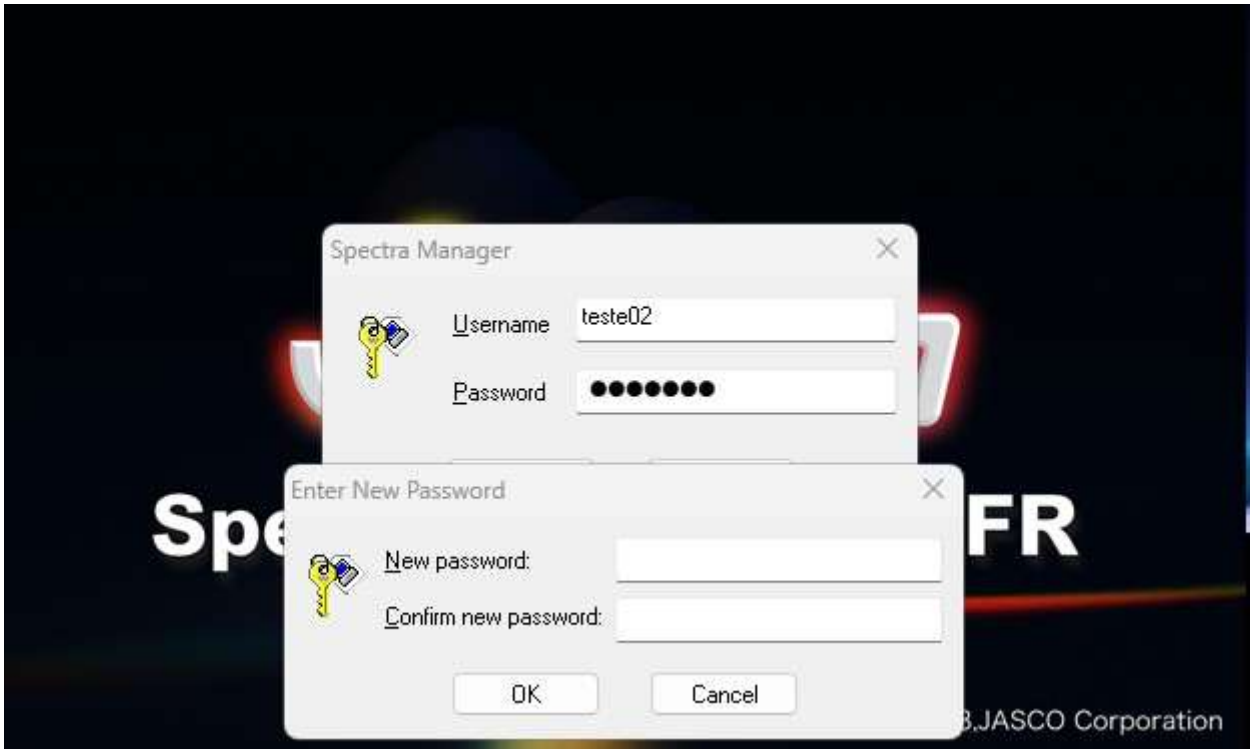
Anexo - 53


Properties of teste02(Workgroup01)
General
Registered Instruments and Programs
Instrument
Analysis Program
Spectra Analysis
OK
Cancelar
Aplicar

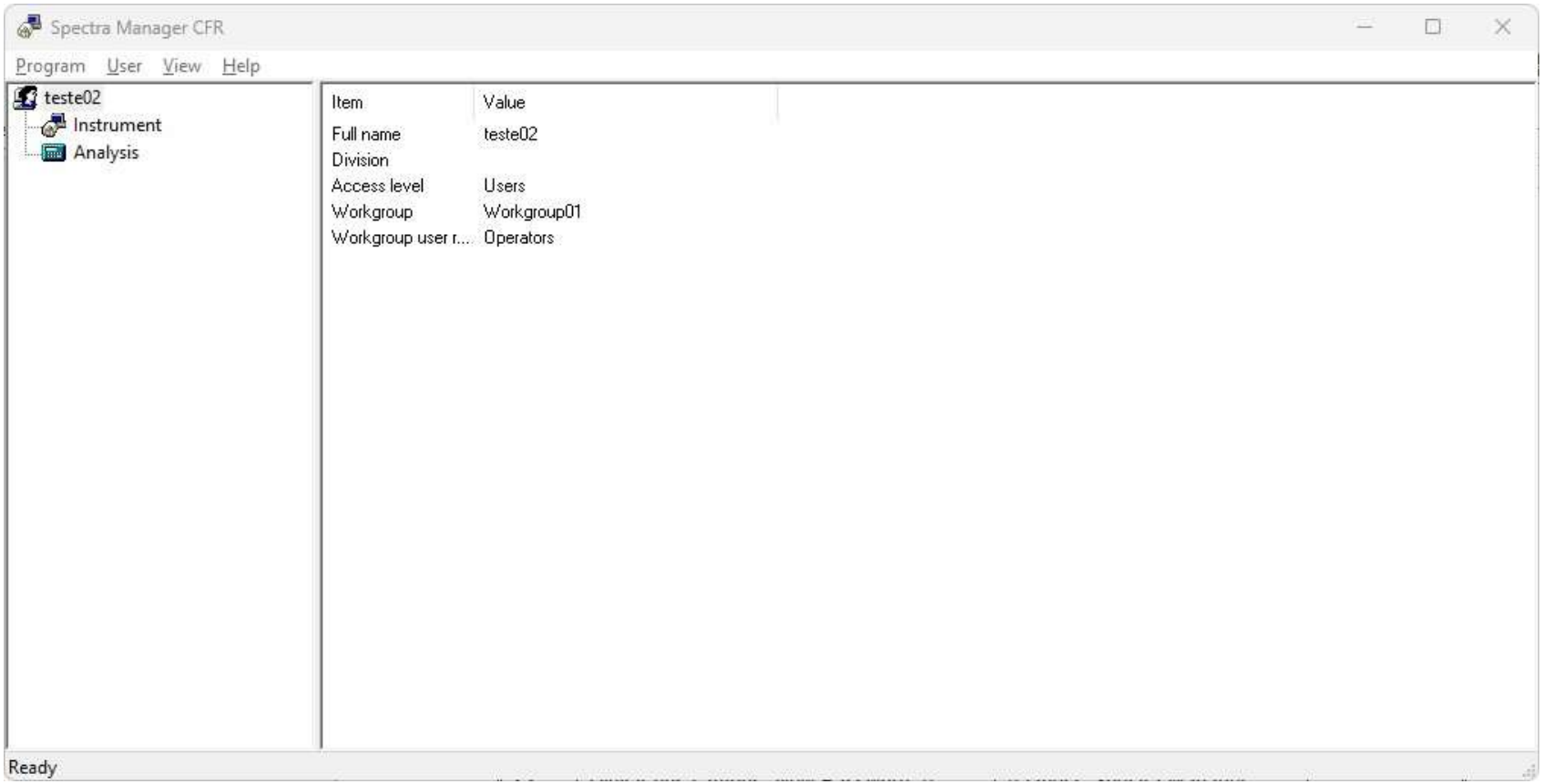
Anexo - 54


Administrative Tools
Operation View Help
Administrative Tools
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
Log Management
System Information
Workgroup
Workgroup01
Username
Full Name
Division
Workgroup User...
teste01
Administrator
QPackSA
teste02
Properties of teste02(Workgroup01)
General
Registered Instruments and Programs
Instrument
Analysis Program
Spectra Analysis
OK
Cancelar
Aplicar
Ready

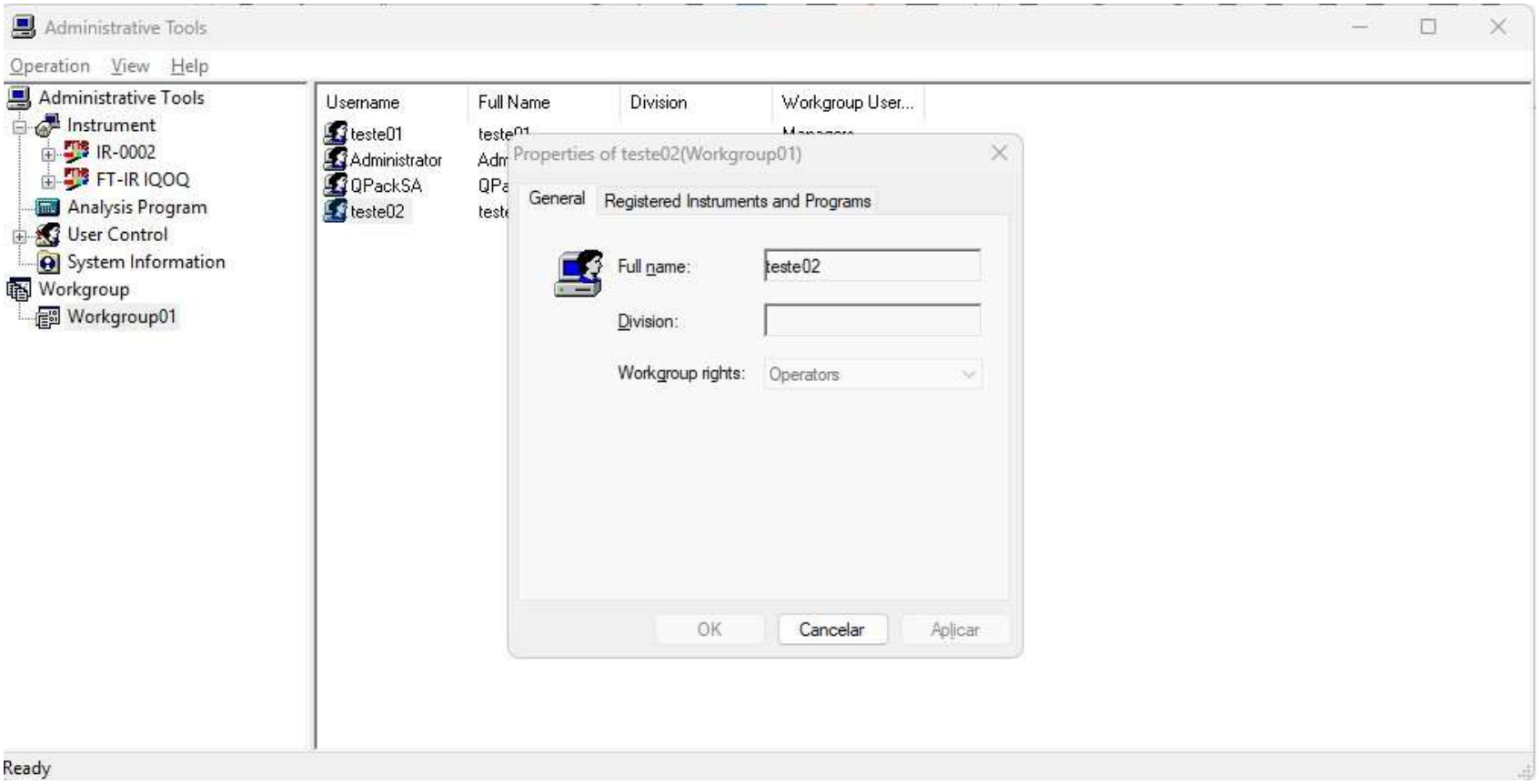
Anexo - 55


Spectra Manager
Username
teste02
Password
Enter New Password
New password:
Confirm new password:
OK
Cancel
JASCO Corporation

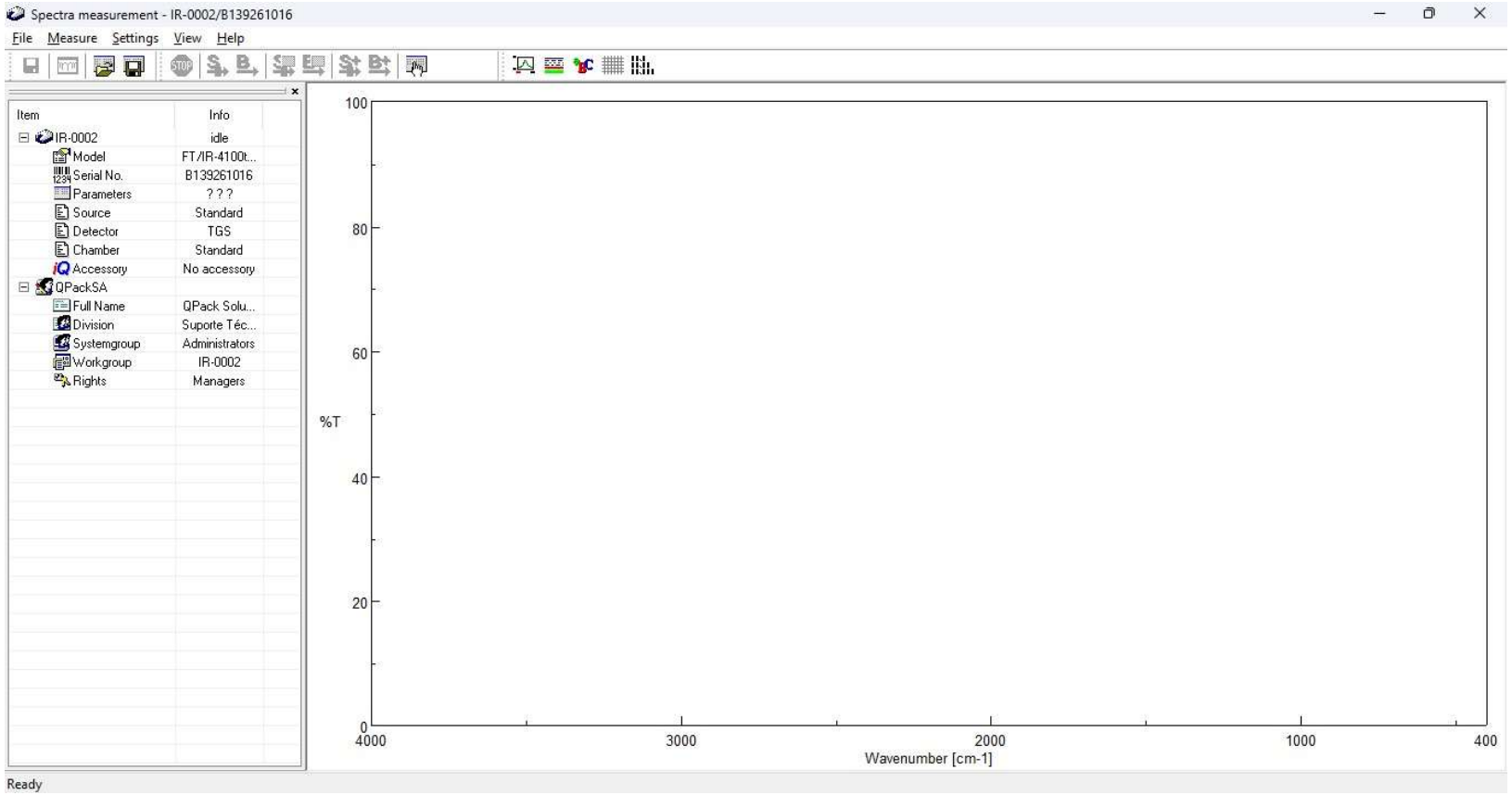
Anexo - 56


Spectra Manager CFR
Program
User
View
Help
teste02
Instrument
Analysis
Item
Value
Full name
teste02
Division
Access level
Users
Workgroup
Workgroup01
Workgroup user r...
Operators
Ready

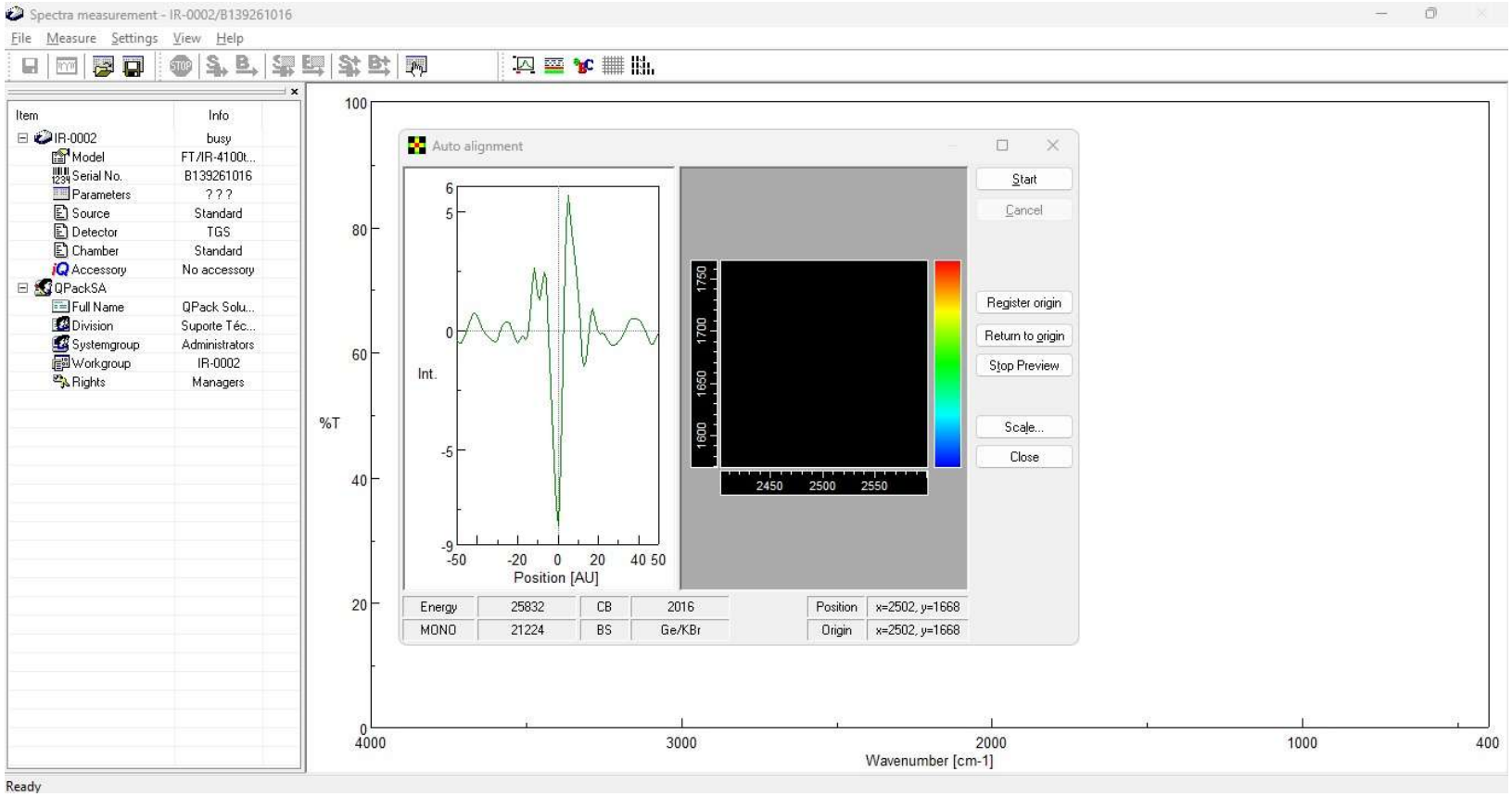
Anexo - 57


Administrative Tools
Operation View Help
Administrative Tools
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
System Information
Workgroup
Workgroup01
Username
Full Name
Division
Workgroup User...
teste01
Administrator
QPackSA
teste02
Properties of teste02(Workgroup01)
General
Registered Instruments and Programs
Full name:
teste02
Division:
Workgroup rights:
Operators
OK
Cancelar
Aplicar
Ready

Anexo - 58


Spectra measurement - IR-0002/B139261016
File Measure Settings View Help
Item
Info
IR-0002
idle
Model
FT/IR-4100t...
Serial No.
B139261016
Parameters
???
Source
Standard
Detector
TGS
Chamber
Standard
Accessory
No accessory
QPackSA
Full Name
QPack Solu...
Division
Suporte Téc...
Systemgroup
Administrators
Workgroup
IR-0002
Rights
Managers
100
80
60
%T
40
20
0
4000
3000
2000
1000
400
Wavenumber [cm-1]
Ready

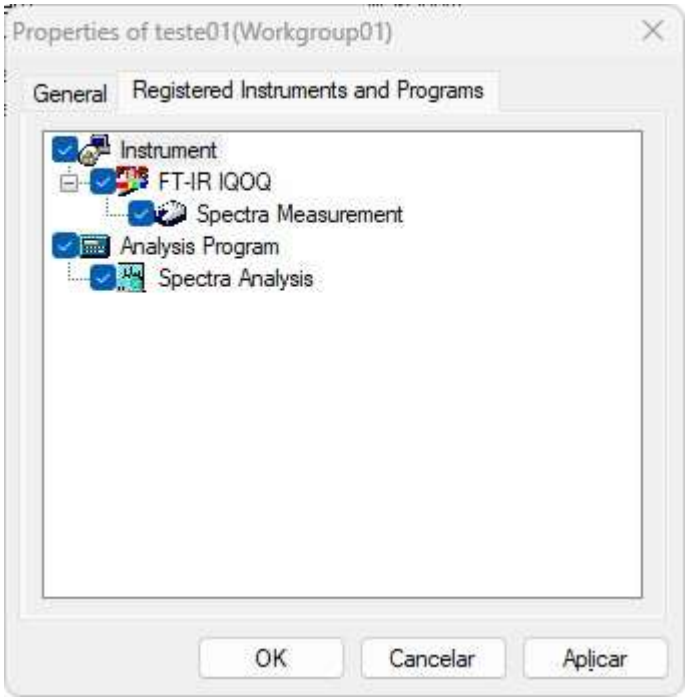
Anexo - 59


Spectra measurement - IR-0002/B139261016
File Measure Settings View Help
Item Info
IR-0002 busy
Model FT/IR-4100t...
Serial No. B139261016
Parameters ???
Source Standard
Detector TGS
Chamber Standard
Accessory No accessory
QPackSA
Full Name QPack Solu...
Division Suporte Téc...
Systemgroup Administrators
Workgroup IR-0002
Rights Managers
Auto alignment
Start
Cancel
Register origin
Return to origin
Stop Preview
Scale...
Close
Int.
Position [AU]
%T
Wavenumber [cm-1]
Energy 25832 CB 2016
MONO 21224 BS Ge/KBr
Position x=2502, y=1668
Origin x=2502, y=1668
Ready

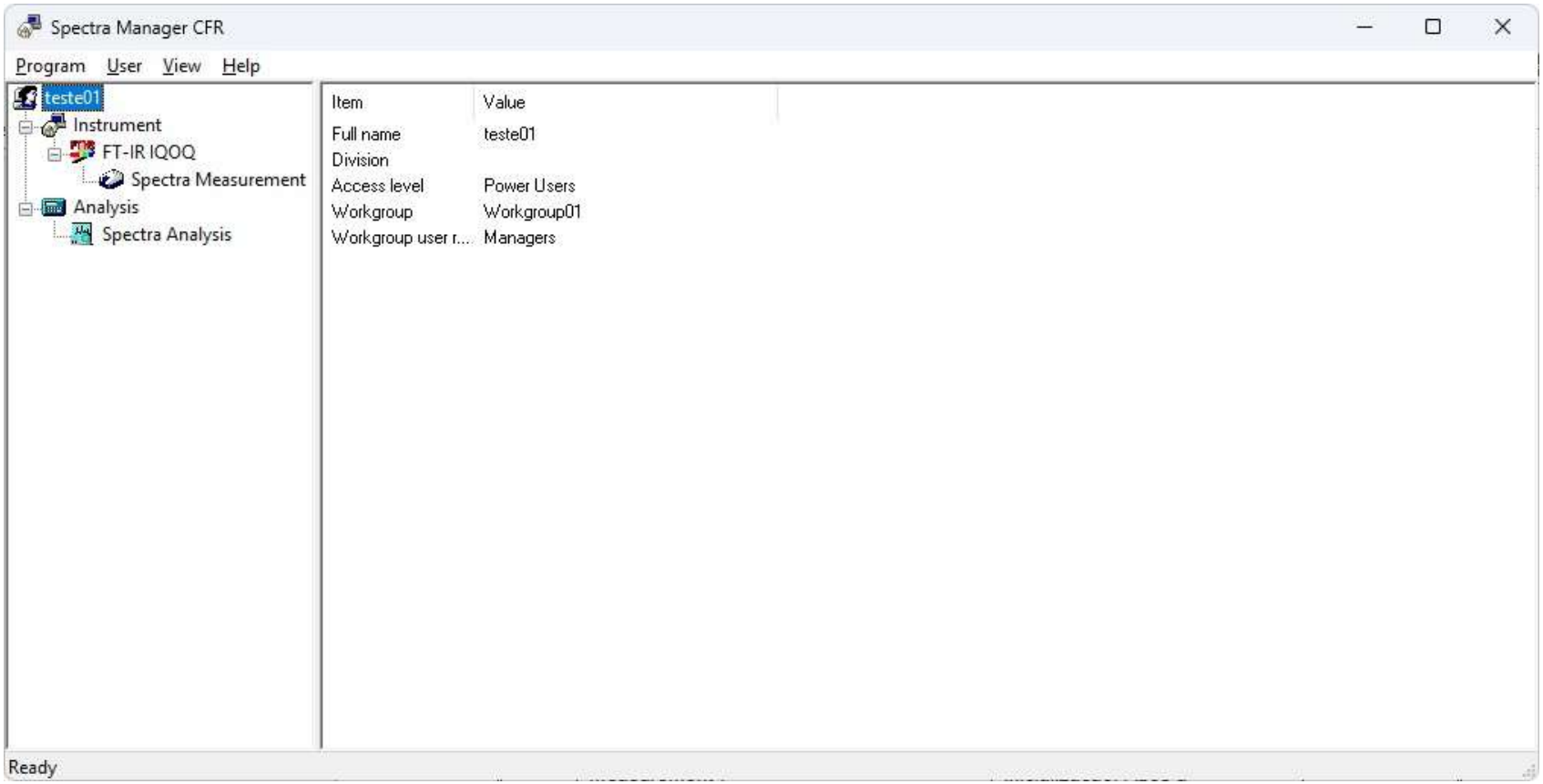
Anexo - 60


Properties of Workgroup01
General
Workgroup Folder
Registered Users
Registered Instruments and Programs
Instrument
IR-0002
FT-IR IQOQ
Spectra Measurement
Validation
Analysis Program
Spectra Analysis
JASCO Canvas
OK
Cancelar
Aplicar

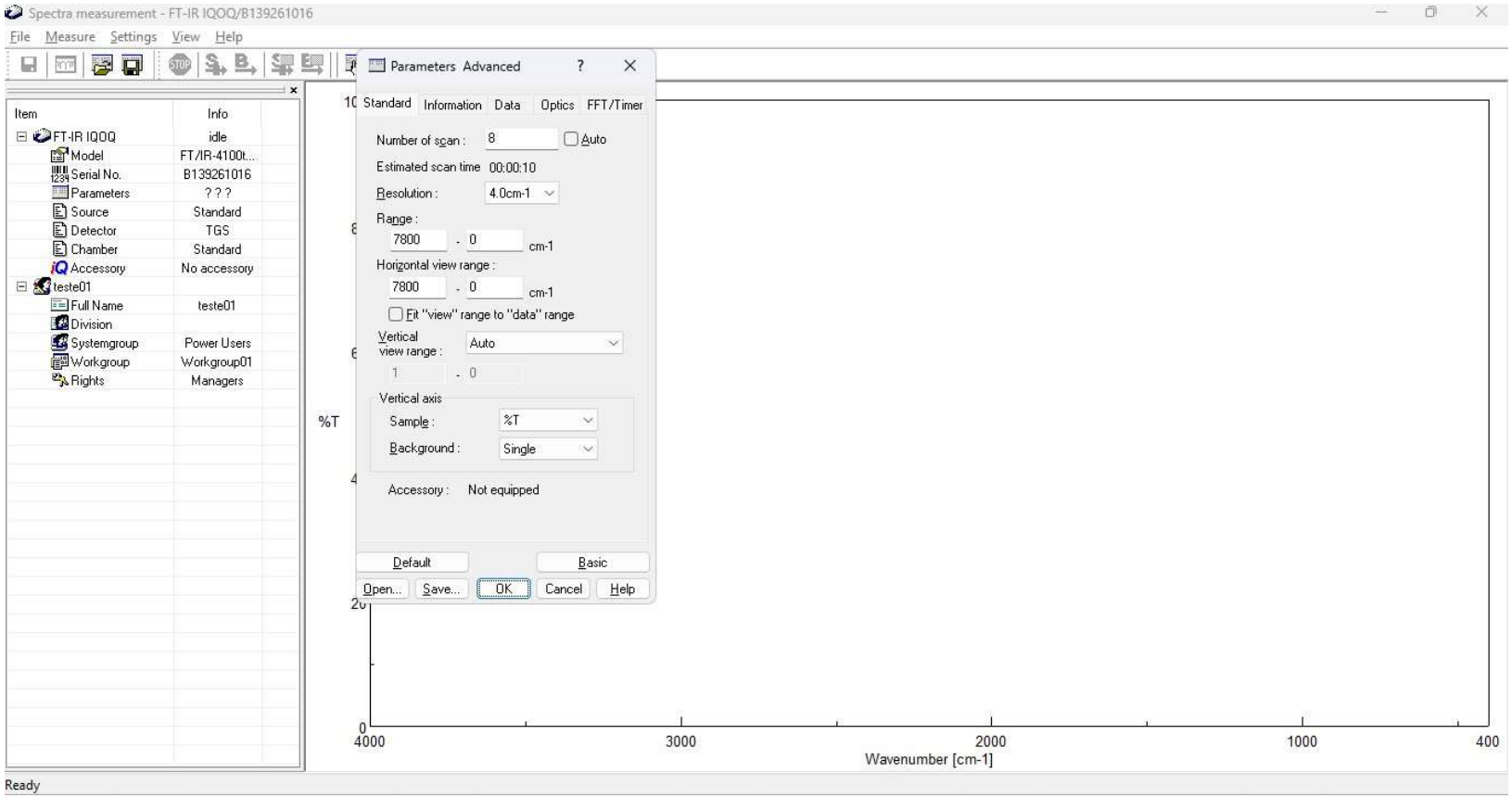
Anexo - 61


Properties of teste01(Workgroup01)
General
Registered Instruments and Programs
Instrument
FT-IR IQOQ
Spectra Measurement
Analysis Program
Spectra Analysis
OK
Cancelar
Aplicar

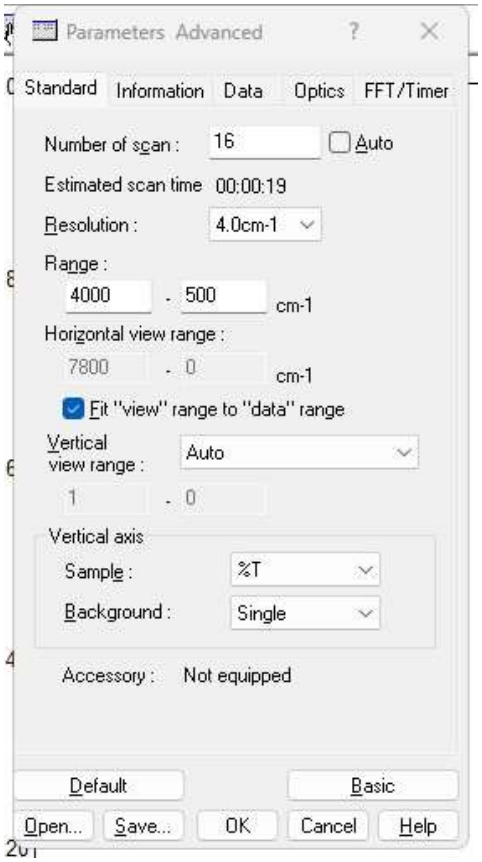
Anexo - 62


Spectra Manager CFR
Program
User
View
Help
teste01
Instrument
FT-IR IQOQ
Spectra Measurement
Analysis
Spectra Analysis
Item
Value
Full name
teste01
Division
Access level
Power Users
Workgroup
Workgroup01
Workgroup user r...
Managers
Ready

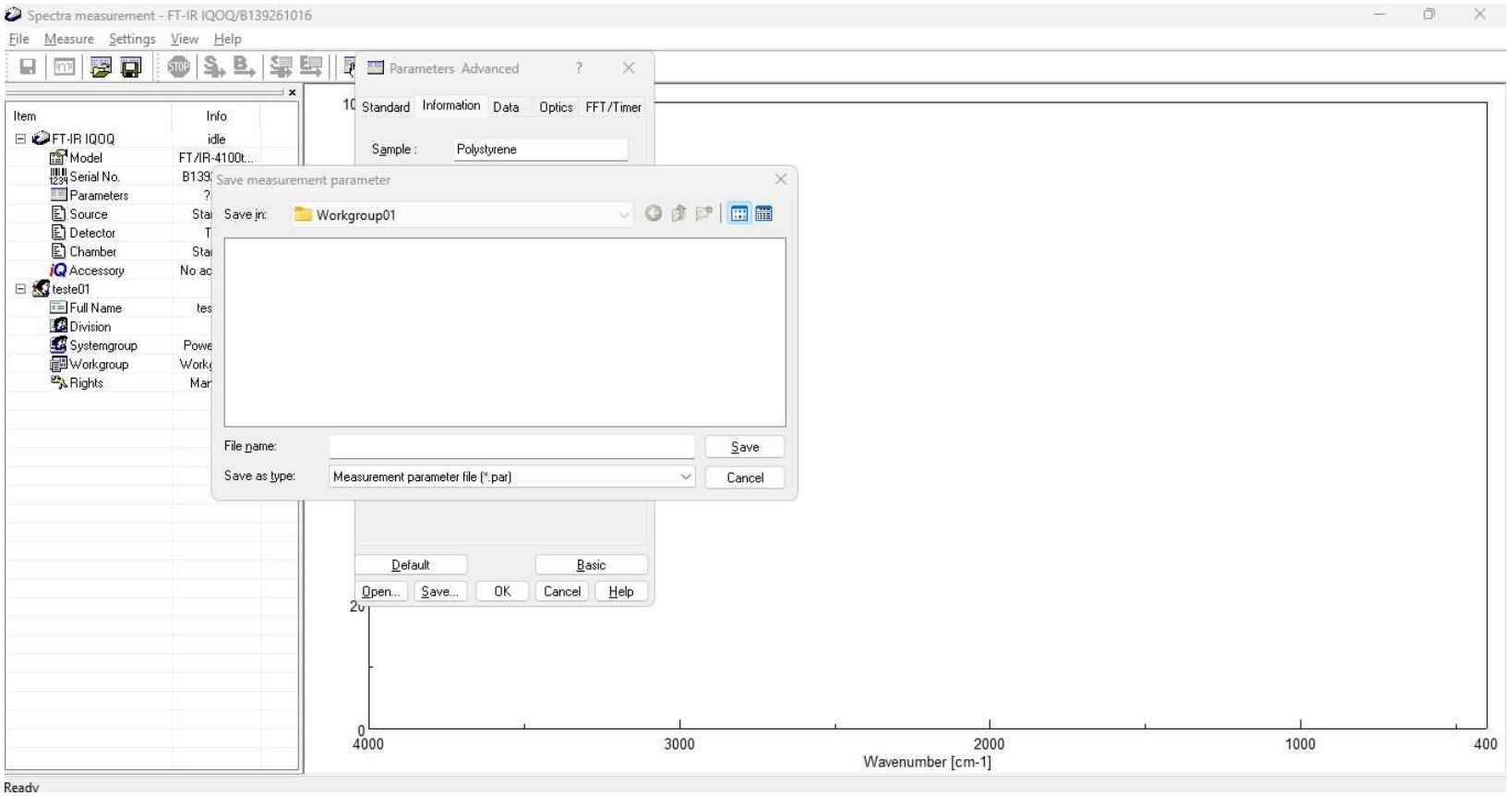
Anexo - 63


Spectra measurement - FT-IR IQOQ/B139261016
File Measure Settings View Help
Item Info
FT-IR IQOQ idle
Model FT/IR-4100t...
Serial No. B139261016
Parameters ???
Source Standard
Detector TGS
Chamber Standard
Accessory No accessory
teste01
Full Name teste01
Division
Systemgroup Power Users
Workgroup Workgroup01
Rights Managers
Parameters Advanced
Standard Information Data Optics FFT/Timer
Number of scan : 8 Auto
Estimated scan time 00:00:10
Resolution : 4.0cm-1
Range :
7800 - 0 cm-1
Horizontal view range :
7800 - 0 cm-1
Fit "view" range to "data" range
Vertical view range : Auto
1 - 0
Vertical axis
Sample : %T
Background : Single
Accessory : Not equipped
Default Basic
Open... Save... OK Cancel Help
%T
4000 3000 2000 1000 400
Wavenumber [cm-1]
Ready

Anexo - 64


Parameters Advanced
Standard
Information
Data
Optics
FFT/Timer
Number of scan :
16
Auto
Estimated scan time 00:00:19
Resolution :
4.0cm-1
Range :
4000
500
cm-1
Horizontal view range :
7800
0
cm-1
Fit "view" range to "data" range
Vertical view range :
Auto
1
0
Vertical axis
Sample :
%T
Background :
Single
Accessory :
Not equipped
Default
Basic
Open...
Save...
OK
Cancel
Help

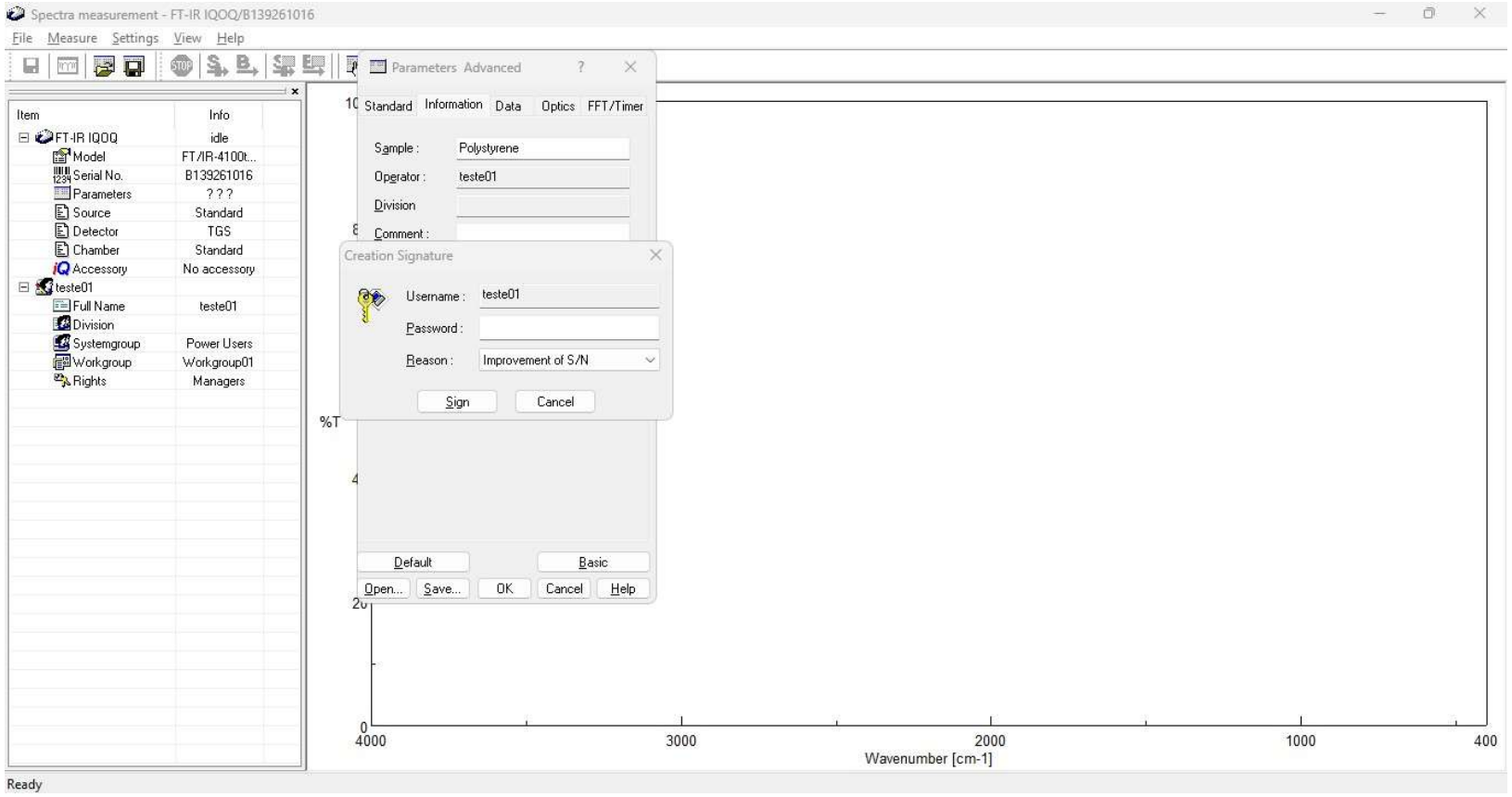
Anexo - 65


Spectra measurement - FT-IR IQOQ/B139261016
File Measure Settings View Help
Parameters Advanced
Standard Information Data Optics FFT/Timer
Sample : Polystyrene
Item Info
FT-IR IQOQ idle
Model FT/IR-4100t...
Serial No. B139
Parameters ?
Source Sta
Detector T
Chamber Sta
Accessory No ac
teste01
Full Name tes
Division
Systemgroup Powe
Workgroup Work
Rights Mar
Save measurement parameter
Save in: Workgroup01
File name:
Save
Save as type: Measurement parameter file (*.par)
Cancel
Default
Basic
Open...
Save...
OK
Cancel
Help
4000
3000
2000
1000
400
Wavenumber [cm-1]
Ready

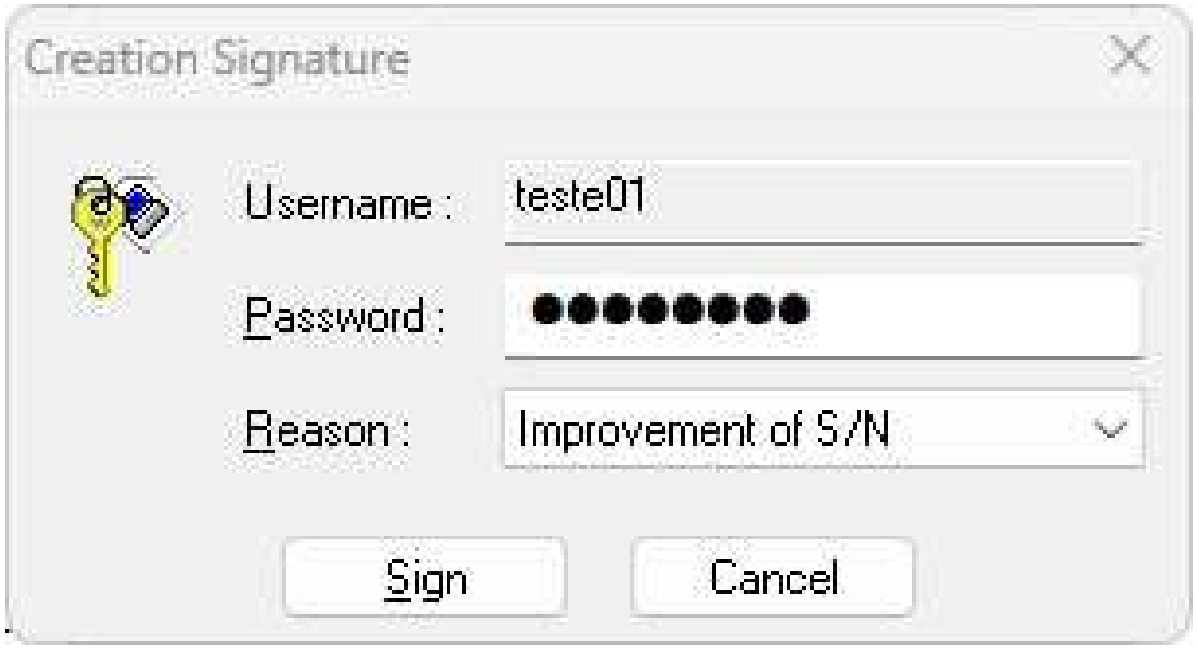
Anexo - 66


Save measurement parameter
Save in:
Workgroup01
File name:
teste01
Save
Save as type:
Measurement parameter file (*.par)
Cancel

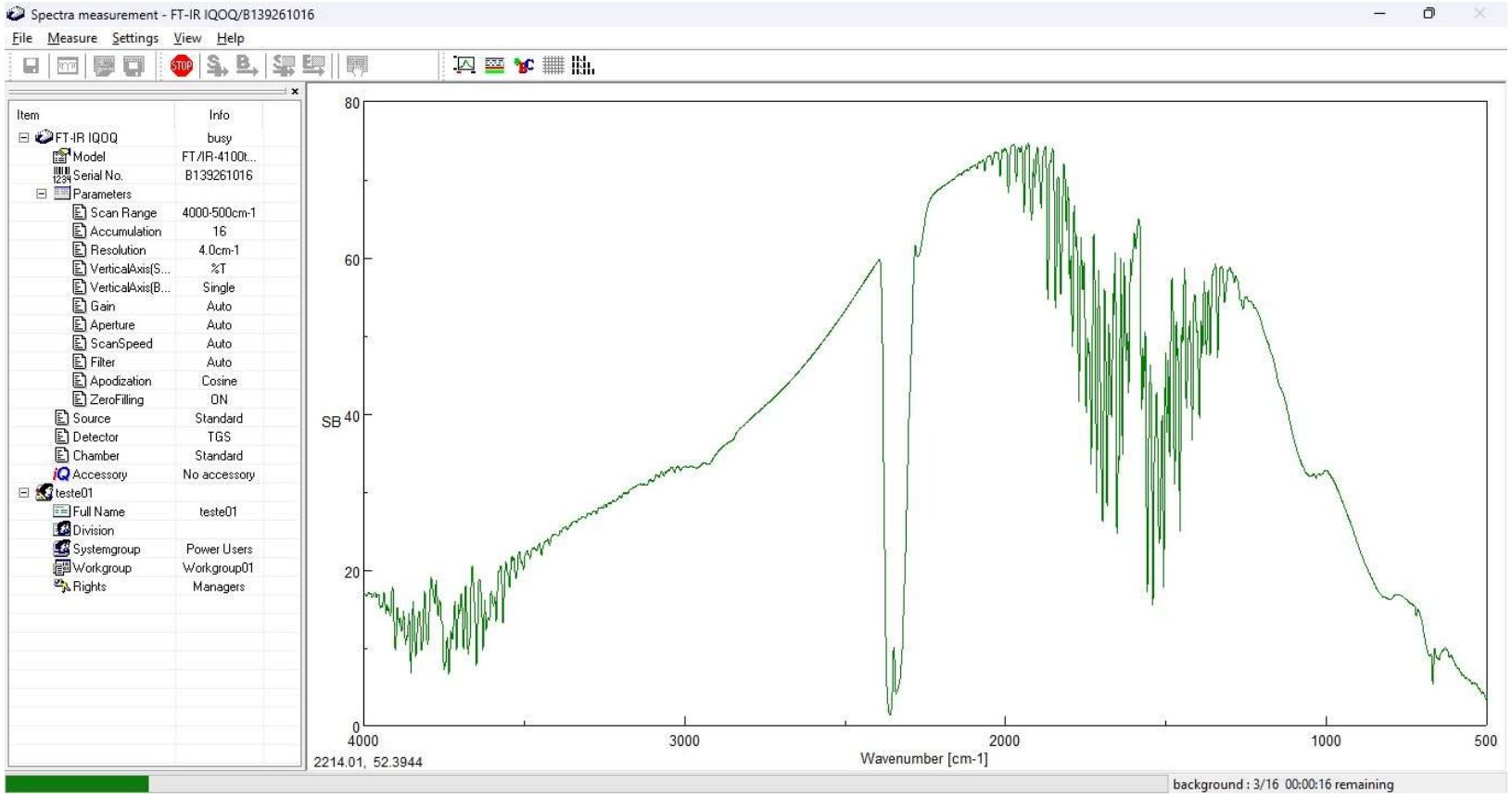
Anexo - 67


Spectra measurement - FT-IR IQOQ/B139261016
File Measure Settings View Help
Item Info
FT-IR IQOQ idle
Model FT/IR-4100t...
Serial No. B139261016
Parameters ???
Source Standard
Detector TGS
Chamber Standard
Accessory No accessory
teste01
Full Name teste01
Division
Systemgroup Power Users
Workgroup Workgroup01
Rights Managers
Parameters: Advanced
Standard Information Data Optics FFT/Timer
Sample : Polystyrene
Operator : teste01
Division
Comment :
Creation Signature
Username : teste01
Password :
Reason : Improvement of S/N
Sign Cancel
Default Basic
Open... Save... OK Cancel Help
%T
4000 3000 2000 1000 400
Wavenumber [cm-1]
Ready

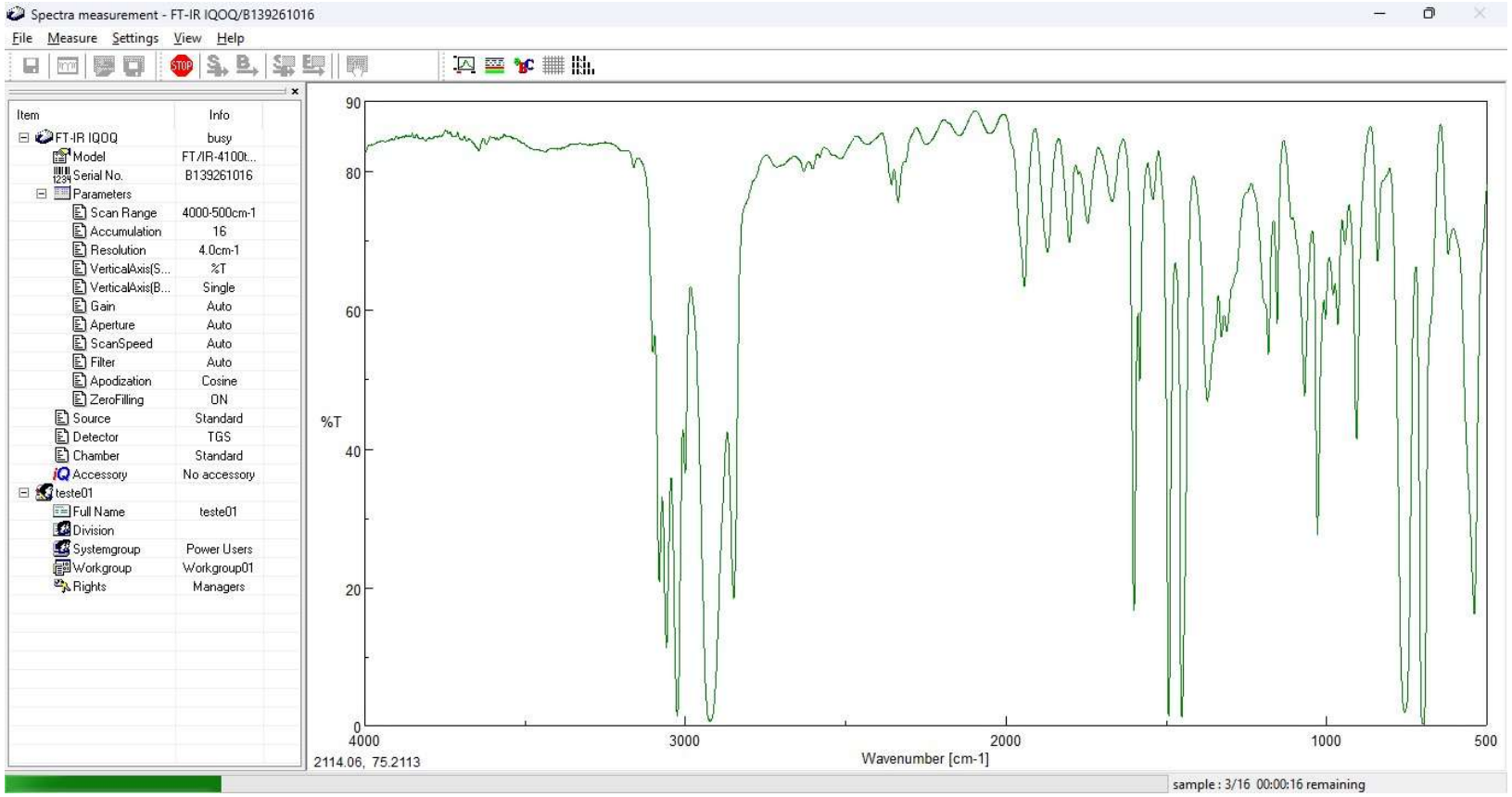
Anexo - 68


Creation Signature
Username :
teste01
Password :
Reason :
Improvement of S/N
Sign
Cancel

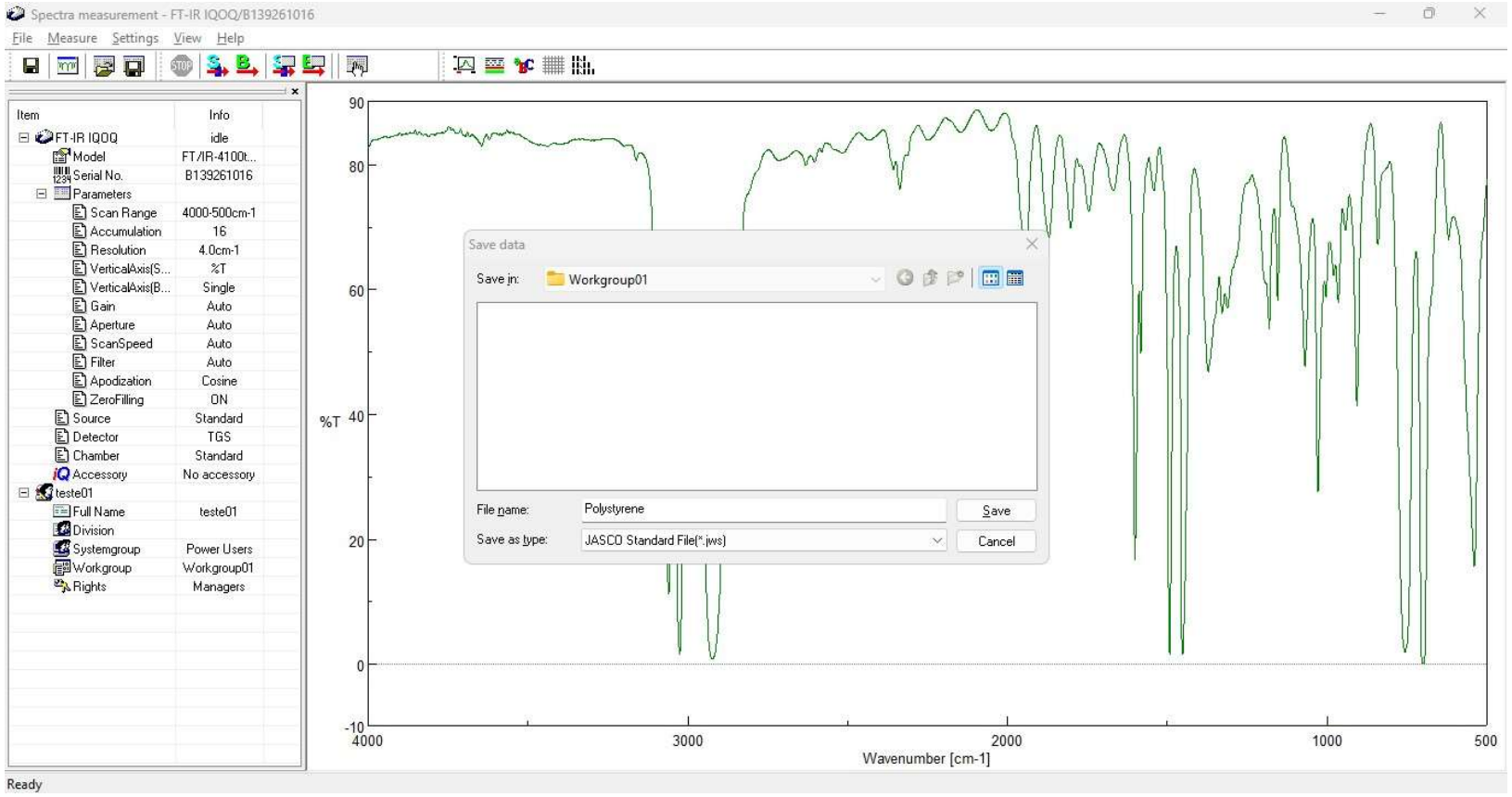
Anexo - 69


Spectra measurement - FT-IR IQOQ/B139261016
File Measure Settings View Help
Item Info
FT-IR IQOQ busy
Model FT/IR-4100t...
Serial No. B139261016
Parameters
Scan Range 4000-500cm-1
Accumulation 16
Resolution 4.0cm-1
VerticalAxis(S... %T
VerticalAxis(B... Single
Gain Auto
Aperture Auto
ScanSpeed Auto
Filter Auto
Apodization Cosine
ZeroFilling ON
Source Standard
Detector TGS
Chamber Standard
Accessory No accessory
teste01
Full Name teste01
Division
Systemgroup Power Users
Workgroup Workgroup01
Rights Managers
SB
80
60
40
20
0
4000
3000
2000
1000
500
Wavenumber [cm-1]
2214.01, 52.3944
background : 3/16 00:00:16 remaining

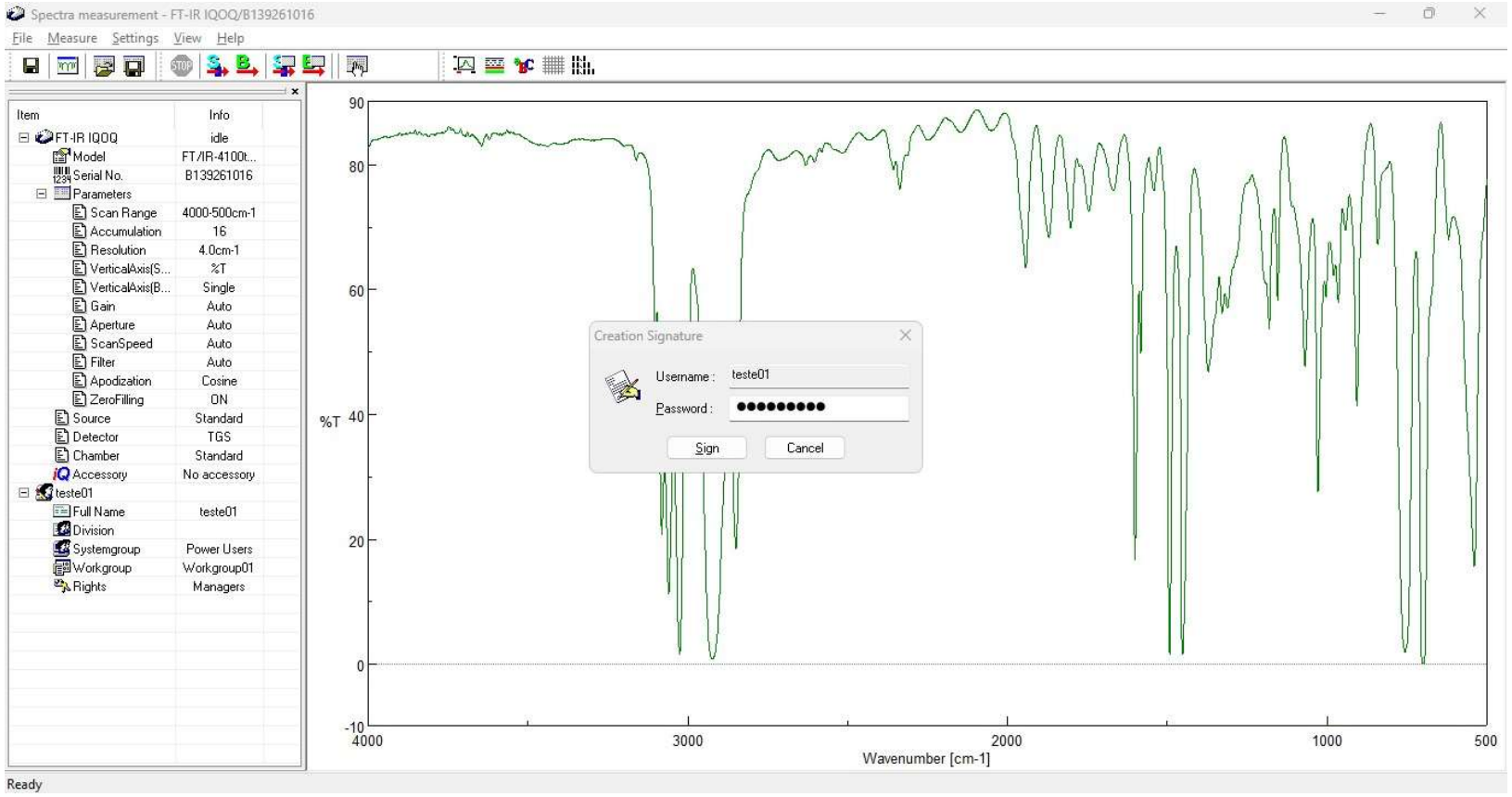
Anexo - 70


Spectra measurement - FT-IR IQOQ/B139261016
File Measure Settings View Help
Item Info
FT-IR IQOQ busy
Model FT/IR-4100t...
Serial No. B139261016
Parameters
Scan Range 4000-500cm-1
Accumulation 16
Resolution 4.0cm-1
VerticalAxis(S... %T
VerticalAxis(B... Single
Gain Auto
Aperture Auto
ScanSpeed Auto
Filter Auto
Apodization Cosine
ZeroFilling ON
Source Standard
Detector TGS
Chamber Standard
Accessory No accessory
teste01
Full Name teste01
Division
Systemgroup Power Users
Workgroup Workgroup01
Rights Managers
%T
90
80
60
40
20
0
4000
3000
2000
1000
500
Wavenumber [cm-1]
2114.06, 75.2113
sample : 3/16 00:00:16 remaining

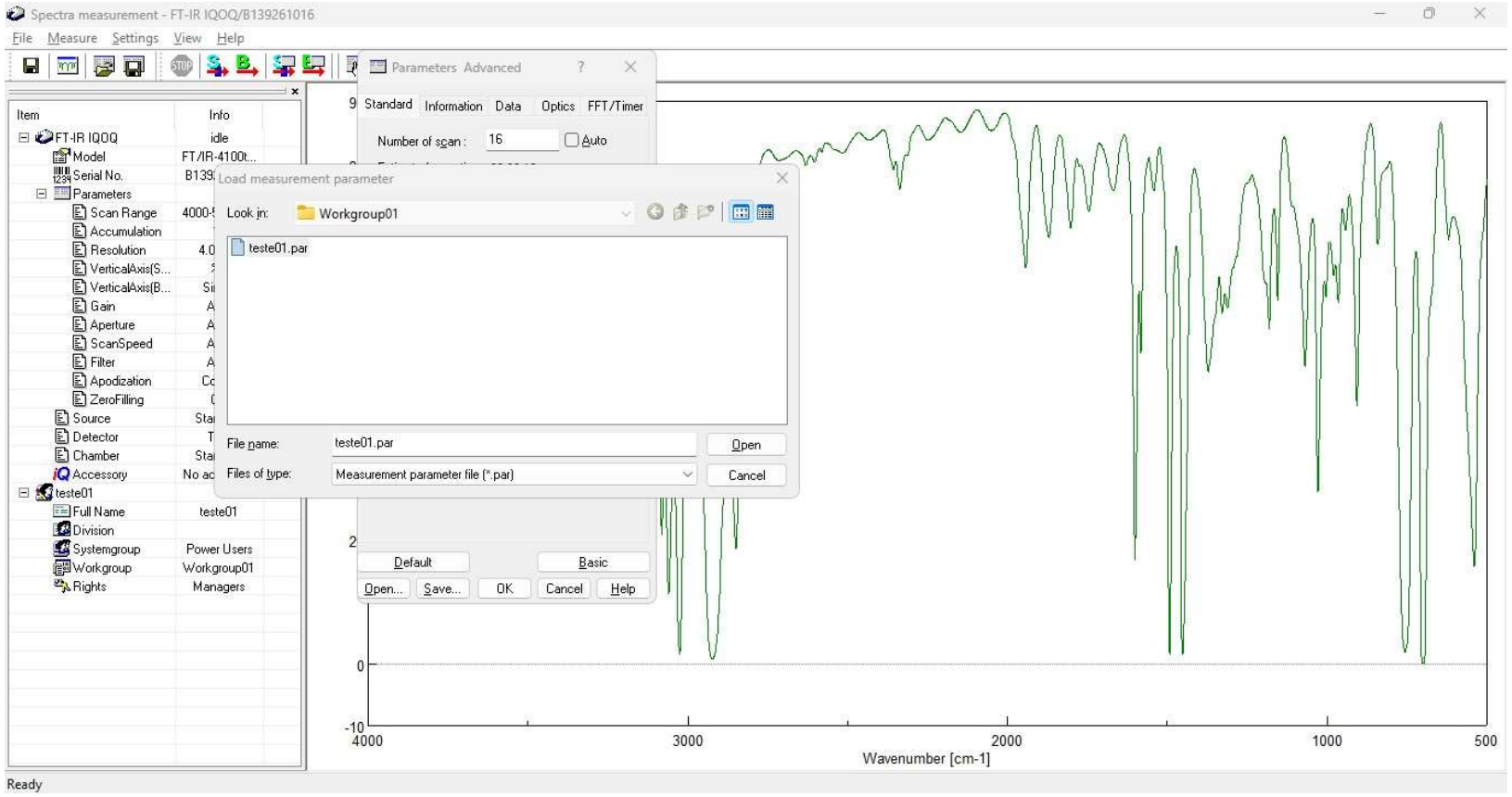
Anexo - 71


Spectra measurement - FT-IR IQOQ/B139261016
File Measure Settings View Help
Item Info
FT-IR IQOQ idle
Model FT/IR-4100t...
Serial No. B139261016
Parameters
Scan Range 4000-500cm-1
Accumulation 16
Resolution 4.0cm-1
VerticalAxis(S... %T
VerticalAxis(B... Single
Gain Auto
Aperture Auto
ScanSpeed Auto
Filter Auto
Apodization Cosine
ZeroFilling ON
Source Standard
Detector TGS
Chamber Standard
Accessory No accessory
teste01
Full Name teste01
Division
Systemgroup Power Users
Workgroup Workgroup01
Rights Managers
Save data
Save in: Workgroup01
File name: Polystyrene
Save
Save as type: JASCO Standard File(*.jws)
Cancel
%T
90
80
60
40
20
0
-10
4000
3000
2000
1000
500
Wavenumber [cm-1]
Ready

Anexo - 72


Spectra measurement - FT-IR IQOQ/B139261016
File Measure Settings View Help
Item Info
FT-IR IQOQ idle
Model FT/IR-4100t...
Serial No. B139261016
Parameters
Scan Range 4000-500cm-1
Accumulation 16
Resolution 4.0cm-1
VerticalAxis(S... %T
VerticalAxis(B... Single
Gain Auto
Aperture Auto
ScanSpeed Auto
Filter Auto
Apodization Cosine
ZeroFilling ON
Source Standard
Detector TGS
Chamber Standard
Accessory No accessory
teste01
Full Name teste01
Division
Systemgroup Power Users
Workgroup Workgroup01
Rights Managers
Creation Signature
Username : teste01
Password :
Sign
Cancel
%T
Wavenumber [cm-1]
Ready

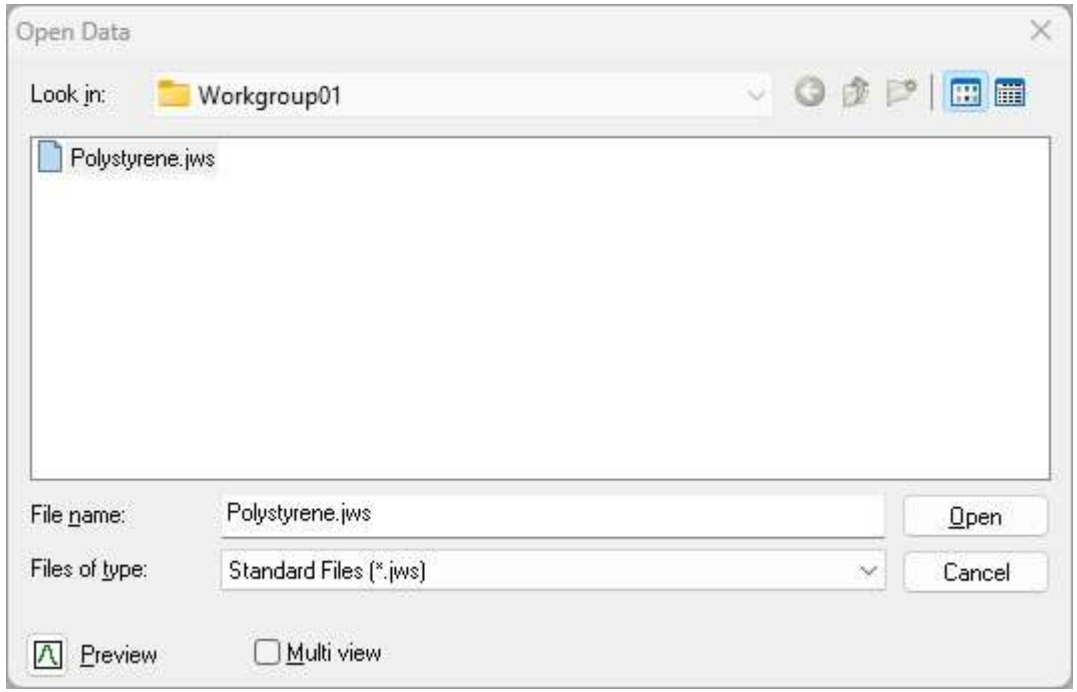
Anexo - 73


Spectra measurement - FT-IR IQOQ/B139261016
File Measure Settings View Help
Parameters Advanced
Standard Information Data Optics FFT/Timer
Number of scan: 16
Auto
Load measurement parameter
Look in: Workgroup01
teste01.par
File name: teste01.par
Open
Files of type: Measurement parameter file (*.par)
Cancel
Default
Basic
Open... Save... OK Cancel Help
Item Info
FT-IR IQOQ idle
Model
Serial No.
Parameters
Scan Range
Accumulation
Resolution
VerticalAxis(S...
VerticalAxis(B...
Gain
Aperture
ScanSpeed
Filter
Apodization
ZeroFilling
Source
Detector
Chamber
Accessory
teste01
Full Name teste01
Division
Systemgroup Power Users
Workgroup Workgroup01
Rights Managers
4000
3000
2000
1000
500
Wavenumber [cm-1]
Ready

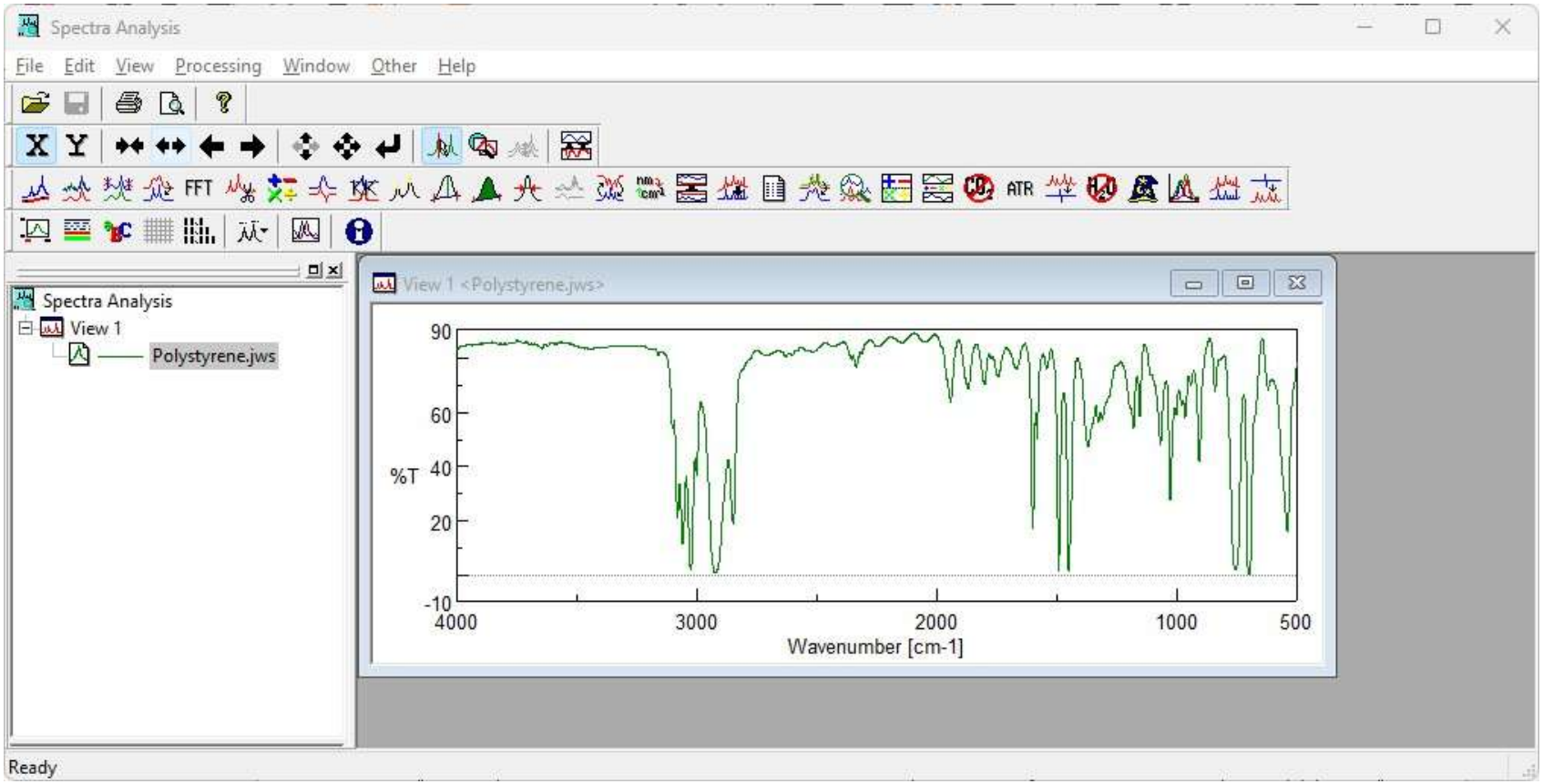
Anexo - 74


Spectra Analysis
File View Other Help
Spectra Analysis
Item
Content
Ready

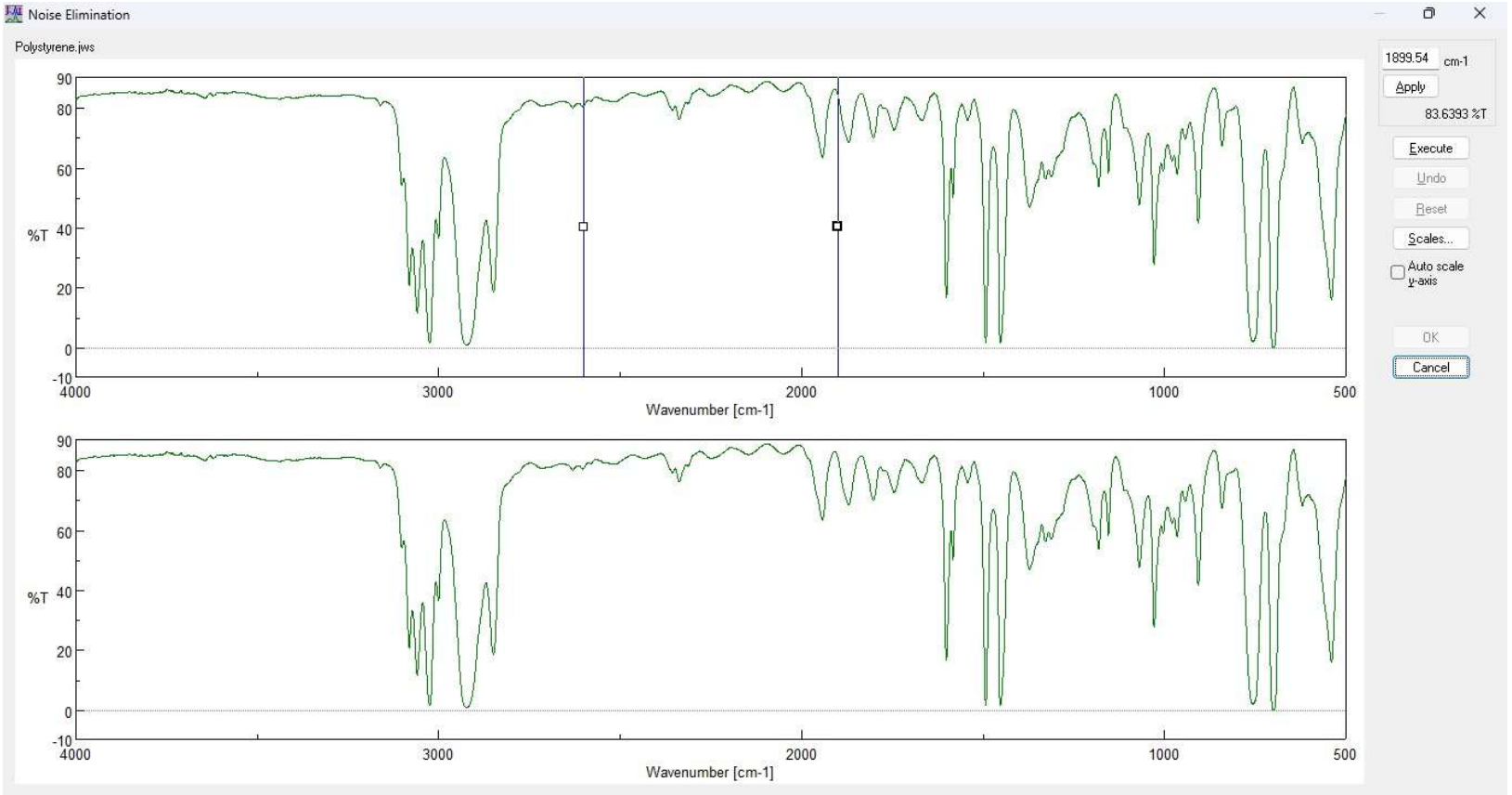
Anexo - 75


Open Data
Look in:
Workgroup01
Polystyrene.jws
File name:
Polystyrene.jws
Open
Files of type:
Standard Files (*.jws)
Cancel
Preview
Multi view

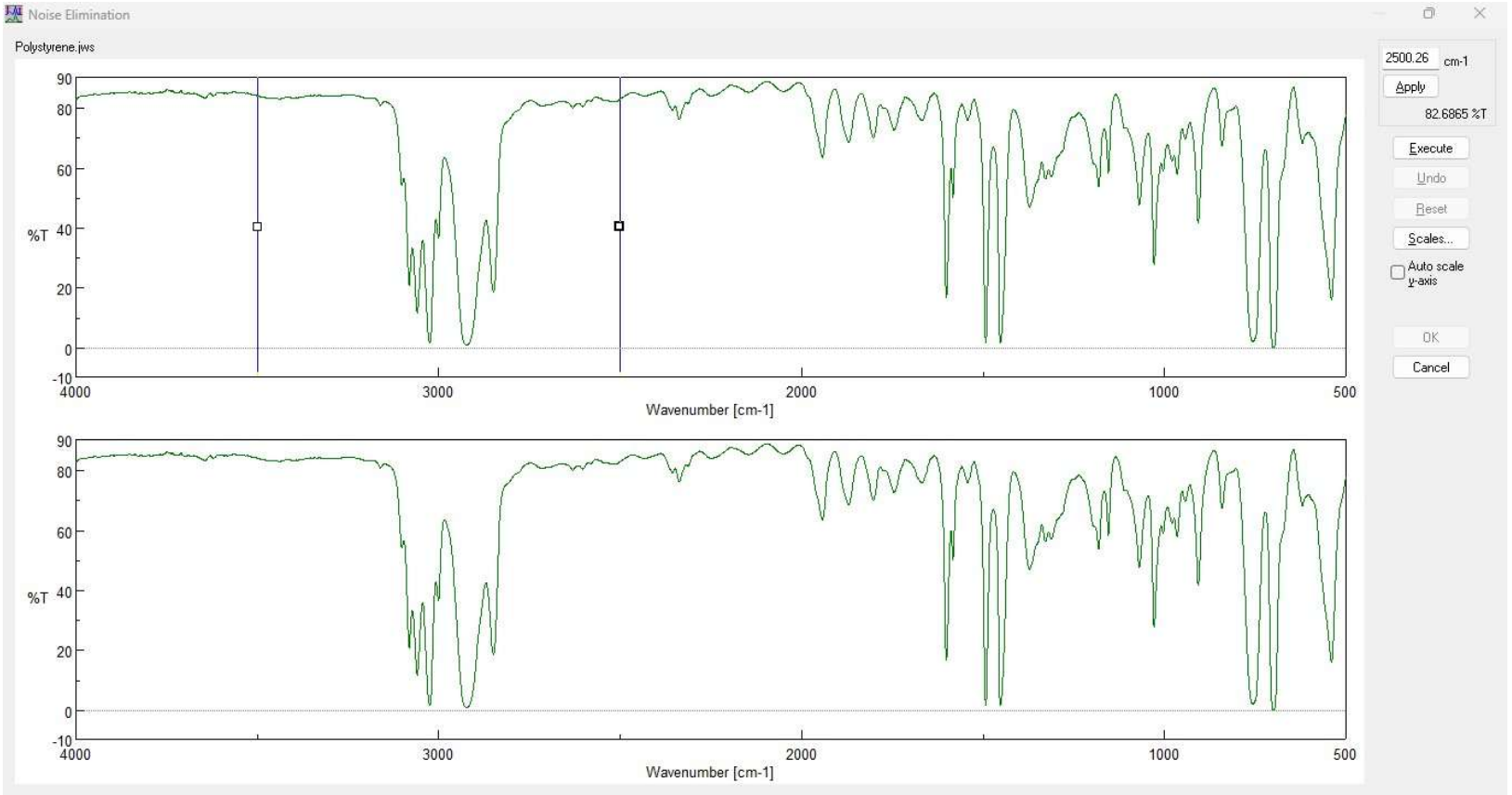
Anexo - 76


Spectra Analysis
File Edit View Processing Window Other Help
FFT
ATR
Spectra Analysis
View 1
Polystyrene.jws
View 1 <Polystyrene.jws>
90
60
%T 40
20
-10
4000
3000
2000
1000
500
Wavenumber [cm-1]
Ready

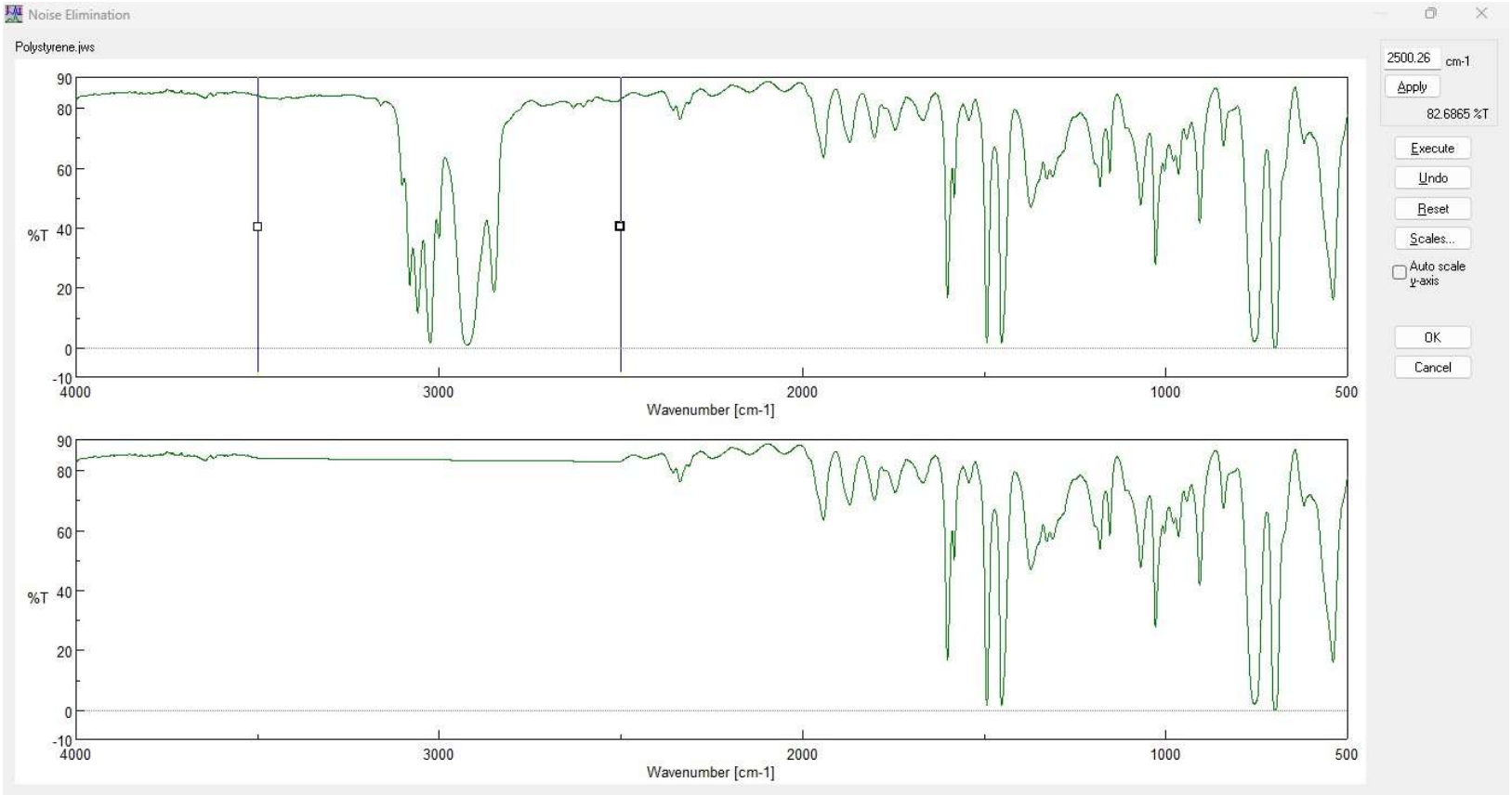
Anexo - 77


Noise Elimination
Polystyrene.jws
1899.54
cm-1
Apply
83.6393 %T
Execute
Undo
Reset
Scales...
Auto scale y-axis
OK
Cancel
%T
Wavenumber [cm-1]
4000
3000
2000
1000
500

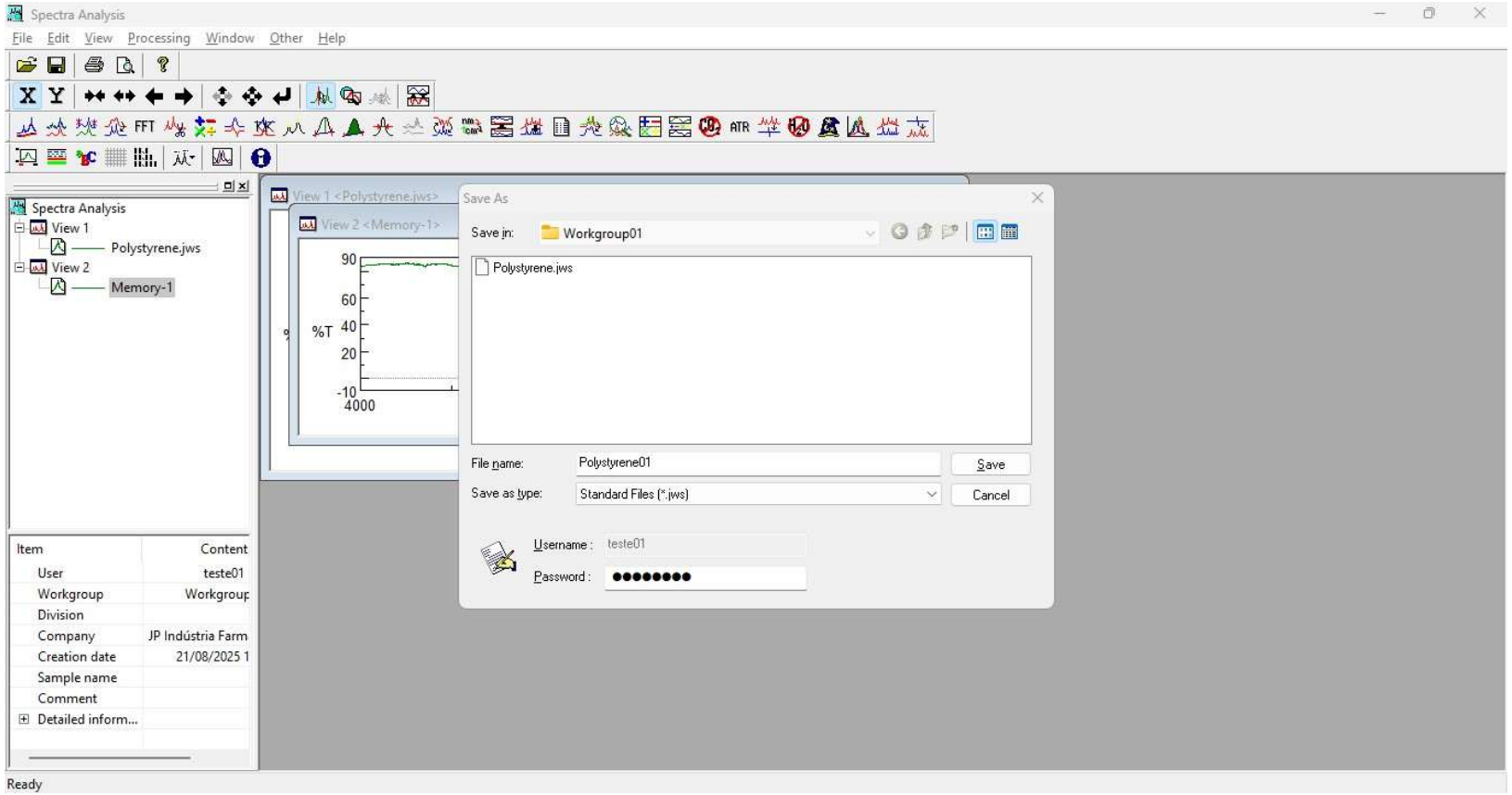
Anexo - 78


Noise Elimination
Polystyrene.jws
2500.26
cm-1
Apply
82.6865 %T
Execute
Undo
Reset
Scales...
Auto scale y-axis
OK
Cancel
%T
Wavenumber [cm-1]
4000
3000
2000
1000
500

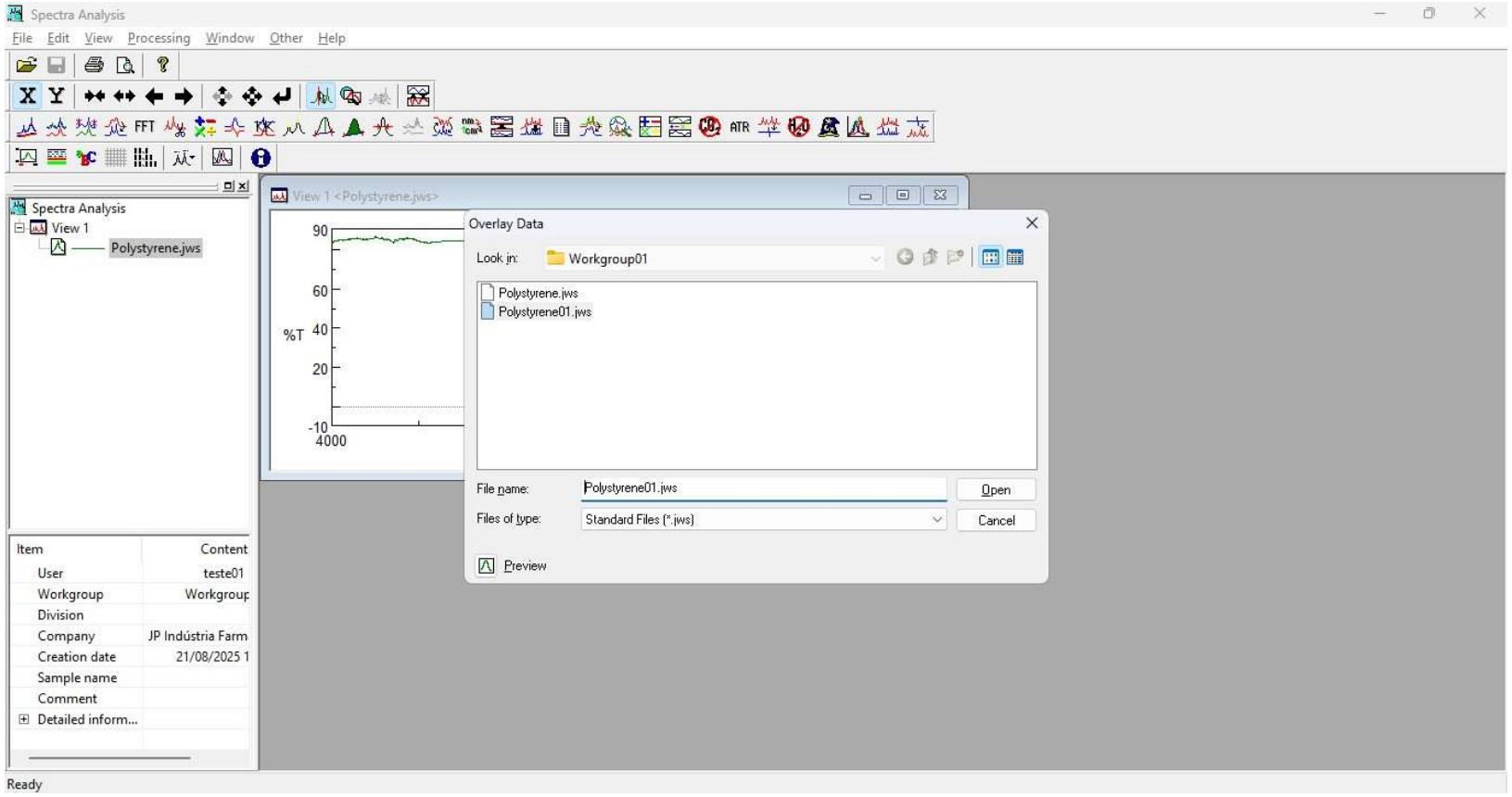
Anexo - 79


Noise Elimination
Polystyrene.jws
2500.26
cm-1
Apply
82.6865 %T
Execute
Undo
Reset
Scales...
Auto scale y-axis
OK
Cancel
%T
Wavenumber [cm-1]
4000
3000
2000
1000
500
90
80
60
40
20
0
-10

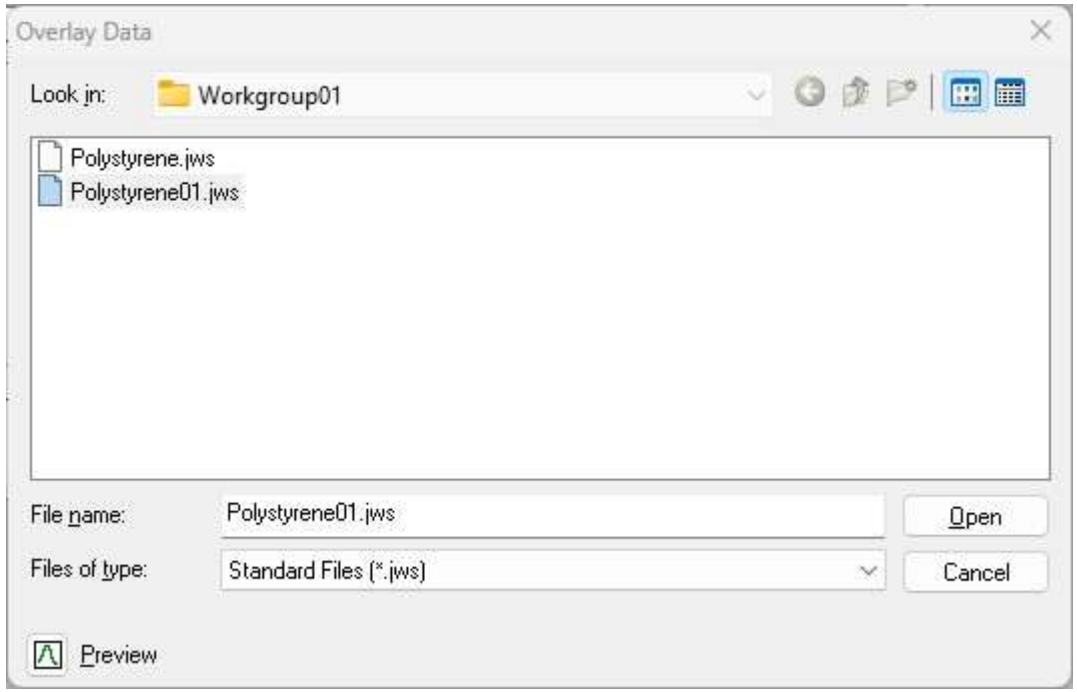
Anexo - 80


Spectra Analysis
File Edit View Processing Window Other Help
Spectra Analysis
View 1
Polystyrene.jws
View 2
Memory-1
Item Content
User teste01
Workgroup Workgroup
Division
Company JP Indústria Farm
Creation date 21/08/2025 1
Sample name
Comment
Detailed inform...
View 1 <Polystyrene.jws>
View 2 <Memory-1>
%T
Save As
Save in: Workgroup01
Polystyrene.jws
File name: Polystyrene01
Save as type: Standard Files (*.jws)
Save
Cancel
Username : teste01
Password :
Ready

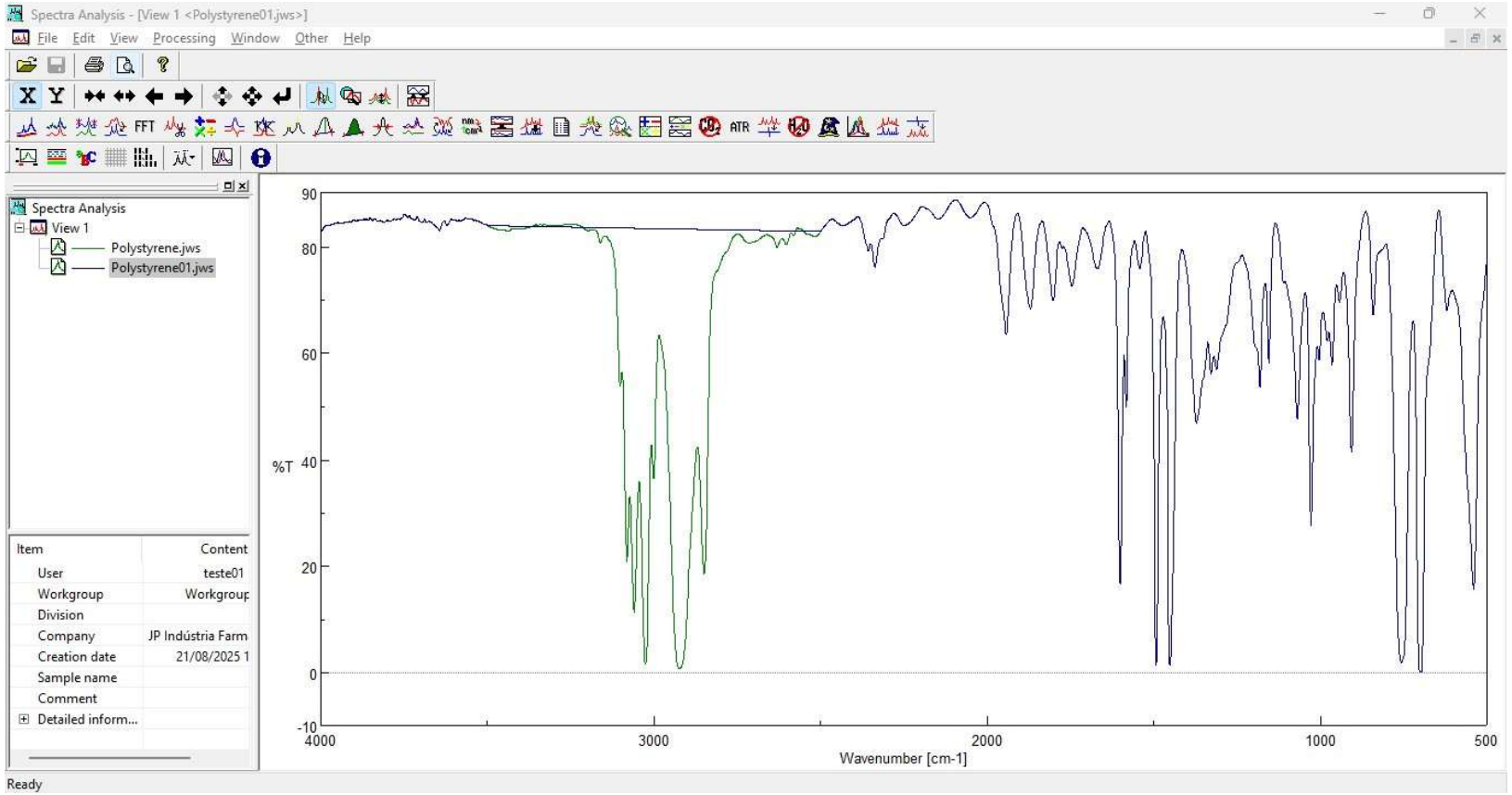
Anexo - 81


Spectra Analysis
File Edit View Processing Window Other Help
Spectra Analysis
View 1
Polystyrene.jws
View 1 <Polystyrene.jws>
90
60
%T 40
20
-10
4000
Overlay Data
Look in: Workgroup01
Polystyrene.jws
Polystyrene01.jws
File name: Polystyrene01.jws
Open
Files of type: Standard Files (*.jws)
Cancel
Preview
Item Content
User teste01
Workgroup Workgroup
Division
Company JP Indústria Farm
Creation date 21/08/2025 1
Sample name
Comment
Detailed inform...
Ready

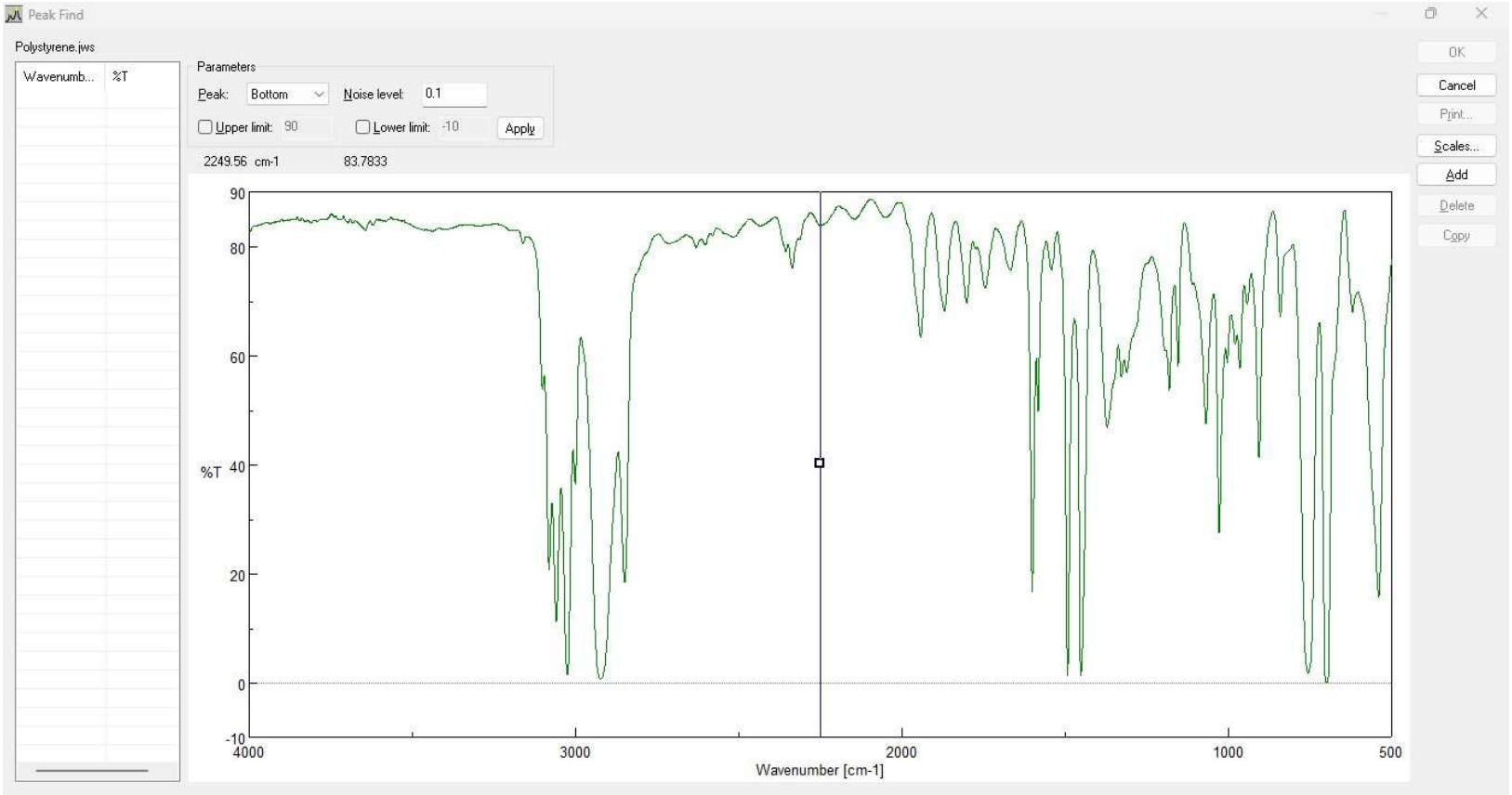
Anexo - 82


Overlay Data
Look in:
Workgroup01
Polystyrene.jws
Polystyrene01.jws
File name:
Polystyrene01.jws
Open
Files of type:
Standard Files (*.jws)
Cancel
Preview

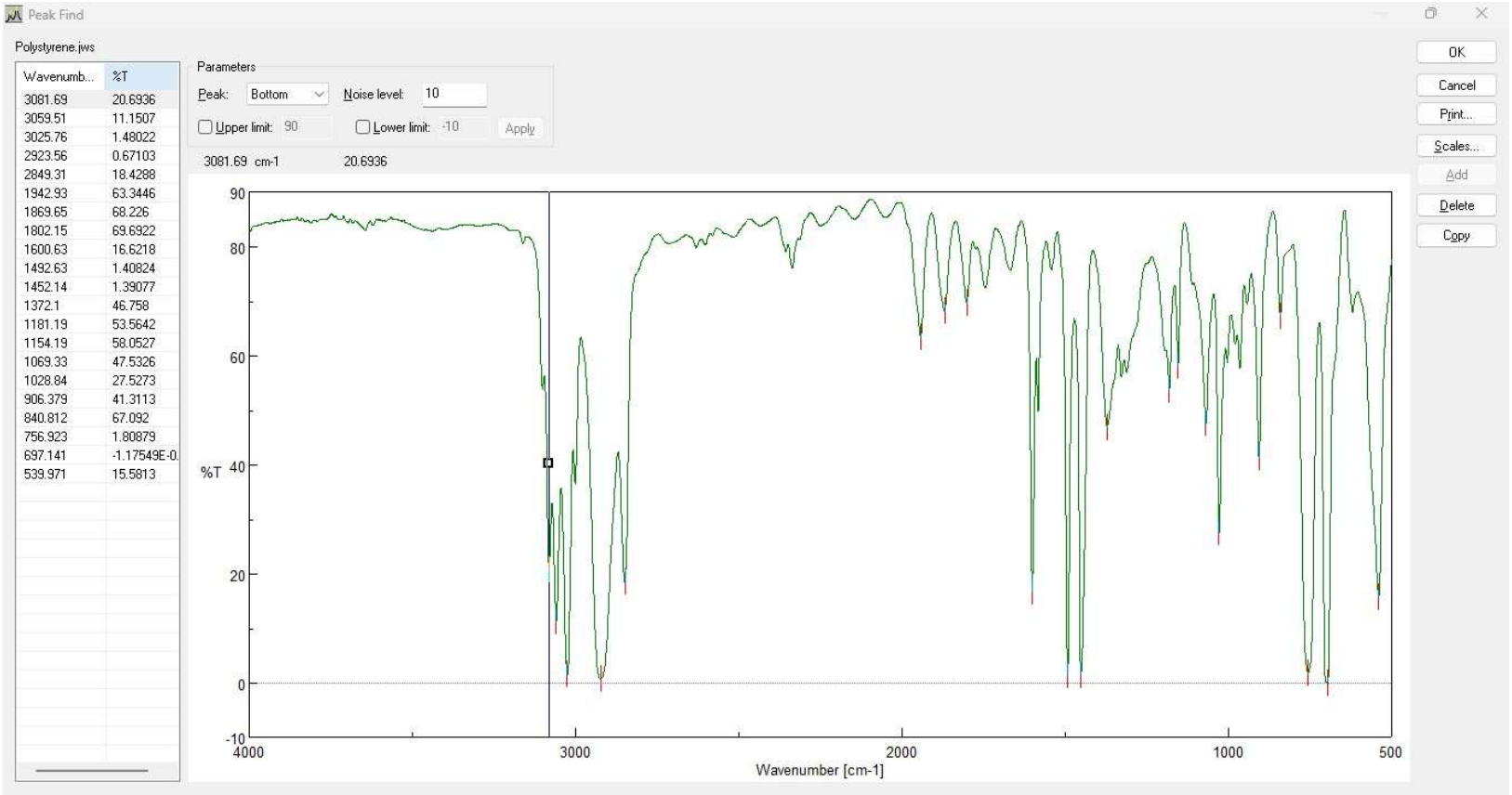
Anexo - 83


Spectra Analysis - [View 1 <Polystyrene01.jws>]
File Edit View Processing Window Other Help
Spectra Analysis
View 1
Polystyrene.jws
Polystyrene01.jws
Item Content
User teste01
Workgroup Workgroup
Division
Company JP Indústria Farm
Creation date 21/08/2025 1
Sample name
Comment
Detailed inform...
%T
90
80
60
40
20
0
-10
4000
3000
2000
1000
500
Wavenumber [cm-1]
Ready

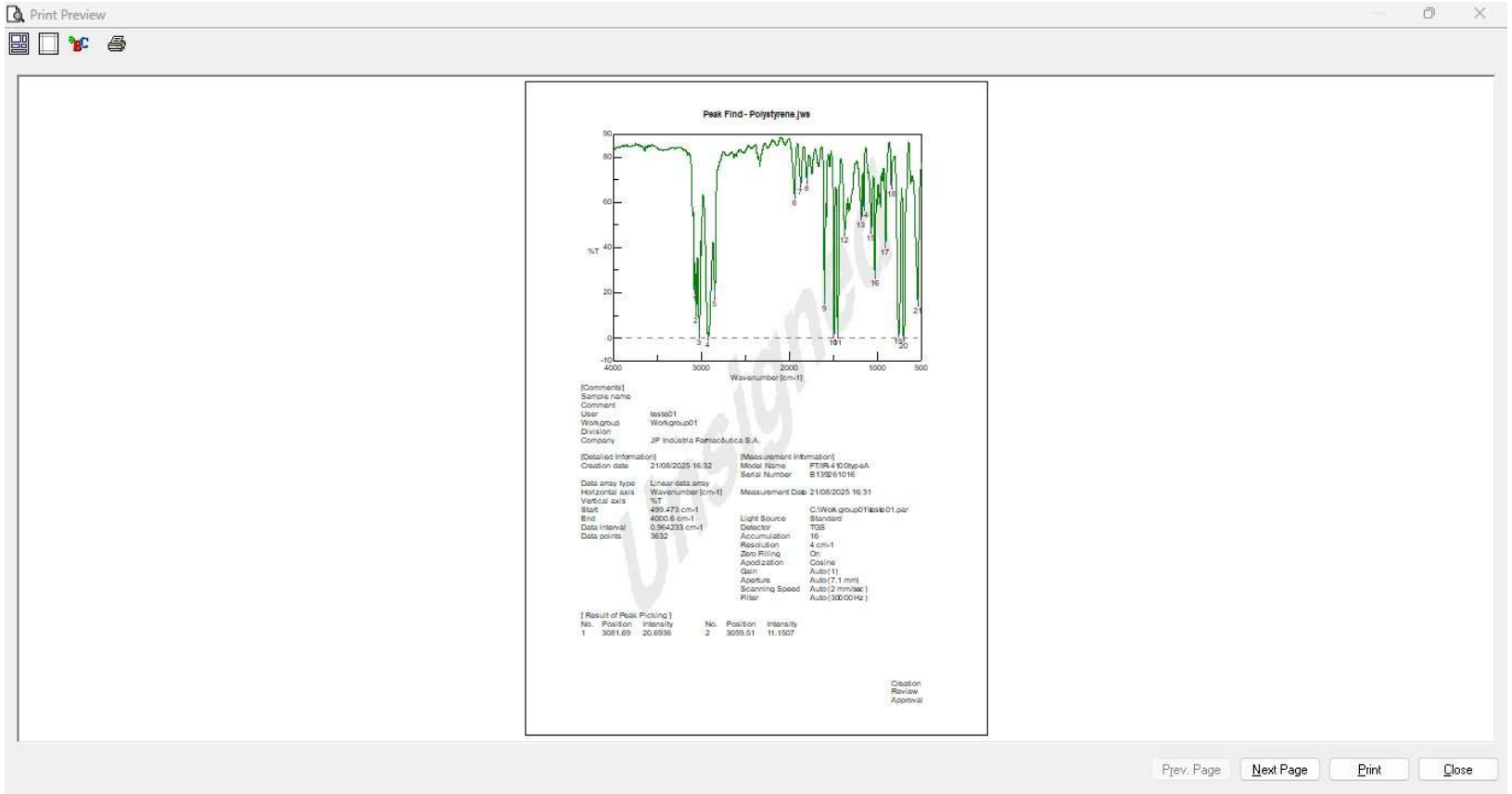
Anexo - 84


Peak Find
Polystyrene.jws
Wavenumb...
%T
Parameters
Peak: Bottom
Noise level: 0.1
Upper limit: 90
Lower limit: -10
Apply
2249.56 cm-1
83.7833
OK
Cancel
Print...
Scales...
Add
Delete
Copy
90
80
60
%T 40
20
0
-10
4000
3000
2000
1000
500
Wavenumber [cm-1]

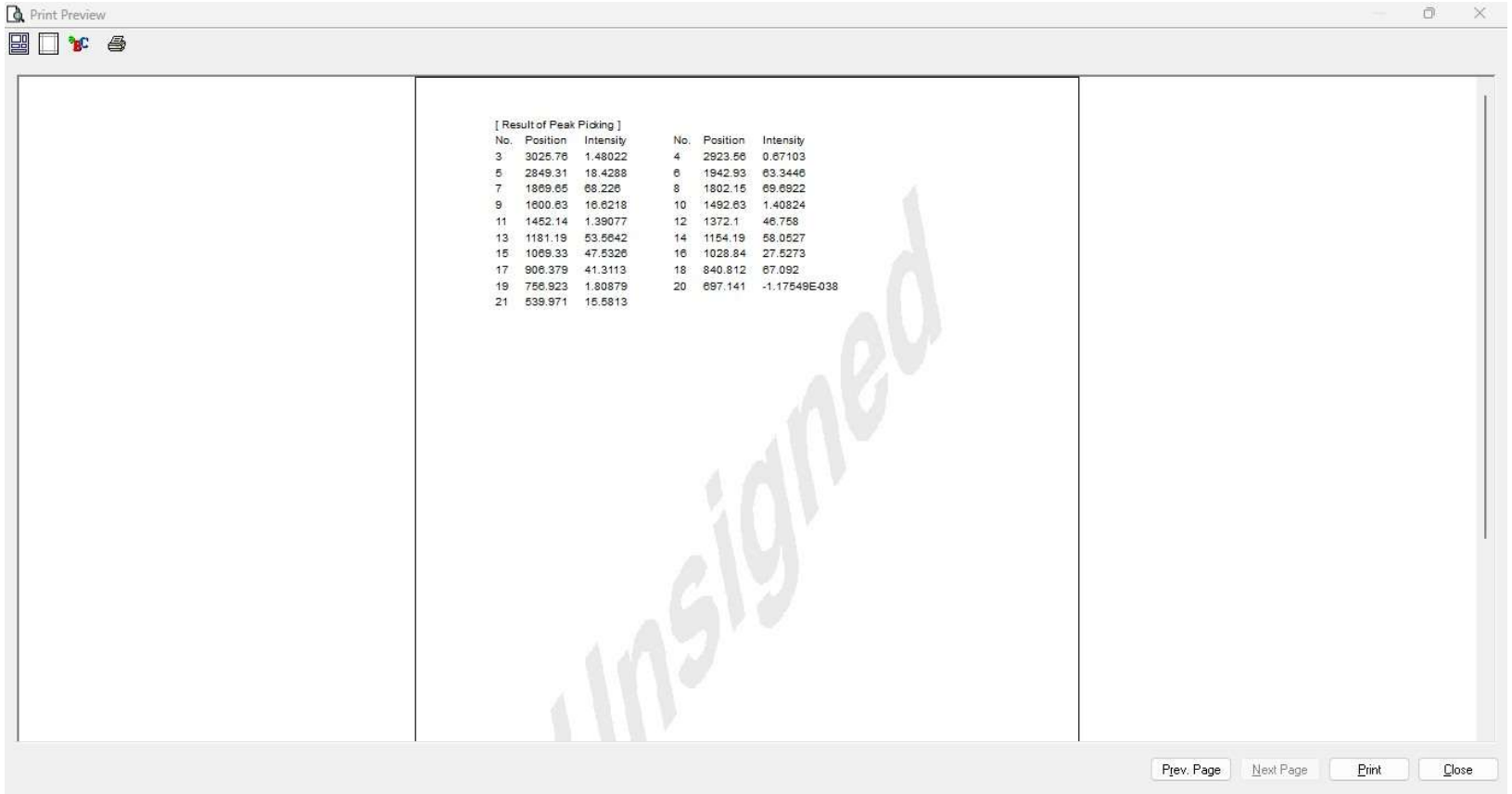
Anexo - 85


Peak Find
Polystyrene.jws
Wavenumb... %T
3081.69 20.6936
3059.51 11.1507
3025.76 1.48022
2923.56 0.67103
2849.31 18.4288
1942.93 63.3446
1869.65 68.226
1802.15 69.6922
1600.63 16.6218
1492.63 1.40824
1452.14 1.39077
1372.1 46.758
1181.19 53.5642
1154.19 58.0527
1069.33 47.5326
1028.84 27.5273
906.379 41.3113
840.812 67.092
756.923 1.80879
697.141 -1.17549E-0
539.971 15.5813
Parameters
Peak: Bottom
Noise level: 10
Upper limit: 90
Lower limit: -10
Apply
3081.69 cm-1 20.6936
OK
Cancel
Print...
Scales...
Add
Delete
Copy
%T
Wavenumber [cm-1]

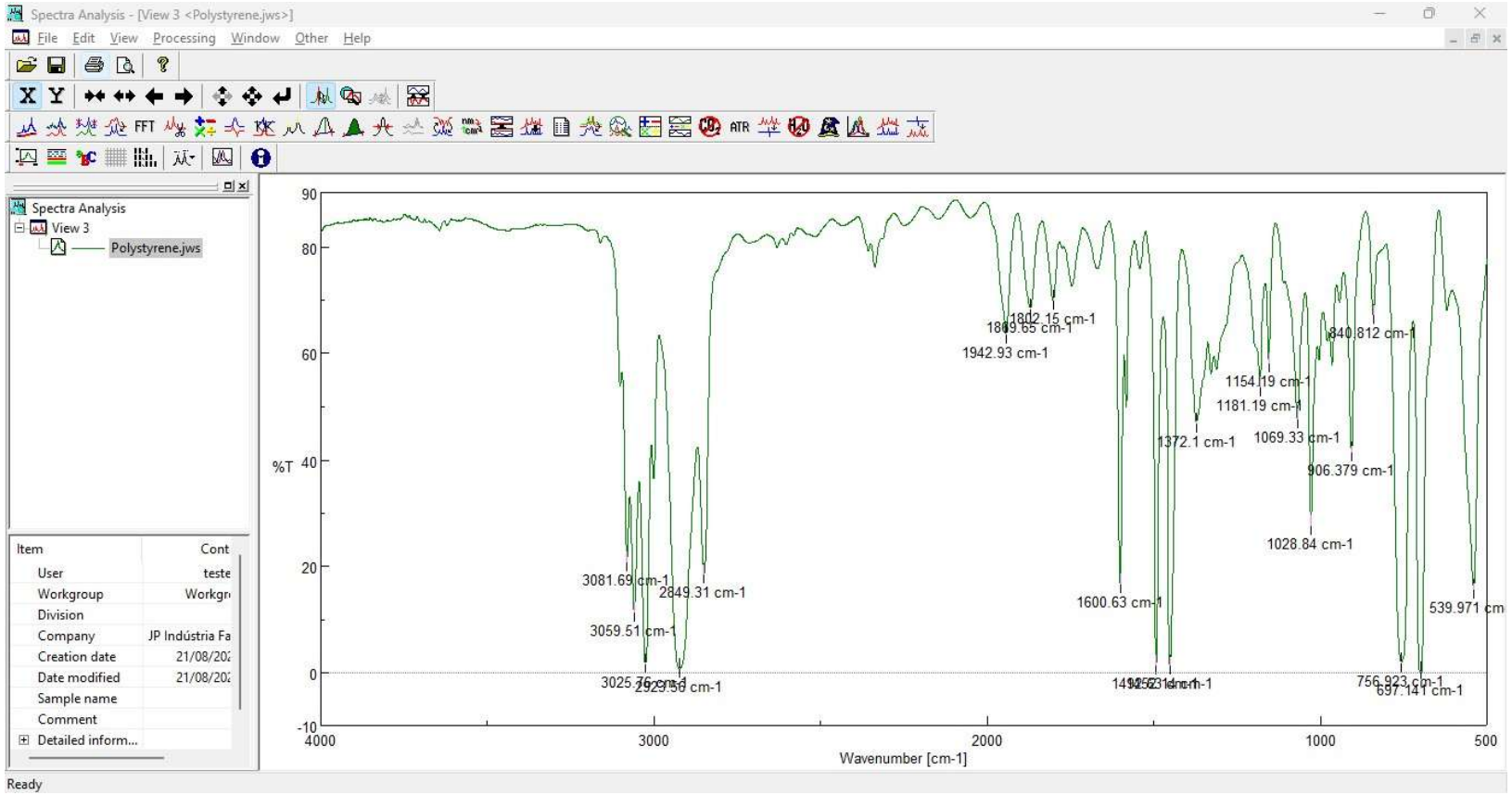
Anexo - 86


Print Preview
Peak Find - Polystyrene.jws
%T
Wavenumber [cm-1]
[Comments]
Sample name
Comment
User
Workgroup
Division
Company
[Detailed Information]
Creation date
Data array type
Horizontal axis
Vertical axis
Start
End
Data interval
Data points
[Measurement Information]
Model Name
Serial Number
Measurement Date
Light Source
Detector
Accumulation
Resolution
Zero Filling
Apodization
Gain
Aperture
Scanning Speed
Filter
[Result of Peak Picking]
No. Position Intensity
Creation
Review
Approval
Prev. Page
Next Page
Print
Close

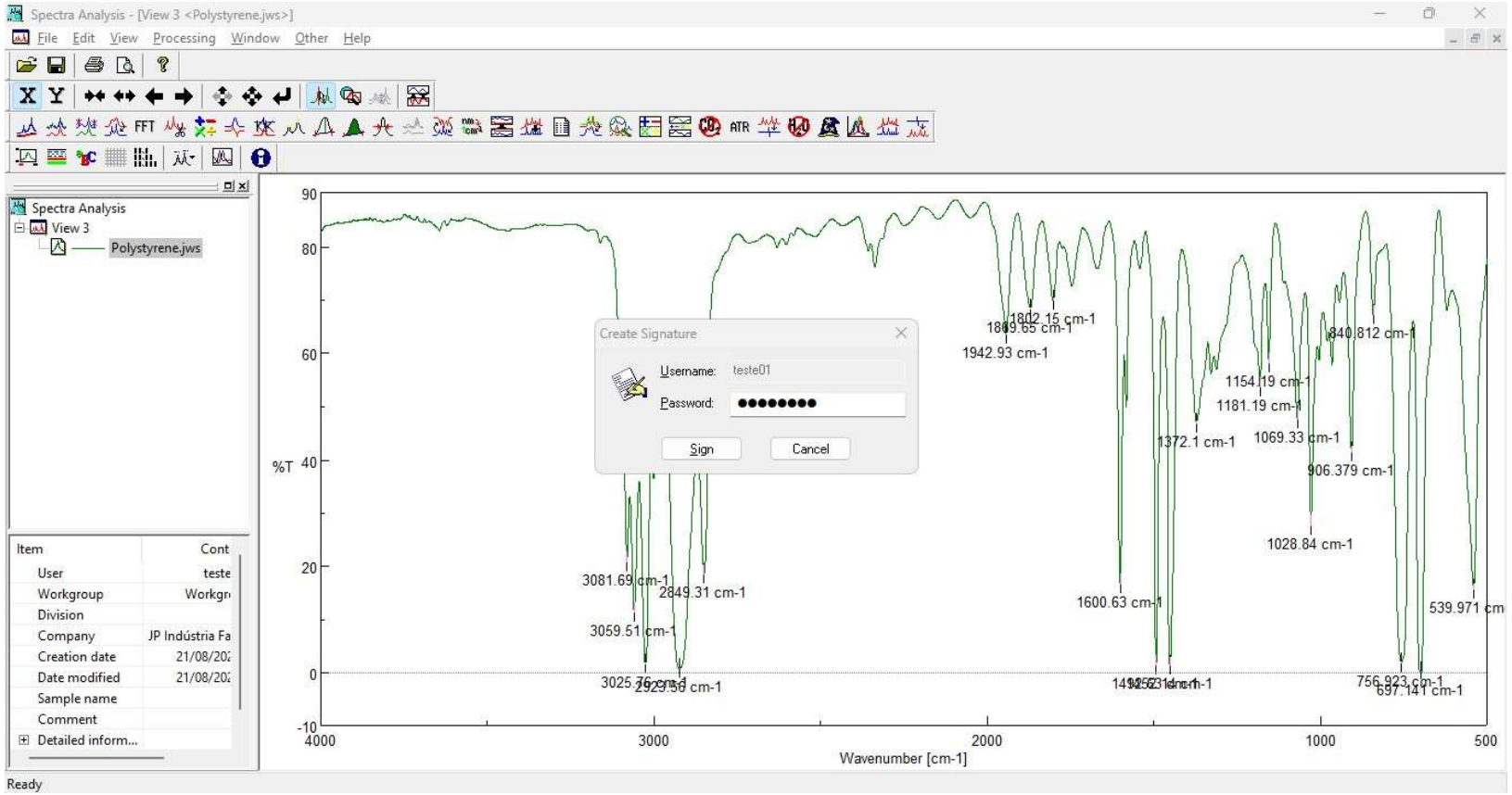
Anexo - 87


Print Preview
[Result of Peak Picking]
No. Position Intensity No. Position Intensity
3 3025.76 1.48022 4 2923.56 0.67103
5 2849.31 18.4288 6 1942.93 63.3446
7 1869.65 68.226 8 1802.15 69.6922
9 1600.63 16.6218 10 1492.63 1.40824
11 1452.14 1.39077 12 1372.1 46.758
13 1181.19 53.5642 14 1154.19 58.0527
15 1069.33 47.5326 16 1028.84 27.5273
17 906.379 41.3113 18 840.812 67.092
19 756.923 1.80879 20 697.141 -1.17549E-038
21 539.971 15.5813
Unsigned
Prev. Page
Next Page
Print
Close

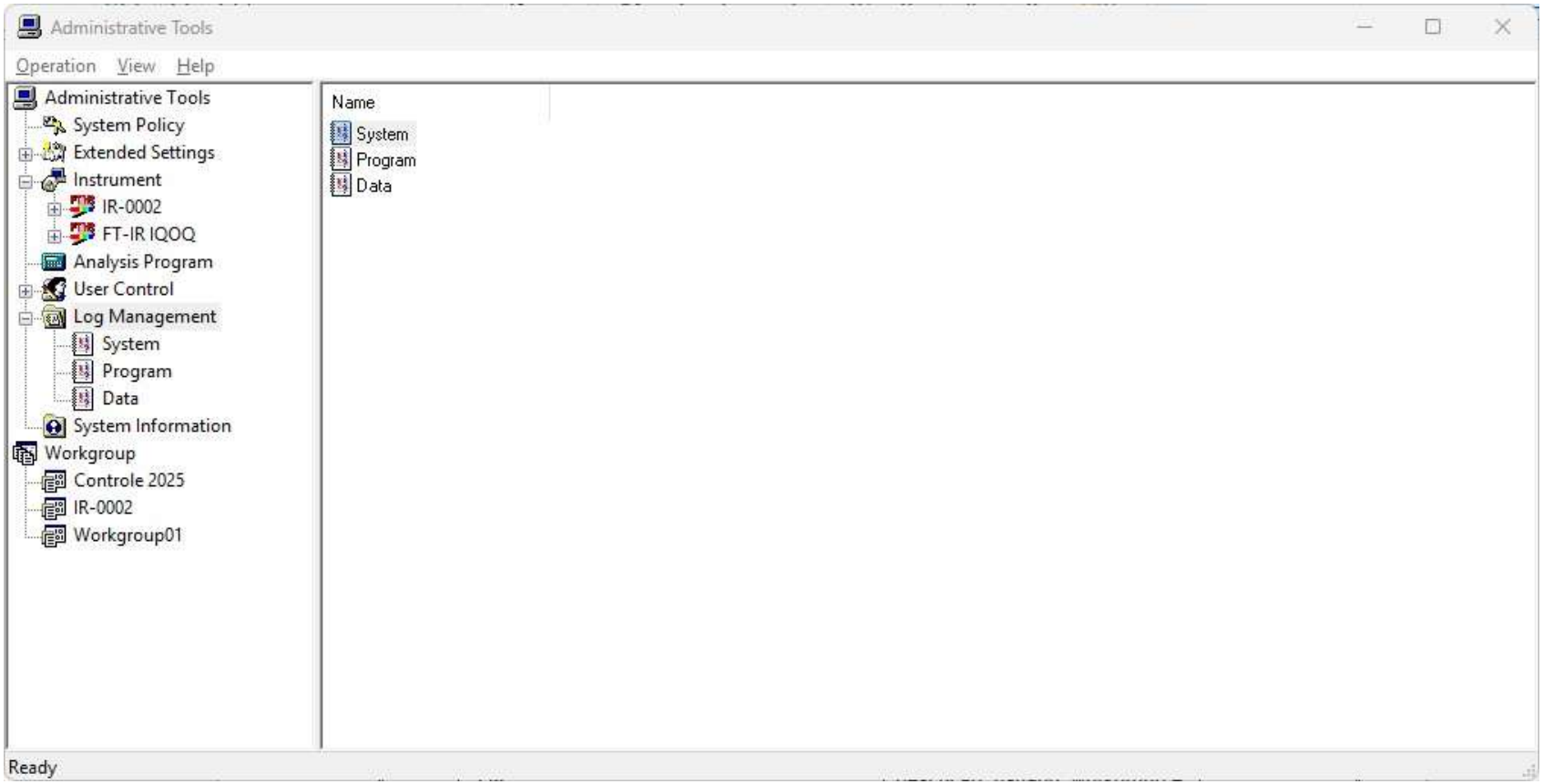
Anexo - 88


Spectra Analysis - [View 3 <Polystyrene.jws>]
File Edit View Processing Window Other Help
Spectra Analysis
View 3
Polystyrene.jws
Item Cont
User teste
Workgroup Workgr
Division
Company JP Indústria Fa
Creation date 21/08/20
Date modified 21/08/20
Sample name
Comment
Detailed inform...
%T
Wavenumber [cm-1]
3081.69 cm-1
3059.51 cm-1
2849.31 cm-1
1942.93 cm-1
1802.15 cm-1
1600.63 cm-1
1372.1 cm-1
1154.19 cm-1
1181.19 cm-1
1069.33 cm-1
906.379 cm-1
840.812 cm-1
1028.84 cm-1
539.971 cm
756.923 cm-1
Ready

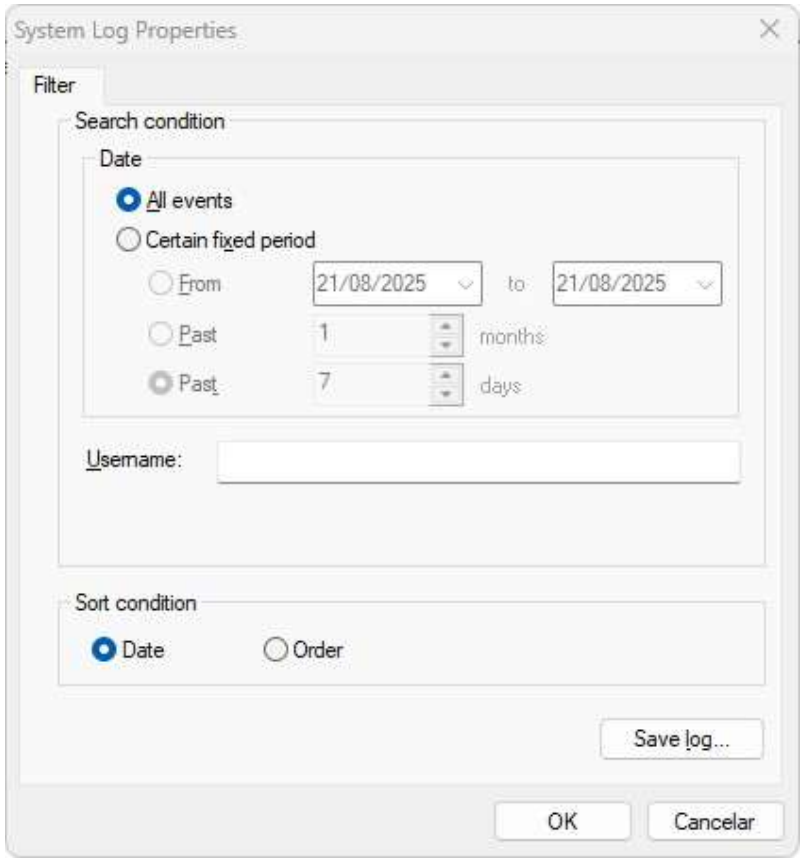
Anexo - 89


Spectra Analysis - [View 3 <Polystyrene.jws>]
File Edit View Processing Window Other Help
Spectra Analysis
View 3
Polystyrene.jws
Item Cont
User teste
Workgroup Workgr
Division
Company JP Indústria Fa
Creation date 21/08/20
Date modified 21/08/20
Sample name
Comment
Detailed inform...
Create Signature
Username: teste01
Password:
Sign
Cancel
%T
Wavenumber [cm-1]
4000
3000
2000
1000
500
3081.69 cm-1
3059.51 cm-1
2849.31 cm-1
1942.93 cm-1
1600.63 cm-1
1372.1 cm-1
1154.19 cm-1
1181.19 cm-1
1069.33 cm-1
906.379 cm-1
1028.84 cm-1
840.812 cm-1
539.971 cm
Ready

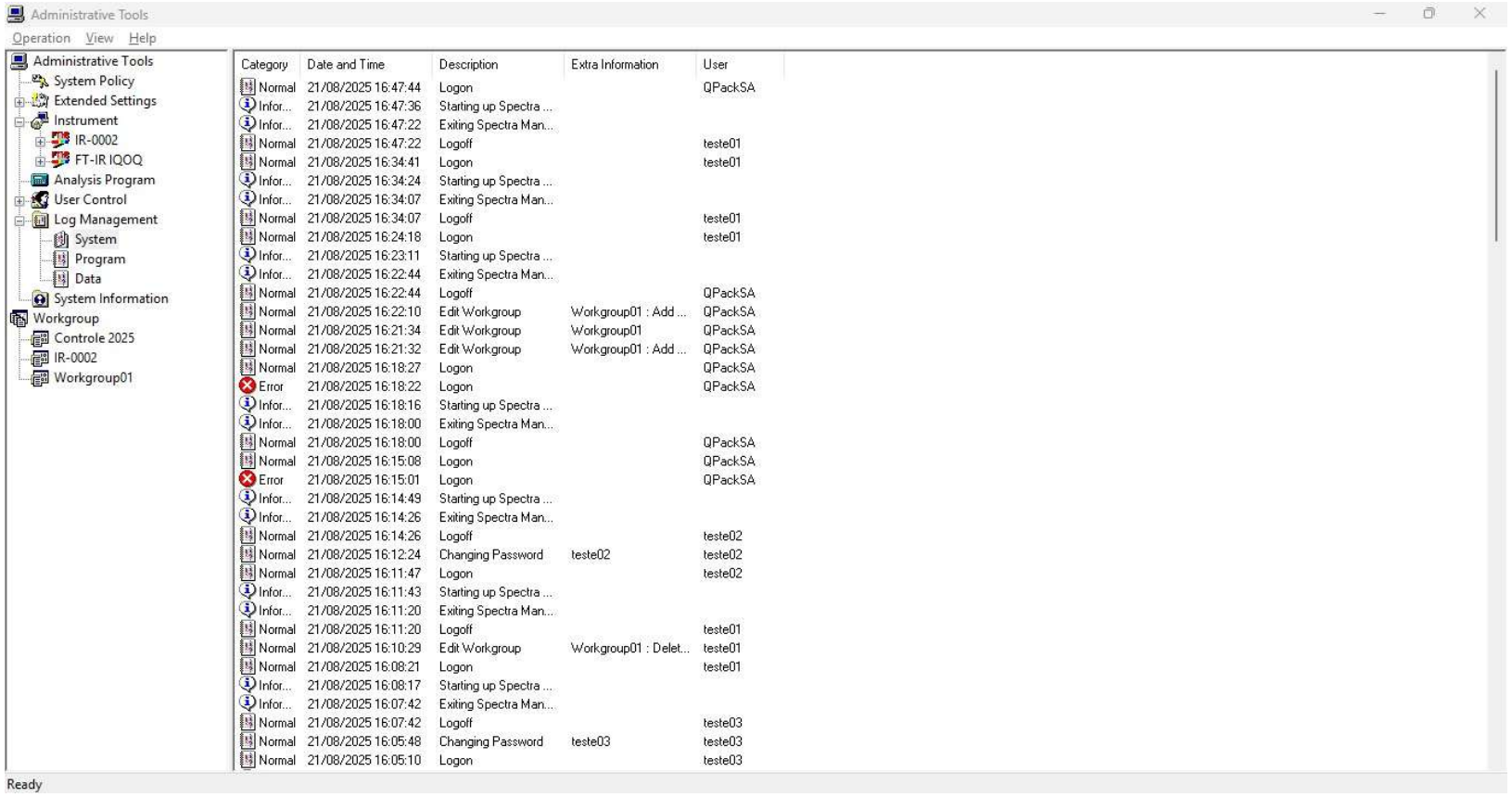
Anexo - 90


Administrative Tools
Operation View Help
Administrative Tools
System Policy
Extended Settings
Instrument
IR-0002
FT-IR IQOQ
Analysis Program
User Control
Log Management
System
Program
Data
System Information
Workgroup
Controle 2025
IR-0002
Workgroup01
Name
System
Program
Data
Ready

Anexo - 91

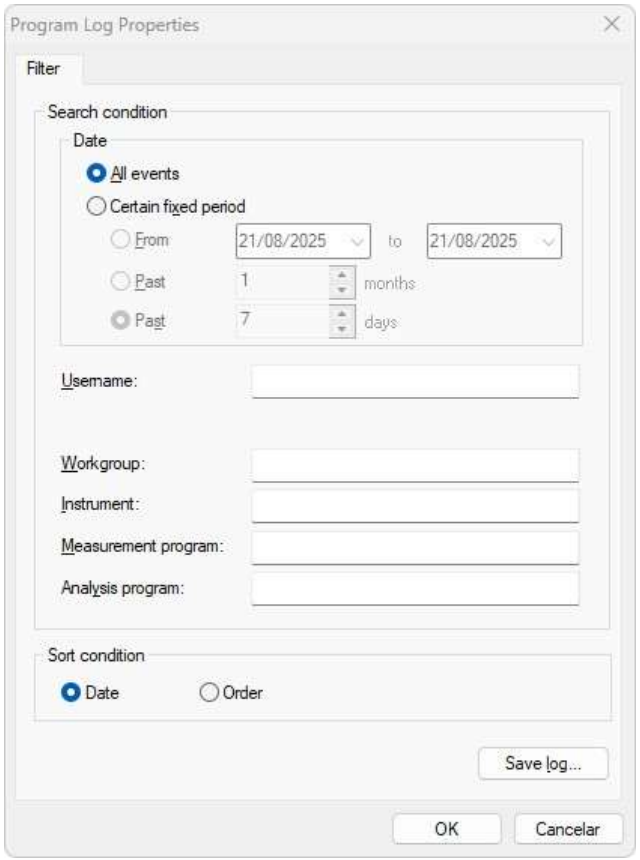

System Log Properties
Filter
Search condition
Date
All events
Certain fixed period
From
21/08/2025
to
21/08/2025
Past
1
months
Past
7
days
Username:
Sort condition
Date
Order
Save log...
OK
Cancelar

Anexo - 92

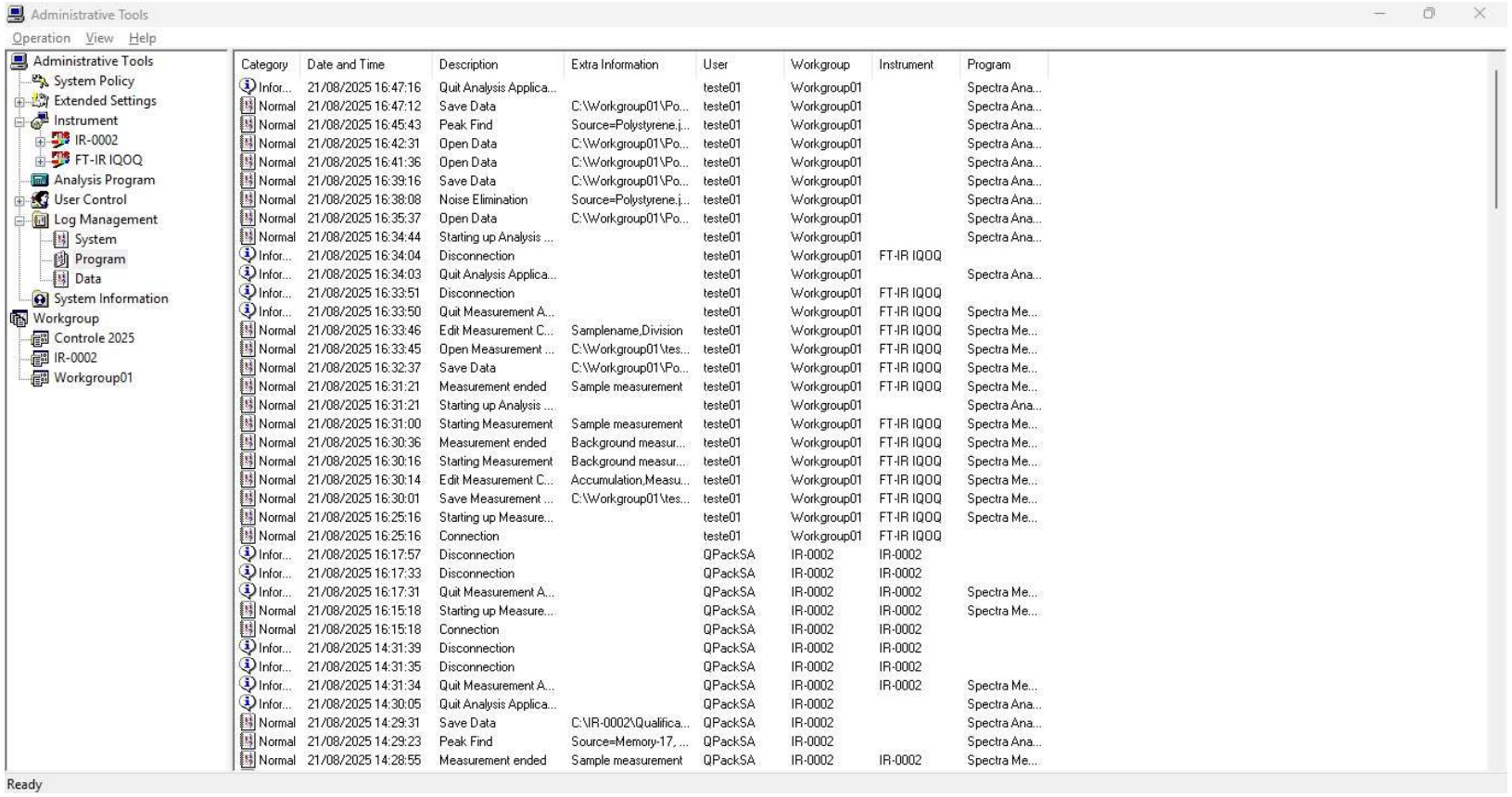


Category	Date and Time	Description	Extra Information	User
Normal	21/08/2025 16:47:44	Logon		QPackSA
Infor...	21/08/2025 16:47:36	Starting up Spectra ...		
Infor...	21/08/2025 16:47:22	Exiting Spectra Man...		
Normal	21/08/2025 16:47:22	Logoff		teste01
Normal	21/08/2025 16:34:41	Logon		teste01
Infor...	21/08/2025 16:34:24	Starting up Spectra ...		
Infor...	21/08/2025 16:34:07	Exiting Spectra Man...		
Normal	21/08/2025 16:34:07	Logoff		teste01
Normal	21/08/2025 16:24:18	Logon		teste01
Infor...	21/08/2025 16:23:11	Starting up Spectra ...		
Infor...	21/08/2025 16:22:44	Exiting Spectra Man...		
Normal	21/08/2025 16:22:44	Logoff		QPackSA
Normal	21/08/2025 16:22:10	Edit Workgroup	Workgroup01 : Add ...	QPackSA
Normal	21/08/2025 16:21:34	Edit Workgroup	Workgroup01	QPackSA
Normal	21/08/2025 16:21:32	Edit Workgroup	Workgroup01 : Add ...	QPackSA
Normal	21/08/2025 16:18:27	Logon		QPackSA
Error	21/08/2025 16:18:22	Logon		QPackSA
Infor...	21/08/2025 16:18:16	Starting up Spectra ...		
Infor...	21/08/2025 16:18:00	Exiting Spectra Man...		
Normal	21/08/2025 16:18:00	Logoff		QPackSA
Normal	21/08/2025 16:15:08	Logon		QPackSA
Error	21/08/2025 16:15:01	Logon		QPackSA
Infor...	21/08/2025 16:14:49	Starting up Spectra ...		
Infor...	21/08/2025 16:14:26	Exiting Spectra Man...		
Normal	21/08/2025 16:14:26	Logoff		teste02
Normal	21/08/2025 16:12:24	Changing Password	teste02	teste02
Normal	21/08/2025 16:11:47	Logon		teste02
Infor...	21/08/2025 16:11:43	Starting up Spectra ...		
Infor...	21/08/2025 16:11:20	Exiting Spectra Man...		
Normal	21/08/2025 16:11:20	Logoff		teste01
Normal	21/08/2025 16:10:29	Edit Workgroup	Workgroup01 : Delet...	teste01
Normal	21/08/2025 16:08:21	Logon		teste01
Infor...	21/08/2025 16:08:17	Starting up Spectra ...		
Infor...	21/08/2025 16:07:42	Exiting Spectra Man...		
Normal	21/08/2025 16:07:42	Logoff		teste03
Normal	21/08/2025 16:05:48	Changing Password	teste03	teste03
Normal	21/08/2025 16:05:10	Logon		teste03

Anexo - 93


Program Log Properties
Filter
Search condition
Date
All events
Certain fixed period
From
21/08/2025
to
21/08/2025
Past
1
months
Past
7
days
Username:
Workgroup:
Instrument:
Measurement program:
Analysis program:
Sort condition
Date
Order
Save log...
OK
Cancelar

Anexo - 94



Category	Date and Time	Description	Extra Information	User	Workgroup	Instrument	Program
Infor...	21/08/2025 16:47:16	Quit Analysis Applica...		teste01	Workgroup01		Spectra Ana...
Normal	21/08/2025 16:47:12	Save Data	C:\Workgroup01\Po...	teste01	Workgroup01		Spectra Ana...
Normal	21/08/2025 16:45:43	Peak Find	Source=Polystyrene,j...	teste01	Workgroup01		Spectra Ana...
Normal	21/08/2025 16:42:31	Open Data	C:\Workgroup01\Po...	teste01	Workgroup01		Spectra Ana...
Normal	21/08/2025 16:41:36	Open Data	C:\Workgroup01\Po...	teste01	Workgroup01		Spectra Ana...
Normal	21/08/2025 16:39:16	Save Data	C:\Workgroup01\Po...	teste01	Workgroup01		Spectra Ana...
Normal	21/08/2025 16:38:08	Noise Elimination	Source=Polystyrene,j...	teste01	Workgroup01		Spectra Ana...
Normal	21/08/2025 16:35:37	Open Data	C:\Workgroup01\Po...	teste01	Workgroup01		Spectra Ana...
Normal	21/08/2025 16:34:44	Starting up Analysis ...		teste01	Workgroup01		Spectra Ana...
Infor...	21/08/2025 16:34:04	Disconnection		teste01	Workgroup01	FT-IR IQOQ	
Infor...	21/08/2025 16:34:03	Quit Analysis Applica...		teste01	Workgroup01		Spectra Ana...
Infor...	21/08/2025 16:33:51	Disconnection		teste01	Workgroup01	FT-IR IQOQ	
Infor...	21/08/2025 16:33:50	Quit Measurement A...		teste01	Workgroup01	FT-IR IQOQ	Spectra Me...
Normal	21/08/2025 16:33:46	Edit Measurement C...	Samplename,Division	teste01	Workgroup01	FT-IR IQOQ	Spectra Me...
Normal	21/08/2025 16:33:45	Open Measurement ...	C:\Workgroup01\tes...	teste01	Workgroup01	FT-IR IQOQ	Spectra Me...
Normal	21/08/2025 16:32:37	Save Data	C:\Workgroup01\Po...	teste01	Workgroup01	FT-IR IQOQ	Spectra Me...
Normal	21/08/2025 16:31:21	Measurement ended	Sample measurement	teste01	Workgroup01	FT-IR IQOQ	Spectra Me...
Normal	21/08/2025 16:31:21	Starting up Analysis ...		teste01	Workgroup01		Spectra Ana...
Normal	21/08/2025 16:31:00	Starting Measurement	Sample measurement	teste01	Workgroup01	FT-IR IQOQ	Spectra Me...
Normal	21/08/2025 16:30:36	Measurement ended	Background measur...	teste01	Workgroup01	FT-IR IQOQ	Spectra Me...
Normal	21/08/2025 16:30:16	Starting Measurement	Background measur...	teste01	Workgroup01	FT-IR IQOQ	Spectra Me...
Normal	21/08/2025 16:30:14	Edit Measurement C...	Accumulation,Measu...	teste01	Workgroup01	FT-IR IQOQ	Spectra Me...
Normal	21/08/2025 16:30:01	Save Measurement ...	C:\Workgroup01\tes...	teste01	Workgroup01	FT-IR IQOQ	Spectra Me...
Normal	21/08/2025 16:25:16	Starting up Measure...		teste01	Workgroup01	FT-IR IQOQ	Spectra Me...
Normal	21/08/2025 16:25:16	Connection		teste01	Workgroup01	FT-IR IQOQ	
Infor...	21/08/2025 16:17:57	Disconnection		QPackSA	IR-0002	IR-0002	
Infor...	21/08/2025 16:17:33	Disconnection		QPackSA	IR-0002	IR-0002	
Infor...	21/08/2025 16:17:31	Quit Measurement A...		QPackSA	IR-0002	IR-0002	Spectra Me...
Normal	21/08/2025 16:15:18	Starting up Measure...		QPackSA	IR-0002	IR-0002	Spectra Me...
Normal	21/08/2025 16:15:18	Connection		QPackSA	IR-0002	IR-0002	
Infor...	21/08/2025 14:31:39	Disconnection		QPackSA	IR-0002	IR-0002	
Infor...	21/08/2025 14:31:35	Disconnection		QPackSA	IR-0002	IR-0002	
Infor...	21/08/2025 14:31:34	Quit Measurement A...		QPackSA	IR-0002	IR-0002	Spectra Me...
Infor...	21/08/2025 14:30:05	Quit Analysis Applica...		QPackSA	IR-0002		Spectra Ana...
Normal	21/08/2025 14:29:31	Save Data	C:\IR-0002\Qualifica...	QPackSA	IR-0002		Spectra Ana...
Normal	21/08/2025 14:29:23	Peak Find	Source=Memory-17, ...	QPackSA	IR-0002		Spectra Ana...
Normal	21/08/2025 14:28:55	Measurement ended	Sample measurement	QPackSA	IR-0002	IR-0002	Spectra Me...