

G4285B

Self Test

Passed

DECAH00393
B.07.23[0009]
DAD

The DAD self-test runs a series of individual tests, and evaluates the results automatically.

Started at 06.12.2024 15:19:50 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.20.543 - Advanced

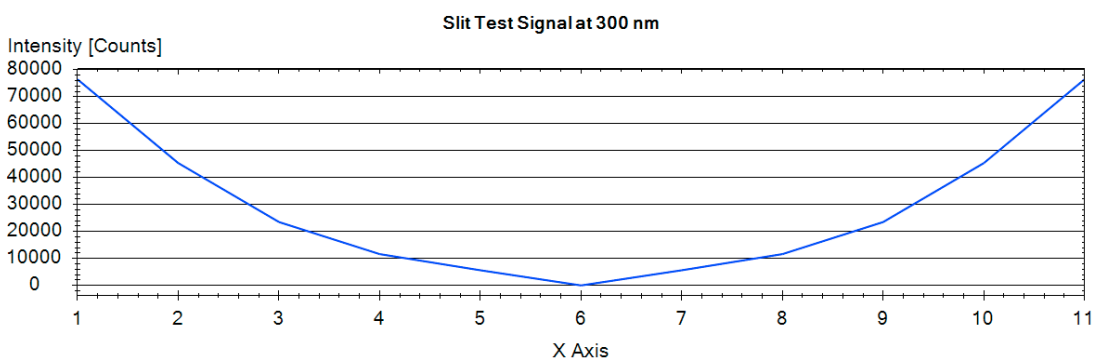
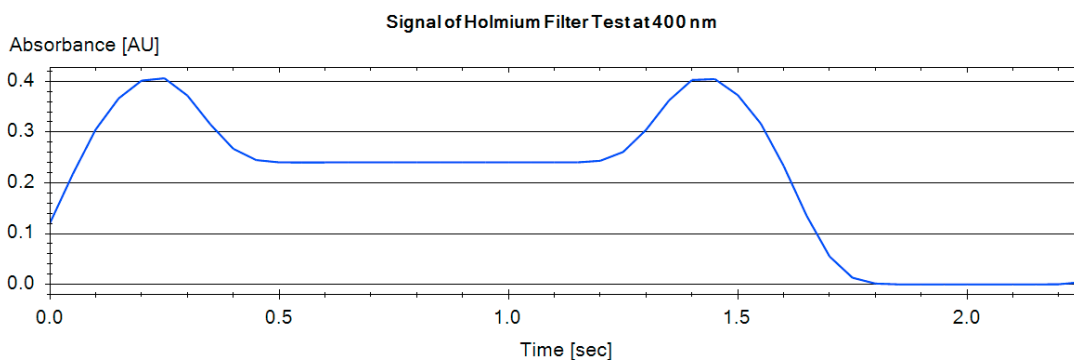
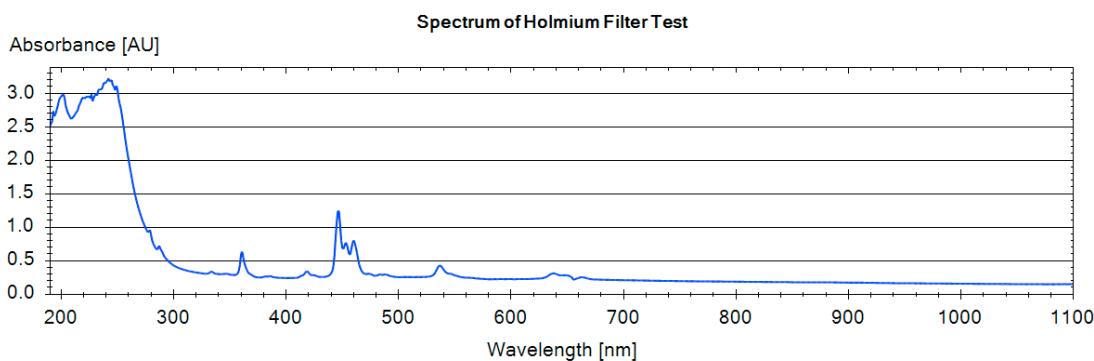
Results

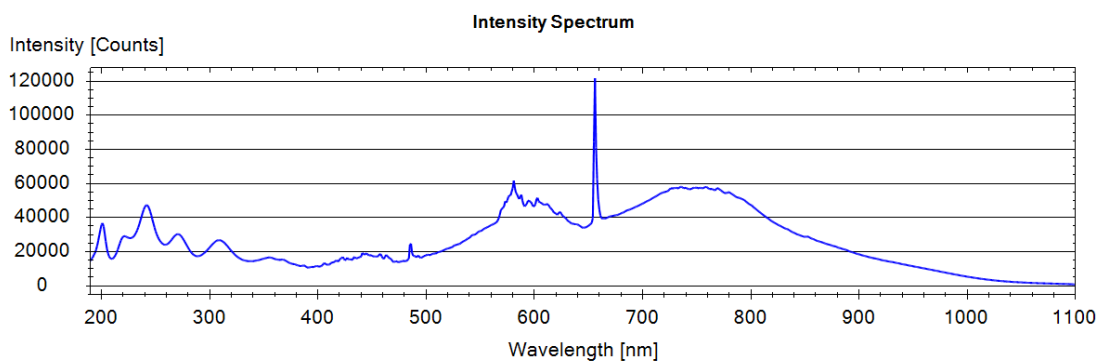
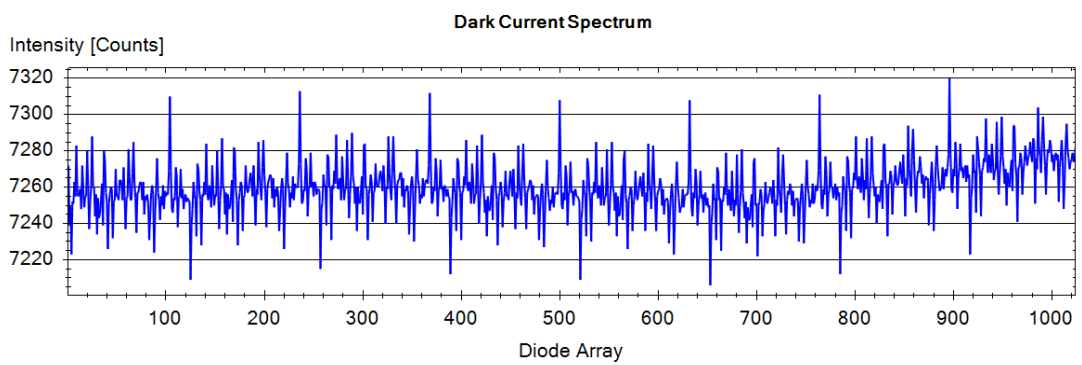
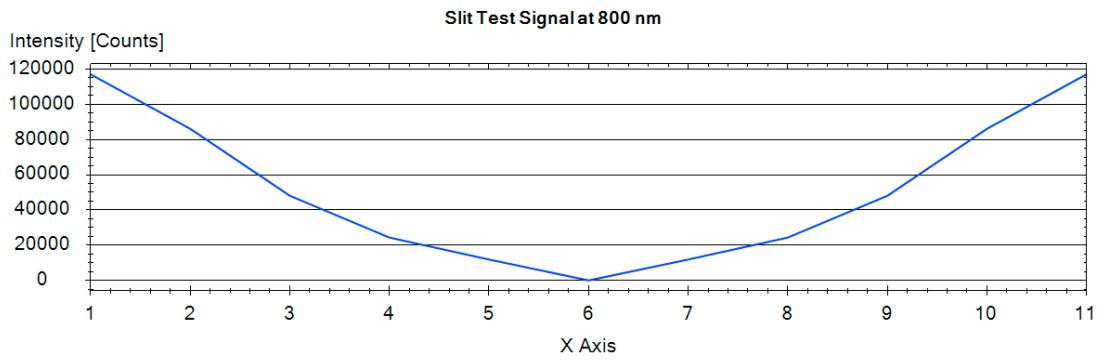
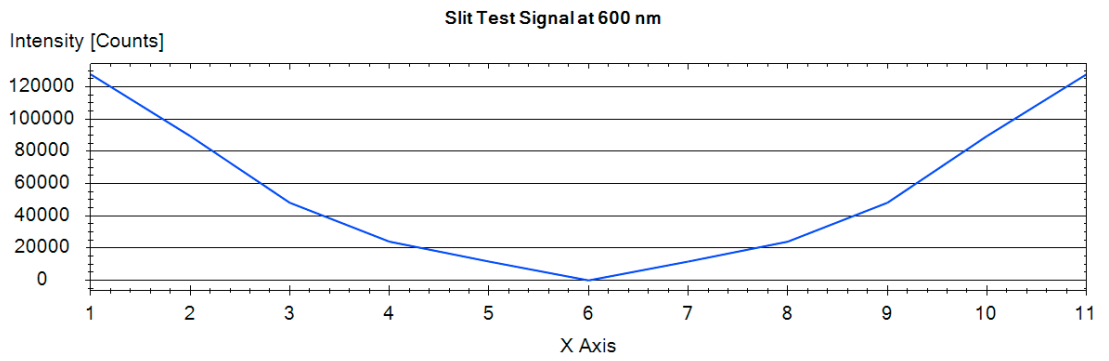
Item	Value	Result
Accumulated UV Lamp On-Time	0,88 h	Done
UV Lamp On-Time	0,88 h	
<i>Minimum Lamp On-Time</i>	<i>0,17 h</i>	Passed
Accumulated Vis Lamp On-Time	75,40 h	Done
Vis Lamp On-Time	0,92 h	
<i>Minimum Lamp On-Time</i>	<i>0,17 h</i>	Passed
Holmium Filter Absorbance at 400 nm	0,24 AU	
<i>Filter Test Limit</i>	<i>0,005 ... 0,5 AU</i>	Passed
Slit Test Result	0,95	
<i>Slit Test Limit</i>	<i>0,7 ... 1,3</i>	Passed
Dark Current Minimum	7206 Counts	
<i>Dark Current Range</i>	<i>1 ... 12000 Counts</i>	Passed
Dark Current Maximum	7320 Counts	
<i>Dark Current Range</i>	<i>1 ... 12000 Counts</i>	Passed
Lowest Intensity in Range 190 - 220 nm	14612 Counts	
<i>Lowest Intensity in Range 190 - 220 nm</i>	<i>2000 ... 65000 Counts</i>	Passed
Lowest Intensity in Range 221 - 350 nm	14396 Counts	
<i>Lowest Intensity in Range 221 - 350 nm</i>	<i>5000 ... 65000 Counts</i>	Passed
Lowest Intensity in Range 351 - 500 nm	10652 Counts	
<i>Lowest Intensity in Range 351 - 500 nm</i>	<i>2000 ... 65000 Counts</i>	Passed
Lowest Intensity in Range 501 - 950 nm	11449 Counts	
<i>Lowest Intensity in Range 501 - 950 nm</i>	<i>4000 ... 65000 Counts</i>	Passed
D2 Alpha Line Deviation	0,051 nm	
<i>WL Calibration Limit for Alpha Line</i>	<i>-0,5 ... 0,5 nm</i>	Passed
D2 Beta Line Deviation	0,044 nm	
<i>WL Calibration Limit for Beta Line</i>	<i>-0,5 ... 0,5 nm</i>	Passed
D2 Alpha Line	656,151 nm	Done
D2 Beta Line	486,044 nm	Done
Holmium Deviation to 361.0 nm	-0,37 nm	
<i>Holmium Deviation Limit</i>	<i>-1 ... 1 nm</i>	Passed
Holmium Deviation to 418.9 nm	-0,37 nm	
<i>Holmium Deviation Limit</i>	<i>-1 ... 1 nm</i>	Passed

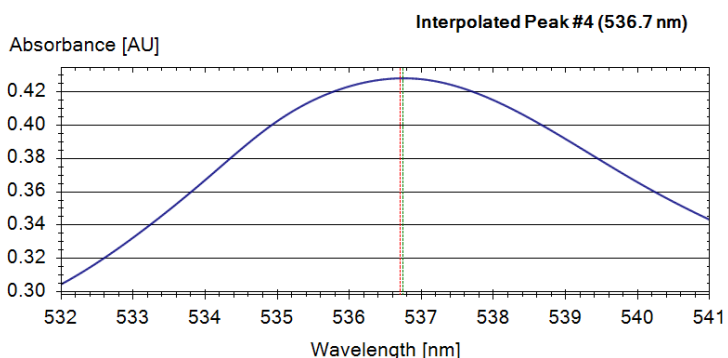
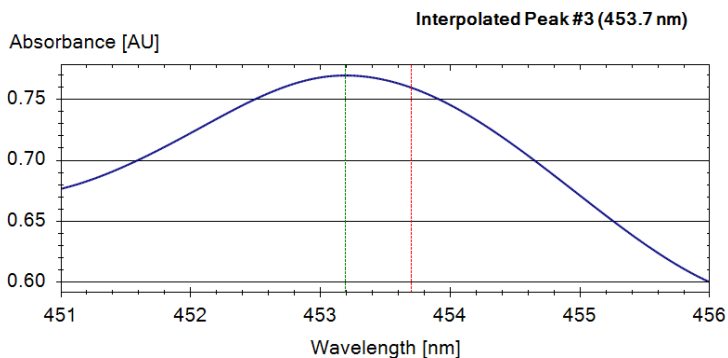
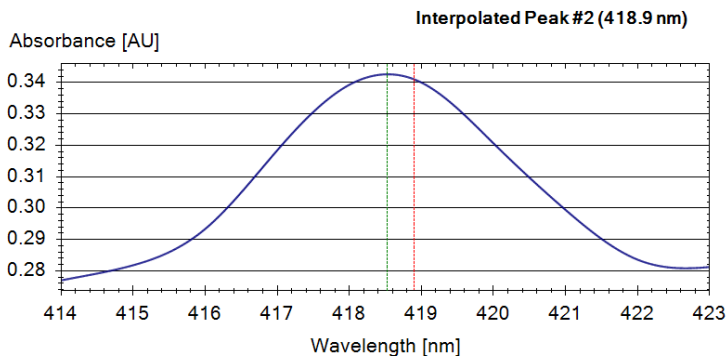
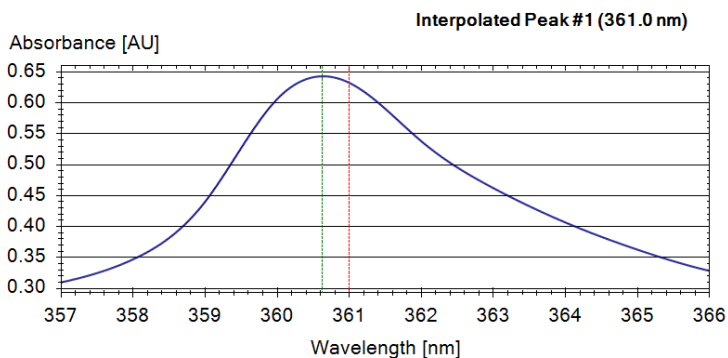
Item	Value	Result
Holmium Deviation to 453.7 nm	-0,51 nm	
<i>Holmium Deviation Limit</i>	<i>-1 ... 1 nm</i>	Passed
Holmium Deviation to 536.7 nm	0,05 nm	
<i>Holmium Deviation Limit</i>	<i>-1 ... 1 nm</i>	Passed
Spectral Flatness	0,0002 AU	
<i>Spectral Flatness Test Limit</i>	<i>0,002 AU</i>	Passed
Signal Noise value at 254 nm (UV)	0,012 mAU	
<i>Maximum Allowed Noise</i>	<i>0,02 mAU</i>	Passed

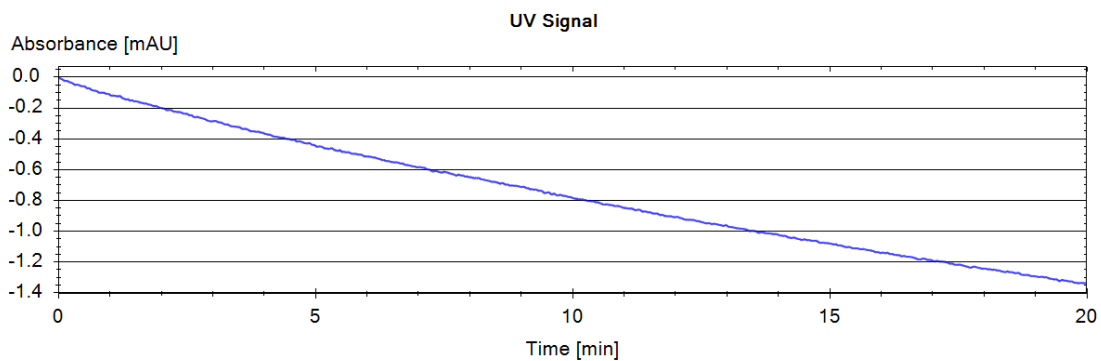
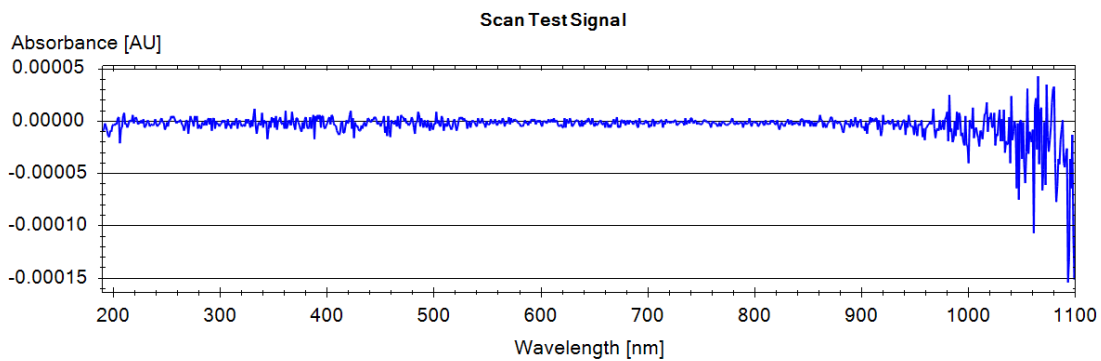
Finished at 06.12.2024 15:42:05

Signals









Signature:

G4285B

Dark Current Test

Passed

DECAH00393
B.07.23[0009]
DAD

The test measures the dark current from the detector optic.

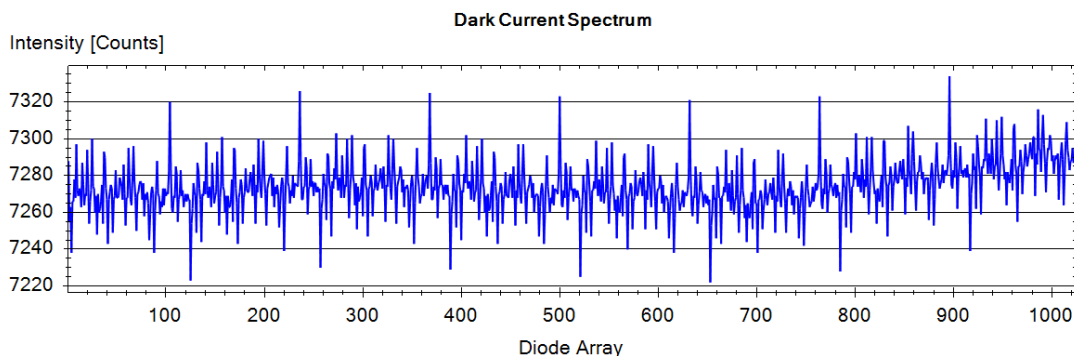
Started at 06.12.2024 17:31:29 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.20.543 - Advanced

Results

Item	Value	Result
Dark Current Minimum	7222 Counts	
<i>Dark Current Range</i>	1 ... 12000 Counts	Passed
Dark Current Average	7274 Counts	Done
Dark Current Maximum	7334 Counts	
<i>Dark Current Range</i>	1 ... 12000 Counts	Passed

Finished at 06.12.2024 17:31:44

Signals



Signature:

G4285B

Filter Test

Passed

DECAH00393
B.07.23[0009]
DAD

The test moves the filter into the light path and measures the relative absorbance in the filter position.

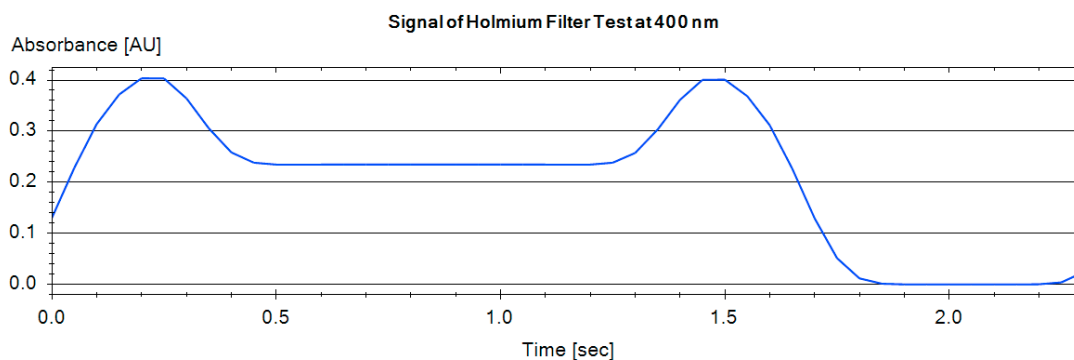
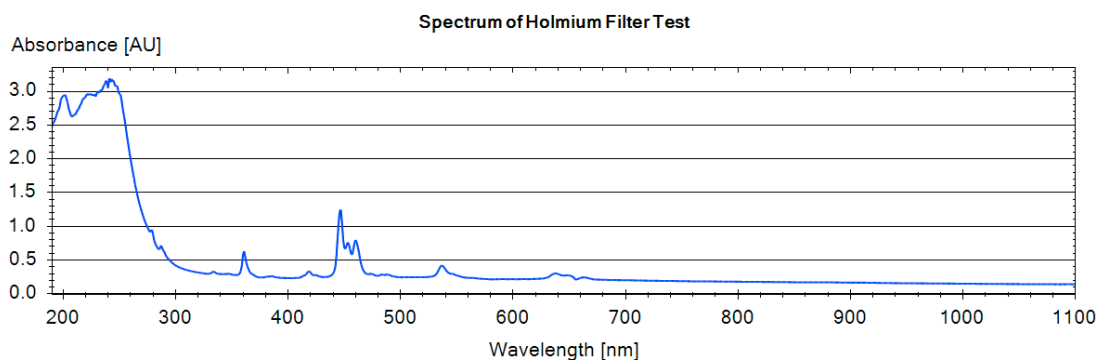
Started at 06.12.2024 17:33:04 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.20.543 - Advanced

Results

Item	Value	Result
Holmium Filter Absorbance at 400 nm	0,23 AU	
<i>Filter Test Limit</i>	<i>0,005 ... 0,5 AU</i>	Passed

Finished at 06.12.2024 17:33:33

Signals



Signature:

G4285B

Holmium Oxide Test

Passed

DECAH00393
B.07.23[0009]
DAD

The test measures the Holmium spectrum from the built-in Holmium filter. The spectrum is evaluated for peaks at different wavelengths.

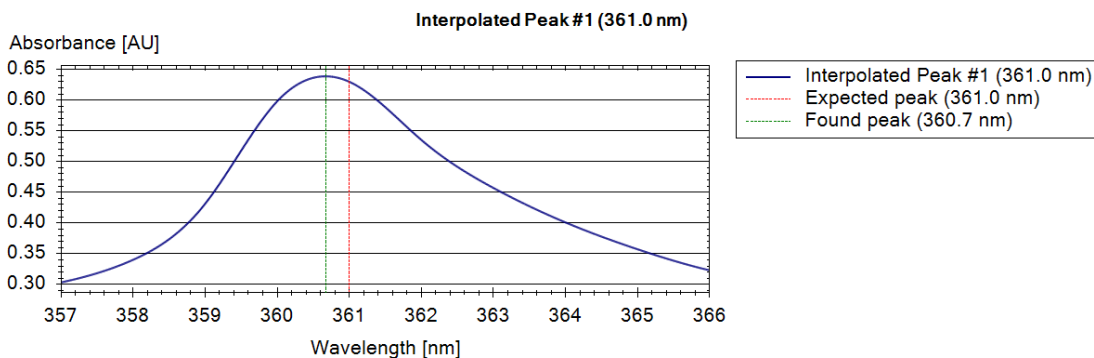
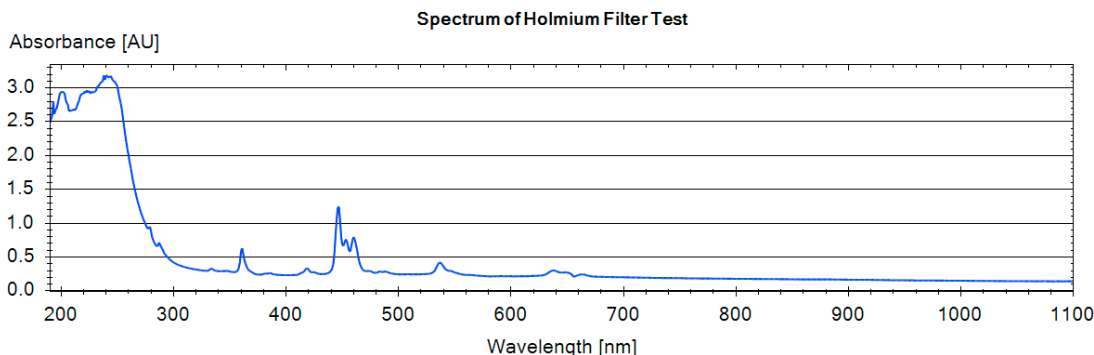
Started at 06.12.2024 17:35:13 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.20.543 - Advanced

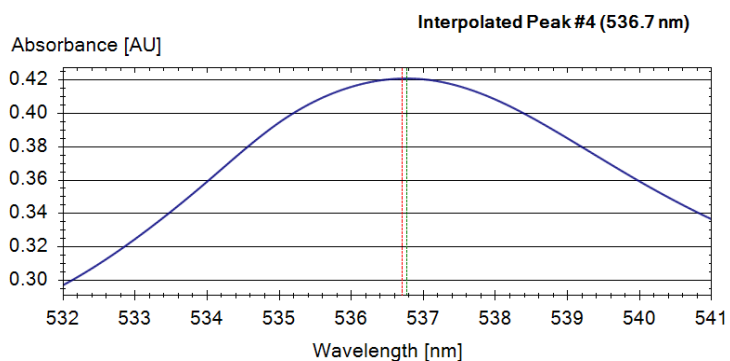
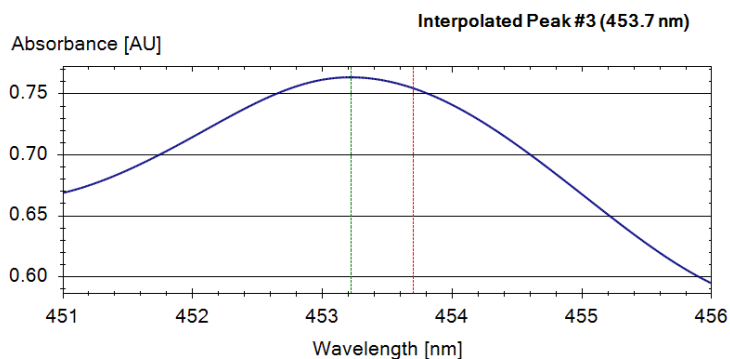
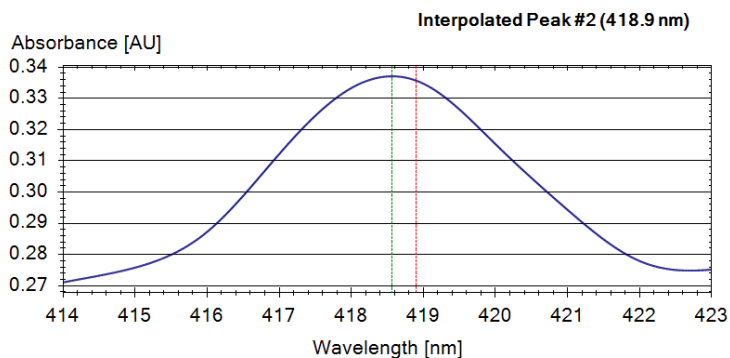
Results

Item	Value	Result
Accumulated UV Lamp On-Time	3,13 h	Done
UV Lamp On-Time	3,13 h	Done
Accumulated Vis Lamp On-Time	77,65 h	Done
Vis Lamp On-Time	3,17 h	Done
Holmium Deviation to 361.0 nm	-0,33 nm	
<i>Holmium Deviation Limit</i>	-1 ... 1 nm	Passed
Holmium Deviation to 418.9 nm	-0,33 nm	
<i>Holmium Deviation Limit</i>	-1 ... 1 nm	Passed
Holmium Deviation to 453.7 nm	-0,48 nm	
<i>Holmium Deviation Limit</i>	-1 ... 1 nm	Passed
Holmium Deviation to 536.7 nm	0,07 nm	
<i>Holmium Deviation Limit</i>	-1 ... 1 nm	Passed

Finished at 06.12.2024 17:35:42

Signals





Signature:

G4285B

Intensity Test

Passed

DECAH00393
B.07.23[0009]
DAD

The test scans the Intensity spectrum generated by the UV and VIS Lamp.

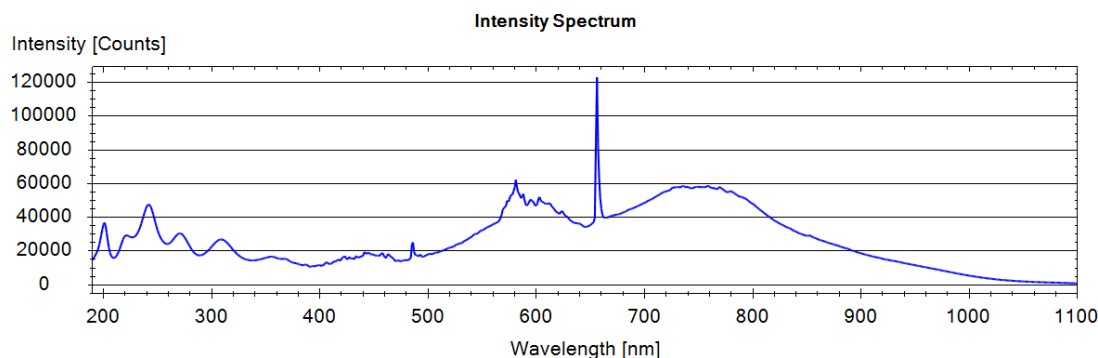
Started at 06.12.2024 17:43:21 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.20.543 - Advanced

Results

Item	Value	Result
Accumulated UV Lamp On-Time	3,27 h	Done
UV Lamp On-Time	3,27 h	Done
Accumulated Vis Lamp On-Time	77,79 h	Done
Vis Lamp On-Time	3,31 h	Done
Lowest Intensity in Range 190 - 220 nm	14687 Counts	
<i>Lowest Intensity in Range 190 - 220 nm</i>	2000 Counts	Passed
Lowest Intensity in Range 221 - 350 nm	14490 Counts	
<i>Lowest Intensity in Range 221 - 350 nm</i>	5000 Counts	Passed
Lowest Intensity in Range 351 - 500 nm	10733 Counts	
<i>Lowest Intensity in Range 351 - 500 nm</i>	2000 Counts	Passed
Lowest Intensity in Range 501 - 950 nm	11634 Counts	
<i>Lowest Intensity in Range 501 - 950 nm</i>	2000 Counts	Passed
Spectrum Integral	24143532	Done
UV Integral (190 - 349 nm)	3950005	Done

Finished at 06.12.2024 17:43:44

Signals



Signature:

G4285B

Quick Noise Test

Passed

DECAH00393
B.07.23[0009]
DAD

The test performs a quick noise evaluation at 254 and 750 nm without reference.

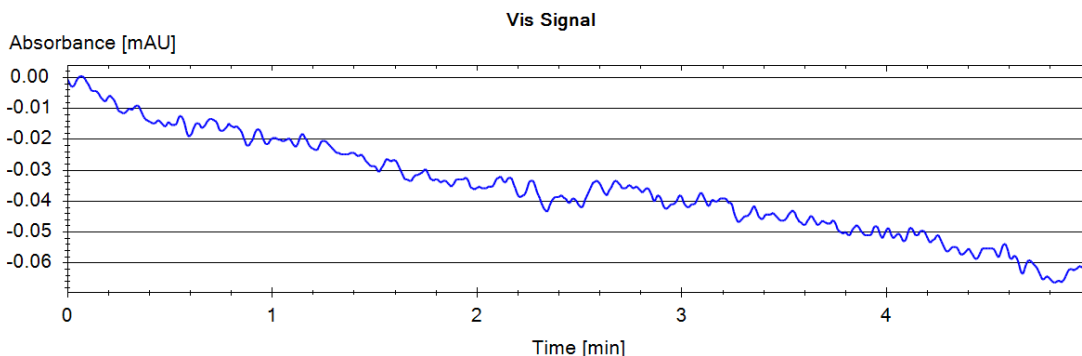
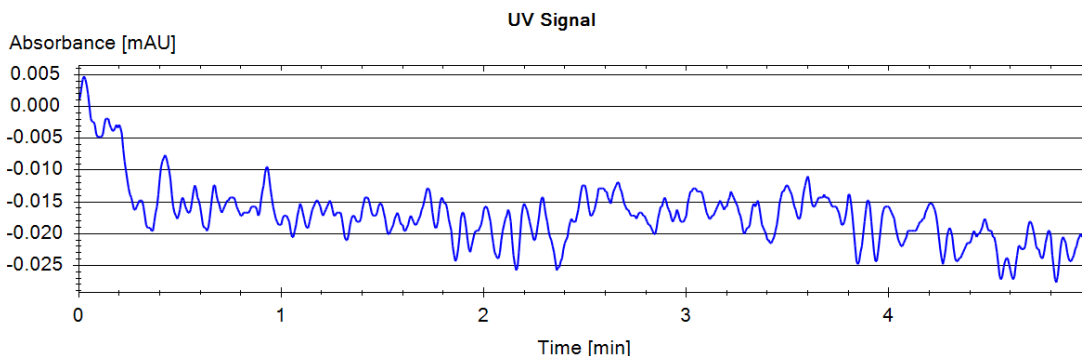
Started at 06.12.2024 17:44:22 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.20.543 - Advanced

Results

Item	Value	Result
Accumulated UV Lamp On-Time	3,28 h	Done
UV Lamp On-Time	3,28 h	
<i>Minimum Lamp On-Time</i>	0,17 h	Passed
Accumulated Vis Lamp On-Time	77,80 h	Done
Vis Lamp On-Time	3,32 h	
<i>Minimum Lamp On-Time</i>	0,17 h	Passed
Signal Noise value at 254 nm (UV)	0,014 mAU	
<i>Maximum Allowed Noise</i>	0 ... 0,02 mAU	Passed
Signal Noise value at 750 nm (Vis)	0,009 mAU	
<i>Maximum Allowed Noise</i>	0 ... 0,02 mAU	Passed

Finished at 06.12.2024 17:49:39

Signals



Signature:

G4285B

Slit Test

Passed

DECAH00393
B.07.23[0009]
DAD

The slit test verifies correct operation of the micromechanical slit.

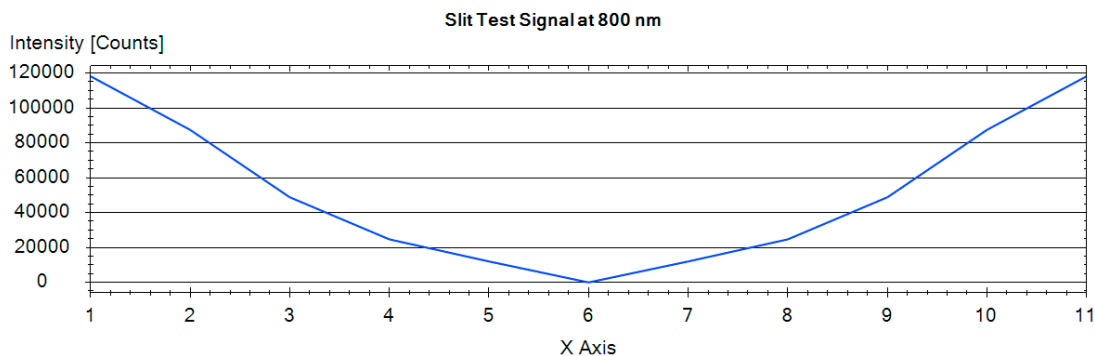
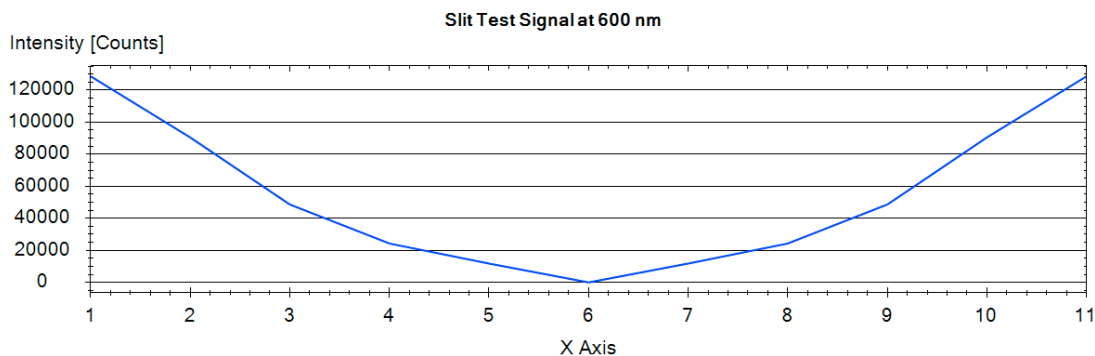
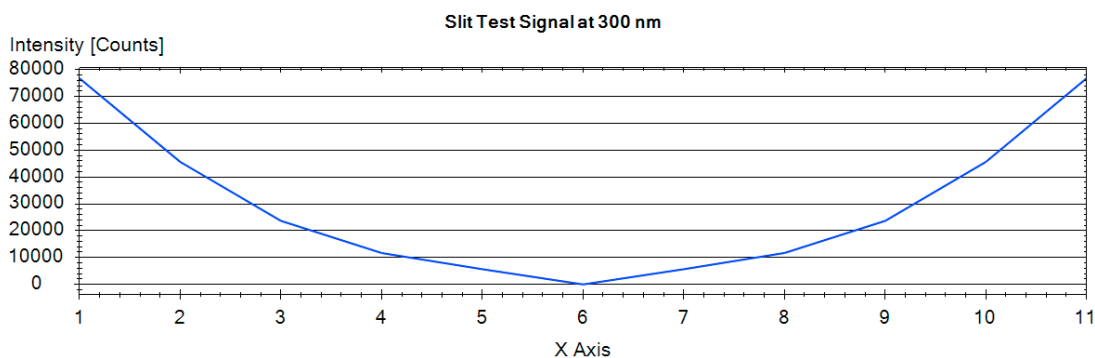
Started at 06.12.2024 17:50:08 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.20.543 - Advanced

Results

Item	Value	Result
Slit Test Result	0,95	
Slit Test Limit	0,7 ... 1,3	Passed

Finished at 06.12.2024 17:50:37

Signals



Signature:

G4285B

Wavelength Verification Test

Passed

DECAH00393
B.07.23[0009]
DAD

This procedure performs a wavelength verification.

Started at 06.12.2024 17:51:11 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.20.543 - Advanced

Results

Item	Value	Result
Accumulated UV Lamp On-Time	3,40 h	Done
UV Lamp On-Time	3,40 h	
<i>Minimum Lamp On-Time</i>	<i>0,17 h</i>	Passed
D2 Alpha Line Deviation	0,066 nm	
<i>WL Calibration Limit for Alpha Line</i>	<i>-0,5 ... 0,5 nm</i>	Passed
D2 Beta Line Deviation	0,057 nm	
<i>WL Calibration Limit for Beta Line</i>	<i>-0,5 ... 0,5 nm</i>	Passed

Finished at 06.12.2024 17:51:33

Signature:

G4285B

ASTM Drift and Noise Test

Passed

DECAH00393
B.07.23[0009]
DAD

The test performs ASTM drift and noise evaluation without reference.

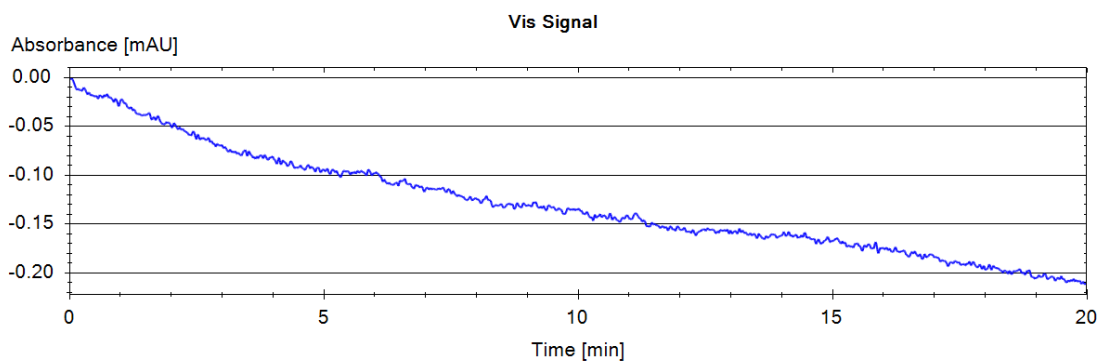
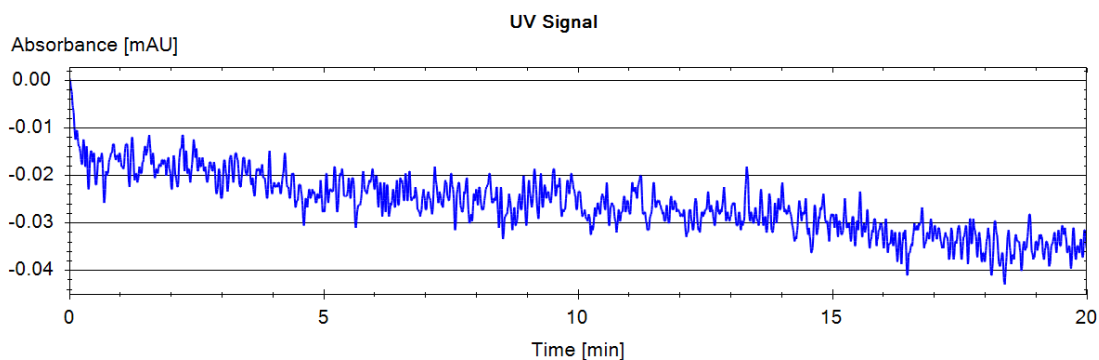
Started at 06.12.2024 17:52:01 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.20.543 - Advanced

Results

Item	Value	Result
Accumulated UV Lamp On-Time	3,41 h	Done
UV Lamp On-Time	3,41 h	
<i>Minimum Lamp On-Time</i>	1 h	Passed
Accumulated Vis Lamp On-Time	77,93 h	Done
Vis Lamp On-Time	3,45 h	
<i>Minimum Lamp On-Time</i>	1 h	Passed
Signal Drift value at 254 nm (UV)	-0,057 mAU/h	
<i>Maximum Allowed Drift</i>	-1 ... 1 mAU/h	Passed
Signal Noise value at 254 nm (UV)	0,012 mAU	
<i>Maximum Allowed Noise</i>	0 ... 0,02 mAU	Passed
Signal Drift value at 750 nm (Vis)	-0,530 mAU/h	
<i>Maximum Allowed Drift</i>	-1 ... 1 mAU/h	Passed
Signal Noise value at 750 nm (Vis)	0,009 mAU	
<i>Maximum Allowed Noise</i>	0 ... 0,02 mAU	Passed

Finished at 06.12.2024 18:12:19

Signals



Signature:

G4285B

Module Info

Done

DECAH00393
B.07.23[0009]
DAD

Collect diagnostic info from a LC or CE module and write to the result file.

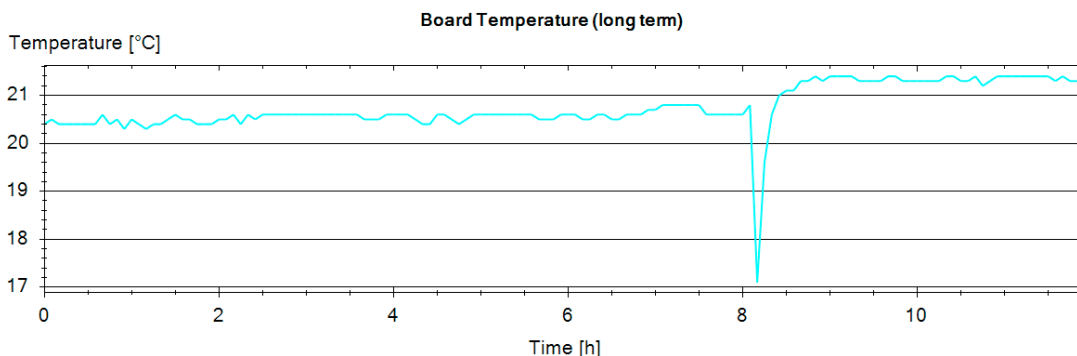
Started at 06.12.2024 18:13:08 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.20.543 - Advanced

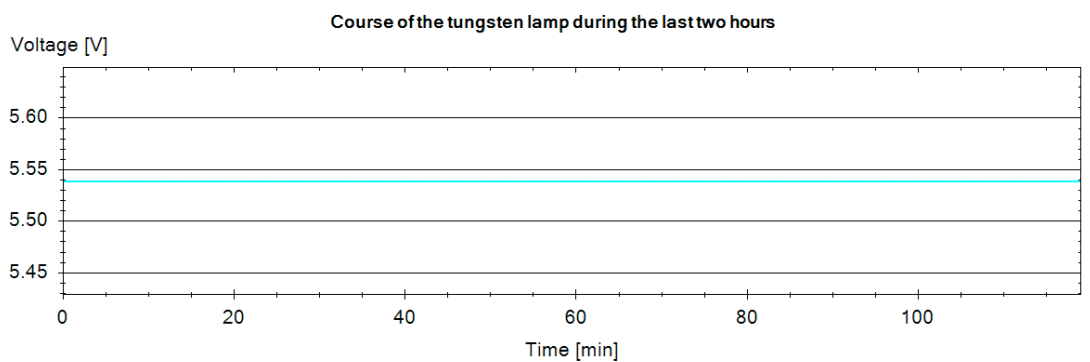
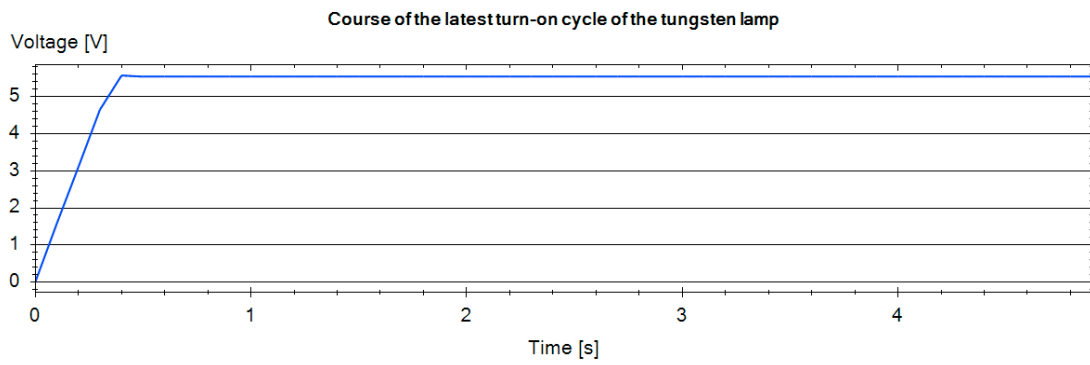
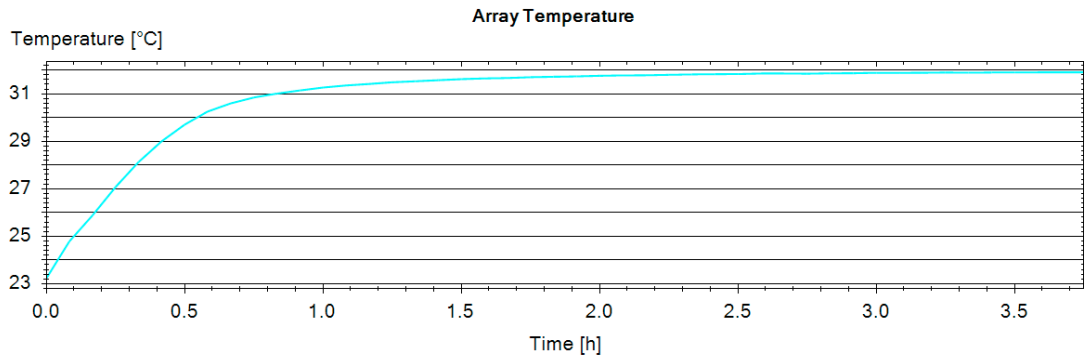
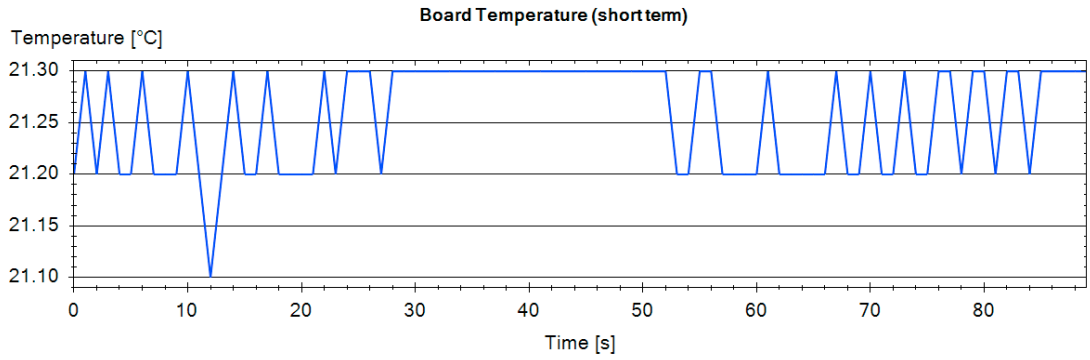
Results

Item	Value	Result
Firmware Main System Revision	B.07.23	Done
Firmware Main System Revision Build Number	[0009]	Done
Firmware Resident System Revision	B.07.23	Done
Hardware Main Board Details	TYPE=G1315-65863, REV=FG, SER=MAC	Done
System Date and Time	Firmware Clock: 06.12.2024 18:13:18, Controller Clock: 06.12.2024 18:13:09	Done
Product Options	DAD	Done
Device Detail #1	No Flow Cell Info	Done
Device Detail #2	No UV Lamp Info	Done
Device Detail #3	UV Lamp Type (2140-0820 Lamp compatible - without continuous lamp heating)	Done
Device Detail #4	LAN Settings (IP: 192.168.254.11, SM: 255.255.255.0, GW: not specified, MAC: 0030D32BE71F, Init Mode: Using Default)	Done
Device Detail #5	Current LAN Controller: 192.168.254.80 'fibreStore-8570P'	Done
Device Detail #6	Current Instrument Access Point	Done

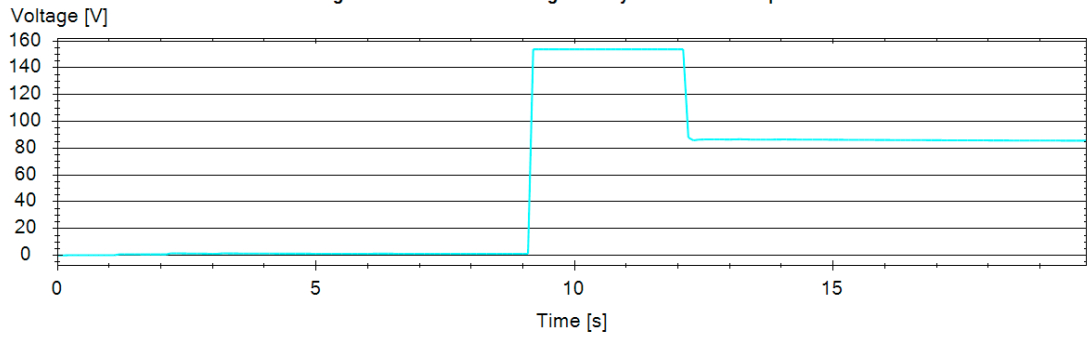
Finished at 06.12.2024 18:13:17

Signals

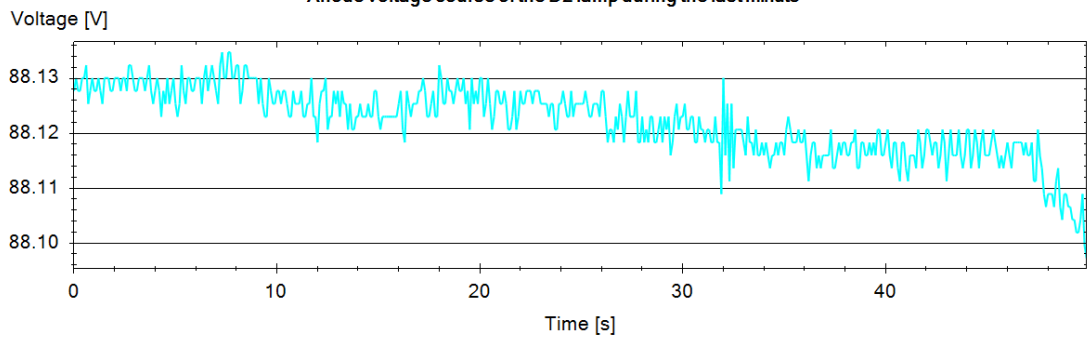




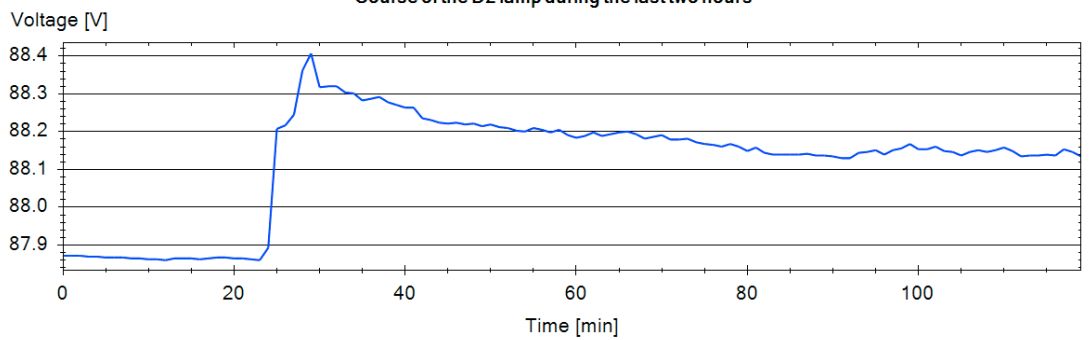
Ignition course of the last ignition cycle of the D2 lamp



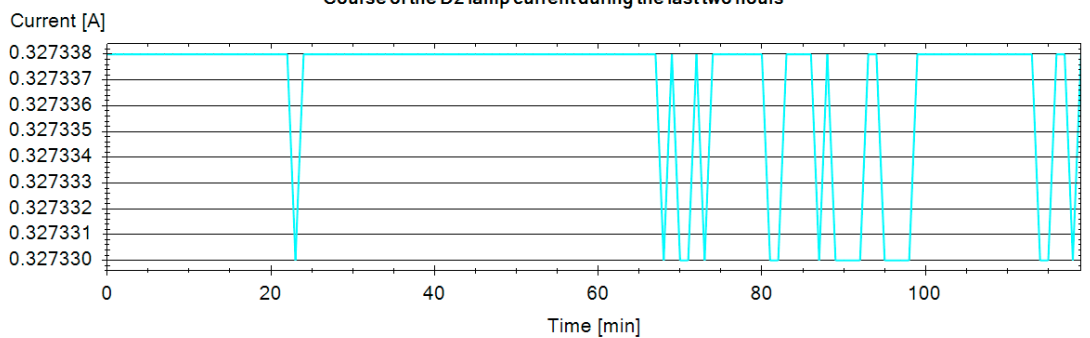
Anode voltage course of the D2 lamp during the last minute



Course of the D2 lamp during the last two hours



Course of the D2 lamp current during the last two hours



Tables

Error History

Date	Error Number	Error Parameter	Error description
05/16/2024 14:12:45	63	0	Shutdown
05/16/2024 14:08:21	63	0	Shutdown
01/13/2020 09:25:53	63	0	Shutdown
01/08/2020 16:20:02	63	0	Shutdown
01/08/2020 16:09:38	63	0	Shutdown
01/08/2020 15:57:00	63	0	Shutdown
01/08/2020 15:24:38	63	0	Shutdown

Firmware Revision

Date	Revision
09/17/2018 09:24:28	B.07.23 [0009]
10/12/2016 13:17:40	B.06.80 [0006]
12/13/2014 01:43:02	B.06.72 [0002]
10/20/2014 09:58:13	B.06.60 [0005]
01/01/1970 00:00:09	B.06.53 [013]

WL Calibration History

Date	Deviation of D2-alpha line (in nm)	Deviation of D2- beta line (in nm)
12/04/2024 17:10:13	-0.984	-0.849
11/25/2019 10:20:47	-0.699	-0.603
09/27/2019 13:00:13	-0.696	-0.6
06/27/2019 12:38:57	-0.636	-0.549
02/16/2018 15:26:58	-0.553	-0.477
10/12/2016 13:50:55	-0.415	-0.358
10/12/2016 13:43:15	-0.42	-0.362
10/12/2016 13:42:20	-0.421	-0.363
10/20/2014 11:10:14	-0.249	-0.214

Signature:

Contact Information

Name fibreStore
 Phone +496419805945
 Email info@fibrestore.de
 Company
 Comments

Software Information

Lab Advisor Version 2.20.543
 Installed Lab Advisor Add-ons Agilent LC/CE 1.0.8529.1214
 3

System Configuration

Instrument Name	Type	Address	Data last updated on
Default IP	Compact LC	192.168.254.11	06.12.2024 17:51:19

	Firmware	Status	Details
G4281B DECAH00393 GradPump	B.07.23 [0009]	Not Ready	- Integral Type: G4294B - Degasser
G4282B DECAH00393 ALS	B.07.23 [0009]	Not Ready	- Integral Type: G4294B - Tray (100 x 2 ml) - Metering Parameter (Loop Size 100 µl, Seat Capillary 2,3 µl) - LAN Settings (IP: 0.0.0.0, SM: not specified, GW: not specified, MAC: 0030D32BB70A, Init Mode: Bootp)
G4283A DECAH00393 Oven	B.07.23 [0009]	Not Ready	- Integral Type: G4294B
G4285B DECAH00393 DAD	B.07.23 [0009]	Not Ready	- No Flow Cell Info - No UV Lamp Info - LAN Settings (IP: 192.168.254.11, SM: 255.255.255.0, GW: not specified, MAC: 0030D32BE71F, Init Mode: Using Default) - Current LAN Controller: 192.168.254.80 'fibreStore-8570P' - Current Instrument Access Point
G4208A DE61855549 1200 Instant Pilot	B.02.25 [0001]	Idle	

Test and Calibration Procedure Results

	Description	Date
G4285B	Module Info - Done	06.12.2024 18:13:17
DECAH00393	ASTM Drift and Noise Test - Passed	06.12.2024 17:52:10
DAD	Wavelength Verification Test - Passed	06.12.2024 17:51:20
	Slit Test - Passed	06.12.2024 17:50:17
	Quick Noise Test - Passed	06.12.2024 17:44:31
	Intensity Test - Passed	06.12.2024 17:43:30
	Holmium Oxide Test - Passed	06.12.2024 17:35:22
	Filter Test - Passed	06.12.2024 17:33:13
	Dark Current Test - Passed	06.12.2024 17:31:38
	Self Test - Passed	06.12.2024 15:19:59

Associated Logs

	Description	Date
G4281B	Valve failed to switch(EE 2040,111)	07.10.2024 14:19:53
DECAH00393	Valve failed to switch(EE 2040,1)	07.10.2024 14:19:52
GradPump	Valve failed to switch(EE 2040,0)	07.10.2024 14:19:51
	Valve failed to switch(EE 2040,111)	07.10.2024 14:14:59
	Valve failed to switch(EE 2040,1)	07.10.2024 14:14:58
	Valve failed to switch(EE 2040,0)	07.10.2024 14:14:57
	Valve failed to switch(EE 2040,111)	07.10.2024 14:12:59
	Valve failed to switch(EE 2040,1)	07.10.2024 14:12:58
	Valve failed to switch(EE 2040,0)	07.10.2024 14:12:57
	Leak detected(EE 64,0)	16.05.2024 14:12:45
	Pump has been turned off during analysis(EE 2065,0)	16.05.2024 14:08:21
	Leak detected(EE 64,0)	16.05.2024 14:08:21
	Pump has been turned off during analysis(EE 2065,0)	10.01.2022 15:47:19
	Pump has been turned off during analysis(EE 2065,0)	10.01.2022 12:14:52
	Pressure above upper limit(EE 2014,404)	10.01.2022 12:14:52
	B.07.23 [0009]	17.09.2018 09:25:02
	B.06.80 [0006]	12.10.2016 13:18:28
	B.06.72 [0002]	31.12.2014 03:51:33
	B.06.60 [0005]	01.01.1970 00:00:00

	Description	Date
G4282B	Shutdown(EE 63,0)	16.05.2024 14:12:45
DECAH00393	Shutdown(EE 63,0)	16.05.2024 14:08:21
ALS	Missing vial(EE 4019,14)	16.05.2023 22:36:38
	Missing vial(EE 4019,10)	23.02.2023 02:53:03
	Missing vial(EE 4019,96)	24.03.2020 05:02:54
	Missing vial(EE 4019,96)	24.03.2020 05:02:12
	Missing vial(EE 4019,7)	12.02.2020 00:14:31
	Missing vial(EE 4019,1)	20.01.2020 14:24:56
	Shutdown(EE 63,0)	13.01.2020 09:25:53
	Shutdown(EE 63,0)	08.01.2020 16:20:02
	Shutdown(EE 63,0)	08.01.2020 16:09:38
	Shutdown(EE 63,0)	08.01.2020 15:57:00
	Shutdown(EE 63,0)	08.01.2020 15:24:38
	B.07.23 [0009]	17.09.2018 09:25:02
	B.06.80 [0006]	12.10.2016 13:18:28
	B.06.72 [0002]	31.12.2014 03:51:33
	B.06.60 [0005]	01.01.1970 00:00:00

	Description	Date
G4283A	Shutdown(EE 63,0)	16.05.2024 14:12:45
DECAH00393	Shutdown(EE 63,0)	16.05.2024 14:08:21
Oven	Shutdown(EE 63,0)	13.01.2020 09:25:53
	Shutdown(EE 63,0)	08.01.2020 16:20:02
	Shutdown(EE 63,0)	08.01.2020 16:09:38
	Shutdown(EE 63,0)	08.01.2020 15:57:00
	Shutdown(EE 63,0)	08.01.2020 15:24:38
	B.07.23 [0009]	17.09.2018 09:25:02
	B.06.80 [0006]	12.10.2016 13:18:28
	B.06.72 [0002]	31.12.2014 03:51:33
	B.06.60 [0005]	01.01.1970 00:00:00

	Description	Date
G4285B	Shutdown(EE 63,0)	16.05.2024 14:12:45
DECAH00393	Shutdown(EE 63,0)	16.05.2024 14:08:21
DAD	Shutdown(EE 63,0)	13.01.2020 09:25:53
	Shutdown(EE 63,0)	08.01.2020 16:20:02
	Shutdown(EE 63,0)	08.01.2020 16:09:38
	Shutdown(EE 63,0)	08.01.2020 15:57:00
	Shutdown(EE 63,0)	08.01.2020 15:24:38
	B.07.23 [0009]	17.09.2018 09:24:28
	B.06.80 [0006]	12.10.2016 13:17:40
	B.06.72 [0002]	13.12.2014 01:43:02
	B.06.60 [0005]	20.10.2014 09:58:13
	B.06.53 [013]	01.01.1970 00:00:09

Default IP

Early Maintenance Feedback Counters

	Description	Value	Unit	Limit
G4281B	Liquimeter	0.025	L	0
DECAH00393	<i>Last reset: 06.11.2024 12:09:08</i>			
GradPump	Seal Wear	10	None	0
Orig.Type: G4294B	<i>Last reset: 06.11.2024 12:08:48</i>			
	Inlet Valve Switches	355	Count	0
	<i>Last reset: 06.11.2024 12:08:52</i>			
	Outlet Valve Switches	356	Count	0
	<i>Last reset: 06.11.2024 12:08:55</i>			
G4282B	Injection Valve Switches	2	Count	0
DECAH00393	<i>Last reset: 06.11.2024 12:08:58</i>			
ALS	Needle Up-and-Down Counter	2	Count	0
Orig.Type: G4294B	<i>Last reset: 06.11.2024 12:09:01</i>			
G4285B	Accumulated UV Lamp On-Time	0	h	0
DECAH00393	Number of UV Lamp Ignitions	0	Count	0
DAD	Accumulated Tungsten Lamp On-Time	74.48	h	0
	Number of Tungsten Lamp Ignitions	36	Count	0