

G1315D

Self Test

Passed

DE64260895
B.07.23[0009]
DAD

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

Started at 26.05.2021 16:35:09 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.16.414 - Advanced

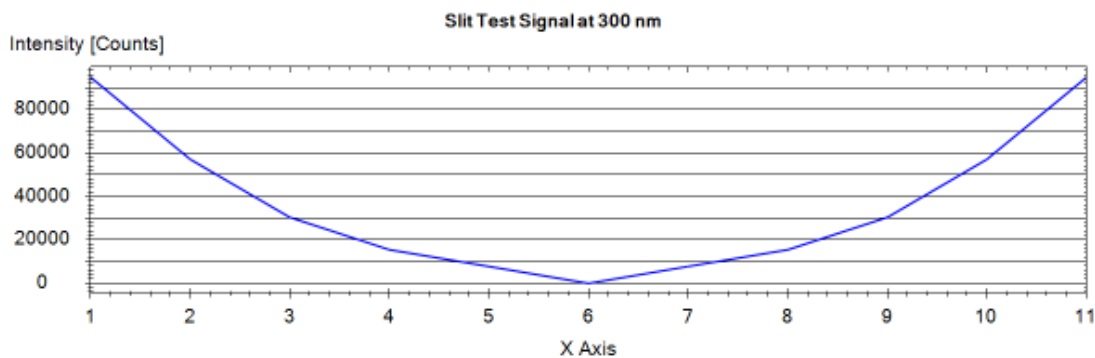
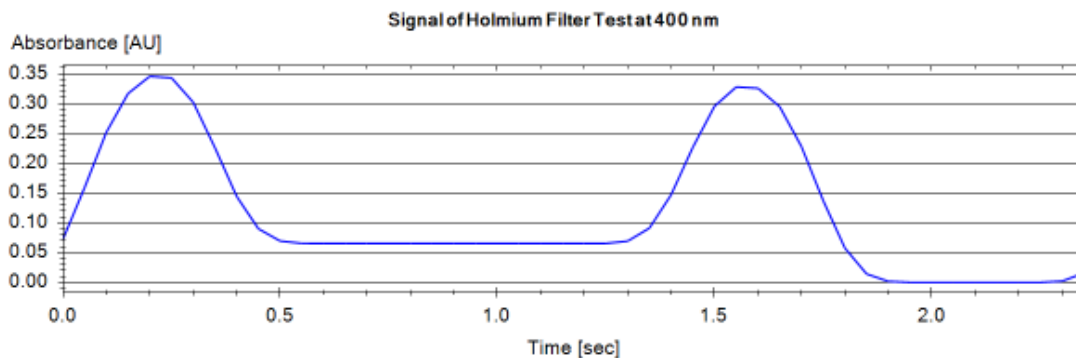
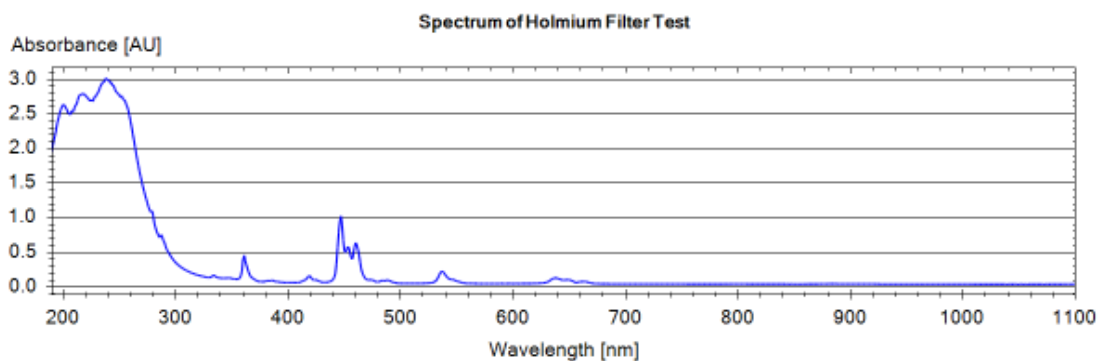
Results

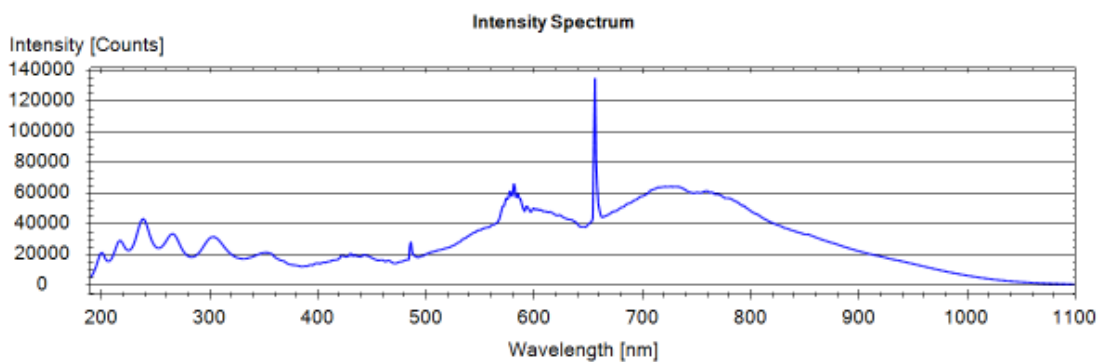
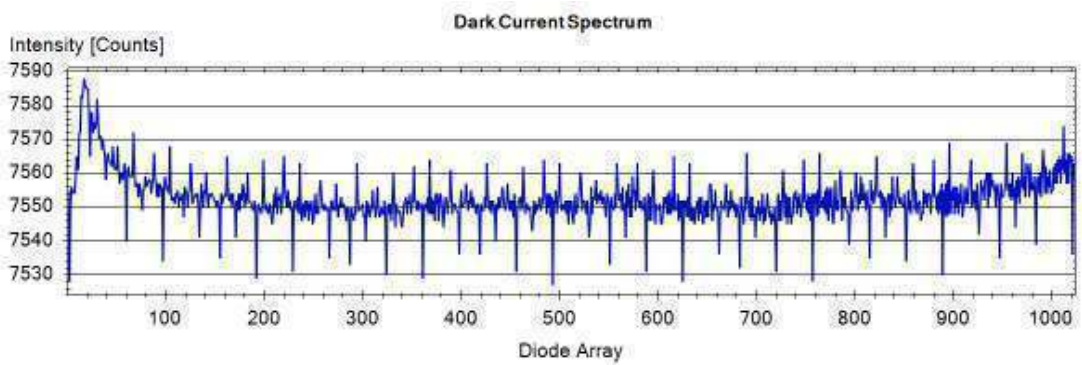
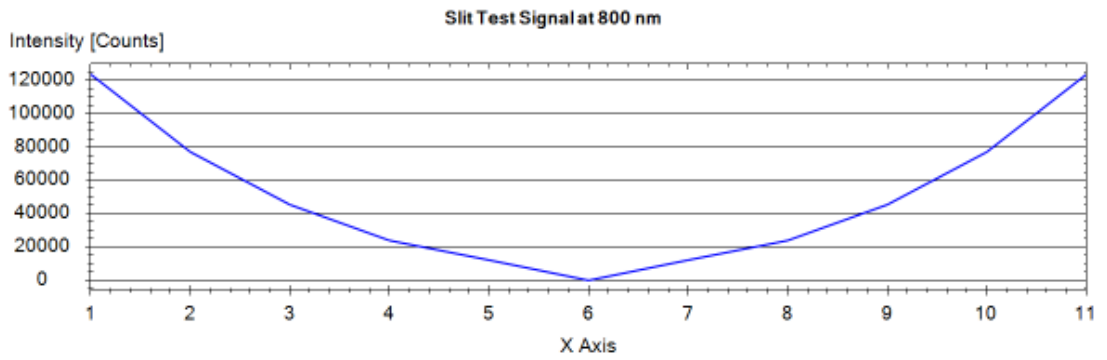
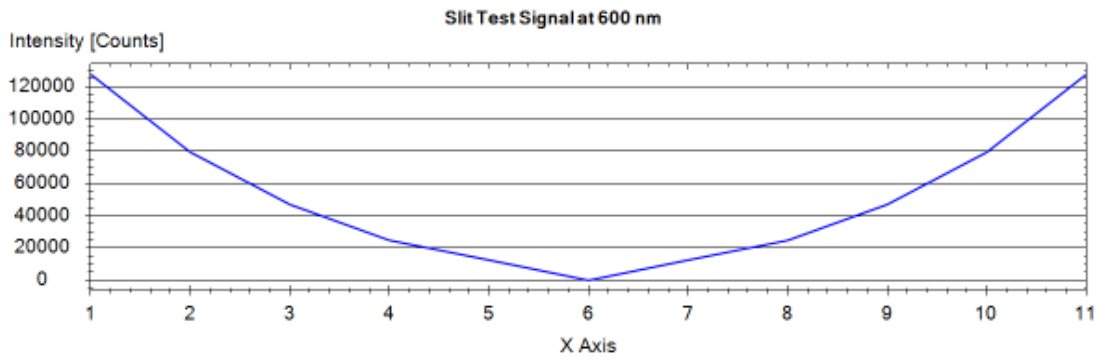
Item	Value	Result
Accumulated UV Lamp On-Time	1,11 h	Done
UV Lamp On-Time	1,11 h	
<i>Minimum Lamp On-Time</i>	0,17 h	Passed
Accumulated Vis Lamp On-Time	5513,39 h	Done
Vis Lamp On-Time	1,13 h	
<i>Minimum Lamp On-Time</i>	0,17 h	Passed
Holmium Filter Absorbance at 400 nm	0,07 AU	
<i>Filter Test Limit</i>	0,005 ... 0,5 AU	Passed
Slit Test Result	1,06	
<i>Slit Test Limit</i>	0,7 ... 1,3	Passed
Dark Current Minimum	7527 Counts	
<i>Dark Current Range</i>	1 ... 12000 Counts	Passed
Dark Current Maximum	7588 Counts	
<i>Dark Current Range</i>	1 ... 12000 Counts	Passed
Lowest Intensity in Range 190 - 220 nm	5422 Counts	
<i>Lowest Intensity in Range 190 - 220 nm</i>	2000 ... 65000 Counts	Passed
Lowest Intensity in Range 221 - 350 nm	17410 Counts	
<i>Lowest Intensity in Range 221 - 350 nm</i>	5000 ... 65000 Counts	Passed
Lowest Intensity in Range 351 - 500 nm	12356 Counts	
<i>Lowest Intensity in Range 351 - 500 nm</i>	2000 ... 65000 Counts	Passed
Lowest Intensity in Range 501 - 950 nm	14101 Counts	
<i>Lowest Intensity in Range 501 - 950 nm</i>	4000 ... 65000 Counts	Passed
D2 Alpha Line Deviation	-0,010 nm	
<i>WL Calibration Limit for Alpha Line</i>	-0,5 ... 0,5 nm	Passed
D2 Beta Line Deviation	-0,002 nm	
<i>WL Calibration Limit for Beta Line</i>	-0,5 ... 0,5 nm	Passed
D2 Alpha Line	656,090 nm	Done
D2 Beta Line	485,998 nm	Done
Holmium Deviation to 361.0 nm	-0,16 nm	
<i>Holmium Deviation Limit</i>	-1 ... 1 nm	Passed
Holmium Deviation to 418.9 nm	-0,10 nm	
<i>Holmium Deviation Limit</i>	-1 ... 1 nm	Passed

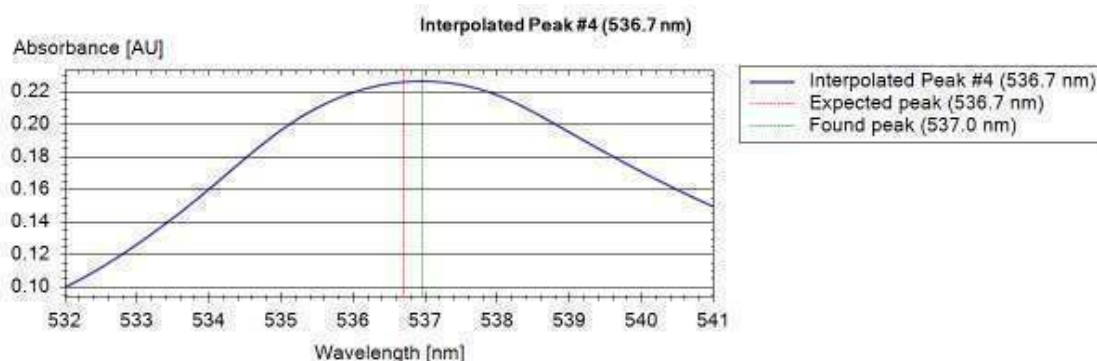
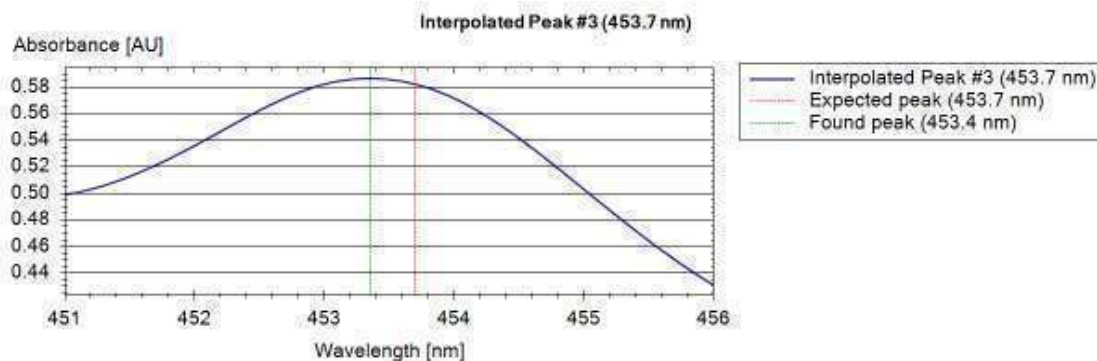
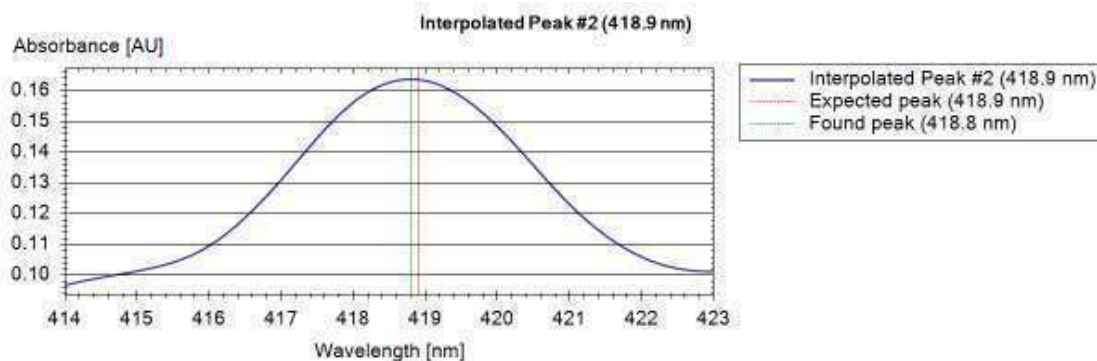
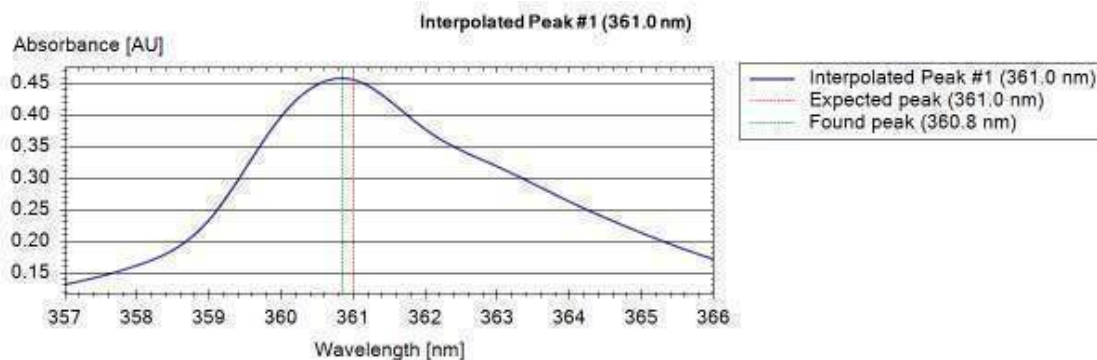
Item	Value	Result
Holmium Deviation to 453.7 nm	-0,35 nm	
<i>Holmium Deviation Limit</i>	<i>-1 ... 1 nm</i>	Passed
Holmium Deviation to 536.7 nm	0,25 nm	
<i>Holmium Deviation Limit</i>	<i>-1 ... 1 nm</i>	Passed
Spectral Flatness	0,0005 AU	
<i>Spectral Flatness Test Limit</i>	<i>0,002 AU</i>	Passed
Signal Noise value at 254 nm (UV)	0,018 mAU	
<i>Maximum Allowed Noise</i>	<i>0,02 mAU</i>	Passed

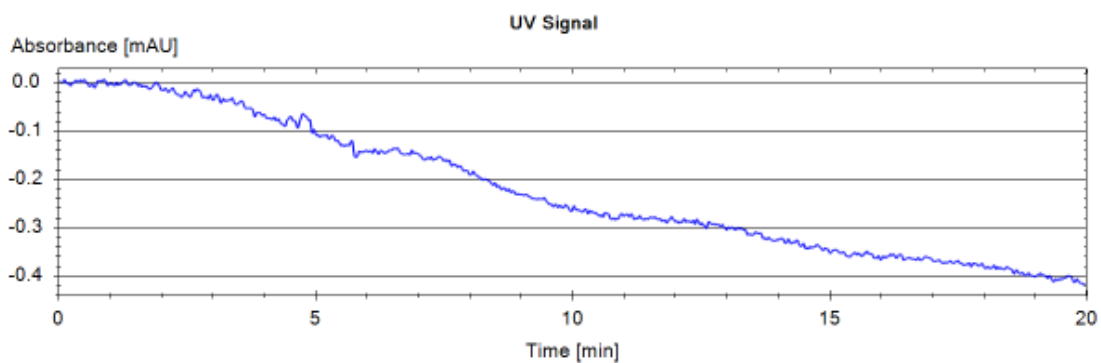
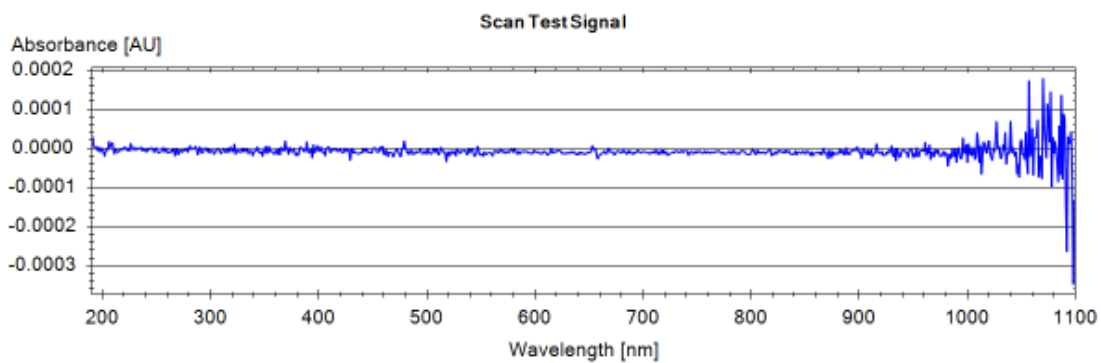
Finished at 26.05.2021 16:57:46

Signals









Signature:

G1315D

Dark Current Test

Passed

DE64260895
B.07.23[0009]
DAD

The test measures the dark current from the detector optic.

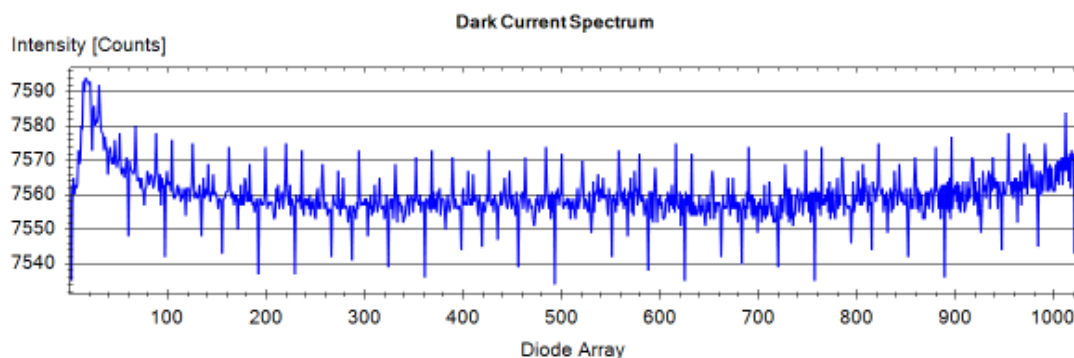
Started at 26.05.2021 17:22:14 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.16.414 - Advanced

Results

Item	Value	Result
Dark Current Minimum	7534 Counts	
<i>Dark Current Range</i>	1 ... 12000 Counts	Passed
Dark Current Average	7560 Counts	Done
Dark Current Maximum	7594 Counts	
<i>Dark Current Range</i>	1 ... 12000 Counts	Passed

Finished at 26.05.2021 17:22:33

Signals



Signature:

G1315D

Filter Test

Passed

DE64260895
B.07.23[0009]
DAD

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

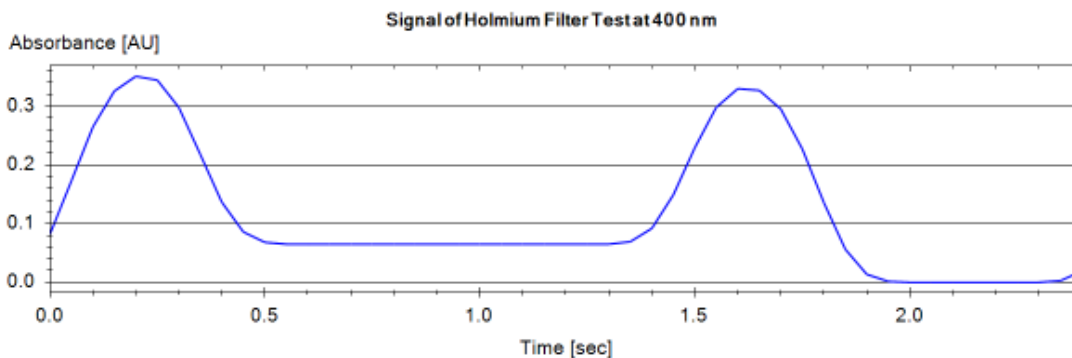
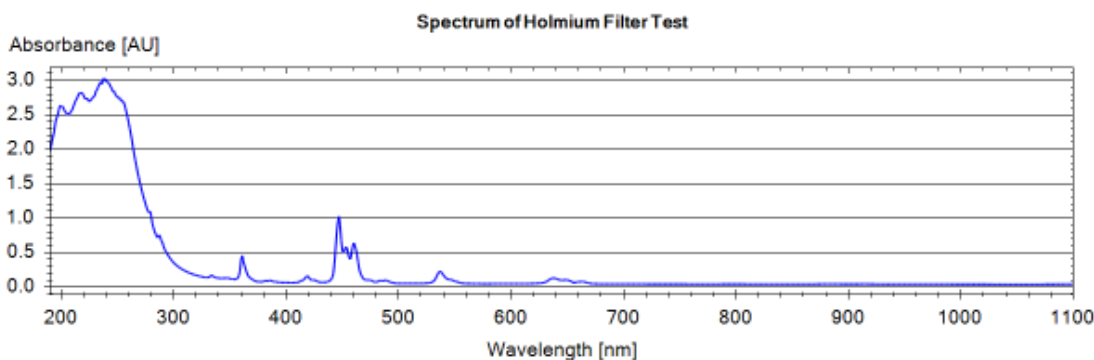
Started at 26.05.2021 17:31:26 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.16.414 - Advanced

Results

Item	Value	Result
Holmium Filter Absorbance at 400 nm	0,07 AU	
<i>Filter Test Limit</i>	<i>0,005 ... 0,5 AU</i>	Passed

Finished at 26.05.2021 17:31:57

Signals



Signature:

G1315D

Holmium Oxide Test

Passed

DE64260895
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.

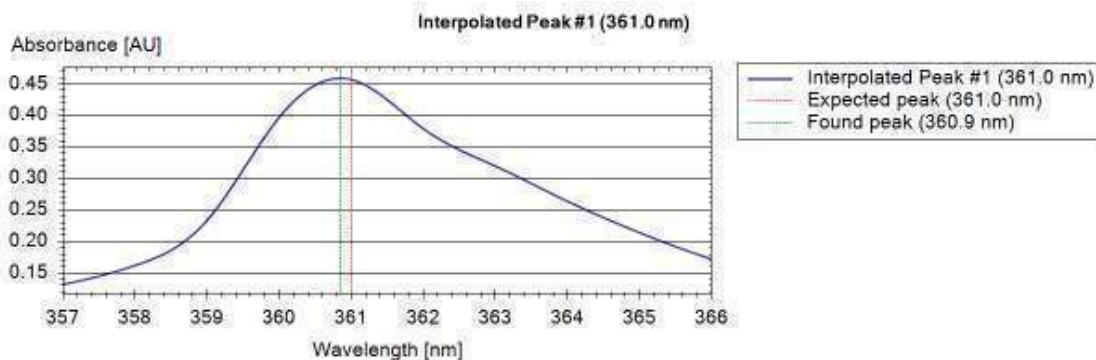
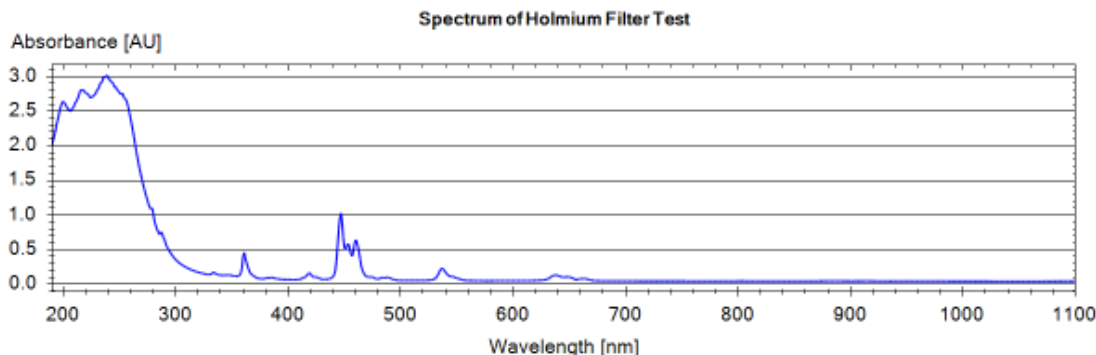
Started at 26.05.2021 17:37:07 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.16.414 - Advanced

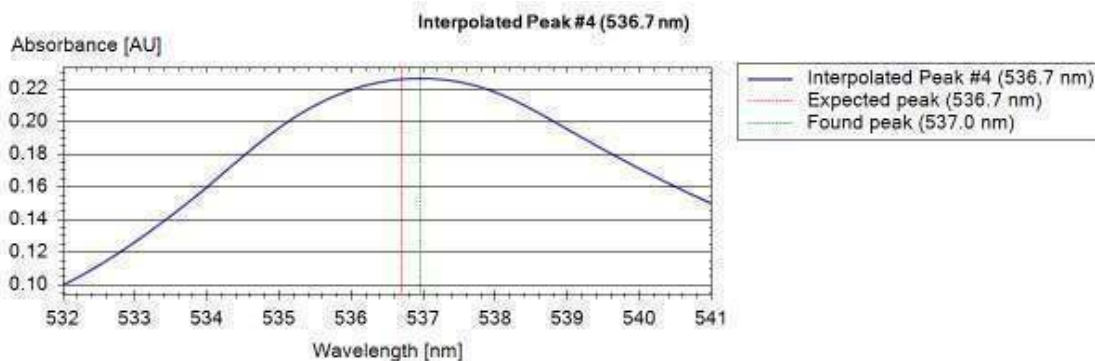
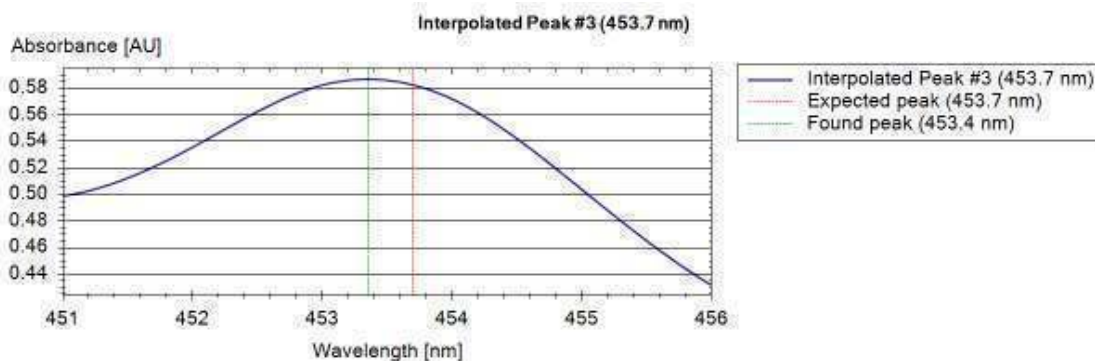
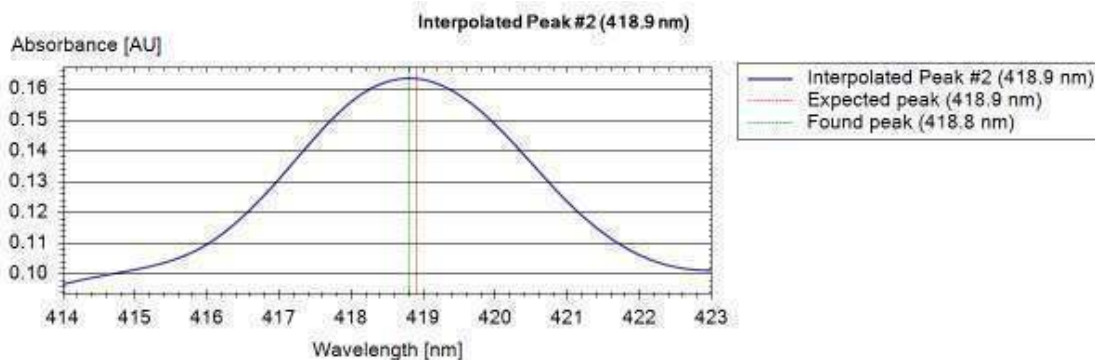
Results

Item	Value	Result
Accumulated UV Lamp On-Time	2,14 h	Done
UV Lamp On-Time	2,14 h	Done
Accumulated Vis Lamp On-Time	5514,42 h	Done
Vis Lamp On-Time	2,16 h	Done
Holmium Deviation to 361.0 nm	-0,15 nm	
<i>Holmium Deviation Limit</i>	-1 ... 1 nm	Passed
Holmium Deviation to 418.9 nm	-0,09 nm	
<i>Holmium Deviation Limit</i>	-1 ... 1 nm	Passed
Holmium Deviation to 453.7 nm	-0,35 nm	
<i>Holmium Deviation Limit</i>	-1 ... 1 nm	Passed
Holmium Deviation to 536.7 nm	0,26 nm	
<i>Holmium Deviation Limit</i>	-1 ... 1 nm	Passed

Finished at 26.05.2021 17:37:38

Signals





Signature:

G1315D

Quick Noise Test

Passed

DE64260895
B.07.23[0009]
DAD

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

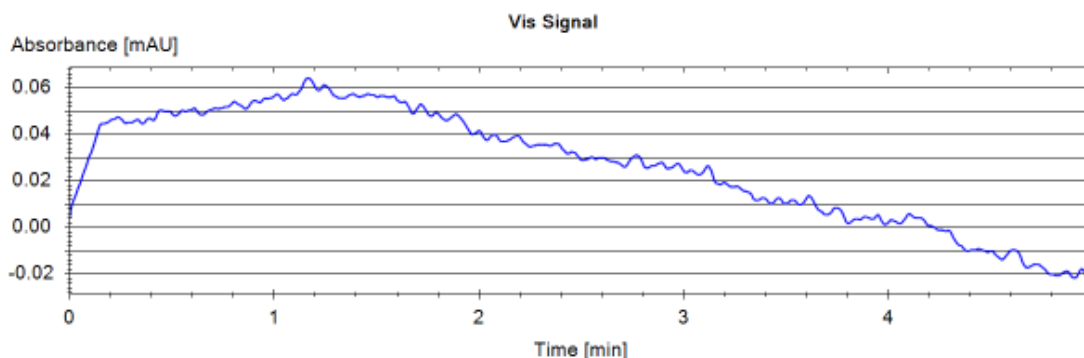
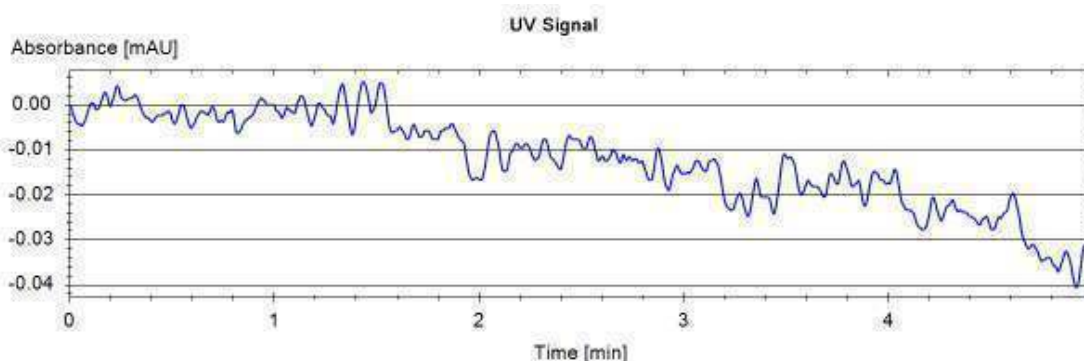
Started at 26.05.2021 17:46:55 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.16.414 - Advanced

Results

Item	Value	Result
Accumulated UV Lamp On-Time	2,31 h	Done
UV Lamp On-Time	2,31 h	
<i>Minimum Lamp On-Time</i>	0,17 h	Passed
Accumulated Vis Lamp On-Time	5514,59 h	Done
Vis Lamp On-Time	2,32 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)	0,015 mAU	
<i>Maximum Allowed Noise</i>	0 ... 0,02 mAU	Passed

Finished at 26.05.2021 17:52:14

Signals



Signature:

G1315D

Slit Test

Passed

DE64260895
B.07.23[0009]
DAD

The slit test verifies correct operation of the micromechanical slit.

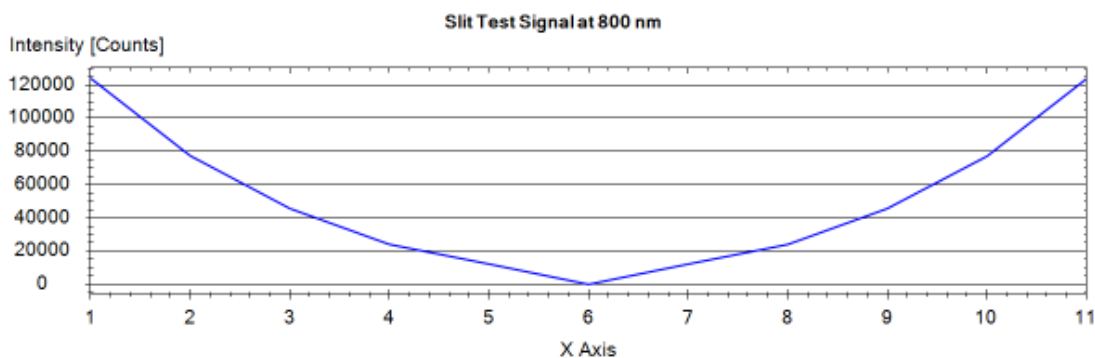
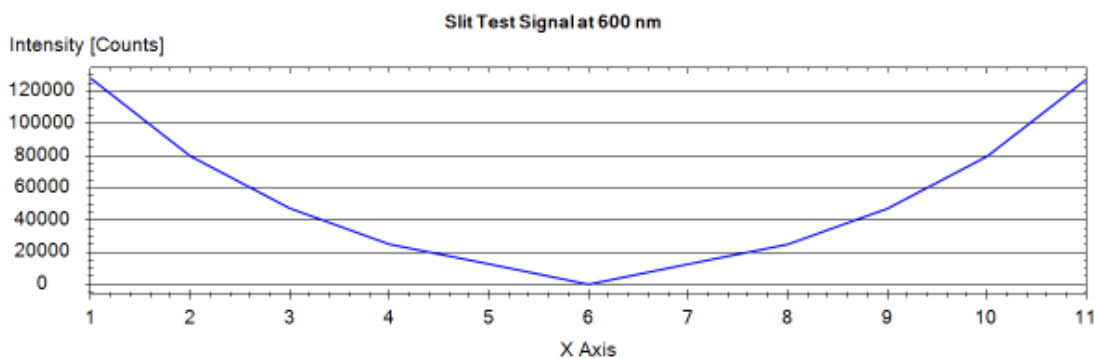
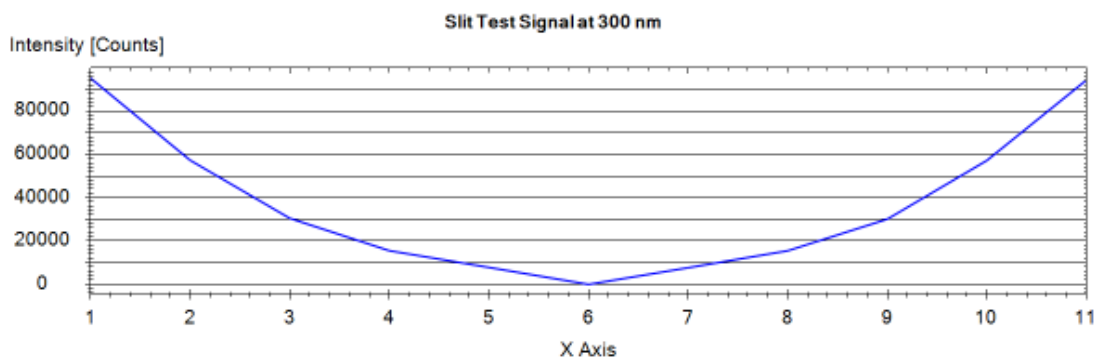
Started at 26.05.2021 18:08:35 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.16.414 - Advanced

Results

Item	Value	Result
Slit Test Result	1,06	
Slit Test Limit	0,7 ... 1,3	Passed

Finished at 26.05.2021 18:09:13

Signals



Signature:

G1315D

Intensity Test

Passed

DE64260895
B.07.23[0009]
DAD

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

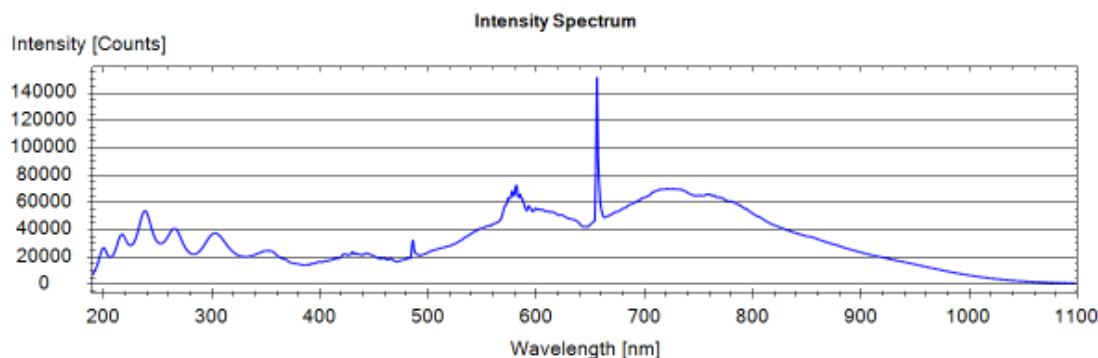
Started at 02.06.2021 18:16:38 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.16.414 - Advanced

Results

Item	Value	Result
Accumulated UV Lamp On-Time	4,35 h	Done
UV Lamp On-Time	0,10 h	Done
Accumulated Vis Lamp On-Time	5516,64 h	Done
Vis Lamp On-Time	0,11 h	Done
Lowest Intensity in Range 190 - 220 nm	7002 Counts	
<i>Lowest Intensity in Range 190 - 220 nm</i>	2000 Counts	Passed
Lowest Intensity in Range 221 - 350 nm	20181 Counts	
<i>Lowest Intensity in Range 221 - 350 nm</i>	5000 Counts	Passed
Lowest Intensity in Range 351 - 500 nm	14102 Counts	
<i>Lowest Intensity in Range 351 - 500 nm</i>	2000 Counts	Passed
Lowest Intensity in Range 501 - 950 nm	14663 Counts	
<i>Lowest Intensity in Range 501 - 950 nm</i>	2000 Counts	Passed
Spectrum Integral	29080374	Done
UV Integral (190 - 349 nm)	4704535	Done

Finished at 02.06.2021 18:17:21

Signals



Signature:

G1315D

Wavelength Calibration

Done

DE64260895
B.07.23[0009]
DAD

The wavelength calibration procedure enables you to check the calibration of the diode array in the detector.
Calibration means adjusting the assignment of diodes to specific wavelengths, and is done using the two deuterium emission lines at 486.0 nm and 656.1 nm.

Started at 26.05.2021 18:09:52 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.16.414 - Advanced

Results

Item	Value	Result
Accumulated UV Lamp On-Time	2,69 h	Done
UV Lamp On-Time	2,69 h	
<i>Minimum Lamp On-Time</i>	<i>0,17 h</i>	Passed
D2 Alpha Line Deviation	-0,007 nm	Done
D2 Beta Line Deviation	0,002 nm	Done

Finished at 26.05.2021 18:10:10

Signature:

G1315D

Wavelength Verification Test

Passed

DE64260895
B.07.23[0009]
DAD

This procedure performs a wavelength verification.

Started at 26.05.2021 18:10:45 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.16.414 - Advanced

Results

Item	Value	Result
Accumulated UV Lamp On-Time	2,70 h	Done
UV Lamp On-Time	2,70 h	
<i>Minimum Lamp On-Time</i>	<i>0,17 h</i>	Passed
D2 Alpha Line Deviation	0,000 nm	
<i>WL Calibration Limit for Alpha Line</i>	<i>-0,5 ... 0,5 nm</i>	Passed
D2 Beta Line Deviation	0,001 nm	
<i>WL Calibration Limit for Beta Line</i>	<i>-0,5 ... 0,5 nm</i>	Passed

Finished at 26.05.2021 18:11:10

Signature:

G1315D

ASTM Drift and Noise Test

Passed

DE64260895
B.07.23[0009]
DAD

The test performs ASTM drift and noise evaluation without reference.

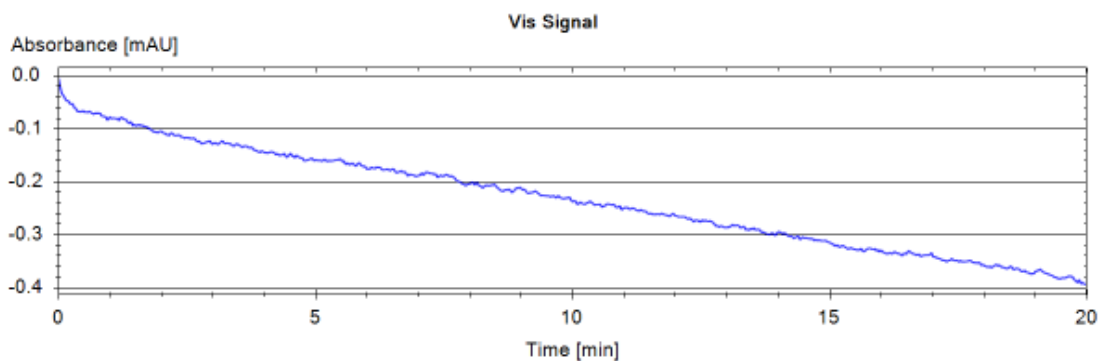
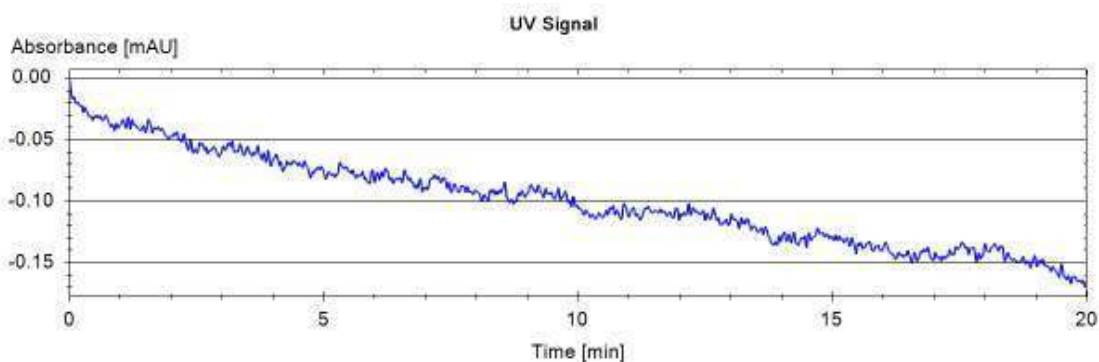
Started at 26.05.2021 18:33:30 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.16.414 - Advanced

Results

Item	Value	Result
Accumulated UV Lamp On-Time	3,08 h	Done
UV Lamp On-Time	3,08 h	
<i>Minimum Lamp On-Time</i>	1 h	Passed
Accumulated Vis Lamp On-Time	5515,37 h	Done
Vis Lamp On-Time	3,10 h	
<i>Minimum Lamp On-Time</i>	1 h	Passed
Signal Drift value at 254 nm (UV)	-0,372 mAU/h	
<i>Maximum Allowed Drift</i>	-1 ... 1 mAU/h	Passed
Signal Noise value at 254 nm (UV)	0,014 mAU	
<i>Maximum Allowed Noise</i>	0 ... 0,02 mAU	Passed
Signal Drift value at 750 nm (Vis)	-0,964 mAU/h	
<i>Maximum Allowed Drift</i>	-1 ... 1 mAU/h	Passed
Signal Noise value at 750 nm (Vis)	0,012 mAU	
<i>Maximum Allowed Noise</i>	0 ... 0,02 mAU	Passed

Finished at 26.05.2021 18:53:51

Signals



G1315D

Module Info

Done

DE64260895
B.07.23[0009]
DAD

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

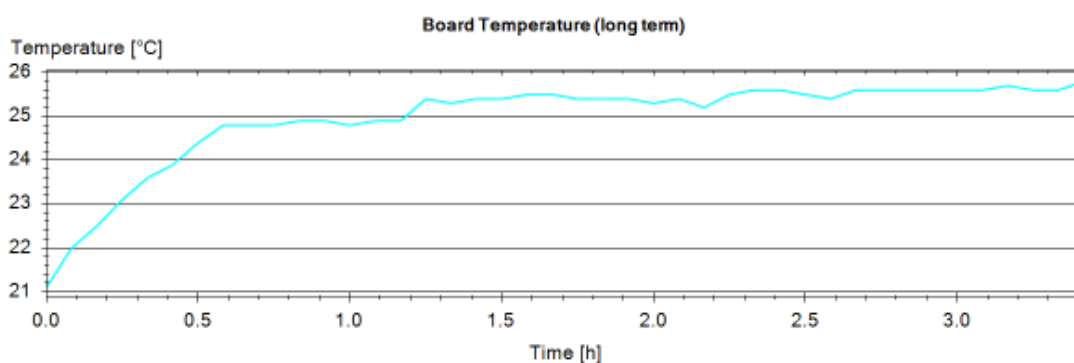
Started at 26.05.2021 18:55:03 by FIBRESTORE-8570\Benutzer1 on FIBRESTORE-8570 using Agilent Lab Advisor - Version 2.16.414 - Advanced

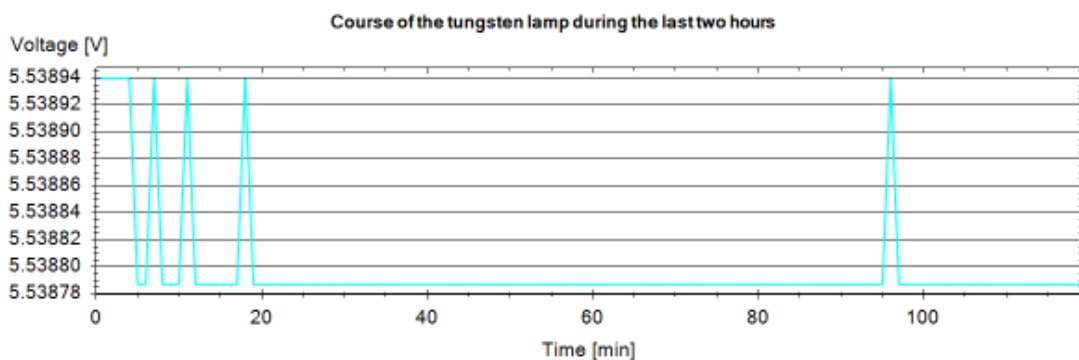
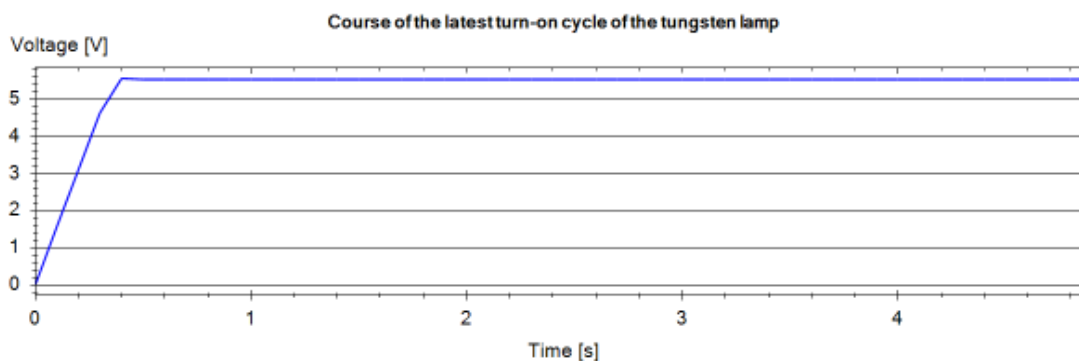
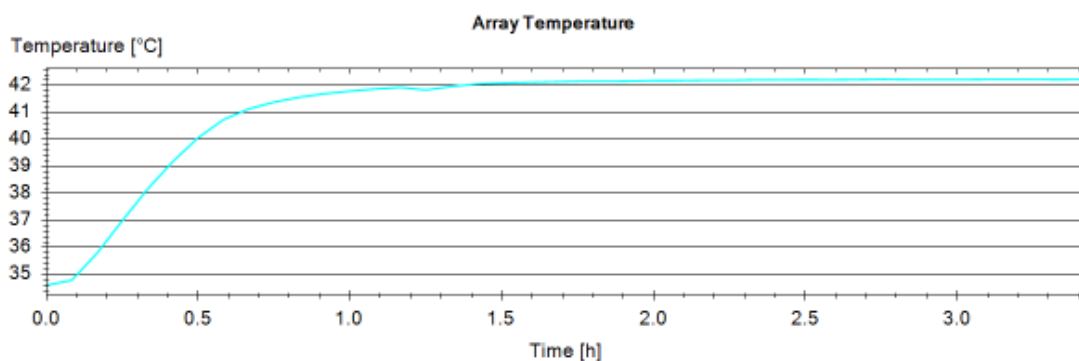
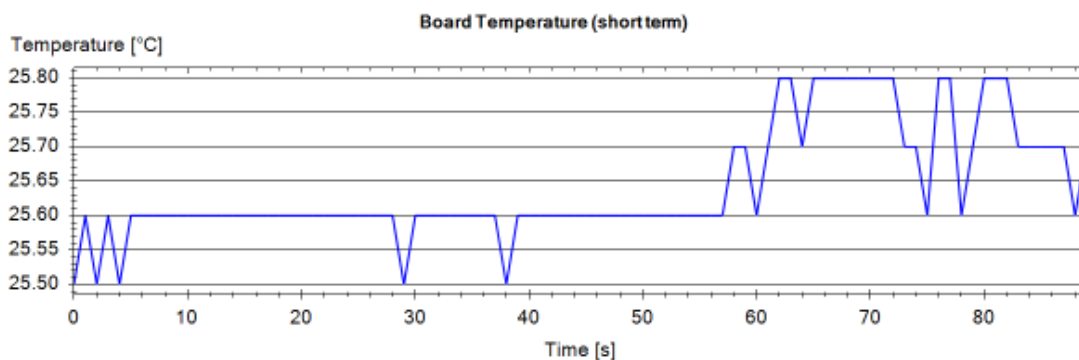
Results

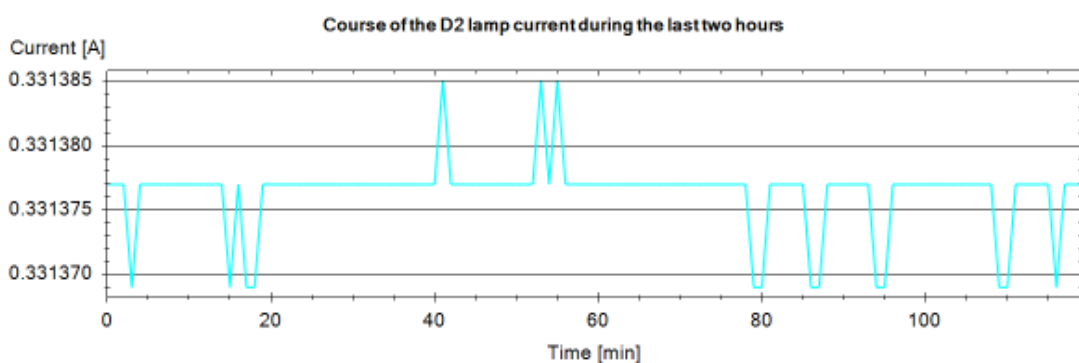
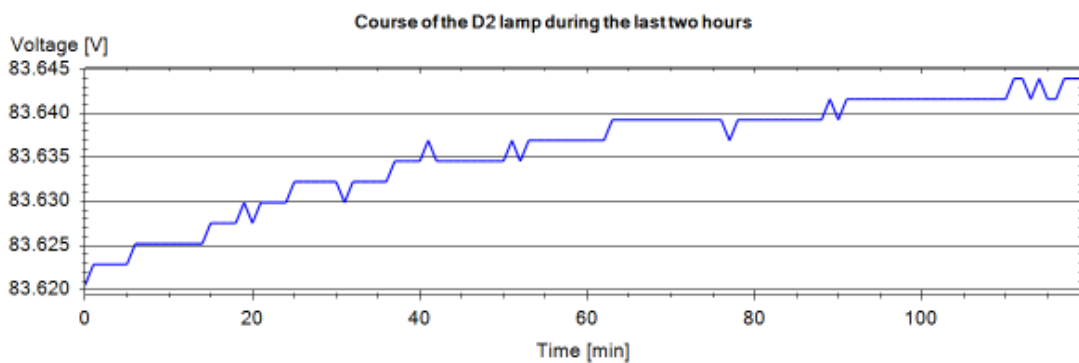
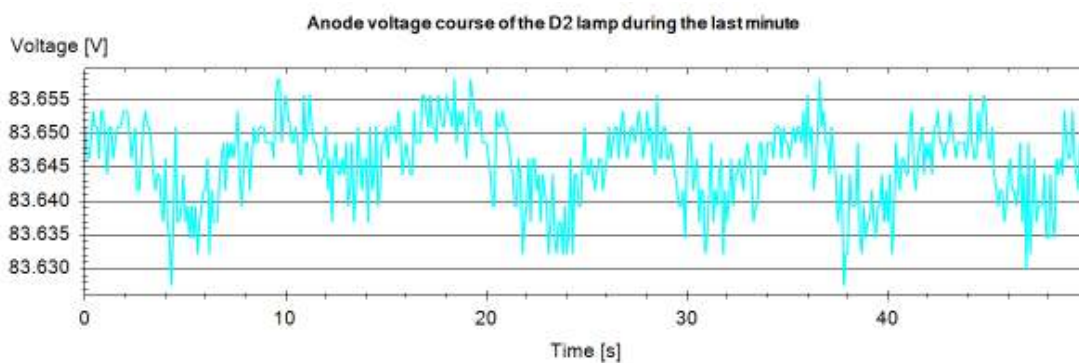
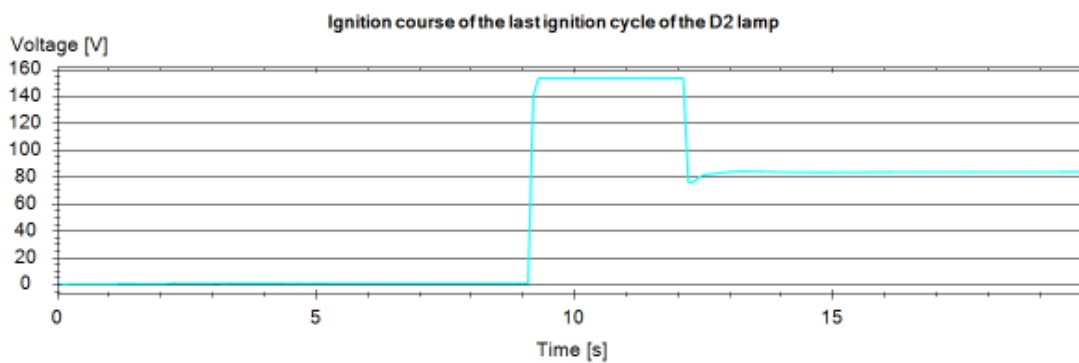
Item	Value	Result
Firmware Main System Revision	B.07.23	Done
Firmware Main System Revision Build Number	[0009]	Done
Firmware Resident System Revision	B.07.23	Done
Hardware Main Board Details	TYPE=G1315-66565, SER=MAC, REV=AC	Done
System Date and Time	Firmware Clock: 26.05.2021 18:53:47, Controller Clock: 26.05.2021 18:55:03	Done
Product Options	DAD	Done
Device Detail #1	Flow Cell (Product# G1315- 60022, Serial# DE742H6523, Path Length 10.00 mm, Volume 13.00 ul)	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: 192.168.0.130, SM: 255.255.255.0, GW: 0.0.0.0, MAC: 0030D315791E, Init Mode: Using Stored)	Done

Finished at 26.05.2021 18:55:11

Signals







Tables

Maintenance History

Date	Maintenance Description
08/16/2016 13:12:55	Standard PM done. See PM checklist.
08/19/2015 08:13:40	Standard PM done. See PM checklist.

Firmware Revision

Date	Revision
05/26/2021 15:20:01	B.07.23 [0009]
08/19/2015 08:10:25	B.06.75 [0010]

WL Calibration History

Date	Deviation of D2-alpha line (in nm)	Deviation of D2- beta line (in nm)
05/26/2021 18:08:54	0.088	0.107
08/19/2015 09:20:29	0.095	0.105

Signature:

Contact Information

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

Software Information

Lab Advisor Version 2.16.414
 Installed Lab Advisor Add-ons Agilent LC/CE 1.0.7611.2394
 9

System Configuration

Instrument Name	Type	Address	Data last updated on
fibrestore	Agilent LC	192.168.0.130	26.05.2021 18:10:56

	Firmware	Status	Details
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
G1315D DE64260895 DAD	B.07.23 [0009]	Not Ready	- Flow Cell (Product# G1315-60022, Serial# DE742H6523, Path Length 10.00 mm, Volume 13.00 ul) - No UV Lamp Info - LAN Settings (IP: 192.168.0.130, SM: 255.255.255.0, GW: 0.0.0.0, MAC: 0030D315791E, Init Mode: Using Stored)
G4208A MY94672510 1200 Instant Pilot	B.02.23 [0001]	Idle	

Test and Calibration Procedure Results

	Description	Date
██████████ ██████████ ██████████	Module Info - Done	██████████
	Description	Date
G1315D	Module Info - Done	26.05.2021 18:53:46
DE64260895	ASTM Drift and Noise Test - Passed	26.05.2021 18:32:14
DAD	ASTM Drift and Noise Test - Failed	26.05.2021 18:10:31
	Wavelength Verification Test - Passed	26.05.2021 18:09:28
	Wavelength Calibration - Done	26.05.2021 18:08:36
	Slit Test - Passed	26.05.2021 18:07:19
	Quick Noise Test - Passed	26.05.2021 17:45:39
	Intensity Test - Passed	26.05.2021 17:44:24
	Holmium Oxide Test - Passed	26.05.2021 17:35:51
	Filter Test - Passed	26.05.2021 17:30:10
	Dark Current Test - Passed	26.05.2021 17:20:58
	Self Test - Passed	26.05.2021 16:33:52
	Module Info - Done	26.05.2021 15:28:25

Associated Logs

	Description	Date
██████████ ██████████ ██████████	██████████	██████████
	Description	Date
G1315D	B.07.23 [0009]	26.05.2021 15:20:01
DE64260895		
DAD		

fibreStore

Early Maintenance Feedback Counters

	Description	Value	Unit	Limit
████████	████████████████████	████	█	█
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G1315D	Accumulated UV Lamp On-Time	0	h	0
DE64260895	Number of UV Lamp Ignitions	0	Count	0
DAD	Accumulated Tungsten Lamp On-Time	5512.27	h	0
	Number of Tungsten Lamp Ignitions	153	Count	0