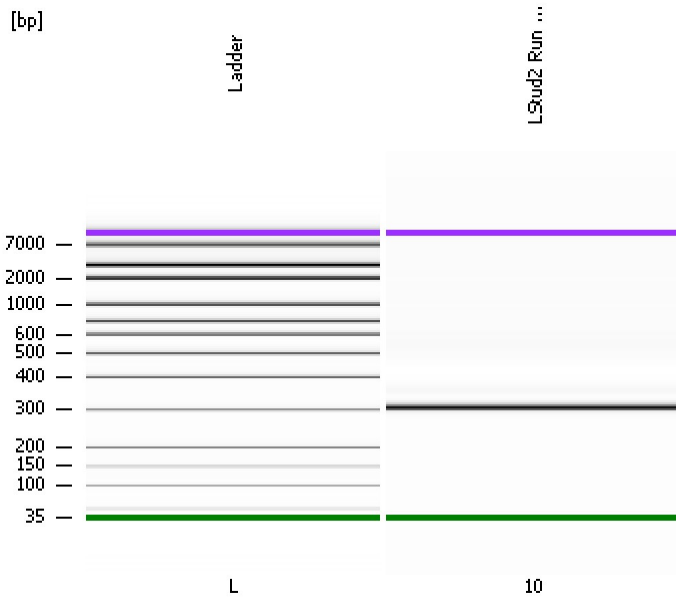


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2016-03-11\2016-03-11_003_LStud2_AmpliconQC.xad

Created: 3/11/2016 12:43:10 PM
Modified: 3/11/2016 4:54:27 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

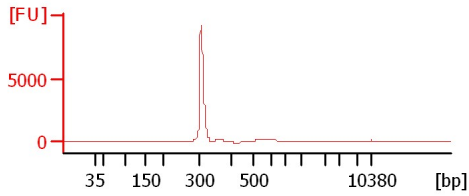
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

LStud2 Run Mills Lab Amplicon QC



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2016-03-11\2016-03-11_003_LStud2_AmpliconQC.xad

Created: 3/11/2016 12:43:10 PM
Modified: 3/11/2016 4:54:27 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|----------------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| LStud2 Run Mills Lab Amplicon QC | | <input type="checkbox"/> | | | | |
| Ladder | | <input type="checkbox"/> | | | | |

Chip Lot #**Reagent Kit Lot #****Chip Comments :**

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2016-03-11\2016-03-11_003_LStud2_AmpliconQC.xad

Created: 3/11/2016 12:43:10 PM
Modified: 3/11/2016 4:54:27 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/μl] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/μl] : 125
Upper Marker Concentration [pg/μl] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 5
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

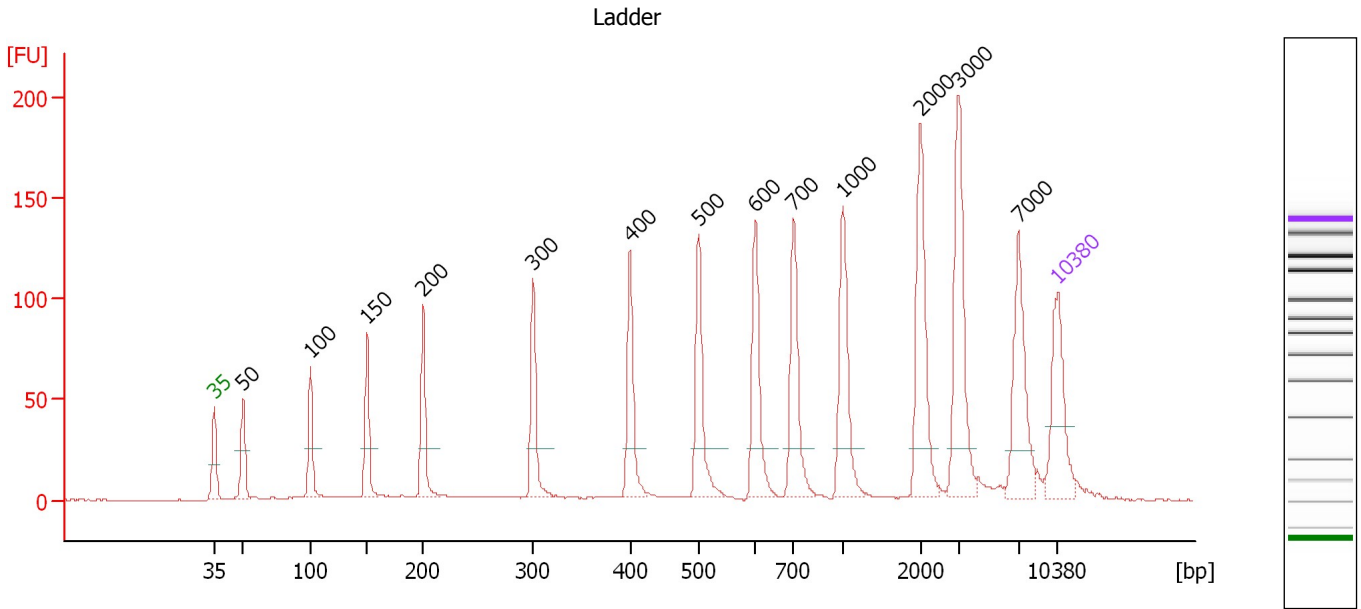
Ladder

| Ladder Peak | Size | Area |
|-------------|-------|------|
| 1 | 35 | 160 |
| 2 | 50 | 210 |
| 3 | 100 | 208 |
| 4 | 150 | 221 |
| 5 | 200 | 242 |
| 6 | 300 | 270 |
| 7 | 400 | 305 |
| 8 | 500 | 306 |
| 9 | 600 | 336 |
| 10 | 700 | 321 |
| 11 | 1000 | 366 |
| 12 | 2000 | 413 |
| 13 | 3000 | 411 |
| 14 | 7000 | 400 |
| 15 | 10380 | 214 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...expert\data\2016-03-11\2016-03-11_003_LStud2_AmpliconQC.xad

Created: 3/11/2016 12:43:10 PM
 Modified: 3/11/2016 4:54:27 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

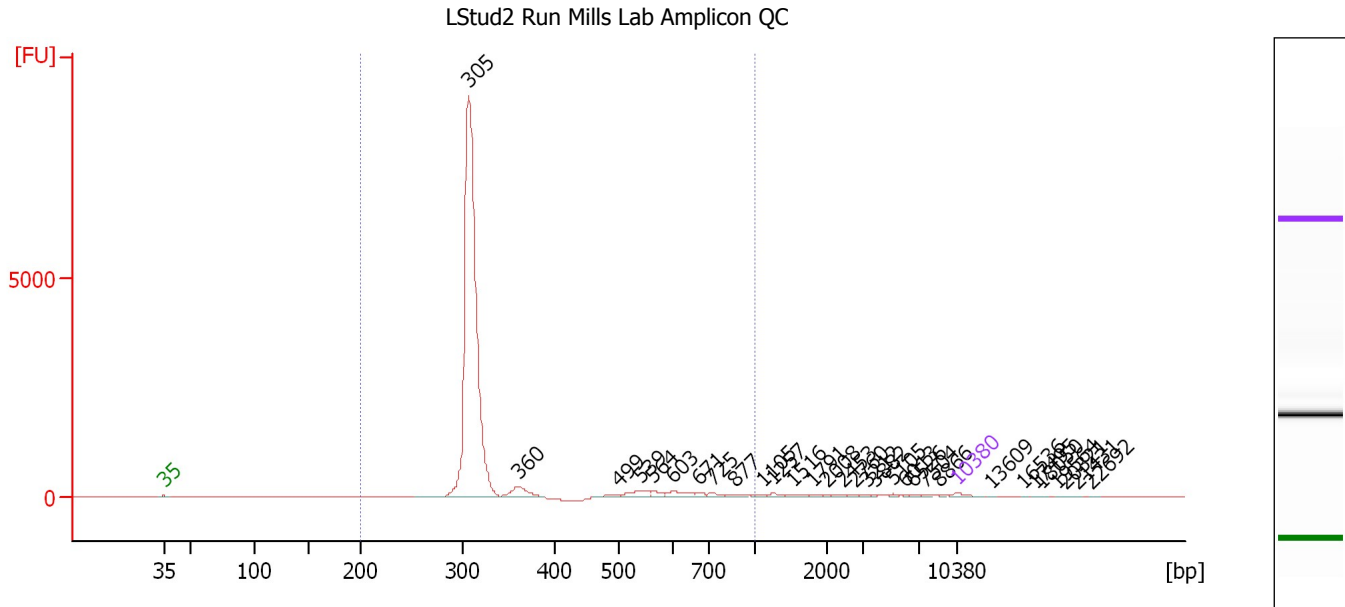
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak | 45.39 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.96 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.70 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.35 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.46 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.51 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.22 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.91 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.10 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.17 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.58 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.77 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.73 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...expert\data\2016-03-11\2016-03-11_003_LStud2_AmpliconQC.xad

Created: 3/11/2016 12:43:10 PM
 Modified: 3/11/2016 4:54:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : LStud2 Run Mills Lab Amplicon QC

Number of peaks found: 31 Corr. Area 1: 16,845.1
 Noise: 0.3

Peak table for sample 10 : LStud2 Run Mills Lab Amplicon QC

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 305 | 14,412.49 | 71,531.0 | | 69.89 |
| 3 | 360 | 516.97 | 2,176.3 | | 74.28 |
| 4 | 499 | 110.66 | 335.8 | | 83.18 |
| 5 | 539 | 290.50 | 817.0 | | 85.04 |
| 6 | 564 | 150.92 | 405.6 | | 86.21 |
| 7 | 603 | 234.76 | 589.4 | | 88.02 |
| 8 | 671 | 74.22 | 167.6 | | 90.17 |
| 9 | 725 | 102.95 | 215.0 | | 91.44 |
| 10 | 877 | 107.15 | 185.2 | | 93.50 |
| 11 | 1,105 | 58.35 | 80.0 | | 95.84 |
| 12 | 1,257 | 72.04 | 86.8 | | 96.82 |
| 13 | 1,516 | 80.30 | 80.2 | | 98.48 |
| 14 | 1,791 | 34.58 | 29.3 | | 100.24 |
| 15 | 2,008 | 20.79 | 15.7 | | 101.61 |
| 16 | 2,453 | 41.74 | 25.8 | | 103.03 |
| 17 | 2,760 | 34.25 | 18.8 | | 104.01 |
| 18 | 3,212 | 33.44 | 15.8 | | 105.03 |
| 19 | 3,882 | 22.94 | 9.0 | | 105.86 |
| 20 | 5,105 | 35.95 | 10.7 | | 107.38 |
| 21 | 6,013 | 24.74 | 6.2 | | 108.50 |
| 22 | 6,526 | 38.06 | 8.8 | | 109.14 |
| 23 | 7,504 | 32.61 | 6.6 | | 110.21 |
| 24 | 8,866 | 22.47 | 3.8 | | 111.53 |
| 25 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...expert\data\2016-03-11\2016-03-11_003_LStud2_AmpliconQC.xad


Created: 3/11/2016 12:43:10 PM
 Modified: 3/11/2016 4:54:27 PM

Electropherogram Summary Continued ...

... Peak table for sample 10 : LStud2 Run Mills Lab Amplicon QC

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 13,609 | 0.00 | 0.0 | | 116.13 |
| 27 | 16,536 | 0.00 | 0.0 | | 118.96 |
| 28 | 17,495 | 0.00 | 0.0 | | 119.89 |
| 29 | 18,050 | 0.00 | 0.0 | | 120.43 |
| 30 | 19,564 | 0.00 | 0.0 | | 121.90 |
| 31 | 20,321 | 0.00 | 0.0 | | 122.63 |
| 32 | 21,431 | 0.00 | 0.0 | | 123.71 |
| 33 | 22,692 | 0.00 | 0.0 | | 124.93 |

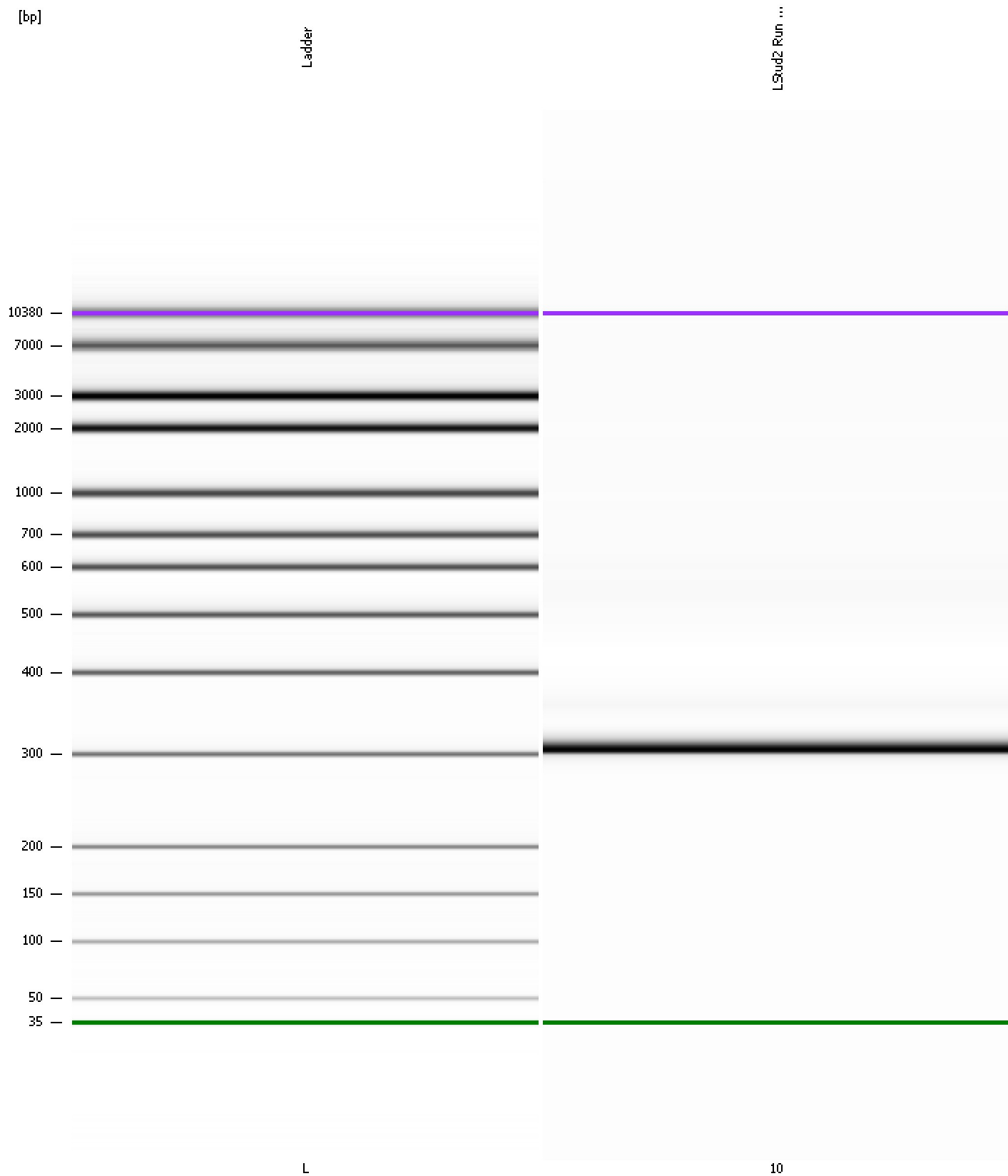
Region table for sample 10 : LStud2 Run Mills Lab Amplicon QC

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|---|------------|-----------------------------|
| 200 | 1,000 | 341 | 16,845.1 | 74,475.7 |  15,766.89 | 95 | 29.7 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...expert\data\2016-03-11\2016-03-11_003_LStud2_AmpliconQC.xad

Created: 3/11/2016 12:43:10 PM
Modified: 3/11/2016 4:54:27 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...expert\data\2016-03-11\2016-03-11_003_LStud2_AmpliconQC.xad

Created: 3/11/2016 12:43:10 PM
 Modified: 3/11/2016 4:54:27 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--|--------|------------|----------|--------------|-----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 12) | | Instrument | Run | | 3/11/2016 1:23:39 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-11\2016-03-11_003.xad) | | Instrument | Run | | 3/11/2016 12:43:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 3/11/2016 12:43:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 3/11/2016 12:43:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 3/11/2016 12:43:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 3/11/2016 12:43:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 3/11/2016 12:43:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 3/11/2016 12:43:16 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |