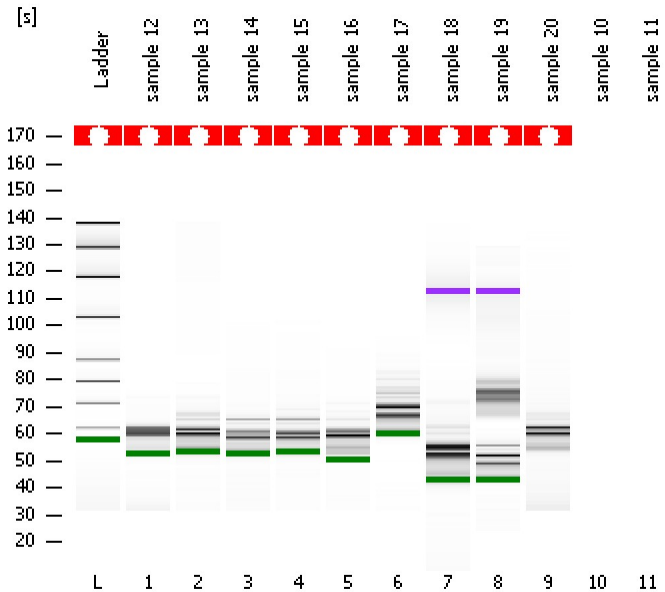


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
Modified: 1/29/2015 10:47:11 AM

### Electrophoresis File Run Summary



#### Instrument Information:

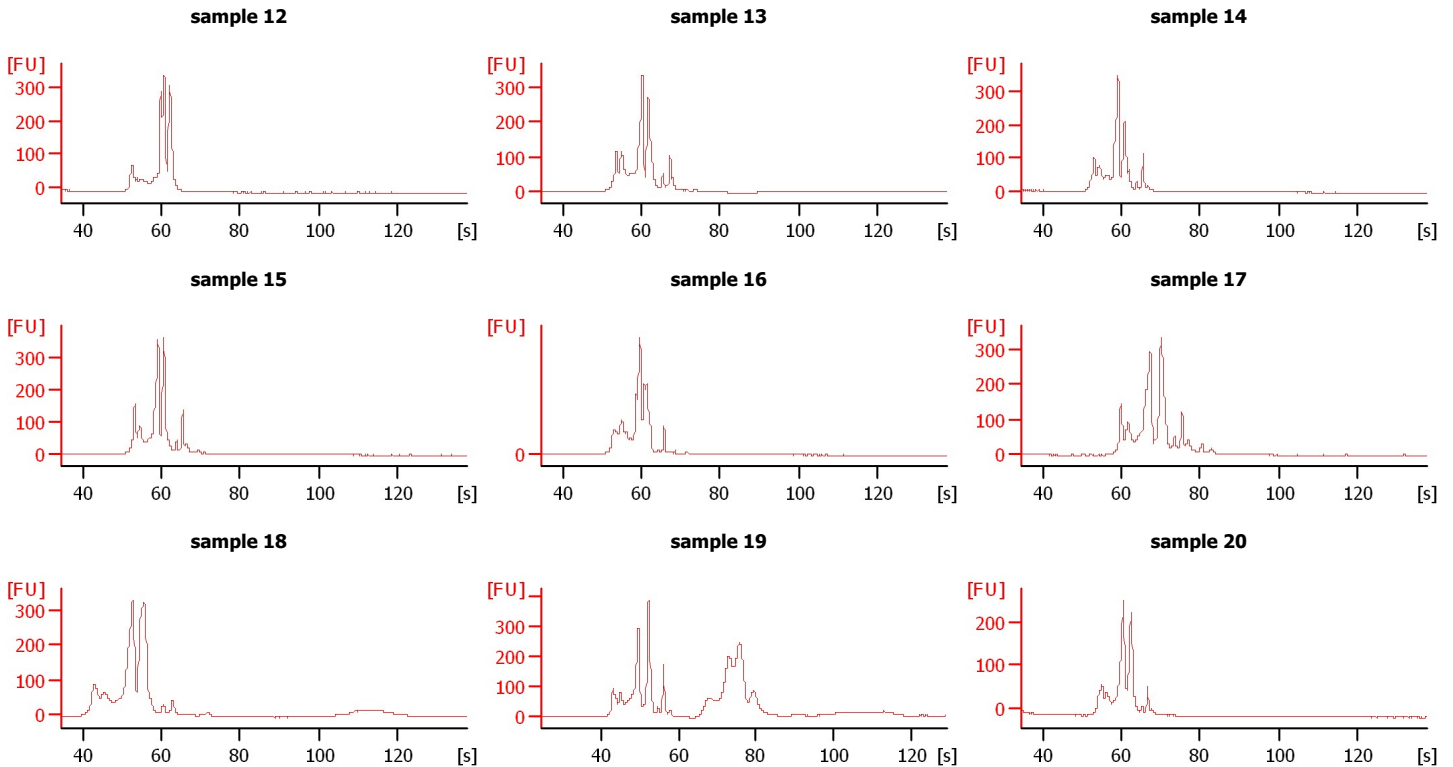
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
 Modified: 1/29/2015 10:47:11 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 12		<input type="checkbox"/>	✓			
sample 13		<input type="checkbox"/>	✓			
sample 14		<input type="checkbox"/>	✓			
sample 15		<input type="checkbox"/>	✓			
sample 16		<input type="checkbox"/>	✓			
sample 17		<input type="checkbox"/>	✓			
sample 18		<input type="checkbox"/>	✓			
sample 19		<input type="checkbox"/>	✓			
sample 20		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
Modified: 1/29/2015 10:47:11 AM

**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

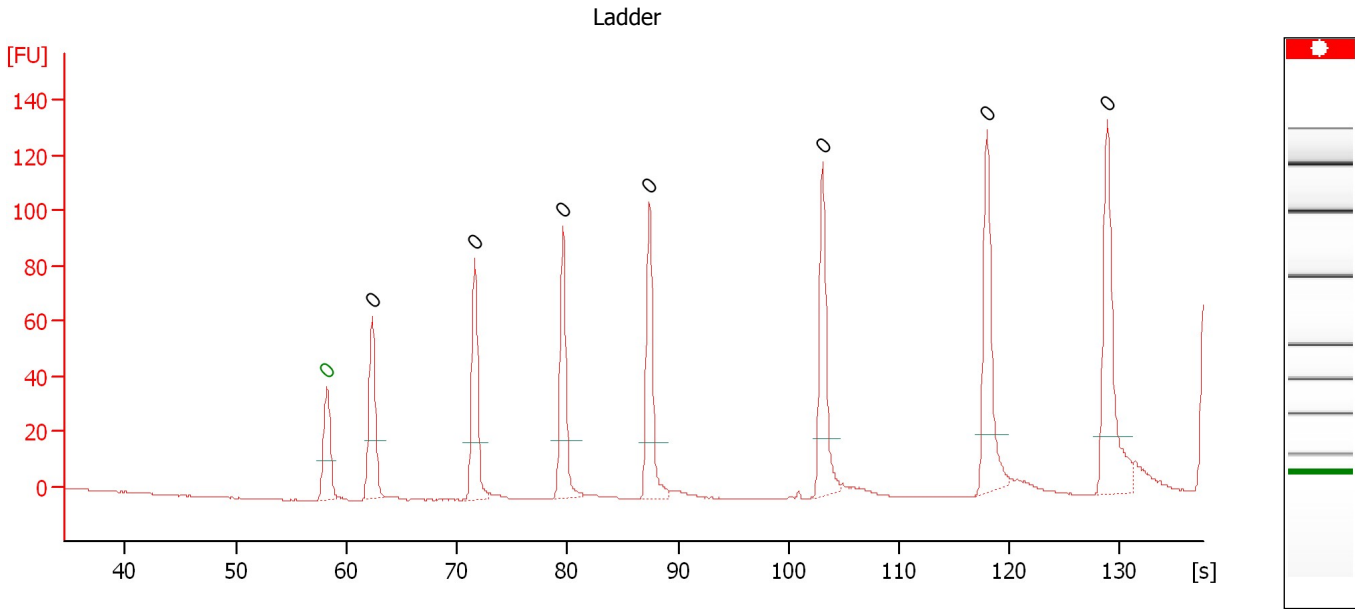
**Ladder**

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:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
 Modified: 1/29/2015 10:47:11 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

**Peak table for Ladder**

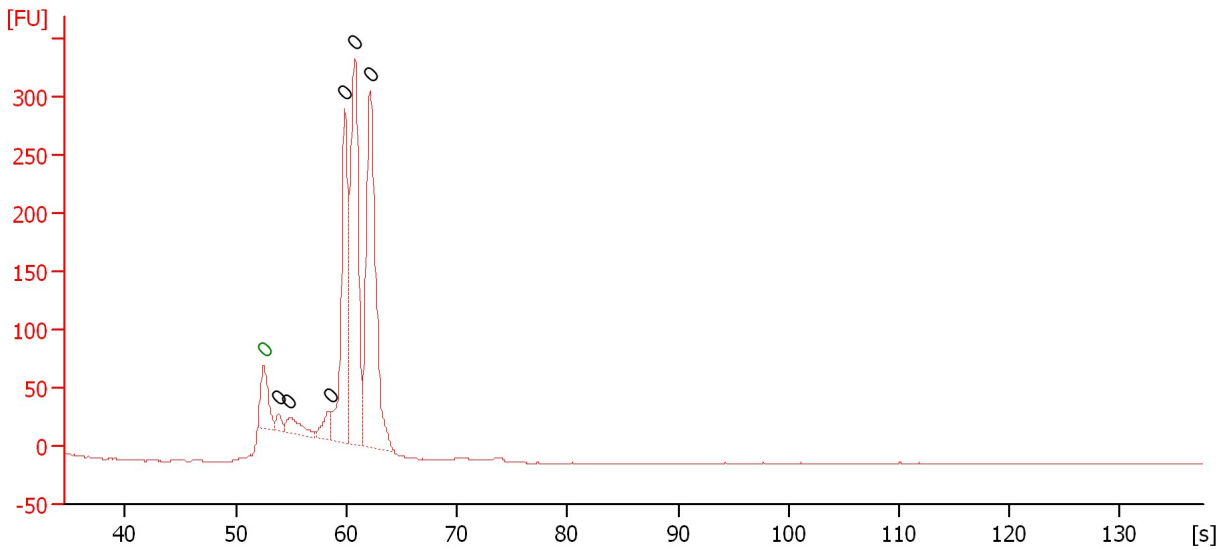
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	58.25
2	0	0.00	0.0	Ladder Peak	62.35
3	0	0.00	0.0	Ladder Peak	71.65
4	0	0.00	0.0	Ladder Peak	79.60
5	0	0.00	0.0	Ladder Peak	87.45
6	0	0.00	0.0	Ladder Peak	103.10
7	0	0.00	0.0	Ladder Peak	117.95
8	0	0.00	0.0	Ladder Peak	128.85

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
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**Electropherogram Summary Continued ...**

sample 12



**Overall Results for sample 1 : sample 12**

Number of peaks found: 6                      Noise: 0.2

**Peak table for sample 1 : sample 12**

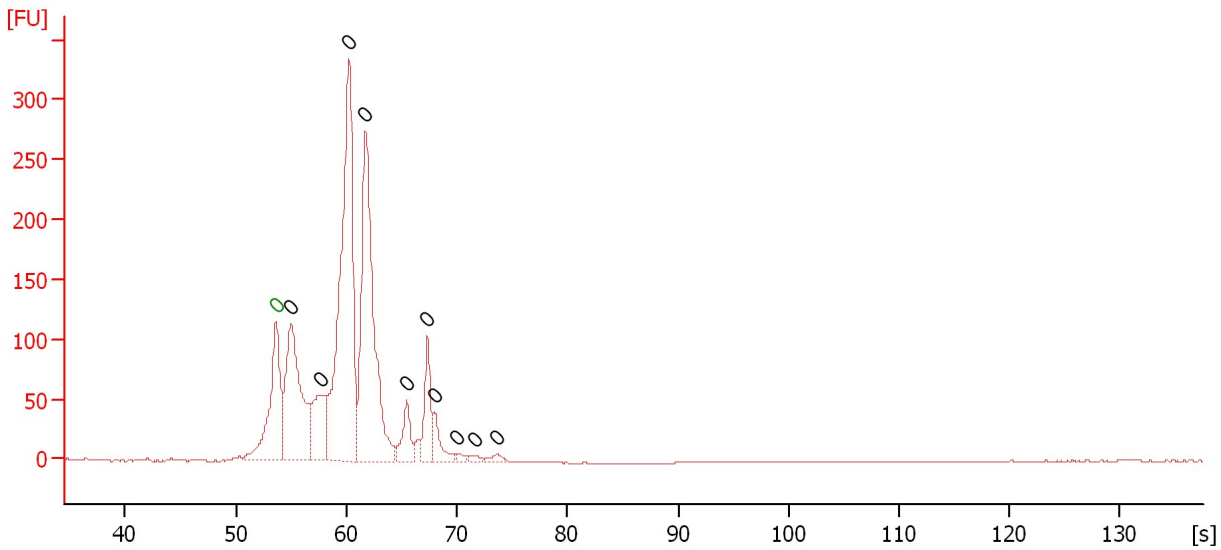
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	52.55
2	0	0.00	0.0		53.90
3	0	0.00	0.0		54.85
4	0	0.00	0.0		58.55
5	0	0.00	0.0		59.85
6	0	0.00	0.0		60.80
7	0	0.00	0.0		62.15

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
 Modified: 1/29/2015 10:47:11 AM

**Electropherogram Summary Continued ...**

sample 13



**Overall Results for sample 2 : sample 13**

Number of peaks found: 10                      Noise: 0.2

**Peak table for sample 2 : sample 13**

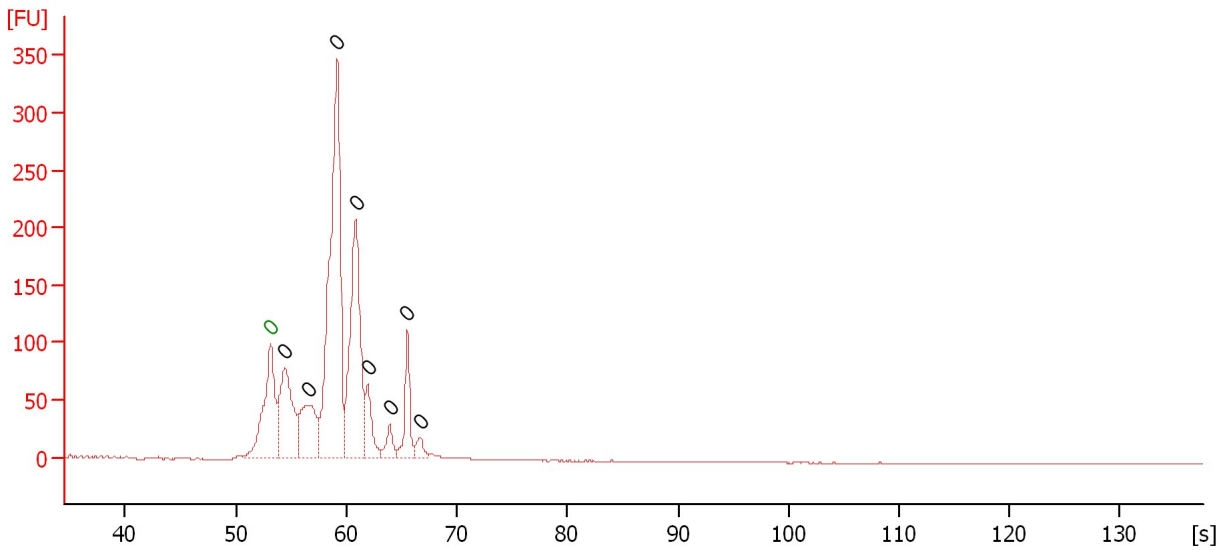
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	53.65
2	0	0.00	0.0		55.05
3	0	0.00	0.0		57.70
4	0	0.00	0.0		60.25
5	0	0.00	0.0		61.75
6	0	0.00	0.0		65.50
7	0	0.00	0.0		67.35
8	0	0.00	0.0		68.00
9	0	0.00	0.0		70.05
10	0	0.00	0.0		71.60
11	0	0.00	0.0		73.65

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
Modified: 1/29/2015 10:47:11 AM

**Electropherogram Summary Continued ...**

sample 14



**Overall Results for sample 3 : sample 14**

Number of peaks found: 8                      Noise: 0.2

**Peak table for sample 3 : sample 14**

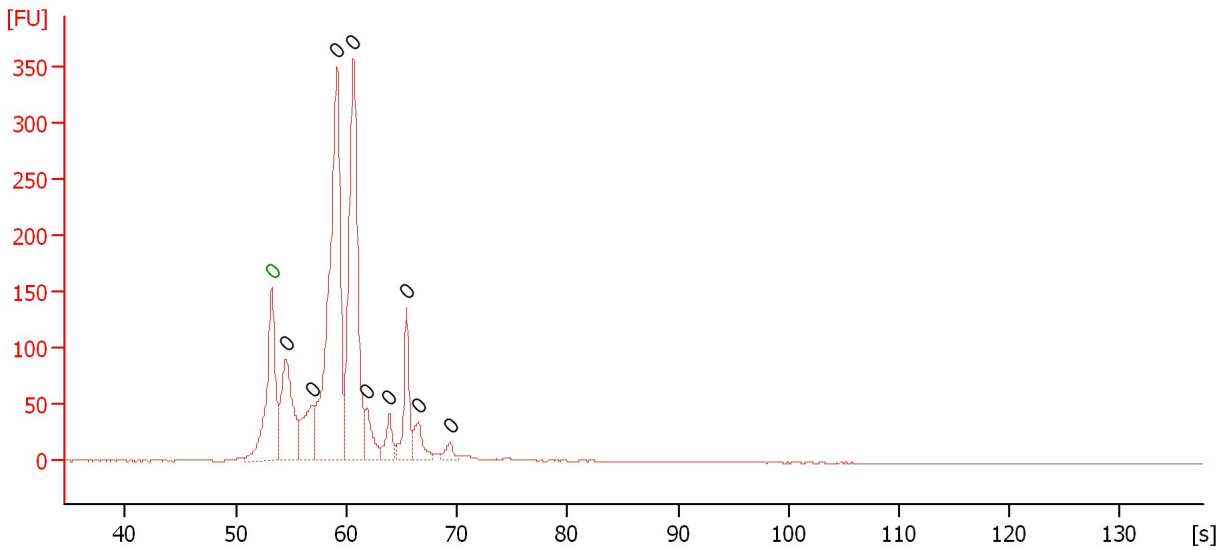
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	53.15
2	0	0.00	0.0		54.45
3	0	0.00	0.0		56.60
4	0	0.00	0.0		59.20
5	0	0.00	0.0		60.85
6	0	0.00	0.0		61.95
7	0	0.00	0.0		63.95
8	0	0.00	0.0		65.55
9	0	0.00	0.0		66.70

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
Modified: 1/29/2015 10:47:11 AM

**Electropherogram Summary Continued ...**

sample 15



**Overall Results for sample 4 : sample 15**

Number of peaks found: 9                      Noise: 0.1

**Peak table for sample 4 : sample 15**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	53.25
2	0	0.00	0.0		54.55
3	0	0.00	0.0		57.00
4	0	0.00	0.0		59.20
5	0	0.00	0.0		60.65
6	0	0.00	0.0		61.90
7	0	0.00	0.0		63.90
8	0	0.00	0.0		65.45
9	0	0.00	0.0		66.50
10	0	0.00	0.0		69.40

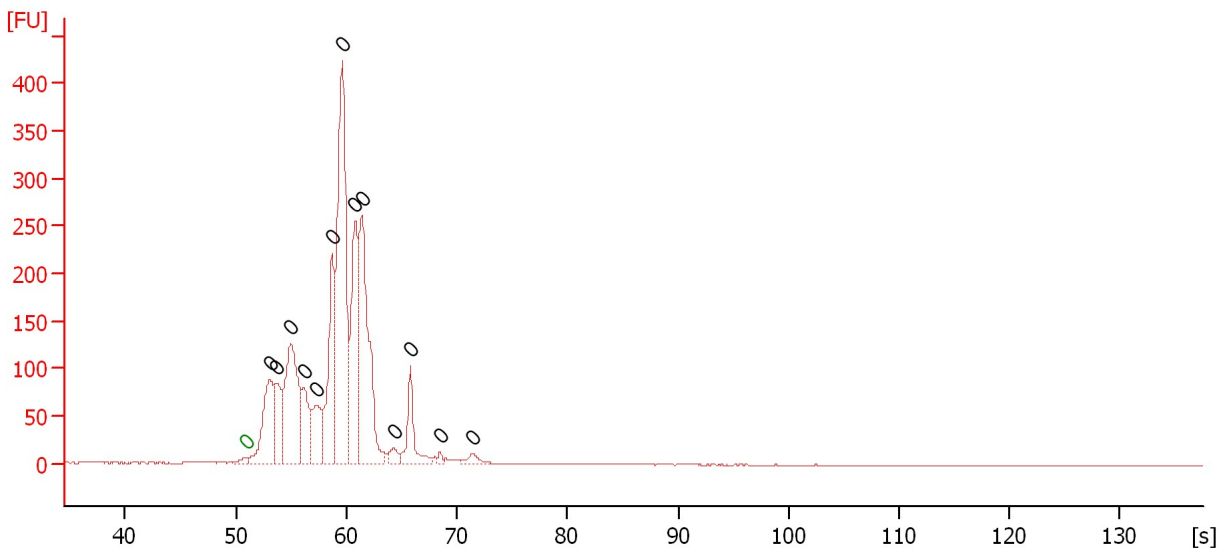


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
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**Electropherogram Summary Continued ...**

sample 16



**Overall Results for sample 5 : sample 16**

Number of peaks found: 13                      Noise: 0.2

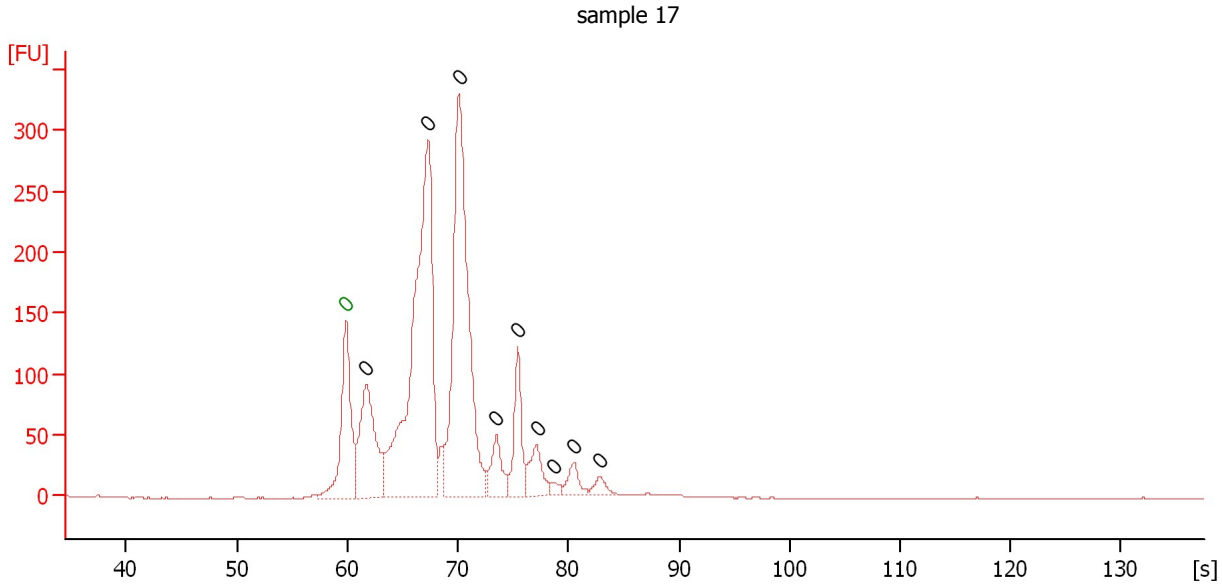
**Peak table for sample 5 : sample 16**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	50.90
2	0	0.00	0.0		53.10
3	0	0.00	0.0		53.65
4	0	0.00	0.0		55.00
5	0	0.00	0.0		56.20
6	0	0.00	0.0		57.25
7	0	0.00	0.0		58.70
8	0	0.00	0.0		59.65
9	0	0.00	0.0		60.80
10	0	0.00	0.0		61.45
11	0	0.00	0.0		64.30
12	0	0.00	0.0		65.80
13	0	0.00	0.0		68.50
14	0	0.00	0.0		71.50

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
 Modified: 1/29/2015 10:47:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 17**

Number of peaks found: 9                      Noise: 0.1

**Peak table for sample 6 : sample 17**

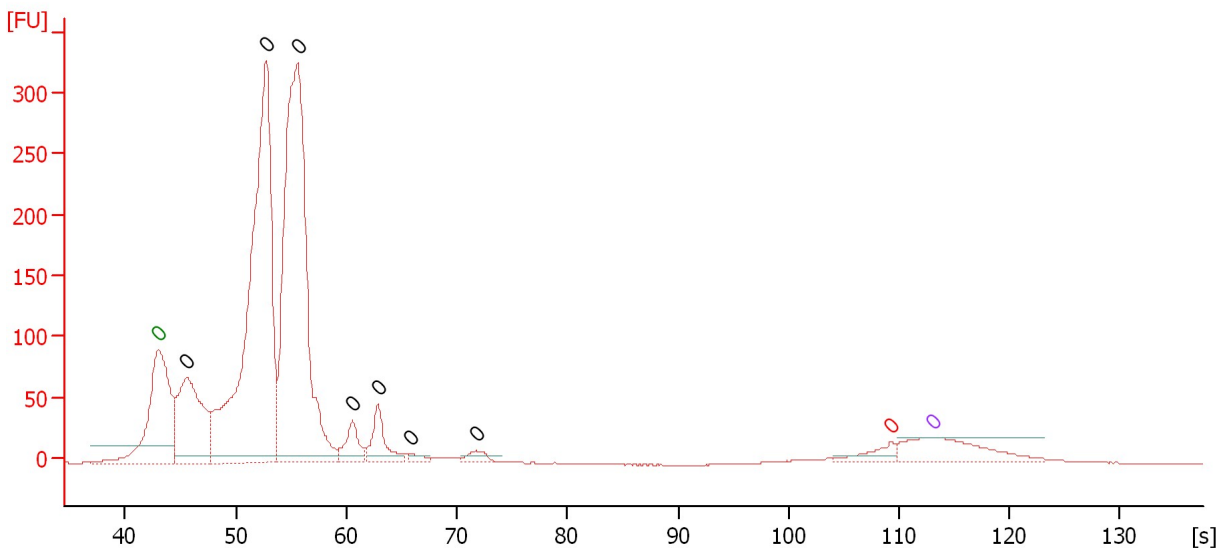
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	59.90
2	0	0.00	0.0		61.75
3	0	0.00	0.0		67.35
4	0	0.00	0.0		70.10
5	0	0.00	0.0		73.50
6	0	0.00	0.0		75.45
7	0	0.00	0.0		77.15
8	0	0.00	0.0		78.75
9	0	0.00	0.0		80.55
10	0	0.00	0.0		82.90

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
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**Electropherogram Summary Continued ...**

sample 18



**Overall Results for sample 7 : sample 18**

Number of peaks found: 7                      Noise: 0.2

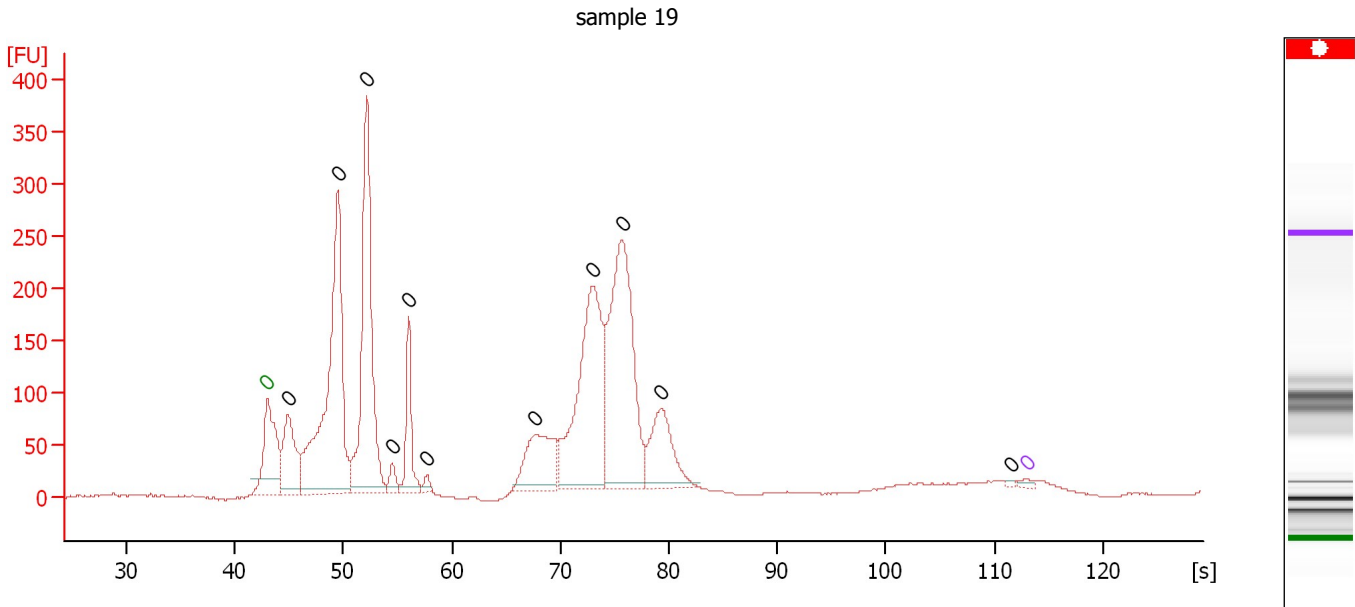
**Peak table for sample 7 : sample 18**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		45.58
3	0	0.00	0.0		52.75
4	0	0.00	0.0		55.63
5	0	0.00	0.0		60.57
6	0	0.00	0.0		62.86
7	0	0.00	0.0		65.89
8	0	0.00	0.0		71.80
9	0	0.00	0.0	excluded peak	109.31
10	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
 Modified: 1/29/2015 10:47:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 19**

Number of peaks found: 11                      Noise: 0.5

**Peak table for sample 8 : sample 19**

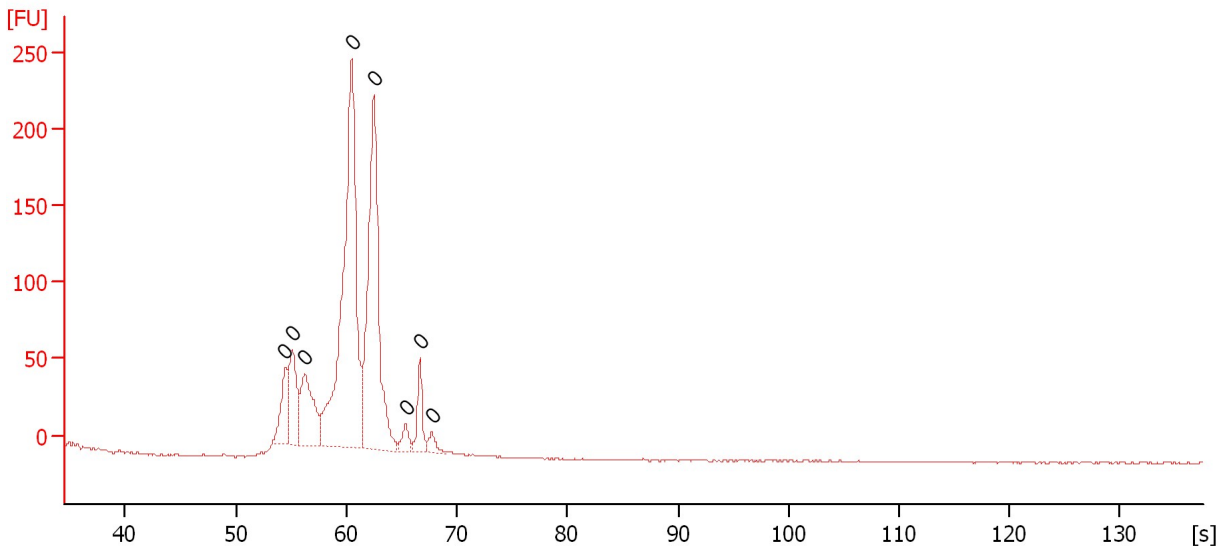
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	43.00
2	0	0.00	0.0		44.93
3	0	0.00	0.0		49.53
4	0	0.00	0.0		52.16
5	0	0.00	0.0		54.53
6	0	0.00	0.0		56.02
7	0	0.00	0.0		57.70
8	0	0.00	0.0		67.65
9	0	0.00	0.0		73.00
10	0	0.00	0.0		75.67
11	0	0.00	0.0		79.34
12	0	0.00	0.0		111.56
13	0	0.00	0.0	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
Modified: 1/29/2015 10:47:11 AM

**Electropherogram Summary Continued ...**

sample 20



**Overall Results for sample 9 : sample 20**

Number of peaks found: 0                      Noise: 0.5

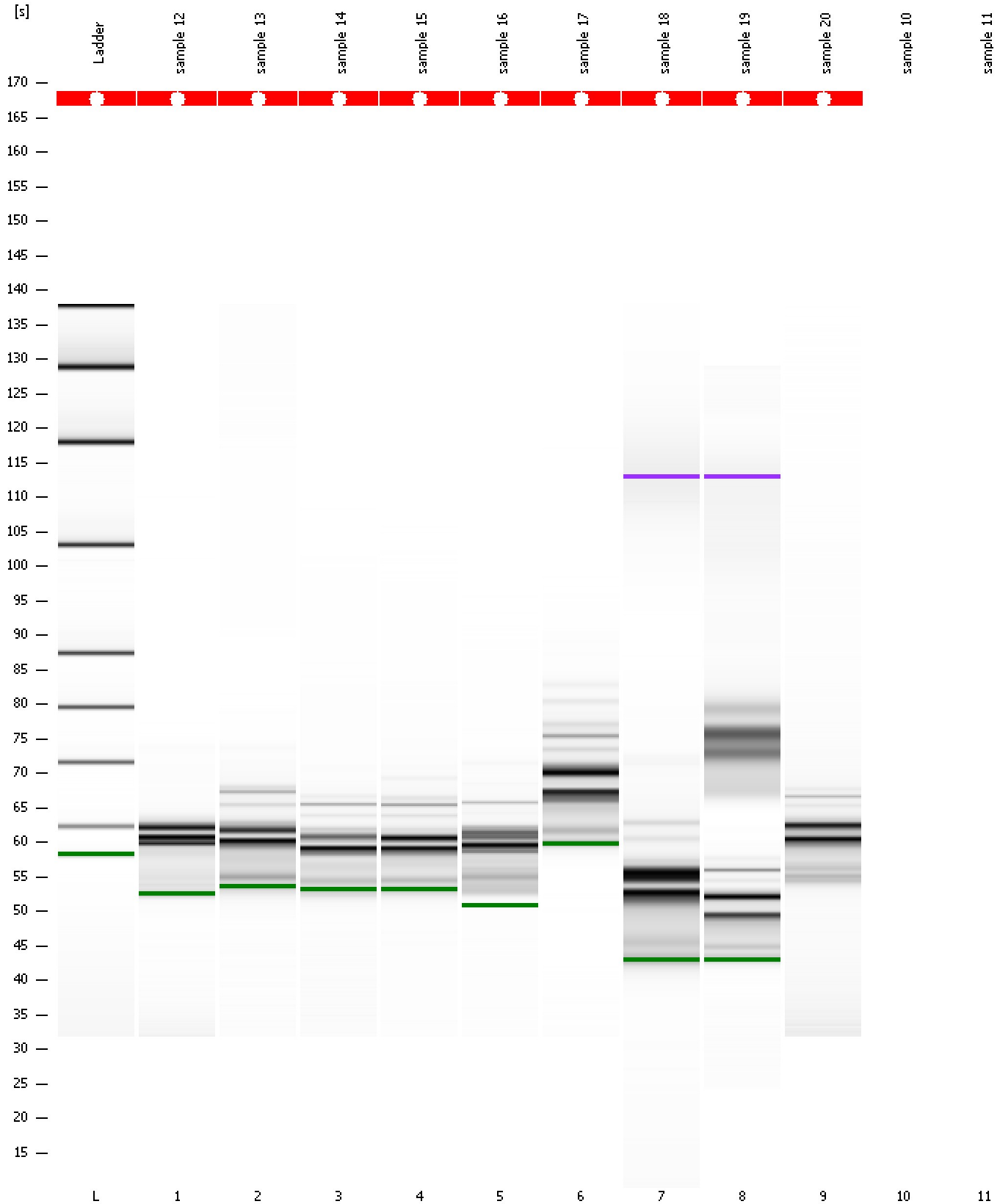
**Peak table for sample 9 : sample 20**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		54.50
2	0	0.00	0.0		55.15
3	0	0.00	0.0		56.25
4	0	0.00	0.0		60.50
5	0	0.00	0.0		62.50
6	0	0.00	0.0		65.40
7	0	0.00	0.0		66.70
8	0	0.00	0.0		67.75

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
Modified: 1/29/2015 10:47:11 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
Modified: 1/29/2015 10:47:11 AM

**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-29\2015-01-29\_002.xad

Created: 1/29/2015 10:11:34 AM  
 Modified: 1/29/2015 10:47:11 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		1/29/2015 10:47:09 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-29\2015-01-29_002.xad)		Instrument	Run		1/29/2015 10:11:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/29/2015 10:11:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/29/2015 10:11:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/29/2015 10:11:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/29/2015 10:11:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/29/2015 10:11:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/29/2015 10:11:40 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1