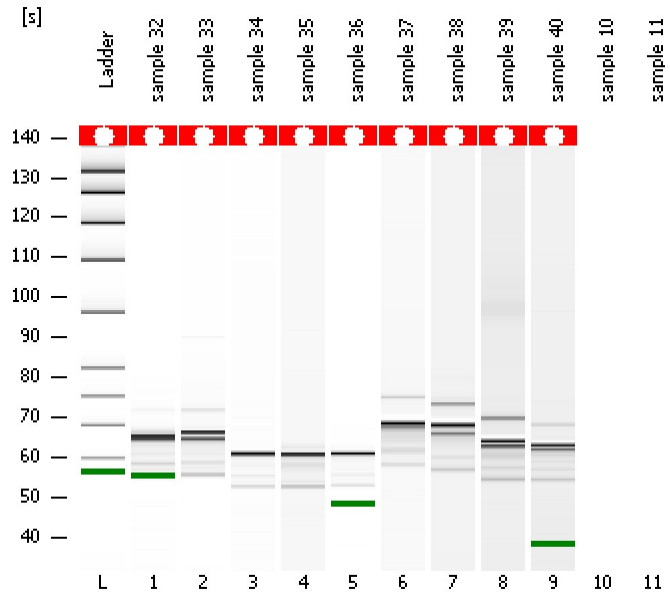


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
Modified: 1/28/2015 5:00:16 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

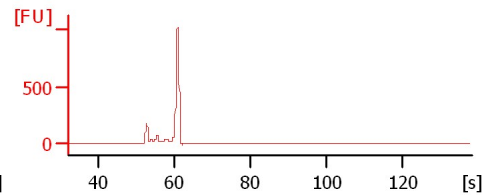
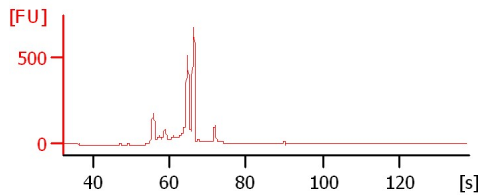
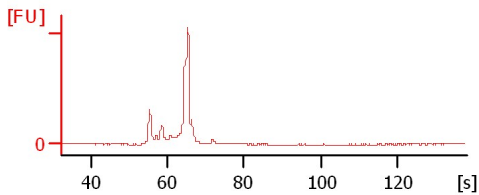
#### Chip Information:

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

sample 32

sample 33

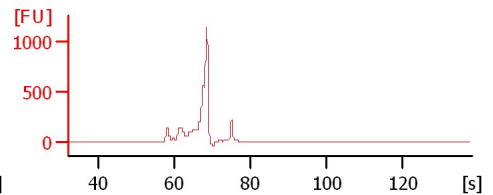
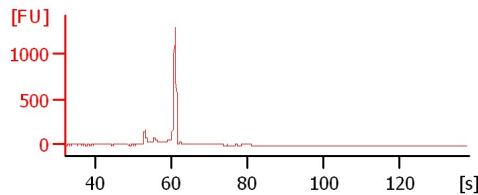
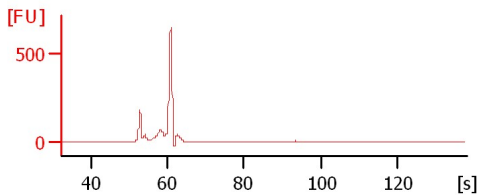
sample 34



sample 35

sample 36

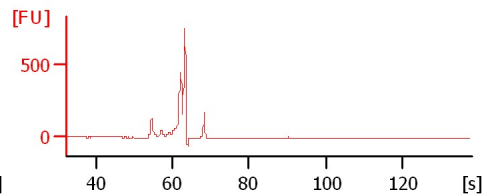
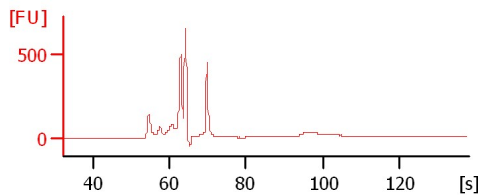
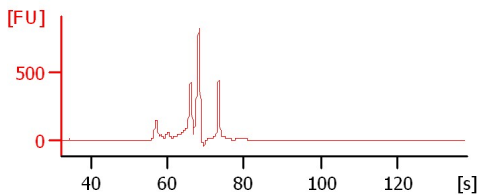
sample 37



sample 38

sample 39

sample 40



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
Modified: 1/28/2015 5:00:16 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 32		<input type="checkbox"/>	✓			
sample 33		<input type="checkbox"/>	✓			
sample 34		<input type="checkbox"/>	✓			
sample 35		<input type="checkbox"/>	✓			
sample 36		<input type="checkbox"/>	✓			
sample 37		<input type="checkbox"/>	✓			
sample 38		<input type="checkbox"/>	✓			
sample 39		<input type="checkbox"/>	✓			
sample 40		<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\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
Modified: 1/28/2015 5:00:16 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

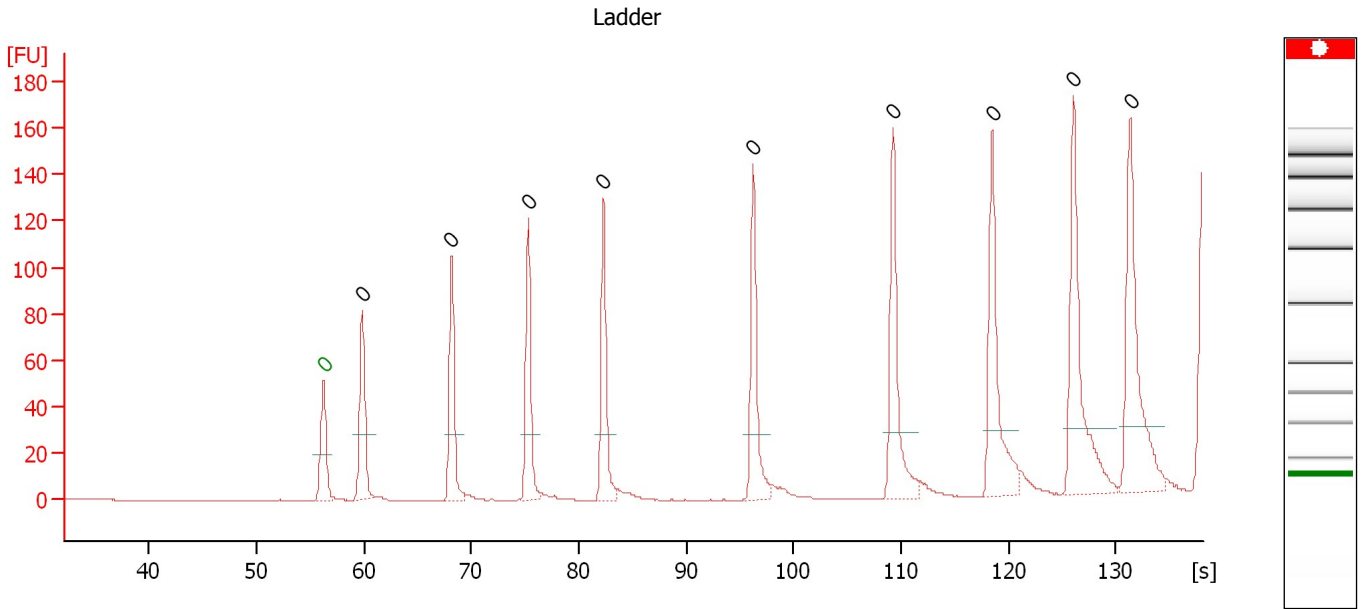
**Ladder**

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\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
 Modified: 1/28/2015 5:00:16 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

**Peak table for Ladder**

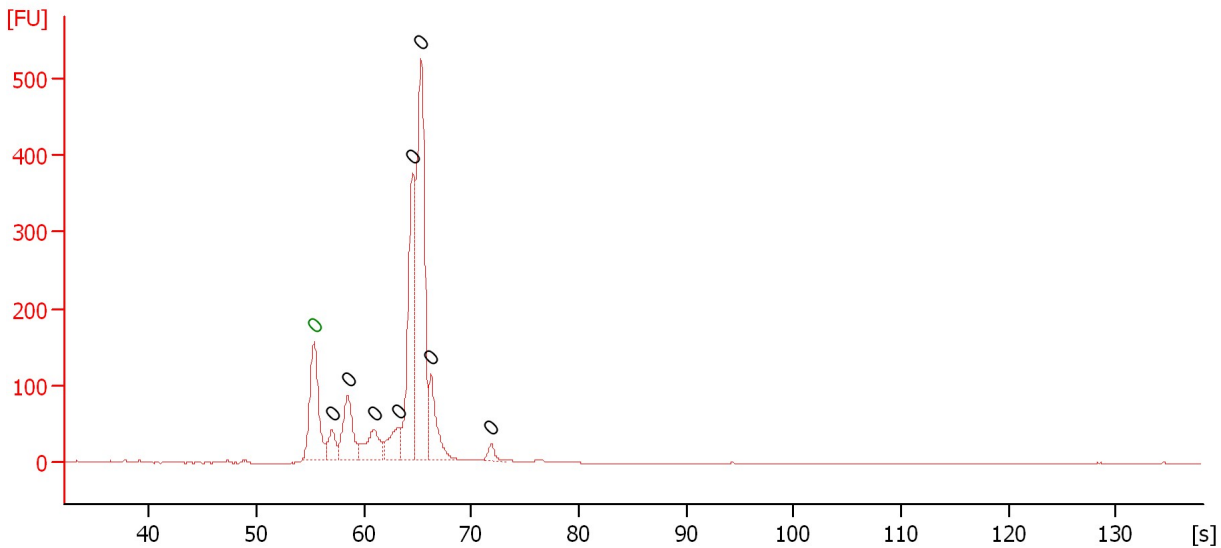
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	56.25
2	0	0.00	0.0	Ladder Peak	59.85
3	0	0.00	0.0	Ladder Peak	68.15
4	0	0.00	0.0	Ladder Peak	75.30
5	0	0.00	0.0	Ladder Peak	82.30
6	0	0.00	0.0	Ladder Peak	96.25
7	0	0.00	0.0	Ladder Peak	109.25
8	0	0.00	0.0	Ladder Peak	118.50
9	0	0.00	0.0	Ladder Peak	126.05
10	0	0.00	0.0	Ladder Peak	131.35

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
 Modified: 1/28/2015 5:00:16 PM

**Electropherogram Summary Continued ...**

sample 32



**Overall Results for sample 1 : sample 32**

Number of peaks found: 8                      Noise: 0.2

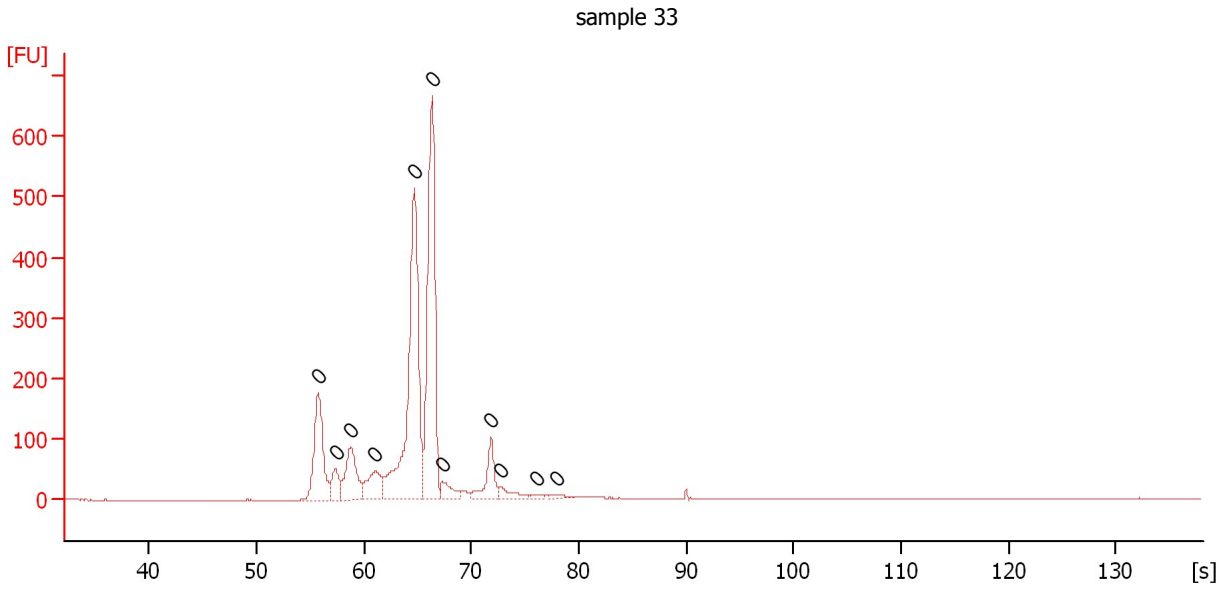
**Peak table for sample 1 : sample 32**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	55.35
2	0	0.00	0.0		57.00
3	0	0.00	0.0		58.50
4	0	0.00	0.0		60.90
5	0	0.00	0.0		63.20
6	0	0.00	0.0		64.55
7	0	0.00	0.0		65.30
8	0	0.00	0.0		66.25
9	0	0.00	0.0		71.85

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
Modified: 1/28/2015 5:00:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 33**

Number of peaks found: 0                      Noise: 0.2

**Peak table for sample 2 : sample 33**

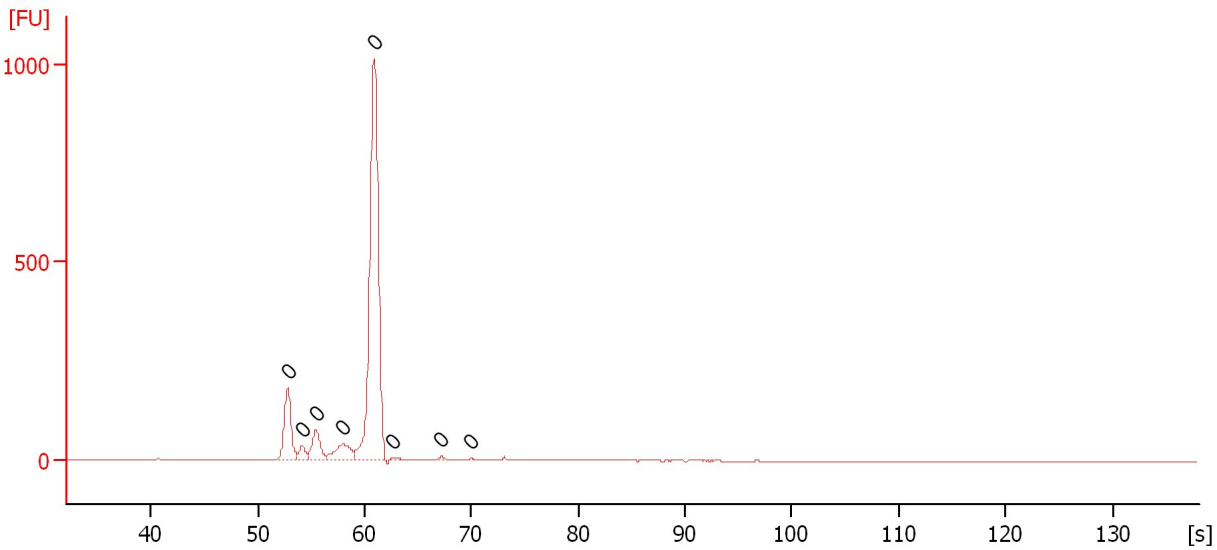
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		55.75
2	0	0.00	0.0		57.35
3	0	0.00	0.0		58.80
4	0	0.00	0.0		61.05
5	0	0.00	0.0		64.70
6	0	0.00	0.0		66.35
7	0	0.00	0.0		67.30
8	0	0.00	0.0		71.80
9	0	0.00	0.0		72.75
10	0	0.00	0.0		76.00
11	0	0.00	0.0		77.85

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
Modified: 1/28/2015 5:00:16 PM

**Electropherogram Summary Continued ...**

sample 34



**Overall Results for sample 3 : sample 34**

Number of peaks found: 0                      Noise: 0.2

**Peak table for sample 3 : sample 34**

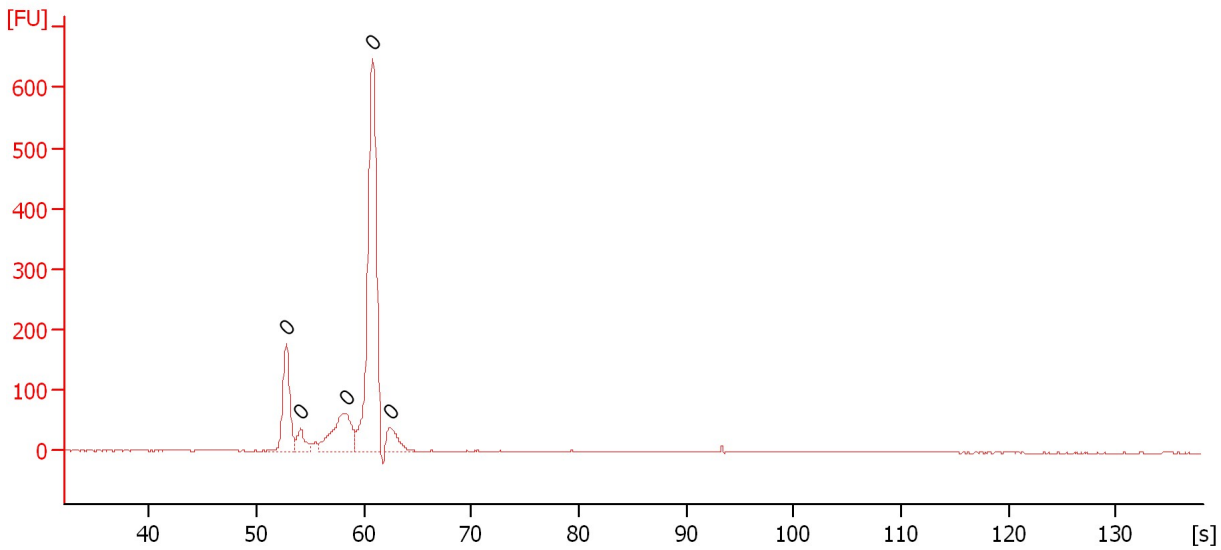
Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		52.80
2	0	0.00	0.0		54.15
3	0	0.00	0.0		55.45
4	0	0.00	0.0		58.00
5	0	0.00	0.0		60.95
6	0	0.00	0.0		62.70
7	0	0.00	0.0		67.20
8	0	0.00	0.0		70.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
Modified: 1/28/2015 5:00:16 PM

**Electropherogram Summary Continued ...**

sample 35



**Overall Results for sample 4 : sample 35**

Number of peaks found: 0                      Noise: 0.2

**Peak table for sample 4 : sample 35**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		52.80
2	0	0.00	0.0		54.10
3	0	0.00	0.0		58.30
4	0	0.00	0.0		60.80
5	0	0.00	0.0		62.45

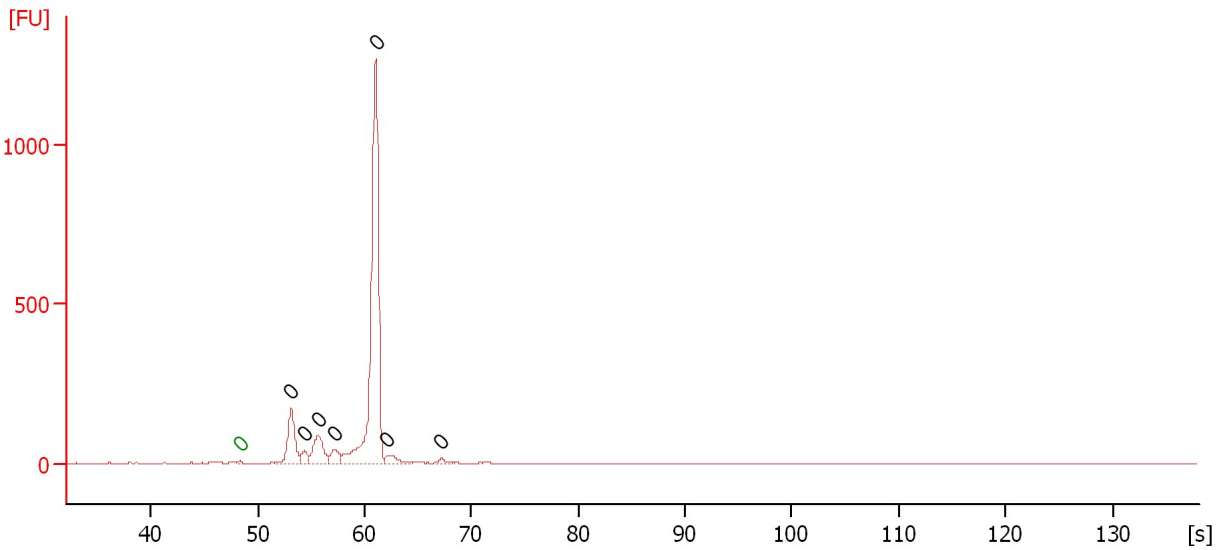


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
Modified: 1/28/2015 5:00:16 PM

**Electropherogram Summary Continued ...**

sample 36



**Overall Results for sample 5 : sample 36**

Number of peaks found: 7                      Noise: 0.2

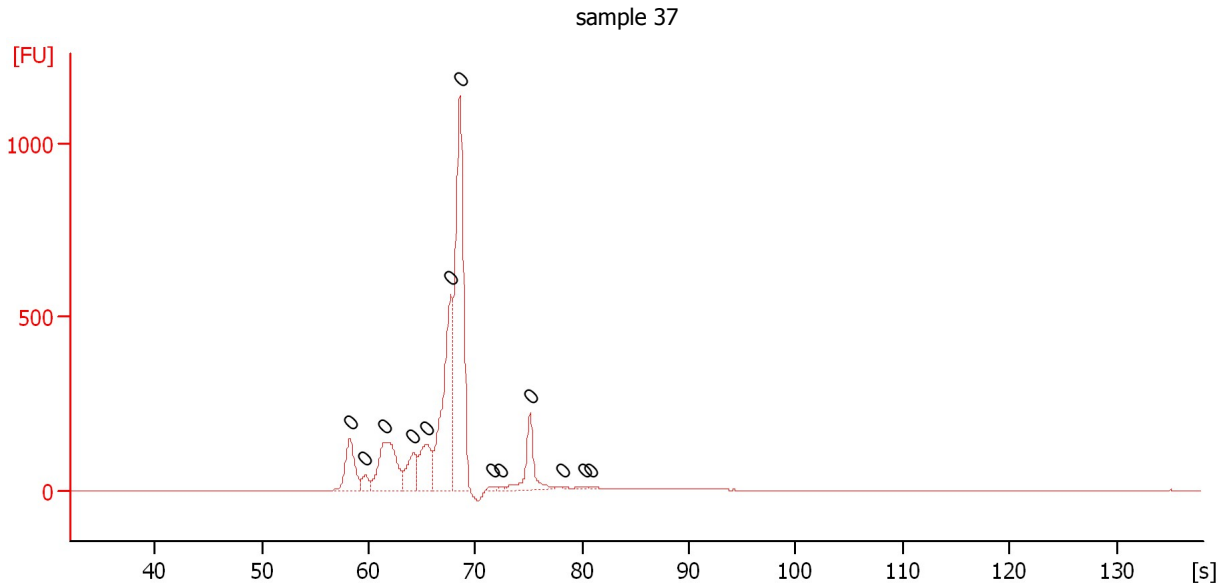
**Peak table for sample 5 : sample 36**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	48.35
2	0	0.00	0.0		53.15
3	0	0.00	0.0		54.40
4	0	0.00	0.0		55.70
5	0	0.00	0.0		57.20
6	0	0.00	0.0		61.05
7	0	0.00	0.0		62.15
8	0	0.00	0.0		67.20

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
 Modified: 1/28/2015 5:00:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 37**

Number of peaks found: 0                      Noise: 0.2

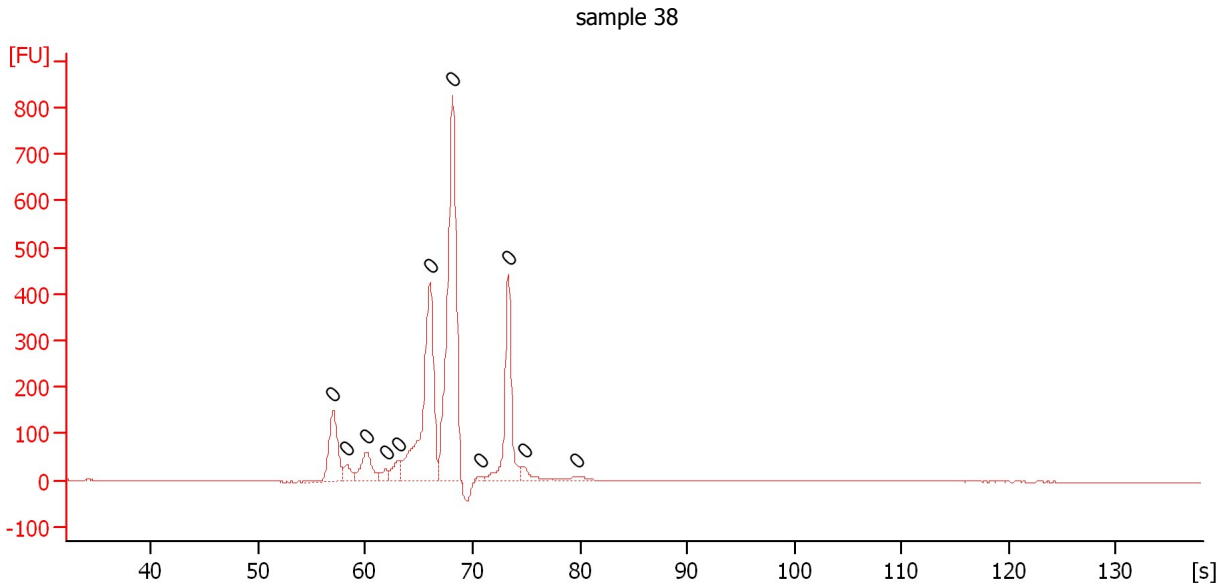
**Peak table for sample 6 : sample 37**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		58.25
2	0	0.00	0.0		59.70
3	0	0.00	0.0		61.50
4	0	0.00	0.0		64.20
5	0	0.00	0.0		65.40
6	0	0.00	0.0		67.70
7	0	0.00	0.0		68.55
8	0	0.00	0.0		71.60
9	0	0.00	0.0		72.40
10	0	0.00	0.0		75.10
11	0	0.00	0.0		78.20
12	0	0.00	0.0		80.25
13	0	0.00	0.0		80.75

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
Modified: 1/28/2015 5:00:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 38**

Number of peaks found: 0                      Noise: 0.2

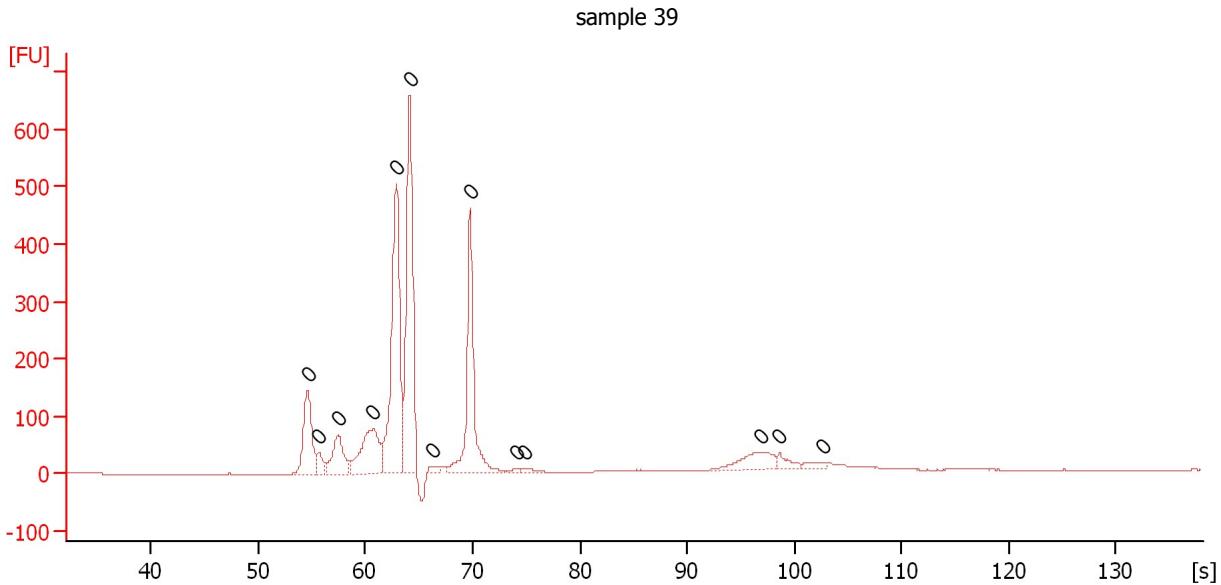
**Peak table for sample 7 : sample 38**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		57.00
2	0	0.00	0.0		58.25
3	0	0.00	0.0		60.10
4	0	0.00	0.0		61.90
5	0	0.00	0.0		63.10
6	0	0.00	0.0		66.05
7	0	0.00	0.0		68.15
8	0	0.00	0.0		70.75
9	0	0.00	0.0		73.30
10	0	0.00	0.0		74.80
11	0	0.00	0.0		79.65

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
 Modified: 1/28/2015 5:00:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 39**

Number of peaks found: 0                      Noise: 0.2

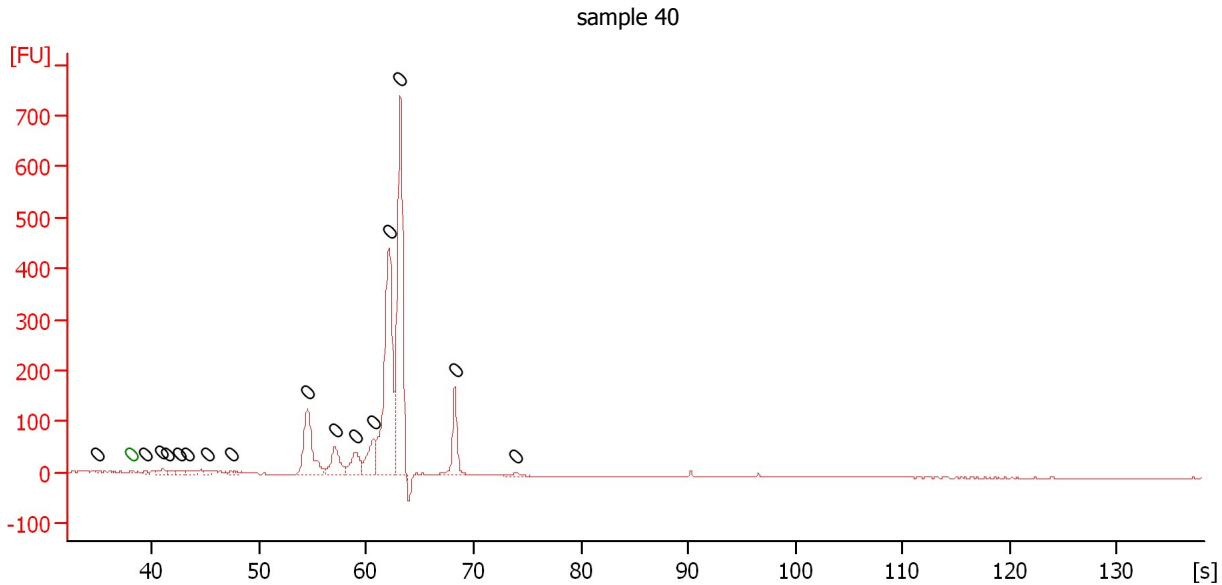
**Peak table for sample 8 : sample 39**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		54.60
2	0	0.00	0.0		55.65
3	0	0.00	0.0		57.45
4	0	0.00	0.0		60.75
5	0	0.00	0.0		62.90
6	0	0.00	0.0		64.15
7	0	0.00	0.0		66.20
8	0	0.00	0.0		69.75
9	0	0.00	0.0		74.05
10	0	0.00	0.0		74.85
11	0	0.00	0.0		96.95
12	0	0.00	0.0		98.65
13	0	0.00	0.0		102.65

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
 Modified: 1/28/2015 5:00:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 40**

Number of peaks found: 16                      Noise: 0.3

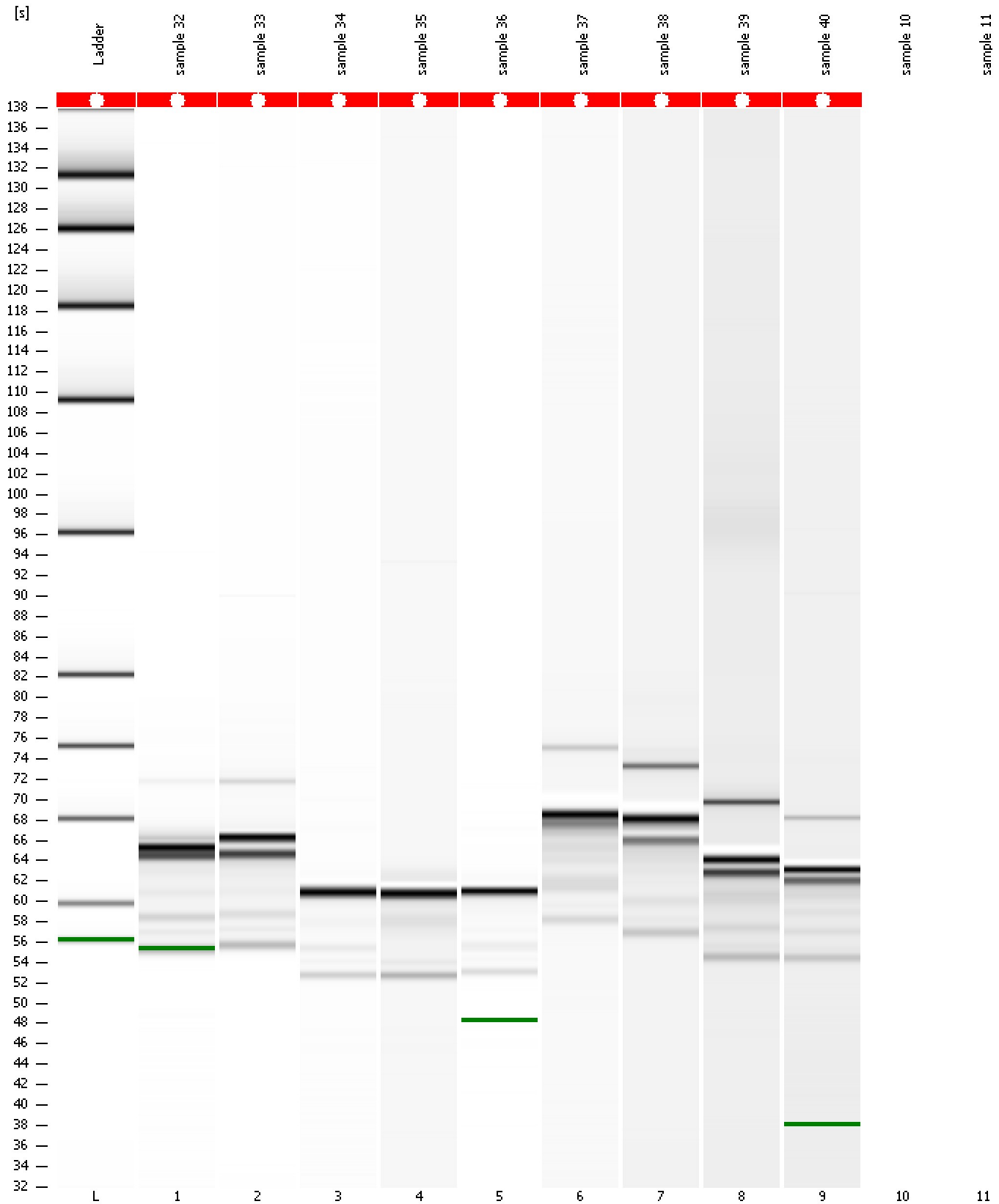
**Peak table for sample 9 : sample 40**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		34.90
2	0	0.00	0.0	Lower Marker	38.15
3	0	0.00	0.0		39.30
4	0	0.00	0.0		40.95
5	0	0.00	0.0		41.50
6	0	0.00	0.0		42.50
7	0	0.00	0.0		43.35
8	0	0.00	0.0		45.25
9	0	0.00	0.0		47.40
10	0	0.00	0.0		54.50
11	0	0.00	0.0		57.10
12	0	0.00	0.0		59.00
13	0	0.00	0.0		60.65
14	0	0.00	0.0		62.15
15	0	0.00	0.0		63.15
16	0	0.00	0.0		68.25
17	0	0.00	0.0		73.90

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
Modified: 1/28/2015 5:00:16 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
Modified: 1/28/2015 5:00:16 PM

**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\2015-01-28\2015-01-28\_005.xad

Created: 1/28/2015 4:24:40 PM  
 Modified: 1/28/2015 5:00:16 PM

**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		1/28/2015 5:00:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-28\2015-01-28_005.xad)		Instrument	Run		1/28/2015 4:24:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/28/2015 4:24:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/28/2015 4:24:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/28/2015 4:24:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/28/2015 4:24:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/28/2015 4:24:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/28/2015 4:24:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1