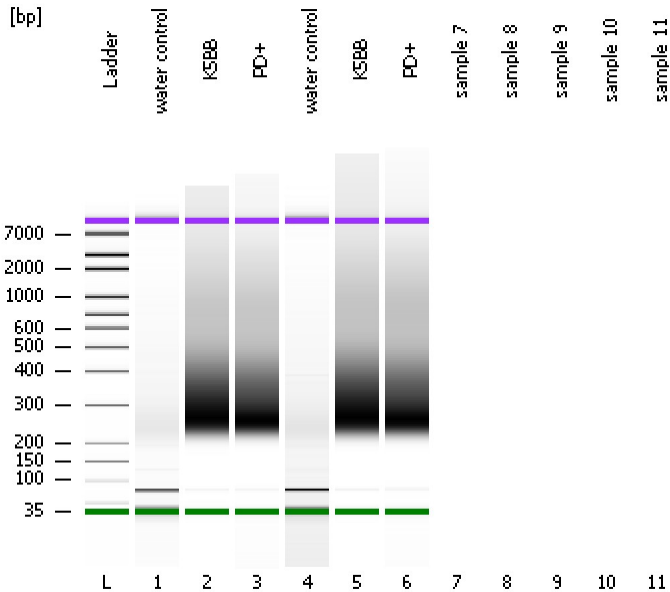


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
Modified: 10/1/2014 10:34:32 AM

Electrophoresis File Run Summary



Instrument Information:

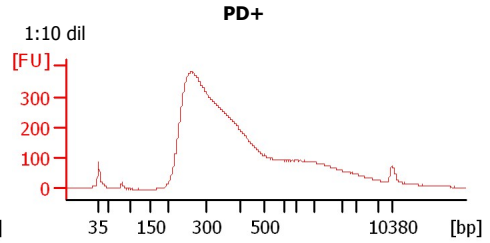
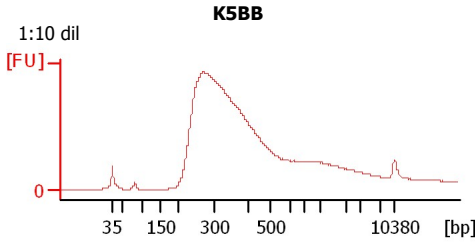
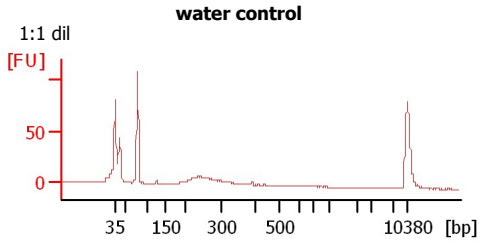
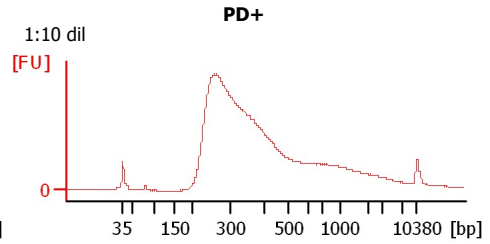
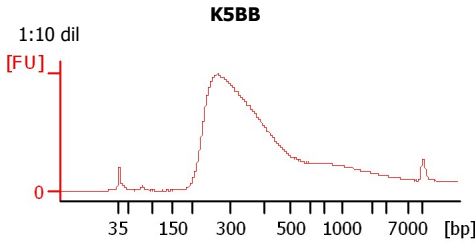
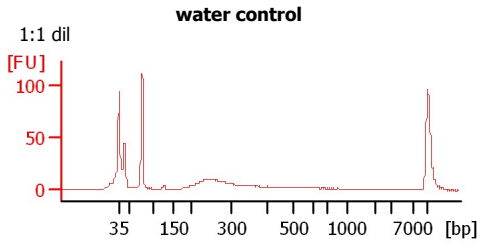
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
 Modified: 10/1/2014 10:34:32 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
water control	1:1 dil	<input type="checkbox"/>	✓			
K5BB	1:10 dil	<input type="checkbox"/>	✓			
PD+	1:10 dil	<input type="checkbox"/>	✓			
water control	1:1 dil	<input type="checkbox"/>	✓			
K5BB	1:10 dil	<input type="checkbox"/>	✓			
PD+	1:10 dil	<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<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\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
Modified: 10/1/2014 10:34:32 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

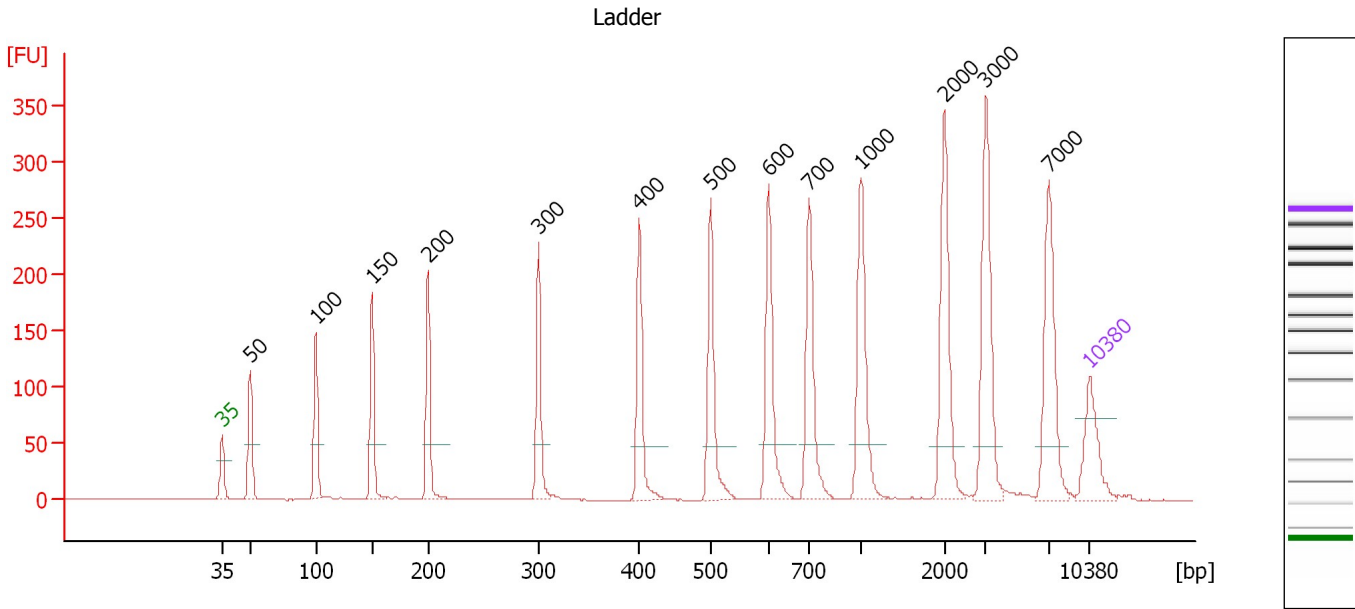
Ladder

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\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
 Modified: 10/1/2014 10:34:32 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

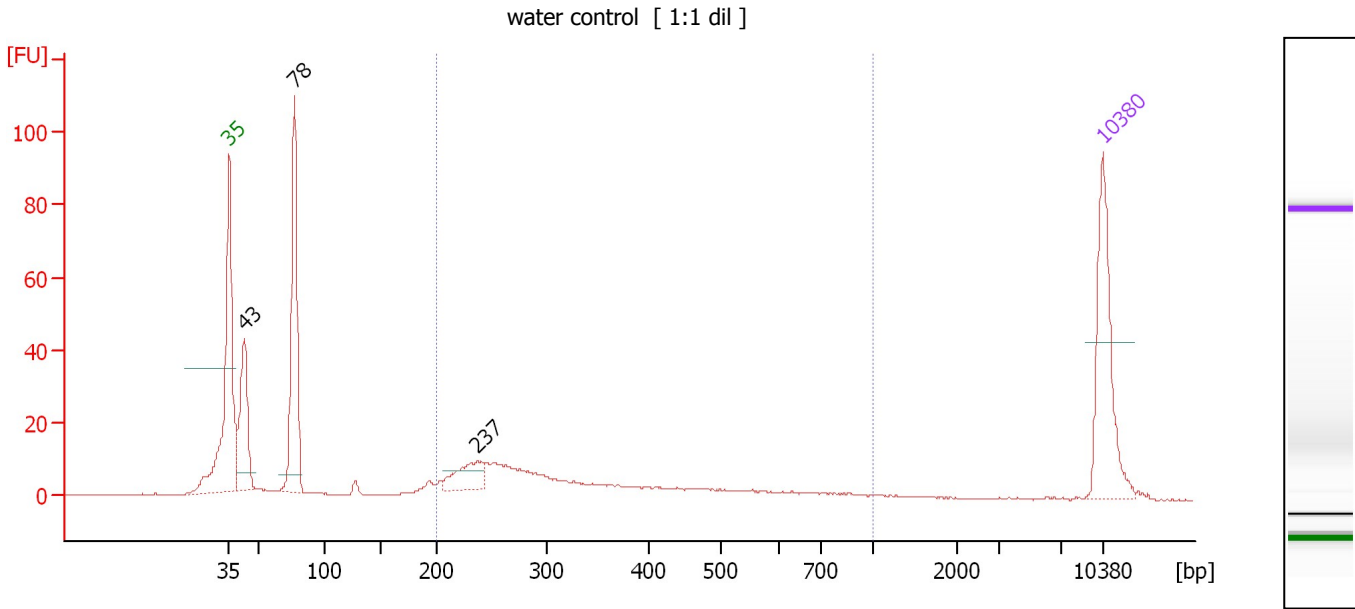
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
 Modified: 10/1/2014 10:34:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : water control

Number of peaks found: 3 Corr. Area 1: 197.4
 Noise: 0.2

Peak table for sample 1 : water control

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	104.13	3,680.7	
3	78	181.98	3,549.4	
4	237	38.52	246.3	
5	10,380	75.00	10.9	Upper Marker

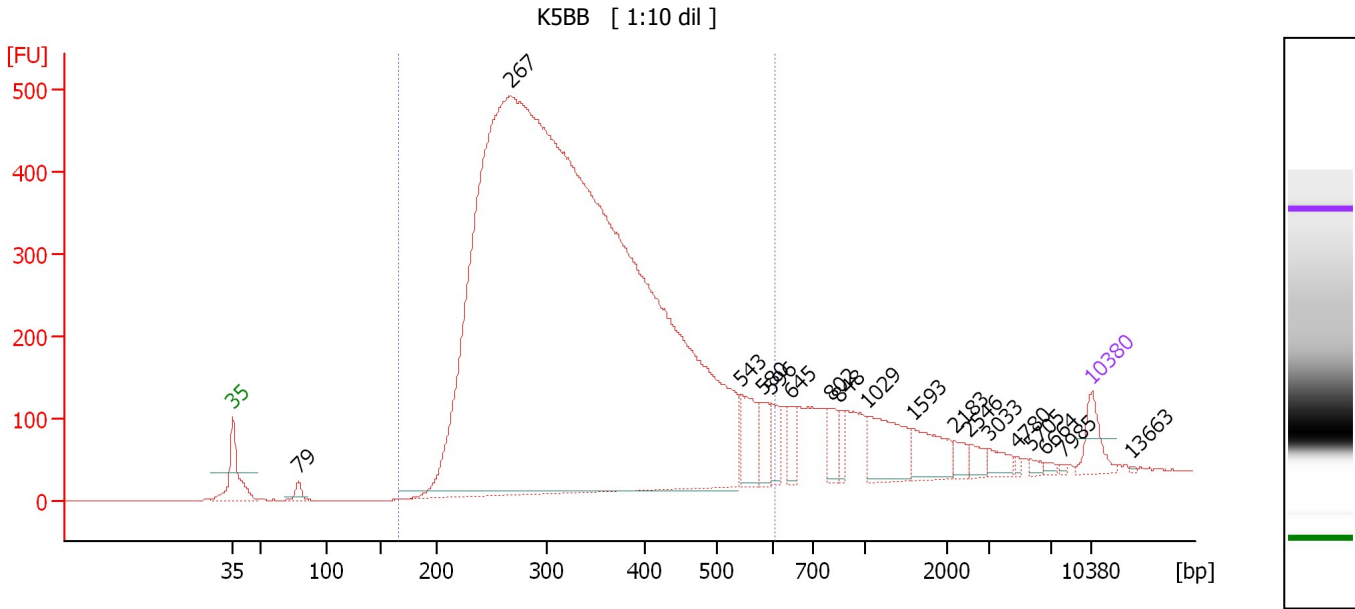
Region table for sample 1 : water control

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	355	1,000	197.4	43	43.1	215.38	1,097.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
 Modified: 10/1/2014 10:34:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : K5BB

Number of peaks found: 18 Corr. Area 1: 10,702.5
 Noise: 0.1

Peak table for sample 2 : K5BB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	36.70	704.0	
3	267	11,242.47	63,705.6	
4	543	167.30	466.7	
5	580	80.99	211.5	
6	596	69.08	175.6	
7	645	63.47	149.1	
8	802	66.72	126.1	
9	848	41.26	73.7	
10	1,029	197.97	291.4	
11	1,593	124.24	118.2	
12	2,183	31.73	22.0	
13	2,546	34.34	20.4	
14	3,033	39.24	19.6	
15	4,780	8.12	2.6	
16	5,705	12.23	3.2	
17	6,664	9.92	2.3	
18	7,985	4.96	0.9	
19	10,380	75.00	10.9	Upper Marker
20	13,663	0.00	0.0	

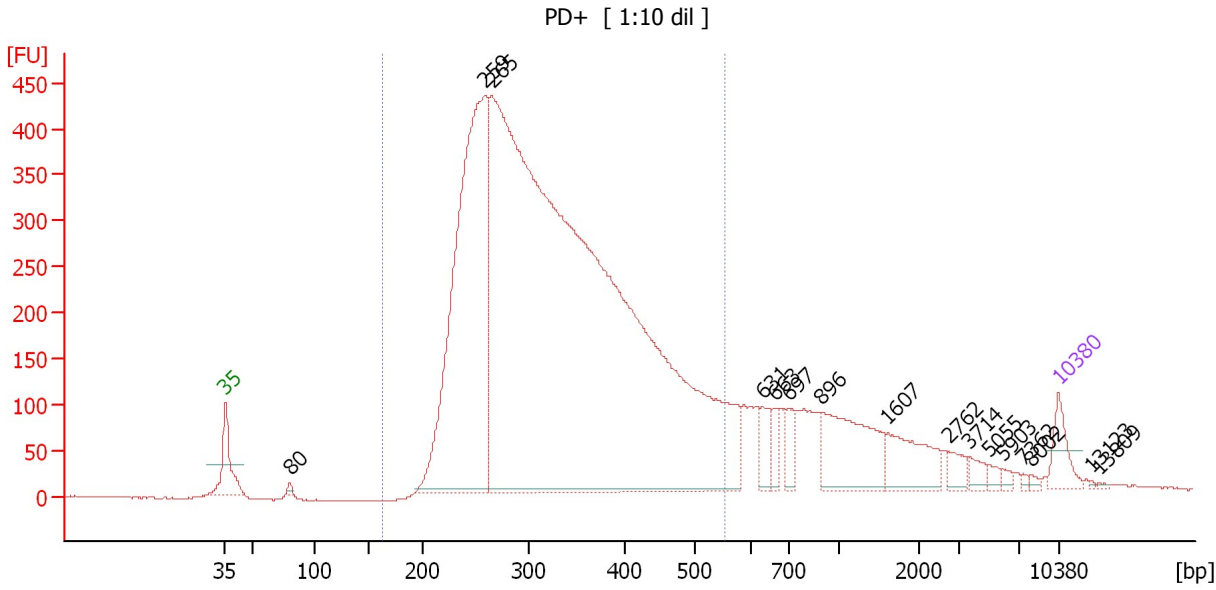
Region table for sample 2 : K5BB

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
165	339	605	10,702.5	88	26.1	9,985.08	48,550.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
 Modified: 10/1/2014 10:34:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : PD+

Number of peaks found: 16 Corr. Area 1: 8,889.5
 Noise: 0.7

Peak table for sample 3 : PD+

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	13.61	258.8	
3	259	2,158.04	12,644.9	
4	265	7,493.18	42,822.6	
5	631	79.83	191.6	
6	663	47.05	107.5	
7	697	68.18	148.2	
8	896	320.26	541.3	
9	1,607	166.24	156.8	
10	2,762	38.78	21.3	
11	3,714	31.80	13.0	
12	5,055	15.76	4.7	
13	5,903	14.30	3.7	
14	7,362	6.16	1.3	
15	8,002	8.79	1.7	
16	10,380	75.00	10.9	Upper Marker
17	13,123	0.00	0.0	
18	13,809	0.00	0.0	

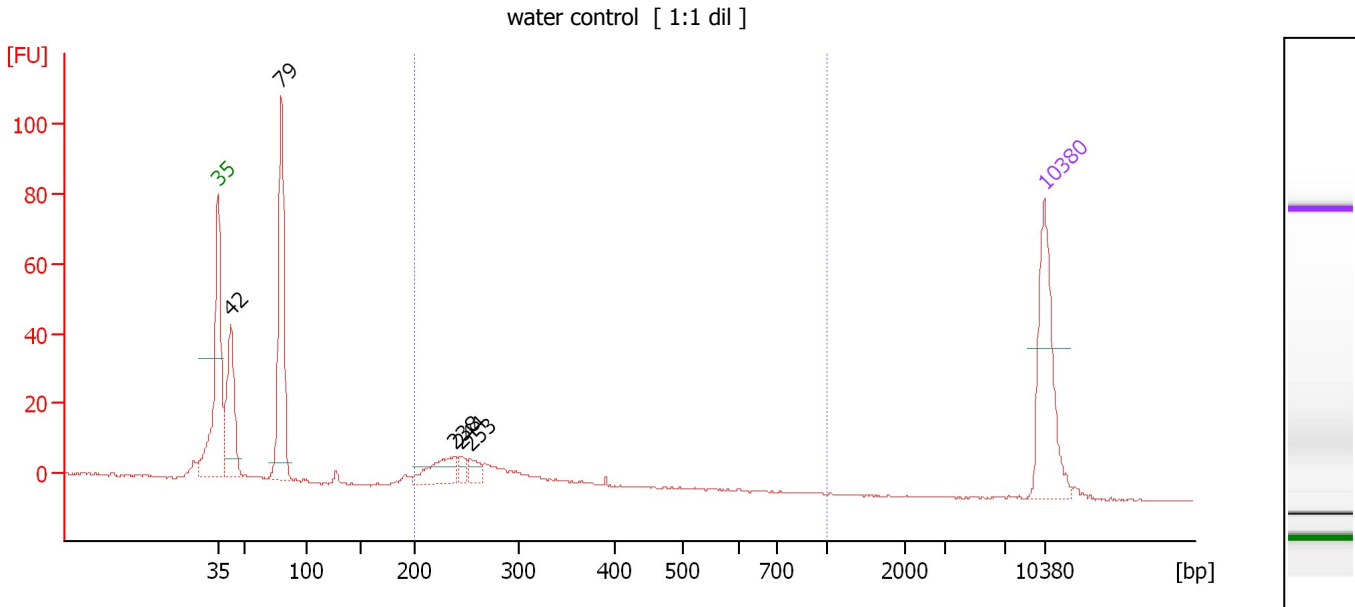
Region table for sample 3 : PD+

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
163	330	555	8,889.5	83	24.4	8,347.20	41,295.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
 Modified: 10/1/2014 10:34:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : water control

Number of peaks found: 5 Corr. Area 1: 92.9
 Noise: 0.2

Peak table for sample 4 : water control

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	114.22	4,107.6	
3	79	188.90	3,612.3	
4	238	39.31	250.1	
5	244	9.45	58.7	
6	253	13.49	80.6	
7	10,380	75.00	10.9	Upper Marker

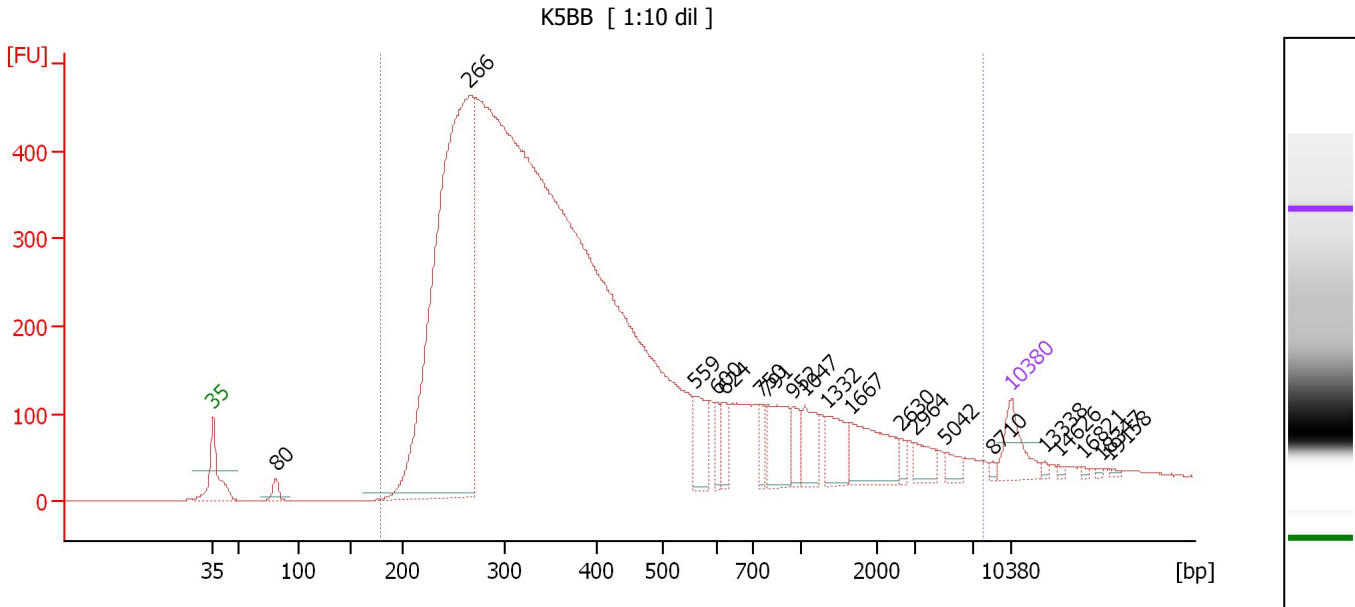
Region table for sample 4 : water control

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	271	1,000	92.9	29	18.9	109.19	629.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
 Modified: 10/1/2014 10:34:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : K5BB

Number of peaks found: 20 Corr. Area 1: 11,806.5
 Noise: 0.1

Peak table for sample 5 : K5BB

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	34.09	644.5	
3	266	2,219.39	12,638.3	
4	559	112.92	306.0	
5	600	43.60	110.1	
6	624	46.60	113.1	
7	750	40.76	82.3	
8	791	135.14	259.0	
9	952	52.82	84.1	
10	1,047	78.36	113.4	
11	1,332	92.05	104.7	
12	1,667	145.09	131.9	
13	2,630	15.21	8.8	
14	2,964	41.49	21.2	
15	5,042	25.25	7.6	
16	8,710	6.97	1.2	
17	10,380	75.00	10.9	Upper Marker
18	13,338	0.00	0.0	
19	14,626	0.00	0.0	
20	16,821	0.00	0.0	
21	18,347	0.00	0.0	
22	19,158	0.00	0.0	

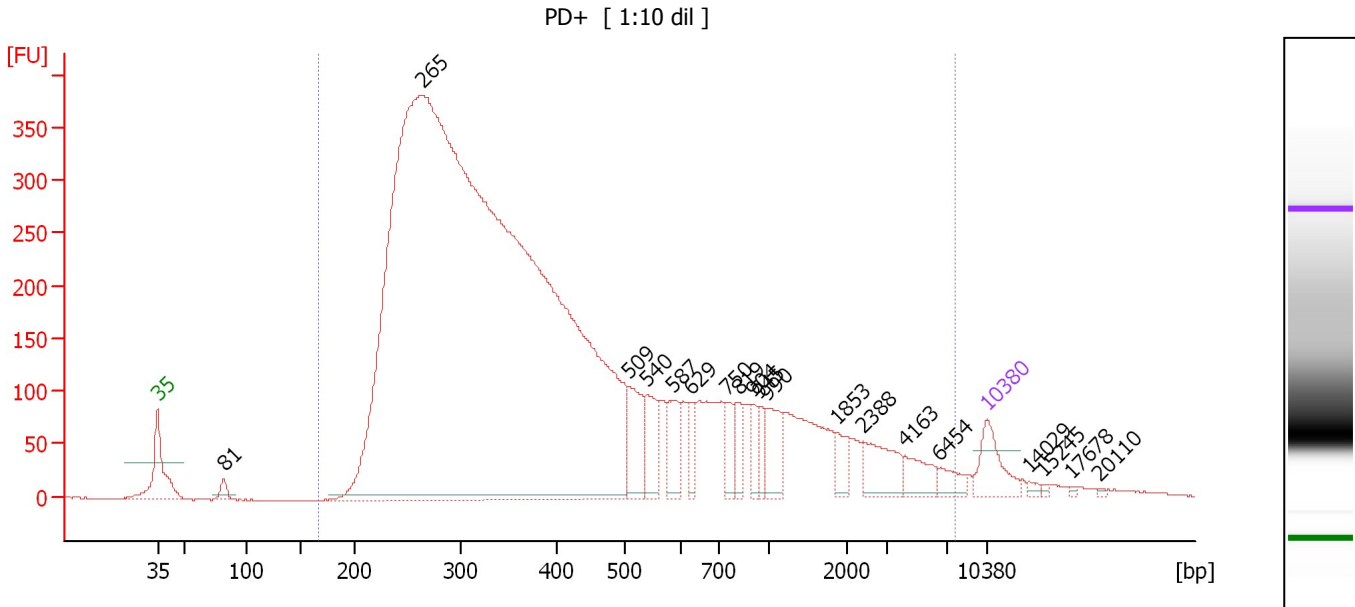
Region table for sample 5 : K5BB

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
178	583	7,855	11,806.4	99	100.0	8,674.64	38,778.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
 Modified: 10/1/2014 10:34:32 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : PD+

Number of peaks found: 19 Corr. Area 1: 9,586.6
 Noise: 0.6

Peak table for sample 6 : PD+

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	30.77	574.3	
3	265	7,698.84	43,989.9	
4	509	139.19	414.6	
5	540	99.95	280.3	
6	587	85.80	221.5	
7	629	47.26	113.8	
8	750	56.38	113.9	
9	819	50.43	93.4	
10	904	43.85	73.5	
11	945	38.94	62.4	
12	990	90.34	138.3	
13	1,853	42.31	34.6	
14	2,388	93.94	59.6	
15	4,163	54.20	19.7	
16	6,454	33.48	7.9	
17	10,380	75.00	10.9	Upper Marker
18	14,029	0.00	0.0	
19	15,245	0.00	0.0	
20	17,678	0.00	0.0	
21	20,110	0.00	0.0	

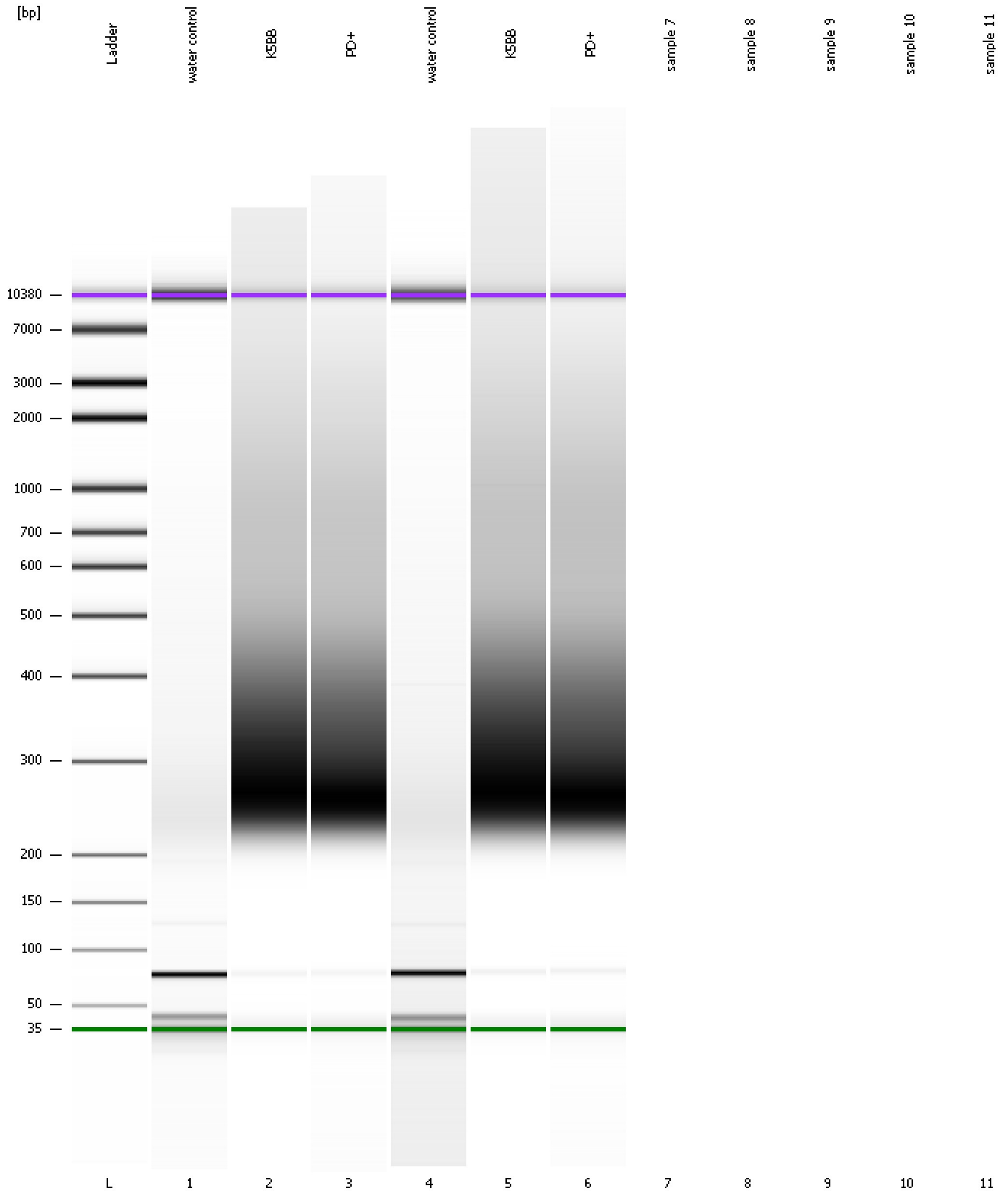
Region table for sample 6 : PD+

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
166	620	7,582	9,586.6	99	100.0	8,135.19	36,073.8	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
Modified: 10/1/2014 10:34:32 AM

Gel Image

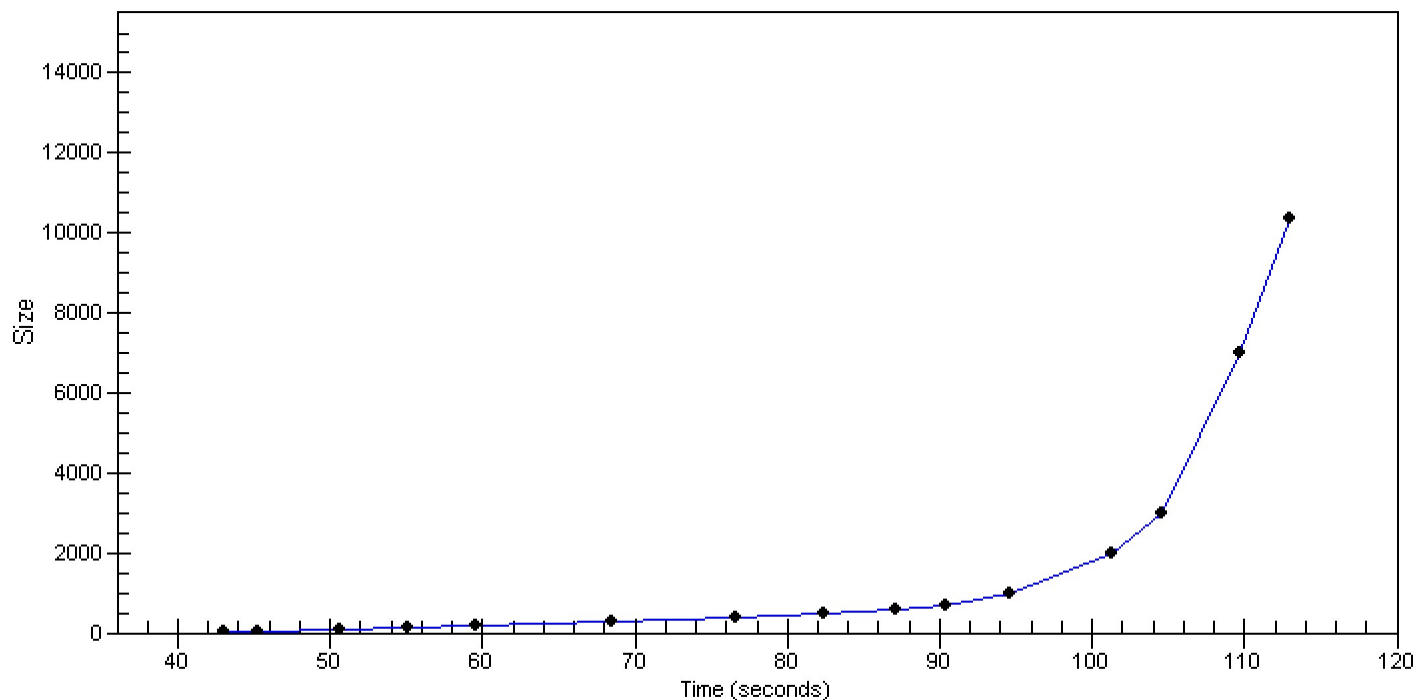


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
Modified: 10/1/2014 10:34:32 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
Modified: 10/1/2014 10:34:32 AM

Invalid Samples

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

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\2014-10-01\2014-10-01_001.xad

Created: 10/1/2014 10:06:22 AM
 Modified: 10/1/2014 10:34:32 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		10/1/2014 10:33:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-01\2014-10-01_001.xad)		Instrument	Run		10/1/2014 10:06:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/1/2014 10:06:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/1/2014 10:06:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/1/2014 10:06:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/1/2014 10:06:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/1/2014 10:06:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/1/2014 10:06:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1