

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_002.xad

Created: 8/20/2014 11:59:47 AM
Modified: 8/20/2014 12:19:12 PM

Electrophoresis File Run Summary

Instrument Information:

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

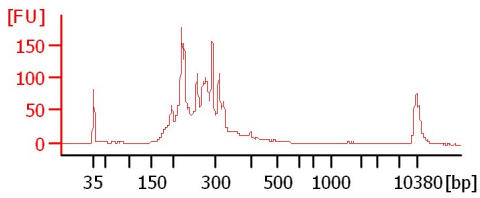
Assay Information:

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

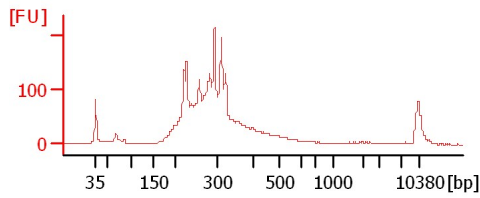
Chip Information:

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

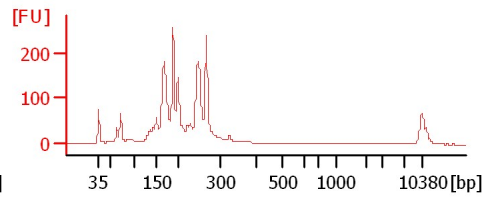
B-dot R017 lib (1:10)



B dist, no GI lib



HDV8/20



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
B-dot ROI7 lib (1:10)		<input type="checkbox"/>	✓			
B dist, no GI lib		<input type="checkbox"/>	✓			
HDV8/20		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>				
sample 5		<input type="checkbox"/>				
sample 6		<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 :

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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

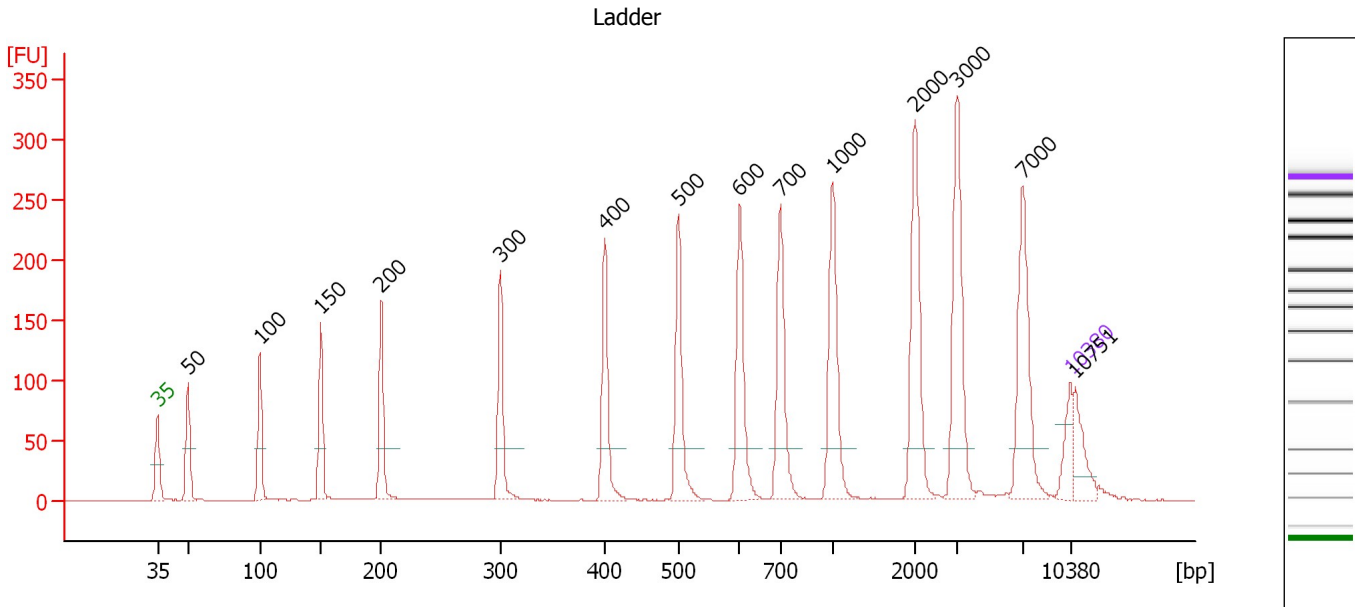
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

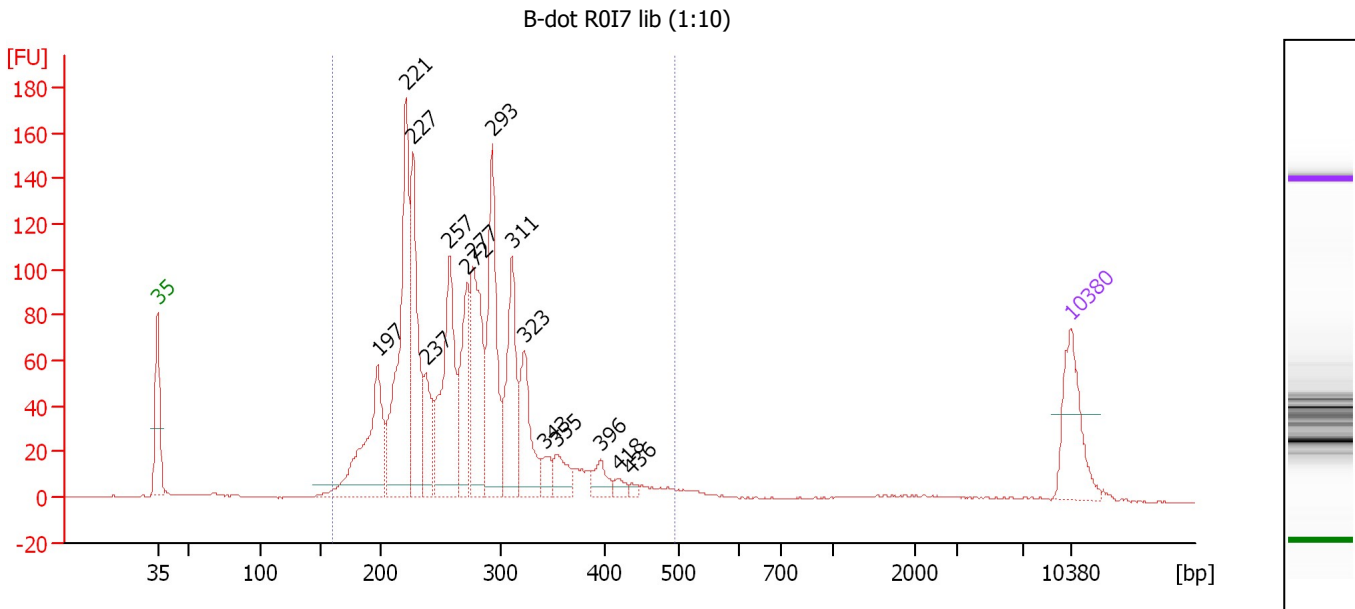
Peak table for Ladder

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
16	10,751	0.00	0.0	

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Electropherogram Summary Continued ...



Overall Results for sample 1 : B-dot R017 lib (1:10)

Number of peaks found: 15 Corr. Area 1: 1,692.3
 Noise: 0.2

Peak table for sample 1 : B-dot R017 lib (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	197	204.75	1,573.1	
3	221	320.78	2,199.9	
4	227	202.73	1,354.7	
5	237	73.31	467.9	
6	257	221.03	1,301.6	
7	272	122.86	684.8	
8	277	182.65	1,000.2	
9	293	207.42	1,072.0	
10	311	148.21	721.9	
11	323	98.08	460.4	
12	343	24.75	109.4	
13	355	34.91	149.2	
14	396	25.50	97.5	
15	418	11.16	40.4	
16	436	5.97	20.8	
17	10,380	75.00	10.9	Upper Marker

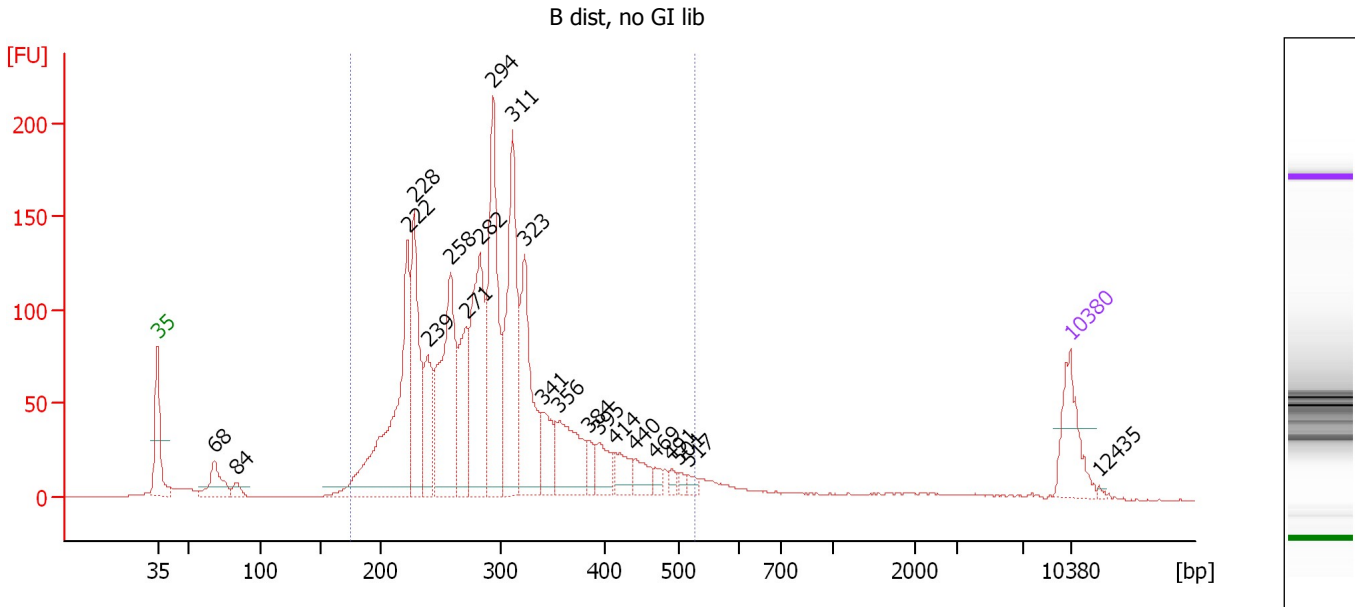
Region table for sample 1 : B-dot R017 lib (1:10)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
159	494	271	11,603.1	1,977.98	1,692.3	95	21.2

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Electropherogram Summary Continued ...



Overall Results for sample 2 : B dist, no GI lib

Number of peaks found: 22 Corr. Area 1: 2,313.8
 Noise: 0.3

Peak table for sample 2 : B dist, no GI lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	68	69.73	1,547.6	
3	84	19.84	359.0	
4	222	417.29	2,844.0	
5	228	223.86	1,489.7	
6	239	111.53	707.2	
7	258	301.12	1,768.3	
8	271	137.99	770.9	
9	282	274.58	1,472.8	
10	294	312.33	1,611.2	
11	311	293.03	1,426.1	
12	323	210.75	988.2	
13	341	66.02	293.3	
14	356	129.55	550.9	
15	384	23.56	92.9	
16	395	48.02	184.4	
17	414	41.25	151.1	
18	440	33.45	115.2	
19	469	12.32	39.8	
20	491	10.28	31.7	
21	501	8.98	27.1	
22	517	10.02	29.4	
23	10,380	75.00	10.9	Upper Marker
24	12,435	0.00	0.0	

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Electropherogram Summary Continued ...

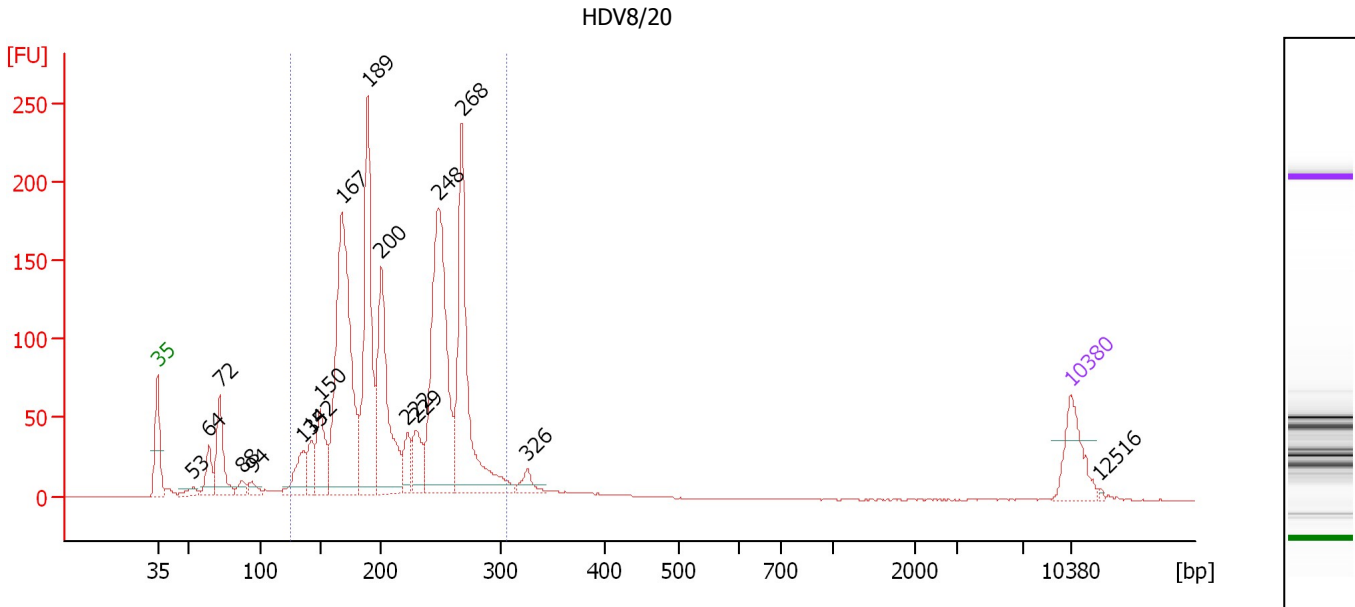
... Region table for sample 2 : B dist, no GI lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
175	527	296	14,861.9	2,739.69	 2,313.8	92	22.6

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Electropherogram Summary Continued ...



Overall Results for sample 3 : HDV8/20

Number of peaks found: 17 Corr. Area 1: 1,981.9
 Noise: 0.2

Peak table for sample 3 : HDV8/20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	20.17	573.6	
3	64	62.62	1,472.1	
4	72	140.01	2,949.6	
5	88	23.29	402.4	
6	94	23.71	380.8	
7	135	81.82	919.3	
8	142	60.09	640.4	
9	150	121.21	1,228.3	
10	167	657.09	5,951.5	
11	189	419.83	3,365.6	
12	200	332.83	2,516.9	
13	222	53.58	366.0	
14	229	75.10	496.3	
15	248	532.89	3,259.6	
16	268	418.01	2,366.5	
17	326	25.90	120.4	
18	10,380	75.00	10.9	Upper Marker
19	12,516	0.00	0.0	

Region table for sample 3 : HDV8/20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
125	305	213	21,319.5	2,828.52	1,981.9	87	20.2

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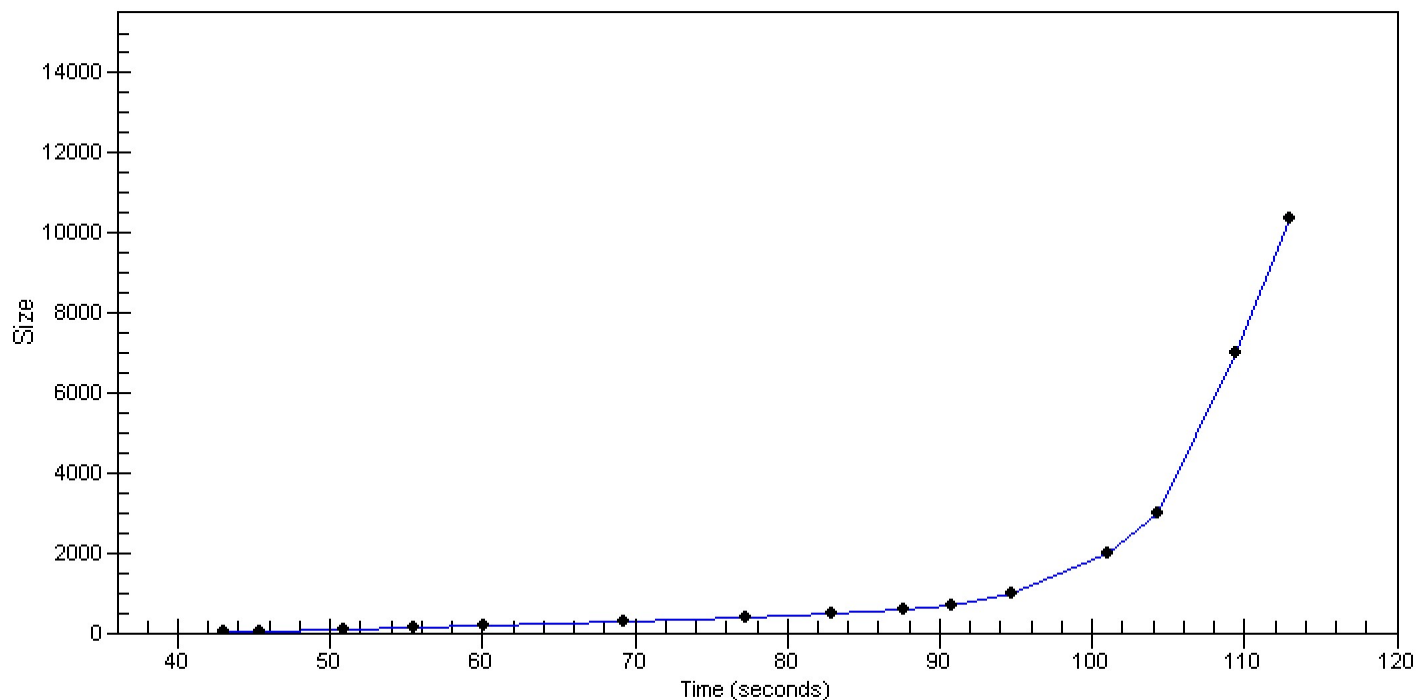
Gel Image

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Curves

Standard Curve



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Invalid Samples

Sample 4 has not been run, no results available.

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

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.

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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 4)		Instrument	Run		8/20/2014 12:18:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-08-20\2014-08-20_002.xad)		Instrument	Run		8/20/2014 11:59:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/20/2014 11:59:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/20/2014 11:59:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/20/2014 11:59:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/20/2014 11:59:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/20/2014 11:59:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/20/2014 11:59:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1