

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-14\2014-08-14_004.xad

Created: 8/14/2014 12:48:01 PM
Modified: 8/14/2014 1:25:46 PM

Electrophoresis File Run Summary

Instrument Information:

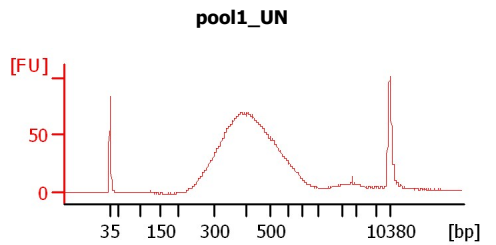
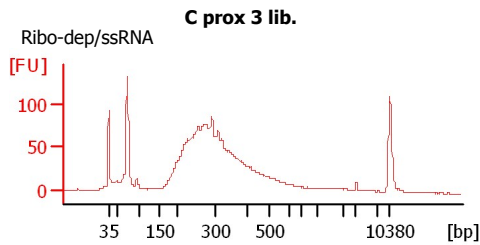
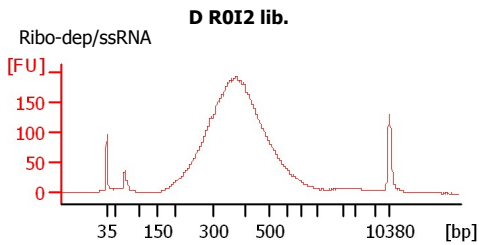
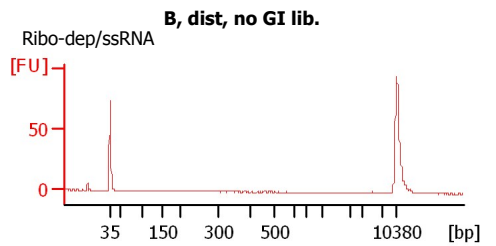
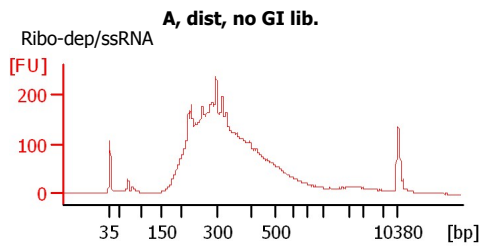
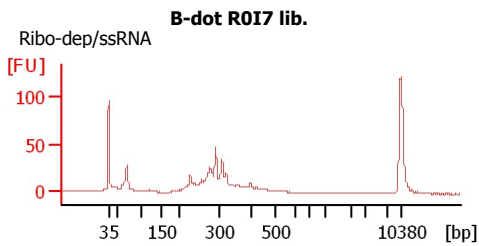
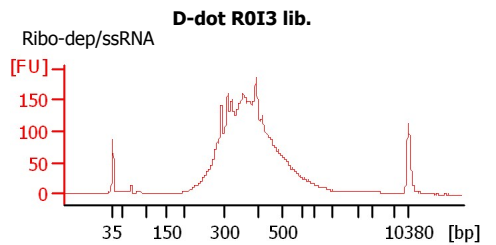
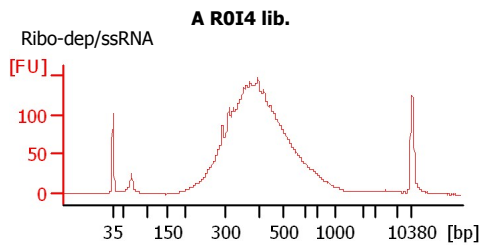
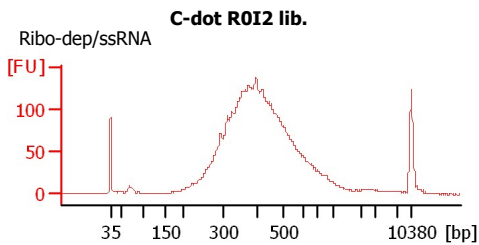
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-14\2014-08-14_004.xad

Created: 8/14/2014 12:48:01 PM
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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
C-dot ROI2 lib.	Ribo-dep/ssRNA	<input type="checkbox"/>	✓			
A ROI4 lib.	Ribo-dep/ssRNA	<input type="checkbox"/>	✓			
D-dot ROI3 lib.	Ribo-dep/ssRNA	<input type="checkbox"/>	✓			
B-dot ROI7 lib.	Ribo-dep/ssRNA	<input type="checkbox"/>	✓			
A, dist, no GI lib.	Ribo-dep/ssRNA	<input type="checkbox"/>	✓			
B, dist, no GI lib.	Ribo-dep/ssRNA	<input type="checkbox"/>	✓			
D ROI2 lib.	Ribo-dep/ssRNA	<input type="checkbox"/>	✓			
C prox 3 lib.	Ribo-dep/ssRNA	<input type="checkbox"/>	✓			
pool1_UN		<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

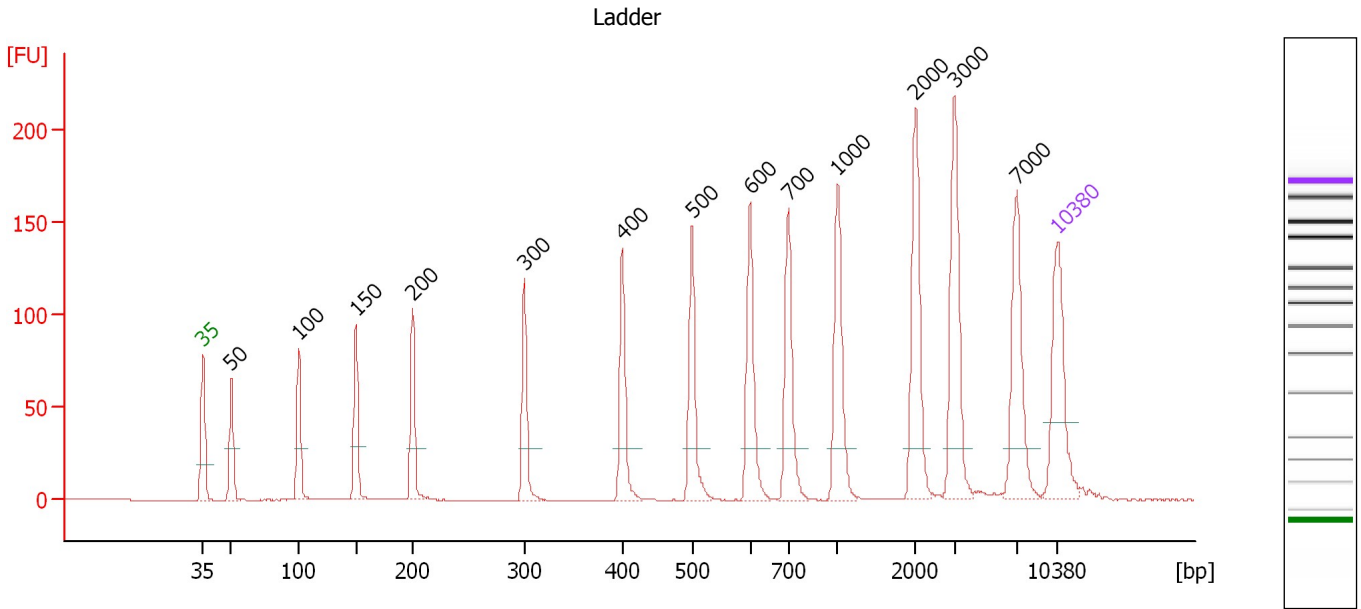
Ladder

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

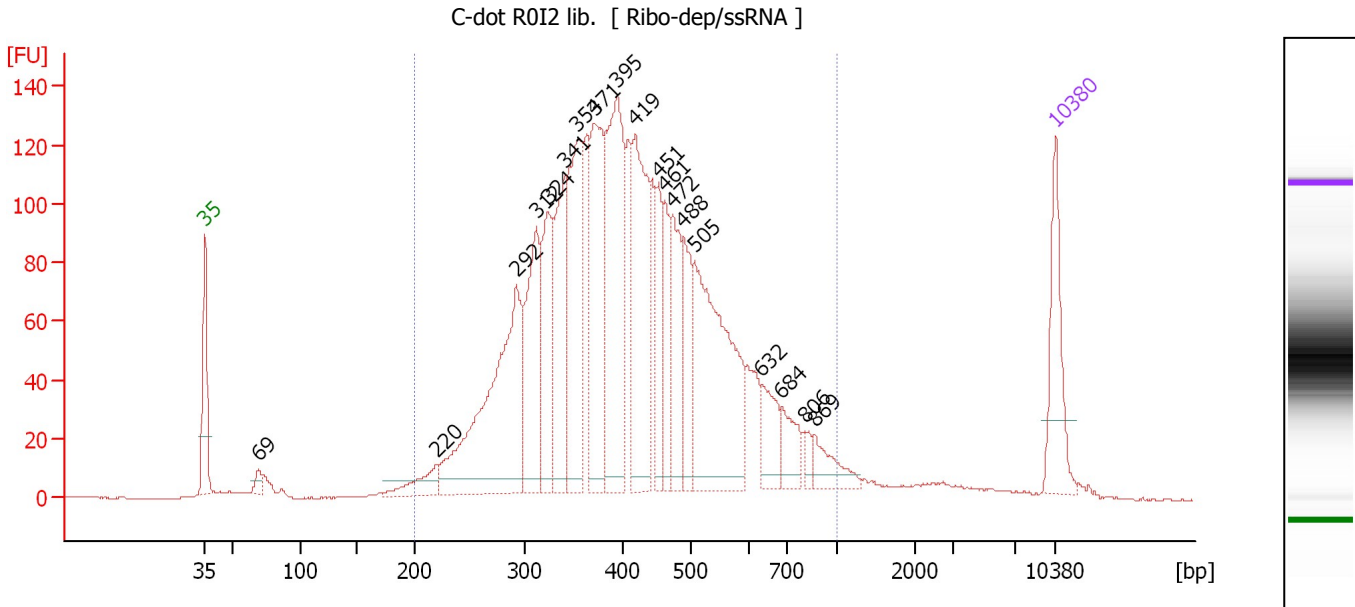
Peak table for Ladder

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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : C-dot R012 lib.

Number of peaks found: 19 Corr. Area 1: 3,044.6
 Noise: 0.3

Peak table for sample 1 : C-dot R012 lib.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	69	15.94	351.6	
3	220	43.17	297.2	
4	292	387.74	2,009.6	
5	312	175.31	852.6	
6	324	143.72	672.9	
7	341	163.75	727.2	
8	354	218.72	936.6	
9	371	202.74	827.1	
10	395	283.88	1,088.9	
11	419	215.32	778.4	
12	451	72.38	243.0	
13	461	67.71	222.4	
14	472	106.39	341.5	
15	488	82.69	256.6	
16	505	306.40	919.0	
17	632	52.12	124.9	
18	684	41.89	92.8	
19	806	12.93	24.3	
20	869	35.11	61.2	
21	10,380	75.00	10.9	Upper Marker

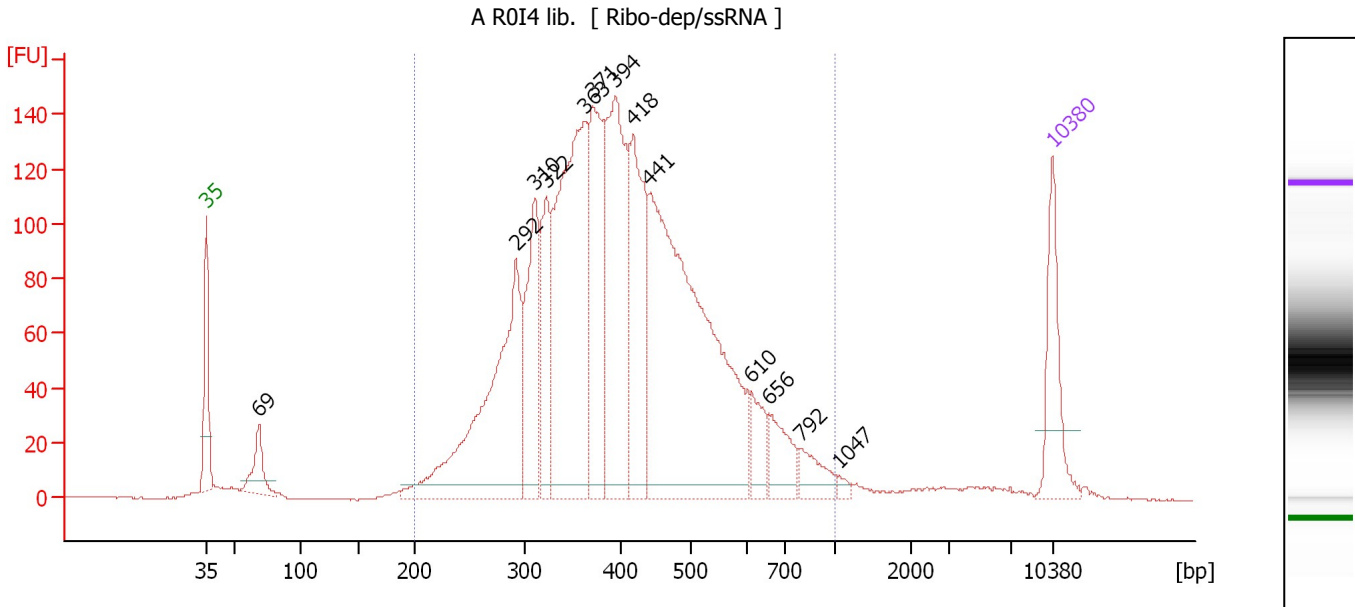
Region table for sample 1 : C-dot R012 lib.

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	426	11,998.5	3,023.86	3,044.6	95	30.1

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Electropherogram Summary Continued ...



Overall Results for sample 2 : A R0I4 lib.

Number of peaks found: 13 Corr. Area 1: 3,159.7
 Noise: 0.2

Peak table for sample 2 : A R0I4 lib.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	69	62.72	1,387.2	
3	292	414.00	2,145.9	
4	310	177.02	863.8	
5	322	127.96	601.9	
6	363	477.63	1,994.0	
7	371	219.99	899.2	
8	394	325.60	1,252.6	
9	418	219.01	794.6	
10	441	680.51	2,339.4	
11	610	40.27	100.0	
12	656	55.08	127.1	
13	792	36.09	69.0	
14	1,047	5.97	8.6	
15	10,380	75.00	10.9	Upper Marker

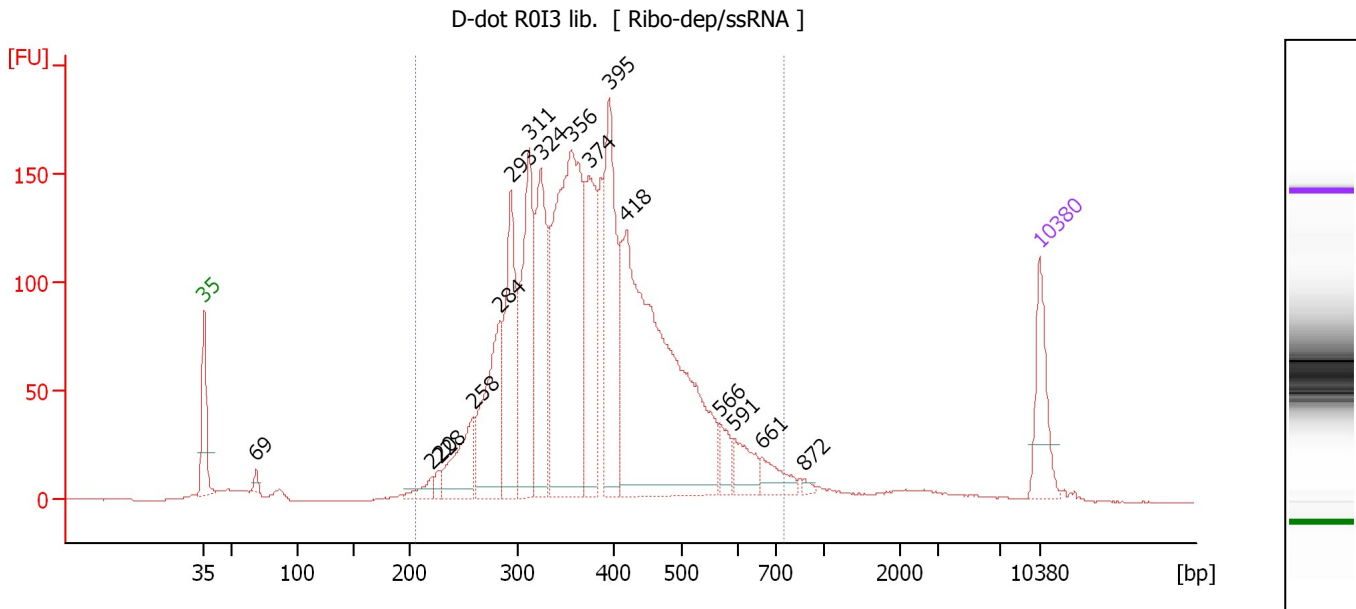
Region table for sample 2 : A R0I4 lib.

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	416	11,266.5	2,798.52	3,159.7	95	28.8

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 3 : D-dot R013 lib.

Number of peaks found: 16 Corr. Area 1: 3,229.8
 Noise: 0.2

Peak table for sample 3 : D-dot R013 lib.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	69	14.84	327.8	
3	220	29.56	203.2	
4	228	16.22	108.0	
5	258	125.51	736.0	
6	284	233.90	1,249.2	
7	293	246.37	1,272.1	
8	311	297.90	1,449.1	
9	324	262.09	1,226.4	
10	356	642.07	2,735.4	
11	374	226.99	919.4	
12	395	288.92	1,107.3	
13	418	804.52	2,912.9	
14	566	38.06	101.8	
15	591	52.69	135.2	
16	661	40.50	92.8	
17	872	5.78	10.0	
18	10,380	75.00	10.9	Upper Marker

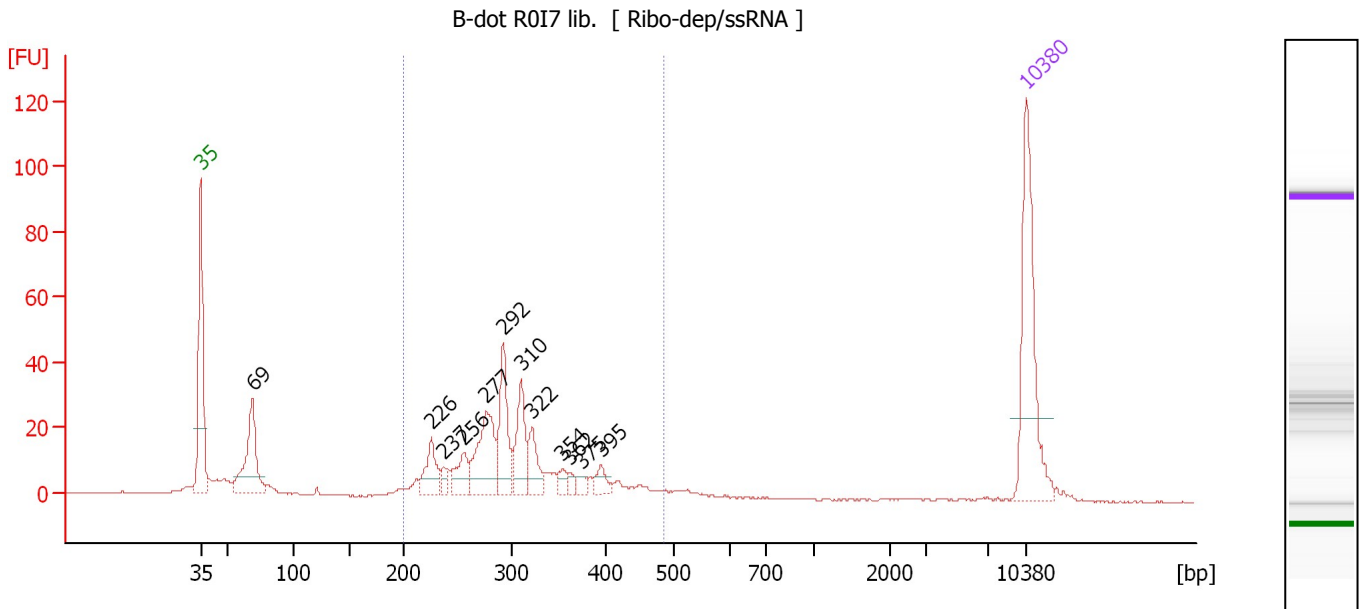
Region table for sample 3 : D-dot R013 lib.

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
207	749	387	14,693.2	3,484.82	3,229.8	95	23.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-14\2014-08-14_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : B-dot R017 lib.

Number of peaks found: 12 Corr. Area 1: 347.5
 Noise: 0.2

Peak table for sample 4 : B-dot R017 lib.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	69	77.22	1,704.2	
3	226	30.19	202.6	
4	237	7.86	50.2	
5	256	23.69	140.3	
6	277	62.45	341.6	
7	292	51.48	266.9	
8	310	39.84	194.5	
9	322	23.83	112.2	
10	354	7.06	30.2	
11	362	4.66	19.5	
12	375	5.36	21.6	
13	395	9.46	36.3	
14	10,380	75.00	10.9	Upper Marker

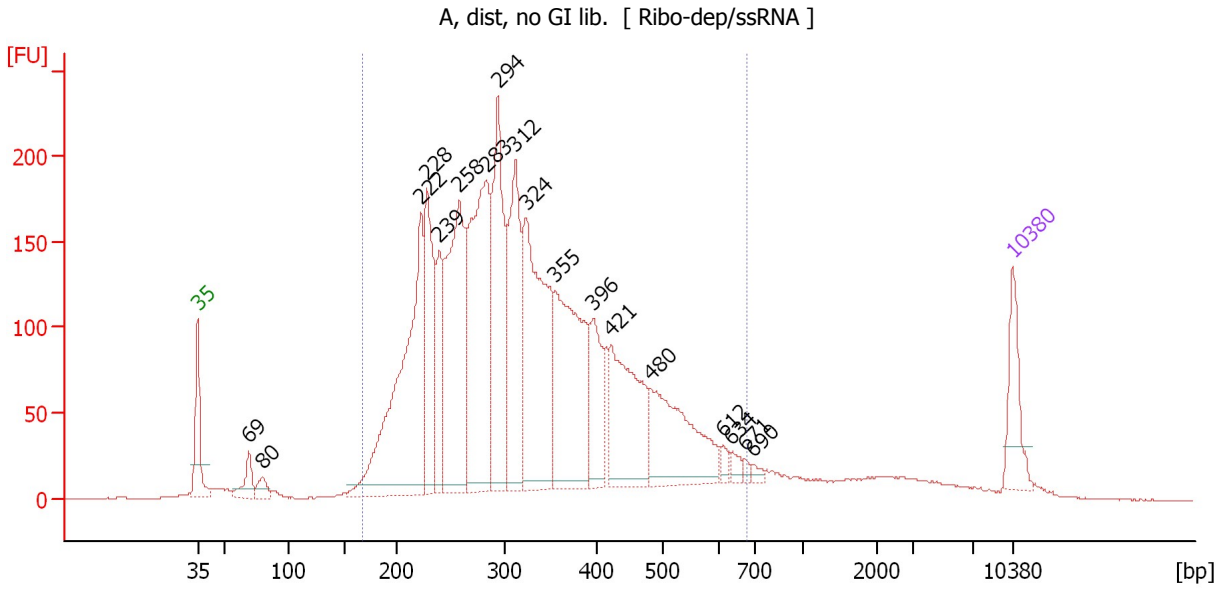
Region table for sample 4 : B-dot R017 lib.

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	486	305	1,669.3	323.86	347.5	73	18.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-14\2014-08-14_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : A, dist, no GI lib.

Number of peaks found: 18 Corr. Area 1: 4,775.4
 Noise: 0.2

Peak table for sample 5 : A, dist, no GI lib.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	69	55.96	1,232.6	
3	80	31.70	603.9	
4	222	630.67	4,310.7	
5	228	275.04	1,830.4	
6	239	151.54	962.0	
7	258	483.94	2,846.0	
8	283	553.20	2,960.5	
9	294	369.61	1,904.1	
10	312	309.29	1,501.2	
11	324	490.77	2,297.7	
12	355	419.24	1,788.5	
13	396	132.13	505.7	
14	421	268.70	967.9	
15	480	256.90	811.1	
16	612	15.51	38.4	
17	634	14.89	35.6	
18	671	8.48	19.1	
19	690	8.62	18.9	
20	10,380	75.00	10.9	Upper Marker

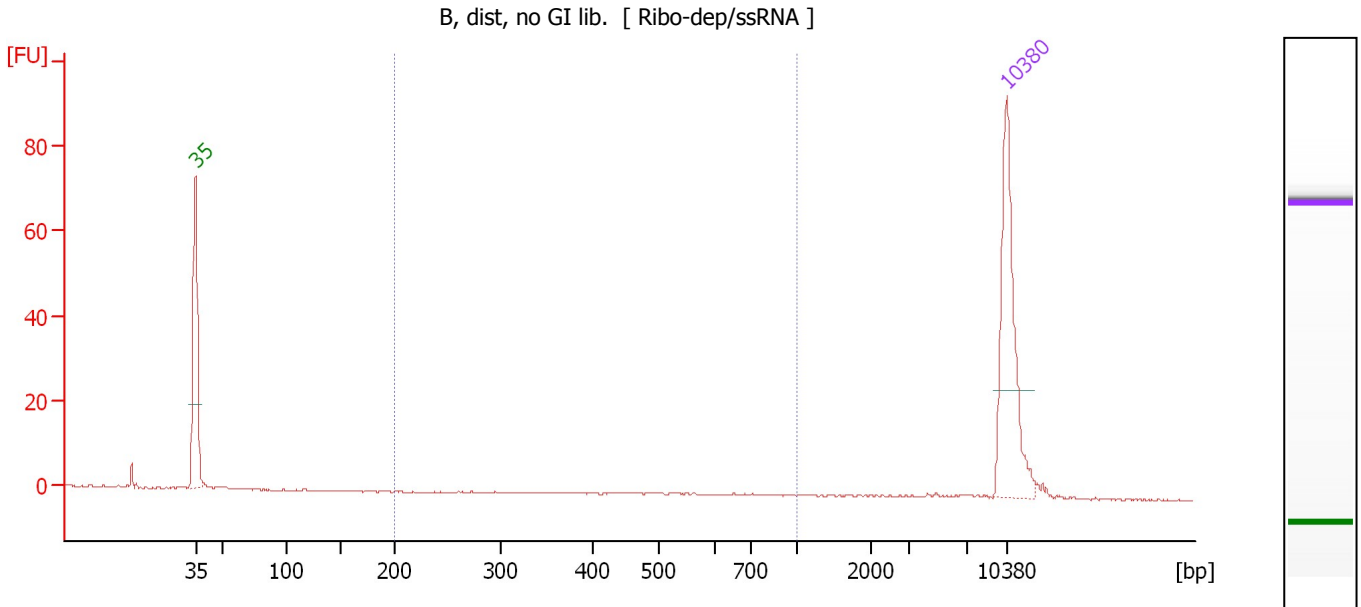
Region table for sample 5 : A, dist, no GI lib.

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
168	678	333	23,803.6	4,645.48	4,775.4	92	30.8

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 6 : B, dist, no GI lib.

Number of peaks found: 0 Corr. Area 1: 1.1
 Noise: 0.2

Peak table for sample 6 : 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	10,380	75.00	10.9	Upper Marker

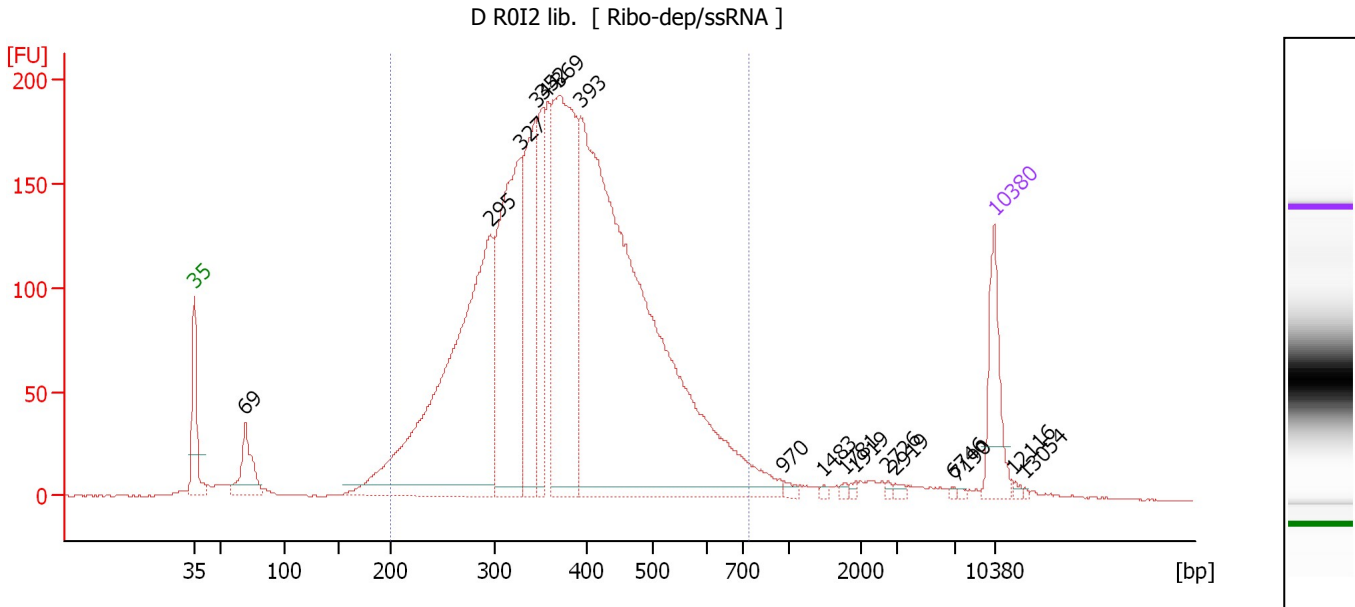
Region table for sample 6 : B, dist, no GI lib.

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	652	2.4	0.98	1.1	7	23.0

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 7 : D R012 lib.

Number of peaks found: 17 Corr. Area 1: 4,253.1
 Noise: 0.3

Peak table for sample 7 : D R012 lib.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	69	98.00	2,148.7	
3	295	838.27	4,301.2	
4	327	456.29	2,112.3	
5	344	287.40	1,265.0	
6	352	156.45	672.7	
7	369	540.47	2,217.1	
8	393	1,391.92	5,362.4	
9	970	7.44	11.6	
10	1,483	2.72	2.8	
11	1,781	3.53	3.0	
12	1,919	3.37	2.7	
13	2,726	2.78	1.5	
14	2,919	4.93	2.6	
15	6,746	2.17	0.5	
16	7,190	2.21	0.5	
17	10,380	75.00	10.9	Upper Marker
18	12,116	0.00	0.0	
19	13,054	0.00	0.0	

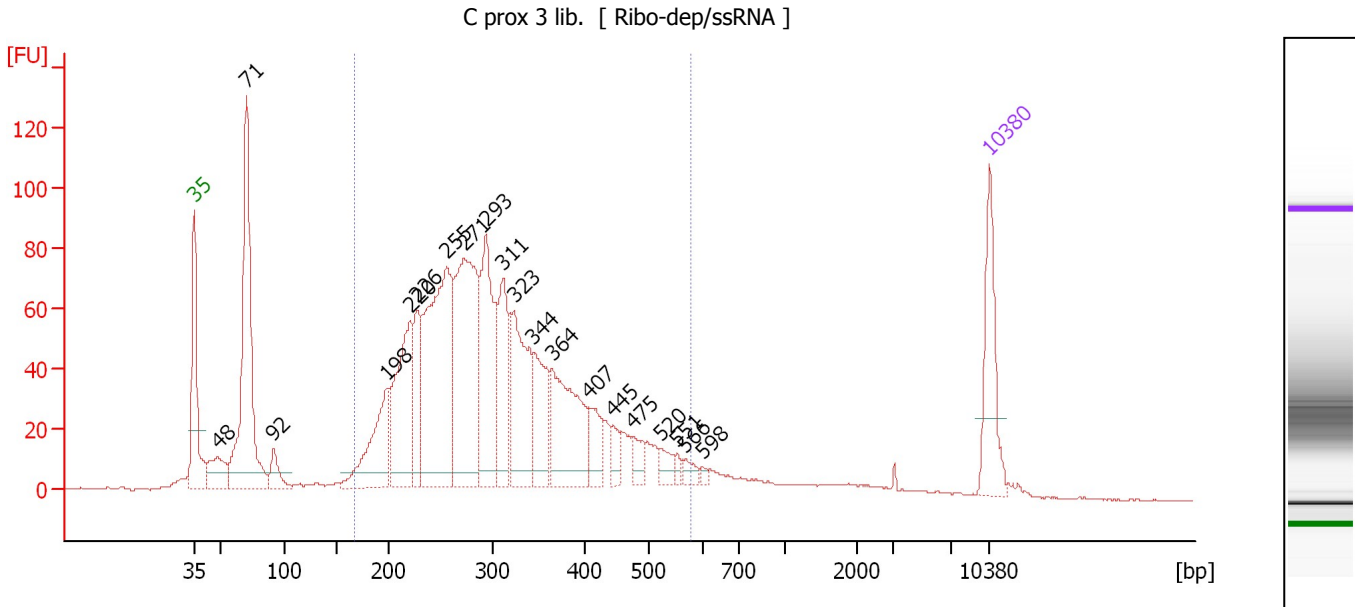
Region table for sample 7 : D R012 lib.

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	748	385	15,896.7	3,698.00	4,253.1	92	25.3

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Electropherogram Summary Continued ...



Overall Results for sample 8 : C prox 3 lib.

Number of peaks found: 20 Corr. Area 1: 1,782.6
 Noise: 0.3

Peak table for sample 8 : C prox 3 lib.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	60.57	1,896.7	
3	71	394.56	8,465.9	
4	92	34.39	567.8	
5	198	127.48	977.0	
6	220	196.76	1,353.9	
7	226	79.75	533.8	
8	255	357.36	2,123.2	
9	271	304.16	1,698.1	
10	293	201.33	1,041.5	
11	311	117.28	572.0	
12	323	165.15	774.7	
13	344	94.70	416.9	
14	364	161.67	672.8	
15	407	43.12	160.4	
16	445	21.62	73.6	
17	475	21.55	68.7	
18	520	17.65	51.5	
19	551	6.92	19.0	
20	566	12.04	32.2	
21	598	4.99	12.6	
22	10,380	75.00	10.9	Upper Marker

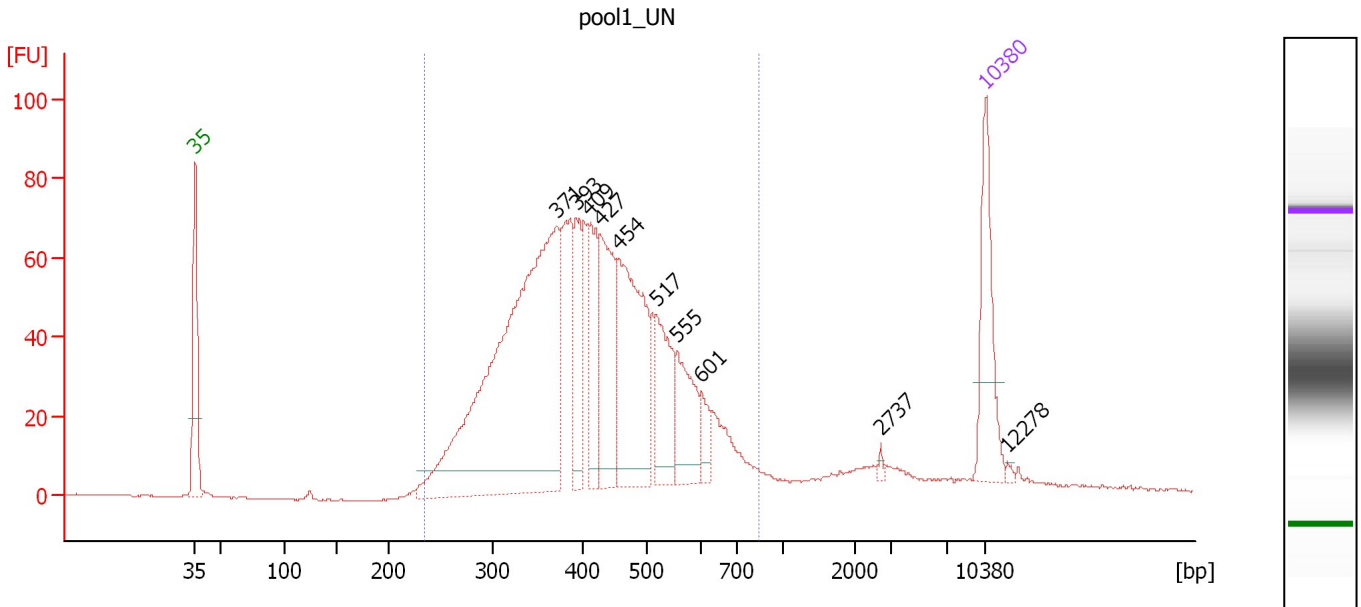
Region table for sample 8 : C prox 3 lib.

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
167	576	311	11,487.1	2,140.73	1,782.6	78	27.6

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Electropherogram Summary Continued ...



Overall Results for sample 9 : pool1_UN

Number of peaks found: 10 Corr. Area 1: 1,487.7
 Noise: 0.2

Peak table for sample 9 : pool1_UN

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	371	629.33	2,570.4	
3	393	73.25	282.5	
4	409	91.30	338.3	
5	427	123.11	436.7	
6	454	206.98	690.3	
7	517	84.86	248.9	
8	555	74.85	204.3	
9	601	21.94	55.3	
10	2,737	2.61	1.4	
11	10,380	75.00	10.9	Upper Marker
12	12,278	0.00	0.0	

Region table for sample 9 : pool1_UN

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
234	853	424	6,364.6	1,644.94	1,487.7	93	24.6

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Gel Image

Assay Class: High Sensitivity DNA Assay
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Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 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: 10)		Instrument	Run		8/14/2014 1:23:35 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\2014-08-14\2014-08-14_004.xad)		Instrument	Run		8/14/2014 12:48:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/14/2014 12:48:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/14/2014 12:48:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/14/2014 12:48:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/14/2014 12:48:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/14/2014 12:48:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/14/2014 12:48:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1