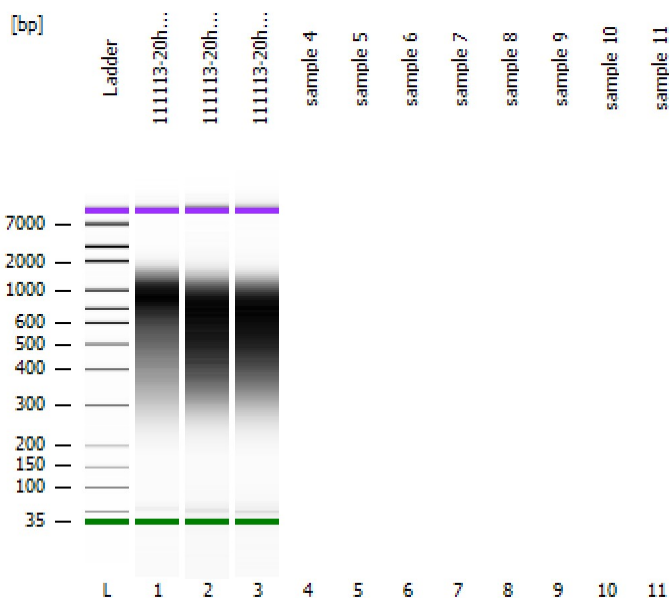


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad

Created: 2/14/2014 3:31:05 PM
Modified: 2/14/2014 3:49:35 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13804984 Firmware: C.01.069
Serial#: DE13804984 Type: G2939A

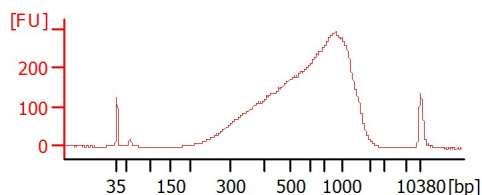
Assay Information:

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

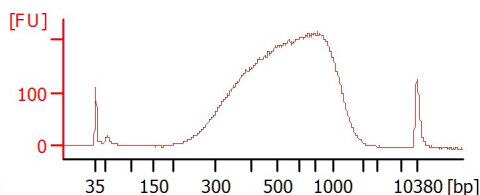
Chip Information:

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

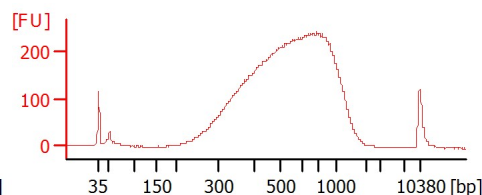
111113-20half-roots-0.03ng-SMARTer2lib



111113-20half-roots-0.3ng-SMARTer2lib



111113-20half-roots-3ng-SMARTer2lib



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad

Created: 2/14/2014 3:31:05 PM
Modified: 2/14/2014 3:49:35 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
111113-20half-roots-0.03ng-SMARTe r2lib		<input type="checkbox"/>	✓			
111113-20half-roots-0.3ng-SMARTer 2lib		<input type="checkbox"/>	✓			
111113-20half-roots-3ng-SMARTer2li 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 :**

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad

Created: 2/14/2014 3:31:05 PM
Modified: 2/14/2014 3:49:35 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/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

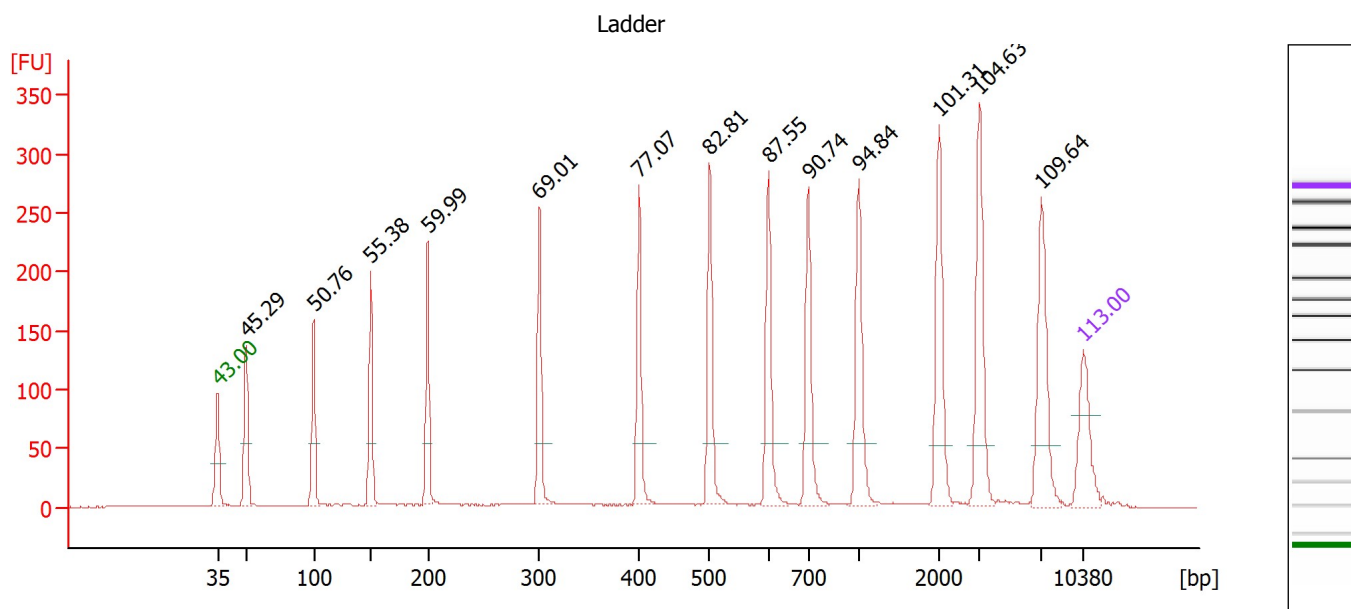
Ladder

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:\...gh Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad

Created: 2/14/2014 3:31:05 PM
 Modified: 2/14/2014 3:49:35 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

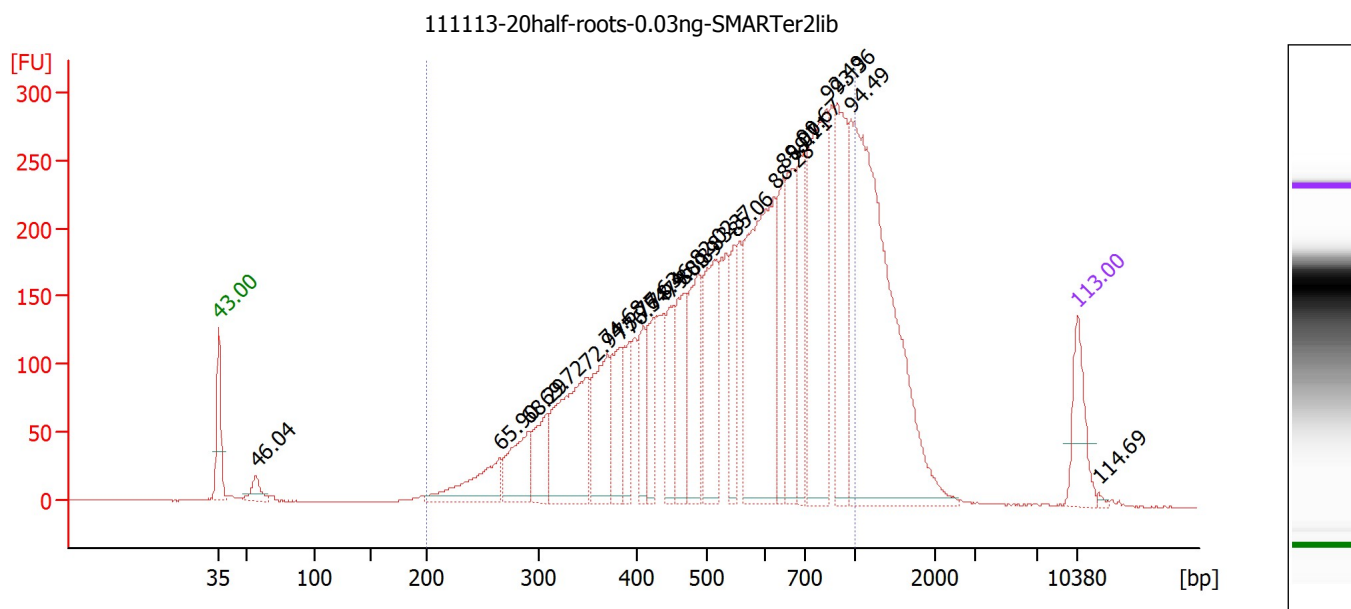
Peak table for Ladder

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:\...gh Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad

Created: 2/14/2014 3:31:05 PM
 Modified: 2/14/2014 3:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 111113-20half-roots-0.03ng-SMARTer2lib

Number of peaks found: 23 Corr. Area 1: 5,756.9
 Noise: 0.3

Peak table for sample 1 : 111113-20half-roots-0.03ng-SMARTer2lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	57	41.01	1,092.1	
3	266	131.58	750.9	
4	292	122.38	635.0	
5	309	102.38	502.2	
6	349	297.00	1,290.4	
7	370	175.69	718.9	
8	384	114.78	453.2	
9	393	86.45	332.9	
10	410	81.10	299.9	
11	424	96.10	343.3	
12	448	106.93	362.0	
13	467	148.37	481.9	
14	486	176.80	550.9	
15	512	204.26	604.8	
16	547	90.14	249.5	
17	623	458.21	1,115.0	
18	646	136.11	319.3	
19	668	168.47	382.4	
20	698	149.32	324.4	
21	828	372.17	681.2	
22	891	230.68	392.1	
23	974	756.00	1,175.8	
24	10,380	75.00	10.9	Upper Marker
25	12,083	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad

Created: 2/14/2014 3:31:05 PM
Modified: 2/14/2014 3:49:35 PM

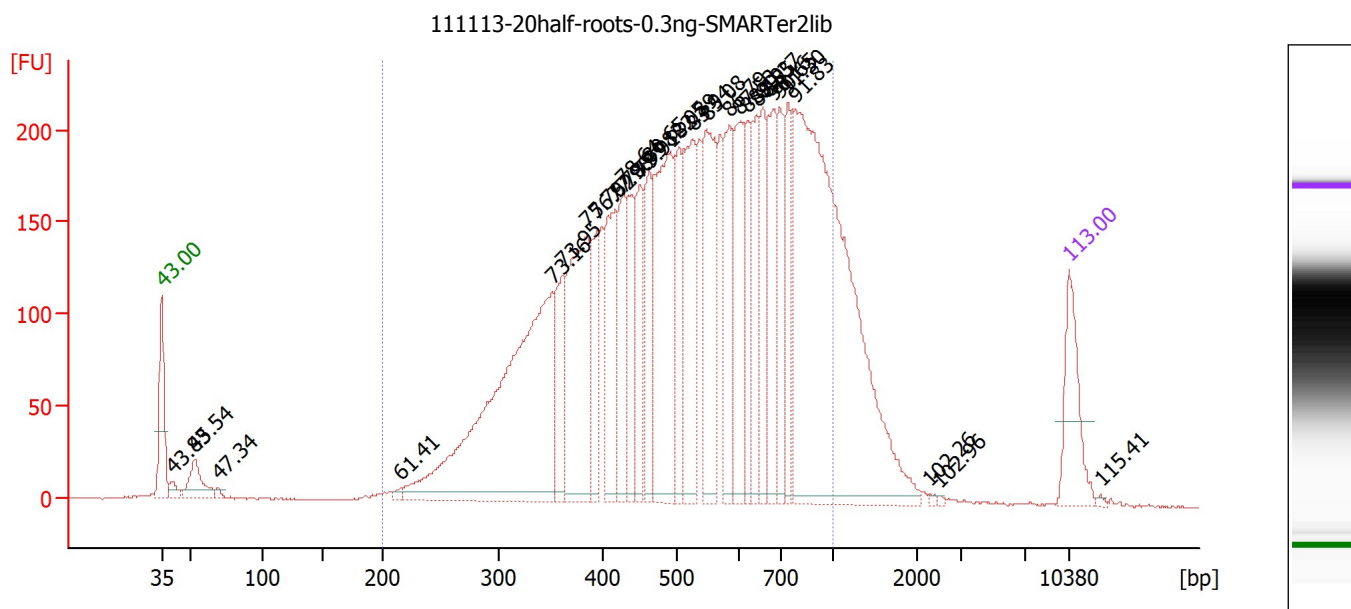
Electropherogram Summary Continued ...

... Region table for sample 1 : 111113-20half-roots-0.03ng-SMARTer2lib

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	1,000	5,756.9	83	579	33.4	4,112.09	12,852.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad

Created: 2/14/2014 3:31:05 PM
 Modified: 2/14/2014 3:49:35 PM

Electropherogram Summary Continued ...

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad

Created: 2/14/2014 3:31:05 PM
 Modified: 2/14/2014 3:49:35 PM

Electropherogram Summary Continued ...**... Peak table for sample 2 : 111113-20half-roots-0.3ng-SMARTer2lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	779	844.93	1,642.6	
28	2,286	2.20	1.5	
29	2,497	1.48	0.9	
30	10,380	75.00	10.9	Upper Marker
31	12,802	0.00	0.0	

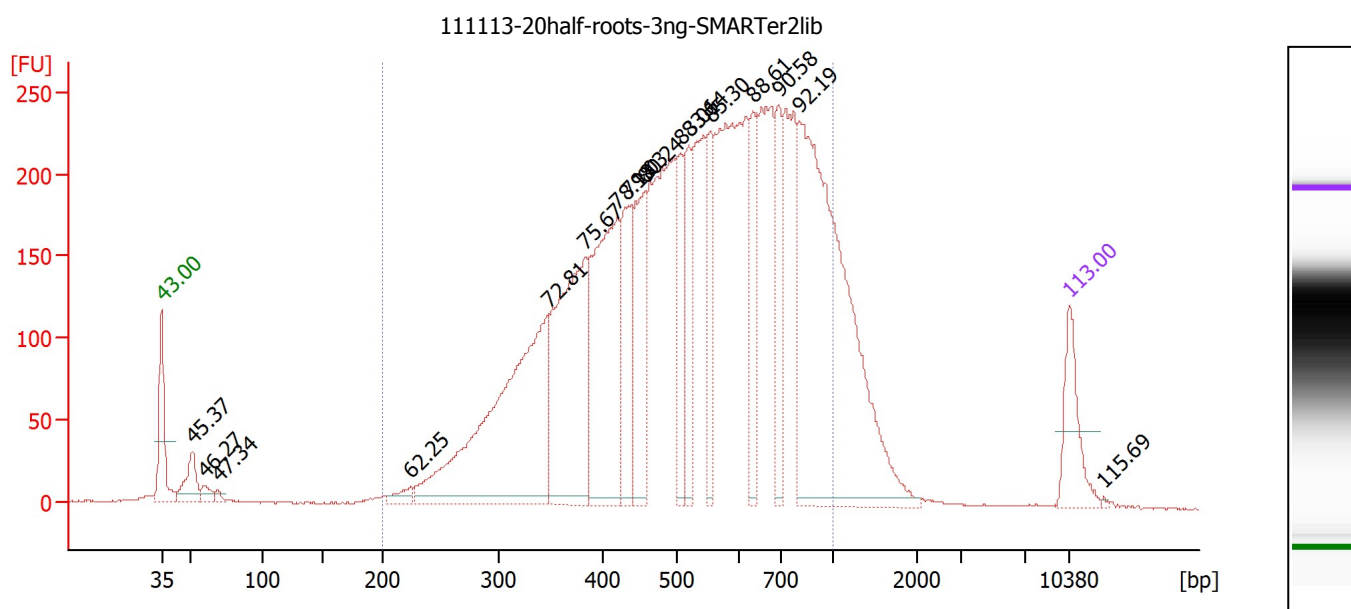
Region table for sample 2 : 111113-20half-roots-0.3ng-SMARTer2lib

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	5,712.0	90	545	33.0	4,239.97	13,800.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad

Created: 2/14/2014 3:31:05 PM
 Modified: 2/14/2014 3:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 111113-20half-roots-3ng-SMARTer2lib

Number of peaks found: 16 Corr. Area 1: 6,225.9
 Noise: 0.6

Peak table for sample 3 : 111113-20half-roots-3ng-SMARTer2lib

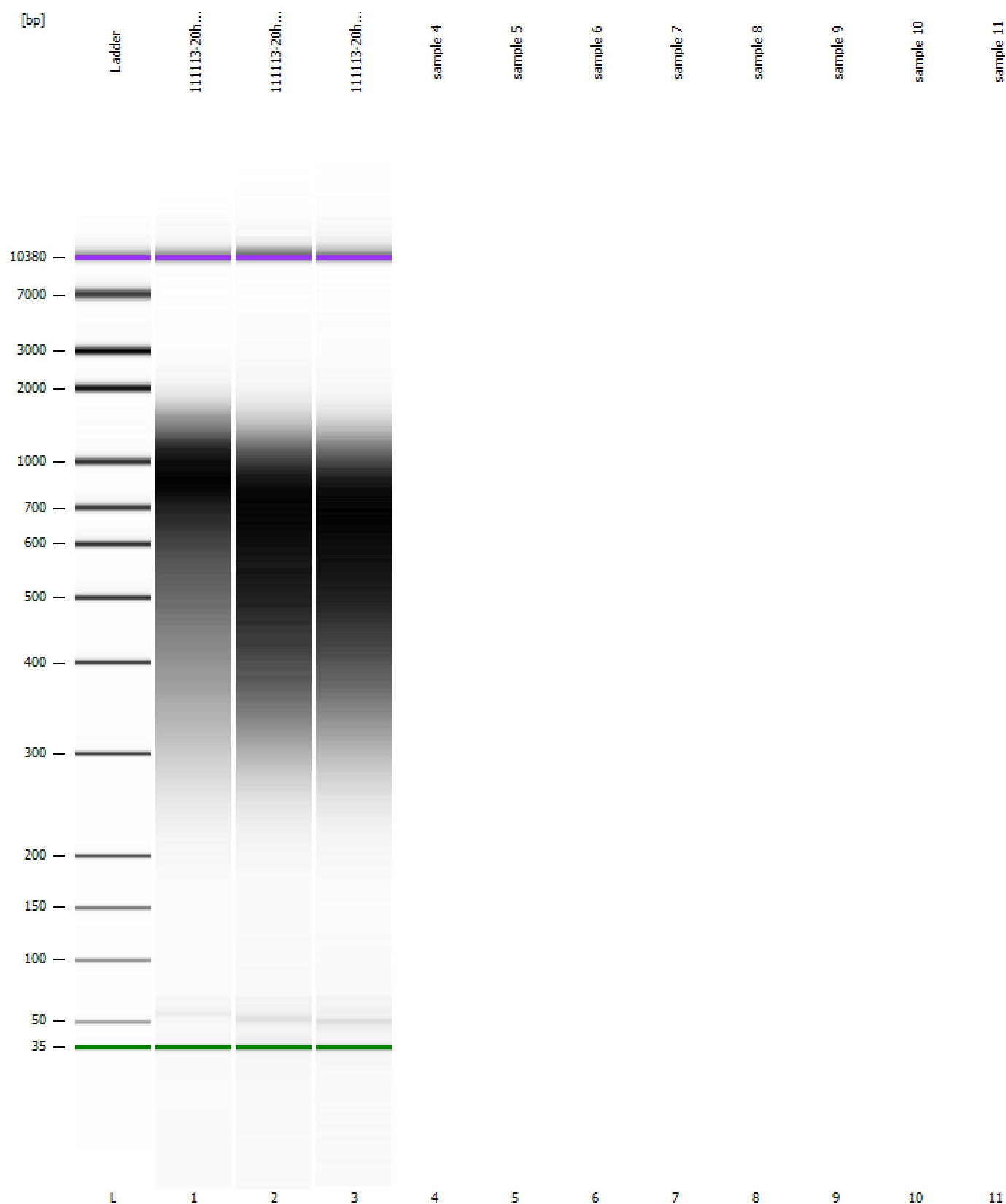
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	51	72.42	2,160.6	
3	59	20.67	531.2	
4	69	9.94	219.1	
5	225	21.62	145.6	
6	347	637.15	2,781.1	
7	383	421.50	1,669.0	
8	419	407.26	1,471.7	
9	434	166.88	582.4	
10	455	194.48	647.4	
11	504	115.45	346.9	
12	518	123.91	362.8	
13	552	113.93	312.5	
14	633	120.65	288.8	
15	695	122.79	267.8	
16	806	780.27	1,467.4	
17	10,380	75.00	10.9	Upper Marker
18	13,078	0.00	0.0	

Region table for sample 3 : 111113-20half-roots-3ng-SMARTer2lib

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	6,225.9	90	547	32.4	4,632.91	14,975.8	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad

Created: 2/14/2014 3:31:05 PM
Modified: 2/14/2014 3:49:35 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad

Created: 2/14/2014 3:31:05 PM
Modified: 2/14/2014 3:49:35 PM

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.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad

Created: 2/14/2014 3:31:05 PM
 Modified: 2/14/2014 3:49:35 PM

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		2/14/2014 3:49:32 PM	(GMT --05:00) Eastern Standard Time	gw57	WIN
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-02-14\2100 expert_High Sensitivity DNA Assay_DE13804984_2014-02-14_15-31-06.xad)		Instrument	Run		2/14/2014 3:31:11 PM	(GMT --05:00) Eastern Standard Time	gw57	WIN
Product Number : G2939A		Instrument	Run		2/14/2014 3:31:11 PM	(GMT --05:00) Eastern Standard Time	gw57	WIN
Name :		Instrument	Run		2/14/2014 3:31:11 PM	(GMT --05:00) Eastern Standard Time	gw57	WIN
Vendor : Agilent Technologies		Instrument	Run		2/14/2014 3:31:11 PM	(GMT --05:00) Eastern Standard Time	gw57	WIN
Serial# : DE13804984		Instrument	Run		2/14/2014 3:31:11 PM	(GMT --05:00) Eastern Standard Time	gw57	WIN
Firmware : C.01.069		Instrument	Run		2/14/2014 3:31:11 PM	(GMT --05:00) Eastern Standard Time	gw57	WIN
Cartridge : Electrode		Instrument	Run		2/14/2014 3:31:11 PM	(GMT --05:00) Eastern Standard Time	gw57	WIN