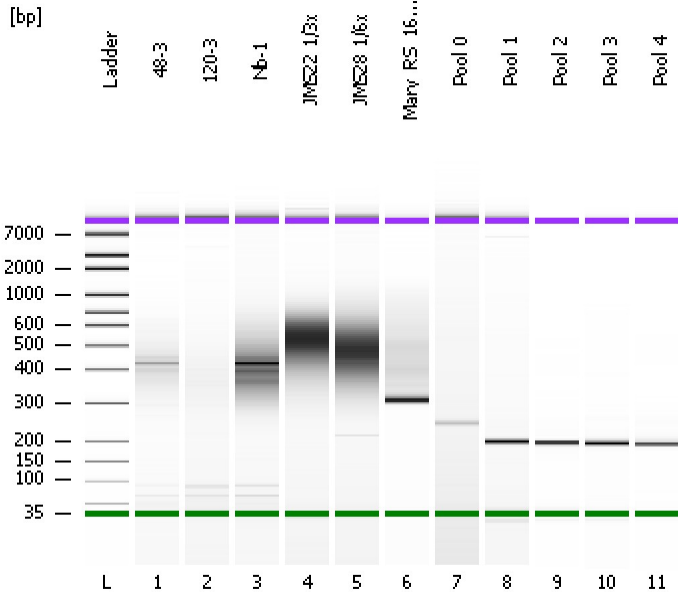


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
Modified: 8/5/2014 9:32:06 AM

Electrophoresis File Run Summary



Instrument Information:

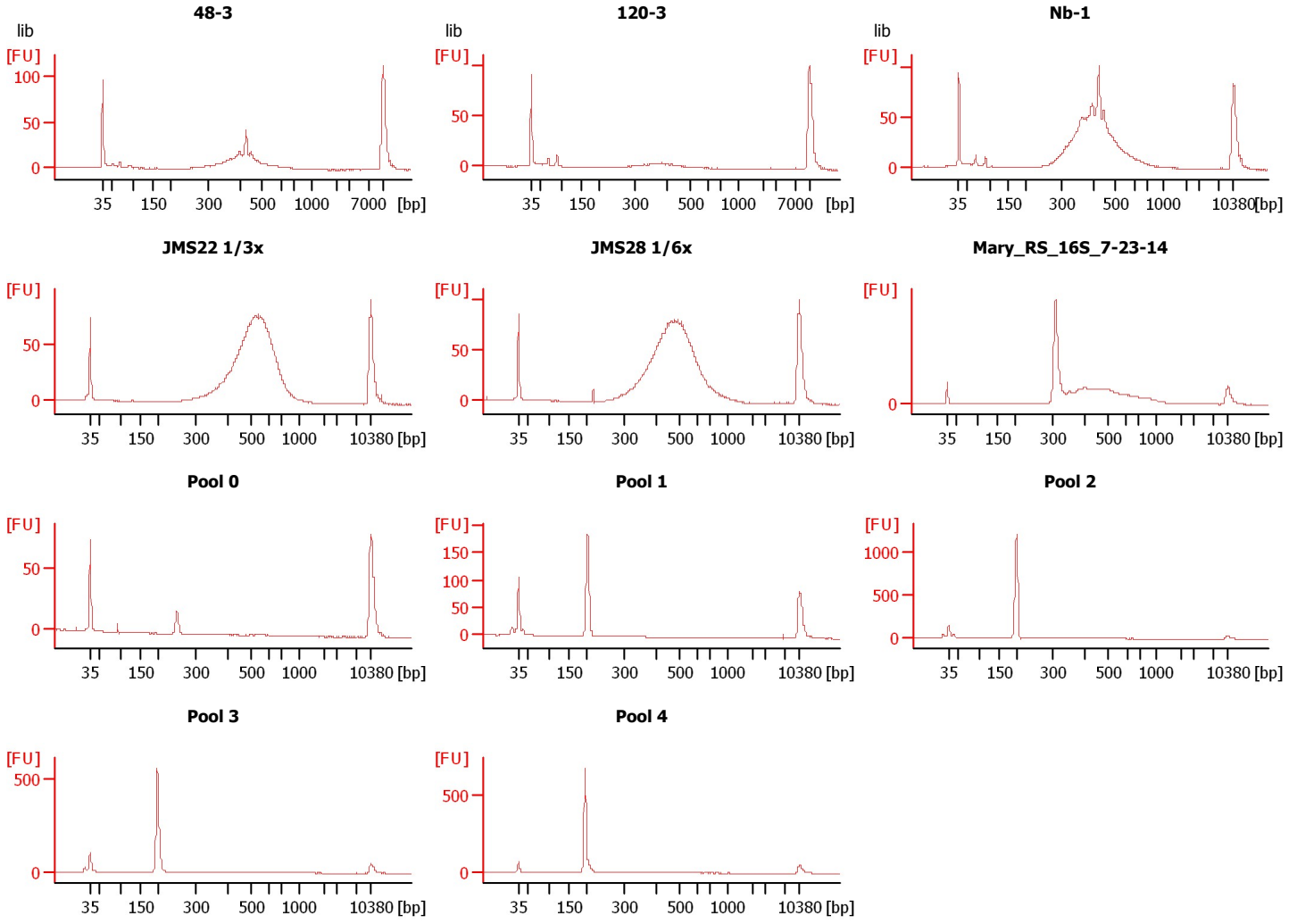
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
Modified: 8/5/2014 9:32:06 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
48-3	lib	<input type="checkbox"/>	✓			
120-3	lib	<input type="checkbox"/>	✓			
Nb-1	lib	<input type="checkbox"/>	✓			
JMS22 1/3x		<input type="checkbox"/>	✓			
JMS28 1/6x		<input type="checkbox"/>	✓			
Mary_RS_16S_7-23-14		<input type="checkbox"/>	✓			
Pool 0		<input type="checkbox"/>	✓			
Pool 1		<input type="checkbox"/>	✓			
Pool 2		<input type="checkbox"/>	✓			
Pool 3		<input type="checkbox"/>	✓			
Pool 4		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
Modified: 8/5/2014 9:32:06 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

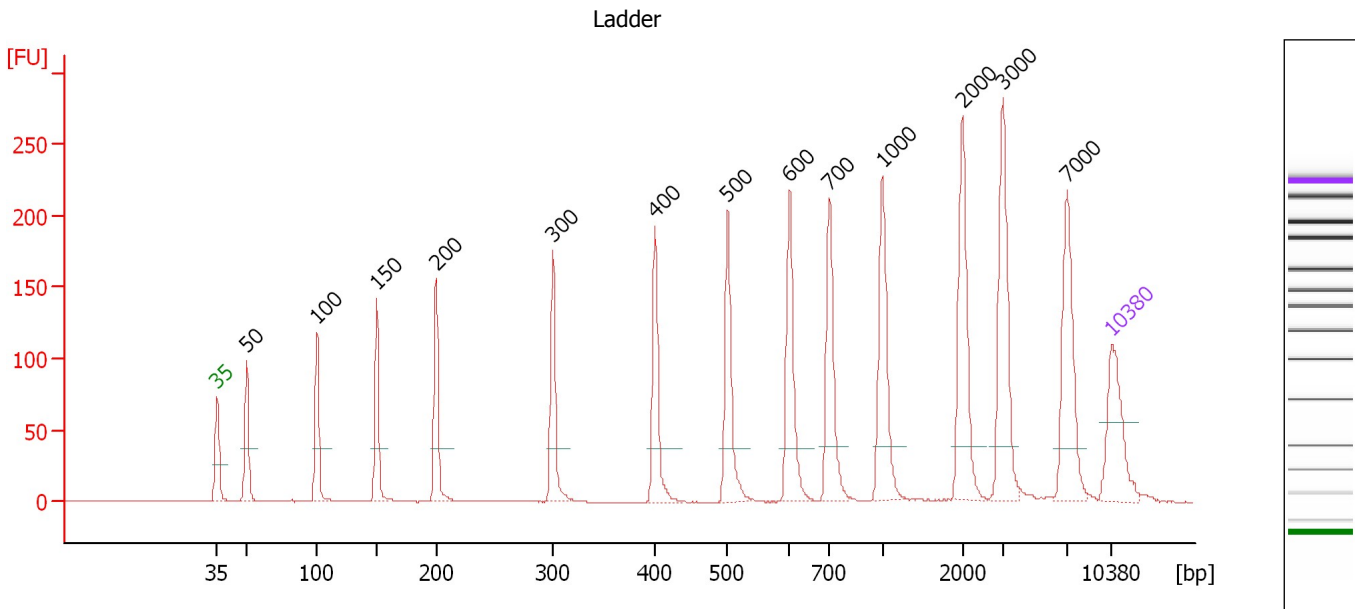
Ladder

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:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
 Modified: 8/5/2014 9:32:06 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

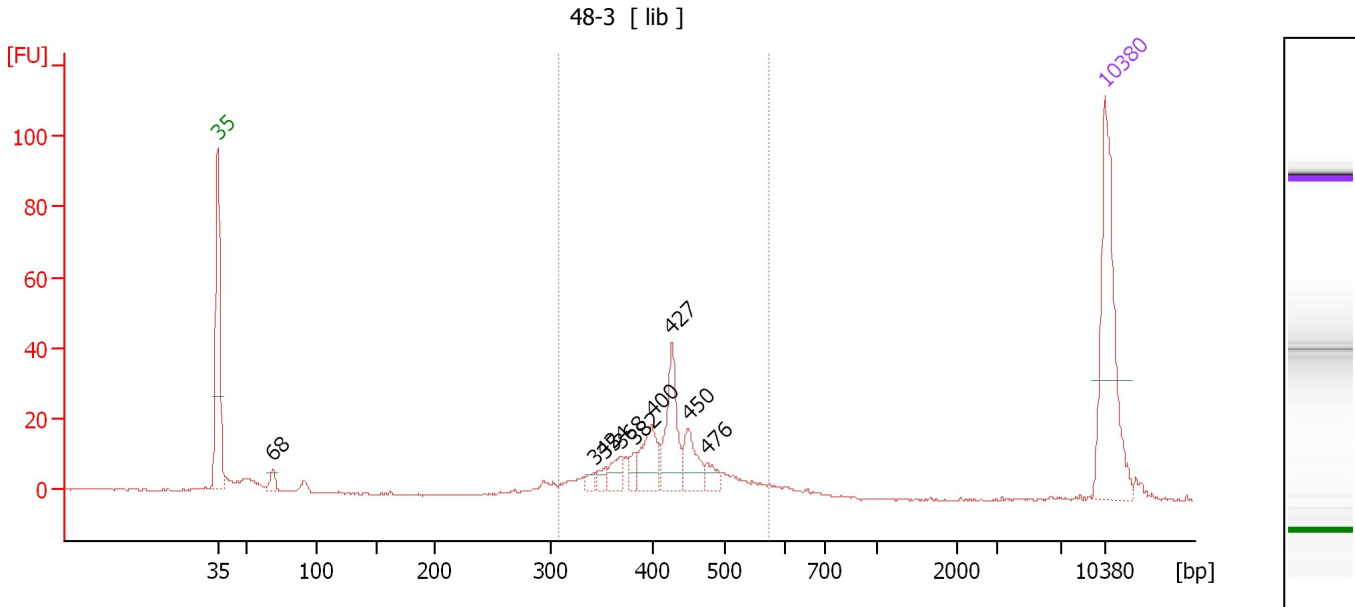
Peak table for Ladder

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:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
 Modified: 8/5/2014 9:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 48-3

Number of peaks found: 9 Corr. Area 1: 212.0
 Noise: 0.2

Peak table for sample 1 : 48-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	68	8.54	188.9	
3	342	4.99	22.1	
4	354	6.96	29.8	
5	368	13.16	54.2	
6	382	7.49	29.7	
7	400	29.31	111.1	
8	427	44.83	159.1	
9	450	23.52	79.2	
10	476	9.12	29.0	
11	10,380	75.00	10.9	Upper Marker

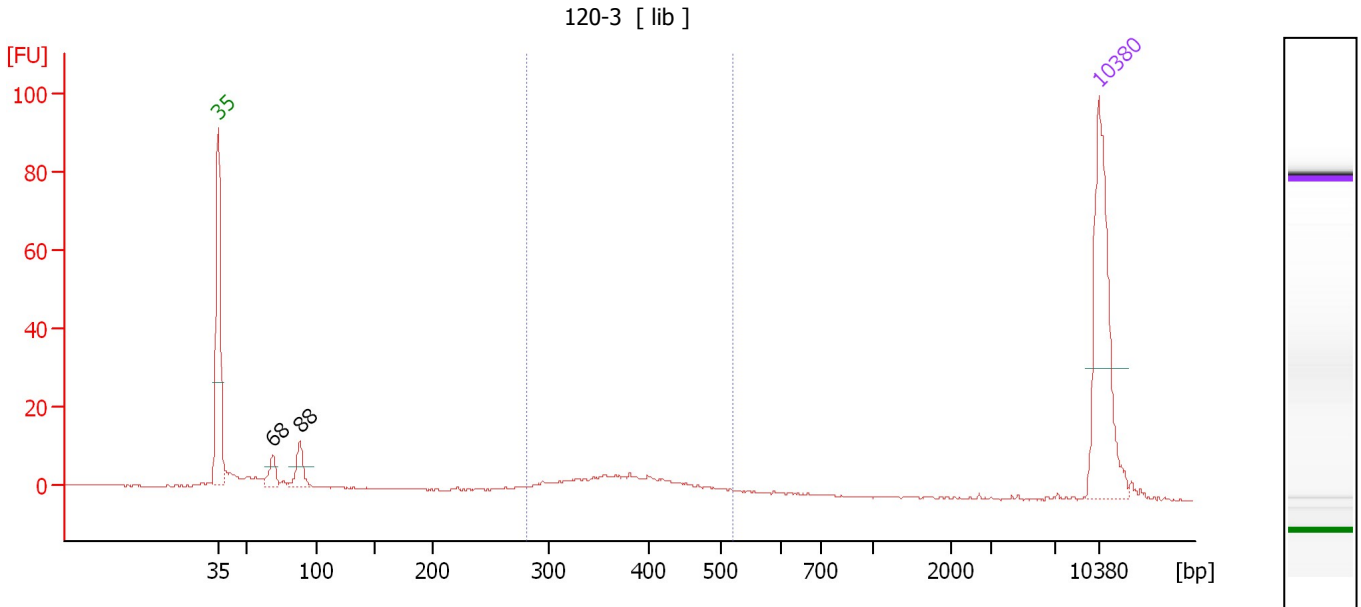
Region table for sample 1 : 48-3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
308	571	420	670.2	182.26	212.0	80	12.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
 Modified: 8/5/2014 9:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 120-3

Number of peaks found: 2 Corr. Area 1: 63.4
 Noise: 0.2

Peak table for sample 2 : 120-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	68	13.35	295.5	
3	88	20.88	360.7	
4	10,380	75.00	10.9	Upper Marker

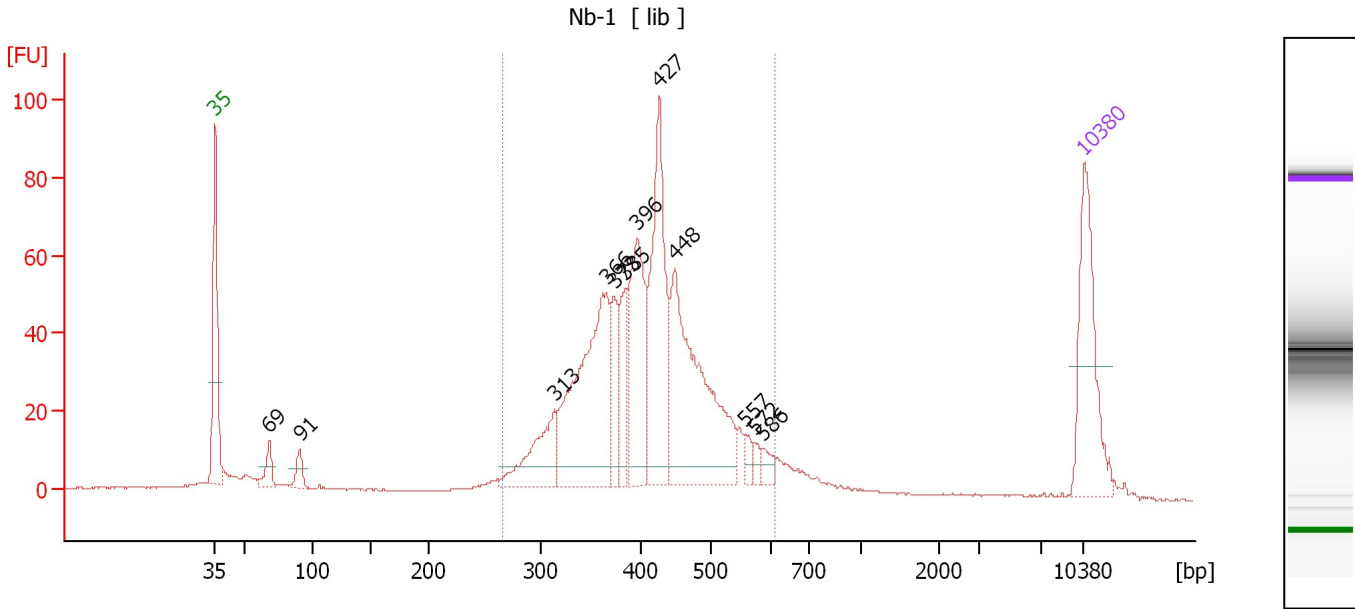
Region table for sample 2 : 120-3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
281	519	381	230.3	56.37	63.4	47	14.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
 Modified: 8/5/2014 9:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Nb-1

Number of peaks found: 12 Corr. Area 1: 961.1
 Noise: 0.1

Peak table for sample 3 : Nb-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	69	19.76	436.8	
3	91	16.52	275.8	
4	313	68.07	329.1	
5	366	196.73	814.5	
6	373	44.03	178.7	
7	385	44.37	174.7	
8	396	112.23	429.4	
9	427	151.94	539.3	
10	448	198.33	670.7	
11	557	8.39	22.8	
12	572	7.69	20.4	
13	586	9.17	23.7	
14	10,380	75.00	10.9	Upper Marker

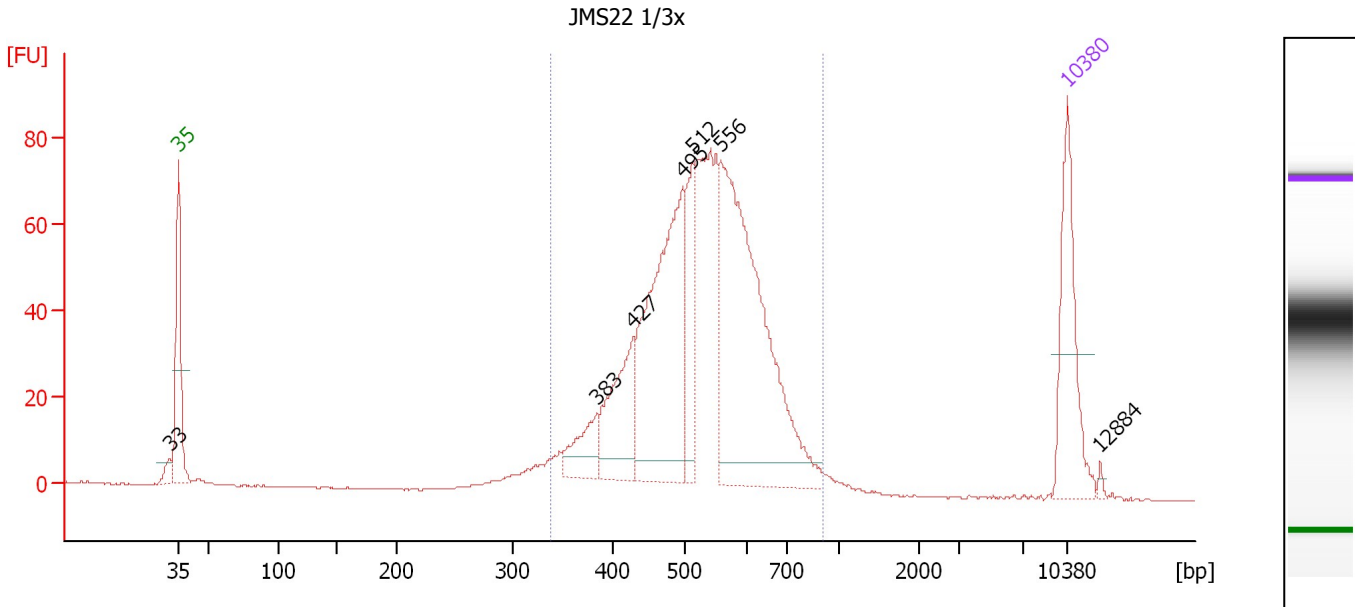
Region table for sample 3 : Nb-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
267	608	413	3,499.1	918.47	961.1	86	17.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : JMS22 1/3x

Number of peaks found: 7 Corr. Area 1: 1,051.5
 Noise: 0.1

Peak table for sample 4 : JMS22 1/3x

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	383	39.03	154.3	
4	427	87.31	309.8	
5	495	249.42	763.1	
6	512	68.09	201.7	
7	556	333.41	907.9	
8	10,380	75.00	10.9	Upper Marker
9	12,884	0.00	0.0	

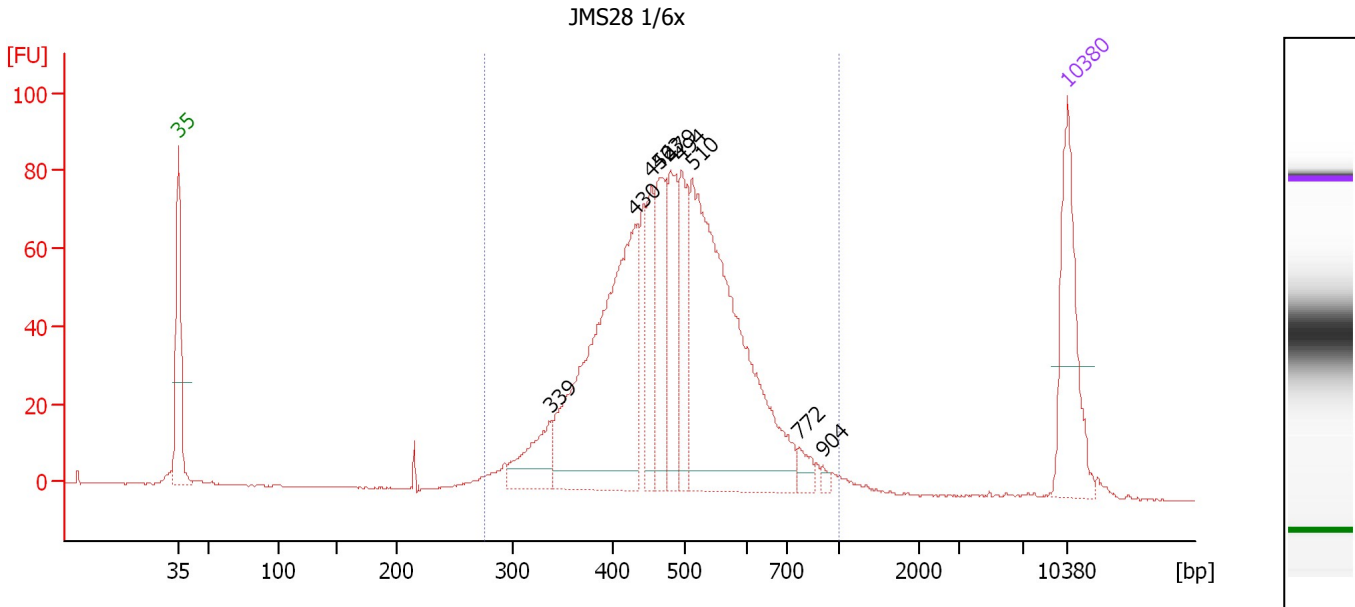
Region table for sample 4 : JMS22 1/3x

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
338	903	528	3,021.5	1,009.36	1,051.5	94	17.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
 Modified: 8/5/2014 9:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : JMS28 1/6x

Number of peaks found: 9 Corr. Area 1: 1,316.2
 Noise: 0.1

Peak table for sample 5 : JMS28 1/6x

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	339	49.96	223.3	
3	430	306.46	1,080.9	
4	452	60.84	203.9	
5	463	82.25	269.2	
6	479	74.97	237.4	
7	494	69.65	213.6	
8	510	361.86	1,074.3	
9	772	11.54	22.6	
10	904	3.65	6.1	
11	10,380	75.00	10.9	Upper Marker

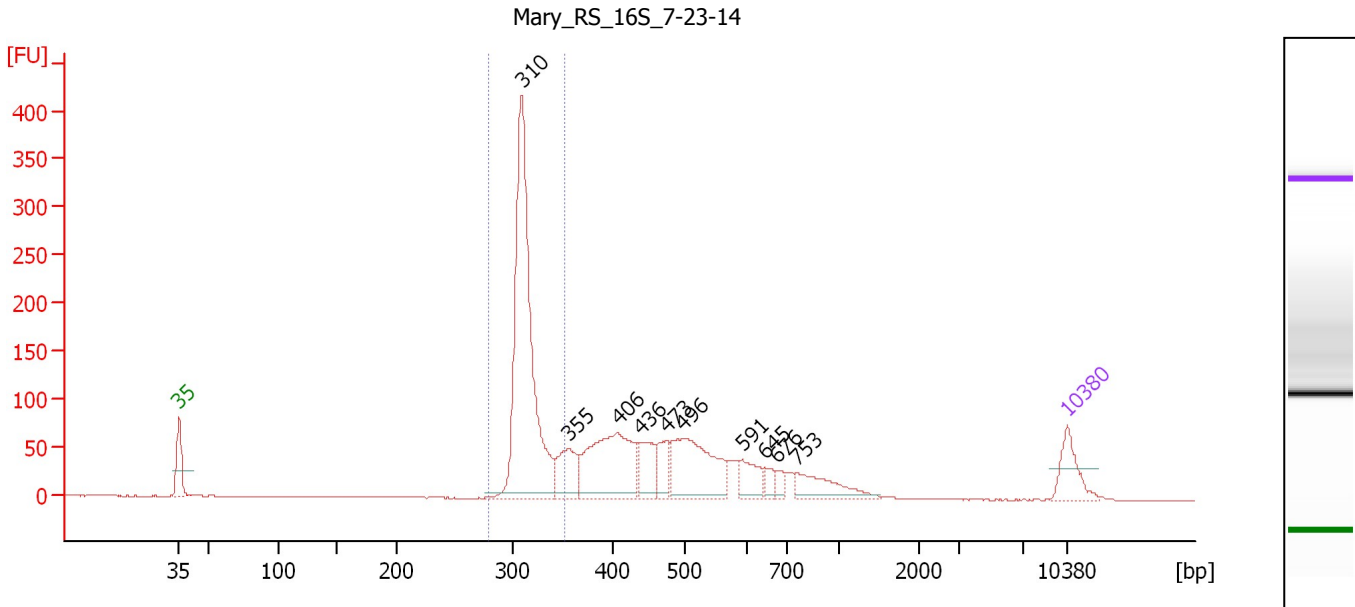
Region table for sample 5 : JMS28 1/6x

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
277	1,000	487	3,587.1	1,086.80	1,316.2	97	21.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
 Modified: 8/5/2014 9:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Mary RS 16S 7-23-14

Number of peaks found: 10 Corr. Area 1: 928.7
 Noise: 0.1

Peak table for sample 6 : Mary RS 16S 7-23-14

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	310	1,025.95	5,022.0	
3	355	137.74	587.6	
4	406	368.37	1,375.4	
5	436	106.97	371.4	
6	473	78.46	251.1	
7	496	307.13	938.0	
8	591	73.35	188.0	
9	645	29.30	68.8	
10	676	24.66	55.3	
11	753	113.37	228.2	
12	10,380	75.00	10.9	Upper Marker

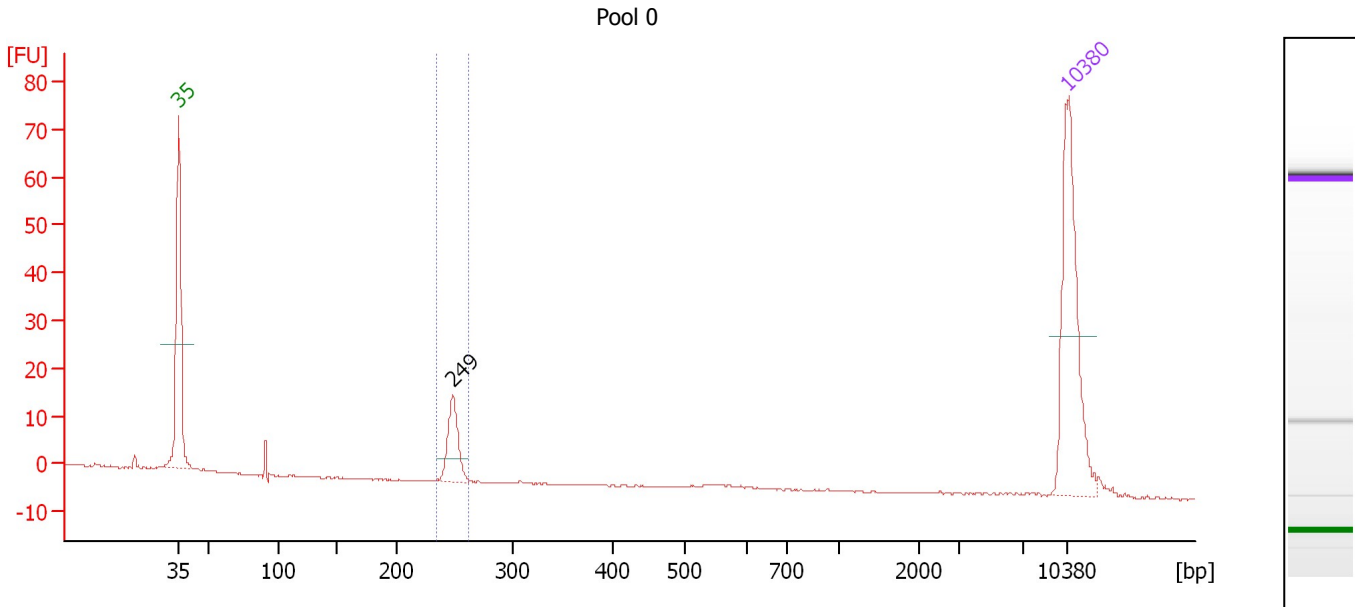
Region table for sample 6 : Mary RS 16S 7-23-14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
280	351	315	5,120.9	1,063.82	928.7	42	3.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
 Modified: 8/5/2014 9:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Pool 0

Number of peaks found: 1 Corr. Area 1: 23.8
 Noise: 0.1

Peak table for sample 7 : Pool 0

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	249	33.44	203.6	
3	10,380	75.00	10.9	Upper Marker

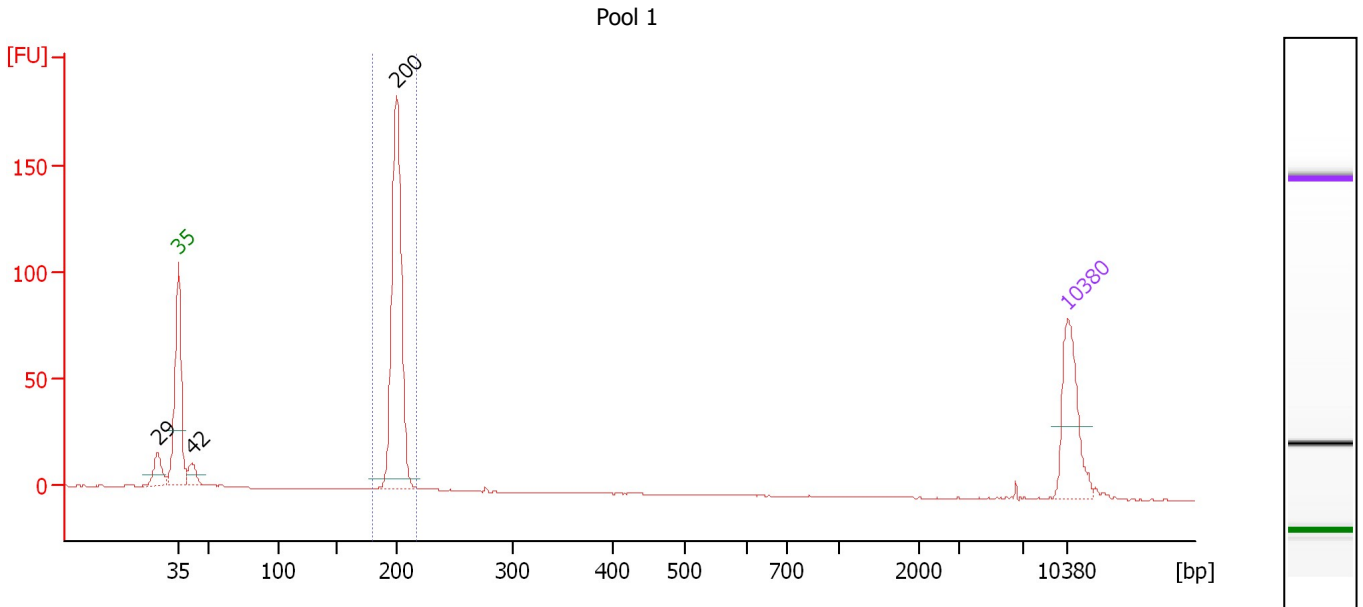
Region table for sample 7 : Pool 0

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
235	263	249	177.1	29.13	23.8	68	1.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
 Modified: 8/5/2014 9:32:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Pool 1

Number of peaks found: 3 Corr. Area 1: 280.7
 Noise: 0.1

Peak table for sample 8 : Pool 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	29	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	42	28.42	1,034.6	
4	200	345.50	2,611.7	
5	10,380	75.00	10.9	Upper Marker

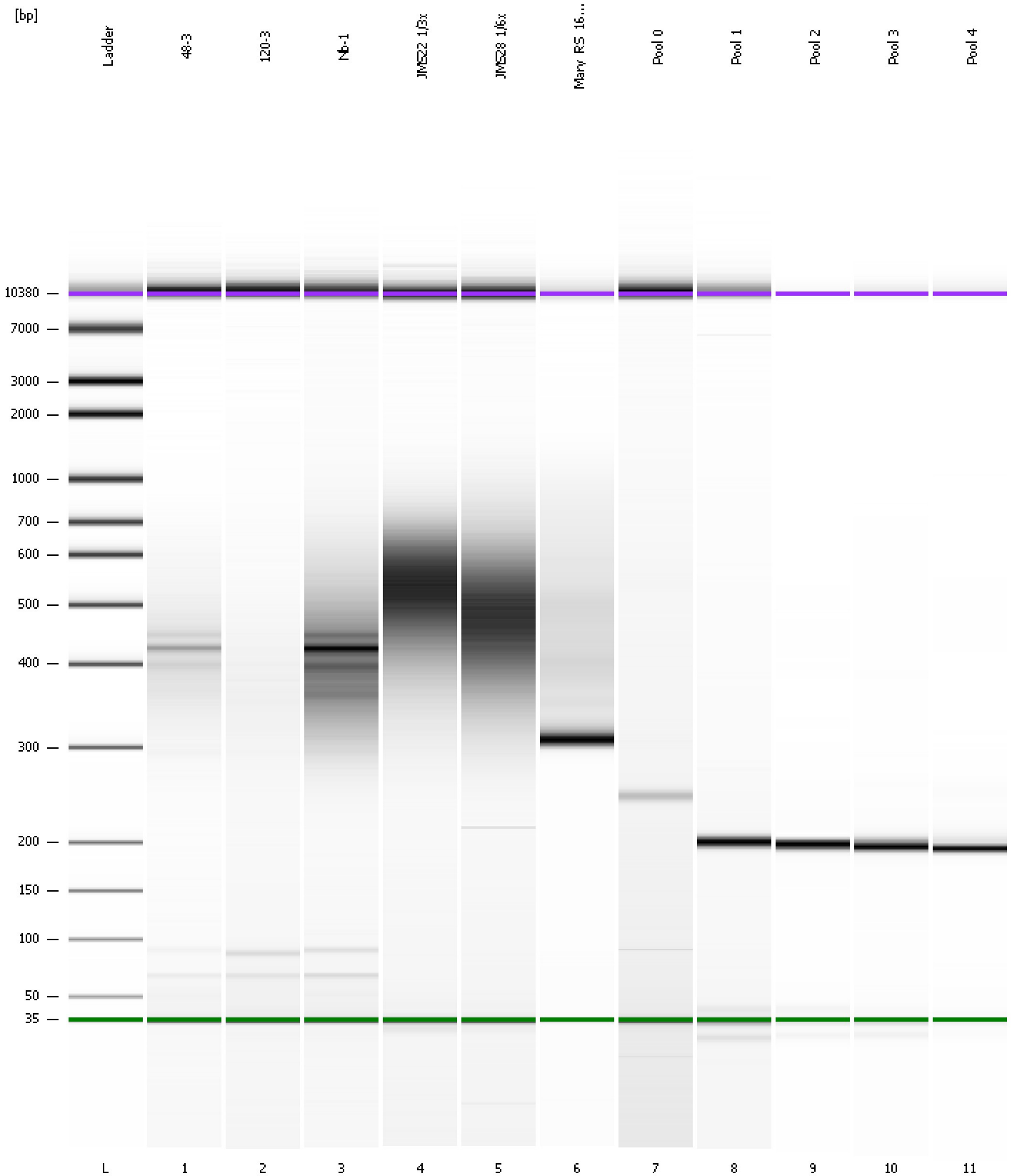
Region table for sample 8 : Pool 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
180	217	201	2,644.0	350.24	280.7	78	2.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad

Created: 8/4/2014 1:23:31 PM
Modified: 8/5/2014 9:32:06 AM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 8/4/2014 1:23:31 PM
 Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-04\2014-08-04_004.xad Modified: 8/5/2014 9:32:06 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		8/4/2014 2:04:50 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\2014-08-04\2014-08-04_004.xad)		Instrument	Run		8/4/2014 1:23:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/4/2014 1:23:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/4/2014 1:23:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/4/2014 1:23:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/4/2014 1:23:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/4/2014 1:23:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/4/2014 1:23:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1