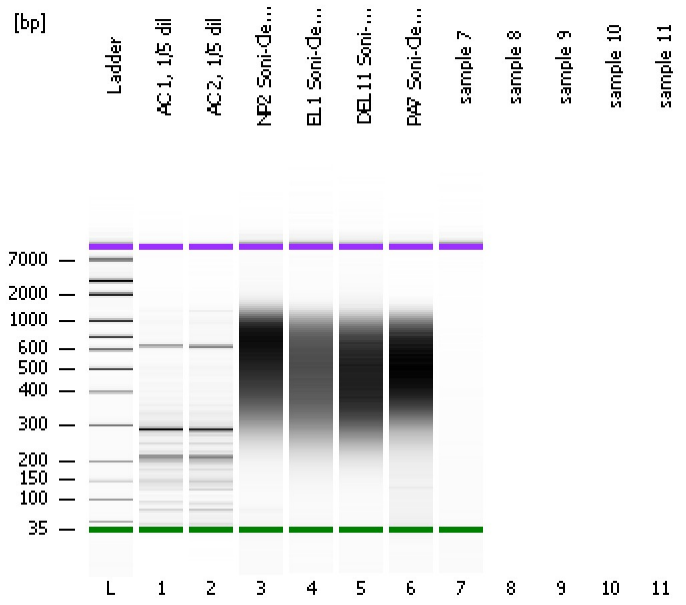
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-06\2012-12-06_001.xad

Created: 12/6/2012 9:40:09 AM
Modified: 12/6/2012 10:53:49 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

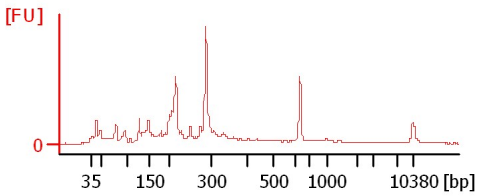
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

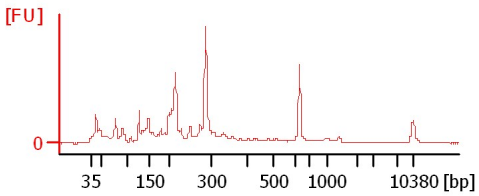
Chip Information:

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

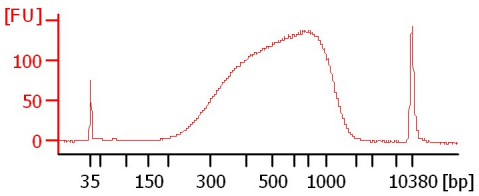
AC 1, 1/5 dil



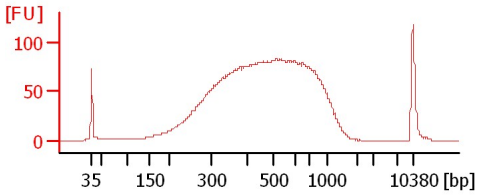
AC 2, 1/5 dil



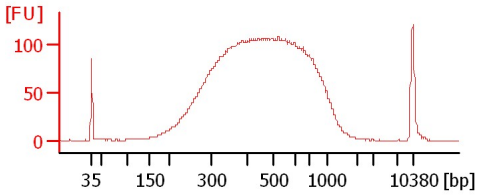
NP2 Soni-Cleaned 1:3



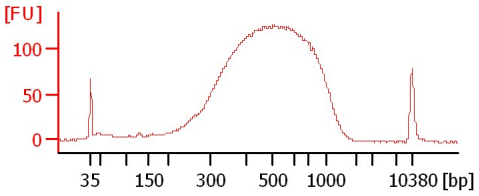
EL1 Soni-Cleaned 1:9



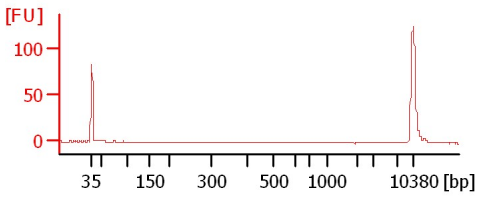
DEL11 Soni-Cleaned 1:20



PA7 Soni-Cleaned 1:20



sample 7



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-06\2012-12-06_001.xad

Created: 12/6/2012 9:40:09 AM
Modified: 12/6/2012 10:53:49 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
AC 1, 1/5 dil		☐	✓			
AC 2, 1/5 dil		☐	✓			
NP2 Soni-Cleaned 1:3		☐	✓			
EL1 Soni-Cleaned 1:9		☐	✓			
DEL11 Soni-Cleaned 1:20		☐	✓			
PA7 Soni-Cleaned 1:20		☐	✓			
sample 7		☐	✓			
sample 8		☐	✗			
sample 9		☐	✗			
sample 10		☐	✗			
sample 11		☐	✗			
Ladder		☐	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-06\2012-12-06_001.xad

Created: 12/6/2012 9:40:09 AM
Modified: 12/6/2012 10:53:49 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

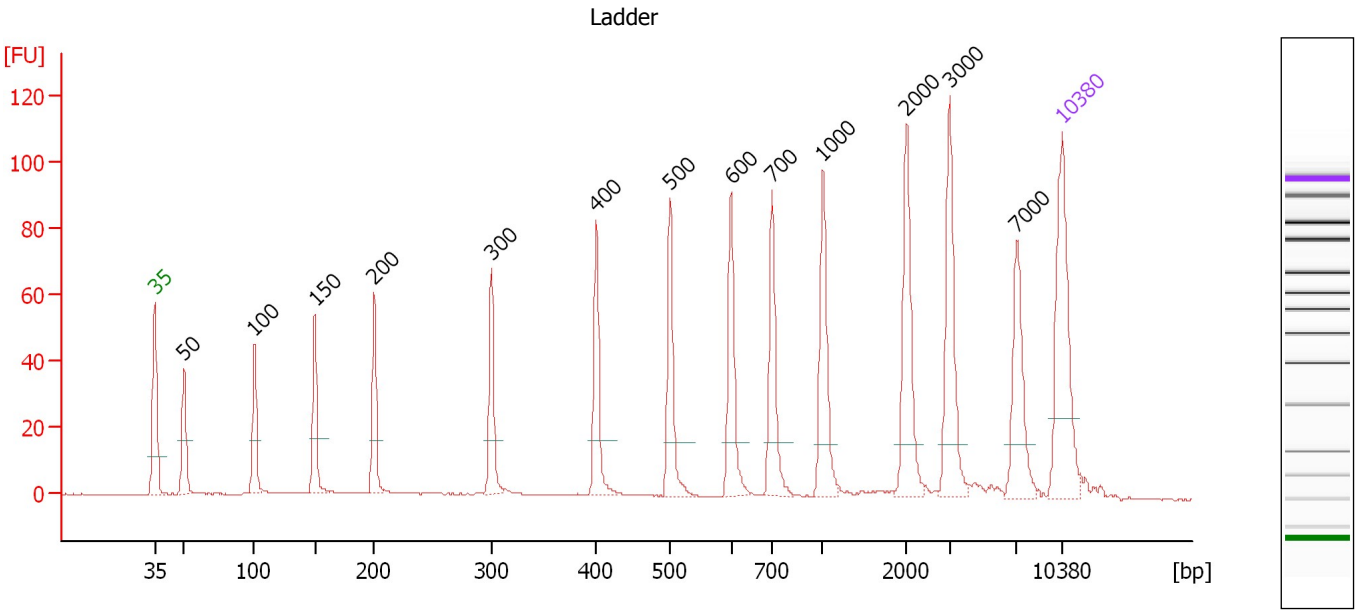
Ladder

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\2012-12-06\2012-12-06_001.xad

Created: 12/6/2012 9:40:09 AM
Modified: 12/6/2012 10:53:49 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

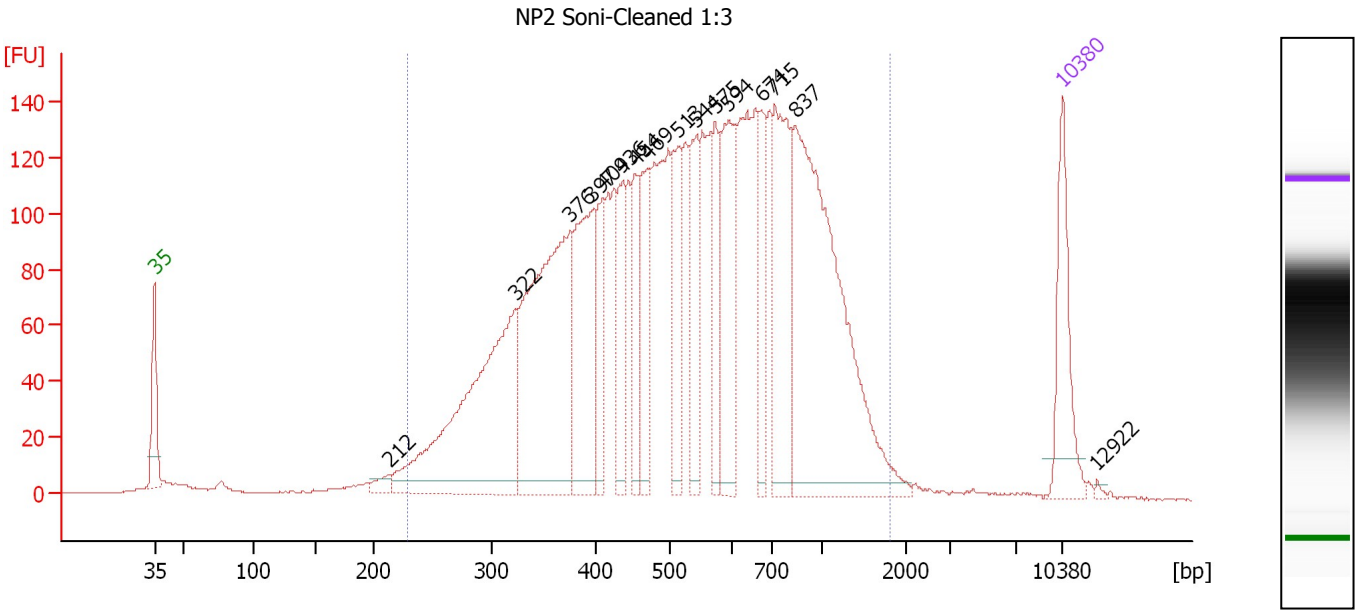
Peak table for Ladder

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\2012-12-06\2012-12-06_001.xad

Created: 12/6/2012 9:40:09 AM
Modified: 12/6/2012 10:53:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : NP2 Soni-Cleaned 1:3

Number of peaks found:	16	Corr. Area 1:	4,097.5
Noise:	0.2		

Peak table for sample 3 : NP2 Soni-Cleaned 1:3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	212	14.19	101.2	
3	322	386.25	1,816.3	
4	376	383.14	1,545.3	
5	397	186.35	712.0	
6	409	76.54	283.5	
7	436	79.48	276.0	
8	454	69.98	233.8	
9	469	102.76	331.9	
10	513	94.10	277.8	
11	544	92.15	256.7	
12	575	74.67	196.9	
13	594	141.56	360.8	
14	674	70.50	158.5	
15	715	169.99	360.4	
16	837	445.32	805.9	
17	10,380	75.00	10.9	Upper Marker
18	12,922	0.00	0.0	

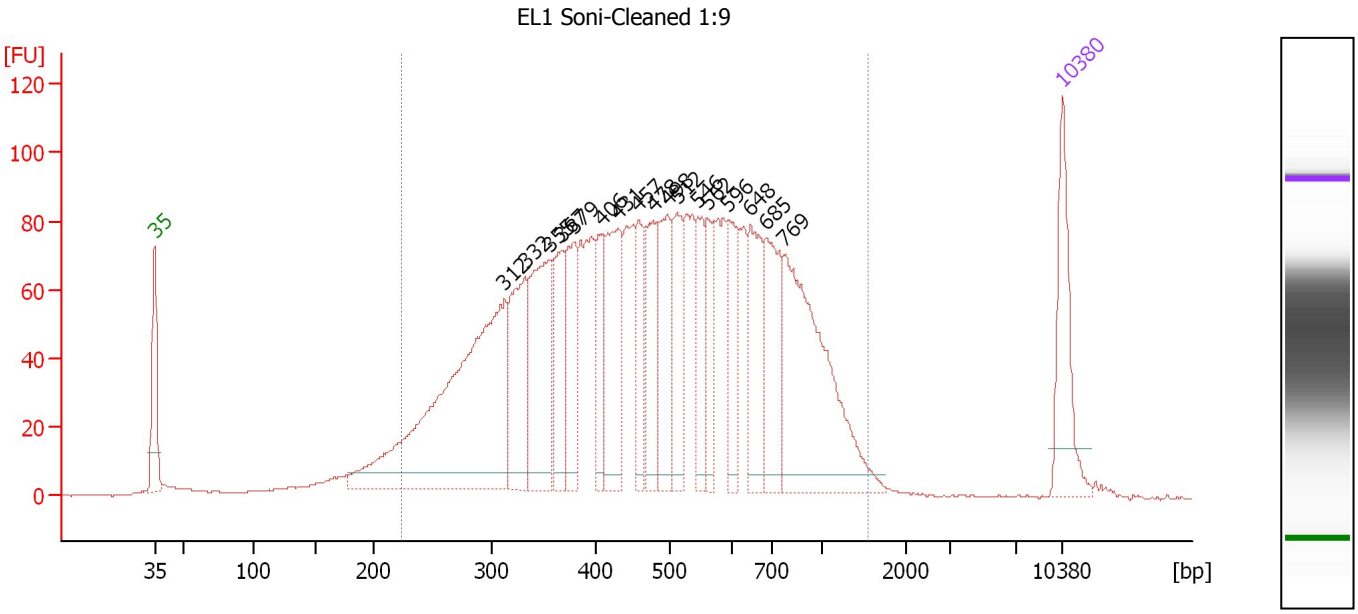
Region table for sample 3 : NP2 Soni-Cleaned 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
227	1,800	594	10,138.8	3,153.28	4,097.5	96	45.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-06\2012-12-06_001.xad

Created: 12/6/2012 9:40:09 AM
Modified: 12/6/2012 10:53:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : EL1 Soni-Cleaned 1:9

Number of peaks found:	17	Corr. Area 1:	2,809.7
Noise:	0.2		

Peak table for sample 4 : EL1 Soni-Cleaned 1:9

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	312	488.25	2,368.3	
3	332	129.61	591.7	
4	355	165.84	708.0	
5	367	90.11	372.3	
6	379	90.58	362.5	
7	406	62.77	234.0	
8	431	129.41	455.2	
9	457	58.78	194.7	
10	478	80.08	254.0	
11	498	106.88	325.4	
12	512	83.87	248.1	
13	546	62.32	173.1	
14	562	56.55	152.6	
15	596	60.83	154.7	
16	648	94.78	221.8	
17	685	101.24	224.0	
18	769	262.91	518.1	
19	10,380	75.00	10.9	Upper Marker

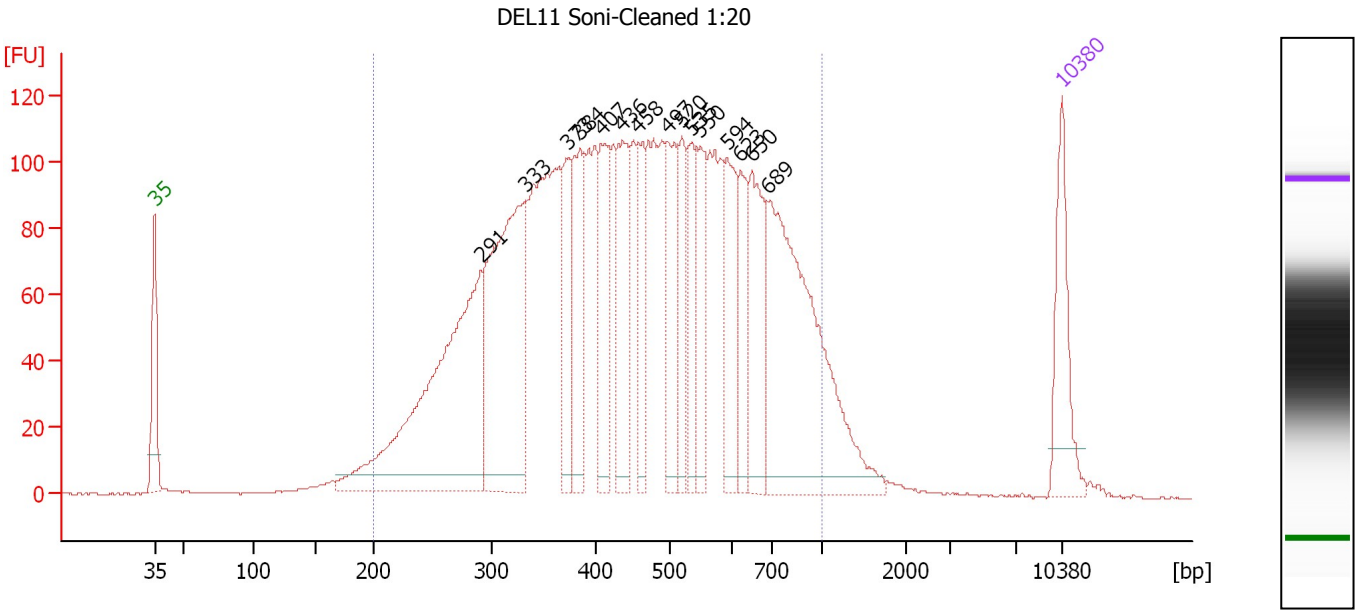
Region table for sample 4 : EL1 Soni-Cleaned 1:9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
224	1,542	521	9,607.6	2,681.06	2,809.7	94	42.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-06\2012-12-06_001.xad

Created: 12/6/2012 9:40:09 AM
Modified: 12/6/2012 10:53:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : DEL11 Soni-Cleaned 1:20

Number of peaks found:	15	Corr. Area 1:	3,612.8
Noise:	0.2		

Peak table for sample 5 : DEL11 Soni-Cleaned 1:20

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	291	479.87	2,496.2	
3	333	374.31	1,704.8	
4	373	93.77	380.5	
5	384	130.57	515.0	
6	407	116.40	433.1	
7	436	126.35	439.1	
8	458	76.97	254.6	
9	497	103.57	315.8	
10	520	72.54	211.5	
11	535	81.14	229.8	
12	550	83.61	230.2	
13	594	98.16	250.3	
14	623	80.87	196.6	
15	650	121.83	283.9	
16	689	390.31	857.7	
17	10,380	75.00	10.9	Upper Marker

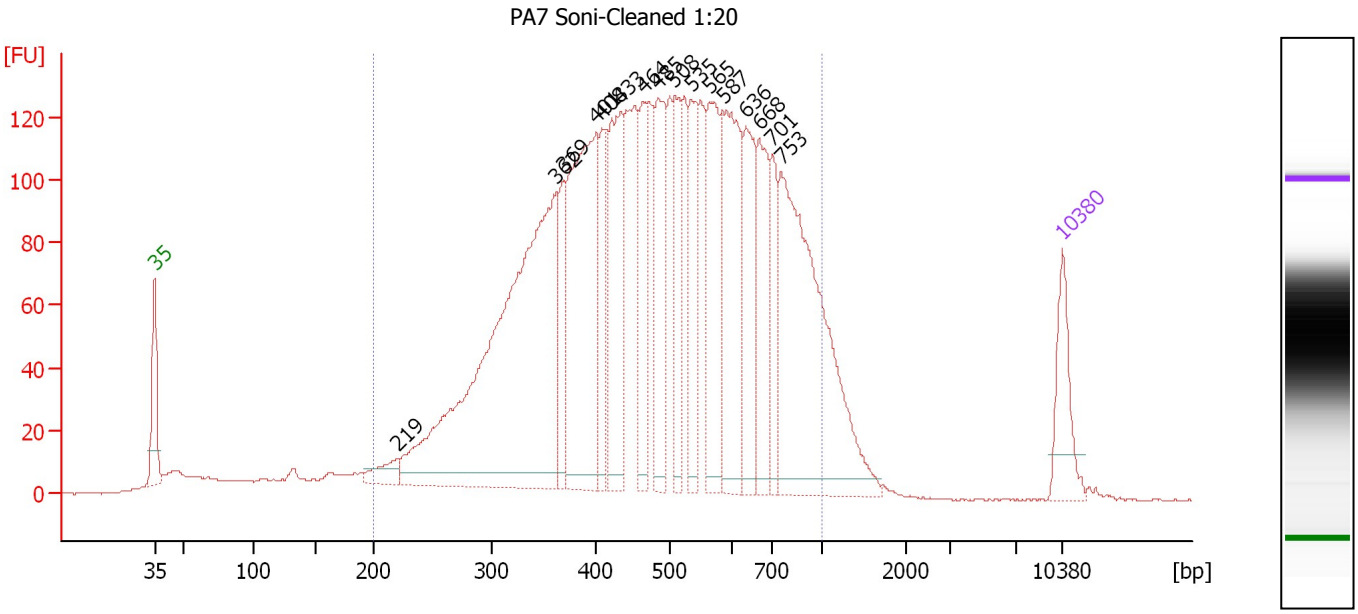
Region table for sample 5 : DEL11 Soni-Cleaned 1:20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	477	12,739.1	3,383.46	3,612.8	95	35.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-06\2012-12-06_001.xad

Created: 12/6/2012 9:40:09 AM
Modified: 12/6/2012 10:53:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : PA7 Soni-Cleaned 1:20

Number of peaks found:	16	Corr. Area 1:	3,693.2
Noise:	0.2		

Peak table for sample 6 : PA7 Soni-Cleaned 1:20

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	219	43.18	298.1	
3	362	1,003.03	4,200.8	
4	369	113.73	466.9	
5	401	460.16	1,740.1	
6	408	124.83	464.1	
7	433	243.54	851.8	
8	464	128.78	420.5	
9	485	186.65	583.7	
10	508	135.69	404.6	
11	535	138.43	392.1	
12	565	218.06	585.0	
13	587	261.17	673.6	
14	636	162.11	386.0	
15	668	156.89	355.7	
16	701	92.89	200.8	
17	753	554.54	1,115.3	
18	10,380	75.00	10.9	Upper Marker

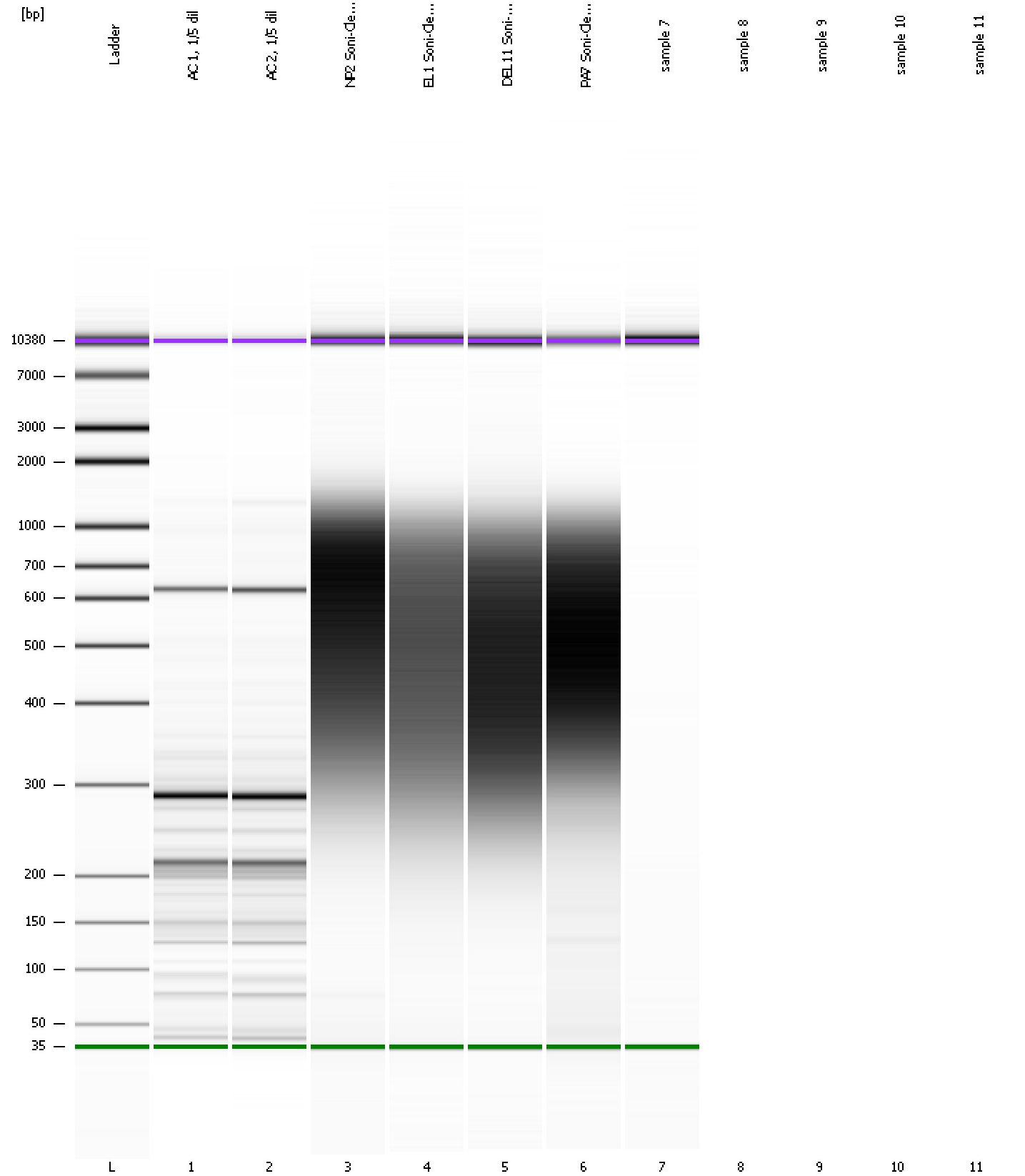
Region table for sample 6 : PA7 Soni-Cleaned 1:20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	505	16,853.8	4,821.05	3,693.2	92	32.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-06\2012-12-06_001.xad

Created: 12/6/2012 9:40:09 AM
Modified: 12/6/2012 10:53:49 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-06\2012-12-06_001.xad

Created: 12/6/2012 9:40:09 AM
Modified: 12/6/2012 10:53:49 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		12/6/2012 10:10:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-12-06\2012-12-06_001.xad)		Instrument	Run		12/6/2012 9:40:15 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/6/2012 9:40:15 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/6/2012 9:40:15 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/6/2012 9:40:15 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/6/2012 9:40:15 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/6/2012 9:40:15 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/6/2012 9:40:15 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1