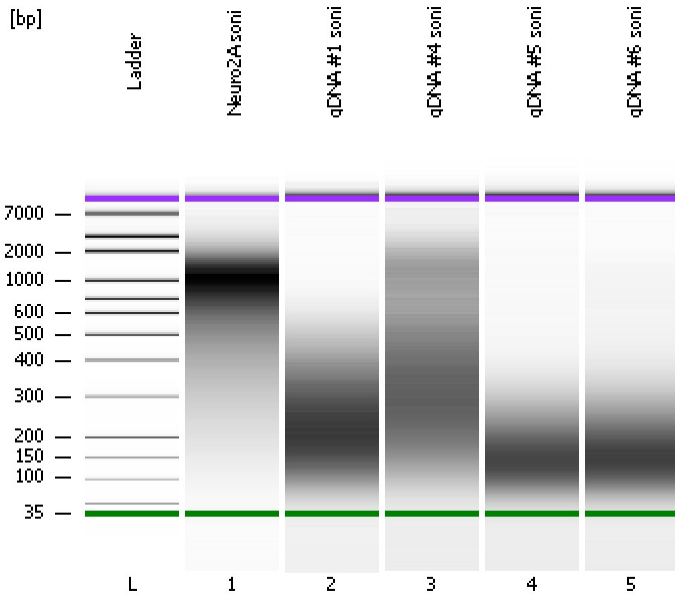


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
 Modified: 3/19/2014 1:18:12 PM

Electrophoresis File Run Summary



Instrument Information:

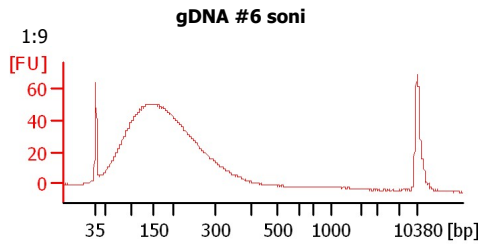
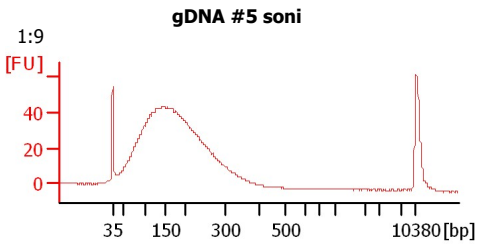
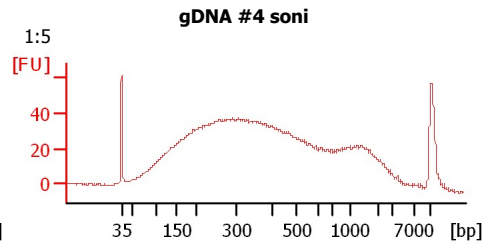
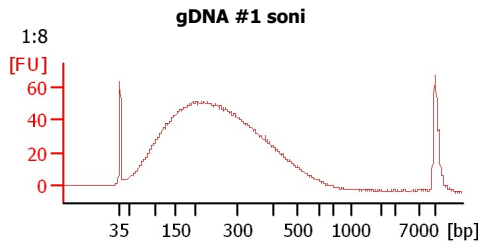
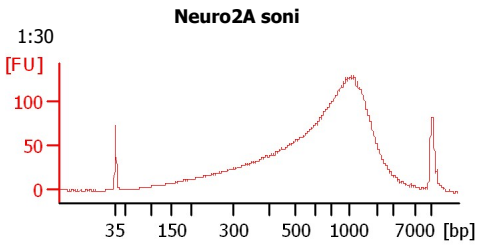
Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
Modified: 3/19/2014 1:18:12 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Neuro2A soni	1:30	<input type="checkbox"/>				
gDNA #1 soni	1:8	<input type="checkbox"/>				
gDNA #4 soni	1:5	<input type="checkbox"/>				
gDNA #5 soni	1:9	<input type="checkbox"/>				
gDNA #6 soni	1:9	<input type="checkbox"/>				
Ladder		<input type="checkbox"/>				

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
Modified: 3/19/2014 1:18:12 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

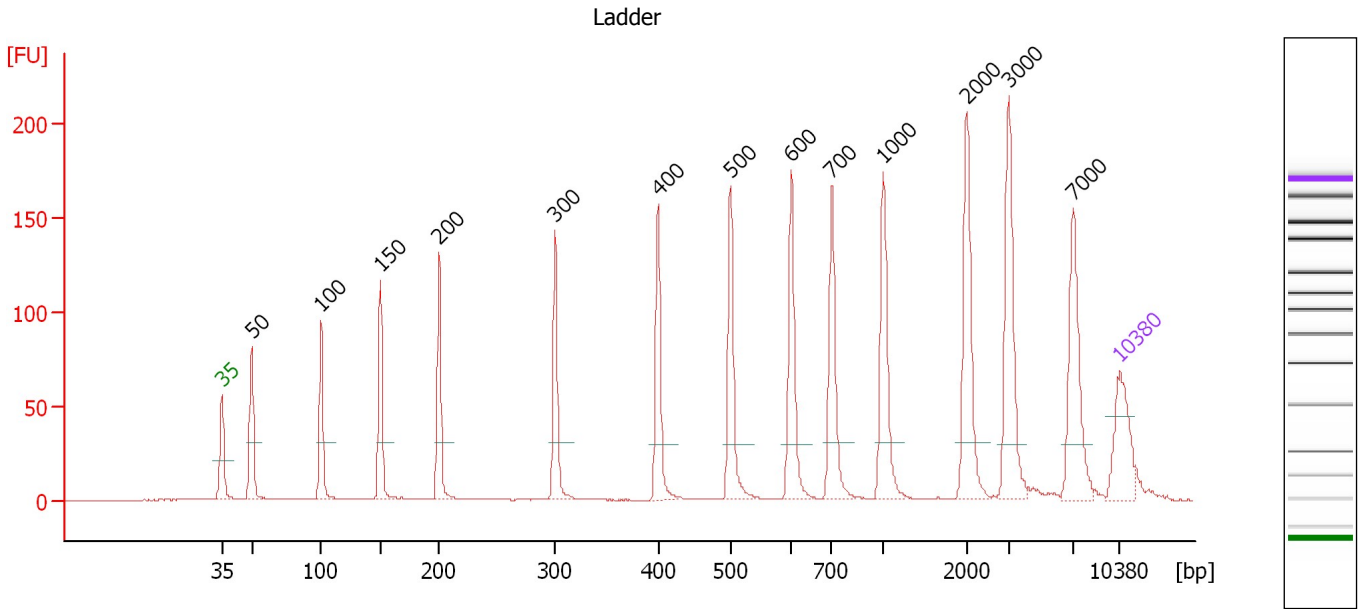
Ladder

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:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
 Modified: 3/19/2014 1:18:12 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

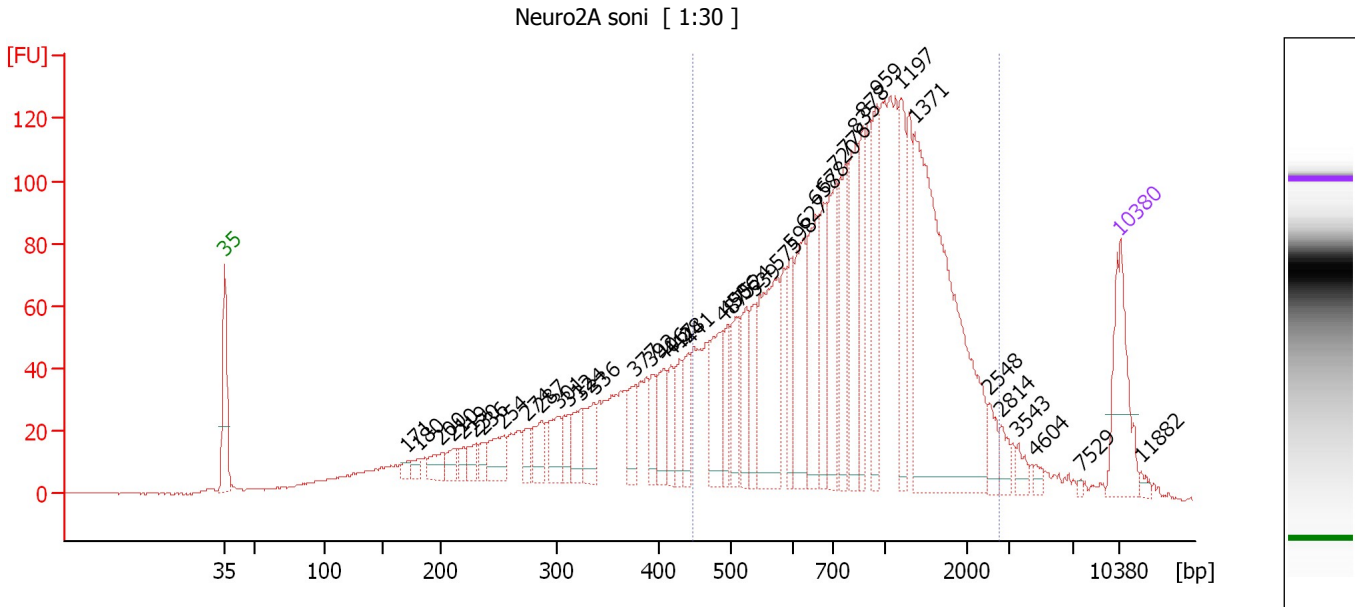
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.29	50	150.00	4,545.5	Ladder Peak
3	50.73	100	150.00	2,272.7	Ladder Peak
4	55.35	150	150.00	1,515.2	Ladder Peak
5	59.92	200	150.00	1,136.4	Ladder Peak
6	68.94	300	150.00	757.6	Ladder Peak
7	76.96	400	150.00	568.2	Ladder Peak
8	82.61	500	150.00	454.5	Ladder Peak
9	87.35	600	150.00	378.8	Ladder Peak
10	90.51	700	150.00	324.7	Ladder Peak
11	94.54	1,000	150.00	227.3	Ladder Peak
12	101.03	2,000	150.00	113.6	Ladder Peak
13	104.31	3,000	150.00	75.8	Ladder Peak
14	109.34	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
 Modified: 3/19/2014 1:18:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Neuro2A soni

Number of peaks found: 43 Corr. Area 1: 2,171.6
 Noise: 0.2

Peak table for sample 1 : Neuro2A soni


Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	57.26	171	10.44	92.5	
3	58.13	180	13.25	111.2	
4	59.93	200	25.39	192.2	
5	60.84	210	19.17	138.2	
6	61.64	219	15.50	107.2	
7	62.59	230	20.24	133.5	
8	63.14	236	16.01	102.9	
9	64.76	254	46.68	278.8	
10	66.60	274	21.85	120.8	
11	67.76	287	35.01	184.8	
12	69.06	301	42.72	214.7	
13	69.89	312	28.64	139.1	
14	70.85	324	36.54	171.0	
15	71.85	336	43.83	197.5	
16	75.10	377	33.17	133.4	
17	76.31	392	34.07	131.7	
18	77.31	406	43.80	163.4	
19	77.90	417	30.64	111.5	
20	78.56	428	34.10	120.6	
21	79.27	441	35.67	122.6	
22	81.90	487	71.47	222.2	
23	82.32	495	38.92	119.2	
24	82.90	506	49.57	148.4	
25	83.77	524	56.88	164.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad


Created: 3/19/2014 12:17:40 PM
 Modified: 3/19/2014 1:18:12 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : Neuro2A soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	84.44	539	44.92	126.4	
27	86.15	575	142.77	376.4	
28	87.23	598	51.43	130.4	
29	88.19	627	89.46	216.3	
30	89.19	658	101.92	234.6	
31	89.82	678	59.37	132.7	
32	90.78	720	95.51	201.0	
33	91.53	776	83.50	163.1	
34	92.32	835	96.31	174.8	
35	92.90	878	67.73	116.9	
36	93.99	959	73.91	116.8	
37	95.82	1,197	75.17	95.1	
38	96.95	1,371	389.67	430.7	
39	102.83	2,548	18.33	10.9	
40	103.70	2,814	14.42	7.8	
41	105.00	3,543	10.46	4.5	
42	106.33	4,604	5.70	1.9	
43	109.91	7,529	2.16	0.4	
44	 113.00	10,380	75.00	10.9	Upper Marker
45	114.63	11,882	0.00	0.0	

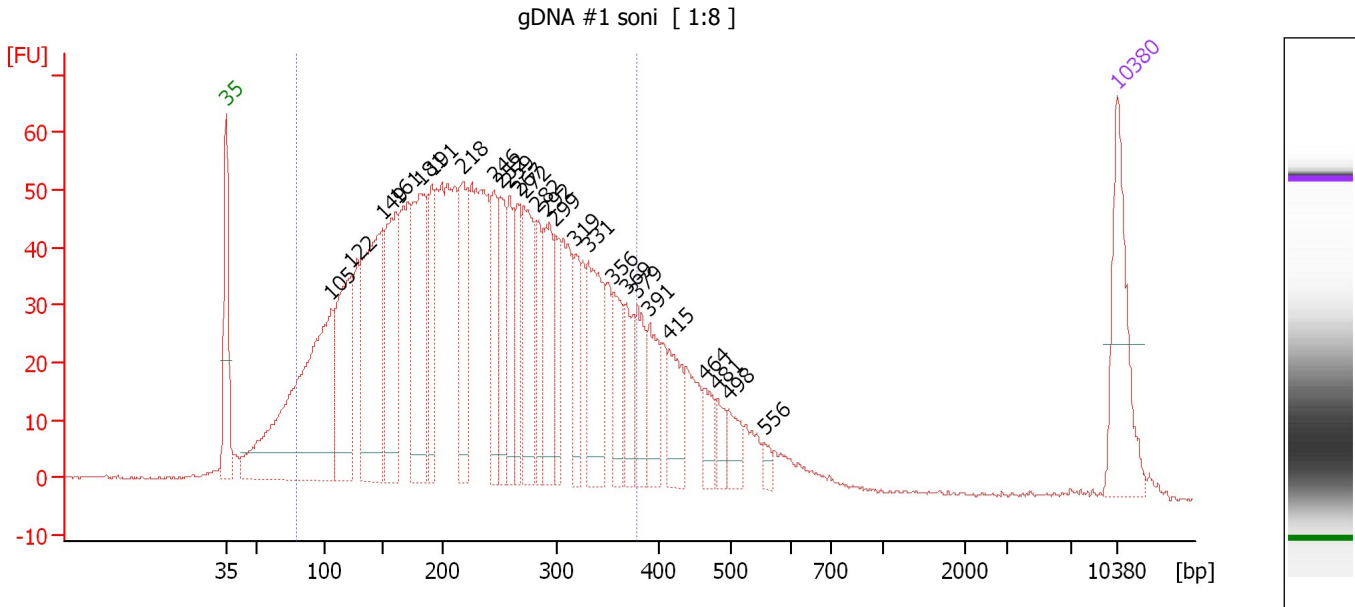
Region table for sample 1 : Neuro2A soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
448	2,763	1,004	4,118.6	2,116.07	 2,171.6	67	49.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
 Modified: 3/19/2014 1:18:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : gDNA #1 soni

Number of peaks found: 26 Corr. Area 1: 1,923.1
 Noise: 0.2

Peak table for sample 2 : gDNA #1 soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	51.22	105	414.75	5,970.9	
3	52.77	122	176.40	2,189.8	
4	55.24	149	251.81	2,563.2	
5	56.33	161	157.90	1,488.3	
6	58.22	181	184.35	1,540.0	
7	59.14	191	79.64	630.2	
8	61.53	218	114.77	798.3	
9	64.04	246	72.62	447.8	
10	64.59	252	75.39	453.7	
11	65.26	259	63.27	369.9	
12	65.93	267	65.95	374.8	
13	66.39	272	109.36	609.8	
14	67.35	282	55.38	297.1	
15	68.19	292	81.74	424.6	
16	68.82	299	50.62	256.8	
17	70.46	319	47.70	226.6	
18	71.46	331	111.36	509.1	
19	73.43	356	54.18	230.6	
20	74.44	369	44.37	182.4	
21	75.28	379	50.20	200.7	
22	76.24	391	51.75	200.5	
23	77.79	415	50.11	183.1	
24	80.56	464	25.99	84.9	
25	81.56	481	18.41	57.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
 Modified: 3/19/2014 1:18:12 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : gDNA #1 soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
26	82.53	498	25.30	76.9	
27	85.25	556	8.67	23.6	
28	113.00	10,380	75.00	10.9	Upper Marker

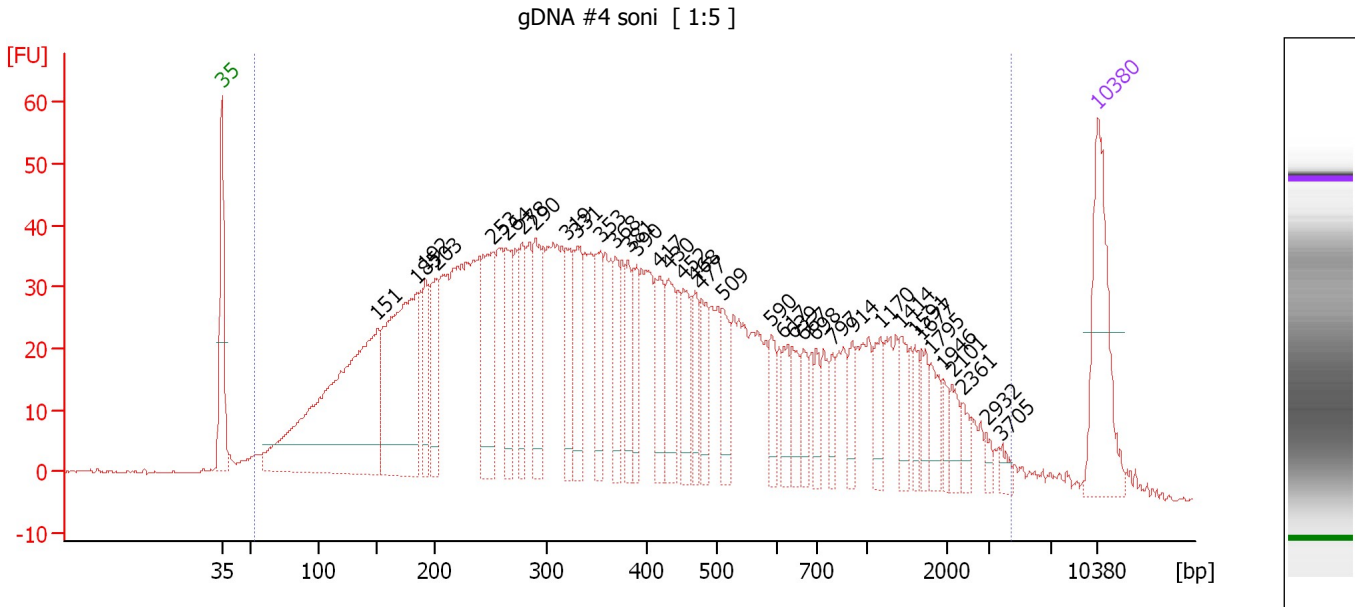
Region table for sample 2 : gDNA #1 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
80	379	227	24,918.0	3,012.61	1,923.1	83	34.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
 Modified: 3/19/2014 1:18:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : gDNA #4 soni

Number of peaks found: 37 Corr. Area 1: 2,233.7
 Noise: 0.2

Peak table for sample 3 : gDNA #4 soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	55.41	151	405.29	4,076.0	
3	58.56	185	250.89	2,053.1	
4	59.20	192	54.51	429.9	
5	60.18	203	61.04	455.8	
6	64.66	253	103.61	621.7	
7	65.68	264	57.32	329.2	
8	66.96	278	48.85	266.2	
9	68.02	290	66.17	345.9	
10	70.50	319	43.76	207.6	
11	71.39	331	62.17	284.9	
12	73.23	353	45.89	196.7	
13	74.42	368	37.41	153.9	
14	75.44	381	35.45	140.9	
15	76.12	390	36.95	143.7	
16	77.91	417	46.05	167.4	
17	78.68	430	47.04	165.6	
18	79.88	452	40.03	134.3	
19	80.81	468	30.14	97.6	
20	81.33	477	36.96	117.4	
21	83.03	509	35.61	106.0	
22	86.87	590	22.41	57.6	
23	87.89	617	21.24	52.2	
24	88.57	639	23.62	56.0	
25	89.47	667	20.76	47.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
 Modified: 3/19/2014 1:18:12 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : gDNA #4 soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
26	90.45	698	16.68	36.2	
27	91.81	797	15.60	29.7	
28	93.39	914	18.15	30.1	
29	95.65	1,170	25.40	32.9	
30	97.23	1,414	20.10	21.5	
31	98.38	1,591	13.30	12.7	
32	98.93	1,677	13.52	12.2	
33	99.70	1,795	19.04	16.1	
34	100.68	1,946	9.57	7.4	
35	101.36	2,101	14.52	10.5	
36	102.21	2,361	9.81	6.3	
37	104.09	2,932	5.40	2.8	
38	105.20	3,705	5.81	2.4	
39	113.00	10,380	75.00	10.9	Upper Marker

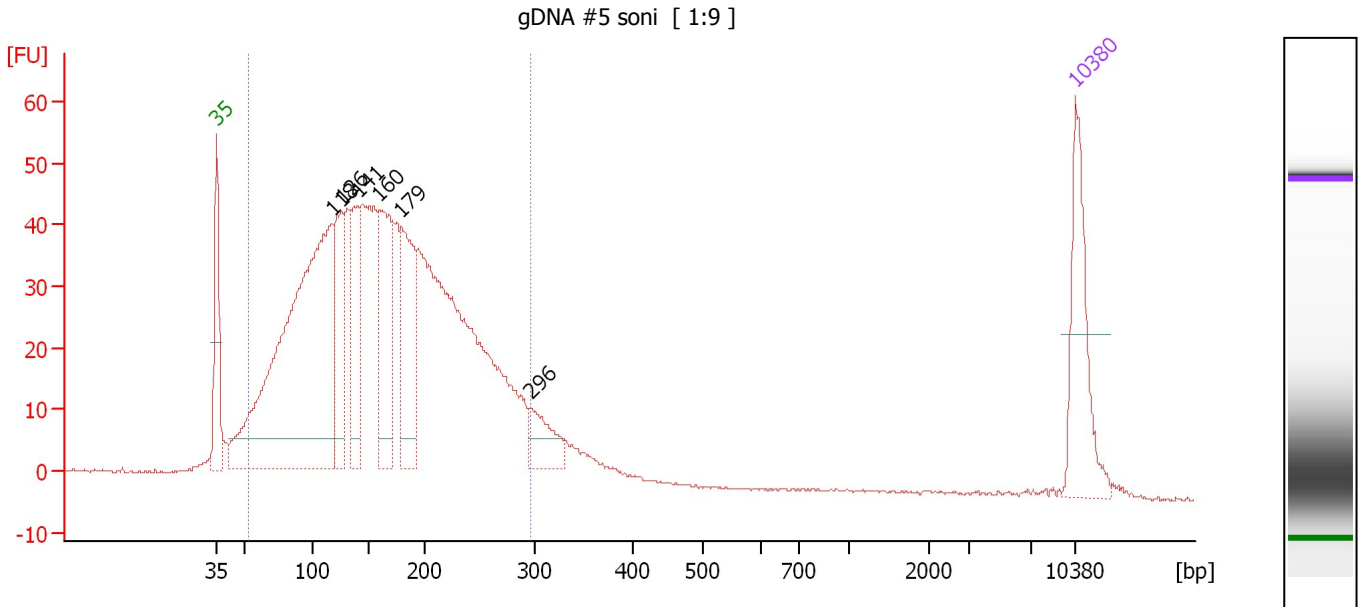
Region table for sample 3 : gDNA #4 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
53	4,378	559	19,667.1	3,187.03	2,233.7	98	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
 Modified: 3/19/2014 1:18:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : gDNA #5 soni

Number of peaks found: 6 Corr. Area 1: 1,287.5
 Noise: 0.2

Peak table for sample 4 : gDNA #5 soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	52.39	118	689.03	8,848.5	
3	53.17	126	122.76	1,470.7	
4	54.48	141	102.72	1,106.9	
5	56.22	160	170.19	1,616.3	
6	58.00	179	144.20	1,220.4	
7	68.61	296	46.17	236.1	
8	113.00	10,380	75.00	10.9	Upper Marker

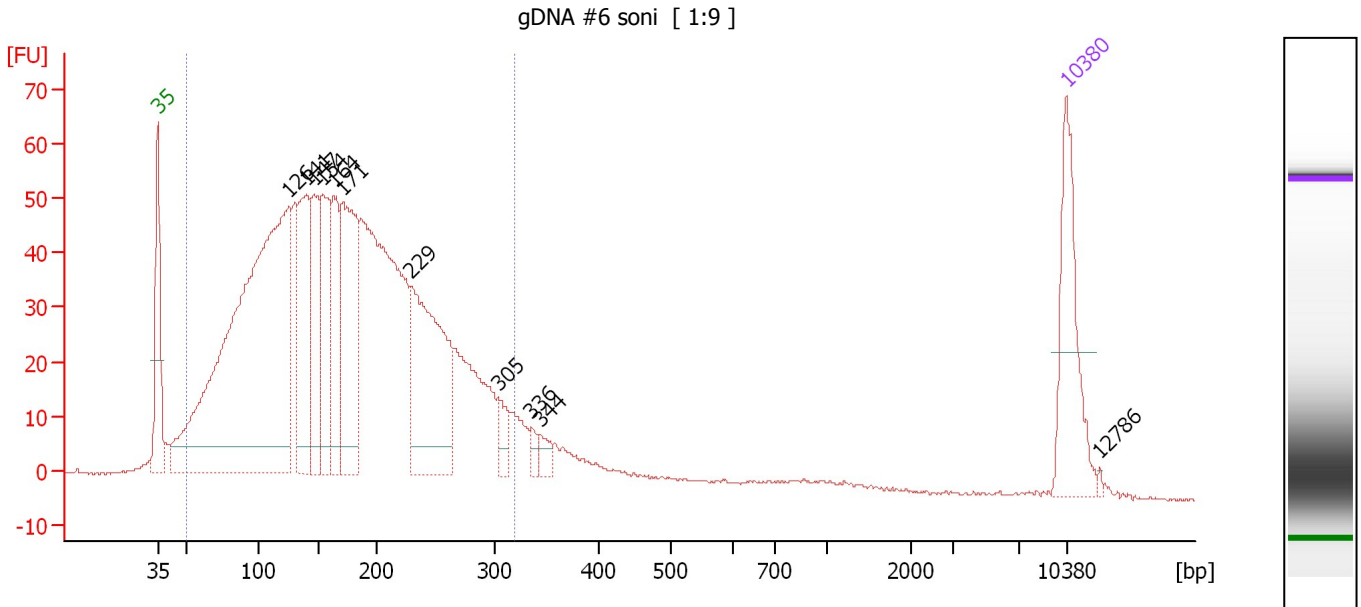
Region table for sample 4 : gDNA #5 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
53	296	164	25,179.0	2,235.92	1,287.5	92	36.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
 Modified: 3/19/2014 1:18:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : gDNA #6 soni

Number of peaks found: 11 Corr. Area 1: 1,595.6
 Noise: 0.2

Peak table for sample 5 : gDNA #6 soni

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.15	126	792.20	9,509.5	
3	54.48	141	148.13	1,596.6	
4	55.05	147	106.66	1,101.0	
5	55.76	154	116.70	1,144.6	
6	56.59	164	93.10	862.0	
7	57.26	171	192.73	1,708.8	
8	62.55	229	220.40	1,456.9	
9	69.31	305	20.54	102.2	
10	71.82	336	9.04	40.8	
11	72.48	344	12.99	57.2	
12	113.00	10,380	75.00	10.9	Upper Marker
13	115.60	12,786	0.00	0.0	

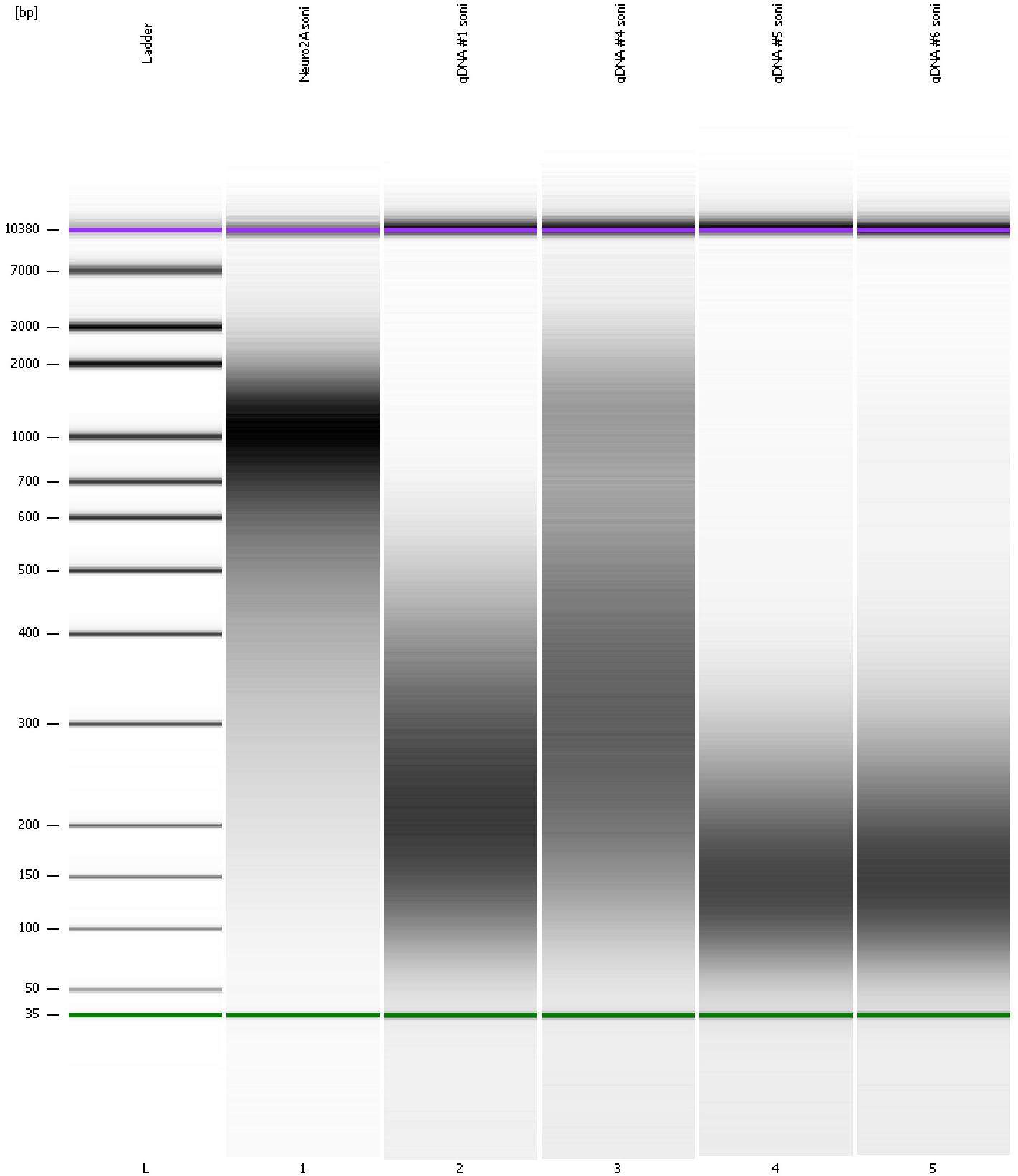
Region table for sample 5 : gDNA #6 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
50	320	172	26,454.7	2,411.13	1,595.6	91	37.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
Modified: 3/19/2014 1:18:12 PM

Gel Image

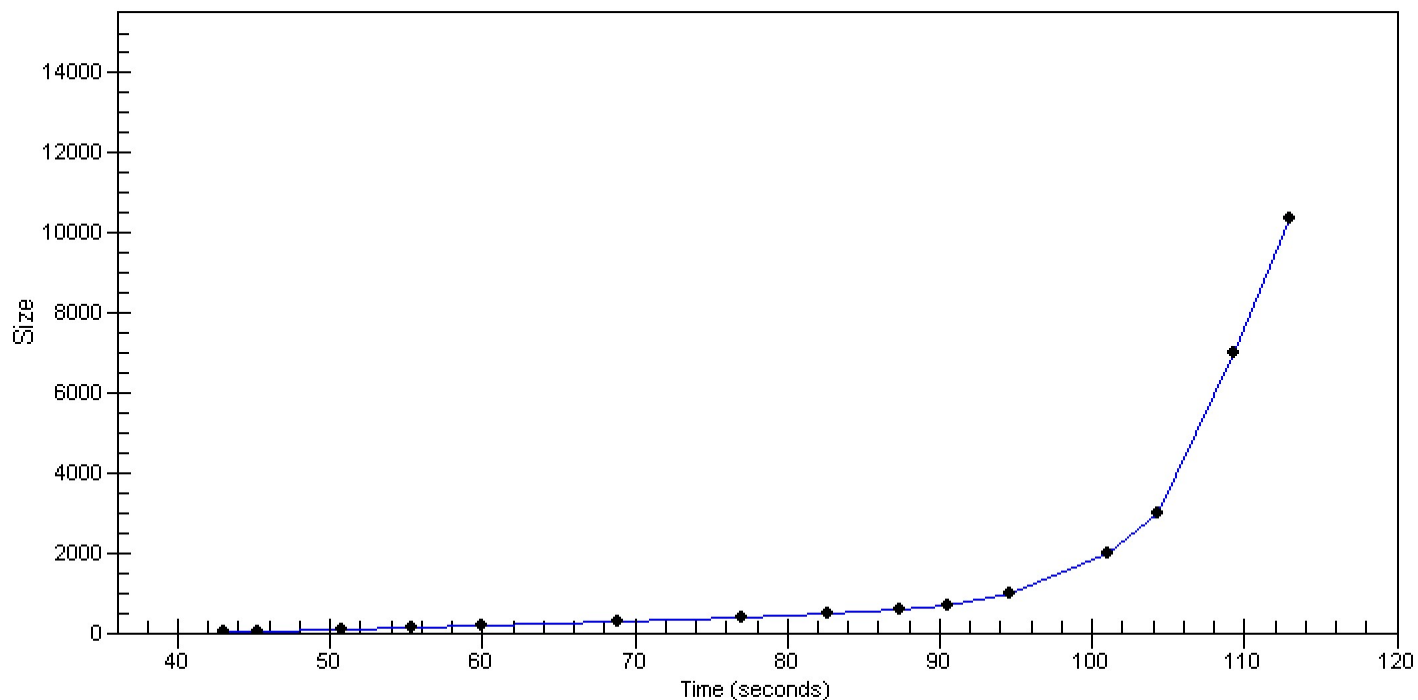


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
Modified: 3/19/2014 1:18:12 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2014-03-19\2014-03-19_004_gDNA_HO.xad

Created: 3/19/2014 12:17:40 PM
 Modified: 3/19/2014 1:18:12 PM

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		3/19/2014 12:58:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-03-19\2014-03-19_004.xad)		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/19/2014 12:17:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1