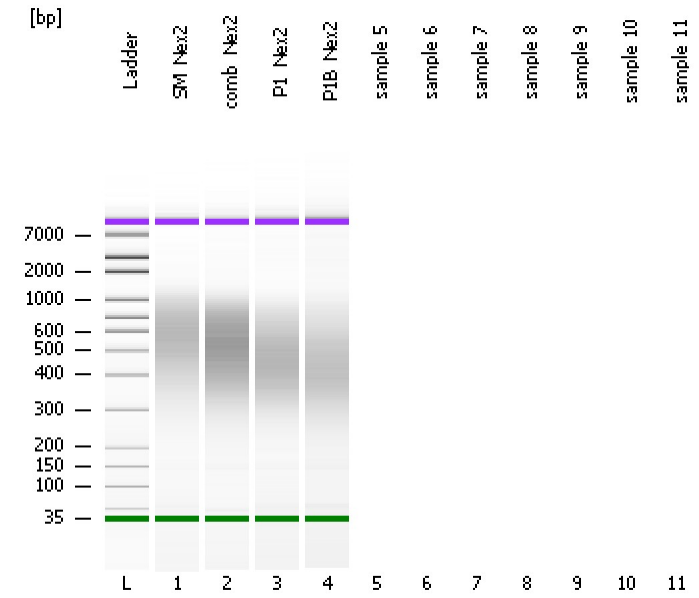
Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_001.xad

Created: 4/11/2017 10:02:53 AM
Modified: 4/11/2017 10:24:16 AM

Electrophoresis File Run Summary



Instrument Information:

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

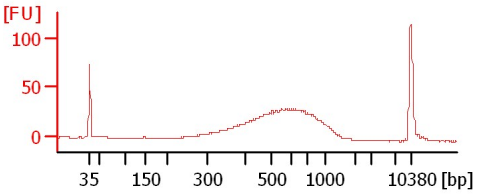
Assay Information:

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

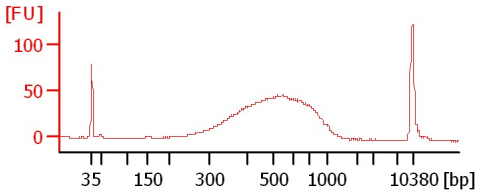
Chip Information:

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

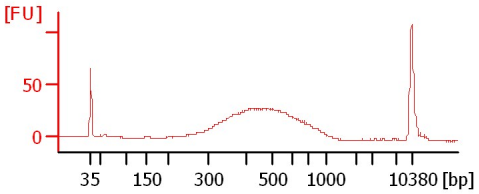
SM_Nex2



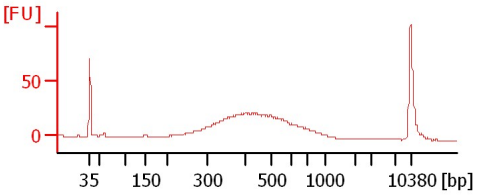
comb_Nex2



P1_Nex2



P1B_Nex2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_001.xad

Created: 4/11/2017 10:02:53 AM
Modified: 4/11/2017 10:24:16 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SM_Nex2		☐	✔			
comb_Nex2		☐	✔			
P1_Nex2		☐	✔			
P1B_Nex2		☐	✔			
sample 5		☐				
sample 6		☐				
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:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_001.xad

Created: 4/11/2017 10:02:53 AM
Modified: 4/11/2017 10:24:16 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\2017-04-11\2017-04-11_001.xad

Created: 4/11/2017 10:02:53 AM
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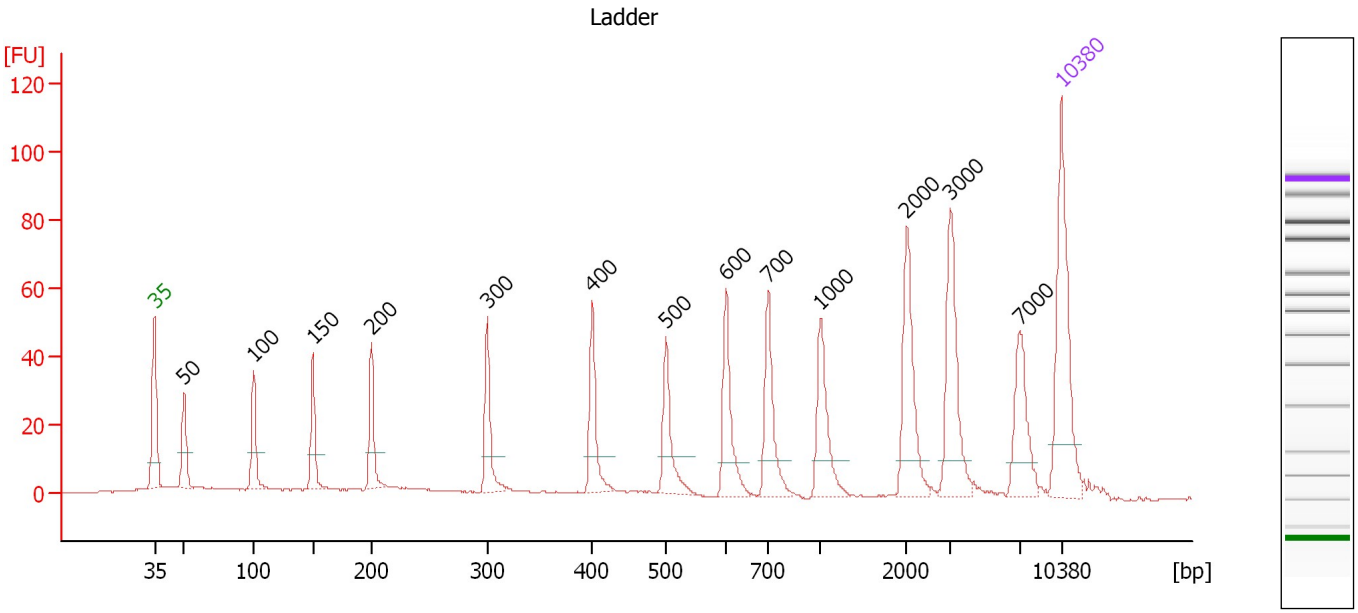
Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

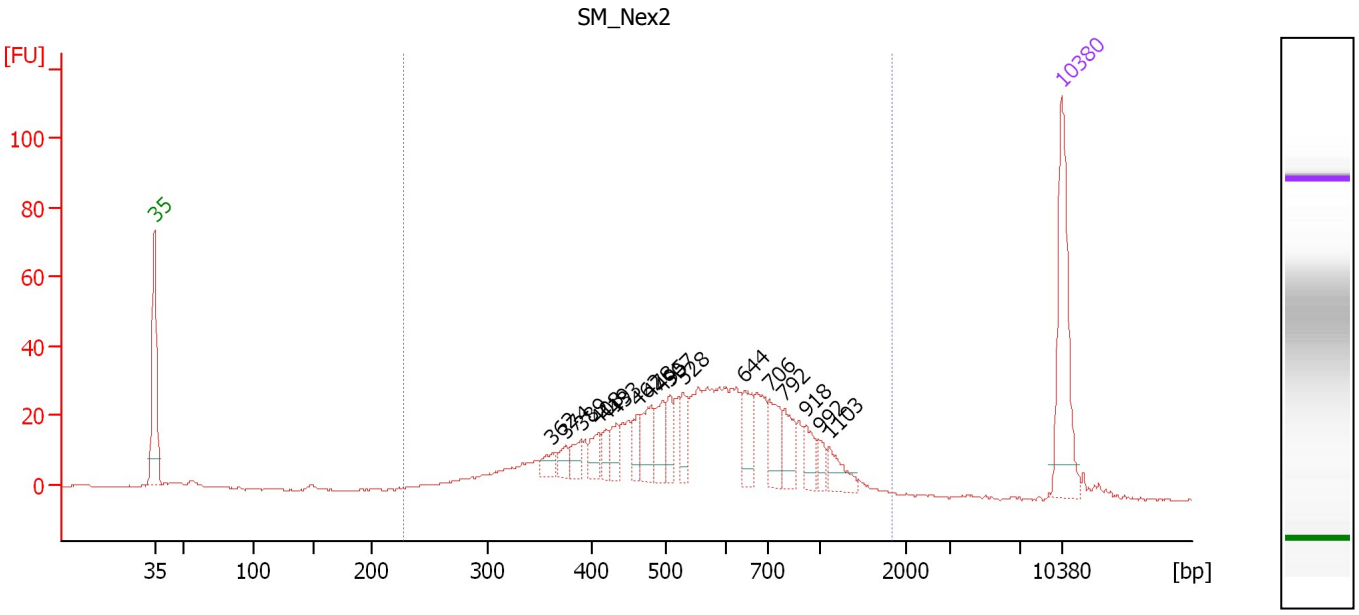
Peak table for Ladder

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1		35	125.00	5,411.3	Lower Marker	43.00
2		50	150.00	4,545.5	Ladder Peak	45.27
3		100	150.00	2,272.7	Ladder Peak	50.64
4		150	150.00	1,515.2	Ladder Peak	55.22
5		200	150.00	1,136.4	Ladder Peak	59.76
6		300	150.00	757.6	Ladder Peak	68.70
7		400	150.00	568.2	Ladder Peak	76.78
8		500	150.00	454.5	Ladder Peak	82.50
9		600	150.00	378.8	Ladder Peak	87.12
10		700	150.00	324.7	Ladder Peak	90.39
11		1,000	150.00	227.3	Ladder Peak	94.41
12		2,000	150.00	113.6	Ladder Peak	101.09
13		3,000	150.00	75.8	Ladder Peak	104.45
14		7,000	150.00	32.5	Ladder Peak	109.81
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_001.xad

Created: 4/11/2017 10:02:53 AM
Modified: 4/11/2017 10:24:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : SM_Nex2

Number of peaks found:	17	Corr. Area 1:	702.4
Noise:	0.2		

Peak table for sample 1 : SM_Nex2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	362	11.73	49.1		73.73
3	374	10.92	44.2		74.70
4	389	14.53	56.5		75.91
5	408	14.85	55.1		77.24
6	419	12.62	45.6		77.87
7	433	16.54	57.9		78.67
8	462	16.86	55.3		80.32
9	478	30.26	95.9		81.25
10	495	25.61	78.3		82.23
11	507	20.07	60.0		82.81
12	528	20.34	58.4		83.79
13	644	30.67	72.2		88.55
14	706	29.81	64.0		90.47
15	792	24.74	47.3		91.63
16	918	17.48	28.8		93.32
17	992	8.36	12.8		94.30
18	1,103	17.55	24.1		95.10
19	10,380	75.00	10.9	Upper Marker	113.00

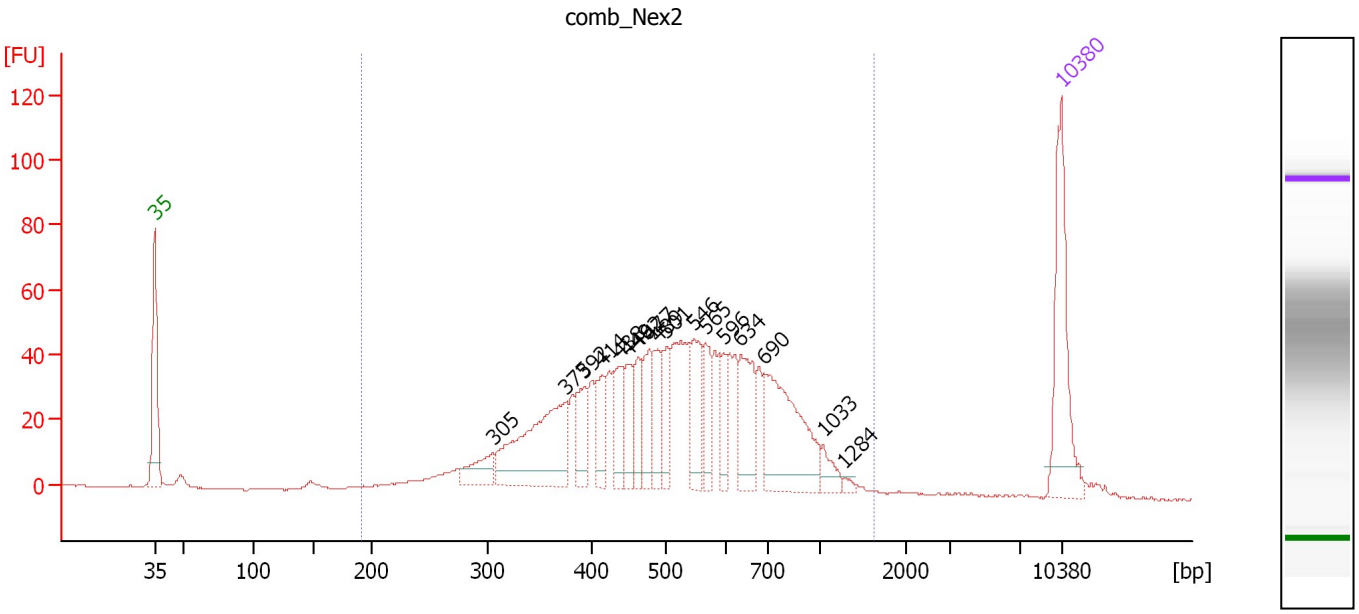
Region table for sample 1 : SM_Nex2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
228	1,832	598	702.4	2,211.2	734.52	96	39.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_001.xad

Created: 4/11/2017 10:02:53 AM
Modified: 4/11/2017 10:24:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : comb_Nex2

Number of peaks found:	17	Corr. Area 1:	1,137.7
Noise:	0.2		

Peak table for sample 2 : comb_Nex2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	305	29.10	144.6		69.11
3	375	133.31	539.4		74.72
4	392	37.50	144.8		76.17
5	414	29.83	109.2		77.57
6	438	32.00	110.8		78.93
7	449	30.55	103.0		79.61
8	462	29.46	96.6		80.33
9	477	37.05	117.7		81.19
10	489	33.27	103.1		81.87
11	501	31.19	94.3		82.55
12	546	41.58	115.4		84.63
13	565	30.93	83.0		85.49
14	596	24.35	61.9		86.94
15	634	53.27	127.2		88.25
16	690	116.16	255.2		90.06
17	1,033	12.90	18.9		94.63
18	1,284	3.16	3.7		96.30
19	10,380	75.00	10.9	Upper Marker	113.00

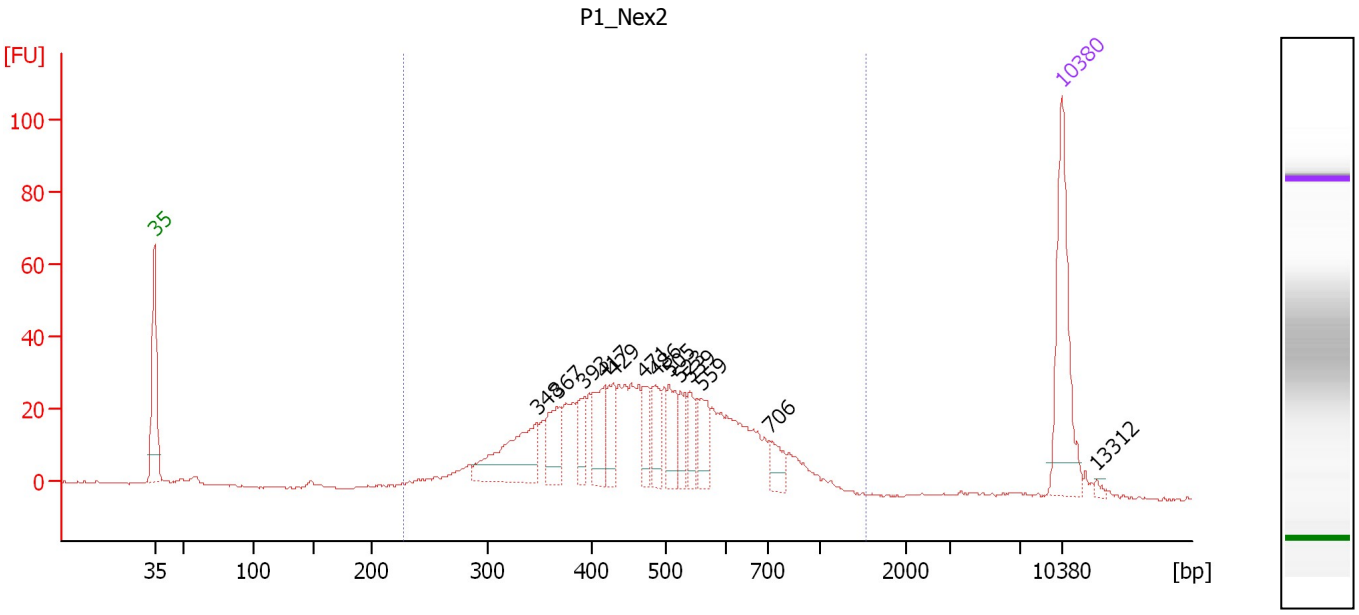
Region table for sample 2 : comb_Nex2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
191	1,625	542	1,137.7	3,340.6	1,027.88	98	35.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_001.xad

Created: 4/11/2017 10:02:53 AM
Modified: 4/11/2017 10:24:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : P1_Nex2

Number of peaks found:	13	Corr. Area 1:	719.2
Noise:	0.2		

Peak table for sample 3 : P1_Nex2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	348	80.96	352.7		72.57
3	367	35.67	147.4		74.09
4	393	21.36	82.4		76.20
5	417	37.60	136.8		77.72
6	429	27.30	96.3		78.46
7	471	23.15	74.5		80.81
8	486	26.13	81.5		81.68
9	505	29.83	89.4		82.74
10	523	20.56	59.5		83.57
11	539	18.57	52.2		84.31
12	559	28.55	77.4		85.23
13	706	18.26	39.2		90.48
14	10,380	75.00	10.9	Upper Marker	113.00
15	13,312	0.00	0.0		115.76

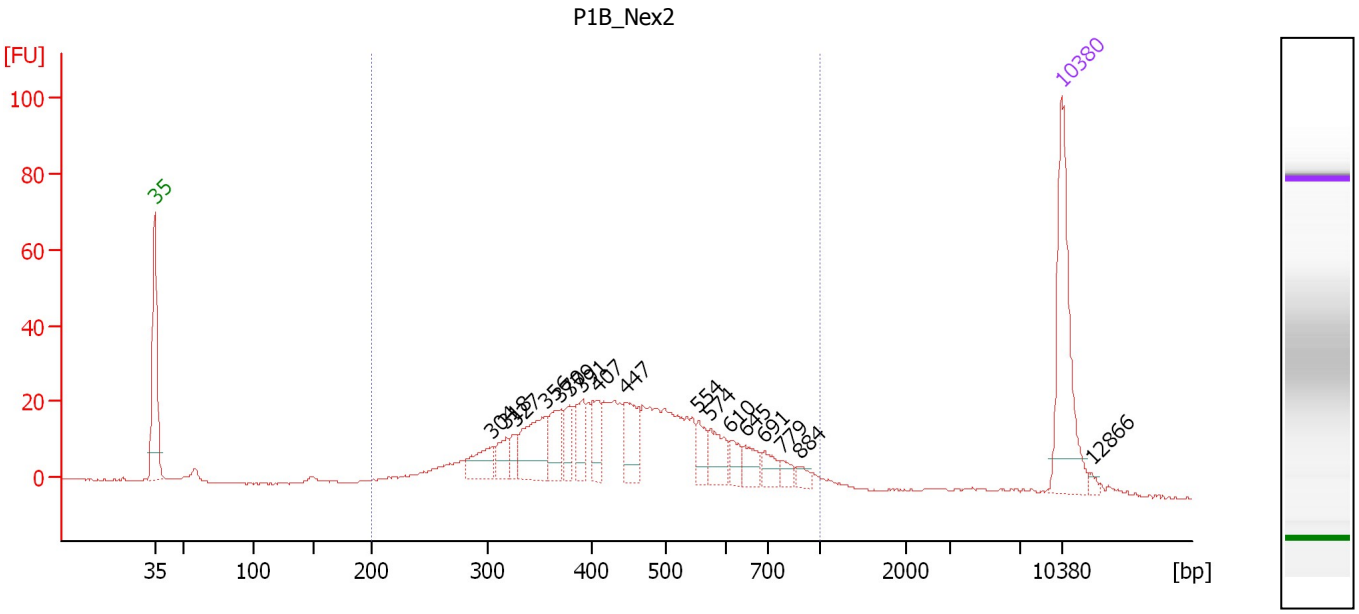
Region table for sample 3 : P1_Nex2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
228	1,521	492	719.2	2,551.8	735.45	96	31.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_001.xad

Created: 4/11/2017 10:02:53 AM
Modified: 4/11/2017 10:24:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : P1B_Nex2

Number of peaks found:	17	Corr. Area 1:	581.5
Noise:	0.2		

Peak table for sample 4 : P1B_Nex2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	304	26.18	130.4		69.05
3	318	17.35	82.6		70.18
4	327	11.27	52.2		70.88
5	356	48.76	207.6		73.22
6	370	29.45	120.6		74.35
7	379	18.18	72.7		75.05
8	391	23.99	93.0		76.03
9	407	23.99	89.2		77.20
10	447	32.63	110.7		79.45
11	554	15.25	41.7		84.98
12	574	23.12	61.0		85.92
13	610	12.10	30.0		87.46
14	645	14.97	35.2		88.59
15	691	12.06	26.5		90.09
16	779	7.86	15.3		91.45
17	884	5.94	10.2		92.85
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,866	0.00	0.0		115.34

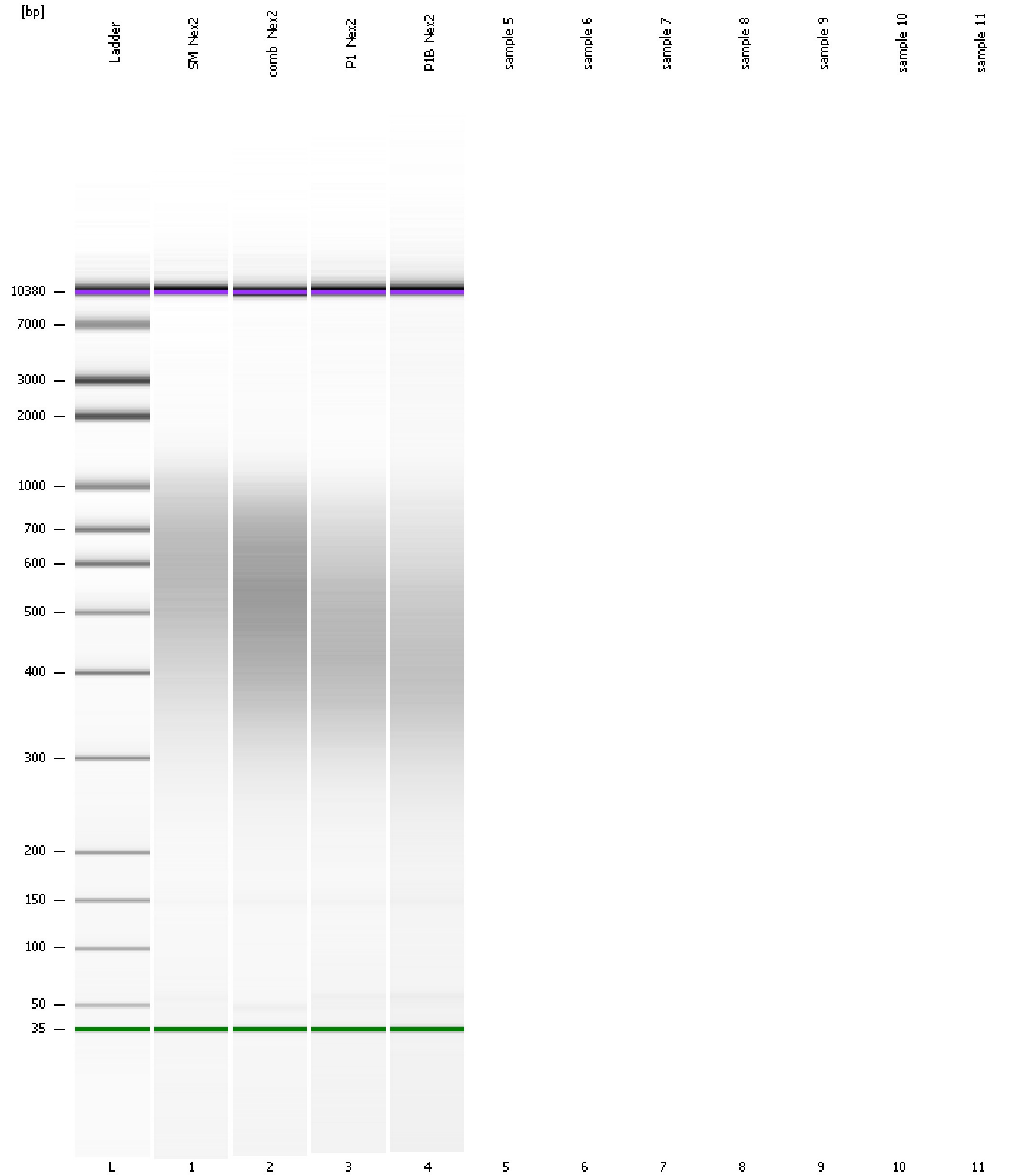
Region table for sample 4 : P1B_Nex2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	462	581.5	2,232.4	601.68	92	30.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_001.xad

Created: 4/11/2017 10:02:53 AM
Modified: 4/11/2017 10:24:16 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_001.xad

Created: 4/11/2017 10:02:53 AM
Modified: 4/11/2017 10:24:16 AM

Invalid Samples

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:\... bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_001.xad

Created: 4/11/2017 10:02:53 AM
Modified: 4/11/2017 10:24:16 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 5)		Instrument	Run		4/11/2017 10:24:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-04-11\2017-04-11_001.xad)		Instrument	Run		4/11/2017 10:02:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/11/2017 10:02:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/11/2017 10:02:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/11/2017 10:02:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/11/2017 10:02:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/11/2017 10:02:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/11/2017 10:02:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1