Assay Class: High Sensitivity DNA Assay   Created: 8/31/2018 11:38:57 AM
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad   Modified: 8/31/2018 12:33:16 PM

Electrophoresis File Run Summary

Instrument Information:

Instrument Name:	DE34903152
Serial#:	DE34903152

Firmware: C.01.069
Type: G2938C

Assay Information:

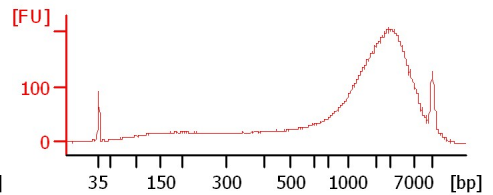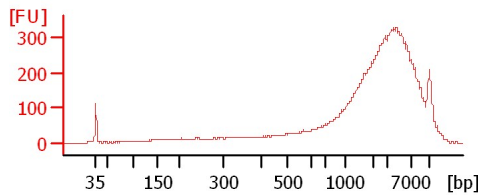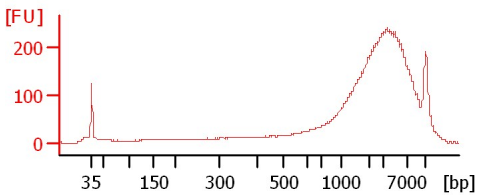|	
Assay Origin Path:	C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class:	High Sensitivity DNA Assay
Version:	1.03
Assay Comments:	Copyright © 2003-2010 Agilent Technologies

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:

sample 1

sample 2

sample 3a

sample 5a
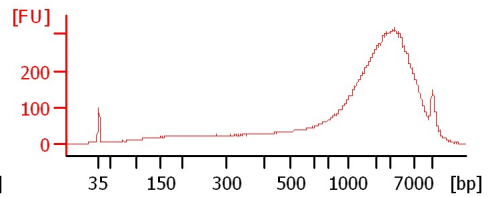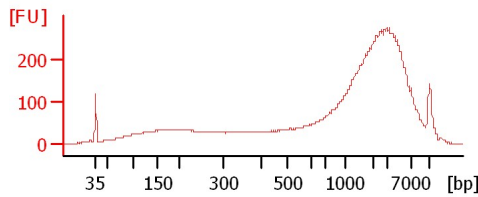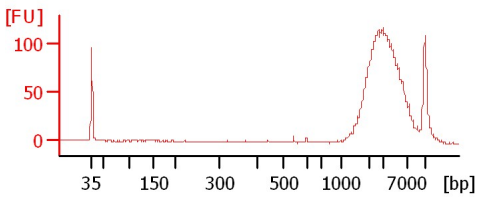
sample 5b

sample 6a

sample 6b

sample 5a 0.1X

sample 5b 0.1X
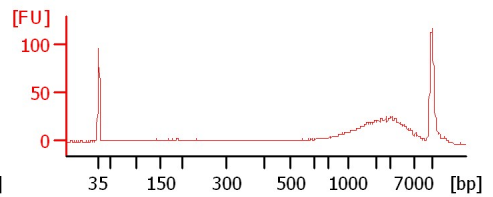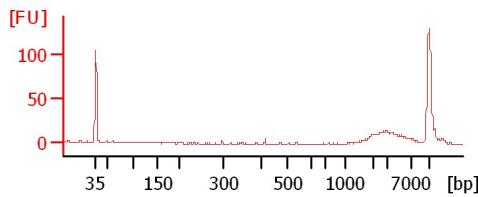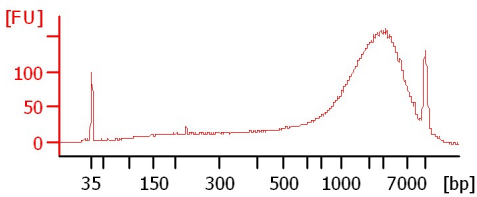
sample 6a 0.1X

sample 6b 0.1X
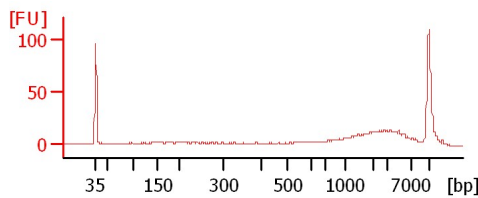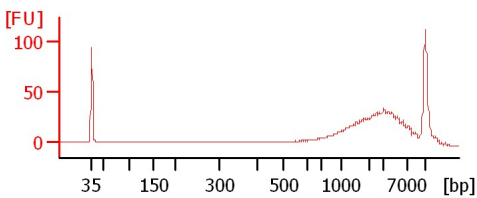
Assay Class: High Sensitivity DNA Assay   Created: 8/31/2018 11:38:57 AM
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad   Modified: 8/31/2018 12:33:16 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		☐	✔			
sample 2		☐	✔			
sample 3a		☐	✔			
sample 5a		☐	✔			
sample 5b		☐	✔			
sample 6a		☐	✔			
sample 6b		☐	✔			
sample 5a 0.1X		☐	✔			
sample 5b 0.1X		☐	✔			
sample 6a 0.1X		☐	✔			
sample 6b 0.1X		☐	✔			
Ladder		☐	✔			

Chip Lot #   **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad

Created: 8/31/2018 11:38:57 AM
Modified: 8/31/2018 12:33:16 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] : 90
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\2018-08-31\2018-08-31_001.xad

Created: 8/31/2018 11:38:57 AM
Modified: 8/31/2018 12:33:16 PM

Electropherogram Summary
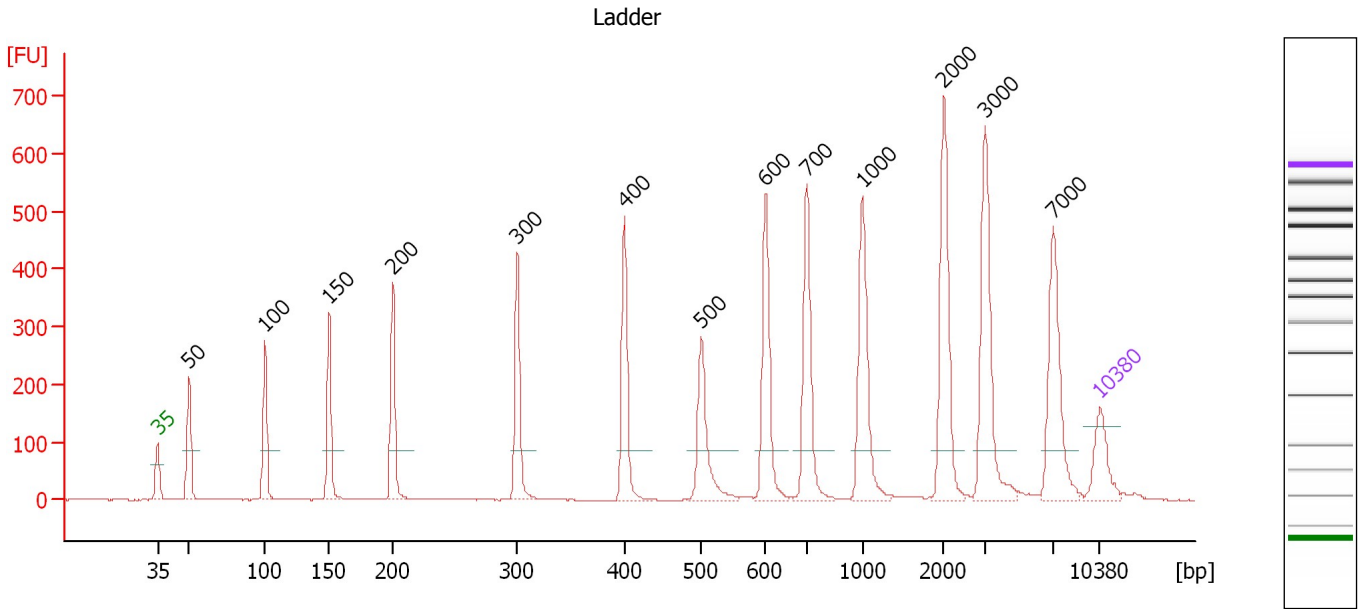
Ladder

Overall Results for Ladder

Noise: 0.3

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	L	50	150.00	4,545.5	Ladder Peak	45.31
3	L	100	150.00	2,272.7	Ladder Peak	50.95
4	L	150	150.00	1,515.2	Ladder Peak	55.74
5	L	200	150.00	1,136.4	Ladder Peak	60.49
6	L	300	150.00	757.6	Ladder Peak	69.73
7	L	400	150.00	568.2	Ladder Peak	77.68
8	L	500	150.00	454.5	Ladder Peak	83.37
9	L	600	150.00	378.8	Ladder Peak	88.16
10	L	700	150.00	324.7	Ladder Peak	91.23
11	L	1,000	150.00	227.3	Ladder Peak	95.38
12	L	2,000	150.00	113.6	Ladder Peak	101.41
13	L	3,000	150.00	75.8	Ladder Peak	104.45
14	L	7,000	150.00	32.5	Ladder Peak	109.49
15	▶	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad

Created: 8/31/2018 11:38:57 AM
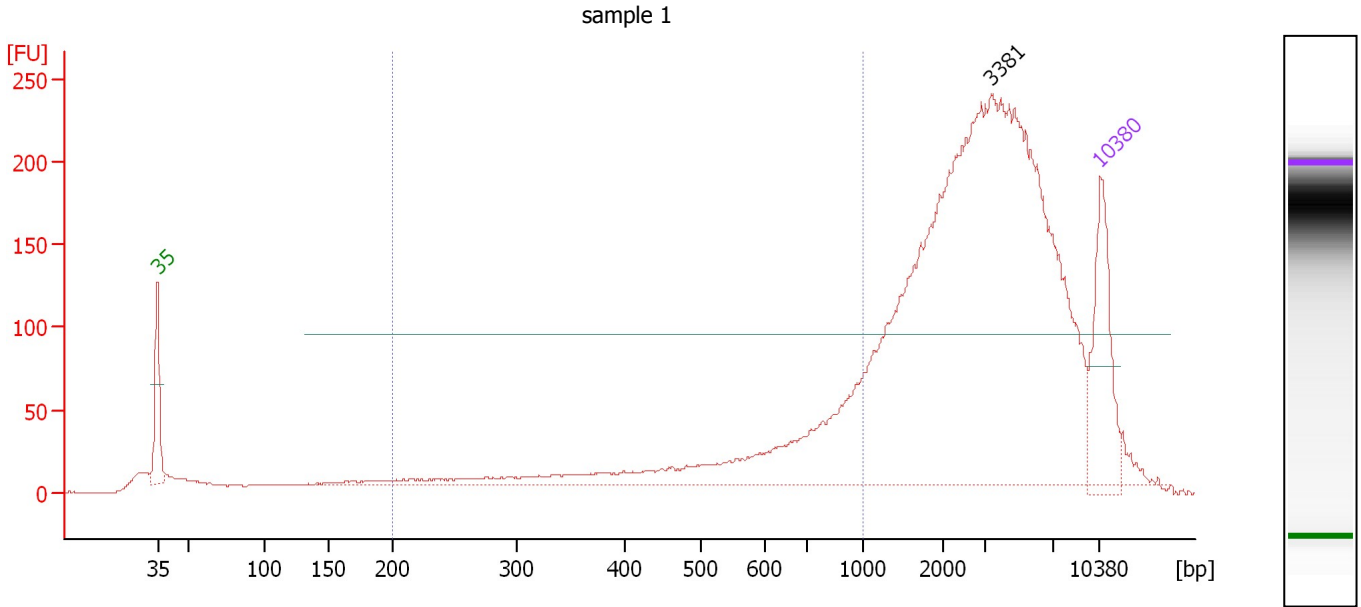Modified: 8/31/2018 12:33:16 PM

Electropherogram Summary Continued ...

sample 1

Overall Results for sample 1 :   sample 1

Number of peaks found:	1	Corr. Area 1:	834.8
Noise:	0.5		

Peak table for sample 1 :   sample 1

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		3,381	1,029.18	461.2		104.93
3	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 1 :   sample 1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	588	339.03	834.8	1,160.3	■ 21	38.9

Assay Class: High Sensitivity DNA Assay   Created: 8/31/2018 11:38:57 AM
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad   Modified: 8/31/2018 12:33:16 PM

Electropherogram Summary Continued ...

sample 2

Overall Results for sample 2 :   sample 2

Number of peaks found:	1	Corr. Area 1:	1,291.9
Noise:	0.8		

Peak table for sample 2 :   sample 2

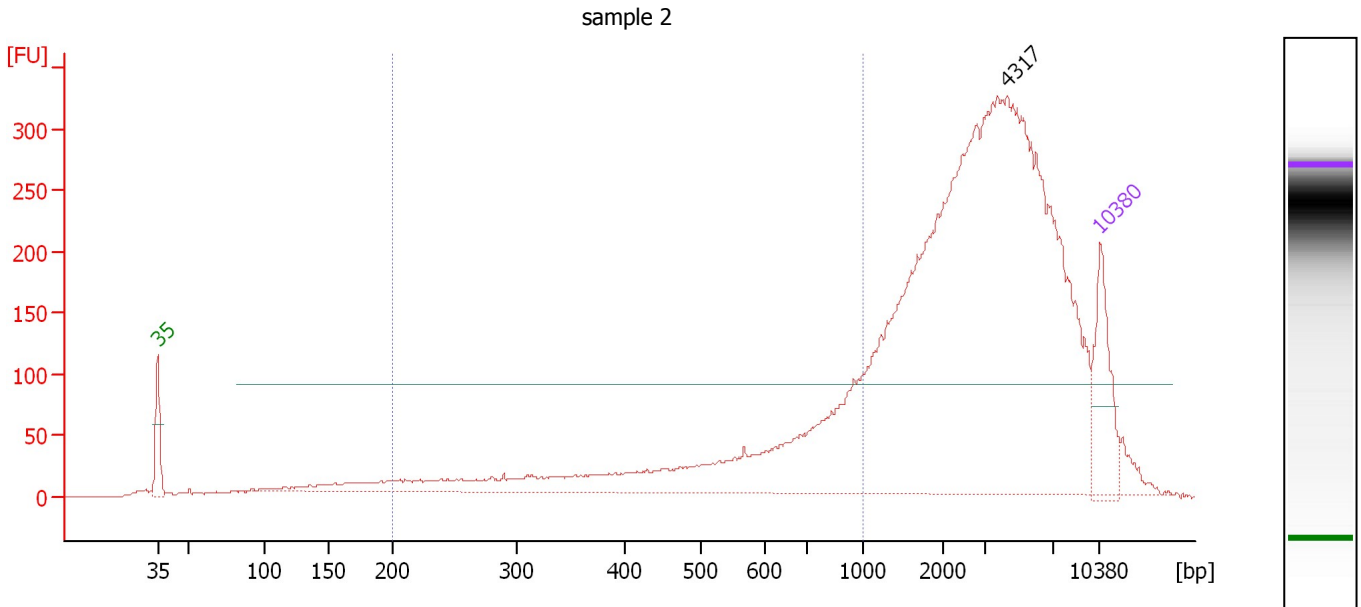| Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◄ 35	125.00	5,411.3	Lower Marker	43.00
2	4,317	1,534.11	538.4		106.11
3	▶ 10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 2 :   sample 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	580	539.00	1,291.9	1,876.2	■ 24	39.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad

Created: 8/31/2018 11:38:57 AM
Modified: 8/31/2018 12:33:16 PM

Electropherogram Summary Continued ...

sample 3a

Overall Results for sample 3 : sample 3a

Number of peaks found:	1	Corr. Area 1:	1,233.6
Noise:	0.9		

Peak table for sample 3 : sample 3a

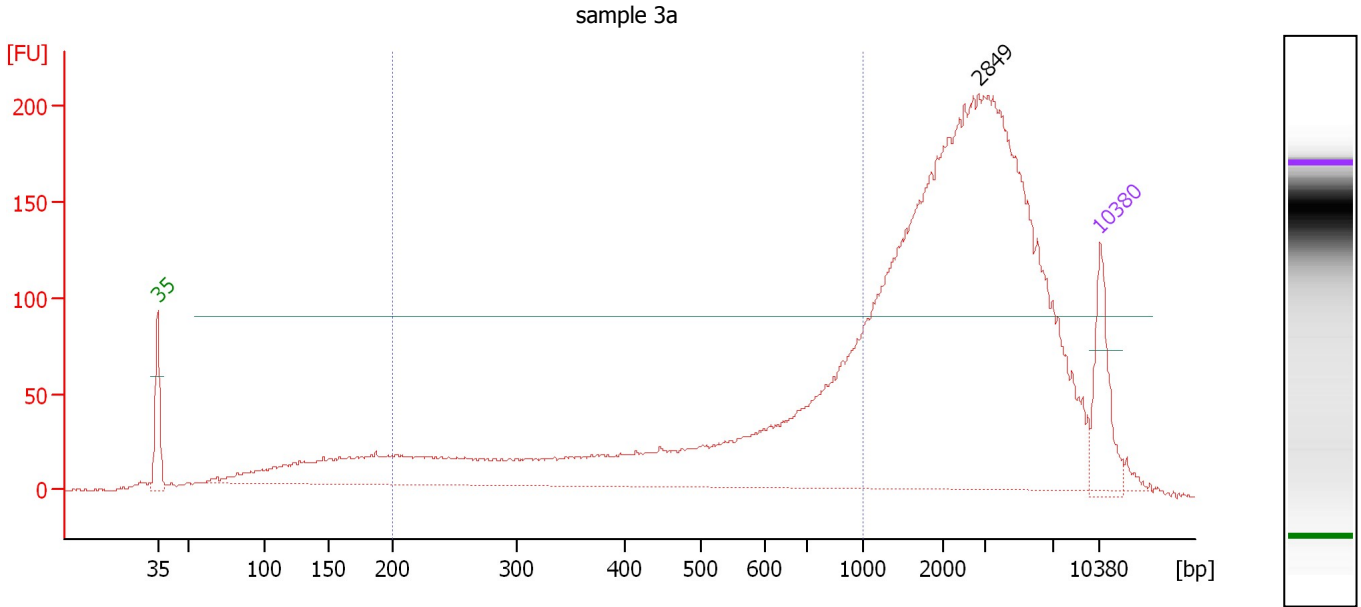| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		2,849	1,832.49	974.7		103.99
3	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 3 : sample 3a

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Color % of Total	Size distribution in CV [%]
200	1,000	552	889.11	1,233.6	3,314.4	■ 30	42.1

Assay Class: High Sensitivity DNA Assay   Created: 8/31/2018 11:38:57 AM
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad   Modified: 8/31/2018 12:33:16 PM

Electropherogram Summary Continued ...

sample 5a

Overall Results for sample 4 :   sample 5a

Number of peaks found:	1	Corr. Area 1:	16.8
Noise:	0.5		

Peak table for sample 4 :   sample 5a

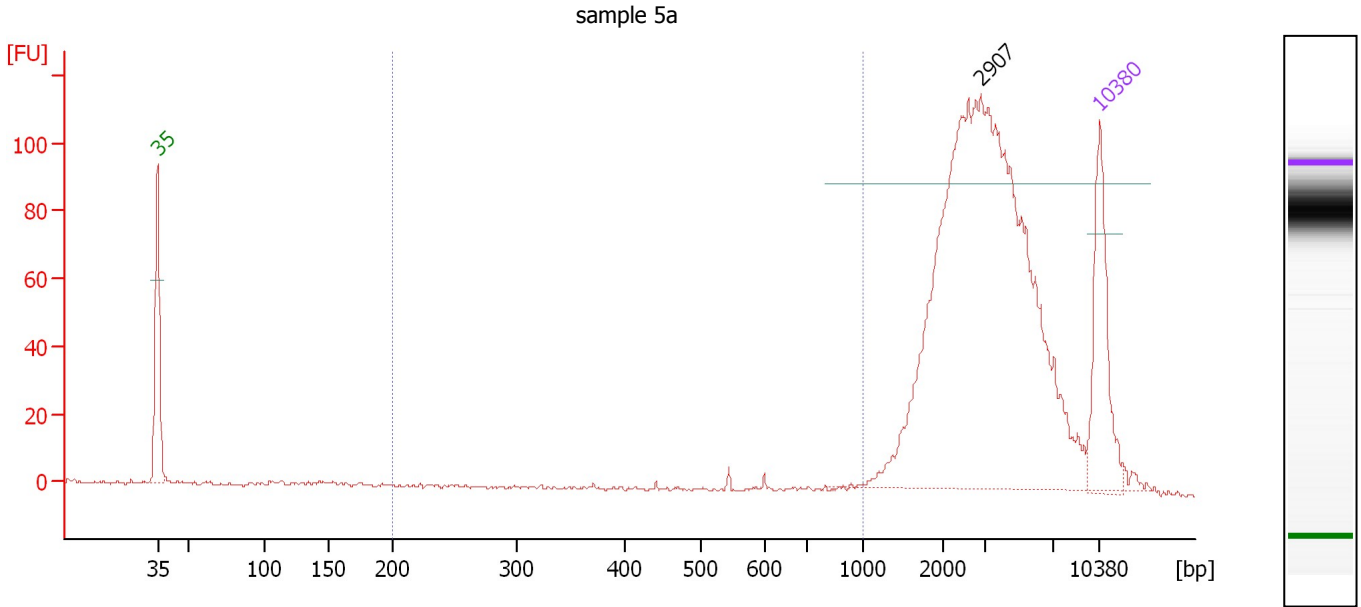| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		2,907	709.55	369.8		104.17
3	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 :   sample 5a

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	639	14.61	16.8	42.7	■ 2	32.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad

Created: 8/31/2018 11:38:57 AM
Modified: 8/31/2018 12:33:16 PM

Electropherogram Summary Continued ...

sample 5b

Overall Results for sample 5 :   sample 5b

Number of peaks found:	1	Corr. Area 1:	1,776.9
Noise:	0.4		

Peak table for sample 5 :   sample 5b

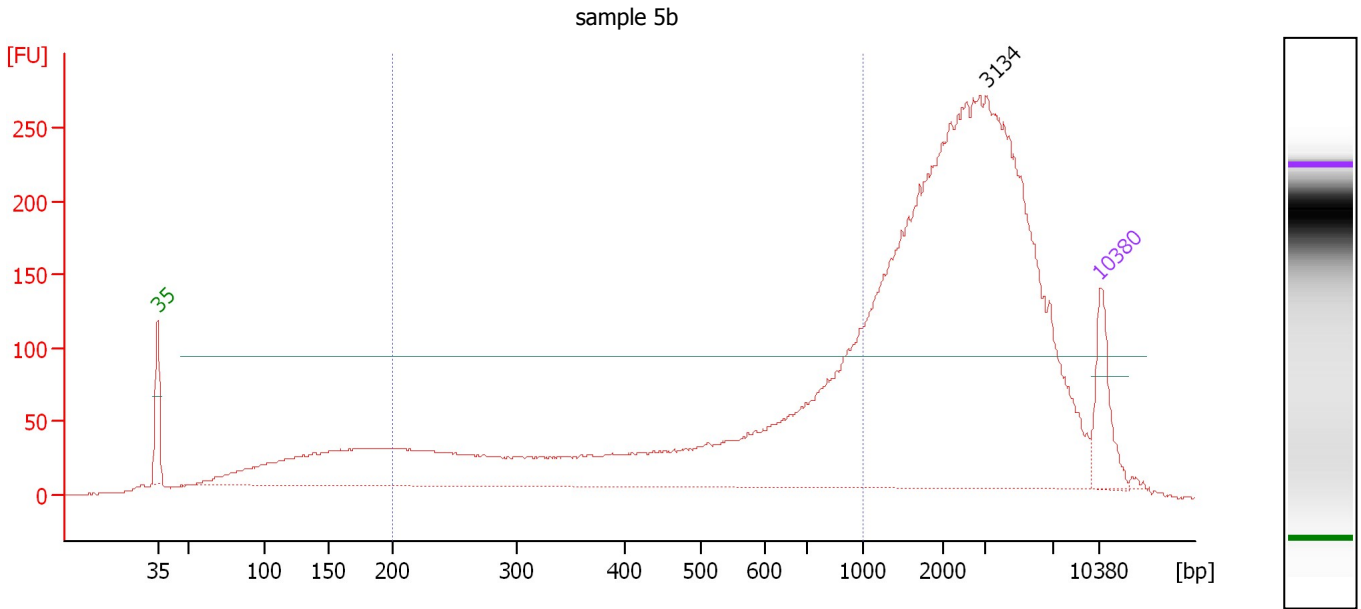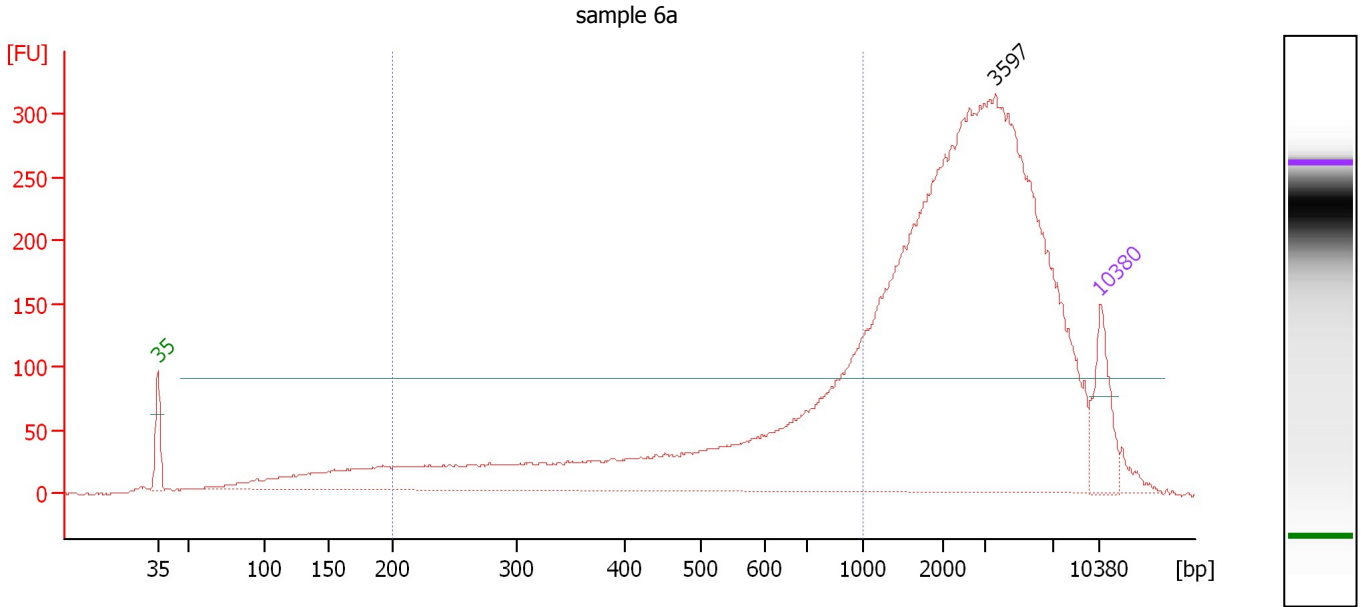| Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1 ◀	35	125.00	5,411.3	Lower Marker	43.00
2	3,134	2,324.24	1,123.7		104.62
3 ▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 5 :   sample 5b

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	541	1,258.90	1,776.9	4,827.8	■ 31	43.3

Electropherogram Summary Continued ...

sample 6a

Overall Results for sample 6 :   sample 6a

Number of peaks found:	1	Corr. Area 1:	1,683.0
Noise:	0.5		

Peak table for sample 6 :   sample 6a

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		3,597	2,191.37	923.0		105.20
3	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 :   sample 6a

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co lor	% of Total	Size distribution in CV [%]
200	1,000	561	969.12	1,683.0	3,520.3	🟦	29	41.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad

Created: 8/31/2018 11:38:57 AM
Modified: 8/31/2018 12:33:16 PM

Electropherogram Summary Continued ...

sample 6b

Overall Results for sample 7 :   sample 6b

Number of peaks found:	1	Corr. Area 1:	1,028.4
Noise:	0.7		

Peak table for sample 7 :   sample 6b

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		3,102	1,555.14	759.5		104.58
3	▶	10,380	75.00	10.9	Upper Marker	113.00

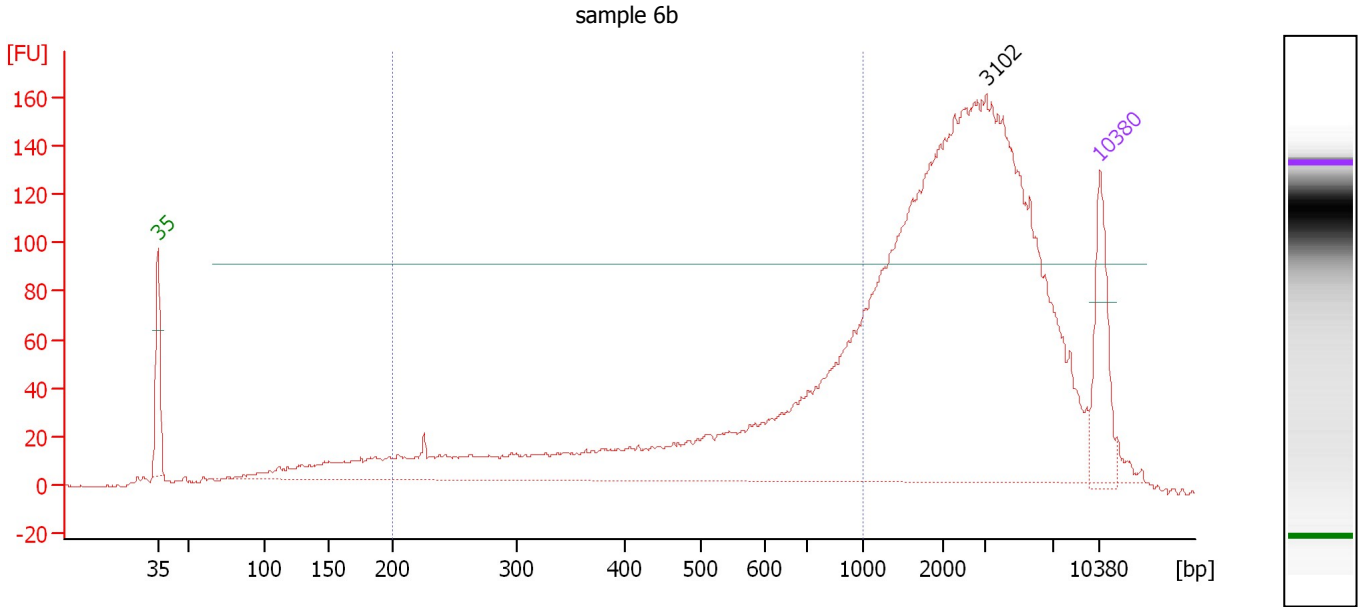### Region table for sample 7 :   sample 6b

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	557	821.76	1,028.4	3,000.2	■ 32	41.2

Assay Class: High Sensitivity DNA Assay   Created: 8/31/2018 11:38:57 AM
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad   Modified: 8/31/2018 12:33:16 PM

Electropherogram Summary Continued ...
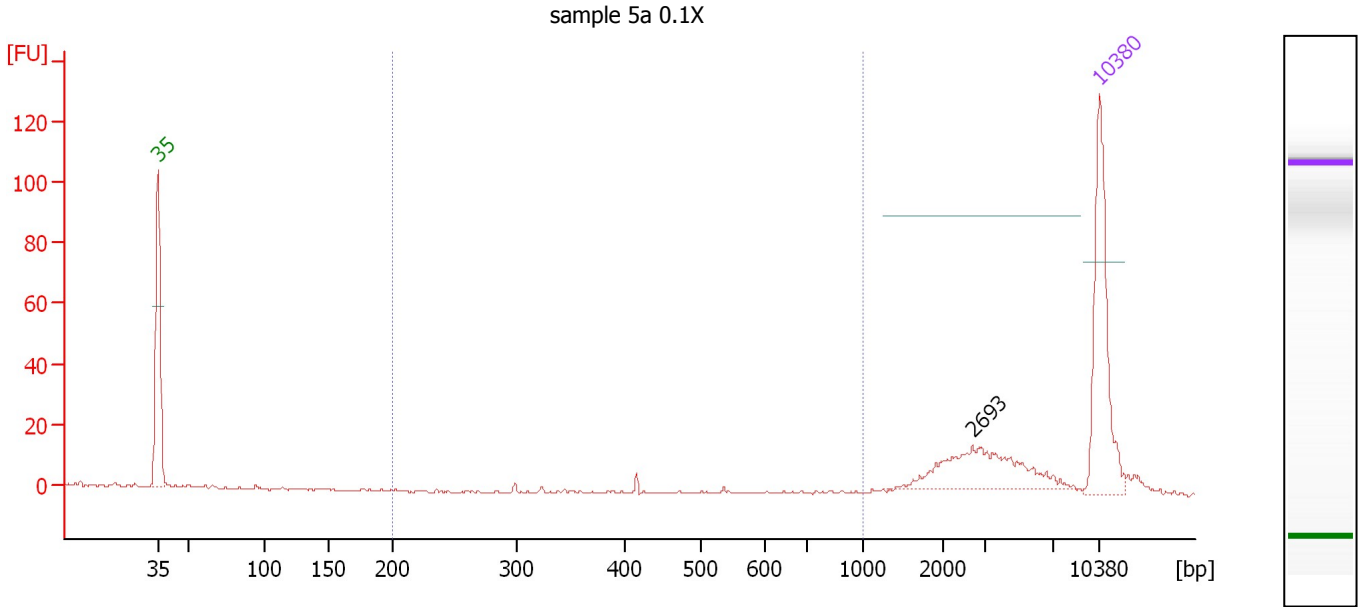
sample 5a 0.1X

Overall Results for sample 8 :   sample 5a 0.1X

Number of peaks found:	1	Corr. Area 1:	5.0
Noise:	0.4		

Peak table for sample 8 :   sample 5a 0.1X

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	2,693	57.77	32.5		103.52
3 ▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 8 :   sample 5a 0.1X

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	586	4.16	5.0	13.4	▩ 3	38.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad

Created: 8/31/2018 11:38:57 AM
Modified: 8/31/2018 12:33:16 PM

Electropherogram Summary Continued ...

sample 5b 0.1X

Overall Results for sample 9 : sample 5b 0.1X

Number of peaks found:	1	Corr. Area 1:	134.4
Noise:	0.4		

Peak table for sample 9 : sample 5b 0.1X

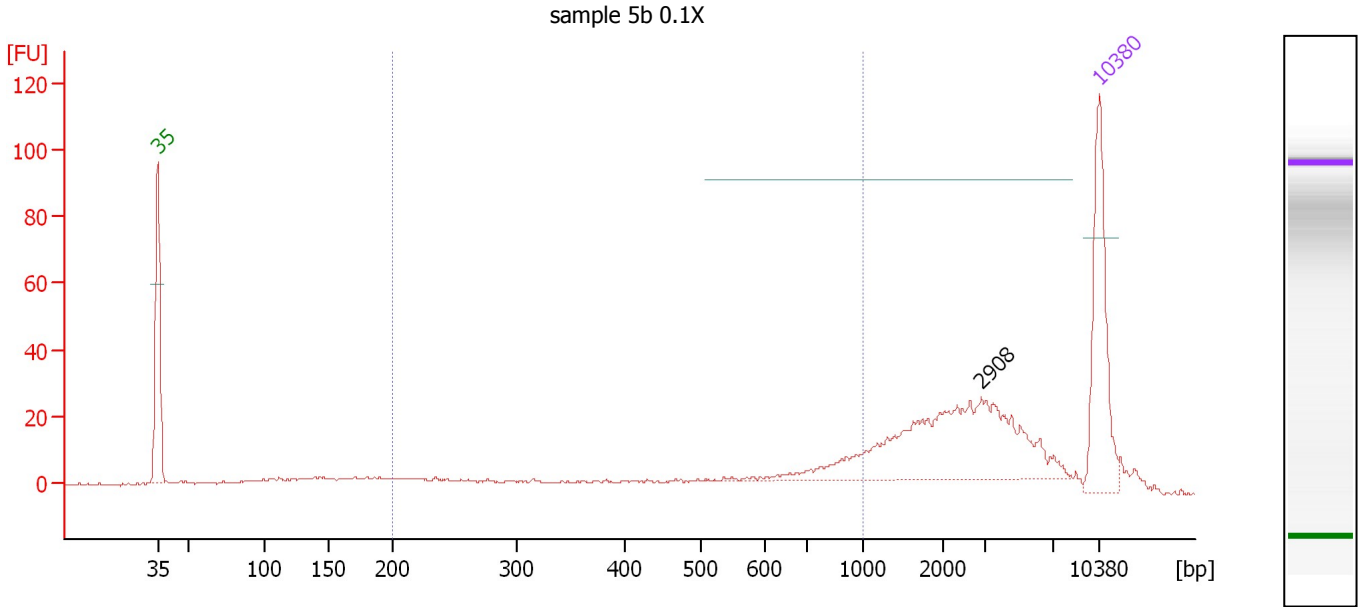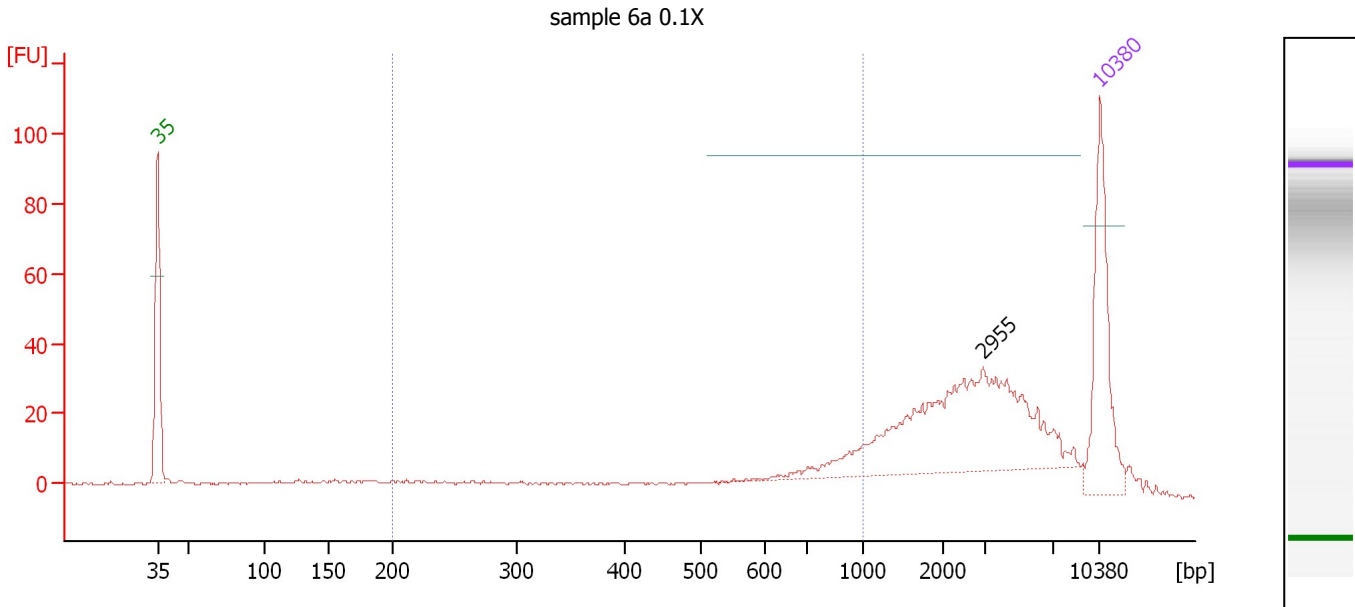| Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1 ◄	35	125.00	5,411.3	Lower Marker	43.00
2	2,908	166.97	87.0		104.17
3 ▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 9 : sample 5b 0.1X

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Color % of Total	Size distribution in CV [%]
200	1,000	578	123.24	134.4	442.4	▣ 28	41.0

Assay Class: High Sensitivity DNA Assay   Created: 8/31/2018 11:38:57 AM
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad   Modified: 8/31/2018 12:33:16 PM

Electropherogram Summary Continued ...

sample 6a 0.1X

Overall Results for sample 10 :   sample 6a 0.1X

Number of peaks found: 1   Corr. Area 1:   129.0
Noise: 0.3

Peak table for sample 10 :   sample 6a 0.1X

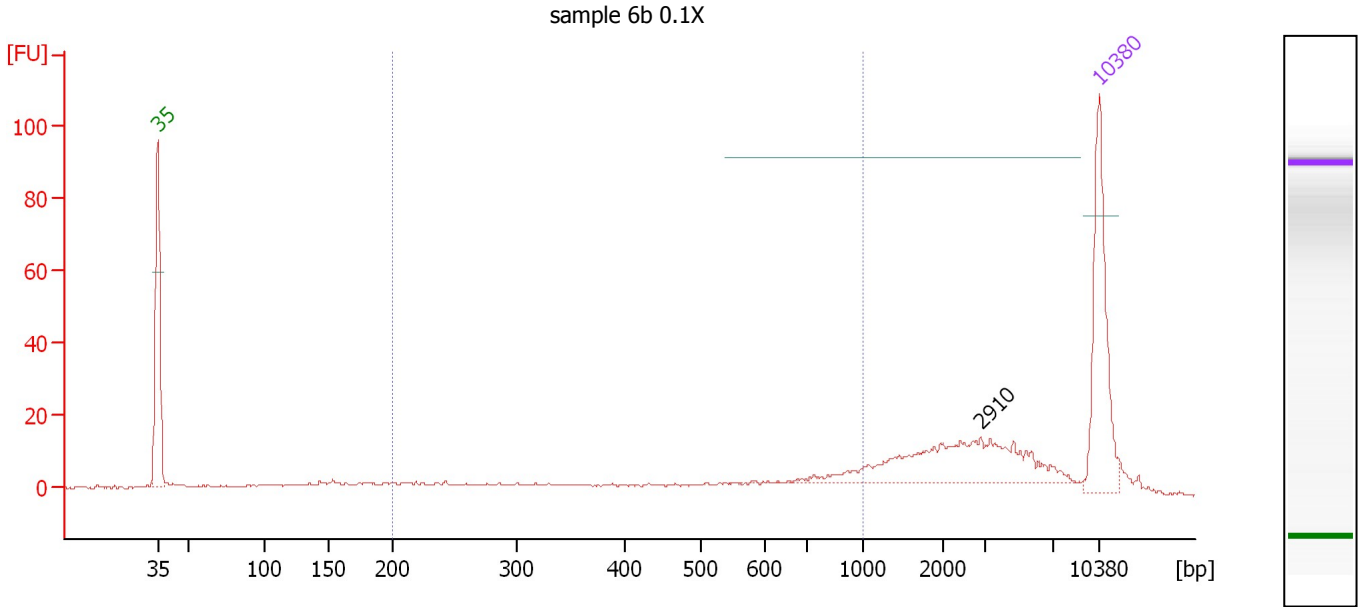| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		2,955	195.40	100.2		104.31
3	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 10 :   sample 6a 0.1X

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	602	116.14	129.0	398.8	■ 23	39.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad

Created: 8/31/2018 11:38:57 AM
Modified: 8/31/2018 12:33:16 PM

Electropherogram Summary Continued ...

sample 6b 0.1X

Overall Results for sample 11 :   sample 6b 0.1X

Number of peaks found:	1	Corr. Area 1:	95.7
Noise:	0.3		

Peak table for sample 11 :   sample 6b 0.1X

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		2,910	96.35	50.2		104.18
3	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 :   sample 6b 0.1X

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	548	98.71	95.7	372.6	▉ 31	42.8

Assay Class:	High Sensitivity DNA Assay
Data Path:	C:\... bioanalyzer\2100 expert\data\2018-08-31\2018-08-31_001.xad

Created: 8/31/2018 11:38:57 AM
Modified: 8/31/2018 12:33:16 PM

Gel Image