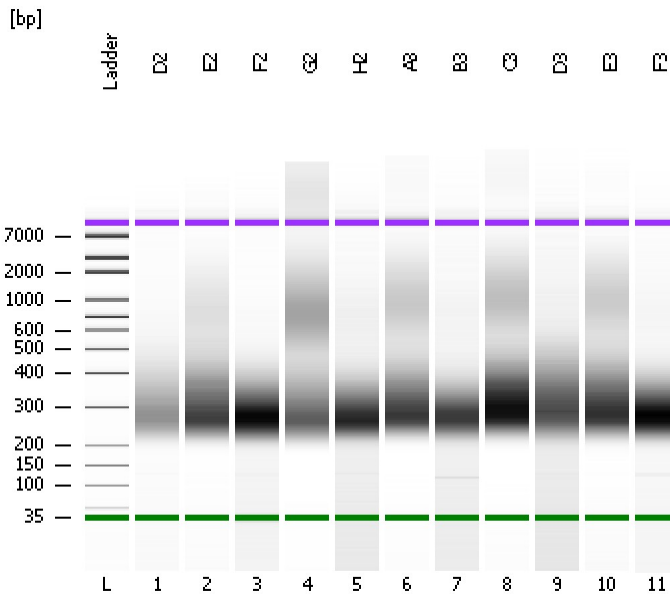


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
Modified: 9/18/2017 1:20:59 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

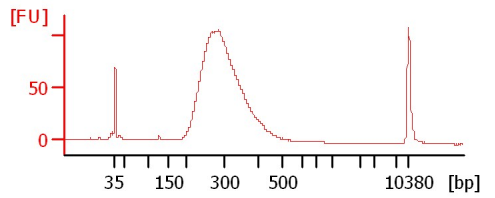
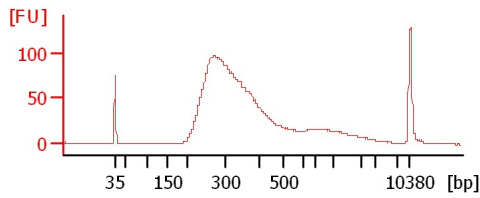
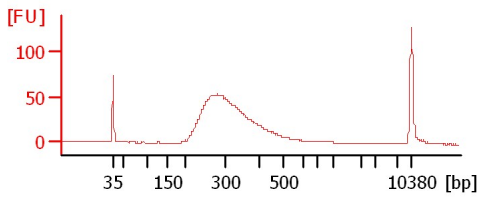
Chip Information:

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

D2

E2

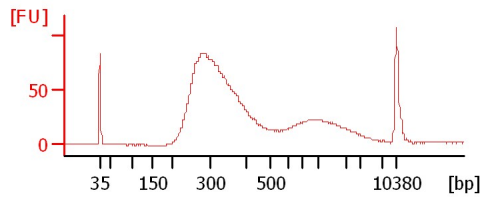
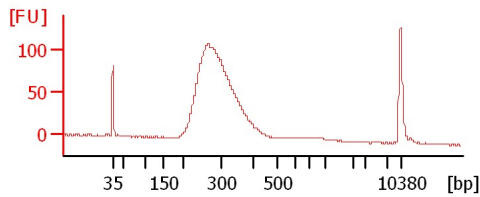
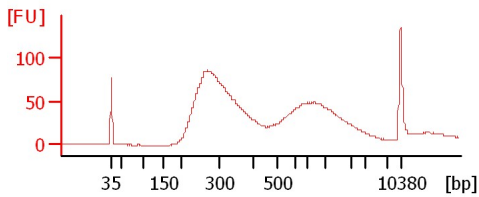
F2



G2

H2

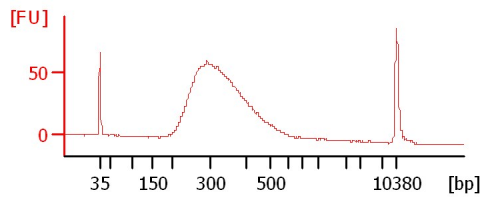
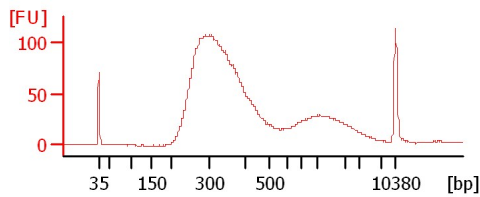
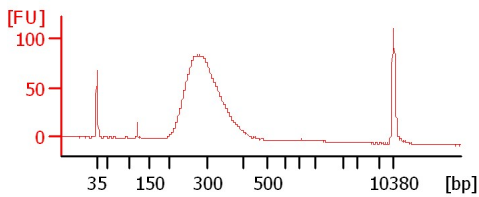
A3



B3

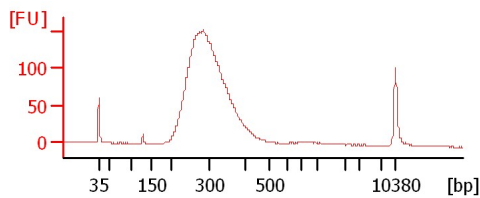
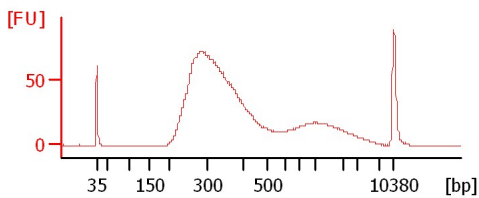
C3

D3



E3

F3



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
D2		<input type="checkbox"/>	✓			
E2		<input type="checkbox"/>	✓			
F2		<input type="checkbox"/>	✓			
G2		<input type="checkbox"/>	✓			
H2		<input type="checkbox"/>	✓			
A3		<input type="checkbox"/>	✓			
B3		<input type="checkbox"/>	✓			
C3		<input type="checkbox"/>	✓			
D3		<input type="checkbox"/>	✓			
E3		<input type="checkbox"/>	✓			
F3		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

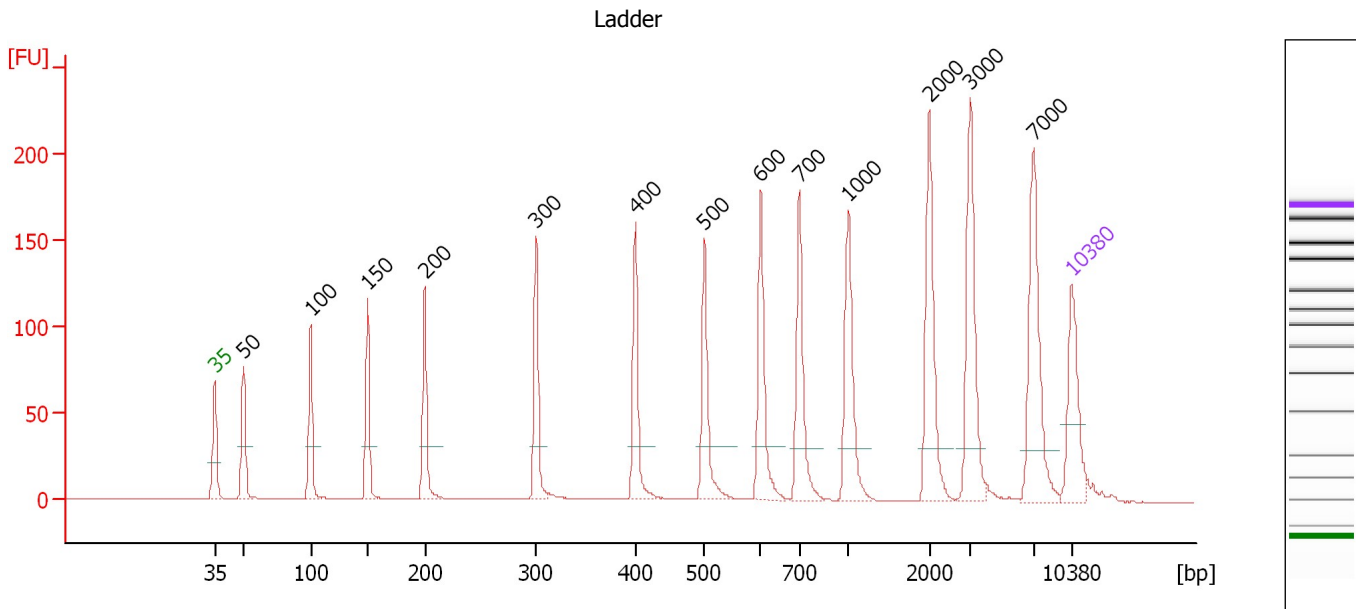
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

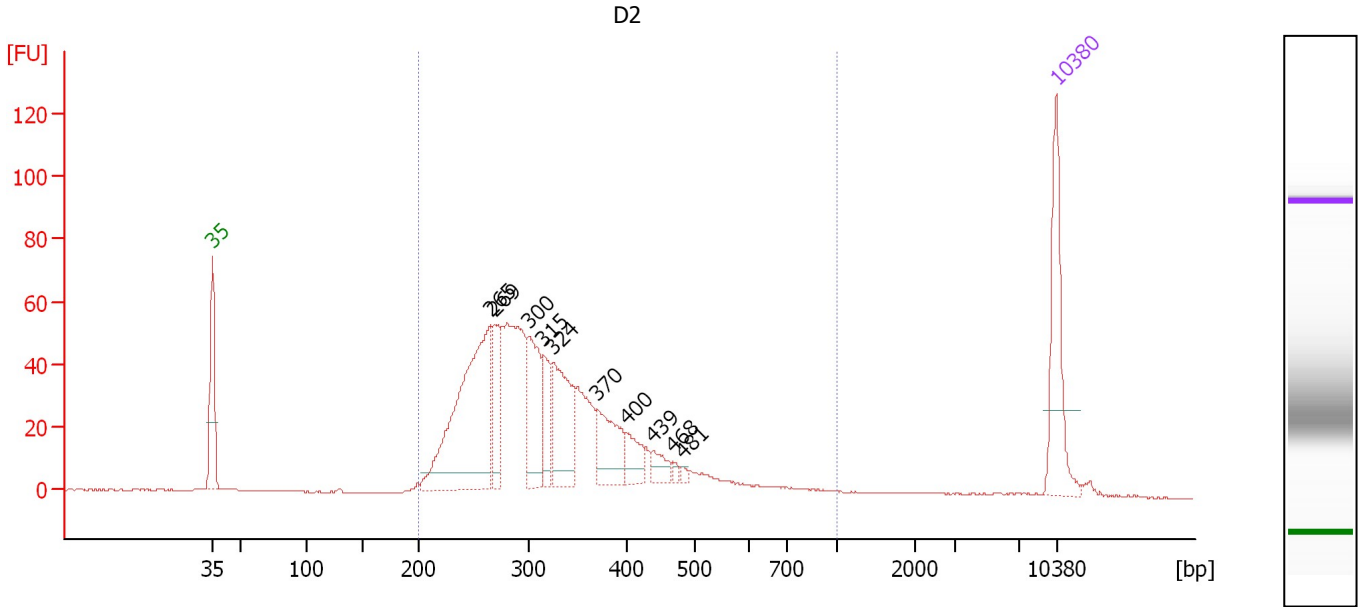
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.84
4	150	150.00	1,515.2	Ladder Peak	55.49
5	200	150.00	1,136.4	Ladder Peak	60.15
6	300	150.00	757.6	Ladder Peak	69.25
7	400	150.00	568.2	Ladder Peak	77.35
8	500	150.00	454.5	Ladder Peak	83.01
9	600	150.00	378.8	Ladder Peak	87.58
10	700	150.00	324.7	Ladder Peak	90.71
11	1,000	150.00	227.3	Ladder Peak	94.76
12	2,000	150.00	113.6	Ladder Peak	101.33
13	3,000	150.00	75.8	Ladder Peak	104.69
14	7,000	150.00	32.5	Ladder Peak	109.87
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : D2

Number of peaks found: 10 Corr. Area 1: 1,042.8
 Noise: 0.1

Peak table for sample 1 : D2

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	265	296.04	1,693.5		66.05
3	269	54.27	305.9		66.41
4	300	94.52	477.6		69.24
5	315	40.94	197.2		70.43
6	324	109.07	510.2		71.19
7	370	67.29	275.3		74.95
8	400	28.99	109.8		77.34
9	439	18.40	63.5		79.55
10	468	4.66	15.1		81.19
11	481	3.76	11.8		81.94
12	10,380	75.00	10.9	Upper Marker	113.00

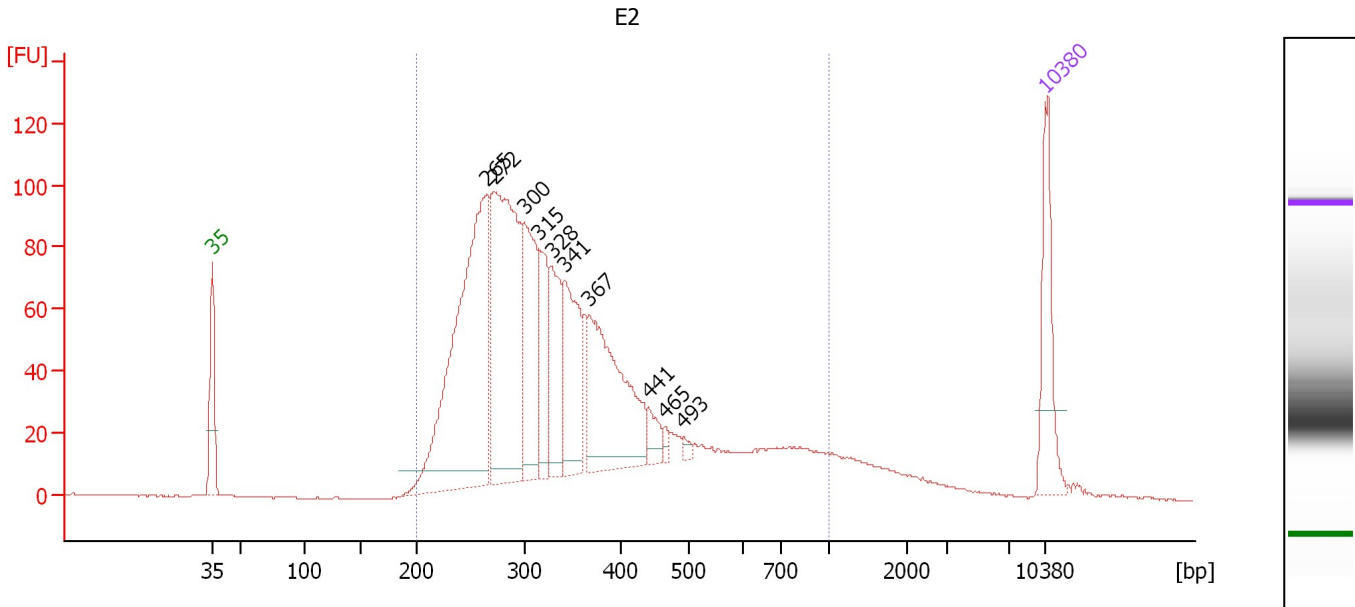
Region table for sample 1 : D2

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	331	1,042.8	5,736.7	1,152.47	96	29.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : E2

Number of peaks found: 10 Corr. Area 1: 2,075.5
 Noise: 0.2

Peak table for sample 2 : E2

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	265	532.24	3,037.6		66.11
3	272	420.68	2,344.4		66.69
4	300	172.64	872.1		69.24
5	315	100.79	485.0		70.45
6	328	102.04	471.2		71.53
7	341	143.35	637.2		72.56
8	367	234.12	965.5		74.71
9	441	24.11	82.8		79.68
10	465	7.62	24.8		81.02
11	493	6.61	20.3		82.59
12	10,380	75.00	10.9	Upper Marker	113.00

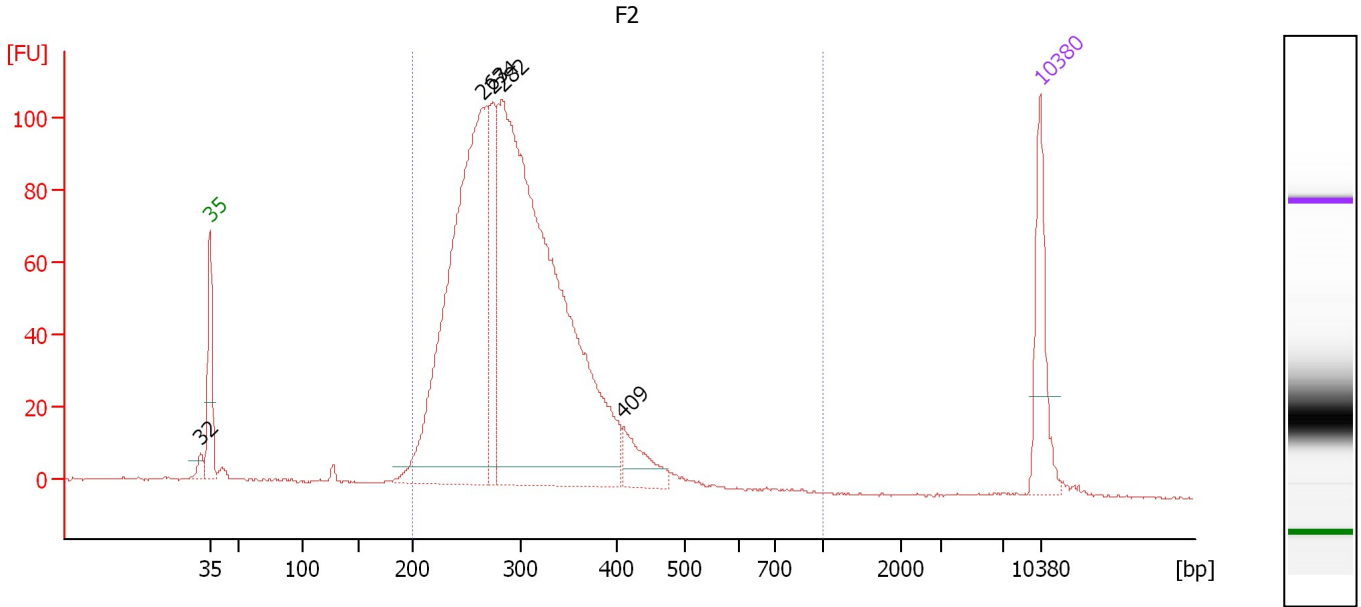
Region table for sample 2 : E2

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	364	2,075.5	10,488.3	2,193.11	94	39.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : F2

Number of peaks found: 5 Corr. Area 1: 1,694.0
 Noise: 0.3

Peak table for sample 3 : F2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.24
2	35	125.00	5,411.3	Lower Marker	43.00
3	263	789.75	4,541.2		65.93
4	274	130.37	721.2		66.87
5	282	1,180.95	6,339.0		67.64
6	409	55.04	204.0		77.84
7	10,380	75.00	10.9	Upper Marker	113.00

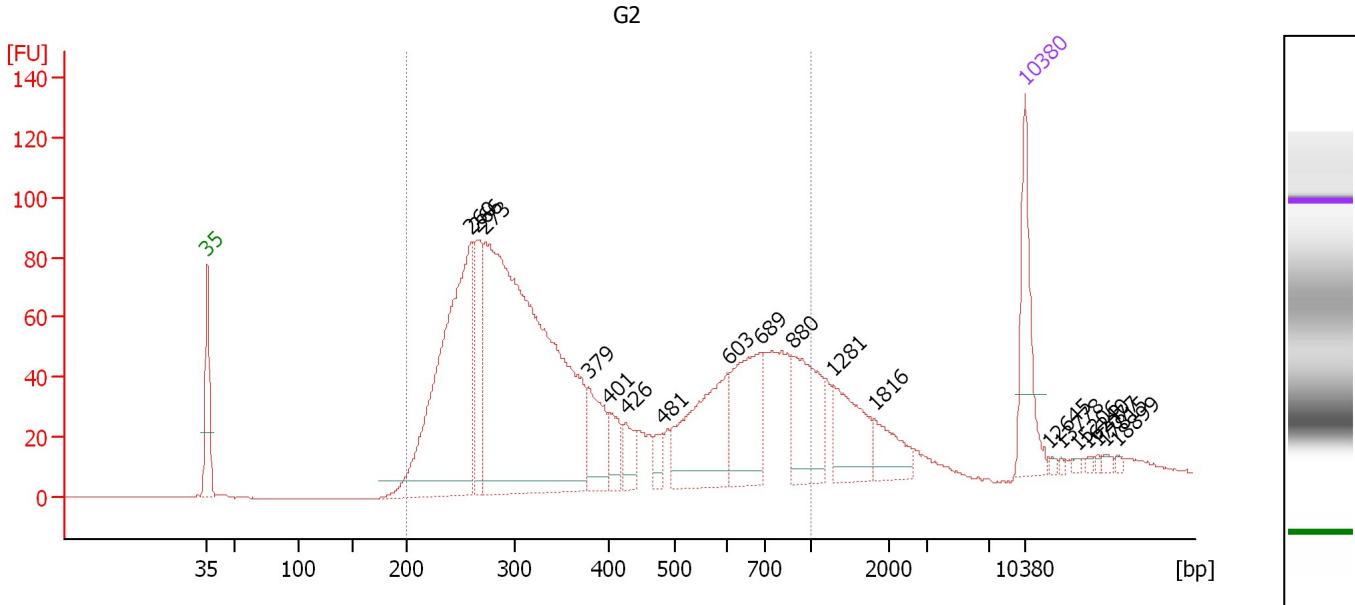
Region table for sample 3 : F2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	299	1,694.0	11,166.0	2,117.86	96	19.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : G2

Number of peaks found: 19 Corr. Area 1: 1,929.8
 Noise: 0.2

Peak table for sample 4 : G2

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	260	490.32	2,858.3		65.60
3	266	102.89	586.2		66.15
4	273	923.95	5,119.2		66.84
5	379	77.07	308.1		75.65
6	401	34.30	129.5		77.43
7	426	30.00	106.6		78.84
8	481	17.99	56.6		81.95
9	603	147.93	372.0		87.66
10	689	123.17	271.0		90.35
11	880	106.00	182.6		93.14
12	1,281	76.08	90.0		96.61
13	1,816	38.10	31.8		100.12
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,645	0.00	0.0		115.10
16	13,778	0.00	0.0		116.15
17	15,206	0.00	0.0		117.47
18	16,240	0.00	0.0		118.43
19	17,077	0.00	0.0		119.21
20	17,815	0.00	0.0		119.89
21	18,899	0.00	0.0		120.90

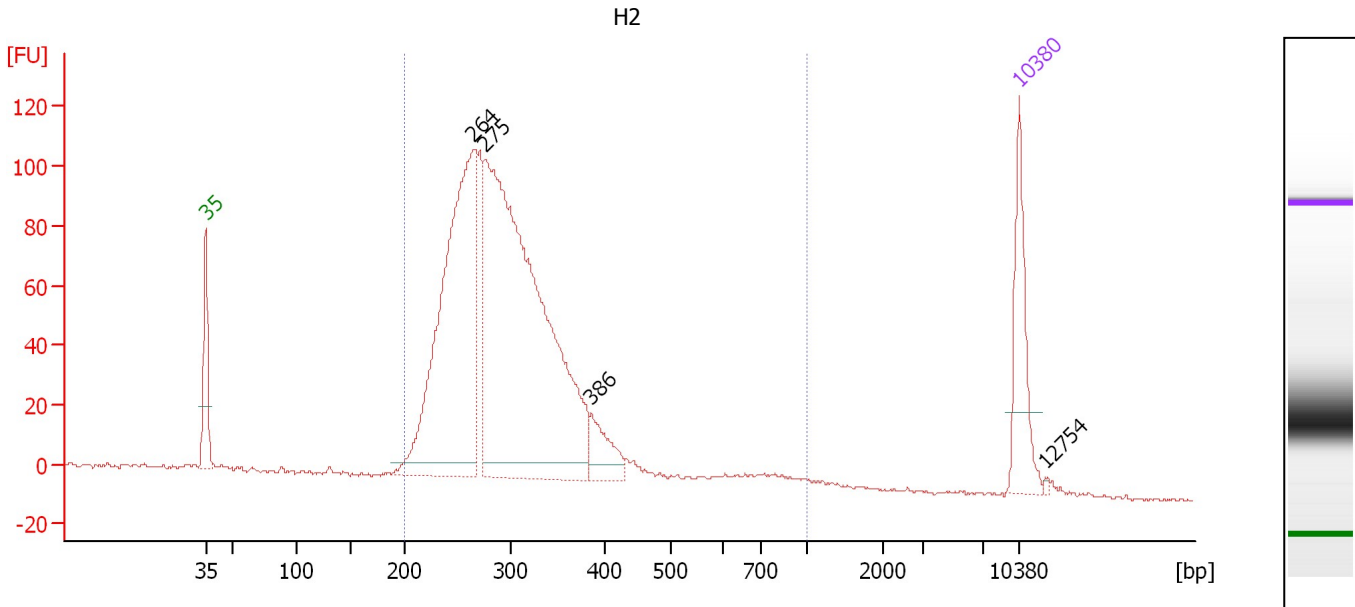
Region table for sample 4 : G2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	427	1,929.8	9,190.6	2,025.60	88	47.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : H2

Number of peaks found: 4 Corr. Area 1: 1,666.8
 Noise: 0.5

Peak table for sample 5 : H2

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	264	578.48	3,319.1		65.98
3	275	904.80	4,991.2		66.94
4	386	51.61	202.6		76.21
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,754	0.00	0.0		115.20

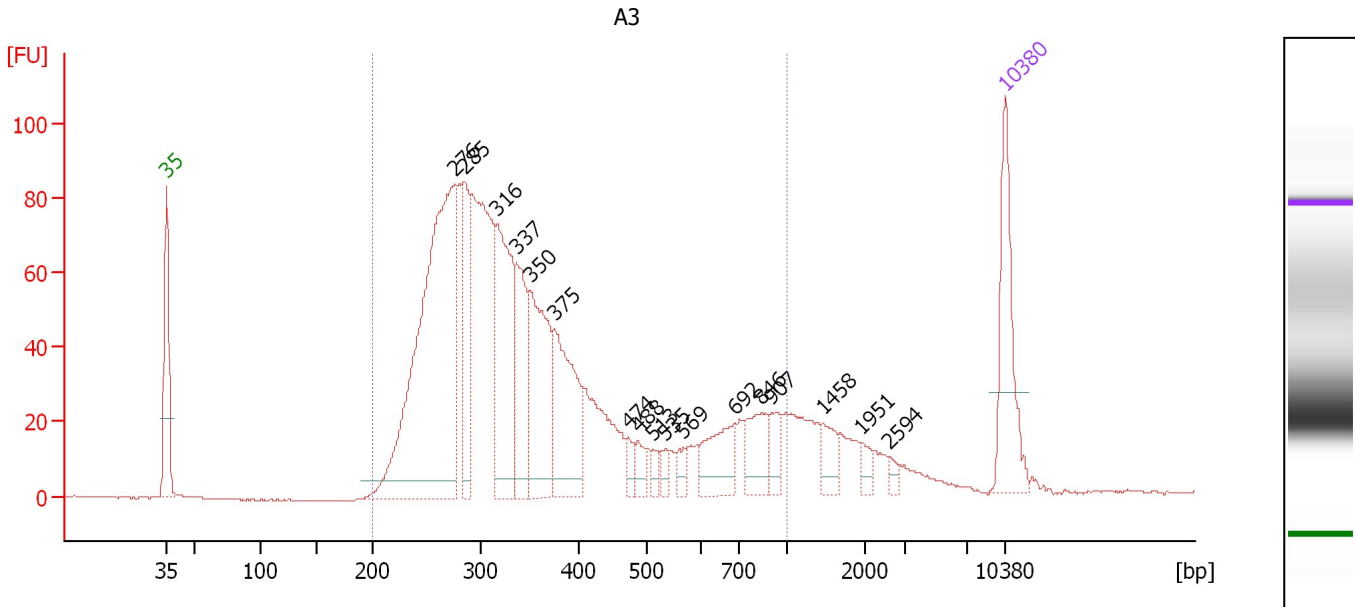
Region table for sample 5 : H2

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	308	1,666.8	8,507.6	1,622.68	97	28.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : A3

Number of peaks found: 17 Corr. Area 1: 1,678.5
 Noise: 0.2

Peak table for sample 6 : A3

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	276	505.33	2,773.3		67.07
3	285	98.47	524.0		67.86
4	316	183.50	879.8		70.55
5	337	95.16	428.3		72.21
6	350	141.73	613.0		73.32
7	375	127.33	513.8		75.36
8	474	12.83	41.0		81.52
9	488	14.75	45.8		82.35
10	513	9.50	28.1		83.60
11	535	10.42	29.5		84.62
12	569	11.90	31.7		86.15
13	692	52.66	115.3		90.45
14	846	41.71	74.7		92.68
15	907	20.77	34.7		93.51
16	1,458	20.66	21.5		97.77
17	1,951	9.19	7.1		101.01
18	2,594	5.30	3.1		103.32
19	10,380	75.00	10.9	Upper Marker	113.00

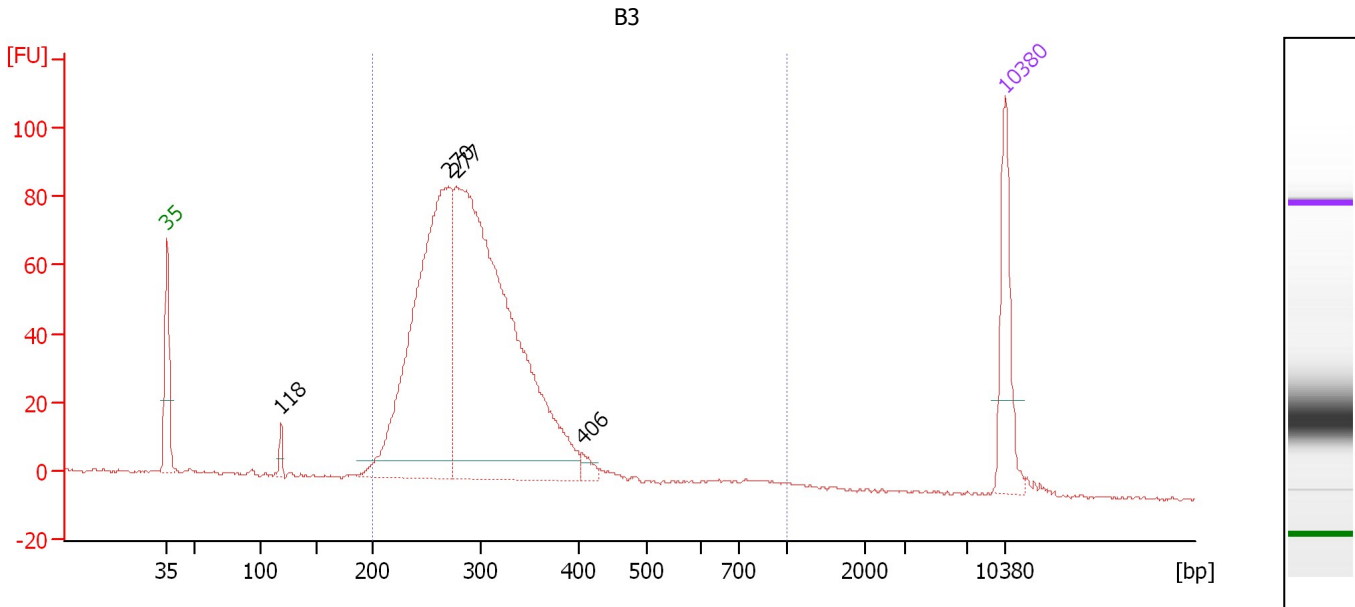
Region table for sample 6 : A3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	382	1,678.5	8,356.0	1,792.32	90	43.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : B3

Number of peaks found: 4 Corr. Area 1: 1,255.2
 Noise: 0.5

Peak table for sample 7 : B3

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	118	12.88	164.9		52.55
3	270	607.01	3,404.2		66.54
4	277	917.13	5,019.2		67.14
5	406	11.93	44.5		77.67
6	10,380	75.00	10.9	Upper Marker	113.00

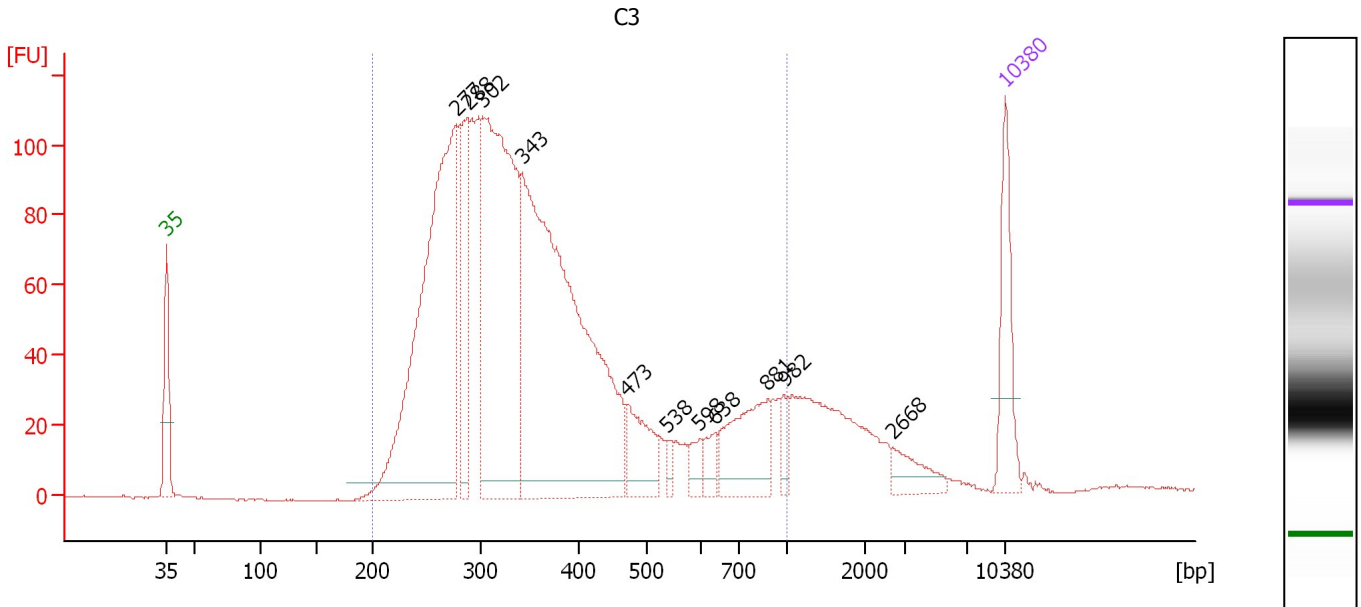
Region table for sample 7 : B3

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	304	1,255.2	8,166.6	1,553.99	96	26.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : C3

Number of peaks found: 11 Corr. Area 1: 2,289.9
 Noise: 0.2

Peak table for sample 8 : C3

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	277	692.55	3,784.5		67.18
3	288	152.02	800.8		68.12
4	302	597.60	3,000.0		69.40
5	343	840.45	3,717.2		72.70
6	473	79.08	253.4		81.46
7	538	12.39	34.9		84.76
8	598	21.20	53.7		87.50
9	638	23.48	55.8		88.77
10	881	106.82	183.7		93.15
11	982	17.01	26.2		94.52
12	2,668	32.01	18.2		103.57
13	10,380	75.00	10.9	Upper Marker	113.00

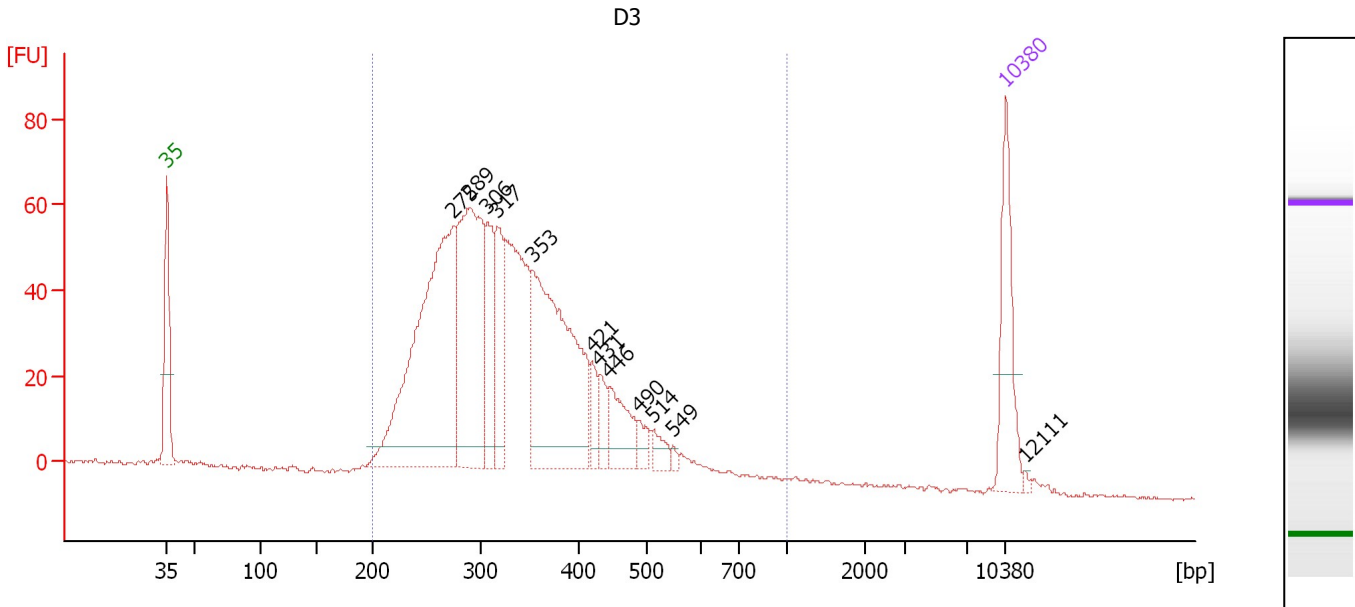
Region table for sample 8 : C3

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	380	2,289.8	12,613.3	2,737.89	90	40.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : D3

Number of peaks found: 12 Corr. Area 1: 1,272.1
 Noise: 0.4

Peak table for sample 9 : D3

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	275	465.00	2,566.5		66.93
3	289	300.59	1,575.7		68.25
4	306	94.31	466.5		69.76
5	317	94.83	453.5		70.61
6	353	327.76	1,406.9		73.54
7	421	25.92	93.3		78.54
8	431	25.68	90.3		79.11
9	446	57.61	195.6		79.96
10	490	15.33	47.4		82.41
11	514	17.12	50.5		83.64
12	549	4.18	11.5		85.25
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,111	0.00	0.0		114.60

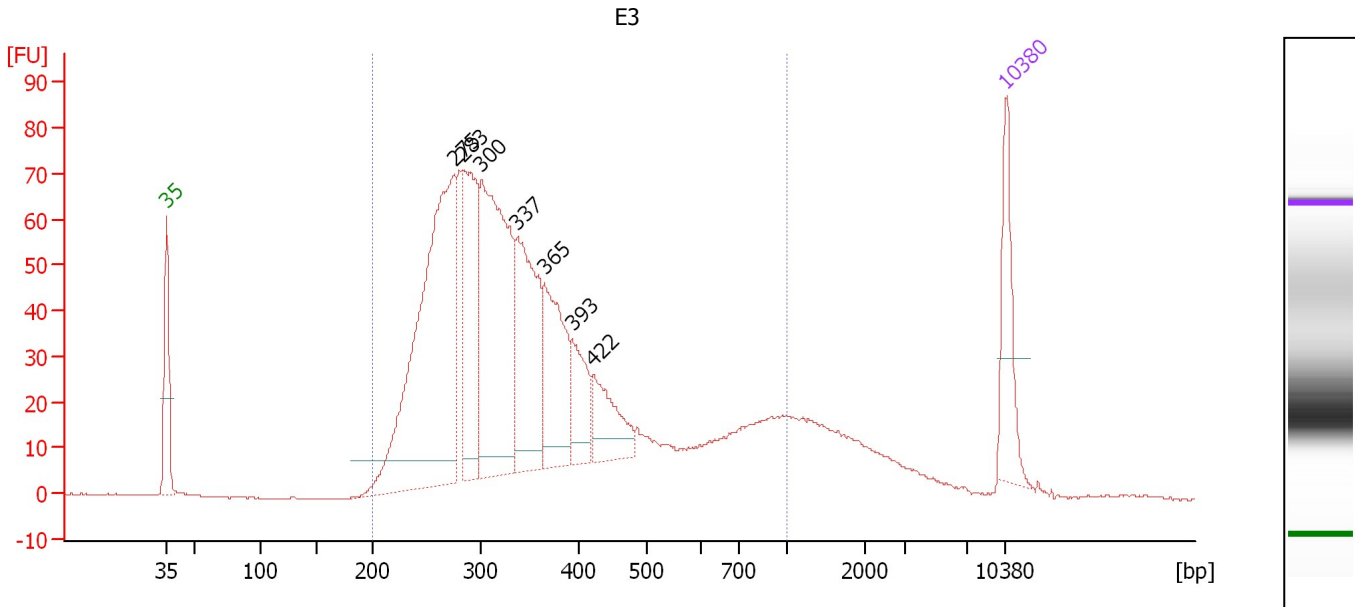
Region table for sample 9 : D3

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	342	1,272.1	8,621.2	1,795.10	97	27.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : E3

Number of peaks found: 7 Corr. Area 1: 1,500.2
 Noise: 0.1

Peak table for sample 10 : E3

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	275	603.02	3,319.5		67.00
3	283	223.05	1,193.9		67.71
4	300	403.23	2,034.5		69.27
5	337	230.18	1,034.3		72.26
6	365	158.21	656.2		74.54
7	393	75.47	290.7		76.81
8	422	77.16	276.8		78.62
9	10,380	75.00	10.9	Upper Marker	113.00

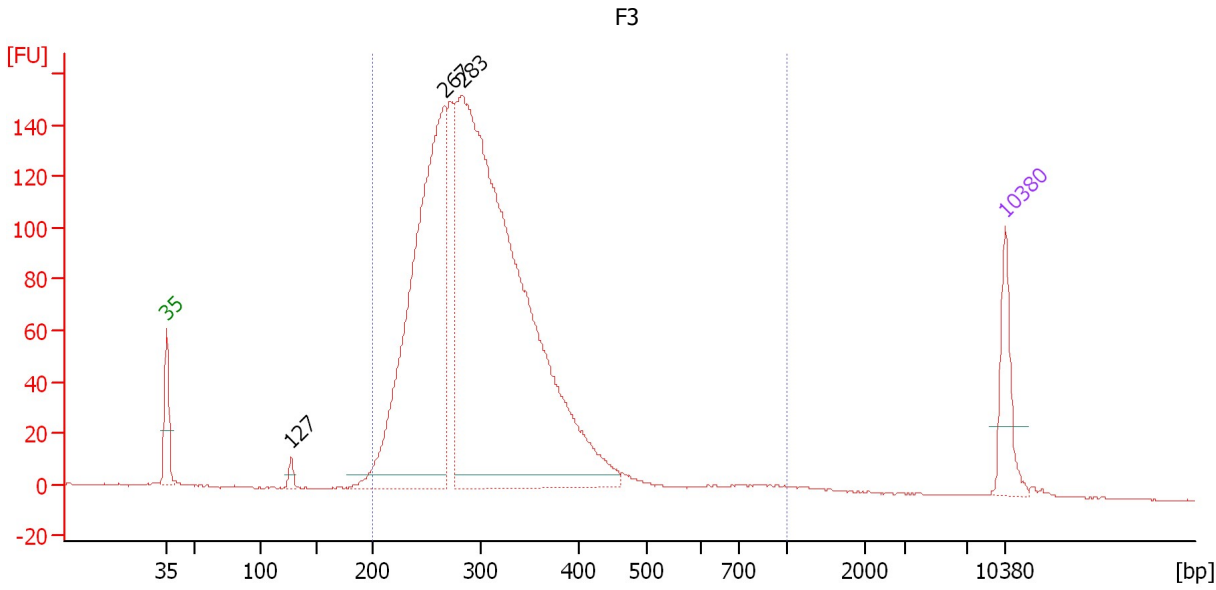
Region table for sample 10 : E3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	379	1,500.2	10,842.4	2,327.06	90	41.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
 Modified: 9/18/2017 1:20:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : F3

Number of peaks found: 3 Corr. Area 1: 2,348.7
 Noise: 0.4

Peak table for sample 11 : F3

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	127	16.34	194.2		53.39
3	267	1,019.43	5,794.7		66.21
4	283	1,895.38	10,157.7		67.68
5	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : F3

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	308	2,348.7	16,098.1	3,096.44	97	26.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18_003.xad

Created: 9/18/2017 12:40:31 PM
Modified: 9/18/2017 1:20:59 PM

Gel Image

