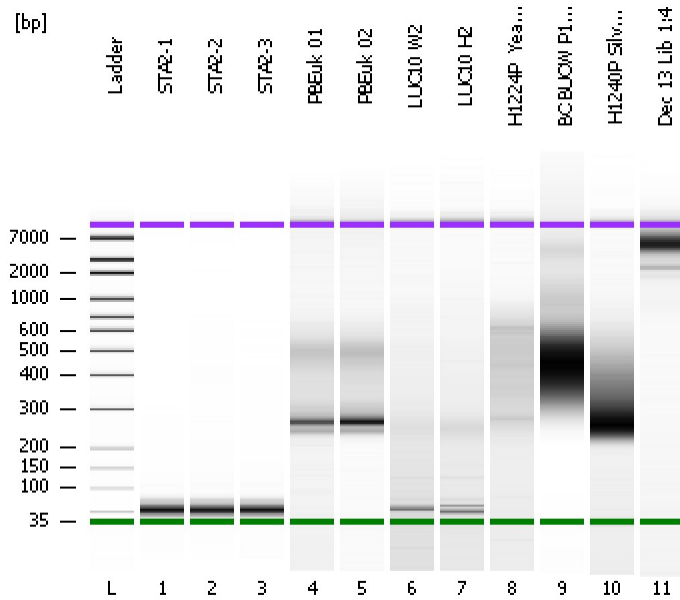


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
Modified: 12/18/2017 3:28:29 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

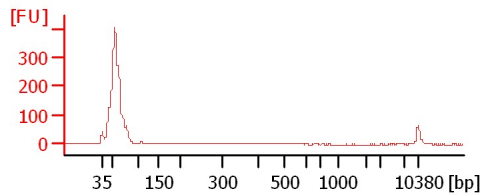
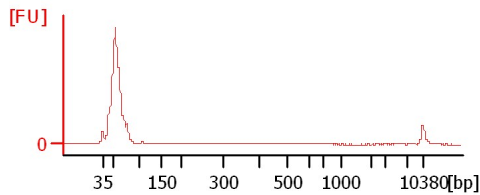
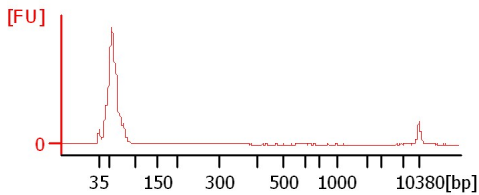
Chip Information:

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

STA2-1

STA2-2

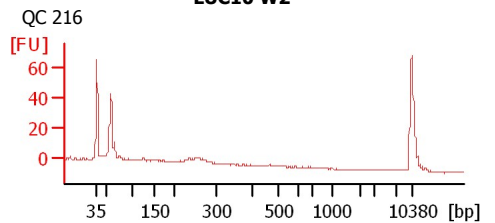
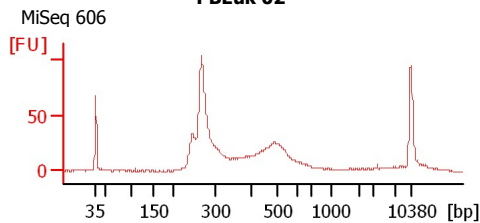
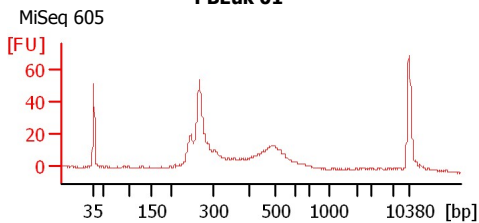
STA2-3



PBEuk 01

PBEuk 02

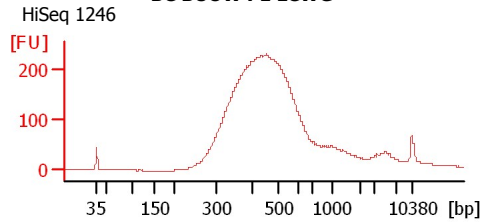
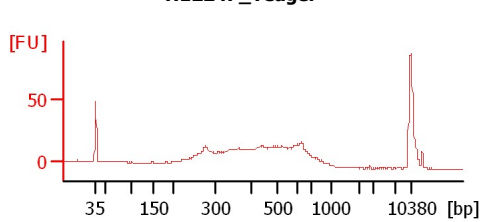
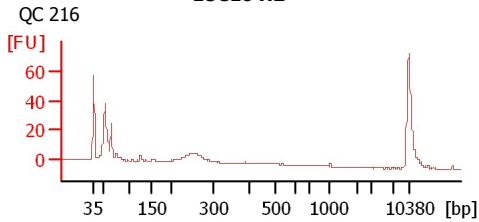
LUC10 W2



LUC10 H2

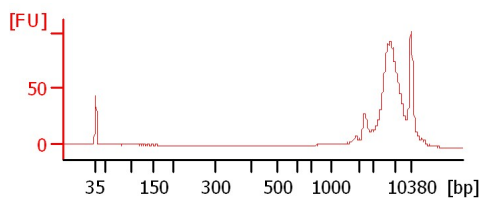
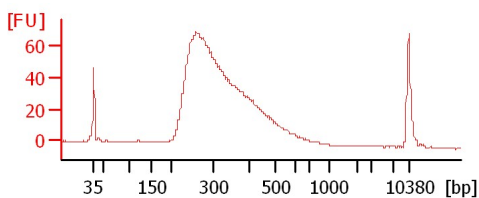
H1224P_Yeager

BC BUOW P1 LCWG



H1240P Silva A

Dec 13 Lib 1:4



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
STA2-1		<input type="checkbox"/>	✓			
STA2-2		<input type="checkbox"/>	✓			
STA2-3		<input type="checkbox"/>	✓			
PBEuk 01	MiSeq 605	<input type="checkbox"/>	✓			
PBEuk 02	MiSeq 606	<input type="checkbox"/>	✓			
LUC10 W2	QC 216	<input type="checkbox"/>	✓			
LUC10 H2	QC 216	<input type="checkbox"/>	✓			
H1224P_Yeager		<input type="checkbox"/>	✓			
BC BUOW P1 LCWG	HiSeq 1246	<input type="checkbox"/>	✓			
H1240P Silva A		<input type="checkbox"/>	✓			
Dec 13 Lib 1:4		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

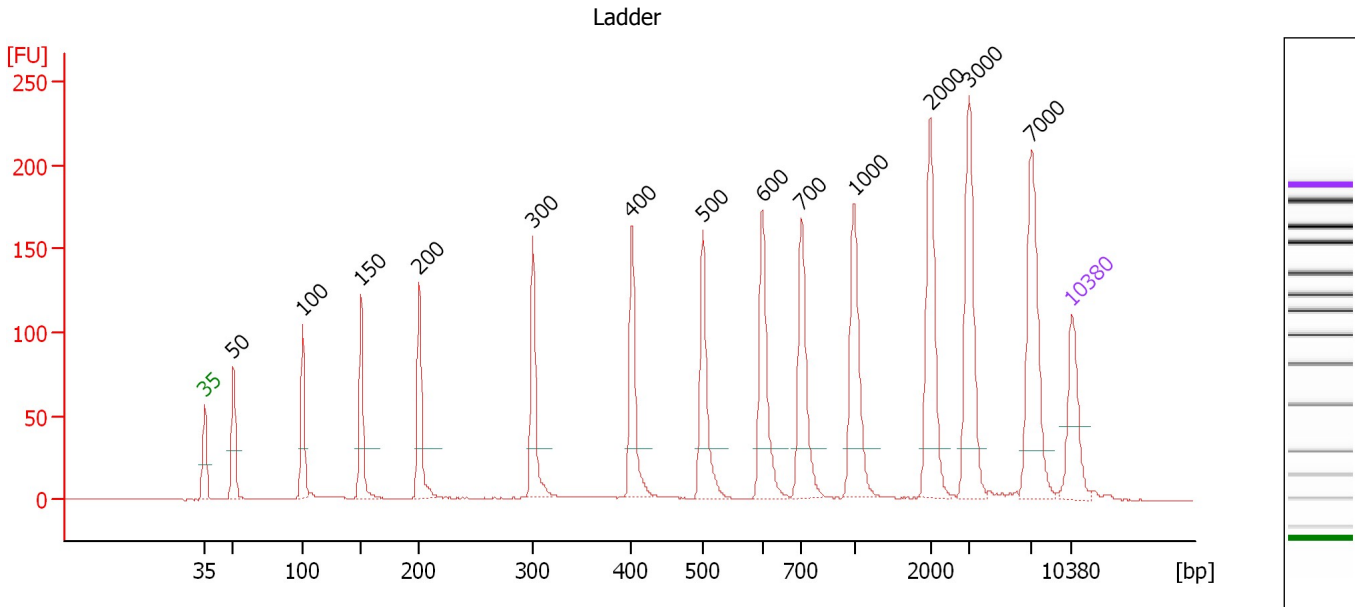
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

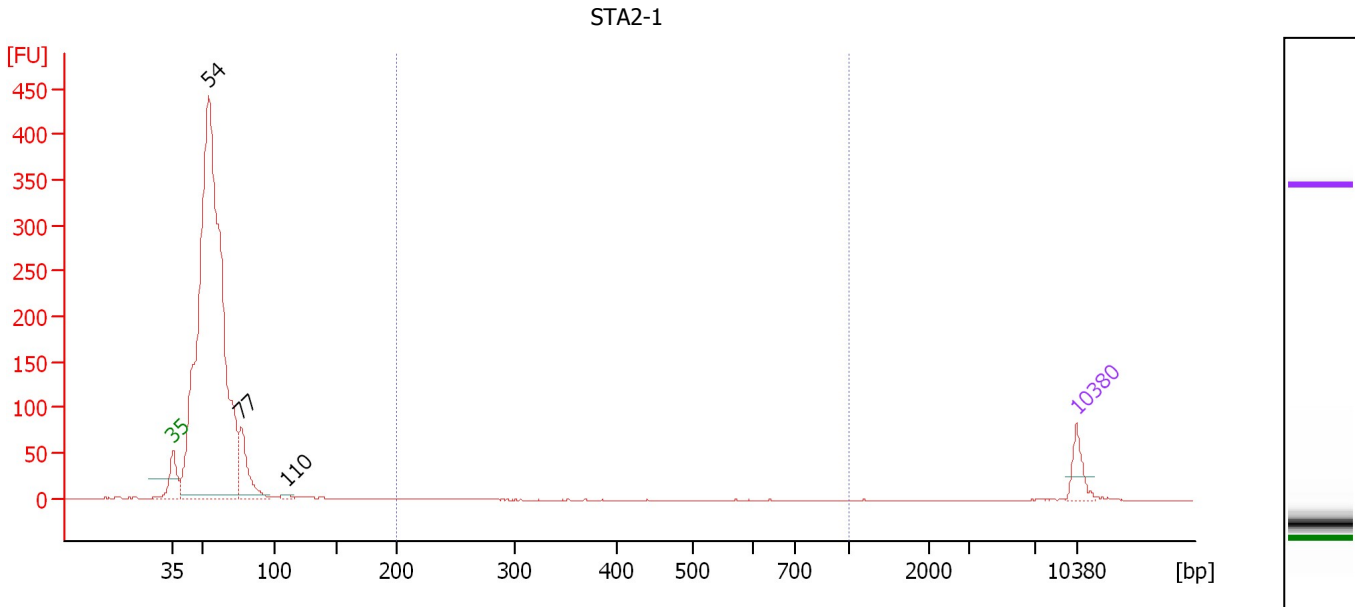
Peak table for Ladder

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	45.32
3	100	150.00	2,272.7	Ladder Peak	50.92
4	150	150.00	1,515.2	Ladder Peak	55.65
5	200	150.00	1,136.4	Ladder Peak	60.34
6	300	150.00	757.6	Ladder Peak	69.50
7	400	150.00	568.2	Ladder Peak	77.46
8	500	150.00	454.5	Ladder Peak	83.23
9	600	150.00	378.8	Ladder Peak	88.00
10	700	150.00	324.7	Ladder Peak	91.14
11	1,000	150.00	227.3	Ladder Peak	95.40
12	2,000	150.00	113.6	Ladder Peak	101.56
13	3,000	150.00	75.8	Ladder Peak	104.70
14	7,000	150.00	32.5	Ladder Peak	109.73
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : STA2-1

Number of peaks found: 3 Corr. Area 1: 4.7
 Noise: 0.2

Peak table for sample 1 : STA2-1

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	54	5,344.22	149,024.3		45.81
3	77	336.77	6,639.1		48.33
4	110	21.74	299.0		51.88
5	10,380	75.00	10.9	Upper Marker	113.00

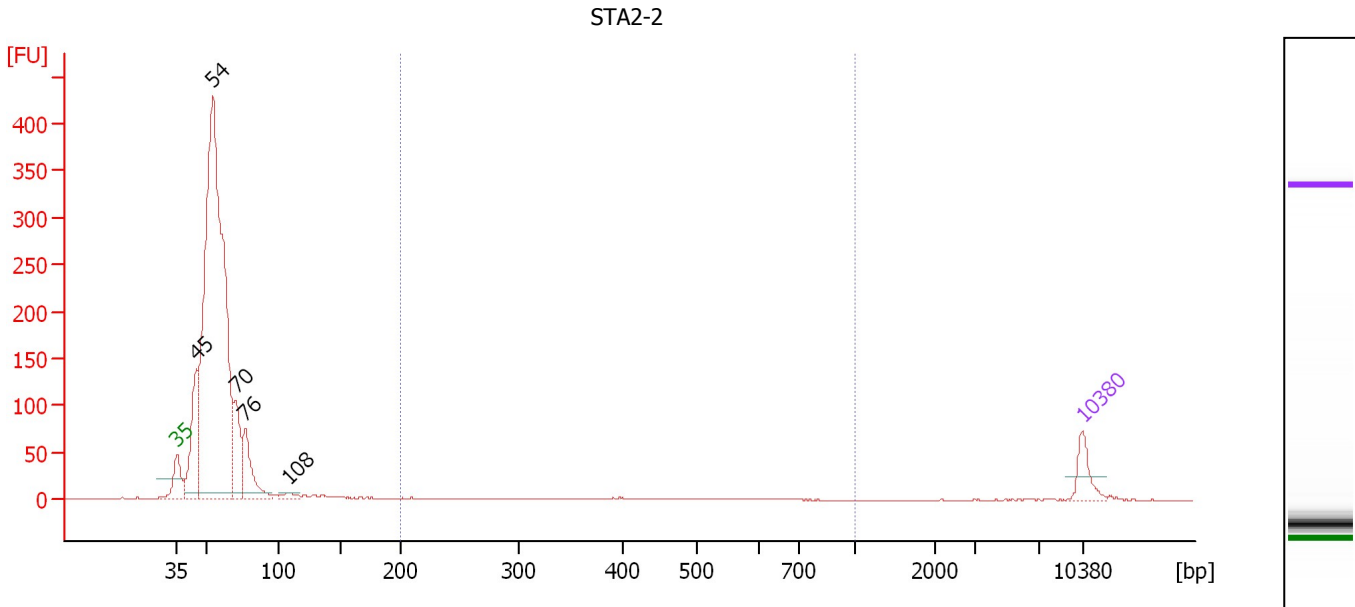
Region table for sample 1 : STA2-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	367	4.7	8.09	45.8	0	53.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : STA2-2

Number of peaks found: 5 Corr. Area 1: 69.9
 Noise: 0.3

Peak table for sample 2 : STA2-2

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	45	503.27	17,002.6		44.53
3	54	3,973.64	111,654.1		45.76
4	70	311.77	6,770.6		47.53
5	76	302.64	6,001.6		48.28
6	108	30.16	423.8		51.66
7	10,380	75.00	10.9	Upper Marker	113.00

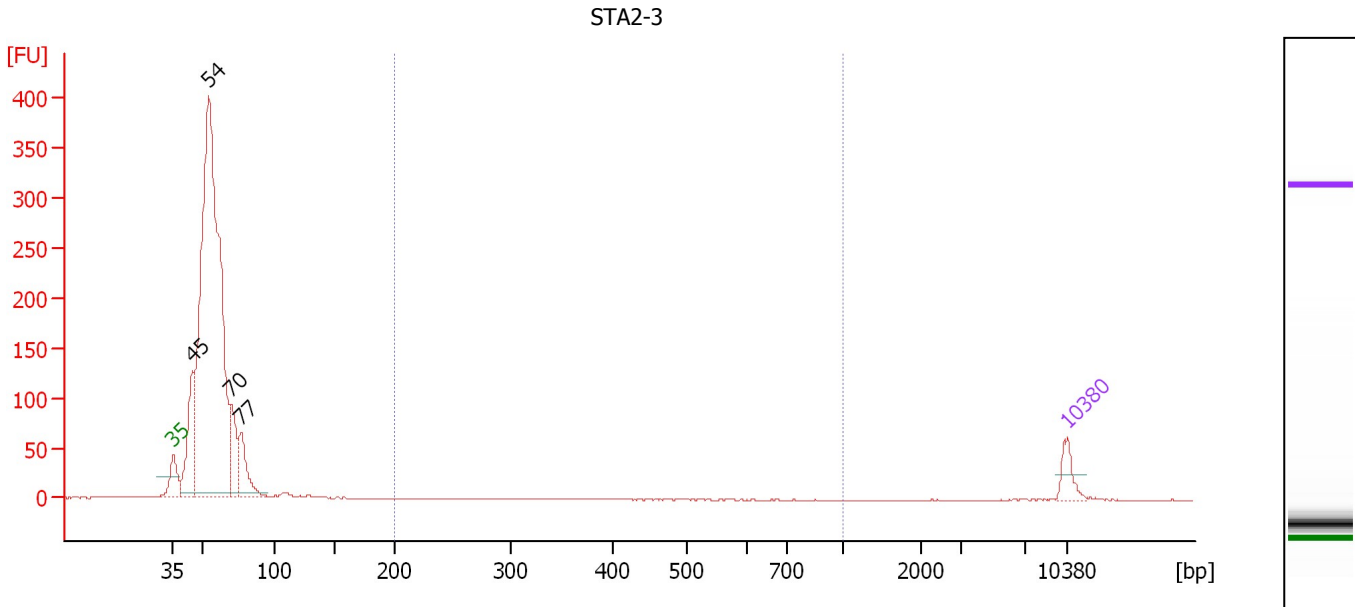
Region table for sample 2 : STA2-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	404	69.9	107.81	485.2	3	36.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : STA2-3

Number of peaks found: 4 Corr. Area 1: 0.0
 Noise: 0.4

Peak table for sample 3 : STA2-3

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	45	578.08	19,473.9		44.55
3	54	4,635.77	129,480.8		45.80
4	70	348.57	7,552.6		47.55
5	77	329.76	6,518.5		48.30
6	10,380	75.00	10.9	Upper Marker	113.00

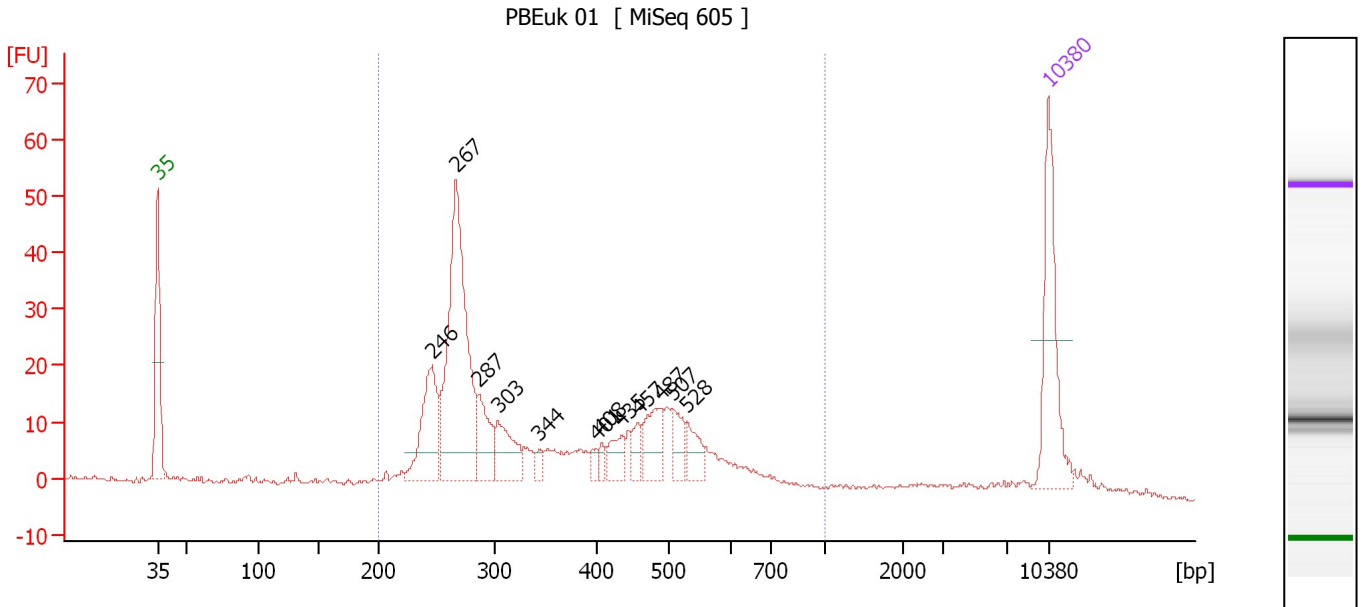
Region table for sample 3 : STA2-3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	0	0.0	0.00	0.0	0	0.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : PBEuk 01

Number of peaks found: 12 Corr. Area 1: 469.0
 Noise: 0.4

Peak table for sample 4 : PBEuk 01

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	246	92.93	572.3		64.56
3	267	262.52	1,490.5		66.47
4	287	46.10	243.6		68.29
5	303	50.65	253.2		69.75
6	344	7.76	34.2		72.99
7	401	7.54	28.5		77.51
8	408	7.71	28.7		77.91
9	435	22.04	76.8		79.46
10	457	16.19	53.7		80.75
11	487	40.08	124.7		82.48
12	507	22.74	68.0		83.54
13	528	23.19	66.6		84.57
14	10,380	75.00	10.9	Upper Marker	113.00

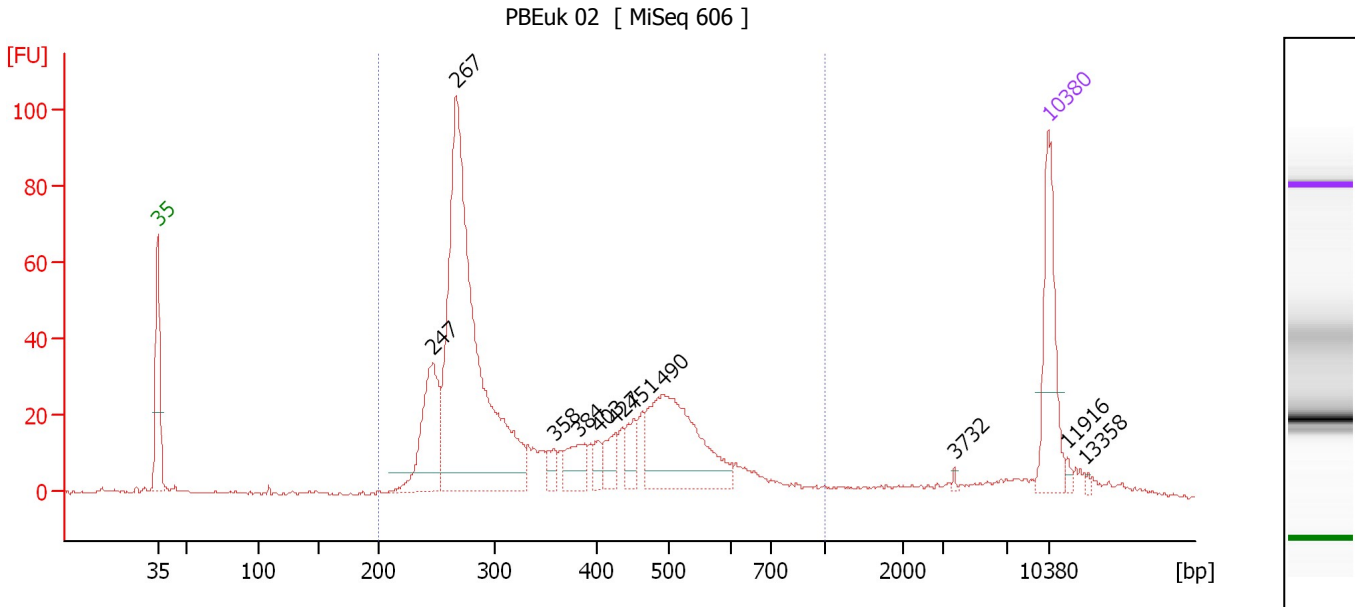
Region table for sample 4 : PBEuk 01

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	379	469.0	822.17	3,843.8	89	35.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : PBEuk 02

Number of peaks found: 11 Corr. Area 1: 885.4
 Noise: 0.4

Peak table for sample 5 : PBEuk 02

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	247	122.54	753.0		64.61
3	267	573.50	3,257.8		66.45
4	358	14.84	62.7		74.15
5	384	35.92	141.8		76.18
6	403	13.51	50.8		77.62
7	427	23.93	84.9		79.01
8	451	24.21	81.3		80.41
9	490	170.99	528.6		82.66
10	3,732	1.48	0.6		105.62
11	10,380	75.00	10.9	Upper Marker	113.00
12	11,916	0.00	0.0		114.49
13	13,358	0.00	0.0		115.88

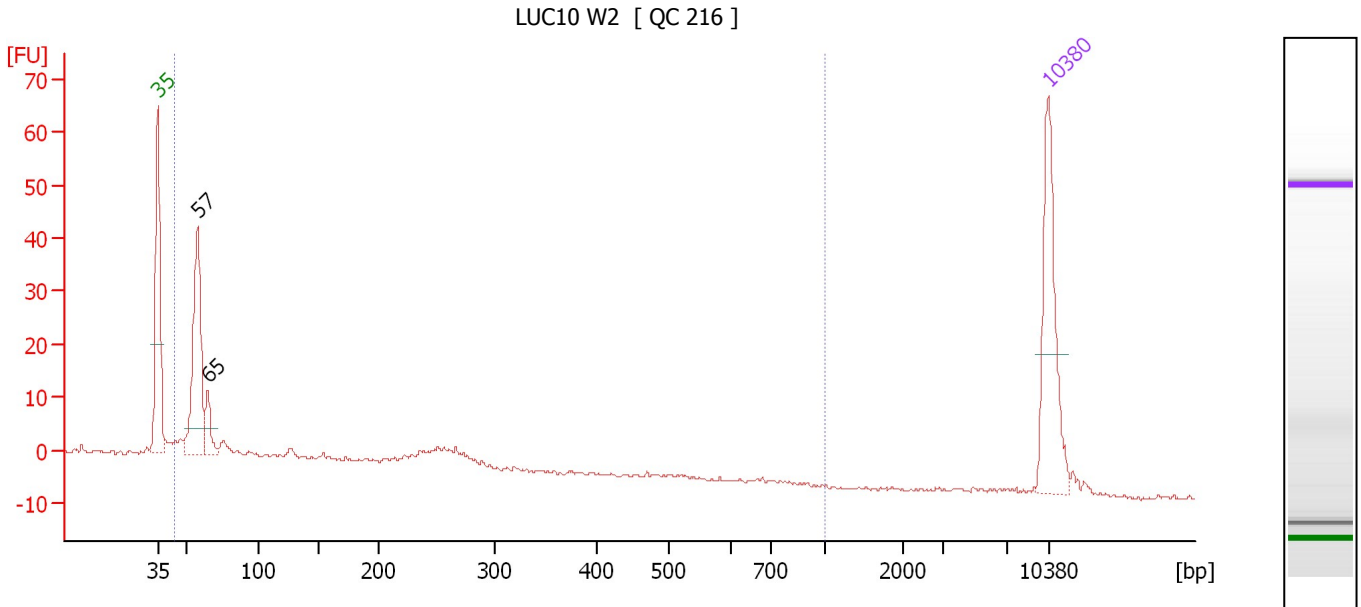
Region table for sample 5 : PBEuk 02

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	376	885.4	1,153.79	5,402.7	89	35.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : LUC10 W2

Number of peaks found: 2 Corr. Area 1: 140.4
 Noise: 0.4

Peak table for sample 6 : LUC10 W2

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	57	144.07	3,811.7		46.14
3	65	28.04	657.9		46.95
4	10,380	75.00	10.9	Upper Marker	113.00

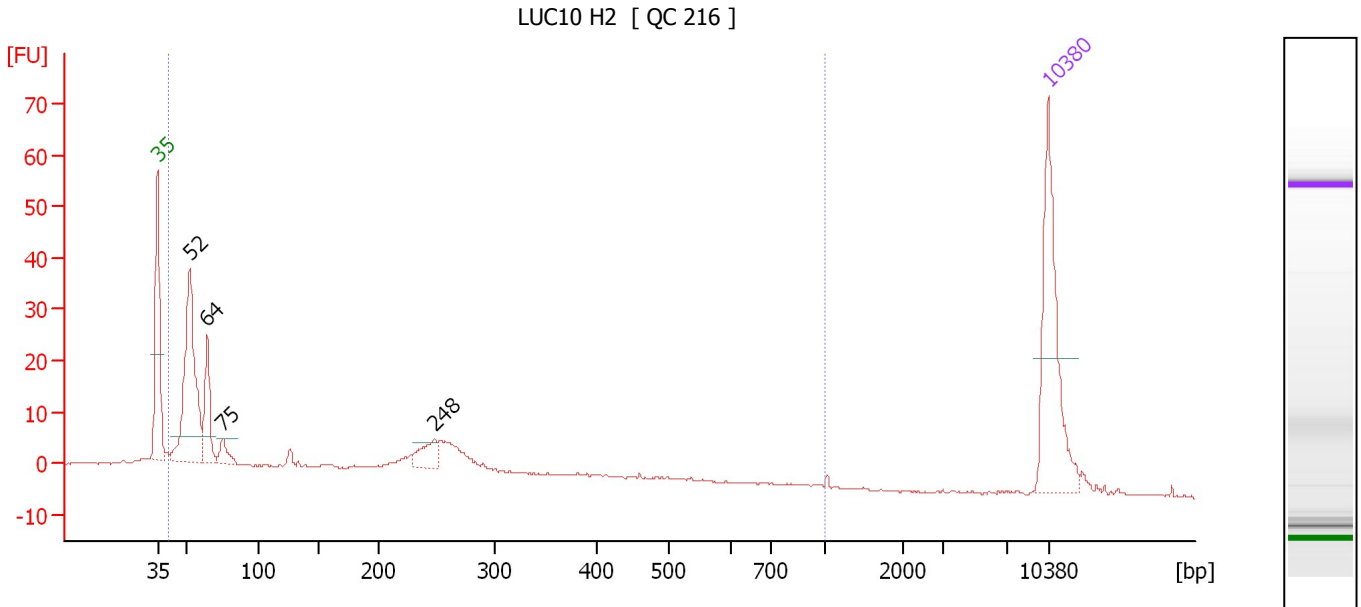
Region table for sample 6 : LUC10 W2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
43	1,000	123	140.4	275.58	5,749.3	91	79.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : LUC10 H2

Number of peaks found: 4 Corr. Area 1: 226.9
 Noise: 0.2

Peak table for sample 7 : LUC10 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	52	151.50	4,427.7		45.53
3	64	49.26	1,162.8		46.91
4	75	15.27	307.3		48.15
5	248	19.83	121.1		64.75
6	10,380	75.00	10.9	Upper Marker	113.00

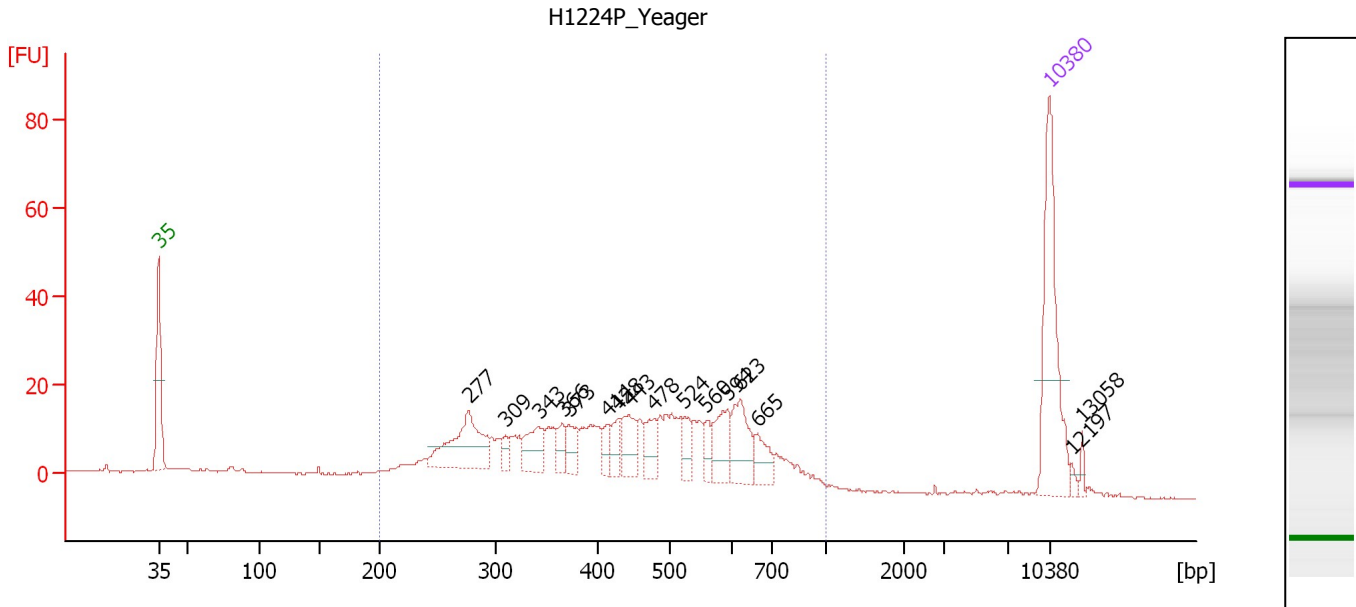
Region table for sample 7 : LUC10 H2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
40	1,000	165	226.9	385.57	7,506.1	93	80.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : H1224P_Yeager

Number of peaks found: 16 Corr. Area 1: 514.0
 Noise: 0.1

Peak table for sample 8 : H1224P_Yeager

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	68.23	373.4		67.38
3	309	8.55	41.9		70.25
4	343	27.98	123.8		72.89
5	366	13.07	54.0		74.78
6	373	14.53	59.0		75.34
7	414	10.27	37.6		78.25
8	428	14.62	51.7		79.09
9	443	25.05	85.6		79.97
10	478	18.44	58.5		81.96
11	524	14.17	41.0		84.36
12	560	11.25	30.5		86.07
13	594	27.47	70.0		87.74
14	623	34.87	84.9		88.71
15	665	17.29	39.4		90.05
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,197	0.00	0.0		114.76
18	13,058	0.00	0.0		115.59

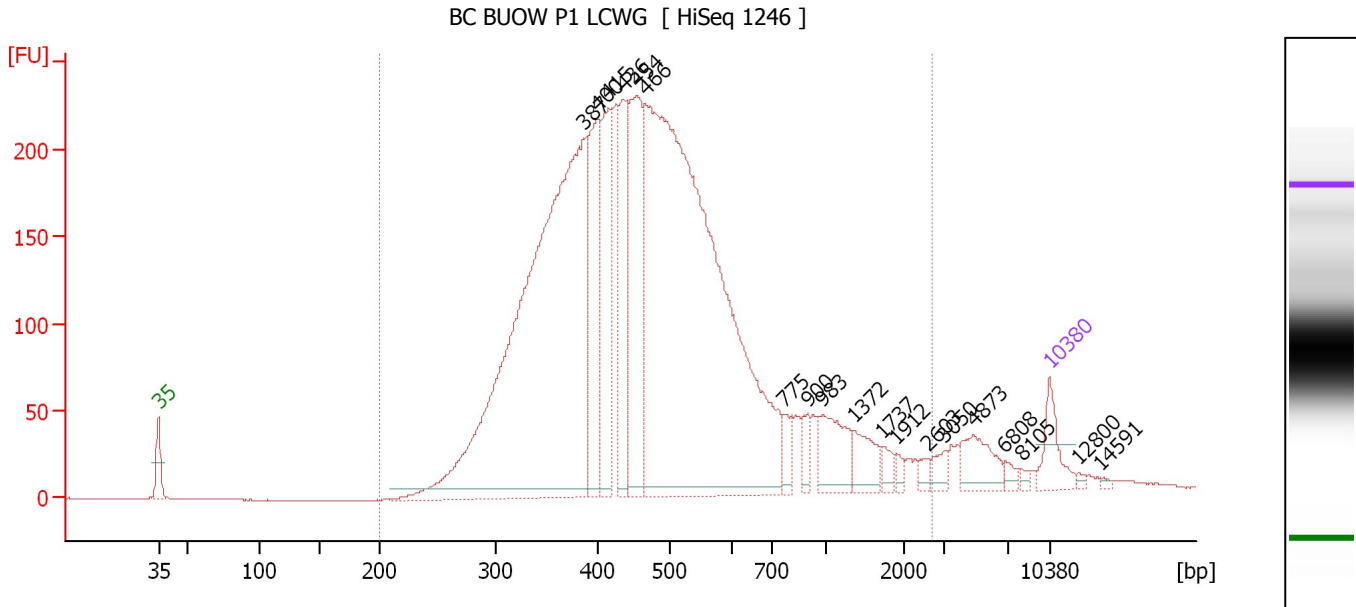
Region table for sample 8 : H1224P_Yeager

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	455	514.0	608.76	2,386.1	88	33.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : BC BUOW P1 LCWG

Number of peaks found: 19 Corr. Area 1: 5,132.7
 Noise: 0.2

Peak table for sample 9 : BC BUOW P1 LCWG

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	387	2,397.10	9,383.7		76.43
3	400	444.49	1,683.7		77.46
4	415	376.19	1,372.1		78.35
5	436	320.88	1,115.8		79.52
6	454	476.35	1,588.3		80.60
7	466	2,815.34	9,158.2		81.25
8	775	50.36	98.4		92.21
9	900	46.04	77.5		93.99
10	983	146.99	226.6		95.16
11	1,372	82.57	91.2		97.69
12	1,737	25.82	22.5		99.94
13	1,912	16.10	12.8		101.01
14	2,603	16.78	9.8		103.45
15	3,050	30.45	15.1		104.76
16	4,873	94.24	29.3		107.05
17	6,808	16.86	3.8		109.49
18	8,105	9.32	1.7		110.80
19	10,380	75.00	10.9	Upper Marker	113.00
20	12,800	0.00	0.0		115.34
21	14,591	0.00	0.0		117.07

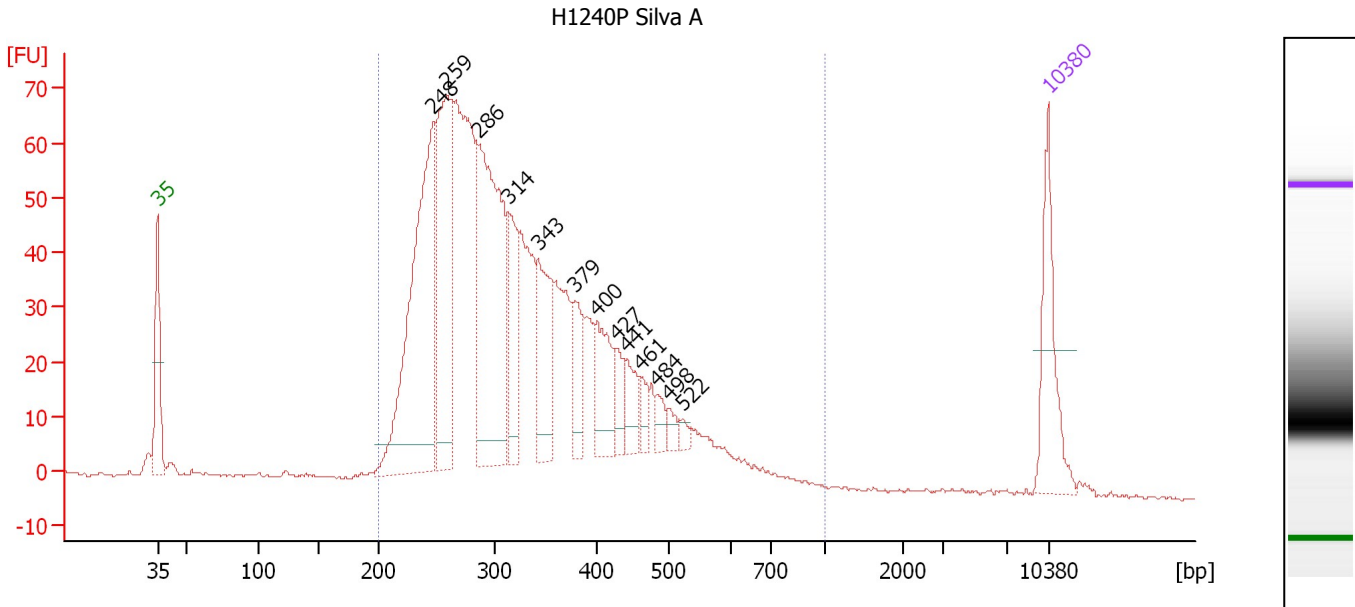
Region table for sample 9 : BC BUOW P1 LCWG

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	2,724	535	5,132.7	7,566.96	26,147.8	96	59.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : H1240P Silva A

Number of peaks found: 13 Corr. Area 1: 1,365.8
 Noise: 0.3

Peak table for sample 10 : H1240P Silva A

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	248	396.39	2,426.6		64.69
3	259	252.09	1,473.8		65.76
4	286	333.90	1,771.9		68.18
5	314	89.41	431.9		70.59
6	343	107.08	472.4		72.96
7	379	53.63	214.4		75.79
8	400	71.54	270.9		77.47
9	427	28.51	101.1		79.05
10	441	35.35	121.4		79.83
11	461	15.81	51.9		81.00
12	484	16.13	50.5		82.30
13	498	12.17	37.0		83.13
14	522	7.69	22.3		84.29
15	10,380	75.00	10.9	Upper Marker	113.00

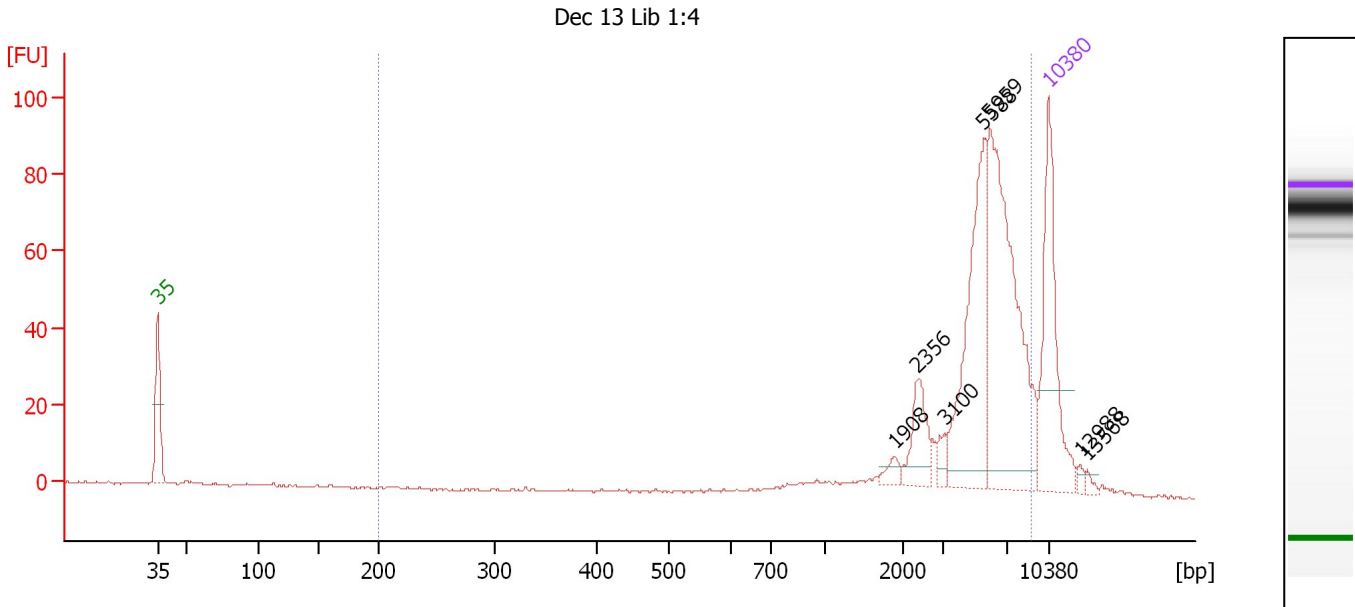
Region table for sample 10 : H1240P Silva A

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	337	1,365.8	2,404.94	11,897.7	97	30.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
 Modified: 12/18/2017 3:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Dec 13 Lib 1:4

Number of peaks found: 7 Corr. Area 1: 467.6
 Noise: 0.2

Peak table for sample 11 : Dec 13 Lib 1:4

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	1,908	6.45	5.1		100.99
3	2,356	27.81	17.9		102.67
4	3,100	7.71	3.8		104.82
5	5,588	105.74	28.7		107.95
6	5,959	162.28	41.3		108.42
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,988	0.00	0.0		115.52
9	13,568	0.00	0.0		116.08

Region table for sample 11 : Dec 13 Lib 1:4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	8,990	5,259	467.6	351.51	142.7	93	38.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-18\2017-12-18_001.xad

Created: 12/18/2017 12:34:32 PM
Modified: 12/18/2017 3:28:29 PM

Gel Image

