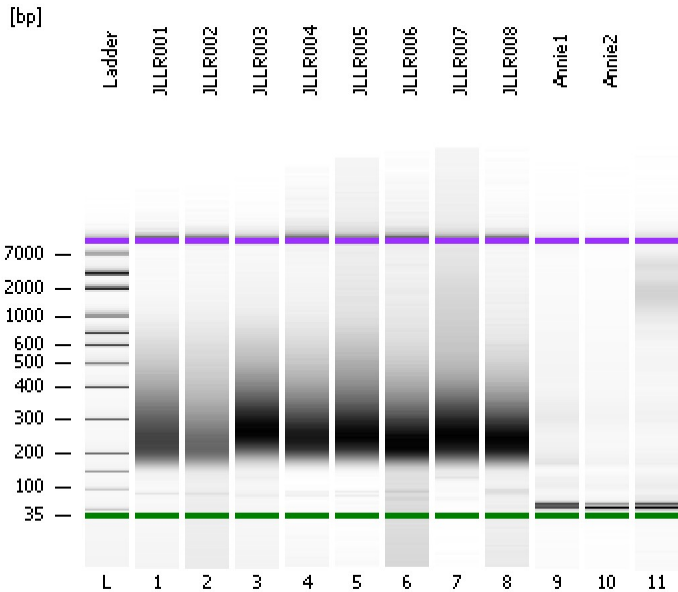


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
Modified: 5/15/2015 10:53:54 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

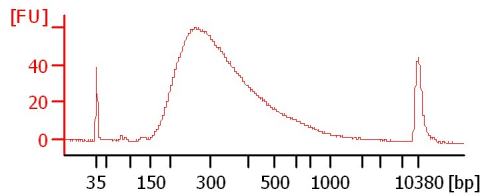
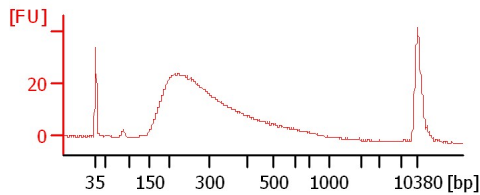
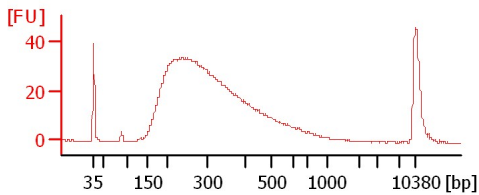
Chip Information:

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

JLLR001

JLLR002

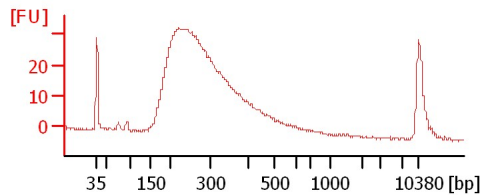
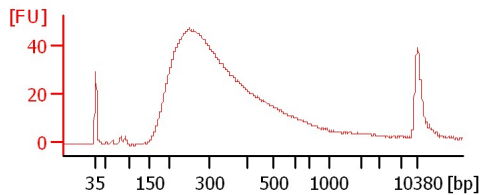
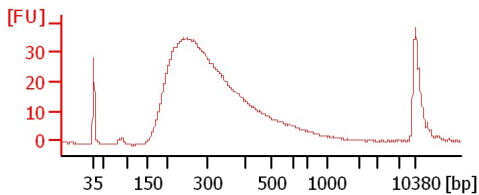
JLLR003



JLLR004

JLLR005

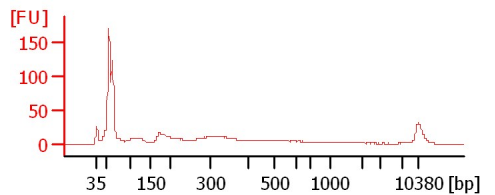
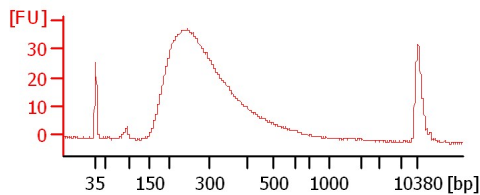
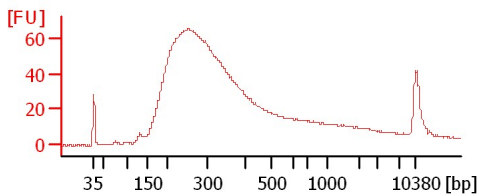
JLLR006



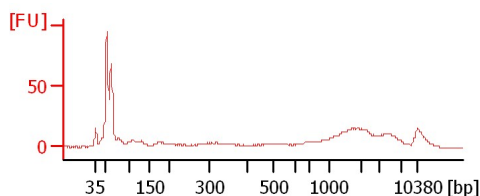
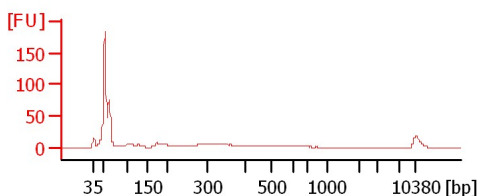
JLLR007

JLLR008

Annie1



Annie2



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JLLR001		<input type="checkbox"/>	✓			
JLLR002		<input type="checkbox"/>	✓			
JLLR003		<input type="checkbox"/>	✓			
JLLR004		<input type="checkbox"/>	✓			
JLLR005		<input type="checkbox"/>	✓			
JLLR006		<input type="checkbox"/>	✓			
JLLR007		<input type="checkbox"/>	✓			
JLLR008		<input type="checkbox"/>	✓			
Annie1		<input type="checkbox"/>	✓			
Annie2		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
Modified: 5/15/2015 10:53:54 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

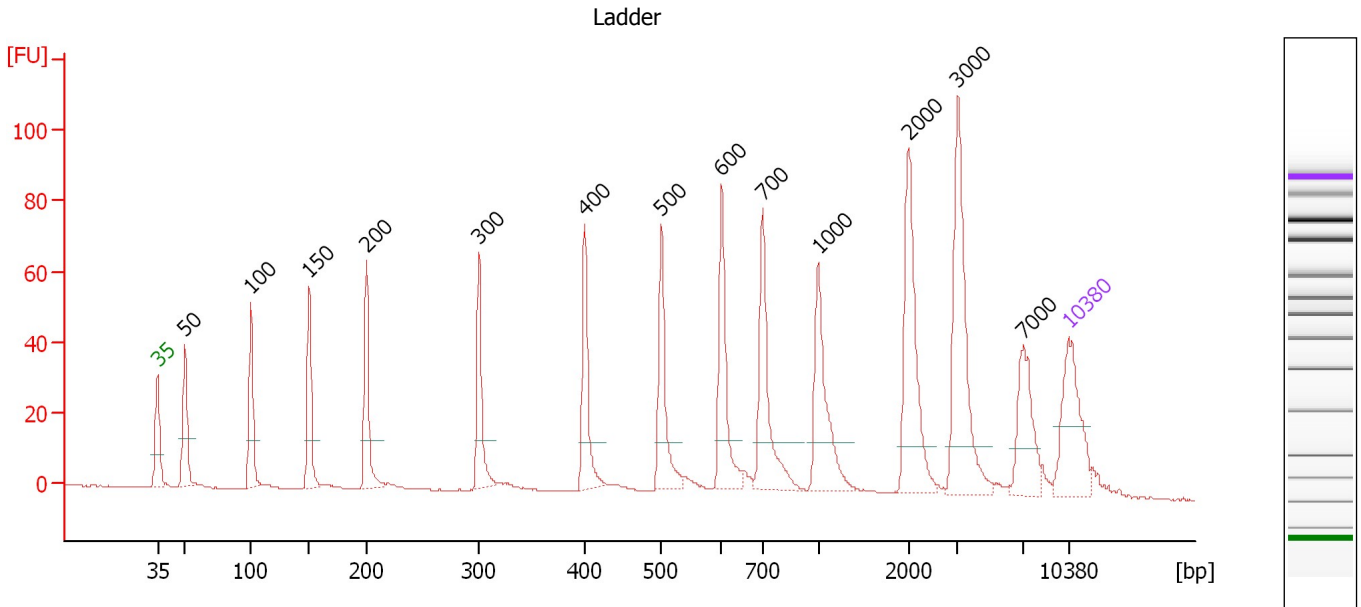
Ladder

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:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

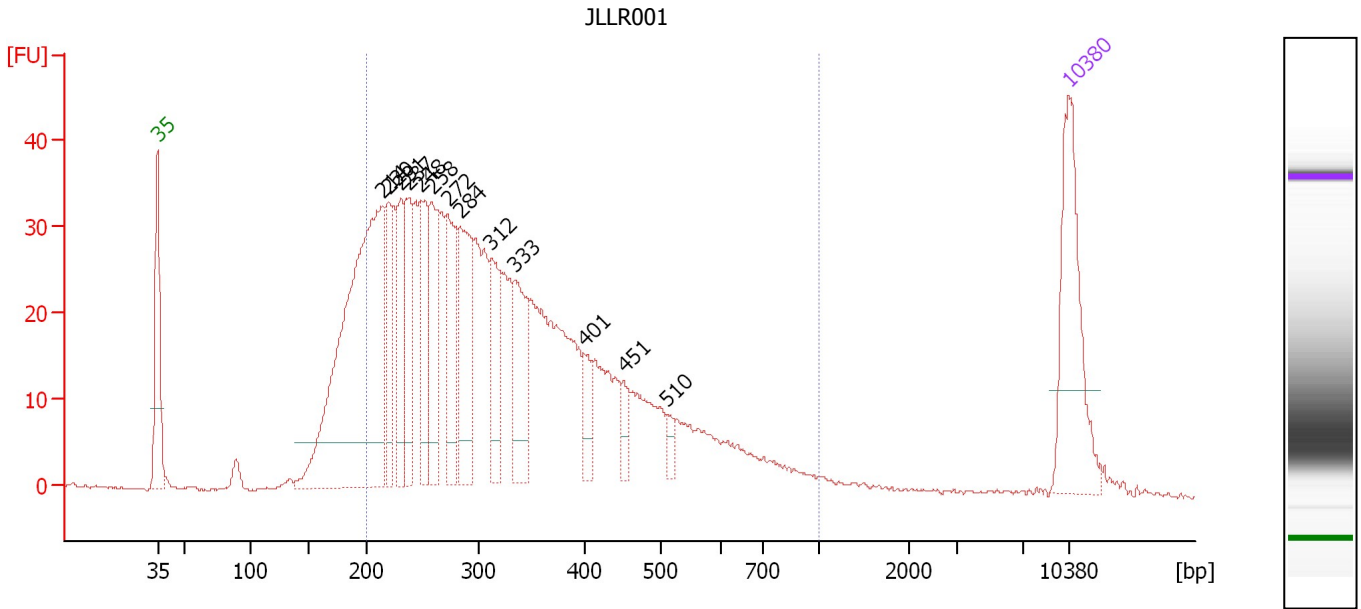
Peak table for Ladder

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	45.09
3	100	150.00	2,272.7	Ladder Peak	50.17
4	150	150.00	1,515.2	Ladder Peak	54.66
5	200	150.00	1,136.4	Ladder Peak	59.06
6	300	150.00	757.6	Ladder Peak	67.72
7	400	150.00	568.2	Ladder Peak	75.85
8	500	150.00	454.5	Ladder Peak	81.74
9	600	150.00	378.8	Ladder Peak	86.37
10	700	150.00	324.7	Ladder Peak	89.50
11	1,000	150.00	227.3	Ladder Peak	93.76
12	2,000	150.00	113.6	Ladder Peak	100.75
13	3,000	150.00	75.8	Ladder Peak	104.52
14	7,000	150.00	32.5	Ladder Peak	109.51
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : JLLR001

Number of peaks found: 13 Corr. Area 1: 863.8
 Noise: 0.2

Peak table for sample 1 : JLLR001

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	214	370.44	2,617.9		60.31
3	220	60.55	416.7		60.81
4	231	59.20	388.9		61.72
5	237	63.23	404.3		62.26
6	248	61.04	373.0		63.21
7	258	58.63	343.7		64.12
8	272	72.39	403.1		65.30
9	284	78.17	417.6		66.30
10	312	57.76	280.9		68.67
11	333	65.18	296.2		70.44
12	401	18.61	70.4		75.89
13	451	14.50	48.7		78.84
14	510	7.88	23.4		82.20
15	10,380	75.00	10.9	Upper Marker	113.00

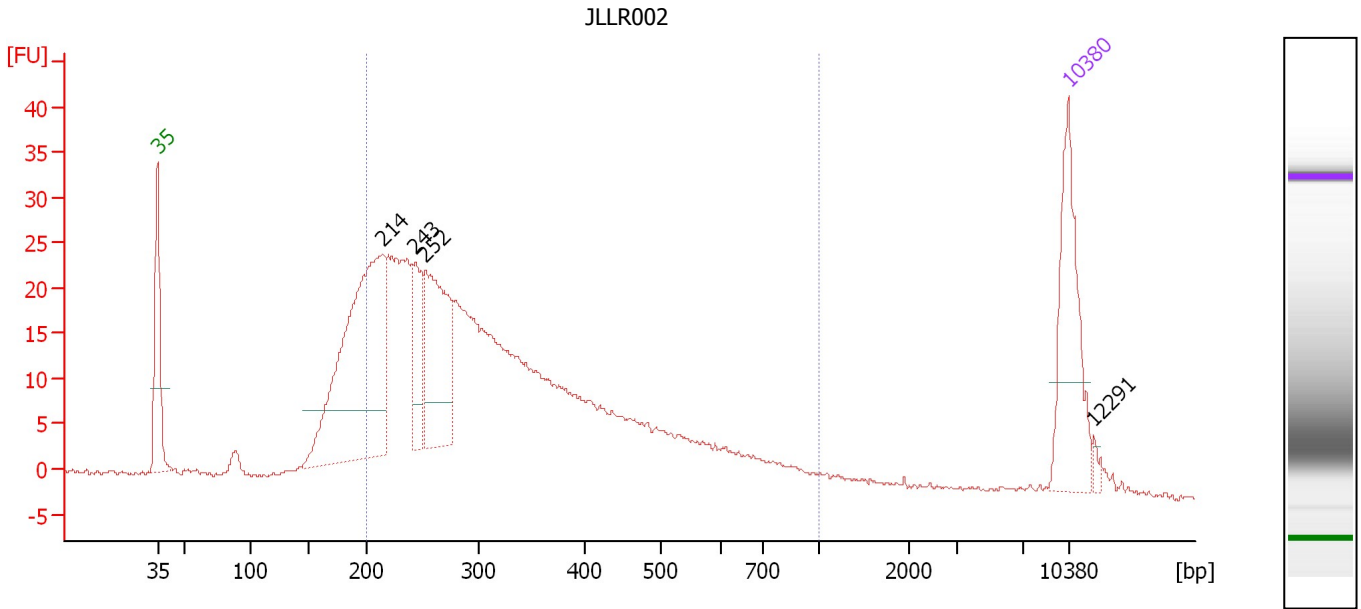
Region table for sample 1 : JLLR001

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	342	1,000	863.8	7,452.2	85	37.1	1,463.24	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : JLLR002

Number of peaks found: 4 Corr. Area 1: 556.7
 Noise: 0.3

Peak table for sample 2 : JLLR002

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	214	302.24	2,140.2		60.27
3	243	53.60	334.0		62.80
4	252	130.29	782.9		63.58
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,291	0.00	0.0		114.98

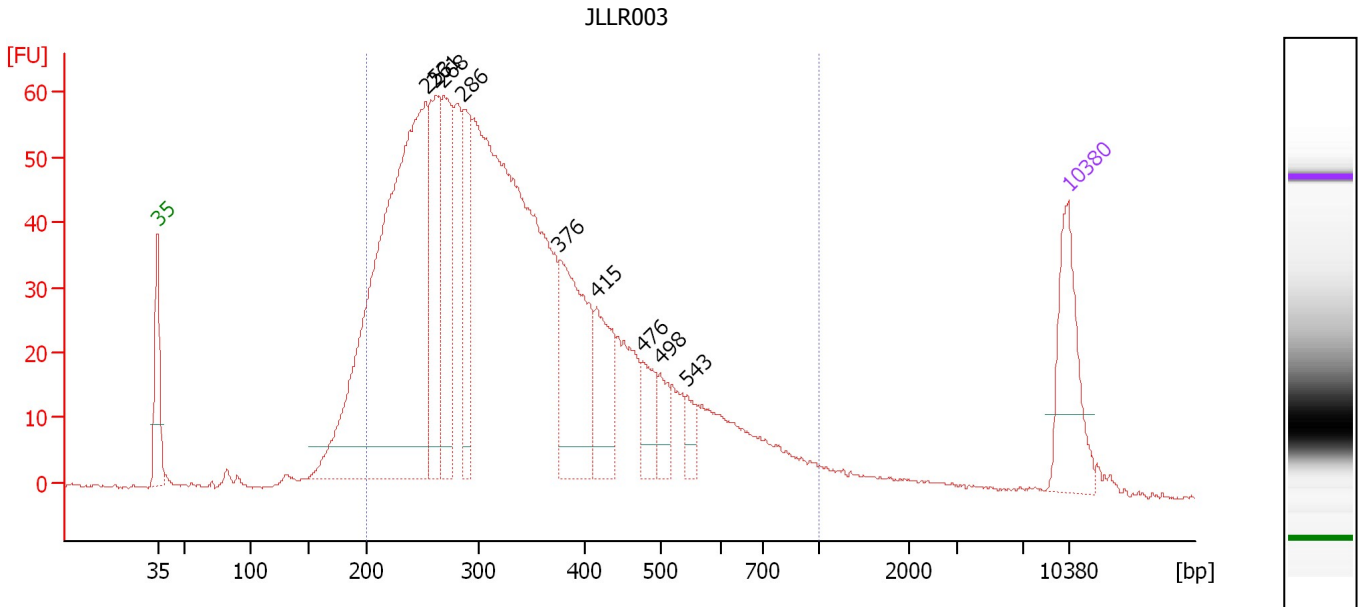
Region table for sample 2 : JLLR002

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	340	1,000	556.7	5,682.9	81	39.5	1,096.55	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : JLLR003

Number of peaks found: 9 Corr. Area 1: 1,508.7
 Noise: 0.3

Peak table for sample 3 : JLLR003

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	253	754.13	4,516.9		63.65
3	261	147.61	856.7		64.35
4	268	152.00	859.0		64.96
5	286	98.74	523.2		66.51
6	376	168.04	677.0		73.90
7	415	81.98	299.0		76.76
8	476	39.88	127.0		80.32
9	498	26.71	81.2		81.63
10	543	17.78	49.6		83.74
11	10,380	75.00	10.9	Upper Marker	113.00

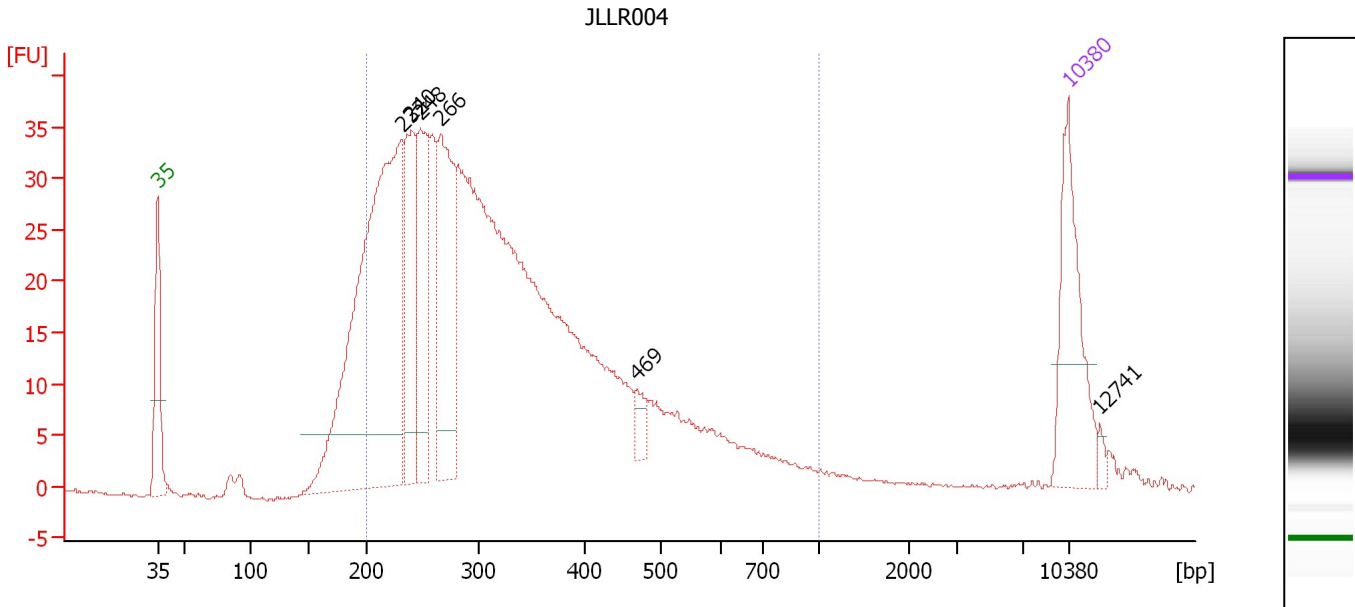
Region table for sample 3 : JLLR003

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	352	1,000	1,508.7	12,730.8	92	36.7	2,576.88	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : JLLR004

Number of peaks found: 6 Corr. Area 1: 818.9
 Noise: 0.2

Peak table for sample 4 : JLLR004

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	232	485.78	3,177.0		61.80
3	240	112.36	709.5		62.52
4	248	122.03	746.5		63.19
5	266	157.37	896.7		64.77
6	469	13.70	44.3		79.89
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,741	0.00	0.0		115.44

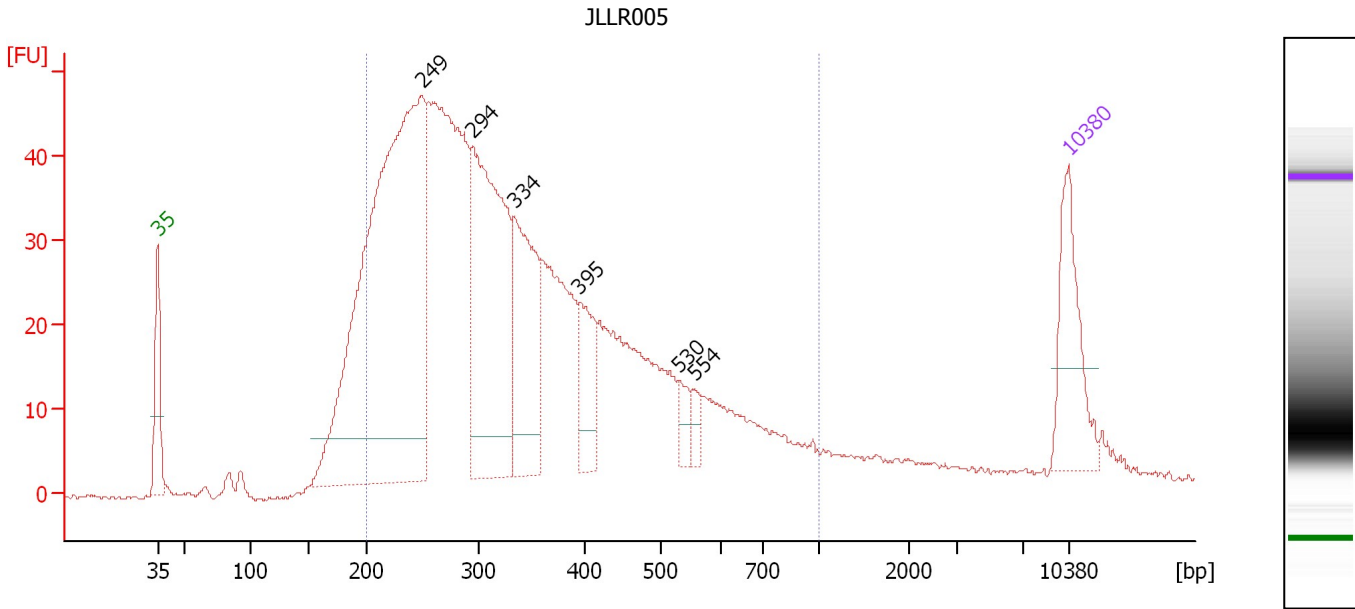
Region table for sample 4 : JLLR004

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	338	1,000	818.9	8,868.1	88	37.5	1,727.67	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : JLLR005

Number of peaks found: 6 Corr. Area 1: 1,154.0
 Noise: 0.3

Peak table for sample 5 : JLLR005

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	249	845.05	5,140.3		63.31
3	294	356.06	1,834.6		67.21
4	334	175.84	798.0		70.47
5	395	68.36	262.2		75.44
6	530	20.84	59.5		83.14
7	554	14.69	40.2		84.26
8	10,380	75.00	10.9	Upper Marker	113.00

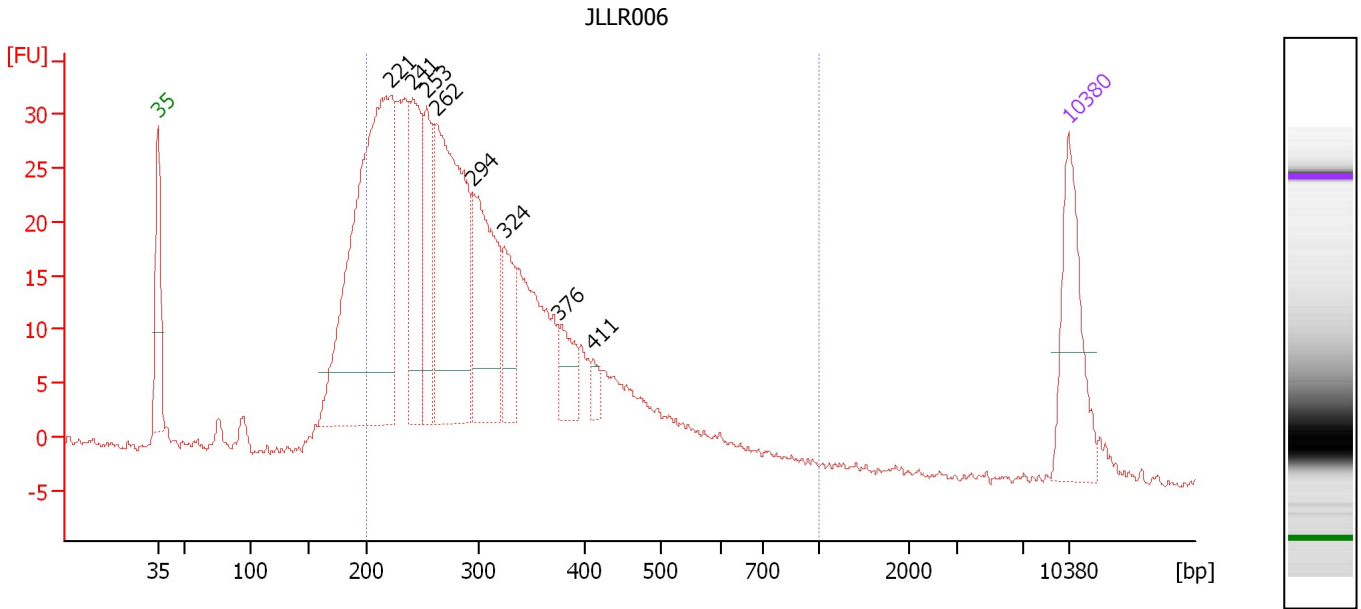
Region table for sample 5 : JLLR005

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	354	1,000	1,154.0	12,212.0	87	39.2	2,446.86	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : JLLR006

Number of peaks found: 8 Corr. Area 1: 676.3
 Noise: 0.4

Peak table for sample 6 : JLLR006

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	221	479.25	3,282.9		60.90
3	241	128.98	810.3		62.63
4	253	86.30	516.5		63.66
5	262	276.90	1,603.2		64.41
6	294	157.18	809.4		67.22
7	324	54.79	256.5		69.65
8	376	35.16	141.7		73.90
9	411	10.74	39.5		76.52
10	10,380	75.00	10.9	Upper Marker	113.00

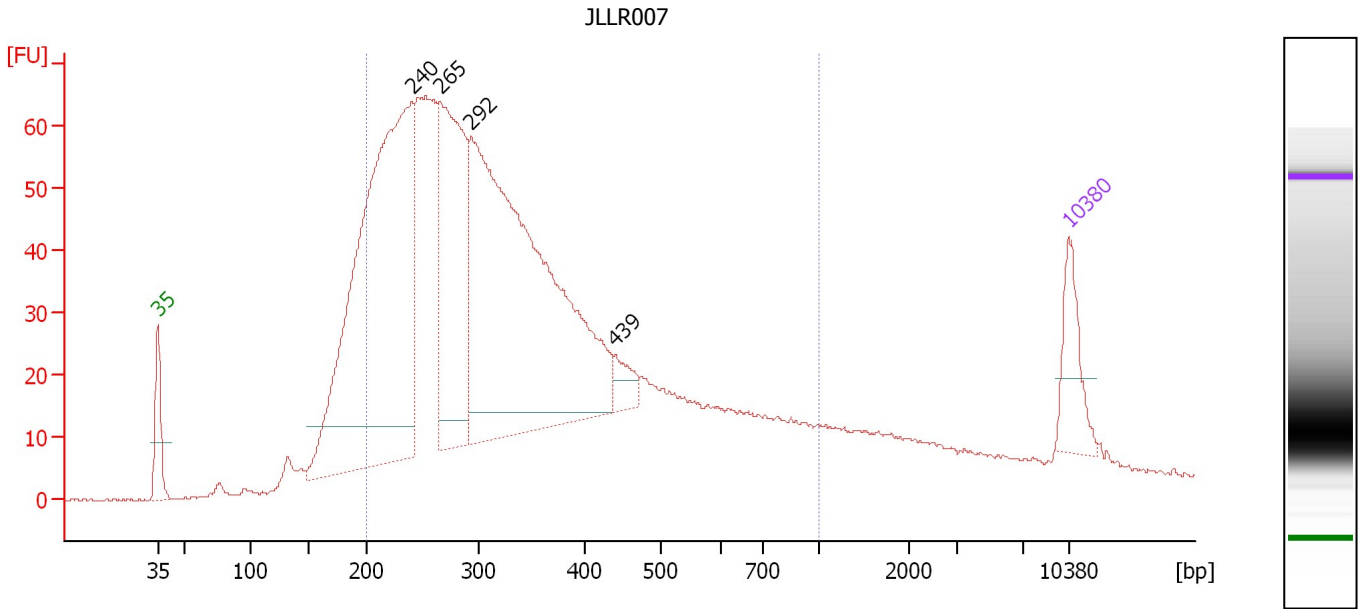
Region table for sample 6 : JLLR006

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	315	1,000	676.3	9,075.3	85	34.4	1,693.86	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : JLLR007

Number of peaks found: 4 Corr. Area 1: 1,575.9
 Noise: 0.3

Peak table for sample 7 : JLLR007

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	240	1,229.18	7,751.7		62.55
3	265	508.10	2,903.0		64.71
4	292	1,215.38	6,296.8		67.07
5	439	40.76	140.8		78.13
6	10,380	75.00	10.9	Upper Marker	113.00

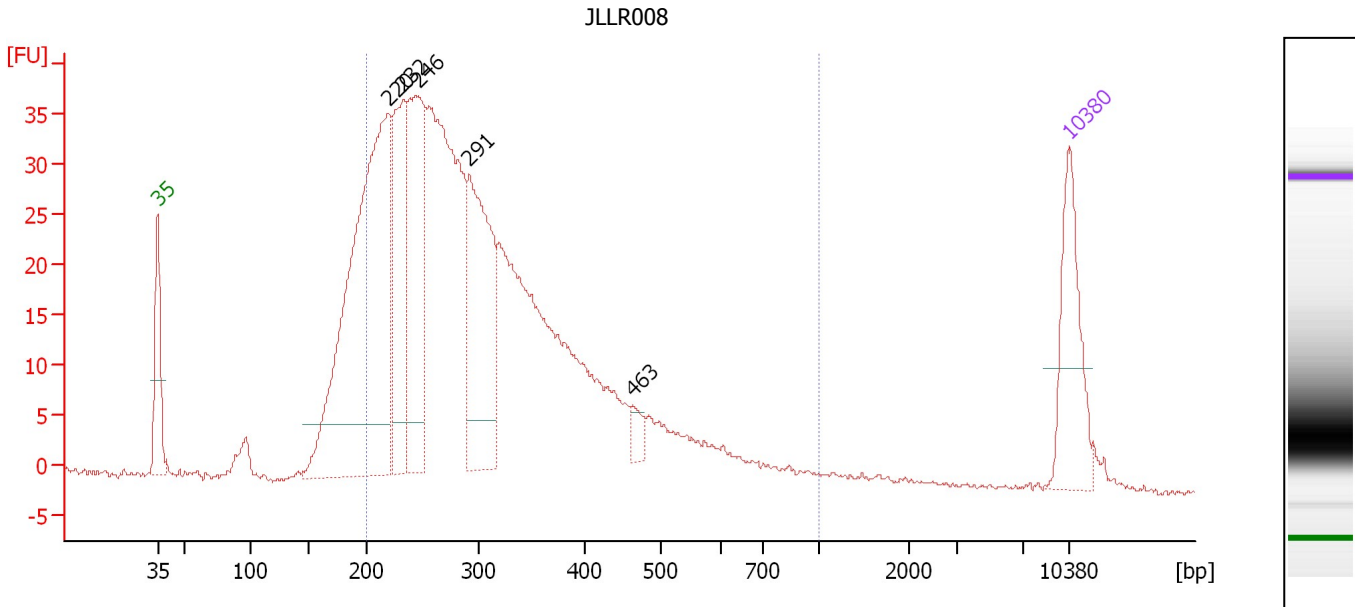
Region table for sample 7 : JLLR007

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	357	1,000	1,575.9	20,573.2	81	42.0	4,100.81	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : JLLR008

Number of peaks found: 5 Corr. Area 1: 757.1
 Noise: 0.3

Peak table for sample 8 : JLLR008

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	220	548.05	3,780.1		60.76
3	232	160.63	1,047.0		61.87
4	246	210.57	1,294.9		63.08
5	291	217.10	1,130.0		66.95
6	463	15.05	49.3		79.53
7	10,380	75.00	10.9	Upper Marker	113.00

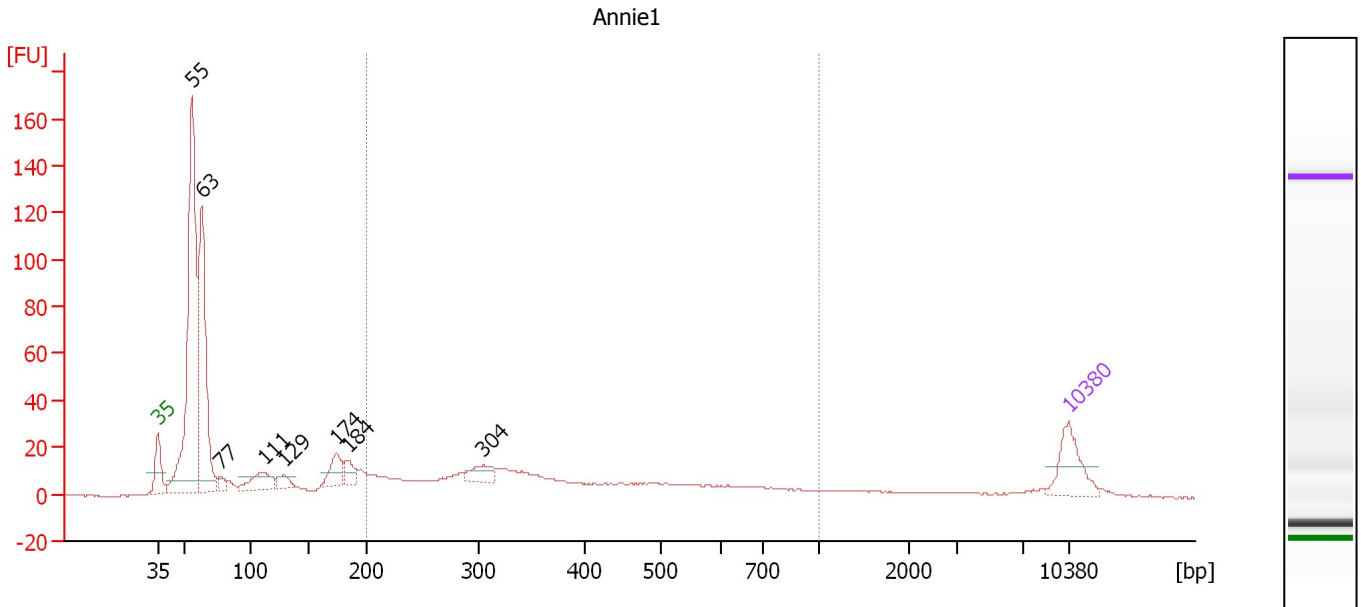
Region table for sample 8 : JLLR008

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	316	1,000	757.1	10,001.7	86	34.3	1,872.12	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Annie1

Number of peaks found: 8 Corr. Area 1: 316.3
 Noise: 0.3

Peak table for sample 9 : Annie1

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	55	805.62	22,091.9		45.62
3	63	534.17	12,910.1		46.38
4	77	21.00	412.9		47.84
5	111	73.12	997.2		51.16
6	129	28.44	333.9		52.78
7	174	64.00	557.8		56.76
8	184	41.61	343.4		57.61
9	304	47.97	239.1		68.05
10	10,380	75.00	10.9	Upper Marker	113.00

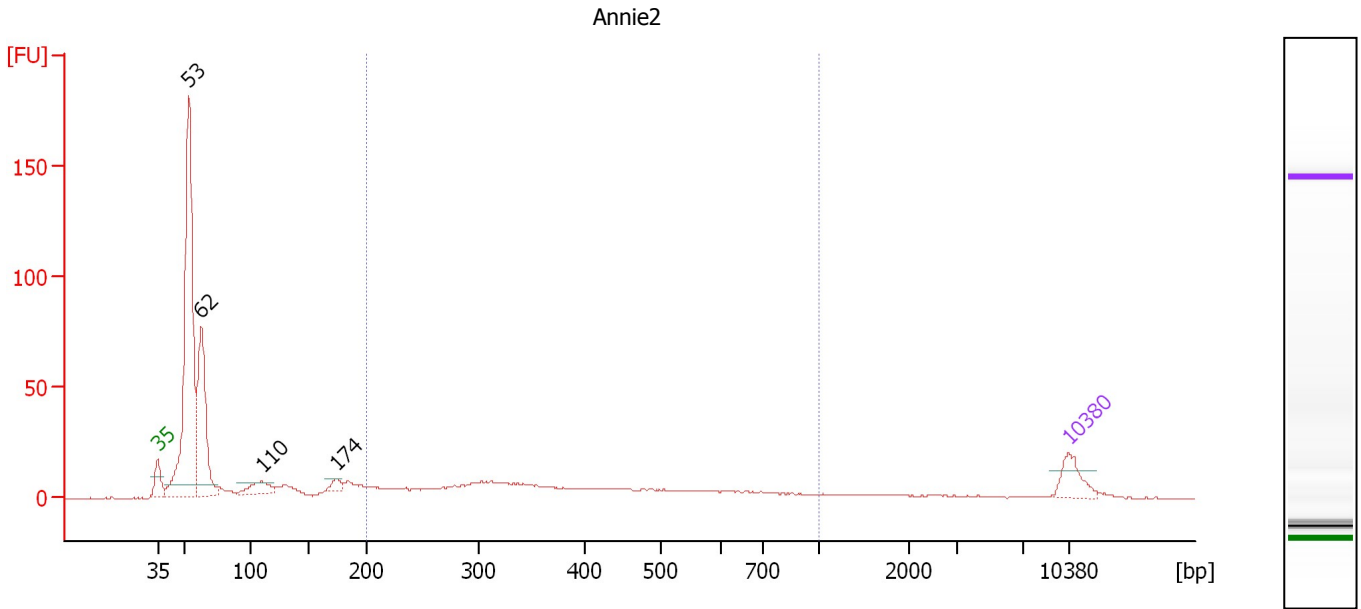
Region table for sample 9 : Annie1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	404	1,000	316.3	3,266.5	32	41.7	717.57	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Annie2

Number of peaks found: 4 Corr. Area 1: 210.5
 Noise: 0.3

Peak table for sample 10 : Annie2

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	53	1,383.13	39,290.5		45.43
3	62	563.33	13,702.5		46.34
4	110	92.59	1,279.2		51.04
5	174	36.50	318.3		56.75
6	10,380	75.00	10.9	Upper Marker	113.00

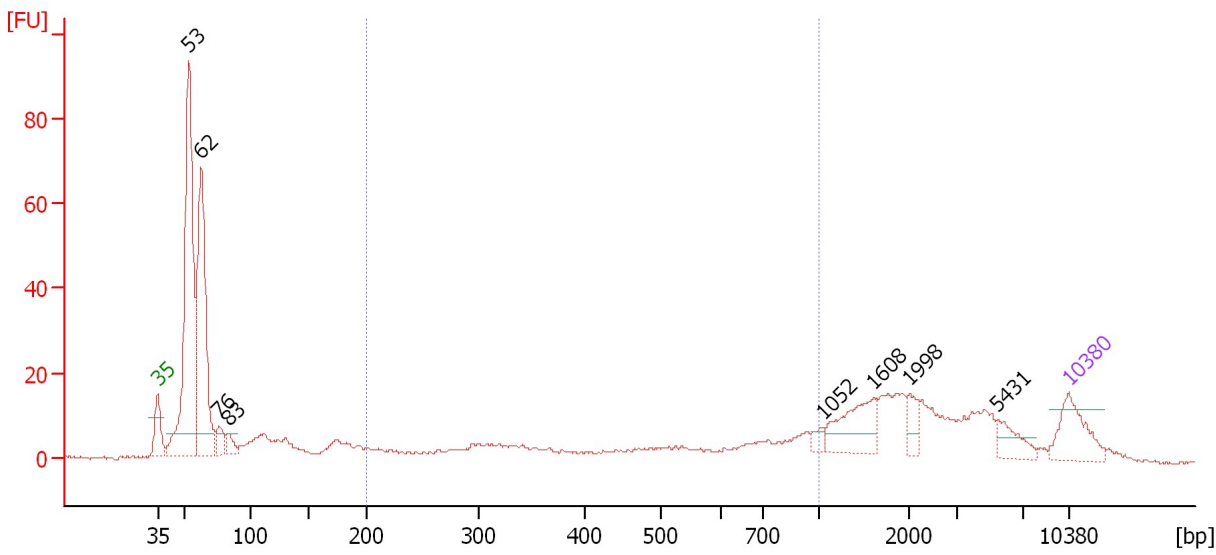
Region table for sample 10 : Annie2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	414	1,000	210.5	3,429.7	28	40.9	771.76	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
 Modified: 5/15/2015 10:53:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 :

Number of peaks found: 8 Corr. Area 1: 117.2
 Noise: 0.4

Peak table for sample 11 :

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	53	710.07	20,184.0		45.42
3	62	509.23	12,396.1		46.33
4	76	39.73	790.5		47.74
5	83	30.75	560.7		48.45
6	1,052	14.39	20.7		94.12
7	1,608	100.06	94.3		98.01
8	1,998	29.85	22.6		100.74
9	5,431	40.48	11.3		107.55
10	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 :

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	528	1,000	117.2	1,510.8	18	43.4	396.21	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-15\2015-05-15_001.xad

Created: 5/15/2015 10:11:38 AM
Modified: 5/15/2015 10:53:54 AM

Gel Image

