

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-10\2017-10-10_002.xad

Created: 10/10/2017 4:42:57 PM
Modified: 10/10/2017 5:24:31 PM

Electrophoresis File Run Summary

Instrument Information:

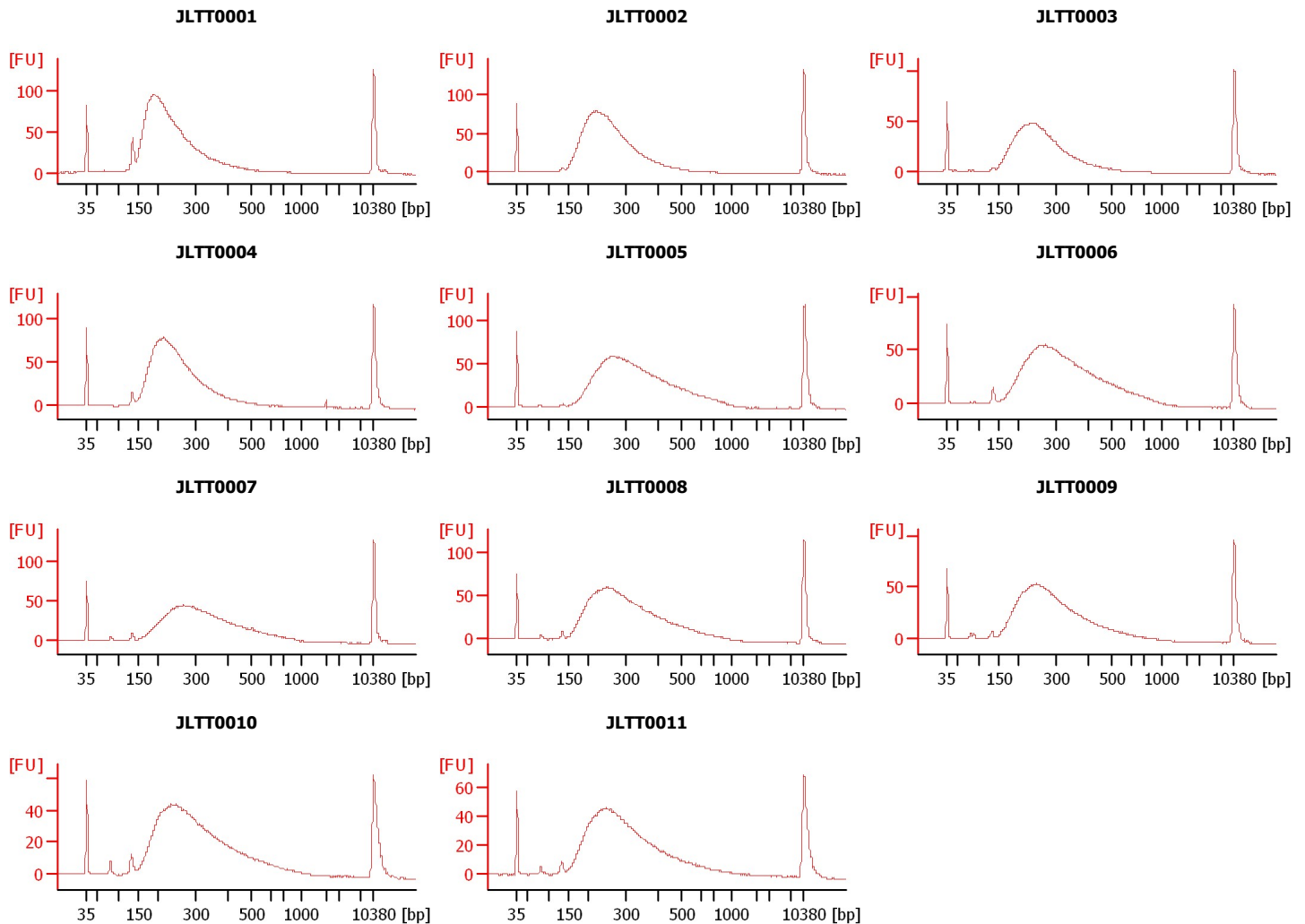
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JLTT0001		<input type="checkbox"/>	✓			
JLTT0002		<input type="checkbox"/>	✓			
JLTT0003		<input type="checkbox"/>	✓			
JLTT0004		<input type="checkbox"/>	✓			
JLTT0005		<input type="checkbox"/>	✓			
JLTT0006		<input type="checkbox"/>	✓			
JLTT0007		<input type="checkbox"/>	✓			
JLTT0008		<input type="checkbox"/>	✓			
JLTT0009		<input type="checkbox"/>	✓			
JLTT0010		<input type="checkbox"/>	✓			
JLTT0011		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

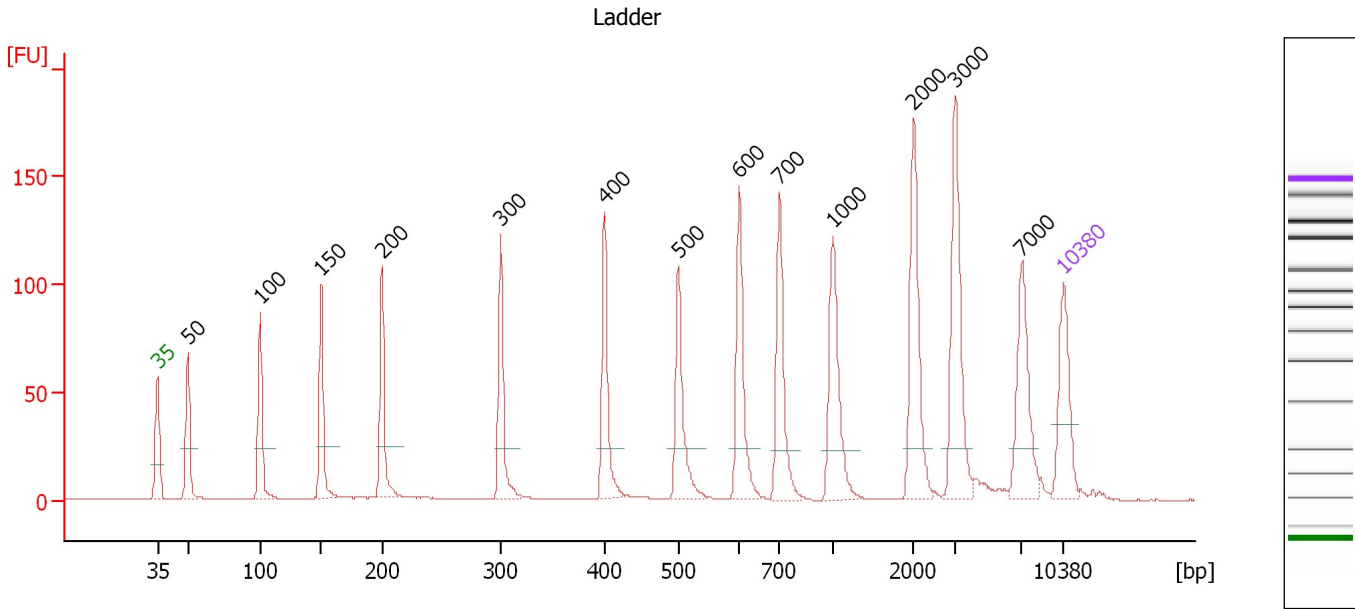
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

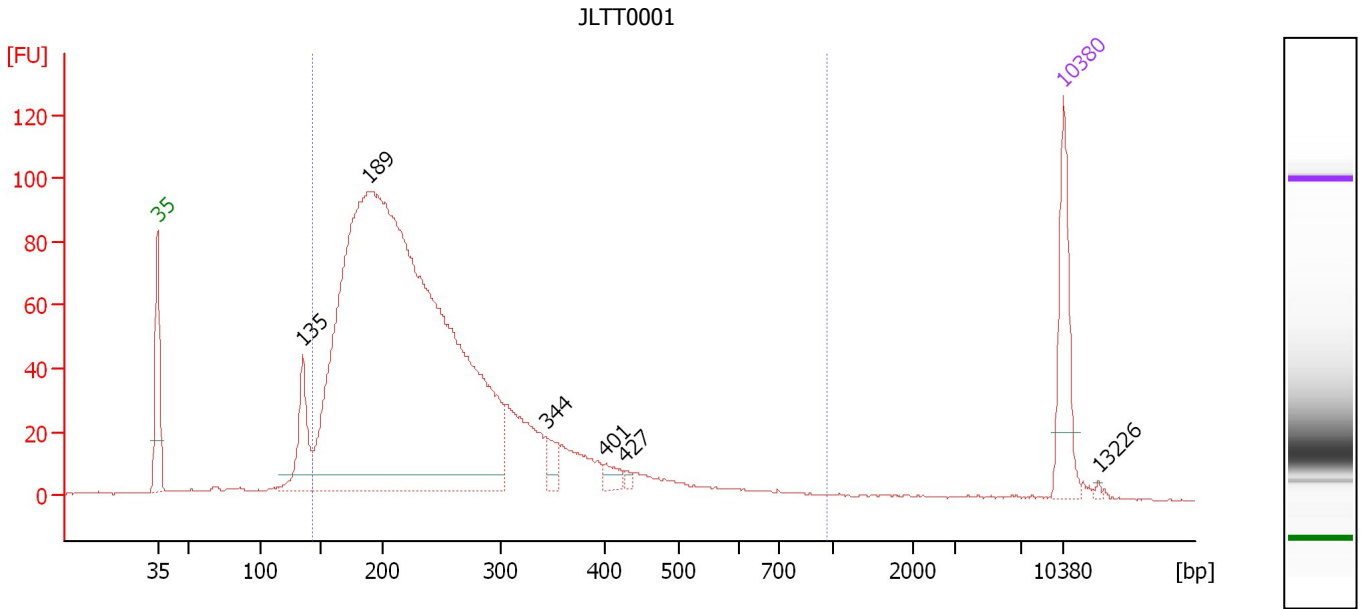
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	50.93
4	150	150.00	1,515.2	Ladder Peak	55.64
5	200	150.00	1,136.4	Ladder Peak	60.35
6	300	150.00	757.6	Ladder Peak	69.54
7	400	150.00	568.2	Ladder Peak	77.56
8	500	150.00	454.5	Ladder Peak	83.23
9	600	150.00	378.8	Ladder Peak	87.94
10	700	150.00	324.7	Ladder Peak	91.03
11	1,000	150.00	227.3	Ladder Peak	95.17
12	2,000	150.00	113.6	Ladder Peak	101.45
13	3,000	150.00	75.8	Ladder Peak	104.63
14	7,000	150.00	32.5	Ladder Peak	109.77
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : JLT0001

Number of peaks found: 6 Corr. Area 1: 1,881.4
 Noise: 0.2

Peak table for sample 1 : JLT0001

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	135	100.98	1,134.6		54.21
3	189	2,079.69	16,687.6		59.30
4	344	25.40	112.0		73.05
5	401	14.93	56.4		77.61
6	427	5.49	19.5		79.10
7	10,380	75.00	10.9	Upper Marker	113.00
8	13,226	0.00	0.0		115.72

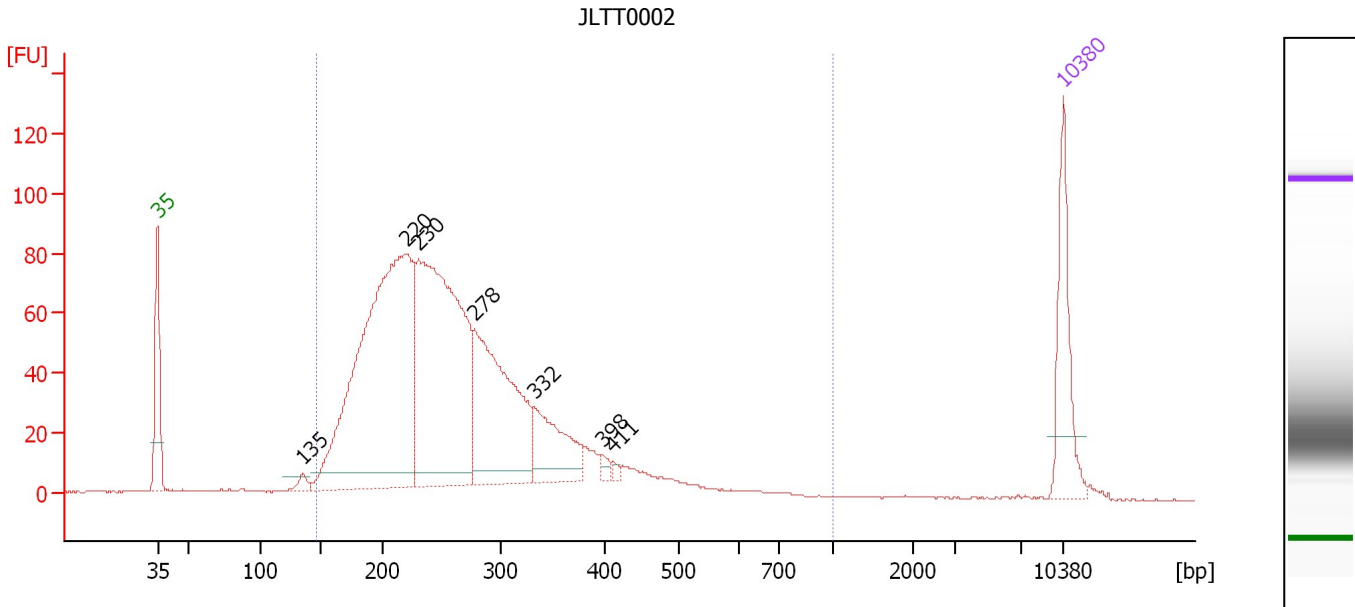
Region table for sample 1 : JLT0001

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
142	967	252	1,881.4	15,989.4	2,337.82	92	37.8

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Electropherogram Summary Continued ...



Overall Results for sample 2 : JLTT0002

Number of peaks found: 7 Corr. Area 1: 1,726.8
 Noise: 0.2

Peak table for sample 2 : JLTT0002

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	135	12.41	139.2		54.24
3	220	704.66	4,855.0		62.18
4	230	547.46	3,600.0		63.14
5	278	282.29	1,537.8		67.53
6	332	102.00	465.7		72.10
7	398	6.58	25.0		77.41
8	411	4.07	15.0		78.20
9	10,380	75.00	10.9	Upper Marker	113.00

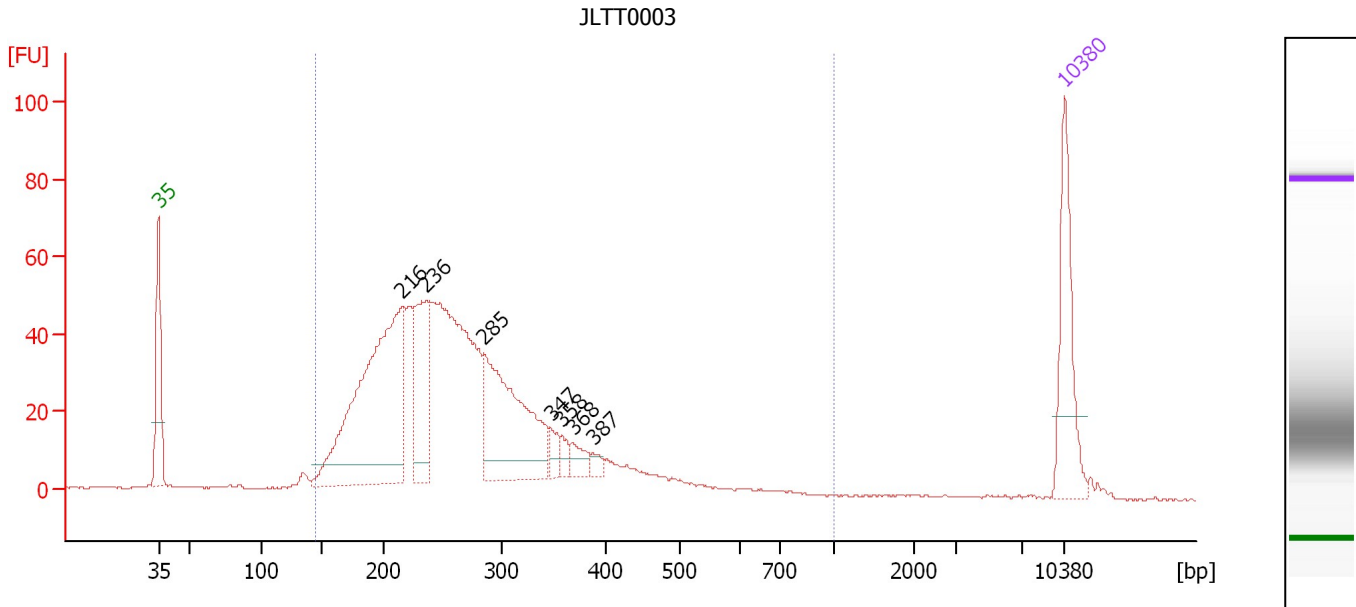
Region table for sample 2 : JLTT0002

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
146	1,000	268	1,726.8	11,653.8	1,862.32	97	31.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-10\2017-10-10_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : JLTT0003

Number of peaks found: 7 Corr. Area 1: 1,112.1
 Noise: 0.2

Peak table for sample 3 : JLTT0003

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	216	395.74	2,772.8		61.84
3	236	120.69	776.4		63.61
4	285	211.29	1,124.5		68.14
5	347	14.52	63.4		73.32
6	358	11.23	47.5		74.21
7	368	17.33	71.3		75.01
8	387	8.60	33.6		76.56
9	10,380	75.00	10.9	Upper Marker	113.00

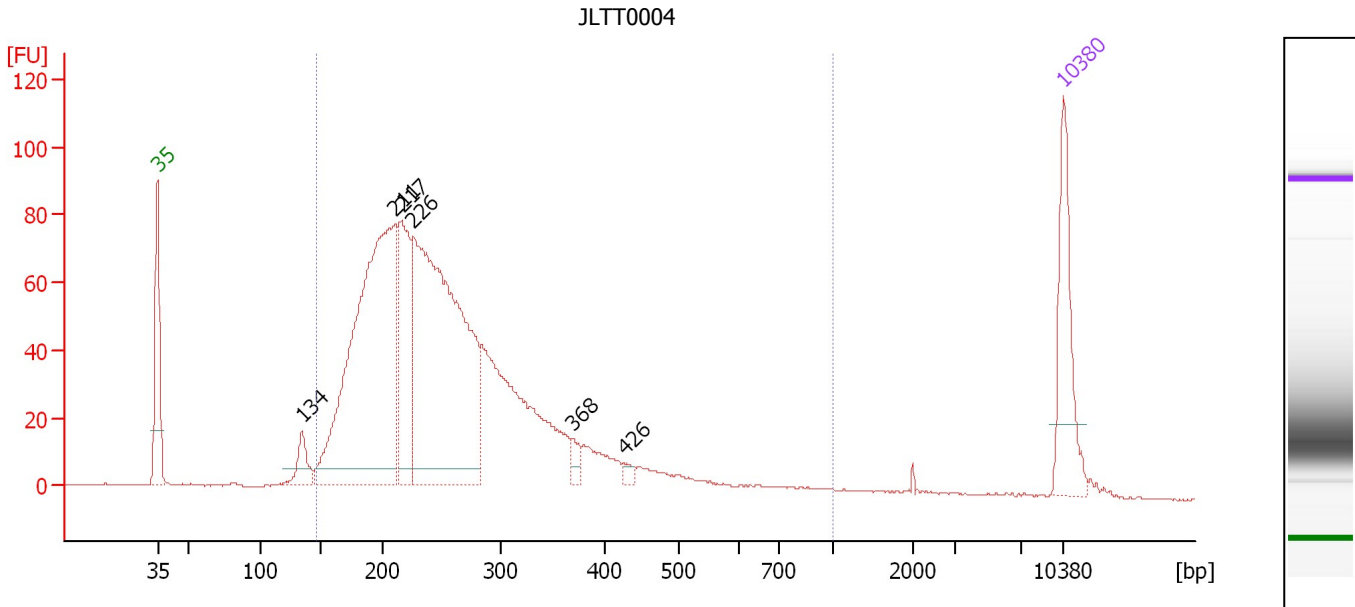
Region table for sample 3 : JLTT0003

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
144	1,000	274	1,112.1	8,797.5	1,425.10	95	32.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-10\2017-10-10_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : JLTT0004

Number of peaks found: 6 Corr. Area 1: 1,608.0
 Noise: 0.2

Peak table for sample 4 : JLTT0004

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	134	35.62	401.5		54.17
3	211	575.33	4,136.9		61.33
4	217	159.66	1,116.8		61.87
5	226	589.10	3,942.6		62.77
6	368	12.72	52.3		75.03
7	426	5.97	21.2		79.04
8	10,380	75.00	10.9	Upper Marker	113.00

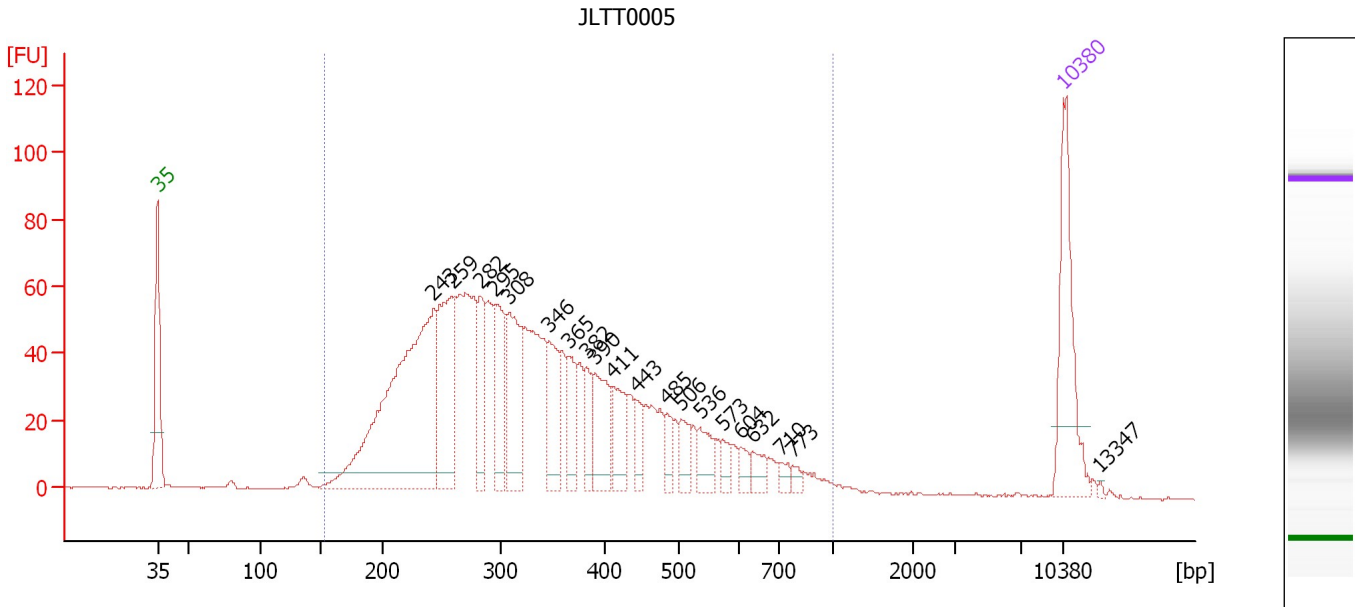
Region table for sample 4 : JLTT0004

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
146	1,000	269	1,608.0	11,413.1	1,789.99	94	37.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-10\2017-10-10_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : JLTT0005

Number of peaks found: 20 Corr. Area 1: 1,692.4
 Noise: 0.2

Peak table for sample 5 : JLTT0005

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	243	370.58	2,308.4		64.32
3	259	125.08	732.8		65.74
4	282	51.82	278.0		67.93
5	295	70.03	359.8		69.07
6	308	97.22	478.6		70.17
7	346	54.50	238.7		73.23
8	365	36.18	150.3		74.74
9	382	25.98	103.0		76.15
10	390	54.45	211.3		76.79
11	411	41.22	152.1		78.16
12	443	17.80	60.9		79.99
13	485	14.78	46.1		82.41
14	506	21.26	63.7		83.50
15	536	22.98	65.0		84.92
16	573	9.94	26.3		86.65
17	604	9.75	24.4		88.07
18	632	12.74	30.5		88.94
19	710	7.45	15.9		91.17
20	773	5.53	10.8		92.04
21	10,380	75.00	10.9	Upper Marker	113.00
22	13,347	0.00	0.0		115.83

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-10\2017-10-10_002.xad

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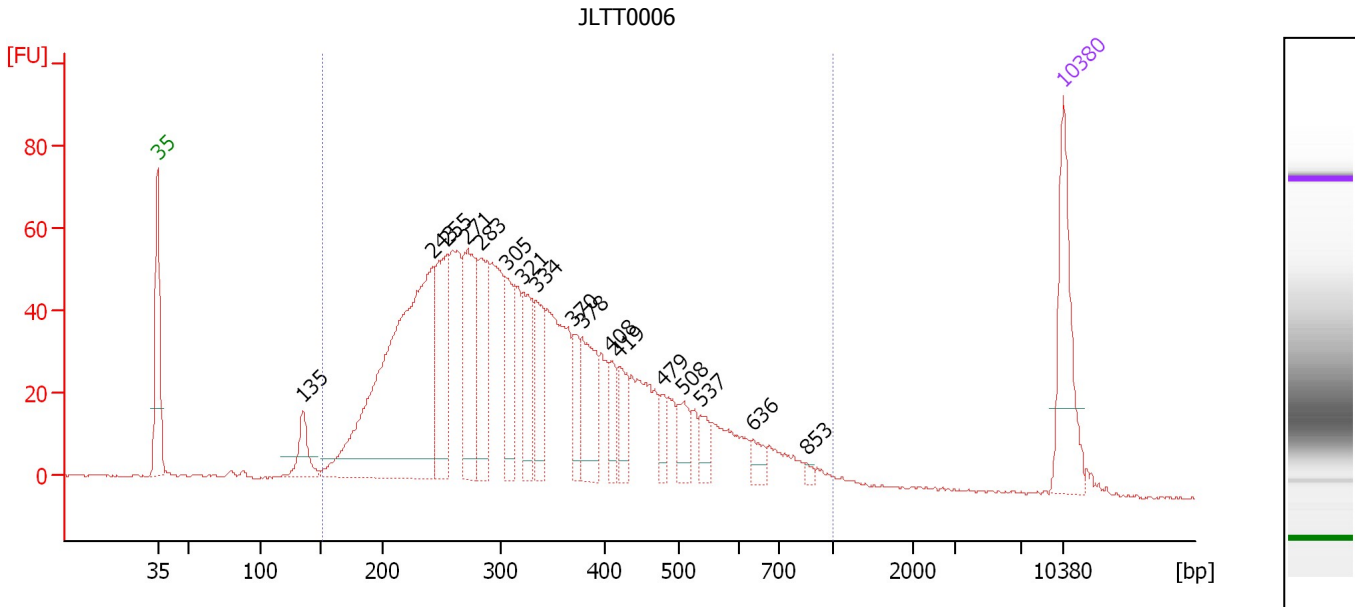
Electropherogram Summary Continued ...**... Region table for sample 5 : JLTT0005**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
152	1,000	353	1,692.4	8,309.6	■ 1,641.04	97	38.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-10\2017-10-10_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : JLT0006

Number of peaks found: 17 Corr. Area 1: 1,636.7
 Noise: 0.3

Peak table for sample 6 : JLT0006

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	135	40.26	450.6		54.26
3	243	478.62	2,987.2		64.28
4	255	117.39	698.2		65.38
5	271	130.11	726.8		66.90
6	283	90.49	484.9		67.96
7	305	61.29	304.6		69.93
8	321	61.88	291.6		71.27
9	334	60.76	276.0		72.23
10	370	33.32	136.6		75.13
11	378	70.03	280.5		75.82
12	408	25.15	93.4		78.02
13	419	34.30	124.1		78.62
14	479	17.61	55.6		82.07
15	508	26.94	80.3		83.63
16	537	17.99	50.8		84.96
17	636	14.01	33.4		89.05
18	853	4.04	7.2		93.14
19	10,380	75.00	10.9	Upper Marker	113.00

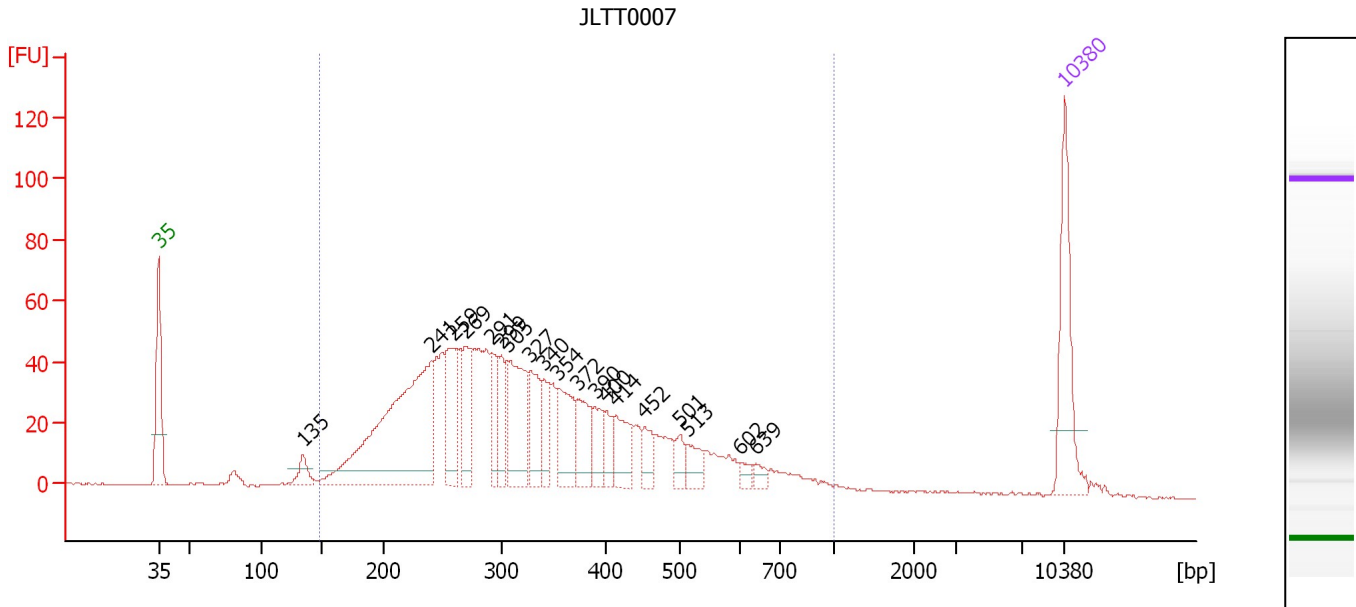
Region table for sample 6 : JLT0006

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
151	1,000	348	1,636.7	10,415.6	2,020.22	95	38.6

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Electropherogram Summary Continued ...



Overall Results for sample 7 : JLTT0007

Number of peaks found: 19 Corr. Area 1: 1,333.4
 Noise: 0.3

Peak table for sample 7 : JLTT0007

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	135	20.68	232.6		54.20
3	241	334.85	2,107.5		64.09
4	259	74.22	434.2		65.77
5	269	65.53	368.9		66.71
6	291	45.24	235.6		68.71
7	299	43.06	218.1		69.46
8	305	101.12	501.7		69.97
9	327	51.47	238.6		71.70
10	340	32.26	143.7		72.77
11	354	63.58	271.9		73.89
12	372	48.11	195.8		75.34
13	390	29.68	115.4		76.74
14	400	25.59	96.9		77.58
15	414	40.61	148.5		78.37
16	452	22.68	76.0		80.52
17	501	16.98	51.4		83.27
18	513	23.00	68.0		83.83
19	602	7.47	18.8		87.99
20	639	9.38	22.2		89.15
21	10,380	75.00	10.9	Upper Marker	113.00

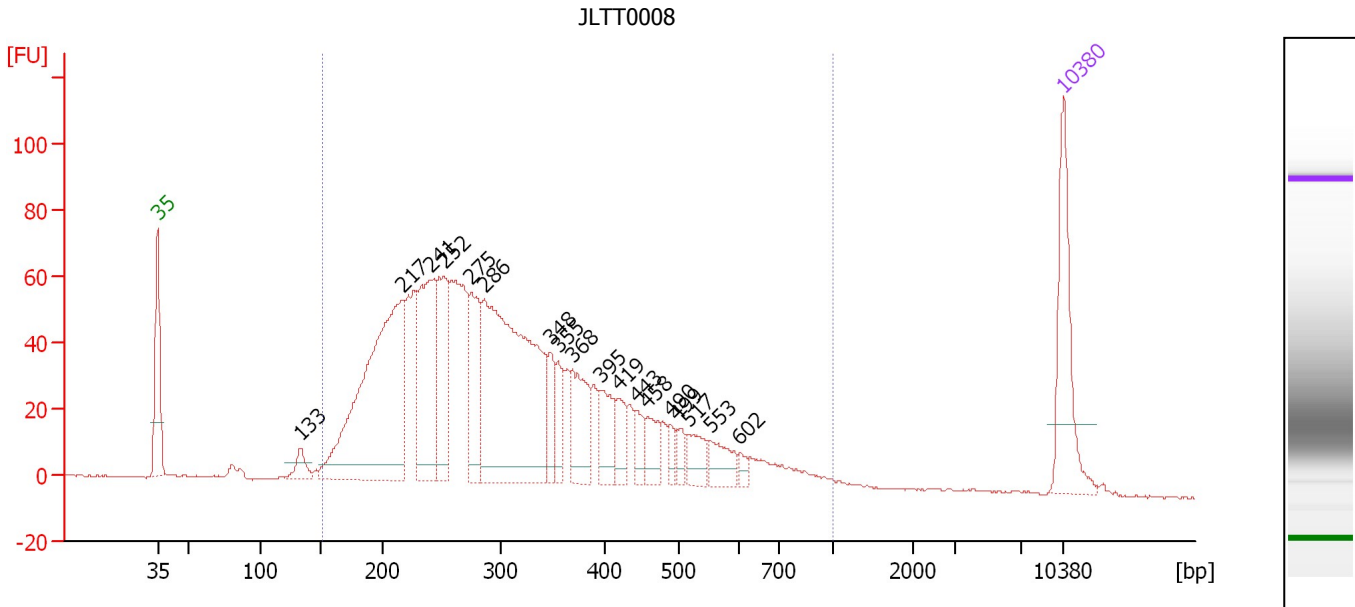
Region table for sample 7 : JLTT0007

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
148	1,000	346	1,333.4	7,812.8	1,507.77	95	38.3

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Electropherogram Summary Continued ...



Overall Results for sample 8 : JLTT0008

Number of peaks found: 18 Corr. Area 1: 1,745.9
 Noise: 0.2

Peak table for sample 8 : JLTT0008

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	133	21.68	247.0		54.04
3	217	379.02	2,645.9		61.92
4	241	152.77	959.9		64.13
5	252	101.74	611.9		65.12
6	275	87.50	482.1		67.25
7	286	383.37	2,032.6		68.24
8	348	32.63	142.2		73.38
9	355	29.95	127.9		73.94
10	368	65.99	271.4		75.03
11	395	43.46	166.5		77.20
12	419	27.56	99.8		78.61
13	443	21.80	74.5		80.03
14	458	27.41	90.6		80.88
15	490	12.46	38.5		82.67
16	499	13.37	40.6		83.19
17	517	26.56	77.8		84.04
18	553	28.30	77.5		85.74
19	602	7.85	19.7		88.00
20	10,380	75.00	10.9	Upper Marker	113.00

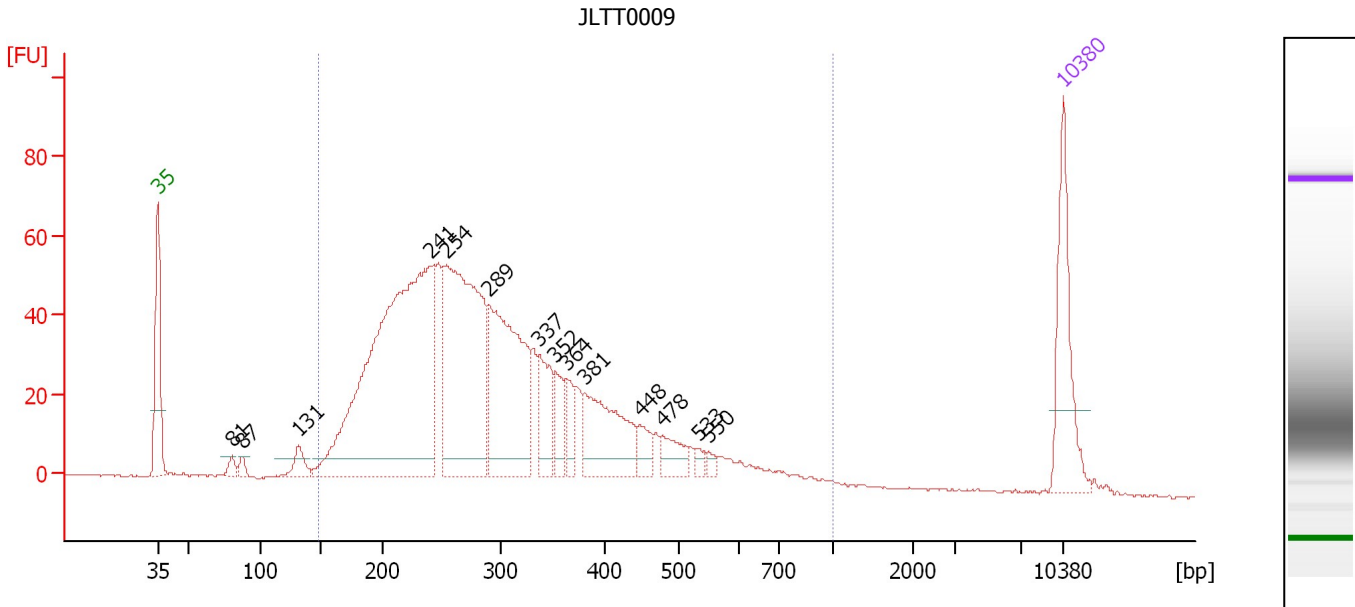
Region table for sample 8 : JLTT0008

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
152	1,000	328	1,745.9	10,253.6	1,867.43	95	39.9

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Electropherogram Summary Continued ...



Overall Results for sample 9 : JLTT0009

Number of peaks found: 14 Corr. Area 1: 1,393.5
 Noise: 0.3

Peak table for sample 9 : JLTT0009

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	81	10.65	200.3		48.77
3	87	9.27	160.8		49.52
4	131	24.47	282.6		53.87
5	241	618.55	3,887.1		64.13
6	254	347.92	2,075.8		65.31
7	289	237.89	1,245.4		68.57
8	337	57.57	259.0		72.49
9	352	33.53	144.3		73.72
10	364	25.32	105.4		74.67
11	381	107.69	428.3		76.04
12	448	19.65	66.5		80.29
13	478	26.94	85.3		81.99
14	533	6.43	18.3		84.78
15	550	5.61	15.5		85.59
16	10,380	75.00	10.9	Upper Marker	113.00

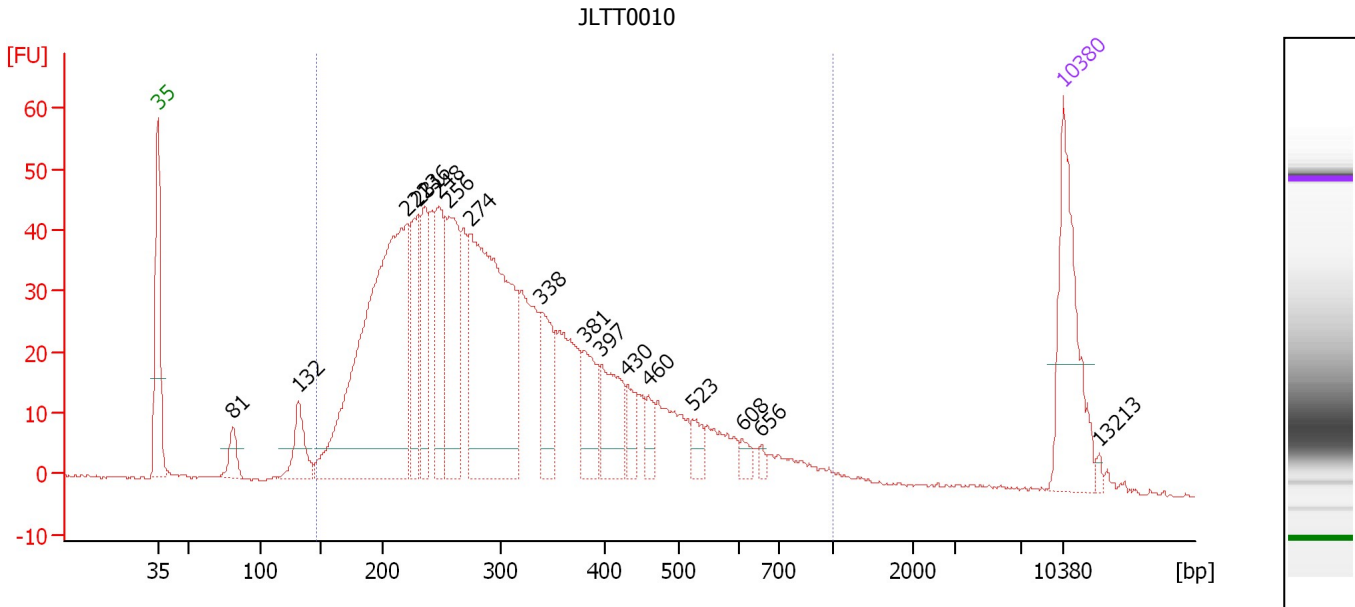
Region table for sample 9 : JLTT0009

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
148	1,000	312	1,393.5	10,079.1	1,783.09	96	38.4

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Electropherogram Summary Continued ...



Overall Results for sample 10 : JLTT0010

Number of peaks found: 17 Corr. Area 1: 1,235.6
 Noise: 0.2

Peak table for sample 10 : JLTT0010

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	81	20.76	387.4		48.83
3	132	40.61	467.5		53.91
4	221	402.39	2,755.6		62.30
5	231	76.21	500.9		63.16
6	236	62.96	404.7		63.63
7	248	84.47	515.9		64.77
8	256	110.61	655.2		65.48
9	274	290.44	1,603.9		67.19
10	338	55.81	250.2		72.59
11	381	44.95	179.0		76.01
12	397	51.11	195.3		77.29
13	430	19.29	67.9		79.28
14	460	13.04	43.0		80.94
15	523	12.79	37.1		84.31
16	608	7.84	19.5		88.20
17	656	4.03	9.3		89.67
18	10,380	75.00	10.9	Upper Marker	113.00
19	13,213	0.00	0.0		115.70

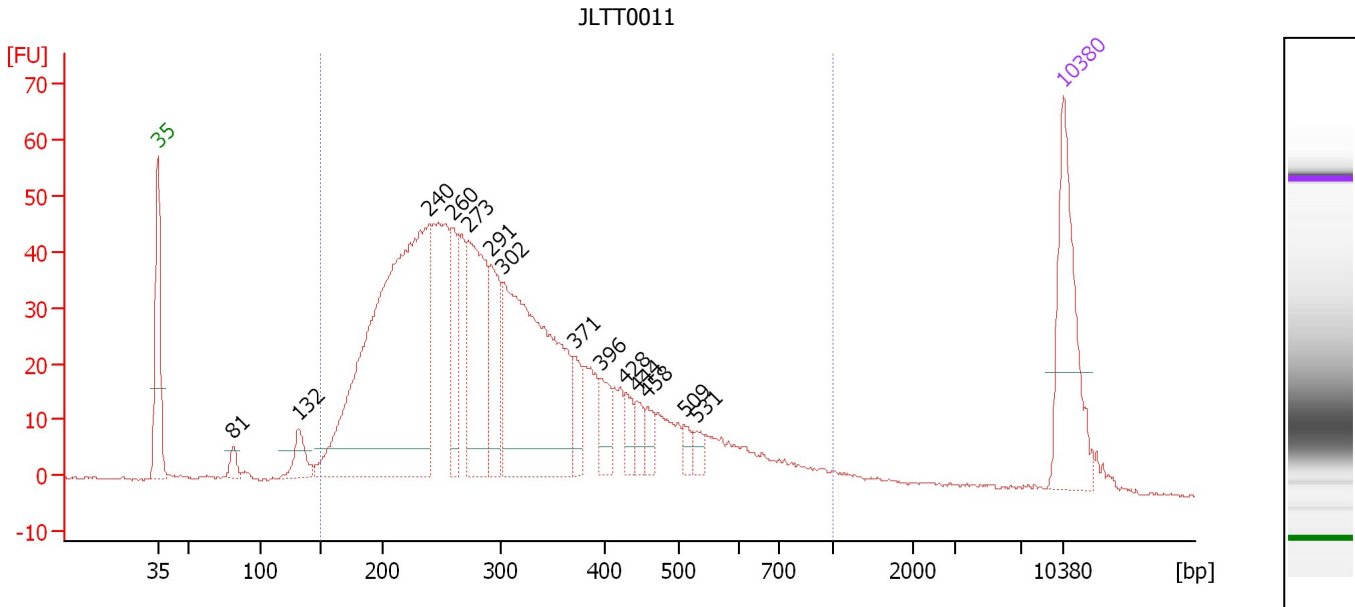
Region table for sample 10 : JLTT0010

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
146	1,000	324	1,235.6	9,483.3	1,697.25	95	40.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-10\2017-10-10_002.xad

Created: 10/10/2017 4:42:57 PM
 Modified: 10/10/2017 5:24:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : JLTT0011

Number of peaks found: 14 Corr. Area 1: 1,246.1
 Noise: 0.3

Peak table for sample 11 : JLTT0011

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	81	11.88	221.6		48.84
3	132	26.25	302.2		53.91
4	240	497.79	3,145.7		64.00
5	260	54.99	321.0		65.82
6	273	130.69	725.1		67.07
7	291	61.69	320.9		68.74
8	302	269.94	1,354.6		69.70
9	371	22.84	93.4		75.20
10	396	23.20	88.7		77.26
11	428	14.17	50.1		79.17
12	444	13.72	46.9		80.03
13	458	11.63	38.5		80.85
14	509	9.61	28.6		83.67
15	531	8.34	23.8		84.67
16	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : JLTT0011

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
149	1,000	323	1,246.1	8,875.5	1,592.95	93	40.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-10\2017-10-10_002.xad

Created: 10/10/2017 4:42:57 PM
Modified: 10/10/2017 5:24:31 PM

Gel Image