

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
Modified: 8/10/2016 12:05:18 PM

Electrophoresis File Run Summary

Instrument Information:

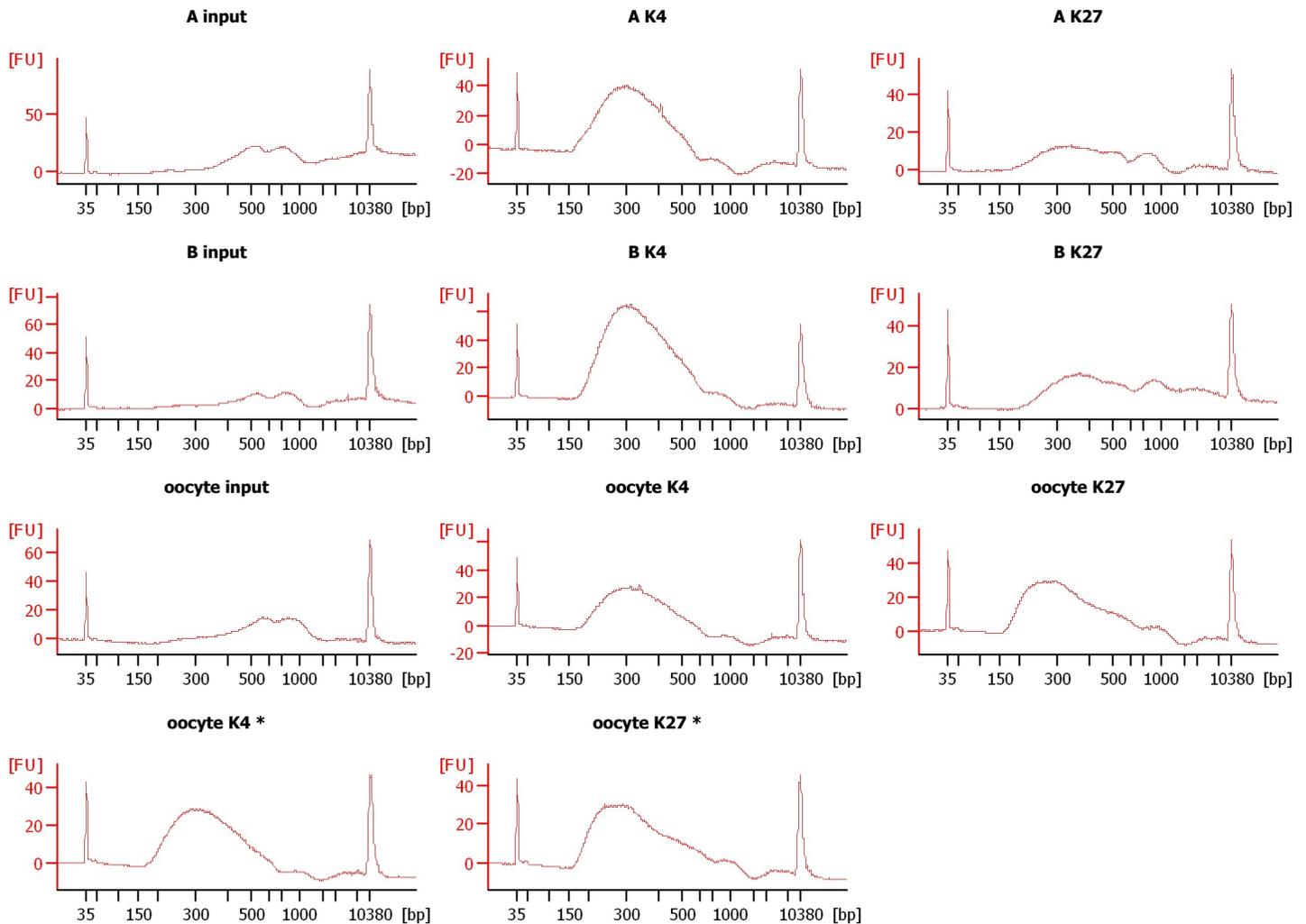
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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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Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A input		<input type="checkbox"/>				
A K4		<input type="checkbox"/>		✓		
A K27		<input type="checkbox"/>		✓		
B input		<input type="checkbox"/>		✓		
B K4		<input type="checkbox"/>		✓		
B K27		<input type="checkbox"/>		✓		
oocyte input		<input type="checkbox"/>		✓		
oocyte K4		<input type="checkbox"/>		✓		
oocyte K27		<input type="checkbox"/>		✓		
oocyte K4 *		<input type="checkbox"/>		✓		
oocyte K27 *		<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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Created: 8/10/2016 11:15:03 AM
Modified: 8/10/2016 12:05:18 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] : 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

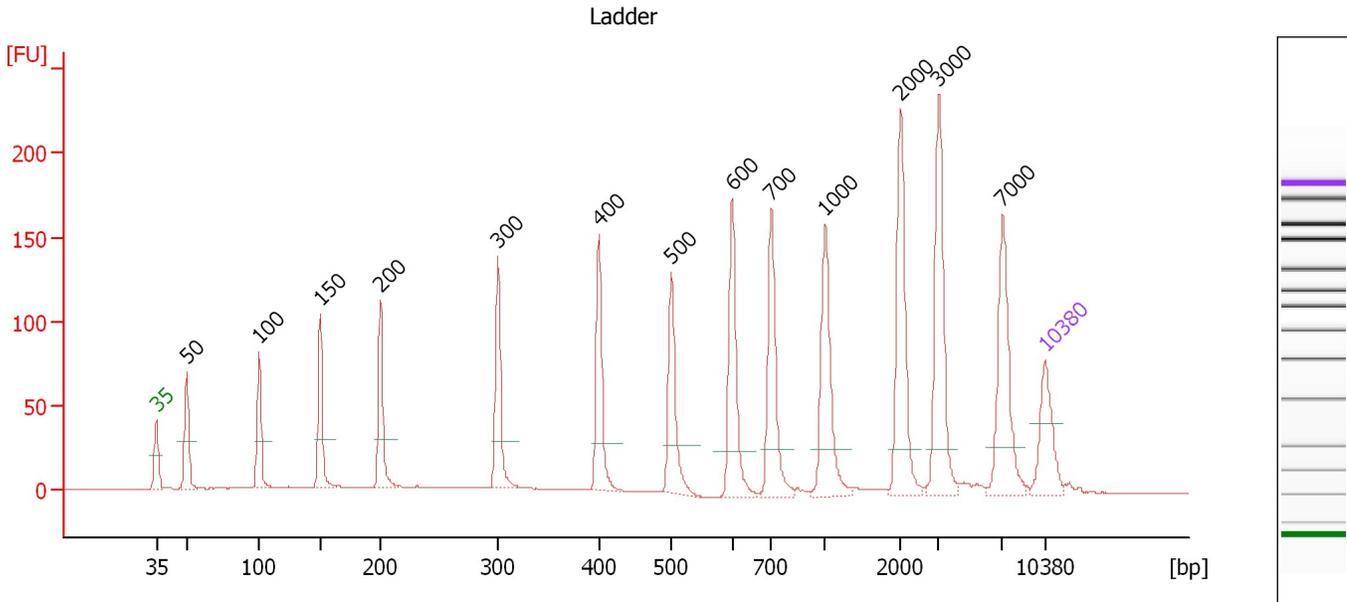
Ladder

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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Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

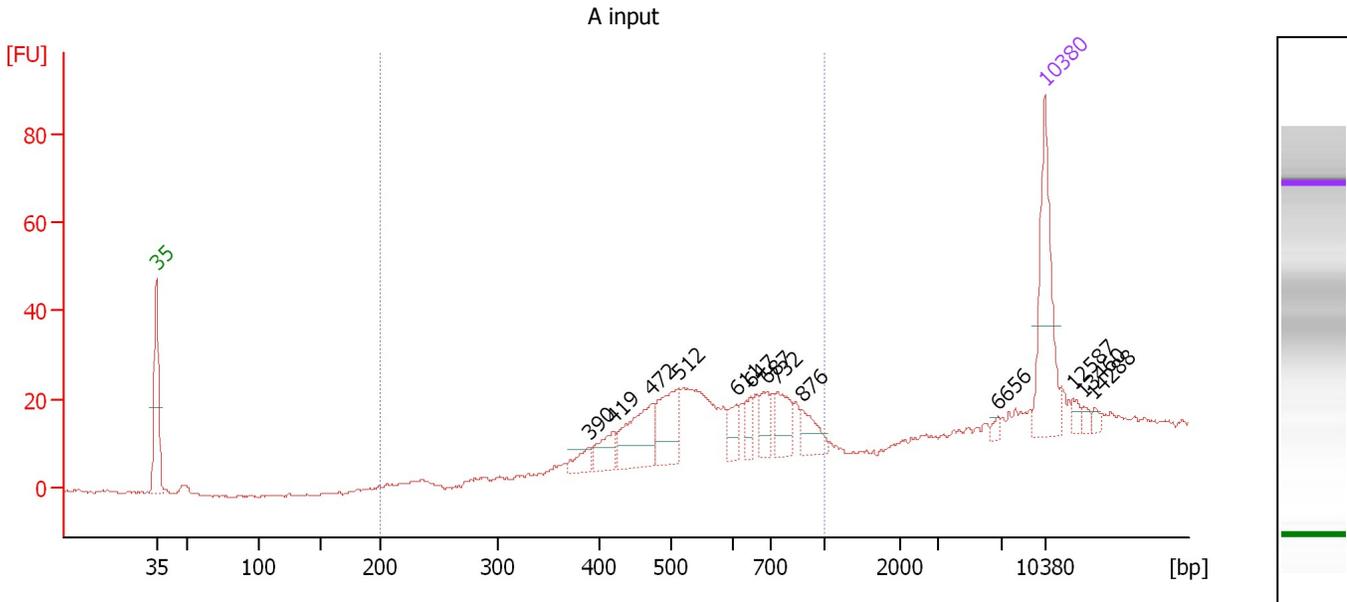
Peak table for Ladder

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	50	150.00	4,545.5	Ladder Peak	45.40
3	100	150.00	2,272.7	Ladder Peak	51.09
4	150	150.00	1,515.2	Ladder Peak	55.93
5	200	150.00	1,136.4	Ladder Peak	60.68
6	300	150.00	757.6	Ladder Peak	69.91
7	400	150.00	568.2	Ladder Peak	77.86
8	500	150.00	454.5	Ladder Peak	83.56
9	600	150.00	378.8	Ladder Peak	88.36
10	700	150.00	324.7	Ladder Peak	91.43
11	1,000	150.00	227.3	Ladder Peak	95.68
12	2,000	150.00	113.6	Ladder Peak	101.60
13	3,000	150.00	75.8	Ladder Peak	104.63
14	7,000	150.00	32.5	Ladder Peak	109.65
15	10,380	75.00	10.9	Upper Marker	113.00

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Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : A input

Number of peaks found: 13 Corr. Area 1: 220.8
 Noise: 0.2

Peak table for sample 1 : A input

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	390	14.04	54.5		77.09
3	419	24.66	89.1		78.96
4	472	62.97	202.2		81.96
5	512	53.78	159.1		84.14
6	611	15.44	38.3		88.70
7	647	13.31	31.2		89.79
8	687	18.79	41.5		91.02
9	732	28.69	59.4		91.88
10	876	21.52	37.2		93.93
11	6,656	3.28	0.7		109.22
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,587	0.00	0.0		115.18
14	13,460	0.00	0.0		116.05
15	14,288	0.00	0.0		116.87

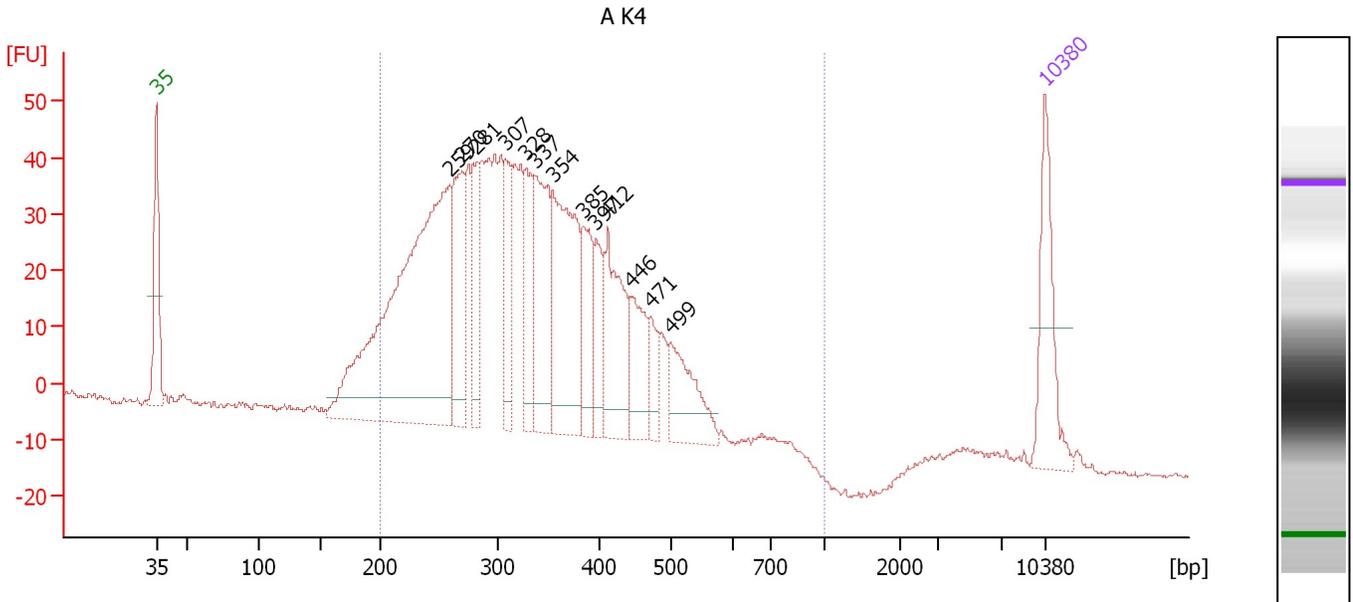
Region table for sample 1 : A input

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	596	220.8	837.9	309.35	78	23.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : A K4

Number of peaks found: 13 Corr. Area 1: 1,185.1
 Noise: 0.3

Peak table for sample 2 : A K4

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	259	620.28	3,624.2		66.15
3	270	133.87	752.4		67.10
4	281	74.47	401.1		68.18
5	307	70.81	349.3		70.48
6	328	80.09	369.8		72.14
7	337	136.57	614.7		72.82
8	354	212.05	907.2		74.22
9	385	72.62	286.0		76.65
10	397	56.58	215.8		77.64
11	412	115.83	426.1		78.54
12	446	67.64	229.9		80.48
13	471	32.68	105.1		81.92
14	499	80.73	245.2		83.50
15	10,380	75.00	10.9	Upper Marker	113.00

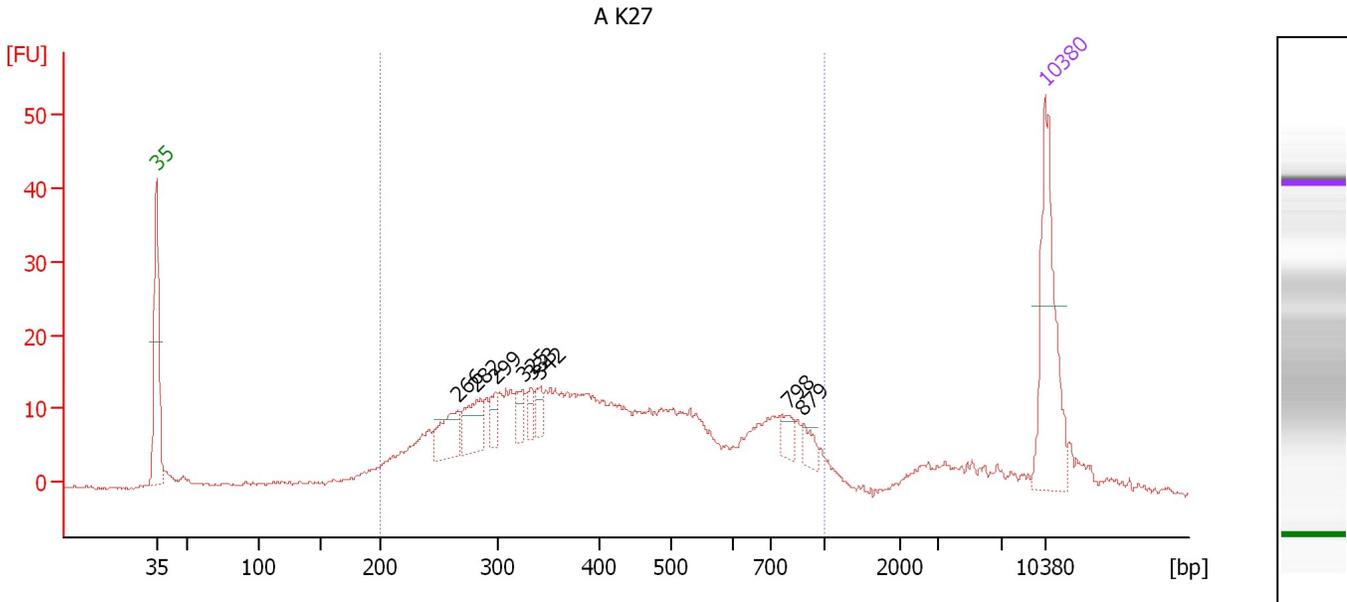
Region table for sample 2 : A K4

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	335	1,185.1	10,017.2	2,042.41	95	25.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : A K27

Number of peaks found: 8 Corr. Area 1: 457.7
 Noise: 0.2

Peak table for sample 3 : A K27

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	266	34.77	198.4		66.73
3	282	34.01	182.8		68.23
4	299	12.95	65.7		69.78
5	325	12.53	58.5		71.87
6	333	10.45	47.6		72.51
7	342	12.26	54.3		73.24
8	798	10.96	20.8		92.82
9	879	9.88	17.0		93.96
10	10,380	75.00	10.9	Upper Marker	113.00

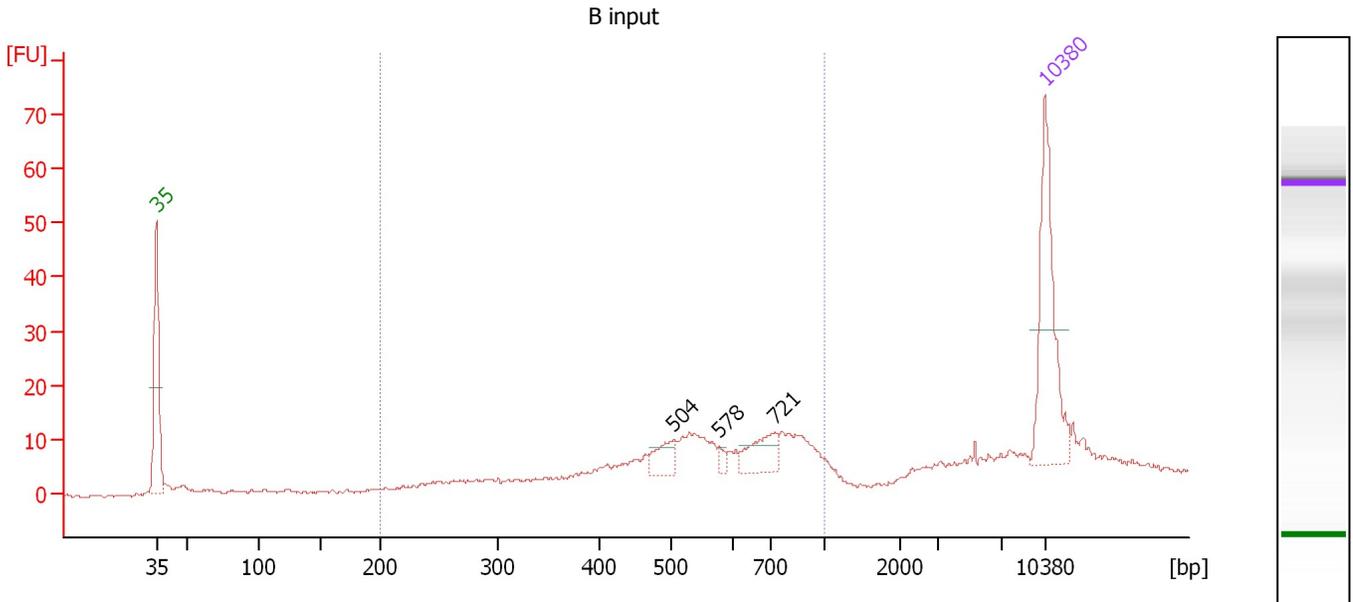
Region table for sample 3 : A K27

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	445	457.7	3,405.1	819.36	86	40.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : B input

Number of peaks found: 3 Corr. Area 1: 166.0
 Noise: 0.2

Peak table for sample 4 : B input

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	504	19.07	57.3		83.75
3	578	4.33	11.4		87.32
4	721	26.47	55.7		91.72
5	10,380	75.00	10.9	Upper Marker	113.00

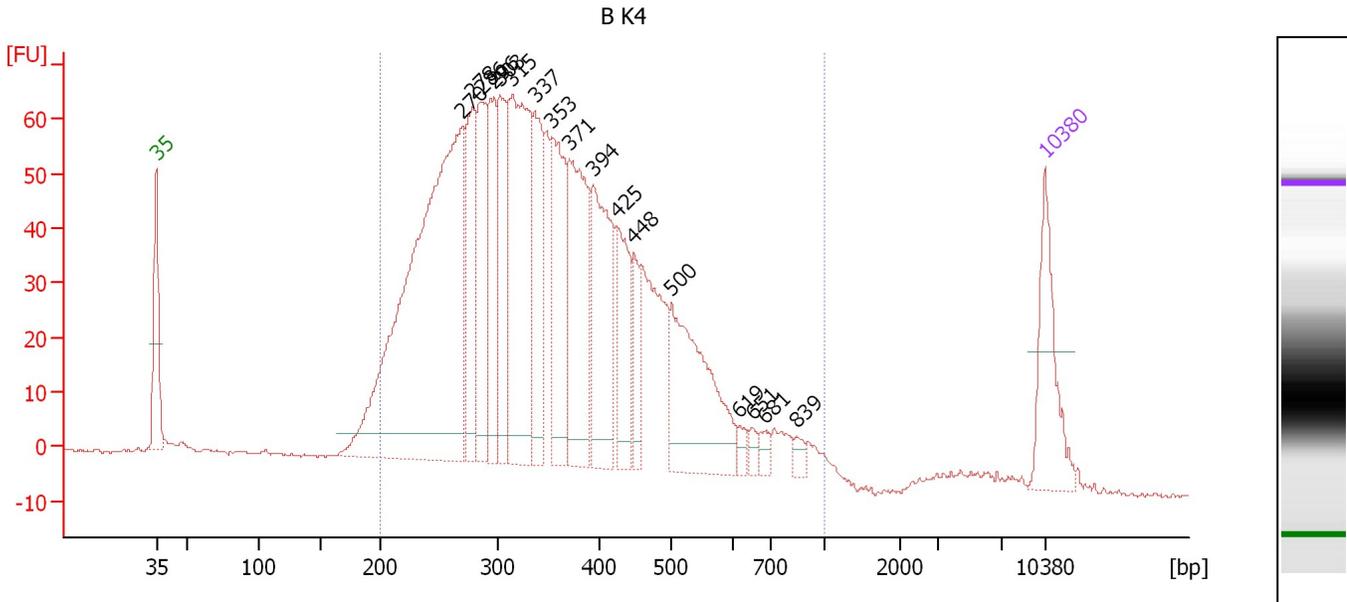
Region table for sample 4 : B input

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	584	166.0	683.6	226.99	71	30.0

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : B K4

Number of peaks found: 17 Corr. Area 1: 1,801.5
 Noise: 0.4

Peak table for sample 5 : B K4

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	270	758.28	4,258.9		67.12
3	278	143.94	783.3		67.92
4	286	138.47	734.7		68.57
5	296	121.31	620.4		69.56
6	303	127.78	639.5		70.13
7	315	280.74	1,352.2		71.07
8	337	131.22	589.9		72.85
9	353	156.97	673.8		74.12
10	371	191.70	783.5		75.53
11	394	170.51	656.2		77.37
12	425	88.93	317.0		79.29
13	448	43.24	146.2		80.61
14	500	191.23	579.3		83.57
15	619	9.88	24.2		88.93
16	651	9.62	22.4		89.92
17	681	11.06	24.6		90.86
18	839	9.92	17.9		93.40
19	10,380	75.00	10.9	Upper Marker	113.00

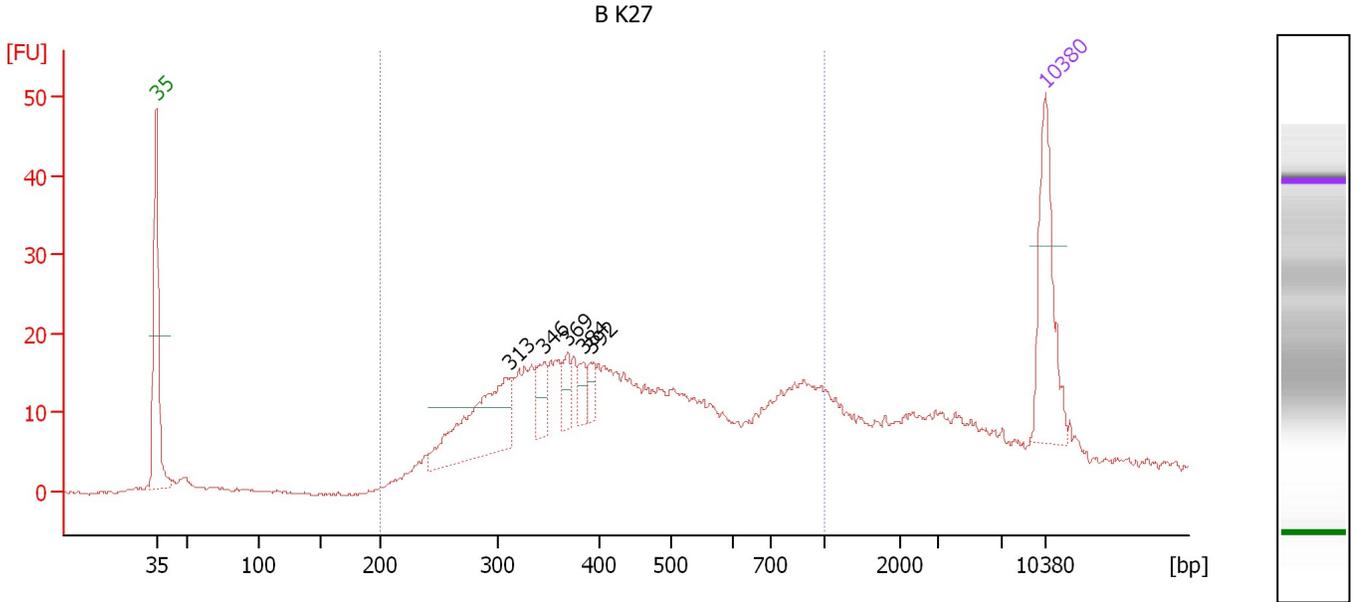
Region table for sample 5 : B K4

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	364	1,801.5	13,548.7	2,884.20	96	33.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : B K27

Number of peaks found: 5 Corr. Area 1: 466.6
 Noise: 0.2

Peak table for sample 6 : B K27

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	313	125.20	606.9		70.90
3	346	26.62	116.6		73.57
4	369	18.52	76.1		75.38
5	384	15.36	60.5		76.62
6	392	12.44	48.1		77.19
7	10,380	75.00	10.9	Upper Marker	113.00

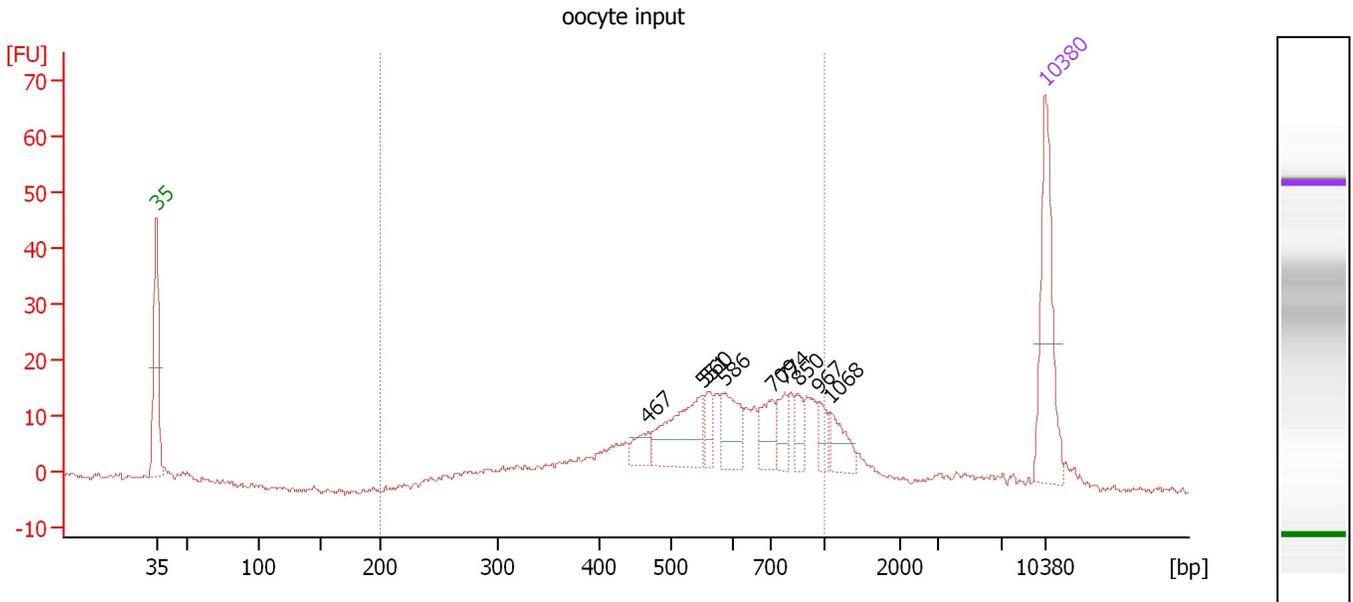
Region table for sample 6 : B K27

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	472	466.6	3,832.1	992.94	77	39.4

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : oocyte input

Number of peaks found: 9 Corr. Area 1: 308.4
 Noise: 0.6

Peak table for sample 7 : oocyte input

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	467	17.16	55.6		81.70
3	551	68.97	189.7		85.99
4	560	17.23	46.6		86.43
5	586	36.09	93.3		87.70
6	709	28.06	60.0		91.55
7	774	19.56	38.3		92.48
8	850	14.15	25.2		93.55
9	967	12.39	19.4		95.21
10	1,068	22.42	31.8		96.08
11	10,380	75.00	10.9	Upper Marker	113.00

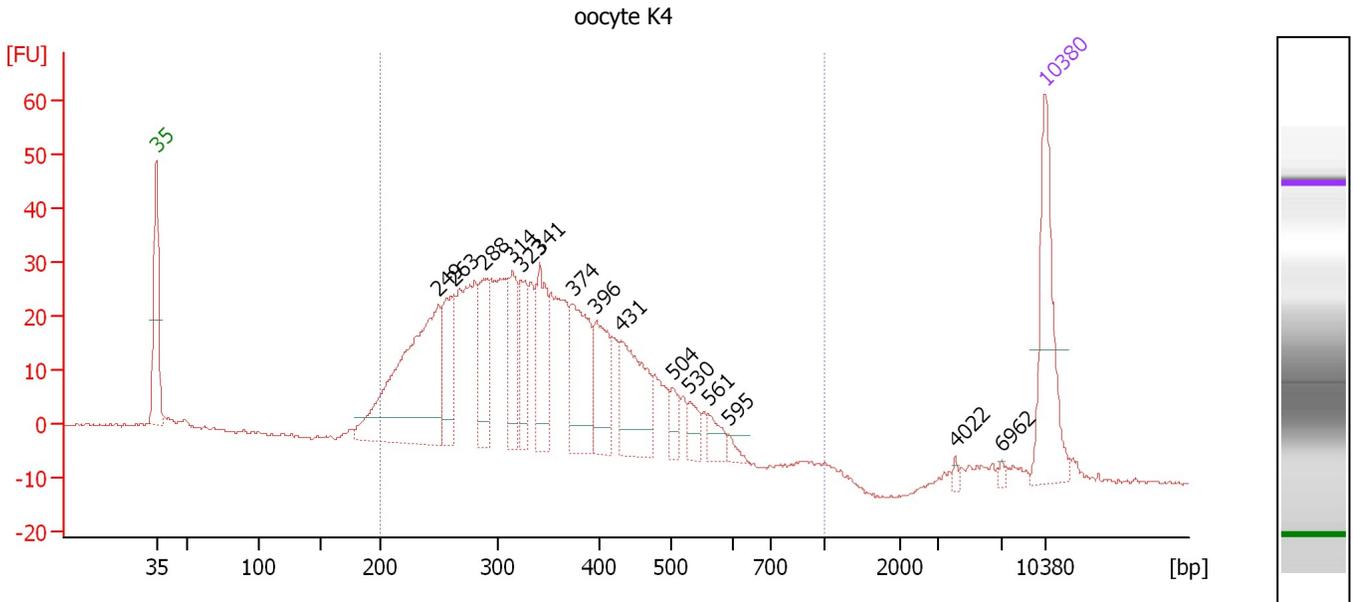
Region table for sample 7 : oocyte input

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	601	308.4	1,381.0	480.52	79	29.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : oocyte K4

Number of peaks found: 15 Corr. Area 1: 795.4
 Noise: 0.2

Peak table for sample 8 : oocyte K4

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	241.84	1,469.4		65.23
3	263	67.68	390.3		66.46
4	288	65.80	346.5		68.78
5	314	53.63	258.6		71.04
6	323	41.57	195.1		71.73
7	341	64.43	285.9		73.20
8	374	88.04	356.5		75.81
9	396	57.21	218.6		77.58
10	431	80.53	282.9		79.65
11	504	15.98	48.1		83.73
12	530	15.30	43.7		85.01
13	561	15.37	41.5		86.49
14	595	6.40	16.3		88.11
15	4,022	2.92	1.1		105.92
16	6,962	2.92	0.6		109.61
17	10,380	75.00	10.9	Upper Marker	113.00

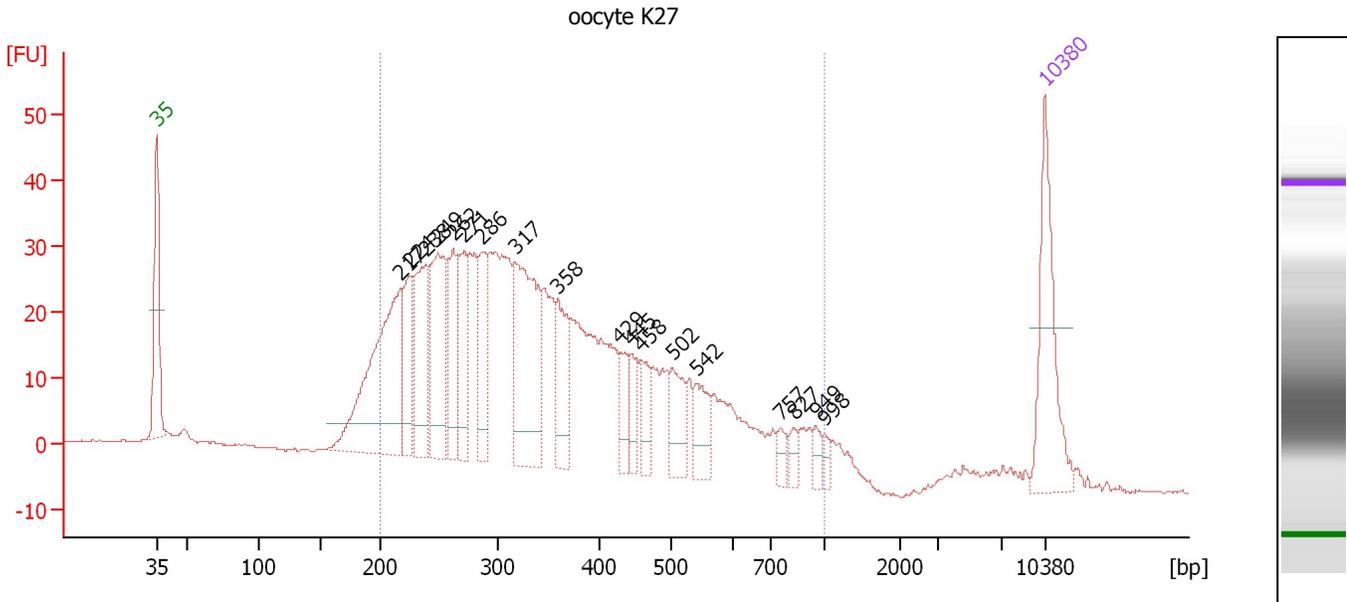
Region table for sample 8 : oocyte K4

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	344	795.4	5,714.5	1,187.23	94	25.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : oocyte K27

Number of peaks found: 18 Corr. Area 1: 915.8
 Noise: 0.2

Peak table for sample 9 : oocyte K27

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	217	220.92	1,544.0		62.23
3	224	53.32	360.2		62.92
4	238	97.54	620.3		64.21
5	249	114.17	694.8		65.20
6	262	56.66	327.9		66.38
7	271	64.30	358.9		67.27
8	286	62.72	331.8		68.66
9	317	159.60	763.8		71.23
10	358	61.57	260.4		74.54
11	429	25.34	89.4		79.53
12	445	22.83	77.7		80.42
13	458	26.51	87.7		81.16
14	502	37.95	114.7		83.64
15	542	32.92	92.1		85.56
16	757	10.59	21.2		92.24
17	827	9.14	16.8		93.23
18	949	8.91	14.2		94.96
19	998	7.24	11.0		95.65
20	10,380	75.00	10.9	Upper Marker	113.00

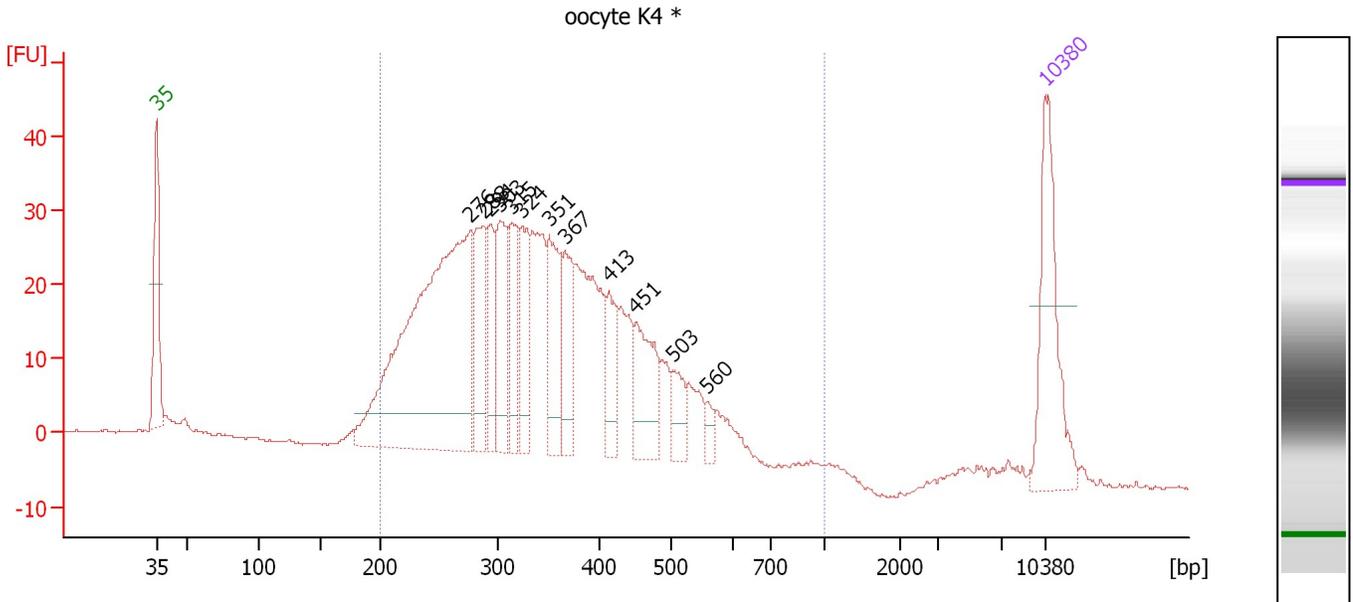
Region table for sample 9 : oocyte K27

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	370	915.8	7,759.0	1,606.45	88	40.1

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : oocyte K4 *

Number of peaks found: 12 Corr. Area 1: 796.8
 Noise: 0.2

Peak table for sample 10 : oocyte K4 *

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	411.07	2,258.0		67.68
3	288	70.24	369.2		68.82
4	294	47.61	245.7		69.32
5	303	65.39	327.4		70.11
6	315	53.13	255.9		71.06
7	324	54.53	255.1		71.81
8	351	71.60	309.3		73.95
9	367	49.31	203.6		75.24
10	413	38.07	139.6		78.62
11	451	61.00	205.0		80.76
12	503	24.40	73.5		83.70
13	560	8.19	22.2		86.43
14	10,380	75.00	10.9	Upper Marker	113.00

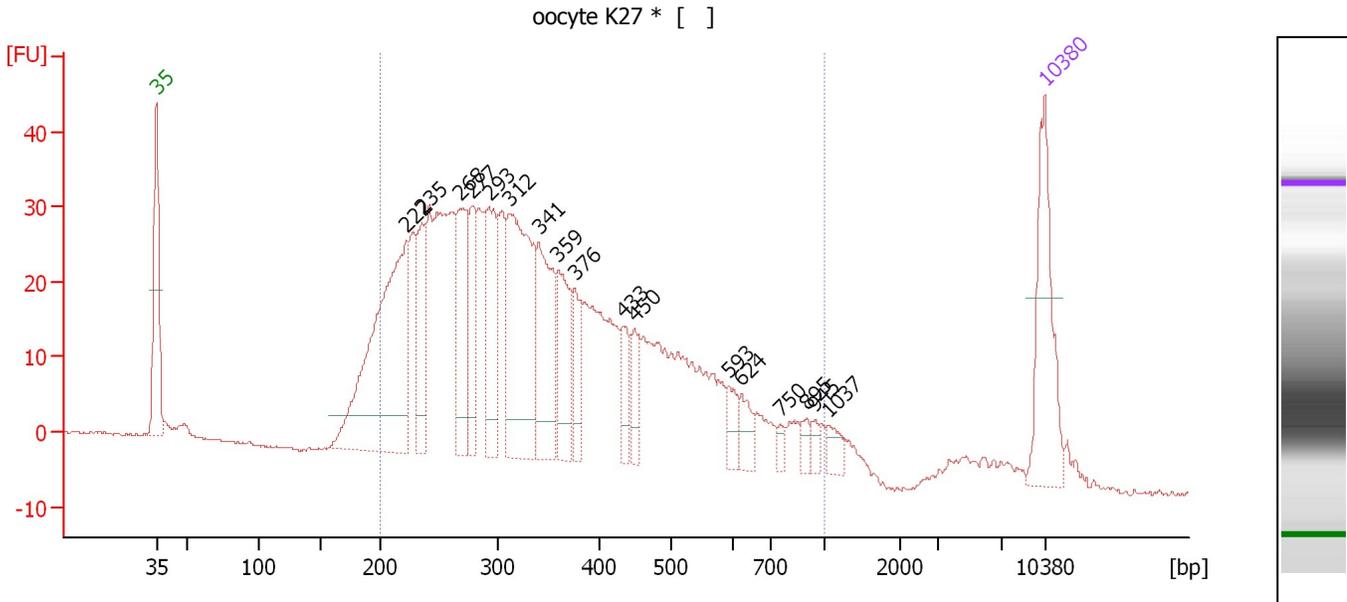
Region table for sample 10 : oocyte K4 *

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	348	796.8	6,232.2	1,302.21	94	27.0

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : oocyte K27 *

Number of peaks found: 17 Corr. Area 1: 934.8
 Noise: 0.2

Peak table for sample 11 : oocyte K27 *

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	222	294.10	2,007.6		62.71
3	235	68.96	444.6		63.91
4	268	83.63	472.5		66.97
5	277	62.93	343.7		67.82
6	293	88.11	455.4		69.28
7	312	186.50	905.0		70.88
8	341	101.09	449.7		73.14
9	359	67.52	284.6		74.64
10	376	38.78	156.3		75.94
11	433	29.18	102.1		79.76
12	450	27.99	94.3		80.71
13	593	18.06	46.1		88.03
14	624	19.08	46.4		89.08
15	750	6.91	14.0		92.14
16	895	8.34	14.1		94.20
17	945	6.97	11.2		94.90
18	1,037	12.75	18.6		95.90
19	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : oocyte K27 *

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	370	934.8	8,618.8	1,785.17	90	39.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
Modified: 8/10/2016 12:05:18 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad

Created: 8/10/2016 11:15:03 AM
 Modified: 8/10/2016 12:05:18 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		8/10/2016 11:56:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-08-10\2016-08-10_002.xad)		Instrument	Run		8/10/2016 11:15:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/10/2016 11:15:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/10/2016 11:15:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/10/2016 11:15:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/10/2016 11:15:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/10/2016 11:15:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/10/2016 11:15:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1