

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-11\2016-05-11_002.xad

Created: 5/11/2016 1:50:07 PM
Modified: 5/11/2016 2:33:31 PM

Electrophoresis File Run Summary

Instrument Information:

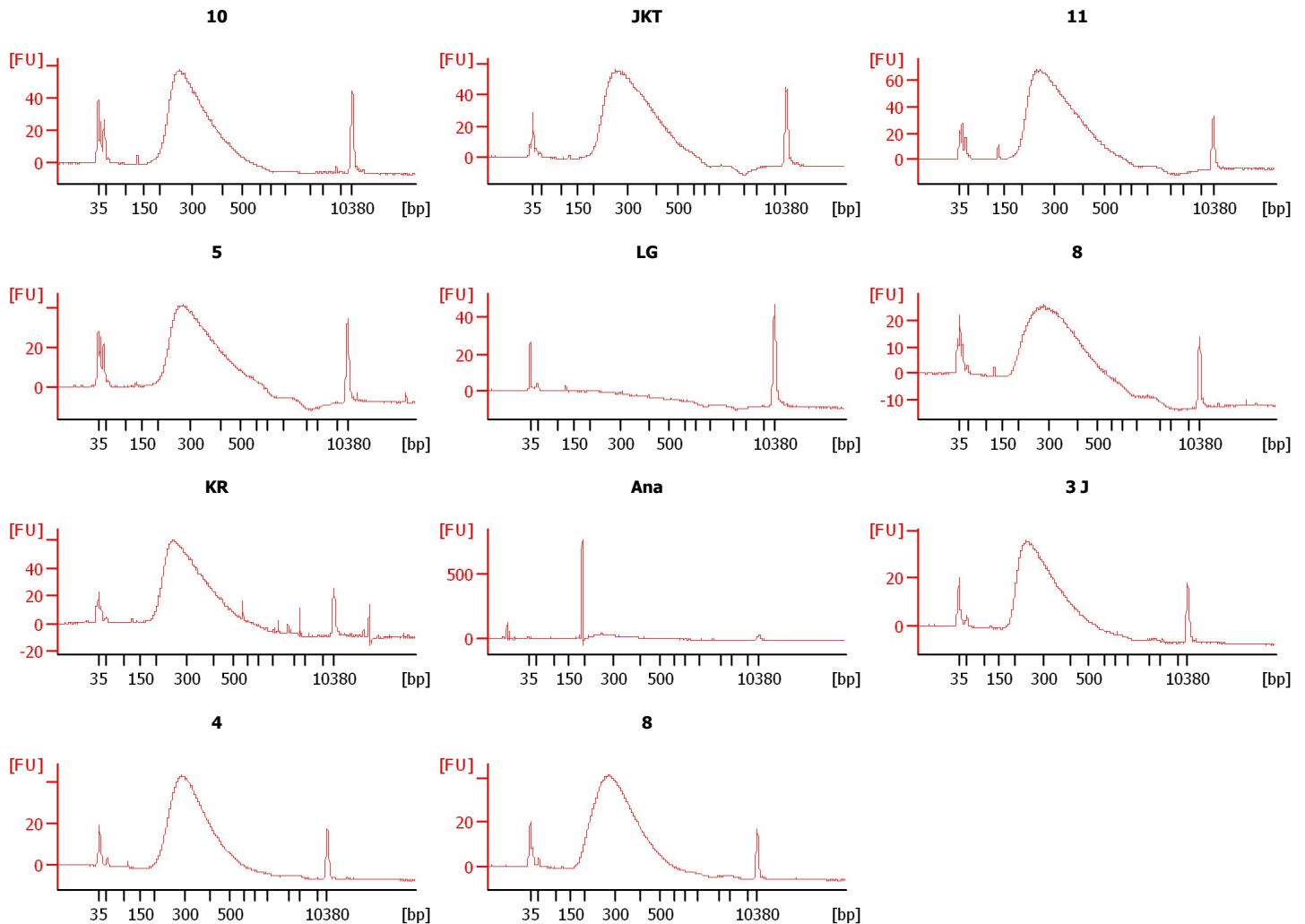
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
10		<input type="checkbox"/>	✓			
JKT		<input type="checkbox"/>	✓			
11		<input type="checkbox"/>	✓			
5		<input type="checkbox"/>	✓			
LG		<input type="checkbox"/>	✓			
8		<input type="checkbox"/>	✓			
KR		<input type="checkbox"/>	✓			
Ana		<input type="checkbox"/>	✓			
3 J		<input type="checkbox"/>	✓			
4		<input type="checkbox"/>	✓			
8		<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

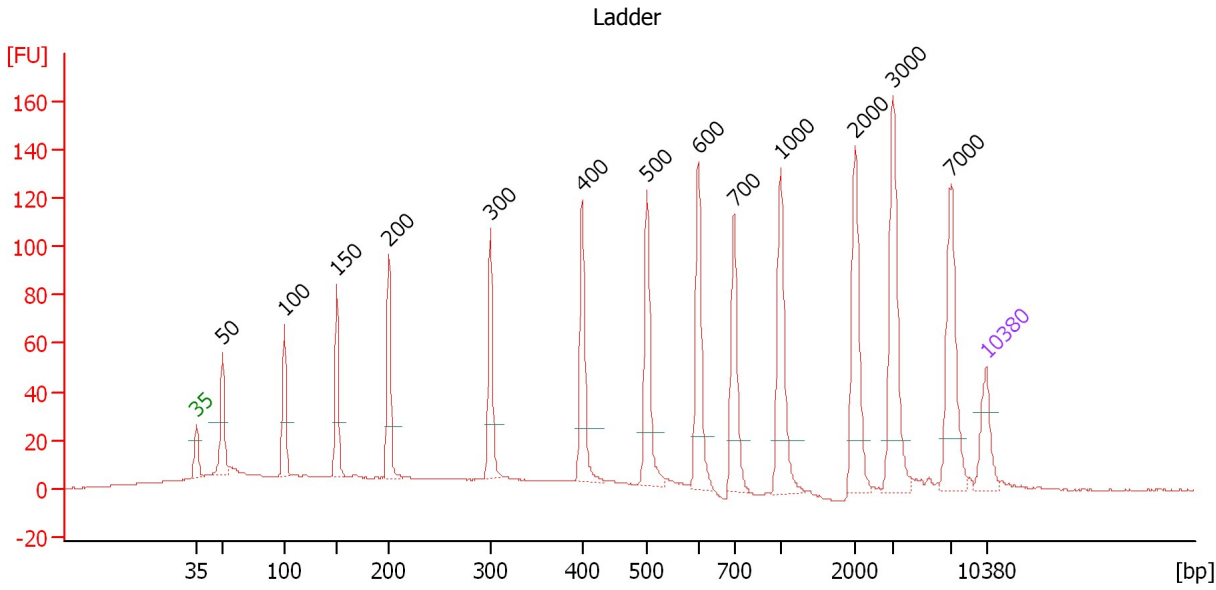
Ladder

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

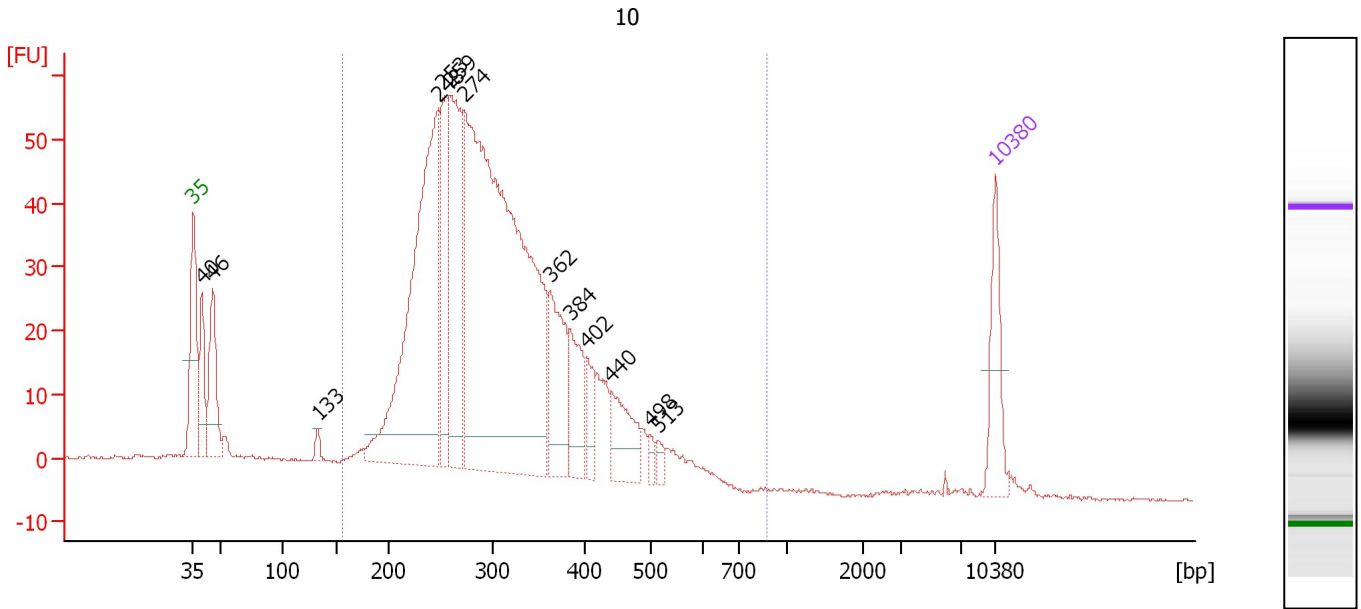
Peak table for Ladder

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	45.32
3	100	150.00	2,272.7	Ladder Peak	50.75
4	150	150.00	1,515.2	Ladder Peak	55.43
5	200	150.00	1,136.4	Ladder Peak	60.02
6	300	150.00	757.6	Ladder Peak	69.04
7	400	150.00	568.2	Ladder Peak	77.17
8	500	150.00	454.5	Ladder Peak	82.94
9	600	150.00	378.8	Ladder Peak	87.48
10	700	150.00	324.7	Ladder Peak	90.64
11	1,000	150.00	227.3	Ladder Peak	94.76
12	2,000	150.00	113.6	Ladder Peak	101.37
13	3,000	150.00	75.8	Ladder Peak	104.73
14	7,000	150.00	32.5	Ladder Peak	109.88
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 10

Number of peaks found: 13 Corr. Area 1: 1,144.1
 Noise: 0.2

Peak table for sample 1 : 10

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	40	109.43	4,164.0		43.74
3	46	162.26	5,362.7		44.67
4	133	15.34	174.8		53.84
5	248	723.29	4,418.9		64.35
6	253	202.11	1,209.7		64.81
7	259	321.97	1,881.1		65.37
8	274	1,385.17	7,666.3		66.67
9	362	156.26	653.3		74.12
10	384	108.71	428.8		75.88
11	402	49.83	187.9		77.28
12	440	98.66	339.9		79.47
13	498	13.71	41.7		82.81
14	513	15.48	45.8		83.51
15	10,380	75.00	10.9	Upper Marker	113.00

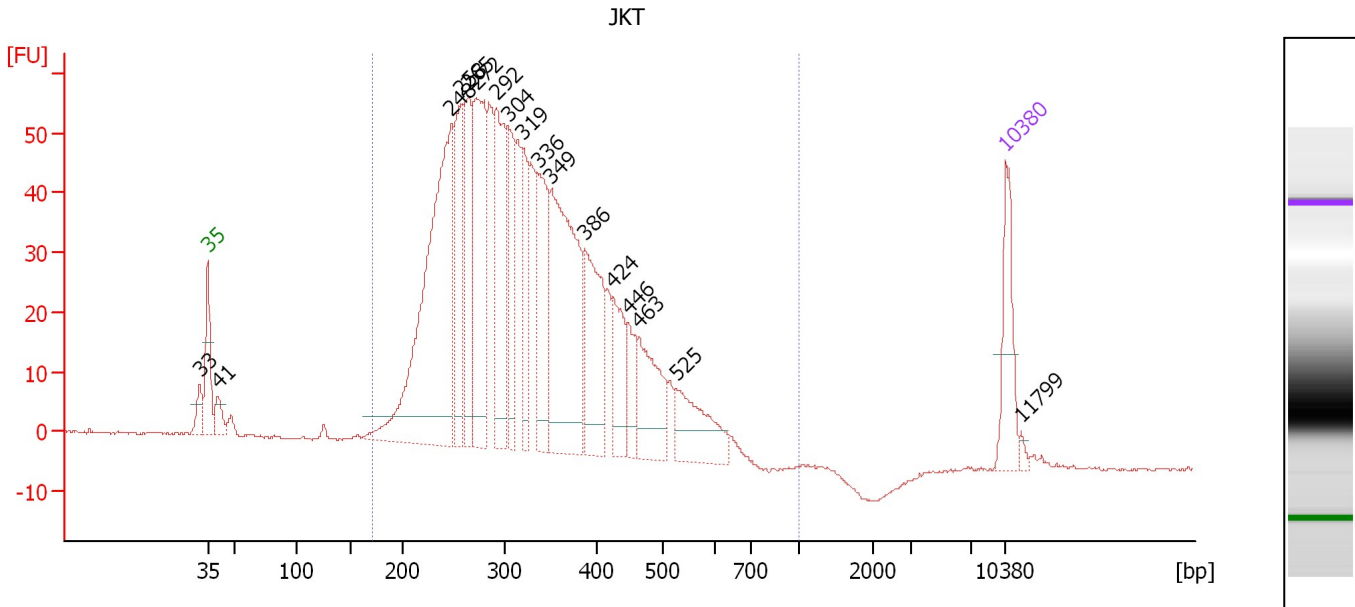
Region table for sample 1 : 10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
157	880	310	1,144.1	17,016.7	3,234.78	90	24.9

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Electropherogram Summary Continued ...



Overall Results for sample 2 : JKT

Number of peaks found: 17 Corr. Area 1: 1,300.0
 Noise: 0.2

Peak table for sample 2 : JKT

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.30
2	35	125.00	5,411.3	Lower Marker	43.00
3	41	37.70	1,401.4		43.89
4	248	654.44	3,994.6		64.37
5	258	165.24	972.1		65.21
6	265	179.20	1,025.4		65.87
7	272	297.11	1,654.7		66.52
8	292	210.05	1,089.0		68.34
9	304	121.02	603.1		69.37
10	319	109.44	519.8		70.59
11	336	162.61	732.7		71.99
12	349	384.74	1,668.0		73.07
13	386	181.43	711.6		76.06
14	424	88.30	315.8		78.54
15	446	54.84	186.2		79.85
16	463	123.53	404.6		80.78
17	525	109.90	317.4		84.06
18	10,380	75.00	10.9	Upper Marker	113.00
19	11,799	0.00	0.0		114.31

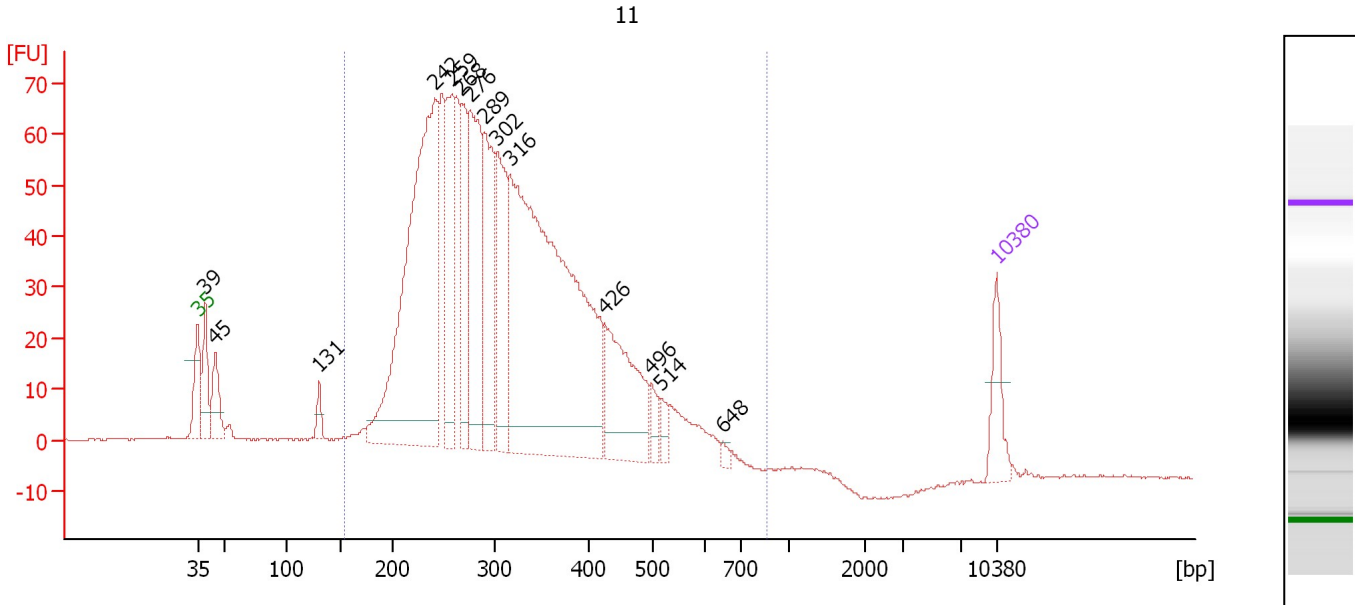
Region table for sample 2 : JKT

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
171	1,000	330	1,300.0	16,669.9	3,334.54	97	26.1

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 11

Number of peaks found: 14 Corr. Area 1: 1,616.8
 Noise: 0.2

Peak table for sample 3 : 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	39	146.53	5,658.7		43.65
3	45	123.25	4,151.6		44.54
4	131	38.87	449.8		53.65
5	242	1,224.65	7,676.8		63.78
6	259	302.33	1,770.1		65.32
7	268	219.61	1,243.6		66.12
8	276	447.87	2,460.0		66.86
9	289	303.06	1,587.3		68.08
10	302	288.23	1,446.5		69.20
11	316	1,596.24	7,647.4		70.36
12	426	316.55	1,125.6		78.68
13	496	40.80	124.7		82.69
14	514	32.39	95.5		83.58
15	648	10.10	23.6		89.00
16	10,380	75.00	10.9	Upper Marker	113.00

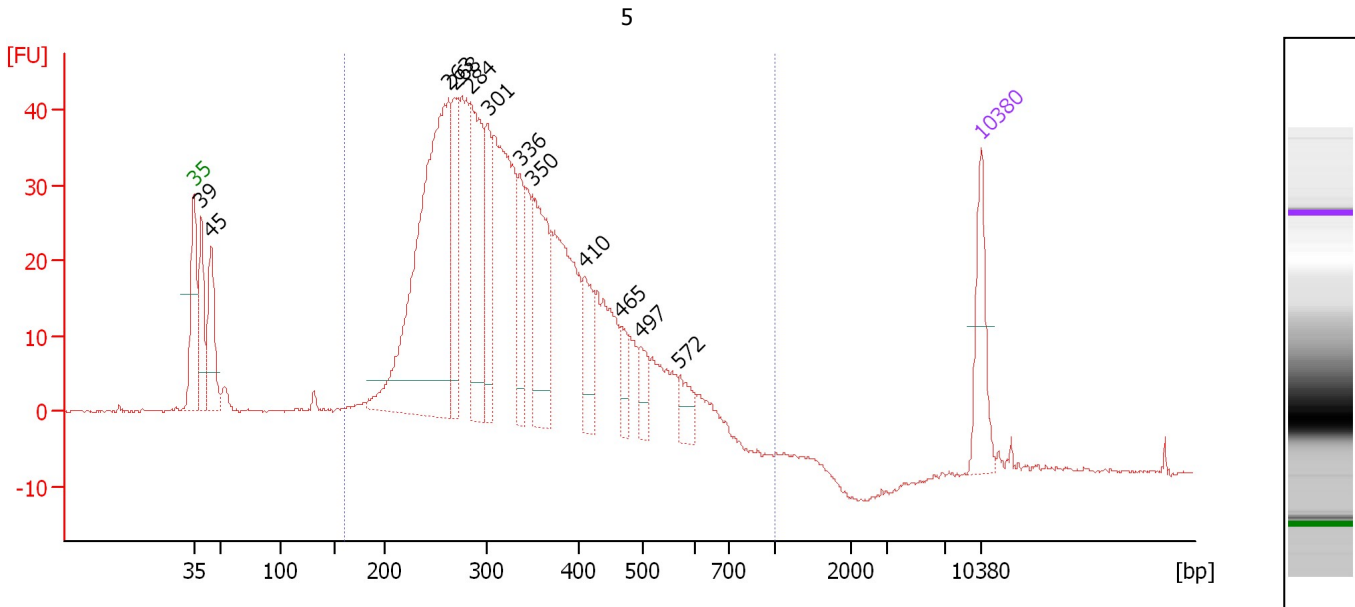
Region table for sample 3 : 11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
154	856	319	1,616.8	28,384.4	5,435.38	92	28.1

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 5

Number of peaks found: 12 Corr. Area 1: 1,020.6
 Noise: 0.2

Peak table for sample 4 : 5

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	39	127.06	4,898.4		43.66
3	45	142.47	4,815.1		44.52
4	263	709.59	4,093.8		65.67
5	268	139.43	787.1		66.19
6	284	246.41	1,313.8		67.61
7	301	109.68	551.9		69.13
8	336	91.25	411.4		71.98
9	350	197.94	856.7		73.12
10	410	77.78	287.3		77.76
11	465	35.04	114.1		80.94
12	497	39.52	120.6		82.74
13	572	35.66	94.5		86.20
14	10,380	75.00	10.9	Upper Marker	113.00

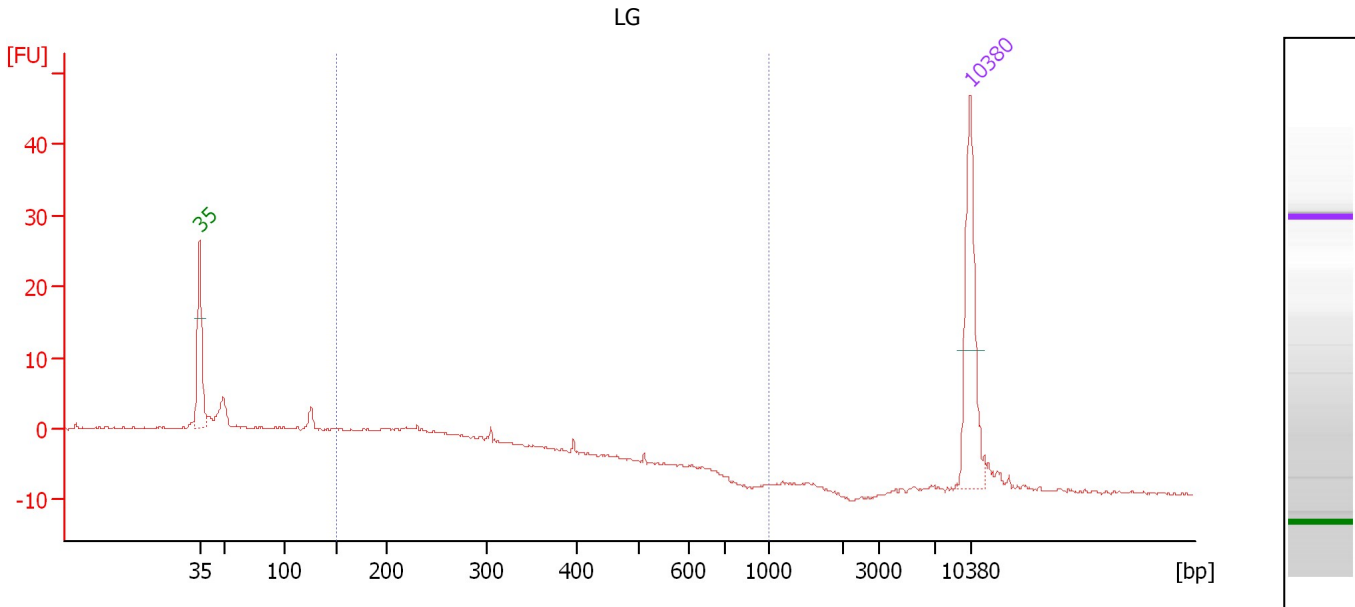
Region table for sample 4 : 5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
160	1,000	342	1,020.6	15,370.8	3,115.16	89	29.3

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Electropherogram Summary Continued ...



Overall Results for sample 5 : LG

Number of peaks found: 0 Corr. Area 1: 70.1
 Noise: 0.2

Peak table for sample 5 : LG

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	10,380	75.00	10.9	Upper Marker	113.00

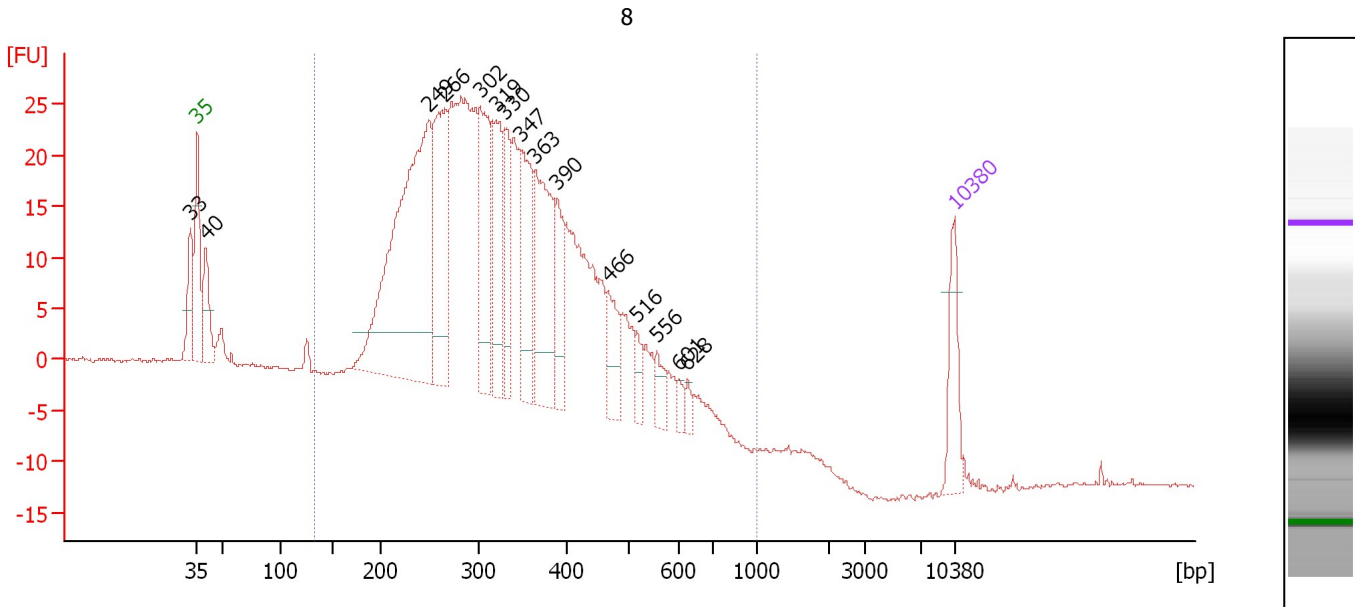
Region table for sample 5 : LG

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
149	1,000	268	70.1	1,138.3	178.83	50	29.6

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 8

Number of peaks found: 15 Corr. Area 1: 789.7
 Noise: 0.2

Peak table for sample 6 : 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.36
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	117.38	4,434.4		43.79
4	249	818.31	4,978.4		64.44
5	266	321.00	1,828.6		65.97
6	302	243.00	1,220.6		69.18
7	319	179.95	854.1		70.61
8	330	126.12	579.9		71.44
9	347	198.02	864.4		72.87
10	363	267.40	1,114.7		74.20
11	390	104.91	408.0		76.32
12	466	83.20	270.2		81.01
13	516	29.05	85.3		83.67
14	556	35.05	95.5		85.49
15	601	16.04	40.4		87.51
16	628	13.98	33.7		88.35
17	10,380	75.00	10.9	Upper Marker	113.00

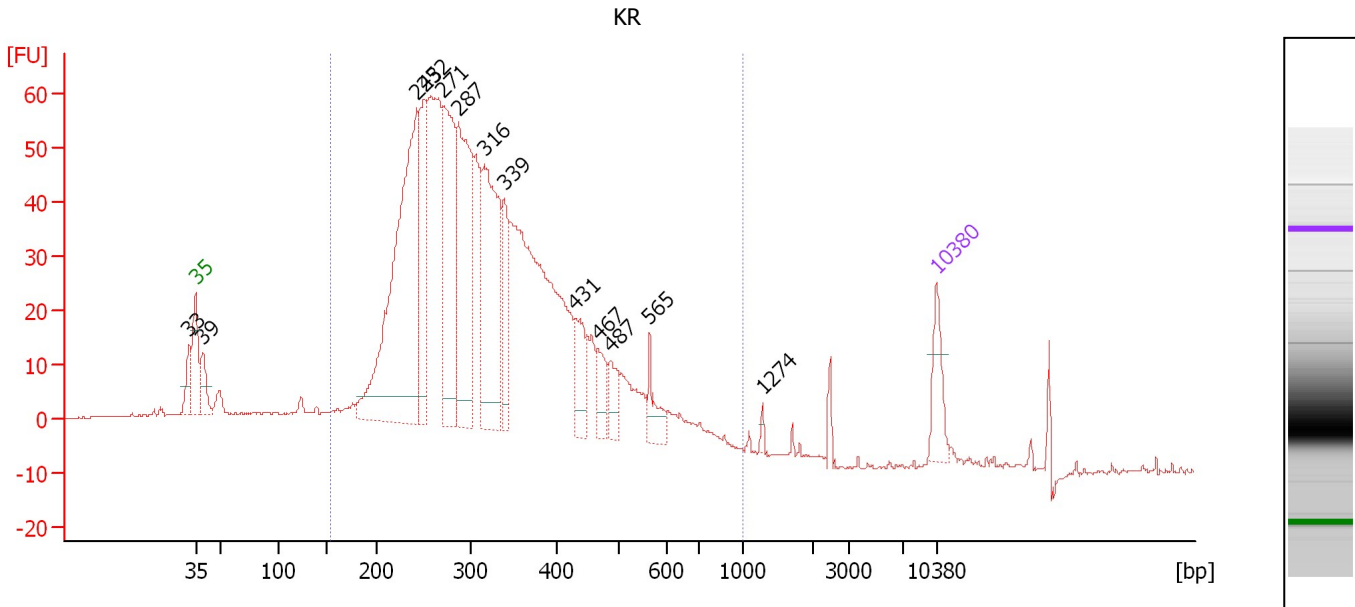
Region table for sample 6 : 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
134	1,000	337	789.7	20,857.8	4,101.51	90	30.5

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Electropherogram Summary Continued ...



Overall Results for sample 7 : KR

Number of peaks found: 13 Corr. Area 1: 1,348.9
 Noise: 0.2

Peak table for sample 7 : KR

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.40
2	35	125.00	5,411.3	Lower Marker	43.00
3	39	85.85	3,314.7		43.66
4	243	1,068.33	6,656.1		63.91
5	252	263.06	1,584.4		64.67
6	271	469.62	2,624.7		66.43
7	287	533.81	2,820.8		67.85
8	316	505.44	2,426.2		70.31
9	339	159.29	712.8		72.18
10	431	112.49	395.9		78.93
11	467	67.28	218.2		81.05
12	487	64.43	200.3		82.21
13	565	65.16	174.8		85.89
14	1,274	8.11	9.6		96.57
15	10,380	75.00	10.9	Upper Marker	113.00

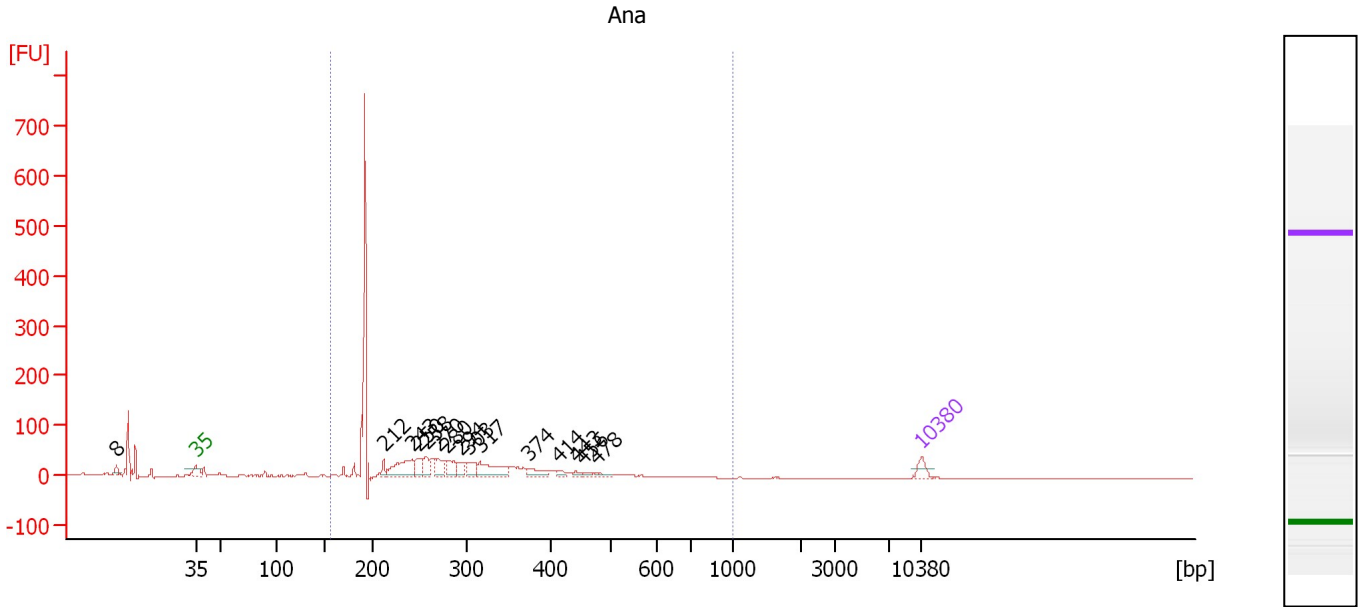
Region table for sample 7 : KR

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
153	1,000	330	1,348.9	29,325.8	5,715.24	90	31.2

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Electropherogram Summary Continued ...



Overall Results for sample 8 : Ana

Number of peaks found: 15 Corr. Area 1: 990.3
 Noise: 0.2

Peak table for sample 8 : Ana

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	8	0.00	0.0		35.35
2	35	125.00	5,411.3	Lower Marker	43.00
3	212	70.44	503.0		61.12
4	243	376.31	2,347.5		63.89
5	250	141.75	858.2		64.55
6	258	138.61	815.1		65.22
7	270	156.52	877.8		66.35
8	280	155.05	837.8		67.27
9	294	104.13	536.6		68.51
10	303	127.85	639.6		69.28
11	317	306.45	1,465.9		70.40
12	374	117.22	475.4		75.02
13	414	40.73	148.9		78.00
14	443	31.99	109.4		79.64
15	456	28.40	94.3		80.41
16	478	38.35	121.7		81.64
17	10,380	75.00	10.9	Upper Marker	113.00

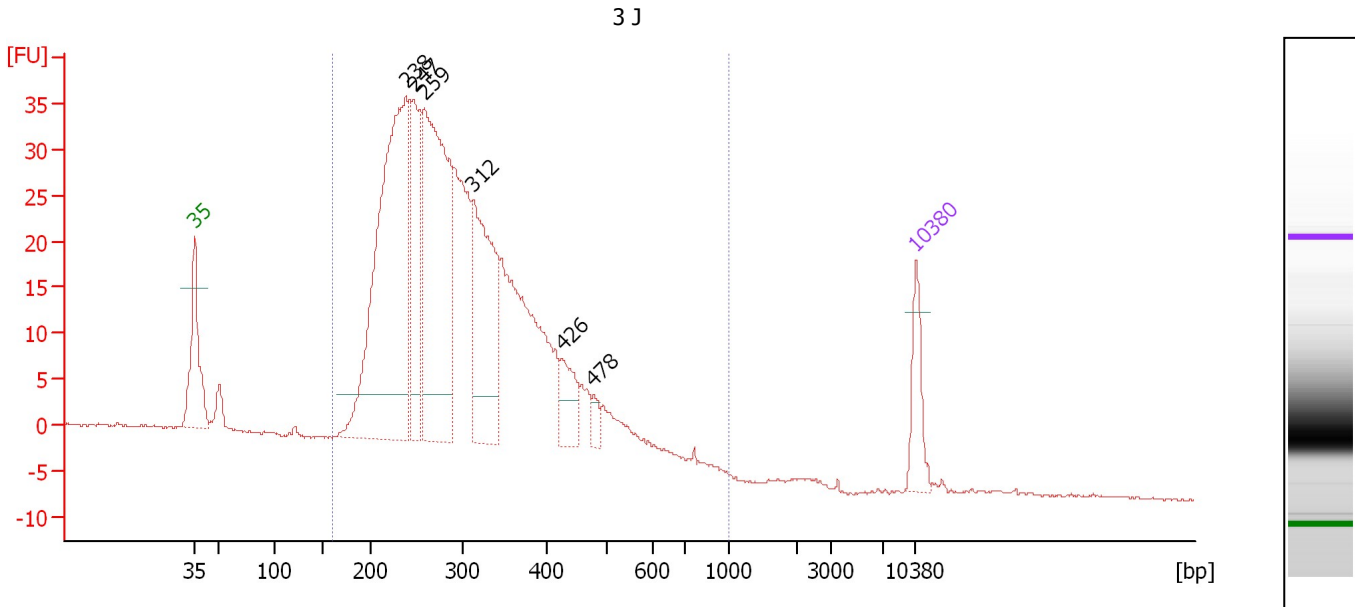
Region table for sample 8 : Ana

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
155	1,000	280	990.3	21,408.1	3,478.79	84	32.7

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 3 J

Number of peaks found: 6 Corr. Area 1: 775.6
 Noise: 0.2

Peak table for sample 9 : 3 J

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	238	1,086.21	6,901.6		63.49
3	247	315.94	1,937.6		64.26
4	259	783.11	4,589.7		65.30
5	312	446.28	2,163.9		70.06
6	426	95.83	341.2		78.65
7	478	24.00	76.0		81.70
8	10,380	75.00	10.9	Upper Marker	113.00

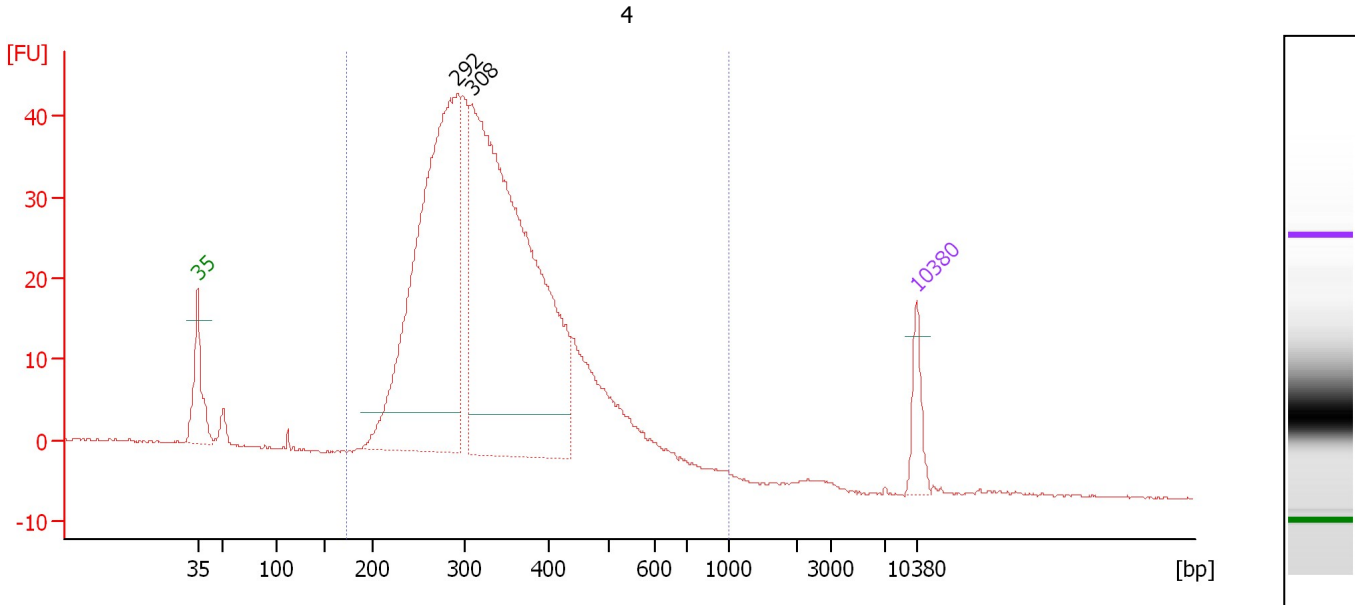
Region table for sample 9 : 3 J

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
160	1,000	309	775.6	22,243.2	4,128.46	96	29.5

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Electropherogram Summary Continued ...



Overall Results for sample 10 : 4

Number of peaks found: 2 Corr. Area 1: 851.3
 Noise: 0.1

Peak table for sample 10 : 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	292	1,772.95	9,210.7		68.29
3	308	2,296.94	11,300.4		69.69
4	10,380	75.00	10.9	Upper Marker	113.00

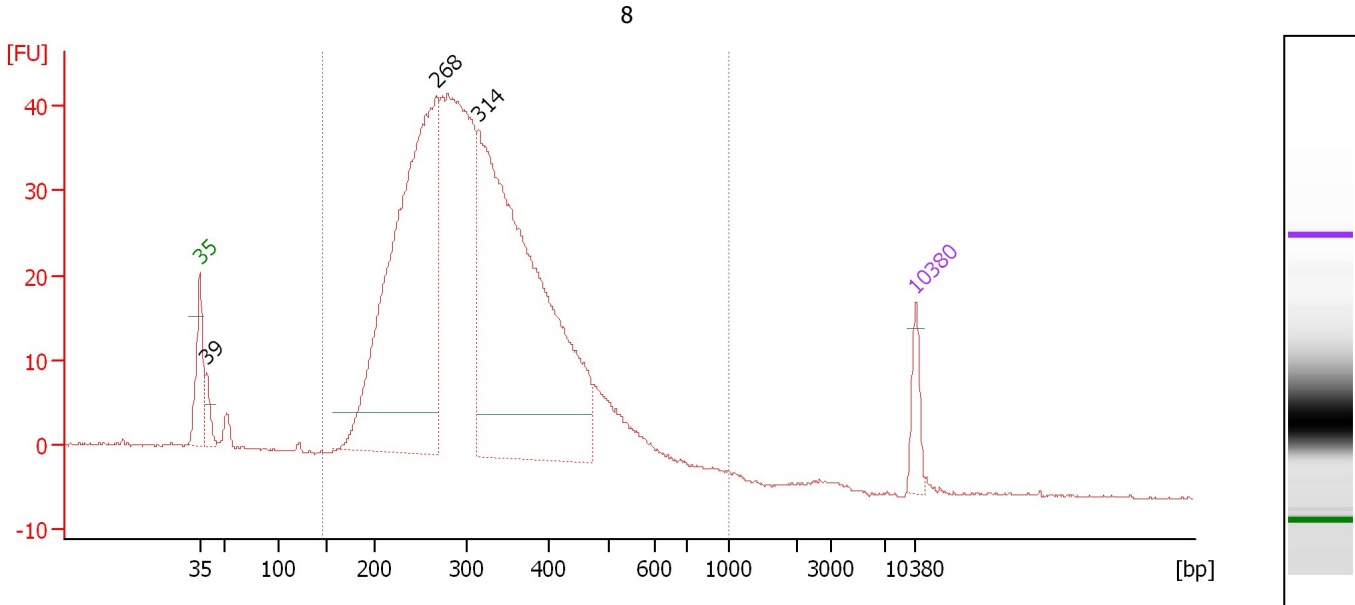
Region table for sample 10 : 4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
172	1,000	341	851.3	23,137.4	4,823.75	98	25.8

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Electropherogram Summary Continued ...



Overall Results for sample 11 : 8

Number of peaks found: 3 Corr. Area 1: 949.8
 Noise: 0.2

Peak table for sample 11 : 8

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	39	95.82	3,685.8		43.68
3	268	2,139.05	12,099.3		66.14
4	314	2,352.13	11,338.1		70.21
5	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 8

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	322	949.8	32,960.9	6,371.30	96	28.9

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Gel Image

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 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-11\2016-05-11_002.xad

Created: 5/11/2016 1:50:07 PM
 Modified: 5/11/2016 2:33:31 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		5/11/2016 2:31:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-05-11\2016-05-11_002.xad)		Instrument	Run		5/11/2016 1:50:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/11/2016 1:50:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/11/2016 1:50:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/11/2016 1:50:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/11/2016 1:50:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/11/2016 1:50:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/11/2016 1:50:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1