

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27\_003.xad

Created: 6/27/2016 1:45:27 PM  
Modified: 6/27/2016 2:29:01 PM

**Electrophoresis File Run Summary**

Instrument Information:

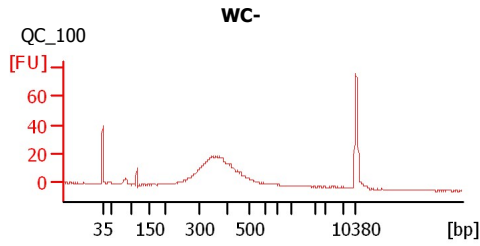
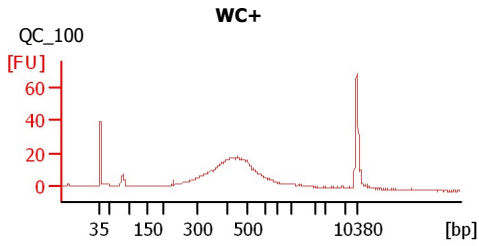
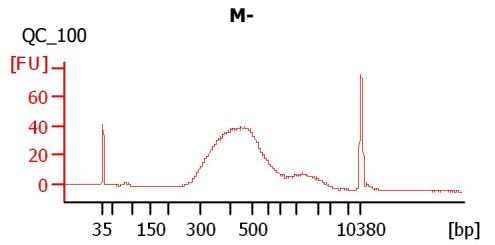
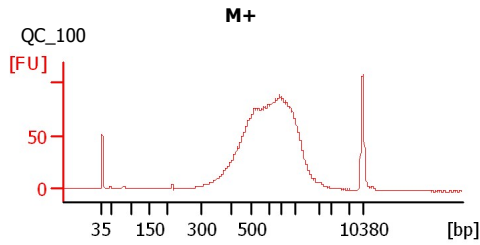
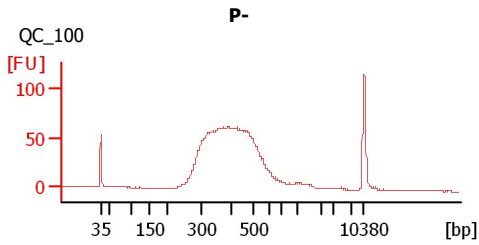
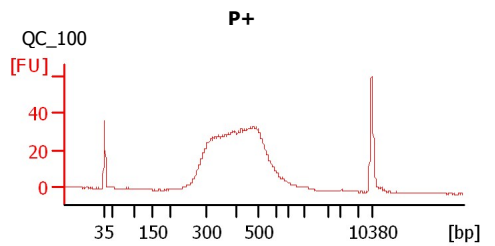
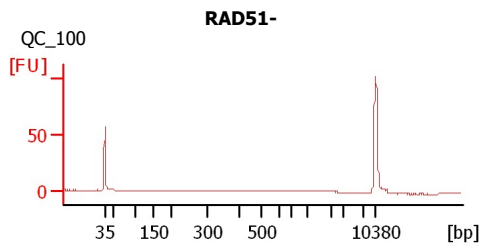
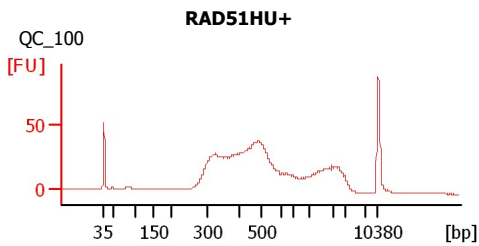
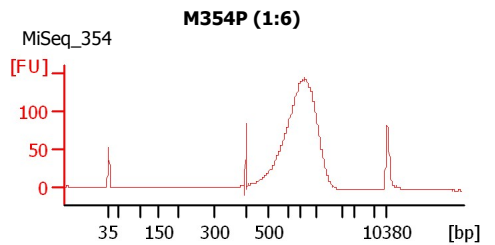
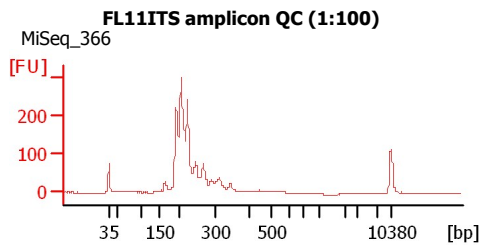
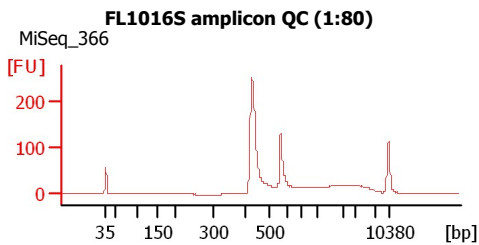
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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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Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27\_003.xad

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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
FL1016S amplicon QC (1:80)	MiSeq_366	<input type="checkbox"/>	✓			
FL11ITS amplicon QC (1:100)	MiSeq_366	<input type="checkbox"/>	✓			
M354P (1:6)	MiSeq_354	<input type="checkbox"/>	✓			
RAD51HU+	QC_100	<input type="checkbox"/>	✓			
RAD51-	QC_100	<input type="checkbox"/>	✓			
P+	QC_100	<input type="checkbox"/>	✓			
P-	QC_100	<input type="checkbox"/>	✓			
M+	QC_100	<input type="checkbox"/>	⚠			
M-	QC_100	<input type="checkbox"/>	✓			
WC+	QC_100	<input type="checkbox"/>	✓			
WC-	QC_100	<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

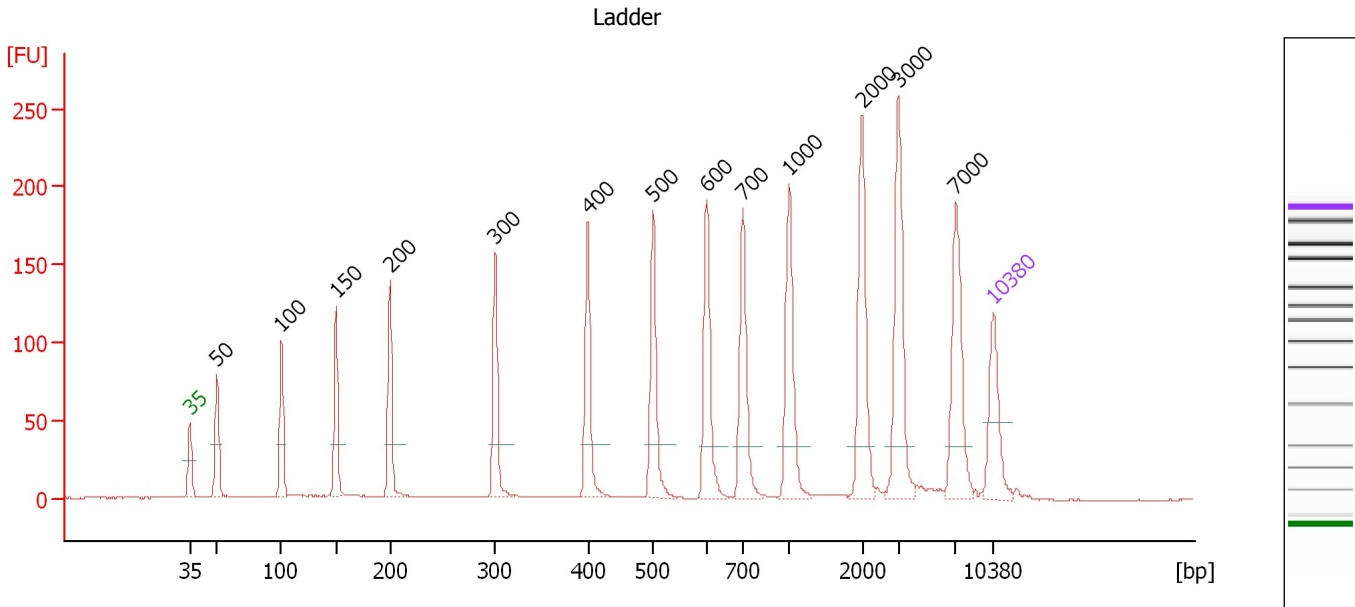
**Ladder**

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

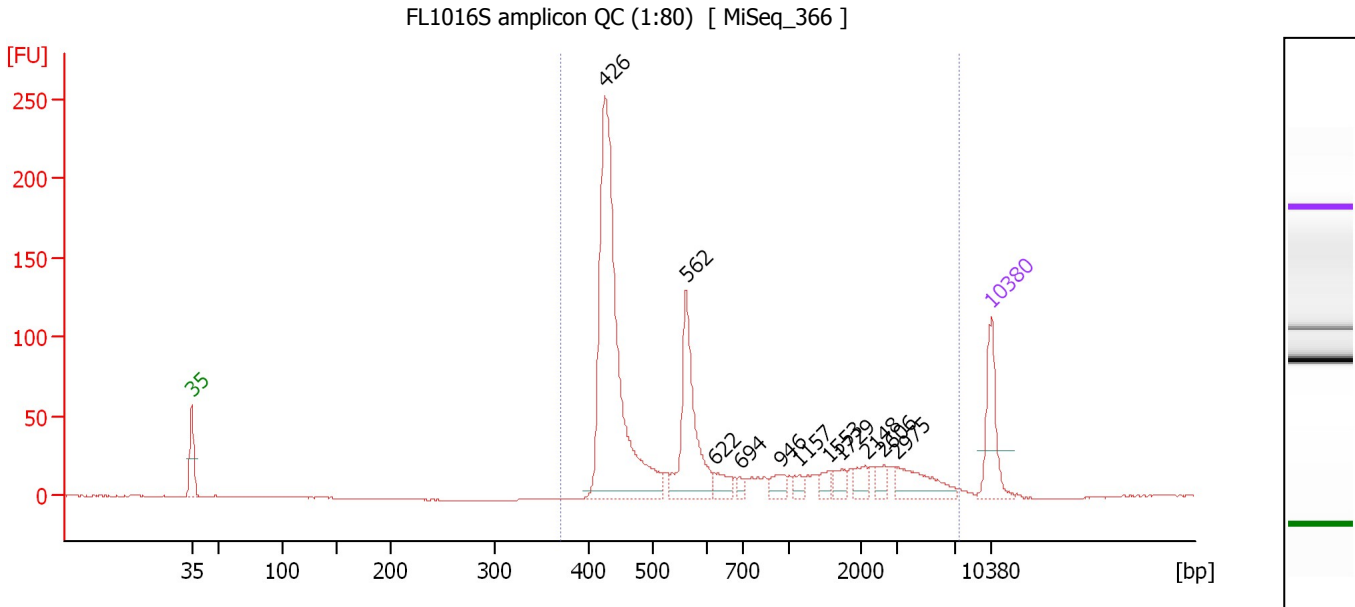
**Peak table for Ladder**

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	50.95
4	150	150.00	1,515.2	Ladder Peak	55.74
5	200	150.00	1,136.4	Ladder Peak	60.43
6	300	150.00	757.6	Ladder Peak	69.59
7	400	150.00	568.2	Ladder Peak	77.67
8	500	150.00	454.5	Ladder Peak	83.35
9	600	150.00	378.8	Ladder Peak	88.04
10	700	150.00	324.7	Ladder Peak	91.15
11	1,000	150.00	227.3	Ladder Peak	95.20
12	2,000	150.00	113.6	Ladder Peak	101.57
13	3,000	150.00	75.8	Ladder Peak	104.73
14	7,000	150.00	32.5	Ladder Peak	109.75
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : FL1016S amplicon QC (1:80)**

Number of peaks found: 11                      Corr. Area 1: 1,089.7  
 Noise: 0.2

**Peak table for sample 1 : FL1016S amplicon QC (1:80)**

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	426	635.23	2,257.7		79.17
3	562	198.00	533.7		86.26
4	622	29.08	70.8		88.73
5	694	8.81	19.2		90.97
6	946	21.57	34.5		94.47
7	1,157	12.88	16.9		96.20
8	1,553	14.40	14.0		98.72
9	1,729	18.44	16.2		99.84
10	2,148	21.46	15.1		102.03
11	2,606	17.59	10.2		103.48
12	2,975	57.19	29.1		104.65
13	10,380	75.00	10.9	Upper Marker	113.00

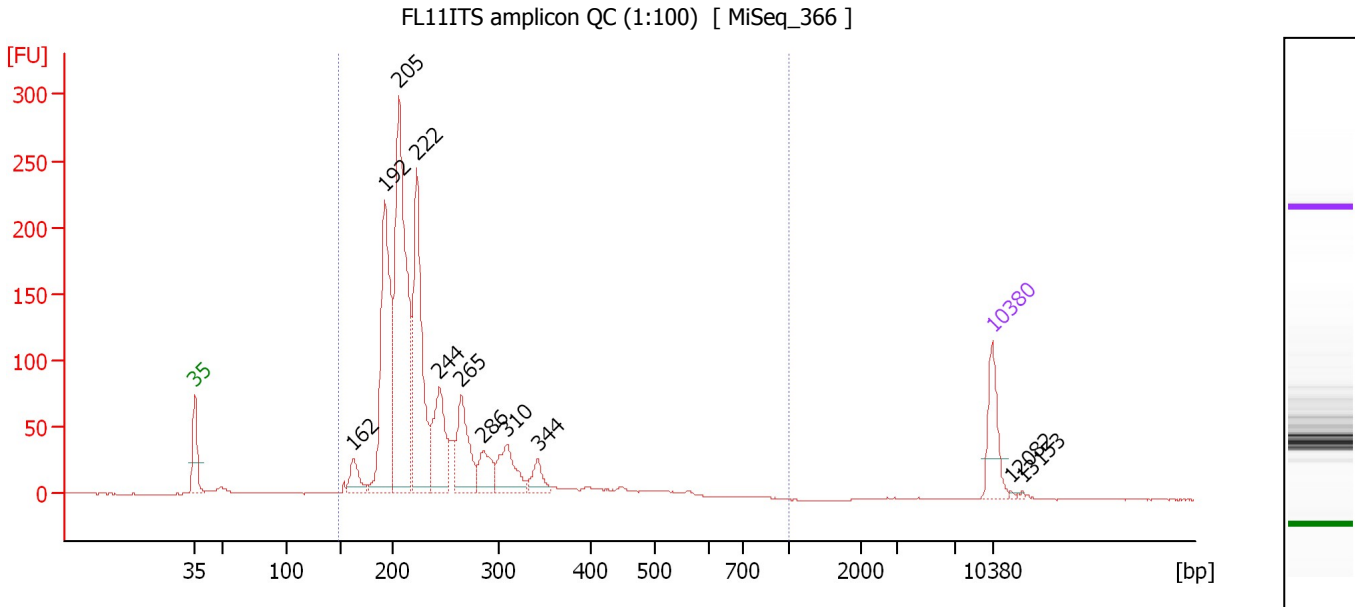
**Region table for sample 1 : FL1016S amplicon QC (1:80)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
371	7,421	1,017	1,089.7	2,931.4	1,062.56	100	100.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : FL11ITS amplicon QC (1:100)**

Number of peaks found: 11                      Corr. Area 1: 1,992.1  
 Noise: 0.3

**Peak table for sample 2 : FL11ITS amplicon QC (1:100)**

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	162	62.85	586.1		56.91
3	192	500.79	3,954.1		59.67
4	205	738.89	5,461.6		60.89
5	222	446.32	3,041.1		62.48
6	244	199.64	1,240.5		64.44
7	265	160.78	920.0		66.36
8	286	77.52	411.0		68.28
9	310	105.90	517.7		70.39
10	344	42.15	185.9		73.11
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,082	0.00	0.0		114.64
13	13,153	0.00	0.0		115.67

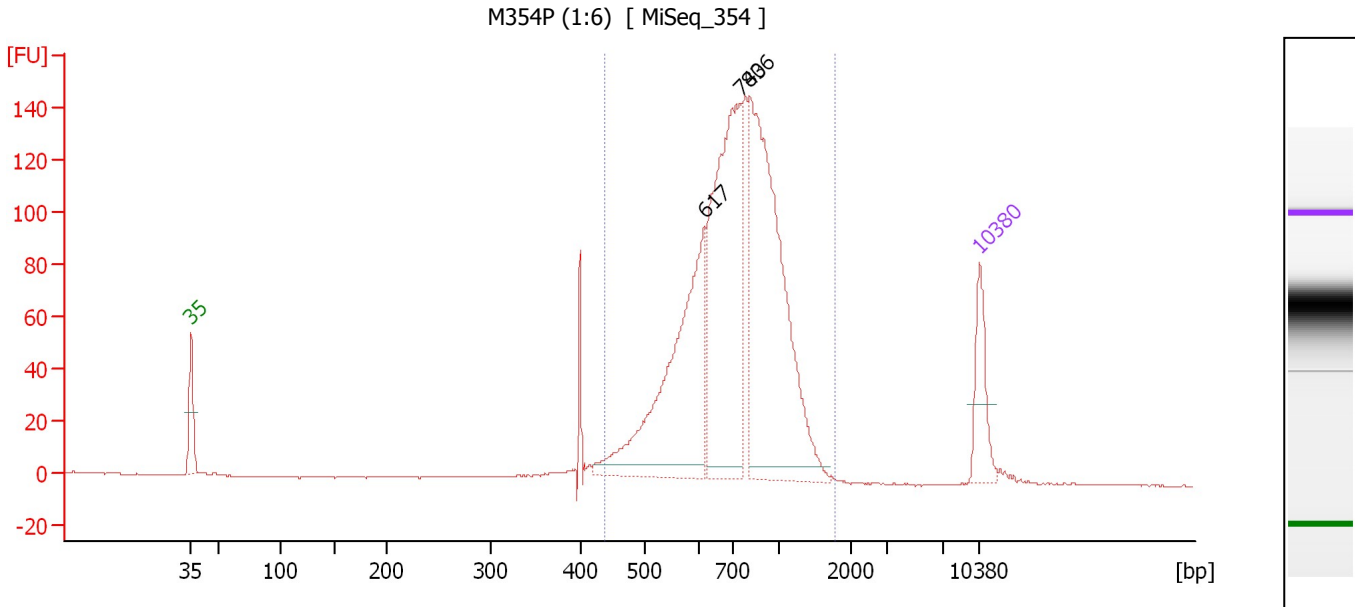
**Region table for sample 2 : FL11ITS amplicon QC (1:100)**

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	240	1,992.1	16,964.6	2,529.81	98	26.7

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : M354P (1:6)**

Number of peaks found: 3                      Corr. Area 1: 1,489.2  
 Noise: 0.2

**Peak table for sample 3 : M354P (1:6)**

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	617	466.84	1,146.9		88.56
3	743	545.81	1,112.9		91.73
4	806	652.65	1,226.4		92.59
5	10,380	75.00	10.9	Upper Marker	113.00

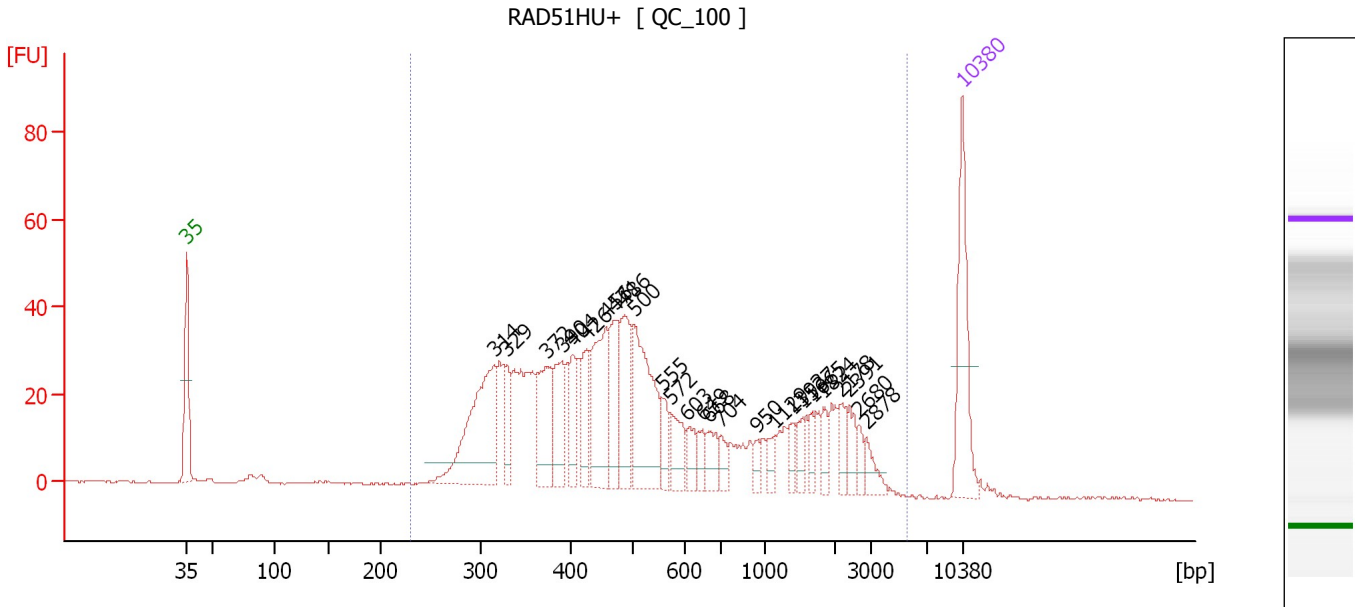
**Region table for sample 3 : M354P (1:6)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
435	1,783	770	1,489.2	3,796.3	1,784.21	96	27.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : RAD51HU+**

Number of peaks found: 26                      Corr. Area 1: 1,021.4  
 Noise: 0.3

**Peak table for sample 4 : RAD51HU+**

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	314	168.95	813.9		70.76
3	329	36.35	167.5		71.91
4	372	73.08	297.5		75.43
5	390	55.95	217.3		76.87
6	404	39.20	147.1		77.88
7	426	42.85	152.5		79.13
8	456	95.29	316.5		80.86
9	471	57.22	184.2		81.68
10	486	73.83	230.2		82.55
11	500	121.38	367.5		83.36
12	555	22.21	60.7		85.91
13	572	33.79	89.5		86.73
14	603	18.72	47.1		88.13
15	649	16.29	38.0		89.57
16	668	22.32	50.6		90.15
17	704	14.23	30.6		91.21
18	950	9.30	14.8		94.53
19	1,129	11.01	14.8		96.02
20	1,393	12.27	13.3		97.70
21	1,537	15.37	15.2		98.62
22	1,665	12.55	11.4		99.43
23	1,824	13.67	11.4		100.44
24	2,178	16.20	11.3		102.13
25	2,391	16.07	10.2		102.80



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### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : RAD51HU+

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,680	9.23	5.2		103.71
27	2,878	14.80	7.8		104.34
28	10,380	75.00	10.9	Upper Marker	113.00

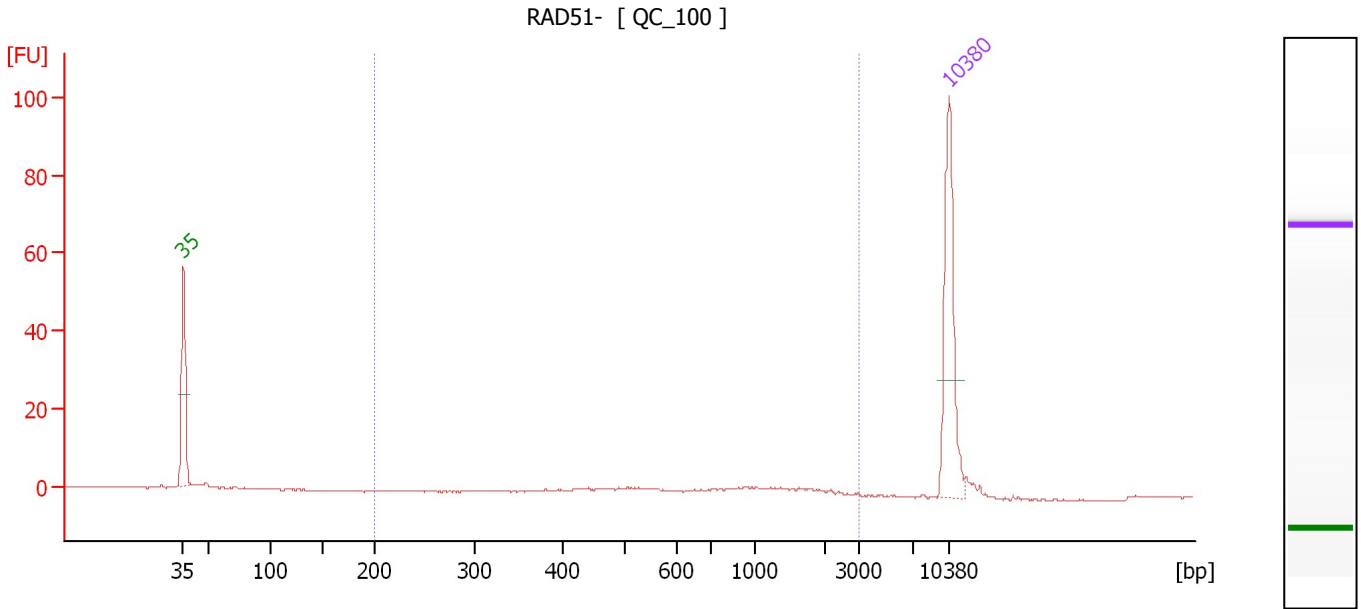
#### Region table for sample 4 : RAD51HU+

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
230	5,672	759	1,021.4	4,612.4	1,395.83	97	88.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : RAD51-**

Number of peaks found: 0                      Corr. Area 1: 24.1  
 Noise: 0.2

**Peak table for sample 5 : RAD51-**

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

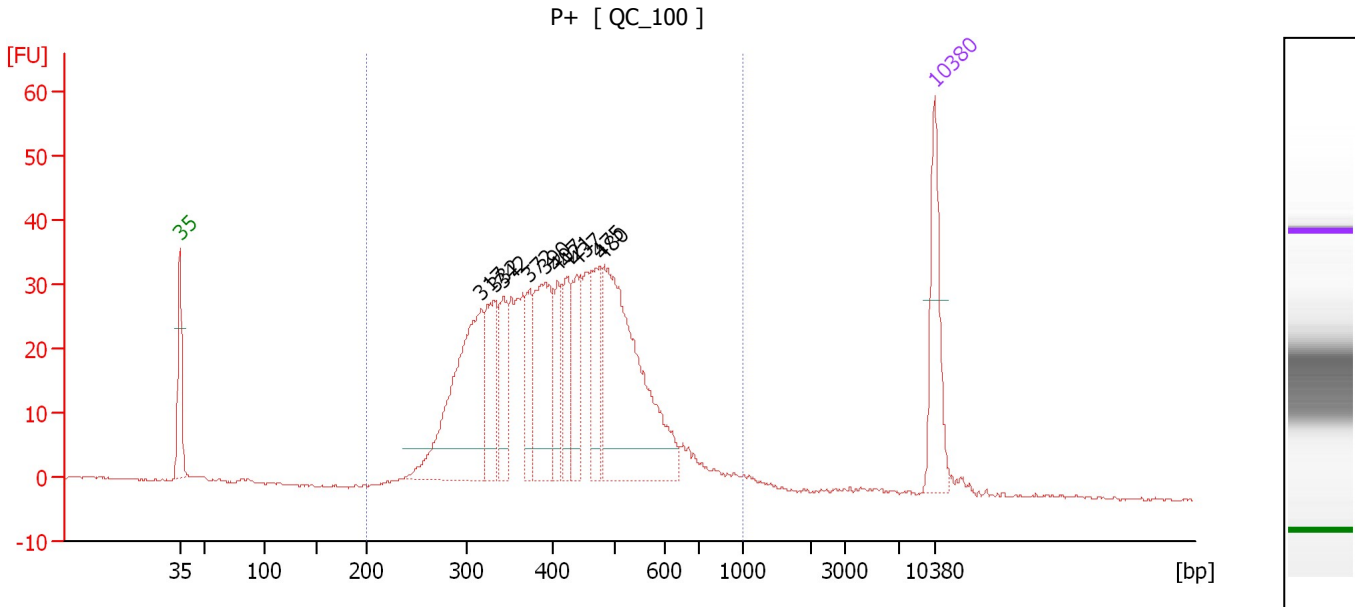
**Region table for sample 5 : RAD51-**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	2,990	969	24.1	54.4	25.11	71	53.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : P+**

Number of peaks found: 10                      Corr. Area 1: 782.9  
 Noise: 0.2

**Peak table for sample 6 : P+**

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	317	272.76	1,302.8		70.98
3	332	96.05	438.5		72.17
4	342	67.87	300.4		73.01
5	372	50.78	206.7		75.43
6	390	142.74	554.6		76.86
7	407	52.90	197.1		78.05
8	421	61.55	221.3		78.89
9	437	61.31	212.5		79.78
10	475	81.93	261.1		81.95
11	480	326.51	1,031.0		82.20
12	10,380	75.00	10.9	Upper Marker	113.00

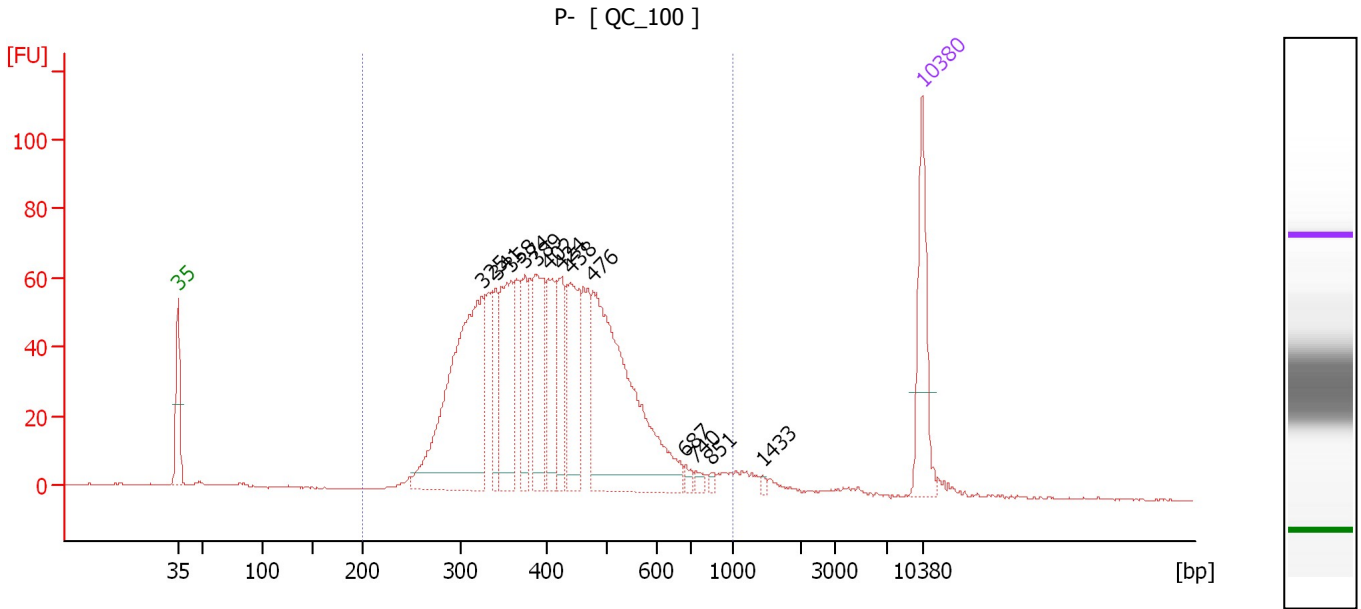
**Region table for sample 6 : P+**

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	426	782.9	6,091.8	1,575.91	97	25.9

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : P-**

Number of peaks found: 13                      Corr. Area 1: 1,430.9  
 Noise: 0.3

**Peak table for sample 7 : P-**

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	325	352.81	1,646.5		71.58
3	341	61.01	271.3		72.89
4	358	129.66	548.5		74.29
5	374	69.15	280.0		75.59
6	389	108.21	422.0		76.75
7	402	82.38	310.3		77.80
8	424	72.18	257.8		79.05
9	438	114.61	396.1		79.86
10	476	346.10	1,100.5		82.01
11	687	6.90	15.2		90.74
12	740	7.25	14.9		91.69
13	851	3.96	7.1		93.19
14	1,433	2.81	3.0		97.96
15	10,380	75.00	10.9	Upper Marker	113.00

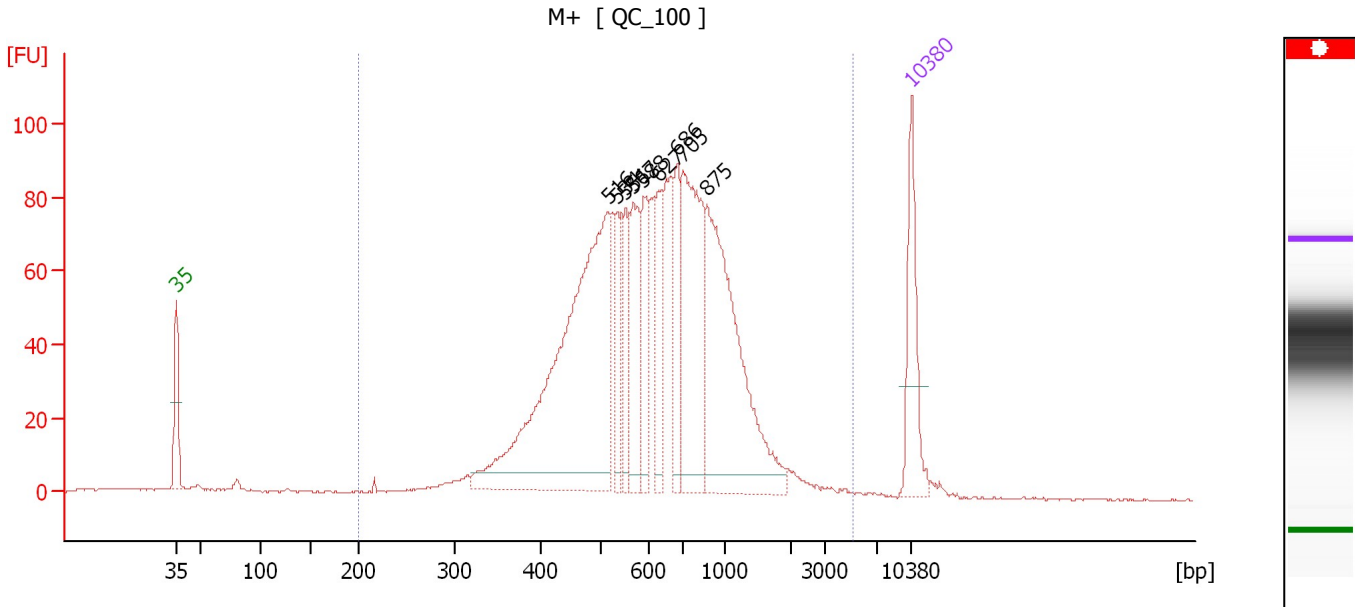
**Region table for sample 7 : P-**

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	420	1,430.9	6,334.4	1,620.55	96	26.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : M+**

Number of peaks found: 9                      Corr. Area 1: 1,705.3  
 Noise: 0.3

**Peak table for sample 8 : M+**

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	516	558.91	1,639.8		84.12
3	534	64.71	183.7		84.93
4	551	63.18	173.7		85.74
5	567	96.82	258.6		86.50
6	588	72.24	186.2		87.47
7	627	73.49	177.5		88.89
8	686	79.06	174.6		90.72
9	705	224.59	482.6		91.22
10	875	308.56	534.5		93.51
11	10,380	75.00	10.9	Upper Marker	113.00

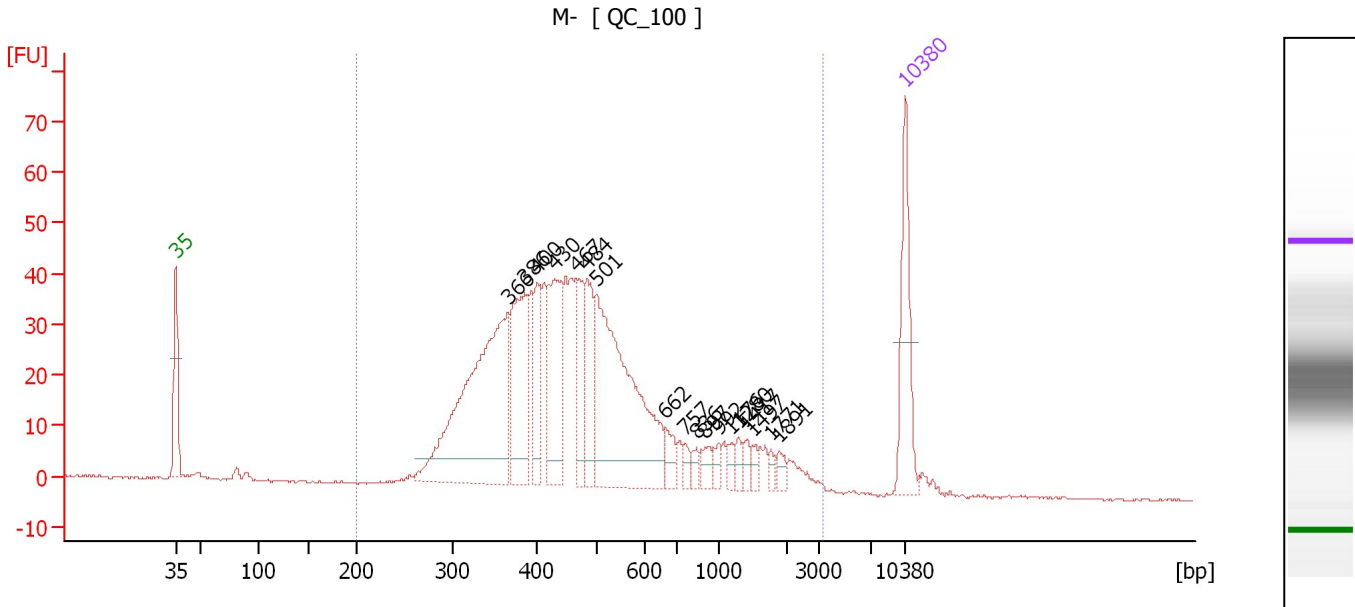
**Region table for sample 8 : M+**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	5,211	705	1,705.3	4,790.4	1,833.60	98	51.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : M-**

Number of peaks found: 18                      Corr. Area 1: 927.7  
 Noise: 0.2

**Peak table for sample 9 : M-**

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	366	363.66	1,505.2		74.93
3	386	139.02	546.1		76.52
4	400	59.74	226.1		77.69
5	430	127.95	450.7		79.38
6	467	63.07	204.6		81.48
7	484	77.05	241.1		82.45
8	501	306.68	928.3		83.37
9	662	20.42	46.7		89.97
10	757	9.13	18.3		91.92
11	836	9.93	18.0		92.99
12	897	14.54	24.6		93.81
13	992	8.96	13.7		95.09
14	1,176	9.77	12.6		96.32
15	1,280	9.54	11.3		96.98
16	1,417	9.60	10.3		97.85
17	1,497	7.55	7.6		98.37
18	1,771	6.13	5.2		100.11
19	1,891	9.07	7.3		100.87
20	10,380	75.00	10.9	Upper Marker	113.00

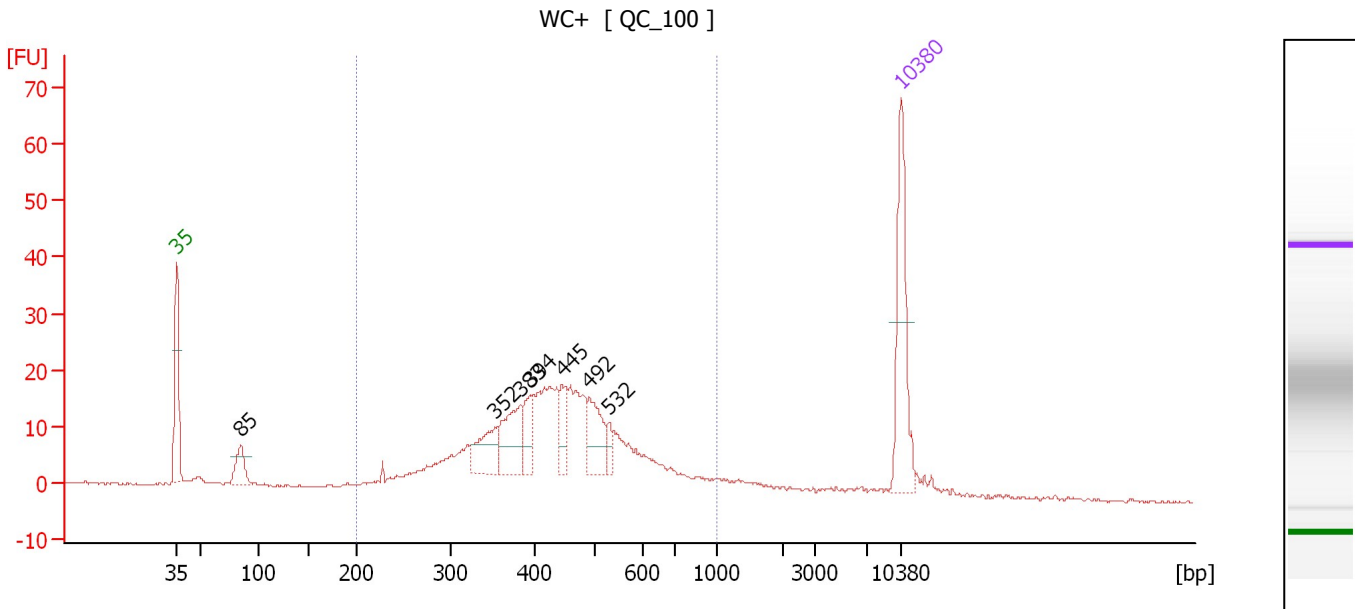
**Region table for sample 9 : M-**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	3,359	569	927.7	5,286.2	1,532.04	98	69.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27\_003.xad

Created: 6/27/2016 1:45:27 PM  
 Modified: 6/27/2016 2:29:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : WC+**

Number of peaks found: 7                      Corr. Area 1: 358.2  
 Noise: 0.2

**Peak table for sample 10 : WC+**

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	85	33.44	597.8		49.23
3	352	42.50	182.9		73.80
4	383	57.84	229.0		76.27
5	394	28.97	111.5		77.15
6	445	26.92	91.6		80.24
7	492	42.24	129.9		82.92
8	532	10.87	31.0		84.82
9	10,380	75.00	10.9	Upper Marker	113.00

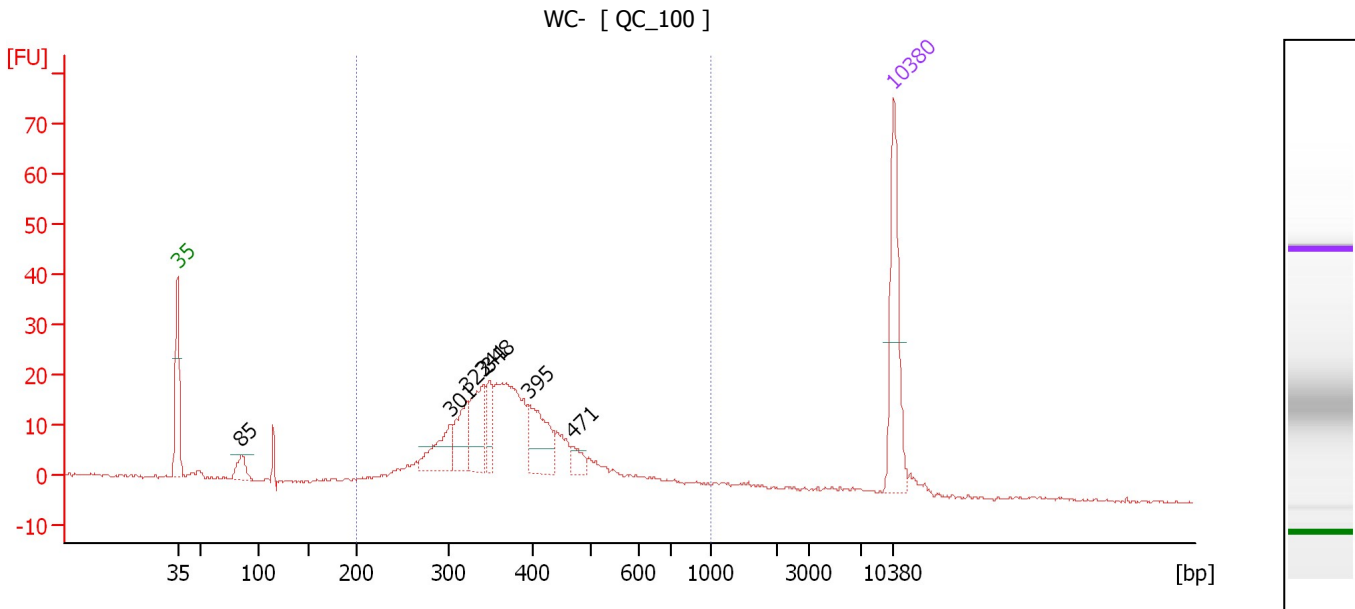
**Region table for sample 10 : WC+**

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	447	358.2	2,353.3	627.64	87	28.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27\_003.xad

Created: 6/27/2016 1:45:27 PM  
 Modified: 6/27/2016 2:29:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : WC-**

Number of peaks found: 7                      Corr. Area 1: 339.5  
 Noise: 0.3

**Peak table for sample 11 : WC-**

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	85	23.43	418.0		49.25
3	301	45.33	228.0		69.69
4	322	41.10	193.5		71.35
5	341	59.44	264.5		72.87
6	348	29.44	128.3		73.44
7	395	59.51	228.1		77.30
8	471	13.60	43.8		81.67
9	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : WC-**

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	391	339.5	2,398.2	573.18	90	27.4



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27\_003.xad

Created: 6/27/2016 1:45:27 PM  
Modified: 6/27/2016 2:29:01 PM

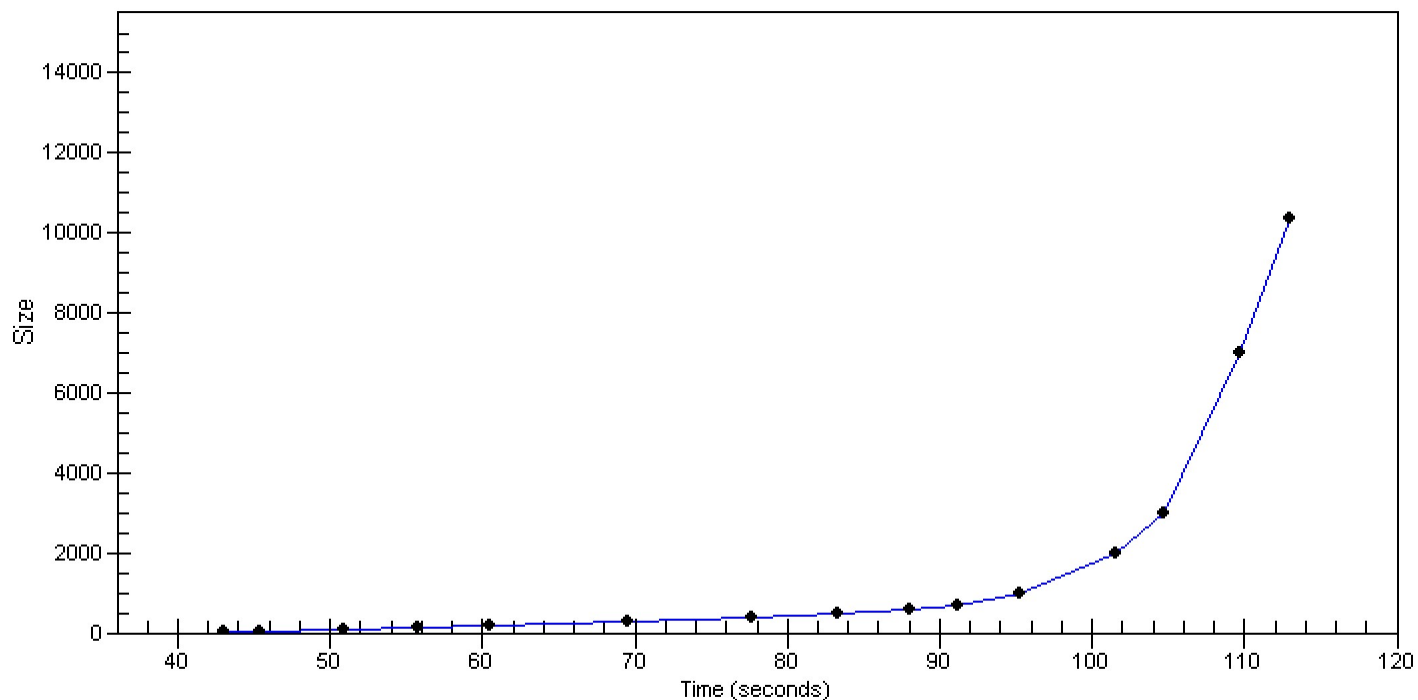
**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27\_003.xad

Created: 6/27/2016 1:45:27 PM  
Modified: 6/27/2016 2:29:01 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27\_003.xad

Created: 6/27/2016 1:45:27 PM  
 Modified: 6/27/2016 2:29:01 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		6/27/2016 2:26:46 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\2016-06-27\2016-06-27_003.xad)		Instrument	Run		6/27/2016 1:45:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/27/2016 1:45:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/27/2016 1:45:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/27/2016 1:45:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/27/2016 1:45:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/27/2016 1:45:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/27/2016 1:45:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1