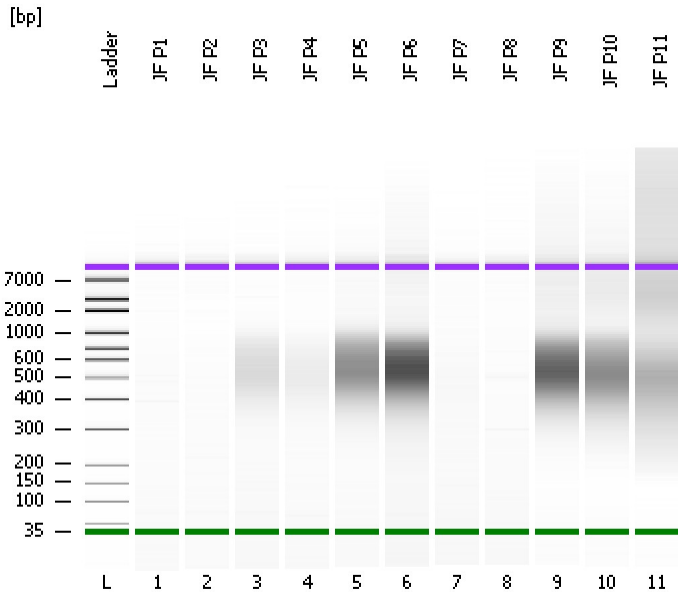


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
Modified: 9/10/2018 11:38:01 AM

Electrophoresis File Run Summary



Instrument Information:

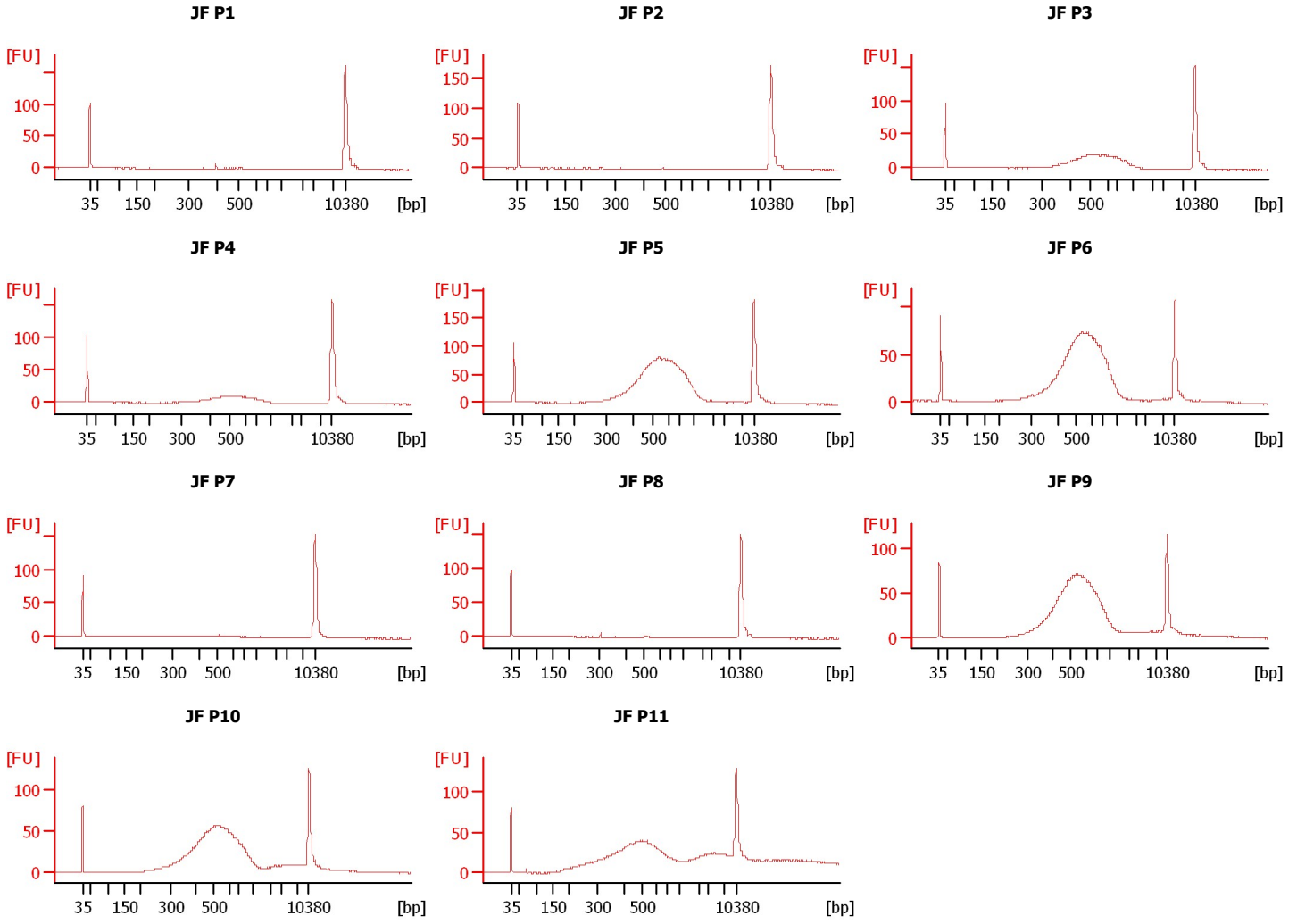
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
Modified: 9/10/2018 11:38:01 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JF P1		<input type="checkbox"/>	✓			
JF P2		<input type="checkbox"/>	✓			
JF P3		<input type="checkbox"/>	✓			
JF P4		<input type="checkbox"/>	✓			
JF P5		<input type="checkbox"/>	✓			
JF P6		<input type="checkbox"/>	✓			
JF P7		<input type="checkbox"/>	✓			
JF P8		<input type="checkbox"/>	✓			
JF P9		<input type="checkbox"/>	✓			
JF P10		<input type="checkbox"/>	✓			
JF P11		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
Modified: 9/10/2018 11:38:01 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

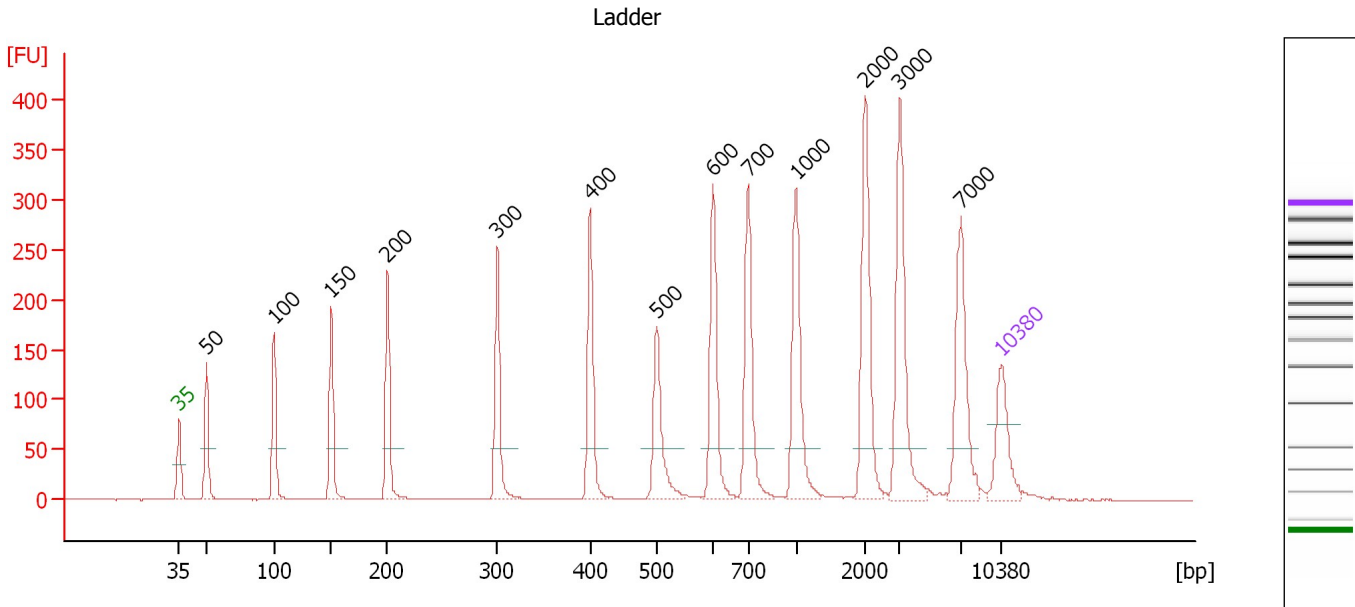
Ladder

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:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

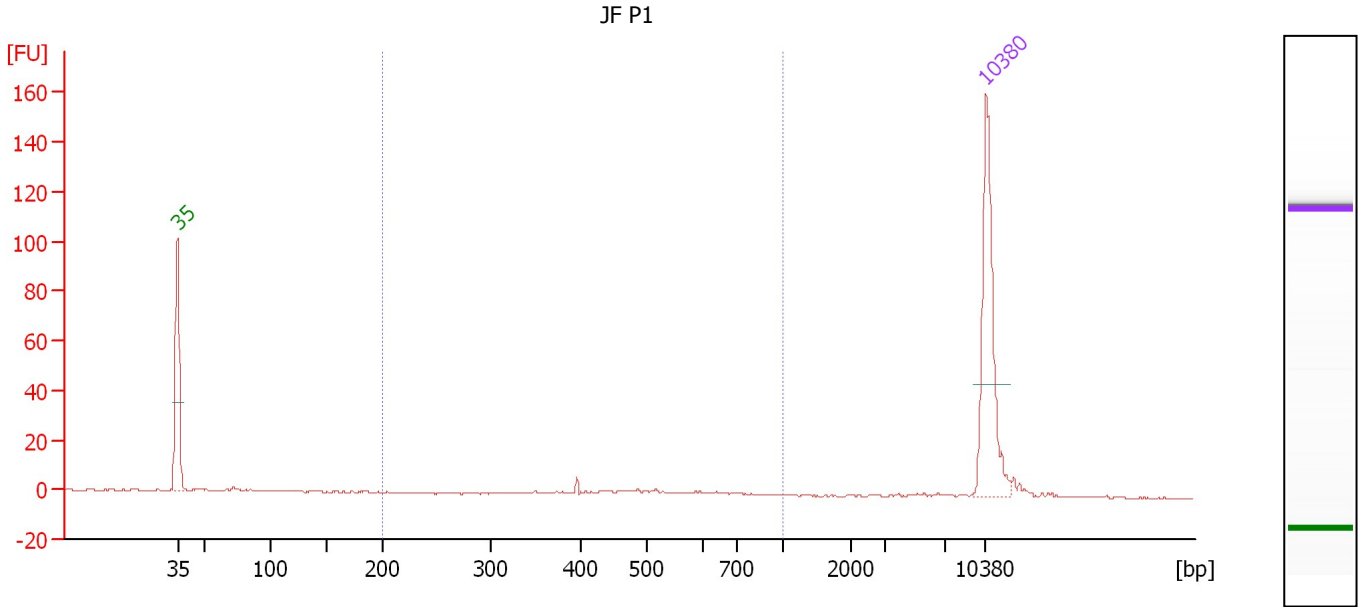
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	51.08
4	150	150.00	1,515.2	Ladder Peak	55.97
5	200	150.00	1,136.4	Ladder Peak	60.74
6	300	150.00	757.6	Ladder Peak	70.08
7	400	150.00	568.2	Ladder Peak	77.98
8	500	150.00	454.5	Ladder Peak	83.65
9	600	150.00	378.8	Ladder Peak	88.46
10	700	150.00	324.7	Ladder Peak	91.41
11	1,000	150.00	227.3	Ladder Peak	95.49
12	2,000	150.00	113.6	Ladder Peak	101.34
13	3,000	150.00	75.8	Ladder Peak	104.34
14	7,000	150.00	32.5	Ladder Peak	109.55
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : JF P1

Number of peaks found: 0 Corr. Area 1: 27.3
 Noise: 0.3

Peak table for sample 1 : JF P1

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

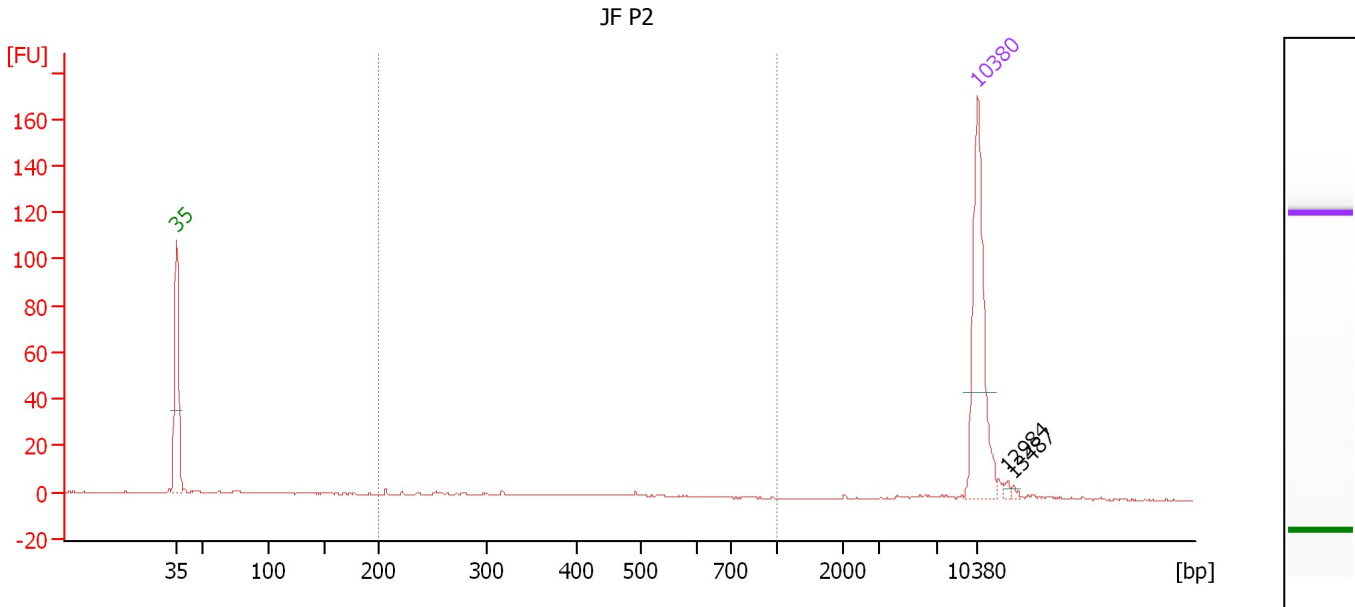
Region table for sample 1 : JF P1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	502	18.43	27.3	61.5	44	26.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : JF P2

Number of peaks found: 2 Corr. Area 1: 19.2
 Noise: 0.3

Peak table for sample 2 : JF P2

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
3	12,984	0.00	0.0		115.66
4	13,487	0.00	0.0		116.17

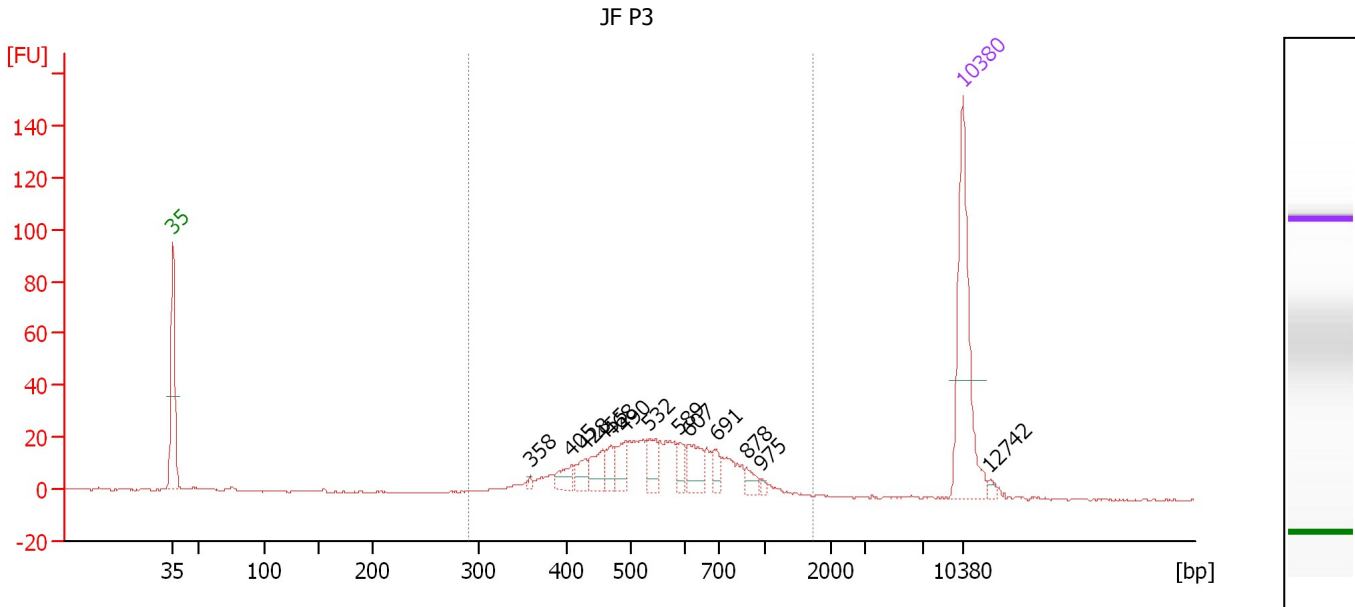
Region table for sample 2 : JF P2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	385	12.61	19.2	57.2	35	31.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : JF P3

Number of peaks found: 13 Corr. Area 1: 402.1
 Noise: 0.3

Peak table for sample 3 : JF P3

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	358	2.21	9.4		74.69
3	405	11.87	44.4		78.28
4	428	11.54	40.8		79.56
5	455	17.48	58.3		81.07
6	468	11.43	37.0		81.83
7	490	15.75	48.7		83.10
8	532	17.21	49.0		85.18
9	589	9.68	24.9		87.92
10	607	19.72	49.2		88.67
11	691	8.61	18.9		91.13
12	878	6.56	11.3		93.82
13	975	2.01	3.1		95.15
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,742	0.00	0.0		115.41

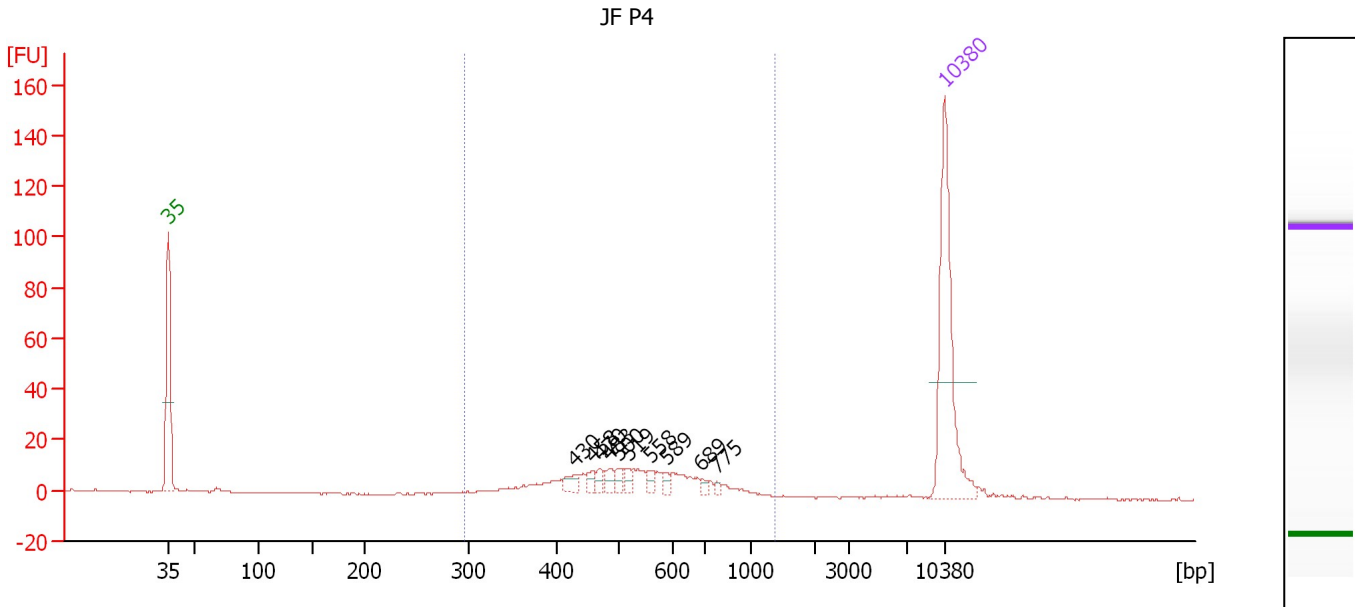
Region table for sample 3 : JF P3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
291	1,716	574	260.28	402.1	758.8	94	30.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : JF P4

Number of peaks found: 10 Corr. Area 1: 200.2
 Noise: 0.2

Peak table for sample 4 : JF P4

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	430	7.63	26.9		79.68
3	458	5.09	16.8		81.27
4	470	4.96	16.0		81.94
5	483	6.14	19.2		82.71
6	500	5.25	15.9		83.63
7	519	5.09	14.9		84.54
8	558	3.89	10.6		86.41
9	589	3.47	8.9		87.95
10	689	2.58	5.7		91.08
11	775	2.01	3.9		92.42
12	10,380	75.00	10.9	Upper Marker	113.00

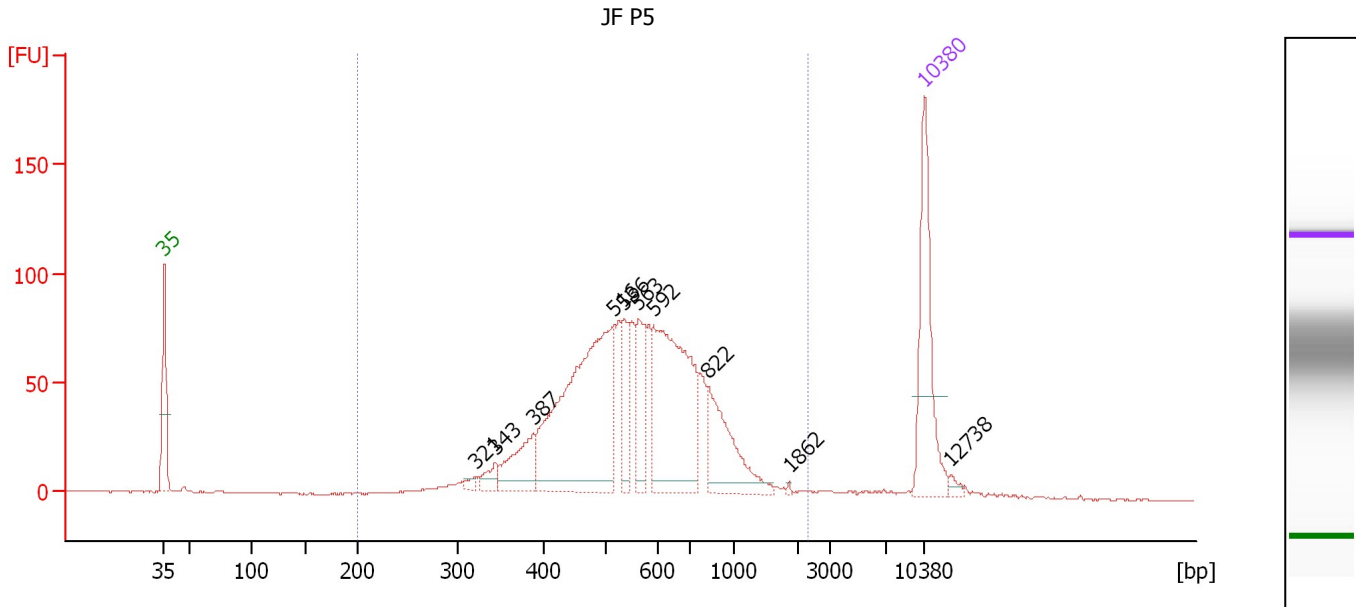
Region table for sample 4 : JF P4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
296	1,363	544	119.95	200.2	364.9	87	27.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : JF P5

Number of peaks found: 10 Corr. Area 1: 1,544.0
 Noise: 0.3

Peak table for sample 5 : JF P5

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	321	4.78	22.6		71.72
3	343	13.04	57.6		73.48
4	387	45.77	179.1		76.97
5	516	252.81	741.9		84.43
6	536	34.24	96.8		85.36
7	563	46.38	124.8		86.69
8	592	171.03	437.9		88.06
9	822	69.92	128.8		93.07
10	1,862	0.87	0.7		100.53
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,738	0.00	0.0		115.41

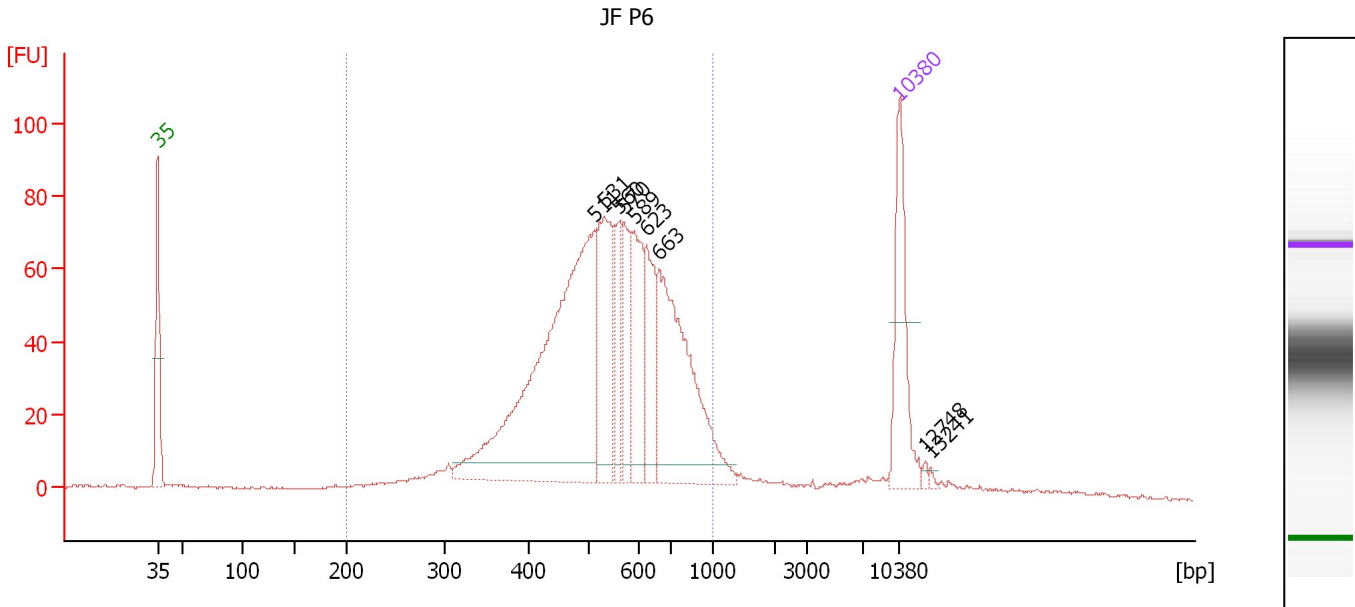
Region table for sample 5 : JF P5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	2,336	598	807.71	1,544.0	2,336.0	97	38.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : JF P6

Number of peaks found: 9 Corr. Area 1: 1,323.1
 Noise: 0.3

Peak table for sample 6 : JF P6

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	511	454.22	1,347.5		84.16
3	531	120.81	345.0		85.12
4	560	52.11	141.0		86.53
5	570	61.15	162.4		87.03
6	589	80.13	206.0		87.94
7	623	69.79	169.6		89.15
8	663	212.89	486.8		90.30
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,748	0.00	0.0		115.42
11	13,241	0.00	0.0		115.92

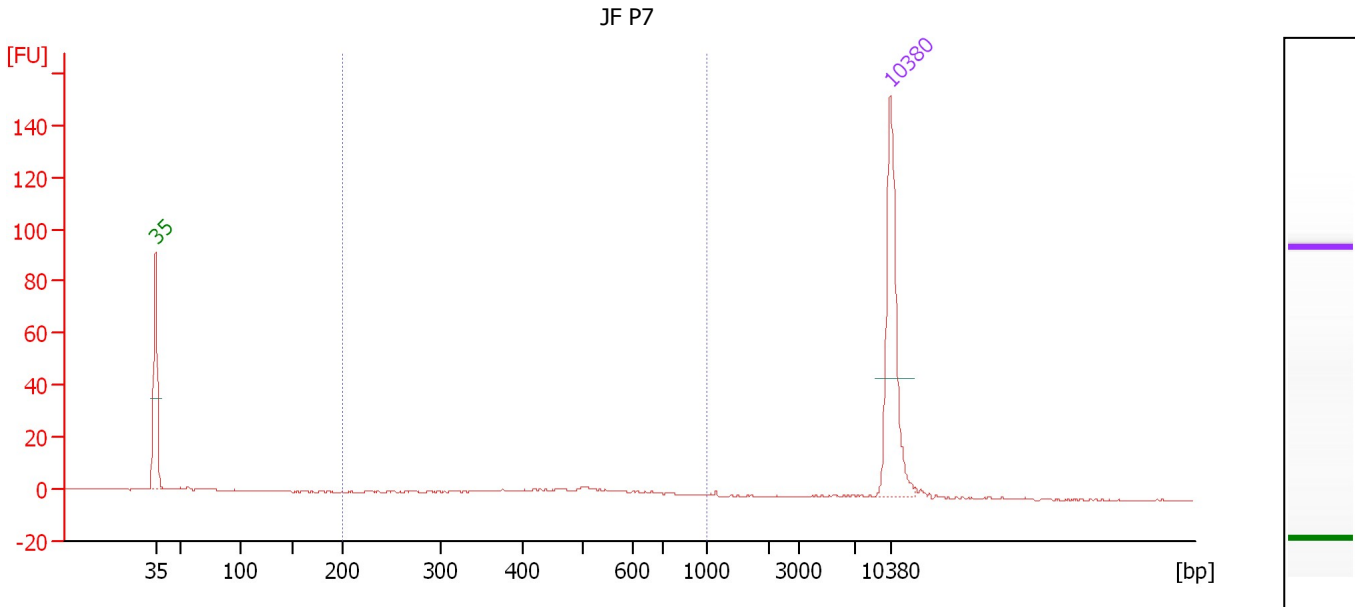
Region table for sample 6 : JF P6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	552	1,198.78	1,323.1	3,620.3	92	25.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : JF P7

Number of peaks found: 0 Corr. Area 1: 31.9
 Noise: 0.3

Peak table for sample 7 : JF P7

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

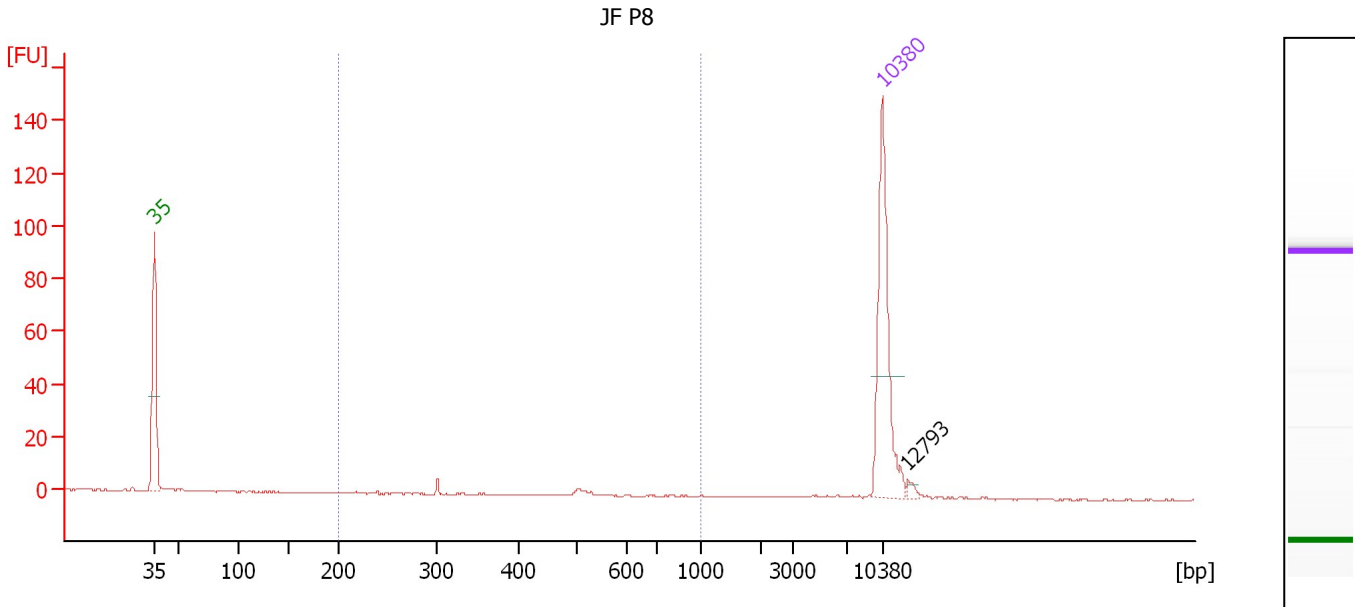
Region table for sample 7 : JF P7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	492	22.18	31.9	73.6	75	23.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : JF P8

Number of peaks found: 1 Corr. Area 1: 5.5
 Noise: 0.2

Peak table for sample 8 : JF P8

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
3	12,793	0.00	0.0		115.46

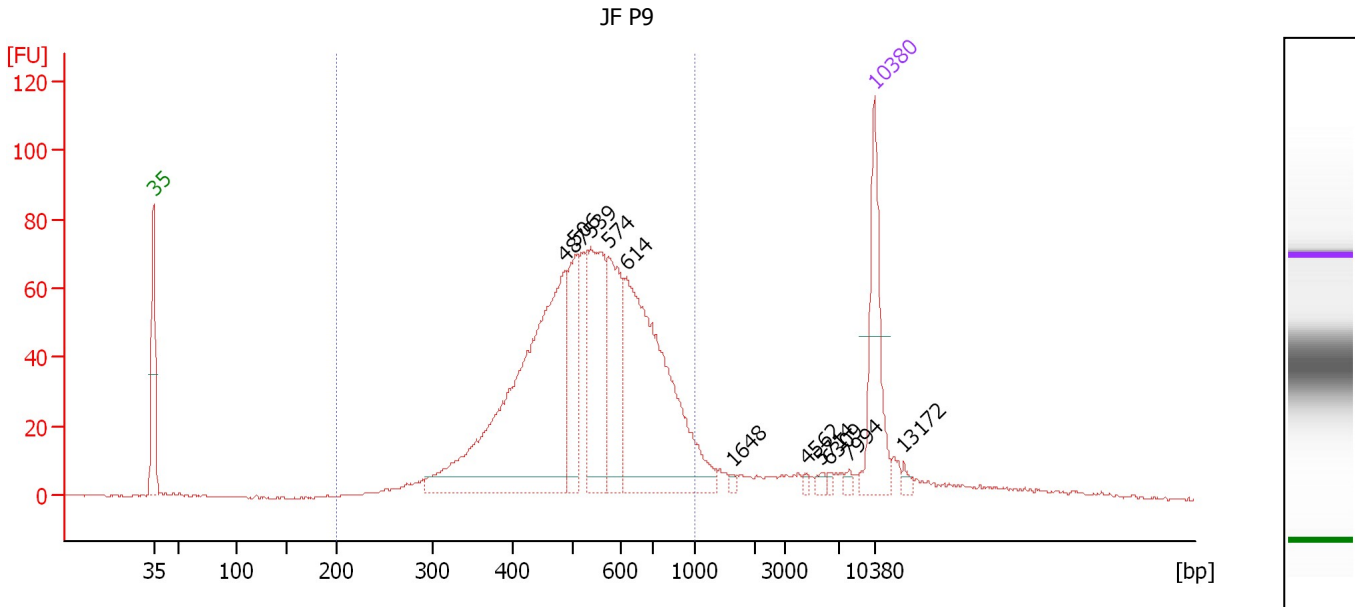
Region table for sample 8 : JF P8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	454	4.06	5.5	15.4	26	27.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : JF P9

Number of peaks found: 11 Corr. Area 1: 1,305.3
 Noise: 0.2

Peak table for sample 9 : JF P9

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	487	421.06	1,309.6		82.92
3	506	79.59	238.2		83.95
4	539	138.49	389.6		85.51
5	574	103.43	272.9		87.22
6	614	289.95	715.4		88.87
7	1,648	2.64	2.4		99.28
8	4,562	2.58	0.9		106.37
9	5,714	4.10	1.1		107.87
10	6,309	2.56	0.6		108.65
11	7,994	3.81	0.7		110.57
12	10,380	75.00	10.9	Upper Marker	113.00
13	13,172	0.00	0.0		115.85

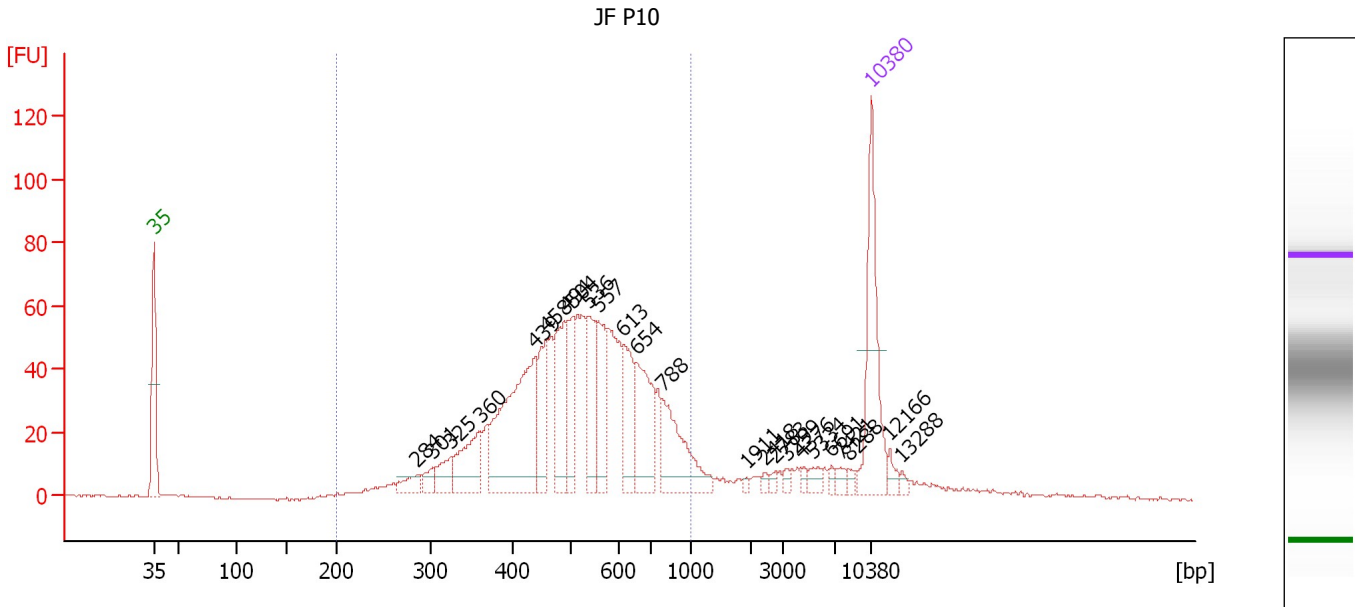
Region table for sample 9 : JF P9

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	546	1,153.47	1,305.3	3,515.5	87	26.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : JF P10

Number of peaks found: 24 Corr. Area 1: 1,151.2
 Noise: 0.3

Peak table for sample 10 : JF P10

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	284	15.35	81.8		68.61
3	301	12.41	62.5		70.17
4	325	22.03	102.8		72.04
5	360	50.56	213.0		74.80
6	439	165.49	570.7		80.21
7	458	49.93	165.3		81.25
8	494	75.42	231.1		83.33
9	504	42.41	127.4		83.86
10	536	51.85	146.7		85.36
11	557	48.62	132.2		86.41
12	613	46.51	114.9		88.85
13	654	66.43	153.9		90.05
14	788	68.89	132.5		92.60
15	1,911	2.28	1.8		100.82
16	2,418	3.10	1.9		102.59
17	2,783	3.04	1.7		103.68
18	3,299	3.41	1.6		104.72
19	4,376	3.45	1.2		106.13
20	5,334	6.94	2.0		107.38
21	6,691	3.40	0.8		109.15
22	7,421	5.35	1.1		109.98
23	8,288	3.31	0.6		110.87
24	10,380	75.00	10.9	Upper Marker	113.00
25	12,166	0.00	0.0		114.82

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...**... Peak table for sample 10 : JF P10**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,288	0.00	0.0		115.97

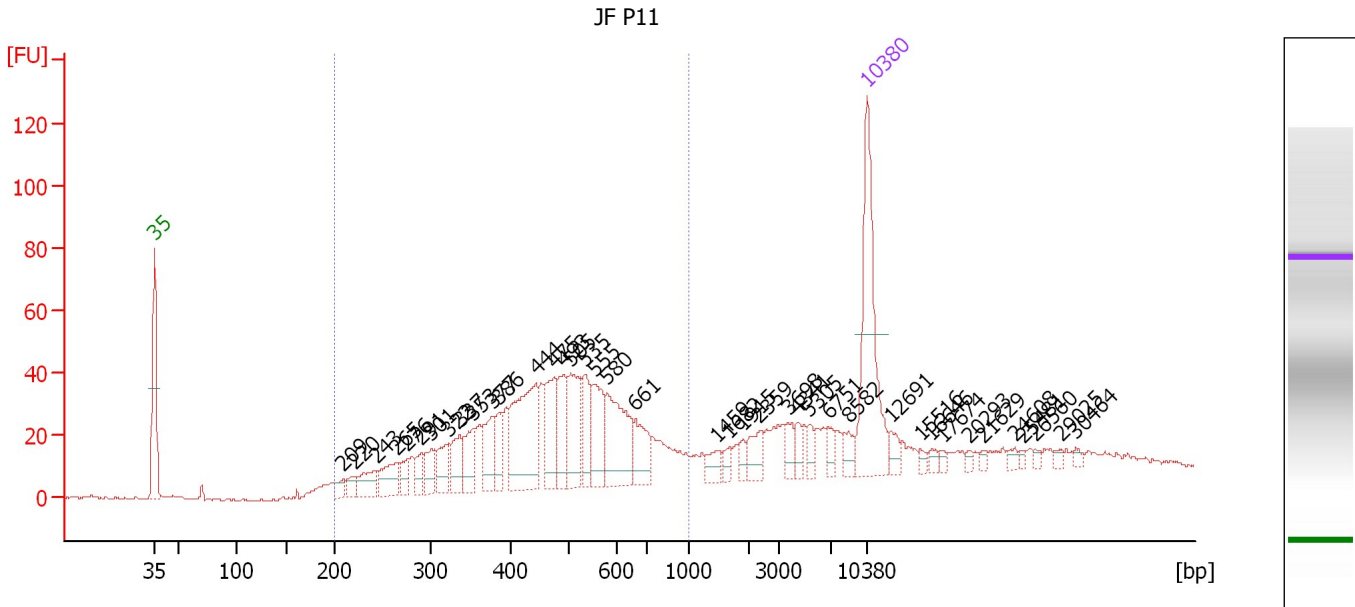
Region table for sample 10 : JF P10

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	527	997.51	1,151.2	3,214.2	 86	28.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : JF P11

Number of peaks found: 40 Corr. Area 1: 795.2
 Noise: 0.4

Peak table for sample 11 : JF P11

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	209	7.43	53.9		61.55
3	220	8.62	59.4		62.60
4	243	20.57	128.0		64.80
5	265	22.10	126.2		66.84
6	276	12.44	68.3		67.84
7	291	12.10	63.1		69.20
8	301	17.90	90.0		70.19
9	322	22.19	104.4		71.82
10	337	21.90	98.4		73.02
11	353	24.53	105.2		74.28
12	377	28.53	114.7		76.17
13	386	19.09	75.0		76.85
14	444	80.63	275.3		80.46
15	475	39.34	125.4		82.24
16	493	31.77	97.7		83.24
17	505	41.23	123.8		83.87
18	535	25.91	73.4		85.34
19	555	32.58	89.0		86.28
20	580	55.53	145.1		87.48
21	661	25.04	57.4		90.26
22	1,459	8.84	9.2		98.17
23	1,682	5.05	4.5		99.48
24	1,915	5.51	4.4		100.84
25	2,359	13.10	8.4		102.42

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
 Modified: 9/10/2018 11:38:01 AM

Electropherogram Summary Continued ...

... Peak table for sample 11 : JF P11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,698	8.18	3.4		105.25
27	4,341	6.75	2.4		106.08
28	5,305	6.36	1.8		107.34
29	6,751	6.79	1.5		109.23
30	8,582	8.47	1.5		111.17
31	10,380	75.00	10.9	Upper Marker	113.00
32	12,691	0.00	0.0		115.36
33	15,516	0.00	0.0		118.24
34	16,646	0.00	0.0		119.39
35	17,674	0.00	0.0		120.44
36	20,293	0.00	0.0		123.11
37	21,629	0.00	0.0		124.47
38	24,608	0.00	0.0		127.51
39	25,481	0.00	0.0		128.40
40	26,560	0.00	0.0		129.50
41	29,025	0.00	0.0		132.02
42	30,464	0.00	0.0		133.49

Region table for sample 11 : JF P11

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	480	593.69	795.2	2,156.8	69	31.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-10\2018-09-10_001.xad

Created: 9/10/2018 10:56:43 AM
Modified: 9/10/2018 11:38:01 AM

Gel Image

