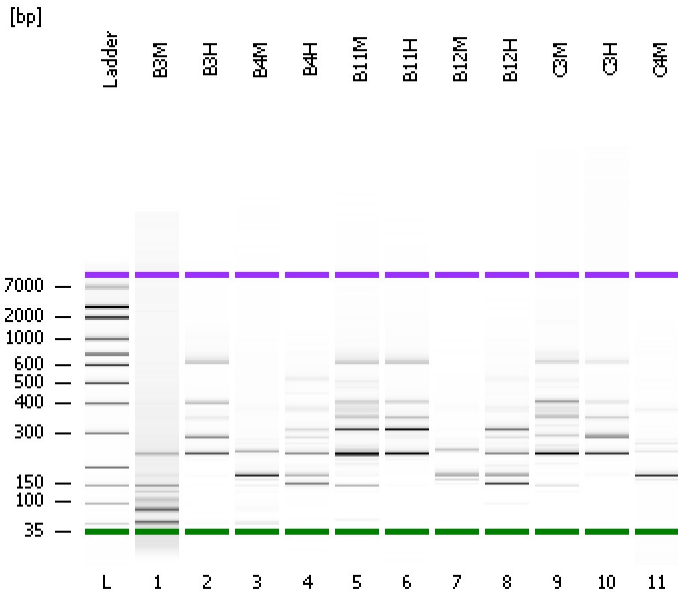


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
Modified: 7/18/2019 11:18:05 AM

Electrophoresis File Run Summary



Instrument Information:

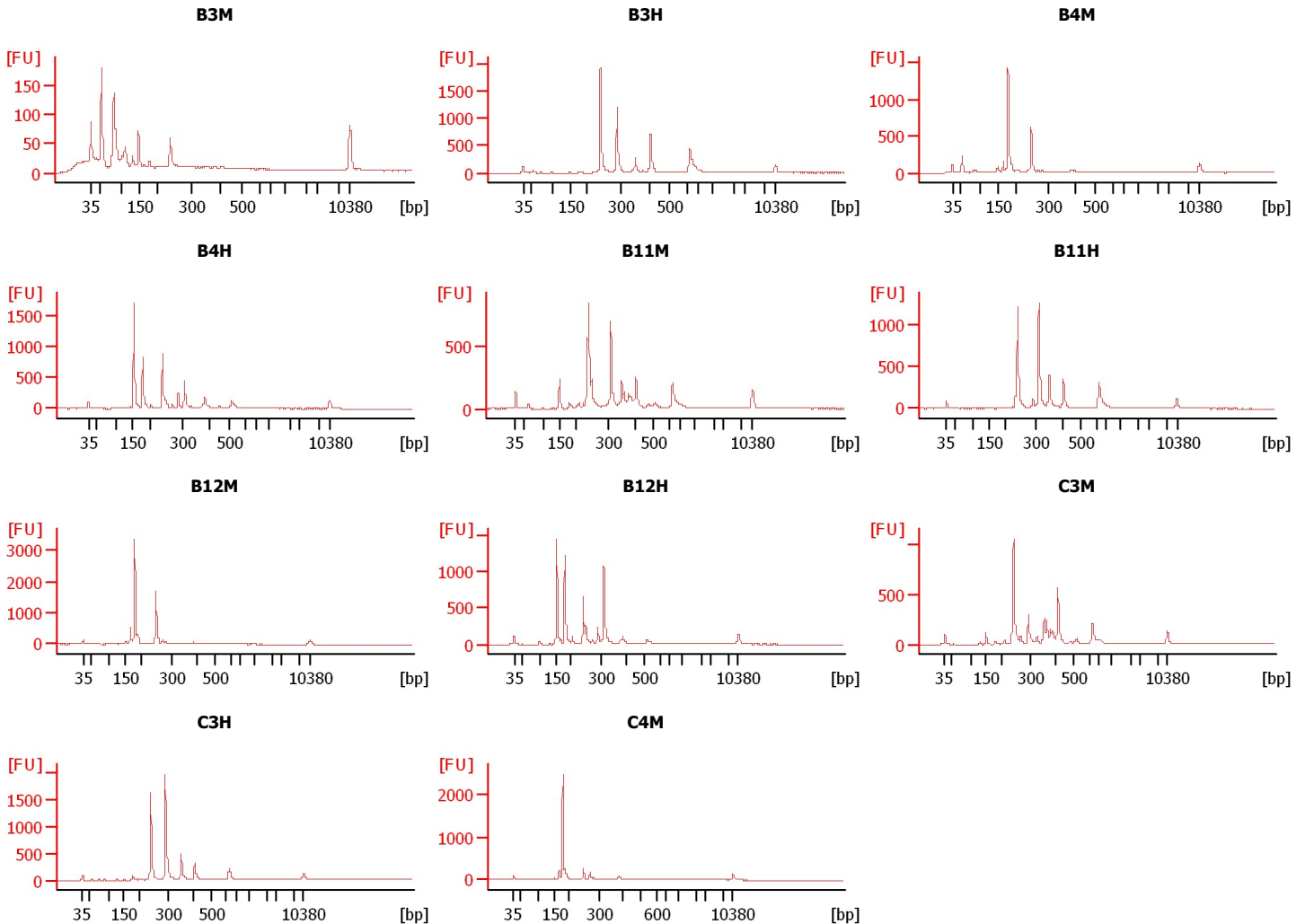
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
B3M		<input type="checkbox"/>	✓			
B3H		<input type="checkbox"/>	✓			
B4M		<input type="checkbox"/>	✓			
B4H		<input type="checkbox"/>	✓			
B11M		<input type="checkbox"/>	✓			
B11H		<input type="checkbox"/>	✓			
B12M		<input type="checkbox"/>	✓			
B12H		<input type="checkbox"/>	✓			
C3M		<input type="checkbox"/>	✓			
C3H		<input type="checkbox"/>	✓			
C4M		<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\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
Modified: 7/18/2019 11:18:05 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

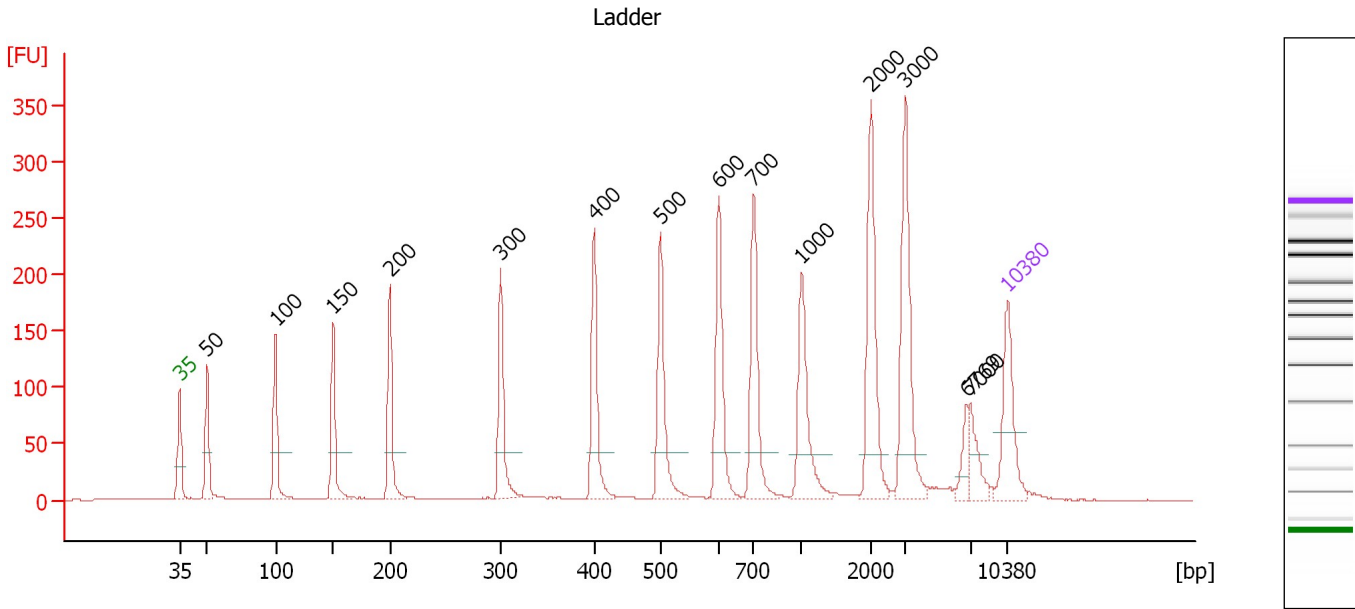
**Ladder**

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\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

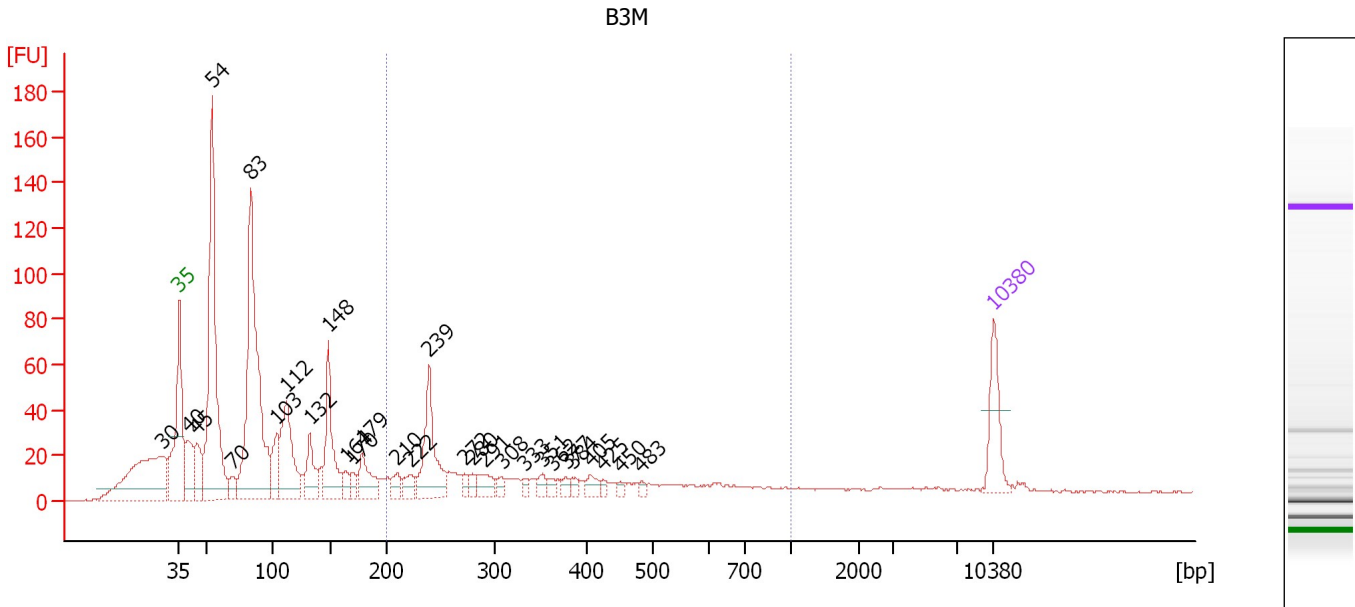
**Peak table for Ladder**

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	45.34
3	100	150.00	2,272.7	Ladder Peak	51.11
4	150	150.00	1,515.2	Ladder Peak	55.98
5	200	150.00	1,136.4	Ladder Peak	60.80
6	300	150.00	757.6	Ladder Peak	70.13
7	400	150.00	568.2	Ladder Peak	78.07
8	500	150.00	454.5	Ladder Peak	83.66
9	600	150.00	378.8	Ladder Peak	88.57
10	700	150.00	324.7	Ladder Peak	91.54
11	1,000	150.00	227.3	Ladder Peak	95.60
12	2,000	150.00	113.6	Ladder Peak	101.46
13	3,000	150.00	75.8	Ladder Peak	104.39
14	6,769	0.00	0.0		109.53
15	7,000	150.00	32.5	Ladder Peak	109.84
16	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : B3M**

Number of peaks found: 29                      Corr. Area 1: 404.9  
 Noise: 0.4

**Peak table for sample 1 : B3M**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	30	0.00	0.0		41.49
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	124.51	4,753.2		43.73
4	45	101.09	3,406.2		44.56
5	54	688.58	19,212.7		45.84
6	70	33.55	728.4		47.63
7	83	749.63	13,703.0		49.14
8	103	93.72	1,381.7		51.38
9	112	238.91	3,240.2		52.25
10	132	94.89	1,089.6		54.22
11	148	194.21	1,982.7		55.83
12	164	30.71	283.6		57.34
13	170	26.23	233.5		57.93
14	179	90.35	765.6		58.76
15	210	29.89	215.6		61.74
16	222	33.97	231.5		62.88
17	239	191.08	1,209.0		64.49
18	272	18.31	102.0		67.51
19	280	17.54	95.0		68.24
20	291	41.01	213.9		69.25
21	308	17.40	85.6		70.76
22	333	11.91	54.1		72.78
23	351	19.18	82.8		74.20
24	362	15.05	63.0		75.07
25	377	13.64	54.8		76.26

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 1 : B3M

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	384	14.98	59.2		76.76
27	405	23.24	86.9		78.37
28	425	8.83	31.5		79.47
29	450	9.30	31.3		80.89
30	483	7.24	22.7		82.72
31	10,380	75.00	10.9	Upper Marker	113.00

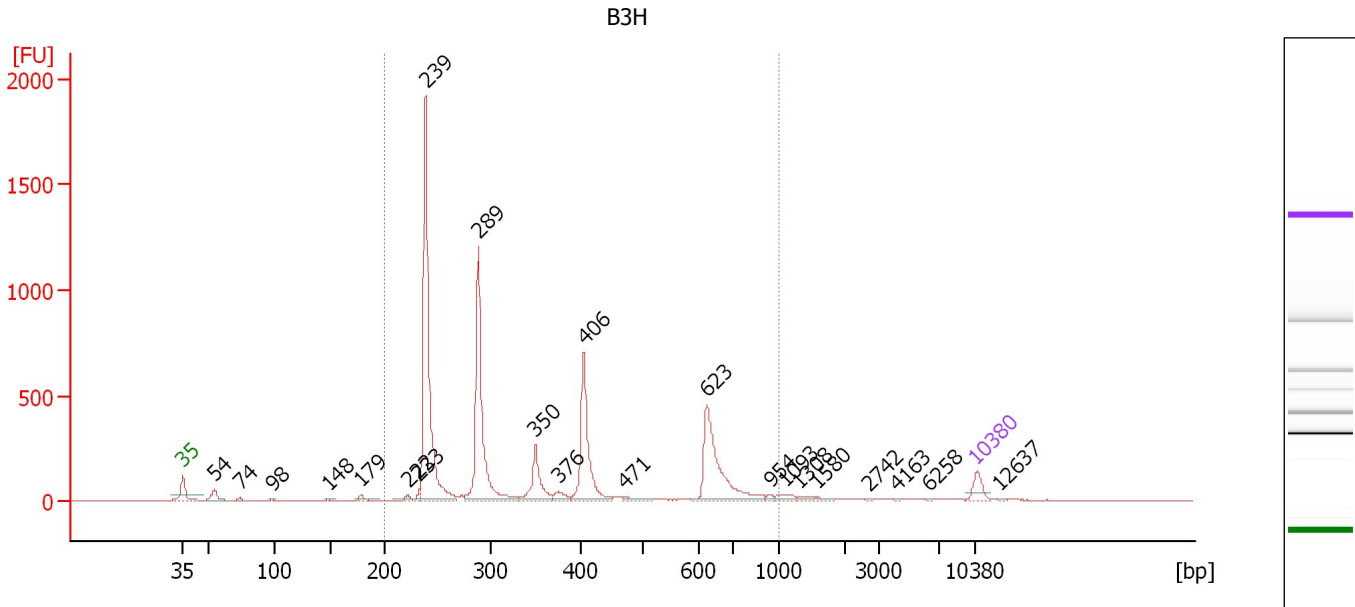
#### Region table for sample 1 : B3M

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	372	733.80	404.9	3,652.1	23	43.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : B3H**

Number of peaks found: 22                      Corr. Area 1: 4,930.2  
 Noise: 0.6

**Peak table for sample 2 : B3H**

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	54	115.11	3,252.0		45.76
3	74	19.25	396.7		48.06
4	98	7.23	112.0		50.87
5	148	8.37	85.7		55.78
6	179	34.38	291.8		58.73
7	222	29.13	198.9		62.85
8	233	32.32	210.2		63.88
9	239	1,912.06	12,120.6		64.44
10	289	1,222.21	6,414.4		69.08
11	350	301.76	1,304.6		74.14
12	376	60.41	243.5		76.15
13	406	633.27	2,363.8		78.40
14	471	31.40	101.0		82.05
15	623	662.95	1,611.7		89.26
16	954	15.88	25.2		94.97
17	1,093	37.02	51.3		96.14
18	1,308	21.72	25.1		97.41
19	1,580	12.16	11.7		99.00
20	2,742	2.27	1.3		103.64
21	4,163	1.73	0.6		105.98
22	6,258	1.68	0.4		108.83
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,637	0.00	0.0		115.11

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

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**Electropherogram Summary Continued ...**

... Region table for sample 2 : B3H

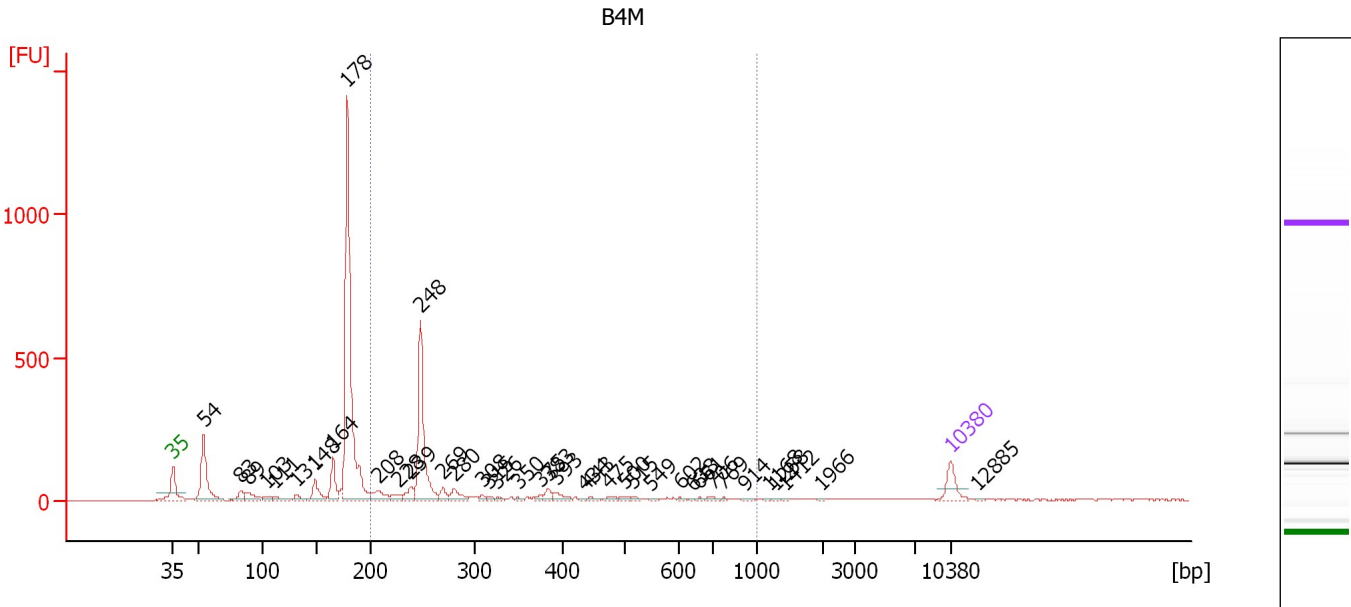
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	380	4,925.51	4,930.2	24,070.5	 94	43.5



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : B4M**

Number of peaks found: 39                      Corr. Area 1: 1,216.0  
 Noise: 1.1

**Peak table for sample 3 : B4M**

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	54	450.78	12,725.6		45.77
3	83	70.66	1,295.9		49.11
4	89	80.77	1,377.8		49.82
5	103	29.49	432.1		51.45
6	111	35.30	480.7		52.21
7	131	41.13	474.4		54.17
8	148	123.60	1,269.4		55.74
9	164	159.72	1,472.7		57.36
10	178	1,694.53	14,410.0		58.70
11	208	97.86	712.5		61.56
12	228	41.56	276.7		63.37
13	239	73.55	466.7		64.42
14	248	622.75	3,804.5		65.28
15	269	48.04	270.1		67.29
16	280	70.57	381.6		68.29
17	308	17.44	85.8		70.77
18	315	11.18	53.8		71.34
19	326	10.87	50.5		72.20
20	350	10.18	44.1		74.06
21	375	17.95	72.6		76.07
22	383	37.23	147.2		76.74
23	393	37.16	143.3		77.50
24	434	6.42	22.4		79.98
25	443	13.02	44.5		80.46

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
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**Electropherogram Summary Continued ...**

**... Peak table for sample 3 : B4M**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	475	14.99	47.8		82.27
27	500	13.13	39.8		83.65
28	515	9.27	27.3		84.37
29	549	7.75	21.4		86.04
30	602	6.97	17.6		88.62
31	638	4.79	11.4		89.71
32	661	6.80	15.6		90.38
33	706	12.21	26.2		91.62
34	769	4.40	8.7		92.48
35	914	7.73	12.8		94.44
36	1,168	4.03	5.2		96.59
37	1,258	3.79	4.6		97.11
38	1,412	2.66	2.8		98.02
39	1,966	2.09	1.6		101.26
40	10,380	75.00	10.9	Upper Marker	113.00
41	12,885	0.00	0.0		115.34

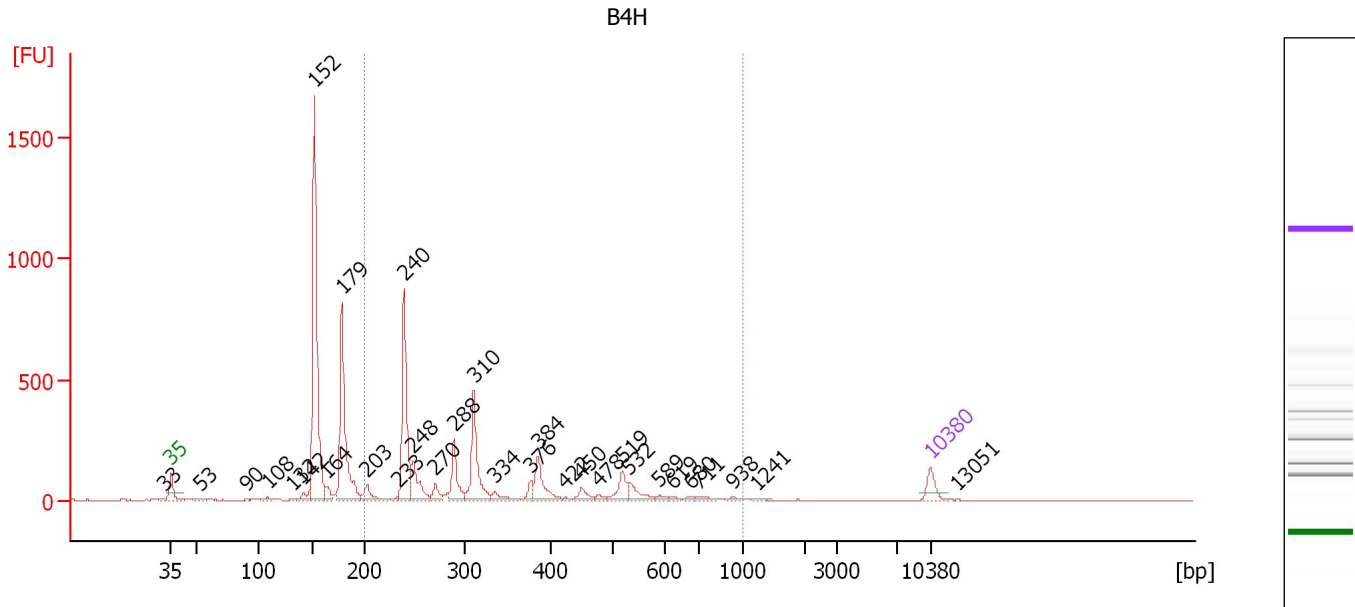
**Region table for sample 3 : B4M**

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	325	1,282.05	1,216.0	6,996.4	35	44.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : B4H**

Number of peaks found: 31                      Corr. Area 1: 2,504.4  
 Noise: 1.1

**Peak table for sample 4 : B4H**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.41
2	35	125.00	5,411.3	Lower Marker	43.00
3	53	19.31	556.6		45.64
4	90	5.30	88.9		49.99
5	108	17.66	247.7		51.90
6	132	6.62	76.1		54.19
7	142	55.23	590.6		55.17
8	152	1,848.72	18,398.0		56.20
9	164	65.08	599.7		57.37
10	179	1,005.86	8,533.1		58.74
11	203	107.32	800.9		61.09
12	233	18.05	117.2		63.92
13	240	766.69	4,846.3		64.51
14	248	237.03	1,447.6		65.29
15	270	73.15	410.3		67.34
16	288	236.78	1,243.8		69.05
17	310	443.19	2,167.5		70.91
18	334	66.03	299.7		72.82
19	376	59.70	240.7		76.14
20	384	207.47	817.9		76.83
21	422	9.99	35.8		79.32
22	450	61.87	208.5		80.84
23	478	24.03	76.2		82.40
24	519	125.57	366.4		84.60
25	532	94.95	270.4		85.23

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : B4H

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	589	21.55	55.5		88.02
27	619	13.18	32.2		89.15
28	680	14.40	32.1		90.95
29	711	27.20	58.0		91.69
30	938	13.26	21.4		94.77
31	1,241	8.85	10.8		97.02
32	10,380	75.00	10.9	Upper Marker	113.00
33	13,051	0.00	0.0		115.49

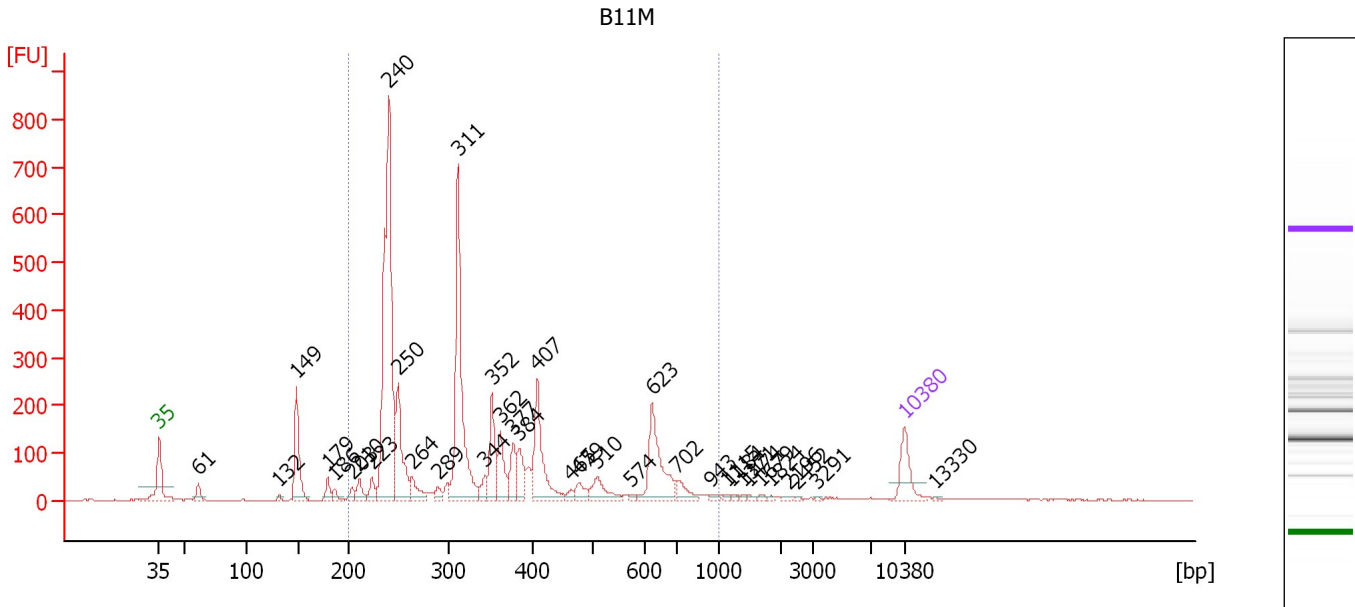
#### Region table for sample 4 : B4H

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	349	2,644.01	2,504.4	13,353.0	 50	38.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : B11M**

Number of peaks found: 36                      Corr. Area 1: 3,732.7  
 Noise: 1.0

**Peak table for sample 5 : B11M**

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	61	40.38	997.0		46.66
3	132	6.54	74.9		54.27
4	149	216.29	2,201.8		55.87
5	179	36.82	310.9		58.82
6	186	22.18	180.5		59.47
7	203	23.54	175.8		61.08
8	210	42.24	304.1		61.78
9	223	37.64	255.4		62.98
10	240	982.69	6,191.5		64.58
11	250	243.39	1,477.4		65.43
12	264	58.51	336.3		66.73
13	289	23.07	120.8		69.14
14	311	578.26	2,813.5		71.04
15	344	36.51	161.0		73.59
16	352	137.29	591.3		74.24
17	362	105.43	441.4		75.05
18	377	76.14	305.9		76.25
19	384	74.20	292.8		76.80
20	407	216.86	807.6		78.45
21	465	13.41	43.7		81.71
22	479	35.07	111.0		82.46
23	510	65.97	195.9		84.16
24	574	6.65	17.5		87.31
25	623	206.77	502.5		89.27

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

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 Modified: 7/18/2019 11:18:05 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 :

#### B11M

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	702	39.77	85.9		91.57
27	943	9.57	15.4		94.82
28	1,115	4.44	6.0		96.28
29	1,184	4.90	6.3		96.68
30	1,371	4.07	4.5		97.78
31	1,474	4.98	5.1		98.38
32	1,679	4.68	4.2		99.58
33	1,824	3.50	2.9		100.43
34	2,196	3.60	2.5		102.03
35	2,452	1.75	1.1		102.79
36	3,291	2.20	1.0		104.79
37	10,380	75.00	10.9	Upper Marker	113.00
38	13,330	0.00	0.0		115.75

#### Region table for sample 5 :

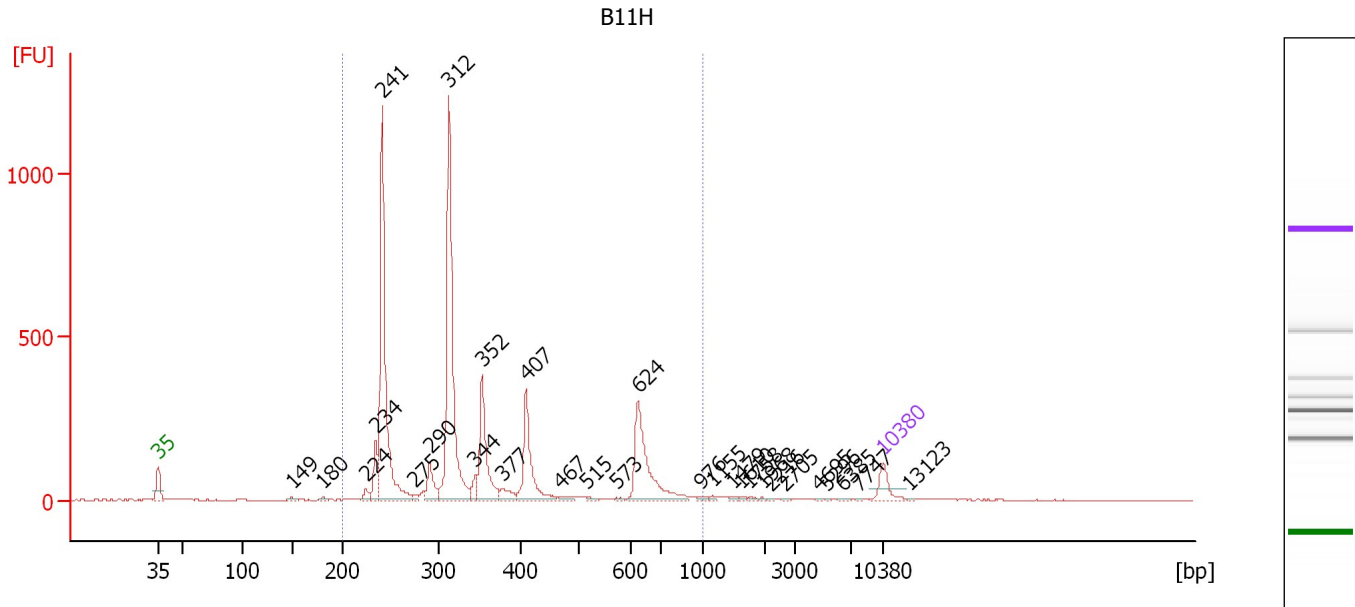
#### B11M

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	361	3,114.16	3,732.7	15,515.8	89	40.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : B11H**

Number of peaks found: 29                      Corr. Area 1: 4,077.4  
 Noise: 1.2

**Peak table for sample 6 : B11H**

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	149	9.92	100.7		55.90
3	180	10.18	85.7		58.87
4	224	37.21	252.0		63.02
5	234	146.32	946.6		63.99
6	241	1,297.04	8,161.8		64.61
7	275	19.35	106.7		67.78
8	290	128.28	669.8		69.22
9	312	1,240.53	6,030.5		71.06
10	344	57.06	251.4		73.62
11	352	387.81	1,670.7		74.24
12	377	57.84	232.5		76.23
13	407	348.27	1,294.9		78.49
14	467	20.38	66.1		81.81
15	515	10.12	29.8		84.38
16	573	7.58	20.0		87.24
17	624	425.52	1,032.8		89.29
18	976	11.18	17.3		95.28
19	1,155	7.03	9.2		96.51
20	1,479	7.21	7.4		98.41
21	1,610	6.13	5.8		99.17
22	1,758	5.85	5.0		100.04
23	1,968	3.86	3.0		101.27
24	2,216	3.67	2.5		102.09
25	2,705	3.95	2.2		103.53

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 6 : B11H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,695	3.14	1.0		106.70
27	5,296	2.64	0.8		107.52
28	6,385	4.44	1.1		109.01
29	7,747	2.06	0.4		110.54
30	10,380	75.00	10.9	Upper Marker	113.00
31	13,123	0.00	0.0		115.56

#### Region table for sample 6 : B11H

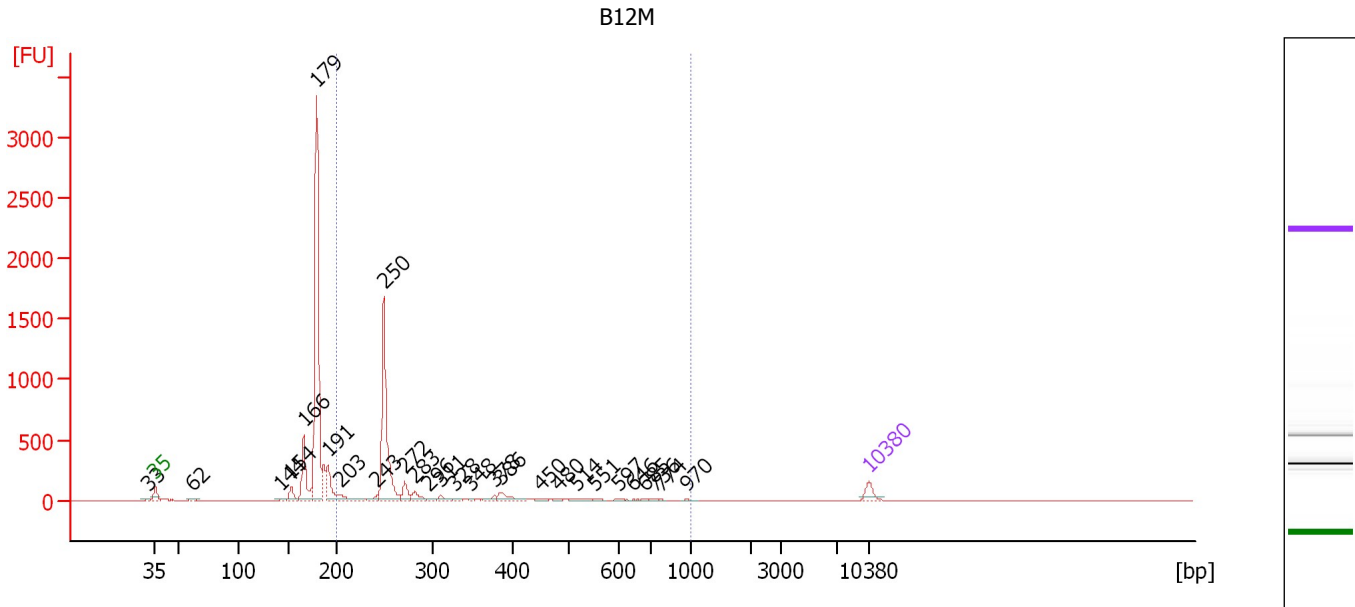
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	367	4,251.91	4,077.4	20,673.7	95	39.8



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : B12M**

Number of peaks found: 28                      Corr. Area 1: 2,203.1  
 Noise: 1.1

**Peak table for sample 7 : B12M**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.38
2	35	125.00	5,411.3	Lower Marker	43.00
3	62	21.75	534.0		46.70
4	144	9.43	99.3		55.39
5	154	112.78	1,112.9		56.32
6	166	504.55	4,591.5		57.57
7	179	2,738.48	23,122.4		58.82
8	191	283.31	2,243.7		59.97
9	203	96.62	720.1		61.11
10	243	47.40	295.6		64.81
11	250	1,458.99	8,856.9		65.43
12	272	130.12	725.1		67.51
13	283	79.65	427.2		68.50
14	296	23.39	119.8		69.75
15	311	40.72	198.4		71.00
16	328	10.14	46.8		72.35
17	348	5.44	23.7		73.97
18	378	29.80	119.5		76.31
19	386	95.32	374.5		76.93
20	450	9.73	32.8		80.84
21	480	9.27	29.2		82.55
22	514	22.91	67.6		84.32
23	551	7.23	19.9		86.14
24	597	9.79	24.8		88.43
25	646	4.52	10.6		89.94

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

**Electropherogram Summary Continued ...**

**... Peak table for sample 7 : B12M**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	685	5.00	11.1		91.09
27	736	6.32	13.0		92.03
28	774	4.79	9.4		92.55
29	970	6.90	10.8		95.20
30	10,380	75.00	10.9	Upper Marker	113.00

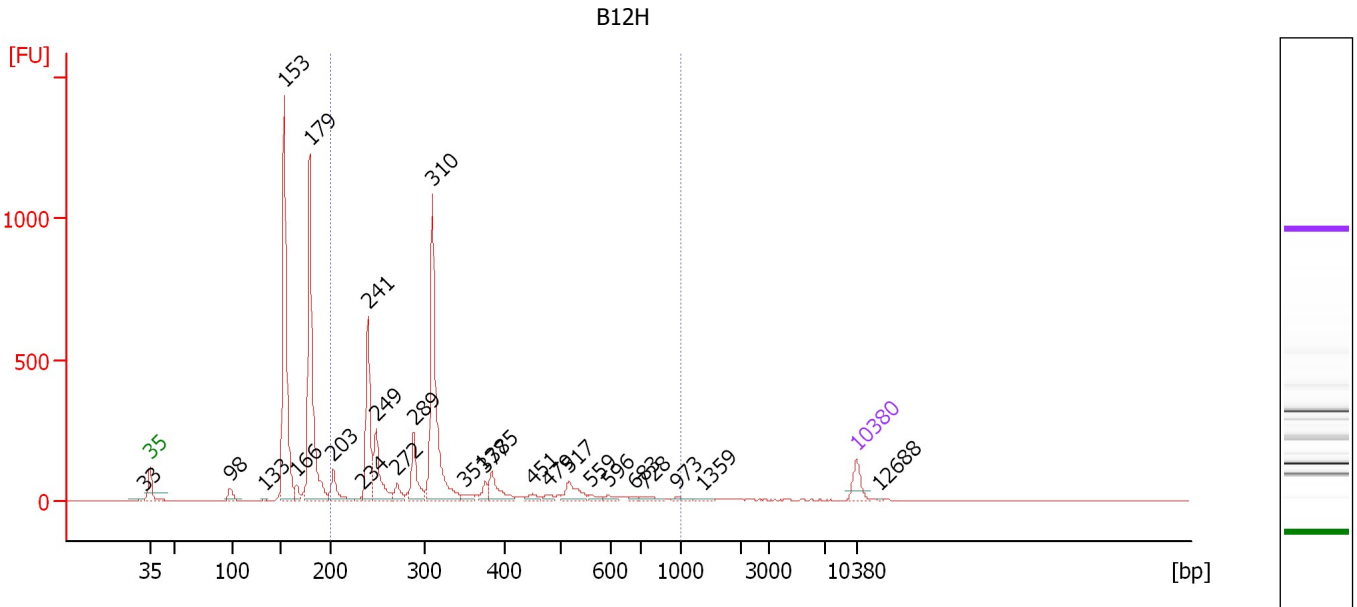
**Region table for sample 7 : B12M**

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	295	2,160.78	2,203.1	12,196.8	38	37.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : B12H**

Number of peaks found: 26                      Corr. Area 1: 2,885.9  
 Noise: 0.6

**Peak table for sample 8 : B12H**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.37
2	35	125.00	5,411.3	Lower Marker	43.00
3	98	70.89	1,090.9		50.94
4	133	8.14	92.9		54.30
5	153	1,435.45	14,191.0		56.30
6	166	55.87	510.6		57.50
7	179	1,277.49	10,788.6		58.82
8	203	148.91	1,108.7		61.13
9	234	14.50	93.9		63.97
10	241	512.76	3,228.1		64.60
11	249	297.06	1,806.7		65.39
12	272	68.89	384.3		67.49
13	289	218.32	1,144.2		69.12
14	310	990.28	4,834.2		70.96
15	351	36.84	158.8		74.22
16	377	51.17	205.9		76.21
17	385	135.00	531.9		76.84
18	451	34.13	114.8		80.89
19	479	24.26	76.8		82.47
20	517	107.23	313.9		84.52
21	559	21.86	59.2		86.57
22	596	23.77	60.5		88.35
23	683	11.33	25.1		91.03
24	728	28.79	59.9		91.93
25	973	15.21	23.7		95.24

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
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### Electropherogram Summary Continued ...

#### ... Peak table for sample 8 : B12H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,359	9.54	10.6		97.71
27	10,380	75.00	10.9	Upper Marker	113.00
28	12,688	0.00	0.0		115.15

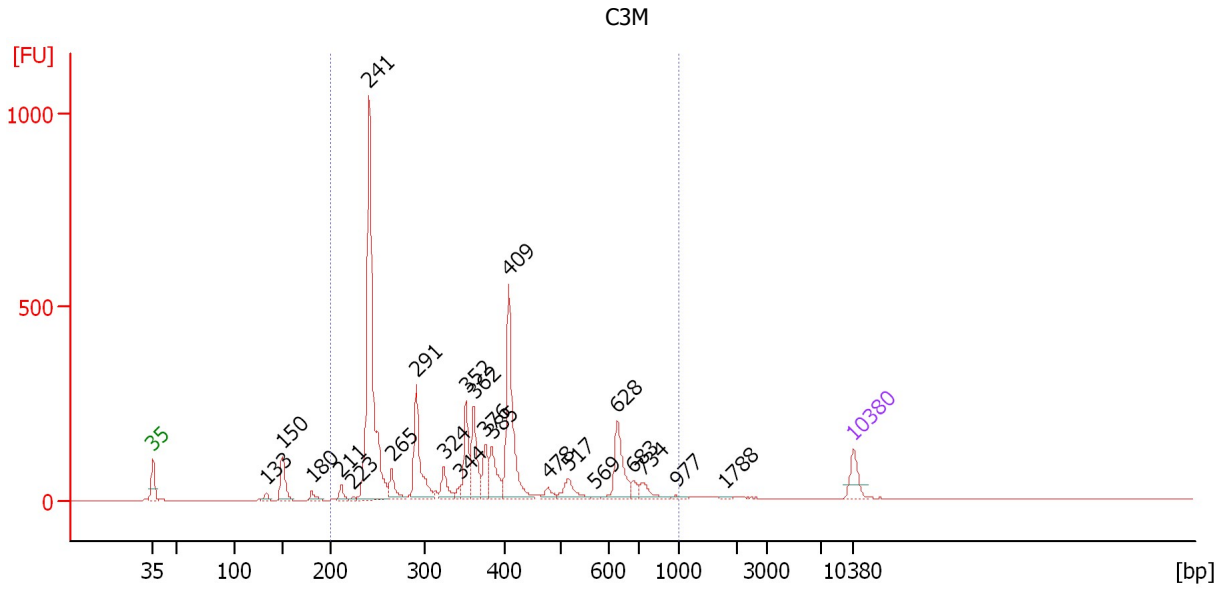
#### Region table for sample 8 : B12H

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	337	2,805.15	2,885.9	14,164.9	52	36.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : C3M**

Number of peaks found: 23                      Corr. Area 1: 3,411.9  
 Noise: 0.8

**Peak table for sample 9 : C3M**

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	23.18	264.7		54.30
3	150	161.60	1,637.0		55.94
4	180	29.60	249.4		58.86
5	211	43.66	313.6		61.83
6	223	8.21	55.7		62.99
7	241	1,400.55	8,802.5		64.64
8	265	100.82	576.5		66.86
9	291	355.64	1,851.2		69.30
10	324	97.26	454.4		72.06
11	344	27.88	122.7		73.65
12	352	201.11	864.8		74.29
13	362	219.92	919.5		75.08
14	376	120.87	486.5		76.20
15	385	169.43	666.6		76.89
16	409	542.67	2,009.2		78.58
17	478	37.32	118.2		82.45
18	517	90.86	266.5		84.47
19	569	6.54	17.4		87.07
20	628	217.80	525.5		89.40
21	683	35.99	79.8		91.05
22	734	59.49	122.9		92.00
23	977	11.10	17.2		95.29
24	1,788	6.62	5.6		100.22
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
Modified: 7/18/2019 11:18:05 AM

**Electropherogram Summary Continued ...**

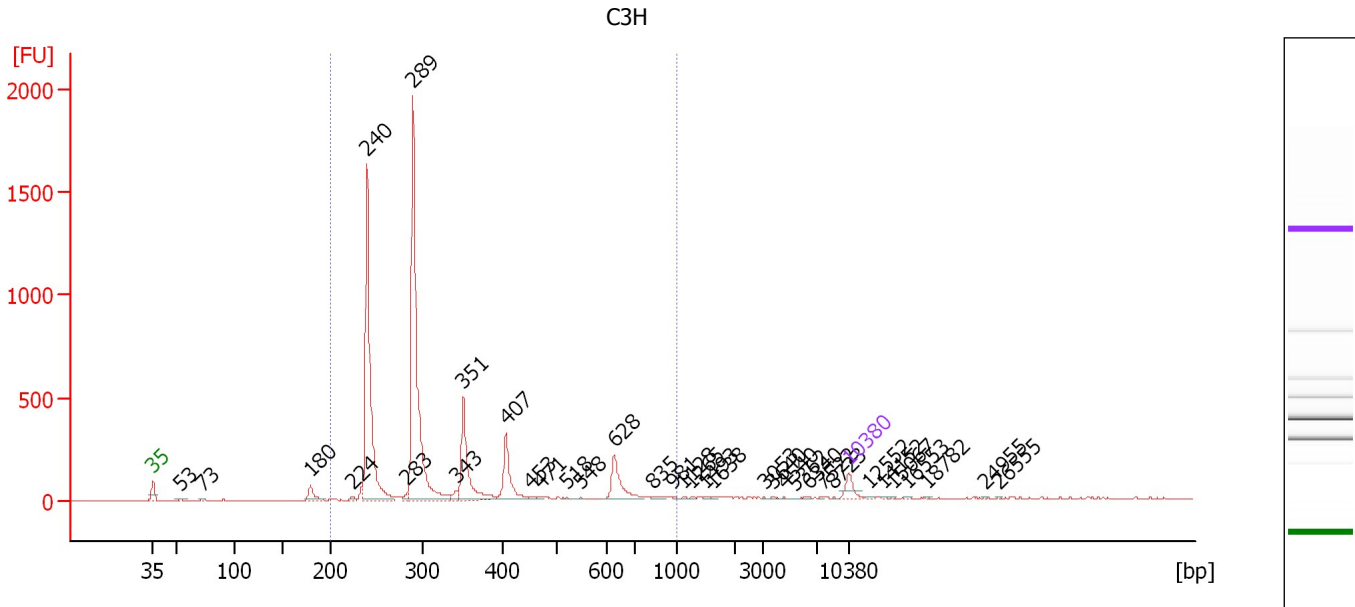
... Region table for sample 9 : C3M

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	375	3,867.07	3,411.9	18,498.8	 92	38.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : C3H**

Number of peaks found: 35                      Corr. Area 1: 4,610.5  
 Noise: 1.3

**Peak table for sample 10 : C3H**

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	53	18.91	537.9		45.72
3	73	8.79	182.0		48.02
4	180	102.76	866.4		58.85
5	224	19.95	135.2		63.01
6	240	1,802.40	11,369.4		64.55
7	283	35.38	189.7		68.50
8	289	2,140.99	11,210.1		69.14
9	343	39.14	172.7		73.57
10	351	558.36	2,407.5		74.21
11	407	328.86	1,223.1		78.48
12	453	11.69	39.1		81.04
13	471	11.92	38.3		82.05
14	518	8.56	25.0		84.56
15	548	9.52	26.3		86.00
16	628	251.43	606.1		89.42
17	835	15.20	27.6		93.37
18	981	5.58	8.6		95.34
19	1,128	5.44	7.3		96.35
20	1,265	5.40	6.5		97.15
21	1,493	5.51	5.6		98.49
22	1,638	6.00	5.6		99.34
23	3,053	3.32	1.6		104.46
24	3,640	5.04	2.1		105.26
25	4,540	2.88	1.0		106.49

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 10 : C3H

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	5,362	3.98	1.1		107.61
27	6,340	6.18	1.5		108.95
28	7,522	3.05	0.6		110.33
29	8,723	2.72	0.5		111.45
30	10,380	75.00	10.9	Upper Marker	113.00
31	12,552	0.00	0.0		115.03
32	14,152	0.00	0.0		116.52
33	15,067	0.00	0.0		117.38
34	16,553	0.00	0.0		118.76
35	18,782	0.00	0.0		120.84
36	24,955	0.00	0.0		126.61
37	26,555	0.00	0.0		128.10

#### Region table for sample 10 : C3H

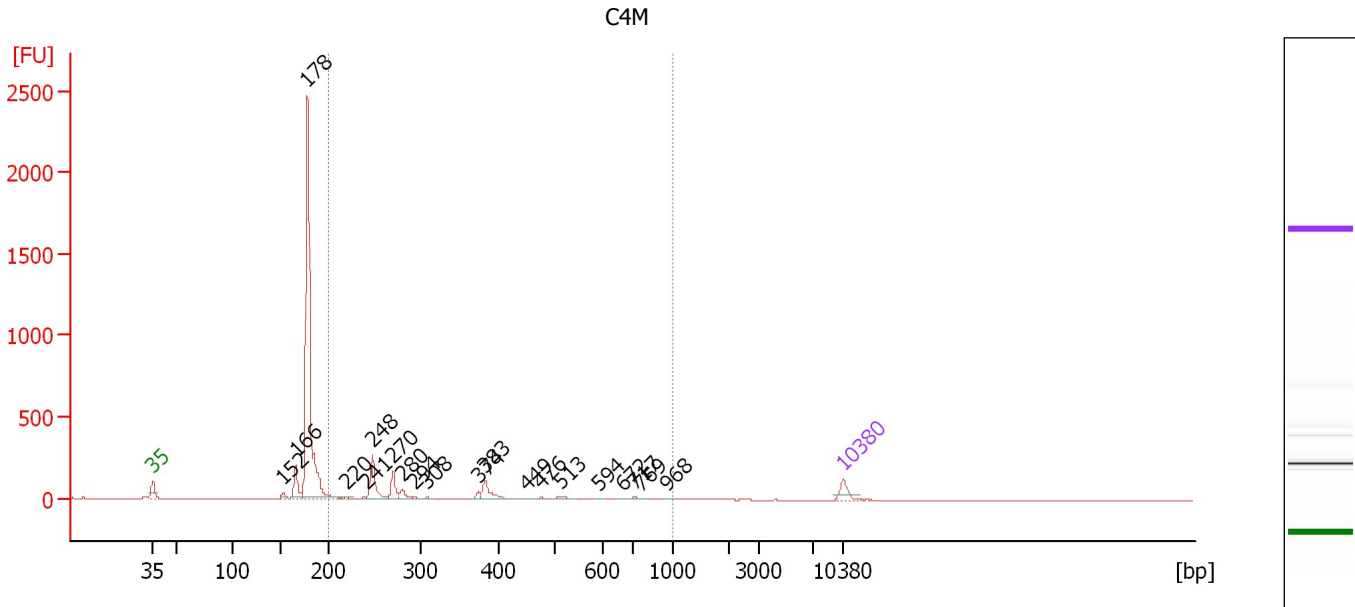
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	330	5,319.45	4,610.5	27,191.4	94	36.1



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : C4M**

Number of peaks found: 20                      Corr. Area 1: 759.7  
 Noise: 1.2


**Peak table for sample 11 : C4M**

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	152	33.51	333.1		56.22
3	166	228.69	2,089.9		57.50
4	178	2,824.36	24,034.6		58.69
5	220	9.00	62.0		62.66
6	241	8.93	56.2		64.60
7	248	280.30	1,711.6		65.29
8	270	150.64	845.3		67.34
9	280	67.96	367.2		68.30
10	294	8.85	45.6		69.54
11	308	8.83	43.4		70.77
12	374	31.66	128.3		75.99
13	383	134.45	532.5		76.68
14	449	4.51	15.2		80.82
15	476	10.68	34.0		82.32
16	513	23.90	70.5		84.31
17	594	7.19	18.3		88.29
18	672	5.25	11.8		90.71
19	717	12.22	25.8		91.78
20	769	5.70	11.2		92.48
21	968	6.94	10.9		95.16
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
Modified: 7/18/2019 11:18:05 AM

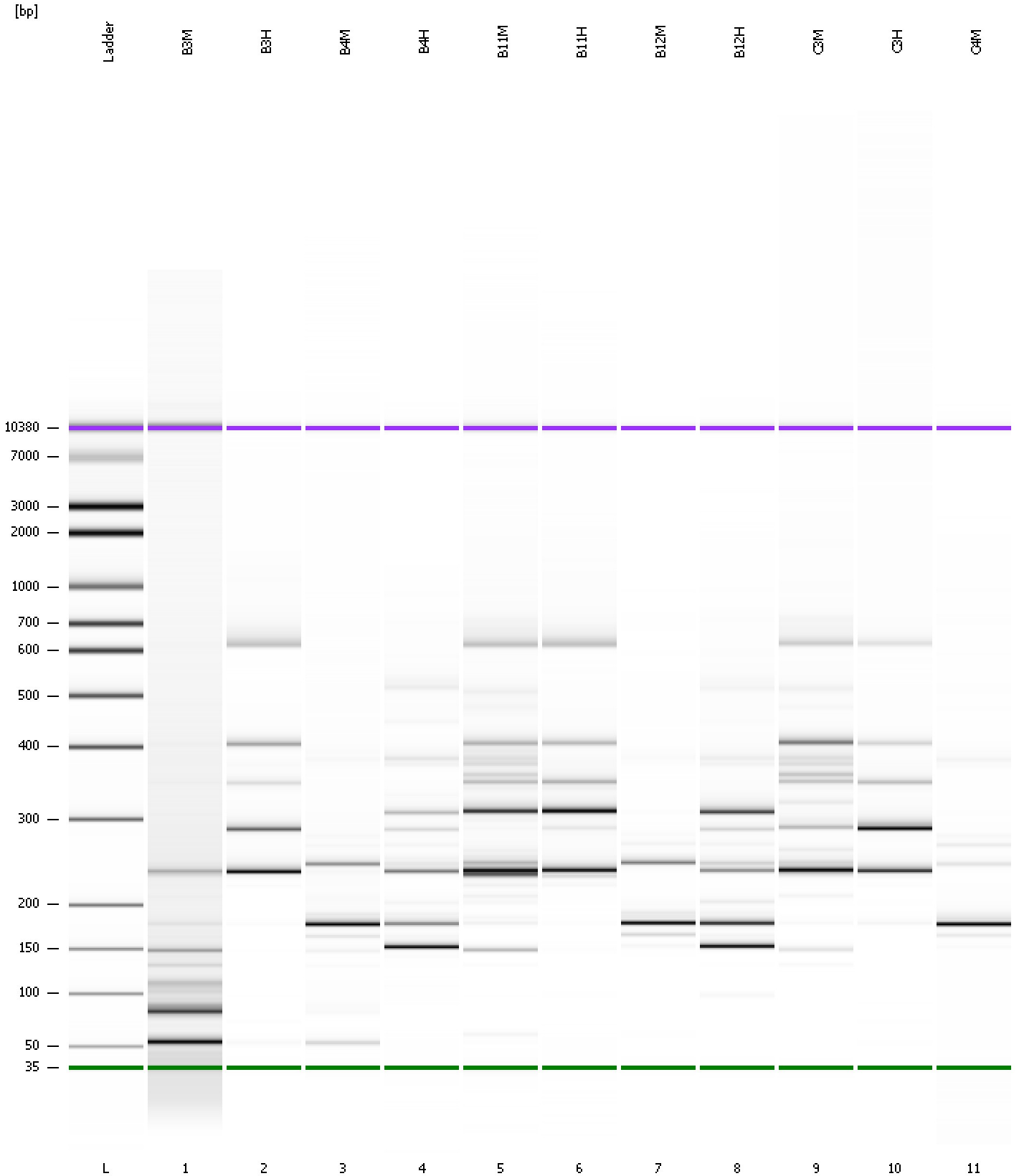
**Electropherogram Summary Continued ...****... Region table for sample 11 : C4M**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	349	840.76	759.7	4,291.4	 24	42.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
Modified: 7/18/2019 11:18:05 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-18\2019-07-18\_001.xad

Created: 7/18/2019 10:36:41 AM  
 Modified: 7/18/2019 11:18:05 AM

**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		7/18/2019 11:18:00 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\2019-07-18\2019-07-18_001.xad)		Instrument	Run		7/18/2019 10:36:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/18/2019 10:36:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/18/2019 10:36:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/18/2019 10:36:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/18/2019 10:36:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/18/2019 10:36:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/18/2019 10:36:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1