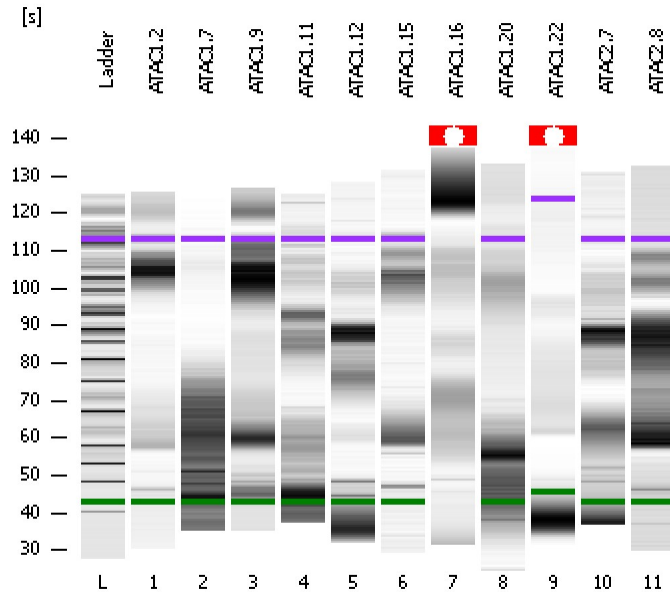


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

Created: 3/18/2016 10:18:34 AM  
Modified: 3/18/2016 11:04:41 AM

### Electrophoresis File Run Summary



#### Instrument Information:

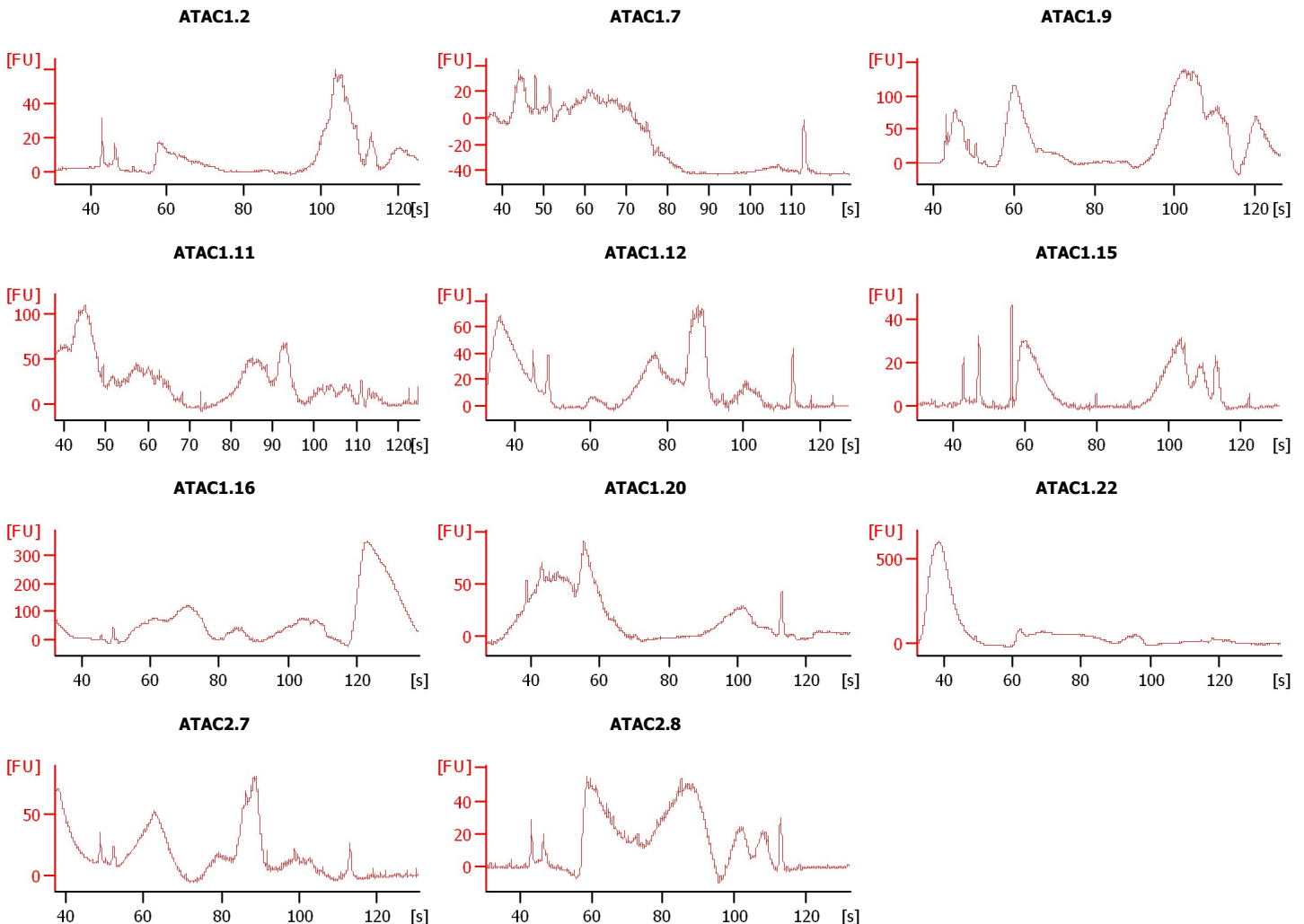
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

Created: 3/18/2016 10:18:34 AM  
 Modified: 3/18/2016 11:04:41 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ATAC1.2		<input type="checkbox"/>	✓			
ATAC1.7		<input type="checkbox"/>	✓			
ATAC1.9		<input type="checkbox"/>	✓			
ATAC1.11		<input type="checkbox"/>	✓			
ATAC1.12		<input type="checkbox"/>	✓			
ATAC1.15		<input type="checkbox"/>	✓			
ATAC1.16		<input type="checkbox"/>	✓			
ATAC1.20		<input type="checkbox"/>	✓			
ATAC1.22		<input type="checkbox"/>	✓			
ATAC2.7		<input type="checkbox"/>	✓			
ATAC2.8		<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\2016-03-18\2016-03-18\_001.xad

Created: 3/18/2016 10:18:34 AM  
Modified: 3/18/2016 11:04:41 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

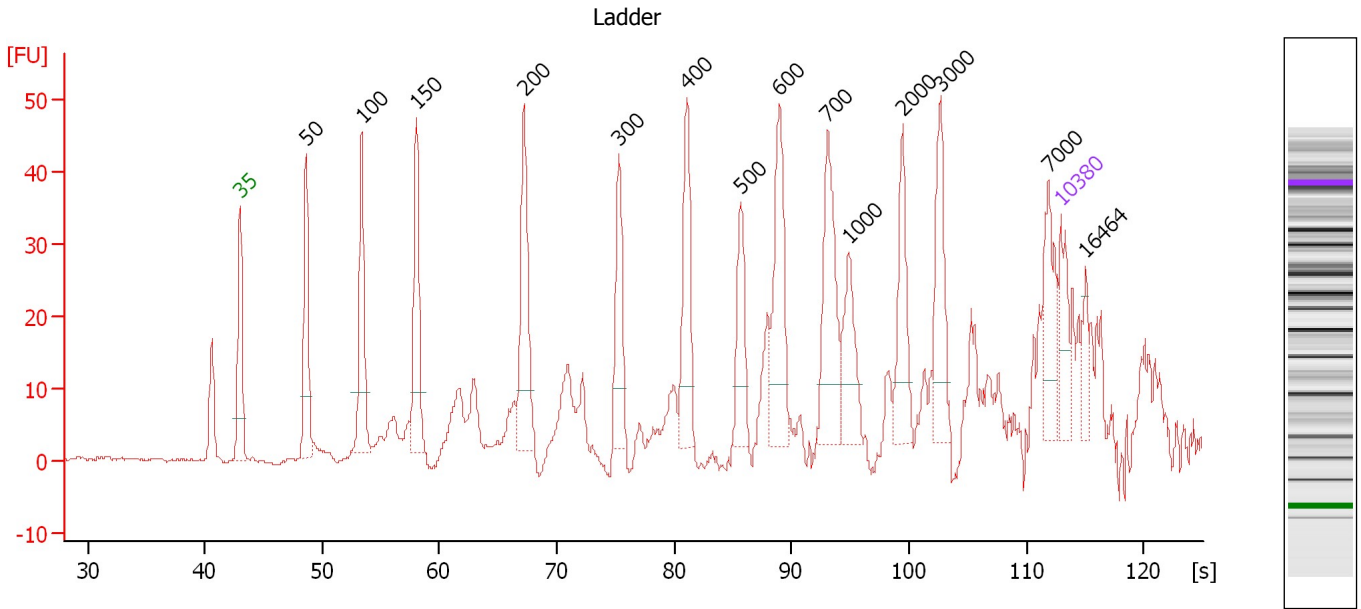
**Ladder**

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\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

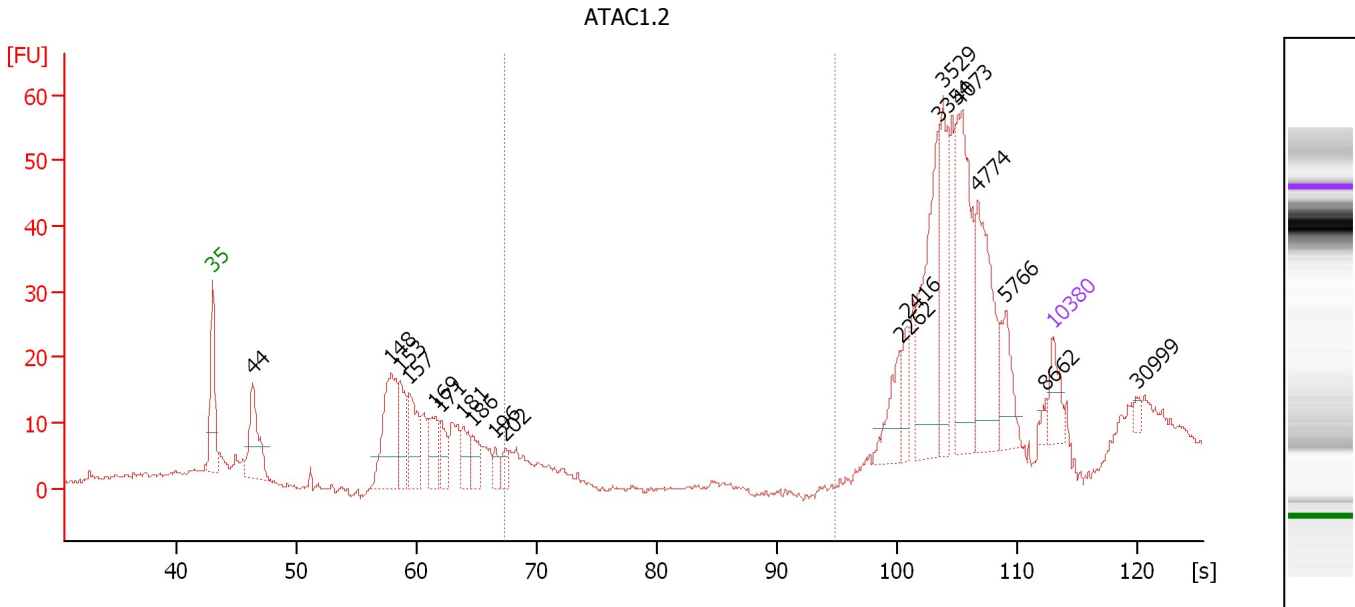
**Peak table for Ladder**

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	48.63
3	100	150.00	2,272.7	Ladder Peak	53.39
4	150	150.00	1,515.2	Ladder Peak	58.05
5	200	150.00	1,136.4	Ladder Peak	67.25
6	300	150.00	757.6	Ladder Peak	75.30
7	400	150.00	568.2	Ladder Peak	81.11
8	500	150.00	454.5	Ladder Peak	85.64
9	600	150.00	378.8	Ladder Peak	88.98
10	700	150.00	324.7	Ladder Peak	93.05
11	1,000	150.00	227.3	Ladder Peak	94.84
12	2,000	150.00	113.6	Ladder Peak	99.46
13	3,000	150.00	75.8	Ladder Peak	102.66
14	7,000	150.00	32.5	Ladder Peak	111.86
15	10,380	75.00	10.9	Upper Marker	113.00
16	16,464	0.00	0.0		115.06

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : ATAC1.2**

Number of peaks found: 19      Corr. Area 1: 6.2  
 Noise: 0.4

**Peak table for sample 1 : ATAC1.2**

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	44	321.34	11,080.1		46.35
3	148	439.01	4,485.0		57.89
4	153	198.12	1,961.6		58.61
5	157	241.32	2,326.4		59.37
6	169	152.60	1,369.4		61.52
7	171	109.23	966.3		61.96
8	181	117.18	978.3		63.84
9	186	96.29	784.9		64.65
10	196	46.78	361.4		66.53
11	202	61.21	460.0		67.38
12	2,262	118.79	79.6		100.30
13	2,416	67.69	42.5		100.79
14	3,354	378.12	170.8		103.47
15	3,529	236.57	101.6		103.88
16	4,073	406.65	151.3		105.13
17	4,774	321.31	102.0		106.74
18	5,766	123.18	32.4		109.02
19	8,662	17.57	3.1		112.42
20	10,380	75.00	10.9	Upper Marker	113.00
21	30,999	0.00	0.0		119.98

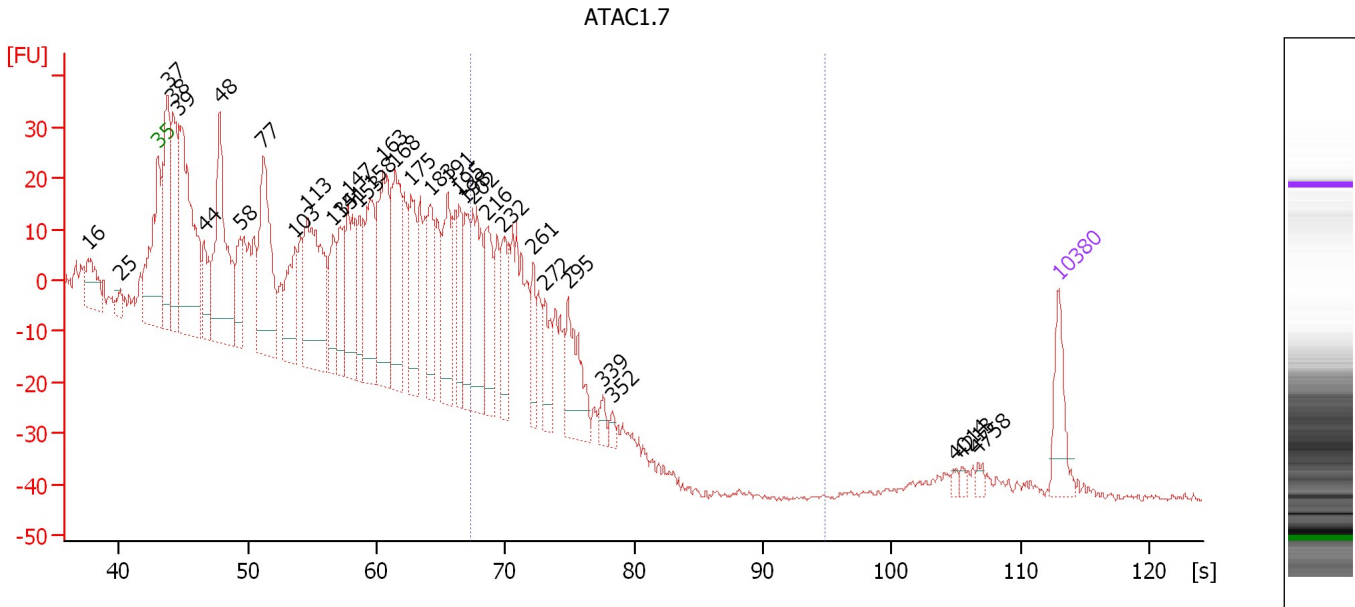
**Region table for sample 1 : ATAC1.2**

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	212	6.2	414.6	57.88	1	4.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : ATAC1.7**

Number of peaks found: 34      Corr. Area 1: 240.2  
 Noise: 0.6

**Peak table for sample 2 : ATAC1.7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	16	0.00	0.0		37.54
2	25	0.00	0.0		40.08
3	35	125.00	5,411.3	Lower Marker	43.00
4	37	360.69	14,769.8		43.75
5	38	295.13	11,698.2		44.21
6	39	643.10	24,700.8		44.67
7	44	134.02	4,568.1		46.55
8	48	495.43	15,708.3		47.80
9	58	115.75	3,027.1		49.38
10	77	419.83	8,284.3		51.18
11	103	195.04	2,864.9		53.68
12	113	454.56	6,096.0		54.60
13	135	138.90	1,560.3		56.64
14	141	154.94	1,668.6		57.18
15	147	232.53	2,397.6		57.77
16	153	141.15	1,395.9		58.64
17	158	266.09	2,555.7		59.48
18	163	357.21	3,311.8		60.52
19	168	273.37	2,462.8		61.40
20	175	205.78	1,779.4		62.69
21	183	140.87	1,165.3		64.15
22	191	210.18	1,670.5		65.53
23	195	138.03	1,070.3		66.40
24	198	134.53	1,028.8		66.90
25	202	248.45	1,859.4		67.45

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : ATAC1.7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	216	173.14	1,214.9		68.53
27	232	147.67	964.5		69.82
28	261	84.29	489.3		72.16
29	272	99.85	555.4		73.08
30	295	177.91	914.8		74.87
31	339	27.67	123.8		77.54
32	352	16.96	73.0		78.33
33	4,014	7.24	2.7		104.99
34	4,213	6.84	2.5		105.45
35	4,758	10.27	3.3		106.70
36	10,380	75.00	10.9	Upper Marker	113.00

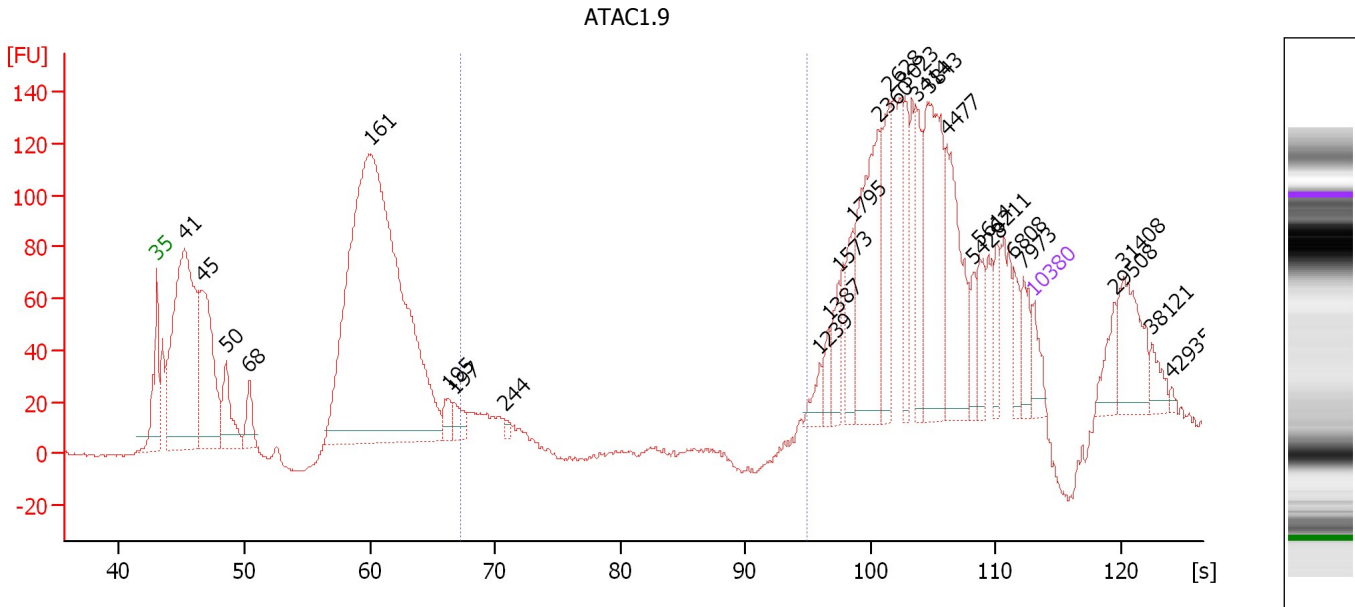
**Region table for sample 2 : ATAC1.7**

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	241	240.2	5,503.9	875.49	18	11.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : ATAC1.9**

Number of peaks found: 27                      Corr. Area 1: 80.2  
 Noise: 0.8

**Peak table for sample 3 : ATAC1.9**

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	41	2,173.82	80,448.2		45.23
3	45	995.95	33,836.2		46.60
4	50	314.81	9,589.7		48.53
5	68	164.19	3,640.1		50.37
6	161	4,731.29	44,483.4		60.10
7	195	84.83	659.3		66.32
8	197	101.22	777.4		66.75
9	244	22.36	138.9		70.78
10	1,239	58.77	71.9		95.94
11	1,387	60.06	65.6		96.63
12	1,573	108.99	105.0		97.48
13	1,795	133.38	112.6		98.51
14	2,360	534.94	343.4		100.61
15	2,628	264.45	152.5		101.47
16	3,023	175.70	88.1		102.71
17	3,414	166.68	74.0		103.61
18	3,843	524.96	207.0		104.60
19	4,477	398.12	134.7		106.06
20	5,428	75.48	21.1		108.24
21	5,614	114.08	30.8		108.67
22	6,211	94.31	23.0		110.04
23	6,808	83.33	18.5		111.41
24	7,973	98.07	18.6		112.19
25	10,380	75.00	10.9	Upper Marker	113.00



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 3 : ATAC1.9

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	29,508	0.00	0.0		119.47
27	31,408	0.00	0.0		120.12
28	38,121	0.00	0.0		122.39
29	42,935	0.00	0.0		124.02

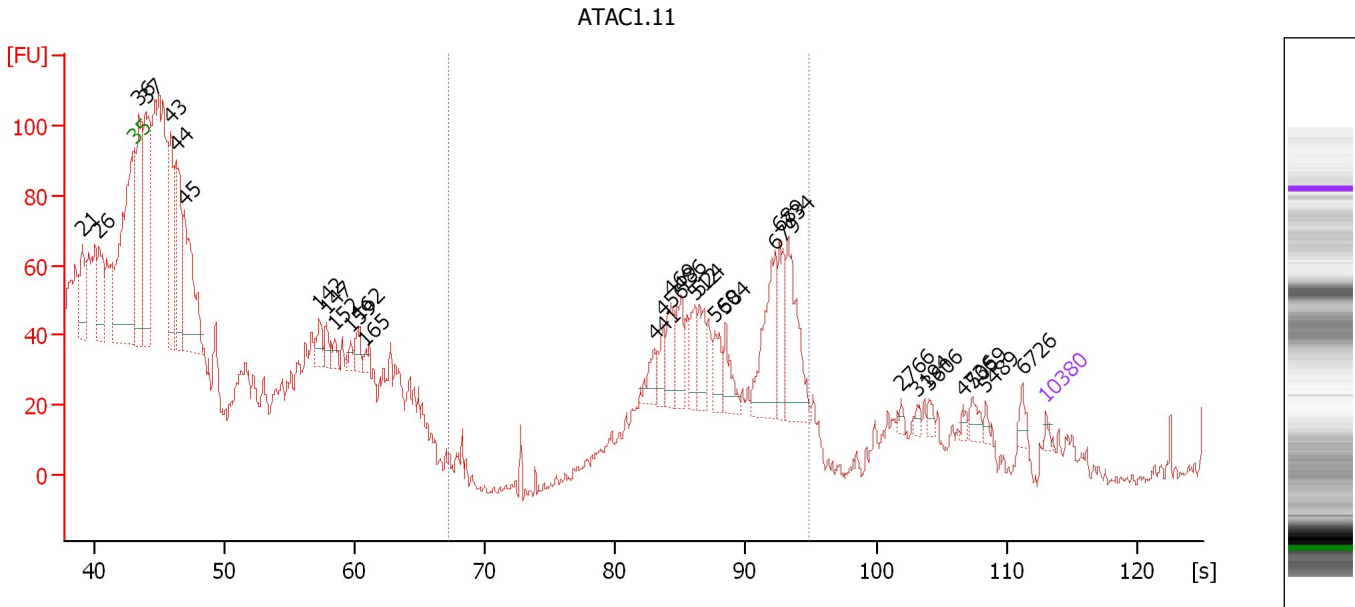
#### Region table for sample 3 : ATAC1.9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
200	1,000	272	80.2	2,064.3	 316.70	2	64.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : ATAC1.11**

Number of peaks found: 31                      Corr. Area 1: 259.7  
 Noise: 1.9

**Peak table for sample 4 : ATAC1.11**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	21	0.00	0.0		39.04
2	26	0.00	0.0		40.36
3	35	125.00	5,411.3	Lower Marker	43.00
4	36	4,030.38	169,164.1		43.41
5	37	5,417.10	219,355.2		43.91
6	43	3,368.46	119,855.9		45.84
7	44	2,768.98	96,047.0		46.26
8	45	3,750.00	125,650.1		46.83
9	142	457.31	4,894.9		57.26
10	147	396.71	4,080.7		57.80
11	152	260.16	2,589.6		58.46
12	159	205.89	1,965.6		59.65
13	162	430.18	4,021.5		60.27
14	165	219.73	2,020.6		60.77
15	441	450.36	1,548.9		82.95
16	456	353.00	1,172.9		83.65
17	469	699.14	2,259.9		84.22
18	486	691.18	2,154.6		85.01
19	512	596.61	1,765.8		86.04
20	524	668.14	1,930.9		86.45
21	560	478.15	1,293.5		87.65
22	584	508.08	1,319.3		88.43
23	679	1,530.39	3,416.9		92.18
24	689	900.92	1,981.9		92.59
25	734	1,618.42	3,341.8		93.25

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : ATAC1.11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,766	68.55	37.6		101.91
27	3,194	93.01	44.1		103.11
28	3,606	105.44	44.3		104.05
29	4,736	84.78	27.1		106.65
30	5,059	201.76	60.4		107.39
31	5,489	99.48	27.5		108.38
32	6,726	184.05	41.5		111.23
33	10,380	75.00	10.9	Upper Marker	113.00

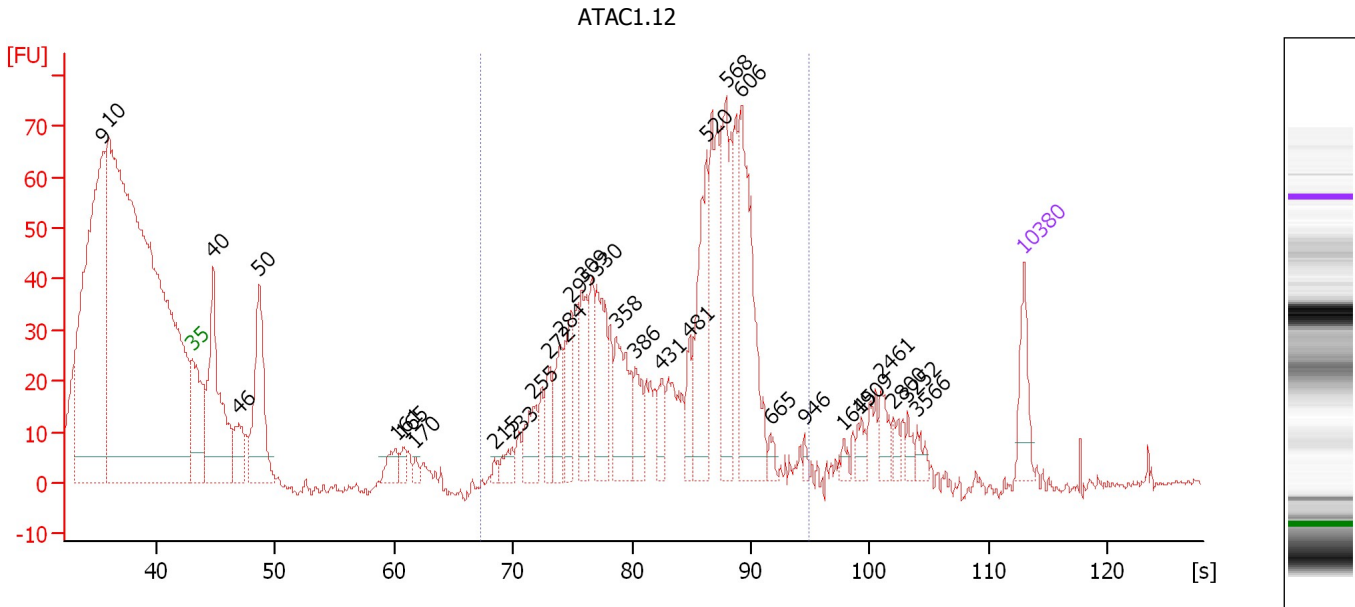
#### Region table for sample 4 : ATAC1.11

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	626	259.7	15,724.4	6,176.40	30	19.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : ATAC1.12**

Number of peaks found: 31                      Corr. Area 1: 528.3  
 Noise: 0.6

**Peak table for sample 5 : ATAC1.12**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	9	0.00	0.0		35.45
2	10	0.00	0.0		36.00
3	35	125.00	5,411.3	Lower Marker	43.00
4	40	613.09	23,399.8		44.76
5	46	134.47	4,468.1		46.98
6	50	416.30	12,558.9		48.65
7	161	60.54	568.7		60.13
8	165	33.13	304.7		60.76
9	170	19.09	169.8		61.80
10	215	15.28	107.8		68.44
11	233	46.76	303.6		69.93
12	255	107.48	638.0		71.70
13	272	82.28	459.2		73.01
14	284	122.53	654.0		74.00
15	295	116.15	596.4		74.90
16	309	161.16	790.9		75.81
17	330	198.37	911.5		77.03
18	358	198.97	842.7		78.66
19	386	90.81	356.7		80.28
20	431	54.47	191.7		82.50
21	481	64.97	204.5		84.80
22	520	272.61	795.1		86.29
23	568	284.21	757.8		87.92
24	606	383.57	958.8		89.23
25	665	20.09	45.8		91.62

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : ATAC1.12

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	946	10.97	17.6		94.52
27	1,645	14.82	13.7		97.82
28	1,909	26.13	20.7		99.04
29	2,461	44.21	27.2		100.93
30	2,800	18.57	10.0		102.02
31	3,252	20.06	9.3		103.24
32	3,566	23.46	10.0		103.96
33	10,380	75.00	10.9	Upper Marker	113.00

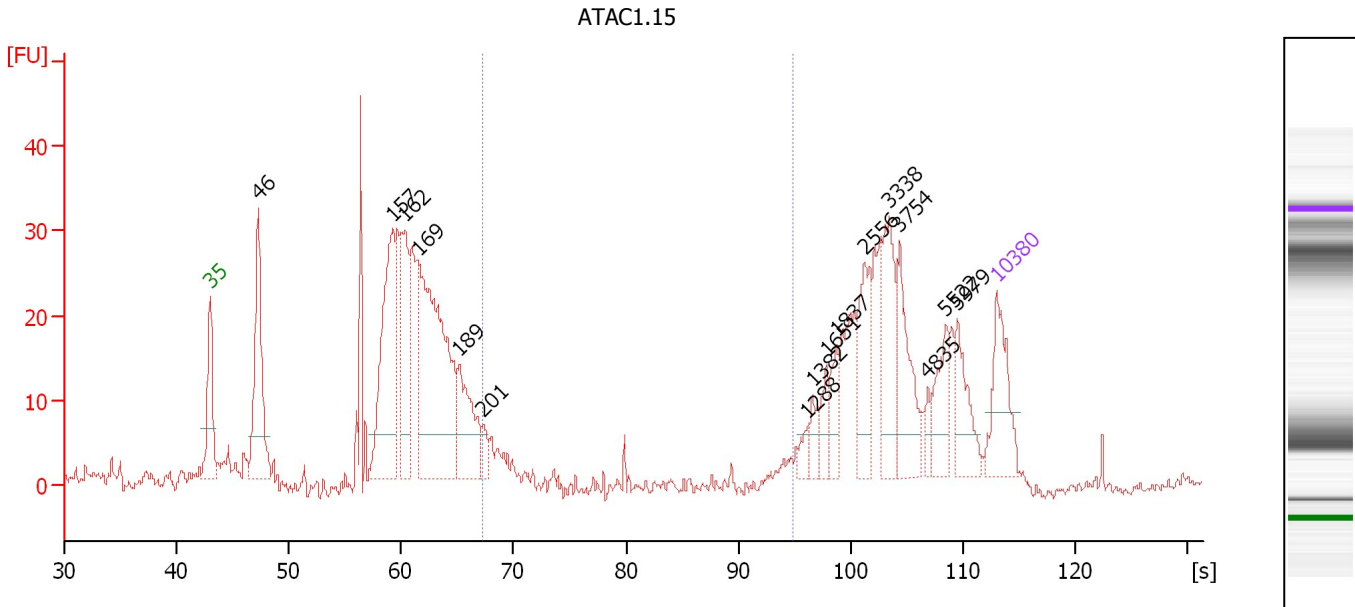
#### Region table for sample 5 : ATAC1.12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
200	1,000	489	528.3	6,464.8	1,877.38	42	23.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : ATAC1.15**

Number of peaks found: 16      Corr. Area 1: 21.8  
 Noise: 0.7

**Peak table for sample 6 : ATAC1.15**

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	46	250.05	8,175.3		47.26
3	157	320.17	3,098.7		59.26
4	162	180.72	1,687.4		60.31
5	169	507.88	4,559.6		61.50
6	189	136.76	1,097.6		65.19
7	201	22.69	171.5		67.29
8	1,288	13.97	16.4		96.17
9	1,382	20.19	22.1		96.60
10	1,651	28.17	25.9		97.84
11	1,837	30.37	25.0		98.70
12	2,556	79.67	47.2		101.24
13	3,338	91.78	41.7		103.44
14	3,754	89.77	36.2		104.39
15	4,835	14.25	4.5		106.88
16	5,522	53.02	14.5		108.46
17	5,979	59.32	15.0		109.51
18	10,380	75.00	10.9	Upper Marker	113.00

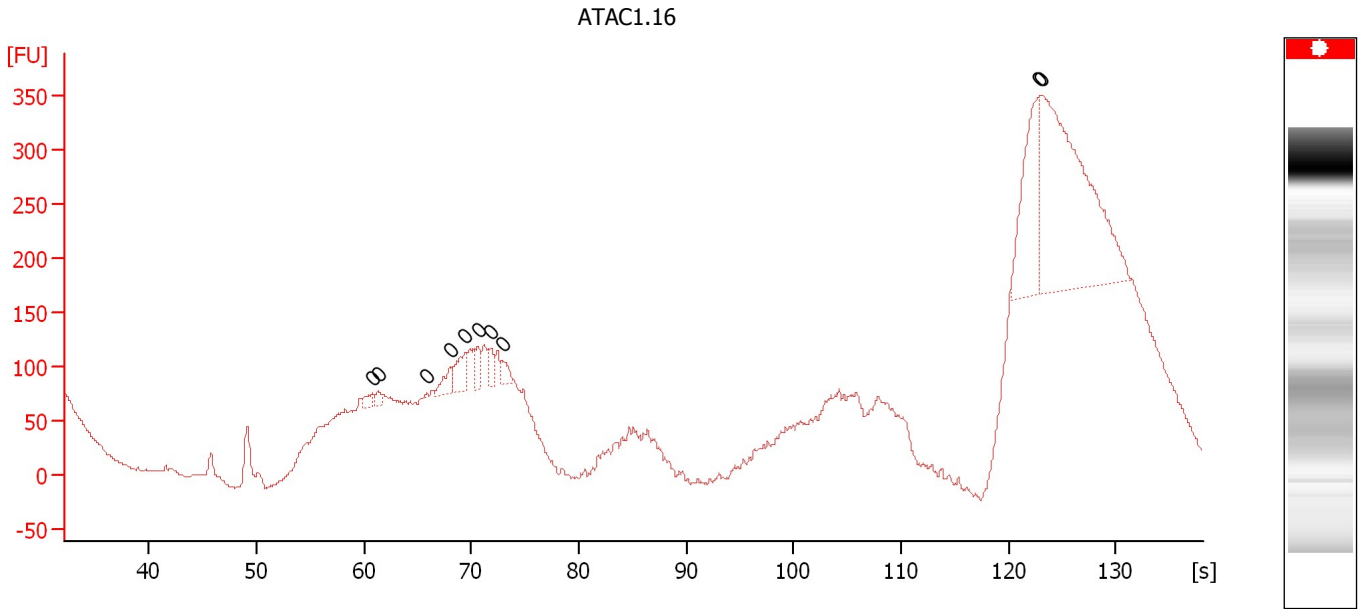
**Region table for sample 6 : ATAC1.15**

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	377	21.8	539.4	89.51	3	70.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : ATAC1.16**

Number of peaks found: 0                      Noise: 1.1

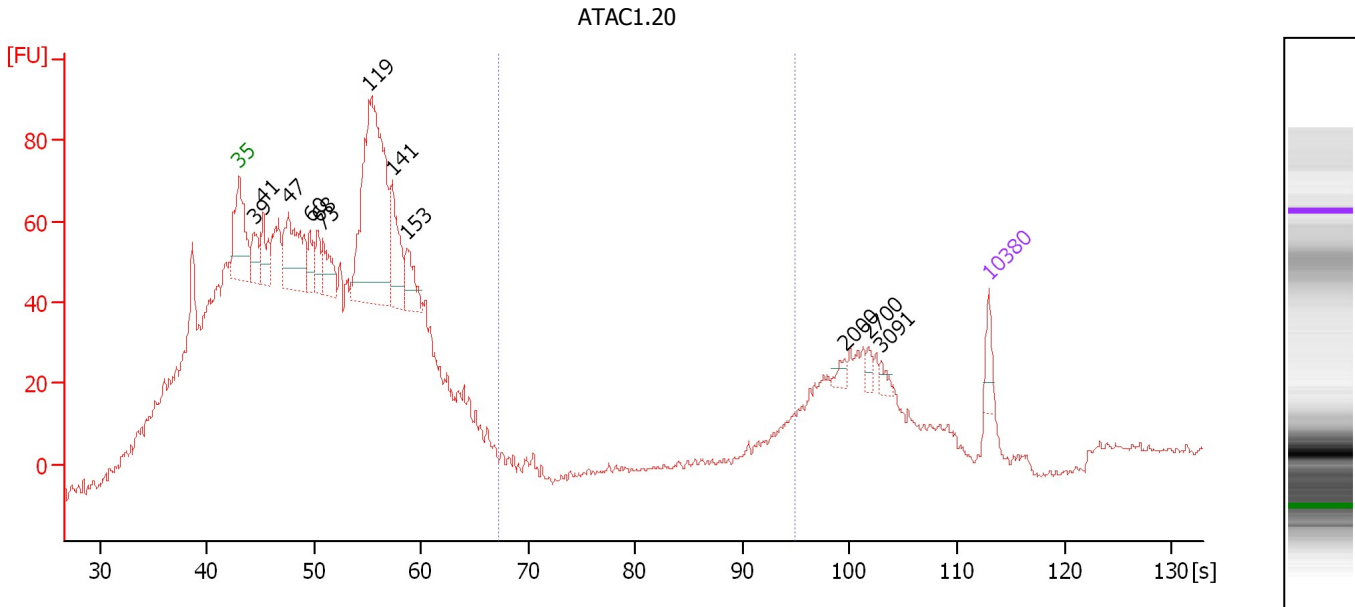
**Peak table for sample 7 : ATAC1.16**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		60.75
2	0	0.00	0.0		61.30
3	0	0.00	0.0		65.80
4	0	0.00	0.0		68.10
5	0	0.00	0.0		69.45
6	0	0.00	0.0		70.60
7	0	0.00	0.0		71.80
8	0	0.00	0.0		72.85
9	0	0.00	0.0		122.85
10	0	0.00	0.0		123.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : ATAC1.20**

Number of peaks found: 12                      Corr. Area 1: 88.1  
 Noise: 0.8

**Peak table for sample 8 : ATAC1.20**

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	185.88	7,284.1		44.37
3	41	221.23	8,181.4		45.24
4	47	588.41	18,883.3		47.58
5	60	142.15	3,565.1		49.62
6	68	169.48	3,752.2		50.38
7	73	218.97	4,562.7		50.79
8	119	1,869.31	23,782.9		55.17
9	141	432.32	4,630.7		57.25
10	153	219.15	2,164.4		58.68
11	2,000	32.18	24.4		99.46
12	2,700	34.99	19.6		101.70
13	3,091	30.18	14.8		102.87
14	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 8 : ATAC1.20**

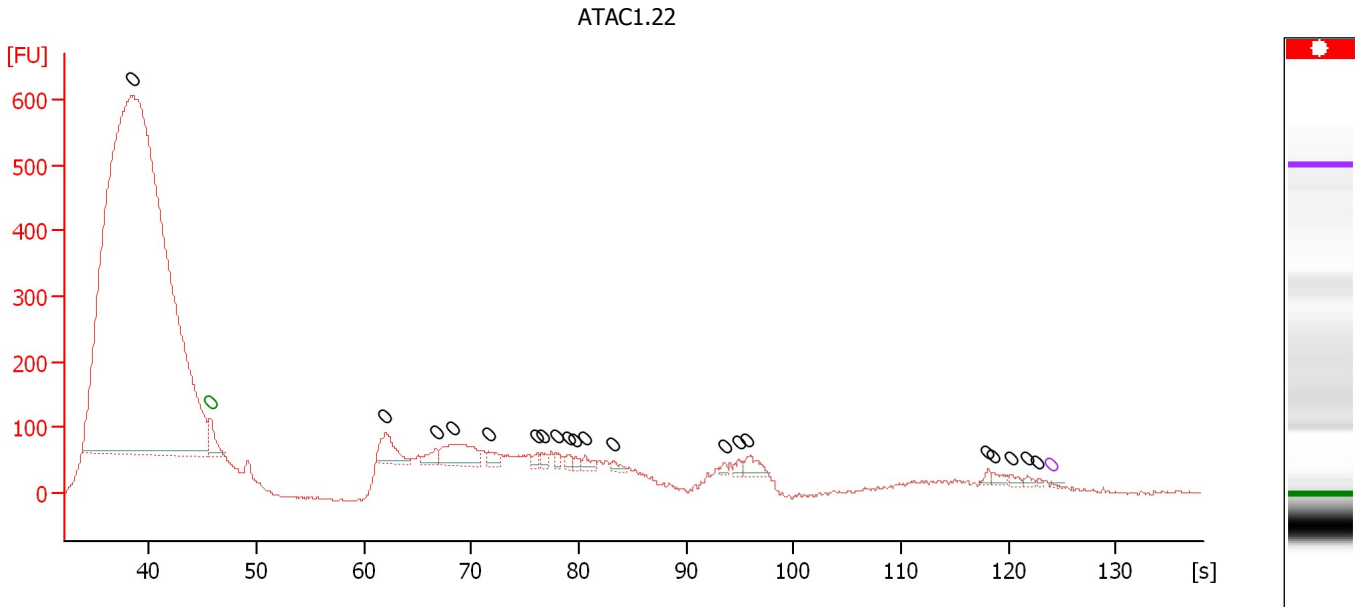
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	556	88.1	2,354.9	604.34	3	42.1



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 9 : ATAC1.22**

End Analysis Time Range [s] : 106.05

**Overall Results for sample 9 : ATAC1.22**

Number of peaks found: 20                      Noise: 1.7

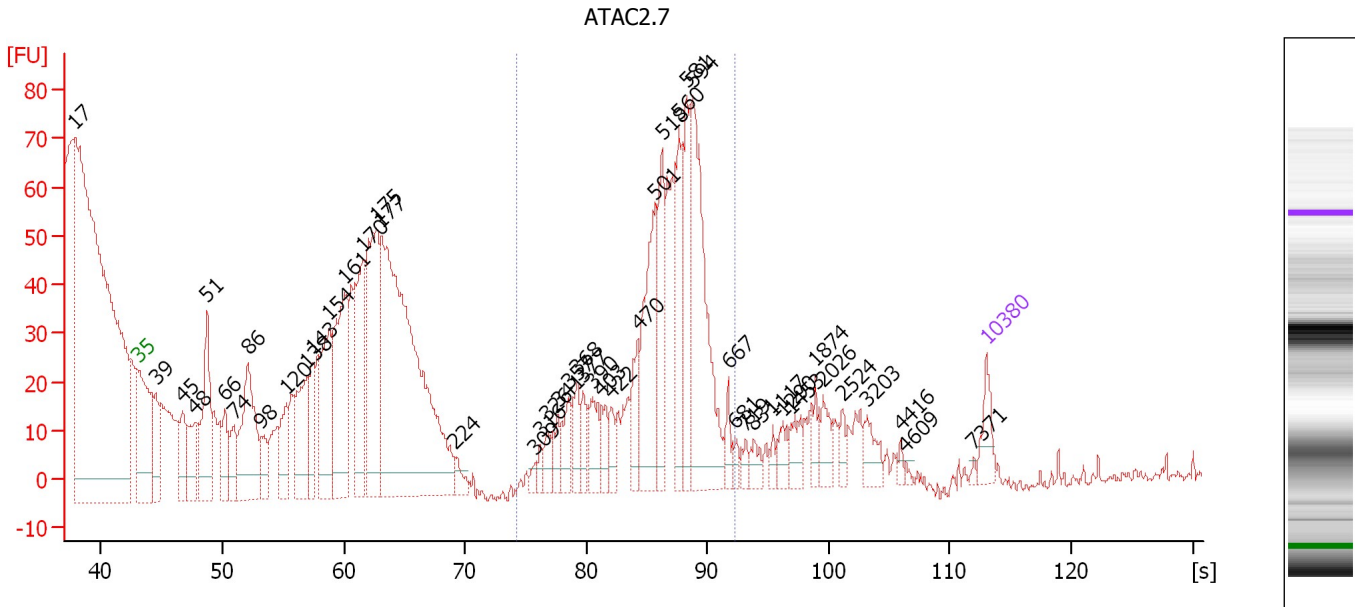
**Peak table for sample 9 : ATAC1.22**

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		38.45
2	0	125.00	0.0	Lower Marker	45.70
3	0	6,629.05	0.0		62.00
4	0	2,398.32	0.0		66.70
5	0	8,858.59	0.0		68.20
6	0	1,849.19	0.0		71.60
7	0	1,113.09	0.0		76.15
8	0	1,104.57	0.0		76.55
9	0	1,048.36	0.0		77.85
10	0	1,285.24	0.0		79.10
11	0	881.06	0.0		79.70
12	0	1,499.92	0.0		80.60
13	0	1,098.63	0.0		83.10
14	0	801.24	0.0		93.55
15	0	1,106.14	0.0		94.90
16	0	2,897.73	0.0		95.70
17	0	750.06	0.0		118.10
18	0	1,072.22	0.0		118.50
19	0	819.99	0.0		120.20
20	0	640.46	0.0		121.75
21	0	340.18	0.0		122.65
22	0	75.00	0.0	Upper Marker	124.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : ATAC2.7**

Number of peaks found: 48                      Corr. Area 1: 189.7  
 Noise: 1.1

**Peak table for sample 10 : ATAC2.7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	17	0.00	0.0		37.86
2	35	125.00	5,411.3	Lower Marker	43.00
3	39	278.17	10,803.4		44.51
4	45	231.77	7,818.8		46.72
5	48	247.52	7,893.9		47.69
6	51	531.53	15,683.6		48.76
7	66	182.62	4,177.3		50.17
8	74	180.25	3,683.2		50.93
9	86	633.73	11,133.5		52.08
10	98	134.95	2,089.1		53.18
11	120	199.89	2,521.2		55.26
12	138	370.24	4,060.5		56.95
13	143	228.43	2,414.0		57.43
14	154	469.64	4,624.8		58.76
15	161	676.57	6,363.9		60.09
16	170	540.28	4,829.4		61.64
17	175	806.84	6,974.2		62.70
18	177	2,299.67	19,635.5		63.10
19	224	59.60	402.4		69.21
20	309	27.41	134.5		75.81
21	316	41.81	200.7		76.21
22	326	77.68	360.7		76.83
23	341	65.15	289.7		77.67
24	357	112.03	475.8		78.60
25	368	109.44	450.4		79.26

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 10 : ATAC2.7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	377	82.17	330.6		79.75
27	390	128.59	499.2		80.55
28	403	75.05	282.0		81.25
29	422	71.37	256.4		82.10
30	470	138.54	447.0		84.27
31	501	427.91	1,293.5		85.68
32	518	333.47	974.5		86.26
33	560	253.22	685.6		87.63
34	581	289.08	754.1		88.34
35	594	719.91	1,836.2		88.78
36	667	53.27	121.0		91.70
37	681	31.26	69.5		92.28
38	719	30.27	63.8		93.16
39	831	47.61	86.9		93.83
40	1,117	26.21	35.5		95.38
41	1,290	52.93	62.2		96.18
42	1,453	73.32	76.5		96.93
43	1,874	43.36	35.1		98.88
44	2,026	69.60	52.1		99.54
45	2,524	32.84	19.7		101.13
46	3,203	68.09	32.2		103.13
47	4,416	15.04	5.2		105.92
48	4,609	8.63	2.8		106.36
49	7,371	8.37	1.7		111.98
50	10,380	75.00	10.9	Upper Marker	113.00

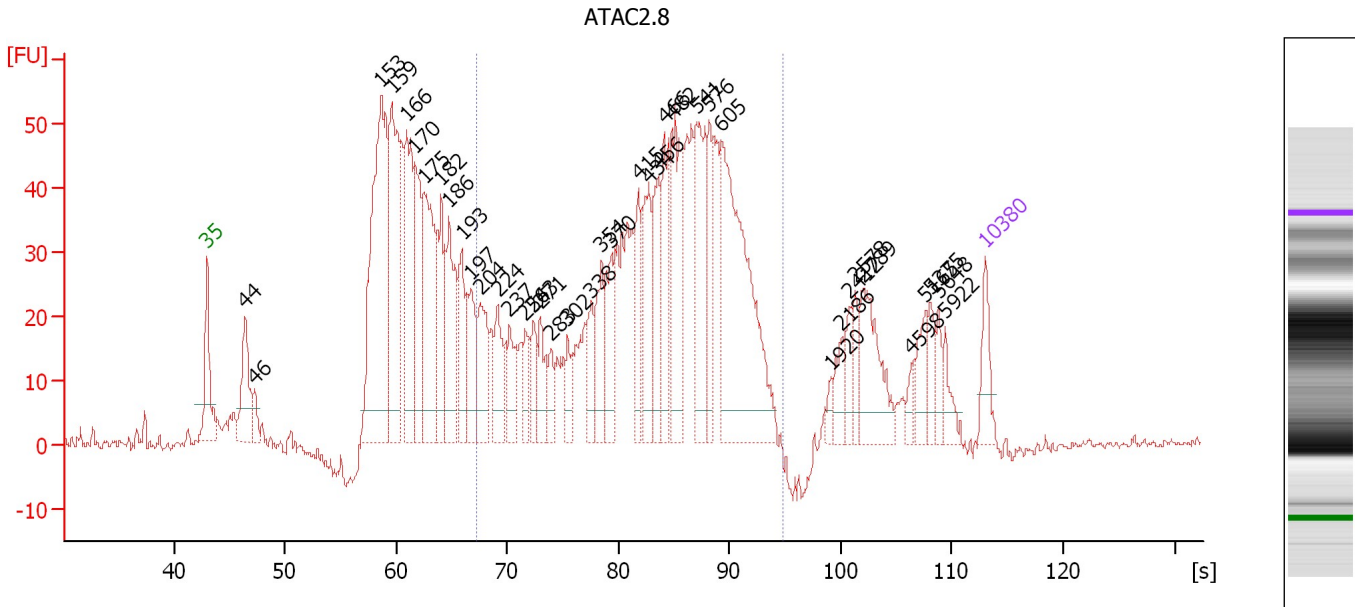
**Region table for sample 10 : ATAC2.7**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
287	679	560	189.7	2,558.4	942.71	99	6.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : ATAC2.8**

Number of peaks found: 40                      Corr. Area 1: 918.6  
 Noise: 0.8

**Peak table for sample 11 : ATAC2.8**

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	44	239.55	8,222.3		46.43
3	46	60.03	1,968.5		47.20
4	153	1,073.16	10,609.3		58.65
5	159	591.17	5,641.2		59.67
6	166	480.75	4,398.4		60.92
7	170	336.63	3,003.7		61.70
8	175	553.46	4,804.5		62.57
9	182	238.46	1,980.7		64.01
10	186	300.33	2,441.8		64.74
11	193	193.76	1,523.8		65.90
12	197	211.33	1,622.2		66.77
13	204	214.89	1,594.2		67.59
14	224	173.60	1,174.1		69.18
15	237	150.12	961.2		70.20
16	254	89.36	533.0		71.60
17	263	97.72	562.9		72.32
18	271	103.62	579.7		72.95
19	283	71.71	383.4		73.97
20	302	80.39	403.4		75.42
21	338	94.00	421.7		77.49
22	354	156.98	671.2		78.46
23	370	144.99	593.5		79.38
24	415	144.51	527.6		81.79
25	434	207.89	725.4		82.66

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 11 : ATAC2.8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	456	203.06	675.4		83.63
27	466	171.97	558.9		84.11
28	482	265.01	832.7		84.84
29	541	311.46	872.3		87.01
30	576	166.71	438.7		88.17
31	605	724.76	1,815.1		89.18
32	1,920	22.67	17.9		99.09
33	2,186	54.43	37.7		100.05
34	2,412	51.51	32.4		100.78
35	2,578	52.90	31.1		101.31
36	2,789	189.25	102.8		101.99
37	4,598	29.32	9.7		106.33
38	5,165	75.19	22.1		107.64
39	5,375	50.02	14.1		108.12
40	5,648	41.79	11.2		108.75
41	5,922	50.26	12.9		109.38
42	10,380	75.00	10.9	Upper Marker	113.00

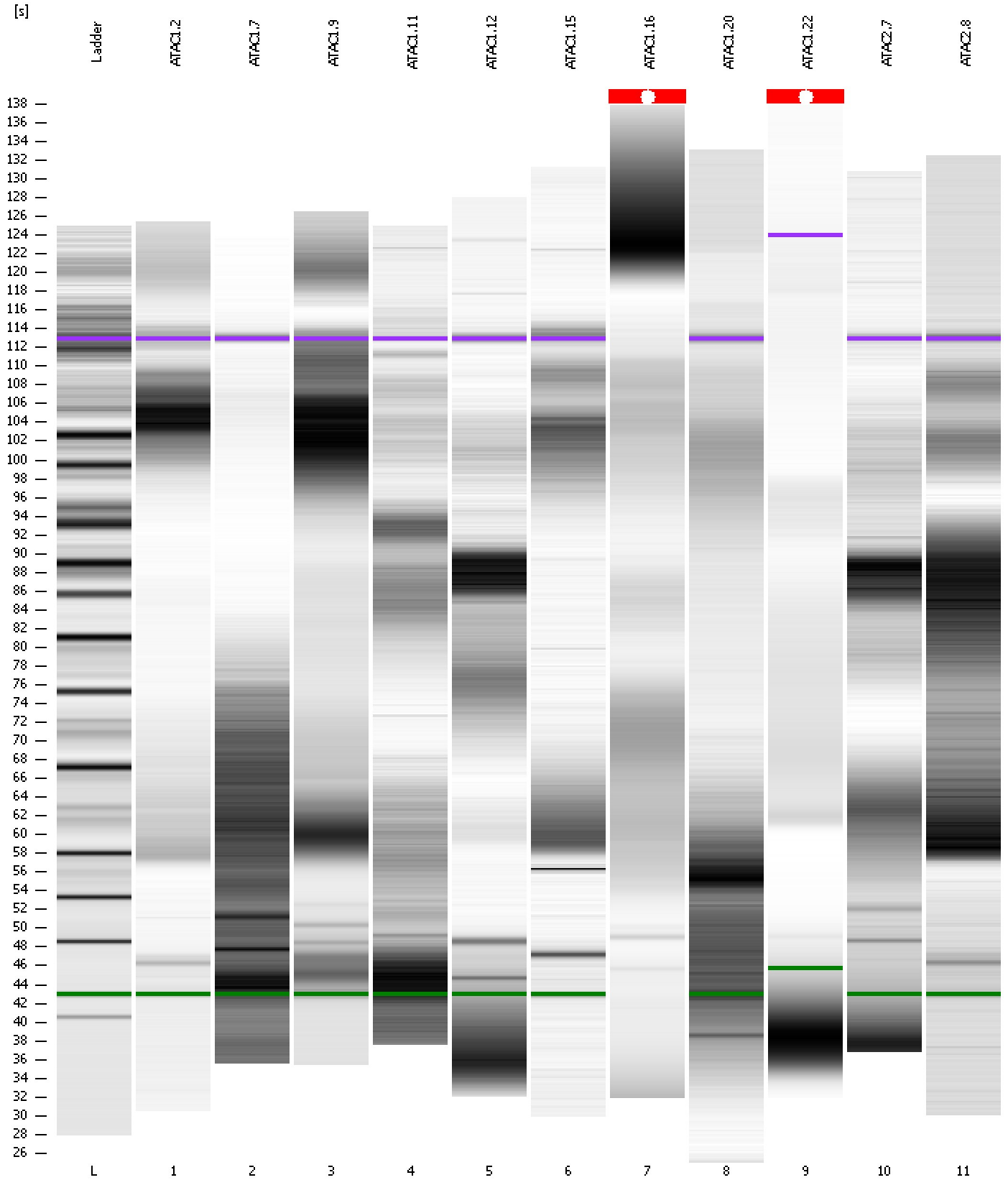
**Region table for sample 11 : ATAC2.8**

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	458	918.6	19,497.1	4,978.51	52	30.7

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

Created: 3/18/2016 10:18:34 AM  
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Gel Image

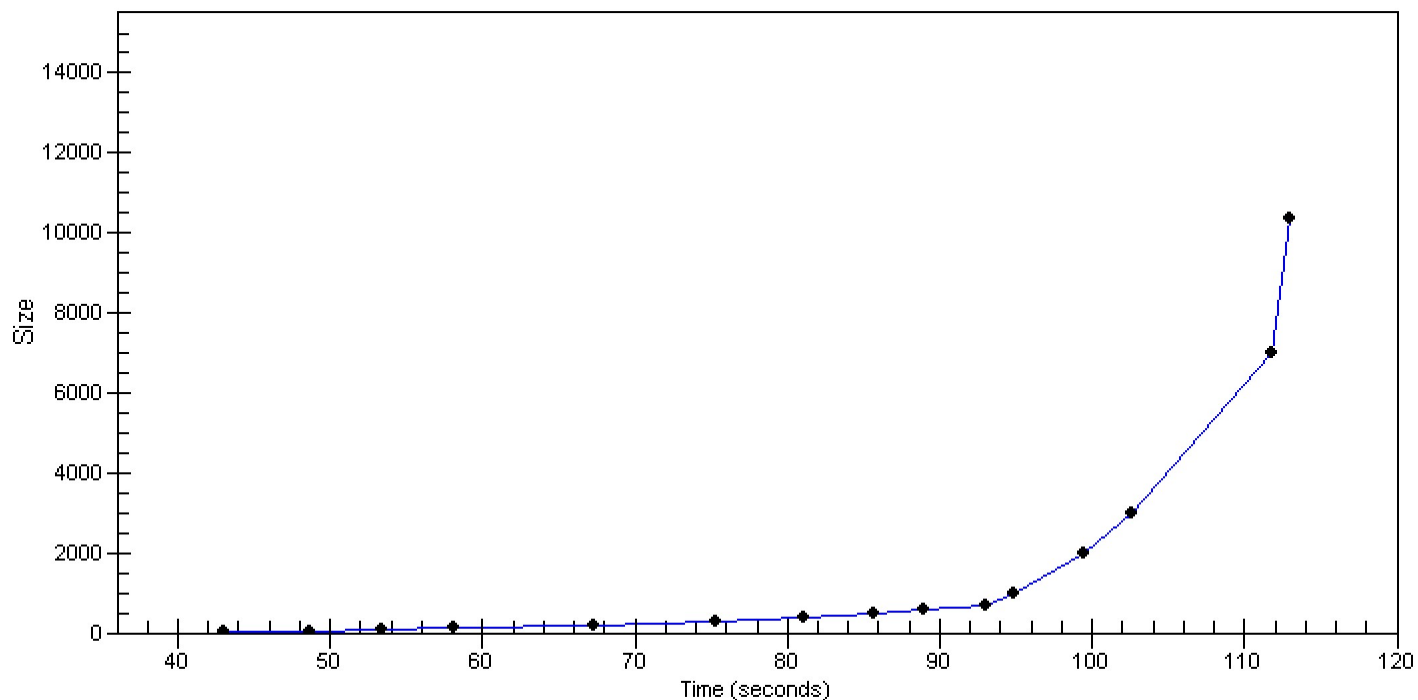


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

Created: 3/18/2016 10:18:34 AM  
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**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-18\2016-03-18\_001.xad

Created: 3/18/2016 10:18:34 AM  
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**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		3/18/2016 10:59:54 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\2016-03-18\2016-03-18_001.xad)		Instrument	Run		3/18/2016 10:18:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/18/2016 10:18:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/18/2016 10:18:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/18/2016 10:18:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/18/2016 10:18:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/18/2016 10:18:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/18/2016 10:18:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1