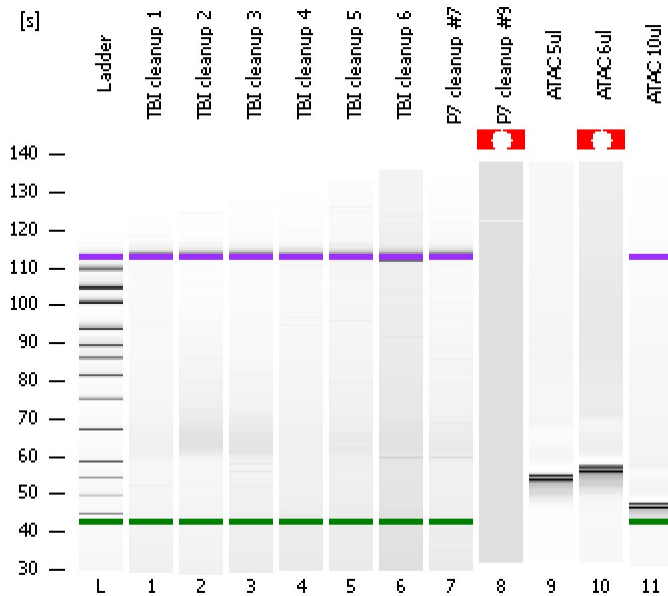


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
Modified: 5/12/2015 6:01:52 PM

### Electrophoresis File Run Summary



#### Instrument Information:

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

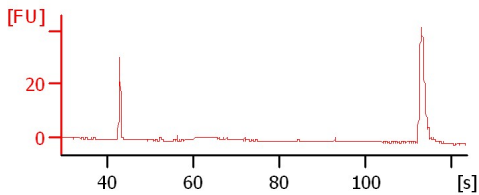
#### Assay Information:

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

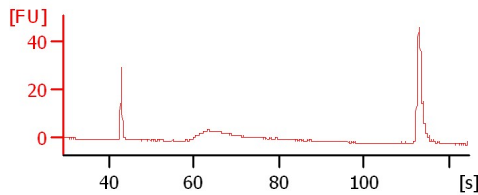
#### Chip Information:

Chip Lot #:   
Reagent Kit Lot #:   
Chip Comments:

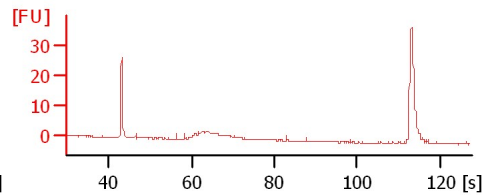
TBI cleanup 1



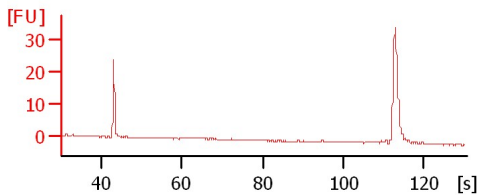
TBI cleanup 2



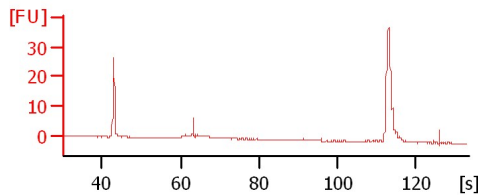
TBI cleanup 3



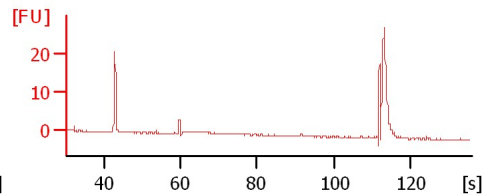
TBI cleanup 4



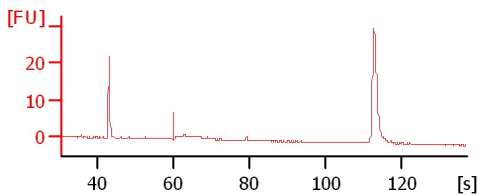
TBI cleanup 5



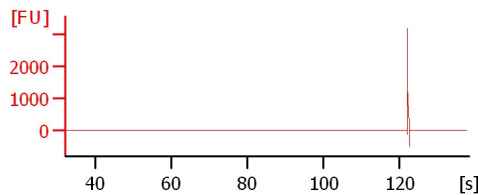
TBI cleanup 6



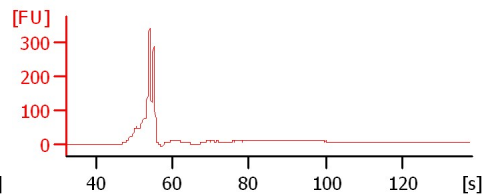
P7 cleanup #7



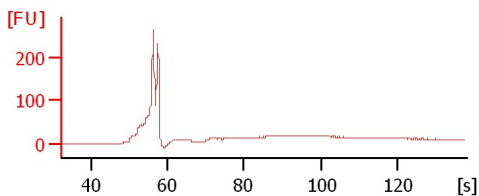
P7 cleanup #9



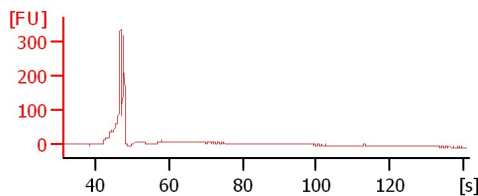
ATAC 5ul



ATAC 6ul



ATAC 10ul



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
 Modified: 5/12/2015 6:01:52 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
TBI cleanup 1		<input type="checkbox"/>	✓			
TBI cleanup 2		<input type="checkbox"/>	✓			
TBI cleanup 3		<input type="checkbox"/>	✓			
TBI cleanup 4		<input type="checkbox"/>	✓			
TBI cleanup 5		<input type="checkbox"/>	✓			
TBI cleanup 6		<input type="checkbox"/>	✓			
P7 cleanup #7		<input type="checkbox"/>	✓			
P7 cleanup #9		<input type="checkbox"/>	⚠			
ATAC 5ul		<input type="checkbox"/>	✓			
ATAC 6ul		<input type="checkbox"/>	✓			
ATAC 10ul		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
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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

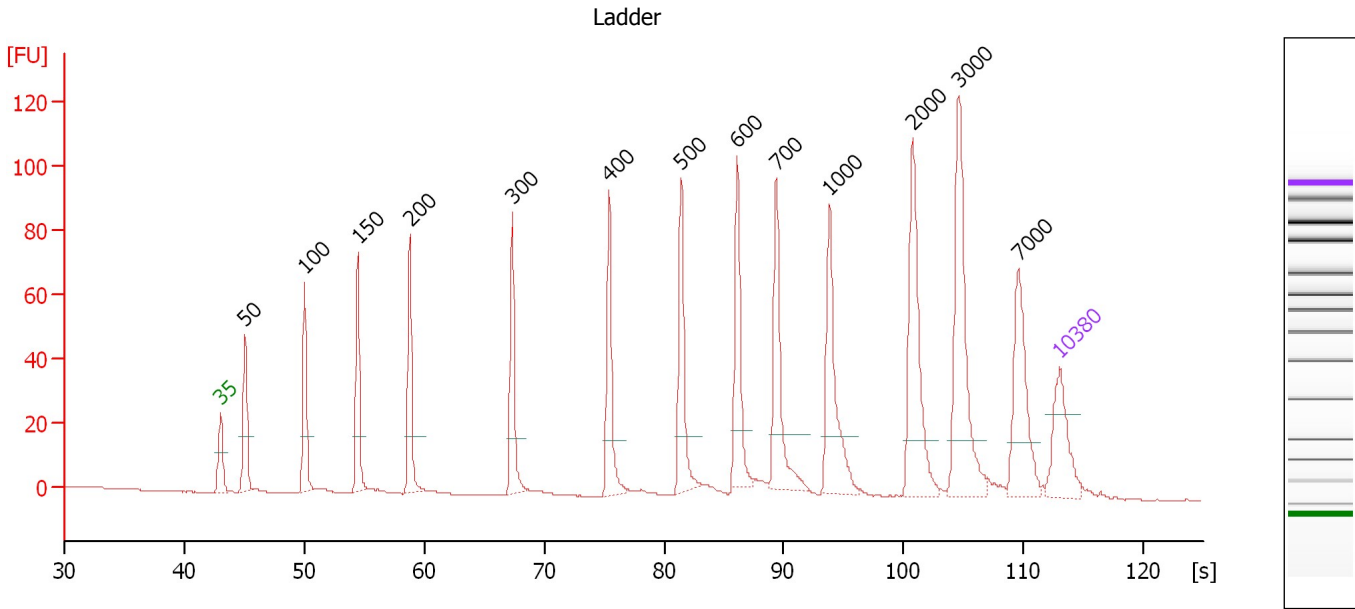
**Ladder**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

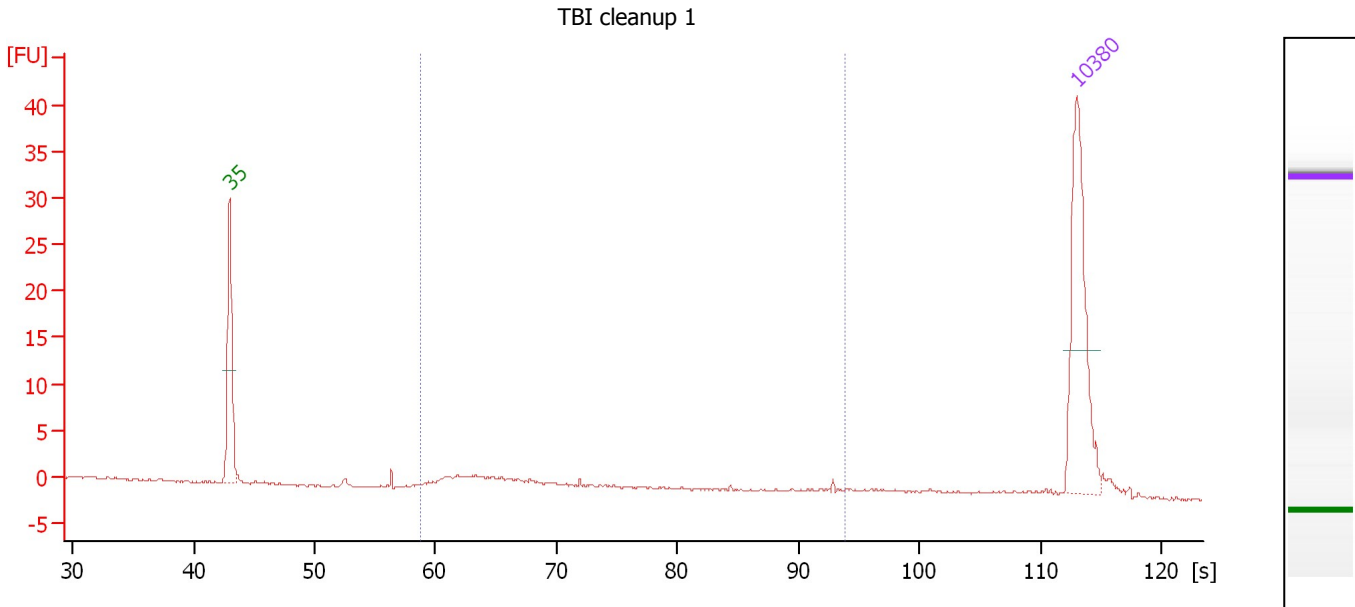
**Peak table for Ladder**

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	45.02
3	100	150.00	2,272.7	Ladder Peak	50.04
4	150	150.00	1,515.2	Ladder Peak	54.43
5	200	150.00	1,136.4	Ladder Peak	58.77
6	300	150.00	757.6	Ladder Peak	67.33
7	400	150.00	568.2	Ladder Peak	75.40
8	500	150.00	454.5	Ladder Peak	81.45
9	600	150.00	378.8	Ladder Peak	86.11
10	700	150.00	324.7	Ladder Peak	89.38
11	1,000	150.00	227.3	Ladder Peak	93.82
12	2,000	150.00	113.6	Ladder Peak	100.77
13	3,000	150.00	75.8	Ladder Peak	104.62
14	7,000	150.00	32.5	Ladder Peak	109.59
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : TBI cleanup 1**

Number of peaks found: 0                      Corr. Area 1: 11.6  
 Noise: 0.1

**Peak table for sample 1 : TBI cleanup 1**

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

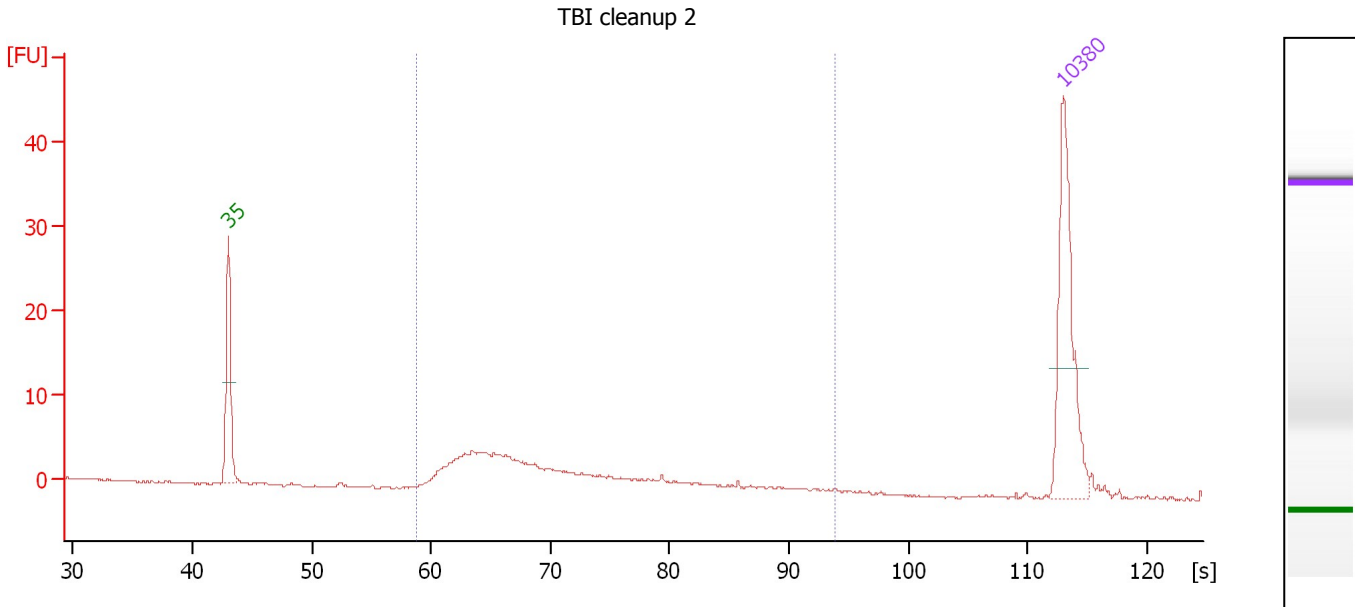
**Region table for sample 1 : TBI cleanup 1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	342	1,000	11.6	146.8	60	55.4	27.34	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
 Modified: 5/12/2015 6:01:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : TBI cleanup 2**

Number of peaks found: 0                      Corr. Area 1: 81.9  
 Noise: 0.1

**Peak table for sample 2 : TBI cleanup 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	10,380	75.00	10.9	Upper Marker	113.00

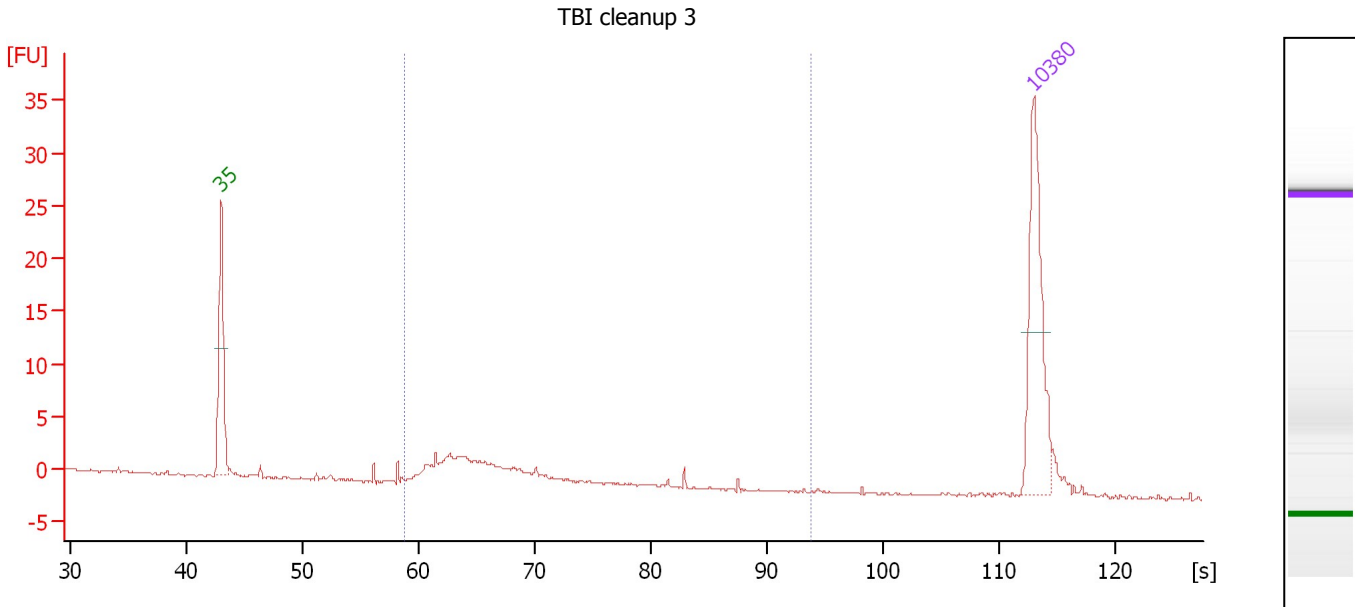
**Region table for sample 2 : TBI cleanup 2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	365	1,000	81.9	832.7	92	39.4	172.47	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : TBI cleanup 3**

Number of peaks found: 0                      Corr. Area 1: 26.6  
 Noise: 0.1

**Peak table for sample 3 : TBI cleanup 3**

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

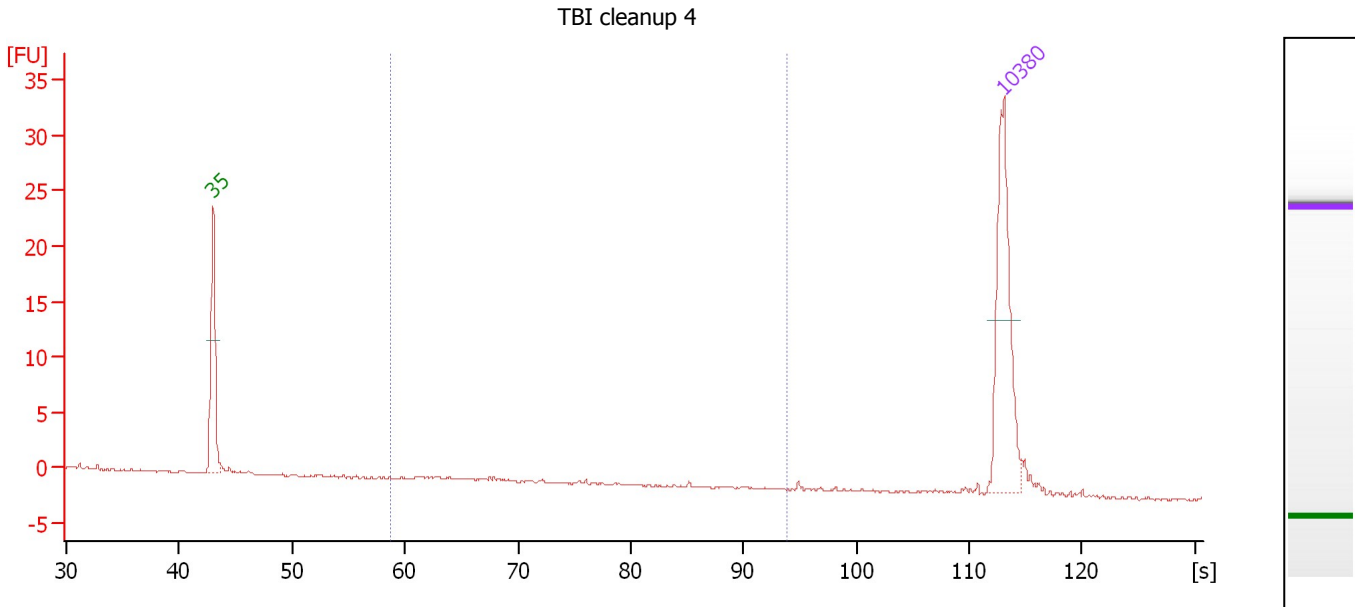
**Region table for sample 3 : TBI cleanup 3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	287	1,000	26.6	424.3	80	22.5	77.11	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
 Modified: 5/12/2015 6:01:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : TBI cleanup 4**

Number of peaks found: 0      Corr. Area 1: 0.3  
 Noise: 0.1

**Peak table for sample 4 : TBI cleanup 4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : TBI cleanup 4**

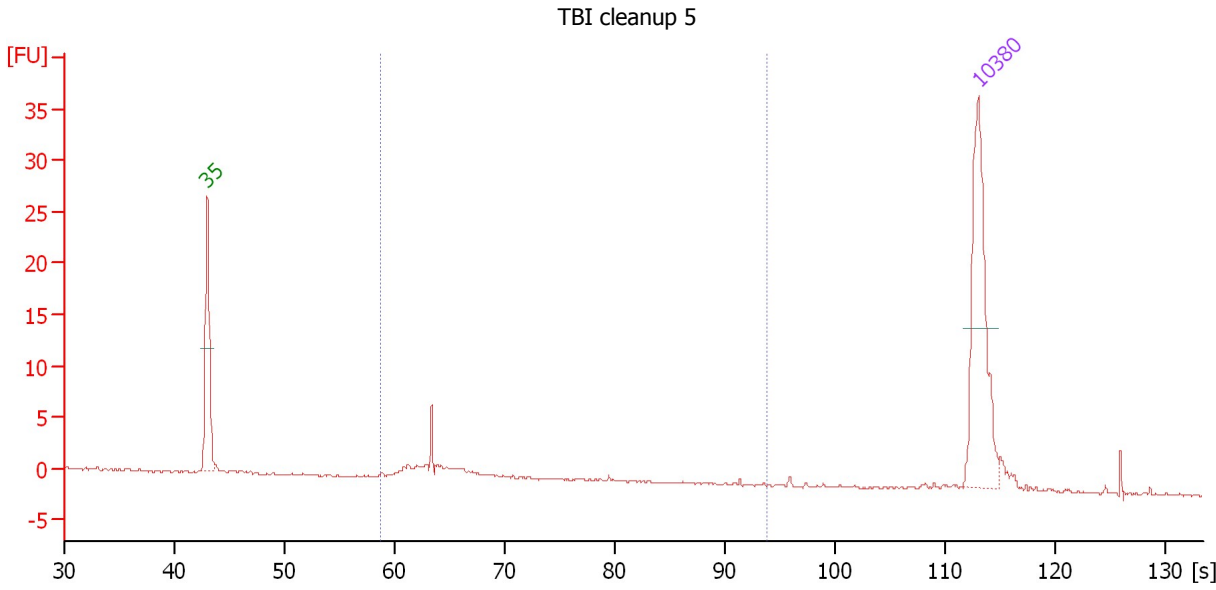
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	378	1,000	0.3	4.1	6	34.2	0.88	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
 Modified: 5/12/2015 6:01:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : TBI cleanup 5**

Number of peaks found: 0                      Corr. Area 1: 14.8  
 Noise: 0.1

**Peak table for sample 5 : TBI cleanup 5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	10,380	75.00	10.9	Upper Marker	113.00

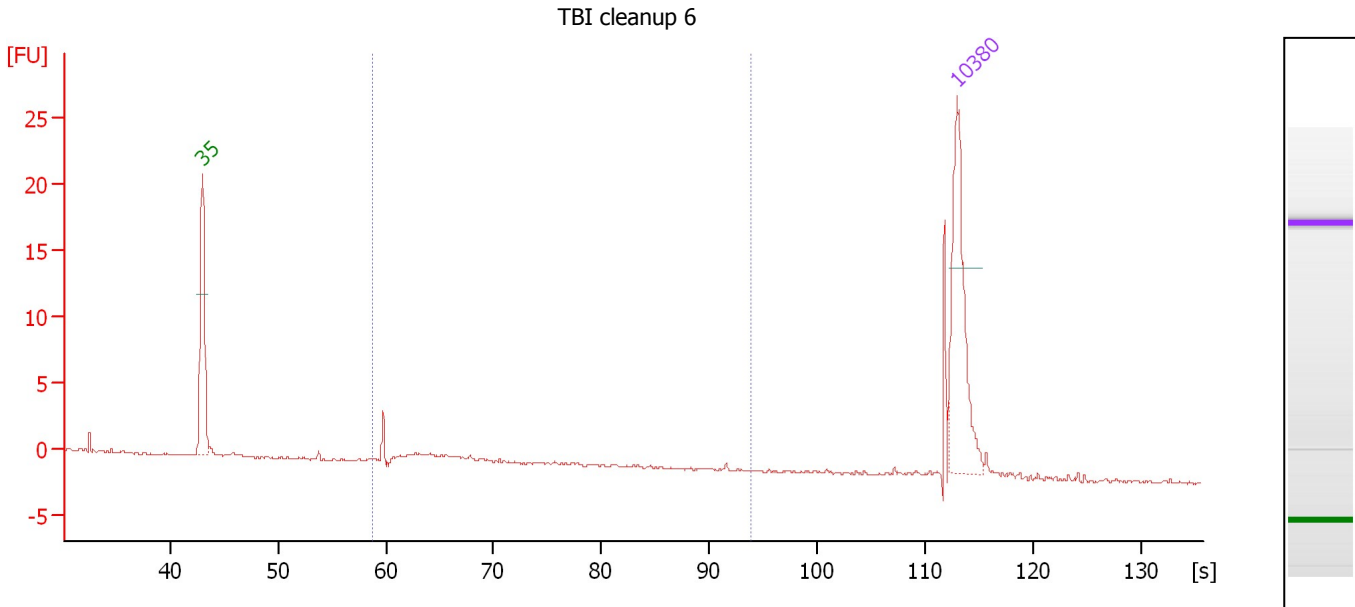
**Region table for sample 5 : TBI cleanup 5**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	293	1,000	14.8	213.2	66	33.3	38.27	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
 Modified: 5/12/2015 6:01:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : TBI cleanup 6**

Number of peaks found: 0                      Corr. Area 1: 8.4  
 Noise: 0.1

**Peak table for sample 6 : TBI cleanup 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	10,380	75.00	10.9	Upper Marker	113.00

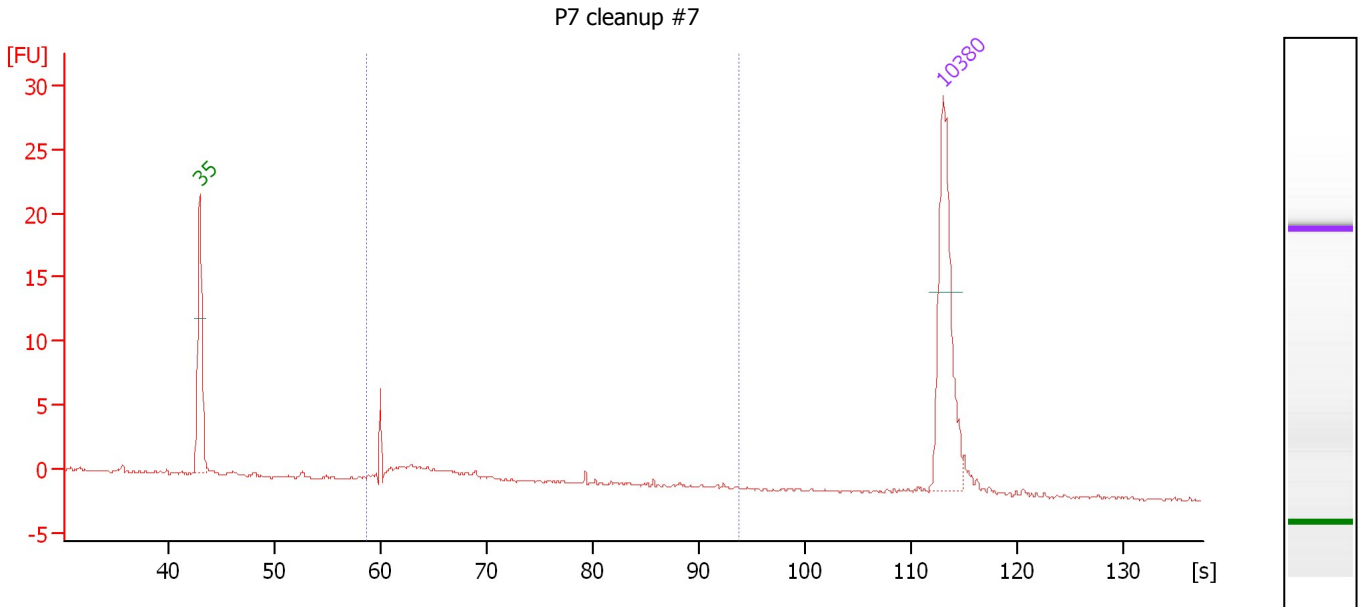
**Region table for sample 6 : TBI cleanup 6**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	320	1,000	8.4	171.7	47	42.3	31.64	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
 Modified: 5/12/2015 6:01:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : P7 cleanup #7**

Number of peaks found: 0                      Corr. Area 1: 14.7  
 Noise: 0.1

**Peak table for sample 7 : P7 cleanup #7**

Pea k	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 : P7 cleanup #7**

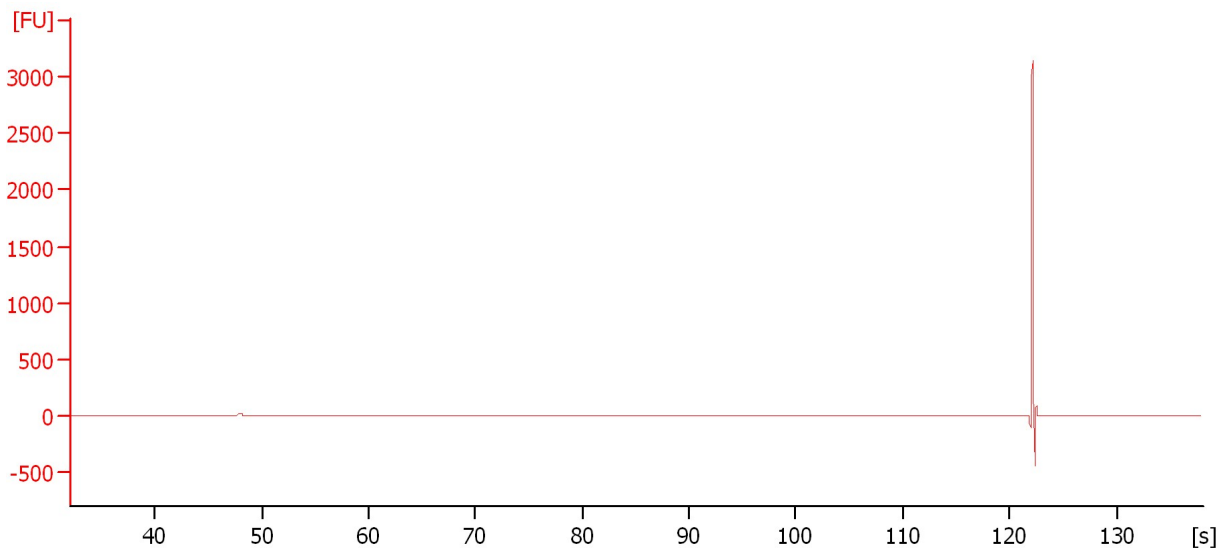
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Co lor
200	302	1,000	14.7	275.0	73	39.5	49.11	■

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
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**Electropherogram Summary Continued ...**

P7 cleanup #9



**Setpoint Deviations for sample 8 : P7 cleanup #9**

Slope Threshold :	0	Area Threshold :	0
Height Threshold [FU] :	0.2	Width Threshold [s] :	9

**Overall Results for sample 8 : P7 cleanup #9**

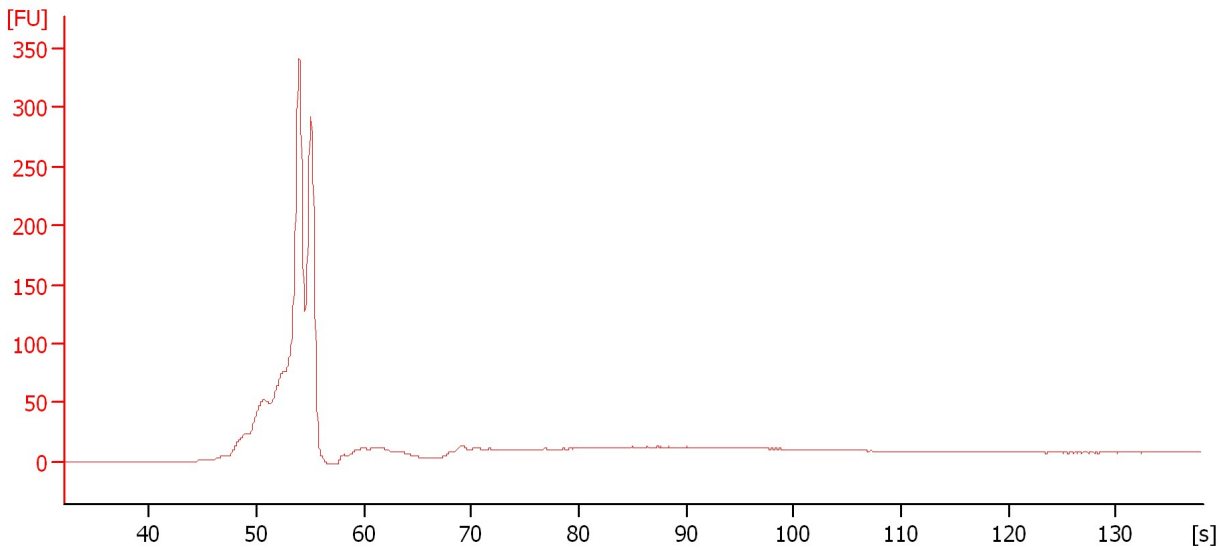
Noise: 0.1

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
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**Electropherogram Summary Continued ...**

ATAC 5ul



**Setpoint Deviations for sample 9 : ATAC 5ul**

Slope Threshold :	0	Area Threshold :	0
Height Threshold [FU] :	0.2	Width Threshold [s] :	22

**Overall Results for sample 9 : ATAC 5ul**

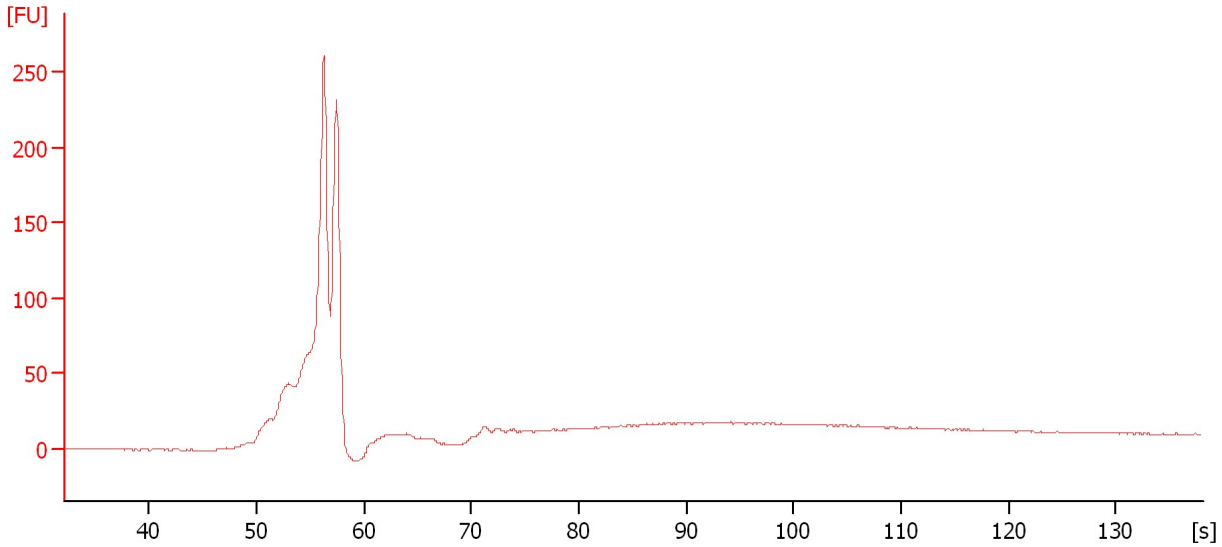
Noise: 0.1

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
Modified: 5/12/2015 6:01:52 PM

**Electropherogram Summary Continued ...**

ATAC 6ul



**Setpoint Deviations for sample 10 : ATAC 6ul**

Slope Threshold :	0	Area Threshold :	0
Height Threshold [FU] :	0.2	Width Threshold [s] :	22

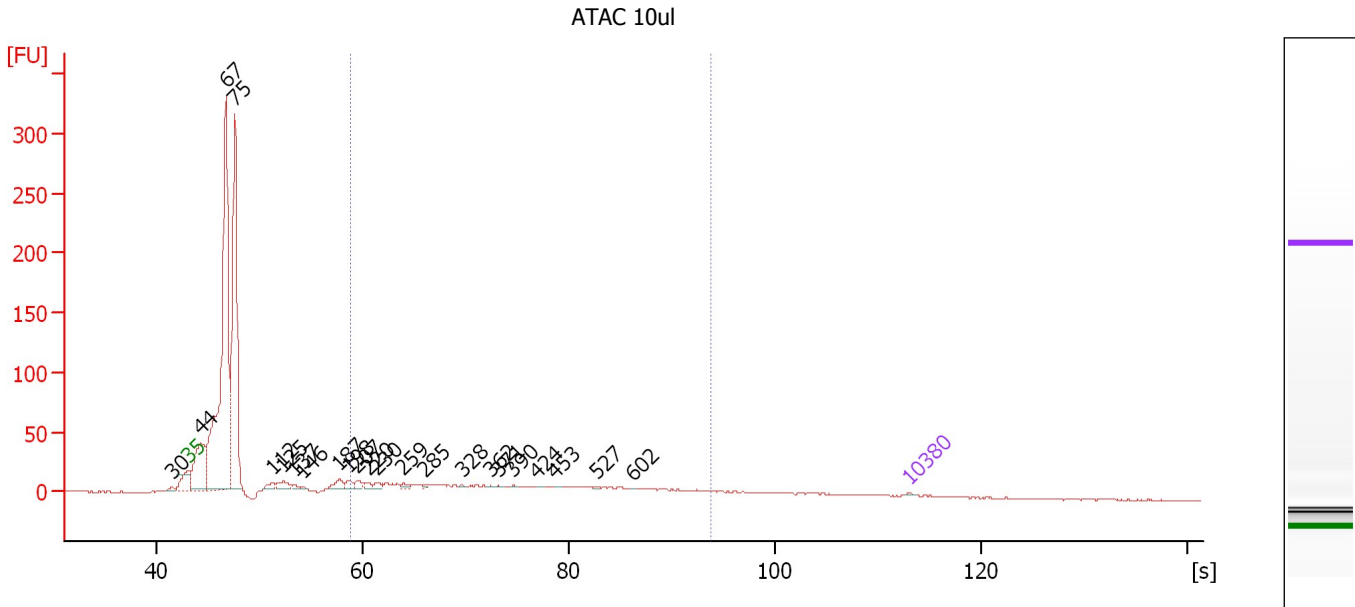
**Overall Results for sample 10 : ATAC 6ul**

Noise: 0.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

Created: 5/12/2015 5:20:44 PM  
 Modified: 5/12/2015 6:01:52 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 11 : ATAC 10ul**

Height Threshold [FU] : 0.2

**Overall Results for sample 11 : ATAC 10ul**

Number of peaks found: 23                      Corr. Area 1: 326.7  
 Noise: 0.5

**Peak table for sample 11 : ATAC 10ul**

Pea k	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	44	15,571.99	537,321.6		44.20
4	67	85,174.52	1,933,413.1		46.70
5	75	49,954.93	1,008,519.3		47.53
6	112	1,330.87	17,940.1		51.13
7	125	2,094.29	25,415.4		52.22
8	137	647.00	7,170.6		53.26
9	146	231.30	2,397.1		54.09
10	187	1,702.59	13,758.7		57.69
11	198	1,142.37	8,729.5		58.63
12	207	1,035.71	7,589.4		59.35
13	220	727.94	5,023.6		60.45
14	230	697.12	4,594.5		61.33
15	259	546.84	3,197.8		63.83
16	285	282.85	1,505.6		66.02
17	328	167.45	772.9		69.61
18	362	95.96	401.1		72.38
19	371	101.22	413.5		73.05
20	390	68.59	266.7		74.56
21	424	31.04	110.9		76.85
22	453	48.66	162.6		78.63

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad


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 Modified: 5/12/2015 6:01:52 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 11 : ATAC 10ul

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
23	527	75.81	218.2		82.69
24	602	48.18	121.3		86.18
25	10,380	75.00	10.9	Upper Marker	113.00

#### Region table for sample 11 : ATAC 10ul

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	433	1,000	326.7	161,441.7	21	43.0	36,428.77	



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12\_003.xad

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Gel Image

