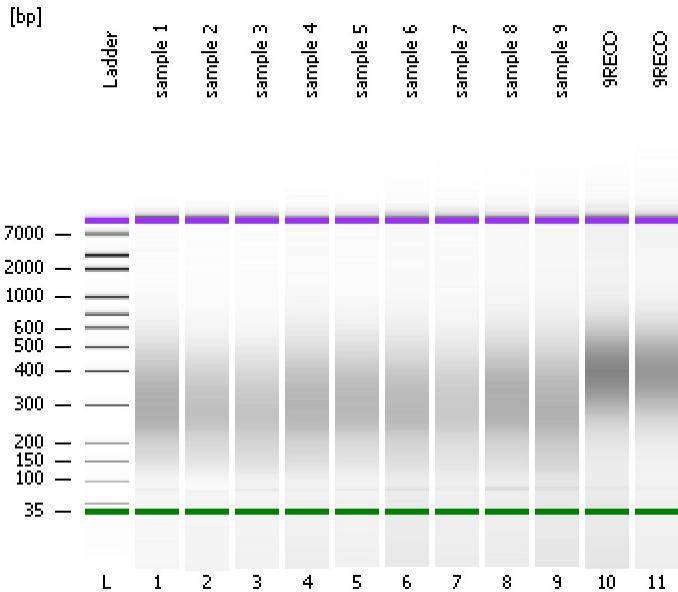Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-22\2014-05-22_001.xad

Created: 5/22/2014 1:32:27 PM
Modified: 5/22/2014 2:13:50 PM

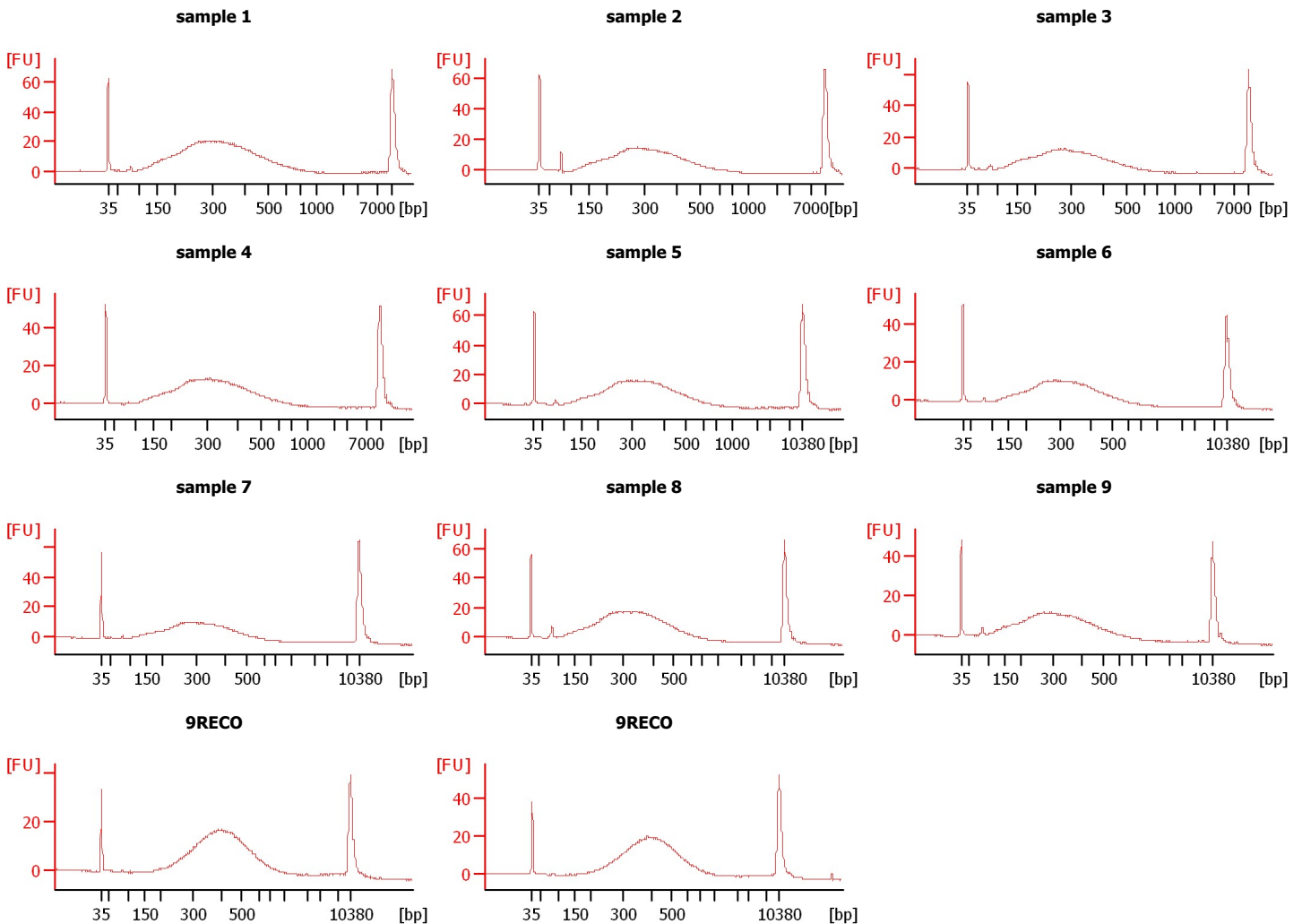### Electrophoresis File Run Summary

Instrument Information:

Instrument Name:	DE13701086
Serial#:	DE13701086

Firmware: C.01.069
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:

sample 1

sample 2

sample 3

sample 4

sample 5

sample 6

sample 7

sample 8

sample 9

9RECO

9RECO

Assay Class: High Sensitivity DNA Assay   Created: 5/22/2014 1:32:27 PM
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-22\2014-05-22_001.xad   Modified: 5/22/2014 2:13:50 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		☐	✔			
sample 2		☐	✔			
sample 3		☐	✔			
sample 4		☐	✔			
sample 5		☐	✔			
sample 6		☐	✔			
sample 7		☐	✔			
sample 8		☐	✔			
sample 9		☐	✔			
9RECO		☐	✔			
9RECO		☐	✔			
Ladder		☐	✔			

Chip Lot #   **Reagent Kit Lot #**

Chip Comments :

		Created:	5/22/2014 1:32:27 PM

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-22\2014-05-22_001.xad

Created: 5/22/2014 1:32:27 PM
Modified: 5/22/2014 2:13:50 PM

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
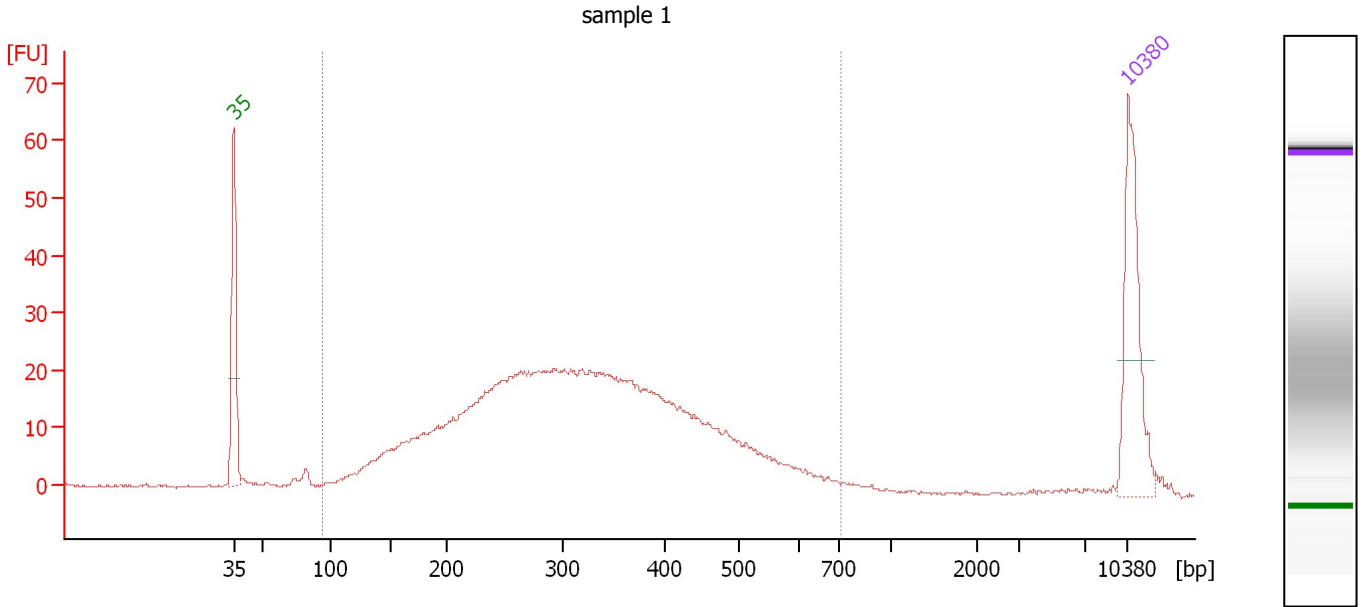Filter Width [s] : 0.5
Polynomial Order : 4

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   Created: 5/22/2014 1:32:27 PM
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-22\2014-05-22_001.xad   Modified: 5/22/2014 2:13:50 PM

Electropherogram Summary

sample 1

Overall Results for sample 1 :   <u>sample 1</u>

Number of peaks found:	0	Corr. Area 1:	723.3
Noise:	0.2		

Peak table for sample 1 :   <u>sample 1</u>

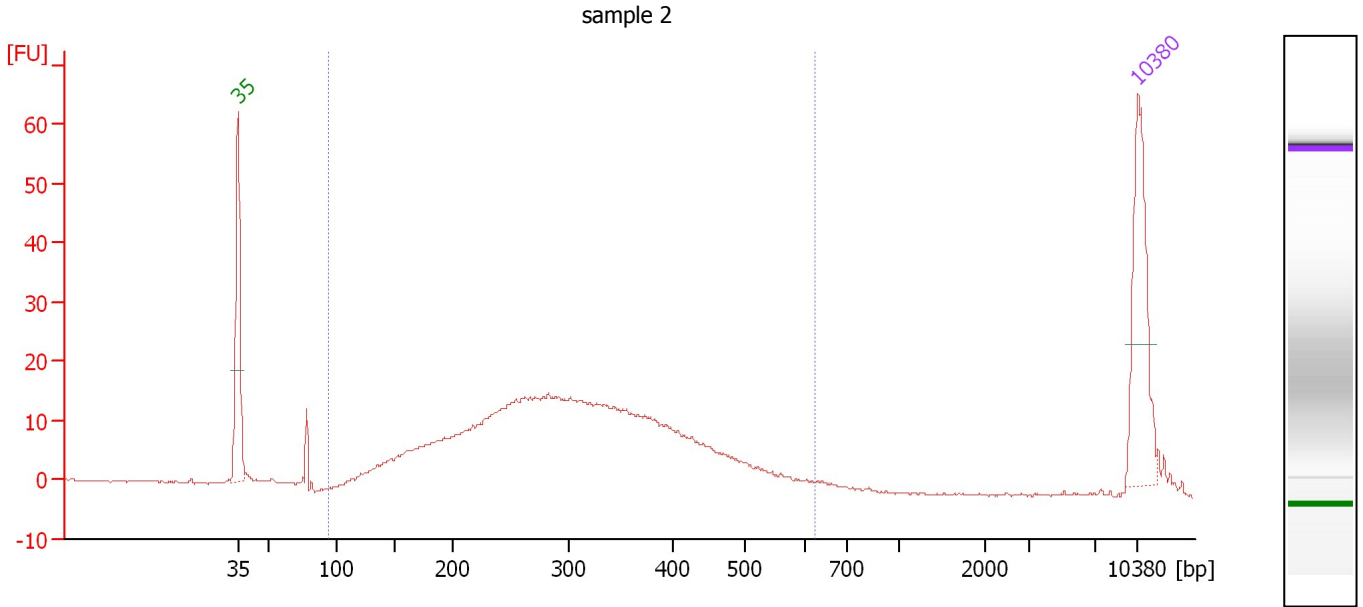| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2	▶🔒	10,380	75.00	10.9	Upper Marker

Region table for sample 1 :   <u>sample 1</u>

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
93	702	326	5,984.8	1,059.00	■ 723.3	97	34.3

Assay Class: High Sensitivity DNA Assay   Created: 5/22/2014 1:32:27 PM
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-22\2014-05-22_001.xad   Modified: 5/22/2014 2:13:50 PM

Electropherogram Summary Continued ...

sample 2

Overall Results for sample 2 :   sample 2

Number of peaks found:	0	Corr. Area 1:	469.3
Noise:	0.2		

Peak table for sample 2 :   sample 2

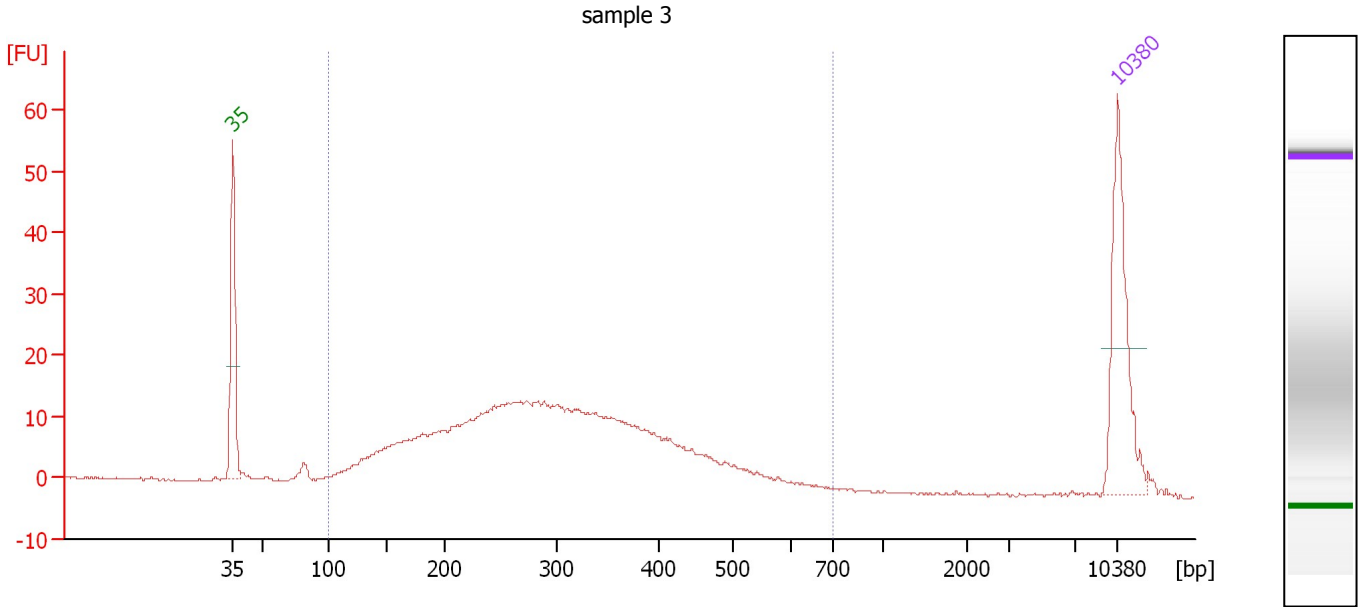| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2	▶🔒	10,380	75.00	10.9	Upper Marker

Region table for sample 2 :   sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
95	624	312	4,398.3	770.52	🟦 469.3	96	31.2

Electropherogram Summary Continued ...

sample 3

Overall Results for sample 3 :   sample 3

Number of peaks found:	0	Corr. Area 1:	461.7
Noise:	0.2		

Peak table for sample 3 :   sample 3

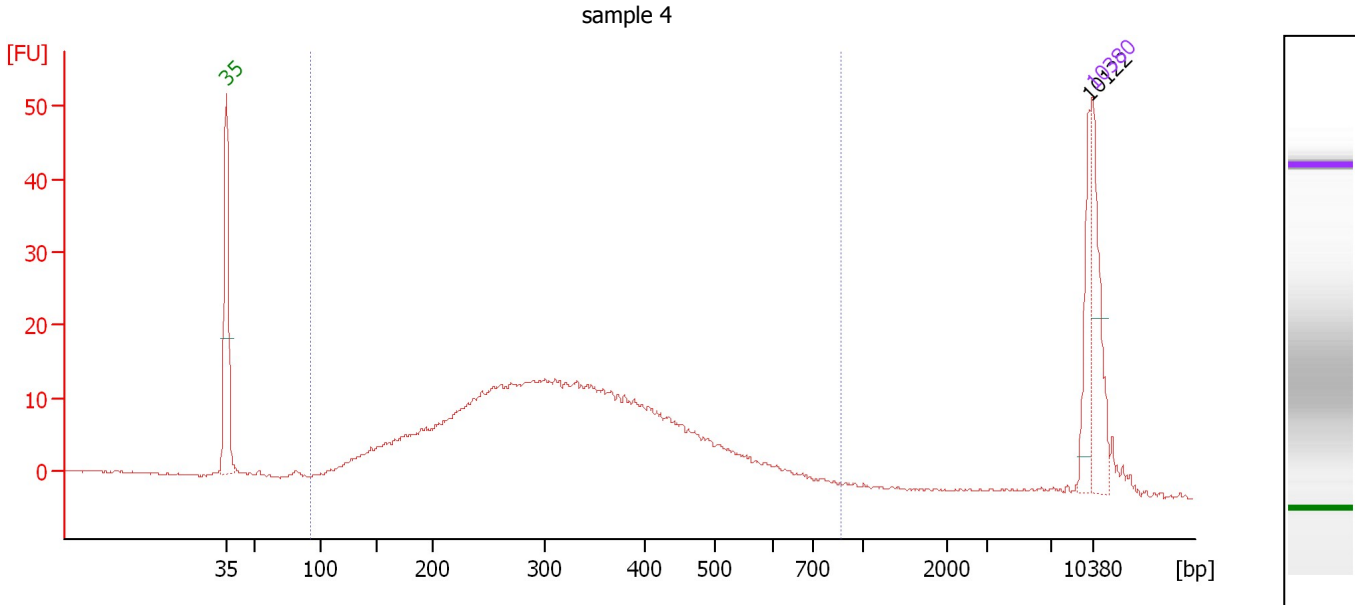| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2	▶🔒	10,380	75.00	10.9	Upper Marker

Region table for sample 3 :   sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
100	700	305	4,568.7	753.01	461.7	96	35.0

Electropherogram Summary Continued ...

sample 4

Overall Results for sample 4 :   sample 4

Number of peaks found:	1	Corr. Area 1:	477.7
Noise:	0.2		

Peak table for sample 4 :   sample 4

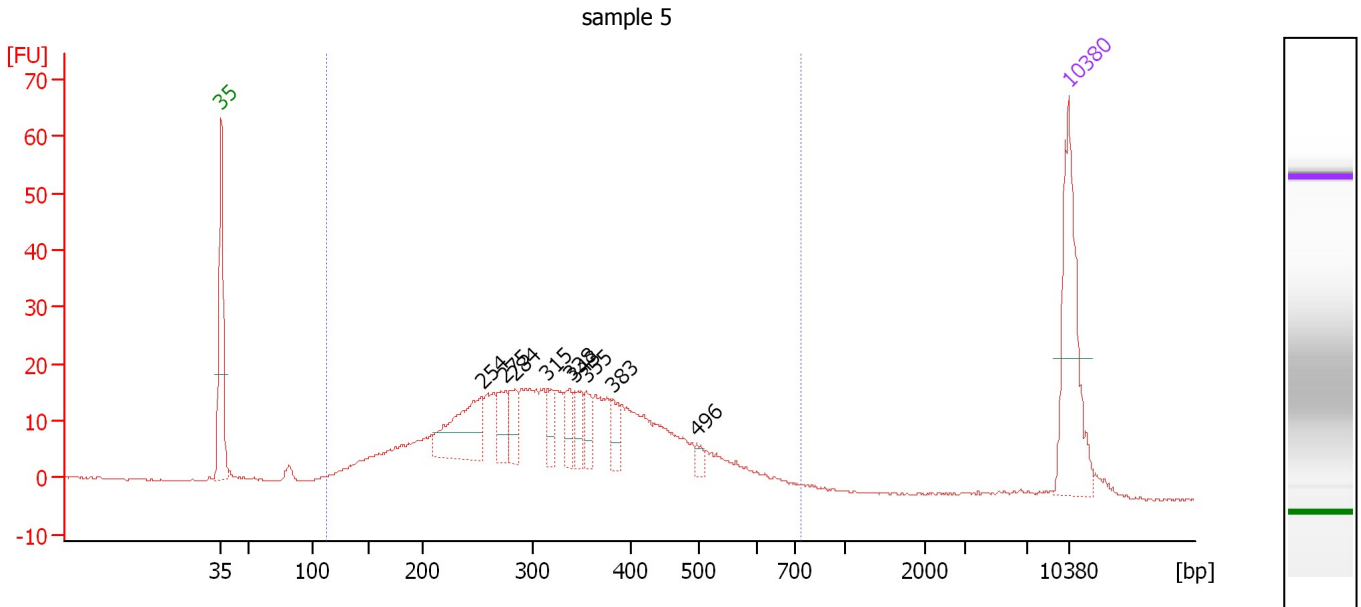| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		10,122	48.99	7.3	
3	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 4 :   sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
93	859	333	7,725.6	1,383.29	477.7	91	35.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-22\2014-05-22_001.xad

Created: 5/22/2014 1:32:27 PM
Modified: 5/22/2014 2:13:50 PM

Electropherogram Summary Continued ...

sample 5

Overall Results for sample 5 :   sample 5

Number of peaks found:	9	Corr. Area 1:	562.3
Noise:	0.1		

Peak table for sample 5 :   sample 5

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		254	75.08	448.7	
3		275	28.28	155.8	
4		284	23.63	125.9	
5		315	15.57	74.8	
6		338	19.46	87.1	
7		343	20.25	89.4	
8		355	17.18	73.3	
9		383	14.79	58.6	
10		496	6.17	18.8	
11	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 5 :   sample 5

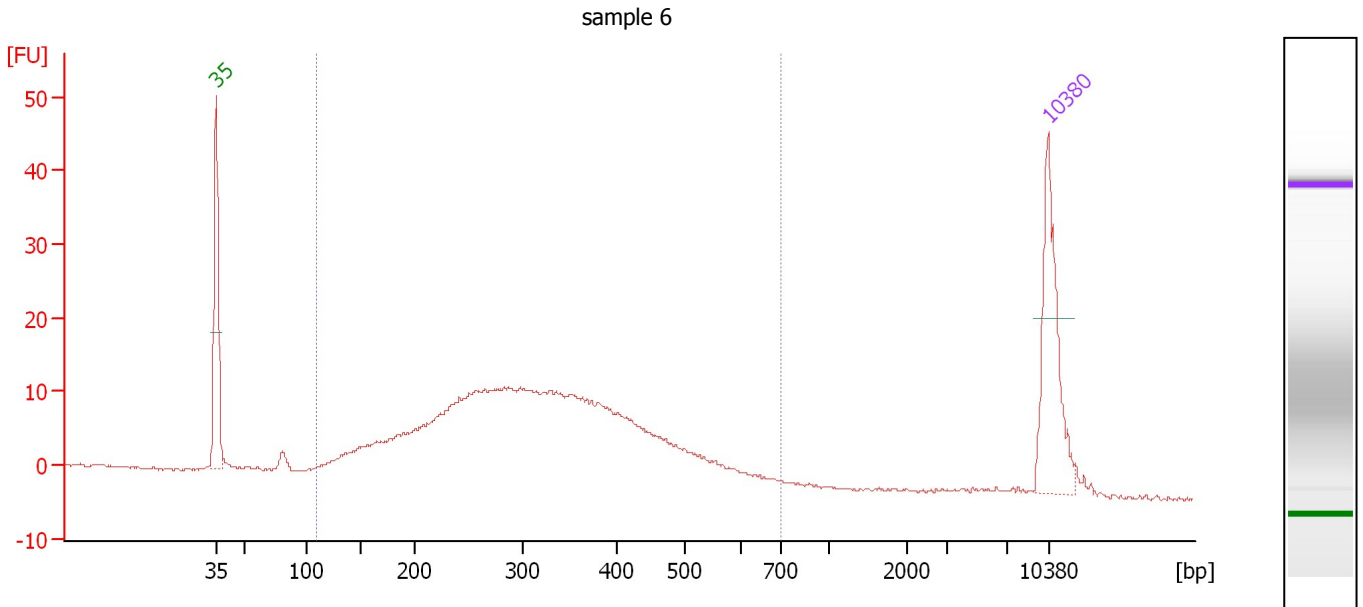| From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
111	728	334	4,293.4	791.49	▪ 562.3	97	32.9

Assay Class: High Sensitivity DNA Assay   Created: 5/22/2014 1:32:27 PM
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-22\2014-05-22_001.xad   Modified: 5/22/2014 2:13:50 PM

Electropherogram Summary Continued ...

sample 6

Overall Results for sample 6 :   sample 6

Number of peaks found:	0	Corr. Area 1:	390.4
Noise:	0.1		

Peak table for sample 6 :   sample 6

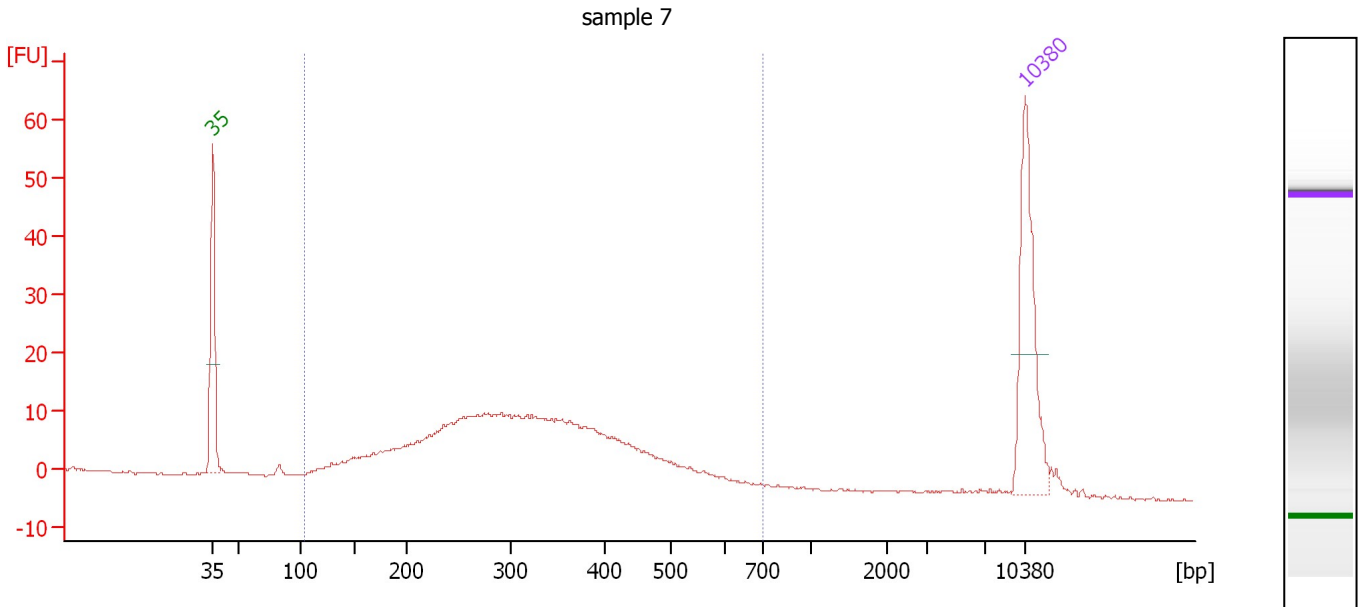| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 6 :   sample 6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
109	701	325	4,246.7	763.38	■ 390.4	97	32.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-22\2014-05-22_001.xad

Created: 5/22/2014 1:32:27 PM
Modified: 5/22/2014 2:13:50 PM

Electropherogram Summary Continued ...

sample 7

Overall Results for sample 7 :   **sample 7**

Number of peaks found:	0	Corr. Area 1:	359.6
Noise:	0.2		

Peak table for sample 7 :   **sample 7**

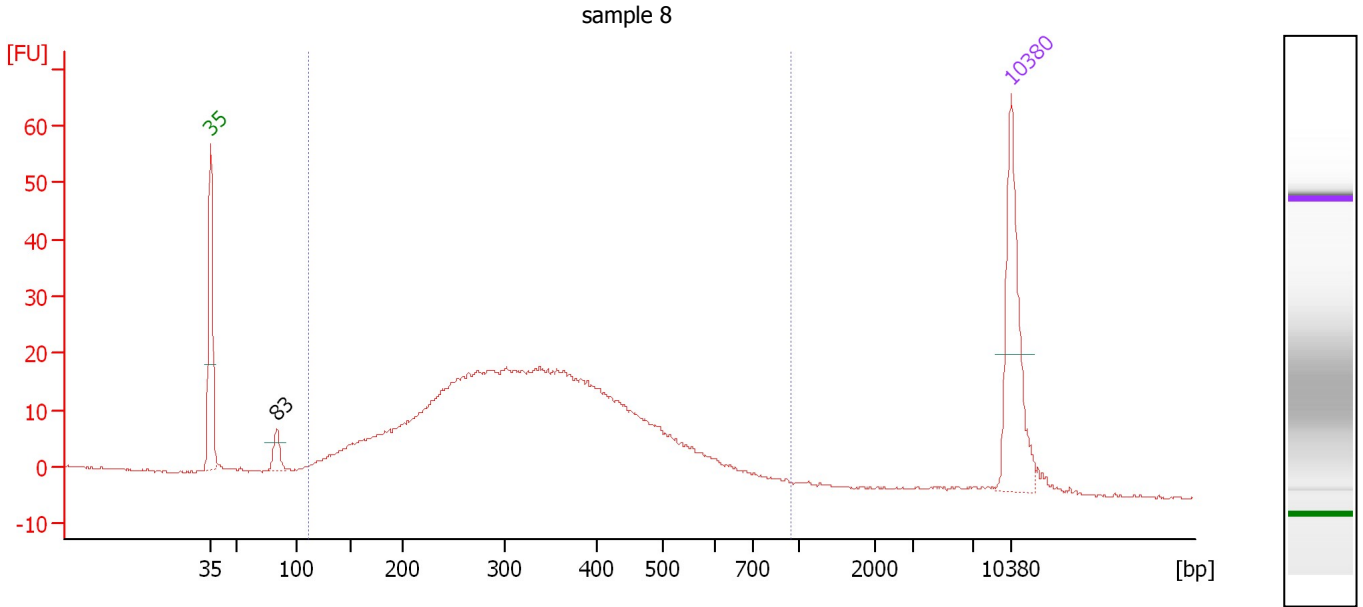| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 7 :   **sample 7**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
104	698	324	2,883.4	517.12	359.6	96	32.4

Electropherogram Summary Continued ...

sample 8

Overall Results for sample 8 :   sample 8

Number of peaks found:	1	Corr. Area 1:	647.5
Noise:	0.2		

Peak table for sample 8 :   sample 8

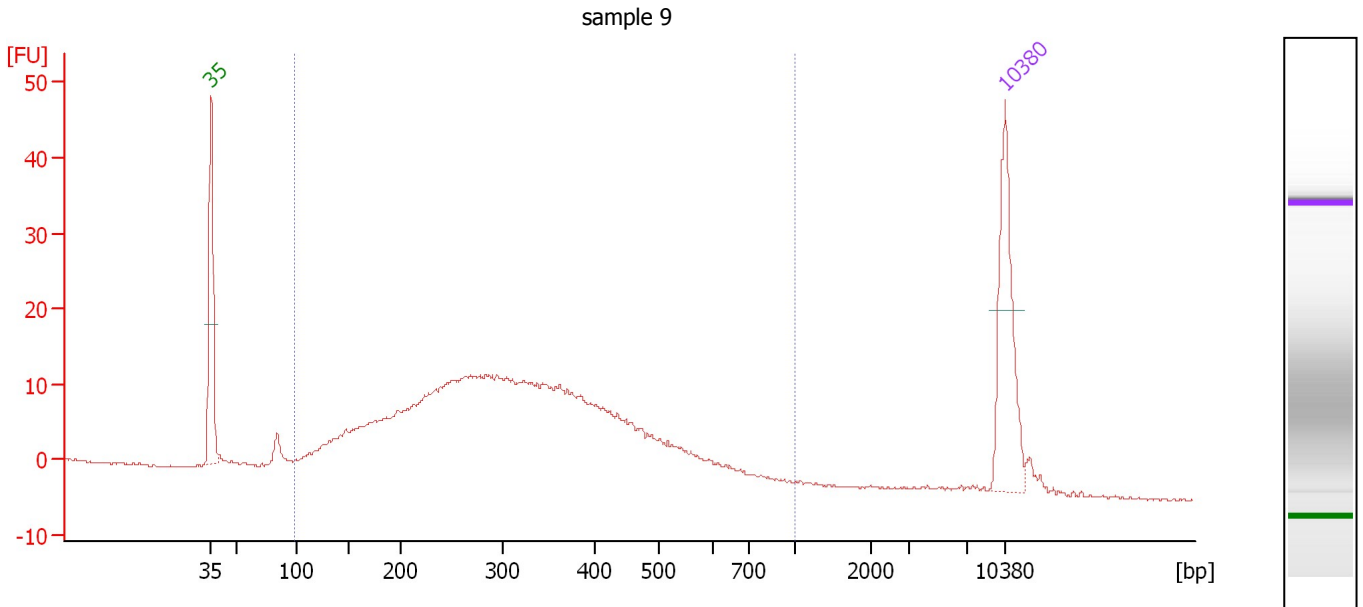| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		83	19.54	357.4	
3	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 8 :   sample 8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
110	951	344	5,173.2	965.00	647.5	95	35.8

Electropherogram Summary Continued ...

sample 9

Overall Results for sample 9 :   sample 9

Number of peaks found:	0	Corr. Area 1:	462.1
Noise:	0.2		

Peak table for sample 9 :   sample 9

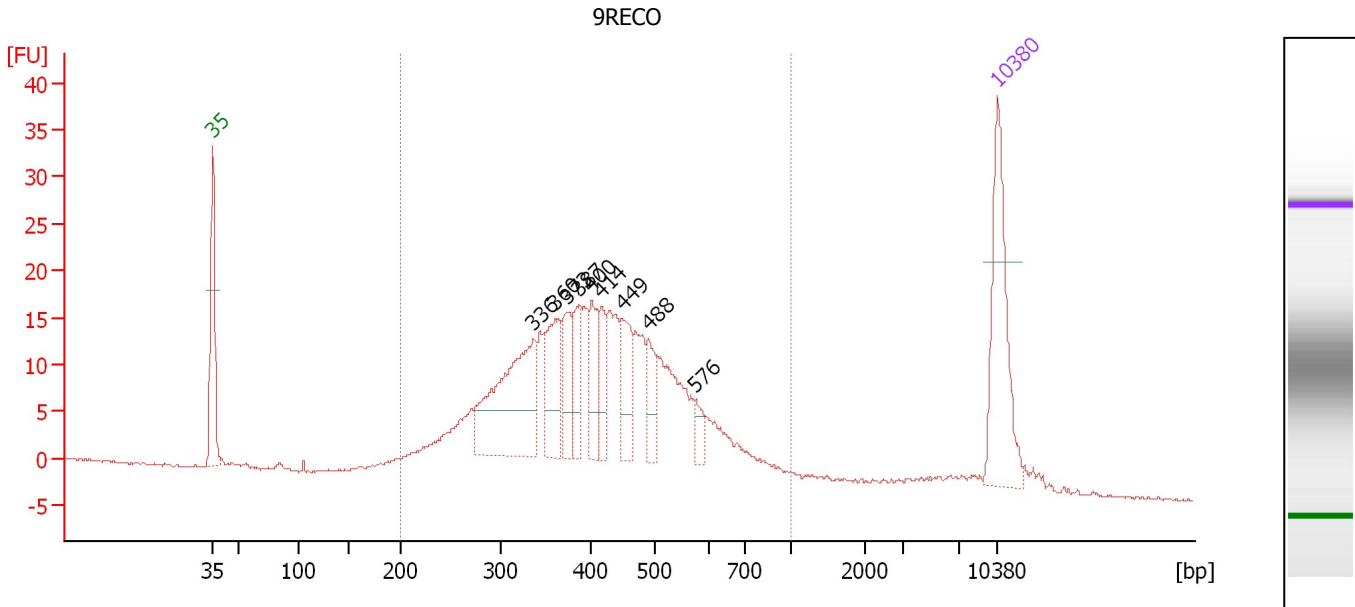| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 9 :   sample 9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
97	1,000	330	5,392.7	927.67	■ 462.1	94	39.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-22\2014-05-22_001.xad

Created: 5/22/2014 1:32:27 PM
Modified: 5/22/2014 2:13:50 PM

Electropherogram Summary Continued ...

9RECO

Overall Results for sample 10 : 9RECO

Number of peaks found:	9	Corr. Area 1:	432.8
Noise:	0.2		

Peak table for sample 10 : 9RECO

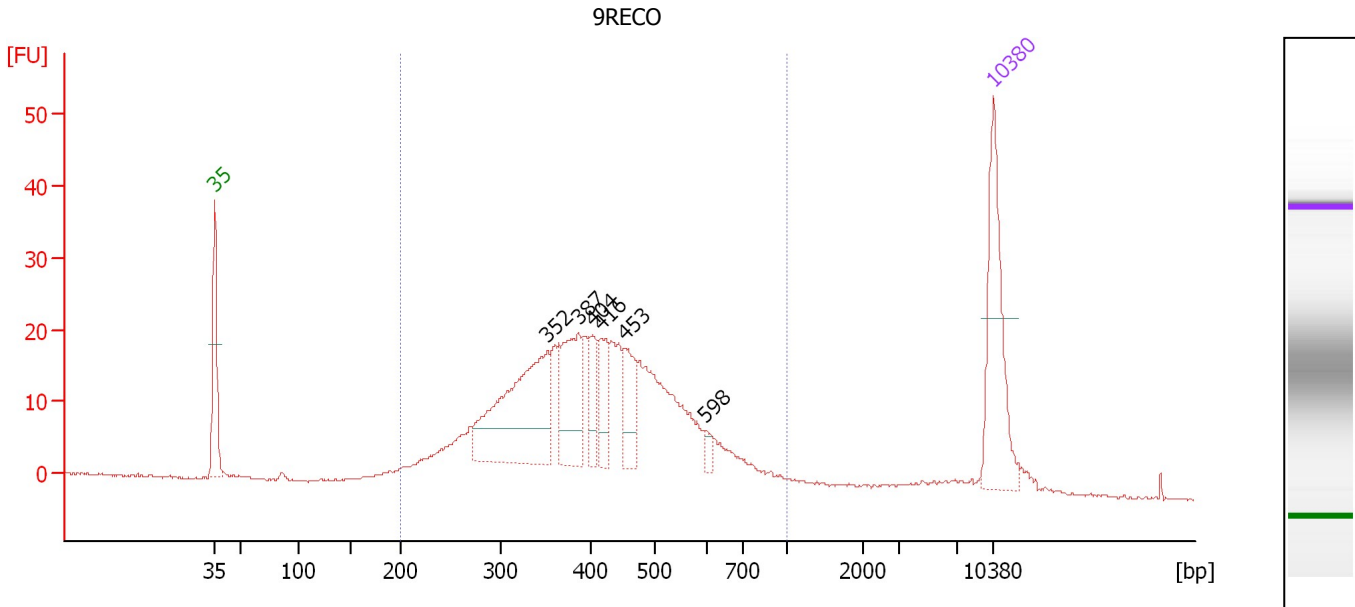| Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		336	145.82	657.5	
3		360	59.09	248.5	
4		373	38.09	154.9	
5		387	32.54	127.5	
6		400	37.81	143.1	
7		414	27.17	99.3	
8		449	39.88	134.7	
9		488	26.70	82.8	
10		576	11.80	31.0	
11	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 10 : 9RECO

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	423	3,594.5	898.59	▪ 432.8	94	29.0

Electropherogram Summary Continued ...

Overall Results for sample 11 :   9RECO

Number of peaks found:	6	Corr. Area 1:	500.6
Noise:	0.1		

Peak table for sample 11 :   9RECO

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◄	35	125.00	5,411.3	Lower Marker
2		352	166.37	716.1	
3		387	77.80	304.6	
4		404	28.24	106.0	
5		416	34.36	125.1	
6		453	39.06	130.7	
7		598	7.75	19.6	
8	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 11 :   9RECO

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	422	3,310.9	825.12	■ 500.6	92	29.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-22\2014-05-22_001.xad

Created: 5/22/2014 1:32:27 PM
Modified: 5/22/2014 2:13:50 PM

Gel Image