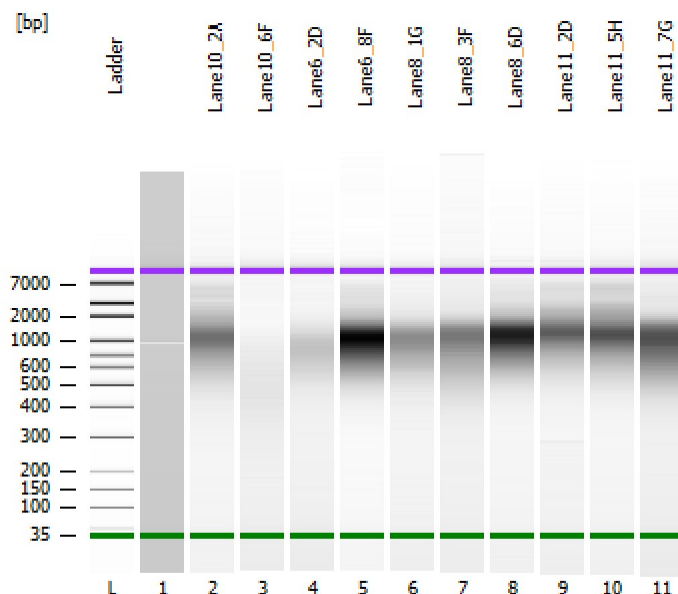


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
Modified: 6/17/2015 11:42:58 AM

Electrophoresis File Run SummaryInstrument Information:

Instrument Name: DE72901420
Serial#: DE72901420

Firmware: C.01.069
Type: G2939A

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

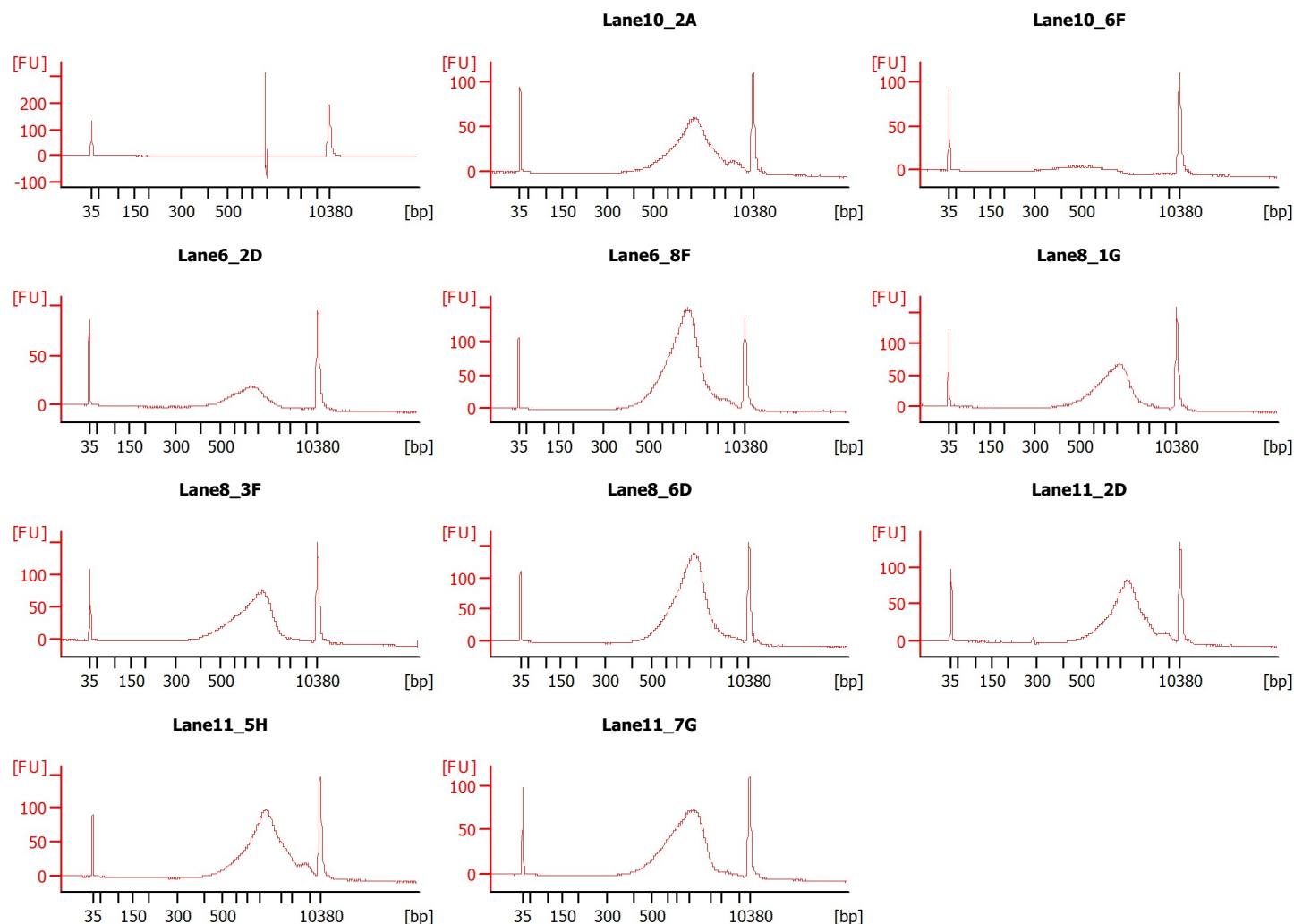
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
Modified: 6/17/2015 11:42:58 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Lane10_2A		<input type="checkbox"/>	✓			
Lane10_6F		<input type="checkbox"/>	✓			
Lane6_2D		<input type="checkbox"/>	✓			
Lane6_8F		<input type="checkbox"/>	✓			
Lane8_1G		<input type="checkbox"/>	✓			
Lane8_3F		<input type="checkbox"/>	✓			
Lane8_6D		<input type="checkbox"/>	✓			
Lane11_2D		<input type="checkbox"/>	✓			
Lane11_5H		<input type="checkbox"/>	✓			
Lane11_7G		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
Modified: 6/17/2015 11:42:58 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

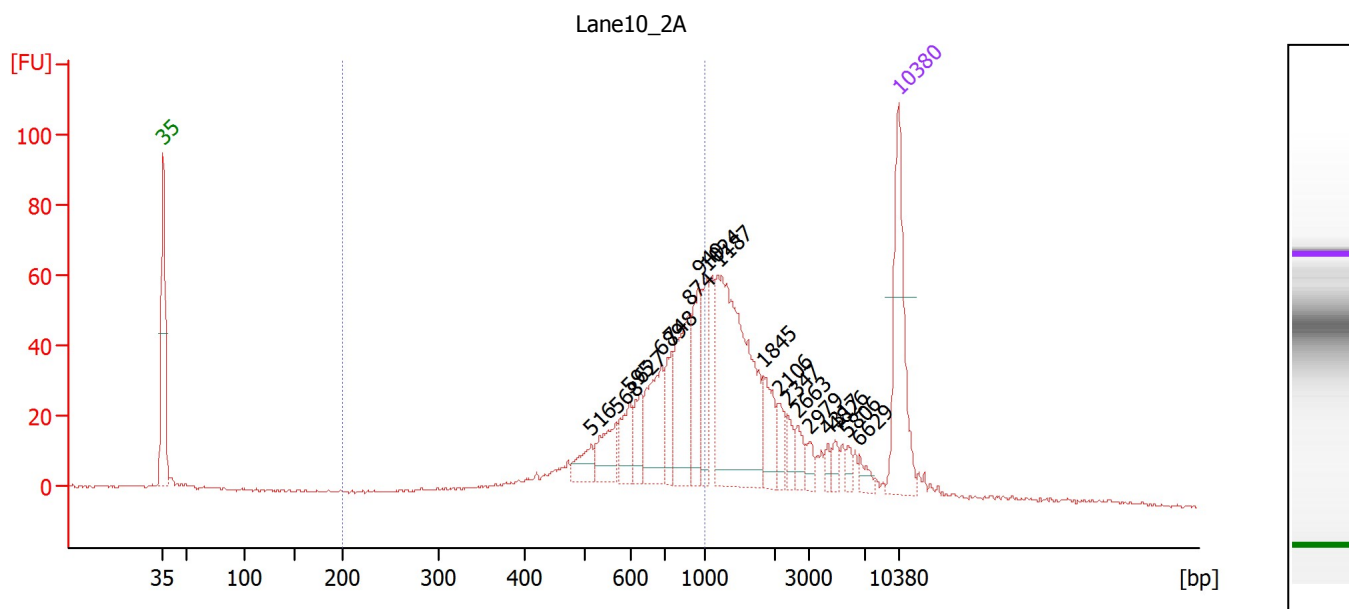
Ladder

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:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
 Modified: 6/17/2015 11:42:58 AM

Electropherogram Summary



Overall Results for sample 2 : Lane10_2A

Number of peaks found: 19 Corr. Area 1: 502.7
 Noise: 0.3

Peak table for sample 2 : Lane10_2A

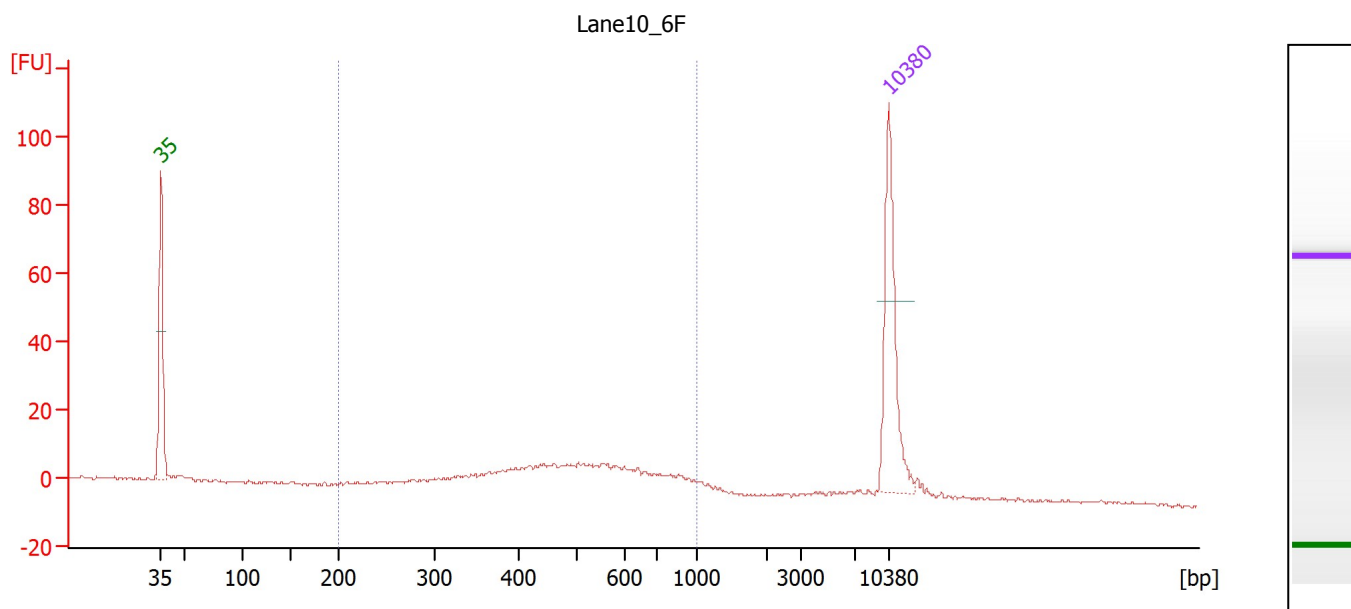
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	516	18.93	55.6	
3	568	32.16	85.7	
4	595	28.49	72.5	
5	627	23.33	56.4	
6	689	58.82	129.3	
7	748	30.60	62.0	
8	874	67.09	116.3	
9	949	44.81	71.5	
10	1,024	36.91	54.6	
11	1,187	171.79	219.4	
12	1,845	27.18	22.3	
13	2,106	13.26	9.5	
14	2,347	11.03	7.1	
15	2,663	10.64	6.1	
16	2,979	7.77	4.0	
17	4,317	5.47	1.9	
18	4,826	6.82	2.1	
19	5,806	5.44	1.4	
20	6,629	7.45	1.7	
21	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : Lane10_2A

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	502.7	48	691	25.7	443.26	1,086.3	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
Modified: 6/17/2015 11:42:58 AM

Electropherogram Summary Continued ...**Overall Results for sample 3 : Lane10_6F**

Number of peaks found: 0 Corr. Area 1: 202.1
Noise: 0.4

Peak table for sample 3 : Lane10_6F

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

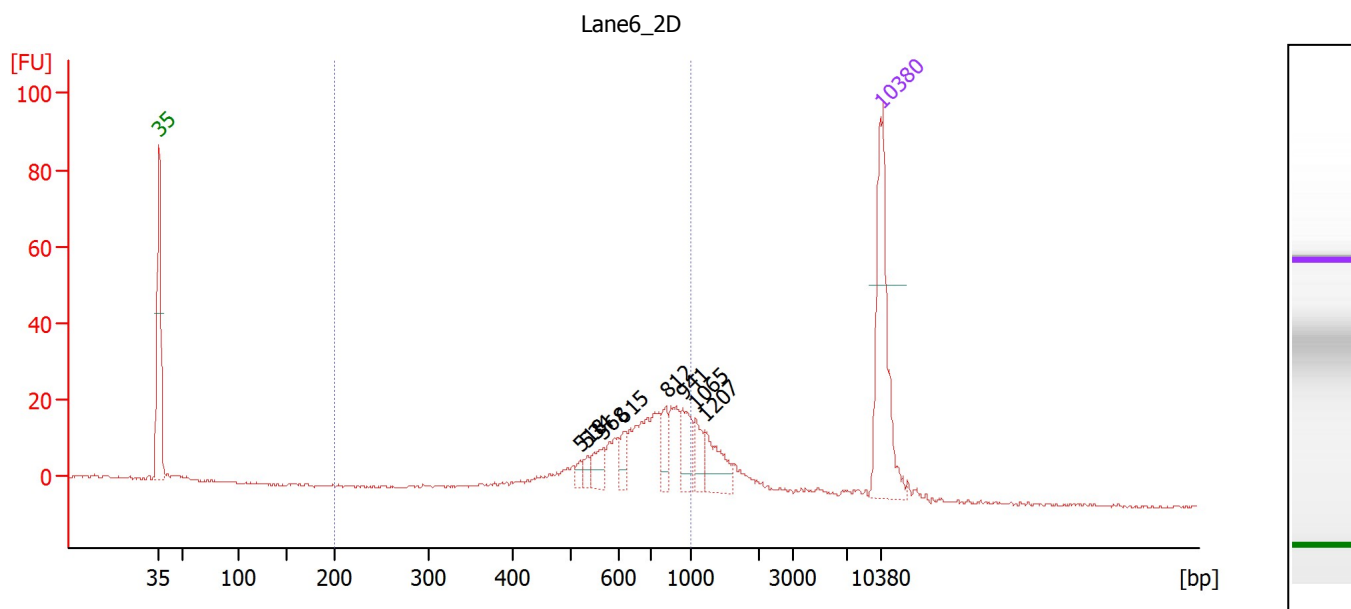
Region table for sample 3 : Lane10_6F

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	202.1	75	510	32.6	186.90	646.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
 Modified: 6/17/2015 11:42:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Lane6_2D

Number of peaks found: 8 Corr. Area 1: 228.7
 Noise: 0.4

Peak table for sample 4 : Lane6_2D

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	518	5.68	16.6	
3	534	5.83	16.5	
4	568	14.46	38.5	
5	615	11.08	27.3	
6	812	16.11	30.1	
7	941	22.70	36.6	
8	1,065	14.70	20.9	
9	1,207	24.47	30.7	
10	10,380	75.00	10.9	Upper Marker

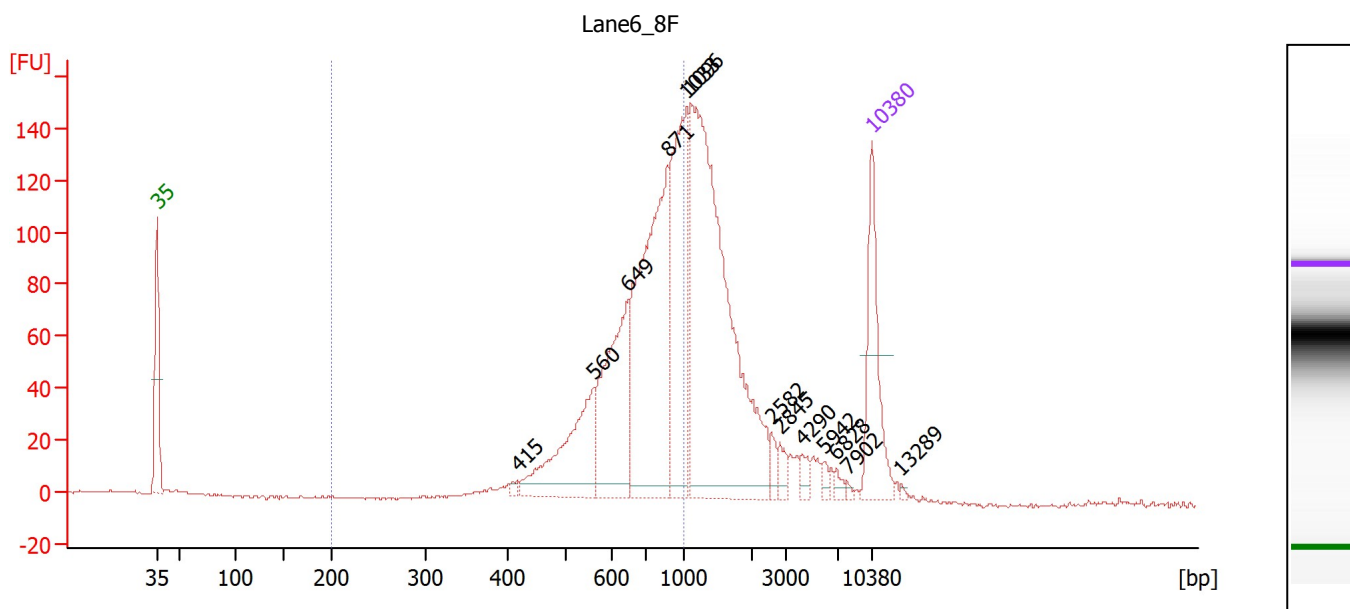
Region table for sample 4 : Lane6_2D

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	228.7	70	689	22.8	197.73	466.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
 Modified: 6/17/2015 11:42:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Lane6_8F

Number of peaks found: 13 Corr. Area 1: 1,067.1
 Noise: 0.4

Peak table for sample 5 : Lane6_8F

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	415	3.95	14.4	
3	560	119.73	324.1	
4	649	149.34	348.5	
5	871	277.36	482.7	
6	1,033	162.17	237.9	
7	1,096	421.17	582.0	
8	2,582	9.55	5.6	
9	2,845	10.03	5.3	
10	4,290	8.99	3.2	
11	5,942	5.55	1.4	
12	6,828	5.23	1.2	
13	7,902	1.77	0.3	
14	10,380	75.00	10.9	Upper Marker
15	13,289	0.00	0.0	

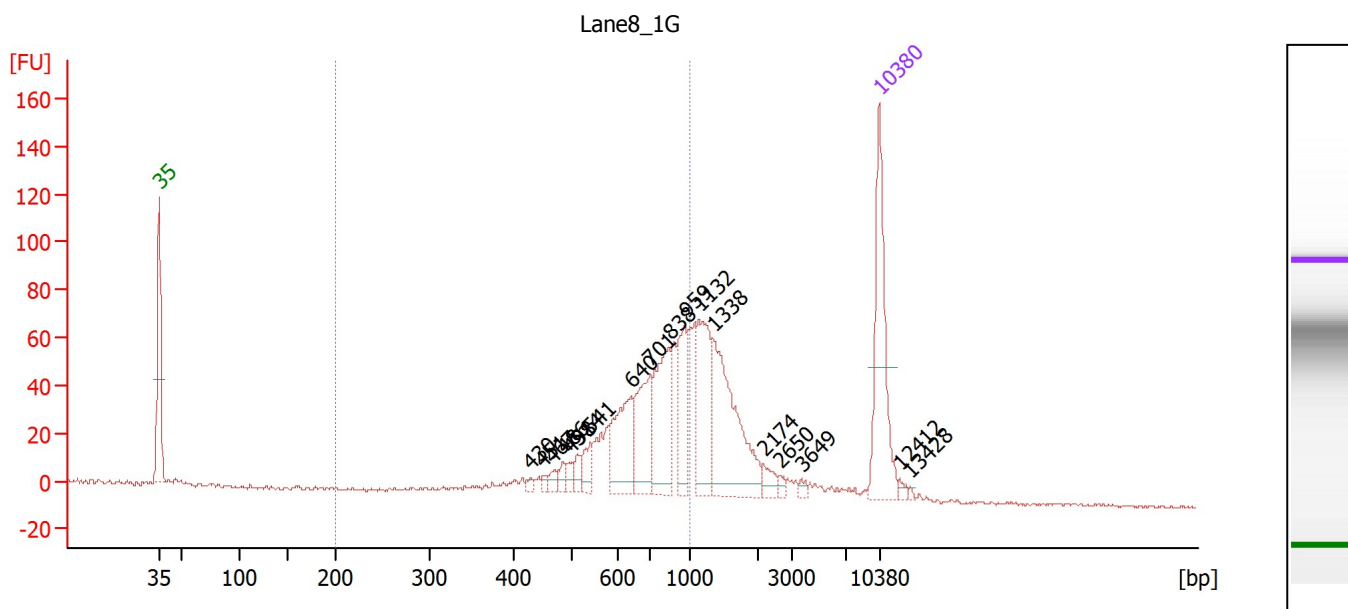
Region table for sample 5 : Lane6_8F

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,067.1	55	722	21.9	721.05	1,617.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
 Modified: 6/17/2015 11:42:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Lane8_1G

Number of peaks found: 18 Corr. Area 1: 564.8
 Noise: 0.6

Peak table for sample 6 : Lane8_1G

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	430	3.08	10.9	
3	451	4.03	13.5	
4	467	6.75	21.9	
5	486	6.61	20.6	
6	498	6.78	20.7	
7	514	8.52	25.1	
8	541	16.00	44.8	
9	640	58.93	139.5	
10	701	56.60	122.3	
11	838	70.18	126.9	
12	959	42.64	67.4	
13	1,132	61.77	82.6	
14	1,338	97.45	110.3	
15	2,174	8.98	6.3	
16	2,650	3.17	1.8	
17	3,649	3.05	1.3	
18	10,380	75.00	10.9	Upper Marker
19	12,412	0.00	0.0	
20	13,428	0.00	0.0	

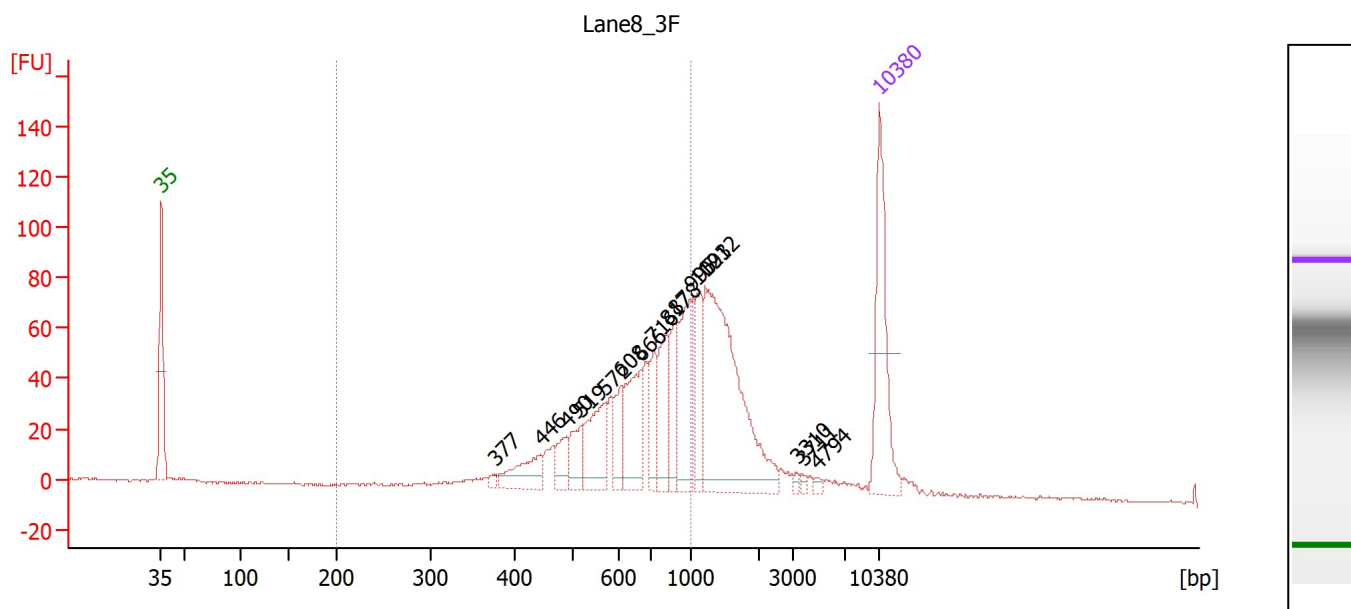
Region table for sample 6 : Lane8_1G

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	564.8	58	711	22.2	348.38	794.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
 Modified: 6/17/2015 11:42:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Lane8_3F

Number of peaks found: 16 Corr. Area 1: 732.1
 Noise: 0.4

Peak table for sample 7 : Lane8_3F

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	377	3.44	13.8	
3	446	34.52	117.4	
4	490	21.15	65.3	
5	519	26.57	77.6	
6	572	49.26	130.6	
7	608	26.24	65.3	
8	666	58.50	133.2	
9	716	28.00	59.2	
10	817	43.47	80.6	
11	878	37.42	64.6	
12	995	68.70	104.6	
13	1,093	41.21	57.1	
14	1,212	190.86	238.7	
15	3,310	2.79	1.3	
16	3,711	2.55	1.0	
17	4,794	2.75	0.9	
18	10,380	75.00	10.9	Upper Marker

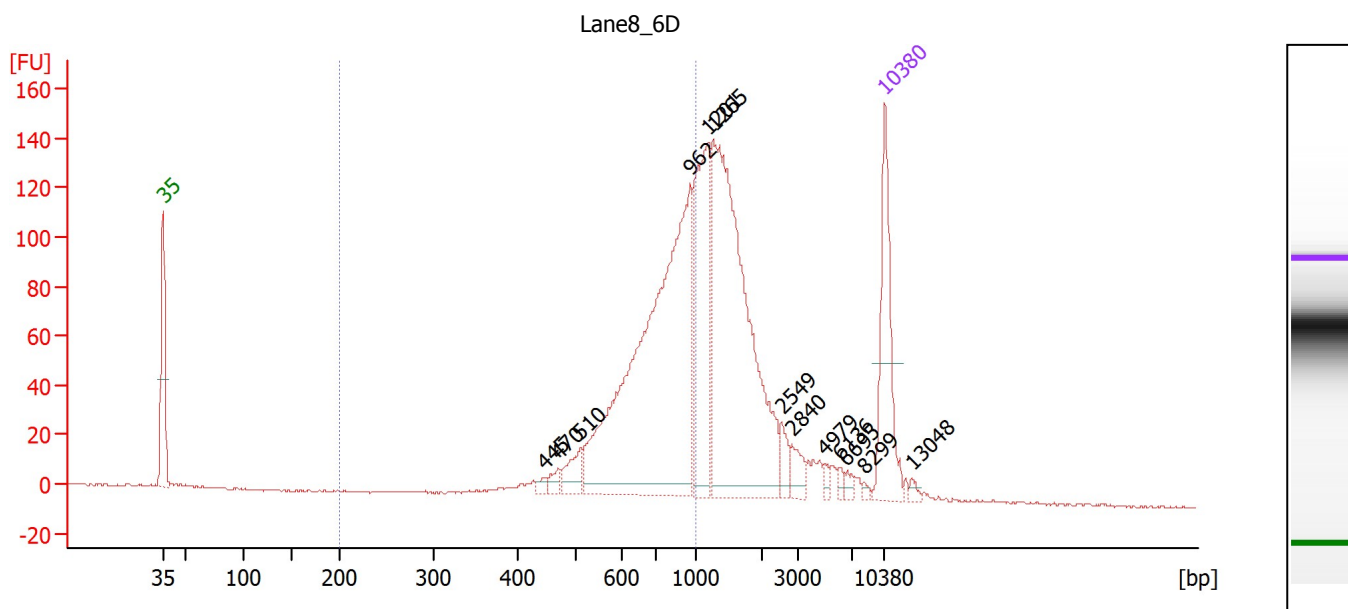
Region table for sample 7 : Lane8_3F

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	732.1	59	670	25.9	471.48	1,182.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
 Modified: 6/17/2015 11:42:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Lane8_6D

Number of peaks found: 13 Corr. Area 1: 855.6
 Noise: 0.4

Peak table for sample 8 : Lane8_6D

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	445	5.27	17.9	
3	470	8.47	27.3	
4	510	23.14	68.8	
5	962	414.89	653.5	
6	1,201	134.42	169.5	
7	1,265	327.31	392.2	
8	2,549	13.35	7.9	
9	2,840	13.70	7.3	
10	4,979	4.49	1.4	
11	6,136	4.20	1.0	
12	6,695	4.78	1.1	
13	8,299	2.28	0.4	
14	10,380	75.00	10.9	Upper Marker
15	13,048	0.00	0.0	

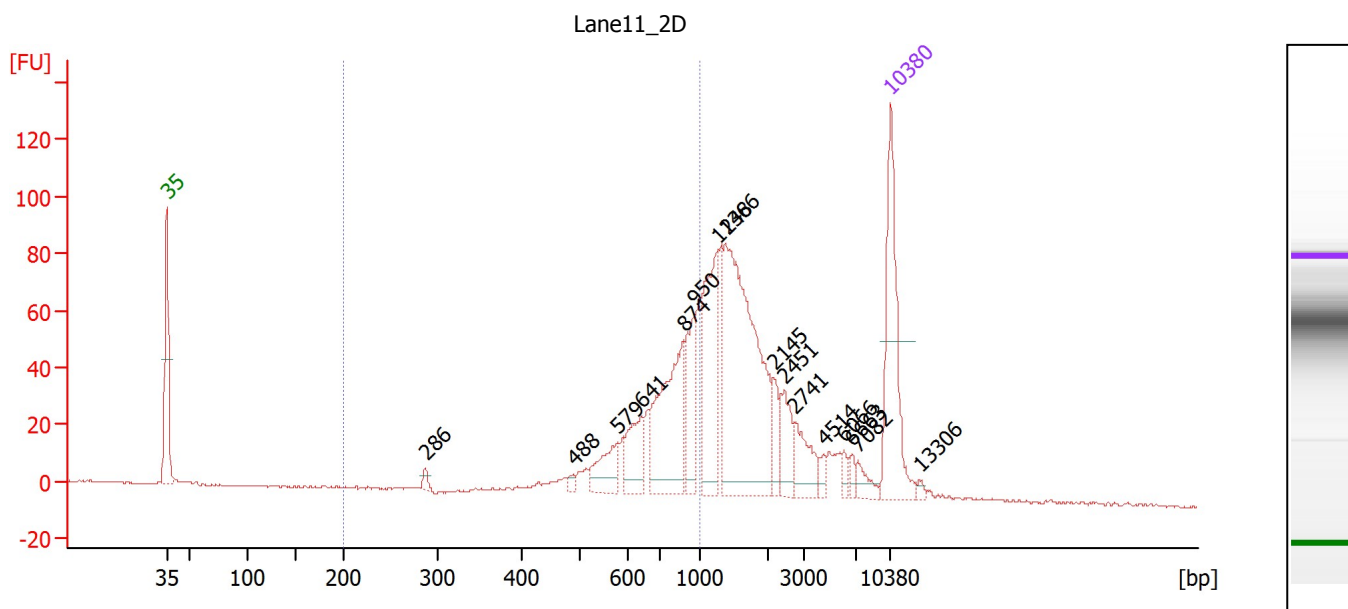
Region table for sample 8 : Lane8_6D

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	855.6	47	730	21.3	531.81	1,175.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
 Modified: 6/17/2015 11:42:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Lane11_2D

Number of peaks found: 16 Corr. Area 1: 427.6
 Noise: 0.4

Peak table for sample 9 : Lane11_2D

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	286	4.95	26.2	
3	488	3.87	12.0	
4	579	28.88	75.6	
5	641	33.87	80.1	
6	874	94.00	162.9	
7	950	38.24	61.0	
8	1,248	79.17	96.1	
9	1,366	190.60	211.3	
10	2,145	14.97	10.6	
11	2,451	22.56	13.9	
12	2,741	24.61	13.6	
13	4,514	5.04	1.7	
14	6,066	5.34	1.3	
15	6,663	4.87	1.1	
16	7,082	9.27	2.0	
17	10,380	75.00	10.9	Upper Marker
18	13,306	0.00	0.0	

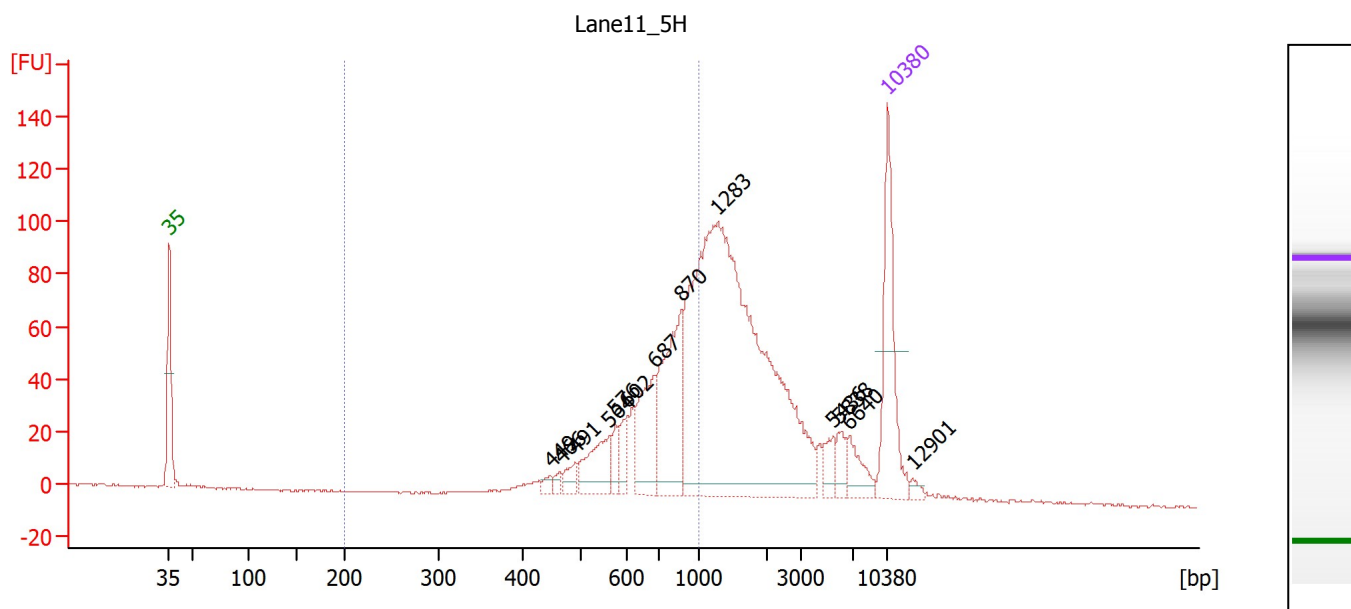
Region table for sample 9 : Lane11_2D

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	427.6	37	725	23.3	287.73	663.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
 Modified: 6/17/2015 11:42:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Lane11_5H

Number of peaks found: 13 Corr. Area 1: 580.9
 Noise: 0.3

Peak table for sample 10 : Lane11_5H

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	449	6.04	20.4	
3	466	5.09	16.6	
4	491	12.83	39.6	
5	564	43.80	117.8	
6	576	13.20	34.7	
7	602	18.64	46.9	
8	687	62.93	138.8	
9	870	103.06	179.6	
10	1,283	510.77	603.2	
11	5,436	13.63	3.8	
12	5,838	12.52	3.3	
13	6,640	20.39	4.7	
14	10,380	75.00	10.9	Upper Marker
15	12,901	0.00	0.0	

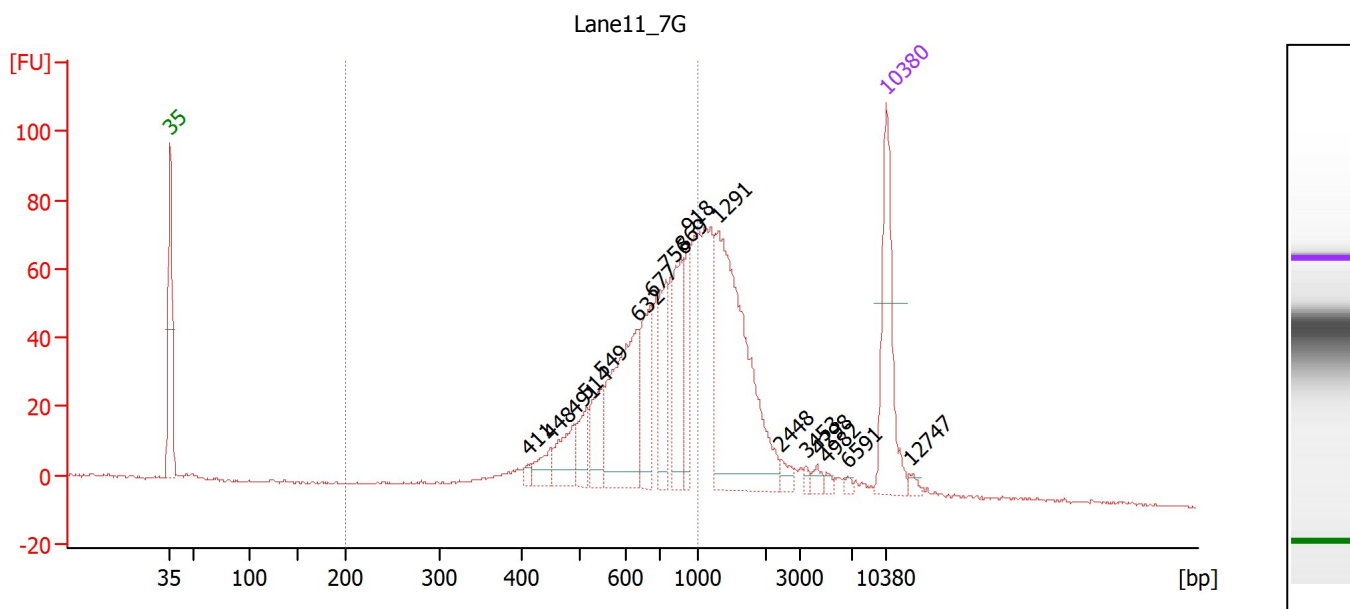
Region table for sample 10 : Lane11_5H

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	580.9	40	721	22.5	387.86	875.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
 Modified: 6/17/2015 11:42:58 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Lane11_7G

Number of peaks found: 17 Corr. Area 1: 727.0
 Noise: 0.4

Peak table for sample 11 : Lane11_7G

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	411	4.78	17.6	
3	448	19.10	64.5	
4	491	36.49	112.7	
5	514	25.32	74.7	
6	549	39.33	108.5	
7	632	124.66	298.7	
8	677	59.61	133.5	
9	756	53.01	106.3	
10	869	61.14	106.6	
11	918	39.62	65.4	
12	1,291	204.91	240.4	
13	2,448	7.31	4.5	
14	3,453	2.98	1.3	
15	4,298	5.44	1.9	
16	4,982	3.25	1.0	
17	6,591	2.48	0.6	
18	10,380	75.00	10.9	Upper Marker
19	12,747	0.00	0.0	

Region table for sample 11 : Lane11_7G

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	727.0	59	679	24.8	616.22	1,509.4	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_DE72901420_2015-06-17_10-54-07.xad

Created: 6/17/2015 10:54:06 AM
Modified: 6/17/2015 11:42:58 AM

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