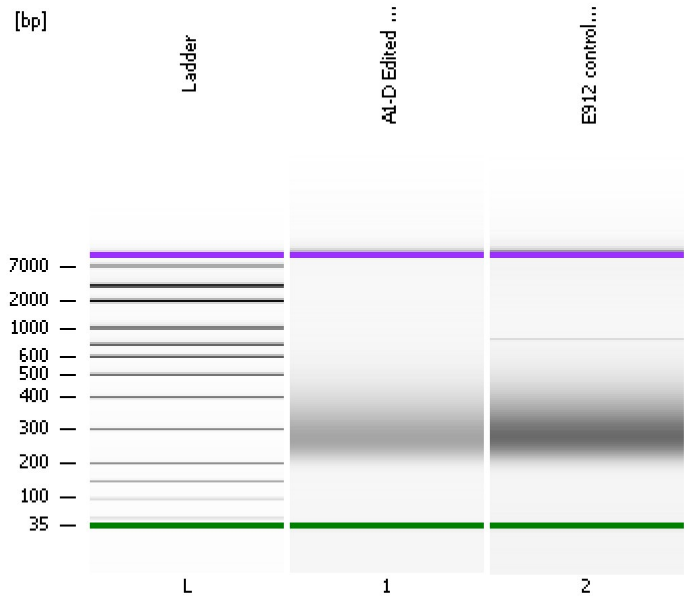
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ings\Bioanalyzer\2015-06-29\2015-06-29_002_HiSeq138Libs.xad

Created: 6/29/2015 2:08:07 PM
Modified: 7/1/2015 3:47:22 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

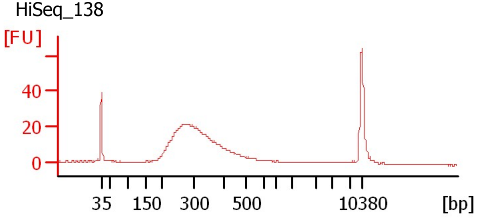
Chip Information:

Chip Lot #:

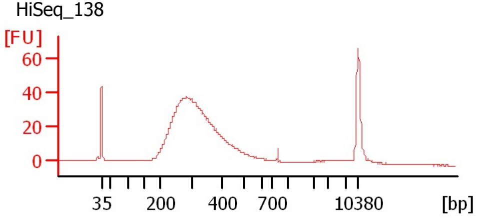
Reagent Kit Lot #:

Chip Comments:

A1-D Edited Library



E912 control Library



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	**Sample Comment**	**Rest. Digest**	**Status**	**Observation**	**Result Label**	**Result Color**
A1-D Edited Library	HiSeq_138	☐	✓			
E912 control Library	HiSeq_138	☐	✓			
Ladder		☐	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

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

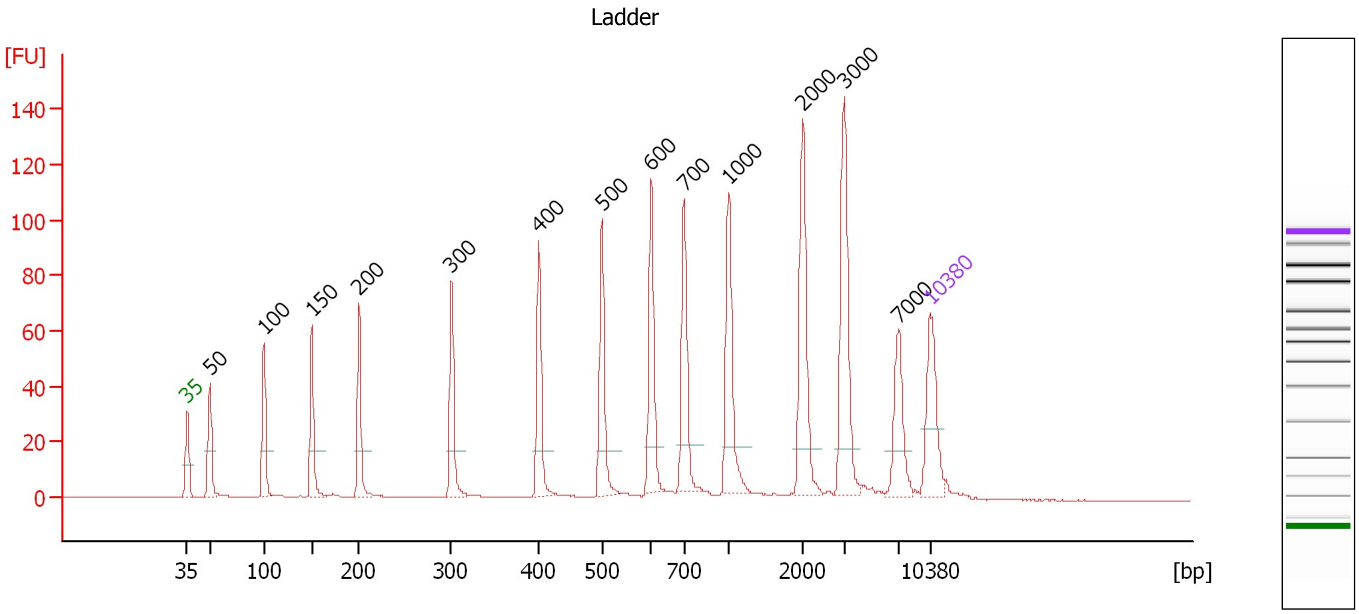
Filter Settings

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

Electropherogram Summary



Overall Results for Ladder

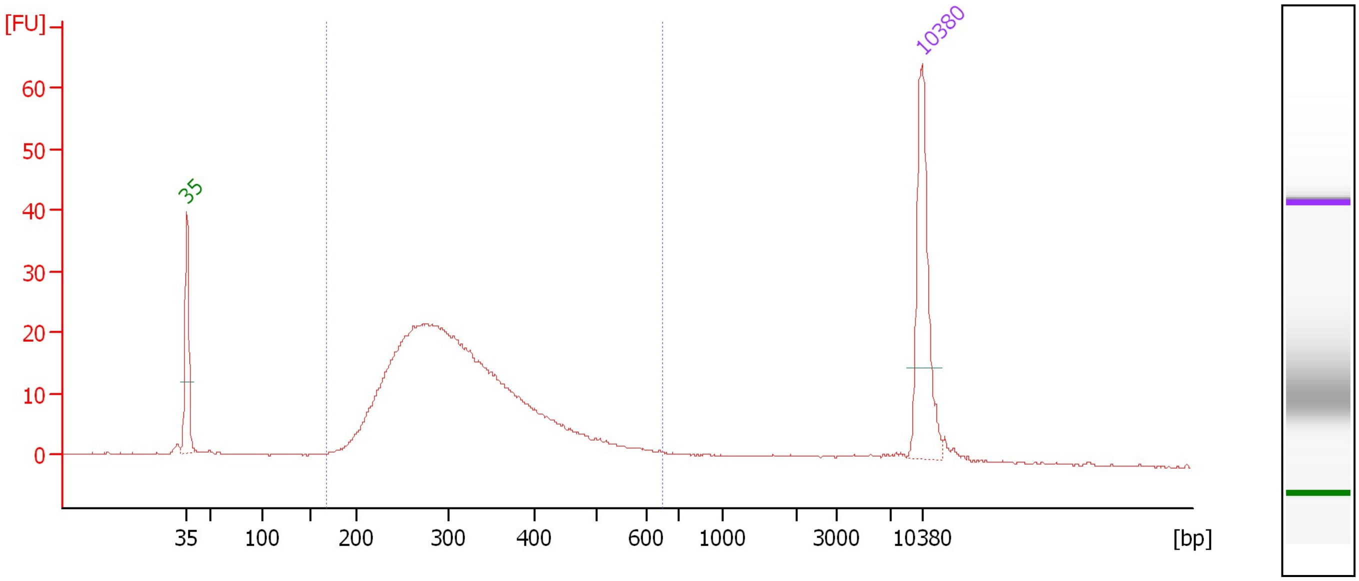
Noise: 0.1

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	45.16
3	∟	100	150.00	2,272.7	Ladder Peak	50.23
4	∟	150	150.00	1,515.2	Ladder Peak	54.75
5	∟	200	150.00	1,136.4	Ladder Peak	59.22
6	∟	300	150.00	757.6	Ladder Peak	67.91
7	∟	400	150.00	568.2	Ladder Peak	76.14
8	∟	500	150.00	454.5	Ladder Peak	82.07
9	∟	600	150.00	378.8	Ladder Peak	86.74
10	∟	700	150.00	324.7	Ladder Peak	89.80
11	∟	1,000	150.00	227.3	Ladder Peak	94.02
12	∟	2,000	150.00	113.6	Ladder Peak	101.00
13	∟	3,000	150.00	75.8	Ladder Peak	104.92
14	∟	7,000	150.00	32.5	Ladder Peak	110.04
15	▶	10,380	75.00	10.9	Upper Marker	113.00

Electropherogram Summary Continued ...

A1-D Edited Library [HiSeq_138]



Overall Results for sample 1 : A1-D Edited Library

Number of peaks found:	0	Corr. Area 1:	441.7
Noise:	0.1		

Peak table for sample 1 : A1-D Edited Library

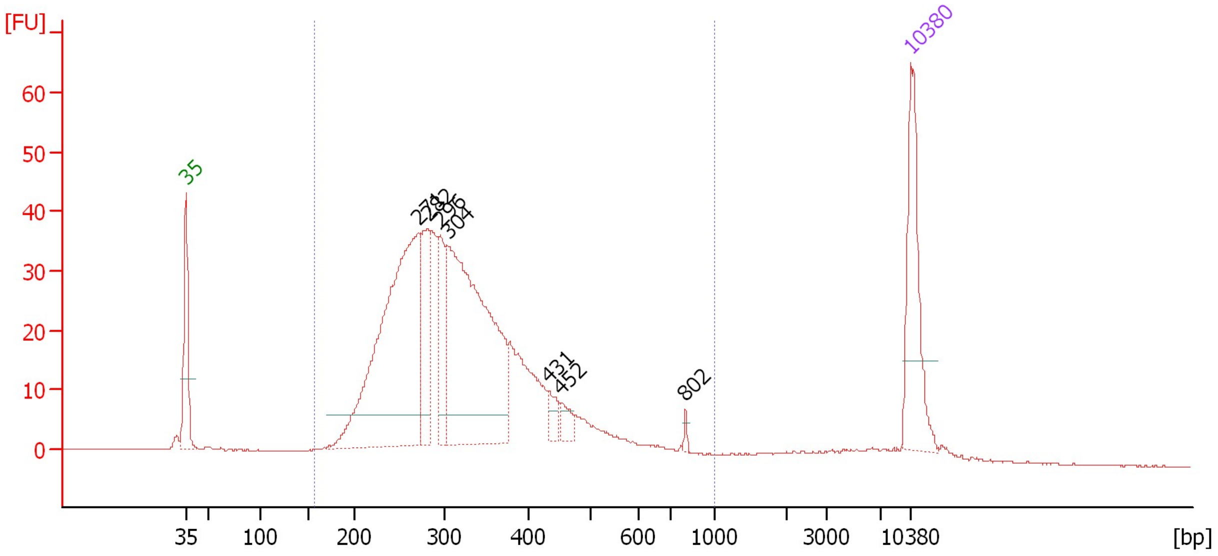
Peak		**Size [bp]**	**Conc. [pg/µl]**	**Molarity [pmol/l]**	**Observations**	**Aligned Migration Time [s]**
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 1 : A1-D Edited Library

From [bp]	**Average Size [bp]**	**To [bp]**	**Corr. Area**	**Molarity [pmol/l]**	**Color**	**% of Total**	**Size distribution in CV [%]**	**Conc. [pg/µl]**
168	321	649	441.7	3,776.9	🟦	90	26.0	738.96

Electropherogram Summary Continued ...

E912 control Library [HiSeq_138]



Overall Results for sample 2 : E912 control Library

Number of peaks found:	7	Corr. Area 1:	759.6
Noise:	0.1		

Peak table for sample 2 : E912 control Library

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		271	387.76	2,167.7		65.39
3		282	82.39	442.2		66.37
4		296	63.37	324.4		67.55
5		304	347.34	1,728.7		68.27
6		431	14.77	51.9		78.00
7		452	12.85	43.0		79.24
8		802	2.87	5.4		91.23
9	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 2 : E912 control Library

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Color	% of Total	Size distribution in CV [%]	Conc. [pg/µl]
156	329	1,000	759.6	6,283.2	🟦	94	30.7	1,241.80

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