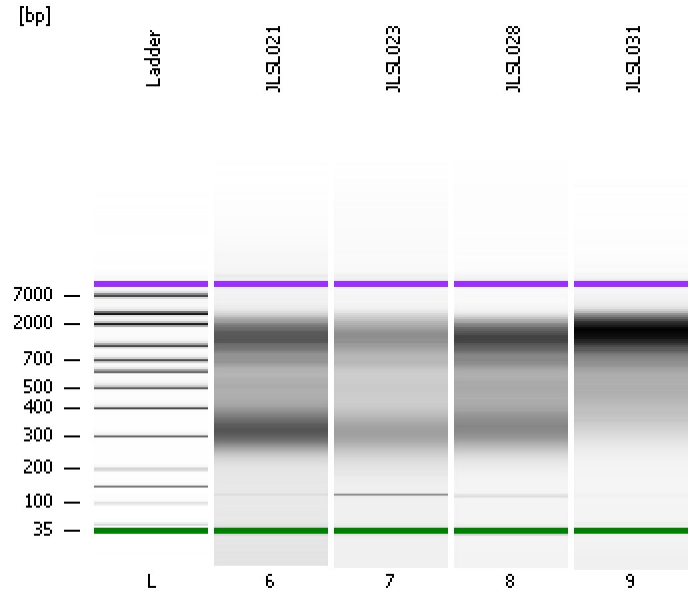
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ert\data\2016-10-24\2016-10-24_001_HiSeq711_extraPCR_QC.xad

Created: 10/24/2016 12:51:03 PM
Modified: 10/24/2016 1:36:28 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

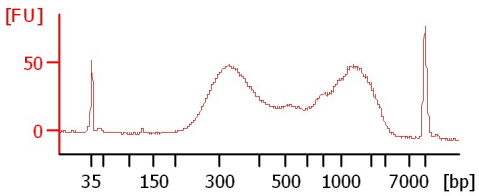
Chip Information:

Chip Lot #:

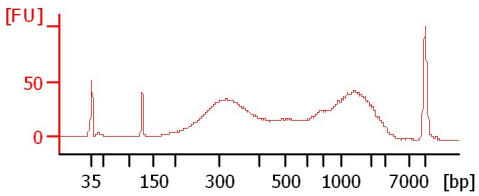
Reagent Kit Lot #:

Chip Comments:

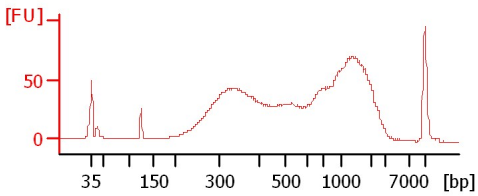
JLSL021



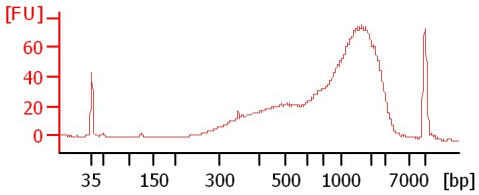
JLSL023



JLSL028



JLSL031



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ert\data\2016-10-24\2016-10-24_001_HiSeq711_extraPCR_QC.xad

Created: 10/24/2016 12:51:03 PM
Modified: 10/24/2016 1:36:28 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JLSL021		☐	✔			
JLSL023		☐	✔			
JLSL028		☐	✔			
JLSL031		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ert\data\2016-10-24\2016-10-24_001_HiSeq711_extraPCR_QC.xad

Created: 10/24/2016 12:51:03 PM
Modified: 10/24/2016 1:36:28 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

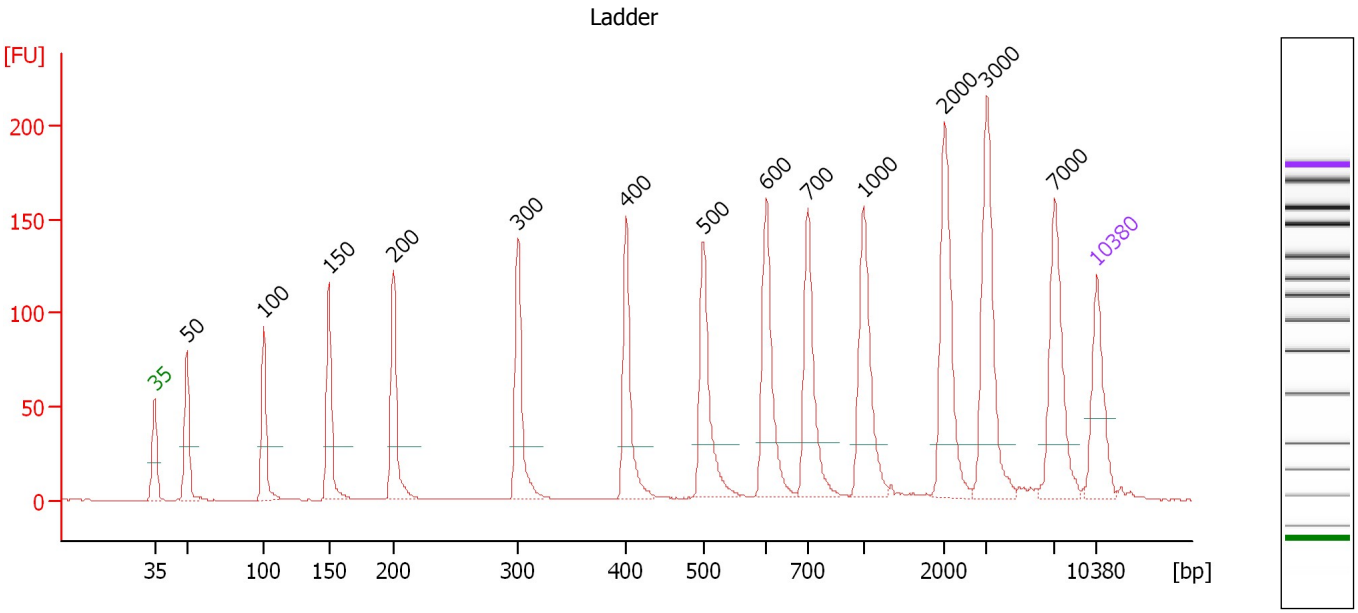
Ladder

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
Data Path: C:\...ert\data\2016-10-24\2016-10-24_001_HiSeq711_extraPCR_QC.xad

Created: 10/24/2016 12:51:03 PM
Modified: 10/24/2016 1:36:28 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

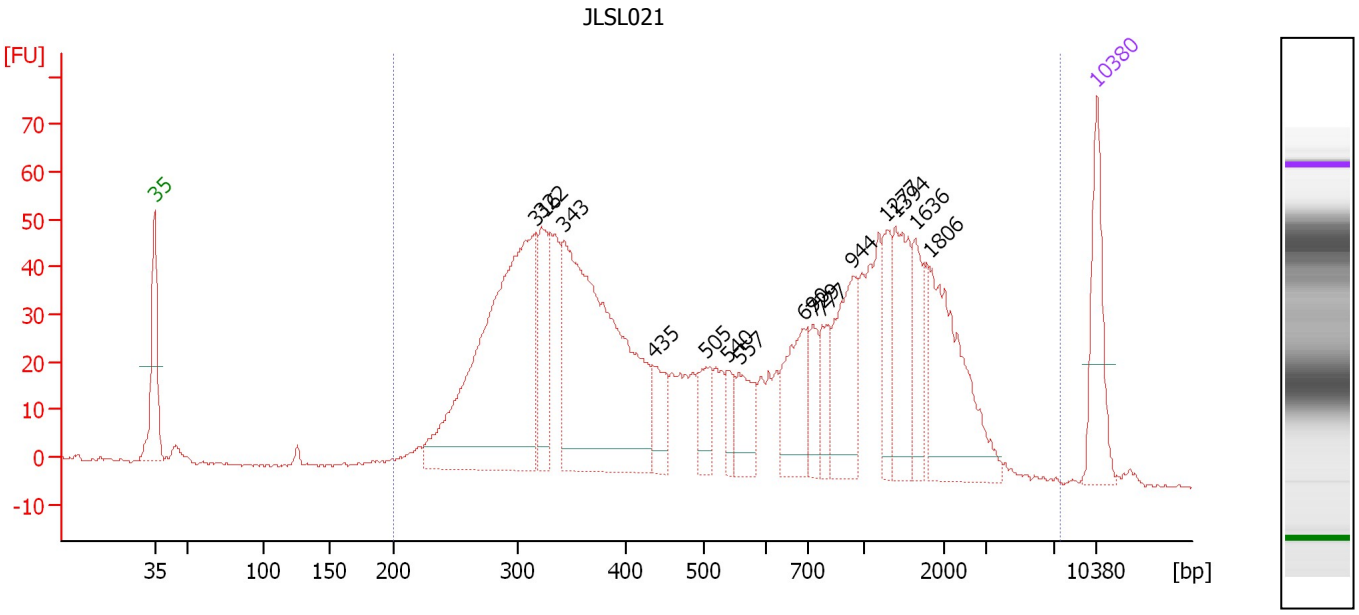
Peak table for Ladder

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	45.38
3		100	150.00	2,272.7	Ladder Peak	51.10
4		150	150.00	1,515.2	Ladder Peak	55.97
5		200	150.00	1,136.4	Ladder Peak	60.73
6		300	150.00	757.6	Ladder Peak	70.00
7		400	150.00	568.2	Ladder Peak	78.05
8		500	150.00	454.5	Ladder Peak	83.77
9		600	150.00	378.8	Ladder Peak	88.43
10		700	150.00	324.7	Ladder Peak	91.52
11		1,000	150.00	227.3	Ladder Peak	95.63
12		2,000	150.00	113.6	Ladder Peak	101.70
13		3,000	150.00	75.8	Ladder Peak	104.79
14		7,000	150.00	32.5	Ladder Peak	109.86
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ert\data\2016-10-24\2016-10-24_001_HiSeq711_extraPCR_QC.xad

Created: 10/24/2016 12:51:03 PM
Modified: 10/24/2016 1:36:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : JLSL021

Number of peaks found:	15	Corr. Area 1:	1,592.3
Noise:	0.2		

Peak table for sample 6 : JLSL021

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	316	549.09	2,634.1		71.27
3	322	115.84	545.2		71.76
4	343	519.57	2,295.8		73.45
5	435	47.90	166.9		80.04
6	505	41.81	125.4		84.02
7	540	26.43	74.1		85.65
8	557	54.37	148.0		86.42
9	690	93.49	205.3		91.21
10	729	37.59	78.1		91.92
11	777	39.49	77.0		92.57
12	944	102.78	165.0		94.86
13	1,277	46.92	55.7		97.31
14	1,394	90.62	98.5		98.02
15	1,636	47.21	43.7		99.49
16	1,806	154.03	129.2		100.53
17	10,380	75.00	10.9	Upper Marker	113.00

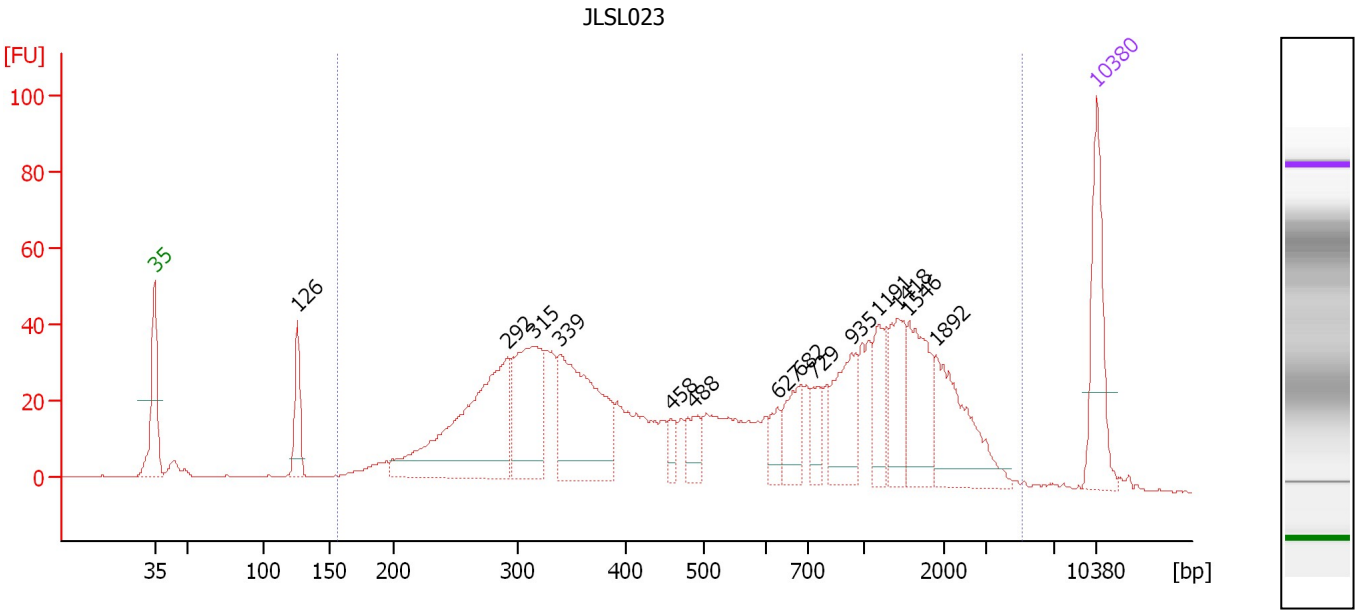
Region table for sample 6 : JLSL021

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
200	7,414	846	1,592.3	8,224.4	2,422.81	99	87.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ert\data\2016-10-24\2016-10-24_001_HiSeq711_extraPCR_QC.xad

Created: 10/24/2016 12:51:03 PM
Modified: 10/24/2016 1:36:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : JLSL023

Number of peaks found:	14	Corr. Area 1:	1,324.3
Noise:	0.1		

Peak table for sample 7 : JLSL023

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	126	57.82	695.7		53.62
3	292	266.97	1,386.6		69.23
4	315	150.04	722.8		71.17
5	339	195.65	875.6		73.10
6	458	17.15	56.8		81.35
7	488	28.54	88.7		83.06
8	627	21.86	52.8		89.26
9	682	45.36	100.7		90.98
10	729	29.57	61.5		91.92
11	935	70.34	114.0		94.74
12	1,191	43.55	55.4		96.79
13	1,418	55.57	59.4		98.17
14	1,546	76.61	75.1		98.94
15	1,892	92.95	74.4		101.05
16	10,380	75.00	10.9	Upper Marker	113.00

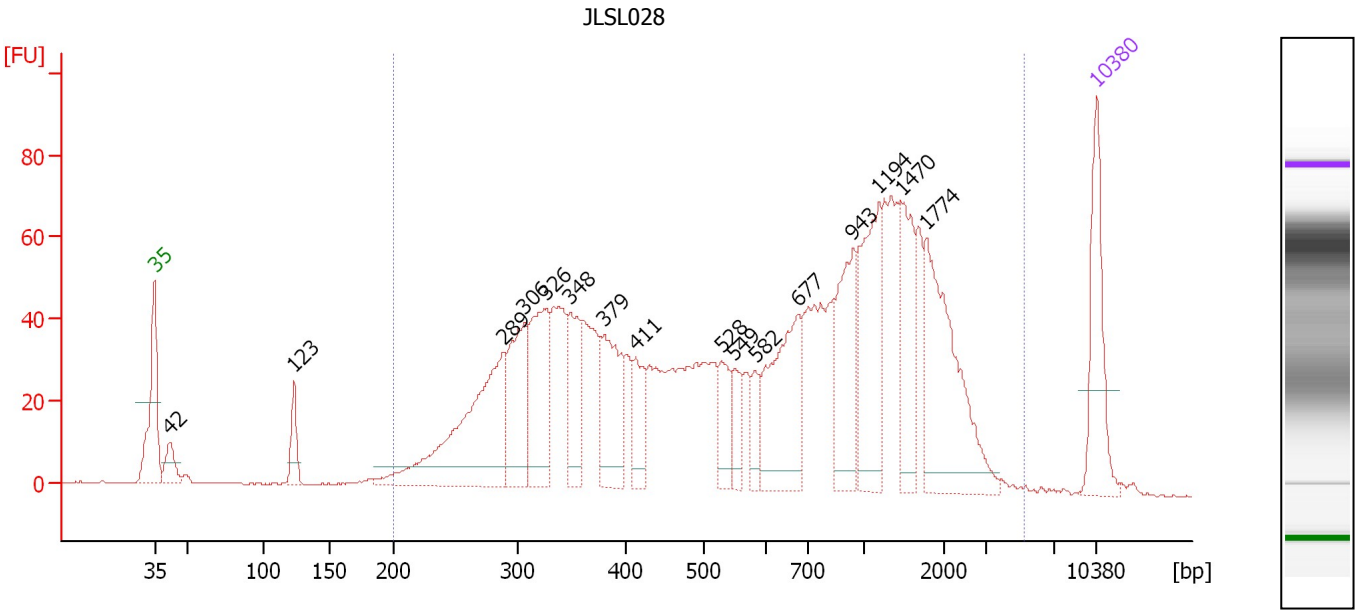
Region table for sample 7 : JLSL023

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
157	5,093	847	1,324.3	5,692.8	1,600.48	94	83.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ert\data\2016-10-24\2016-10-24_001_HiSeq711_extraPCR_QC.xad

Created: 10/24/2016 12:51:03 PM
Modified: 10/24/2016 1:36:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : JLSL028

Number of peaks found:	16	Corr. Area 1:	1,803.5
Noise:	0.1		

Peak table for sample 8 : JLSL028

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	42	31.82	1,146.2		44.12
3	123	36.33	446.5		53.37
4	289	242.39	1,272.2		68.95
5	306	116.41	576.8		70.46
6	326	126.70	588.9		72.09
7	348	74.22	323.6		73.82
8	379	99.55	398.2		76.35
9	411	47.77	175.9		78.70
10	528	40.49	116.2		85.09
11	549	33.14	91.5		86.04
12	582	26.86	69.9		87.61
13	677	135.57	303.5		90.81
14	943	96.80	155.6		94.84
15	1,194	123.08	156.2		96.80
16	1,470	71.26	73.4		98.48
17	1,774	157.30	134.3		100.33
18	10,380	75.00	10.9	Upper Marker	113.00

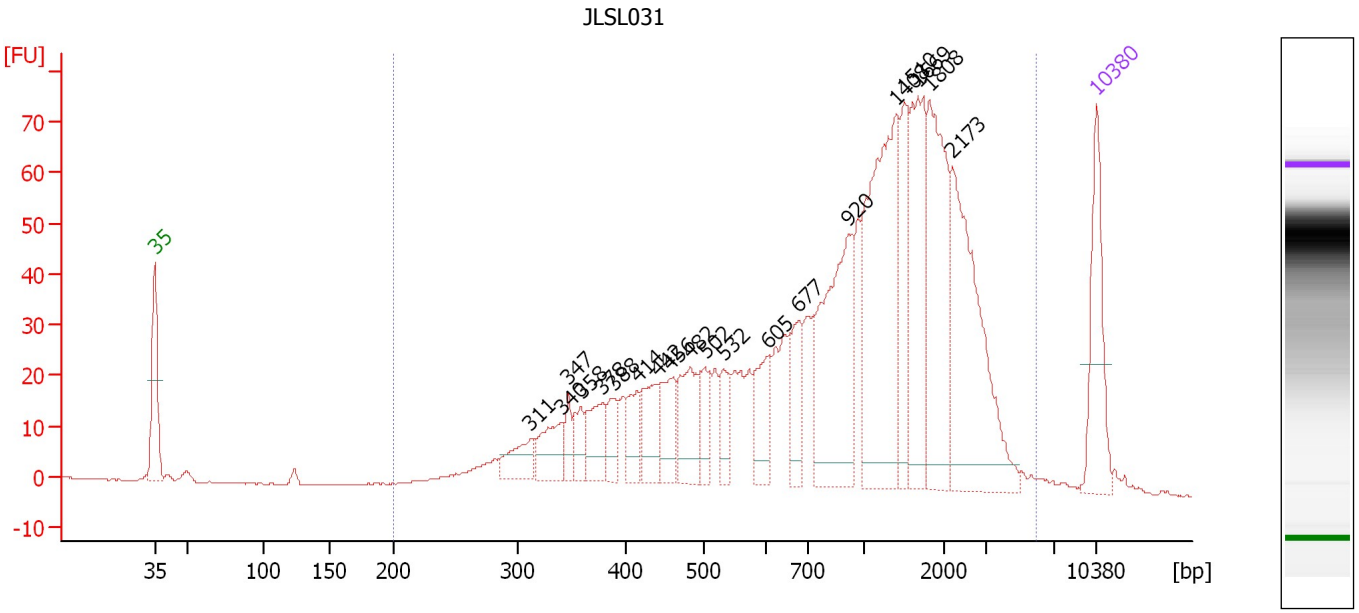
Region table for sample 8 : JLSL028

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	5,230	852	1,803.5	6,899.0	2,184.05	97	73.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ert\data\2016-10-24\2016-10-24_001_HiSeq711_extraPCR_QC.xad

Created: 10/24/2016 12:51:03 PM
Modified: 10/24/2016 1:36:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : JLSL031

Number of peaks found:	20	Corr. Area 1:	1,301.7
Noise:	0.1		

Peak table for sample 9 : JLSL031

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	311	39.68	193.0		70.92
3	340	47.55	212.2		73.19
4	347	22.98	100.4		73.75
5	358	25.97	110.0		74.66
6	378	46.01	184.6		76.24
7	388	28.47	111.1		77.09
8	414	33.82	123.8		78.85
9	442	53.14	182.3		80.44
10	456	44.97	149.6		81.23
11	482	68.31	214.6		82.76
12	502	33.55	101.2		83.89
13	532	29.61	84.4		85.25
14	605	49.44	123.8		88.59
15	677	47.67	106.8		90.80
16	920	178.34	293.6		94.54
17	1,408	233.09	250.9		98.11
18	1,510	70.24	70.5		98.73
19	1,669	127.37	115.6		99.69
20	1,808	144.67	121.2		100.54
21	2,173	183.92	128.2		102.24
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ert\data\2016-10-24\2016-10-24_001_HiSeq711_extraPCR_QC.xad

Created: 10/24/2016 12:51:03 PM
Modified: 10/24/2016 1:36:28 PM

Electropherogram Summary Continued ...

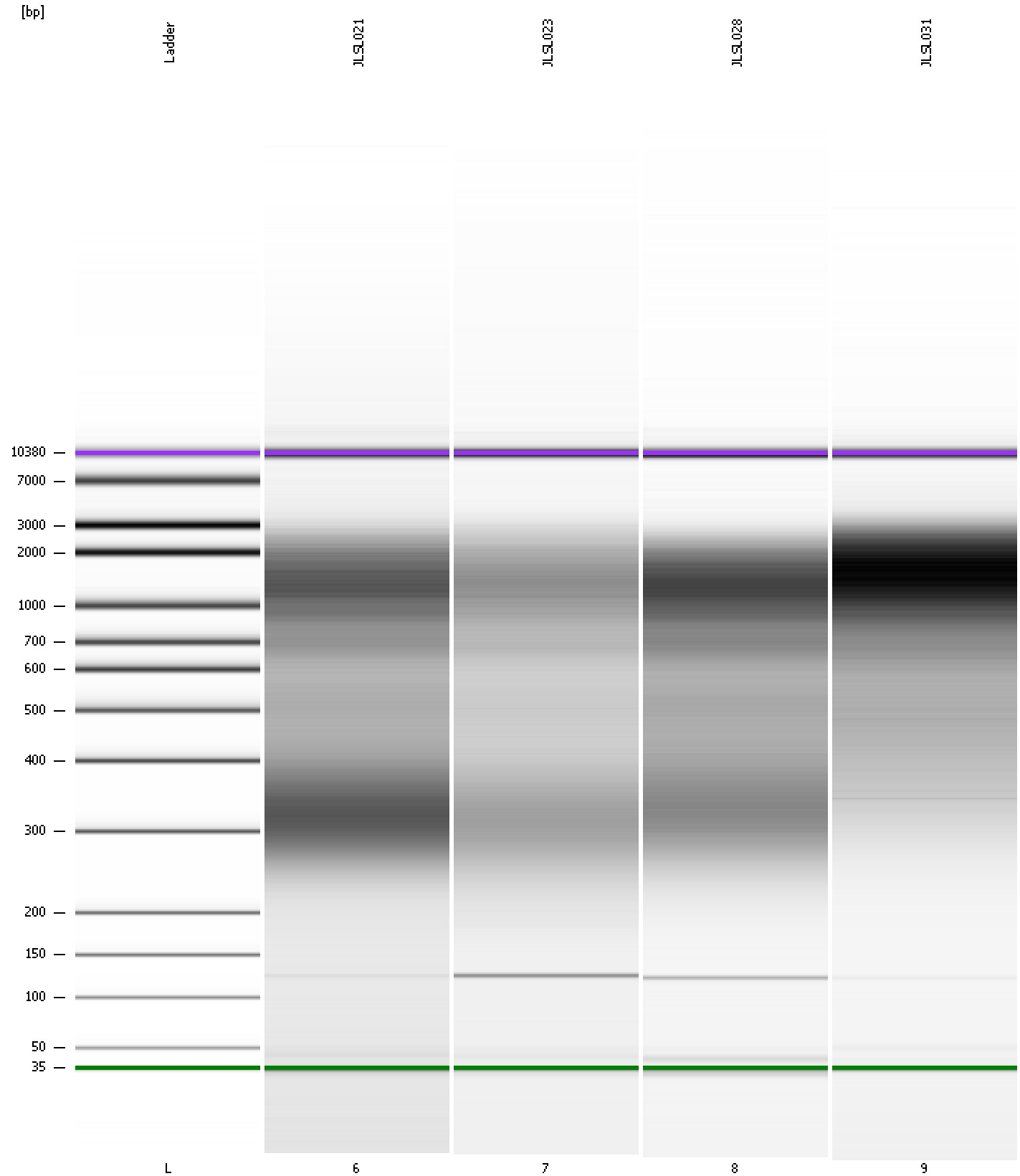
... Region table for sample 9 : JLSL031

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
200	5,890	1,232	1,301.7	4,132.1	1,901.14	99	66.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ert\data\2016-10-24\2016-10-24_001_HiSeq711_extraPCR_QC.xad

Created: 10/24/2016 12:51:03 PM
Modified: 10/24/2016 1:36:28 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ert\data\2016-10-24\2016-10-24_001_HiSeq711_extraPCR_QC.xad

Created: 10/24/2016 12:51:03 PM
Modified: 10/24/2016 1:36:28 PM

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		10/24/2016 1:32:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-10-24\2016-10-24_001.xad)		Instrument	Run		10/24/2016 12:51:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/24/2016 12:51:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/24/2016 12:51:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/24/2016 12:51:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/24/2016 12:51:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/24/2016 12:51:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/24/2016 12:51:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1