

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...0 expert\data\2016-10-20\2016-10-20_003_JLSL036-JLSL039.xad

Created: 10/20/2016 12:52:10 PM
Modified: 10/20/2016 1:37:16 PM

Electrophoresis File Run Summary

Instrument Information:

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

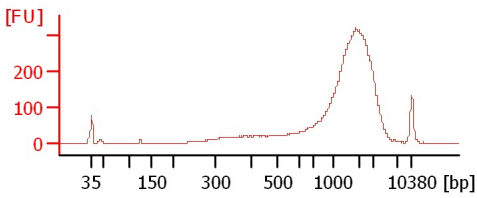
Assay Information:

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

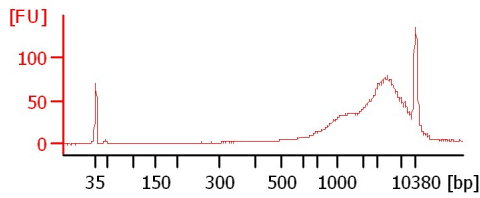
Chip Information:

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

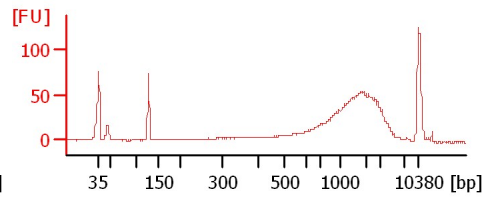
JLSL036 (1:2)



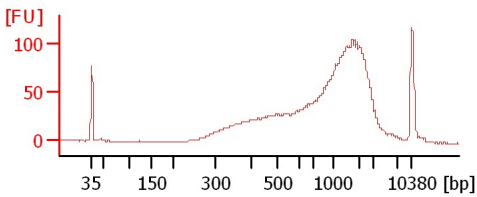
JLSL037 (1:42)



JLSL038



JLSL039 (1:32)



Assay Class: High Sensitivity DNA Assay
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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JLSL036 (1:2)		<input type="checkbox"/>				
JLSL037 (1:42)		<input type="checkbox"/>				
JLSL038		<input type="checkbox"/>				
JLSL039 (1:32)		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>				

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

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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

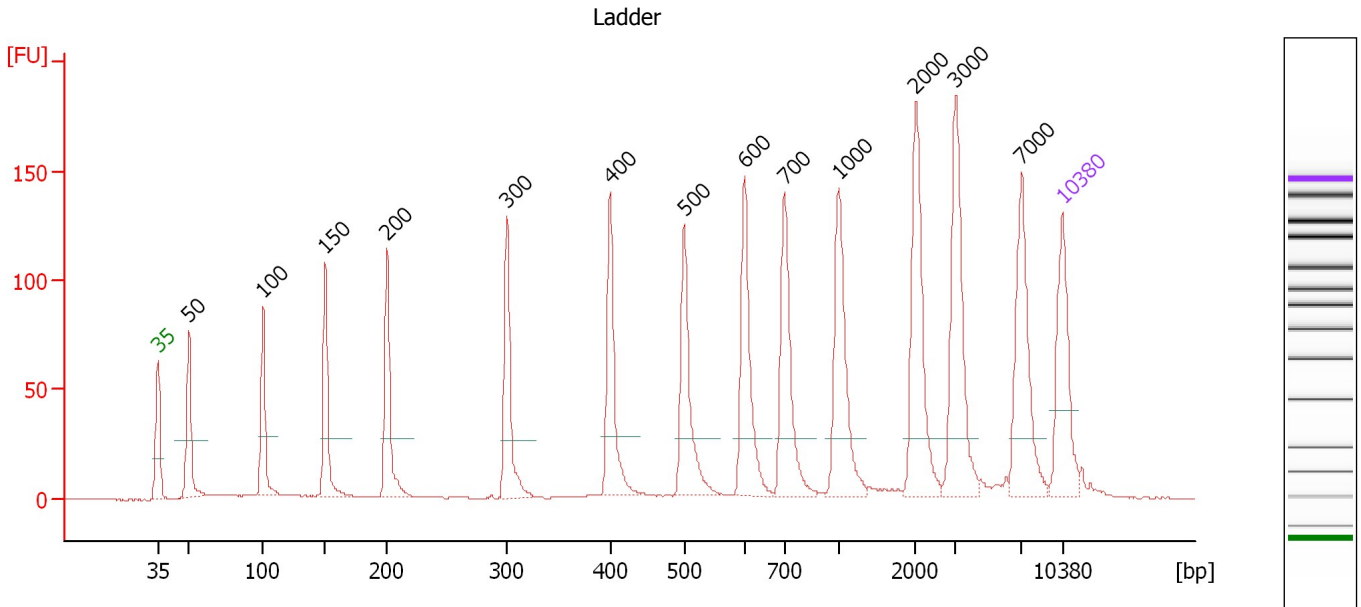
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

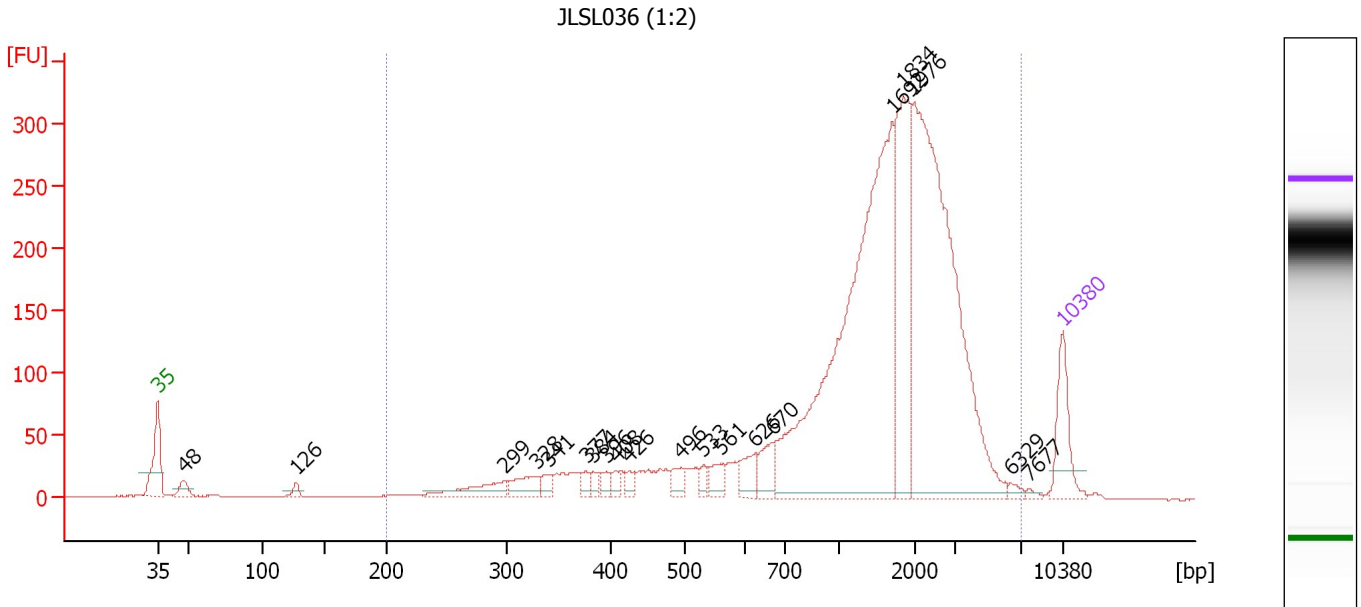
Peak table for Ladder

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	45.42
3	100	150.00	2,272.7	Ladder Peak	51.15
4	150	150.00	1,515.2	Ladder Peak	55.98
5	200	150.00	1,136.4	Ladder Peak	60.77
6	300	150.00	757.6	Ladder Peak	70.00
7	400	150.00	568.2	Ladder Peak	78.00
8	500	150.00	454.5	Ladder Peak	83.73
9	600	150.00	378.8	Ladder Peak	88.42
10	700	150.00	324.7	Ladder Peak	91.48
11	1,000	150.00	227.3	Ladder Peak	95.72
12	2,000	150.00	113.6	Ladder Peak	101.65
13	3,000	150.00	75.8	Ladder Peak	104.76
14	7,000	150.00	32.5	Ladder Peak	109.84
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 2 : JLSL036 (1:2)

Number of peaks found: 20 Corr. Area 1: 3,683.2
 Noise: 0.2

Peak table for sample 2 : JLSL036 (1:2)

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	48	26.80	853.1		45.03
3	126	13.56	162.6		53.70
4	299	57.61	292.1		69.90
5	328	48.61	224.2		72.28
6	341	19.66	87.4		73.27
7	377	15.04	60.4		76.19
8	384	17.07	67.3		76.74
9	396	15.55	59.5		77.68
10	408	14.56	54.1		78.47
11	426	14.36	51.1		79.46
12	496	25.92	79.1		83.52
13	533	15.84	45.0		85.26
14	561	31.91	86.2		86.60
15	626	40.06	96.9		89.22
16	670	52.41	118.5		90.56
17	1,692	883.95	791.5		99.82
18	1,834	264.04	218.1		100.66
19	1,976	752.96	577.2		101.51
20	6,329	8.38	2.0		108.99
21	7,677	4.58	0.9		110.47
22	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

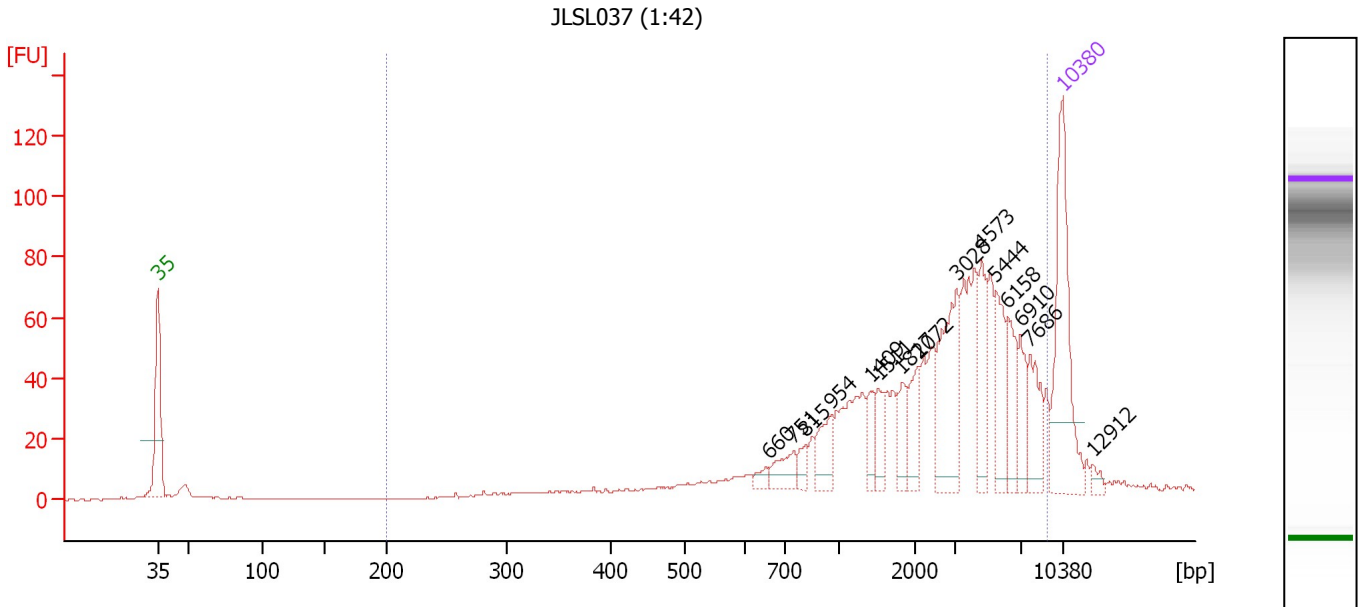
... Region table for sample 2 : JLSL036 (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	6,992	1,721	3,683.2	4,237.9	2,620.72	97	58.8

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Electropherogram Summary Continued ...



Overall Results for sample 3 : JLSL037 (1:42)

Number of peaks found: 15 Corr. Area 1: 966.8
 Noise: 0.2

Peak table for sample 3 : JLSL037 (1:42)

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	660	5.95	13.7		90.24
3	751	17.25	34.8		92.20
4	815	8.65	16.1		93.11
5	954	21.97	34.9		95.07
6	1,409	13.68	14.7		98.14
7	1,511	13.68	13.7		98.75
8	1,817	14.63	12.2		100.56
9	2,072	21.31	15.6		101.87
10	3,028	61.59	30.8		104.79
11	4,573	29.05	9.6		106.76
12	5,444	31.71	8.8		107.86
13	6,158	24.63	6.1		108.77
14	6,910	20.02	4.4		109.73
15	7,686	27.22	5.4		110.48
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,912	0.00	0.0		115.37

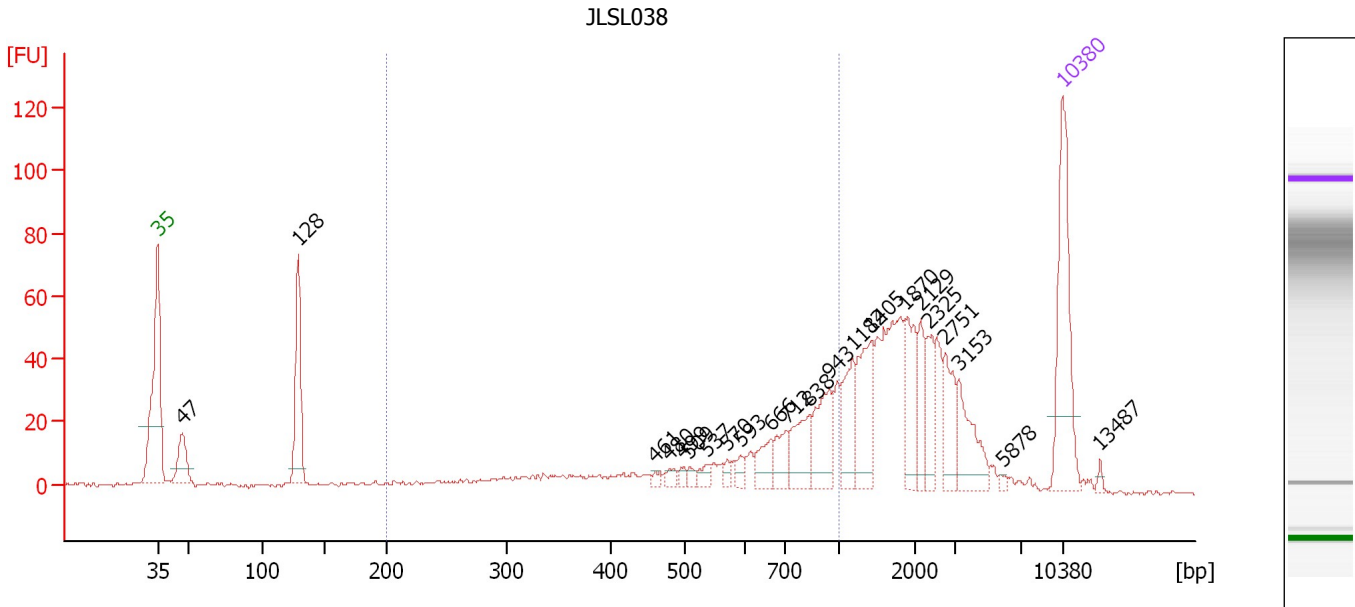
Region table for sample 3 : JLSL037 (1:42)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	9,029	3,228	966.8	682.8	618.45	93	70.7

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Electropherogram Summary Continued ...



Overall Results for sample 4 : JLSL038

Number of peaks found: 22 Corr. Area 1: 337.0
 Noise: 0.7


Peak table for sample 4 : JLSL038

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	47	38.17	1,230.5		44.94
3	128	83.80	988.1		53.90
4	461	3.43	11.3		81.52
5	480	6.32	20.0		82.59
6	499	4.45	13.5		83.66
7	509	4.33	12.9		84.16
8	537	7.04	19.9		85.44
9	570	5.52	14.7		87.02
10	593	6.72	17.2		88.09
11	666	18.99	43.2		90.43
12	712	20.46	43.5		91.65
13	838	32.29	58.3		93.44
14	943	39.68	63.8		94.91
15	1,182	34.04	43.6		96.80
16	1,405	47.33	51.0		98.12
17	1,870	36.44	29.5		100.87
18	2,129	23.46	16.7		102.05
19	2,325	25.50	16.6		102.66
20	2,751	27.05	14.9		103.98
21	3,153	34.44	16.5		104.95
22	5,878	2.16	0.6		108.41
23	10,380	75.00	10.9	Upper Marker	113.00
24	13,487	0.00	0.0		115.90

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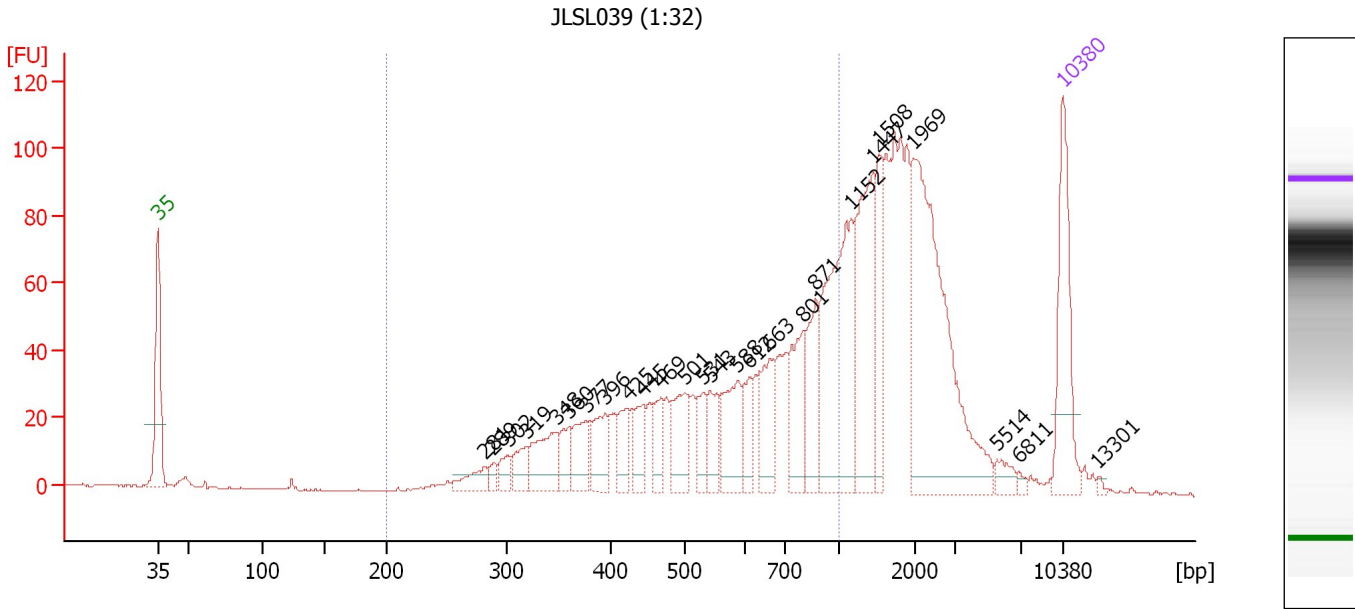
Electropherogram Summary Continued ...**... Region table for sample 4 : JLSL038**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	632	337.0	958.0	 312.54	34	35.2

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Electropherogram Summary Continued ...



Overall Results for sample 5 : JLSL039 (1:32)

Number of peaks found: 26 Corr. Area 1: 919.6
 Noise: 0.2

Peak table for sample 5 : JLSL039 (1:32)

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	281	22.30	120.1		68.29
3	289	8.89	46.7		68.96
4	302	15.49	77.8		70.14
5	319	23.65	112.5		71.48
6	348	51.67	225.3		73.80
7	360	24.39	102.6		74.83
8	377	38.51	154.7		76.17
9	396	40.30	154.3		77.67
10	425	28.54	101.8		79.42
11	445	31.10	106.0		80.55
12	469	22.38	72.3		81.94
13	501	49.30	149.0		83.79
14	531	24.10	68.8		85.19
15	543	32.49	90.6		85.75
16	588	55.70	143.5		87.86
17	612	26.84	66.4		88.79
18	663	45.31	103.6		90.34
19	801	55.07	104.1		92.91
20	871	56.63	98.6		93.89
21	1,152	160.72	211.4		96.62
22	1,447	111.81	117.1		98.37
23	1,508	53.08	53.3		98.73
24	1,969	226.31	174.1		101.46
25	5,514	10.67	2.9		107.95

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Electropherogram Summary Continued ...

... Peak table for sample 5 : JLSL039 (1:32)

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,811	3.16	0.7		109.60
27	10,380	75.00	10.9	Upper Marker	113.00
28	13,301	0.00	0.0		115.73

Region table for sample 5 : JLSL039 (1:32)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	1,000	596	919.6	2,727.5	903.25	51	34.0

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Data Path: C:\...0 expert\data\2016-10-20\2016-10-20_003_JLSL036-JLSL039.xad

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Gel Image

Assay Class: High Sensitivity DNA Assay
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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		10/20/2016 1:32:37 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\2016-10-20\2016-10-20_003.xad)		Instrument	Run		10/20/2016 12:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/20/2016 12:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/20/2016 12:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/20/2016 12:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/20/2016 12:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/20/2016 12:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/20/2016 12:52:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1