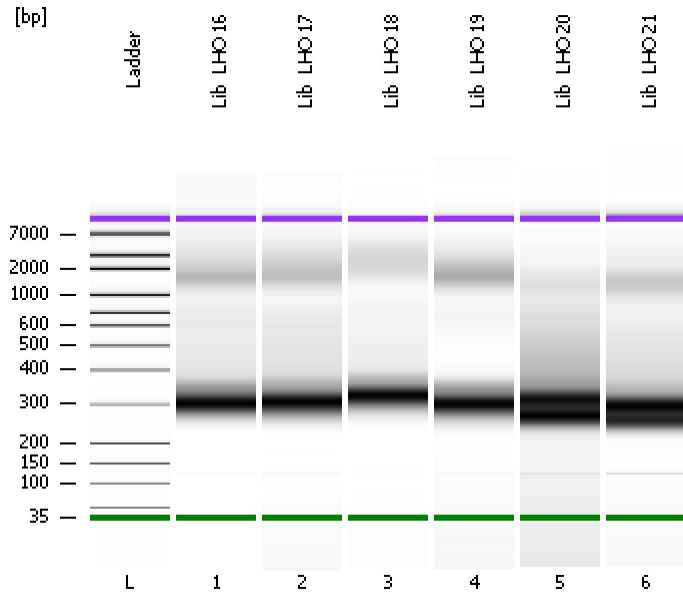


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad

Created: 7/8/2013 4:17:01 PM
Modified: 7/9/2013 11:53:04 AM

Electrophoresis File Run Summary



Instrument Information:

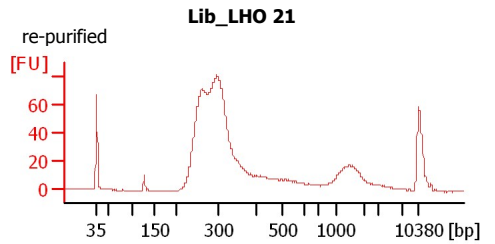
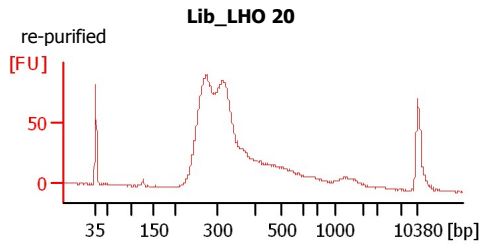
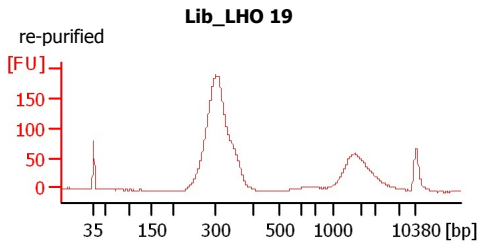
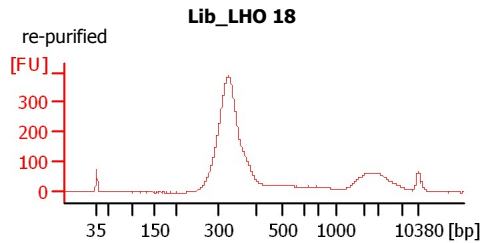
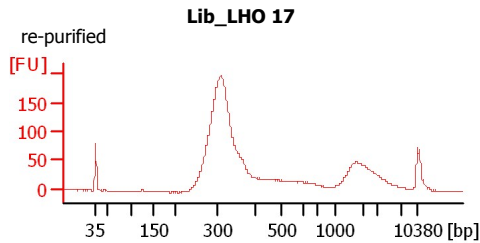
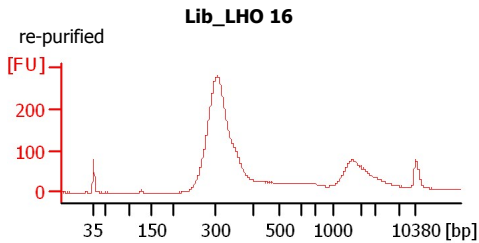
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 7/9/2013 11:53:04 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Lib_LHO 16	re-purified	<input type="checkbox"/>	✓			
Lib_LHO 17	re-purified	<input type="checkbox"/>	✓			
Lib_LHO 18	re-purified	<input type="checkbox"/>	✓			
Lib_LHO 19	re-purified	<input type="checkbox"/>	✓			
Lib_LHO 20	re-purified	<input type="checkbox"/>	✓			
Lib_LHO 21	re-purified	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad

Created: 7/8/2013 4:17:01 PM
Modified: 7/9/2013 11:53:04 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

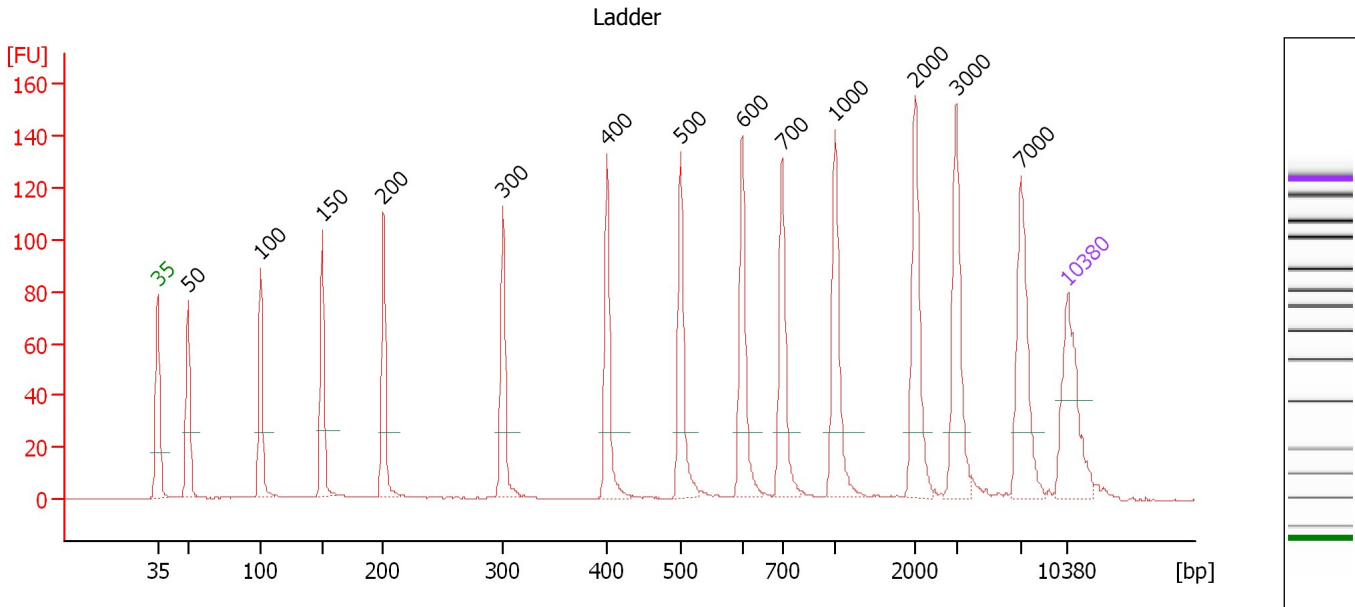
Ladder

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:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 7/9/2013 11:53:04 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

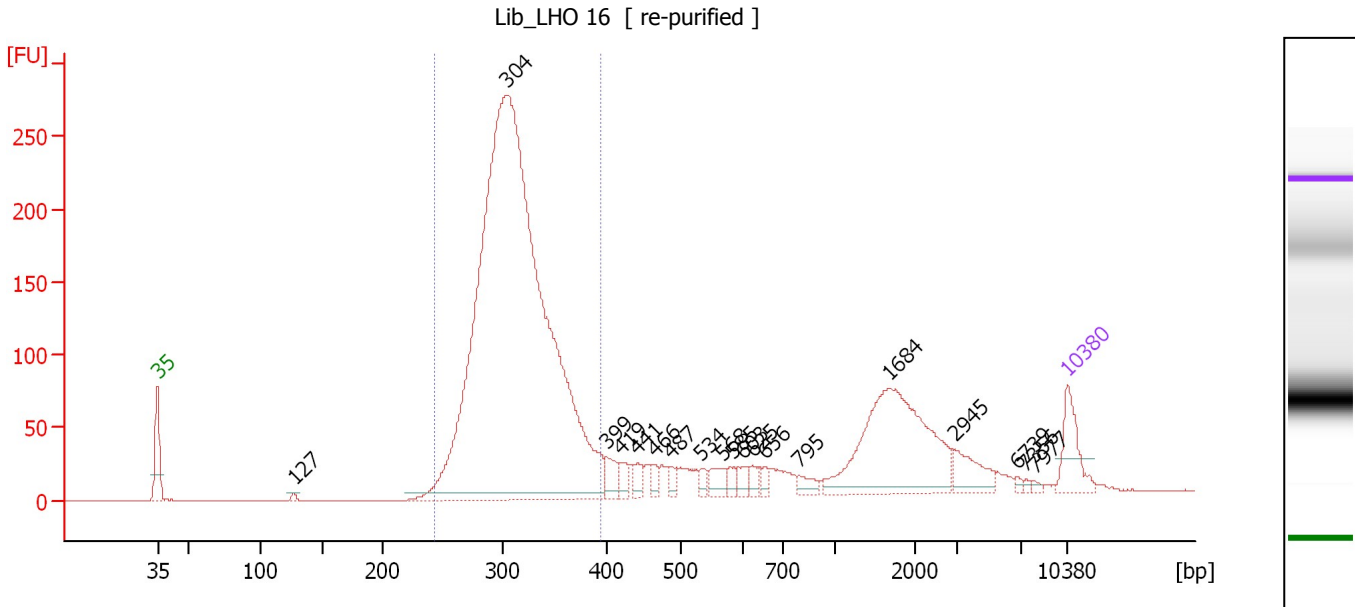
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 7/9/2013 11:53:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Lib_LHO 16

Number of peaks found: 19 Corr. Area 1: 2,345.2
 Noise: 0.2

Peak table for sample 1 : Lib_LHO 16

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	127	7.83	93.3	
3	304	3,337.03	16,610.6	
4	399	47.56	180.4	
5	419	30.14	108.9	
6	441	30.16	103.6	
7	466	19.55	63.6	
8	487	19.60	61.0	
9	534	20.08	57.0	
10	568	35.55	94.9	
11	585	18.50	47.9	
12	603	21.90	55.0	
13	625	20.75	50.3	
14	656	14.76	34.1	
15	795	24.73	47.2	
16	1,684	423.00	380.6	
17	2,945	64.76	33.3	
18	6,739	6.42	1.4	
19	7,356	4.22	0.9	
20	7,977	4.74	0.9	
21	10,380	75.00	10.9	Upper Marker

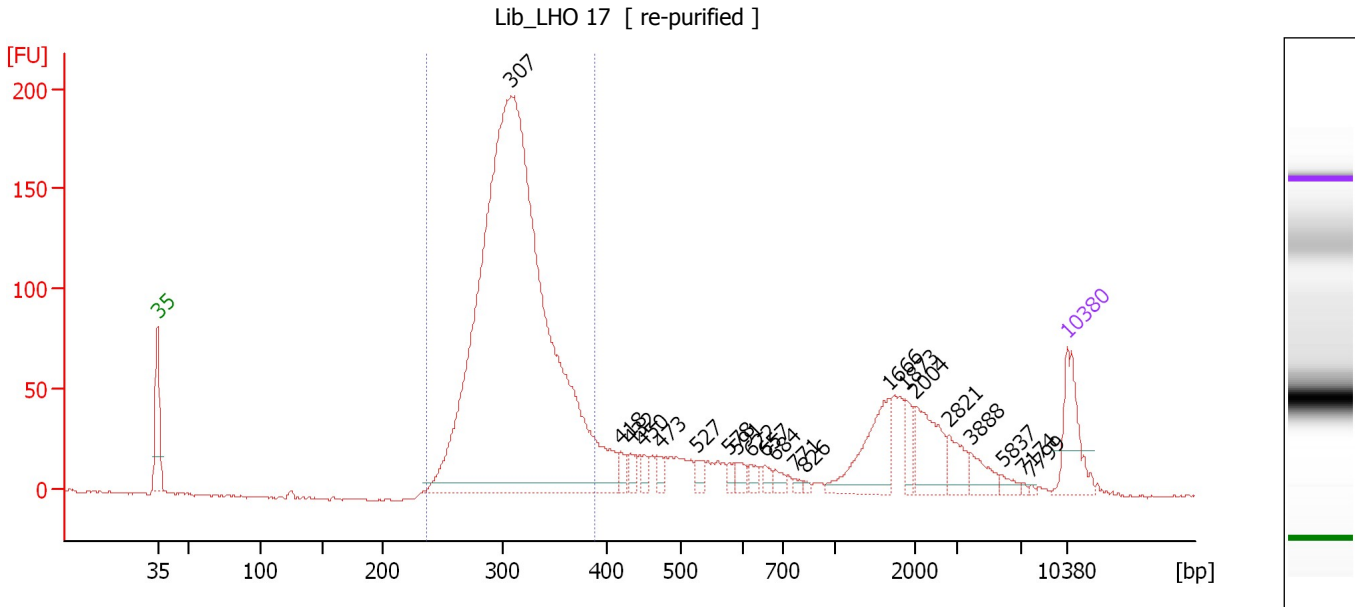
Region table for sample 1 : Lib_LHO 16

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
242	393	312	15,562.8	3,176.77	2,345.2	72	9.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 7/9/2013 11:53:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Lib_LHO 17

Number of peaks found: 21 Corr. Area 1: 1,694.8
 Noise: 0.6

Peak table for sample 2 : Lib_LHO 17

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	307	2,384.37	11,760.9	
3	418	19.37	70.3	
4	432	18.50	64.9	
5	450	17.76	59.8	
6	473	18.20	58.3	
7	527	19.26	55.4	
8	578	12.98	34.0	
9	591	18.57	47.6	
10	622	13.33	32.5	
11	657	13.23	30.5	
12	684	13.14	29.1	
13	771	7.29	14.3	
14	826	3.82	7.0	
15	1,666	112.05	101.9	
16	1,873	29.70	24.0	
17	2,004	83.57	63.2	
18	2,821	37.17	20.0	
19	3,888	31.26	12.2	
20	5,837	10.39	2.7	
21	7,174	2.53	0.5	
22	7,799	2.16	0.4	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad

Created: 7/8/2013 4:17:01 PM
Modified: 7/9/2013 11:53:04 AM

Electropherogram Summary Continued ...

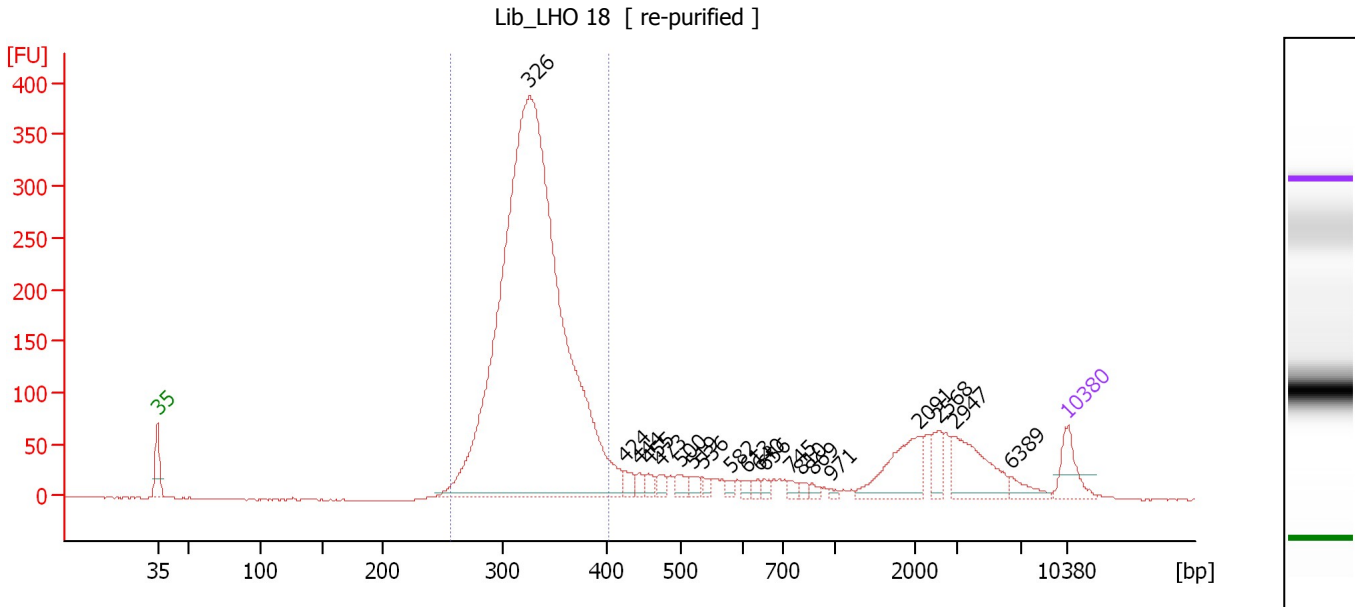
... Region table for sample 2 : Lib LHO 17

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
237	388	312	11,108.0	2,265.95	1,694.8	70	9.6	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad

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 Modified: 7/9/2013 11:53:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Lib_LHO 18

Number of peaks found: 20 Corr. Area 1: 3,005.1
 Noise: 0.6

Peak table for sample 3 : Lib_LHO 18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	326	4,070.25	18,945.6	
3	424	37.89	135.5	
4	444	25.39	86.7	
5	455	27.01	89.9	
6	473	29.11	93.3	
7	500	34.40	104.3	
8	519	26.34	76.9	
9	536	15.57	44.0	
10	582	14.99	39.0	
11	613	16.56	40.9	
12	640	16.70	39.5	
13	656	16.07	37.1	
14	745	17.30	35.2	
15	810	13.56	25.3	
16	869	14.41	25.1	
17	971	8.28	12.9	
18	2,091	163.72	118.6	
19	2,568	58.54	34.5	
20	2,947	168.81	86.8	
21	6,389	34.29	8.1	
22	10,380	75.00	10.9	Upper Marker

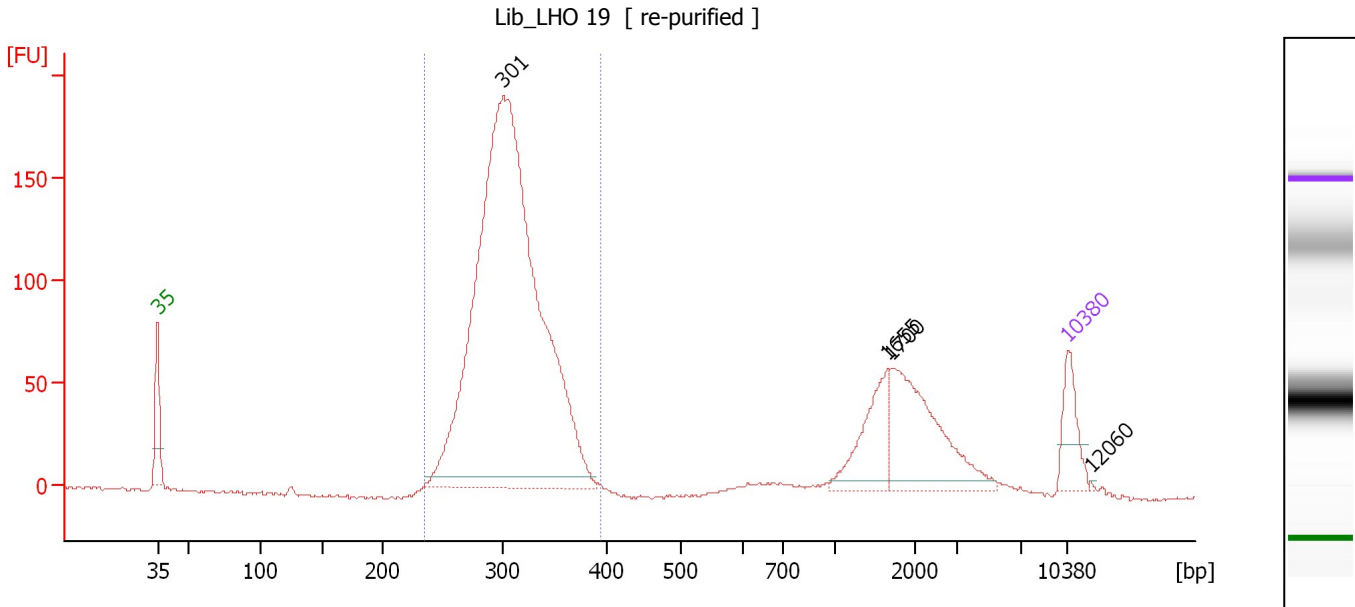
Region table for sample 3 : Lib_LHO 18

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
257	402	329	18,460.9	3,977.75	3,005.1	76	8.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 7/9/2013 11:53:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Lib_LHO 19

Number of peaks found: 4 Corr. Area 1: 1,563.5
 Noise: 0.7

Peak table for sample 4 : Lib_LHO 19

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	301	2,400.36	12,095.8	
3	1,655	141.85	129.9	
4	1,700	271.08	241.7	
5	10,380	75.00	10.9	Upper Marker
6	12,060	0.00	0.0	

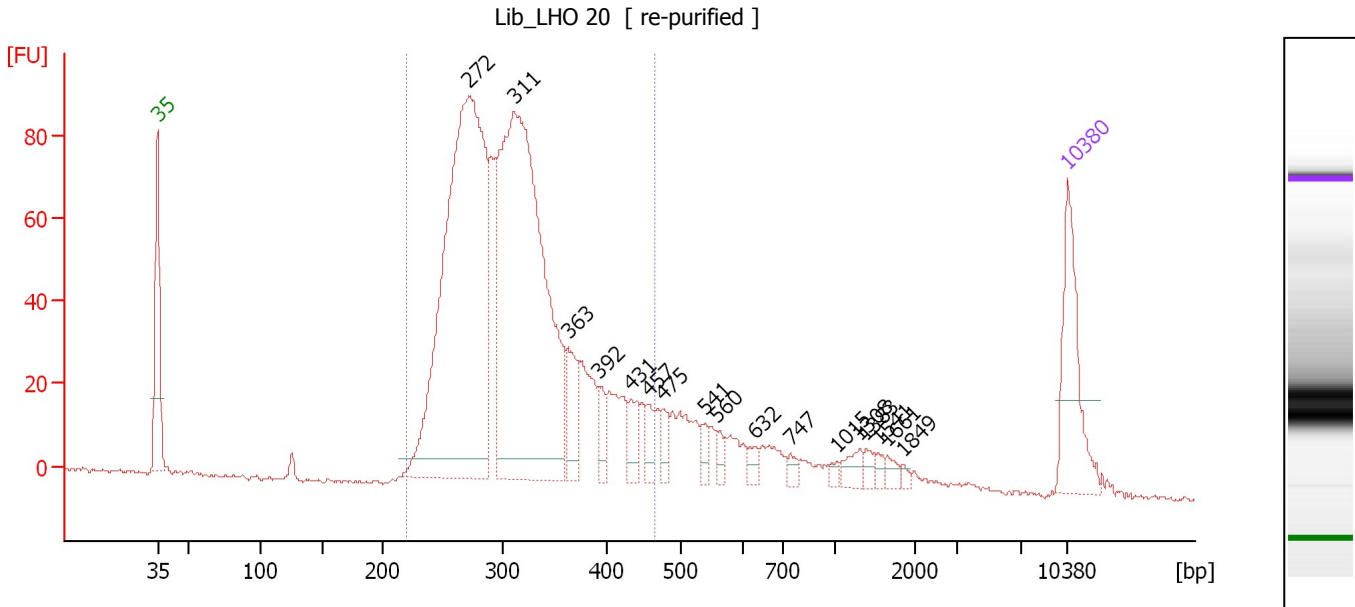
Region table for sample 4 : Lib_LHO 19

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
235	394	308	11,772.5	2,368.87	1,563.5	78	9.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 7/9/2013 11:53:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Lib_LHO 20

Number of peaks found: 17 Corr. Area 1: 1,318.7
 Noise: 0.5

Peak table for sample 5 : Lib_LHO 20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	272	711.45	3,963.5	
3	311	669.70	3,262.4	
4	363	44.69	186.6	
5	392	20.90	80.8	
6	431	26.99	94.8	
7	457	17.48	58.0	
8	475	16.24	51.8	
9	541	11.46	32.1	
10	560	9.52	25.8	
11	632	9.91	23.8	
12	747	7.34	14.9	
13	1,015	5.28	7.9	
14	1,308	13.29	15.4	
15	1,383	7.05	7.7	
16	1,541	5.18	5.1	
17	1,661	7.54	6.9	
18	1,849	3.39	2.8	
19	10,380	75.00	10.9	Upper Marker

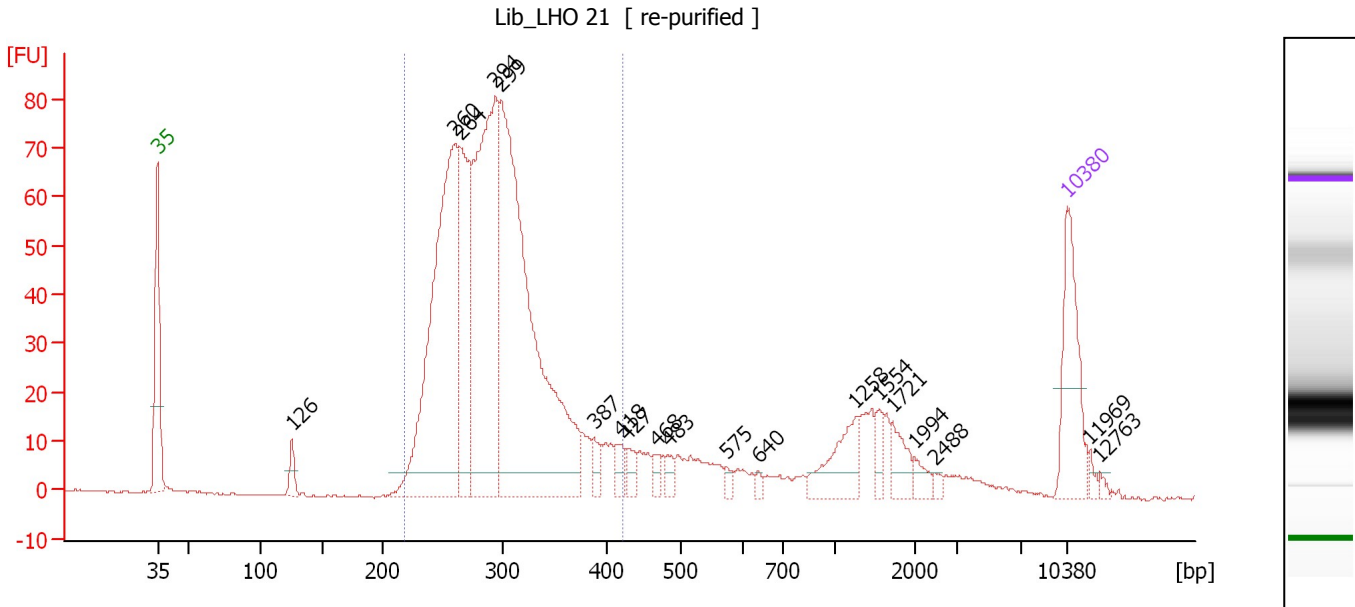
Region table for sample 5 : Lib_LHO 20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
220	464	313	8,508.6	1,700.02	1,318.7	84	16.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad

Created: 7/8/2013 4:17:01 PM
 Modified: 7/9/2013 11:53:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Lib_LHO 21

Number of peaks found: 19 Corr. Area 1: 979.2
 Noise: 0.2

Peak table for sample 6 : Lib_LHO 21

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	126	19.77	238.6	
3	260	466.64	2,719.0	
4	264	161.79	928.2	
5	294	419.63	2,166.1	
6	299	599.27	3,040.8	
7	387	16.51	64.6	
8	418	15.60	56.5	
9	427	15.15	53.8	
10	468	10.82	35.1	
11	483	11.87	37.3	
12	575	6.44	17.0	
13	640	5.06	12.0	
14	1,258	49.22	59.3	
15	1,554	13.99	13.6	
16	1,721	23.98	21.1	
17	1,994	9.98	7.6	
18	2,488	4.35	2.7	
19	10,380	75.00	10.9	Upper Marker
20	11,969	0.00	0.0	
21	12,763	0.00	0.0	

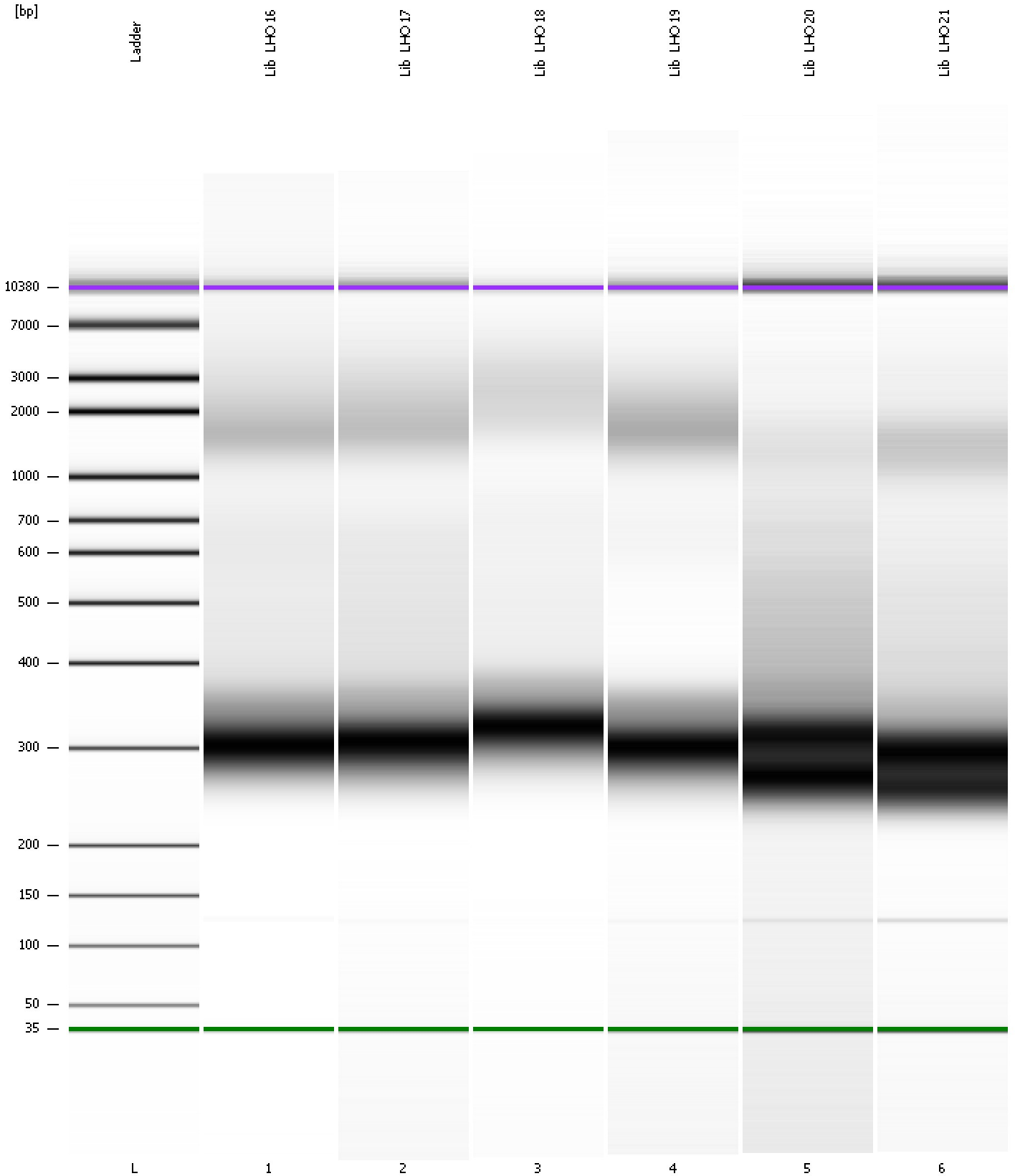
Region table for sample 6 : Lib_LHO 21

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
217	422	294	8,861.0	1,683.02	979.2	79	13.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad

Created: 7/8/2013 4:17:01 PM
Modified: 7/9/2013 11:53:04 AM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 7/8/2013 4:17:01 PM
 Data Path: C:\... and Settings\Bioanalyzer\2013-07-08\2013-07-08_007_LHO.xad Modified: 7/9/2013 11:53:04 AM

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		7/8/2013 4:57:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-08\2013-07-08_007.xad)		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/8/2013 4:17:06 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1