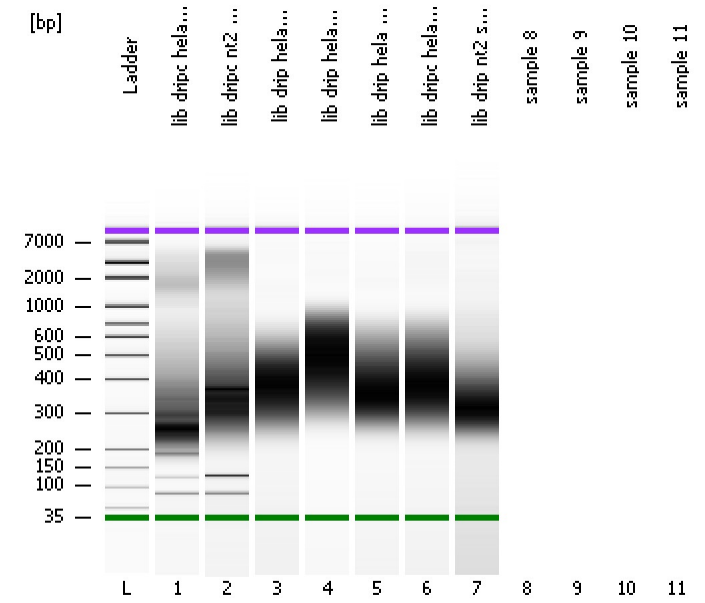
Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

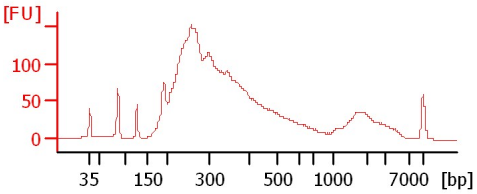
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments:

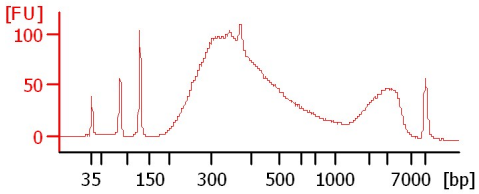
Chip Information:

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

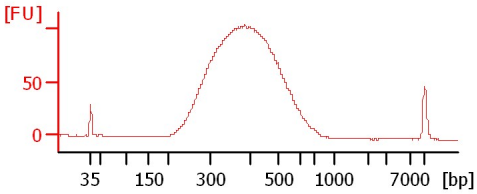
lib dripc hela2 2try i21



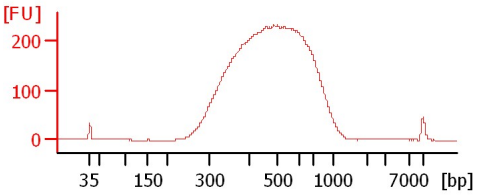
lib dripc nt2 RA 2try i22



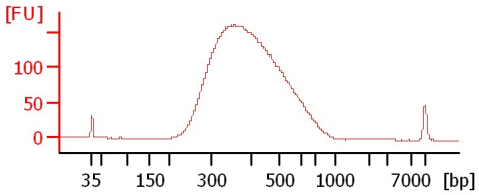
lib drip hela1 clean i3



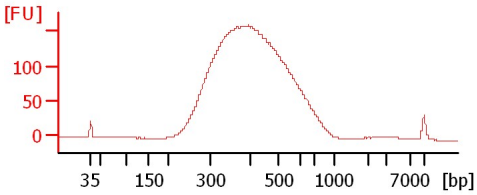
lib drip hela2 clean i8



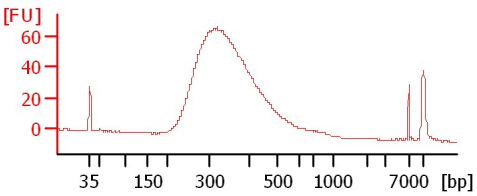
lib drip hela RH clean i9



lib dripc hela1 clean i20



lib drip nt2 sonic clean i23



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
lib dripc hela2 2try i21		☐	✔			
lib dripc nt2 RA 2try i22		☐	✔			
lib drip hela1 clean i3		☐	✔			
lib drip hela2 clean i8		☐	✔			
lib drip hela RH clean i9		☐	✔			
lib dripc hela1 clean i20		☐	✔			
lib drip nt2 sonic clean i23		☐	✔			
sample 8		☐				
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 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

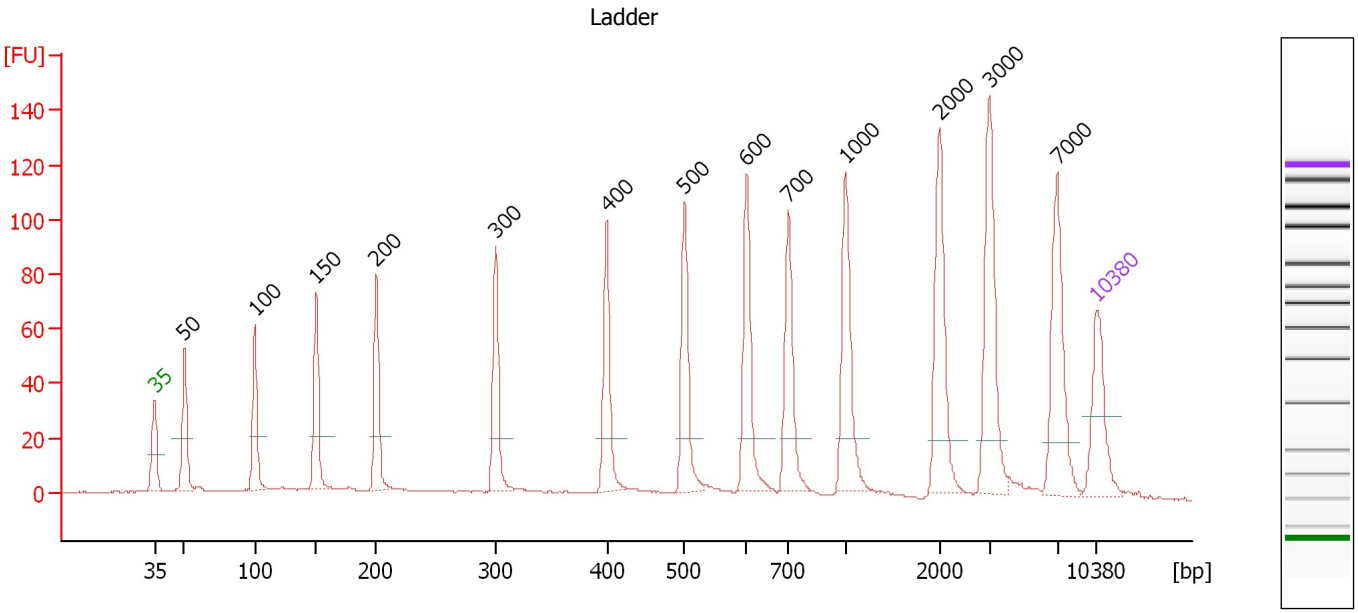
Ladder

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:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

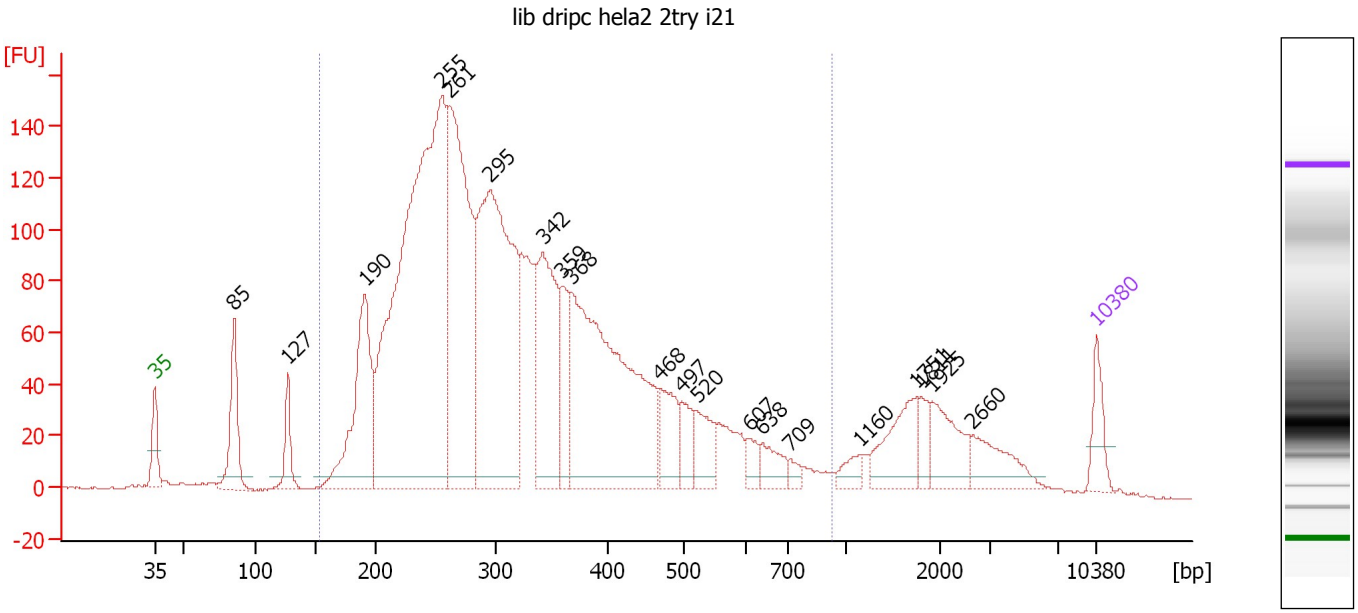
Peak table for Ladder

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	45.21
3		100	150.00	2,272.7	Ladder Peak	50.48
4		150	150.00	1,515.2	Ladder Peak	55.00
5		200	150.00	1,136.4	Ladder Peak	59.47
6		300	150.00	757.6	Ladder Peak	68.33
7		400	150.00	568.2	Ladder Peak	76.59
8		500	150.00	454.5	Ladder Peak	82.36
9		600	150.00	378.8	Ladder Peak	86.97
10		700	150.00	324.7	Ladder Peak	90.07
11		1,000	150.00	227.3	Ladder Peak	94.31
12		2,000	150.00	113.6	Ladder Peak	101.28
13		3,000	150.00	75.8	Ladder Peak	105.02
14		7,000	150.00	32.5	Ladder Peak	110.05
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : lib dripc hela2 2try i21

Number of peaks found:	20	Corr. Area 1:	3,295.4
Noise:	0.2		

Peak table for sample 1 : lib dripc hela2 2try i21

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	85	289.78	5,170.8		48.89
3	127	133.83	1,598.1		52.91
4	190	585.22	4,658.8		58.61
5	255	2,444.30	14,517.7		64.36
6	261	1,093.26	6,336.1		64.92
7	295	1,338.84	6,872.0		67.91
8	342	516.58	2,286.2		71.83
9	359	170.52	720.1		73.19
10	368	1,182.92	4,865.3		73.98
11	468	159.54	516.3		80.52
12	497	94.20	287.5		82.16
13	520	118.85	346.3		83.28
14	607	42.64	106.4		87.21
15	638	75.54	179.5		88.14
16	709	24.87	53.1		90.20
17	1,160	42.19	55.1		95.43
18	1,751	158.73	137.4		99.54
19	1,811	48.64	40.7		99.96
20	1,925	136.32	107.3		100.76
21	2,660	113.84	64.8		103.75
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Electropherogram Summary Continued ...

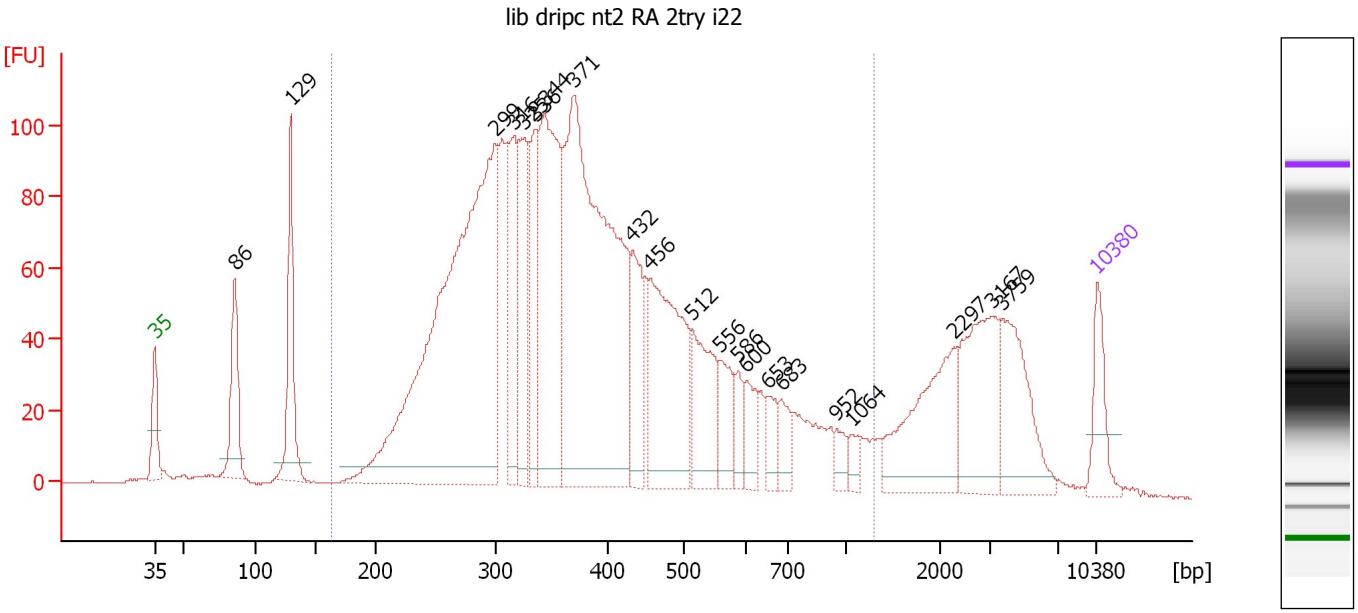
... Region table for sample 1 : lib dripc hela2 2try i21

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
153	929	334	3,295.4	45,744.2	8,722.07	86	36.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : lib dripc nt2 RA 2try i22

Number of peaks found:	21	Corr. Area 1:	2,625.5
Noise:	0.3		

Peak table for sample 2 : lib dripc nt2 RA 2try i22

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	86	194.81	3,449.3		48.96
3	129	263.84	3,098.5		53.10
4	299	1,525.25	7,720.8		68.27
5	316	244.49	1,171.6		69.67
6	325	239.57	1,116.2		70.41
7	336	195.56	882.1		71.30
8	344	498.95	2,195.4		72.00
9	371	1,179.99	4,821.2		74.18
10	432	173.69	608.5		78.47
11	456	407.83	1,355.5		79.82
12	512	190.77	564.1		82.93
13	556	90.24	246.0		84.93
14	586	44.77	115.7		86.33
15	600	65.56	165.5		86.98
16	653	48.21	111.9		88.61
17	683	49.67	110.2		89.54
18	952	31.17	49.6		93.64
19	1,064	21.95	31.3		94.76
20	2,297	221.65	146.2		102.39
21	3,167	208.82	99.9		105.23
22	3,759	170.48	68.7		105.97
23	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Electropherogram Summary Continued ...

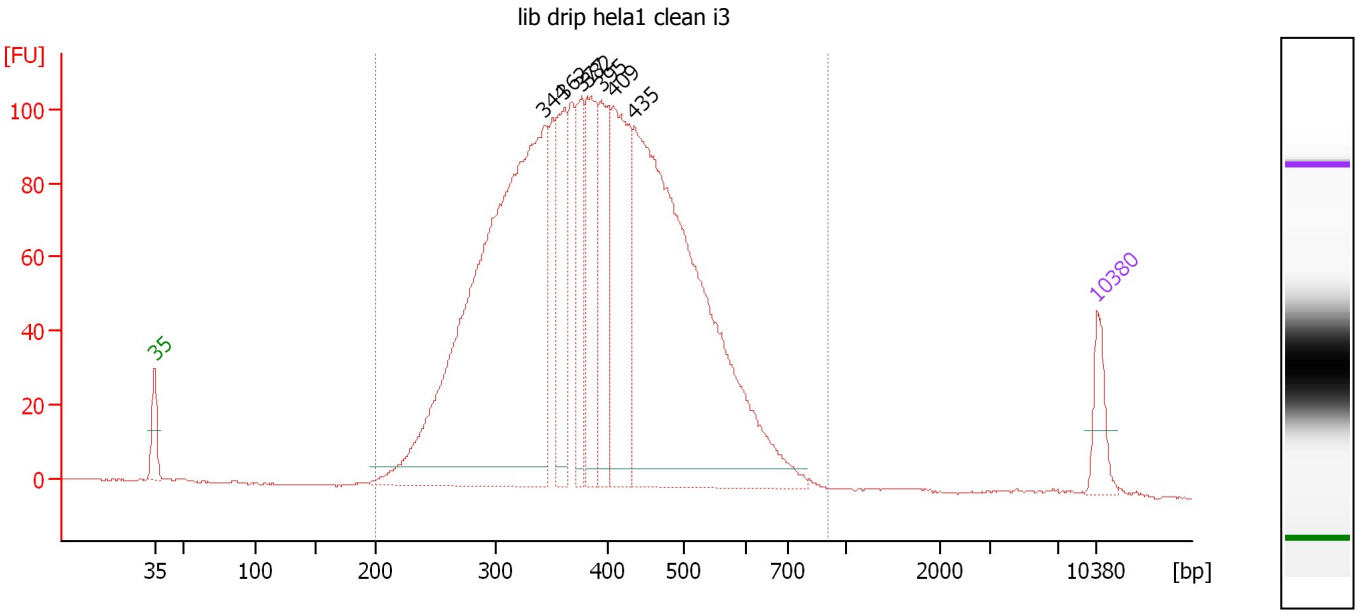
... Region table for sample 2 : lib dripc nt2 RA 2try i22

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
163	1,300	411	2,625.5	24,593.4	5,672.81	80	41.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : lib drip hela1 clean i3

Number of peaks found:	7	Corr. Area 1:	2,428.9
Noise:	0.2		

Peak table for sample 3 : lib drip hela1 clean i3

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	344	2,183.60	9,617.7		71.97
3	362	315.88	1,323.5		73.42
4	377	215.46	866.0		74.69
5	382	345.16	1,368.7		75.11
6	395	284.51	1,090.9		76.19
7	409	510.82	1,894.5		77.08
8	435	1,833.84	6,393.7		78.59
9	10,380	75.00	10.9	Upper Marker	113.00

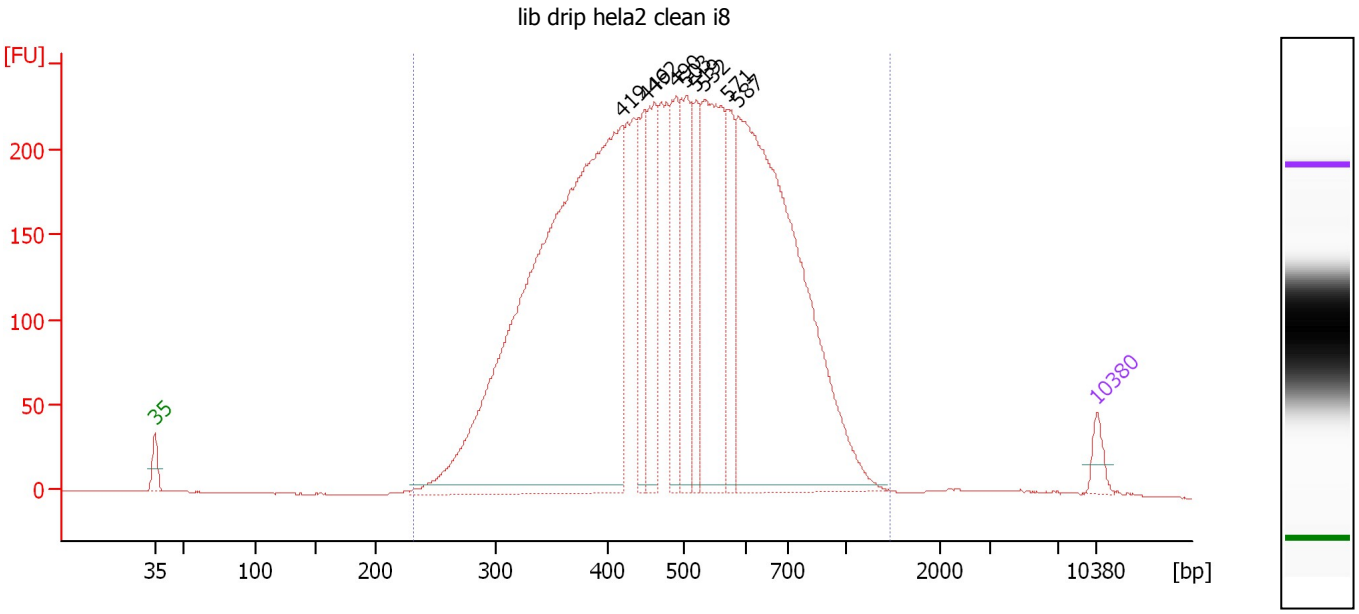
Region table for sample 3 : lib drip hela1 clean i3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	904	399	2,428.9	25,989.9	6,331.67	98	24.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : lib drip hela2 clean i8

Number of peaks found:	9	Corr. Area 1:	5,926.6
Noise:	0.3		

Peak table for sample 4 : lib drip hela2 clean i8

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	419	5,759.72	20,805.6		77.71
3	449	461.60	1,557.1		79.43
4	462	645.64	2,119.5		80.14
5	490	570.29	1,764.8		81.76
6	503	671.45	2,024.6		82.48
7	519	478.82	1,397.8		83.24
8	532	1,265.91	3,602.4		83.86
9	571	462.60	1,228.3		85.62
10	587	3,470.62	8,956.3		86.38
11	10,380	75.00	10.9	Upper Marker	113.00

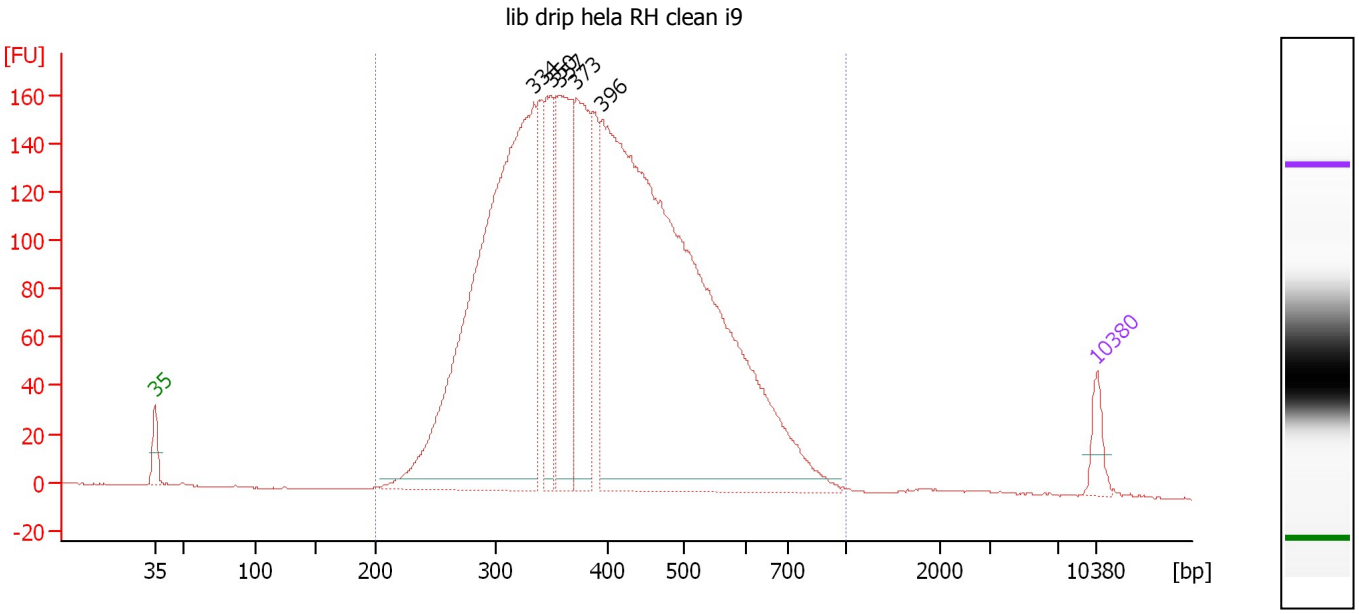
Region table for sample 4 : lib drip hela2 clean i8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
232	1,480	507	5,926.6	53,866.6	15,967.79	99	31.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : lib drip hela RH clean i9

Number of peaks found:	5	Corr. Area 1:	3,785.1
Noise:	0.2		

Peak table for sample 5 : lib drip hela RH clean i9

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	334	3,112.07	14,101.5		71.17
3	350	484.77	2,098.3		72.47
4	357	786.87	3,339.6		73.04
5	373	717.47	2,917.1		74.33
6	396	4,384.57	16,781.6		76.25
7	10,380	75.00	10.9	Upper Marker	113.00

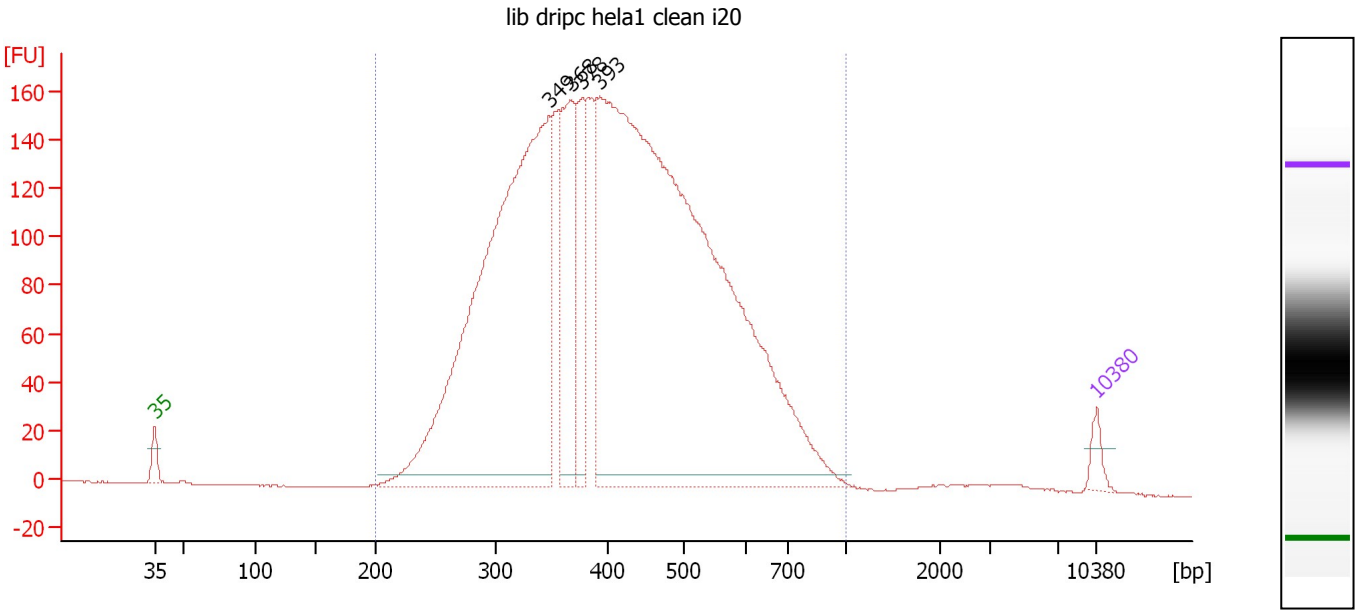
Region table for sample 5 : lib drip hela RH clean i9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	409	3,785.1	40,705.1	10,062.90	99	26.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : lib dripc hela1 clean i20

Number of peaks found:	4	Corr. Area 1:	3,929.3
Noise:	0.2		

Peak table for sample 6 : lib dripc hela1 clean i20

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		349	5,237.59	22,745.0		72.37
3		368	1,102.90	4,538.4		73.97
4		378	546.04	2,187.9		74.79
5		393	8,539.41	32,941.9		76.00
6	▶	10,380	75.00	10.9	Upper Marker	113.00

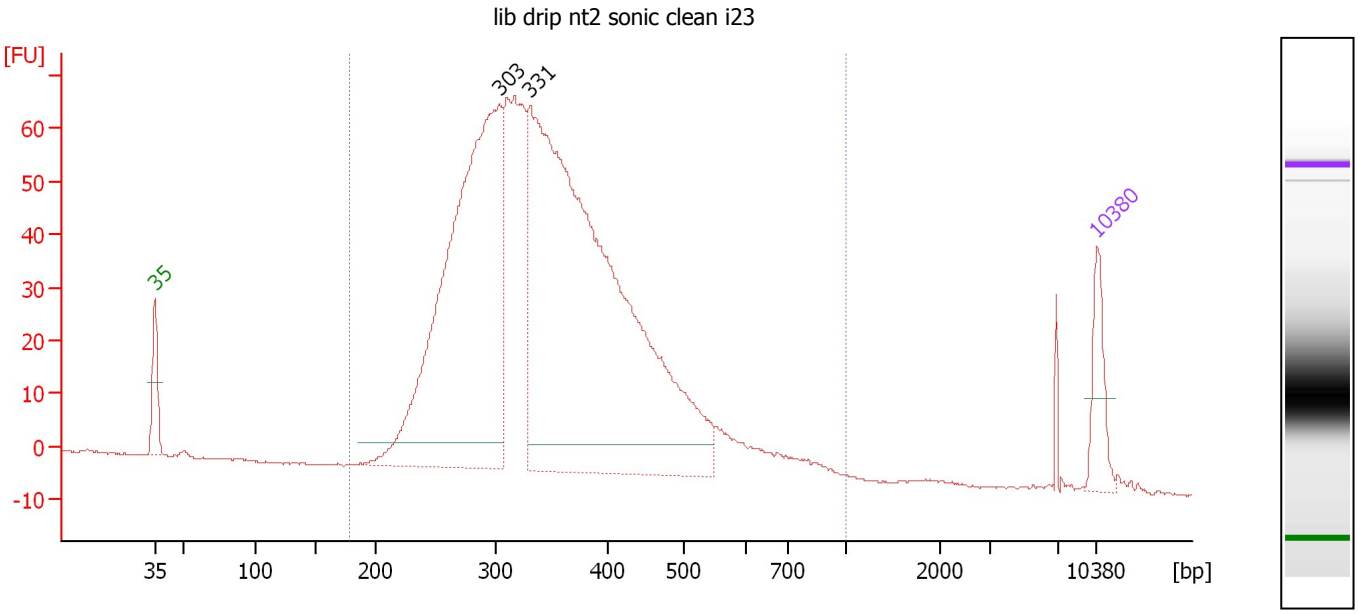
Region table for sample 6 : lib dripc hela1 clean i20

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	425	3,929.3	64,963.0	16,516.18	99	27.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : lib drip nt2 sonic clean i23

Number of peaks found:	2	Corr. Area 1:	1,341.7
Noise:	0.2		

Peak table for sample 7 : lib drip nt2 sonic clean i23

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	303	1,403.98	7,023.8		68.57
3	331	2,078.22	9,526.7		70.85
4	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 7 : lib drip nt2 sonic clean i23

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
179	1,000	358	1,341.7	18,059.0	3,954.50	99	27.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
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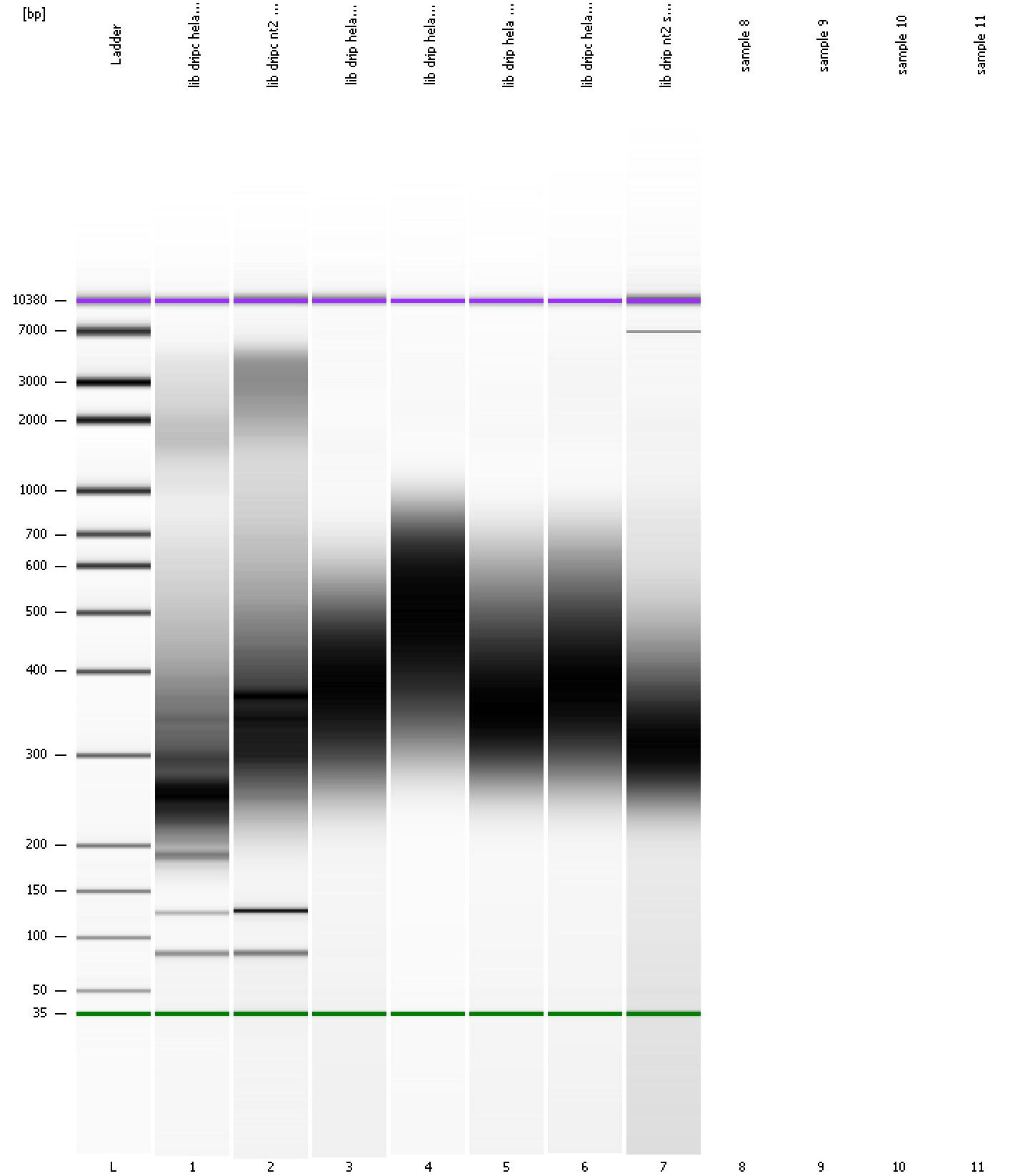
Gel Image

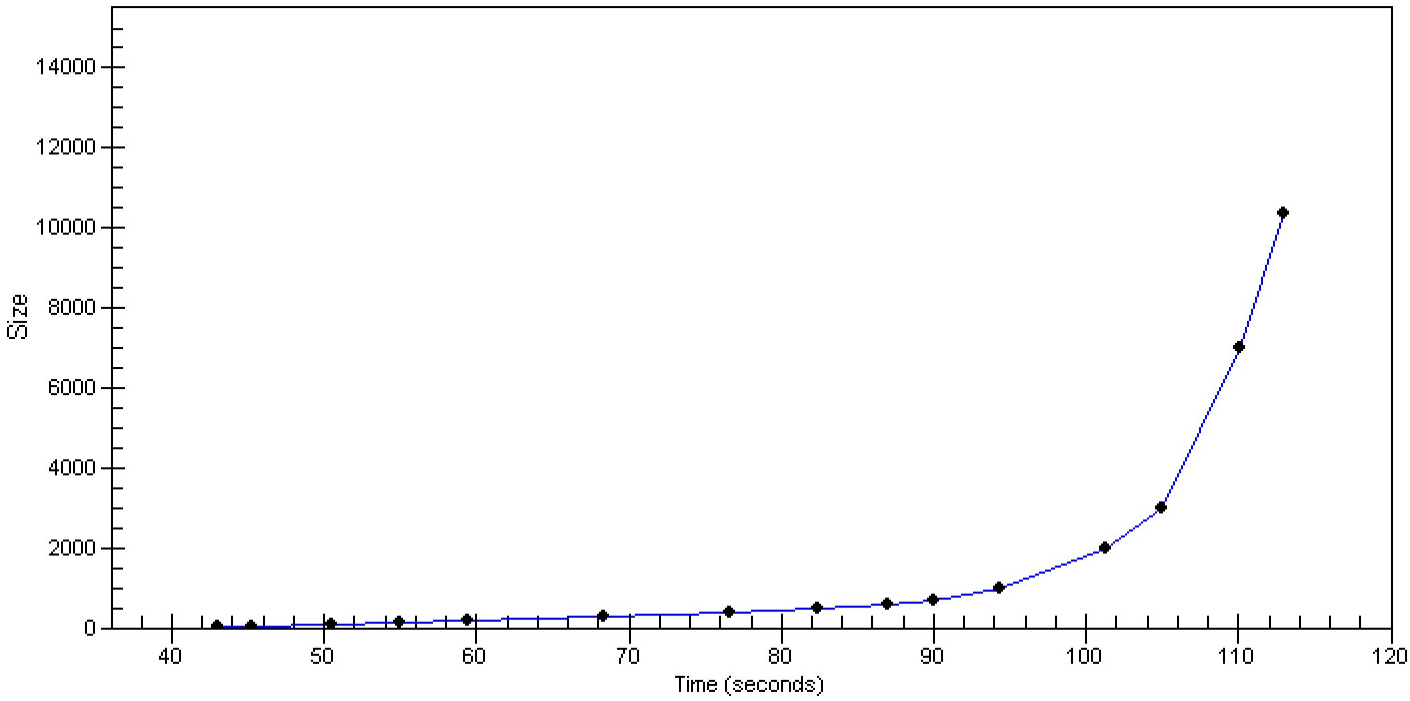


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Invalid Samples

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad

Created: 4/19/2016 11:05:48 AM
Modified: 4/19/2016 11:36:02 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		4/19/2016 11:35:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_001.xad)		Instrument	Run		4/19/2016 11:05:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/19/2016 11:05:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/19/2016 11:05:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/19/2016 11:05:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/19/2016 11:05:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/19/2016 11:05:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/19/2016 11:05:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1