

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-07\2017-03-07_002.xad

Created: 3/7/2017 10:57:01 AM
Modified: 3/7/2017 11:35:30 AM

Electrophoresis File Run Summary

Instrument Information:

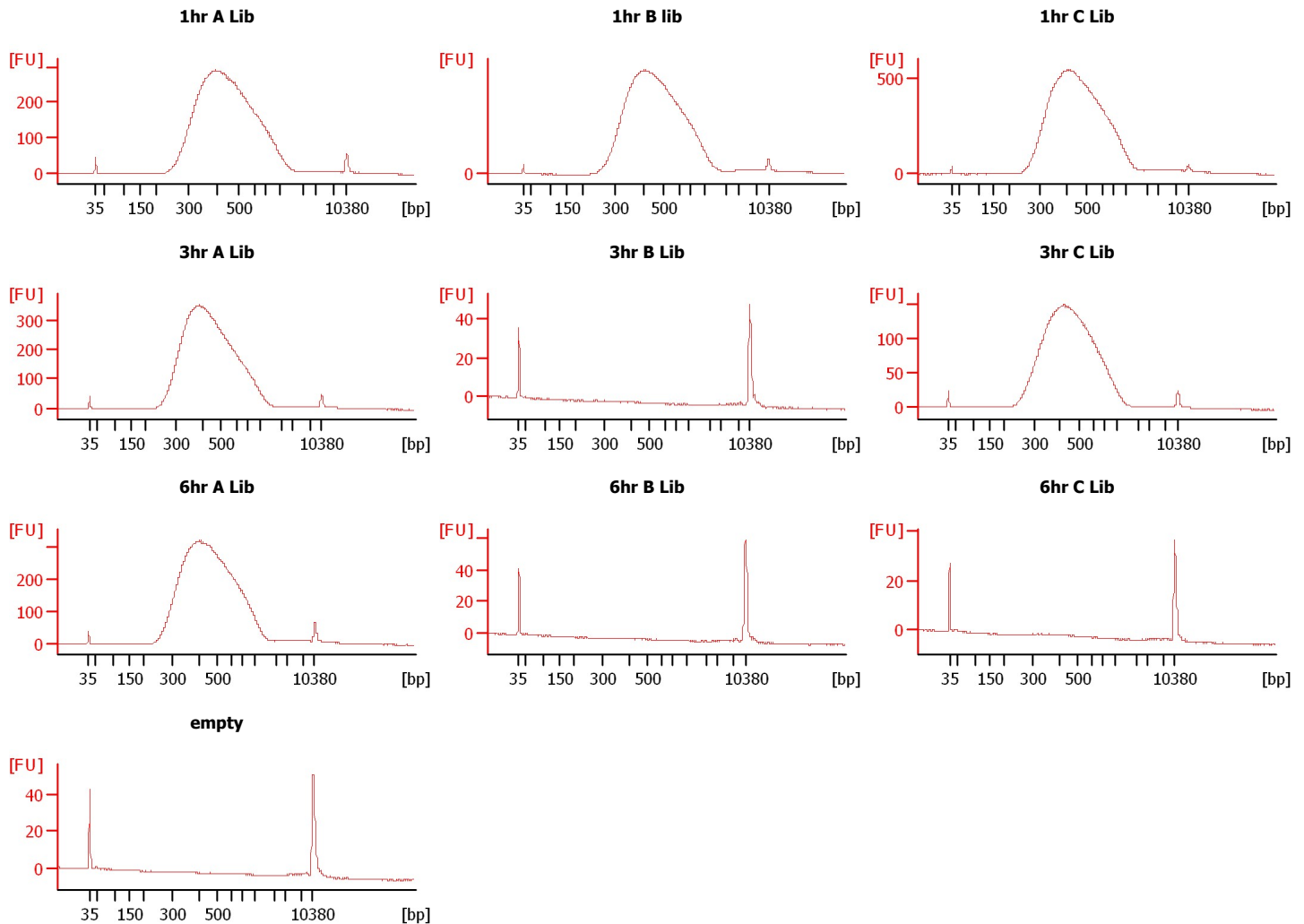
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1hr A Lib		<input type="checkbox"/>	✓			
1hr B lib		<input type="checkbox"/>	✓			
1hr C Lib		<input type="checkbox"/>	✓			
3hr A Lib		<input type="checkbox"/>	✓			
3hr B Lib		<input type="checkbox"/>	✓			
3hr C Lib		<input type="checkbox"/>	✓			
6hr A Lib		<input type="checkbox"/>	✓			
6hr B Lib		<input type="checkbox"/>	✓			
6hr C Lib		<input type="checkbox"/>	✓			
empty		<input type="checkbox"/>	✓			
N/A		<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

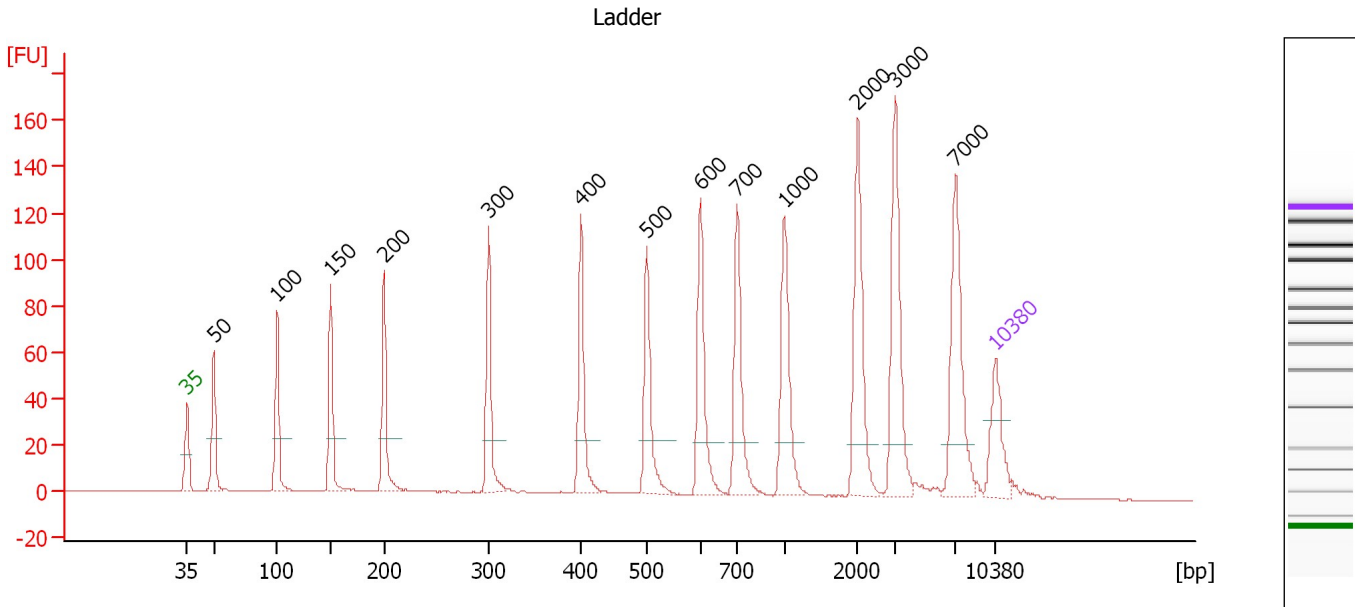
Ladder

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

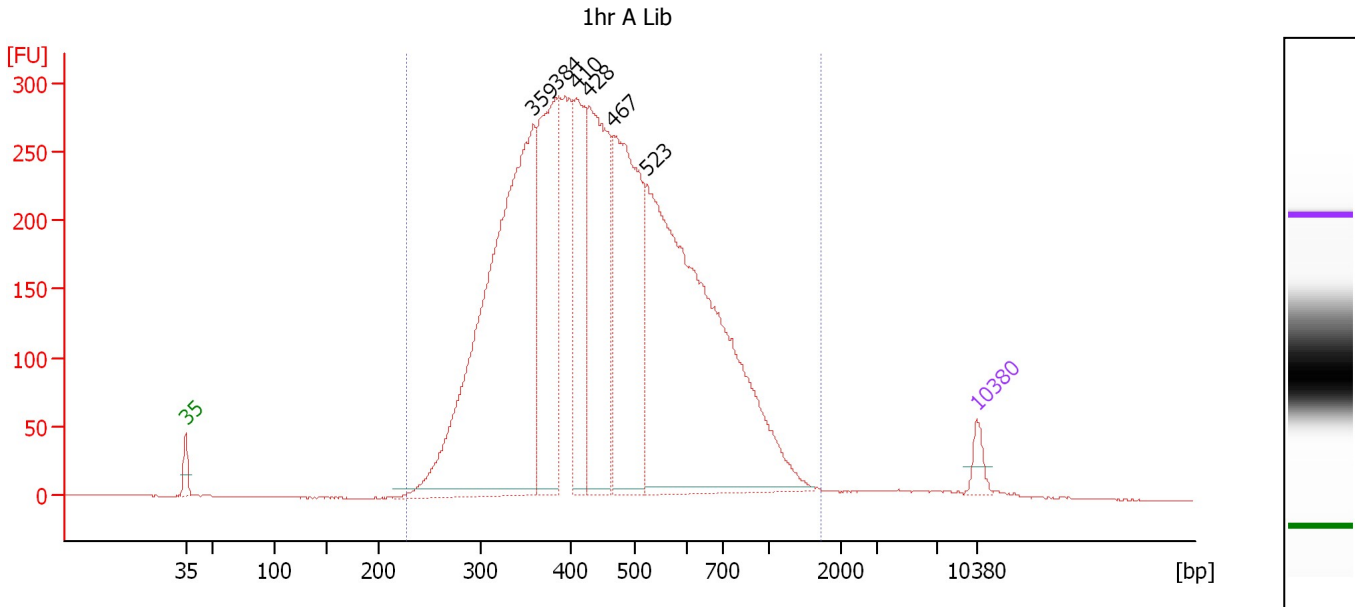
Peak table for Ladder

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	45.31
3	100	150.00	2,272.7	Ladder Peak	50.80
4	150	150.00	1,515.2	Ladder Peak	55.46
5	200	150.00	1,136.4	Ladder Peak	60.07
6	300	150.00	757.6	Ladder Peak	69.12
7	400	150.00	568.2	Ladder Peak	77.10
8	500	150.00	454.5	Ladder Peak	82.78
9	600	150.00	378.8	Ladder Peak	87.44
10	700	150.00	324.7	Ladder Peak	90.62
11	1,000	150.00	227.3	Ladder Peak	94.68
12	2,000	150.00	113.6	Ladder Peak	101.05
13	3,000	150.00	75.8	Ladder Peak	104.28
14	7,000	150.00	32.5	Ladder Peak	109.49
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 1hr A Lib

Number of peaks found: 6 Corr. Area 1: 7,367.4
 Noise: 0.2

Peak table for sample 1 : 1hr A Lib

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	359	4,141.87	17,483.4		73.82
3	384	1,510.30	5,962.6		75.81
4	410	992.41	3,670.9		77.65
5	428	1,554.75	5,505.1		78.68
6	467	1,786.40	5,795.9		80.90
7	523	4,034.75	11,697.6		83.83
8	10,380	75.00	10.9	Upper Marker	113.00

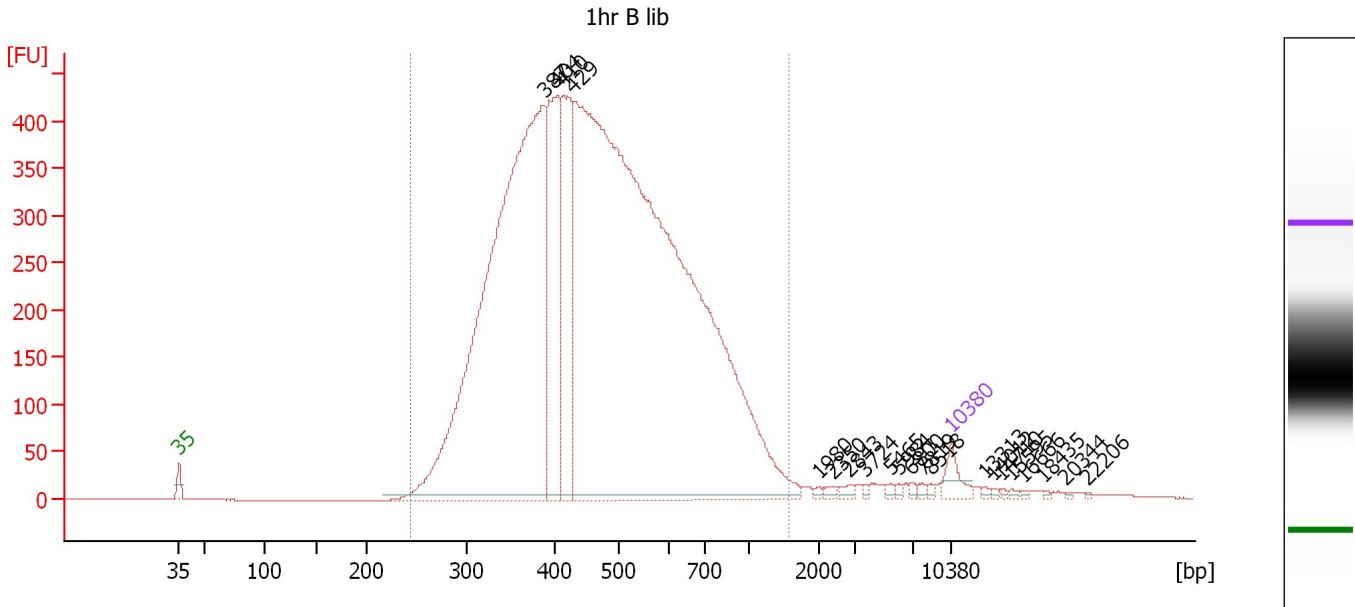
Region table for sample 1 : 1hr A Lib

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
228	1,718	480	7,367.4	55,353.9	15,351.67	99	36.7

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 1hr B lib

Number of peaks found: 21 Corr. Area 1: 10,469.8
 Noise: 0.3

Peak table for sample 2 : 1hr B lib

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	387	4,747.28	18,597.6		76.04
3	404	967.72	3,633.7		77.30
4	410	854.28	3,154.5		77.69
5	429	8,423.56	29,747.3		78.75
6	1,980	10.48	8.0		100.92
7	2,350	17.31	11.2		102.18
8	2,843	20.07	10.7		103.77
9	3,724	9.93	4.0		105.22
10	5,465	14.48	4.0		107.49
11	5,984	9.81	2.5		108.17
12	6,800	11.61	2.6		109.23
13	7,819	13.31	2.6		110.34
14	8,518	10.49	1.9		111.07
15	10,380	75.00	10.9	Upper Marker	113.00
16	13,313	0.00	0.0		116.04
17	14,012	0.00	0.0		116.77
18	14,710	0.00	0.0		117.49
19	15,595	0.00	0.0		118.41
20	16,666	0.00	0.0		119.52
21	18,435	0.00	0.0		121.36
22	20,344	0.00	0.0		123.34
23	22,206	0.00	0.0		125.27

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Electropherogram Summary Continued ...

... Region table for sample 2 :

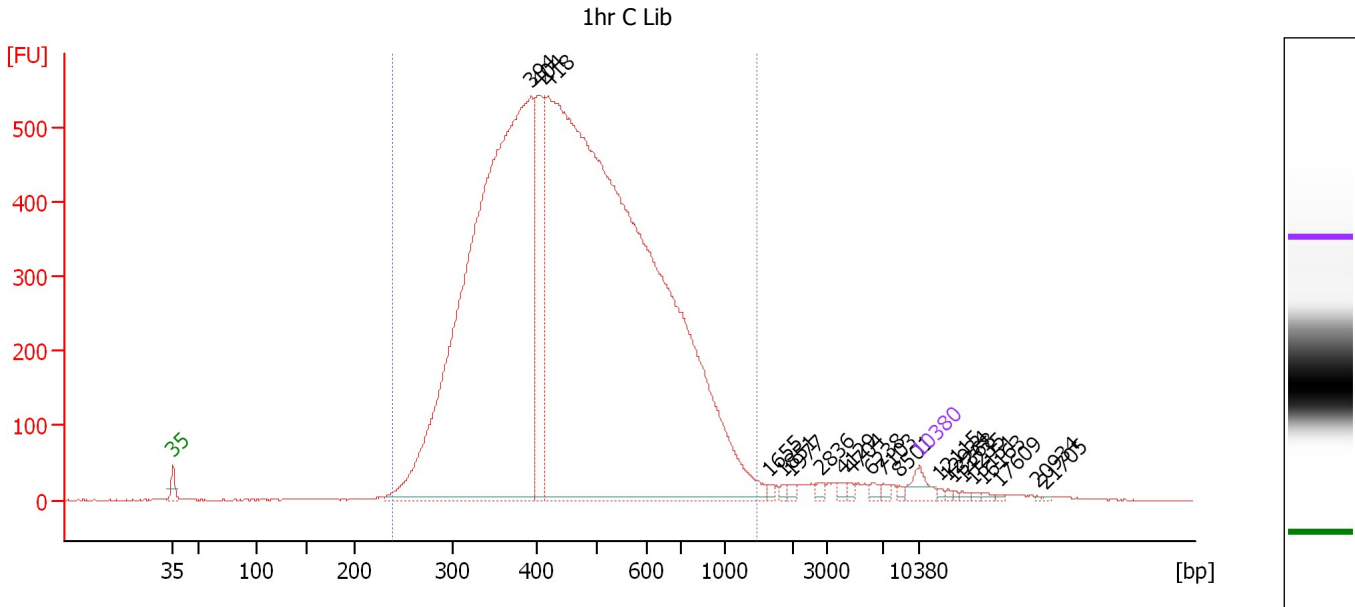
1hr B lib

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
244	1,558	497	10,469.8	49,855.7	■ 14,352.07	97	36.1

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 1hr C Lib

Number of peaks found: 21 Corr. Area 1: 13,280.1
 Noise: 0.7

Peak table for sample 3 : 1hr C Lib

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	394	7,086.60	27,270.3		76.60
3	404	900.80	3,375.0		77.35
4	418	11,264.00	40,780.9		78.15
5	1,655	16.45	15.1		98.85
6	1,851	16.47	13.5		100.10
7	1,977	20.59	15.8		100.90
8	2,836	24.89	13.3		103.75
9	4,129	21.44	7.9		105.75
10	4,704	17.77	5.7		106.50
11	6,238	24.87	6.0		108.50
12	7,103	19.56	4.2		109.60
13	8,501	12.98	2.3		111.05
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,115	0.00	0.0		114.80
16	12,934	0.00	0.0		115.65
17	13,368	0.00	0.0		116.10
18	14,235	0.00	0.0		117.00
19	15,151	0.00	0.0		117.95
20	16,163	0.00	0.0		119.00
21	17,609	0.00	0.0		120.50
22	20,934	0.00	0.0		123.95
23	21,705	0.00	0.0		124.75

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Electropherogram Summary Continued ...

... Region table for sample 3 :

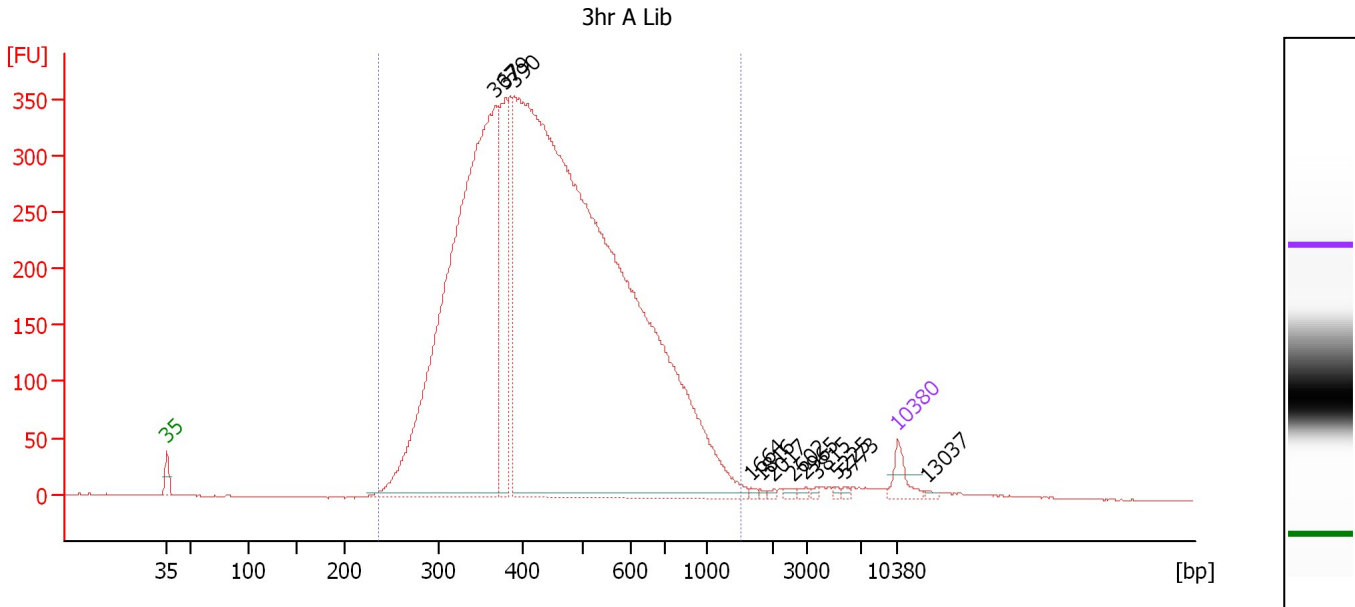
1hr C Lib

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
238	1,474	483	13,280.1	66,996.3	18,874.39	97	34.5

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 3hr A Lib

Number of peaks found: 12 Corr. Area 1: 8,312.1
 Noise: 0.5

Peak table for sample 4 : 3hr A Lib

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	367	4,642.77	19,177.0		74.45
3	379	720.53	2,880.7		75.42
4	390	9,700.41	37,701.0		76.29
5	1,664	10.64	9.7		98.91
6	1,816	6.07	5.1		99.88
7	2,017	7.45	5.6		101.10
8	2,602	12.42	7.2		102.99
9	2,965	12.72	6.5		104.17
10	3,815	10.50	4.2		105.34
11	5,225	7.60	2.2		107.18
12	5,773	9.82	2.6		107.89
13	10,380	75.00	10.9	Upper Marker	113.00
14	13,037	0.00	0.0		115.76

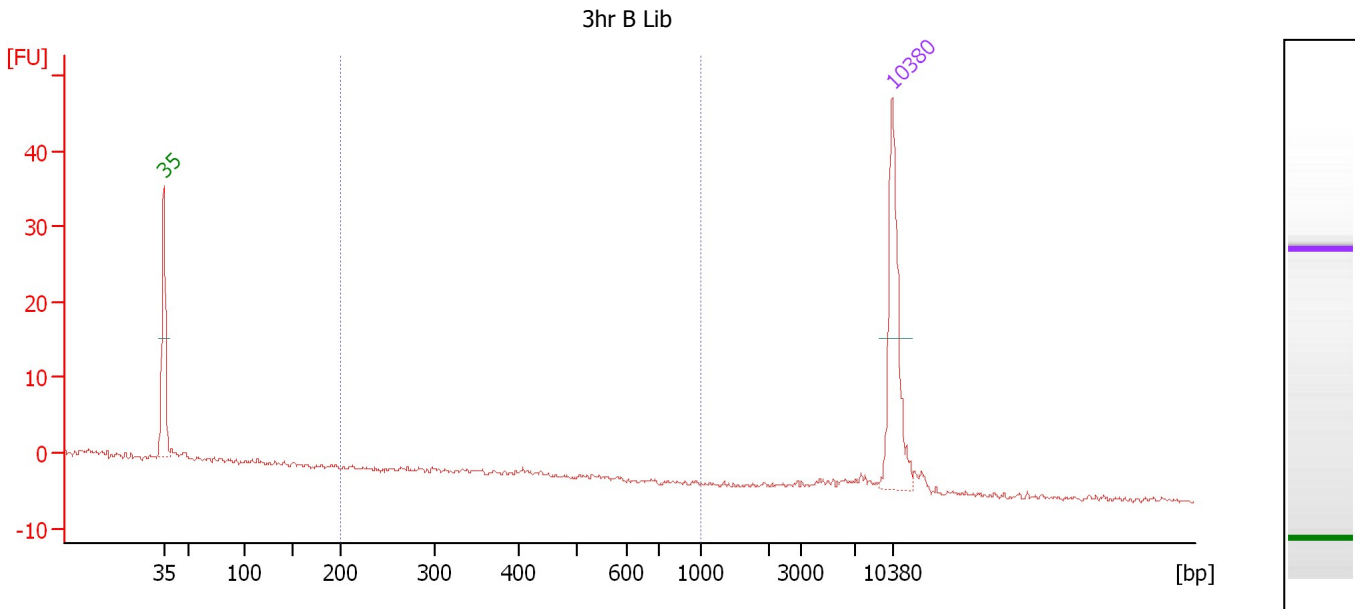
Region table for sample 4 : 3hr A Lib

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
236	1,526	470	8,312.1	53,081.7	14,578.11	98	35.0

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 3hr B Lib

Number of peaks found: 0 Corr. Area 1: 0.3
 Noise: 0.4

Peak table for sample 5 : 3hr B Lib

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

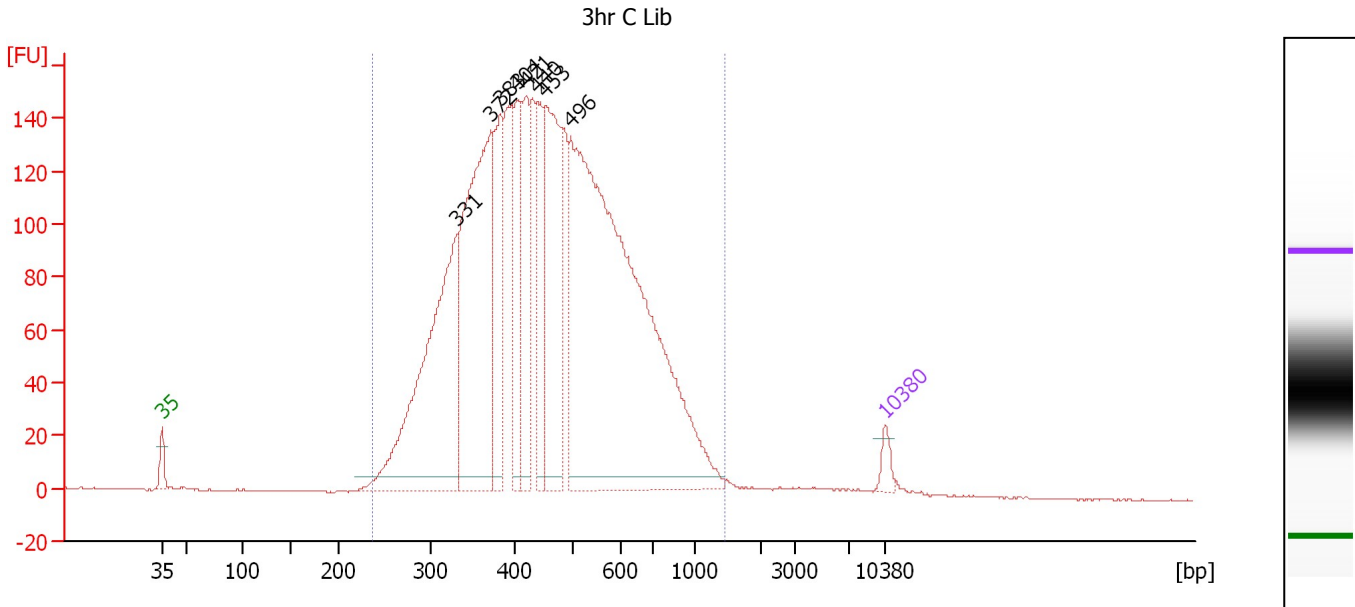
Region table for sample 5 : 3hr B Lib

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	408	0.3	2.7	0.71	3	9.0

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 3hr C Lib

Number of peaks found: 8 Corr. Area 1: 3,654.7
 Noise: 0.2

Peak table for sample 6 : 3hr C Lib

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	331	2,571.89	11,783.4		71.57
3	372	2,653.34	10,803.6		74.87
4	383	870.17	3,441.3		75.75
5	404	696.57	2,609.3		77.35
6	421	737.94	2,656.7		78.28
7	440	674.08	2,321.4		79.37
8	453	1,508.64	5,049.1		80.09
9	496	5,909.37	18,036.8		82.57
10	10,380	75.00	10.9	Upper Marker	113.00

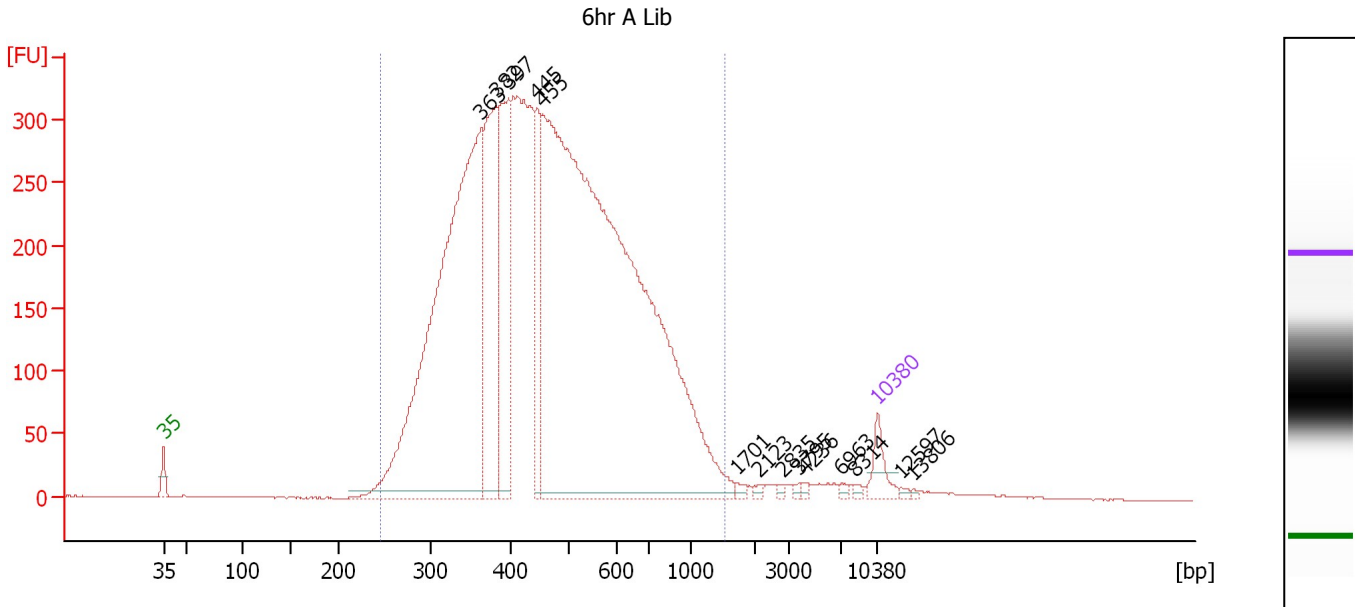
Region table for sample 6 : 3hr C Lib

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
237	1,451	480	3,654.7	61,575.8	17,284.56	98	33.4

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 6hr A Lib

Number of peaks found: 14 Corr. Area 1: 8,070.6
 Noise: 0.2

Peak table for sample 7 : 6hr A Lib

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	363	2,969.26	12,388.9		74.16
3	382	938.75	3,722.2		75.67
4	397	606.21	2,316.3		76.82
5	445	369.24	1,257.6		79.65
6	455	5,554.52	18,496.6		80.22
7	1,701	13.53	12.0		99.15
8	2,123	10.73	7.7		101.45
9	2,835	8.32	4.4		103.75
10	3,795	8.10	3.2		105.32
11	4,236	8.71	3.1		105.89
12	6,963	11.40	2.5		109.45
13	8,314	8.73	1.6		110.86
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,597	0.00	0.0		115.30
16	13,806	0.00	0.0		116.55

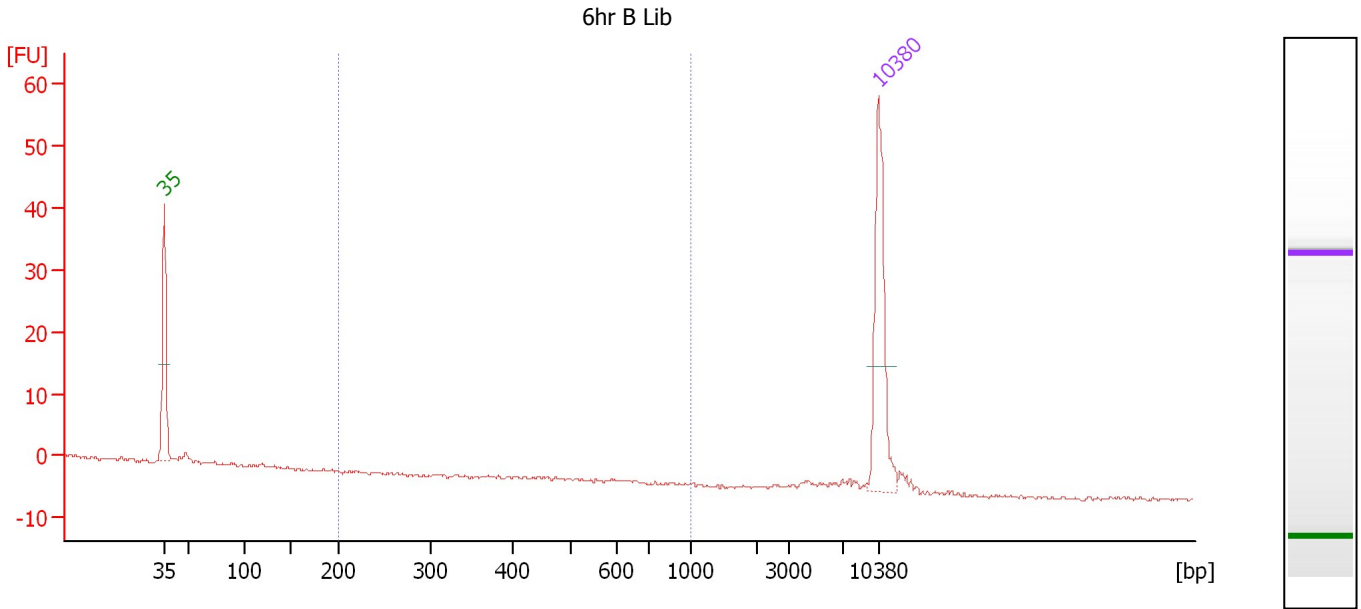
Region table for sample 7 : 6hr A Lib

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
247	1,529	493	8,070.6	40,213.7	11,396.41	97	36.9

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 6hr B Lib

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.3

Peak table for sample 8 : 6hr B Lib

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

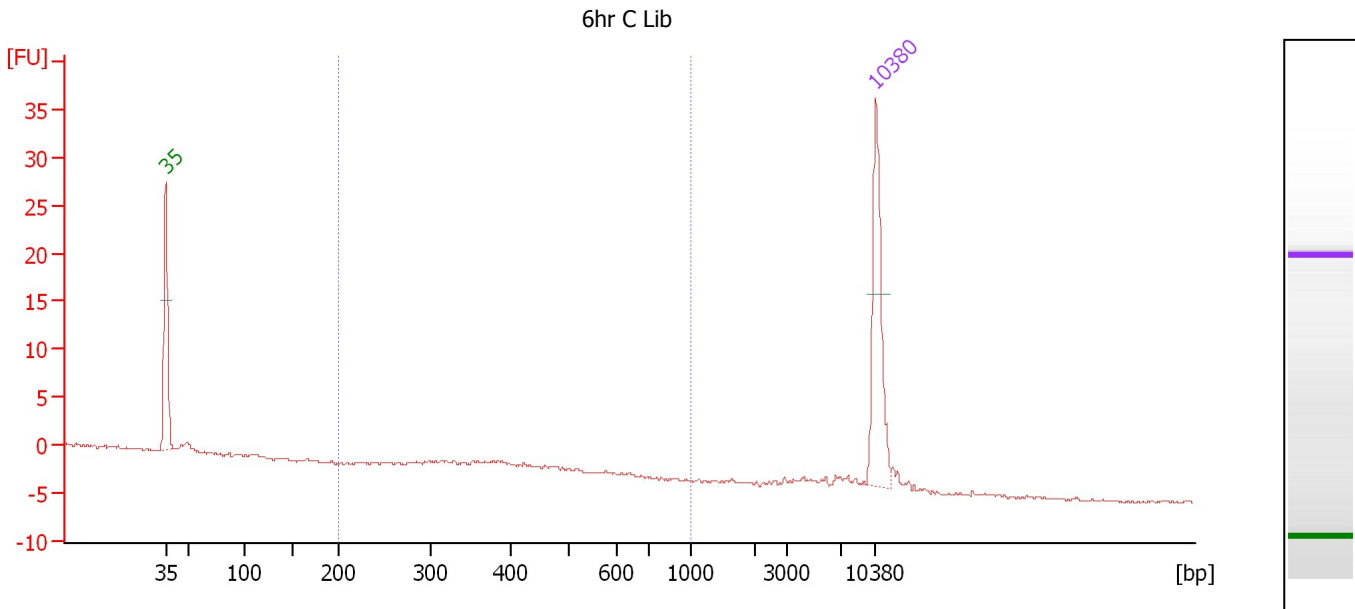
Region table for sample 8 : 6hr B Lib

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	0	0.0	0.0	0.00	0	0.0

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 6hr C Lib

Number of peaks found: 0 Corr. Area 1: 5.0
 Noise: 0.2

Peak table for sample 9 : 6hr C Lib

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

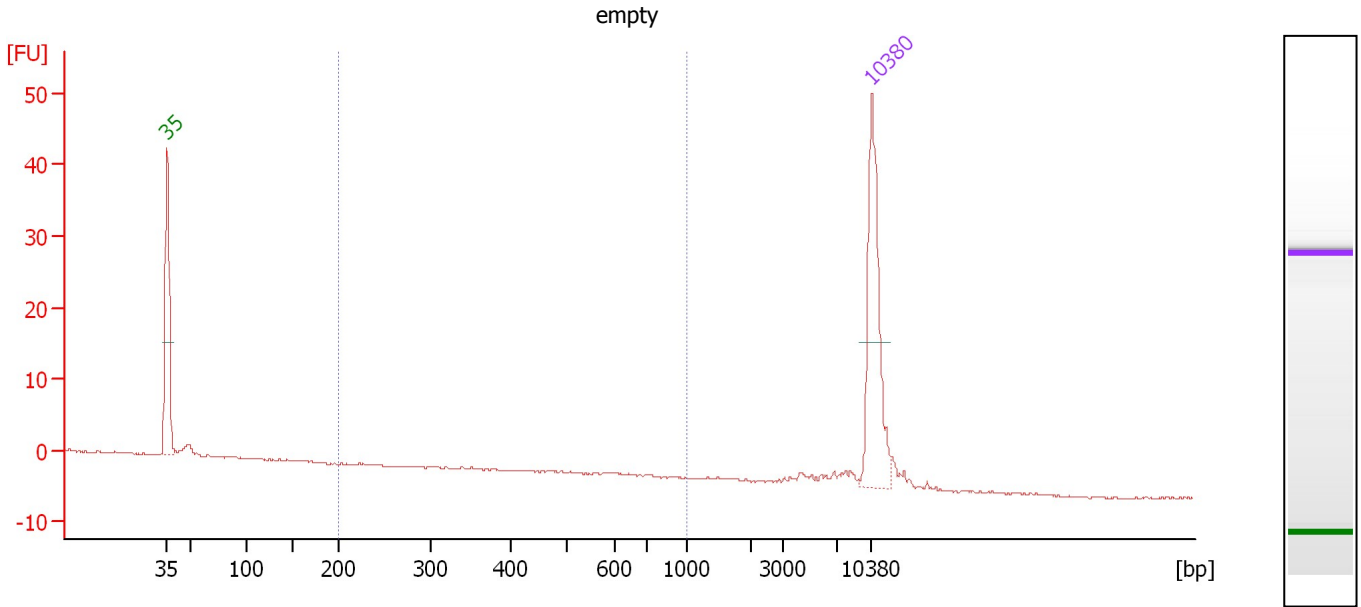
Region table for sample 9 : 6hr C Lib

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	386	5.0	62.4	15.53	42	14.5

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Electropherogram Summary Continued ...



Overall Results for sample 10 : empty

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

Peak table for sample 10 : empty

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 10 : empty

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	581	0.1	0.6	0.23	1	14.5

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Gel Image

Assay Class: High Sensitivity DNA Assay
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Invalid Samples

Sample 11 has not been run, no results available.

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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: 11)		Instrument	Run		3/7/2017 11:35:28 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-03-07\2017-03-07_002.xad)		Instrument	Run		3/7/2017 10:57:07 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/7/2017 10:57:07 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/7/2017 10:57:07 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/7/2017 10:57:07 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/7/2017 10:57:07 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/7/2017 10:57:07 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/7/2017 10:57:07 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1