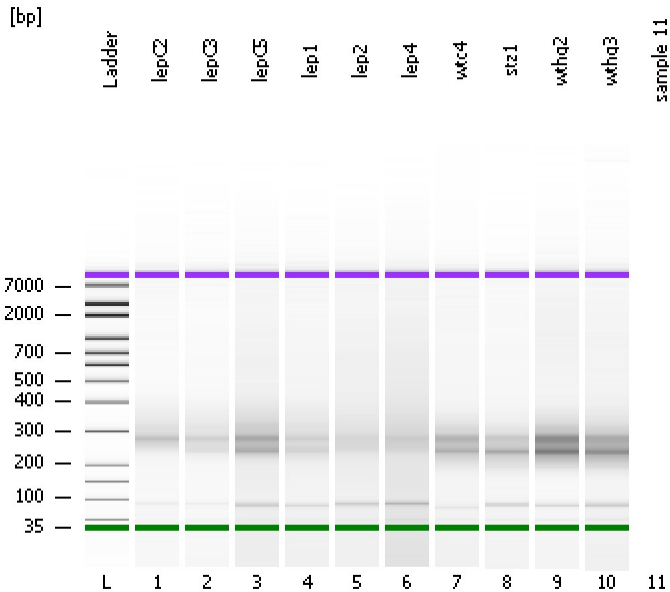


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
Modified: 2/8/2017 11:54:49 AM

Electrophoresis File Run Summary



Instrument Information:

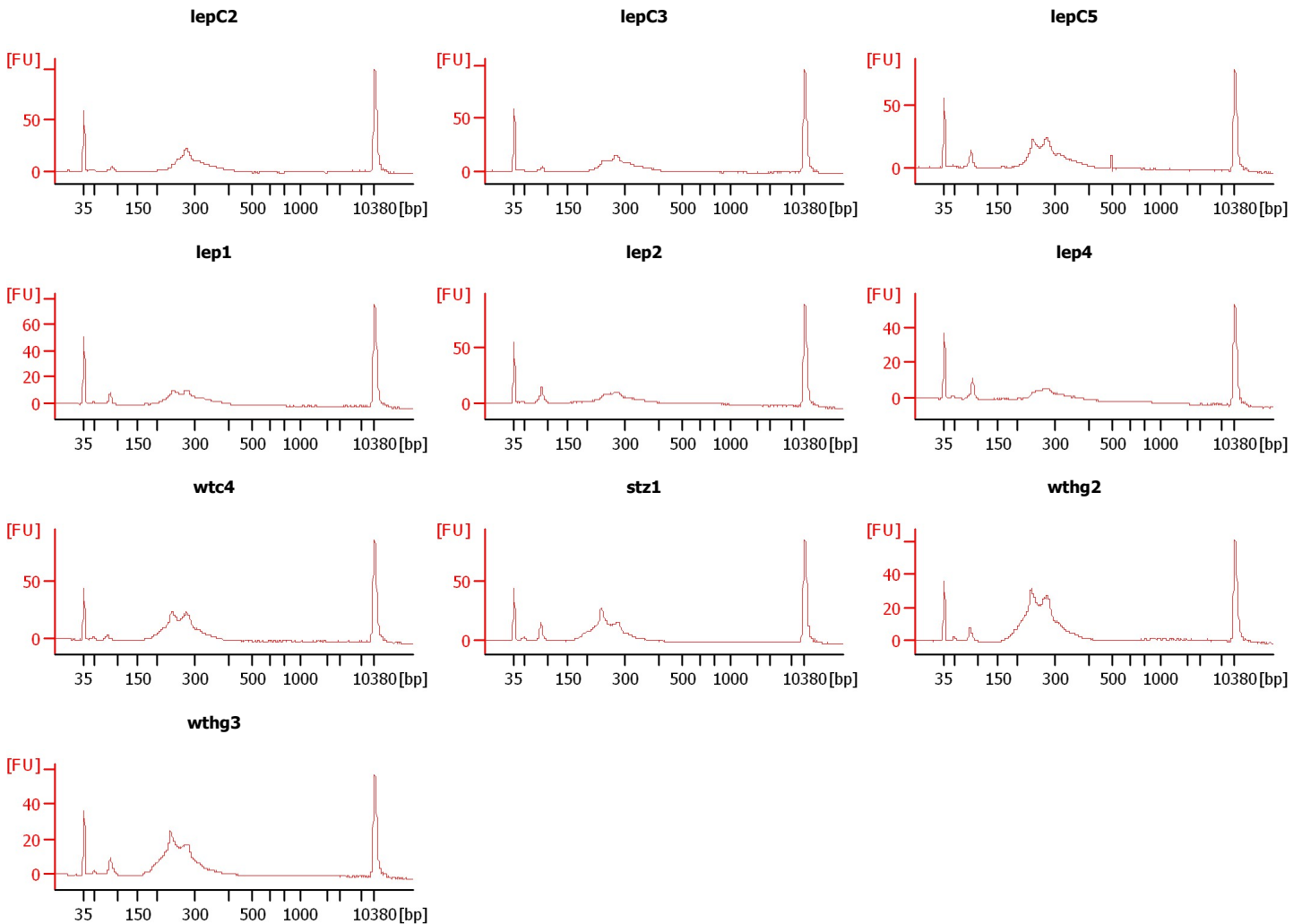
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
lepC2		<input type="checkbox"/>	✓			
lepC3		<input type="checkbox"/>	✓			
lepC5		<input type="checkbox"/>	✓			
lep1		<input type="checkbox"/>	✓			
lep2		<input type="checkbox"/>	✓			
lep4		<input type="checkbox"/>	✓			
wtc4		<input type="checkbox"/>	✓			
stz1		<input type="checkbox"/>	✓			
wthg2		<input type="checkbox"/>	✓			
wthg3		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
Modified: 2/8/2017 11:54:49 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

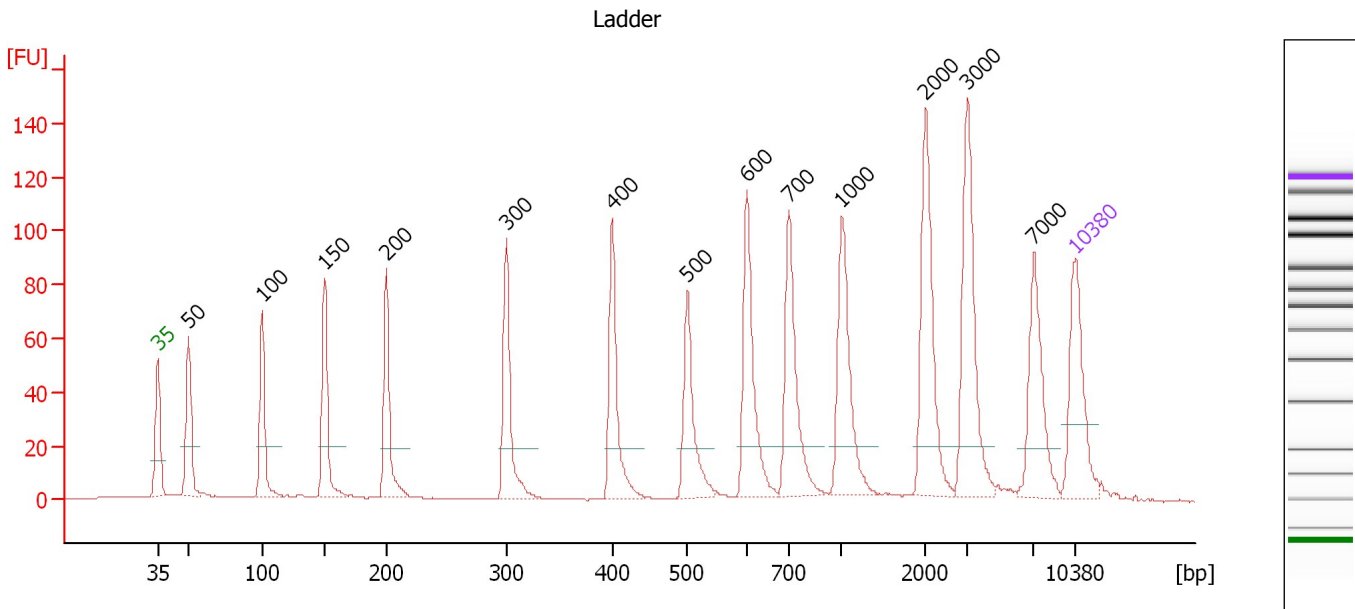
Ladder

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\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

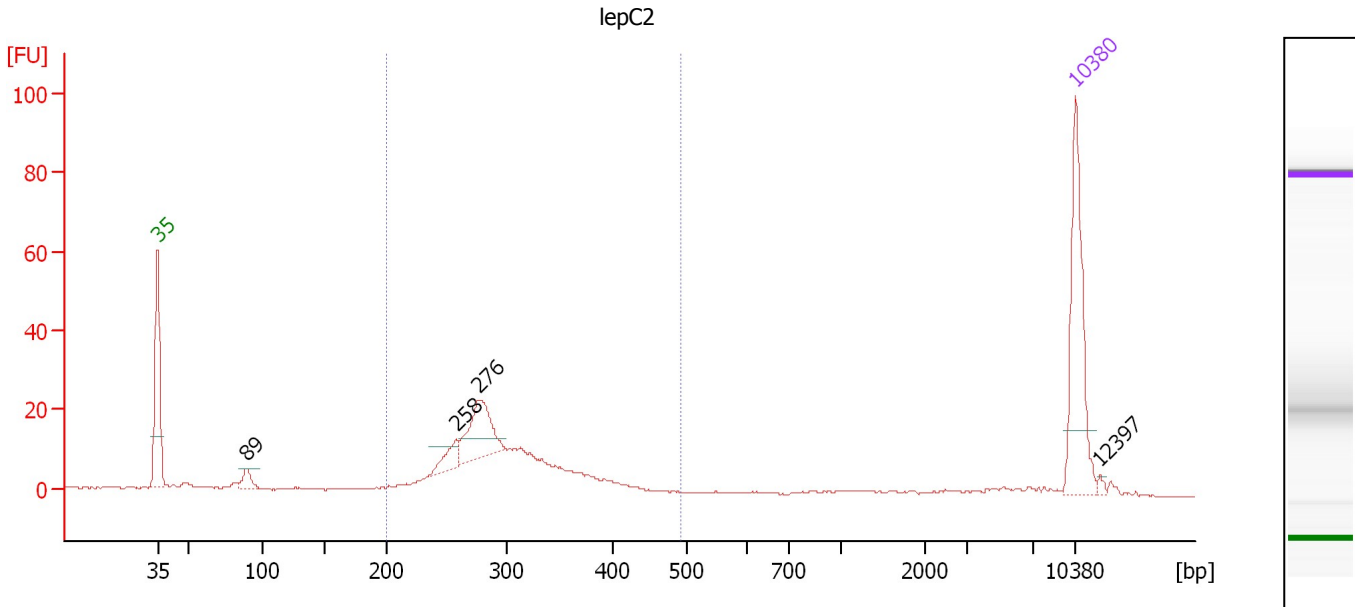
Peak table for Ladder

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	45.38
3	100	150.00	2,272.7	Ladder Peak	51.01
4	150	150.00	1,515.2	Ladder Peak	55.76
5	200	150.00	1,136.4	Ladder Peak	60.46
6	300	150.00	757.6	Ladder Peak	69.61
7	400	150.00	568.2	Ladder Peak	77.66
8	500	150.00	454.5	Ladder Peak	83.40
9	600	150.00	378.8	Ladder Peak	87.94
10	700	150.00	324.7	Ladder Peak	91.15
11	1,000	150.00	227.3	Ladder Peak	95.18
12	2,000	150.00	113.6	Ladder Peak	101.58
13	3,000	150.00	75.8	Ladder Peak	104.79
14	7,000	150.00	32.5	Ladder Peak	109.85
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : lepC2

Number of peaks found: 4 Corr. Area 1: 208.1
 Noise: 0.2

Peak table for sample 1 : lepC2

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	89	13.63	231.5		49.79
3	258	17.79	104.4		65.78
4	276	61.44	336.8		67.45
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,397	0.00	0.0		114.88

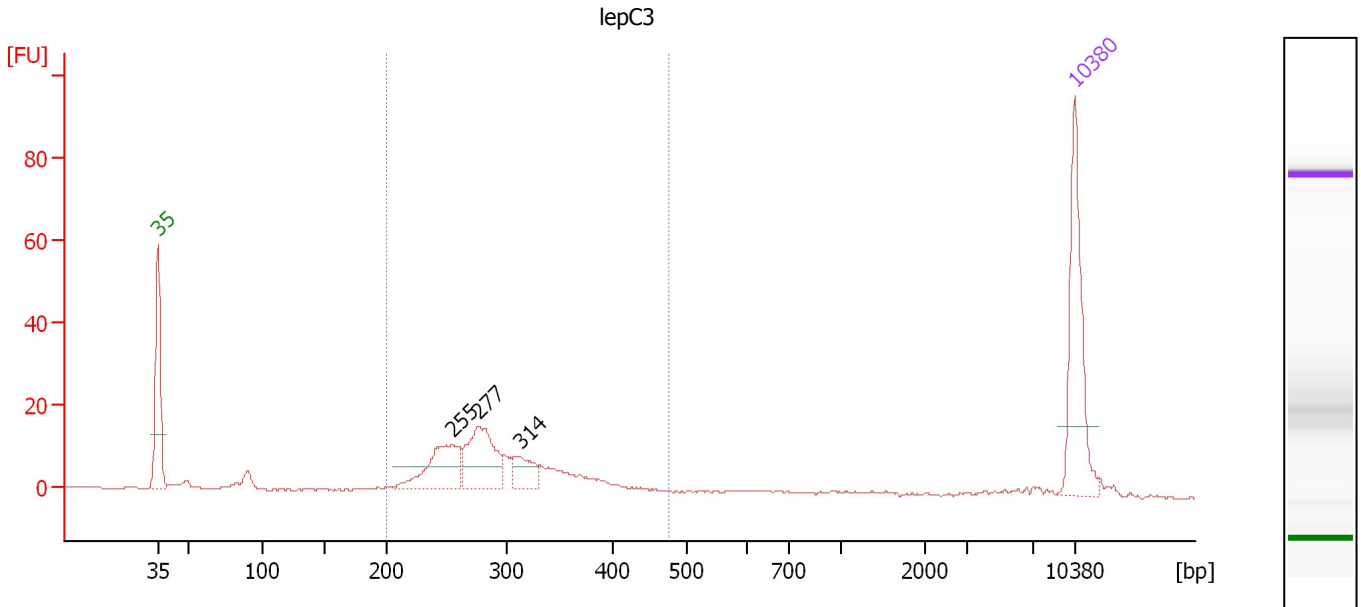
Region table for sample 1 : lepC2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	492	300	208.1	1,473.0	283.77	79	15.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : lepC3

Number of peaks found: 3 Corr. Area 1: 167.0
 Noise: 0.2

Peak table for sample 2 : lepC3

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	255	64.43	382.5		65.51
3	277	74.18	405.7		67.50
4	314	26.44	127.8		70.70
5	10,380	75.00	10.9	Upper Marker	113.00

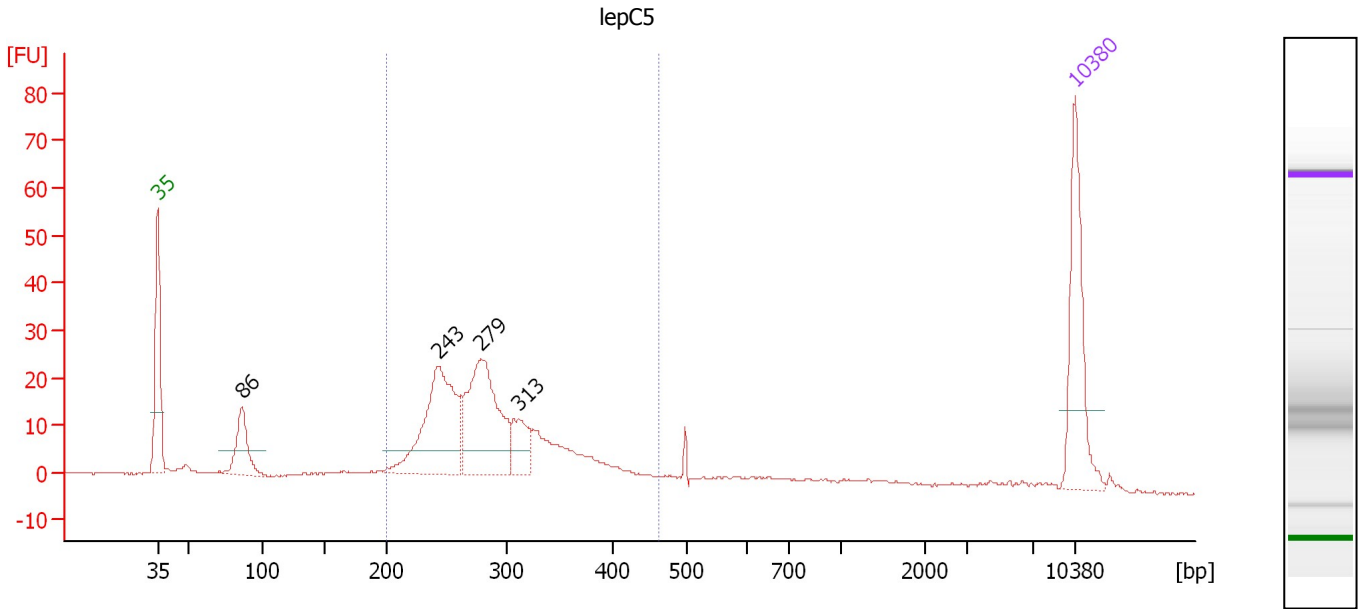
Region table for sample 2 : lepC3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	475	294	167.0	1,241.1	234.29	87	16.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : lepC5

Number of peaks found: 4 Corr. Area 1: 310.2
 Noise: 0.2

Peak table for sample 3 : lepC5

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	54.81	963.2		49.46
3	243	157.99	983.5		64.43
4	279	150.49	818.2		67.66
5	313	34.28	166.2		70.62
6	10,380	75.00	10.9	Upper Marker	113.00

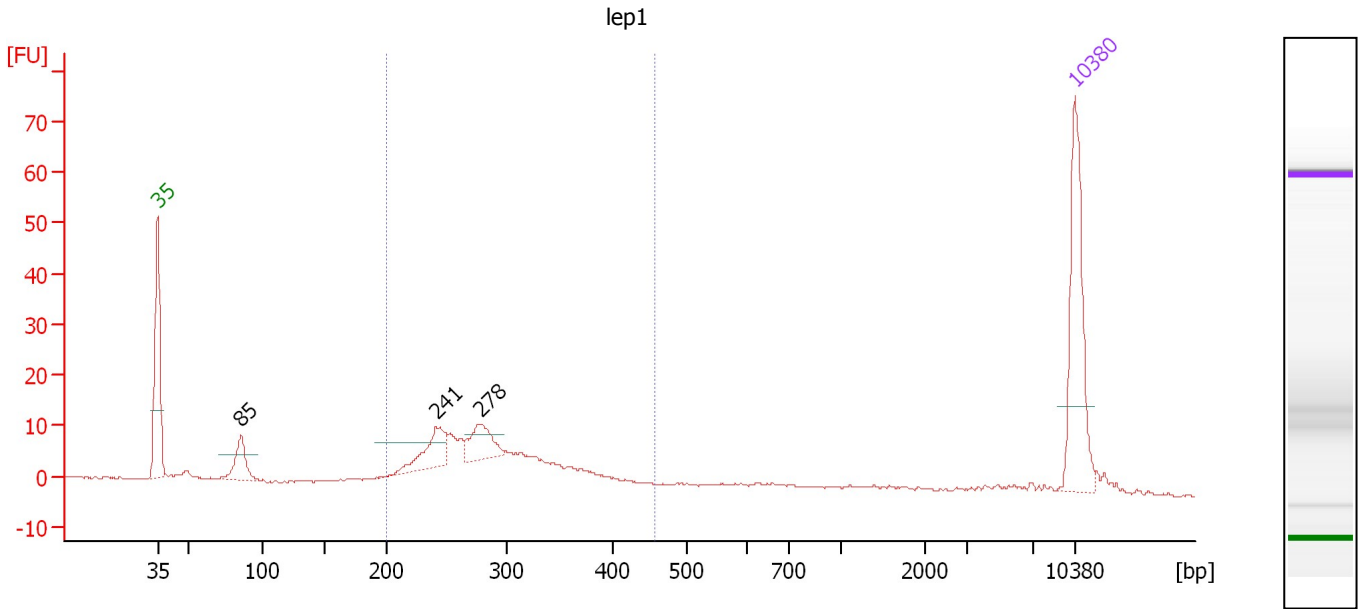
Region table for sample 3 : lepC5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	463	292	310.2	2,623.2	487.65	72	17.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : lep1

Number of peaks found: 3 Corr. Area 1: 147.8
 Noise: 0.2

Peak table for sample 4 : lep1

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	33.54	594.8		49.37
3	241	41.63	261.3		64.25
4	278	32.99	179.7		67.62
5	10,380	75.00	10.9	Upper Marker	113.00

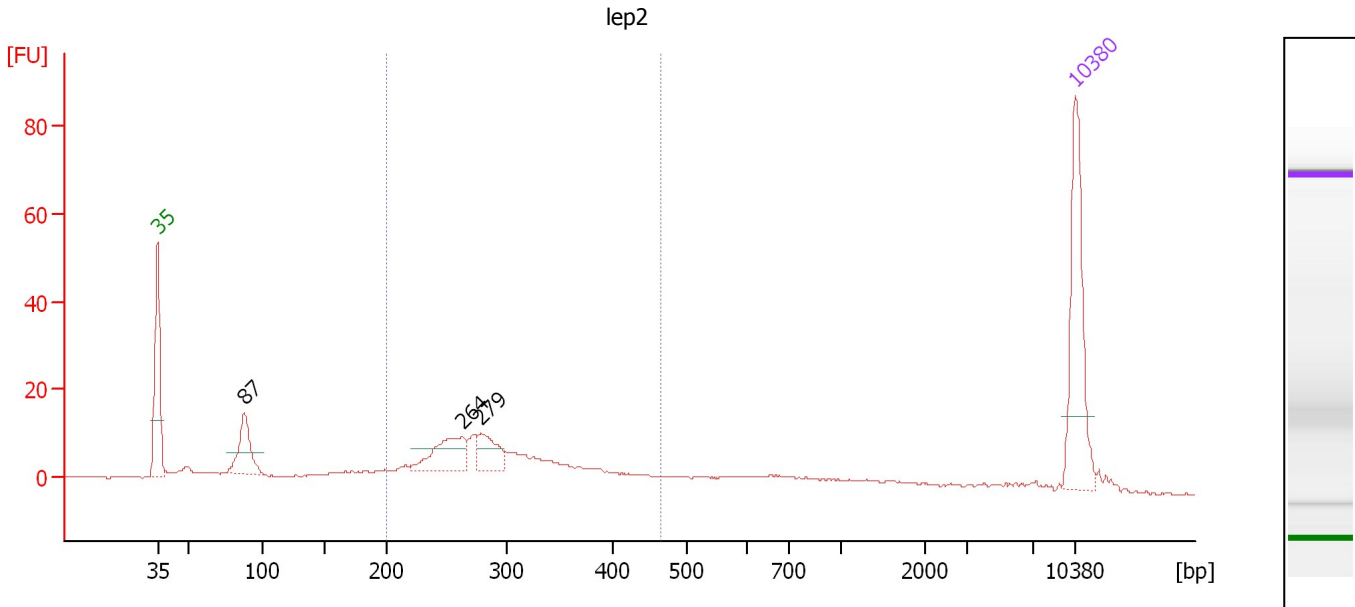
Region table for sample 4 : lep1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	457	289	147.8	1,326.5	245.01	74	17.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : lep2

Number of peaks found: 3 Corr. Area 1: 172.3
 Noise: 0.2

Peak table for sample 5 : lep2

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	87	50.27	870.9		49.59
3	264	47.76	274.3		66.30
4	279	30.58	166.3		67.65
5	10,380	75.00	10.9	Upper Marker	113.00

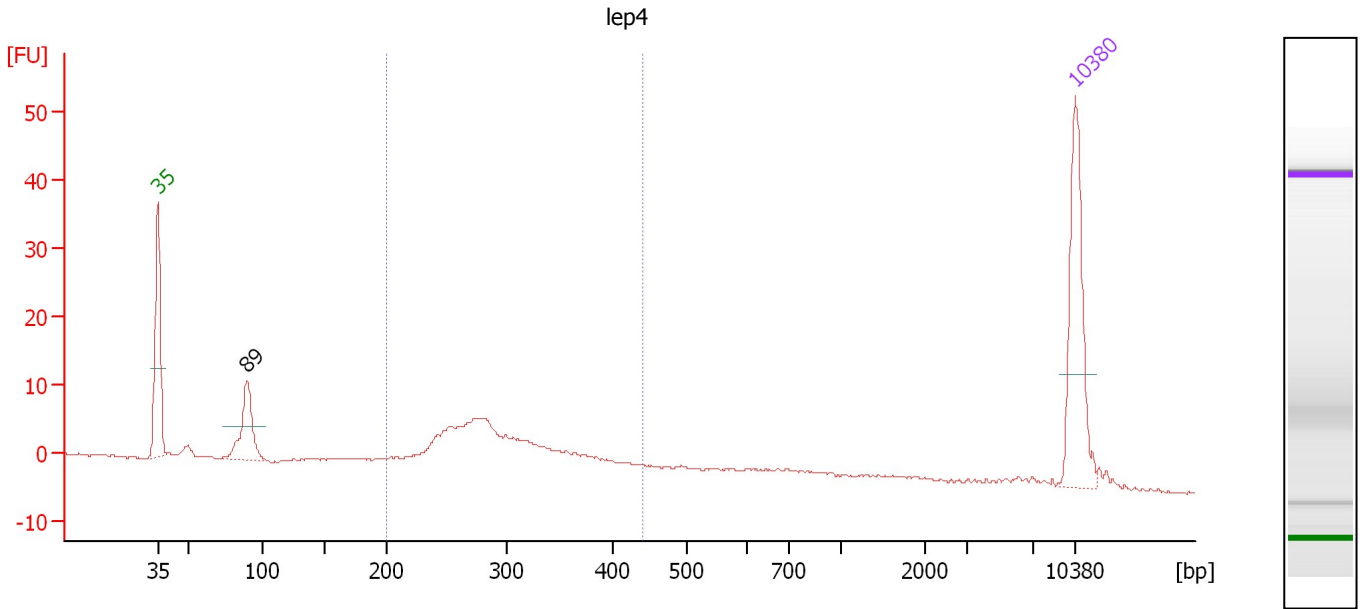
Region table for sample 5 : lep2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	465	302	172.3	1,323.0	251.48	51	20.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : lep4

Number of peaks found: 1 Corr. Area 1: 91.0
 Noise: 0.2

Peak table for sample 6 : lep4

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	89	59.75	1,014.7		49.79
3	10,380	75.00	10.9	Upper Marker	113.00

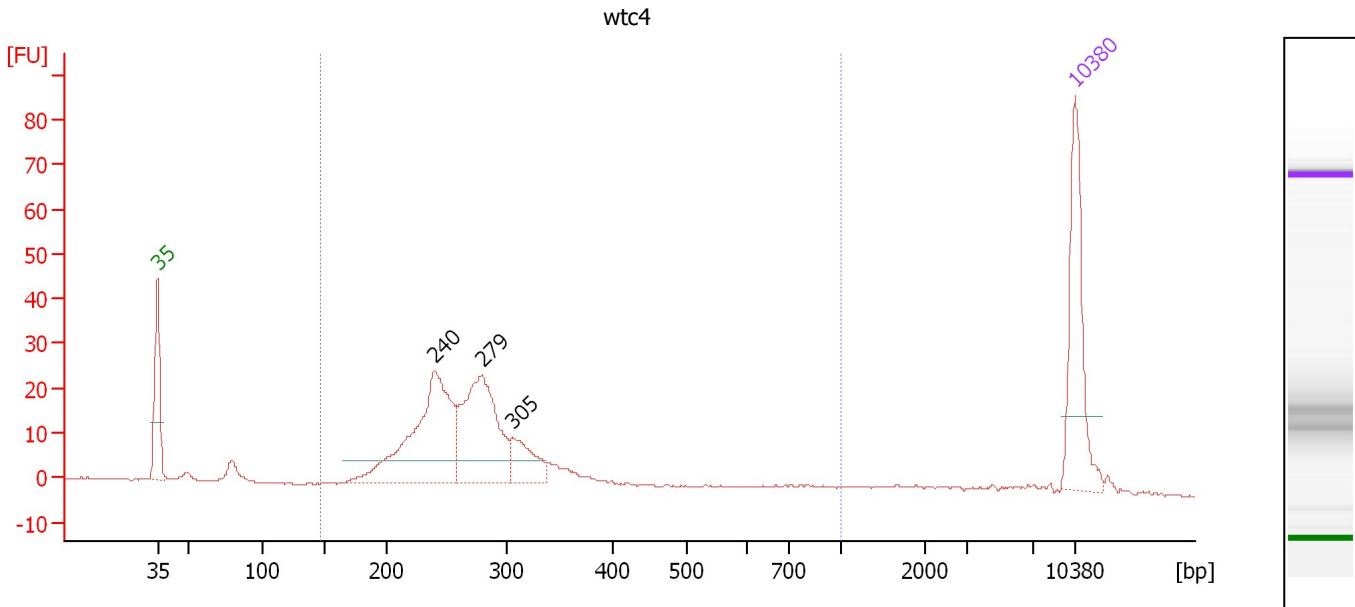
Region table for sample 6 : lep4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	442	299	91.0	1,019.1	194.51	60	17.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : wtc4

Number of peaks found: 3 Corr. Area 1: 286.3
 Noise: 0.2

Peak table for sample 7 : wtc4

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	240	192.10	1,210.5		64.16
3	279	145.83	790.8		67.72
4	305	38.39	190.6		70.02
5	10,380	75.00	10.9	Upper Marker	113.00

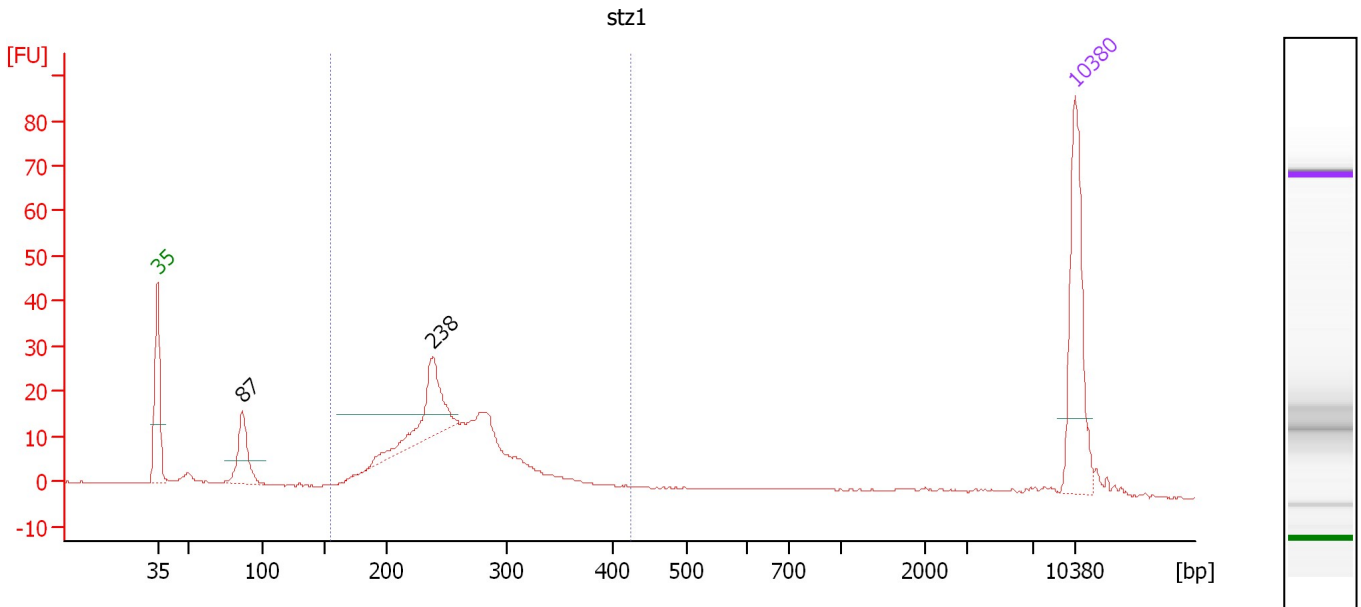
Region table for sample 7 : wtc4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
146	1,000	279	286.3	2,375.4	414.66	92	29.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : stz1

Number of peaks found: 2 Corr. Area 1: 248.9
 Noise: 0.1

Peak table for sample 8 : stz1

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	87	49.67	869.4		49.49
3	238	77.67	493.8		63.97
4	10,380	75.00	10.9	Upper Marker	113.00

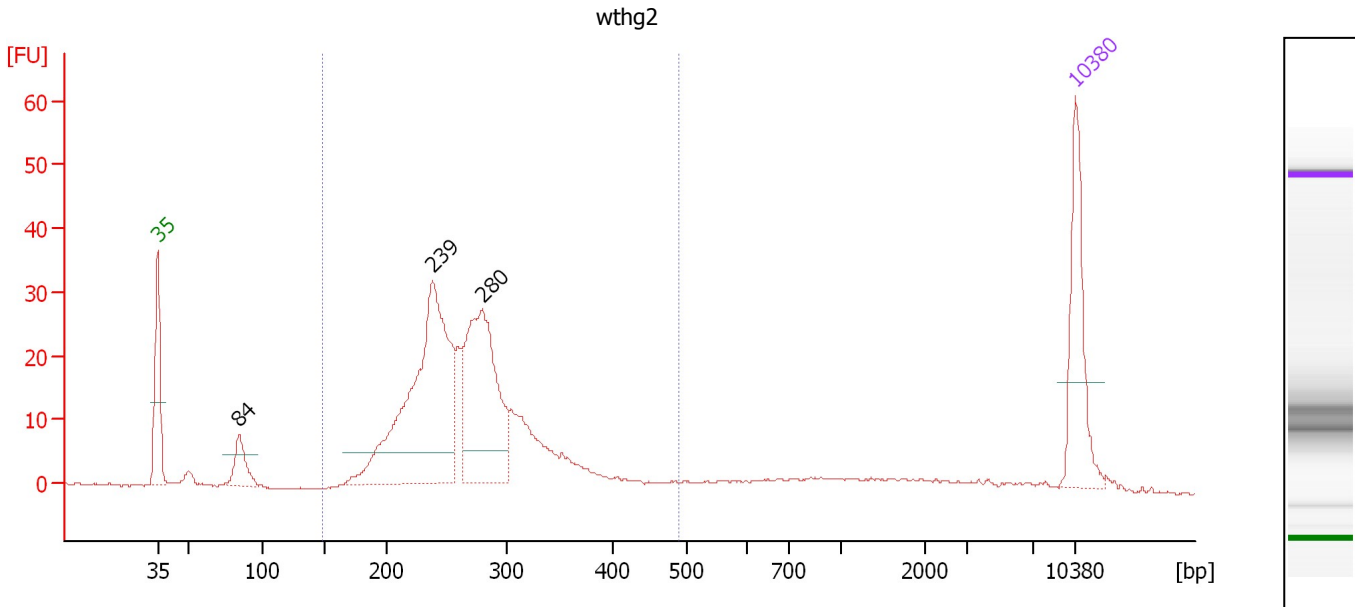
Region table for sample 8 : stz1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
155	426	258	248.9	2,302.6	380.49	83	16.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : wthg2

Number of peaks found: 3 Corr. Area 1: 365.0
 Noise: 0.1

Peak table for sample 9 : wthg2

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	84	41.24	742.2		49.23
3	239	360.14	2,286.0		64.00
4	280	221.31	1,198.9		67.75
5	10,380	75.00	10.9	Upper Marker	113.00

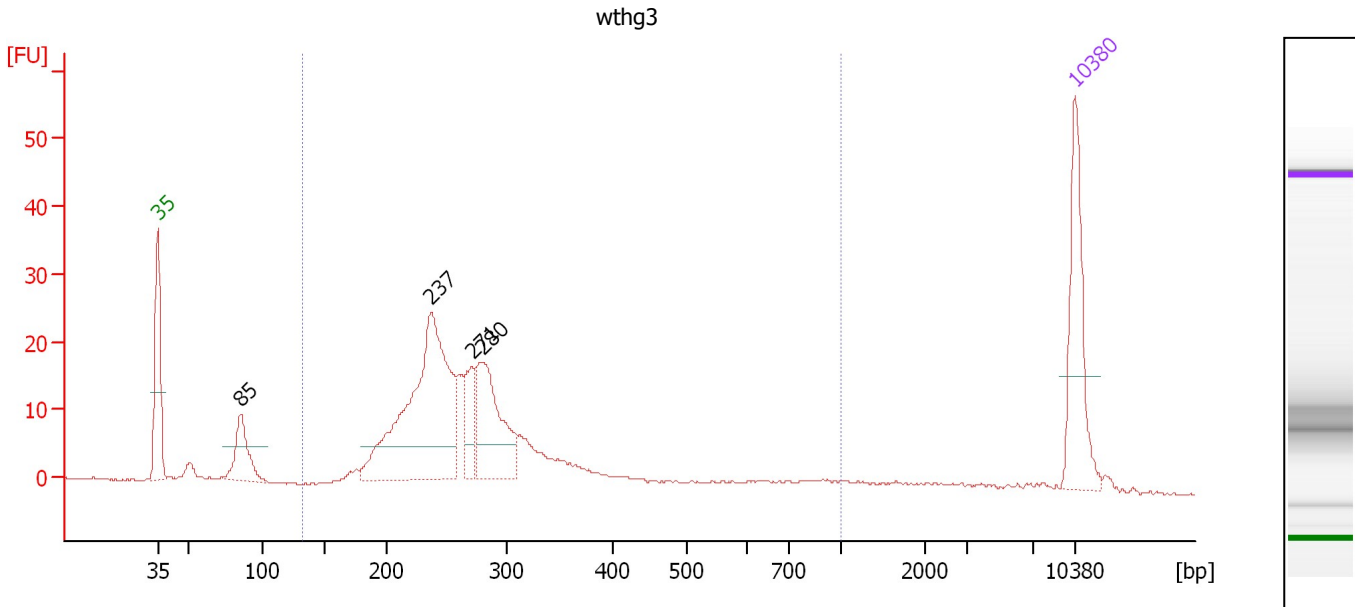
Region table for sample 9 : wthg2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
148	489	271	365.0	4,577.7	789.17	83	19.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : wthg3

Number of peaks found: 4 Corr. Area 1: 280.9
 Noise: 0.2

Peak table for sample 10 : wthg3

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	57.03	1,013.4		49.35
3	237	301.00	1,927.2		63.81
4	271	45.01	251.6		66.96
5	280	114.22	619.1		67.73
6	10,380	75.00	10.9	Upper Marker	113.00

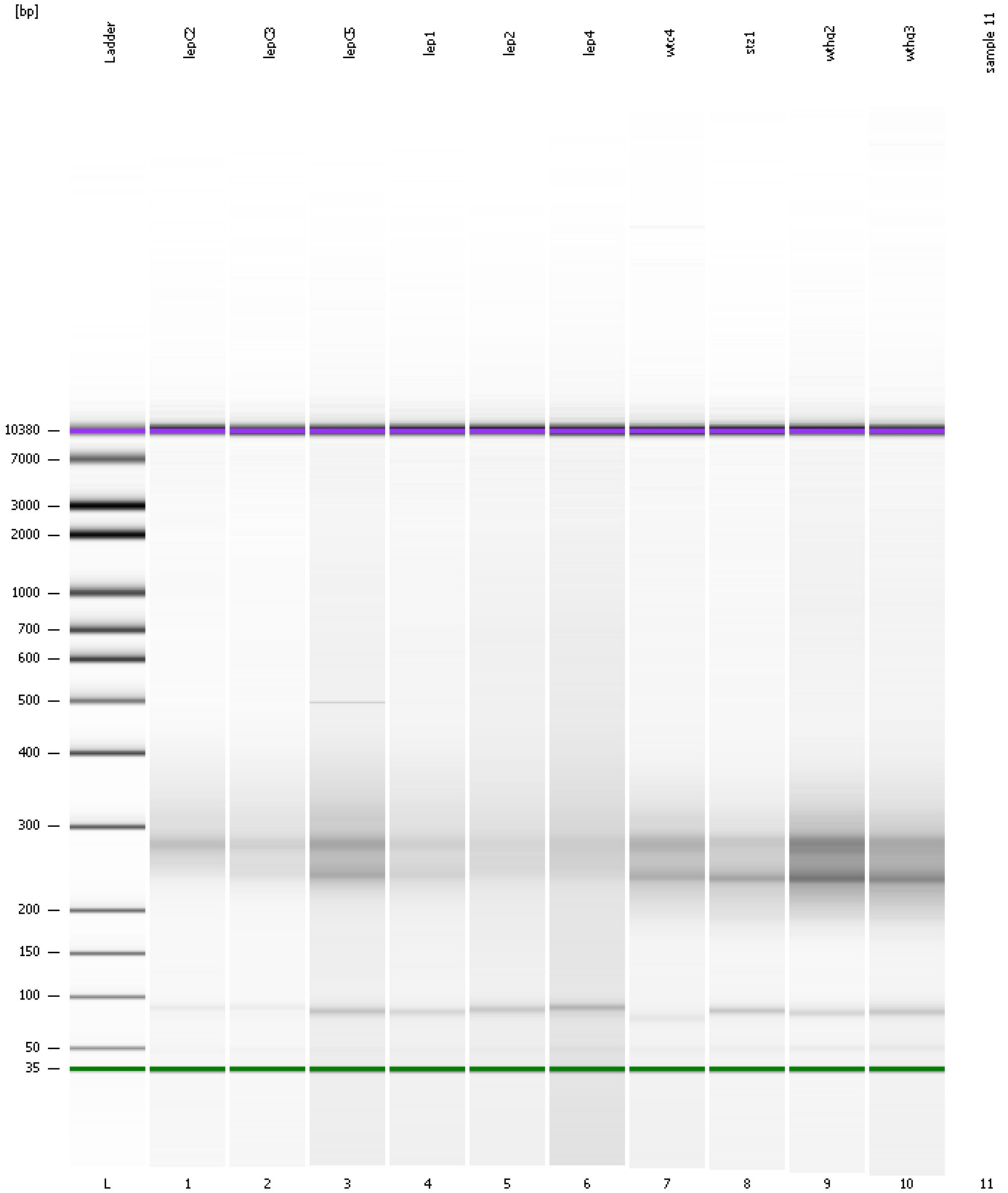
Region table for sample 10 : wthg3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
133	1,000	291	280.9	3,643.8	630.49	86	39.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
Modified: 2/8/2017 11:54:49 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
Modified: 2/8/2017 11:54:49 AM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-08\2017-02-08_002.xad

Created: 2/8/2017 11:16:08 AM
 Modified: 2/8/2017 11:54:49 AM

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		2/8/2017 11:54:32 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\2017-02-08\2017-02-08_002.xad)		Instrument	Run		2/8/2017 11:16:14 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/8/2017 11:16:14 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/8/2017 11:16:14 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/8/2017 11:16:14 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/8/2017 11:16:14 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/8/2017 11:16:14 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/8/2017 11:16:14 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1