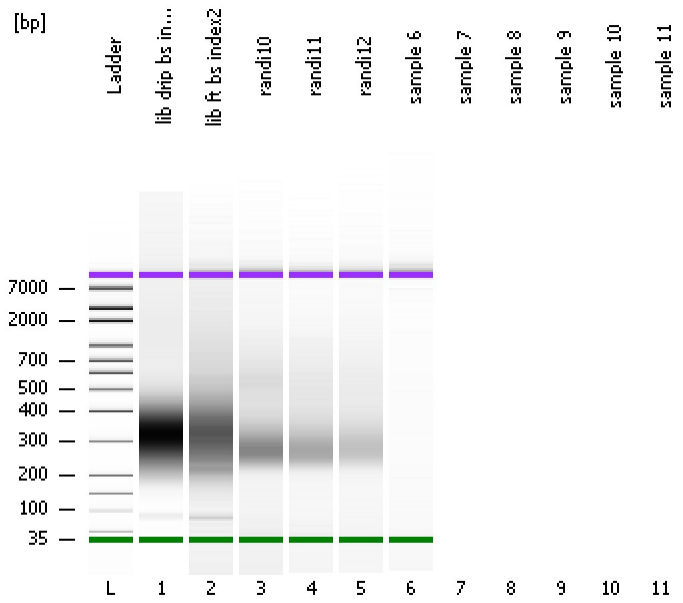
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

Electrophoresis File Run Summary



Instrument Information:

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

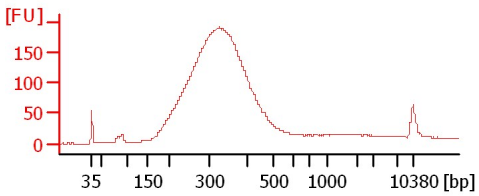
Assay Information:

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

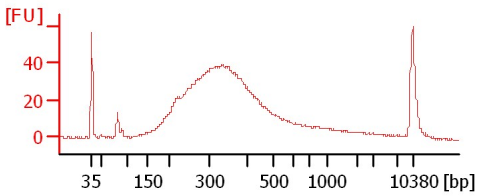
Chip Information:

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

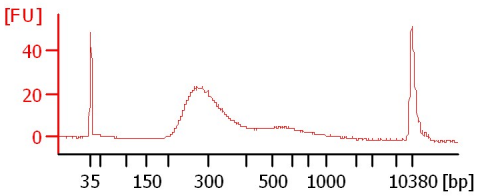
lib drip bs index1



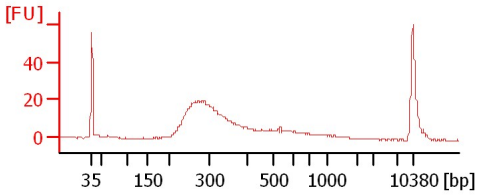
lib ft bs index2



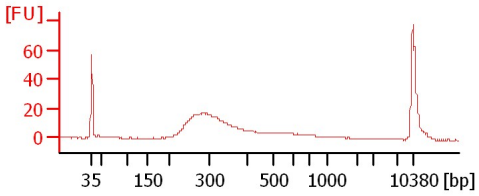
randi10



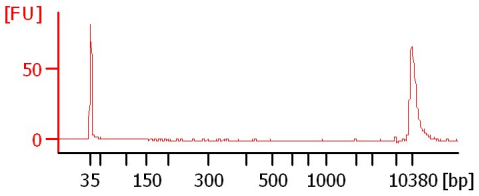
randi11



randi12



sample 6



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
lib drip bs index1		☐	✔			
lib ft bs index2		☐	✔			
randi10		☐	✔			
randi11		☐	✔			
randi12		☐	✔			
sample 6		☐	✔			
sample 7		☐				
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:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

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

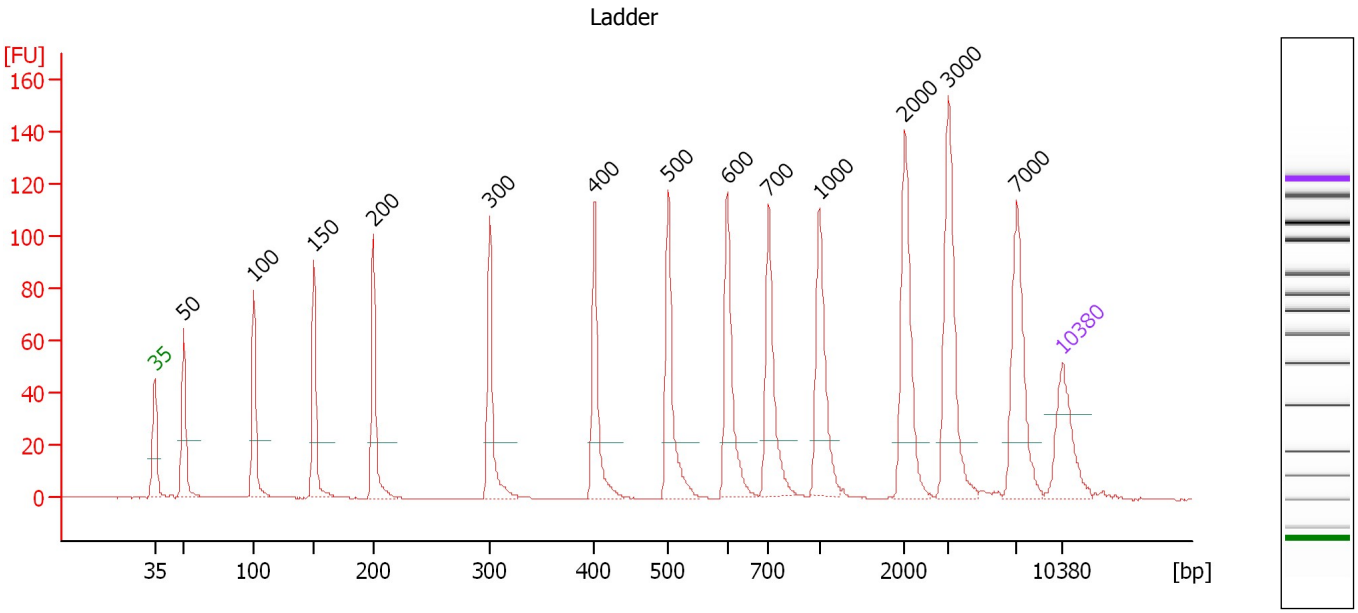
Ladder

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:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

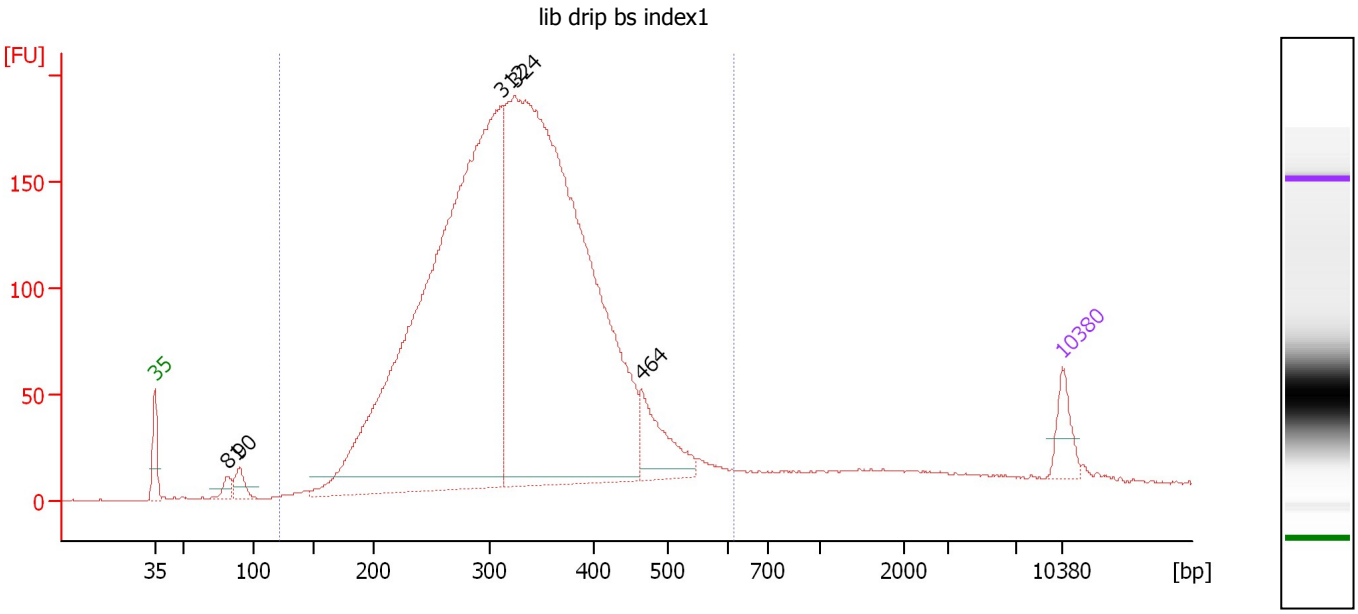
Peak table for Ladder

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	45.24
3		100	150.00	2,272.7	Ladder Peak	50.64
4		150	150.00	1,515.2	Ladder Peak	55.27
5		200	150.00	1,136.4	Ladder Peak	59.86
6		300	150.00	757.6	Ladder Peak	68.83
7		400	150.00	568.2	Ladder Peak	76.90
8		500	150.00	454.5	Ladder Peak	82.63
9		600	150.00	378.8	Ladder Peak	87.17
10		700	150.00	324.7	Ladder Peak	90.37
11		1,000	150.00	227.3	Ladder Peak	94.28
12		2,000	150.00	113.6	Ladder Peak	100.87
13		3,000	150.00	75.8	Ladder Peak	104.21
14		7,000	150.00	32.5	Ladder Peak	109.51
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : lib drip bs index1

Number of peaks found:	5	Corr. Area 1:	4,142.5
Noise:	0.3		

Peak table for sample 1 : lib drip bs index1

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	81	46.17	860.9		48.62
3	90	71.83	1,213.2		49.53
4	312	3,640.32	17,651.9		69.84
5	324	3,806.67	17,781.4		70.80
6	464	228.18	745.8		80.54
7	10,380	75.00	10.9	Upper Marker	113.00

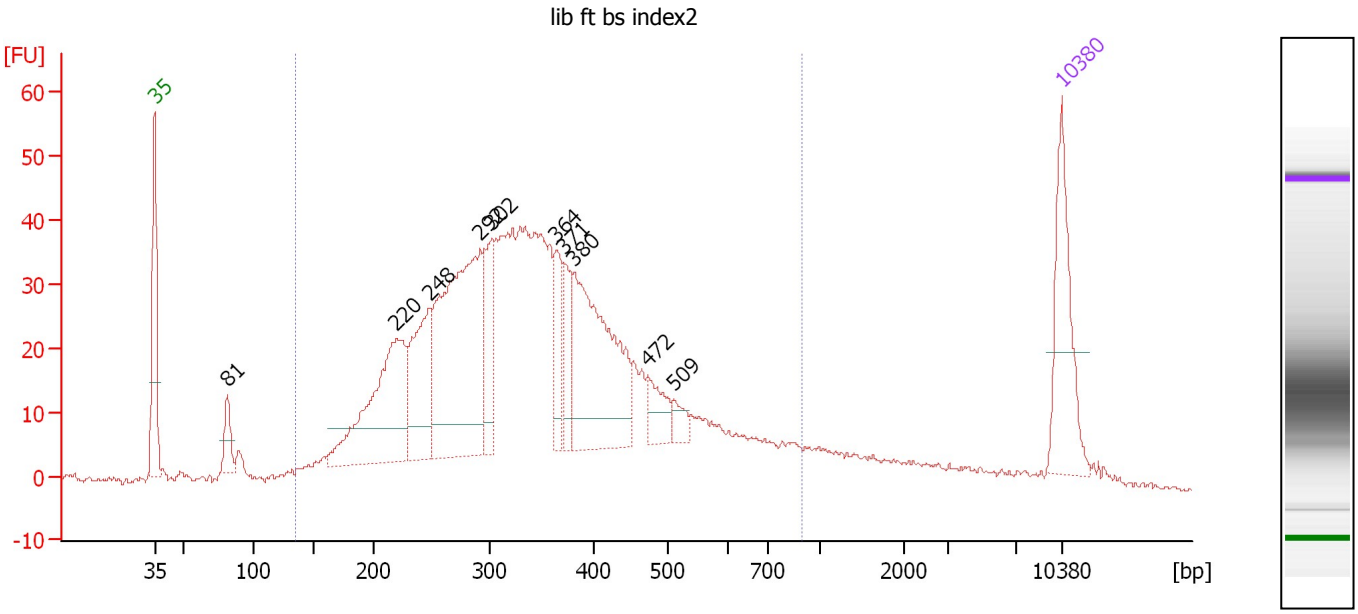
Region table for sample 1 : lib drip bs index1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
121	328	615	4,142.5	93	23.7	8,329.46	41,781.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : lib ft bs index2

Number of peaks found:	10	Corr. Area 1:	1,126.0
Noise:	0.6		

Peak table for sample 2 : lib ft bs index2

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	81	32.23	599.6		48.64
3	220	198.48	1,368.6		61.63
4	248	112.44	686.6		64.18
5	292	300.48	1,557.2		68.15
6	302	67.97	341.2		68.98
7	364	47.36	197.3		73.98
8	371	40.38	164.9		74.57
9	380	201.54	804.5		75.25
10	472	30.78	98.8		81.04
11	509	14.44	43.0		83.05
12	10,380	75.00	10.9	Upper Marker	113.00

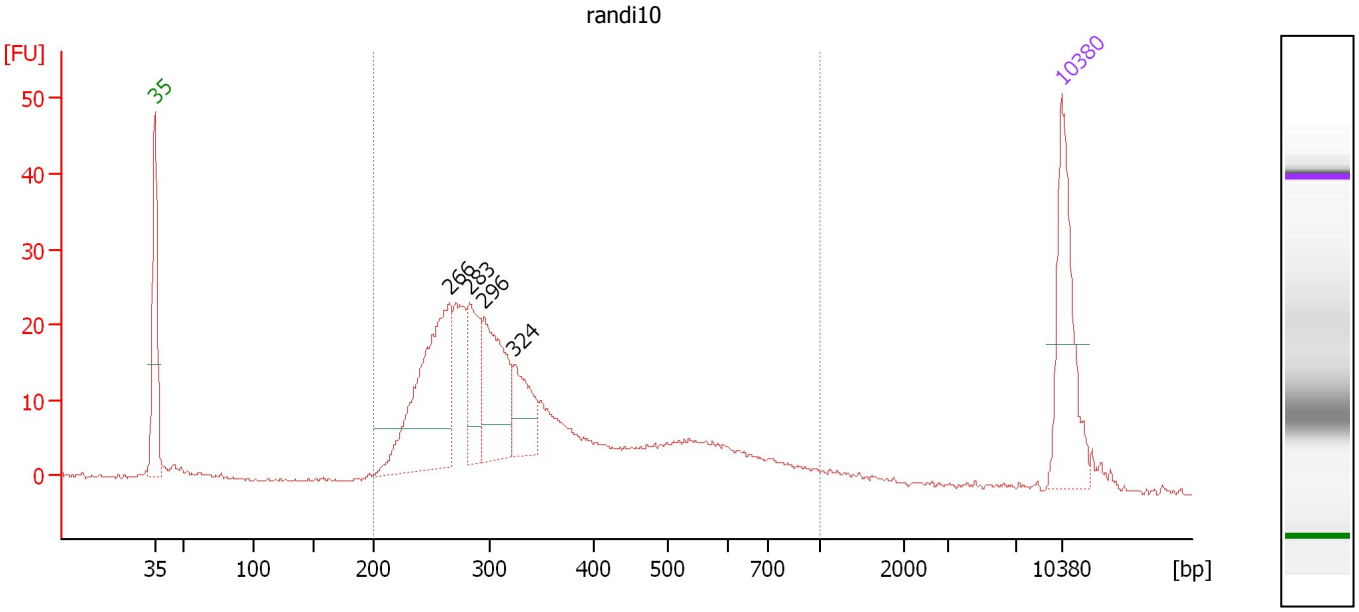
Region table for sample 2 : lib ft bs index2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
135	359	894	1,126.0	89	35.2	1,921.59	9,497.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : randi10

Number of peaks found:	4	Corr. Area 1:	442.7
Noise:	0.2		

Peak table for sample 3 : randi10

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	266	195.40	1,114.4		65.75
3	283	64.77	346.9		67.30
4	296	102.90	527.2		68.45
5	324	51.48	240.9		70.75
6	10,380	75.00	10.9	Upper Marker	113.00

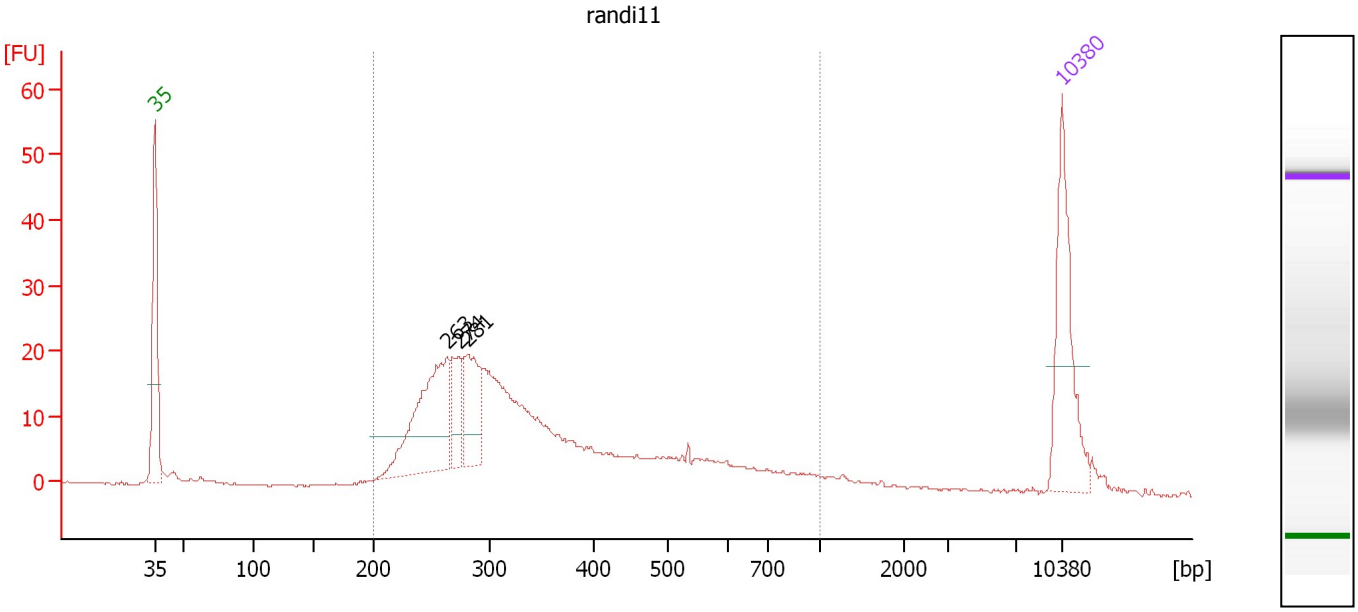
Region table for sample 3 : randi10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	367	1,000	442.7	92	39.7	808.81	3,885.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : randi11

Number of peaks found:	3	Corr. Area 1:	388.1
Noise:	0.1		

Peak table for sample 4 : randi11

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		263	145.14	834.7		65.55
3		274	36.27	200.8		66.47
4		281	59.46	320.5		67.13
5	▶	10,380	75.00	10.9	Upper Marker	113.00

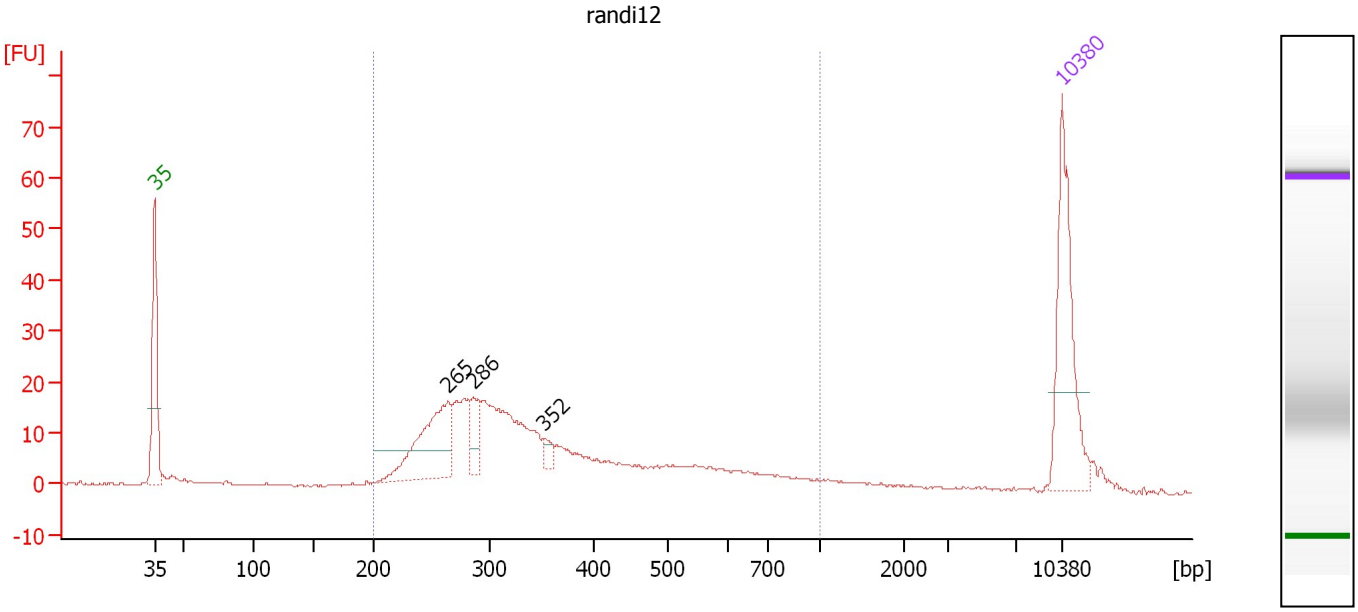
Region table for sample 4 : randi11

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	366	1,000	388.1	92	39.4	667.81	3,207.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : randi12

Number of peaks found:	3	Corr. Area 1:	360.8
Noise:	0.2		

Peak table for sample 5 : randi12

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		265	92.22	527.6		65.68
3		286	25.91	137.4		67.54
4		352	8.58	37.0		72.99
5	▶	10,380	75.00	10.9	Upper Marker	113.00

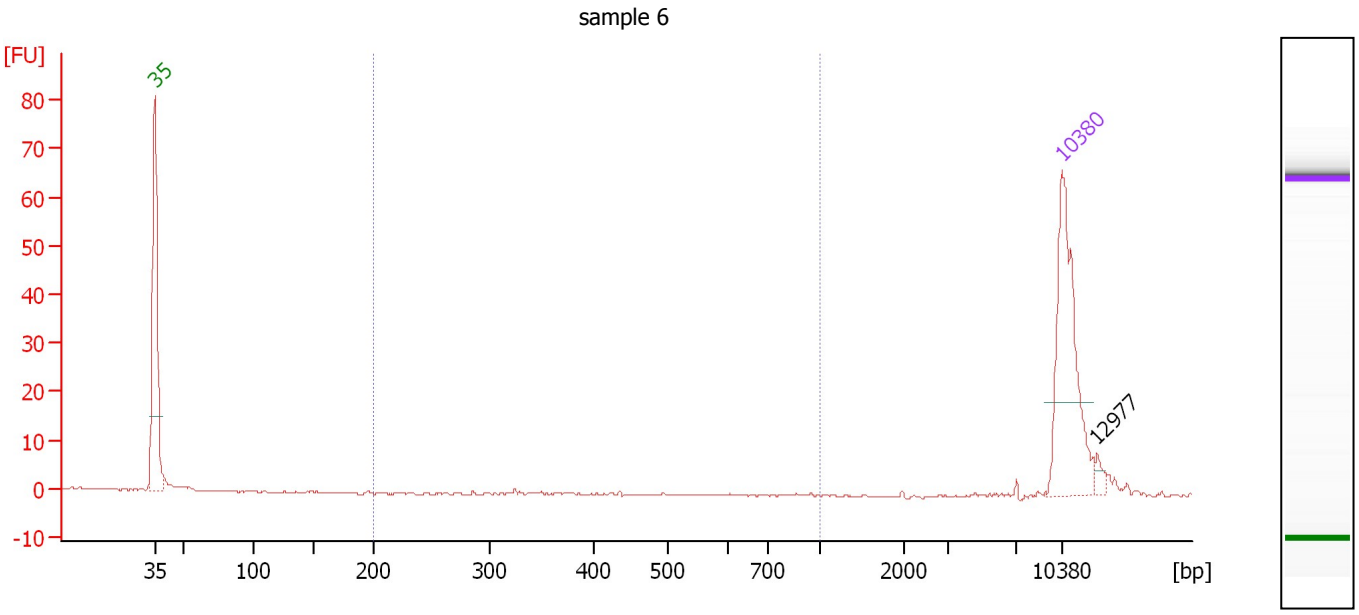
Region table for sample 5 : randi12

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	374	1,000	360.8	87	39.0	477.40	2,243.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found:	1	Corr. Area 1:	0.4
Noise:	0.2		

Peak table for sample 6 : sample 6

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
3	12,977	0.00	0.0		115.68

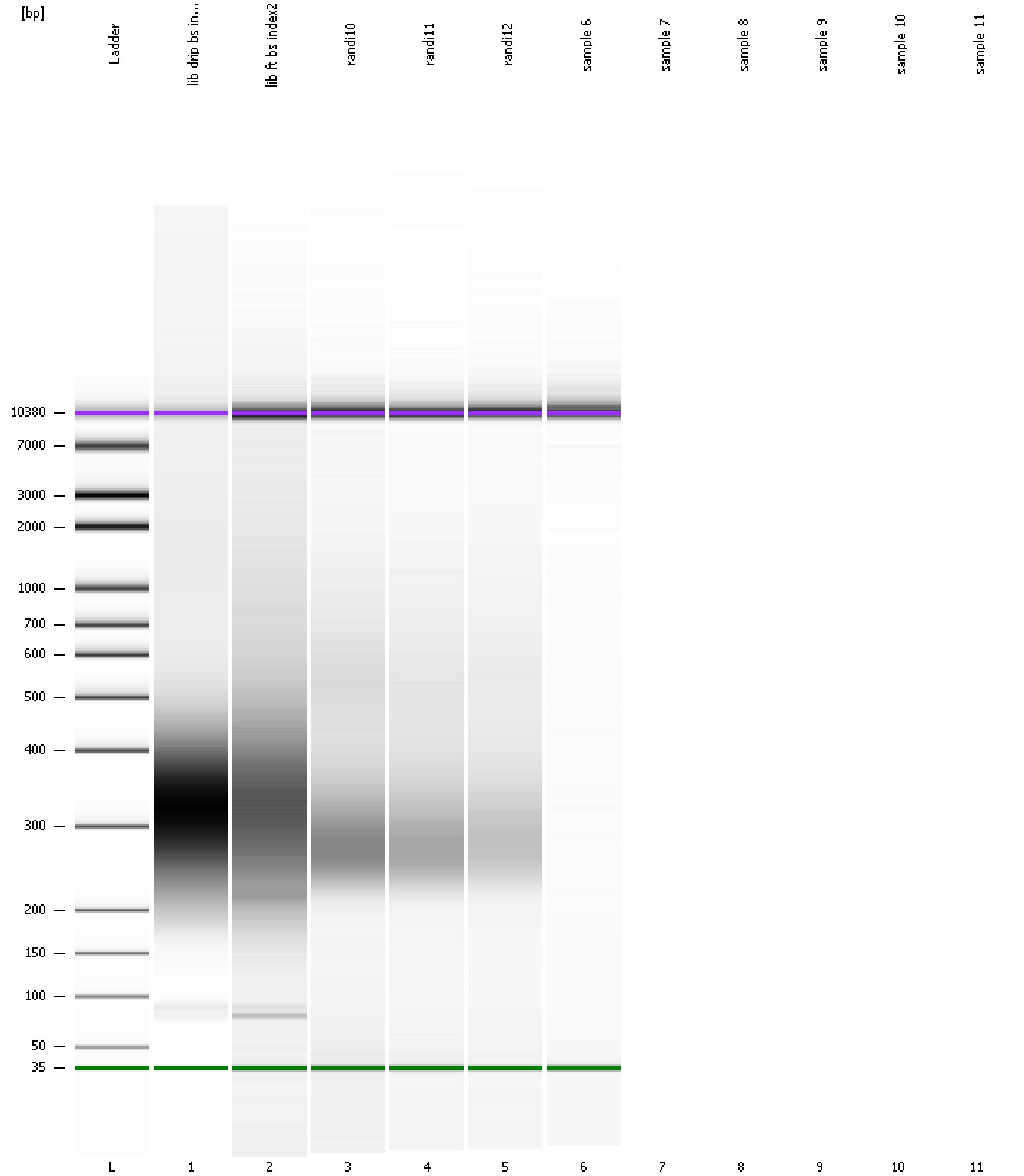
Region table for sample 6 : sample 6

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	484	1,000	0.4	2	51.0	0.46	1.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

Invalid Samples

Sample 7 has not been run, no results available.

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:\...ents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad

Created: 1/6/2015 2:15:05 PM
Modified: 1/6/2015 2:42:07 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		1/6/2015 2:42:05 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-06\2015-01-06_004.xad)		Instrument	Run		1/6/2015 2:15:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/6/2015 2:15:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/6/2015 2:15:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/6/2015 2:15:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/6/2015 2:15:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/6/2015 2:15:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/6/2015 2:15:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1