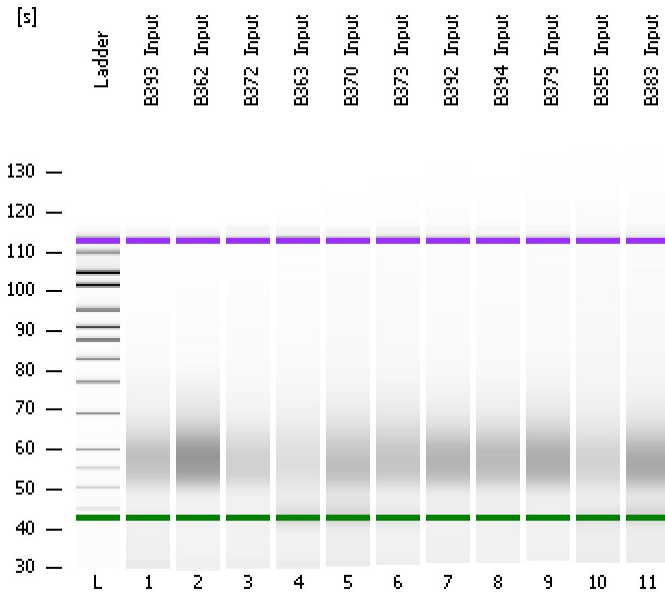


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
Modified: 6/11/2018 1:27:08 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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

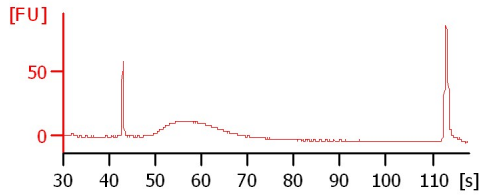
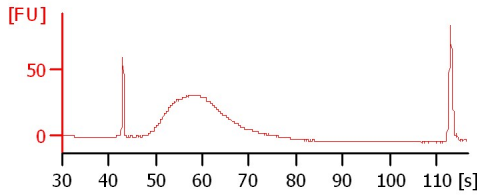
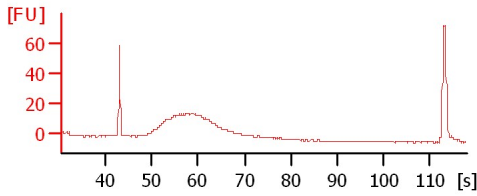
Chip Information:

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

B393_Input

B362_Input

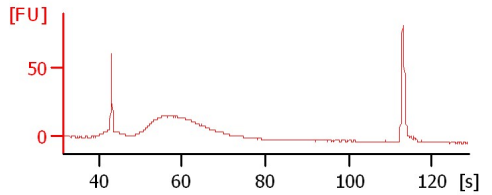
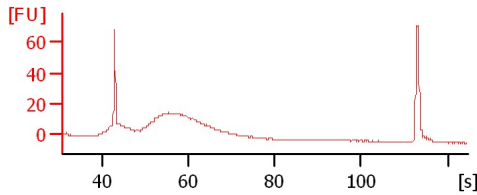
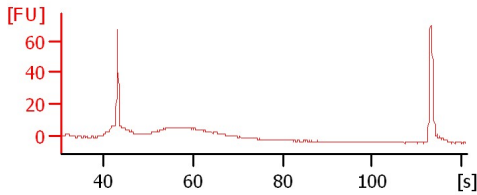
B372_Input



B363_Input

B370_Input

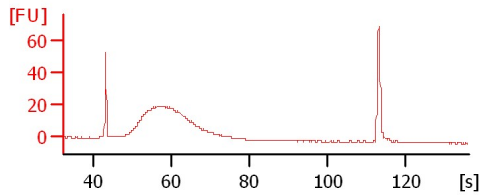
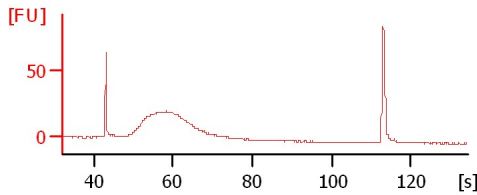
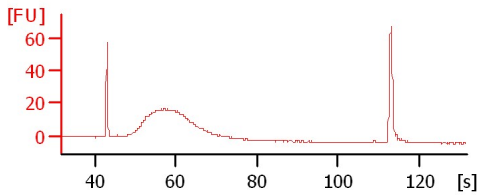
B373_Input



B392_Input

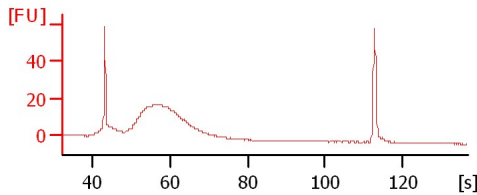
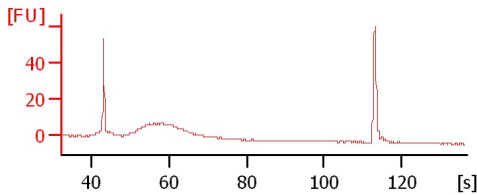
B394_Input

B379_Input



B355_Input

B383_Input



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
Modified: 6/11/2018 1:27:08 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
B393_Input		<input type="checkbox"/>	✓			
B362_Input		<input type="checkbox"/>	✓			
B372_Input		<input type="checkbox"/>	✓			
B363_Input		<input type="checkbox"/>	✓			
B370_Input		<input type="checkbox"/>	✓			
B373_Input		<input type="checkbox"/>	✓			
B392_Input		<input type="checkbox"/>	✓			
B394_Input		<input type="checkbox"/>	✓			
B379_Input		<input type="checkbox"/>	✓			
B355_Input		<input type="checkbox"/>	✓			
B383_Input		<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\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
Modified: 6/11/2018 1:27:08 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

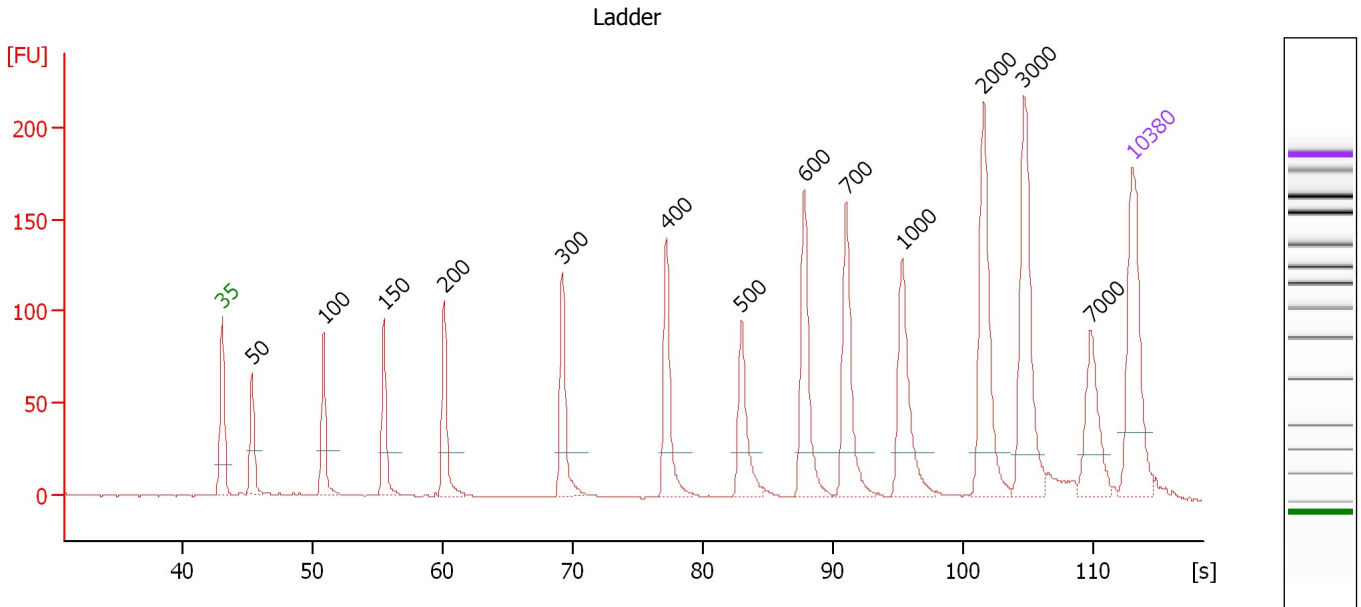
Ladder

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:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
 Modified: 6/11/2018 1:27:08 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

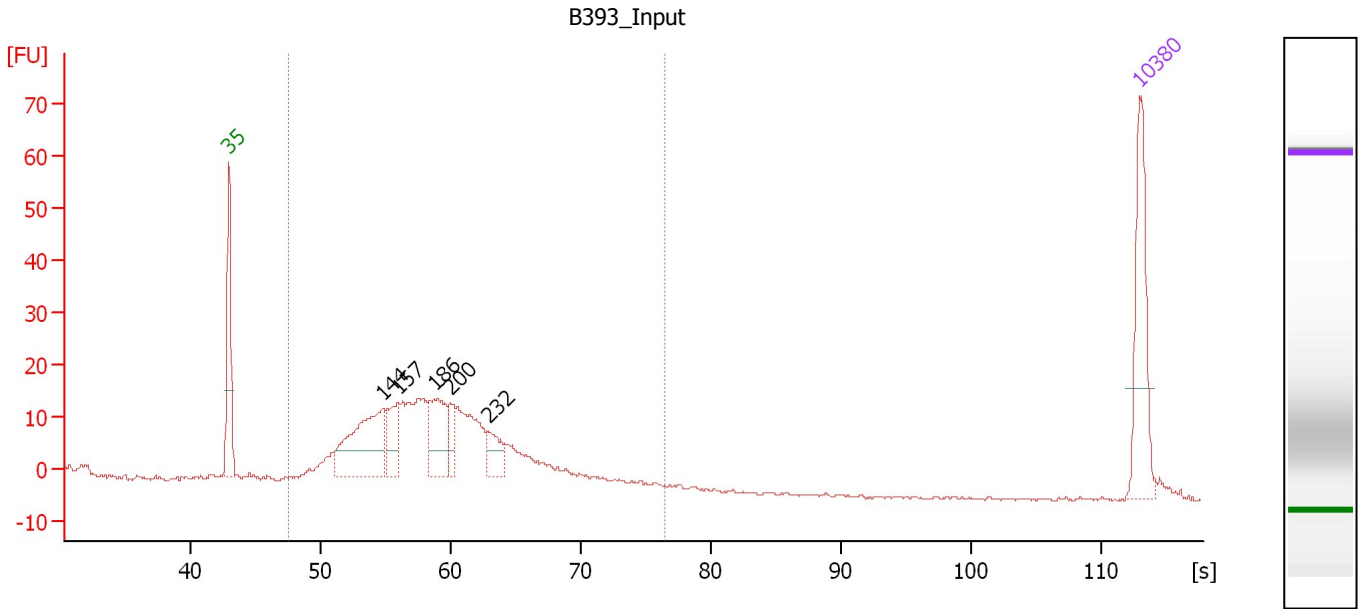
Peak table for Ladder

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	50.81
4	150	150.00	1,515.2	Ladder Peak	55.43
5	200	150.00	1,136.4	Ladder Peak	60.06
6	300	150.00	757.6	Ladder Peak	69.14
7	400	150.00	568.2	Ladder Peak	77.15
8	500	150.00	454.5	Ladder Peak	82.94
9	600	150.00	378.8	Ladder Peak	87.77
10	700	150.00	324.7	Ladder Peak	90.99
11	1,000	150.00	227.3	Ladder Peak	95.28
12	2,000	150.00	113.6	Ladder Peak	101.56
13	3,000	150.00	75.8	Ladder Peak	104.66
14	7,000	150.00	32.5	Ladder Peak	109.82
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
 Modified: 6/11/2018 1:27:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : B393 Input

Number of peaks found: 5 Corr. Area 1: 355.9
 Noise: 0.3

Peak table for sample 1 : B393 Input

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	144	163.46	1,719.4		54.88
3	157	53.01	513.1		56.03
4	186	82.78	674.5		58.76
5	200	26.55	201.4		60.04
6	232	33.15	216.5		62.96
7	10,380	75.00	10.9	Upper Marker	113.00

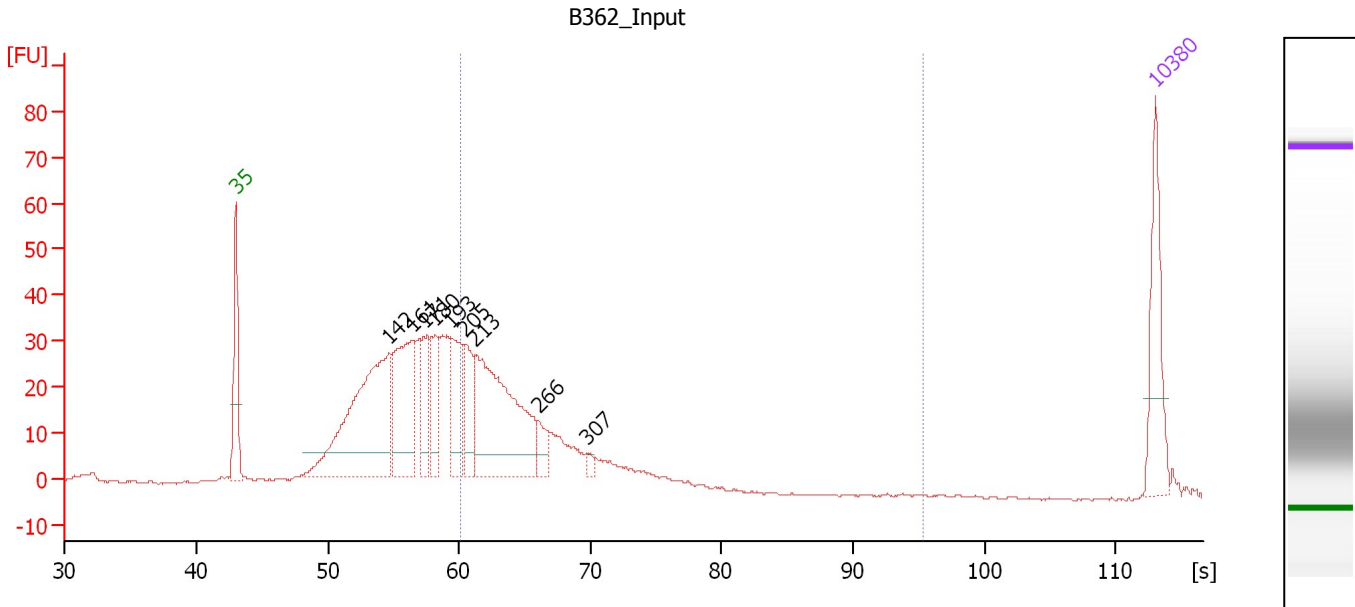
Region table for sample 1 : B393 Input

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
47.56	76.57	190	733.20	355.9	6,585.4	98	29.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
 Modified: 6/11/2018 1:27:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : B362 Input

Number of peaks found: 9 Corr. Area 1: 310.1
 Noise: 0.3

Peak table for sample 2 : B362 Input

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	142	391.24	4,186.5		54.65
3	161	201.05	1,891.6		56.45
4	171	73.95	656.1		57.35
5	180	62.53	526.2		58.21
6	193	102.41	804.5		59.40
7	205	68.15	504.0		60.50
8	213	315.02	2,241.0		61.24
9	266	29.99	171.1		66.02
10	307	8.73	43.0		69.74
11	10,380	75.00	10.9	Upper Marker	113.00

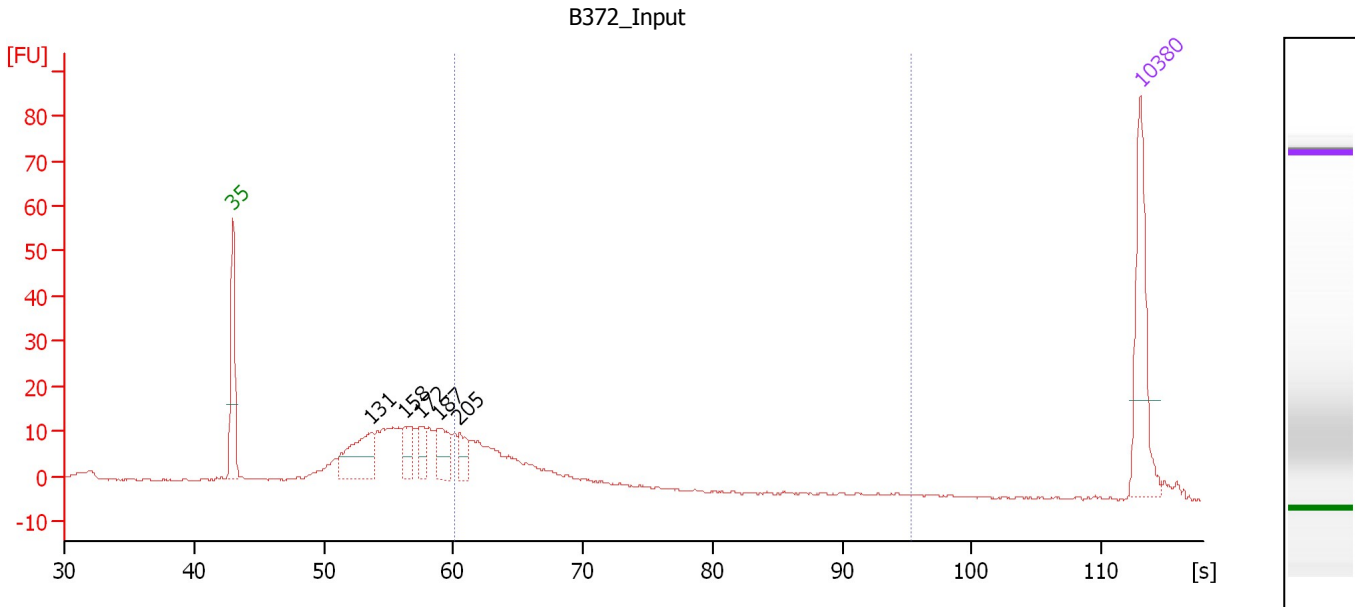
Region table for sample 2 : B362 Input

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
60.06	95.28	251	596.23	310.1	3,675.4	39	17.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
 Modified: 6/11/2018 1:27:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : B372 Input

Number of peaks found: 5 Corr. Area 1: 99.8
 Noise: 0.3

Peak table for sample 3 : B372 Input

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	131	88.92	1,027.4		53.69
3	158	35.17	336.3		56.21
4	172	27.07	238.6		57.46
5	187	40.87	331.7		58.82
6	205	26.16	193.7		60.48
7	10,380	75.00	10.9	Upper Marker	113.00

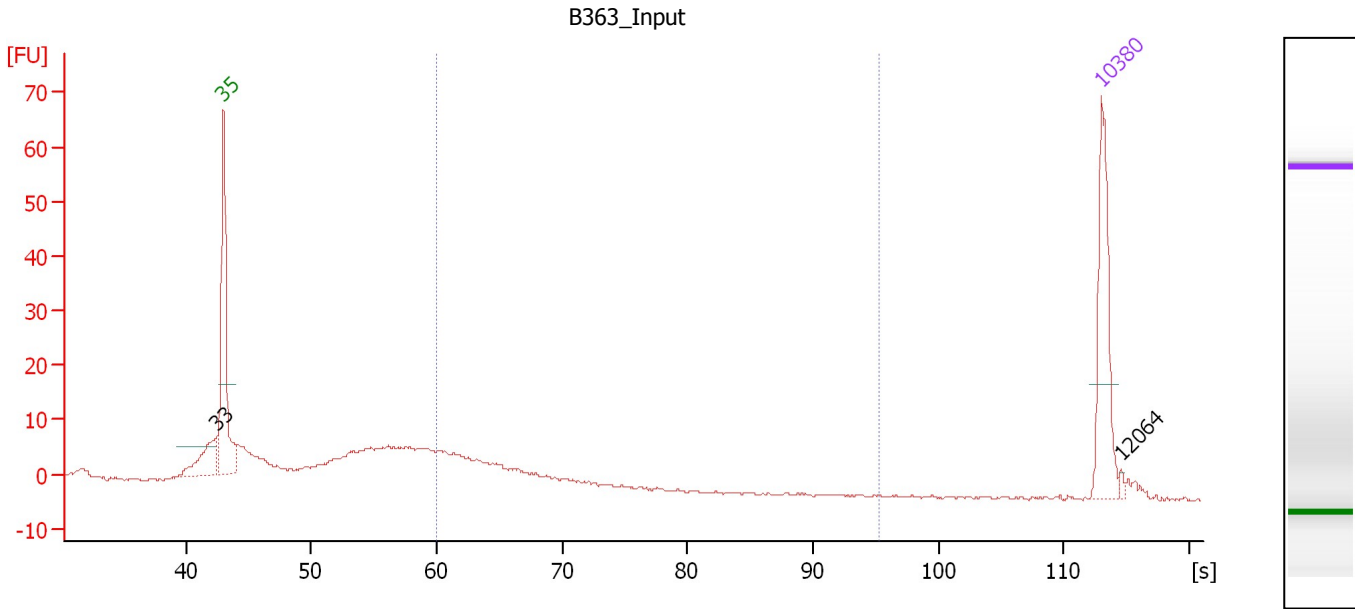
Region table for sample 3 : B372 Input

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.06	95.28	244	171.56	99.8	1,079.1	33	15.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
 Modified: 6/11/2018 1:27:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : B363 Input

Number of peaks found: 2 Corr. Area 1: 58.4
 Noise: 0.3

Peak table for sample 4 : B363 Input

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.44
2	35	125.00	5,411.3	Lower Marker	43.00
3	10,380	75.00	10.9	Upper Marker	113.00
4	12,064	0.00	0.0		114.58

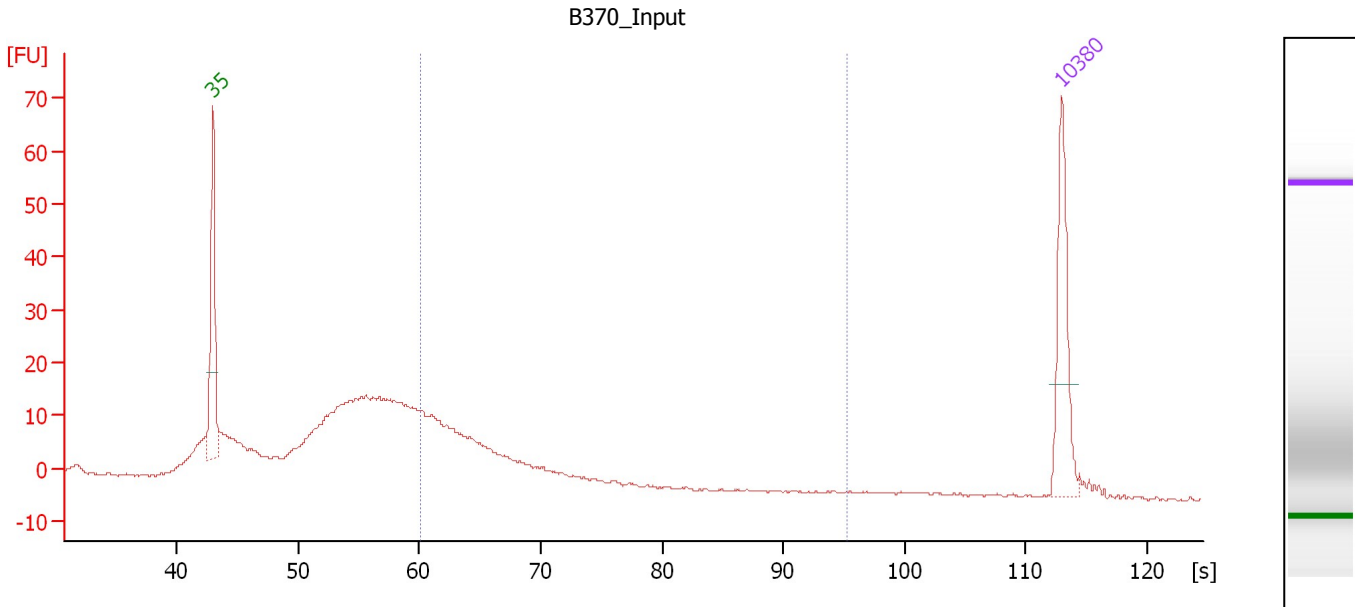
Region table for sample 4 : B363 Input

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.06	95.28	247	117.65	58.4	731.1	25	14.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
 Modified: 6/11/2018 1:27:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : B370 Input

Number of peaks found: 0 Corr. Area 1: 119.1
 Noise: 0.3

Peak table for sample 5 : B370 Input

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

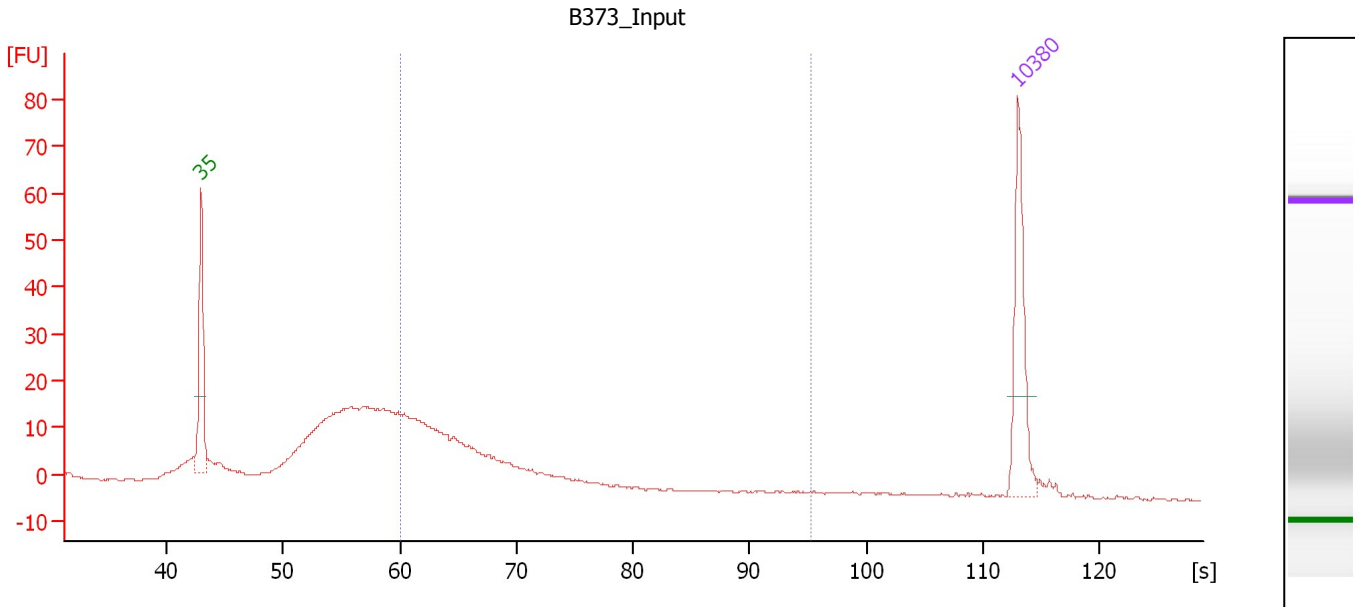
Region table for sample 5 : B370 Input

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.06	95.28	247	238.68	119.1	1,484.9	27	15.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
 Modified: 6/11/2018 1:27:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : B373 Input

Number of peaks found: 0 Corr. Area 1: 172.6
 Noise: 0.2

Peak table for sample 6 : B373 Input

Pea k	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

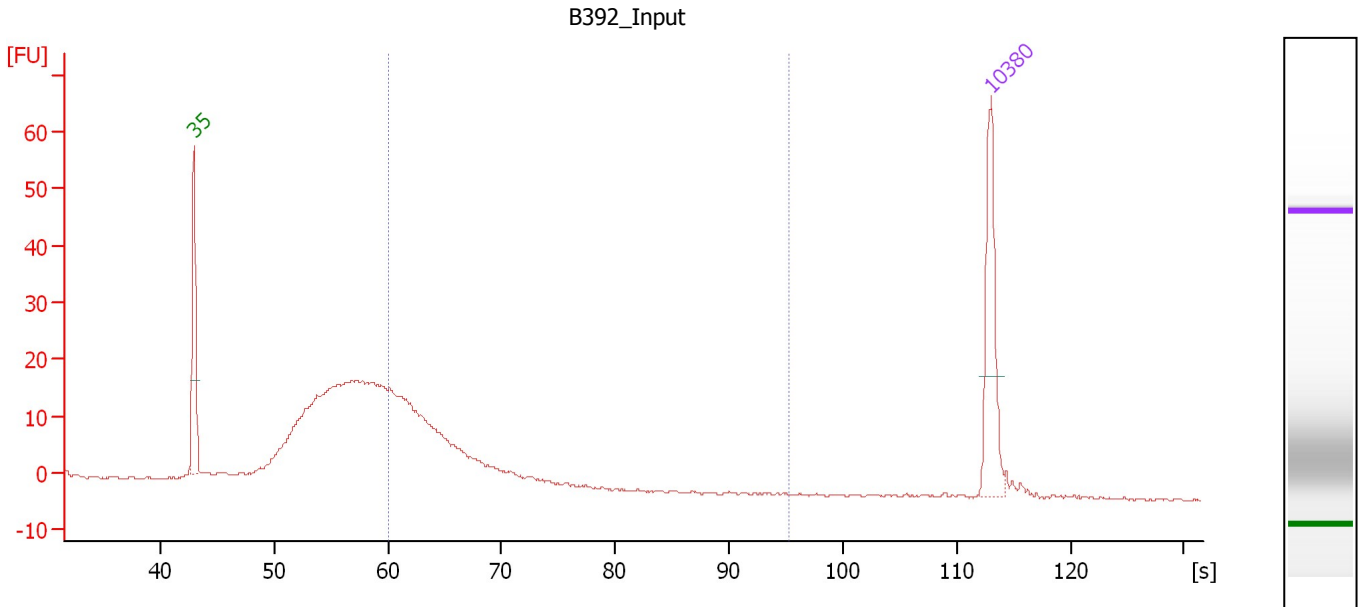
Region table for sample 6 : B373 Input

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.06	95.28	259	309.17	172.6	1,860.6	37	18.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
 Modified: 6/11/2018 1:27:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : B392_Input

Number of peaks found: 0 Corr. Area 1: 149.4
 Noise: 0.2

Peak table for sample 7 : B392_Input

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

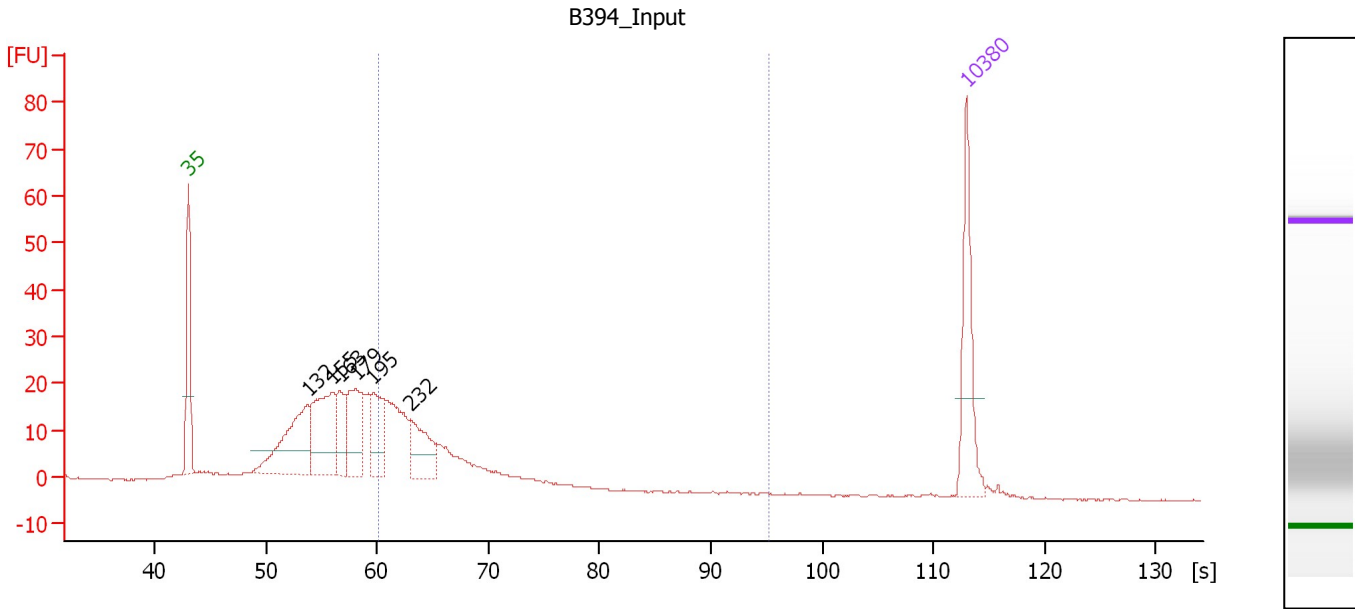
Region table for sample 7 : B392_Input

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.06	95.28	246	319.81	149.4	2,001.0	35	15.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
 Modified: 6/11/2018 1:27:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : B394 Input

Number of peaks found: 6 Corr. Area 1: 185.9
 Noise: 0.2

Peak table for sample 8 : B394 Input

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	132	163.84	1,886.9		53.72
3	155	153.86	1,503.5		55.90
4	163	53.61	498.6		56.62
5	179	91.34	775.1		58.07
6	195	76.28	591.9		59.62
7	232	79.38	517.5		63.00
8	10,380	75.00	10.9	Upper Marker	113.00

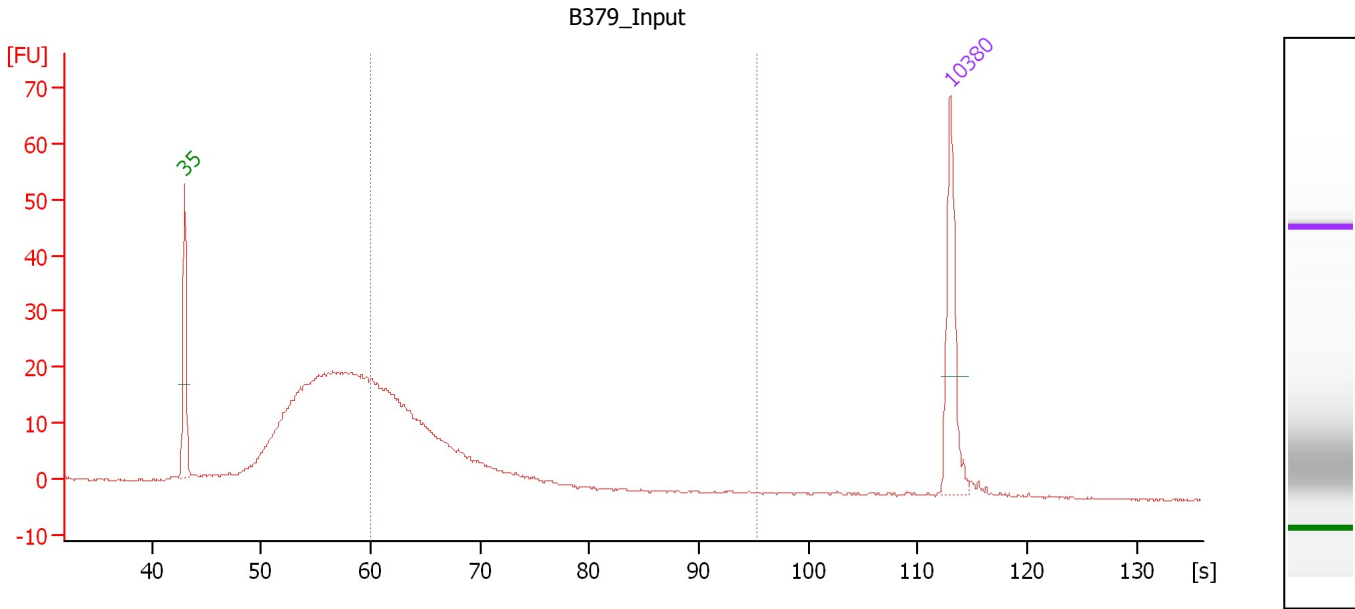
Region table for sample 8 : B394 Input

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.06	95.28	253	359.12	185.9	2,210.3	36	18.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
 Modified: 6/11/2018 1:27:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : B379 Input

Number of peaks found: 0 Corr. Area 1: 201.0
 Noise: 0.2

Peak table for sample 9 : B379 Input

Pea k	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

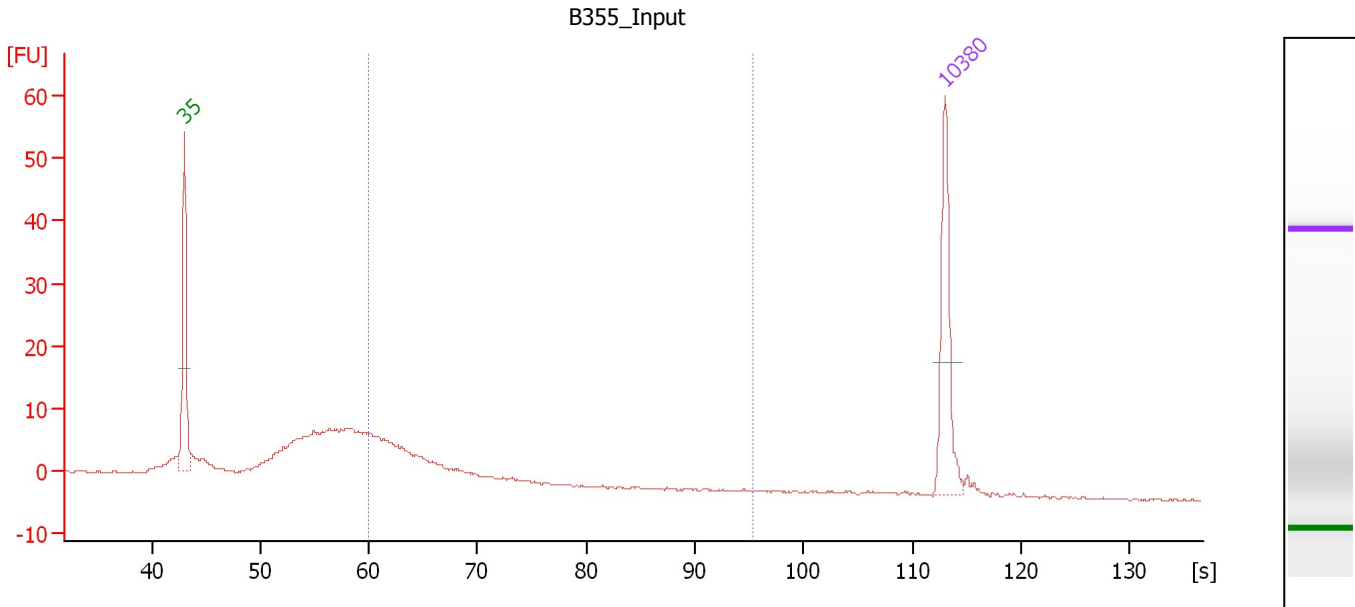
Region table for sample 9 : B379 Input

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.06	95.28	257	436.50	201.0	2,652.4	37	19.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
 Modified: 6/11/2018 1:27:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : B355 Input

Number of peaks found: 0 Corr. Area 1: 64.7
 Noise: 0.2

Peak table for sample 10 : B355 Input

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

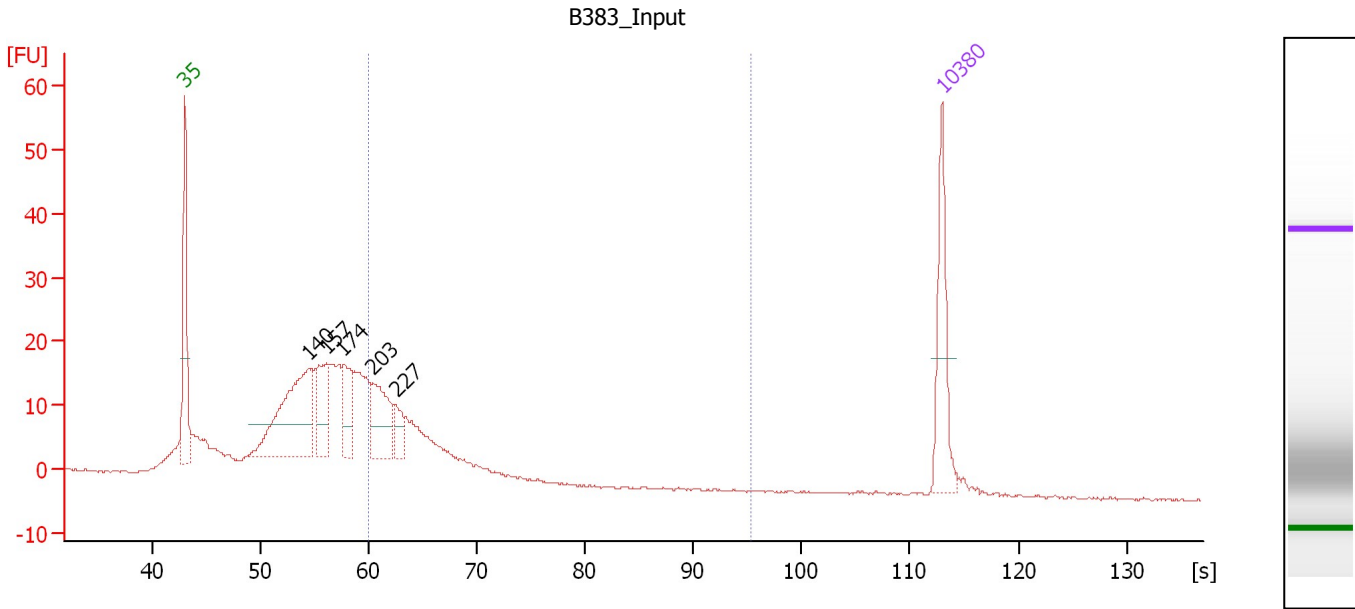
Region table for sample 10 : B355 Input

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.06	95.28	247	160.37	64.7	1,002.0	30	15.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
 Modified: 6/11/2018 1:27:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : B383 Input

Number of peaks found: 5 Corr. Area 1: 132.1
 Noise: 0.2

Peak table for sample 11 : B383 Input

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	140	241.84	2,616.5		54.51
3	157	90.74	874.6		56.10
4	174	70.09	610.9		57.64
5	203	98.40	733.1		60.36
6	227	30.98	206.4		62.55
7	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : B383 Input

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.06	95.28	246	347.45	132.1	2,174.5	28	15.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-11\2018-06-11_001.xad

Created: 6/11/2018 12:45:50 PM
Modified: 6/11/2018 1:27:08 PM

Gel Image

