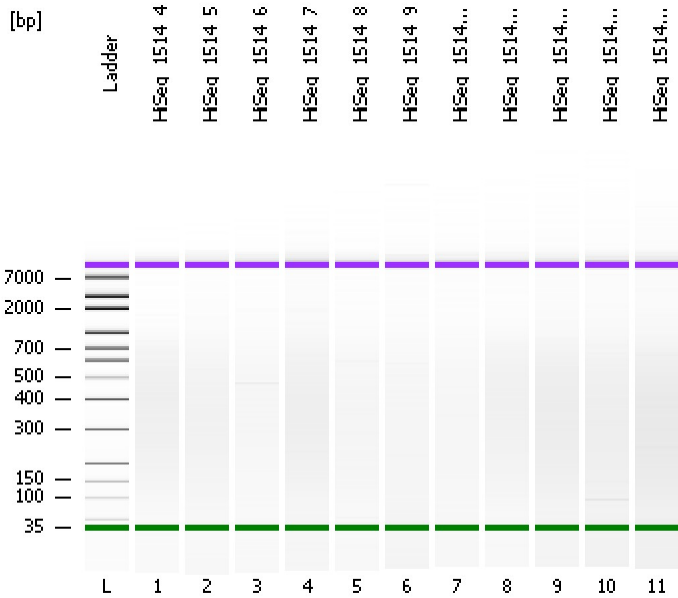


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
Modified: 11/5/2018 11:01:52 AM

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

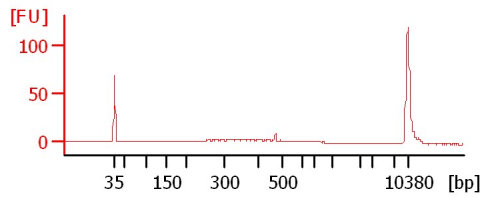
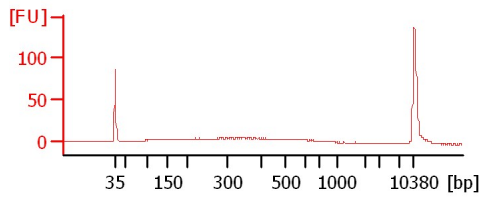
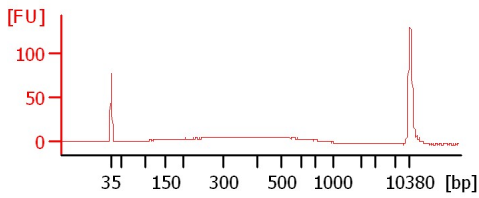
Chip Information:

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

HiSeq_1514_4

HiSeq_1514_5

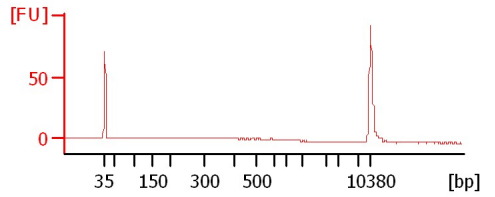
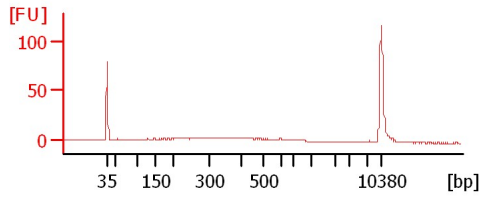
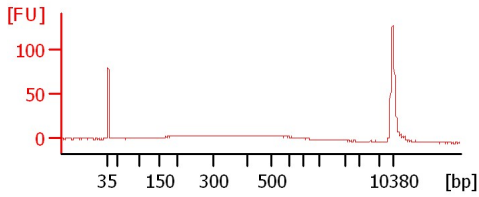
HiSeq_1514_6



HiSeq_1514_7

HiSeq_1514_8

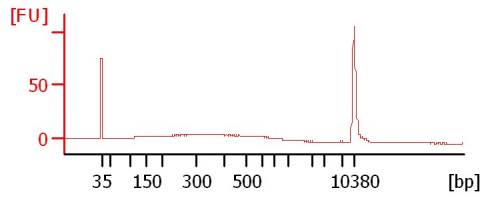
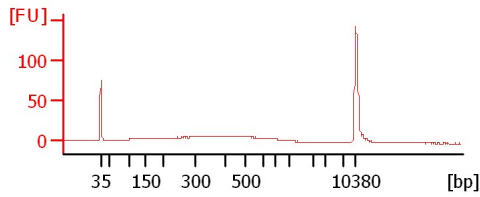
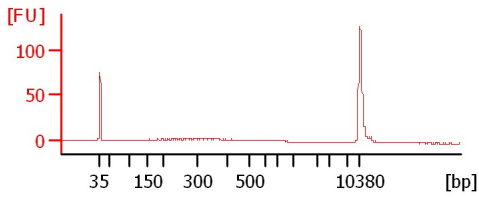
HiSeq_1514_9



HiSeq_1514_10

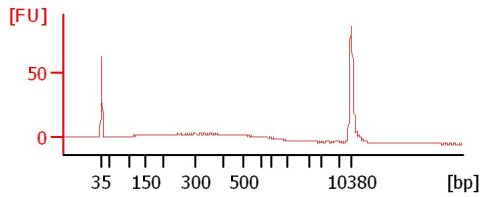
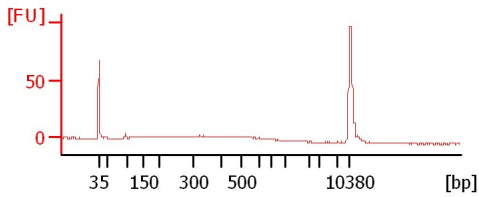
HiSeq_1514_11

HiSeq_1514_12



HiSeq_1514_13

HiSeq_1514_14



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
 Modified: 11/5/2018 11:01:52 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HiSeq_1514_4		<input type="checkbox"/>	✓			
HiSeq_1514_5		<input type="checkbox"/>	✓			
HiSeq_1514_6		<input type="checkbox"/>	✓			
HiSeq_1514_7		<input type="checkbox"/>	✓			
HiSeq_1514_8		<input type="checkbox"/>	✓			
HiSeq_1514_9		<input type="checkbox"/>	✓			
HiSeq_1514_10		<input type="checkbox"/>	✓			
HiSeq_1514_11		<input type="checkbox"/>	✓			
HiSeq_1514_12		<input type="checkbox"/>	✓			
HiSeq_1514_13		<input type="checkbox"/>	✓			
HiSeq_1514_14		<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\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
Modified: 11/5/2018 11:01:52 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

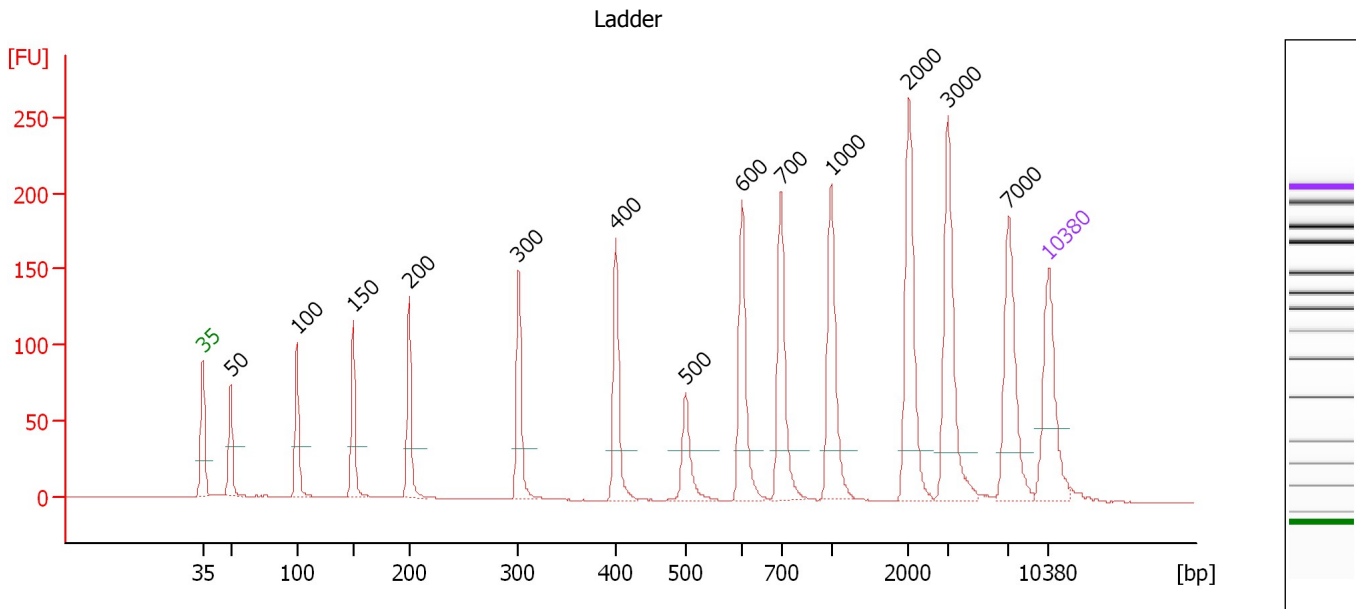
Ladder

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\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

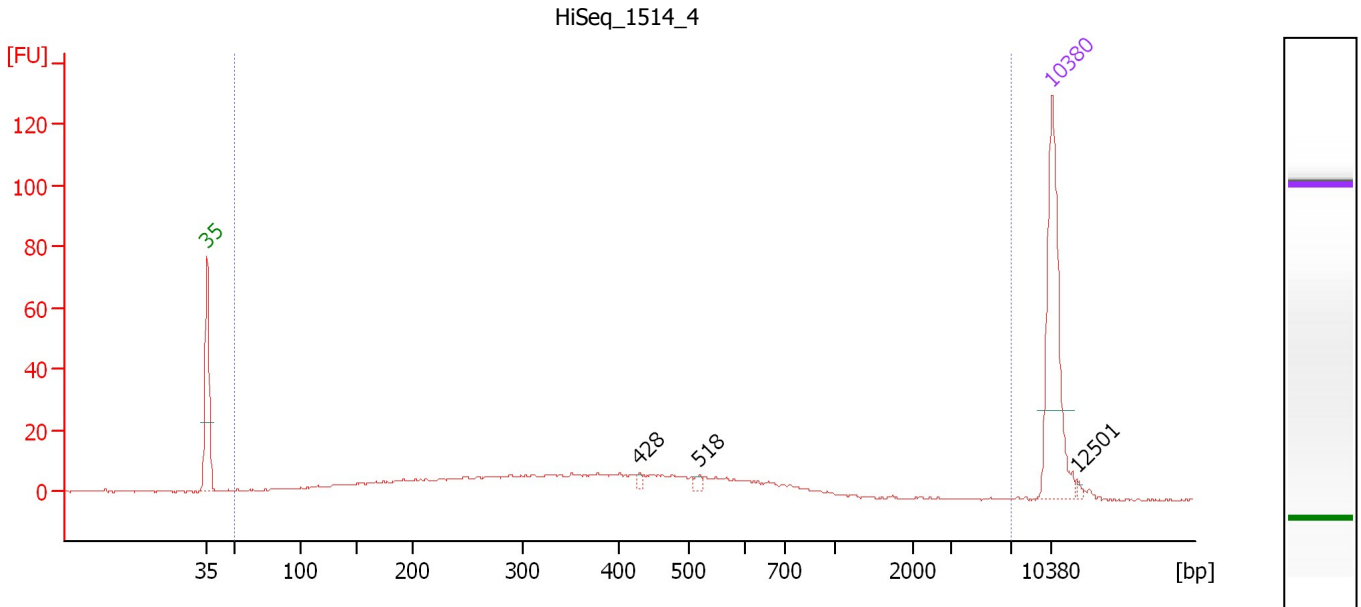
Peak table for Ladder

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	45.30
3	100	150.00	2,272.7	Ladder Peak	50.77
4	150	150.00	1,515.2	Ladder Peak	55.45
5	200	150.00	1,136.4	Ladder Peak	60.08
6	300	150.00	757.6	Ladder Peak	69.13
7	400	150.00	568.2	Ladder Peak	77.16
8	500	150.00	454.5	Ladder Peak	82.94
9	600	150.00	378.8	Ladder Peak	87.62
10	700	150.00	324.7	Ladder Peak	90.84
11	1,000	150.00	227.3	Ladder Peak	94.99
12	2,000	150.00	113.6	Ladder Peak	101.44
13	3,000	150.00	75.8	Ladder Peak	104.66
14	7,000	150.00	32.5	Ladder Peak	109.69
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : HiSeq_1514_4

Number of peaks found: 3 Corr. Area 1: 328.3
 Noise: 0.3

Peak table for sample 1 : HiSeq_1514_4

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	428	3.09	10.9		78.80
3	518	3.59	10.5		83.79
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,501	0.00	0.0		115.08

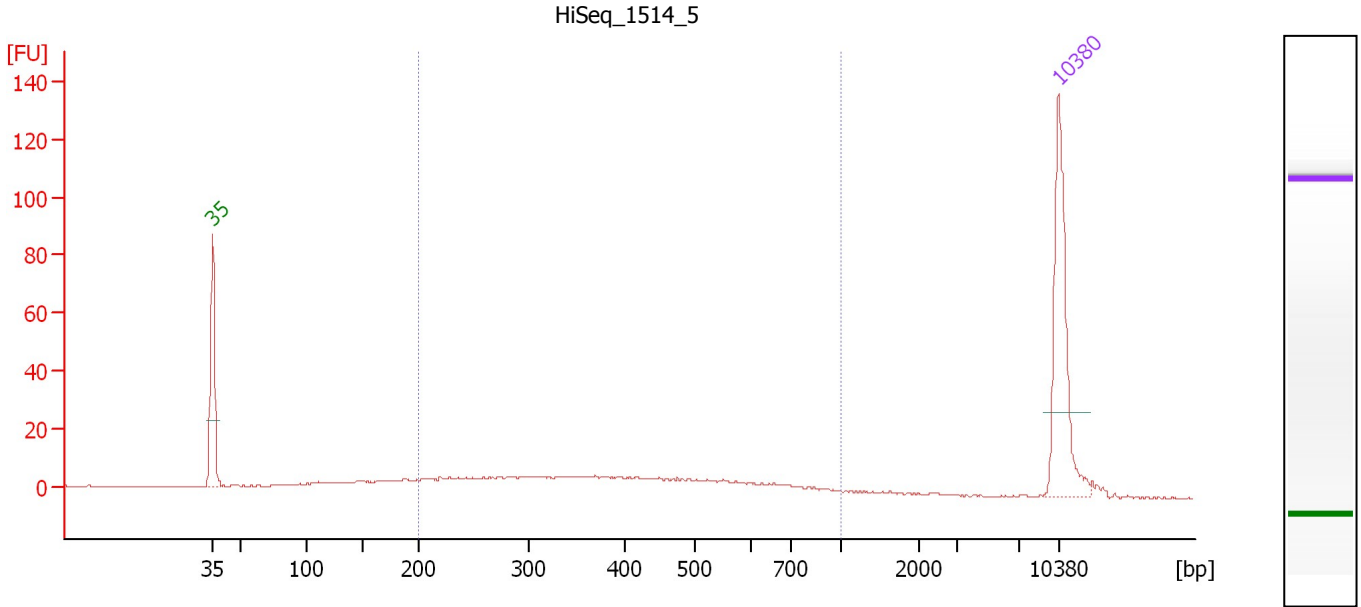
Region table for sample 1 : HiSeq_1514_4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
49	6,921	385	292.26	328.3	1,803.8	96	52.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
 Modified: 11/5/2018 11:01:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HiSeq_1514_5

Number of peaks found: 0 Corr. Area 1: 196.4
 Noise: 0.2

Peak table for sample 2 : HiSeq_1514_5

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

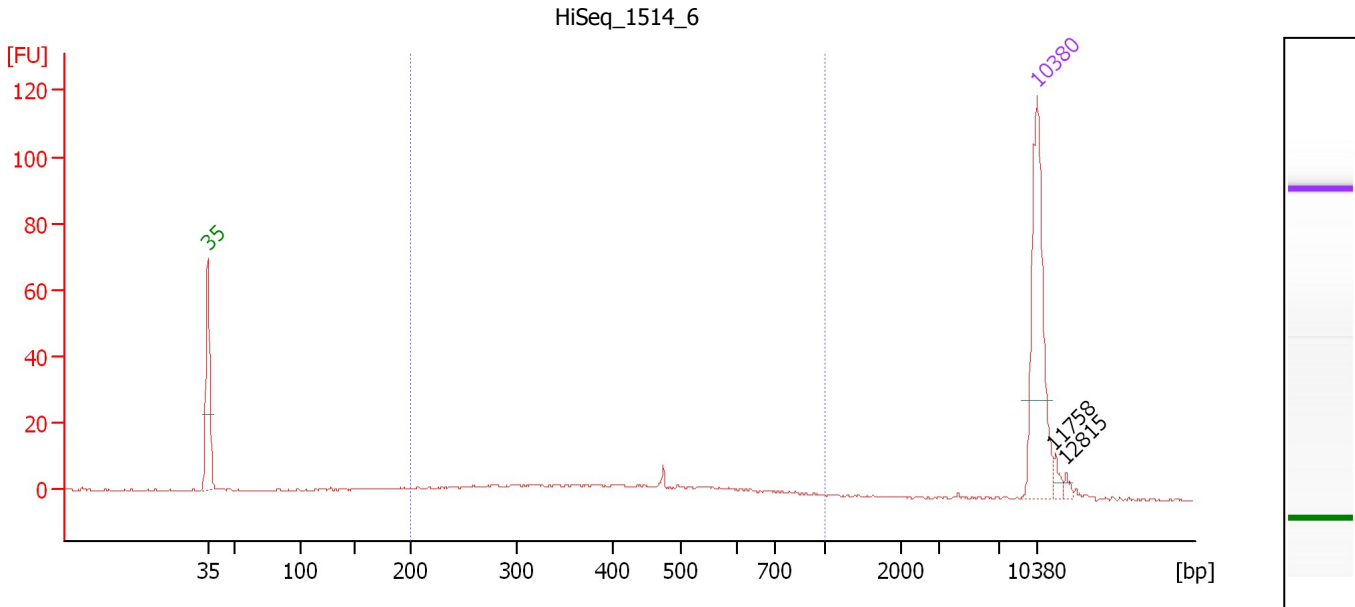
Region table for sample 2 : HiSeq_1514_5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	416	157.06	196.4	691.4	72	38.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : HiSeq_1514_6

Number of peaks found: 2 Corr. Area 1: 109.2
 Noise: 0.3

Peak table for sample 3 : HiSeq_1514_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	11,758	0.00	0.0		114.35
4	12,815	0.00	0.0		115.38

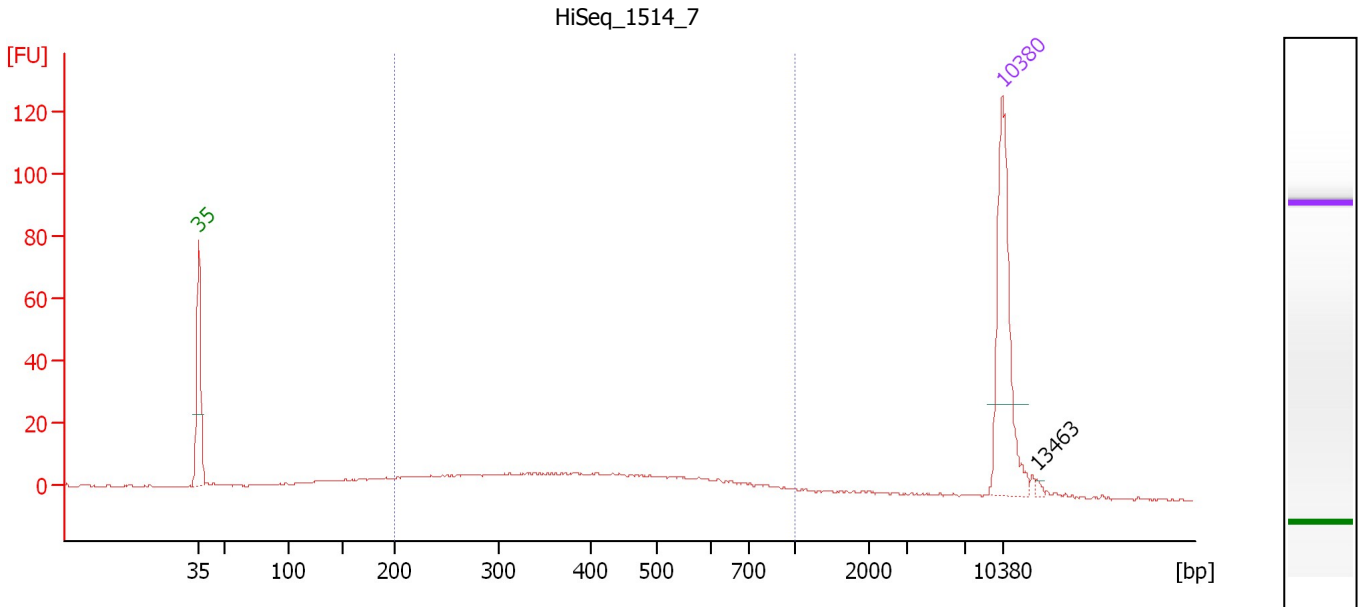
Region table for sample 3 : HiSeq_1514_6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	429	100.96	109.2	427.9	68	37.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : HiSeq_1514_7

Number of peaks found: 1 Corr. Area 1: 234.6
 Noise: 0.2

Peak table for sample 4 : HiSeq_1514_7

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	13,463	0.00	0.0		116.02

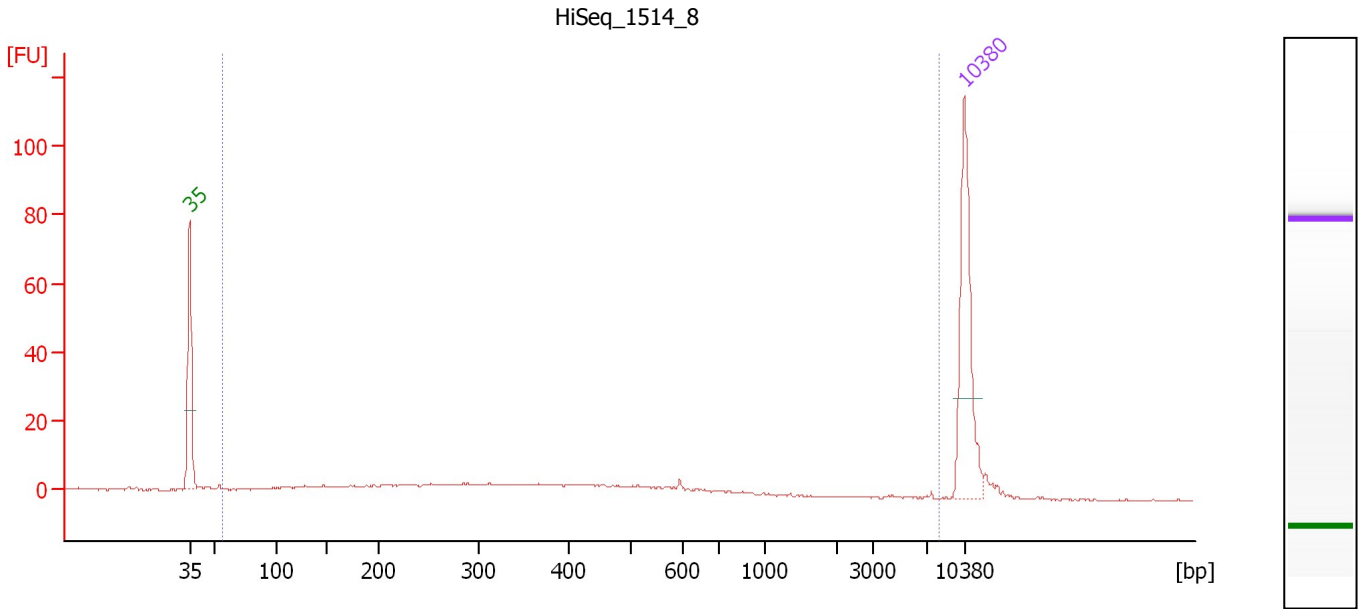
Region table for sample 4 : HiSeq_1514_7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	426	182.27	234.6	787.9	69	38.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
 Modified: 11/5/2018 11:01:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HiSeq_1514_8

Number of peaks found: 0 Corr. Area 1: 131.4
 Noise: 0.2

Peak table for sample 5 : HiSeq_1514_8

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

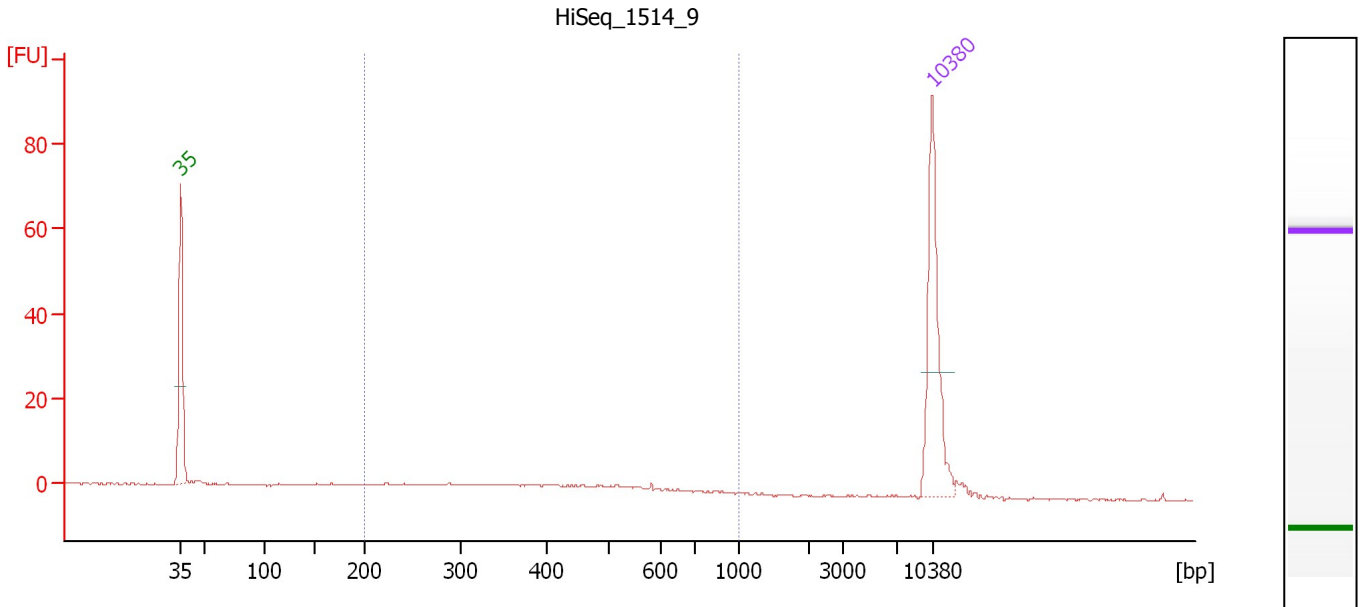
Region table for sample 5 : HiSeq_1514_8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
57	7,958	470	141.12	131.4	861.3	91	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
 Modified: 11/5/2018 11:01:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HiSeq_1514_9

Number of peaks found: 0 Corr. Area 1: 43.1
 Noise: 0.2

Peak table for sample 6 : HiSeq_1514_9

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

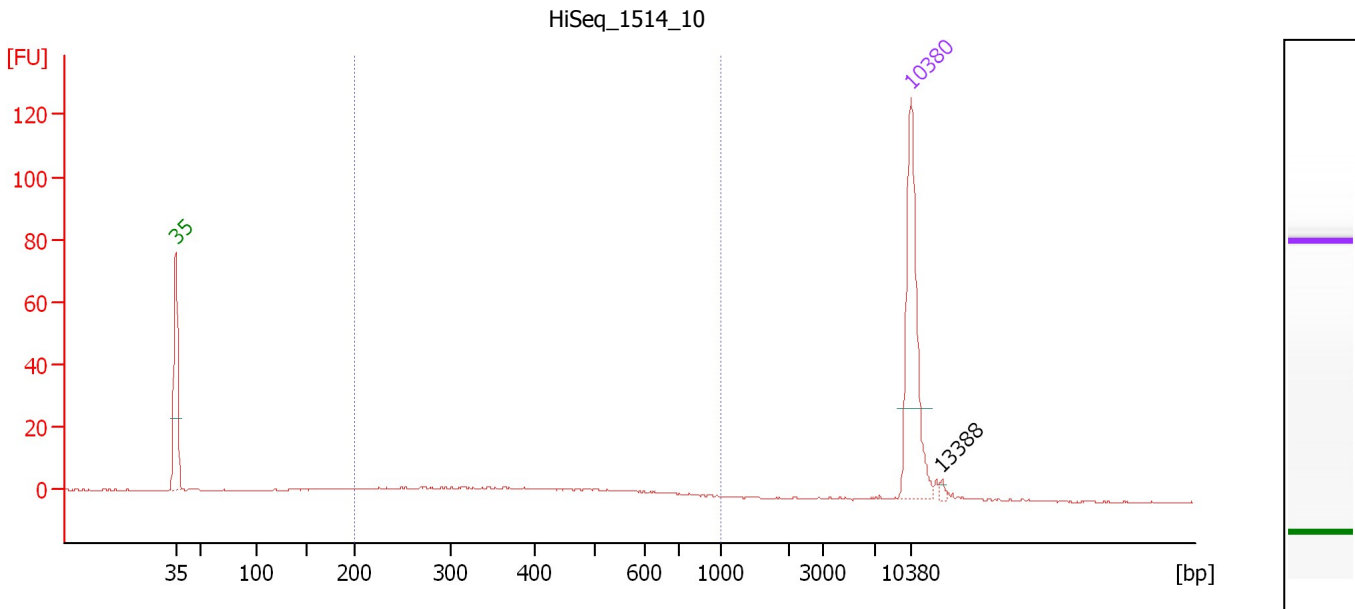
Region table for sample 6 : HiSeq_1514_9

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	408	53.79	43.1	234.5	68	34.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
 Modified: 11/5/2018 11:01:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HiSeq_1514_10

Number of peaks found: 1 Corr. Area 1: 79.8
 Noise: 0.2

Peak table for sample 7 : HiSeq_1514_10

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	13,388	0.00	0.0		115.95

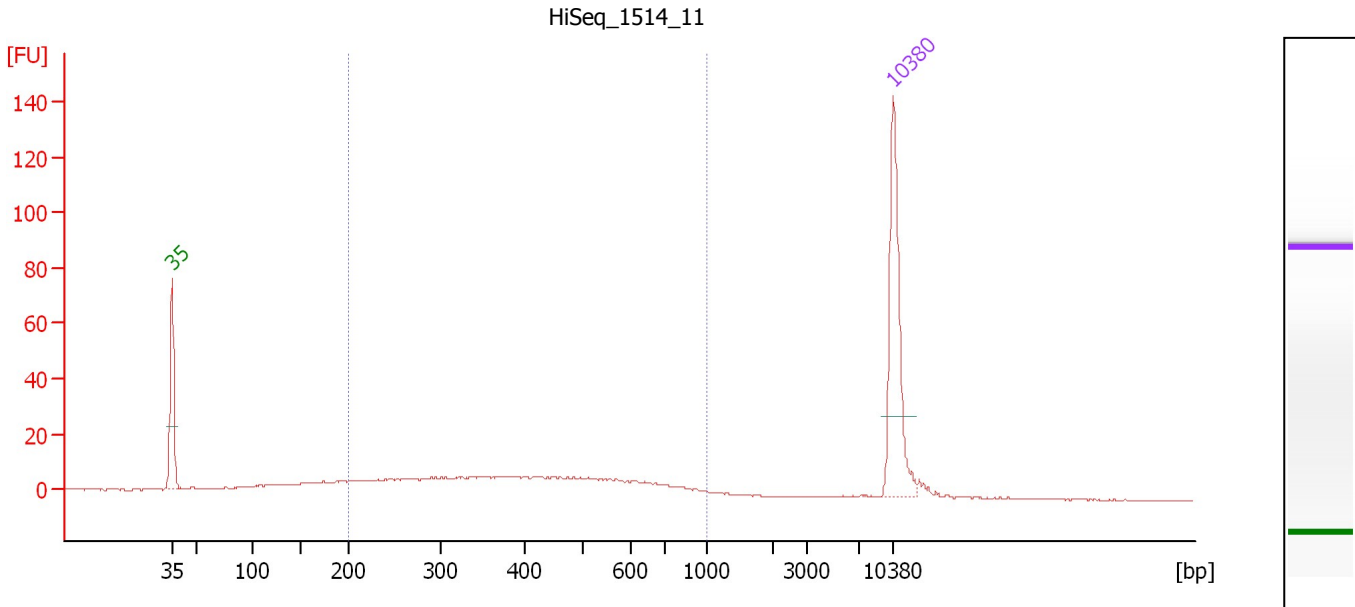
Region table for sample 7 : HiSeq_1514_10

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	410	68.58	79.8	302.3	68	36.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
 Modified: 11/5/2018 11:01:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HiSeq_1514_11

Number of peaks found: 0 Corr. Area 1: 227.3
 Noise: 0.2

Peak table for sample 8 : HiSeq_1514_11

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

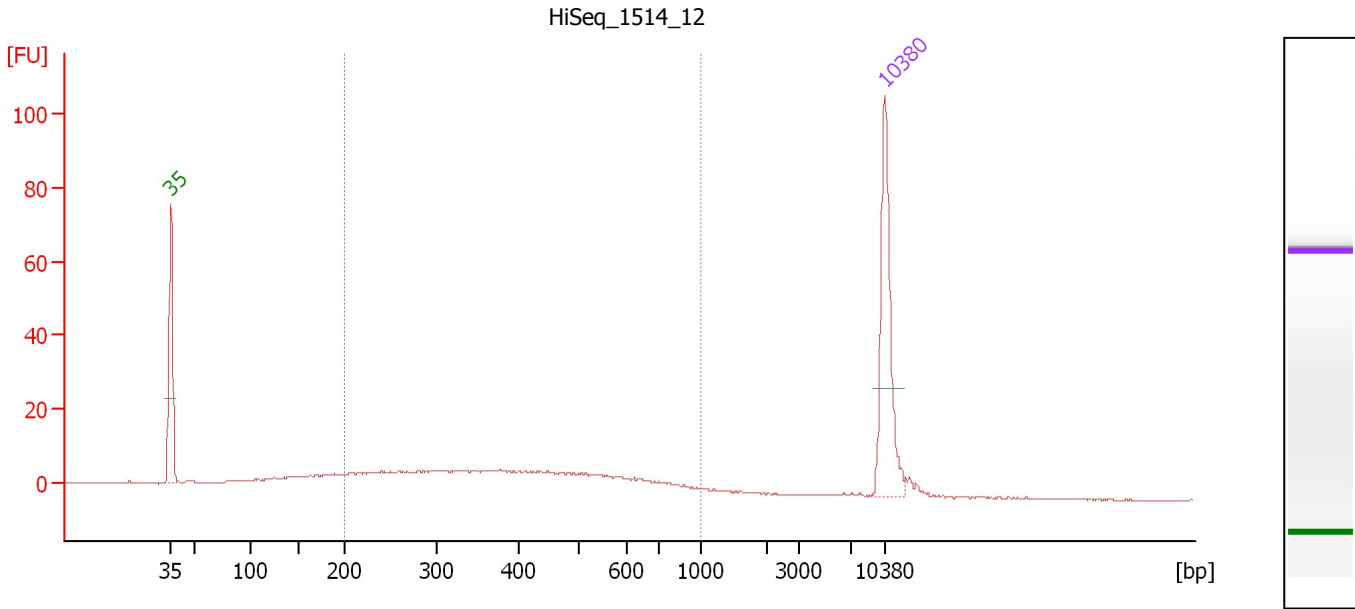
Region table for sample 8 : HiSeq_1514_11

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	430	181.56	227.3	775.8	74	38.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
 Modified: 11/5/2018 11:01:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HiSeq_1514_12

Number of peaks found: 0 Corr. Area 1: 188.9
 Noise: 0.2

Peak table for sample 9 : HiSeq_1514_12

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

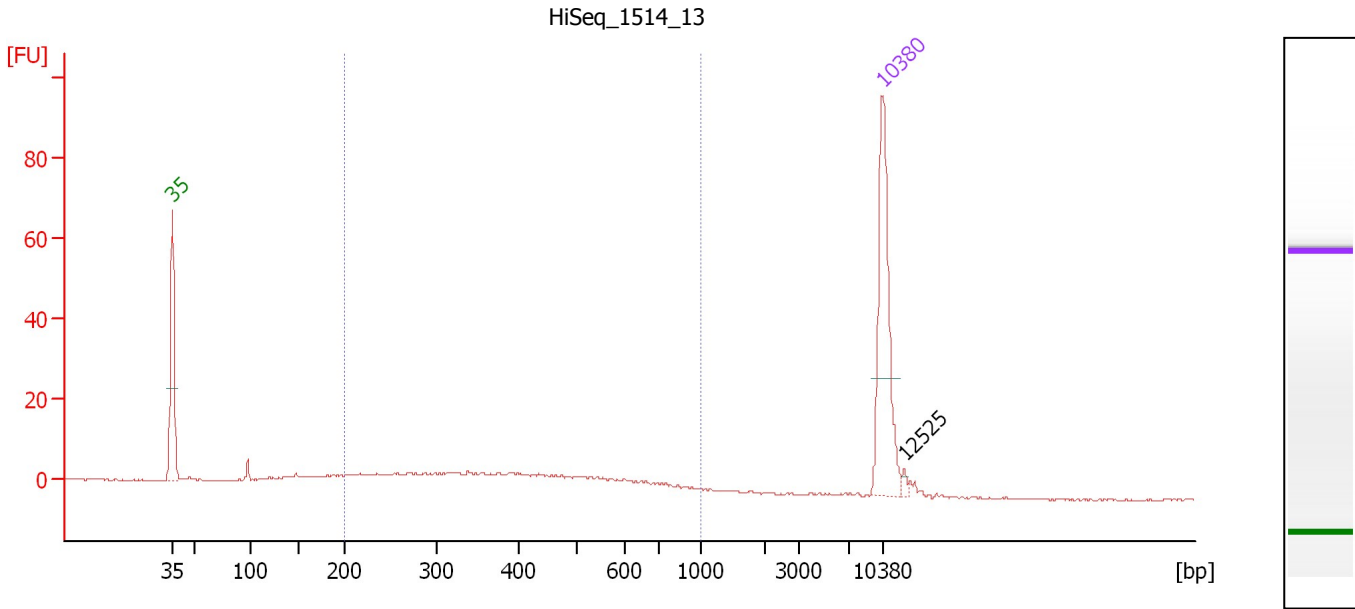
Region table for sample 9 : HiSeq_1514_12

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	419	206.34	188.9	901.3	74	38.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : HiSeq_1514_13

Number of peaks found: 1 Corr. Area 1: 114.1
 Noise: 0.2

Peak table for sample 10 : HiSeq_1514_13

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	12,525	0.00	0.0		115.10

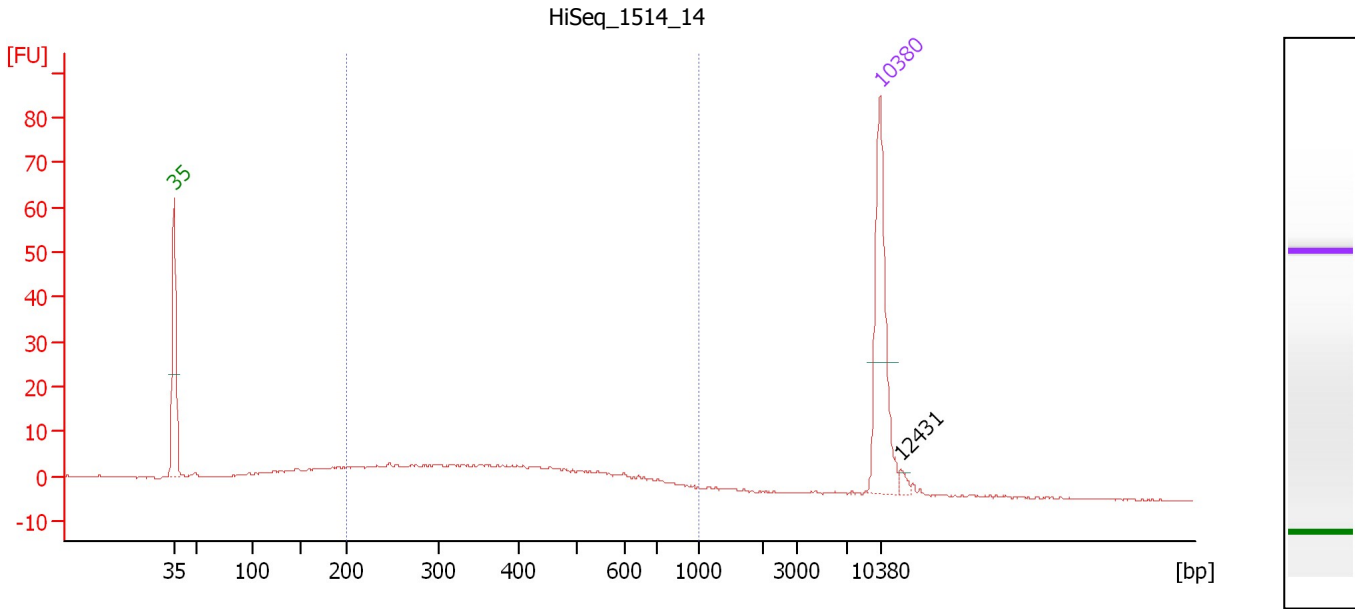
Region table for sample 10 : HiSeq_1514_13

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	409	121.14	114.1	533.7	75	36.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : HiSeq_1514_14

Number of peaks found: 1 Corr. Area 1: 163.5
 Noise: 0.2

Peak table for sample 11 : HiSeq_1514_14

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	12,431	0.00	0.0		115.01

Region table for sample 11 : HiSeq_1514_14

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	405	199.90	163.5	893.4	70	37.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-11-05\2018-11-05_002.xad

Created: 11/5/2018 10:23:52 AM
Modified: 11/5/2018 11:01:52 AM

Gel Image

