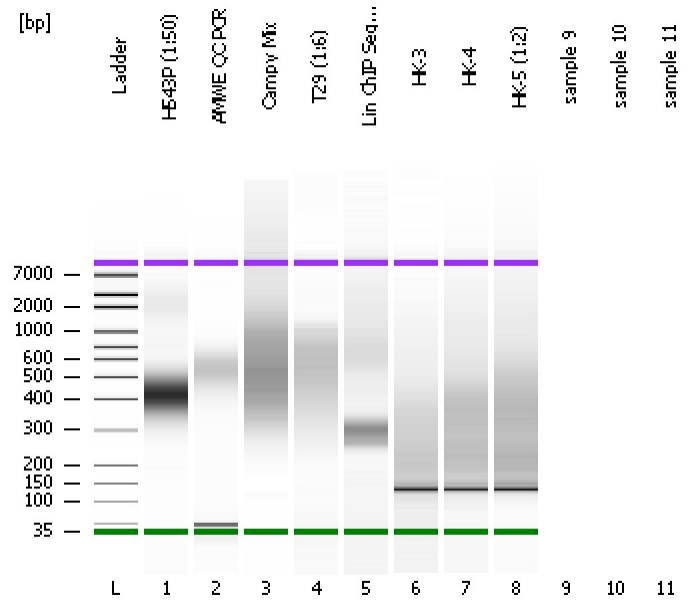
Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 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

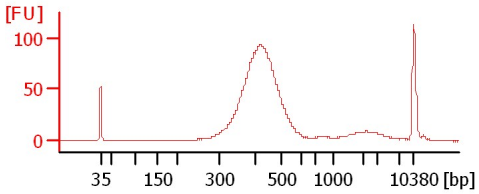
Chip Information:

Chip Lot #:

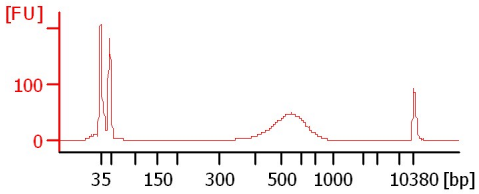
Reagent Kit Lot #:

Chip Comments:

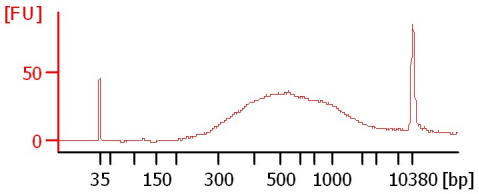
H543P (1:50)



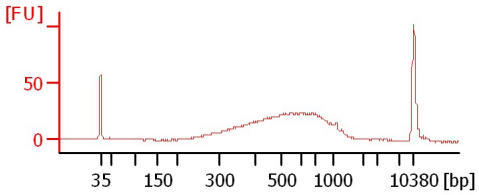
AMWE QC PCR



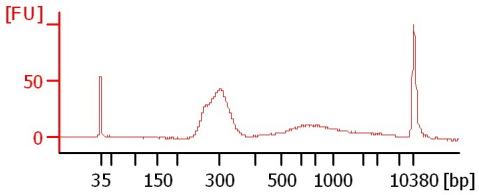
Campy Mix



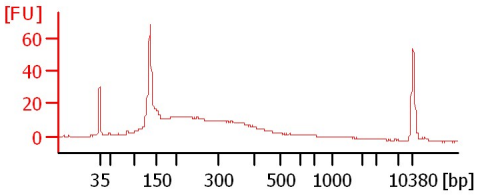
T29 (1:6)



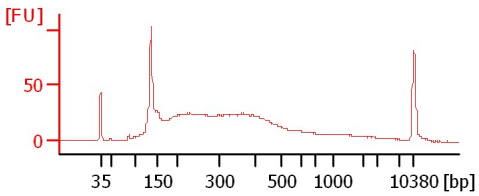
Lin ChIP Seq (1:2)



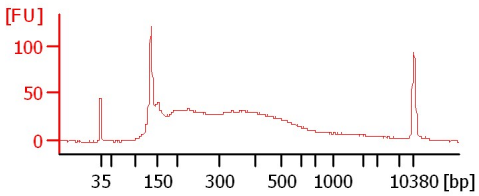
HK-3



HK-4



HK-5 (1:2)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
H543P (1:50)		☐	✔			
AMWE QC PCR		☐	✔			
Campy Mix		☐	✔			
T29 (1:6)		☐	✔			
Lin ChIP Seq (1:2)		☐	✔			
HK-3		☐	✔			
HK-4		☐	✔			
HK-5 (1:2)		☐	✔			
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 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

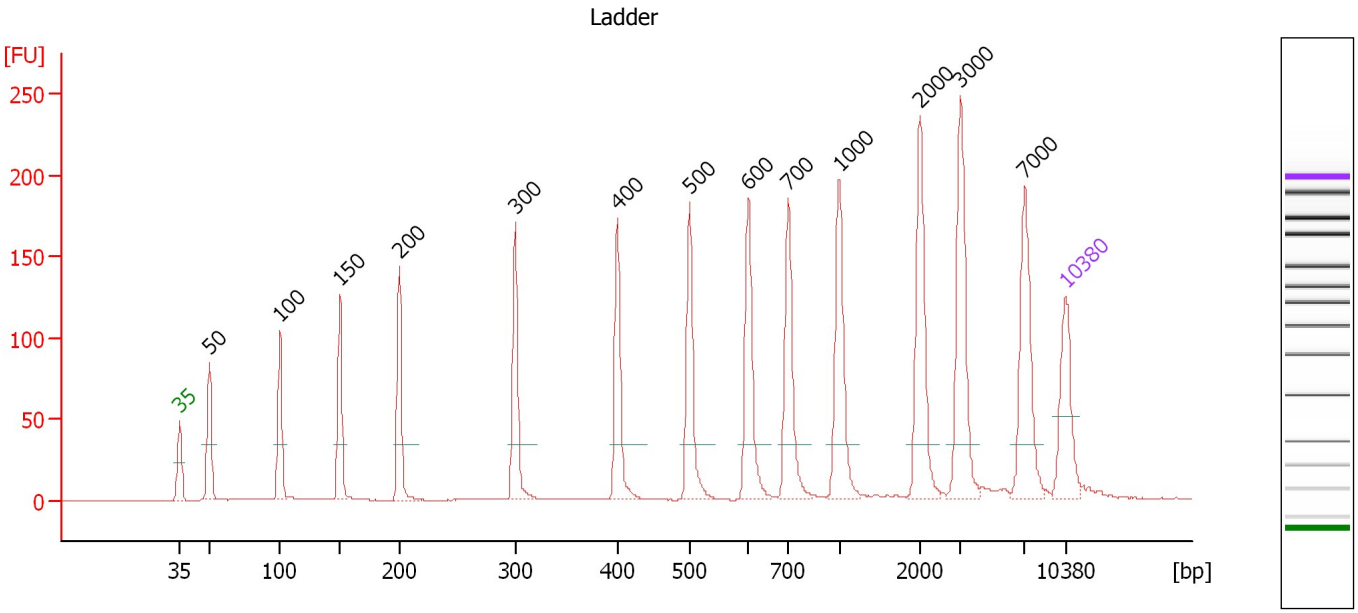
Ladder

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\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

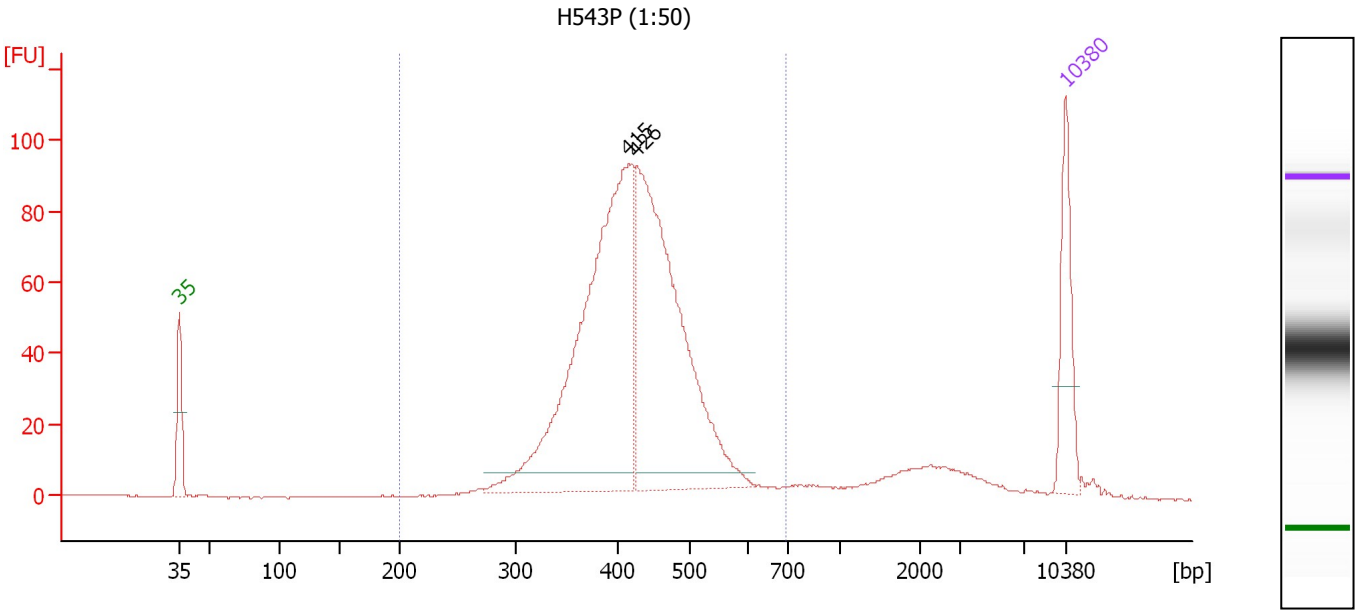
Peak table for Ladder

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	45.35
3		100	150.00	2,272.7	Ladder Peak	50.93
4		150	150.00	1,515.2	Ladder Peak	55.68
5		200	150.00	1,136.4	Ladder Peak	60.37
6		300	150.00	757.6	Ladder Peak	69.53
7		400	150.00	568.2	Ladder Peak	77.60
8		500	150.00	454.5	Ladder Peak	83.28
9		600	150.00	378.8	Ladder Peak	87.93
10		700	150.00	324.7	Ladder Peak	91.08
11		1,000	150.00	227.3	Ladder Peak	95.11
12		2,000	150.00	113.6	Ladder Peak	101.50
13		3,000	150.00	75.8	Ladder Peak	104.69
14		7,000	150.00	32.5	Ladder Peak	109.76
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : H543P (1:50)

Number of peaks found:	2	Corr. Area 1:	1,113.7
Noise:	0.2		

Peak table for sample 1 : H543P (1:50)

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	415	635.48	2,317.9		78.48
3	426	542.64	1,928.7		79.09
4	10,380	75.00	10.9	Upper Marker	113.00

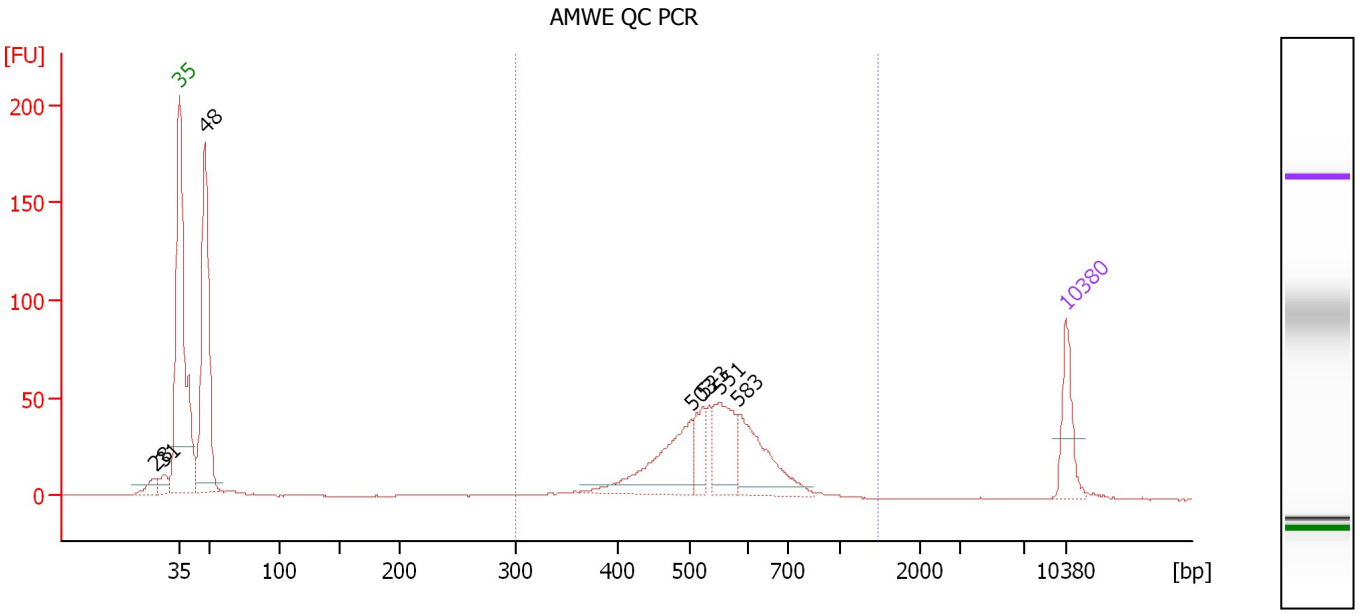
Region table for sample 1 : H543P (1:50)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
200	695	425	1,113.7	4,738.2	1,290.33	91	15.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AMWE QC PCR

Number of peaks found:	7	Corr. Area 1:	543.9
Noise:	0.2		

Peak table for sample 2 : AMWE QC PCR

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		41.02
2	31	0.00	0.0		41.78
3	35	125.00	5,411.3	Lower Marker	43.00
4	48	613.40	19,385.2		45.03
5	503	218.87	659.4		83.42
6	523	70.38	203.8		84.36
7	551	140.92	387.8		85.63
8	583	178.79	464.7		87.14
9	10,380	75.00	10.9	Upper Marker	113.00

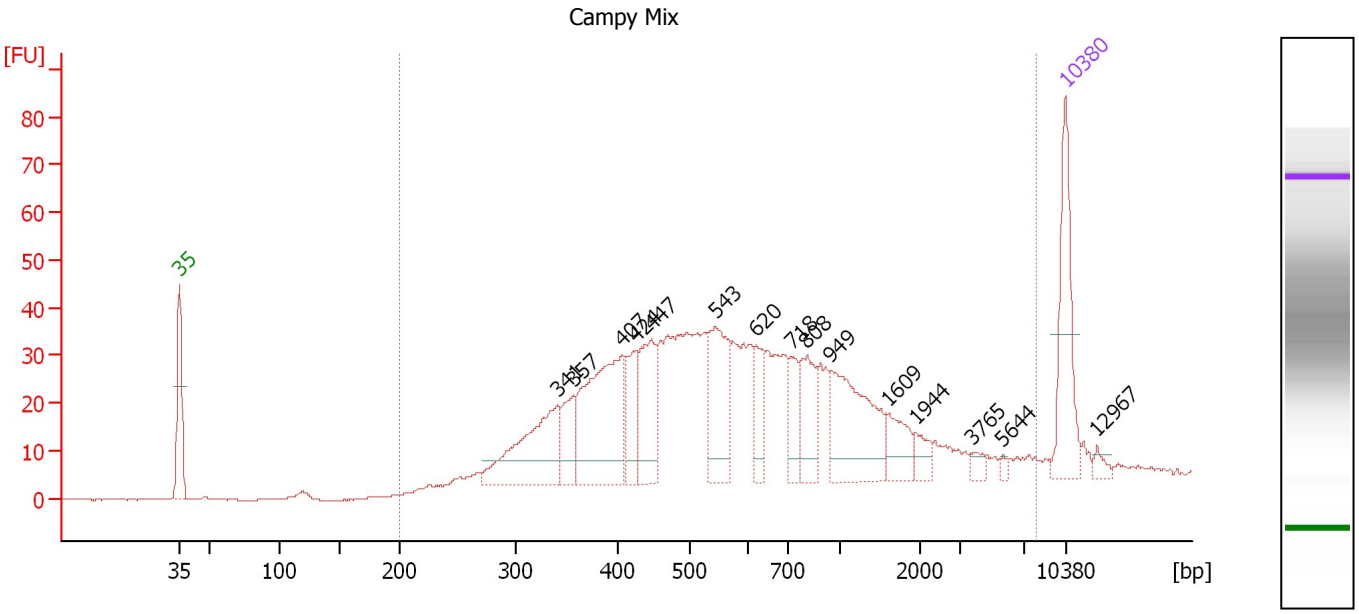
Region table for sample 2 : AMWE QC PCR

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
301	1,487	546	543.9	2,158.3	743.26	58	19.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Campy Mix

Number of peaks found:	15	Corr. Area 1:	1,080.6
Noise:	0.1		

Peak table for sample 3 : Campy Mix

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	341	130.26	579.6		72.80
3	357	43.17	183.3		74.11
4	407	168.18	626.1		78.00
5	424	44.96	160.6		78.97
6	447	78.47	265.8		80.28
7	543	94.06	262.3		85.29
8	620	37.87	92.6		88.55
9	718	32.74	69.1		91.32
10	808	49.83	93.4		92.53
11	949	111.12	177.3		94.43
12	1,609	29.74	28.0		99.00
13	1,944	14.40	11.2		101.14
14	3,765	7.36	3.0		105.66
15	5,644	3.09	0.8		108.04
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,967	0.00	0.0		115.48

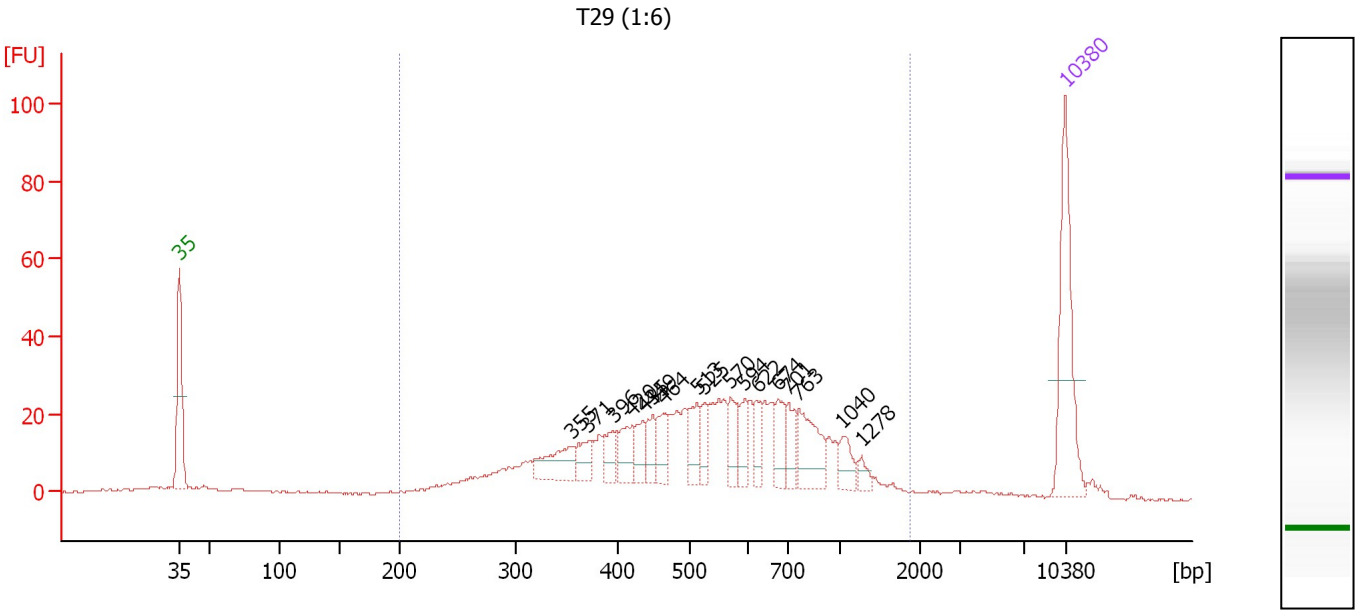
Region table for sample 3 : Campy Mix

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
200	8,026	937	1,080.6	4,499.7	1,512.84	94	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : T29 (1:6)

Number of peaks found:	17	Corr. Area 1:	627.0
Noise:	0.3		

Peak table for sample 4 : T29 (1:6)

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	355	38.01	162.1		74.00
3	371	20.09	82.0		75.27
4	396	18.75	71.7		77.29
5	420	26.81	96.6		78.76
6	435	18.97	66.1		79.60
7	449	19.19	64.8		80.38
8	464	22.47	73.4		81.22
9	513	27.28	80.6		83.87
10	525	17.99	51.9		84.46
11	570	22.98	61.1		86.52
12	594	18.26	46.6		87.65
13	622	18.26	44.5		88.64
14	674	22.49	50.6		90.26
15	701	21.02	45.4		91.09
16	763	44.63	88.6		91.93
17	1,040	15.72	22.9		95.36
18	1,278	7.29	8.6		96.89
19	10,380	75.00	10.9	Upper Marker	113.00

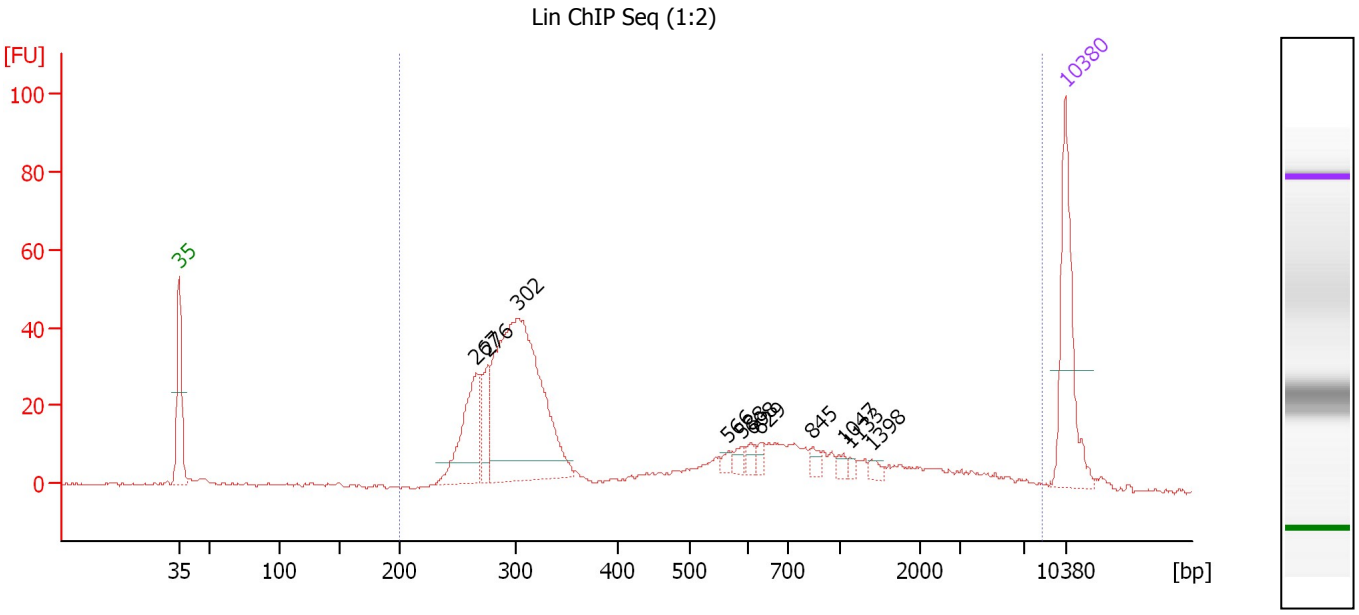
Region table for sample 4 : T29 (1:6)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,864	577	627.0	2,302.0	715.50	94	42.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Lin ChIP Seq (1:2)

Number of peaks found:	11	Corr. Area 1:	636.3
Noise:	0.4		

Peak table for sample 5 : Lin ChIP Seq (1:2)

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	267	93.95	534.0		66.47
3	276	37.60	206.5		67.31
4	302	330.06	1,658.1		69.65
5	566	5.42	14.5		86.35
6	588	7.26	18.7		87.39
7	608	7.68	19.1		88.19
8	629	6.10	14.7		88.84
9	845	6.89	12.4		93.02
10	1,047	4.92	7.1		95.41
11	1,133	3.51	4.7		95.96
12	1,398	5.23	5.7		97.65
13	10,380	75.00	10.9	Upper Marker	113.00

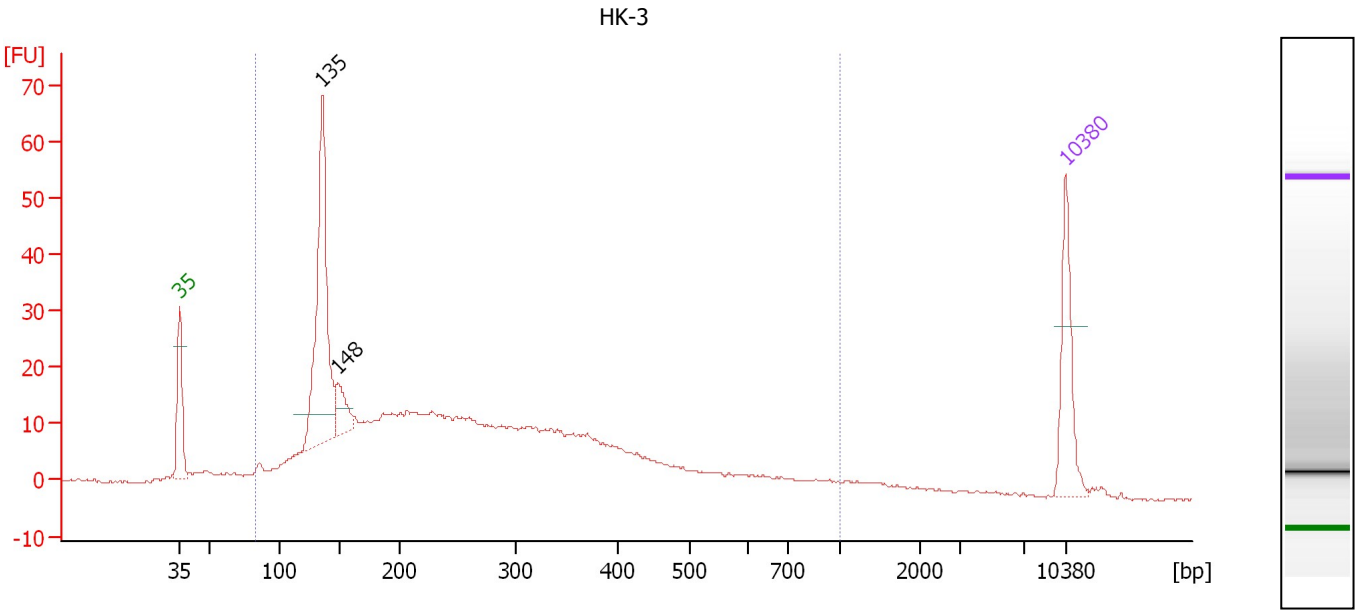
Region table for sample 5 : Lin ChIP Seq (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	8,502	845	636.3	3,097.8	759.65	96	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HK-3

Number of peaks found:	2	Corr. Area 1:	615.5
Noise:	0.3		

Peak table for sample 6 : HK-3

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	135	347.83	3,903.5		54.25
3	148	51.44	525.5		55.52
4	10,380	75.00	10.9	Upper Marker	113.00

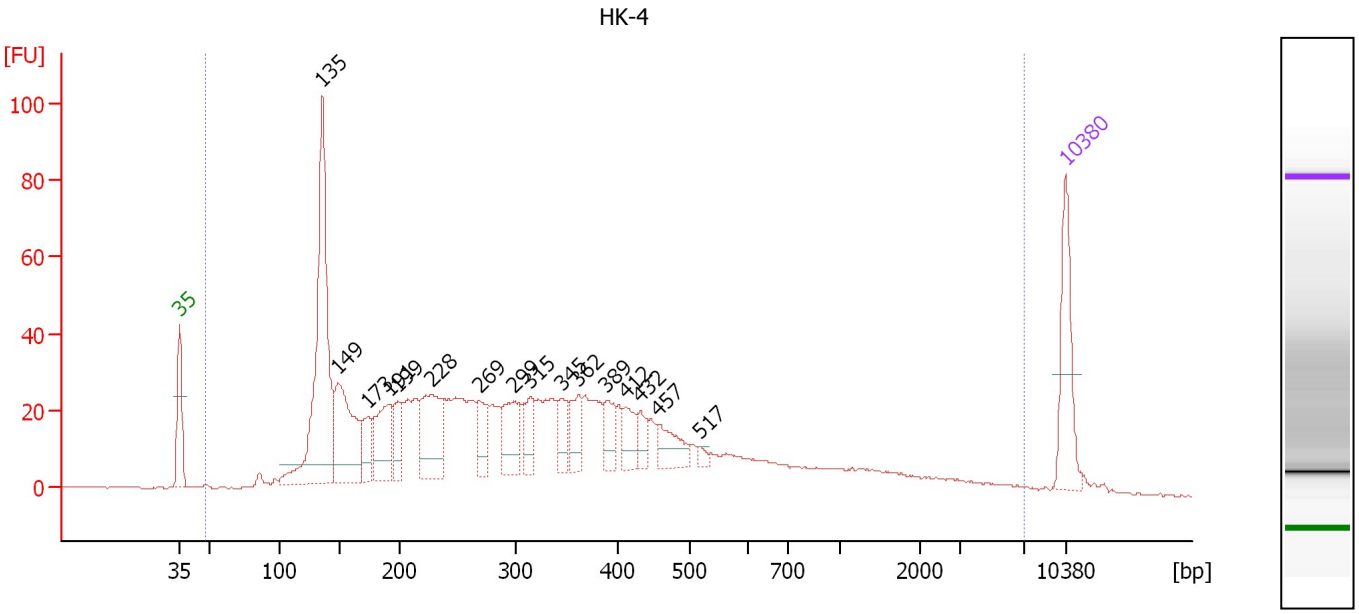
Region table for sample 6 : HK-3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
82	1,000	271	615.5	14,041.3		1,783.74	95	54.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HK-4

Number of peaks found:	16	Corr. Area 1:	1,309.6
Noise:	0.1		

Peak table for sample 7 : HK-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	135	423.34	4,749.9		54.26
3	149	170.94	1,743.7		55.54
4	173	46.13	404.0		57.84
5	191	90.11	714.7		59.53
6	199	45.06	343.7		60.24
7	228	125.09	832.4		62.90
8	269	49.08	276.4		66.69
9	299	71.99	365.2		69.40
10	315	42.05	202.3		70.73
11	345	38.39	168.4		73.19
12	362	41.63	174.3		74.52
13	389	32.42	126.2		76.72
14	412	35.50	130.7		78.26
15	432	23.13	81.1		79.43
16	457	41.89	139.0		80.81
17	517	6.76	19.8		84.09
18	10,380	75.00	10.9	Upper Marker	113.00

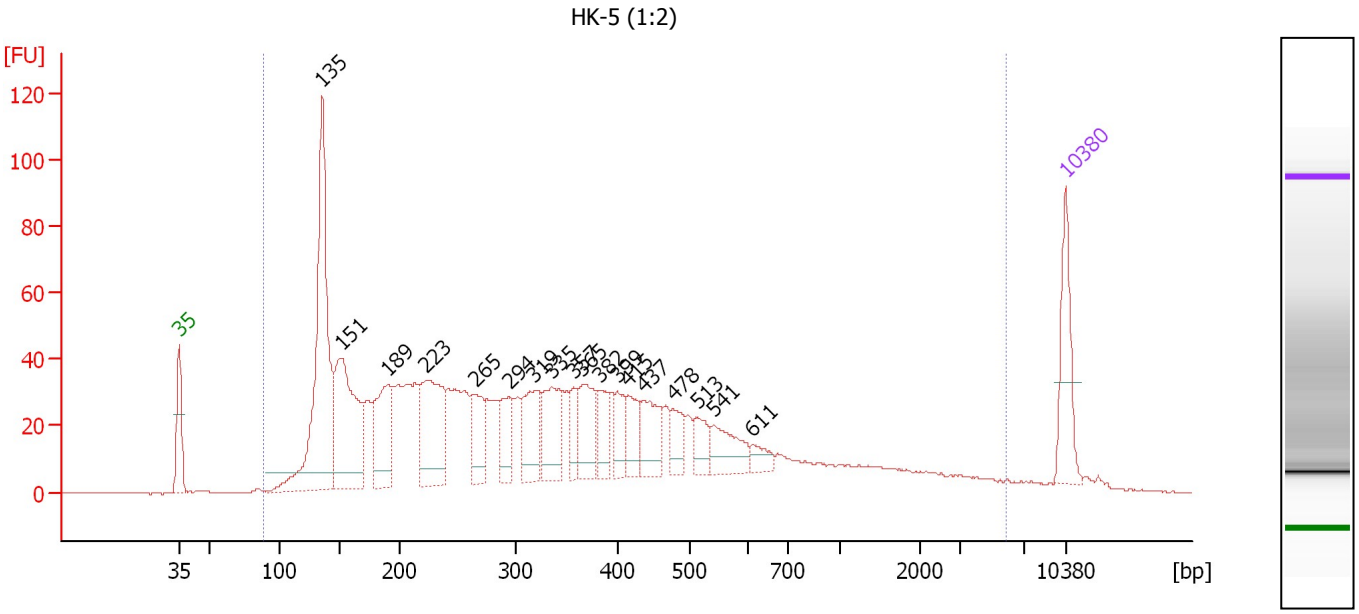
Region table for sample 7 : HK-4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
48	7,035	491	1,309.6	16,118.3	2,422.04	98	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HK-5 (1:2)

Number of peaks found:	18	Corr. Area 1:	1,788.3
Noise:	0.1		

Peak table for sample 8 : HK-5 (1:2)

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	135	511.97	5,750.4		54.24
3	151	283.47	2,838.8		55.80
4	189	145.49	1,164.0		59.37
5	223	198.60	1,349.0		62.48
6	265	85.75	490.4		66.32
7	294	63.89	328.8		69.01
8	319	89.99	427.9		71.03
9	335	101.97	460.7		72.38
10	357	40.68	172.6		74.14
11	365	87.01	361.3		74.76
12	382	45.47	180.3		76.16
13	399	41.87	158.8		77.56
14	415	53.67	196.0		78.44
15	437	68.86	238.9		79.68
16	478	39.30	124.7		82.02
17	513	36.66	108.3		83.88
18	541	63.76	178.7		85.18
19	611	20.54	50.9		88.28
20	10,380	75.00	10.9	Upper Marker	113.00

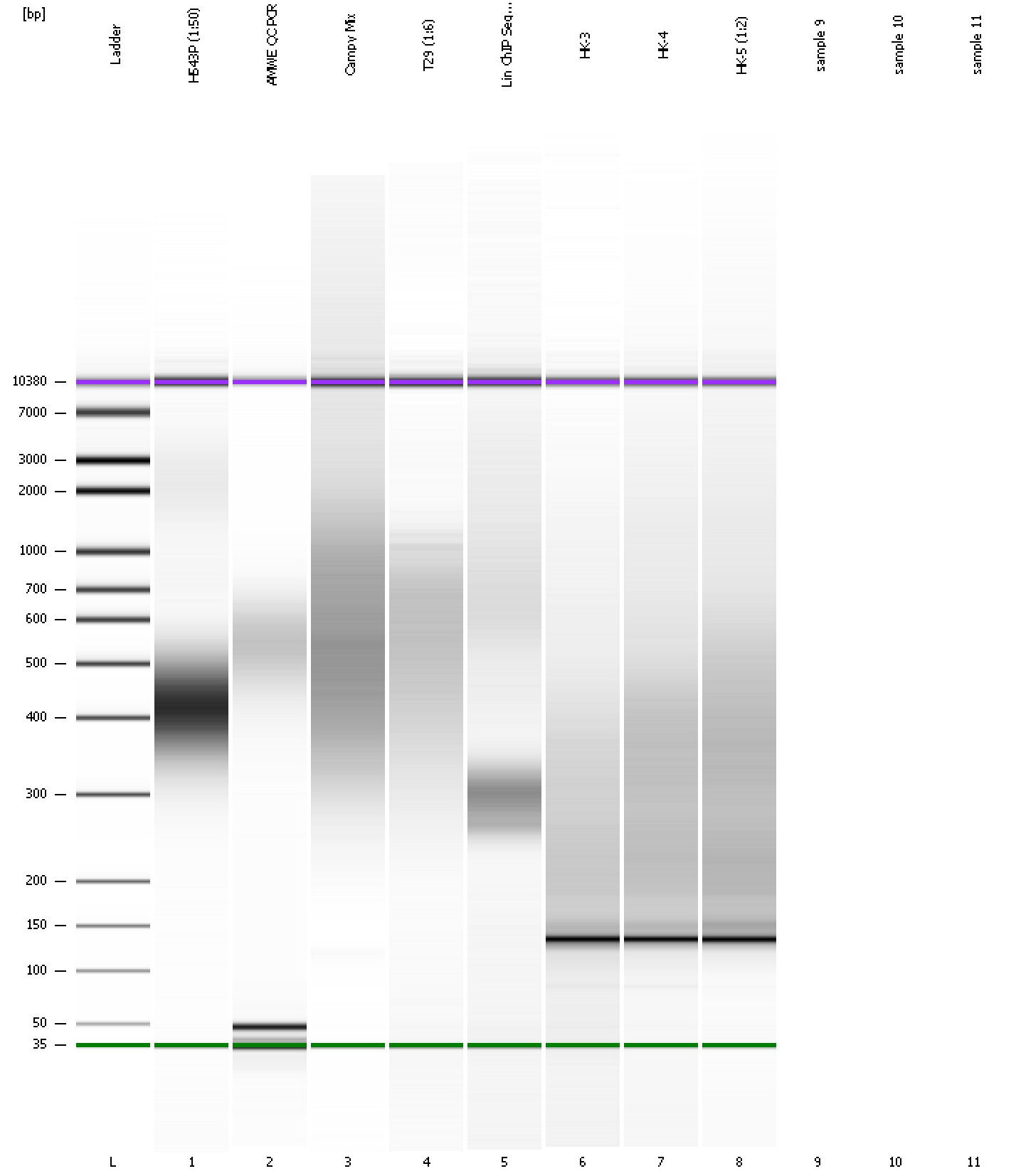
Region table for sample 8 : HK-5 (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
88	5,873	487	1,788.3	20,649.7	3,225.31	97	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Invalid Samples

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:\... bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad

Created: 6/13/2016 3:39:51 PM
Modified: 6/13/2016 4:13:31 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		6/13/2016 4:12:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-13\2016-06-13_001.xad)		Instrument	Run		6/13/2016 3:39:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/13/2016 3:39:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/13/2016 3:39:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/13/2016 3:39:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/13/2016 3:39:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/13/2016 3:39:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/13/2016 3:39:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1