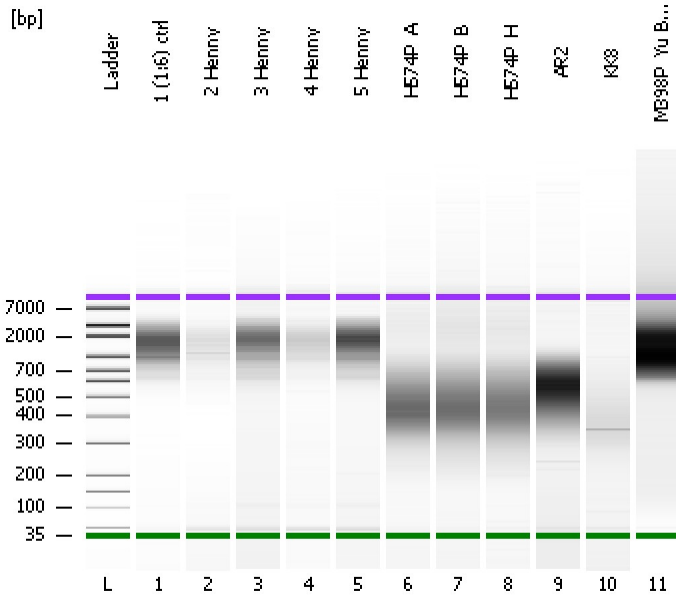


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
Modified: 9/14/2016 3:48:02 PM

Electrophoresis File Run Summary



Instrument Information:

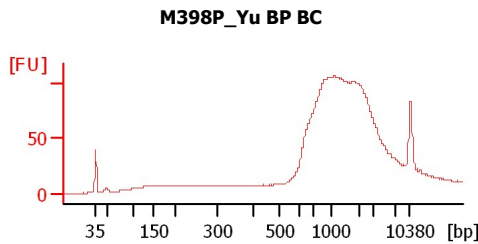
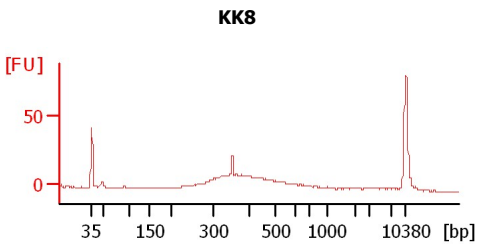
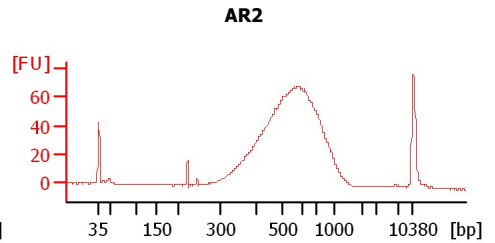
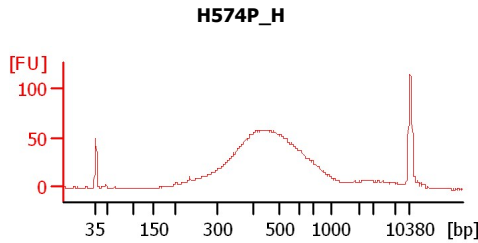
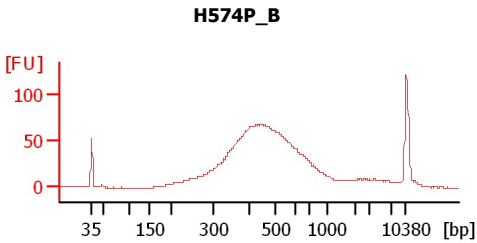
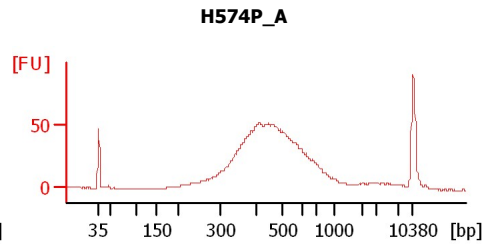
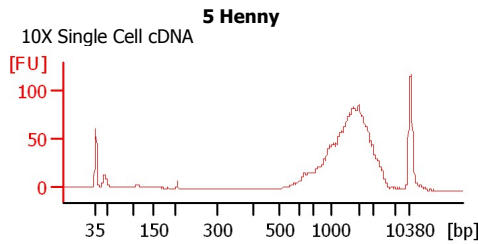
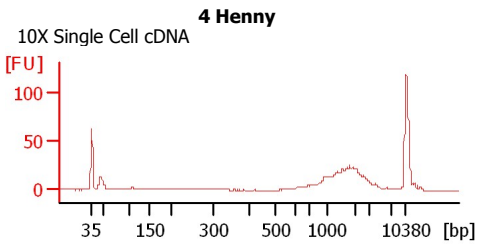
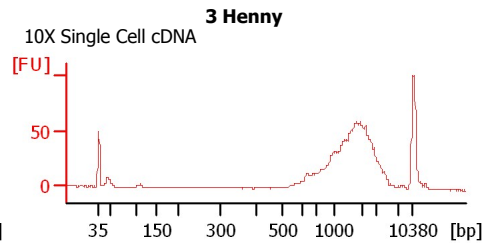
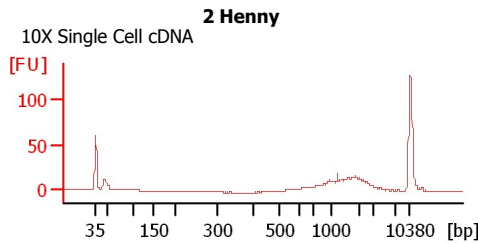
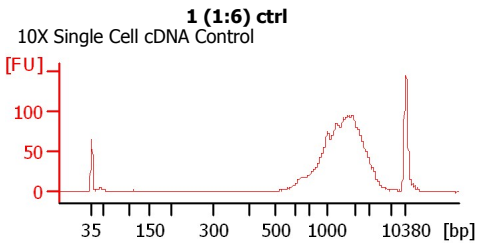
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
Modified: 9/14/2016 3:48:02 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1 (1:6) ctrl	10X Single Cell cDNA Control	<input type="checkbox"/>	✓			
2 Henny	10X Single Cell cDNA	<input type="checkbox"/>	✓			
3 Henny	10X Single Cell cDNA	<input type="checkbox"/>	✓			
4 Henny	10X Single Cell cDNA	<input type="checkbox"/>	✓			
5 Henny	10X Single Cell cDNA	<input type="checkbox"/>	✓			
H574P_A		<input type="checkbox"/>	✓			
H574P_B		<input type="checkbox"/>	✓			
H574P_H		<input type="checkbox"/>	✓			
AR2		<input type="checkbox"/>	✓			
KK8		<input type="checkbox"/>	✓			
M398P_Yu BP BC		<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\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
Modified: 9/14/2016 3:48:02 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

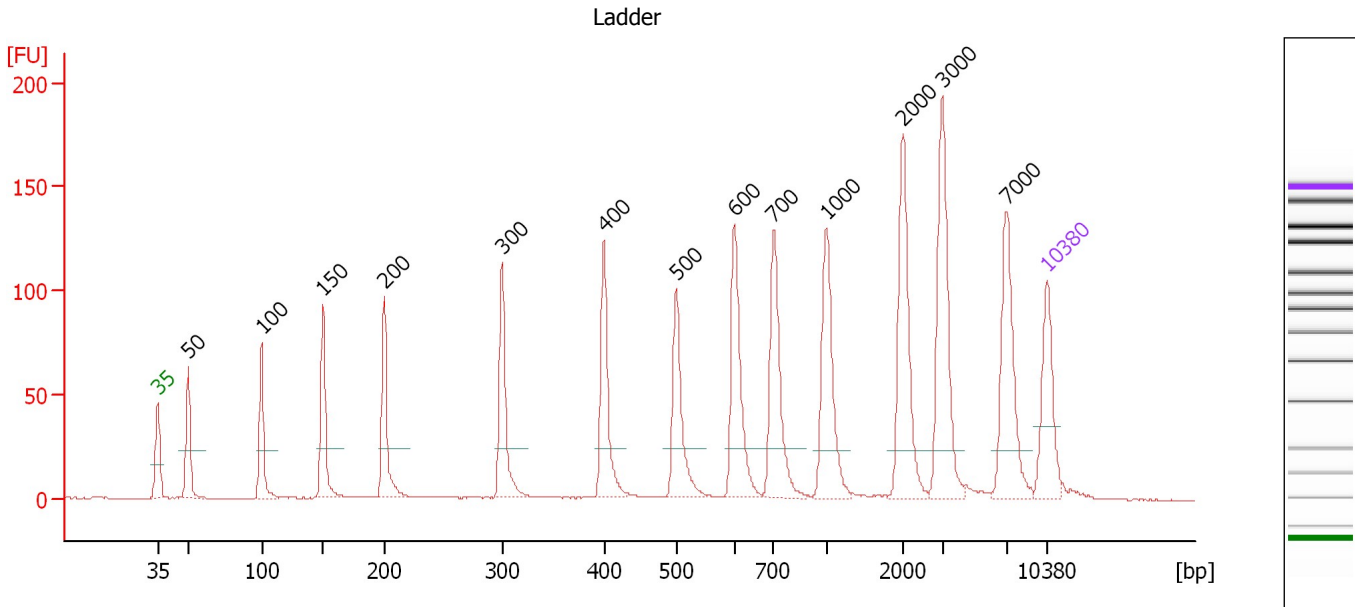
Ladder

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\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

Peak table for Ladder

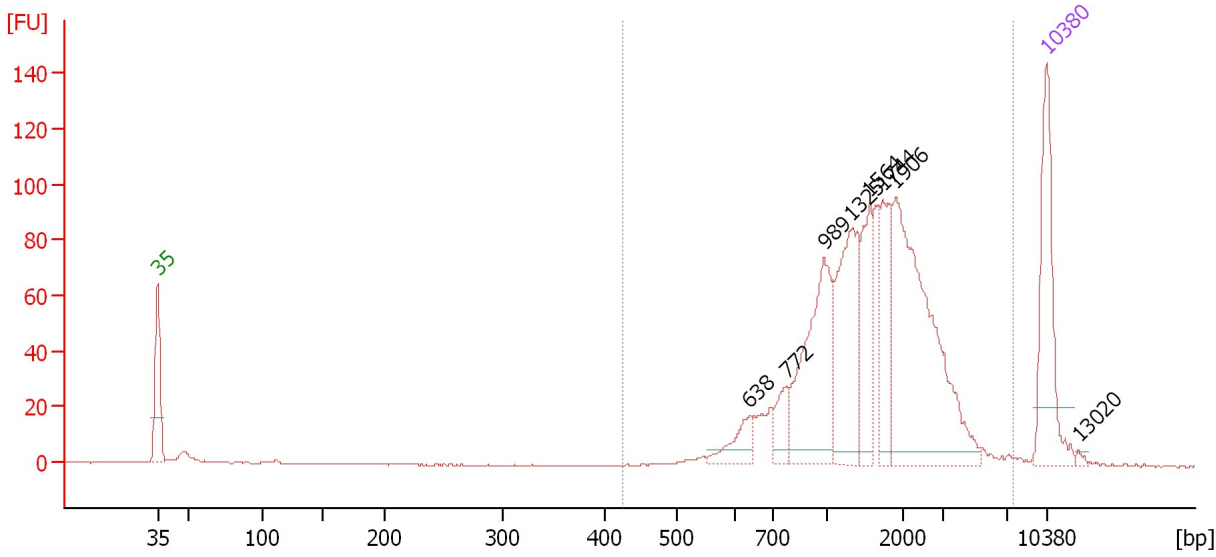
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.40
3	100	150.00	2,272.7	Ladder Peak	51.18
4	150	150.00	1,515.2	Ladder Peak	56.04
5	200	150.00	1,136.4	Ladder Peak	60.85
6	300	150.00	757.6	Ladder Peak	70.10
7	400	150.00	568.2	Ladder Peak	78.13
8	500	150.00	454.5	Ladder Peak	83.80
9	600	150.00	378.8	Ladder Peak	88.41
10	700	150.00	324.7	Ladder Peak	91.47
11	1,000	150.00	227.3	Ladder Peak	95.62
12	2,000	150.00	113.6	Ladder Peak	101.65
13	3,000	150.00	75.8	Ladder Peak	104.77
14	7,000	150.00	32.5	Ladder Peak	109.83
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Electropherogram Summary Continued ...

1 (1:6) ctrl [10X Single Cell cDNA Control]



Overall Results for sample 1 : 1 (1:6) ctrl

Number of peaks found: 8 Corr. Area 1: 1,033.2
 Noise: 0.2

Peak table for sample 1 : 1 (1:6) ctrl

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	638	25.16	59.7		89.58
3	772	21.70	42.6		92.47
4	989	120.77	185.0		95.46
5	1,325	100.72	115.2		97.58
6	1,564	57.39	55.6		99.02
7	1,744	50.87	44.2		100.10
8	1,906	192.66	153.1		101.08
9	10,380	75.00	10.9	Upper Marker	113.00
10	13,020	0.00	0.0		115.48

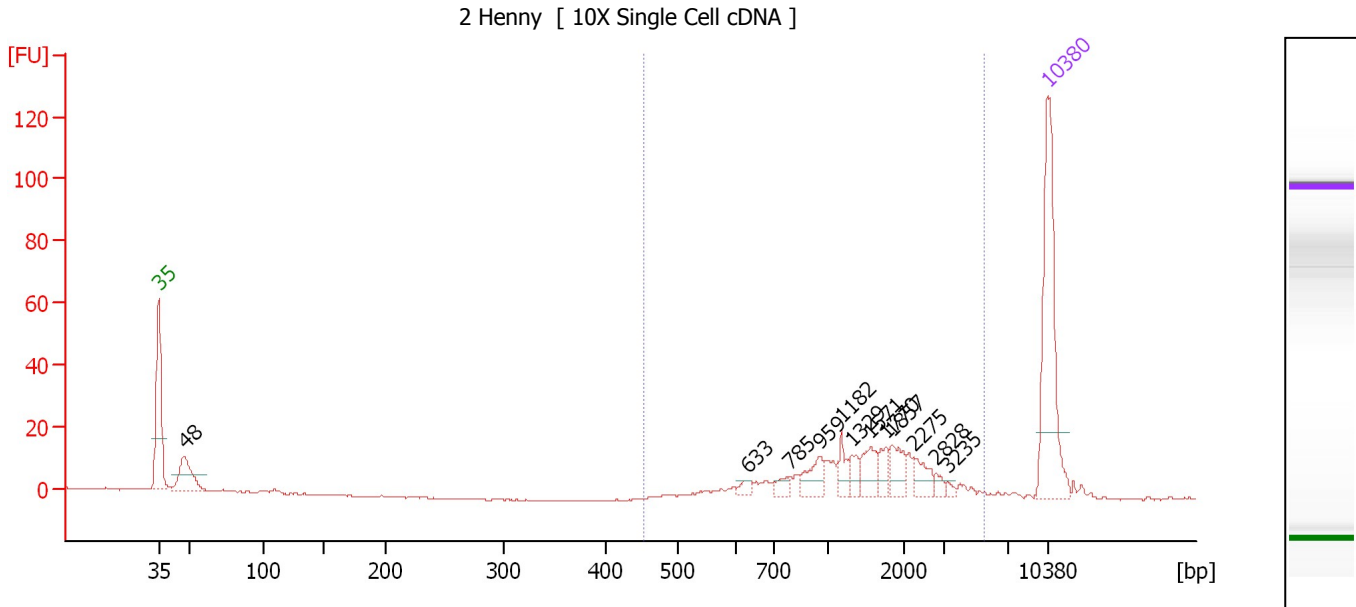
Region table for sample 1 : 1 (1:6) ctrl

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
427	7,527	1,720	1,033.2	727.6	633.18	98	53.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2 Henry

Number of peaks found: 12 Corr. Area 1: 159.7
 Noise: 0.2

Peak table for sample 2 : 2 Henry

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	48	38.04	1,208.0		45.04
3	633	5.06	12.1		89.41
4	785	6.15	11.9		92.64
5	959	14.90	23.6		95.04
6	1,182	9.74	12.5		96.71
7	1,329	7.89	9.0		97.60
8	1,571	13.88	13.4		99.06
9	1,770	8.64	7.4		100.26
10	1,857	13.40	10.9		100.79
11	2,275	10.46	7.0		102.51
12	2,828	3.43	1.8		104.23
13	3,235	2.18	1.0		105.07
14	10,380	75.00	10.9	Upper Marker	113.00

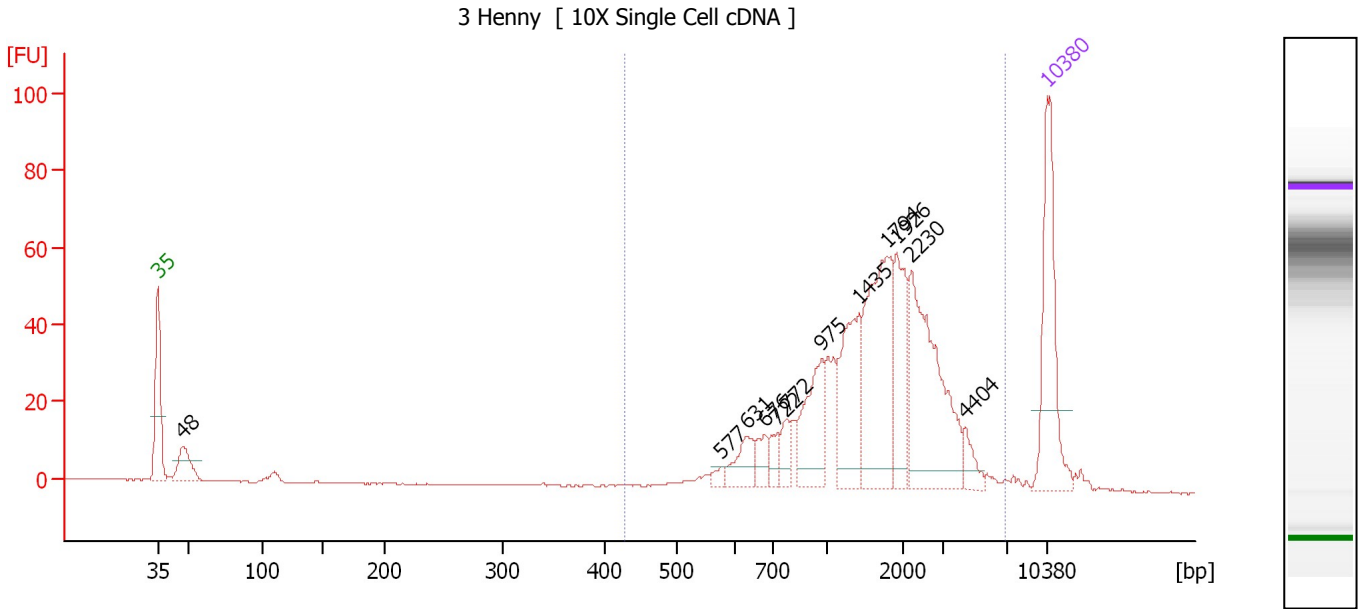
Region table for sample 2 : 2 Henry

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
455	5,589	1,615	159.7	139.4	115.81	84	49.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3 Henry

Number of peaks found: 12 Corr. Area 1: 655.7
 Noise: 0.1

Peak table for sample 3 : 3 Henry

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	48	35.03	1,116.2		45.01
3	577	5.62	14.8		87.34
4	631	23.65	56.8		89.35
5	676	14.77	33.1		90.72
6	722	10.02	21.0		91.78
7	772	15.37	30.2		92.47
8	975	53.58	83.2		95.28
9	1,435	62.34	65.8		98.24
10	1,794	110.59	93.4		100.41
11	1,926	52.48	41.3		101.20
12	2,230	114.25	77.6		102.37
13	4,404	12.07	4.2		106.54
14	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 3 : 3 Henry

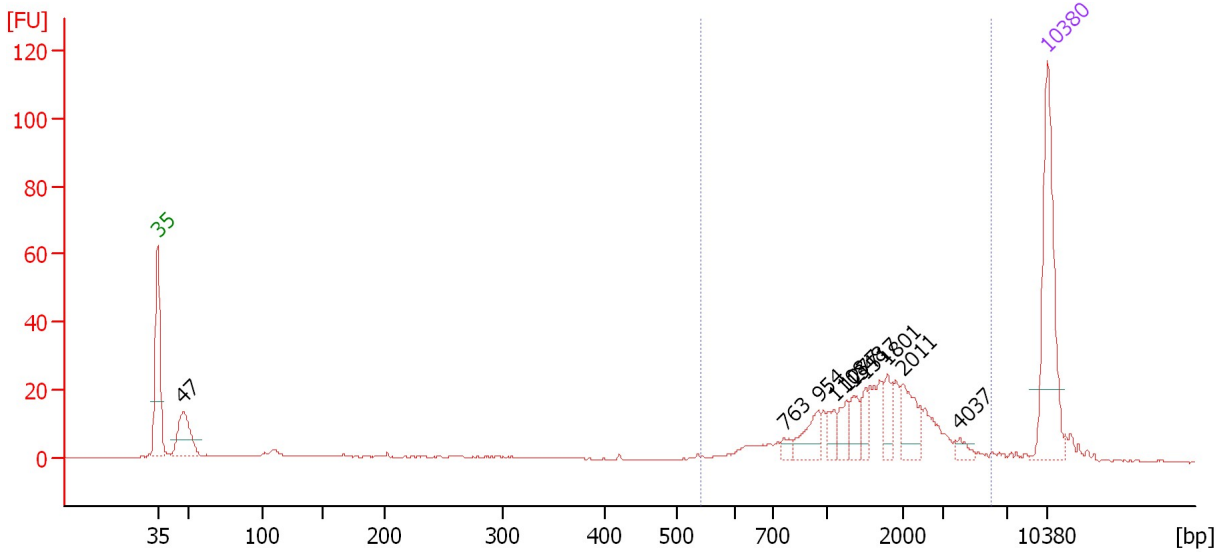
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
428	6,880	1,810	655.7	649.3	558.06	91	56.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Electropherogram Summary Continued ...

4 Henny [10X Single Cell cDNA]



Overall Results for sample 4 : 4 Henny

Number of peaks found: 10 Corr. Area 1: 247.4
 Noise: 0.2

Peak table for sample 4 : 4 Henny

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	47	47.48	1,518.0		44.98
3	763	5.36	10.6		92.35
4	954	19.20	30.5		94.98
5	1,108	9.17	12.5		96.26
6	1,277	11.90	14.1		97.28
7	1,348	13.50	15.2		97.71
8	1,517	11.02	11.0		98.73
9	1,801	12.48	10.5		100.45
10	2,011	22.05	16.6		101.68
11	4,037	5.39	2.0		106.08
12	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 : 4 Henny

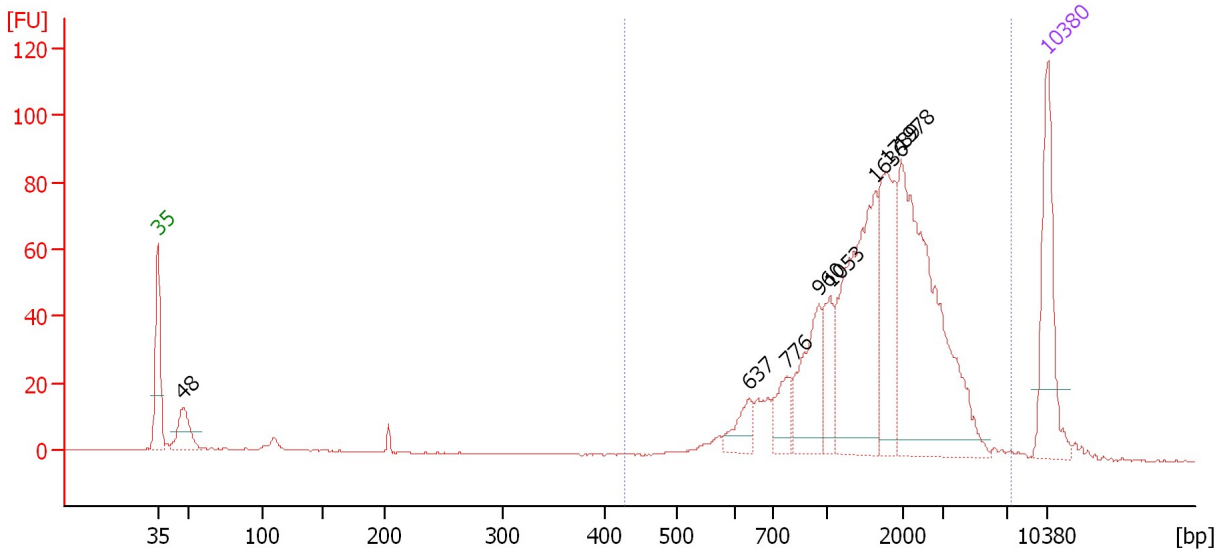
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
542	6,093	1,758	247.4	226.9	198.76	68	53.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Electropherogram Summary Continued ...

5 Henry [10X Single Cell cDNA]



Overall Results for sample 5 : 5 Henry

Number of peaks found: 8
 Noise: 0.1
 Corr. Area 1: 897.4

Peak table for sample 5 : 5 Henry

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	48	43.43	1,385.1		45.00
3	637	25.78	61.3		89.54
4	776	29.91	58.4		92.52
5	960	69.43	109.5		95.07
6	1,053	35.20	50.7		95.93
7	1,636	164.31	152.1		99.46
8	1,789	89.52	75.8		100.38
9	1,978	221.96	170.1		101.51
10	10,380	75.00	10.9	Upper Marker	113.00

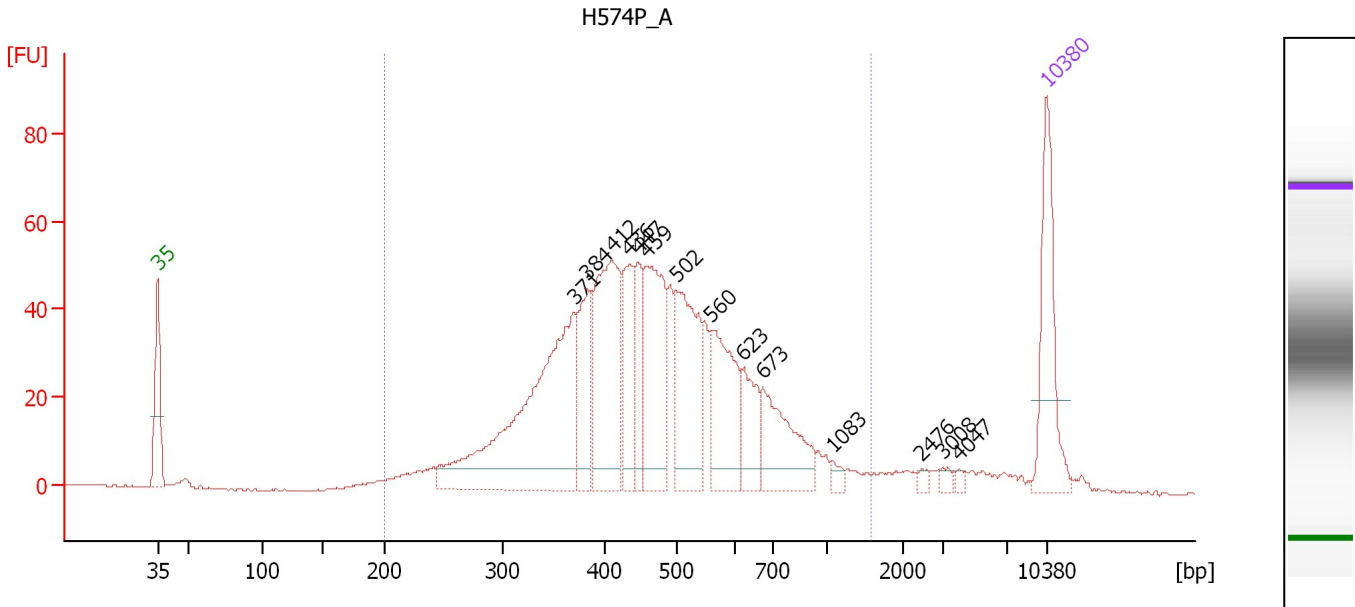
Region table for sample 5 : 5 Henry

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
429	7,417	1,820	897.4	807.1	709.53	89	54.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : H574P A

Number of peaks found: 14 Corr. Area 1: 1,107.8
 Noise: 0.2

Peak table for sample 6 : H574P A

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	371	300.78	1,229.2		75.78
3	384	72.82	287.5		76.82
4	412	167.49	616.3		78.79
5	436	64.10	222.8		80.17
6	447	55.86	189.1		80.82
7	459	126.47	417.4		81.48
8	502	120.54	363.9		83.89
9	560	96.29	260.4		86.58
10	623	44.49	108.3		89.10
11	673	81.83	184.3		90.64
12	1,083	6.28	8.8		96.12
13	2,476	4.10	2.5		103.13
14	3,008	4.71	2.4		104.78
15	4,047	3.16	1.2		106.09
16	10,380	75.00	10.9	Upper Marker	113.00

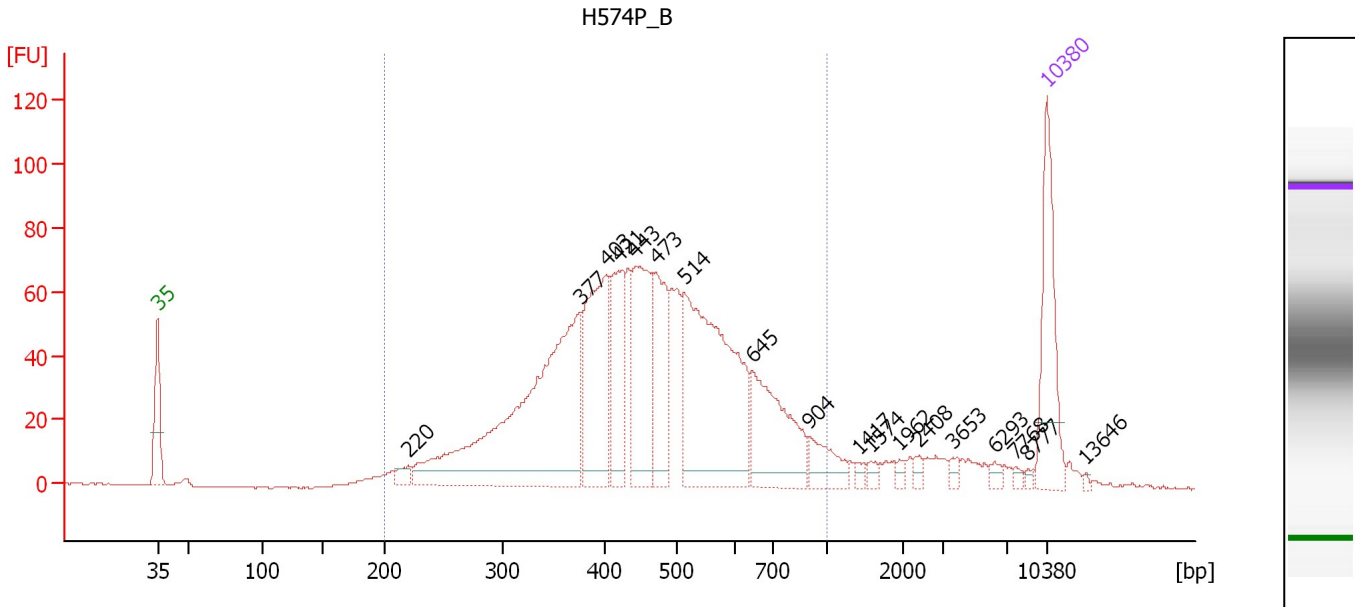
Region table for sample 6 : H574P A

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,582	489	1,107.8	4,632.9	1,305.33	94	36.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : H574P B

Number of peaks found: 18 Corr. Area 1: 1,538.4
 Noise: 0.2

Peak table for sample 7 : H574P B

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	220	12.46	85.8		62.71
3	377	372.04	1,497.0		76.25
4	403	155.00	582.6		78.31
5	421	85.23	306.9		79.31
6	443	123.69	422.7		80.59
7	473	91.26	292.5		82.26
8	514	276.65	816.0		84.43
9	645	110.65	260.0		89.78
10	904	32.24	54.0		94.29
11	1,417	4.27	4.6		98.13
12	1,574	6.13	5.9		99.08
13	1,962	4.20	3.2		101.42
14	2,408	5.08	3.2		102.92
15	3,653	5.45	2.3		105.59
16	6,293	5.59	1.3		108.93
17	7,768	3.66	0.7		110.55
18	8,777	2.67	0.5		111.50
19	10,380	75.00	10.9	Upper Marker	113.00
20	13,646	0.00	0.0		116.06

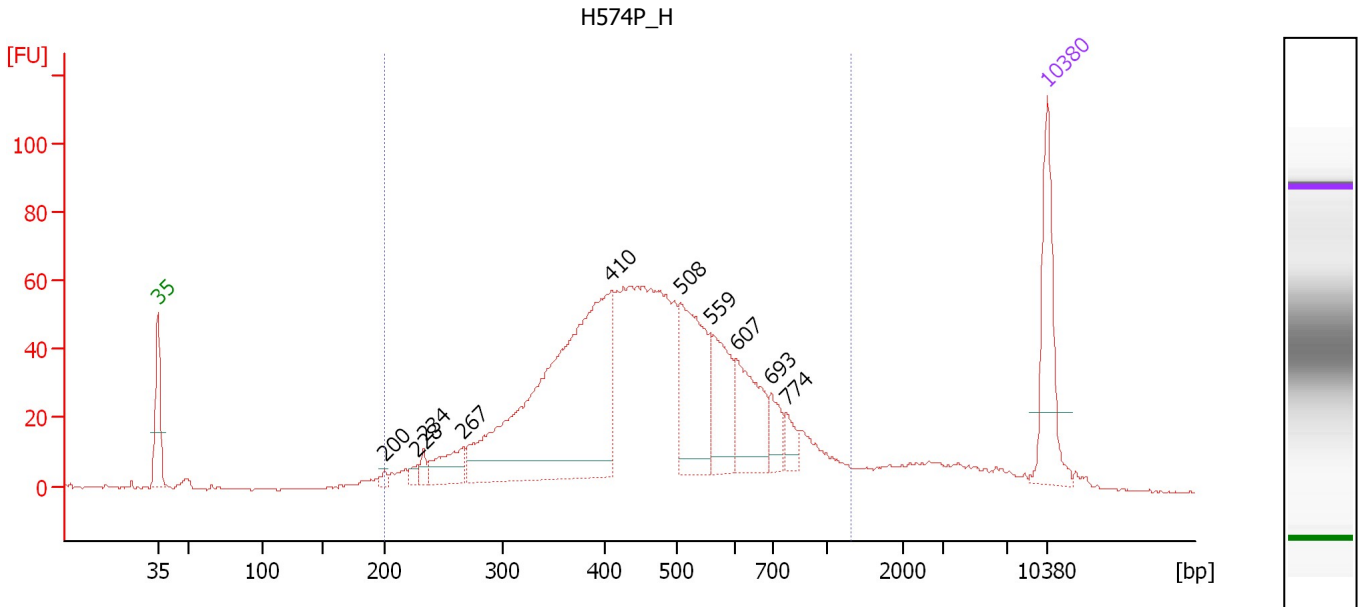
Region table for sample 7 : H574P B

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	473	1,538.4	5,244.7	1,445.09	87	30.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : H574P H

Number of peaks found: 10 Corr. Area 1: 1,384.9
 Noise: 0.4

Peak table for sample 8 : H574P H

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	200	5.61	42.5		60.85
3	228	8.87	58.9		63.44
4	234	11.49	74.6		63.95
5	267	42.47	241.0		67.05
6	410	462.47	1,708.4		78.70
7	508	134.33	400.7		84.17
8	559	80.83	219.0		86.53
9	607	79.40	198.2		88.62
10	693	25.44	55.6		91.26
11	774	16.63	32.5		92.50
12	10,380	75.00	10.9	Upper Marker	113.00

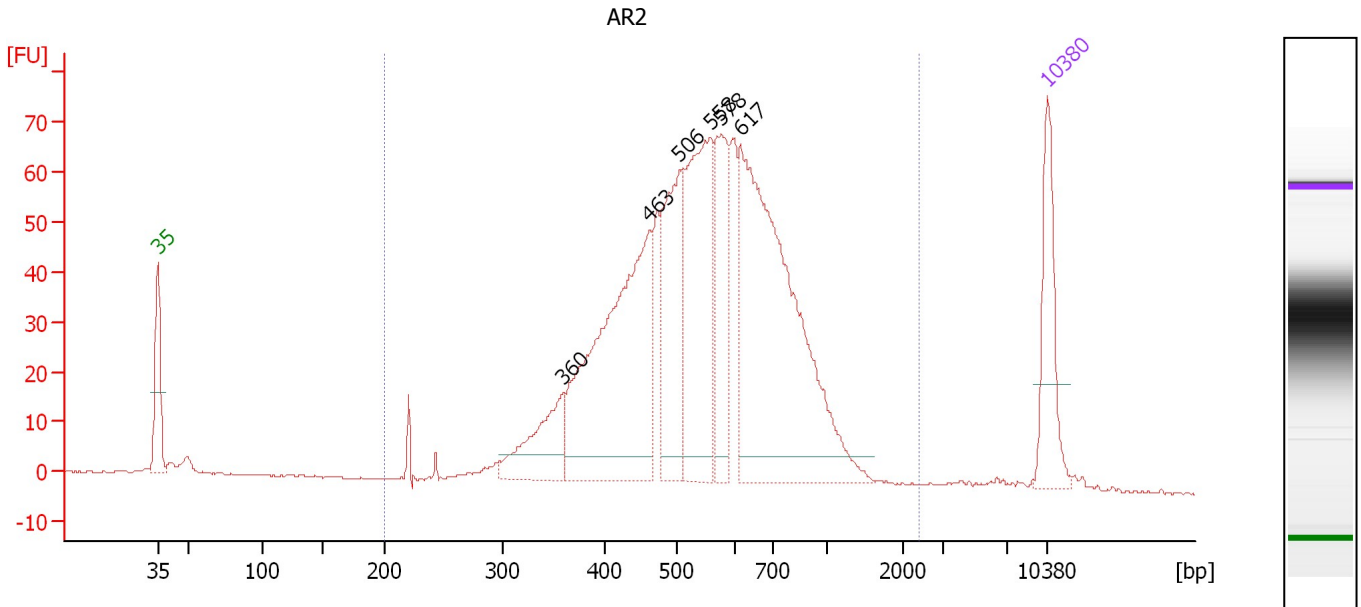
Region table for sample 8 : H574P H

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,323	483	1,384.9	5,418.7	1,493.39	89	34.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : AR2

Number of peaks found: 6 Corr. Area 1: 1,207.3
 Noise: 0.2

Peak table for sample 9 : AR2

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	360	95.61	402.3		74.93
3	463	386.73	1,265.8		81.70
4	506	170.26	509.6		84.09
5	558	240.55	653.0		86.48
6	578	116.25	304.8		87.39
7	617	473.77	1,163.4		88.93
8	10,380	75.00	10.9	Upper Marker	113.00

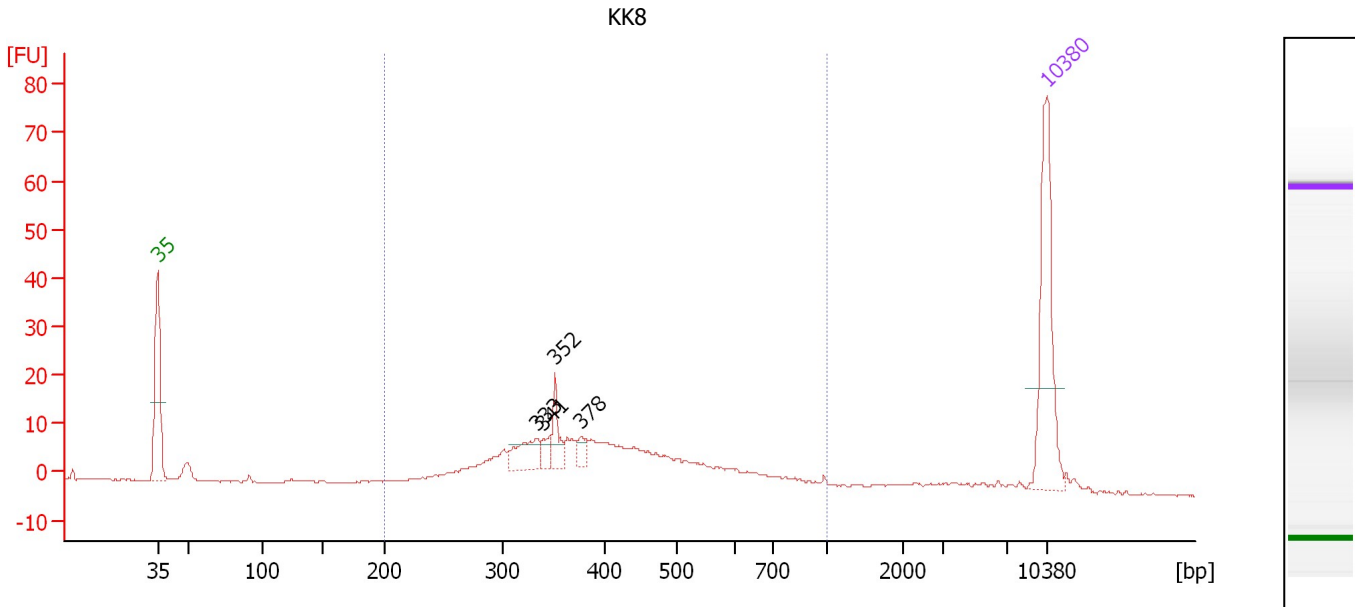
Region table for sample 9 : AR2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	2,398	577	1,207.3	5,012.9	1,693.66	97	33.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : KK8

Number of peaks found: 4 Corr. Area 1: 103.1
 Noise: 0.1

Peak table for sample 10 : KK8

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	333	26.13	118.8		72.78
3	341	9.22	41.0		73.35
4	352	19.43	83.6		74.27
5	378	7.95	31.9		76.34
6	10,380	75.00	10.9	Upper Marker	113.00

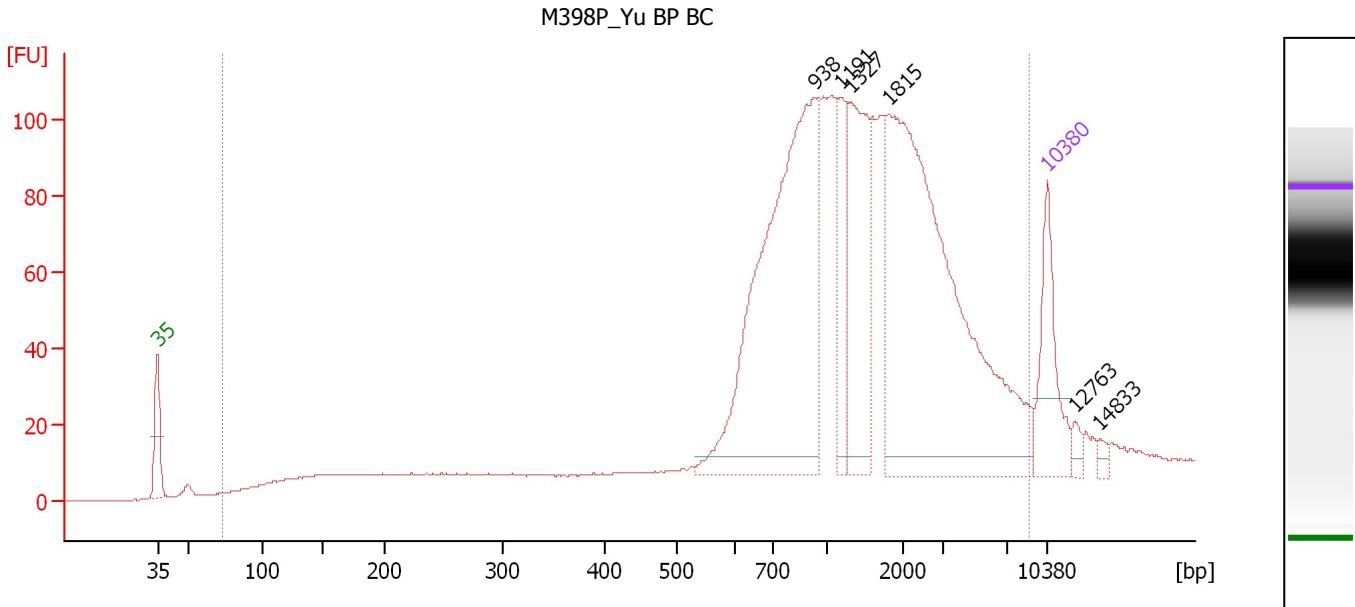
Region table for sample 10 : KK8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	399	103.1	603.3	152.63	99	18.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : M398P Yu BP BC

Number of peaks found: 6 Corr. Area 1: 1,938.8
 Noise: 0.1

Peak table for sample 11 : M398P Yu BP BC

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	938	499.15	805.9		94.76
3	1,191	72.42	92.2		96.76
4	1,327	168.87	192.8		97.59
5	1,815	522.44	436.3		100.53
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,763	0.00	0.0		115.24
8	14,833	0.00	0.0		117.18

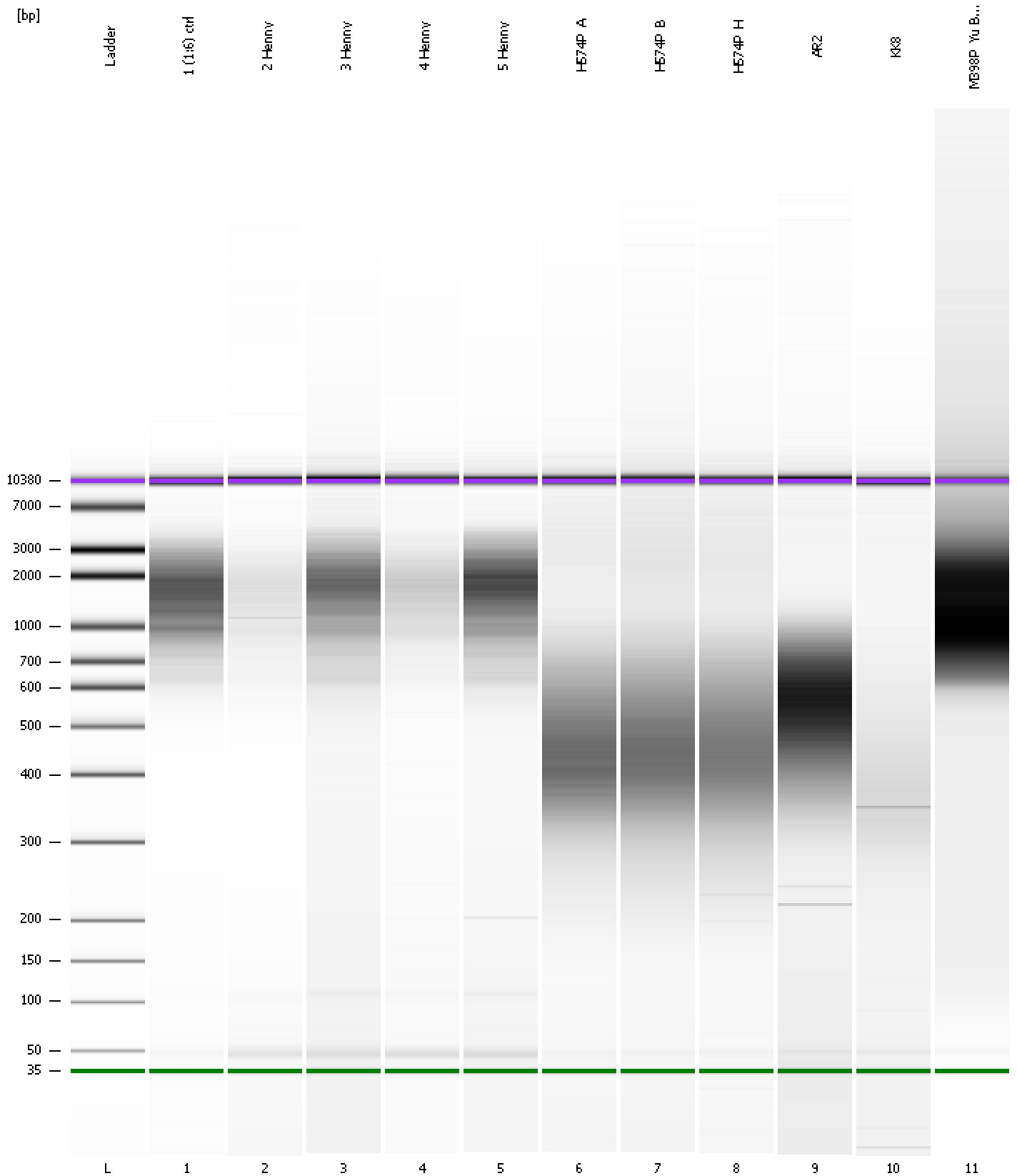
Region table for sample 11 : M398P Yu BP BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
73	8,839	1,771	1,938.8	5,044.5	2,024.51	92	90.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
Modified: 9/14/2016 3:48:02 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-09-14\2016-09-14_001.xad

Created: 9/14/2016 1:35:41 PM
 Modified: 9/14/2016 3:48:02 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		9/14/2016 2:17:01 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\2016-09-14\2016-09-14_001.xad)		Instrument	Run		9/14/2016 1:35:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/14/2016 1:35:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/14/2016 1:35:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/14/2016 1:35:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/14/2016 1:35:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/14/2016 1:35:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/14/2016 1:35:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1