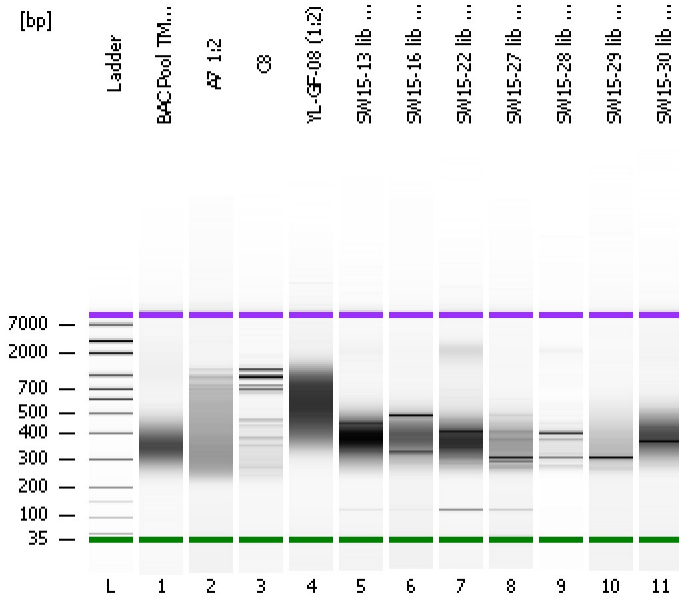


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
Modified: 7/31/2015 3:44:02 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

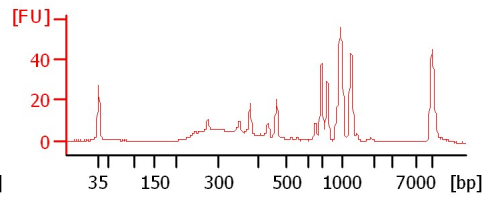
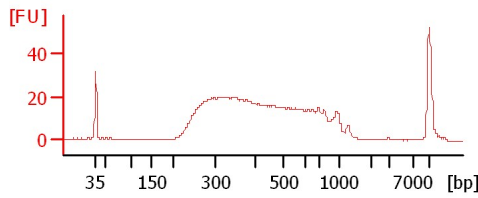
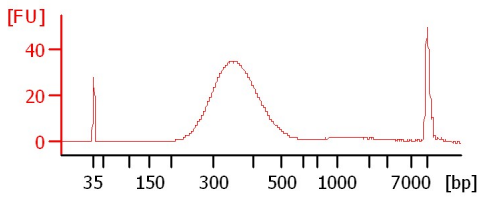
Chip Information:

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

BAC Pool TM 1:3

A7 1:2

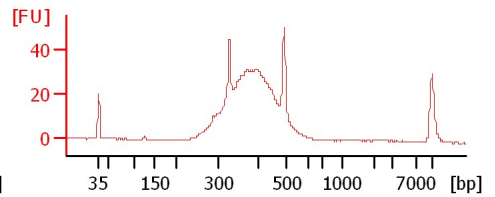
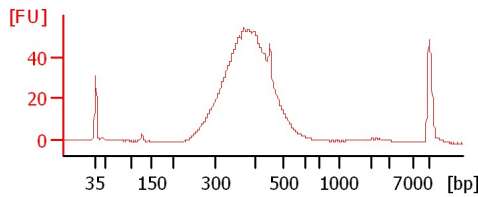
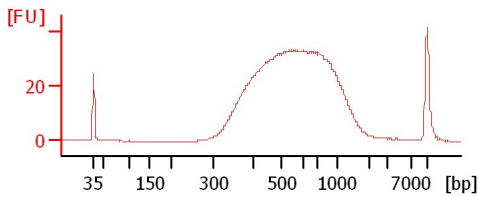
C8



YL-GF-08 (1:2)

SW15-13 lib (1:5)

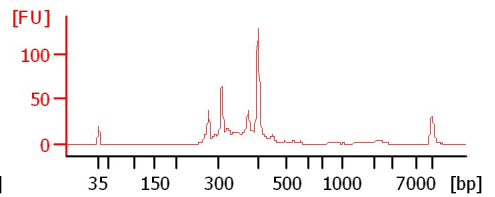
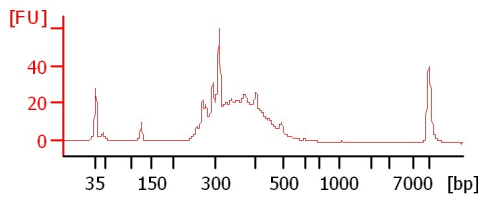
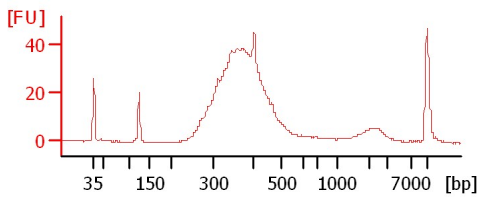
SW15-16 lib (1:6)



SW15-22 lib (1:5)

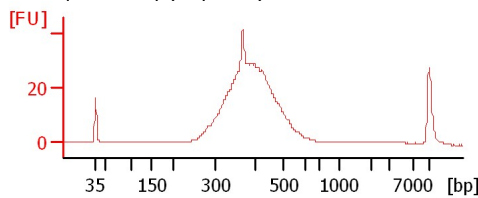
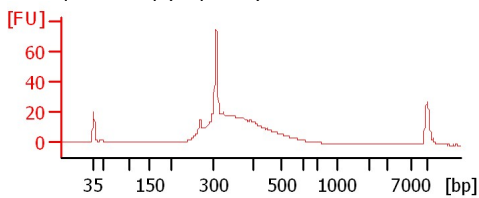
SW15-27 lib (1:2)

SW15-28 lib PCR Test 20 cyc (1:19)



SW15-29 lib (1:2)

SW15-30 lib (1:14)



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
BAC Pool TM 1:3		<input type="checkbox"/>	✓			
A7 1:2		<input type="checkbox"/>	✓			
C8		<input type="checkbox"/>	✓			
YL-GF-08 (1:2)		<input type="checkbox"/>	✓			
SW15-13 lib (1:5)	MiSeq155 Library (12 cyc PCR)	<input type="checkbox"/>	✓			
SW15-16 lib (1:6)	MiSeq155 Library (12 cyc PCR)	<input type="checkbox"/>	✓			
SW15-22 lib (1:5)	MiSeq155 Library (12 cyc PCR)	<input type="checkbox"/>	✓			
SW15-27 lib (1:2)	MiSeq155 Library (12 cyc PCR)	<input type="checkbox"/>	✓			
SW15-28 lib PCR Test 20 cyc (1:19)	MiSeq155 Library (8+12 cyc PCR)	<input type="checkbox"/>	✓			
SW15-29 lib (1:2)	MiSeq155 Library (8 cyc PCR)	<input type="checkbox"/>	✓			
SW15-30 lib (1:14)	MiSeq155 Library (8 cyc PCR)	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			
Chip Lot #				Reagent Kit Lot #		

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
Modified: 7/31/2015 3:44:02 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

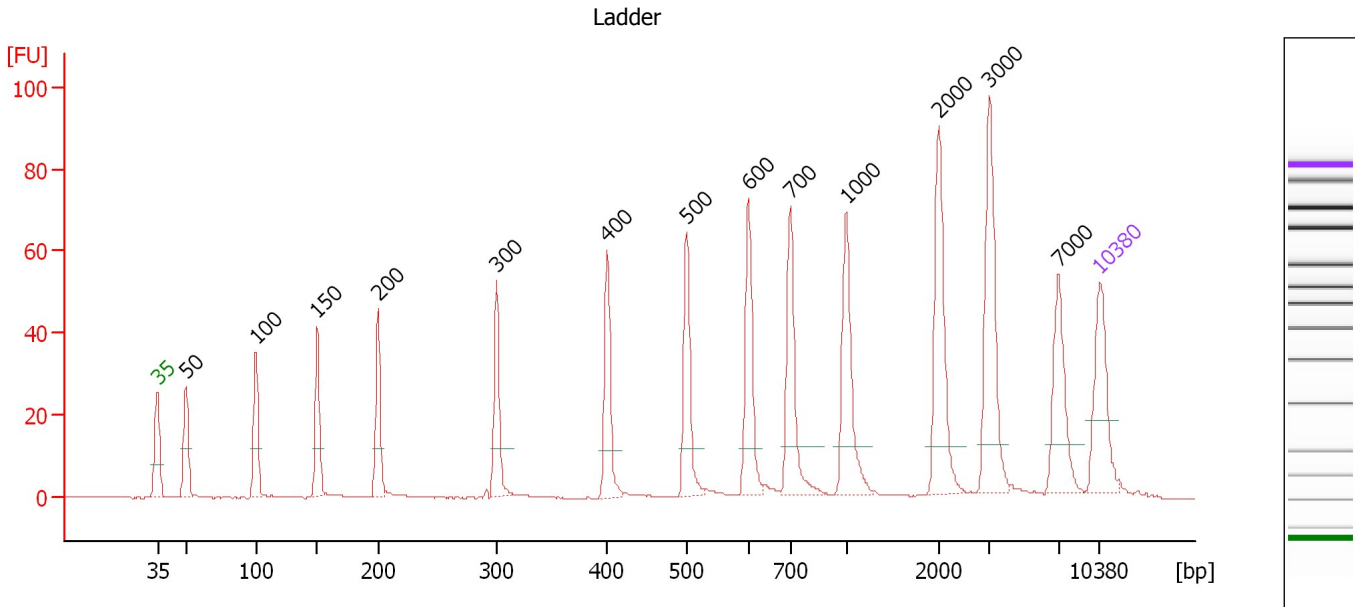
Ladder

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:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

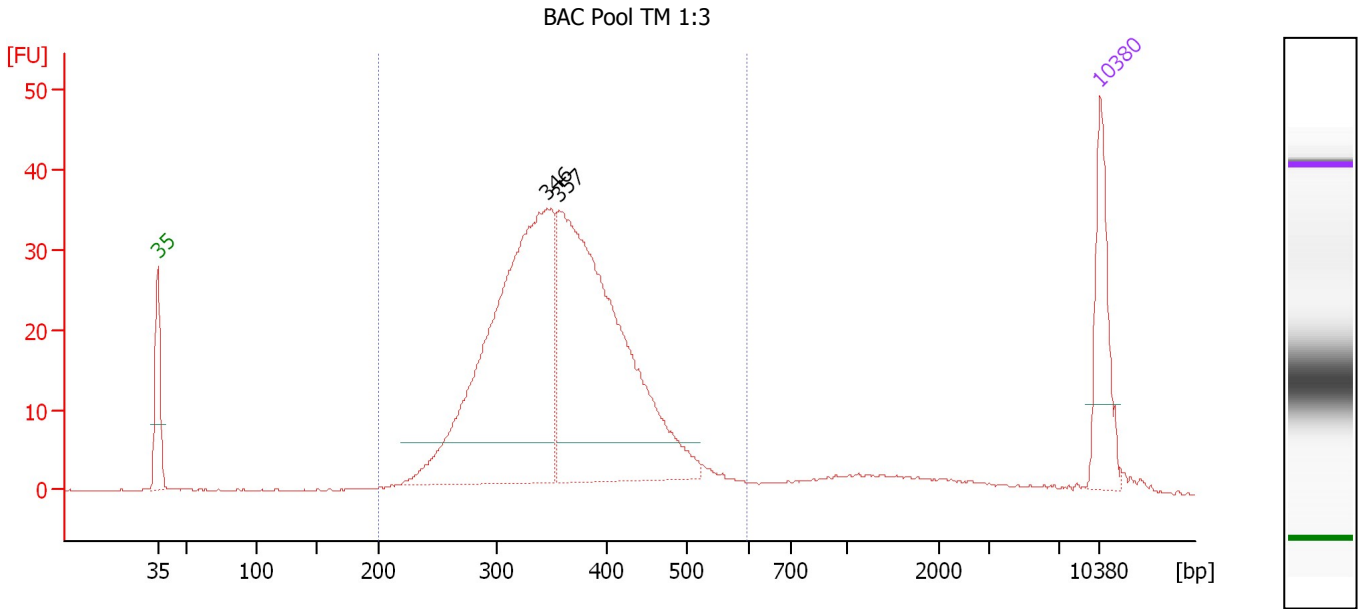
Peak table for Ladder

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	45.11
3	100	150.00	2,272.7	Ladder Peak	50.31
4	150	150.00	1,515.2	Ladder Peak	54.87
5	200	150.00	1,136.4	Ladder Peak	59.36
6	300	150.00	757.6	Ladder Peak	68.19
7	400	150.00	568.2	Ladder Peak	76.37
8	500	150.00	454.5	Ladder Peak	82.28
9	600	150.00	378.8	Ladder Peak	86.89
10	700	150.00	324.7	Ladder Peak	89.97
11	1,000	150.00	227.3	Ladder Peak	94.15
12	2,000	150.00	113.6	Ladder Peak	101.03
13	3,000	150.00	75.8	Ladder Peak	104.76
14	7,000	150.00	32.5	Ladder Peak	109.91
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : BAC Pool TM 1:3

Number of peaks found: 2 Corr. Area 1: 558.0
 Noise: 0.1

Peak table for sample 1 : BAC Pool TM 1:3

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	346	628.17	2,752.9		71.94
3	357	609.35	2,585.9		72.86
4	10,380	75.00	10.9	Upper Marker	113.00

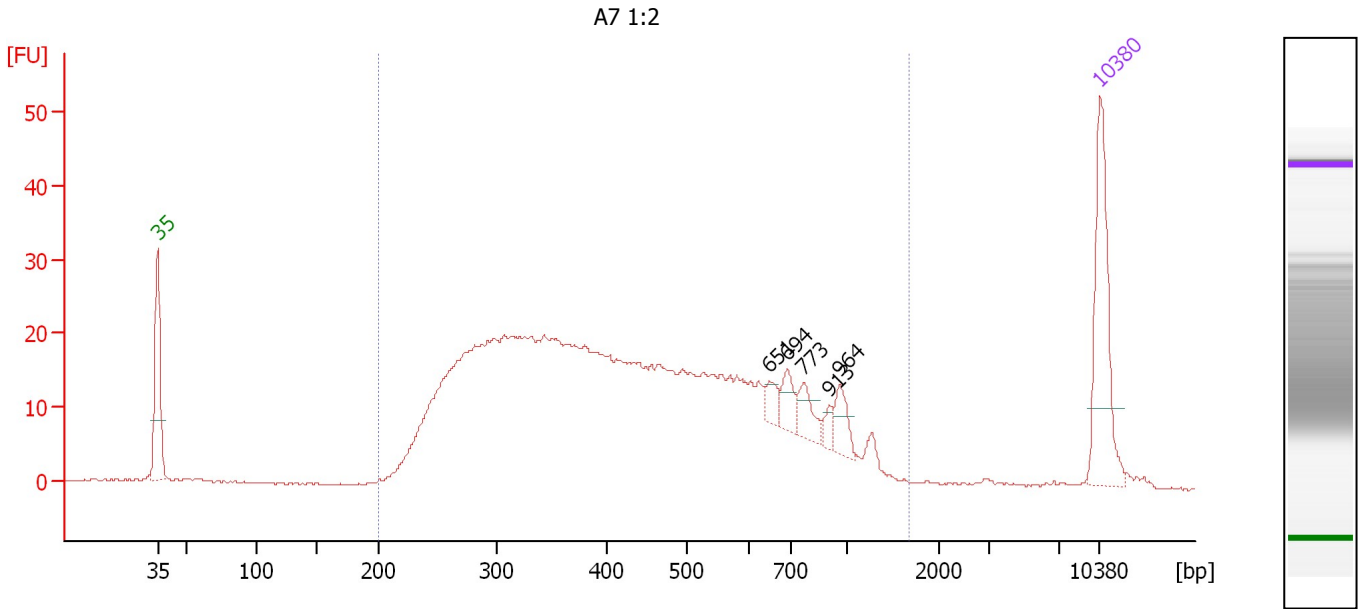
Region table for sample 1 : BAC Pool TM 1:3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	361	596	558.0	6,021.5	91	17.7	1,378.67

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : A7 1:2

Number of peaks found: 5 Corr. Area 1: 681.9
 Noise: 0.1

Peak table for sample 2 : A7 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	651	11.67	27.2		88.45
3	694	17.24	37.7		89.78
4	773	19.05	37.3		90.99
5	913	7.58	12.6		92.93
6	964	18.28	28.7		93.65
7	10,380	75.00	10.9	Upper Marker	113.00

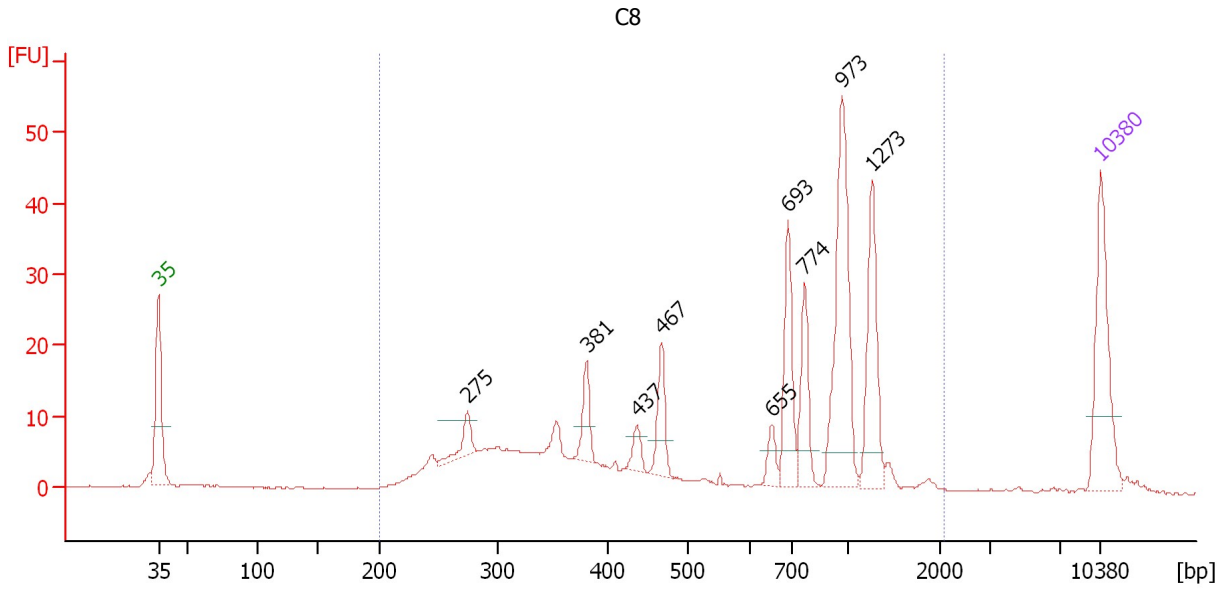
Region table for sample 2 : A7 1:2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	480	1,689	681.9	5,789.4	96	47.3	1,460.88

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : C8

Number of peaks found: 9 Corr. Area 1: 344.7
 Noise: 0.1

Peak table for sample 3 : C8

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	275	22.97	126.7		65.96
3	381	29.45	117.2		74.81
4	437	14.63	50.8		78.54
5	467	37.13	120.4		80.34
6	655	15.38	35.6		88.58
7	693	66.92	146.3		89.76
8	774	48.38	94.7		91.00
9	973	138.99	216.5		93.77
10	1,273	75.79	90.2		96.02
11	10,380	75.00	10.9	Upper Marker	113.00

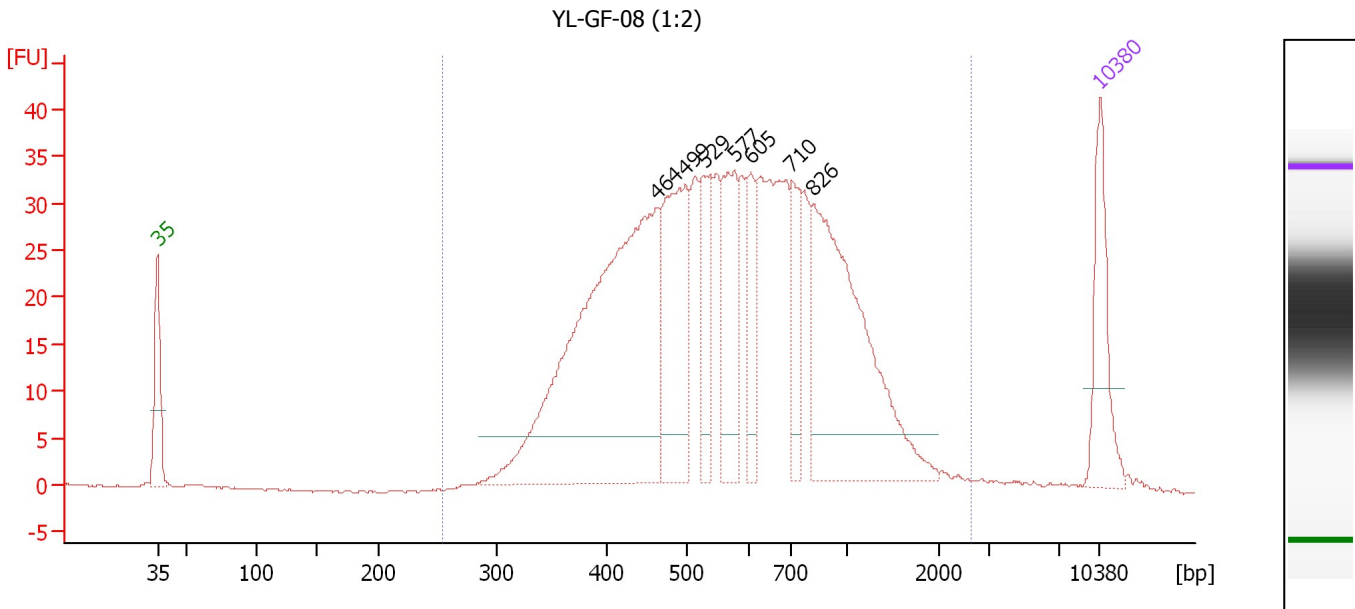
Region table for sample 3 : C8

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	713	2,088	344.7	2,814.2	92	52.1	868.02

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : YL-GF-08 (1:2)

Number of peaks found: 7 Corr. Area 1: 830.2
 Noise: 0.1

Peak table for sample 4 : YL-GF-08 (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	464	633.79	2,071.2		80.13
3	499	201.59	612.3		82.21
4	529	85.07	243.9		83.59
5	577	116.72	306.3		85.84
6	605	66.49	166.4		87.05
7	710	64.80	138.4		90.11
8	826	341.64	626.8		91.72
9	10,380	75.00	10.9	Upper Marker	113.00

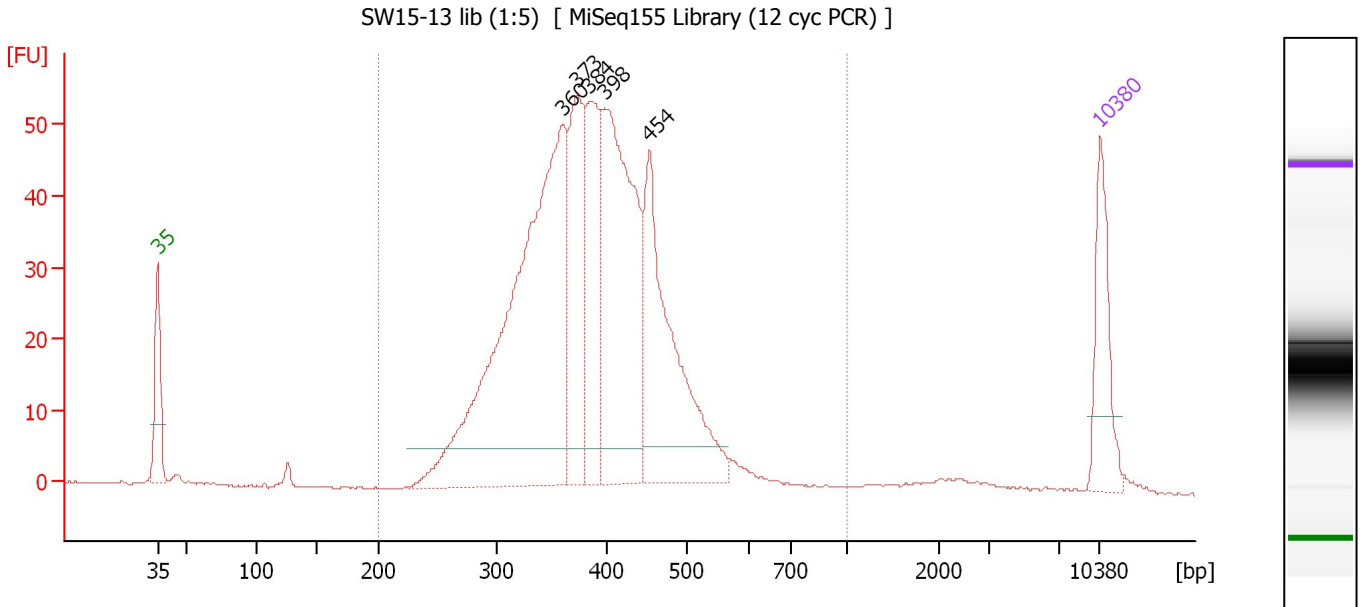
Region table for sample 4 : YL-GF-08 (1:2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
255	656	2,655	830.2	6,022.5	98	48.5	2,134.99

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SW15-13 lib (1:5)

Number of peaks found: 5 Corr. Area 1: 824.3
 Noise: 0.1

Peak table for sample 5 : SW15-13 lib (1:5)

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	360	725.37	3,053.9		73.09
3	373	200.90	816.5		74.15
4	384	161.21	635.6		75.09
5	398	390.41	1,486.4		76.21
6	454	303.65	1,013.6		79.56
7	10,380	75.00	10.9	Upper Marker	113.00

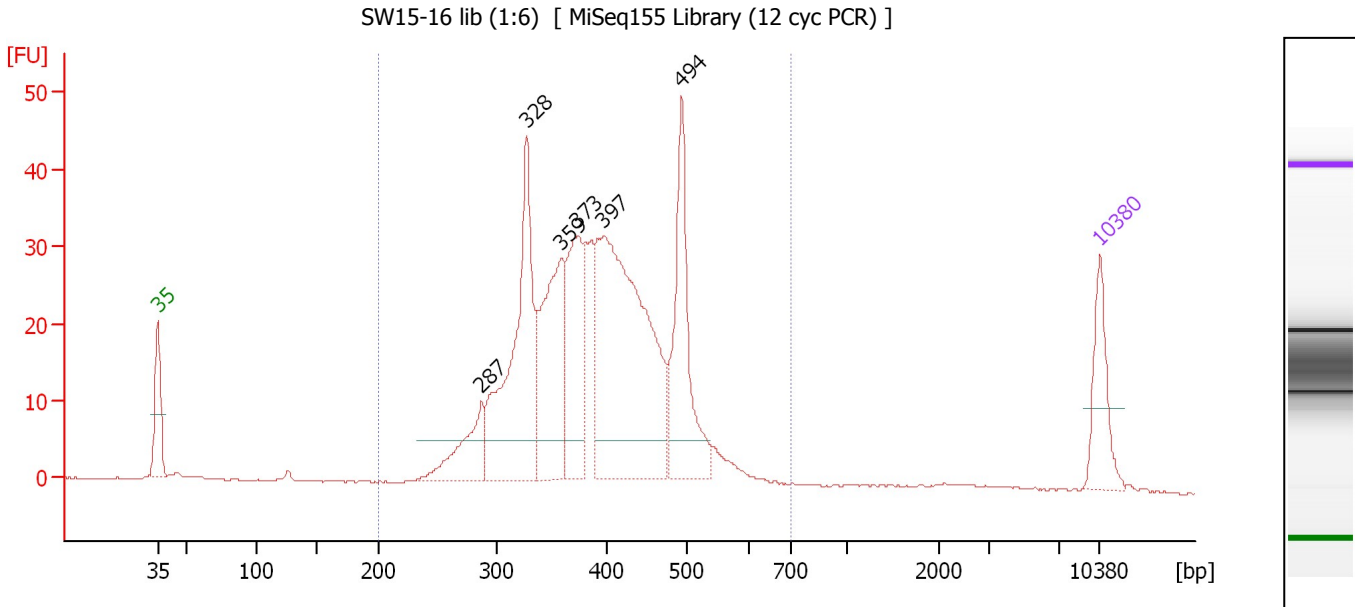
Region table for sample 5 : SW15-13 lib (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	392	1,000	824.3	7,665.8	97	18.6	1,899.40

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : SW15-16 lib (1:6)

Number of peaks found: 6 Corr. Area 1: 547.0
 Noise: 0.1

Peak table for sample 6 : SW15-16 lib (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	287	110.56	583.2		67.07
3	328	386.43	1,787.1		70.45
4	359	260.54	1,100.1		73.01
5	373	199.15	808.1		74.20
6	397	603.33	2,304.8		76.10
7	494	242.62	744.3		81.92
8	10,380	75.00	10.9	Upper Marker	113.00

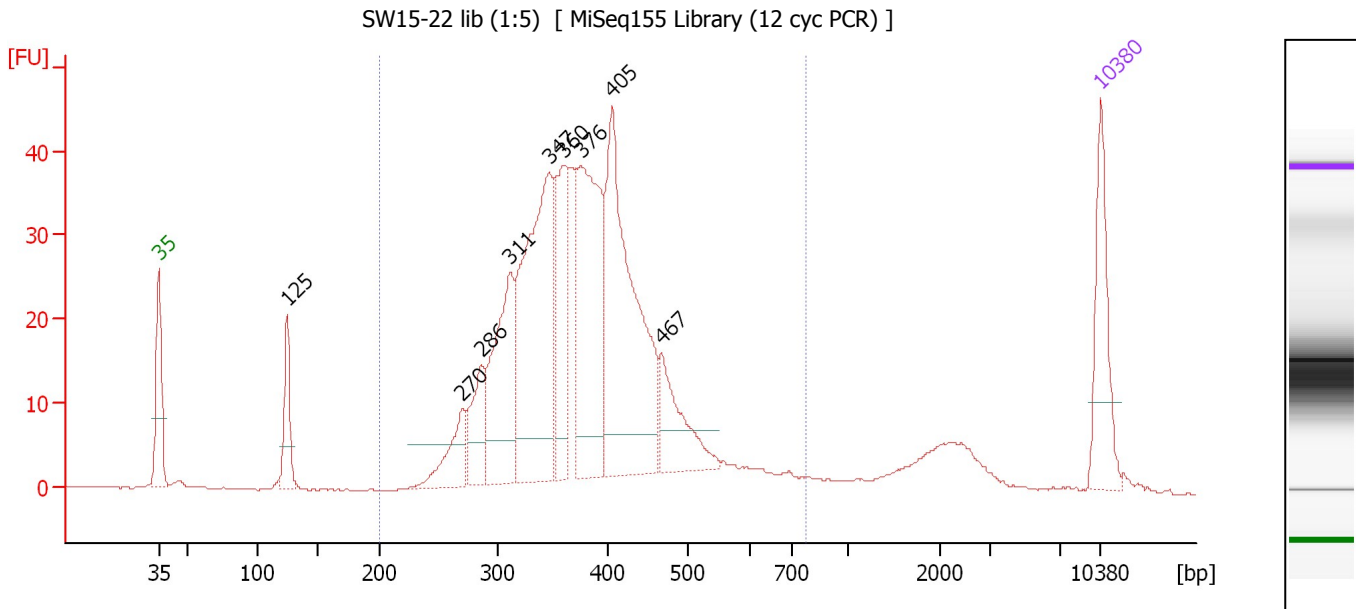
Region table for sample 6 : SW15-16 lib (1:6)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	396	707	547.0	8,206.8	97	18.1	2,054.82

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : SW15-22 lib (1:5)

Number of peaks found: 9 Corr. Area 1: 609.8
 Noise: 0.1

Peak table for sample 7 : SW15-22 lib (1:5)

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	125	66.11	804.0		52.55
3	270	59.69	334.9		65.55
4	286	69.34	366.7		67.00
5	311	170.62	830.6		69.11
6	347	315.29	1,377.8		72.02
7	360	119.28	502.0		73.10
8	376	253.44	1,022.5		74.37
9	405	331.85	1,241.5		76.67
10	467	85.30	276.5		80.36
11	10,380	75.00	10.9	Upper Marker	113.00

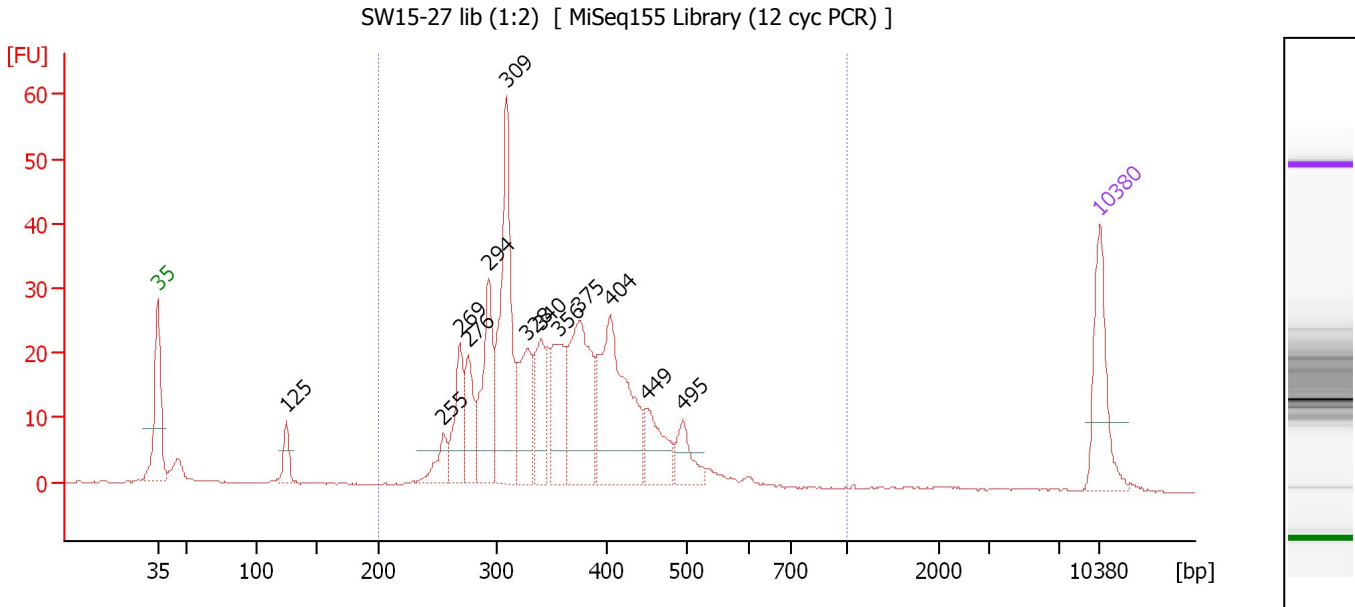
Region table for sample 7 : SW15-22 lib (1:5)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	383	783	609.8	6,956.8	89	19.9	1,680.15

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : SW15-27 lib (1:2)

Number of peaks found: 13 Corr. Area 1: 476.5
 Noise: 0.1

Peak table for sample 8 : SW15-27 lib (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	125	31.50	382.0		52.58
3	255	36.20	215.0		64.23
4	269	79.23	446.5		65.44
5	276	64.79	355.1		66.11
6	294	128.07	660.9		67.63
7	309	225.11	1,105.0		68.90
8	328	101.55	469.2		70.48
9	340	80.89	360.7		71.45
10	356	93.22	396.6		72.78
11	375	167.53	677.5		74.30
12	404	207.79	779.5		76.60
13	449	62.74	211.7		79.27
14	495	38.92	119.1		82.00
15	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 8 : SW15-27 lib (1:2)

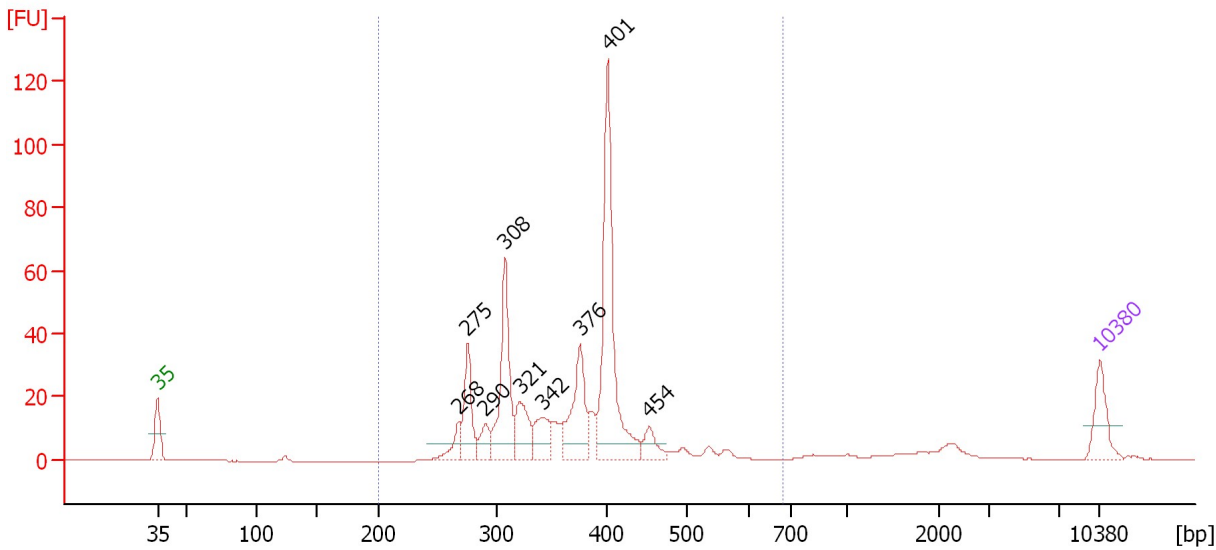
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	363	1,000	476.5	6,213.0	93	21.6	1,410.89

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electropherogram Summary Continued ...

SW15-28 lib PCR Test 20 cyc (1:19) [MiSeq155 Library (8+12 cyc PCR)]



Overall Results for sample 9 : SW15-28 lib PCR Test 20 cyc (1:19)

Number of peaks found: 9 Corr. Area 1: 423.1
 Noise: 0.1

Peak table for sample 9 : SW15-28 lib PCR Test 20 cyc (1:19)

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	268	56.25	317.6		65.40
3	275	153.36	844.2		66.01
4	290	59.69	311.3		67.35
5	308	284.93	1,403.5		68.82
6	321	118.97	561.5		69.91
7	342	92.98	412.0		71.62
8	376	206.55	831.8		74.43
9	401	514.52	1,943.3		76.44
10	454	53.06	177.1		79.56
11	10,380	75.00	10.9	Upper Marker	113.00

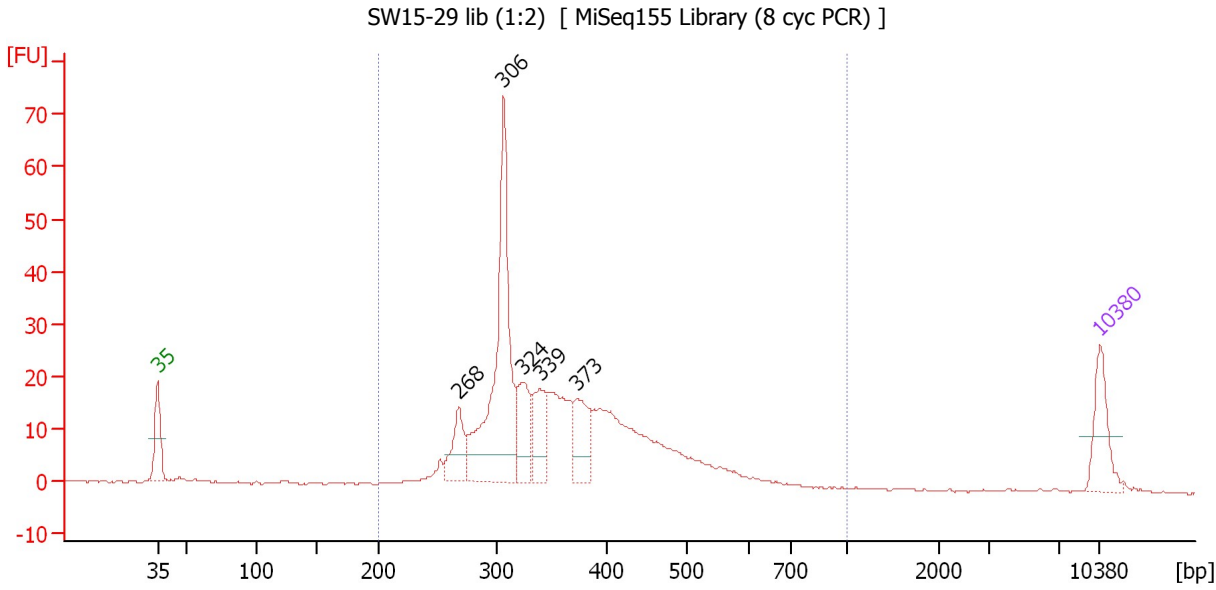
Region table for sample 9 : SW15-28 lib PCR Test 20 cyc (1:19)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	368	684	423.1	7,414.0	89	17.8	1,733.11

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : SW15-29 lib (1:2)

Number of peaks found: 5 Corr. Area 1: 398.4
 Noise: 0.1

Peak table for sample 10 : SW15-29 lib (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	268	91.74	518.1		65.40
3	306	507.15	2,509.6		68.70
4	324	106.24	496.6		70.17
5	339	92.27	412.3		71.39
6	373	98.26	398.6		74.21
7	10,380	75.00	10.9	Upper Marker	113.00

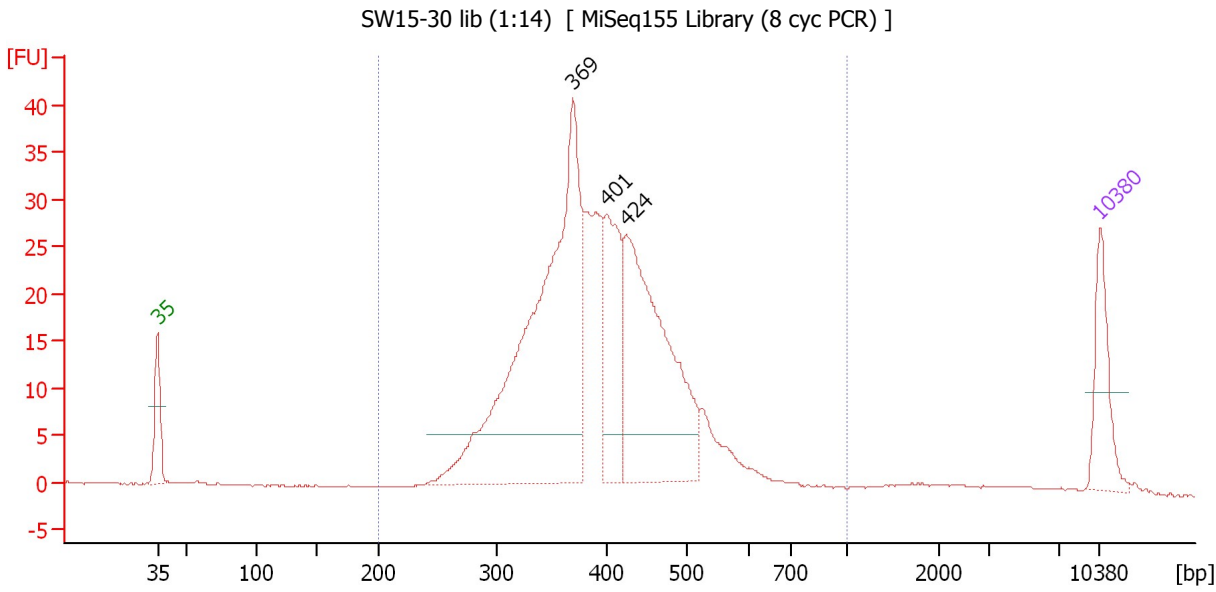
Region table for sample 10 : SW15-29 lib (1:2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	369	1,000	398.4	7,207.6	96	24.5	1,645.32

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
 Modified: 7/31/2015 3:44:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : SW15-30 lib (1:14)

Number of peaks found: 3 Corr. Area 1: 454.5
 Noise: 0.1

Peak table for sample 11 : SW15-30 lib (1:14)

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	369	781.20	3,207.8		73.84
3	401	182.41	689.4		76.43
4	424	441.53	1,578.3		77.78
5	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : SW15-30 lib (1:14)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	402	1,000	454.5	7,118.9	97	19.4	1,808.37

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-31\2015-07-31_004.xad

Created: 7/31/2015 2:27:52 PM
Modified: 7/31/2015 3:44:02 PM

Gel Image

