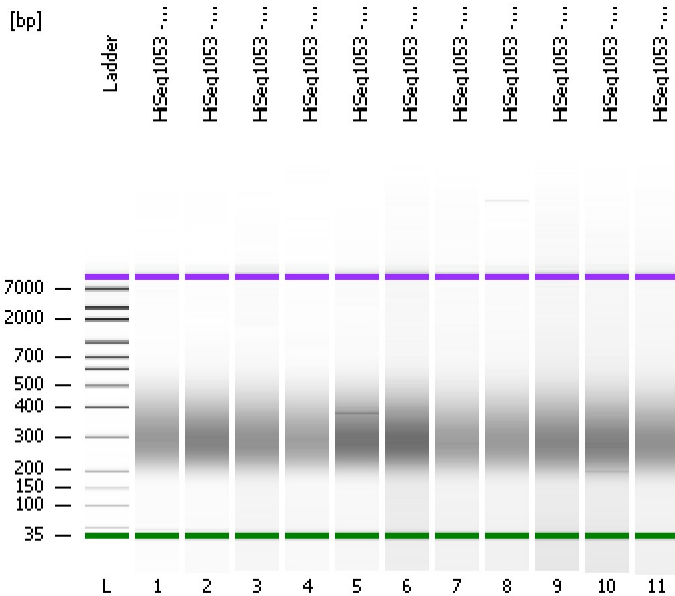


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
Modified: 9/14/2017 12:20:39 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

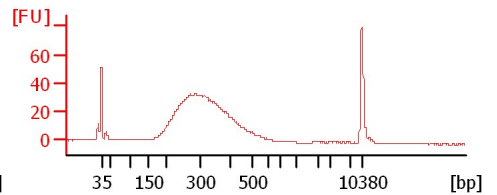
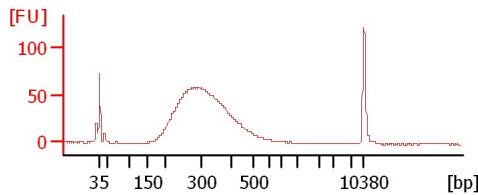
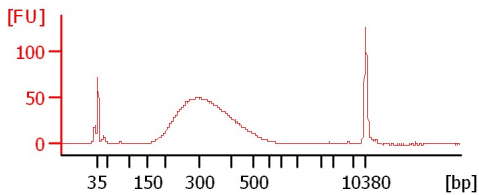
Chip Information:

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

HiSeq1053 - 1 library

HiSeq1053 - 2 library

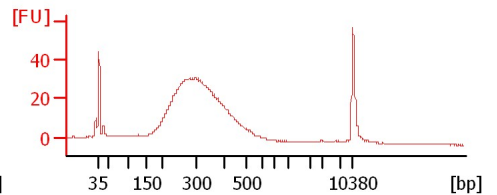
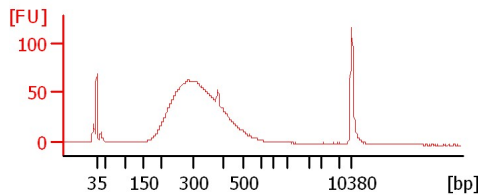
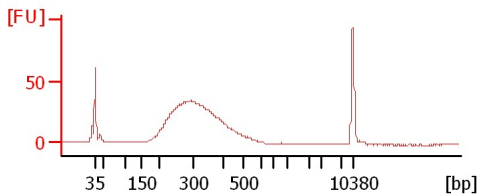
HiSeq1053 - 3 library



HiSeq1053 - 4 library

HiSeq1053 - 5 library

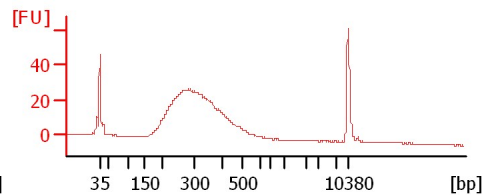
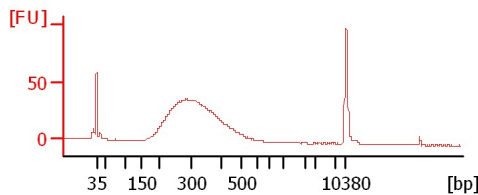
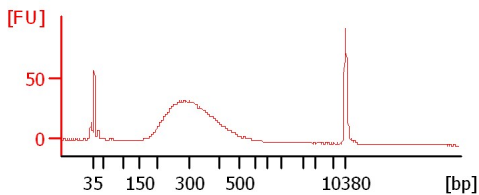
HiSeq1053 - 6 library



HiSeq1053 - 7 library

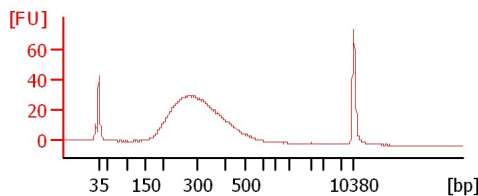
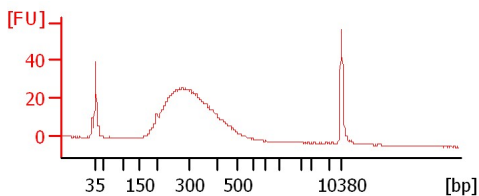
HiSeq1053 - 8 library

HiSeq1053 - 9 library



HiSeq1053 - 10 library

HiSeq1053 - 11 library



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HiSeq1053 - 1 library		<input type="checkbox"/>	✓			
HiSeq1053 - 2 library		<input type="checkbox"/>	✓			
HiSeq1053 - 3 library		<input type="checkbox"/>	✓			
HiSeq1053 - 4 library		<input type="checkbox"/>	✓			
HiSeq1053 - 5 library		<input type="checkbox"/>	✓			
HiSeq1053 - 6 library		<input type="checkbox"/>	✓			
HiSeq1053 - 7 library		<input type="checkbox"/>	✓			
HiSeq1053 - 8 library		<input type="checkbox"/>	✓			
HiSeq1053 - 9 library		<input type="checkbox"/>	✓			
HiSeq1053 - 10 library		<input type="checkbox"/>	✓			
HiSeq1053 - 11 library		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

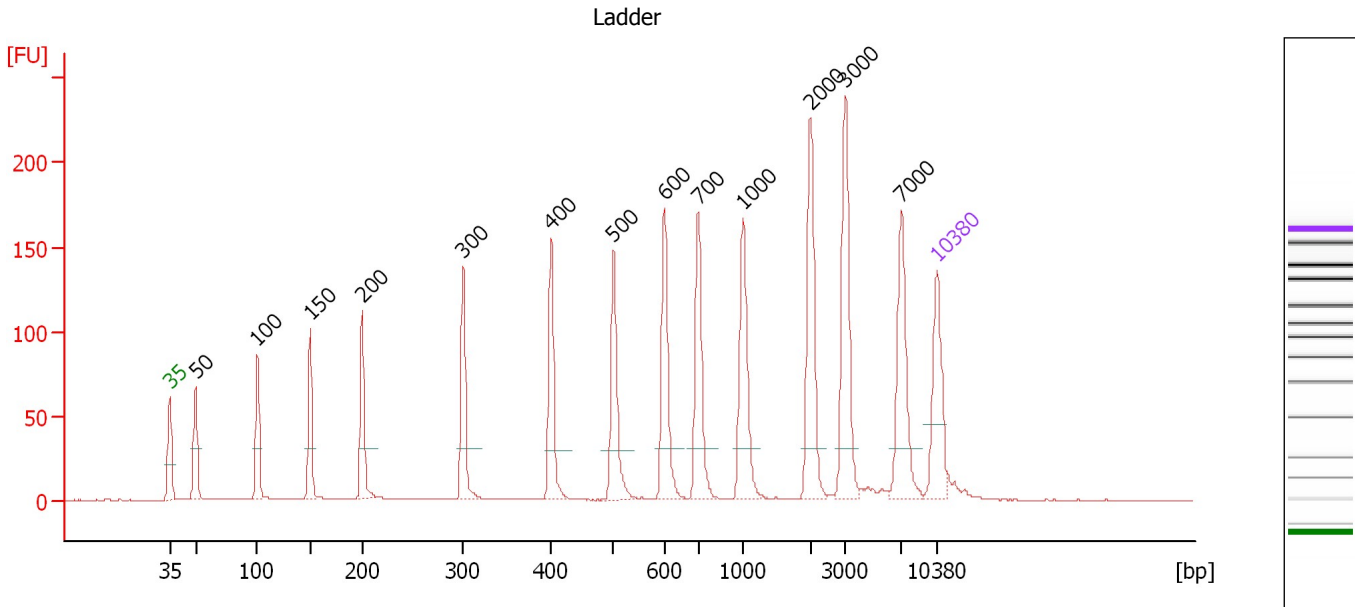
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

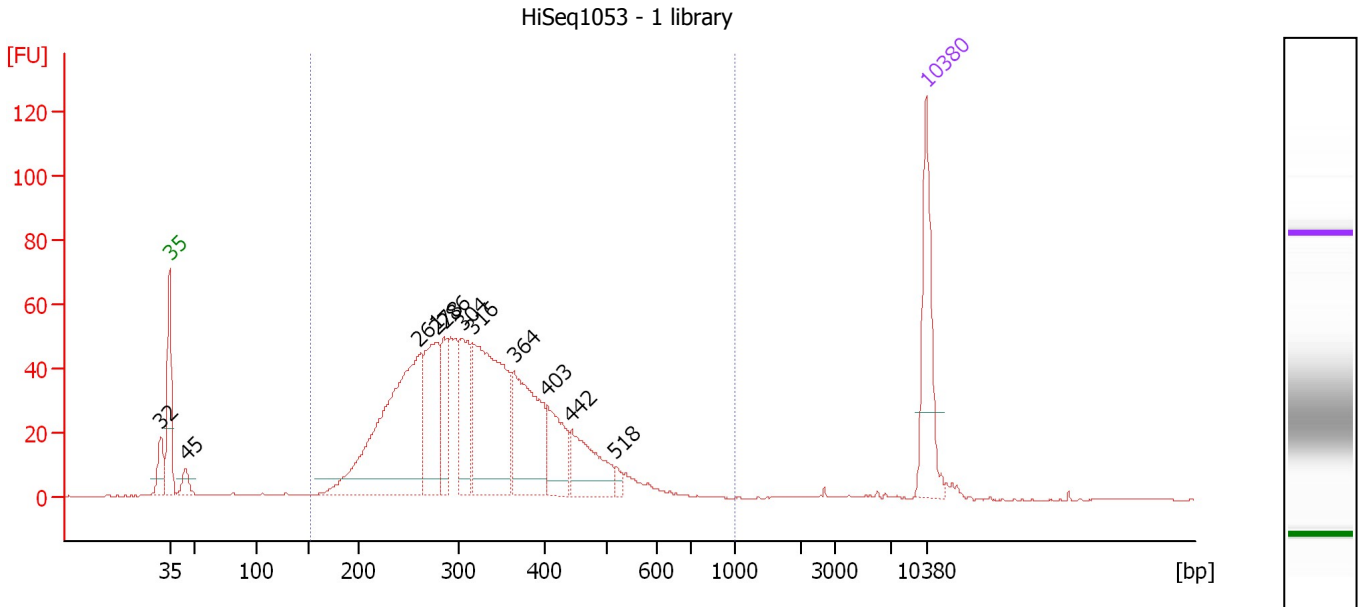
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.98
4	150	150.00	1,515.2	Ladder Peak	55.79
5	200	150.00	1,136.4	Ladder Peak	60.56
6	300	150.00	757.6	Ladder Peak	69.75
7	400	150.00	568.2	Ladder Peak	77.78
8	500	150.00	454.5	Ladder Peak	83.47
9	600	150.00	378.8	Ladder Peak	88.09
10	700	150.00	324.7	Ladder Peak	91.21
11	1,000	150.00	227.3	Ladder Peak	95.29
12	2,000	150.00	113.6	Ladder Peak	101.42
13	3,000	150.00	75.8	Ladder Peak	104.63
14	7,000	150.00	32.5	Ladder Peak	109.74
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : HiSeq1053 - 1 library

Number of peaks found: 11 Corr. Area 1: 1,208.3
 Noise: 0.1

Peak table for sample 1 : HiSeq1053 - 1 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.21
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	21.36	727.1		44.48
4	261	337.84	1,963.9		66.14
5	278	129.14	704.3		67.71
6	286	56.10	297.4		68.45
7	304	84.10	419.0		70.08
8	316	245.66	1,178.8		71.02
9	364	145.61	606.6		74.87
10	403	65.07	244.4		77.98
11	442	72.71	249.0		80.20
12	518	7.34	21.5		84.29
13	10,380	75.00	10.9	Upper Marker	113.00

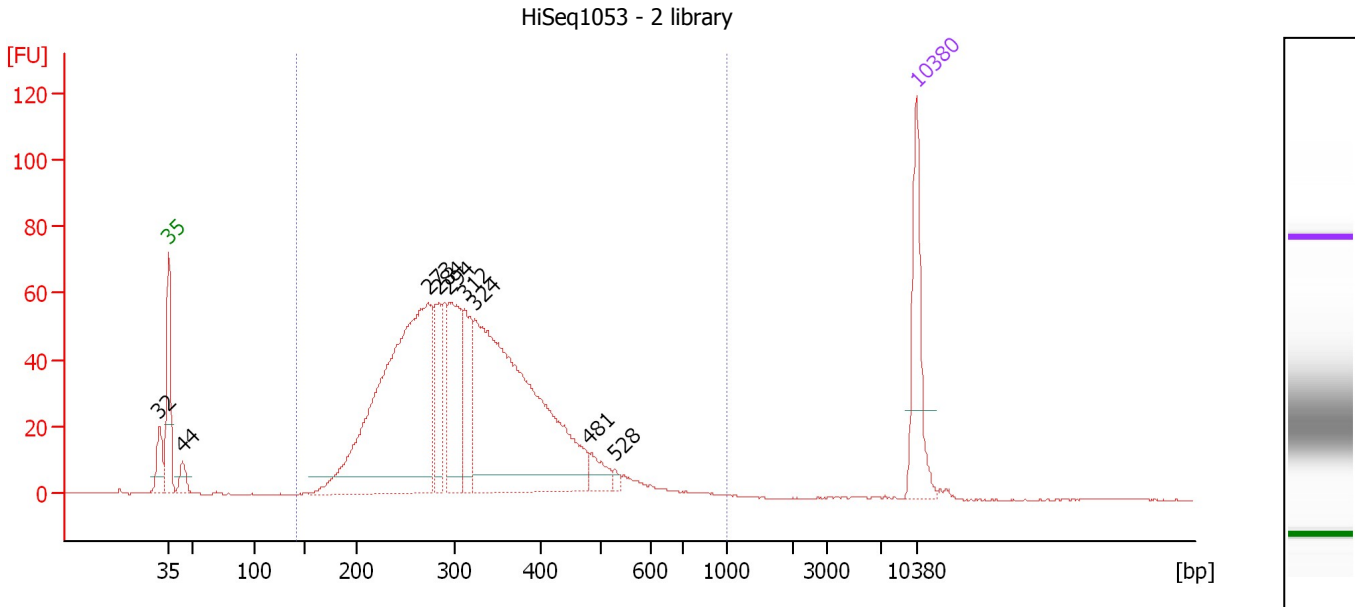
Region table for sample 1 : HiSeq1053 - 1 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
153	1,000	329	1,208.3	6,613.8	1,310.50	93	26.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HiSeq1053 - 2 library

Number of peaks found: 9 Corr. Area 1: 1,362.8
 Noise: 0.2

Peak table for sample 2 : HiSeq1053 - 2 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.15
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	24.40	846.9		44.35
4	273	584.75	3,242.1		67.30
5	284	71.42	381.6		68.25
6	294	138.12	712.0		69.19
7	312	84.85	412.5		70.69
8	324	557.54	2,606.5		71.69
9	481	24.01	75.6		82.42
10	528	4.96	14.2		84.76
11	10,380	75.00	10.9	Upper Marker	113.00

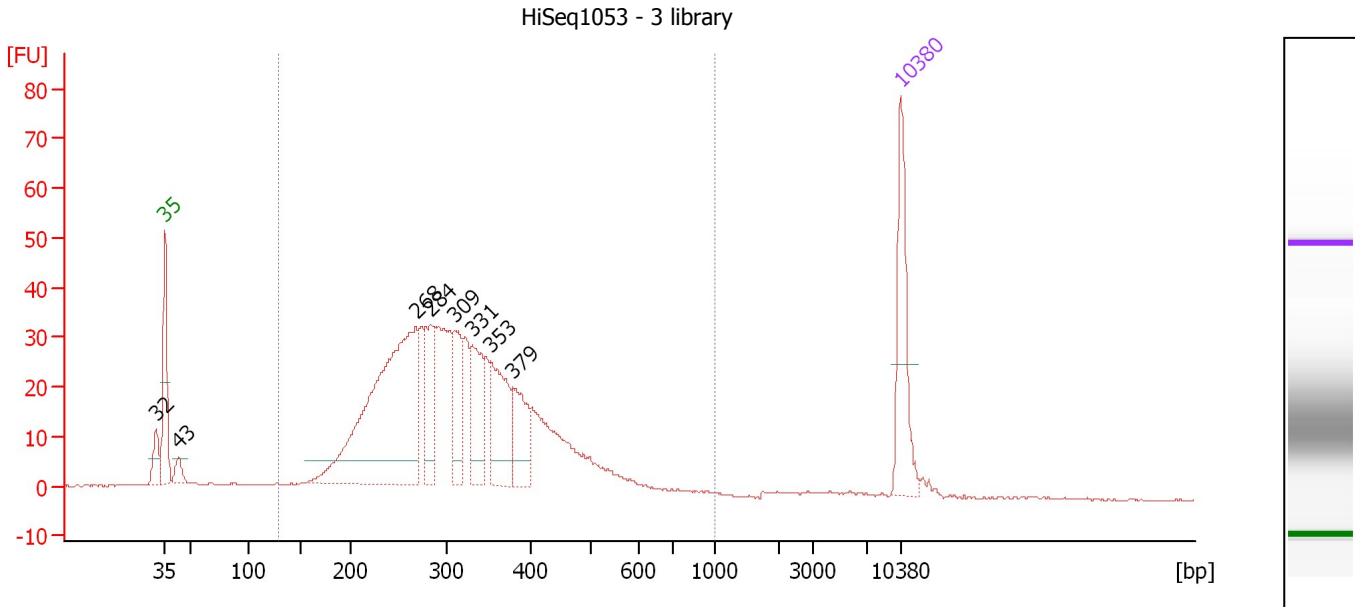
Region table for sample 2 : HiSeq1053 - 2 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
142	1,000	324	1,362.8	8,219.7	1,602.17	96	28.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : HiSeq1053 - 3 library

Number of peaks found: 8 Corr. Area 1: 805.5
 Noise: 0.2

Peak table for sample 3 : HiSeq1053 - 3 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.14
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	19.94	700.2		44.27
4	268	419.21	2,367.3		66.84
5	284	77.34	413.0		68.26
6	309	66.12	324.0		70.49
7	331	77.43	354.8		72.22
8	353	99.44	427.1		73.99
9	379	62.63	250.6		76.07
10	10,380	75.00	10.9	Upper Marker	113.00

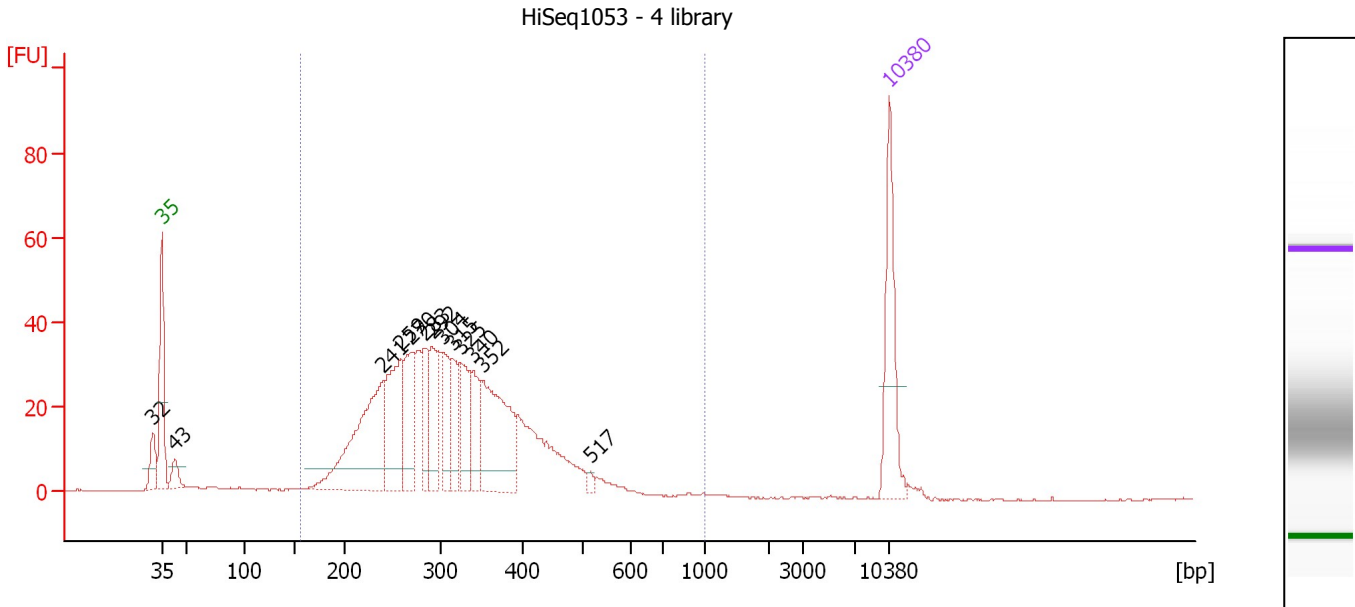
Region table for sample 3 : HiSeq1053 - 3 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
129	1,000	322	805.5	6,953.3	1,334.17	93	28.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : HiSeq1053 - 4 library

Number of peaks found: 13 Corr. Area 1: 784.7
 Noise: 0.2

Peak table for sample 4 : HiSeq1053 - 4 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.13
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	25.17	888.7		44.23
4	241	200.92	1,265.0		64.30
5	259	123.90	726.2		65.94
6	270	80.36	450.5		67.02
7	283	50.42	269.9		68.20
8	292	72.34	375.4		69.02
9	304	56.74	283.1		70.05
10	315	46.52	223.7		70.97
11	325	58.80	274.4		71.74
12	340	52.58	234.3		72.97
13	352	142.51	614.2		73.89
14	517	4.70	13.8		84.26
15	10,380	75.00	10.9	Upper Marker	113.00

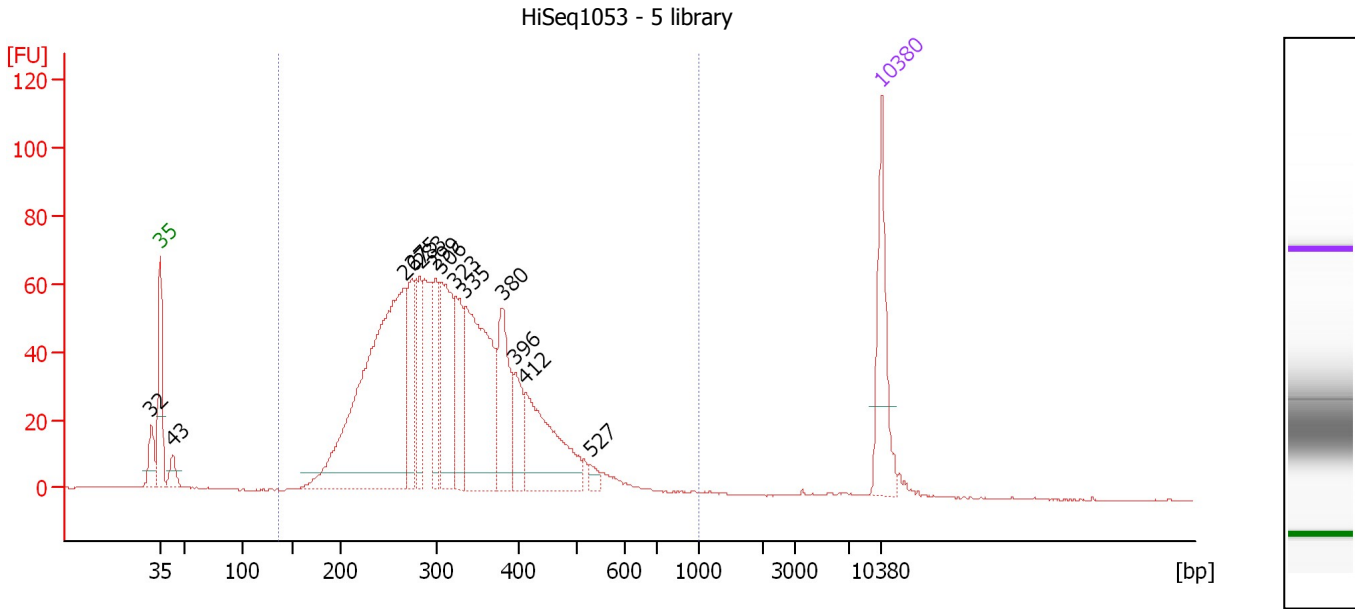
Region table for sample 4 : HiSeq1053 - 4 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
156	1,000	319	784.7	6,006.6	1,163.70	93	25.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HiSeq1053 - 5 library

Number of peaks found: 13 Corr. Area 1: 1,470.5
 Noise: 0.2

Peak table for sample 5 : HiSeq1053 - 5 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.12
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	24.79	880.9		44.19
4	267	535.90	3,044.2		66.70
5	275	76.48	422.0		67.42
6	283	76.20	407.9		68.20
7	299	72.68	367.9		69.70
8	306	143.53	711.3		70.21
9	323	81.45	381.9		71.61
10	335	245.48	1,109.0		72.59
11	380	100.23	399.8		76.16
12	396	51.44	196.8		77.46
13	412	137.73	507.0		78.44
14	527	9.32	26.8		84.70
15	10,380	75.00	10.9	Upper Marker	113.00

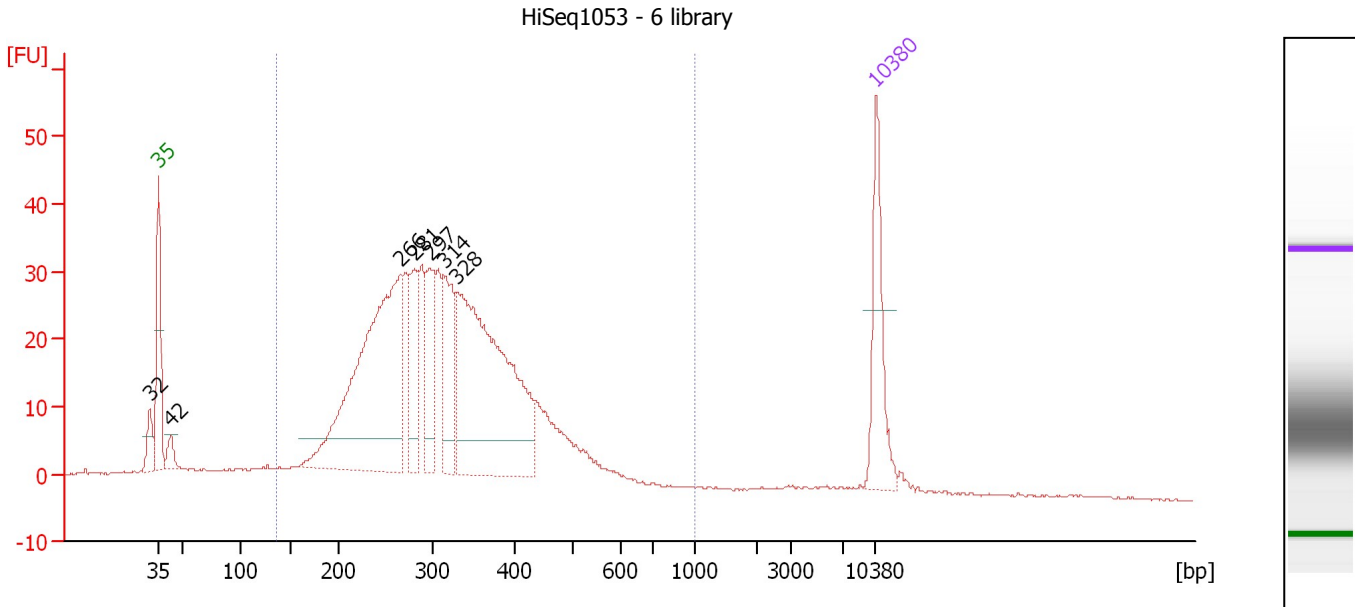
Region table for sample 5 : HiSeq1053 - 5 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
136	1,000	324	1,470.5	9,031.0	1,769.43	96	27.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HiSeq1053 - 6 library

Number of peaks found: 7 Corr. Area 1: 768.5
 Noise: 0.1

Peak table for sample 6 : HiSeq1053 - 6 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.12
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	23.58	843.5		44.14
4	266	467.94	2,665.5		66.63
5	281	80.79	436.1		67.98
6	297	88.41	451.7		69.44
7	314	97.16	469.5		70.84
8	328	436.46	2,013.2		72.04
9	10,380	75.00	10.9	Upper Marker	113.00

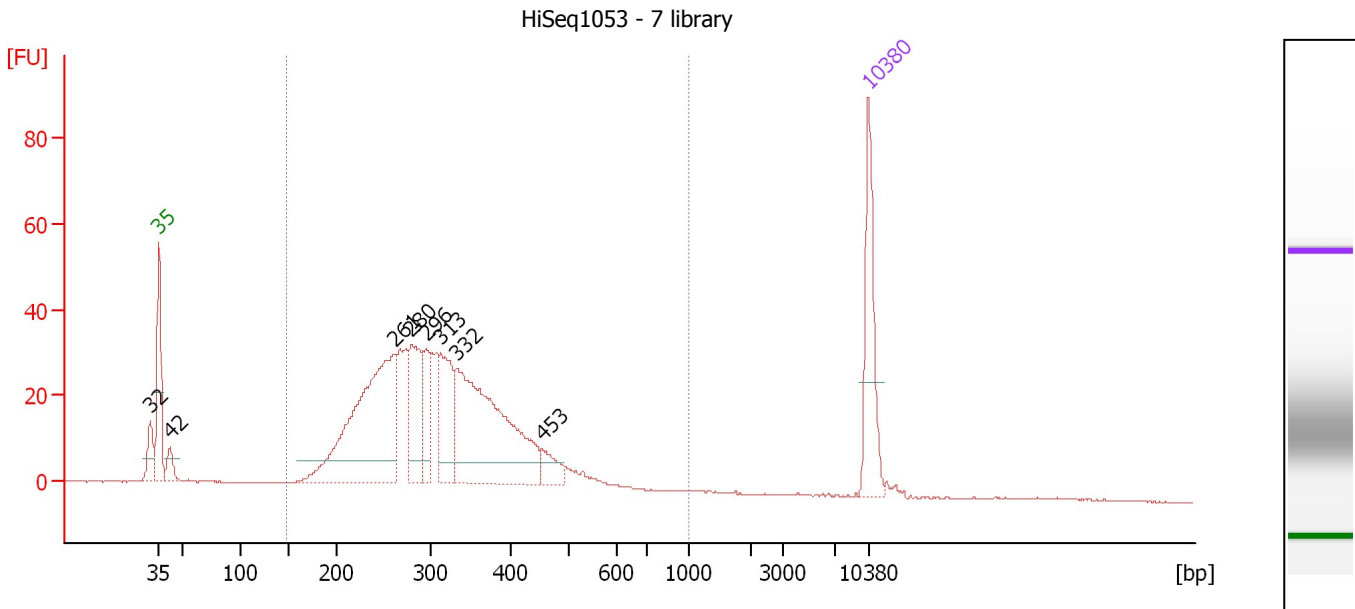
Region table for sample 6 : HiSeq1053 - 6 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
137	1,000	321	768.5	8,619.4	1,649.62	91	28.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HiSeq1053 - 7 library

Number of peaks found: 8 Corr. Area 1: 752.3
 Noise: 0.1

Peak table for sample 7 : HiSeq1053 - 7 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.16
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	24.73	890.1		44.10
4	261	332.53	1,928.5		66.19
5	280	97.94	529.7		67.93
6	296	46.21	236.4		69.40
7	313	91.86	444.3		70.82
8	332	294.05	1,340.8		72.35
9	453	23.48	78.5		80.81
10	10,380	75.00	10.9	Upper Marker	113.00

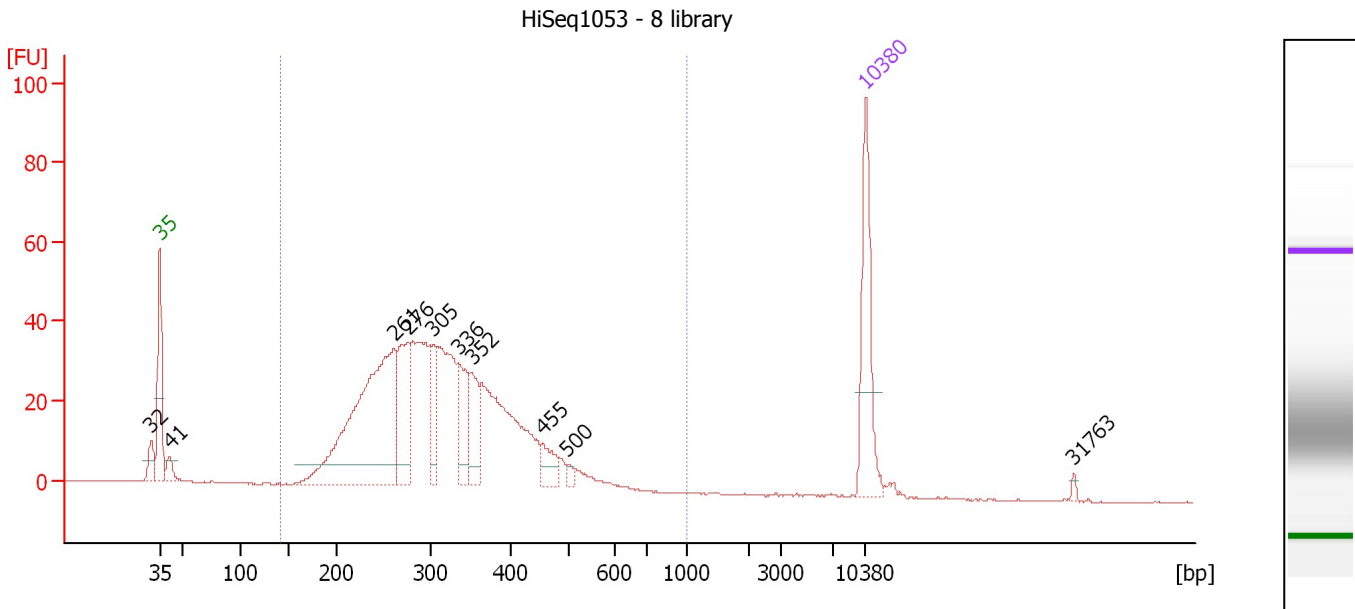
Region table for sample 7 : HiSeq1053 - 7 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
148	1,000	319	752.3	5,894.7	1,133.30	93	27.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HiSeq1053 - 8 library

Number of peaks found: 10 Corr. Area 1: 844.5
 Noise: 0.2

Peak table for sample 8 : HiSeq1053 - 8 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.15
2	35	125.00	5,411.3	Lower Marker	43.00
3	41	17.06	628.8		43.95
4	261	334.10	1,936.2		66.21
5	276	90.32	495.1		67.58
6	305	45.75	227.6		70.12
7	336	57.84	261.2		72.61
8	352	46.29	199.2		73.93
9	455	23.35	77.8		80.91
10	500	5.09	15.4		83.45
11	10,380	75.00	10.9	Upper Marker	113.00
12	31,763	0.00	0.0		133.62

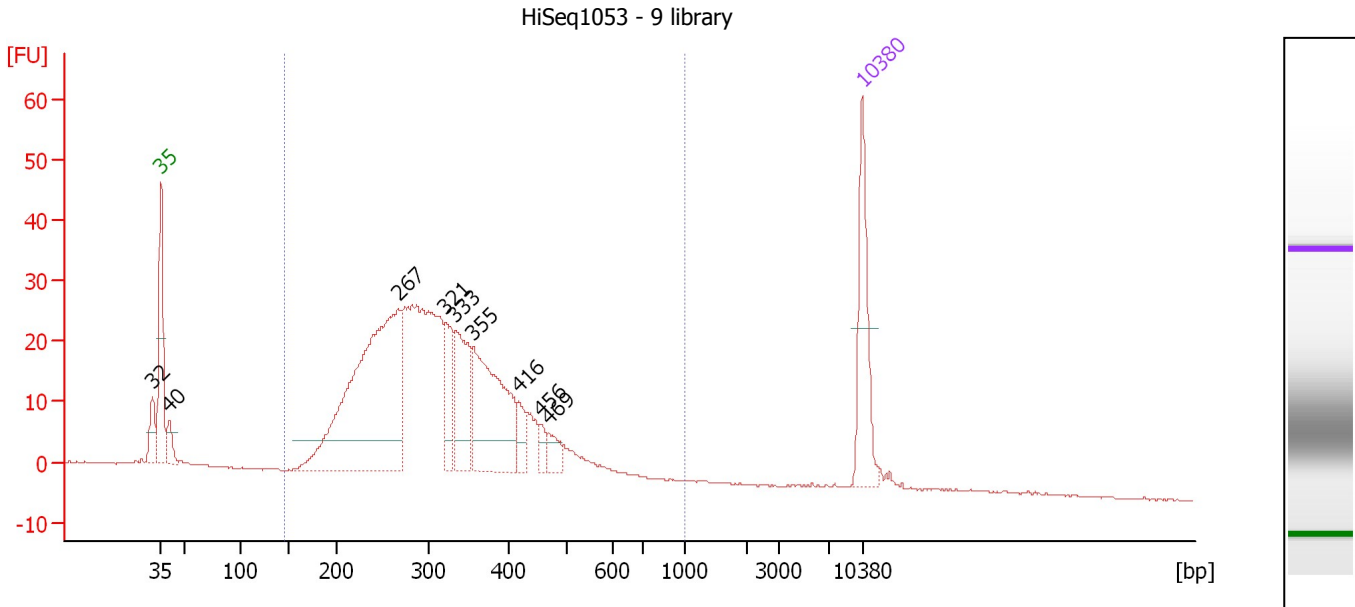
Region table for sample 8 : HiSeq1053 - 8 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
142	1,000	319	844.5	5,807.0	1,124.83	96	25.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HiSeq1053 - 9 library

Number of peaks found: 9 Corr. Area 1: 652.7
 Noise: 0.2

Peak table for sample 9 : HiSeq1053 - 9 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.15
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	28.52	1,076.8		43.80
4	267	468.39	2,661.5		66.69
5	321	61.59	290.9		71.43
6	333	103.18	469.8		72.38
7	355	188.88	807.0		74.14
8	416	24.03	87.4		78.72
9	456	11.47	38.1		80.95
10	469	20.24	65.4		81.70
11	10,380	75.00	10.9	Upper Marker	113.00

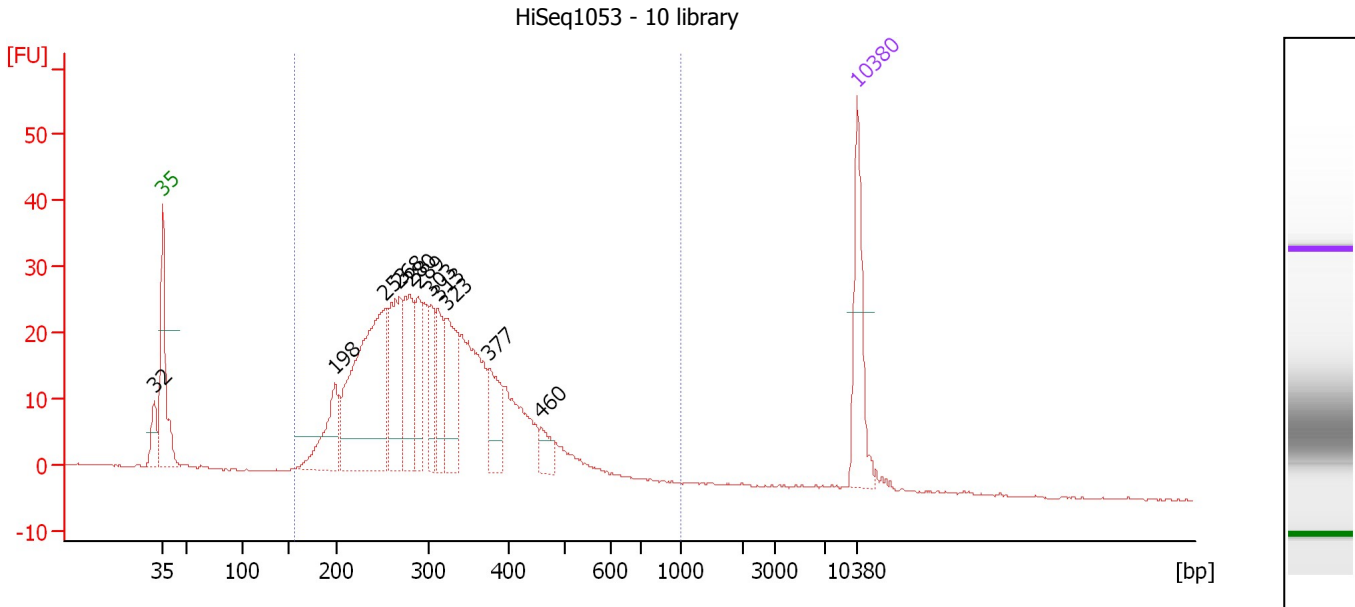
Region table for sample 9 : HiSeq1053 - 9 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
146	1,000	323	652.7	7,040.9	1,359.90	93	28.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : HiSeq1053 - 10 library

Number of peaks found: 11 Corr. Area 1: 629.9
 Noise: 0.1

Peak table for sample 10 : HiSeq1053 - 10 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.14
2	35	125.00	5,411.3	Lower Marker	43.00
3	198	95.34	730.3		60.35
4	253	337.50	2,023.9		65.40
5	268	129.01	728.2		66.85
6	280	103.89	562.0		67.93
7	289	62.30	326.1		68.79
8	303	58.07	290.7		69.97
9	313	62.79	304.2		70.77
10	323	102.00	478.9		71.58
11	377	60.98	245.1		75.93
12	460	22.20	73.1		81.20
13	10,380	75.00	10.9	Upper Marker	113.00

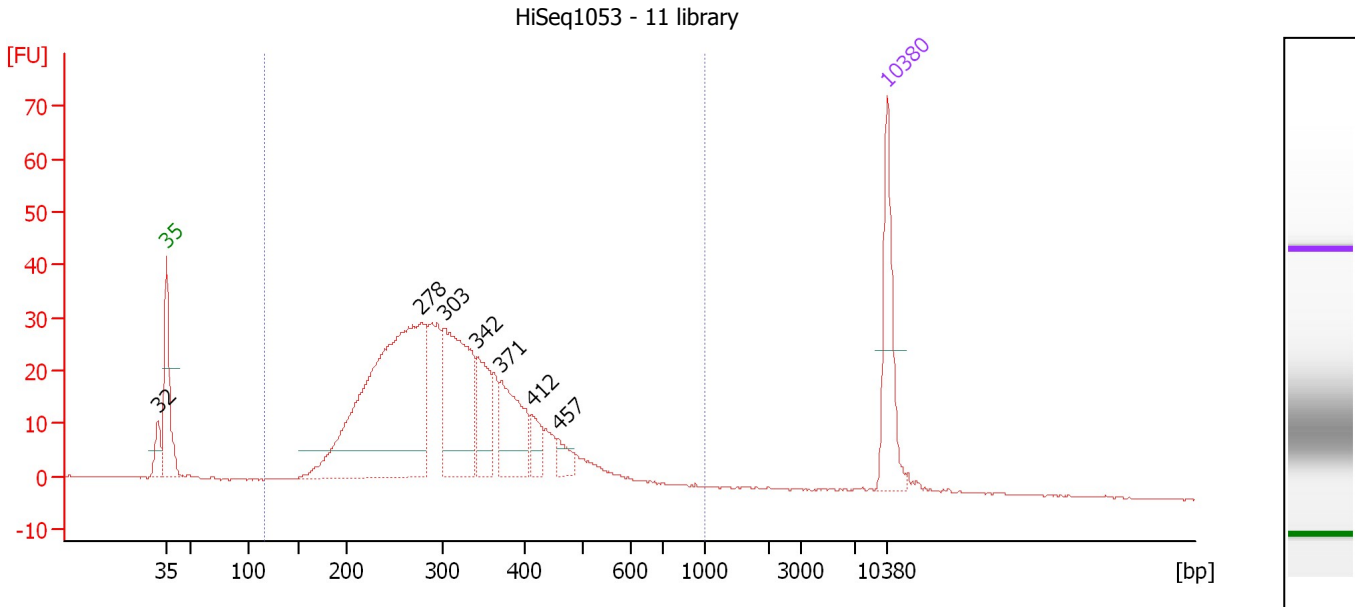
Region table for sample 10 : HiSeq1053 - 10 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
156	1,000	316	629.9	7,879.8	1,494.05	97	27.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
 Modified: 9/14/2017 12:20:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : HiSeq1053 - 11 library

Number of peaks found: 7 Corr. Area 1: 708.5
 Noise: 0.1

Peak table for sample 11 : HiSeq1053 - 11 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.13
2	35	125.00	5,411.3	Lower Marker	43.00
3	278	517.34	2,820.3		67.73
4	303	211.23	1,056.0		70.00
5	342	74.31	329.6		73.09
6	371	95.90	391.3		75.48
7	412	24.73	91.0		78.46
8	457	17.73	58.8		81.01
9	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : HiSeq1053 - 11 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
117	1,000	318	708.5	6,781.3	1,285.10	95	29.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-14\2017-09-14_001.xad

Created: 9/14/2017 11:21:15 AM
Modified: 9/14/2017 12:20:39 PM

Gel Image

