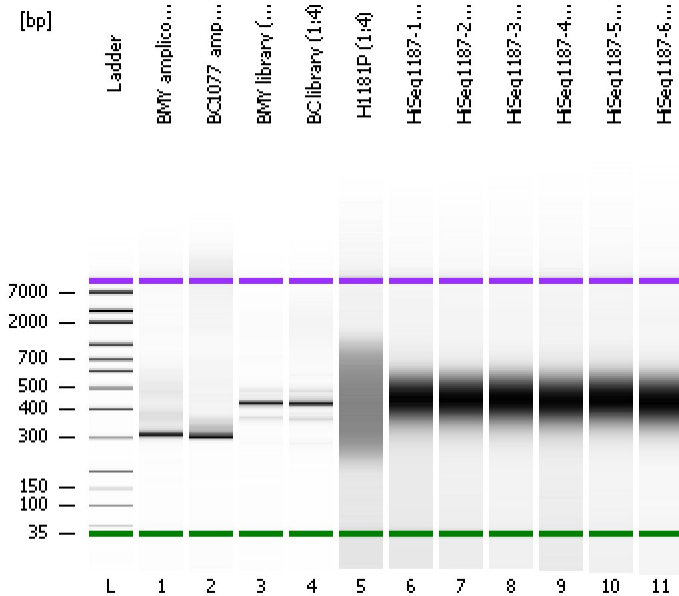


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
Modified: 11/27/2017 1:37:03 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

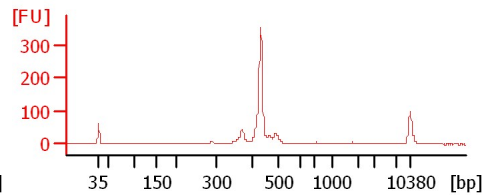
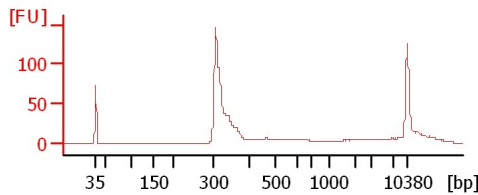
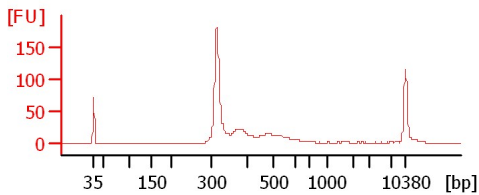
Chip Information:

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

BMY amplicon QC

BC1077 amplicon QC

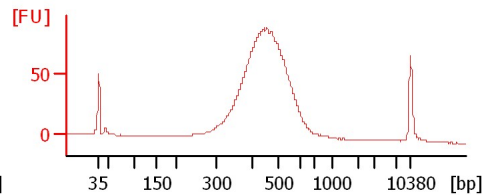
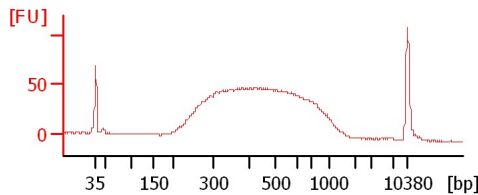
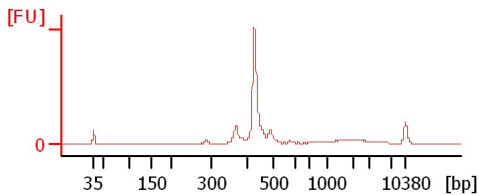
BMY library (1:4)



BC library (1:4)

H1181P (1:4)

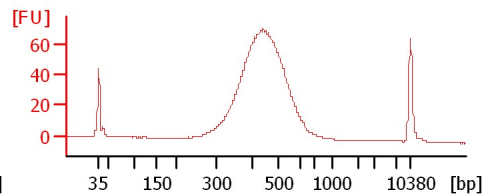
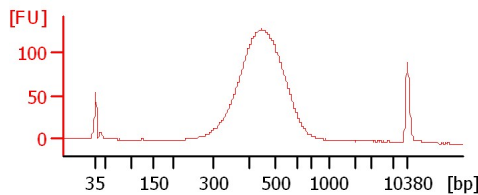
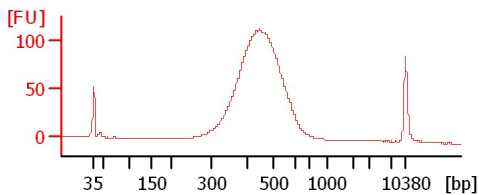
HiSeq1187-1 library (1:4)



HiSeq1187-2 library (1:4)

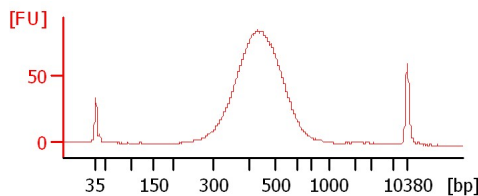
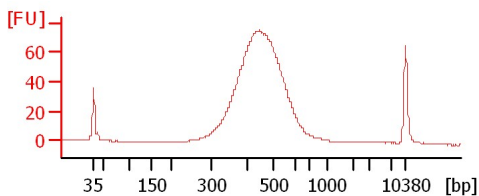
HiSeq1187-3 library (1:4)

HiSeq1187-4 library (1:4)



HiSeq1187-5 library (1:4)

HiSeq1187-6 library (1:4)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
Modified: 11/27/2017 1:37:03 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
BMY amplicon QC		<input type="checkbox"/>	✓			
BC1077 amplicon QC		<input type="checkbox"/>	✓			
BMY library (1:4)		<input type="checkbox"/>	✓			
BC library (1:4)		<input type="checkbox"/>	✓			
H1181P (1:4)		<input type="checkbox"/>	✓			
HiSeq1187-1 library (1:4)		<input type="checkbox"/>	✓			
HiSeq1187-2 library (1:4)		<input type="checkbox"/>	✓			
HiSeq1187-3 library (1:4)		<input type="checkbox"/>	✓			
HiSeq1187-4 library (1:4)		<input type="checkbox"/>	✓			
HiSeq1187-5 library (1:4)		<input type="checkbox"/>	✓			
HiSeq1187-6 library (1:4)		<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\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
Modified: 11/27/2017 1:37:03 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

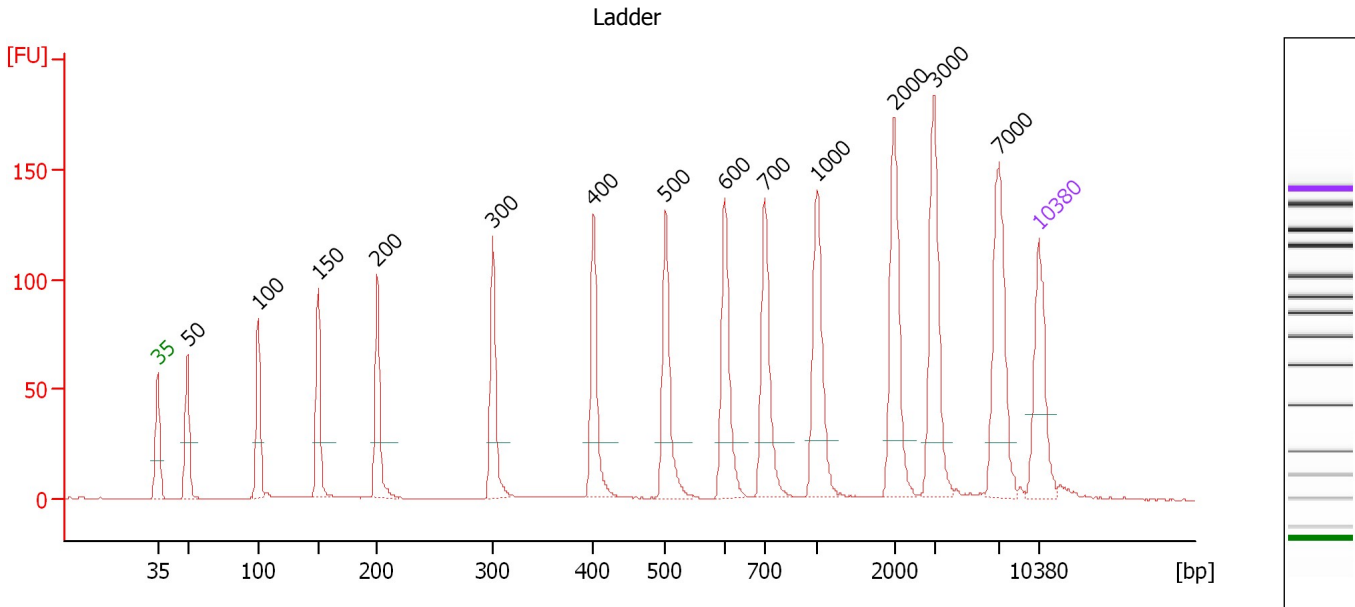
Ladder

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\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
 Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

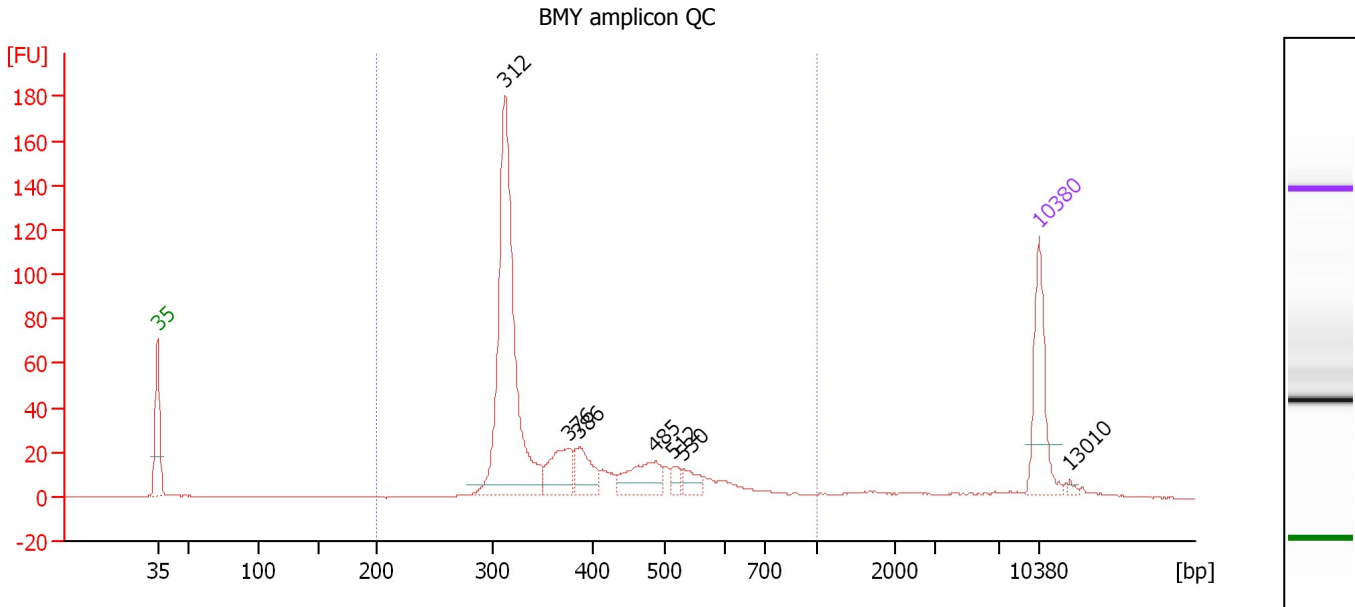
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	50.98
4	150	150.00	1,515.2	Ladder Peak	55.77
5	200	150.00	1,136.4	Ladder Peak	60.48
6	300	150.00	757.6	Ladder Peak	69.64
7	400	150.00	568.2	Ladder Peak	77.62
8	500	150.00	454.5	Ladder Peak	83.37
9	600	150.00	378.8	Ladder Peak	88.07
10	700	150.00	324.7	Ladder Peak	91.25
11	1,000	150.00	227.3	Ladder Peak	95.43
12	2,000	150.00	113.6	Ladder Peak	101.51
13	3,000	150.00	75.8	Ladder Peak	104.69
14	7,000	150.00	32.5	Ladder Peak	109.82
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
 Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : BMY amplicon QC

Number of peaks found: 7 Corr. Area 1: 696.1
 Noise: 0.2

Peak table for sample 1 : BMY amplicon QC

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	312	435.61	2,113.7		70.62
3	376	59.85	241.5		75.67
4	386	46.12	180.9		76.52
5	485	58.58	182.9		82.52
6	512	13.37	39.5		83.95
7	530	18.38	52.6		84.76
8	10,380	75.00	10.9	Upper Marker	113.00
9	13,010	0.00	0.0		115.48

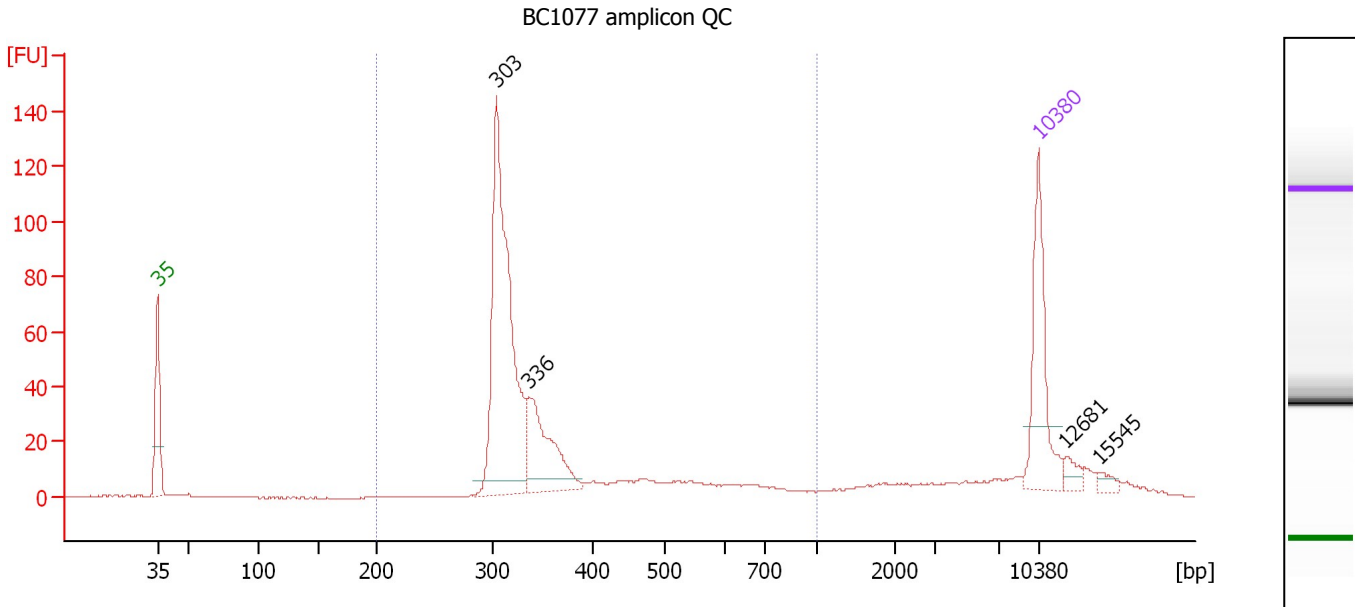
Region table for sample 1 : BMY amplicon QC

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	390	696.1	3,168.8	752.57	90	28.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
 Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : BC1077 amplicon QC

Number of peaks found: 4 Corr. Area 1: 584.2
 Noise: 0.2

Peak table for sample 2 : BC1077 amplicon QC

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	303	332.89	1,662.5		69.91
3	336	100.49	453.2		72.51
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,681	0.00	0.0		115.17
6	15,545	0.00	0.0		117.86

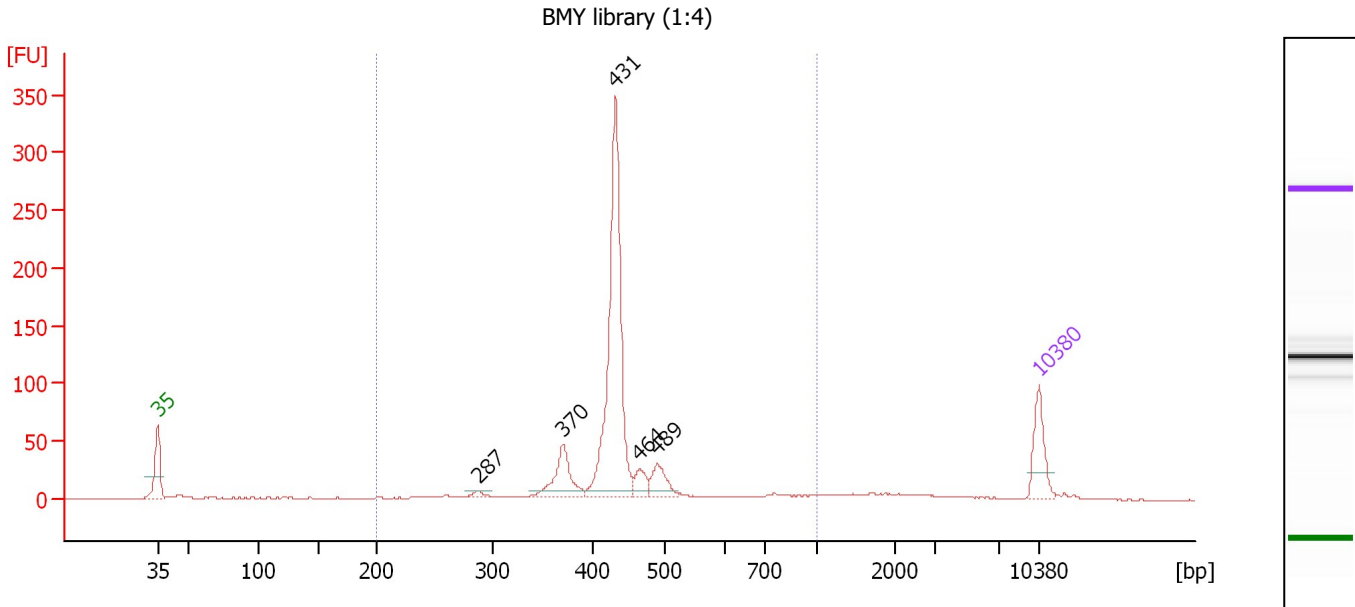
Region table for sample 2 : BC1077 amplicon QC

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	376	584.2	2,426.2	552.86	78	32.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
 Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : BMV library (1:4)

Number of peaks found: 5 Corr. Area 1: 774.5
 Noise: 0.2

Peak table for sample 3 : BMV library (1:4)

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	287	11.90	62.8		68.45
3	370	116.04	475.8		75.19
4	431	620.47	2,182.0		79.39
5	464	38.37	125.3		81.30
6	489	58.58	181.7		82.71
7	10,380	75.00	10.9	Upper Marker	113.00

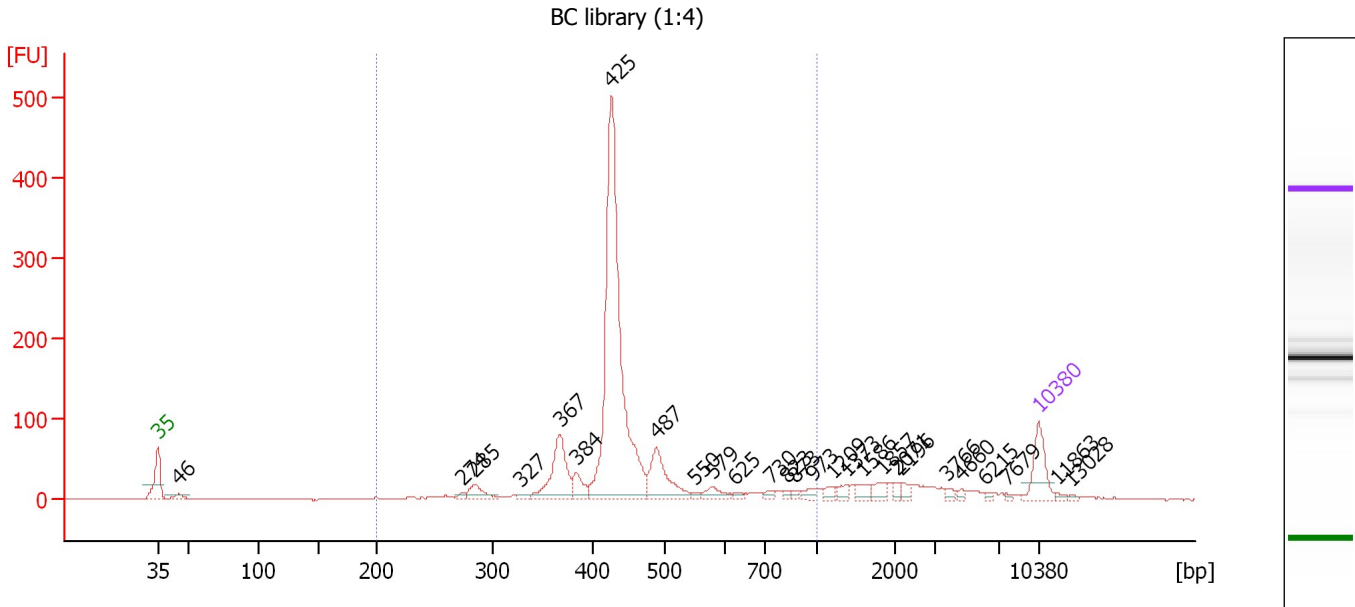
Region table for sample 3 : BMV library (1:4)

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	438	774.5	3,609.6	997.92	88	20.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
 Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : BC library (1:4)

Number of peaks found: 27 Corr. Area 1: 1,440.0
 Noise: 0.4

Peak table for sample 4 : BC library (1:4)

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	46	20.25	671.1		44.70
3	274	10.72	59.4		67.23
4	285	50.88	270.9		68.23
5	327	12.22	56.6		71.82
6	367	178.29	736.8		74.96
7	384	49.97	197.4		76.30
8	425	998.09	3,559.6		79.05
9	487	149.27	464.1		82.64
10	550	7.19	19.8		85.73
11	579	32.95	86.2		87.07
12	625	9.50	23.0		88.87
13	730	11.58	24.0		91.66
14	823	8.18	15.1		92.96
15	873	8.70	15.1		93.66
16	973	17.71	27.6		95.05
17	1,209	14.37	18.0		96.70
18	1,373	14.75	16.3		97.69
19	1,586	20.93	20.0		98.99
20	1,857	20.86	17.0		100.64
21	2,071	11.69	8.6		101.73
22	2,196	15.04	10.4		102.13
23	3,766	9.87	4.0		105.67
24	4,660	6.30	2.0		106.82
25	6,215	5.17	1.3		108.81

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
 Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : BC library (1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	7,679	3.66	0.7		110.46
27	10,380	75.00	10.9	Upper Marker	113.00
28	11,863	0.00	0.0		114.40
29	13,028	0.00	0.0		115.49

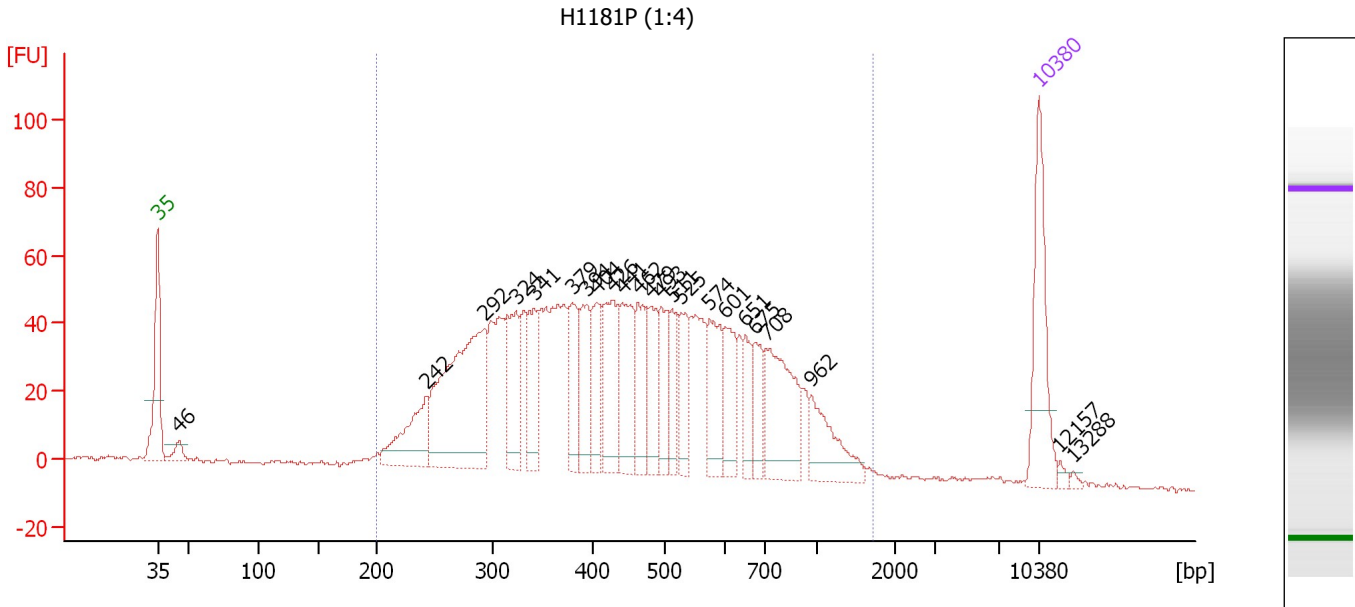
Region table for sample 4 : BC library (1:4)

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	449	1,440.0	5,903.6	1,640.43	81	25.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
 Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : H1181P (1:4)

Number of peaks found: 23 Corr. Area 1: 1,829.6
 Noise: 0.6

Peak table for sample 5 : H1181P (1:4)

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	46	17.69	584.1		44.72
3	242	79.67	498.5		64.34
4	292	248.91	1,289.5		68.95
5	324	70.75	331.1		71.54
6	341	55.95	248.6		72.91
7	379	53.50	213.8		75.95
8	394	58.08	223.5		77.11
9	404	48.27	181.3		77.82
10	426	79.87	283.8		79.14
11	441	75.18	258.6		79.95
12	462	55.20	181.1		81.17
13	479	51.13	161.9		82.13
14	493	47.10	144.6		82.99
15	511	37.18	110.1		83.91
16	525	46.97	135.4		84.56
17	574	60.57	159.9		86.85
18	601	47.36	119.3		88.11
19	651	33.84	78.8		89.68
20	675	34.89	78.4		90.44
21	708	100.03	214.2		91.36
22	962	52.00	81.9		94.90
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,157	0.00	0.0		114.67
25	13,288	0.00	0.0		115.74

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary Continued ...

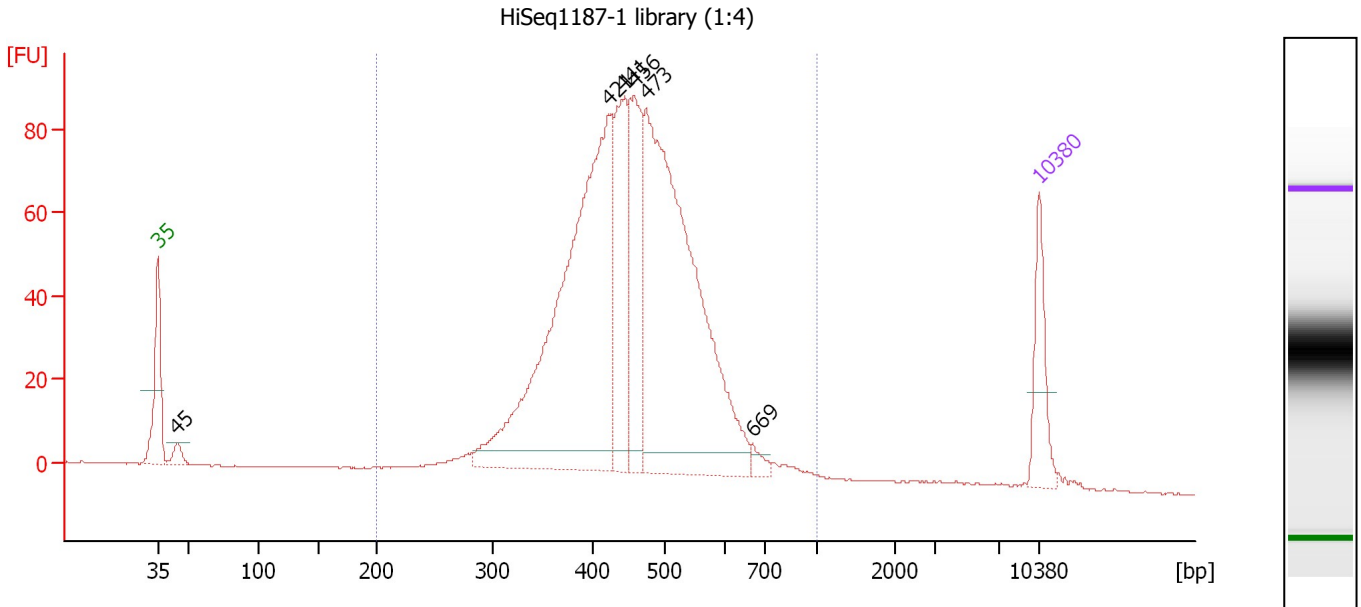
... Region table for sample 5 : H1181P (1:4)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,730	491	1,829.6	7,096.1	■ 1,845.07	95	45.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
 Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HiSeq1187-1 library (1:4)

Number of peaks found: 6 Corr. Area 1: 1,371.5
 Noise: 0.2

Peak table for sample 6 : HiSeq1187-1 library (1:4)

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	45	24.70	836.0		44.55
3	421	892.44	3,208.6		78.85
4	441	228.62	785.2		79.99
5	456	217.34	721.5		80.86
6	473	865.20	2,773.9		81.79
7	669	15.38	34.8		90.25
8	10,380	75.00	10.9	Upper Marker	113.00

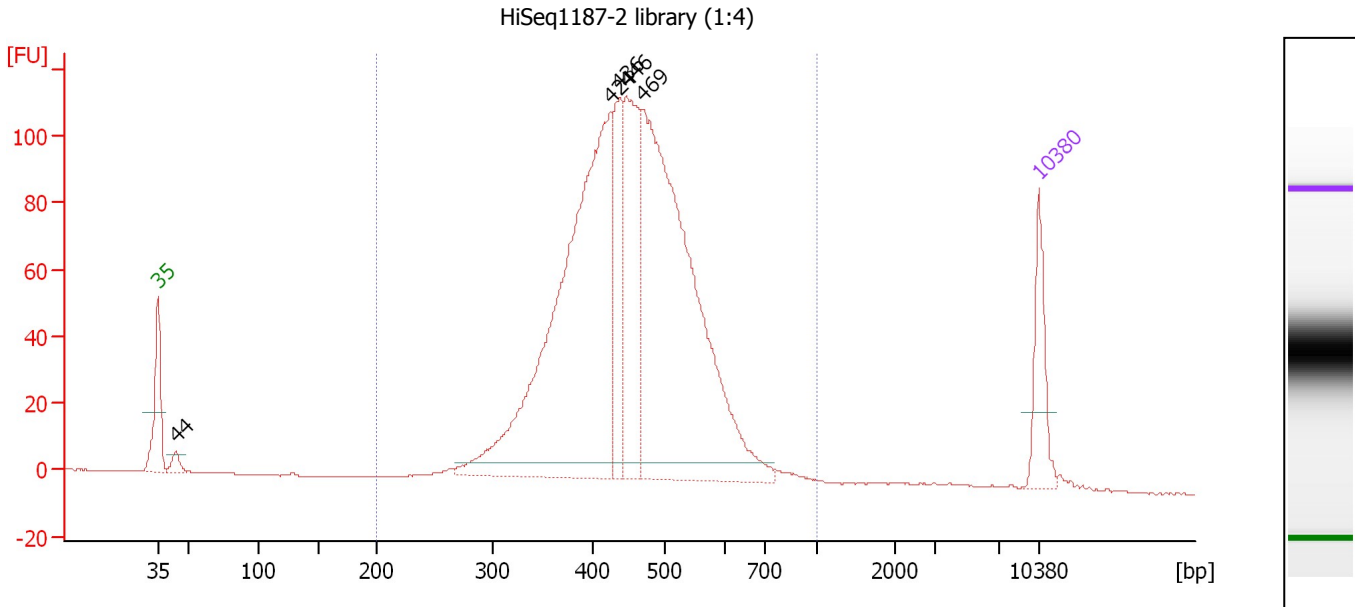
Region table for sample 6 : HiSeq1187-1 library (1:4)

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	456	1,371.5	8,349.5	2,381.12	97	20.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
 Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HiSeq1187-2 library (1:4)

Number of peaks found: 5 Corr. Area 1: 1,687.4
 Noise: 0.1

Peak table for sample 7 : HiSeq1187-2 library (1:4)

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	44	23.00	792.4		44.42
3	424	923.90	3,298.0		79.03
4	436	175.56	609.6		79.71
5	446	267.13	908.5		80.24
6	469	886.48	2,862.0		81.60
7	10,380	75.00	10.9	Upper Marker	113.00

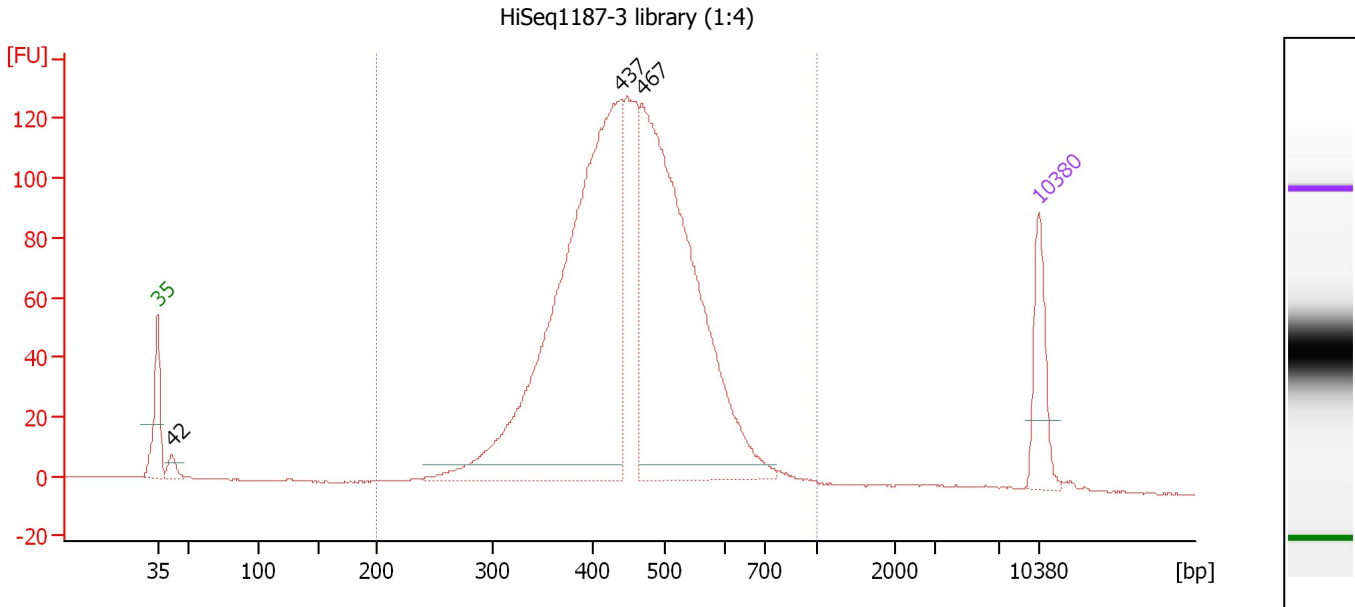
Region table for sample 7 : HiSeq1187-2 library (1:4)

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	454	1,687.4	8,233.4	2,354.86	97	19.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
 Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HiSeq1187-3 library (1:4)

Number of peaks found: 3 Corr. Area 1: 1,960.0
 Noise: 0.1

Peak table for sample 8 : HiSeq1187-3 library (1:4)

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	42	24.92	896.7		44.13
3	437	1,111.01	3,848.6		79.77
4	467	946.33	3,068.7		81.48
5	10,380	75.00	10.9	Upper Marker	113.00

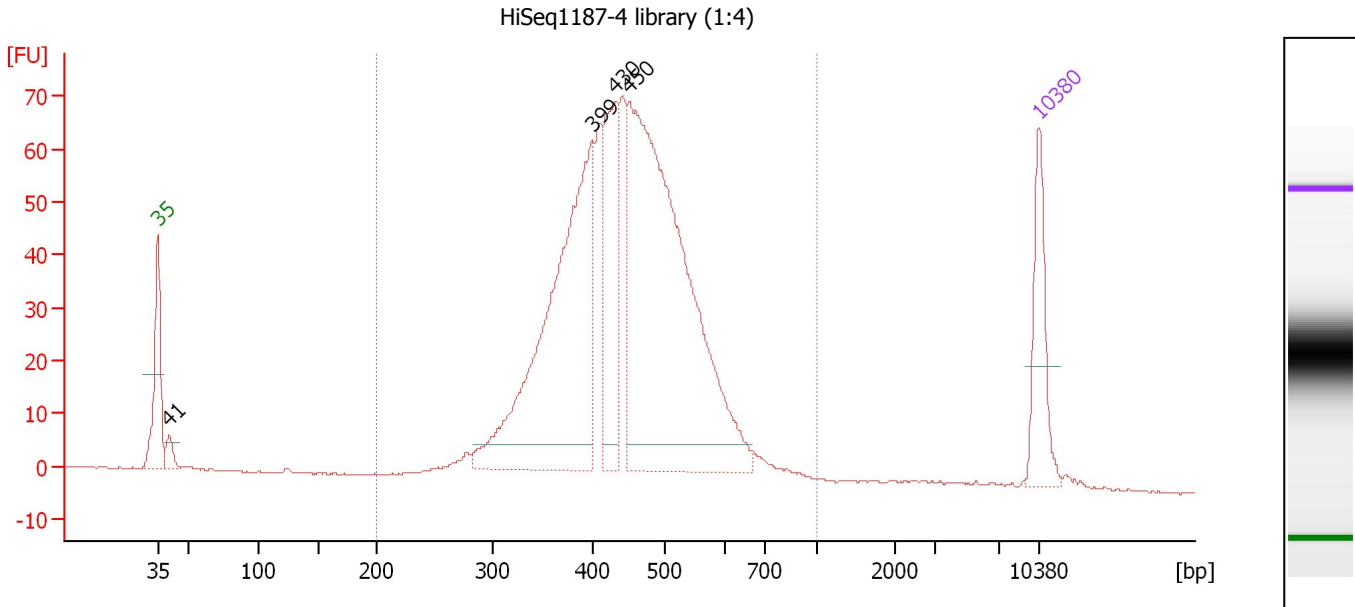
Region table for sample 8 : HiSeq1187-3 library (1:4)

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	454	1,960.0	8,618.9	2,457.99	97	19.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
 Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HiSeq1187-4 library (1:4)

Number of peaks found: 4 Corr. Area 1: 1,057.3
 Noise: 0.1

Peak table for sample 9 : HiSeq1187-4 library (1:4)

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	41	23.29	864.5		43.92
3	399	535.52	2,033.6		77.54
4	430	194.54	685.9		79.33
5	450	763.44	2,573.1		80.47
6	10,380	75.00	10.9	Upper Marker	113.00

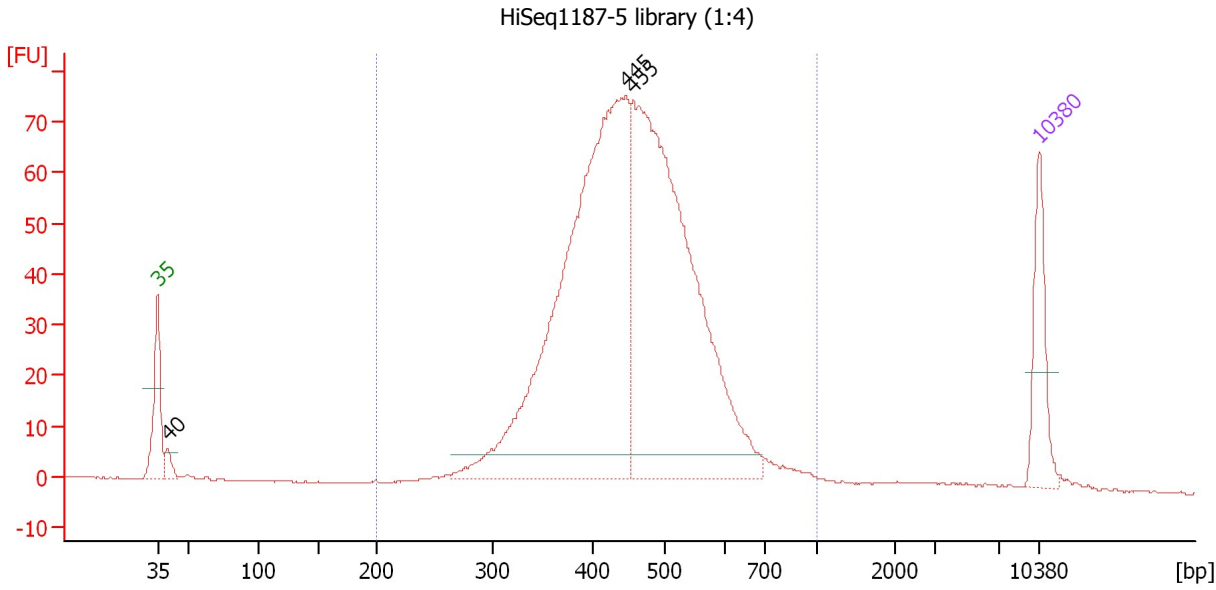
Region table for sample 9 : HiSeq1187-4 library (1:4)

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	449	1,057.3	6,449.6	1,817.79	97	19.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
 Modified: 11/27/2017 1:37:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : HiSeq1187-5 library (1:4)

Number of peaks found: 3 Corr. Area 1: 1,126.9
 Noise: 0.1

Peak table for sample 10 : HiSeq1187-5 library (1:4)

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	40	22.10	833.1		43.82
3	445	992.00	3,375.7		80.22
4	455	892.48	2,973.4		80.77
5	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 10 : HiSeq1187-5 library (1:4)

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	458	1,126.9	7,045.1	2,024.47	96	20.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-27\2017-11-27_001.xad

Created: 11/27/2017 12:55:44 PM
Modified: 11/27/2017 1:37:03 PM

Gel Image

