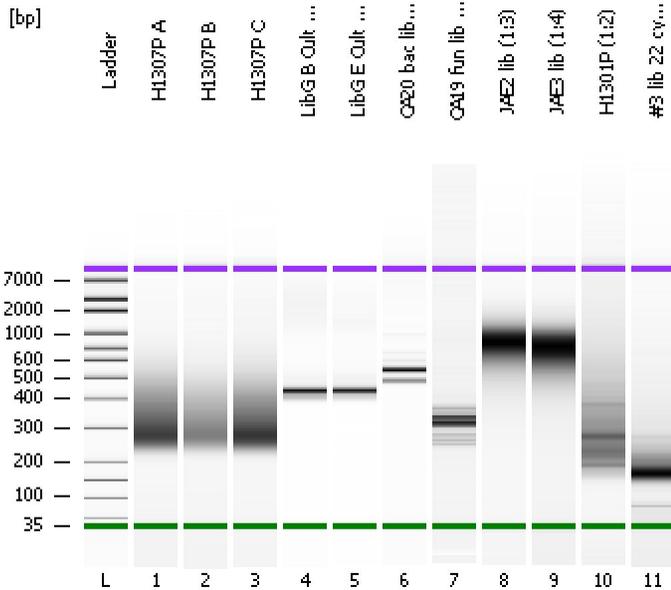


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
Modified: 3/1/2018 12:11:38 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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

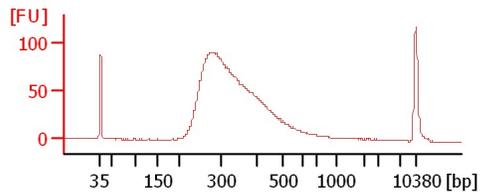
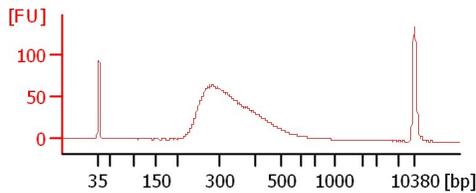
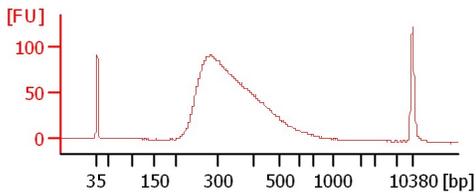
Chip Information:

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

H1307P A

H1307P B

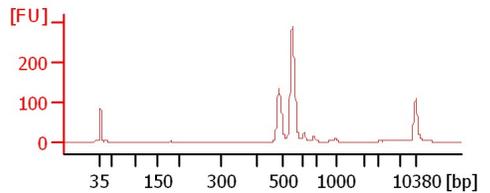
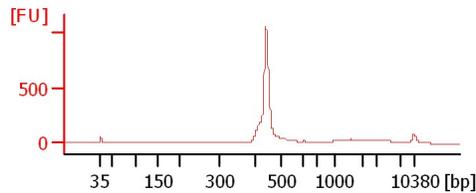
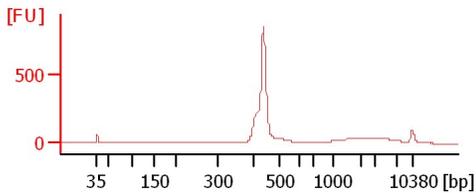
H1307P C



LibG B Cult Pippin

LibG E Cult Pippin

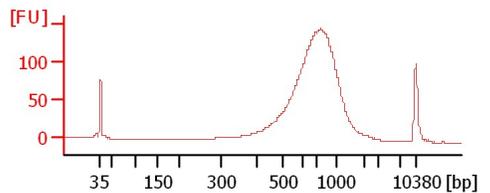
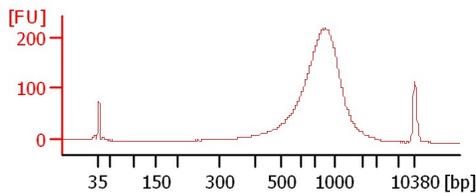
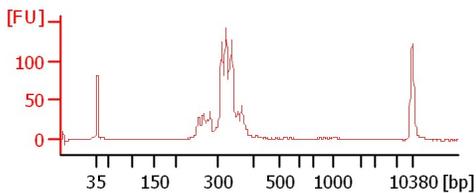
CA20 bac lib (1:10)



CA19 fun lib (1:10)

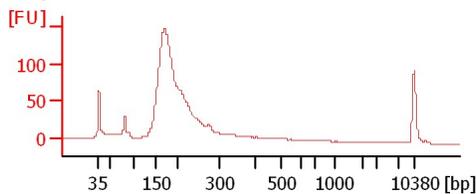
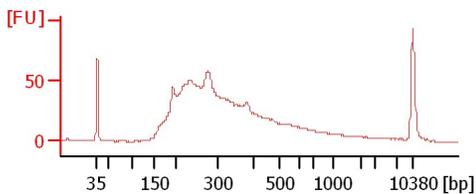
JAE2 lib (1:3)

JAE3 lib (1:4)



H1301P (1:2)

#3 lib 22 cyc PCR



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
H1307P A		<input type="checkbox"/>	✓			
H1307P B		<input type="checkbox"/>	✓			
H1307P C		<input type="checkbox"/>	✓			
LibG B Cult Pippin		<input type="checkbox"/>	✓			
LibG E Cult Pippin		<input type="checkbox"/>	✓			
CA20 bac lib (1:10)		<input type="checkbox"/>	✓			
CA19 fun lib (1:10)		<input type="checkbox"/>	✓			
JAE2 lib (1:3)		<input type="checkbox"/>	✓			
JAE3 lib (1:4)		<input type="checkbox"/>	✓			
H1301P (1:2)		<input type="checkbox"/>	✓			
#3 lib 22 cyc PCR	Taylor	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

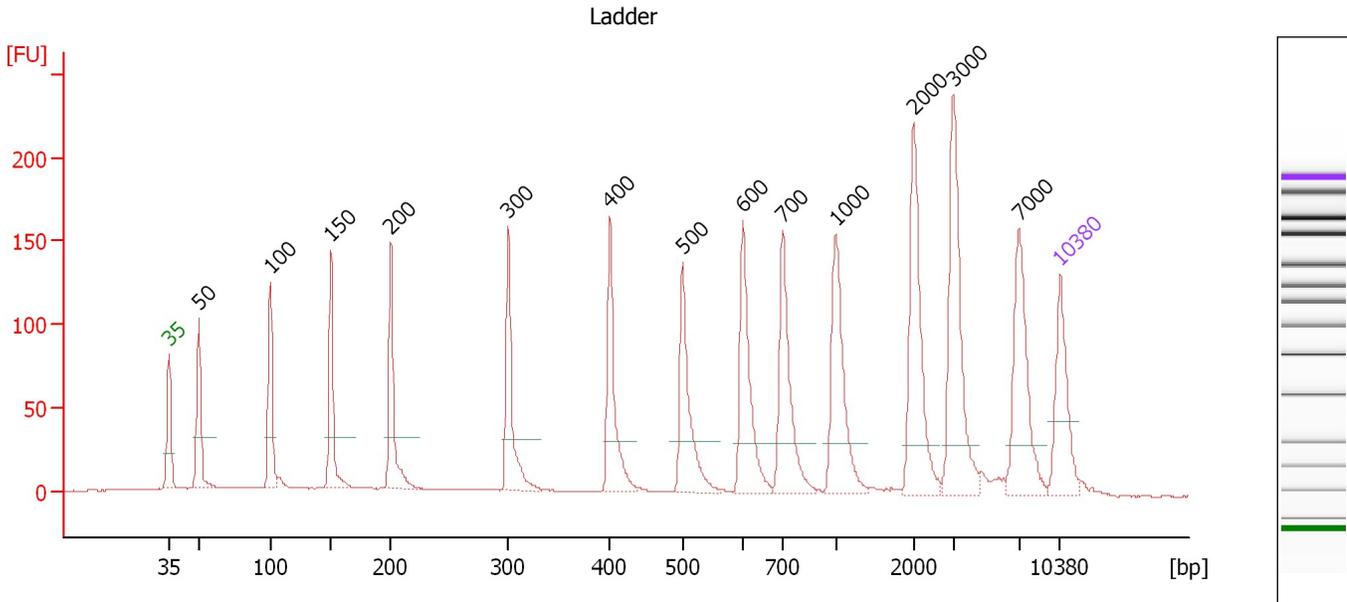
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

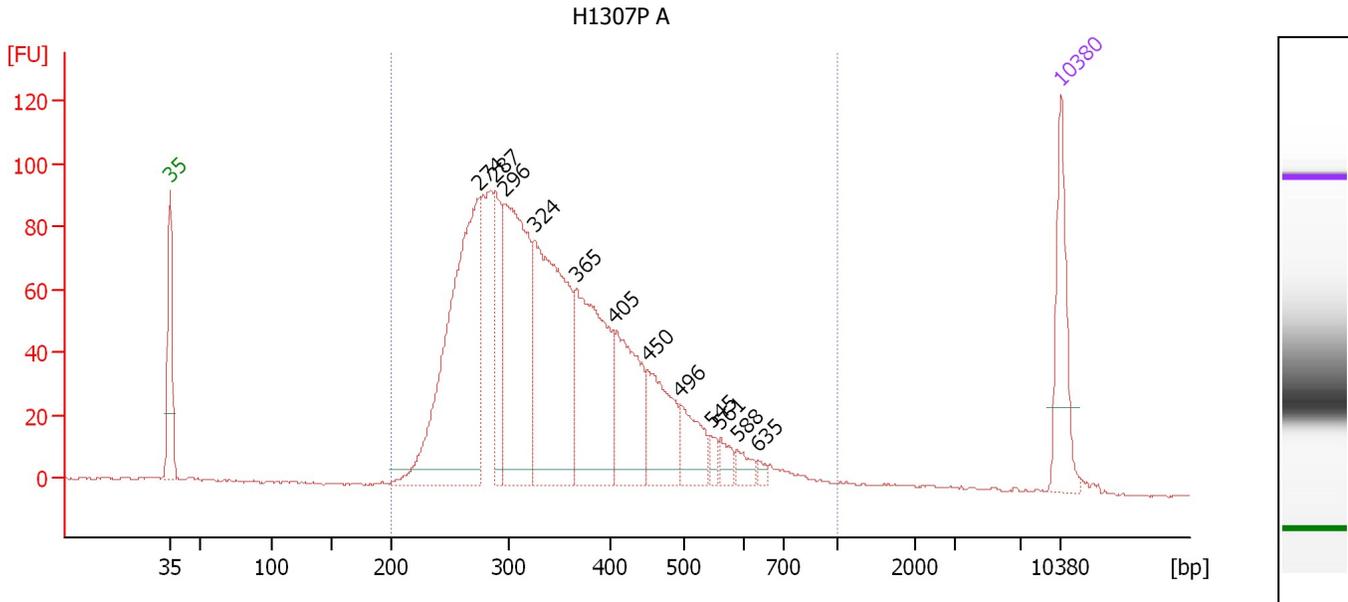
Peak table for Ladder

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	55.72
5	200	150.00	1,136.4	Ladder Peak	60.42
6	300	150.00	757.6	Ladder Peak	69.68
7	400	150.00	568.2	Ladder Peak	77.66
8	500	150.00	454.5	Ladder Peak	83.36
9	600	150.00	378.8	Ladder Peak	88.10
10	700	150.00	324.7	Ladder Peak	91.20
11	1,000	150.00	227.3	Ladder Peak	95.35
12	2,000	150.00	113.6	Ladder Peak	101.46
13	3,000	150.00	75.8	Ladder Peak	104.61
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\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : H1307P A

Number of peaks found: 12 Corr. Area 1: 1,918.6
 Noise: 0.3

Peak table for sample 1 : H1307P 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	274	465.17	2,572.2		67.27
3	287	108.50	571.8		68.52
4	296	314.43	1,607.1		69.35
5	324	354.28	1,655.7		71.61
6	365	249.19	1,033.7		74.89
7	405	141.18	528.4		77.93
8	450	101.86	342.9		80.51
9	496	55.82	170.4		83.15
10	545	12.01	33.4		85.50
11	561	16.83	45.5		86.24
12	588	15.59	40.2		87.53
13	635	6.14	14.6		89.19
14	10,380	75.00	10.9	Upper Marker	113.00

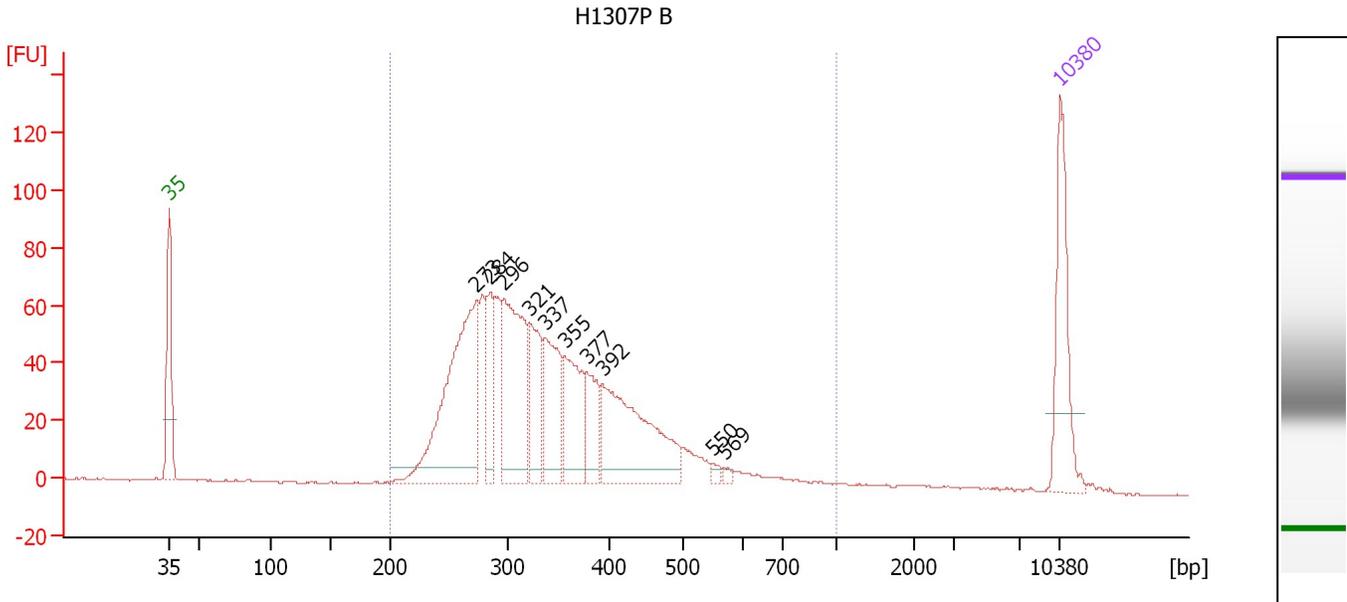
Region table for sample 1 : H1307P A

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	357	1,918.6	2,067.61	9,606.9	98	29.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : H1307P B

Number of peaks found: 10 Corr. Area 1: 1,295.2
 Noise: 0.3

Peak table for sample 2 : H1307P 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	273	265.65	1,474.9		67.17
3	284	62.56	333.3		68.24
4	296	174.71	892.9		69.35
5	321	73.23	345.8		71.34
6	337	95.02	427.8		72.60
7	355	83.12	354.6		74.08
8	377	50.34	202.5		75.80
9	392	169.63	655.0		77.05
10	550	5.52	15.2		85.72
11	569	3.96	10.5		86.65
12	10,380	75.00	10.9	Upper Marker	113.00

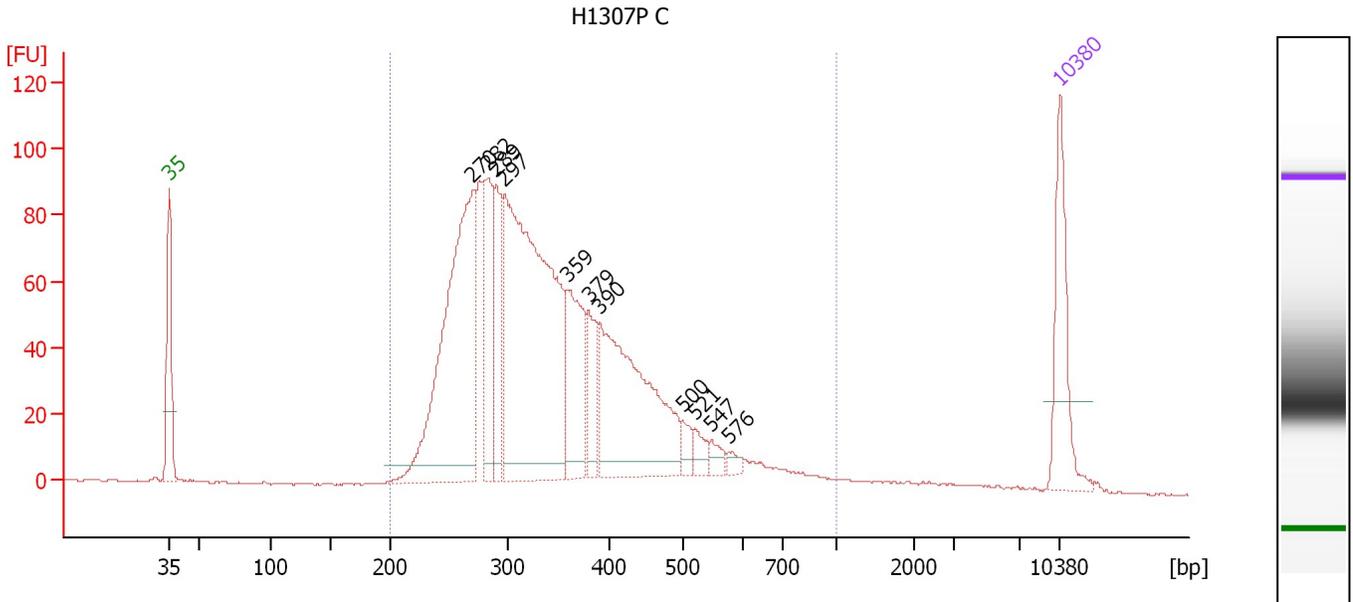
Region table for sample 2 : H1307P B

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	352	1,295.2	1,198.95	5,627.3	97	29.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : H1307P C

Number of peaks found: 11 Corr. Area 1: 1,810.1
 Noise: 0.3

Peak table for sample 3 : H1307P C

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	270	418.36	2,350.8		66.87
3	282	113.31	609.2		68.00
4	289	94.55	494.9		68.70
5	297	550.73	2,813.4		69.36
6	359	123.16	520.4		74.35
7	379	51.12	204.6		75.95
8	390	262.03	1,018.4		76.85
9	500	15.84	48.0		83.34
10	521	15.20	44.2		84.33
11	547	11.87	32.9		85.60
12	576	8.04	21.2		86.97
13	10,380	75.00	10.9	Upper Marker	113.00

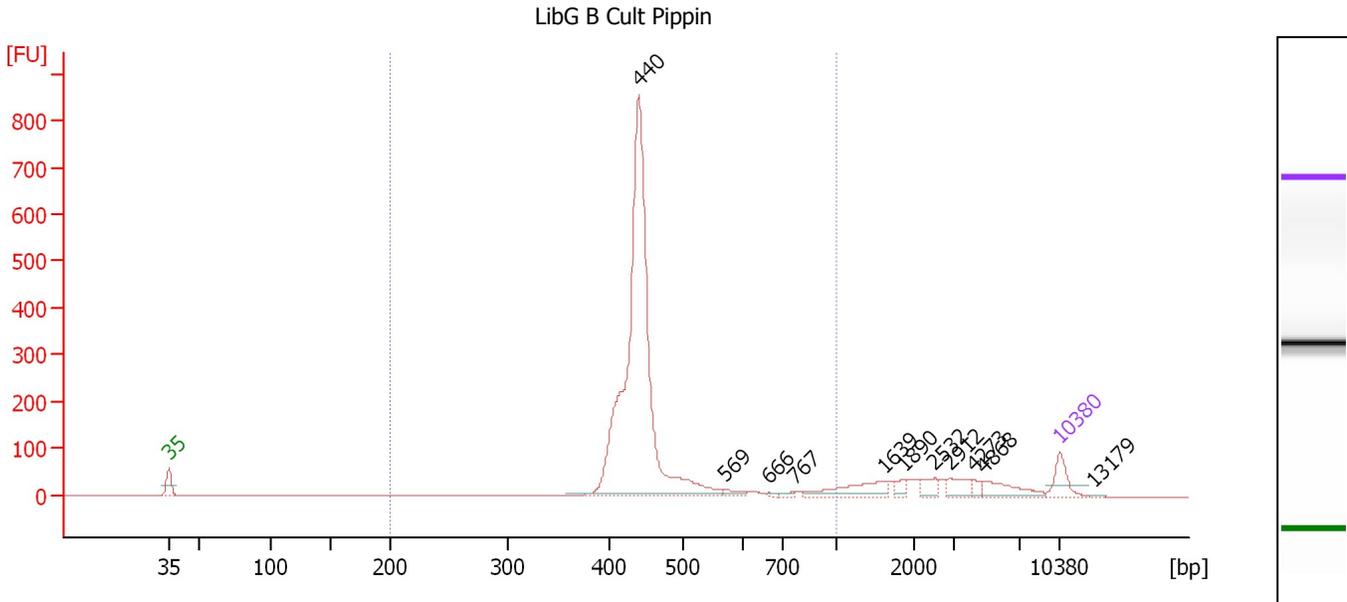
Region table for sample 3 : H1307P C

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	353	1,810.1	1,885.05	8,874.3	98	30.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : LibG B Cult Pippin

Number of peaks found: 11 Corr. Area 1: 2,173.4
 Noise: 0.3

Peak table for sample 4 : LibG B Cult Pippin

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	440	2,229.12	7,683.0		79.92
3	569	24.51	65.3		86.62
4	666	7.96	18.1		90.16
5	767	12.23	24.2		92.12
6	1,639	116.11	107.3		99.26
7	1,890	27.17	21.8		100.79
8	2,532	42.83	25.6		103.14
9	2,912	59.38	30.9		104.33
10	4,273	20.40	7.2		106.25
11	4,868	80.99	25.2		107.02
12	10,380	75.00	10.9	Upper Marker	113.00
13	13,179	0.00	0.0		115.68

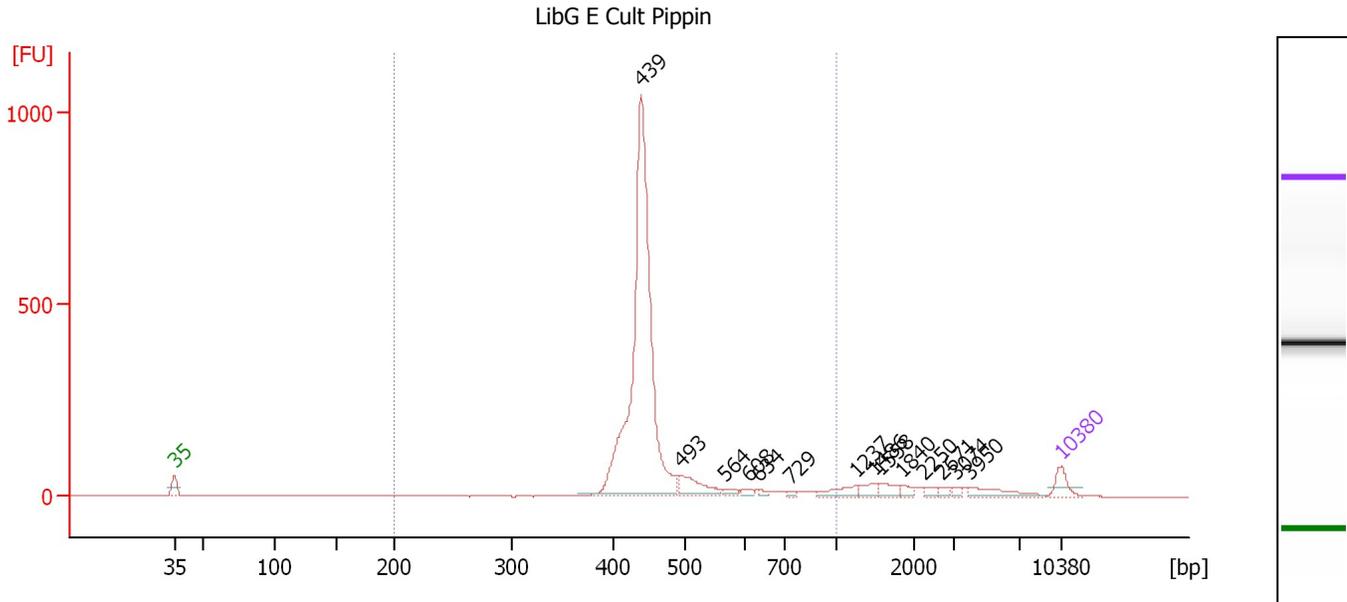
Region table for sample 4 : LibG B Cult Pippin

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	456	2,173.4	2,326.17	7,900.2	81	17.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : LibG E Cult Pippin

Number of peaks found: 14 Corr. Area 1: 2,479.8
 Noise: 0.3

Peak table for sample 5 : LibG E Cult Pippin

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	439	2,798.97	9,666.4		79.87
3	493	188.37	579.0		82.96
4	564	32.17	86.4		86.39
5	608	25.38	63.2		88.36
6	634	16.95	40.5		89.14
7	729	12.03	25.0		91.60
8	1,237	73.78	90.4		96.80
9	1,486	51.28	52.3		98.32
10	1,558	58.57	56.9		98.76
11	1,840	29.12	24.0		100.48
12	2,250	27.61	18.6		102.25
13	2,671	23.05	13.1		103.58
14	3,074	18.10	8.9		104.70
15	3,950	88.17	33.8		105.83
16	10,380	75.00	10.9	Upper Marker	113.00

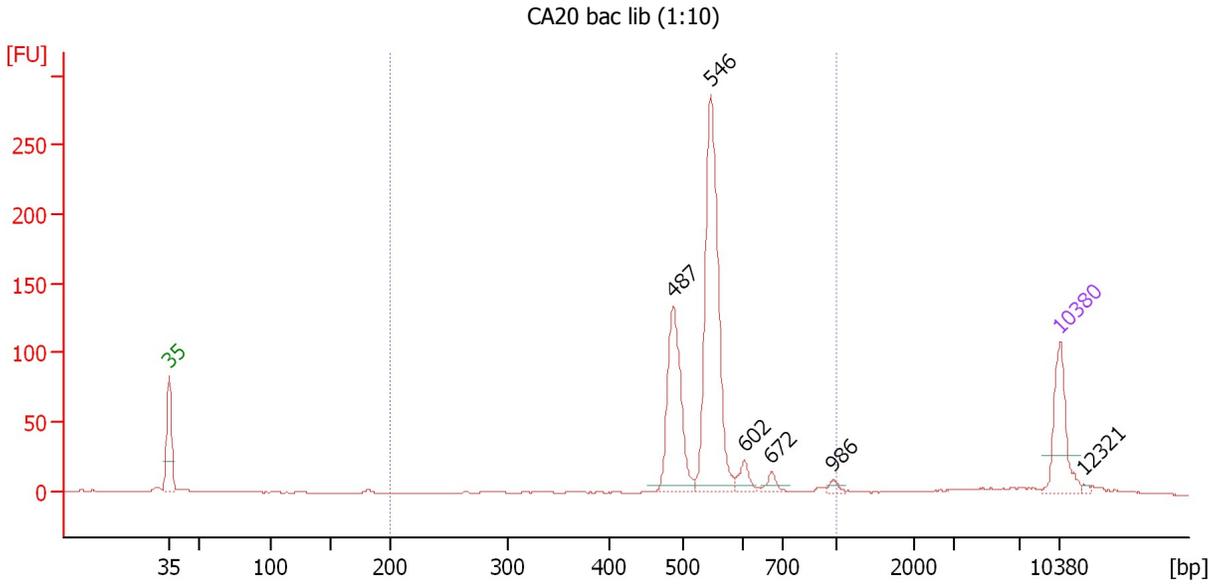
Region table for sample 5 : LibG E Cult Pippin

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	464	2,479.8	3,227.76	10,829.1	86	18.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CA20 bac lib (1:10)

Number of peaks found: 6 Corr. Area 1: 692.9
 Noise: 0.2

Peak table for sample 6 : CA20 bac lib (1:10)

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	487	201.21	626.4		82.60
3	546	381.68	1,058.2		85.56
4	602	21.34	53.7		88.18
5	672	13.86	31.2		90.34
6	986	7.02	10.8		95.16
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,321	0.00	0.0		114.86

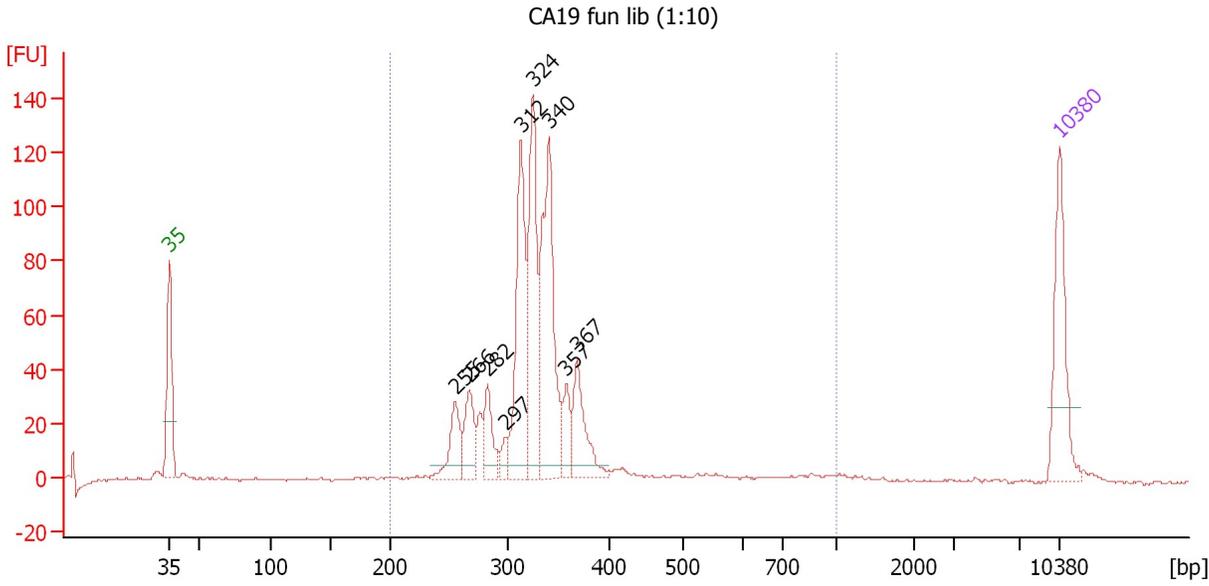
Region table for sample 6 : CA20 bac lib (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	544	692.9	659.75	1,879.4	88	13.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CA19 fun lib (1:10)

Number of peaks found: 9 Corr. Area 1: 797.4
 Noise: 0.5

Peak table for sample 7 : CA19 fun lib (1:10)

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	255	49.99	297.2		65.50
3	266	48.96	278.4		66.57
4	282	43.16	231.5		68.05
5	297	14.36	73.2		69.43
6	312	163.46	793.2		70.65
7	324	165.50	774.6		71.57
8	340	204.64	912.7		72.85
9	357	33.21	141.0		74.22
10	367	67.50	278.5		75.04
11	10,380	75.00	10.9	Upper Marker	113.00

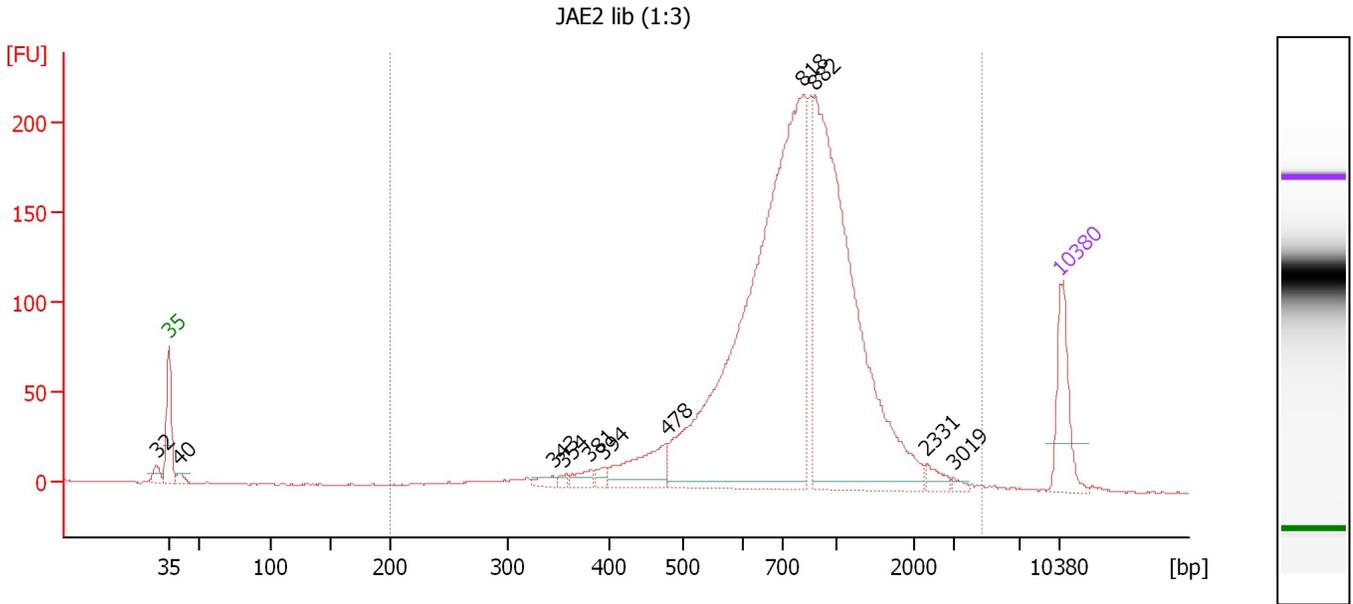
Region table for sample 7 : CA19 fun lib (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	338	797.4	877.41	4,119.9	95	25.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : JAE2 lib (1:3)

Number of peaks found: 11 Corr. Area 1: 2,460.0
 Noise: 0.4

Peak table for sample 8 : JAE2 lib (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.01
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	12.45	471.5		43.78
4	343	13.35	58.9		73.14
5	354	7.13	30.5		74.02
6	381	20.35	81.0		76.10
7	394	12.05	46.4		77.14
8	478	91.97	291.2		82.13
9	818	1,065.00	1,972.2		92.84
10	882	724.49	1,244.5		93.72
11	2,331	15.15	9.8		102.50
12	3,019	5.40	2.7		104.63
13	10,380	75.00	10.9	Upper Marker	113.00

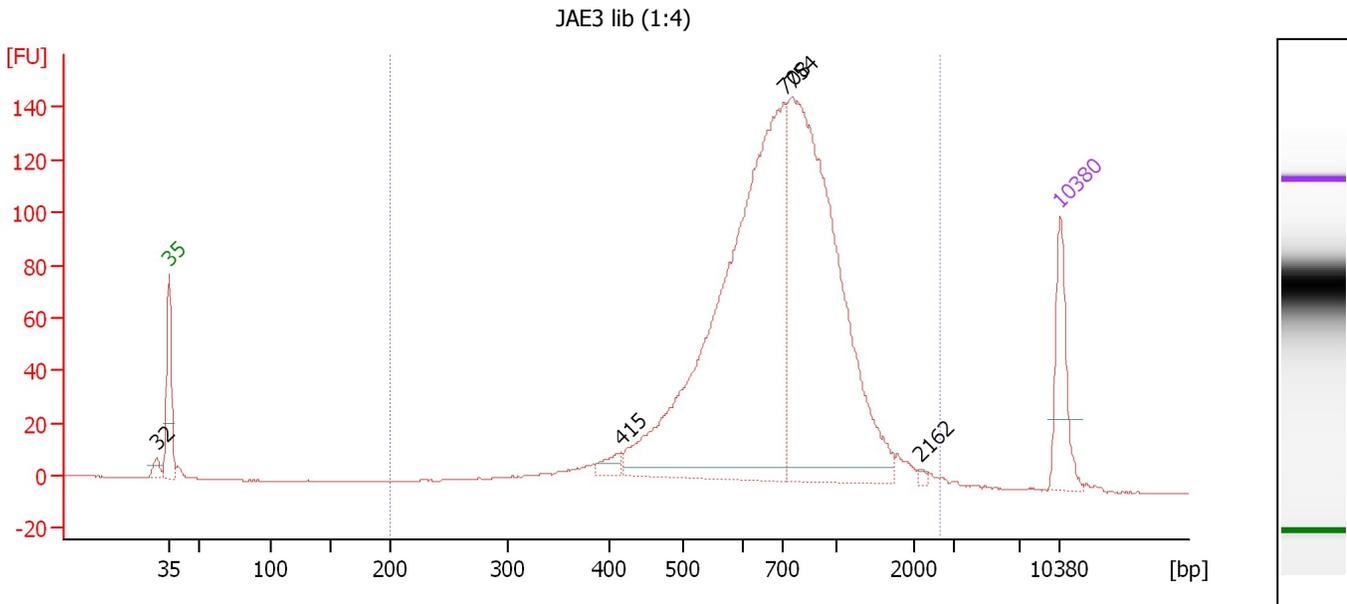
Region table for sample 8 : JAE2 lib (1:3)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	4,695	875	2,460.0	2,115.15	4,475.2	98	47.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : JAE3 lib (1:4)

Number of peaks found: 5 Corr. Area 1: 1,832.1
 Noise: 0.2

Peak table for sample 9 : JAE3 lib (1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.00
2	35	125.00	5,411.3	Lower Marker	43.00
3	415	19.90	72.7		78.50
4	708	992.80	2,124.8		91.31
5	754	791.52	1,591.6		91.94
6	2,162	3.04	2.1		101.97
7	10,380	75.00	10.9	Upper Marker	113.00

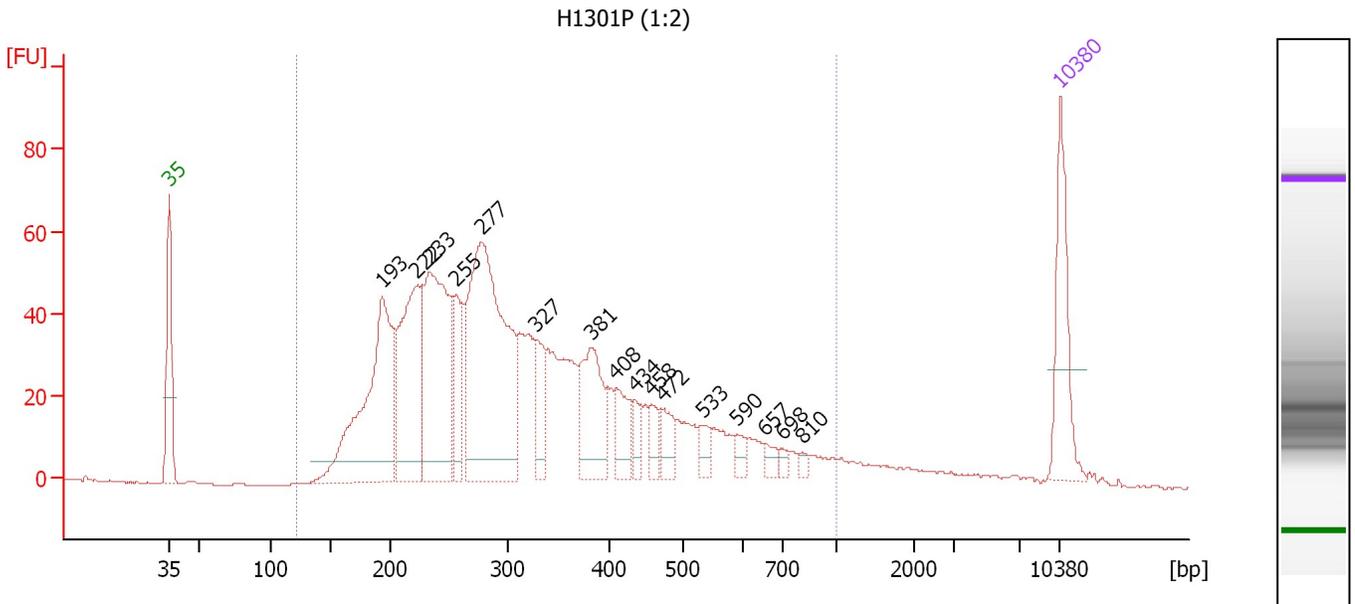
Region table for sample 9 : JAE3 lib (1:4)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	2,676	772	1,832.1	1,961.97	4,492.1	98	39.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : H1301P (1:2)

Number of peaks found: 16 Corr. Area 1: 1,463.0
 Noise: 0.1

Peak table for sample 10 : H1301P (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	193	308.64	2,422.0		59.77
3	222	211.85	1,444.5		62.48
4	233	277.98	1,811.2		63.43
5	255	75.52	447.9		65.55
6	277	411.72	2,254.7		67.52
7	327	50.90	235.5		71.87
8	381	104.75	416.9		76.12
9	408	40.59	150.6		78.13
10	434	22.07	77.0		79.62
11	458	20.35	67.4		80.95
12	472	29.99	96.4		81.74
13	533	17.39	49.4		84.93
14	590	11.45	29.4		87.63
15	657	11.03	25.5		89.86
16	698	6.58	14.3		91.13
17	810	5.55	10.4		92.73
18	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 10 : H1301P (1:2)

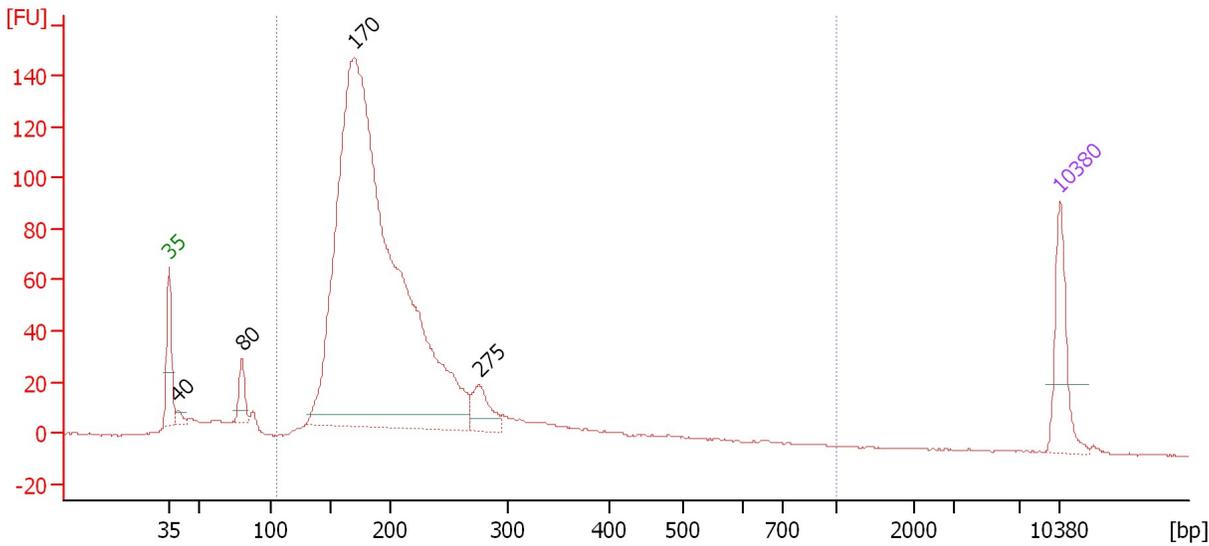
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
121	1,000	341	1,463.0	2,129.44	11,590.1	93	43.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
 Modified: 3/1/2018 12:11:38 PM

Electropherogram Summary Continued ...

#3 lib 22 cyc PCR [Taylor]



Overall Results for sample 11 : #3 lib 22 cyc PCR

Number of peaks found: 4 Corr. Area 1: 1,542.3
 Noise: 0.2

Peak table for sample 11 : #3 lib 22 cyc PCR

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	13.95	535.1		43.70
3	80	46.63	879.8		48.75
4	170	2,021.29	18,051.3		57.57
5	275	58.36	321.6		67.35
6	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : #3 lib 22 cyc PCR

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
106	1,000	216	1,542.3	2,308.83	18,251.2	93	41.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-01\2018-03-01_002.xad

Created: 3/1/2018 10:06:13 AM
Modified: 3/1/2018 12:11:38 PM

Gel Image

