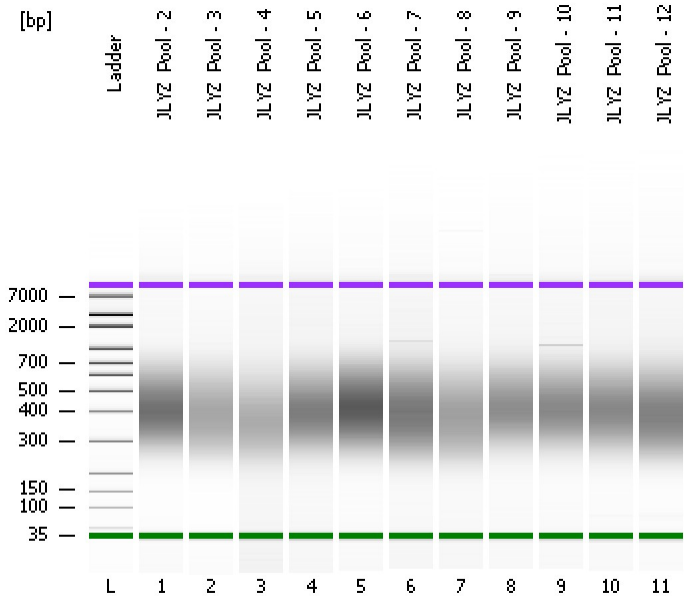


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
Modified: 6/21/2018 9:11:59 AM

Electrophoresis File Run Summary



Instrument Information:

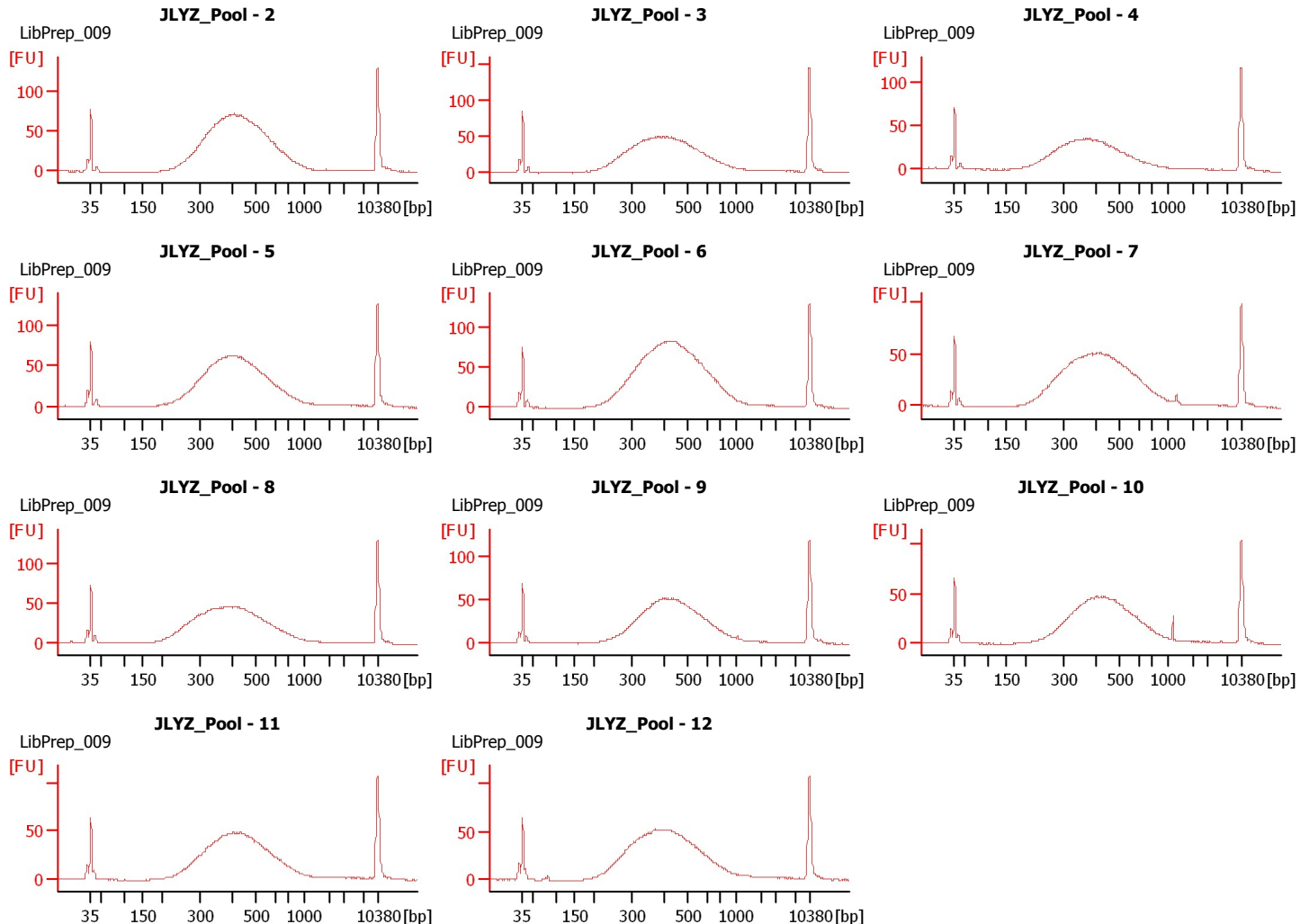
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
Modified: 6/21/2018 9:11:59 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JLYZ_Pool - 2	LibPrep_009	<input type="checkbox"/>	✓			
JLYZ_Pool - 3	LibPrep_009	<input type="checkbox"/>	✓			
JLYZ_Pool - 4	LibPrep_009	<input type="checkbox"/>	✓			
JLYZ_Pool - 5	LibPrep_009	<input type="checkbox"/>	✓			
JLYZ_Pool - 6	LibPrep_009	<input type="checkbox"/>	✓			
JLYZ_Pool - 7	LibPrep_009	<input type="checkbox"/>	✓			
JLYZ_Pool - 8	LibPrep_009	<input type="checkbox"/>	✓			
JLYZ_Pool - 9	LibPrep_009	<input type="checkbox"/>	✓			
JLYZ_Pool - 10	LibPrep_009	<input type="checkbox"/>	✓			
JLYZ_Pool - 11	LibPrep_009	<input type="checkbox"/>	✓			
JLYZ_Pool - 12	LibPrep_009	<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\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
Modified: 6/21/2018 9:11:59 AM

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

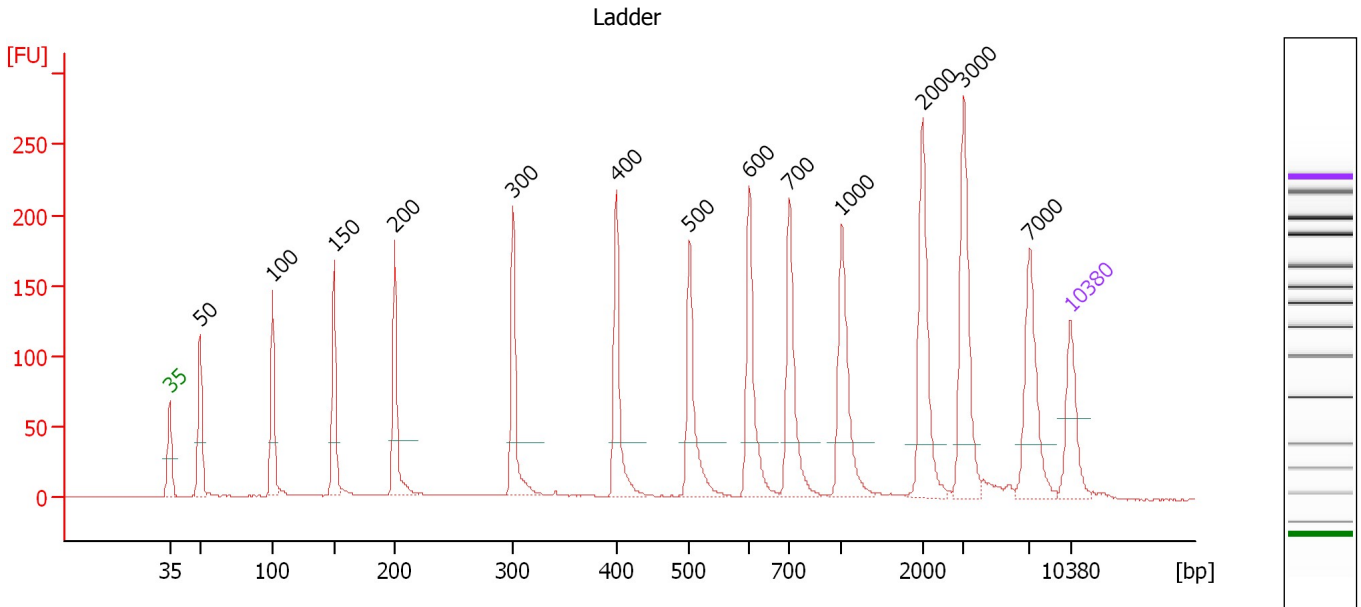
Ladder

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\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

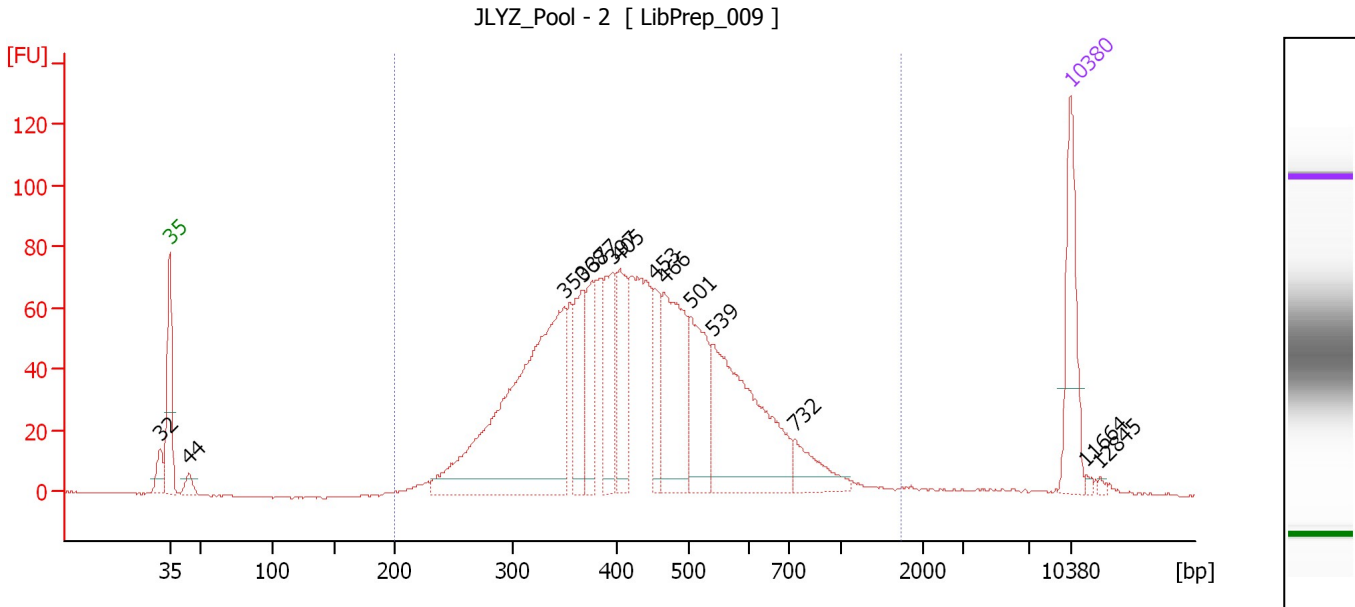
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	51.02
4	150	150.00	1,515.2	Ladder Peak	55.79
5	200	150.00	1,136.4	Ladder Peak	60.51
6	300	150.00	757.6	Ladder Peak	69.67
7	400	150.00	568.2	Ladder Peak	77.69
8	500	150.00	454.5	Ladder Peak	83.40
9	600	150.00	378.8	Ladder Peak	88.03
10	700	150.00	324.7	Ladder Peak	91.19
11	1,000	150.00	227.3	Ladder Peak	95.25
12	2,000	150.00	113.6	Ladder Peak	101.53
13	3,000	150.00	75.8	Ladder Peak	104.74
14	7,000	150.00	32.5	Ladder Peak	109.84
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
 Modified: 6/21/2018 9:11:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : JLYZ_Pool - 2

Number of peaks found: 14 Corr. Area 1: 1,751.9
 Noise: 0.2

Peak table for sample 1 : JLYZ_Pool - 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.28
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	16.58	564.9		44.49
4	350	472.72	2,048.5		73.65
5	368	88.09	362.5		75.14
6	377	68.49	275.6		75.81
7	397	86.31	329.5		77.45
8	405	95.26	356.4		77.98
9	453	56.18	187.9		80.71
10	466	159.73	519.9		81.44
11	501	109.26	330.4		83.45
12	539	233.67	656.3		85.23
13	732	44.78	92.7		91.62
14	10,380	75.00	10.9	Upper Marker	113.00
15	11,664	0.00	0.0		114.20
16	12,845	0.00	0.0		115.31

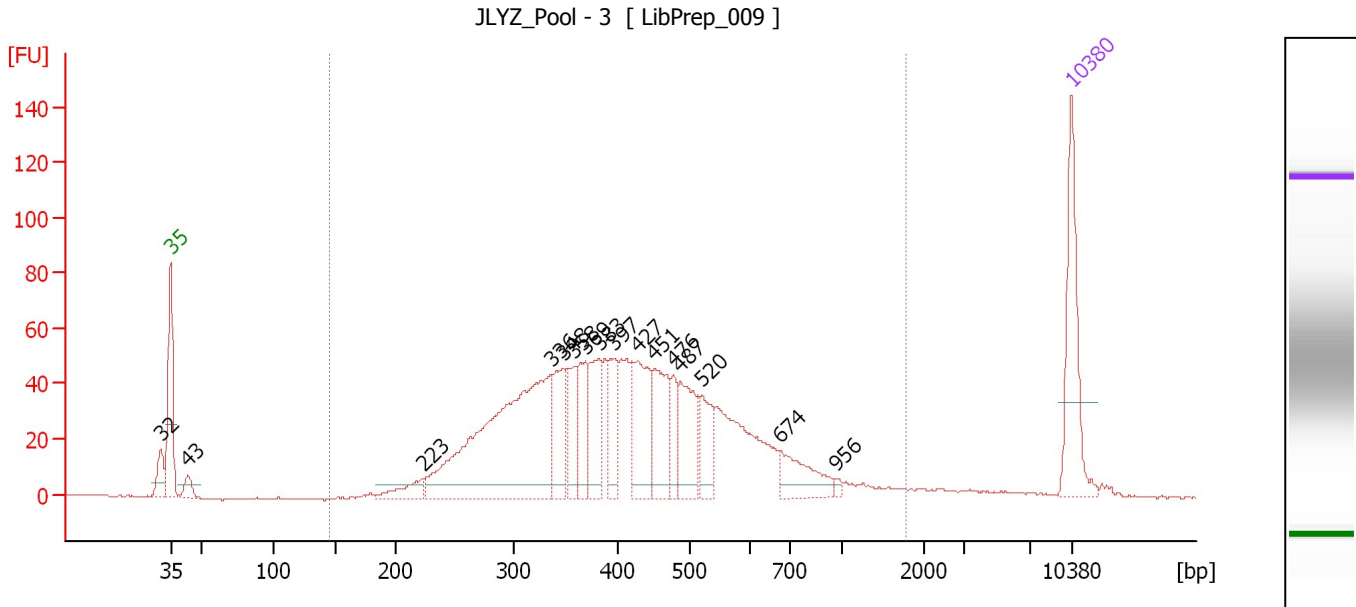
Region table for sample 1 : JLYZ_Pool - 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,737	453	1,780.99	1,751.9	6,735.1	95	35.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
 Modified: 6/21/2018 9:11:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : JLYZ_Pool - 3

Number of peaks found: 16 Corr. Area 1: 1,364.9
 Noise: 0.3

Peak table for sample 2 : JLYZ_Pool - 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.22
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	18.37	642.1		44.31
4	223	24.60	167.3		62.60
5	336	356.05	1,604.5		72.58
6	348	64.60	281.0		73.55
7	358	47.25	199.9		74.33
8	369	53.28	218.8		75.20
9	383	64.52	255.3		76.32
10	397	48.73	185.7		77.49
11	427	85.76	304.3		79.24
12	451	74.21	249.3		80.60
13	476	29.94	95.2		82.06
14	487	67.23	209.3		82.65
15	520	42.85	124.8		84.35
16	674	45.74	102.8		90.38
17	956	3.26	5.2		94.66
18	10,380	75.00	10.9	Upper Marker	113.00

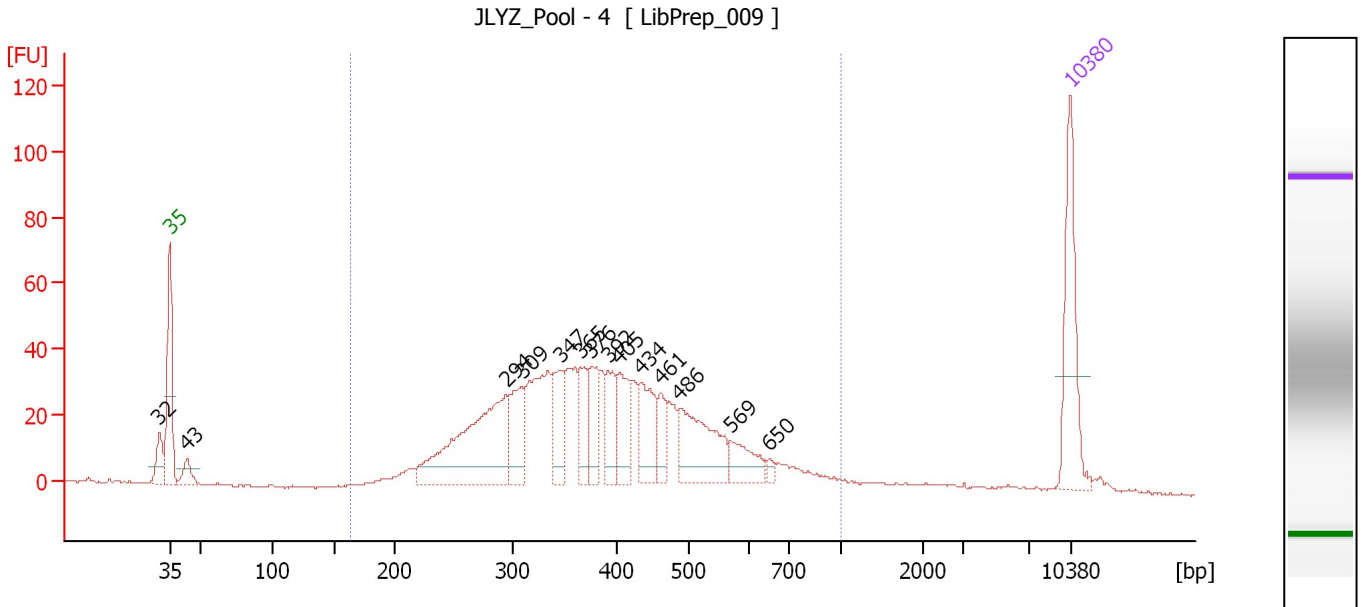
Region table for sample 2 : JLYZ_Pool - 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
145	1,774	445	1,255.98	1,364.9	5,004.6	95	42.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : JLYZ_Pool - 4

Number of peaks found: 14 Corr. Area 1: 954.3
 Noise: 0.3

Peak table for sample 3 : JLYZ_Pool - 4

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	43	22.28	776.1		44.34
4	294	198.80	1,024.5		69.12
5	309	57.62	282.4		70.41
6	347	52.54	229.2		73.47
7	365	36.29	150.5		74.91
8	376	43.17	173.8		75.80
9	392	42.09	162.5		77.08
10	405	48.71	182.3		77.98
11	434	55.29	192.8		79.66
12	461	25.78	84.7		81.19
13	486	89.25	278.1		82.63
14	569	33.47	89.2		86.58
15	650	5.40	12.6		89.60
16	10,380	75.00	10.9	Upper Marker	113.00

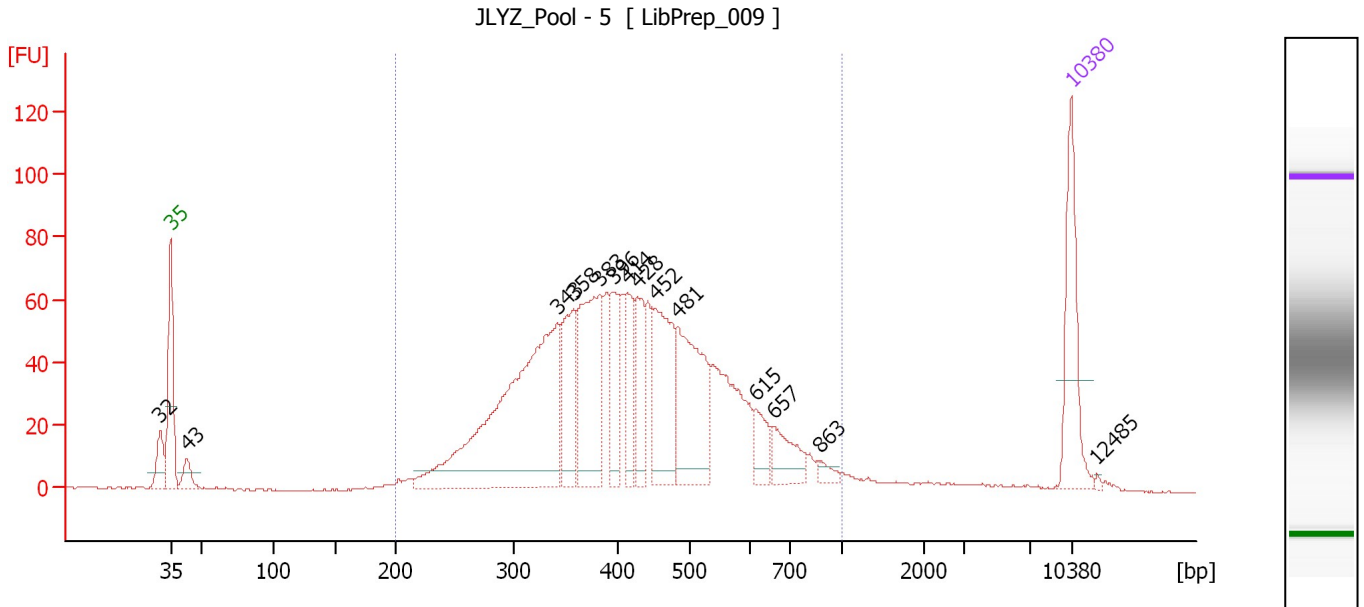
Region table for sample 3 : JLYZ_Pool - 4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
163	1,000	405	1,058.98	954.3	4,479.4	92	31.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
 Modified: 6/21/2018 9:11:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : JLYZ_Pool - 5

Number of peaks found: 14 Corr. Area 1: 1,540.2
 Noise: 0.3

Peak table for sample 4 : JLYZ_Pool - 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.19
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	26.31	926.6		44.26
4	343	416.22	1,839.8		73.10
5	358	91.86	388.9		74.31
6	383	163.44	646.5		76.33
7	396	57.74	220.8		77.39
8	414	51.86	189.7		78.51
9	428	57.92	204.9		79.31
10	452	119.90	401.7		80.68
11	481	149.98	472.0		82.34
12	615	28.38	69.9		88.51
13	657	40.51	93.5		89.82
14	863	8.65	15.2		93.40
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,485	0.00	0.0		114.97

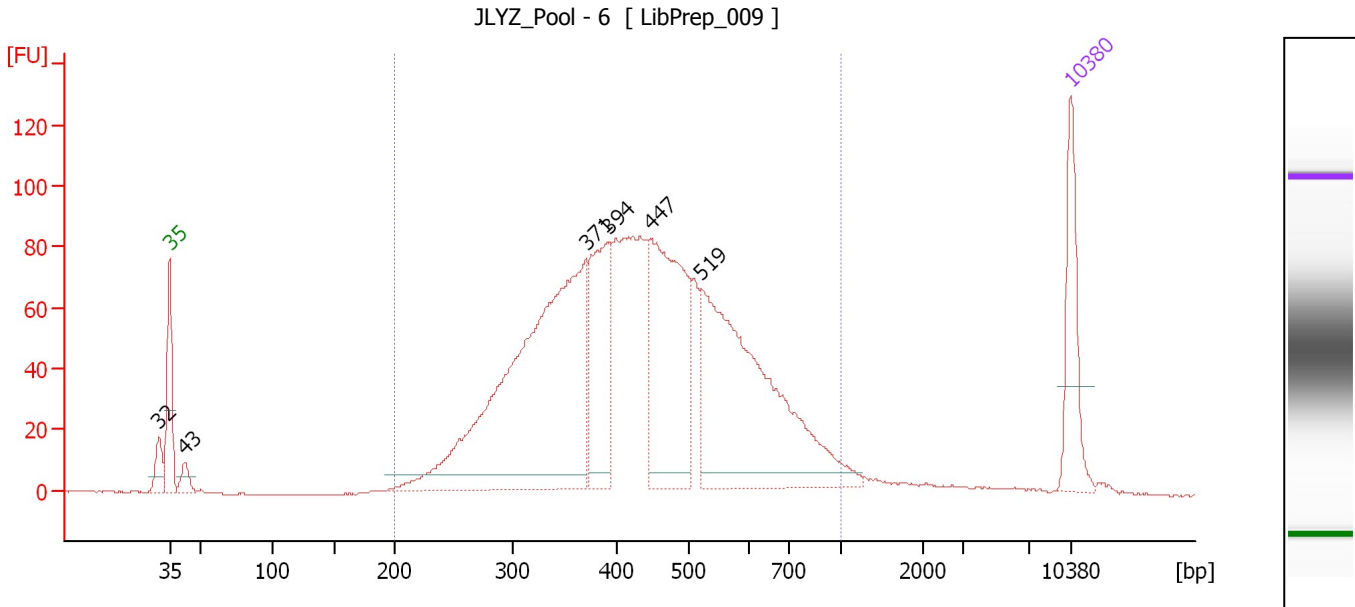
Region table for sample 4 : JLYZ_Pool - 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	435	1,597.30	1,540.2	6,214.6	92	29.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
 Modified: 6/21/2018 9:11:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : JLYZ_Pool - 6

Number of peaks found: 6 Corr. Area 1: 2,084.6
 Noise: 0.3

Peak table for sample 5 : JLYZ_Pool - 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.17
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	24.18	860.7		44.19
4	371	653.03	2,665.0		75.39
5	394	173.73	668.4		77.20
6	447	304.92	1,034.5		80.35
7	519	442.15	1,290.7		84.29
8	10,380	75.00	10.9	Upper Marker	113.00

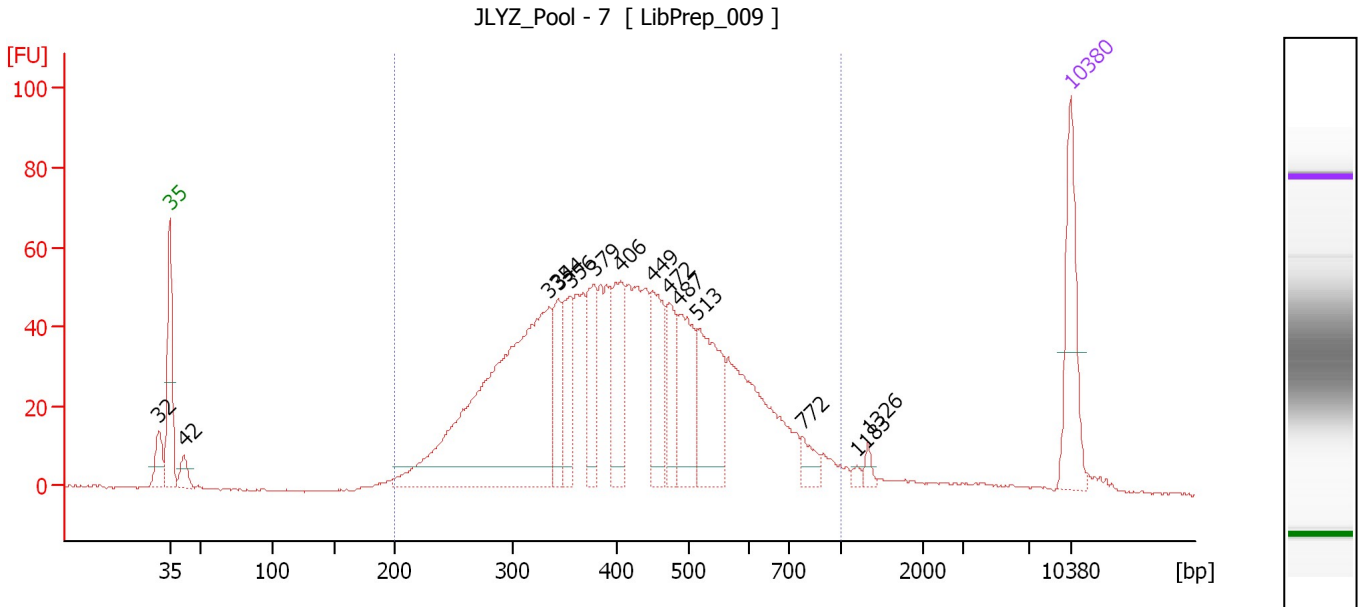
Region table for sample 5 : JLYZ_Pool - 6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	449	2,040.55	2,084.6	7,724.1	94	30.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
 Modified: 6/21/2018 9:11:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : JLYZ_Pool - 7

Number of peaks found: 14 Corr. Area 1: 1,418.0
 Noise: 0.3

Peak table for sample 6 : JLYZ_Pool - 7

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	42	24.75	891.5		44.11
4	335	516.07	2,332.0		72.50
5	344	67.40	297.0		73.19
6	356	67.07	285.7		74.14
7	379	76.06	304.2		75.99
8	406	91.18	340.0		78.05
9	449	90.41	305.2		80.48
10	472	61.96	198.9		81.81
11	487	90.15	280.6		82.65
12	513	121.06	357.2		84.03
13	772	18.52	36.3		92.17
14	1,183	4.05	5.2		96.40
15	1,326	6.93	7.9		97.30
16	10,380	75.00	10.9	Upper Marker	113.00

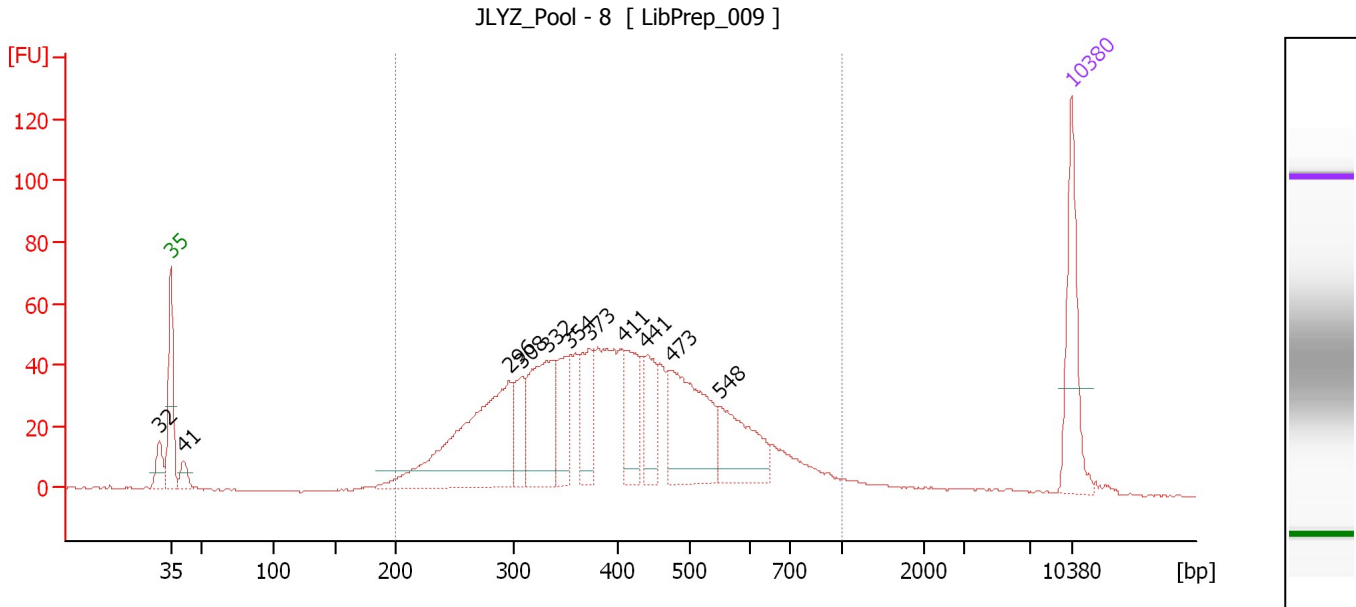
Region table for sample 6 : JLYZ_Pool - 7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	432	1,849.94	1,418.0	7,377.6	92	31.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
 Modified: 6/21/2018 9:11:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : JLYZ_Pool - 8

Number of peaks found: 11 Corr. Area 1: 1,270.0
 Noise: 0.3

Peak table for sample 7 : JLYZ_Pool - 8

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	41	21.47	784.4		44.02
4	296	275.86	1,412.3		69.30
5	308	48.72	239.6		70.31
6	332	138.61	632.4		72.24
7	354	68.50	293.1		74.01
8	373	68.58	278.7		75.51
9	411	69.37	256.0		78.29
10	441	53.07	182.5		80.01
11	473	151.13	483.8		81.88
12	548	87.27	241.2		85.63
13	10,380	75.00	10.9	Upper Marker	113.00

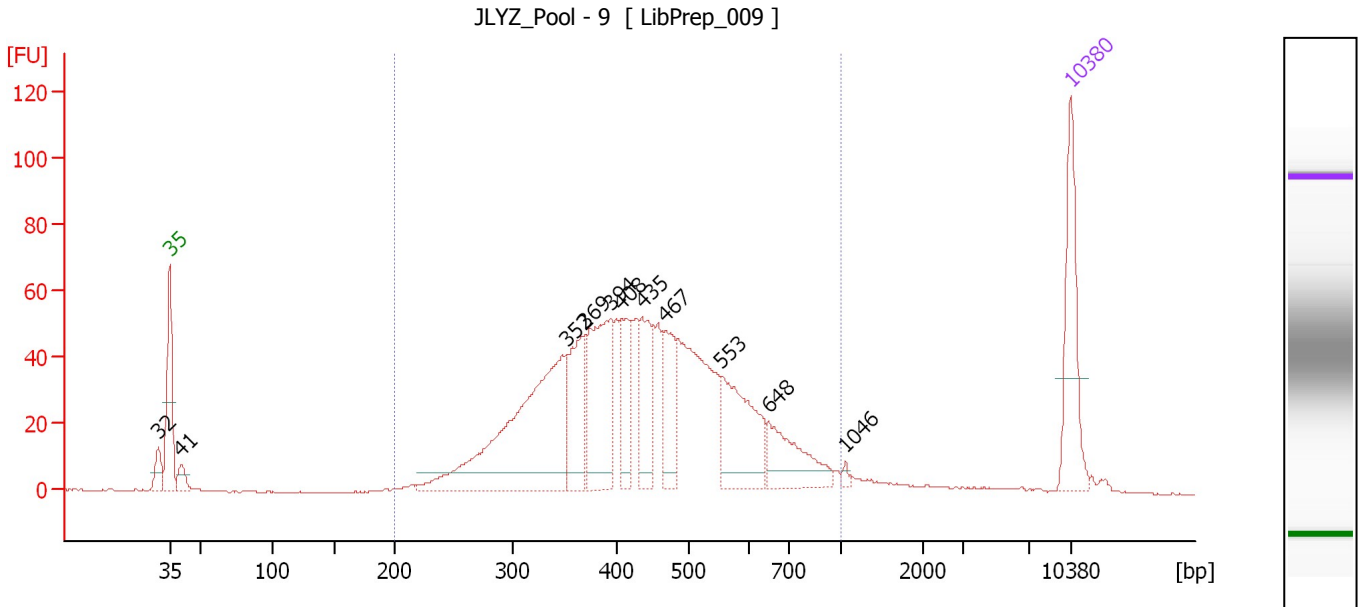
Region table for sample 7 : JLYZ_Pool - 8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	418	1,363.46	1,270.0	5,610.3	93	31.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
 Modified: 6/21/2018 9:11:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : JLYZ_Pool - 9

Number of peaks found: 11 Corr. Area 1: 1,215.7
 Noise: 0.2

Peak table for sample 8 : JLYZ_Pool - 9

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	41	17.72	657.3		43.92
4	352	309.61	1,334.2		73.81
5	369	89.10	365.7		75.22
6	394	138.11	531.0		77.22
7	408	51.87	192.7		78.14
8	435	75.06	261.3		79.70
9	467	61.28	198.7		81.54
10	553	110.06	301.4		85.86
11	648	67.05	156.8		89.54
12	1,046	3.43	5.0		95.54
13	10,380	75.00	10.9	Upper Marker	113.00

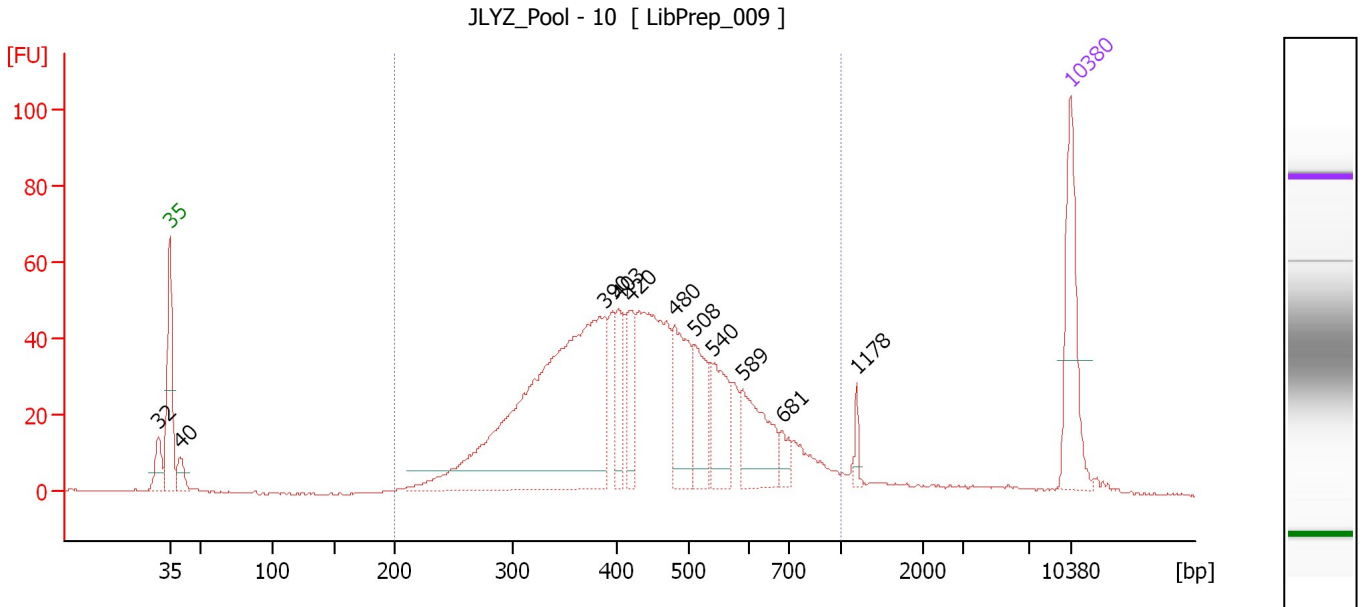
Region table for sample 8 : JLYZ_Pool - 9

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	451	1,297.88	1,215.7	4,848.5	92	29.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
 Modified: 6/21/2018 9:11:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : JLYZ_Pool - 10

Number of peaks found: 11 Corr. Area 1: 1,109.1
 Noise: 0.2

Peak table for sample 9 : JLYZ_Pool - 10

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	40	22.33	841.5		43.82
4	390	516.58	2,009.2		76.86
5	403	50.57	190.4		77.84
6	420	49.72	179.5		78.82
7	480	94.17	297.4		82.25
8	508	61.89	184.6		83.78
9	540	61.97	173.9		85.25
10	589	76.58	196.9		87.54
11	681	16.18	36.0		90.59
12	1,178	9.15	11.8		96.37
13	10,380	75.00	10.9	Upper Marker	113.00

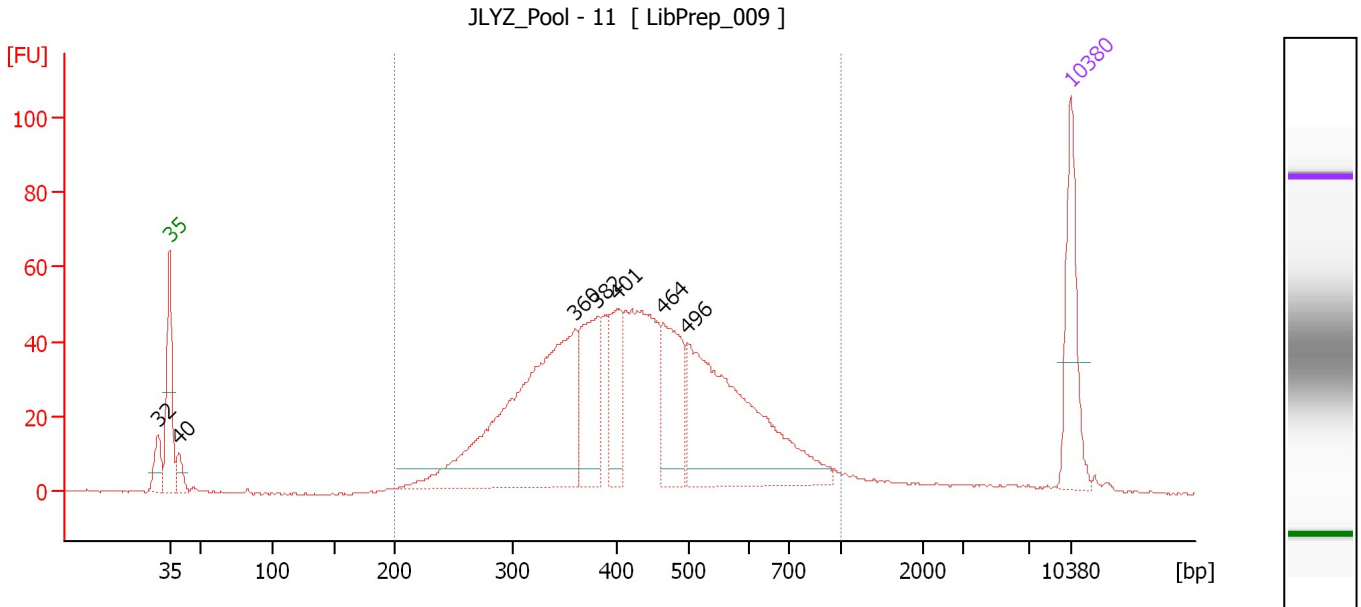
Region table for sample 9 : JLYZ_Pool - 10

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	449	1,361.52	1,109.1	5,108.1	91	29.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
 Modified: 6/21/2018 9:11:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : JLYZ Pool - 11

Number of peaks found: 7 Corr. Area 1: 1,172.3
 Noise: 0.3

Peak table for sample 10 : JLYZ Pool - 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.07
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	24.08	922.6		43.71
4	360	421.12	1,770.5		74.51
5	382	117.86	467.1		76.27
6	401	81.59	308.3		77.75
7	464	111.12	363.2		81.32
8	496	320.81	979.6		83.19
9	10,380	75.00	10.9	Upper Marker	113.00

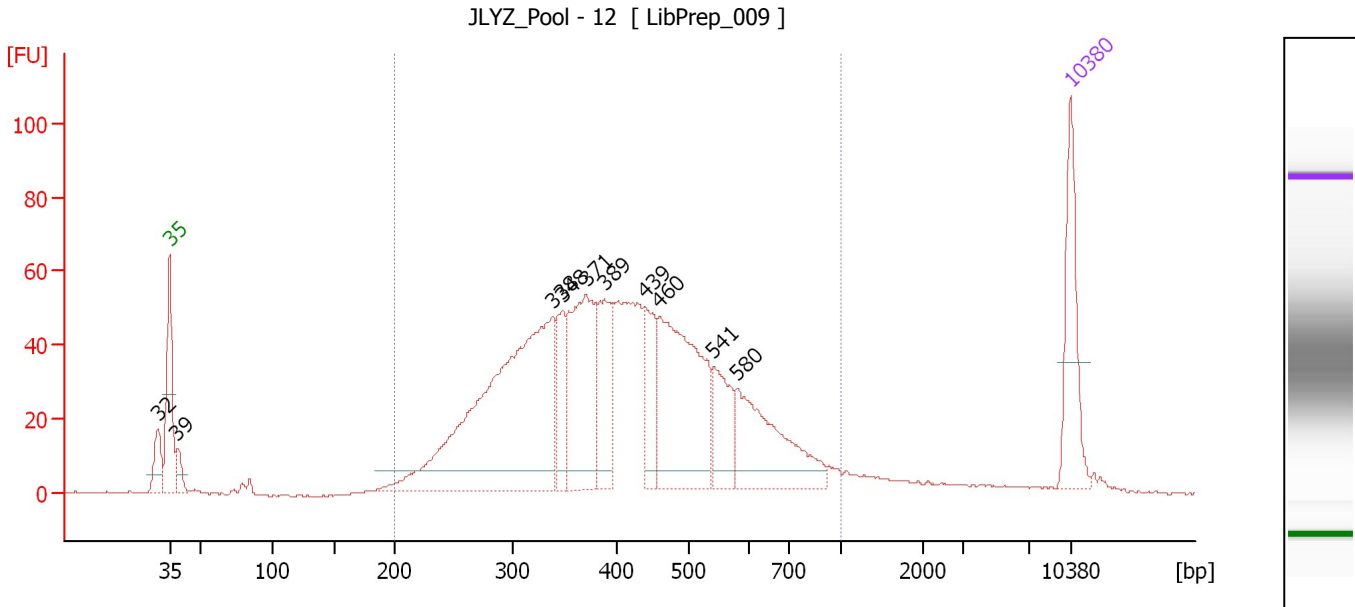
Region table for sample 10 : JLYZ Pool - 11

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	443	1,421.99	1,172.3	5,444.2	91	29.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
 Modified: 6/21/2018 9:11:59 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : JLYZ Pool - 12

Number of peaks found: 10 Corr. Area 1: 1,380.8
 Noise: 0.3

Peak table for sample 11 : JLYZ Pool - 12

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	39	24.53	956.6		43.61
4	338	508.35	2,275.6		72.76
5	348	57.37	249.7		73.53
6	371	181.08	739.9		75.35
7	389	103.07	401.1		76.84
8	439	69.13	238.5		79.93
9	460	242.59	799.9		81.09
10	541	66.88	187.4		85.29
11	580	135.38	353.6		87.11
12	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : JLYZ Pool - 12

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	427	1,694.91	1,380.8	6,812.9	91	31.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-06-21\2018-06-21_001.xad

Created: 6/21/2018 8:30:40 AM
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Gel Image

