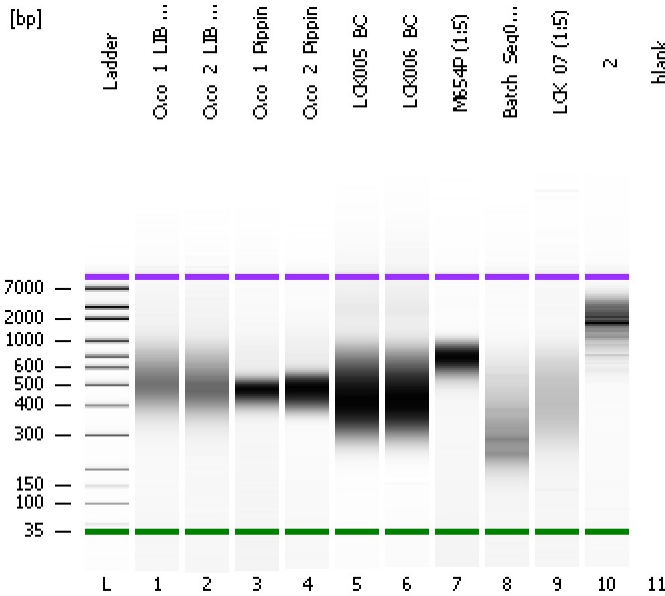


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
 Modified: 4/19/2018 5:09:19 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

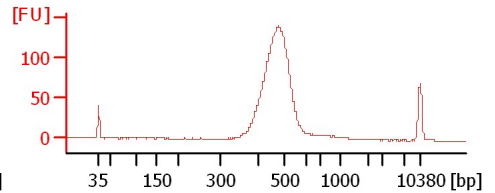
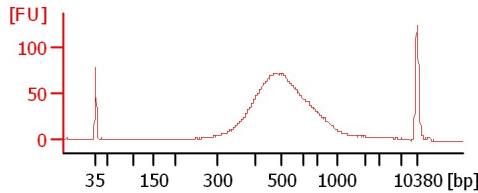
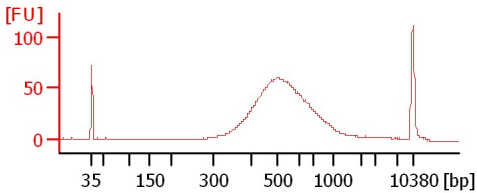
Chip Information:

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

O.co_1_LIB (1:10)

O.co_2_LIB (1:10)

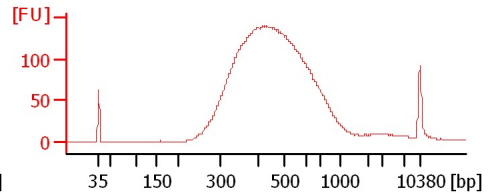
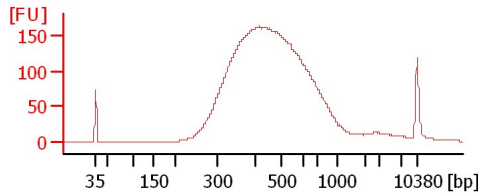
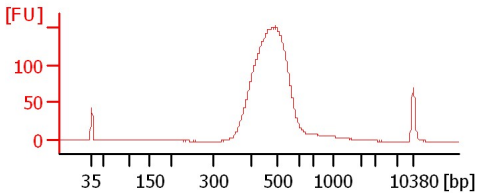
O.co_1_Pippin



O.co_2_Pippin

LCK005_BC

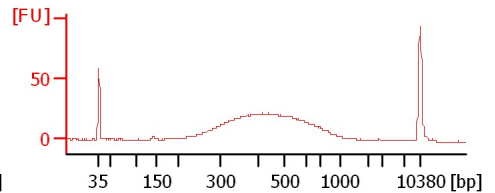
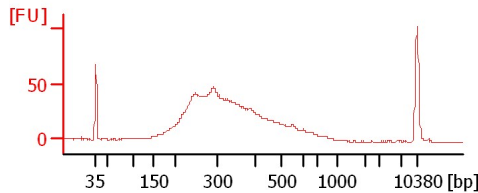
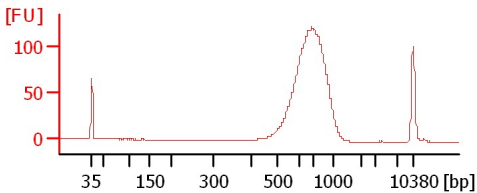
LCK006_BC



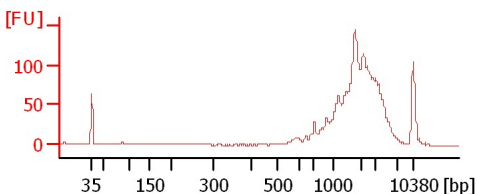
M654P (1:5)

Batch_Seq03 (1:2)

LCK_07 (1:5)



2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
Modified: 4/19/2018 5:09:19 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
O.co_1_LIB (1:10)		<input type="checkbox"/>	✓			
O.co_2_LIB (1:10)		<input type="checkbox"/>	✓			
O.co_1_Pippin		<input type="checkbox"/>	✓			
O.co_2_Pippin		<input type="checkbox"/>	✓			
LCK005_BC		<input type="checkbox"/>	✓			
LCK006_BC		<input type="checkbox"/>	✓			
M654P (1:5)		<input type="checkbox"/>	✓			
Batch_Seq03 (1:2)		<input type="checkbox"/>	✓			
LCK_07 (1:5)		<input type="checkbox"/>	✓			
2		<input type="checkbox"/>	✓			
blank		<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\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
Modified: 4/19/2018 5:09:19 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

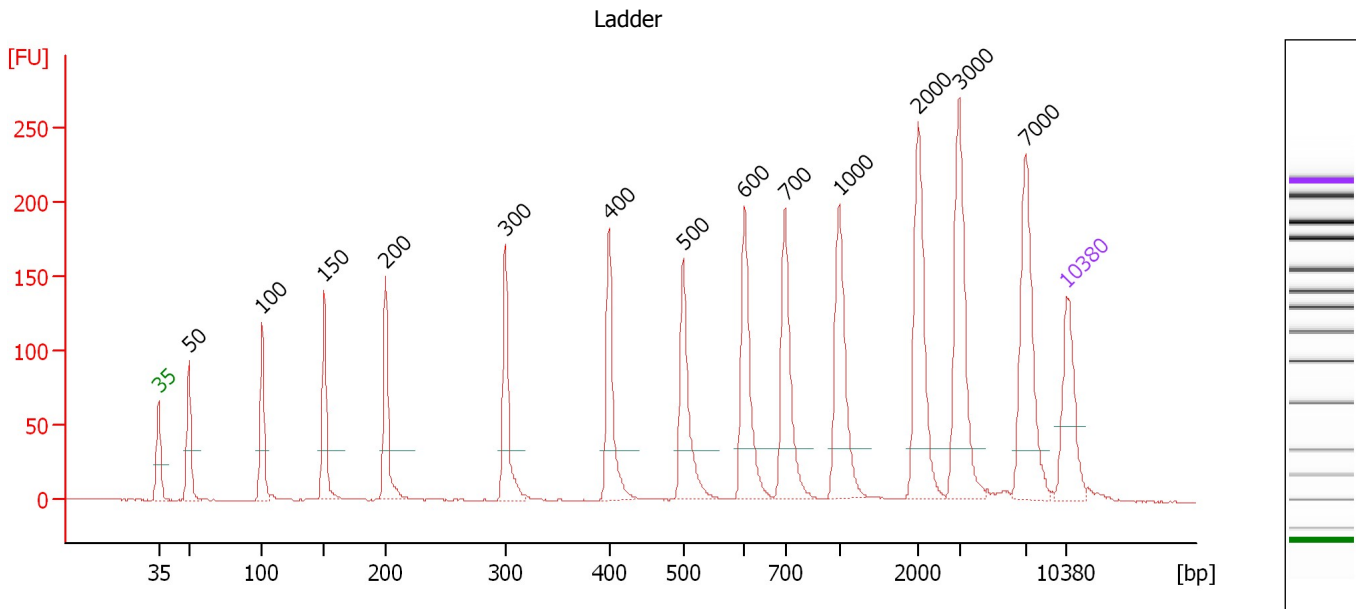
Ladder

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\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
 Modified: 4/19/2018 5:09:19 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

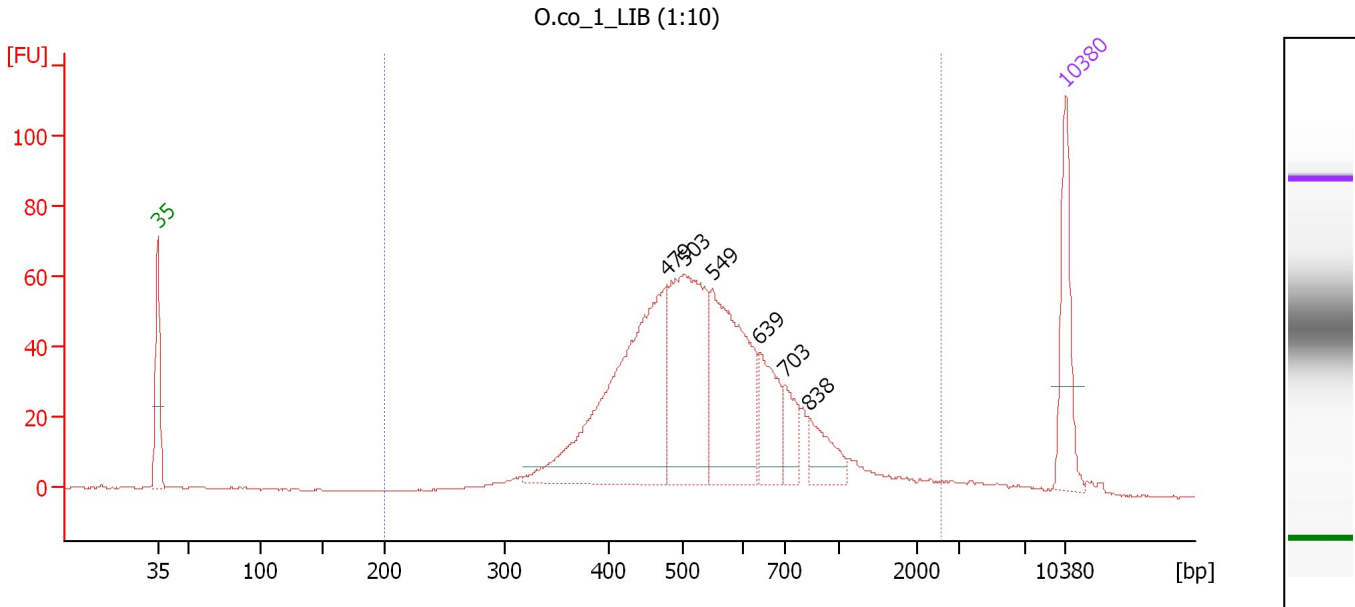
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	51.01
4	150	150.00	1,515.2	Ladder Peak	55.78
5	200	150.00	1,136.4	Ladder Peak	60.50
6	300	150.00	757.6	Ladder Peak	69.71
7	400	150.00	568.2	Ladder Peak	77.72
8	500	150.00	454.5	Ladder Peak	83.42
9	600	150.00	378.8	Ladder Peak	88.19
10	700	150.00	324.7	Ladder Peak	91.29
11	1,000	150.00	227.3	Ladder Peak	95.45
12	2,000	150.00	113.6	Ladder Peak	101.56
13	3,000	150.00	75.8	Ladder Peak	104.71
14	7,000	150.00	32.5	Ladder Peak	109.81
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
 Modified: 4/19/2018 5:09:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : O.co_1_LIB (1:10)

Number of peaks found: 6 Corr. Area 1: 1,108.5
 Noise: 0.2

Peak table for sample 1 : O.co_1_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	479	411.64	1,302.0		82.22
3	503	271.51	817.1		83.58
4	549	237.42	655.5		85.74
5	639	77.42	183.5		89.40
6	703	42.92	92.6		91.32
7	838	46.91	84.8		93.20
8	10,380	75.00	10.9	Upper Marker	113.00

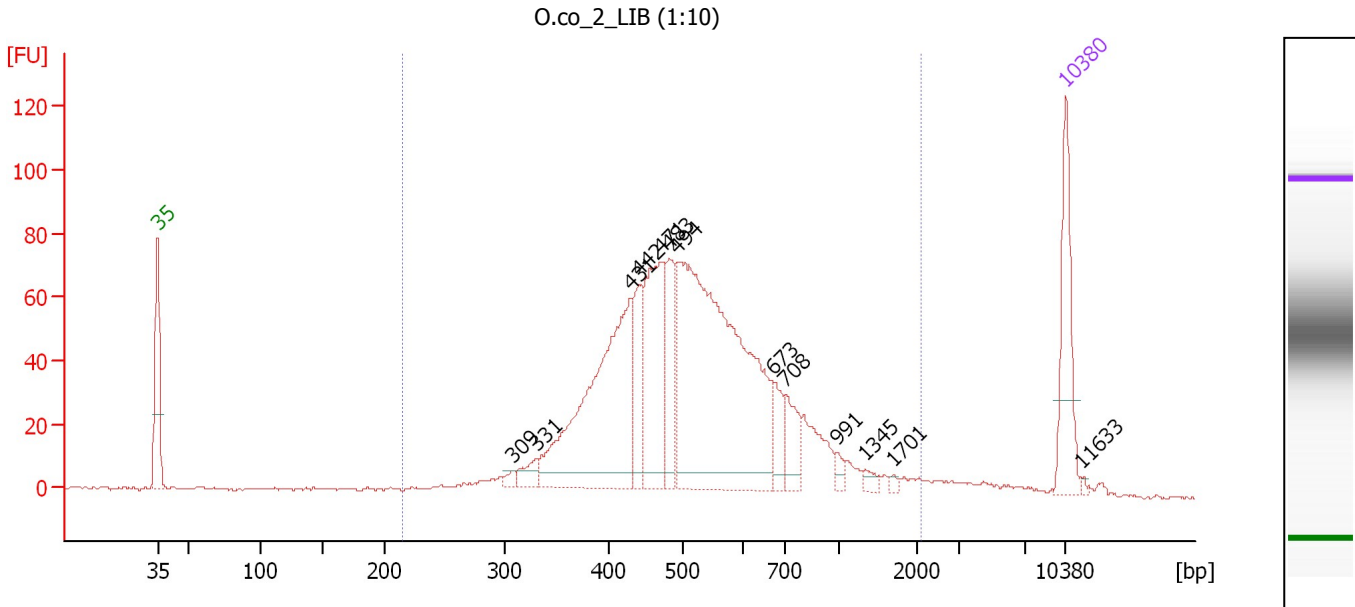
Region table for sample 1 : O.co_1_LIB (1:10)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	2,567	594	1,292.45	1,108.5	3,843.7	95	47.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
 Modified: 4/19/2018 5:09:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : O.co 2 LIB (1:10)

Number of peaks found: 13 Corr. Area 1: 1,334.8
 Noise: 0.4

Peak table for sample 2 : O.co 2 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	309	7.43	36.4		70.42
3	331	19.63	89.7		72.22
4	431	328.70	1,154.2		79.52
5	442	63.29	216.8		80.13
6	471	167.84	539.4		81.79
7	483	65.68	206.0		82.45
8	494	549.03	1,684.4		83.07
9	673	34.20	77.0		90.46
10	708	38.81	83.0		91.40
11	991	8.85	13.5		95.33
12	1,345	7.11	8.0		97.56
13	1,701	3.02	2.7		99.74
14	10,380	75.00	10.9	Upper Marker	113.00
15	11,633	0.00	0.0		114.18

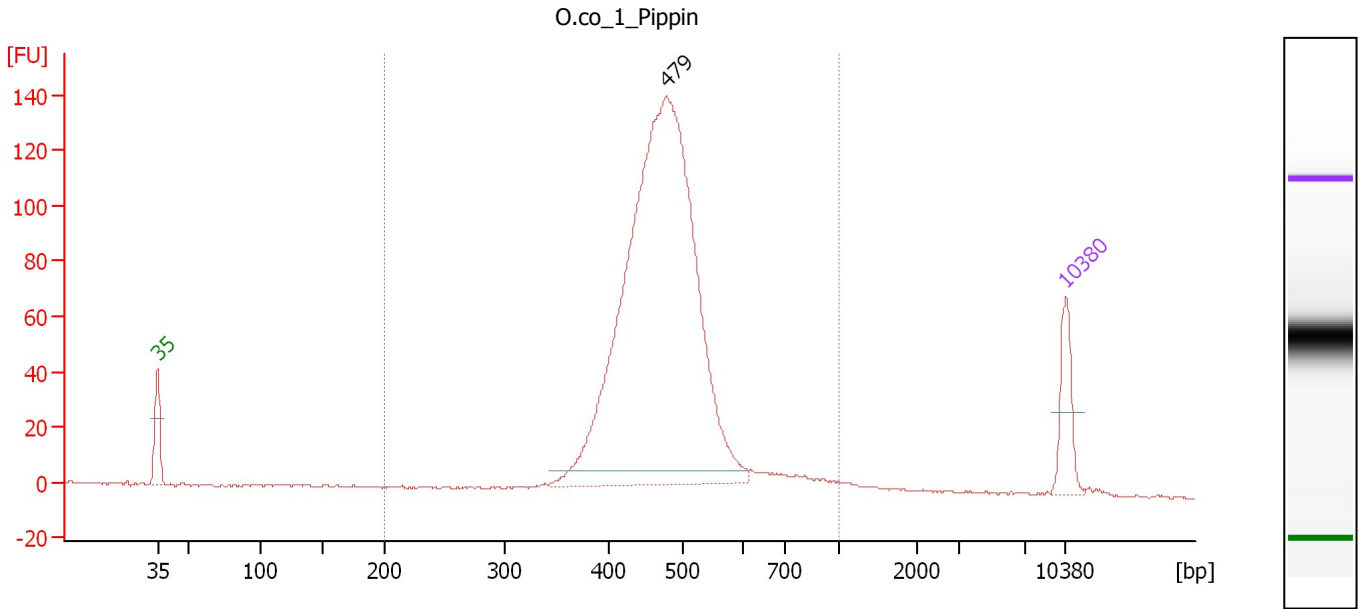
Region table for sample 2 : O.co 2 LIB (1:10)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
215	2,084	558	1,443.23	1,334.8	4,488.9	96	42.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
 Modified: 4/19/2018 5:09:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : O.co_1_Pippin

Number of peaks found: 1 Corr. Area 1: 1,199.4
 Noise: 0.3

Peak table for sample 3 : O.co_1_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	479	1,782.07	5,640.5		82.20
3	10,380	75.00	10.9	Upper Marker	113.00

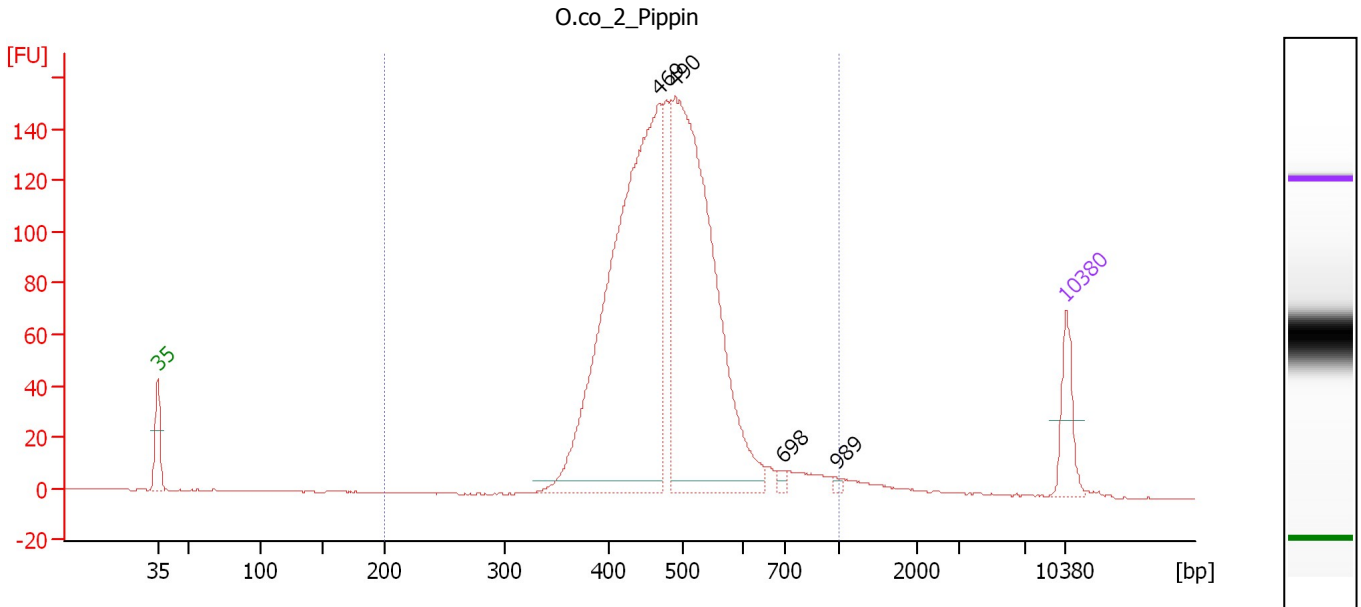
Region table for sample 3 : O.co_1_Pippin

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	482	1,916.75	1,199.4	6,171.8	98	15.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
 Modified: 4/19/2018 5:09:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : O.co_2_Pippin

Number of peaks found: 4 Corr. Area 1: 1,763.8
 Noise: 0.3

Peak table for sample 4 : O.co_2_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	469	1,403.70	4,537.1		81.64
3	490	1,204.87	3,723.0		82.87
4	698	12.16	26.4		91.22
5	989	6.76	10.4		95.30
6	10,380	75.00	10.9	Upper Marker	113.00

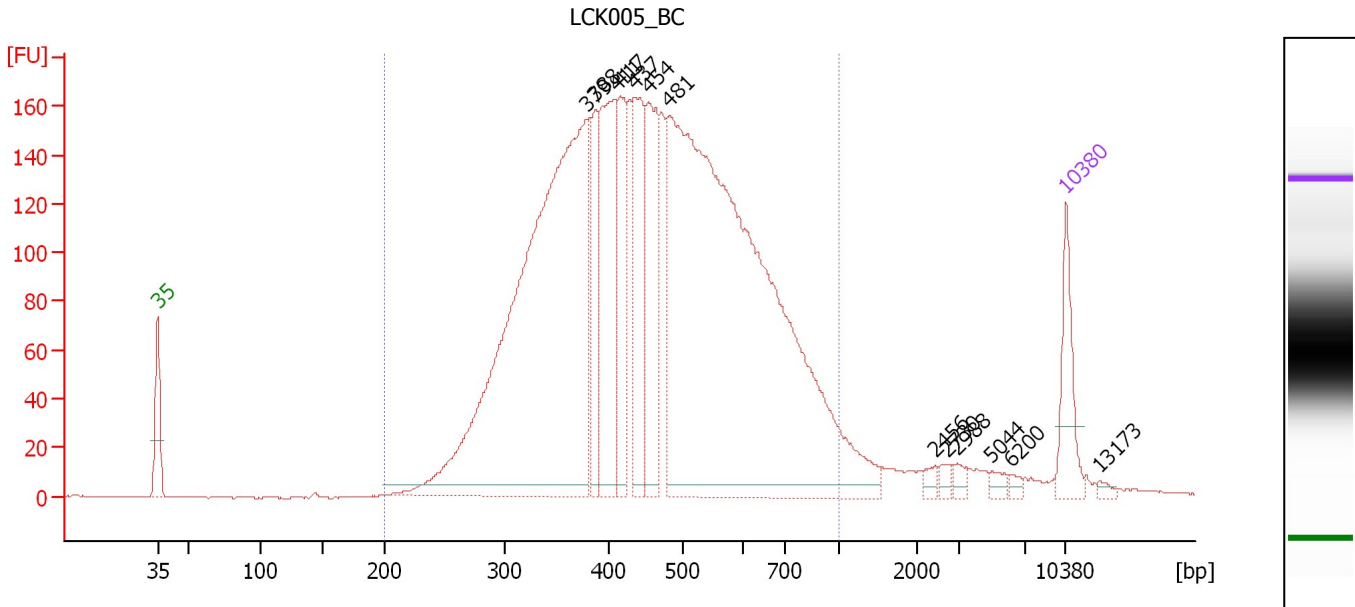
Region table for sample 4 : O.co_2_Pippin

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	487	2,919.65	1,763.8	9,364.1	97	17.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
 Modified: 4/19/2018 5:09:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : LCK005_BC

Number of peaks found: 13 Corr. Area 1: 4,127.8
 Noise: 0.2

Peak table for sample 5 : LCK005_BC

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	379	1,413.48	5,649.7		76.05
3	388	148.94	581.7		76.76
4	411	306.06	1,129.2		78.33
5	417	171.43	623.0		78.69
6	437	213.37	740.6		79.80
7	454	227.84	759.8		80.82
8	481	1,823.03	5,741.4		82.34
9	2,456	11.76	7.3		103.00
10	2,730	9.78	5.4		103.86
11	2,988	10.03	5.1		104.68
12	5,044	10.92	3.3		107.31
13	6,200	7.60	1.9		108.79
14	10,380	75.00	10.9	Upper Marker	113.00
15	13,173	0.00	0.0		115.64

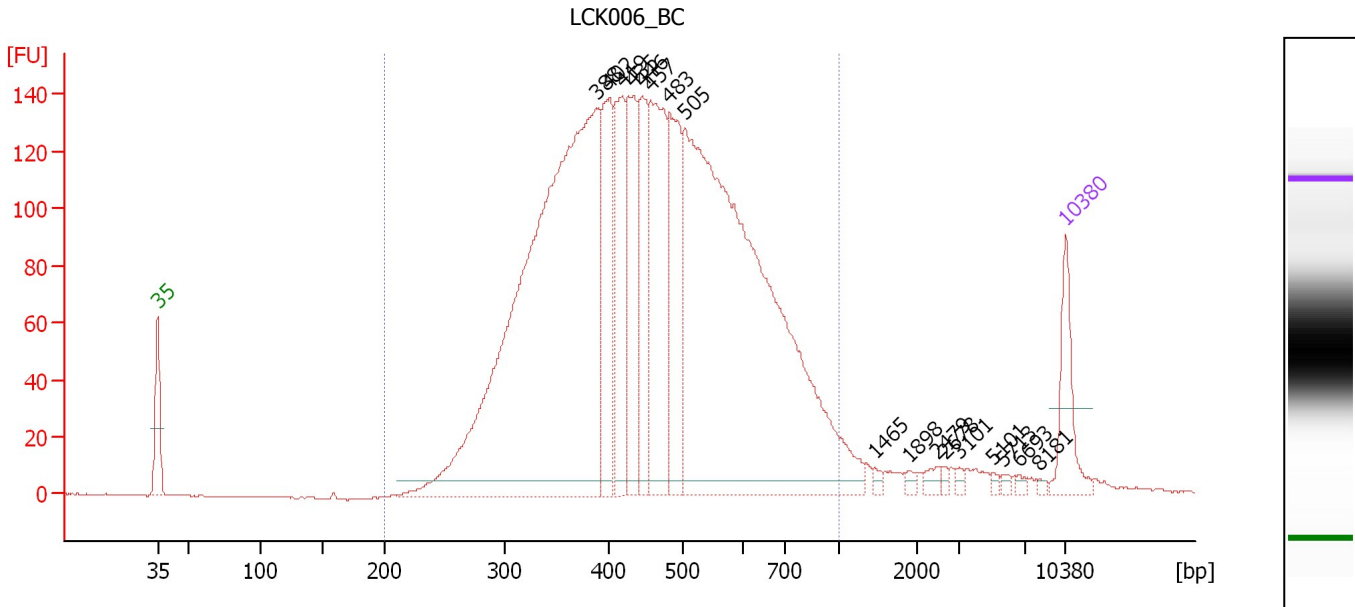
Region table for sample 5 : LCK005_BC

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	473	4,451.93	4,127.8	15,961.2	94	29.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
 Modified: 4/19/2018 5:09:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : LCK006_BC

Number of peaks found: 17 Corr. Area 1: 3,447.4
 Noise: 0.2

Peak table for sample 6 : LCK006_BC

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	388	1,565.71	6,110.7		76.78
3	402	238.75	900.5		77.82
4	419	214.07	774.1		78.81
5	435	212.33	740.3		79.69
6	446	174.55	592.4		80.36
7	457	327.84	1,086.1		80.99
8	483	225.00	706.0		82.44
9	505	1,490.36	4,474.6		83.64
10	1,465	7.10	7.3		98.29
11	1,898	6.78	5.4		100.94
12	2,479	11.27	6.9		103.07
13	2,678	6.15	3.5		103.70
14	3,101	5.73	2.8		104.84
15	5,101	4.39	1.3		107.39
16	5,713	5.09	1.3		108.17
17	6,693	5.93	1.3		109.41
18	8,181	3.31	0.6		110.92
19	10,380	75.00	10.9	Upper Marker	113.00

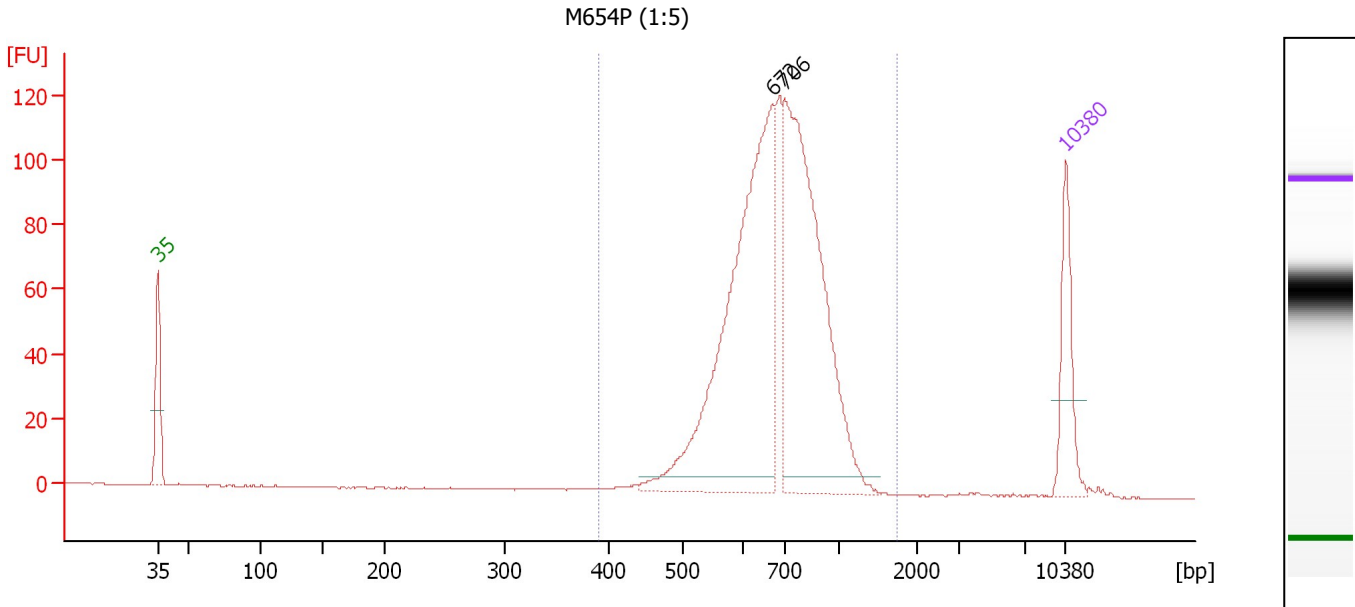
Region table for sample 6 : LCK006_BC

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	472	4,473.09	3,447.4	15,991.9	94	29.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

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 Modified: 4/19/2018 5:09:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : M654P (1:5)

Number of peaks found: 2 Corr. Area 1: 1,047.7
 Noise: 0.2

Peak table for sample 7 : M654P (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	672	591.57	1,333.5		90.42
3	706	514.33	1,103.6		91.37
4	10,380	75.00	10.9	Upper Marker	113.00

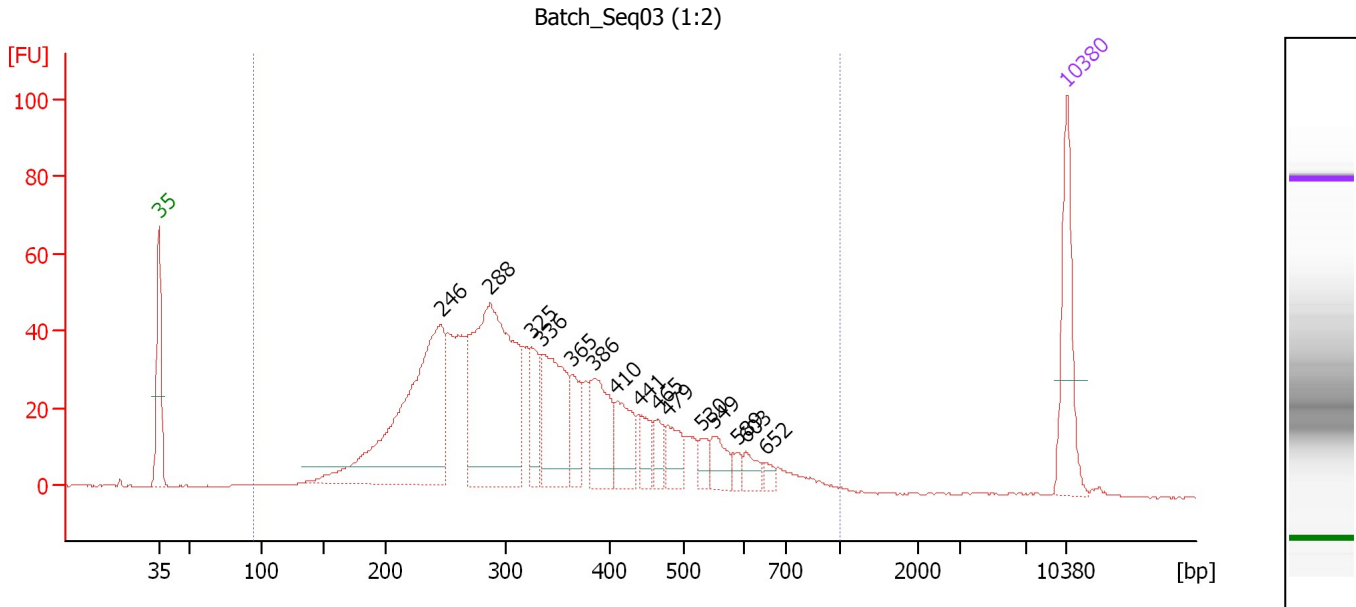
Region table for sample 7 : M654P (1:5)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
392	1,734	714	1,182.45	1,047.7	2,617.0	100	20.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

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 Modified: 4/19/2018 5:09:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Batch_Seq03 (1:2)

Number of peaks found: 15 Corr. Area 1: 1,181.9
 Noise: 0.2

Peak table for sample 8 : Batch_Seq03 (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	246	379.38	2,334.9		64.76
3	288	364.70	1,920.3		68.59
4	325	50.48	235.3		71.72
5	336	133.84	604.0		72.57
6	365	41.92	174.0		74.91
7	386	79.98	313.8		76.62
8	410	53.53	198.0		78.27
9	441	30.29	104.0		80.07
10	465	21.15	69.0		81.40
11	479	34.71	109.9		82.20
12	530	15.88	45.4		84.86
13	549	26.96	74.4		85.77
14	589	8.52	21.9		87.68
15	603	16.13	40.6		88.27
16	652	8.26	19.2		89.81
17	10,380	75.00	10.9	Upper Marker	113.00

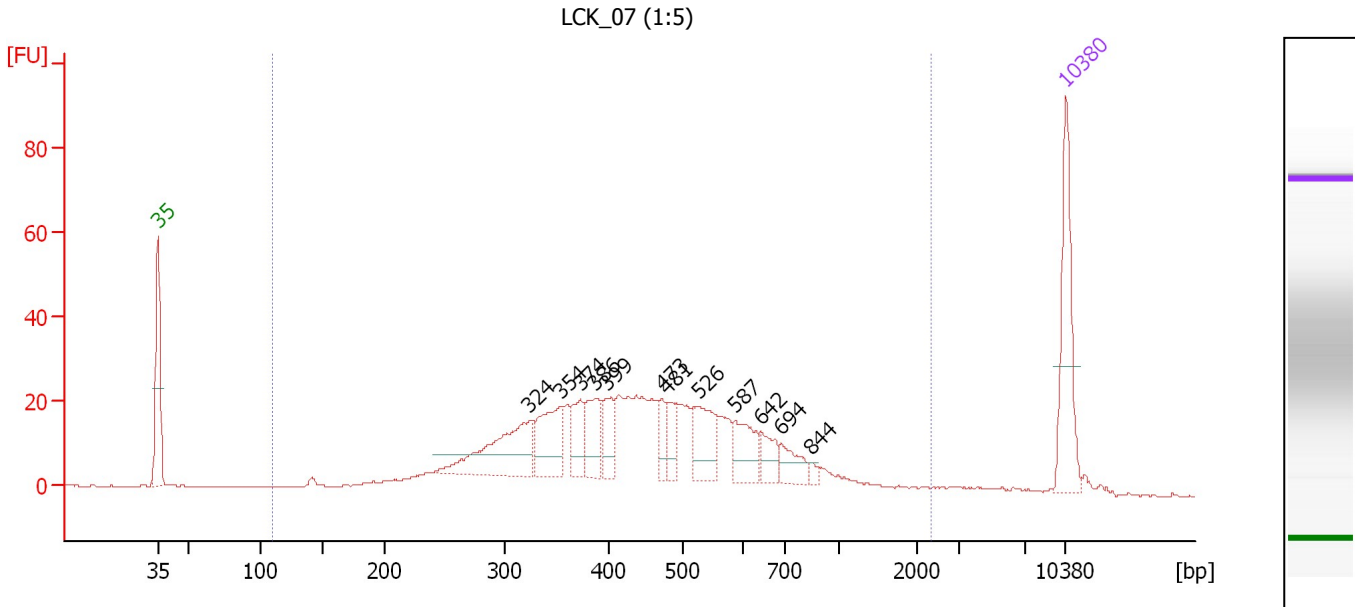
Region table for sample 8 : Batch_Seq03 (1:2)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
94	1,000	347	1,641.58	1,181.9	8,449.9	99	36.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
 Modified: 4/19/2018 5:09:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : LCK_07 (1:5)

Number of peaks found: 12 Corr. Area 1: 652.3
 Noise: 0.2

Peak table for sample 9 : LCK_07 (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	324	111.72	523.2		71.60
3	354	63.64	272.1		74.06
4	374	35.82	145.2		75.62
5	386	43.76	171.6		76.63
6	399	30.40	115.4		77.65
7	473	23.18	74.3		81.88
8	481	24.28	76.5		82.31
9	526	54.75	157.6		84.67
10	587	38.99	100.7		87.56
11	642	23.09	54.5		89.49
12	694	24.67	53.9		91.09
13	844	4.56	8.2		93.29
14	10,380	75.00	10.9	Upper Marker	113.00

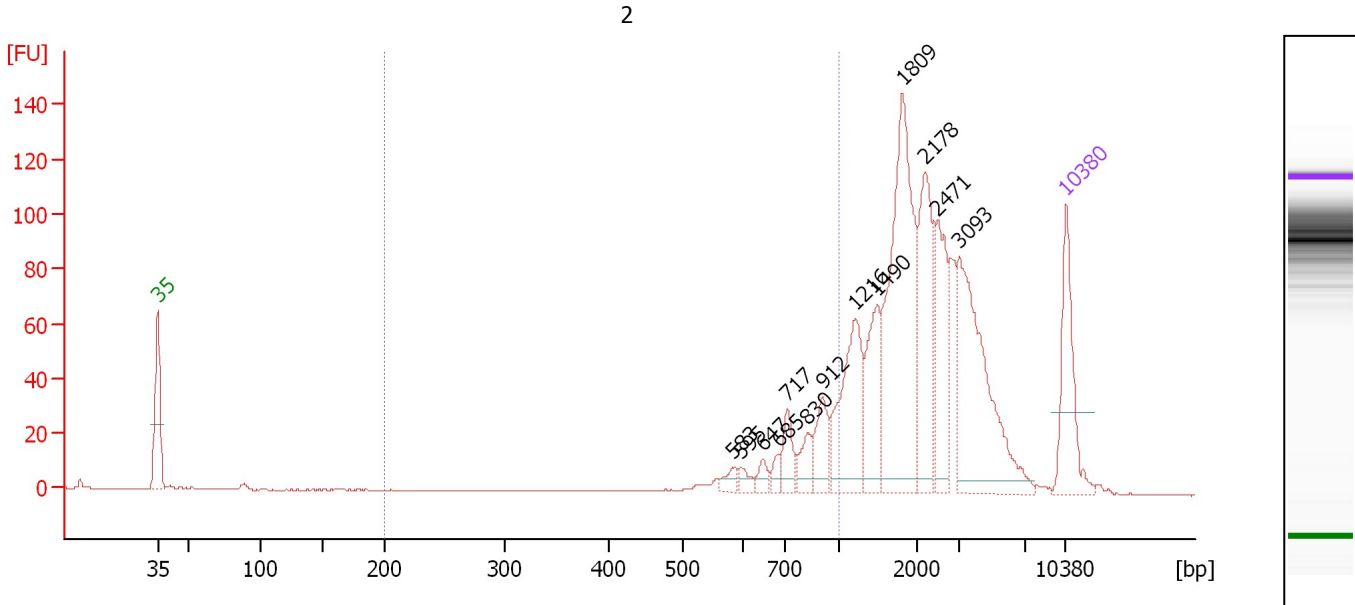
Region table for sample 9 : LCK_07 (1:5)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
110	2,350	487	975.88	652.3	3,802.4	95	50.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

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 Modified: 4/19/2018 5:09:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 2

Number of peaks found: 13 Corr. Area 1: 171.6
 Noise: 0.2

Peak table for sample 10 : 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	583	10.44	27.2		87.36
3	595	10.59	27.0		87.95
4	647	11.51	27.0		89.63
5	685	10.26	22.7		90.82
6	717	28.93	61.1		91.52
7	830	23.35	42.6		93.09
8	912	39.73	66.0		94.23
9	1,216	110.53	137.8		96.77
10	1,490	73.90	75.2		98.45
11	1,809	245.81	205.9		100.40
12	2,178	108.78	75.7		102.13
13	2,471	85.30	52.3		103.05
14	3,093	176.85	86.6		104.83
15	10,380	75.00	10.9	Upper Marker	113.00

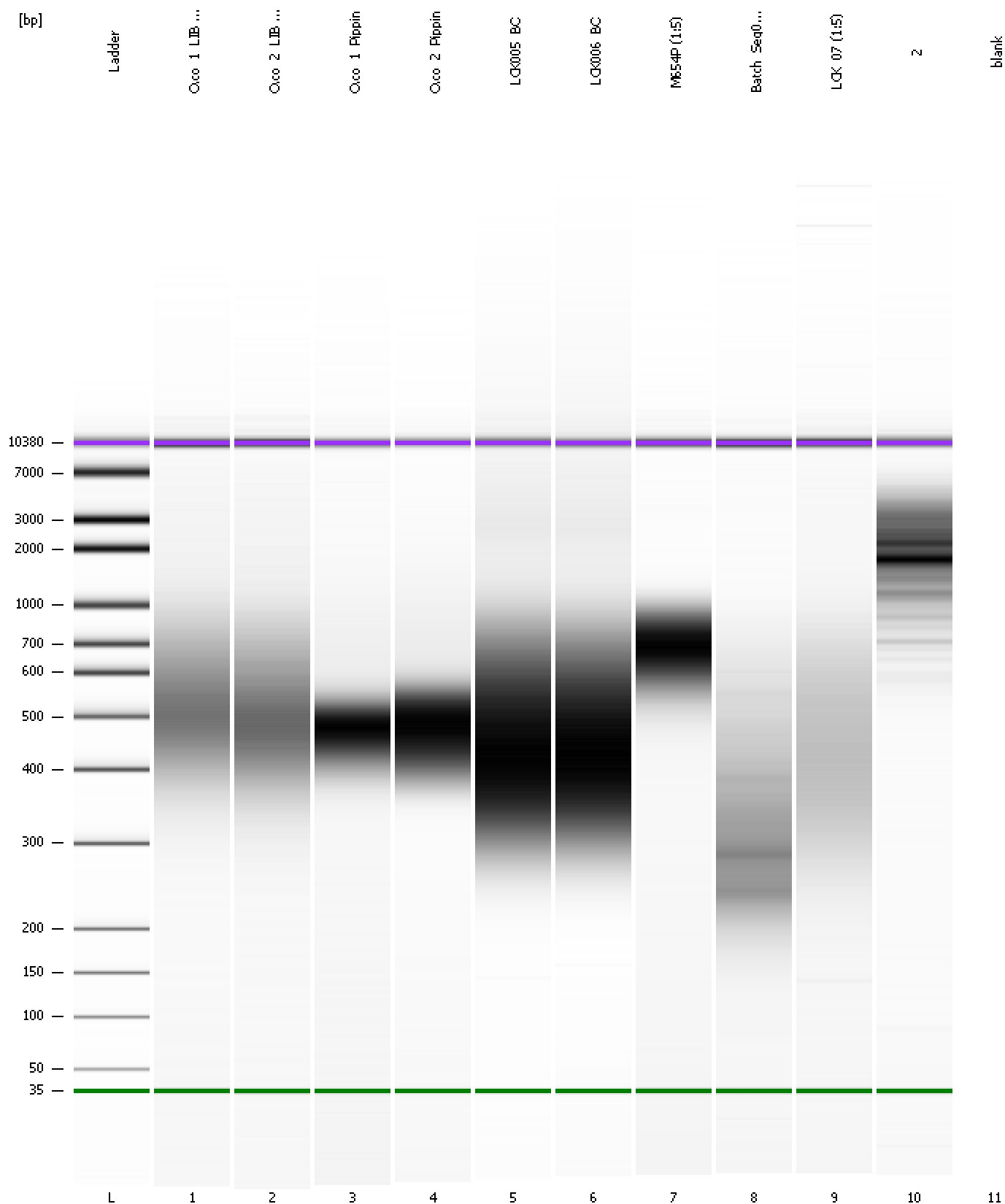
Region table for sample 10 : 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	772	174.86	171.6	361.4	15	19.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
Modified: 4/19/2018 5:09:19 PM

Gel Image

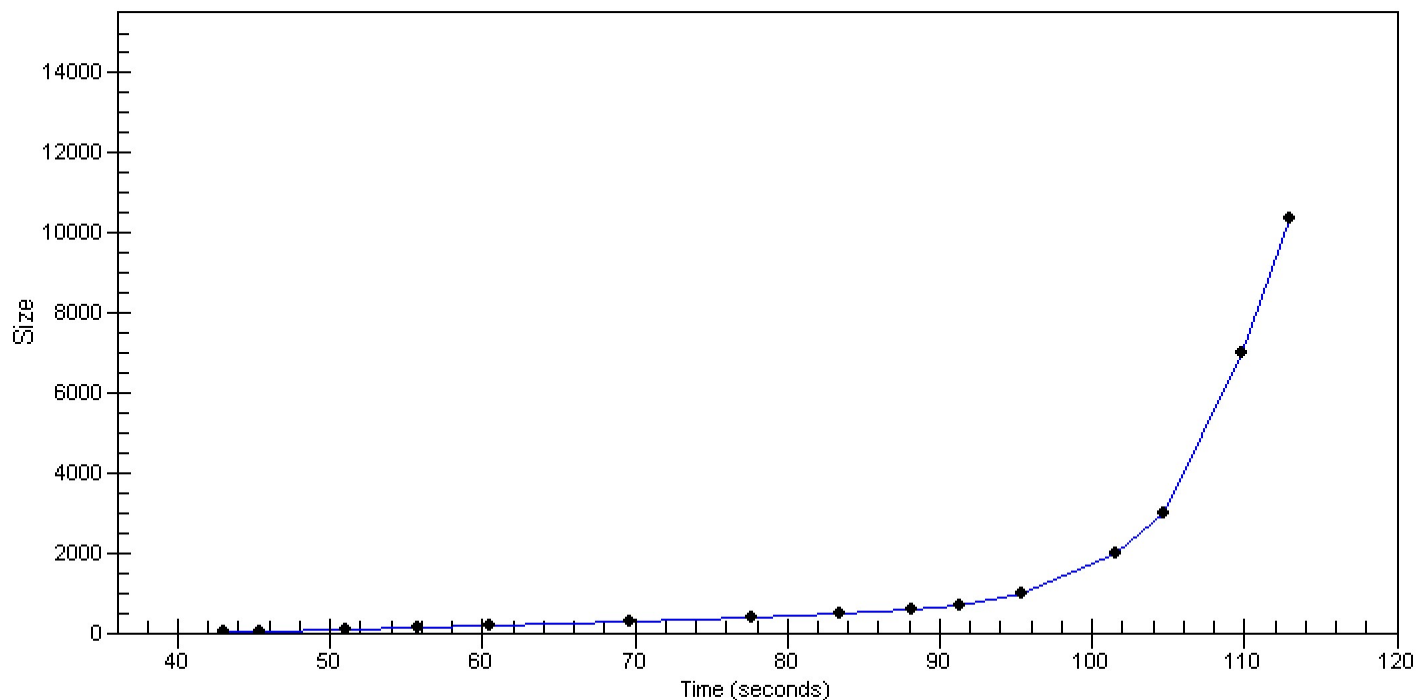


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
Modified: 4/19/2018 5:09:19 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-19\2018-04-19_002.xad

Created: 4/19/2018 4:30:51 PM
Modified: 4/19/2018 5:09:19 PM

Invalid Samples

Sample 11 has not been run, no results available.