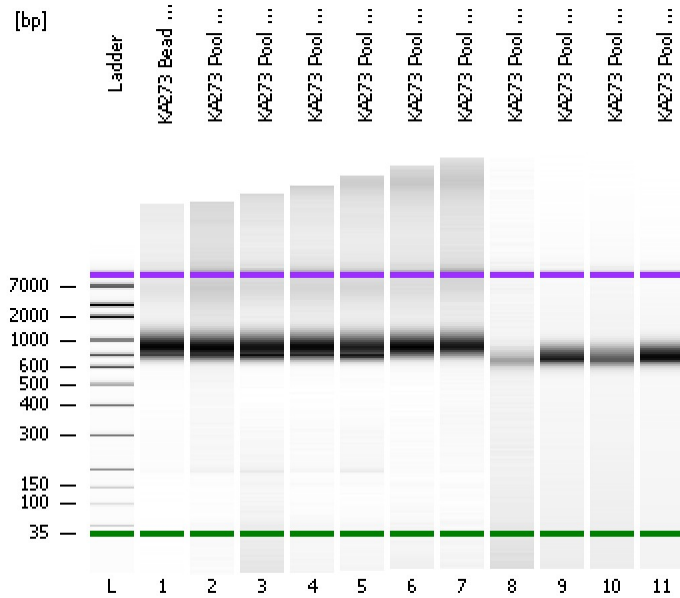


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
Modified: 5/3/2018 3:49:23 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

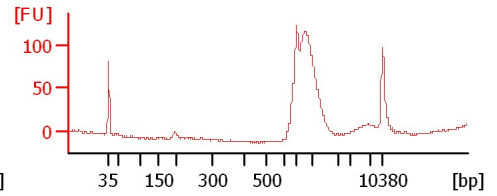
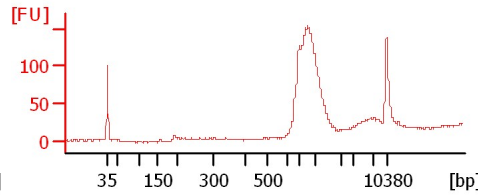
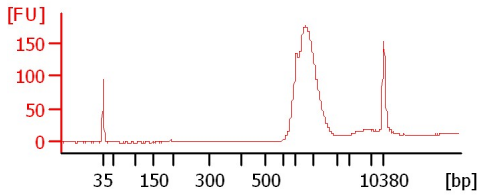
Chip Information:

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

KA273 Bead Clean Pool

KA273 Pool 1-47

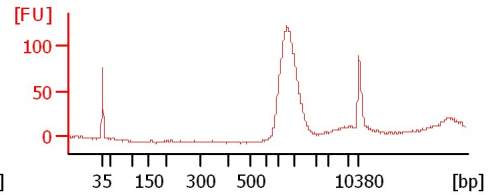
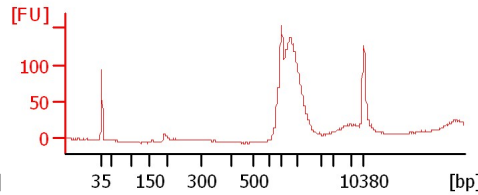
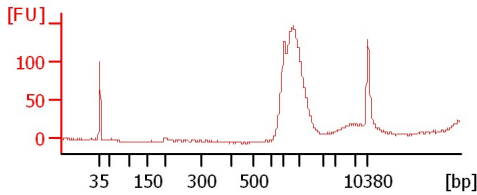
KA273 Pool 48-94



KA273 Pool 95-141

KA273 Pool 142-188

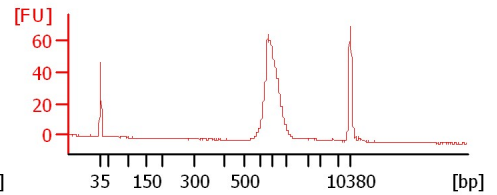
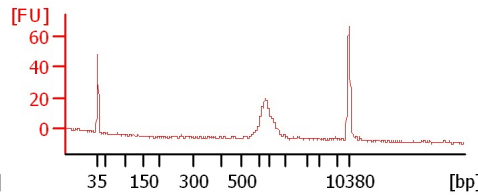
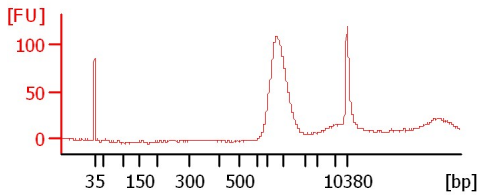
KA273 Pool 189-235



KA273 Pool 236-273

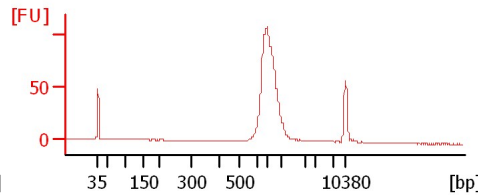
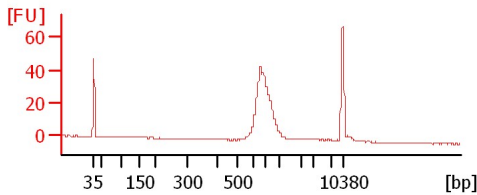
KA273 Pool Pippin 1

KA273 Pool Pippin 2



KA273 Pool Pippin 3

KA273 Pool Pippin 4



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
 Modified: 5/3/2018 3:49:23 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
KA273 Bead Clean Pool		<input type="checkbox"/>	✓			
KA273 Pool 1-47		<input type="checkbox"/>	✓			
KA273 Pool 48-94		<input type="checkbox"/>	✓			
KA273 Pool 95-141		<input type="checkbox"/>	✓			
KA273 Pool 142-188		<input type="checkbox"/>	✓			
KA273 Pool 189-235		<input type="checkbox"/>	✓			
KA273 Pool 236-273		<input type="checkbox"/>	✓			
KA273 Pool Pippin 1		<input type="checkbox"/>	✓			
KA273 Pool Pippin 2		<input type="checkbox"/>	✓			
KA273 Pool Pippin 3		<input type="checkbox"/>	✓			
KA273 Pool Pippin 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\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
Modified: 5/3/2018 3:49:23 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

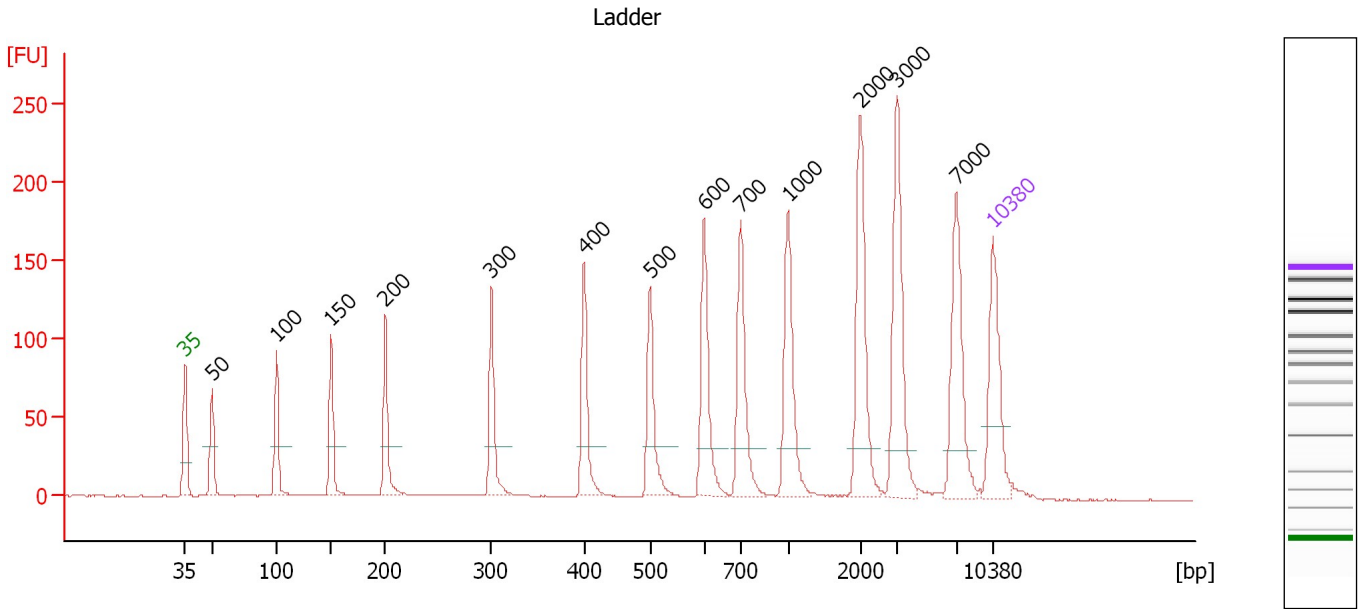
Ladder

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\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

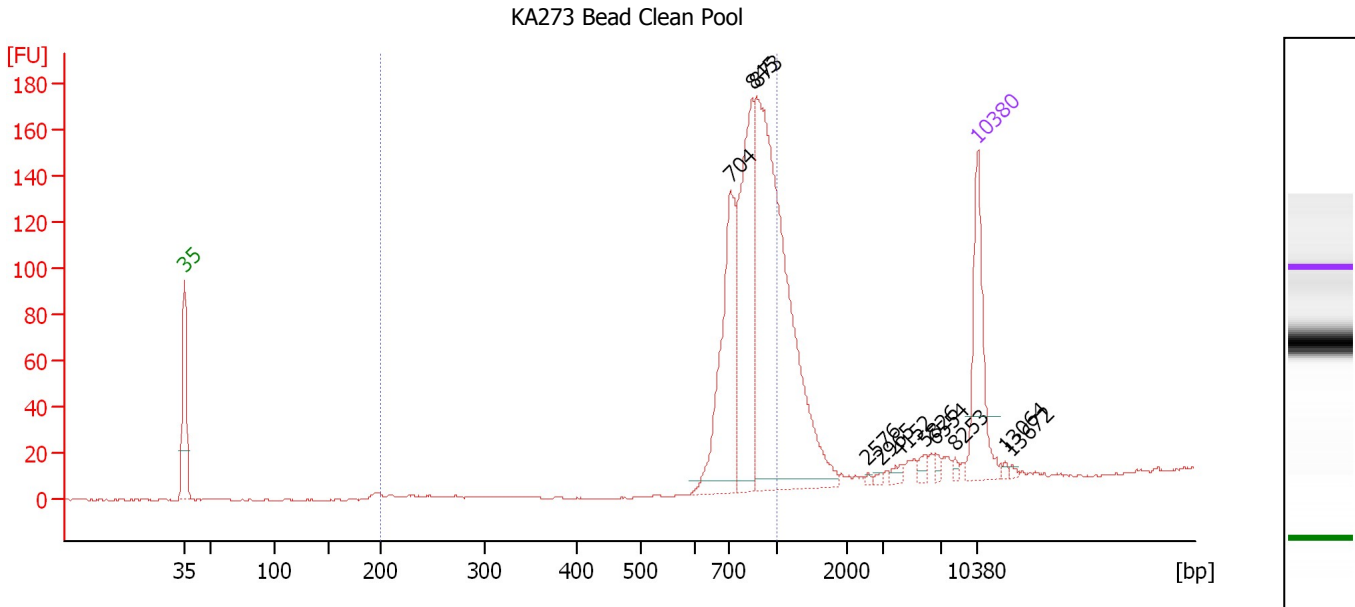
Peak table for Ladder

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	50.95
4	150	150.00	1,515.2	Ladder Peak	55.66
5	200	150.00	1,136.4	Ladder Peak	60.37
6	300	150.00	757.6	Ladder Peak	69.57
7	400	150.00	568.2	Ladder Peak	77.61
8	500	150.00	454.5	Ladder Peak	83.29
9	600	150.00	378.8	Ladder Peak	88.00
10	700	150.00	324.7	Ladder Peak	91.15
11	1,000	150.00	227.3	Ladder Peak	95.26
12	2,000	150.00	113.6	Ladder Peak	101.54
13	3,000	150.00	75.8	Ladder Peak	104.68
14	7,000	150.00	32.5	Ladder Peak	109.86
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
 Modified: 5/3/2018 3:49:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : KA273 Bead Clean Pool

Number of peaks found: 11 Corr. Area 1: 767.6
 Noise: 0.3

Peak table for sample 1 : KA273 Bead Clean Pool

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	704	175.10	376.7		91.20
3	845	189.23	339.3		93.13
4	873	428.25	743.6		93.51
5	2,576	1.75	1.0		103.35
6	2,965	2.44	1.2		104.57
7	4,152	5.17	1.9		106.17
8	5,826	5.72	1.5		108.34
9	6,554	4.02	0.9		109.28
10	8,253	3.20	0.6		111.02
11	10,380	75.00	10.9	Upper Marker	113.00
12	13,064	0.00	0.0		115.49
13	13,672	0.00	0.0		116.06

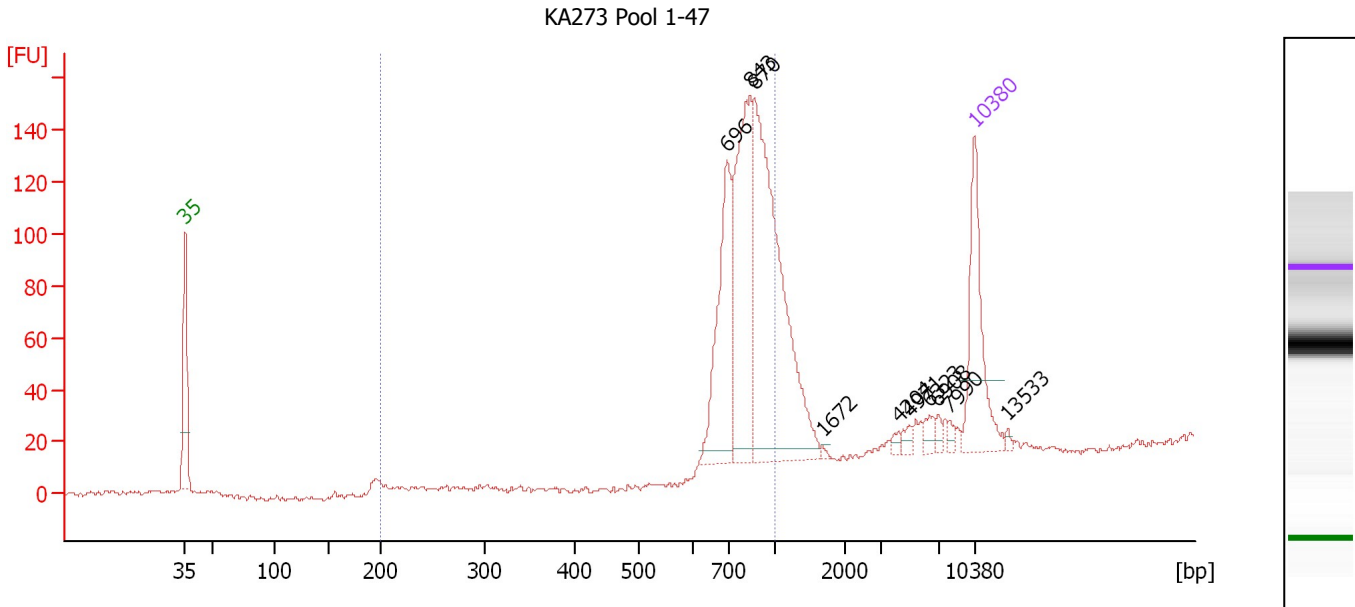
Region table for sample 1 : KA273 Bead Clean Pool

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	827	555.32	767.6	1,028.6	71	12.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
 Modified: 5/3/2018 3:49:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : KA273 Pool 1-47

Number of peaks found: 10 Corr. Area 1: 684.1
 Noise: 1.0

Peak table for sample 2 : KA273 Pool 1-47

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	696	135.71	295.4		91.02
3	843	172.48	310.1		93.10
4	870	297.50	517.9		93.48
5	1,672	1.63	1.5		99.48
6	4,204	3.96	1.4		106.24
7	4,971	5.88	1.8		107.23
8	6,323	8.23	2.0		108.98
9	6,908	5.03	1.1		109.74
10	7,990	3.71	0.7		110.78
11	10,380	75.00	10.9	Upper Marker	113.00
12	13,533	0.00	0.0		115.93

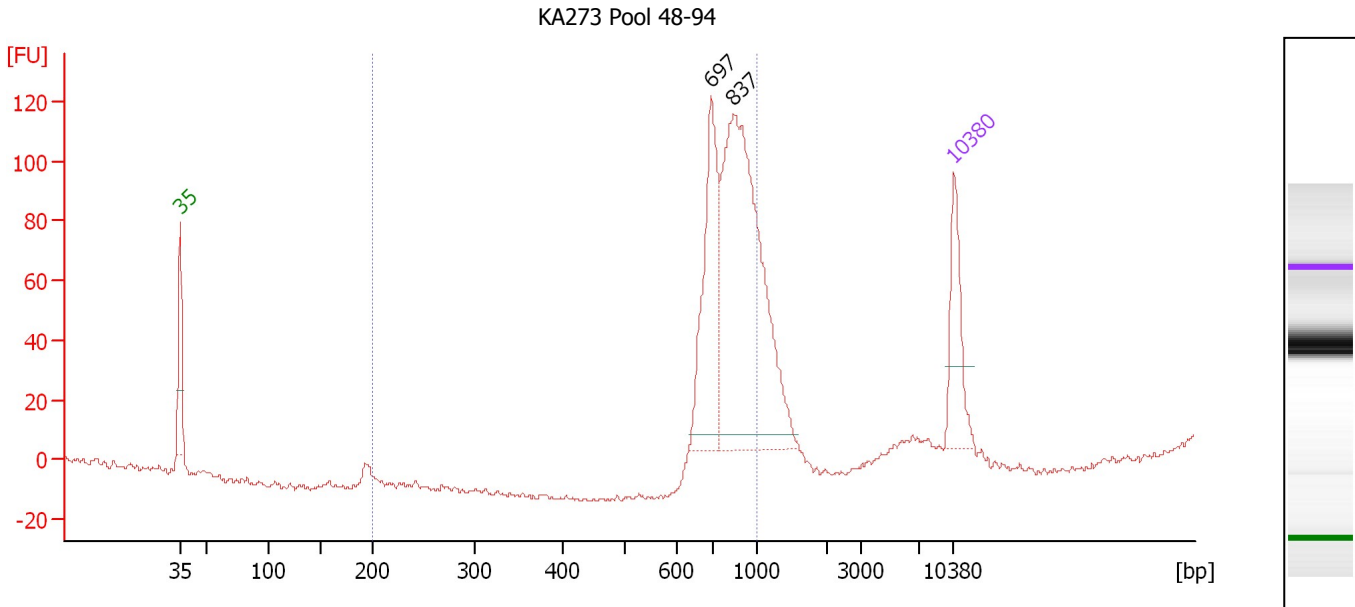
Region table for sample 2 : KA273 Pool 1-47

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	815	485.61	684.1	913.0	74	12.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
 Modified: 5/3/2018 3:49:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : KA273 Pool 48-94

Number of peaks found: 2 Corr. Area 1: 560.5
 Noise: 1.0

Peak table for sample 3 : KA273 Pool 48-94

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	697	220.48	479.3		91.05
3	837	525.93	951.7		93.03
4	10,380	75.00	10.9	Upper Marker	113.00

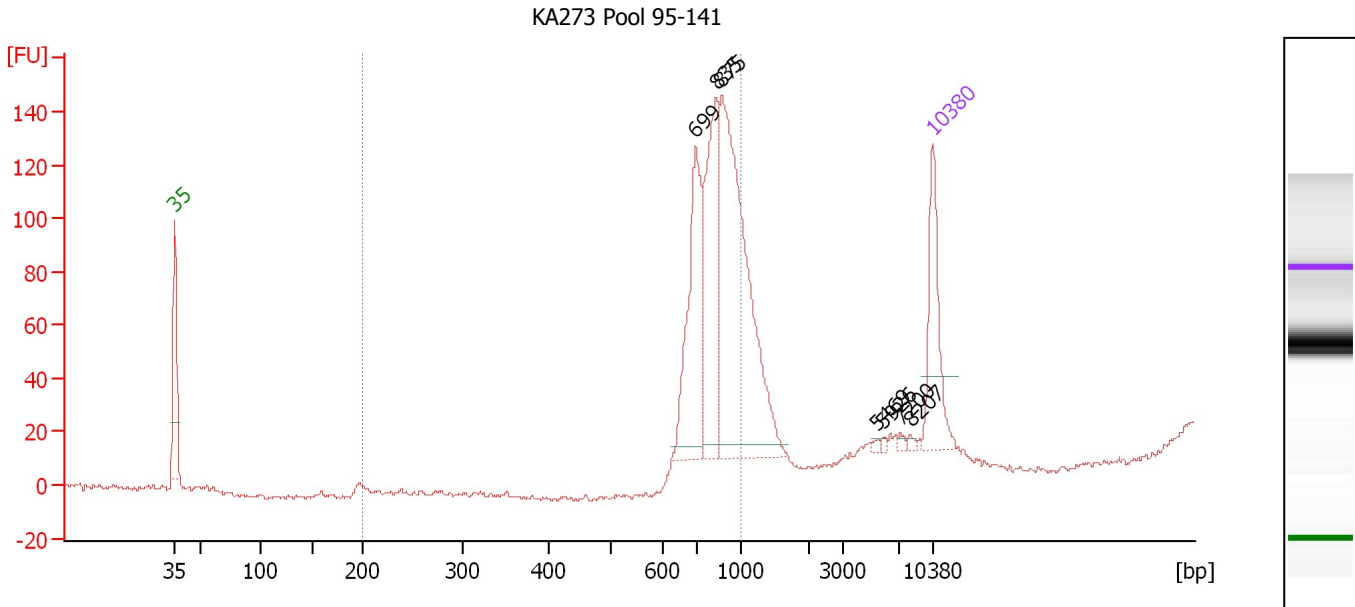
Region table for sample 3 : KA273 Pool 48-94

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	811	589.93	560.5	1,115.3	81	12.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
 Modified: 5/3/2018 3:49:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : KA273 Pool 95-141

Number of peaks found: 7 Corr. Area 1: 622.5
 Noise: 0.9

Peak table for sample 4 : KA273 Pool 95-141

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	699	172.40	373.4		91.13
3	835	171.81	311.6		93.00
4	875	356.57	617.6		93.54
5	5,469	2.43	0.7		107.88
6	5,926	2.22	0.6		108.47
7	7,200	3.11	0.7		110.04
8	8,207	3.02	0.6		110.98
9	10,380	75.00	10.9	Upper Marker	113.00

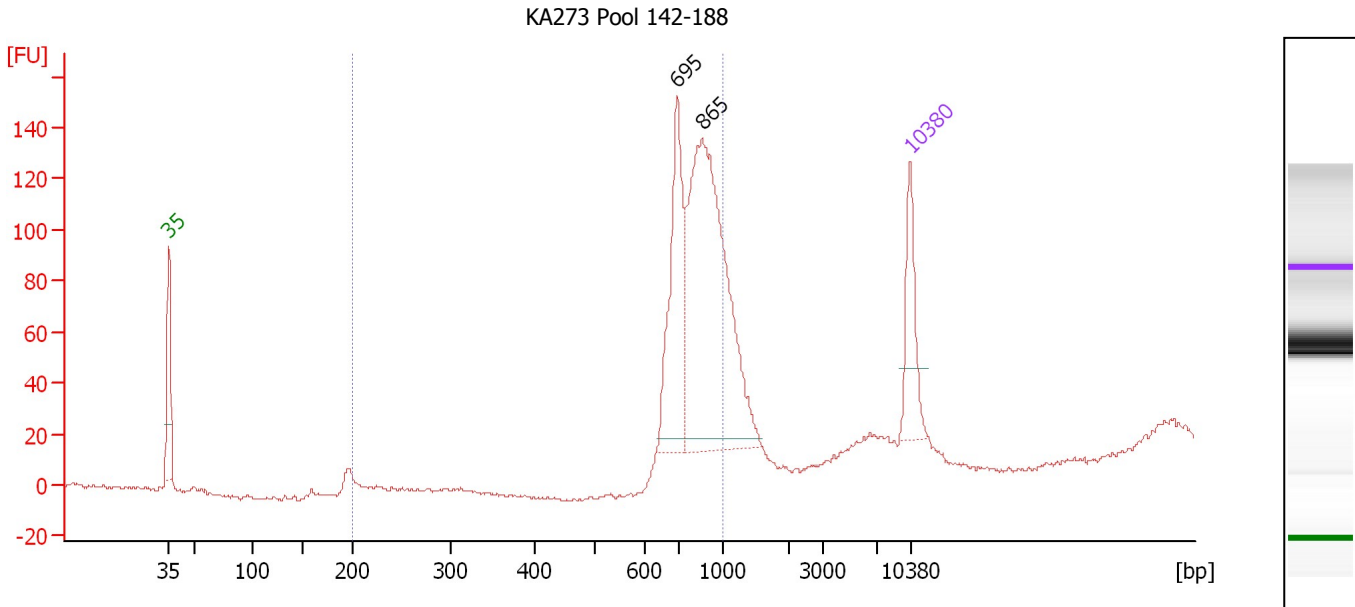
Region table for sample 4 : KA273 Pool 95-141

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	821	533.98	622.5	995.0	79	12.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
 Modified: 5/3/2018 3:49:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : KA273 Pool 142-188

Number of peaks found: 2 Corr. Area 1: 632.3
 Noise: 0.8

Peak table for sample 5 : KA273 Pool 142-188

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	695	219.98	479.5		90.99
3	865	534.54	936.1		93.41
4	10,380	75.00	10.9	Upper Marker	113.00

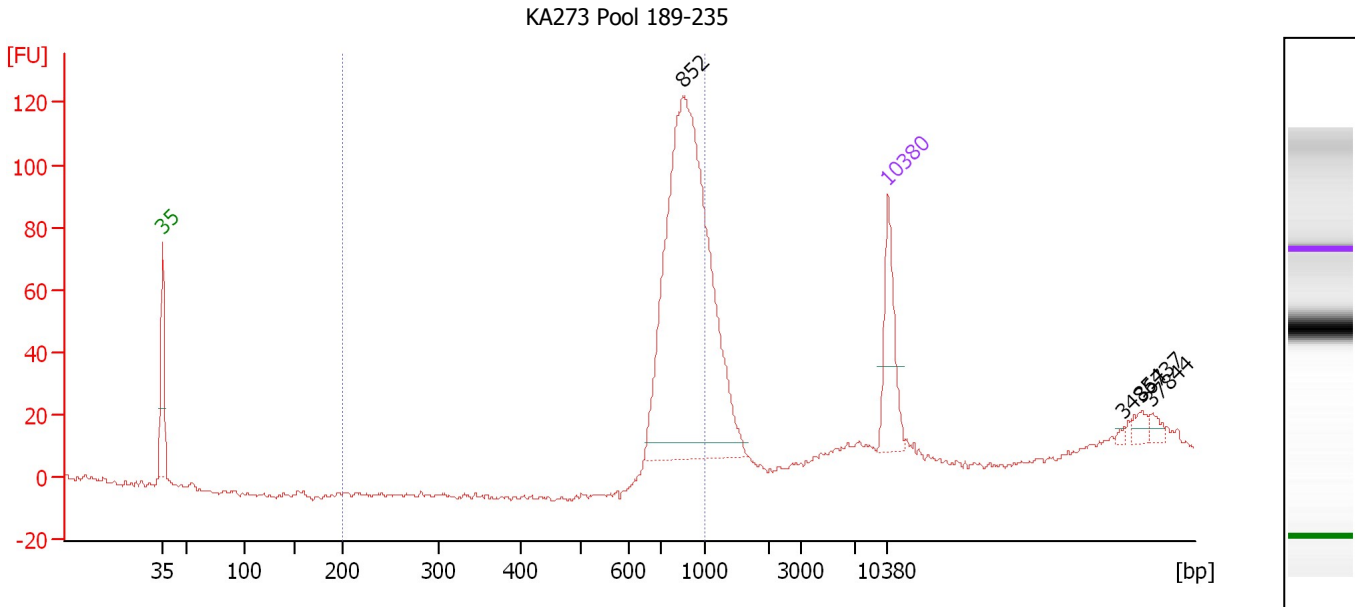
Region table for sample 5 : KA273 Pool 142-188

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	809	620.73	632.3	1,177.1	80	12.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
 Modified: 5/3/2018 3:49:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : KA273 Pool 189-235

Number of peaks found: 4 Corr. Area 1: 473.5
 Noise: 0.7

Peak table for sample 6 : KA273 Pool 189-235

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	852	726.27	1,290.8		93.24
3	10,380	75.00	10.9	Upper Marker	113.00
4	34,854	0.00	0.0		135.75
5	36,737	0.00	0.0		137.50
6	37,844	0.00	0.0		138.53

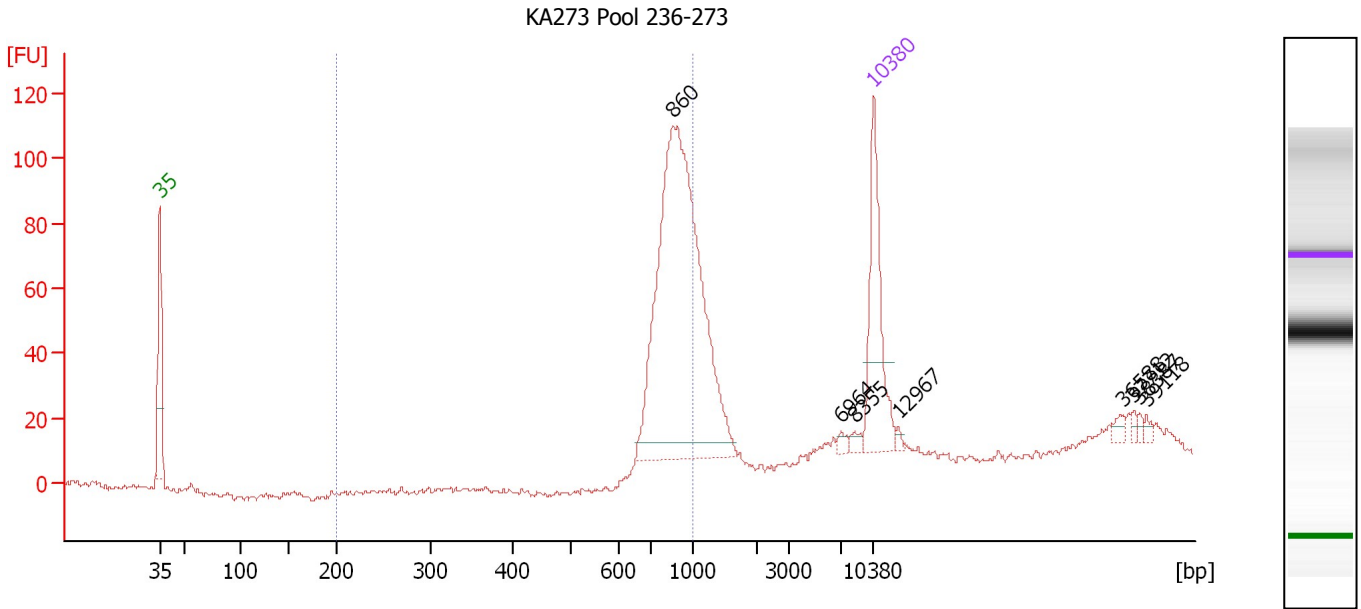
Region table for sample 6 : KA273 Pool 189-235

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	839	553.93	473.5	1,007.0	70	10.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
 Modified: 5/3/2018 3:49:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : KA273 Pool 236-273

Number of peaks found: 8 Corr. Area 1: 401.1
 Noise: 0.9

Peak table for sample 7 : KA273 Pool 236-273

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	860	426.25	750.6		93.34
3	6,964	3.92	0.9		109.81
4	8,355	4.70	0.9		111.12
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,967	0.00	0.0		115.40
7	36,588	0.00	0.0		137.36
8	37,712	0.00	0.0		138.41
9	38,387	0.00	0.0		139.03
10	39,118	0.00	0.0		139.71

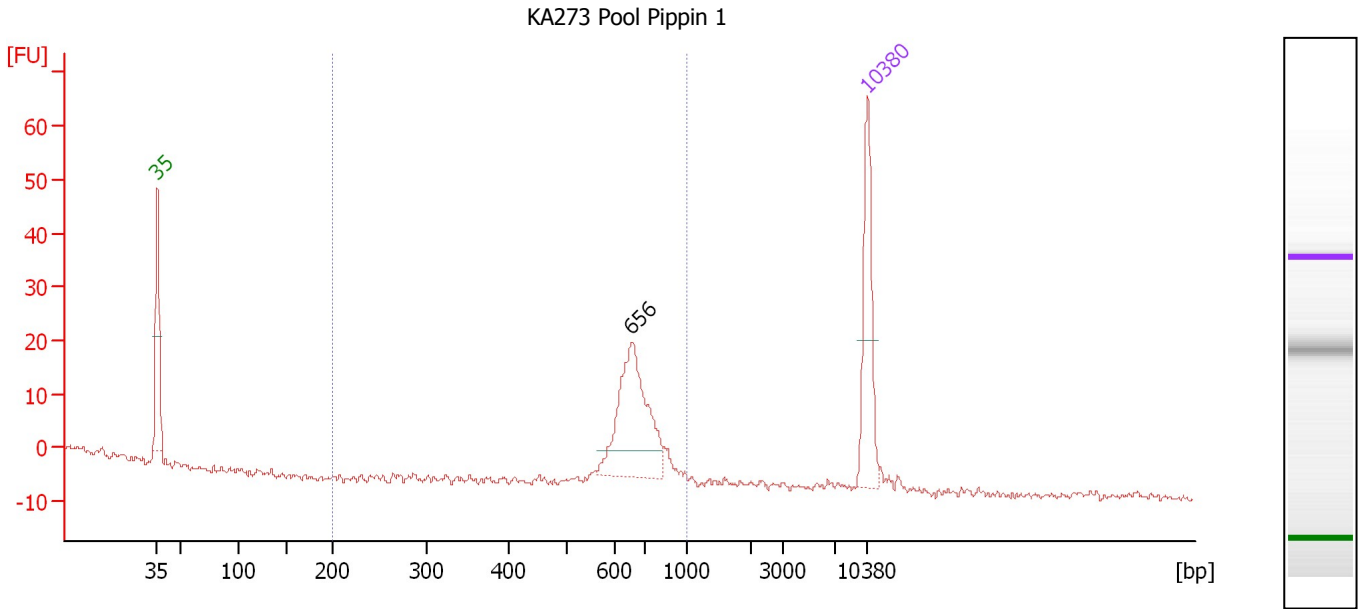
Region table for sample 7 : KA273 Pool 236-273

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	849	315.93	401.1	567.0	62	10.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
 Modified: 5/3/2018 3:49:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : KA273 Pool Pippin 1

Number of peaks found: 1 Corr. Area 1: 91.8
 Noise: 0.6

Peak table for sample 8 : KA273 Pool Pippin 1

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	656	146.44	338.1		89.77
3	10,380	75.00	10.9	Upper Marker	113.00

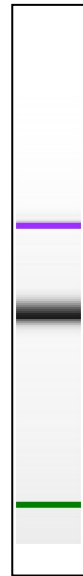
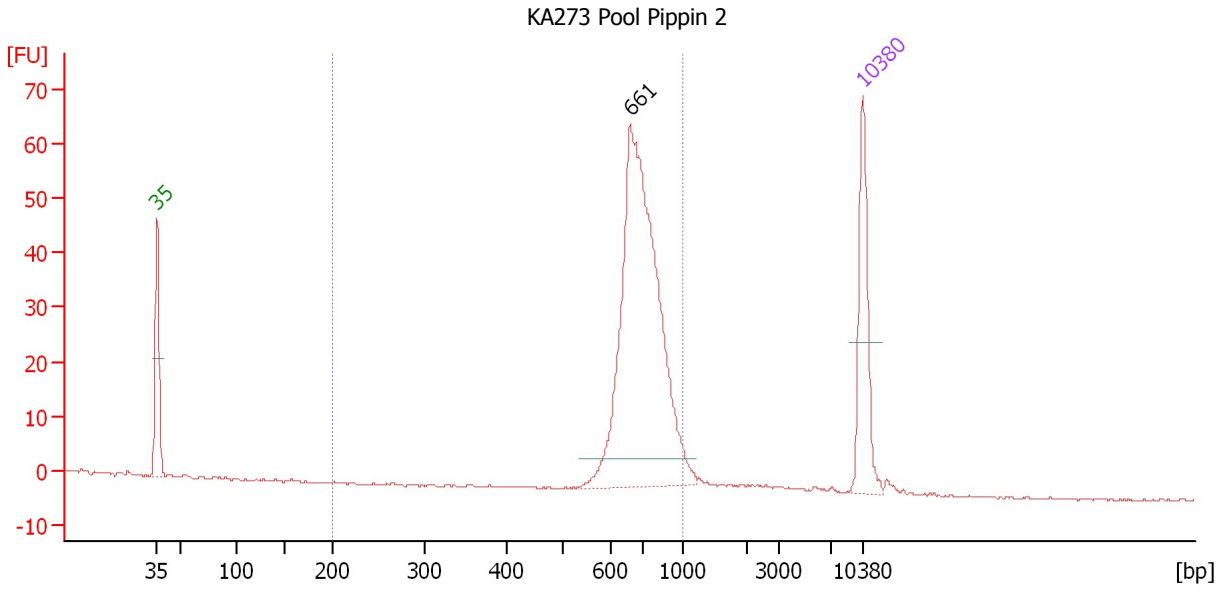
Region table for sample 8 : KA273 Pool Pippin 1

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	680	145.16	91.8	326.1	96	10.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : KA273 Pool Pippin 2

Number of peaks found: 1 Corr. Area 1: 299.1
 Noise: 0.2

Peak table for sample 9 : KA273 Pool Pippin 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	661	456.00	1,044.7		89.93
3	10,380	75.00	10.9	Upper Marker	113.00

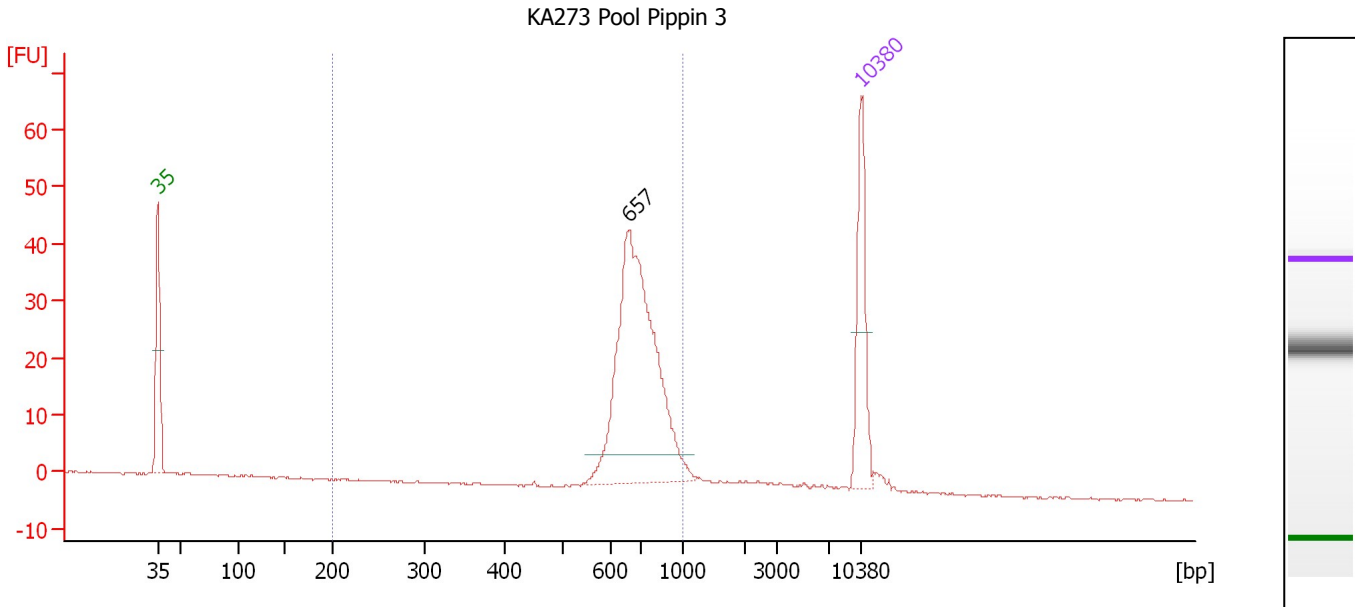
Region table for sample 9 : KA273 Pool Pippin 2

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	723	434.93	299.1	924.1	95	12.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : KA273 Pool Pippin 3

Number of peaks found: 1 Corr. Area 1: 214.1
 Noise: 0.1

Peak table for sample 10 : KA273 Pool Pippin 3

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	657	357.14	823.1		89.81
3	10,380	75.00	10.9	Upper Marker	113.00

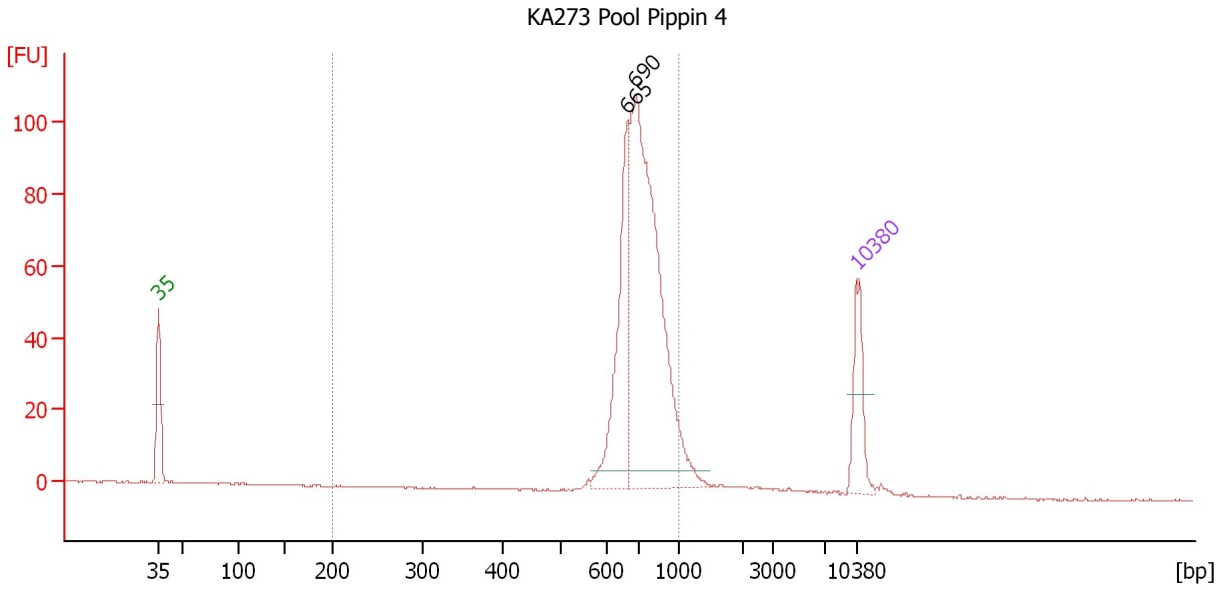
Region table for sample 10 : KA273 Pool Pippin 3

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	714	354.00	214.1	762.7	90	13.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
 Modified: 5/3/2018 3:49:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : KA273 Pool Pippin 4

Number of peaks found: 2 Corr. Area 1: 529.3
 Noise: 0.2

Peak table for sample 11 : KA273 Pool Pippin 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	665	239.99	546.9		90.04
3	690	710.27	1,558.7		90.84
4	10,380	75.00	10.9	Upper Marker	113.00

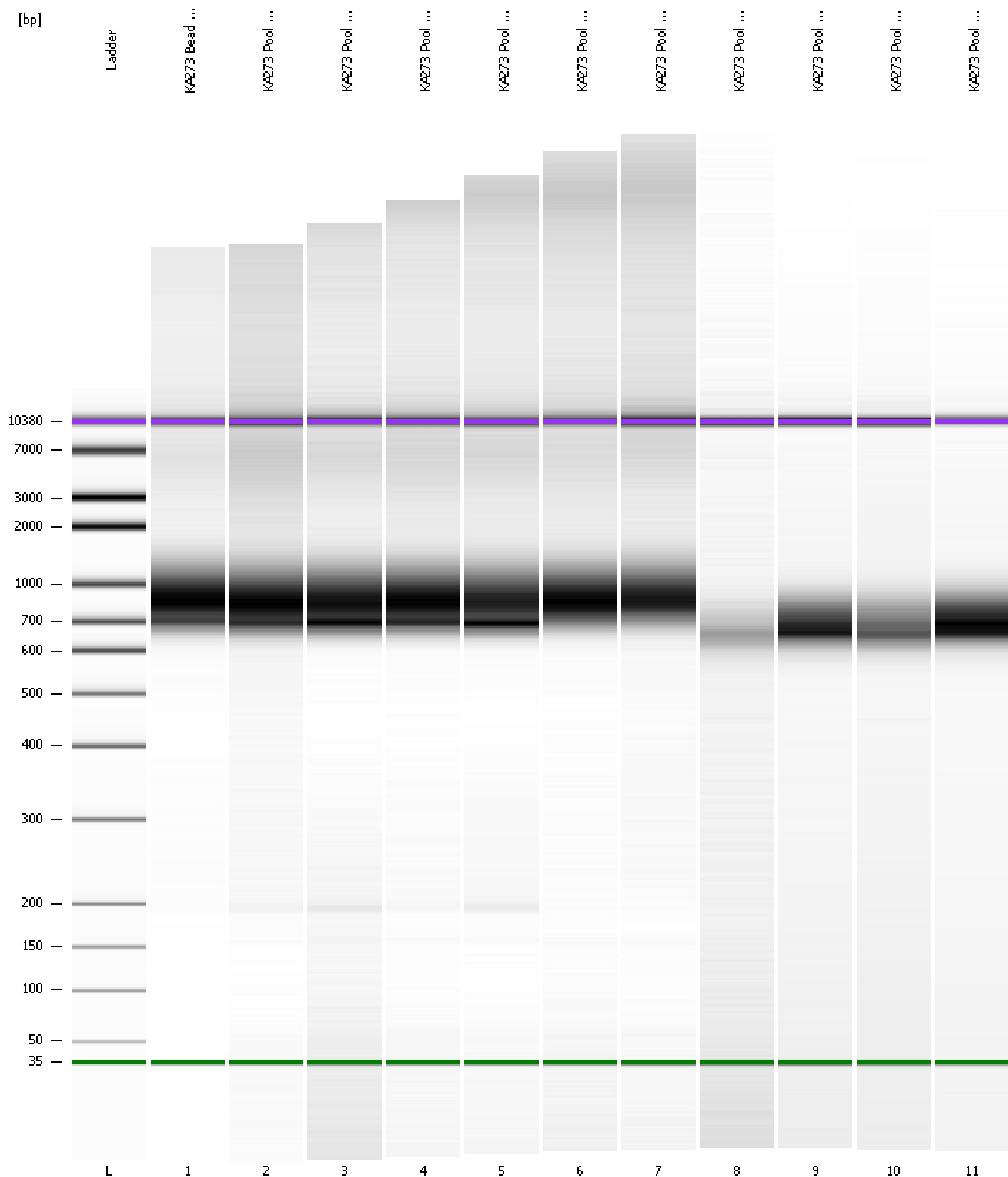
Region table for sample 11 : KA273 Pool Pippin 4

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	738	898.01	529.3	1,872.1	92	13.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
Modified: 5/3/2018 3:49:23 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-03\2018-05-03_001.xad

Created: 5/3/2018 2:55:51 PM
Modified: 5/3/2018 3:49:23 PM

Curves

Standard Curve

