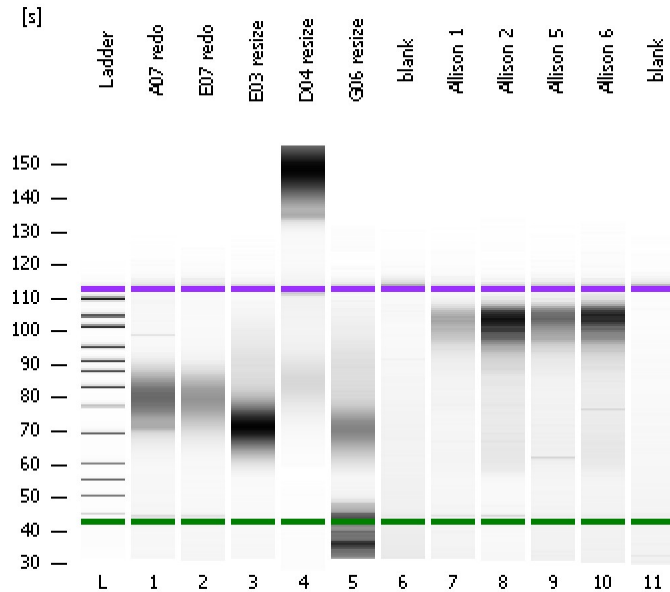


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
Modified: 12/20/2017 1:53:22 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

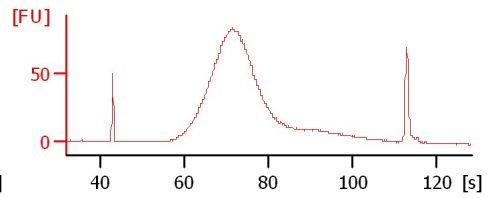
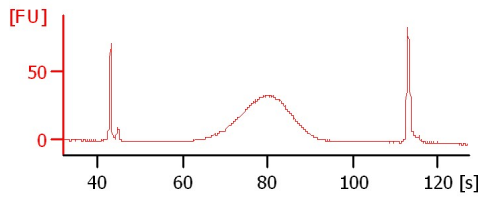
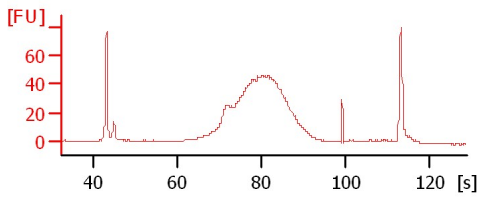
Chip Information:

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

A07 redo

E07 redo

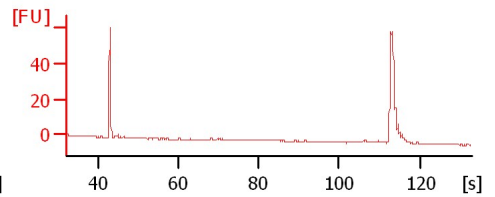
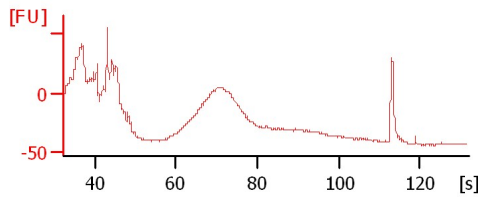
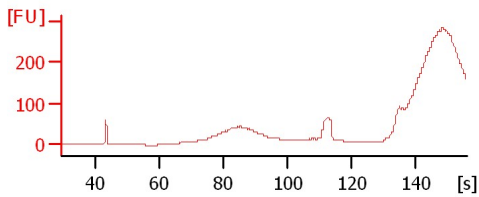
E03 resize



D04 resize

G06 resize

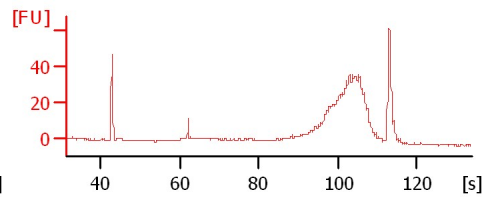
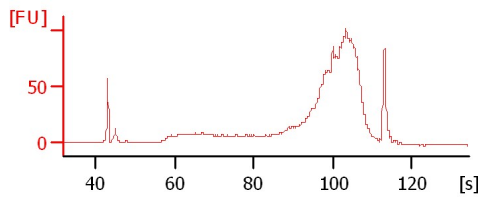
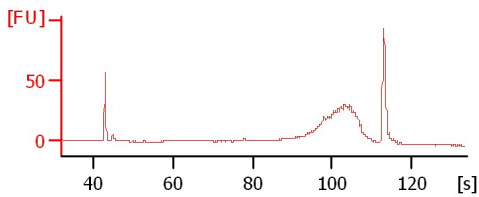
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Allison 1

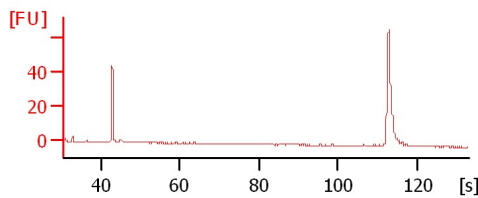
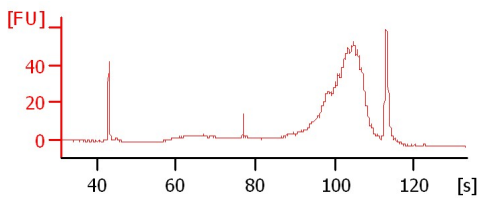
Allison 2

Allison 5



Allison 6

blank



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
 Modified: 12/20/2017 1:53:22 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A07 redo		<input type="checkbox"/>	✓			
E07 redo		<input type="checkbox"/>	✓			
E03 resize		<input type="checkbox"/>	✓			
D04 resize		<input type="checkbox"/>	✓			
G06 resize		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
Allison 1		<input type="checkbox"/>	✓			
Allison 2		<input type="checkbox"/>	✓			
Allison 5		<input type="checkbox"/>	✓			
Allison 6		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

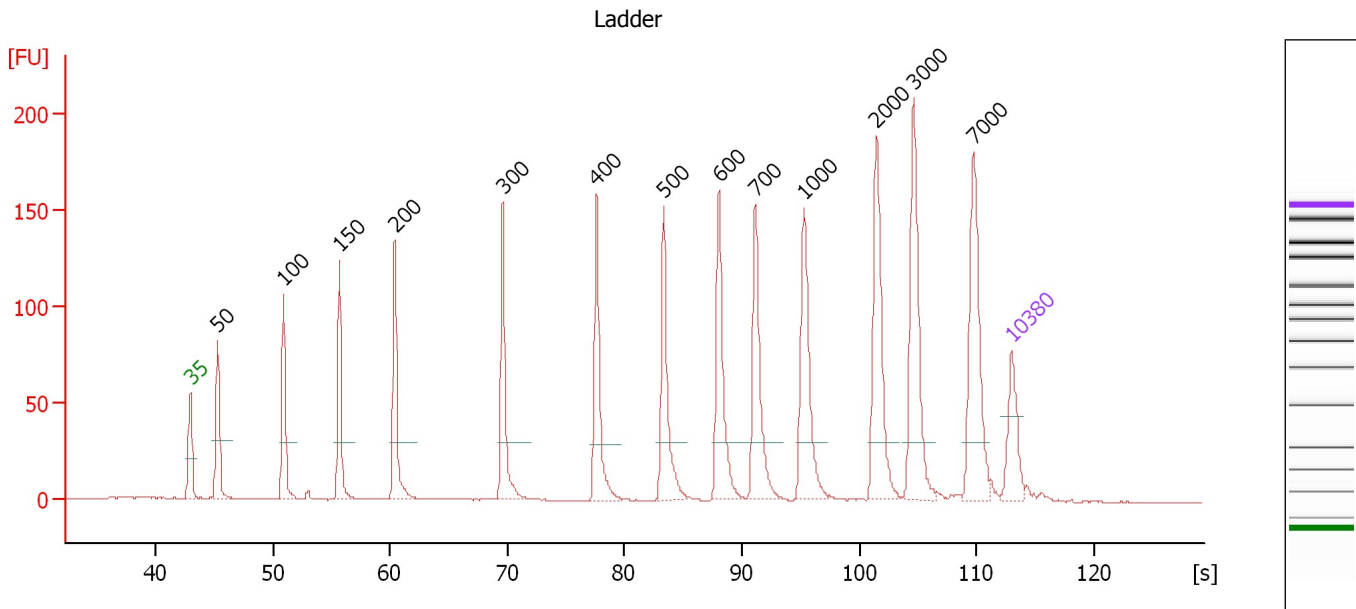
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
 Modified: 12/20/2017 1:53:22 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

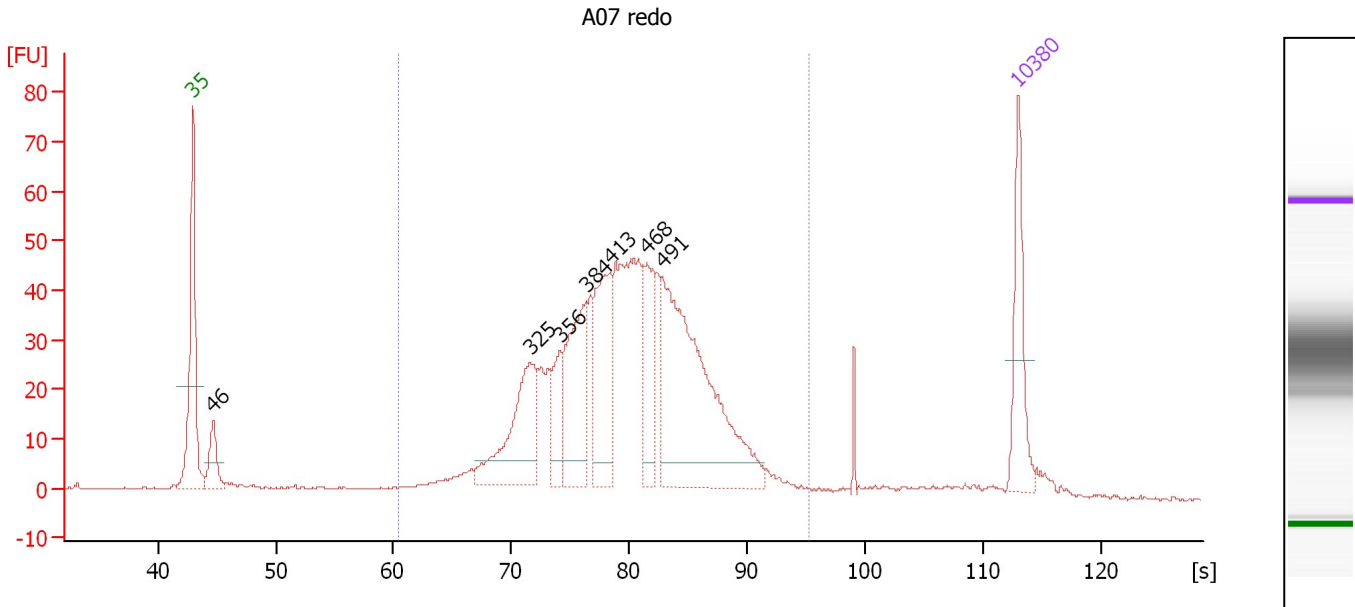
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.92
4	150	150.00	1,515.2	Ladder Peak	55.68
5	200	150.00	1,136.4	Ladder Peak	60.44
6	300	150.00	757.6	Ladder Peak	69.64
7	400	150.00	568.2	Ladder Peak	77.61
8	500	150.00	454.5	Ladder Peak	83.33
9	600	150.00	378.8	Ladder Peak	88.05
10	700	150.00	324.7	Ladder Peak	91.16
11	1,000	150.00	227.3	Ladder Peak	95.33
12	2,000	150.00	113.6	Ladder Peak	101.51
13	3,000	150.00	75.8	Ladder Peak	104.67
14	7,000	150.00	32.5	Ladder Peak	109.75
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
 Modified: 12/20/2017 1:53:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : A07 redo

Number of peaks found: 7 Corr. Area 1: 914.0
 Noise: 0.2

Peak table for sample 1 : A07 redo

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	59.74	1,974.9		44.69
3	325	174.46	813.9		71.62
4	356	58.58	249.1		74.13
5	384	156.54	618.1		76.31
6	413	156.89	575.3		78.36
7	468	95.18	308.1		81.51
8	491	403.16	1,243.6		82.83
9	10,380	75.00	10.9	Upper Marker	113.00

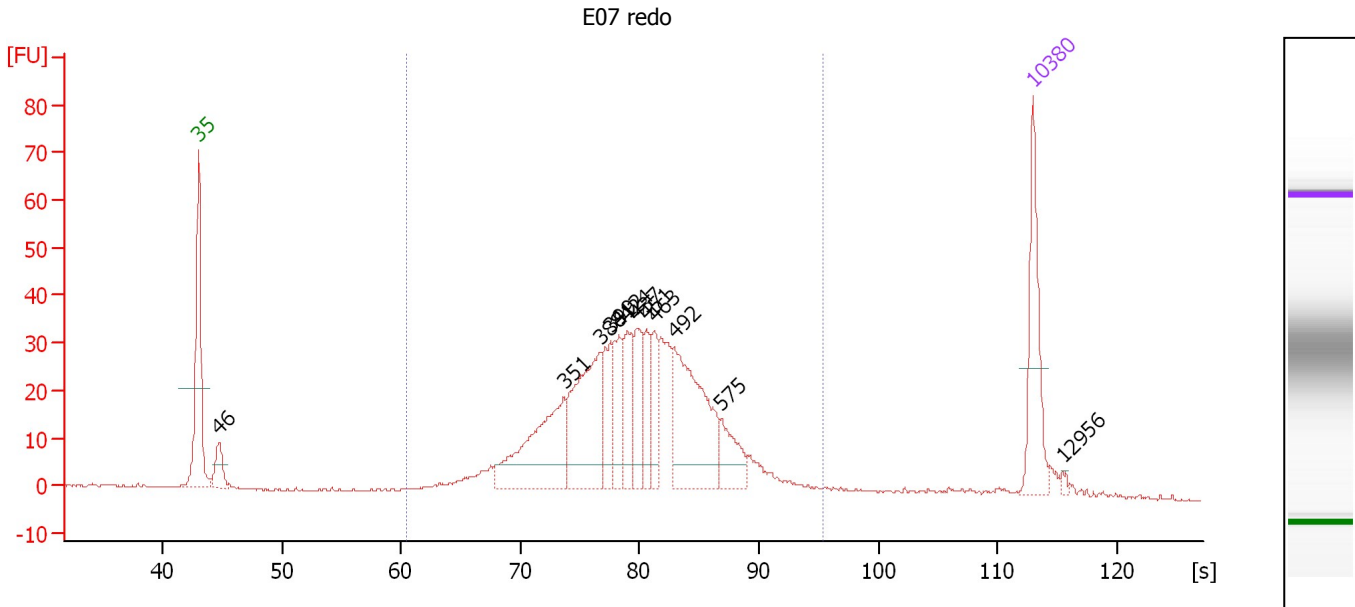
Region table for sample 1 : A07 redo

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
60.44	95.33	445	914.0	1,567.72	5,739.0	92	23.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
 Modified: 12/20/2017 1:53:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : E07 redo

Number of peaks found: 12 Corr. Area 1: 648.9
 Noise: 0.1

Peak table for sample 2 : E07 redo

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	39.17	1,290.1		44.71
3	351	165.58	715.6		73.68
4	388	159.39	622.6		76.65
5	399	52.97	201.0		77.55
6	412	55.28	203.5		78.27
7	424	59.98	214.3		78.99
8	437	57.26	198.3		79.76
9	451	40.55	136.3		80.52
10	463	42.79	140.1		81.20
11	492	182.14	561.1		82.86
12	575	44.90	118.3		86.87
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,956	0.00	0.0		115.48

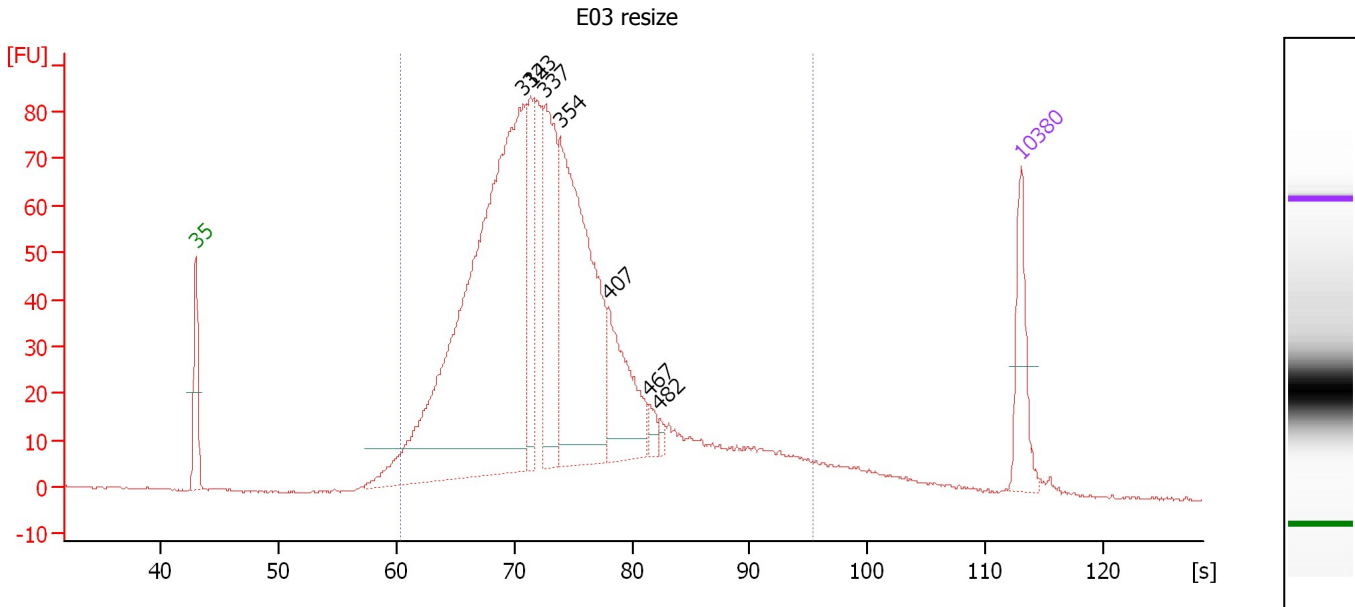
Region table for sample 2 : E07 redo

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.44	95.33	446	648.9	1,076.97	3,945.6	92	23.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : E03 resize

Number of peaks found: 7 Corr. Area 1: 1,667.3
 Noise: 0.1

Peak table for sample 3 : E03 resize

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	314	1,265.38	6,107.4		70.75
3	323	140.75	661.3		71.44
4	337	246.98	1,109.2		72.62
5	354	562.20	2,406.5		73.94
6	407	164.30	611.9		78.00
7	467	18.95	61.4		81.46
8	482	9.37	29.4		82.33
9	10,380	75.00	10.9	Upper Marker	113.00

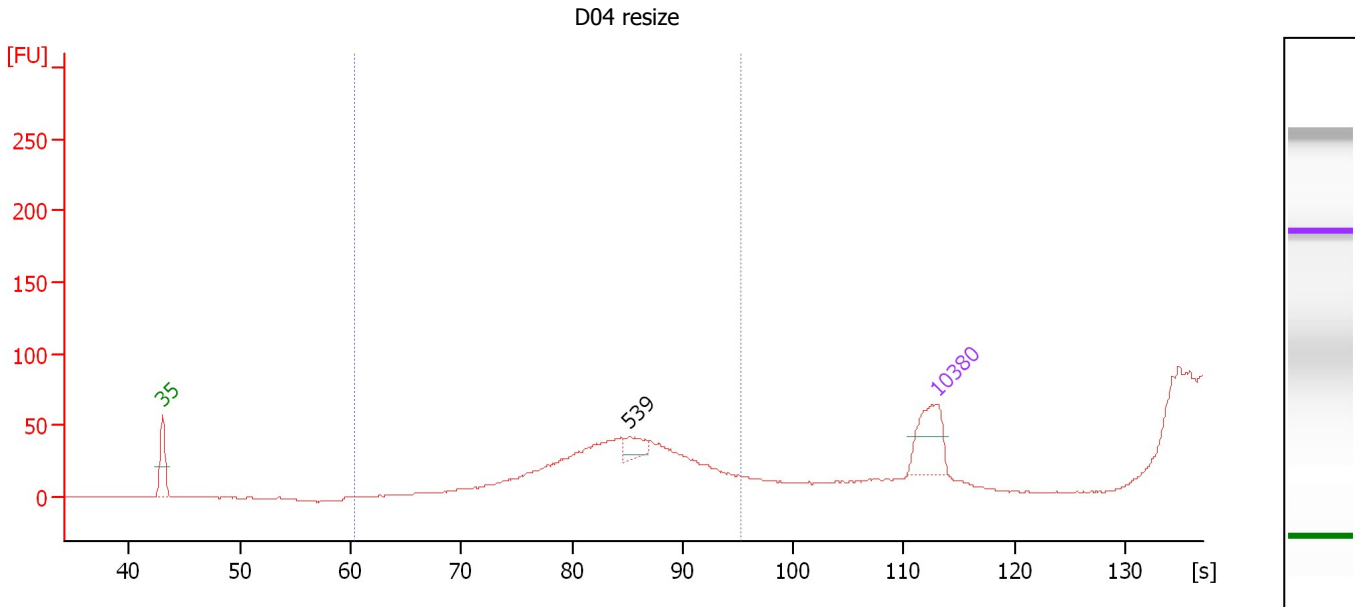
Region table for sample 3 : E03 resize

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
60.44	95.33	365	1,667.3	3,163.63	14,621.6	94	33.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
 Modified: 12/20/2017 1:53:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : D04 resize

Number of peaks found: 2 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 4 : D04 resize

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	539	34.09	95.8		85.17
3	10,380	75.00	10.9	Upper Marker	113.00
4	47,118	0.00	0.0		148.33

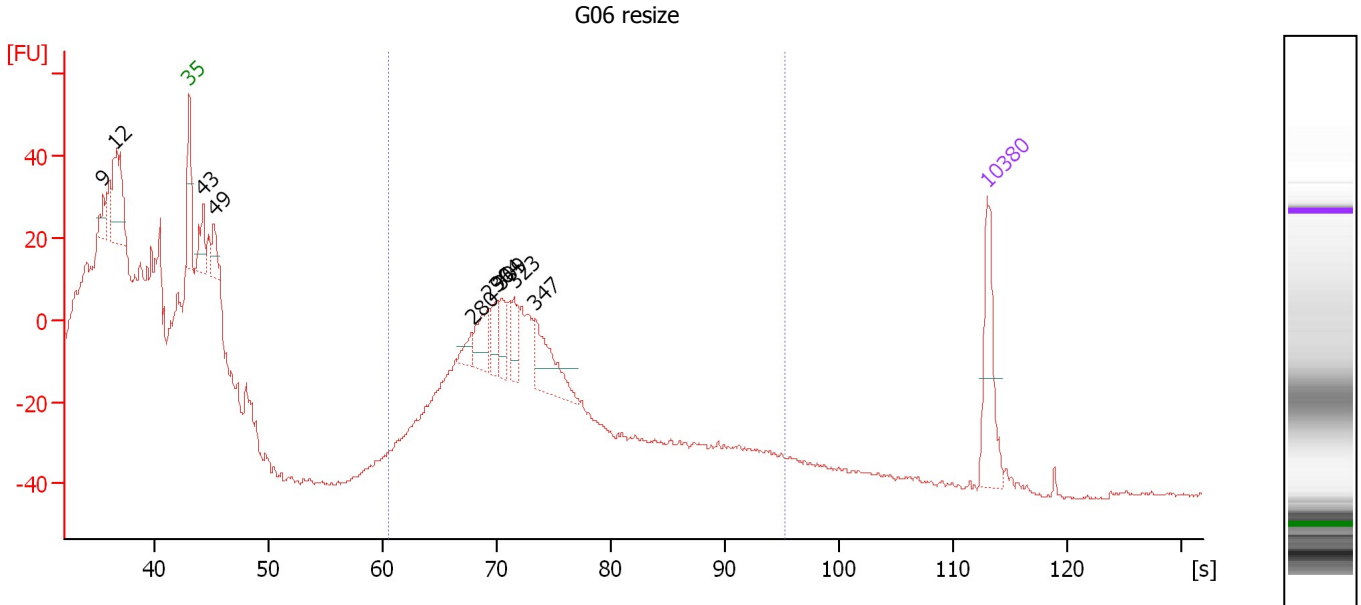
Region table for sample 4 : D04 resize

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.44	95.33	0	0.0	0.00	0.0	0	0.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
 Modified: 12/20/2017 1:53:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : G06 resize

Number of peaks found: 10 Corr. Area 1: 149.6
 Noise: 0.5

Peak table for sample 5 : G06 resize

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	9	0.00	0.0		35.46
2	12	0.00	0.0		36.45
3	35	125.00	5,411.3	Lower Marker	43.00
4	43	55.46	1,960.0		44.22
5	49	40.99	1,269.4		45.17
6	280	18.83	101.8		67.83
7	296	51.78	265.0		69.29
8	304	37.10	185.1		69.94
9	309	37.48	183.7		70.37
10	323	34.58	162.1		71.50
11	347	81.97	358.0		73.38
12	10,380	75.00	10.9	Upper Marker	113.00

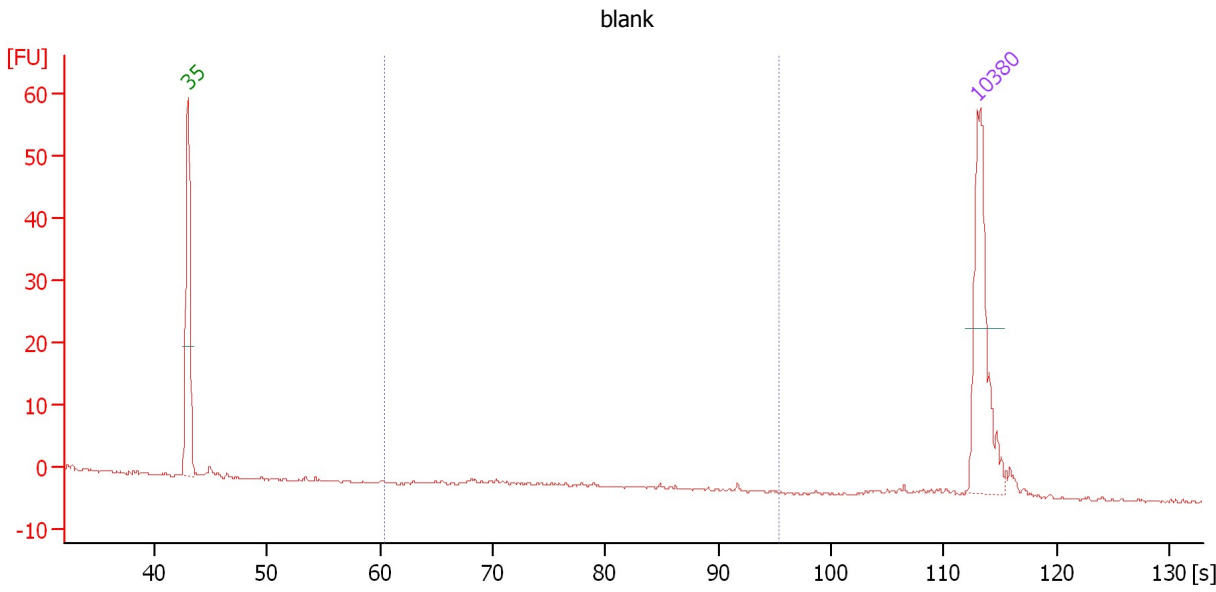
Region table for sample 5 : G06 resize

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.44	95.33	320	149.6	283.39	1,351.9	27	8.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
 Modified: 12/20/2017 1:53:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : blank

Number of peaks found: 0 Corr. Area 1: 0.6
 Noise: 0.2

Peak table for sample 6 : blank

Pea k	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	10,380	75.00	10.9	Upper Marker	113.00

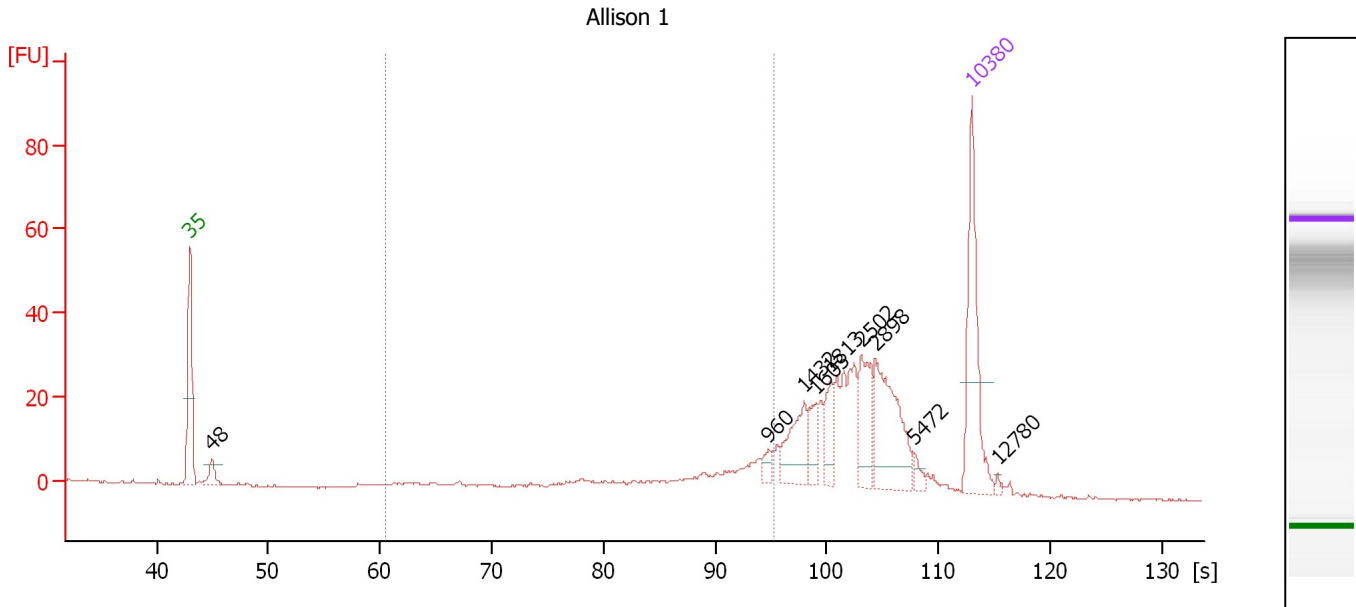
Region table for sample 6 : blank

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.44	95.33	492	0.6	0.96	3.7	7	38.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
 Modified: 12/20/2017 1:53:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Allison 1

Number of peaks found: 9 Corr. Area 1: 92.8
 Noise: 0.2

Peak table for sample 7 : Allison 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	48	18.33	582.6		44.97
3	960	7.38	11.6		94.78
4	1,432	38.44	40.7		98.00
5	1,603	18.38	17.4		99.06
6	1,813	21.42	17.9		100.36
7	2,502	38.87	23.5		103.10
8	2,898	71.81	37.5		104.35
9	5,472	6.17	1.7		107.81
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,780	0.00	0.0		115.31

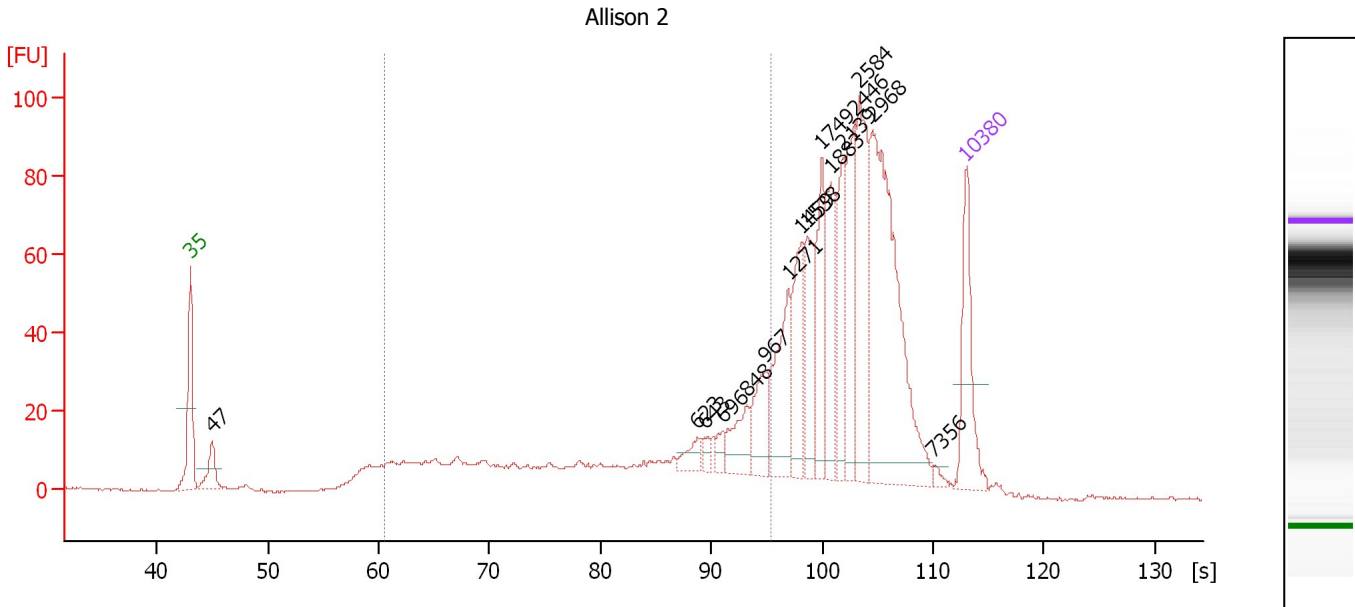
Region table for sample 7 : Allison 1

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.44	95.33	631	92.8	120.62	369.0	23	34.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
 Modified: 12/20/2017 1:53:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Allison 2

Number of peaks found: 16 Corr. Area 1: 428.3
 Noise: 0.2

Peak table for sample 8 : Allison 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	47	43.40	1,385.5		44.94
3	623	19.42	47.2		88.76
4	643	10.30	24.3		89.39
5	696	13.26	28.9		91.04
6	848	42.50	75.9		93.22
7	967	52.01	81.5		94.87
8	1,271	90.46	107.8		97.00
9	1,459	73.25	76.1		98.17
10	1,538	61.77	60.9		98.65
11	1,749	80.17	69.4		99.96
12	1,883	66.93	53.9		100.78
13	2,139	65.49	46.4		101.95
14	2,446	80.42	49.8		102.92
15	2,584	113.41	66.5		103.35
16	2,968	275.52	140.7		104.57
17	7,356	4.99	1.0		110.09
18	10,380	75.00	10.9	Upper Marker	113.00

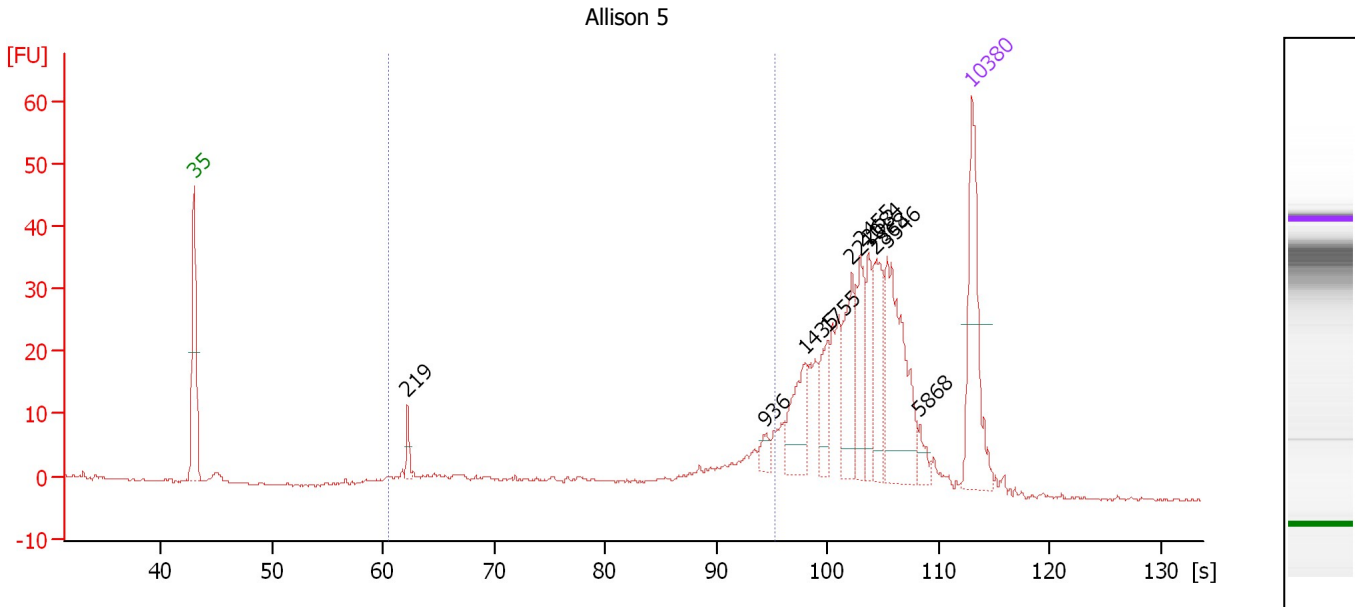
Region table for sample 8 : Allison 2

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.44	95.33	548	428.3	639.06	2,438.4	31	43.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
 Modified: 12/20/2017 1:53:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Allison 5

Number of peaks found: 10 Corr. Area 1: 93.1
 Noise: 0.2

Peak table for sample 9 : Allison 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	219	11.78	81.5		62.19
3	936	9.61	15.6		94.44
4	1,435	41.82	44.2		98.01
5	1,755	24.55	21.2		100.00
6	2,210	45.40	31.1		102.17
7	2,455	35.86	22.1		102.94
8	2,684	30.32	17.1		103.67
9	2,868	45.36	24.0		104.25
10	3,546	93.40	39.9		105.36
11	5,868	9.52	2.5		108.31
12	10,380	75.00	10.9	Upper Marker	113.00

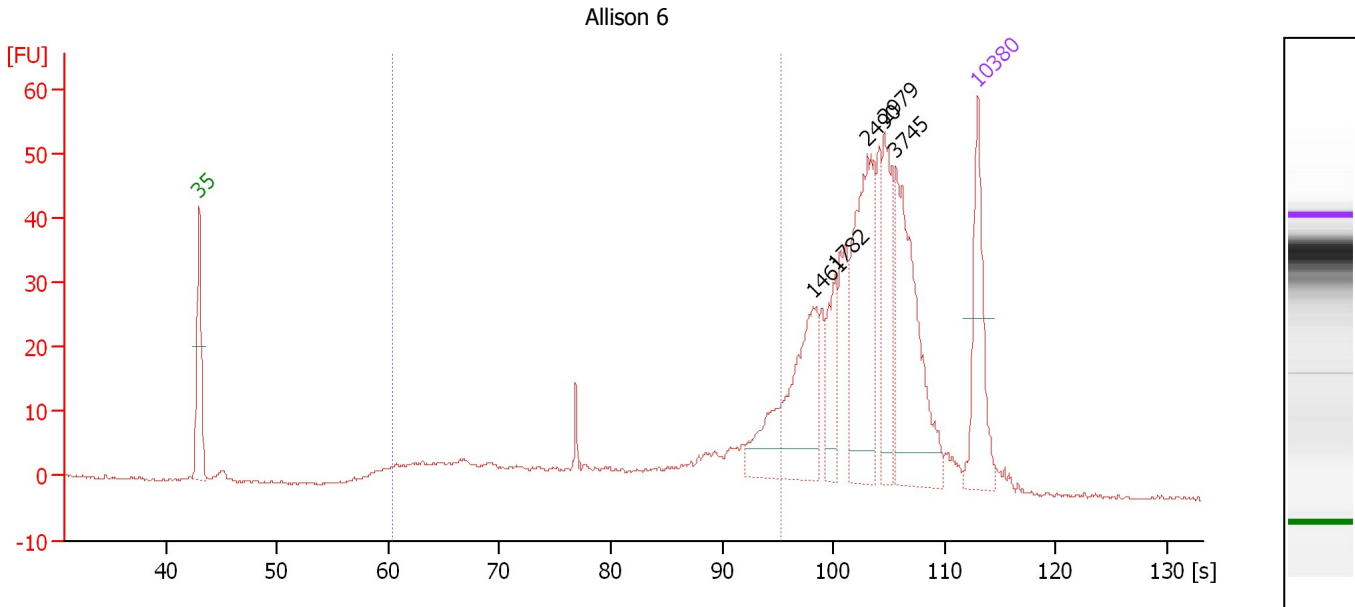
Region table for sample 9 : Allison 5

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.44	95.33	587	93.1	169.36	626.9	21	42.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
 Modified: 12/20/2017 1:53:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Allison 6

Number of peaks found: 5 Corr. Area 1: 177.4
 Noise: 0.2

Peak table for sample 10 : Allison 6

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	1,461	142.17	147.4		98.18
3	1,782	41.00	34.9		100.16
4	2,490	146.16	89.0		103.06
5	2,979	66.16	33.7		104.60
6	3,745	151.47	61.3		105.61
7	10,380	75.00	10.9	Upper Marker	113.00

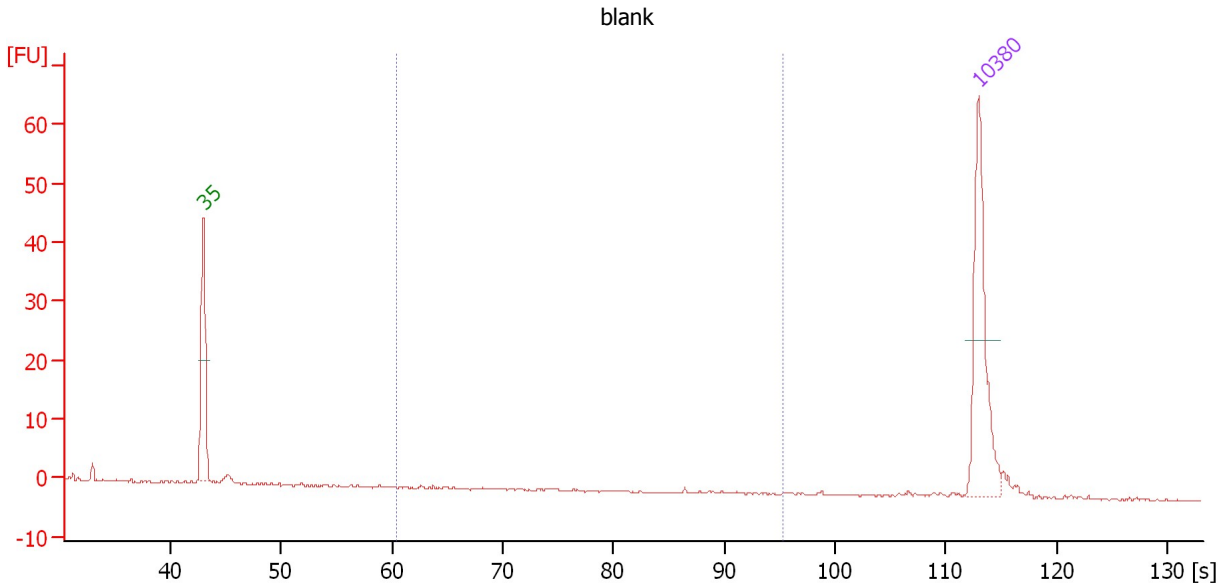
Region table for sample 10 : Allison 6

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.44	95.33	545	177.4	338.89	1,297.7	26	44.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

Created: 12/20/2017 1:08:47 PM
 Modified: 12/20/2017 1:53:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : blank

Number of peaks found: 0 Corr. Area 1: 0.1
 Noise: 0.1

Peak table for sample 11 : blank

Pea k	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	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : blank

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.44	95.33	574	0.1	0.15	0.4	1	3.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-12-20\2017-12-20_002.xad

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Gel Image

