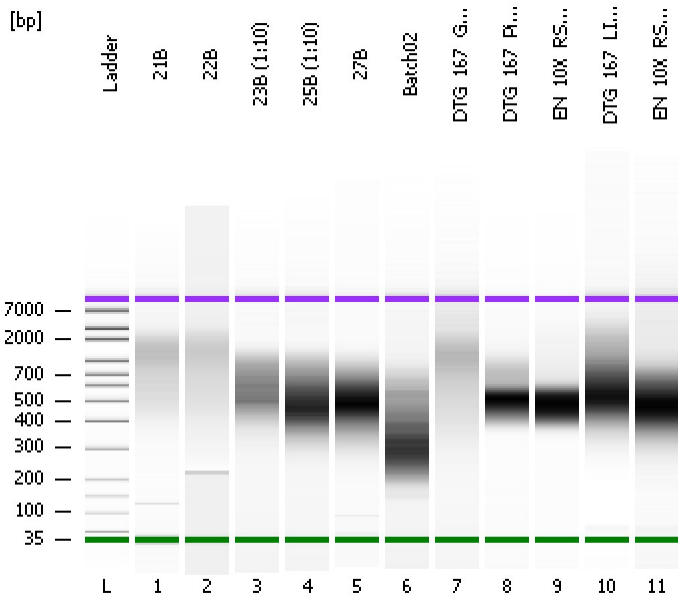


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
Modified: 3/14/2018 5:19:42 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

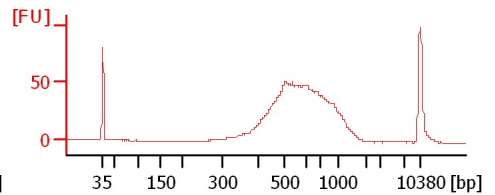
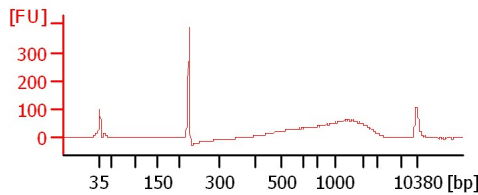
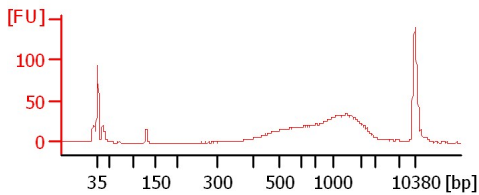
Chip Information:

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

21B

22B

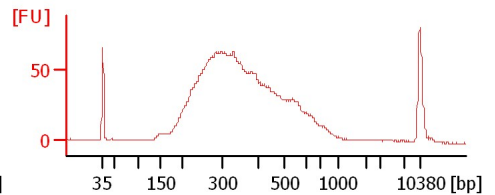
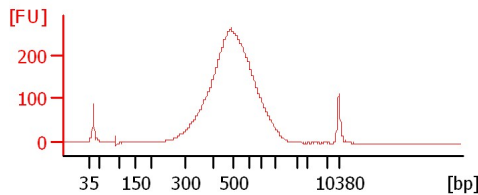
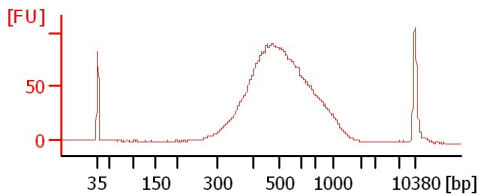
23B (1:10)



25B (1:10)

27B

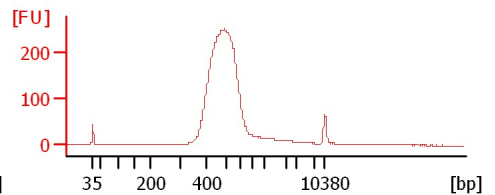
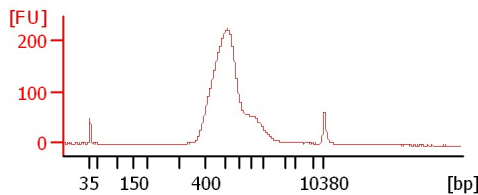
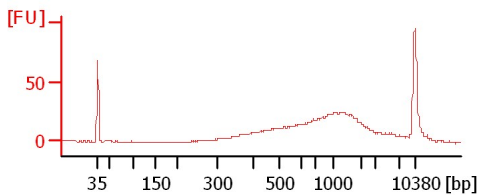
Batch02



DTG_167_GEM (Dil)

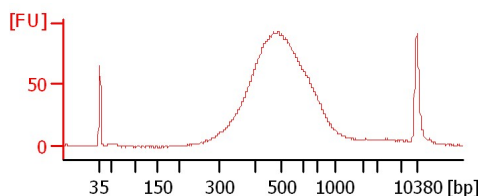
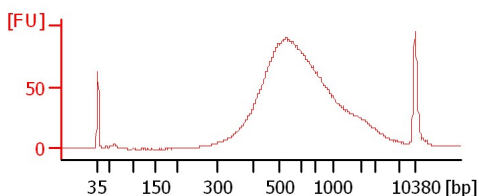
DTG_167_Pippin

EN_10X_RS_Pippin



DTG_167_LIB (1:10)

EN_10X_RS_LIB (1:10)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
Modified: 3/14/2018 5:19:42 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
21B		<input type="checkbox"/>	✓			
22B		<input type="checkbox"/>	✓			
23B (1:10)		<input type="checkbox"/>	✓			
25B (1:10)		<input type="checkbox"/>	✓			
27B		<input type="checkbox"/>	✓			
Batch02		<input type="checkbox"/>	✓			
DTG_167_GEM (Dil)		<input type="checkbox"/>	✓			
DTG_167_Pippin		<input type="checkbox"/>	✓			
EN_10X_RS_Pippin		<input type="checkbox"/>	✓			
DTG_167_LIB (1:10)		<input type="checkbox"/>	✓			
EN_10X_RS_LIB (1:10)		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

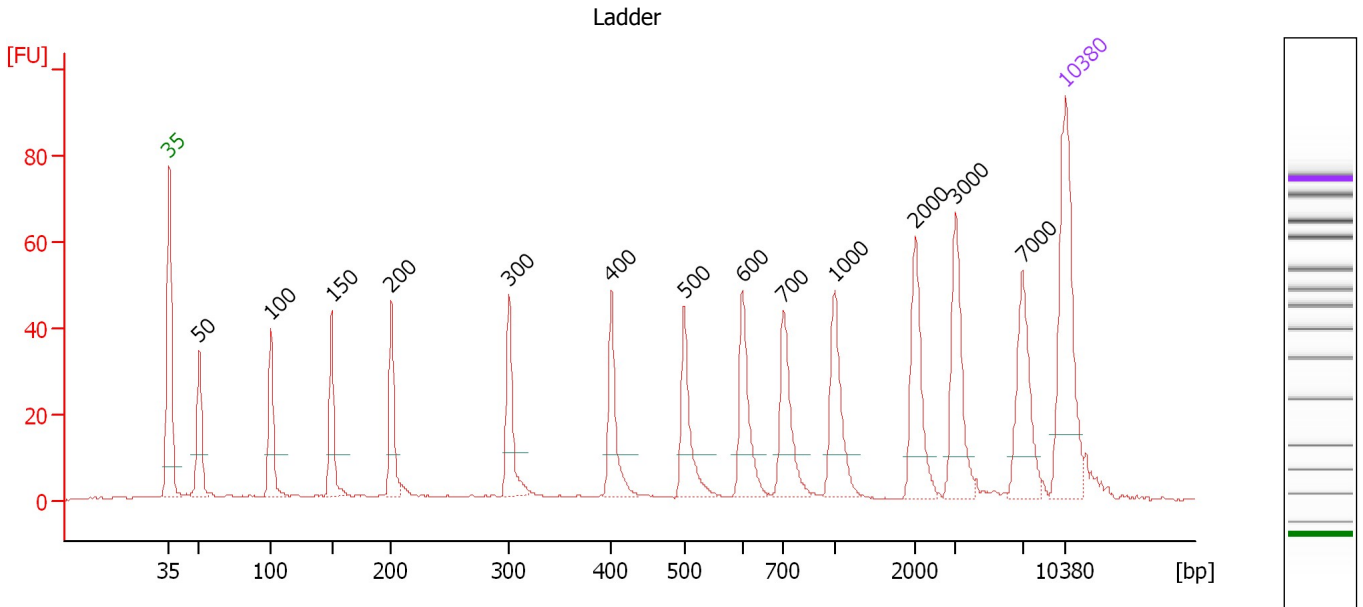
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

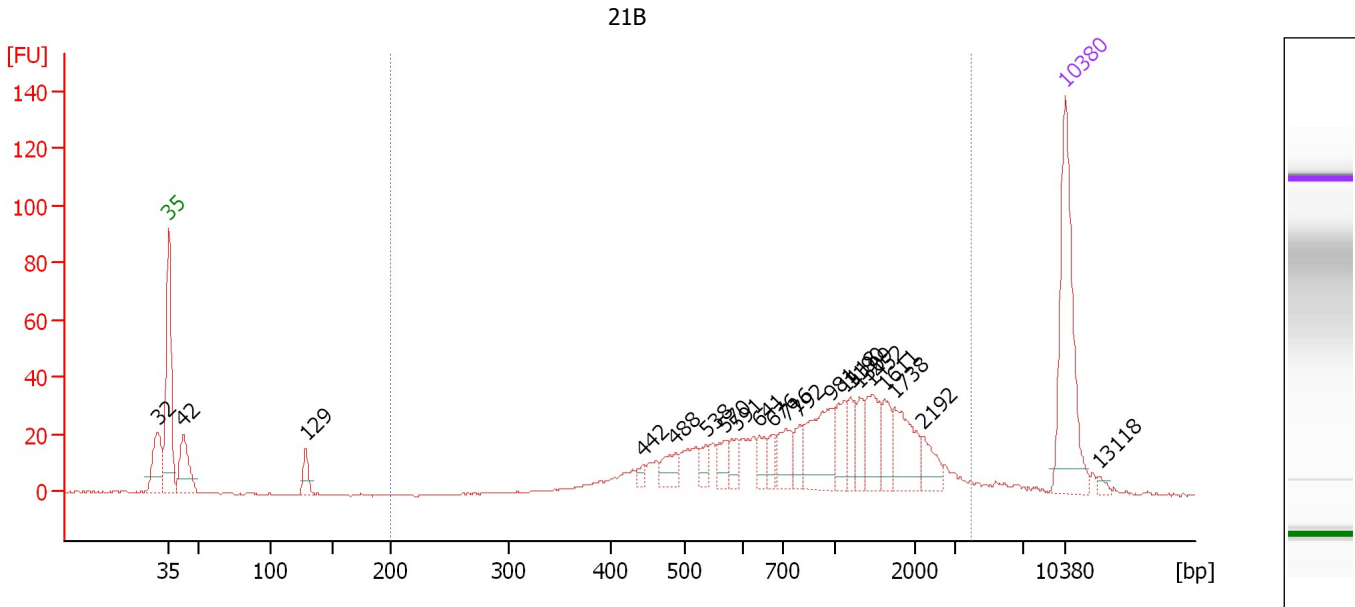
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	50.96
4	150	150.00	1,515.2	Ladder Peak	55.69
5	200	150.00	1,136.4	Ladder Peak	60.36
6	300	150.00	757.6	Ladder Peak	69.57
7	400	150.00	568.2	Ladder Peak	77.53
8	500	150.00	454.5	Ladder Peak	83.25
9	600	150.00	378.8	Ladder Peak	87.78
10	700	150.00	324.7	Ladder Peak	91.01
11	1,000	150.00	227.3	Ladder Peak	94.99
12	2,000	150.00	113.6	Ladder Peak	101.31
13	3,000	150.00	75.8	Ladder Peak	104.44
14	7,000	150.00	32.5	Ladder Peak	109.72
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 21B

Number of peaks found: 21 Corr. Area 1: 662.6
 Noise: 0.2


Peak table for sample 1 : 21B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.10
2	35	125.00	5,411.3	Lower Marker	43.00
3	42	43.57	1,568.9		44.10
4	129	14.59	171.5		53.69
5	442	4.34	14.9		79.93
6	488	14.48	45.0		82.54
7	538	8.07	22.7		84.95
8	570	11.89	31.6		86.41
9	591	11.63	29.8		87.36
10	641	10.74	25.4		89.11
11	676	9.62	21.6		90.22
12	716	19.99	42.3		91.22
13	792	12.28	23.5		92.23
14	981	42.26	65.3		94.73
15	1,118	18.92	25.6		95.74
16	1,190	14.42	18.4		96.19
17	1,309	13.11	15.2		96.94
18	1,452	24.98	26.1		97.85
19	1,611	17.38	16.4		98.85
20	1,738	30.89	26.9		99.65
21	2,192	14.20	9.8		101.91
22	10,380	75.00	10.9	Upper Marker	113.00
23	13,118	0.00	0.0		115.66

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
Modified: 3/14/2018 5:19:42 PM

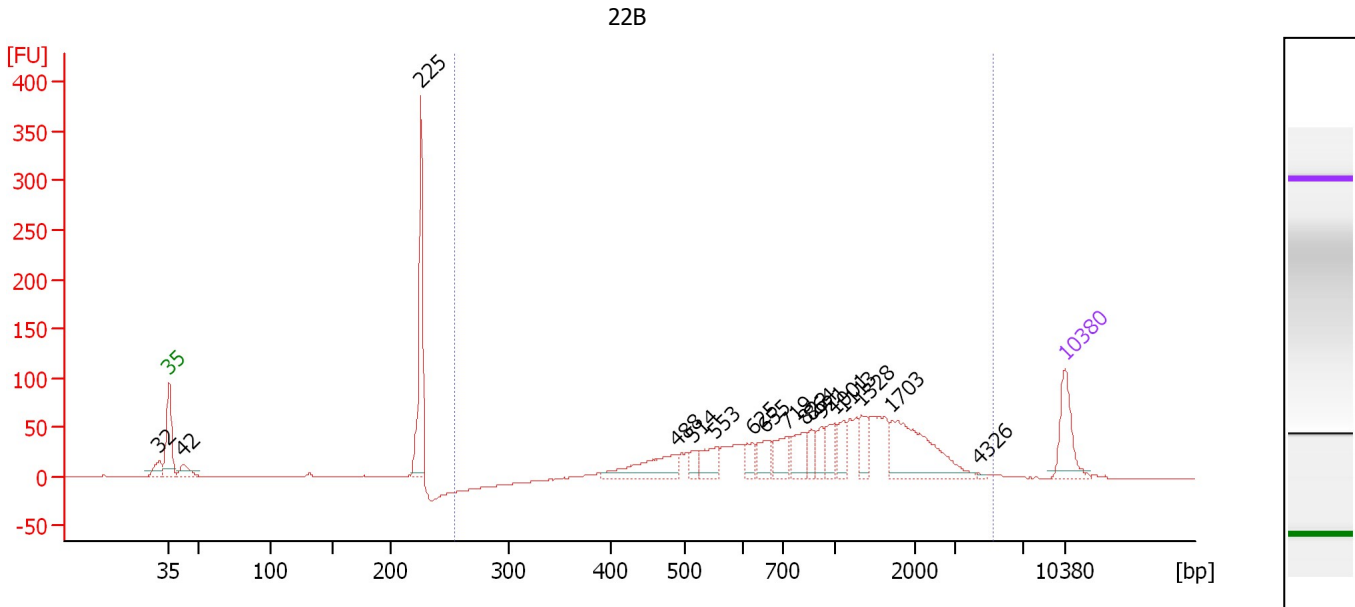
Electropherogram Summary Continued ...**... Region table for sample 1 : 21B**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/ μ l]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	3,895	1,098	662.6	440.54	903.2	 81	59.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 22B

Number of peaks found: 17 Corr. Area 1: 1,132.7
 Noise: 0.3

Peak table for sample 2 : 22B

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	42	38.76	1,394.3		44.11
4	225	287.94	1,938.6		62.67
5	488	105.25	326.5		82.59
6	514	21.10	62.1		83.90
7	553	51.23	140.3		85.67
8	625	29.30	71.0		88.59
9	655	46.89	108.5		89.55
10	719	54.36	114.5		91.26
11	822	57.24	105.5		92.63
12	864	29.92	52.5		93.18
13	921	32.87	54.1		93.94
14	1,001	38.67	58.5		95.00
15	1,113	42.37	57.7		95.70
16	1,328	42.00	47.9		97.06
17	1,703	174.24	155.0		99.43
18	4,326	2.55	0.9		106.19
19	10,380	75.00	10.9	Upper Marker	113.00

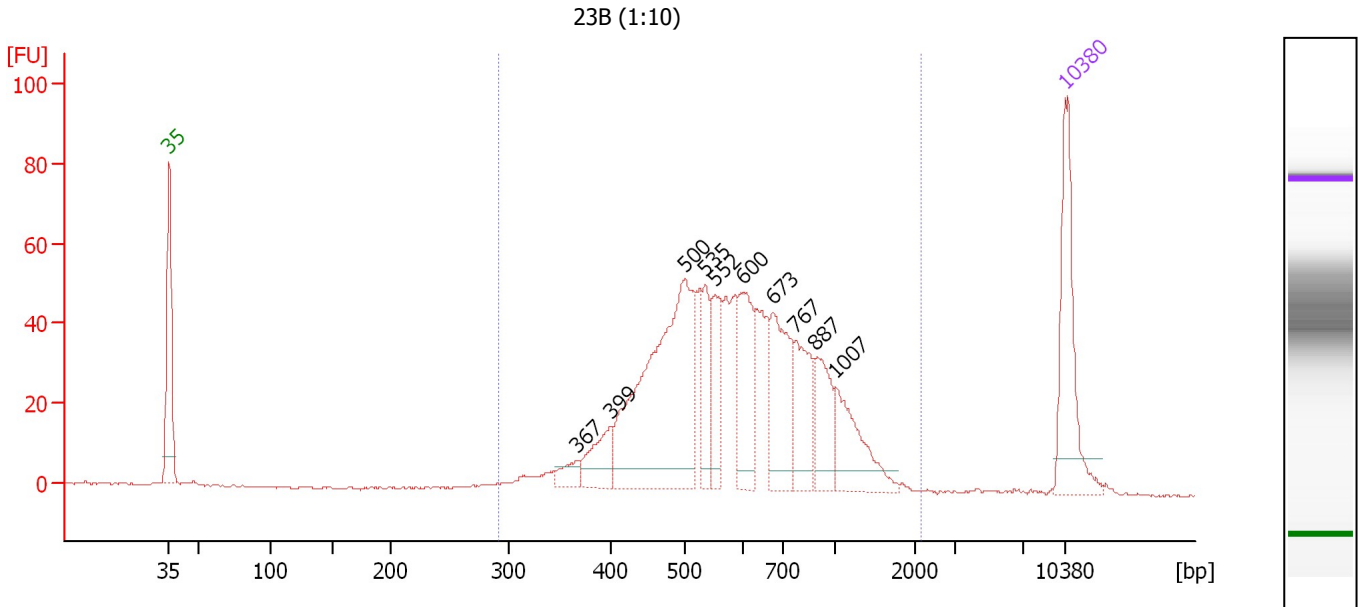
Region table for sample 2 : 22B

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
253	5,157	1,186	1,132.7	975.07	1,822.6	78	60.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 23B (1:10)

Number of peaks found: 10 Corr. Area 1: 934.1
 Noise: 0.3

Peak table for sample 3 : 23B (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	367	15.93	65.8		74.91
3	399	38.48	146.2		77.43
4	500	276.69	838.4		83.25
5	535	43.19	122.2		84.85
6	552	46.81	128.4		85.62
7	600	73.57	185.8		87.78
8	673	83.91	188.8		90.15
9	767	58.50	115.6		91.90
10	887	47.24	80.7		93.49
11	1,007	57.47	86.4		95.04
12	10,380	75.00	10.9	Upper Marker	113.00

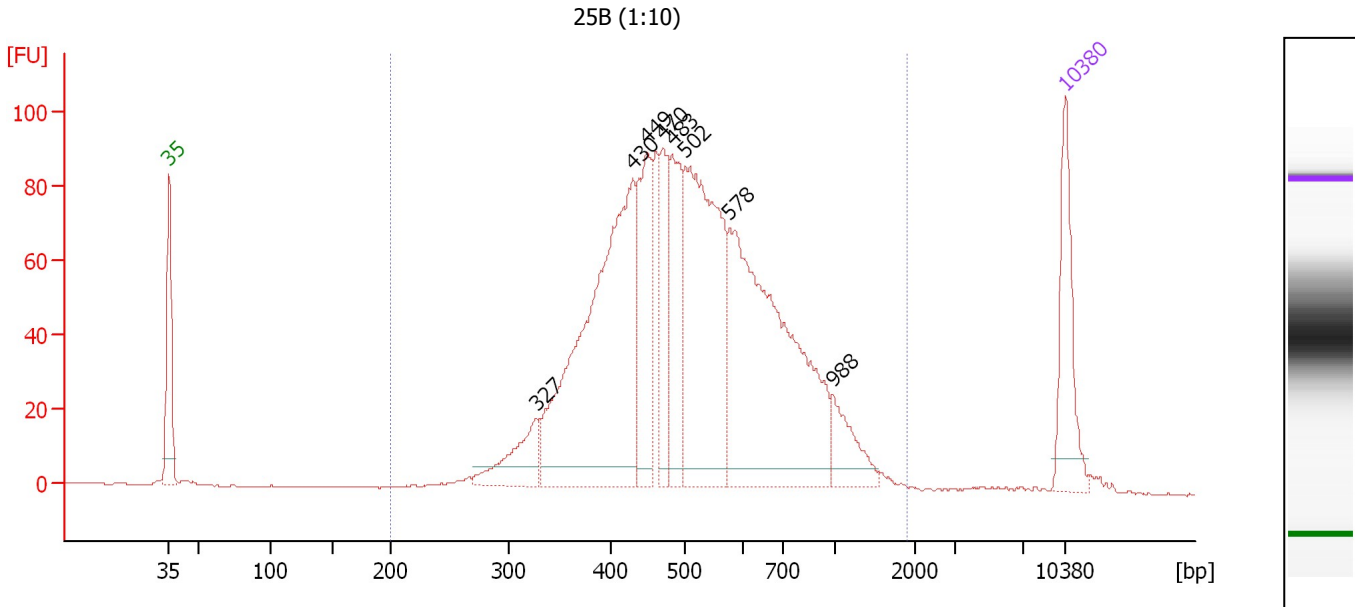
Region table for sample 3 : 23B (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
291	2,119	644	934.1	934.98	2,518.0	99	38.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 25B (1:10)

Number of peaks found: 8 Corr. Area 1: 1,788.5
 Noise: 0.2

Peak table for sample 4 : 25B (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	327	72.28	334.8		71.72
3	430	480.18	1,692.6		79.23
4	449	134.60	454.1		80.34
5	470	90.43	291.4		81.54
6	483	122.08	382.9		82.28
7	502	345.76	1,044.0		83.33
8	578	414.56	1,086.1		86.80
9	988	48.18	73.9		94.83
10	10,380	75.00	10.9	Upper Marker	113.00

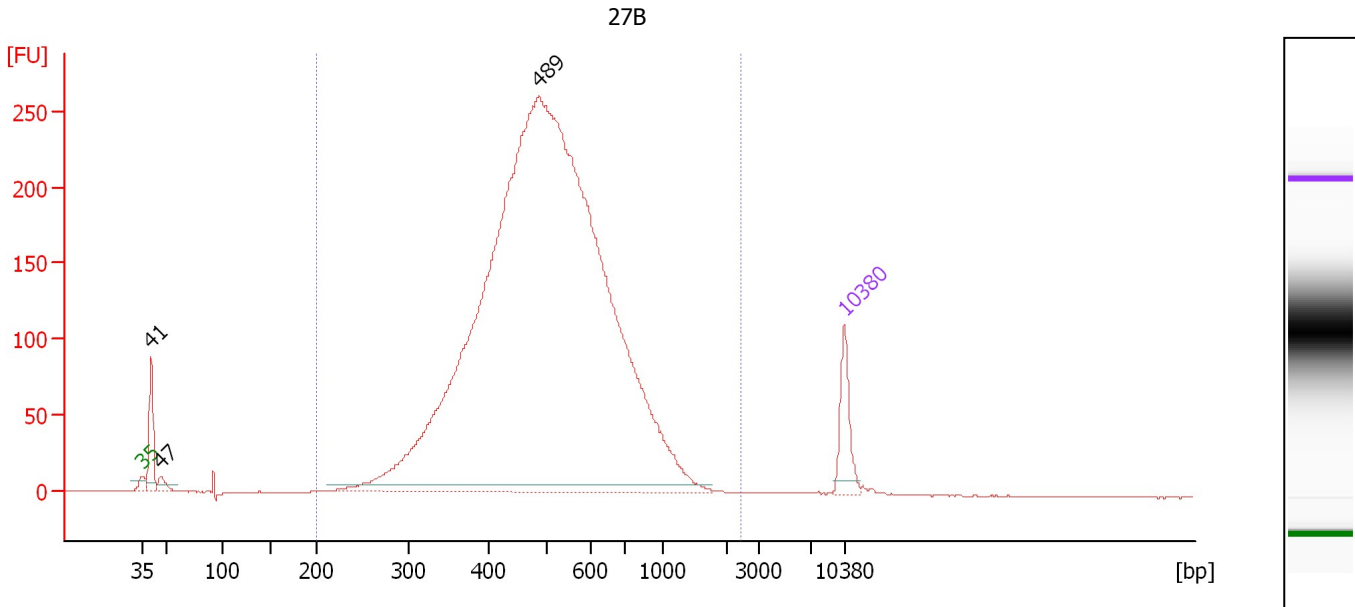
Region table for sample 4 : 25B (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,887	548	1,788.5	1,823.14	5,740.4	98	37.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 27B

Number of peaks found: 3 Corr. Area 1: 4,561.4
 Noise: 0.2

Peak table for sample 5 : 27B

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	41	146.65	5,446.6		43.90
3	47	29.05	937.8		44.86
4	489	4,451.47	13,803.5		82.60
5	10,380	75.00	10.9	Upper Marker	113.00

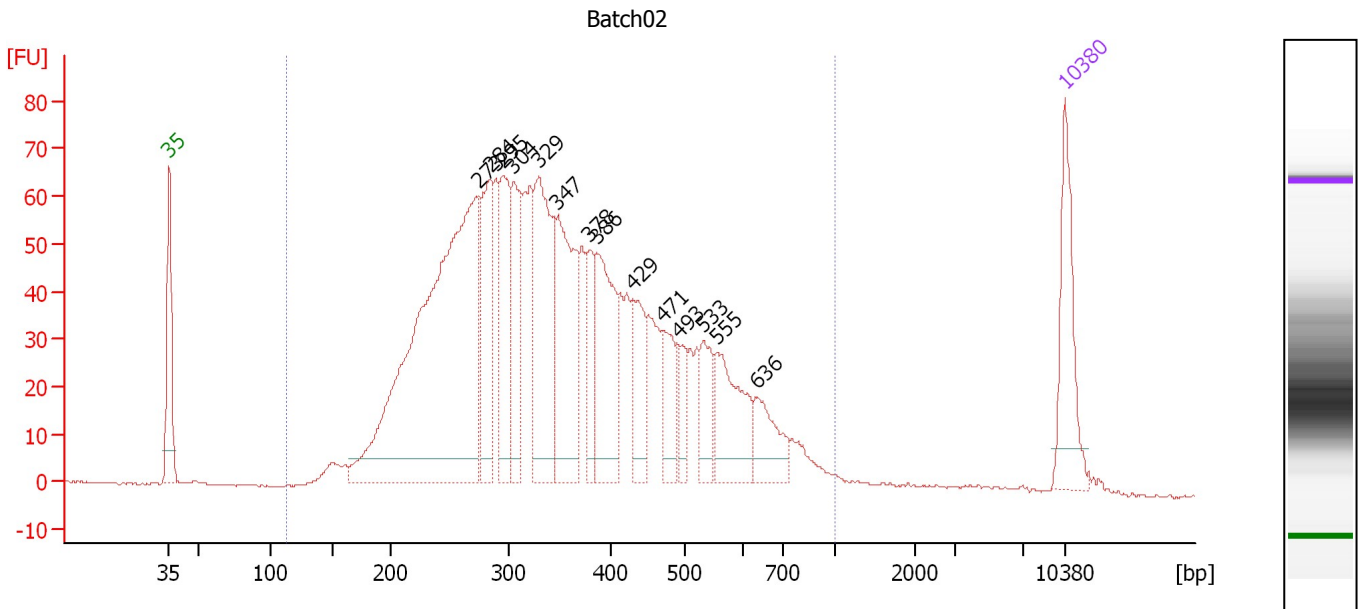
Region table for sample 5 : 27B

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	2,454	528	4,561.4	4,440.60	14,166.2	97	32.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Batch02

Number of peaks found: 14 Corr. Area 1: 1,835.0
 Noise: 0.3

Peak table for sample 6 : Batch02

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	717.98	3,978.6		67.12
3	284	135.00	721.3		68.05
4	295	127.23	653.7		69.10
5	304	107.30	535.2		69.87
6	329	195.19	899.9		71.85
7	347	171.61	748.8		73.33
8	378	61.01	244.4		75.80
9	386	134.53	528.2		76.41
10	429	70.62	249.2		79.21
11	471	56.63	182.3		81.57
12	493	31.83	97.9		82.84
13	533	46.26	131.4		84.76
14	555	94.07	256.7		85.75
15	636	51.71	123.2		88.93
16	10,380	75.00	10.9	Upper Marker	113.00

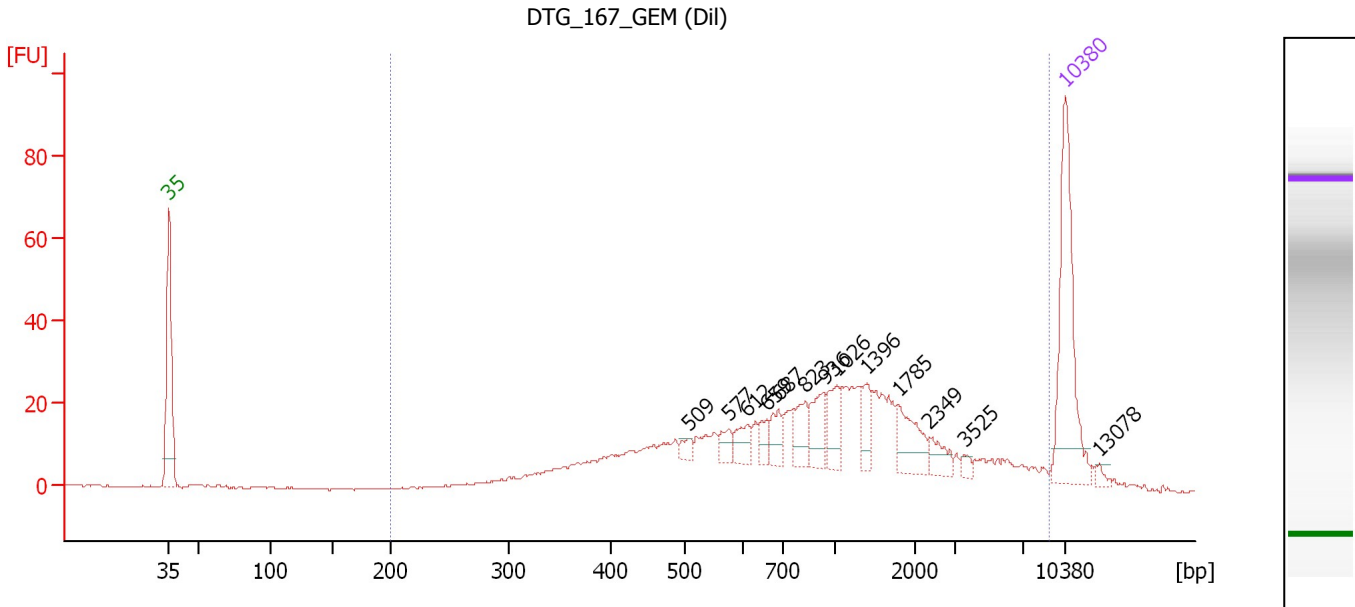
Region table for sample 6 : Batch02

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
112	1,000	369	1,835.0	2,632.24	12,700.1	98	36.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : DTG_167_GEM (Dil)

Number of peaks found: 13 Corr. Area 1: 604.4
 Noise: 0.3

Peak table for sample 7 : DTG_167_GEM (Dil)

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	509	6.02	17.9		83.66
3	577	9.05	23.8		86.73
4	612	13.41	33.2		88.18
5	659	8.53	19.6		89.69
6	687	14.57	32.1		90.58
7	823	19.07	35.1		92.64
8	936	21.35	34.5		94.15
9	1,026	22.40	33.1		95.15
10	1,396	16.03	17.4		97.49
11	1,785	24.48	20.8		99.95
12	2,349	10.68	6.9		102.40
13	3,525	3.56	1.5		105.14
14	10,380	75.00	10.9	Upper Marker	113.00
15	13,078	0.00	0.0		115.62

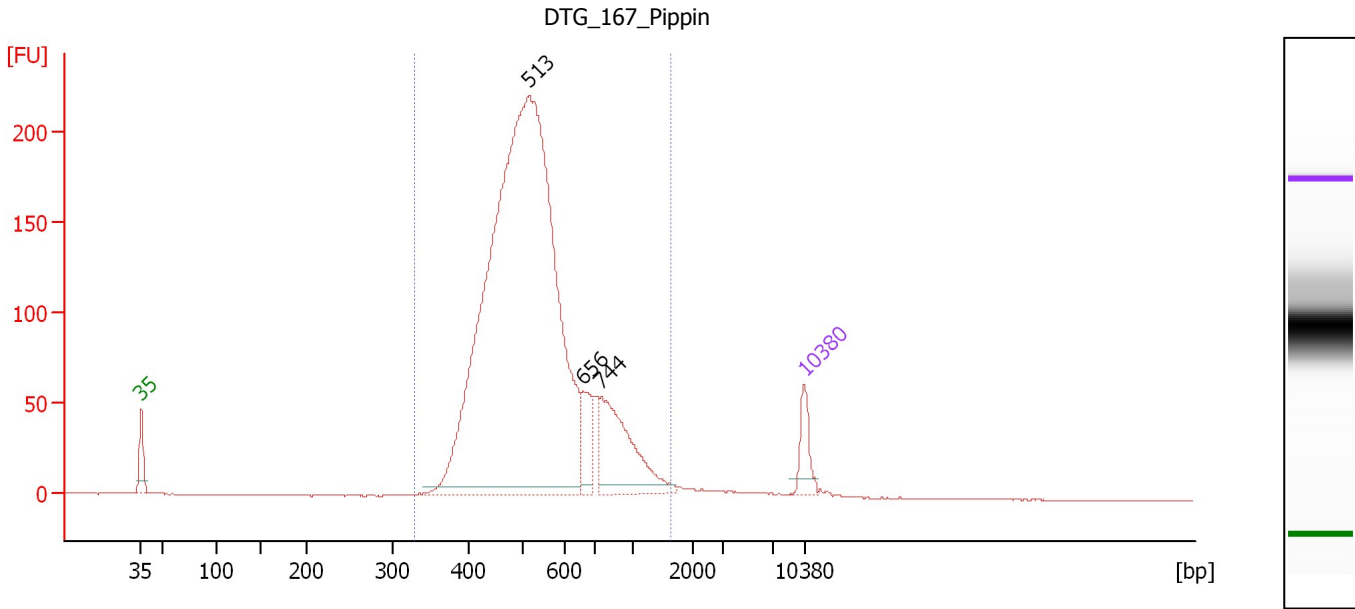
Region table for sample 7 : DTG_167_GEM (Dil)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	9,091	1,465	604.4	583.59	1,282.9	95	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : DTG 167 Pippin

Number of peaks found: 3 Corr. Area 1: 2,537.1
 Noise: 0.4

Peak table for sample 8 : DTG 167 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	513	3,759.95	11,109.2		83.83
3	656	125.99	291.2		89.57
4	744	374.06	761.3		91.60
5	10,380	75.00	10.9	Upper Marker	113.00

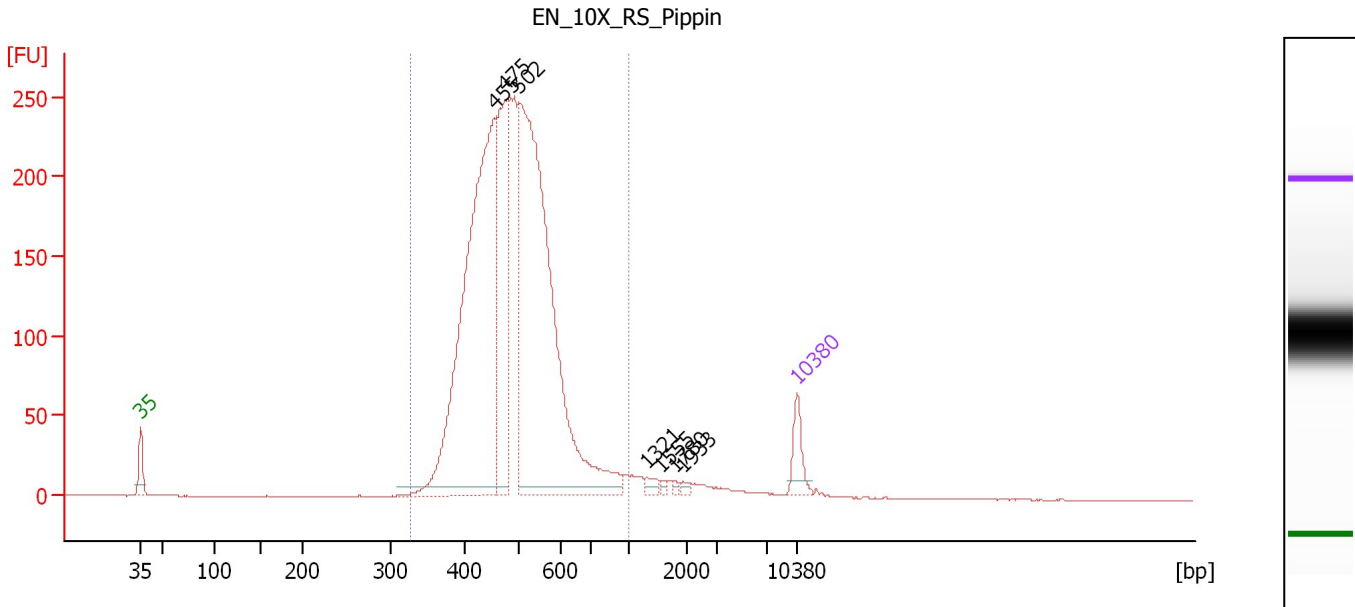
Region table for sample 8 : DTG 167 Pippin

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
330	1,636	557	2,537.1	4,362.35	12,757.0	98	29.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : EN 10X RS Pippin

Number of peaks found: 7 Corr. Area 1: 2,989.7
 Noise: 0.2

Peak table for sample 9 : EN 10X RS 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	455	1,928.75	6,416.1		80.70
3	475	585.61	1,866.6		81.84
4	502	2,094.50	6,328.0		83.32
5	1,321	22.28	25.6		97.02
6	1,555	9.37	9.1		98.50
7	1,780	8.06	6.9		99.92
8	1,933	10.55	8.3		100.89
9	10,380	75.00	10.9	Upper Marker	113.00

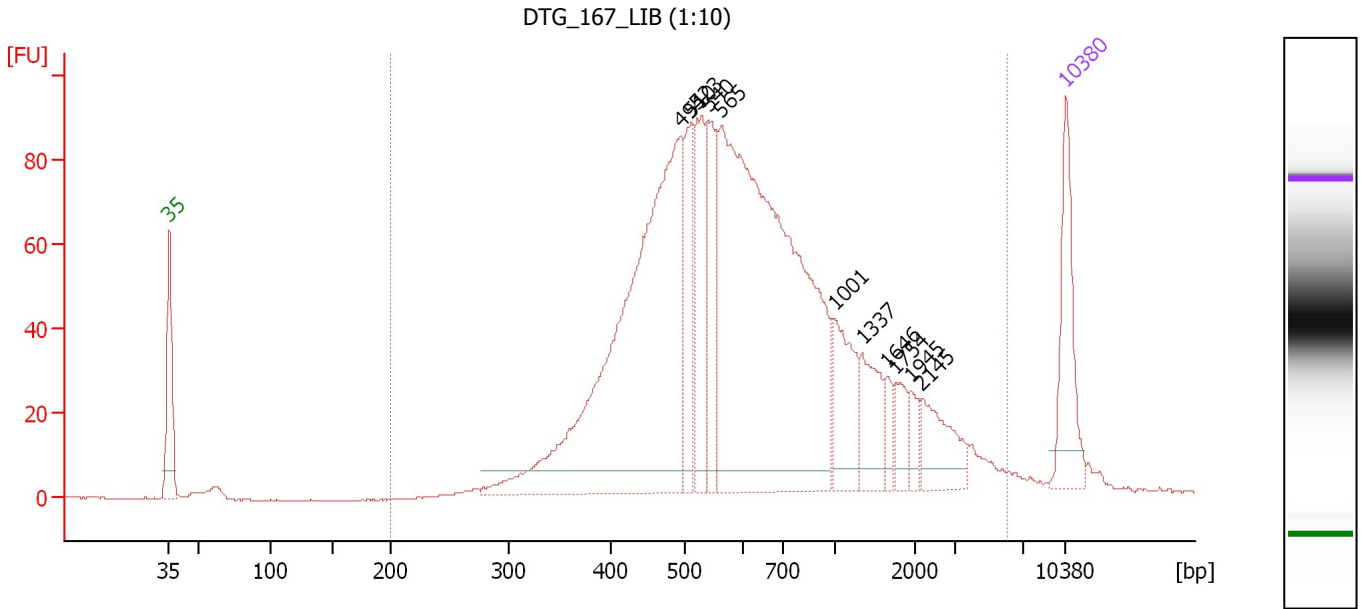
Region table for sample 9 : EN 10X RS Pippin

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
329	1,000	497	2,989.7	5,168.47	16,276.7	95	17.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : DTG 167 LIB (1:10)

Number of peaks found: 11 Corr. Area 1: 1,790.7
 Noise: 0.2

Peak table for sample 10 : DTG 167 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	494	669.89	2,054.9		82.90
3	510	91.00	270.3		83.70
4	523	118.98	344.9		84.28
5	540	101.36	284.2		85.08
6	565	753.74	2,023.0		86.17
7	1,001	76.76	116.2		95.00
8	1,337	56.54	64.1		97.12
9	1,646	18.32	16.9		99.07
10	1,754	24.82	21.4		99.76
11	1,945	16.09	12.5		100.96
12	2,145	51.49	36.4		101.76
13	10,380	75.00	10.9	Upper Marker	113.00

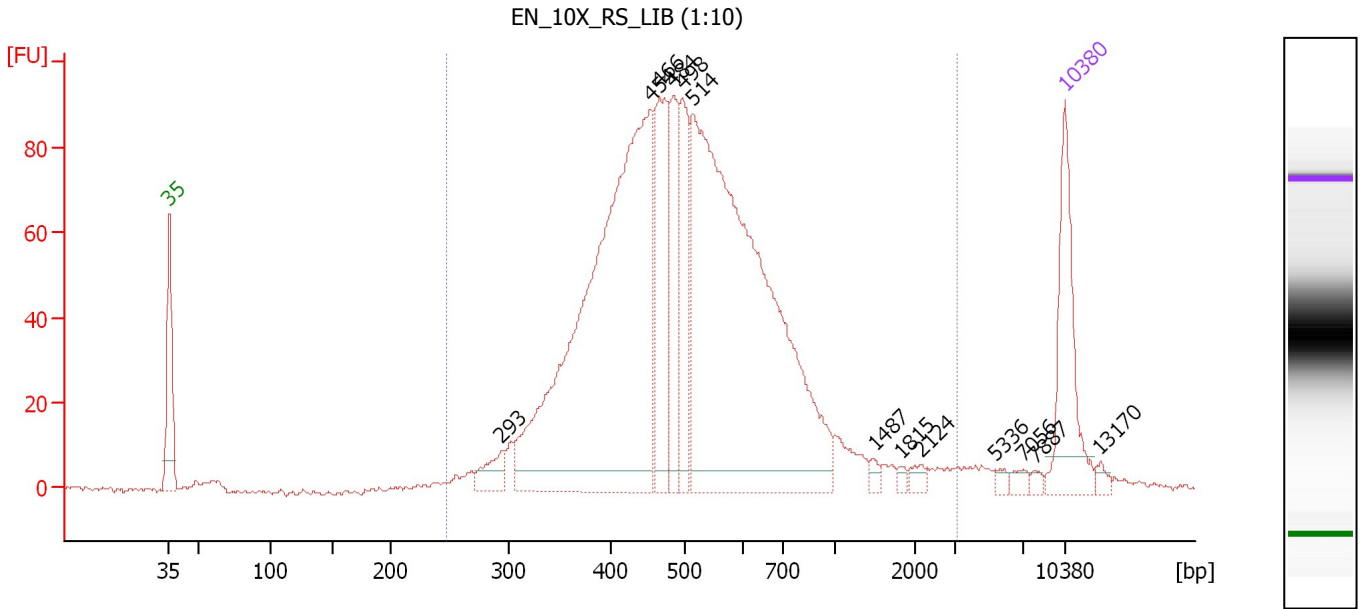
Region table for sample 10 : DTG 167 LIB (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	6,020	831	1,790.7	2,063.43	5,445.4	98	86.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : EN 10X RS LIB (1:10)

Number of peaks found: 13 Corr. Area 1: 1,712.7
 Noise: 0.7

Peak table for sample 11 : EN 10X RS 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	293	26.26	135.6		68.95
3	454	638.55	2,132.9		80.59
4	466	128.59	418.4		81.29
5	484	82.91	259.6		82.32
6	498	86.80	264.1		83.13
7	514	672.17	1,981.5		83.88
8	1,487	4.86	5.0		98.07
9	1,815	3.46	2.9		100.14
10	2,124	6.51	4.6		101.70
11	5,336	4.27	1.2		107.52
12	7,056	5.76	1.2		109.77
13	7,887	3.61	0.7		110.58
14	10,380	75.00	10.9	Upper Marker	113.00
15	13,170	0.00	0.0		115.71

Region table for sample 11 : EN 10X RS 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 [%]
248	3,033	563	1,712.7	1,703.43	5,405.0	96	54.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
Modified: 3/14/2018 5:19:42 PM

Gel Image

