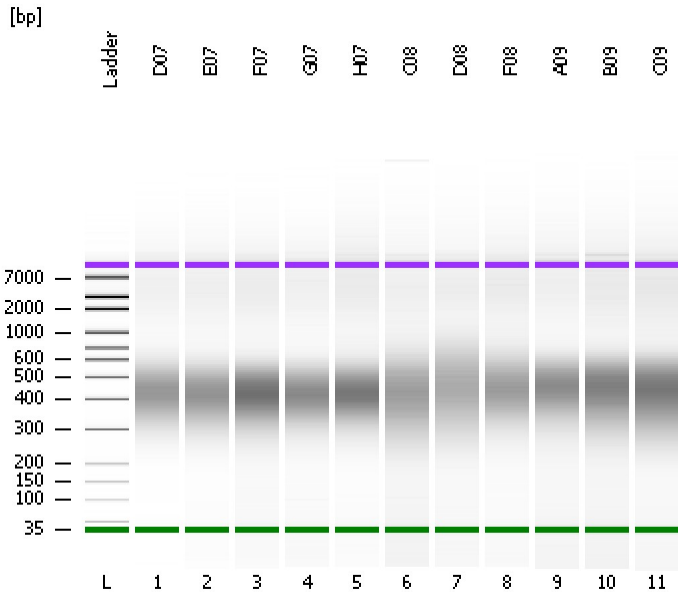


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
Modified: 8/17/2017 4:47:13 PM

Electrophoresis File Run Summary



Instrument Information:

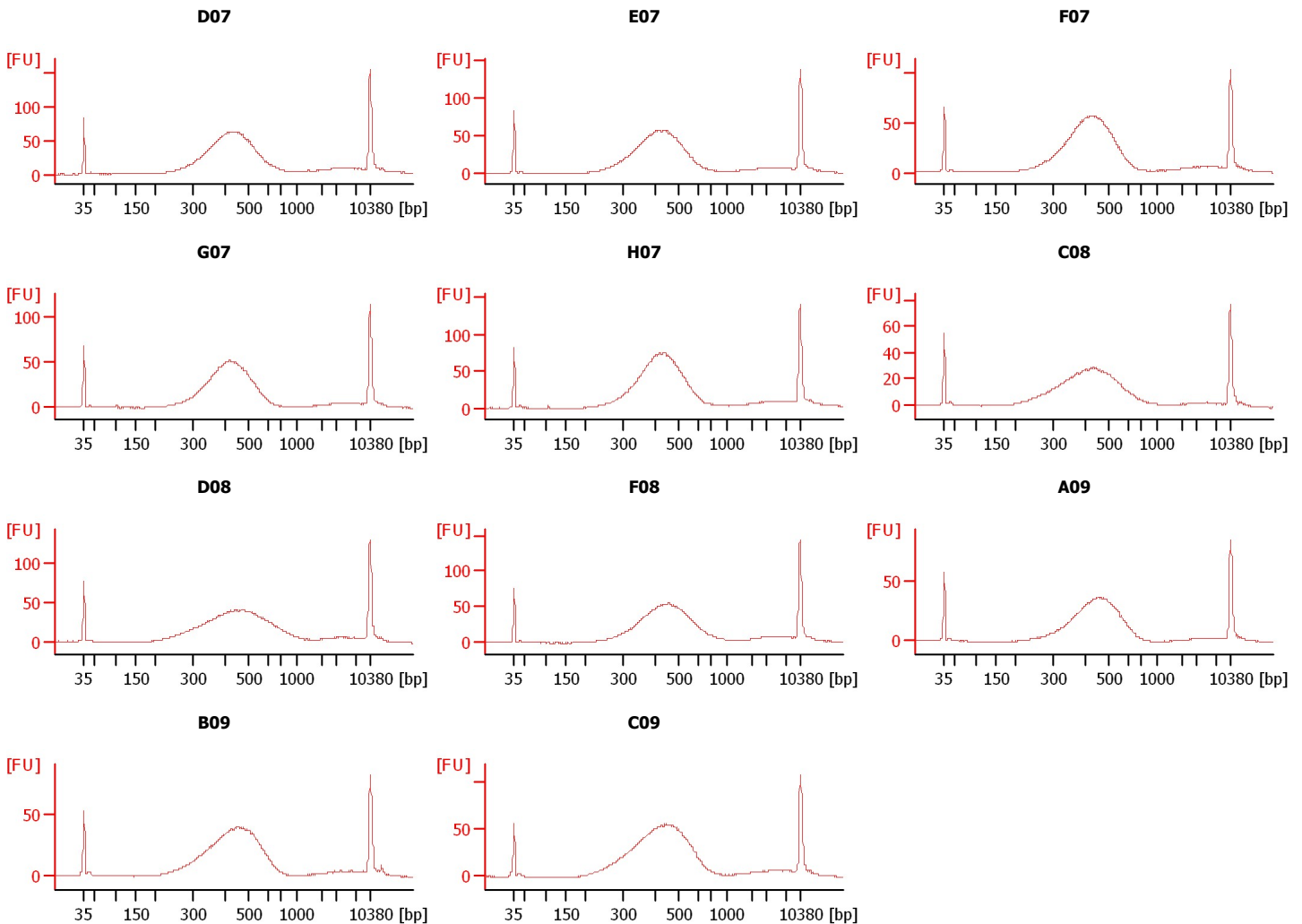
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
 Modified: 8/17/2017 4:47:13 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
D07		<input type="checkbox"/>	✓			
E07		<input type="checkbox"/>	✓			
F07		<input type="checkbox"/>	✓			
G07		<input type="checkbox"/>	✓			
H07		<input type="checkbox"/>	✓			
C08		<input type="checkbox"/>	✓			
D08		<input type="checkbox"/>	✓			
F08		<input type="checkbox"/>	✓			
A09		<input type="checkbox"/>	✓			
B09		<input type="checkbox"/>	✓			
C09		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

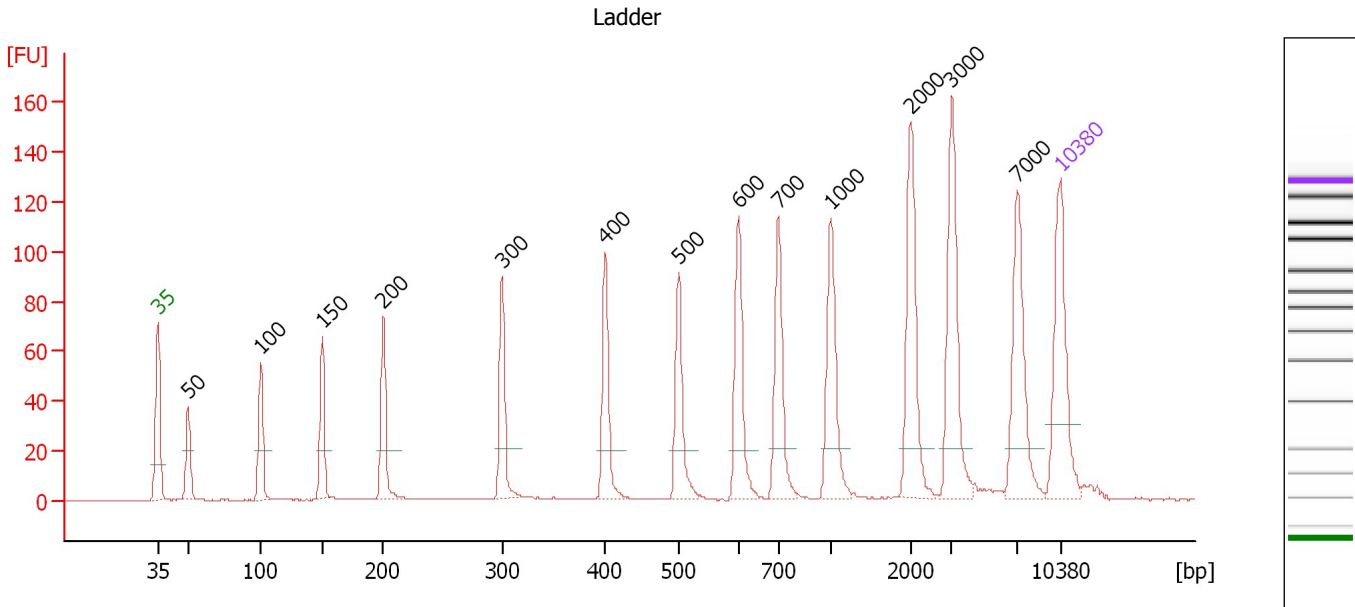
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
 Modified: 8/17/2017 4:47:13 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

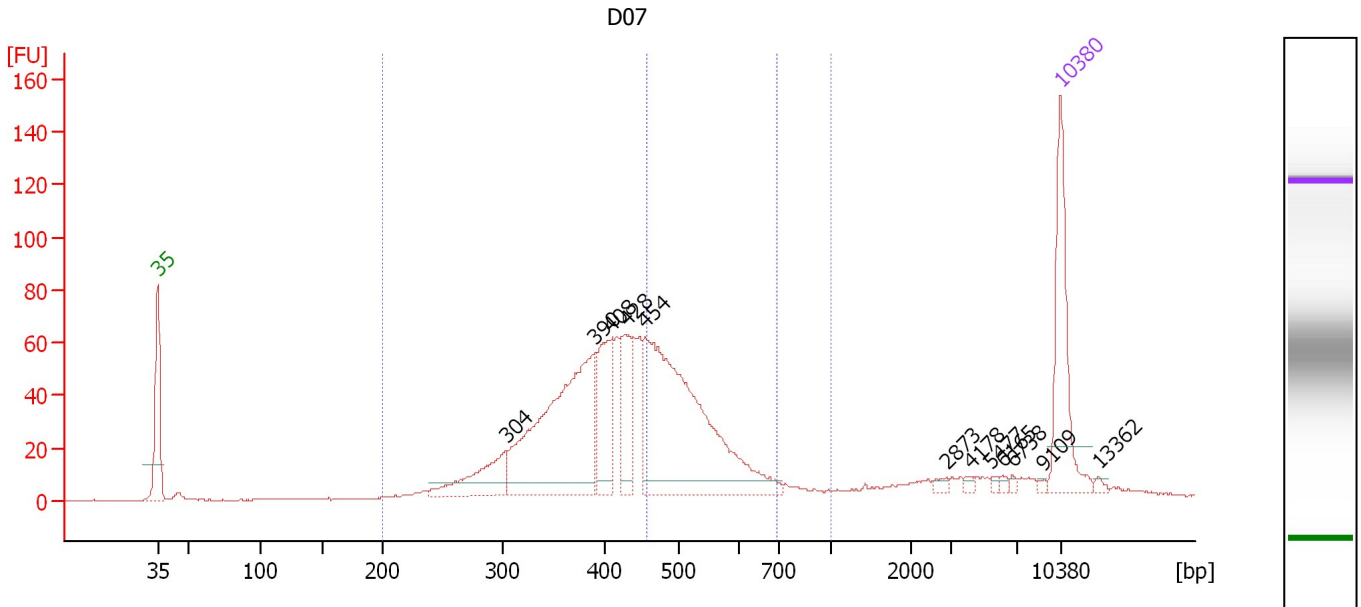
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	51.02
4	150	150.00	1,515.2	Ladder Peak	55.78
5	200	150.00	1,136.4	Ladder Peak	60.49
6	300	150.00	757.6	Ladder Peak	69.71
7	400	150.00	568.2	Ladder Peak	77.74
8	500	150.00	454.5	Ladder Peak	83.40
9	600	150.00	378.8	Ladder Peak	88.07
10	700	150.00	324.7	Ladder Peak	91.14
11	1,000	150.00	227.3	Ladder Peak	95.22
12	2,000	150.00	113.6	Ladder Peak	101.42
13	3,000	150.00	75.8	Ladder Peak	104.54
14	7,000	150.00	32.5	Ladder Peak	109.64
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

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 Modified: 8/17/2017 4:47:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : D07

Number of peaks found: 12 Corr. Area 1: 1,163.5
 Noise: 0.2 Corr. Area 2: 379.7

Peak table for sample 1 : D07

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	304	63.23	315.6		70.00
3	390	254.63	990.1		76.91
4	408	75.65	281.2		78.17
5	428	54.27	192.0		79.34
6	454	315.20	1,051.9		80.80
7	2,873	3.81	2.0		104.15
8	4,178	2.96	1.1		106.04
9	5,477	2.19	0.6		107.70
10	6,165	2.52	0.6		108.57
11	6,738	2.16	0.5		109.30
12	9,109	2.00	0.3		111.74
13	10,380	75.00	10.9	Upper Marker	113.00
14	13,362	0.00	0.0		115.97

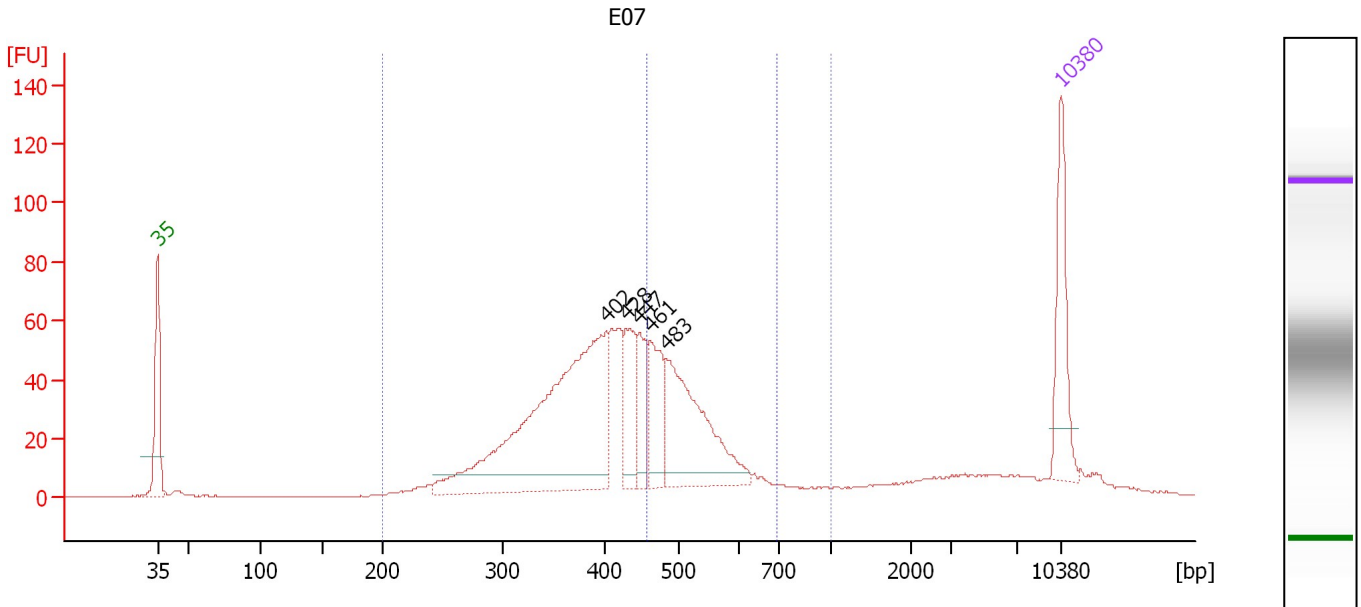
Region table for sample 1 : D07

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	436	1,163.5	3,540.1	941.53	88	24.4
457	695	522	379.7	860.8	293.07	29	10.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
 Modified: 8/17/2017 4:47:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : E07

Number of peaks found: 5 Corr. Area 1: 1,076.8
 Noise: 0.2 Corr. Area 2: 321.3

Peak table for sample 2 : E07

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	402	468.72	1,768.2		77.83
3	428	77.64	274.5		79.35
4	447	50.30	170.6		80.38
5	461	82.20	270.4		81.17
6	483	194.69	610.6		82.45
7	10,380	75.00	10.9	Upper Marker	113.00

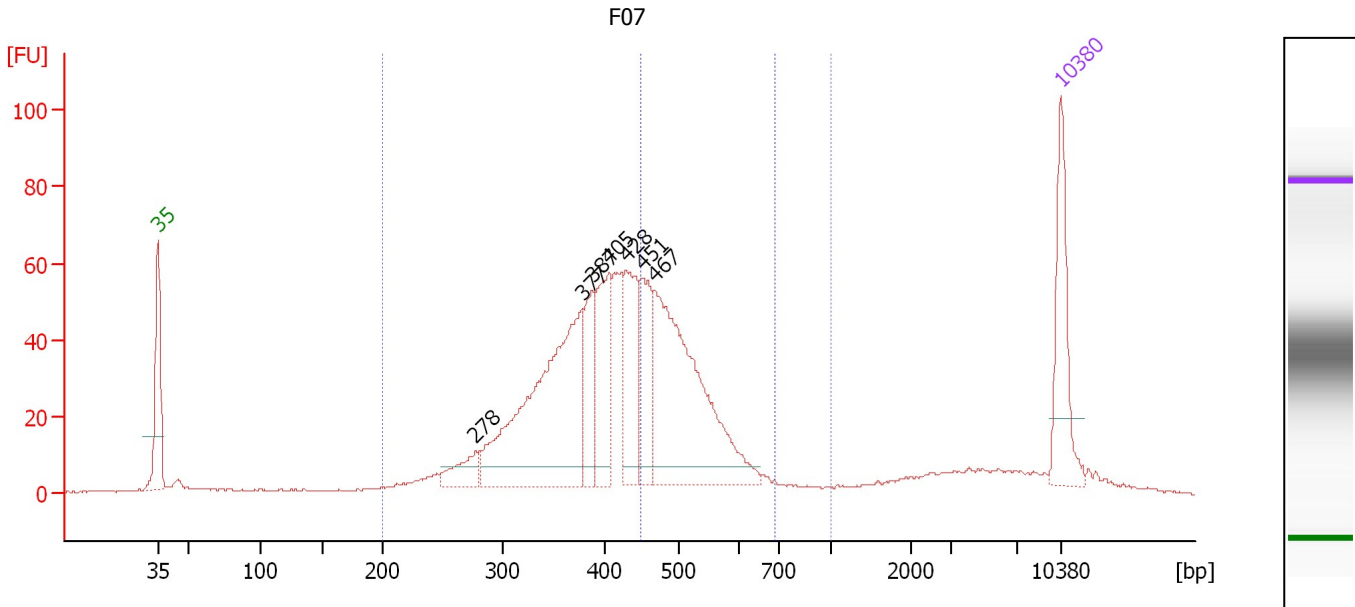
Region table for sample 2 : E07

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	428	1,076.8	4,431.3	1,155.25	87	24.7
457	698	519	321.2	967.3	327.57	26	10.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
 Modified: 8/17/2017 4:47:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : F07

Number of peaks found: 7 Corr. Area 1: 1,076.9
 Noise: 0.2 Corr. Area 2: 362.5

Peak table for sample 3 : F07

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	278	37.93	207.1		67.64
3	377	339.10	1,362.9		75.89
4	387	70.65	276.7		76.68
5	405	103.55	387.3		78.02
6	428	113.23	401.0		79.32
7	451	83.42	280.5		80.61
8	467	312.11	1,011.9		81.55
9	10,380	75.00	10.9	Upper Marker	113.00

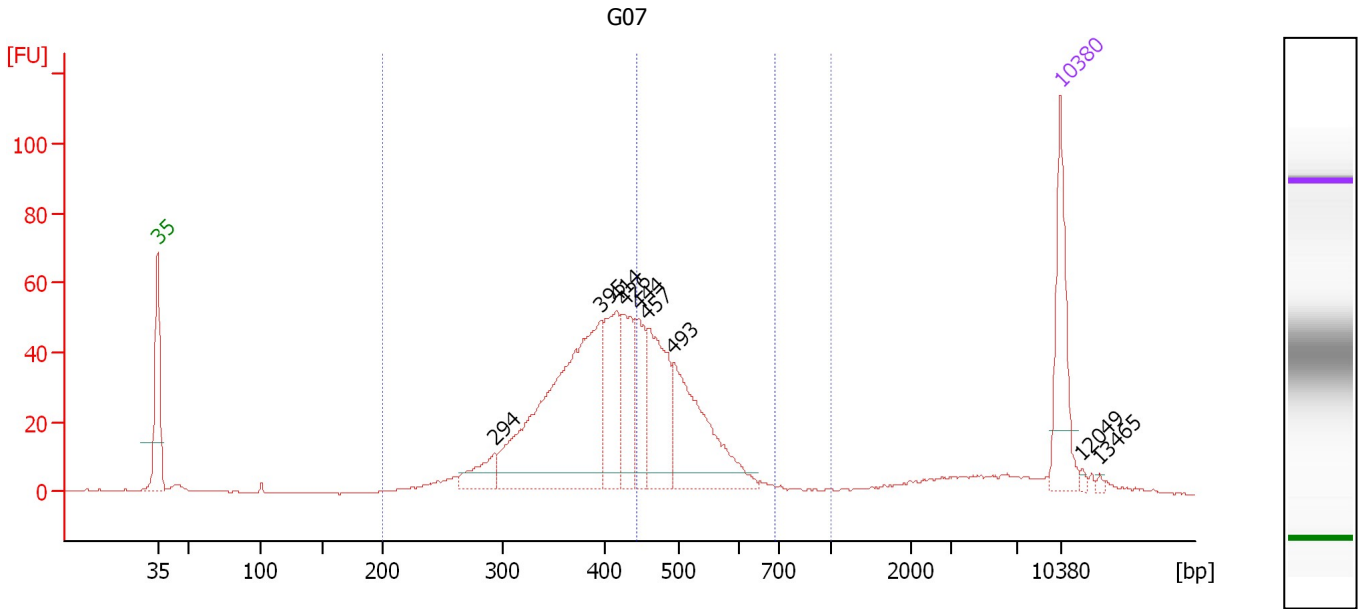
Region table for sample 3 : F07

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	426	1,076.9	5,097.7	1,325.35	85	23.8
447	691	510	362.5	1,277.0	425.18	29	10.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
 Modified: 8/17/2017 4:47:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : G07

Number of peaks found: 9 Corr. Area 1: 898.8
 Noise: 0.2 Corr. Area 2: 315.6

Peak table for sample 4 : G07

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	294	40.34	208.2		69.12
3	395	372.98	1,431.3		77.32
4	414	108.34	396.5		78.53
5	426	76.34	271.8		79.18
6	444	68.71	234.4		80.24
7	457	121.83	403.5		80.99
8	493	163.62	502.9		83.01
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,049	0.00	0.0		114.66
11	13,465	0.00	0.0		116.07

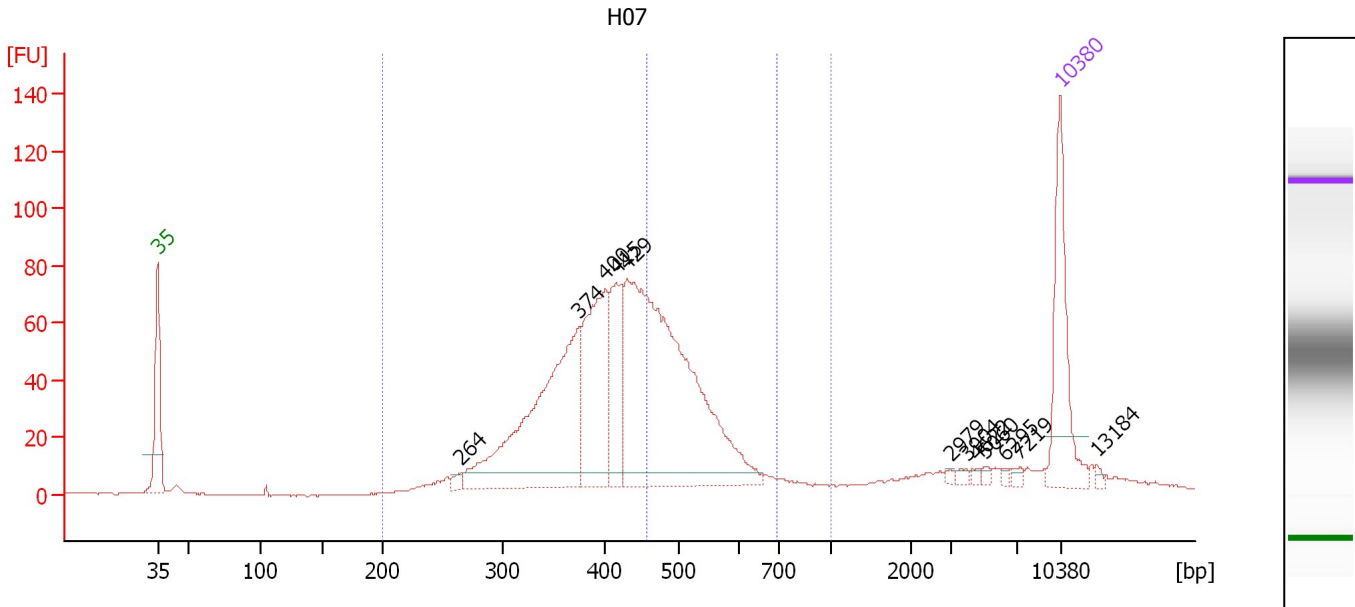
Region table for sample 4 : G07

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	426	898.8	4,166.5	1,095.35	88	22.4
442	690	505	315.6	1,118.2	368.37	31	10.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
 Modified: 8/17/2017 4:47:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : H07

Number of peaks found: 12 Corr. Area 1: 1,300.8
 Noise: 0.2 Corr. Area 2: 411.8

Peak table for sample 5 : H07

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	264	6.22	35.6		66.43
3	374	270.91	1,096.9		75.67
4	400	154.16	583.7		77.75
5	415	84.18	307.7		78.56
6	429	441.19	1,558.9		79.37
7	2,979	2.09	1.1		104.48
8	3,904	3.14	1.2		105.70
9	4,622	2.65	0.9		106.61
10	5,060	2.88	0.9		107.17
11	6,295	2.50	0.6		108.74
12	7,219	3.43	0.7		109.86
13	10,380	75.00	10.9	Upper Marker	113.00
14	13,184	0.00	0.0		115.79

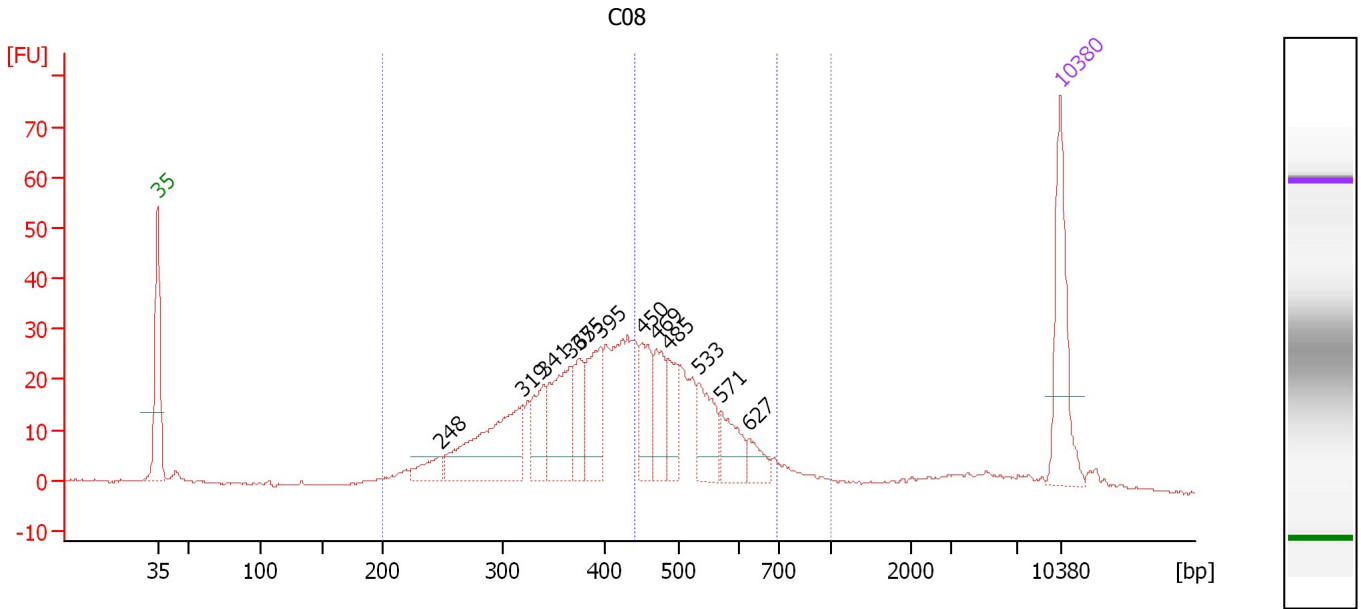
Region table for sample 5 : H07

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	435	1,300.8	4,150.5	1,105.57	86	24.1
456	697	519	411.8	989.1	334.60	27	10.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
 Modified: 8/17/2017 4:47:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : C08

Number of peaks found: 12 Corr. Area 1: 659.9
 Noise: 0.2 Corr. Area 2: 242.0

Peak table for sample 6 : C08

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	248	25.62	156.8		64.87
3	319	145.31	690.0		71.24
4	341	49.82	221.6		72.98
5	365	90.44	374.9		74.97
6	375	44.14	178.4		75.73
7	395	65.96	252.8		77.36
8	450	52.98	178.3		80.57
9	469	49.62	160.3		81.65
10	485	45.69	142.7		82.56
11	533	50.57	143.7		84.96
12	571	37.25	98.9		86.69
13	627	18.87	45.6		88.88
14	10,380	75.00	10.9	Upper Marker	113.00

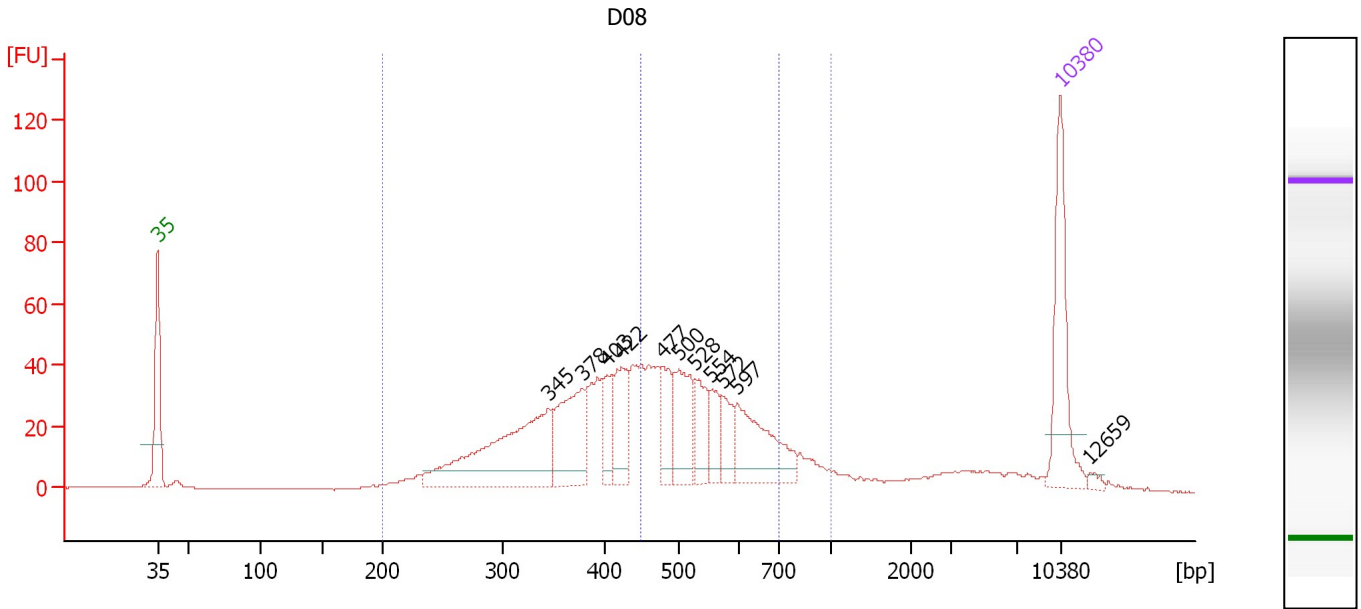
Region table for sample 6 : C08

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	433	659.9	4,116.6	1,055.57	90	28.2
440	694	521	242.0	1,081.2	365.49	33	11.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
 Modified: 8/17/2017 4:47:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : D08

Number of peaks found: 11 Corr. Area 1: 1,028.9
 Noise: 0.1 Corr. Area 2: 417.7

Peak table for sample 7 : D08

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	345	188.15	826.7		73.31
3	378	94.84	380.5		75.94
4	403	32.92	123.8		77.90
5	422	50.25	180.5		78.98
6	477	41.75	132.5		82.12
7	500	61.83	187.3		83.41
8	528	37.52	107.7		84.70
9	554	26.88	73.5		85.94
10	572	26.42	70.0		86.76
11	597	80.64	204.5		87.95
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,659	0.00	0.0		115.27

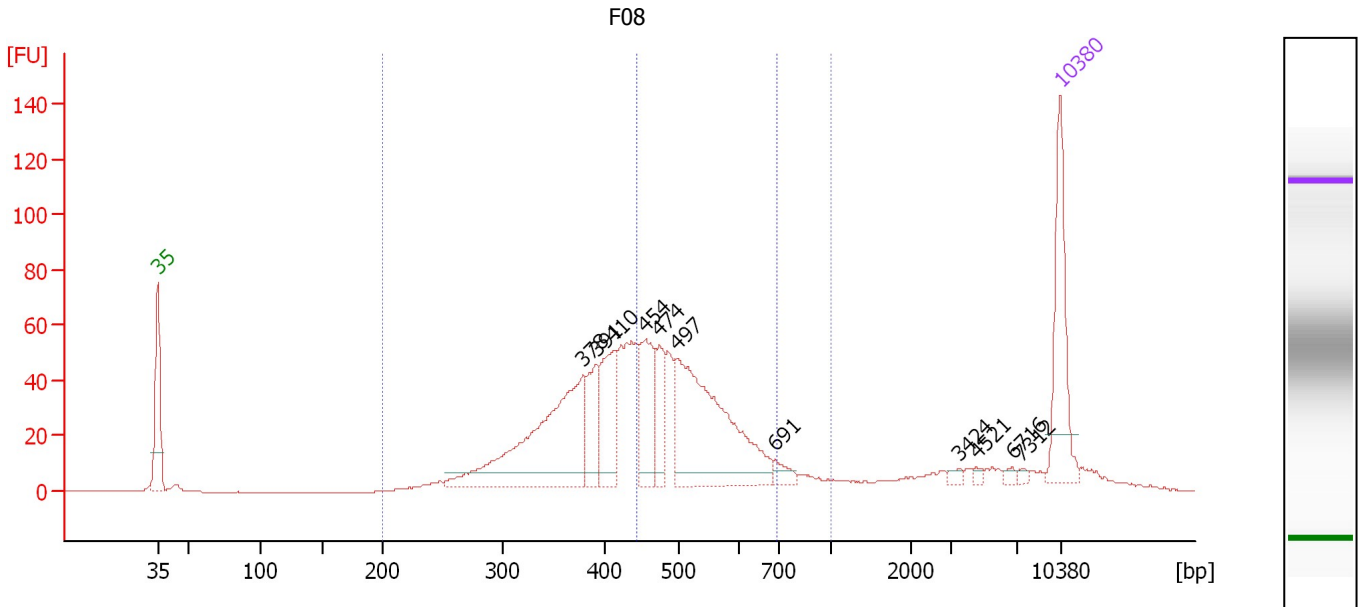
Region table for sample 7 : D08

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	466	1,028.9	3,602.5	970.93	86	30.9
447	700	540	417.7	1,069.5	374.16	35	12.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
 Modified: 8/17/2017 4:47:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : F08

Number of peaks found: 11 Corr. Area 1: 1,074.4
 Noise: 0.1 Corr. Area 2: 467.4

Peak table for sample 8 : F08

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	378	227.51	910.8		76.01
3	391	52.47	203.5		76.99
4	410	74.45	275.4		78.28
5	454	75.44	251.6		80.82
6	474	42.81	137.0		81.91
7	497	225.57	687.3		83.25
8	691	12.20	26.7		90.86
9	3,424	4.00	1.8		105.08
10	4,521	2.94	1.0		106.48
11	6,716	3.26	0.7		109.27
12	7,312	3.15	0.7		109.95
13	10,380	75.00	10.9	Upper Marker	113.00

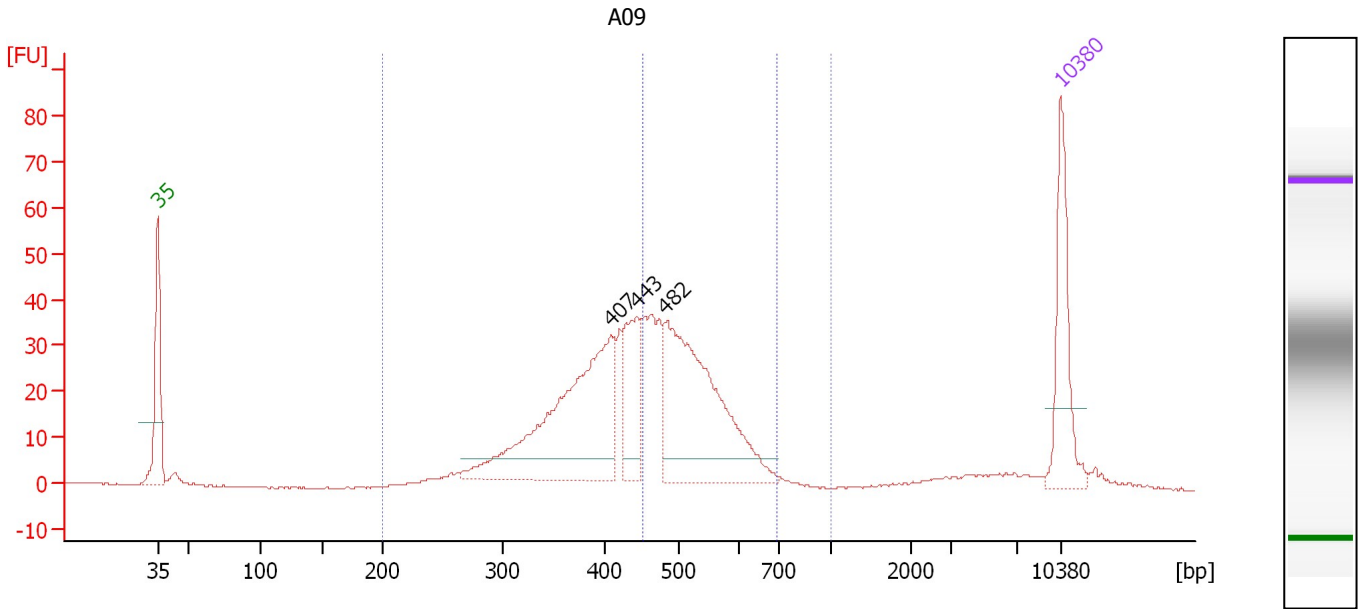
Region table for sample 8 : F08

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	459	1,074.4	3,579.6	988.38	85	26.4
444	694	524	467.4	1,214.3	413.21	37	11.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
 Modified: 8/17/2017 4:47:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : A09

Number of peaks found: 3 Corr. Area 1: 655.3
 Noise: 0.2 Corr. Area 2: 287.9

Peak table for sample 9 : A09

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	407	284.74	1,060.1		78.13
3	443	82.37	281.9		80.16
4	482	265.45	834.0		82.40
5	10,380	75.00	10.9	Upper Marker	113.00

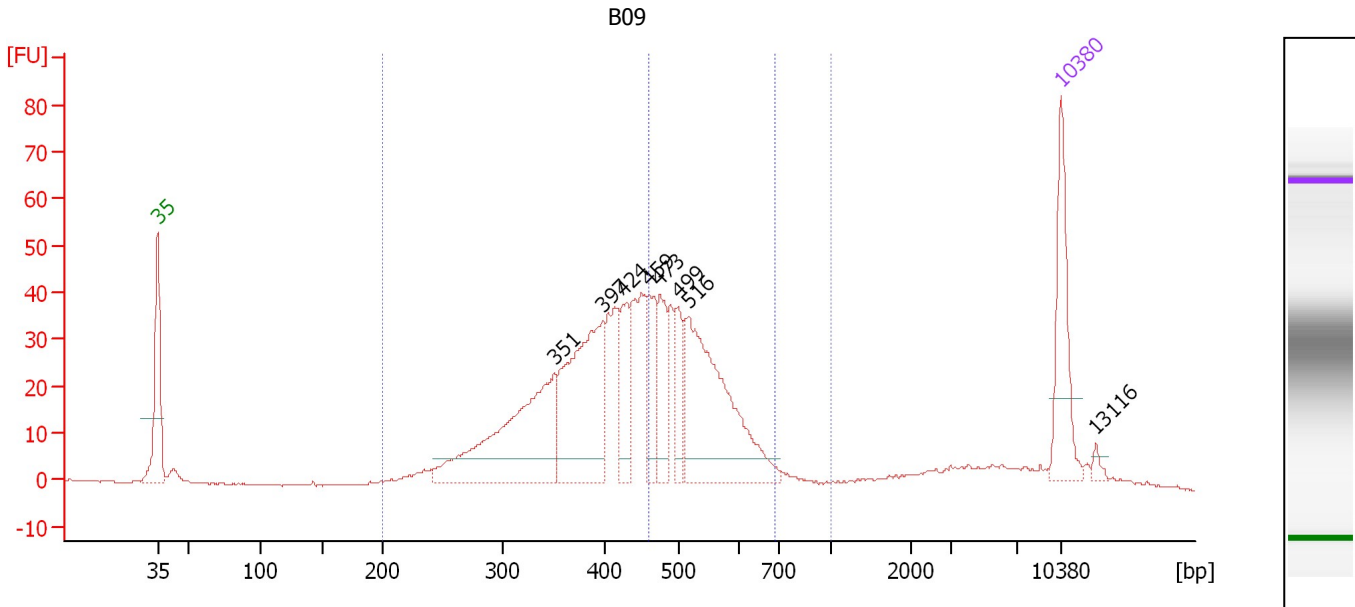
Region table for sample 9 : A09

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	450	655.3	3,235.2	894.89	89	22.2
450	694	522	287.9	1,112.4	378.14	39	10.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
 Modified: 8/17/2017 4:47:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : B09

Number of peaks found: 8 Corr. Area 1: 802.0
 Noise: 0.2 Corr. Area 2: 296.6

Peak table for sample 10 : B09

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	351	239.35	1,033.9		73.79
3	397	206.24	786.9		77.50
4	424	61.09	218.5		79.07
5	459	58.42	193.0		81.06
6	473	60.22	192.7		81.90
7	499	45.13	136.9		83.37
8	516	238.11	699.1		84.15
9	10,380	75.00	10.9	Upper Marker	113.00
10	13,116	0.00	0.0		115.72

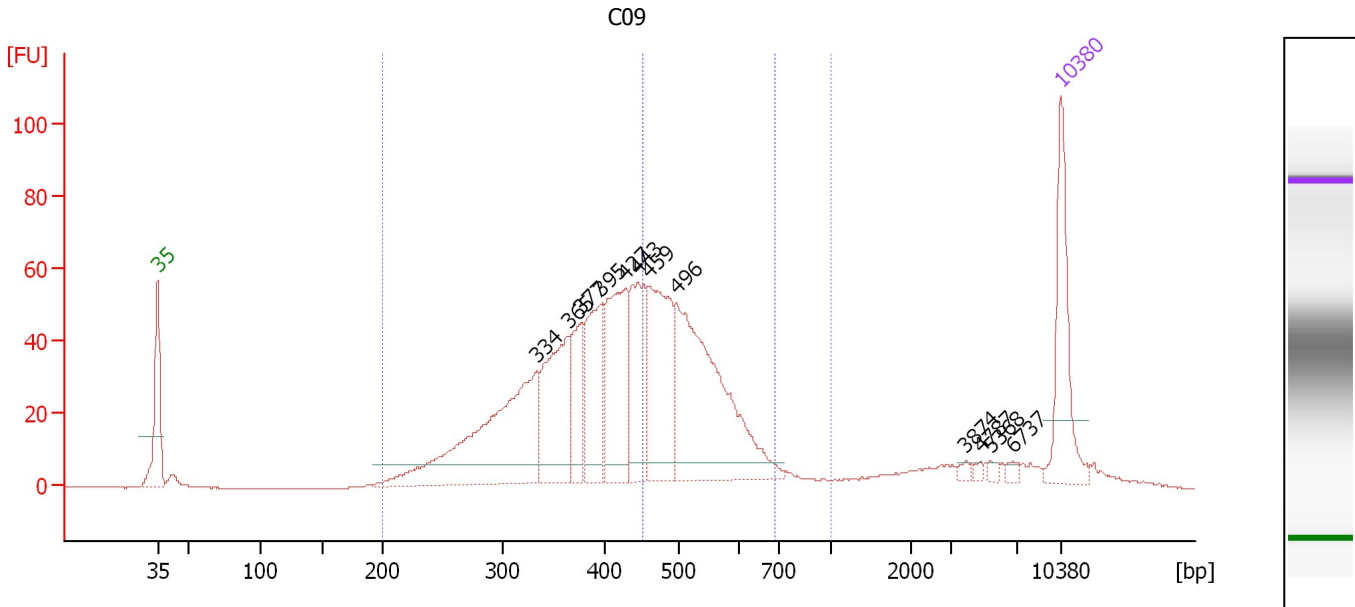
Region table for sample 10 : B09

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	443	802.0	4,686.9	1,256.16	88	24.5
459	693	530	296.6	1,278.5	441.77	33	10.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
 Modified: 8/17/2017 4:47:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : C09

Number of peaks found: 12 Corr. Area 1: 1,193.2
 Noise: 0.2 Corr. Area 2: 433.2

Peak table for sample 11 : C09

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	334	254.56	1,155.4		72.43
3	365	126.41	525.1		74.91
4	377	61.62	247.9		75.86
5	395	96.60	370.5		77.34
6	427	131.96	468.7		79.24
7	443	102.09	348.9		80.19
8	459	139.74	461.1		81.09
9	496	256.08	781.5		83.20
10	3,874	3.53	1.4		105.66
11	4,787	2.96	0.9		106.82
12	5,368	3.79	1.1		107.56
13	6,737	3.98	0.9		109.30
14	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : C09

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	434	1,193.2	5,085.4	1,321.24	88	26.3
450	691	523	433.2	1,332.5	453.97	32	10.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-17\2017-08-17_008.xad

Created: 8/17/2017 4:03:29 PM
Modified: 8/17/2017 4:47:13 PM

Gel Image

