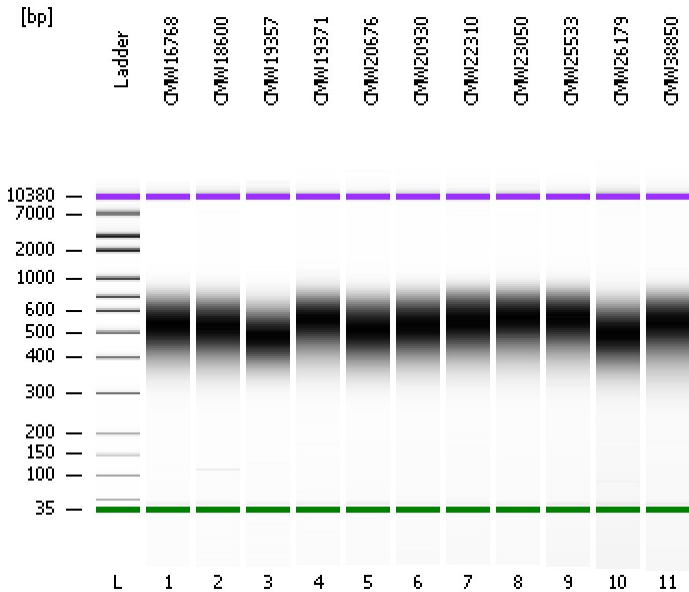


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
Modified: 5/18/2014 4:34:17 PM

Electrophoresis File Run Summary



Instrument Information:

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

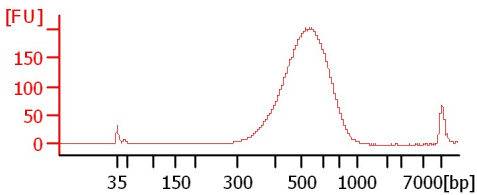
Assay Information:

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

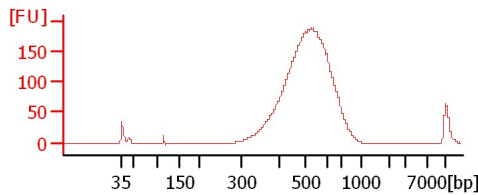
Chip Information:

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

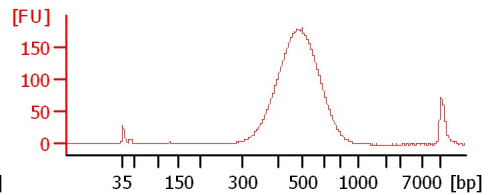
CMW16768



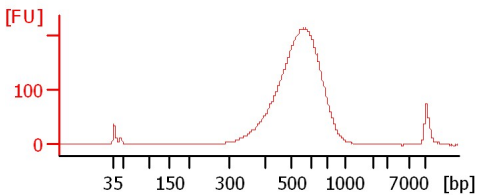
CMW18600



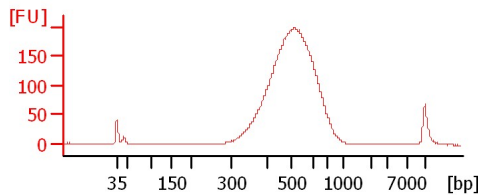
CMW19357



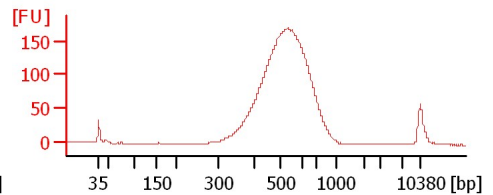
CMW19371



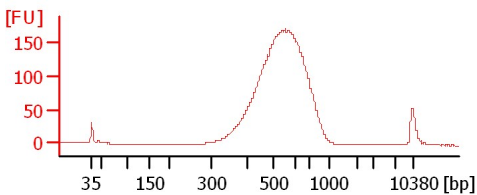
CMW20676



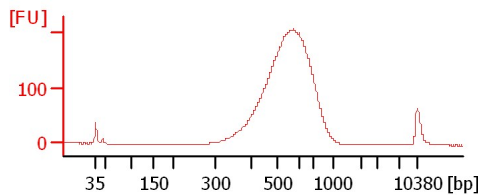
CMW20930



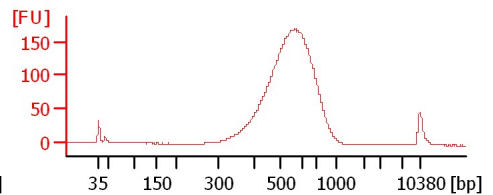
CMW22310



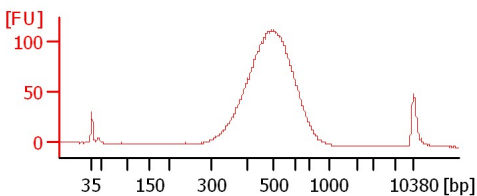
CMW23050



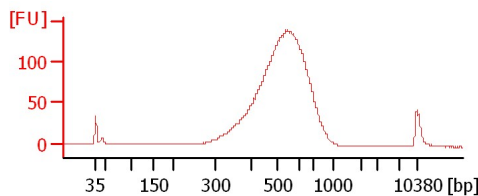
CMW25533



CMW26179



CMW38850



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
 Modified: 5/18/2014 4:34:17 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
CMW16768		<input type="checkbox"/>	✓			
CMW18600		<input type="checkbox"/>	✓			
CMW19357		<input type="checkbox"/>	✓			
CMW19371		<input type="checkbox"/>	✓			
CMW20676		<input type="checkbox"/>	✓			
CMW20930		<input type="checkbox"/>	✓			
CMW22310		<input type="checkbox"/>	✓			
CMW23050		<input type="checkbox"/>	✓			
CMW25533		<input type="checkbox"/>	✓			
CMW26179		<input type="checkbox"/>	✓			
CMW38850		<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\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
Modified: 5/18/2014 4:34:17 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

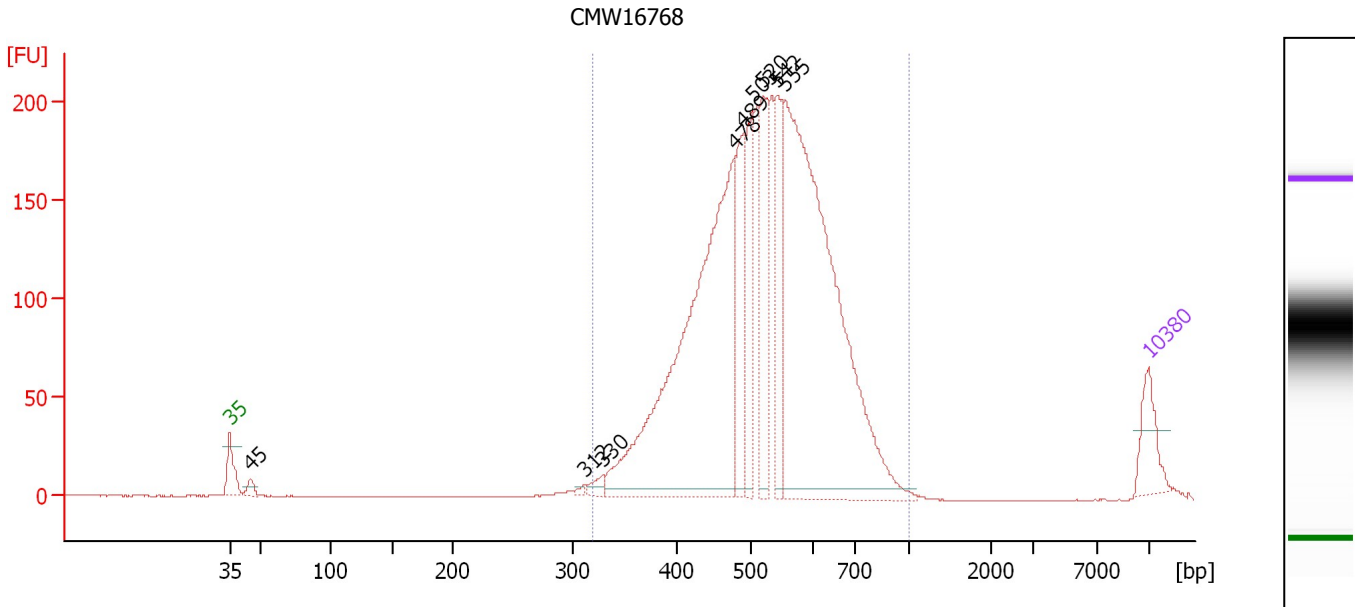
Ladder

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\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
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Electropherogram Summary



Overall Results for sample 1 : CMW16768

Number of peaks found: 9 Corr. Area 1: 2,954.3
 Noise: 0.2

Peak table for sample 1 : CMW16768

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	25.38	849.4	
3	312	7.54	36.6	
4	330	24.07	110.7	
5	478	1,300.61	4,125.2	
6	489	230.37	713.5	
7	503	226.71	683.5	
8	520	247.73	721.4	
9	542	200.51	560.1	
10	555	1,405.88	3,837.5	
11	10,380	75.00	10.9	Upper Marker

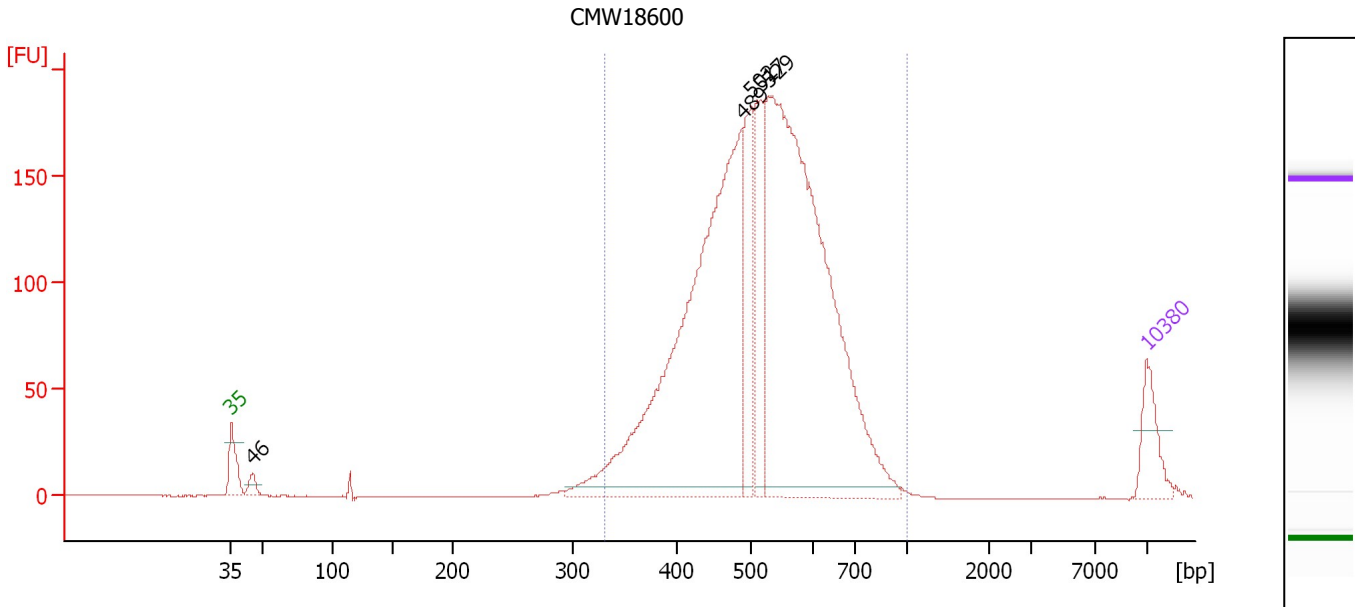
Region table for sample 1 : CMW16768

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
320	1,000	528	11,676.8	3,892.07	2,954.3	99	18.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
 Modified: 5/18/2014 4:34:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : CMW18600

Number of peaks found: 5 Corr. Area 1: 2,734.8
 Noise: 0.2

Peak table for sample 2 : CMW18600

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	31.34	1,042.0	
3	489	1,444.89	4,475.7	
4	502	253.42	765.4	
5	517	219.34	642.8	
6	529	1,603.38	4,593.2	
7	10,380	75.00	10.9	Upper Marker

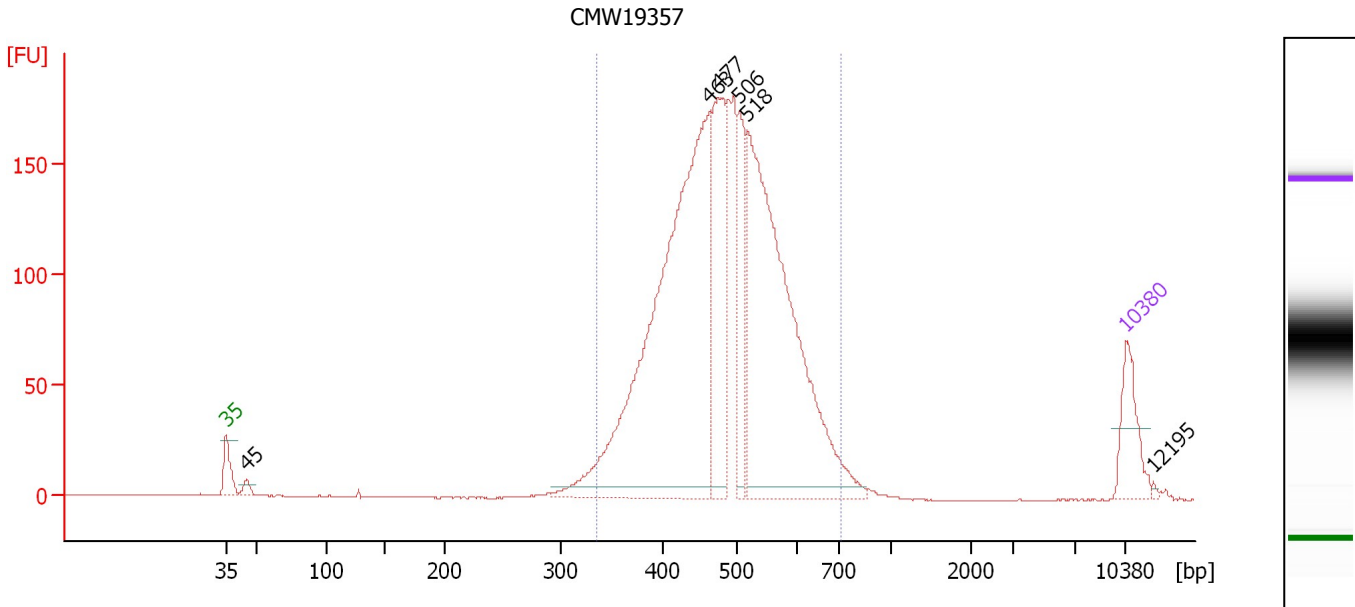
Region table for sample 2 : CMW18600

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
331	1,000	522	10,500.7	3,461.43	2,734.7	98	18.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
 Modified: 5/18/2014 4:34:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : CMW19357

Number of peaks found: 6 Corr. Area 1: 2,485.5
 Noise: 0.2

Peak table for sample 3 : CMW19357

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	18.58	619.1	
3	463	1,239.79	4,058.7	
4	477	294.58	936.1	
5	506	172.36	516.6	
6	518	916.95	2,683.8	
7	10,380	75.00	10.9	Upper Marker
8	12,195	0.00	0.0	

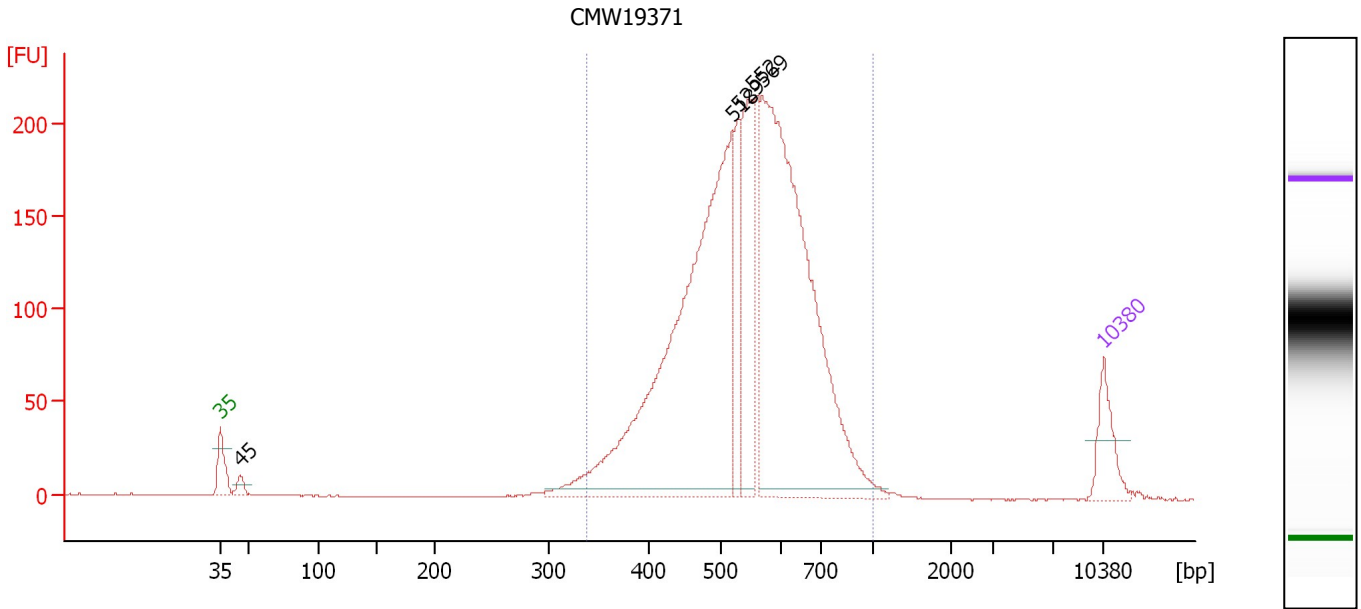
Region table for sample 3 : CMW19357

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
335	712	486	8,957.1	2,783.92	2,485.5	96	15.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
 Modified: 5/18/2014 4:34:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : CMW19371

Number of peaks found: 5 Corr. Area 1: 2,961.7
 Noise: 0.2

Peak table for sample 4 : CMW19371

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	28.94	971.6	
3	518	1,410.16	4,120.8	
4	529	154.32	441.9	
5	552	311.62	855.4	
6	569	1,283.70	3,419.8	
7	10,380	75.00	10.9	Upper Marker

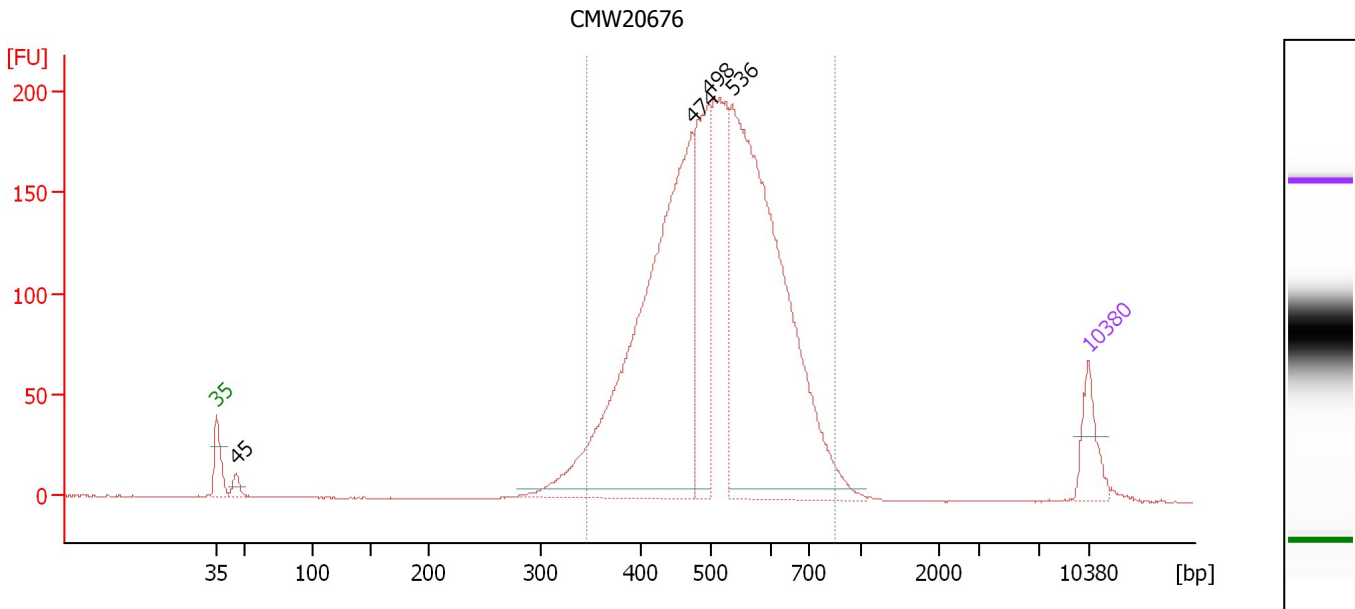
Region table for sample 4 : CMW19371

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
338	1,000	549	9,563.4	3,306.93	2,961.7	97	19.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
 Modified: 5/18/2014 4:34:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : CMW20676

Number of peaks found: 4 Corr. Area 1: 2,945.3
 Noise: 0.2

Peak table for sample 5 : CMW20676

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	33.19	1,111.1	
3	474	1,453.70	4,645.6	
4	498	416.14	1,267.1	
5	536	1,452.88	4,110.0	
6	10,380	75.00	10.9	Upper Marker

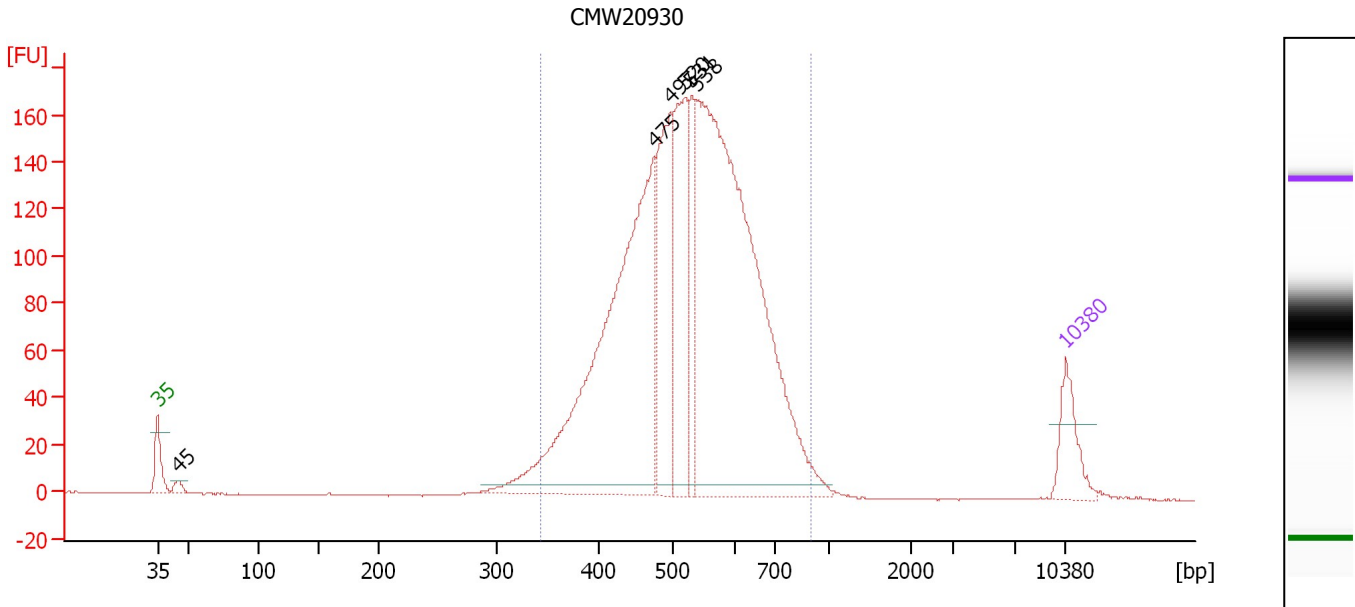
Region table for sample 5 : CMW20676

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
346	847	515	11,188.2	3,651.80	2,945.3	95	17.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
 Modified: 5/18/2014 4:34:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CMW20930

Number of peaks found: 6 Corr. Area 1: 2,492.9
 Noise: 0.1

Peak table for sample 6 : CMW20930

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	18.28	613.6	
3	475	1,092.04	3,480.5	
4	497	341.96	1,042.6	
5	520	308.18	898.0	
6	531	153.55	438.3	
7	538	1,424.50	4,010.9	
8	10,380	75.00	10.9	Upper Marker

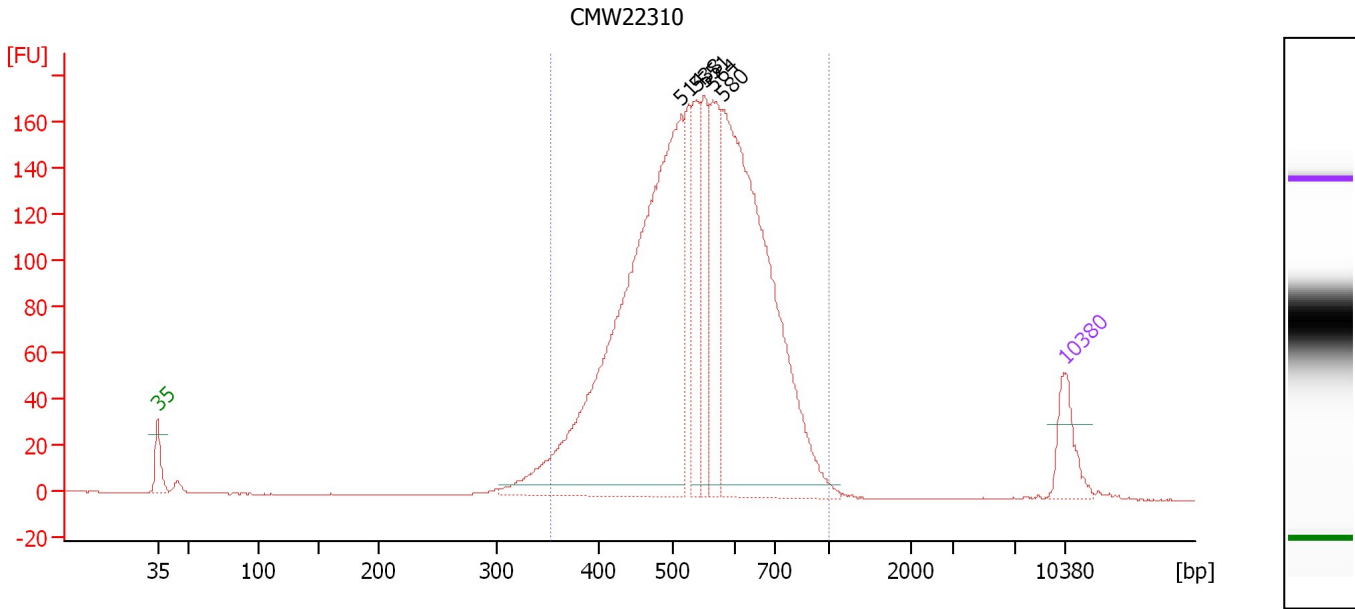
Region table for sample 6 : CMW20930

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
344	900	531	9,741.7	3,263.95	2,492.9	97	18.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
 Modified: 5/18/2014 4:34:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CMW22310

Number of peaks found: 5 Corr. Area 1: 2,545.1
 Noise: 0.2

Peak table for sample 7 : CMW22310

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	514	1,562.43	4,605.9	
3	538	190.92	537.9	
4	551	200.53	551.8	
5	564	243.18	652.8	
6	580	1,154.80	3,016.7	
7	10,380	75.00	10.9	Upper Marker

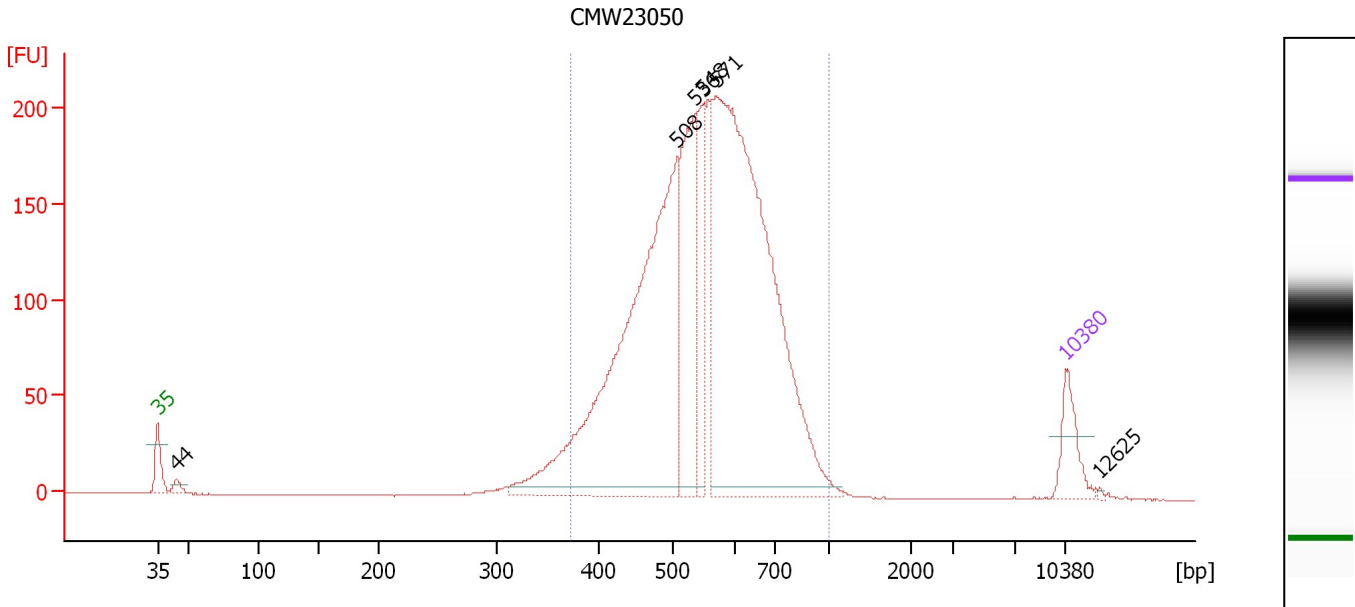
Region table for sample 7 : CMW22310

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
353	1,000	551	10,182.5	3,529.74	2,545.1	97	19.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
 Modified: 5/18/2014 4:34:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CMW23050

Number of peaks found: 6 Corr. Area 1: 2,834.1
 Noise: 0.2

Peak table for sample 8 : CMW23050

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	23.24	791.6	
3	508	1,288.53	3,839.4	
4	536	413.30	1,167.8	
5	548	184.46	509.8	
6	571	1,522.49	4,037.1	
7	10,380	75.00	10.9	Upper Marker
8	12,625	0.00	0.0	

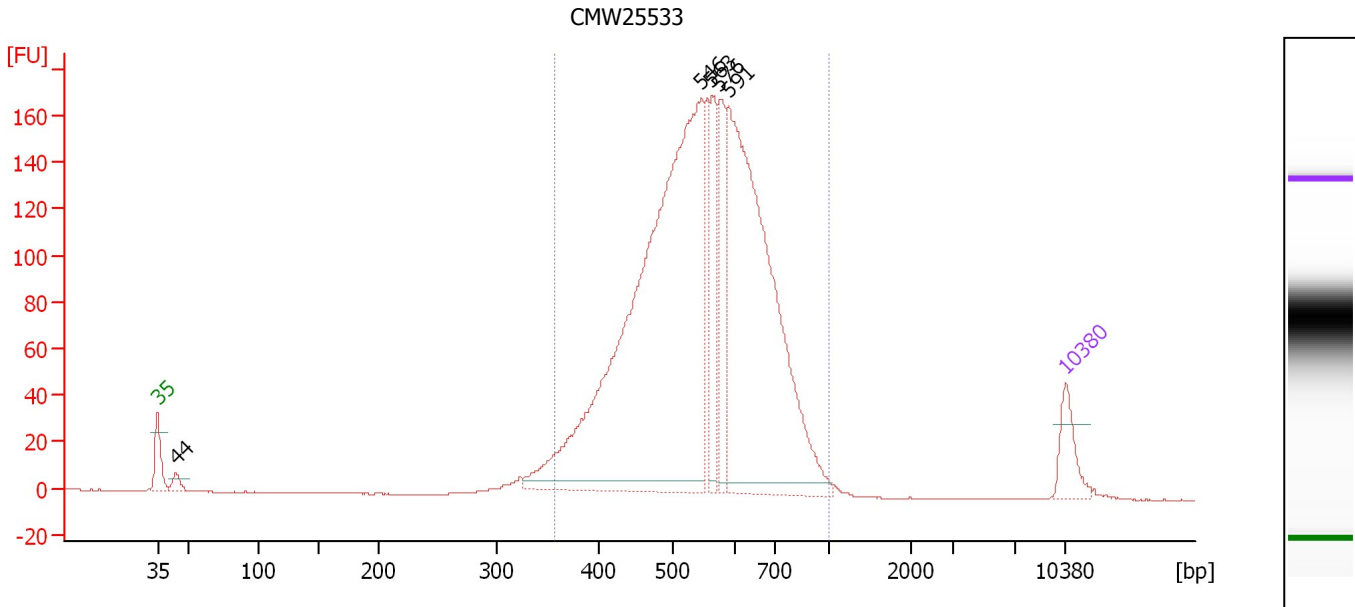
Region table for sample 8 : CMW23050

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
372	1,000	563	9,729.7	3,460.00	2,834.1	95	19.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
 Modified: 5/18/2014 4:34:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : CMW25533

Number of peaks found: 5 Corr. Area 1: 2,366.8
 Noise: 0.2

Peak table for sample 9 : CMW25533

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	35.33	1,211.4	
3	546	2,076.20	5,757.0	
4	563	228.58	615.1	
5	576	222.81	586.1	
6	591	1,289.75	3,307.5	
7	10,380	75.00	10.9	Upper Marker

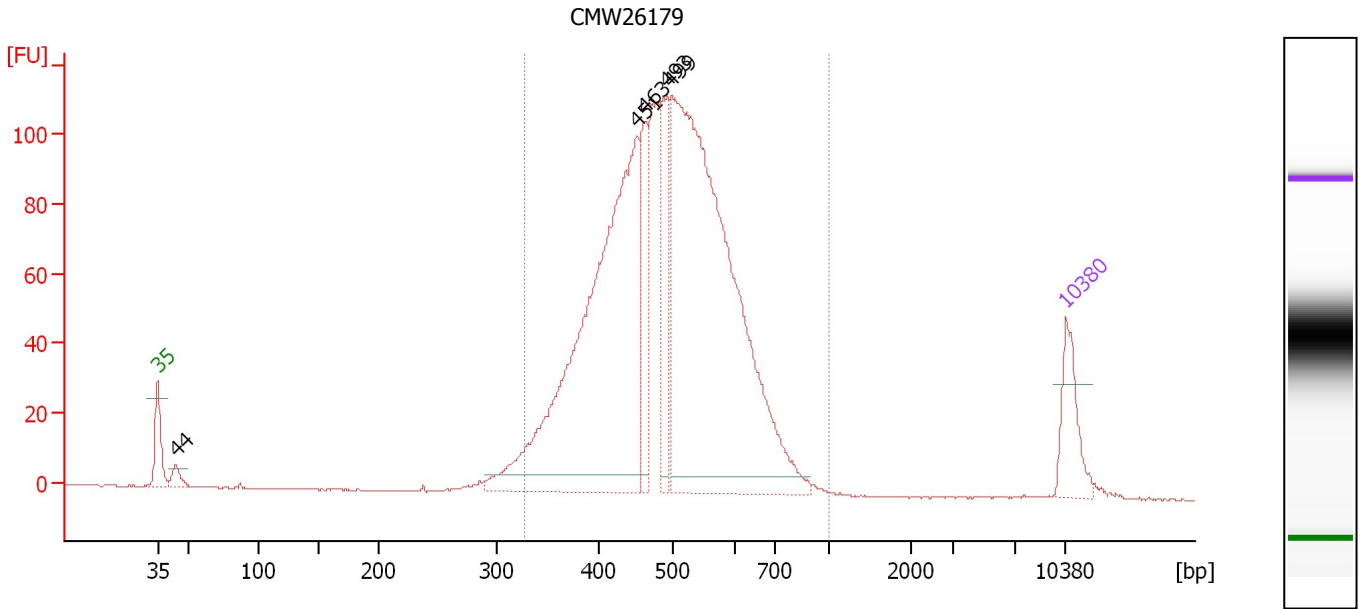
Region table for sample 9 : CMW25533

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
357	1,000	558	11,708.8	4,115.75	2,366.8	97	19.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
 Modified: 5/18/2014 4:34:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CMW26179

Number of peaks found: 5 Corr. Area 1: 1,670.9
 Noise: 0.1

Peak table for sample 10 : CMW26179

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	27.91	956.9	
3	451	1,051.10	3,530.7	
4	463	140.93	461.3	
5	493	148.20	455.7	
6	499	1,303.29	3,957.2	
7	10,380	75.00	10.9	Upper Marker

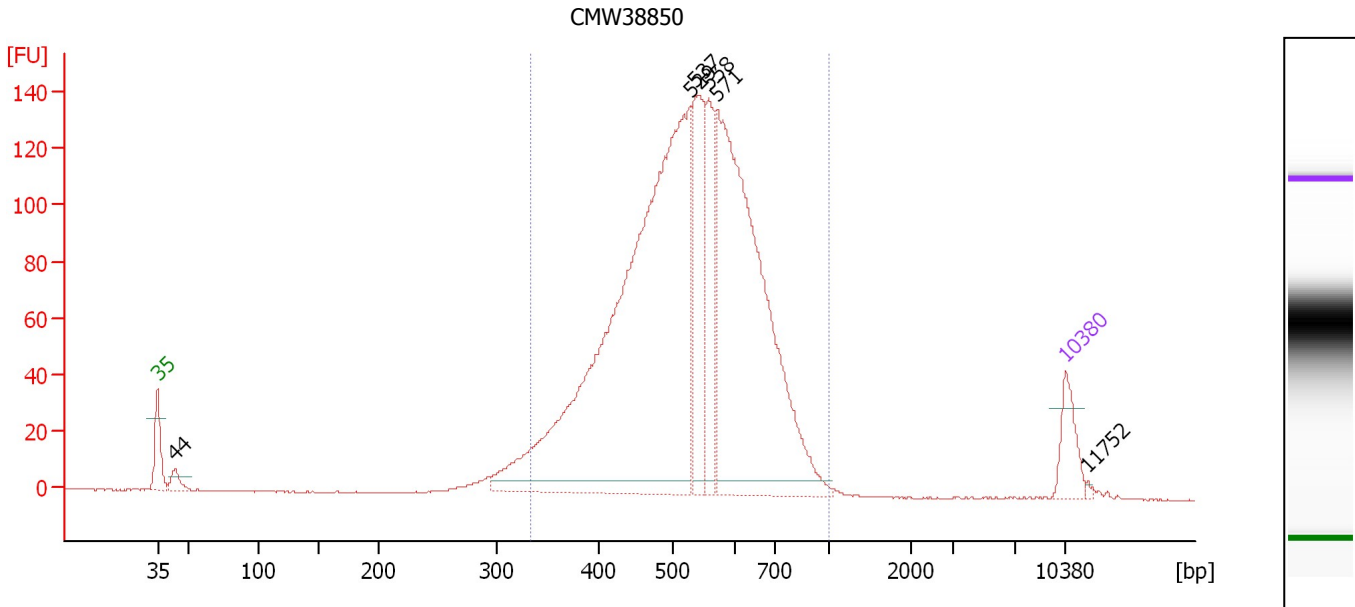
Region table for sample 10 : CMW26179

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
327	1,000	497	8,892.8	2,796.15	1,670.9	97	18.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
 Modified: 5/18/2014 4:34:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CMW38850

Number of peaks found: 6 Corr. Area 1: 2,041.9
 Noise: 0.1

Peak table for sample 11 : CMW38850

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	42.82	1,486.8	
3	529	2,113.89	6,058.9	
4	537	355.64	1,003.5	
5	558	226.76	615.4	
6	571	1,274.57	3,380.5	
7	10,380	75.00	10.9	Upper Marker
8	11,752	0.00	0.0	

Region table for sample 11 : CMW38850

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
333	1,000	535	12,170.0	4,082.17	2,041.9	96	19.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-18\2014-05-18_002.xad

Created: 5/18/2014 3:51:48 PM
Modified: 5/18/2014 4:34:17 PM

Gel Image

