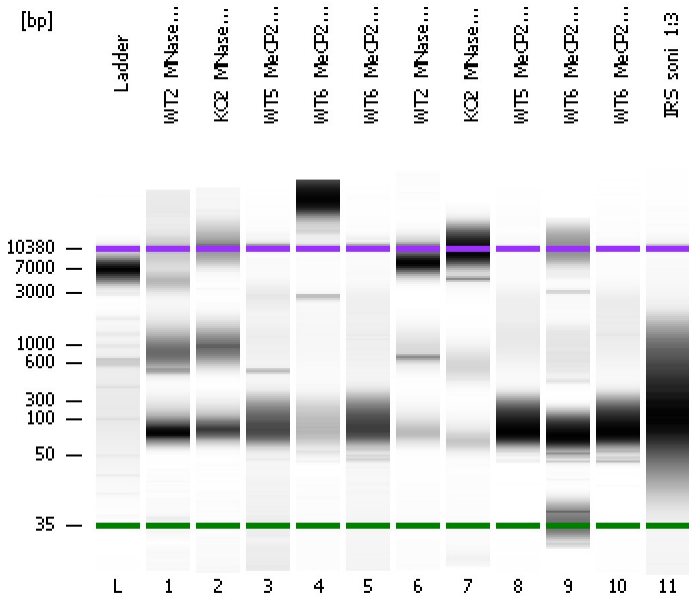


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
Modified: 8/5/2013 12:58:07 PM

Electrophoresis File Run Summary



Instrument Information:

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

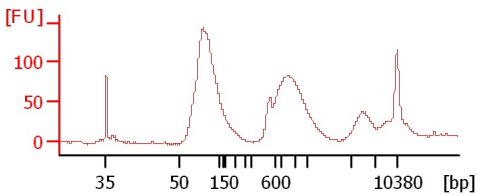
Assay Information:

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

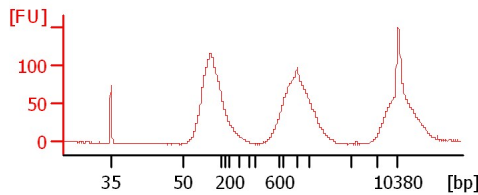
Chip Information:

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

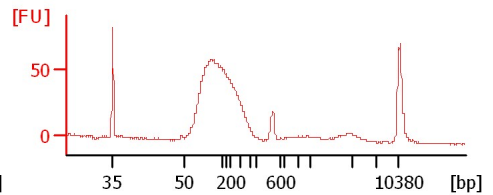
WT2_MNase_Lib:1/10



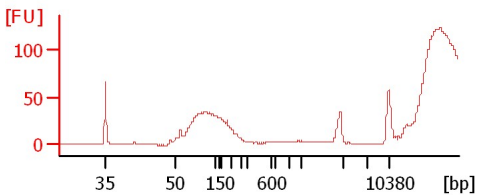
KO2_MNase_Lib:1/10



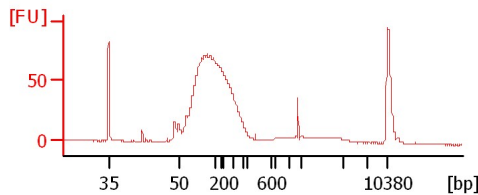
WT5_MeCP2_Lib2:1/10



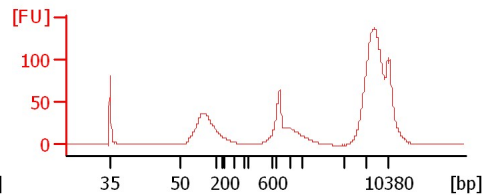
WT6_MeCP2_Lib1:1/10



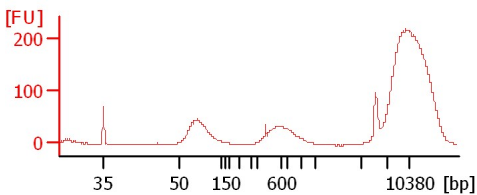
WT6_MeCP2_Lib2:1/10



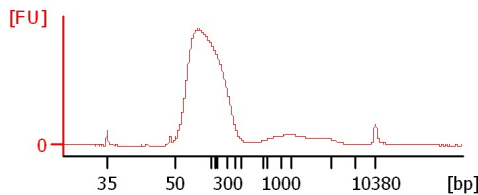
WT2_MNase_Lib:1/20



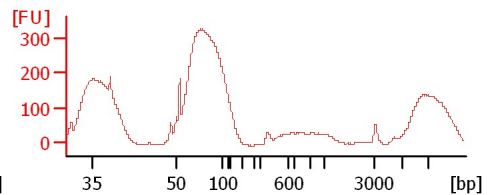
KO2_MNase_Lib:1/20



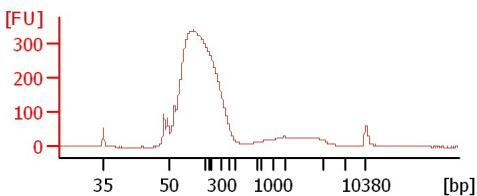
WT5_MeCP2_Lib2



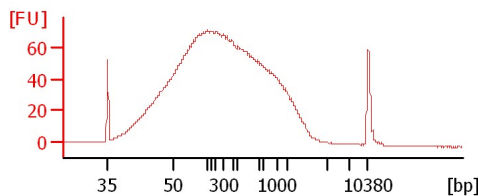
WT6_MeCP2_Lib1



WT6_MeCP2_Lib2



IRS_soni_1:3



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
WT2_MNase_Lib:1/10		<input type="checkbox"/>	✓			
KO2_MNase_Lib:1/10		<input type="checkbox"/>	✓			
WT5_MeCP2_Lib2:1/10		<input type="checkbox"/>	✓			
WT6_MeCP2_Lib1:1/10		<input type="checkbox"/>	✓			
WT6_MeCP2_Lib2:1/10		<input type="checkbox"/>	✓			
WT2_MNase_Lib:1/20		<input type="checkbox"/>	✓			
KO2_MNase_Lib:1/20		<input type="checkbox"/>	✓			
WT5_MeCP2_Lib2		<input type="checkbox"/>	✓			
WT6_MeCP2_Lib1		<input type="checkbox"/>	✓			
WT6_MeCP2_Lib2		<input type="checkbox"/>	✓			
IRS_soni_1:3		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>				

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
Modified: 8/5/2013 12:58:07 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

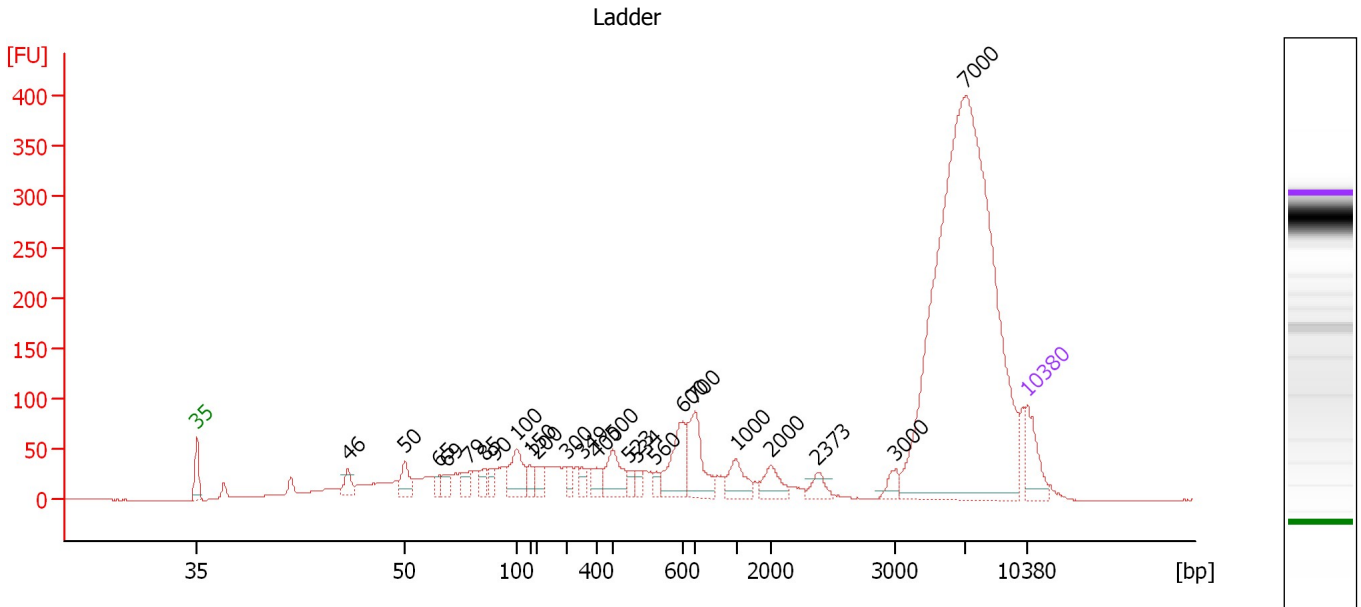
Ladder

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:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

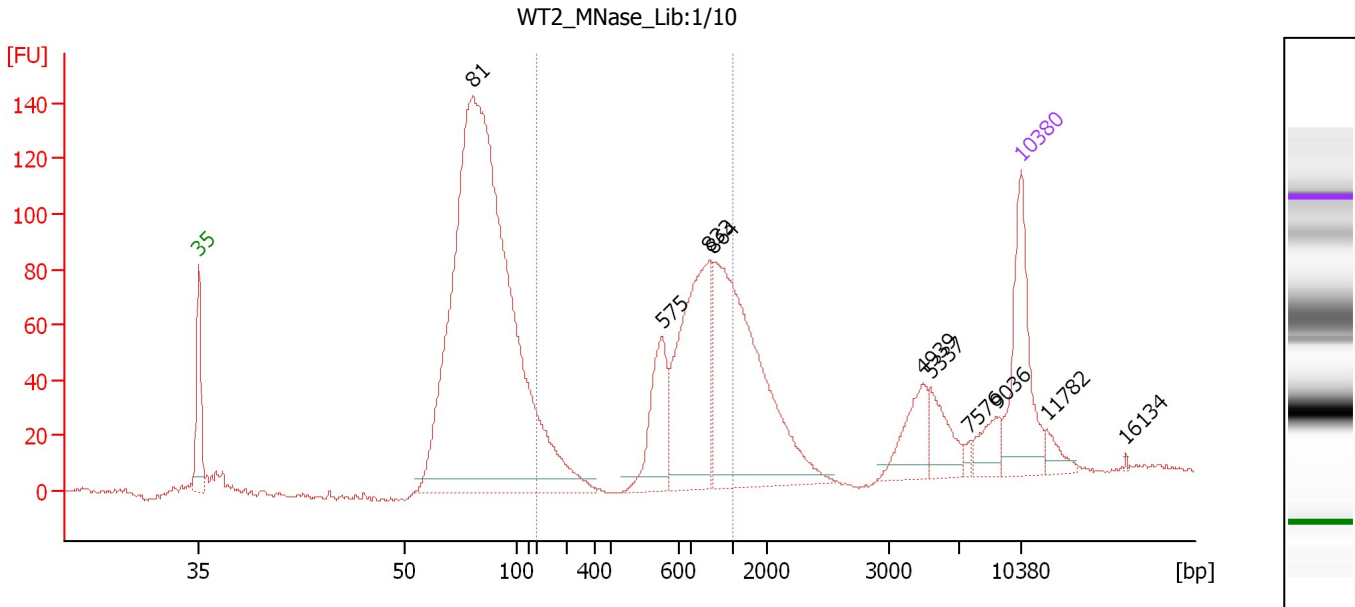
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	0.00	0.0	
3	50	150.00	4,545.5	Ladder Peak
4	65	0.00	0.0	
5	69	0.00	0.0	
6	79	0.00	0.0	
7	85	0.00	0.0	
8	90	0.00	0.0	
9	100	150.00	2,272.7	Ladder Peak
10	150	150.00	1,515.2	Ladder Peak
11	200	150.00	1,136.4	Ladder Peak
12	300	150.00	757.6	Ladder Peak
13	349	0.00	0.0	
14	400	150.00	568.2	Ladder Peak
15	500	150.00	454.5	Ladder Peak
16	523	0.00	0.0	
17	534	0.00	0.0	
18	560	0.00	0.0	
19	600	150.00	378.8	Ladder Peak
20	700	150.00	324.7	Ladder Peak
21	1,000	150.00	227.3	Ladder Peak
22	2,000	150.00	113.6	Ladder Peak
23	2,373	0.00	0.0	
24	3,000	150.00	75.8	Ladder Peak
25	7,000	150.00	32.5	Ladder Peak
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : WT2_MNase_Lib:1/10

Number of peaks found: 10 Corr. Area 1: 594.5
 Noise: 0.4

Peak table for sample 1 : WT2_MNase_Lib:1/10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	1,274.24	23,943.4	
3	575	72.14	190.0	
4	833	176.04	320.2	
5	864	265.09	464.9	
6	4,939	38.96	12.0	
7	5,337	31.40	8.9	
8	7,576	4.89	1.0	
9	9,036	19.95	3.3	
10	10,380	75.00	10.9	Upper Marker
11	11,782	0.00	0.0	
12	16,134	0.00	0.0	

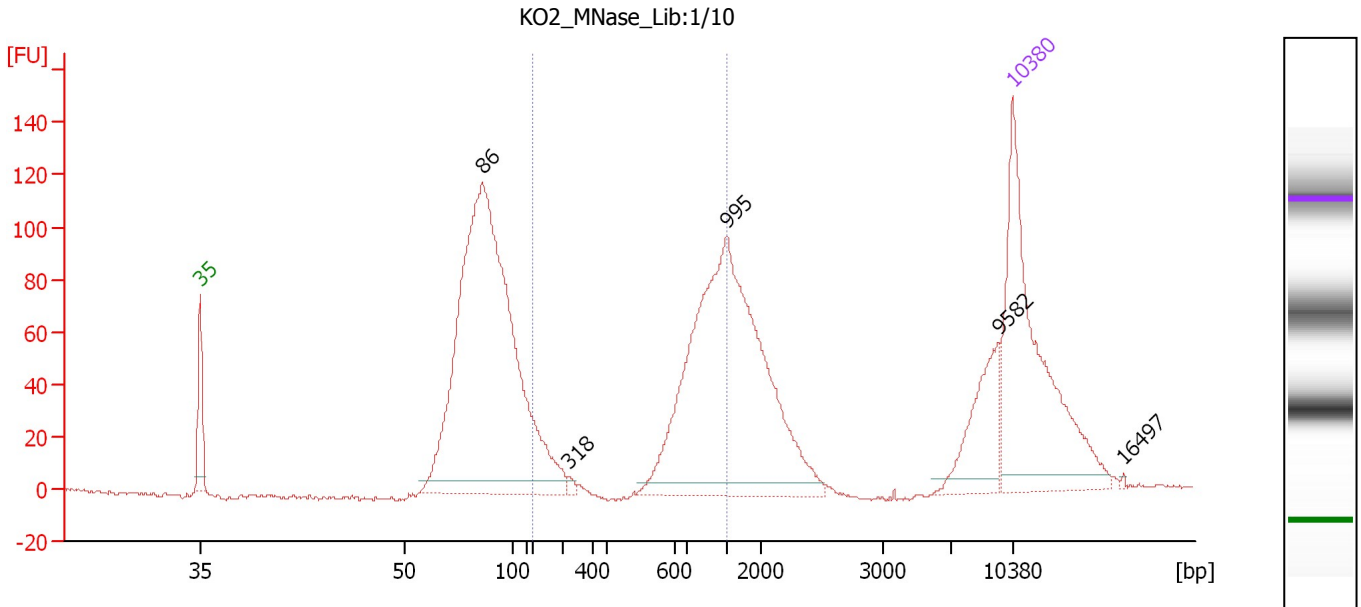
Region table for sample 1 : WT2_MNase_Lib:1/10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	703	992.2	374.60	594.5	27	28.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : KO2_MNase_Lib:1/10

Number of peaks found: 5 Corr. Area 1: 462.9
 Noise: 0.8

Peak table for sample 2 : KO2_MNase_Lib:1/10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	86	365.72	6,462.0	
3	318	1.70	8.1	
4	995	175.11	266.7	
5	9,582	25.17	4.0	
6	10,380	75.00	10.9	Upper Marker
7	16,497	0.00	0.0	

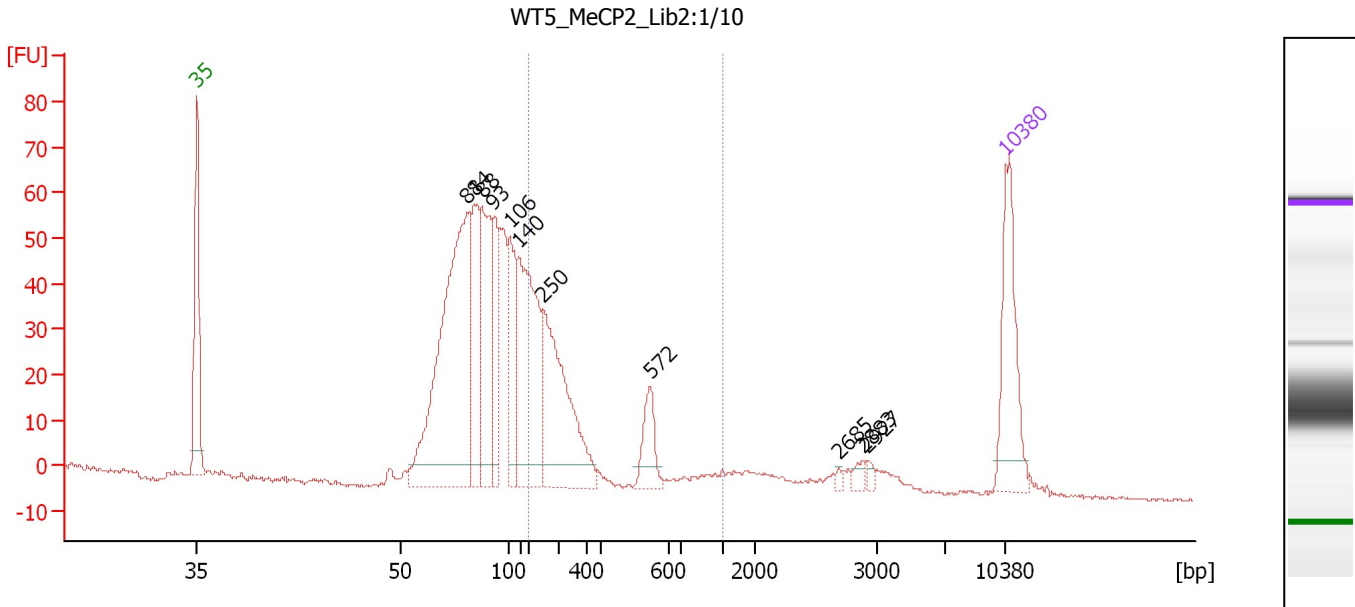
Region table for sample 2 : KO2_MNase_Lib:1/10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	740	293.6	109.96	462.9	25	29.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : WT5 MeCP2 Lib2:1/10

Number of peaks found: 11 Corr. Area 1: 238.0
 Noise: 0.3

Peak table for sample 3 : WT5 MeCP2 Lib2:1/10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	455.52	8,507.8	
3	84	134.83	2,430.3	
4	88	159.29	2,751.2	
5	93	90.34	1,470.2	
6	106	103.59	1,480.6	
7	140	234.17	2,530.0	
8	250	189.12	1,145.7	
9	572	35.83	95.0	
10	2,685	2.38	1.3	
11	2,883	5.83	3.1	
12	2,927	4.25	2.2	
13	10,380	75.00	10.9	Upper Marker

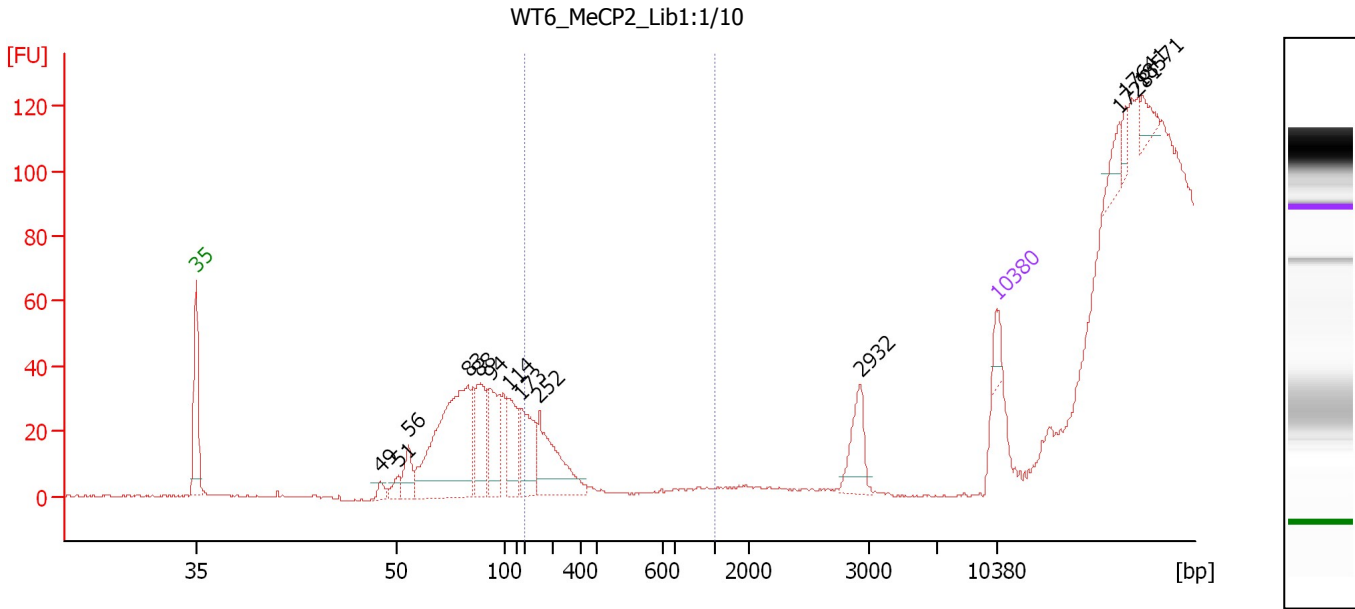
Region table for sample 3 : WT5 MeCP2 Lib2:1/10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	343	1,639.2	313.65	238.0	25	45.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : WT6 MeCP2 Lib1:1/10

Number of peaks found: 13 Corr. Area 1: 0.0
 Noise: 0.3

Peak table for sample 4 : WT6 MeCP2 Lib1:1/10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	68.70	2,135.3	
3	51	98.25	2,940.2	
4	56	216.06	5,890.3	
5	83	1,826.01	33,323.2	
6	88	558.83	9,624.9	
7	94	543.48	8,792.1	
8	114	426.24	5,677.0	
9	173	481.72	4,214.3	
10	252	590.69	3,545.5	
11	2,932	222.28	114.9	
12	10,380	75.00	10.9	Upper Marker
13	17,281	0.00	0.0	
14	17,641	0.00	0.0	
15	18,571	0.00	0.0	

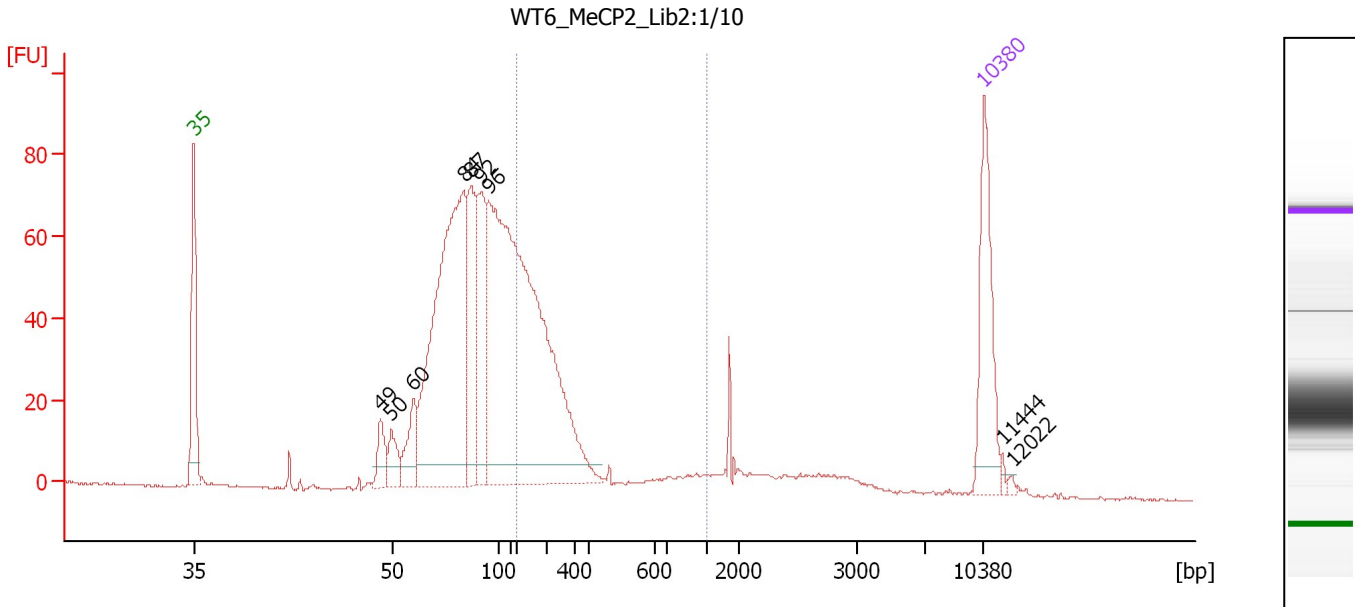
Region table for sample 4 : WT6 MeCP2 Lib1:1/10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	0	0.0	0.00	0.0	0	0.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WT6_MeCP2_Lib2:1/10

Number of peaks found: 9 Corr. Area 1: 328.9
 Noise: 0.2

Peak table for sample 5 : WT6_MeCP2_Lib2:1/10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	33.20	1,023.7	
3	50	30.79	934.1	
4	60	49.48	1,251.2	
5	84	511.88	9,263.2	
6	87	131.31	2,280.6	
7	92	135.39	2,235.8	
8	96	833.31	13,220.0	
9	10,380	75.00	10.9	Upper Marker
10	11,444	0.00	0.0	
11	12,022	0.00	0.0	

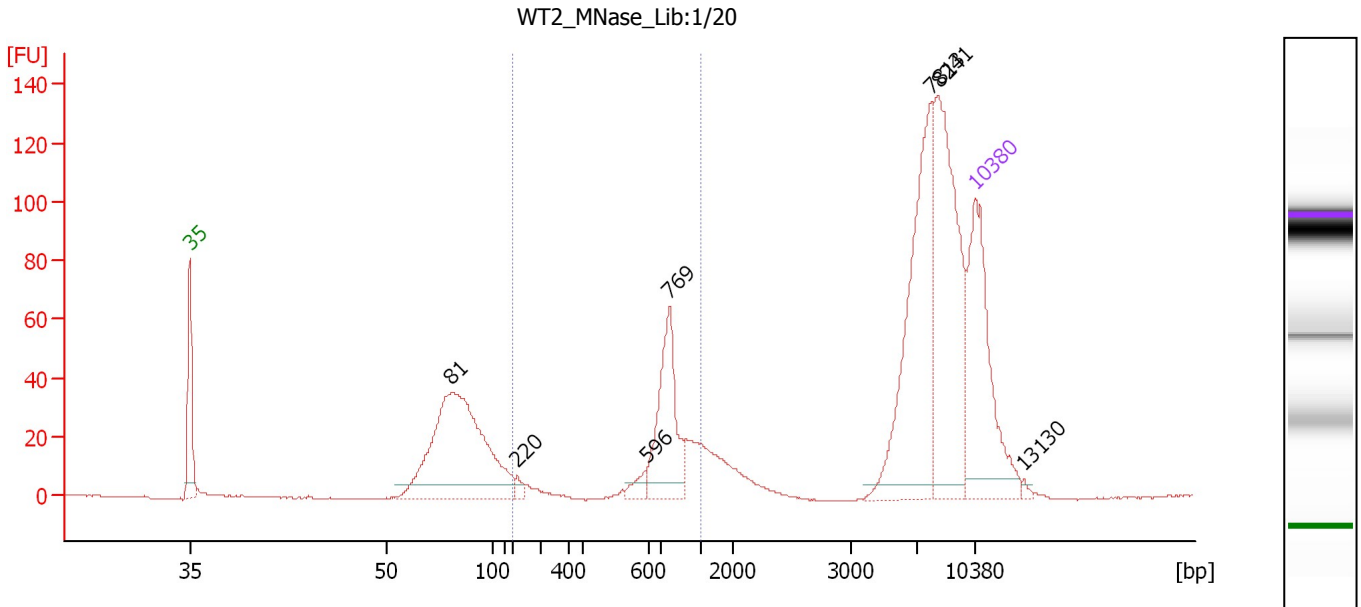
Region table for sample 5 : WT6_MeCP2_Lib2:1/10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	343	1,967.4	379.10	328.9	25	46.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : WT2_MNase_Lib:1/20

Number of peaks found: 7 Corr. Area 1: 187.5
 Noise: 0.2

Peak table for sample 6 : WT2_MNase_Lib:1/20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	228.57	4,299.3	
3	220	5.02	34.6	
4	596	6.67	17.0	
5	769	61.94	122.1	
6	7,813	112.77	21.9	
7	8,241	113.81	20.9	
8	10,380	75.00	10.9	Upper Marker
9	13,130	0.00	0.0	

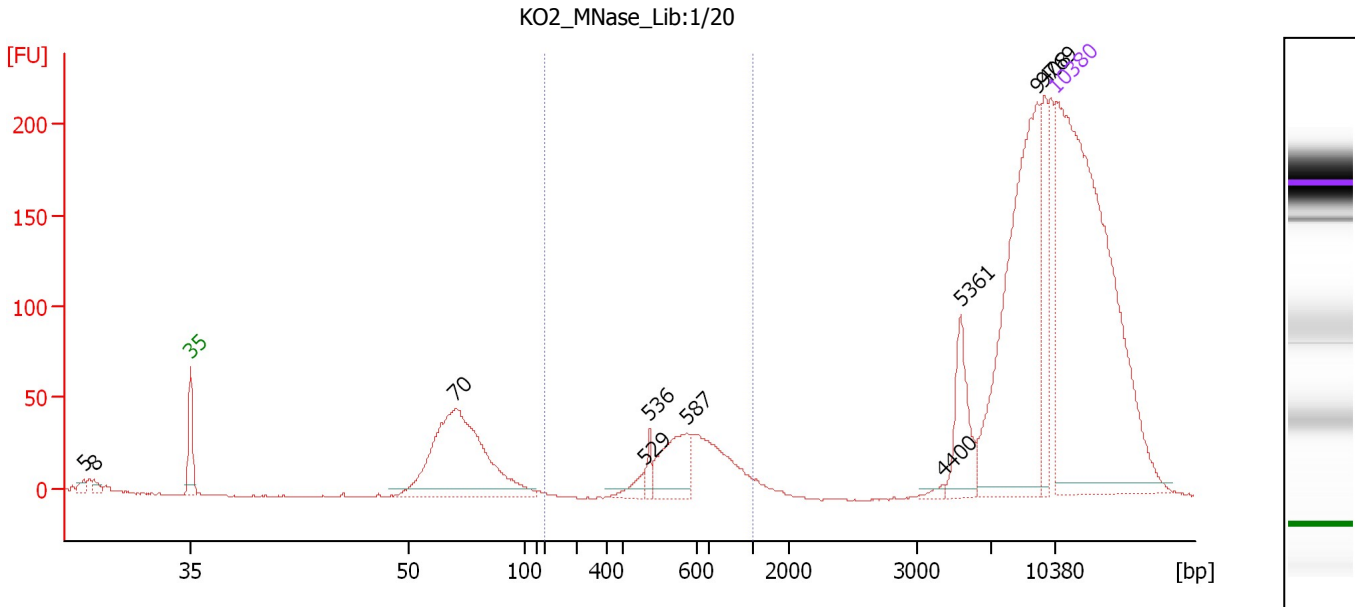
Region table for sample 6 : WT2_MNase_Lib:1/20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	730	217.9	88.54	187.5	16	23.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : KO2_MNase_Lib:1/20

Number of peaks found: 10 Corr. Area 1: 262.4
 Noise: 0.4

Peak table for sample 7 : KO2_MNase_Lib:1/20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	5	0.00	0.0	
2	8	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	70	63.54	1,367.3	
5	529	2.60	7.4	
6	536	1.98	5.6	
7	587	11.38	29.4	
8	4,400	0.78	0.3	
9	5,361	9.67	2.7	
10	9,408	47.77	7.7	
11	9,769	10.06	1.6	
12	10,380	75.00	10.9	Upper Marker

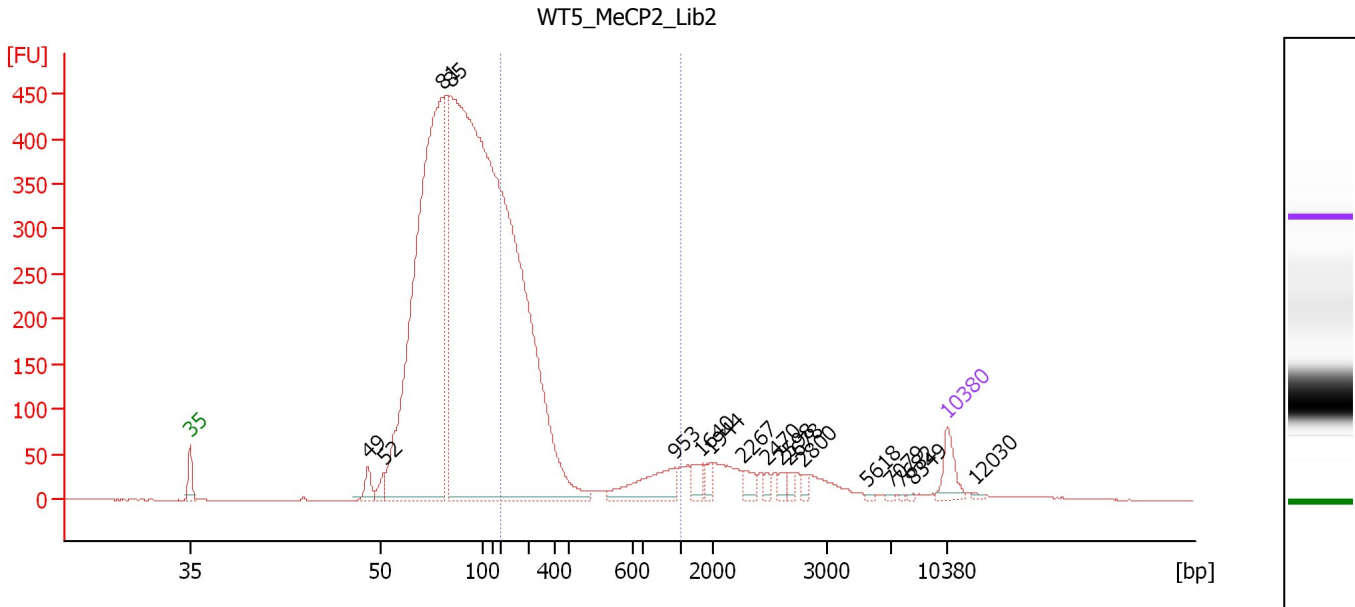
Region table for sample 7 : KO2_MNase_Lib:1/20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	652	61.7	25.70	262.4	16	18.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : WT5_MeCP2_Lib2

Number of peaks found: 17 Corr. Area 1: 1,761.9
 Noise: 0.3

Peak table for sample 8 : WT5_MeCP2_Lib2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	80.52	2,488.2	
3	52	60.99	1,781.8	
4	81	3,605.77	67,753.3	
5	85	8,078.08	144,745.5	
6	953	176.15	280.1	
7	1,640	51.74	47.8	
8	1,944	31.17	24.3	
9	2,267	38.65	25.8	
10	2,470	17.38	10.7	
11	2,598	21.40	12.5	
12	2,678	18.62	10.5	
13	2,800	17.29	9.4	
14	5,618	4.26	1.1	
15	7,079	3.98	0.9	
16	7,682	3.52	0.7	
17	8,349	4.62	0.8	
18	10,380	75.00	10.9	Upper Marker
19	12,030	0.00	0.0	

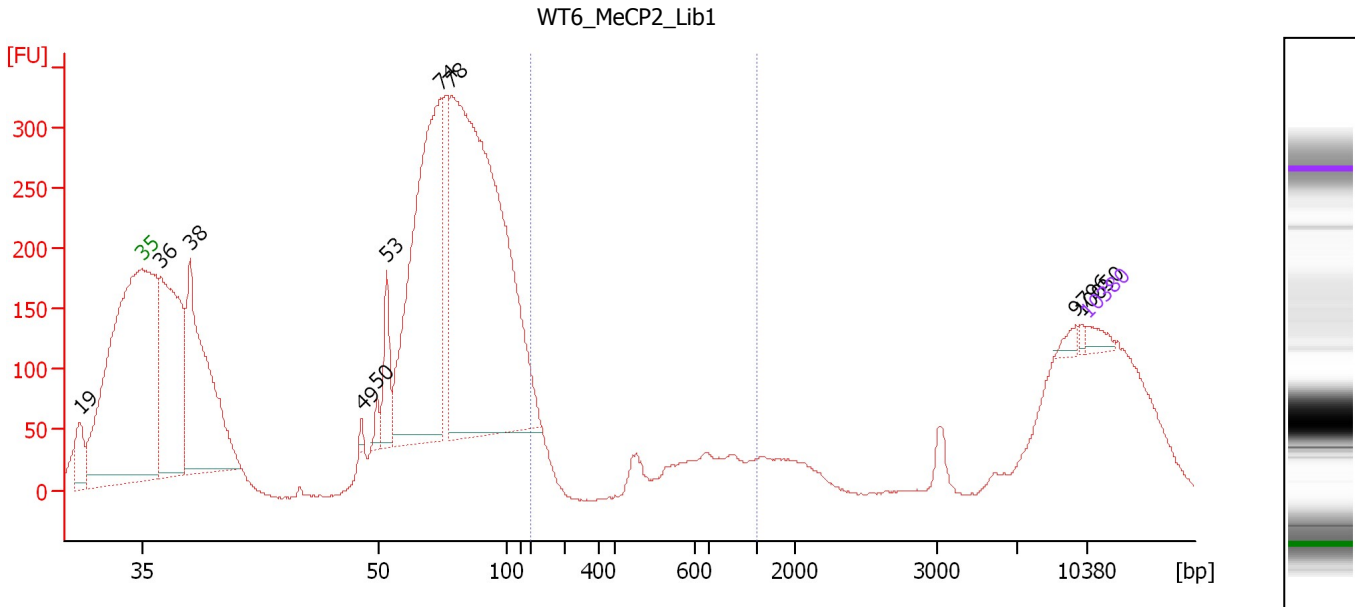
Region table for sample 8 : WT5_MeCP2_Lib2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	348	12,403.8	2,363.70	1,761.9	23	51.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : WT6_MeCP2_Lib1

Number of peaks found: 10 Corr. Area 1: 142.0
 Noise: 1.0

Peak table for sample 9 : WT6_MeCP2_Lib1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	19	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	36	3,995.59	167,483.9	
4	38	3,968.52	158,091.7	
5	49	72.70	2,253.1	
6	50	150.81	4,582.1	
7	53	609.74	17,449.0	
8	74	5,398.94	110,738.6	
9	78	9,298.82	180,021.4	
10	9,796	57.42	8.9	
11	10,050	24.95	3.8	
12	10,380	75.00	10.9	Upper Marker

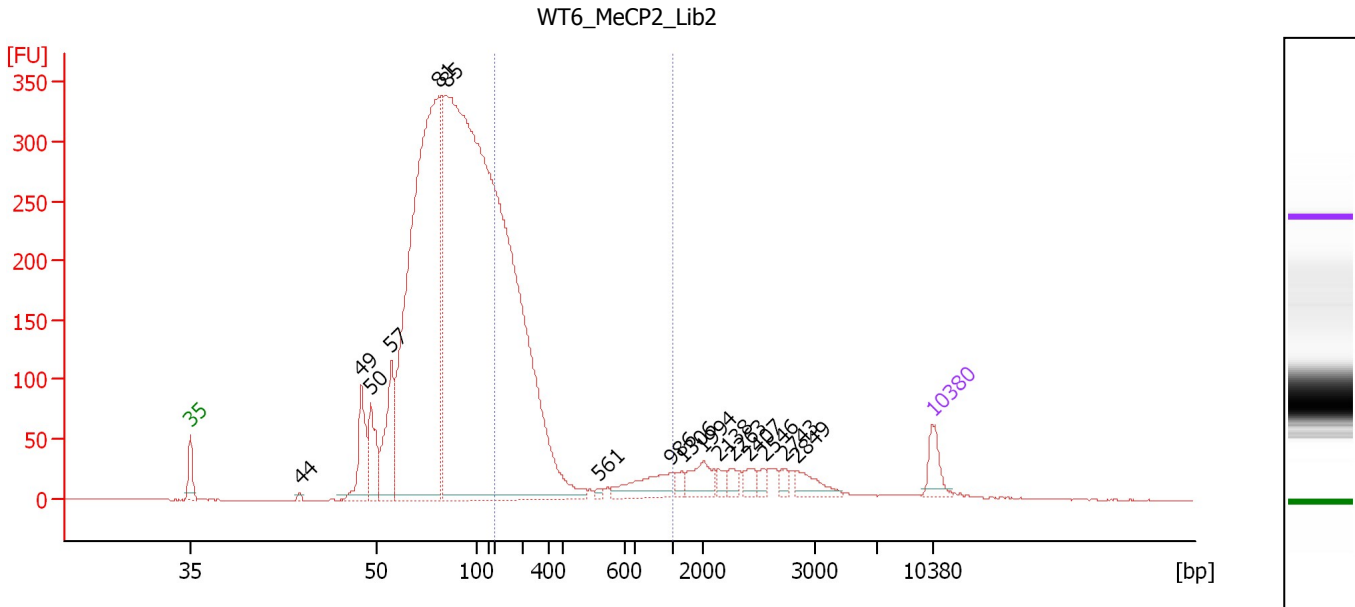
Region table for sample 9 : WT6_MeCP2_Lib1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	420	2,492.2	442.50	142.0	2	64.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : WT6 MeCP2 Lib2

Number of peaks found: 16 Corr. Area 1: 1,329.4
 Noise: 0.4

Peak table for sample 10 : WT6 MeCP2 Lib2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	12.59	435.4	
3	49	318.22	9,883.8	
4	50	262.76	8,034.0	
5	57	431.38	11,394.2	
6	81	3,945.79	73,979.3	
7	85	8,582.67	153,332.1	
8	561	10.55	28.5	
9	986	138.96	213.5	
10	1,306	31.33	36.4	
11	1,994	93.22	70.8	
12	2,138	28.21	20.0	
13	2,263	32.41	21.7	
14	2,407	40.64	25.6	
15	2,546	22.75	13.5	
16	2,743	27.55	15.2	
17	2,849	65.69	34.9	
18	10,380	75.00	10.9	Upper Marker

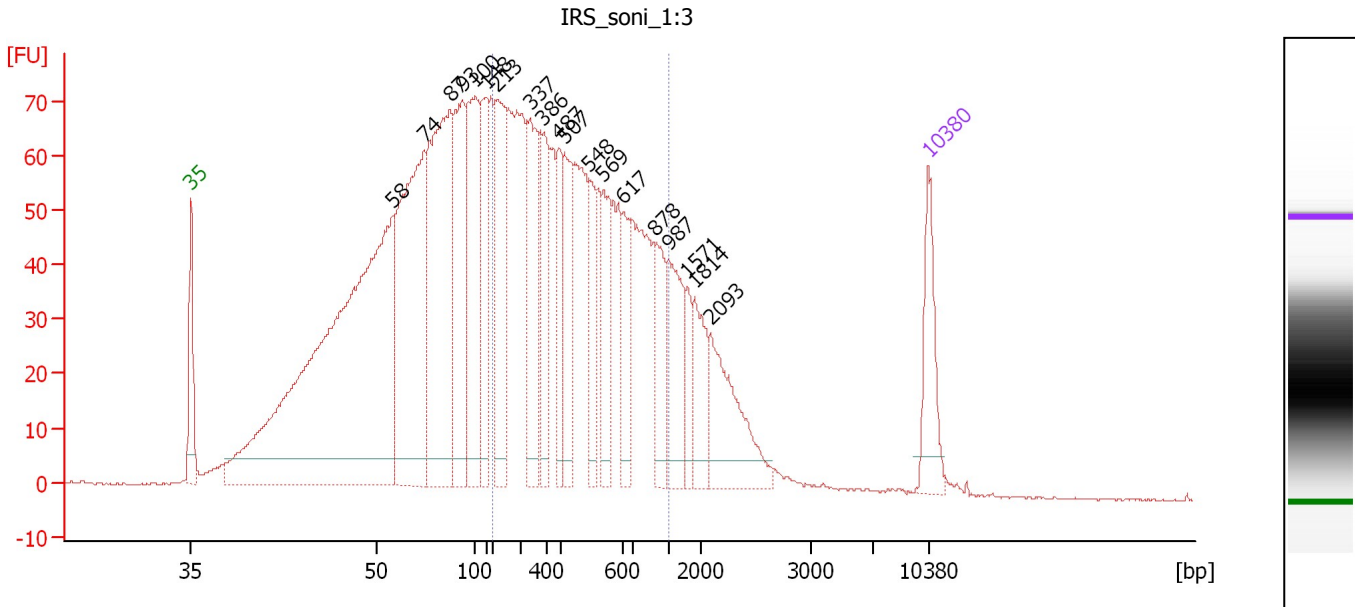
Region table for sample 10 : WT6 MeCP2 Lib2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	341	12,971.5	2,463.78	1,329.4	22	49.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : IRS_soni_1:3

Number of peaks found: 19 Corr. Area 1: 1,202.5
 Noise: 0.2

Peak table for sample 11 : IRS_soni_1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	58	1,527.73	39,982.2	
3	74	646.67	13,238.8	
4	87	601.62	10,457.0	
5	93	305.83	4,964.0	
6	100	332.14	5,042.9	
7	148	178.84	1,836.4	
8	213	230.42	1,639.3	
9	337	164.23	738.4	
10	386	110.20	432.4	
11	487	88.32	275.0	
12	507	111.60	333.3	
13	548	73.79	204.1	
14	569	99.99	266.1	
15	617	75.02	184.3	
16	878	83.88	144.7	
17	987	114.26	175.5	
18	1,571	34.80	33.6	
19	1,814	70.50	58.9	
20	2,093	125.16	90.6	
21	10,380	75.00	10.9	Upper Marker

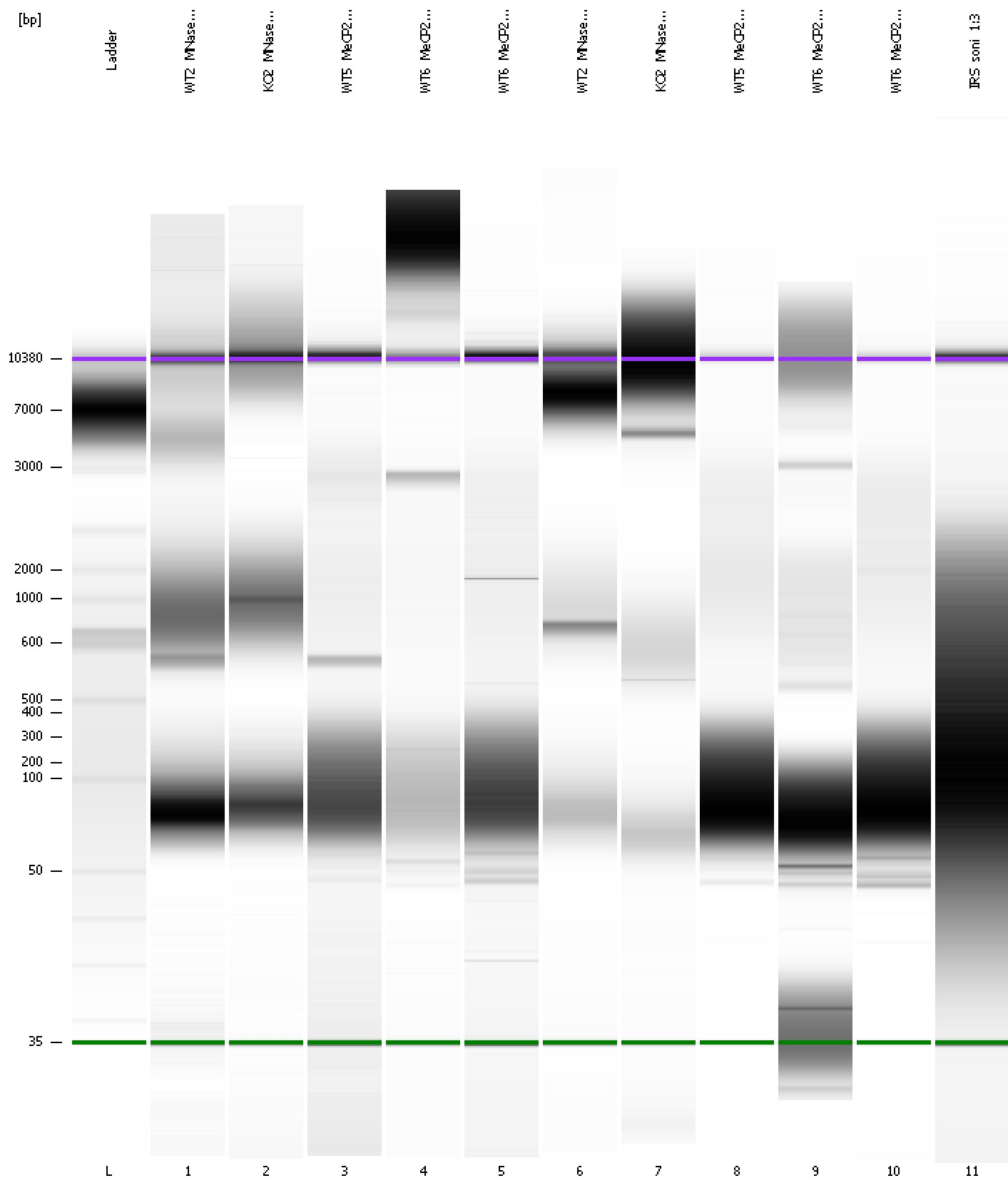
Region table for sample 11 : IRS_soni_1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	503	7,994.9	2,122.15	1,202.5	40	39.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
Modified: 8/5/2013 12:58:07 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad

Created: 8/5/2013 12:14:44 PM
 Modified: 8/5/2013 12:58:07 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		8/5/2013 12:56:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-05\2013-08-05_002.xad)		Instrument	Run		8/5/2013 12:14:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/5/2013 12:14:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/5/2013 12:14:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/5/2013 12:14:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/5/2013 12:14:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/5/2013 12:14:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/5/2013 12:14:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1