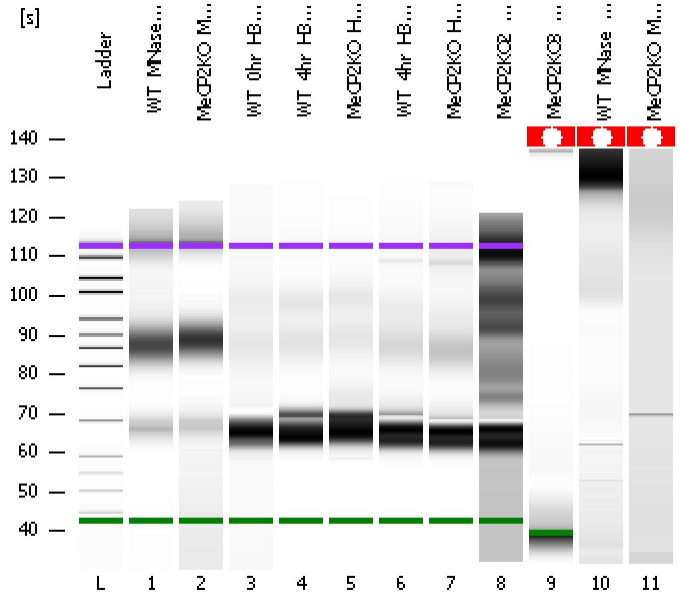
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

Created: 2/20/2013 1:13:56 PM
Modified: 2/20/2013 1:55:20 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

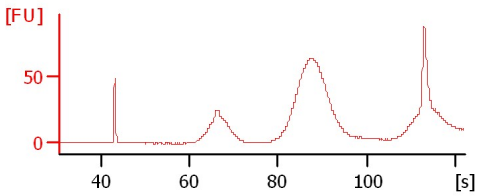
Chip Information:

Chip Lot #:

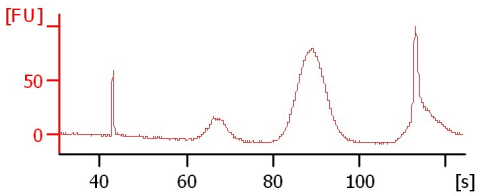
Reagent Kit Lot #:

Chip Comments:

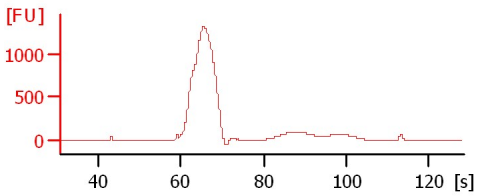
WT_MNase_S1SE_1/20



MeCP2KO_MNase_S1SE_1/20



WT_0hr_H3K9ac



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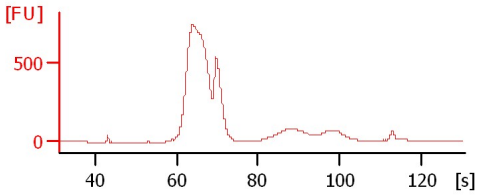

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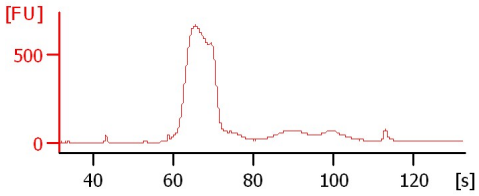
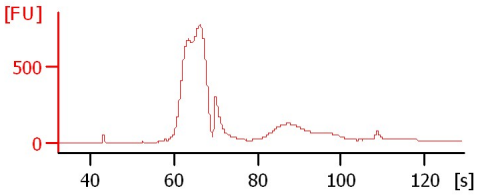
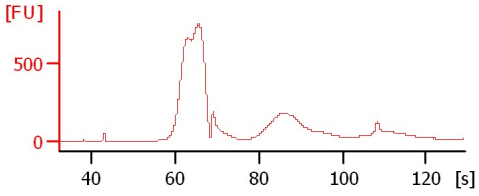


WT_4hr_H3K27ac



MeCP2KO_H3K27ac



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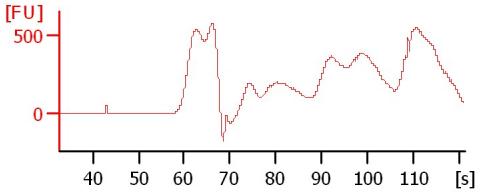
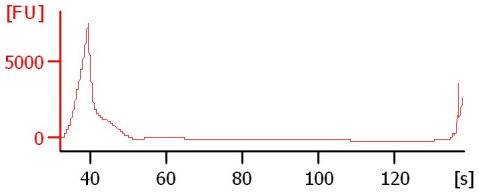
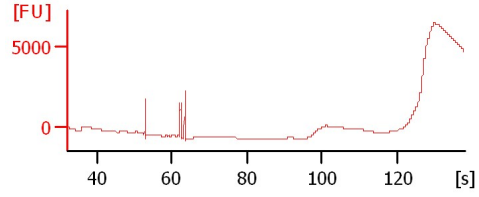


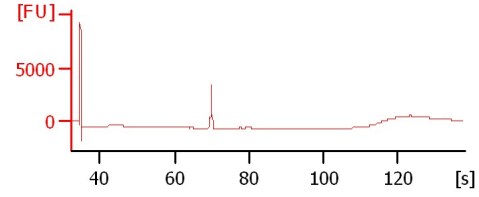
MeCP2KO3_H4K20me3



WT_MNase_S1SE_1/2



MeCP2KO_MNase_S1SE1/2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

Created: 2/20/2013 1:13:56 PM
Modified: 2/20/2013 1:55:20 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
WT_MNase_S1SE_1/20		☐	✔			
MeCP2KO_MNase_S1SE_1/20		☐	✔			
WT_0hr_H3K9ac		☐	✔			
WT_4hr_H3K9ac		☐	✔			
MeCP2KO_H3K9ac		☐	✔			
WT_4hr_H3K27ac		☐	✔			
MeCP2KO_H3K27ac		☐	✔			
MeCP2KO2_H4K20me3		☐	✔			
MeCP2KO3_H4K20me3		☐	✔			
WT_MNase_S1SE_1/2		☐	✔			
MeCP2KO_MNase_S1SE1/2		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

Created: 2/20/2013 1:13:56 PM
Modified: 2/20/2013 1:55:20 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

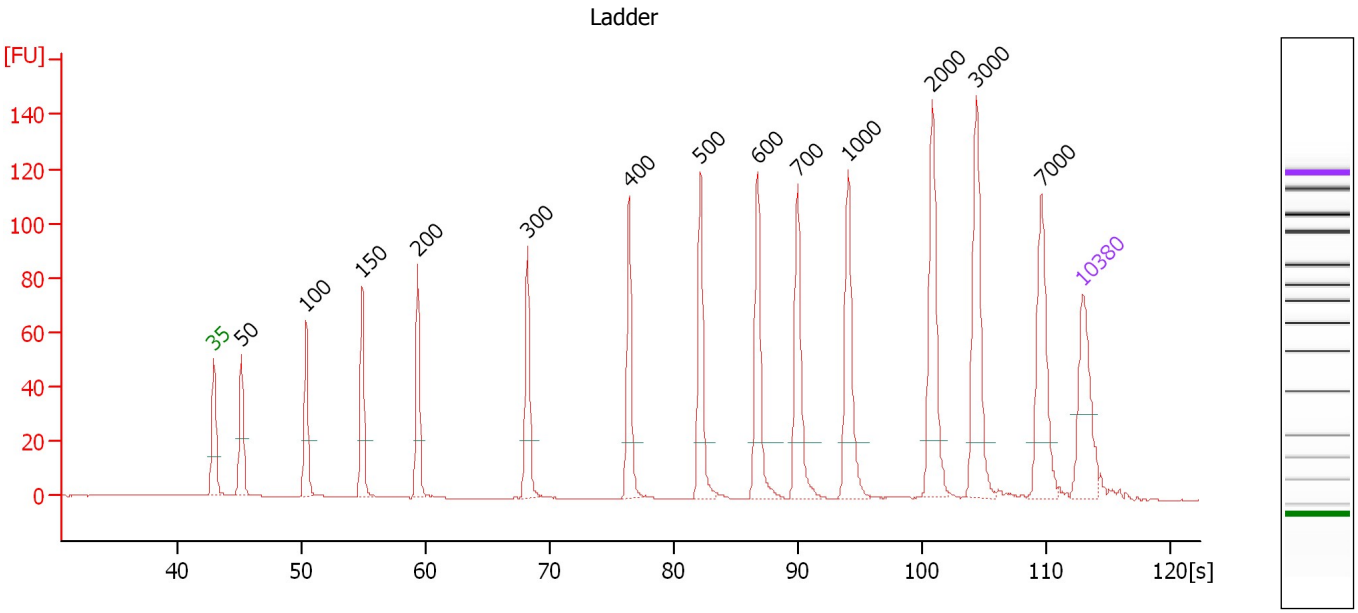
Ladder

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\2013-02-20\2013-02-20_003.xad

Created: 2/20/2013 1:13:56 PM
Modified: 2/20/2013 1:55:20 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

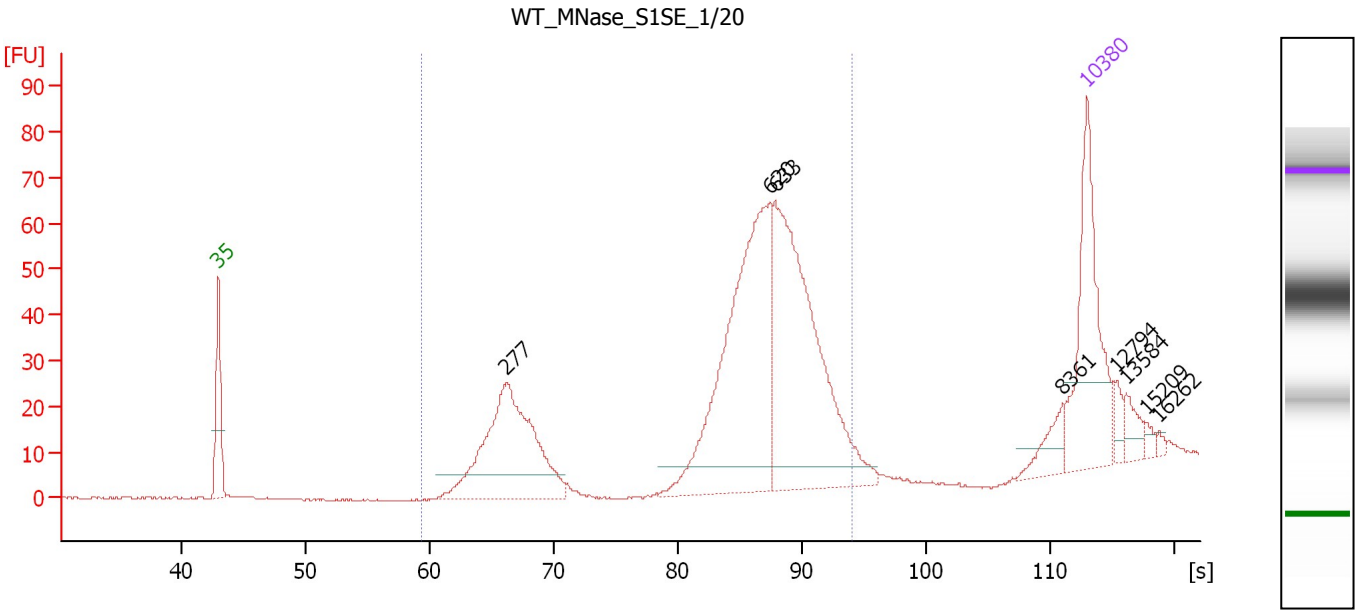
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

Created: 2/20/2013 1:13:56 PM
Modified: 2/20/2013 1:55:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : WT_MNase_S1SE_1/20

Number of peaks found:	8	Corr. Area 1:	626.6
Noise:	0.2		

Peak table for sample 1 : WT_MNase_S1SE_1/20

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	277	175.01	957.4	
3	620	232.77	568.9	
4	633	224.91	538.1	
5	8,361	15.75	2.9	
6	10,380	75.00	10.9	Upper Marker
7	12,794	0.00	0.0	
8	13,584	0.00	0.0	
9	15,209	0.00	0.0	
10	16,262	0.00	0.0	

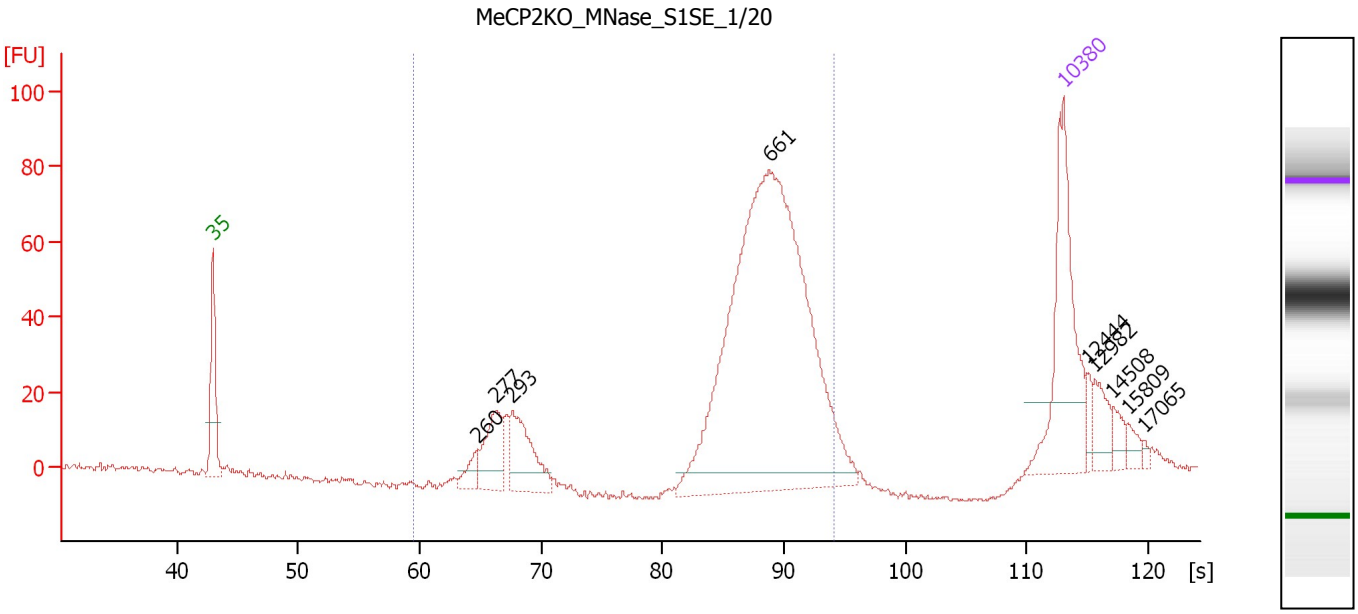
Region table for sample 1 : WT_MNase_S1SE_1/20

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	589	1,580.9	510.24	626.6	92	27.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

Created: 2/20/2013 1:13:56 PM
Modified: 2/20/2013 1:55:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MeCP2KO_MNase_S1SE_1/20

Number of peaks found:	9	Corr. Area 1:	700.1
Noise:	0.7		

Peak table for sample 2 : MeCP2KO_MNase_S1SE_1/20

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	260	13.87	80.9	
3	277	43.24	236.3	
4	293	53.79	278.3	
5	661	471.78	1,081.1	
6	10,380	75.00	10.9	Upper Marker
7	12,444	0.00	0.0	
8	12,982	0.00	0.0	
9	14,508	0.00	0.0	
10	15,809	0.00	0.0	
11	17,065	0.00	0.0	

Region table for sample 2 : MeCP2KO_MNase_S1SE_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	648	1,232.4	456.10	700.1	89	23.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

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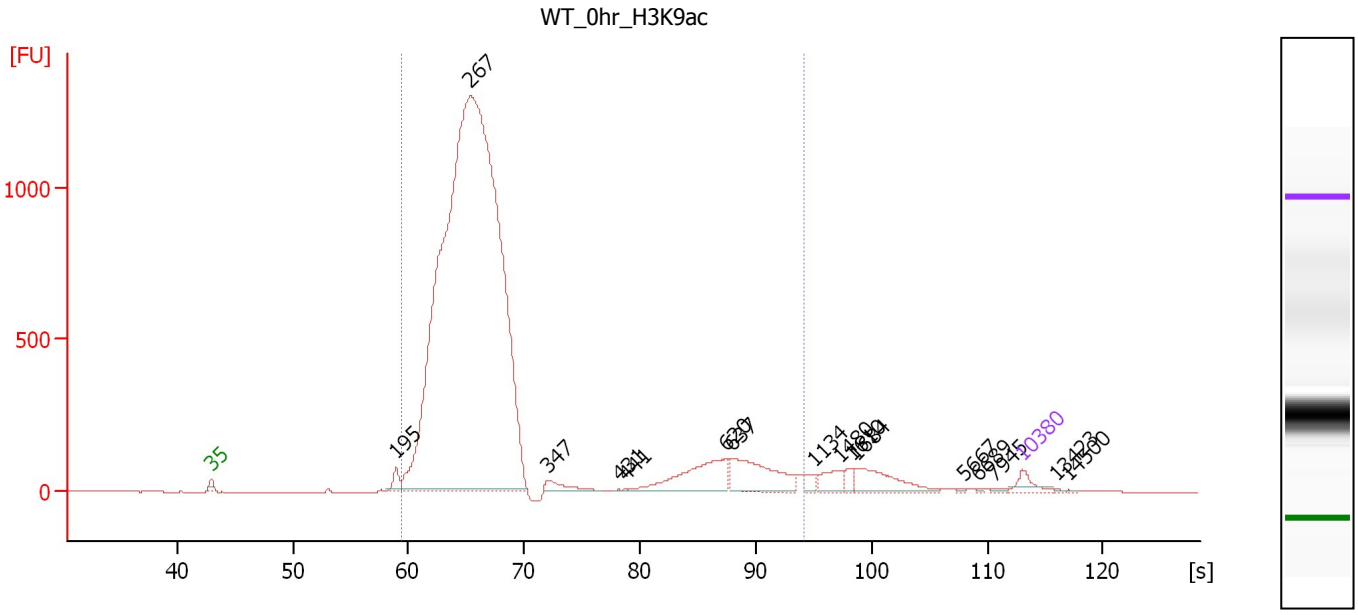
Modified: 2/20/2013 1:55:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : WT_0hr_H3K9ac

Number of peaks found:	16	Corr. Area 1:	13,277.5
Noise:	0.6		

Peak table for sample 3 : WT_0hr_H3K9ac

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	195	108.18	841.7	
3	267	14,783.56	83,962.8	
4	347	129.13	563.7	
5	431	4.92	17.3	
6	441	5.75	19.8	
7	620	540.52	1,320.6	
8	637	529.52	1,259.1	
9	1,134	55.20	73.8	
10	1,480	128.58	131.6	
11	1,610	48.91	46.0	
12	1,684	268.76	241.8	
13	5,667	6.08	1.6	
14	6,689	6.73	1.5	
15	7,945	12.80	2.4	
16	10,380	75.00	10.9	Upper Marker
17	13,423	0.00	0.0	
18	14,500	0.00	0.0	

Region table for sample 3 : WT_0hr_H3K9ac

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	313	88,036.4	16,143.71	13,277.5	94	43.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

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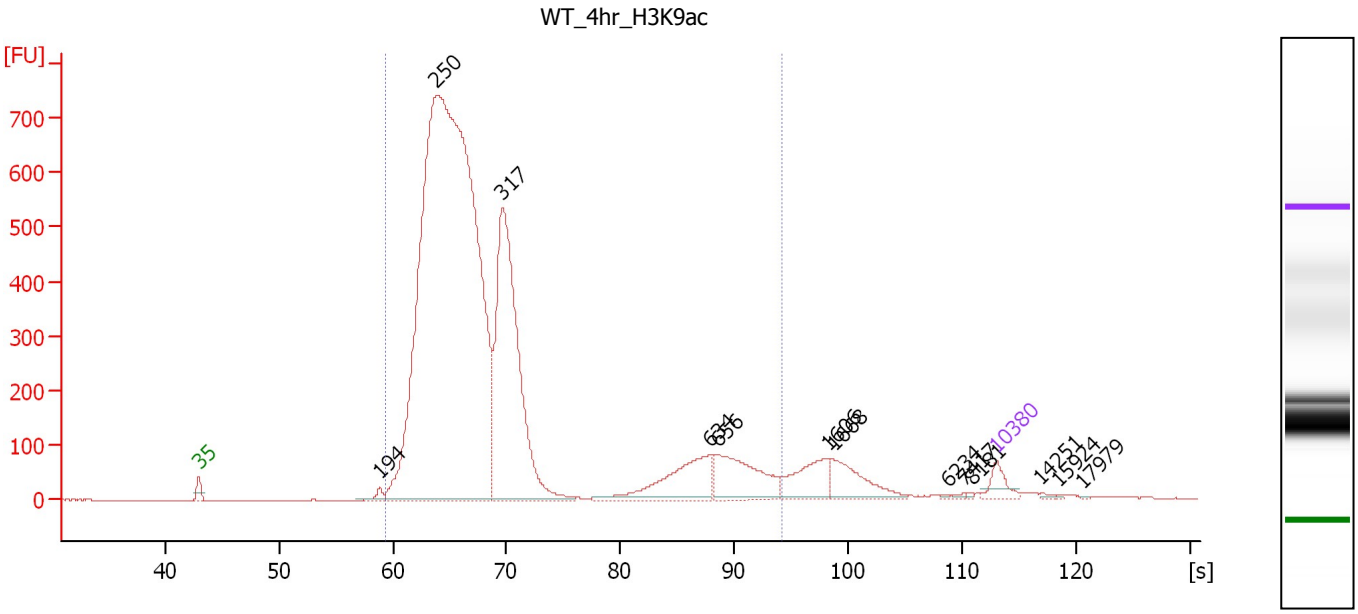

Overall Results for sample 4 : WT_4hr_H3K9ac

Number of peaks found:	13	Corr. Area 1:	9,170.6
Noise:	0.3		

Peak table for sample 4 : WT_4hr_H3K9ac

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		194	48.87	382.3	
3		250	8,743.00	53,064.6	
4		317	2,137.80	10,234.0	
5		634	416.75	995.6	
6		656	423.15	977.4	
7		1,606	224.88	212.2	
8		1,668	209.66	190.4	
9		6,234	5.35	1.3	
10		7,417	8.81	1.8	
11		8,181	5.22	1.0	
12	▶	10,380	75.00	10.9	Upper Marker
13		14,251	0.00	0.0	
14		15,924	0.00	0.0	
15		17,979	0.00	0.0	

Region table for sample 4 : WT_4hr_H3K9ac

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	322	60,454.8	11,337.26	9,170.6	94	42.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

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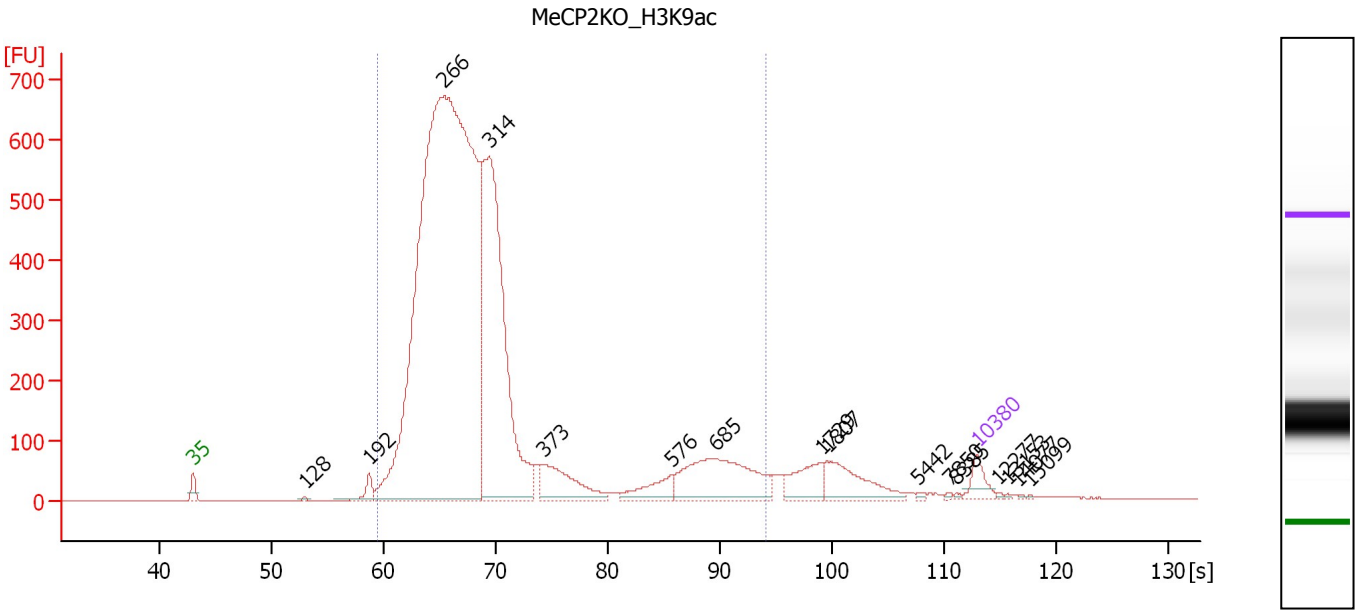

Overall Results for sample 5 : MeCP2KO_H3K9ac

Number of peaks found:	16	Corr. Area 1:	8,969.8
Noise:	0.3		

Peak table for sample 5 : MeCP2KO_H3K9ac

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	128	11.36	134.9	
3	192	82.23	650.5	
4	266	7,946.68	45,207.9	
5	314	2,468.57	11,908.2	
6	373	344.67	1,398.9	
7	576	147.89	389.2	
8	685	588.38	1,300.6	
9	1,729	163.93	143.6	
10	1,807	225.79	189.3	
11	5,442	7.53	2.1	
12	7,850	6.73	1.3	
13	8,385	5.69	1.0	
14	10,380	75.00	10.9	Upper Marker
15	12,277	0.00	0.0	
16	13,153	0.00	0.0	
17	14,077	0.00	0.0	
18	15,099	0.00	0.0	

Region table for sample 5 : MeCP2KO_H3K9ac

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	326	59,029.4	11,362.33	8,969.8	93	40.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

Created: 2/20/2013 1:13:56 PM
Modified: 2/20/2013 1:55:20 PM

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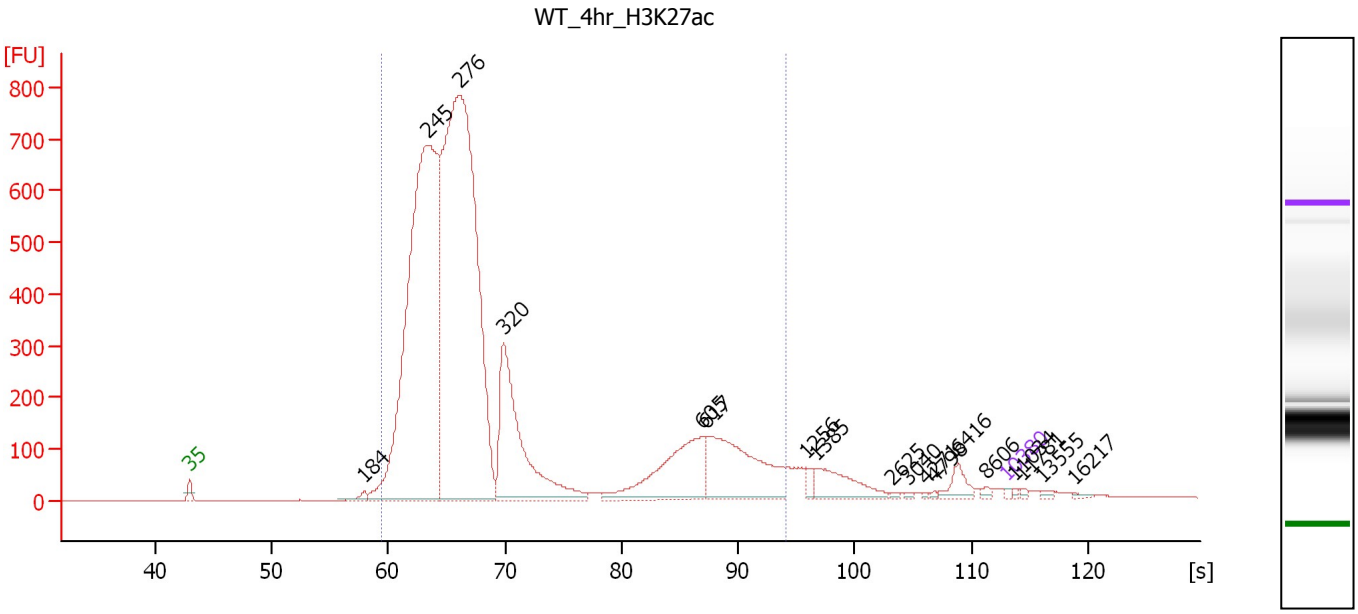

Overall Results for sample 6 : WT_4hr_H3K27ac

Number of peaks found:	18	Corr. Area 1:	9,896.7
Noise:	0.2		

Peak table for sample 6 : WT_4hr_H3K27ac

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	184	401.05	3,311.0	
3	245	41,732.06	258,366.3	
4	276	49,022.16	269,097.4	
5	320	10,933.23	51,814.8	
6	605	5,725.58	14,334.2	
7	617	6,711.15	16,492.3	
8	1,256	361.45	436.0	
9	1,385	2,018.71	2,208.6	
10	2,625	69.58	40.2	
11	3,040	65.20	32.5	
12	4,271	51.17	18.2	
13	4,798	55.31	17.5	
14	6,416	751.01	177.4	
15	8,606	138.40	24.4	
16	10,380	75.00	10.9	Upper Marker
17	11,034	0.00	0.0	
18	11,781	0.00	0.0	
19	13,555	0.00	0.0	
20	16,217	0.00	0.0	

Region table for sample 6 : WT_4hr_H3K27ac

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	336	604,717.7	113,422.41	9,896.7	93	47.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

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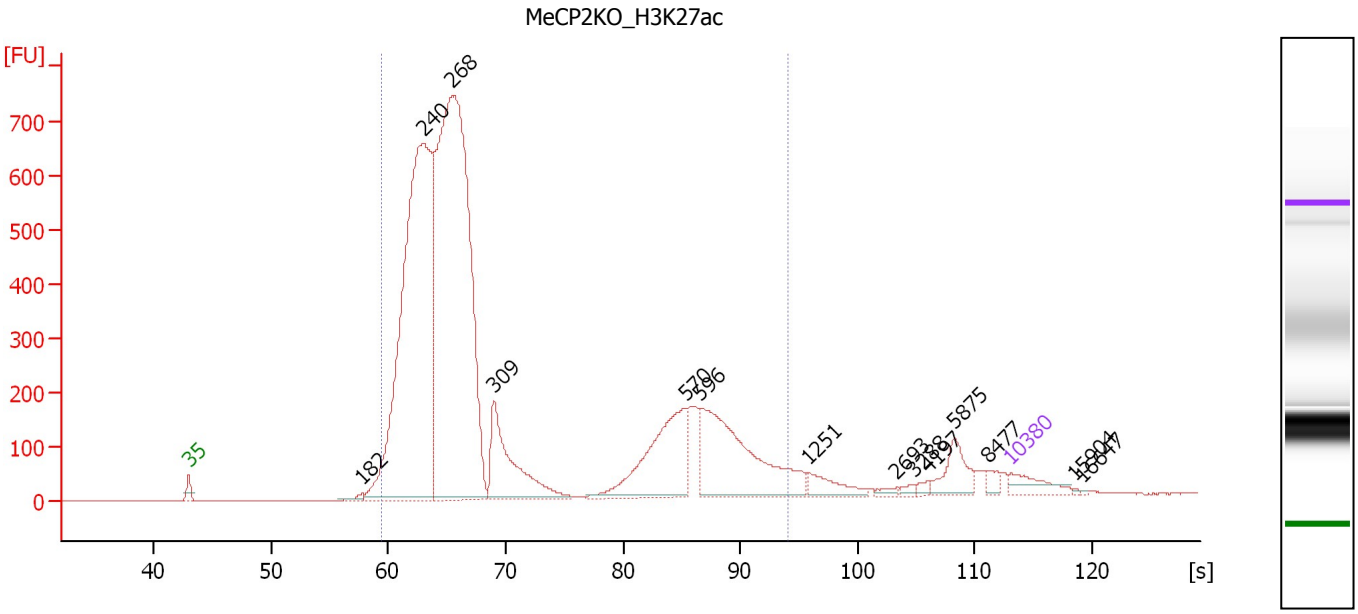

Overall Results for sample 7 : MeCP2KO_H3K27ac

Number of peaks found:	14	Corr. Area 1:	9,424.0
Noise:	0.3		

Peak table for sample 7 : MeCP2KO_H3K27ac

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	182	22.77	190.1	
3	240	3,196.17	20,199.4	
4	268	3,787.85	21,435.8	
5	309	528.05	2,590.8	
6	570	579.08	1,539.0	
7	596	759.41	1,930.4	
8	1,251	96.30	116.6	
9	2,693	16.62	9.3	
10	3,288	15.95	7.4	
11	4,197	18.68	6.7	
12	5,875	127.48	32.9	
13	8,477	30.75	5.5	
14	10,380	75.00	10.9	Upper Marker
15	15,904	0.00	0.0	
16	16,647	0.00	0.0	

Region table for sample 7 : MeCP2KO_H3K27ac

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	47,138.8	8,806.42	9,424.0	93	48.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

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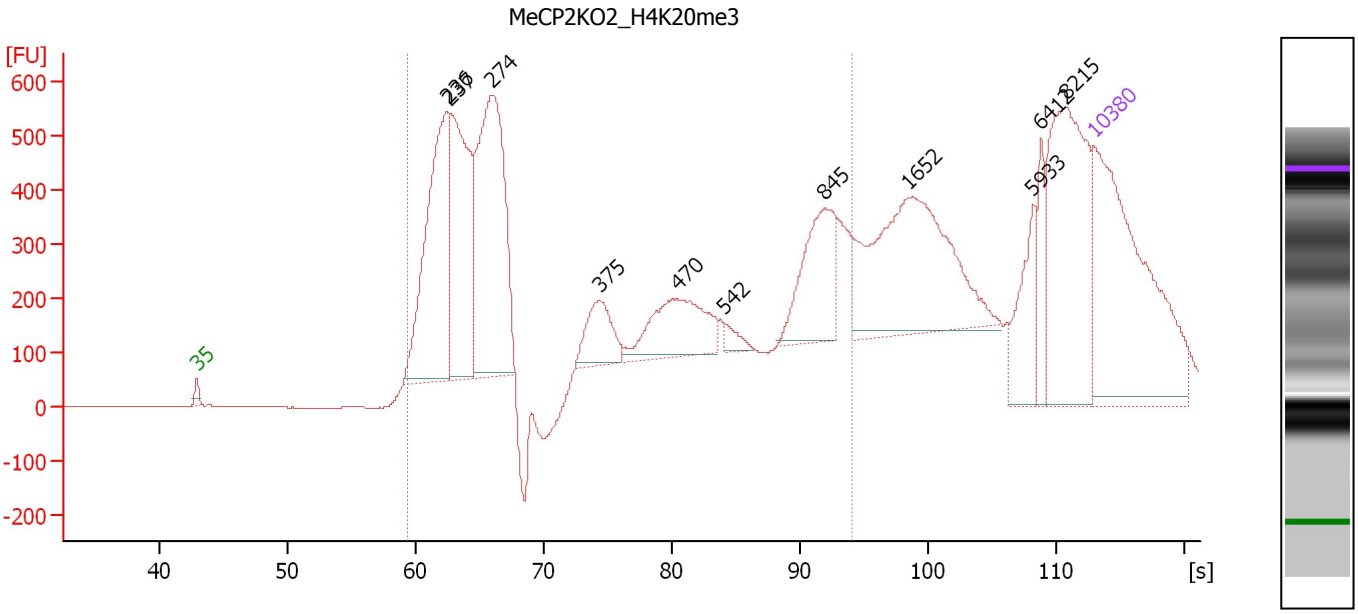
Modified: 2/20/2013 1:55:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MeCP2KO2_H4K20me3

Number of peaks found:	11	Corr. Area 1:	9,397.9
Noise:	0.3		

Peak table for sample 8 : MeCP2KO2_H4K20me3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	236	105.24	676.8	
3	237	91.41	584.3	
4	274	127.06	701.4	
5	375	21.17	85.6	
6	470	38.45	123.8	
7	542	4.37	12.2	
8	845	38.28	68.6	
9	1,652	77.40	71.0	
10	5,933	20.12	5.1	
11	6,412	11.53	2.7	
12	8,215	66.58	12.3	
13	10,380	75.00	10.9	Upper Marker

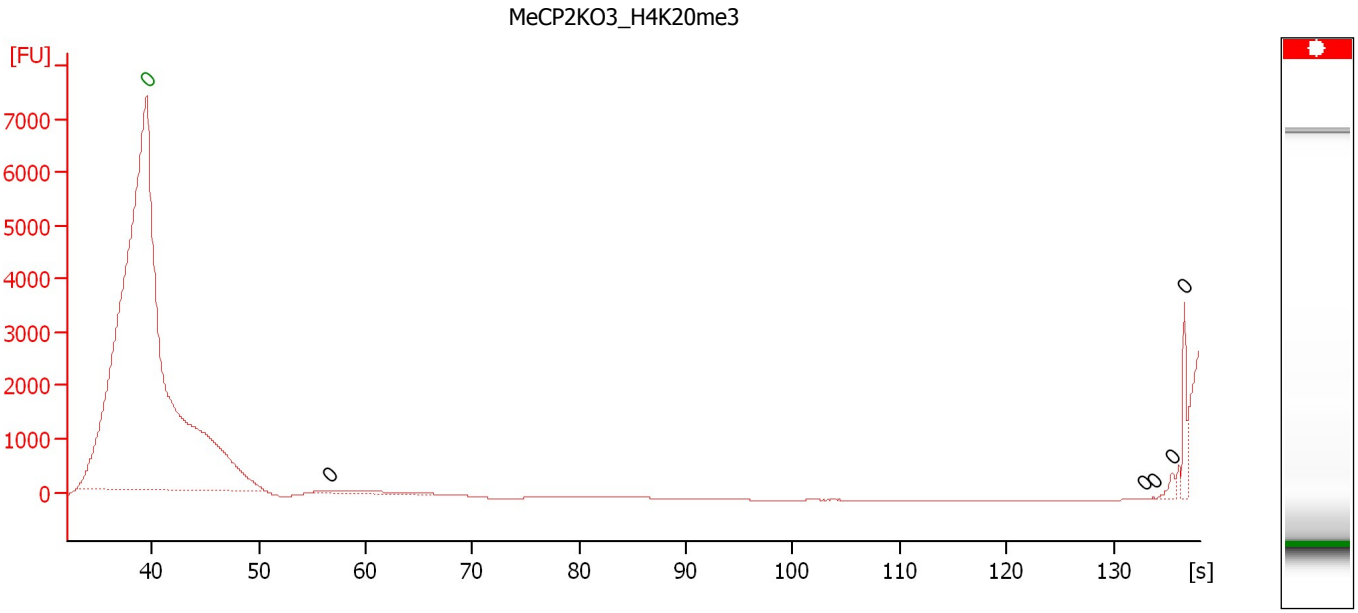
Region table for sample 8 : MeCP2KO2_H4K20me3

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	427	2,560.4	520.27	9,397.9	65	54.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

Created: 2/20/2013 1:13:56 PM
Modified: 2/20/2013 1:55:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MeCP2KO3_H4K20me3

Number of peaks found: 5 Noise: 0.5

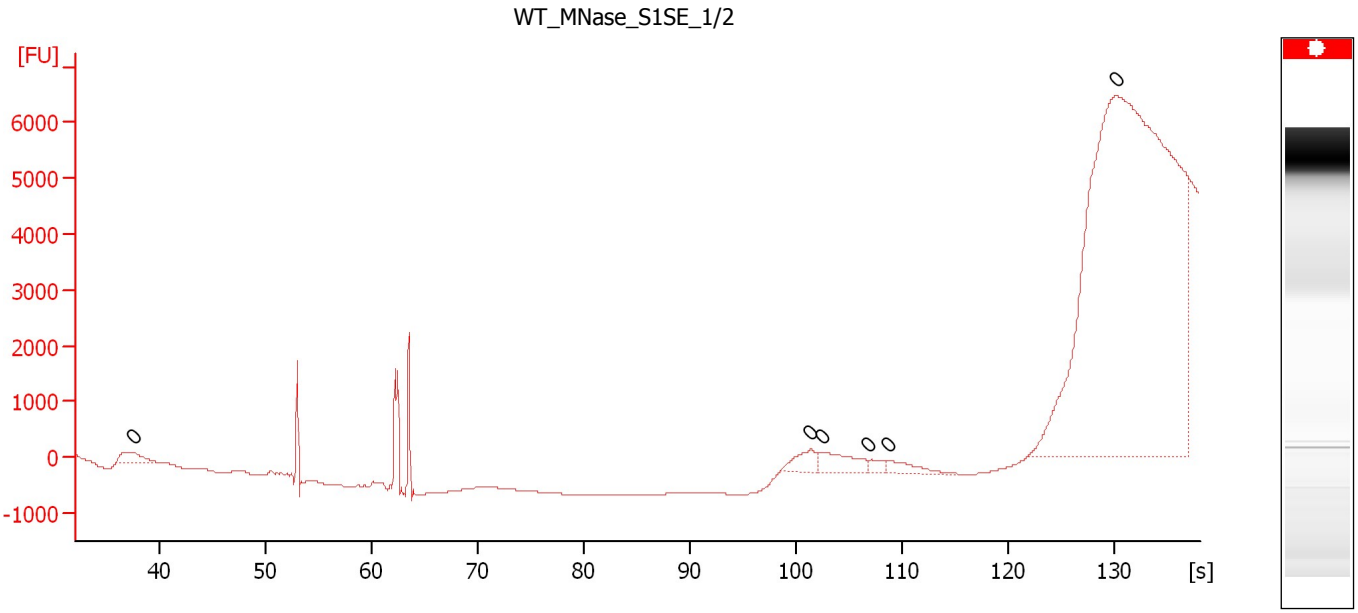
Peak table for sample 9 : MeCP2KO3_H4K20me3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

Created: 2/20/2013 1:13:56 PM
Modified: 2/20/2013 1:55:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : WT_MNase_S1SE_1/2

Number of peaks found: 0 Noise: 0.8

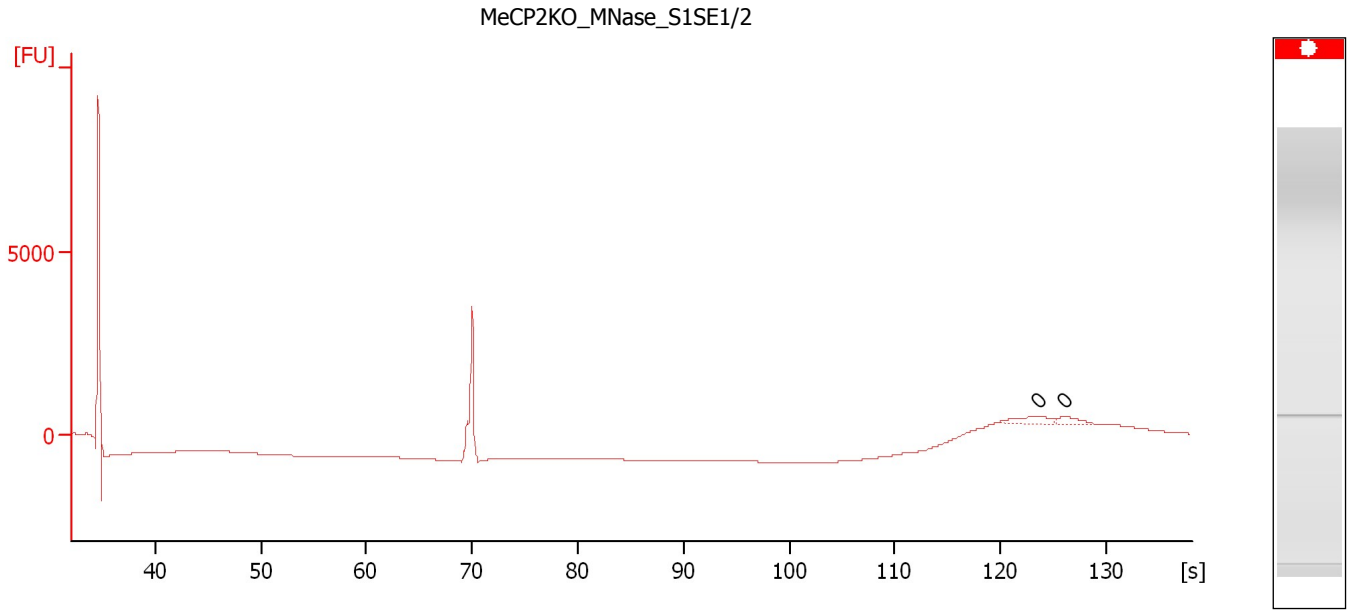
Peak table for sample 10 : WT_MNase_S1SE_1/2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

Created: 2/20/2013 1:13:56 PM
Modified: 2/20/2013 1:55:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : MeCP2KO_MNase_S1SE1/2

Number of peaks found: 0 Noise: 2.7

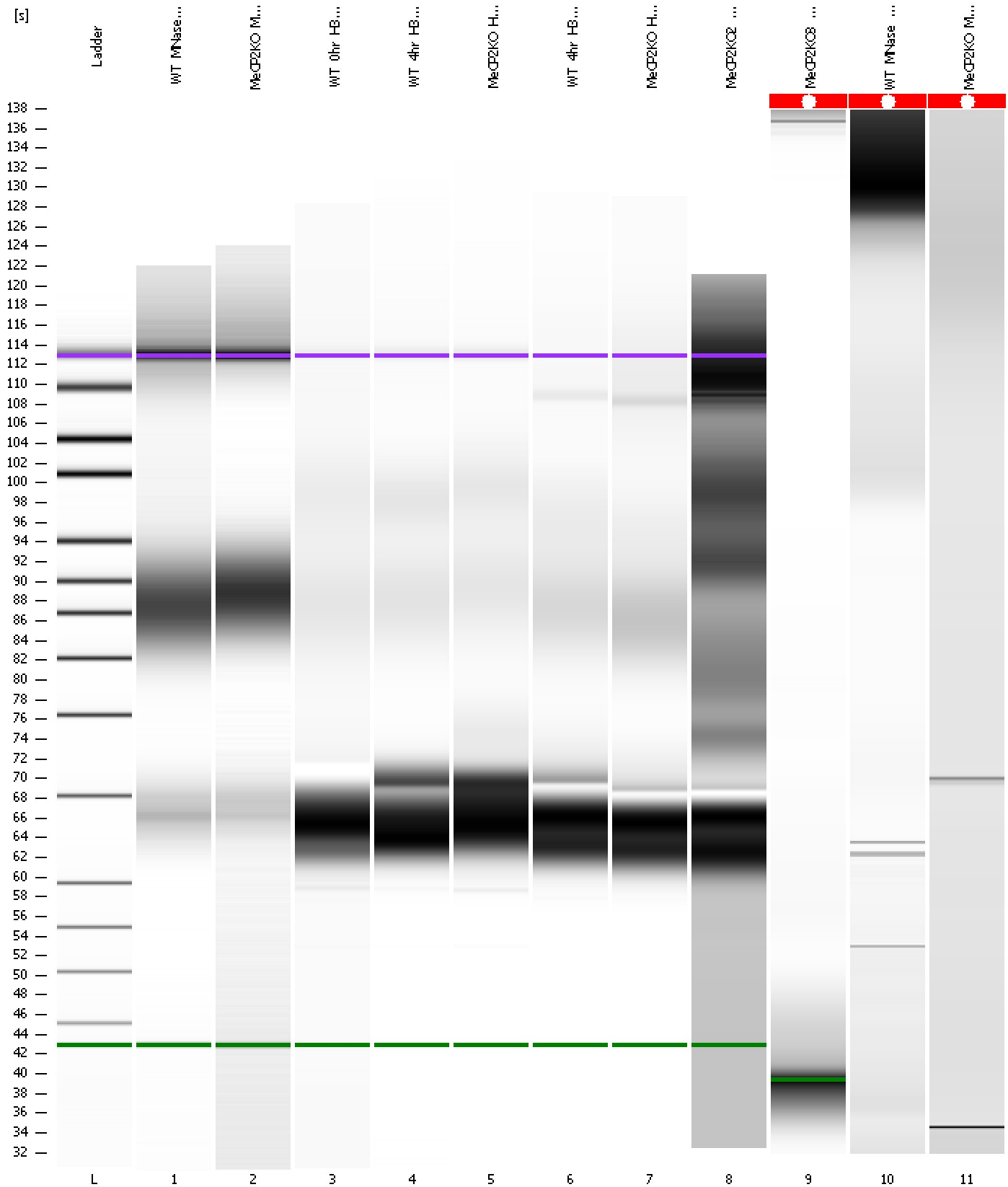
Peak table for sample 11 : MeCP2KO_MNase_S1SE1/2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

Created: 2/20/2013 1:13:56 PM
Modified: 2/20/2013 1:55:20 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad

Created: 2/20/2013 1:13:56 PM
Modified: 2/20/2013 1:55:20 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		2/20/2013 1:55:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-20\2013-02-20_003.xad)		Instrument	Run		2/20/2013 1:14:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/20/2013 1:14:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/20/2013 1:14:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/20/2013 1:14:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/20/2013 1:14:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/20/2013 1:14:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/20/2013 1:14:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1