

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12_001.xad

Created: 5/12/2015 10:15:12 AM
Modified: 5/12/2015 10:57:14 AM

Electrophoresis File Run Summary

Instrument Information:

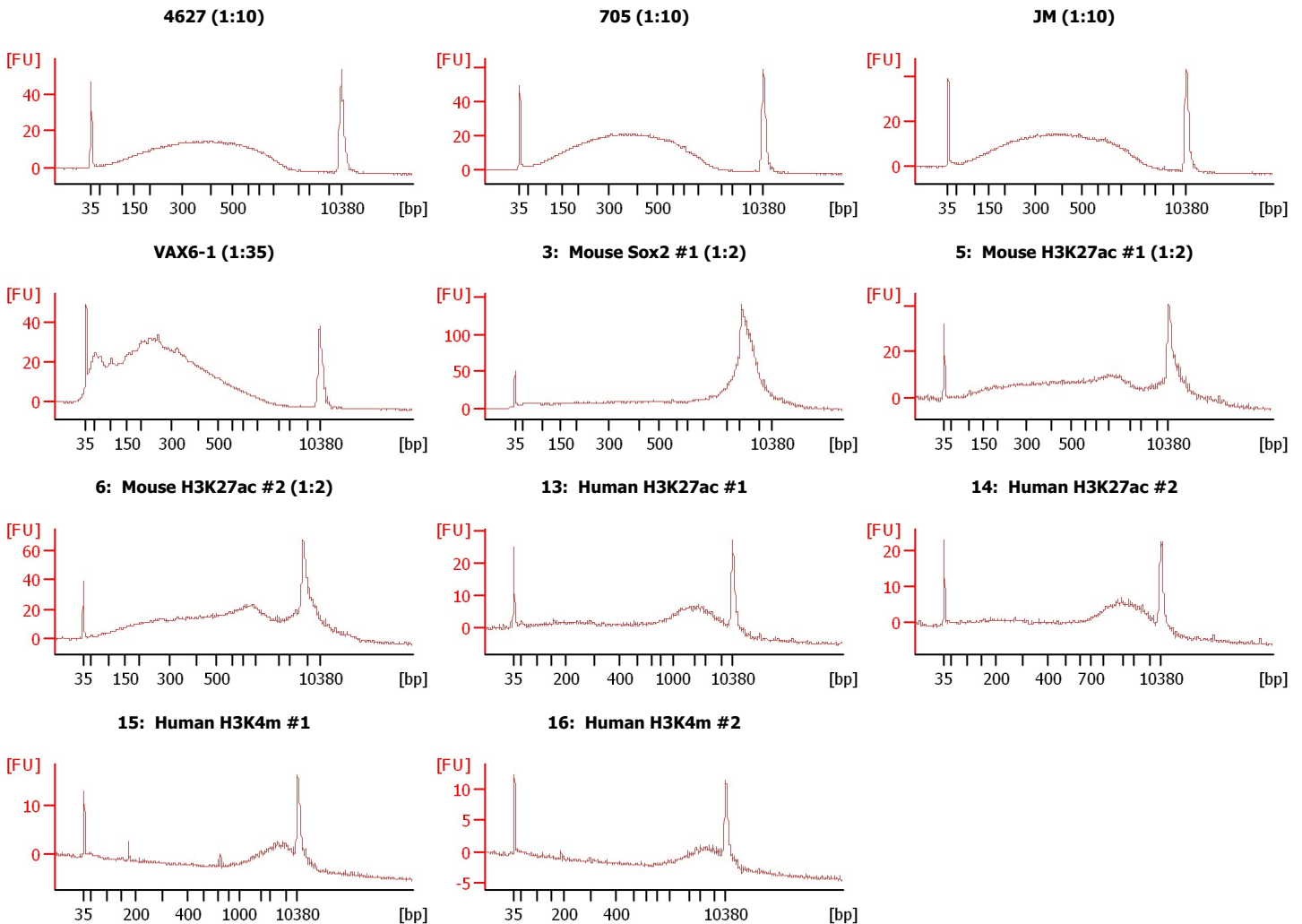
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
4627 (1:10)		<input type="checkbox"/>	✓			
705 (1:10)		<input type="checkbox"/>	✓			
JM (1:10)		<input type="checkbox"/>	✓			
VAX6-1 (1:35)		<input type="checkbox"/>	✓			
3: Mouse Sox2 #1 (1:2)		<input type="checkbox"/>	✓			
5: Mouse H3K27ac #1 (1:2)		<input type="checkbox"/>	✓			
6: Mouse H3K27ac #2 (1:2)		<input type="checkbox"/>	✓			
13: Human H3K27ac #1		<input type="checkbox"/>	✓			
14: Human H3K27ac #2		<input type="checkbox"/>	✓			
15: Human H3K4m #1		<input type="checkbox"/>	✓			
16: Human H3K4m #2		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

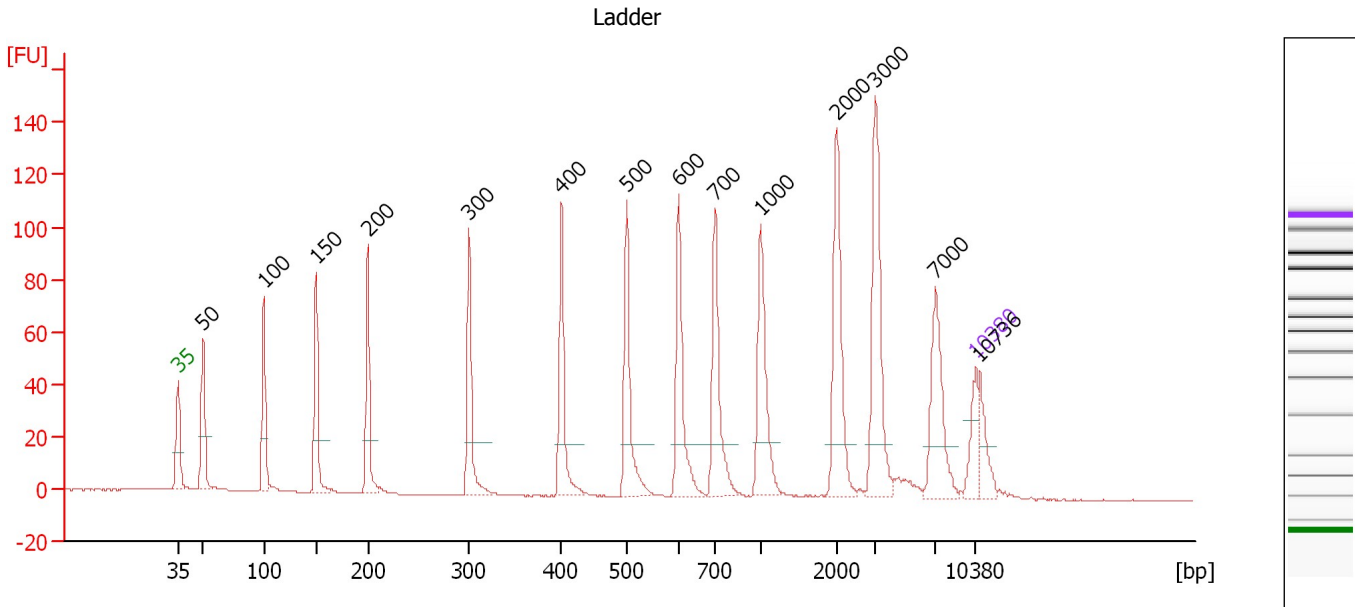
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

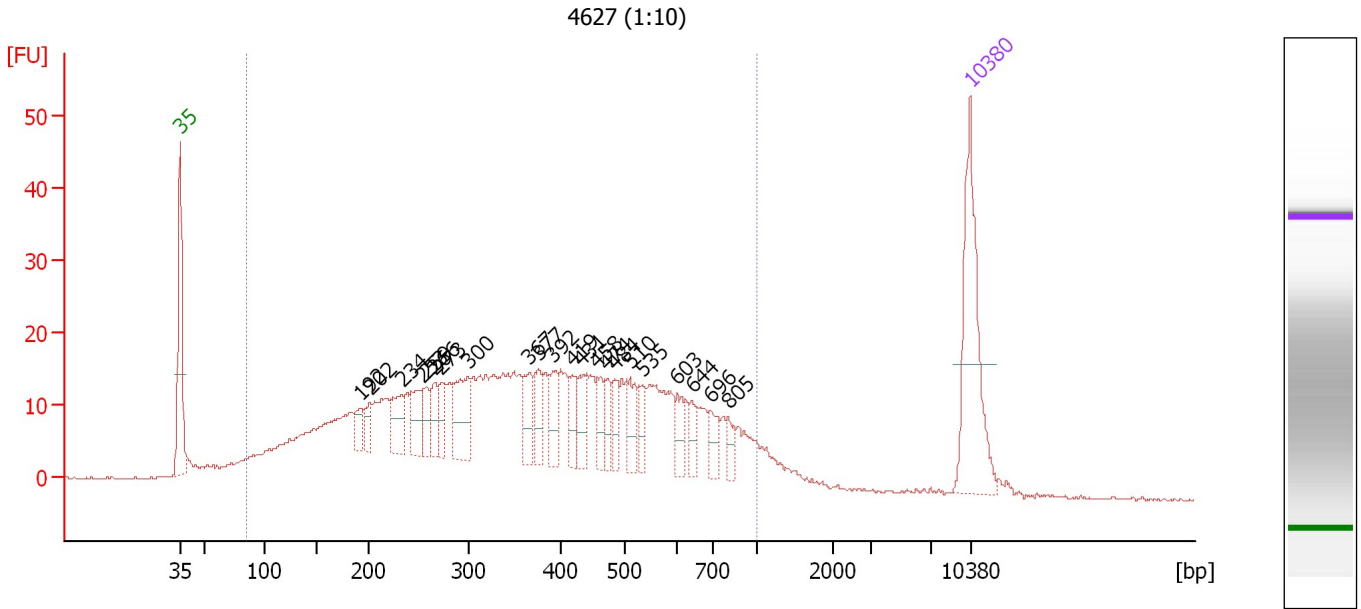
Peak table for Ladder

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	45.20
3	100	150.00	2,272.7	Ladder Peak	50.53
4	150	150.00	1,515.2	Ladder Peak	55.12
5	200	150.00	1,136.4	Ladder Peak	59.66
6	300	150.00	757.6	Ladder Peak	68.55
7	400	150.00	568.2	Ladder Peak	76.64
8	500	150.00	454.5	Ladder Peak	82.40
9	600	150.00	378.8	Ladder Peak	86.94
10	700	150.00	324.7	Ladder Peak	90.17
11	1,000	150.00	227.3	Ladder Peak	94.14
12	2,000	150.00	113.6	Ladder Peak	100.79
13	3,000	150.00	75.8	Ladder Peak	104.20
14	7,000	150.00	32.5	Ladder Peak	109.44
15	10,380	75.00	10.9	Upper Marker	113.00
16	10,736	0.00	0.0		113.37

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 4627 (1:10)

Number of peaks found: 22 Corr. Area 1: 777.7
 Noise: 0.2

Peak table for sample 1 : 4627 (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	192	12.22	96.3		58.96
3	202	13.14	98.7		59.82
4	234	29.04	188.3		62.65
5	253	28.66	171.5		64.40
6	259	18.10	106.1		64.87
7	266	20.06	114.3		65.53
8	273	17.67	98.1		66.14
9	300	43.39	219.5		68.51
10	367	22.37	92.5		73.94
11	377	20.03	80.6		74.74
12	392	20.83	80.5		76.02
13	419	17.15	62.1		77.72
14	431	23.36	82.1		78.43
15	458	15.34	50.7		79.98
16	474	15.01	48.0		80.88
17	484	16.09	50.3		81.50
18	510	24.16	71.7		82.87
19	535	14.52	41.1		84.00
20	603	14.29	35.9		87.02
21	644	11.18	26.3		88.34
22	696	14.81	32.2		90.04
23	805	9.25	17.4		91.56
24	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

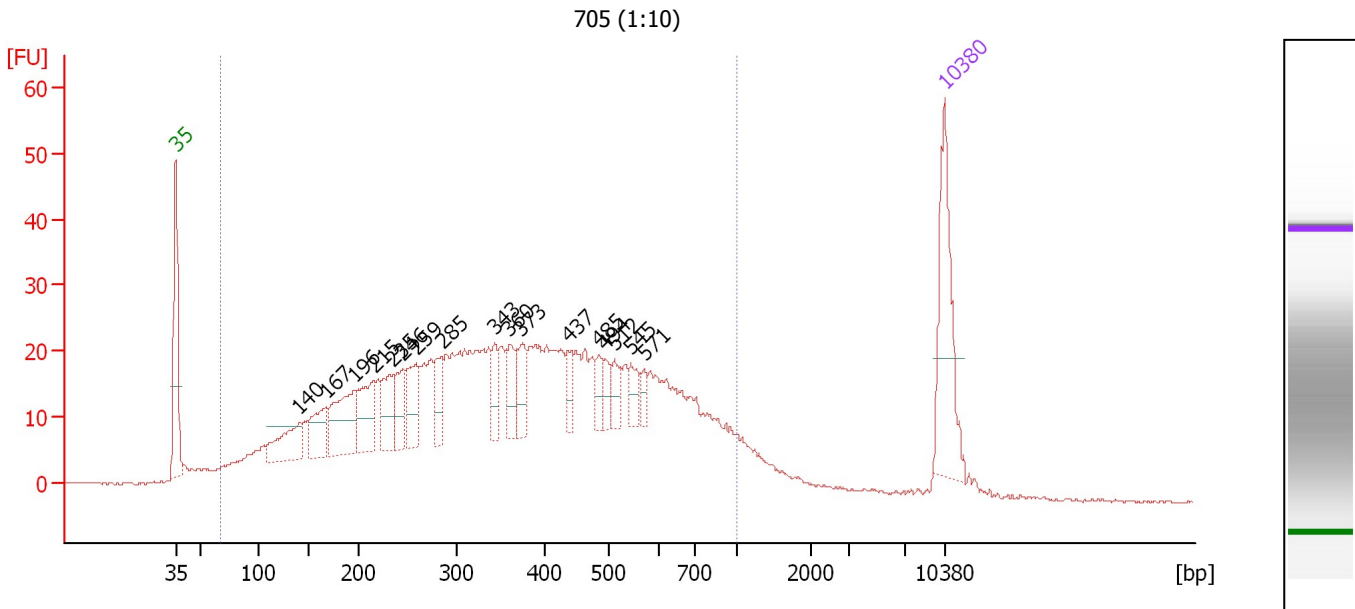
... Region table for sample 1 : **4627 (1:10)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
84	395	1,000	777.7	7,603.2	93	47.3	1,335.54	■

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 705 (1:10)

Number of peaks found: 17 Corr. Area 1: 1,068.1
 Noise: 0.2

Peak table for sample 2 : 705 (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	140	54.08	584.7		54.21
3	167	46.36	421.2		56.64
4	196	74.54	577.3		59.26
5	215	56.43	397.3		61.01
6	235	42.01	271.0		62.76
7	246	30.36	187.2		63.73
8	259	41.95	245.5		64.89
9	285	29.41	156.3		67.22
10	343	22.22	98.2		72.03
11	360	28.72	120.9		73.39
12	373	29.49	119.8		74.46
13	437	17.78	61.6		78.78
14	485	14.24	44.5		81.54
15	494	16.31	50.0		82.08
16	512	17.63	52.2		82.95
17	545	15.91	44.2		84.46
18	571	10.04	26.6		85.62
19	10,380	75.00	10.9	Upper Marker	113.00

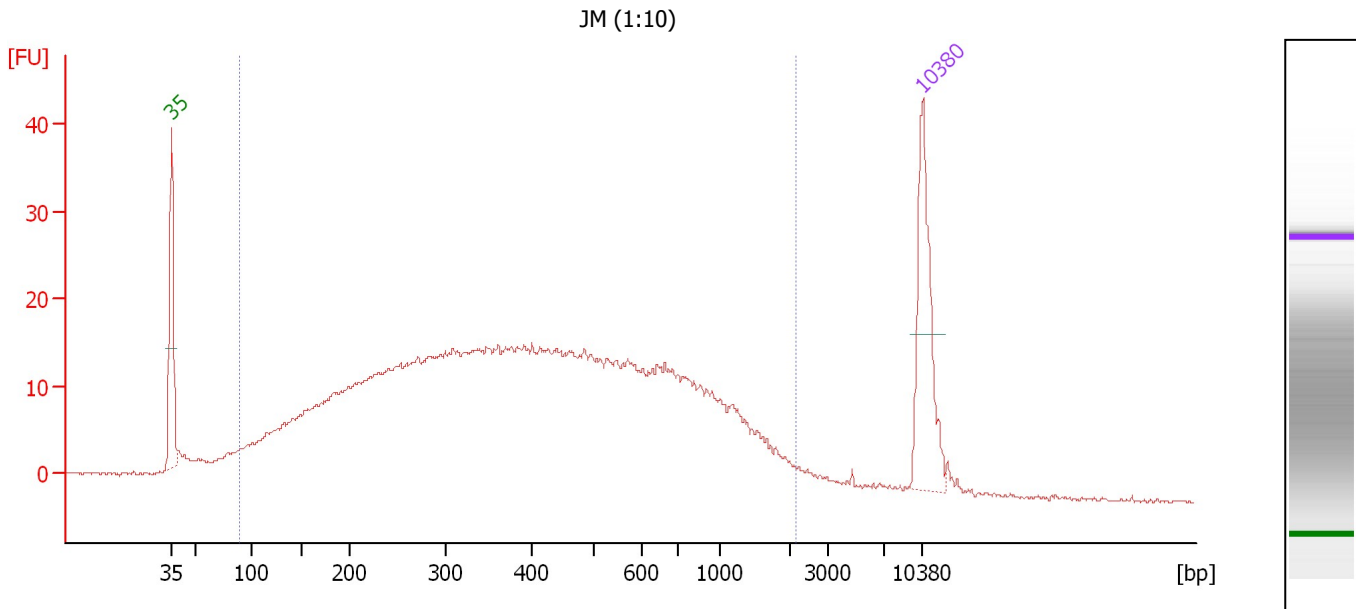
Region table for sample 2 : 705 (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
68	388	1,000	1,068.1	11,500.1	94	47.8	1,944.90	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : JM (1:10)

Number of peaks found: 0 Corr. Area 1: 829.8
 Noise: 0.2

Peak table for sample 3 : JM (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	10,380	75.00	10.9	Upper Marker	113.00

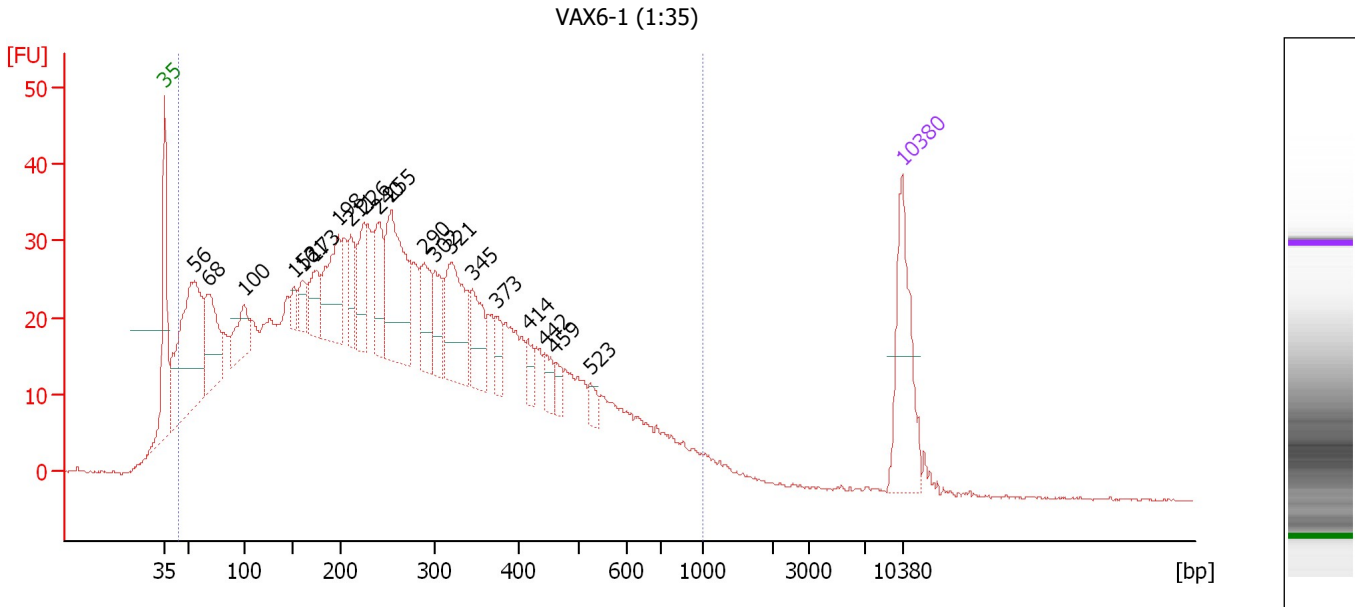
Region table for sample 3 : JM (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
90	487	2,112	829.8	9,097.0	94	69.8	1,707.33	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 4 : VAX6-1 (1:35)

Number of peaks found: 20 Corr. Area 1: 1,619.5
 Noise: 0.2

Peak table for sample 4 : VAX6-1 (1:35)

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	56	256.88	6,955.9		45.83
3	68	97.52	2,163.7		47.15
4	100	51.11	773.8		50.54
5	152	15.50	154.5		55.30
6	161	22.96	216.2		56.11
7	173	39.73	347.6		57.22
8	198	85.65	654.5		59.50
9	211	38.38	275.2		60.66
10	226	46.49	311.5		61.98
11	240	60.37	380.5		63.25
12	255	144.41	859.4		64.51
13	290	50.20	262.4		67.65
14	302	40.92	205.3		68.71
15	321	93.87	443.4		70.23
16	345	48.69	213.7		72.20
17	373	19.83	80.6		74.43
18	414	15.77	57.7		77.47
19	442	15.21	52.1		79.09
20	459	13.00	42.9		80.05
21	523	10.98	31.8		83.44
22	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

... Region table for sample 4 : VAX6-1 (1:35)

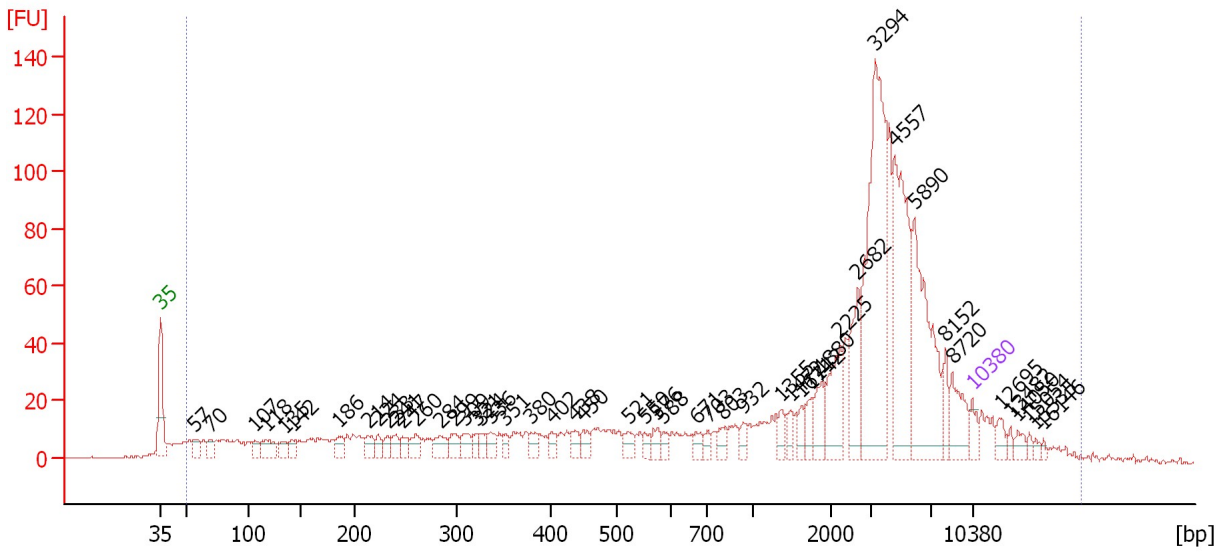
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Color
45	281	1,000	1,619.5	36,739.9	97	59.3	3,687.53	■

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Electropherogram Summary Continued ...

3: Mouse Sox2 #1 (1:2)



Overall Results for sample 5 : 3: Mouse Sox2 #1 (1:2)

Number of peaks found: 50 Corr. Area 1: 1,586.9
Noise: 0.4

Peak table for sample 5 : 3: Mouse Sox2 #1 (1:2)

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	57	122.25	3,227.6		45.99
3	70	95.01	2,047.3		47.37
4	107	95.18	1,353.4		51.14
5	118	187.05	2,410.2		52.15
6	135	112.29	1,259.0		53.76
7	142	84.56	904.5		54.35
8	186	105.73	863.1		58.35
9	214	122.83	870.7		60.88
10	224	73.11	494.3		61.80
11	233	81.35	528.1		62.63
12	241	94.79	595.6		63.32
13	247	89.68	549.3		63.87
14	260	111.54	649.4		65.02
15	284	135.96	726.5		67.08
16	299	113.75	577.3		68.42
17	309	114.59	562.6		69.24
18	321	71.84	339.0		70.26
19	324	68.61	320.3		70.53
20	336	92.73	417.6		71.50
21	351	66.45	286.7		72.69
22	380	75.02	299.4		74.99
23	402	71.27	268.9		76.74
24	438	82.94	287.2		78.80
25	450	87.00	293.2		79.49

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Electropherogram Summary Continued ...

... Peak table for sample 5 : 3: Mouse Sox2 #1 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	521	82.38	239.5		83.35
27	550	53.08	146.1		84.69
28	576	84.71	222.9		85.84
29	588	51.94	133.8		86.39
30	671	68.94	155.6		89.24
31	703	49.39	106.5		90.20
32	803	77.30	145.8		91.54
33	932	61.13	99.4		93.24
34	1,355	68.55	76.7		96.50
35	1,472	72.75	74.9		97.28
36	1,611	80.27	75.5		98.20
37	1,742	79.03	68.7		99.07
38	1,880	170.68	137.5		99.99
39	2,225	300.96	205.0		101.56
40	2,682	327.22	184.8		103.12
41	3,294	1,432.78	659.0		104.59
42	4,557	879.81	292.5		106.24
43	5,890	870.65	224.0		107.99
44	8,152	117.64	21.9		110.66
45	8,720	220.85	38.4		111.25
46	10,380	75.00	10.9	Upper Marker	113.00
47	12,695	0.00	0.0		115.44
48	13,482	0.00	0.0		116.26
49	14,050	0.00	0.0		116.86
50	15,054	0.00	0.0		117.92
51	15,535	0.00	0.0		118.42
52	16,146	0.00	0.0		119.07

Region table for sample 5 : 3: Mouse Sox2 #1 (1:2)

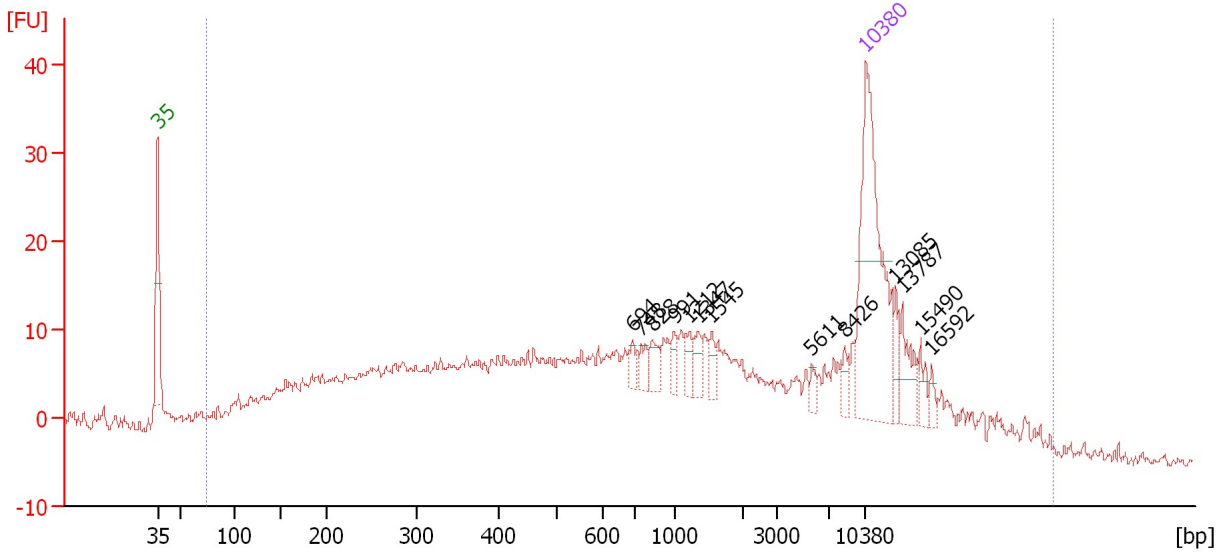
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
51	3,697	19,205	1,586.9	48,076.2	98	94.5	11,503.87	■

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Electropherogram Summary Continued ...

5: Mouse H3K27ac #1 (1:2)



Overall Results for sample 6 : 5: Mouse H3K27ac #1 (1:2)

Number of peaks found: 13 Corr. Area 1: 656.1
 Noise: 0.6

Peak table for sample 6 : 5: Mouse H3K27ac #1 (1:2)

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	694	4.45	9.7		89.97
3	748	5.88	11.9		90.81
4	828	7.80	14.3		91.86
5	991	5.42	8.3		94.02
6	1,212	7.10	8.9		95.55
7	1,347	7.01	7.9		96.45
8	1,545	5.06	5.0		97.77
9	5,611	2.93	0.8		107.62
10	8,426	4.54	0.8		110.94
11	10,380	75.00	10.9	Upper Marker	113.00
12	13,085	0.00	0.0		115.85
13	13,787	0.00	0.0		116.58
14	15,490	0.00	0.0		118.38
15	16,592	0.00	0.0		119.54

Region table for sample 6 : 5: Mouse H3K27ac #1 (1:2)

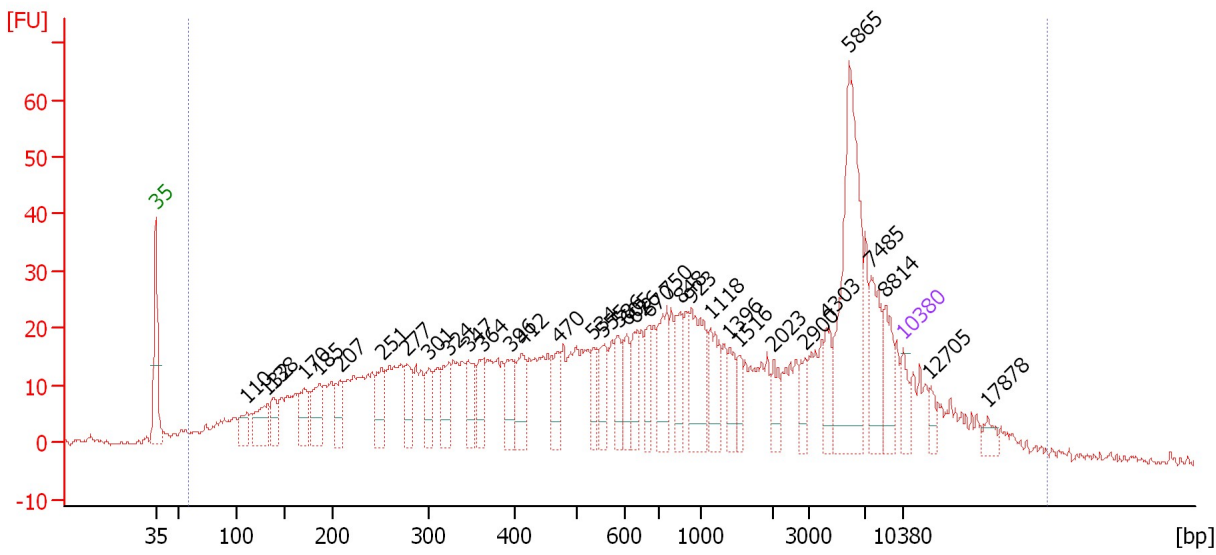
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
75	5,184	27,888	656.1	3,298.1	99	100.0	847.56	Blue

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Electropherogram Summary Continued ...

6: Mouse H3K27ac #2 (1:2)



Overall Results for sample 7 : 6: Mouse H3K27ac #2 (1:2)

Number of peaks found: 35 Corr. Area 1: 1,370.6
 Noise: 0.4

Peak table for sample 7 : 6: Mouse H3K27ac #2 (1:2)

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	110	138.51	1,900.8		51.49
3	132	237.58	2,734.5		53.44
4	138	135.08	1,487.1		53.98
5	170	177.34	1,581.0		56.93
6	185	211.90	1,737.3		58.28
7	207	142.62	1,044.2		60.28
8	251	204.61	1,236.3		64.17
9	277	182.67	998.6		66.52
10	301	143.52	722.9		68.61
11	324	174.51	817.0		70.46
12	347	172.31	752.2		72.36
13	364	168.49	701.9		73.71
14	396	175.61	672.3		76.30
15	412	187.64	689.6		77.35
16	470	142.07	457.6		80.70
17	534	113.94	323.3		83.94
18	555	139.01	379.6		84.89
19	586	142.96	369.8		86.29
20	605	122.43	306.8		87.09
21	626	127.45	308.3		87.79
22	670	135.78	307.2		89.18
23	750	244.26	493.3		90.83
24	848	158.04	282.3		92.13
25	923	319.38	524.0		93.13

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Electropherogram Summary Continued ...

... Peak table for sample 7 : 6: Mouse H3K27ac #2 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,118	192.66	261.1		94.93
27	1,396	103.45	112.3		96.77
28	1,516	73.20	73.2		97.57
29	2,023	85.01	63.7		100.87
30	2,900	72.79	38.0		103.86
31	4,303	100.03	35.2		105.91
32	5,865	762.80	197.1		107.96
33	7,485	201.16	40.7		109.95
34	8,814	144.46	24.8		111.35
35	10,380	75.00	10.9	Upper Marker	113.00
36	12,705	0.00	0.0		115.45
37	17,878	0.00	0.0		120.89

Region table for sample 7 : 6: Mouse H3K27ac #2 (1:2)

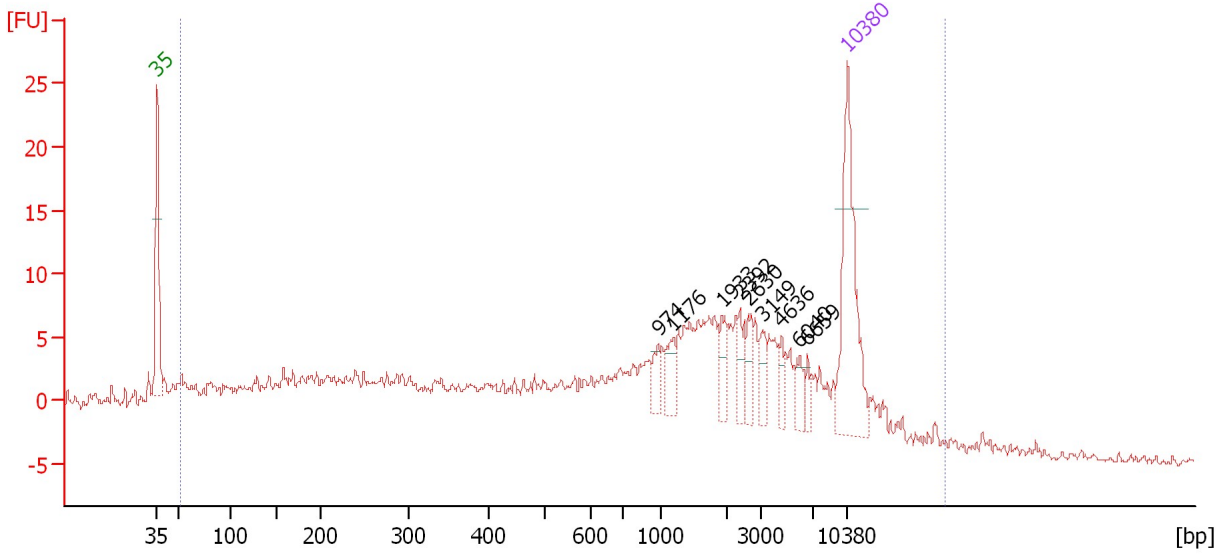
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
57	3,004	23,108	1,370.6	47,839.3	99	100.0	11,149.41	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12_001.xad

Created: 5/12/2015 10:15:12 AM
 Modified: 5/12/2015 10:57:14 AM

Electropherogram Summary Continued ...

13: Human H3K27ac #1



Overall Results for sample 8 : 13: Human H3K27ac #1

Number of peaks found: 9 Corr. Area 1: 334.3
 Noise: 0.4

Peak table for sample 8 : 13: Human H3K27ac #1

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	974	11.20	17.4		93.80
3	1,176	15.35	19.8		95.31
4	1,933	14.87	11.7		100.34
5	2,392	11.36	7.2		102.13
6	2,630	13.12	7.6		102.94
7	3,149	10.76	5.2		104.40
8	4,636	9.63	3.1		106.35
9	6,040	9.99	2.5		108.19
10	6,659	6.63	1.5		109.00
11	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 8 : 13: Human H3K27ac #1

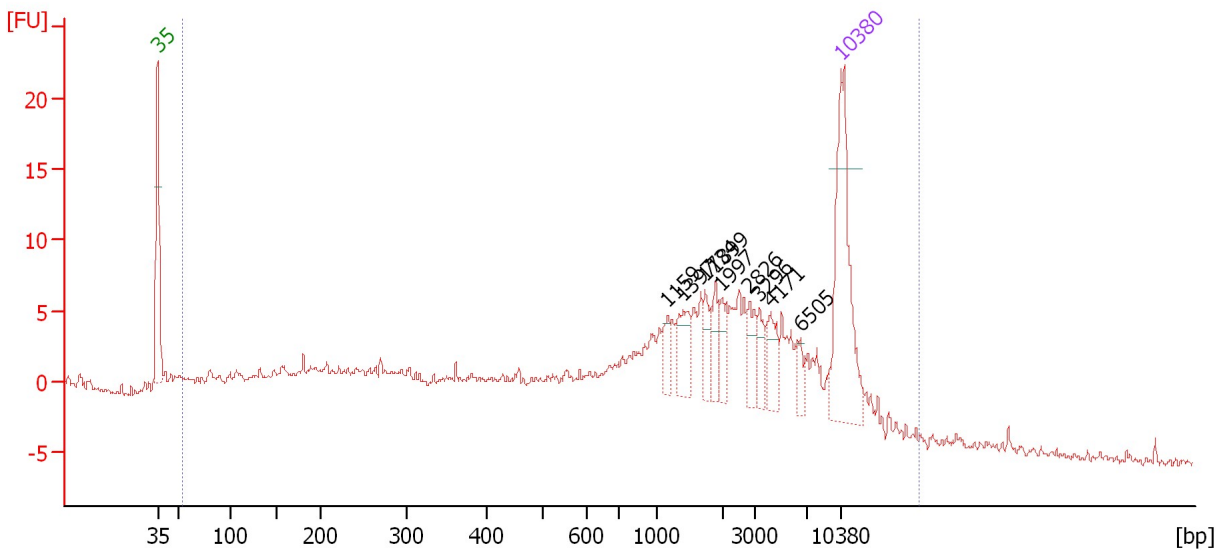
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
51	3,422	19,725	334.3	4,661.1	96	100.0	917.65	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12_001.xad

Created: 5/12/2015 10:15:12 AM
 Modified: 5/12/2015 10:57:14 AM

Electropherogram Summary Continued ...

14: Human H3K27ac #2



Overall Results for sample 9 : 14: Human H3K27ac #2

Number of peaks found: 9 Corr. Area 1: 297.7
 Noise: 0.3

Peak table for sample 9 : 14: Human H3K27ac #2

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	1,159	11.15	14.6		95.20
3	1,397	19.77	21.4		96.78
4	1,734	12.78	11.2		99.02
5	1,899	12.32	9.8		100.11
6	1,997	12.42	9.4		100.77
7	2,826	13.33	7.1		103.61
8	3,296	9.56	4.4		104.59
9	4,171	16.71	6.1		105.74
10	6,505	6.81	1.6		108.80
11	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 9 : 14: Human H3K27ac #2

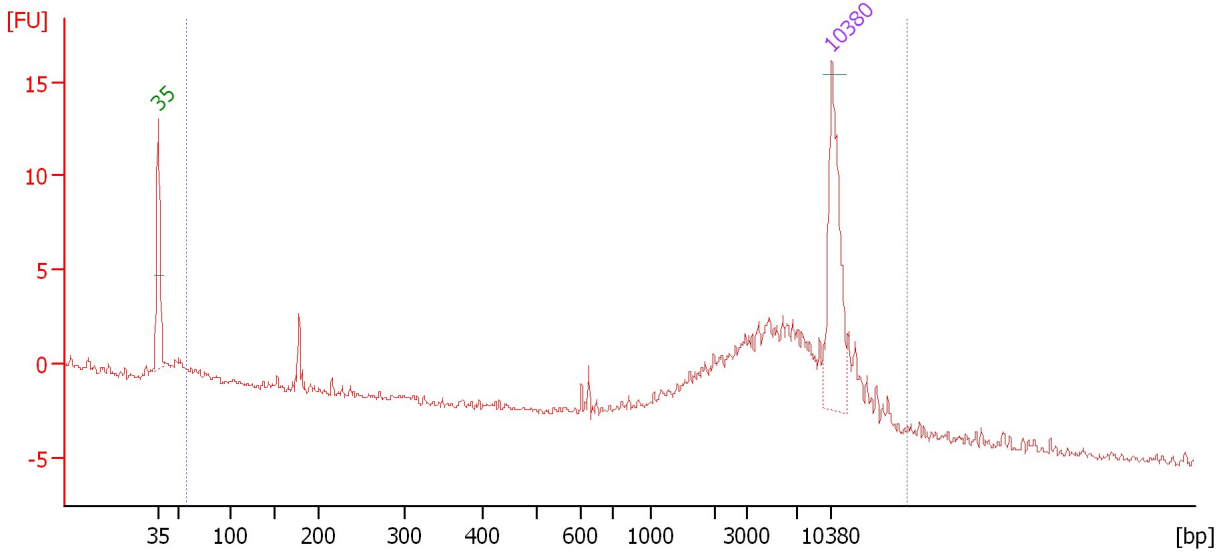
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
52	3,480	17,851	297.7	3,874.2	97	100.0	848.61	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12_001.xad

Created: 5/12/2015 10:15:12 AM
 Modified: 5/12/2015 10:57:14 AM

Electropherogram Summary Continued ...

15: Human H3K4m #1



Overall Results for sample 10 : 15: Human H3K4m #1

Number of peaks found: 0 Corr. Area 1: 77.6
 Noise: 0.1

Peak table for sample 10 : 15: Human H3K4m #1

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	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 10 : 15: Human H3K4m #1

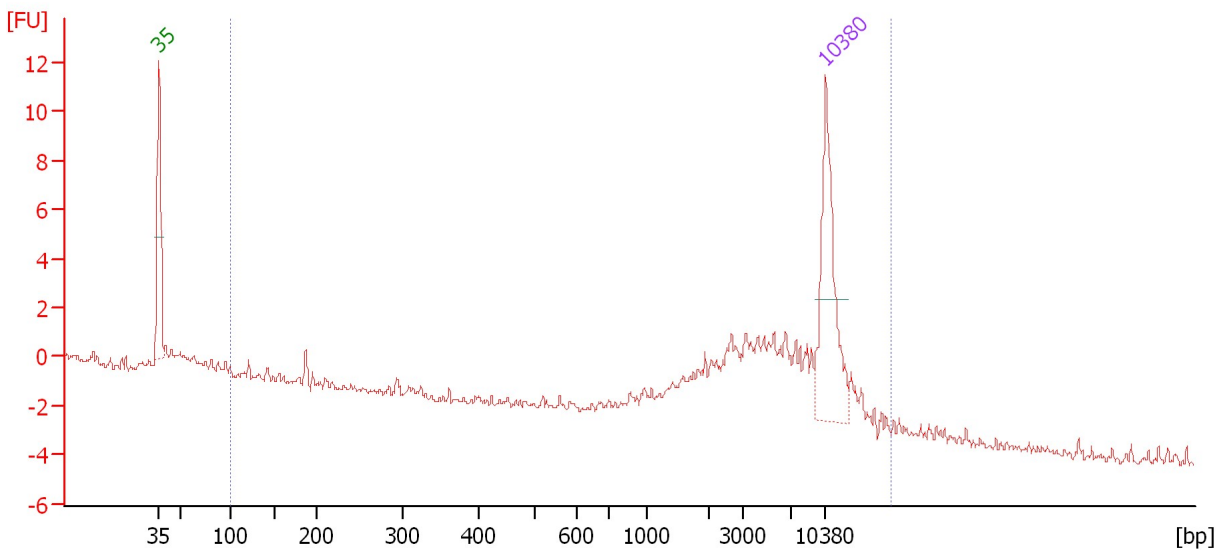
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
58	6,848	17,922	77.6	563.5	90	62.6	299.94	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12_001.xad

Created: 5/12/2015 10:15:12 AM
 Modified: 5/12/2015 10:57:14 AM

Electropherogram Summary Continued ...

16: Human H3K4m #2



Overall Results for sample 11 : 16: Human H3K4m #2

Number of peaks found: 0 Corr. Area 1: 35.9
 Noise: 0.2

Peak table for sample 11 : 16: Human H3K4m #2

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	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 16: Human H3K4m #2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
100	6,949	16,915	35.9	126.0	90	55.8	154.86	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12_001.xad

Created: 5/12/2015 10:15:12 AM
Modified: 5/12/2015 10:57:14 AM

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