

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2100 expert\data\2016-06-30\2016-06-30_003_AW.xad

Created: 6/30/2016 3:39:12 PM
Modified: 6/30/2016 4:14:30 PM

Electrophoresis File Run Summary

Instrument Information:

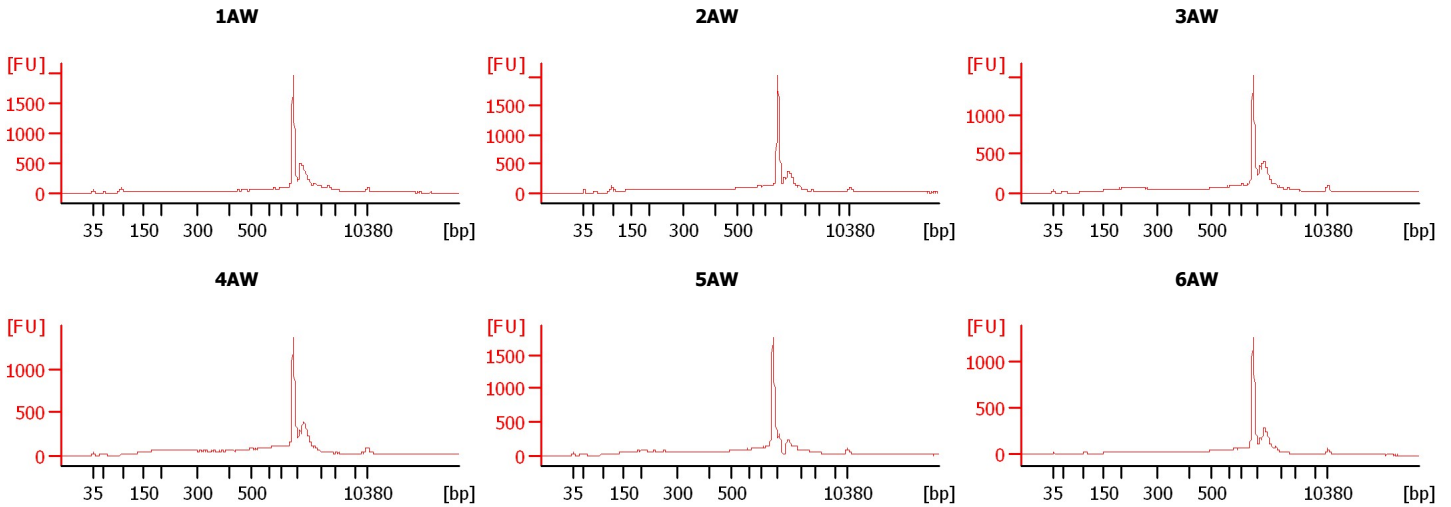
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...oanalyzer\2100 expert\data\2016-06-30\2016-06-30_003_AW.xad

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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1AW		<input type="checkbox"/>	✓			
2AW		<input type="checkbox"/>	✓			
3AW		<input type="checkbox"/>	✓			
4AW		<input type="checkbox"/>	✓			
5AW		<input type="checkbox"/>	✓			
6AW		<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

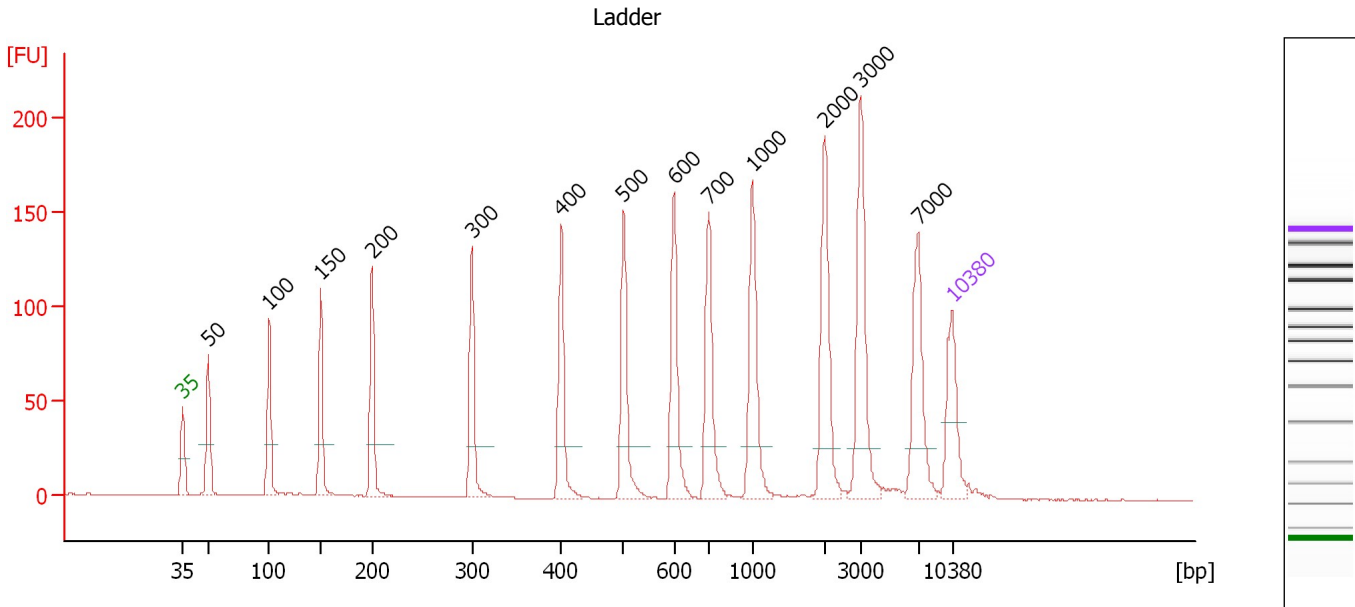
Ladder

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: 0.2

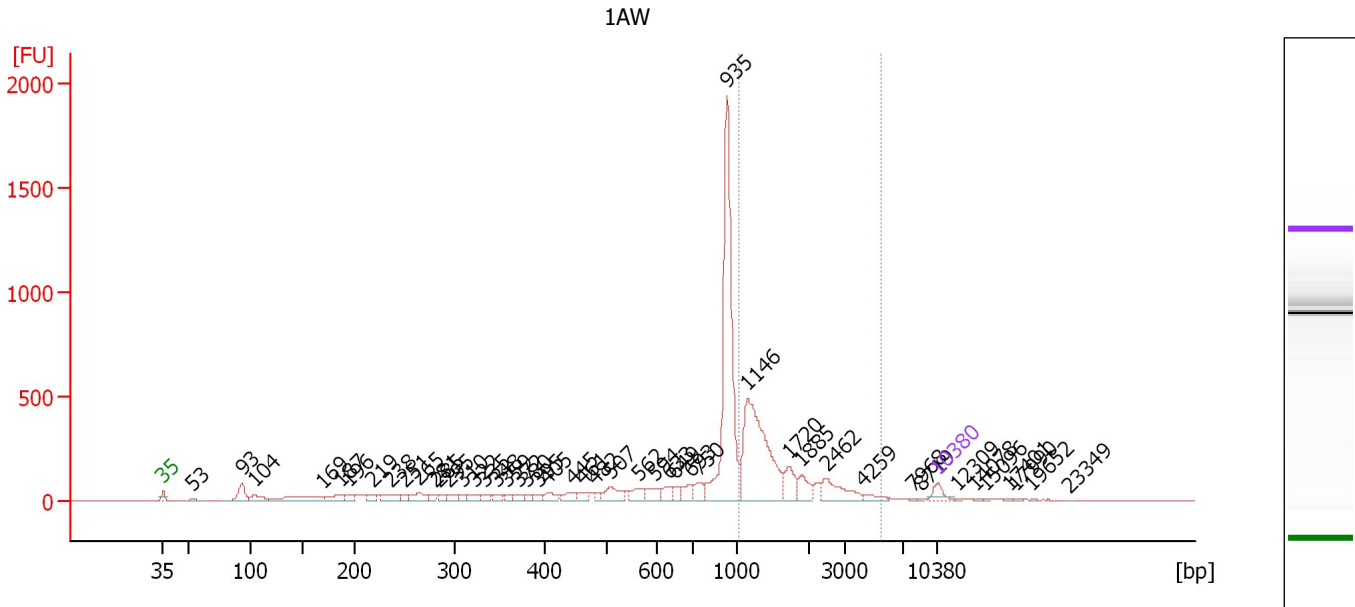
Peak table for Ladder

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	45.33
3	100	150.00	2,272.7	Ladder Peak	50.86
4	150	150.00	1,515.2	Ladder Peak	55.56
5	200	150.00	1,136.4	Ladder Peak	60.22
6	300	150.00	757.6	Ladder Peak	69.29
7	400	150.00	568.2	Ladder Peak	77.44
8	500	150.00	454.5	Ladder Peak	83.12
9	600	150.00	378.8	Ladder Peak	87.68
10	700	150.00	324.7	Ladder Peak	90.83
11	1,000	150.00	227.3	Ladder Peak	94.81
12	2,000	150.00	113.6	Ladder Peak	101.41
13	3,000	150.00	75.8	Ladder Peak	104.66
14	7,000	150.00	32.5	Ladder Peak	109.90
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 1AW

Number of peaks found: 47 Corr. Area 1: 1,931.4
 Noise: 0.2

Peak table for sample 1 : 1AW

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	53	40.62	1,151.9		45.71
3	93	234.34	3,816.3		50.09
4	104	122.32	1,784.7		51.22
5	169	268.51	2,408.6		57.32
6	187	120.54	977.3		59.00
7	196	60.37	467.0		59.84
8	219	58.42	405.0		61.90
9	238	131.92	841.5		63.63
10	251	45.53	275.3		64.81
11	265	123.26	705.6		66.09
12	281	52.52	283.2		67.56
13	285	49.96	265.8		67.91
14	295	64.83	333.5		68.79
15	310	47.72	233.5		70.07
16	322	78.03	366.8		71.11
17	335	53.58	242.3		72.14
18	348	57.80	251.5		73.23
19	359	35.68	150.8		74.06
20	372	57.20	232.7		75.19
21	380	40.70	162.2		75.83
22	395	43.63	167.5		77.02
23	405	76.62	286.3		77.75
24	445	87.83	298.8		80.02
25	461	56.69	186.3		80.90

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Electropherogram Summary Continued ...

... Peak table for sample 1 : 1AW

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	482	36.96	116.2		82.09
27	507	163.40	488.8		83.41
28	562	108.49	292.7		85.93
29	594	115.24	294.0		87.40
30	633	83.41	199.5		88.73
31	649	66.02	154.1		89.22
32	693	104.65	228.9		90.60
33	750	105.49	213.2		91.49
34	935	1,950.35	3,159.9		93.95
35	1,146	1,253.61	1,657.7		95.77
36	1,720	183.26	161.4		99.56
37	1,885	125.53	100.9		100.64
38	2,462	218.04	134.2		102.91
39	4,259	48.72	17.3		106.31
40	7,968	6.65	1.3		110.78
41	8,719	7.44	1.3		111.47
42	10,380	75.00	10.9	Upper Marker	113.00
43	12,309	0.00	0.0		114.77
44	14,078	0.00	0.0		116.40
45	15,096	0.00	0.0		117.33
46	17,401	0.00	0.0		119.45
47	17,990	0.00	0.0		119.99
48	19,652	0.00	0.0		121.52
49	23,349	0.00	0.0		124.91

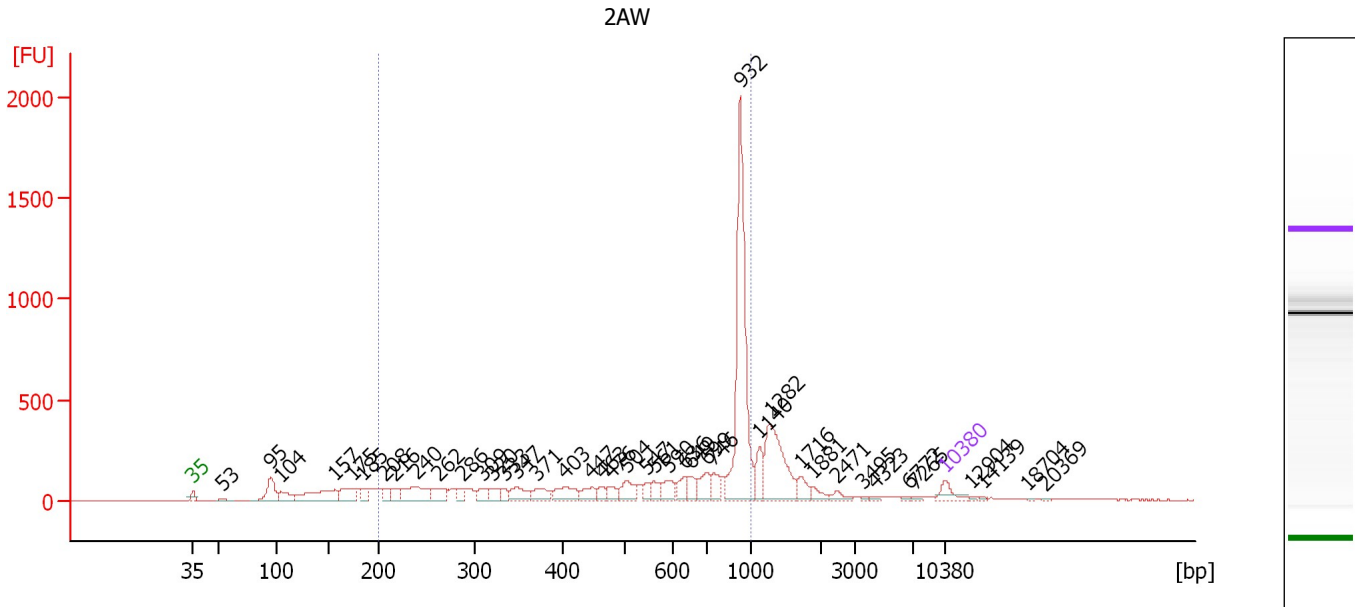
Region table for sample 1 : 1AW

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
1,021	5,438	1,683	1,931.4	1,871.2	1,875.47	32	44.0

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 2AW

Number of peaks found: 42 Corr. Area 1: 4,769.5
 Noise: 0.9

Peak table for sample 2 : 2AW

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	53	34.80	985.9		45.71
3	95	262.77	4,212.6		50.25
4	104	149.42	2,187.2		51.19
5	157	382.58	3,691.0		56.22
6	175	194.70	1,685.2		57.90
7	185	90.68	744.3		58.79
8	208	96.01	700.8		60.91
9	216	86.04	602.8		61.70
10	240	295.95	1,866.9		63.87
11	262	150.20	867.0		65.89
12	286	56.80	301.0		68.01
13	309	91.01	446.1		70.03
14	320	98.27	465.3		70.92
15	333	48.59	221.3		71.96
16	347	155.90	680.3		73.14
17	371	132.30	540.5		75.06
18	403	179.44	674.1		77.63
19	447	105.43	357.6		80.10
20	463	64.61	211.3		81.03
21	476	83.00	264.0		81.77
22	504	152.84	459.4		83.30
23	547	63.75	176.5		85.28
24	561	90.00	242.9		85.92
25	590	107.12	275.3		87.20

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Electropherogram Summary Continued ...

... Peak table for sample 2 : 2AW

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	636	95.49	227.3		88.83
27	649	101.50	237.0		89.22
28	699	144.92	314.1		90.80
29	746	106.24	215.7		91.44
30	932	1,507.93	2,451.0		93.91
31	1,140	157.65	209.5		95.73
32	1,282	571.78	675.6		96.67
33	1,716	91.52	80.8		99.53
34	1,881	55.66	44.8		100.62
35	2,471	41.26	25.3		102.94
36	3,495	7.14	3.1		105.30
37	4,323	10.79	3.8		106.39
38	6,772	9.23	2.1		109.60
39	7,265	12.23	2.6		110.14
40	10,380	75.00	10.9	Upper Marker	113.00
41	12,904	0.00	0.0		115.32
42	14,139	0.00	0.0		116.45
43	18,704	0.00	0.0		120.65
44	20,369	0.00	0.0		122.18

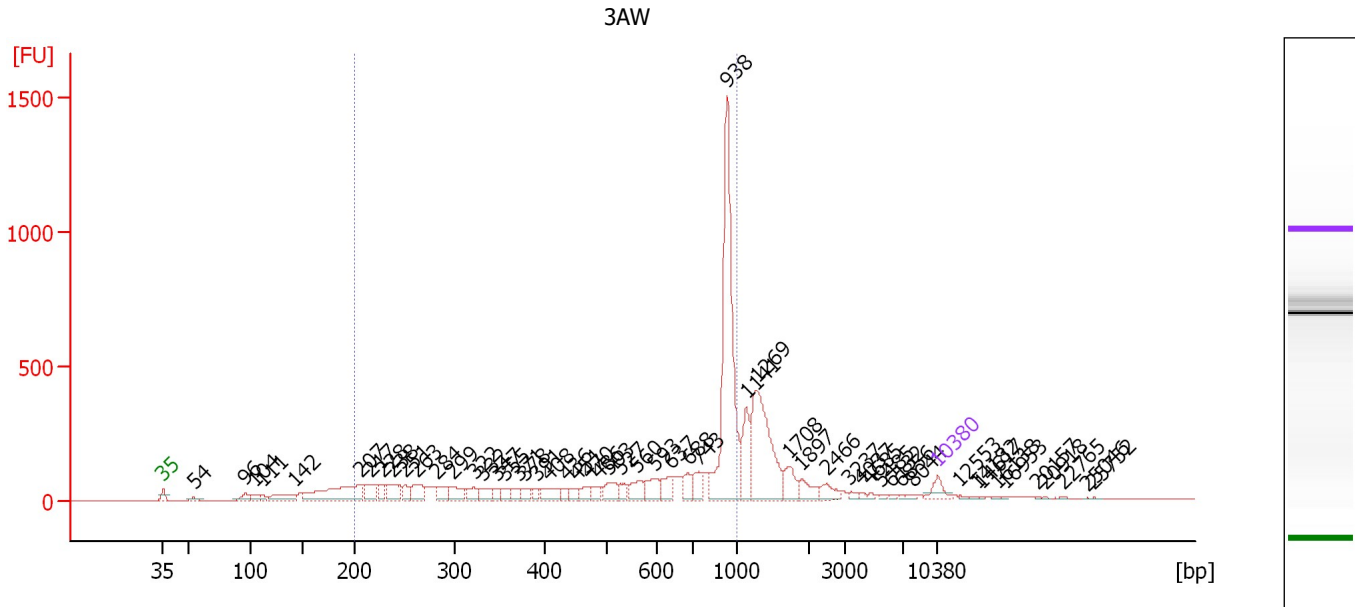
Region table for sample 2 : 2AW

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	663	4,769.5	13,894.1	4,228.27	65	40.4

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 3AW

Number of peaks found: 55 Corr. Area 1: 3,805.3
 Noise: 0.9

Peak table for sample 3 : 3AW

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	54	30.84	869.4		45.74
3	96	75.94	1,196.5		50.43
4	104	63.27	922.0		51.23
5	111	39.25	533.9		51.93
6	142	140.15	1,493.9		54.82
7	207	557.80	4,092.5		60.81
8	217	145.65	1,017.1		61.76
9	228	91.00	604.8		62.76
10	238	174.62	1,112.3		63.66
11	251	87.12	525.8		64.85
12	263	140.27	807.6		65.95
13	284	102.28	546.6		67.80
14	299	128.18	648.6		69.24
15	322	93.67	440.7		71.09
16	332	88.21	402.8		71.89
17	347	51.27	224.2		73.09
18	355	58.87	251.2		73.78
19	371	59.47	242.8		75.08
20	378	58.25	233.6		75.63
21	391	43.60	169.1		76.68
22	408	114.51	425.6		77.88
23	436	51.92	180.5		79.47
24	451	54.98	184.8		80.32
25	470	69.87	225.2		81.42

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Electropherogram Summary Continued ...

... Peak table for sample 3 : 3AW

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	486	61.24	191.0		82.32
27	503	133.47	401.9		83.26
28	527	56.58	162.6		84.36
29	560	121.95	329.9		85.86
30	593	131.42	335.8		87.35
31	637	114.72	272.8		88.85
32	688	103.25	227.4		90.45
33	743	126.04	257.1		91.40
34	938	1,558.30	2,516.3		93.99
35	1,141	263.75	350.3		95.74
36	1,269	775.90	926.2		96.59
37	1,708	125.69	111.5		99.48
38	1,897	92.67	74.0		100.73
39	2,466	75.72	46.5		102.92
40	3,237	22.72	10.6		104.97
41	4,037	13.31	5.0		106.01
42	4,685	11.97	3.9		106.86
43	5,485	11.32	3.1		107.91
44	6,132	11.75	2.9		108.76
45	6,856	8.58	1.9		109.71
46	8,044	13.57	2.6		110.85
47	10,380	75.00	10.9	Upper Marker	113.00
48	12,553	0.00	0.0		115.00
49	14,182	0.00	0.0		116.49
50	14,617	0.00	0.0		116.89
51	16,138	0.00	0.0		118.29
52	16,953	0.00	0.0		119.04
53	20,157	0.00	0.0		121.98
54	20,918	0.00	0.0		122.68
55	22,765	0.00	0.0		124.38
56	25,046	0.00	0.0		126.47
57	25,752	0.00	0.0		127.12

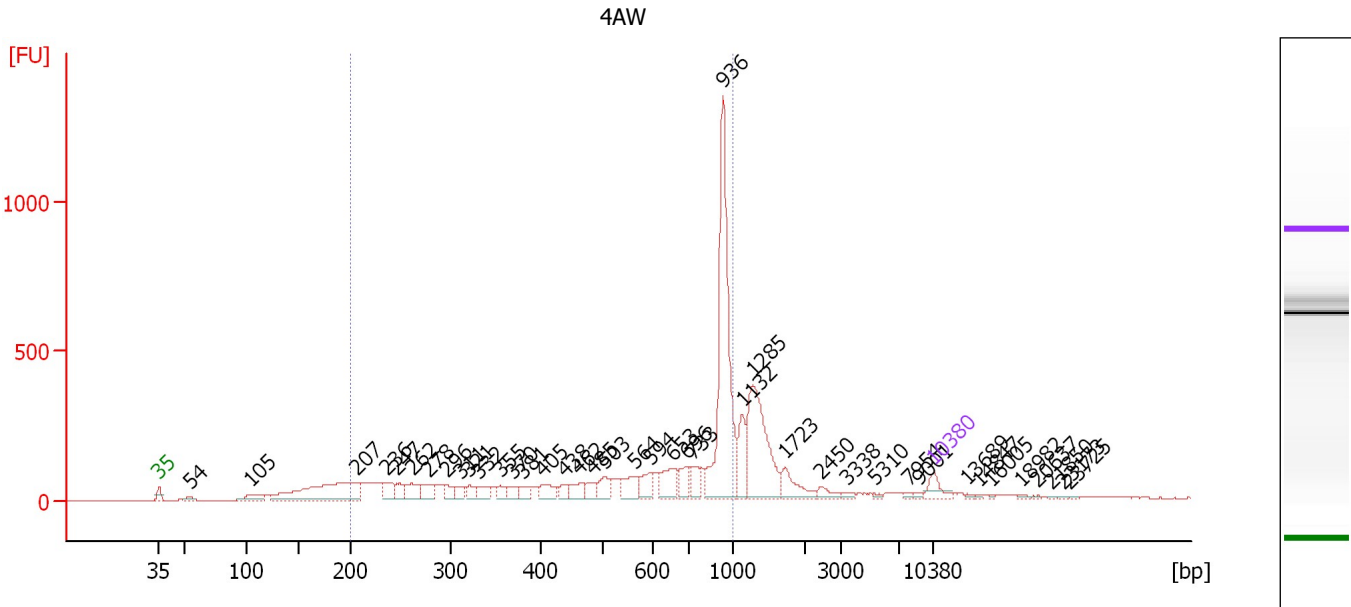
Region table for sample 3 : 3AW

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	656	3,805.3	14,809.1	4,361.69	62	41.8

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 4AW

Number of peaks found: 41 Corr. Area 1: 3,832.7
 Noise: 1.3

Peak table for sample 4 : 4AW

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	54	30.75	860.6		45.79
3	105	94.81	1,371.2		51.31
4	207	721.07	5,285.5		60.83
5	236	114.01	731.0		63.51
6	247	93.53	573.9		64.48
7	262	147.46	852.8		65.84
8	278	105.16	572.8		67.31
9	296	72.17	369.4		68.93
10	311	72.15	351.4		70.20
11	321	67.43	318.2		71.01
12	332	85.50	389.9		71.92
13	355	60.84	259.5		73.80
14	370	63.31	259.1		75.01
15	381	63.18	251.4		75.87
16	405	110.91	414.6		77.75
17	438	63.86	220.7		79.62
18	462	91.14	298.6		80.99
19	485	74.20	231.9		82.25
20	503	102.20	307.7		83.27
21	564	134.89	362.1		86.05
22	594	115.18	293.6		87.42
23	653	170.44	395.5		89.35
24	696	116.21	252.9		90.71
25	733	105.56	218.2		91.27

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Electropherogram Summary Continued ...

... Peak table for sample 4 : 4AW

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	936	1,299.60	2,104.6		93.96
27	1,132	185.05	247.8		95.68
28	1,285	660.91	779.2		96.69
29	1,723	142.92	125.7		99.58
30	2,450	47.29	29.2		102.87
31	3,338	17.03	7.7		105.10
32	5,310	10.66	3.0		107.68
33	7,954	10.96	2.1		110.77
34	9,001	11.01	1.9		111.73
35	10,380	75.00	10.9	Upper Marker	113.00
36	13,689	0.00	0.0		116.04
37	14,847	0.00	0.0		117.10
38	16,005	0.00	0.0		118.17
39	18,982	0.00	0.0		120.90
40	20,637	0.00	0.0		122.42
41	21,850	0.00	0.0		123.54
42	23,173	0.00	0.0		124.75
43	23,725	0.00	0.0		125.26

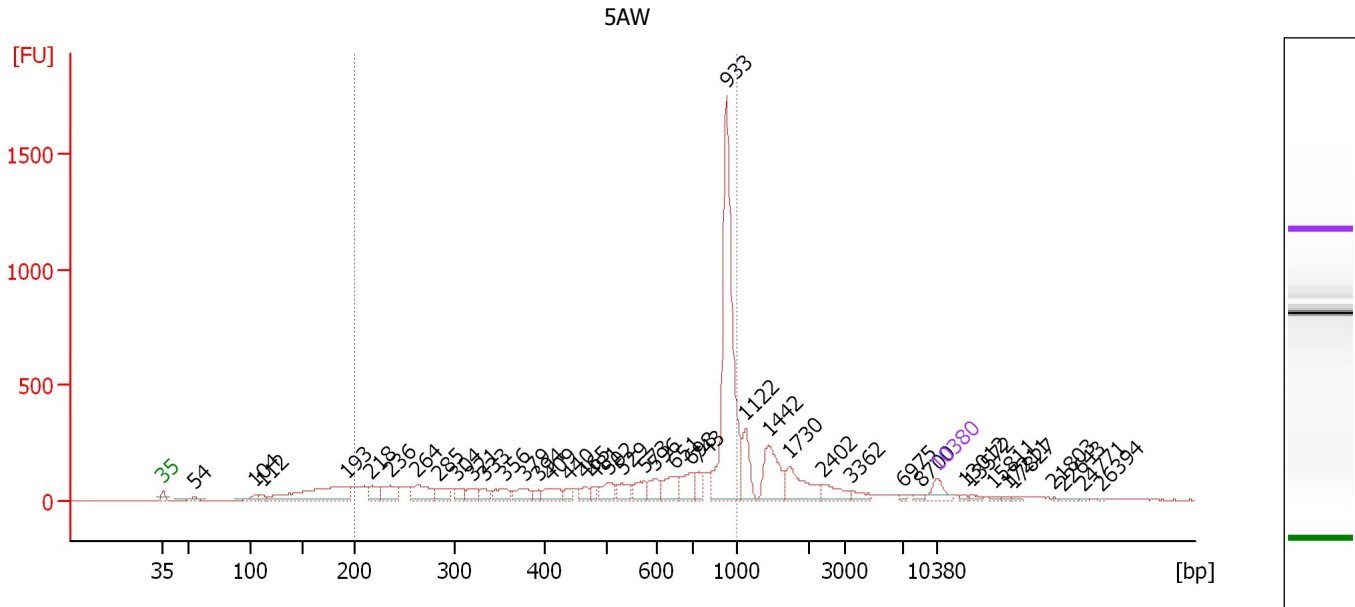
Region table for sample 4 : 4AW

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	643	3,832.7	13,608.7	3,983.60	64	41.9

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 5AW

Number of peaks found: 42 Corr. Area 1: 4,402.3
 Noise: 1.3

Peak table for sample 5 : 5AW

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	54	47.53	1,332.3		45.78
3	104	65.02	942.8		51.28
4	112	40.04	541.1		52.00
5	193	635.07	4,987.7		59.56
6	218	117.87	820.4		61.82
7	236	178.92	1,149.6		63.47
8	264	208.13	1,196.3		65.99
9	285	107.94	574.7		67.89
10	304	66.48	331.7		69.59
11	321	88.54	418.3		70.98
12	333	70.08	318.6		72.01
13	356	105.62	449.4		73.86
14	379	110.51	442.1		75.71
15	394	39.48	151.8		76.95
16	409	109.18	404.1		77.97
17	440	52.32	180.1		79.72
18	465	57.38	187.1		81.11
19	481	42.31	133.3		82.04
20	502	119.23	359.7		83.22
21	529	103.85	297.3		84.45
22	573	107.15	283.2		86.46
23	596	100.20	254.8		87.49
24	651	152.66	355.2		89.29
25	698	147.21	319.4		90.78

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...oanalyzer\2100 expert\data\2016-06-30\2016-06-30_003_AW.xad

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Electropherogram Summary Continued ...

... Peak table for sample 5 : 5AW

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	743	93.93	191.6		91.40
27	933	1,487.74	2,416.4		93.92
28	1,122	189.90	256.4		95.62
29	1,442	277.40	291.5		97.72
30	1,730	217.86	190.8		99.63
31	2,402	93.91	59.2		102.71
32	3,362	40.90	18.4		105.13
33	6,975	11.04	2.4		109.86
34	8,700	13.06	2.3		111.46
35	10,380	75.00	10.9	Upper Marker	113.00
36	13,012	0.00	0.0		115.42
37	13,572	0.00	0.0		115.93
38	15,811	0.00	0.0		117.99
39	17,211	0.00	0.0		119.27
40	17,827	0.00	0.0		119.84
41	21,803	0.00	0.0		123.49
42	22,643	0.00	0.0		124.26
43	24,771	0.00	0.0		126.22
44	26,394	0.00	0.0		127.71

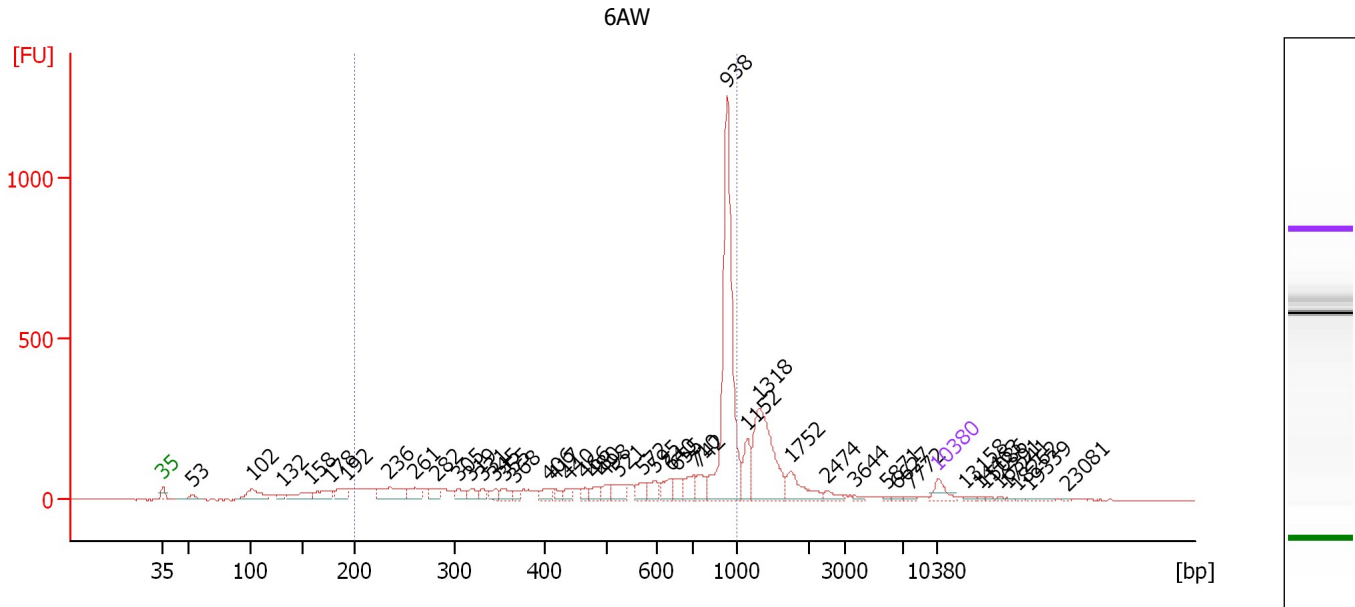
Region table for sample 5 : 5AW

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	663	4,402.3	13,316.7	3,993.90	66	40.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...oanalyzer\2100 expert\data\2016-06-30\2016-06-30_003_AW.xad

Created: 6/30/2016 3:39:12 PM
 Modified: 6/30/2016 4:14:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 6AW

Number of peaks found: 45 Corr. Area 1: 2,813.0
 Noise: 0.9

Peak table for sample 6 : 6AW

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	53	54.14	1,535.2		45.71
3	102	202.79	3,020.5		51.02
4	132	37.40	430.6		53.83
5	158	150.30	1,444.0		56.28
6	178	144.92	1,230.9		58.21
7	192	134.46	1,059.0		59.51
8	236	260.66	1,674.9		63.47
9	261	123.06	714.2		65.76
10	282	90.59	487.2		67.64
11	305	68.79	341.5		69.72
12	319	67.28	319.2		70.86
13	331	57.90	264.7		71.85
14	345	59.71	262.3		72.95
15	355	69.11	294.9		73.78
16	368	42.39	174.6		74.82
17	406	79.12	295.1		77.79
18	417	40.74	148.0		78.42
19	440	53.01	182.5		79.72
20	466	55.11	179.3		81.18
21	480	69.12	218.0		82.01
22	498	63.72	193.9		83.00
23	521	120.20	349.3		84.09
24	572	89.35	236.8		86.39
25	595	90.55	230.8		87.43

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...oanalyzer\2100 expert\data\2016-06-30\2016-06-30_003_AW.xad

Created: 6/30/2016 3:39:12 PM
 Modified: 6/30/2016 4:14:30 PM

Electropherogram Summary Continued ...

... Peak table for sample 6 : 6AW

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	640	96.82	229.2		88.94
27	655	91.24	211.1		89.41
28	710	116.19	247.8		90.97
29	742	102.97	210.3		91.39
30	938	1,574.59	2,542.8		93.99
31	1,152	175.79	231.2		95.81
32	1,318	674.85	775.8		96.91
33	1,752	173.08	149.7		99.77
34	2,474	44.77	27.4		102.95
35	3,644	14.61	6.1		105.50
36	5,871	7.32	1.9		108.42
37	6,627	11.86	2.7		109.41
38	7,772	12.07	2.4		110.60
39	10,380	75.00	10.9	Upper Marker	113.00
40	13,158	0.00	0.0		115.55
41	14,463	0.00	0.0		116.75
42	15,086	0.00	0.0		117.32
43	16,391	0.00	0.0		118.52
44	17,241	0.00	0.0		119.30
45	18,262	0.00	0.0		120.24
46	19,339	0.00	0.0		121.23
47	23,081	0.00	0.0		124.67

Region table for sample 6 : 6AW

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	681	2,813.0	12,545.7	3,924.93	64	39.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2100 expert\data\2016-06-30\2016-06-30_003_AW.xad

Created: 6/30/2016 3:39:12 PM
Modified: 6/30/2016 4:14:30 PM

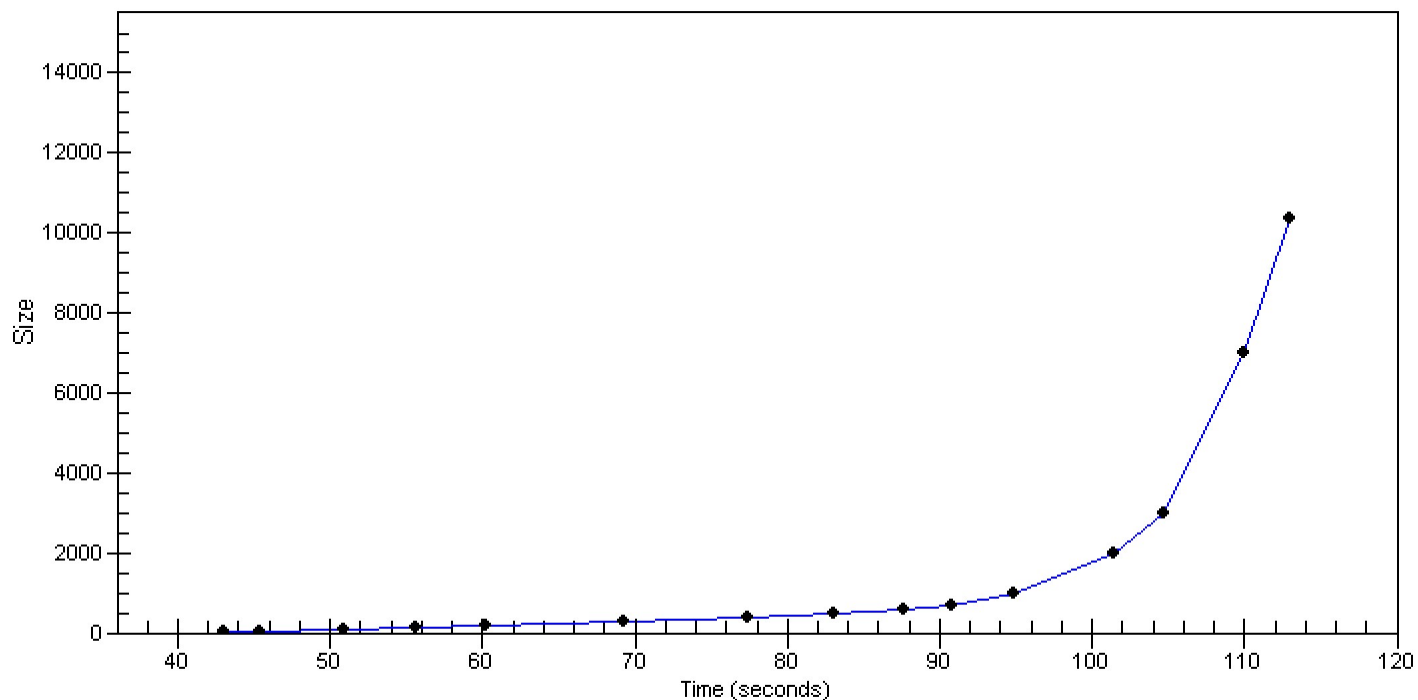
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2100 expert\data\2016-06-30\2016-06-30_003_AW.xad

Created: 6/30/2016 3:39:12 PM
Modified: 6/30/2016 4:14:30 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...oanalyzer\2100 expert\data\2016-06-30\2016-06-30_003_AW.xad

Created: 6/30/2016 3:39:12 PM
 Modified: 6/30/2016 4:14:30 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		6/30/2016 4:09:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-30\2016-06-30_003.xad)		Instrument	Run		6/30/2016 3:39:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/30/2016 3:39:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/30/2016 3:39:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/30/2016 3:39:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/30/2016 3:39:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/30/2016 3:39:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/30/2016 3:39:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1