

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...2100 expert\data\2018-06-11\2018-06-11_003_LibPrep05_06.xad

Created: 6/11/2018 4:22:26 PM
Modified: 6/11/2018 4:50:14 PM

Electrophoresis File Run Summary

Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

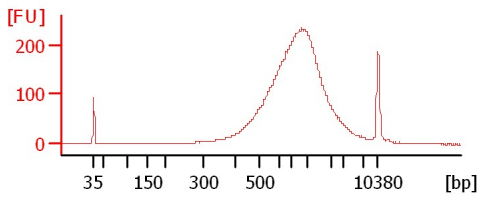
Assay Information:

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

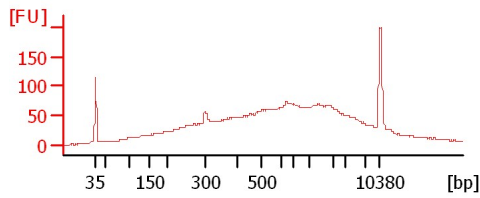
Chip Information:

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

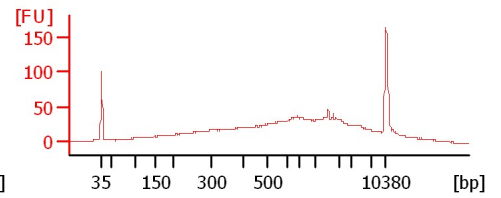
gDNA SS Soni



cDNA 1 30 sec



cDNA 2 30 sec



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
gDNA SS Soni		<input type="checkbox"/>	✓			
cDNA 1 30 sec		<input type="checkbox"/>	✓			
cDNA 2 30 sec		<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

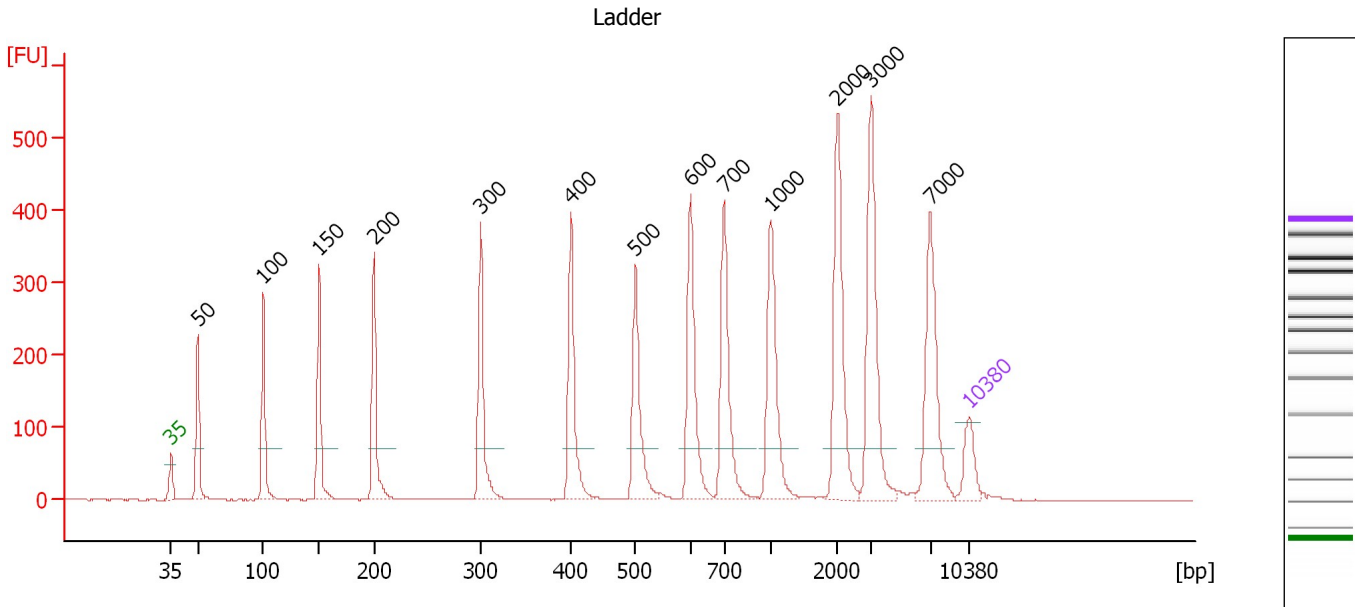
Ladder

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: 0.5

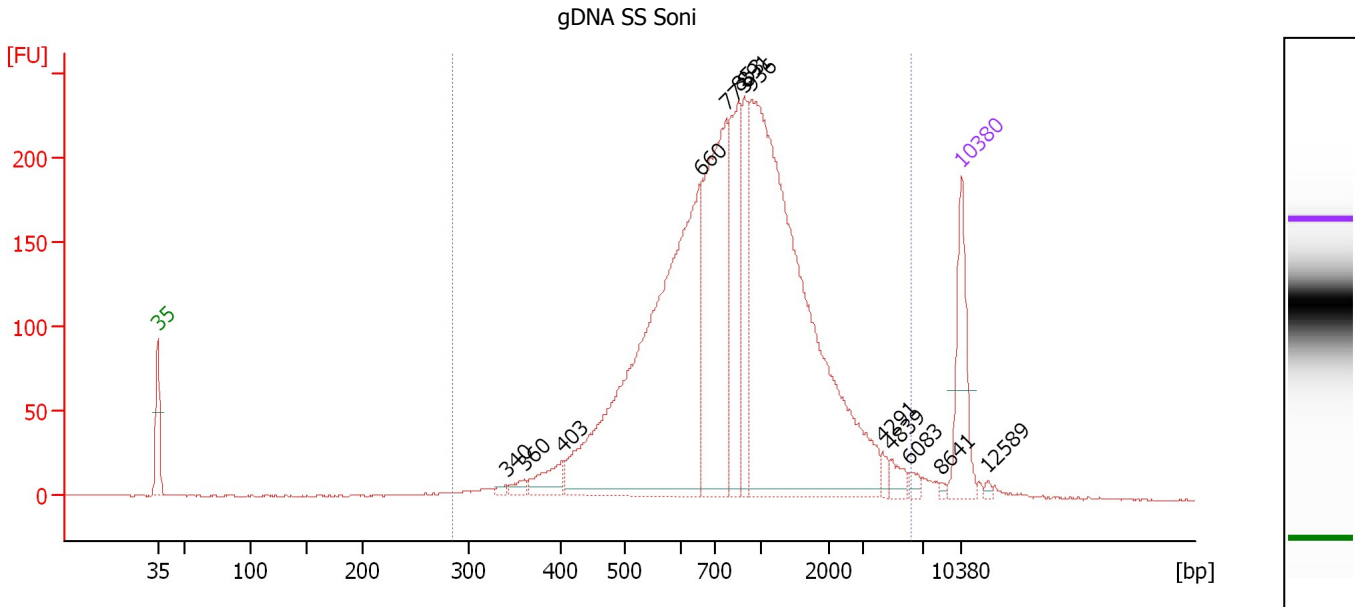
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	51.09
4	150	150.00	1,515.2	Ladder Peak	56.00
5	200	150.00	1,136.4	Ladder Peak	60.82
6	300	150.00	757.6	Ladder Peak	70.17
7	400	150.00	568.2	Ladder Peak	78.07
8	500	150.00	454.5	Ladder Peak	83.73
9	600	150.00	378.8	Ladder Peak	88.54
10	700	150.00	324.7	Ladder Peak	91.49
11	1,000	150.00	227.3	Ladder Peak	95.61
12	2,000	150.00	113.6	Ladder Peak	101.45
13	3,000	150.00	75.8	Ladder Peak	104.40
14	7,000	150.00	32.5	Ladder Peak	109.59
15	10,380	75.00	10.9	Upper Marker	113.00

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 Modified: 6/11/2018 4:50:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : gDNA SS Soni

Number of peaks found: 13 Corr. Area 1: 3,859.4
 Noise: 0.3

Peak table for sample 1 : gDNA SS Soni

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	340	4.74	21.1		73.33
3	360	10.75	45.2		74.94
4	403	35.08	132.1		78.21
5	660	687.77	1,578.6		90.32
6	773	307.22	601.8		92.50
7	853	149.83	266.1		93.59
8	891	85.00	144.5		94.11
9	936	769.47	1,245.4		94.73
10	4,291	7.77	2.7		106.07
11	4,839	12.86	4.0		106.78
12	6,083	7.45	1.9		108.40
13	8,641	2.67	0.5		111.24
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,589	0.00	0.0		115.23

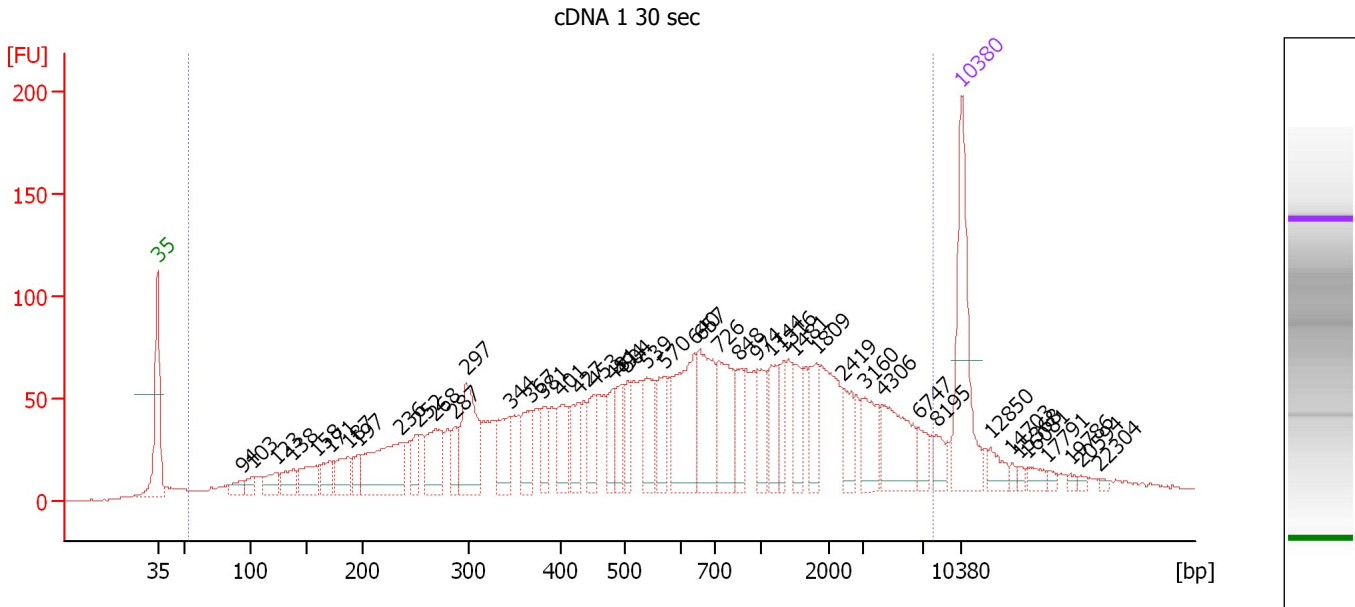
Region table for sample 1 : gDNA SS Soni

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
284	6,227	1,062	2,086.48	3,859.4	4,215.7	98	73.8

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Created: 6/11/2018 4:22:26 PM
 Modified: 6/11/2018 4:50:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : cDNA 1 30 sec

Number of peaks found: 46 Corr. Area 1: 3,189.9
 Noise: 0.5

Peak table for sample 2 : cDNA 1 30 sec

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	94	14.27	230.3		50.39
3	103	11.59	171.2		51.35
4	123	20.36	250.5		53.36
5	138	21.75	239.1		54.80
6	158	34.30	327.9		56.82
7	171	24.03	213.0		58.02
8	187	29.35	237.9		59.55
9	197	16.85	129.4		60.56
10	236	87.05	559.5		64.16
11	252	20.46	123.2		65.65
12	268	47.16	266.6		67.18
13	287	18.58	98.3		68.91
14	297	79.35	404.4		69.92
15	344	38.25	168.4		73.66
16	367	32.27	133.1		75.48
17	381	25.42	101.0		76.58
18	401	34.85	131.7		78.12
19	427	29.13	103.3		79.61
20	453	24.63	82.5		81.05
21	481	25.44	80.1		82.68
22	494	23.26	71.3		83.40
23	504	22.07	66.3		83.93
24	539	36.28	102.0		85.60
25	570	28.64	76.1		87.09

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Created: 6/11/2018 4:22:26 PM
 Modified: 6/11/2018 4:50:14 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : cDNA 1 30 sec

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	640	72.95	172.6		89.73
27	657	63.40	146.3		90.21
28	726	57.30	119.7		91.84
29	848	24.19	43.2		93.52
30	974	29.25	45.5		95.25
31	1,144	24.76	32.8		96.45
32	1,316	19.19	22.1		97.46
33	1,481	22.08	22.6		98.41
34	1,809	24.59	20.6		100.33
35	2,419	19.47	12.2		102.68
36	3,160	27.89	13.4		104.60
37	4,306	45.69	16.1		106.09
38	6,747	11.76	2.6		109.26
39	8,195	10.55	2.0		110.79
40	10,380	75.00	10.9	Upper Marker	113.00
41	12,850	0.00	0.0		115.49
42	14,703	0.00	0.0		117.37
43	15,368	0.00	0.0		118.04
44	16,081	0.00	0.0		118.76
45	17,791	0.00	0.0		120.48
46	19,786	0.00	0.0		122.50
47	20,594	0.00	0.0		123.32
48	22,304	0.00	0.0		125.04

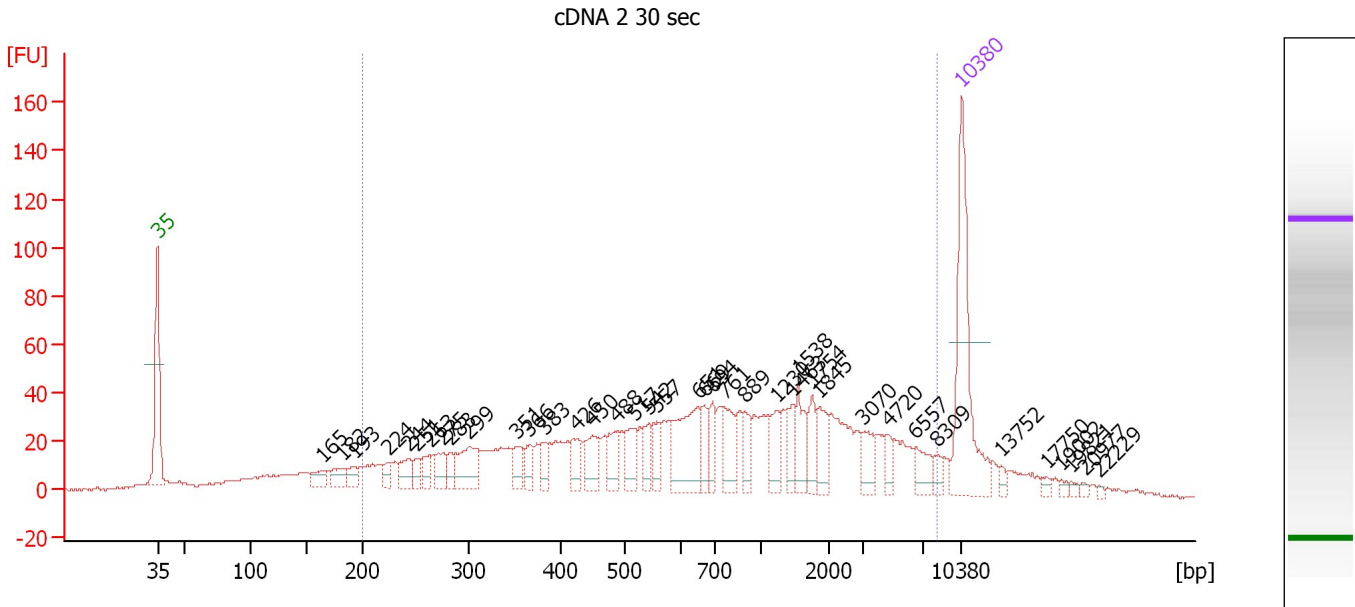
Region table for sample 2 : cDNA 1 30 sec

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
53	7,871	1,157	1,698.65	3,189.9	7,689.3	94	100.0

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 Modified: 6/11/2018 4:50:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : cDNA 2 30 sec

Number of peaks found: 39 Corr. Area 1: 1,486.1
 Noise: 0.6

Peak table for sample 3 : cDNA 2 30 sec

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	165	12.69	116.9		57.40
3	182	14.26	118.5		59.10
4	193	10.70	83.9		60.17
5	224	8.45	57.1		63.09
6	244	16.23	101.0		64.89
7	251	8.87	53.4		65.62
8	263	12.22	70.3		66.74
9	275	16.53	91.0		67.86
10	283	11.28	60.5		68.54
11	299	33.55	170.2		70.05
12	351	14.61	63.0		74.23
13	366	13.07	54.2		75.35
14	383	13.46	53.2		76.76
15	426	16.94	60.3		79.53
16	450	23.10	77.8		80.89
17	488	18.44	57.3		83.03
18	517	20.06	58.8		84.54
19	542	14.02	39.2		85.76
20	557	15.22	41.4		86.49
21	651	51.89	120.8		90.04
22	669	14.49	32.8		90.57
23	694	14.70	32.1		91.30
24	761	24.91	49.6		92.33
25	889	13.80	23.5		94.08

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Electropherogram Summary Continued ...

... Peak table for sample 3 : cDNA 2 30 sec

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,230	17.80	21.9		96.95
27	1,463	13.15	13.6		98.31
28	1,538	19.46	19.2		98.75
29	1,754	14.40	12.4		100.01
30	1,845	15.85	13.0		100.55
31	3,070	13.18	6.5		104.49
32	4,720	7.83	2.5		106.63
33	6,557	12.15	2.8		109.01
34	8,309	5.37	1.0		110.91
35	10,380	75.00	10.9	Upper Marker	113.00
36	13,752	0.00	0.0		116.41
37	17,750	0.00	0.0		120.44
38	19,002	0.00	0.0		121.71
39	19,821	0.00	0.0		122.53
40	20,977	0.00	0.0		123.70
41	22,229	0.00	0.0		124.97

Region table for sample 3 : cDNA 2 30 sec

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	8,219	1,367	857.14	1,486.1	2,598.3	82	100.0

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Gel Image