

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad

Created: 8/12/2019 3:01:52 PM
Modified: 8/12/2019 3:50:35 PM

Electrophoresis File Run Summary

Instrument Information:

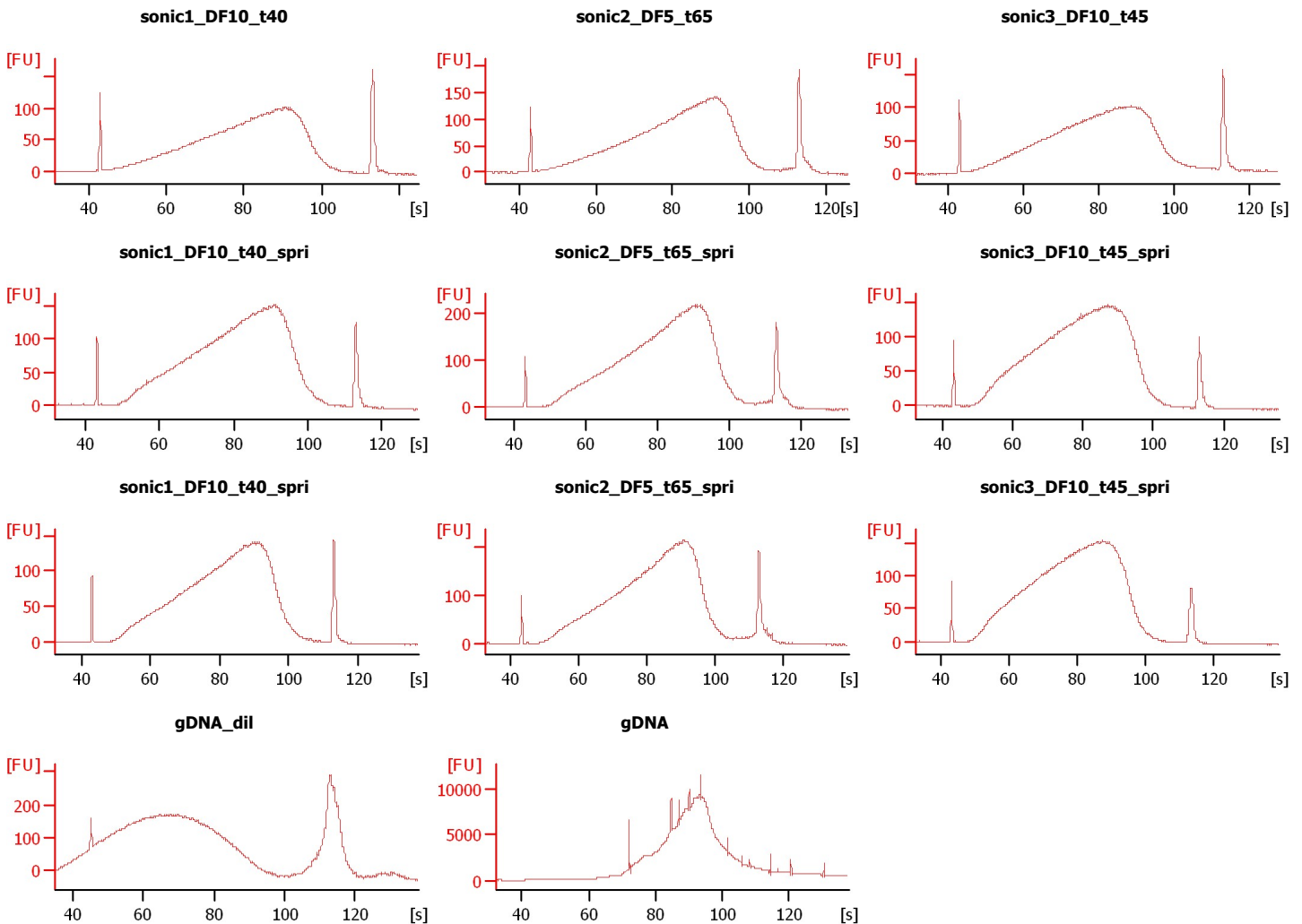
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sonic1_DF10_t40		<input type="checkbox"/>	✓			
sonic2_DF5_t65		<input type="checkbox"/>	✓			
sonic3_DF10_t45		<input type="checkbox"/>	✓			
sonic1_DF10_t40_spri		<input type="checkbox"/>	✓			
sonic2_DF5_t65_spri		<input type="checkbox"/>	✓			
sonic3_DF10_t45_spri		<input type="checkbox"/>	✓			
sonic1_DF10_t40_spri		<input type="checkbox"/>	✓			
sonic2_DF5_t65_spri		<input type="checkbox"/>	✓			
sonic3_DF10_t45_spri		<input type="checkbox"/>	✓			
gDNA_dil		<input type="checkbox"/>	✓			
gDNA		<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

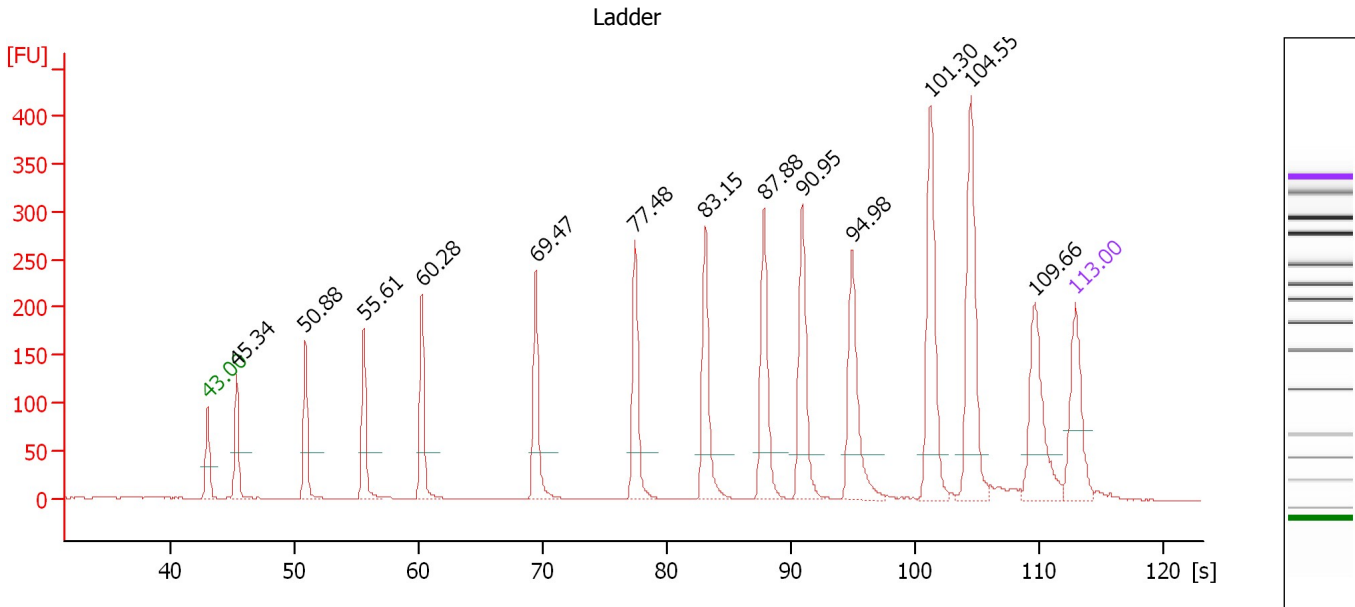
Ladder

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

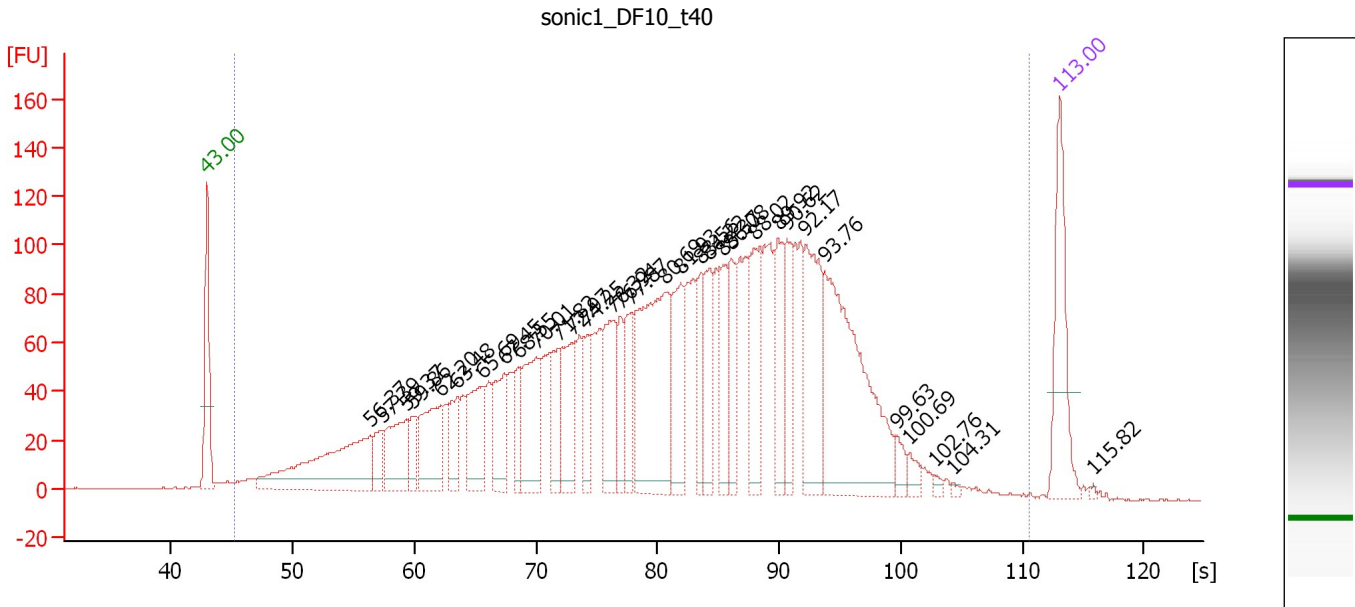
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	50.88
4	150	150.00	1,515.2	Ladder Peak	55.61
5	200	150.00	1,136.4	Ladder Peak	60.28
6	300	150.00	757.6	Ladder Peak	69.47
7	400	150.00	568.2	Ladder Peak	77.48
8	500	150.00	454.5	Ladder Peak	83.15
9	600	150.00	378.8	Ladder Peak	87.88
10	700	150.00	324.7	Ladder Peak	90.95
11	1,000	150.00	227.3	Ladder Peak	94.98
12	2,000	150.00	113.6	Ladder Peak	101.30
13	3,000	150.00	75.8	Ladder Peak	104.55
14	7,000	150.00	32.5	Ladder Peak	109.66
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : sonic1_DF10_t40

Number of peaks found: 32 Corr. Area 1: 4,025.0
 Noise: 0.3

Peak table for sample 1 : sonic1_DF10_t40

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	158	216.32	2,071.7		56.37
3	169	35.95	322.2		57.39
4	190	86.08	685.4		59.37
5	195	31.27	242.4		59.86
6	221	97.69	670.2		62.20
7	235	50.97	328.9		63.48
8	259	87.43	511.8		65.69
9	278	72.15	393.2		67.45
10	290	38.20	199.5		68.55
11	307	96.75	477.8		70.01
12	329	48.64	223.7		71.82
13	344	74.32	327.6		72.97
14	360	44.19	186.1		74.25
15	386	81.20	319.1		76.32
16	393	39.04	150.4		76.94
17	407	54.66	203.6		77.87
18	457	209.78	696.1		80.69
19	478	79.24	251.0		81.93
20	509	44.44	132.4		83.56
21	523	61.35	177.9		84.22
22	547	53.67	148.7		85.37
23	562	50.25	135.5		86.08
24	605	83.09	208.2		88.02
25	666	62.04	141.1		89.92

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Electropherogram Summary Continued ...

... Peak table for sample 1 : sonic1_DF10_t40

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	689	55.55	122.1		90.62
27	791	111.74	214.2		92.17
28	909	230.77	384.7		93.76
29	1,735	11.68	10.2		99.63
30	1,902	10.10	8.0		100.69
31	2,448	3.34	2.1		102.76
32	2,924	2.09	1.1		104.31
33	10,380	75.00	10.9	Upper Marker	113.00
34	13,242	0.00	0.0		115.82

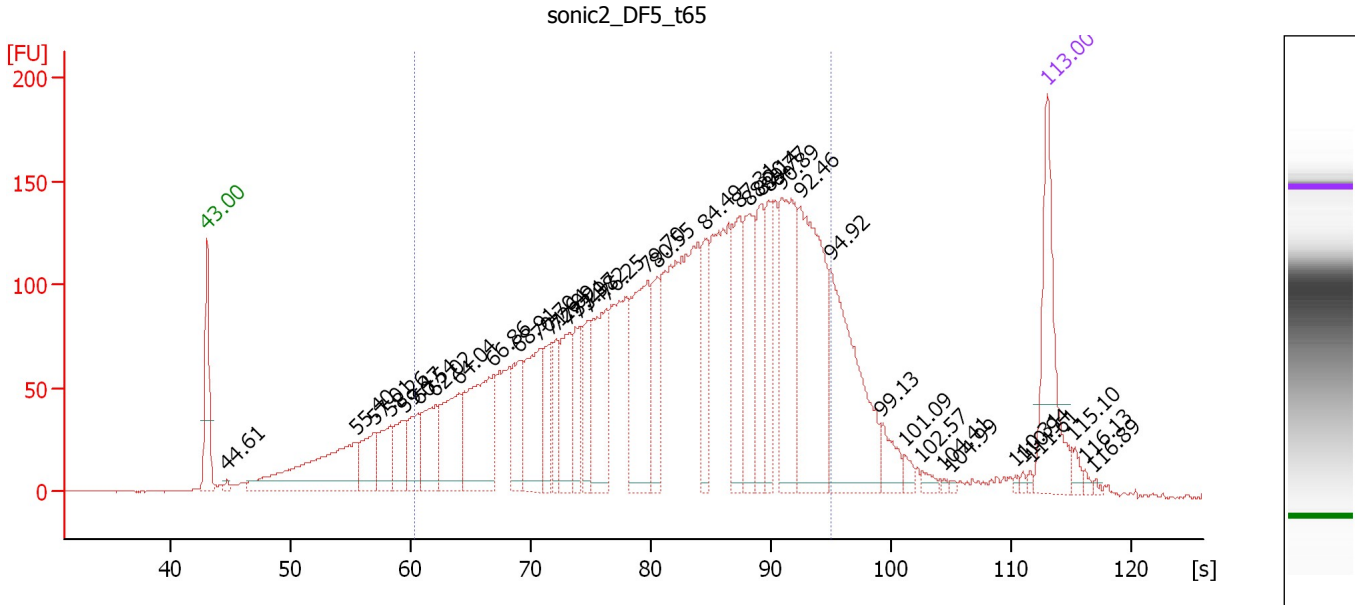
Region table for sample 1 : sonic1_DF10_t40

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
49	7,929	593	2,942.61	4,025.0	14,034.4	99	83.6

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Electropherogram Summary Continued ...



Overall Results for sample 2 : sonic2_DF5_t65

Number of peaks found: 38 Corr. Area 1: 4,187.8
 Noise: 0.3

Peak table for sample 2 : sonic2_DF5_t65

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	45	3.93	131.5		44.61
3	148	164.79	1,689.3		55.40
4	165	50.23	461.3		57.01
5	178	47.00	399.2		58.26
6	191	45.14	357.5		59.47
7	203	43.66	326.1		60.54
8	219	63.30	438.1		62.02
9	241	89.22	561.3		64.04
10	272	134.98	753.1		66.86
11	294	54.38	280.2		68.91
12	315	87.48	420.2		70.70
13	327	38.87	180.0		71.64
14	333	36.97	168.3		72.09
15	347	63.27	276.5		73.21
16	356	43.18	183.7		73.97
17	367	43.74	180.7		74.82
18	385	82.36	324.4		76.25
19	439	117.70	406.1		79.70
20	454	51.86	173.0		80.55
21	528	50.06	143.6		84.49
22	588	72.58	187.0		87.31
23	611	72.66	180.3		88.20
24	641	57.82	136.6		89.14
25	662	45.28	103.7		89.77

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Electropherogram Summary Continued ...

... Peak table for sample 2 : sonic2_DF5_t65

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	698	126.28	274.1		90.89
27	812	168.00	313.4		92.46
28	995	135.45	206.2		94.92
29	1,655	19.66	18.0		99.13
30	1,967	6.35	4.9		101.09
31	2,390	5.31	3.4		102.57
32	2,955	1.48	0.8		104.41
33	3,341	1.58	0.7		104.99
34	7,659	1.69	0.3		110.31
35	8,294	2.02	0.4		110.94
36	8,974	1.91	0.3		111.61
37	10,380	75.00	10.9	Upper Marker	113.00
38	12,512	0.00	0.0		115.10
39	13,555	0.00	0.0		116.13
40	14,326	0.00	0.0		116.89

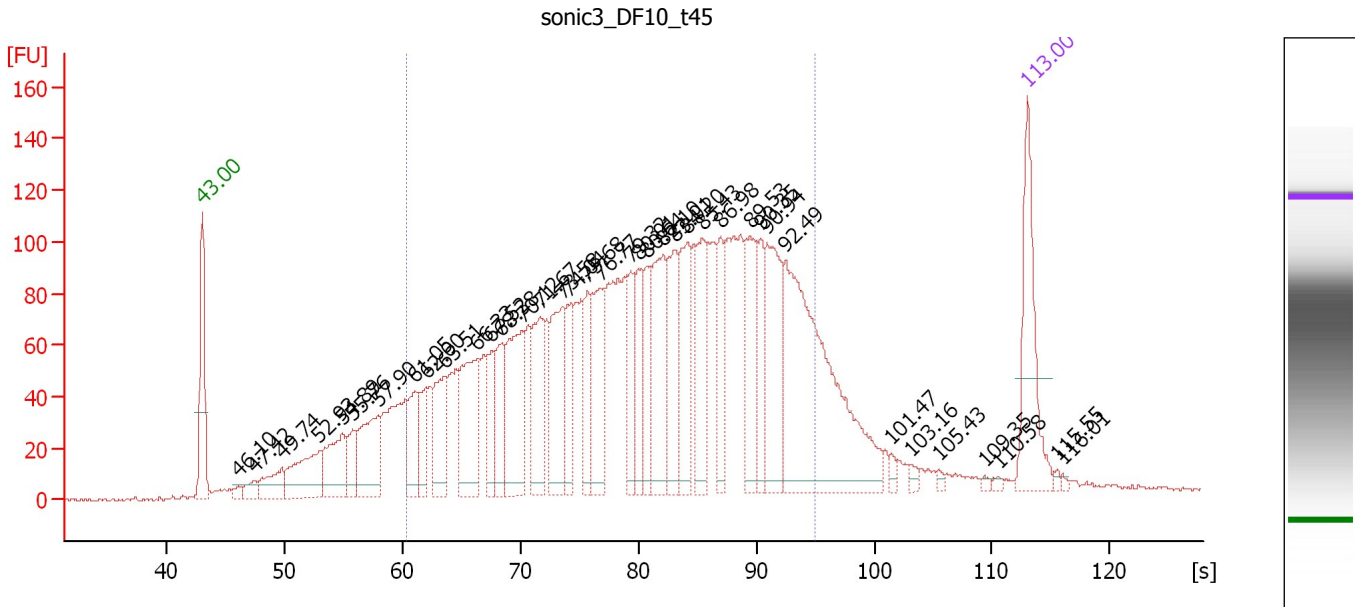
Region table for sample 2 : sonic2_DF5_t65

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	512	2,199.74	4,187.8	8,157.9	80	37.8

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sonic3_DF10_t45

Number of peaks found: 38 Corr. Area 1: 3,429.5
 Noise: 0.6

Peak table for sample 3 : sonic3_DF10_t45

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	7.56	201.6		46.10
3	69	16.29	359.0		47.42
4	90	42.07	710.4		49.74
5	122	87.33	1,087.0		52.93
6	142	77.24	821.4		54.89
7	152	38.12	380.8		55.76
8	175	98.75	857.2		57.90
9	208	52.45	381.5		61.05
10	219	37.33	258.6		62.00
11	235	72.26	465.6		63.51
12	266	109.24	622.5		66.33
13	279	40.00	217.4		67.52
14	288	62.82	330.3		68.38
15	308	111.22	547.0		70.12
16	327	76.34	353.2		71.67
17	351	95.73	412.8		73.58
18	357	54.02	229.3		74.04
19	377	44.20	177.4		75.68
20	391	80.75	312.8		76.77
21	432	48.70	170.6		79.32
22	444	52.32	178.4		80.01
23	456	49.08	163.2		80.64
24	481	102.80	323.5		82.10
25	498	78.92	240.3		83.01

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Electropherogram Summary Continued ...

... Peak table for sample 3 : sonic3 DF10 t45

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	522	82.12	238.3		84.20
27	548	73.29	202.6		85.43
28	581	46.86	122.2		86.98
29	654	82.25	190.6		89.53
30	680	42.29	94.2		90.35
31	700	106.94	231.6		90.94
32	815	287.28	534.3		92.49
33	2,051	4.53	3.3		101.47
34	2,570	4.32	2.5		103.16
35	3,690	2.56	1.0		105.43
36	6,757	1.97	0.4		109.35
37	7,932	2.35	0.4		110.58
38	10,380	75.00	10.9	Upper Marker	113.00
39	12,966	0.00	0.0		115.55
40	13,428	0.00	0.0		116.01

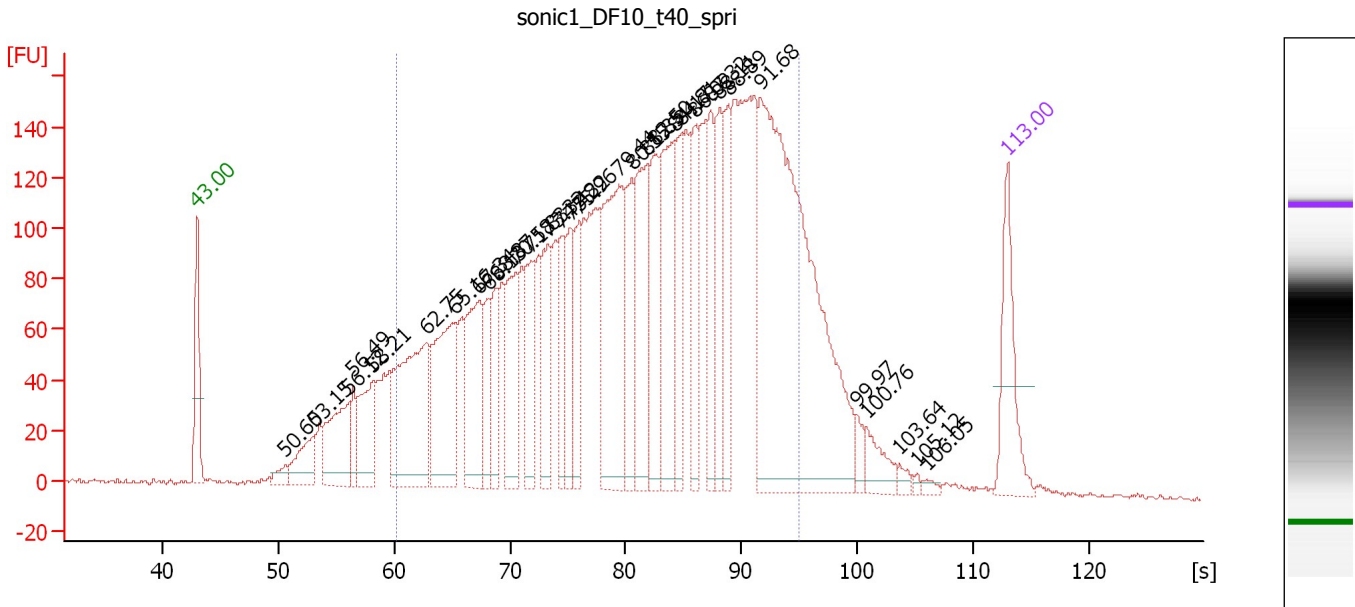
Region table for sample 3 : sonic3 DF10 t45

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	485	2,424.37	3,429.5	9,445.0	 80	38.6

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Electropherogram Summary Continued ...



Overall Results for sample 4 : sonic1_DF10_t40_spr1

Number of peaks found: 32 Corr. Area 1: 4,828.1
 Noise: 1.0

Peak table for sample 4 : sonic1_DF10_t40_spr1

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	97	19.90	309.3		50.60
3	124	69.03	843.3		53.15
4	155	127.38	1,241.2		56.12
5	159	40.63	386.0		56.49
6	178	105.16	896.2		58.21
7	227	256.69	1,714.5		62.75
8	253	201.43	1,205.9		65.16
9	277	150.14	821.8		67.34
10	285	58.61	311.1		68.13
11	293	64.95	335.3		68.87
12	314	118.38	571.4		70.58
13	330	92.50	425.3		71.83
14	348	99.11	431.4		73.32
15	363	70.38	294.2		74.48
16	372	75.70	308.5		75.22
17	381	70.76	281.4		75.96
18	434	242.00	843.9		79.44
19	454	92.05	307.2		80.55
20	477	149.99	476.5		81.85
21	488	114.32	354.6		82.50
22	521	164.17	477.1		84.17
23	535	74.21	210.1		84.81
24	561	95.68	258.5		86.02
25	588	89.19	229.8		87.32

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Electropherogram Summary Continued ...

... Peak table for sample 4 : sonic1_DF10_t40_spr1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	607	88.88	221.7		88.11
27	633	78.97	189.0		88.89
28	754	644.46	1,295.2		91.68
29	1,790	13.17	11.2		99.97
30	1,914	27.64	21.9		100.76
31	2,718	6.76	3.8		103.64
32	3,443	3.03	1.3		105.12
33	4,168	4.39	1.6		106.05
34	10,380	75.00	10.9	Upper Marker	113.00

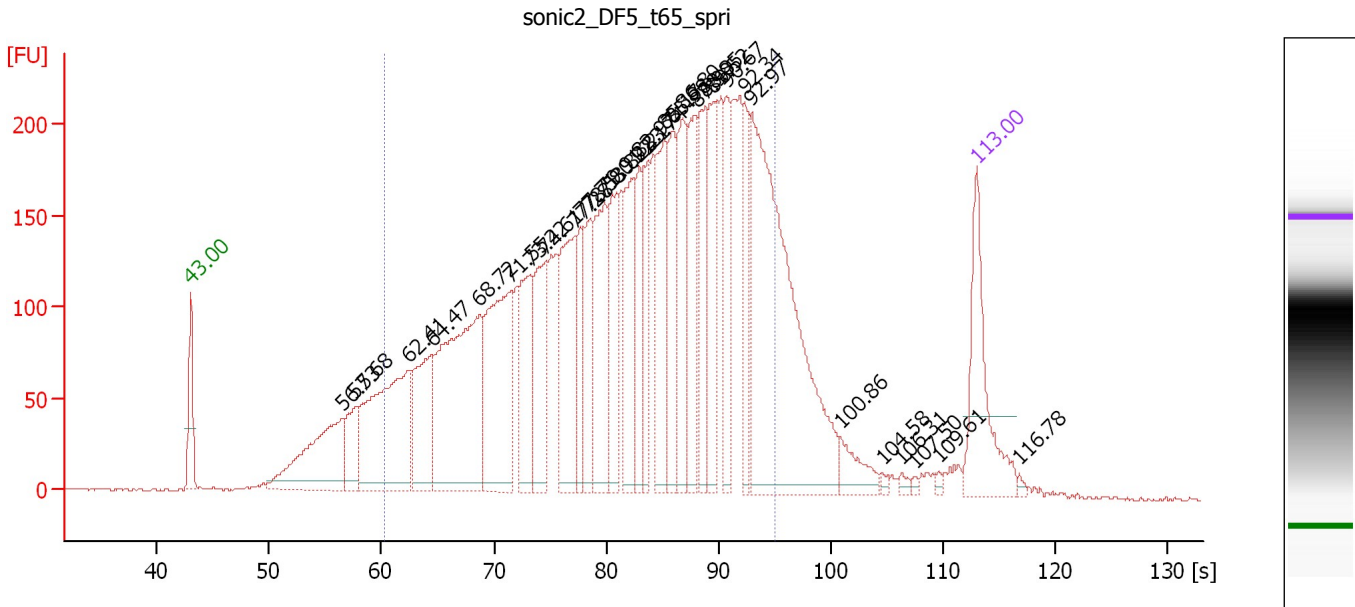
Region table for sample 4 : sonic1_DF10_t40_spr1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	502	3,729.30	4,828.1	14,092.8	83	38.3

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Electropherogram Summary Continued ...



Overall Results for sample 5 : sonic2_DF5_t65_spri

Number of peaks found: 31 Corr. Area 1: 6,294.4
 Noise: 0.6

Peak table for sample 5 : sonic2_DF5_t65_spri

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	160	159.02	1,506.8		56.53
3	172	52.33	460.5		57.68
4	223	225.03	1,527.7		62.41
5	246	104.22	643.0		64.47
6	292	277.22	1,438.9		68.72
7	326	190.26	884.5		71.55
8	347	92.79	405.4		73.22
9	364	94.09	391.5		74.61
10	398	126.67	482.8		77.28
11	404	50.63	189.8		77.71
12	418	67.23	243.4		78.53
13	443	117.36	401.5		79.91
14	461	83.86	275.9		80.92
15	483	103.23	323.6		82.21
16	497	57.60	175.7		82.97
17	512	57.70	170.6		83.74
18	543	98.17	274.1		85.17
19	560	76.37	206.7		85.98
20	577	94.78	248.8		86.80
21	604	79.93	200.6		87.99
22	632	77.56	186.0		88.85
23	654	83.76	194.2		89.52
24	691	61.49	134.8		90.67
25	804	56.70	106.9		92.34

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Electropherogram Summary Continued ...

... Peak table for sample 5 : sonic2_DF5_t65_spri

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	850	371.28	661.8		92.97
27	1,929	22.56	17.7		100.86
28	3,025	2.46	1.2		104.58
29	4,372	3.56	1.2		106.31
30	5,307	1.83	0.5		107.50
31	6,954	2.36	0.5		109.61
32	10,380	75.00	10.9	Upper Marker	113.00
33	14,208	0.00	0.0		116.78

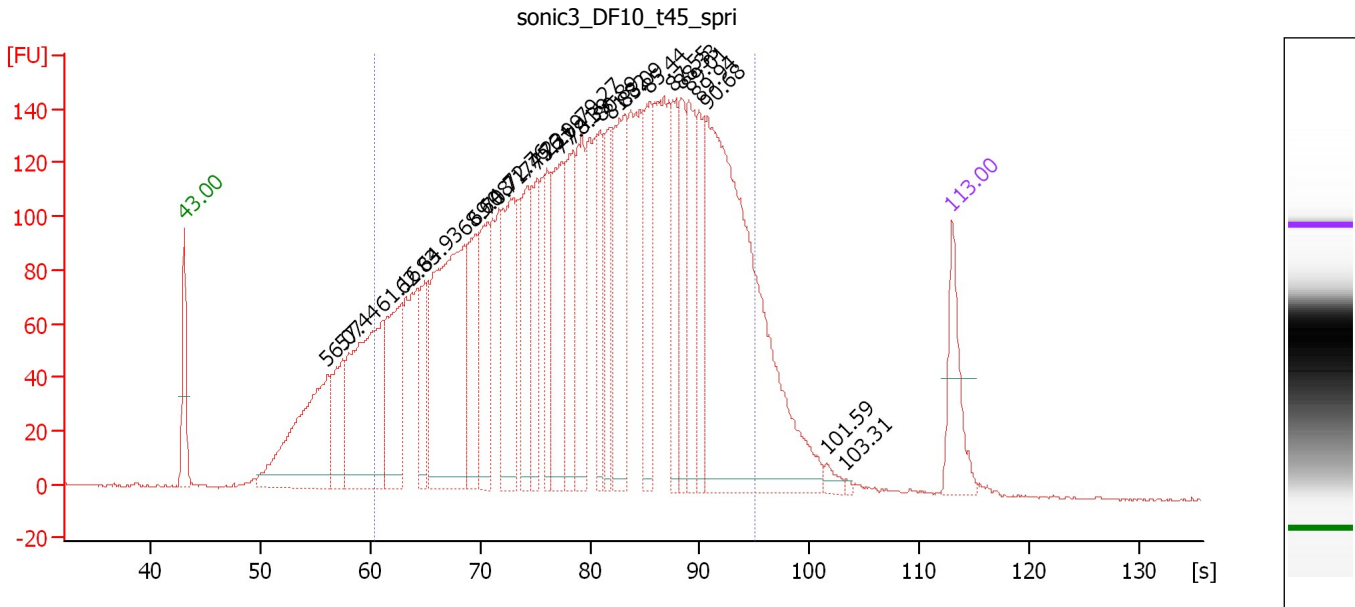
Region table for sample 5 : sonic2_DF5_t65_spri

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	512	2,755.45	6,294.4	10,201.1	 83	37.8

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Electropherogram Summary Continued ...



Overall Results for sample 6 : sonic3 DF10 t45 spri

Number of peaks found: 26 Corr. Area 1: 5,046.4
 Noise: 0.5

Peak table for sample 6 : sonic3 DF10 t45 spri

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	155	354.08	3,461.9		56.07
3	170	133.76	1,194.9		57.44
4	210	386.25	2,792.7		61.16
5	228	207.05	1,377.8		62.83
6	251	105.93	640.5		64.93
7	291	477.73	2,491.0		68.60
8	300	144.96	731.6		69.48
9	315	160.38	770.3		70.71
10	341	208.79	927.4		72.76
11	359	134.69	567.7		74.23
12	372	127.12	518.2		75.21
13	383	98.35	389.4		76.09
14	399	170.54	647.3		77.41
15	416	166.00	604.5		78.39
16	432	146.99	516.0		79.27
17	460	101.55	334.4		80.89
18	476	101.23	321.9		81.82
19	499	211.96	643.8		83.09
20	548	129.24	357.1		85.44
21	593	93.40	238.7		87.55
22	615	99.86	246.1		88.33
23	637	133.67	317.9		89.01
24	667	110.99	252.0		89.94
25	691	769.88	1,687.8		90.68

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad

Created: 8/12/2019 3:01:52 PM
 Modified: 8/12/2019 3:50:35 PM

Electropherogram Summary Continued ...

... Peak table for sample 6 : sonic3 DF10 t45 spri

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,089	10.65	7.7		101.59
27	2,617	2.60	1.5		103.31
28	10,380	75.00	10.9	Upper Marker	113.00

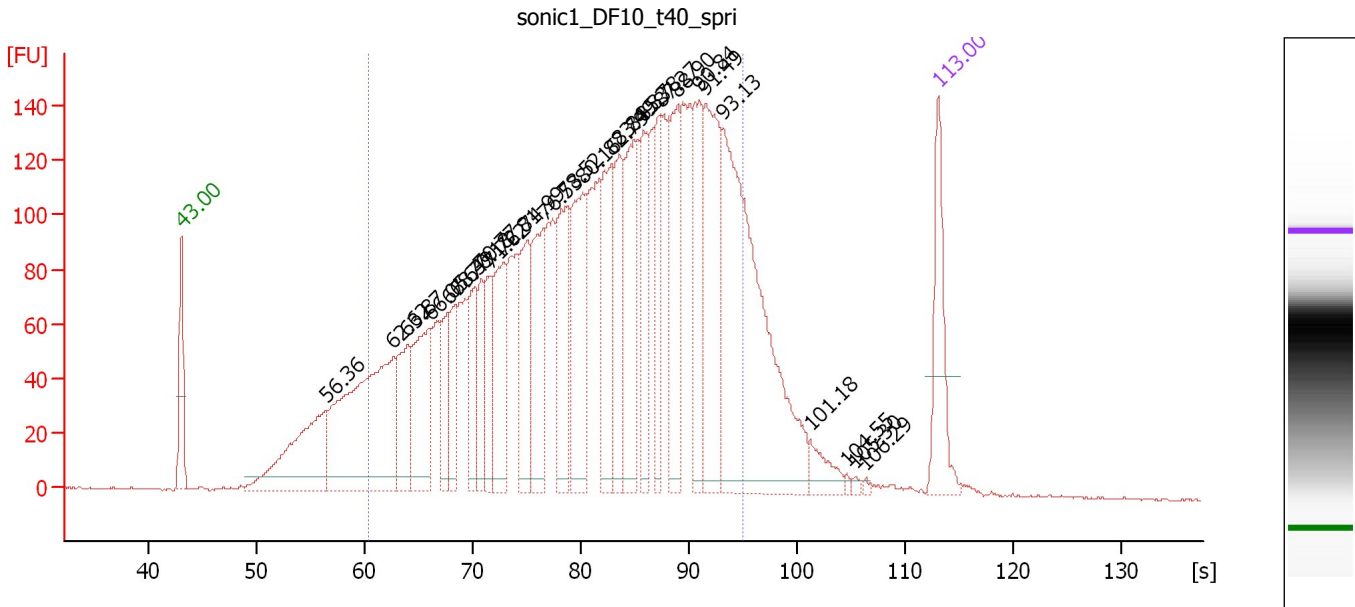
Region table for sample 6 : sonic3 DF10 t45 spri

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	479	4,987.78	5,046.4	19,621.4	 84	38.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad

Created: 8/12/2019 3:01:52 PM
 Modified: 8/12/2019 3:50:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sonic1_DF10_t40_spri

Number of peaks found: 27 Corr. Area 1: 4,277.6
 Noise: 0.3

Peak table for sample 7 : sonic1_DF10_t40_spri

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	158	213.85	2,049.3		56.36
3	225	386.86	2,599.5		62.62
4	239	107.25	679.9		63.87
5	263	150.98	870.4		66.05
6	280	69.14	374.0		67.64
7	288	62.25	327.2		68.39
8	309	82.93	406.9		70.18
9	316	61.33	293.8		70.77
10	327	66.00	306.0		71.62
11	342	133.25	590.9		72.81
12	369	103.32	424.3		74.99
13	388	132.78	518.3		76.53
14	418	134.61	487.5		78.52
15	447	142.88	484.1		80.16
16	494	128.60	394.7		82.79
17	507	102.62	306.6		83.49
18	536	135.42	383.2		84.83
19	555	85.76	233.9		85.78
20	587	79.47	205.1		87.27
21	633	119.90	286.8		88.90
22	696	111.68	243.0		90.84
23	740	184.09	377.0		91.49
24	862	435.95	766.2		93.13
25	1,980	23.94	18.3		101.18

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad

Created: 8/12/2019 3:01:52 PM
 Modified: 8/12/2019 3:50:35 PM

Electropherogram Summary Continued ...

... Peak table for sample 7 : sonic1_DF10_t40_spr1

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,001	2.47	1.2		104.55
27	3,584	2.65	1.1		105.30
28	4,362	1.98	0.7		106.29
29	10,380	75.00	10.9	Upper Marker	113.00

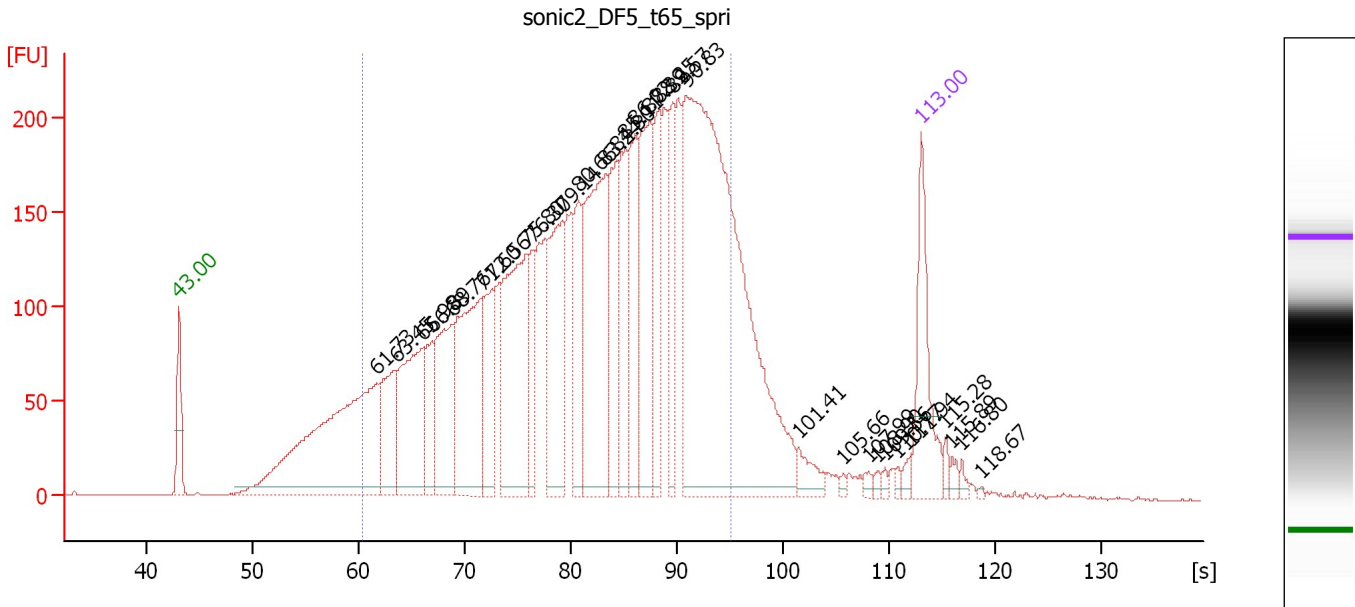
Region table for sample 7 : sonic1_DF10_t40_spr1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	505	3,444.45	4,277.6	12,924.1	83	38.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad

Created: 8/12/2019 3:01:52 PM
 Modified: 8/12/2019 3:50:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sonic2_DF5_t65_spri

Number of peaks found: 30 Corr. Area 1: 5,884.8
 Noise: 0.3

Peak table for sample 8 : sonic2_DF5_t65_spri

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	216	415.71	2,919.8		61.73
3	234	100.26	647.9		63.45
4	262	164.00	948.3		65.98
5	272	64.82	361.1		66.89
6	292	141.96	735.7		68.76
7	327	210.24	975.4		71.60
8	339	86.82	388.5		72.56
9	379	215.79	862.6		75.80
10	385	58.30	229.2		76.30
11	429	152.58	538.6		79.14
12	456	79.09	262.8		80.66
13	502	247.67	747.8		83.24
14	524	99.34	287.1		84.30
15	541	95.57	267.4		85.11
16	561	101.43	274.1		86.02
17	590	143.20	368.0		87.39
18	612	86.63	214.4		88.25
19	655	78.03	180.5		89.57
20	696	735.05	1,600.0		90.83
21	2,032	19.08	14.2		101.41
22	3,867	2.74	1.1		105.66
23	5,689	4.35	1.2		107.99
24	6,402	3.97	0.9		108.90
25	6,917	3.25	0.7		109.56

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad

Created: 8/12/2019 3:01:52 PM
 Modified: 8/12/2019 3:50:35 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : sonic2_DF5_t65_spri

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	8,123	3.81	0.7		110.77
27	9,303	5.43	0.9		111.94
28	10,380	75.00	10.9	Upper Marker	113.00
29	12,688	0.00	0.0		115.28
30	13,304	0.00	0.0		115.89
31	14,227	0.00	0.0		116.80
32	16,125	0.00	0.0		118.67

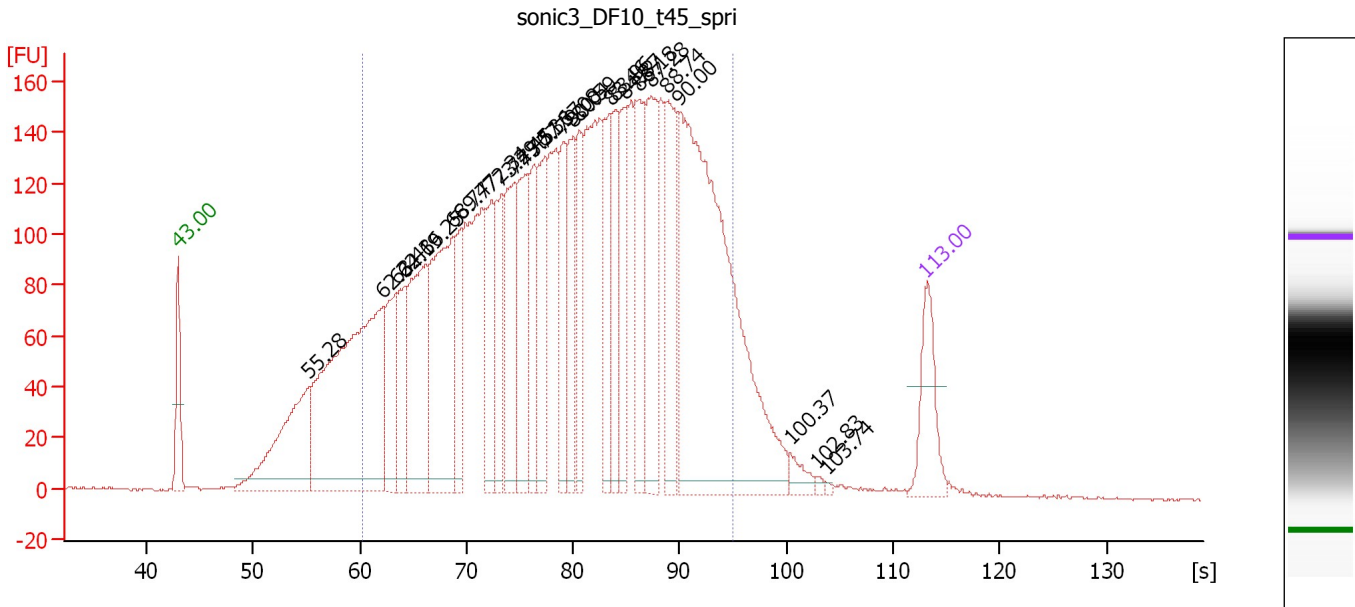
Region table for sample 8 : sonic2_DF5_t65_spri

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	515	3,050.81	5,884.8	11,227.6	83	37.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad

Created: 8/12/2019 3:01:52 PM
 Modified: 8/12/2019 3:50:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sonic3 DF10 t45 spri

Number of peaks found: 26 Corr. Area 1: 5,345.5
 Noise: 0.3

Peak table for sample 9 : sonic3 DF10 t45 spri

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	147	317.07	3,278.2		55.28
3	221	727.39	4,984.0		62.22
4	234	146.98	950.6		63.43
5	242	116.88	730.3		64.19
6	265	280.04	1,601.3		66.25
7	292	348.02	1,803.5		68.77
8	300	114.94	580.4		69.47
9	336	124.67	562.5		72.34
10	348	139.21	606.5		73.29
11	362	178.97	748.6		74.45
12	375	163.59	660.2		75.51
13	386	125.32	491.8		76.36
14	399	140.43	533.7		77.37
15	428	111.45	394.3		79.08
16	445	127.95	435.6		80.04
17	455	105.14	350.3		80.59
18	506	137.64	411.8		83.46
19	517	113.04	331.2		83.96
20	536	118.68	335.3		84.87
21	564	154.77	415.8		86.18
22	587	180.52	465.6		87.28
23	628	167.63	404.3		88.74
24	669	811.22	1,836.9		90.00
25	1,852	18.97	15.5		100.37

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad

Created: 8/12/2019 3:01:52 PM
 Modified: 8/12/2019 3:50:35 PM

Electropherogram Summary Continued ...

... Peak table for sample 9 : sonic3 DF10 t45 spri

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,471	4.19	2.6		102.83
27	2,750	2.25	1.2		103.74
28	10,380	75.00	10.9	Upper Marker	113.00

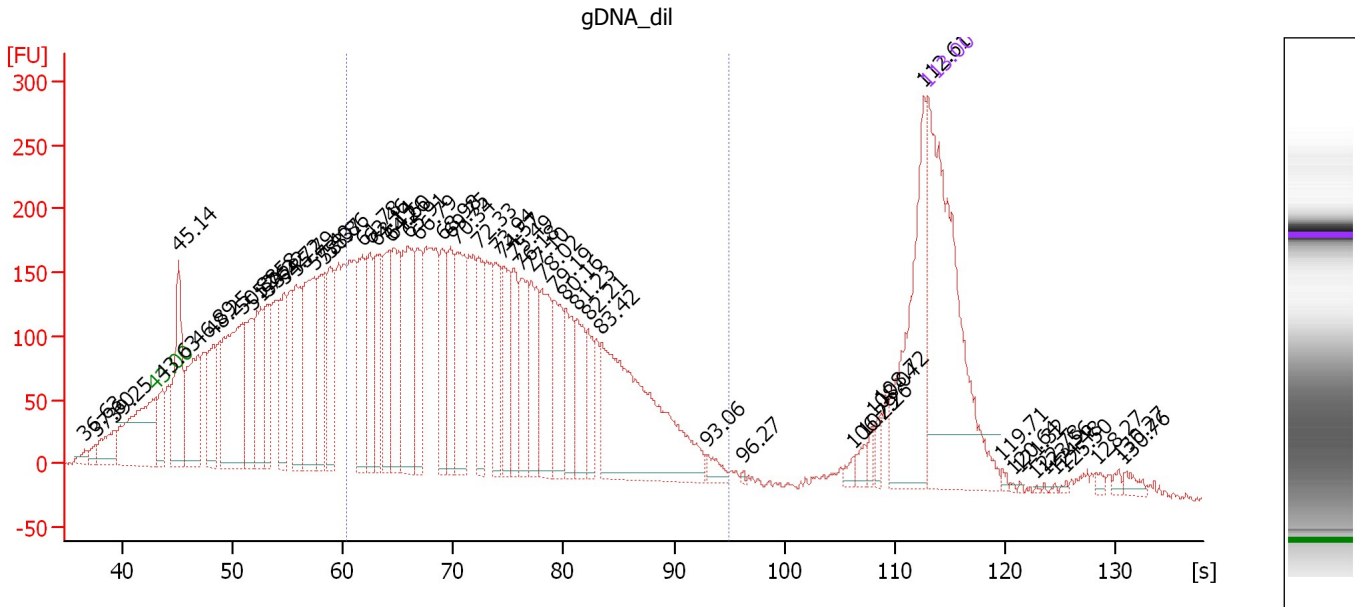
Region table for sample 9 : sonic3 DF10 t45 spri

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	476	5,040.85	5,345.5	19,933.6	 84	38.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad

Created: 8/12/2019 3:01:52 PM
 Modified: 8/12/2019 3:50:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : gDNA_dil

Number of peaks found: 55 Corr. Area 1: 6,223.6
 Noise: 4.4

Peak table for sample 10 : gDNA_dil

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	13	0.00	0.0		36.63
2	16	0.00	0.0		37.60
3	22	0.00	0.0		39.25
4	35	125.00	5,411.3	Lower Marker	43.00
5	39	20.95	812.8		43.63
6	49	56.56	1,758.9		45.14
7	64	47.93	1,134.6		46.89
8	76	29.14	578.8		48.25
9	100	84.53	1,281.2		50.88
10	109	39.66	550.0		51.76
11	118	38.66	496.4		52.58
12	125	28.51	346.4		53.22
13	141	39.62	426.7		54.72
14	152	40.61	404.7		55.79
15	169	61.51	550.9		57.40
16	180	32.82	276.9		58.37
17	185	33.20	272.3		58.86
18	216	38.27	268.1		61.78
19	224	27.40	185.6		62.46
20	231	29.01	190.2		63.14
21	243	30.60	190.6		64.26
22	247	38.75	237.7		64.60
23	261	51.37	297.9		65.91
24	271	27.07	151.5		66.79
25	295	27.22	139.9		68.98

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad

Created: 8/12/2019 3:01:52 PM
 Modified: 8/12/2019 3:50:35 PM

Electropherogram Summary Continued ...

... Peak table for sample 10 :

gDNA dil

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	304	23.16	115.6		69.75
27	311	41.48	202.2		70.34
28	336	20.68	93.3		72.33
29	356	22.29	94.9		73.94
30	364	22.88	95.3		74.57
31	375	21.78	87.9		75.49
32	384	23.31	92.1		76.18
33	395	23.25	89.1		77.10
34	410	28.76	106.4		78.02
35	430	21.51	75.7		79.19
36	447	20.01	67.8		80.16
37	466	19.52	63.5		81.23
38	483	12.83	40.2		82.21
39	506	92.99	278.6		83.42
40	857	4.02	7.1		93.06
41	1,203	0.47	0.6		96.27
42	4,357	1.79	0.6		106.29
43	5,118	2.64	0.8		107.26
44	5,727	2.51	0.7		108.04
45	6,260	3.02	0.7		108.72
46	9,986	42.81	6.5		112.61
47	10,380	75.00	10.9	Upper Marker	113.00
48	17,183	0.00	0.0		119.71
49	18,119	0.00	0.0		120.64
50	18,810	0.00	0.0		121.32
51	20,288	0.00	0.0		122.78
52	21,077	0.00	0.0		123.56
53	22,014	0.00	0.0		124.48
54	23,049	0.00	0.0		125.50
55	25,859	0.00	0.0		128.27
56	27,880	0.00	0.0		130.27
57	28,373	0.00	0.0		130.76

Region table for sample 10 :

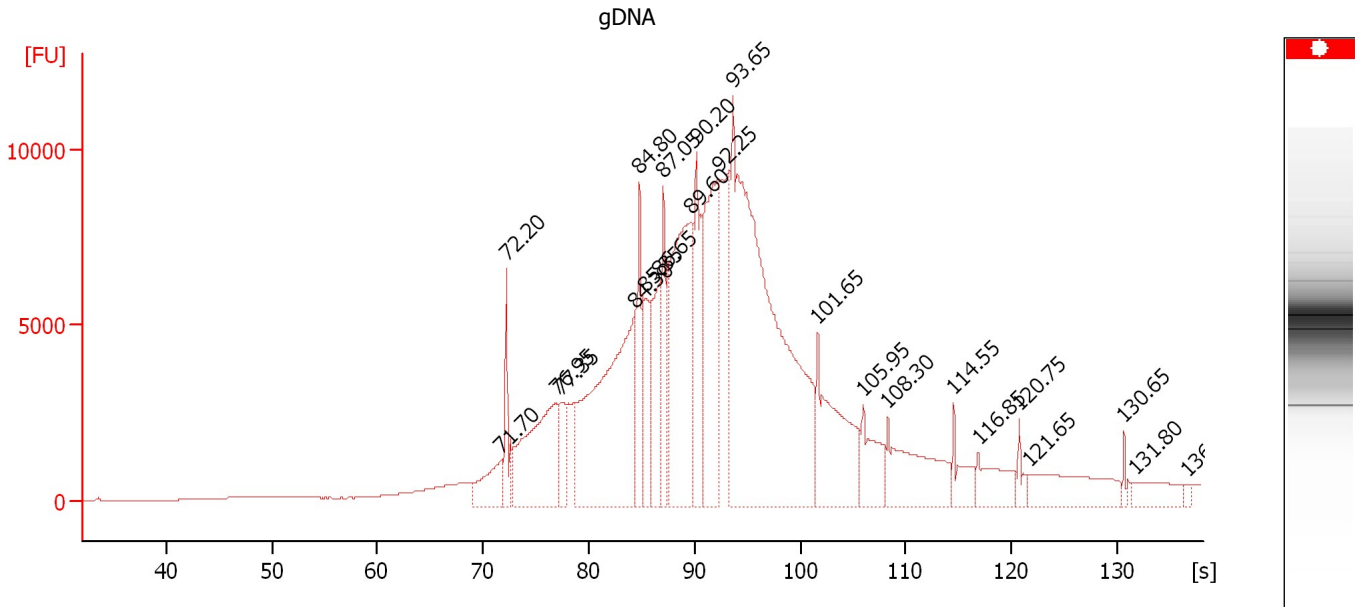
gDNA dil

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	369	832.25	6,223.6	3,987.7	55	35.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad

Created: 8/12/2019 3:01:52 PM
 Modified: 8/12/2019 3:50:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : gDNA

Number of peaks found: 0 Noise: 5.5

Peak table for sample 11 : gDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		71.70
2	0	0.00	0.0		72.20
3	0	0.00	0.0		76.95
4	0	0.00	0.0		77.35
5	0	0.00	0.0		84.30
6	0	0.00	0.0		84.80
7	0	0.00	0.0		85.35
8	0	0.00	0.0		86.65
9	0	0.00	0.0		87.05
10	0	0.00	0.0		89.60
11	0	0.00	0.0		90.20
12	0	0.00	0.0		92.25
13	0	0.00	0.0		93.65
14	0	0.00	0.0		101.65
15	0	0.00	0.0		105.95
16	0	0.00	0.0		108.30
17	0	0.00	0.0		114.55
18	0	0.00	0.0		116.85
19	0	0.00	0.0		120.75
20	0	0.00	0.0		121.65
21	0	0.00	0.0		130.65
22	0	0.00	0.0		131.80
23	0	0.00	0.0		136.60

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad

Created: 8/12/2019 3:01:52 PM
Modified: 8/12/2019 3:50:35 PM

Gel Image

Assay Class: High Sensitivity DNA Assay Created: 8/12/2019 3:01:52 PM
 Data Path: C:\...ert\data\2019-08-12\2019-08-12_002_WGBS_Sonication_test.xad Modified: 8/12/2019 3:50:35 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		8/12/2019 3:43:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Instrument error occurred on port 1, Optical signal too high (1605h)	559	Instrument	Run	Sample 11	8/12/2019 3:41:48 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\2019-08-12\2019-08-12_002.xad)		Instrument	Run		8/12/2019 3:01:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/12/2019 3:01:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/12/2019 3:01:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/12/2019 3:01:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/12/2019 3:01:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/12/2019 3:01:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/12/2019 3:01:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1