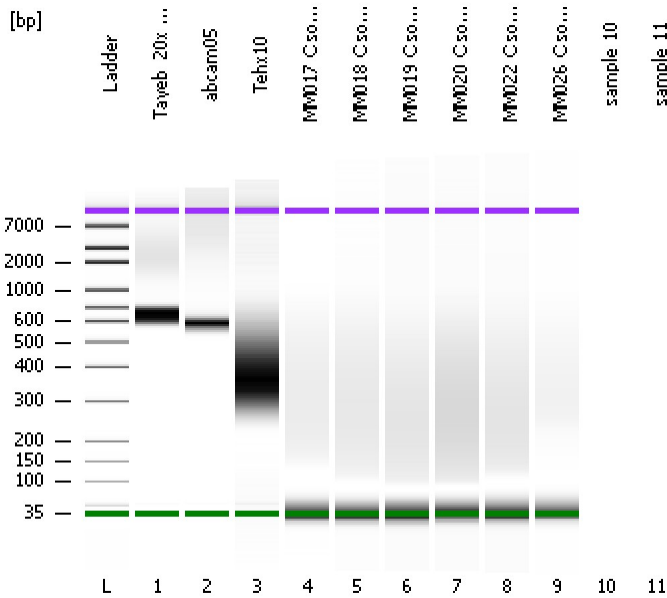


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
Modified: 10/3/2014 1:46:27 PM

Electrophoresis File Run Summary



Instrument Information:

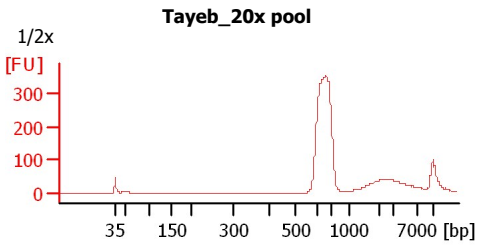
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

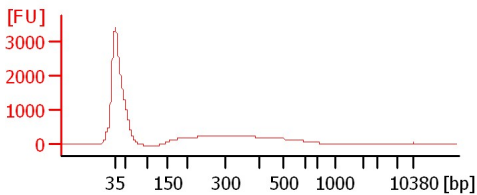
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

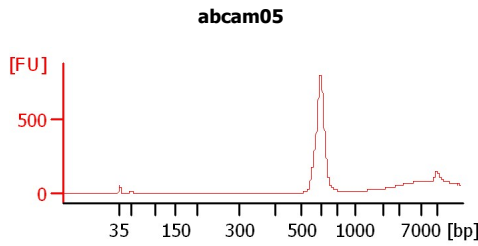
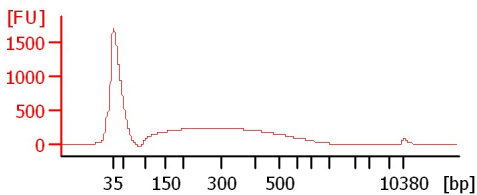
Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



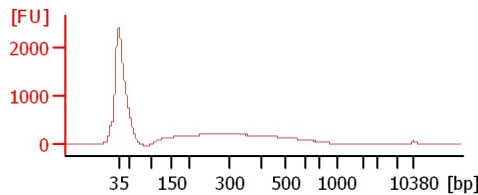
MM017 C soni2



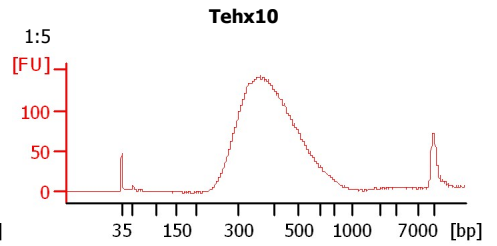
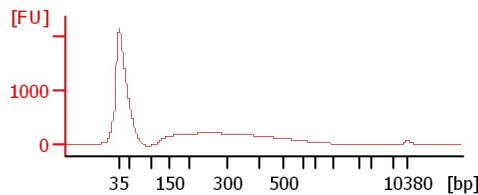
MM020 C soni2



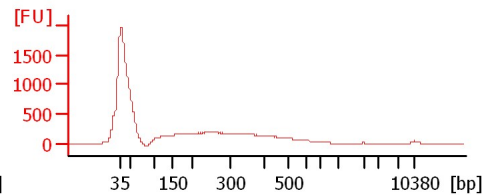
MM018 C soni2



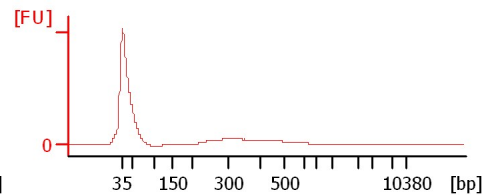
MM022 C soni2



MM019 C soni2



MM026 C soni2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
Modified: 10/3/2014 1:46:27 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Tayeb_20x pool	1/2x	<input type="checkbox"/>	✓			
abcam05		<input type="checkbox"/>	✓			
Tehx10	1:5	<input type="checkbox"/>	✓			
MM017 C soni2		<input type="checkbox"/>	✓			
MM018 C soni2		<input type="checkbox"/>	✓			
MM019 C soni2		<input type="checkbox"/>	✓			
MM020 C soni2		<input type="checkbox"/>	✓			
MM022 C soni2		<input type="checkbox"/>	✓			
MM026 C soni2		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
 Modified: 10/3/2014 1:46:27 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

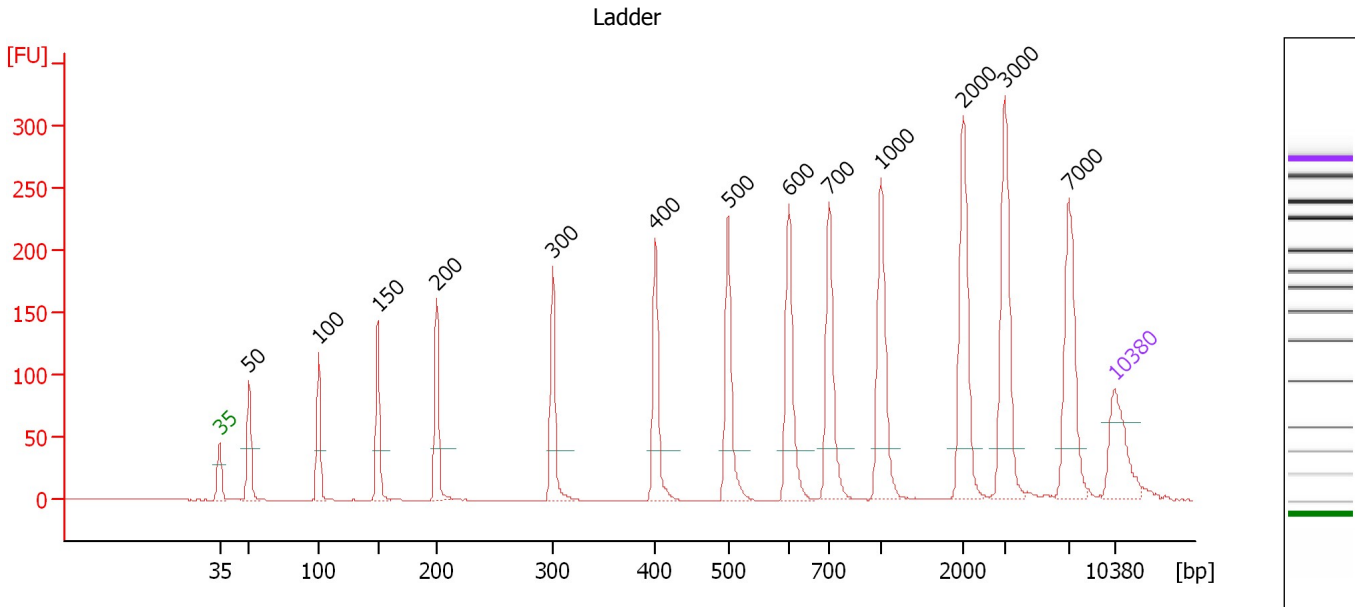
Ladder

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\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
 Modified: 10/3/2014 1:46:27 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

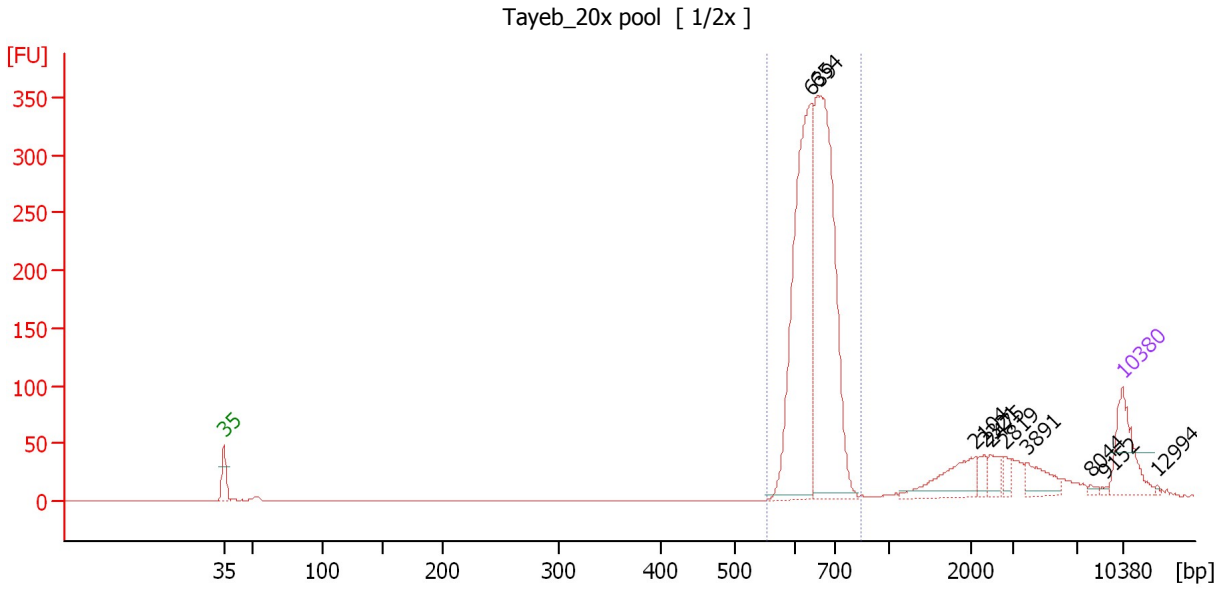
Peak table for Ladder

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\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
 Modified: 10/3/2014 1:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Tayeb 20x pool

Number of peaks found: 10 Corr. Area 1: 1,476.4
 Noise: 0.2

Peak table for sample 1 : Tayeb 20x pool

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	639	521.03	1,236.0	
3	654	606.48	1,404.1	
4	2,104	71.24	51.3	
5	2,321	16.39	10.7	
6	2,475	21.64	13.2	
7	2,819	11.94	6.4	
8	3,891	38.48	15.0	
9	8,044	3.61	0.7	
10	9,152	2.64	0.4	
11	10,380	75.00	10.9	Upper Marker
12	12,994	0.00	0.0	

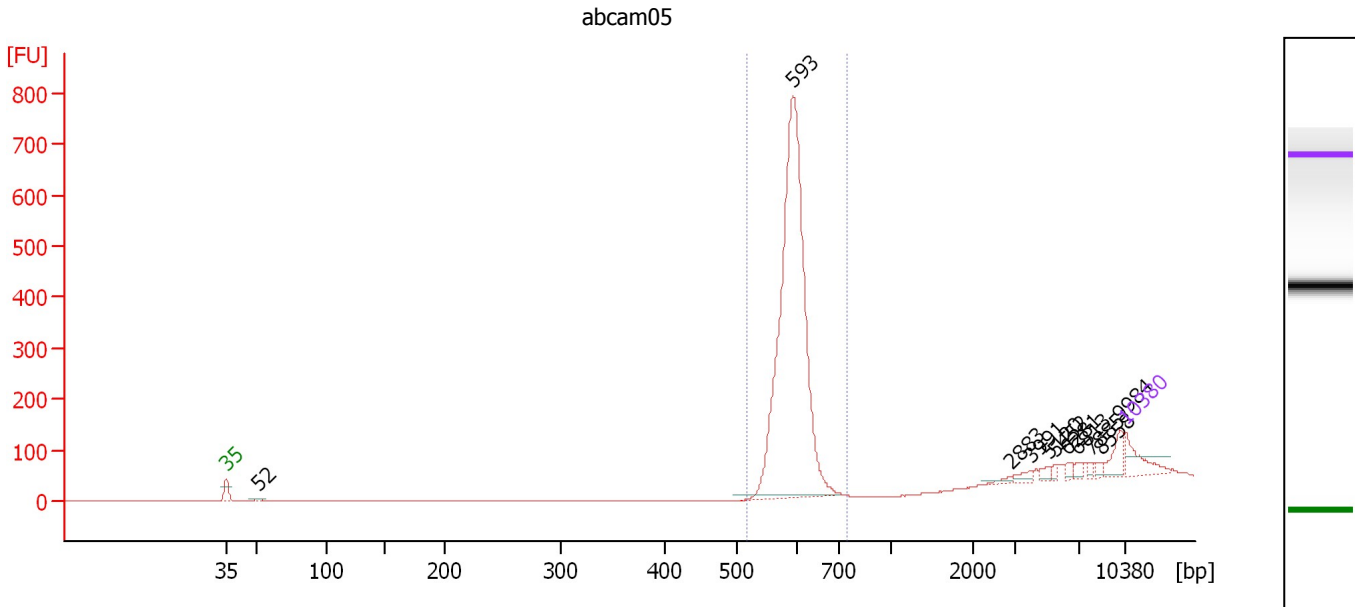
Region table for sample 1 : Tayeb 20x pool

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
555	649	848	1,476.4	80	6.1	1,133.62	2,652.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
 Modified: 10/3/2014 1:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : abcam05

Number of peaks found: 11 Corr. Area 1: 1,846.5
 Noise: 0.2

Peak table for sample 2 : abcam05

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	10.09	293.0	
3	593	1,814.71	4,640.2	
4	2,883	11.46	6.0	
5	3,991	19.81	7.5	
6	5,120	17.85	5.3	
7	5,452	11.38	3.2	
8	6,281	14.86	3.6	
9	6,813	16.64	3.7	
10	7,885	12.15	2.3	
11	8,558	15.26	2.7	
12	9,984	56.98	8.6	
13	10,380	75.00	10.9	Upper Marker

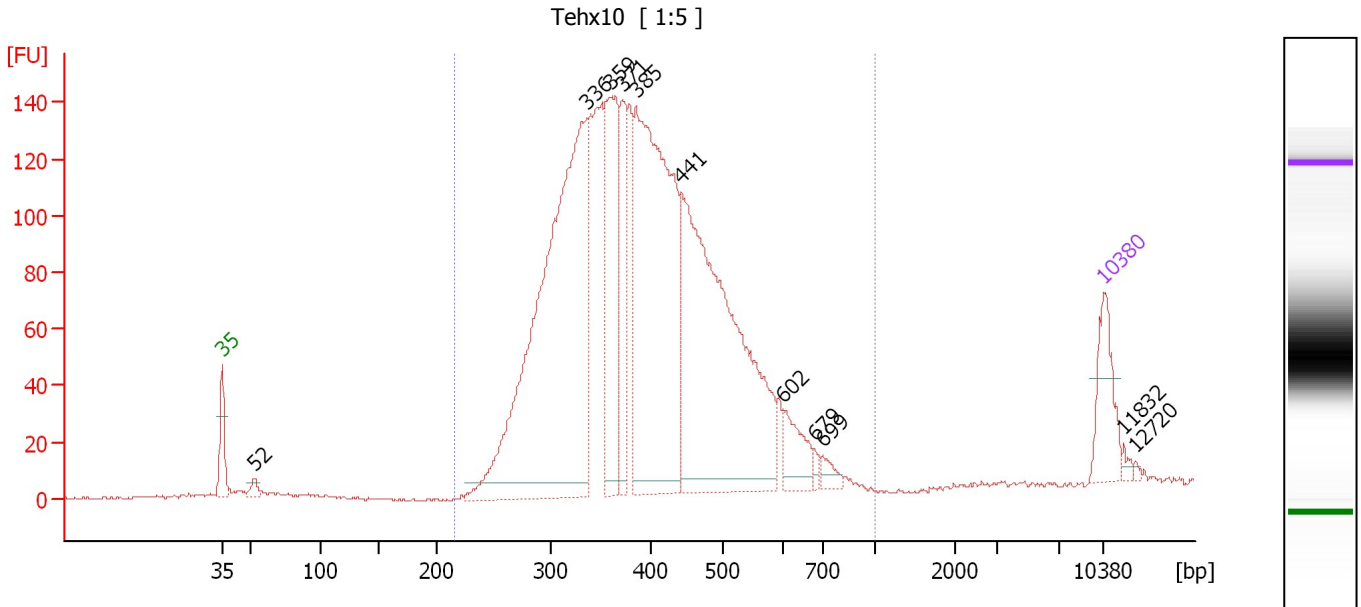
Region table for sample 2 : abcam05

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
515	592	743	1,846.5	90	3.5	1,655.81	4,242.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
 Modified: 10/3/2014 1:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Tehx10

Number of peaks found: 11 Corr. Area 1: 2,898.1
 Noise: 0.5

Peak table for sample 3 : Tehx10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	16.77	486.4	
3	336	1,111.82	5,015.1	
4	359	315.85	1,332.5	
5	371	157.41	643.2	
6	385	789.78	3,112.1	
7	441	819.89	2,815.4	
8	602	66.84	168.3	
9	679	9.85	22.0	
10	699	19.24	41.7	
11	10,380	75.00	10.9	Upper Marker
12	11,832	0.00	0.0	
13	12,720	0.00	0.0	

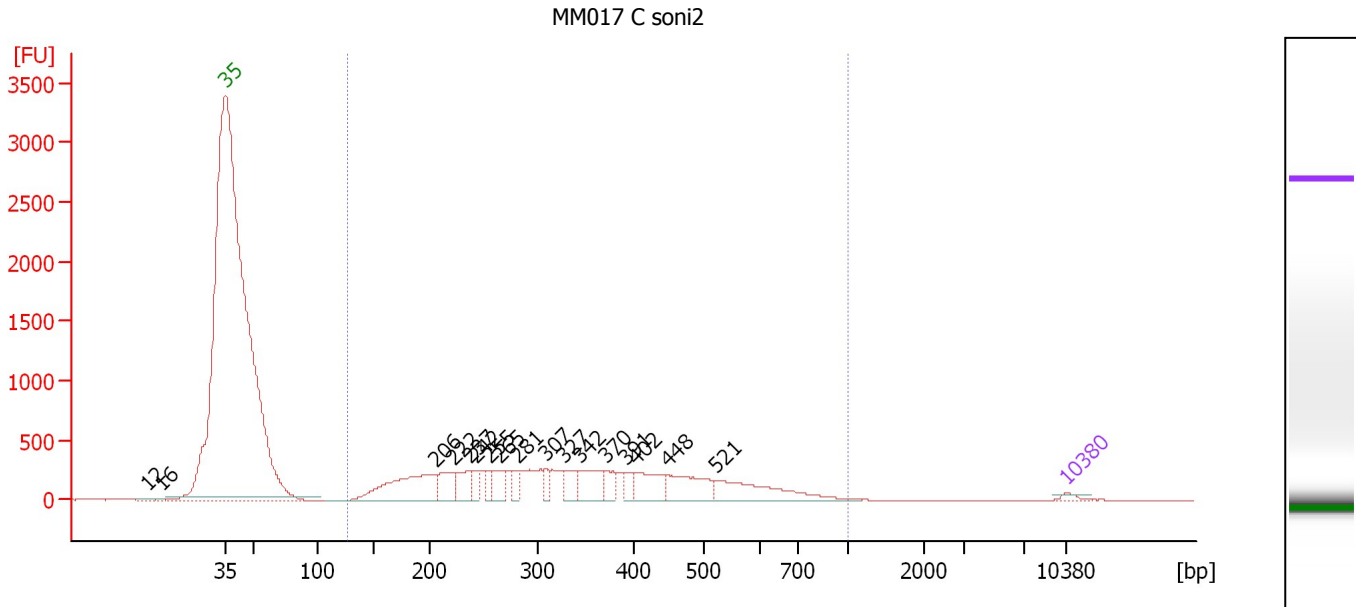
Region table for sample 3 : Tehx10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
216	402	1,000	2,898.1	98	23.6	3,729.41	15,058.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
 Modified: 10/3/2014 1:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MM017 C soni2

Number of peaks found: 17 Corr. Area 1: 10,511.6
 Noise: 0.4

Peak table for sample 4 : MM017 C soni2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	12	0.00	0.0	
2	16	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	206	3,122.41	22,914.2	
5	222	921.54	6,303.5	
6	237	833.27	5,326.3	
7	242	376.52	2,353.7	
8	255	400.57	2,380.1	
9	265	733.09	4,196.2	
10	281	436.30	2,350.9	
11	307	360.78	1,778.8	
12	327	678.42	3,147.3	
13	342	1,072.24	4,749.9	
14	370	519.08	2,128.0	
15	391	400.25	1,552.9	
16	402	1,039.42	3,916.1	
17	448	1,321.60	4,472.5	
18	521	1,637.45	4,763.0	
19	10,380	75.00	10.9	Upper Marker

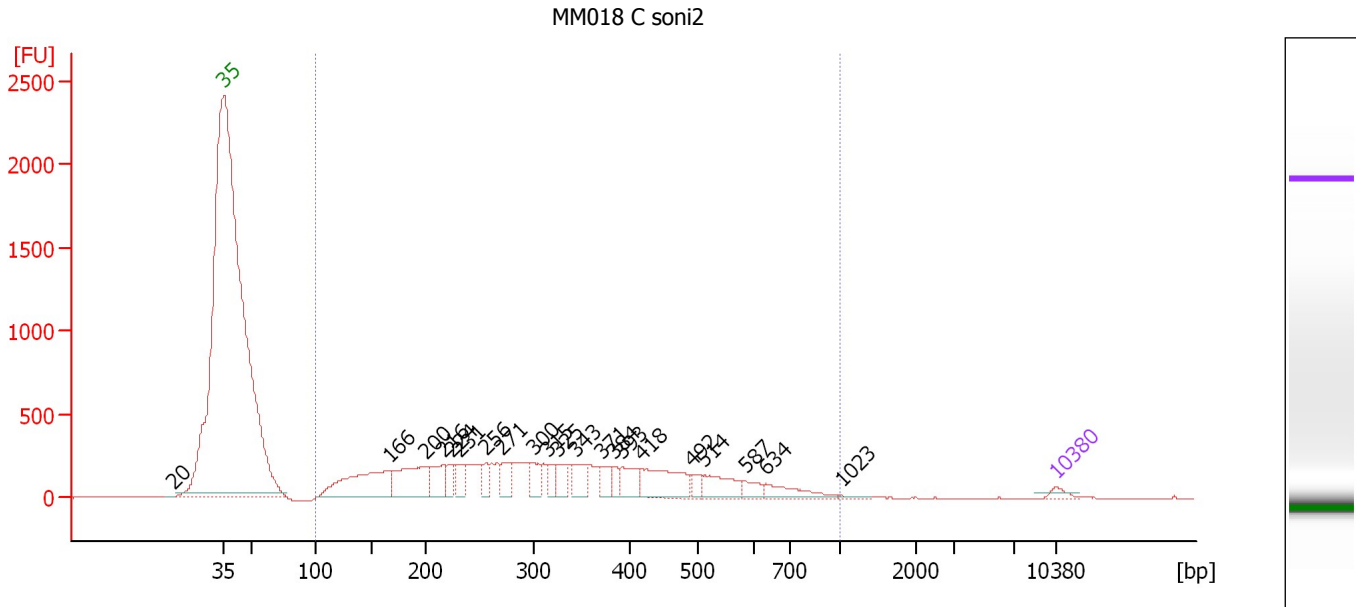
Region table for sample 4 : MM017 C soni2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
125	354	1,000	10,511.6	100	39.8	15,889.13	85,162.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
 Modified: 10/3/2014 1:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MM018 C soni2

Number of peaks found: 21 Corr. Area 1: 9,546.4
 Noise: 0.5

Peak table for sample 5 : MM018 C soni2


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	20	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	166	1,923.43	17,526.3	
4	200	1,359.54	10,307.6	
5	216	658.88	4,620.8	
6	224	279.09	1,884.5	
7	231	420.22	2,753.2	
8	256	251.93	1,492.2	
9	271	432.39	2,417.3	
10	300	332.93	1,681.5	
11	315	248.26	1,194.0	
12	325	352.28	1,642.0	
13	343	421.88	1,861.1	
14	371	296.48	1,211.6	
15	384	166.42	656.4	
16	393	462.27	1,784.5	
17	418	976.40	3,535.8	
18	492	190.48	586.8	
19	514	550.08	1,622.2	
20	587	189.47	489.3	
21	634	359.51	859.6	
22	1,023	22.43	33.2	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
Modified: 10/3/2014 1:46:27 PM

Electropherogram Summary Continued ...

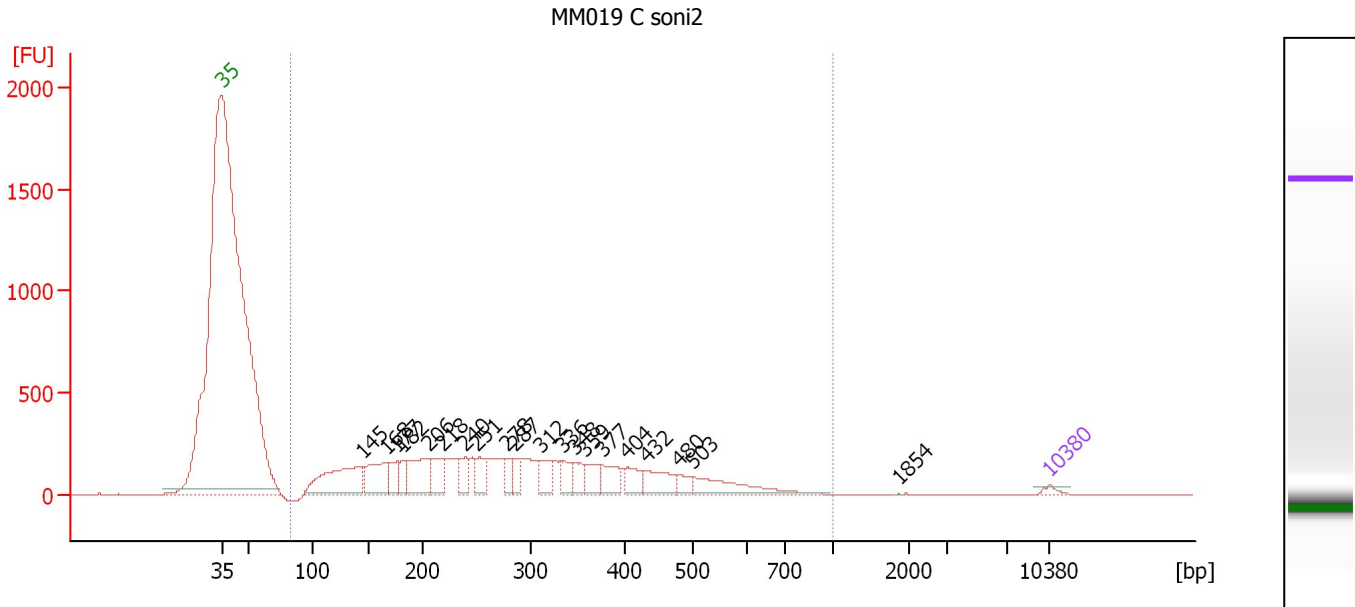
... Region table for sample 5 : MM018 C soni2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Molarity [pmol/l]	Color
99	337	1,000	9,546.4	99	45.0	12,543.75	76,742.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
 Modified: 10/3/2014 1:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MM019 C soni2

Number of peaks found: 20 Corr. Area 1: 7,995.9
 Noise: 0.3

Peak table for sample 6 : MM019 C soni2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	145	2,352.98	24,570.2	
3	168	1,325.79	11,989.4	
4	177	527.55	4,520.2	
5	182	446.85	3,715.7	
6	206	1,321.41	9,708.4	
7	218	689.00	4,787.2	
8	240	528.20	3,337.6	
9	251	513.85	3,100.3	
10	278	322.54	1,756.2	
11	287	361.77	1,912.2	
12	312	564.51	2,743.7	
13	336	410.39	1,851.6	
14	348	384.75	1,677.1	
15	359	529.55	2,236.2	
16	377	598.46	2,406.9	
17	404	472.44	1,770.6	
18	432	675.97	2,372.1	
19	480	272.14	859.6	
20	503	964.26	2,904.9	
21	1,854	2.09	1.7	
22	10,380	75.00	10.9	Upper Marker

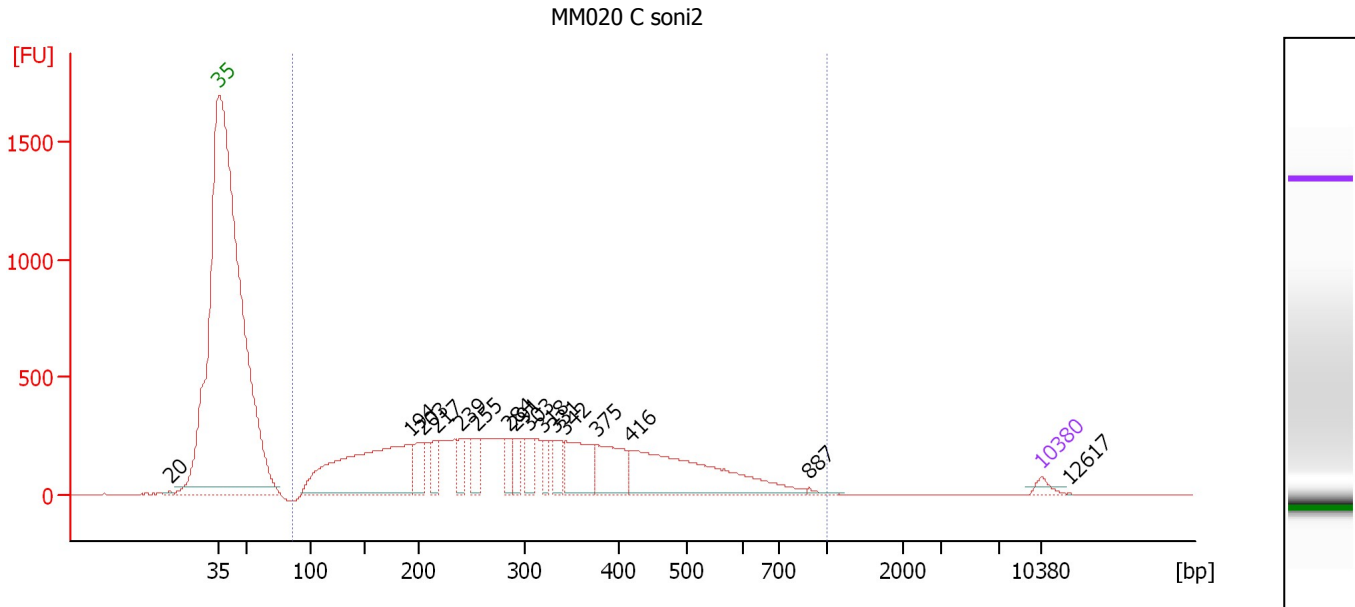
Region table for sample 6 : MM019 C soni2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
83	302	1,000	7,995.9	100	44.2	16,766.92	113,695.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
 Modified: 10/3/2014 1:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : MM020 C soni2

Number of peaks found: 16 Corr. Area 1: 10,957.7
 Noise: 0.4

Peak table for sample 7 : MM020 C soni2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	20	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	194	3,472.64	27,190.1	
4	203	494.65	3,685.2	
5	217	358.82	2,507.9	
6	239	285.31	1,811.7	
7	255	383.00	2,275.8	
8	284	278.98	1,489.6	
9	291	312.23	1,627.2	
10	303	319.91	1,599.8	
11	318	230.53	1,097.7	
12	331	372.56	1,704.6	
13	342	917.49	4,066.3	
14	375	860.20	3,474.5	
15	416	2,268.23	8,252.3	
16	887	35.29	60.3	
17	10,380	75.00	10.9	Upper Marker
18	12,617	0.00	0.0	

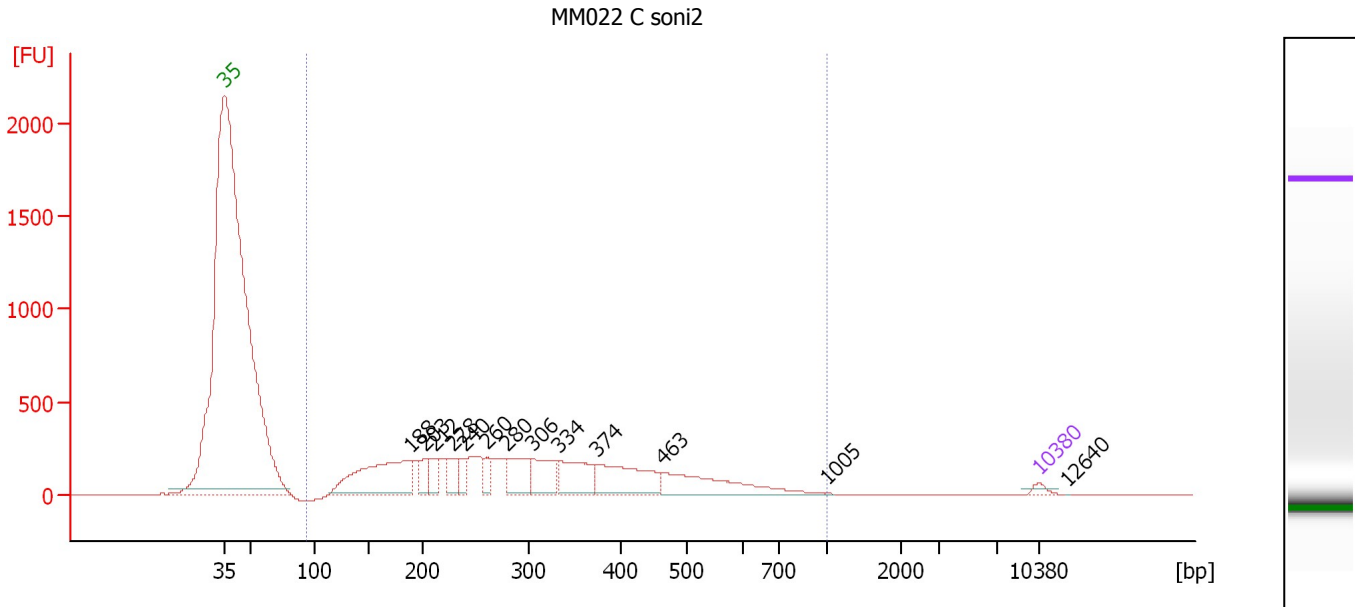
Region table for sample 7 : MM020 C soni2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
86	320	1,000	10,957.7	100	44.9	13,578.90	87,938.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
 Modified: 10/3/2014 1:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MM022 C soni2

Number of peaks found: 13 Corr. Area 1: 8,260.5
 Noise: 0.2

Peak table for sample 8 : MM022 C soni2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	188	2,619.13	21,061.9	
3	203	436.97	3,263.8	
4	212	436.11	3,118.7	
5	228	516.99	3,436.8	
6	240	328.22	2,068.1	
7	260	292.48	1,704.3	
8	280	895.84	4,855.0	
9	306	873.48	4,327.2	
10	334	1,042.33	4,732.1	
11	374	1,421.99	5,767.0	
12	463	1,319.78	4,321.4	
13	1,005	6.30	9.5	
14	10,380	75.00	10.9	Upper Marker
15	12,640	0.00	0.0	

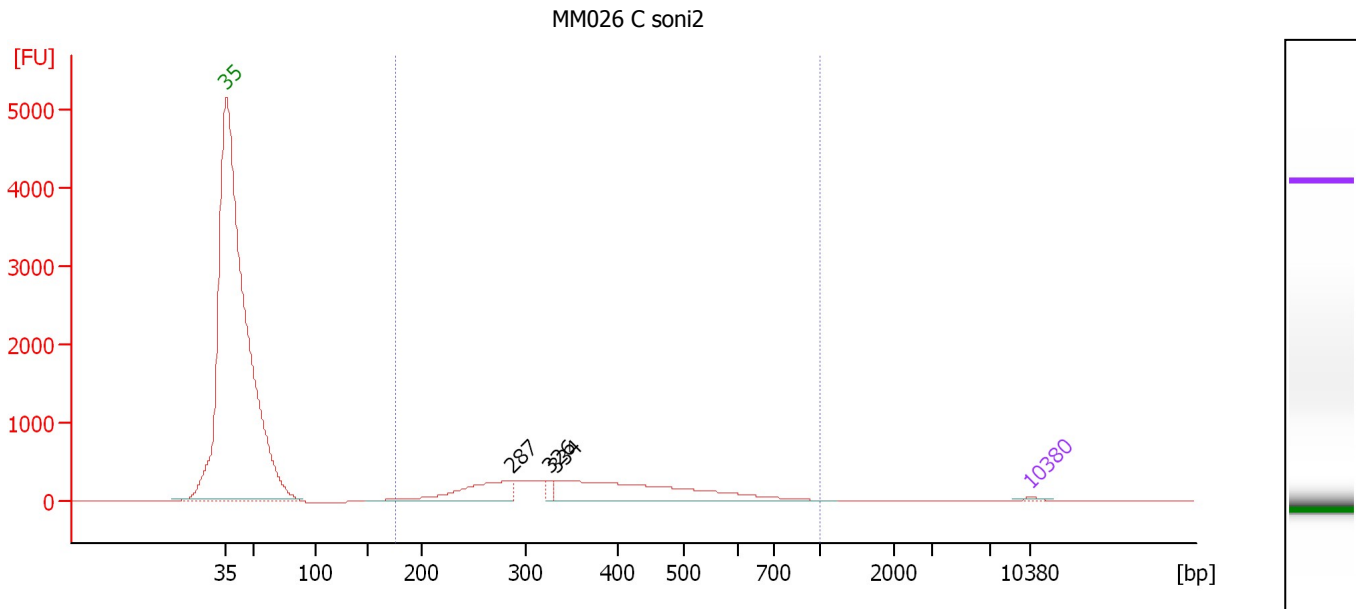
Region table for sample 8 : MM022 C soni2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
94	320	1,000	8,260.5	99	42.9	12,134.12	74,333.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
 Modified: 10/3/2014 1:46:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MM026 C soni2

Number of peaks found: 3 Corr. Area 1: 7,554.7
 Noise: 0.2

Peak table for sample 9 : MM026 C soni2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	287	3,182.68	16,803.9	
3	326	333.20	1,550.7	
4	334	7,067.19	32,094.8	
5	10,380	75.00	10.9	Upper Marker

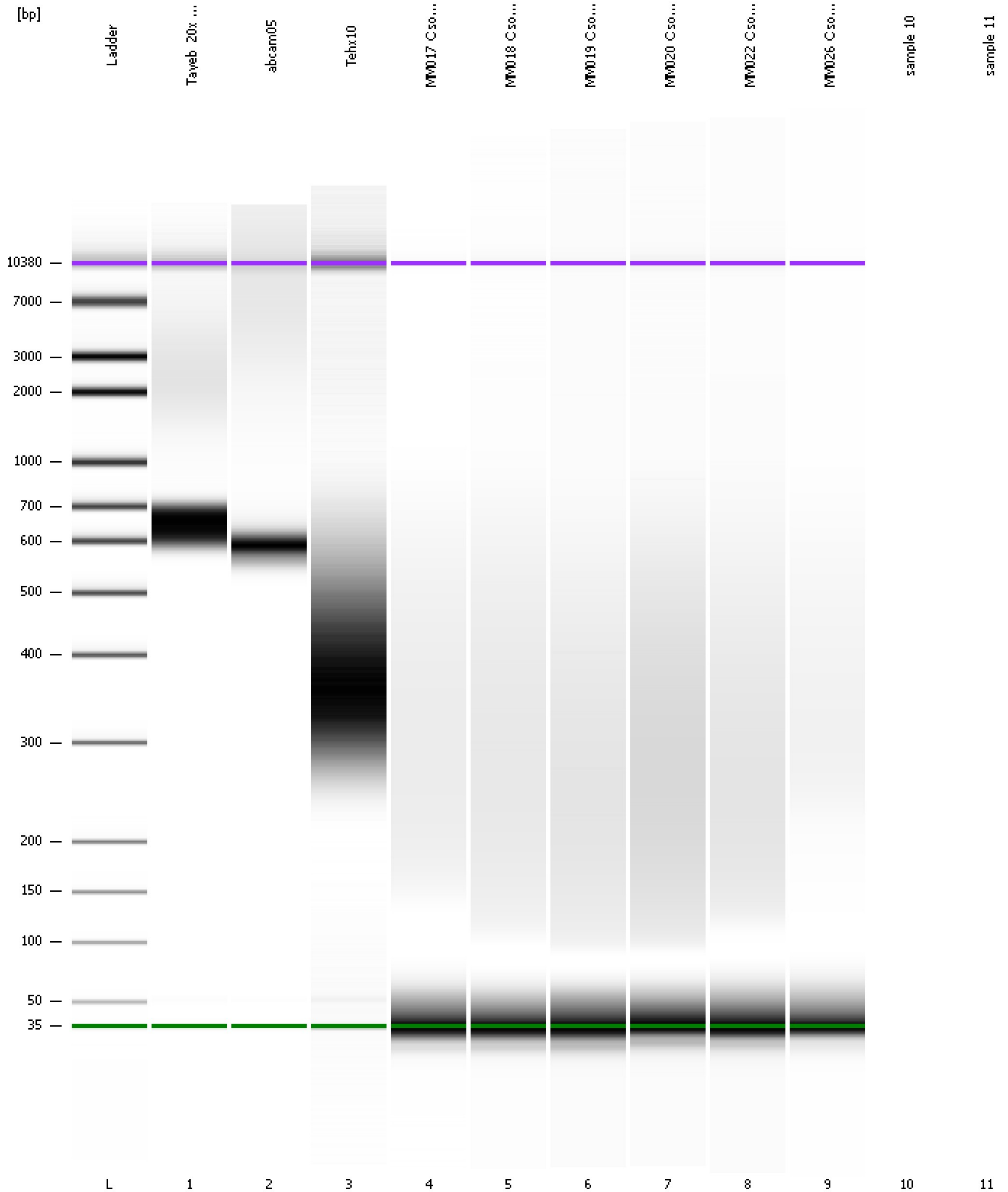
Region table for sample 9 : MM026 C soni2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
176	383	1,000	7,554.7	99	32.4	11,378.84	51,379.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
Modified: 10/3/2014 1:46:27 PM

Gel Image

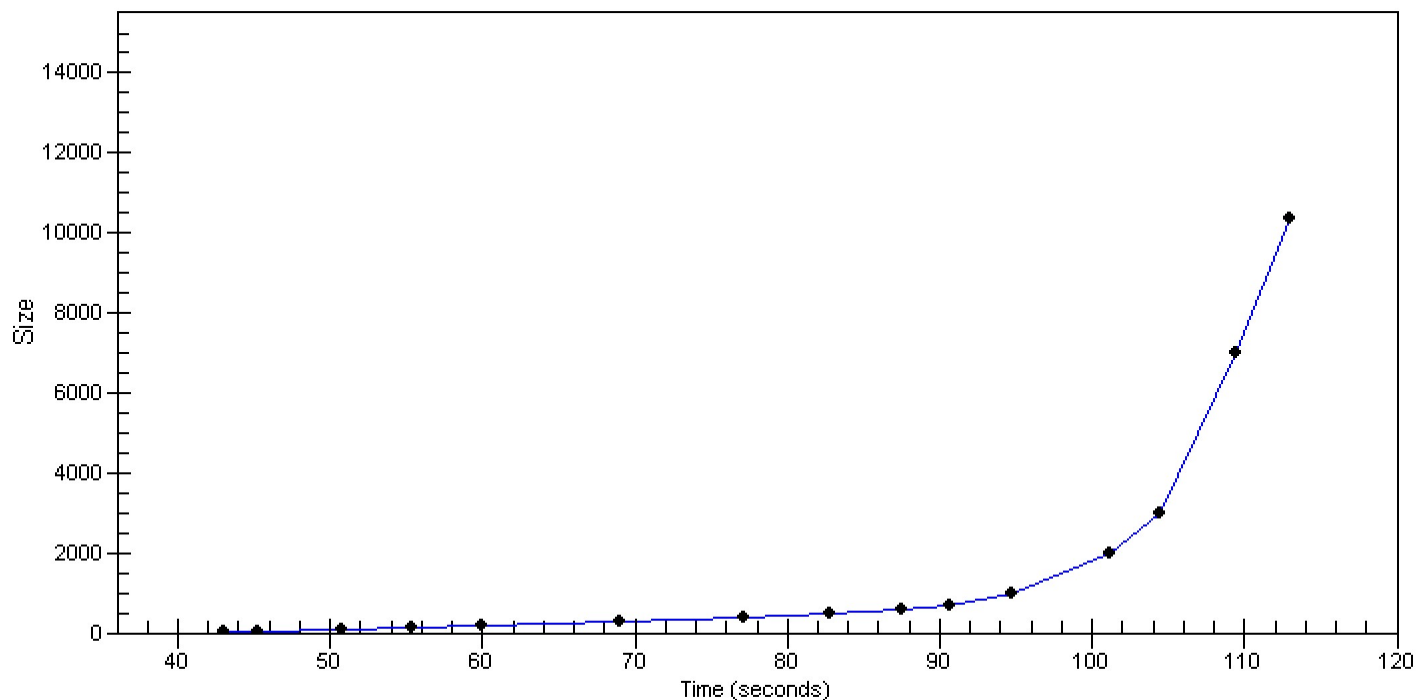


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
Modified: 10/3/2014 1:46:27 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
Modified: 10/3/2014 1:46:27 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad

Created: 10/3/2014 12:26:15 PM
 Modified: 10/3/2014 1:46:27 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		10/3/2014 1:01:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-03\2014-10-03_003.xad)		Instrument	Run		10/3/2014 12:26:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/3/2014 12:26:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/3/2014 12:26:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/3/2014 12:26:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/3/2014 12:26:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/3/2014 12:26:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/3/2014 12:26:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1