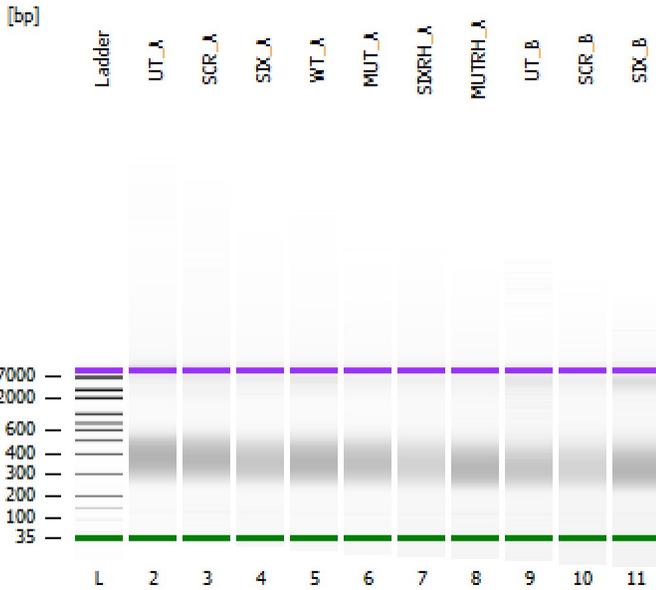


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
Modified: 10/16/2023 3:41:31 PM

Electrophoresis File Run Summary



Instrument Information:

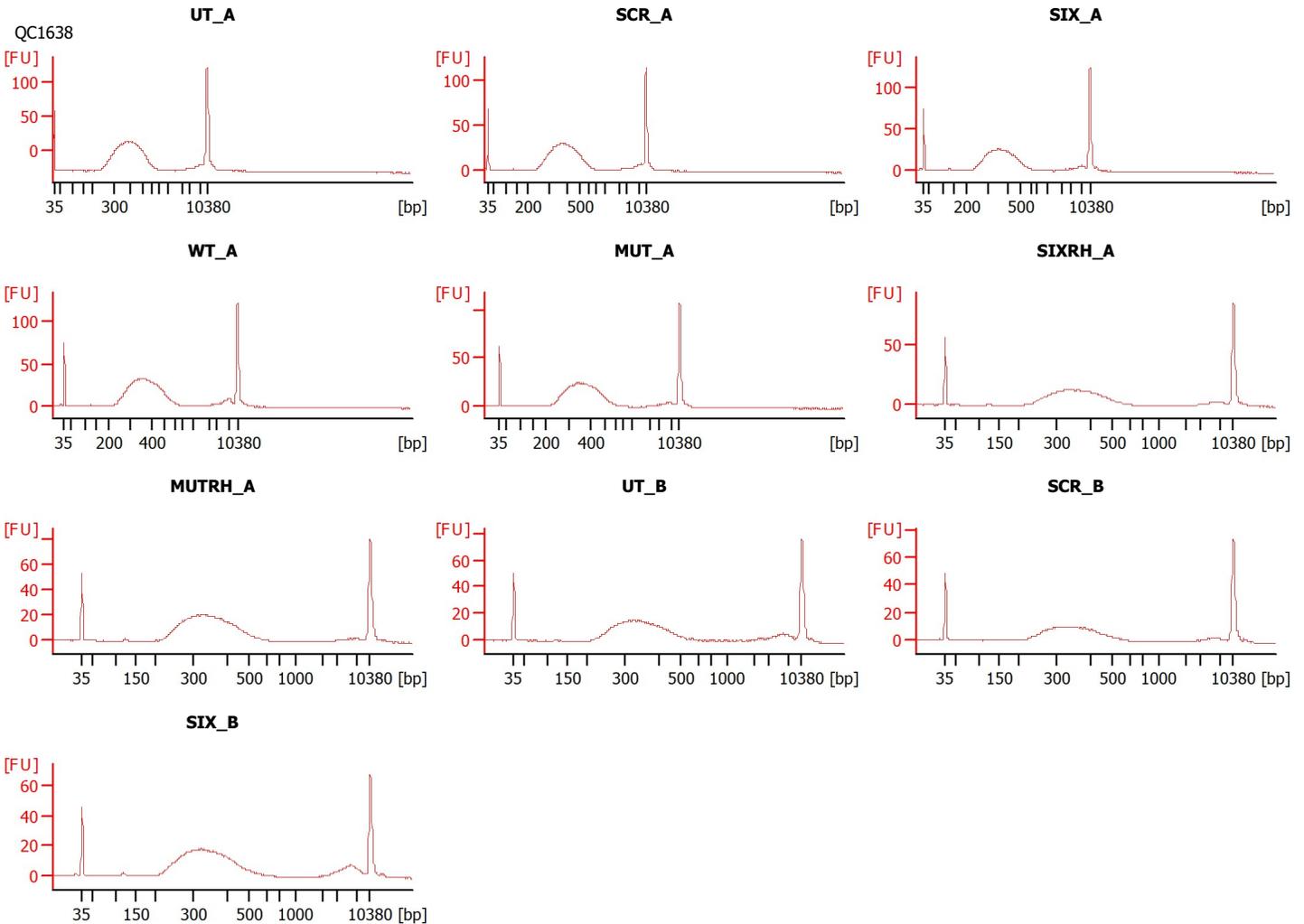
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
UT_A	QC1638	<input type="checkbox"/>		✓		
SCR_A		<input type="checkbox"/>		✓		
SIX_A		<input type="checkbox"/>		✓		
WT_A		<input type="checkbox"/>		✓		
MUT_A		<input type="checkbox"/>		✓		
SIXRH_A		<input type="checkbox"/>		✓		
MUTRH_A		<input type="checkbox"/>		✓		
UT_B		<input type="checkbox"/>		✓		
SCR_B		<input type="checkbox"/>		✓		
SIX_B		<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 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

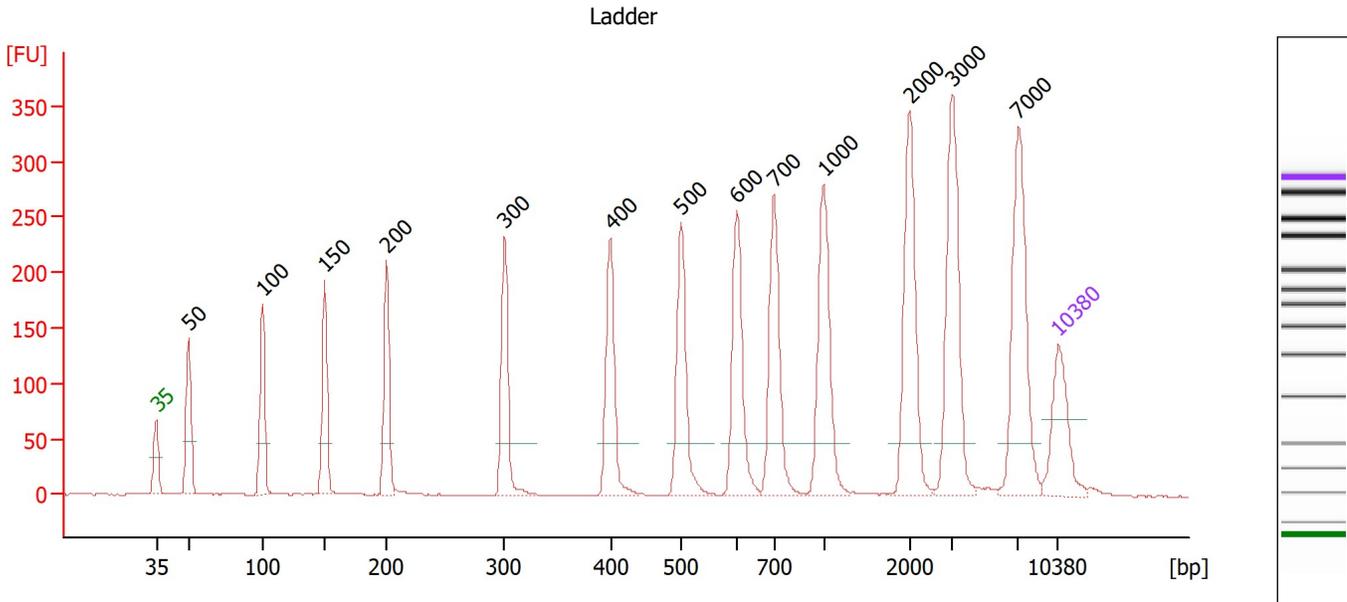
Ladder

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:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

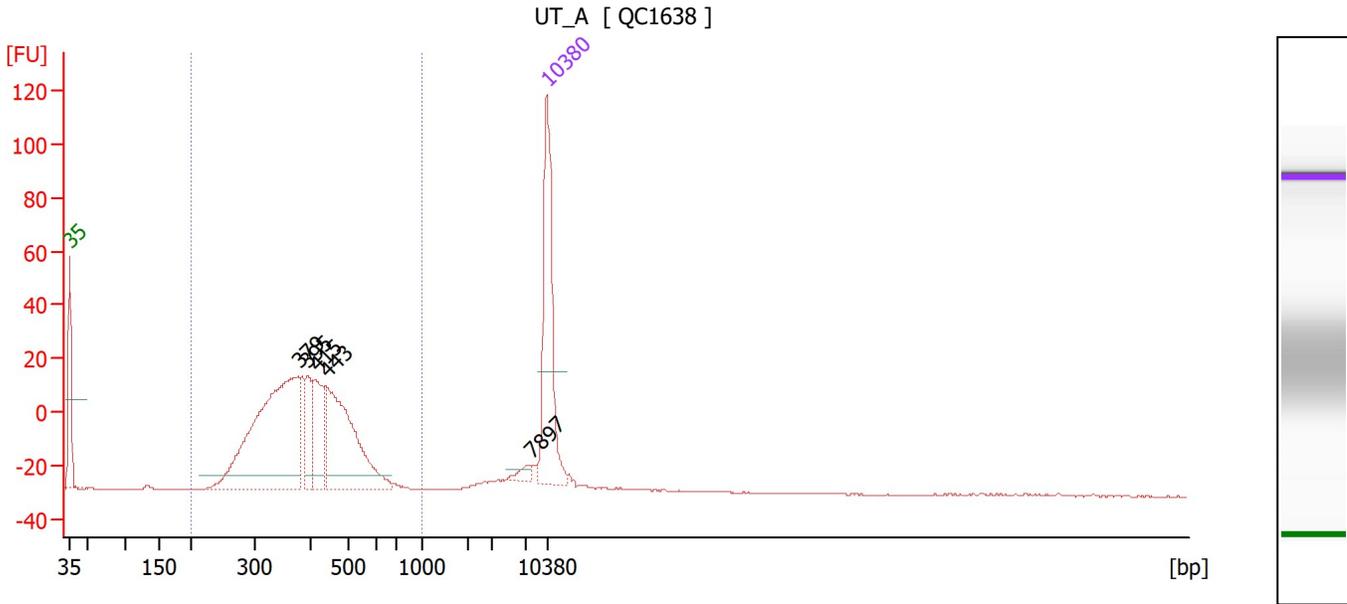
Peak table for Ladder

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:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : UT_A

Number of peaks found: 5 Corr. Area 1: 721.9
 Noise: 0.2

Peak table for sample 2 : UT_A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	379	220.38	881.9	
3	395	30.89	118.6	
4	415	43.40	158.5	
5	443	119.26	407.8	
6	7,897	5.08	1.0	
7	10,380	75.00	10.9	Upper Marker

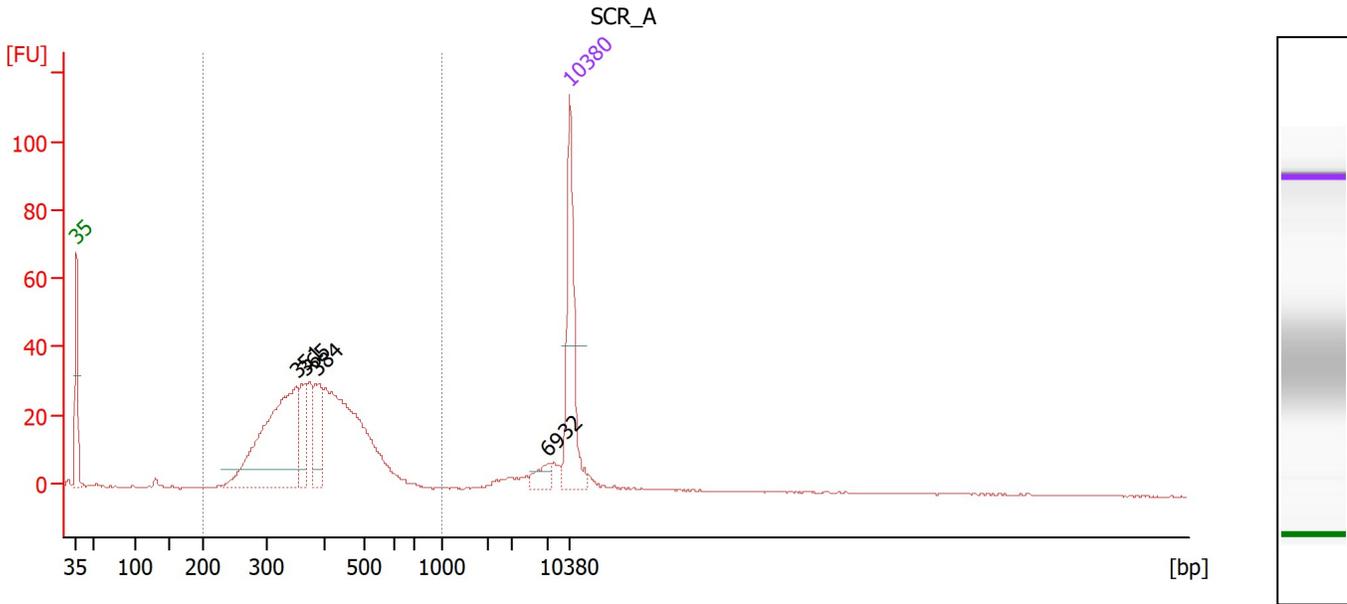
Region table for sample 2 : UT_A

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	721.9	94	399	20.1	435.93	1,746.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : SCR_A

Number of peaks found: 4 Corr. Area 1: 485.3
 Noise: 0.2

Peak table for sample 3 : SCR_A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	351	198.13	854.5	
3	365	39.55	164.1	
4	384	45.47	179.3	
5	6,932	10.64	2.3	
6	10,380	75.00	10.9	Upper Marker

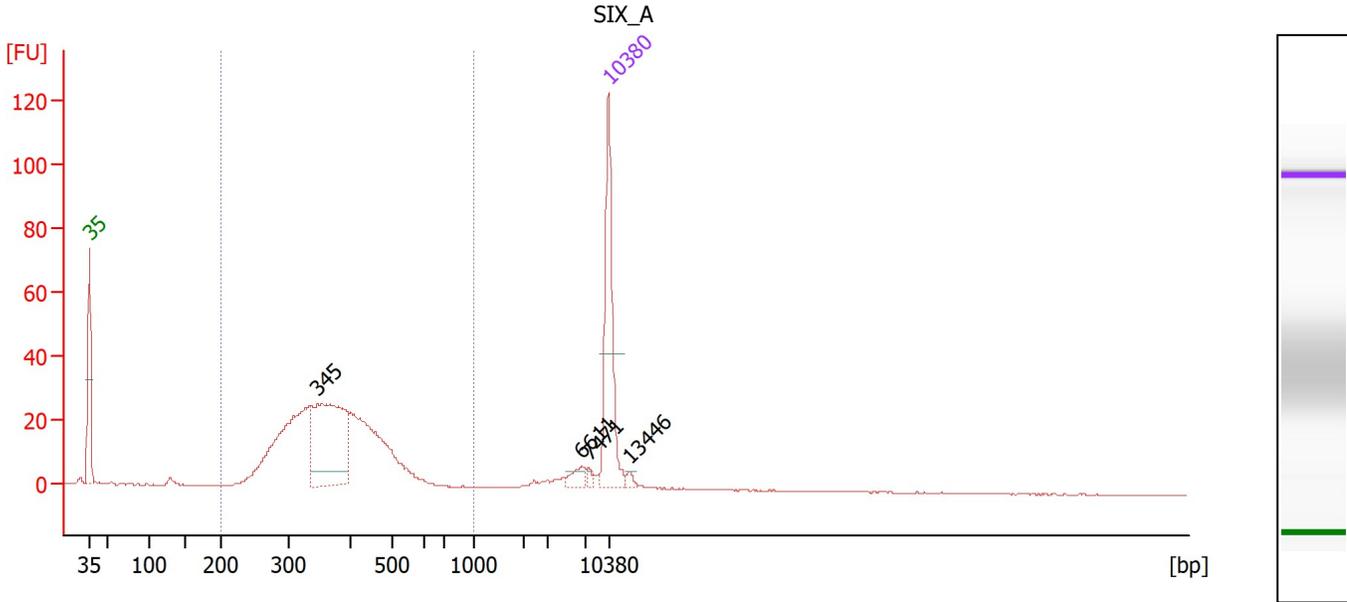
Region table for sample 3 : SCR_A

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	485.3	94	393	19.1	467.80	1,893.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SIX_A

Number of peaks found: 4 Corr. Area 1: 474.4
 Noise: 0.2

Peak table for sample 4 : SIX_A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	345	150.71	661.2	
3	6,611	8.42	1.9	
4	7,471	2.97	0.6	
5	10,380	75.00	10.9	Upper Marker
6	13,446	0.00	0.0	

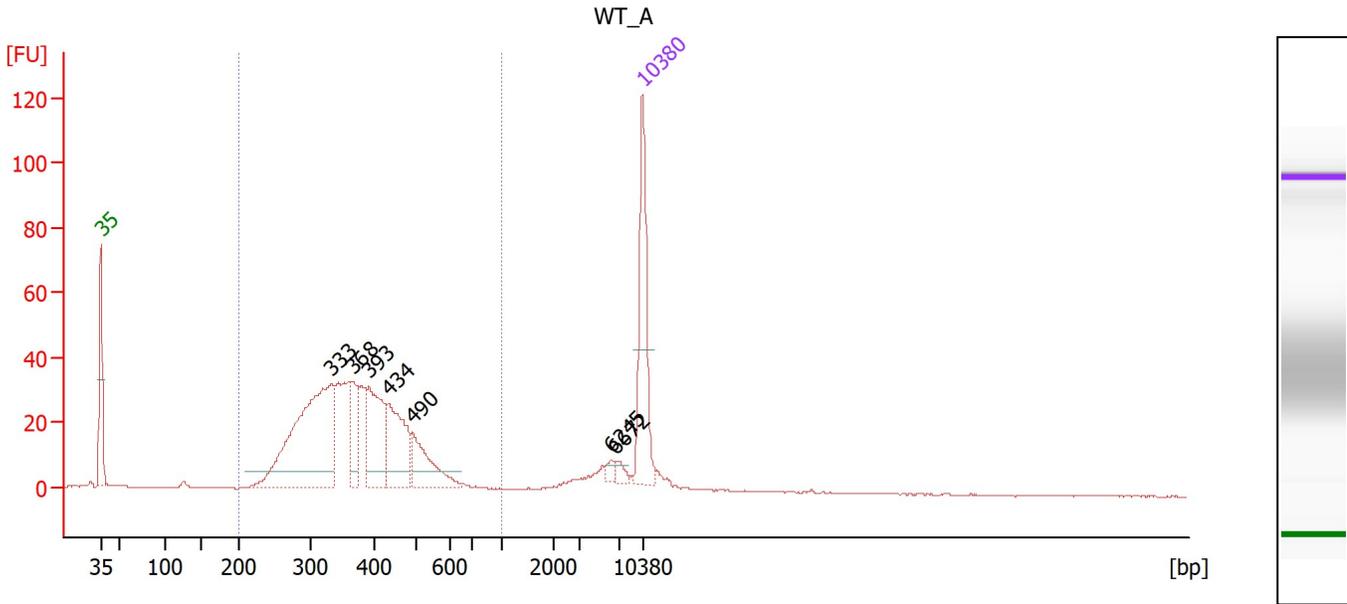
Region table for sample 4 : SIX_A

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	474.4	91	377	21.1	448.37	1,906.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WT_A

Number of peaks found: 7 Corr. Area 1: 644.5
 Noise: 0.2

Peak table for sample 5 : WT_A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	333	244.07	1,109.5	
3	368	34.40	141.5	
4	393	79.71	307.0	
5	434	76.11	265.9	
6	490	51.56	159.5	
7	6,245	4.71	1.1	
8	6,672	6.05	1.4	
9	10,380	75.00	10.9	Upper Marker

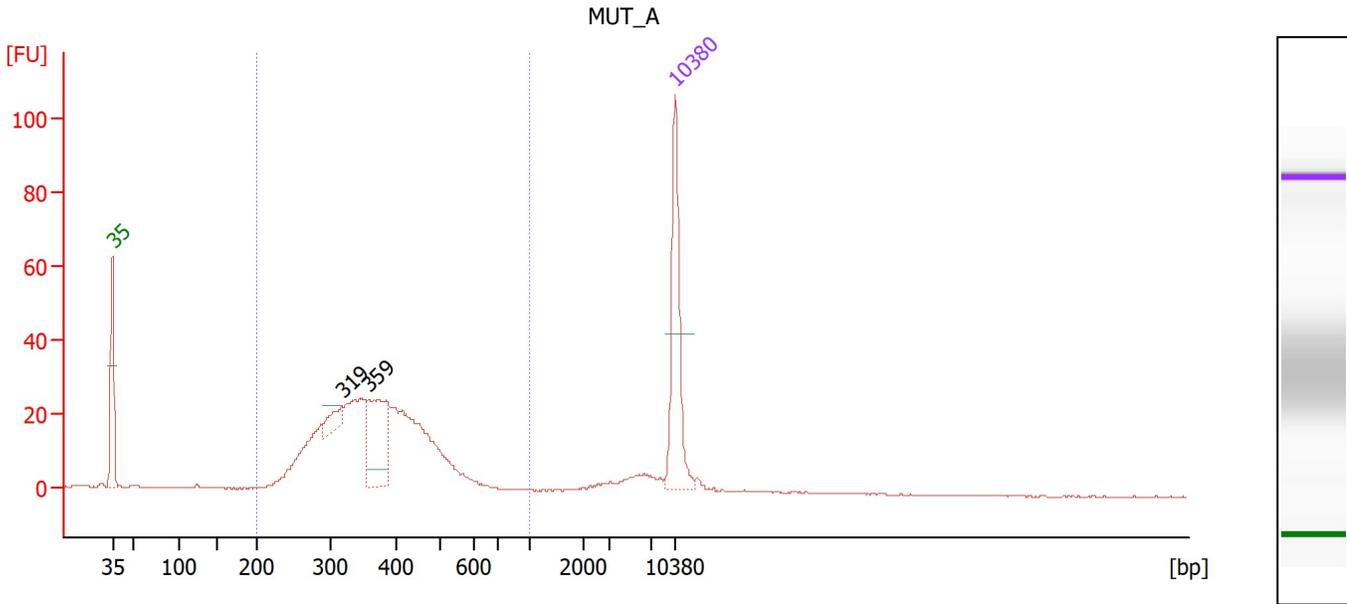
Region table for sample 5 : WT_A

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	644.5	89	381	23.3	641.09	2,727.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MUT_A

Number of peaks found: 2 Corr. Area 1: 475.0
 Noise: 0.2

Peak table for sample 6 : MUT_A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	319	18.17	86.4	
3	359	82.51	348.2	
4	10,380	75.00	10.9	Upper Marker

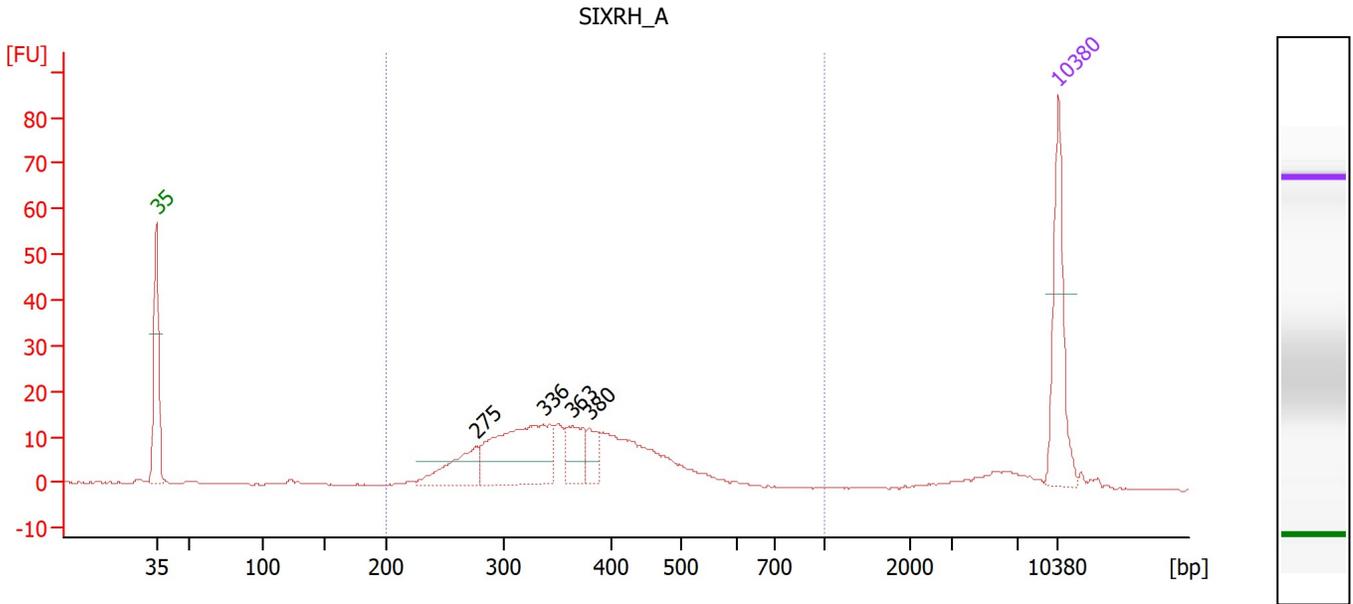
Region table for sample 6 : MUT_A

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	475.0	93	374	21.9	515.23	2,217.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : SIXRH_A

Number of peaks found: 4 Corr. Area 1: 264.6
 Noise: 0.1

Peak table for sample 7 : SIXRH_A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	275	56.16	309.4	
3	336	147.26	663.3	
4	363	41.56	173.3	
5	380	25.75	102.7	
6	10,380	75.00	10.9	Upper Marker

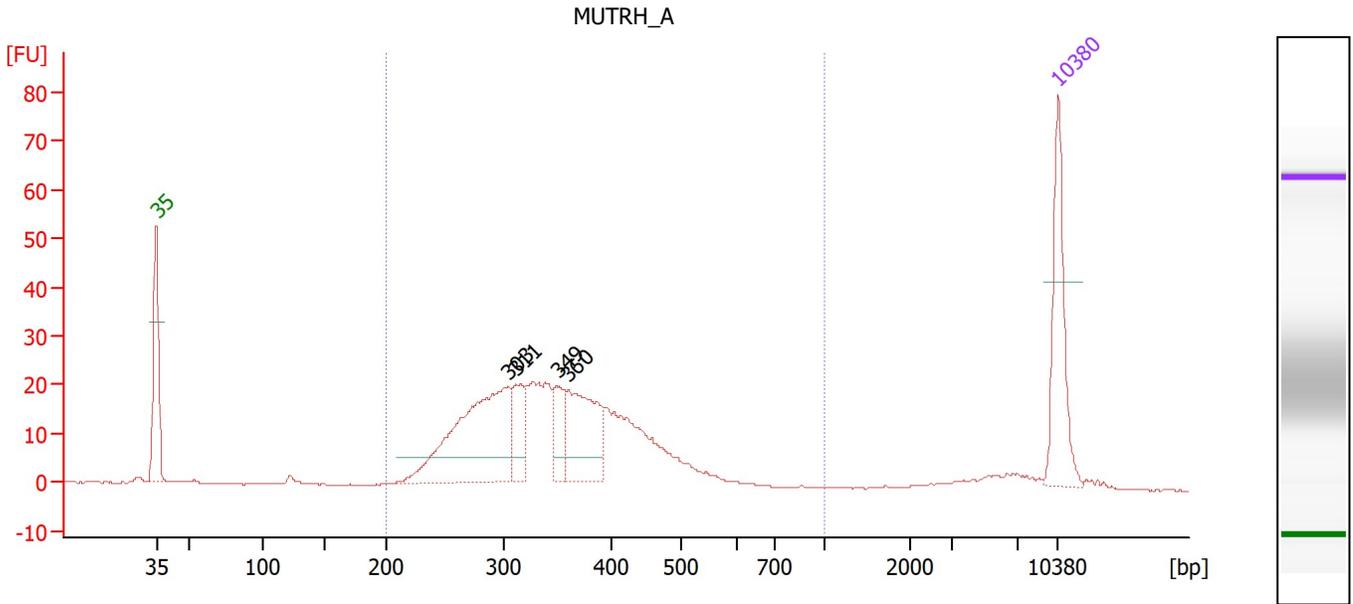
Region table for sample 7 : SIXRH_A

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	264.6	85	370	23.8	454.46	1,988.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MUTRH_A

Number of peaks found: 4 Corr. Area 1: 410.8
 Noise: 0.2

Peak table for sample 8 : MUTRH_A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	303	225.40	1,128.7	
3	311	48.80	237.4	
4	349	33.26	144.2	
5	360	107.41	452.2	
6	10,380	75.00	10.9	Upper Marker

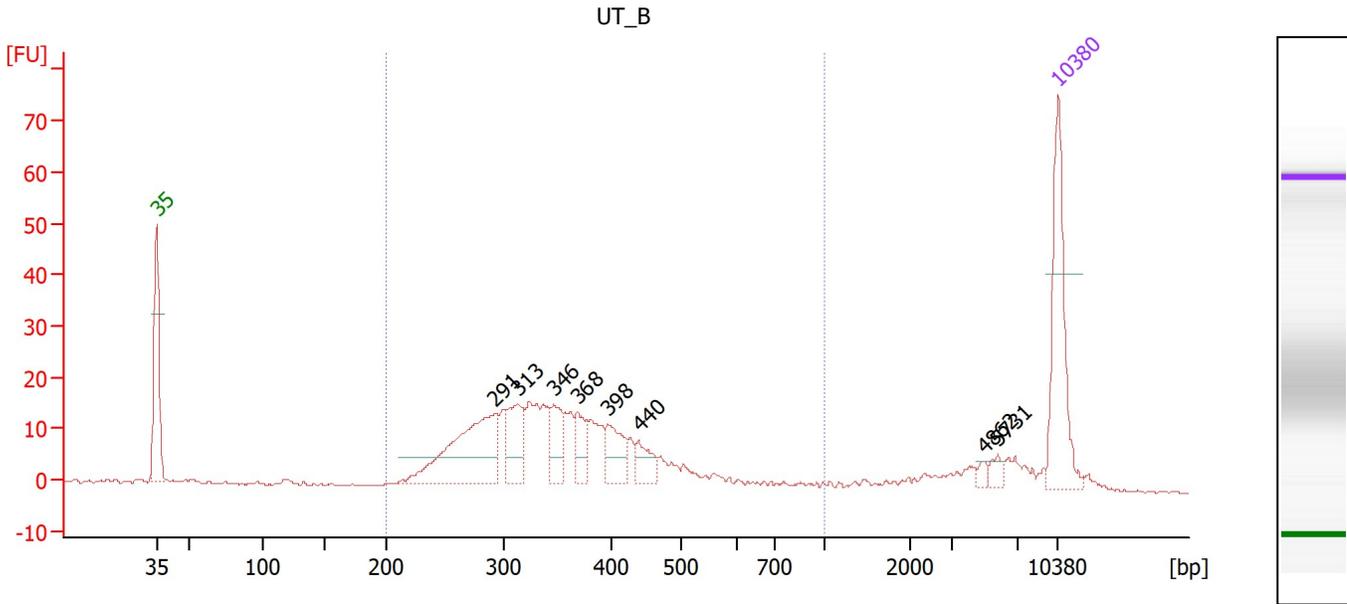
Region table for sample 8 : MUTRH_A

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	410.8	93	354	22.8	710.49	3,237.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : UT_B

Number of peaks found: 8 Corr. Area 1: 300.1
 Noise: 0.3

Peak table for sample 9 : UT_B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	291	131.03	681.2	
3	313	46.54	225.5	
4	346	33.20	145.2	
5	368	24.83	102.1	
6	398	33.29	126.8	
7	440	21.18	73.0	
8	4,862	4.19	1.3	
9	5,731	6.40	1.7	
10	10,380	75.00	10.9	Upper Marker

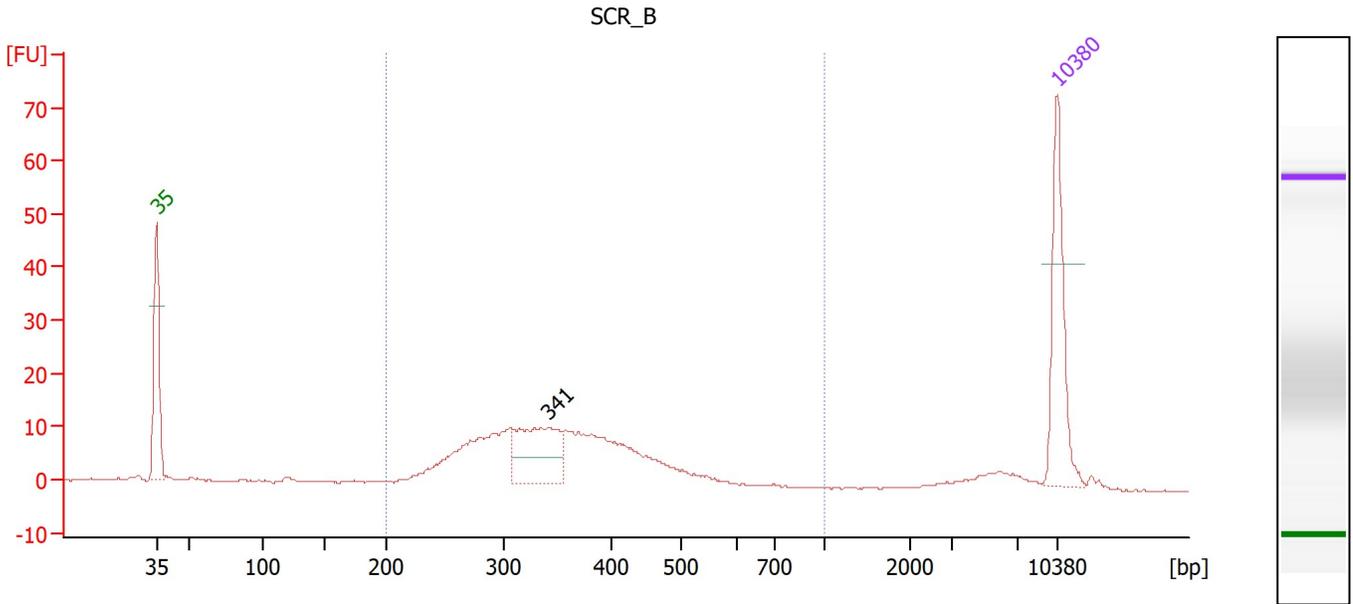
Region table for sample 9 : UT_B

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	300.1	85	360	26.4	501.17	2,271.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : SCR_B

Number of peaks found: 1 Corr. Area 1: 214.8
 Noise: 0.1

Peak table for sample 10 : SCR_B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	341	94.76	421.7	
3	10,380	75.00	10.9	Upper Marker

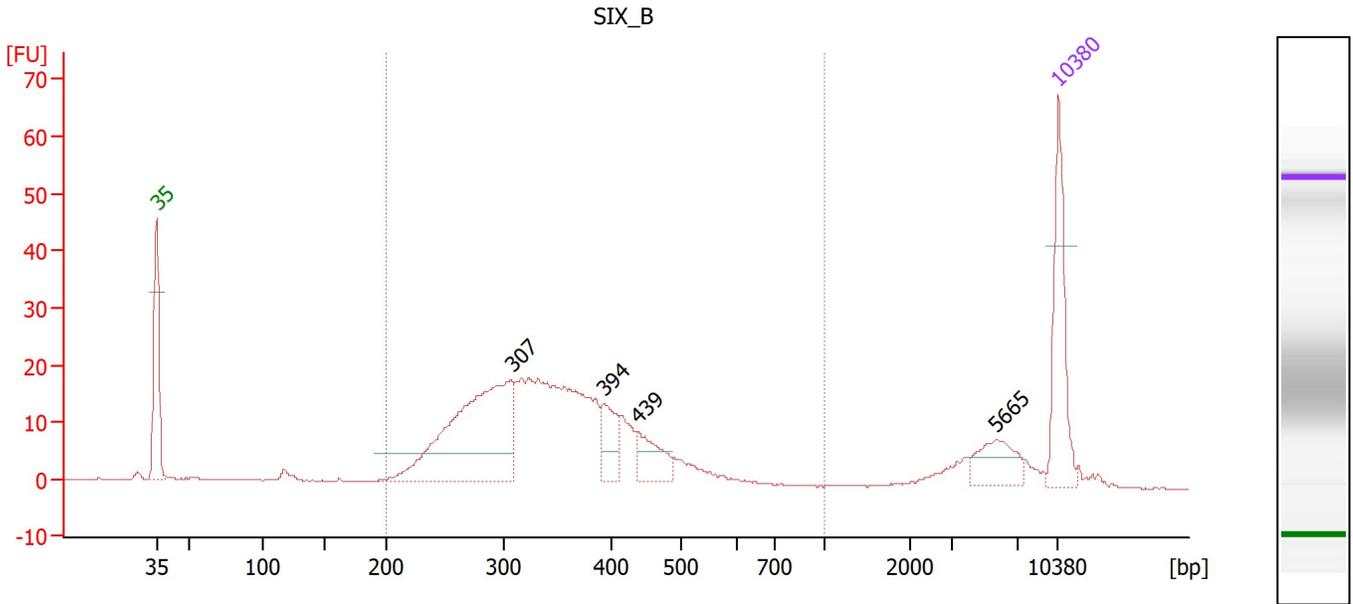
Region table for sample 10 : SCR_B

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	214.8	87	357	23.5	383.72	1,738.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : SIX_B

Number of peaks found: 4 Corr. Area 1: 375.3
 Noise: 0.1

Peak table for sample 11 : SIX_B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	307	276.57	1,366.8	
3	394	42.03	161.8	
4	439	40.06	138.3	
5	5,665	35.48	9.5	
6	10,380	75.00	10.9	Upper Marker

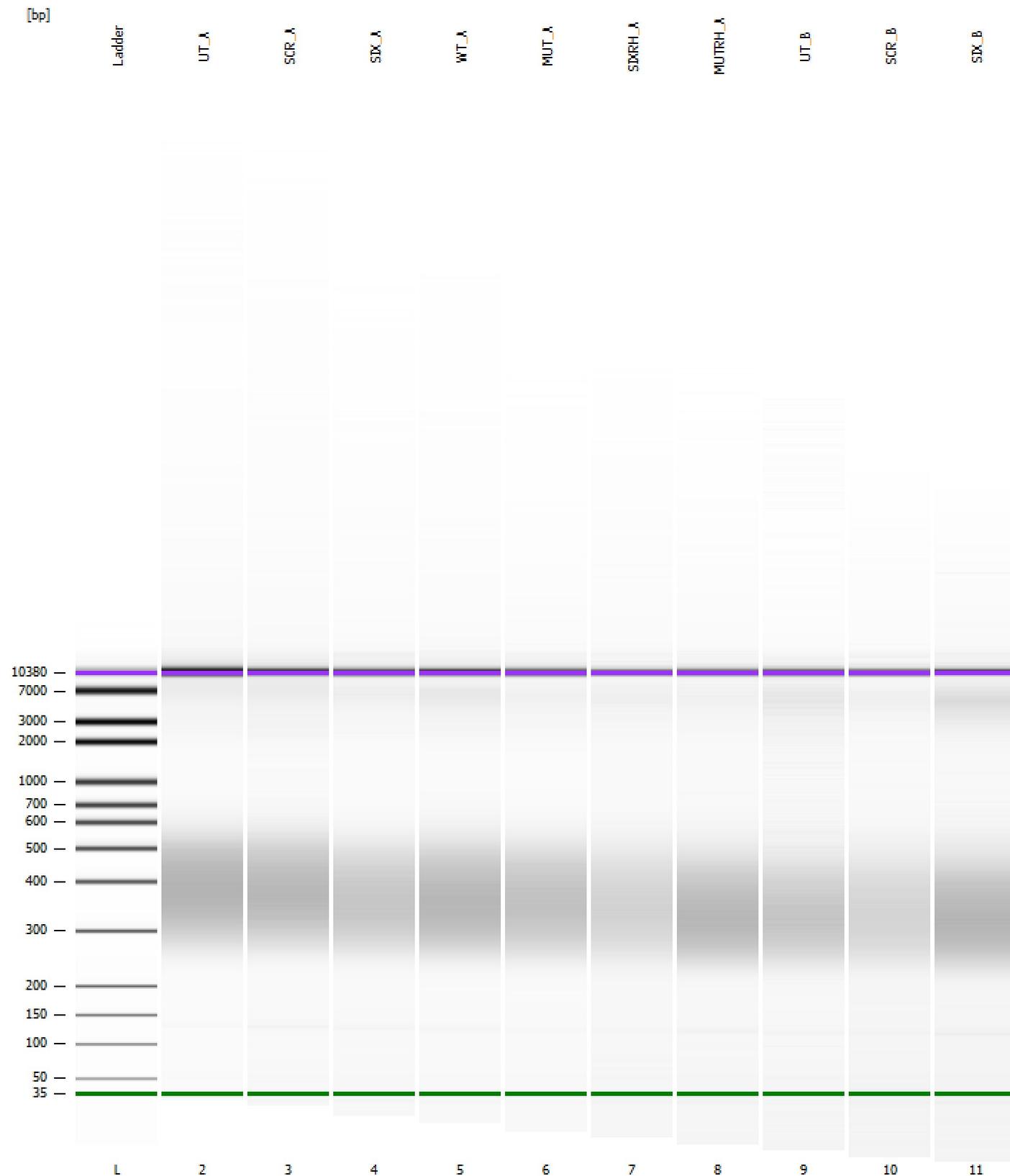
Region table for sample 11 : SIX_B

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	375.3	81	353	25.8	783.50	3,619.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
Modified: 10/16/2023 3:41:31 PM

Gel Image

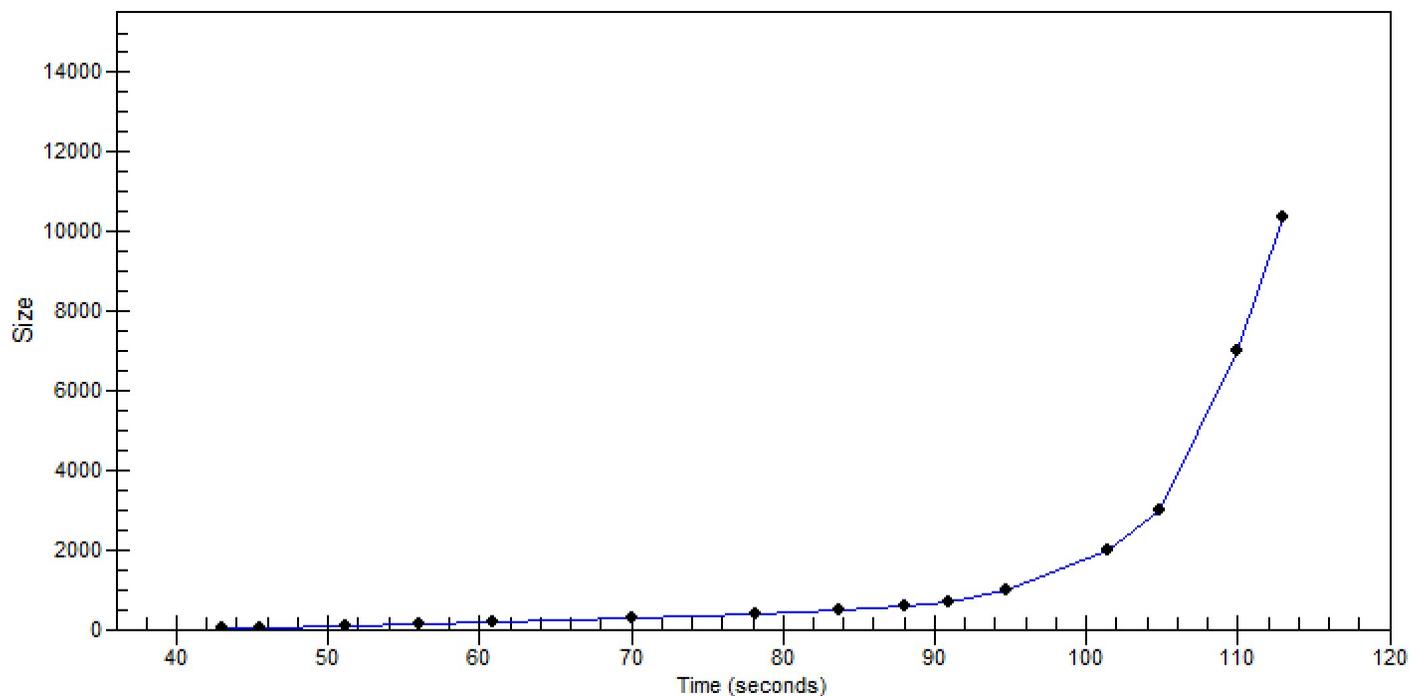


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
Modified: 10/16/2023 3:41:31 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Sensitivity DNA Assay_DE34903152_2023-10-16_002-QC1638.xad

Created: 10/16/2023 12:30:53 PM
 Modified: 10/16/2023 3:41:31 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		10/16/2023 1:11:14 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-10-16\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-10-16_002.xad)		Instrument	Run		10/16/2023 12:30:53 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		10/16/2023 12:30:53 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		10/16/2023 12:30:53 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		10/16/2023 12:30:53 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		10/16/2023 12:30:53 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		10/16/2023 12:30:53 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		10/16/2023 12:30:53 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB