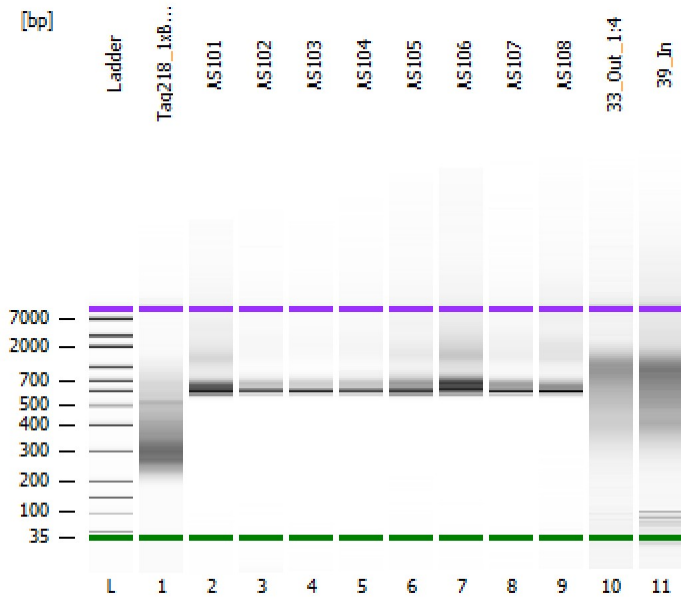


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
Modified: 11/13/2023 4:11:37 PM

Electrophoresis File Run Summary



Instrument Information:

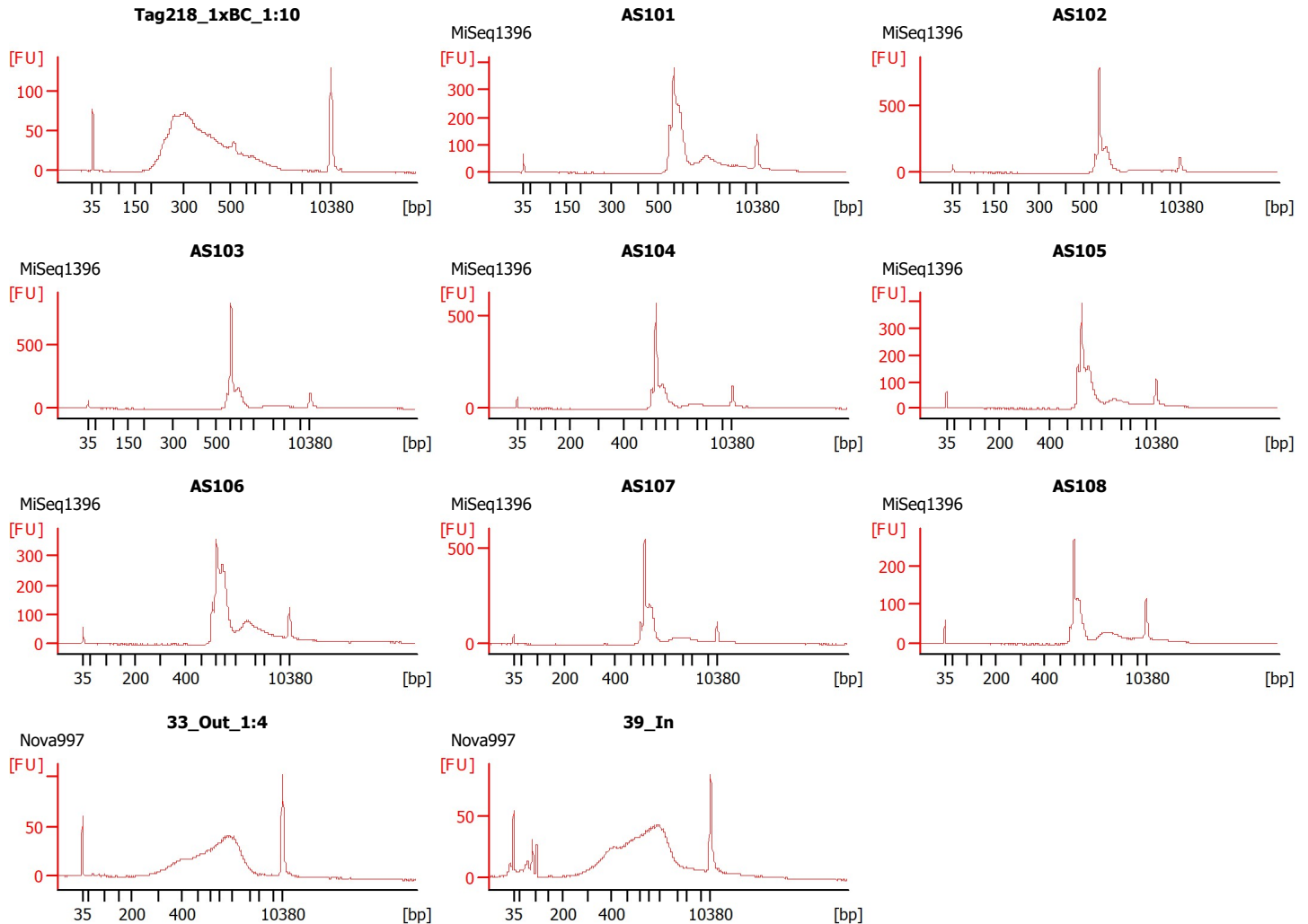
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Tag218_1xBC_1:10		<input type="checkbox"/>				
AS101	MiSeq1396	<input type="checkbox"/>		✓		
AS102	MiSeq1396	<input type="checkbox"/>		✓		
AS103	MiSeq1396	<input type="checkbox"/>		✓		
AS104	MiSeq1396	<input type="checkbox"/>		✓		
AS105	MiSeq1396	<input type="checkbox"/>		✓		
AS106	MiSeq1396	<input type="checkbox"/>		✓		
AS107	MiSeq1396	<input type="checkbox"/>		✓		
AS108	MiSeq1396	<input type="checkbox"/>		✓		
33_Out_1:4	Nova997	<input type="checkbox"/>		✓		
39_In	Nova997	<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 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

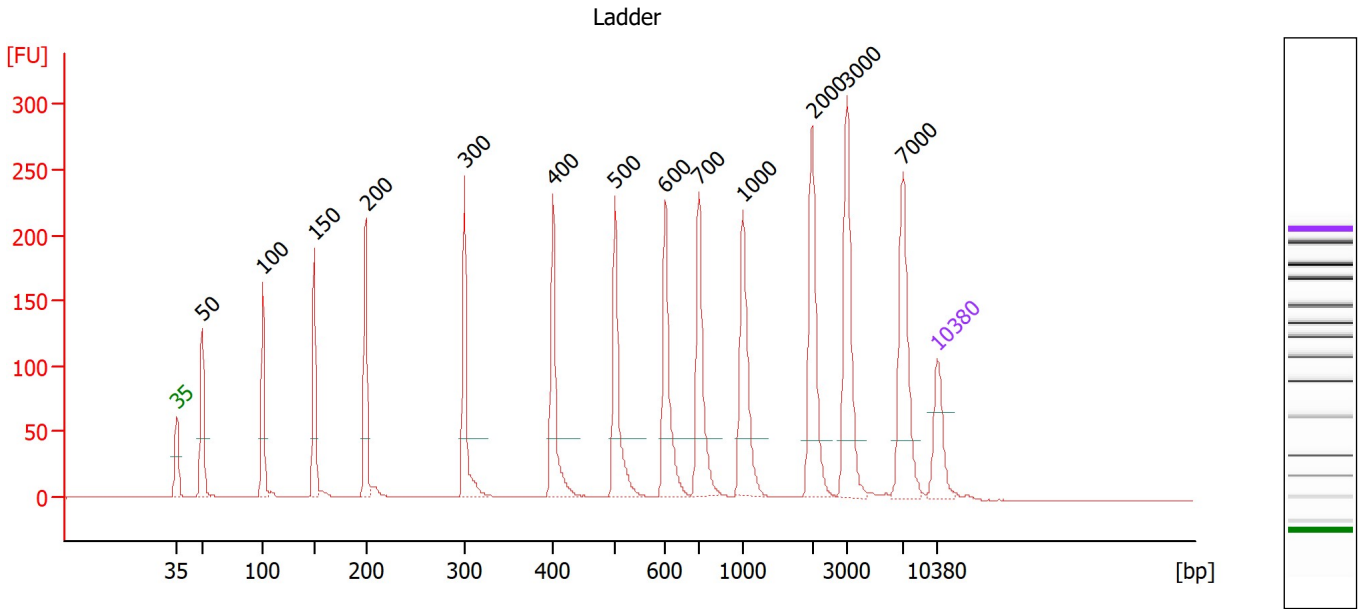
Ladder

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:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

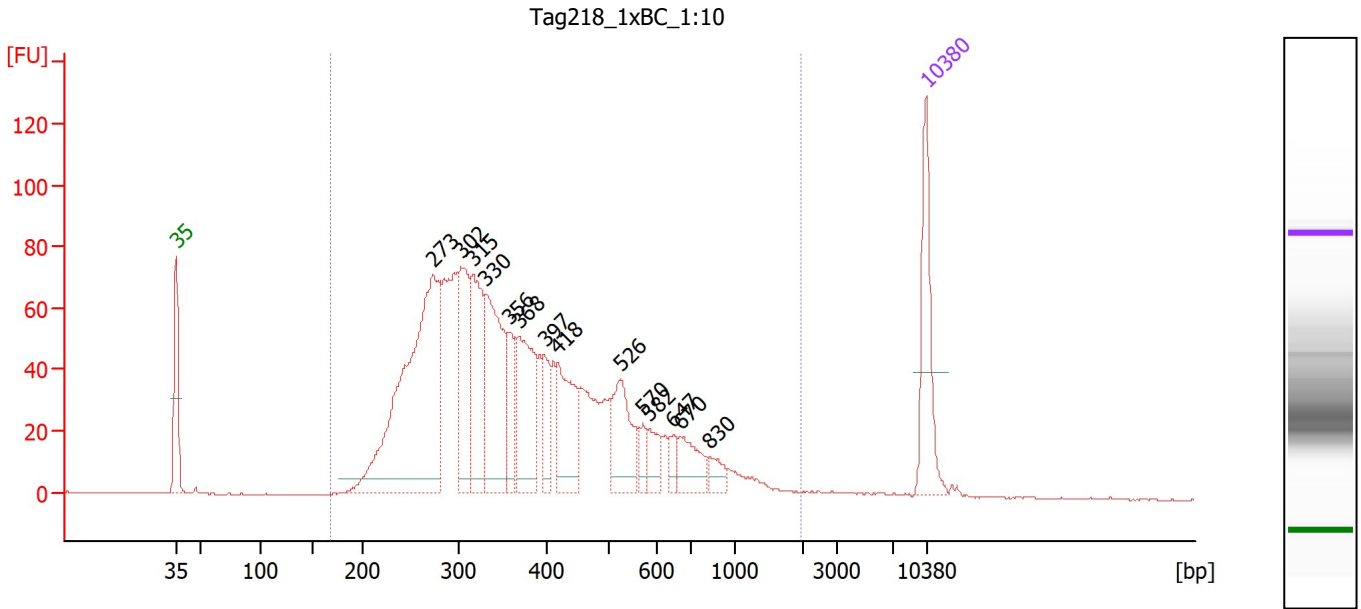
Peak table for Ladder

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:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Tag218_1xBC_1:10

Number of peaks found: 14 Corr. Area 1: 1,821.4
 Noise: 0.2

Peak table for sample 1 : Tag218_1xBC_1:10

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	273	475.68	2,642.8	
3	302	130.59	655.3	
4	315	134.51	646.2	
5	330	180.05	826.6	
6	356	53.47	227.8	
7	368	122.41	503.3	
8	397	44.07	168.4	
9	418	96.55	350.2	
10	526	81.32	234.3	
11	570	14.57	38.7	
12	582	27.19	70.8	
13	647	15.79	37.0	
14	670	42.80	96.9	
15	830	16.68	30.5	
16	10,380	75.00	10.9	Upper Marker

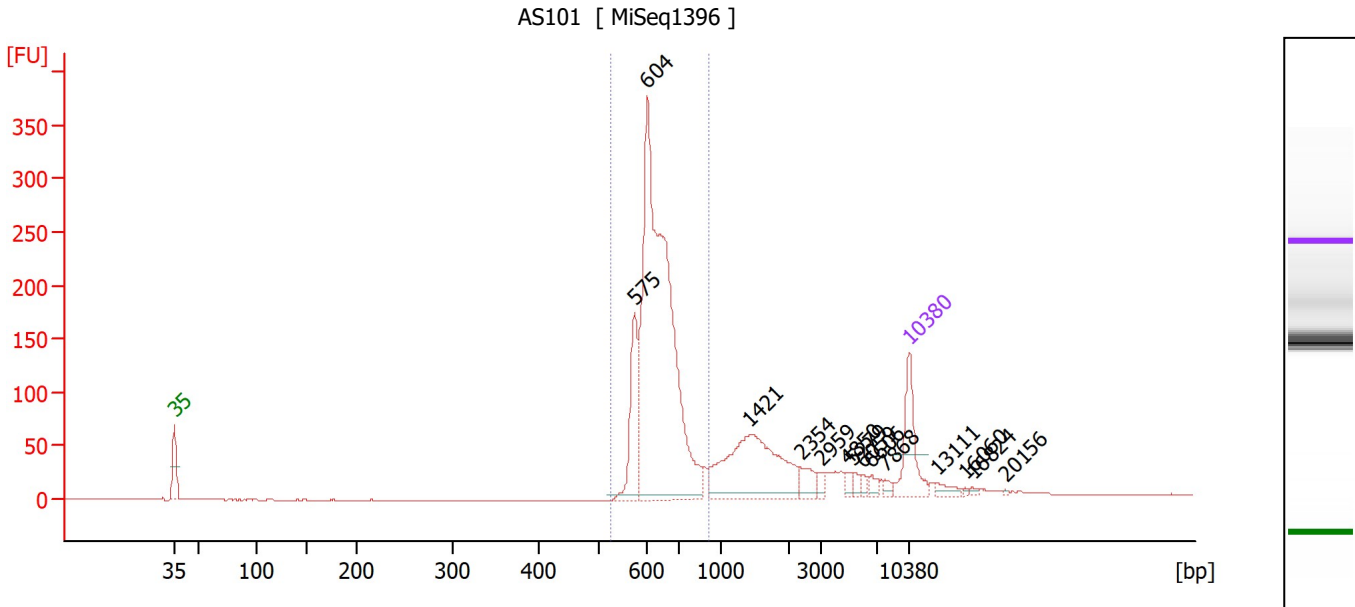
Region table for sample 1 : Tag218_1xBC_1:10

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
169	1,966	1,821.4	99	406	48.1	1,882.63	8,433.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AS101

Number of peaks found: 14 Corr. Area 1: 1,292.1
 Noise: 0.2

Peak table for sample 2 : AS101

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	575	125.94	331.9	
3	604	817.15	2,051.2	
4	1,421	234.52	250.0	
5	2,354	25.20	16.2	
6	2,959	10.06	5.2	
7	4,850	9.19	2.9	
8	5,279	9.26	2.7	
9	6,059	7.27	1.8	
10	6,606	10.55	2.4	
11	7,868	7.14	1.4	
12	10,380	75.00	10.9	Upper Marker
13	13,111	0.00	0.0	
14	16,060	0.00	0.0	
15	16,824	0.00	0.0	
16	20,156	0.00	0.0	

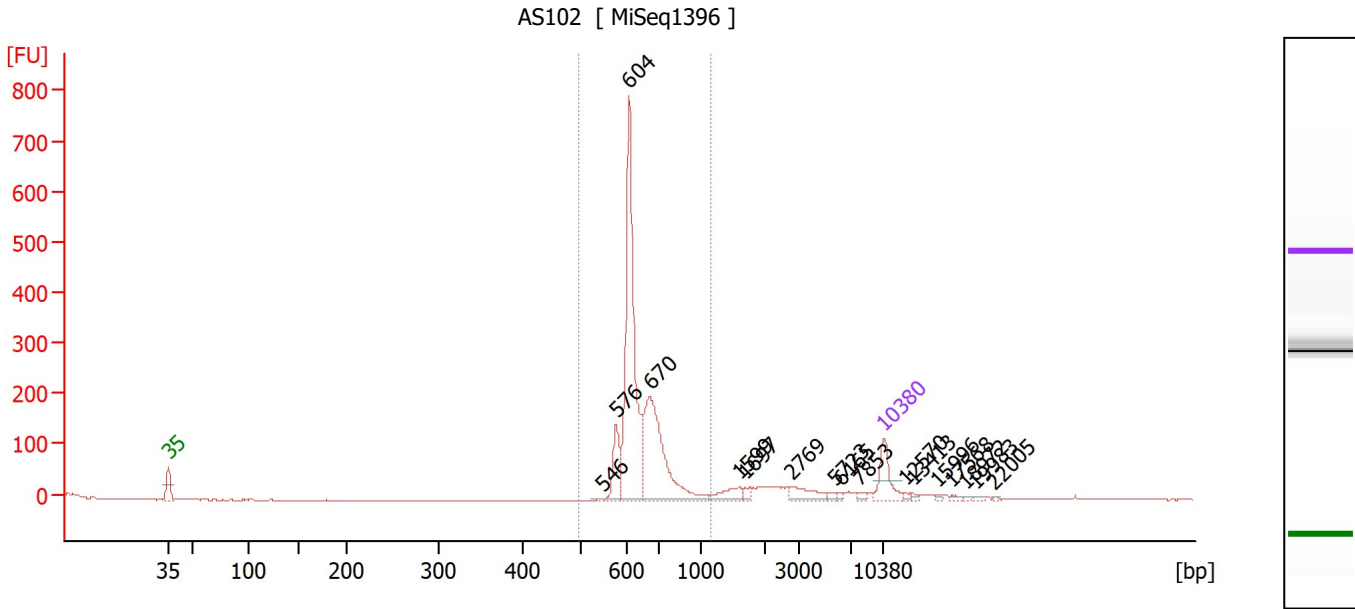
Region table for sample 2 : AS101

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
527	913	1,292.1	69	641	9.7	932.25	2,219.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : AS102

Number of peaks found: 17 Corr. Area 1: 1,407.4
 Noise: 0.4

Peak table for sample 3 : AS102

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	546	3.94	10.9	
3	576	97.47	256.5	
4	604	637.13	1,597.2	
5	670	429.80	971.6	
6	1,599	41.21	39.0	
7	1,697	11.09	9.9	
8	2,769	46.01	25.2	
9	5,723	8.28	2.2	
10	6,165	6.29	1.5	
11	7,853	8.31	1.6	
12	10,380	75.00	10.9	Upper Marker
13	12,570	0.00	0.0	
14	13,413	0.00	0.0	
15	15,996	0.00	0.0	
16	17,568	0.00	0.0	
17	18,972	0.00	0.0	
18	19,983	0.00	0.0	
19	22,005	0.00	0.0	

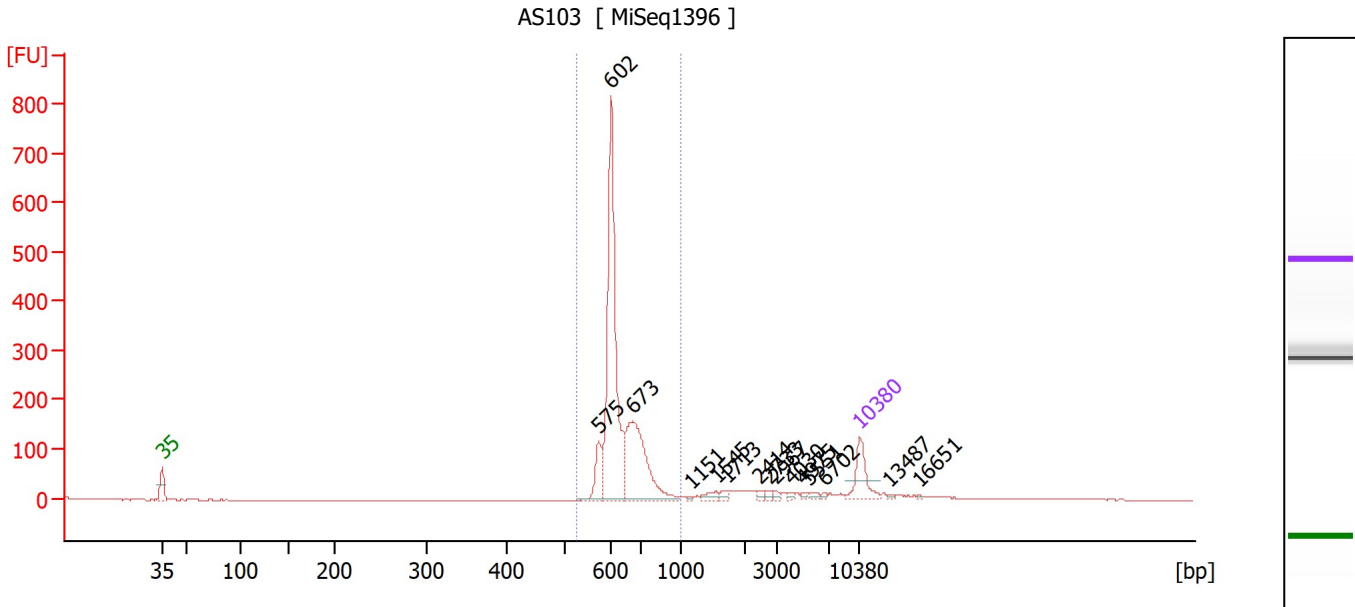
Region table for sample 3 : AS102

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
499	1,167	1,407.4	83	643	10.7	1,095.33	2,603.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : AS103

Number of peaks found: 15 Corr. Area 1: 1,370.4
 Noise: 0.5

Peak table for sample 4 : AS103

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	575	78.60	207.2	
3	602	615.05	1,548.0	
4	673	318.78	717.8	
5	1,151	3.51	4.6	
6	1,545	15.96	15.6	
7	1,713	10.93	9.7	
8	2,414	8.37	5.3	
9	2,733	8.82	4.9	
10	2,967	6.45	3.3	
11	4,030	5.95	2.2	
12	4,975	5.35	1.6	
13	5,551	8.38	2.3	
14	6,702	4.67	1.1	
15	10,380	75.00	10.9	Upper Marker
16	13,487	0.00	0.0	
17	16,651	0.00	0.0	

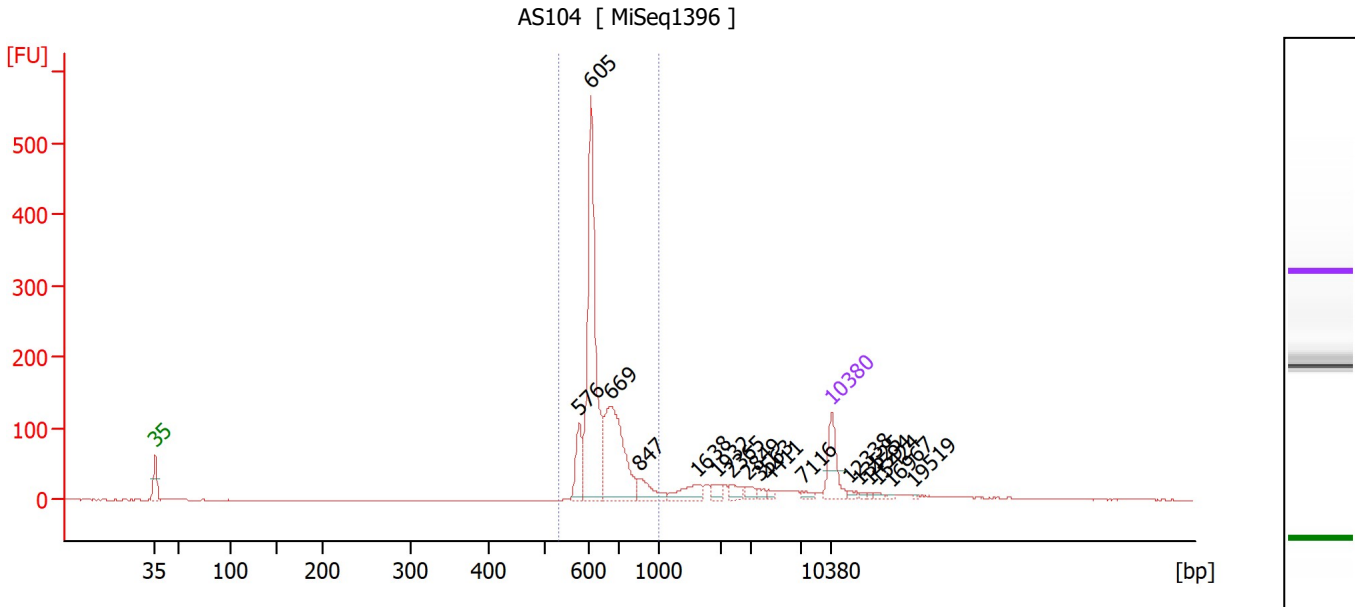
Region table for sample 4 : AS103

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
526	1,000	1,370.4	81	637	9.8	994.38	2,381.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AS104

Number of peaks found: 17 Corr. Area 1: 1,060.2
 Noise: 0.3

Peak table for sample 5 : AS104

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	576	84.14	221.4	
3	605	515.40	1,290.6	
4	669	301.02	681.4	
5	847	51.64	92.4	
6	1,638	42.55	39.4	
7	1,932	18.41	14.4	
8	2,365	20.64	13.2	
9	2,849	14.96	8.0	
10	3,563	9.77	4.2	
11	4,411	7.66	2.6	
12	7,116	10.12	2.2	
13	10,380	75.00	10.9	Upper Marker
14	12,338	0.00	0.0	
15	13,525	0.00	0.0	
16	14,594	0.00	0.0	
17	15,424	0.00	0.0	
18	16,967	0.00	0.0	
19	19,519	0.00	0.0	

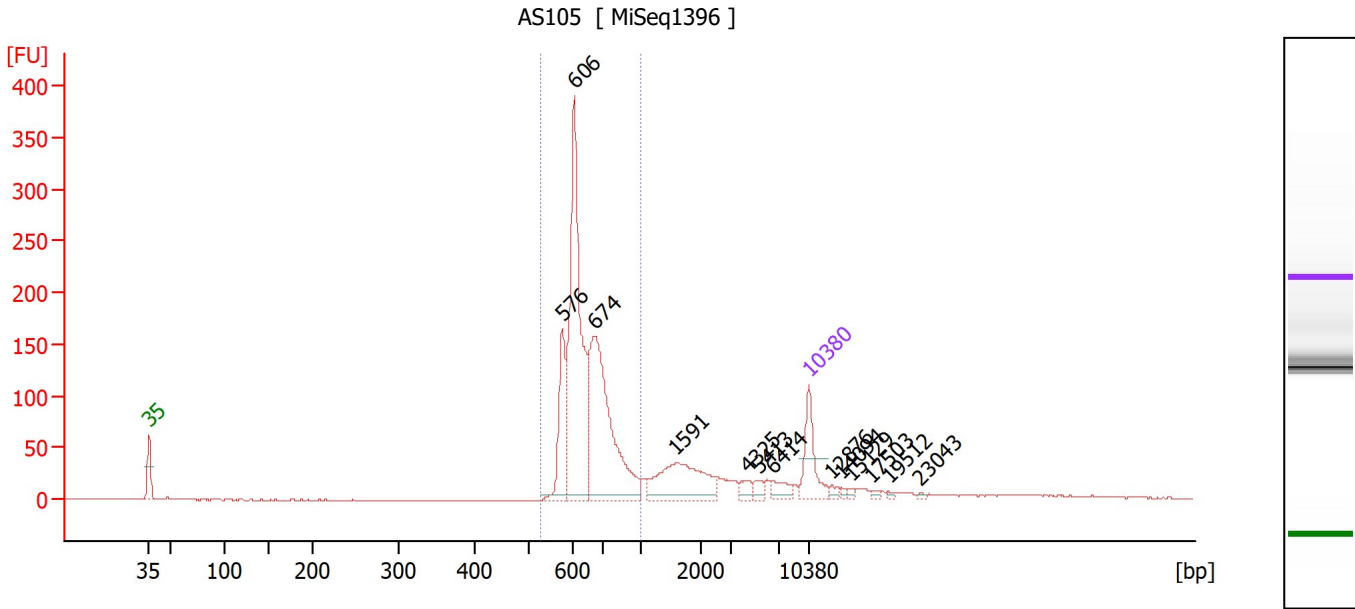
Region table for sample 5 : AS104

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
530	1,000	1,060.2	75	649	11.9	935.38	2,207.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : AS105

Number of peaks found: 13 Corr. Area 1: 1,159.0
 Noise: 0.4

Peak table for sample 6 : AS105

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	576	134.22	353.1	
3	606	479.33	1,198.0	
4	674	418.49	940.9	
5	1,591	151.53	144.3	
6	4,325	16.51	5.8	
7	5,413	13.40	3.8	
8	6,414	25.75	6.1	
9	10,380	75.00	10.9	Upper Marker
10	12,876	0.00	0.0	
11	14,094	0.00	0.0	
12	15,129	0.00	0.0	
13	17,503	0.00	0.0	
14	19,512	0.00	0.0	
15	23,043	0.00	0.0	

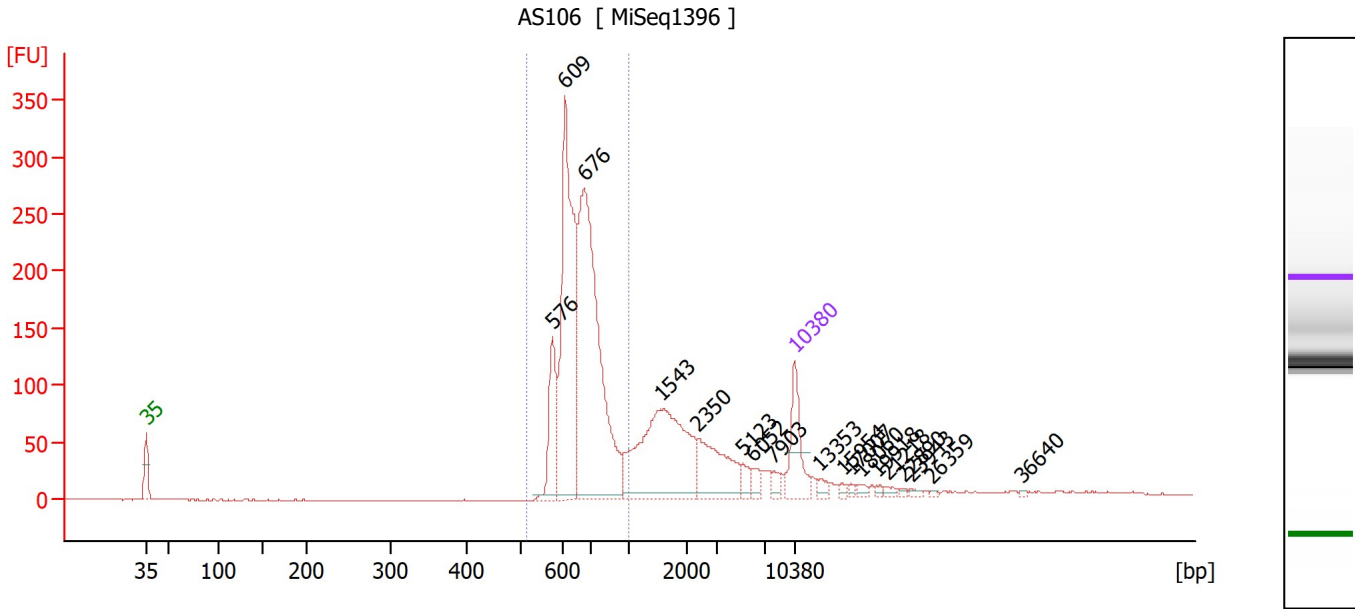
Region table for sample 6 : AS105

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
526	1,000	1,159.0	71	658	13.0	1,010.19	2,360.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : AS106

Number of peaks found: 18 Corr. Area 1: 1,491.0
 Noise: 0.3

Peak table for sample 7 : AS106

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	576	110.00	289.3	
3	609	443.42	1,103.0	
4	676	613.48	1,374.8	
5	1,543	312.27	306.5	
6	2,350	115.16	74.3	
7	5,123	17.75	5.3	
8	6,052	14.46	3.6	
9	7,903	13.82	2.7	
10	10,380	75.00	10.9	Upper Marker
11	13,353	0.00	0.0	
12	15,954	0.00	0.0	
13	17,007	0.00	0.0	
14	18,060	0.00	0.0	
15	19,918	0.00	0.0	
16	21,218	0.00	0.0	
17	22,890	0.00	0.0	
18	23,943	0.00	0.0	
19	26,359	0.00	0.0	
20	36,640	0.00	0.0	

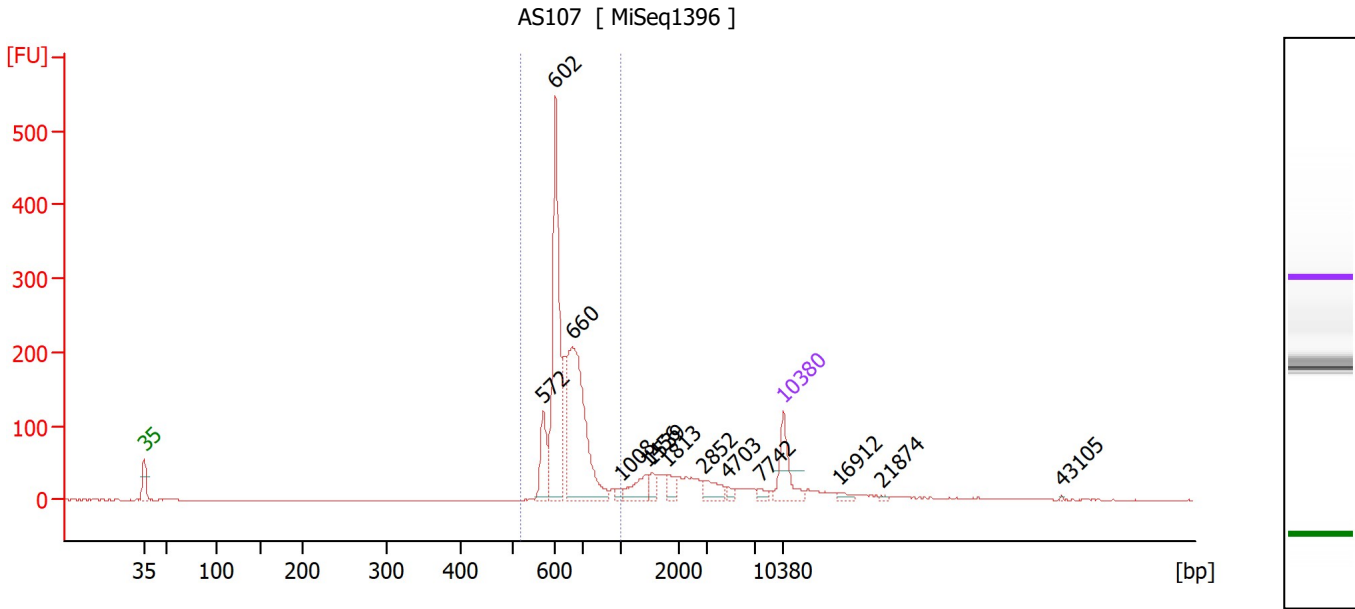
Region table for sample 7 : AS106

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
517	1,000	1,491.0	63	677	13.0	1,159.50	2,630.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : AS107

Number of peaks found: 13 Corr. Area 1: 1,216.2
 Noise: 0.4

Peak table for sample 8 : AS107

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	572	84.41	223.6	
3	602	389.72	981.6	
4	660	428.17	982.9	
5	1,008	10.68	16.1	
6	1,456	45.28	47.1	
7	1,539	22.70	22.3	
8	1,813	22.13	18.5	
9	2,852	36.92	19.6	
10	4,703	10.39	3.3	
11	7,742	10.85	2.1	
12	10,380	75.00	10.9	Upper Marker
13	16,912	0.00	0.0	
14	21,874	0.00	0.0	
15	43,105	0.00	0.0	

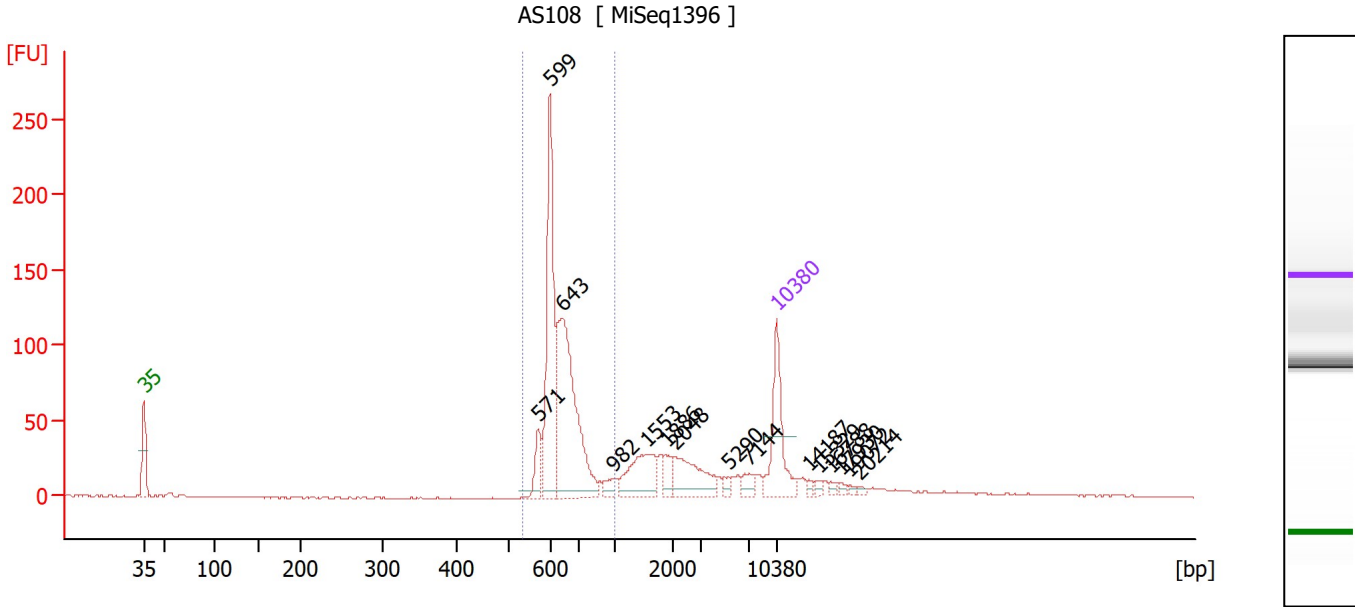
Region table for sample 8 : AS107

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
519	1,000	1,216.2	71	647	10.6	977.67	2,308.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : AS108

Number of peaks found: 15 Corr. Area 1: 618.0
 Noise: 0.5

Peak table for sample 9 : AS108

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	571	32.73	86.8	
3	599	205.77	520.1	
4	643	254.27	599.2	
5	982	11.89	18.4	
6	1,553	67.06	65.4	
7	1,886	17.38	14.0	
8	2,048	59.93	44.3	
9	5,290	7.17	2.1	
10	7,144	12.60	2.7	
11	10,380	75.00	10.9	Upper Marker
12	14,187	0.00	0.0	
13	15,329	0.00	0.0	
14	16,788	0.00	0.0	
15	17,930	0.00	0.0	
16	19,072	0.00	0.0	
17	20,214	0.00	0.0	

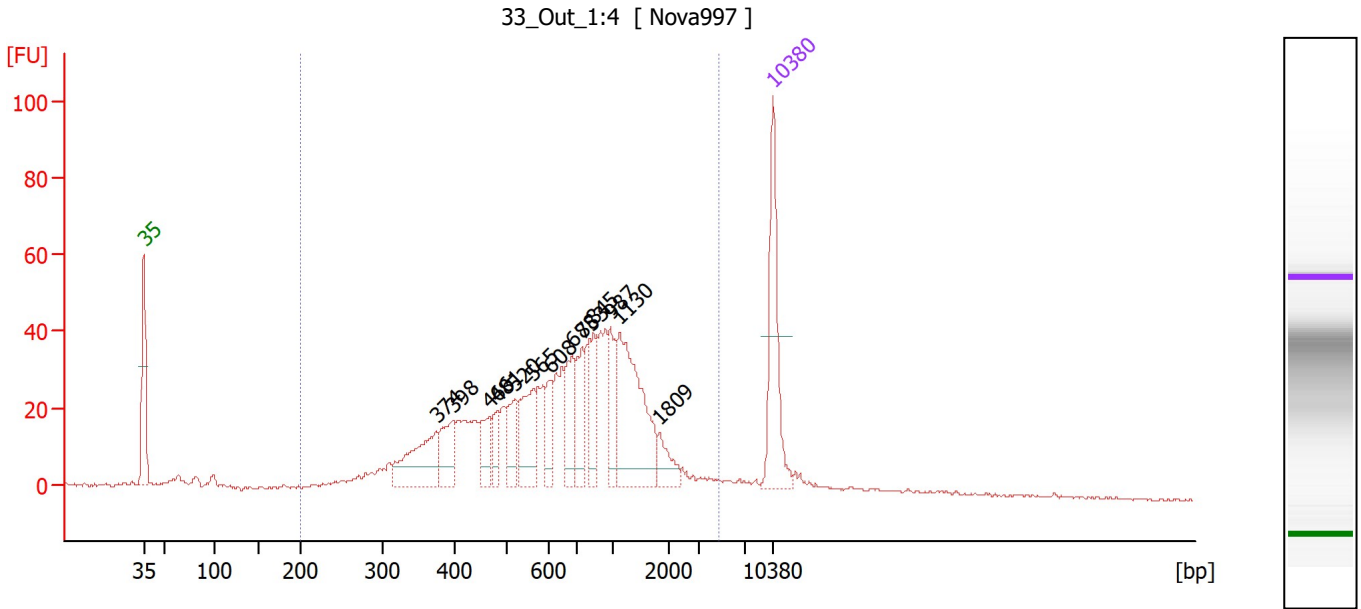
Region table for sample 9 : AS108

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
534	1,000	618.0	60	647	11.5	499.07	1,181.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 33 Out 1:4

Number of peaks found: 13 Corr. Area 1: 858.0
 Noise: 0.4

Peak table for sample 10 : 33 Out 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	374	74.55	301.8	
3	398	41.56	158.4	
4	466	31.02	100.9	
5	481	21.38	67.3	
6	520	35.01	102.0	
7	565	54.68	146.6	
8	608	24.22	60.4	
9	688	45.09	99.3	
10	753	37.18	74.9	
11	845	31.97	57.3	
12	987	34.69	53.3	
13	1,130	123.44	165.4	
14	1,809	19.62	16.4	
15	10,380	75.00	10.9	Upper Marker

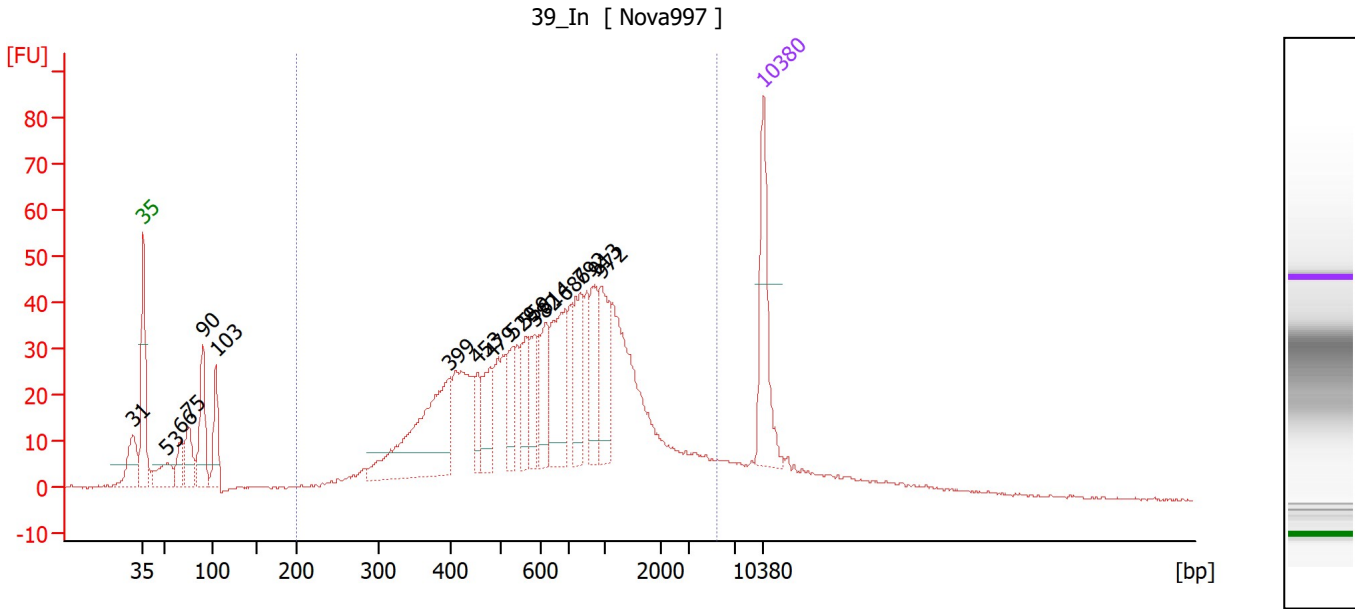
Region table for sample 10 : 33 Out 1:4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	4,787	858.0	93	848	66.7	919.10	2,392.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 39 In

Number of peaks found: 17 Corr. Area 1: 1,039.6
 Noise: 0.3

Peak table for sample 11 : 39 In

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	53	45.91	1,308.2	
4	66	33.14	758.6	
5	75	52.17	1,055.6	
6	90	87.78	1,485.6	
7	103	59.90	881.5	
8	399	184.65	700.7	
9	453	28.47	95.1	
10	479	46.32	146.6	
11	529	40.18	115.0	
12	559	43.60	118.1	
13	582	33.19	86.5	
14	614	57.77	142.7	
15	686	91.25	201.7	
16	792	60.56	115.8	
17	913	50.19	83.3	
18	972	57.77	90.1	
19	10,380	75.00	10.9	Upper Marker

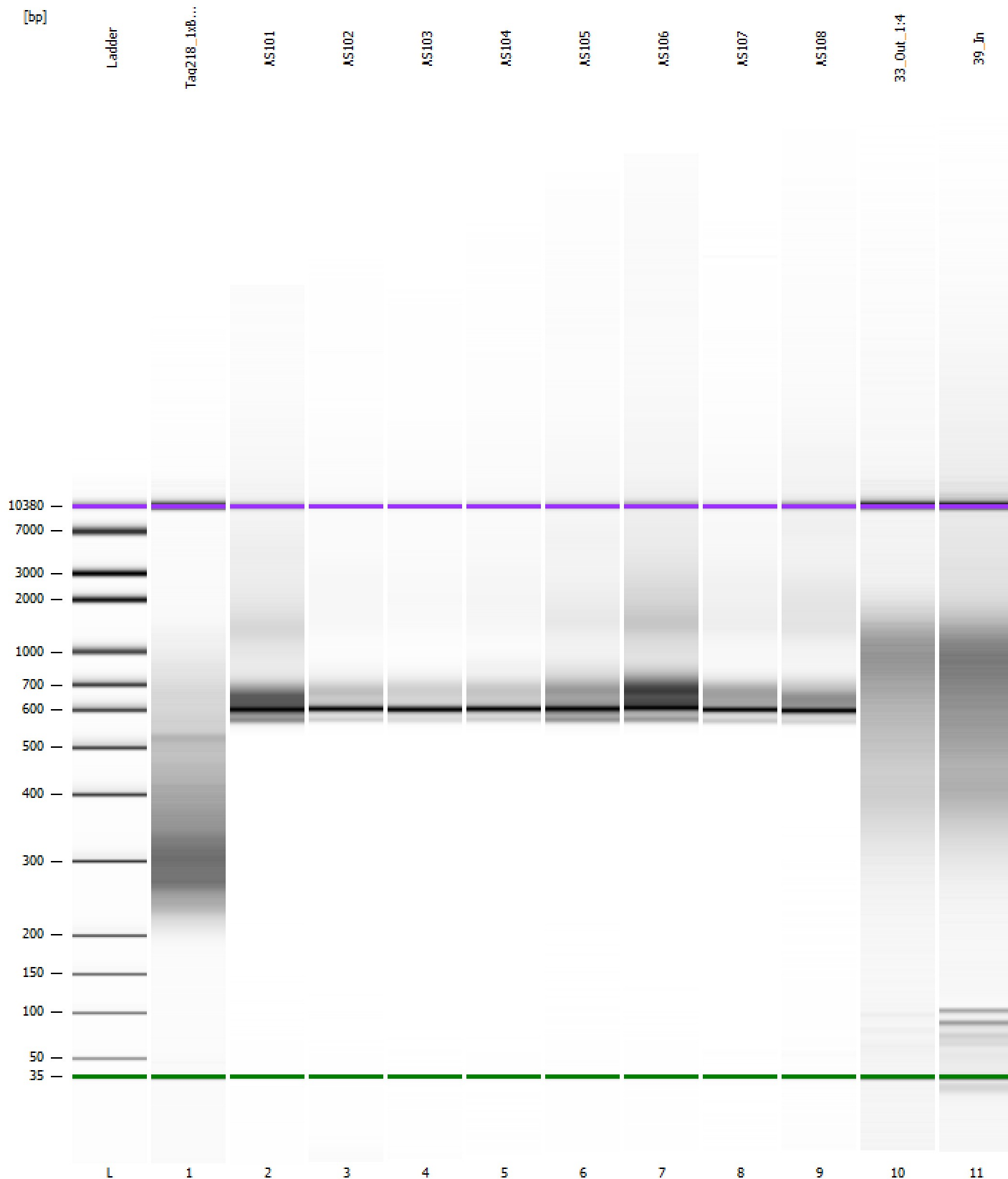
Region table for sample 11 : 39 In

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	5,380	1,039.6	80	881	82.8	1,419.19	3,792.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
Modified: 11/13/2023 4:11:37 PM

Gel Image

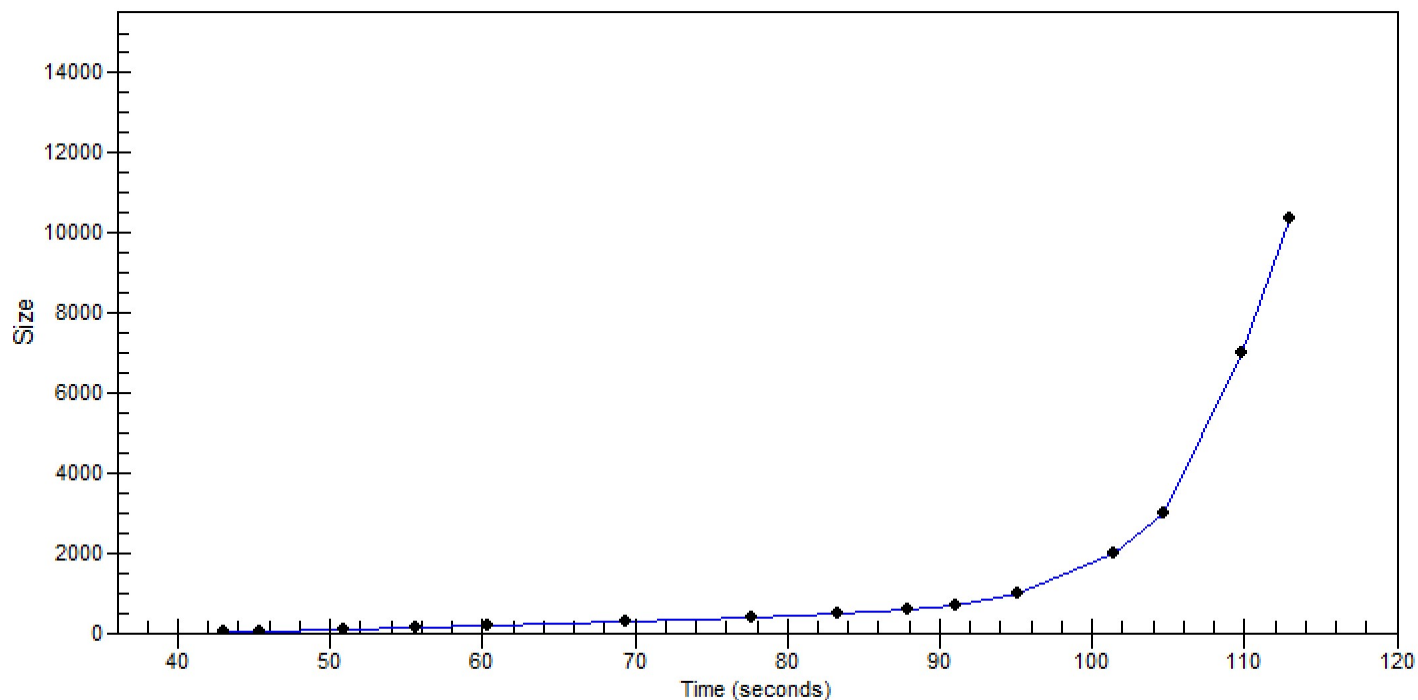


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
Modified: 11/13/2023 4:11:37 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad

Created: 11/13/2023 3:24:09 PM
 Modified: 11/13/2023 4:11:37 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		11/13/2023 4:05:30 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-11-13\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-11-13_002.xad)		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/13/2023 3:24:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB