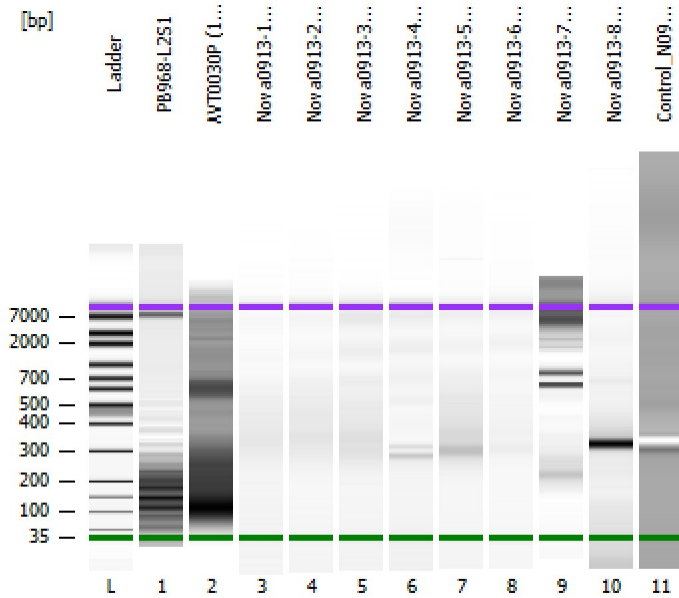


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
Modified: 8/8/2023 2:00:10 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

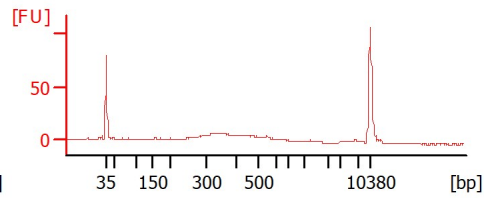
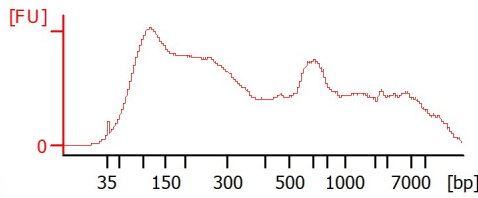
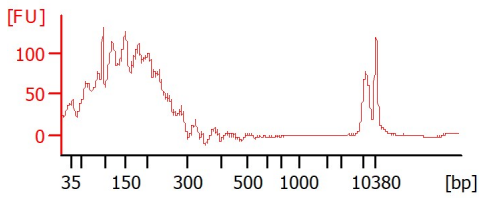
Chip Information:

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

PB968-L2S1

AVT0030P (1:10)

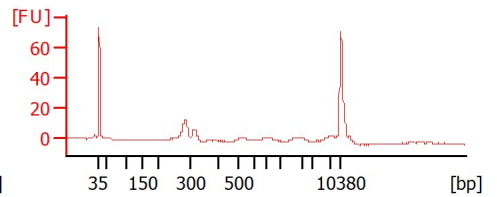
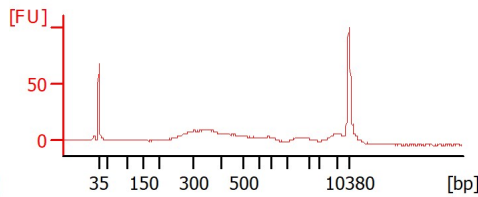
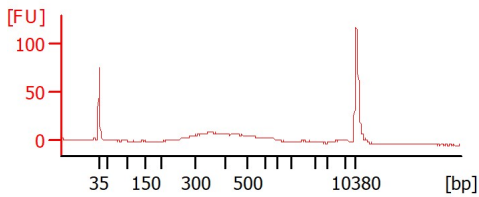
Nova0913-1_Lib



Nova0913-2_Lib

Nova0913-3_Lib

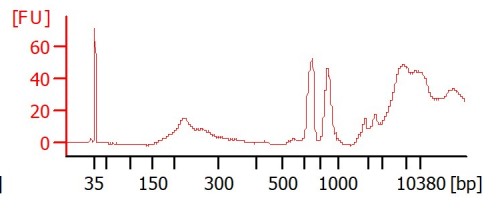
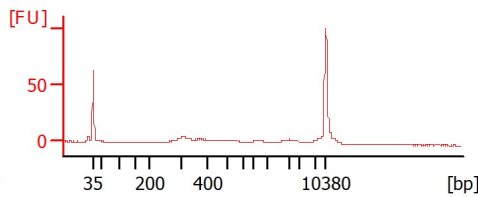
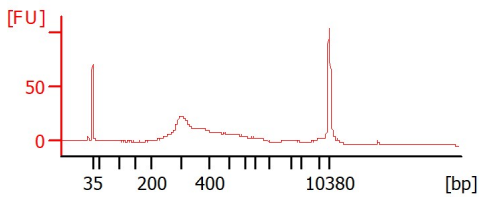
Nova0913-4_Lib



Nova0913-5_Lib

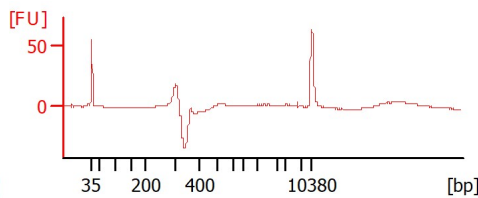
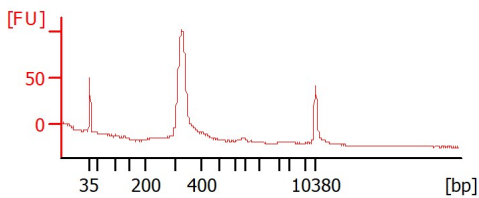
Nova0913-6_Lib

Nova0913-7_Lib



Nova0913-8_Lib

Control_N0934_TH2



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
PB968-L2S1		<input type="checkbox"/>		✓		
AVT0030P (1:10)		<input type="checkbox"/>		✓		
Nova0913-1_Lib		<input type="checkbox"/>		✓		
Nova0913-2_Lib		<input type="checkbox"/>		✓		
Nova0913-3_Lib		<input type="checkbox"/>		✓		
Nova0913-4_Lib		<input type="checkbox"/>		✓		
Nova0913-5_Lib		<input type="checkbox"/>		✓		
Nova0913-6_Lib		<input type="checkbox"/>		✓		
Nova0913-7_Lib		<input type="checkbox"/>		✓		
Nova0913-8_Lib		<input type="checkbox"/>		✓		
Control_N0934_TH2		<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_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 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

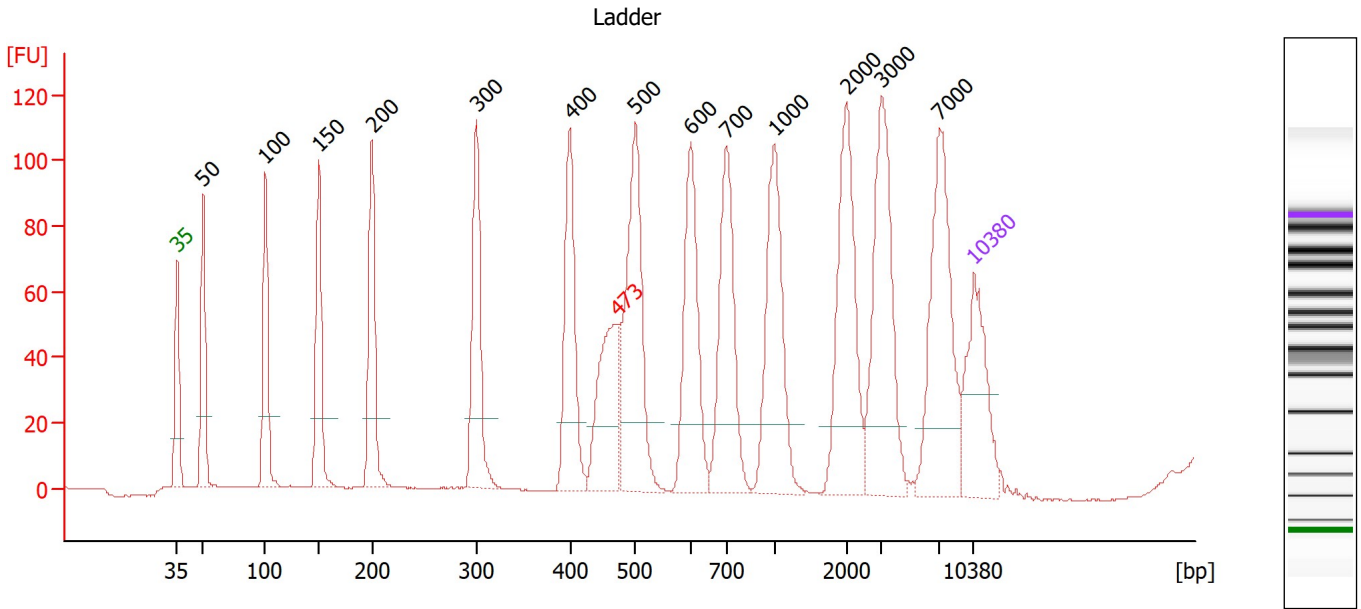
Ladder

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_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

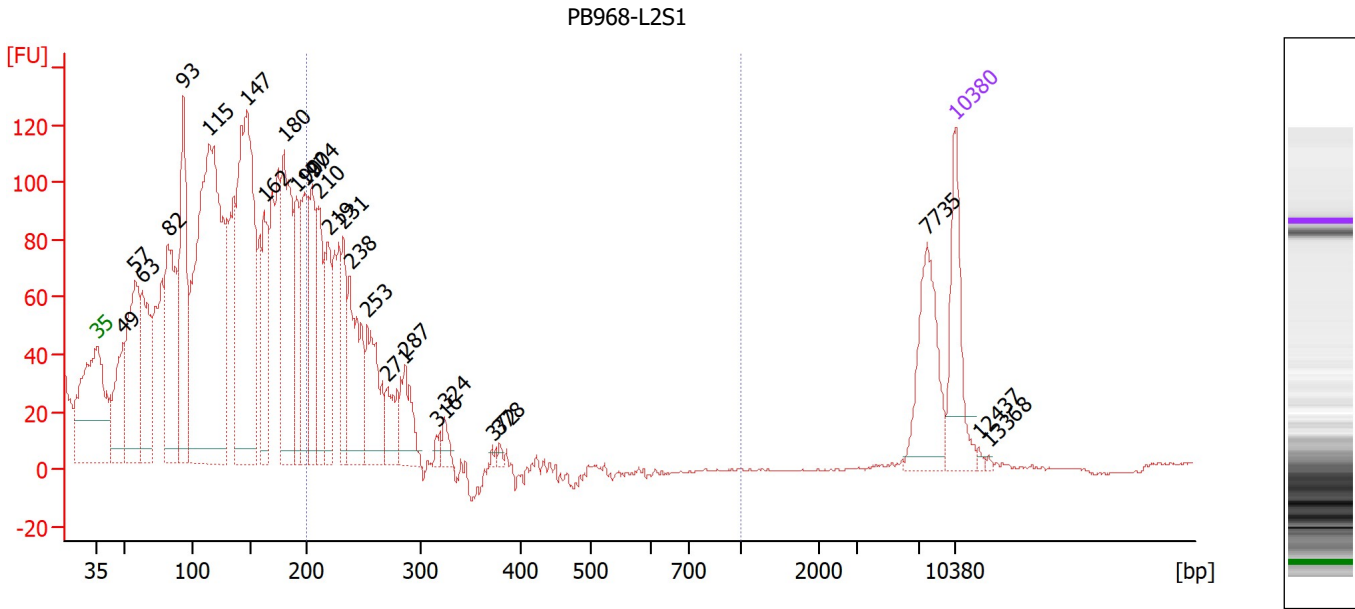
Peak table for Ladder

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	473	0.00	0.0	excluded peak
9	500	150.00	454.5	Ladder Peak
10	600	150.00	378.8	Ladder Peak
11	700	150.00	324.7	Ladder Peak
12	1,000	150.00	227.3	Ladder Peak
13	2,000	150.00	113.6	Ladder Peak
14	3,000	150.00	75.8	Ladder Peak
15	7,000	150.00	32.5	Ladder Peak
16	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : PB968-L2S1

Baseline Plateau [s] : 1

Overall Results for sample 1 : PB968-L2S1

Number of peaks found: 26 Corr. Area 1: 644.4
 Noise: 0.4

Peak table for sample 1 : PB968-L2S1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	147.39	4,565.9	
3	57	276.81	7,332.6	
4	63	189.86	4,584.6	
5	82	281.84	5,222.4	
6	93	283.04	4,598.3	
7	115	891.21	11,758.5	
8	147	552.33	5,681.5	
9	162	136.40	1,274.7	
10	180	259.37	2,186.3	
11	190	125.55	1,001.4	
12	197	153.55	1,181.5	
13	204	122.05	904.6	
14	210	114.86	828.3	
15	219	107.34	744.0	
16	231	86.42	565.9	
17	238	152.43	972.3	
18	253	120.50	721.2	
19	271	47.02	262.8	
20	287	73.01	385.8	
21	316	9.10	43.6	
22	324	17.60	82.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : PB968-L2S1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
23	372	3.34	13.6	
24	378	4.62	18.5	
25	7,735	97.52	19.1	
26	10,380	75.00	10.9	Upper Marker
27	12,437	0.00	0.0	
28	13,368	0.00	0.0	

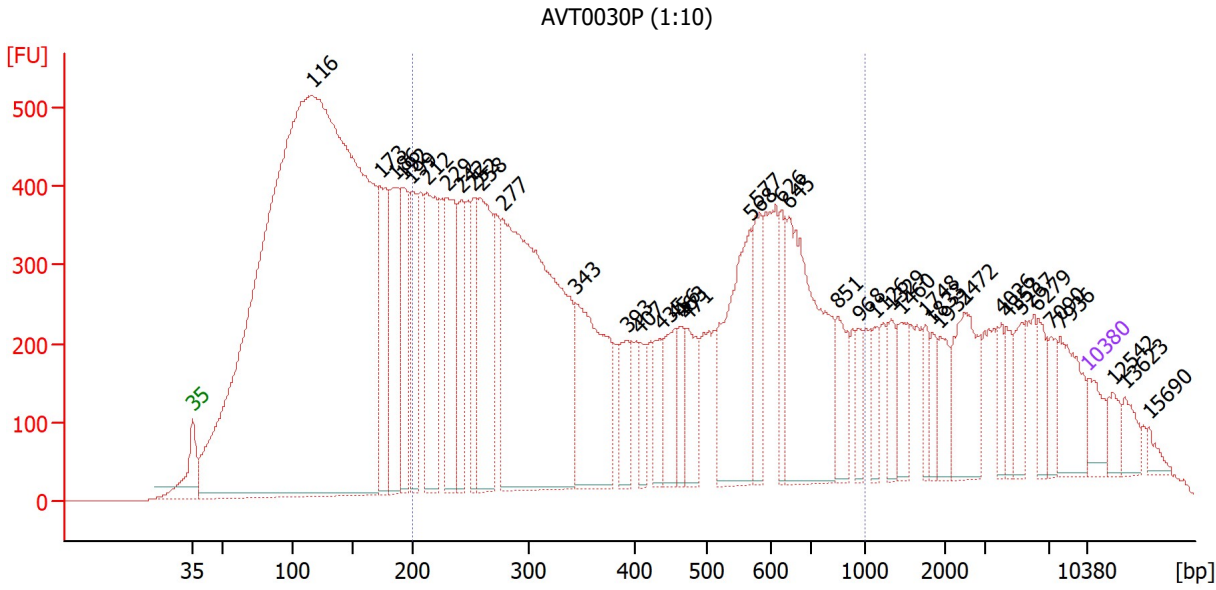
Region table for sample 1 : PB968-L2S1

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	644.4	20	231	10.2	697.39	4,584.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AVT0030P (1:10)

Number of peaks found: 40 Corr. Area 1: 14,185.4
 Noise: 0.4

Peak table for sample 2 : AVT0030P (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	116	9,881.50	128,830.4	
3	173	551.29	4,823.7	
4	186	577.78	4,705.0	
5	192	383.46	3,021.4	
6	199	370.27	2,813.4	
7	212	681.74	4,869.8	
8	229	508.29	3,364.4	
9	242	339.00	2,121.8	
10	252	291.25	1,750.7	
11	258	621.57	3,657.2	
12	277	2,142.10	11,715.6	
13	343	677.76	2,990.2	
14	393	161.42	622.7	
15	407	106.16	395.1	
16	435	126.86	442.1	
17	456	202.69	673.5	
18	463	96.99	317.2	
19	471	191.48	616.6	
20	568	560.96	1,495.5	
21	577	214.51	563.5	
22	626	136.81	331.1	
23	645	744.19	1,749.1	
24	851	152.07	270.8	
25	968	66.53	104.1	
26	1,126	63.96	86.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : AVT0030P (1:10)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,329	92.59	105.5	
28	1,460	108.64	112.7	
29	1,748	59.92	51.9	
30	1,833	56.74	46.9	
31	1,931	95.94	75.3	
32	2,472	236.34	144.9	
33	4,026	55.66	20.9	
34	4,353	61.98	21.6	
35	5,267	90.83	26.1	
36	6,279	78.04	18.8	
37	7,090	64.45	13.8	
38	7,936	164.48	31.4	
39	10,380	75.00	10.9	Upper Marker
40	12,542	0.00	0.0	
41	13,623	0.00	0.0	
42	15,690	0.00	0.0	

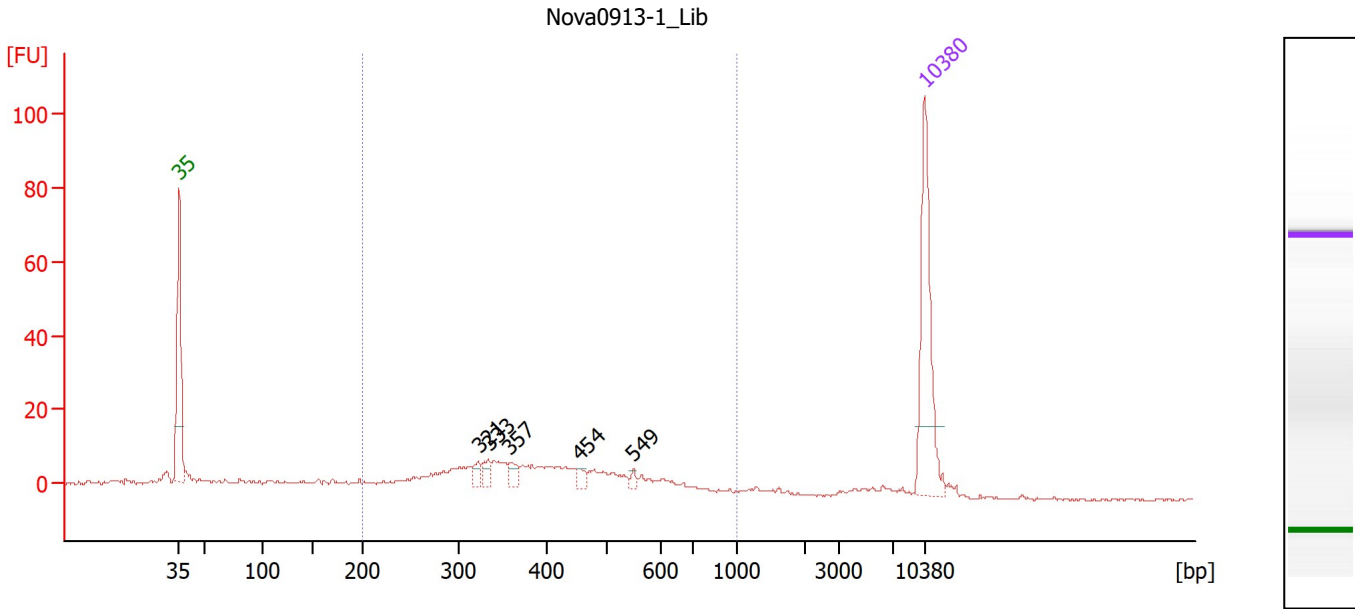
Region table for sample 2 : AVT0030P (1:10)

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	14,185.4	46	431	44.8	10,068.99	46,076.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Nova0913-1 Lib

Number of peaks found: 5 Corr. Area 1: 192.2
 Noise: 0.3

Peak table for sample 3 : Nova0913-1 Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	321	8.56	40.3	
3	333	9.88	44.9	
4	357	9.10	38.6	
5	454	5.62	18.8	
6	549	3.48	9.6	
7	10,380	75.00	10.9	Upper Marker

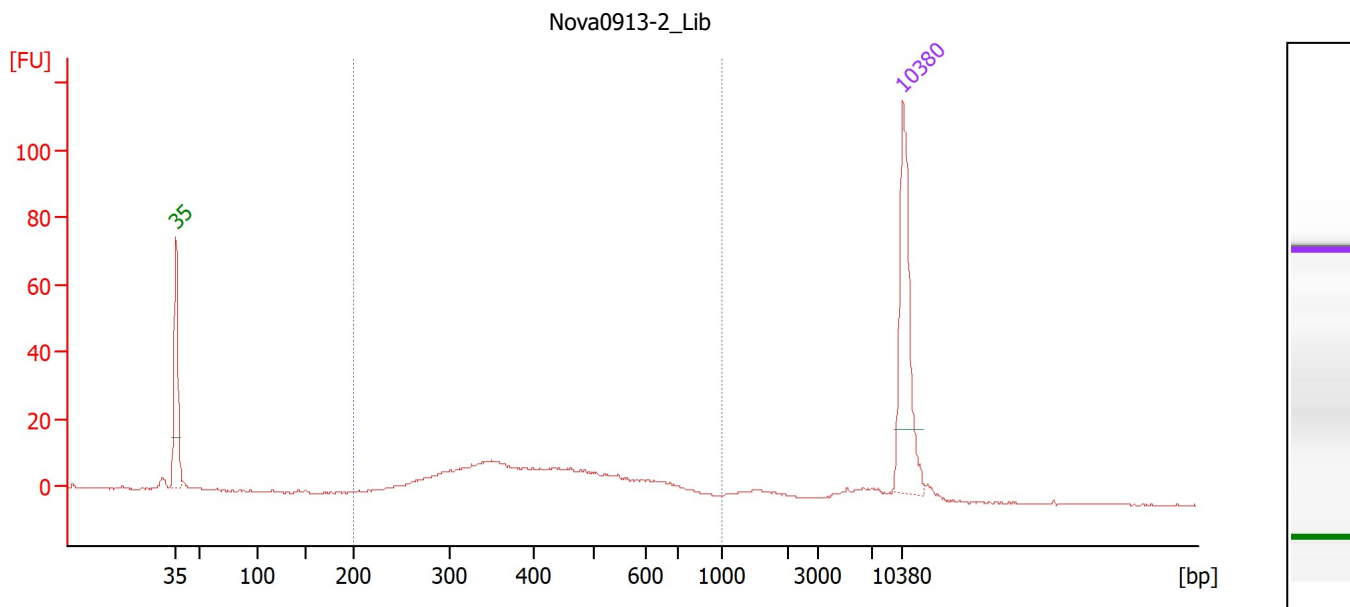
Region table for sample 3 : Nova0913-1 Lib

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	192.2	70	407	30.5	217.45	912.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Nova0913-2 Lib

Number of peaks found: 0 Corr. Area 1: 246.4
 Noise: 0.2

Peak table for sample 4 : Nova0913-2 Lib

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

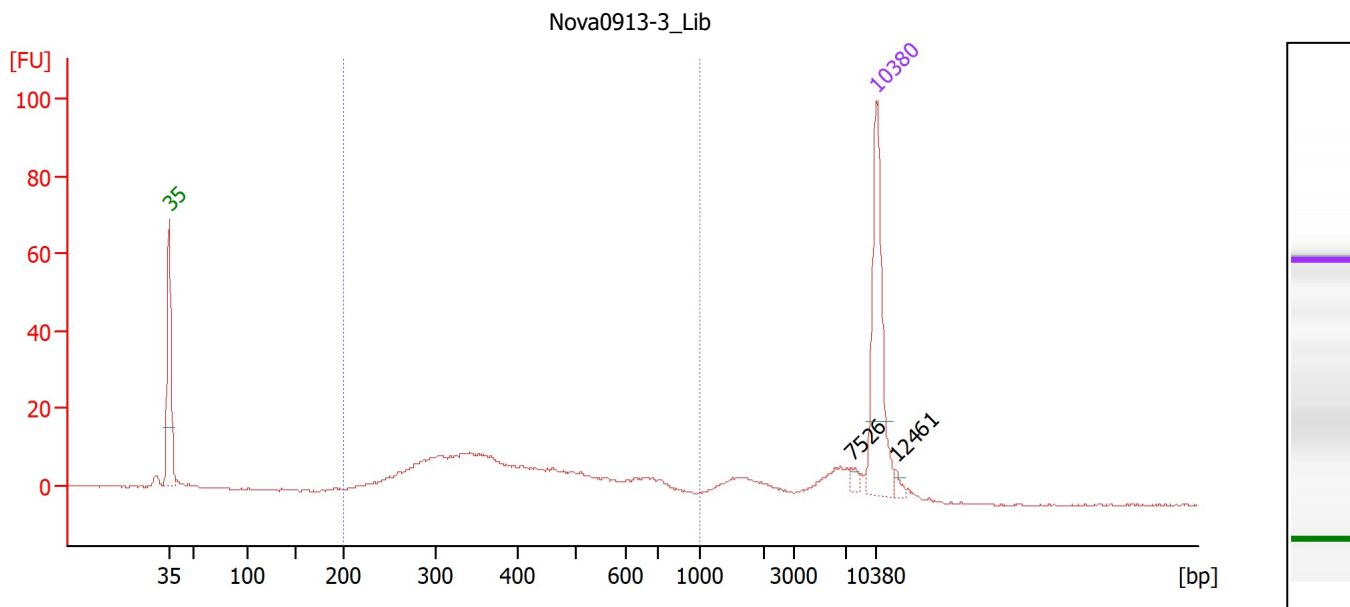
Region table for sample 4 : Nova0913-2 Lib

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	246.4	82	432	31.4	234.29	931.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Nova0913-3 Lib

Number of peaks found: 2 Corr. Area 1: 246.0
 Noise: 0.2

Peak table for sample 5 : Nova0913-3 Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	7,526	3.99	0.8	
3	10,380	75.00	10.9	Upper Marker
4	12,461	0.00	0.0	

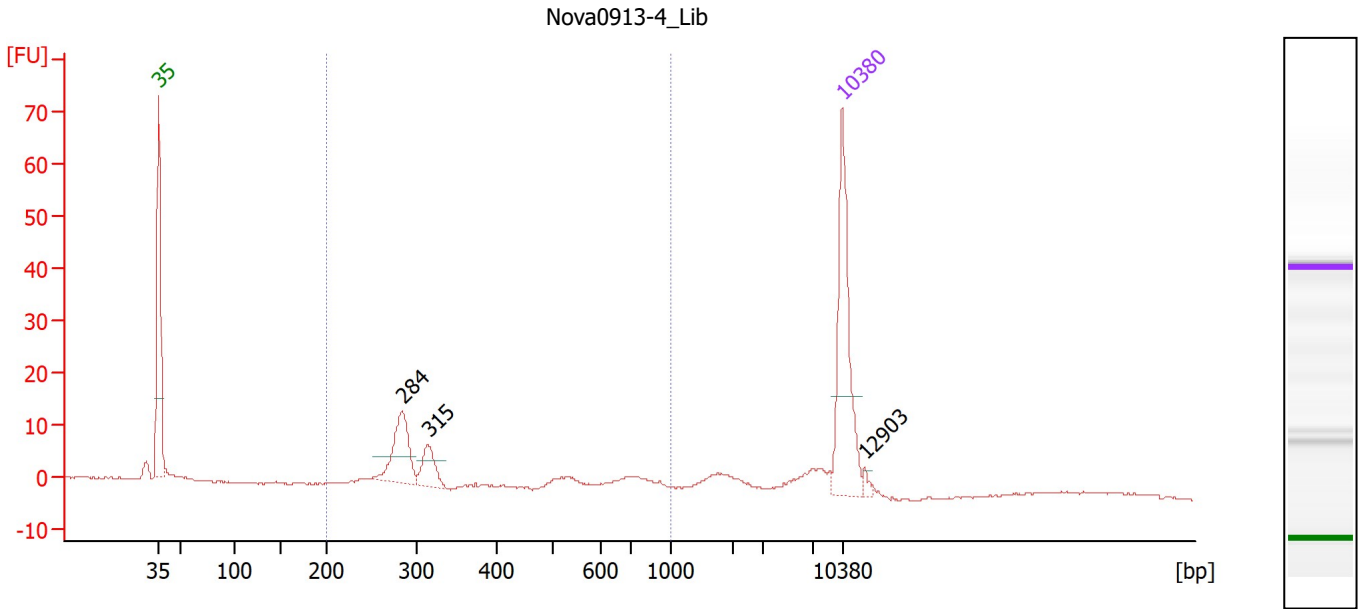
Region table for sample 5 : Nova0913-3 Lib

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	246.0	74	416	33.7	266.89	1,113.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Nova0913-4 Lib

Number of peaks found: 3 Corr. Area 1: 77.2
 Noise: 0.2

Peak table for sample 6 : Nova0913-4 Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	284	56.02	298.5	
3	315	24.19	116.3	
4	10,380	75.00	10.9	Upper Marker
5	12,903	0.00	0.0	

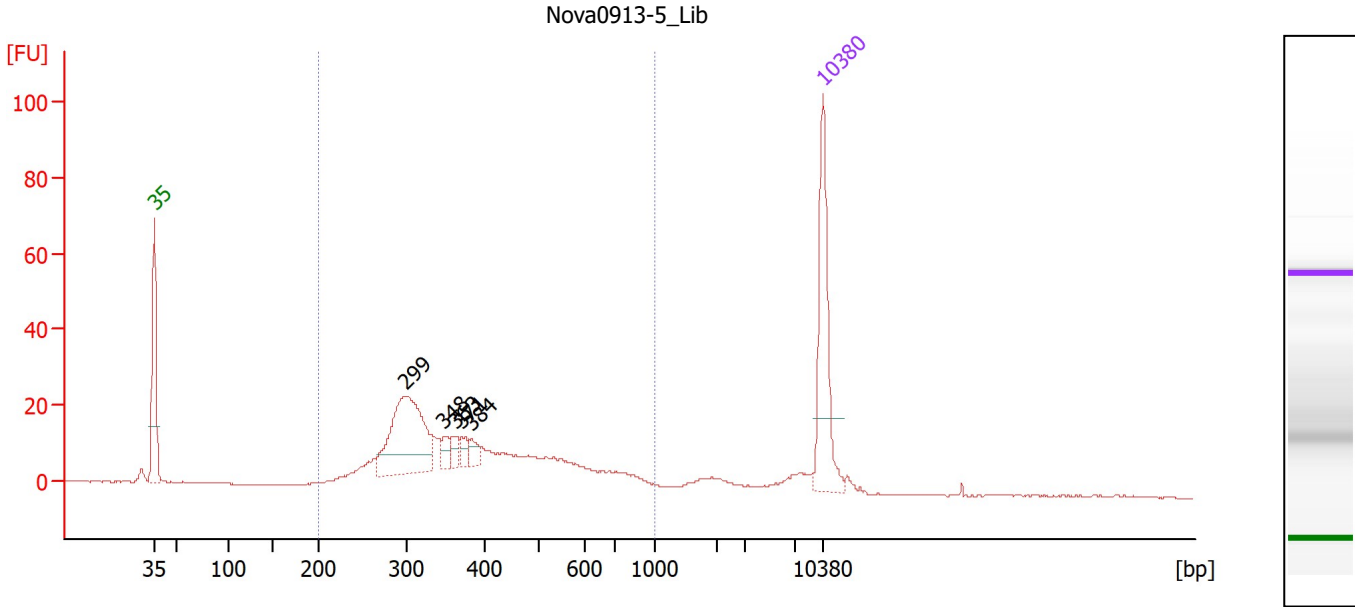
Region table for sample 6 : Nova0913-4 Lib

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	77.2	59	403	46.8	110.15	511.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Nova0913-5 Lib

Number of peaks found: 5 Corr. Area 1: 394.5
 Noise: 0.2

Peak table for sample 7 : Nova0913-5 Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	299	140.39	710.6	
3	348	11.09	48.3	
4	363	12.06	50.4	
5	371	10.36	42.3	
6	384	9.42	37.2	
7	10,380	75.00	10.9	Upper Marker

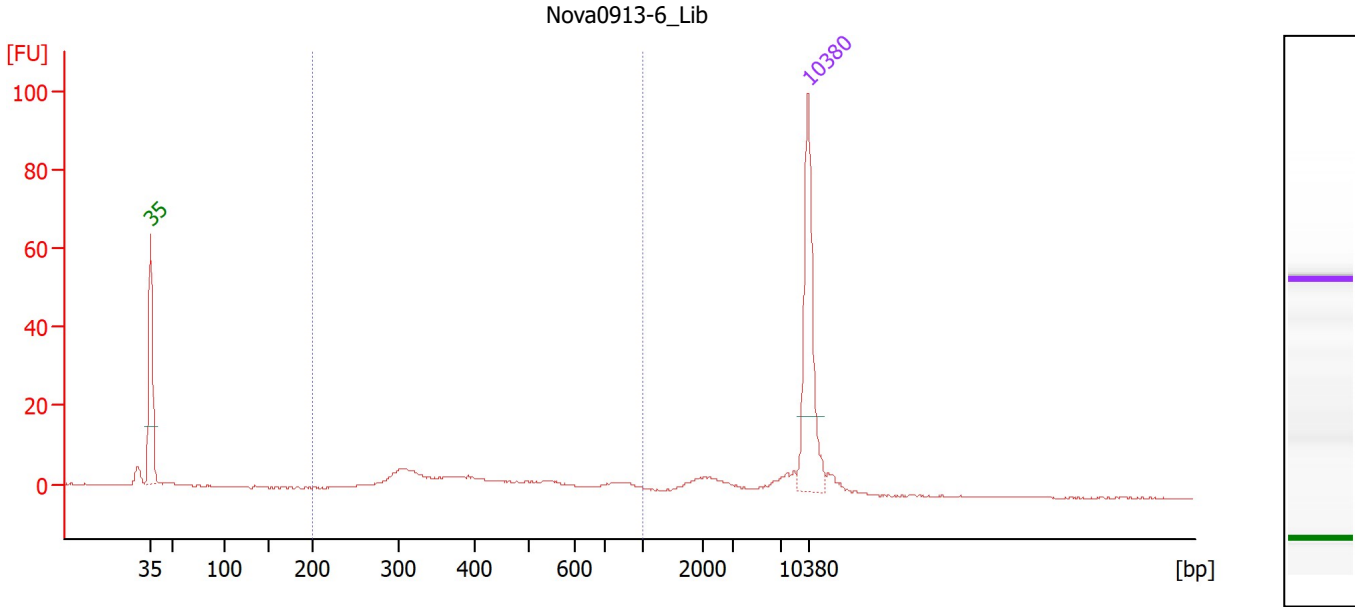
Region table for sample 7 : Nova0913-5 Lib

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	394.5	87	407	34.8	450.83	1,914.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Nova0913-6 Lib

Number of peaks found: 0 Corr. Area 1: 89.2
 Noise: 0.2

Peak table for sample 8 : Nova0913-6 Lib

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

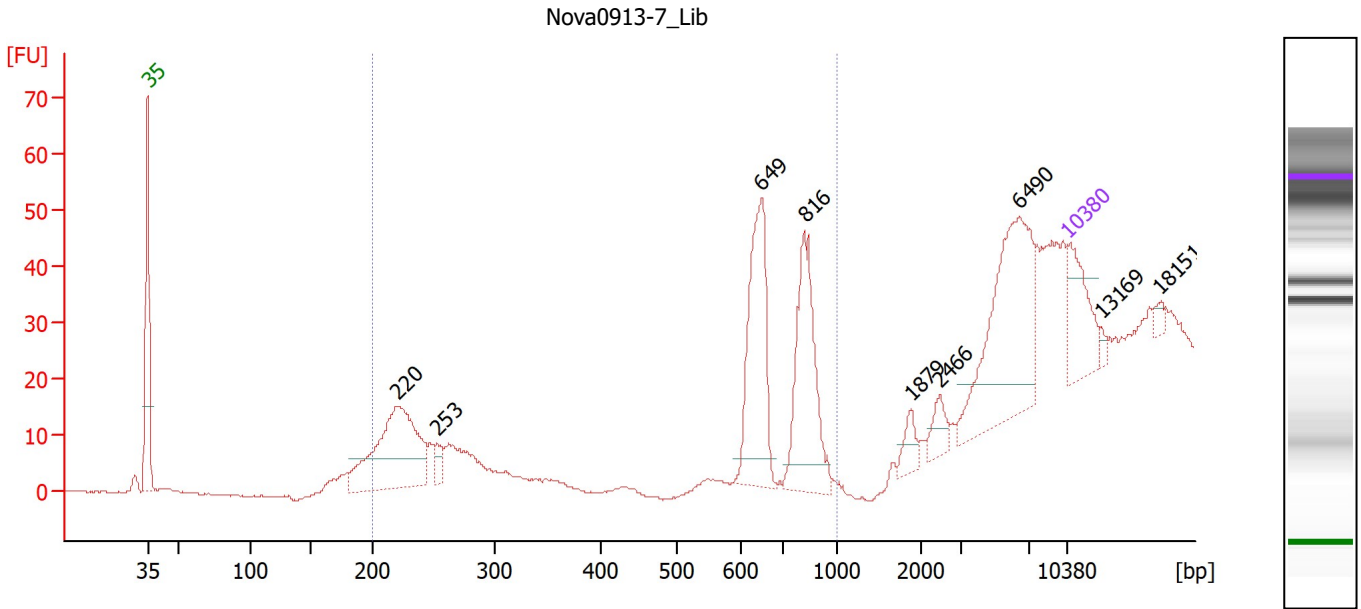
Region table for sample 8 : Nova0913-6 Lib

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	89.2	63	454	37.5	100.44	391.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Nova0913-7 Lib

Number of peaks found: 9 Corr. Area 1: 120.4
 Noise: 0.2

Peak table for sample 9 : Nova0913-7 Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	220	340.60	2,351.1	
3	253	25.24	151.4	
4	649	240.02	559.9	
5	816	221.44	411.0	
6	1,879	24.40	19.7	
7	2,466	27.18	16.7	
8	6,490	258.97	60.5	
9	10,380	75.00	10.9	Upper Marker
10	13,169	0.00	0.0	
11	18,151	0.00	0.0	

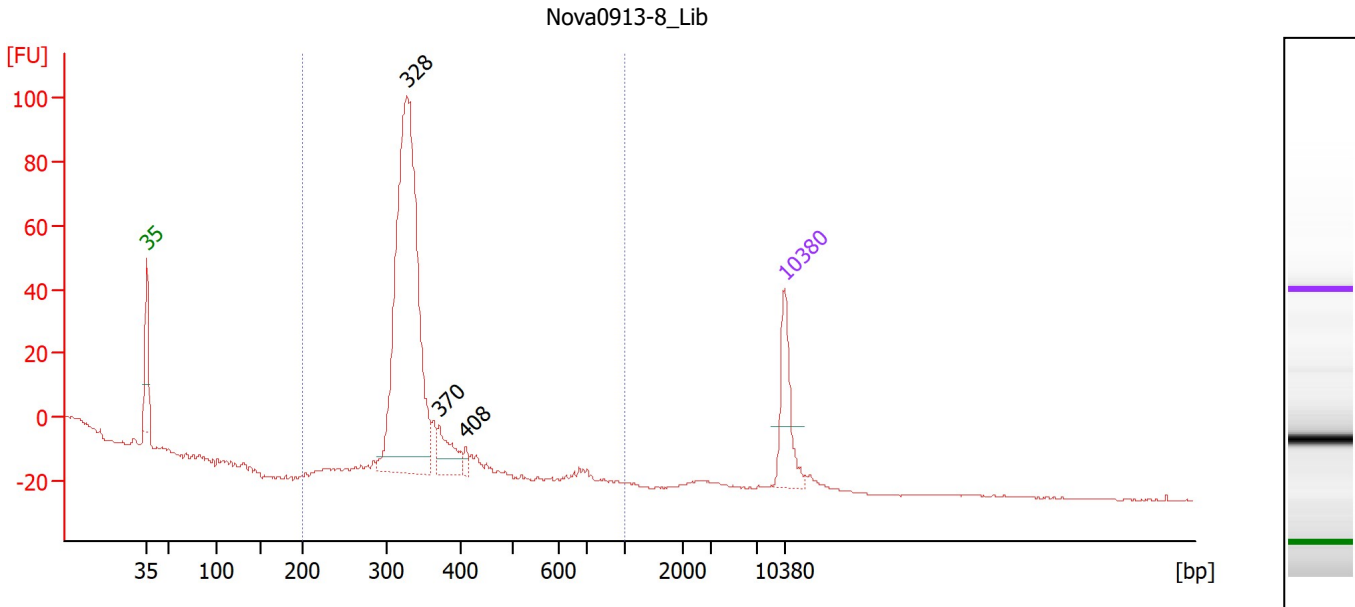
Region table for sample 9 : Nova0913-7 Lib

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	120.4	45	631	32.1	311.06	1,104.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Nova0913-8 Lib

Number of peaks found: 3 Corr. Area 1: 380.4
 Noise: 0.2

Peak table for sample 10 : Nova0913-8 Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	328	774.78	3,583.2	
3	370	58.95	241.1	
4	408	11.42	42.4	
5	10,380	75.00	10.9	Upper Marker

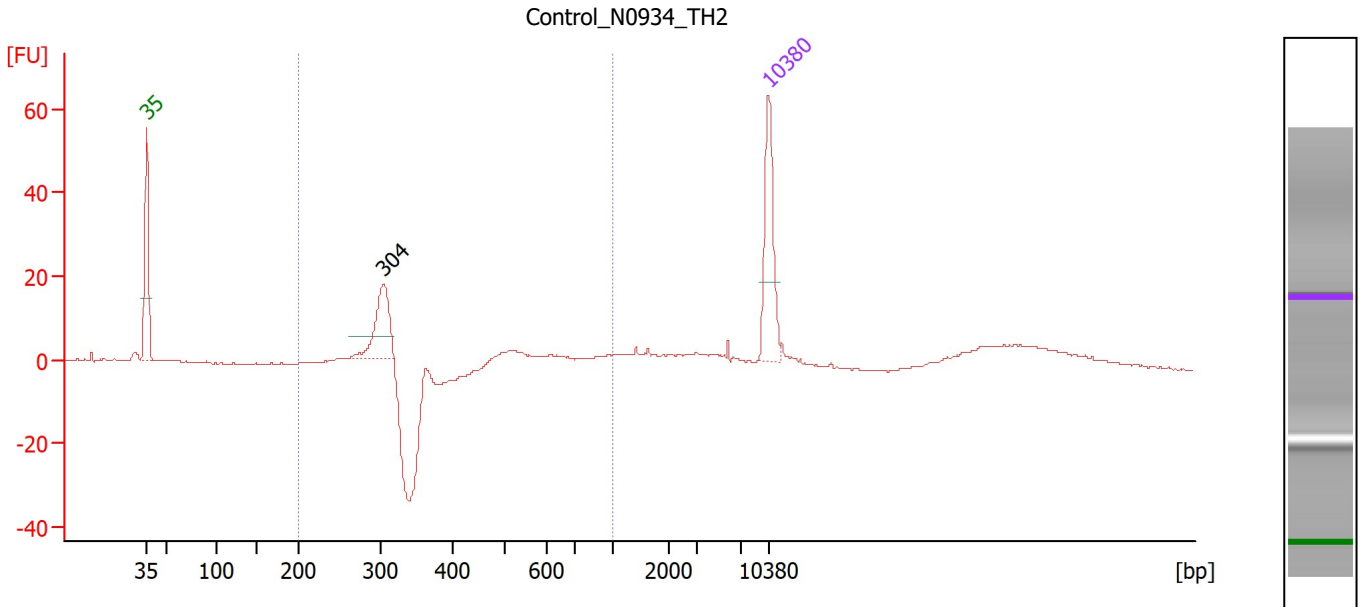
Region table for sample 10 : Nova0913-8 Lib

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	380.4	100	329	4.1	667.69	3,078.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
 Modified: 8/8/2023 2:00:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Control N0934 TH2

Number of peaks found: 1 Corr. Area 1: 83.7
 Noise: 0.2

Peak table for sample 11 : Control N0934 TH2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	304	81.79	407.7	
3	10,380	75.00	10.9	Upper Marker

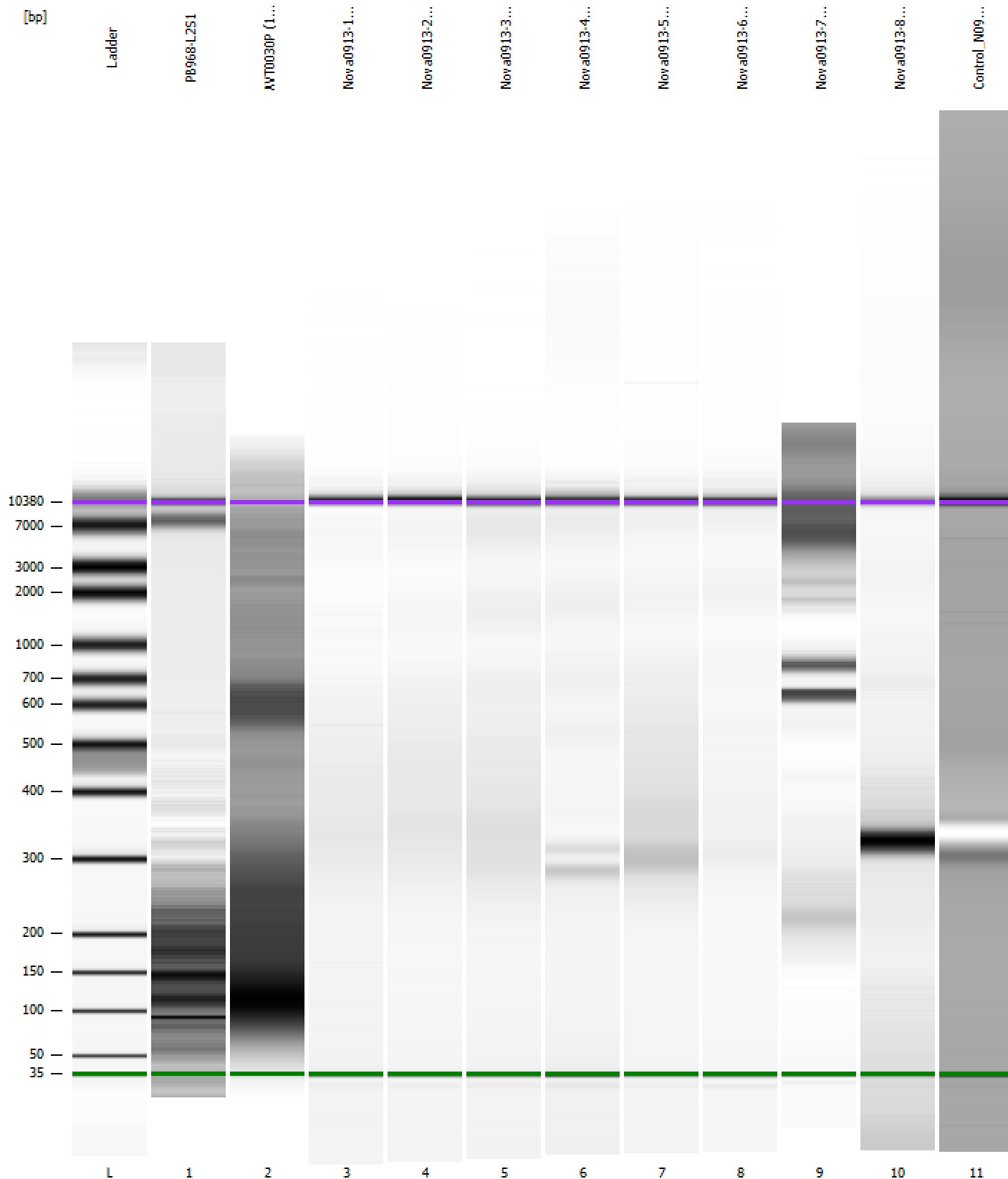
Region table for sample 11 : Control N0934 TH2

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	83.7	44	440	44.2	150.41	644.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
Modified: 8/8/2023 2:00:10 PM

Gel Image

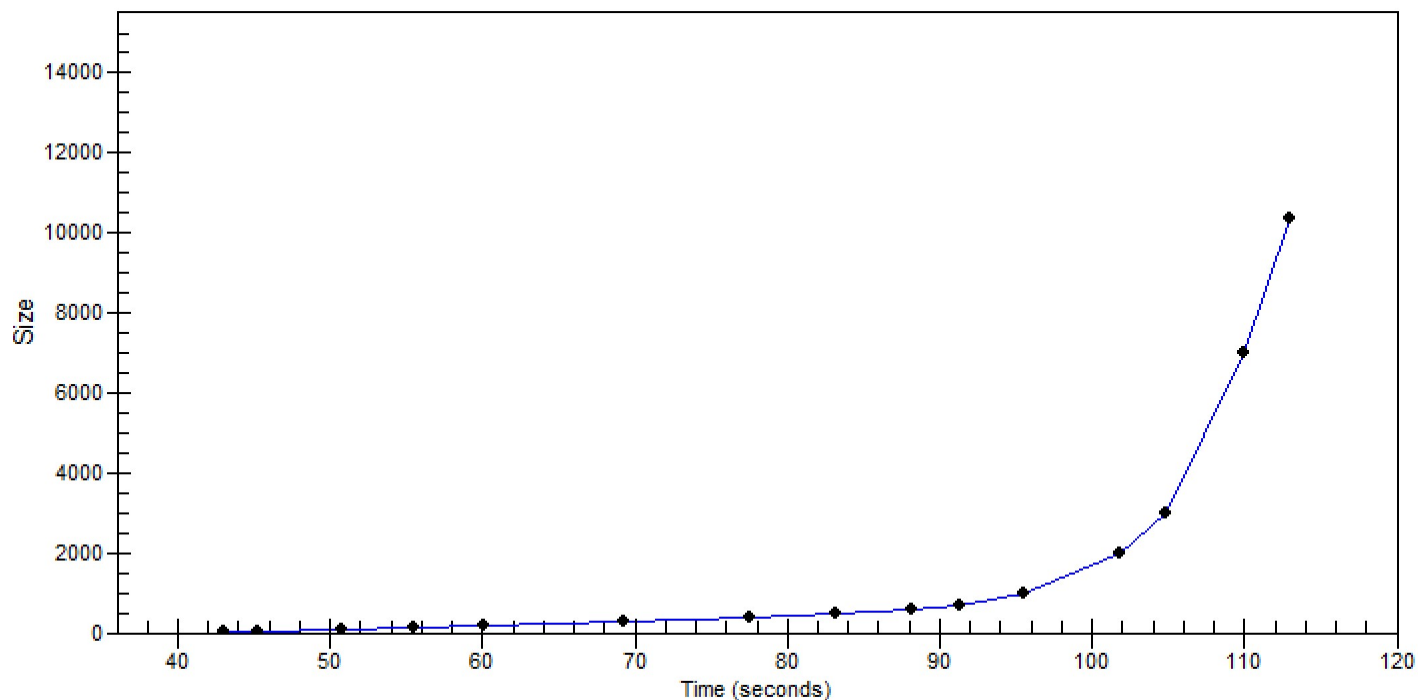


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad

Created: 8/8/2023 12:14:02 PM
Modified: 8/8/2023 2:00:10 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay Created: 8/8/2023 12:14:02 PM
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad Modified: 8/8/2023 2:00:10 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		8/8/2023 12:55:21 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\2023-08-08\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-08-08_001.xad)		Instrument	Run		8/8/2023 12:14:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/8/2023 12:14:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/8/2023 12:14:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/8/2023 12:14:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/8/2023 12:14:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/8/2023 12:14:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/8/2023 12:14:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB