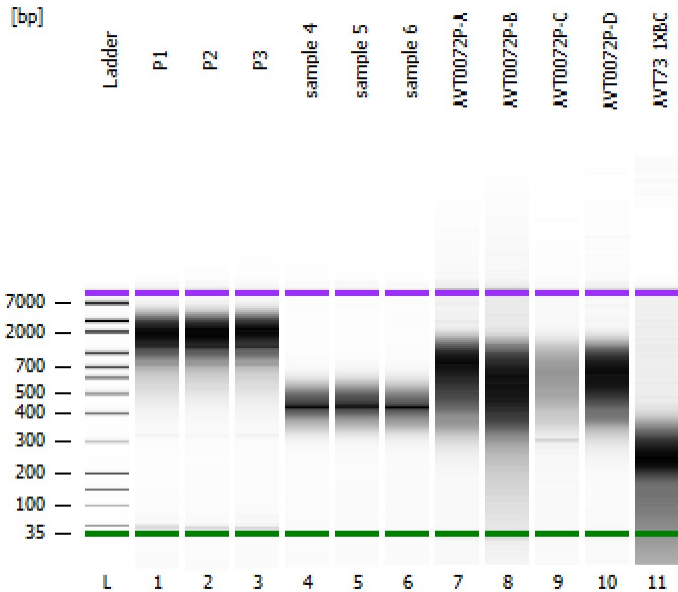


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
Modified: 10/26/2023 1:49:26 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

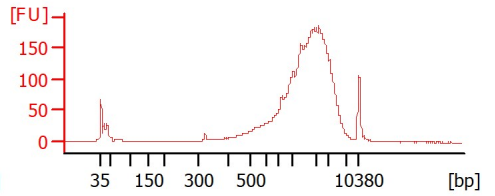
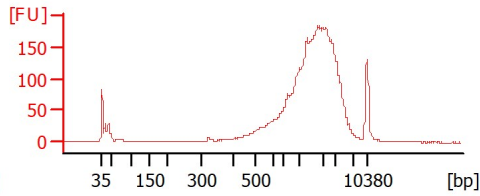
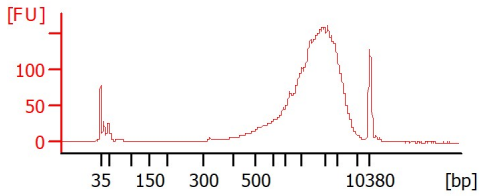
Chip Information:

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

P1

P2

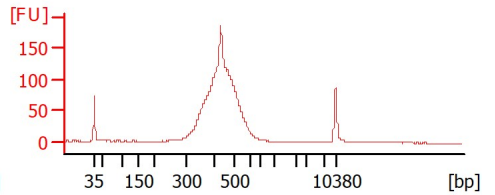
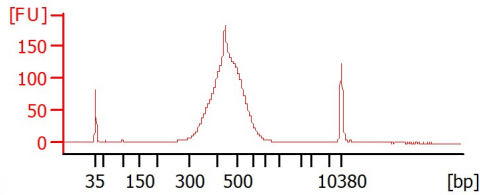
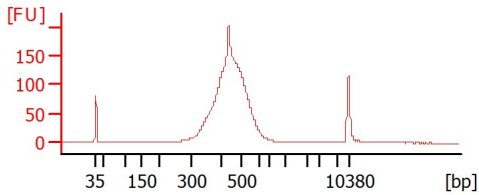
P3



sample 4

sample 5

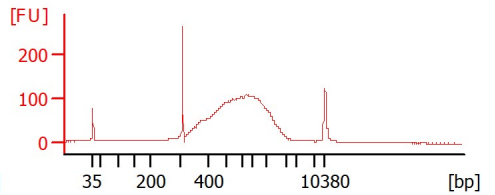
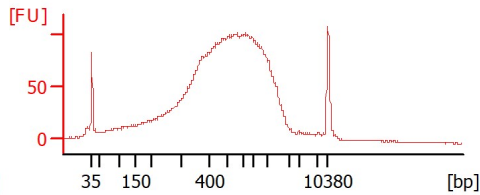
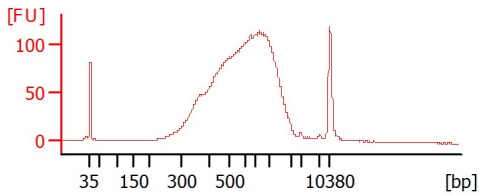
sample 6



AVT0072P-A

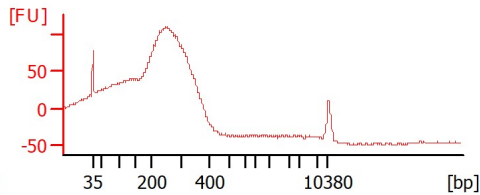
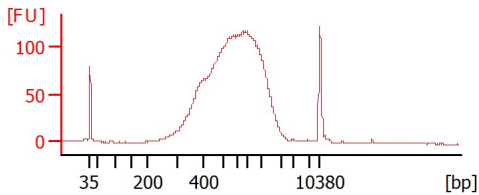
AVT0072P-B

AVT0072P-C



AVT0072P-D

AVT73 1XBC



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P1		<input type="checkbox"/>		✓		
P2		<input type="checkbox"/>		✓		
P3		<input type="checkbox"/>		✓		
sample 4		<input type="checkbox"/>		✓		
sample 5		<input type="checkbox"/>		✓		
sample 6		<input type="checkbox"/>		✓		
AVT0072P-A		<input type="checkbox"/>		✓		
AVT0072P-B		<input type="checkbox"/>		✓		
AVT0072P-C		<input type="checkbox"/>		✓		
AVT0072P-D		<input type="checkbox"/>		✓		
AVT73 1XBC		<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_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 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

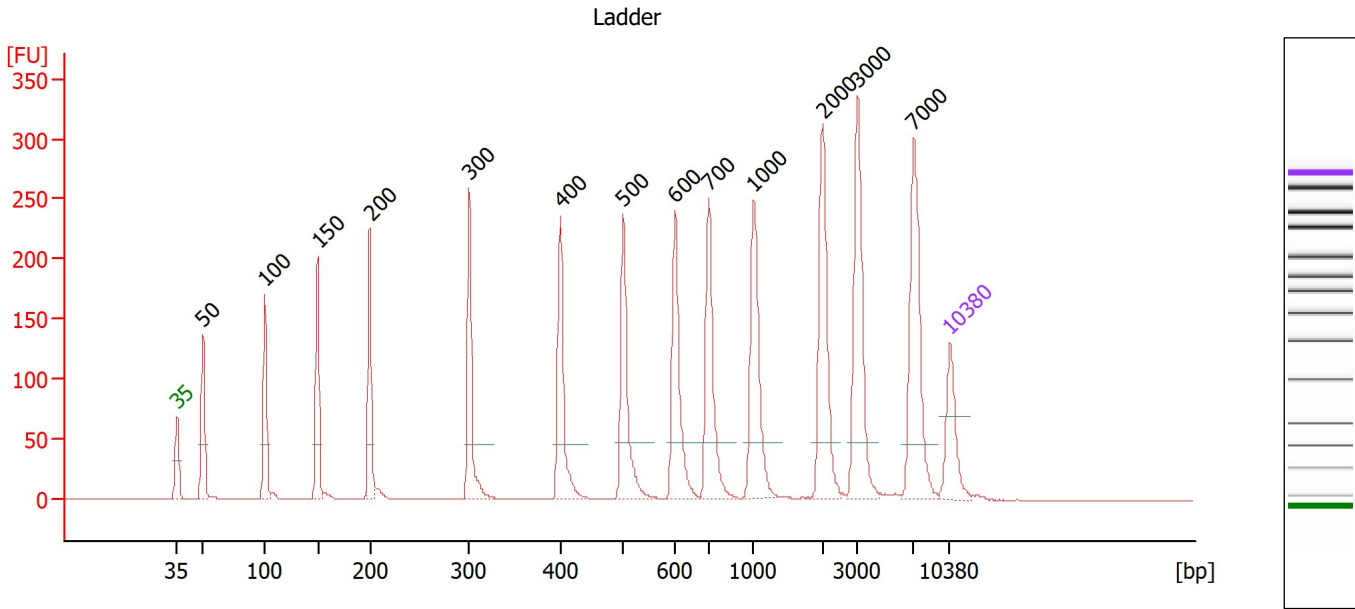
Ladder

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_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

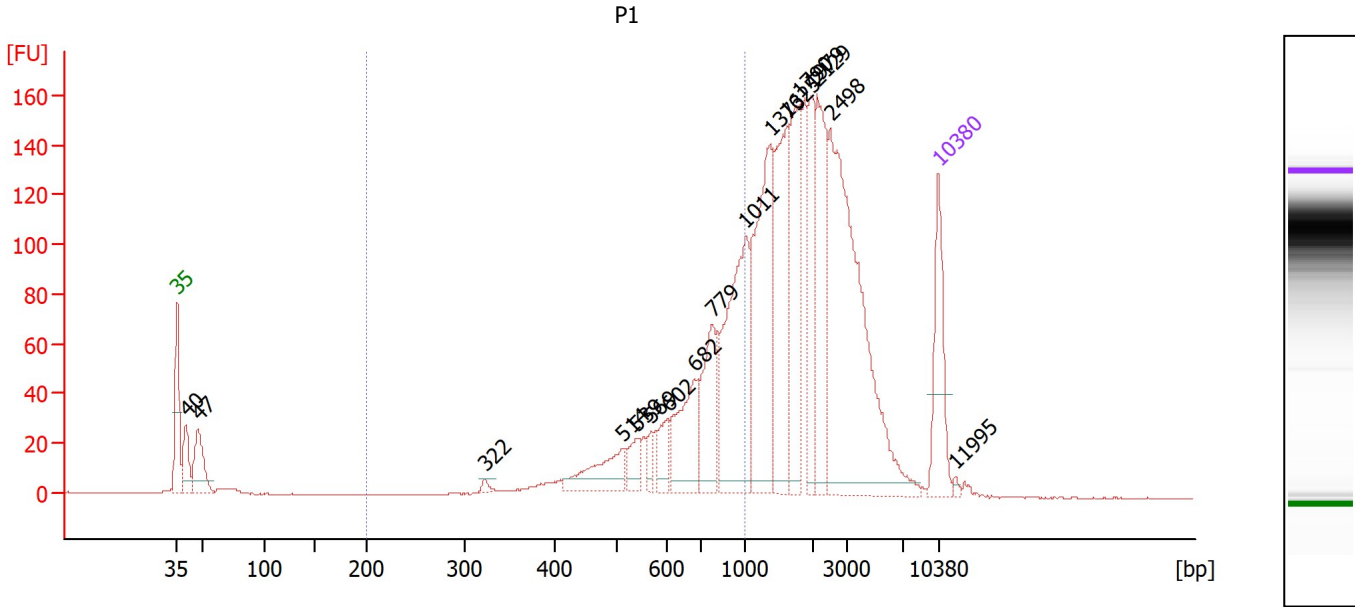
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
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_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : P1

Number of peaks found: 17 Corr. Area 1: 689.2
 Noise: 0.2

Peak table for sample 1 : P1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	57.46	2,161.3	
3	47	82.02	2,637.2	
4	322	5.34	25.1	
5	514	65.50	193.0	
6	539	27.27	76.6	
7	569	15.56	41.4	
8	602	28.15	70.9	
9	682	98.73	219.2	
10	779	92.99	180.8	
11	1,011	205.99	308.7	
12	1,373	206.83	228.2	
13	1,625	153.01	142.7	
14	1,790	127.02	107.5	
15	1,979	82.42	63.1	
16	2,129	126.58	90.1	
17	2,498	358.76	217.6	
18	10,380	75.00	10.9	Upper Marker
19	11,995	0.00	0.0	

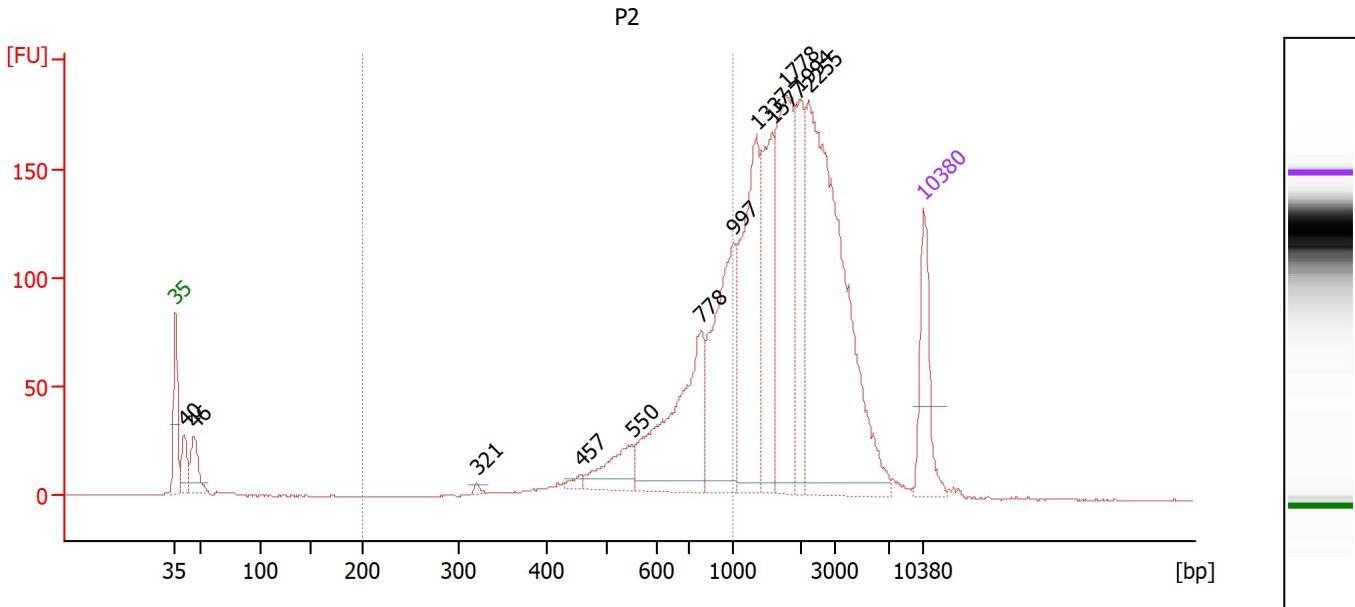
Region table for sample 1 : P1

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	689.2	29	711	25.1	608.96	1,435.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : P2

Number of peaks found: 12 Corr. Area 1: 732.4
 Noise: 0.2

Peak table for sample 2 : P2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	48.25	1,824.8	
3	46	63.30	2,081.5	
4	321	4.95	23.4	
5	457	7.82	25.9	
6	550	60.32	166.1	
7	778	223.64	435.7	
8	997	198.70	302.1	
9	1,337	210.57	238.6	
10	1,577	144.76	139.0	
11	1,778	216.71	184.7	
12	1,994	105.59	80.2	
13	2,255	454.84	305.7	
14	10,380	75.00	10.9	Upper Marker

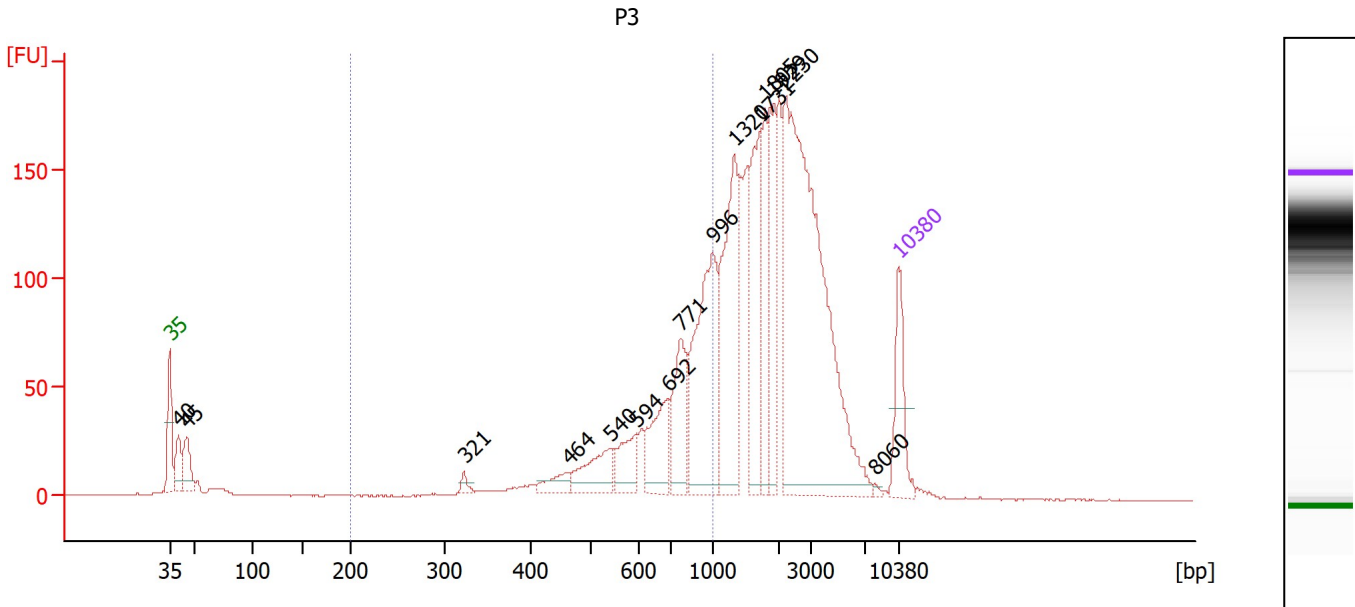
Region table for sample 2 : P2

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	732.4	27	722	24.3	569.72	1,315.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : P3

Number of peaks found: 15 Corr. Area 1: 709.0
 Noise: 0.2

Peak table for sample 3 : P3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	63.43	2,390.8	
3	45	75.13	2,507.9	
4	321	10.43	49.2	
5	464	29.07	94.9	
6	540	77.51	217.3	
7	594	63.79	162.7	
8	692	106.36	233.0	
9	771	117.62	231.0	
10	996	262.26	399.0	
11	1,320	252.43	289.7	
12	1,731	171.97	150.5	
13	1,805	99.66	83.6	
14	1,929	123.23	96.8	
15	2,230	663.93	451.1	
16	8,060	3.10	0.6	
17	10,380	75.00	10.9	Upper Marker

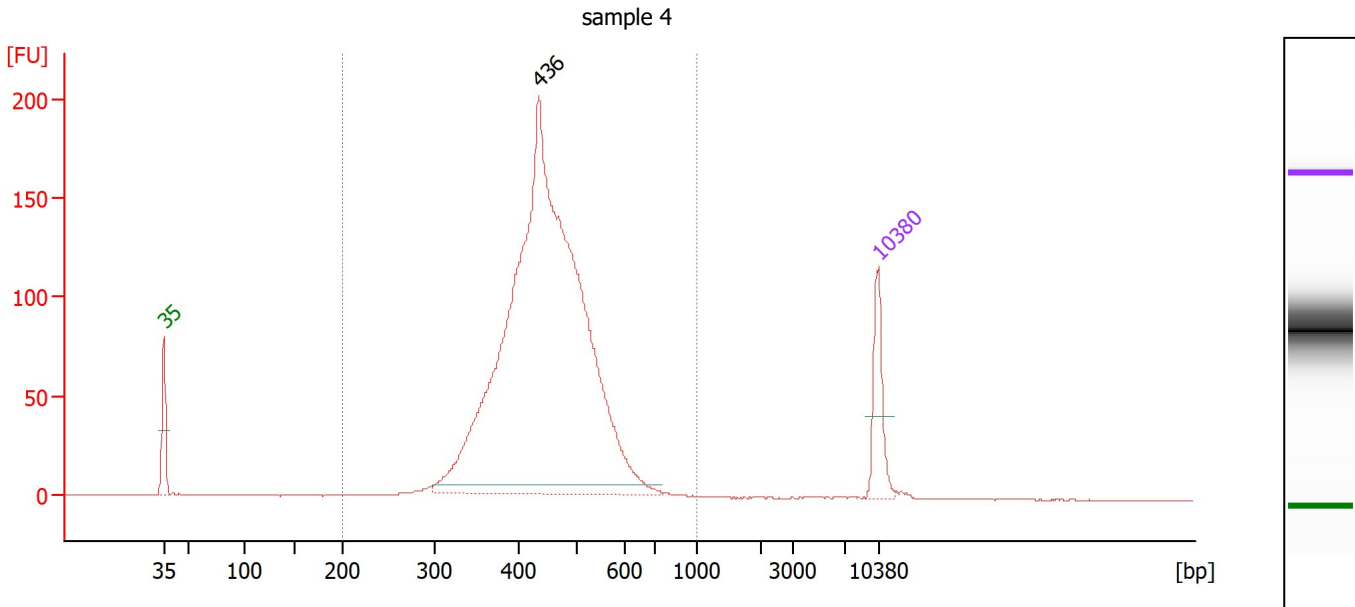
Region table for sample 3 : P3

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	709.0	27	712	25.9	748.88	1,790.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 1 Corr. Area 1: 1,944.5
 Noise: 0.2

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	436	1,877.10	6,519.2	
3	10,380	75.00	10.9	Upper Marker

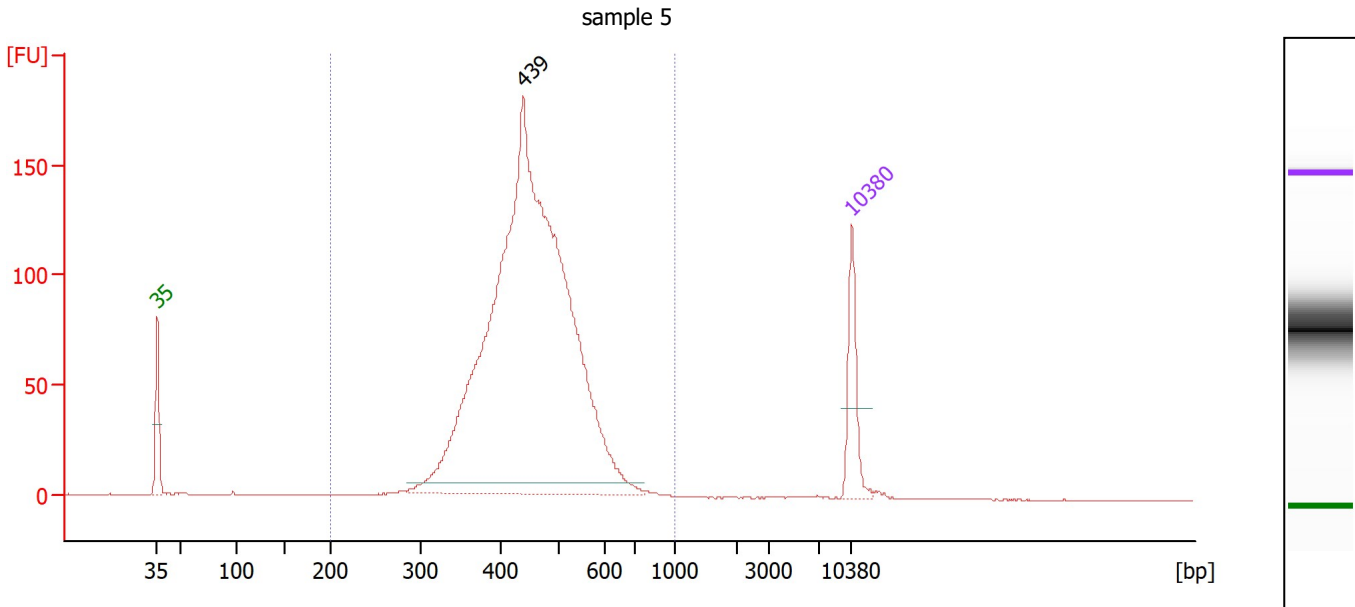
Region table for sample 4 : sample 4

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	1,944.5	98	451	16.5	1,953.80	6,793.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 1 Corr. Area 1: 1,853.2
 Noise: 0.1

Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	439	1,839.24	6,354.2	
3	10,380	75.00	10.9	Upper Marker

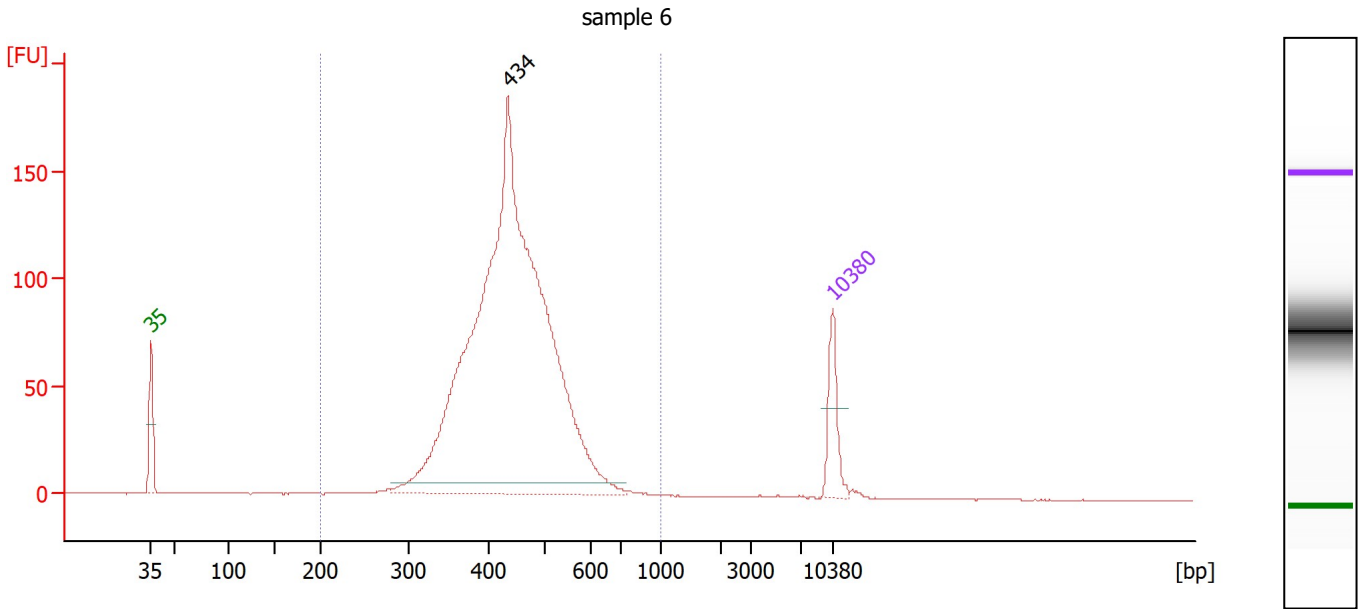
Region table for sample 5 : sample 5

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	1,853.2	99	454	16.8	1,886.15	6,519.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 1 Corr. Area 1: 1,716.4
 Noise: 0.2

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	434	2,159.14	7,539.8	
3	10,380	75.00	10.9	Upper Marker

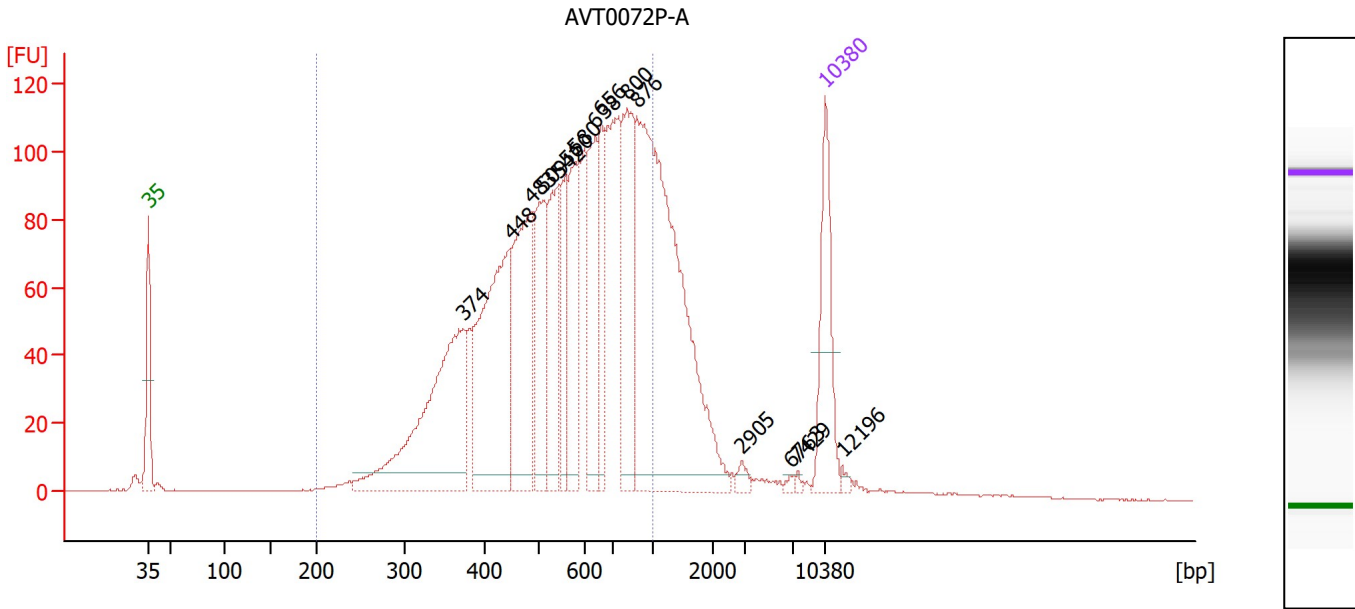
Region table for sample 6 : sample 6

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	1,716.4	98	444	17.0	2,236.32	7,913.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : AVT0072P-A

Number of peaks found: 15 Corr. Area 1: 2,310.8
 Noise: 0.2

Peak table for sample 7 : AVT0072P-A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	374	268.43	1,087.5	
3	448	248.42	840.8	
4	483	172.17	539.6	
5	509	109.66	326.2	
6	542	99.62	278.4	
7	560	64.30	174.0	
8	580	92.83	242.5	
9	638	97.61	231.8	
10	656	65.87	152.1	
11	800	125.45	237.7	
12	876	457.31	790.6	
13	2,905	6.25	3.3	
14	6,763	2.69	0.6	
15	7,429	2.04	0.4	
16	10,380	75.00	10.9	Upper Marker
17	12,196	0.00	0.0	

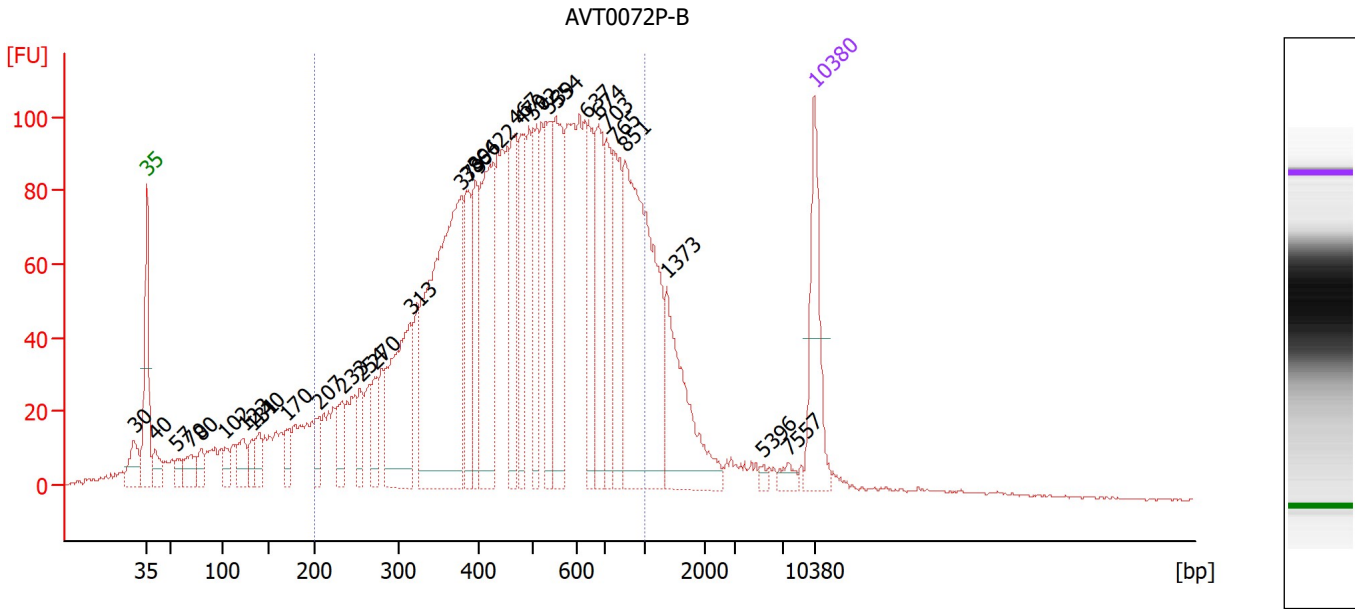
Region table for sample 7 : AVT0072P-A

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	2,310.8	82	579	31.4	1,886.57	5,702.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : AVT0072P-B

Number of peaks found: 32 Corr. Area 1: 2,919.2
 Noise: 0.3

Peak table for sample 8 : AVT0072P-B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	30	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	40	31.51	1,183.9	
4	57	17.70	471.7	
5	70	31.00	672.4	
6	80	20.44	388.0	
7	102	20.12	298.5	
8	123	37.28	460.7	
9	131	22.07	254.4	
10	140	24.19	262.5	
11	170	24.46	217.7	
12	207	26.35	193.2	
13	233	36.56	237.4	
14	254	34.76	207.6	
15	270	35.30	197.7	
16	313	165.11	798.8	
17	379	384.67	1,539.3	
18	386	84.99	333.5	
19	396	73.94	282.6	
20	422	161.86	580.8	
21	467	105.15	340.8	
22	479	86.87	274.7	
23	502	80.68	243.4	
24	539	89.81	252.3	
25	554	122.70	335.8	
26	637	86.67	206.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
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Electropherogram Summary Continued ...

... Peak table for sample 8 : AVT0072P-B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	674	91.57	205.9	
28	703	77.70	167.4	
29	765	81.79	162.0	
30	851	293.41	522.6	
31	1,373	112.45	124.1	
32	5,396	4.66	1.3	
33	7,557	8.58	1.7	
34	▶ 10,380	75.00	10.9	Upper Marker

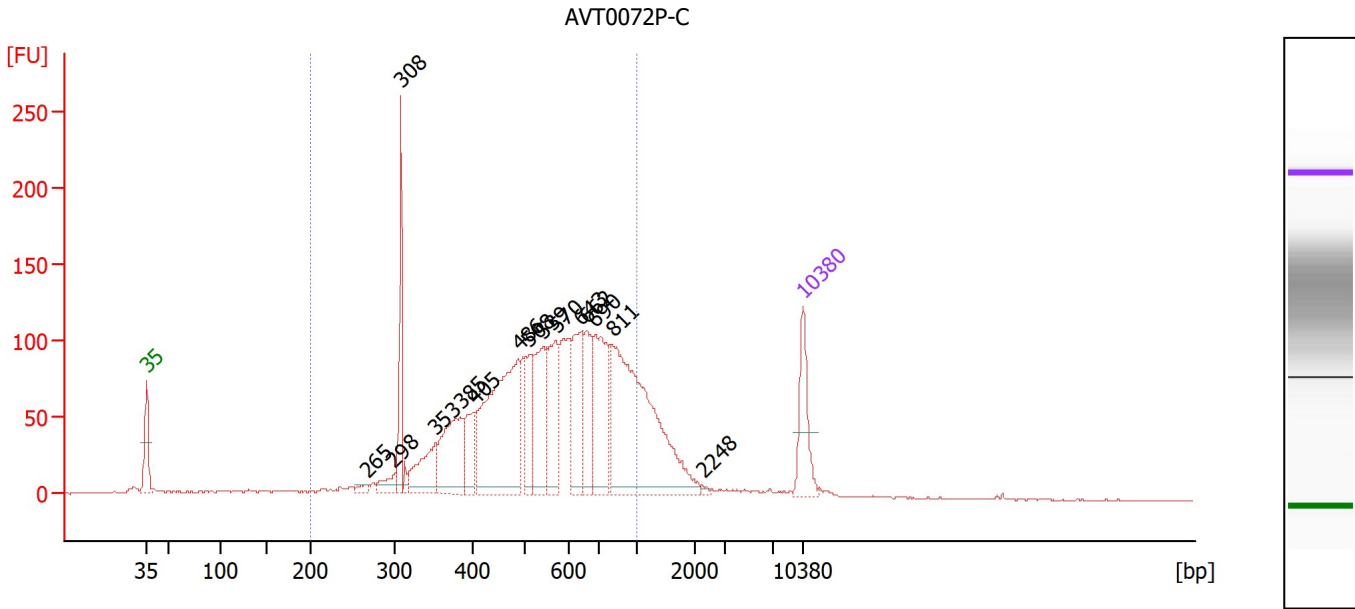
Region table for sample 8 : AVT0072P-B

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	2,919.2	79	514	35.5	2,839.07	10,088.5	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : AVT0072P-C

Number of peaks found: 15 Corr. Area 1: 2,294.4
 Noise: 0.3

Peak table for sample 9 : AVT0072P-C

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	11.37	64.9	
3	298	33.06	168.1	
4	308	124.62	613.9	
5	353	94.98	408.1	
6	385	160.63	631.9	
7	405	75.54	282.9	
8	486	381.27	1,187.6	
9	508	81.38	242.8	
10	539	143.05	401.8	
11	570	125.68	334.2	
12	643	135.74	319.8	
13	662	106.56	244.0	
14	690	171.97	377.7	
15	811	470.16	878.9	
16	2,248	3.37	2.3	
17	10,380	75.00	10.9	Upper Marker

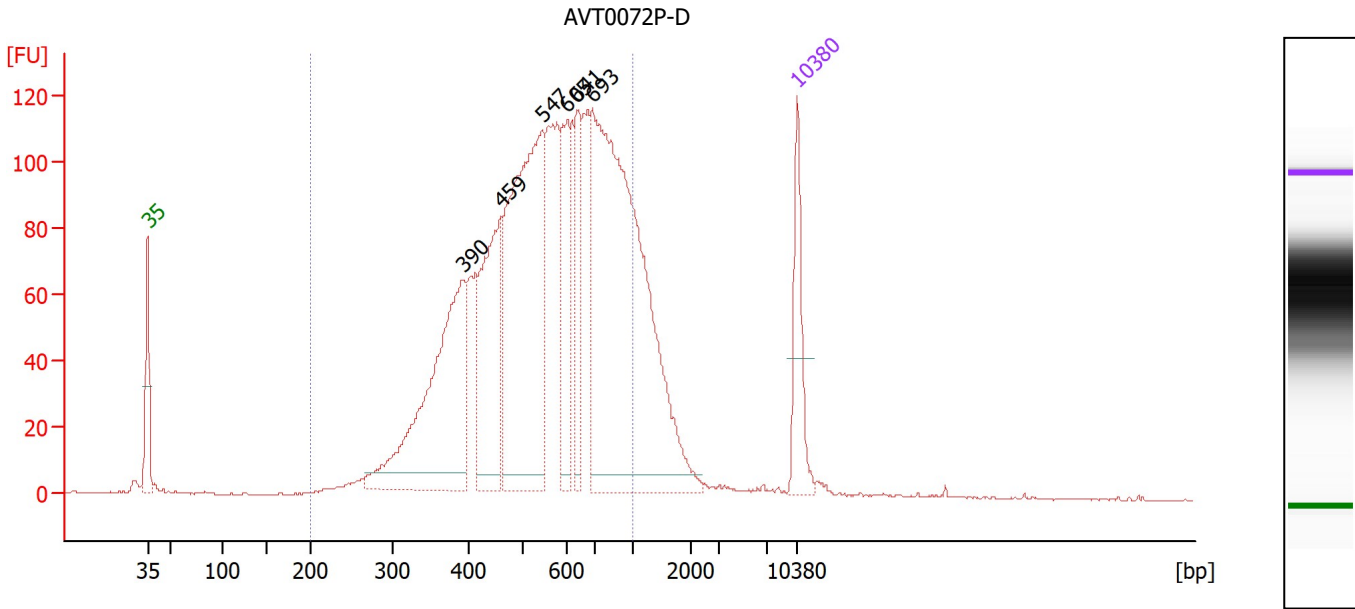
Region table for sample 9 : AVT0072P-C

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	2,294.4	85	562	31.4	2,185.11	6,812.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : AVT0072P-D

Number of peaks found: 6 Corr. Area 1: 2,385.7
 Noise: 0.2

Peak table for sample 10 : AVT0072P-D

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	390	390.70	1,517.0	
3	459	237.69	785.4	
4	547	500.60	1,387.8	
5	605	120.16	301.1	
6	641	96.31	227.8	
7	693	789.78	1,725.7	
8	10,380	75.00	10.9	Upper Marker

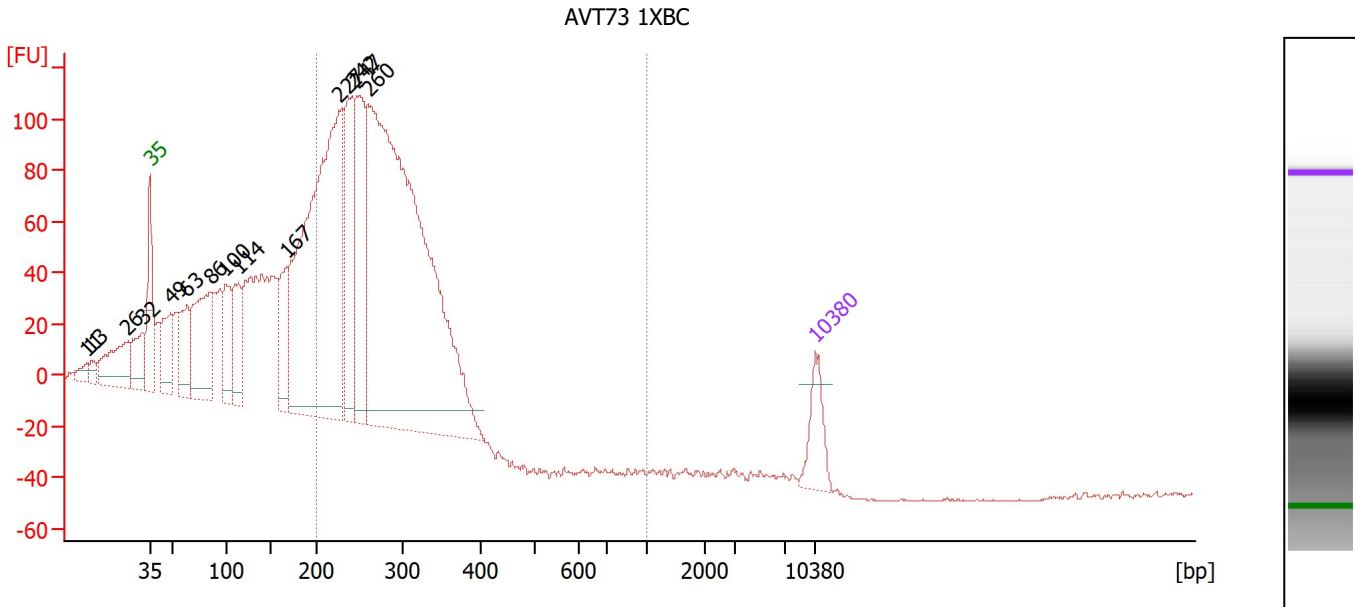
Region table for sample 10 : AVT0072P-D

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	2,385.7	88	573	29.9	2,421.70	7,253.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : AVT73 1XBC

Number of peaks found: 14 Corr. Area 1: 1,987.2
 Noise: 0.3

Peak table for sample 11 : AVT73 1XBC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	11	0.00	0.0	
2	13	0.00	0.0	
3	26	0.00	0.0	
4	32	0.00	0.0	
5	35	125.00	5,411.3	Lower Marker
6	49	175.81	5,489.3	
7	63	168.30	4,018.2	
8	86	358.91	6,322.1	
9	100	167.85	2,554.8	
10	114	174.83	2,320.6	
11	167	154.96	1,404.4	
12	227	1,312.67	8,779.5	
13	242	357.74	2,239.0	
14	247	374.32	2,295.6	
15	260	2,131.84	12,417.7	
16	10,380	75.00	10.9	Upper Marker

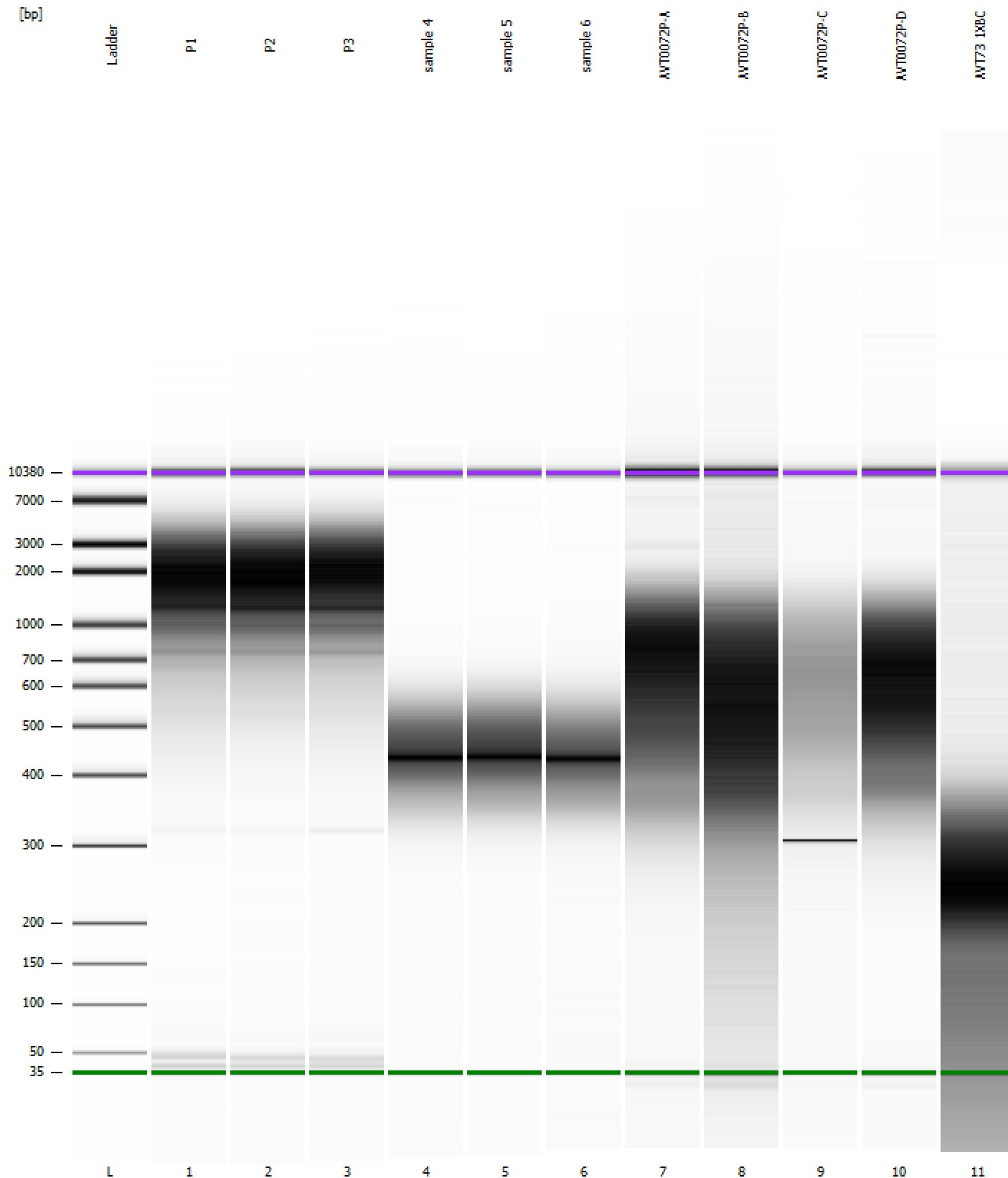
Region table for sample 11 : AVT73 1XBC

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	1,987.2	57	272	16.5	3,244.82	18,513.2	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
Modified: 10/26/2023 1:49:26 PM

Gel Image

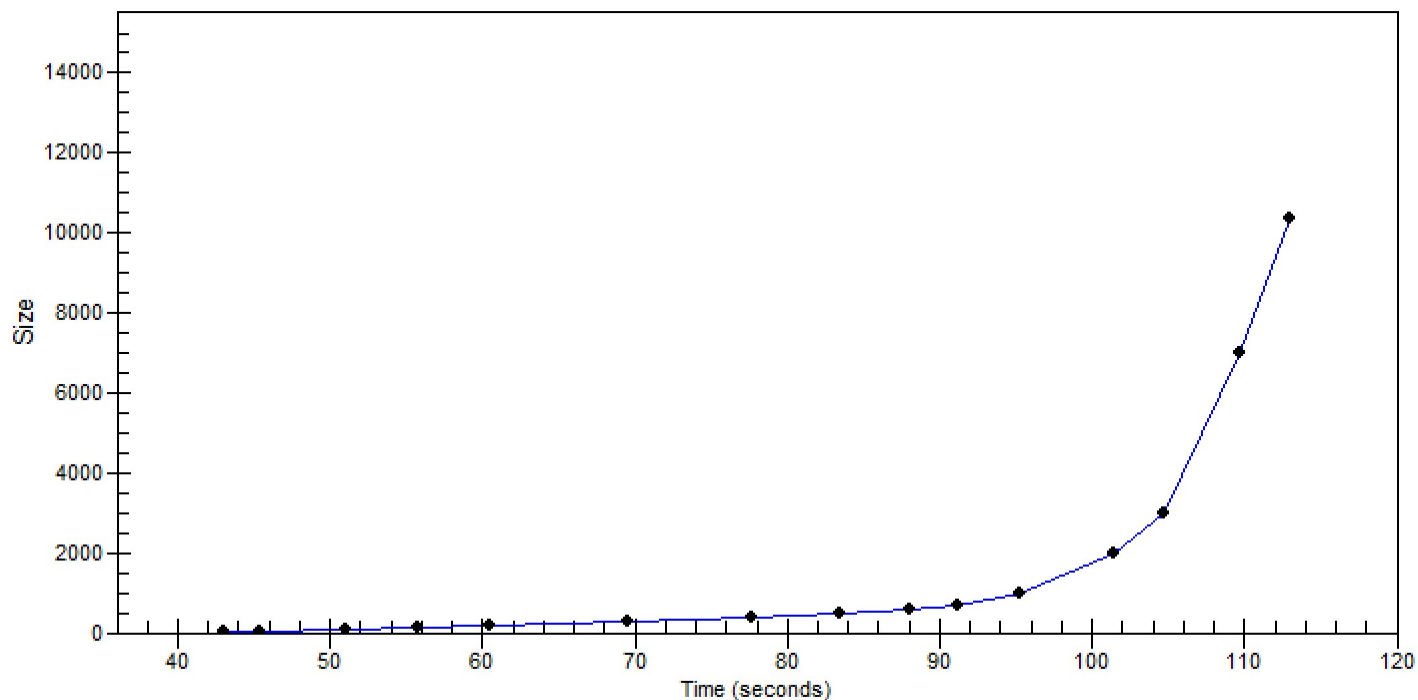


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
Modified: 10/26/2023 1:49:26 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad

Created: 10/26/2023 12:40:35 PM
 Modified: 10/26/2023 1:49:26 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		10/26/2023 1:21:54 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\2023-10-26\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-10-26_001.xad)		Instrument	Run		10/26/2023 12:40:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		10/26/2023 12:40:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		10/26/2023 12:40:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		10/26/2023 12:40:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		10/26/2023 12:40:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		10/26/2023 12:40:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		10/26/2023 12:40:42 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB