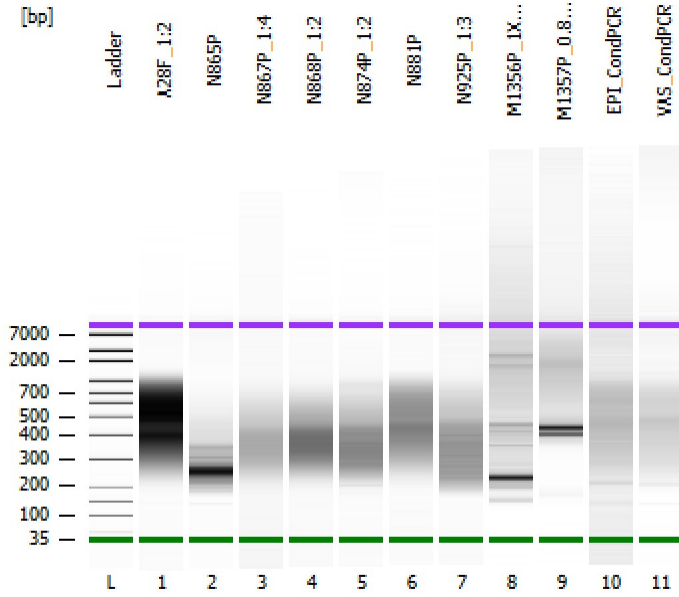


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
Modified: 7/18/2023 5:34:42 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

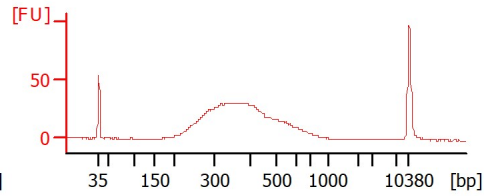
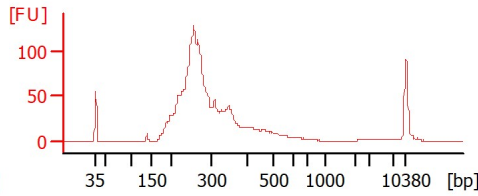
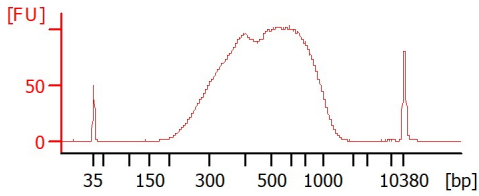
Chip Information:

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

A28F_1:2

N865P

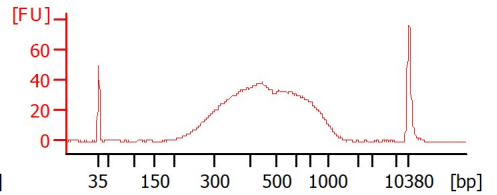
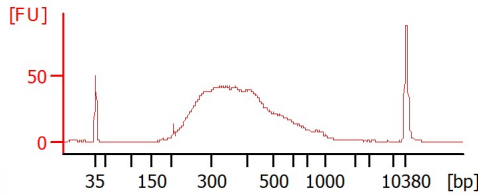
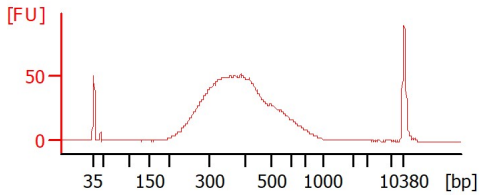
N867P_1:4



N868P_1:2

N874P_1:2

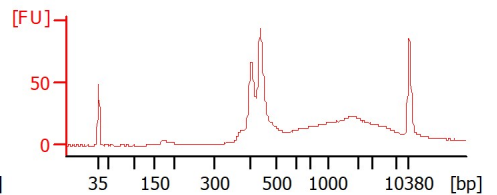
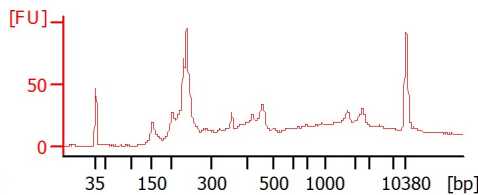
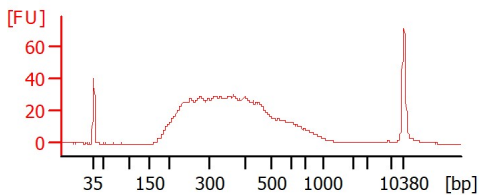
N881P



N925P_1:3

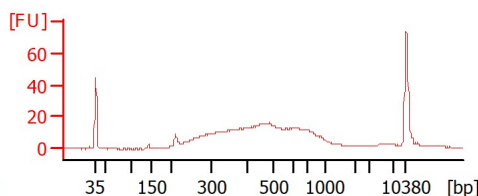
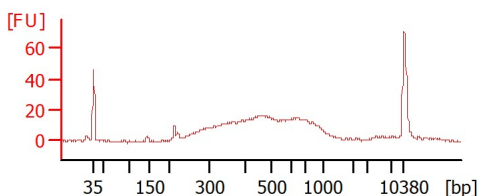
M1356P_1XBC_1:2

M1357P_0.8XBC_1:12



EPI_CondPCR

VAS_CondPCR



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A28F_1:2		<input type="checkbox"/>	✓			
N865P		<input type="checkbox"/>	✓			
N867P_1:4		<input type="checkbox"/>	✓			
N868P_1:2		<input type="checkbox"/>	✓			
N874P_1:2		<input type="checkbox"/>	✓			
N881P		<input type="checkbox"/>	✓			
N925P_1:3		<input type="checkbox"/>	✓			
M1356P_1XBC_1:2		<input type="checkbox"/>	✓			
M1357P_0.8XBC_1:12		<input type="checkbox"/>	✓			
EPI_CondPCR		<input type="checkbox"/>	✓			
VAS_CondPCR		<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_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 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

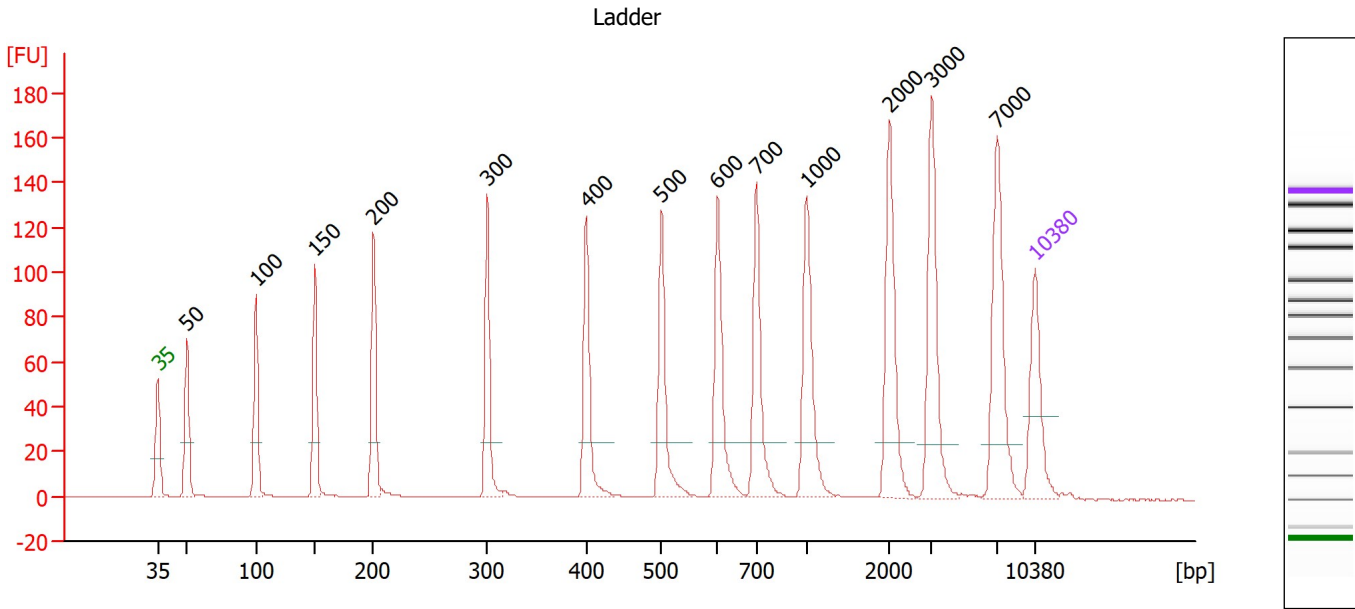
Ladder

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_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

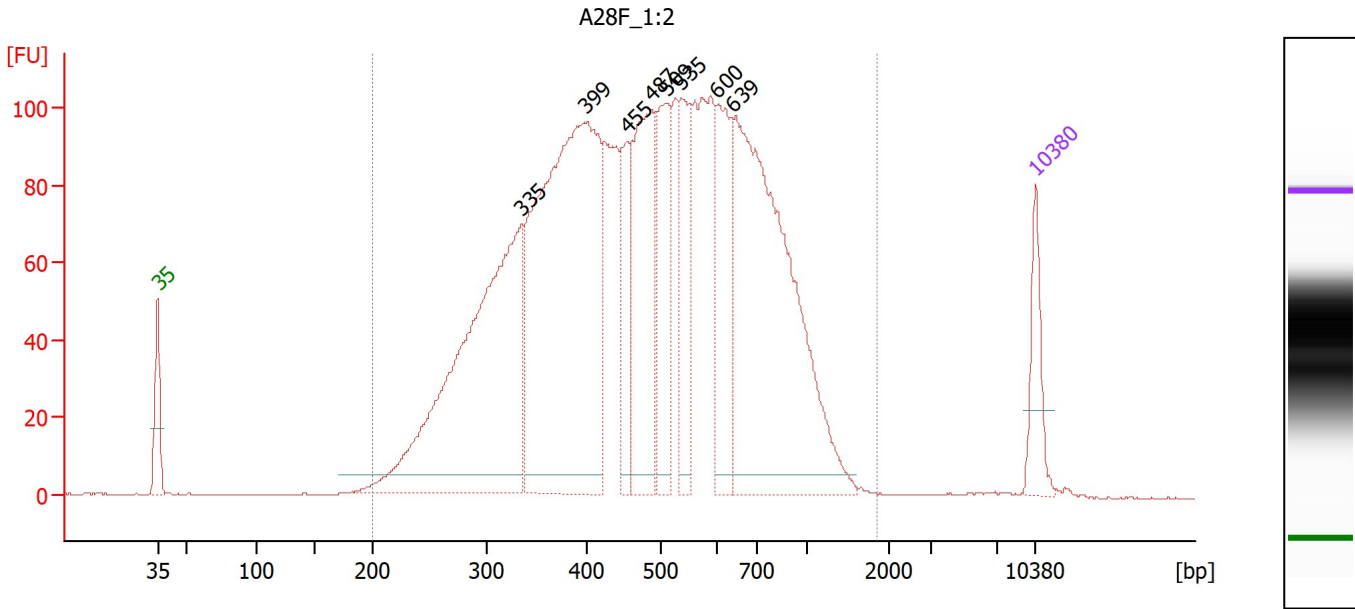
Peak table for Ladder

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_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : A28F 1:2

Number of peaks found: 8 Corr. Area 1: 2,997.5
 Noise: 0.1

Peak table for sample 1 : A28F 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	335	952.40	4,314.0	
3	399	1,152.59	4,380.6	
4	455	164.18	546.5	
5	487	363.19	1,130.2	
6	509	217.56	648.0	
7	535	158.94	450.1	
8	600	217.09	548.1	
9	639	882.09	2,092.8	
10	10,380	75.00	10.9	Upper Marker

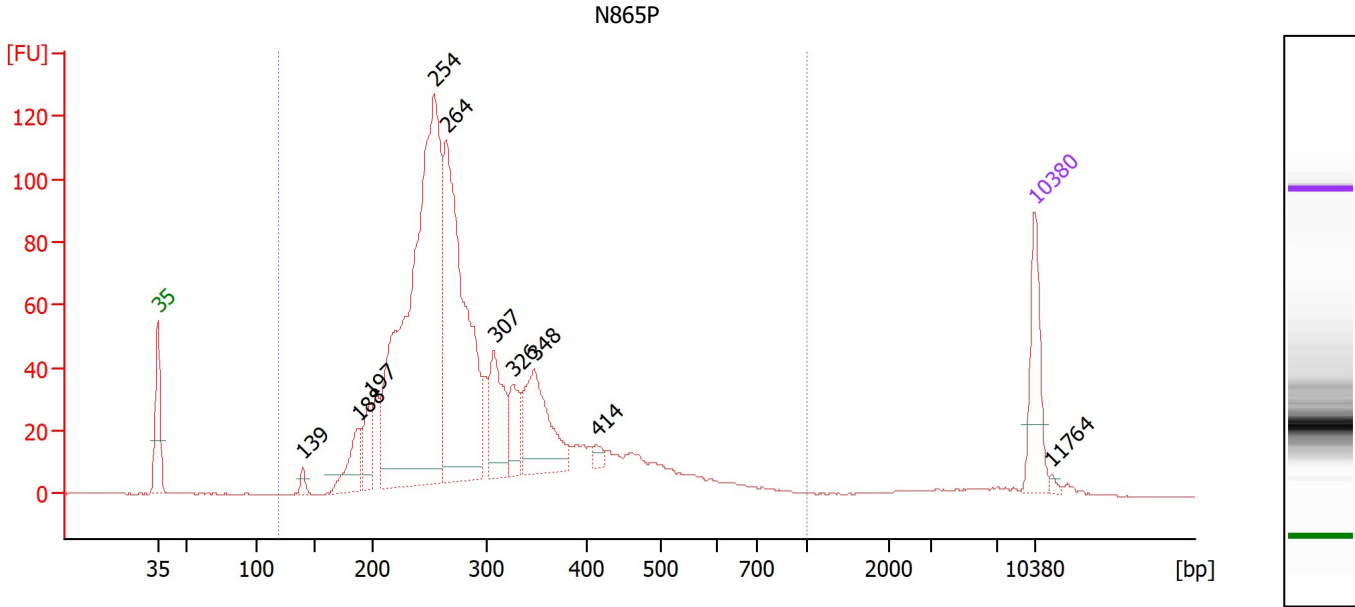
Region table for sample 1 : A28F 1:2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,847	2,997.5	99	518	39.8	5,054.75	17,782.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : N865P

Number of peaks found: 10 Corr. Area 1: 1,470.0
 Noise: 0.1

Peak table for sample 2 : N865P

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	139	14.07	152.9	
3	188	72.31	584.0	
4	197	57.27	439.6	
5	254	935.22	5,581.5	
6	264	534.96	3,071.2	
7	307	118.03	582.7	
8	326	61.02	283.2	
9	348	156.89	682.8	
10	414	11.93	43.7	
11	10,380	75.00	10.9	Upper Marker
12	11,764	0.00	0.0	

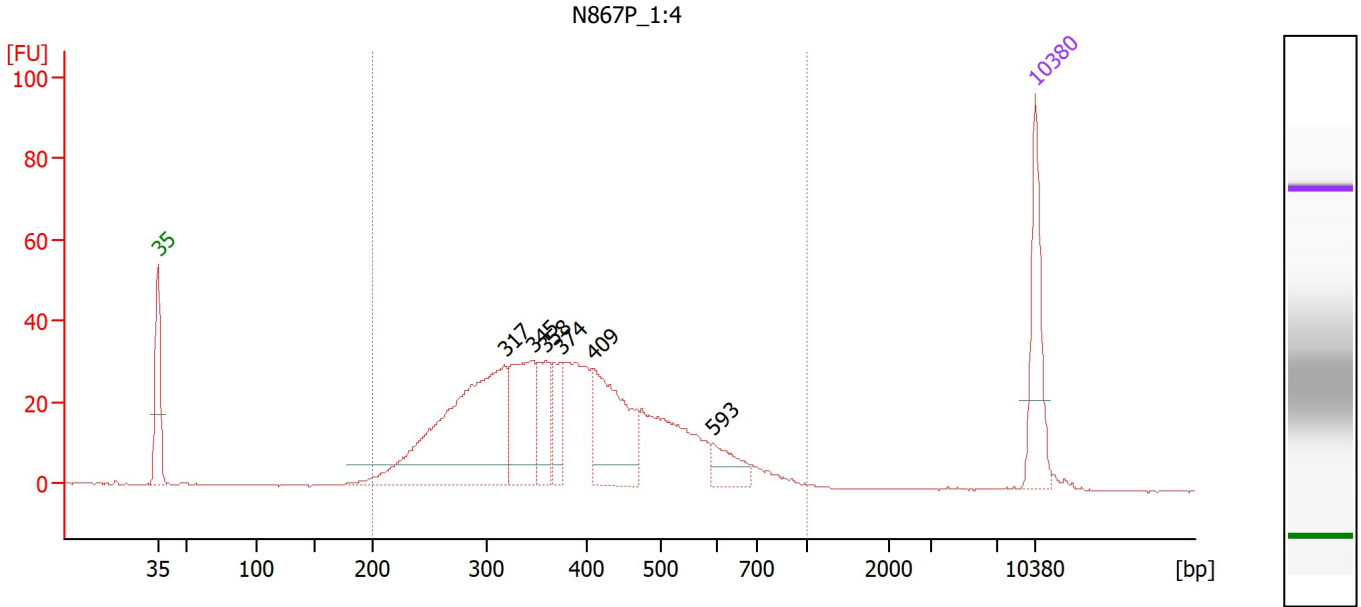
Region table for sample 2 : N865P

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
120	1,000	1,470.0	97	299	32.7	2,493.05	13,998.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : N867P 1:4

Number of peaks found: 6 Corr. Area 1: 752.1
 Noise: 0.2

Peak table for sample 3 : N867P 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	317	368.93	1,761.2	
3	345	132.33	580.4	
4	358	65.20	275.9	
5	374	42.88	173.6	
6	409	149.72	554.9	
7	593	36.93	94.4	
8	10,380	75.00	10.9	Upper Marker

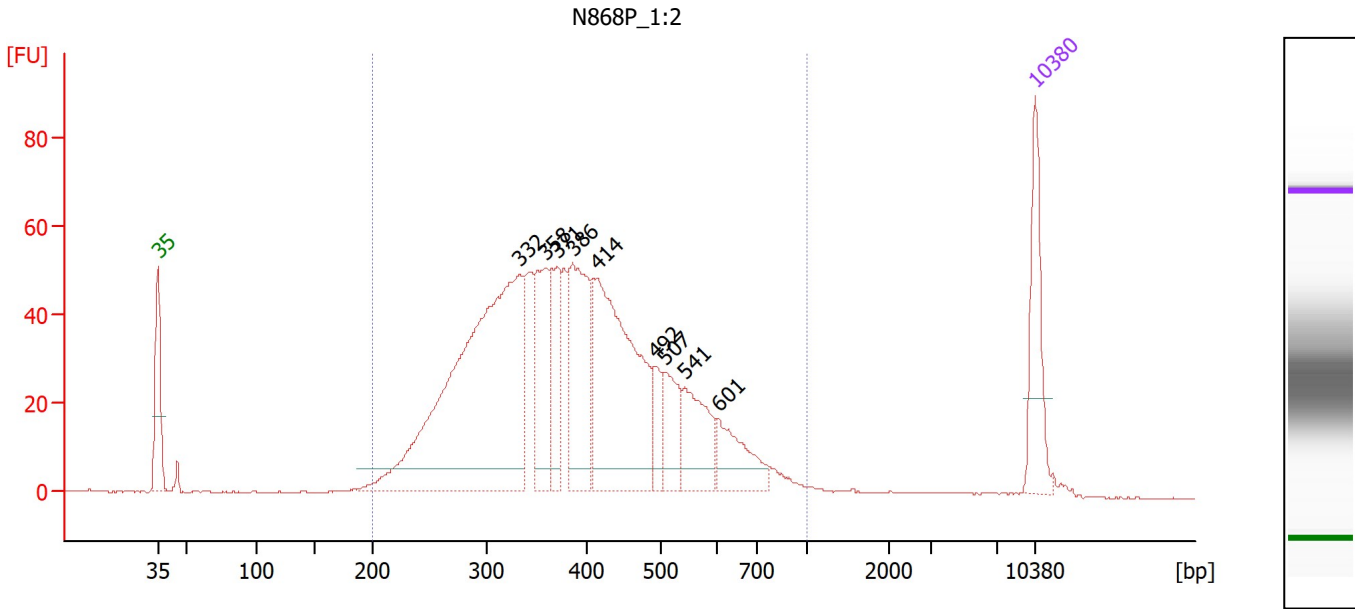
Region table for sample 3 : N867P 1:4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	752.1	98	394	29.8	1,138.67	4,882.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : N868P 1:2

Number of peaks found: 9 Corr. Area 1: 1,197.4
 Noise: 0.2

Peak table for sample 4 : N868P 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	332	640.34	2,918.9	
3	358	124.35	526.2	
4	371	75.42	308.2	
5	386	166.01	651.8	
6	414	318.16	1,164.0	
7	492	36.35	111.9	
8	507	62.75	187.7	
9	541	86.10	241.1	
10	601	66.57	167.8	
11	10,380	75.00	10.9	Upper Marker

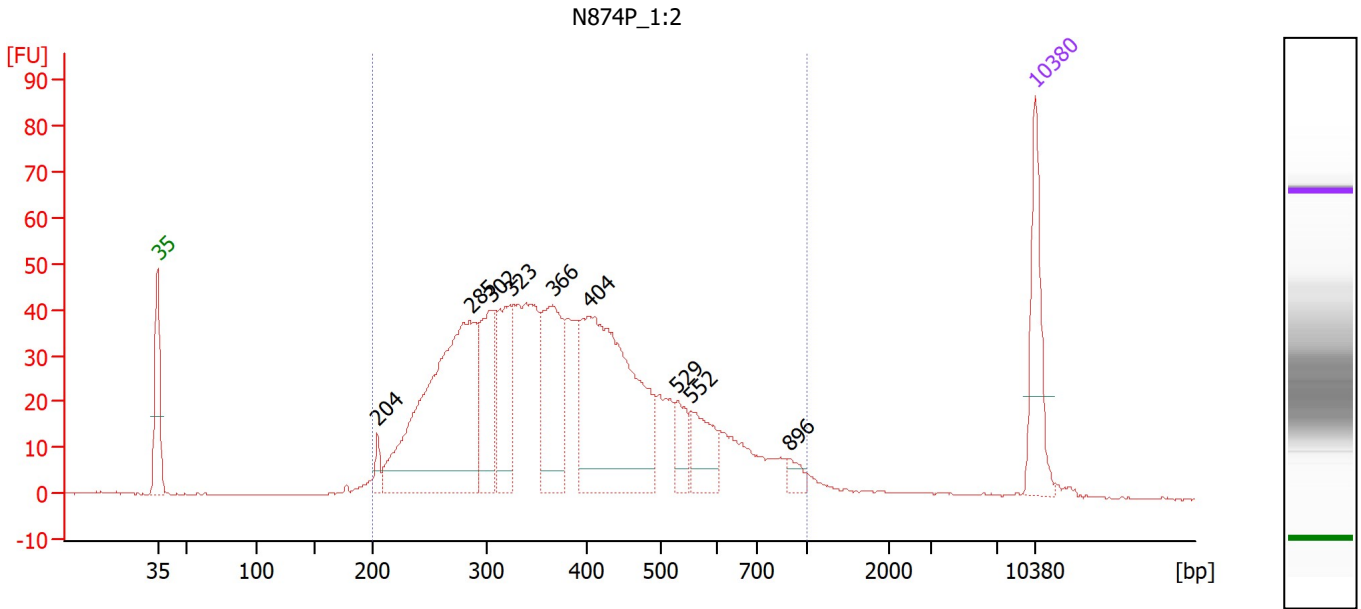
Region table for sample 4 : N868P 1:2

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	1,197.4	98	401	29.3	1,865.45	7,831.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : N874P 1:2

Number of peaks found: 9 Corr. Area 1: 1,081.6
 Noise: 0.2

Peak table for sample 5 : N874P 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	204	18.62	138.6	
3	285	445.53	2,370.9	
4	302	117.86	590.3	
5	323	127.99	601.1	
6	366	158.88	657.9	
7	404	358.63	1,345.0	
8	529	36.84	105.5	
9	552	57.94	159.1	
10	896	12.90	21.8	
11	10,380	75.00	10.9	Upper Marker

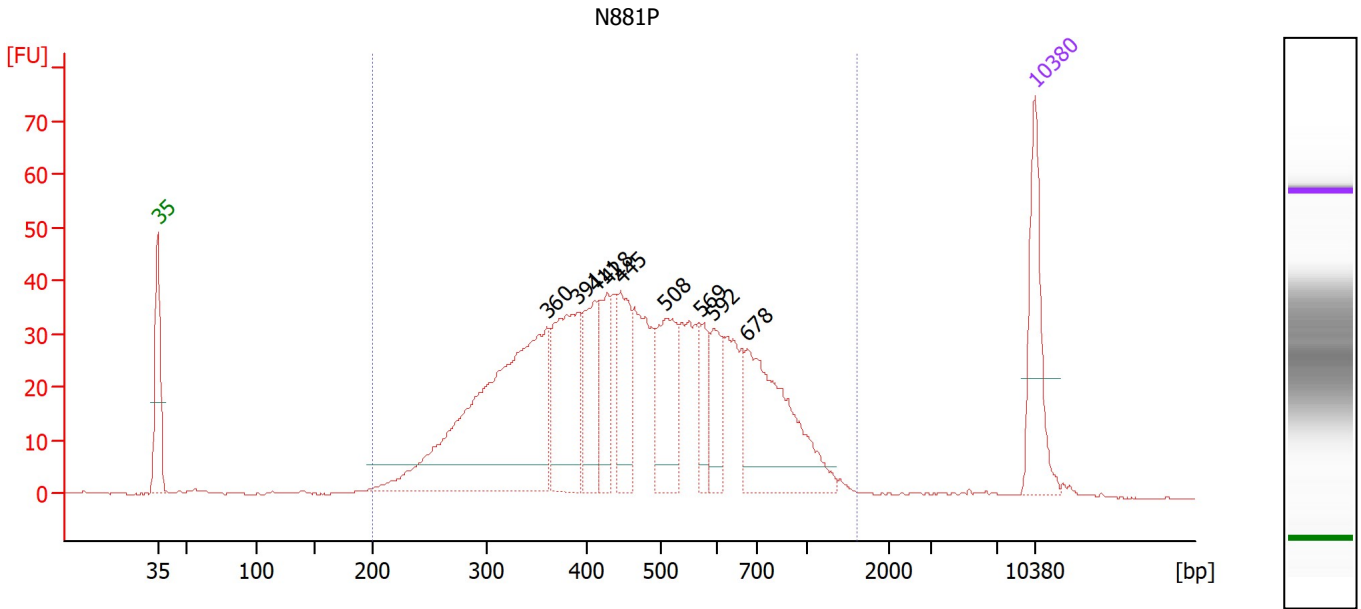
Region table for sample 5 : N874P 1:2

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	1,081.6	98	396	34.2	1,797.66	7,846.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : N881P

Number of peaks found: 9 Corr. Area 1: 1,013.1
 Noise: 0.1

Peak table for sample 6 : N881P

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	360	420.86	1,771.8	
3	391	148.41	575.6	
4	411	77.01	284.2	
5	428	71.09	251.6	
6	445	86.00	293.1	
7	508	99.45	296.9	
8	569	39.75	105.9	
9	592	51.51	131.8	
10	678	178.42	398.9	
11	10,380	75.00	10.9	Upper Marker

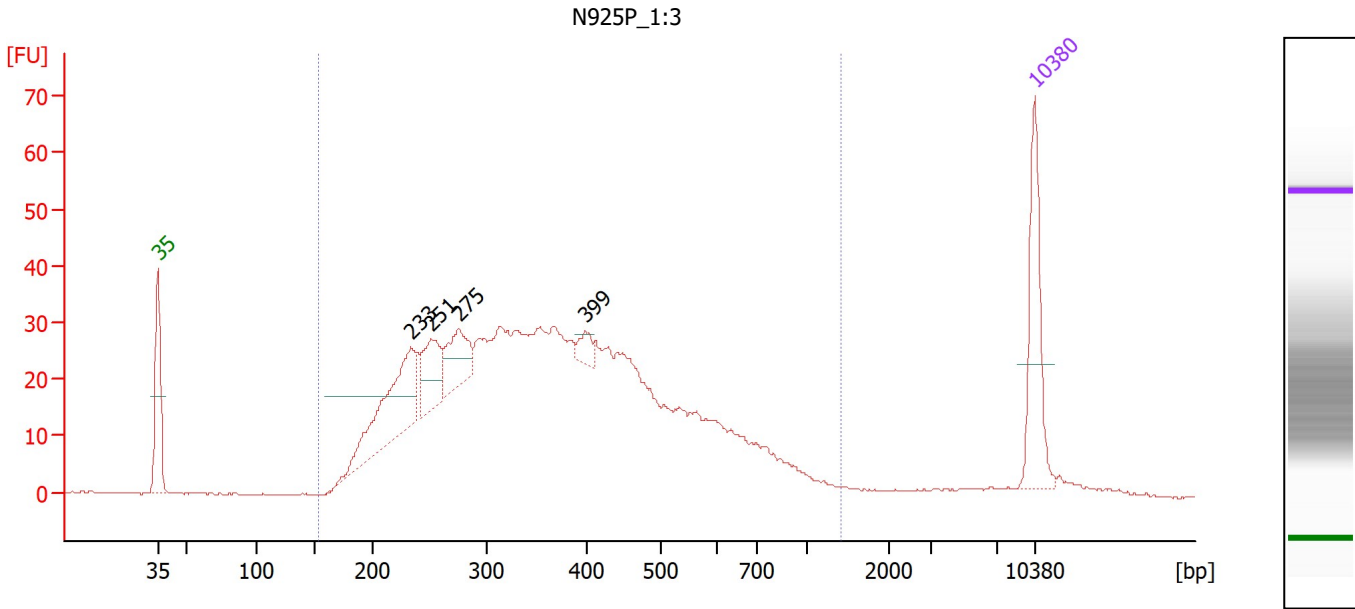
Region table for sample 6 : N881P

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,605	1,013.1	98	496	39.1	1,577.41	5,725.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : N925P 1:3

Number of peaks found: 4 Corr. Area 1: 929.8
 Noise: 0.1

Peak table for sample 7 : N925P 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	233	145.73	949.2	
3	251	61.78	373.5	
4	275	59.70	329.0	
5	399	15.26	58.0	
6	10,380	75.00	10.9	Upper Marker

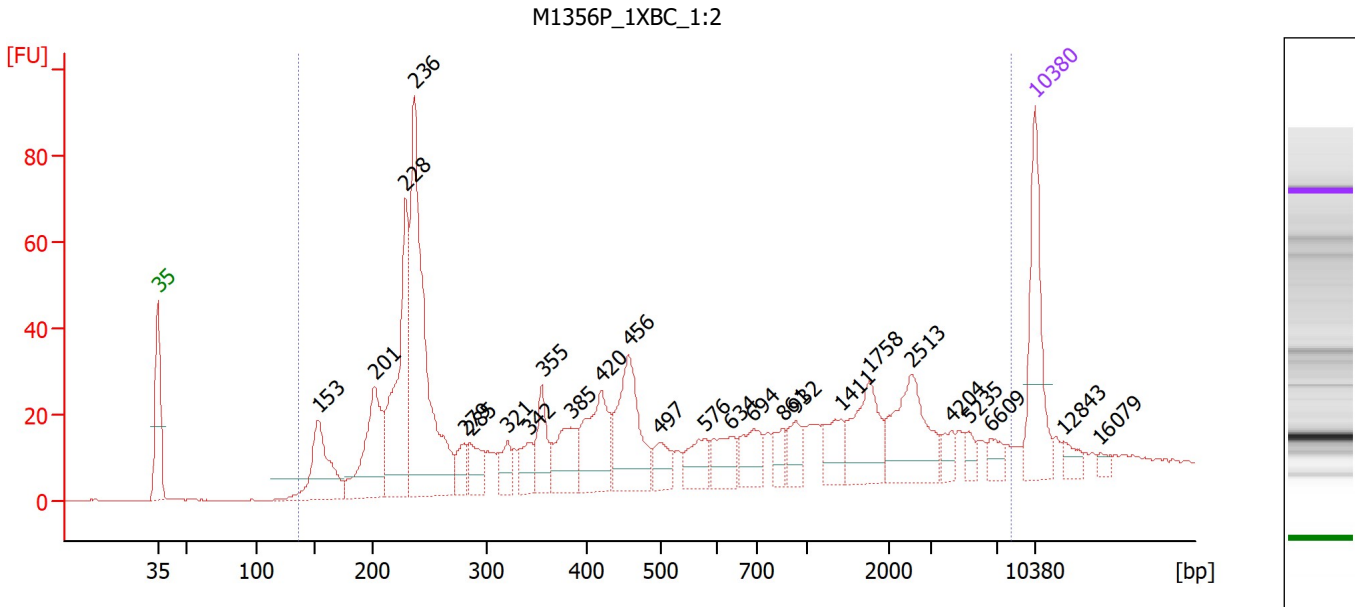
Region table for sample 7 : N925P 1:3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
153	1,409	929.8	98	388	41.2	1,831.61	8,606.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : M1356P_1XBC_1:2

Number of peaks found: 26 Corr. Area 1: 1,140.0
 Noise: 0.2

Peak table for sample 8 : M1356P_1XBC_1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	153	99.48	988.1	
3	201	112.72	851.6	
4	228	184.78	1,228.2	
5	236	304.77	1,959.4	
6	279	22.14	120.1	
7	285	30.98	164.8	
8	321	25.09	118.6	
9	342	26.26	116.5	
10	355	42.42	180.9	
11	385	51.56	203.2	
12	420	79.78	287.8	
13	456	102.45	340.4	
14	497	26.46	80.6	
15	576	31.25	82.2	
16	634	33.52	80.2	
17	694	35.70	77.9	
18	861	16.59	29.2	
19	932	23.05	37.5	
20	1,411	27.43	29.5	
21	1,758	56.29	48.5	
22	2,513	71.61	43.2	
23	4,204	12.92	4.7	
24	5,235	8.88	2.6	
25	6,609	12.42	2.8	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : M1356P 1XBC 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	12,843	0.00	0.0	
28	16,079	0.00	0.0	

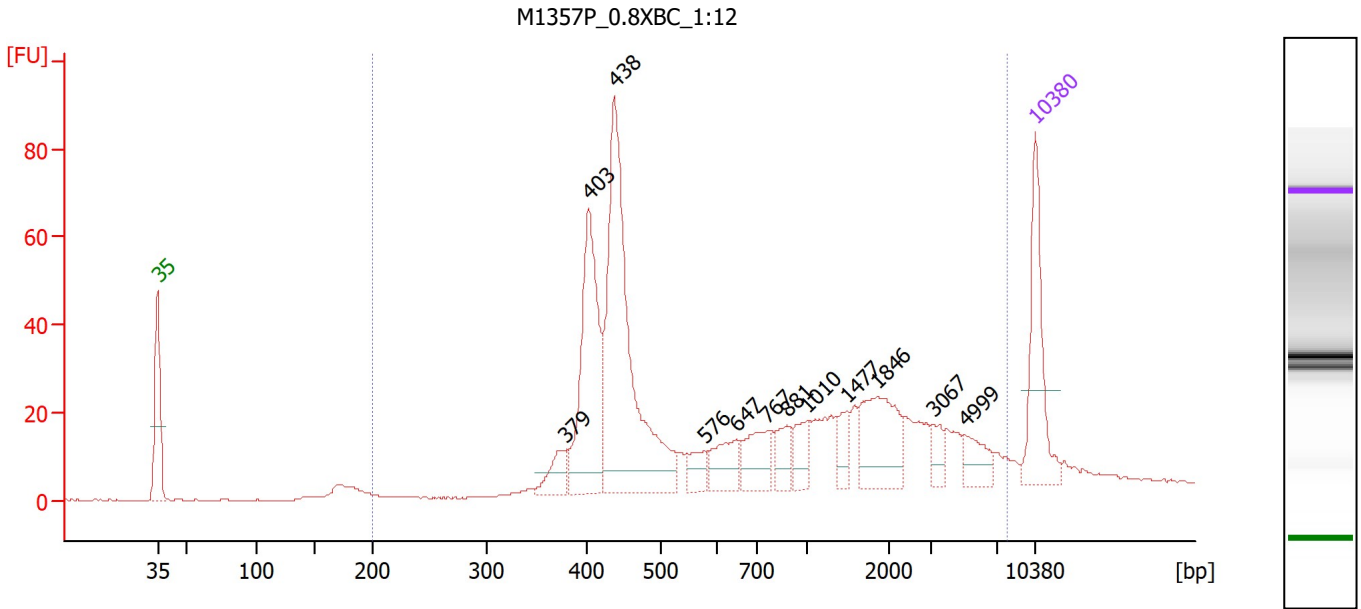
Region table for sample 8 : M1356P 1XBC 1:2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
136	8,222	1,140.0	88	1,112	100.0	1,660.67	7,490.0	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : M1357P 0.8XBC 1:12

Number of peaks found: 12 Corr. Area 1: 732.8
 Noise: 0.1

Peak table for sample 9 : M1357P 0.8XBC 1:12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	379	30.39	121.6	
3	403	183.83	691.2	
4	438	324.83	1,123.1	
5	576	23.20	61.0	
6	647	37.74	88.3	
7	767	44.96	88.9	
8	881	25.23	43.4	
9	1,010	23.91	35.9	
10	1,477	17.51	18.0	
11	1,846	73.60	60.4	
12	3,067	15.17	7.5	
13	4,999	23.44	7.1	
14	10,380	75.00	10.9	Upper Marker

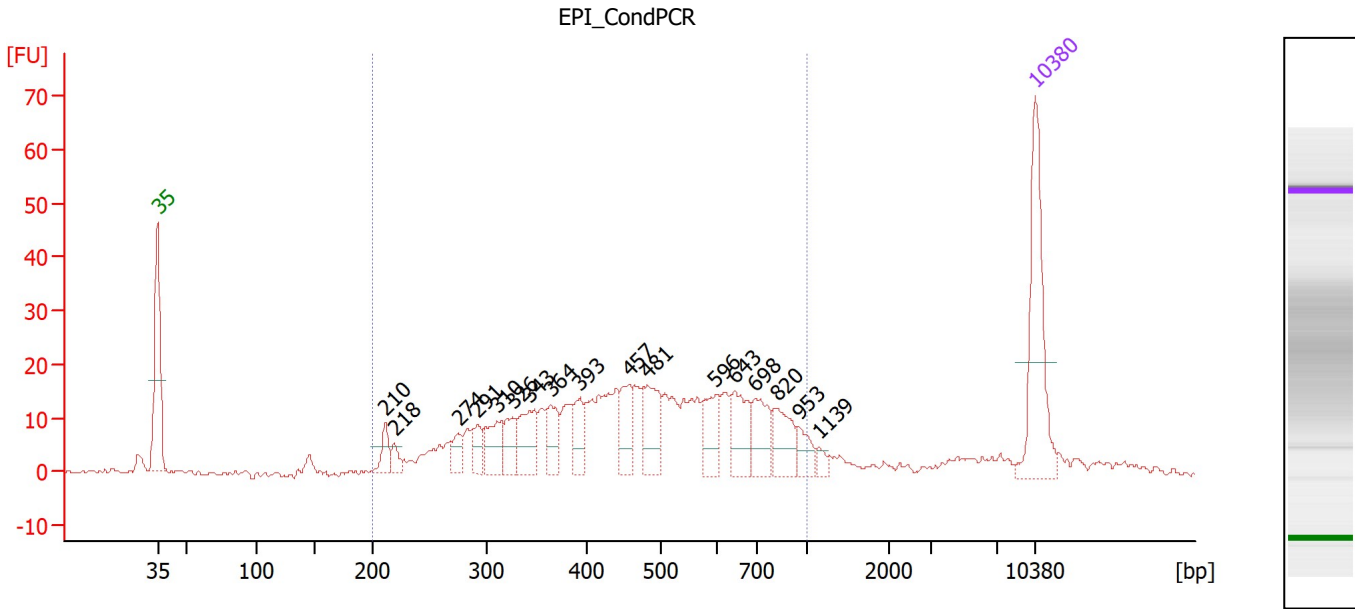
Region table for sample 9 : M1357P 0.8XBC 1:12

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	7,943	732.8	93	1,324	100.0	995.05	2,526.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : EPI_CondPCR

Number of peaks found: 17 Corr. Area 1: 498.1
 Noise: 0.5

Peak table for sample 10 : EPI_CondPCR

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	210	17.99	129.8	
3	218	9.51	65.9	
4	274	13.91	76.9	
5	291	16.90	88.0	
6	310	28.95	141.5	
7	326	22.60	105.2	
8	343	36.36	160.7	
9	364	26.77	111.4	
10	393	24.69	95.2	
11	457	29.90	99.1	
12	481	41.21	129.9	
13	596	30.78	78.2	
14	643	35.30	83.2	
15	698	33.03	71.7	
16	820	30.77	56.9	
17	953	13.92	22.1	
18	1,139	6.36	8.5	
19	10,380	75.00	10.9	Upper Marker

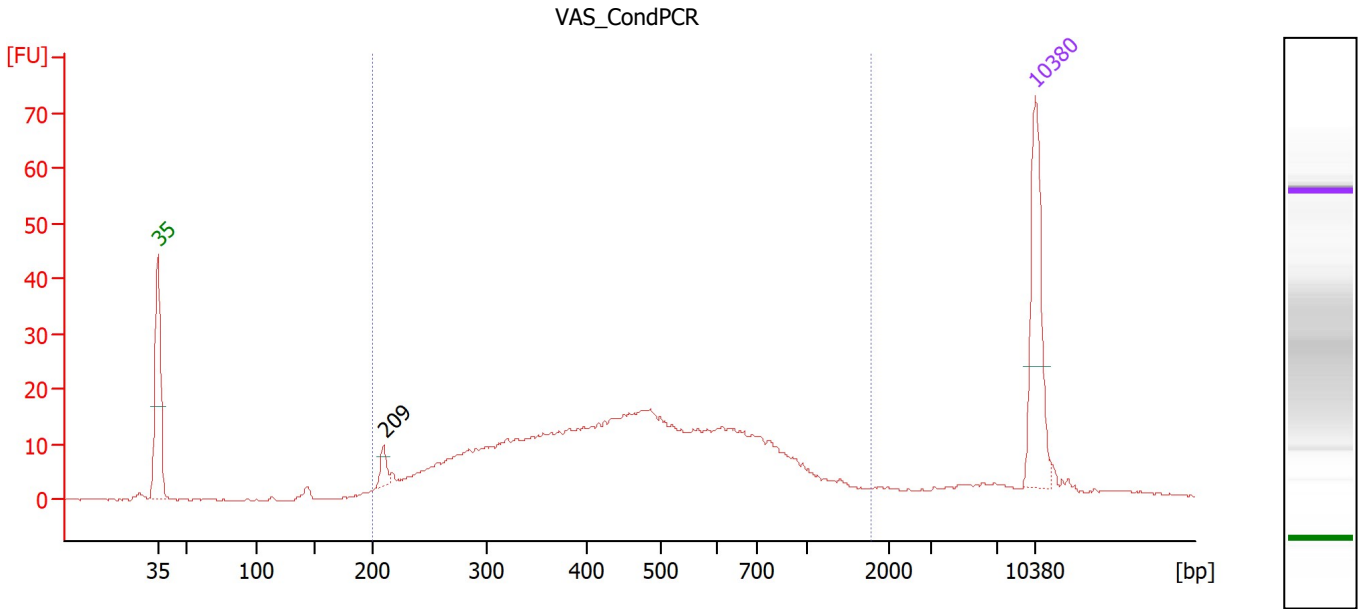
Region table for sample 10 : EPI_CondPCR

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	498.1	74	489	36.3	776.10	2,896.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : VAS_CondPCR

Number of peaks found: 1 Corr. Area 1: 405.1
 Noise: 0.2

Peak table for sample 11 : VAS_CondPCR

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	209	13.83	100.2	
3	10,380	75.00	10.9	Upper Marker

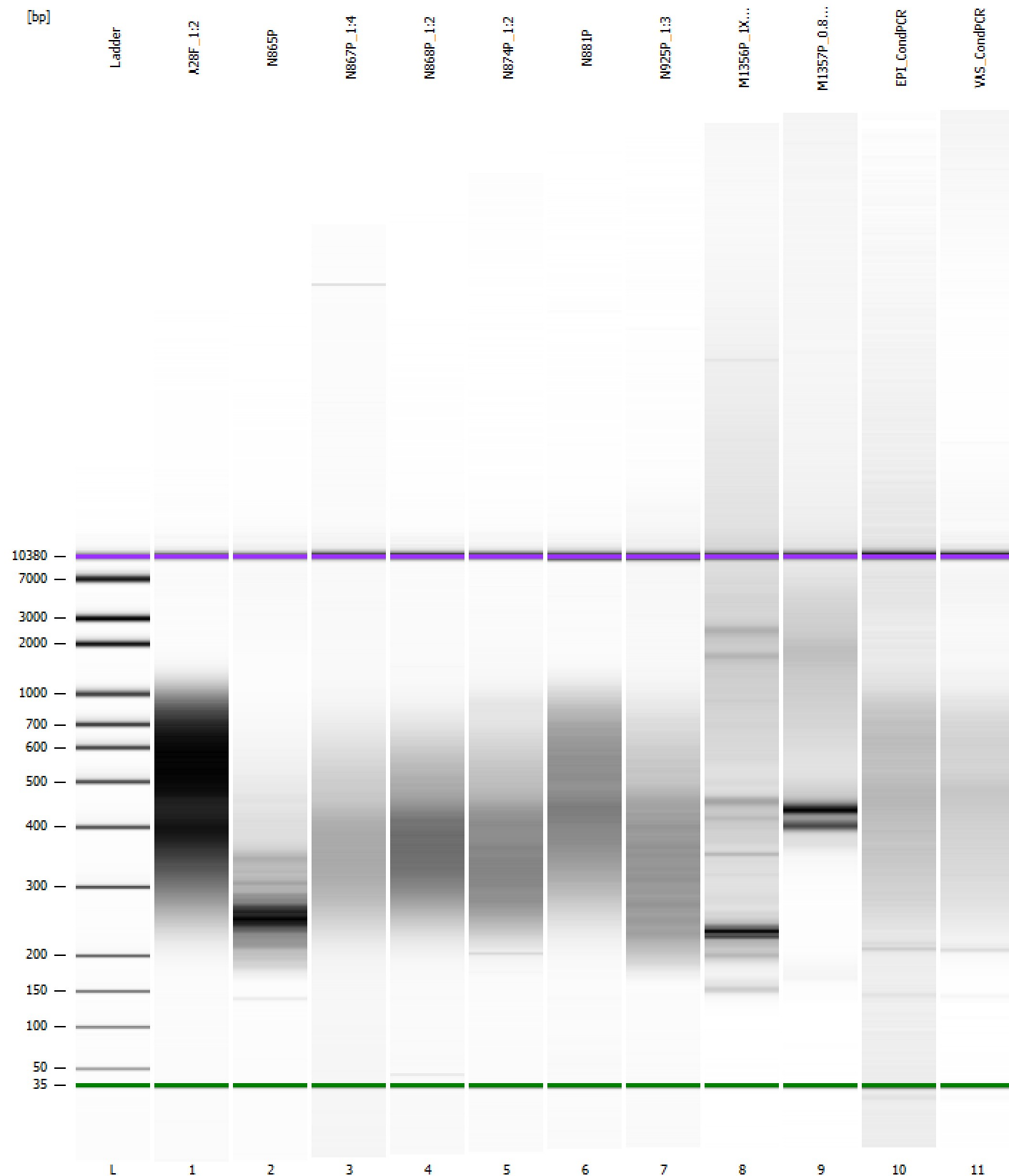
Region table for sample 11 : VAS_CondPCR

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,776	405.1	96	488	43.4	747.58	2,859.6	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
Modified: 7/18/2023 5:34:42 PM

Gel Image

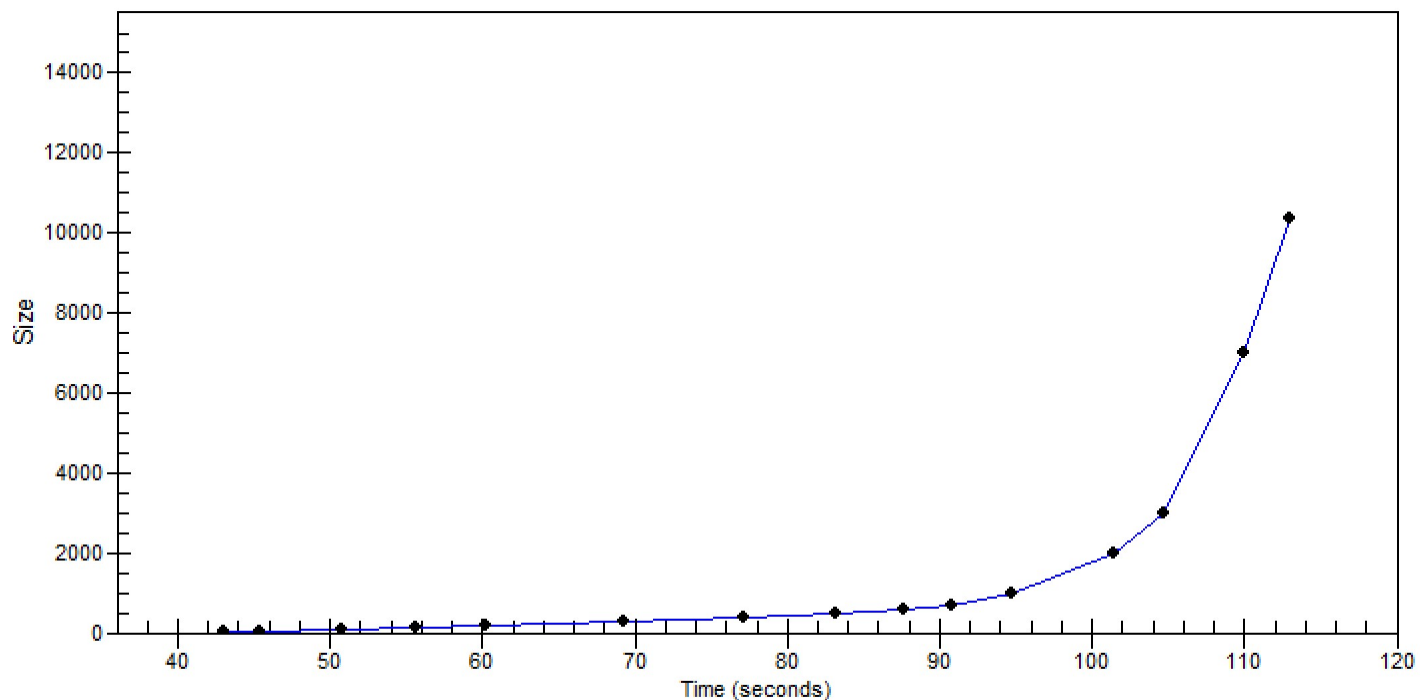


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
Modified: 7/18/2023 5:34:42 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad

Created: 7/18/2023 4:45:30 PM
 Modified: 7/18/2023 5:34:42 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		7/18/2023 5:26:51 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\2023-07-18\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-07-18_001.xad)		Instrument	Run		7/18/2023 4:45:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		7/18/2023 4:45:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		7/18/2023 4:45:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		7/18/2023 4:45:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		7/18/2023 4:45:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		7/18/2023 4:45:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		7/18/2023 4:45:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB