

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2100 expert\data\2025-08-29\Sonication_Testing_2. xad.xad

Created: 8/29/2025 4:02:02 PM
Modified: 8/29/2025 4:53:10 PM

Electrophoresis File Run Summary

Instrument Information:

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

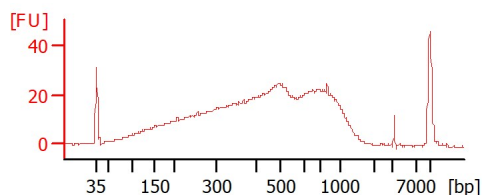
Assay Information:

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

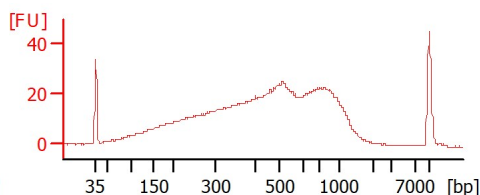
Chip Information:

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

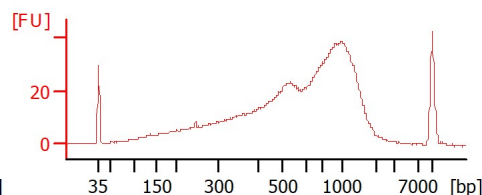
1_400 BP_55s



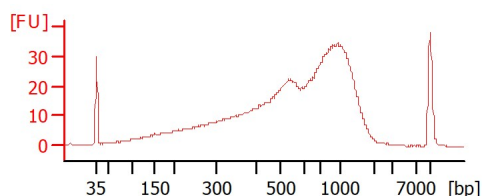
2_400 BP_55s



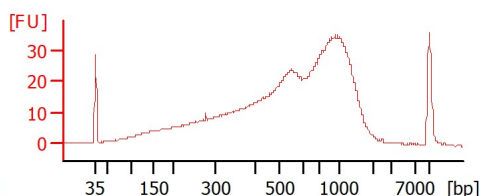
1_700 BP_25s



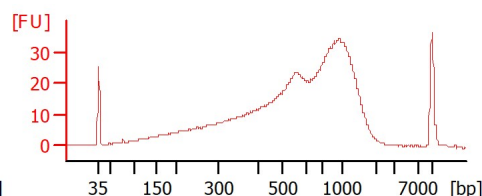
2_700 BP_25s



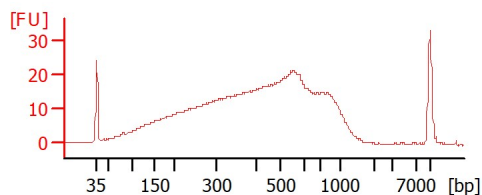
1_700 BP_PIP100_20s



2_700 BP_PIP100_20s



1_400 BP_PIP 100_50s



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1_400 BP_55s		☐	✓			
2_400 BP_55s		☐	✓			
1_700 BP_25s		☐	✓			
2_700 BP_25s		☐	✓			
1_700 BP_PIP100_20s		☐	✓			
2_700 BP_PIP100_20s		☐	✓			
1_400 BP_PIP 100_50s		☐	✓			
Ladder		☐	✓			

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

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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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

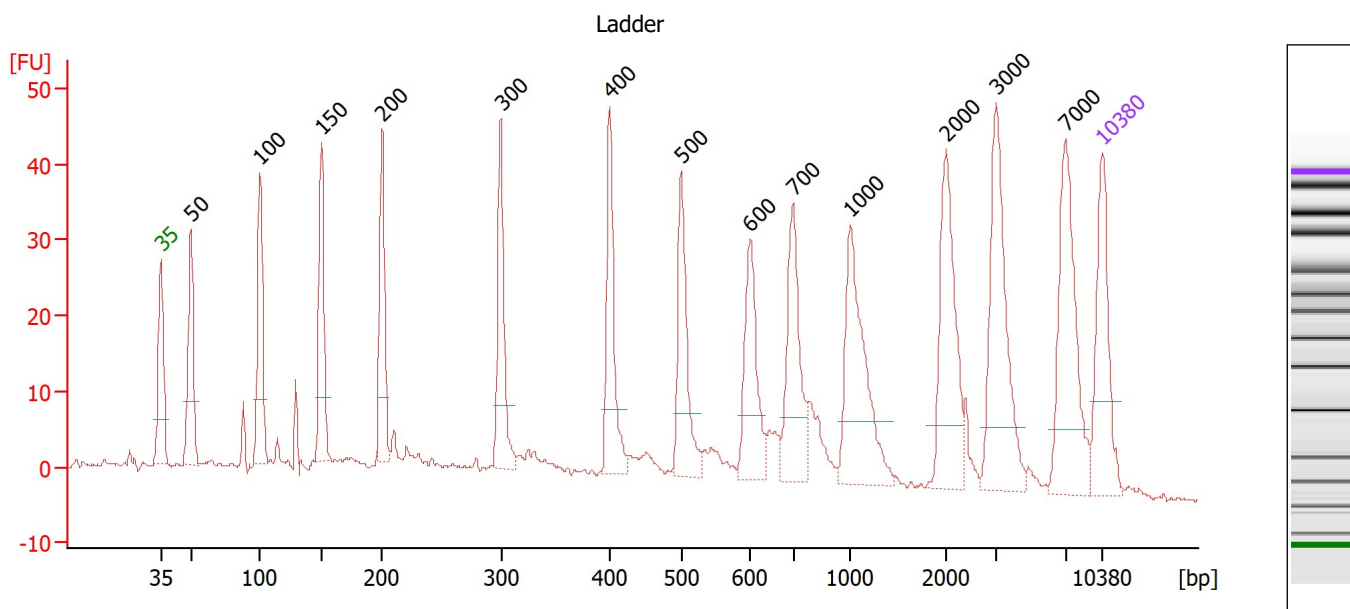
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

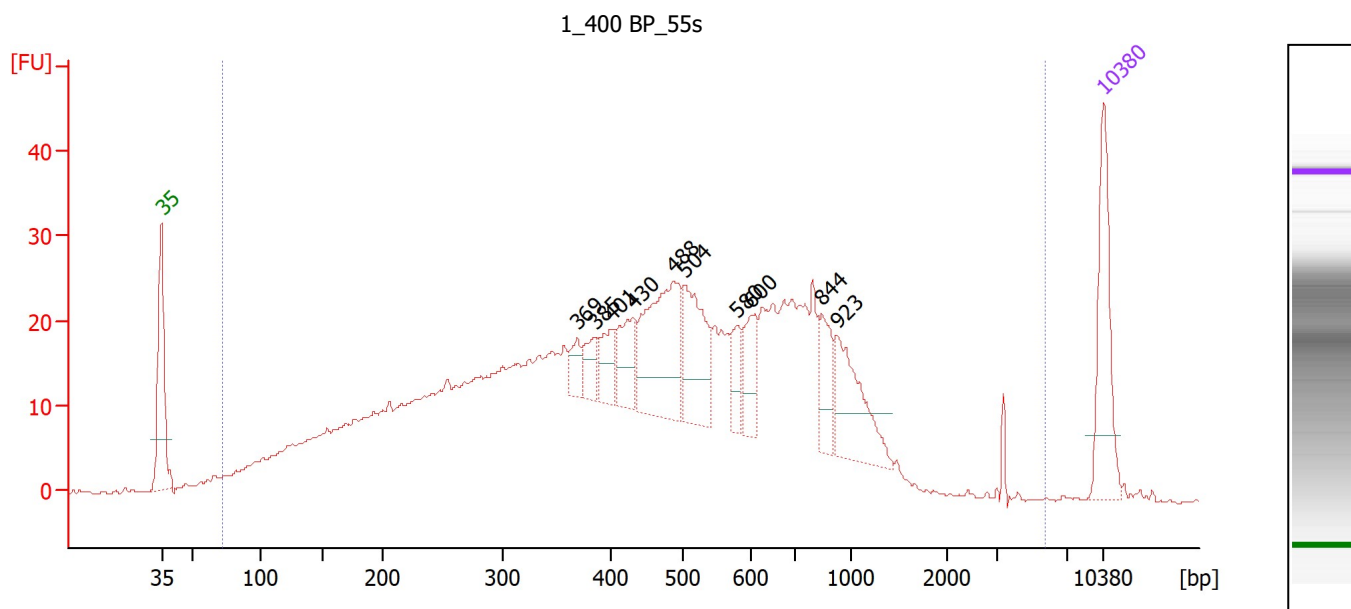
Peak table for Ladder

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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 1_400 BP_55s

Number of peaks found: 10 Corr. Area 1: 910.2
 Noise: 0.2

Peak table for sample 1 : 1_400 BP_55s

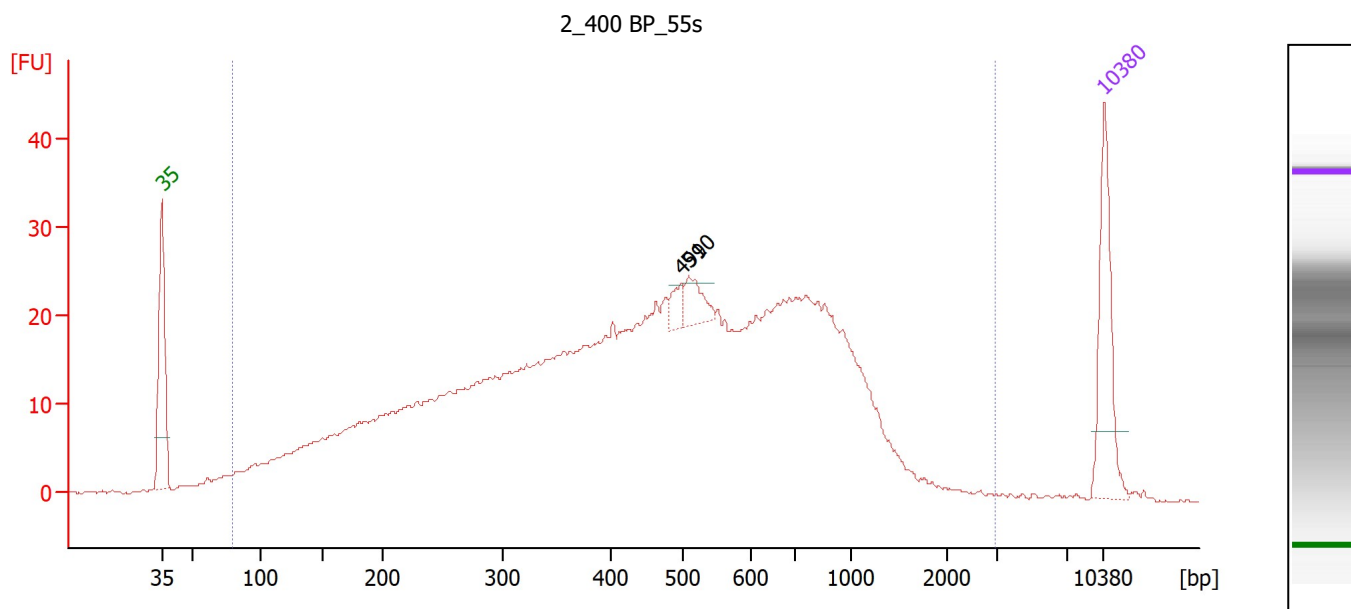
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	369	20.55	84.3	
3	385	23.88	93.9	
4	401	31.47	118.9	
5	430	47.21	166.2	
6	488	141.43	439.3	
7	504	90.39	271.5	
8	580	27.84	72.8	
9	600	37.12	93.7	
10	844	40.70	73.0	
11	923	79.42	130.4	
12	10,380	75.00	10.9	Upper Marker

Region table for sample 1 : 1_400 BP_55s

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
72	5,733	910.2	98	518	71.6	2,679.87	13,298.5	Blue

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Electropherogram Summary Continued ...**Overall Results for sample 2 : 2_400 BP_55s**

Number of peaks found: 2 Corr. Area 1: 862.1
Noise: 0.1

Peak table for sample 2 : 2_400 BP_55s

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	499	15.01	45.6	
3	510	27.10	80.6	
4	10,380	75.00	10.9	Upper Marker

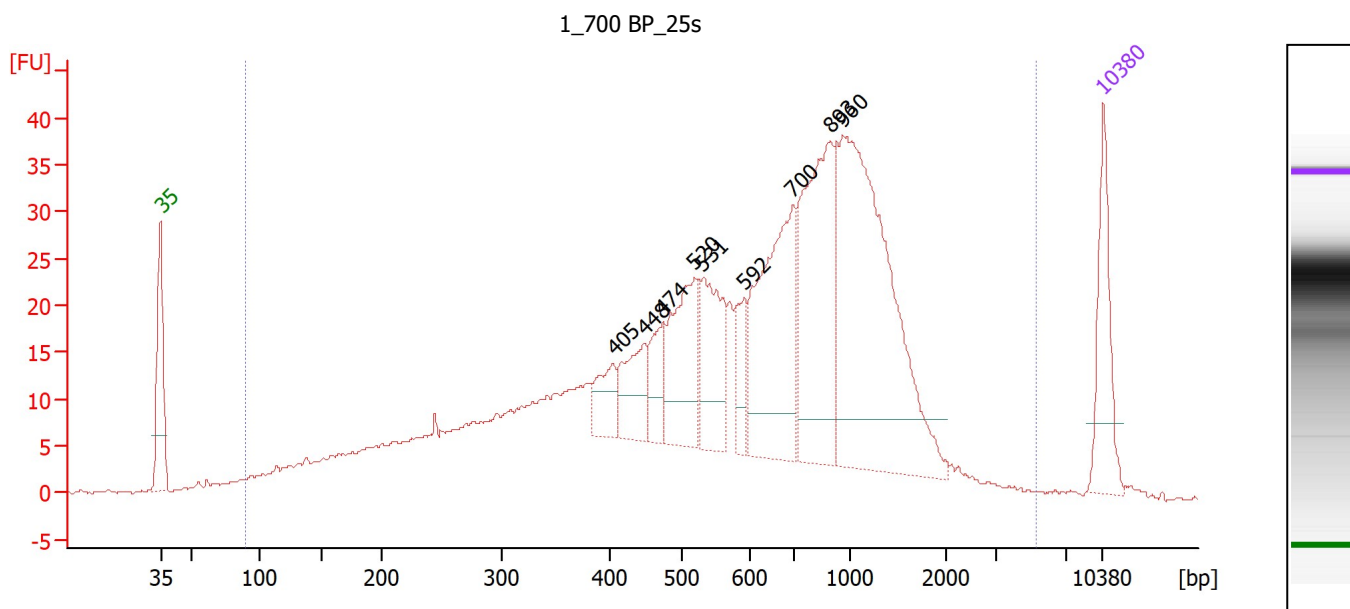
Region table for sample 2 : 2_400 BP_55s

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
79	2,976	862.1	98	525	61.1	2,610.13	12,471.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 1_700 BP_25s

Number of peaks found: 9 Corr. Area 1: 863.6
 Noise: 0.1

Peak table for sample 3 : 1_700 BP_25s

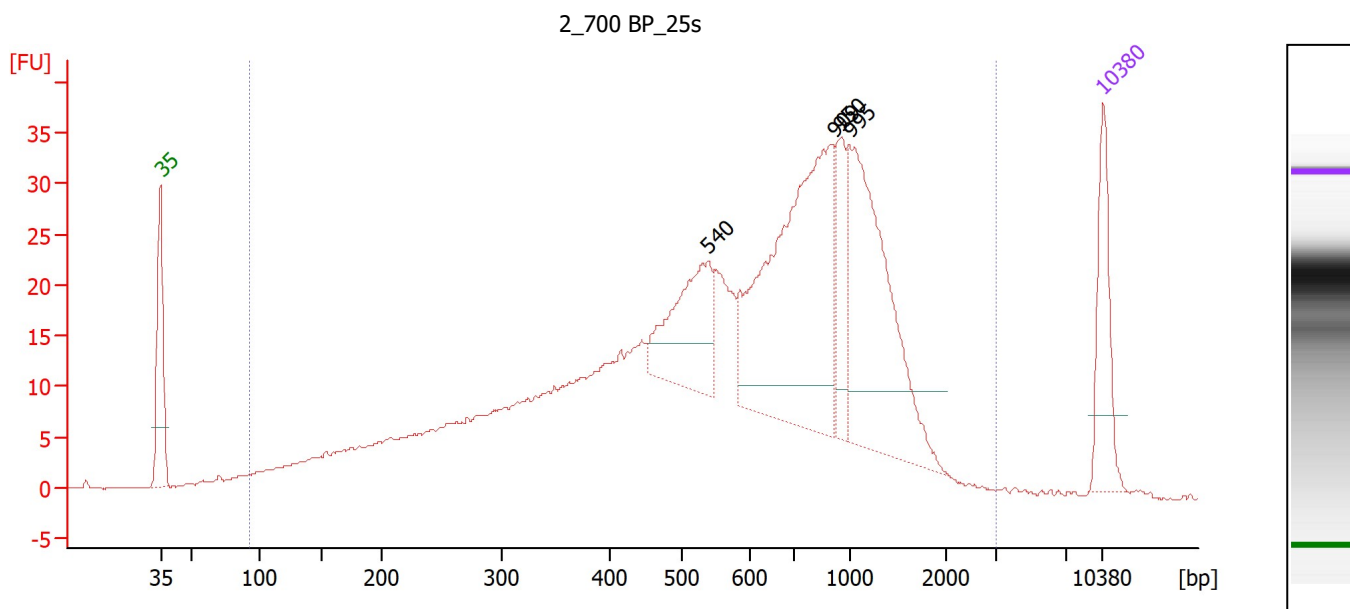
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	405	45.88	171.9	
3	448	69.69	235.7	
4	474	47.06	150.3	
5	520	130.43	380.3	
6	531	111.11	317.1	
7	592	40.30	103.2	
8	700	240.19	520.1	
9	893	242.16	411.1	
10	960	422.05	666.2	
11	10,380	75.00	10.9	Upper Marker

Region table for sample 3 : 1_700 BP_25s

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
90	5,304	863.6	98	732	65.5	2,597.36	9,552.9	Blue

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Electropherogram Summary Continued ...**Overall Results for sample 4 : 2_700 BP_25s**

Number of peaks found: 4 Corr. Area 1: 786.1
Noise: 0.1

Peak table for sample 4 : 2_700 BP_25s

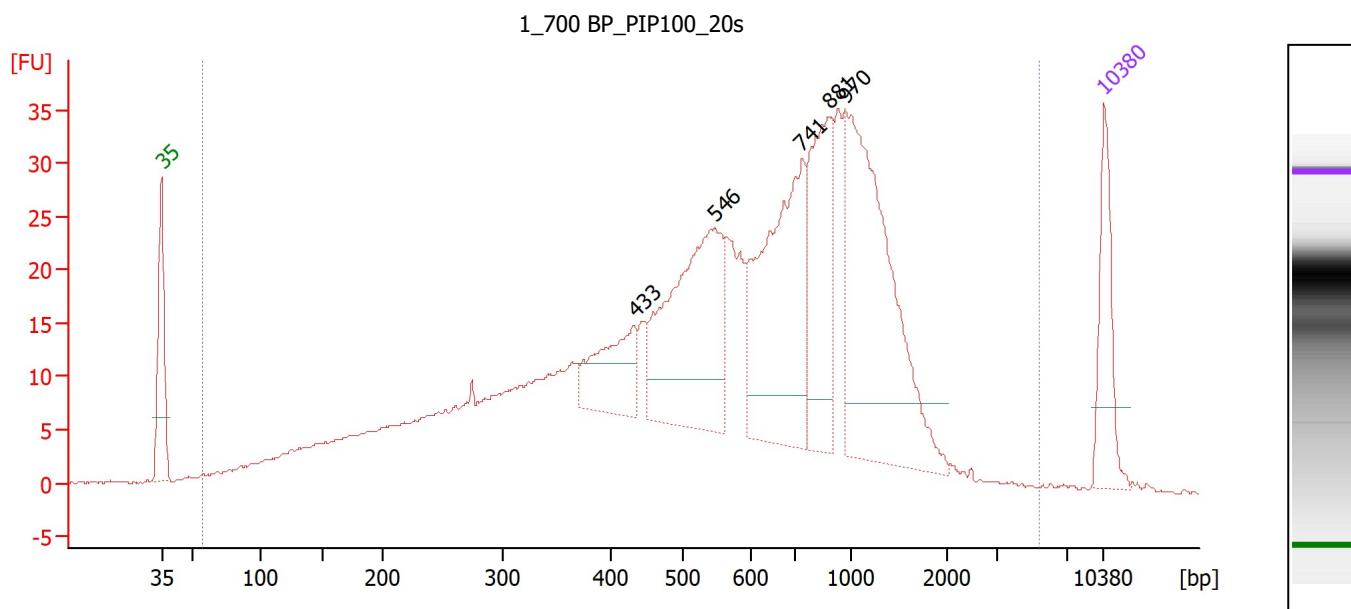
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	540	149.27	419.1	
3	909	392.32	654.3	
4	950	73.47	117.2	
5	995	271.87	413.9	
6	10,380	75.00	10.9	Upper Marker

Region table for sample 4 : 2_700 BP_25s

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
92	3,038	786.1	98	694	57.4	2,532.85	9,326.8	Blue

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Electropherogram Summary Continued ...**Overall Results for sample 5 : 1_700 BP_PIP100_20s**

Number of peaks found: 5 Corr. Area 1: 834.1
Noise: 0.1

Peak table for sample 5 : 1_700 BP_PIP100_20s

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	433	106.54	372.9	
3	546	304.05	843.7	
4	741	304.67	623.1	
5	881	178.54	307.0	
6	970	360.95	563.9	
7	10,380	75.00	10.9	Upper Marker

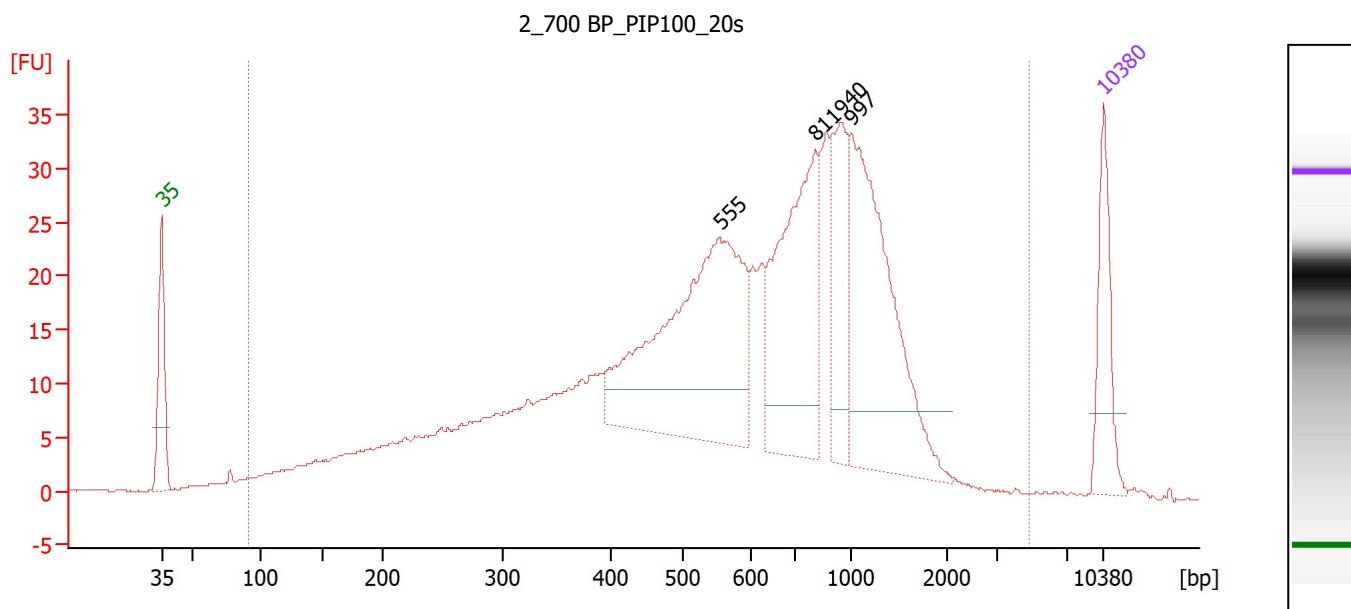
Region table for sample 5 : 1_700 BP_PIP100_20s

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
58	5,441	834.1	99	693	64.6	2,863.67	11,525.3	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 2_700 BP_PIP100_20s

Number of peaks found: 4 Corr. Area 1: 744.6
 Noise: 0.1

Peak table for sample 6 : 2_700 BP_PIP100_20s

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	555	460.20	1,257.1	
3	811	289.72	541.4	
4	940	112.06	180.7	
5	997	319.20	485.0	
6	10,380	75.00	10.9	Upper Marker

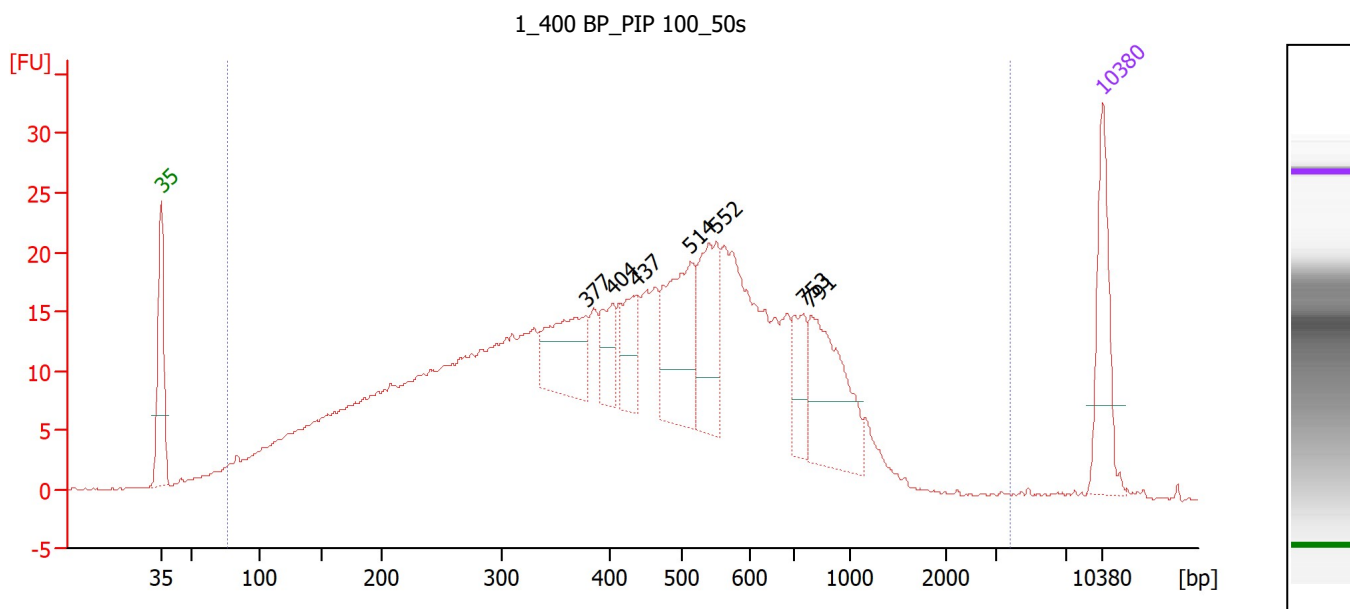
Region table for sample 6 : 2_700 BP_PIP100_20s

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
91	4,899	744.6	98	707	60.1	2,560.38	9,245.5	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 1_400 BP_PIP 100_50s

Number of peaks found: 7 Corr. Area 1: 702.5
 Noise: 0.1

Peak table for sample 7 : 1_400 BP_PIP 100_50s

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	377	99.31	398.9	
3	404	42.84	160.5	
4	437	53.89	186.9	
5	514	137.05	404.1	
6	552	106.53	292.7	
7	753	46.41	93.4	
8	791	131.70	252.1	
9	10,380	75.00	10.9	Upper Marker

Region table for sample 7 : 1_400 BP_PIP 100_50s

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
77	3,806	702.5	98	473	58.1	2,853.90	14,574.0	Blue

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Gel Image

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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		8/29/2025 4:43:21 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\2025-08-29\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2025-08-29_002.xad)		Instrument	Run		8/29/2025 4:02:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/29/2025 4:02:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/29/2025 4:02:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/29/2025 4:02:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/29/2025 4:02:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/29/2025 4:02:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/29/2025 4:02:08 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB