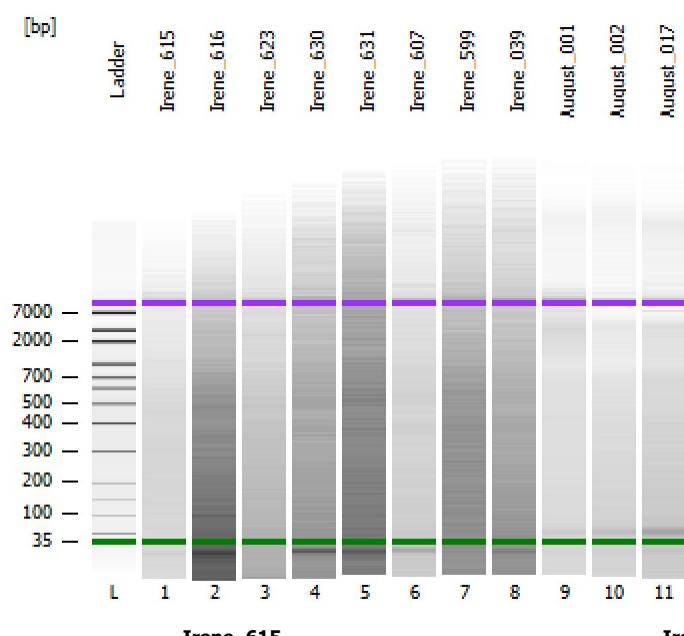


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
 Modified: 5/13/2025 2:48:52 PM

### Electrophoresis File Run Summary



#### Instrument Information:

Instrument Name: DE54107205  
 Serial#: DE54107205

Firmware: C.01.069  
 Type: G2939A

#### 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

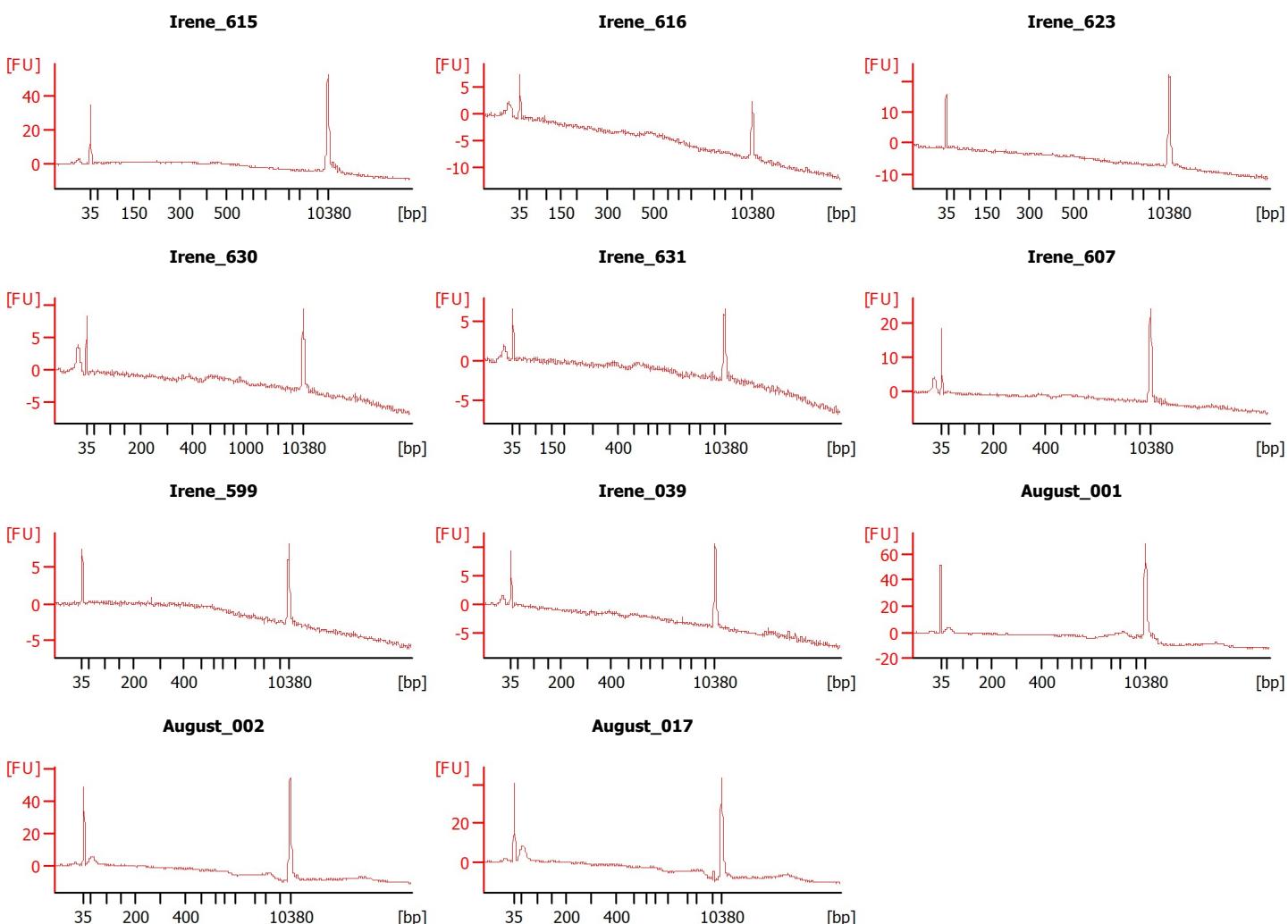
Assay Comments: Copyright © 2003-2010 Agilent Technologies

#### Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad  
Created: 5/13/2025 1:56:27 PM  
Modified: 5/13/2025 2:48:52 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comme nt	Rest. St t	Observation Digest us	Result Label	Result Color
Irene_615		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Irene_616		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Irene_623		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Irene_630		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Irene_631		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Irene_607		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Irene_599		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Irene_039		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
August_001		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
August_002		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
August_017		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Ladder		<input type="checkbox"/>	<input checked="" type="checkbox"/>		

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

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
Modified: 5/13/2025 2:48:52 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

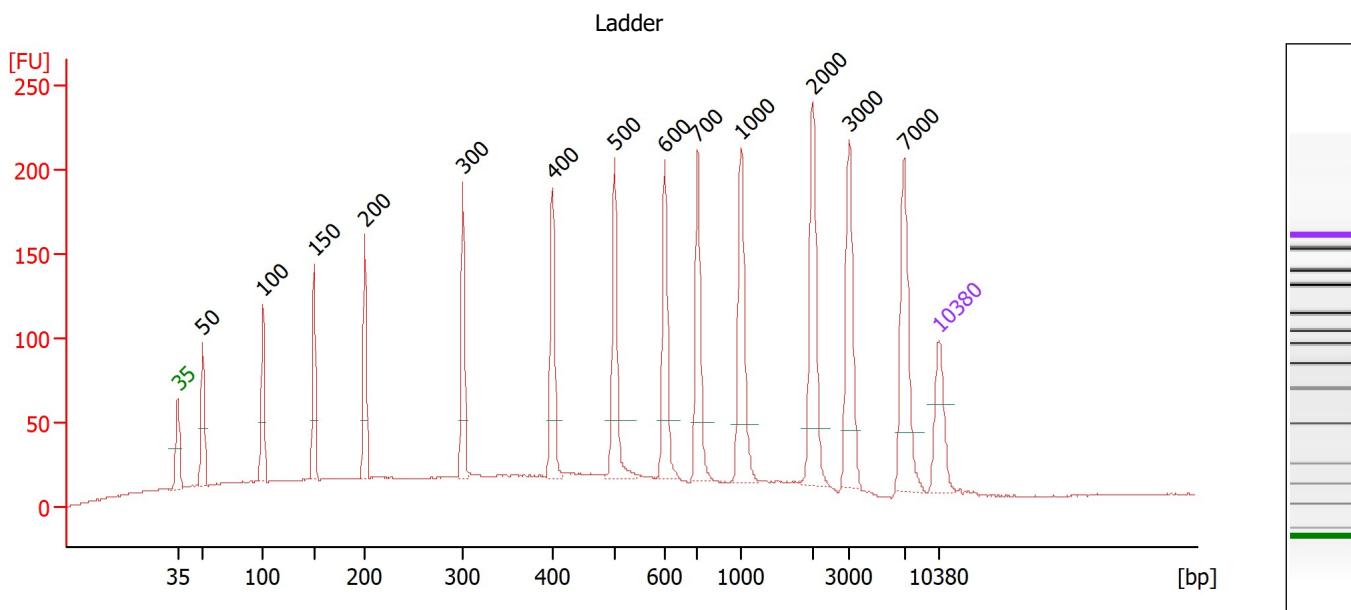
#### Ladder

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:\...\gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
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### Electropherogram Summary



### Overall Results for Ladder

Noise: 0.4

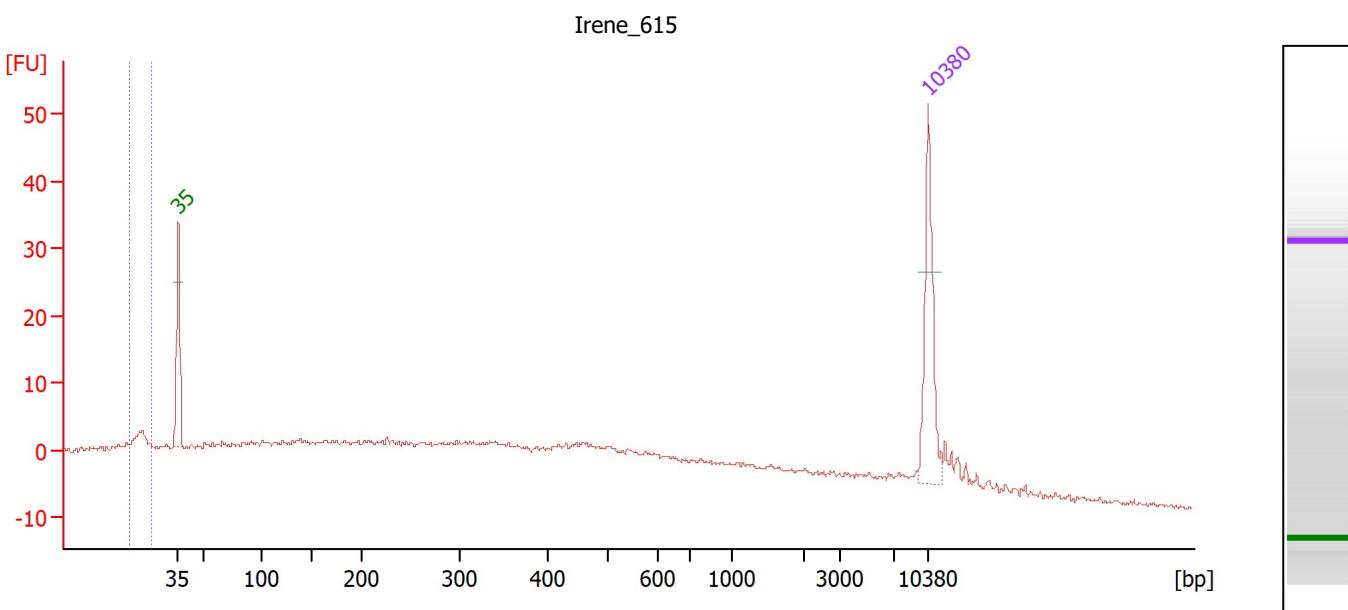
### Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Observations	Molarity [pmol/l]
1	35	125.00	Lower Marker	5,411.3
2	50	150.00	Ladder Peak	4,545.5
3	100	150.00	Ladder Peak	2,272.7
4	150	150.00	Ladder Peak	1,515.2
5	200	150.00	Ladder Peak	1,136.4
6	300	150.00	Ladder Peak	757.6
7	400	150.00	Ladder Peak	568.2
8	500	150.00	Ladder Peak	454.5
9	600	150.00	Ladder Peak	378.8
10	700	150.00	Ladder Peak	324.7
11	1,000	150.00	Ladder Peak	227.3
12	2,000	150.00	Ladder Peak	113.6
13	3,000	150.00	Ladder Peak	75.8
14	7,000	150.00	Ladder Peak	32.5
15	10,380	75.00	Upper Marker	10.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
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### Electropherogram Summary Continued ...



### Overall Results for sample 1 : Irene\_615

Number of peaks found:	0	Corr. Area 1:	13.5
Noise:	0.4		

### Peak table for sample 1 : Irene\_615

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

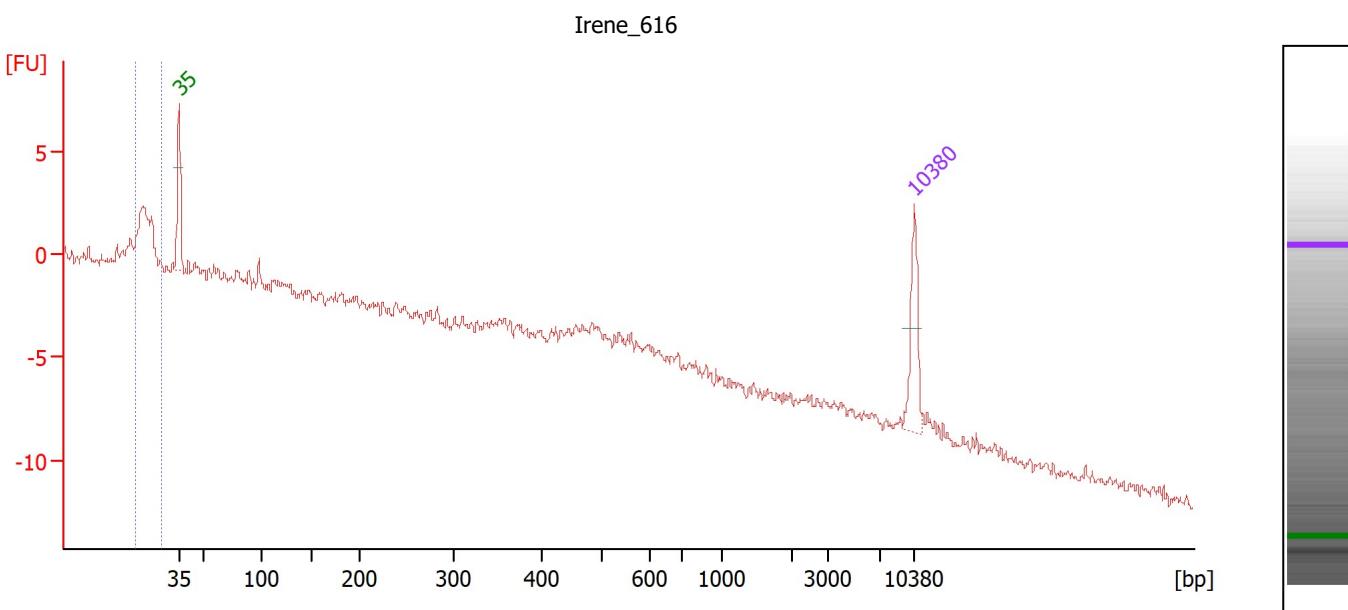
### Region table for sample 1 : Irene\_615

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
5	19	13.5	12	4	29.8	62.07	7,808.3	Dark Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
 Modified: 5/13/2025 2:48:52 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 2 : Irene\_616

Number of peaks found:	0	Corr. Area 1:	13.4
Noise:	0.4		

### Peak table for sample 2 : Irene\_616

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

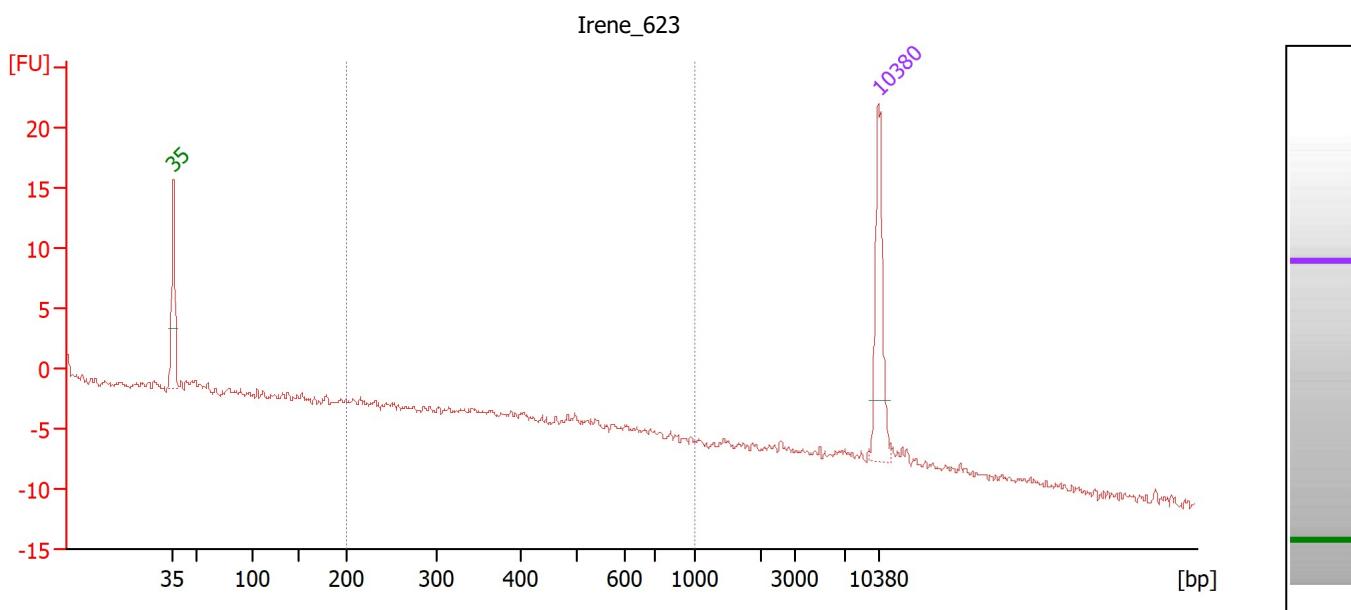
### Region table for sample 2 : Irene\_616

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
8	24	13.4	15	12	27.0	348.26	36,349.6	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
 Modified: 5/13/2025 2:48:52 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 3 : Irene\_623

Number of peaks found:	0	Corr. Area 1:	36.5
Noise:	0.4		

### Peak table for sample 3 : Irene\_623

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

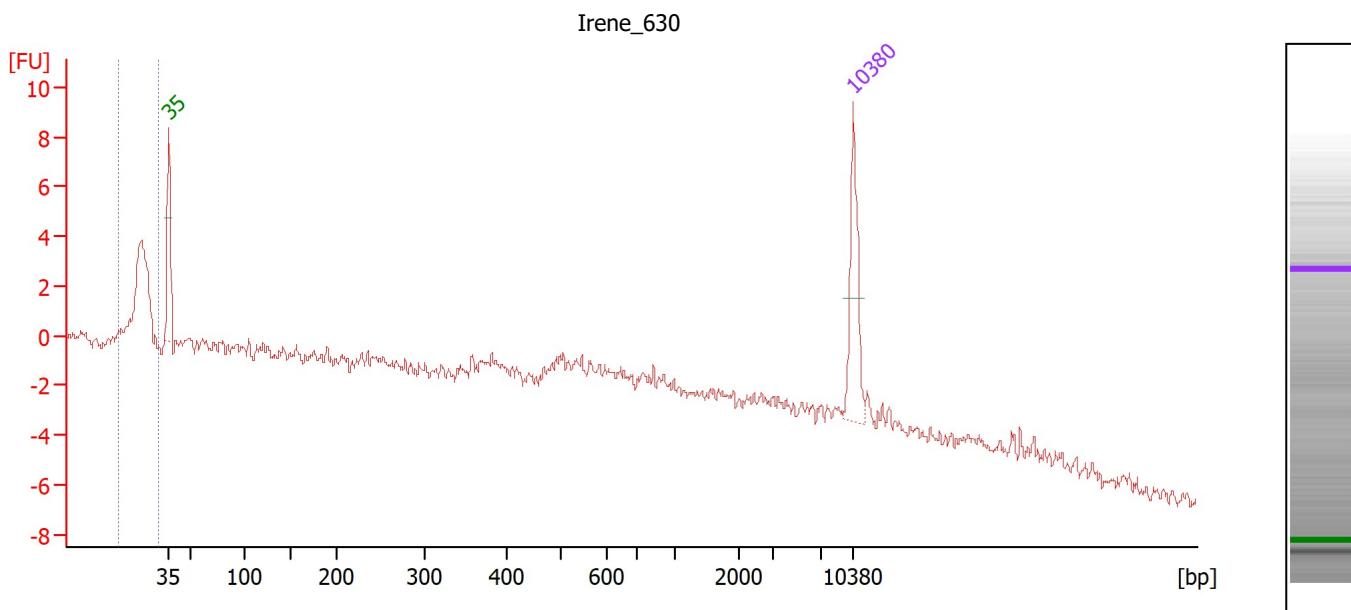
### Region table for sample 3 : Irene\_623

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,000	36.5	469	50	38.0	181.99	722.1	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
 Modified: 5/13/2025 2:48:52 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 4 : Irene\_630

Number of peaks found:	0	Corr. Area 1:	16.2
Noise:	0.3		

### Peak table for sample 4 : Irene\_630

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

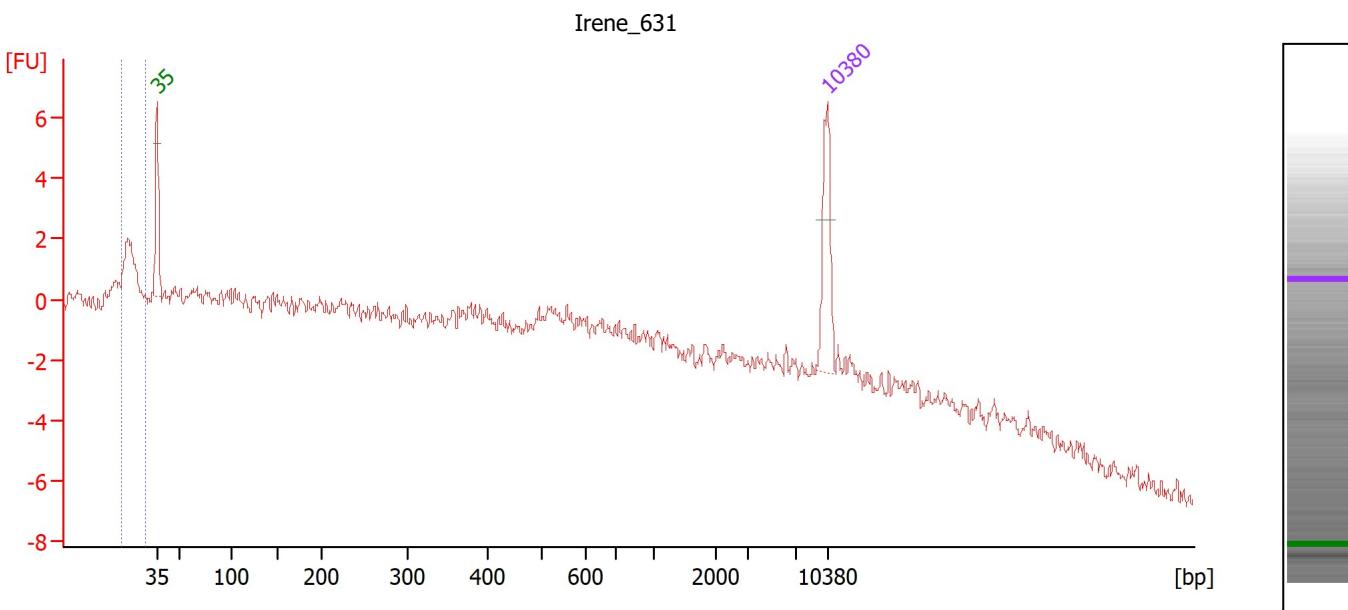
### Region table for sample 4 : Irene\_630

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
1	29	16.2	16	13	30.7	313.10	29,586.8	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
 Modified: 5/13/2025 2:48:52 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 5 : Irene\_631

Number of peaks found:	0	Corr. Area 1:	8.0
Noise:	0.4		

### Peak table for sample 5 : Irene\_631

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

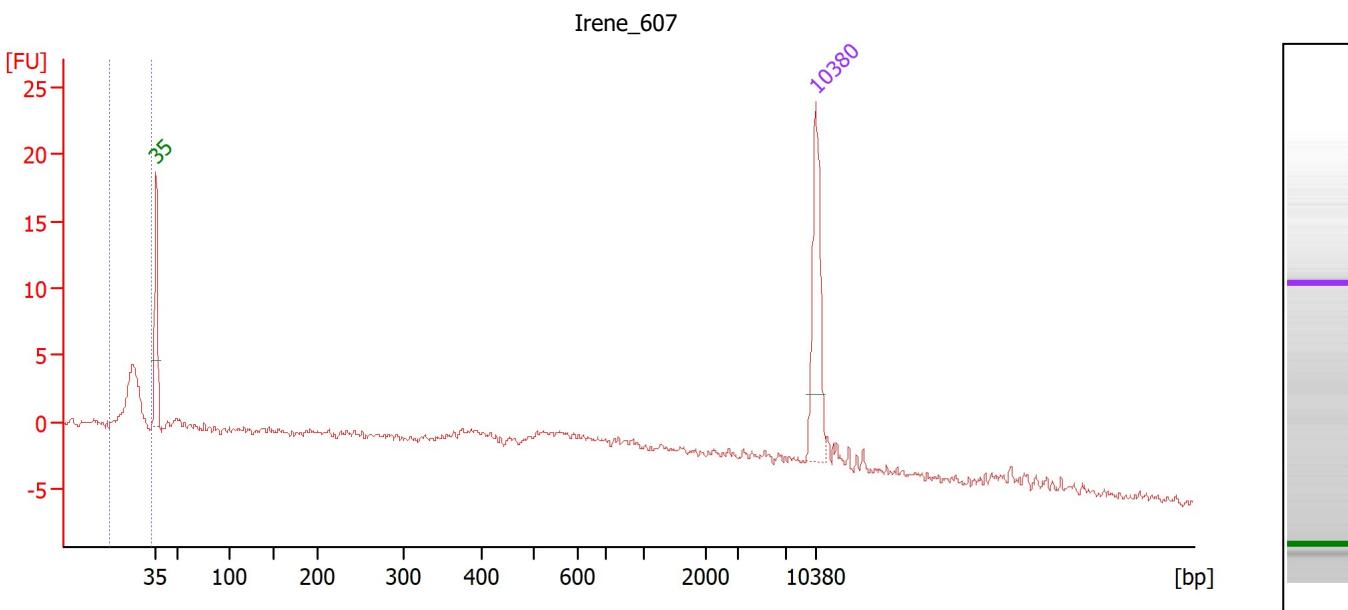
### Region table for sample 5 : Irene\_631

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
10	26	8.0	17	4	23.0	211.13	19,062.1	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
 Modified: 5/13/2025 2:48:52 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 6 : Irene\_607

Number of peaks found:	0	Corr. Area 1:	14.8
Noise:	0.3		

### Peak table for sample 6 : Irene\_607

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

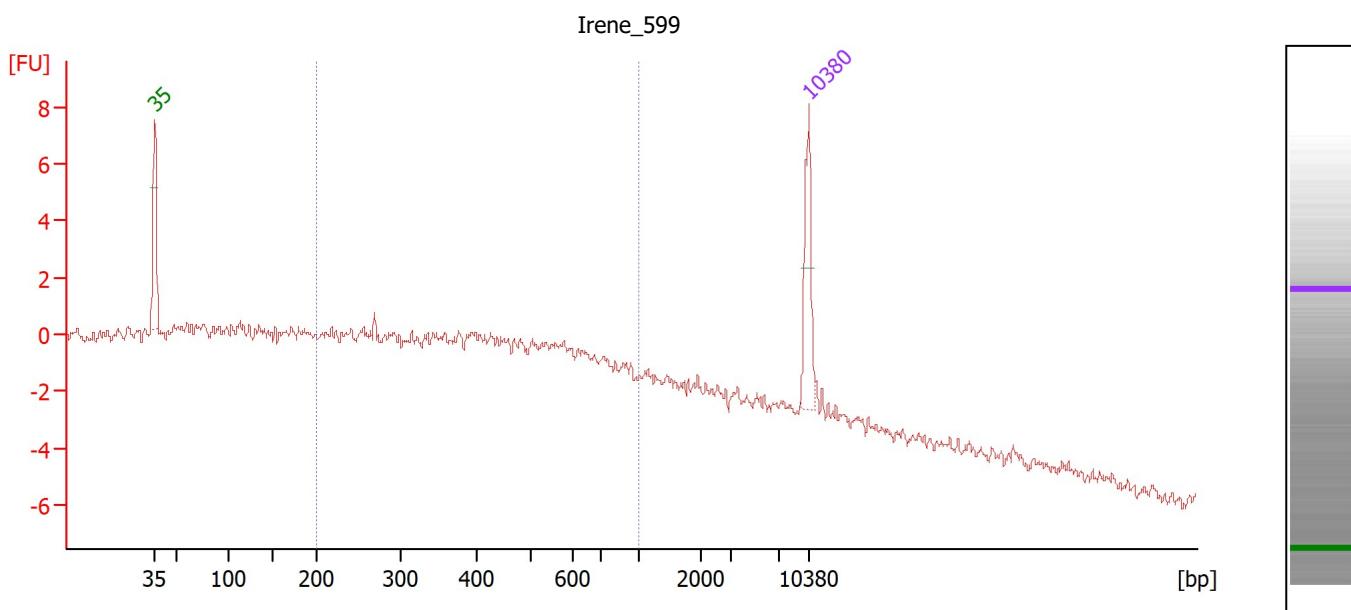
### Region table for sample 6 : Irene\_607

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
3	32	14.8	19	15	21.8	120.76	9,830.7	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
 Modified: 5/13/2025 2:48:52 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 7 : Irene\_599

Number of peaks found:	0	Corr. Area 1:	70.3
Noise:	0.2		

### Peak table for sample 7 : Irene\_599

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

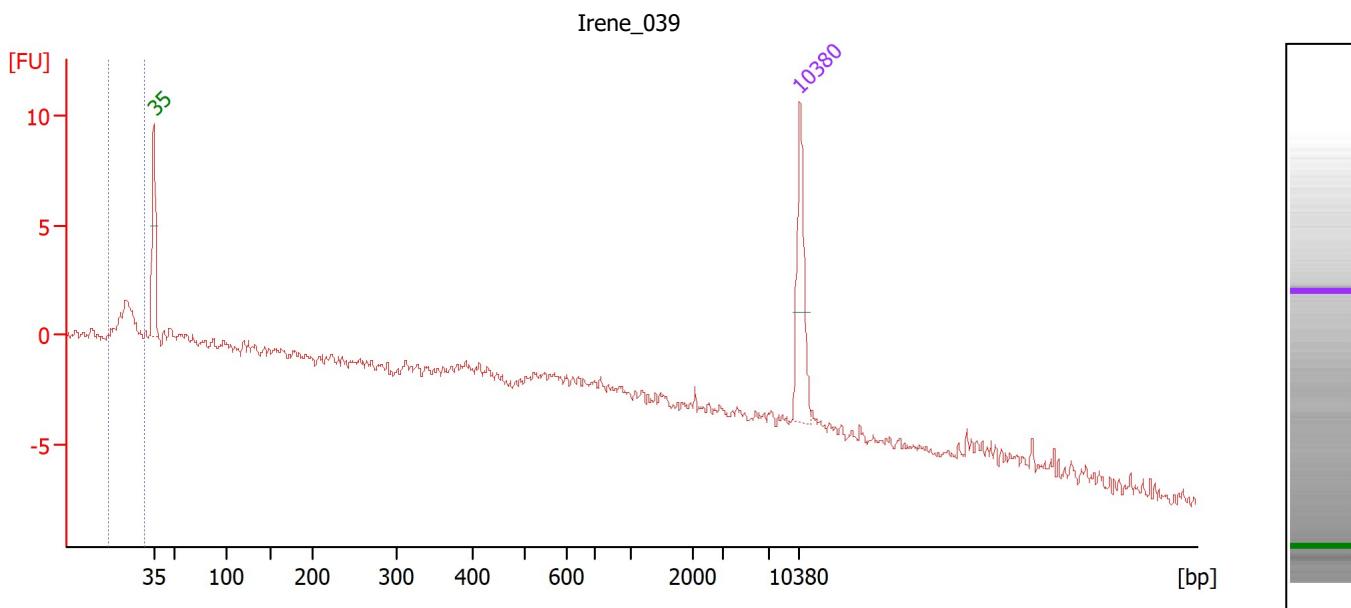
### Region table for sample 7 : Irene\_599

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,000	70.3	462	54	40.1	1,067.54	4,373.2	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
 Modified: 5/13/2025 2:48:52 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 8 : Irene\_039

Number of peaks found:	0	Corr. Area 1:	6.8
Noise:	0.3		

### Peak table for sample 8 : Irene\_039

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

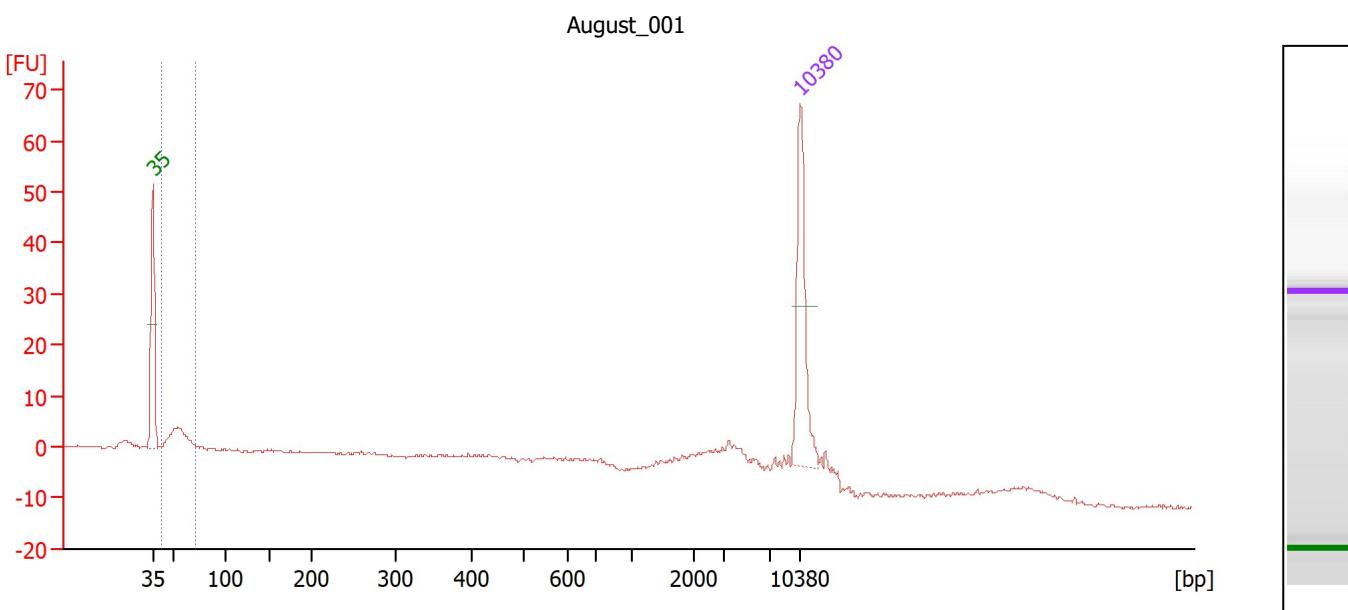
### Region table for sample 8 : Irene\_039

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
3	28	6.8	16	8	30.2	114.62	10,837.9	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
 Modified: 5/13/2025 2:48:52 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 9 : August\_001

Number of peaks found:	0	Corr. Area 1:	23.2
Noise:	0.3		

### Peak table for sample 9 : August\_001

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

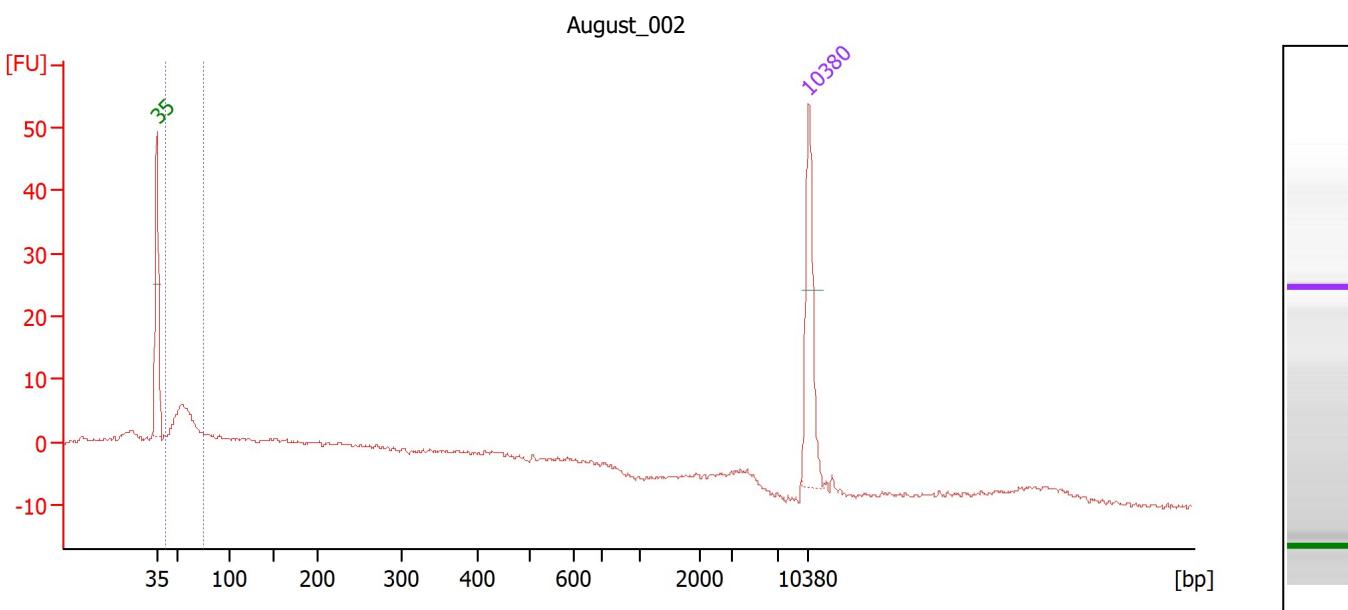
### Region table for sample 9 : August\_001

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
42	70	23.2	54	9	13.0	56.22	1,586.2	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
 Modified: 5/13/2025 2:48:52 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 10 : August\_002

Number of peaks found:	0	Corr. Area 1:	36.7
Noise:	0.3		

### Peak table for sample 10 : August\_002

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

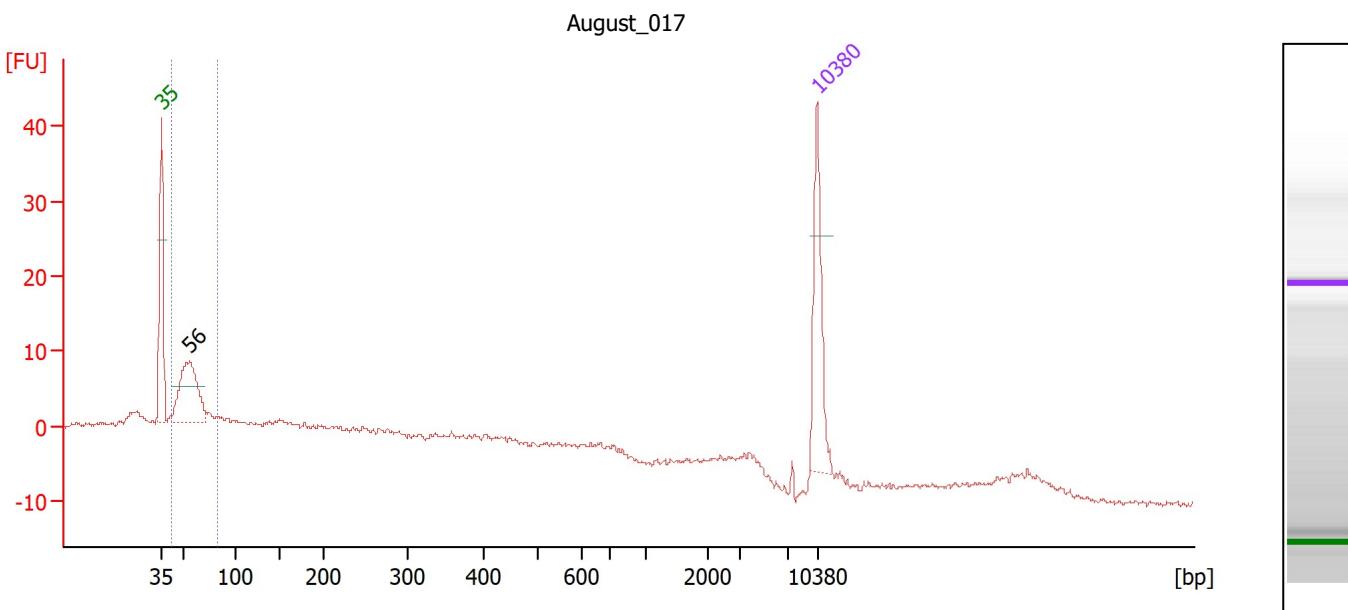
### Region table for sample 10 : August\_002

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
41	74	36.7	56	19	14.7	116.25	3,181.3	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
 Modified: 5/13/2025 2:48:52 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 11 : August\_017

Number of peaks found:	1	Corr. Area 1:	54.0
Noise:	0.4		

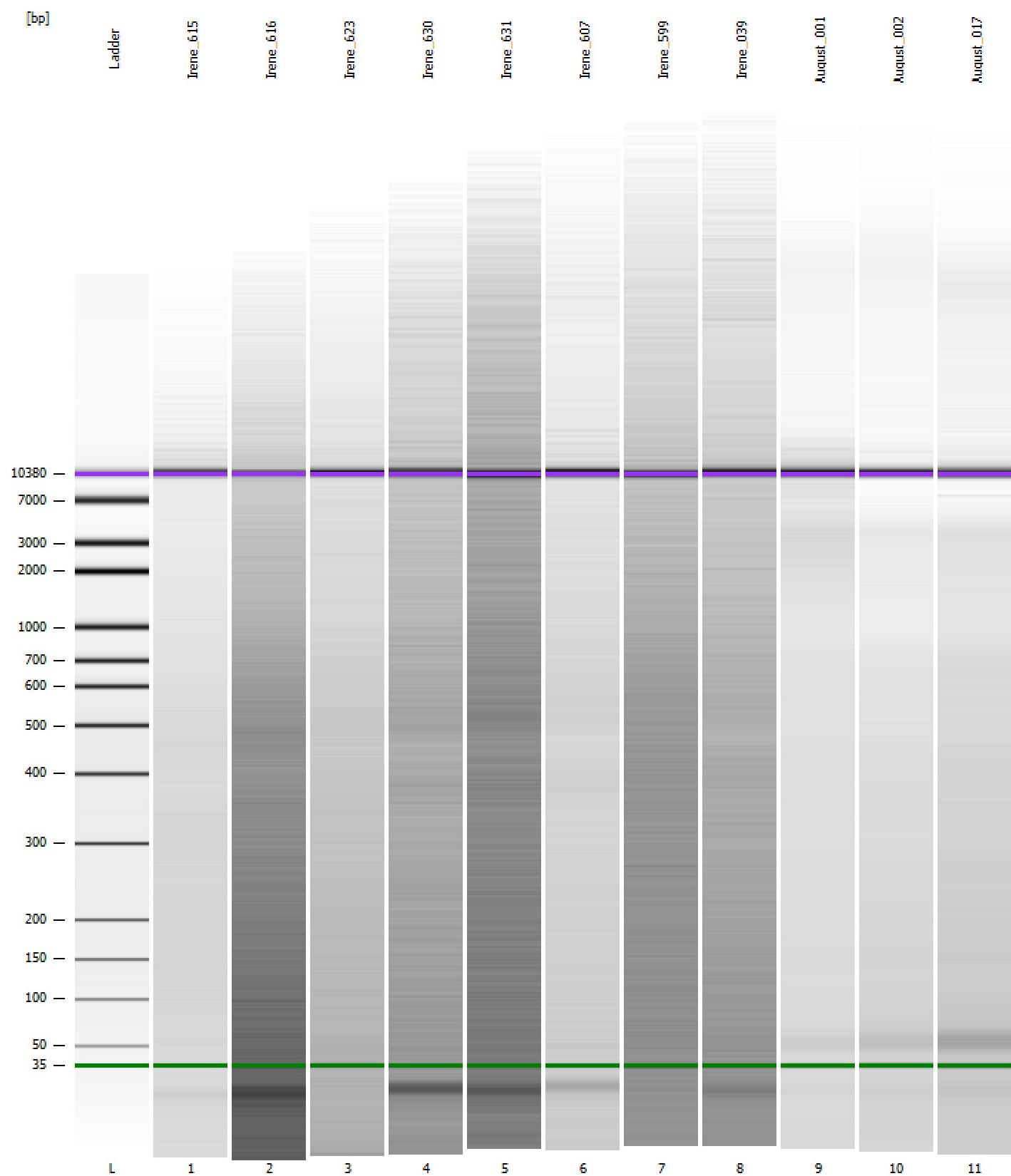
### Peak table for sample 11 : August\_017

Peak	Size [bp]	Conc. [pg/µl]	Observations	Molarity [pmol/l]
1	35	125.00	Lower Marker	5,411.3
2	56	142.81		3,830.7
3	10,380	75.00	Upper Marker	10.9

### Region table for sample 11 : August\_017

From [bp]	To [bp]	Corr. Area	Average Size [bp]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
42	83	54.0	58	22	16.8	205.22	5,433.7	■

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad  
Created: 5/13/2025 1:56:27 PM  
Modified: 5/13/2025 2:48:52 PM

**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\gh Sensitivity DNA Assay\_DE54107205\_2025-05-13\_13-56-28.xad

Created: 5/13/2025 1:56:27 PM  
Modified: 5/13/2025 2:48:52 PM

## Curves

### Standard Curve

