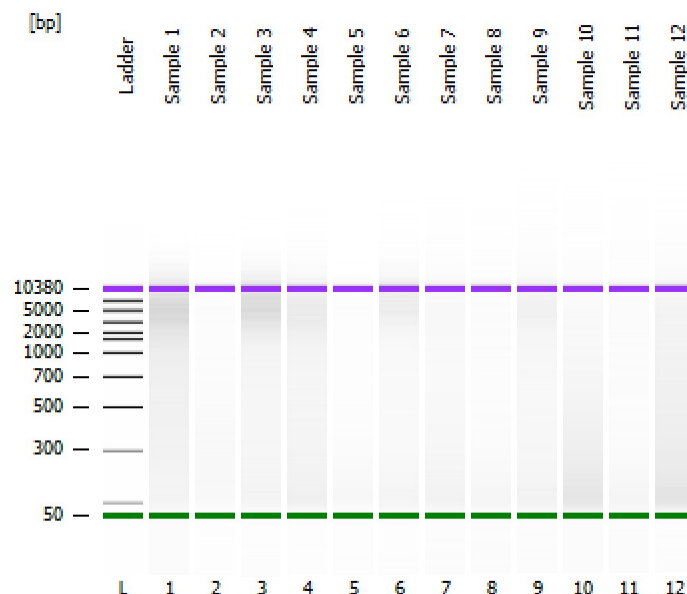


Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: 4170_bioanalyzer
Serial#: DE13804176
Firmware: C.01.069
Type: G2939A

Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 7500 Series II.xsy

Assay Class: DNA 7500

Version: 2.3

Assay Comments: DNA Analysis 100 -7500 bp

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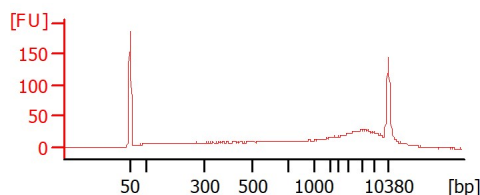
Chip Information:

Chip Lot #:

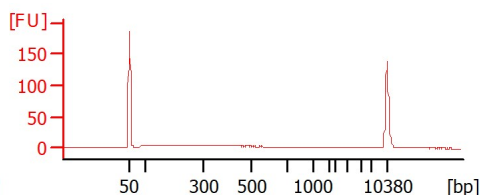
Reagent Kit Lot #:

Chip Comments:

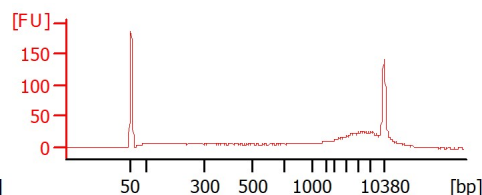
Sample 1



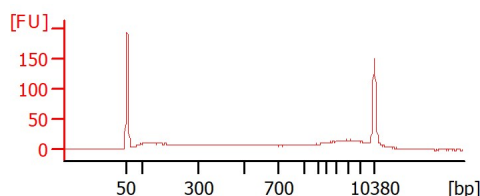
Sample 2



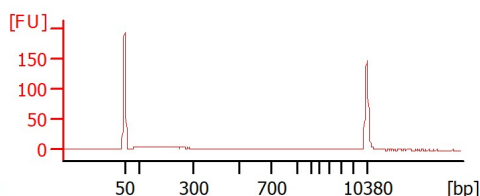
Sample 3



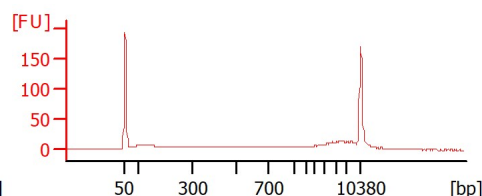
Sample 4



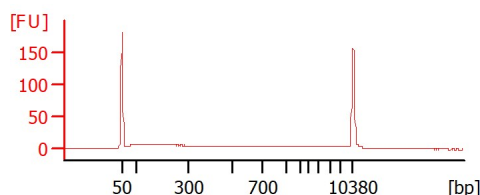
Sample 5



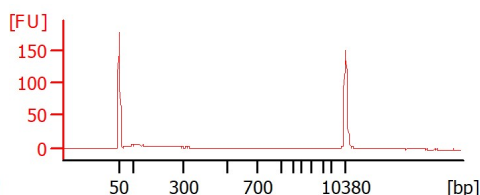
Sample 6



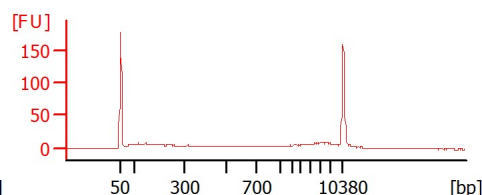
Sample 7



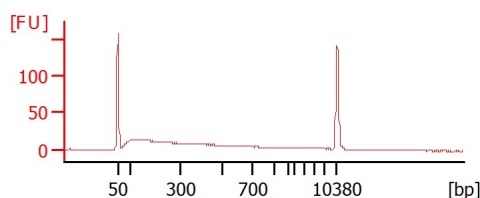
Sample 8



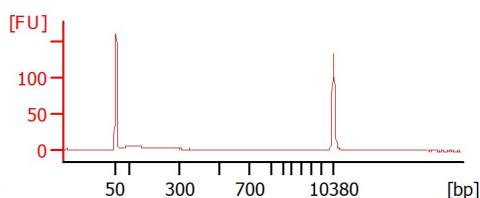
Sample 9



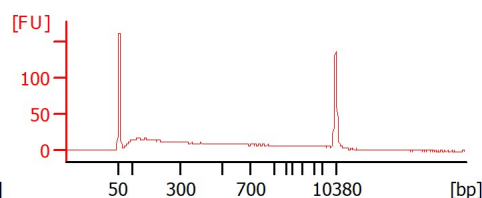
Sample 10



Sample 11



Sample 12



Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Sample 1		<input type="checkbox"/>	✓			
Sample 2		<input type="checkbox"/>	✓			
Sample 3		<input type="checkbox"/>	✓			
Sample 4		<input type="checkbox"/>	✓			
Sample 5		<input type="checkbox"/>	✓			
Sample 6		<input type="checkbox"/>	✓			
Sample 7		<input type="checkbox"/>	✓			
Sample 8		<input type="checkbox"/>	✓			
Sample 9		<input type="checkbox"/>	✓			
Sample 10		<input type="checkbox"/>	✓			
Sample 11		<input type="checkbox"/>	✓			
Sample 12		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 20
Maximum Visible Range [s] : 94
Start Analysis Time Range [s] : 20
End Analysis Time Range [s] : 93.95
Ladder Concentration [ng/μl] : 40
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [ng/μl] : 8.3
Upper Marker Concentration [ng/μl] : 4.2
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] : 20
Integration End Time [s] : 93.95
Slope Threshold : 0.8
Height Threshold [FU] : 20
Area Threshold : 0.1
Width Threshold [s] : 0.5
Baseline Plateau [s] : 0.5

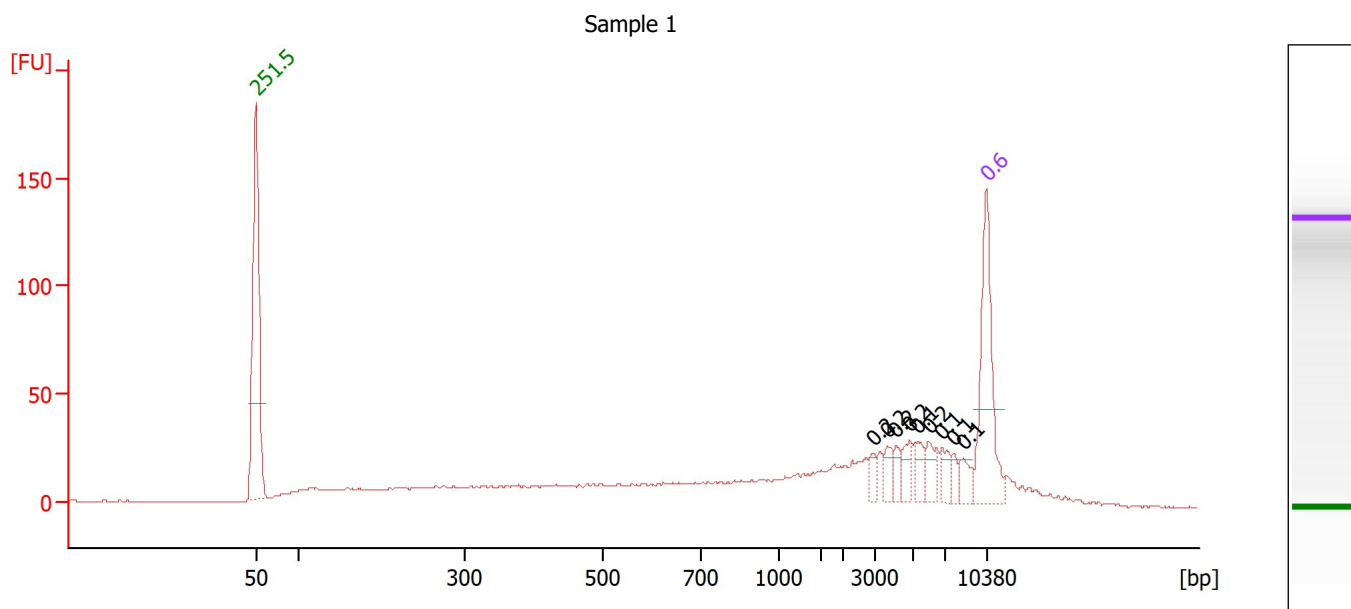
Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4



Ladder

Ladder Peak	Size	Area
1	50	120
2	100	47
3	300	63
4	500	81
5	700	85
6	1000	93
7	1500	101
8	2000	101
9	3000	106
10	5000	108
11	7000	109
12	10380	107

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

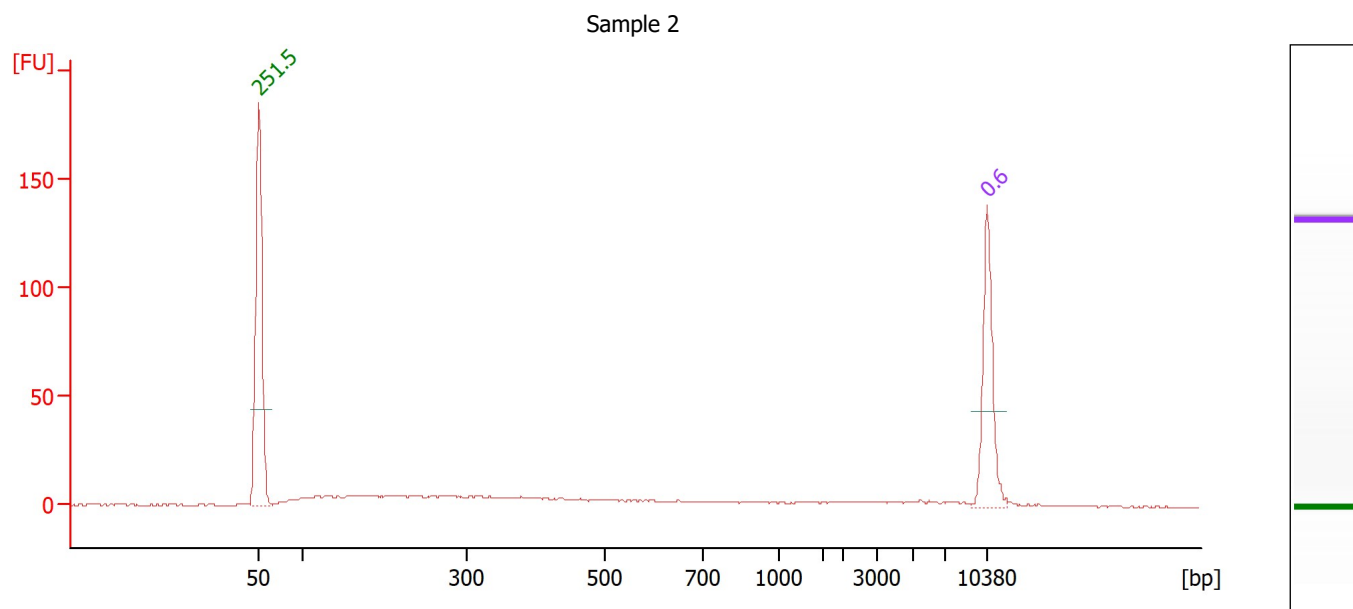


Number of peaks found: 9

Peak		Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1		50	8.30	251.5	Lower Marker
2		2,911	0.34	0.2	
3		3,633	0.47	0.2	
4		4,094	0.44	0.2	
5		4,849	0.59	0.2	
6		5,354	0.51	0.1	
7		6,073	0.66	0.2	
8		6,840	0.49	0.1	
9		7,768	0.33	0.1	
10		8,497	0.52	0.1	
11		10,380	4.20	0.6	Upper Marker

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

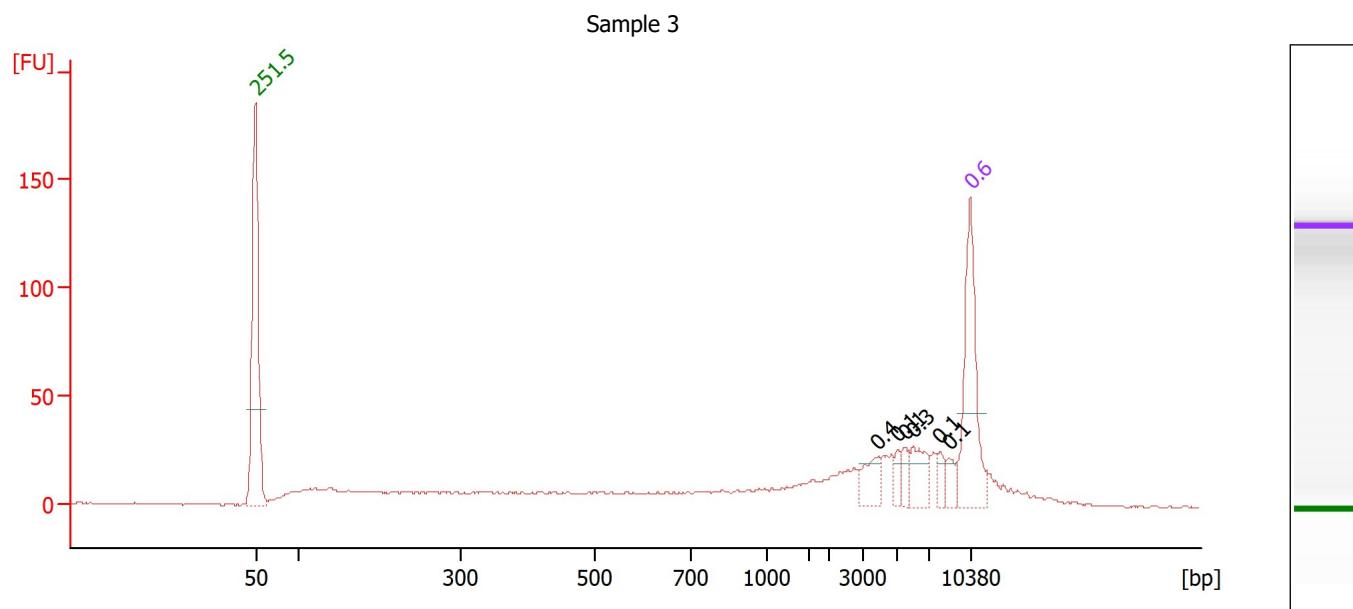
Electropherogram Summary Continued ...**Overall Results for sample 2 : Sample 2**



Number of peaks found: 0

Peak table for sample 2 : Sample 2

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,380	4.20	0.6	Upper Marker

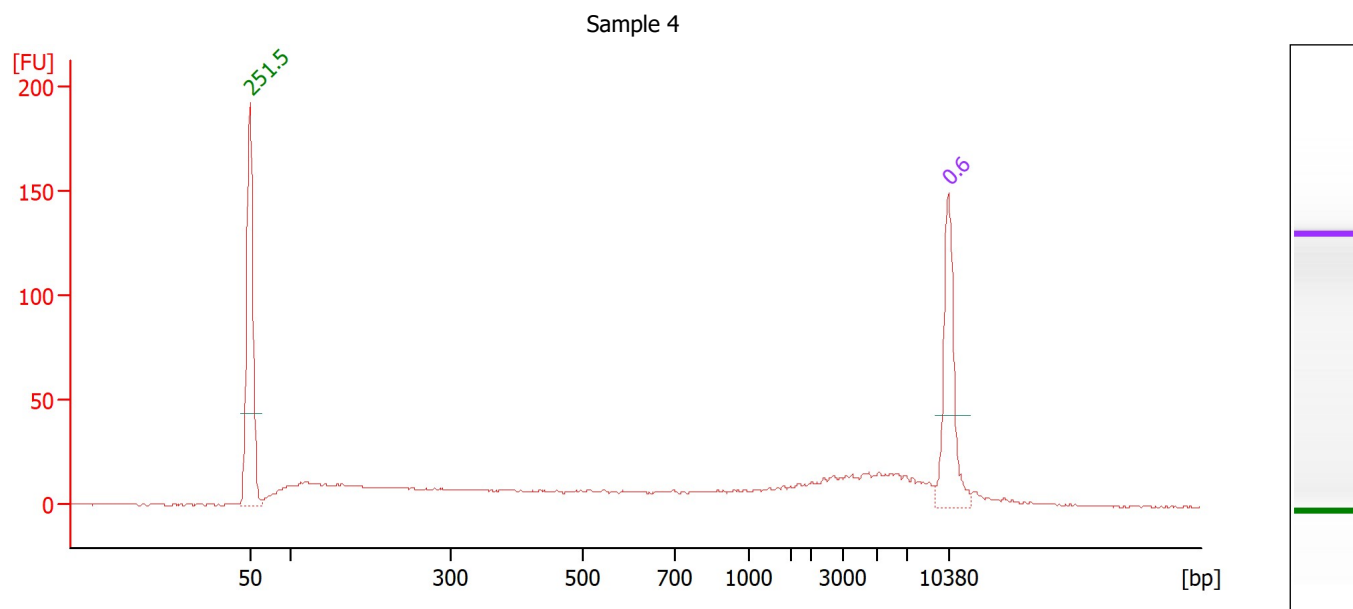
Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM



Peak		Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1		50	8.30	251.5	Lower Marker
2		3,853	0.92	0.4	
3		5,012	0.43	0.1	
4		5,453	0.42	0.1	
5		5,992	1.06	0.3	
6		7,896	0.50	0.1	
7		8,641	0.49	0.1	
8		10,380	4.20	0.6	Upper Marker

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Electropherogram Summary Continued ...**Overall Results for sample 4 : Sample 4**

Number of peaks found: 0

Peak table for sample 4 : Sample 4

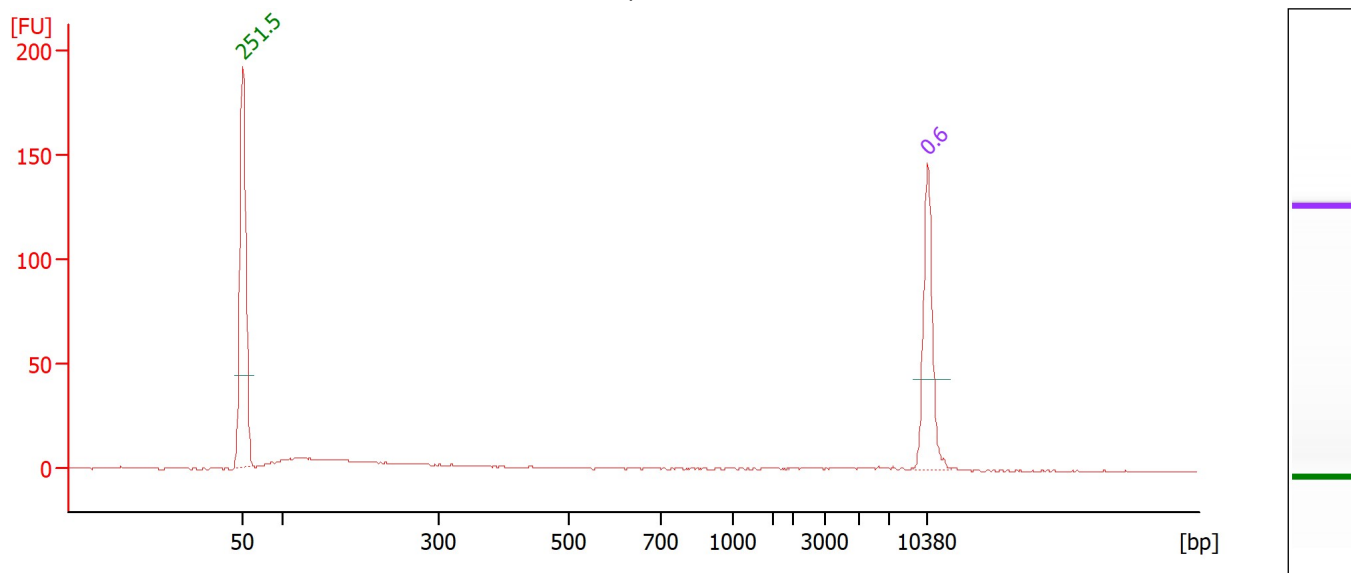
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,380	4.20	0.6	Upper Marker

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Electropherogram Summary Continued ...

Sample 5

**Overall Results for sample 5 : Sample 5**

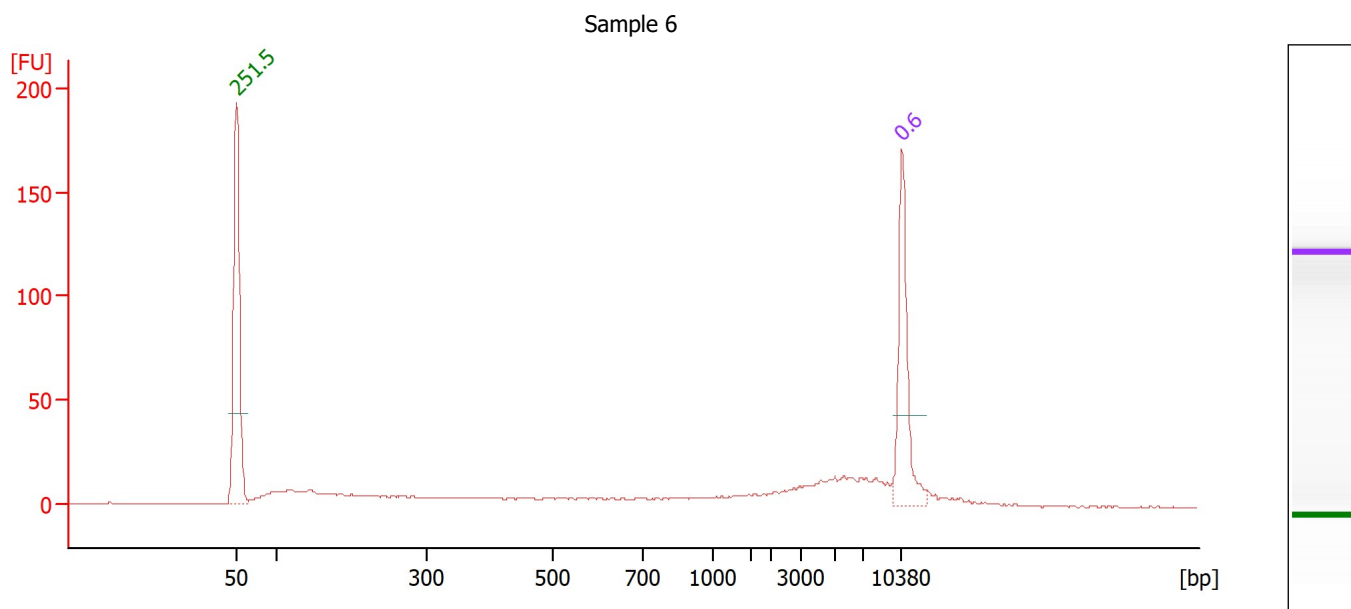
Number of peaks found: 0

Peak table for sample 5 : Sample 5

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,380	4.20	0.6	Upper Marker

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Electropherogram Summary Continued ...**Overall Results for sample 6 : Sample 6**

Number of peaks found: 0

Peak table for sample 6 : Sample 6

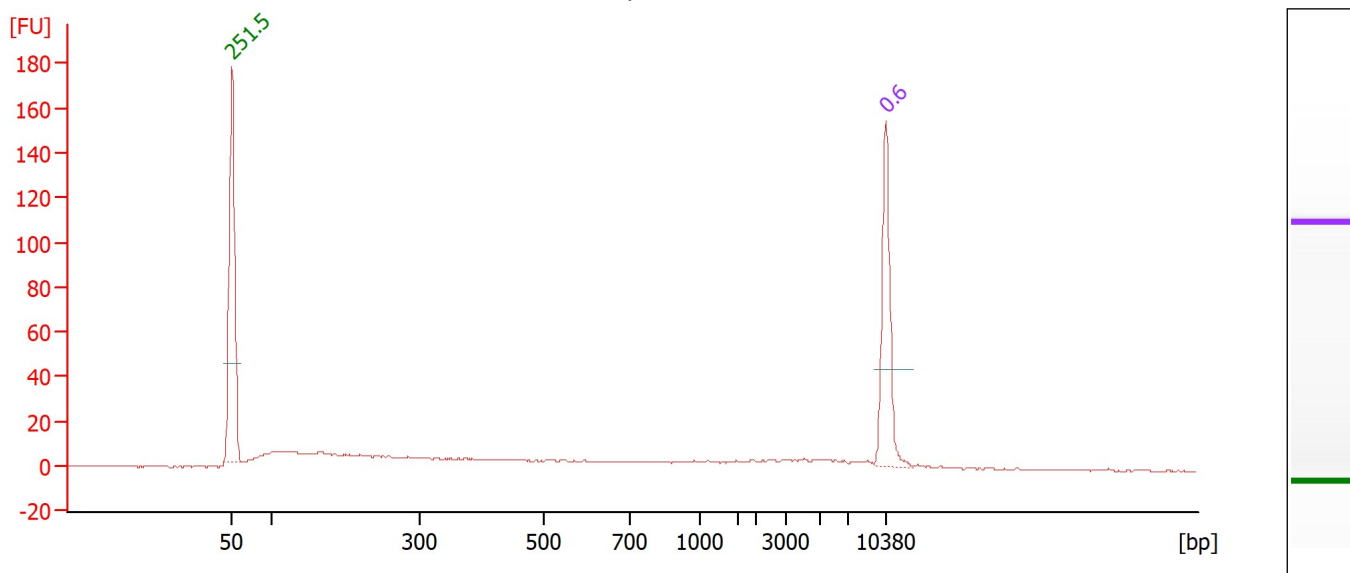
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,380	4.20	0.6	Upper Marker

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Electropherogram Summary Continued ...

Sample 7

**Overall Results for sample 7 : Sample 7**

Number of peaks found: 0

Peak table for sample 7 : Sample 7

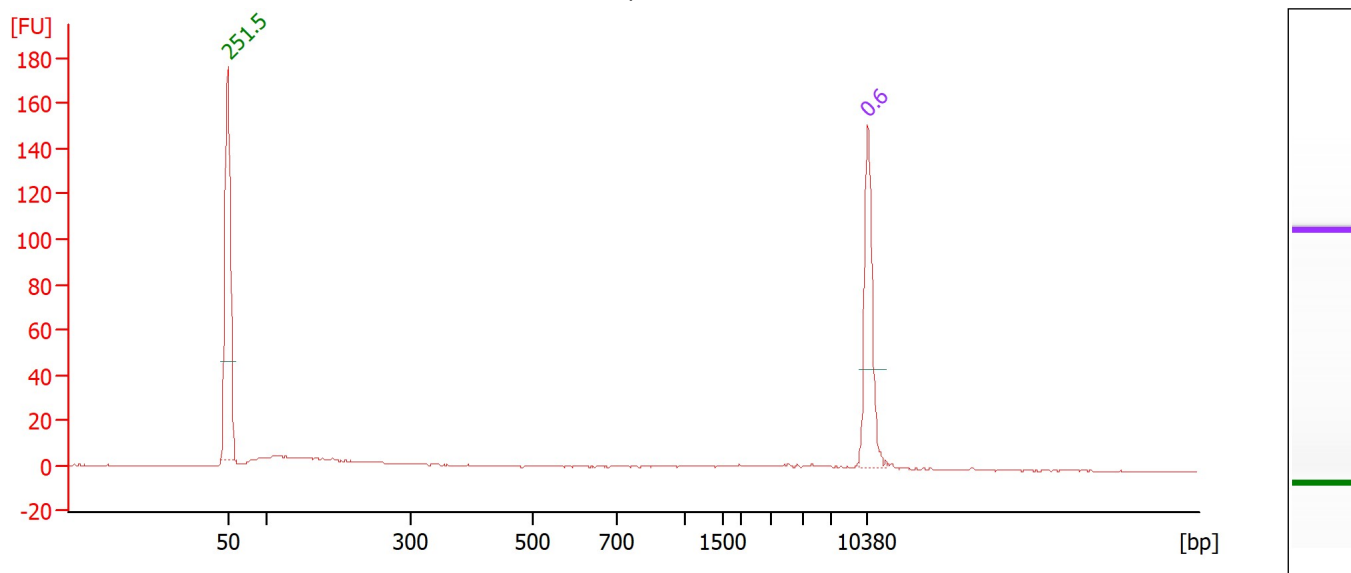
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,380	4.20	0.6	Upper Marker

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Electropherogram Summary Continued ...

Sample 8

**Overall Results for sample 8 : Sample 8**

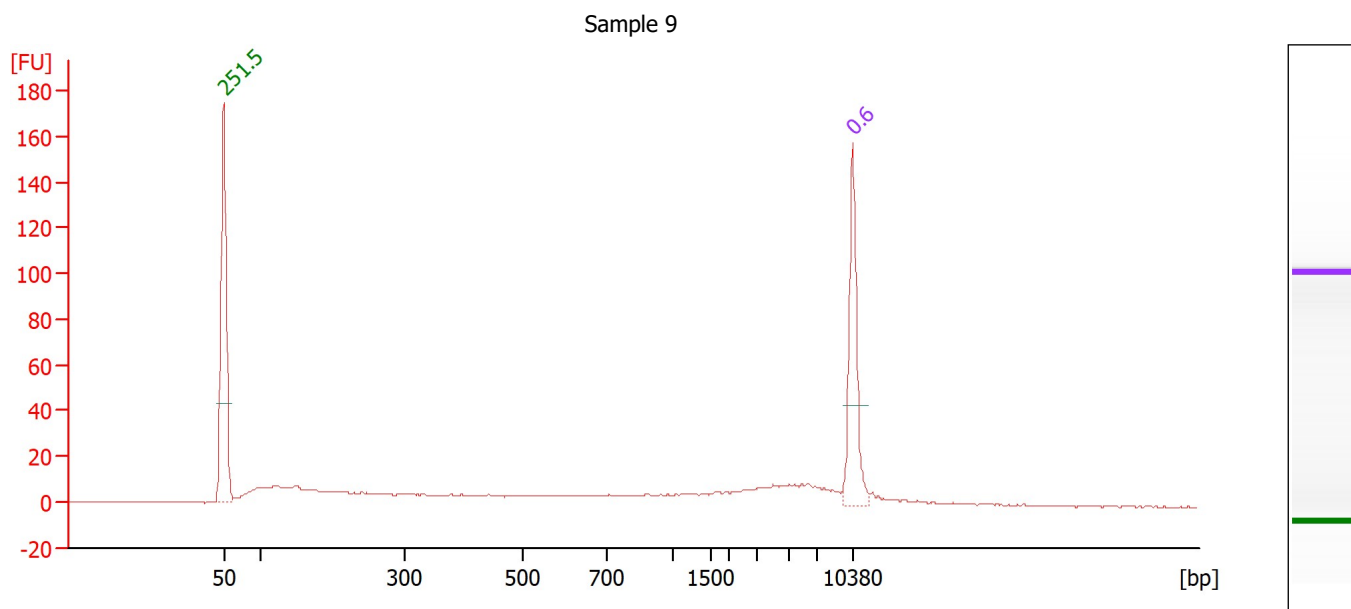
Number of peaks found: 0

Peak table for sample 8 : Sample 8

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,380	4.20	0.6	Upper Marker

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Electropherogram Summary Continued ...**Overall Results for sample 9 : Sample 9**

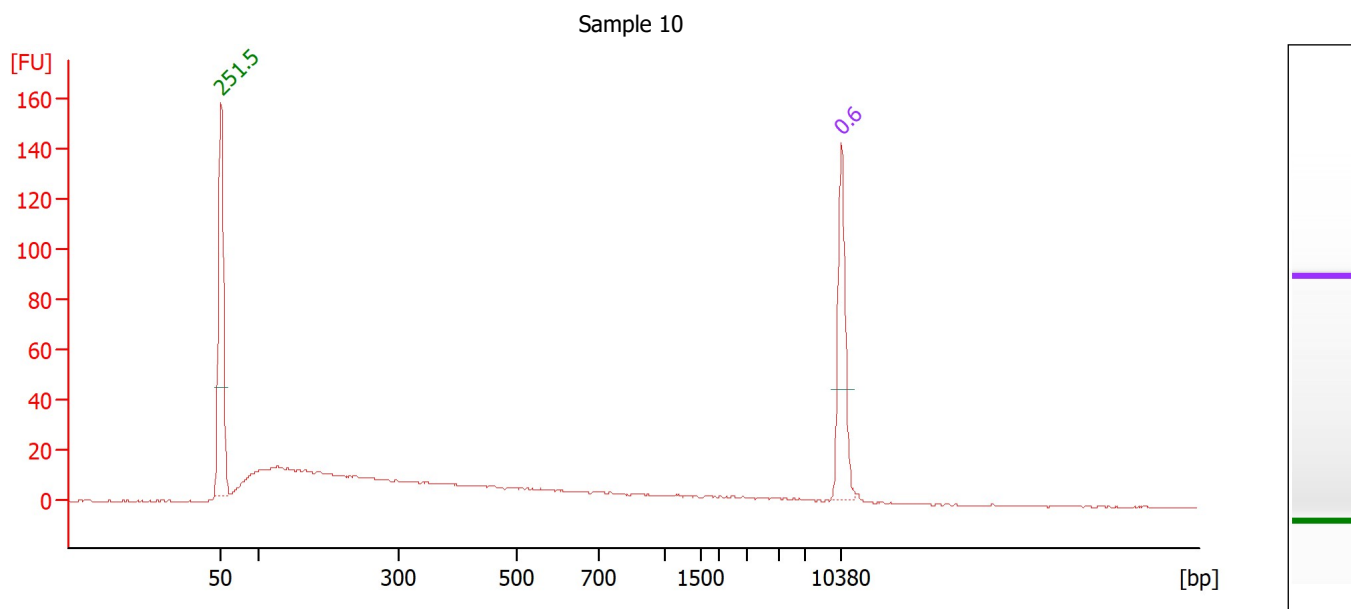
Number of peaks found: 0

Peak table for sample 9 : Sample 9

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,380	4.20	0.6	Upper Marker

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Electropherogram Summary Continued ...**Overall Results for sample 10 : Sample 10**

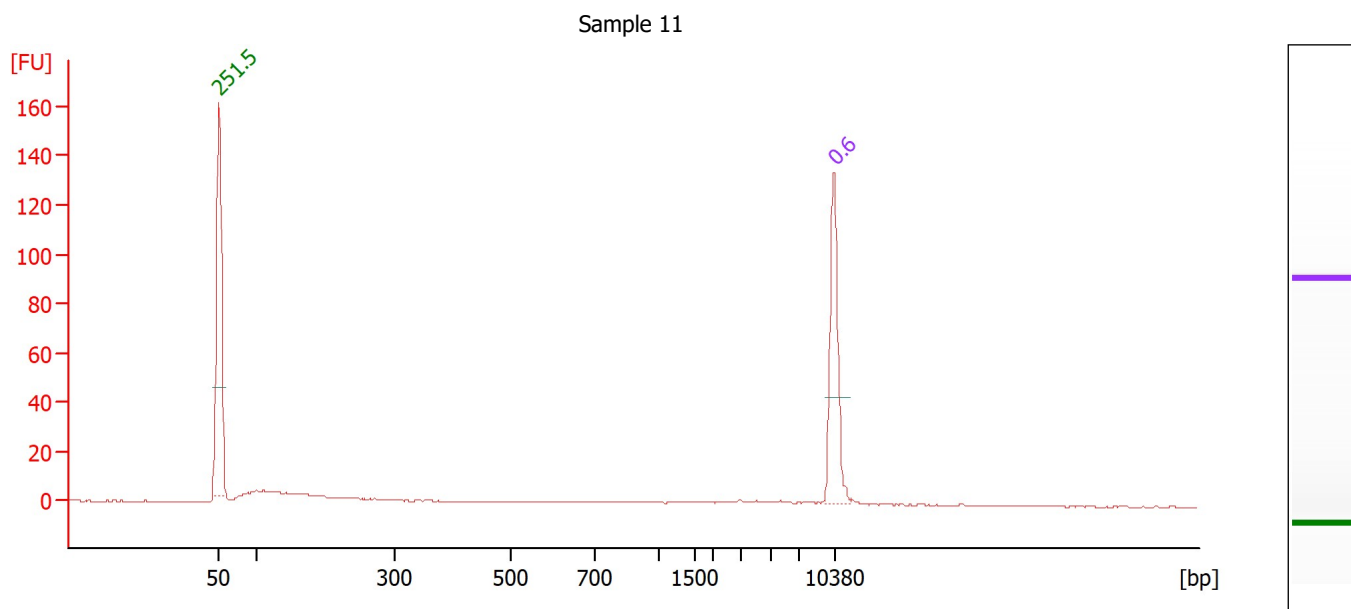
Number of peaks found: 0

Peak table for sample 10 : Sample 10

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,380	4.20	0.6	Upper Marker

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Electropherogram Summary Continued ...**Overall Results for sample 11 : Sample 11**

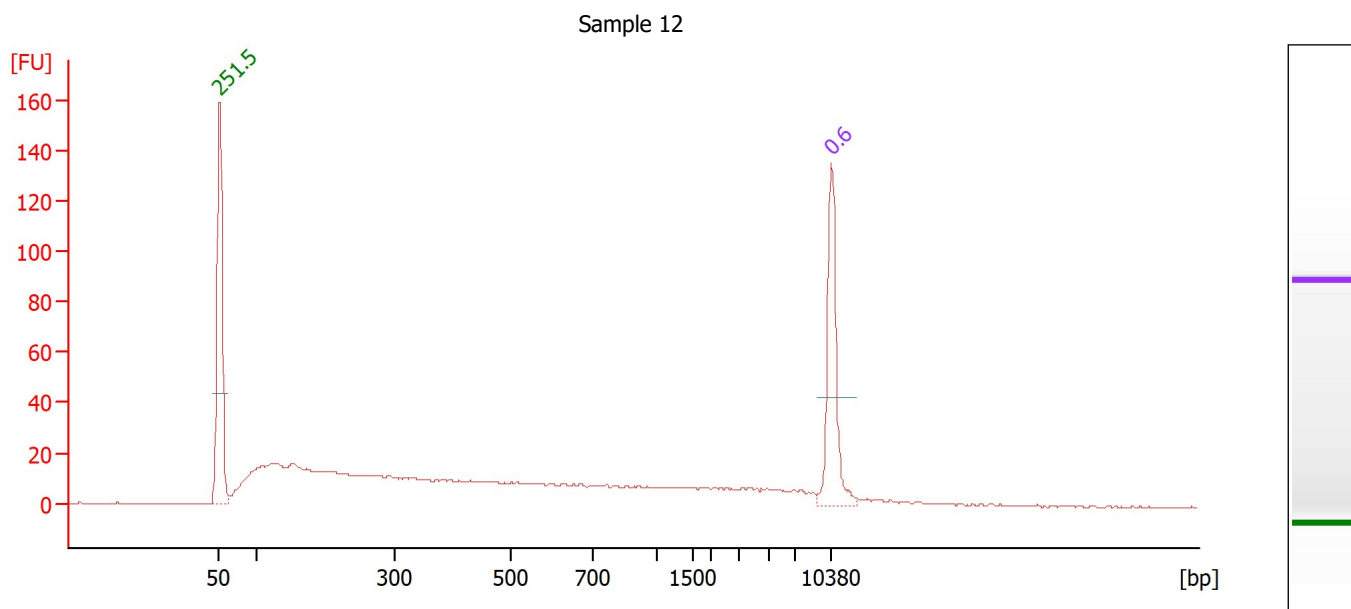
Number of peaks found: 0

Peak table for sample 11 : Sample 11

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,380	4.20	0.6	Upper Marker

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Electropherogram Summary Continued ...**Overall Results for sample 12 : Sample 12**

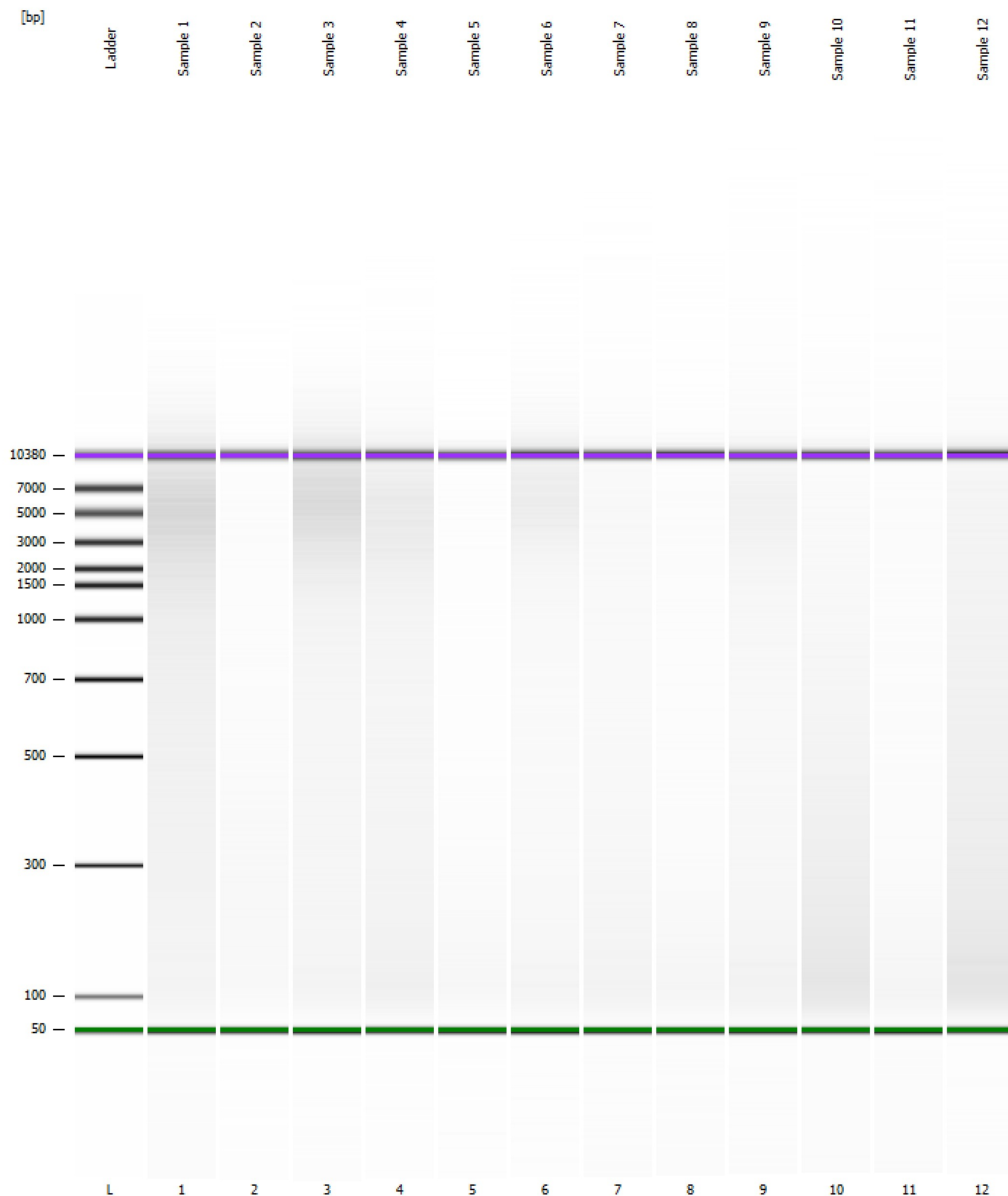
Number of peaks found: 0

Peak table for sample 12 : Sample 12

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	10,380	4.20	0.6	Upper Marker

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

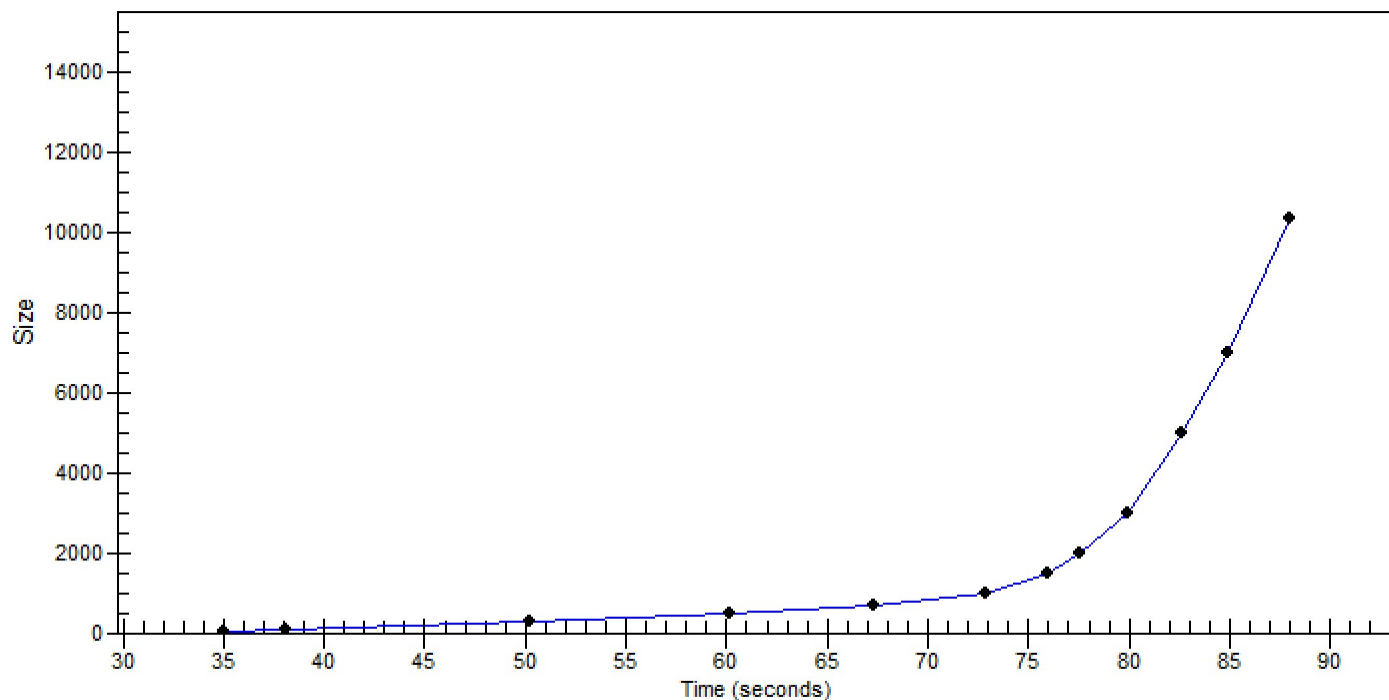
Gel Image

Assay Class: DNA 7500
Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
Modified: 9/2/2021 1:34:12 PM

Curves

Standard Curve



Assay Class: DNA 7500
 Data Path: C:\Users\Bioanalyzer\Desktop\Users\sudmant\frag_test_5_SG.xad

Created: 9/2/2021 12:54:35 PM
 Modified: 9/2/2021 1:34:12 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 3 (Number of wells acquired: 13)		Instrument	Run		9/2/2021 1:28:33 PM	(GMT --07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Run started on port 3 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\Data\2021-09-02\2100 expert_DNA 7500_DE13804176_2021-09-02_12-54-36.xad)		Instrument	Run		9/2/2021 12:54:41 PM	(GMT --07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Product Number : G2939A		Instrument	Run		9/2/2021 12:54:41 PM	(GMT --07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Name : 4170_bioanalyzer		Instrument	Run		9/2/2021 12:54:41 PM	(GMT --07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Vendor : Agilent Technologies		Instrument	Run		9/2/2021 12:54:41 PM	(GMT --07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Serial# : DE13804176		Instrument	Run		9/2/2021 12:54:41 PM	(GMT --07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Firmware : C.01.069		Instrument	Run		9/2/2021 12:54:41 PM	(GMT --07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C
Cartridge : Electrode		Instrument	Run		9/2/2021 12:54:41 PM	(GMT --07:00) Pacific Standard Time	Bioanalyzer	BIOANALYZERP C