

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-01-25_001.xad

Created: 1/25/2024 11:20:22 AM
Modified: 1/25/2024 12:01:46 PM

Electrophoresis File Run Summary

Instrument Information:

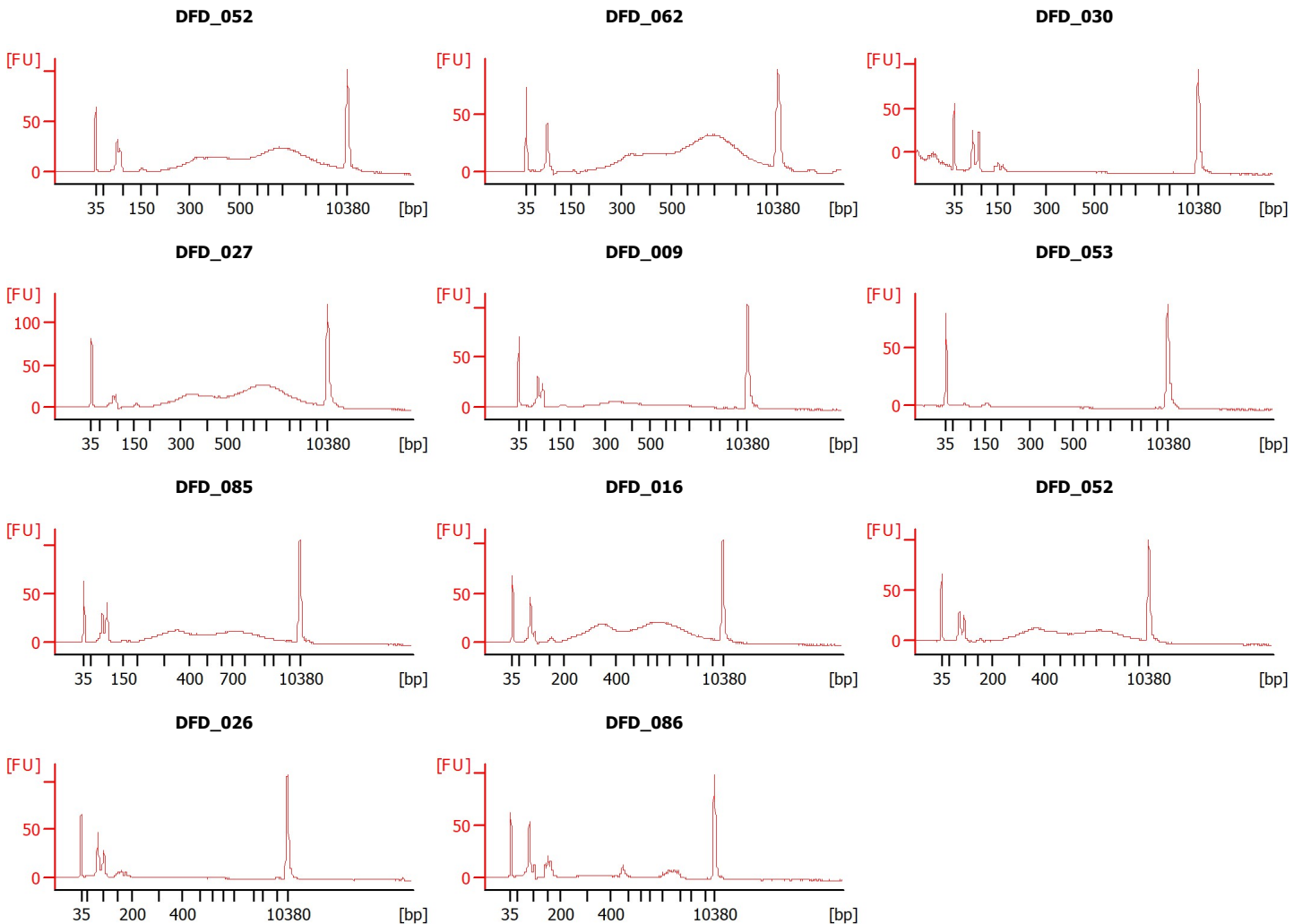
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
DFD_052		<input type="checkbox"/>	✓			
DFD_062		<input type="checkbox"/>	✓			
DFD_030		<input type="checkbox"/>	✓			
DFD_027		<input type="checkbox"/>	✓			
DFD_009		<input type="checkbox"/>	✓			
DFD_053		<input type="checkbox"/>	✓			
DFD_085		<input type="checkbox"/>	✓			
DFD_016		<input type="checkbox"/>	✓			
DFD_052		<input type="checkbox"/>	✓			
DFD_026		<input type="checkbox"/>	✓			
DFD_086		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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/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

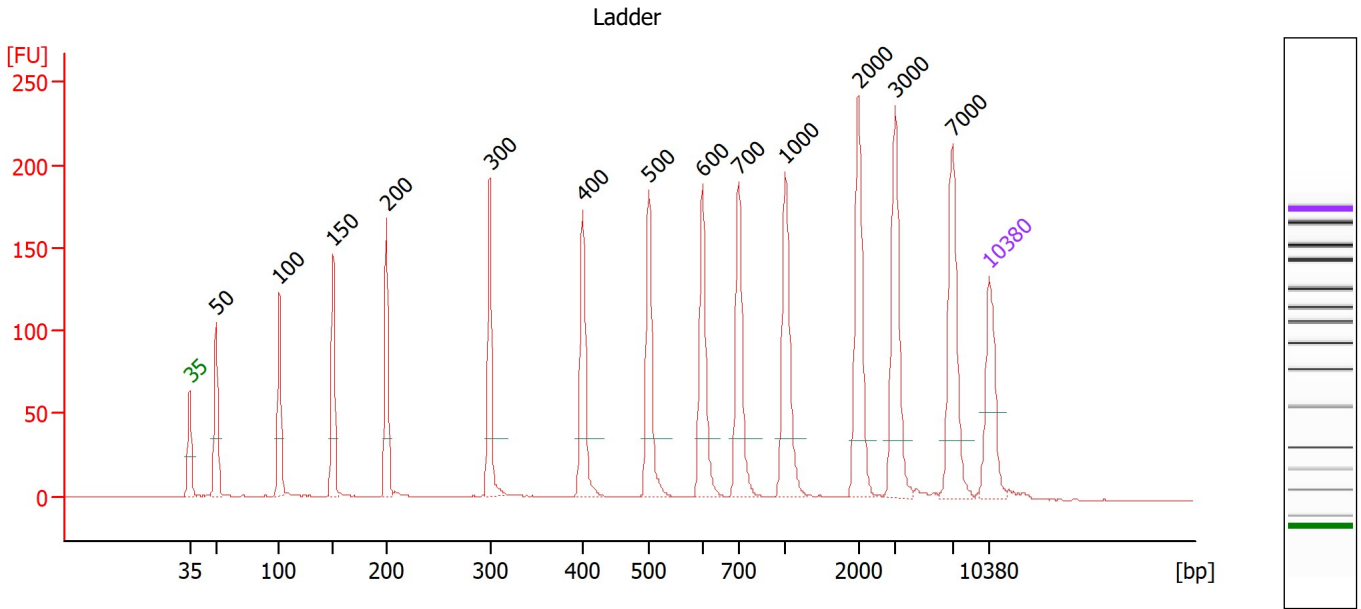
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

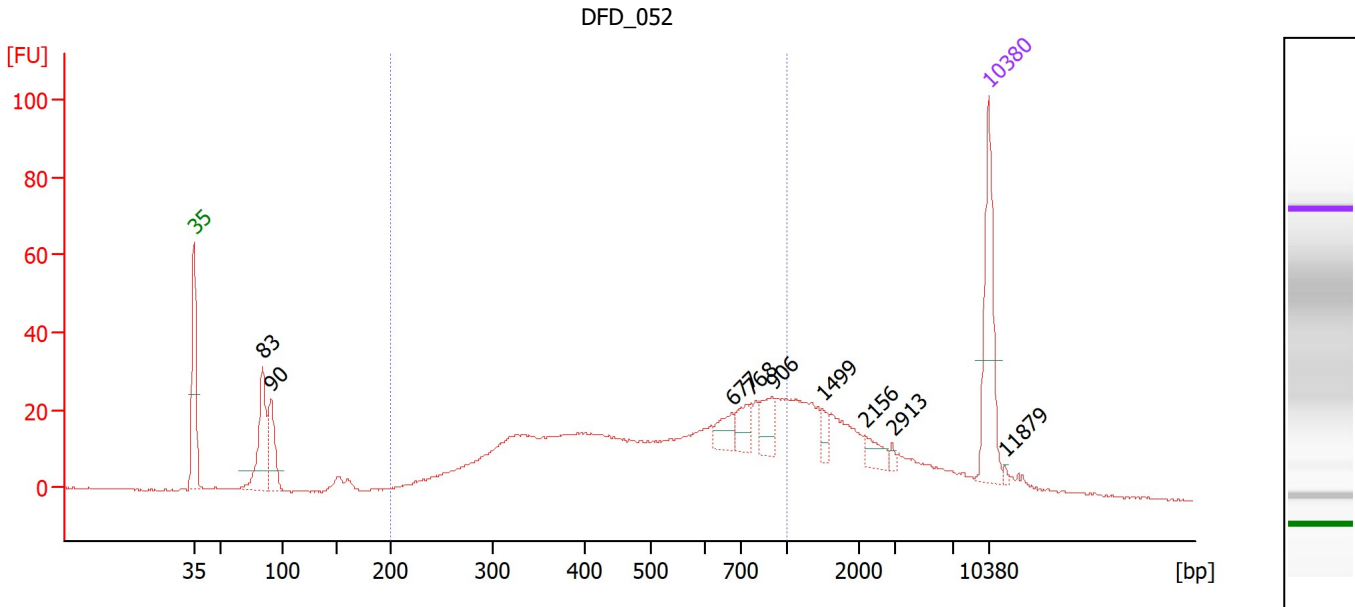
Peak table for Ladder

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

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 Modified: 1/25/2024 12:01:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : DFD_052

Number of peaks found: 9 Corr. Area 1: 593.0
 Noise: 0.2

Peak table for sample 1 : DFD_052

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	83	102.60	1,865.3	
3	90	66.06	1,110.2	
4	677	20.23	45.3	
5	768	23.54	46.5	
6	906	25.41	42.5	
7	1,499	8.78	8.9	
8	2,156	13.95	9.8	
9	2,913	3.47	1.8	
10	10,380	75.00	10.9	Upper Marker
11	11,879	0.00	0.0	

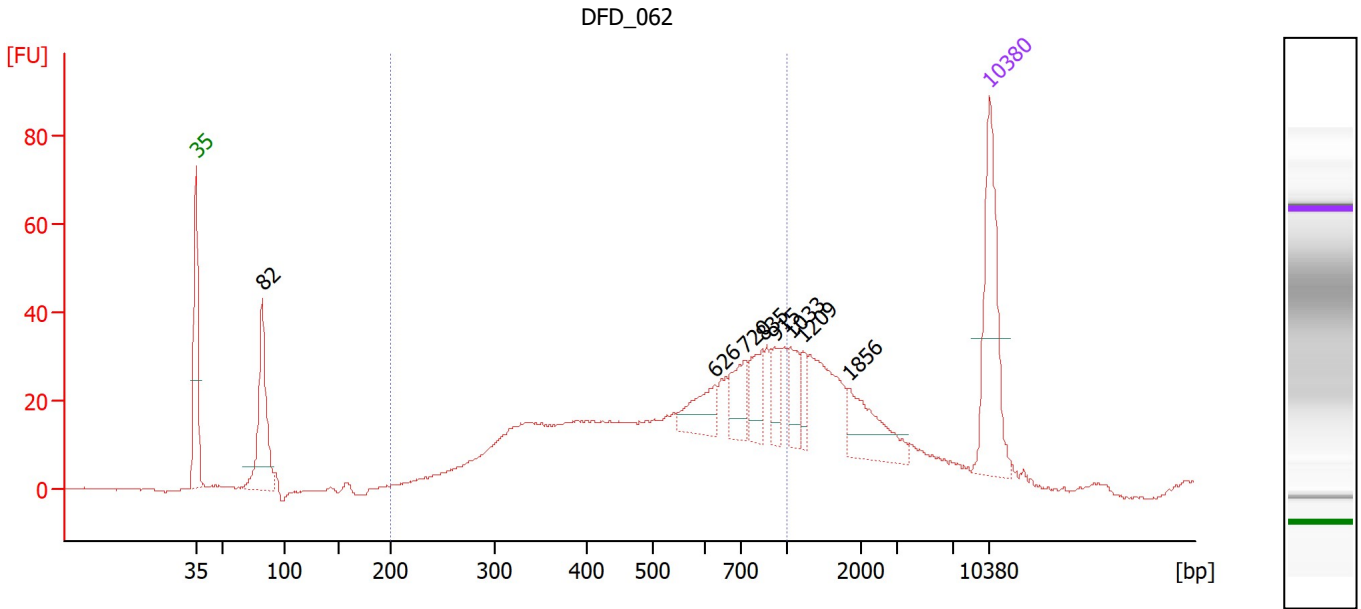
Region table for sample 1 : DFD_052

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	593.0	62	533	38.0	799.30	2,798.4	Blue

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Created: 1/25/2024 11:20:22 AM
 Modified: 1/25/2024 12:01:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : DFD_062

Number of peaks found: 8 Corr. Area 1: 621.6
 Noise: 0.2

Peak table for sample 2 : DFD_062

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	108.56	2,013.0	
3	626	31.64	76.6	
4	720	30.13	63.4	
5	835	27.42	49.8	
6	915	20.16	33.4	
7	1,033	22.14	32.5	
8	1,209	11.92	14.9	
9	1,856	40.46	33.0	
10	10,380	75.00	10.9	Upper Marker

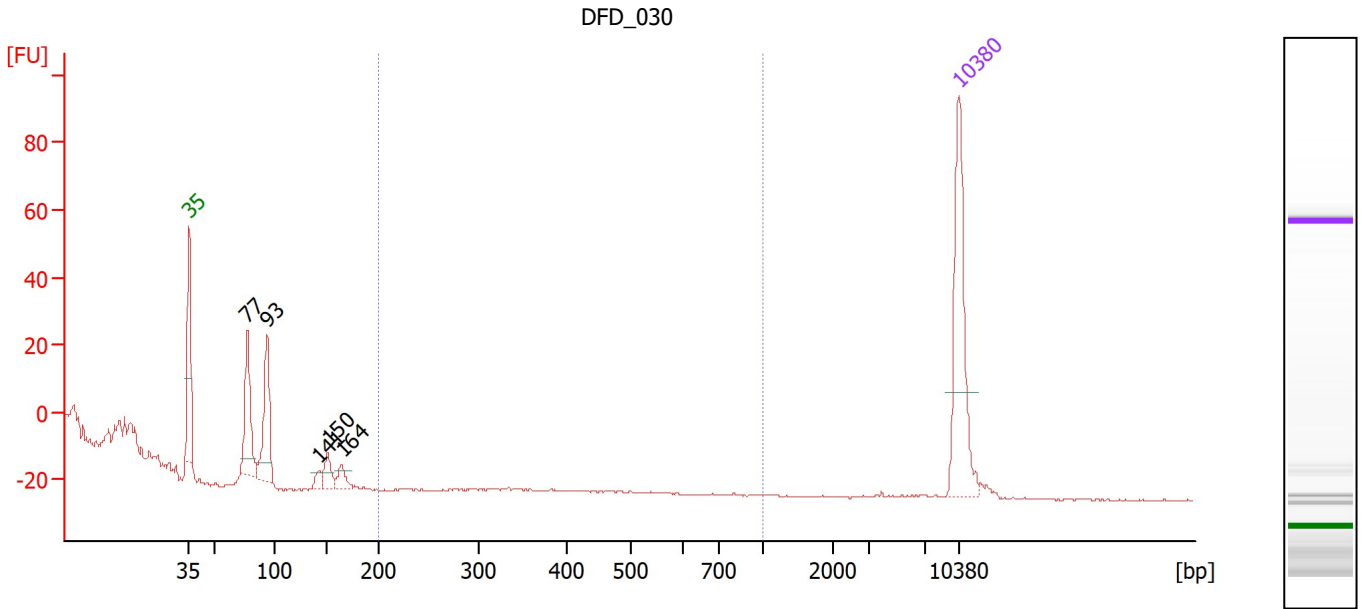
Region table for sample 2 : DFD_062

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	621.6	65	561	36.3	638.83	2,108.9	Blue

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Created: 1/25/2024 11:20:22 AM
 Modified: 1/25/2024 12:01:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : DFD_030

Number of peaks found: 5 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 3 : DFD_030

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	77	75.31	1,486.5	
3	93	72.41	1,179.3	
4	141	8.87	95.2	
5	150	18.47	186.0	
6	164	12.83	118.5	
7	10,380	75.00	10.9	Upper Marker

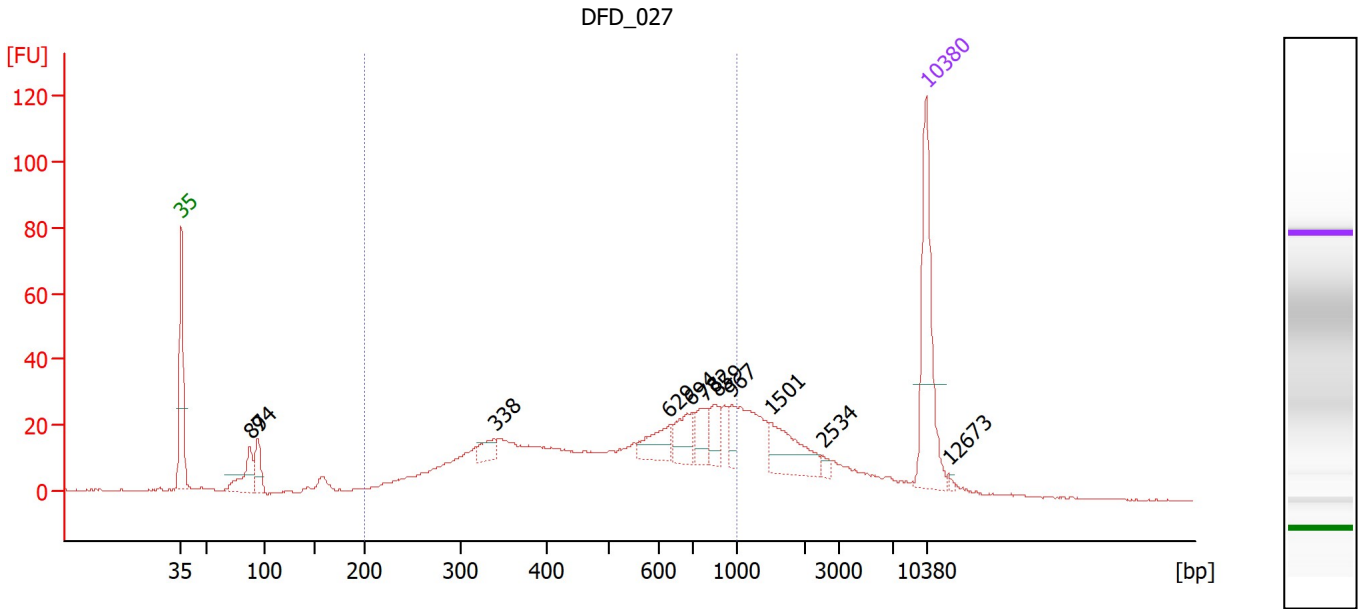
Region table for sample 3 : DFD_030

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	0.0	0	0	0.0	0.00	0.0	Blue

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Created: 1/25/2024 11:20:22 AM
 Modified: 1/25/2024 12:01:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : DFD_027

Number of peaks found: 11 Corr. Area 1: 629.3
 Noise: 0.2

Peak table for sample 4 : DFD_027

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	87	38.78	671.8	
3	94	28.34	455.5	
4	338	14.60	65.4	
5	629	25.46	61.3	
6	694	27.20	59.4	
7	782	22.19	43.0	
8	859	18.11	31.9	
9	967	11.98	18.8	
10	1,501	38.76	39.1	
11	2,534	4.10	2.5	
12	10,380	75.00	10.9	Upper Marker
13	12,673	0.00	0.0	

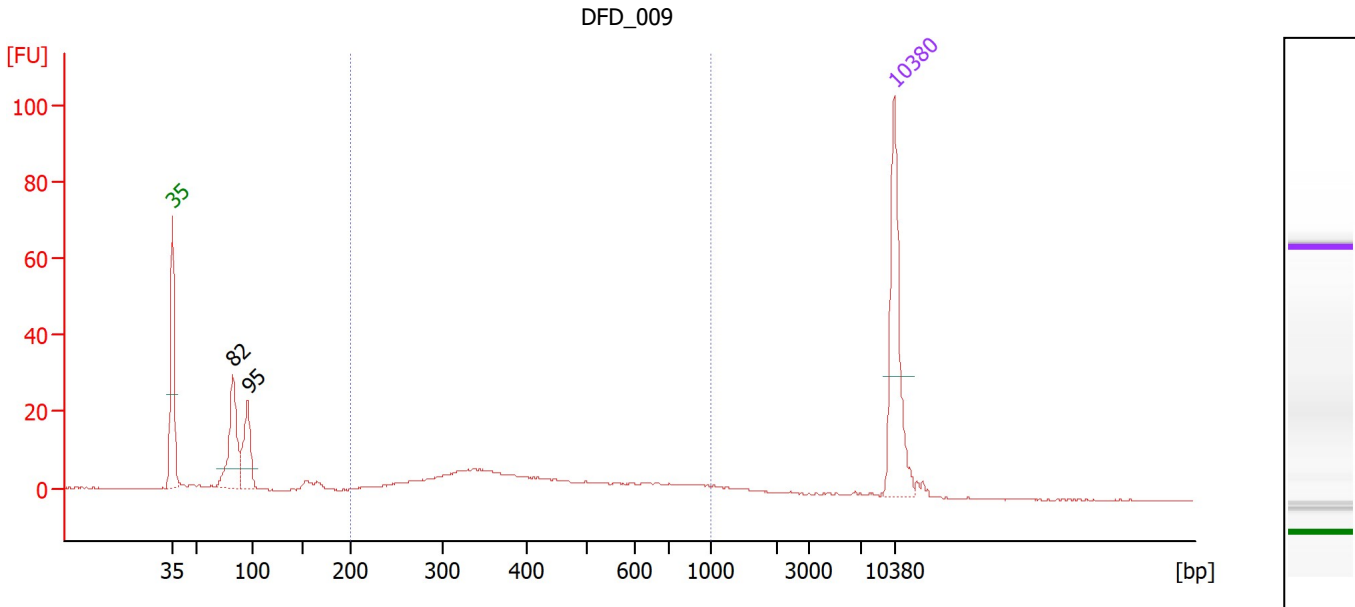
Region table for sample 4 : DFD_027

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	629.3	65	537	38.4	596.84	2,098.9	Blue

Assay Class: High Sensitivity DNA Assay
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Created: 1/25/2024 11:20:22 AM
 Modified: 1/25/2024 12:01:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : DFD_009

Number of peaks found: 2 Corr. Area 1: 149.8
 Noise: 0.2

Peak table for sample 5 : DFD_009

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	86.61	1,594.7	
3	95	58.77	933.1	
4	10,380	75.00	10.9	Upper Marker

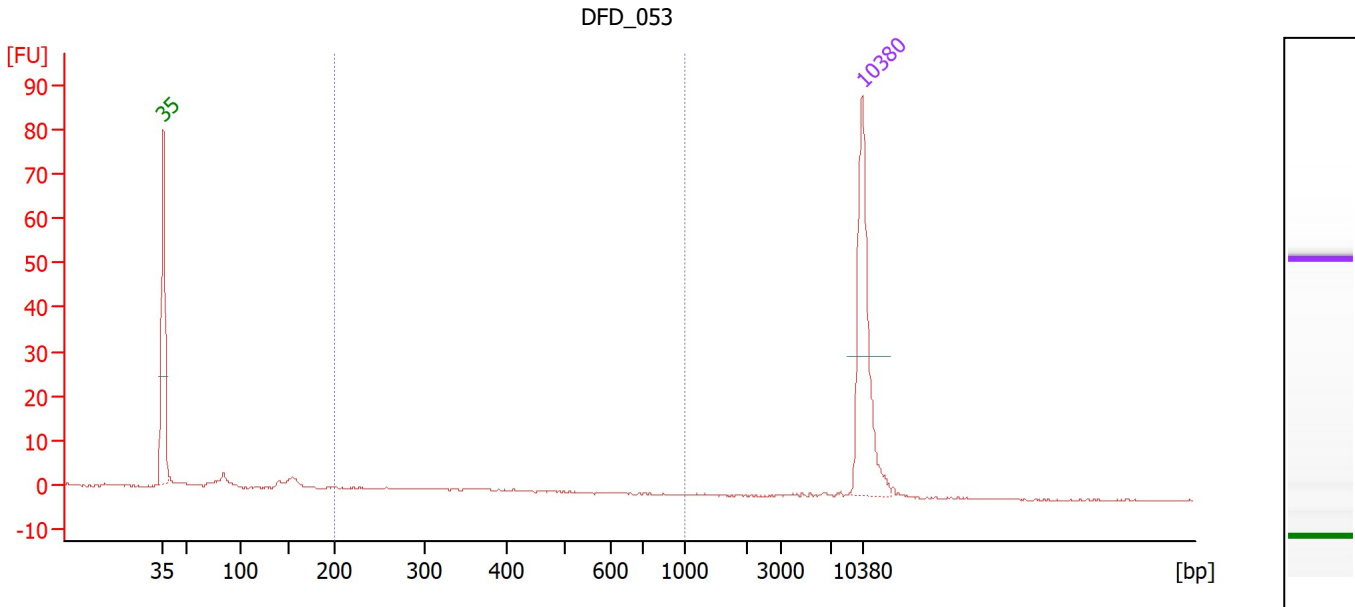
Region table for sample 5 : DFD_009

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	149.8	53	446	39.1	175.47	711.9	Blue

Assay Class: High Sensitivity DNA Assay
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Created: 1/25/2024 11:20:22 AM
 Modified: 1/25/2024 12:01:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : **DFD_053**

Number of peaks found: 0 Corr. Area 1: 5.6
 Noise: 0.2

Peak table for sample 6 : **DFD_053**

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

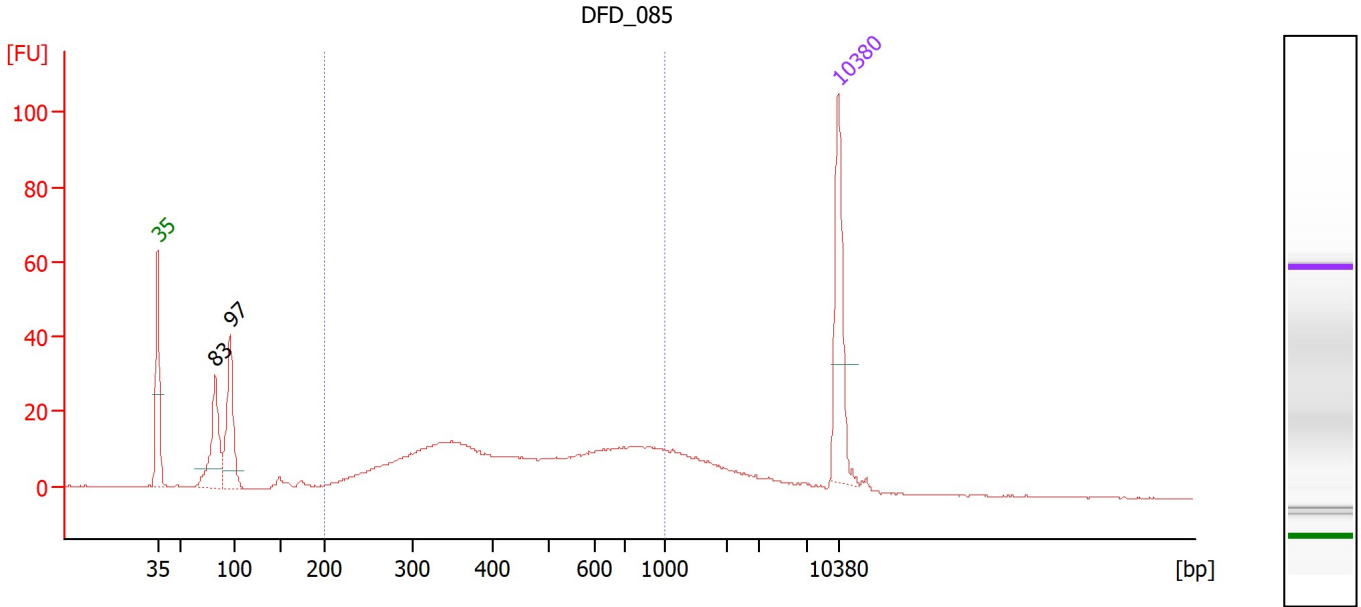
Region table for sample 6 : **DFD_053**

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	5.6	18	321	21.9	6.77	34.2	Blue

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 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-01-25_001.xad

Created: 1/25/2024 11:20:22 AM
 Modified: 1/25/2024 12:01:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : DFD_085

Number of peaks found: 2 Corr. Area 1: 399.3
 Noise: 0.2

Peak table for sample 7 : DFD_085

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	83	101.70	1,866.2	
3	97	112.54	1,766.8	
4	10,380	75.00	10.9	Upper Marker

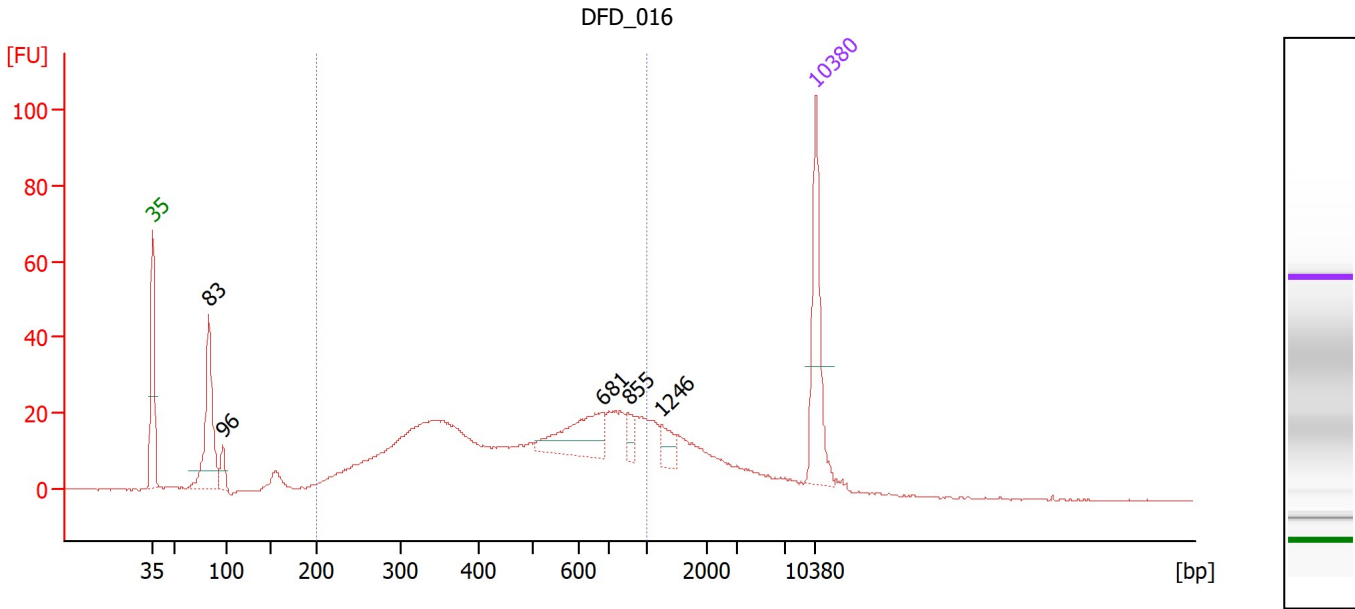
Region table for sample 7 : DFD_085

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	399.3	62	490	39.8	499.30	1,903.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-01-25_001.xad

Created: 1/25/2024 11:20:22 AM
 Modified: 1/25/2024 12:01:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : DFD_016

Number of peaks found: 5 Corr. Area 1: 617.4
 Noise: 0.1

Peak table for sample 8 : DFD_016

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	83	135.74	2,479.9	
3	96	21.90	344.9	
4	681	67.85	151.0	
5	855	13.42	23.8	
6	1,246	16.14	19.6	
7	10,380	75.00	10.9	Upper Marker

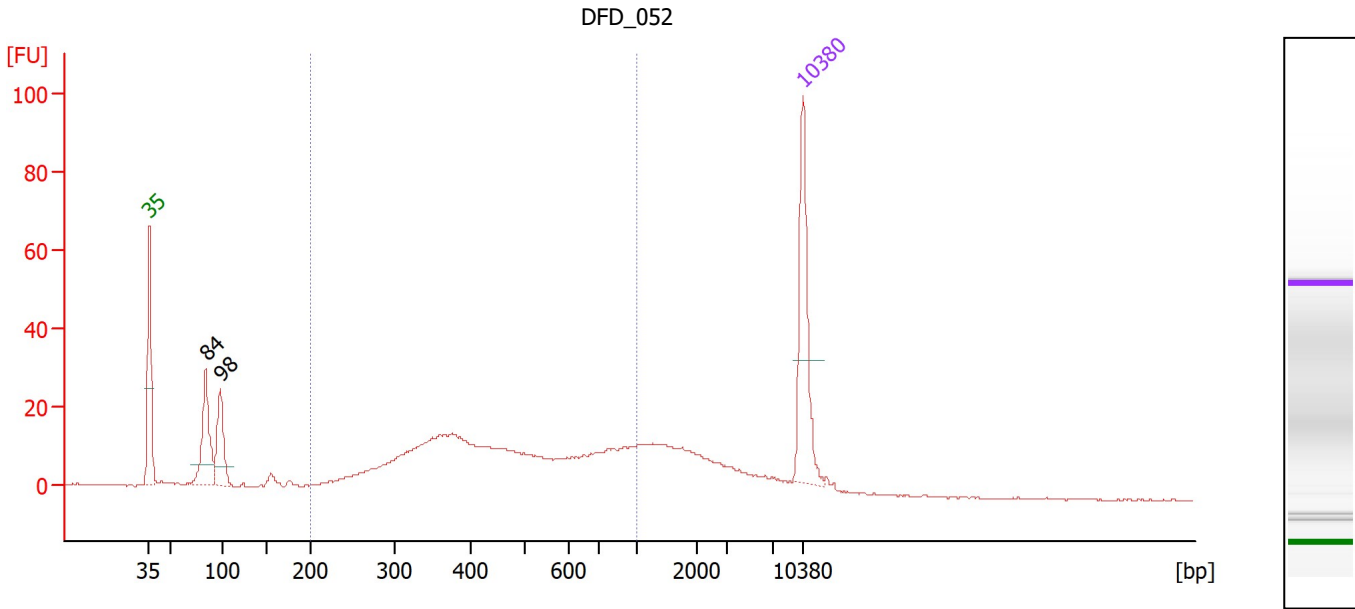
Region table for sample 8 : DFD_016

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	617.4	68	506	39.5	752.93	2,809.7	Blue

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 Data Path: C:\...r1_High Sensitivity DNA Assay_DE34903152_2024-01-25_001.xad

Created: 1/25/2024 11:20:22 AM
 Modified: 1/25/2024 12:01:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : DFD_052

Number of peaks found: 2 Corr. Area 1: 370.2
 Noise: 0.2

Peak table for sample 9 : DFD_052

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	84	89.64	1,622.0	
3	98	66.54	1,031.7	
4	10,380	75.00	10.9	Upper Marker

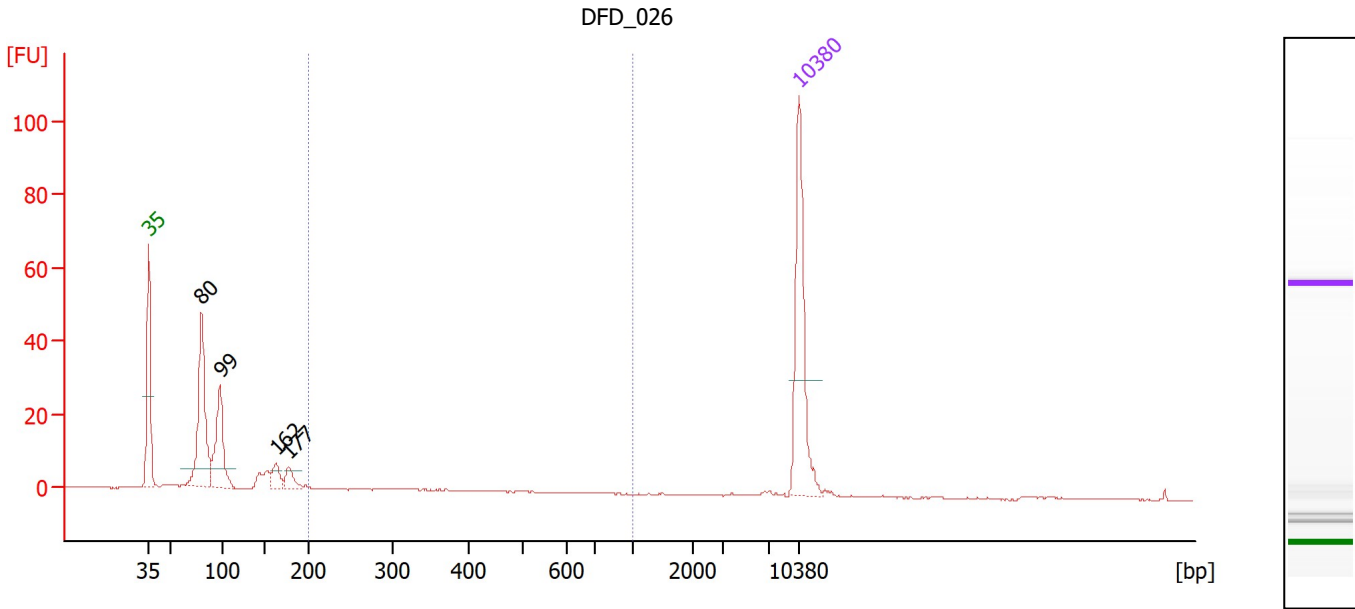
Region table for sample 9 : DFD_052

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	370.2	60	492	38.3	449.46	1,661.7	Blue

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Created: 1/25/2024 11:20:22 AM
 Modified: 1/25/2024 12:01:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : DFD_026

Number of peaks found: 4 Corr. Area 1: 12.8
 Noise: 0.1

Peak table for sample 10 : DFD_026

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	125.84	2,372.7	
3	99	77.10	1,185.0	
4	162	14.56	135.9	
5	177	13.64	116.7	
6	10,380	75.00	10.9	Upper Marker

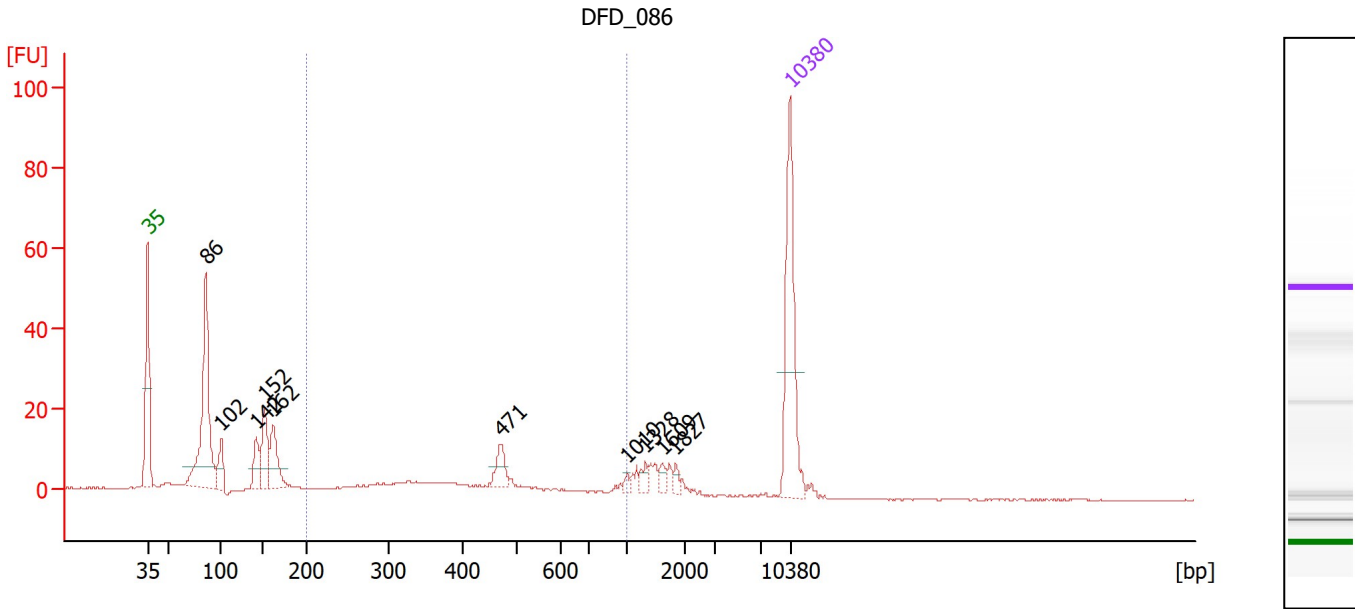
Region table for sample 10 : DFD_026

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	12.8	7	370	34.8	15.00	70.9	Blue

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Created: 1/25/2024 11:20:22 AM
 Modified: 1/25/2024 12:01:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : DFD_086

Number of peaks found: 10 Corr. Area 1: 82.7
 Noise: 0.1

Peak table for sample 11 : DFD_086

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	86	157.97	2,774.4	
3	102	24.22	360.5	
4	142	25.97	276.2	
5	152	39.53	394.7	
6	162	38.82	362.4	
7	471	16.82	54.1	
8	1,010	2.84	4.3	
9	1,328	5.71	6.5	
10	1,609	4.96	4.7	
11	1,827	4.57	3.8	
12	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : DFD_086

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	82.7	26	447	37.2	102.45	406.4	Blue

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Modified: 1/25/2024 12:01:46 PM

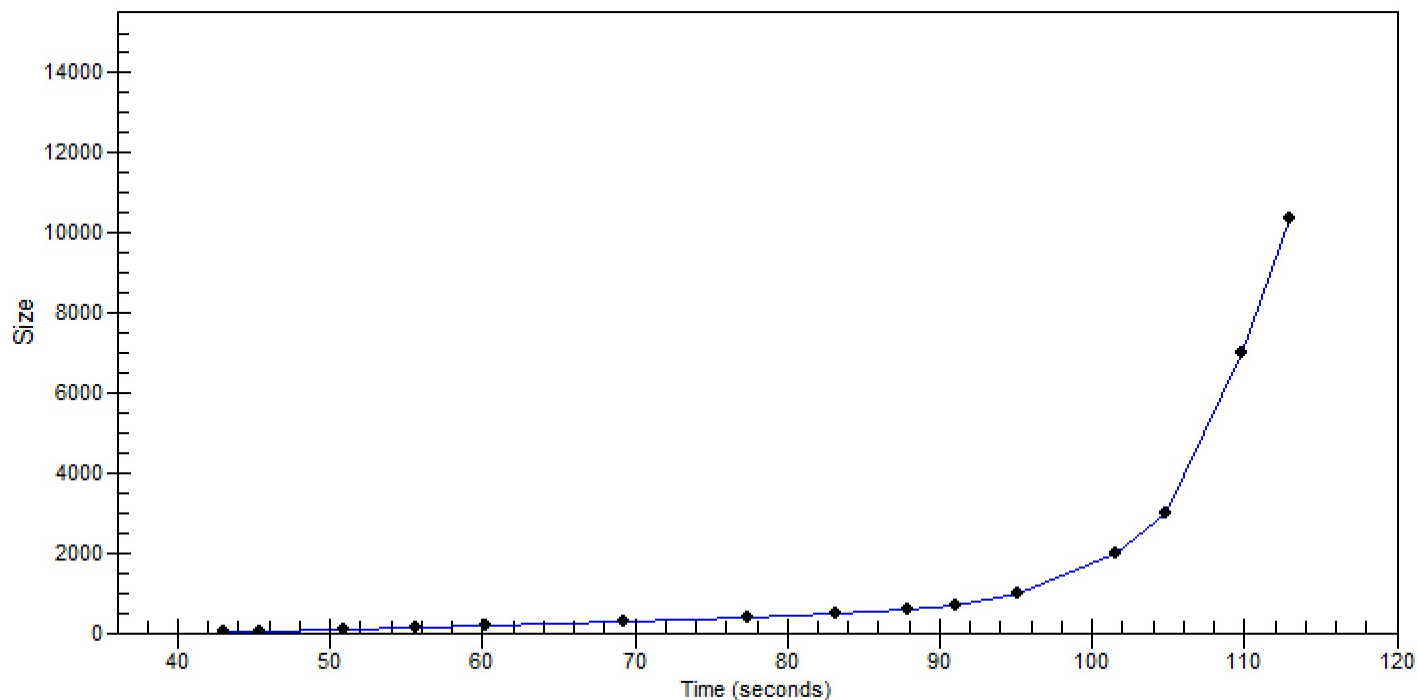
Gel Image

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Curves

Standard Curve



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 Modified: 1/25/2024 12:01:46 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		1/25/2024 12:01:43 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2024-01-25\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2024-01-25_001.xad)		Instrument	Run		1/25/2024 11:20:28 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/25/2024 11:20:28 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/25/2024 11:20:28 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/25/2024 11:20:28 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/25/2024 11:20:28 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/25/2024 11:20:28 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/25/2024 11:20:28 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB