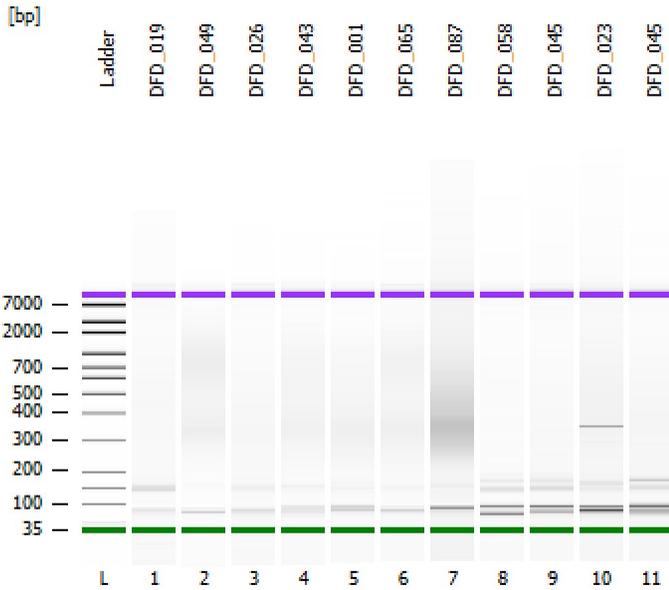


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
Modified: 1/25/2024 1:10:50 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

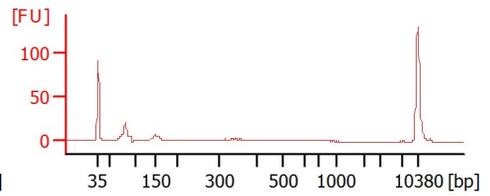
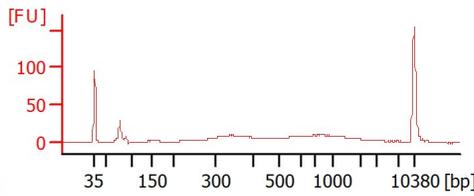
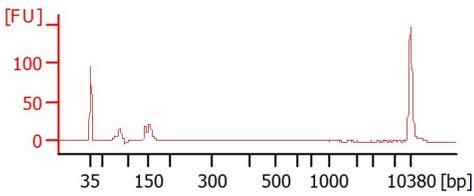
Chip Information:

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

**DFD\_019**

**DFD\_049**

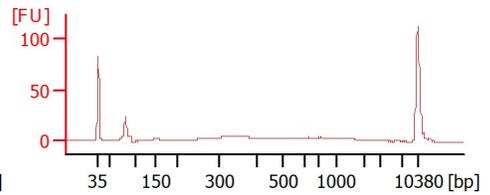
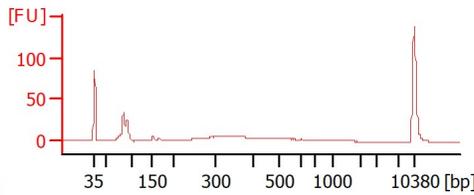
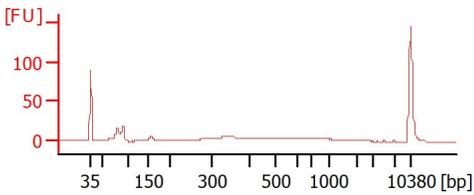
**DFD\_026**



**DFD\_043**

**DFD\_001**

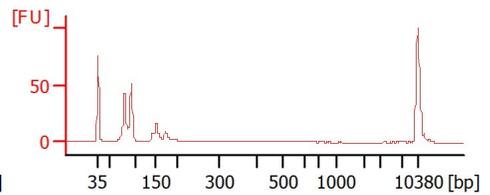
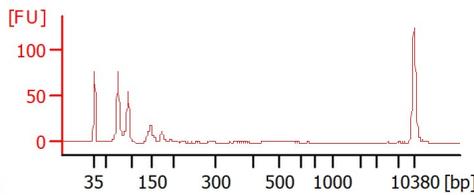
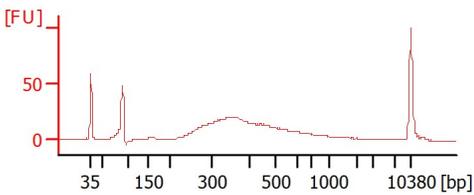
**DFD\_065**



**DFD\_087**

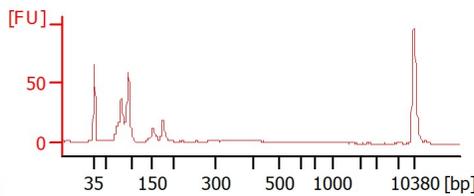
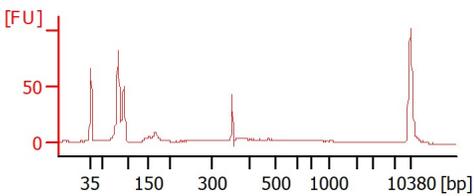
**DFD\_058**

**DFD\_045**



**DFD\_023**

**DFD\_045**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
DFD_019		<input type="checkbox"/>	✓			
DFD_049		<input type="checkbox"/>	✓			
DFD_026		<input type="checkbox"/>	✓			
DFD_043		<input type="checkbox"/>	✓			
DFD_001		<input type="checkbox"/>	✓			
DFD_065		<input type="checkbox"/>	✓			
DFD_087		<input type="checkbox"/>	✓			
DFD_058		<input type="checkbox"/>	✓			
DFD_045		<input type="checkbox"/>	✓			
DFD_023		<input type="checkbox"/>	✓			
DFD_045		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 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

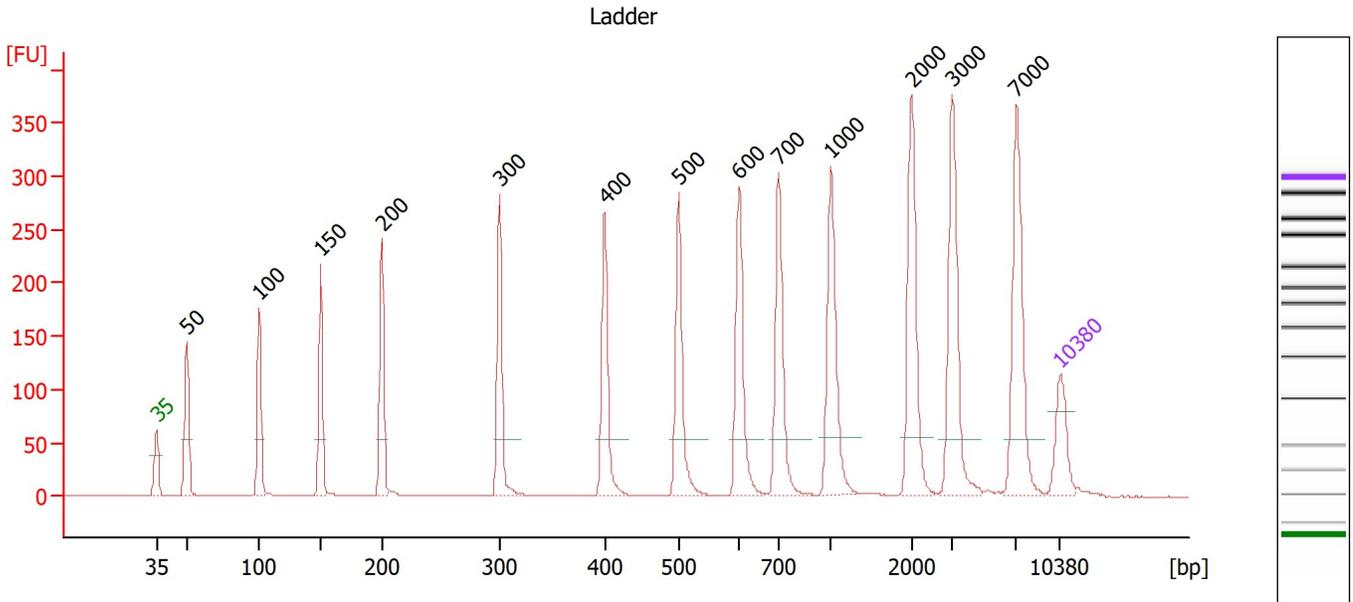
**Ladder**

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:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

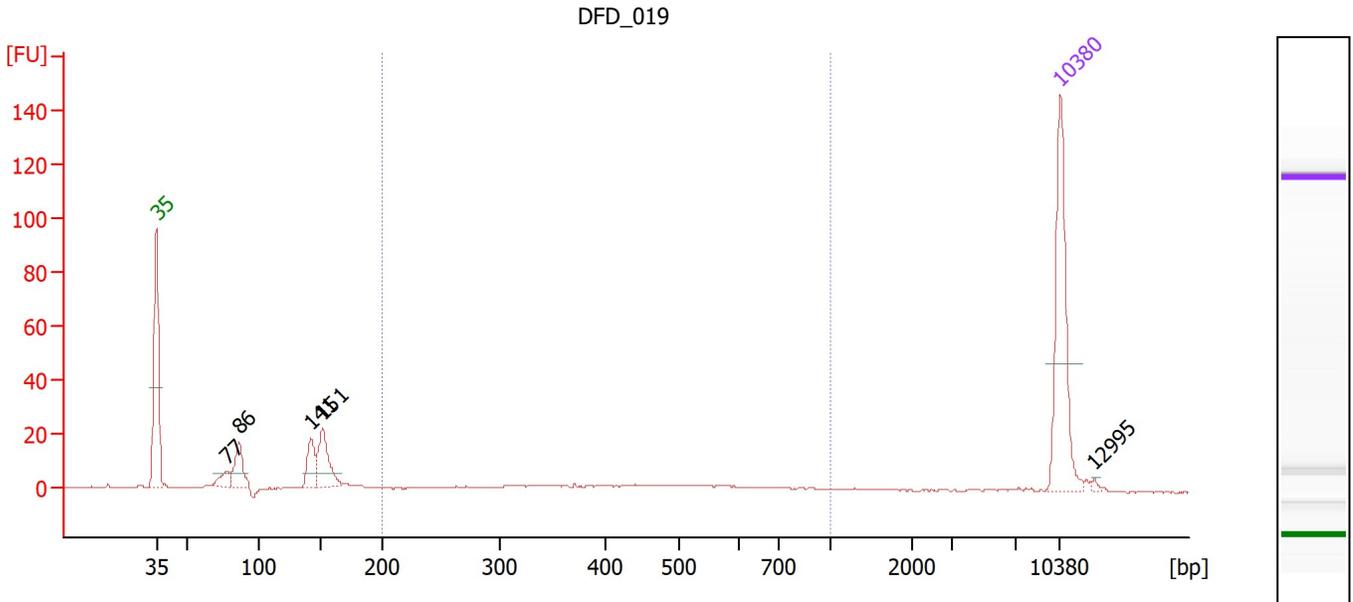
**Peak table for Ladder**

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:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : DFD\_019**

Number of peaks found: 5                      Corr. Area 1: 43.8  
 Noise: 0.1

**Peak table for sample 1 : DFD\_019**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	77	14.06	275.4	
3	86	32.58	576.1	
4	141	28.76	308.1	
5	151	42.92	429.6	
6	10,380	75.00	10.9	Upper Marker
7	12,995	0.00	0.0	

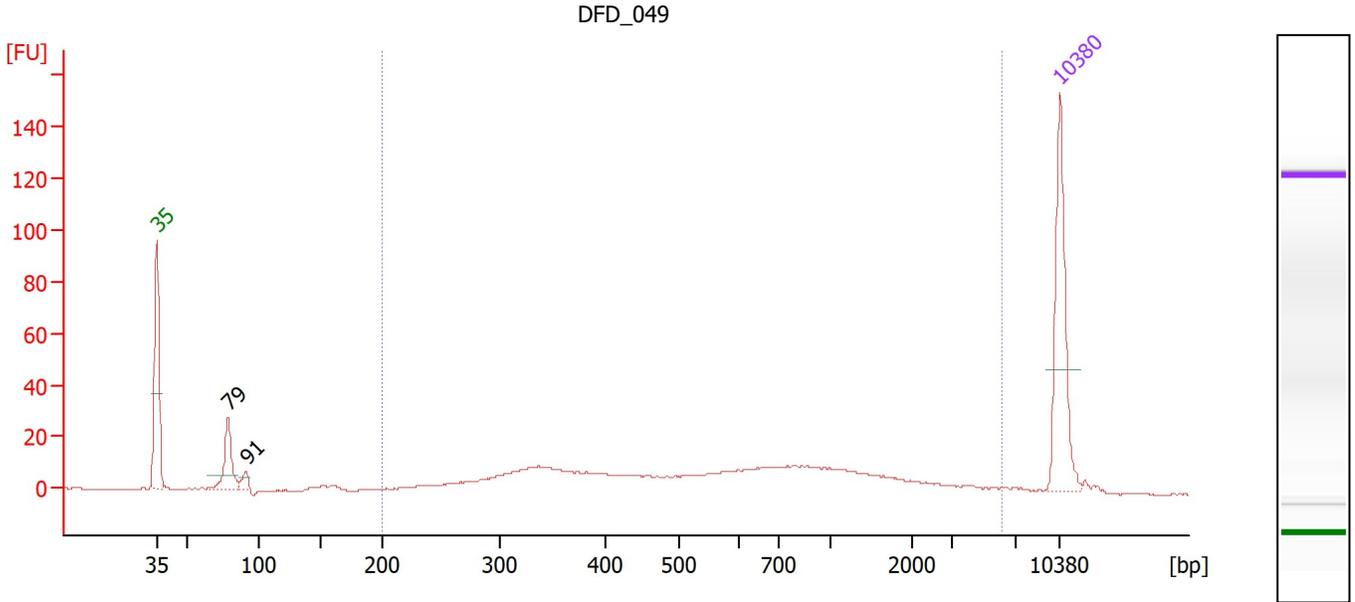
**Region table for sample 1 : DFD\_019**

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	43.8	27	476	33.2	39.17	144.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : DFD\_049**

Number of peaks found: 2                      Corr. Area 1: 341.4  
 Noise: 0.2

**Peak table for sample 2 : DFD\_049**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	50.45	972.7	
3	91	10.22	170.7	
4	10,380	75.00	10.9	Upper Marker

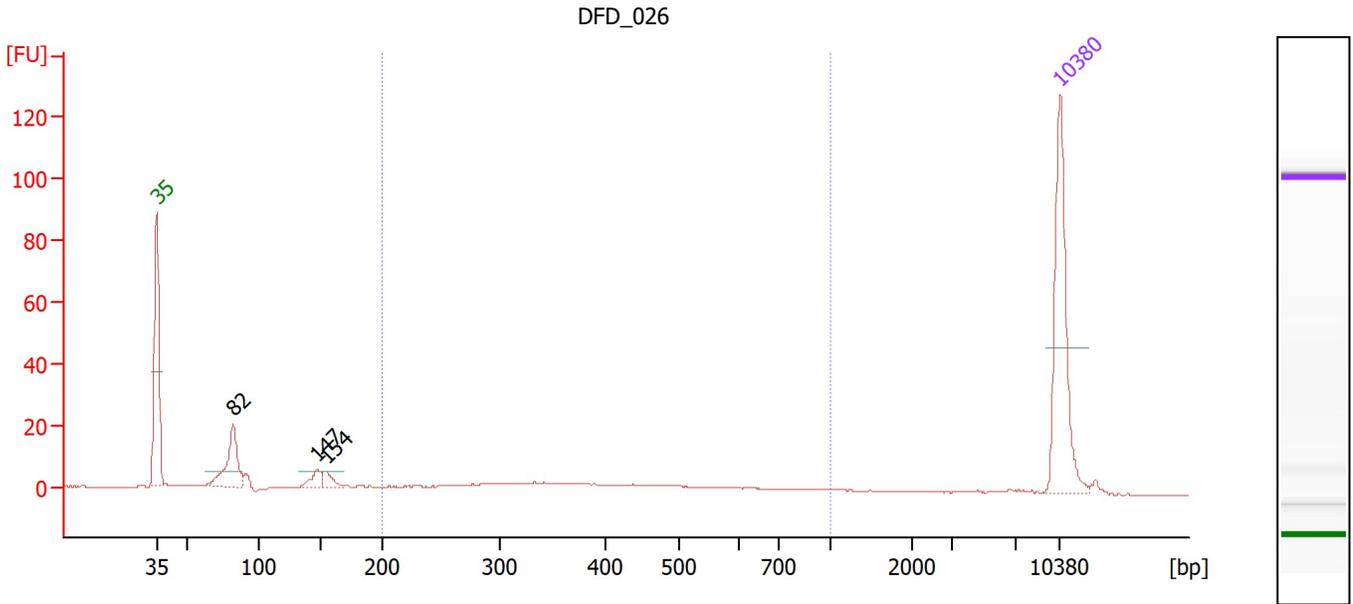
**Region table for sample 2 : DFD\_049**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	6,023	341.4	84	855	98.4	294.02	943.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : DFD\_026**

Number of peaks found: 3                      Corr. Area 1: 79.4  
 Noise: 0.2

**Peak table for sample 3 : DFD\_026**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	52.49	973.0	
3	147	12.02	124.0	
4	154	9.19	90.5	
5	10,380	75.00	10.9	Upper Marker

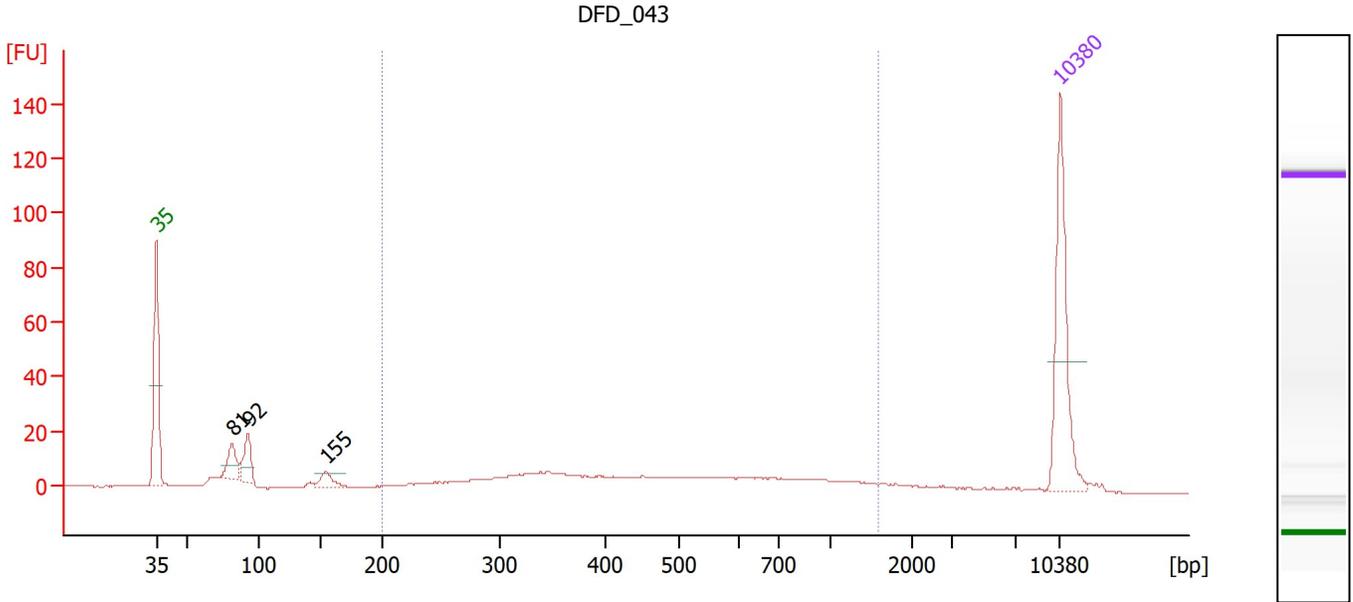
**Region table for sample 3 : DFD\_026**

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	79.4	42	431	38.8	76.55	323.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : DFD\_043**

Number of peaks found: 3                      Corr. Area 1: 189.8  
 Noise: 0.2

**Peak table for sample 4 : DFD\_043**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	28.38	529.5	
3	92	28.75	473.7	
4	155	13.55	132.7	
5	10,380	75.00	10.9	Upper Marker

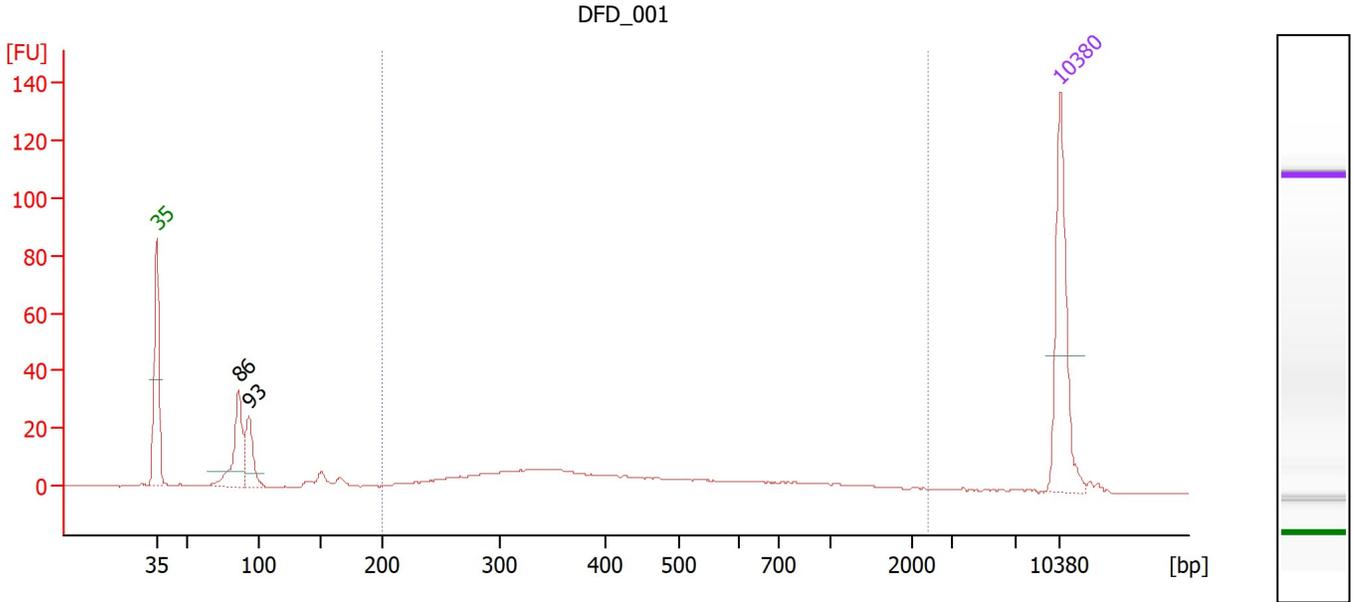
**Region table for sample 4 : DFD\_043**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,600	189.8	63	538	52.8	172.15	643.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : DFD\_001**

Number of peaks found: 2                      Corr. Area 1: 187.9  
 Noise: 0.2

**Peak table for sample 5 : DFD\_001**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	86	72.36	1,277.7	
3	93	44.55	729.7	
4	10,380	75.00	10.9	Upper Marker

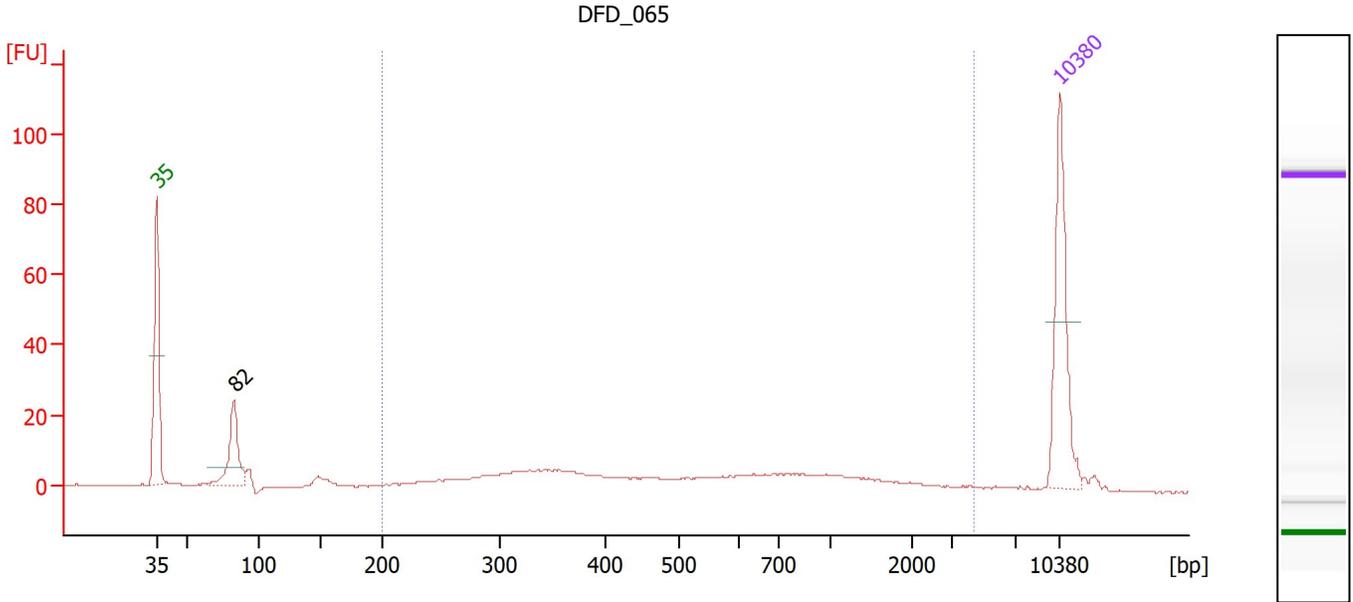
**Region table for sample 5 : DFD\_001**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,404	187.9	61	518	68.2	176.90	712.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : DFD\_065**

Number of peaks found: 1                      Corr. Area 1: 188.0  
 Noise: 0.1

**Peak table for sample 6 : DFD\_065**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	64.30	1,183.9	
3	10,380	75.00	10.9	Upper Marker

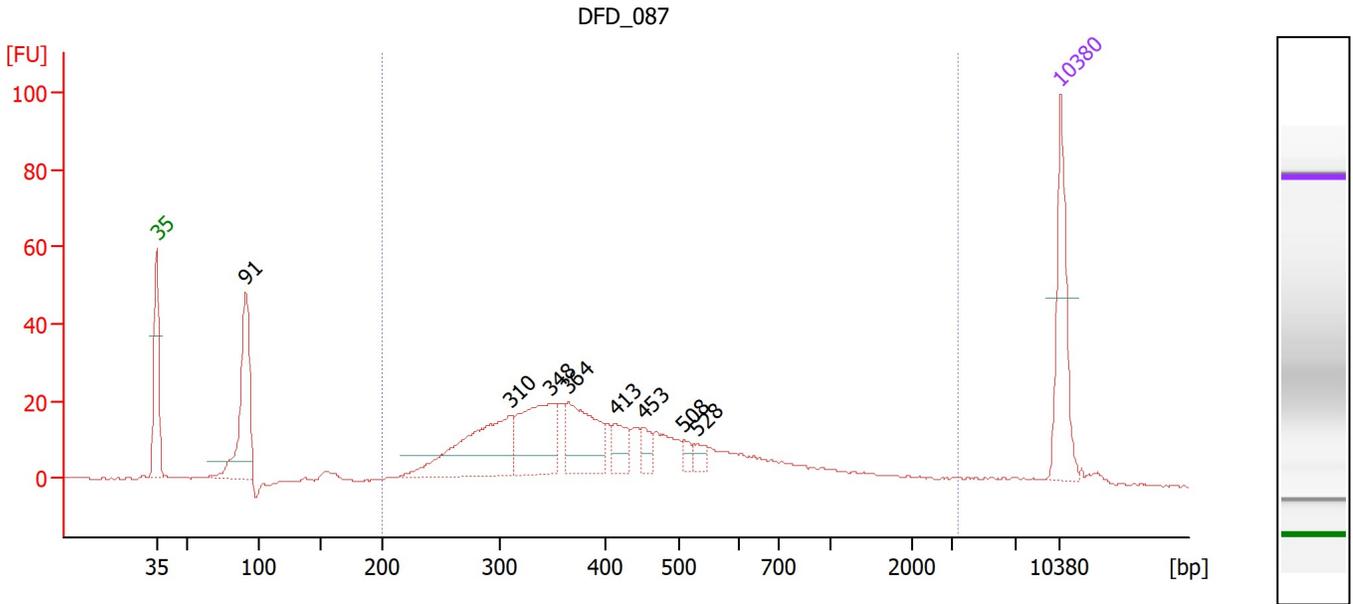
**Region table for sample 6 : DFD\_065**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	4,342	188.0	69	729	87.3	205.11	728.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : DFD\_087**

Number of peaks found: 8                      Corr. Area 1: 509.4  
 Noise: 0.2

**Peak table for sample 7 : DFD\_087**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	91	170.78	2,858.6	
3	310	152.08	744.3	
4	348	115.35	502.2	
5	364	92.60	384.9	
6	413	28.77	105.5	
7	453	15.79	52.8	
8	508	10.67	31.8	
9	528	12.12	34.7	
10	10,380	75.00	10.9	Upper Marker

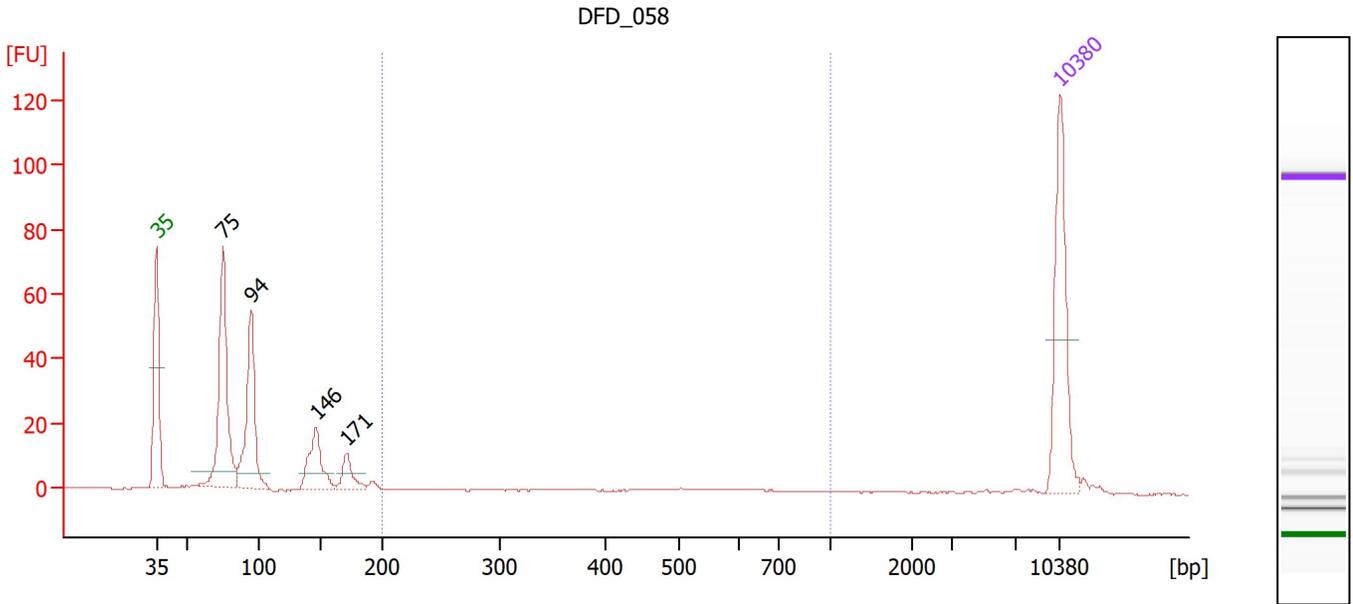
**Region table for sample 7 : DFD\_087**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	3,420	509.4	81	505	76.7	739.30	2,957.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : DFD\_058**

Number of peaks found: 4                      Corr. Area 1: 20.2  
 Noise: 0.2

**Peak table for sample 8 : DFD\_058**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	75	162.73	3,304.0	
3	94	120.37	1,935.4	
4	146	54.65	566.6	
5	171	24.12	213.5	
6	10,380	75.00	10.9	Upper Marker

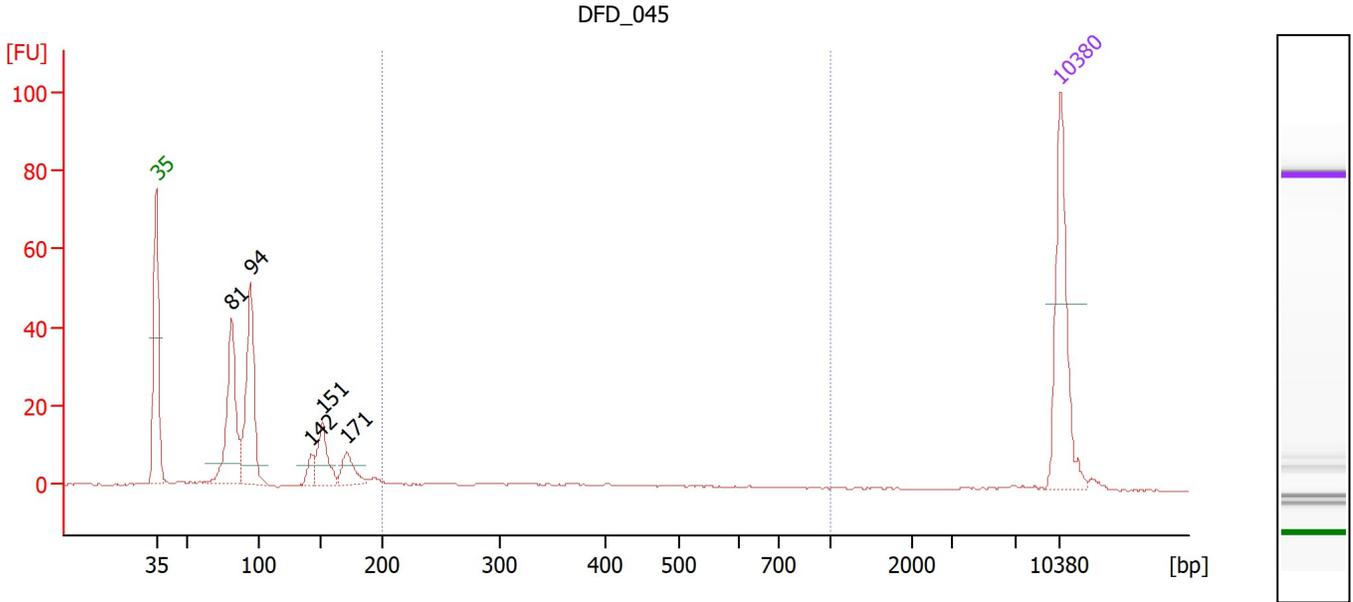
**Region table for sample 8 : DFD\_058**

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	20.2	7	505	33.5	20.43	73.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : DFD\_045**

Number of peaks found: 5                      Corr. Area 1: 37.0  
 Noise: 0.1

**Peak table for sample 9 : DFD\_045**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	116.61	2,187.0	
3	94	125.82	2,038.8	
4	142	14.57	155.1	
5	151	40.76	408.1	
6	171	24.66	218.2	
7	10,380	75.00	10.9	Upper Marker

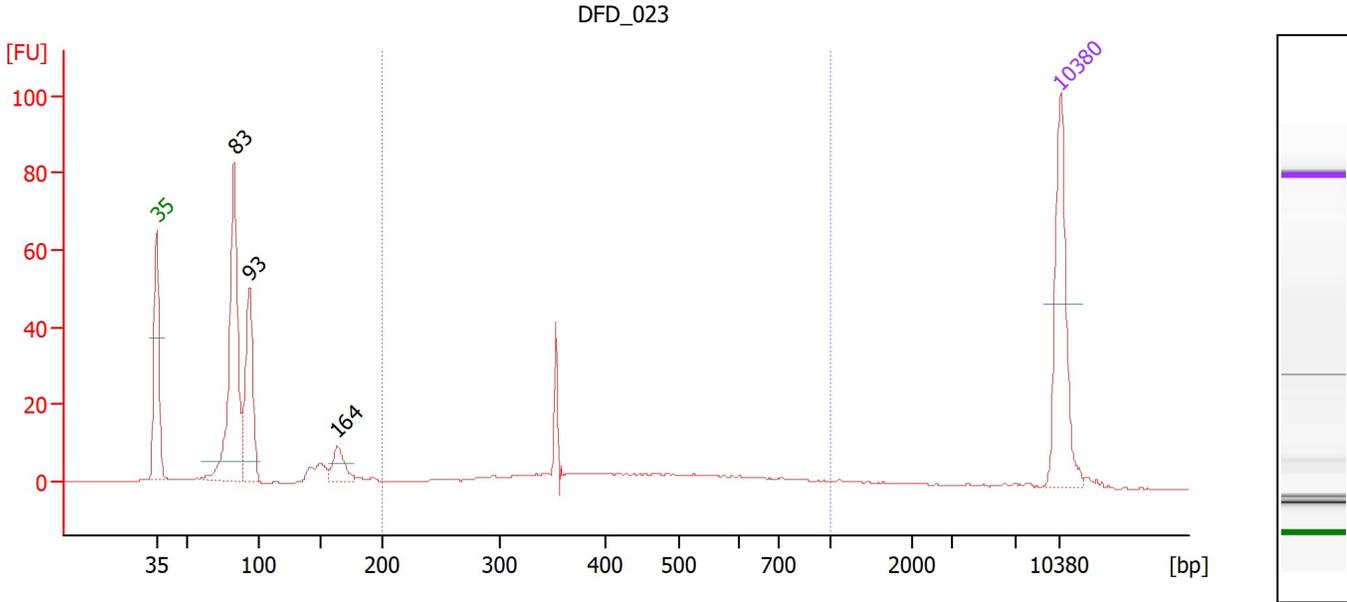
**Region table for sample 9 : DFD\_045**

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	37.0	14	416	41.2	47.37	211.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : DFD\_023**

Number of peaks found: 3                      Corr. Area 1: 114.3  
 Noise: 0.2

**Peak table for sample 10 : DFD\_023**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	83	215.68	3,957.6	
3	93	114.75	1,873.6	
4	164	27.62	255.9	
5	10,380	75.00	10.9	Upper Marker

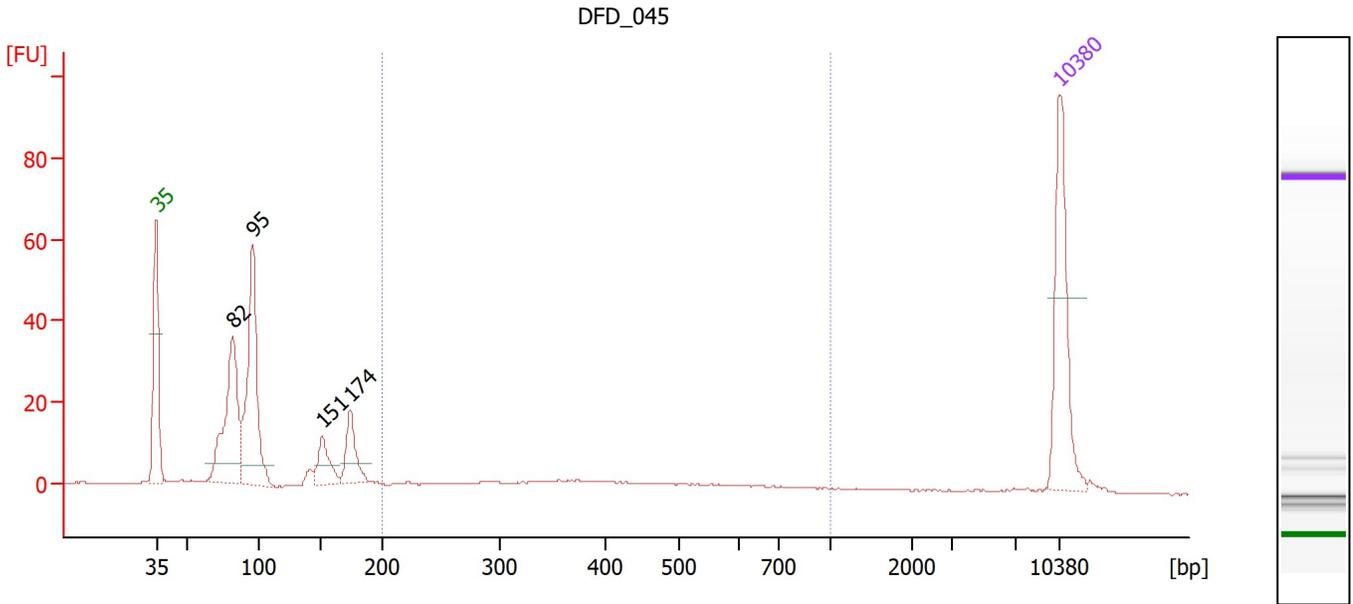
**Region table for sample 10 : DFD\_023**

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	114.3	30	455	36.3	142.93	560.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : DFD\_045**

Number of peaks found: 4                      Corr. Area 1: 40.9  
 Noise: 0.1

**Peak table for sample 11 : DFD\_045**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	82	137.03	2,544.3	
3	95	165.25	2,634.4	
4	151	33.41	335.2	
5	174	38.73	337.9	
6	10,380	75.00	10.9	Upper Marker

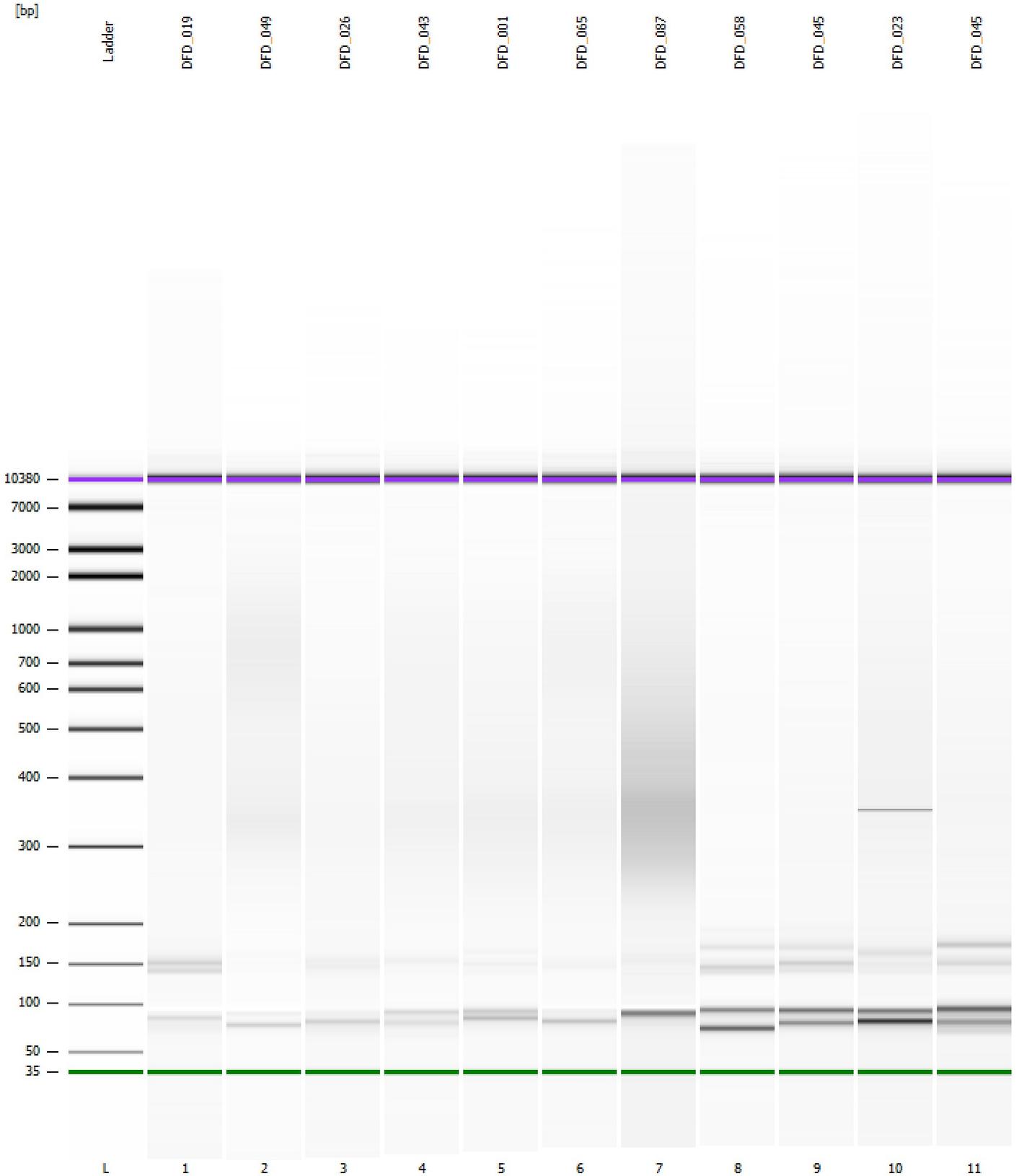
**Region table for sample 11 : DFD\_045**

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	40.9	14	427	35.4	49.89	206.6	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
Modified: 1/25/2024 1:10:50 PM

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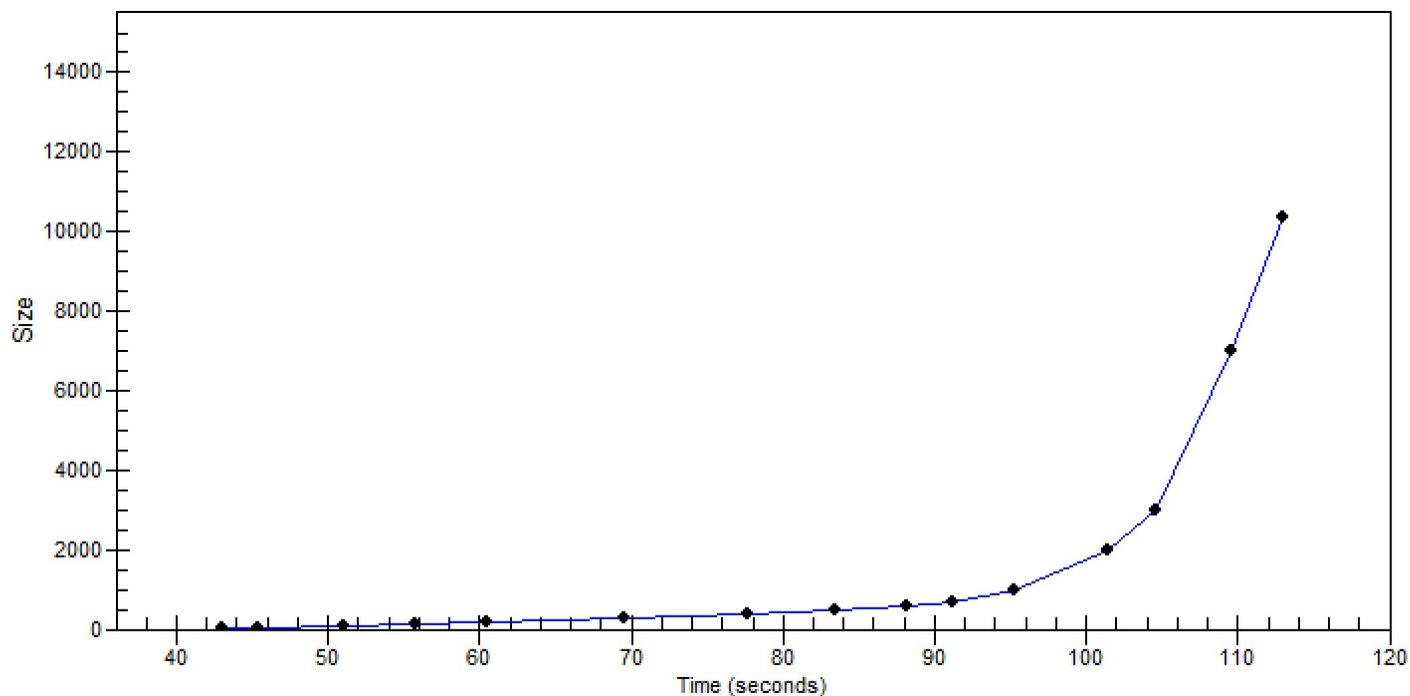


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Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad

Created: 1/25/2024 12:11:26 PM  
Modified: 1/25/2024 1:10:50 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...Bioanalyzer1\_High Sensitivity DNA Assay\_DAG\_02\_01252024.xad  
 Created: 1/25/2024 12:11:26 PM  
 Modified: 1/25/2024 1:10:50 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 12:51:55 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_002.xad)		Instrument	Run		1/25/2024 12:11:31 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/25/2024 12:11:31 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/25/2024 12:11:31 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/25/2024 12:11:31 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/25/2024 12:11:31 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/25/2024 12:11:31 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/25/2024 12:11:31 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB