

Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-11-17\_001.xad

Created: 11/17/2020 5:12:58 PM  
Modified: 11/17/2020 5:56:19 PM

**Electrophoresis File Run Summary**

Instrument Information:

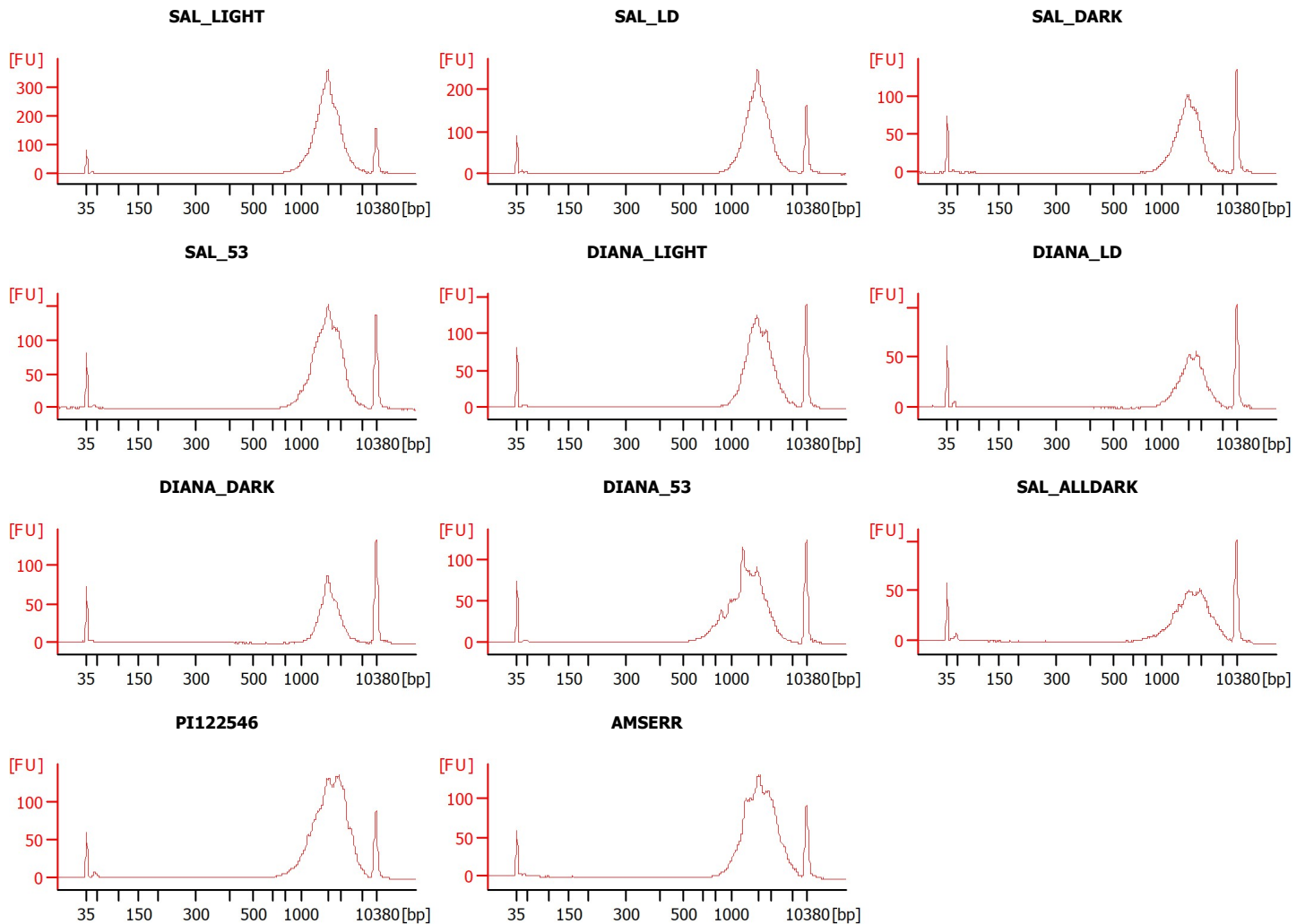
Instrument Name: DE34903152                      Firmware: C.01.069  
Serial#: DE34903152                                Type: G2938C

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
SAL_LIGHT		<input type="checkbox"/>	✓			
SAL_LD		<input type="checkbox"/>	✓			
SAL_DARK		<input type="checkbox"/>	✓			
SAL_53		<input type="checkbox"/>	✓			
DIANA_LIGHT		<input type="checkbox"/>	✓			
DIANA_LD		<input type="checkbox"/>	✓			
DIANA_DARK		<input type="checkbox"/>	✓			
DIANA_53		<input type="checkbox"/>	✓			
SAL_ALLDARK		<input type="checkbox"/>	✓			
PI122546		<input type="checkbox"/>	✓			
AMSERR		<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

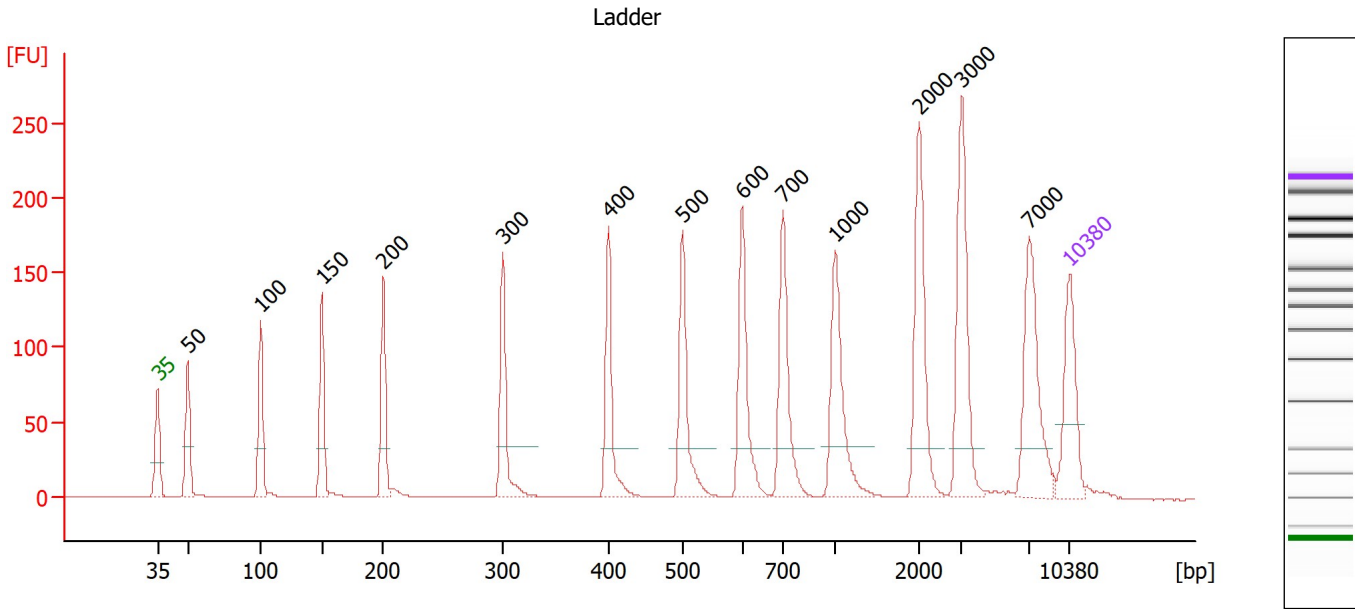
**Ladder**

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

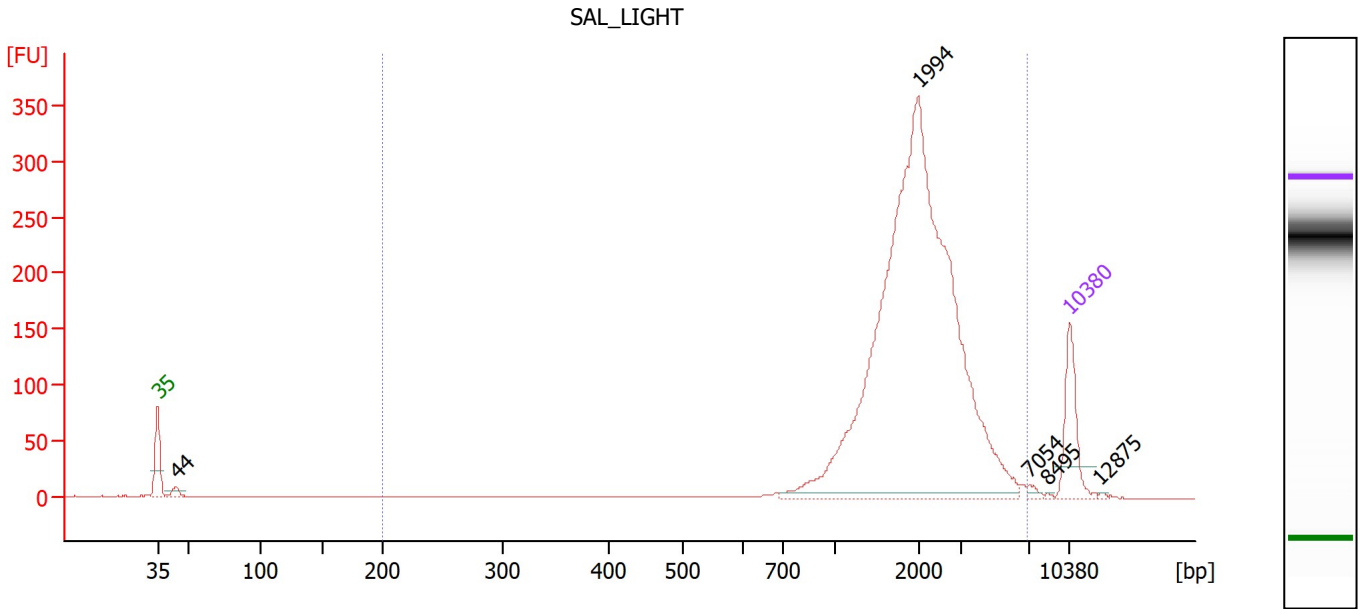
**Peak table for Ladder**

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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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : SAL\_LIGHT**

Number of peaks found: 5                      Corr. Area 1: 2,230.0  
 Noise: 0.2

**Peak table for sample 1 : SAL\_LIGHT**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	14.20	489.5	
3	1,994	1,197.07	909.8	
4	7,054	6.27	1.3	
5	8,495	1.67	0.3	
6	10,380	75.00	10.9	Upper Marker
7	12,875	0.00	0.0	

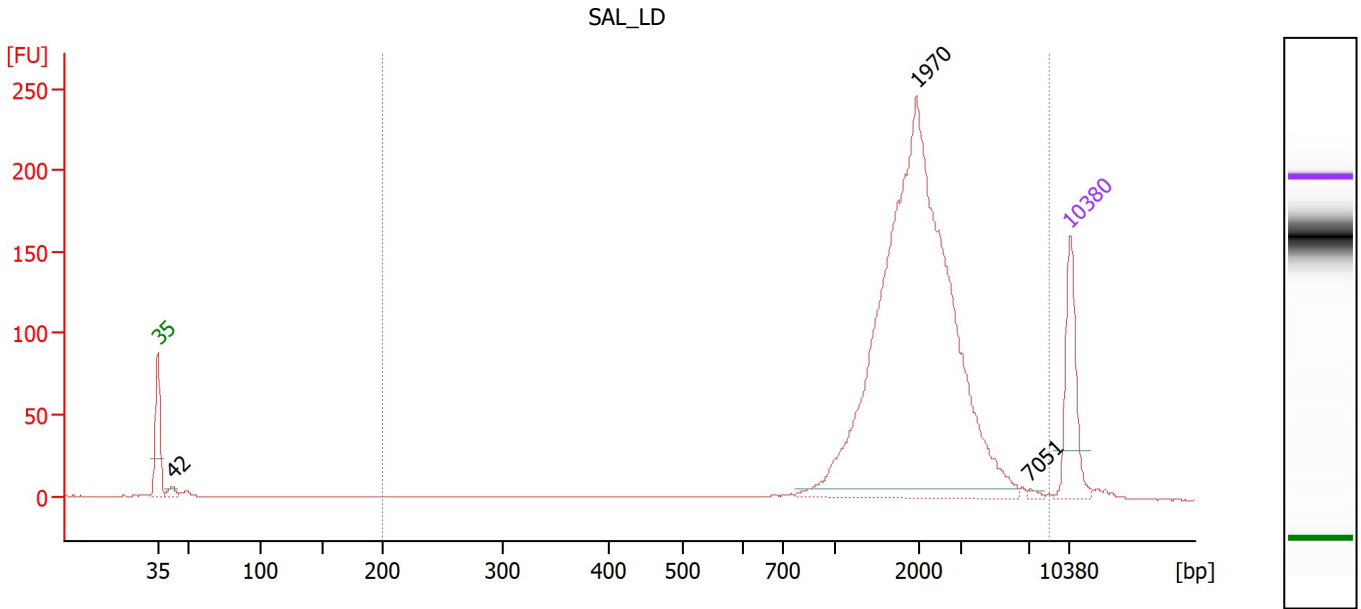
**Region table for sample 1 : SAL\_LIGHT**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	6,925	2,230.0	97	2,187	42.9	1,274.88	1,092.3	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : SAL\_LD**

Number of peaks found: 3                      Corr. Area 1: 1,489.6  
 Noise: 0.2

**Peak table for sample 2 : SAL\_LD**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	11.00	395.9	
3	1,970	812.99	625.4	
4	7,051	3.14	0.7	
5	10,380	75.00	10.9	Upper Marker

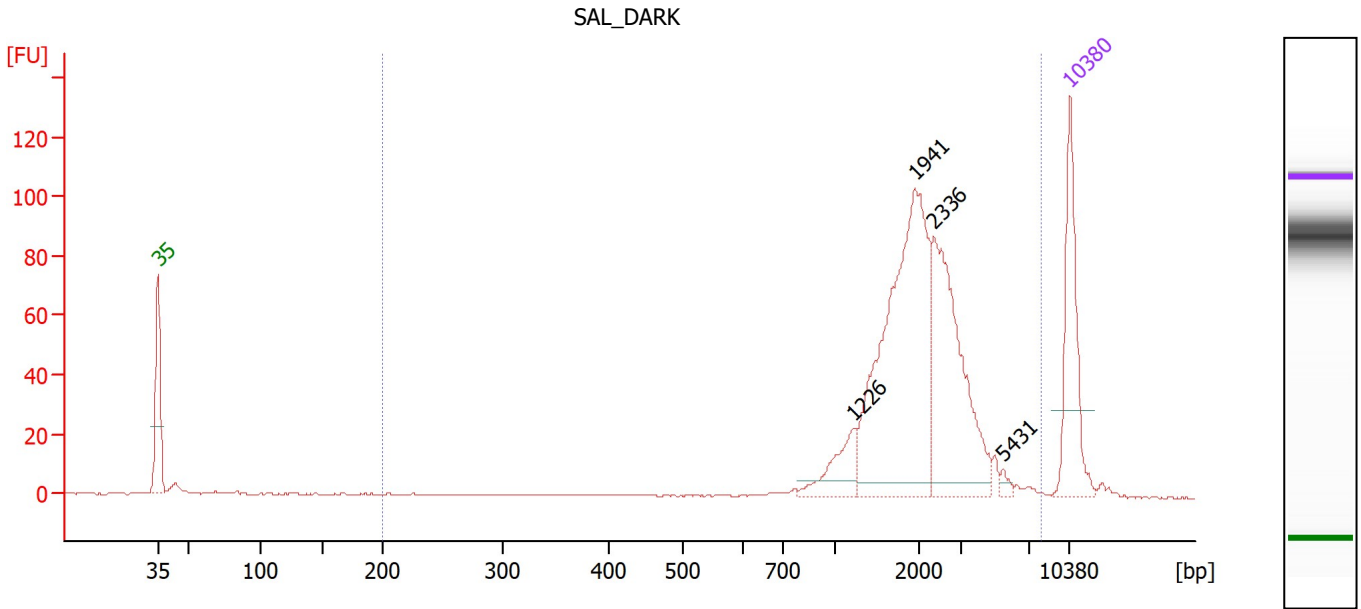
**Region table for sample 2 : SAL\_LD**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	8,617	1,489.6	97	2,178	44.6	876.56	775.1	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : SAL\_DARK**

Number of peaks found: 4                      Corr. Area 1: 700.3  
 Noise: 0.2

**Peak table for sample 3 : SAL\_DARK**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,226	35.30	43.6	
3	1,941	251.31	196.2	
4	2,336	154.91	100.5	
5	5,431	4.39	1.2	
6	10,380	75.00	10.9	Upper Marker

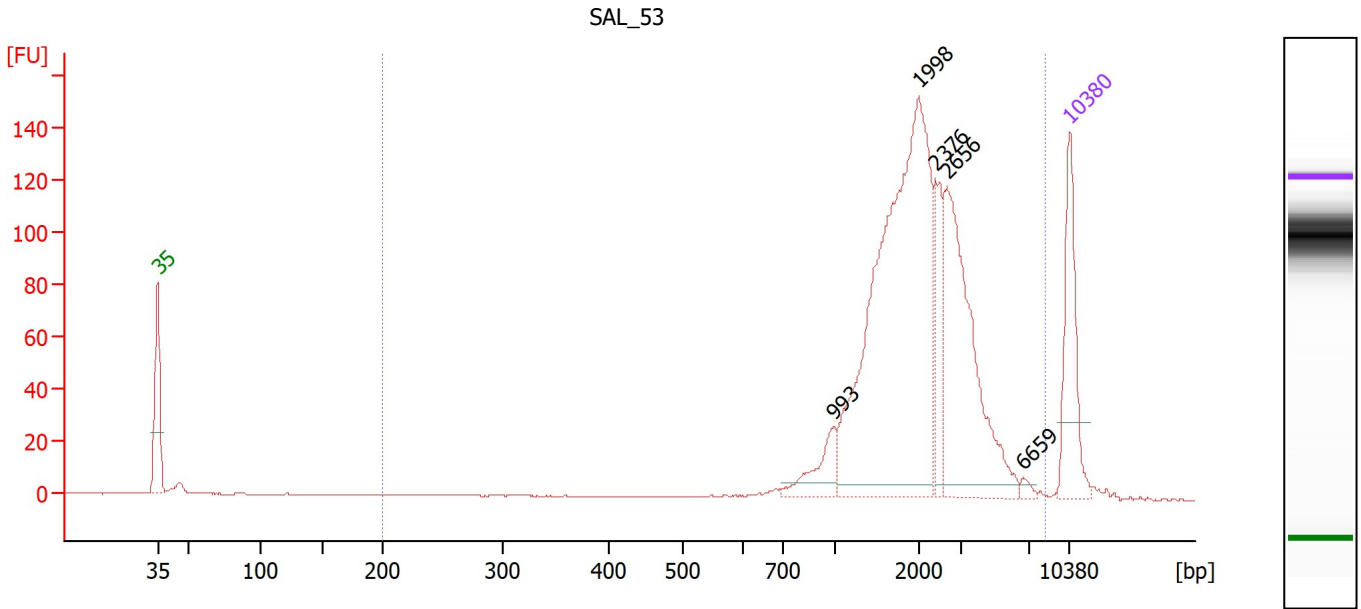
**Region table for sample 3 : SAL\_DARK**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	7,965	700.3	96	2,207	44.2	483.79	426.2	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : SAL\_53**

Number of peaks found: 5                      Corr. Area 1: 1,133.4  
 Noise: 0.2

**Peak table for sample 4 : SAL\_53**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	993	36.00	54.9	
3	1,998	436.71	331.1	
4	2,376	51.96	33.1	
5	2,656	187.83	107.2	
6	6,659	4.50	1.0	
7	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : SAL\_53**

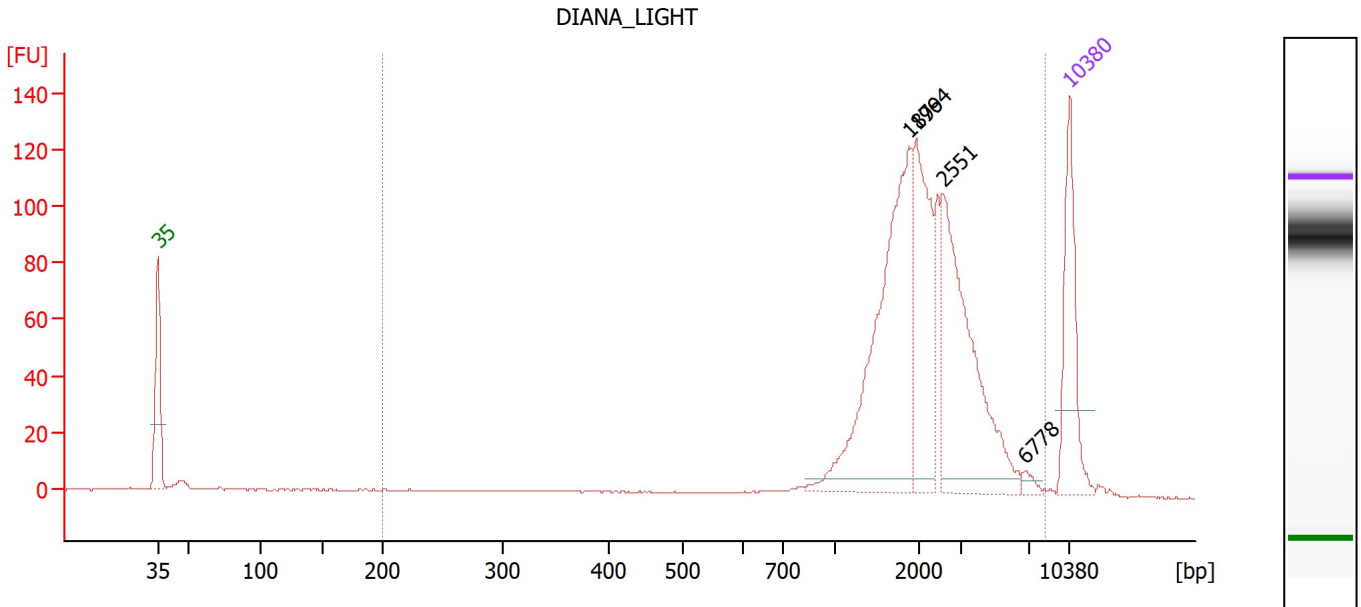
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	8,327	1,133.4	99	2,244	45.1	749.38	596.5	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-11-17\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : DIANA LIGHT**

Number of peaks found: 4                      Corr. Area 1: 928.9  
 Noise: 0.2

**Peak table for sample 5 : DIANA LIGHT**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,879	242.29	195.4	
3	1,964	119.84	92.4	
4	2,551	182.05	108.1	
5	6,778	5.48	1.2	
6	10,380	75.00	10.9	Upper Marker

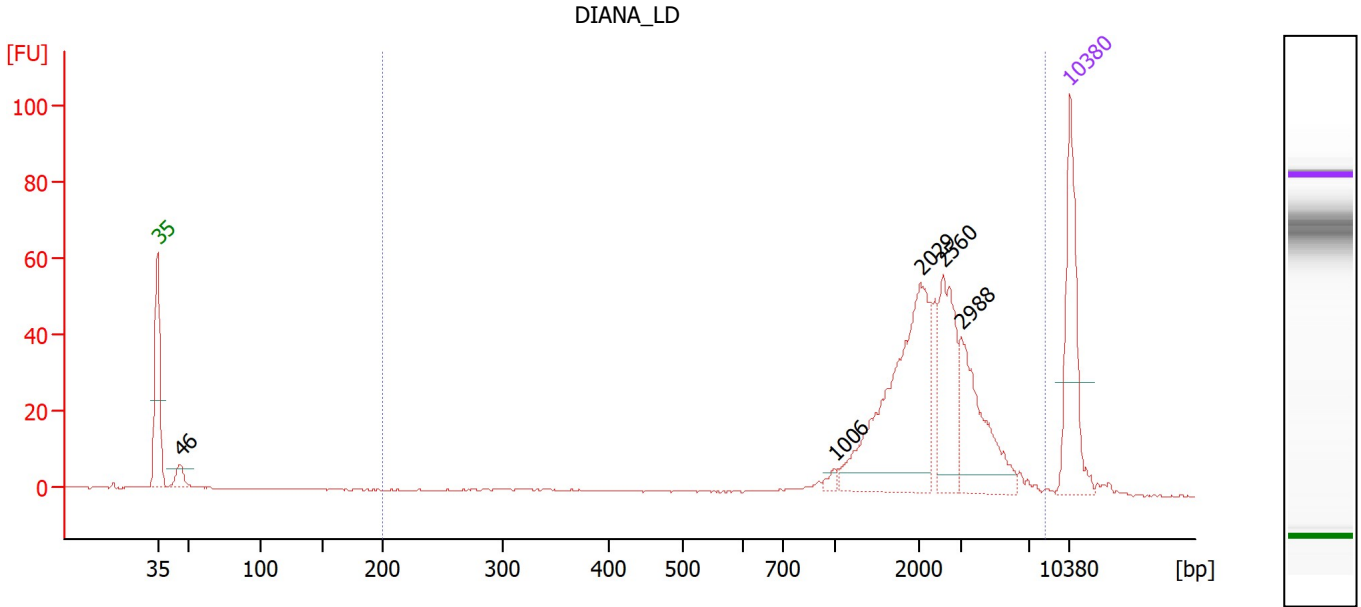
**Region table for sample 5 : DIANA LIGHT**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	8,294	928.9	97	2,345	48.4	637.52	570.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-11-17\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : DIANA\_LD**

Number of peaks found: 5                      Corr. Area 1: 409.2  
 Noise: 0.2

**Peak table for sample 6 : DIANA\_LD**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	18.10	597.5	
3	1,006	5.12	7.7	
4	2,029	171.90	128.4	
5	2,560	70.99	42.0	
6	2,988	73.25	37.1	
7	10,380	75.00	10.9	Upper Marker

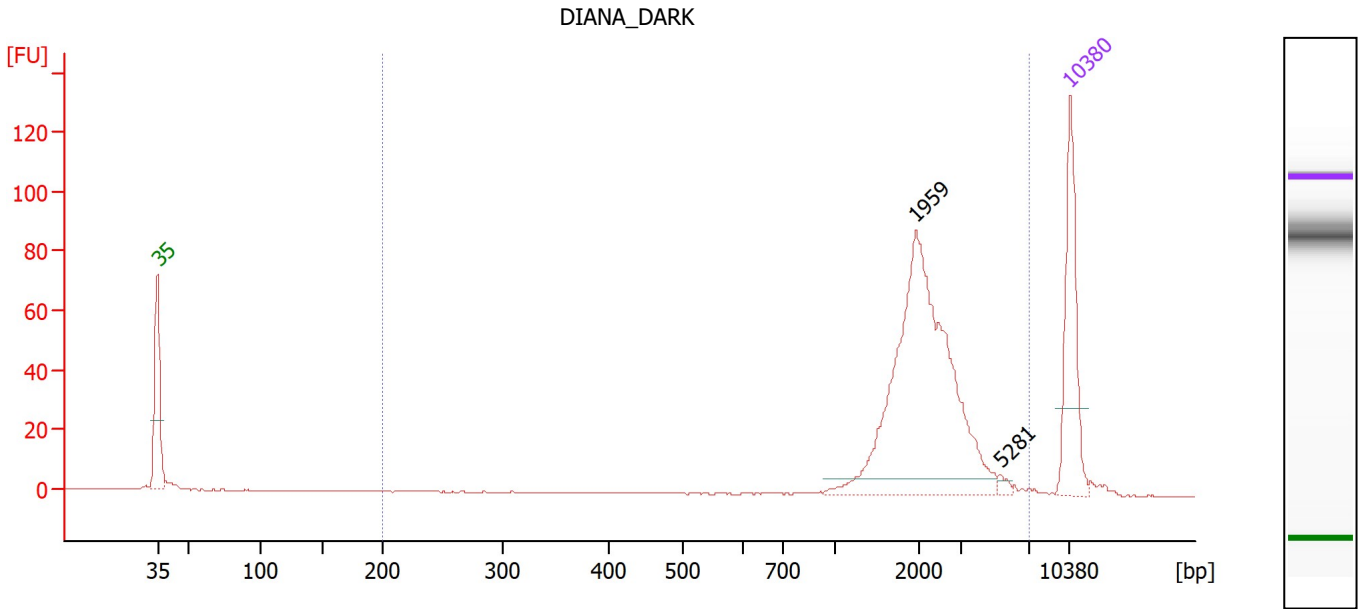
**Region table for sample 6 : DIANA\_LD**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	8,257	409.2	95	2,496	47.2	382.65	307.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-11-17\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : DIANA\_DARK**

Number of peaks found: 2                      Corr. Area 1: 422.1  
 Noise: 0.2

**Peak table for sample 7 : DIANA\_DARK**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,959	286.48	221.5	
3	5,281	3.92	1.1	
4	10,380	75.00	10.9	Upper Marker

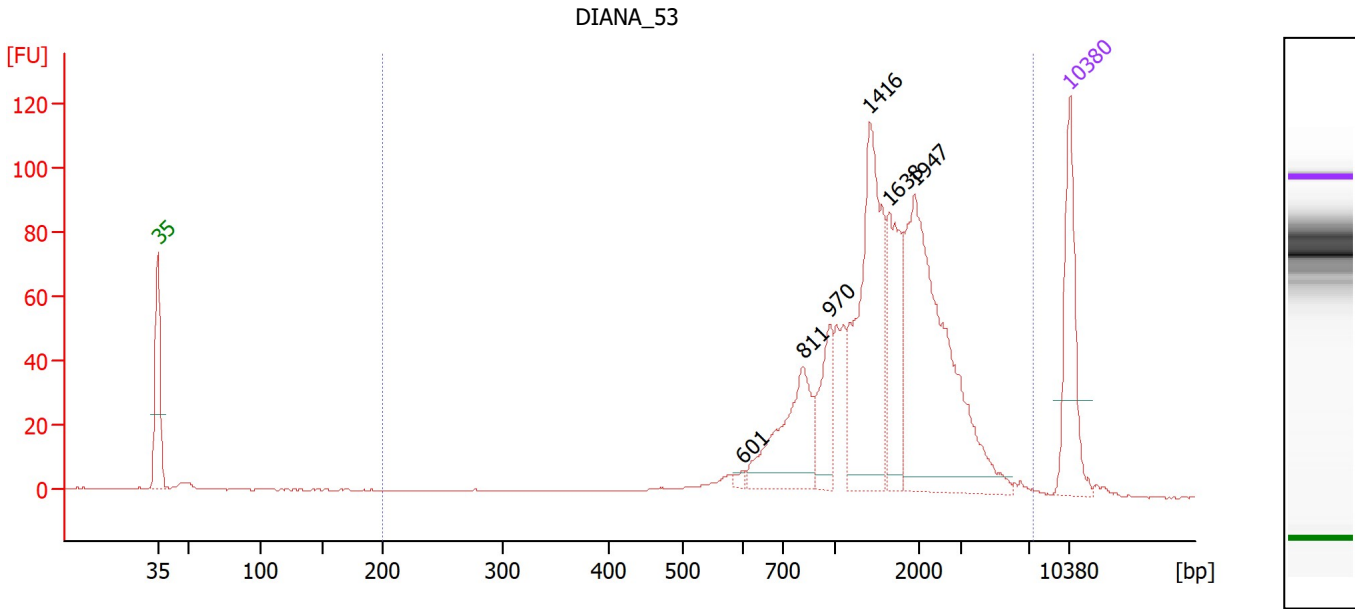
**Region table for sample 7 : DIANA\_DARK**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	6,979	422.1	95	2,308	37.8	304.00	231.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-11-17\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : DIANA 53**

Number of peaks found: 6                      Corr. Area 1: 962.6  
 Noise: 0.2

**Peak table for sample 8 : DIANA 53**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	601	4.18	10.5	
3	811	102.74	192.0	
4	970	51.24	80.0	
5	1,416	187.83	200.9	
6	1,638	83.83	77.6	
7	1,947	245.84	191.3	
8	10,380	75.00	10.9	Upper Marker

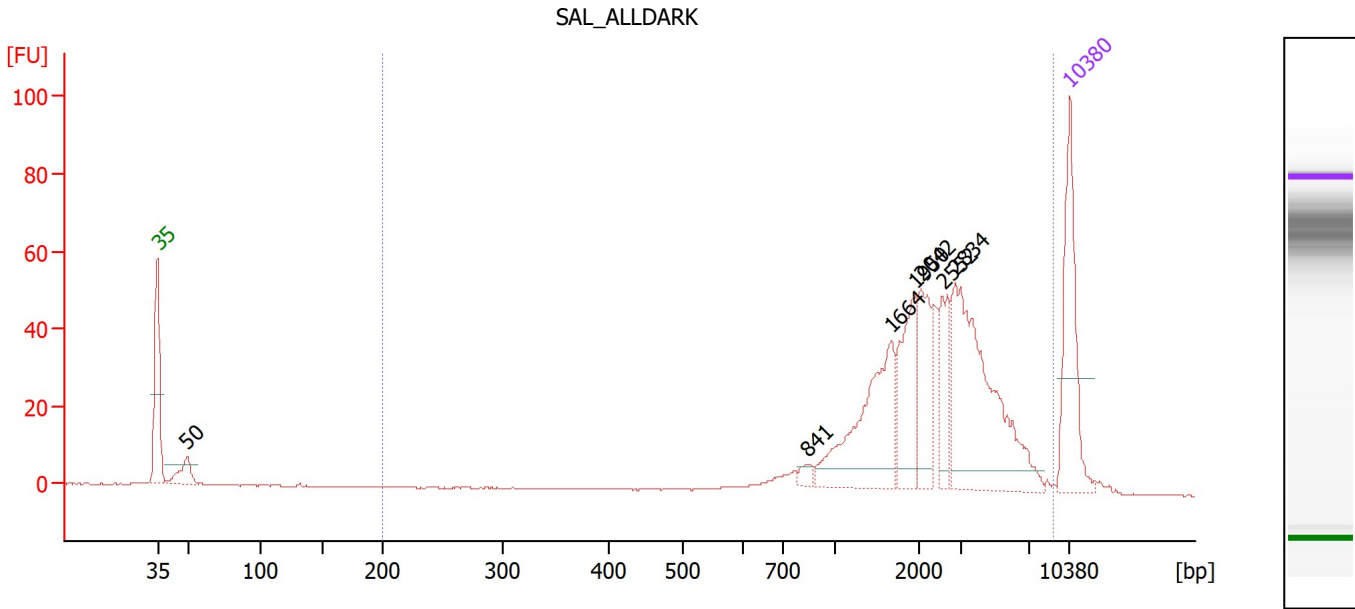
**Region table for sample 8 : DIANA 53**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	7,340	962.6	98	1,712	52.8	776.77	919.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-11-17\_001.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : SAL\_ALLDARK**

Number of peaks found: 7                      Corr. Area 1: 517.8  
 Noise: 0.2

**Peak table for sample 9 : SAL\_ALLDARK**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	26.17	800.4	
3	841	6.55	11.8	
4	1,664	106.62	97.1	
5	1,950	58.41	45.4	
6	2,042	52.32	38.8	
7	2,552	35.93	21.3	
8	2,834	159.91	85.5	
9	10,380	75.00	10.9	Upper Marker

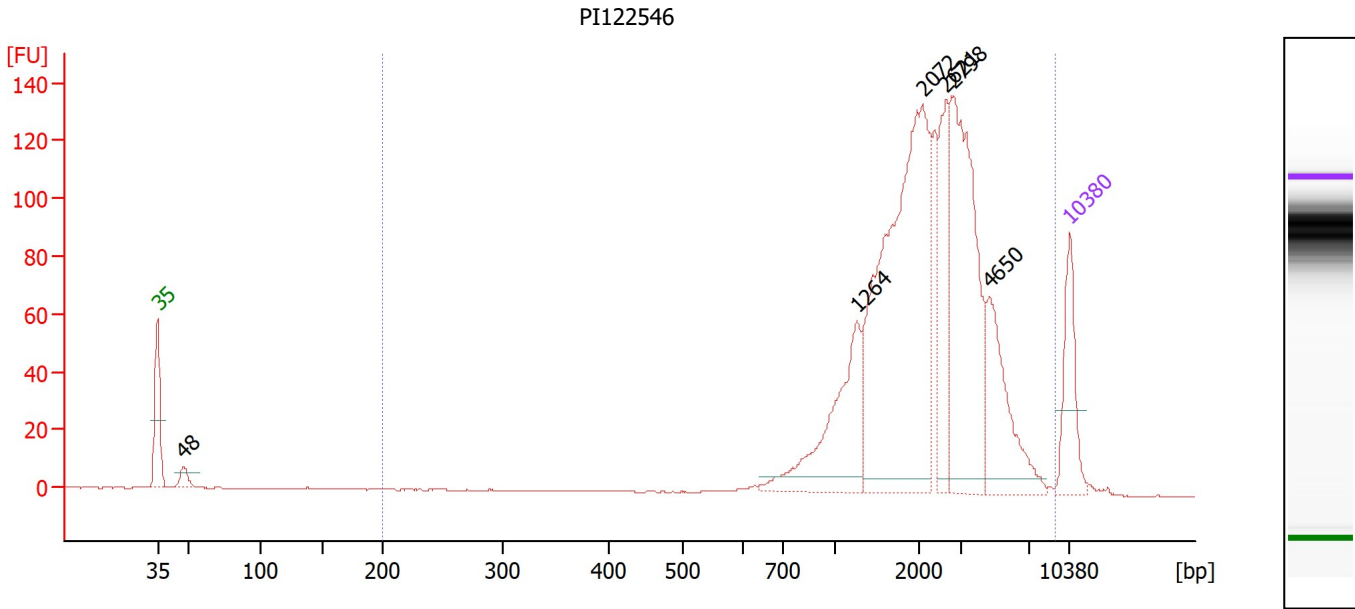
**Region table for sample 9 : SAL\_ALLDARK**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	9,015	517.8	96	2,674	56.2	486.73	376.8	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : PI122546**

Number of peaks found: 6                      Corr. Area 1: 1,275.2  
 Noise: 0.1

**Peak table for sample 10 : PI122546**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	22.73	721.1	
3	1,264	177.29	212.5	
4	2,072	518.09	378.8	
5	2,621	118.16	68.3	
6	2,798	292.54	158.4	
7	4,650	129.87	42.3	
8	10,380	75.00	10.9	Upper Marker

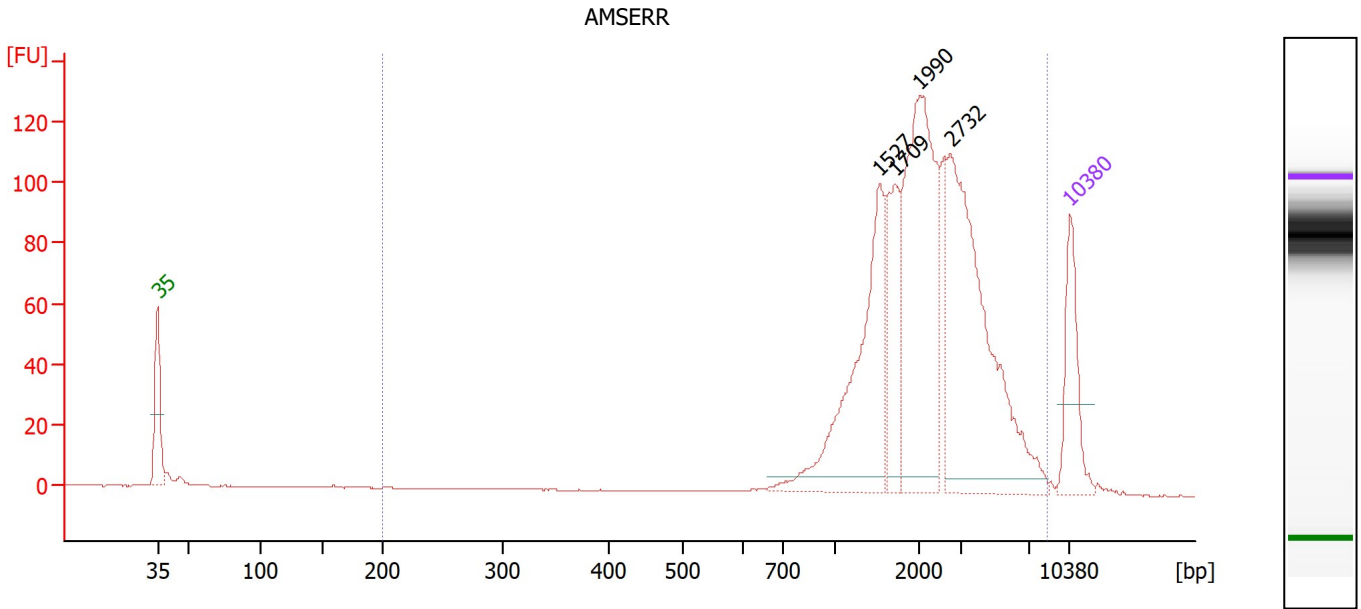
**Region table for sample 10 : PI122546**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	9,215	1,275.2	98	2,525	52.5	1,360.70	1,092.9	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : AMSERR**

Number of peaks found: 4                      Corr. Area 1: 1,126.1  
 Noise: 0.1

**Peak table for sample 11 : AMSERR**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,527	243.70	241.8	
3	1,709	102.34	90.7	
4	1,990	295.51	224.9	
5	2,732	341.85	189.6	
6	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 : AMSERR**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	8,572	1,126.1	98	2,531	53.2	1,066.17	815.6	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		11/17/2020 5:54:17 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-11-17\Bioanalyze r1_High Sensitivity DNA Assay_2020-11-17_001.xad)		Instrument	Run		11/17/2020 5:13:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/17/2020 5:13:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/17/2020 5:13:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/17/2020 5:13:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/17/2020 5:13:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/17/2020 5:13:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/17/2020 5:13:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB