

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-22\2017-06-22\_001.xad

Created: 6/22/2017 9:33:59 AM  
Modified: 6/22/2017 10:24:14 AM

### Electrophoresis File Run Summary

Instrument Information:

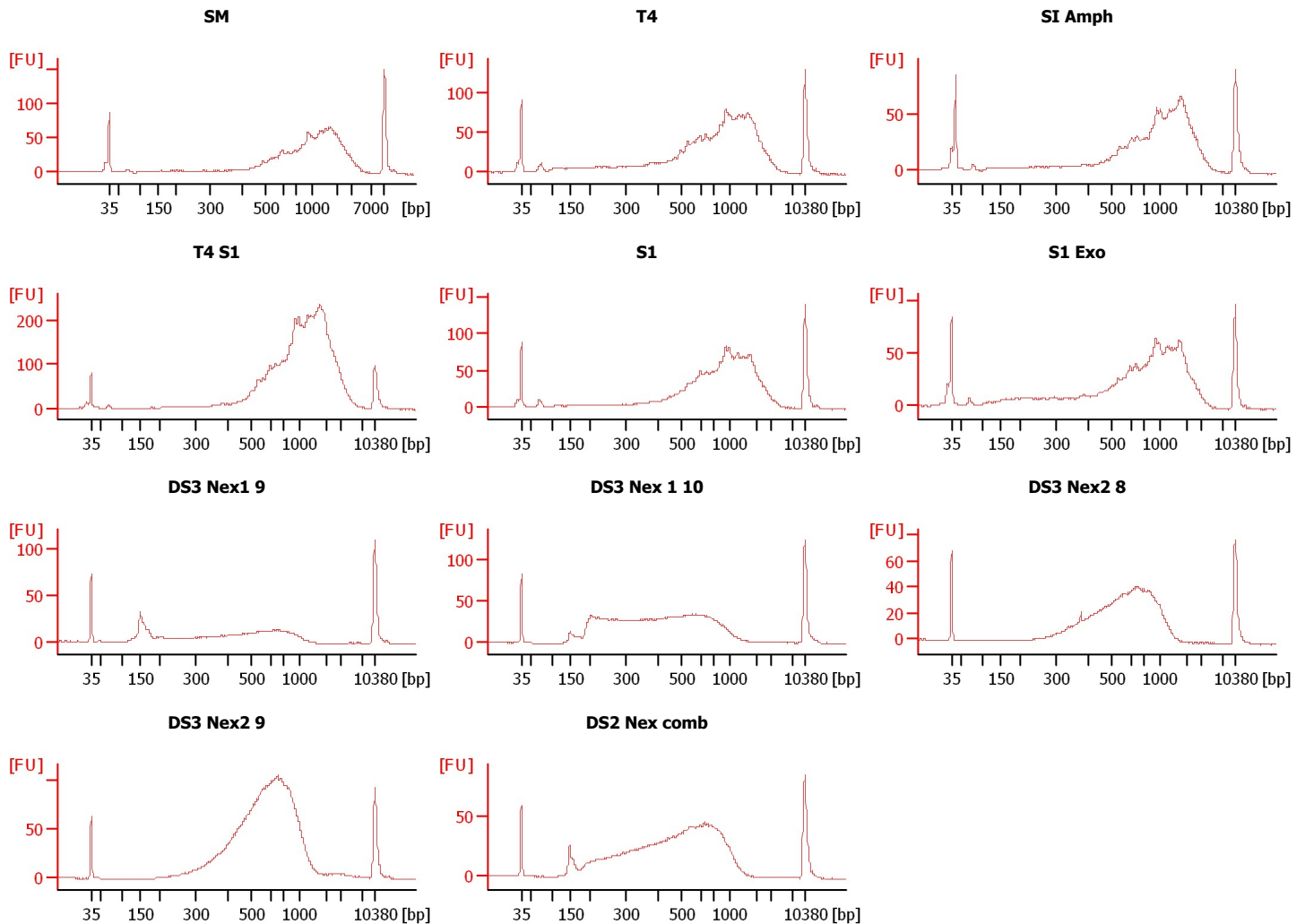
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\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
SM		<input type="checkbox"/>	✓			
T4		<input type="checkbox"/>	✓			
SI Amph		<input type="checkbox"/>	✓			
T4 S1		<input type="checkbox"/>	✓			
S1		<input type="checkbox"/>	✓			
S1 Exo		<input type="checkbox"/>	✓			
DS3 Nex1 9		<input type="checkbox"/>	✓			
DS3 Nex 1 10		<input type="checkbox"/>	✓			
DS3 Nex2 8		<input type="checkbox"/>	✓			
DS3 Nex2 9		<input type="checkbox"/>	✓			
DS2 Nex comb		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

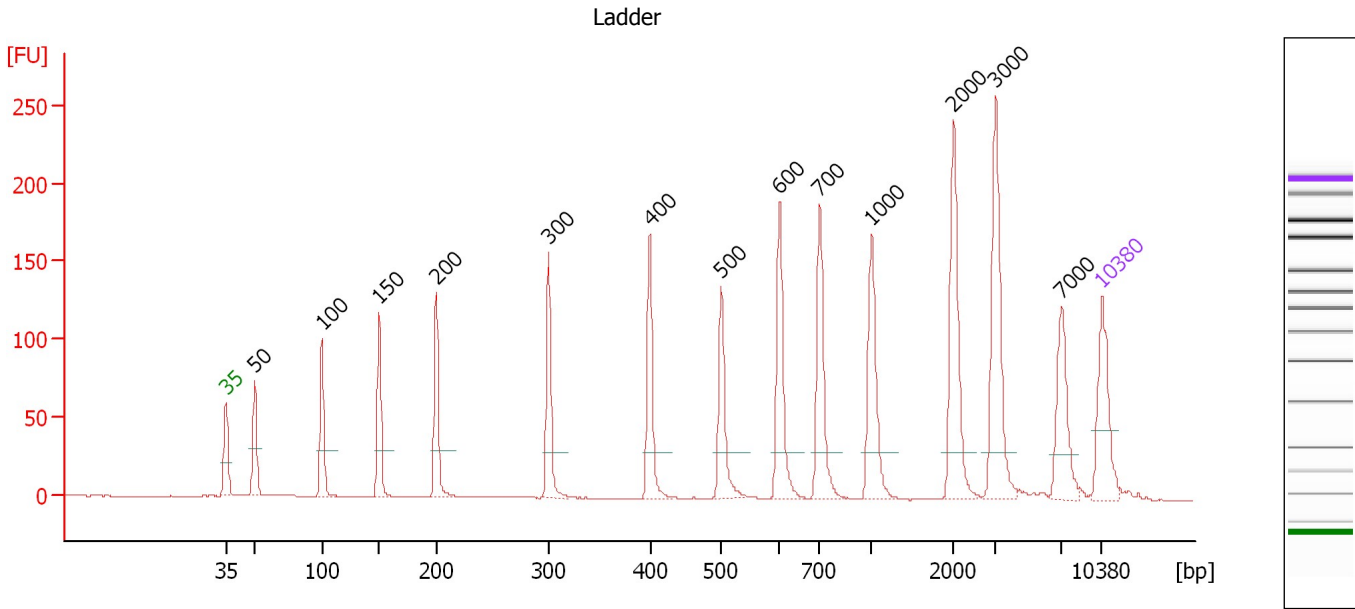
**Reagent Kit Lot #**

**Chip Comments :**

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

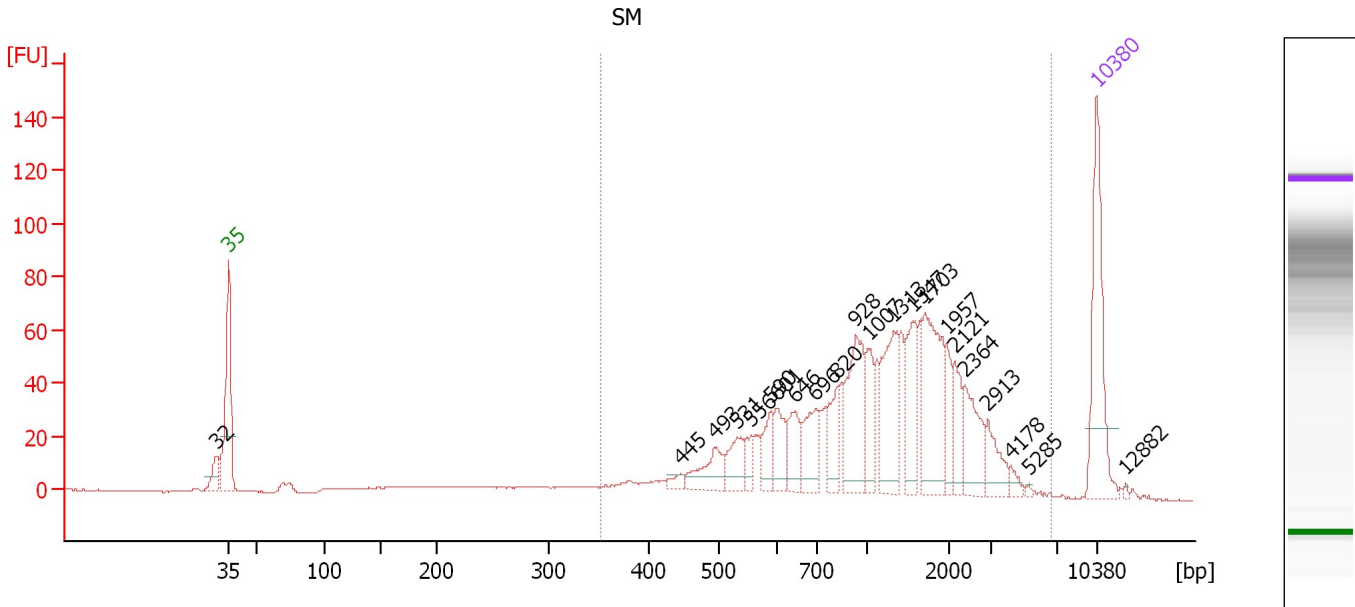
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.30
3	100	150.00	2,272.7	Ladder Peak	50.67
4	150	150.00	1,515.2	Ladder Peak	55.27
5	200	150.00	1,136.4	Ladder Peak	59.79
6	300	150.00	757.6	Ladder Peak	68.78
7	400	150.00	568.2	Ladder Peak	76.87
8	500	150.00	454.5	Ladder Peak	82.58
9	600	150.00	378.8	Ladder Peak	87.22
10	700	150.00	324.7	Ladder Peak	90.46
11	1,000	150.00	227.3	Ladder Peak	94.55
12	2,000	150.00	113.6	Ladder Peak	101.16
13	3,000	150.00	75.8	Ladder Peak	104.52
14	7,000	150.00	32.5	Ladder Peak	109.80
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : SM**

Number of peaks found: 22                      Corr. Area 1: 1,101.2  
 Noise: 0.2

**Peak table for sample 1 : SM**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.01
2	35	125.00	5,411.3	Lower Marker	43.00
3	445	7.08	24.1		79.46
4	493	32.70	100.5		82.17
5	531	27.87	79.5		84.02
6	556	14.89	40.6		85.18
7	590	22.08	56.7		86.77
8	601	27.02	68.2		87.24
9	646	28.76	67.5		88.71
10	696	38.63	84.1		90.34
11	820	31.22	57.7		92.10
12	928	70.01	114.4		93.57
13	1,007	29.48	44.4		94.60
14	1,313	60.83	70.2		96.62
15	1,547	40.66	39.8		98.17
16	1,703	77.33	68.8		99.20
17	1,957	19.12	14.8		100.87
18	2,121	26.26	18.8		101.56
19	2,364	37.22	23.9		102.38
20	2,913	22.14	11.5		104.23
21	4,178	5.50	2.0		106.08
22	5,285	1.29	0.4		107.54
23	10,380	75.00	10.9	Upper Marker	113.00
24	12,882	0.00	0.0		115.36


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**Electropherogram Summary Continued ...**

... Region table for sample 1 :

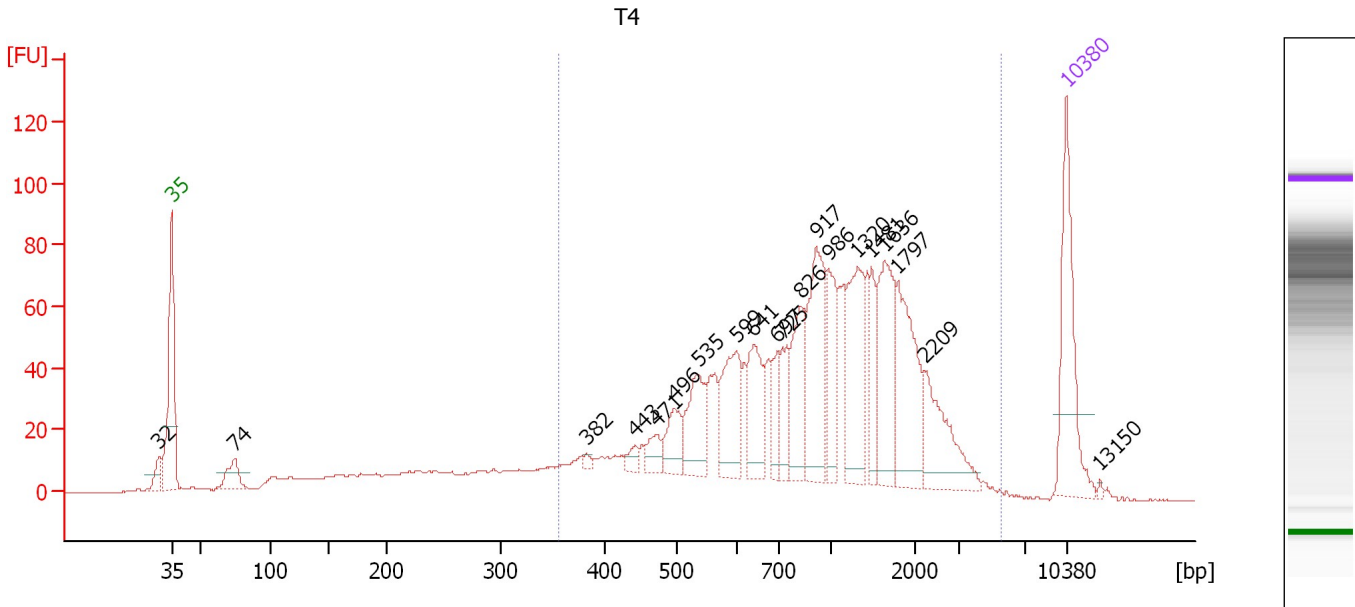
SM

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
352	6,684	1,361	1,101.2	1,329.1	 790.30	90	62.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : T4**

Number of peaks found: 20                      Corr. Area 1: 1,445.5  
 Noise: 0.2

**Peak table for sample 2 : T4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.02
2	35	125.00	5,411.3	Lower Marker	43.00
3	74	28.54	580.7		47.93
4	382	4.23	16.8		75.40
5	443	9.19	31.5		79.31
6	471	16.03	51.6		80.91
7	496	30.82	94.2		82.33
8	535	55.01	155.9		84.19
9	599	63.26	160.1		87.17
10	641	51.09	120.8		88.54
11	697	24.01	52.2		90.36
12	725	32.12	67.1		90.81
13	826	57.23	105.0		92.18
14	917	91.57	151.2		93.42
15	986	48.14	74.0		94.36
16	1,320	76.95	88.3		96.67
17	1,481	28.63	29.3		97.73
18	1,636	74.43	68.9		98.75
19	1,797	79.75	67.2		99.82
20	2,209	56.19	38.5		101.86
21	10,380	75.00	10.9	Upper Marker	113.00
22	13,150	0.00	0.0		115.62

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**Electropherogram Summary Continued ...**

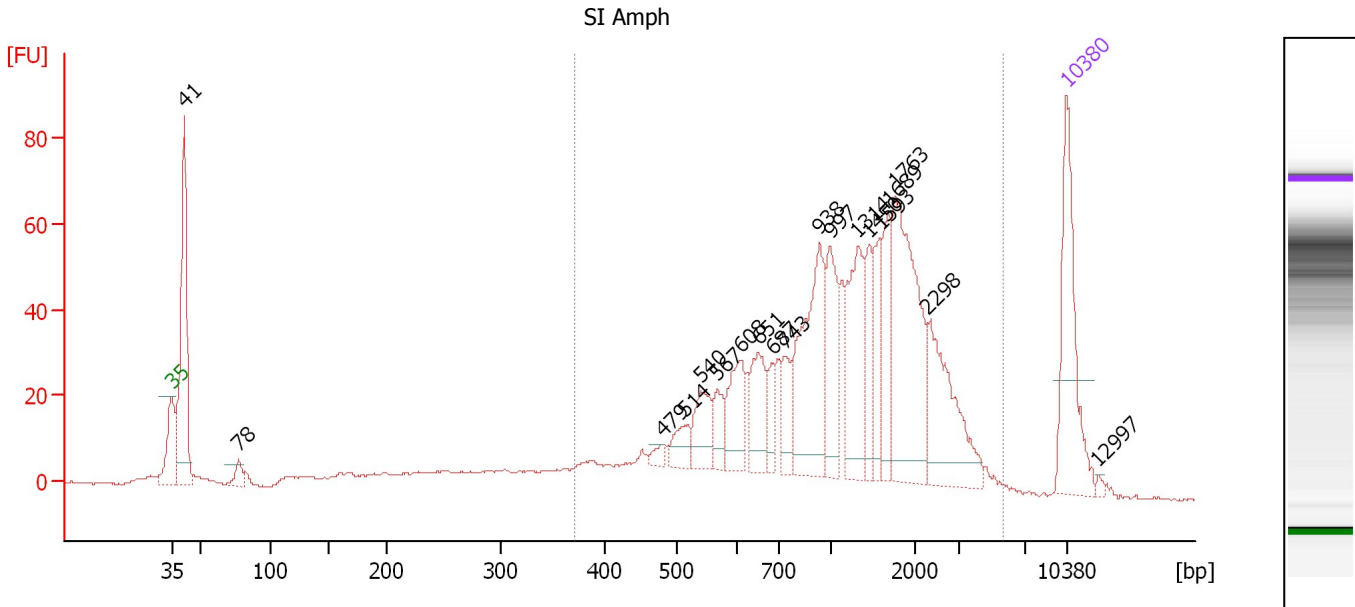
... Region table for sample 2 : T4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
356	5,514	1,157	1,445.5	2,166.4	1,123.78	82	61.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : SI Amph**

Number of peaks found: 19                      Corr. Area 1: 1,050.5  
 Noise: 0.2

**Peak table for sample 3 : SI Amph**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	41	184.05	6,727.1		43.99
3	78	13.65	266.5		48.26
4	479	6.86	21.7		81.37
5	514	18.86	55.6		83.22
6	540	32.58	91.4		84.43
7	567	19.87	53.1		85.69
8	608	41.92	104.4		87.49
9	651	38.89	90.5		88.89
10	687	16.78	37.0		90.06
11	743	25.91	52.9		91.05
12	938	105.58	170.6		93.70
13	997	52.06	79.1		94.51
14	1,314	69.26	79.9		96.62
15	1,450	27.81	29.1		97.52
16	1,593	32.20	30.6		98.47
17	1,689	39.11	35.1		99.10
18	1,763	124.22	106.7		99.59
19	2,298	72.19	47.6		102.16
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,997	0.00	0.0		115.47

**Region table for sample 3 : SI Amph**

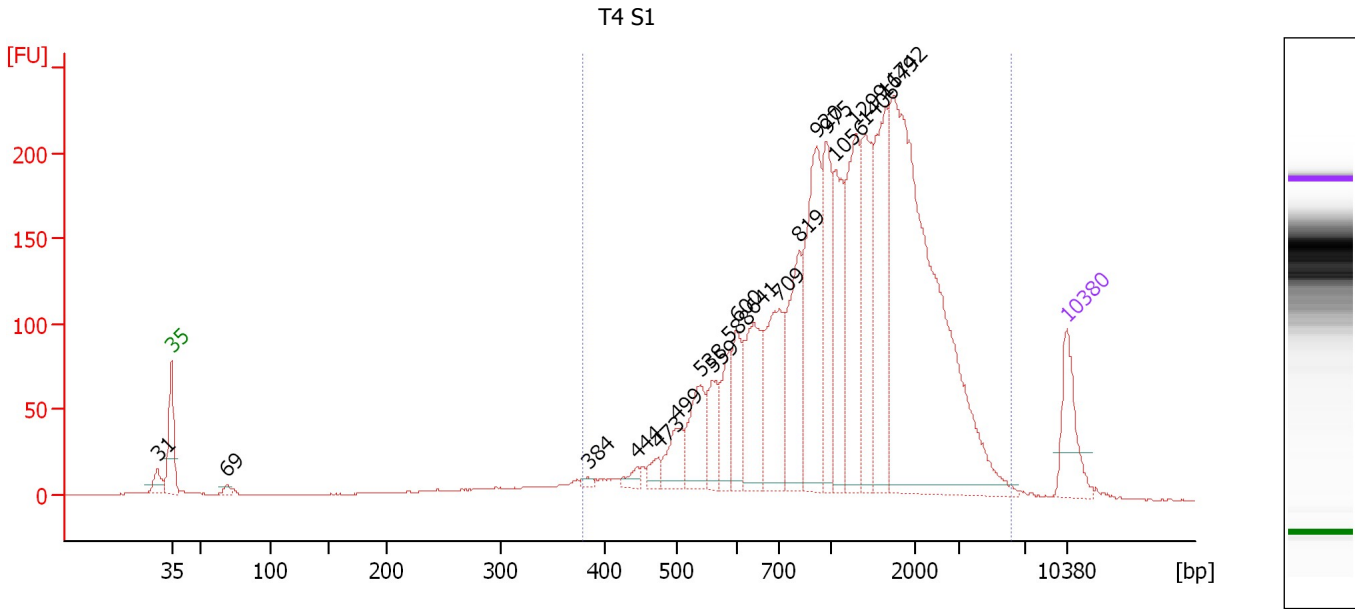
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
371	5,651	1,340	1,050.5	1,603.2	950.01	79	60.0



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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : T4 S1**

Number of peaks found: 20                      Corr. Area 1: 3,562.1  
 Noise: 0.2

**Peak table for sample 4 : T4 S1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.91
2	35	125.00	5,411.3	Lower Marker	43.00
3	69	10.26	225.3		47.34
4	384	8.00	31.6		75.57
5	444	15.54	53.0		79.39
6	473	22.35	71.6		81.04
7	499	60.93	185.1		82.51
8	538	100.26	282.3		84.35
9	559	69.69	188.8		85.34
10	588	68.75	177.2		86.66
11	600	81.62	206.1		87.23
12	641	141.61	334.8		88.55
13	709	188.19	402.4		90.58
14	819	158.24	292.6		92.09
15	920	252.13	415.3		93.46
16	975	147.86	229.7		94.21
17	1,056	150.24	215.6		94.92
18	1,299	192.95	225.1		96.53
19	1,406	165.25	178.0		97.23
20	1,649	196.30	180.3		98.84
21	1,742	758.85	660.0		99.45
22	10,380	75.00	10.9	Upper Marker	113.00


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... Region table for sample 4 :

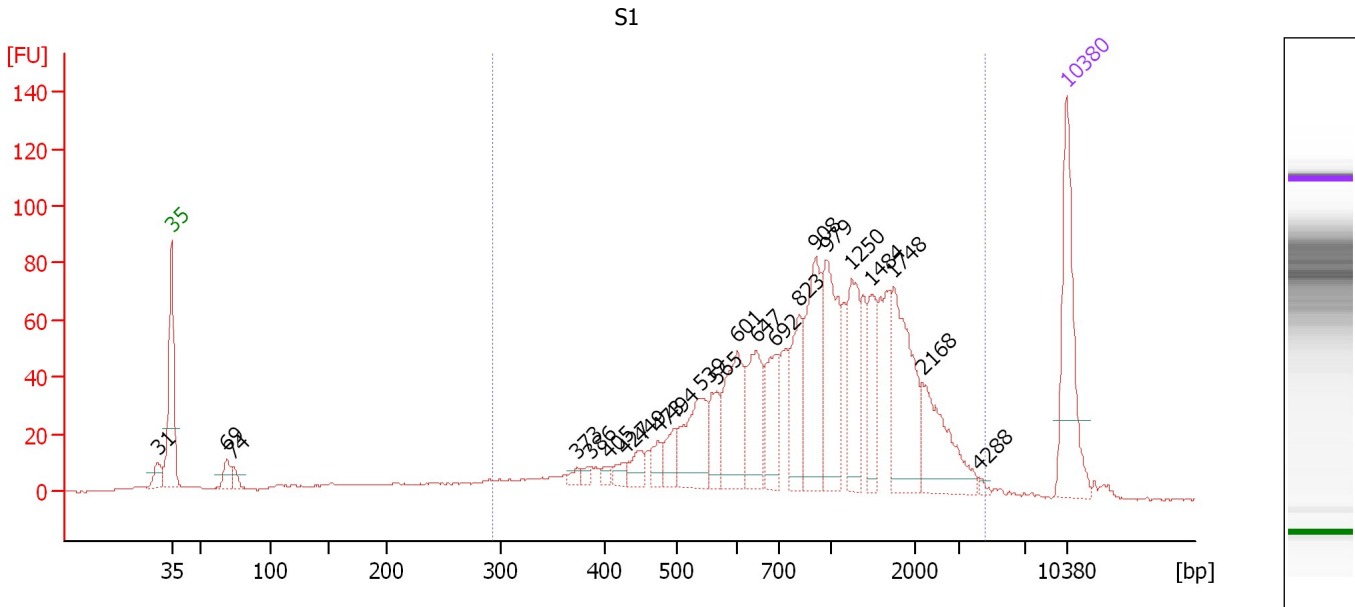
T4 S1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
378	6,088	1,401	3,562.1	4,582.7	 2,923.02	95	59.7

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : S1**

Number of peaks found: 23                      Corr. Area 1: 1,428.1  
 Noise: 0.2

**Peak table for sample 5 : S1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.93
2	35	125.00	5,411.3	Lower Marker	43.00
3	69	16.37	358.7		47.36
4	74	11.12	228.8		47.84
5	373	5.77	23.4		74.71
6	386	5.63	22.1		75.77
7	405	6.07	22.7		77.18
8	427	8.59	30.5		78.39
9	449	15.50	52.3		79.69
10	473	15.54	49.8		81.05
11	494	19.83	60.8		82.26
12	539	62.40	175.4		84.39
13	565	29.12	78.1		85.60
14	601	69.67	175.7		87.25
15	647	56.36	132.0		88.75
16	692	47.27	103.5		90.20
17	823	51.56	94.9		92.14
18	908	82.38	137.5		93.30
19	979	82.23	127.3		94.27
20	1,250	58.08	70.4		96.20
21	1,484	33.49	34.2		97.75
22	1,748	85.69	74.3		99.49
23	2,168	56.94	39.8		101.72
24	4,288	2.15	0.8		106.22
25	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**

... Region table for sample 5 : S1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
293	4,656	1,132	1,428.1	2,075.7	1,046.77	88	59.8

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**Gel Image**