

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-03\2017-10-03\_001.xad

Created: 10/3/2017 9:52:37 AM  
Modified: 10/3/2017 10:23:36 AM

**Electrophoresis File Run Summary**

Instrument Information:

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

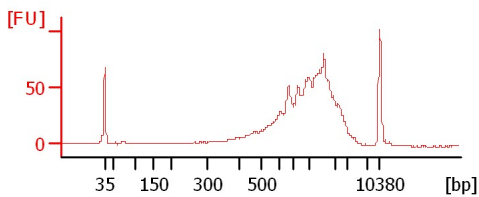
Assay Information:

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

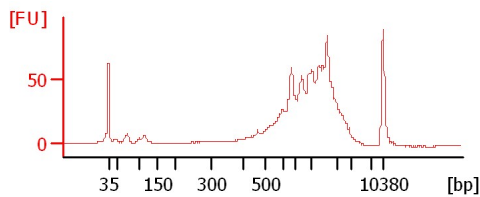
Chip Information:

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

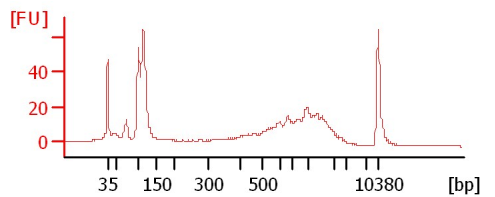
**Z4 Superpool**



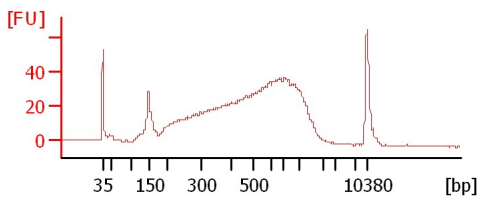
**Z5 Superpool**



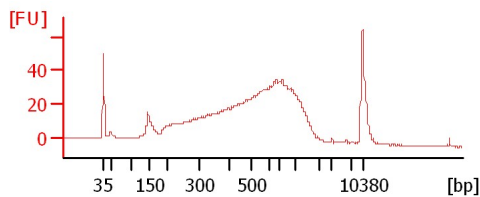
**Z6 Superpool**



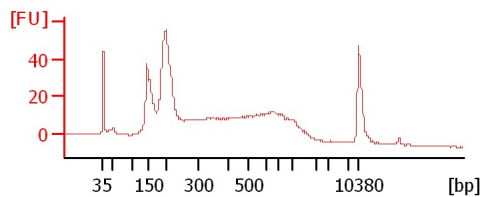
**Z4 Nextera**



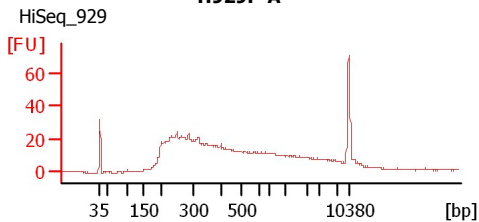
**Z5 Nextera**



**Z6 Nextera**



**H929P-A**



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Z4 Superpool		<input type="checkbox"/>	✓			
Z5 Superpool		<input type="checkbox"/>	✓			
Z6 Superpool		<input type="checkbox"/>	✓			
Z4 Nextera		<input type="checkbox"/>	✓			
Z5 Nextera		<input type="checkbox"/>	✓			
Z6 Nextera		<input type="checkbox"/>	✓			
H929P-A	HiSeq_929	<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			
<b>Chip Lot #</b>				<b>Reagent Kit Lot #</b>		

**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

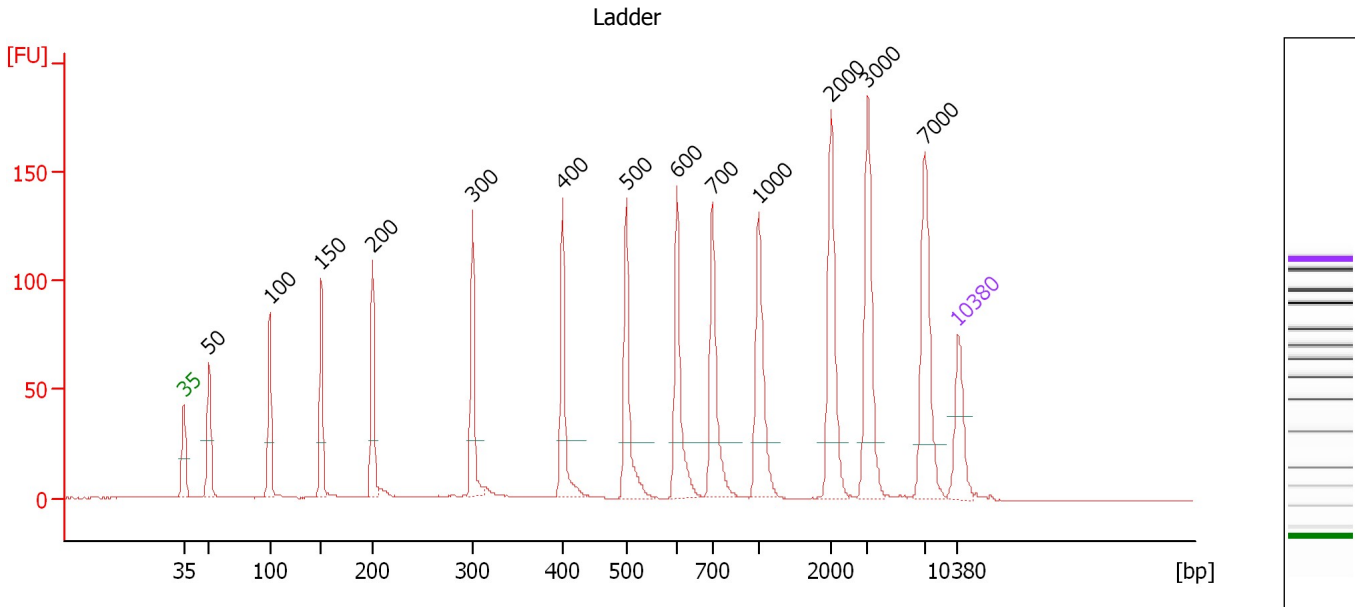
**Ladder**

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: 0.1

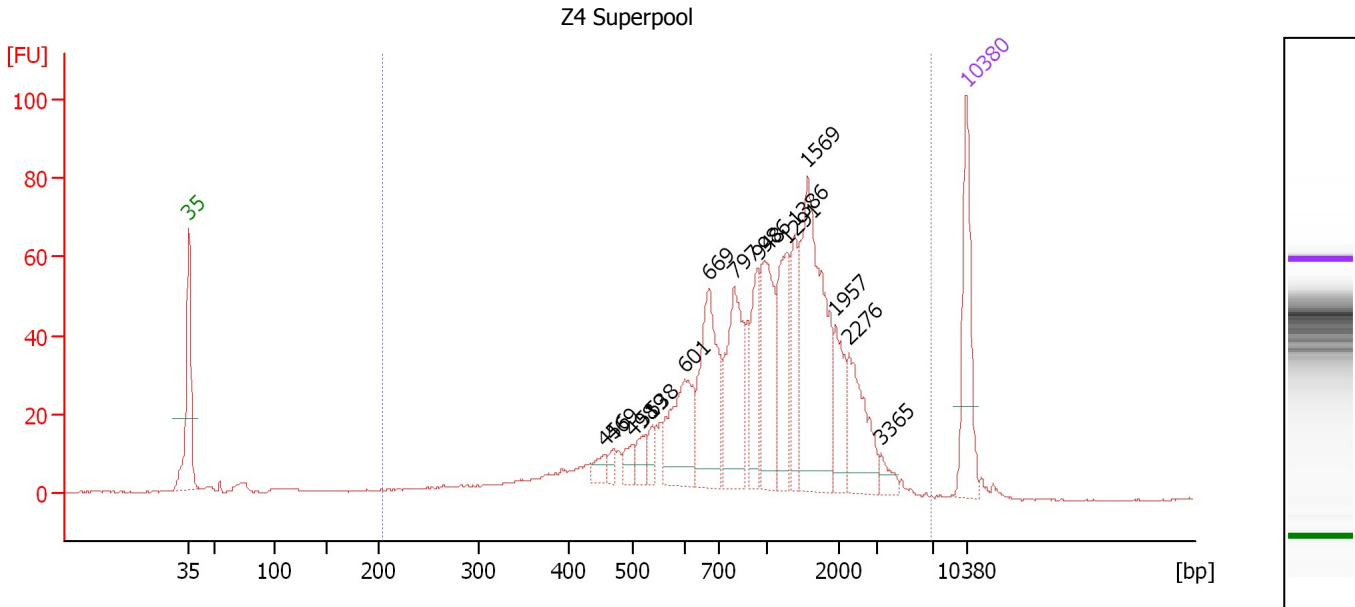
**Peak table for Ladder**

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	45.27
3	100	150.00	2,272.7	Ladder Peak	50.76
4	150	150.00	1,515.2	Ladder Peak	55.44
5	200	150.00	1,136.4	Ladder Peak	60.07
6	300	150.00	757.6	Ladder Peak	69.13
7	400	150.00	568.2	Ladder Peak	77.23
8	500	150.00	454.5	Ladder Peak	83.01
9	600	150.00	378.8	Ladder Peak	87.59
10	700	150.00	324.7	Ladder Peak	90.78
11	1,000	150.00	227.3	Ladder Peak	94.97
12	2,000	150.00	113.6	Ladder Peak	101.53
13	3,000	150.00	75.8	Ladder Peak	104.85
14	7,000	150.00	32.5	Ladder Peak	110.01
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Z4 Superpool**

Number of peaks found: 16      Corr. Area 1: 1,094.3  
 Noise: 0.2

**Peak table for sample 1 : Z4 Superpool**

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	456	15.18	50.4		80.47
3	469	9.68	31.3		81.24
4	498	16.49	50.1		82.92
5	519	18.52	54.1		83.88
6	538	16.52	46.6		84.74
7	601	91.52	230.8		87.62
8	669	128.48	291.1		89.78
9	797	115.63	219.9		92.13
10	948	56.27	90.0		94.24
11	986	94.48	145.2		94.77
12	1,291	77.13	90.5		96.88
13	1,386	49.27	53.8		97.50
14	1,569	199.37	192.5		98.70
15	1,957	46.33	35.9		101.25
16	2,276	65.19	43.4		102.44
17	3,365	11.40	5.1		105.32
18	10,380	75.00	10.9	Upper Marker	113.00

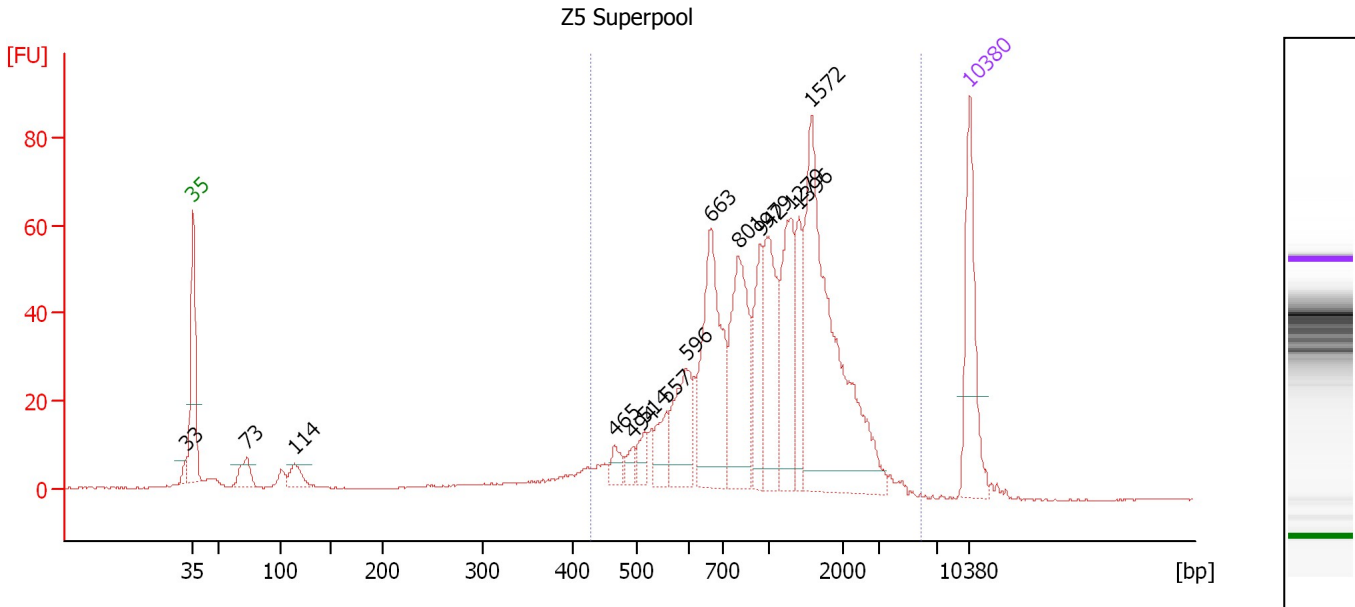
**Region table for sample 1 : Z4 Superpool**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
205	6,891	1,212	1,094.3	2,425.4	1,256.29	96	60.4

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Z5 Superpool**

Number of peaks found: 15                      Corr. Area 1: 947.8  
 Noise: 0.2

**Peak table for sample 2 : Z5 Superpool**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.33
2	35	125.00	5,411.3	Lower Marker	43.00
3	73	29.65	614.4		47.81
4	114	24.52	325.5		52.09
5	465	15.18	49.5		80.98
6	494	12.22	37.5		82.66
7	514	17.55	51.7		83.67
8	557	29.00	78.8		85.64
9	596	68.85	174.9		87.42
10	663	158.64	362.7		89.59
11	801	120.36	227.8		92.18
12	942	59.90	96.4		94.15
13	979	86.80	134.3		94.68
14	1,279	87.50	103.7		96.80
15	1,396	43.47	47.2		97.57
16	1,572	262.95	253.4		98.72
17	10,380	75.00	10.9	Upper Marker	113.00

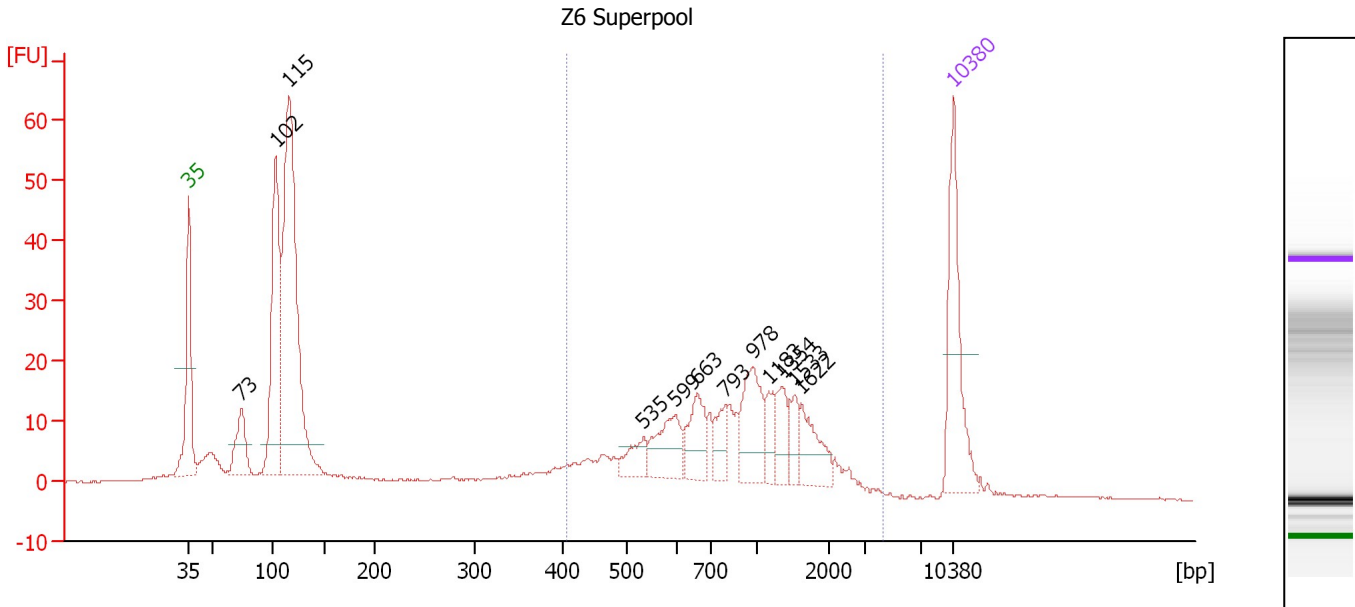
**Region table for sample 2 : Z5 Superpool**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
427	5,911	1,188	947.8	1,781.7	1,050.56	87	53.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Z6 Superpool**

Number of peaks found: 12                      Corr. Area 1: 309.9  
 Noise: 0.2

**Peak table for sample 3 : Z6 Superpool**

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	73	51.96	1,073.8		47.83
3	102	199.86	2,968.0		50.95
4	115	388.45	5,115.0		52.17
5	535	22.69	64.3		84.61
6	599	44.45	112.5		87.54
7	663	39.88	91.2		89.59
8	793	23.50	44.9		92.07
9	978	53.48	82.9		94.66
10	1,183	18.43	23.6		96.17
11	1,354	22.18	24.8		97.29
12	1,533	17.22	17.0		98.46
13	1,622	32.29	30.2		99.05
14	10,380	75.00	10.9	Upper Marker	113.00

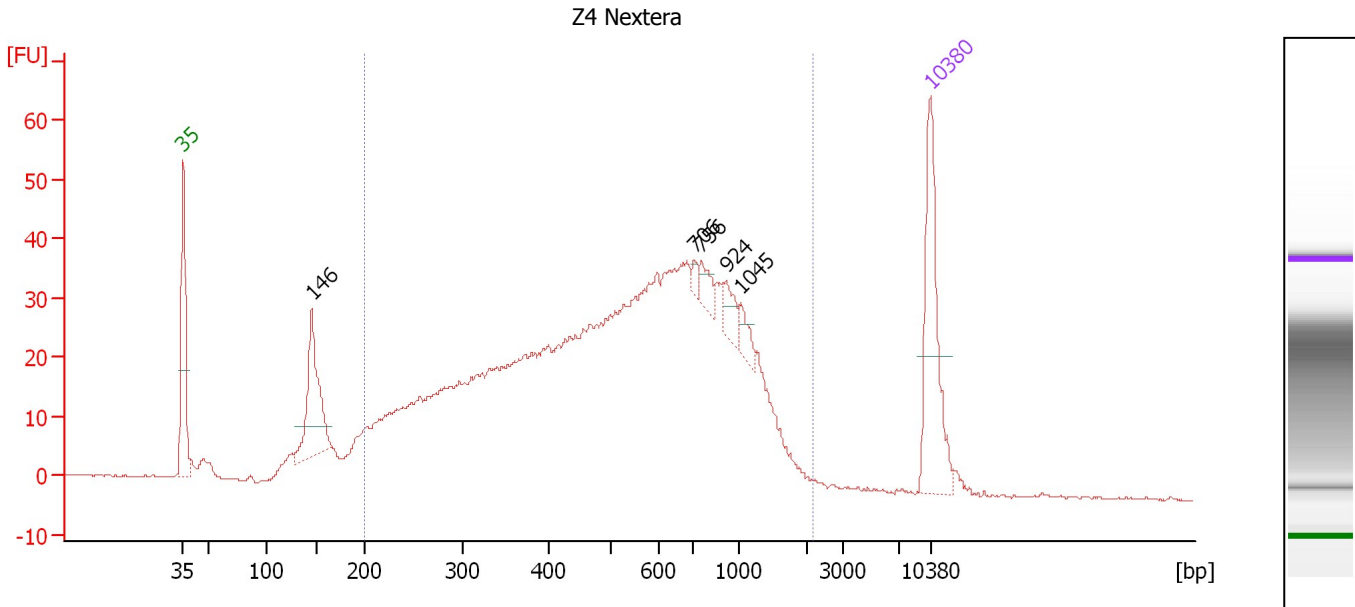
**Region table for sample 3 : Z6 Superpool**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
407	4,292	1,019	309.9	844.2	427.70	43	53.4

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Z4 Nextera**

Number of peaks found: 5                      Corr. Area 1: 1,159.4  
 Noise: 0.2

**Peak table for sample 4 : Z4 Nextera**

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	146	103.63	1,077.2		55.04
3	706	5.21	11.2		90.87
4	756	12.48	25.0		91.57
5	924	14.31	23.5		93.91
6	1,045	12.04	17.5		95.26
7	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : Z4 Nextera**

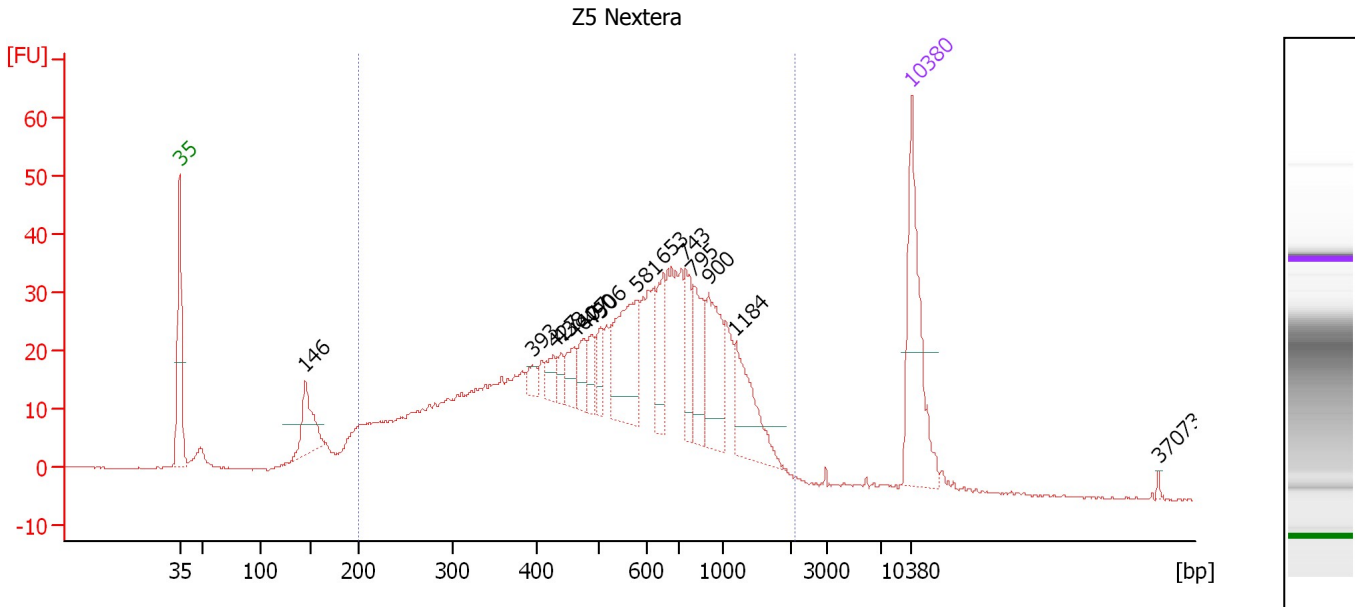
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	2,146	603	1,159.4	5,467.5	1,562.91	88	53.2



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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Z5 Nextera**

Number of peaks found: 15                      Corr. Area 1: 1,008.3  
 Noise: 0.2

**Peak table for sample 5 : Z5 Nextera**

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	146	49.96	519.7		55.03
3	393	9.37	36.1		76.70
4	427	13.71	48.6		78.79
5	438	9.27	32.0		79.45
6	460	18.71	61.6		80.73
7	477	16.80	53.3		81.70
8	490	15.27	47.2		82.41
9	506	16.53	49.5		83.28
10	581	73.81	192.3		86.74
11	653	33.45	77.6		89.29
12	743	31.49	64.2		91.38
13	795	42.12	80.3		92.10
14	900	52.69	88.7		93.58
15	1,184	49.16	62.9		96.18
16	10,380	75.00	10.9	Upper Marker	113.00
17	37,073	0.00	0.0		136.61

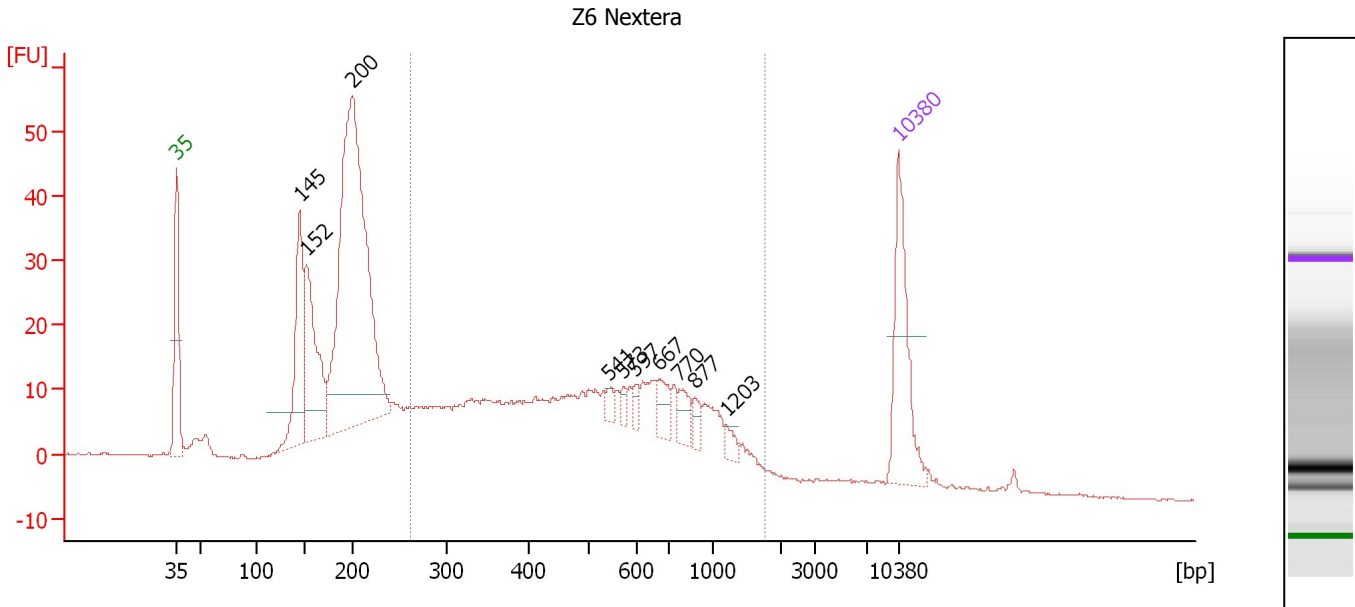
**Region table for sample 5 : Z5 Nextera**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	2,067	619	1,008.3	4,599.4	1,349.69	90	52.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Z6 Nextera**

Number of peaks found: 10                      Corr. Area 1: 462.1  
 Noise: 0.2

**Peak table for sample 6 : Z6 Nextera**

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	145	135.80	1,421.9		54.94
3	152	147.12	1,467.5		55.61
4	200	526.43	3,989.3		60.06
5	541	7.59	21.3		84.88
6	573	6.88	18.2		86.38
7	597	7.91	20.1		87.46
8	667	19.83	45.0		89.74
9	770	17.75	34.9		91.75
10	877	10.80	18.7		93.25
11	1,203	7.75	9.8		96.30
12	10,380	75.00	10.9	Upper Marker	113.00

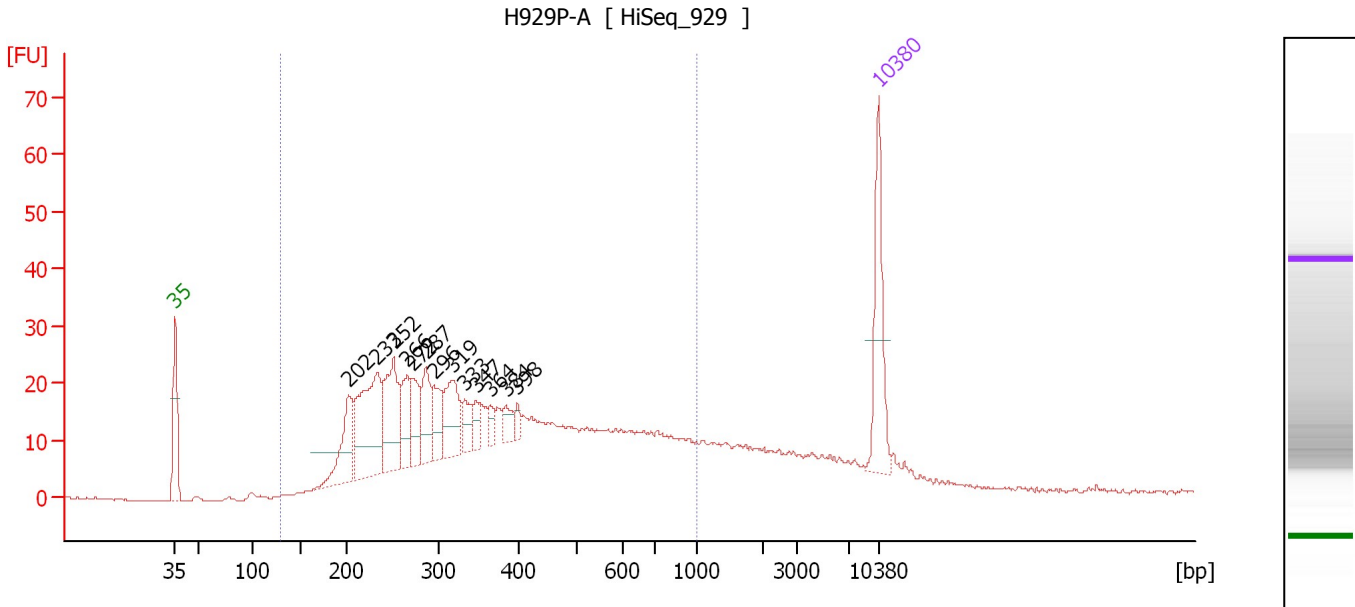
**Region table for sample 6 : Z6 Nextera**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
262	1,768	581	462.1	2,556.0	760.15	46	49.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : H929P-A**

Number of peaks found: 13                      Corr. Area 1: 709.1  
 Noise: 0.1

**Peak table for sample 7 : H929P-A**

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	202	87.72	657.9		60.25
3	233	170.79	1,110.4		63.06
4	252	108.06	650.3		64.76
5	266	50.69	288.9		66.03
6	272	52.74	294.1		66.56
7	287	56.79	299.9		67.94
8	296	40.38	206.5		68.79
9	319	66.67	316.2		70.70
10	333	24.36	111.0		71.76
11	347	18.55	81.0		72.93
12	364	13.70	57.0		74.31
13	384	17.78	70.2		75.90
14	398	9.67	36.8		77.07
15	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 7 : H929P-A**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
129	1,000	401	709.1	7,842.3	1,631.97	83	45.3

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**Gel Image**

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**Invalid Samples**

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.