

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2014-08-03\2014-08-03_001.xad

Created: 8/3/2014 2:05:53 PM
Modified: 8/3/2014 2:47:16 PM

Electrophoresis File Run Summary

Instrument Information:

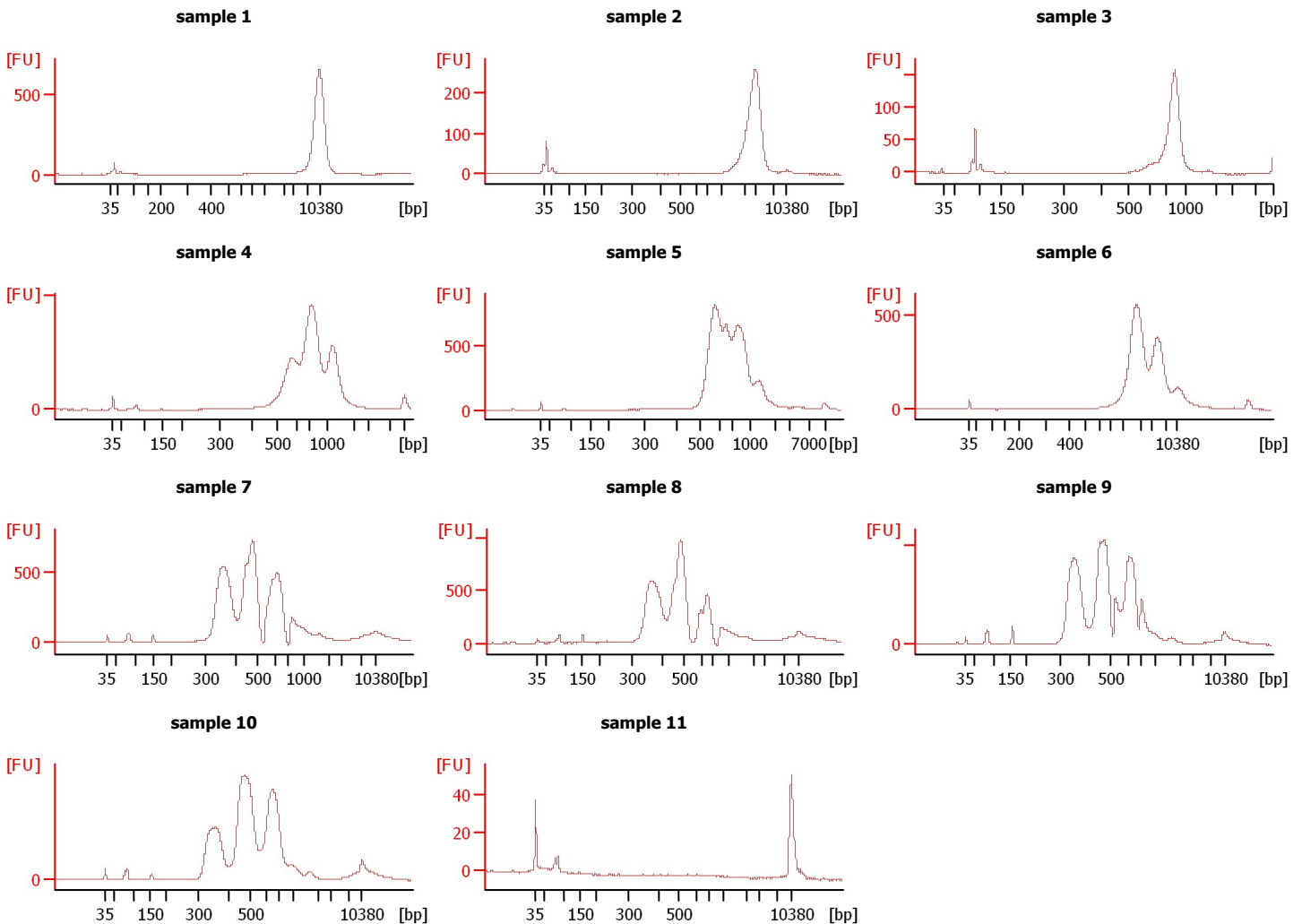
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✓			
sample 7		<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"/>	✓			

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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

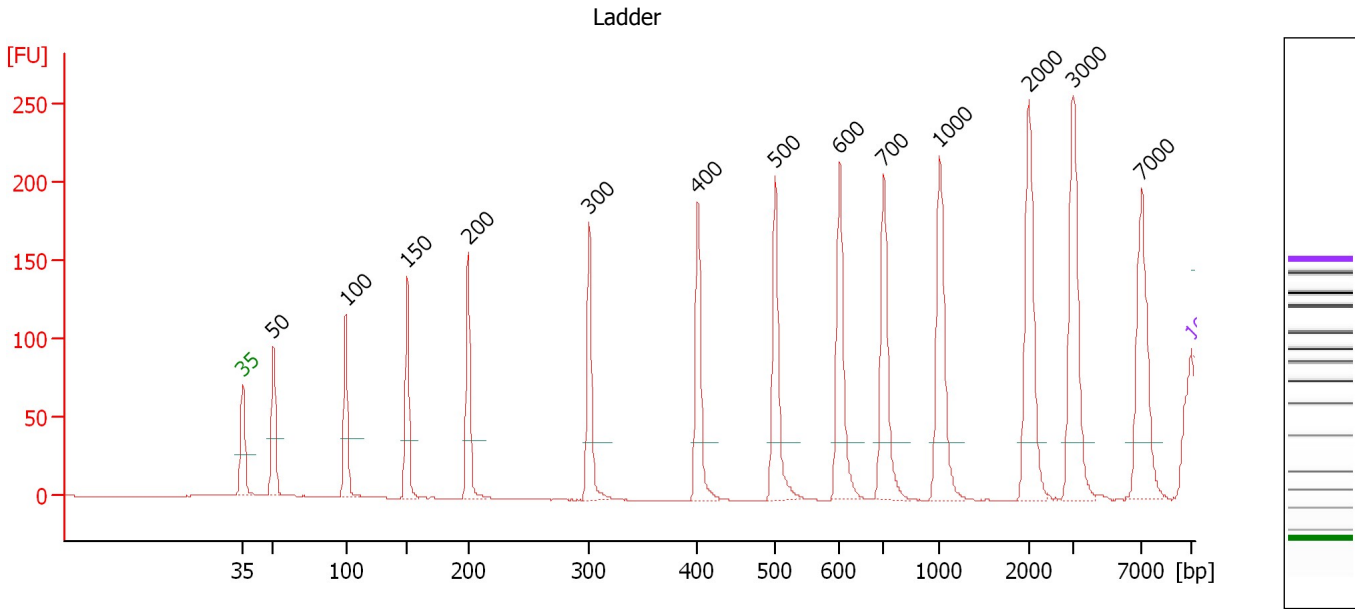
Ladder

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

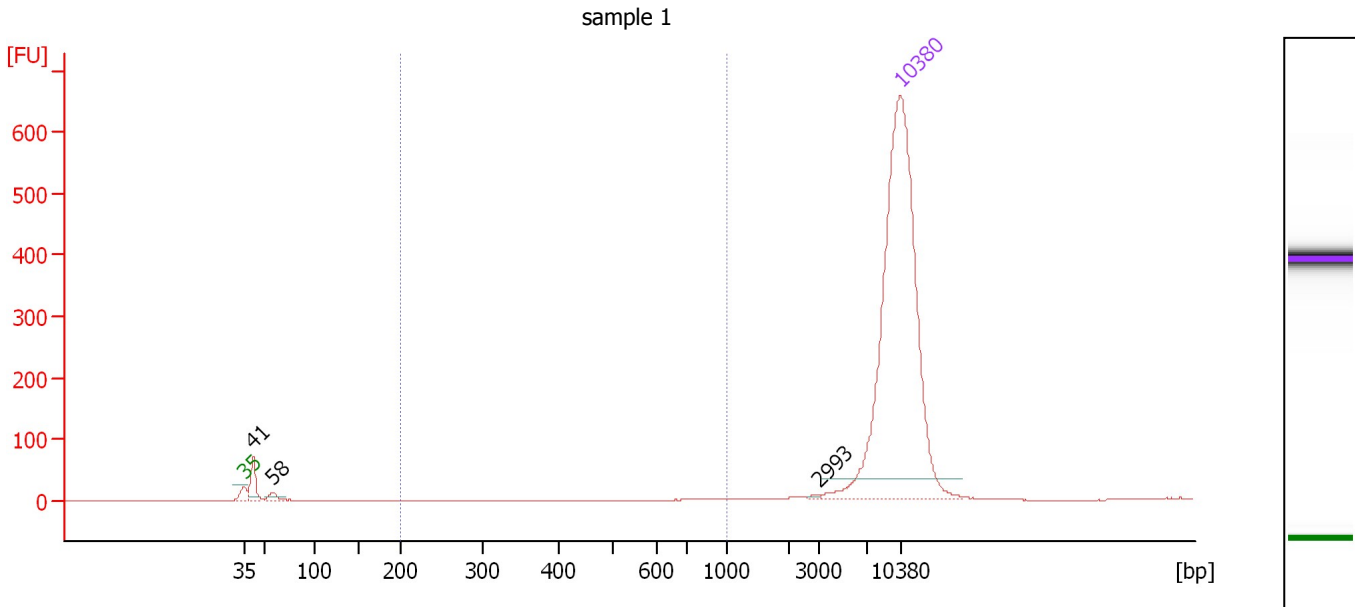
Peak table for Ladder

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 : sample 1

Number of peaks found: 3 Corr. Area 1: 0.8
 Noise: 0.2

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	5.84	213.4	
3	58	1.54	40.5	
4	2,993	0.34	0.2	
5	10,380	75.00	10.9	Upper Marker

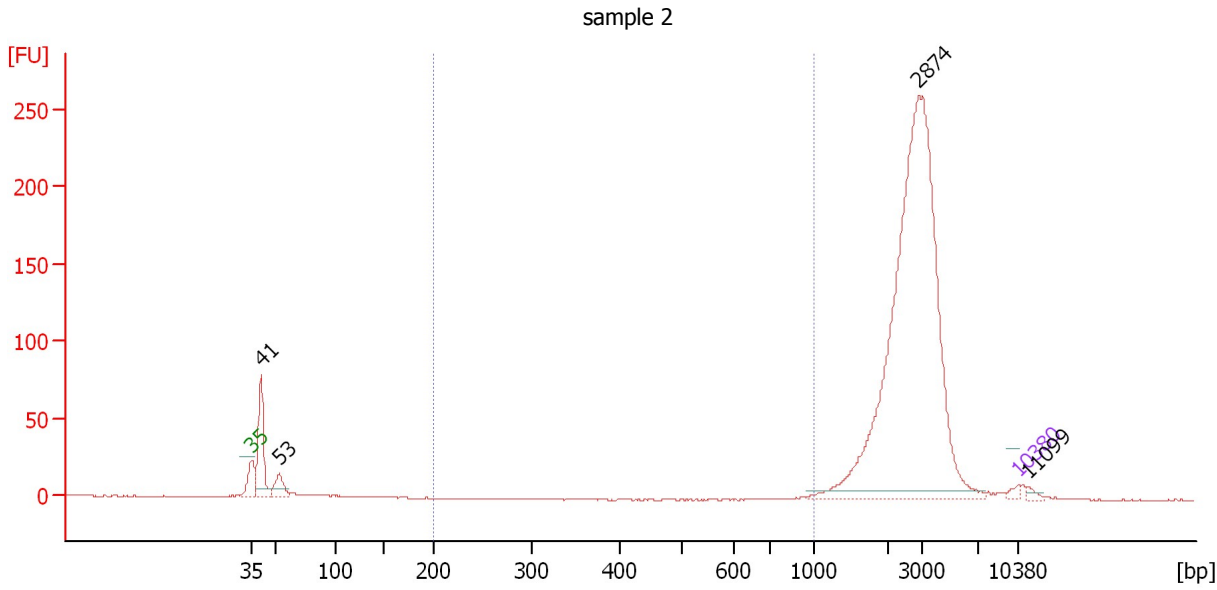
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	925	0.1	0.04	0.8	1	4.9

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Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 4 Corr. Area 1: 2.2
 Noise: 0.3

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	1,829.11	67,832.6	
3	53	524.74	15,092.5	
4	2,874	11,060.41	5,830.0	
5	10,380	75.00	10.9	Upper Marker
6	11,099	0.00	0.0	

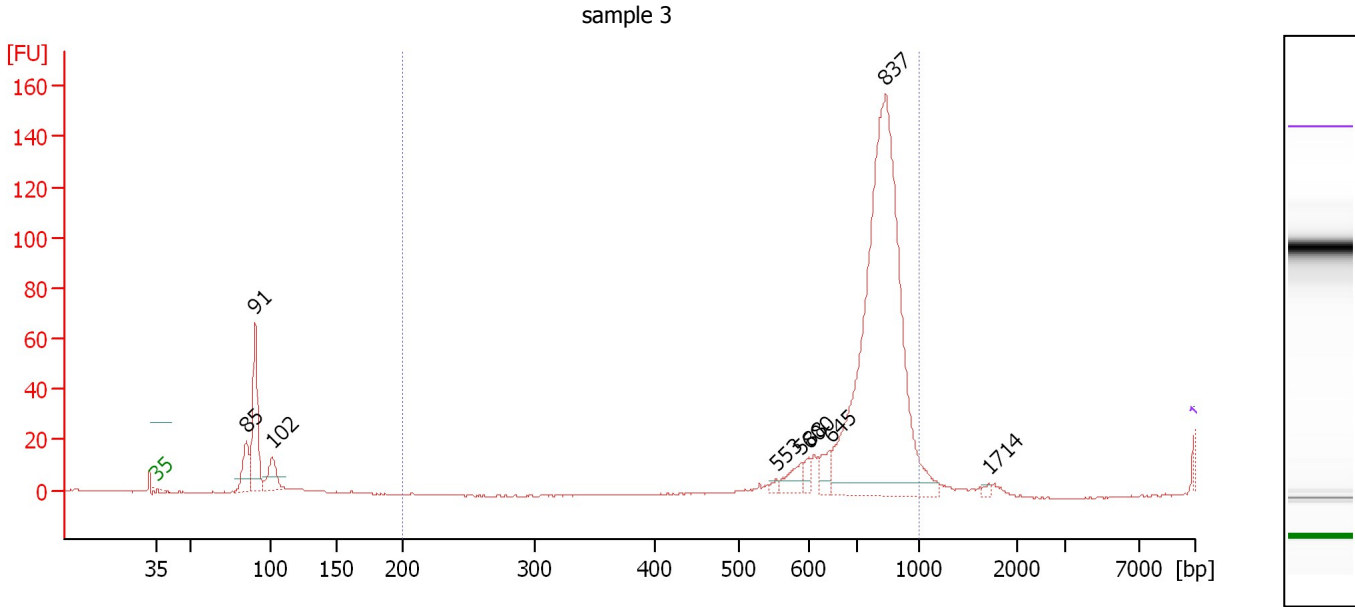
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	947	39.7	24.79	2.2	0	4.1

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Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 9 Corr. Area 1: 600.6
 Noise: 0.2

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	85	1,931.59	34,349.9	
3	91	5,029.81	83,822.1	
4	102	1,558.37	23,152.1	
5	553	184.17	504.8	
6	588	825.66	2,126.3	
7	600	367.33	928.1	
8	645	759.62	1,785.2	
9	837	23,415.24	42,397.9	
10	1,714	110.97	98.1	
11	10,380	75.00	10.9	Upper Marker

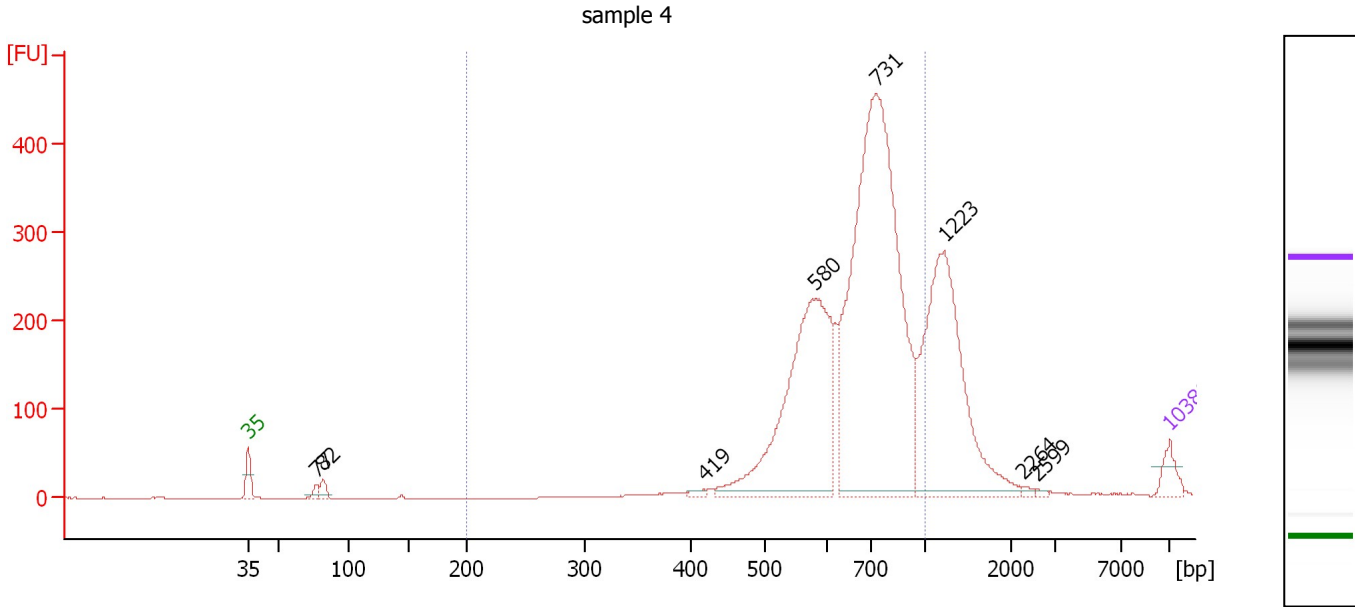
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	792	49,308.3	25,346.27	600.6	80	12.5

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Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 8 Corr. Area 1: 3,380.8
 Noise: 0.2

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	77	40.44	790.7	
3	82	61.75	1,135.2	
4	419	21.20	76.7	
5	580	1,706.32	4,460.2	
6	731	3,330.21	6,902.0	
7	1,223	1,440.65	1,784.3	
8	2,264	11.30	7.6	
9	2,599	7.34	4.3	
10	10,380	75.00	10.9	Upper Marker

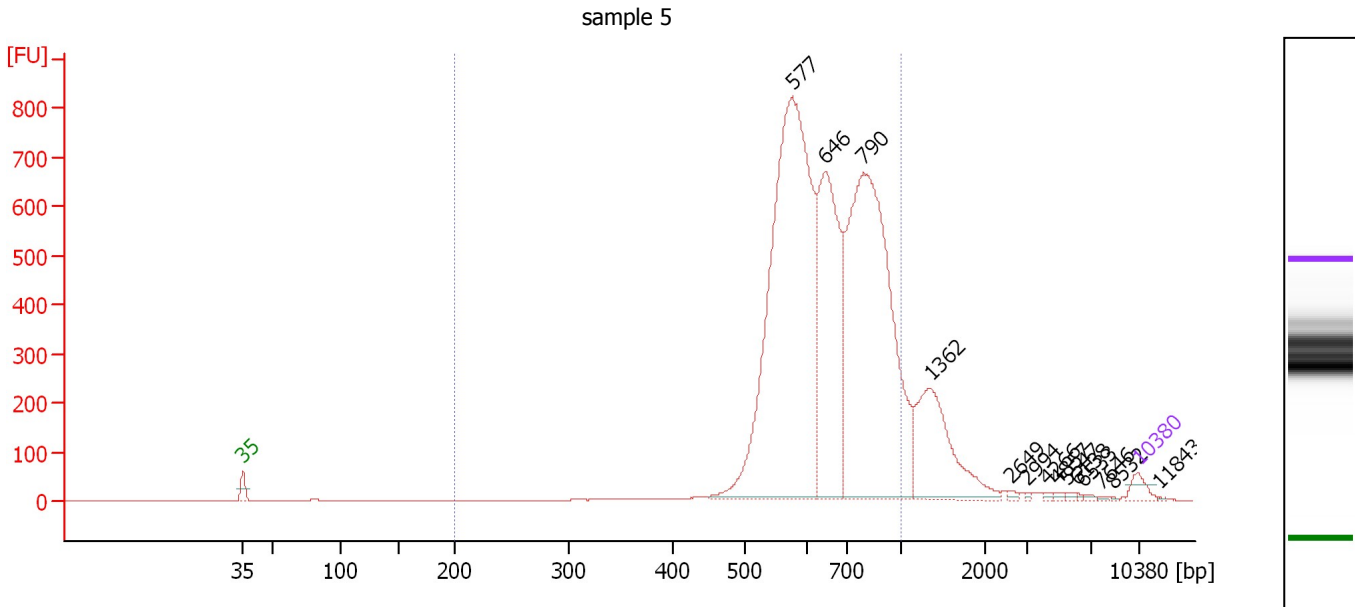
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	693	12,071.3	5,310.10	3,380.8	78	18.2

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Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 14 Corr. Area 1: 8,036.5
 Noise: 0.3

Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	577	5,107.28	13,407.9	
3	646	2,053.91	4,818.6	
4	790	4,054.13	7,771.9	
5	1,362	944.55	1,050.7	
6	2,649	16.80	9.6	
7	2,994	8.14	4.1	
8	4,266	12.22	4.3	
9	4,857	15.05	4.7	
10	5,547	12.92	3.5	
11	6,138	7.29	1.8	
12	6,533	11.53	2.7	
13	7,646	7.41	1.5	
14	8,532	2.90	0.5	
15	10,380	75.00	10.9	Upper Marker
16	11,843	0.00	0.0	

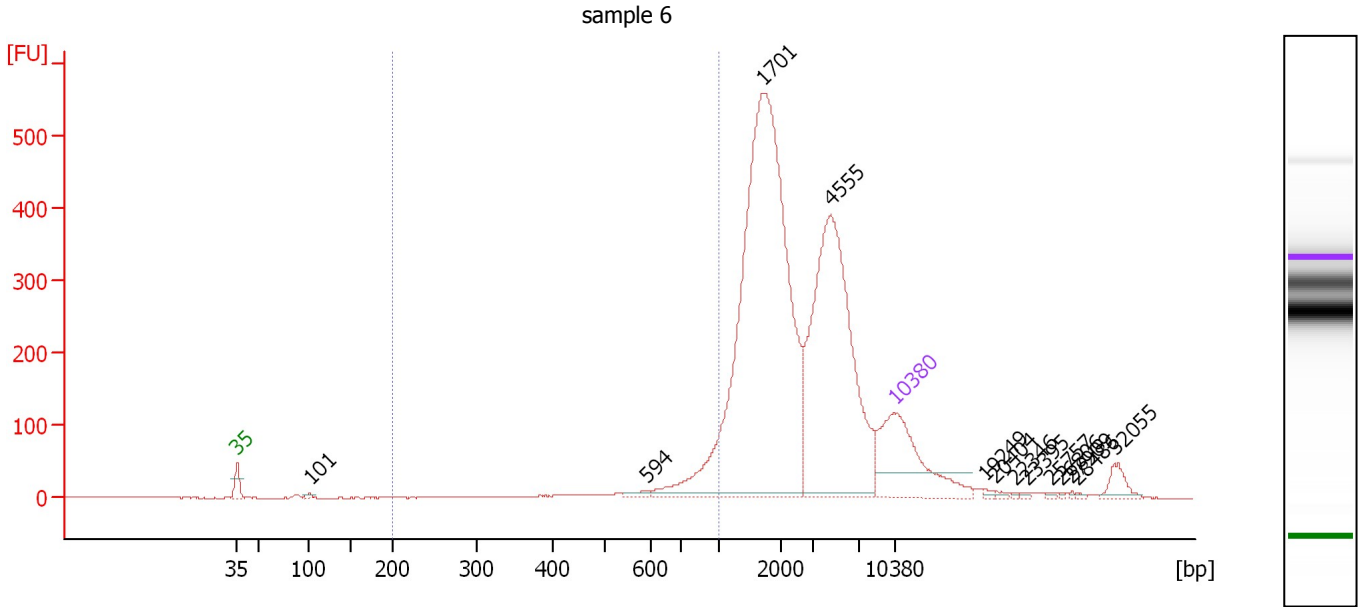
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	675	25,873.3	11,047.98	8,036.5	87	19.2

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Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 13 Corr. Area 1: 312.4
 Noise: 0.3

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	101	2.50	37.3	
3	594	3.19	8.1	
4	1,701	489.89	436.3	
5	4,555	264.80	88.1	
6	10,380	75.00	10.9	Upper Marker
7	19,249	0.00	0.0	
8	20,404	0.00	0.0	
9	22,346	0.00	0.0	
10	23,395	0.00	0.0	
11	25,757	0.00	0.0	
12	26,806	0.00	0.0	
13	27,909	0.00	0.0	
14	28,486	0.00	0.0	
15	32,055	0.00	0.0	

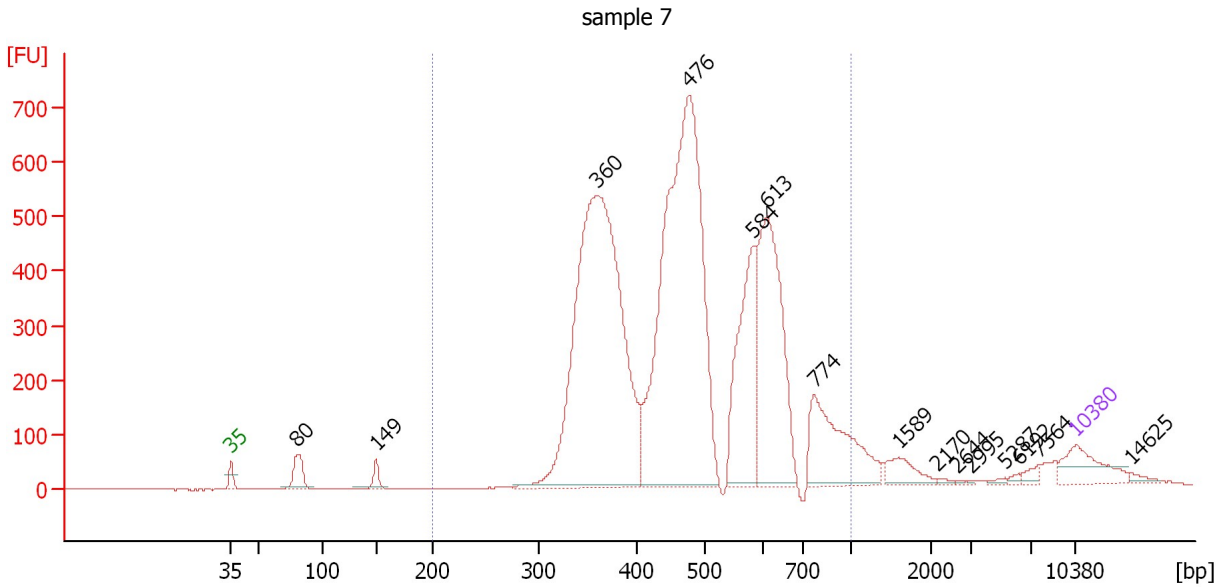
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	729	152.2	62.36	312.4	6	27.6

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Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 15 Corr. Area 1: 9,444.9
 Noise: 0.4

Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	83.91	1,592.5	
3	149	32.68	332.5	
4	360	1,610.35	6,775.9	
5	476	1,520.35	4,836.4	
6	584	367.64	954.0	
7	613	543.61	1,343.5	
8	774	271.40	531.5	
9	1,589	51.78	49.4	
10	2,170	4.51	3.2	
11	2,644	2.05	1.2	
12	2,995	1.57	0.8	
13	5,287	4.75	1.4	
14	6,192	5.71	1.4	
15	7,564	13.20	2.6	
16	10,380	75.00	10.9	Upper Marker
17	14,625	0.00	0.0	

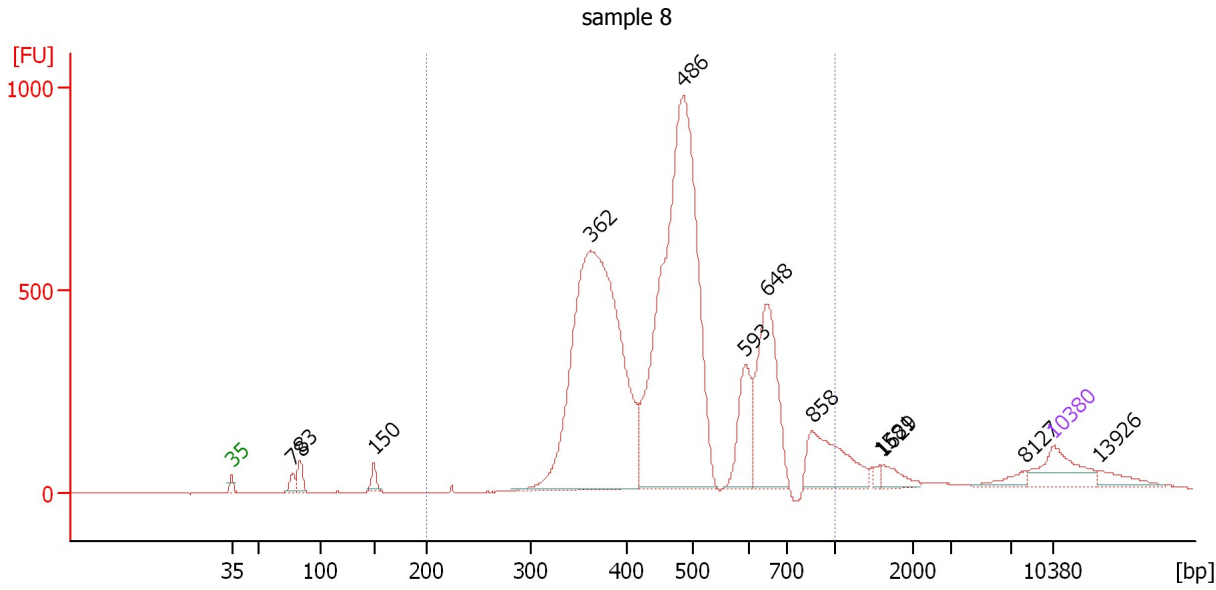
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	488	14,428.2	4,258.73	9,444.9	93	27.2

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Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 12 Corr. Area 1: 10,094.5
 Noise: 0.6

Peak table for sample 8 : sample 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	78	23.96	468.0	
3	83	42.76	776.2	
4	150	29.27	296.0	
5	362	1,389.01	5,810.6	
6	486	1,415.41	4,411.6	
7	593	142.49	363.8	
8	648	327.18	764.5	
9	858	168.97	298.4	
10	1,581	11.30	10.8	
11	1,629	29.73	27.6	
12	8,127	21.30	4.0	
13	10,380	75.00	10.9	Upper Marker
14	13,926	0.00	0.0	

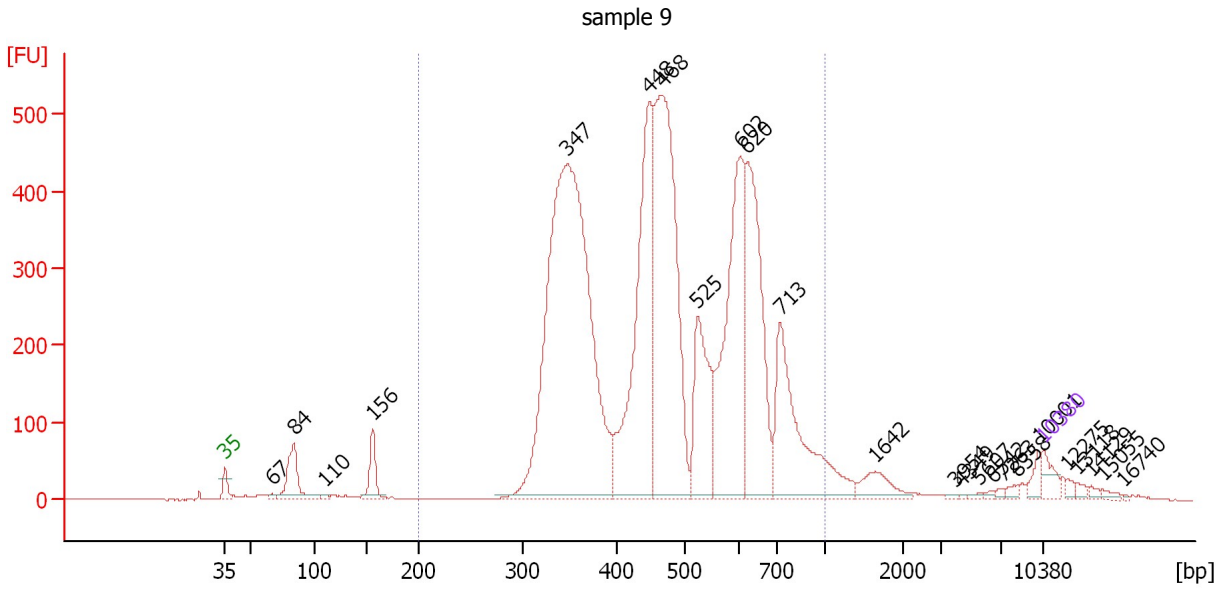
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	481	11,532.9	3,389.85	10,094.5	92	26.4

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Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 24 Corr. Area 1: 7,889.8
 Noise: 0.6

Peak table for sample 9 : sample 9


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	67	18.19	414.3	
3	84	361.80	6,525.2	
4	110	15.93	218.9	
5	156	202.63	1,971.7	
6	347	4,414.71	19,299.1	
7	448	1,703.97	5,763.5	
8	468	2,256.35	7,306.0	
9	525	662.92	1,913.9	
10	602	1,310.18	3,297.2	
11	620	1,140.35	2,785.8	
12	713	939.99	1,997.8	
13	1,642	135.99	125.4	
14	3,954	6.94	2.7	
15	4,349	4.28	1.5	
16	5,607	11.33	3.1	
17	6,542	10.70	2.5	
18	7,263	12.31	2.6	
19	8,358	21.22	3.8	
20	10,001	50.03	7.6	
21	10,380	75.00	10.9	Upper Marker
22	12,275	0.00	0.0	
23	13,118	0.00	0.0	
24	14,129	0.00	0.0	
25	15,055	0.00	0.0	
26	16,740	0.00	0.0	

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Electropherogram Summary Continued ...

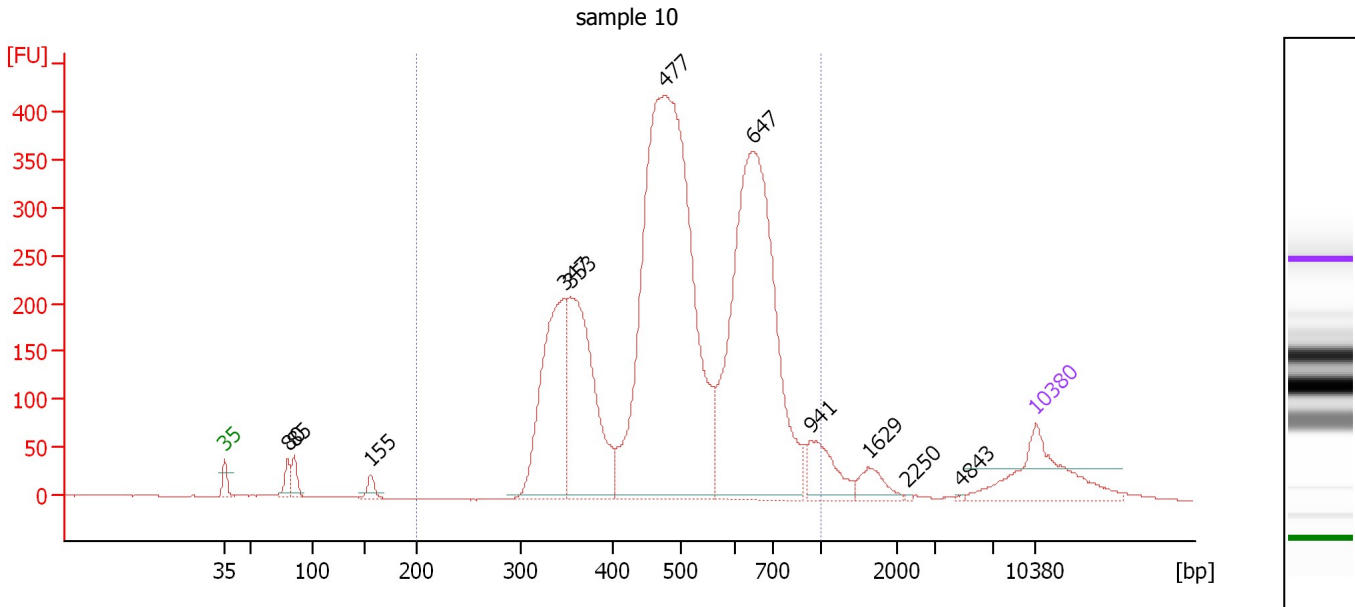
... Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	492	41,995.4	12,348.55	 7,889.8	91	27.6

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Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 11 Corr. Area 1: 5,990.6
 Noise: 0.3

Peak table for sample 10 : sample 10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	80	22.55	428.3	
3	85	23.64	421.6	
4	155	14.86	144.8	
5	347	246.65	1,076.7	
6	353	269.14	1,155.8	
7	477	870.09	2,762.6	
8	647	554.83	1,299.5	
9	941	51.42	82.8	
10	1,629	22.13	20.6	
11	2,250	0.78	0.5	
12	4,843	0.81	0.3	
13	10,380	75.00	10.9	Upper Marker

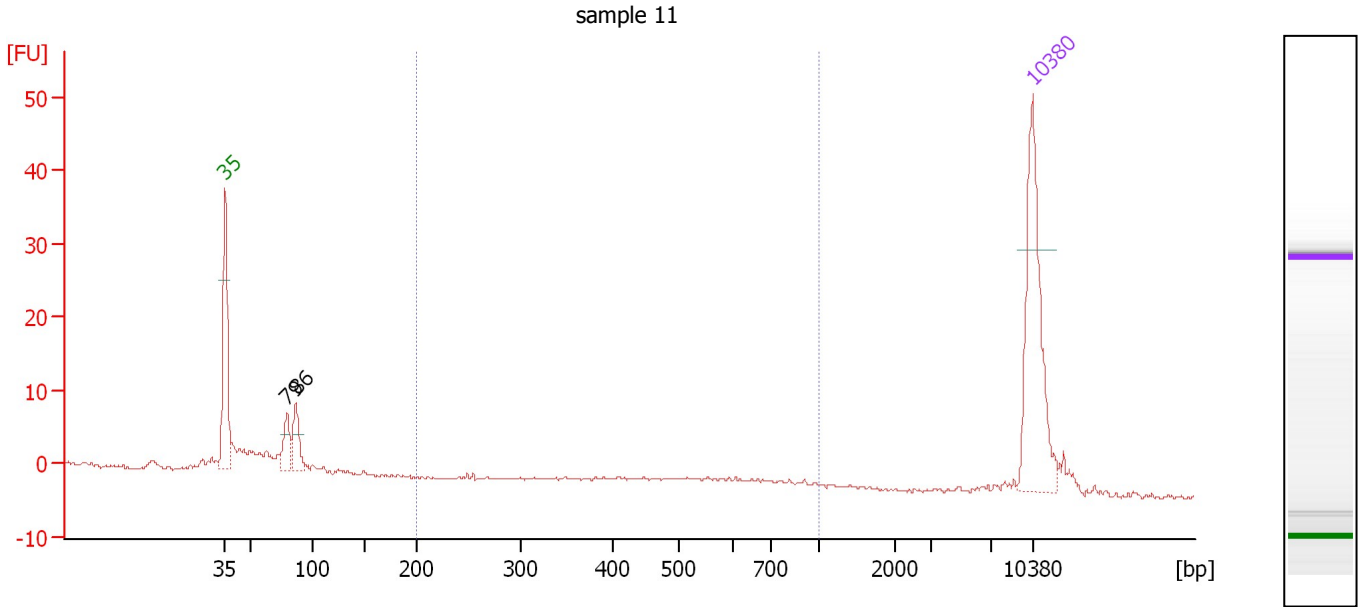
Region table for sample 10 : sample 10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	520	6,209.1	1,943.31	5,990.6	94	26.0

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Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 2 Corr. Area 1: 10.1
 Noise: 0.2

Peak table for sample 11 : sample 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	79	22.71	434.8	
3	86	26.40	464.7	
4	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	597	42.1	15.14	10.1	14	26.0

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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		8/3/2014 2:47:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-08-03\2014-08-03_001.xad)		Instrument	Run		8/3/2014 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/3/2014 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/3/2014 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/3/2014 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/3/2014 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/3/2014 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/3/2014 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1