

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...d Settings\Bioanalyzer\2015-11-20\2015-11-20_001_E6-E11.xad

Created: 11/20/2015 11:33:45 AM
Modified: 11/20/2015 12:18:45 PM

Electrophoresis File Run Summary

Instrument Information:

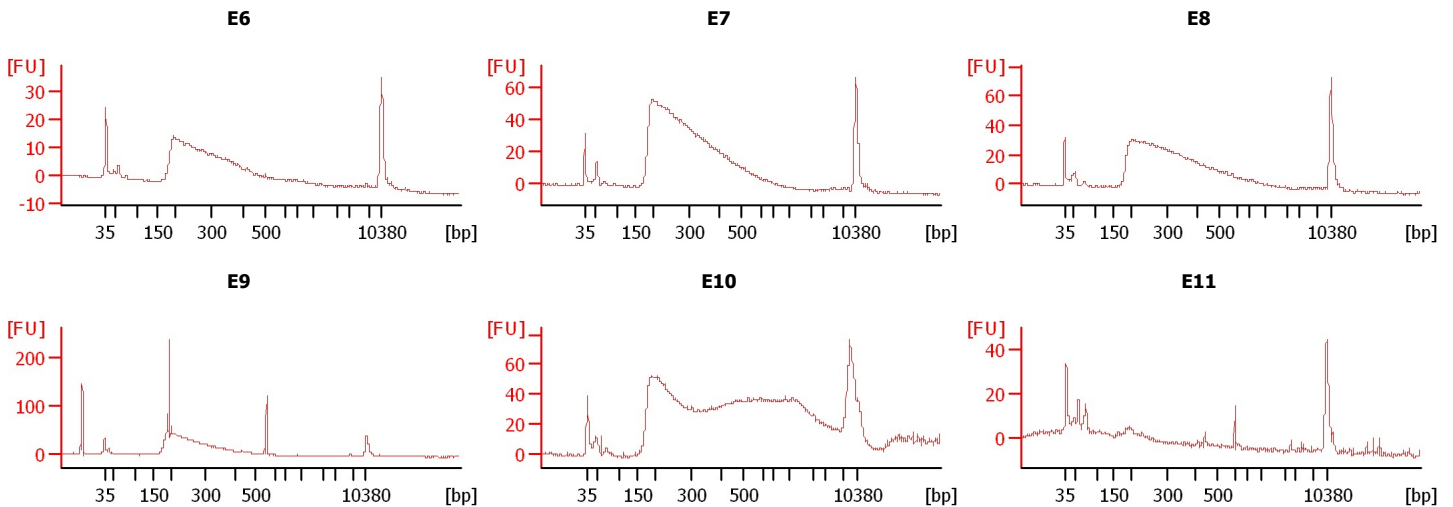
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
E6		<input type="checkbox"/>	✓			
E7		<input type="checkbox"/>	✓			
E8		<input type="checkbox"/>	✓			
E9		<input type="checkbox"/>	✓			
E10		<input type="checkbox"/>	✓			
E11		<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

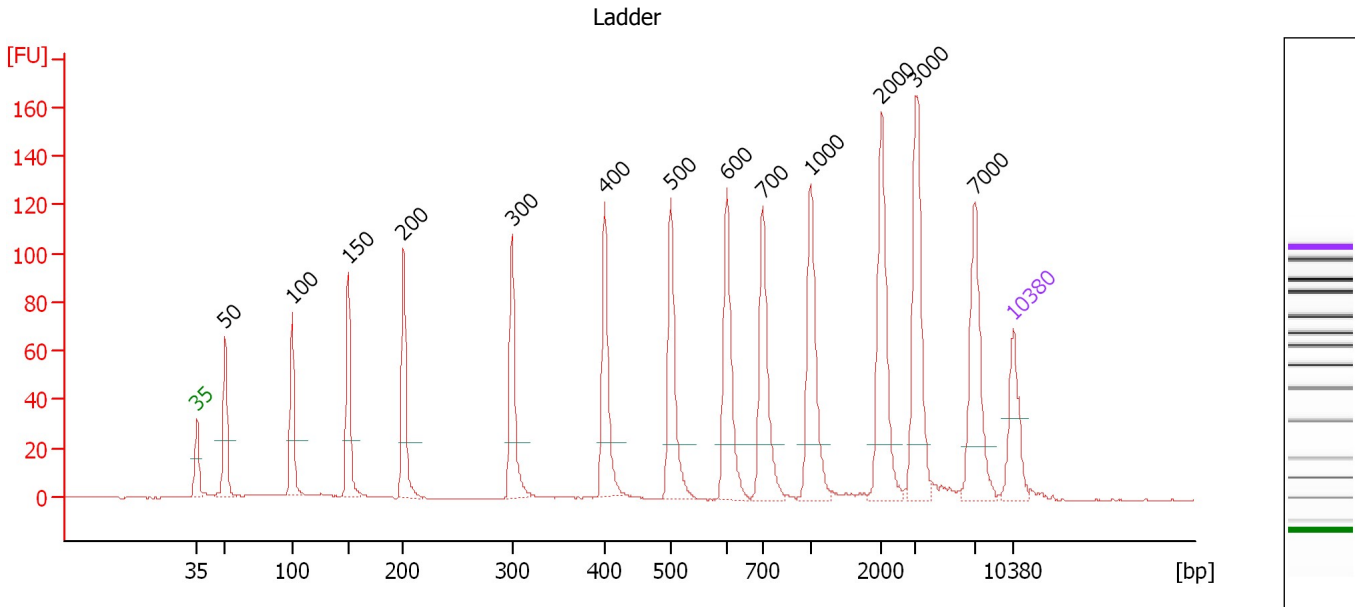
Ladder

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

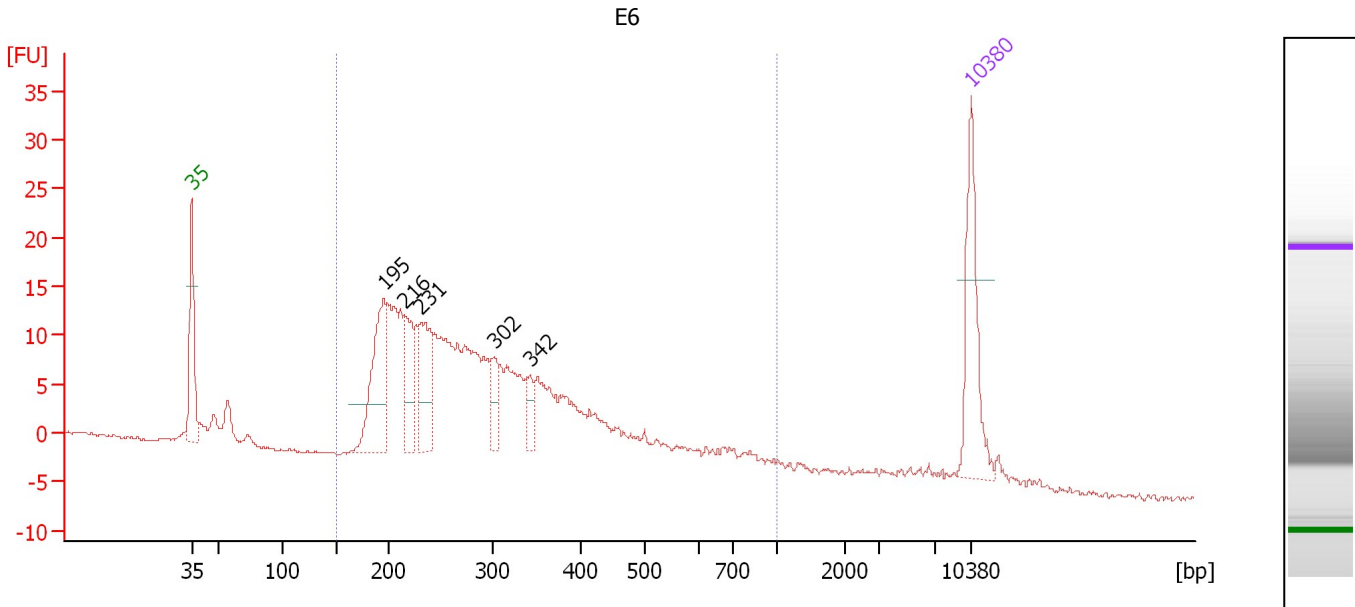
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.42
3	100	150.00	2,272.7	Ladder Peak	51.14
4	150	150.00	1,515.2	Ladder Peak	55.94
5	200	150.00	1,136.4	Ladder Peak	60.69
6	300	150.00	757.6	Ladder Peak	70.02
7	400	150.00	568.2	Ladder Peak	77.93
8	500	150.00	454.5	Ladder Peak	83.60
9	600	150.00	378.8	Ladder Peak	88.45
10	700	150.00	324.7	Ladder Peak	91.51
11	1,000	150.00	227.3	Ladder Peak	95.58
12	2,000	150.00	113.6	Ladder Peak	101.71
13	3,000	150.00	75.8	Ladder Peak	104.63
14	7,000	150.00	32.5	Ladder Peak	109.66
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 6 : E6

Number of peaks found: 5 Corr. Area 1: 353.9
 Noise: 0.2

Peak table for sample 6 : E6

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	195	138.32	1,073.7		60.24
3	216	64.68	454.5		62.15
4	231	86.15	565.0		63.59
5	302	32.29	162.2		70.15
6	342	20.23	89.6		73.36
7	10,380	75.00	10.9	Upper Marker	113.00

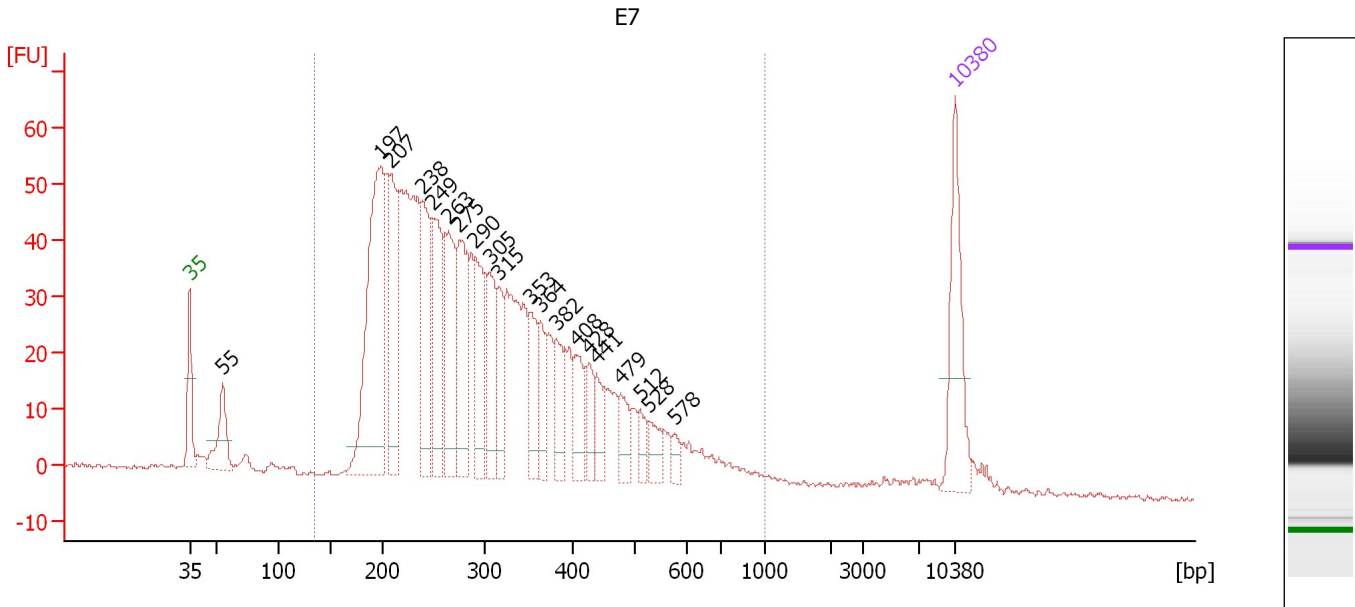
Region table for sample 6 : E6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
150	1,000	321	353.9	6,285.1	1,122.20	92	42.1

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Electropherogram Summary Continued ...



Overall Results for sample 7 : E7

Number of peaks found: 20 Corr. Area 1: 1,329.7
 Noise: 0.4

Peak table for sample 7 : E7

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	55	65.20	1,788.3		46.02
3	197	309.68	2,376.4		60.45
4	207	140.14	1,026.7		61.33
5	238	118.36	753.0		64.25
6	249	114.74	699.3		65.23
7	263	115.30	663.6		66.59
8	275	118.65	654.3		67.67
9	290	87.00	453.9		69.13
10	305	74.75	370.9		70.44
11	315	49.64	239.1		71.18
12	353	54.40	233.6		74.20
13	364	38.78	161.5		75.08
14	382	49.69	197.2		76.49
15	408	40.41	150.0		78.39
16	428	29.75	105.4		79.51
17	441	27.64	95.0		80.24
18	479	30.82	97.4		82.44
19	512	18.33	54.2		84.19
20	528	22.21	63.7		84.97
21	578	11.53	30.2		87.36
22	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

... Region table for sample 7 :

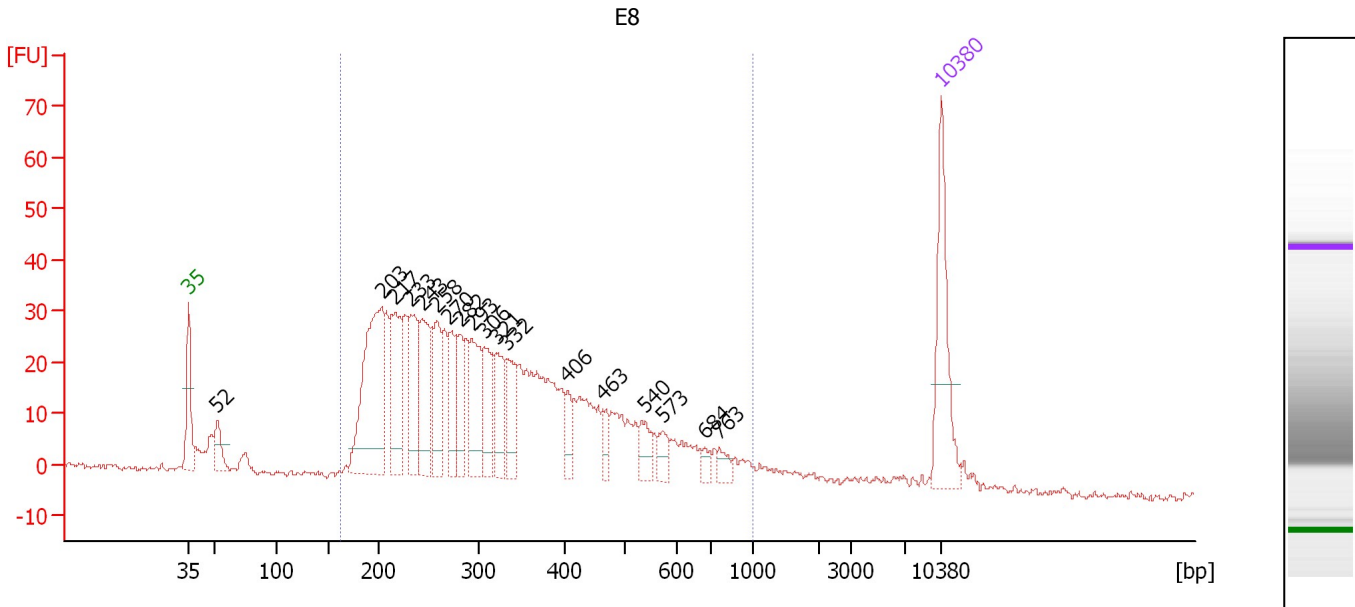
E7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
133	1,000	317	1,329.7	12,675.3	2,275.23	95	37.8

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Electropherogram Summary Continued ...



Overall Results for sample 8 : E8

Number of peaks found: 18 Corr. Area 1: 933.4
 Noise: 0.6

Peak table for sample 8 : E8

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	52	32.85	952.8		45.68
3	203	219.02	1,636.1		60.96
4	217	103.49	723.7		62.25
5	233	85.63	557.7		63.74
6	243	84.93	530.2		64.68
7	258	61.01	358.1		66.12
8	270	49.42	276.9		67.26
9	282	50.48	271.6		68.30
10	293	74.74	386.9		69.34
11	306	48.83	241.4		70.53
12	321	50.51	238.5		71.67
13	332	51.94	236.9		72.57
14	406	21.53	80.3		78.27
15	463	16.81	55.0		81.50
16	540	22.12	62.1		85.52
17	573	15.85	41.9		87.15
18	684	10.17	22.5		91.02
19	763	11.80	23.4		92.36
20	10,380	75.00	10.9	Upper Marker	113.00

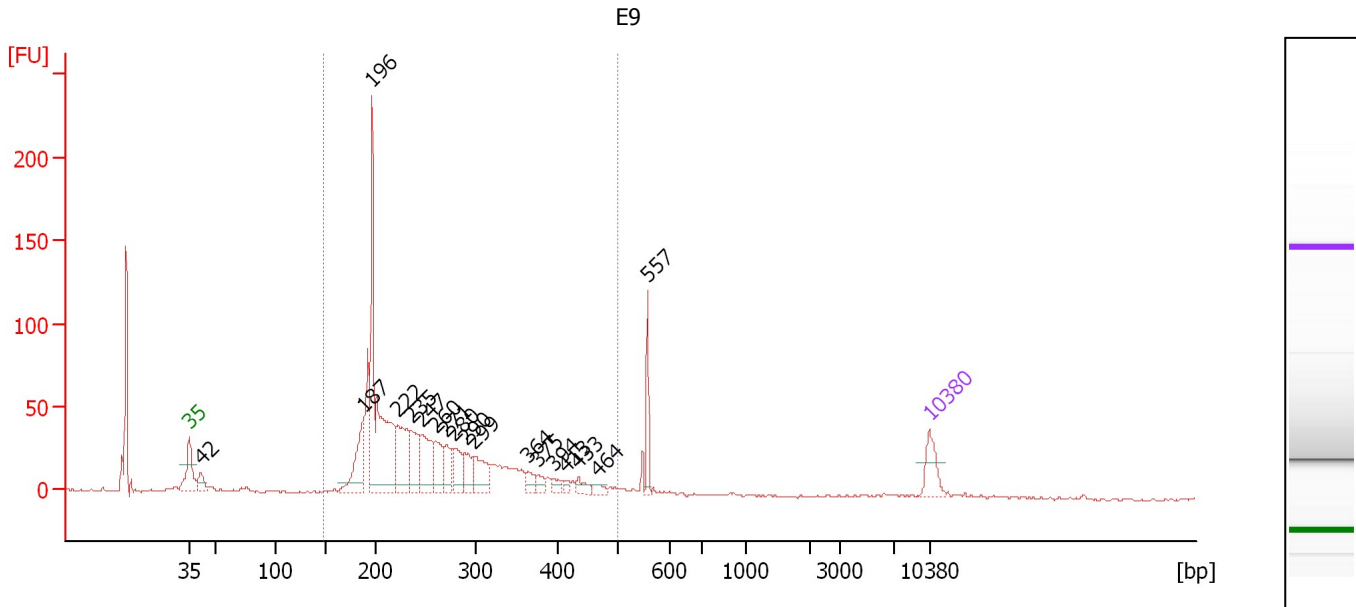
Region table for sample 8 : E8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
163	1,000	344	933.4	8,226.7	1,543.92	93	42.2

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Electropherogram Summary Continued ...



Overall Results for sample 9 : E9

Number of peaks found: 18 Corr. Area 1: 928.2
 Noise: 0.7

Peak table for sample 9 : E9

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	42	66.82	2,418.1		44.11
3	187	217.08	1,760.5		59.44
4	196	869.91	6,712.2		60.35
5	222	249.31	1,703.8		62.72
6	235	160.45	1,033.5		63.98
7	247	197.78	1,215.3		65.04
8	260	125.12	728.9		66.30
9	271	107.04	598.7		67.31
10	280	107.67	583.5		68.12
11	290	90.06	470.8		69.07
12	299	137.39	696.2		69.93
13	364	40.23	167.5		75.07
14	375	31.45	126.9		75.98
15	394	27.26	104.9		77.45
16	413	17.92	65.8		78.66
17	433	34.63	121.1		79.82
18	464	21.26	69.4		81.58
19	557	91.65	249.2		86.37
20	10,380	75.00	10.9	Upper Marker	113.00

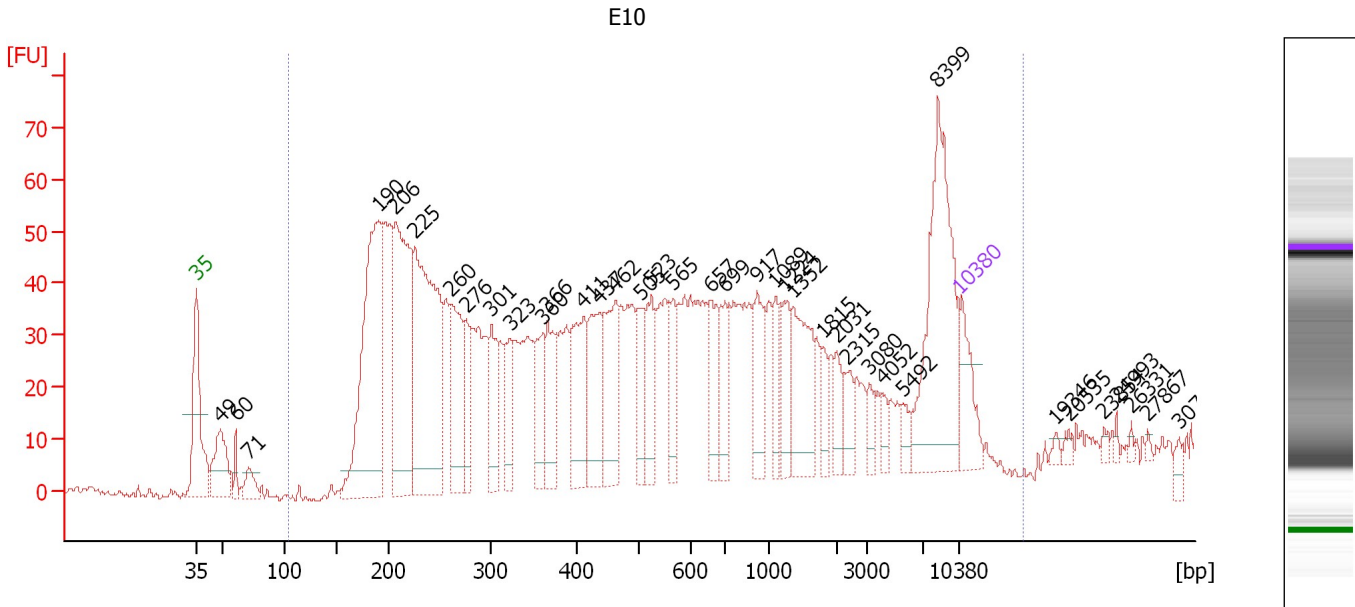
Region table for sample 9 : E9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
148	498	261	928.2	18,593.8	2,941.58	79	27.5

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Electropherogram Summary Continued ...



Overall Results for sample 10 : E10

Number of peaks found: 38 Corr. Area 1: 1,965.7
 Noise: 0.7

Peak table for sample 10 : E10

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	49	146.38	4,561.1		45.20
3	60	29.42	737.2		46.62
4	71	48.32	1,028.8		47.84
5	190	628.37	5,001.2		59.78
6	206	464.37	3,408.2		61.29
7	225	607.28	4,083.6		63.06
8	260	211.04	1,227.7		66.33
9	276	95.21	523.3		67.75
10	301	119.72	602.6		70.10
11	323	91.95	431.8		71.81
12	360	91.33	384.0		74.80
13	366	121.14	501.6		75.24
14	411	167.95	618.9		78.56
15	437	145.39	504.1		80.03
16	462	175.04	574.0		81.45
17	505	89.36	268.1		83.85
18	523	98.97	286.6		84.73
19	565	79.01	212.0		86.73
20	657	87.71	202.2		90.20
21	699	92.11	199.7		91.48
22	917	98.00	161.8		94.46
23	1,089	49.94	69.5		96.12
24	1,224	62.22	77.0		96.96
25	1,352	140.46	157.4		97.74

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Electropherogram Summary Continued ...

... Peak table for sample 10 : E10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,815	30.81	25.7		100.58
27	2,031	39.12	29.2		101.80
28	2,315	34.79	22.8		102.63
29	3,080	22.71	11.2		104.73
30	4,052	18.76	7.0		105.96
31	5,492	20.97	5.8		107.77
32	8,399	314.20	56.7		111.04
33	10,380	75.00	10.9	Upper Marker	113.00
34	19,346	0.00	0.0		121.85
35	20,535	0.00	0.0		123.03
36	23,854	0.00	0.0		126.31
37	24,993	0.00	0.0		127.43
38	26,331	0.00	0.0		128.75
39	27,867	0.00	0.0		130.27
40	30,789	0.00	0.0		133.15

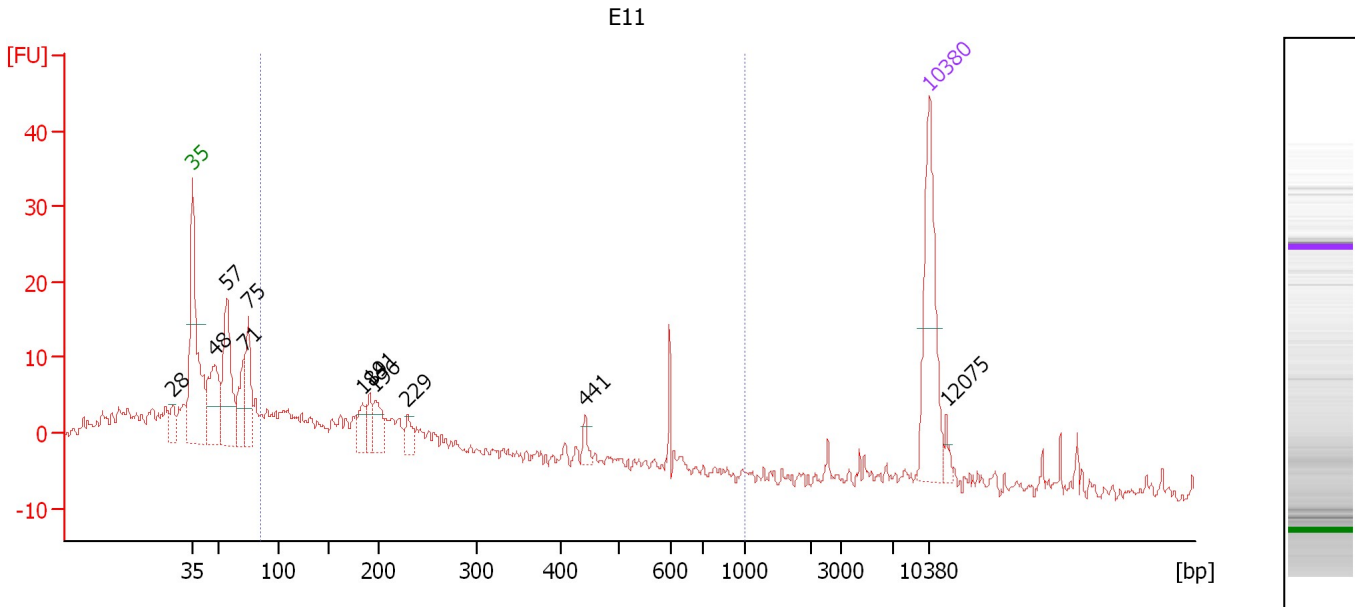
Region table for sample 10 : E10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
104	16,370	1,690	1,965.7	23,991.3	5,438.35	98	100.0

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Electropherogram Summary Continued ...



Overall Results for sample 11 : E11

Number of peaks found: 11 Corr. Area 1: 118.7
 Noise: 0.9

Peak table for sample 11 : E11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		41.02
2	35	125.00	5,411.3	Lower Marker	43.00
3	48	79.09	2,503.1		45.08
4	57	102.91	2,725.8		46.25
5	71	41.60	888.2		47.82
6	75	52.34	1,058.1		48.28
7	184	21.71	178.7		59.18
8	191	18.47	146.5		59.84
9	196	26.28	202.8		60.35
10	229	14.68	97.1		63.39
11	441	8.08	27.7		80.28
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,075	0.00	0.0		114.67

Region table for sample 11 : E11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
86	1,000	234	118.7	2,771.9	298.68	41	60.0

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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		11/20/2015 12:15:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-20\2015-11-20_001.xad)		Instrument	Run		11/20/2015 11:33:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/20/2015 11:33:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/20/2015 11:33:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/20/2015 11:33:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/20/2015 11:33:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/20/2015 11:33:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/20/2015 11:33:50 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1