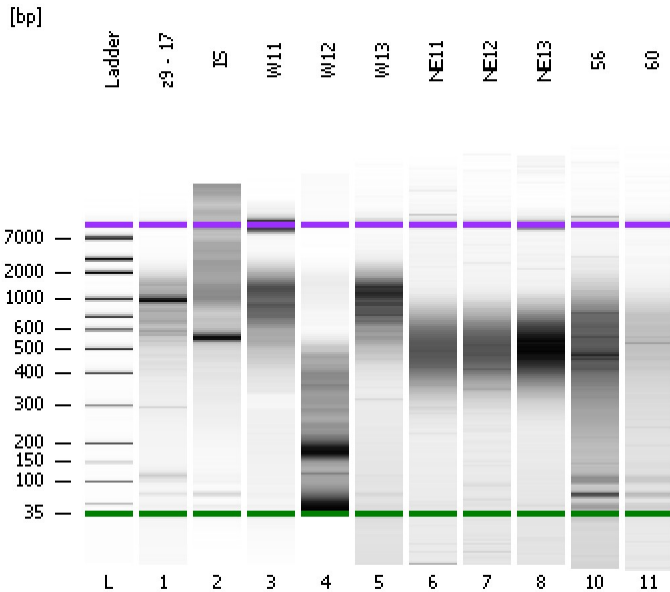


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
Modified: 12/11/2017 4:19:13 PM

Electrophoresis File Run Summary



Instrument Information:

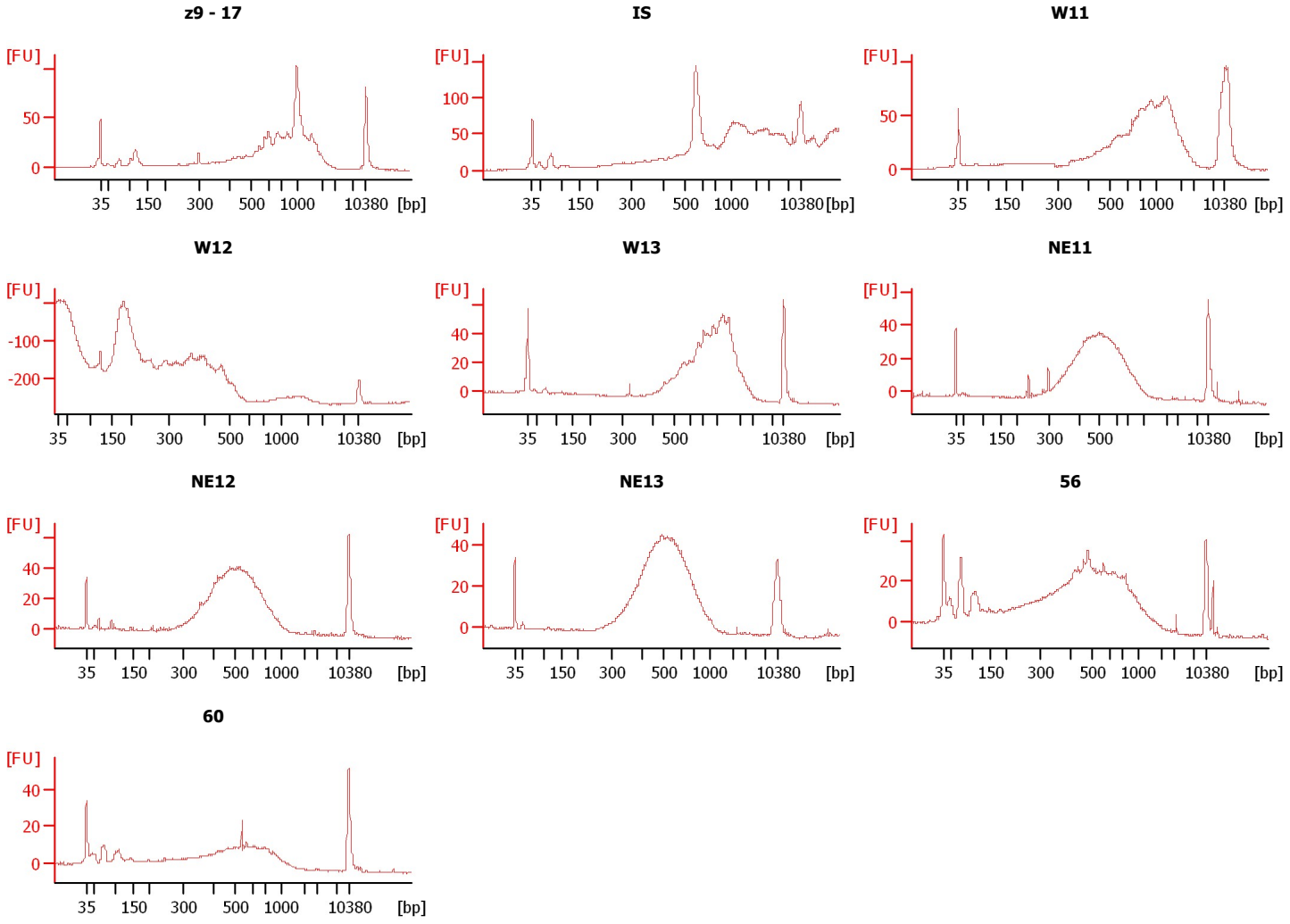
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
 Modified: 12/11/2017 4:19:13 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
z9 - 17		<input type="checkbox"/>	✓			
IS		<input type="checkbox"/>	✓			
W11		<input type="checkbox"/>	✓			
W12		<input type="checkbox"/>	✓			
W13		<input type="checkbox"/>	✓			
NE11		<input type="checkbox"/>	✓			
NE12		<input type="checkbox"/>	✓			
NE13		<input type="checkbox"/>	✓			
56		<input type="checkbox"/>	✓			
60		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
Modified: 12/11/2017 4:19:13 PM

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

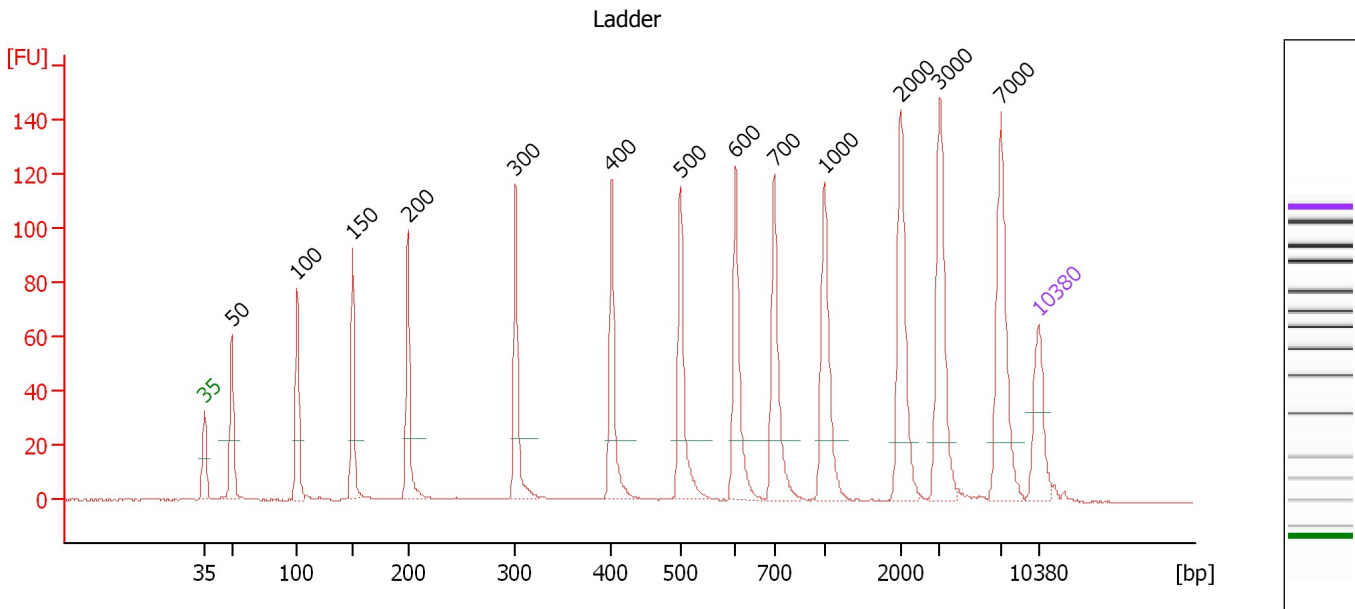
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
 Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

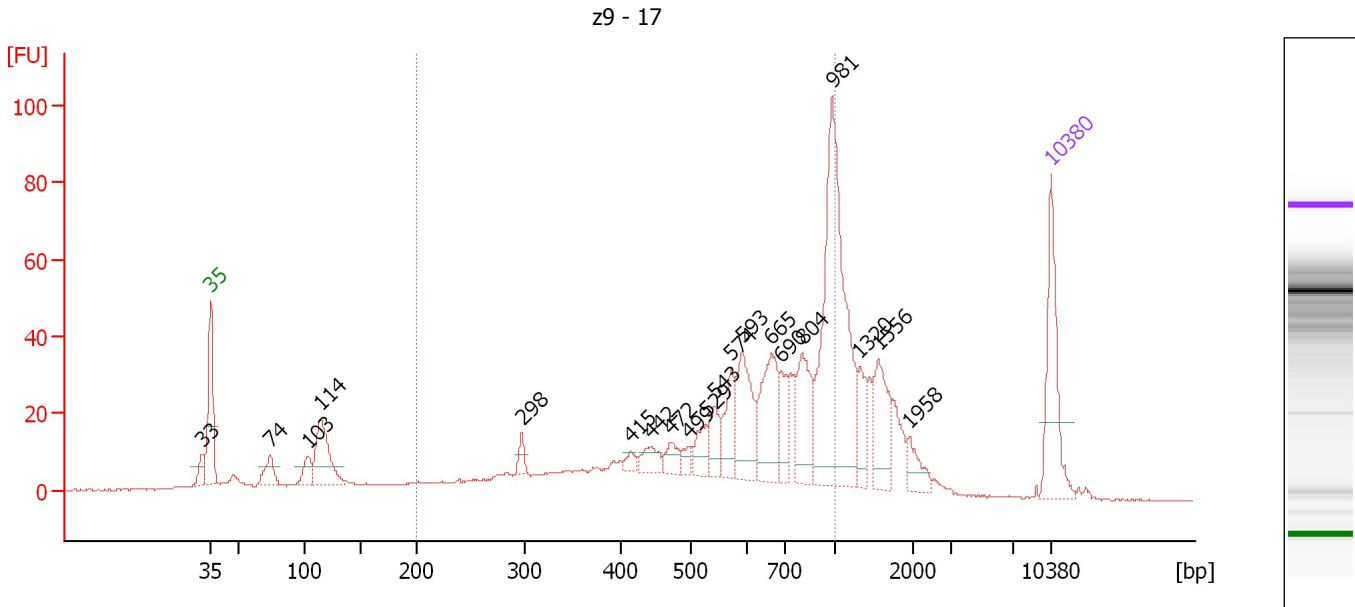
Peak table for Ladder

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	45.28
3	100	150.00	2,272.7	Ladder Peak	50.79
4	150	150.00	1,515.2	Ladder Peak	55.44
5	200	150.00	1,136.4	Ladder Peak	60.05
6	300	150.00	757.6	Ladder Peak	69.09
7	400	150.00	568.2	Ladder Peak	77.15
8	500	150.00	454.5	Ladder Peak	82.92
9	600	150.00	378.8	Ladder Peak	87.58
10	700	150.00	324.7	Ladder Peak	90.80
11	1,000	150.00	227.3	Ladder Peak	95.01
12	2,000	150.00	113.6	Ladder Peak	101.41
13	3,000	150.00	75.8	Ladder Peak	104.72
14	7,000	150.00	32.5	Ladder Peak	109.82
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
 Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : z9 - 17

Number of peaks found: 20 Corr. Area 1: 667.2
 Noise: 0.2

Peak table for sample 1 : z9 - 17

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.29
2	35	125.00	5,411.3	Lower Marker	43.00
3	74	33.60	687.5		47.93
4	103	26.85	394.3		51.08
5	114	98.04	1,306.8		52.06
6	298	13.84	70.4		68.89
7	415	8.47	31.0		78.00
8	442	21.94	75.1		79.60
9	472	19.07	61.3		81.29
10	499	11.71	35.6		82.84
11	529	25.77	73.8		84.26
12	543	30.90	86.2		84.93
13	574	45.90	121.2		86.35
14	593	77.30	197.6		87.24
15	665	84.57	192.6		89.68
16	690	32.84	72.1		90.48
17	804	68.59	129.3		92.26
18	981	283.83	438.3		94.74
19	1,320	32.17	36.9		97.05
20	1,556	56.89	55.4		98.56
21	1,958	20.34	15.7		101.14
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary Continued ...

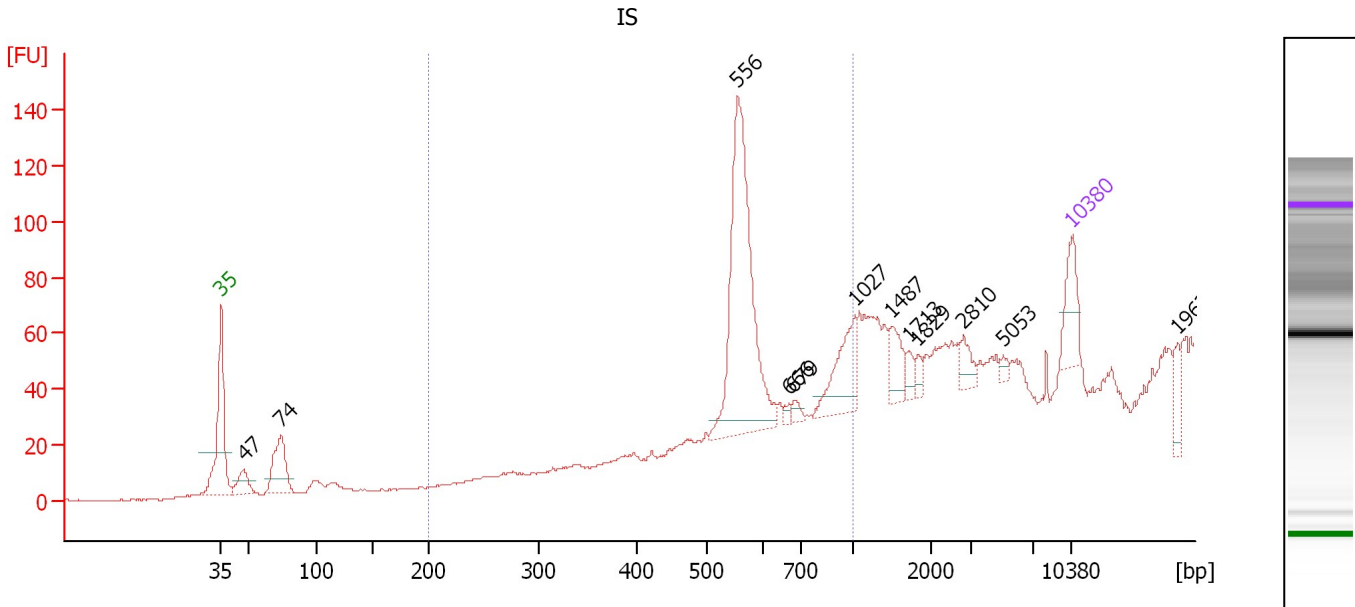
... Region table for sample 1 : z9 - 17

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	636	667.2	2,911.8	■ 981.67	61	33.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
 Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : IS

Number of peaks found: 12 Corr. Area 1: 260.8
 Noise: 0.3

Peak table for sample 2 : IS

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	47	67.75	2,178.8		44.84
3	74	166.92	3,421.9		47.92
4	556	610.68	1,664.4		85.53
5	666	10.36	23.6		89.70
6	679	14.96	33.4		90.13
7	1,027	129.32	190.7		95.18
8	1,487	60.25	61.4		98.12
9	1,713	23.05	20.4		99.57
10	1,829	15.65	13.0		100.32
11	2,810	34.45	18.6		104.09
12	5,053	10.54	3.2		107.34
13	10,380	75.00	10.9	Upper Marker	113.00
14	19,623	0.00	0.0		121.69

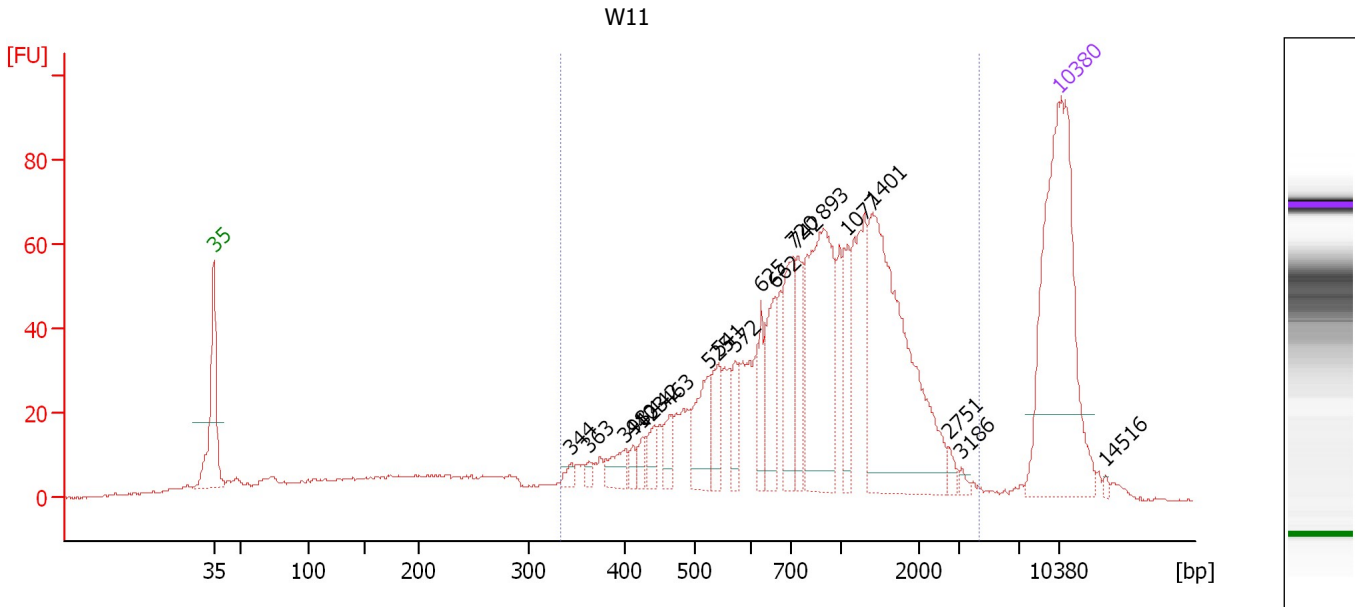
Region table for sample 2 : IS

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	617	260.8	1,410.5	550.47	56	21.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
 Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : W11

Number of peaks found: 20 Corr. Area 1: 1,220.1
 Noise: 0.3

Peak table for sample 3 : W11

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	344	3.02	13.3		72.65
3	363	2.31	9.7		74.16
4	398	8.14	31.0		77.03
5	410	3.00	11.1		77.73
6	423	3.68	13.2		78.49
7	442	6.54	22.4		79.55
8	463	6.98	22.8		80.78
9	525	18.59	53.6		84.10
10	541	12.82	35.9		84.85
11	572	9.11	24.1		86.26
12	625	9.67	23.4		88.39
13	662	19.44	44.5		89.58
14	720	25.67	54.0		91.08
15	742	15.80	32.3		91.39
16	893	61.42	104.2		93.51
17	1,077	15.03	21.1		95.50
18	1,401	85.79	92.7		97.58
19	2,751	2.18	1.2		103.90
20	3,186	1.36	0.6		104.96
21	10,380	75.00	10.9	Upper Marker	113.00
22	14,516	0.00	0.0		116.89

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary Continued ...

... Region table for sample 3 :

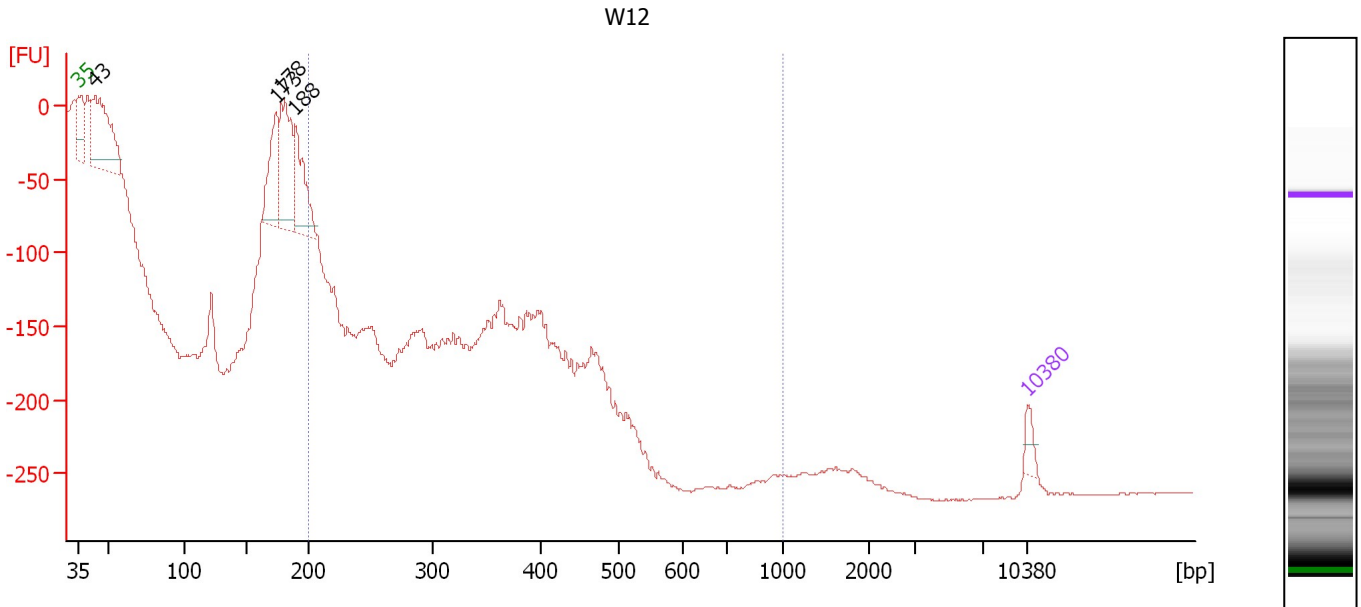
W11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
334	4,323	1,020	1,220.0	927.9	447.35	82	56.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
 Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : W12

Number of peaks found: 4 Corr. Area 1: 0.0
 Noise: 0.4

Peak table for sample 4 : W12

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	43	1,397.37	48,946.6		44.26
3	173	604.96	5,284.5		57.60
4	178	873.58	7,448.2		58.00
5	188	647.04	5,204.9		58.98
6	10,380	75.00	10.9	Upper Marker	113.00

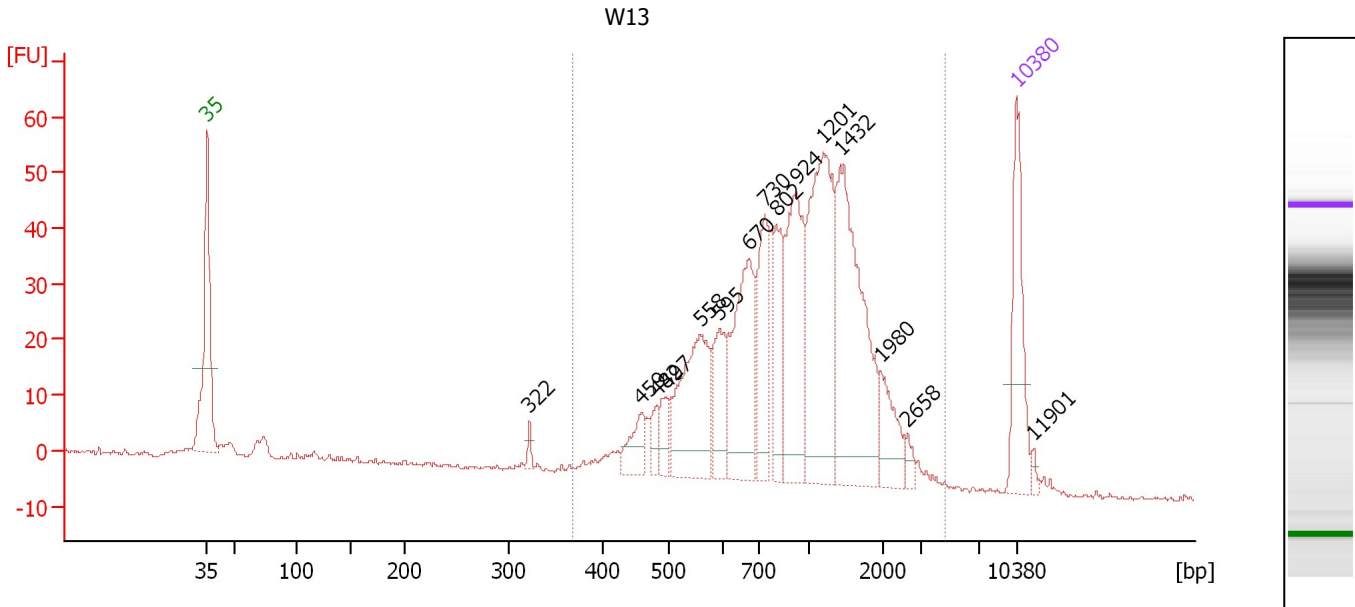
Region table for sample 4 : W12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	0	0.0	0.0	0.00	0	0.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
 Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : W13

Number of peaks found: 15 Corr. Area 1: 852.2
 Noise: 0.4

Peak table for sample 5 : W13

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	322	7.77	36.6		70.87
3	459	34.88	115.1		80.56
4	482	19.11	60.1		81.90
5	497	23.52	71.7		82.73
6	558	135.32	367.2		85.64
7	595	55.19	140.6		87.34
8	670	146.34	330.9		89.84
9	730	92.47	192.0		91.22
10	802	66.49	125.6		92.24
11	924	139.85	229.3		93.94
12	1,201	205.09	258.7		96.30
13	1,432	202.89	214.7		97.77
14	1,980	40.98	31.4		101.28
15	2,658	9.11	5.2		103.59
16	10,380	75.00	10.9	Upper Marker	113.00
17	11,901	0.00	0.0		114.43

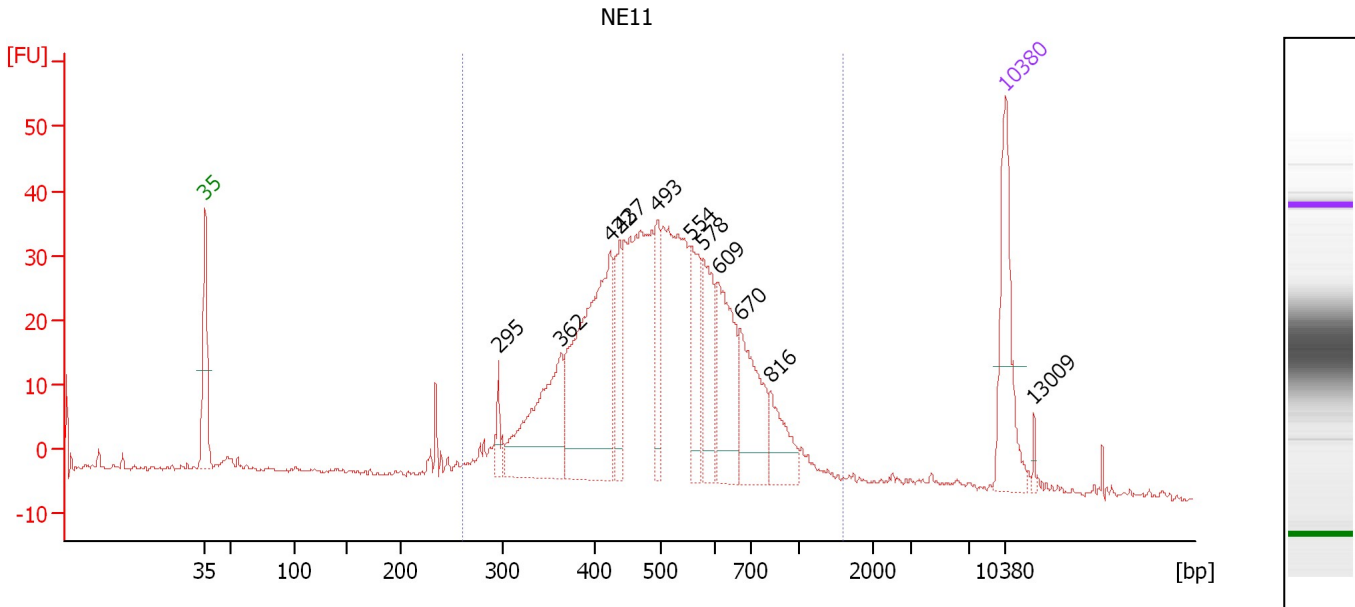
Region table for sample 5 : W13

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
369	4,672	1,052	852.2	2,353.0	1,257.36	93	50.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
 Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : NE11

Number of peaks found: 11 Corr. Area 1: 847.5
 Noise: 0.4

Peak table for sample 6 : NE11

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	295	17.62	90.5		68.65
3	362	148.03	619.2		74.11
4	422	261.32	939.1		78.40
5	437	55.84	193.6		79.28
6	493	51.44	157.9		82.55
7	554	71.93	196.7		85.44
8	578	73.16	191.7		86.56
9	609	100.26	249.5		87.86
10	670	89.30	202.1		89.82
11	816	43.94	81.5		92.43
12	10,380	75.00	10.9	Upper Marker	113.00
13	13,009	0.00	0.0		115.47

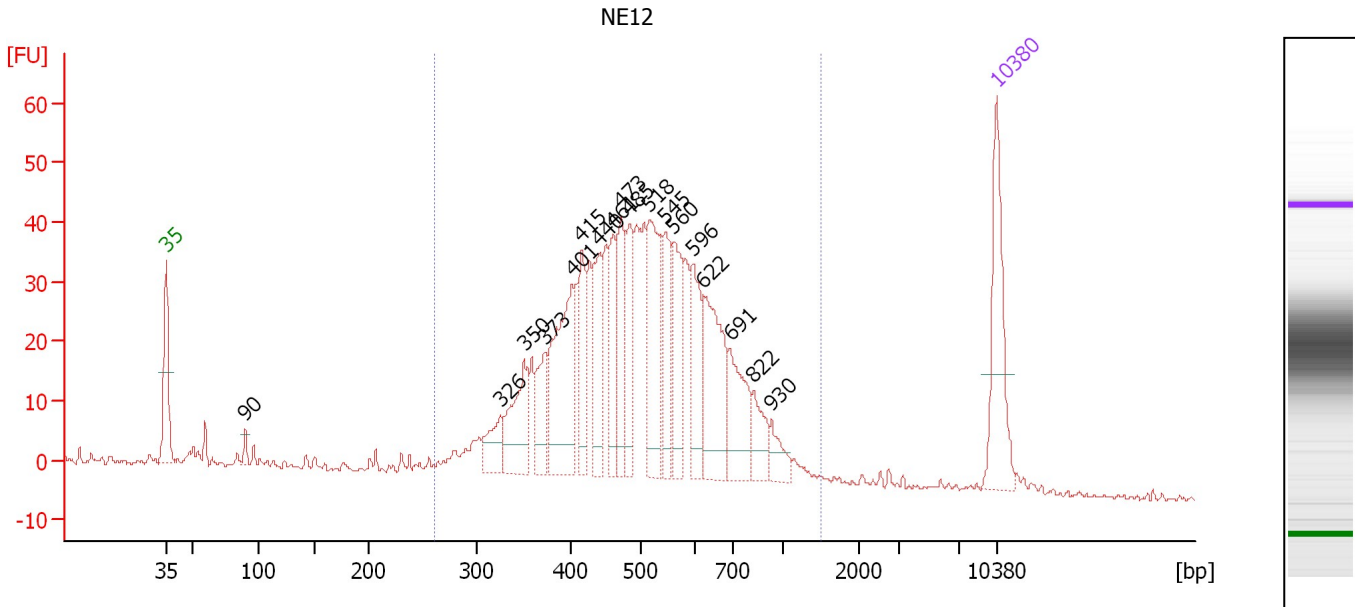
Region table for sample 6 : NE11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
261	1,581	523	847.5	4,752.2	1,465.59	88	32.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
 Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : NE12

Number of peaks found: 18 Corr. Area 1: 835.9
 Noise: 0.6

Peak table for sample 7 : NE12

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	90	9.80	165.2		49.67
3	326	36.11	168.0		71.16
4	350	68.74	297.3		73.15
5	373	45.61	185.4		74.95
6	401	135.26	510.8		77.22
7	415	56.20	205.1		78.02
8	440	61.02	210.2		79.44
9	461	61.27	201.4		80.67
10	473	59.72	191.5		81.34
11	485	58.87	184.0		82.05
12	518	105.90	309.9		83.75
13	545	49.00	136.2		85.03
14	560	69.91	189.0		85.74
15	596	60.90	154.8		87.39
16	622	103.17	251.2		88.29
17	691	66.25	145.2		90.52
18	822	30.62	56.5		92.51
19	930	19.50	31.8		94.02
20	10,380	75.00	10.9	Upper Marker	113.00

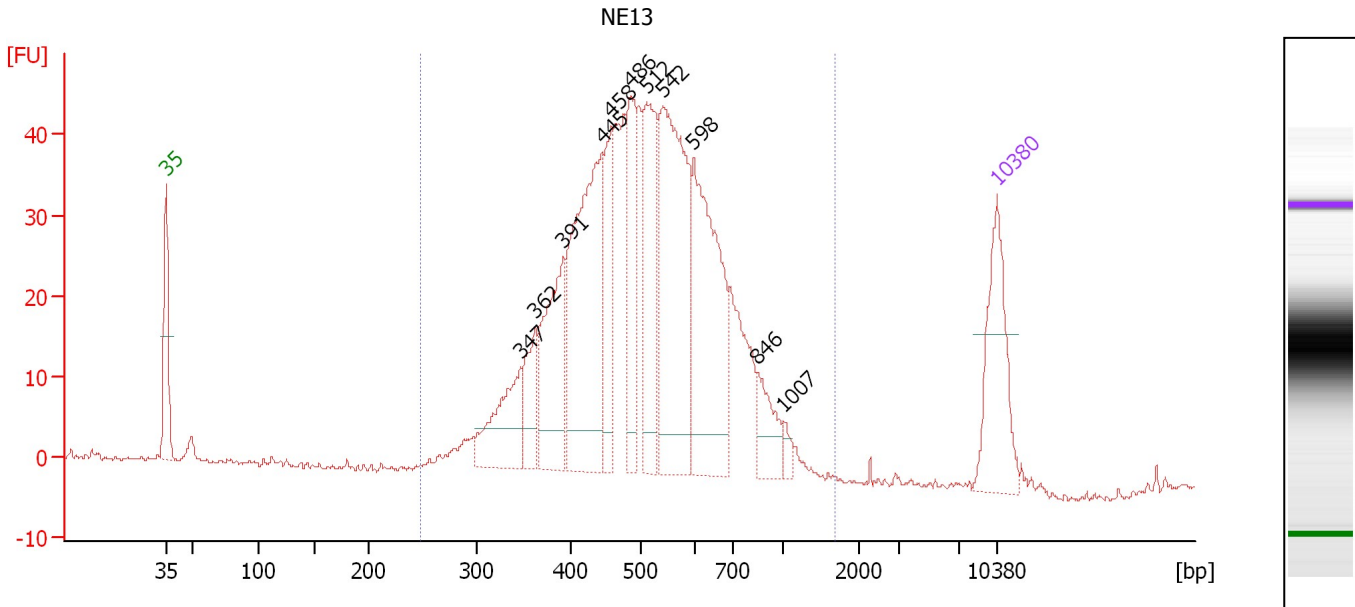
Region table for sample 7 : NE12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
261	1,506	520	835.9	4,585.2	1,434.00	94	28.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
 Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : NE13

Number of peaks found: 11 Corr. Area 1: 875.1
 Noise: 0.4

Peak table for sample 8 : NE13

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	347	81.65	356.9		72.85
3	362	48.39	202.4		74.11
4	391	116.44	450.8		76.45
5	445	241.64	823.2		79.73
6	458	78.27	259.1		80.48
7	486	89.88	280.1		82.12
8	512	122.59	362.8		83.48
9	542	235.88	659.1		84.89
10	598	184.60	468.1		87.46
11	846	35.60	63.7		92.85
12	1,007	8.58	12.9		95.05
13	10,380	75.00	10.9	Upper Marker	113.00

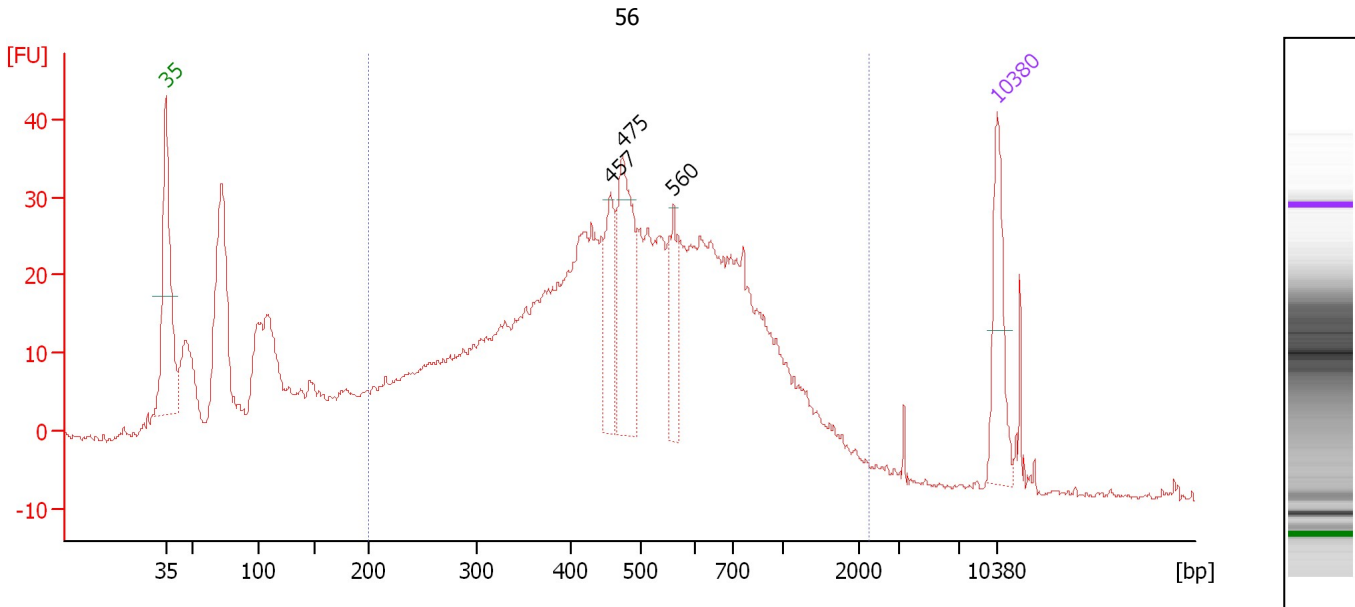
Region table for sample 8 : NE13

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
248	1,671	526	875.1	4,870.1	1,543.91	98	28.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
 Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : 56

Height Threshold [FU] : 30

Overall Results for sample 10 : 56

Number of peaks found: 3 Corr. Area 1: 983.0
 Noise: 0.4

Peak table for sample 10 : 56

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	457	88.53	293.4		80.45
3	475	164.62	525.3		81.47
4	560	50.39	136.2		85.74
5	10,380	75.00	10.9	Upper Marker	113.00

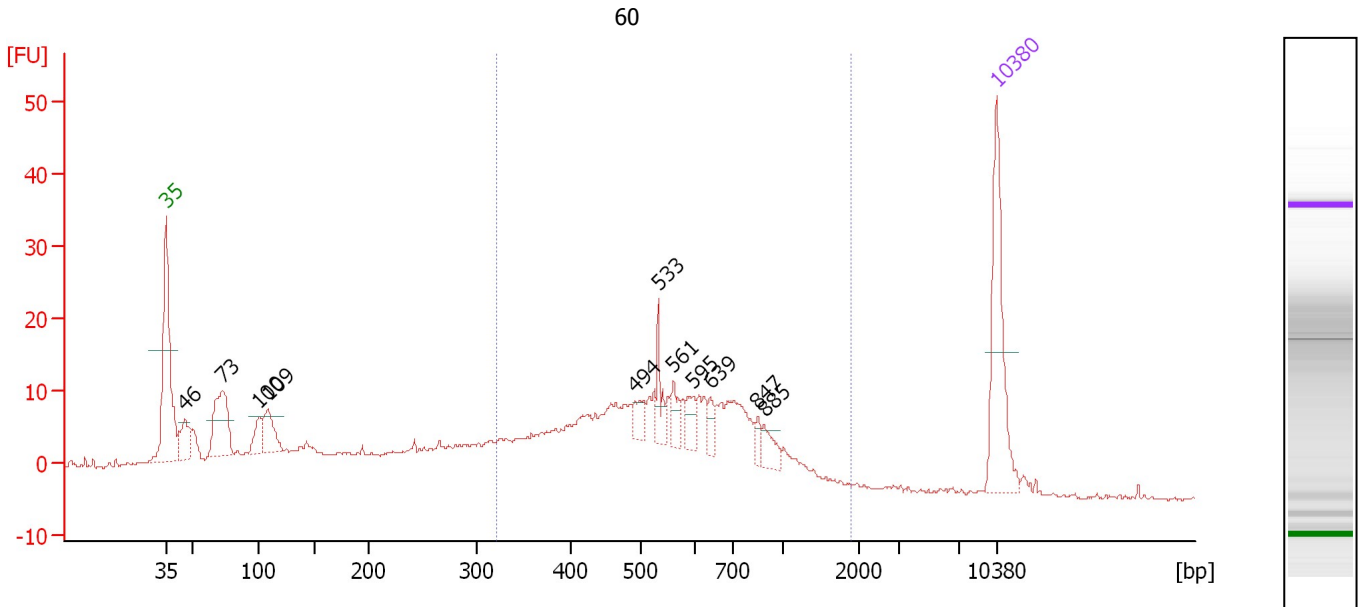
Region table for sample 10 : 56

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	2,257	554	983.0	8,948.5	2,483.48	75	53.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
 Modified: 12/11/2017 4:19:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 60

Number of peaks found: 11 Corr. Area 1: 284.3
 Noise: 0.3

Peak table for sample 11 : 60

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	46	30.07	1,000.2		44.61
3	73	77.34	1,614.7		47.77
4	100	21.23	320.1		50.83
5	109	34.81	484.6		51.61
6	494	13.69	42.0		82.55
7	533	21.49	61.1		84.45
8	561	15.05	40.6		85.76
9	595	15.06	38.3		87.36
10	639	10.45	24.8		88.82
11	847	7.65	13.7		92.86
12	885	13.70	23.5		93.40
13	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 60

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
322	1,878	594	284.3	1,773.0	599.98	55	39.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2100 expert\data\2017-12-11\2017-12-11_001_NEW.xad

Created: 12/11/2017 3:14:30 PM
Modified: 12/11/2017 4:19:13 PM

Gel Image

