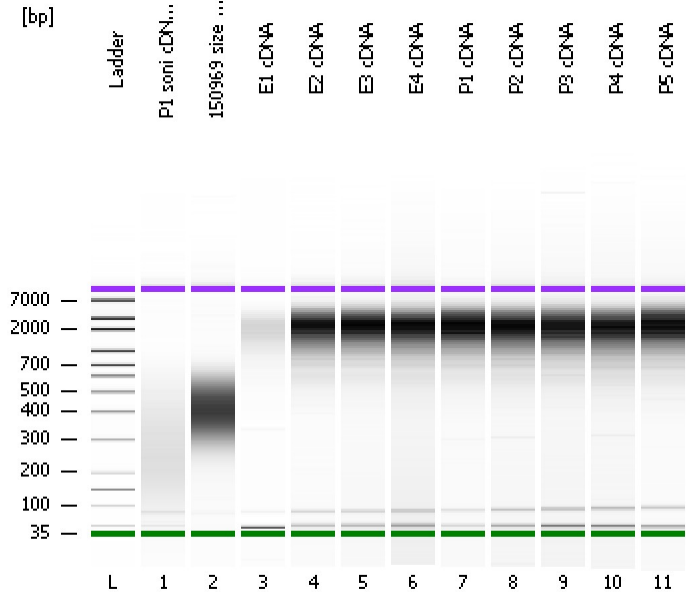


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
Modified: 9/8/2017 3:33:19 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

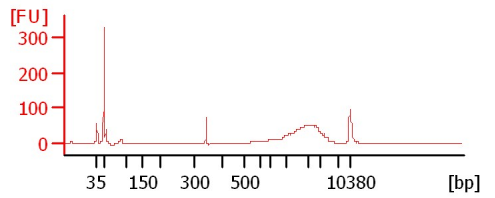
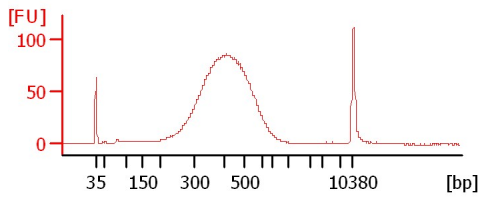
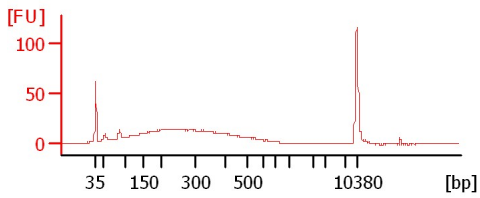
Chip Information:

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

P1 soni cDNA (5min)

150969 size selected soni DNA

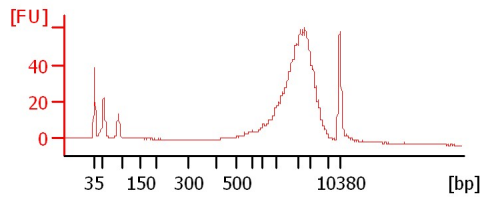
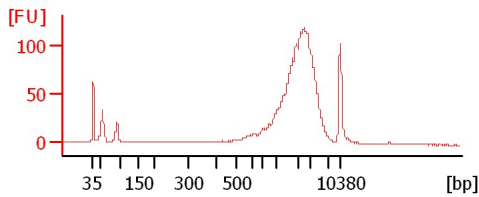
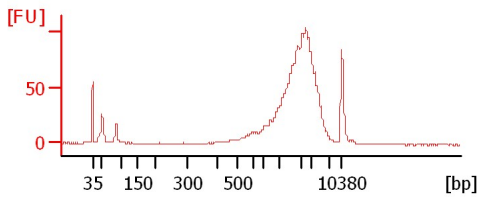
E1 cDNA



E2 cDNA

E3 cDNA

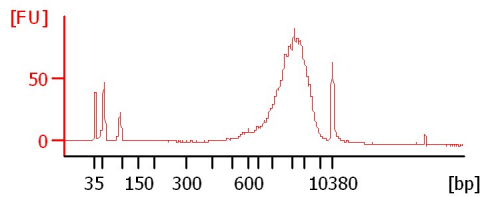
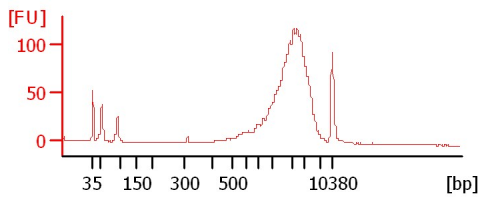
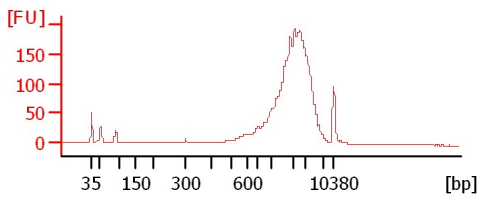
E4 cDNA



P1 cDNA

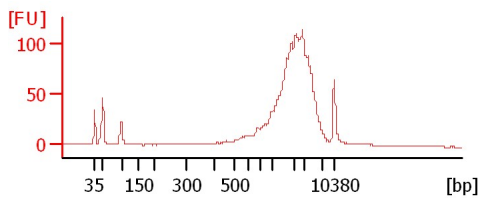
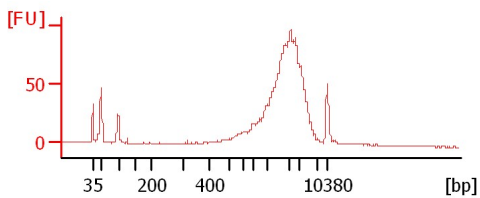
P2 cDNA

P3 cDNA



P4 cDNA

P5 cDNA



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
Modified: 9/8/2017 3:33:19 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P1 soni cDNA (5min)		<input type="checkbox"/>	✓			
150969 size selected soni DNA		<input type="checkbox"/>	✓			
E1 cDNA		<input type="checkbox"/>	✓			
E2 cDNA		<input type="checkbox"/>	✓			
E3 cDNA		<input type="checkbox"/>	✓			
E4 cDNA		<input type="checkbox"/>	✓			
P1 cDNA		<input type="checkbox"/>	✓			
P2 cDNA		<input type="checkbox"/>	✓			
P3 cDNA		<input type="checkbox"/>	✓			
P4 cDNA		<input type="checkbox"/>	✓			
P5 cDNA		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
Modified: 9/8/2017 3:33:19 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

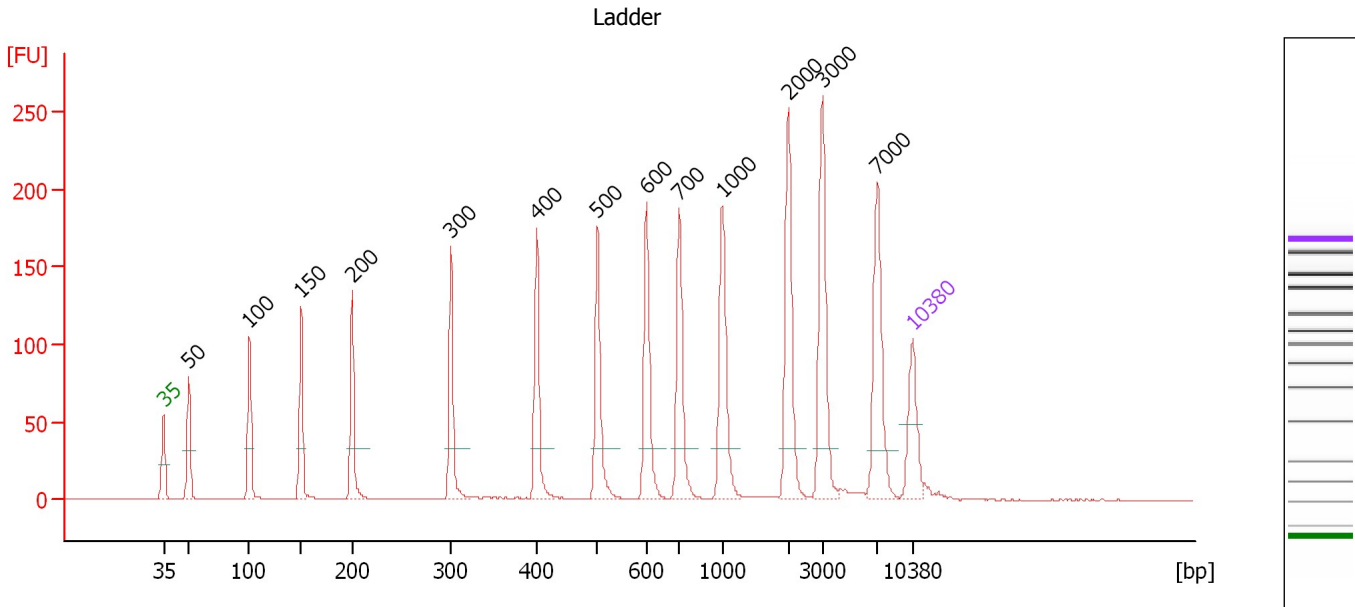
Ladder

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:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
 Modified: 9/8/2017 3:33:19 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

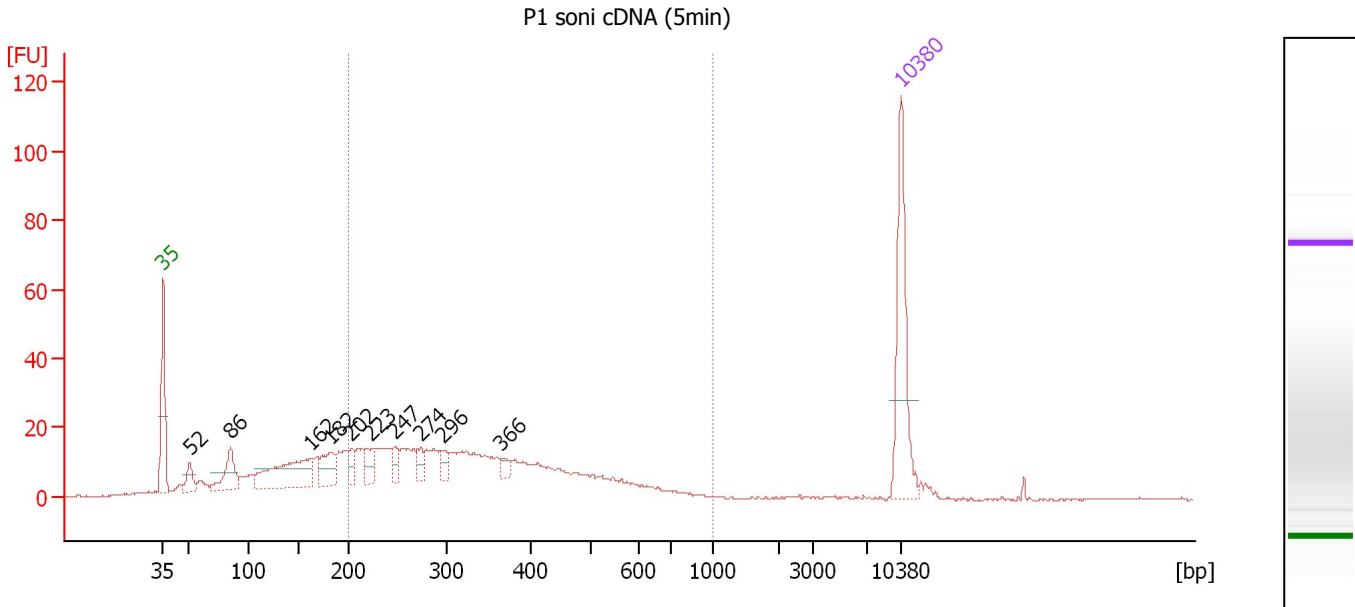
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	51.02
4	150	150.00	1,515.2	Ladder Peak	55.85
5	200	150.00	1,136.4	Ladder Peak	60.64
6	300	150.00	757.6	Ladder Peak	69.85
7	400	150.00	568.2	Ladder Peak	77.88
8	500	150.00	454.5	Ladder Peak	83.56
9	600	150.00	378.8	Ladder Peak	88.14
10	700	150.00	324.7	Ladder Peak	91.18
11	1,000	150.00	227.3	Ladder Peak	95.21
12	2,000	150.00	113.6	Ladder Peak	101.39
13	3,000	150.00	75.8	Ladder Peak	104.58
14	7,000	150.00	32.5	Ladder Peak	109.71
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
 Modified: 9/8/2017 3:33:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : P1 soni cDNA (5min)

Number of peaks found: 10 Corr. Area 1: 433.7
 Noise: 0.1

Peak table for sample 1 : P1 soni cDNA (5min)

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	20.76	608.9		45.53
3	86	45.39	800.3		49.42
4	162	89.91	843.2		56.96
5	182	33.53	278.9		58.93
6	202	14.83	111.3		60.80
7	223	19.43	131.9		62.78
8	247	13.10	80.2		65.00
9	274	11.31	62.6		67.43
10	296	12.86	65.8		69.50
11	366	7.74	32.1		75.12
12	10,380	75.00	10.9	Upper Marker	113.00

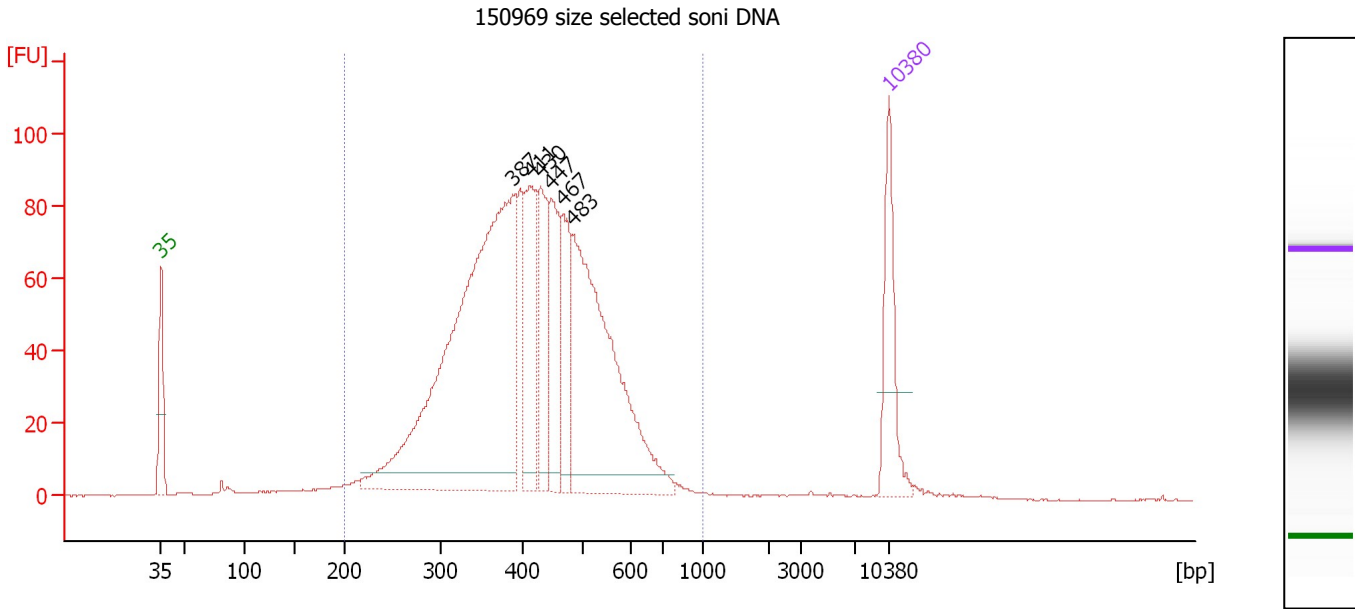
Region table for sample 1 : P1 soni cDNA (5min)

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	353	433.7	2,525.3	510.43	60	35.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
 Modified: 9/8/2017 3:33:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 150969 size selected soni DNA

Number of peaks found: 6 Corr. Area 1: 1,791.2
 Noise: 0.1

Peak table for sample 2 : 150969 size selected soni DNA

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	387	757.21	2,968.2		76.79
3	411	144.85	534.3		78.49
4	430	113.26	399.3		79.56
5	447	107.49	364.4		80.54
6	467	90.93	295.2		81.67
7	483	406.72	1,275.8		82.59
8	10,380	75.00	10.9	Upper Marker	113.00

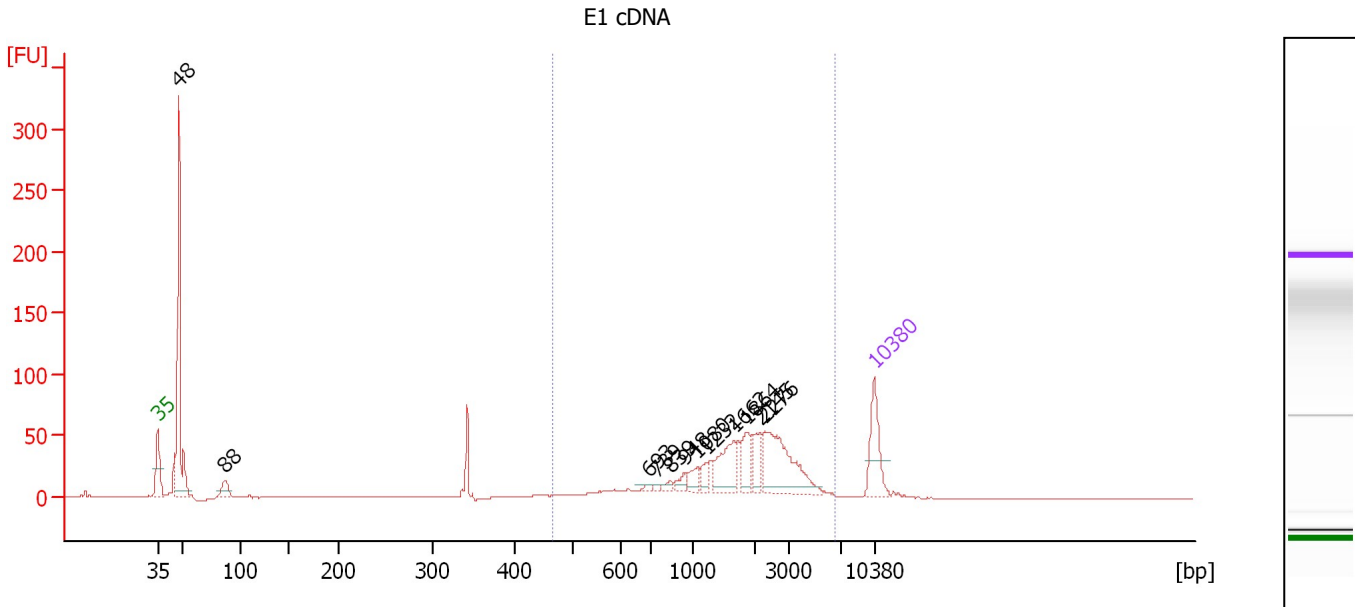
Region table for sample 2 : 150969 size selected soni DNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	421	1,791.2	7,266.6	1,866.91	96	23.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
 Modified: 9/8/2017 3:33:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : E1 cDNA

Number of peaks found: 12 Corr. Area 1: 571.1
 Noise: 0.2

Peak table for sample 3 : E1 cDNA

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	48	472.80	14,920.7		45.03
3	88	38.67	668.8		49.61
4	693	5.84	12.8		90.97
5	739	4.99	10.2		91.70
6	839	9.26	16.7		93.05
7	948	14.85	23.7		94.51
8	1,080	24.68	34.6		95.71
9	1,232	21.62	26.6		96.65
10	1,662	75.59	68.9		99.30
11	1,864	49.27	40.0		100.55
12	2,145	42.60	30.1		101.85
13	2,276	156.68	104.3		102.27
14	10,380	75.00	10.9	Upper Marker	113.00

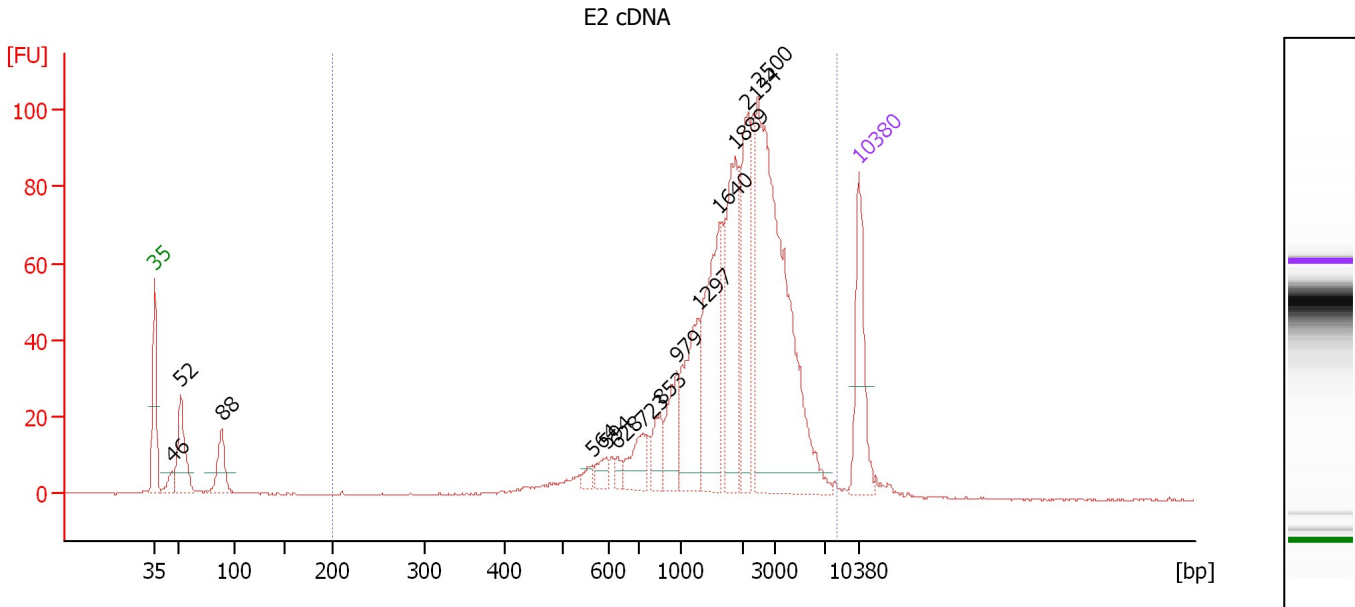
Region table for sample 3 : E1 cDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
464	5,686	1,996	571.1	616.7	575.91	63	53.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
 Modified: 9/8/2017 3:33:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : E2 cDNA

Number of peaks found: 14 Corr. Area 1: 1,033.3
 Noise: 0.1

Peak table for sample 4 : E2 cDNA

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	17.91	587.2		44.75
3	52	97.90	2,839.3		45.60
4	88	58.44	1,004.3		49.68
5	564	10.05	27.0		86.50
6	594	15.19	38.7		87.88
7	628	8.59	20.7		89.00
8	723	37.87	79.4		91.49
9	853	31.71	56.3		93.23
10	979	47.32	73.2		94.93
11	1,297	92.31	107.8		97.05
12	1,640	135.17	124.9		99.17
13	1,889	123.19	98.8		100.71
14	2,134	103.12	73.2		101.82
15	2,500	358.27	217.2		102.98
16	10,380	75.00	10.9	Upper Marker	113.00

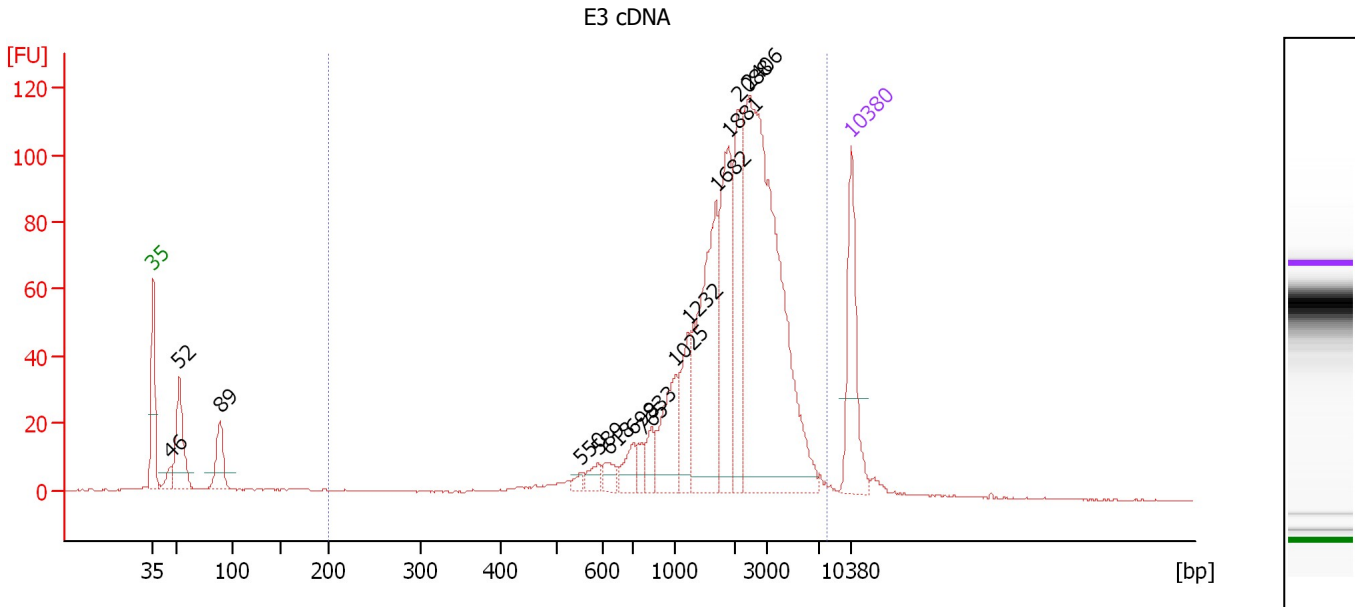
Region table for sample 4 : E2 cDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	8,169	2,200	1,033.3	1,210.2	1,152.60	91	57.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
 Modified: 9/8/2017 3:33:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : E3 cDNA

Number of peaks found: 15 Corr. Area 1: 1,177.4
 Noise: 0.2

Peak table for sample 5 : E3 cDNA

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	16.81	550.3		44.76
3	52	96.67	2,793.2		45.62
4	89	56.07	958.2		49.73
5	550	7.25	20.0		85.85
6	589	13.62	35.0		87.62
7	618	14.57	35.7		88.69
8	699	23.03	49.9		91.15
9	765	12.81	25.4		92.05
10	833	19.02	34.6		92.96
11	1,025	61.66	91.2		95.37
12	1,232	48.24	59.3		96.65
13	1,682	156.09	140.6		99.43
14	1,881	110.78	89.2		100.66
15	2,088	95.27	69.1		101.67
16	2,406	383.75	241.6		102.69
17	10,380	75.00	10.9	Upper Marker	113.00

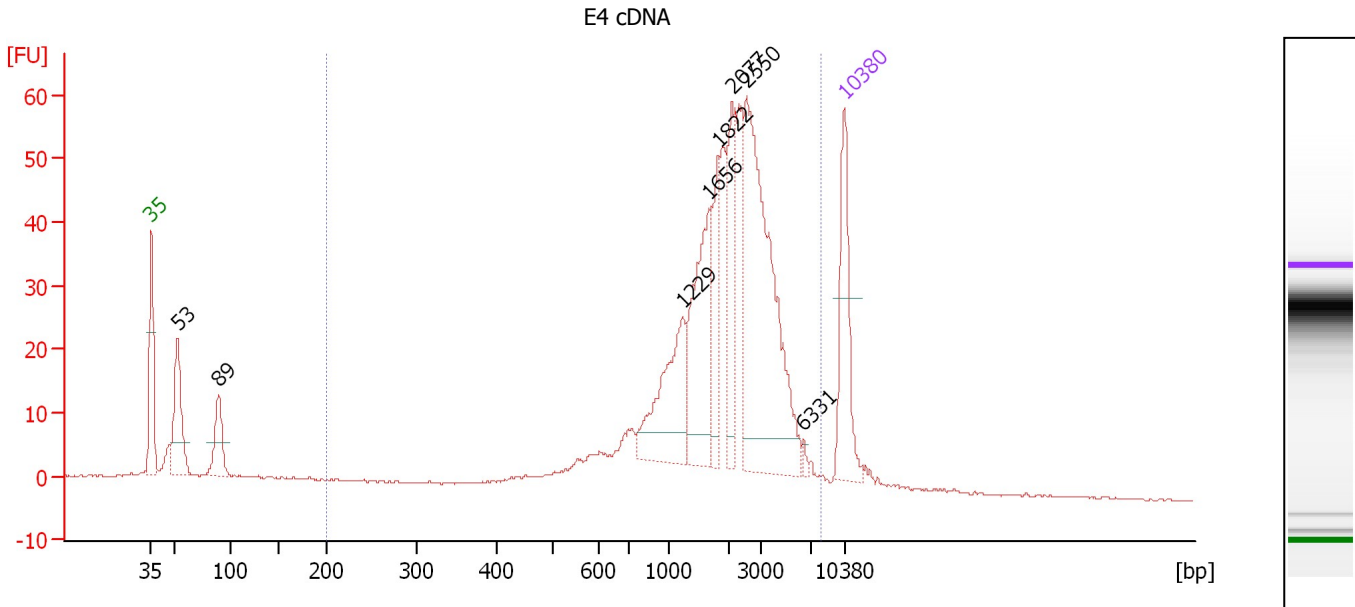
Region table for sample 5 : E3 cDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	7,892	2,265	1,177.4	1,084.4	1,029.77	89	55.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
 Modified: 9/8/2017 3:33:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : E4 cDNA

Number of peaks found: 8 Corr. Area 1: 621.3
 Noise: 0.2

Peak table for sample 6 : E4 cDNA

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	53	107.80	3,104.4		45.64
3	89	60.37	1,026.4		49.78
4	1,229	102.98	126.9		96.63
5	1,656	112.43	102.8		99.27
6	1,822	54.46	45.3		100.29
7	2,077	68.10	49.7		101.64
8	2,550	250.04	148.5		103.15
9	6,331	3.48	0.8		108.85
10	10,380	75.00	10.9	Upper Marker	113.00

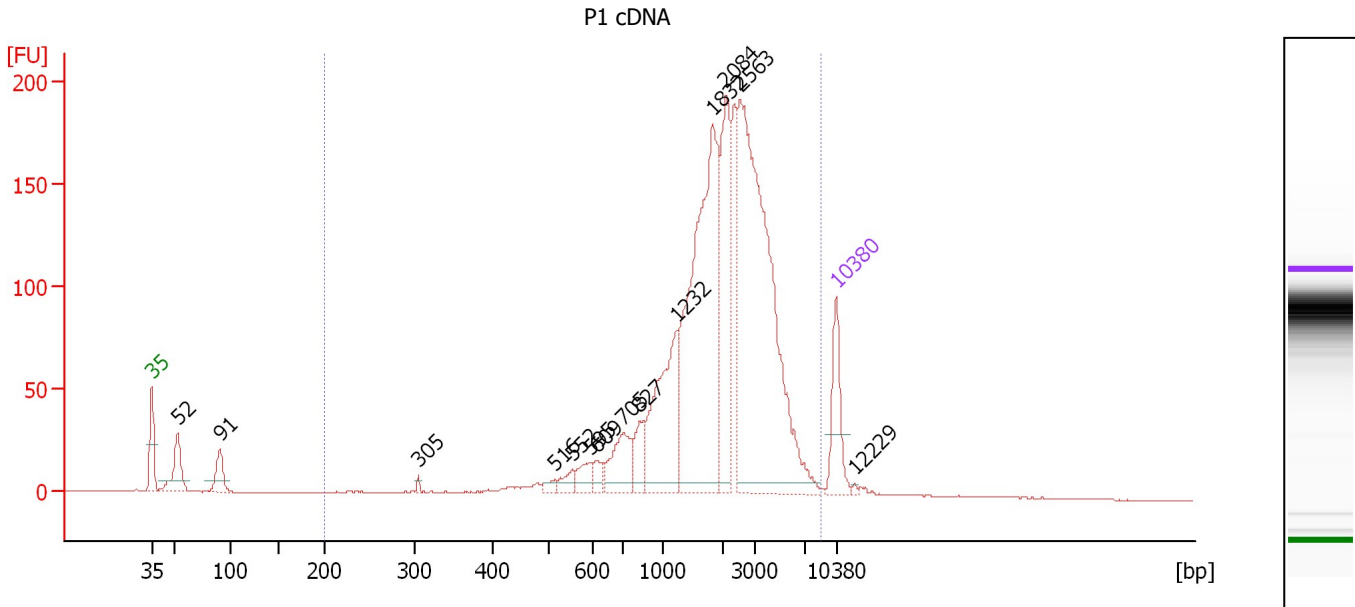
Region table for sample 6 : E4 cDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	7,971	2,222	621.3	970.6	921.66	86	57.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
 Modified: 9/8/2017 3:33:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : P1 cDNA

Number of peaks found: 14 Corr. Area 1: 2,054.0
 Noise: 0.1

Peak table for sample 7 : P1 cDNA

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	102.49	2,962.1		45.62
3	91	64.65	1,078.6		49.98
4	305	5.13	25.5		70.26
5	516	11.30	33.2		84.27
6	552	20.54	56.3		85.96
7	595	30.51	77.6		87.92
8	609	20.31	50.5		88.41
9	705	85.89	184.5		91.25
10	827	46.46	85.1		92.88
11	1,232	205.49	252.8		96.64
12	1,832	526.65	435.6		100.35
13	2,084	202.88	147.5		101.66
14	2,563	667.87	394.8		103.19
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,229	0.00	0.0		114.80

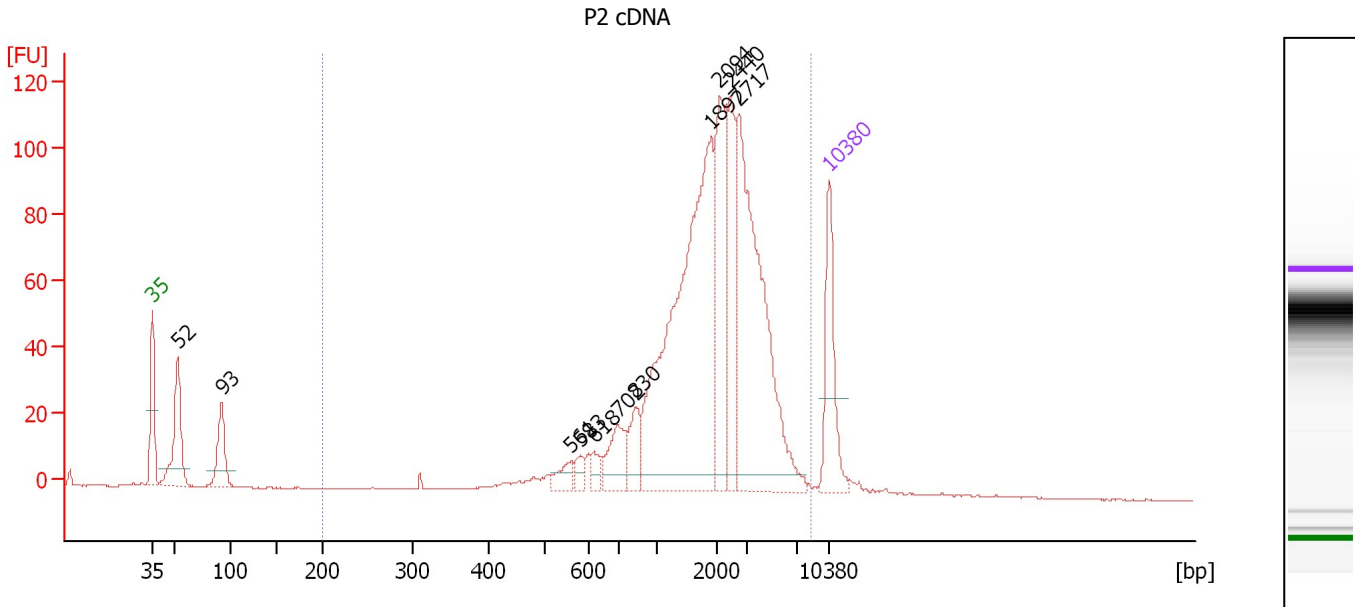
Region table for sample 7 : P1 cDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	8,782	2,315	2,054.0	2,199.2	2,075.98	94	59.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
 Modified: 9/8/2017 3:33:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : P2 cDNA

Number of peaks found: 11 Corr. Area 1: 1,240.9
 Noise: 0.2

Peak table for sample 8 : P2 cDNA

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	124.57	3,615.2		45.59
3	93	74.57	1,221.3		50.17
4	561	19.19	51.8		86.36
5	583	12.89	33.5		87.35
6	618	13.97	34.3		88.67
7	702	48.82	105.3		91.21
8	830	35.50	64.8		92.92
9	1,897	423.84	338.6		100.75
10	2,094	120.73	87.3		101.69
11	2,440	104.34	64.8		102.80
12	2,717	296.45	165.3		103.68
13	10,380	75.00	10.9	Upper Marker	113.00

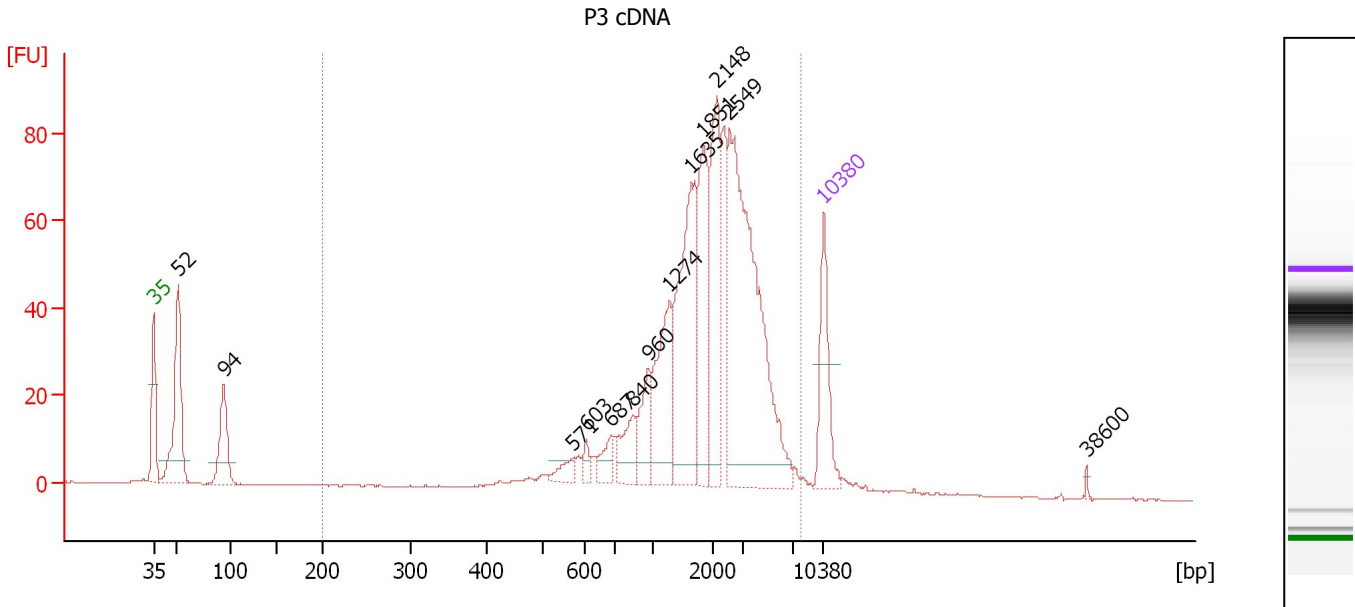
Region table for sample 8 : P2 cDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	8,496	2,221	1,240.9	1,253.7	1,183.34	90	58.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
 Modified: 9/8/2017 3:33:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : P3 cDNA

Number of peaks found: 13 Corr. Area 1: 912.0
 Noise: 0.1

Peak table for sample 9 : P3 cDNA

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	213.37	6,224.5		45.56
3	94	106.19	1,709.9		50.35
4	571	19.18	50.9		86.83
5	603	12.38	31.1		88.22
6	687	26.78	59.1		90.78
7	840	44.00	79.4		93.06
8	960	54.43	85.9		94.68
9	1,274	113.07	134.5		96.91
10	1,635	211.51	196.1		99.13
11	1,851	119.05	97.5		100.47
12	2,148	133.31	94.1		101.86
13	2,549	378.64	225.0		103.14
14	10,380	75.00	10.9	Upper Marker	113.00
15	38,600	0.00	0.0		140.45

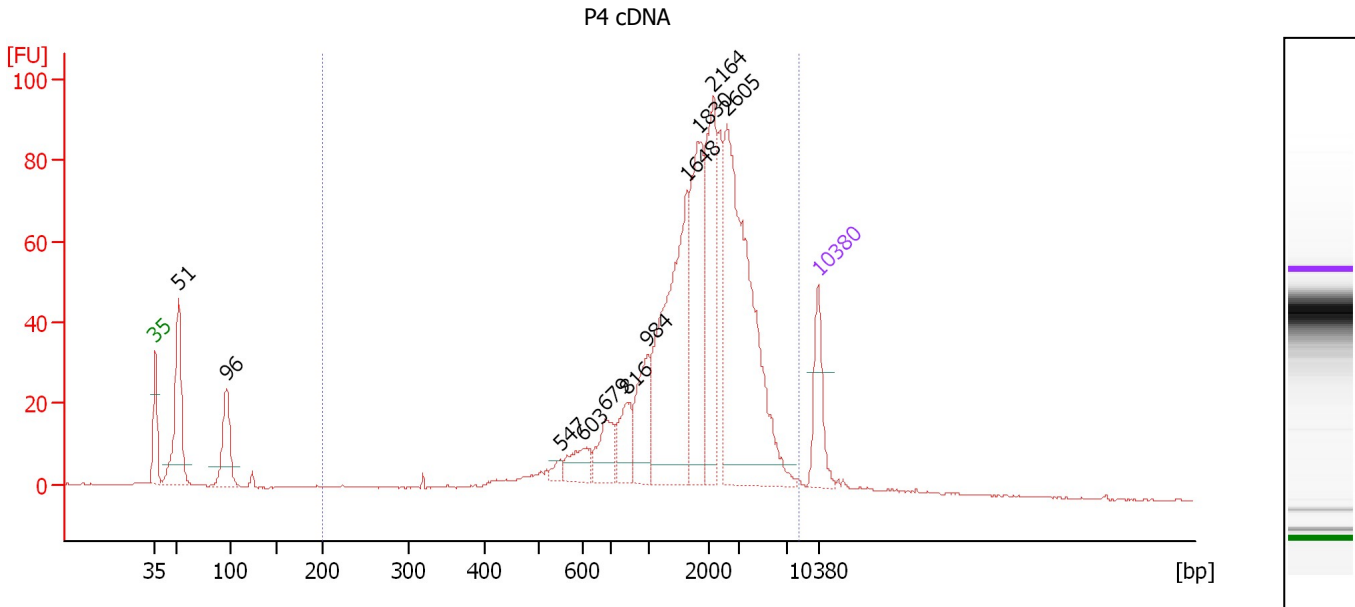
Region table for sample 9 : P3 cDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	7,980	2,229	912.0	1,421.6	1,338.34	86	58.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

Created: 9/8/2017 2:37:53 PM
 Modified: 9/8/2017 3:33:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : P4 cDNA

Number of peaks found: 11 Corr. Area 1: 1,019.8
 Noise: 0.2

Peak table for sample 10 : P4 cDNA

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	51	259.89	7,693.6		45.48
3	96	140.82	2,228.0		50.54
4	547	14.63	40.5		85.71
5	603	49.56	124.5		88.24
6	679	69.33	154.6		90.55
7	816	64.39	119.5		92.74
8	984	94.23	145.1		94.99
9	1,648	338.40	311.2		99.21
10	1,830	216.74	179.5		100.34
11	2,164	199.95	140.0		101.91
12	2,605	463.63	269.6		103.32
13	10,380	75.00	10.9	Upper Marker	113.00

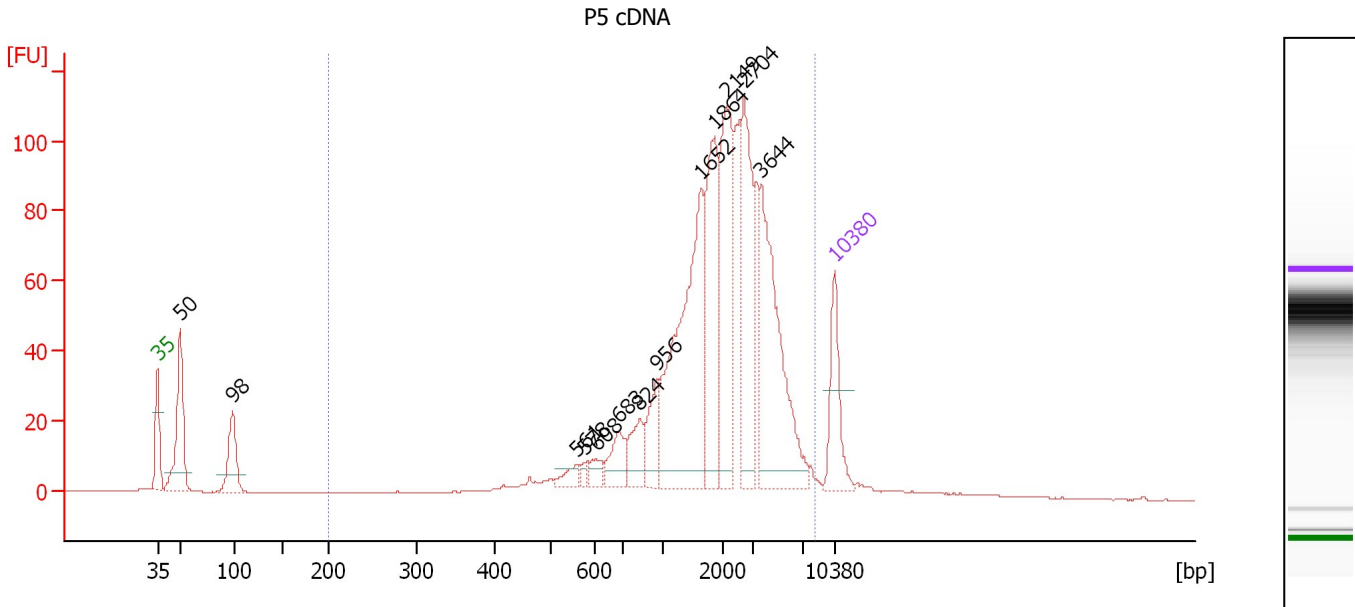
Region table for sample 10 : P4 cDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	8,317	2,140	1,019.8	2,093.9	1,831.50	87	60.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

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 Modified: 9/8/2017 3:33:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : P5 cDNA

Number of peaks found: 13 Corr. Area 1: 1,193.2
 Noise: 0.1

Peak table for sample 11 : P5 cDNA

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	199.39	6,042.7		45.34
3	98	106.40	1,649.3		50.77
4	561	18.85	50.9		86.34
5	578	10.07	26.4		87.14
6	608	20.78	51.8		88.39
7	683	50.54	112.0		90.68
8	824	52.43	96.4		92.85
9	956	60.69	96.2		94.62
10	1,652	333.25	305.7		99.24
11	1,864	183.16	148.9		100.55
12	2,149	196.16	138.3		101.87
13	2,704	178.81	100.2		103.64
14	3,644	254.26	105.7		105.41
15	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : P5 cDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	8,230	2,370	1,193.2	1,721.6	1,692.05	89	60.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-08\2017-09-08_001.xad

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Gel Image

