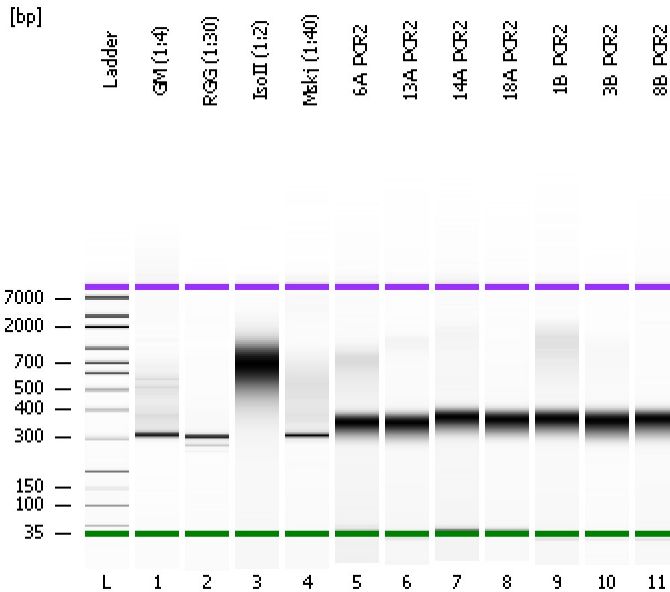


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
Modified: 3/21/2018 3:23:41 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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

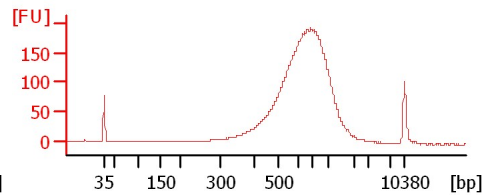
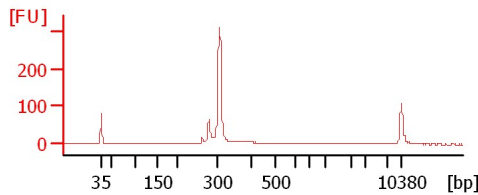
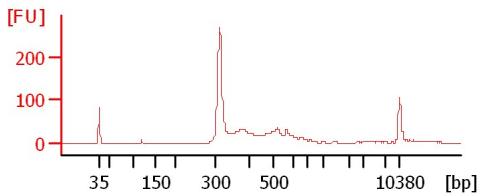
Chip Information:

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

GM (1:4)

RGG (1:30)

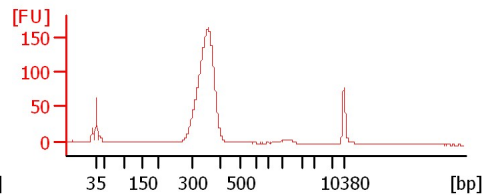
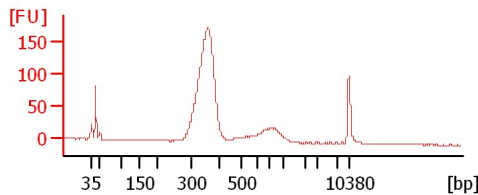
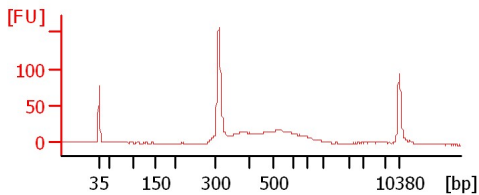
IsoII (1:2)



Mskj (1:40)

6A_PCR2

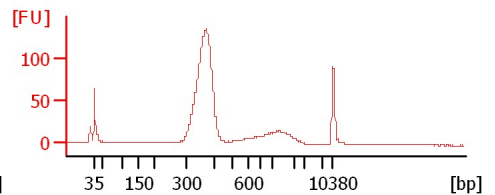
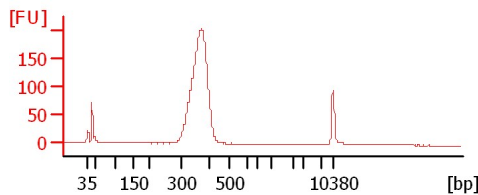
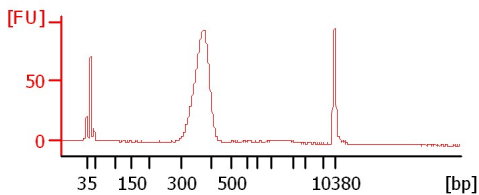
13A_PCR2



14A_PCR2

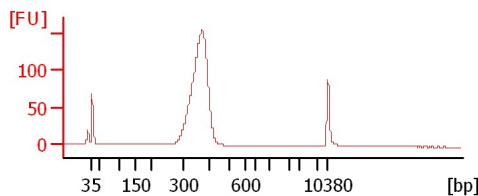
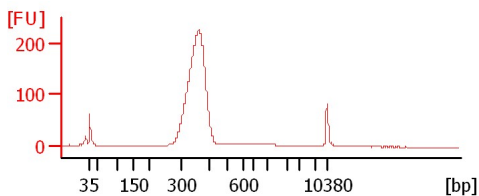
18A_PCR2

1B_PCR2



3B_PCR2

8B_PCR2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
Modified: 3/21/2018 3:23:41 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
GM (1:4)		<input type="checkbox"/>	✓			
RGG (1:30)		<input type="checkbox"/>	✓			
IsoII (1:2)		<input type="checkbox"/>	✓			
Mskj (1:40)		<input type="checkbox"/>	✓			
6A_PCR2		<input type="checkbox"/>	✓			
13A_PCR2		<input type="checkbox"/>	✓			
14A_PCR2		<input type="checkbox"/>	✓			
18A_PCR2		<input type="checkbox"/>	✓			
1B_PCR2		<input type="checkbox"/>	✓			
3B_PCR2		<input type="checkbox"/>	✓			
8B_PCR2		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

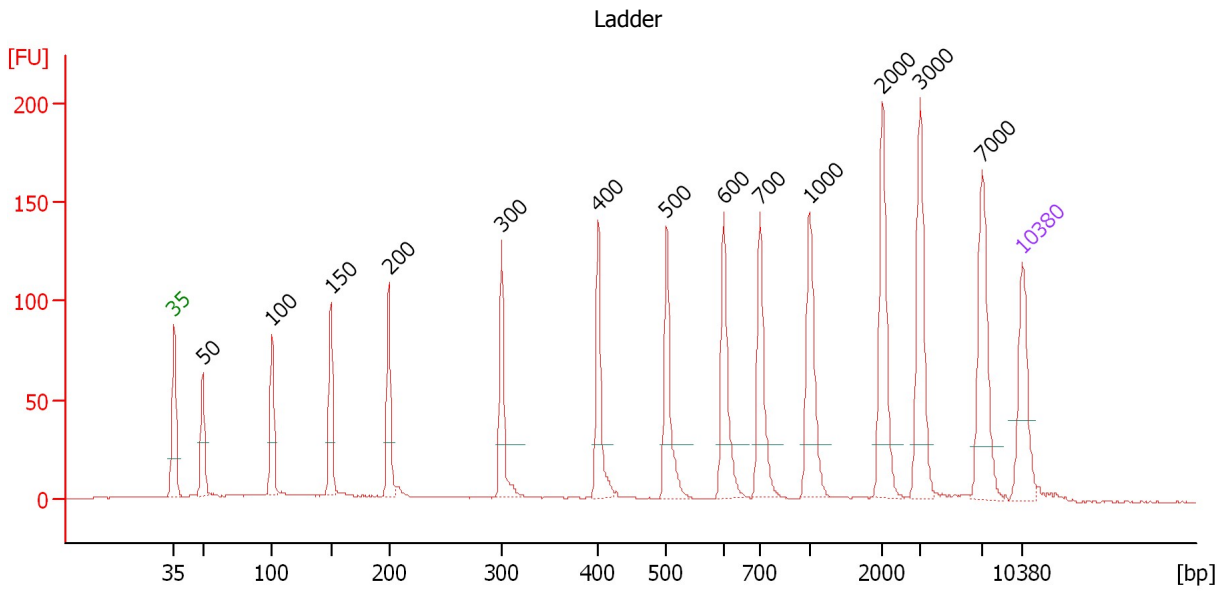
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
 Modified: 3/21/2018 3:23:41 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

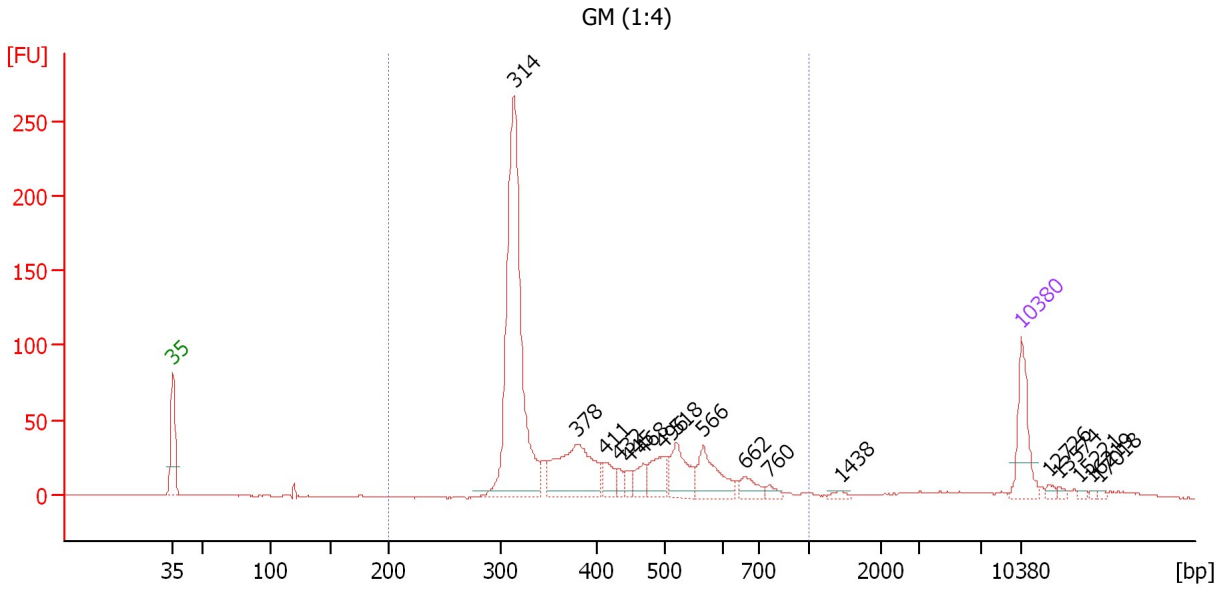
Peak table for Ladder

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	45.35
3	100	150.00	2,272.7	Ladder Peak	51.09
4	150	150.00	1,515.2	Ladder Peak	55.93
5	200	150.00	1,136.4	Ladder Peak	60.72
6	300	150.00	757.6	Ladder Peak	70.00
7	400	150.00	568.2	Ladder Peak	78.00
8	500	150.00	454.5	Ladder Peak	83.65
9	600	150.00	378.8	Ladder Peak	88.34
10	700	150.00	324.7	Ladder Peak	91.36
11	1,000	150.00	227.3	Ladder Peak	95.43
12	2,000	150.00	113.6	Ladder Peak	101.46
13	3,000	150.00	75.8	Ladder Peak	104.57
14	7,000	150.00	32.5	Ladder Peak	109.70
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
 Modified: 3/21/2018 3:23:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : GM (1:4)

Number of peaks found: 17 Corr. Area 1: 1,079.2
 Noise: 0.4

Peak table for sample 1 : GM (1:4)

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	314	673.11	3,245.0		71.15
3	378	197.58	791.2		76.27
4	411	37.54	138.4		78.61
5	432	16.82	59.1		79.78
6	445	16.33	55.5		80.56
7	468	32.53	105.4		81.83
8	496	58.82	179.6		83.44
9	518	81.79	239.1		84.51
10	566	81.21	217.3		86.76
11	662	27.55	63.0		90.22
12	760	10.85	21.6		92.17
13	1,438	6.34	6.7		98.07
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,726	0.00	0.0		115.29
16	13,574	0.00	0.0		116.12
17	15,221	0.00	0.0		117.73
18	16,219	0.00	0.0		118.71
19	17,018	0.00	0.0		119.49

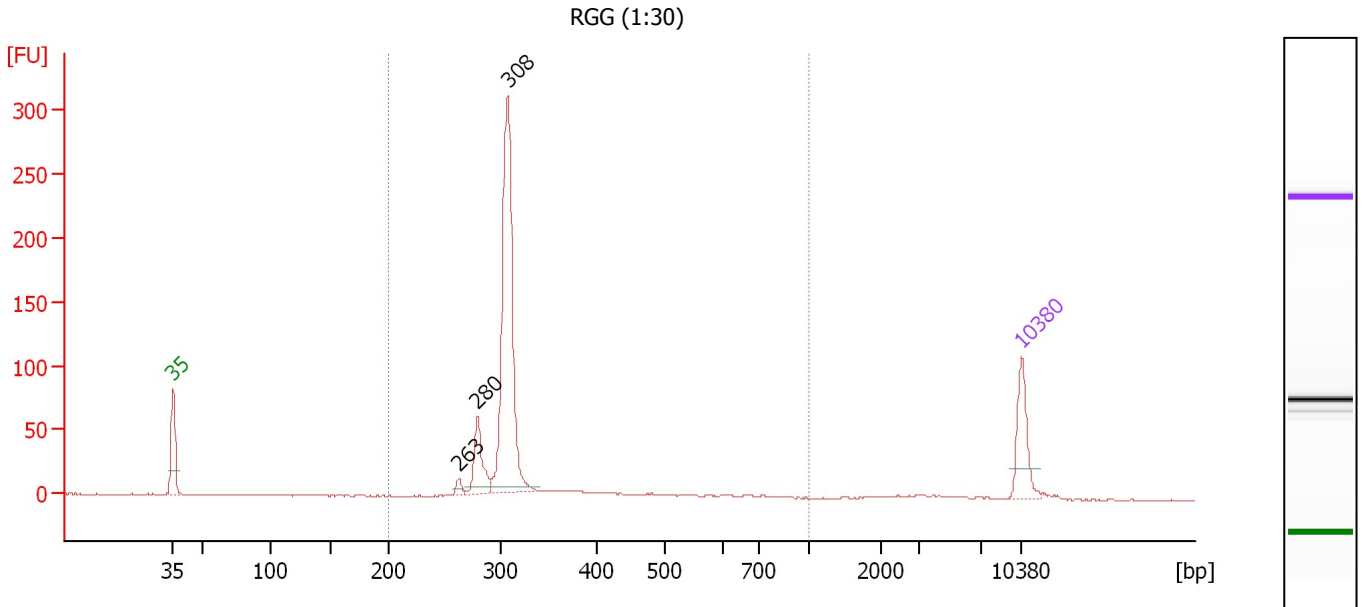
Region table for sample 1 : GM (1:4)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	408	1,079.2	1,274.72	5,193.5	89	30.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
 Modified: 3/21/2018 3:23:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : RGG (1:30)

Number of peaks found: 3 Corr. Area 1: 615.6
 Noise: 0.3

Peak table for sample 2 : RGG (1:30)

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	263	12.98	74.8		66.55
3	280	96.79	524.5		68.11
4	308	568.48	2,800.5		70.61
5	10,380	75.00	10.9	Upper Marker	113.00

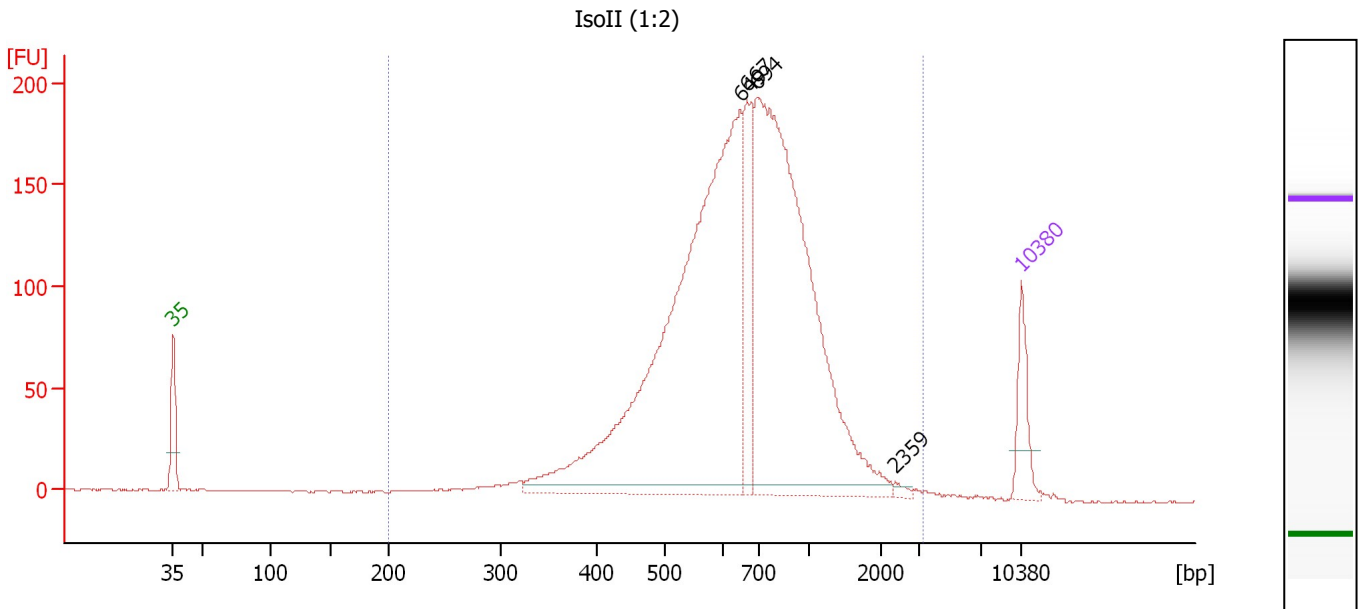
Region table for sample 2 : RGG (1:30)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	321	615.6	775.54	3,773.7	96	20.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
 Modified: 3/21/2018 3:23:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : IsoII (1:2)

Number of peaks found: 4 Corr. Area 1: 2,869.6
 Noise: 0.4

Peak table for sample 3 : IsoII (1:2)

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	649	1,590.47	3,713.8		89.82
3	667	222.74	505.9		90.36
4	694	1,352.43	2,954.8		91.16
5	2,359	7.49	4.8		102.58
6	10,380	75.00	10.9	Upper Marker	113.00

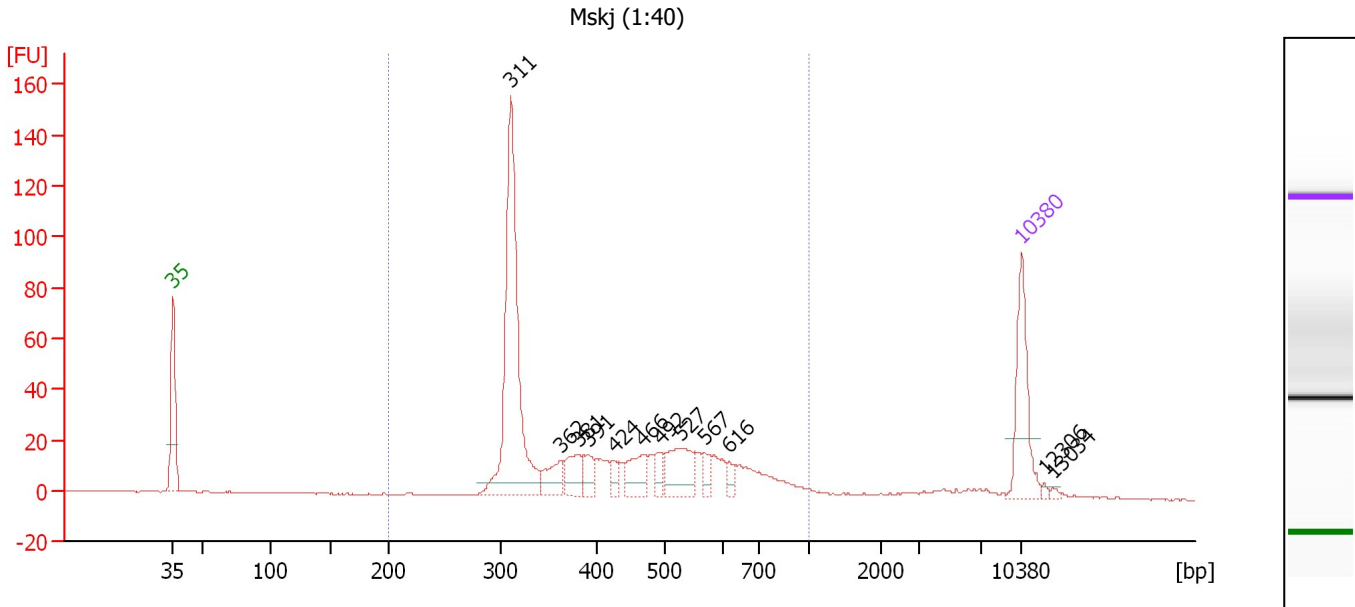
Region table for sample 3 : IsoII (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	3,259	733	2,869.6	3,254.23	7,923.8	99	42.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
 Modified: 3/21/2018 3:23:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Mskj (1:40)

Number of peaks found: 12 Corr. Area 1: 597.9
 Noise: 0.4

Peak table for sample 4 : Mskj (1:40)

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	311	350.58	1,708.4		70.88
3	362	34.42	144.1		74.95
4	381	37.64	149.7		76.47
5	391	23.66	91.7		77.29
6	424	14.71	52.5		79.37
7	466	37.98	123.6		81.71
8	492	16.06	49.5		83.19
9	527	60.94	175.2		84.92
10	567	15.49	41.4		86.80
11	616	11.56	28.4		88.84
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,306	0.00	0.0		114.88
14	13,034	0.00	0.0		115.59

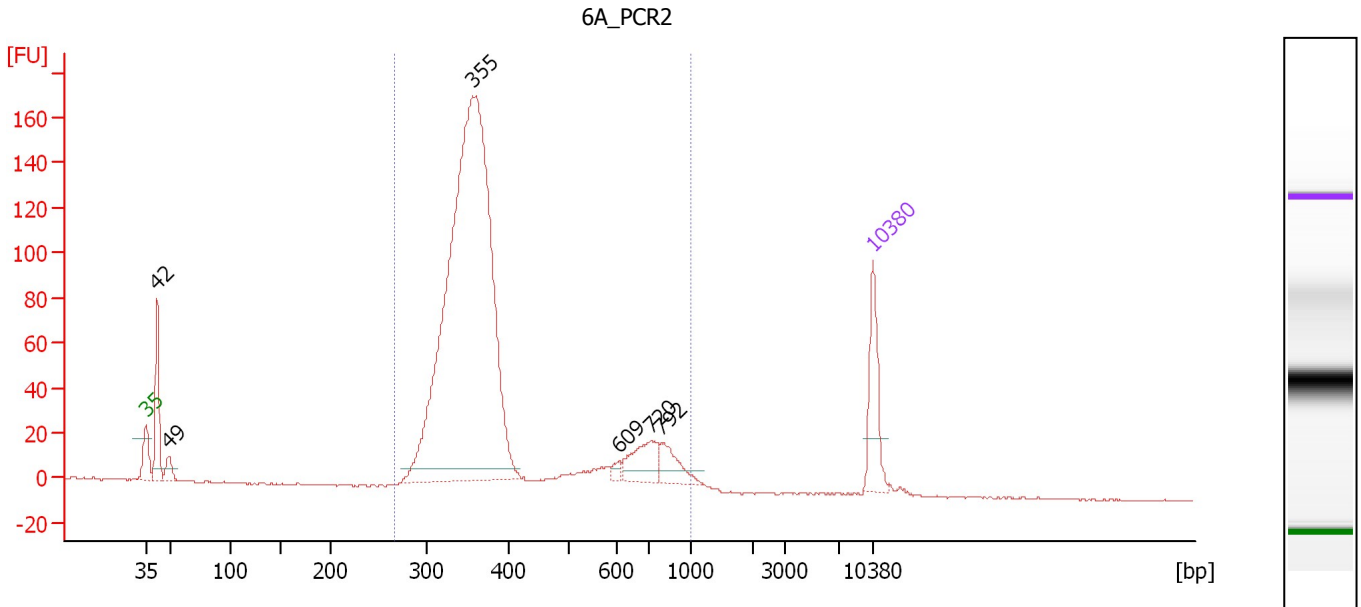
Region table for sample 4 : Mskj (1:40)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	435	597.9	734.33	2,881.3	95	32.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
 Modified: 3/21/2018 3:23:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 6A_PCR2

Number of peaks found: 6 Corr. Area 1: 1,395.7
 Noise: 0.4

Peak table for sample 5 : 6A_PCR2

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	148.67	5,376.7		44.08
3	49	30.46	939.5		45.21
4	355	1,472.15	6,276.8		74.43
5	609	9.57	23.8		88.61
6	720	66.29	139.4		91.64
7	792	46.34	88.6		92.61
8	10,380	75.00	10.9	Upper Marker	113.00

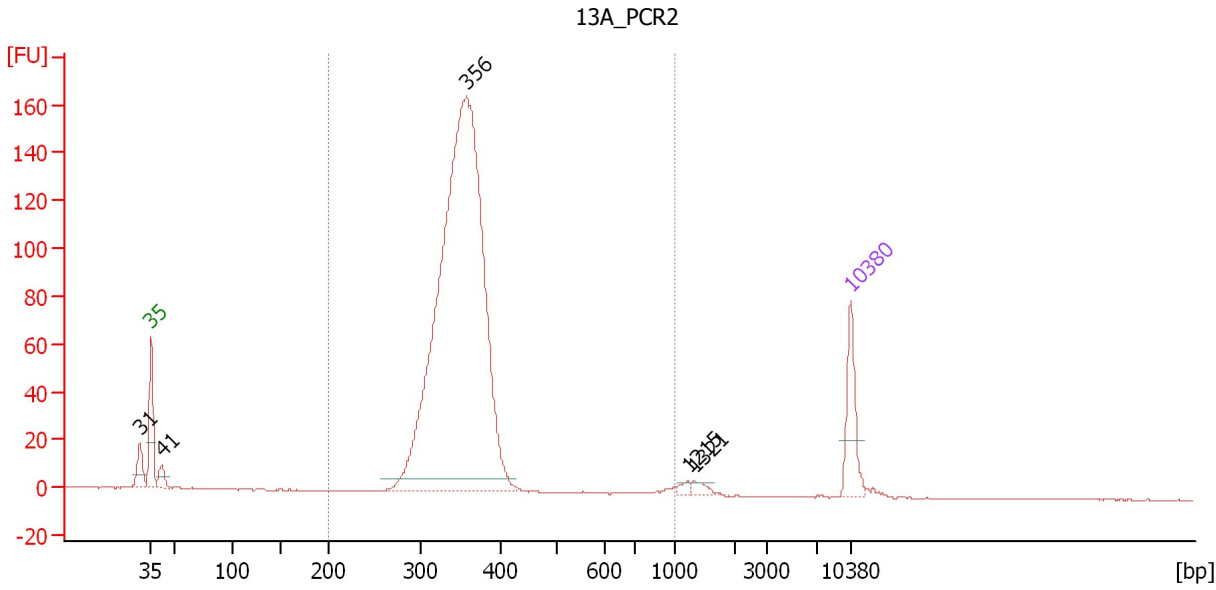
Region table for sample 5 : 6A_PCR2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
267	1,000	404	1,395.7	1,756.69	7,189.8	93	33.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
 Modified: 3/21/2018 3:23:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 13A_PCR2

Number of peaks found: 5 Corr. Area 1: 1,170.4
 Noise: 0.3

Peak table for sample 6 : 13A_PCR2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.83
2	35	125.00	5,411.3	Lower Marker	43.00
3	41	32.51	1,187.4		44.01
4	356	1,812.46	7,714.8		74.48
5	1,215	8.73	10.9		96.73
6	1,321	12.39	14.2		97.37
7	10,380	75.00	10.9	Upper Marker	113.00

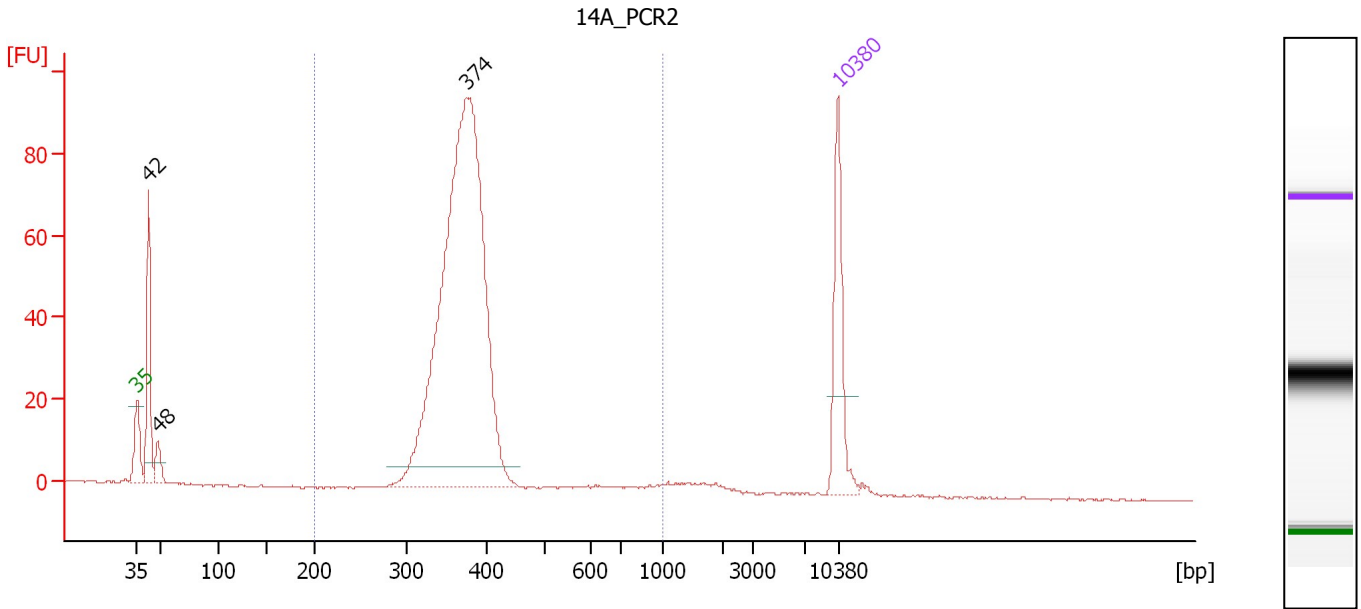
Region table for sample 6 : 13A_PCR2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	352	1,170.4	1,866.28	8,133.5	94	14.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
 Modified: 3/21/2018 3:23:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 14A_PCR2

Number of peaks found: 3 Corr. Area 1: 641.4
 Noise: 0.2

Peak table for sample 7 : 14A_PCR2

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	137.58	4,906.2		44.17
3	48	27.07	849.6		45.08
4	374	824.37	3,342.3		75.90
5	10,380	75.00	10.9	Upper Marker	113.00

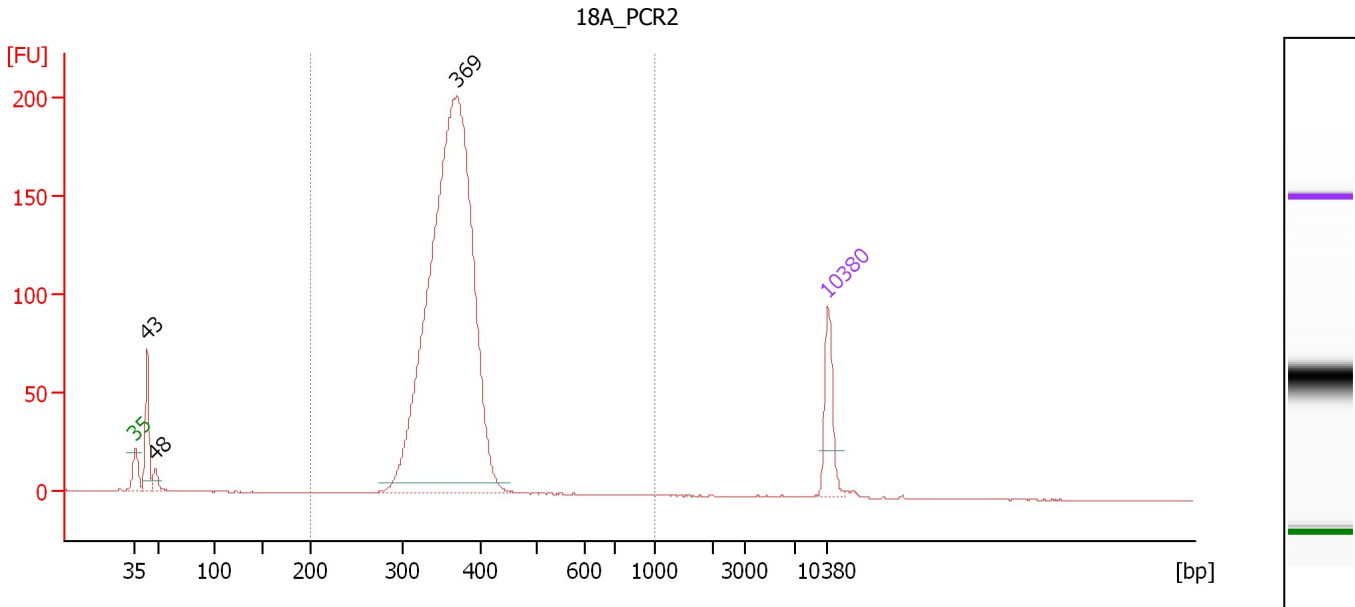
Region table for sample 7 : 14A_PCR2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	374	641.4	853.96	3,505.4	86	15.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
 Modified: 3/21/2018 3:23:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 18A_PCR2

Number of peaks found: 3 Corr. Area 1: 1,438.0
 Noise: 0.2

Peak table for sample 8 : 18A_PCR2

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	136.87	4,870.5		44.19
3	48	27.23	864.1		44.99
4	369	1,811.03	7,443.1		75.49
5	10,380	75.00	10.9	Upper Marker	113.00

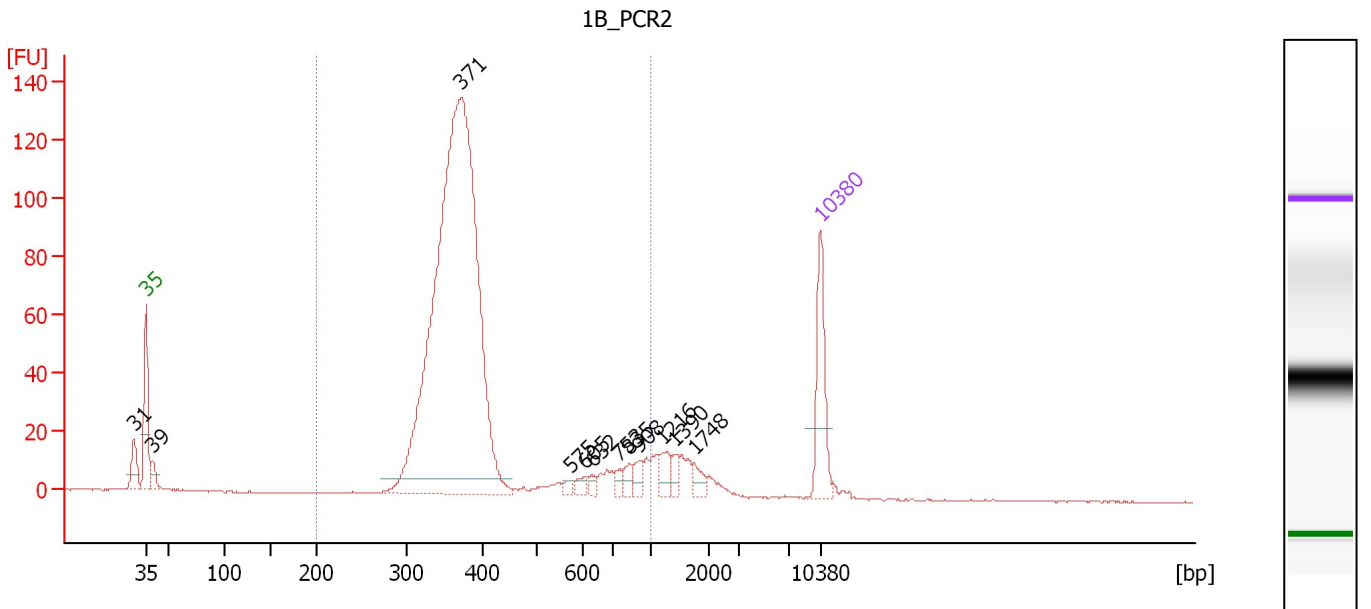
Region table for sample 8 : 18A_PCR2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	361	1,438.0	1,884.99	7,953.7	93	9.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
Modified: 3/21/2018 3:23:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 1B_PCR2

Number of peaks found: 12 Corr. Area 1: 1,024.2
Noise: 0.2

Peak table for sample 9 : 1B_PCR2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.78
2	35	125.00	5,411.3	Lower Marker	43.00
3	39	23.42	904.2		43.66
4	371	1,280.72	5,226.5		75.70
5	575	8.42	22.2		87.16
6	605	10.43	26.1		88.49
7	632	7.72	18.5		89.32
8	753	10.04	20.2		92.08
9	835	13.20	23.9		93.19
10	908	14.29	23.8		94.19
11	1,216	21.13	26.3		96.73
12	1,390	11.26	12.3		97.78
13	1,748	14.49	12.6		99.94
14	10,380	75.00	10.9	Upper Marker	113.00

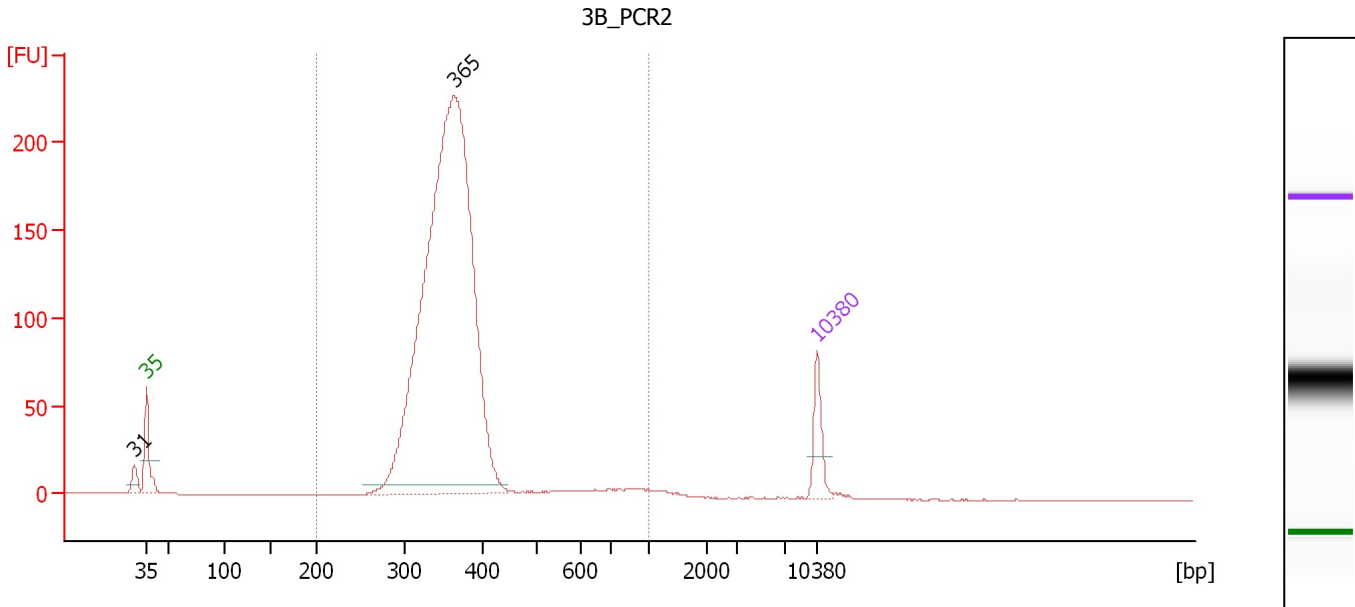
Region table for sample 9 : 1B_PCR2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/µl]	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	403	1,024.2	1,431.31	5,753.3	88	31.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
 Modified: 3/21/2018 3:23:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 3B_PCR2

Number of peaks found: 2 Corr. Area 1: 1,832.6
 Noise: 0.2

Peak table for sample 10 : 3B_PCR2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.72
2	35	125.00	5,411.3	Lower Marker	43.00
3	365	2,712.96	11,277.0		75.16
4	10,380	75.00	10.9	Upper Marker	113.00

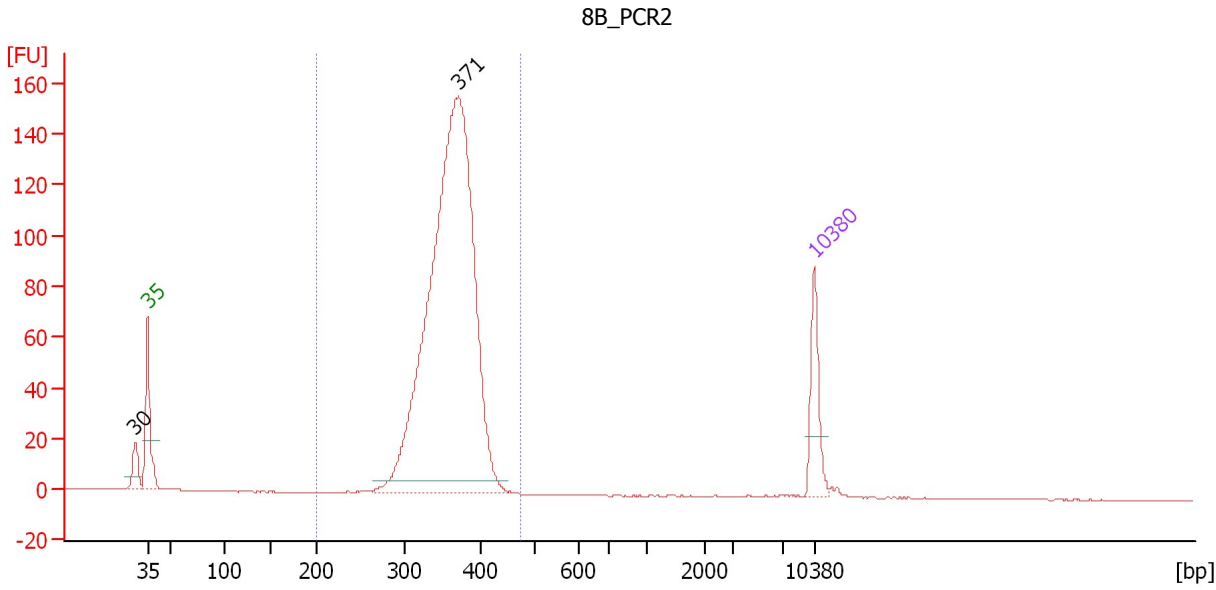
Region table for sample 10 : 3B_PCR2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	365	1,832.6	2,911.04	12,371.4	98	19.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
 Modified: 3/21/2018 3:23:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 8B_PCR2

Number of peaks found: 2 Corr. Area 1: 1,103.0
 Noise: 0.2

Peak table for sample 11 : 8B_PCR2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	30	0.00	0.0		41.71
2	35	125.00	5,411.3	Lower Marker	43.00
3	371	1,523.76	6,229.9		75.65
4	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 8B_PCR2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	474	359	1,103.0	1,572.45	6,665.4	97	7.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-21\2018-03-21_002.xad

Created: 3/21/2018 2:41:34 PM
Modified: 3/21/2018 3:23:41 PM

Gel Image

