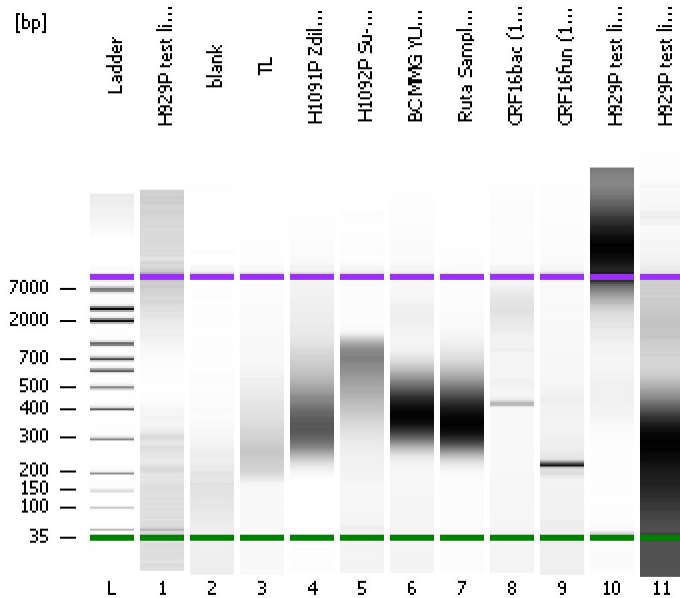


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

Created: 8/10/2017 11:51:27 AM
Modified: 8/10/2017 12:32:40 PM

Electrophoresis File Run Summary



Instrument Information:

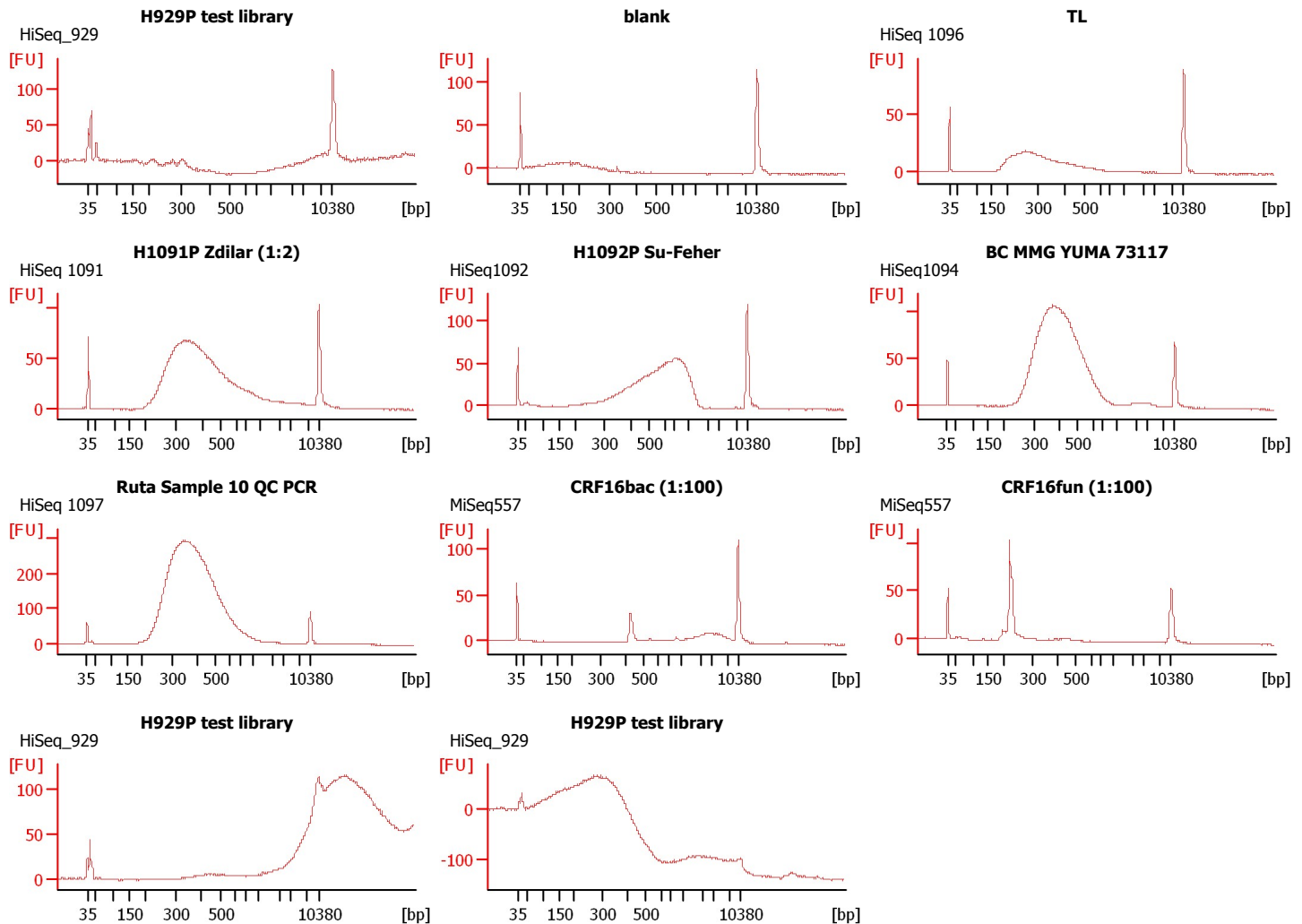
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

Created: 8/10/2017 11:51:27 AM
 Modified: 8/10/2017 12:32:40 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
H929P test library	HiSeq_929	<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
TL	HiSeq 1096	<input type="checkbox"/>	✓			
H1091P Zdilar (1:2)	HiSeq 1091	<input type="checkbox"/>	✓			
H1092P Su-Feher	HiSeq1092	<input type="checkbox"/>	✓			
BC MMG YUMA 73117	HiSeq1094	<input type="checkbox"/>	✓			
Ruta Sample 10 QC PCR	HiSeq 1097	<input type="checkbox"/>	✓			
CRF16bac (1:100)	MiSeq557	<input type="checkbox"/>	✓			
CRF16fun (1:100)	MiSeq557	<input type="checkbox"/>	✓			
H929P test library	HiSeq_929	<input type="checkbox"/>	✓			
H929P test library	HiSeq_929	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

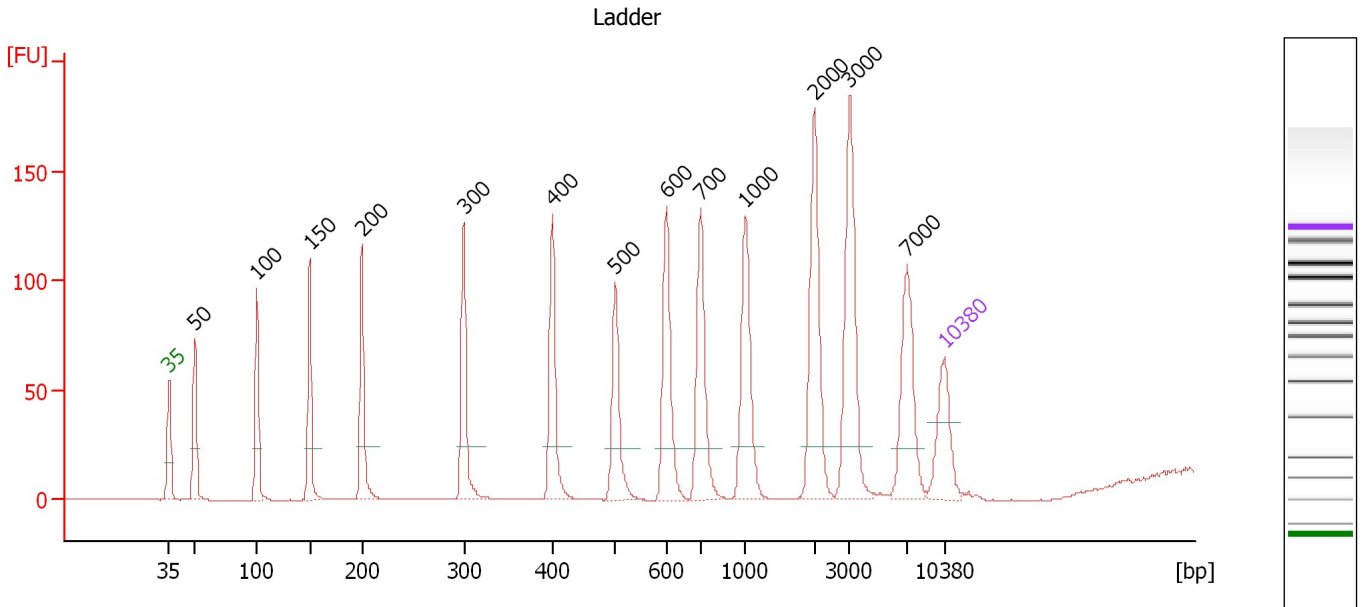
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

Created: 8/10/2017 11:51:27 AM
 Modified: 8/10/2017 12:32:40 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

Peak table for Ladder

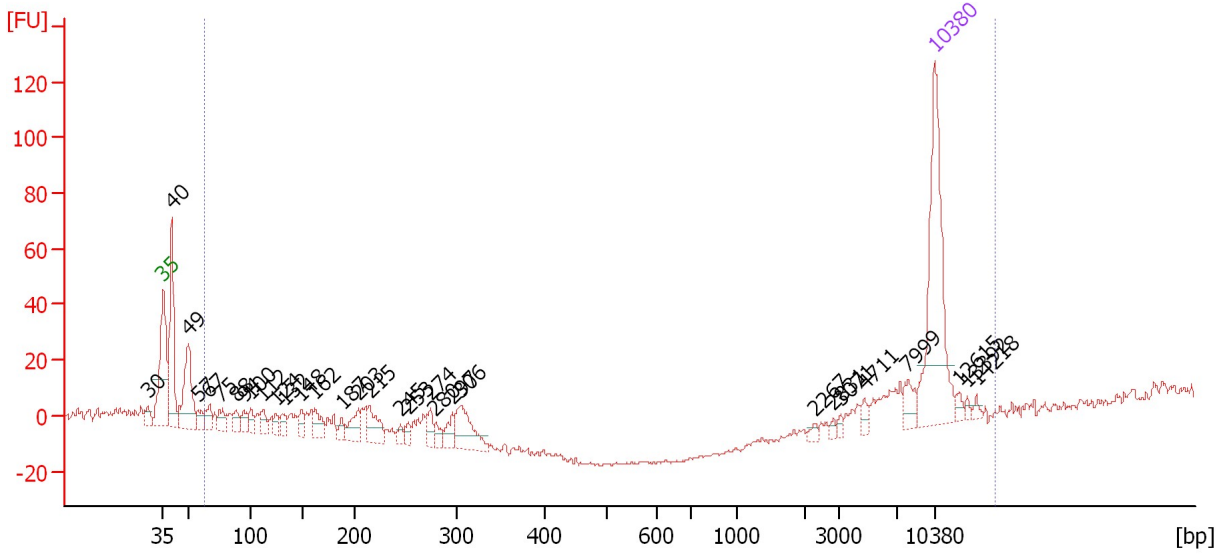
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.36
3	100	150.00	2,272.7	Ladder Peak	50.94
4	150	150.00	1,515.2	Ladder Peak	55.70
5	200	150.00	1,136.4	Ladder Peak	60.42
6	300	150.00	757.6	Ladder Peak	69.60
7	400	150.00	568.2	Ladder Peak	77.59
8	500	150.00	454.5	Ladder Peak	83.27
9	600	150.00	378.8	Ladder Peak	87.89
10	700	150.00	324.7	Ladder Peak	90.97
11	1,000	150.00	227.3	Ladder Peak	95.05
12	2,000	150.00	113.6	Ladder Peak	101.26
13	3,000	150.00	75.8	Ladder Peak	104.44
14	7,000	150.00	32.5	Ladder Peak	109.63
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

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Electropherogram Summary Continued ...

H929P test library [HiSeq_929]



Overall Results for sample 1 : H929P test library

Number of peaks found: 31 Corr. Area 1: 5.5
 Noise: 0.5

Peak table for sample 1 : H929P test library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	30	0.00	0.0		41.64
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	82.29	3,122.7		43.77
4	49	61.78	1,891.8		45.28
5	57	8.83	234.4		46.15
6	67	12.34	280.6		47.21
7	75	11.16	225.8		48.13
8	88	10.07	172.8		49.63
9	94	9.36	150.3		50.31
10	100	8.88	134.5		50.94
11	112	9.92	133.9		52.10
12	124	8.64	105.7		53.21
13	132	8.77	100.7		53.99
14	148	9.28	94.9		55.54
15	162	14.69	137.7		56.80
16	187	6.11	49.4		59.22
17	203	17.32	129.1		60.72
18	215	22.21	156.6		61.78
19	245	5.09	31.4		64.59
20	253	5.54	33.1		65.32
21	274	9.57	52.8		67.25
22	280	6.47	35.0		67.74
23	297	11.43	58.4		69.29
24	306	29.50	146.2		70.06
25	2,267	2.56	1.7		102.11

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

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 Modified: 8/10/2017 12:32:40 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : H929P test library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,831	1.84	1.0		103.90
27	3,071	2.14	1.1		104.53
28	4,711	4.40	1.4		106.66
29	7,999	8.34	1.6		110.63
30	10,380	75.00	10.9	Upper Marker	113.00
31	12,615	0.00	0.0		115.23
32	13,392	0.00	0.0		116.00
33	14,218	0.00	0.0		116.82

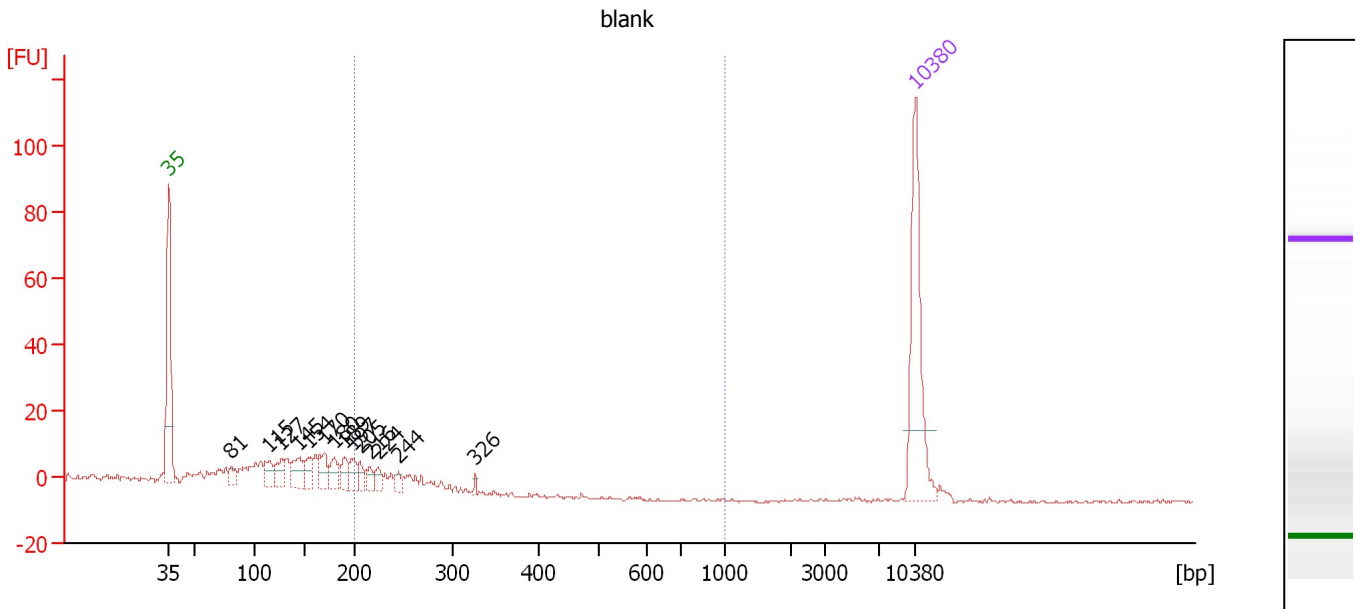
Region table for sample 1 : H929P test library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
63	15,893	10,389	5.5	15.5	2.99	5	8.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

Created: 8/10/2017 11:51:27 AM
 Modified: 8/10/2017 12:32:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : blank

Number of peaks found: 14 Corr. Area 1: 40.0
 Noise: 0.5

Peak table for sample 2 : blank

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	81	9.62	179.3		48.85
3	115	18.35	241.0		52.40
4	127	18.17	216.1		53.55
5	145	24.27	254.0		55.20
6	154	17.61	173.0		56.10
7	170	21.49	191.4		57.60
8	180	16.59	139.9		58.50
9	189	14.67	117.5		59.40
10	197	14.22	109.3		60.15
11	205	10.36	76.4		60.90
12	216	7.73	54.3		61.85
13	224	9.26	62.7		62.60
14	244	6.36	39.4		64.50
15	326	2.69	12.5		71.70
16	10,380	75.00	10.9	Upper Marker	113.00

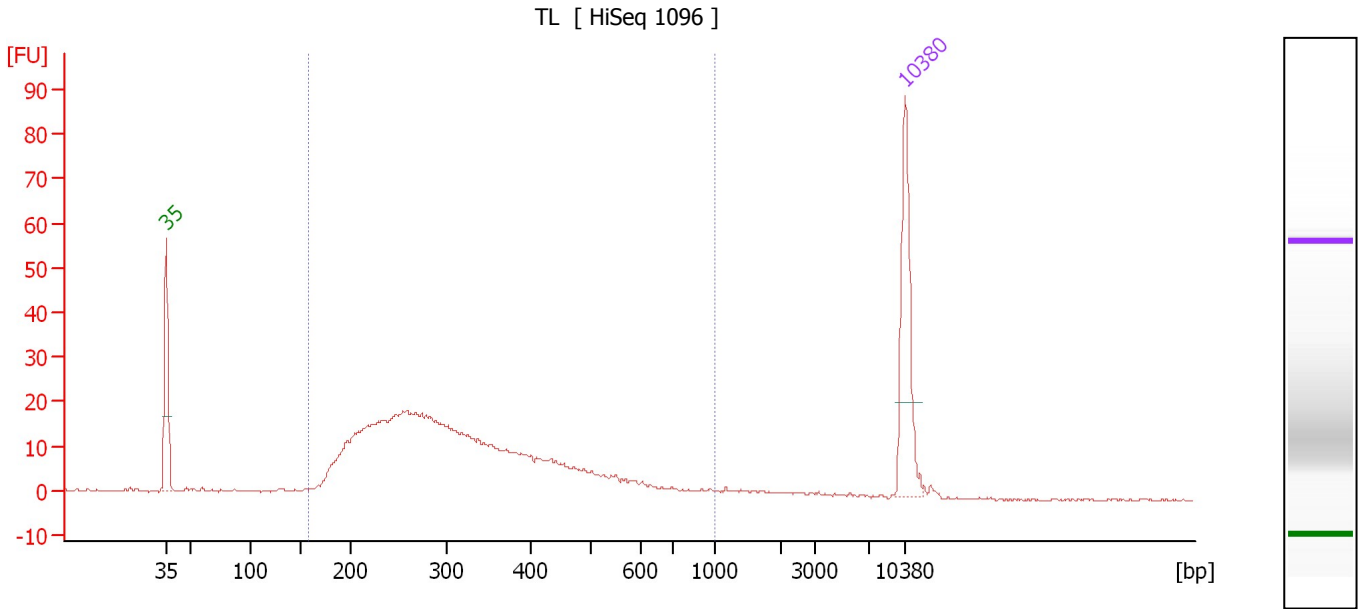
Region table for sample 2 : blank

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	232	40.0	300.8	45.92	19	11.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : TL

Number of peaks found: 0 Corr. Area 1: 482.3
 Noise: 0.2

Peak table for sample 3 : TL

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	10,380	75.00	10.9	Upper Marker	113.00

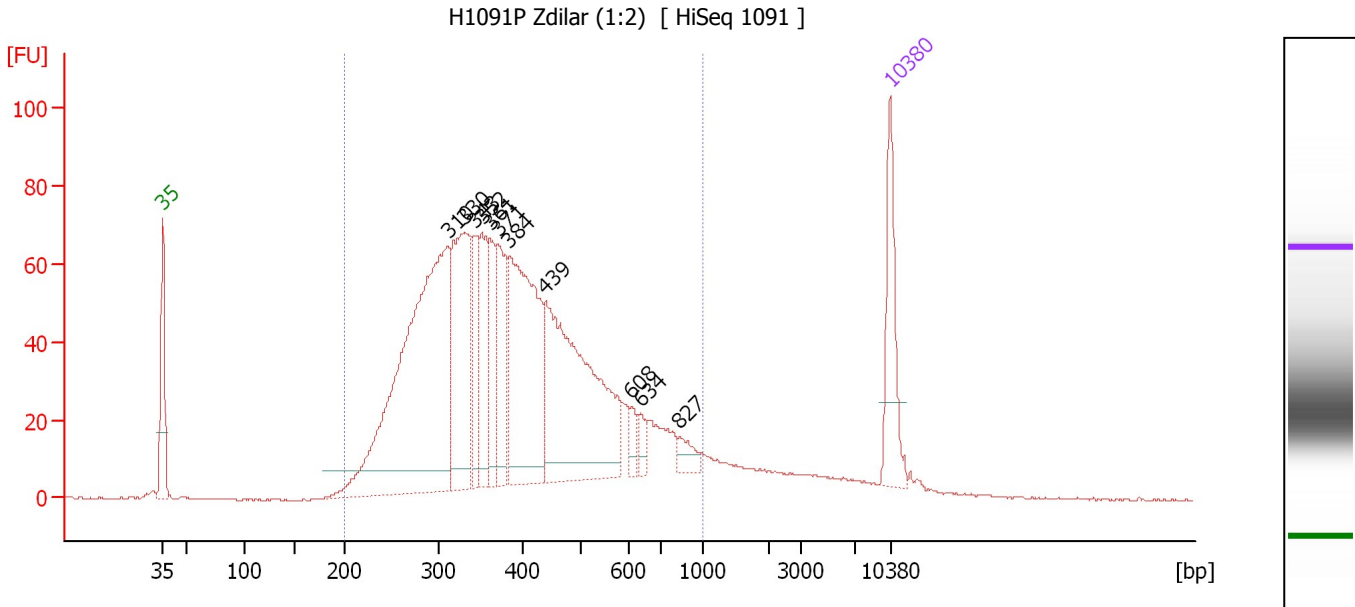
Region table for sample 3 : TL

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
159	1,000	331	482.3	3,905.6	731.00	93	38.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : H1091P Zdilar (1:2)

Number of peaks found: 11 Corr. Area 1: 1,760.1
 Noise: 0.2

Peak table for sample 4 : H1091P Zdilar (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	310	649.52	3,170.4		70.44
3	330	228.86	1,051.8		71.97
4	343	78.17	345.2		73.05
5	352	105.16	453.3		73.72
6	361	78.41	329.0		74.49
7	371	99.69	407.4		75.26
8	384	299.84	1,182.3		76.33
9	439	367.89	1,268.9		79.82
10	608	15.68	39.1		88.13
11	634	16.88	40.3		88.95
12	827	19.10	35.0		92.69
13	10,380	75.00	10.9	Upper Marker	113.00

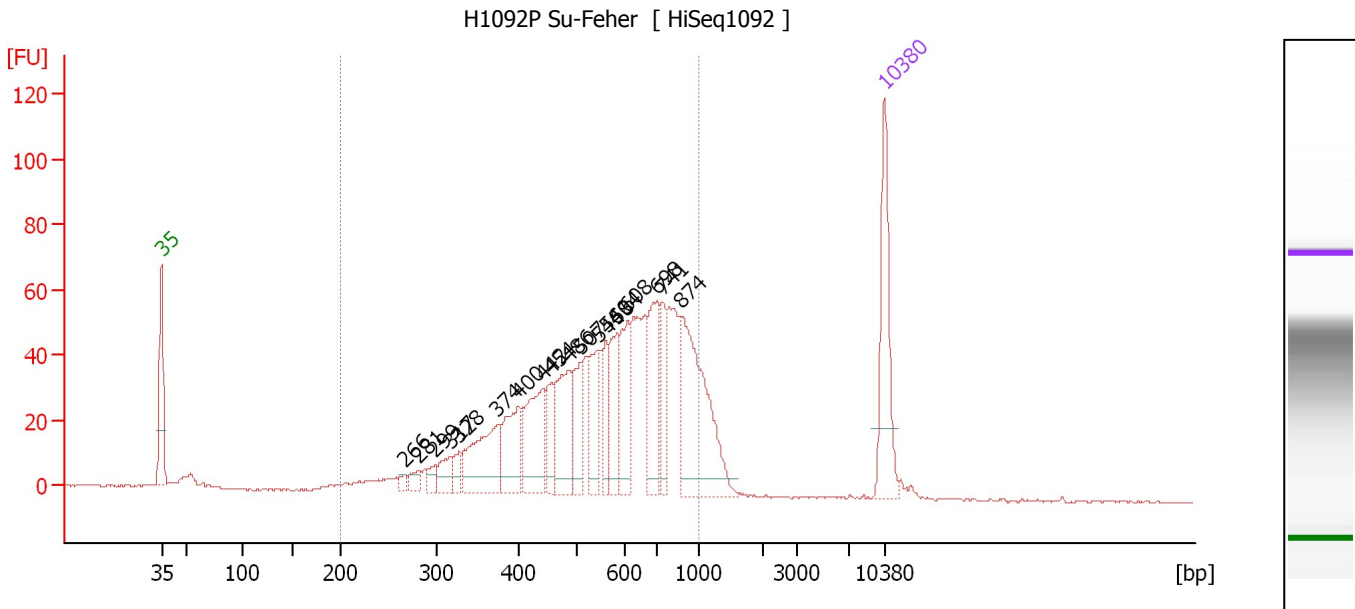
Region table for sample 4 : H1091P Zdilar (1:2)

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	410	1,760.1	9,593.4	2,270.94	93	34.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

Created: 8/10/2017 11:51:27 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : H1092P Su-Feher

Number of peaks found: 18 Corr. Area 1: 1,121.5
 Noise: 0.4

Peak table for sample 5 : H1092P Su-Feher

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	266	7.99	45.5		66.49
3	281	13.27	71.6		67.83
4	299	10.78	54.7		69.48
5	317	23.04	110.3		70.93
6	328	16.37	75.6		71.86
7	374	90.54	366.7		75.52
8	400	58.67	222.3		77.59
9	442	83.83	287.5		79.96
10	454	33.61	112.0		80.68
11	486	80.91	252.1		82.49
12	507	42.69	127.7		83.58
13	544	47.32	131.9		85.28
14	560	35.38	95.7		86.05
15	584	55.34	143.6		87.14
16	608	60.58	151.1		88.12
17	698	75.36	163.6		90.91
18	741	41.95	85.8		91.53
19	874	153.44	266.1		93.33
20	10,380	75.00	10.9	Upper Marker	113.00

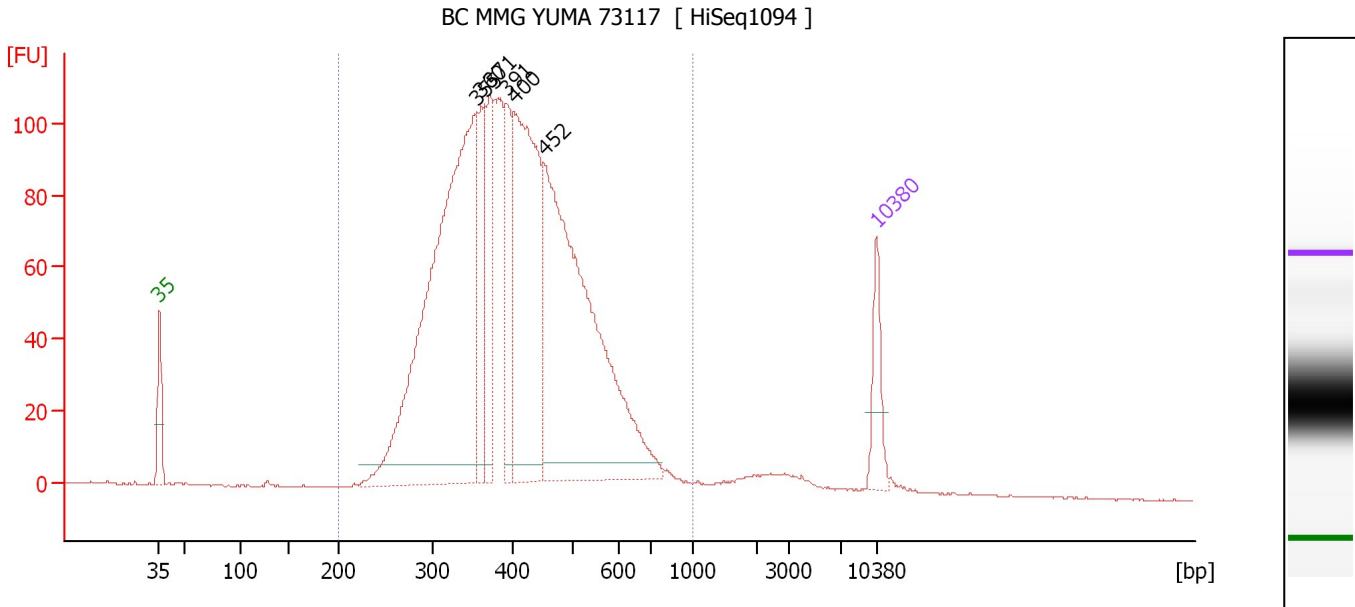
Region table for sample 5 : H1092P Su-Feher

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	580	1,121.5	3,455.7	1,134.54	91	31.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : BC MMG YUMA 73117

Number of peaks found: 6 Corr. Area 1: 2,257.2
 Noise: 0.1

Peak table for sample 6 : BC MMG YUMA 73117

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	355	1,383.25	5,910.2		73.97
3	360	183.13	769.7		74.43
4	371	253.10	1,033.9		75.27
5	391	211.13	817.9		76.88
6	400	659.95	2,497.8		77.61
7	452	1,084.22	3,637.1		80.52
8	10,380	75.00	10.9	Upper Marker	113.00

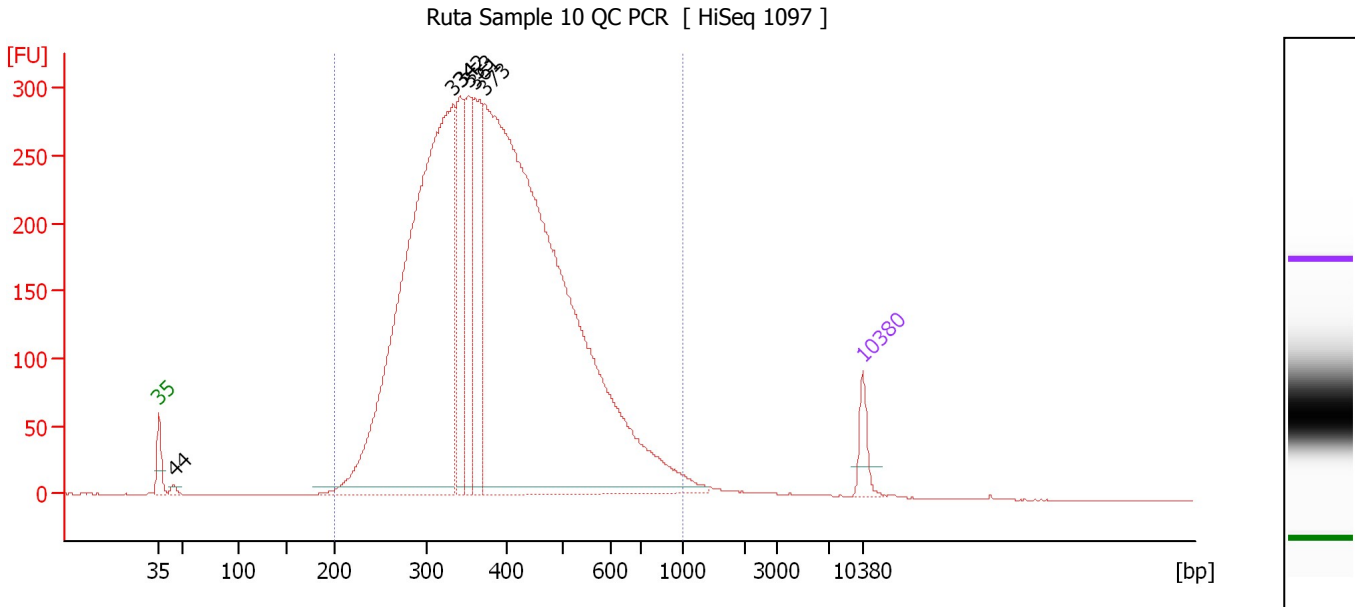
Region table for sample 6 : BC MMG YUMA 73117

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	414	2,257.2	16,924.5	4,296.26	97	24.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : Ruta Sample 10 QC PCR

Number of peaks found: 6 Corr. Area 1: 6,818.1
 Noise: 0.2

Peak table for sample 7 : Ruta Sample 10 QC PCR

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	44	22.69	773.3		44.48
3	334	3,538.89	16,050.4		72.33
4	342	519.48	2,301.2		72.96
5	353	446.07	1,916.4		73.81
6	361	558.74	2,347.5		74.45
7	373	5,246.65	21,336.1		75.40
8	10,380	75.00	10.9	Upper Marker	113.00

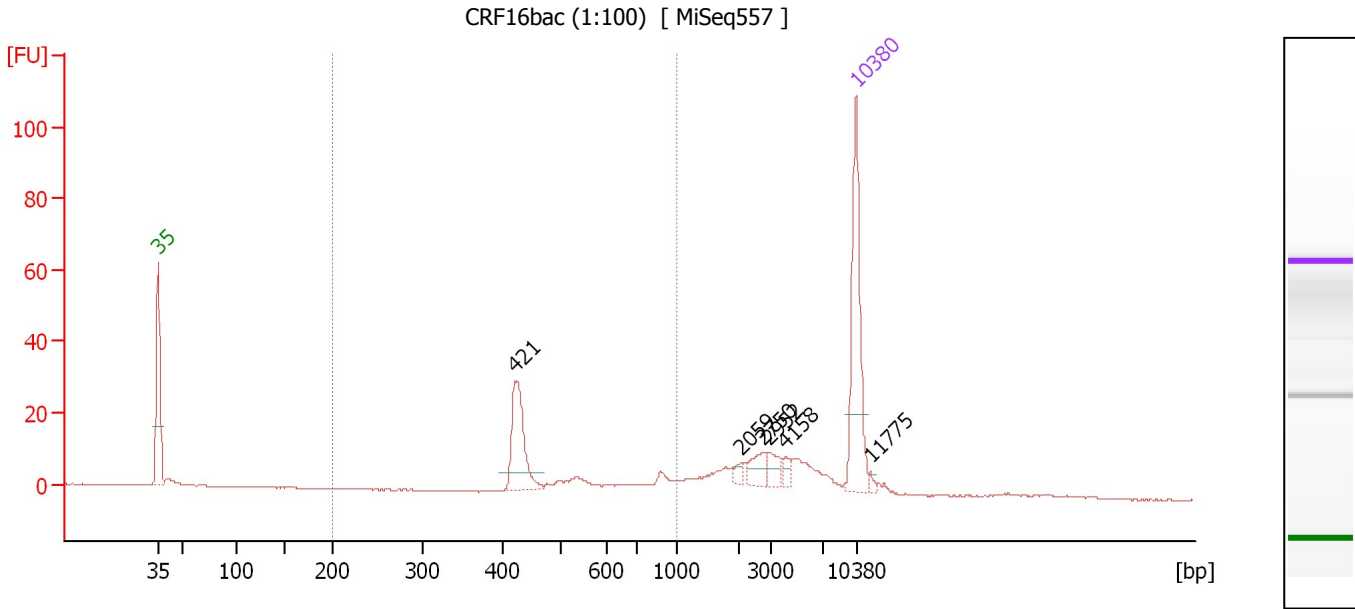
Region table for sample 7 : Ruta Sample 10 QC PCR

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	400	6,818.1	42,972.6	10,295.38	98	28.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : CRF16bac (1:100)

Number of peaks found: 6 Corr. Area 1: 97.9
 Noise: 0.1

Peak table for sample 8 : CRF16bac (1:100)

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	421	64.56	232.4		78.78
3	2,059	4.71	3.5		101.45
4	2,750	12.50	6.9		103.64
5	2,952	9.91	5.1		104.28
6	4,158	5.68	2.1		105.94
7	10,380	75.00	10.9	Upper Marker	113.00
8	11,775	0.00	0.0		114.39

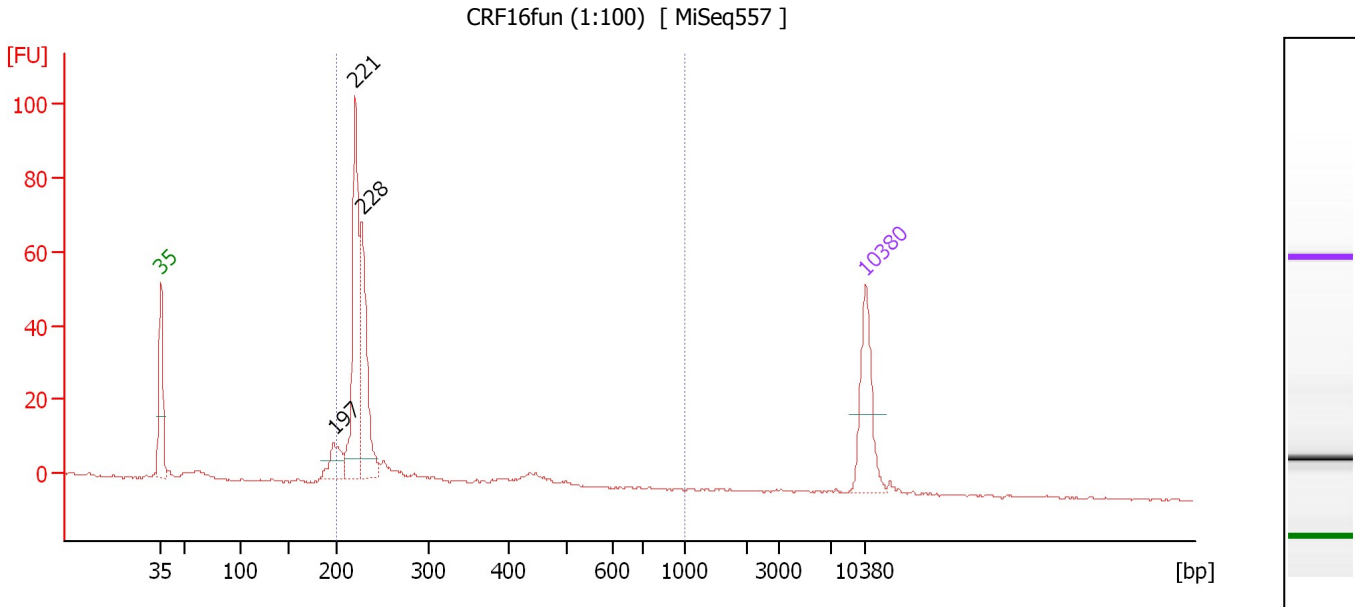
Region table for sample 8 : CRF16bac (1:100)

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	541	97.9	339.0	110.37	40	30.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : CRF16fun (1:100)

Number of peaks found: 3 Corr. Area 1: 251.2
 Noise: 0.3

Peak table for sample 9 : CRF16fun (1:100)

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	197	44.70	343.1		60.17
3	221	227.40	1,559.4		62.34
4	228	177.45	1,179.9		62.98
5	10,380	75.00	10.9	Upper Marker	113.00

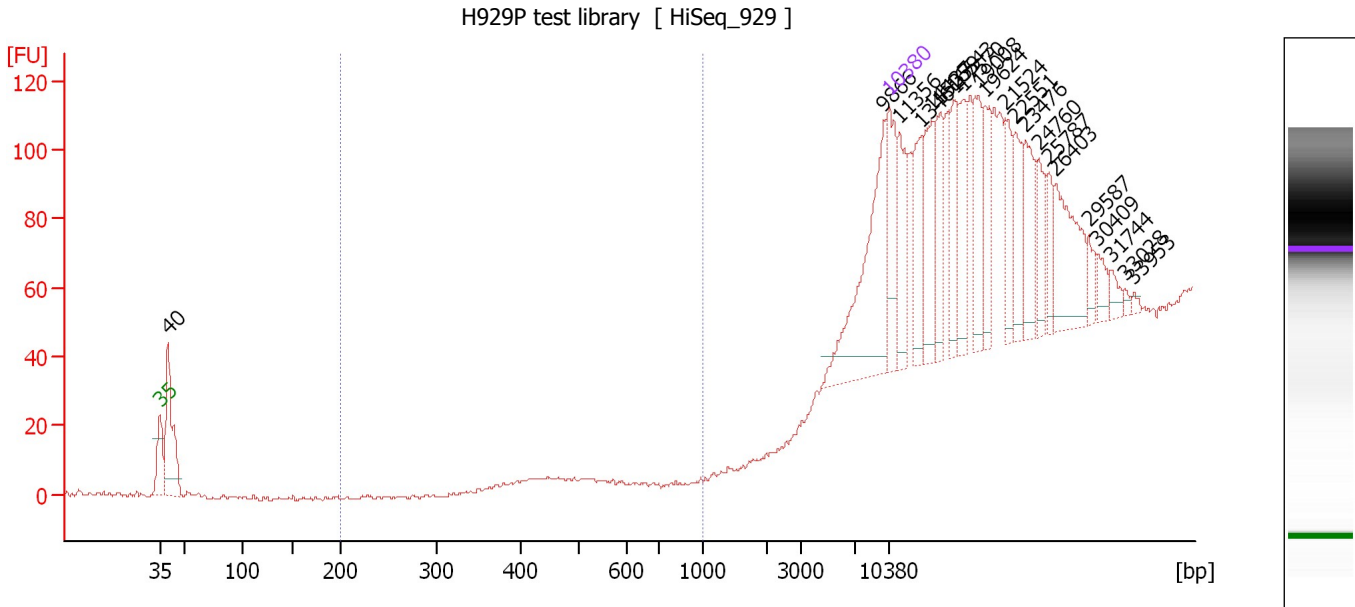
Region table for sample 9 : CRF16fun (1:100)

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	244	251.2	3,224.0	497.98	92	23.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

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 Modified: 8/10/2017 12:32:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : H929P test library

Number of peaks found: 21 Corr. Area 1: 0.0
 Noise: 0.5

Peak table for sample 10 : H929P test library

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	40	173.88	6,605.7		43.77
3	9,866	171.35	26.3		112.49
4	10,380	75.00	10.9	Upper Marker	113.00
5	11,356	0.00	0.0		113.97
6	13,461	0.00	0.0		116.07
7	14,437	0.00	0.0		117.04
8	15,259	0.00	0.0		117.86
9	16,543	0.00	0.0		119.14
10	17,570	0.00	0.0		120.16
11	19,008	0.00	0.0		121.60
12	19,624	0.00	0.0		122.21
13	21,524	0.00	0.0		124.10
14	22,551	0.00	0.0		125.13
15	23,476	0.00	0.0		126.05
16	24,760	0.00	0.0		127.33
17	25,787	0.00	0.0		128.35
18	26,403	0.00	0.0		128.96
19	29,587	0.00	0.0		132.14
20	30,409	0.00	0.0		132.96
21	31,744	0.00	0.0		134.29
22	33,028	0.00	0.0		135.57
23	33,953	0.00	0.0		136.49

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

Created: 8/10/2017 11:51:27 AM
Modified: 8/10/2017 12:32:40 PM

Electropherogram Summary Continued ...

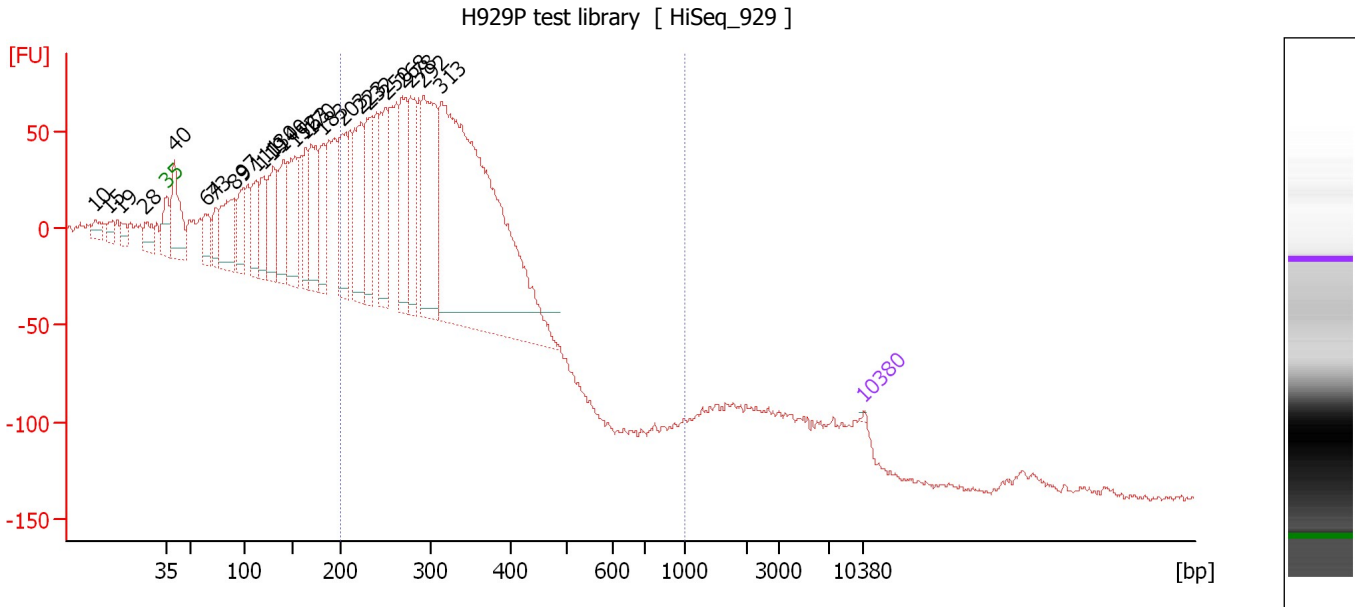
... Region table for sample 10 : H929P test library

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:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

Created: 8/10/2017 11:51:27 AM
 Modified: 8/10/2017 12:32:40 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : H929P test library

Number of peaks found: 25 Corr. Area 1: 2,427.4
 Noise: 1.6

Peak table for sample 11 : H929P test library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	10	0.00	0.0		35.83
2	15	0.00	0.0		37.22
3	19	0.00	0.0		38.45
4	28	0.00	0.0		40.86
5	35	125.00	5,411.3	Lower Marker	43.00
6	40	6,712.50	253,601.7		43.80
7	64	2,750.84	64,786.5		46.96
8	73	2,363.05	49,074.8		47.92
9	89	6,550.13	111,201.5		49.74
10	97	3,484.10	54,202.9		50.65
11	111	4,424.11	60,400.6		51.98
12	119	4,328.08	55,181.7		52.73
13	130	5,803.39	67,897.4		53.75
14	140	5,457.64	59,230.6		54.71
15	152	6,974.45	69,531.3		55.89
16	163	4,501.79	41,763.4		56.96
17	170	6,386.84	57,071.4		57.55
18	183	4,516.79	37,478.0		58.78
19	203	6,845.51	51,215.4		60.65
20	223	7,356.00	50,005.3		62.52
21	232	5,315.41	34,771.8		63.32
22	250	6,947.63	42,066.9		65.03
23	268	6,796.74	38,385.9		66.69
24	278	6,723.93	36,700.9		67.55
25	292	12,666.04	65,822.5		68.83

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

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Electropherogram Summary Continued ...

... Peak table for sample 11 : H929P test library

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	313	47,307.74	228,967.3		70.65
27	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : H929P test library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	1,000	301	2,427.4	575,032.8	108,708.23	62	20.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-10\2017-08-10_004.xad

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Gel Image

