

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2014-08-01\2014-08-01_002_2.xad

Created: 8/1/2014 9:39:10 AM
Modified: 8/1/2014 10:28:35 AM

Electrophoresis File Run Summary

Instrument Information:

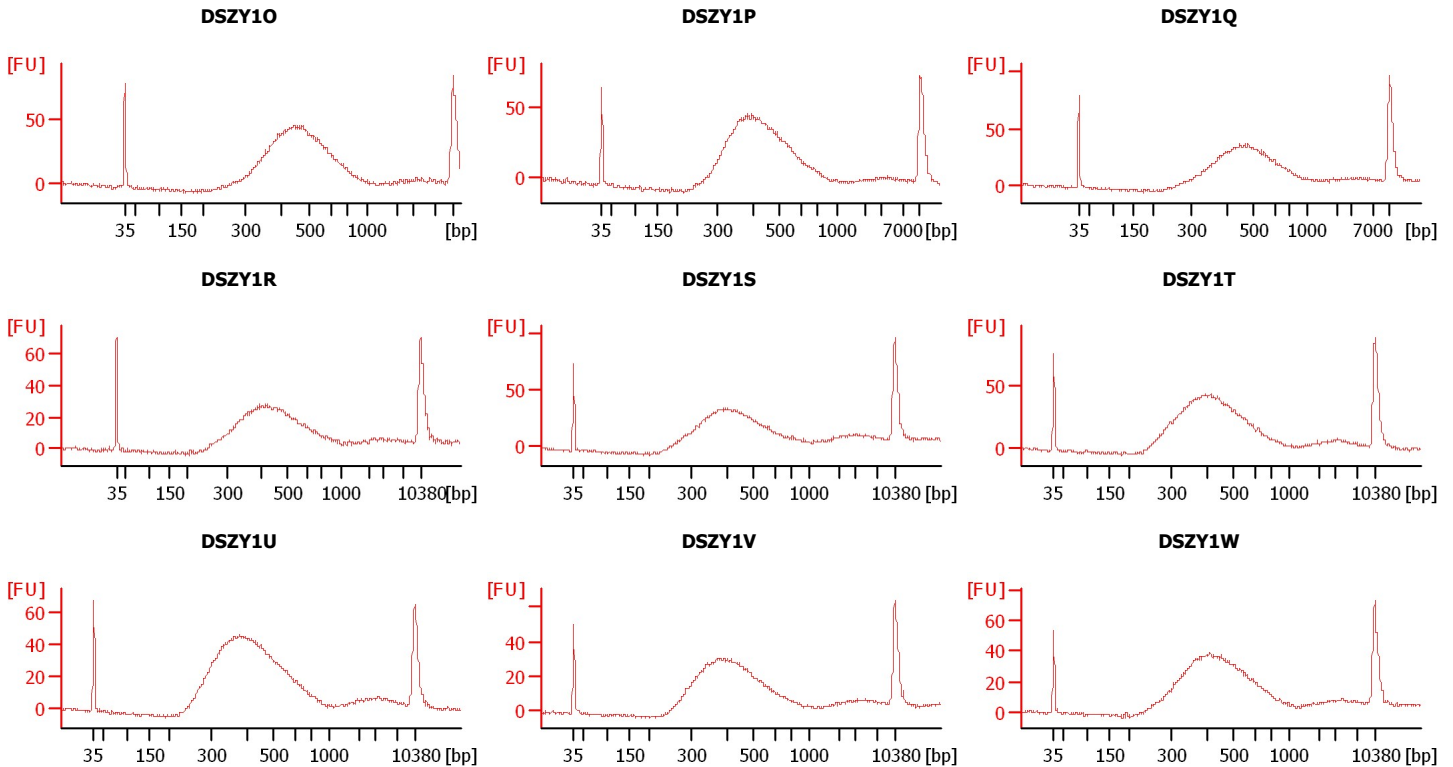
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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
DSZY1O		<input type="checkbox"/>	✓			
DSZY1P		<input type="checkbox"/>	✓			
DSZY1Q		<input type="checkbox"/>	✓			
DSZY1R		<input type="checkbox"/>	✓			
DSZY1S		<input type="checkbox"/>	✓			
DSZY1T		<input type="checkbox"/>	✓			
DSZY1U		<input type="checkbox"/>	✓			
DSZY1V		<input type="checkbox"/>	✓			
DSZY1W		<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

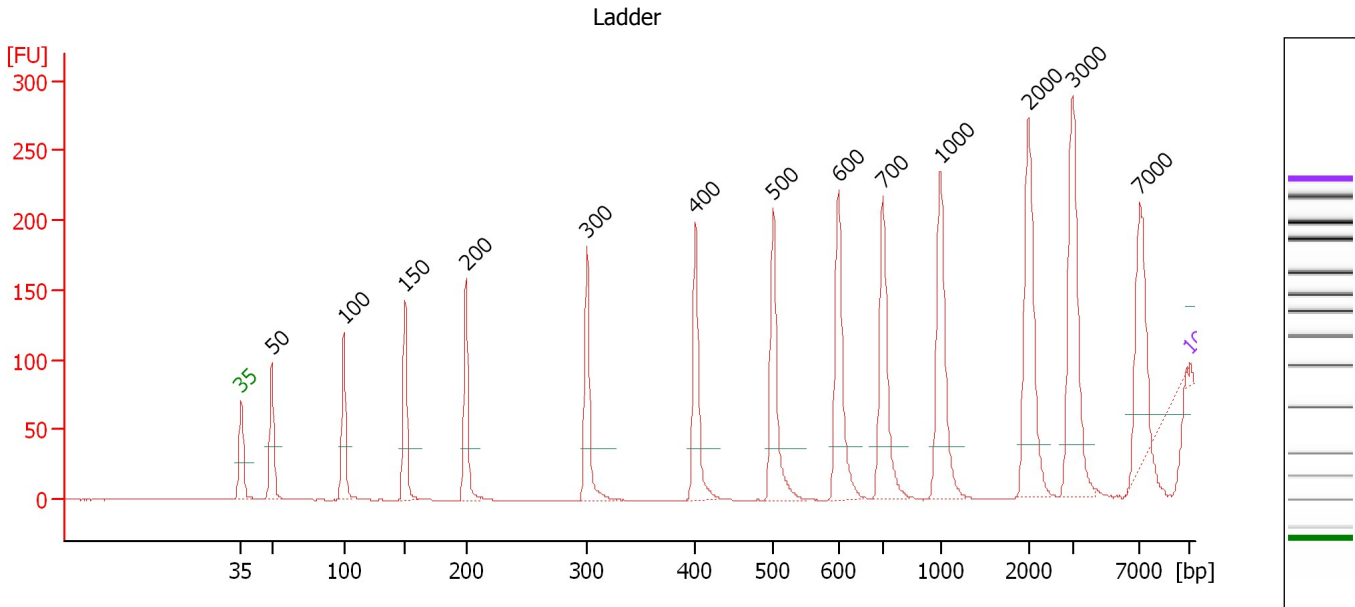
Ladder

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

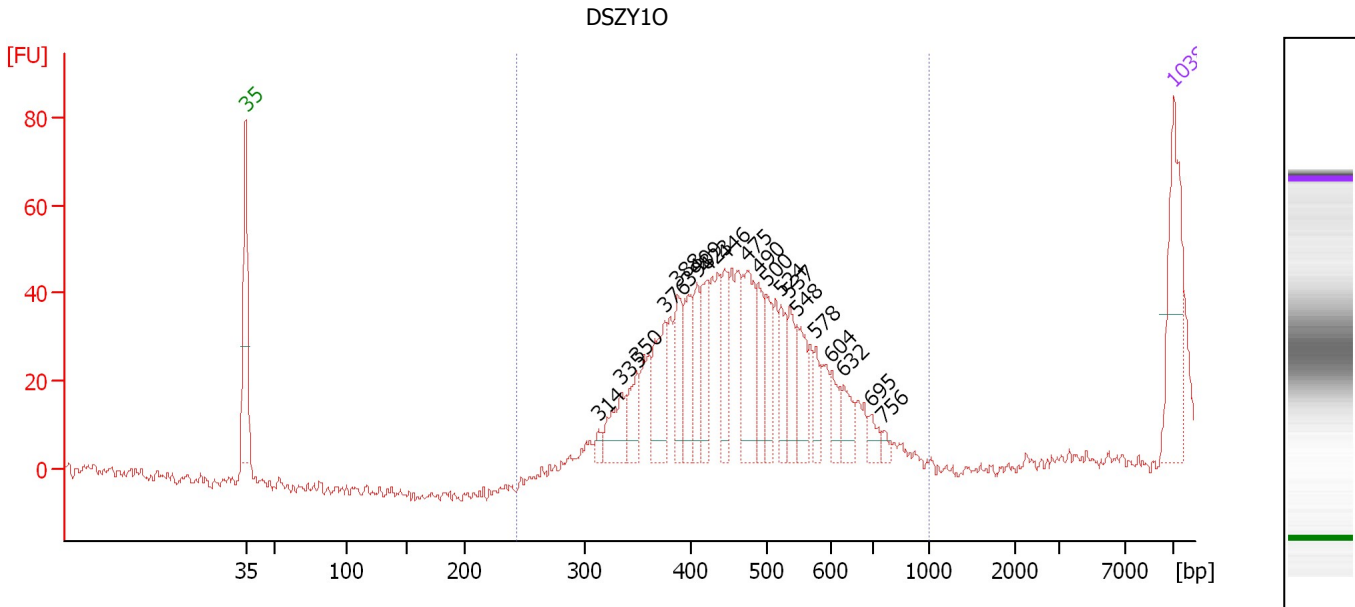
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...



Overall Results for sample 3 : DSZY10

Number of peaks found: 20 Corr. Area 1: 372.3
 Noise: 1.4

Peak table for sample 3 : DSZY10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	314	8.53	41.2	
3	335	44.93	202.9	
4	350	39.47	170.9	
5	376	70.76	285.1	
6	388	44.98	175.6	
7	398	45.39	172.8	
8	409	41.20	152.5	
9	423	51.46	184.5	
10	446	47.35	160.9	
11	475	86.83	277.1	
12	490	44.07	136.4	
13	500	33.73	102.2	
14	524	34.66	100.3	
15	537	39.12	110.4	
16	548	41.45	114.5	
17	578	19.67	51.6	
18	604	20.88	52.4	
19	632	24.31	58.3	
20	695	13.36	29.1	
21	756	6.14	12.3	
22	10,380	75.00	10.9	Upper Marker

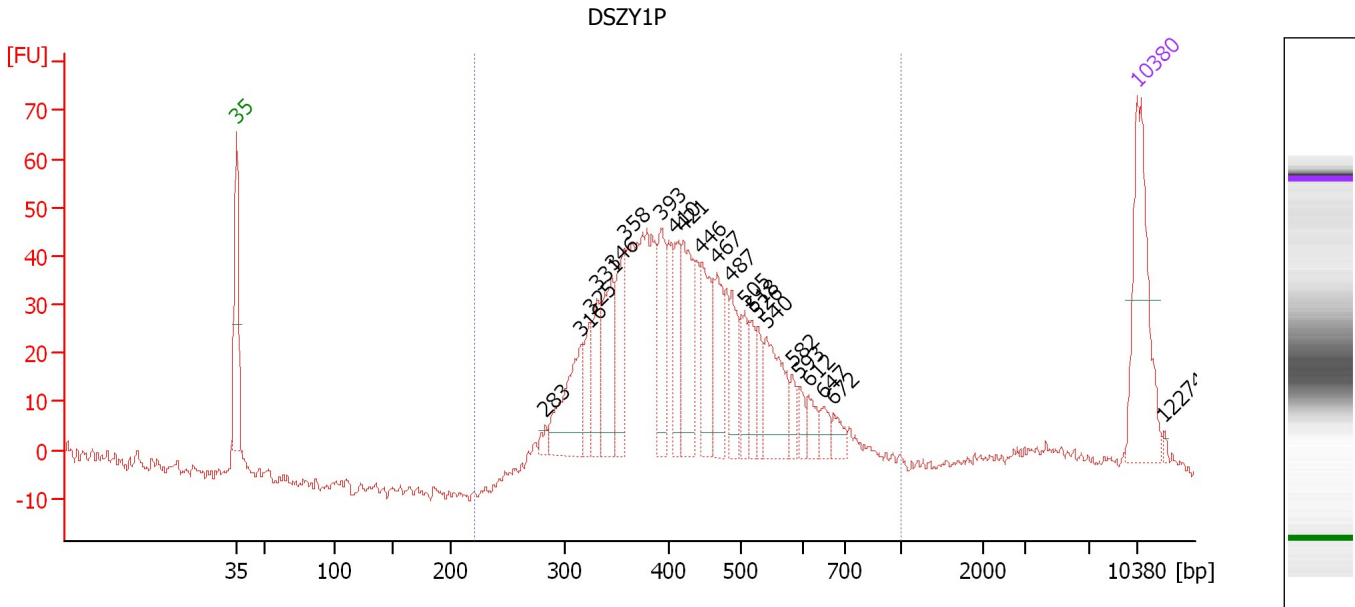
Region table for sample 3 : DSZY10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
243	1,000	451	1,756.3	510.83	372.3	98	13.4

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Electropherogram Summary Continued ...



Overall Results for sample 4 : DSZY1P

Number of peaks found: 22 Corr. Area 1: 956.1
 Noise: 1.3

Peak table for sample 4 : DSZY1P


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	283	7.12	38.1	
3	316	71.34	341.6	
4	325	29.02	135.4	
5	331	41.08	187.8	
6	346	64.36	281.9	
7	358	52.90	224.1	
8	393	52.91	203.8	
9	410	41.68	154.2	
10	421	68.97	248.1	
11	446	56.08	190.6	
12	467	41.38	134.3	
13	487	35.41	110.3	
14	505	21.97	65.9	
15	518	20.60	60.3	
16	526	18.95	54.6	
17	540	56.36	158.2	
18	582	10.90	28.4	
19	593	9.60	24.5	
20	612	14.30	35.4	
21	647	10.56	24.7	
22	672	11.28	25.4	
23	10,380	75.00	10.9	Upper Marker
24	12,274	0.00	0.0	

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Electropherogram Summary Continued ...

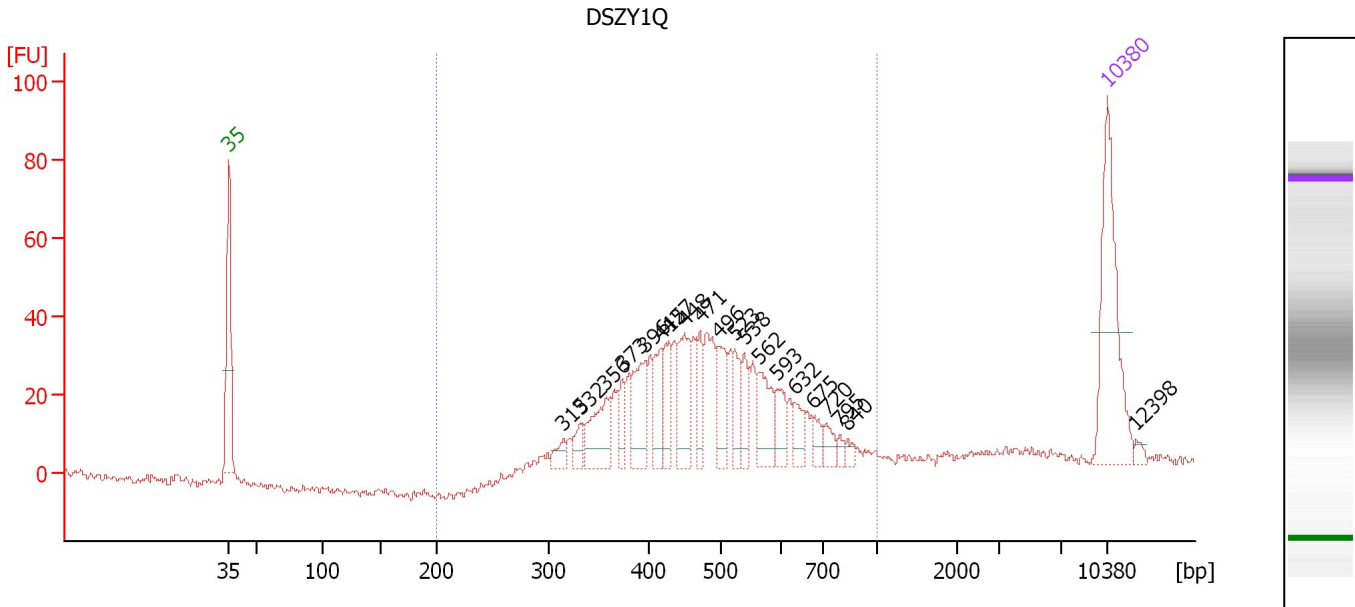
... Region table for sample 4 : DSZY1P

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
222	1,000	438	4,058.8	1,095.08	 956.1	95	24.2

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 5 : DSZY1Q

Number of peaks found: 20 Corr. Area 1: 637.7
 Noise: 1.2

Peak table for sample 5 : DSZY1Q

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	315	11.53	55.5	
3	332	13.14	60.0	
4	356	41.19	175.1	
5	373	15.87	64.5	
6	396	41.67	159.6	
7	415	27.93	101.9	
8	427	27.82	98.8	
9	448	40.52	137.0	
10	471	21.59	69.5	
11	496	31.58	96.5	
12	523	19.02	55.1	
13	538	18.97	53.4	
14	562	32.42	87.4	
15	593	19.53	50.0	
16	632	14.37	34.5	
17	675	10.10	22.7	
18	720	10.20	21.5	
19	795	4.07	7.8	
20	840	4.47	8.1	
21	10,380	75.00	10.9	Upper Marker
22	12,398	0.00	0.0	

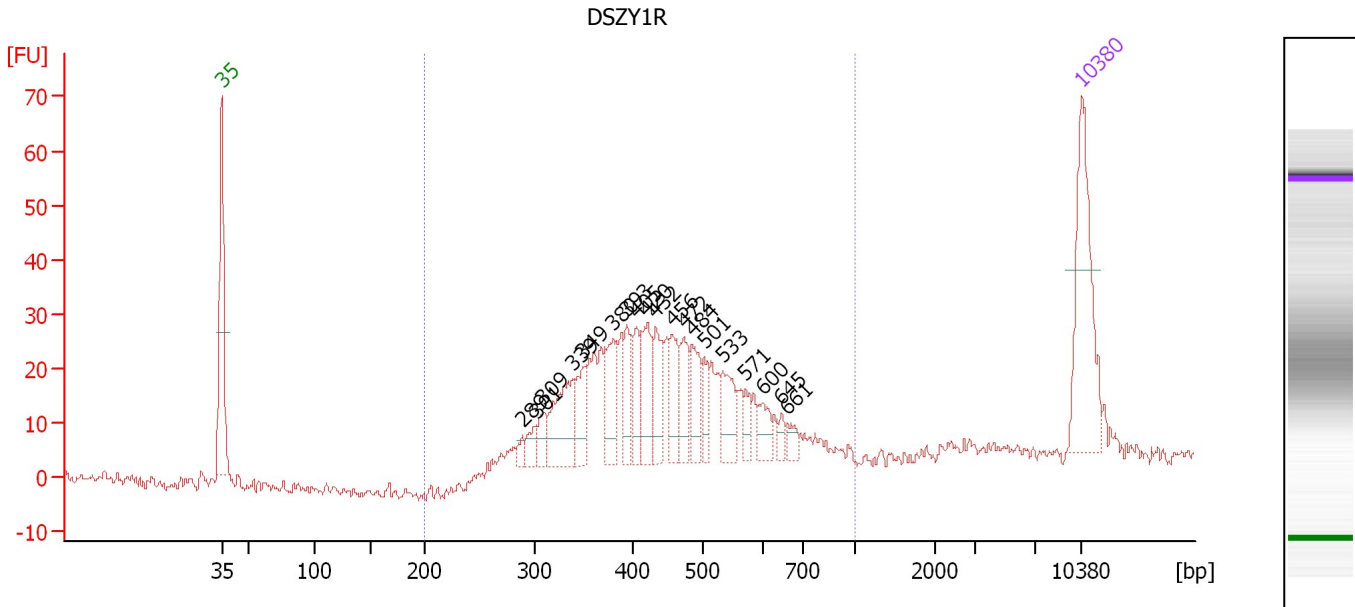
Region table for sample 5 : DSZY1Q

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	488	1,943.0	582.68	637.7	94	24.2

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Electropherogram Summary Continued ...



Overall Results for sample 6 : DSZY1R

Number of peaks found: 19 Corr. Area 1: 522.6
 Noise: 0.9

Peak table for sample 6 : DSZY1R

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	289	7.47	39.2	
3	301	13.25	66.7	
4	309	15.76	77.4	
5	339	58.67	261.9	
6	349	28.38	123.3	
7	380	42.88	171.0	
8	393	25.74	99.2	
9	405	26.98	101.0	
10	420	39.37	142.1	
11	432	32.16	112.8	
12	456	29.10	96.8	
13	472	26.47	84.9	
14	484	29.84	93.5	
15	501	17.57	53.1	
16	533	30.08	85.5	
17	571	10.62	28.2	
18	600	15.58	39.3	
19	645	6.69	15.7	
20	661	7.59	17.4	
21	10,380	75.00	10.9	Upper Marker

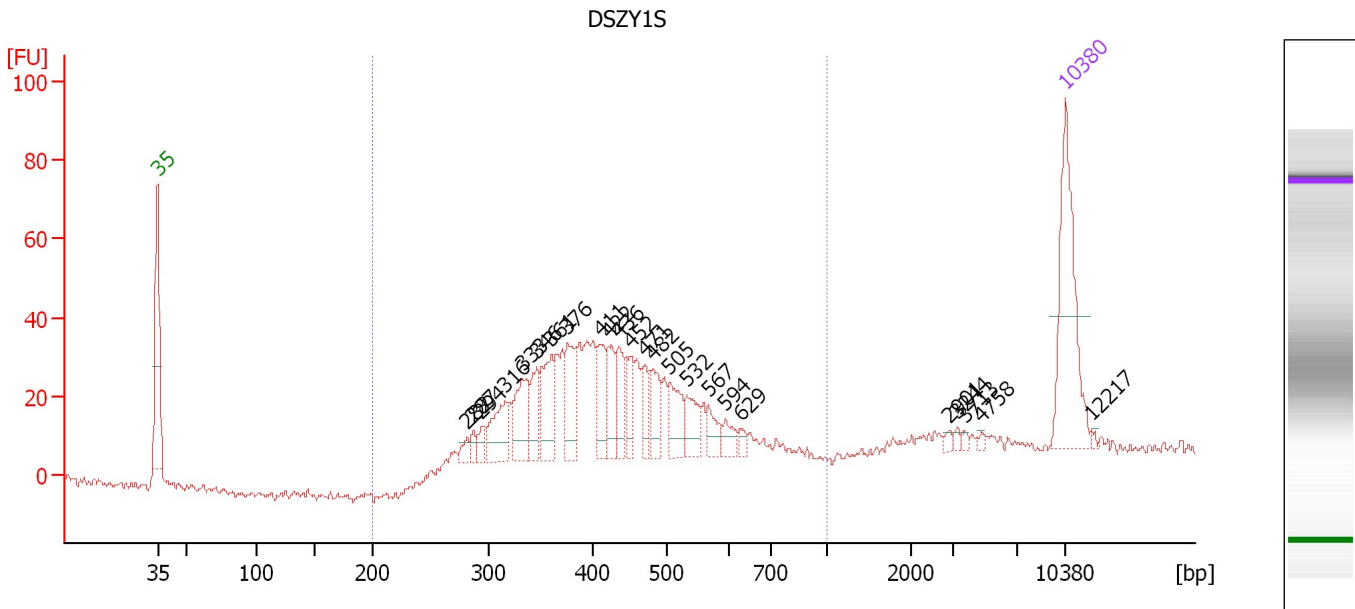
Region table for sample 6 : DSZY1R

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	450	2,427.8	667.45	522.6	94	25.1

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Overall Results for sample 7 : DSZY1S

Number of peaks found: 24 Corr. Area 1: 622.6
 Noise: 1.2

Peak table for sample 7 : DSZY1S


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	282	7.71	41.5	
3	287	7.24	38.2	
4	294	8.68	44.7	
5	316	36.28	173.8	
6	333	41.10	187.0	
7	346	26.50	115.9	
8	361	42.26	177.5	
9	376	35.91	144.6	
10	411	30.26	111.5	
11	422	25.81	92.6	
12	436	27.89	97.0	
13	452	19.91	66.7	
14	471	17.64	56.8	
15	482	23.82	74.9	
16	505	28.29	84.8	
17	532	21.22	60.4	
18	567	13.71	36.6	
19	594	9.97	25.4	
20	629	5.05	12.2	
21	2,901	2.51	1.3	
22	3,244	2.29	1.1	
23	3,713	2.00	0.8	
24	4,758	1.74	0.6	
25	10,380	75.00	10.9	Upper Marker
26	12,217	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...

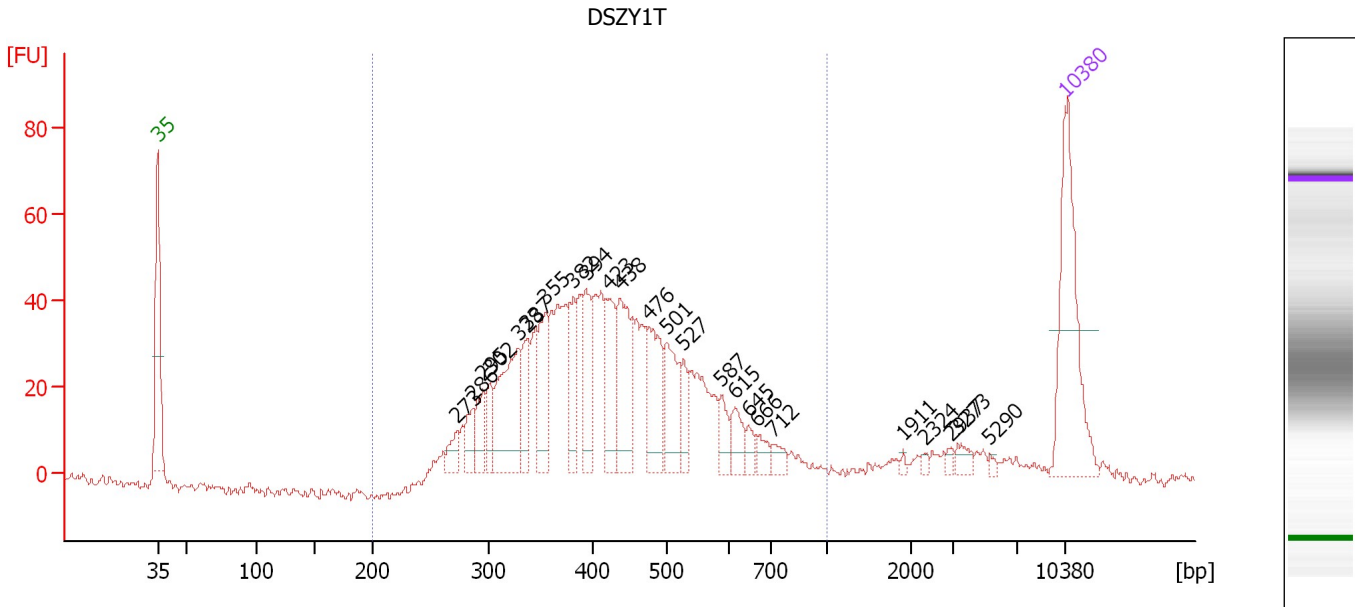
... Region table for sample 7 : DSZY1S

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	433	2,481.5	661.23	 622.6	89	24.1

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 8 : DSZY1T

Number of peaks found: 24 Corr. Area 1: 896.6
 Noise: 1.2

Peak table for sample 8 : DSZY1T


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	273	13.05	72.4	
3	286	16.82	89.2	
4	295	21.90	112.3	
5	302	18.14	91.1	
6	328	76.36	352.4	
7	337	27.47	123.4	
8	355	41.75	178.2	
9	382	32.46	128.7	
10	394	40.10	154.2	
11	423	39.58	141.9	
12	438	56.64	196.0	
13	476	49.40	157.2	
14	501	42.12	127.4	
15	527	16.24	46.7	
16	587	13.59	35.1	
17	615	15.49	38.2	
18	645	7.72	18.1	
19	666	8.53	19.4	
20	712	7.77	16.5	
21	1,911	1.58	1.3	
22	2,324	2.28	1.5	
23	2,937	2.58	1.3	
24	3,273	6.12	2.8	
25	5,290	1.93	0.6	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...

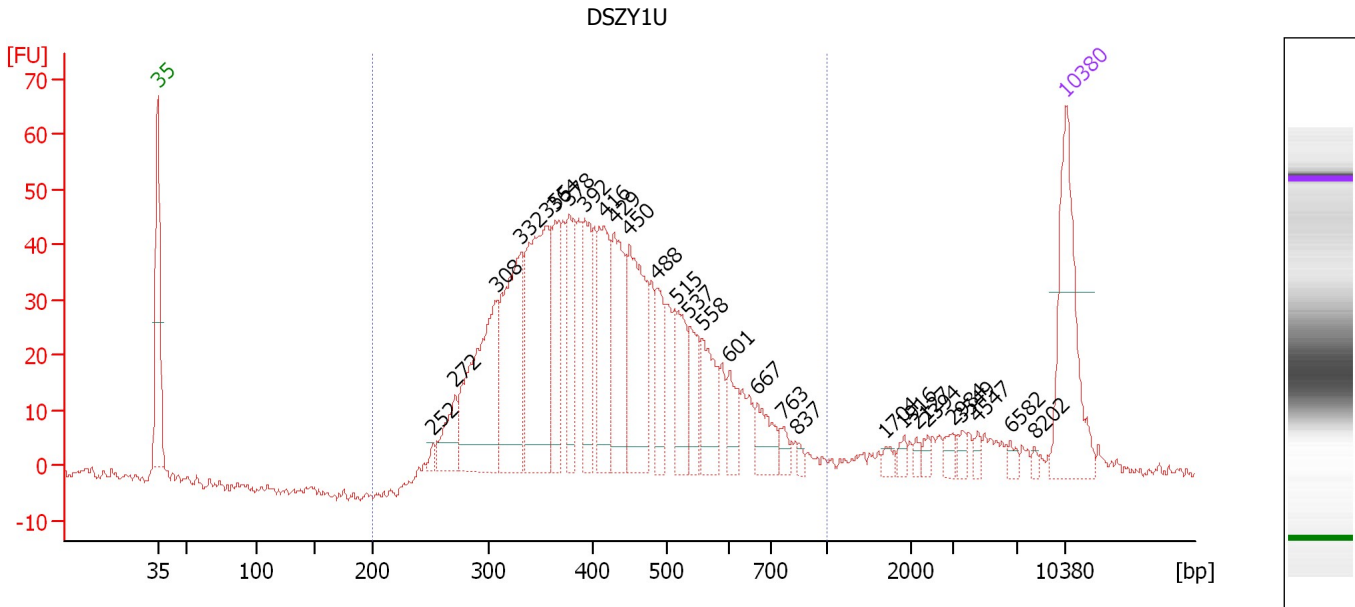
... Region table for sample 8 : DSZY1T

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	435	3,224.3	853.46	 896.6	94	25.6

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Electropherogram Summary Continued ...



Overall Results for sample 9 : DSZY1U

Number of peaks found: 28 Corr. Area 1: 1,049.4
 Noise: 1.0

Peak table for sample 9 : DSZY1U

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	252	4.85	29.2	
3	272	31.81	177.4	
4	308	134.81	663.5	
5	332	117.14	534.8	
6	355	150.90	643.5	
7	364	59.11	246.2	
8	378	55.09	221.1	
9	392	52.15	201.4	
10	416	67.74	246.8	
11	429	74.69	263.5	
12	450	92.64	311.7	
13	488	34.52	107.1	
14	515	38.34	112.7	
15	537	30.32	85.5	
16	558	38.47	104.4	
17	601	20.90	52.7	
18	667	24.39	55.4	
19	763	8.40	16.7	
20	837	4.30	7.8	
21	1,704	4.58	4.1	
22	1,916	4.63	3.7	
23	2,127	3.57	2.5	
24	2,394	4.58	2.9	
25	2,984	5.56	2.8	
26	3,549	4.37	1.9	

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Electropherogram Summary Continued ...

... Peak table for sample 9 : DSZY1U

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,547	3.78	1.3	
28	6,582	4.51	1.0	
29	8,202	2.30	0.4	
30	10,380	75.00	10.9	Upper Marker

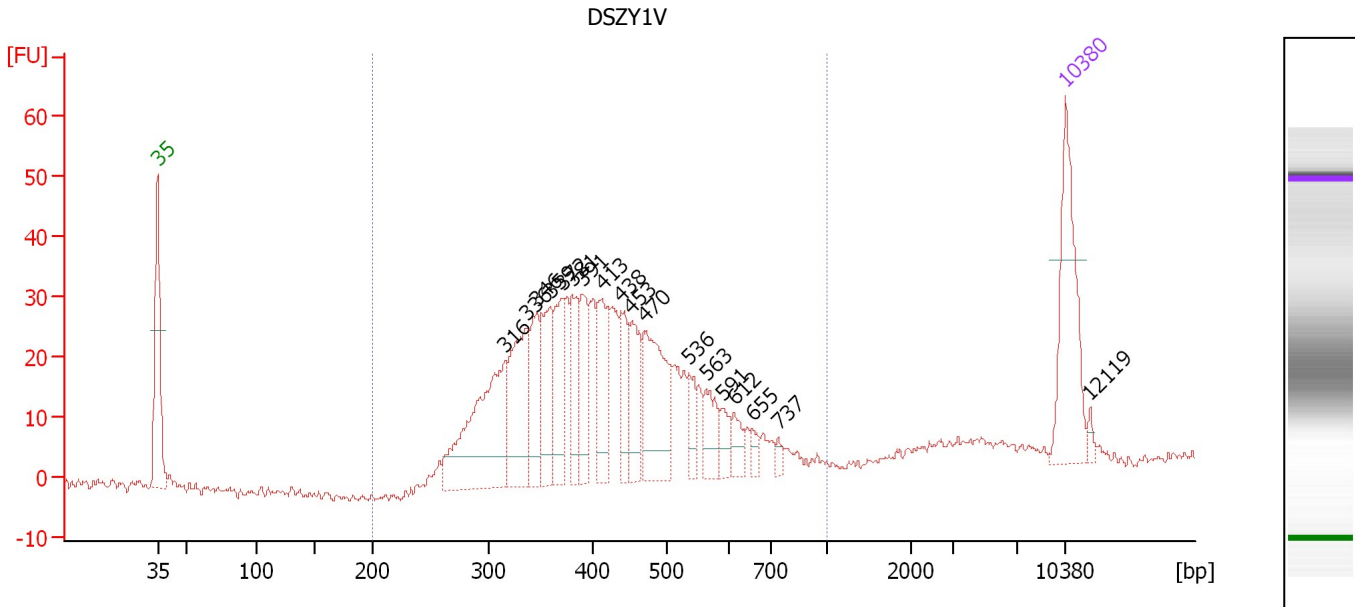
Region table for sample 9 : DSZY1U

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
200	1,000	431	4,842.3	1,260.56	1,049.4	91	27.3

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Electropherogram Summary Continued ...



Overall Results for sample 10 : DSZY1V

Number of peaks found: 18 Corr. Area 1: 616.1
 Noise: 0.7

Peak table for sample 10 : DSZY1V

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	316	154.65	741.5	
3	336	92.06	414.8	
4	346	48.89	214.0	
5	359	60.84	256.5	
6	372	53.07	216.4	
7	381	41.56	165.4	
8	391	46.24	179.4	
9	413	54.36	199.5	
10	438	34.53	119.4	
11	453	42.93	143.7	
12	470	88.95	286.9	
13	536	21.28	60.1	
14	563	27.63	74.3	
15	591	14.58	37.4	
16	612	15.09	37.3	
17	655	8.06	18.6	
18	737	5.38	11.1	
19	10,380	75.00	10.9	Upper Marker
20	12,119	0.00	0.0	

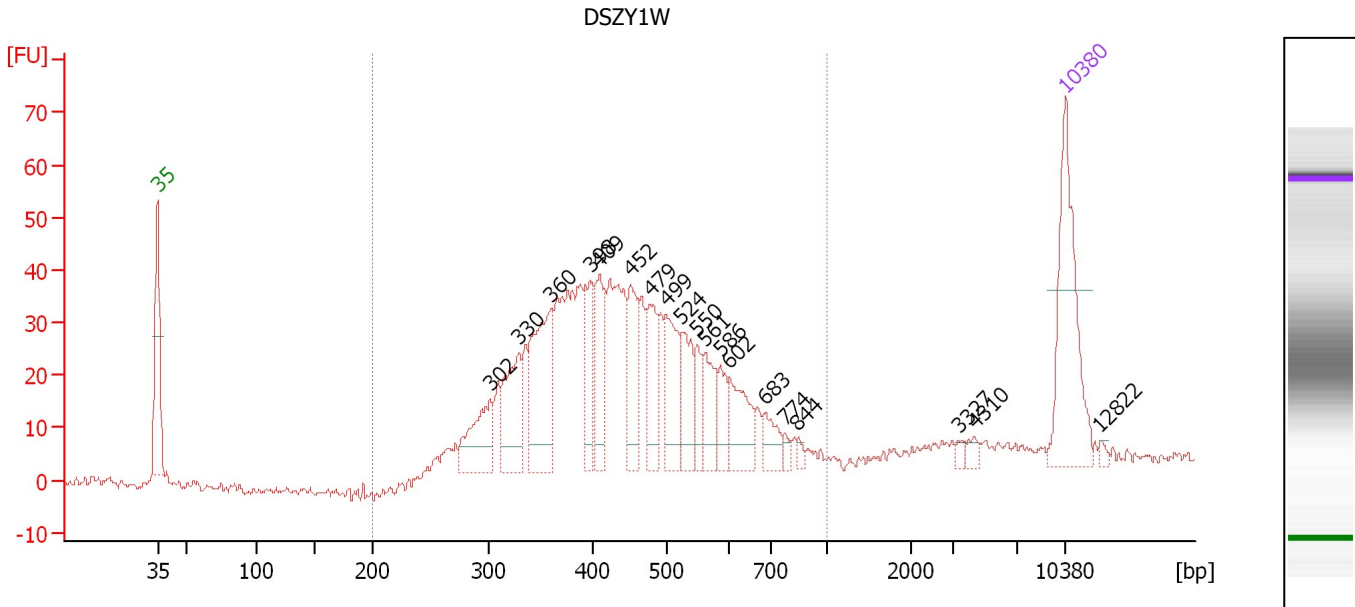
Region table for sample 10 : DSZY1V

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	431	3,600.6	946.35	616.1	90	25.8

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Electropherogram Summary Continued ...



Overall Results for sample 11 : DSZY1W

Number of peaks found: 19 Corr. Area 1: 778.7
 Noise: 1.0

Peak table for sample 11 : DSZY1W

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	302	49.08	246.4	
3	330	56.81	260.9	
4	360	83.28	350.2	
5	398	35.15	133.9	
6	409	42.77	158.4	
7	452	43.53	146.0	
8	479	39.01	123.4	
9	499	43.55	132.1	
10	524	36.03	104.1	
11	550	17.98	49.6	
12	561	30.51	82.4	
13	586	18.14	46.9	
14	602	34.31	86.4	
15	683	16.15	35.8	
16	774	4.33	8.5	
17	844	4.09	7.3	
18	3,327	3.28	1.5	
19	4,310	4.61	1.6	
20	10,380	75.00	10.9	Upper Marker
21	12,822	0.00	0.0	

Region table for sample 11 : DSZY1W

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	452	3,310.8	906.47	778.7	92	26.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2014-08-01\2014-08-01_002_2.xad

Created: 8/1/2014 9:39:10 AM
Modified: 8/1/2014 10:28:35 AM

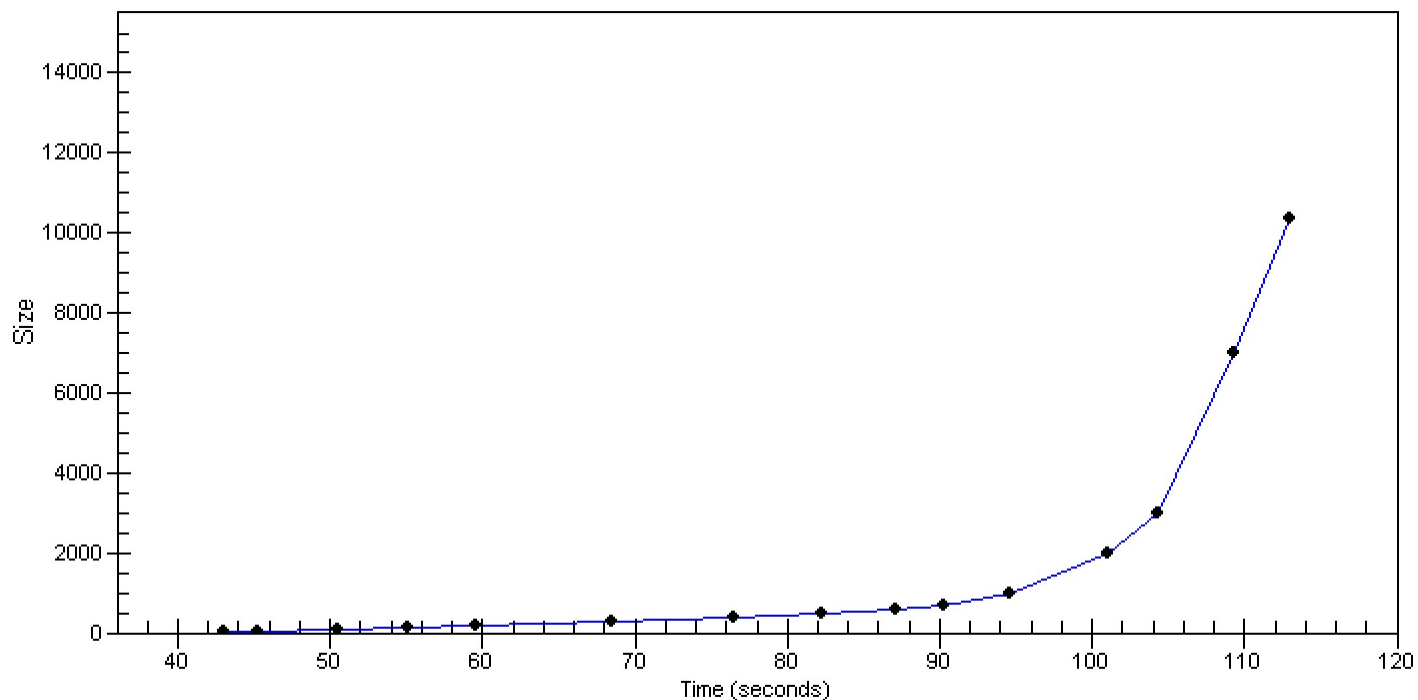
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2014-08-01\2014-08-01_002_2.xad

Created: 8/1/2014 9:39:10 AM
Modified: 8/1/2014 10:28:35 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ioanalyzer\2100 expert\data\2014-08-01\2014-08-01_002_2.xad

Created: 8/1/2014 9:39:10 AM
 Modified: 8/1/2014 10:28:35 AM

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		8/1/2014 10:20:27 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-08-01\2014-08-01_002.xad)		Instrument	Run		8/1/2014 9:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/1/2014 9:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/1/2014 9:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/1/2014 9:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/1/2014 9:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/1/2014 9:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/1/2014 9:39:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1