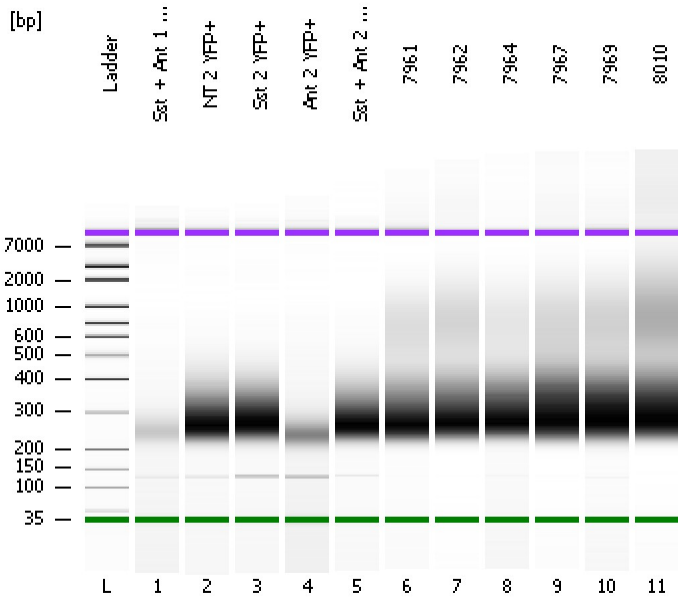


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
Modified: 3/11/2019 11:34:08 AM

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

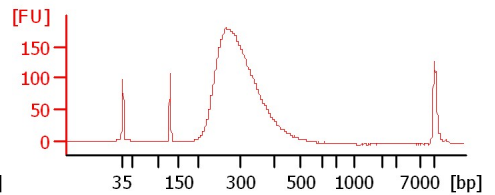
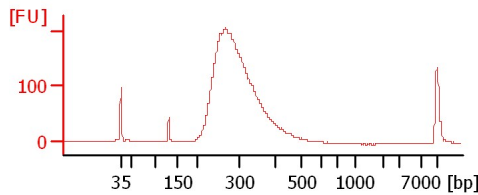
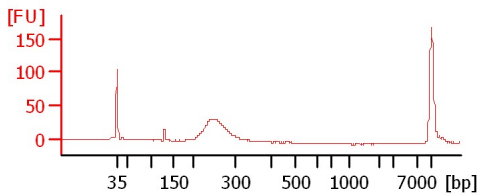
Chip Information:

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

Sst + Ant 1 YFP+

NT 2 YFP+

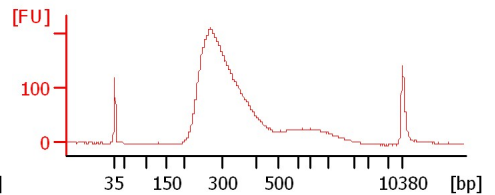
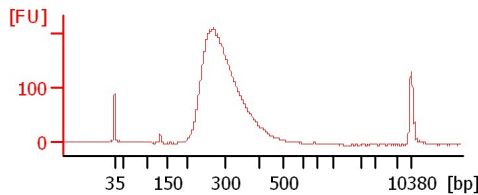
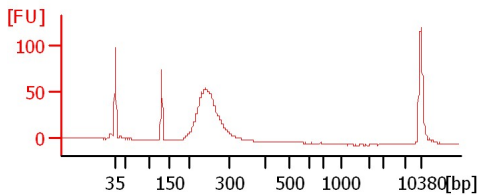
Sst 2 YFP+



Ant 2 YFP+

Sst + Ant 2 YFP+

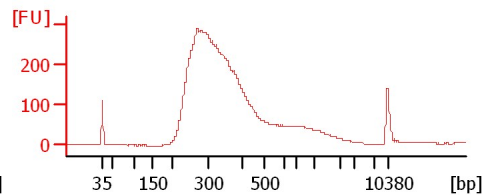
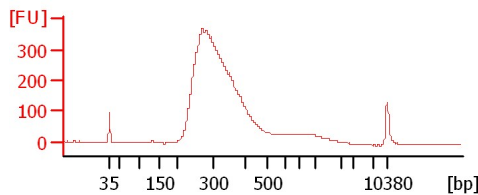
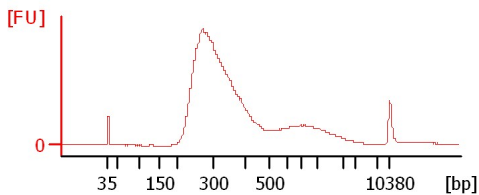
7961



7962

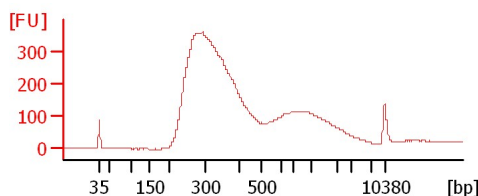
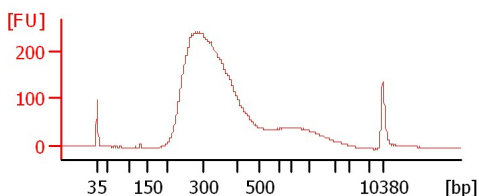
7964

7967



7969

8010



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
 Modified: 3/11/2019 11:34:08 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Sst + Ant 1 YFP+		<input type="checkbox"/>	✓			
NT 2 YFP+		<input type="checkbox"/>	✓			
Sst 2 YFP+		<input type="checkbox"/>	✓			
Ant 2 YFP+		<input type="checkbox"/>	✓			
Sst + Ant 2 YFP+		<input type="checkbox"/>	✓			
7961		<input type="checkbox"/>	✓			
7962		<input type="checkbox"/>	✓			
7964		<input type="checkbox"/>	✓			
7967		<input type="checkbox"/>	✓			
7969		<input type="checkbox"/>	✓			
8010		<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\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
Modified: 3/11/2019 11:34:08 AM

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

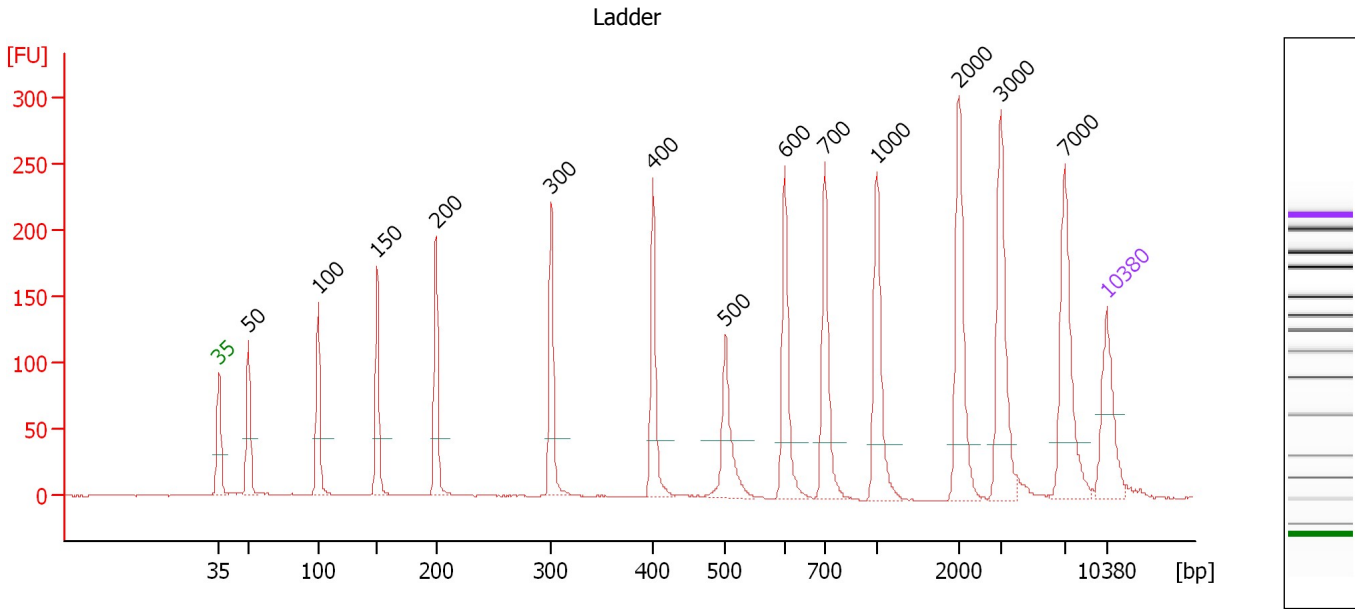
Ladder

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\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

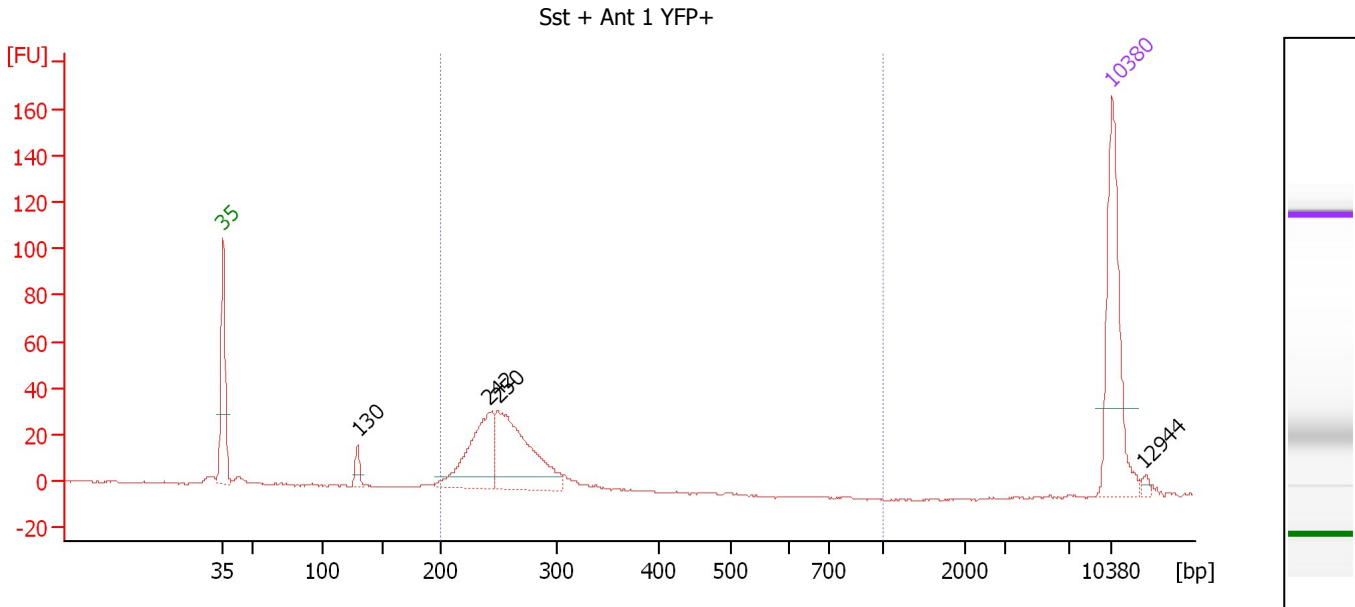
Peak table for Ladder

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	45.31
3	100	150.00	2,272.7	Ladder Peak	50.82
4	150	150.00	1,515.2	Ladder Peak	55.49
5	200	150.00	1,136.4	Ladder Peak	60.11
6	300	150.00	757.6	Ladder Peak	69.19
7	400	150.00	568.2	Ladder Peak	77.22
8	500	150.00	454.5	Ladder Peak	82.94
9	600	150.00	378.8	Ladder Peak	87.61
10	700	150.00	324.7	Ladder Peak	90.76
11	1,000	150.00	227.3	Ladder Peak	94.88
12	2,000	150.00	113.6	Ladder Peak	101.35
13	3,000	150.00	75.8	Ladder Peak	104.63
14	7,000	150.00	32.5	Ladder Peak	109.68
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
 Modified: 3/11/2019 11:34:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sst + Ant 1 YFP+

Number of peaks found: 4 Corr. Area 1: 291.3
 Noise: 0.3

Peak table for sample 1 : Sst + Ant 1 YFP+

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	130	11.73	137.1		53.58
3	242	91.00	570.1		63.91
4	250	121.02	734.3		64.63
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,944	0.00	0.0		115.52

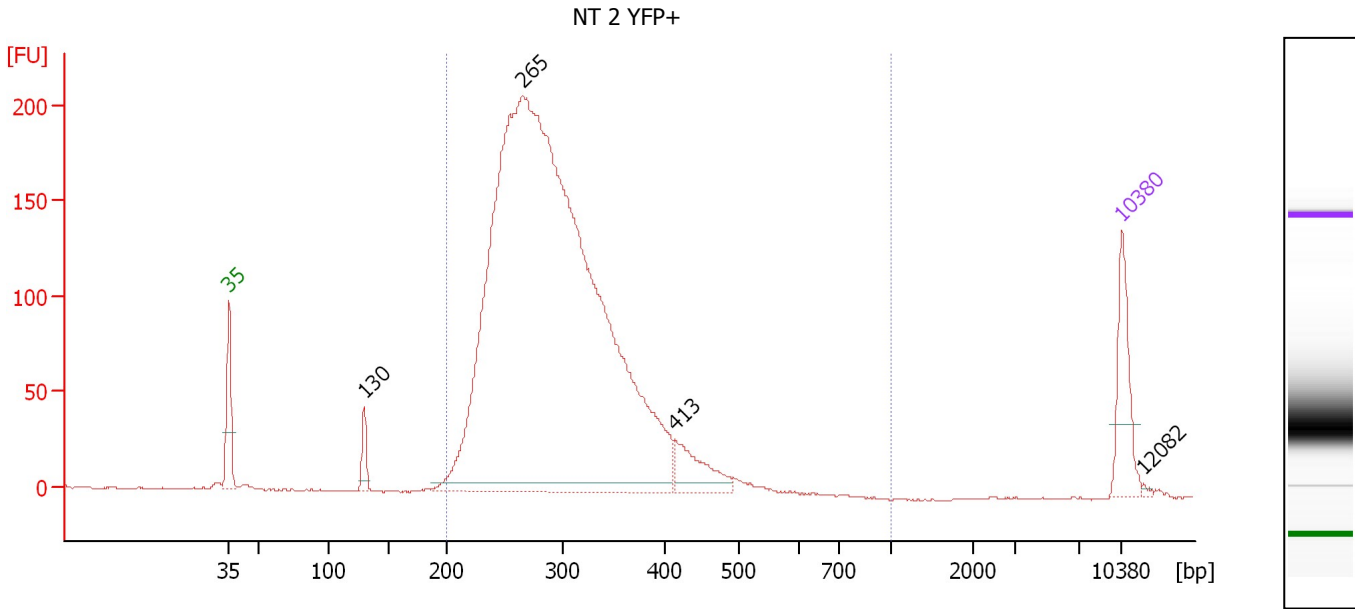
Region table for sample 1 : Sst + Ant 1 YFP+

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	255	203.73	291.3	1,212.9	88	9.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
 Modified: 3/11/2019 11:34:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : NT 2 YFP+

Number of peaks found: 4 Corr. Area 1: 3,105.1
 Noise: 0.3

Peak table for sample 2 : NT 2 YFP+

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	130	37.95	443.8		53.58
3	265	2,967.01	16,974.6		66.00
4	413	81.99	300.9		77.96
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,082	0.00	0.0		114.67

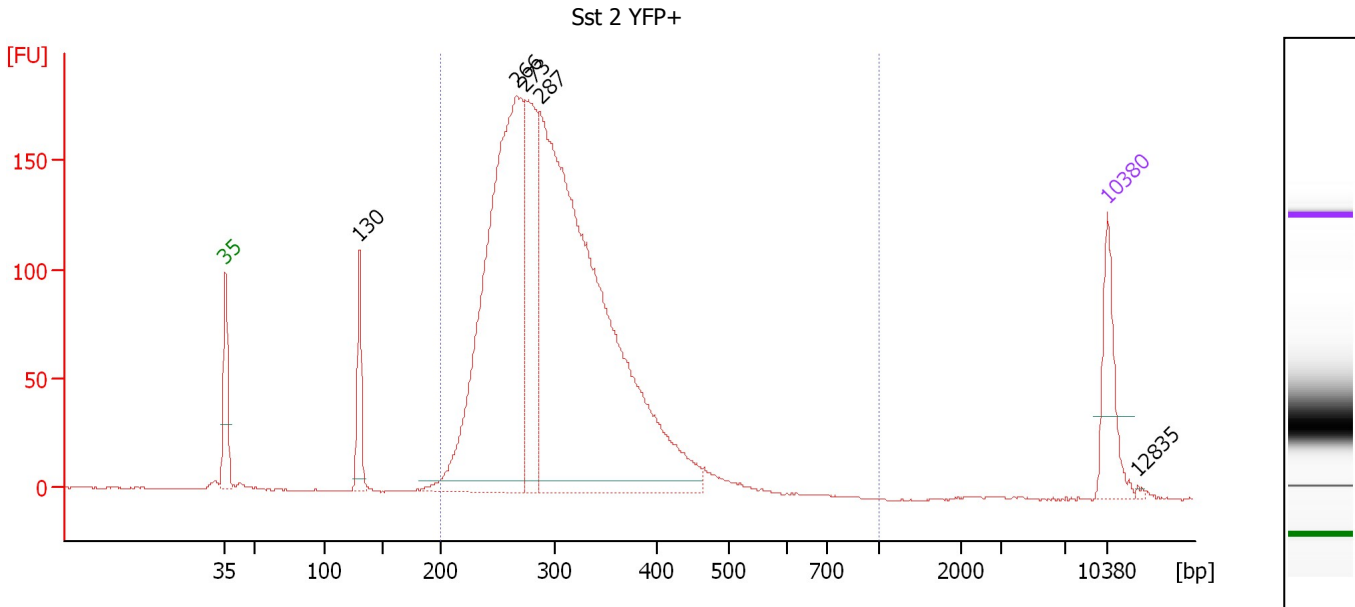
Region table for sample 2 : NT 2 YFP+

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	298	2,880.16	3,105.1	15,216.8	98	18.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
 Modified: 3/11/2019 11:34:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sst 2 YFP+

Number of peaks found: 5 Corr. Area 1: 2,849.1
 Noise: 0.3

Peak table for sample 3 : Sst 2 YFP+

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	130	101.89	1,187.2		53.62
3	266	992.51	5,642.8		66.15
4	273	289.37	1,603.1		66.78
5	287	1,489.36	7,875.4		67.97
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,835	0.00	0.0		115.41

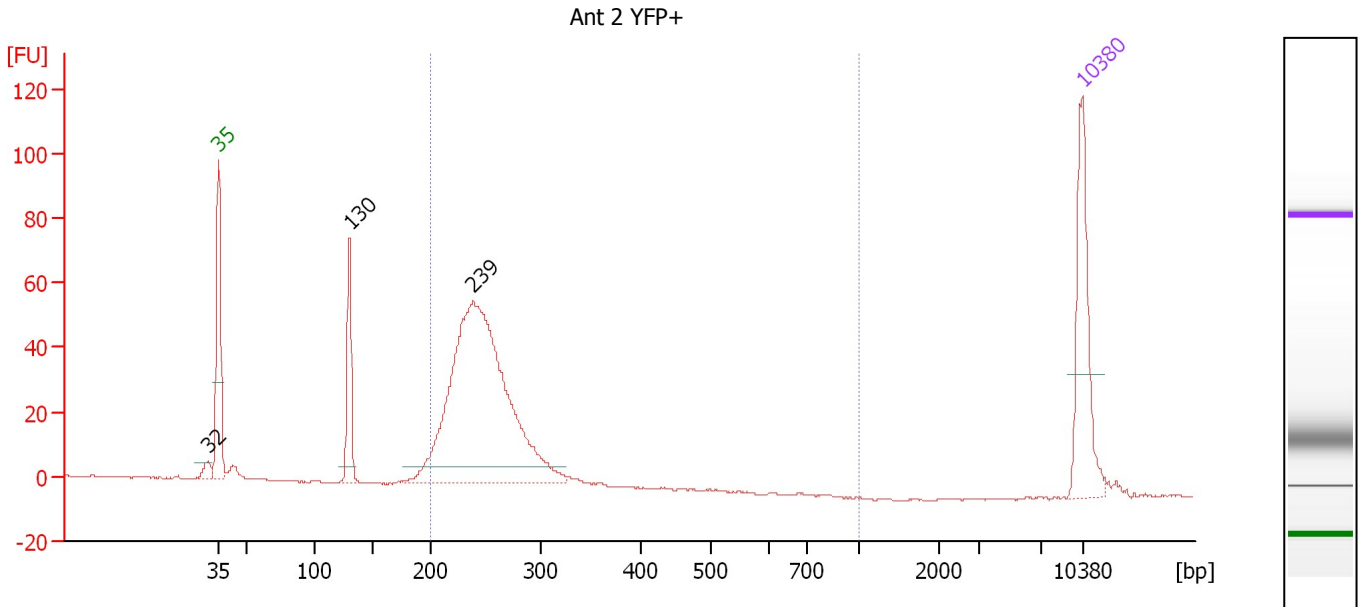
Region table for sample 3 : Sst 2 YFP+

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	303	2,712.08	2,849.1	14,098.2	96	18.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
 Modified: 3/11/2019 11:34:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Ant 2 YFP+

Number of peaks found: 3 Corr. Area 1: 491.8
 Noise: 0.3

Peak table for sample 4 : Ant 2 YFP+

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.14
2	35	125.00	5,411.3	Lower Marker	43.00
3	130	72.31	842.1		53.63
4	239	520.17	3,304.0		63.61
5	10,380	75.00	10.9	Upper Marker	113.00

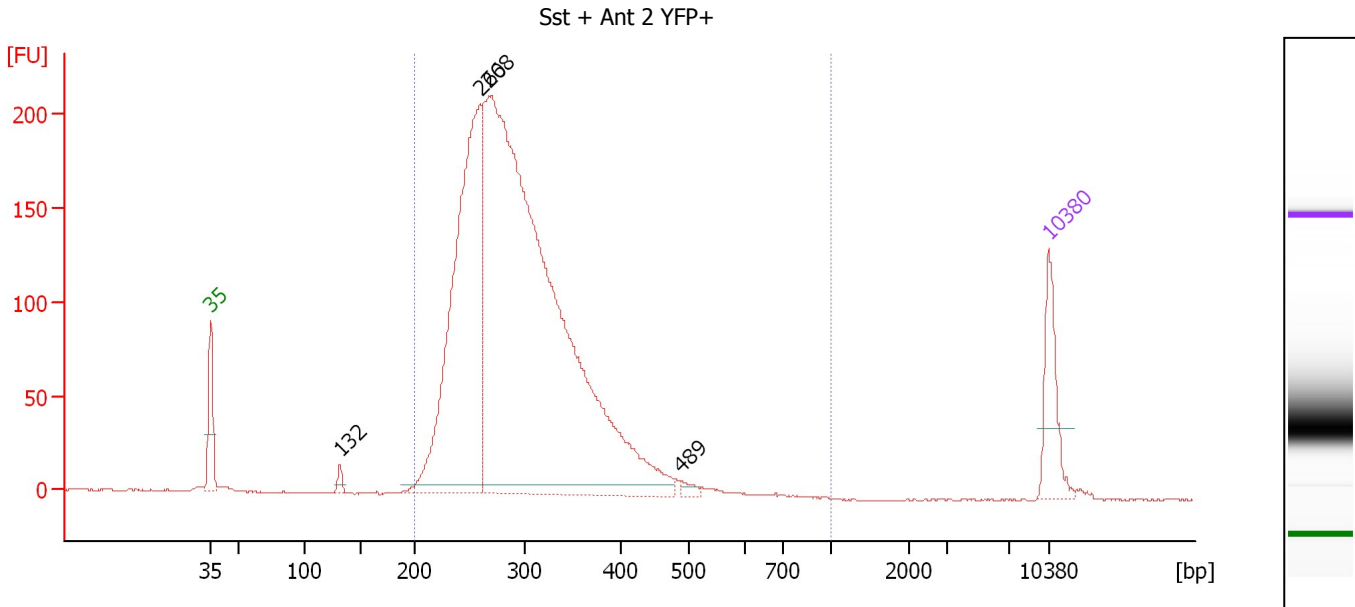
Region table for sample 4 : Ant 2 YFP+

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	249	507.61	491.8	3,101.9	83	10.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
 Modified: 3/11/2019 11:34:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sst + Ant 2 YFP+

Number of peaks found: 4 Corr. Area 1: 3,049.1
 Noise: 0.3

Peak table for sample 5 : Sst + Ant 2 YFP+

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	132	14.35	164.5		53.83
3	260	826.14	4,817.1		65.55
4	268	2,123.05	12,016.2		66.26
5	489	10.51	32.6		82.30
6	10,380	75.00	10.9	Upper Marker	113.00

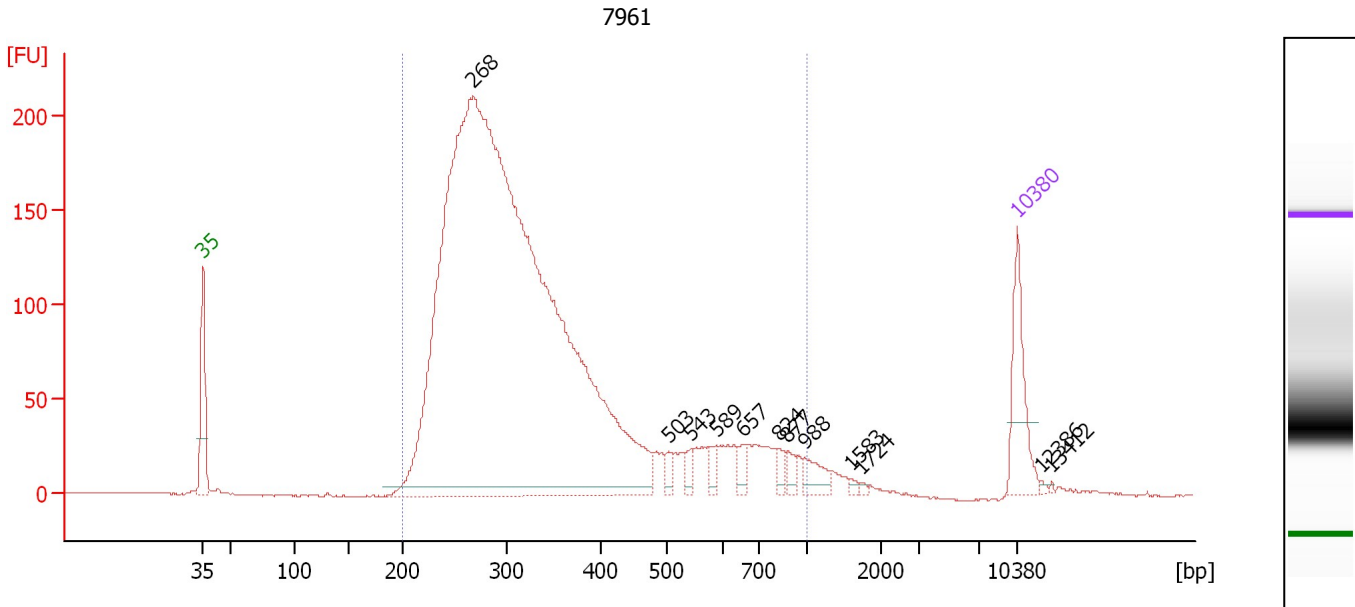
Region table for sample 5 : Sst + Ant 2 YFP+

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	299	2,776.44	3,049.1	14,635.2	99	19.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
 Modified: 3/11/2019 11:34:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 7961

Number of peaks found: 12 Corr. Area 1: 3,630.4
 Noise: 0.3

Peak table for sample 6 : 7961

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	268	3,069.73	17,386.7		66.24
3	503	12.54	37.8		83.07
4	543	16.09	44.9		84.94
5	589	15.45	39.7		87.10
6	657	15.64	36.1		89.39
7	824	12.26	22.5		92.46
8	877	13.94	24.1		93.20
9	988	26.47	40.6		94.71
10	1,583	3.58	3.4		98.65
11	1,724	2.70	2.4		99.57
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,386	0.00	0.0		114.97
14	13,412	0.00	0.0		115.98

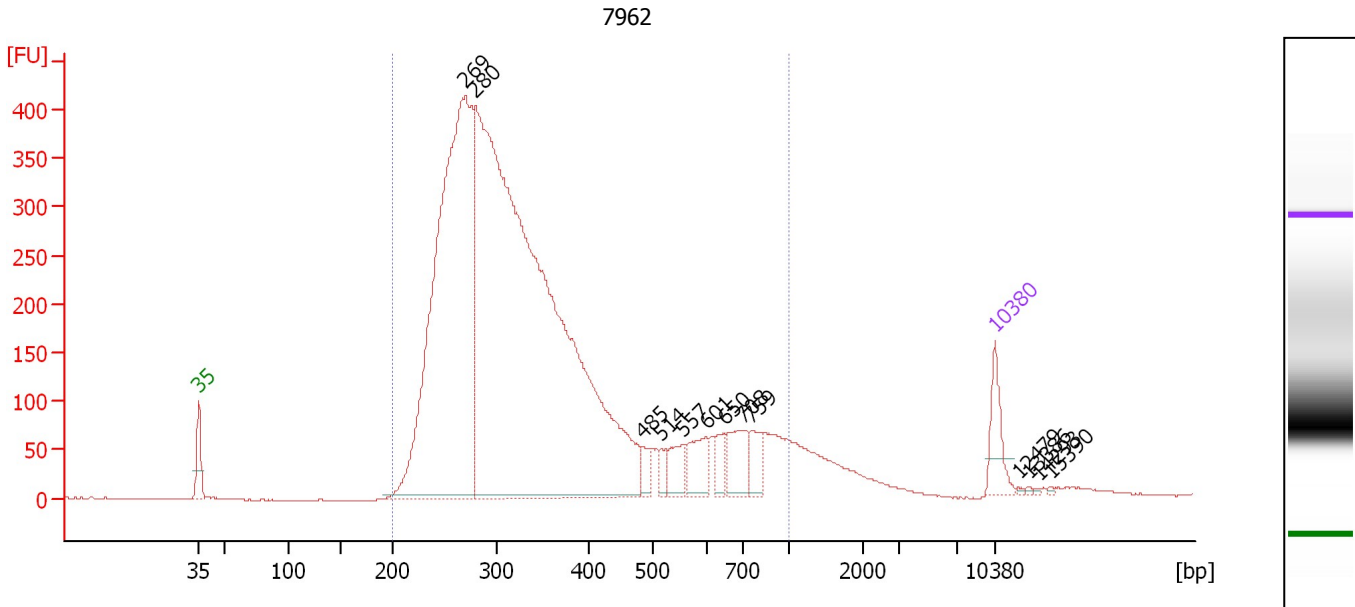
Region table for sample 6 : 7961

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	348	3,059.41	3,630.3	15,192.7	98	39.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
 Modified: 3/11/2019 11:34:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 7962

Number of peaks found: 13 Corr. Area 1: 7,467.1
 Noise: 0.4

Peak table for sample 7 : 7962

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	269	2,064.39	11,618.8		66.40
3	280	3,896.20	21,118.5		67.33
4	485	39.59	123.6		82.10
5	514	34.87	102.8		83.60
6	557	66.96	182.0		85.62
7	601	89.85	226.6		87.63
8	650	49.71	115.9		89.18
9	708	104.08	222.7		90.87
10	759	62.18	124.1		91.57
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,479	0.00	0.0		115.06
13	13,386	0.00	0.0		115.95
14	14,293	0.00	0.0		116.84
15	15,390	0.00	0.0		117.92

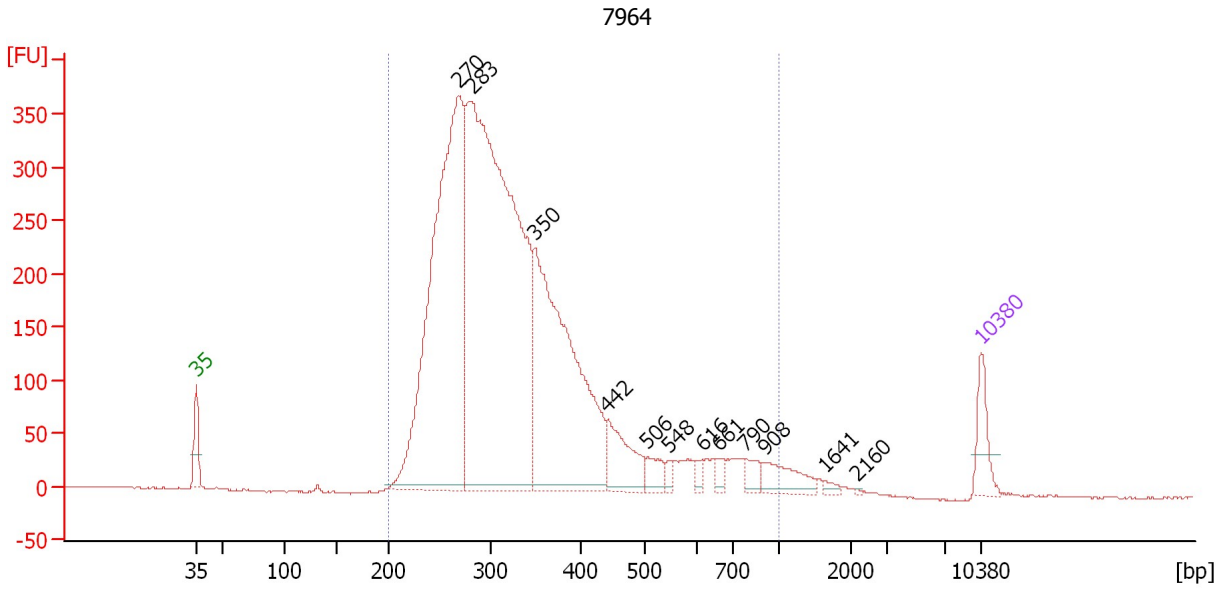
Region table for sample 7 : 7962

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	363	6,098.07	7,467.1	29,352.5	95	40.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
 Modified: 3/11/2019 11:34:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 7964

Number of peaks found: 12 Corr. Area 1: 6,412.0
 Noise: 0.7

Peak table for sample 8 : 7964

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	270	1,838.10	10,331.5		66.43
3	283	2,632.12	14,109.6		67.62
4	350	1,163.74	5,043.4		73.18
5	442	177.15	606.9		79.64
6	506	54.18	162.3		83.20
7	548	18.52	51.2		85.20
8	616	19.34	47.6		88.10
9	661	24.25	55.6		89.52
10	790	39.34	75.5		92.00
11	908	87.04	145.3		93.61
12	1,641	10.48	9.7		99.03
13	2,160	1.79	1.3		101.88
14	10,380	75.00	10.9	Upper Marker	113.00

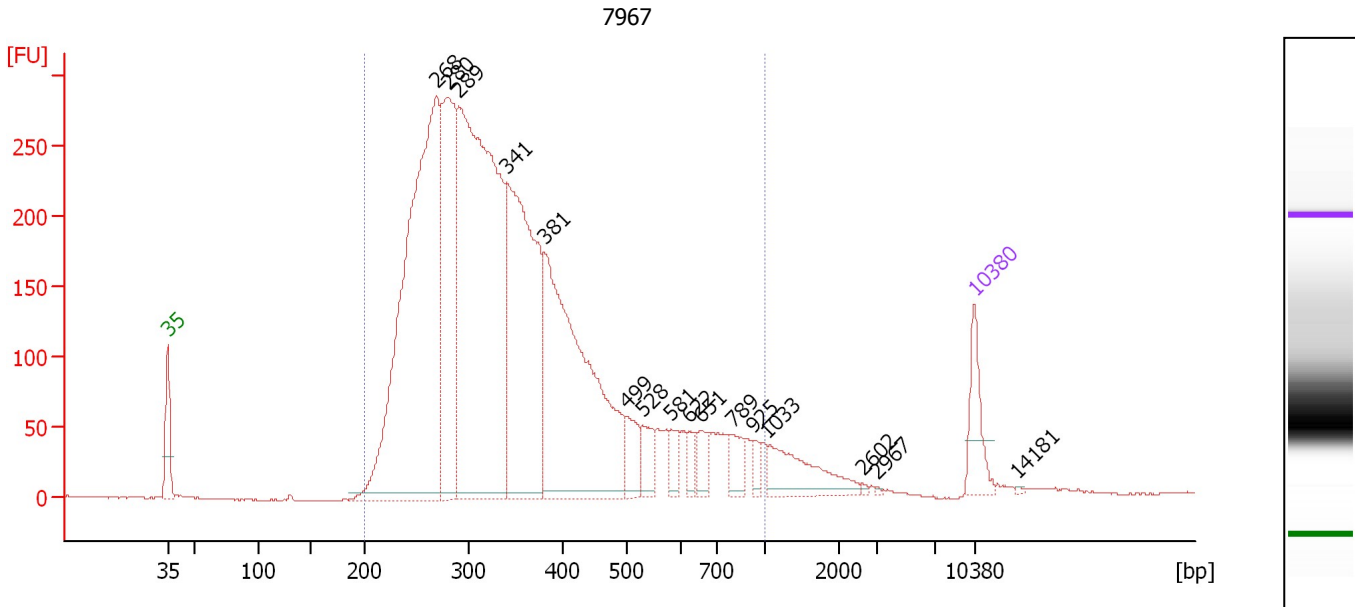
Region table for sample 8 : 7964

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	344	5,995.60	6,412.0	29,224.9	98	35.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
 Modified: 3/11/2019 11:34:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 7967

Number of peaks found: 16 Corr. Area 1: 6,067.8
 Noise: 0.6

Peak table for sample 9 : 7967

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	268	1,482.46	8,370.4		66.32
3	280	568.37	3,076.2		67.37
4	289	1,525.05	7,983.5		68.23
5	341	809.53	3,602.0		72.45
6	381	868.21	3,452.1		75.70
7	499	74.34	225.7		82.88
8	528	58.03	166.7		84.22
9	581	36.79	96.0		86.71
10	622	27.13	66.1		88.29
11	651	48.70	113.4		89.20
12	789	50.21	96.4		91.98
13	925	21.85	35.8		93.85
14	1,033	129.10	189.4		95.09
15	2,602	3.07	1.8		103.33
16	2,967	1.79	0.9		104.53
17	10,380	75.00	10.9	Upper Marker	113.00
18	14,181	0.00	0.0		116.73

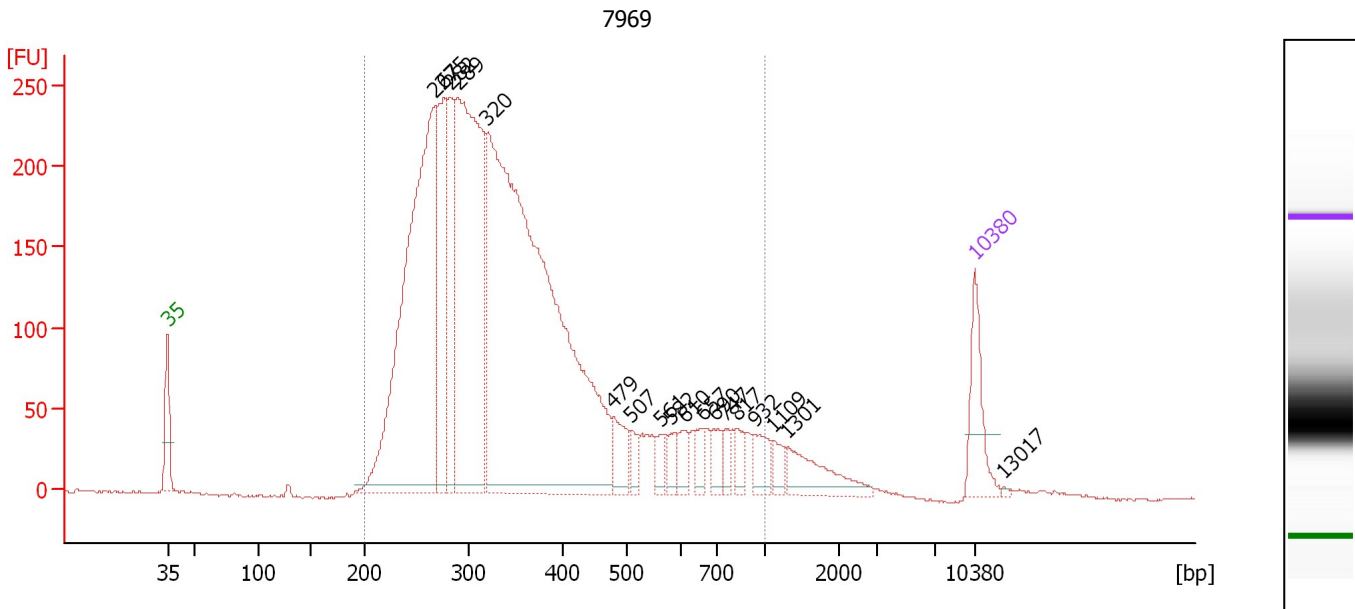
Region table for sample 9 : 7967

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	365	5,525.50	6,067.8	26,116.8	97	37.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
 Modified: 3/11/2019 11:34:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 7969

Number of peaks found: 18 Corr. Area 1: 5,154.2
 Noise: 0.7

Peak table for sample 10 : 7969

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	267	961.61	5,461.8		66.17
3	275	277.59	1,528.3		66.94
4	282	214.14	1,152.4		67.52
5	289	793.64	4,161.6		68.19
6	320	1,717.98	8,140.3		70.78
7	479	55.90	176.9		81.72
8	507	23.31	69.7		83.25
9	561	26.48	71.5		85.80
10	582	23.47	61.1		86.76
11	610	29.73	73.9		87.91
12	657	26.43	61.0		89.39
13	690	29.45	64.6		90.45
14	747	21.14	42.9		91.41
15	817	27.08	50.2		92.37
16	932	41.41	67.3		93.95
17	1,109	24.24	33.1		95.58
18	1,301	78.36	91.2		96.83
19	10,380	75.00	10.9	Upper Marker	113.00
20	13,017	0.00	0.0		115.59

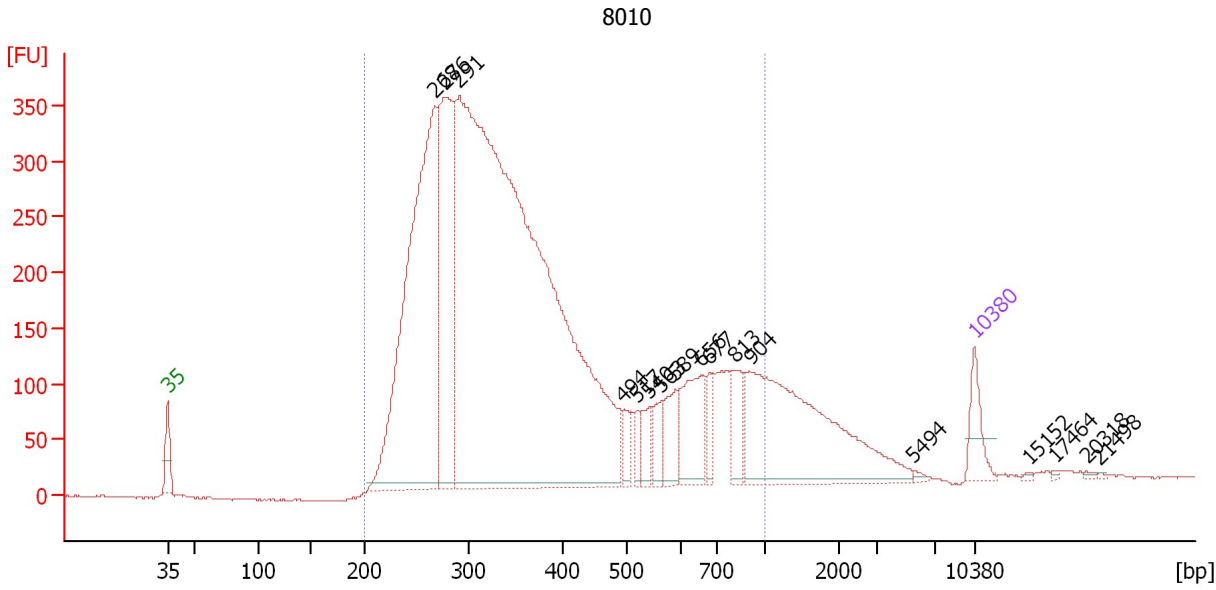
Region table for sample 10 : 7969

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	366	4,299.05	5,154.2	20,325.2	96	38.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
 Modified: 3/11/2019 11:34:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 8010

Number of peaks found: 17 Corr. Area 1: 7,677.0
 Noise: 0.8

Peak table for sample 11 : 8010

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	268	1,654.53	9,366.9		66.25
3	276	839.24	4,604.7		67.03
4	291	4,736.91	24,704.3		68.33
5	494	48.03	147.4		82.59
6	517	46.09	135.0		83.75
7	540	63.32	177.6		84.82
8	563	72.92	196.3		85.88
9	589	104.50	268.9		87.09
10	656	211.16	488.0		89.36
11	677	60.96	136.4		90.04
12	813	108.24	201.8		92.31
13	904	731.94	1,226.3		93.57
14	5,494	6.32	1.7		107.78
15	10,380	75.00	10.9	Upper Marker	113.00
16	15,152	0.00	0.0		117.69
17	17,464	0.00	0.0		119.96
18	20,318	0.00	0.0		122.77
19	21,498	0.00	0.0		123.93

Region table for sample 11 : 8010

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	393	7,721.48	7,677.0	35,290.6	92	42.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-11\2019-03-11_002.xad

Created: 3/11/2019 10:39:28 AM
Modified: 3/11/2019 11:34:08 AM

Gel Image