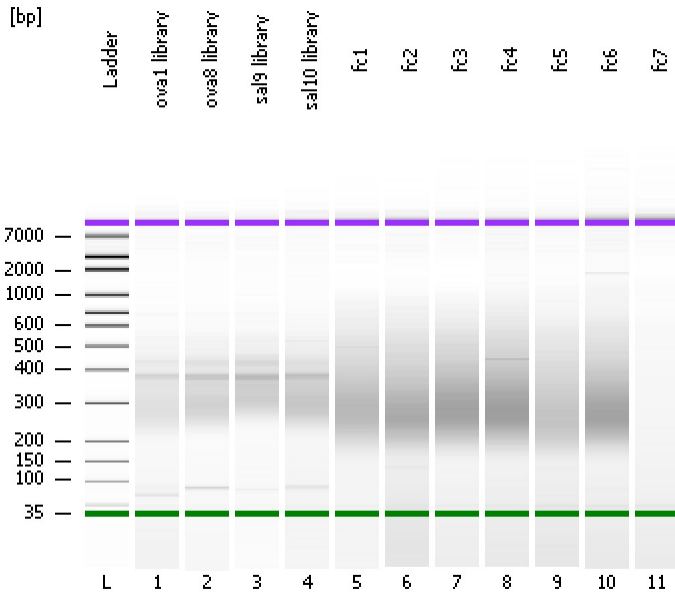


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
Modified: 12/11/2015 4:31:12 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

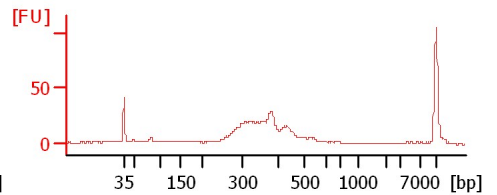
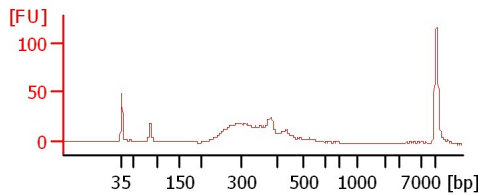
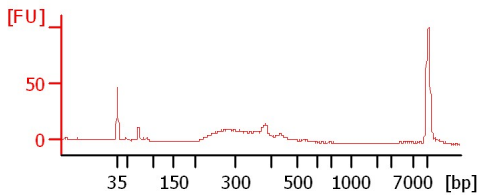
Chip Information:

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

ova1 library

ova8 library

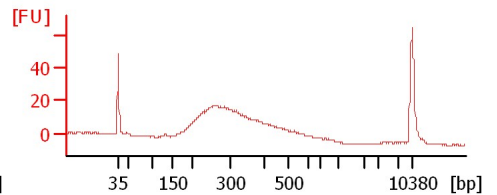
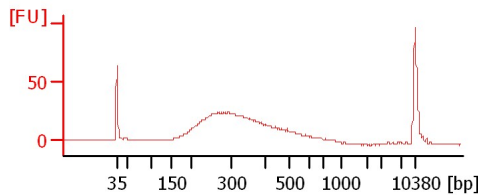
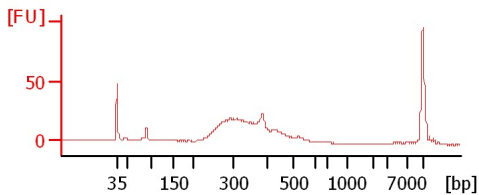
sal9 library



sal10 library

fc1

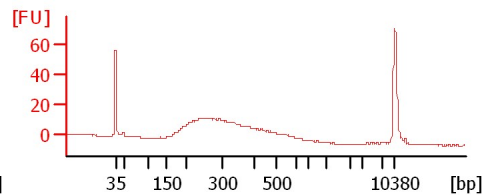
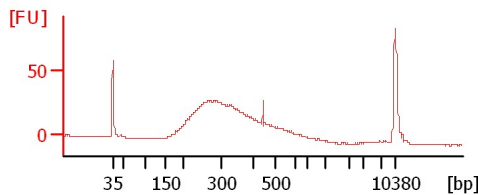
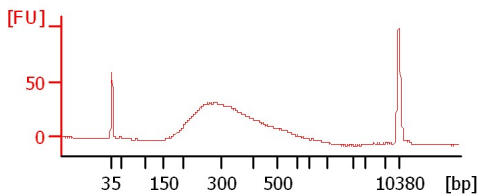
fc2



fc3

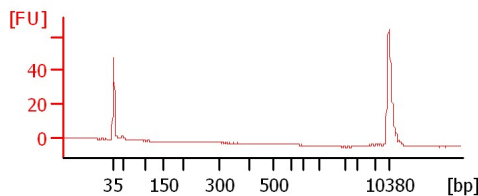
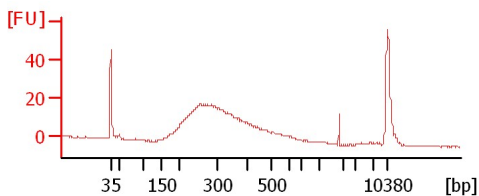
fc4

fc5



fc6

fc7



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
 Modified: 12/11/2015 4:31:12 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ova1 library		<input type="checkbox"/>	✓			
ova8 library		<input type="checkbox"/>	✓			
sal9 library		<input type="checkbox"/>	✓			
sal10 library		<input type="checkbox"/>	✓			
fc1		<input type="checkbox"/>	✓			
fc2		<input type="checkbox"/>	✓			
fc3		<input type="checkbox"/>	✓			
fc4		<input type="checkbox"/>	✓			
fc5		<input type="checkbox"/>	✓			
fc6		<input type="checkbox"/>	✓			
fc7		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
Modified: 12/11/2015 4:31:12 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

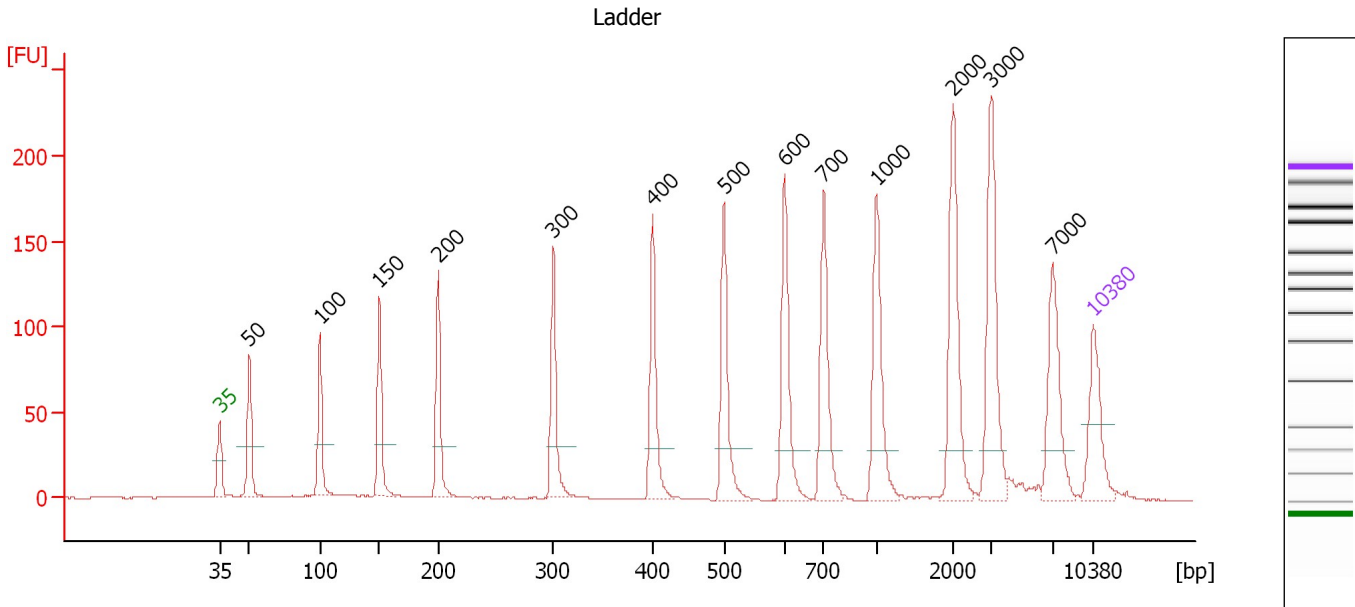
Ladder

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:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
 Modified: 12/11/2015 4:31:12 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

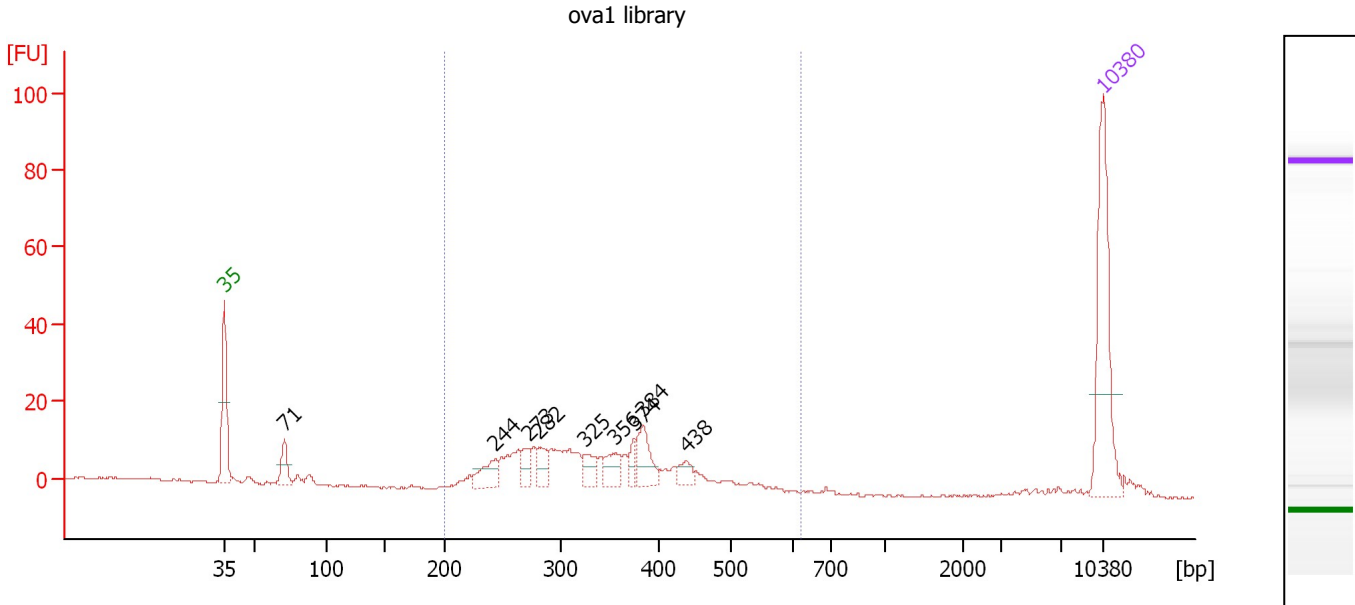
Peak table for Ladder

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	45.39
3	100	150.00	2,272.7	Ladder Peak	51.07
4	150	150.00	1,515.2	Ladder Peak	55.81
5	200	150.00	1,136.4	Ladder Peak	60.51
6	300	150.00	757.6	Ladder Peak	69.74
7	400	150.00	568.2	Ladder Peak	77.68
8	500	150.00	454.5	Ladder Peak	83.40
9	600	150.00	378.8	Ladder Peak	88.27
10	700	150.00	324.7	Ladder Peak	91.39
11	1,000	150.00	227.3	Ladder Peak	95.62
12	2,000	150.00	113.6	Ladder Peak	101.77
13	3,000	150.00	75.8	Ladder Peak	104.84
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:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
 Modified: 12/11/2015 4:31:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ova1 library

Number of peaks found: 9 Corr. Area 1: 227.9
 Noise: 0.2

Peak table for sample 1 : ova1 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	71	22.02	471.1		47.76
3	244	22.71	141.0		64.58
4	273	13.23	73.5		67.21
5	282	17.26	92.8		68.06
6	325	16.44	76.7		71.71
7	356	18.79	80.0		74.18
8	374	9.04	36.6		75.62
9	384	28.17	111.2		76.39
10	438	10.84	37.5		79.83
11	10,380	75.00	10.9	Upper Marker	113.00

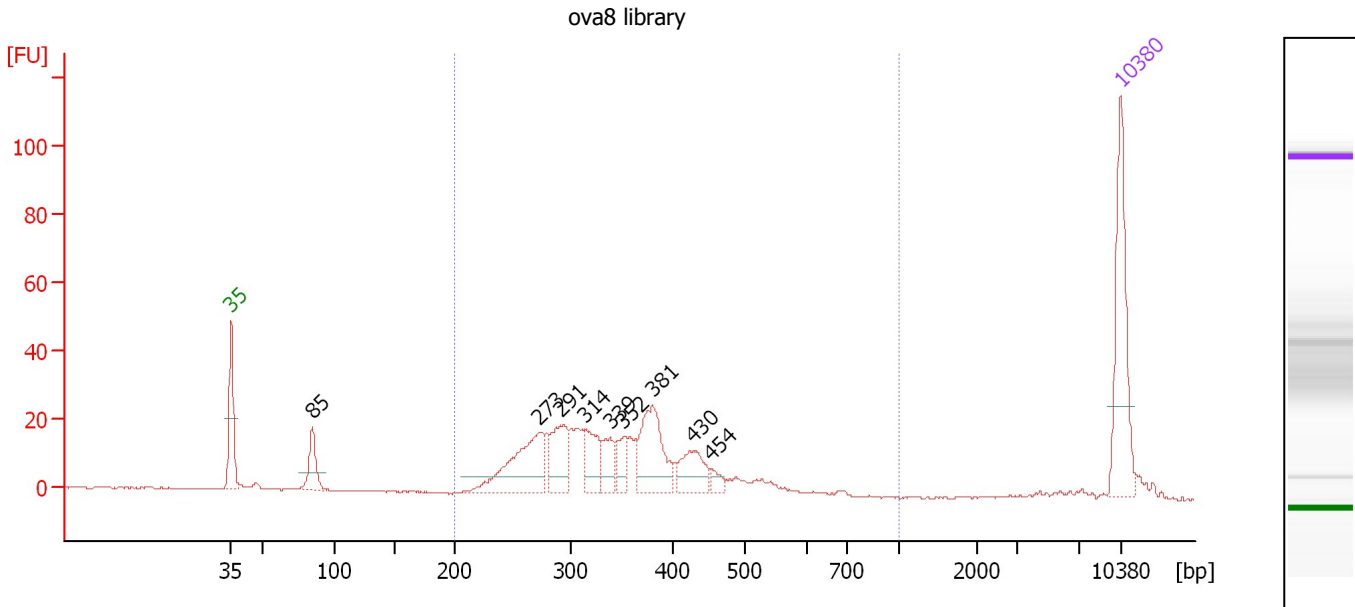
Region table for sample 1 : ova1 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	622	340	227.9	1,286.1	271.24	87	21.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
 Modified: 12/11/2015 4:31:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : ova8 library

Number of peaks found: 9 Corr. Area 1: 399.9
 Noise: 0.2

Peak table for sample 2 : ova8 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	85	38.76	690.1		49.38
3	273	100.84	560.4		67.21
4	291	53.93	280.9		68.89
5	314	38.94	188.1		70.82
6	339	27.98	125.2		72.80
7	352	22.26	95.7		73.89
8	381	75.09	298.8		76.15
9	430	36.59	129.0		79.38
10	454	9.05	30.2		80.77
11	10,380	75.00	10.9	Upper Marker	113.00

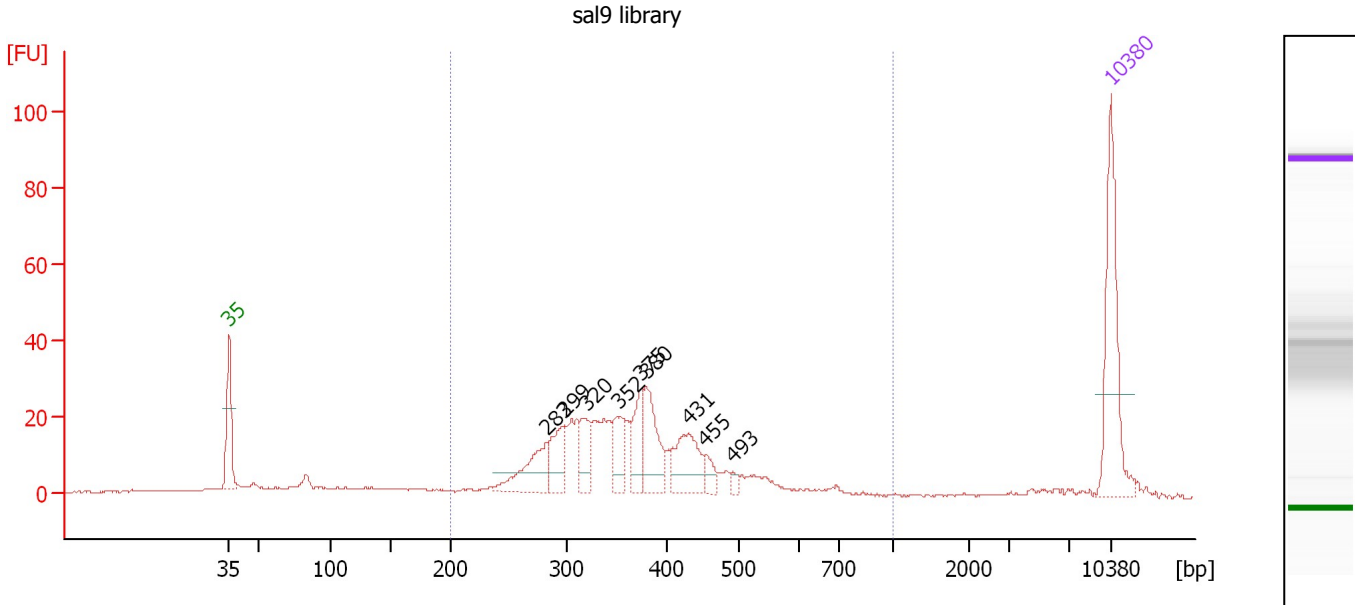
Region table for sample 2 : ova8 library

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	349	399.9	2,132.4	461.83	90	21.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
 Modified: 12/11/2015 4:31:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sal9 library

Number of peaks found: 9 Corr. Area 1: 420.7
 Noise: 0.2

Peak table for sample 3 : sal9 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	283	54.20	290.0		68.18
3	299	39.65	201.1		69.62
4	320	32.57	154.3		71.31
5	352	35.24	151.8		73.85
6	375	35.20	142.1		75.71
7	380	56.75	226.2		76.10
8	431	52.66	185.2		79.44
9	455	11.60	38.6		80.84
10	493	4.90	15.1		82.99
11	10,380	75.00	10.9	Upper Marker	113.00

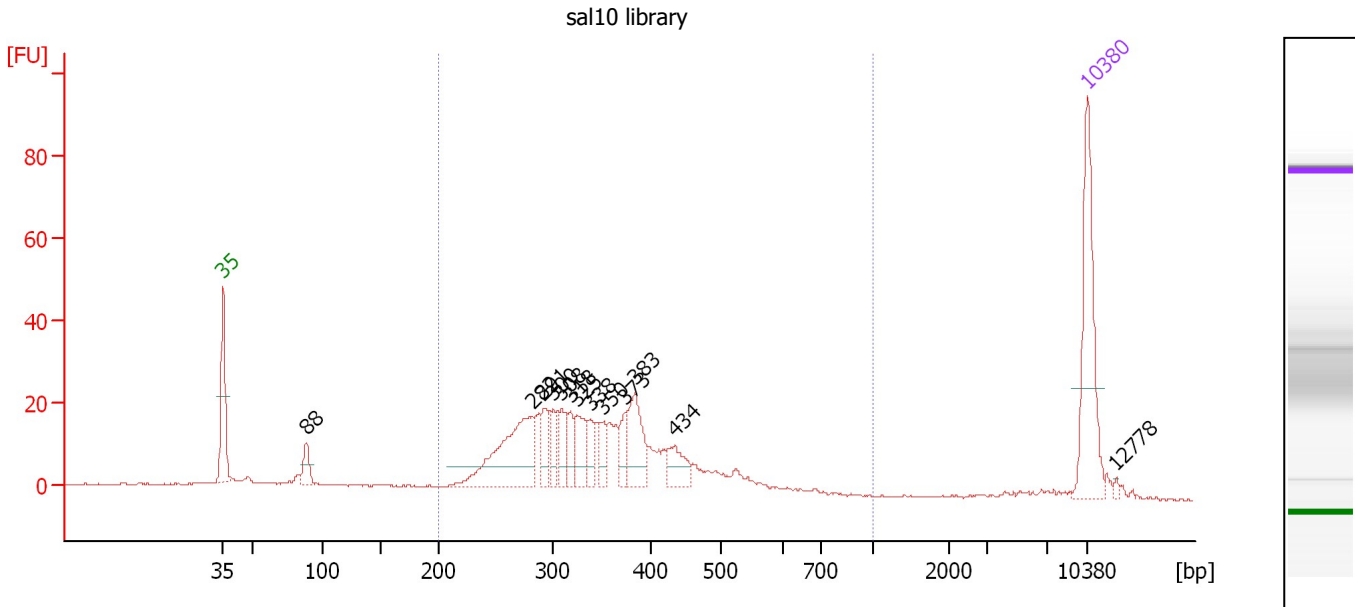
Region table for sample 3 : sal9 library

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	375	420.7	2,203.0	509.59	85	24.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
 Modified: 12/11/2015 4:31:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sal10 library

Number of peaks found: 13 Corr. Area 1: 424.3
 Noise: 0.2

Peak table for sample 4 : sal10 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	88	21.60	370.8		49.74
3	282	120.34	645.8		68.10
4	291	28.37	147.6		68.93
5	300	21.12	106.6		69.75
6	308	25.25	124.1		70.40
7	318	19.35	92.3		71.13
8	325	31.89	148.9		71.69
9	338	18.14	81.4		72.73
10	350	15.87	68.7		73.72
11	373	22.12	89.8		75.54
12	383	48.48	191.6		76.36
13	434	26.19	91.5		79.60
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,778	0.00	0.0		115.33

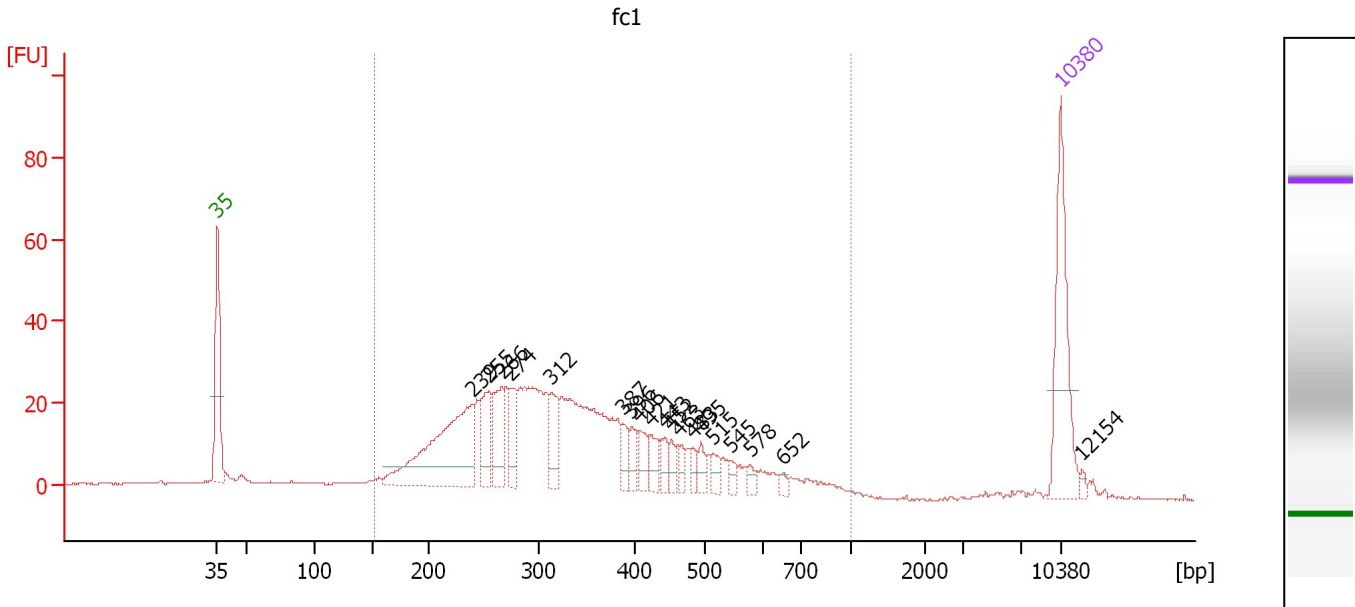
Region table for sample 4 : sal10 library

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	354	424.3	2,554.4	554.94	85	24.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
 Modified: 12/11/2015 4:31:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : fc1

Number of peaks found: 19 Corr. Area 1: 732.9
 Noise: 0.2

Peak table for sample 5 : fc1

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	239	172.73	1,095.1		64.11
3	255	40.81	242.6		65.57
4	266	46.22	262.9		66.63
5	274	28.50	157.3		67.38
6	312	36.12	175.7		70.65
7	387	16.61	65.0		76.67
8	396	13.42	51.3		77.38
9	406	18.27	68.1		78.04
10	421	15.95	57.4		78.88
11	443	13.43	45.9		80.17
12	452	12.42	41.6		80.65
13	463	10.19	33.4		81.27
14	483	8.81	27.6		82.42
15	495	12.02	36.8		83.09
16	515	10.30	30.3		84.15
17	545	6.41	17.8		85.61
18	578	6.86	18.0		87.20
19	652	4.40	10.2		89.90
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,154	0.00	0.0		114.73

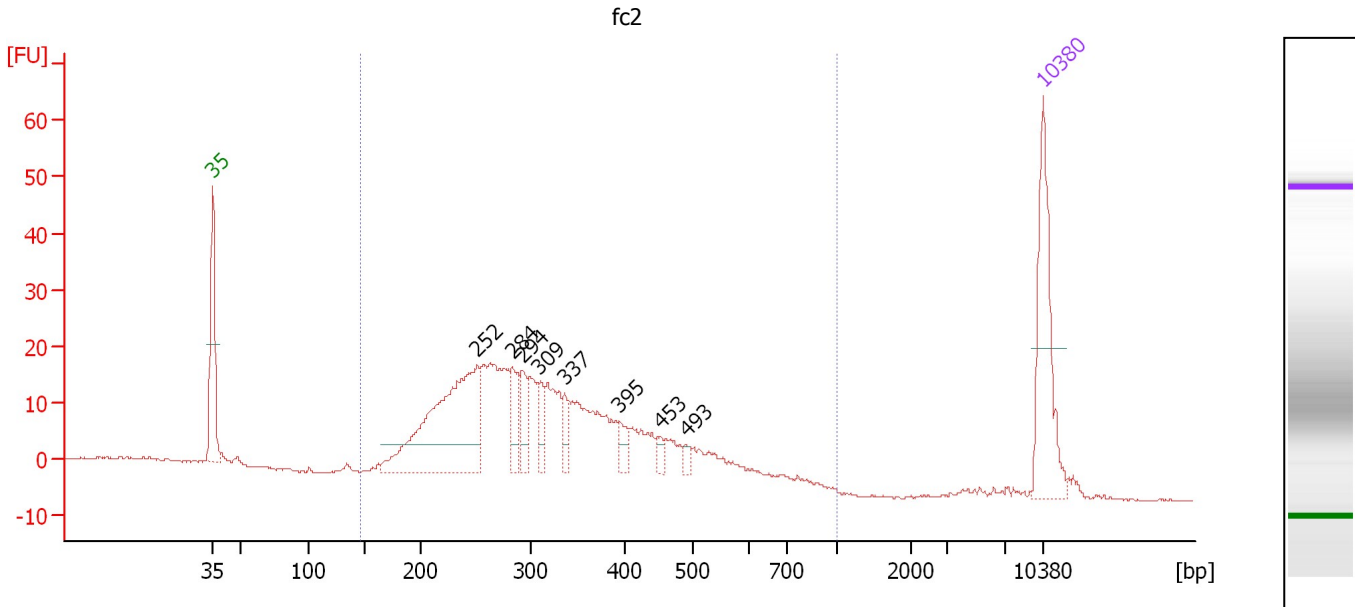
Region table for sample 5 : fc1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
153	1,000	350	732.9	4,763.5	938.72	92	36.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
 Modified: 12/11/2015 4:31:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : fc2

Number of peaks found: 8 Corr. Area 1: 497.2
 Noise: 0.2

Peak table for sample 6 : fc2

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	252	226.38	1,359.8		65.33
3	284	33.62	179.4		68.25
4	294	28.20	145.5		69.15
5	309	21.22	104.1		70.45
6	337	16.84	75.8		72.65
7	395	12.98	49.8		77.28
8	453	7.67	25.6		80.74
9	493	5.74	17.7		82.99
10	10,380	75.00	10.9	Upper Marker	113.00

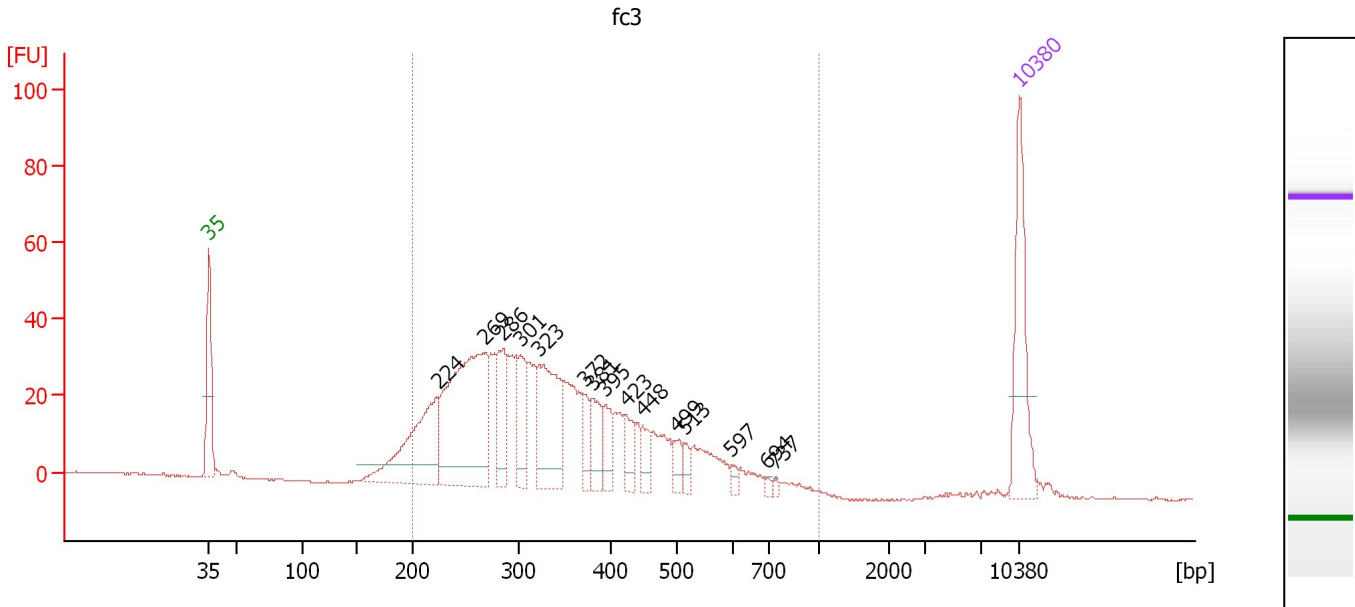
Region table for sample 6 : fc2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
147	1,000	334	497.2	4,077.7	788.13	96	33.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

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 Modified: 12/11/2015 4:31:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : fc3

Number of peaks found: 15 Corr. Area 1: 872.5
 Noise: 0.1

Peak table for sample 7 : fc3

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	224	151.29	1,021.7		62.76
3	269	259.41	1,459.7		66.90
4	286	64.75	343.3		68.42
5	301	54.02	271.6		69.85
6	323	112.22	526.6		71.55
7	372	22.72	92.7		75.42
8	381	35.43	140.7		76.20
9	395	26.24	100.7		77.26
10	423	26.05	93.3		79.01
11	448	19.26	65.1		80.44
12	499	15.25	46.3		83.34
13	513	10.13	29.9		84.03
14	597	5.68	14.4		88.13
15	694	3.34	7.3		91.22
16	737	3.07	6.3		91.91
17	10,380	75.00	10.9	Upper Marker	113.00

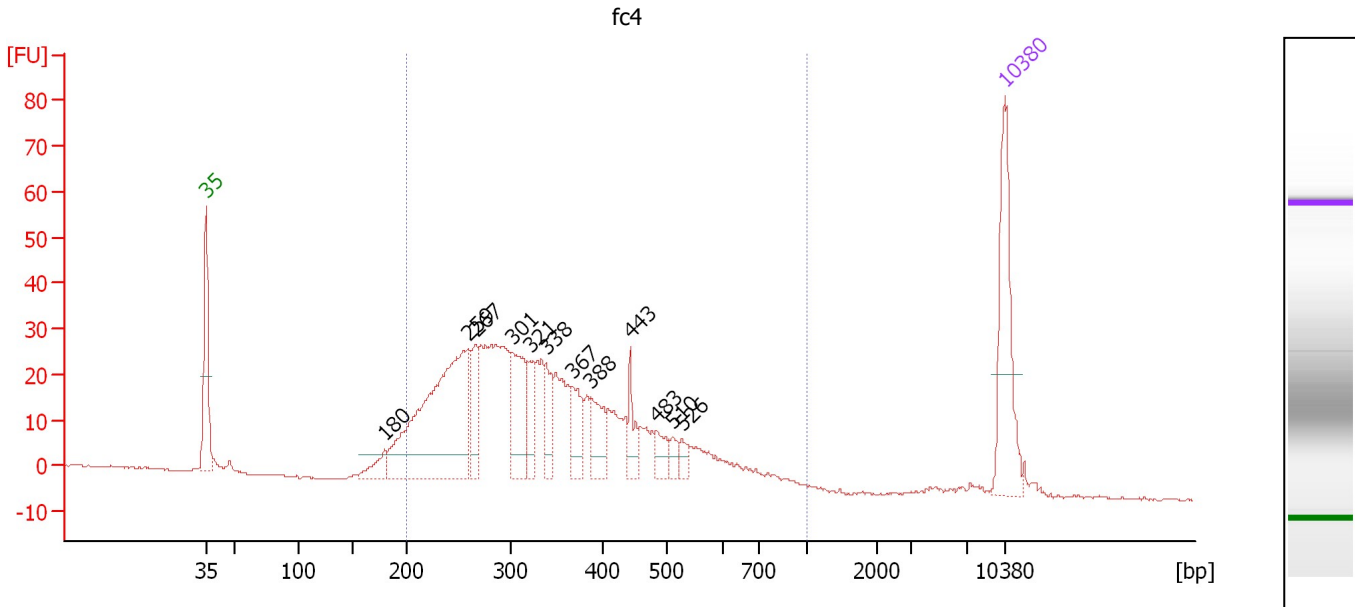
Region table for sample 7 : fc3

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	348	872.5	5,242.0	1,072.67	95	31.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

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 Modified: 12/11/2015 4:31:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : fc4

Number of peaks found: 12 Corr. Area 1: 739.4
 Noise: 0.3

Peak table for sample 8 : fc4

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	180	21.31	179.1		58.65
3	259	276.72	1,619.5		65.94
4	267	42.78	242.8		66.69
5	301	70.79	356.9		69.78
6	321	31.24	147.7		71.36
7	338	27.63	123.8		72.77
8	367	34.11	140.8		75.06
9	388	37.60	147.0		76.69
10	443	23.82	81.4		80.15
11	483	16.62	52.1		82.44
12	510	9.71	28.8		83.89
13	526	9.76	28.1		84.68
14	10,380	75.00	10.9	Upper Marker	113.00

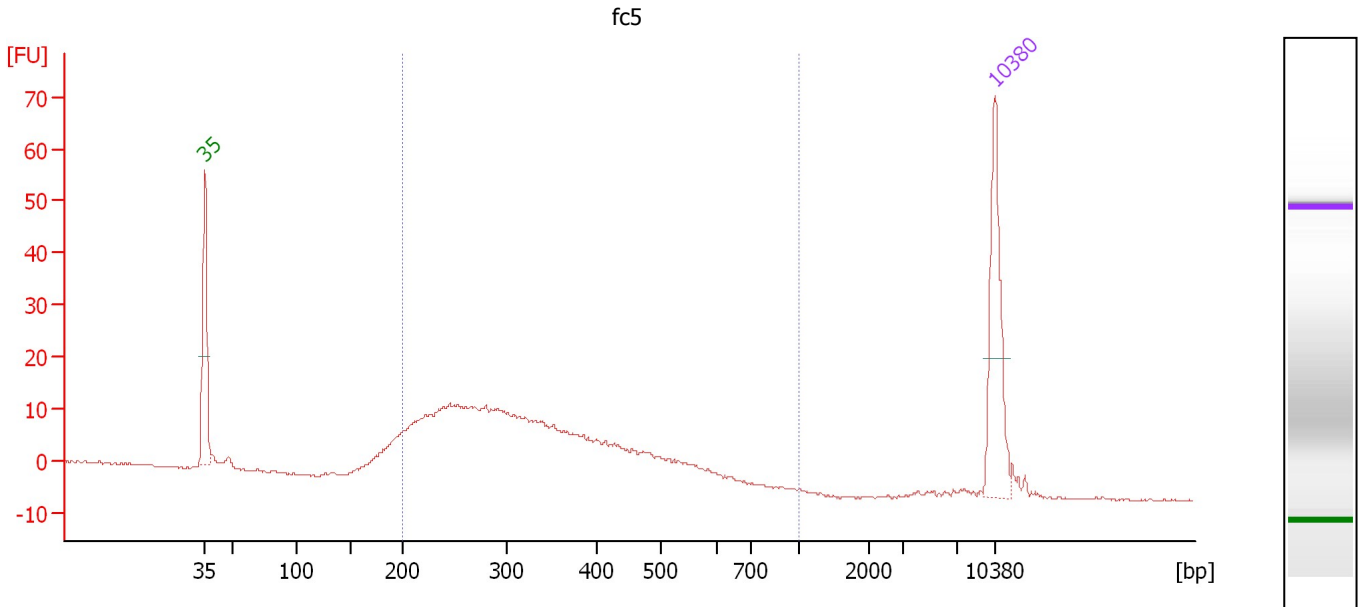
Region table for sample 8 : fc4

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	352	739.4	4,745.2	975.98	95	33.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
 Modified: 12/11/2015 4:31:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : fc5

Number of peaks found: 0 Corr. Area 1: 348.3
 Noise: 0.2

Peak table for sample 9 : fc5

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

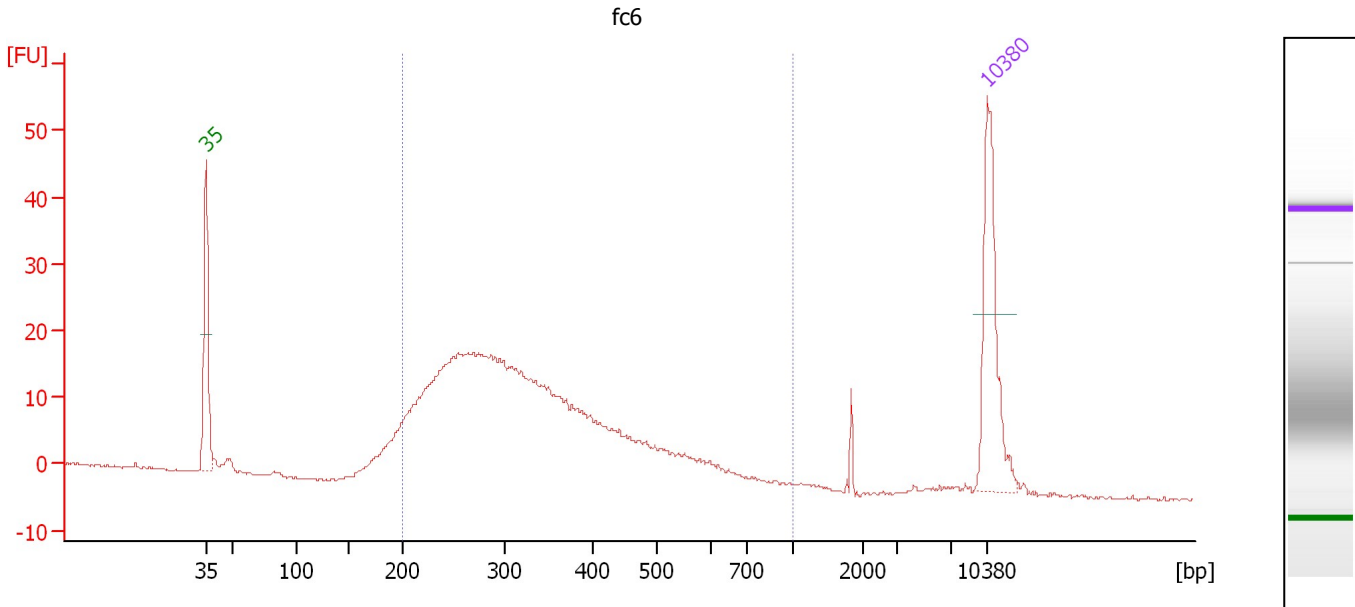
Region table for sample 9 : fc5

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	336	348.3	2,819.7	560.95	90	30.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
 Modified: 12/11/2015 4:31:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : fc6

Number of peaks found: 0 Corr. Area 1: 439.7
 Noise: 0.1

Peak table for sample 10 : fc6

Pea k	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

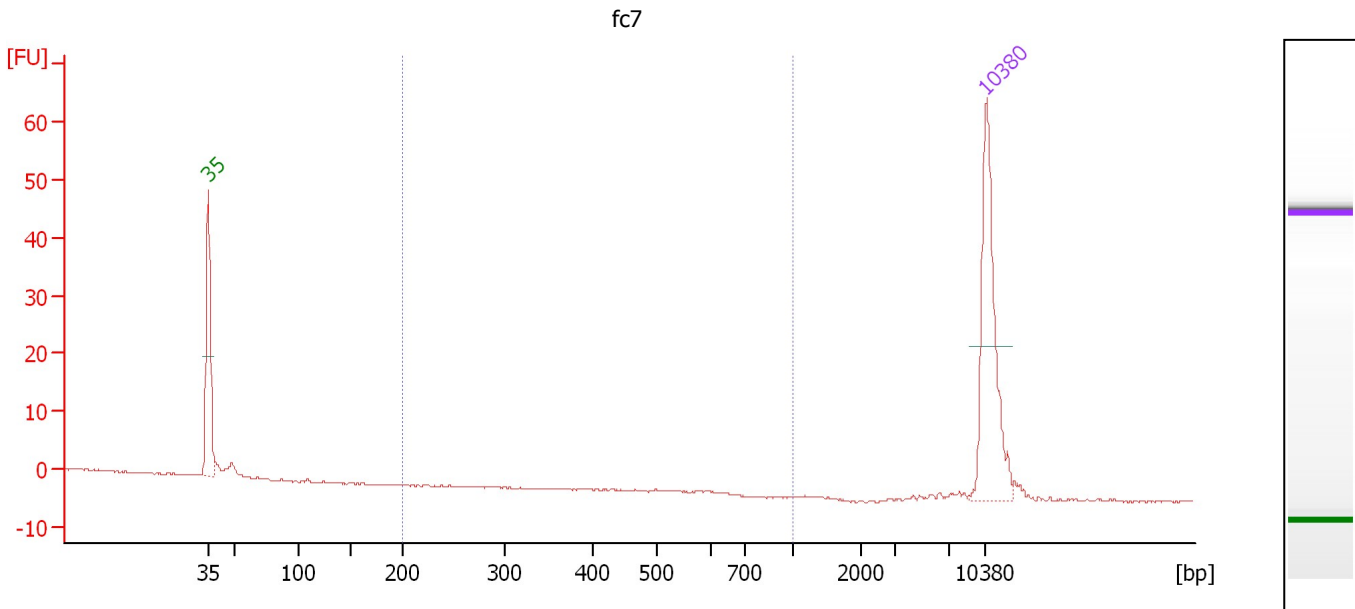
Region table for sample 10 : fc6

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	339	439.7	3,775.6	754.77	93	32.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
 Modified: 12/11/2015 4:31:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : fc7

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 11 : fc7

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

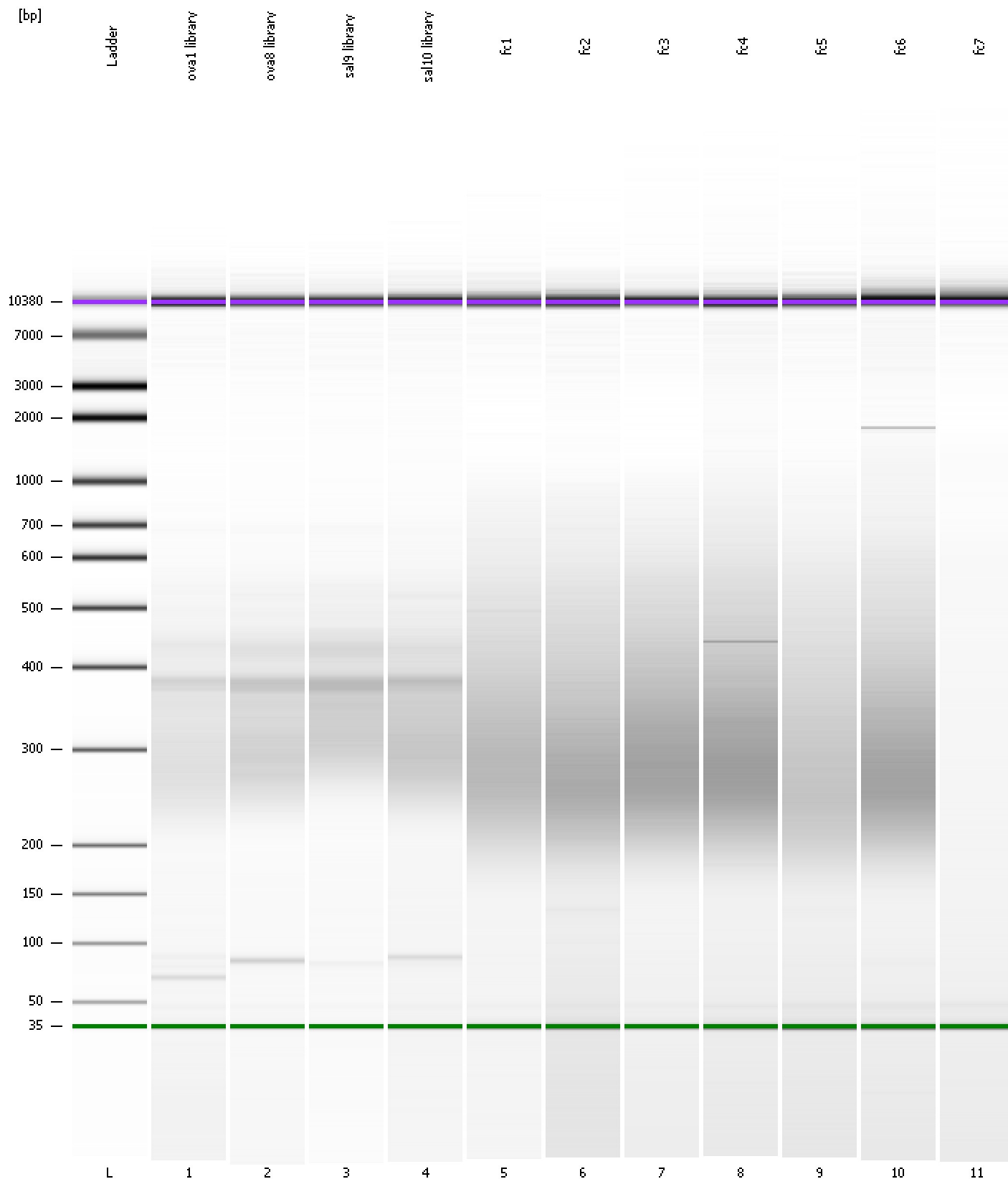
Region table for sample 11 : fc7

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:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
Modified: 12/11/2015 4:31:12 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad

Created: 12/11/2015 3:49:53 PM
 Modified: 12/11/2015 4:31:12 PM

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		12/11/2015 4:31:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-11\2015-12-11_002.xad)		Instrument	Run		12/11/2015 3:49:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/11/2015 3:49:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/11/2015 3:49:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/11/2015 3:49:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/11/2015 3:49:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/11/2015 3:49:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/11/2015 3:49:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1