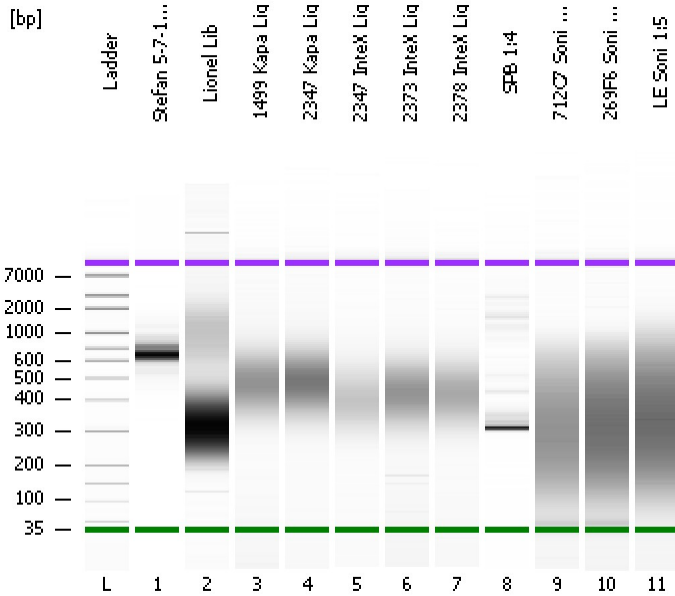


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
Modified: 5/21/2013 3:34:52 PM

Electrophoresis File Run Summary



Instrument Information:

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

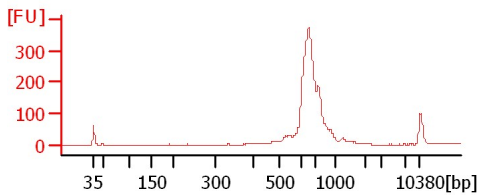
Assay Information:

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

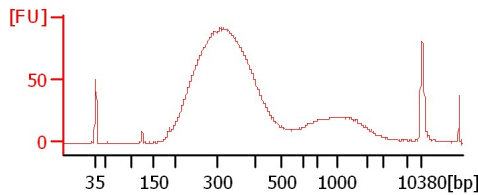
Chip Information:

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

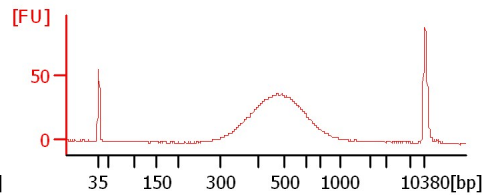
Stefan 5-7-13 B Lib 1:25



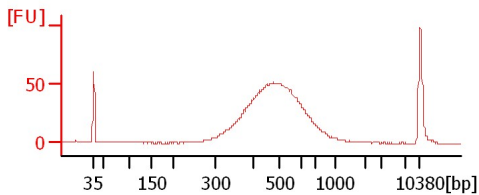
Lionel Lib



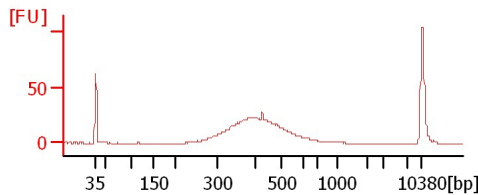
1499 Kapa Lig



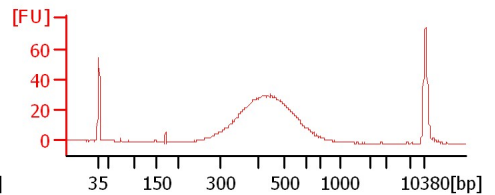
2347 Kapa Lig



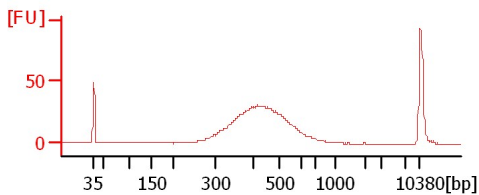
2347 InteX Lig



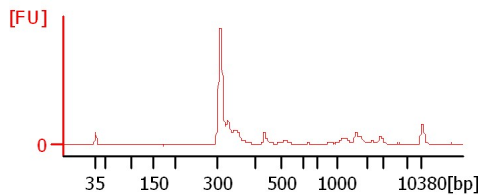
2373 InteX Lig



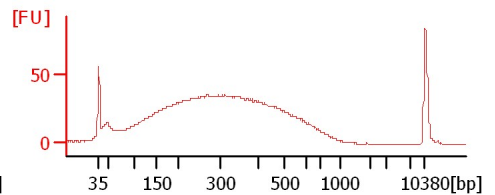
2378 InteX Lig



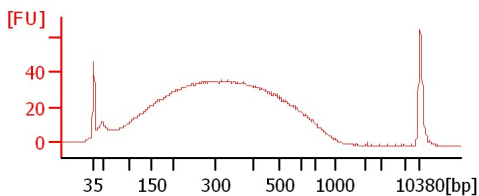
SPB 1:4



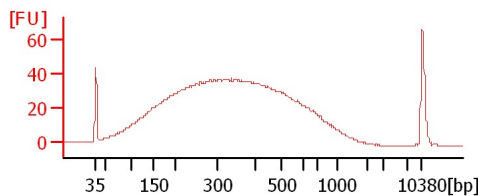
712C7 Soni 1:5



269F6 Soni 1:5



LE Soni 1:5



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
Modified: 5/21/2013 3:34:52 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Stefan 5-7-13 B Lib 1:25		<input type="checkbox"/>	✓			
Lionel Lib		<input type="checkbox"/>	✓			
1499 Kapa Lig		<input type="checkbox"/>	✓			
2347 Kapa Lig		<input type="checkbox"/>	✓			
2347 InteX Lig		<input type="checkbox"/>	✓			
2373 InteX Lig		<input type="checkbox"/>	✓			
2378 InteX Lig		<input type="checkbox"/>	✓			
SPB 1:4		<input type="checkbox"/>	✓			
712C7 Soni 1:5		<input type="checkbox"/>	✓			
269F6 Soni 1:5		<input type="checkbox"/>	✓			
LE Soni 1:5		<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\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
Modified: 5/21/2013 3:34:52 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

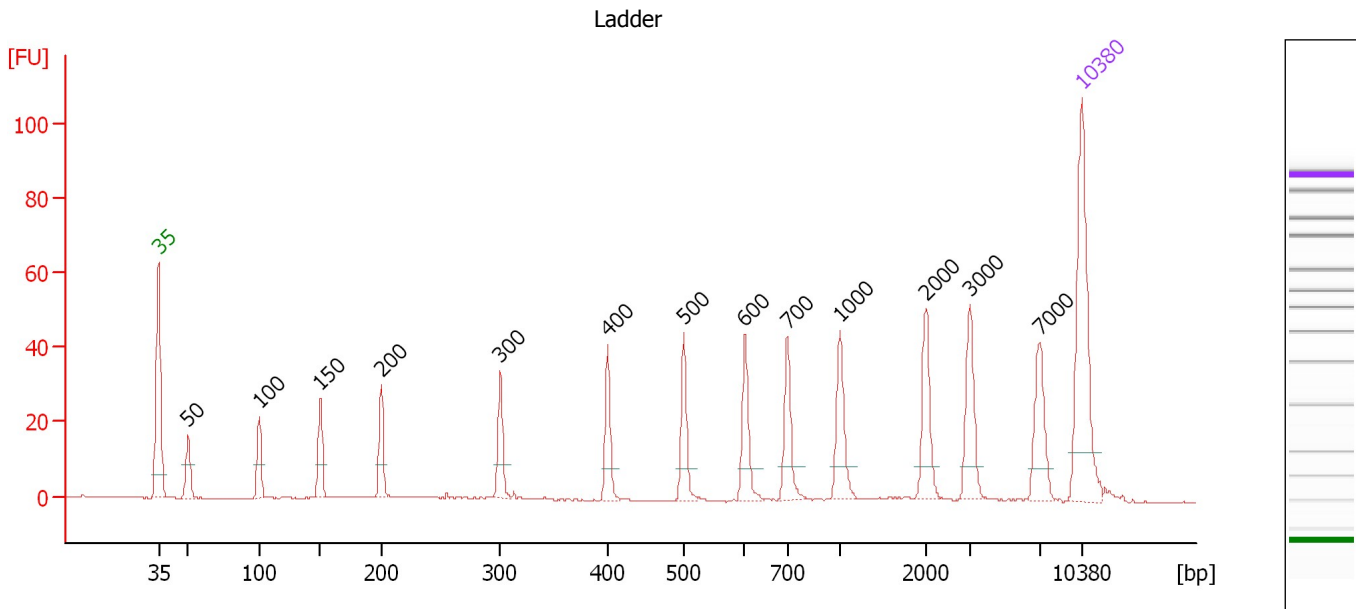
Ladder

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\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

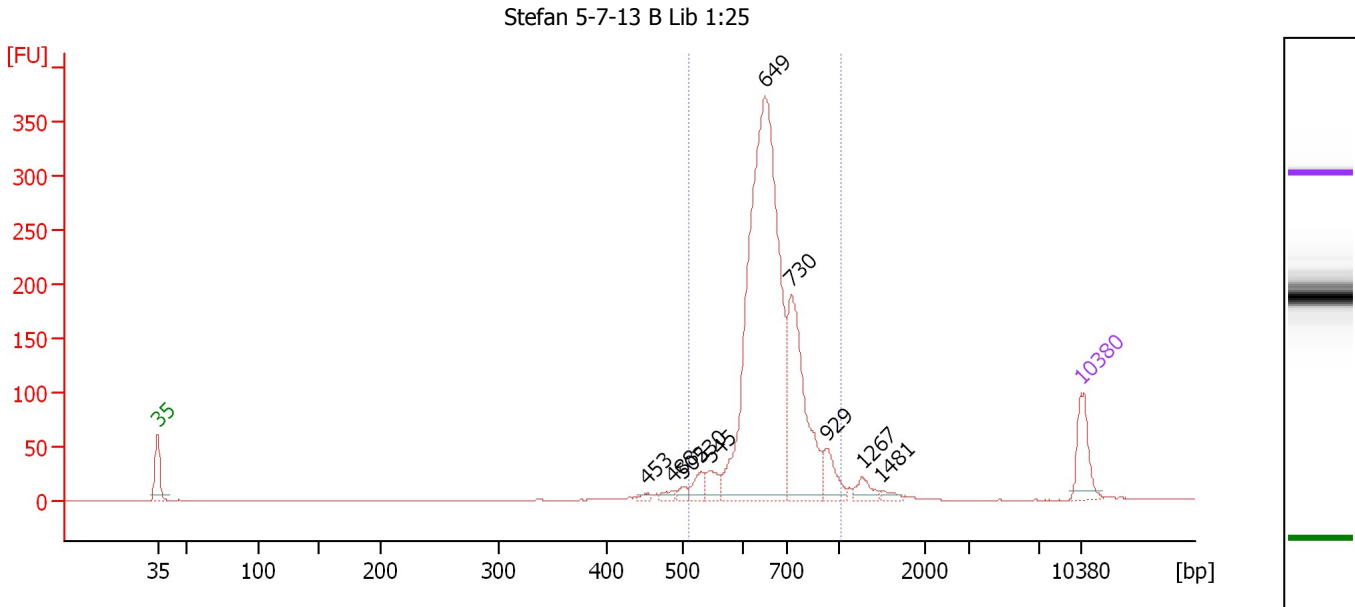
Peak table for Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Stefan 5-7-13 B Lib 1:25

Number of peaks found: 10 Corr. Area 1: 1,600.2
 Noise: 0.1

Peak table for sample 1 : Stefan 5-7-13 B Lib 1:25

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	453	7.83	26.2	
3	488	14.39	44.6	
4	502	15.68	47.4	
5	530	35.70	102.1	
6	545	44.69	124.3	
7	649	1,282.50	2,994.9	
8	730	374.77	778.0	
9	929	62.58	102.1	
10	1,267	29.18	34.9	
11	1,481	12.05	12.3	
12	10,380	75.00	10.9	Upper Marker

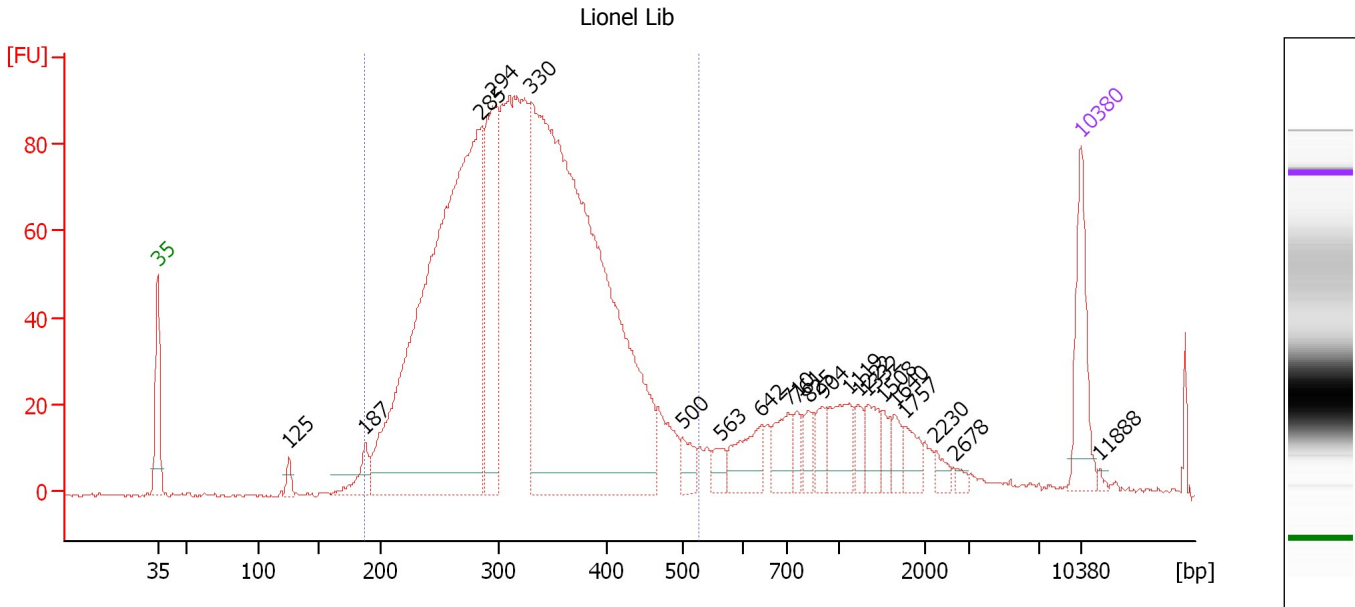
Region table for sample 1 : Stefan 5-7-13 B Lib 1:25

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
511	1,026	678	4,014.2	1,770.85	1,600.2	94	12.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Lionel Lib

Number of peaks found: 21 Corr. Area 1: 1,932.8
 Noise: 0.4

Peak table for sample 2 : Lionel Lib


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	15.11	182.7	
3	187	43.12	348.7	
4	285	1,163.60	6,192.3	
5	294	263.49	1,356.6	
6	330	1,377.85	6,331.8	
7	500	30.80	93.3	
8	563	20.01	53.9	
9	642	60.02	141.7	
10	710	45.85	97.8	
11	761	18.89	37.6	
12	825	23.92	43.9	
13	904	25.34	42.5	
14	1,119	56.45	76.4	
15	1,222	19.52	24.2	
16	1,332	31.52	35.9	
17	1,508	17.82	17.9	
18	1,640	16.35	15.1	
19	1,757	23.44	20.2	
20	2,230	11.29	7.7	
21	2,678	6.07	3.4	
22	10,380	75.00	10.9	Upper Marker
23	11,888	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...

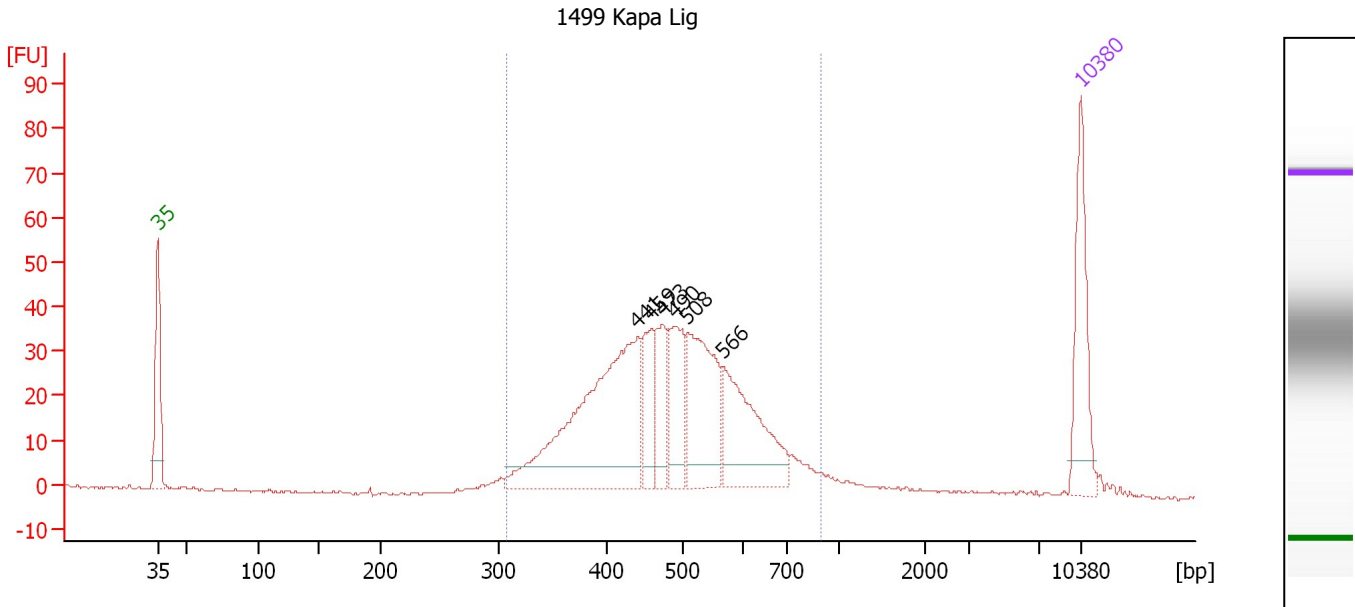
... Region table for sample 2 : Lionel Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
187	526	324	16,977.9	3,428.41	1,932.8	84	20.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1499 Kapa Lig

Number of peaks found: 6 Corr. Area 1: 631.7
 Noise: 0.2

Peak table for sample 3 : 1499 Kapa Lig

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	441	325.39	1,118.7	
3	459	58.68	193.5	
4	473	56.68	181.5	
5	490	82.86	256.1	
6	508	141.70	422.6	
7	566	134.11	358.9	
8	10,380	75.00	10.9	Upper Marker

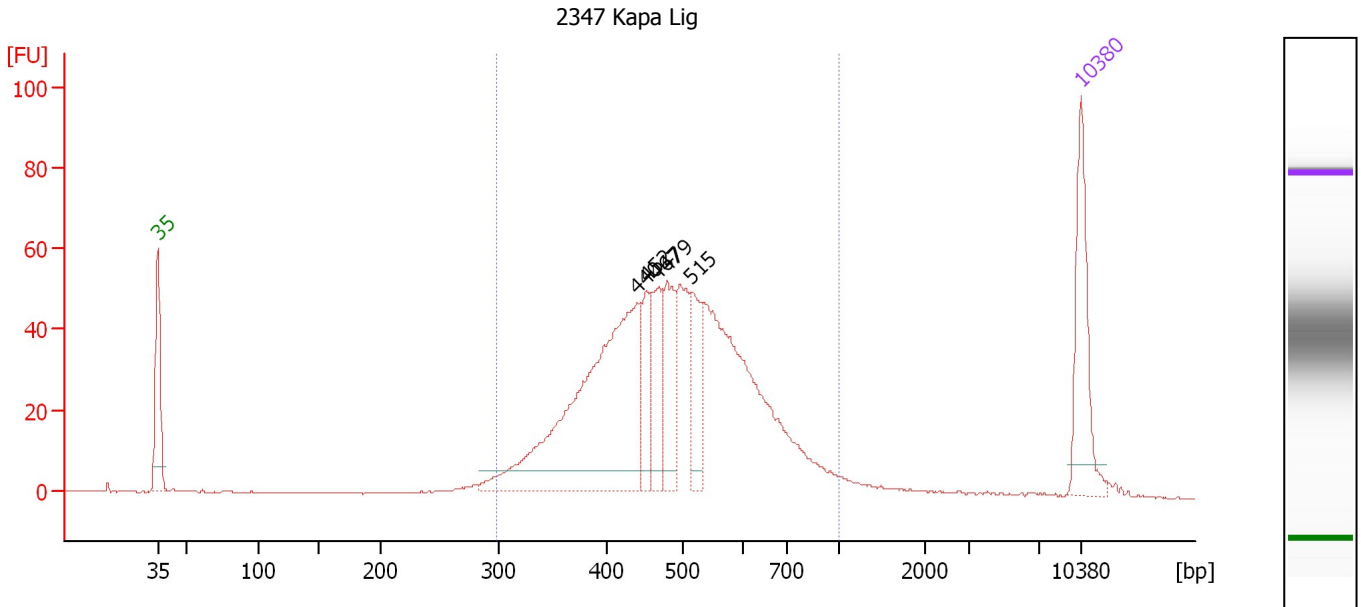
Region table for sample 3 : 1499 Kapa Lig

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
307	895	491	2,886.2	885.98	631.7	94	20.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 2347 Kapa Lig

Number of peaks found: 5 Corr. Area 1: 912.1
 Noise: 0.2

Peak table for sample 4 : 2347 Kapa Lig

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	440	387.57	1,335.9	
3	452	48.14	161.4	
4	467	64.00	207.8	
5	479	75.55	239.0	
6	515	62.15	182.8	
7	10,380	75.00	10.9	Upper Marker

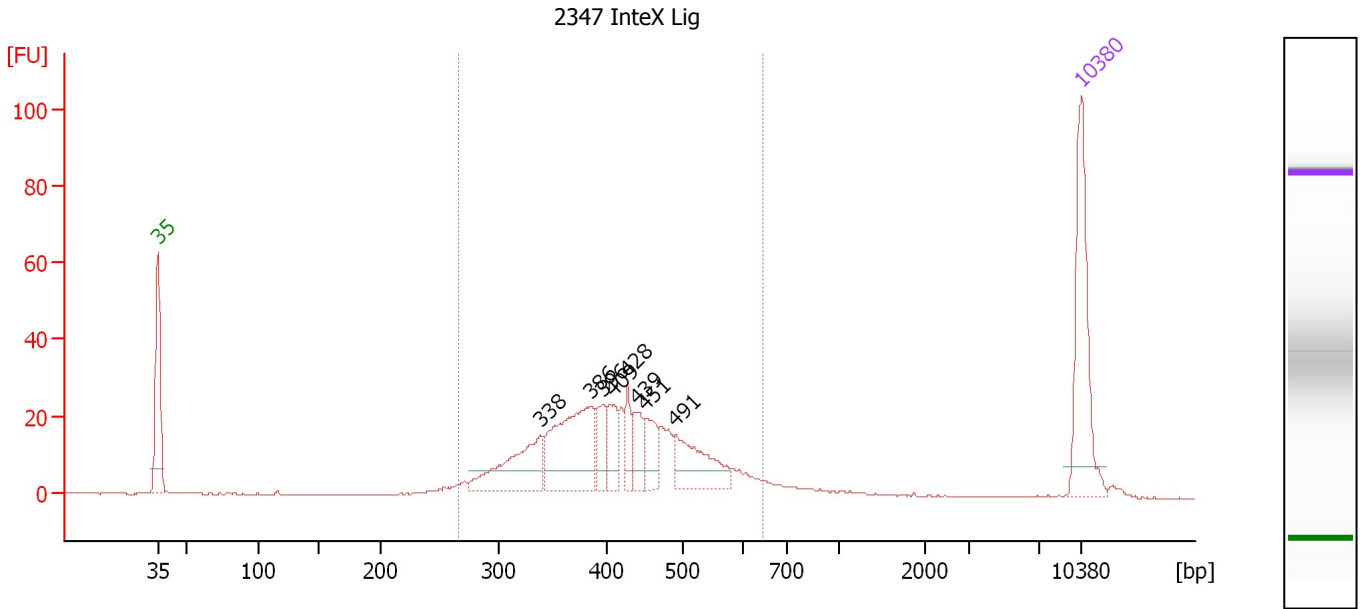
Region table for sample 4 : 2347 Kapa Lig

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
297	1,000	499	3,509.8	1,084.12	912.1	95	23.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 2347 InteX Lig

Number of peaks found: 8 Corr. Area 1: 418.7
 Noise: 0.1

Peak table for sample 5 : 2347 InteX Lig

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	338	72.89	326.4	
3	386	107.64	422.8	
4	396	24.27	92.8	
5	409	25.51	94.5	
6	428	21.02	74.4	
7	439	22.47	77.5	
8	451	27.51	92.4	
9	491	54.16	167.1	
10	10,380	75.00	10.9	Upper Marker

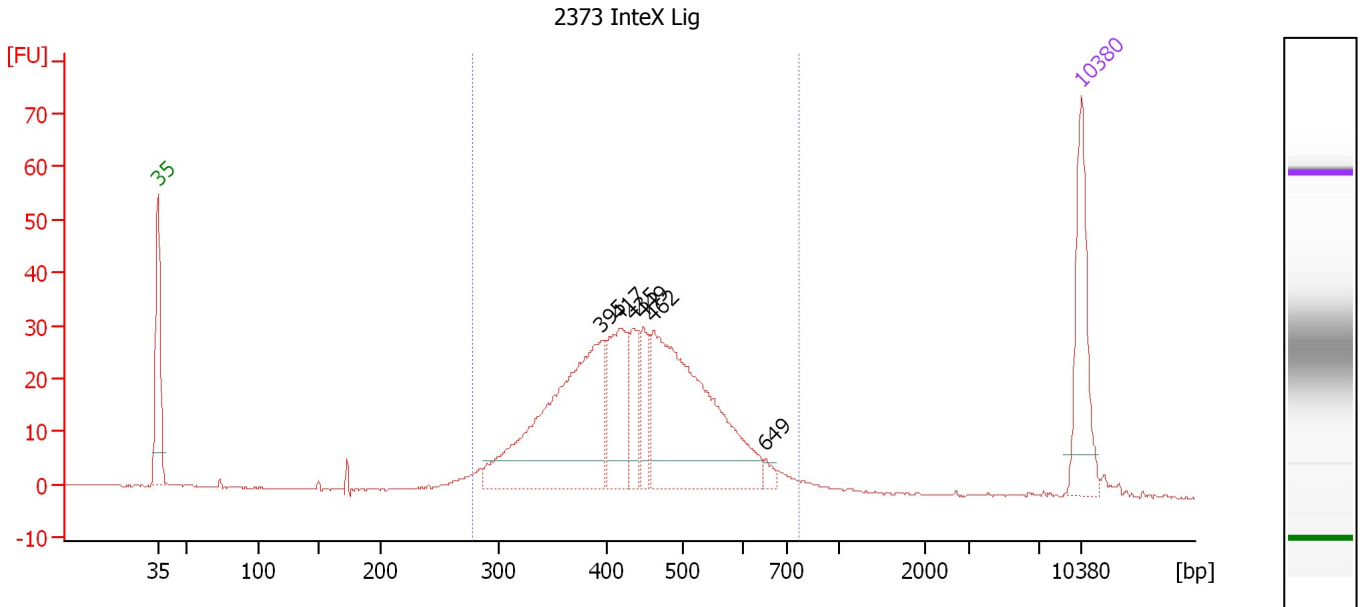
Region table for sample 5 : 2347 InteX Lig

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
266	646	419	1,788.8	470.38	418.7	91	19.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 2373 InteX Lig

Number of peaks found: 6 Corr. Area 1: 534.9
 Noise: 0.1

Peak table for sample 6 : 2373 InteX Lig

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	395	291.27	1,117.2	
3	417	93.57	339.8	
4	435	48.63	169.3	
5	449	41.74	140.9	
6	462	294.57	965.8	
7	649	7.73	18.0	
8	10,380	75.00	10.9	Upper Marker

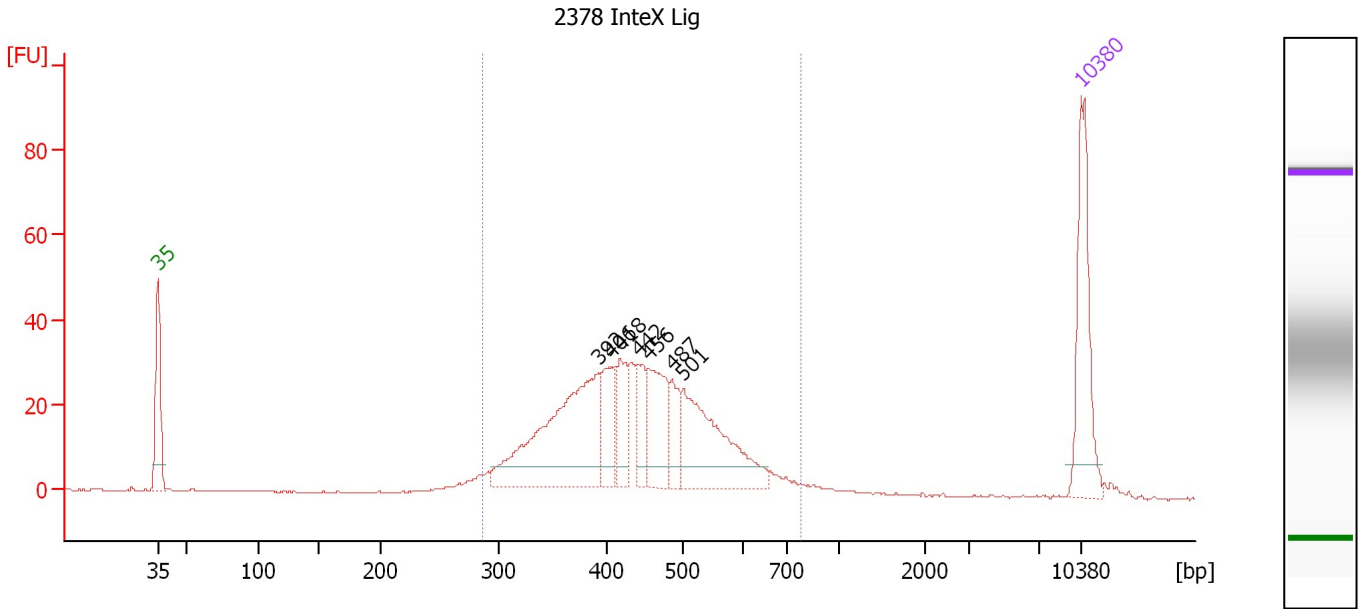
Region table for sample 6 : 2373 InteX Lig

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
277	771	444	3,014.5	839.03	534.9	96	19.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 2378 InteX Lig

Number of peaks found: 7 Corr. Area 1: 538.7
 Noise: 0.1

Peak table for sample 7 : 2378 InteX Lig

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	392	198.31	765.7	
3	406	52.05	194.5	
4	418	42.32	153.3	
5	442	36.08	123.8	
6	456	66.68	221.6	
7	487	27.49	85.6	
8	501	124.42	376.0	
9	10,380	75.00	10.9	Upper Marker

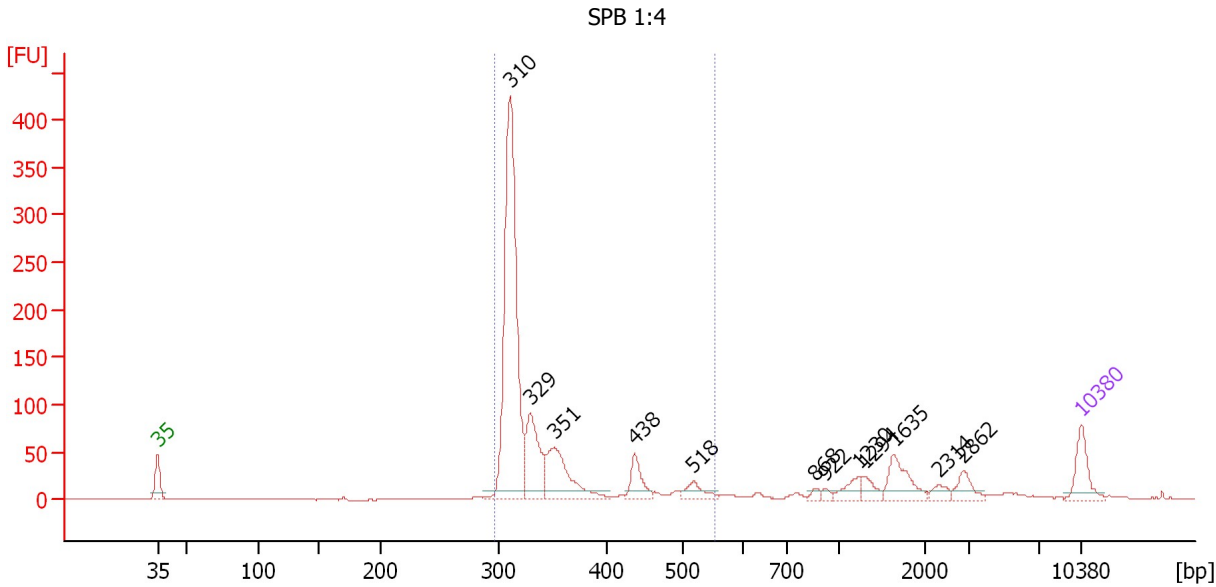
Region table for sample 7 : 2378 InteX Lig

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
285	779	444	2,350.1	654.57	538.7	95	20.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : SPB 1:4

Height Threshold [FU] : 10

Overall Results for sample 8 : SPB 1:4

Number of peaks found: 12 Corr. Area 1: 1,053.7
 Noise: 0.2

Peak table for sample 8 : SPB 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	310	1,009.77	4,934.3	
3	329	226.29	1,041.2	
4	351	235.34	1,015.7	
5	438	81.95	283.8	
6	518	51.84	151.8	
7	868	12.50	21.8	
8	922	12.61	20.7	
9	1,230	39.89	49.1	
10	1,294	31.87	37.3	
11	1,635	92.72	85.9	
12	2,314	23.17	15.2	
13	2,862	40.98	21.7	
14	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : SPB 1:4

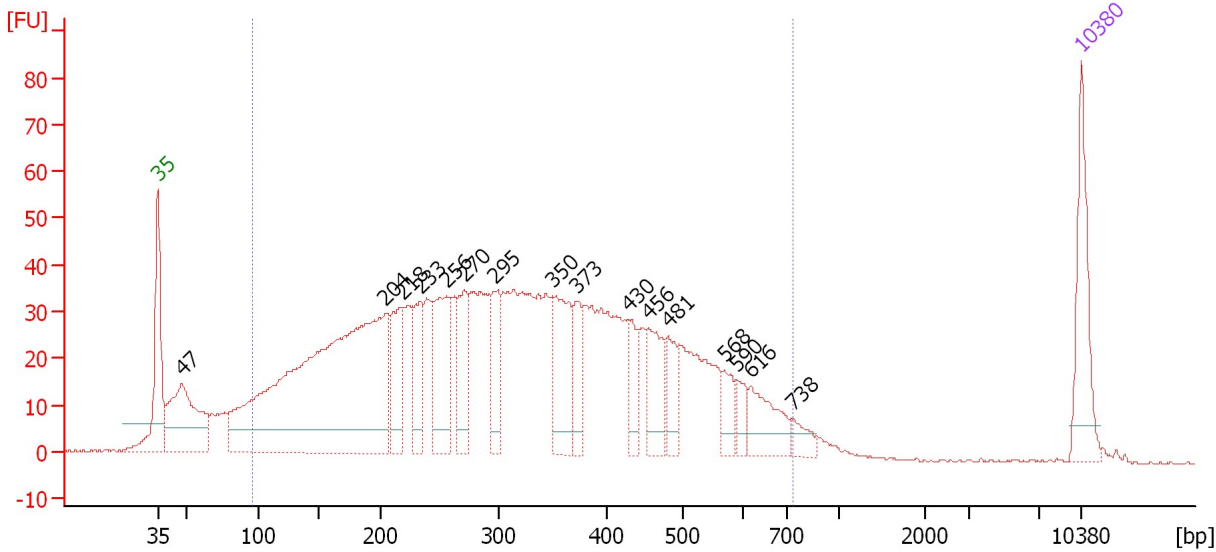
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
296	552	342	7,451.2	1,639.22	1,053.7	75	16.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...

712C7 Soni 1:5



Overall Results for sample 9 : 712C7 Soni 1:5

Number of peaks found: 16 Corr. Area 1: 1,533.9
 Noise: 0.2

Peak table for sample 9 : 712C7 Soni 1:5

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	172.77	5,555.8	
3	204	746.41	5,550.6	
4	218	86.36	599.7	
5	233	77.31	502.4	
6	256	123.44	731.5	
7	270	84.83	475.8	
8	295	71.73	367.8	
9	350	109.48	474.5	
10	373	49.10	199.6	
11	430	36.49	128.5	
12	456	69.05	229.6	
13	481	42.23	133.0	
14	568	29.71	79.2	
15	590	20.56	52.8	
16	616	57.67	141.9	
17	738	19.31	39.6	
18	10,380	75.00	10.9	Upper Marker

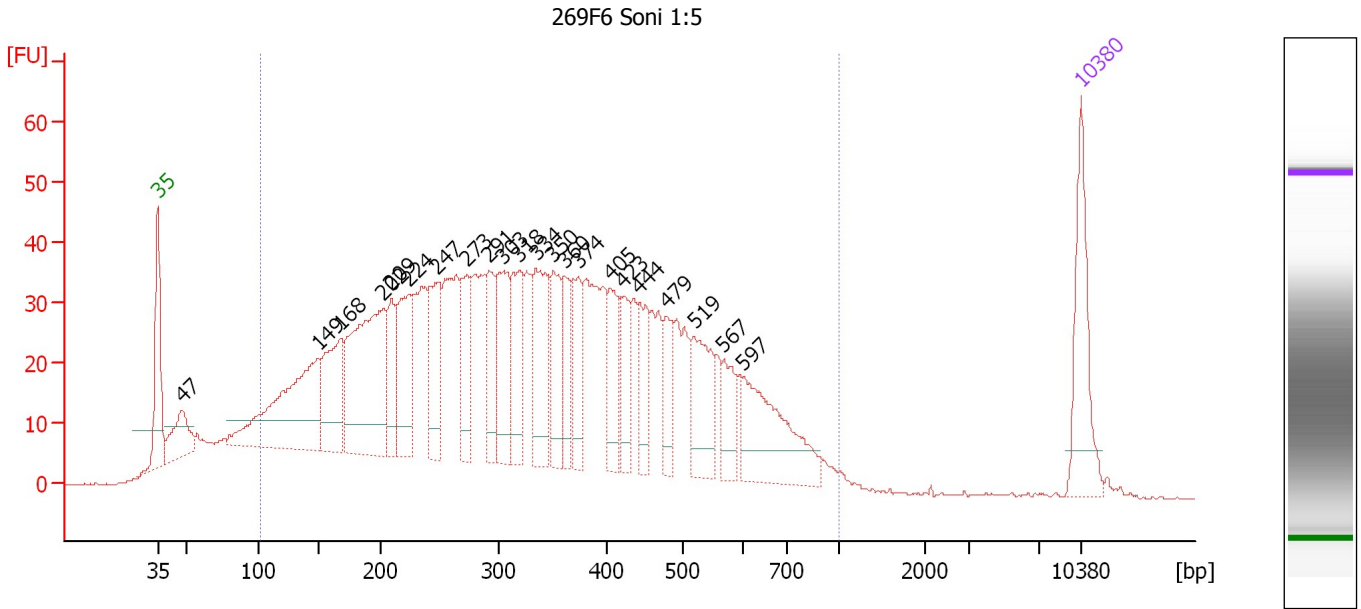
Region table for sample 9 : 712C7 Soni 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
95	737	328	16,782.2	2,680.88	1,533.9	90	41.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 269F6 Soni 1:5

Number of peaks found: 22 Corr. Area 1: 1,589.4
 Noise: 0.1

Peak table for sample 10 : 269F6 Soni 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	63.81	2,035.7	
3	149	239.84	2,438.0	
4	168	116.30	1,051.5	
5	202	251.03	1,884.2	
6	209	60.68	440.3	
7	224	107.79	729.7	
8	247	87.57	537.2	
9	273	62.70	348.0	
10	291	66.57	346.0	
11	303	97.52	487.0	
12	318	81.13	386.3	
13	334	109.33	495.5	
14	350	71.24	308.0	
15	360	52.70	221.7	
16	374	50.93	206.6	
17	405	62.80	235.2	
18	423	46.80	167.8	
19	444	50.45	172.3	
20	479	40.29	127.5	
21	519	82.18	240.0	
22	567	40.81	109.0	
23	597	120.94	306.8	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...

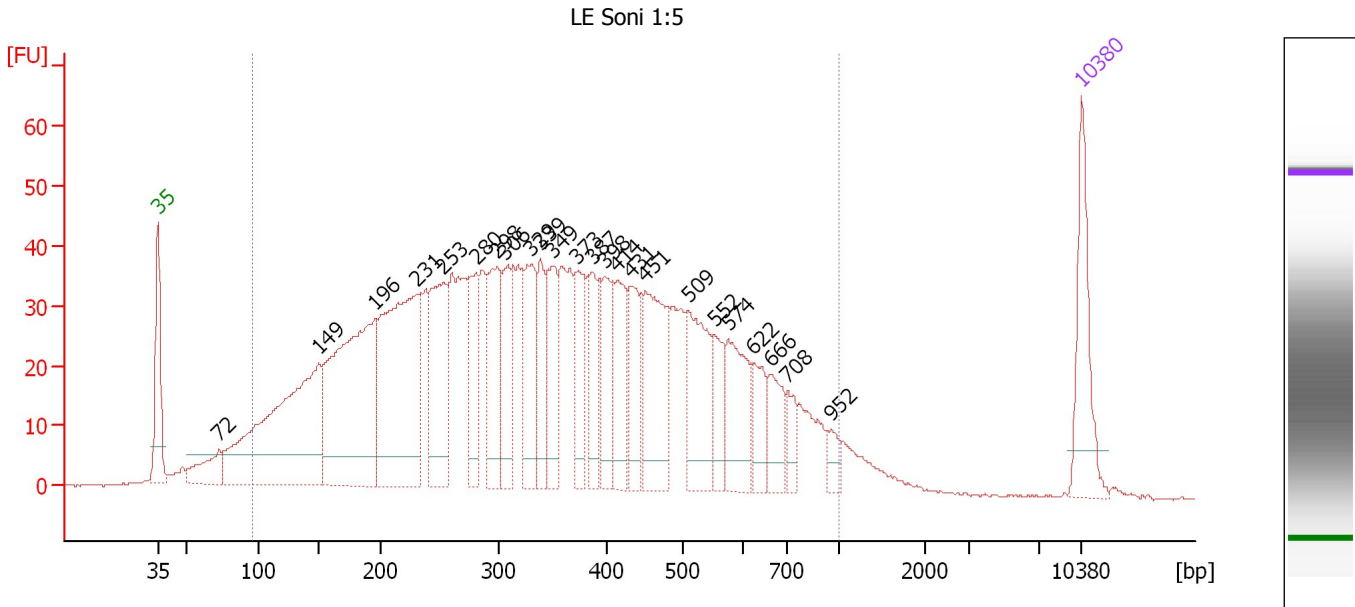
... Region table for sample 10 : 269F6 Soni 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
102	1,000	349	18,677.8	3,148.51	1,589.4	92	44.3	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : LE Soni 1:5

Number of peaks found: 24 Corr. Area 1: 1,696.4
 Noise: 0.2

Peak table for sample 11 : LE Soni 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	72	54.41	1,137.8	
3	149	410.63	4,165.2	
4	196	368.50	2,852.9	
5	231	338.35	2,224.1	
6	253	154.96	929.4	
7	280	79.19	428.5	
8	298	111.35	566.1	
9	306	88.00	436.3	
10	329	99.79	459.7	
11	339	66.71	298.4	
12	349	89.64	389.1	
13	373	69.56	282.5	
14	387	62.45	244.7	
15	398	68.31	259.8	
16	414	86.48	316.5	
17	431	75.28	264.4	
18	451	137.31	460.8	
19	509	117.75	350.6	
20	552	44.86	123.2	
21	574	89.70	236.6	
22	622	43.92	107.0	
23	666	45.02	102.5	
24	708	23.20	49.6	
25	952	15.93	25.4	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
Modified: 5/21/2013 3:34:52 PM

Electropherogram Summary Continued ...

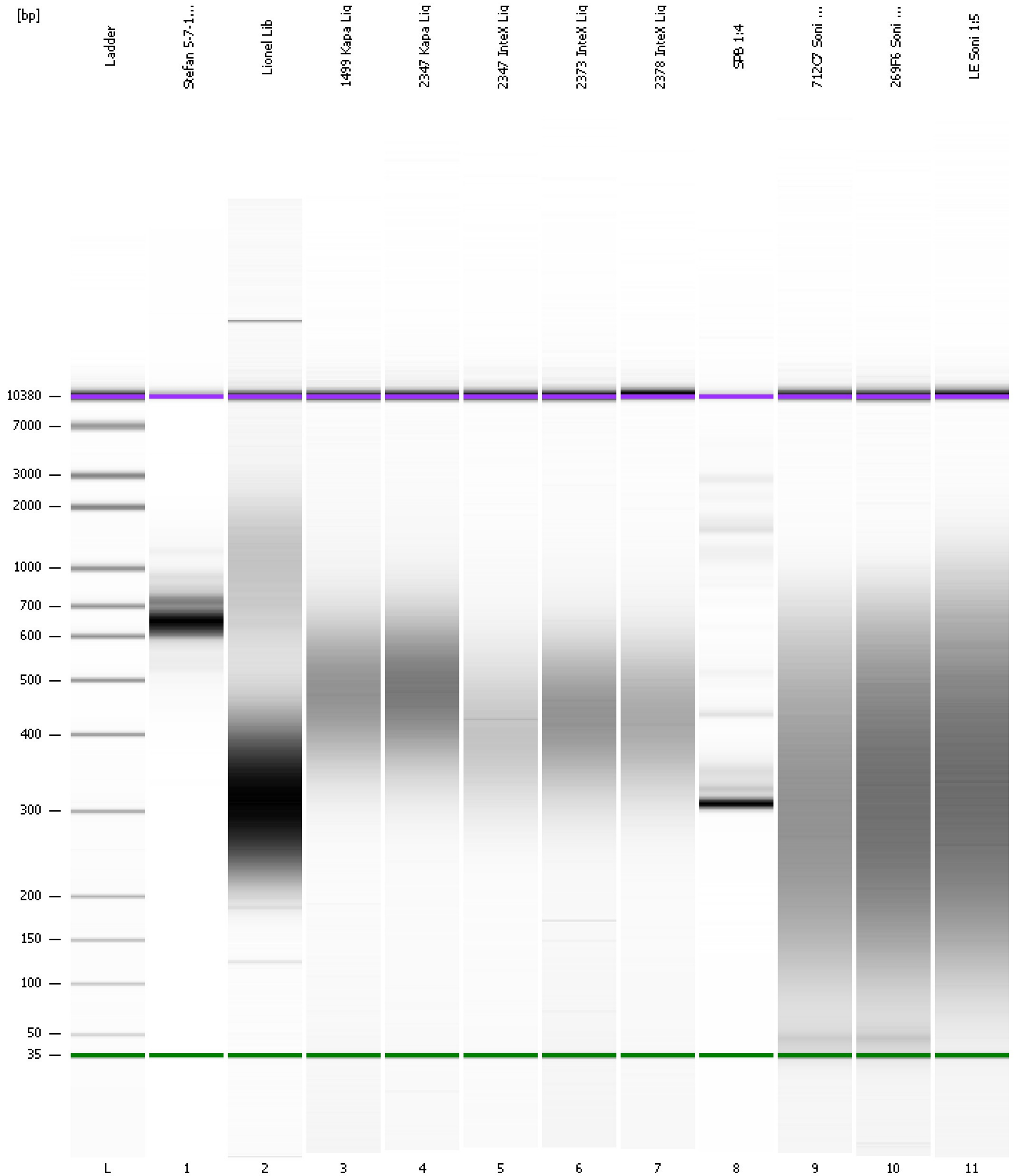
... Region table for sample 11 : LE Soni 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
96	1,000	367	20,050.2	3,445.41	1,696.4	94	46.5	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
Modified: 5/21/2013 3:34:52 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad

Created: 5/21/2013 2:50:27 PM
 Modified: 5/21/2013 3:34:52 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		5/21/2013 3:31:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad)		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1