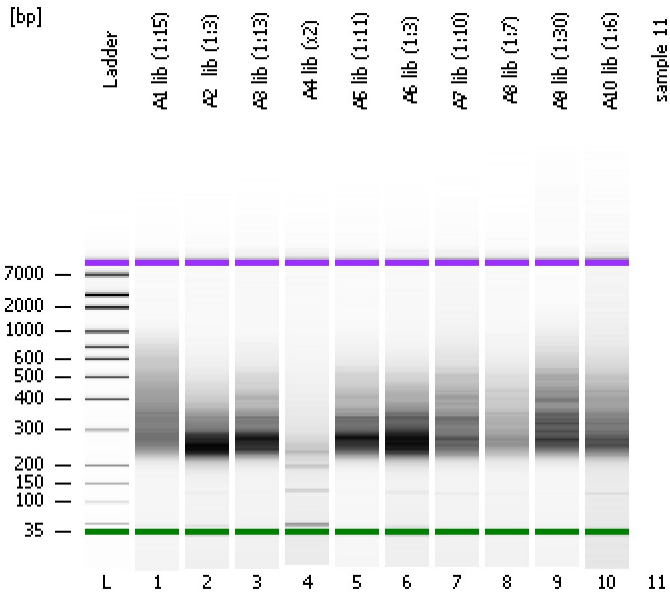


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

Created: 7/2/2015 9:00:29 AM
Modified: 7/2/2015 9:55:07 AM

Electrophoresis File Run Summary



Instrument Information:

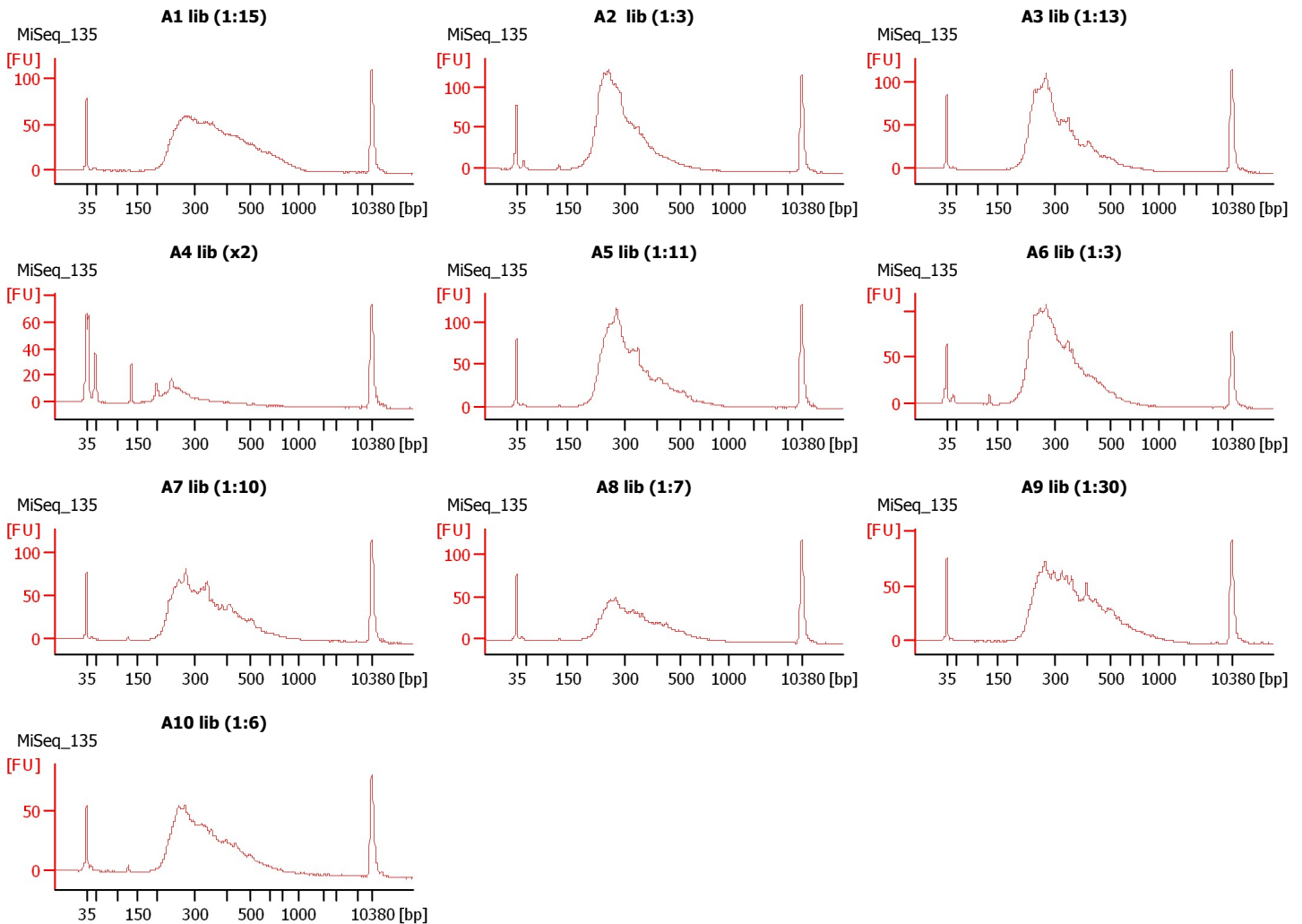
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

Created: 7/2/2015 9:00:29 AM
 Modified: 7/2/2015 9:55:07 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A1 lib (1:15)	MiSeq_135	<input type="checkbox"/>	✓			
A2 lib (1:3)	MiSeq_135	<input type="checkbox"/>	✓			
A3 lib (1:13)	MiSeq_135	<input type="checkbox"/>	✓			
A4 lib (x2)	MiSeq_135	<input type="checkbox"/>	✓			
A5 lib (1:11)	MiSeq_135	<input type="checkbox"/>	✓			
A6 lib (1:3)	MiSeq_135	<input type="checkbox"/>	✓			
A7 lib (1:10)	MiSeq_135	<input type="checkbox"/>	✓			
A8 lib (1:7)	MiSeq_135	<input type="checkbox"/>	✓			
A9 lib (1:30)	MiSeq_135	<input type="checkbox"/>	✓			
A10 lib (1:6)	MiSeq_135	<input type="checkbox"/>	✓			
sample 11		<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\2015-07-02\2015-07-02_001.xad

Created: 7/2/2015 9:00:29 AM
 Modified: 7/2/2015 9:55:07 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

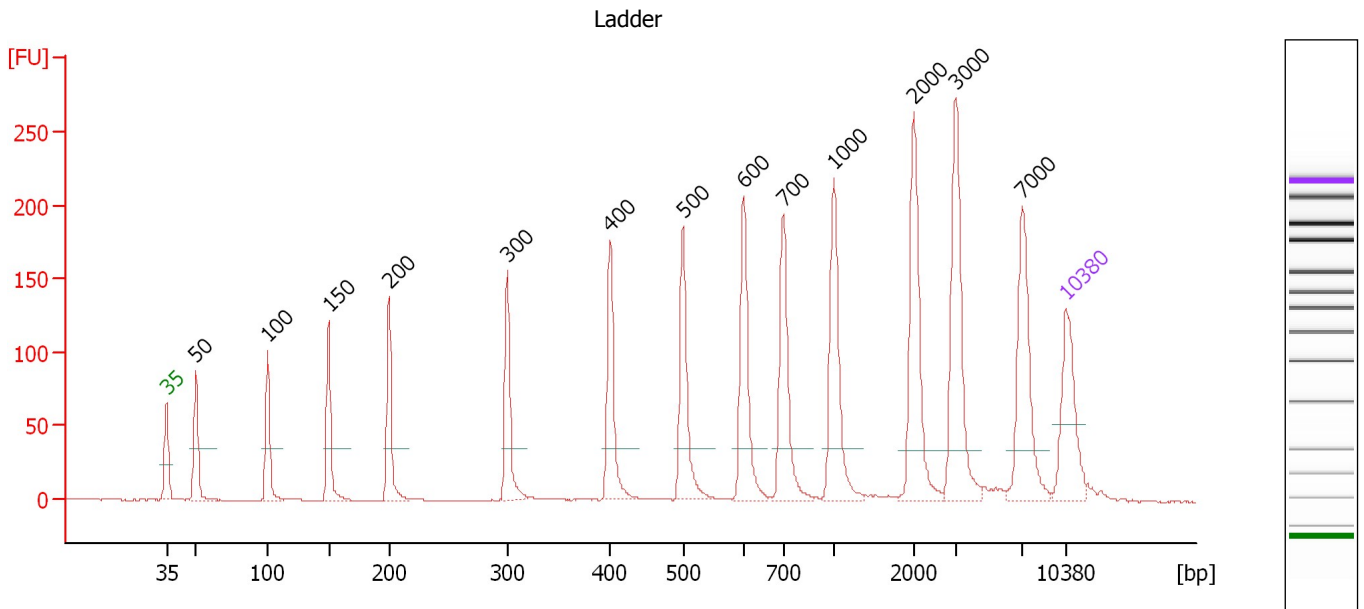
Ladder

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:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

Created: 7/2/2015 9:00:29 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

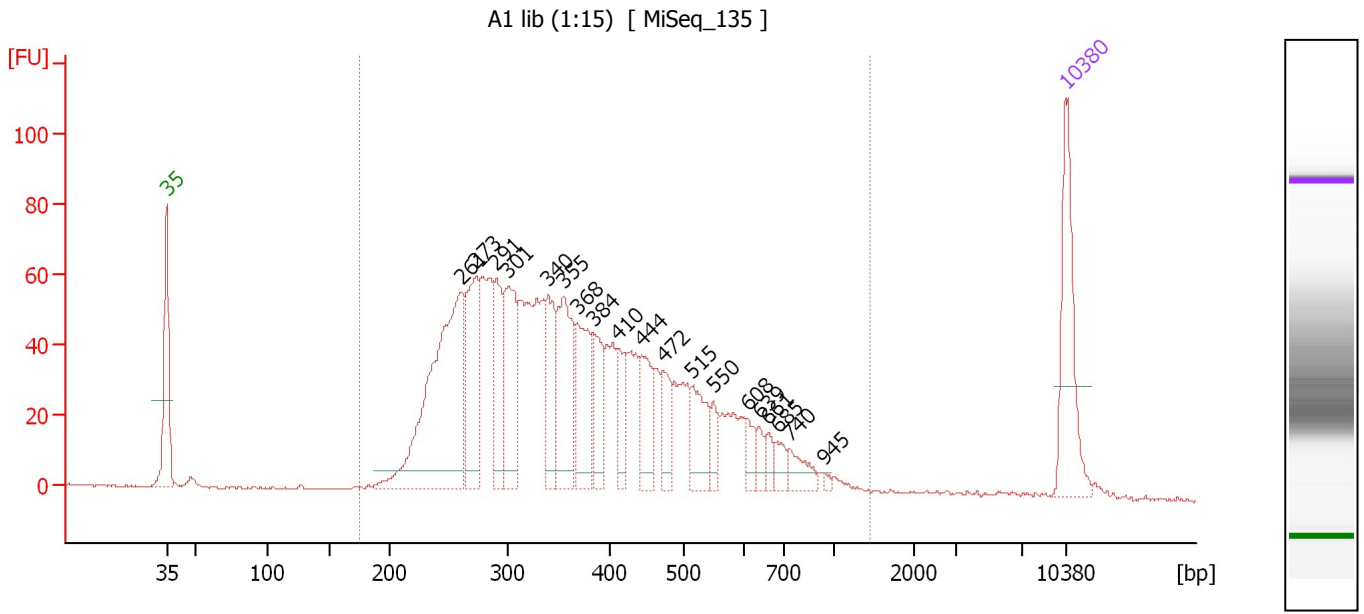
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.28
3	100	150.00	2,272.7	Ladder Peak	50.89
4	150	150.00	1,515.2	Ladder Peak	55.63
5	200	150.00	1,136.4	Ladder Peak	60.33
6	300	150.00	757.6	Ladder Peak	69.54
7	400	150.00	568.2	Ladder Peak	77.57
8	500	150.00	454.5	Ladder Peak	83.22
9	600	150.00	378.8	Ladder Peak	87.96
10	700	150.00	324.7	Ladder Peak	91.02
11	1,000	150.00	227.3	Ladder Peak	94.94
12	2,000	150.00	113.6	Ladder Peak	101.19
13	3,000	150.00	75.8	Ladder Peak	104.47
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:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

Created: 7/2/2015 9:00:29 AM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : A1 lib (1:15)

Number of peaks found: 19 Corr. Area 1: 1,709.2
 Noise: 0.2

Peak table for sample 1 : A1 lib (1:15)

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	261	310.23	1,798.6		65.98
3	273	120.83	670.9		67.04
4	291	73.51	382.8		68.71
5	301	104.01	524.3		69.59
6	340	67.32	300.2		72.73
7	355	107.66	459.9		73.93
8	368	84.41	347.6		74.99
9	384	48.69	192.1		76.29
10	410	33.52	123.8		78.14
11	444	50.27	171.7		80.03
12	472	32.14	103.1		81.65
13	515	48.62	143.1		83.92
14	550	17.24	47.5		85.58
15	608	16.67	41.5		88.22
16	639	11.53	27.4		89.14
17	661	10.49	24.0		89.84
18	685	13.62	30.1		90.58
19	740	21.09	43.2		91.55
20	945	2.87	4.6		94.23
21	10,380	75.00	10.9	Upper Marker	113.00

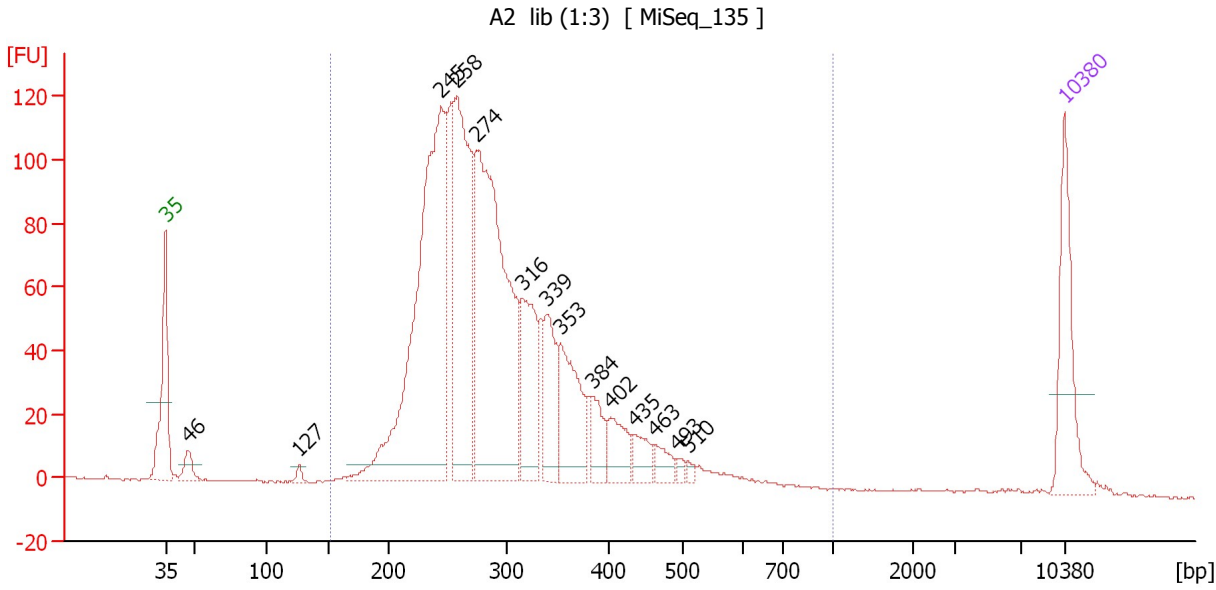
Region table for sample 1 : A1 lib (1:15)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
175	392	1,450	1,709.2	8,034.2	98	37.9	1,785.17

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

Created: 7/2/2015 9:00:29 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : A2 lib (1:3)

Number of peaks found: 14 Corr. Area 1: 1,960.9
 Noise: 0.3

Peak table for sample 2 : A2 lib (1:3)

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	46	22.39	730.7		44.74
3	127	6.53	78.1		53.42
4	245	554.21	3,425.3		64.49
5	258	297.31	1,746.8		65.66
6	274	473.09	2,614.4		67.16
7	316	119.56	573.3		70.82
8	339	77.16	344.5		72.70
9	353	110.80	475.9		73.78
10	384	34.94	138.0		76.26
11	402	39.37	148.5		77.67
12	435	23.53	81.9		79.55
13	463	18.37	60.1		81.14
14	493	5.35	16.5		82.83
15	510	4.29	12.8		83.68
16	10,380	75.00	10.9	Upper Marker	113.00

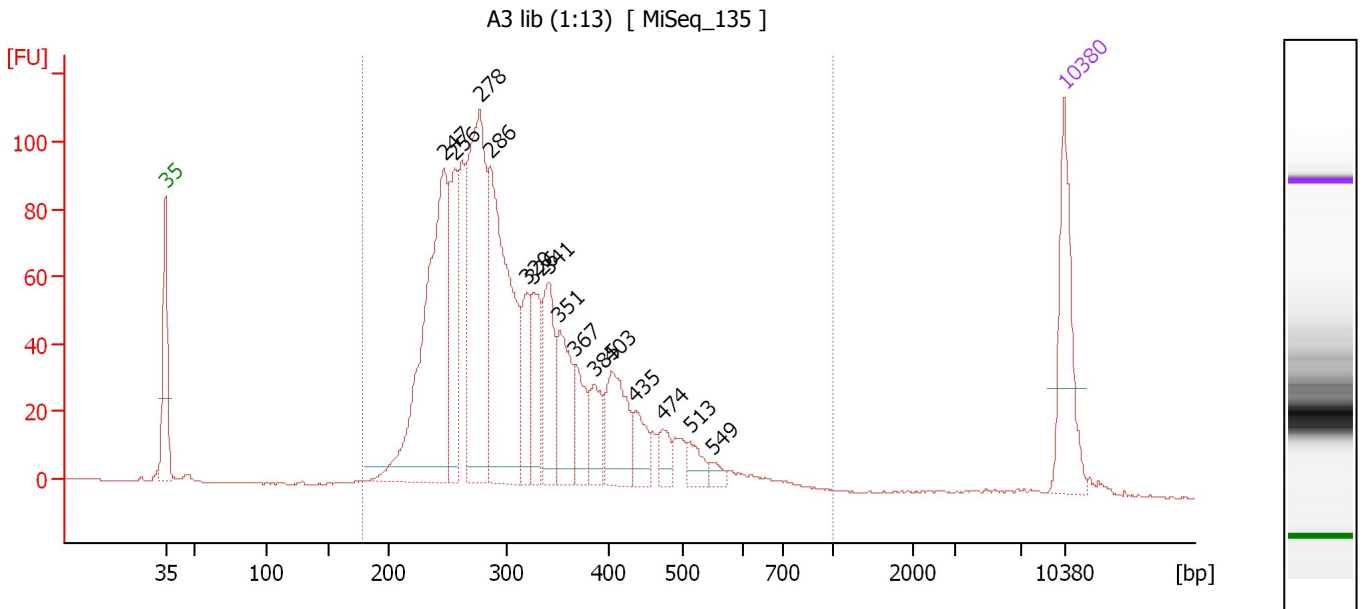
Region table for sample 2 : A2 lib (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
153	302	1,000	1,960.9	10,868.1	98	27.4	2,014.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : A3 lib (1:13)

Number of peaks found: 15 Corr. Area 1: 1,751.1
 Noise: 0.1

Peak table for sample 3 : A3 lib (1:13)

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	247	363.97	2,232.5		64.66
3	256	114.06	674.1		65.52
4	278	287.23	1,567.5		67.48
5	286	291.76	1,543.1		68.29
6	320	58.84	278.4		71.16
7	326	62.70	291.3		71.64
8	341	87.61	389.2		72.84
9	351	76.06	328.1		73.65
10	367	45.77	188.8		74.94
11	385	39.75	156.4		76.37
12	403	78.24	294.5		77.71
13	435	33.68	117.4		79.53
14	474	18.33	58.6		81.73
15	513	20.14	59.5		83.83
16	549	8.77	24.2		85.55
17	10,380	75.00	10.9	Upper Marker	113.00

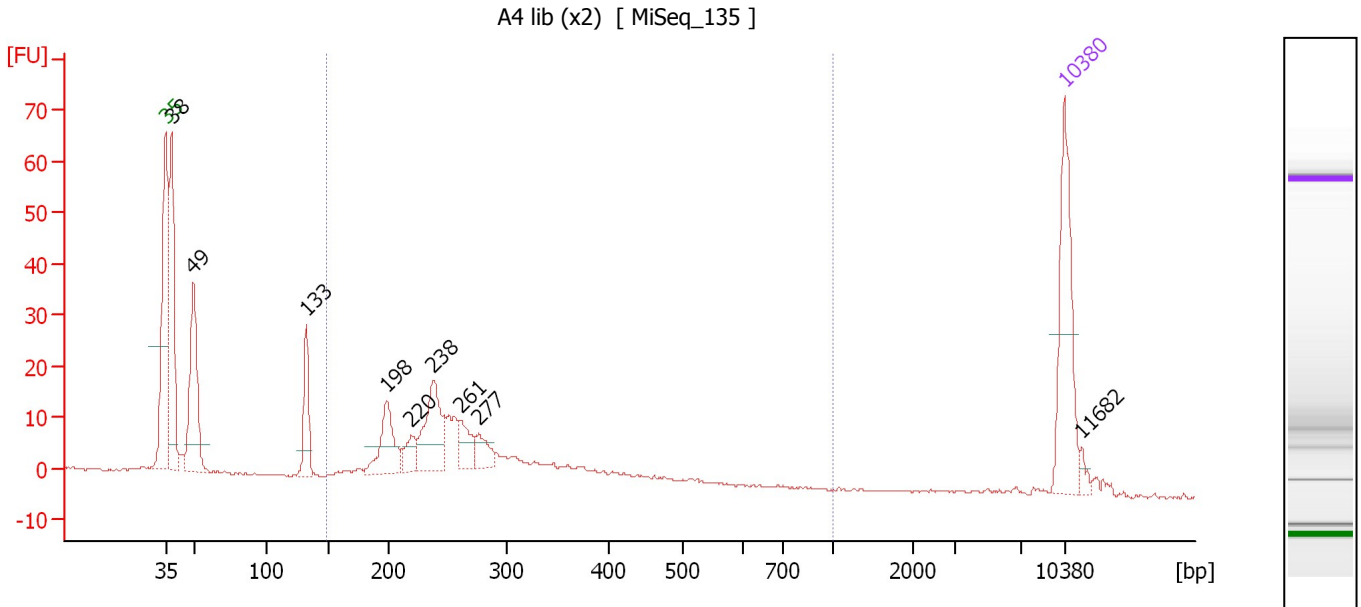
Region table for sample 3 : A3 lib (1:13)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
178	323	1,000	1,751.1	9,141.6	98	28.7	1,792.99

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : A4 lib (x2)

Number of peaks found: 9 Corr. Area 1: 204.0
 Noise: 0.2

Peak table for sample 4 : A4 lib (x2)

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	38	161.51	6,411.6		43.48
3	49	124.61	3,833.4		45.17
4	133	50.07	572.4		53.98
5	198	54.75	417.9		60.19
6	220	20.61	142.0		62.16
7	238	72.27	459.7		63.85
8	261	25.33	147.0		65.96
9	277	20.30	111.1		67.41
10	10,380	75.00	10.9	Upper Marker	113.00
11	11,682	0.00	0.0		114.30

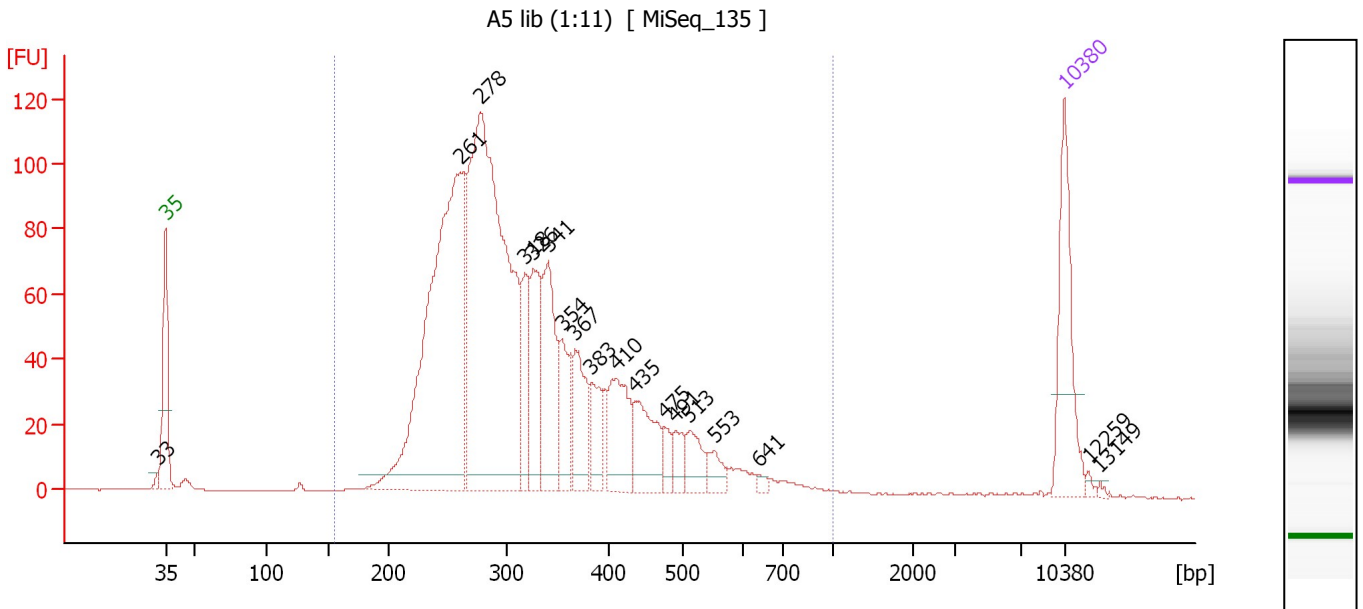
Region table for sample 4 : A4 lib (x2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
149	272	1,000	204.0	2,048.3	54	25.3	342.77

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

Created: 7/2/2015 9:00:29 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : A5 lib (1:11)

Number of peaks found: 18 Corr. Area 1: 1,908.4
 Noise: 0.1

Peak table for sample 5 : A5 lib (1:11)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.41
2	35	125.00	5,411.3	Lower Marker	43.00
3	261	511.97	2,971.2		65.95
4	278	601.04	3,279.5		67.49
5	318	64.56	307.6		70.99
6	326	87.39	406.1		71.63
7	341	106.47	473.3		72.82
8	354	57.00	244.1		73.85
9	367	67.54	279.1		74.89
10	383	36.95	146.3		76.17
11	410	75.55	279.0		78.15
12	435	60.88	212.2		79.53
13	475	15.79	50.4		81.80
14	491	18.70	57.7		82.69
15	513	28.16	83.2		83.83
16	553	16.86	46.2		85.75
17	641	4.08	9.6		89.21
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,259	0.00	0.0		114.88
20	13,149	0.00	0.0		115.76

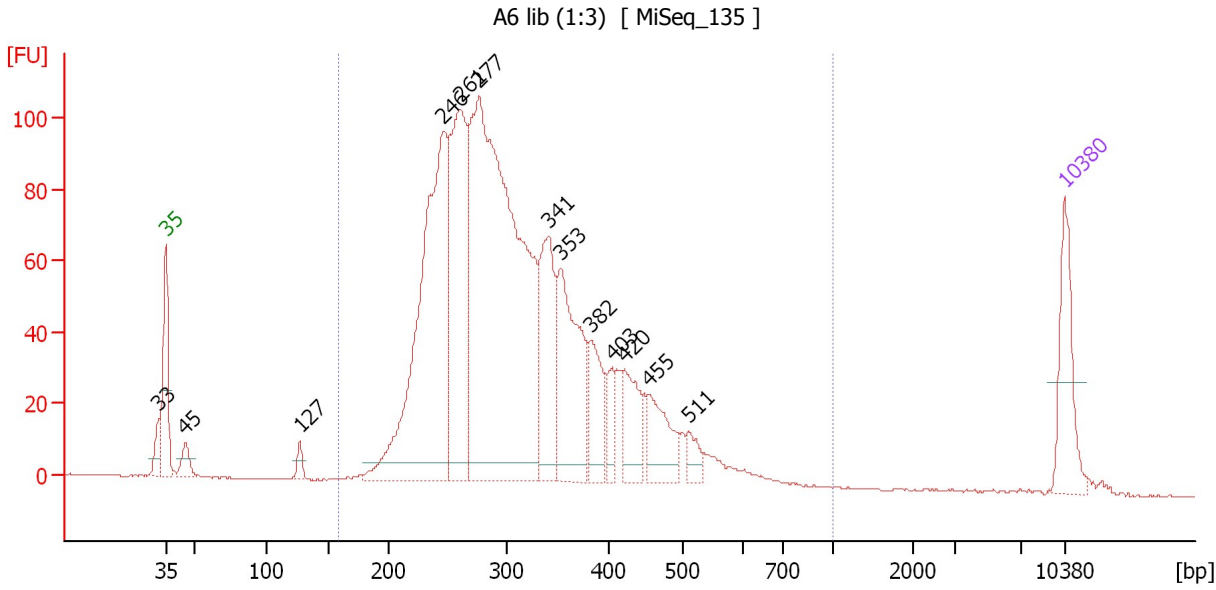
Region table for sample 5 : A5 lib (1:11)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
155	332	1,000	1,908.4	9,350.6	98	30.4	1,865.55

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

Created: 7/2/2015 9:00:29 AM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : A6 lib (1:3)

Number of peaks found: 13 Corr. Area 1: 1,979.9
 Noise: 0.2

Peak table for sample 6 : A6 lib (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.50
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	32.03	1,074.8		44.54
4	127	16.55	197.4		53.46
5	246	632.52	3,888.7		64.61
6	261	344.69	2,000.7		65.95
7	277	1,027.10	5,613.0		67.45
8	341	174.83	777.1		72.82
9	353	223.30	959.3		73.77
10	382	85.16	337.4		76.16
11	403	39.47	148.3		77.75
12	420	77.32	278.9		78.70
13	455	75.73	252.1		80.69
14	511	24.73	73.4		83.73
15	10,380	75.00	10.9	Upper Marker	113.00

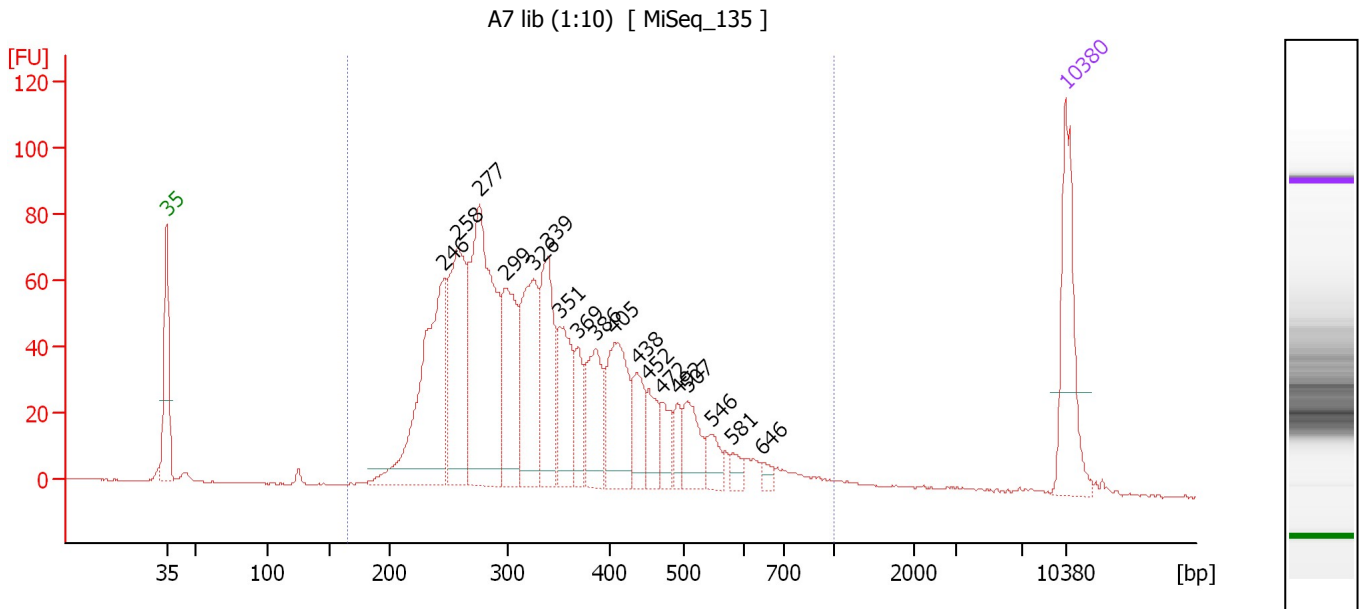
Region table for sample 6 : A6 lib (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
159	320	1,000	1,979.9	14,495.8	97	26.8	2,827.33

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

Created: 7/2/2015 9:00:29 AM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : A7 lib (1:10)

Number of peaks found: 18 Corr. Area 1: 1,648.0
 Noise: 0.2

Peak table for sample 7 : A7 lib (1:10)

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	246	235.13	1,445.3		64.61
3	258	175.27	1,029.1		65.68
4	277	285.43	1,562.9		67.40
5	299	113.96	578.1		69.42
6	326	131.64	612.5		71.60
7	339	114.28	511.0		72.66
8	351	79.60	343.8		73.62
9	369	38.76	159.4		75.04
10	386	72.39	284.5		76.41
11	405	97.19	363.2		77.87
12	438	40.45	140.0		79.70
13	452	33.70	113.0		80.51
14	472	25.11	80.7		81.62
15	492	19.42	59.8		82.78
16	507	42.87	128.2		83.54
17	546	20.53	56.9		85.42
18	581	10.66	27.8		87.09
19	646	7.56	17.7		89.36
20	10,380	75.00	10.9	Upper Marker	113.00

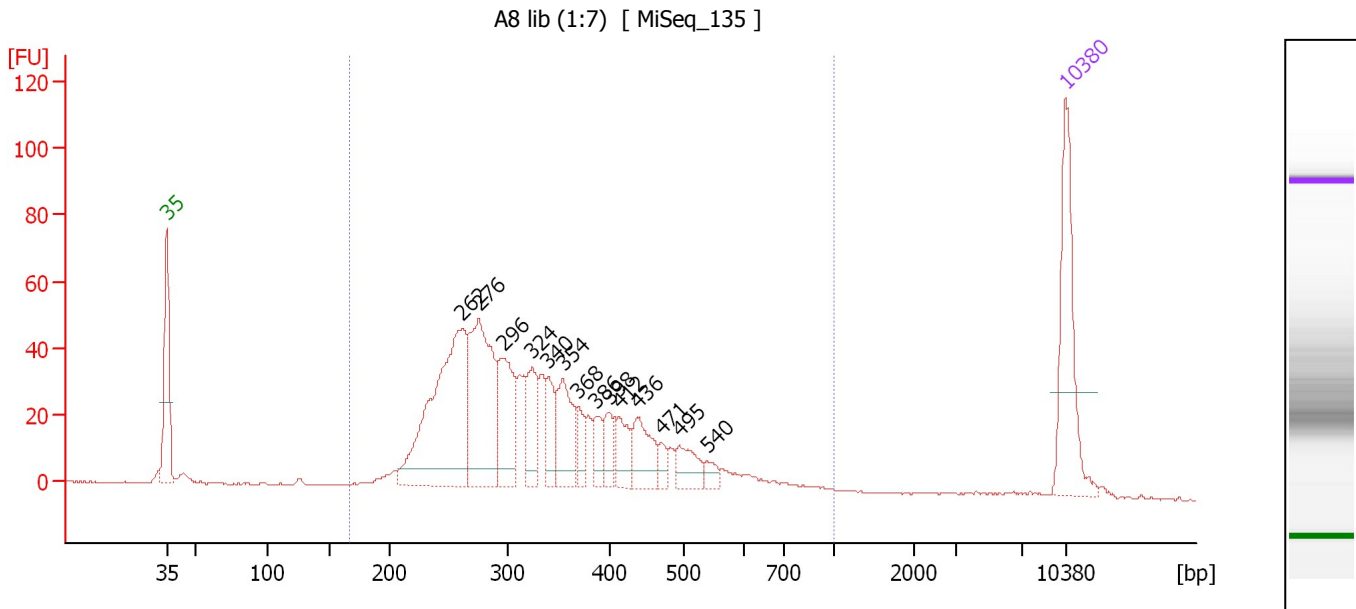
Region table for sample 7 : A7 lib (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
166	354	1,000	1,648.0	7,771.9	97	32.6	1,620.12

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : A8 lib (1:7)

Number of peaks found: 14 Corr. Area 1: 958.9
 Noise: 0.2

Peak table for sample 8 : A8 lib (1:7)

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	262	241.48	1,398.1		66.01
3	276	156.76	860.5		67.33
4	296	77.87	398.0		69.21
5	324	43.95	205.3		71.50
6	340	34.23	152.7		72.72
7	354	54.43	232.9		73.89
8	368	18.93	77.9		75.00
9	386	19.30	75.8		76.43
10	398	23.34	88.8		77.44
11	412	27.74	102.0		78.25
12	436	42.10	146.2		79.63
13	471	10.31	33.2		81.56
14	495	26.23	80.3		82.93
15	540	8.96	25.1		85.11
16	10,380	75.00	10.9	Upper Marker	113.00

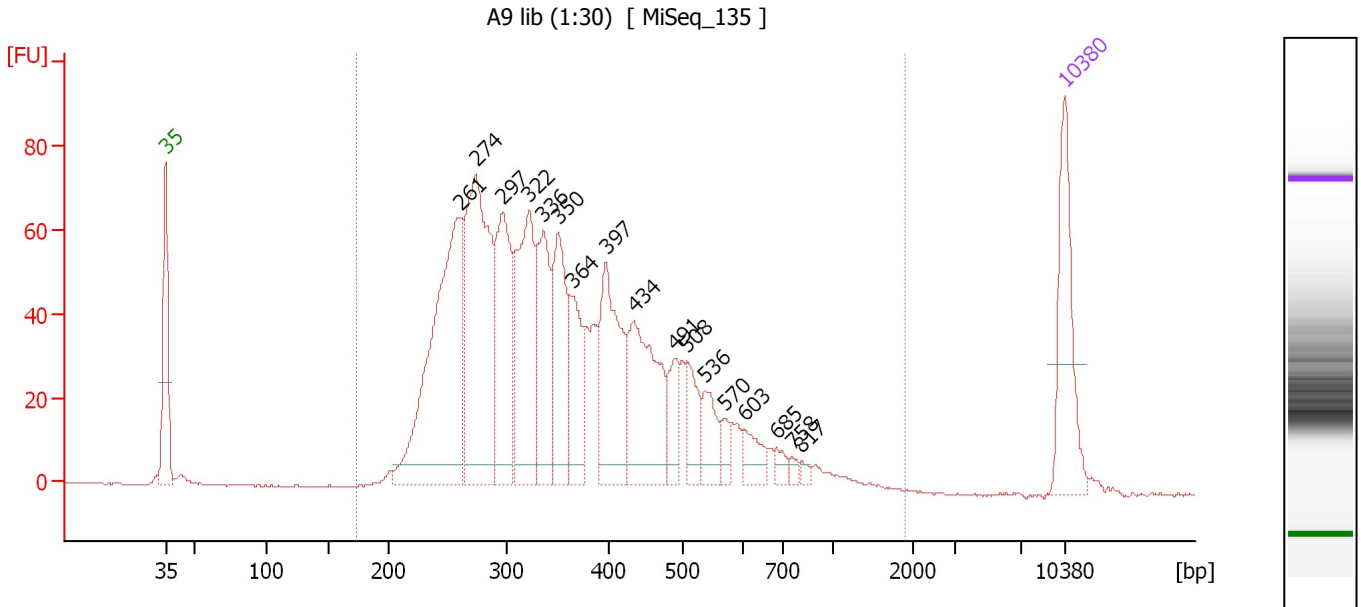
Region table for sample 8 : A8 lib (1:7)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
167	344	1,000	958.9	4,611.1	98	30.7	944.13

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : A9 lib (1:30)

Number of peaks found: 17 Corr. Area 1: 1,638.3
 Noise: 0.2

Peak table for sample 9 : A9 lib (1:30)

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	261	341.30	1,984.7		65.91
3	274	290.20	1,602.2		67.19
4	297	159.83	814.9		69.28
5	322	167.43	787.2		71.33
6	336	117.81	531.8		72.40
7	350	111.08	480.5		73.58
8	364	71.81	298.7		74.70
9	397	128.56	490.9		77.31
10	434	138.75	484.0		79.51
11	491	38.29	118.1		82.73
12	508	38.35	114.4		83.60
13	536	35.97	101.7		84.93
14	570	15.72	41.8		86.56
15	603	23.51	59.1		88.05
16	685	9.52	21.1		90.55
17	758	5.55	11.1		91.78
18	817	4.36	8.1		92.55
19	10,380	75.00	10.9	Upper Marker	113.00

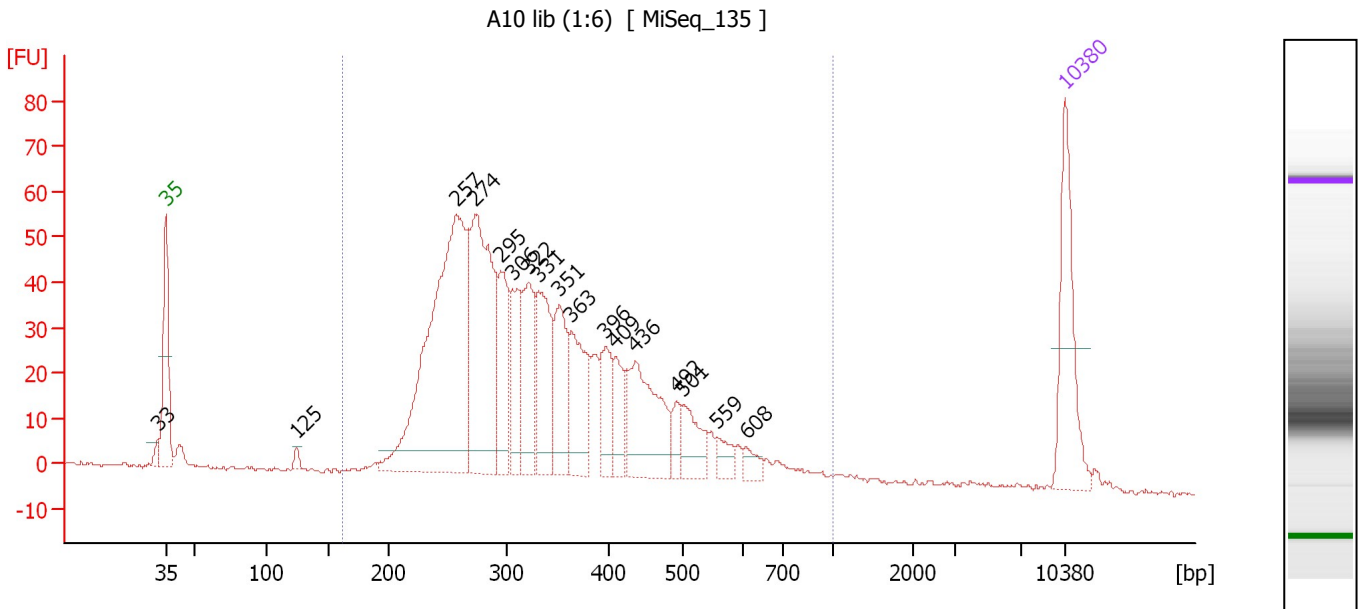
Region table for sample 9 : A9 lib (1:30)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
174	381	1,911	1,638.3	8,677.3	99	41.3	1,889.09

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

Created: 7/2/2015 9:00:29 AM
 Modified: 7/2/2015 9:55:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : A10 lib (1:6)

Number of peaks found: 17 Corr. Area 1: 1,154.5
 Noise: 0.4

Peak table for sample 10 : A10 lib (1:6)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.38
2	35	125.00	5,411.3	Lower Marker	43.00
3	125	6.86	83.4		53.22
4	257	433.05	2,549.7		65.61
5	274	244.44	1,353.7		67.11
6	295	82.37	422.4		69.12
7	306	70.96	351.0		70.05
8	322	85.57	402.9		71.29
9	331	93.19	426.0		72.06
10	351	74.60	321.7		73.66
11	363	78.71	328.6		74.59
12	396	48.24	184.4		77.28
13	409	35.19	130.5		78.05
14	436	107.23	372.7		79.60
15	492	17.46	53.8		82.75
16	501	39.92	120.7		83.27
17	559	15.02	40.7		86.00
18	608	11.39	28.4		88.22
19	10,380	75.00	10.9	Upper Marker	113.00

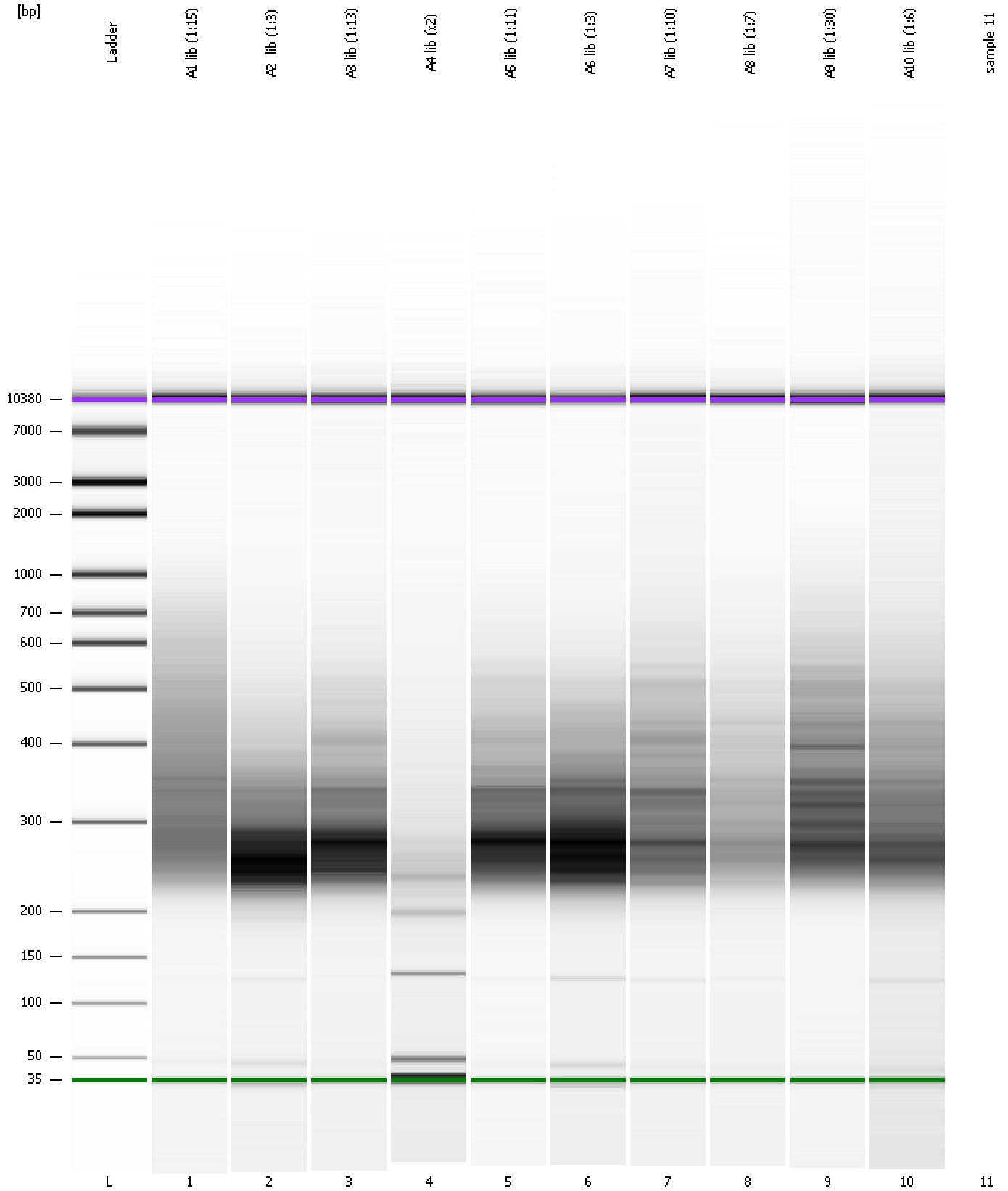
Region table for sample 10 : A10 lib (1:6)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
163	349	1,000	1,154.5	7,567.7	96	31.9	1,562.45

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

Created: 7/2/2015 9:00:29 AM
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Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-02\2015-07-02_001.xad

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Invalid Samples

Sample 11 has not been run, no results available.