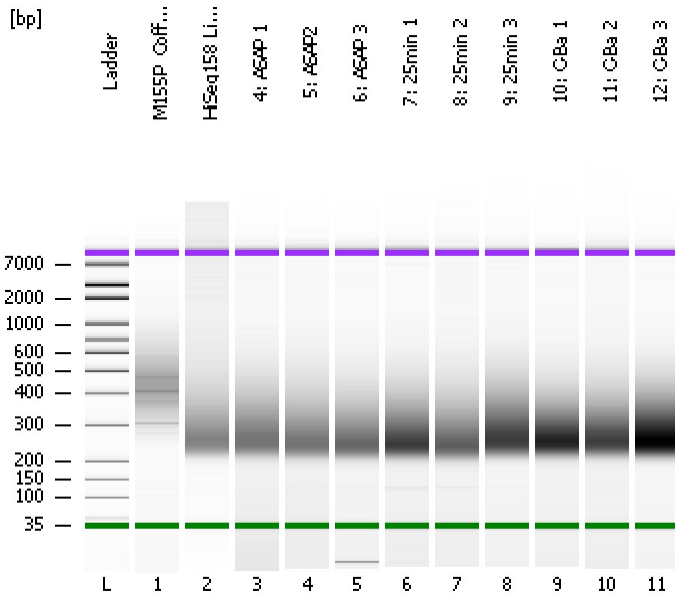


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
Modified: 8/7/2015 12:04:13 PM

Electrophoresis File Run Summary



Instrument Information:

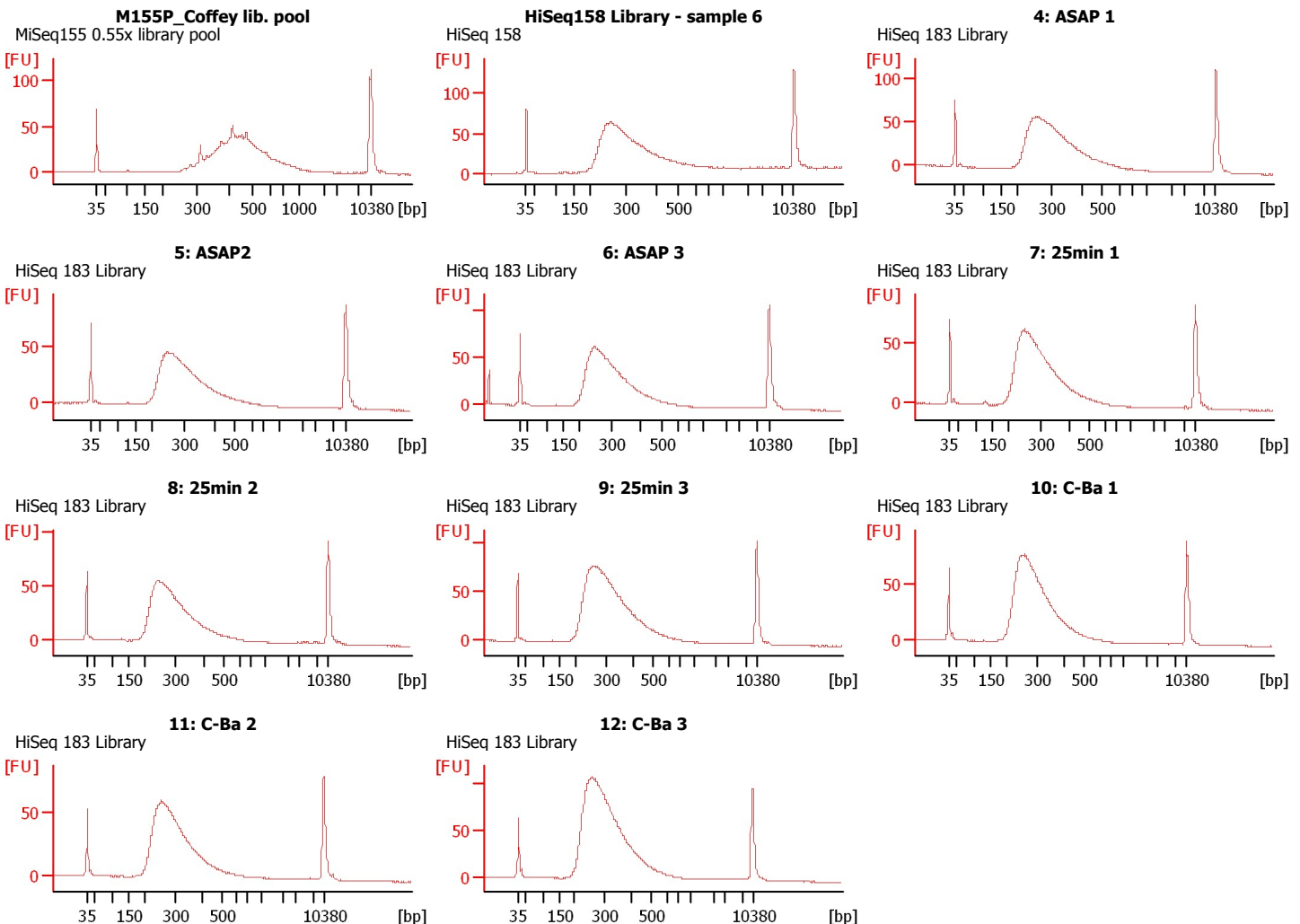
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
Modified: 8/7/2015 12:04:13 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
M155P_Coffey lib. pool	MiSeq155 0.55x library pool	<input type="checkbox"/>	✓			
HiSeq158 Library - sample 6	HiSeq 158	<input type="checkbox"/>	✓			
4: ASAP 1	HiSeq 183 Library	<input type="checkbox"/>	✓			
5: ASAP2	HiSeq 183 Library	<input type="checkbox"/>	✓			
6: ASAP 3	HiSeq 183 Library	<input type="checkbox"/>	✓			
7: 25min 1	HiSeq 183 Library	<input type="checkbox"/>	✓			
8: 25min 2	HiSeq 183 Library	<input type="checkbox"/>	✓			
9: 25min 3	HiSeq 183 Library	<input type="checkbox"/>	✓			
10: C-Ba 1	HiSeq 183 Library	<input type="checkbox"/>	✓			
11: C-Ba 2	HiSeq 183 Library	<input type="checkbox"/>	✓			
12: C-Ba 3	HiSeq 183 Library	<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\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
Modified: 8/7/2015 12:04:13 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

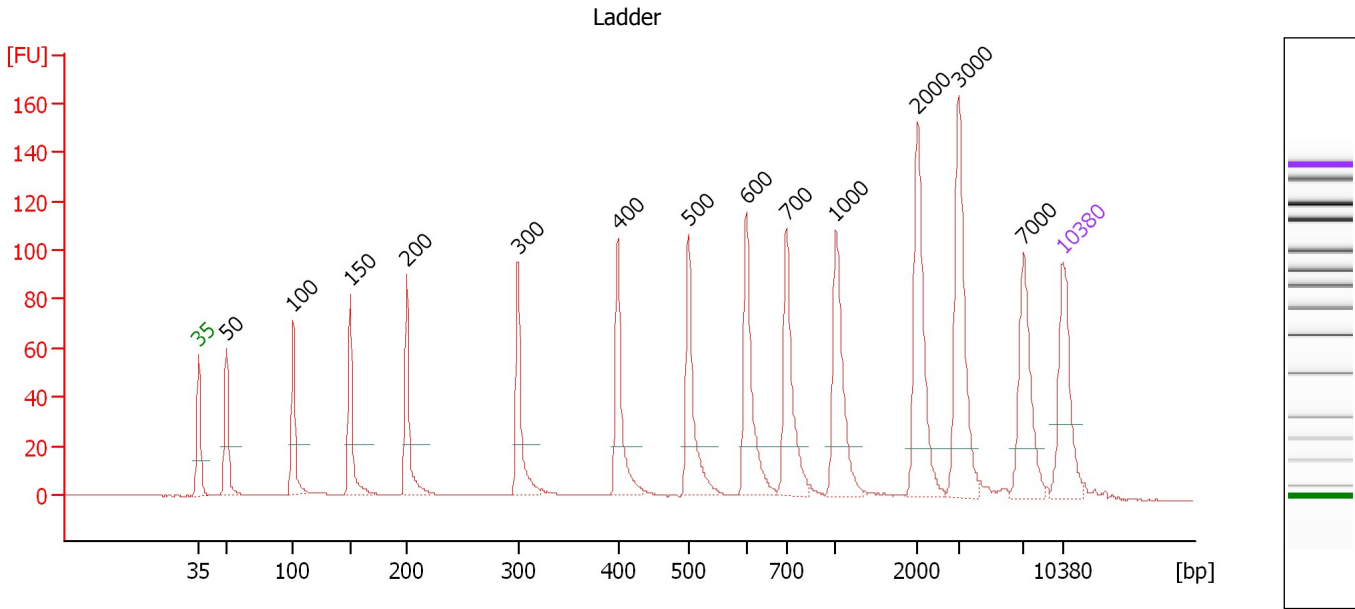
Ladder

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\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
 Modified: 8/7/2015 12:04:13 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

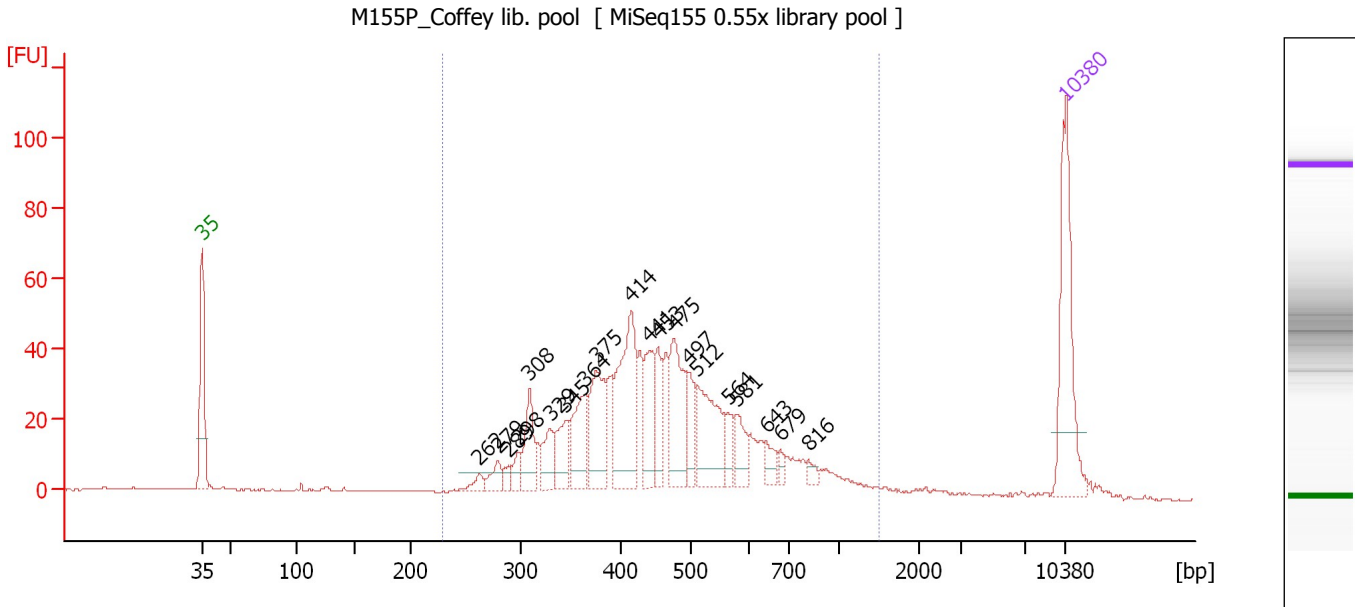
Peak table for Ladder

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	45.25
3	100	150.00	2,272.7	Ladder Peak	50.64
4	150	150.00	1,515.2	Ladder Peak	55.26
5	200	150.00	1,136.4	Ladder Peak	59.84
6	300	150.00	757.6	Ladder Peak	68.87
7	400	150.00	568.2	Ladder Peak	76.94
8	500	150.00	454.5	Ladder Peak	82.64
9	600	150.00	378.8	Ladder Peak	87.35
10	700	150.00	324.7	Ladder Peak	90.59
11	1,000	150.00	227.3	Ladder Peak	94.60
12	2,000	150.00	113.6	Ladder Peak	101.21
13	3,000	150.00	75.8	Ladder Peak	104.58
14	7,000	150.00	32.5	Ladder Peak	109.80
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
 Modified: 8/7/2015 12:04:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : M155P Coffey lib. pool

Number of peaks found: 20 Corr. Area 1: 903.2
 Noise: 0.1

Peak table for sample 1 : M155P Coffey lib. pool


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	9.20	53.2		65.45
3	279	14.73	80.0		66.97
4	289	7.40	38.9		67.83
5	298	11.30	57.5		68.66
6	308	36.65	180.3		69.52
7	329	25.12	115.7		71.21
8	345	30.64	134.8		72.46
9	364	49.19	204.6		74.06
10	375	62.15	251.1		74.93
11	414	102.16	373.9		77.74
12	441	44.56	153.2		79.25
13	453	29.32	98.1		79.95
14	475	66.32	211.3		81.24
15	497	24.62	75.1		82.46
16	512	63.96	189.4		83.19
17	564	13.75	36.9		85.66
18	581	19.90	51.9		86.44
19	643	13.04	30.8		88.73
20	679	5.46	12.2		89.90
21	816	6.06	11.3		92.15
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
Modified: 8/7/2015 12:04:13 PM

Electropherogram Summary Continued ...

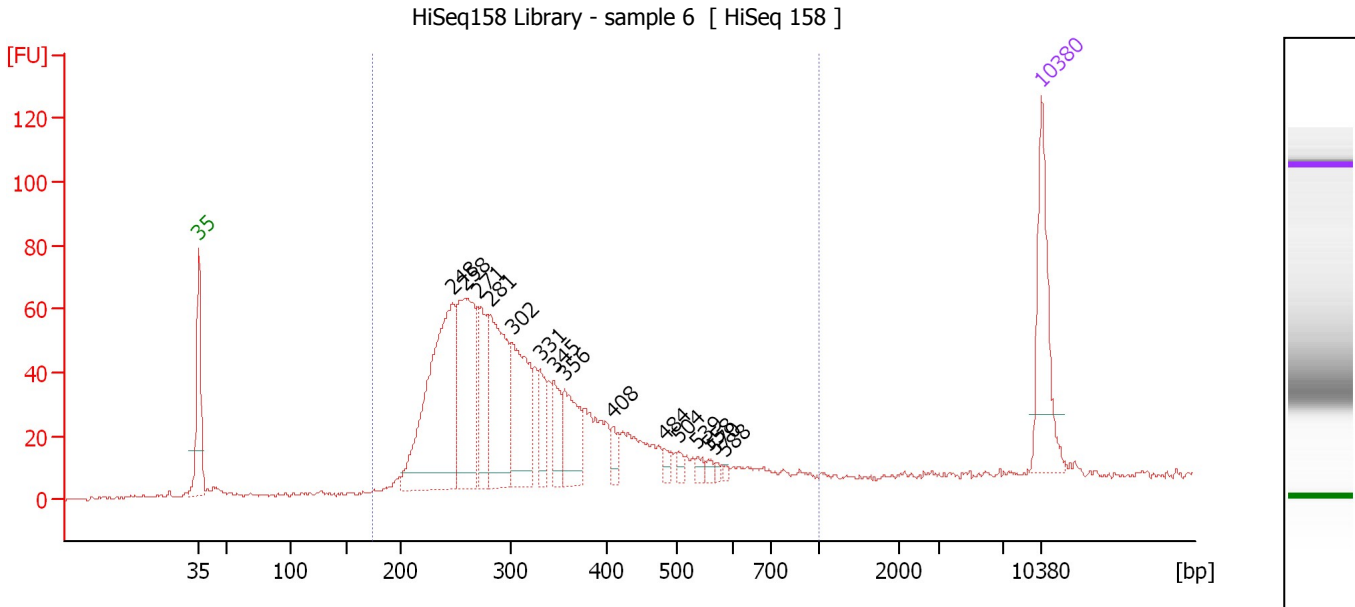
... Region table for sample 1 : M155P Coffey lib. pool

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/ μ l]
230	481	1,508	903.2	3,116.4	 93	35.1	877.55

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : HiSeq158 Library - sample 6

Number of peaks found: 15 Corr. Area 1: 1,203.8
 Noise: 0.6

Peak table for sample 2 : HiSeq158 Library - sample 6

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	248	295.00	1,805.6		64.13
3	258	188.22	1,106.0		65.06
4	271	79.40	443.7		66.26
5	281	157.96	850.5		67.19
6	302	122.06	612.9		69.01
7	331	38.47	176.2		71.35
8	345	39.25	172.4		72.51
9	356	67.54	287.4		73.39
10	408	13.09	48.6		77.42
11	484	8.39	26.3		81.72
12	504	7.76	23.3		82.83
13	539	6.56	18.5		84.47
14	558	5.46	14.8		85.35
15	570	3.60	9.6		85.93
16	588	3.19	8.2		86.77
17	10,380	75.00	10.9	Upper Marker	113.00

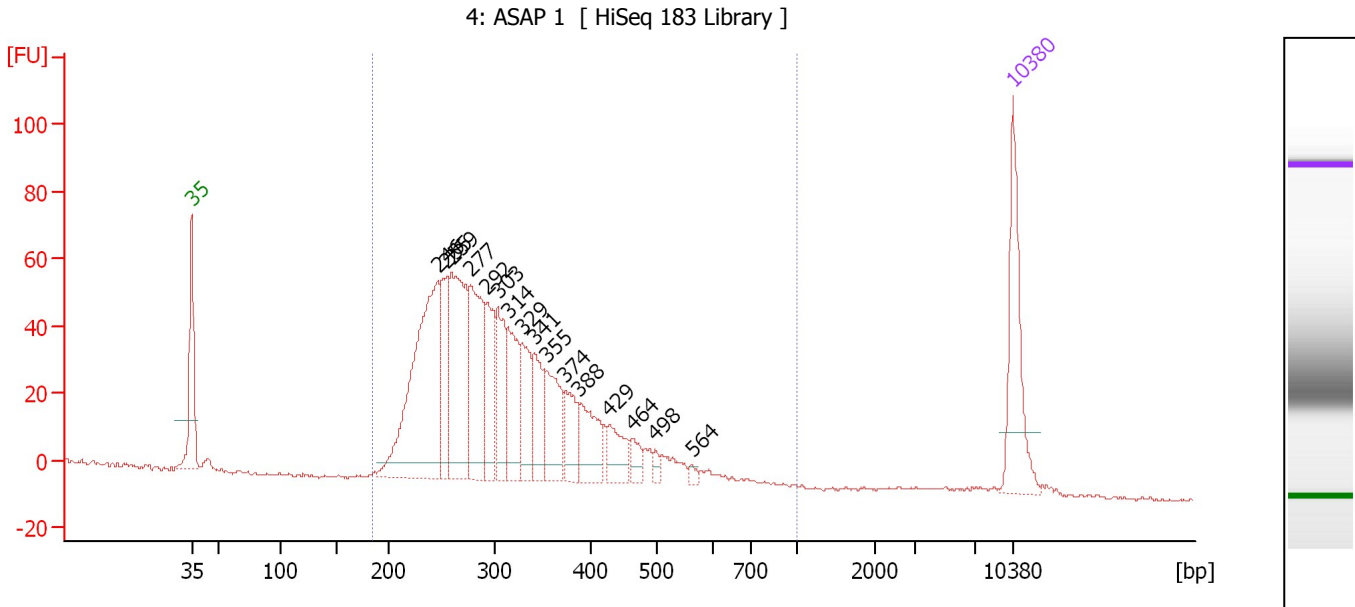
Region table for sample 2 : HiSeq158 Library - sample 6

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
174	330	1,000	1,203.8	6,631.9	97	33.0	1,300.02

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : 4: ASAP 1

Number of peaks found: 16 Corr. Area 1: 1,195.8
 Noise: 0.4

Peak table for sample 3 : 4: ASAP 1

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	292.24	1,803.1		63.95
3	255	80.87	481.2		64.77
4	259	178.80	1,045.3		65.18
5	277	132.95	727.7		66.77
6	292	75.54	392.1		68.14
7	303	72.57	363.2		69.09
8	314	79.00	381.1		70.00
9	329	61.14	281.9		71.18
10	341	53.71	238.6		72.18
11	355	70.42	300.9		73.27
12	374	43.78	177.2		74.86
13	388	58.57	228.5		76.00
14	429	35.24	124.5		78.59
15	464	16.40	53.5		80.59
16	498	6.53	19.9		82.50
17	564	4.95	13.3		85.64
18	10,380	75.00	10.9	Upper Marker	113.00

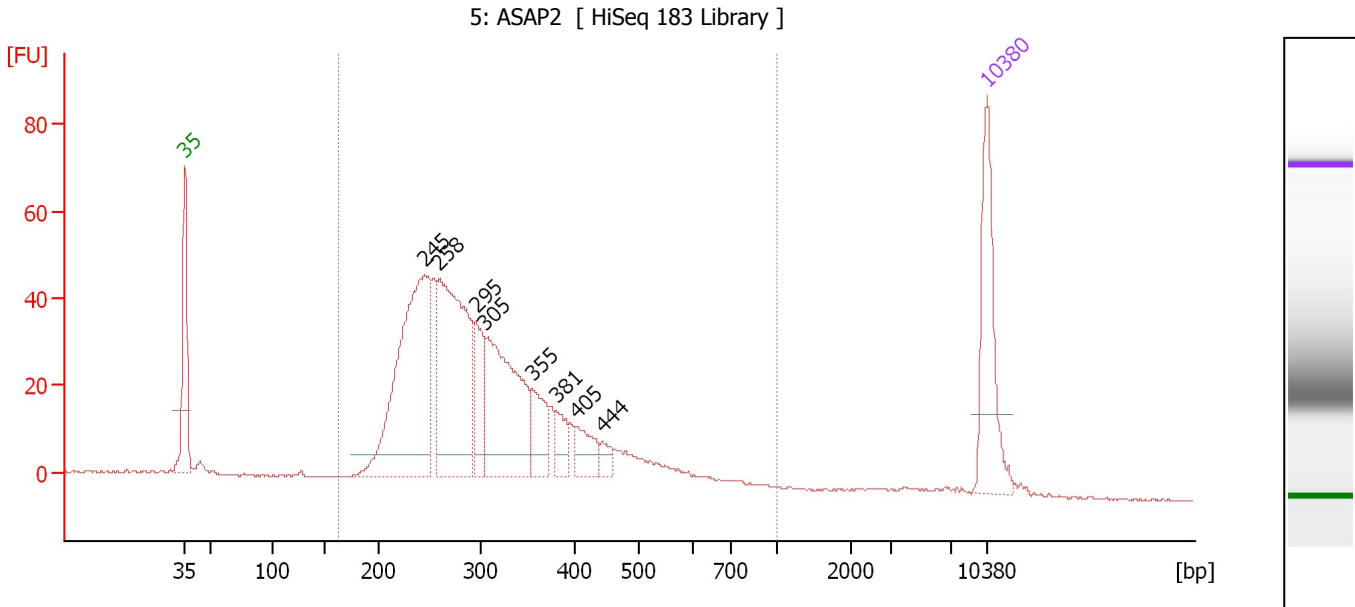
Region table for sample 3 : 4: ASAP 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
185	320	1,000	1,195.8	6,708.0	98	27.9	1,305.66

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
 Modified: 8/7/2015 12:04:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 5: ASAP2

Number of peaks found: 8 Corr. Area 1: 930.0
 Noise: 0.2

Peak table for sample 4 : 5: ASAP2

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	245	310.00	1,917.6		63.90
3	258	256.12	1,502.1		65.11
4	295	53.91	276.9		68.41
5	305	181.11	900.5		69.25
6	355	42.40	181.0		73.30
7	381	23.63	94.0		75.39
8	405	28.16	105.2		77.26
9	444	12.04	41.1		79.44
10	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 : 5: ASAP2

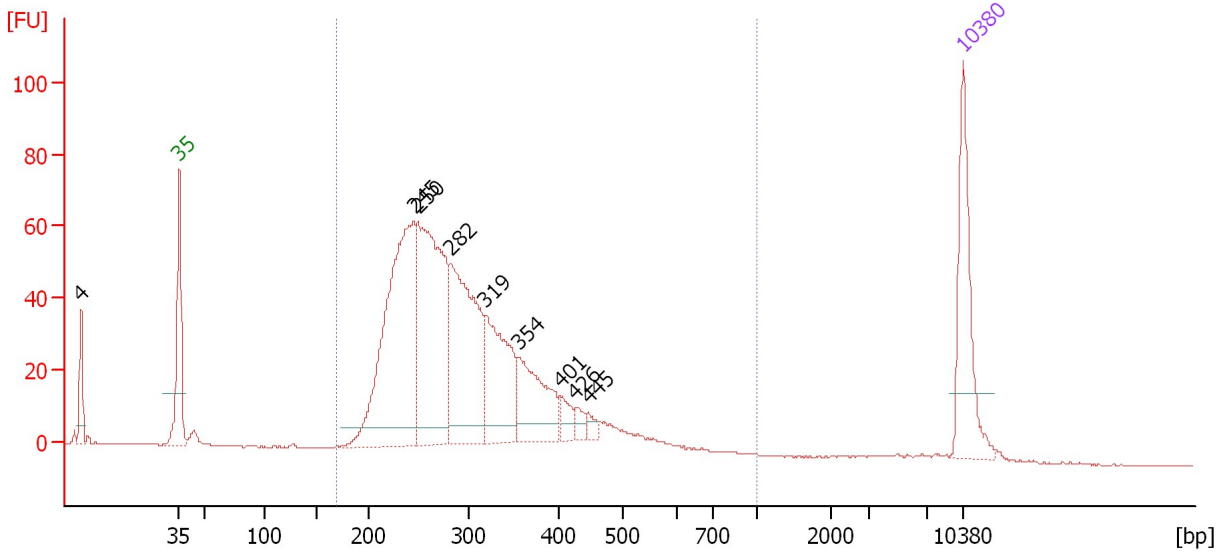
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
162	318	1,000	930.0	5,758.7	95	31.5	1,095.83

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
 Modified: 8/7/2015 12:04:13 PM

Electropherogram Summary Continued ...

6: ASAP 3 [HiSeq 183 Library]



Overall Results for sample 5 : 6: ASAP 3

Number of peaks found: 9 Corr. Area 1: 1,067.9
 Noise: 0.2

Peak table for sample 5 : 6: ASAP 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	4	0.00	0.0		34.24
2	35	125.00	5,411.3	Lower Marker	43.00
3	245	331.27	2,045.4		63.94
4	250	284.71	1,728.2		64.32
5	282	212.47	1,142.5		67.22
6	319	122.88	584.5		70.36
7	354	87.90	375.7		73.27
8	401	16.58	62.6		77.02
9	426	10.03	35.7		78.40
10	445	8.02	27.3		79.50
11	10,380	75.00	10.9	Upper Marker	113.00

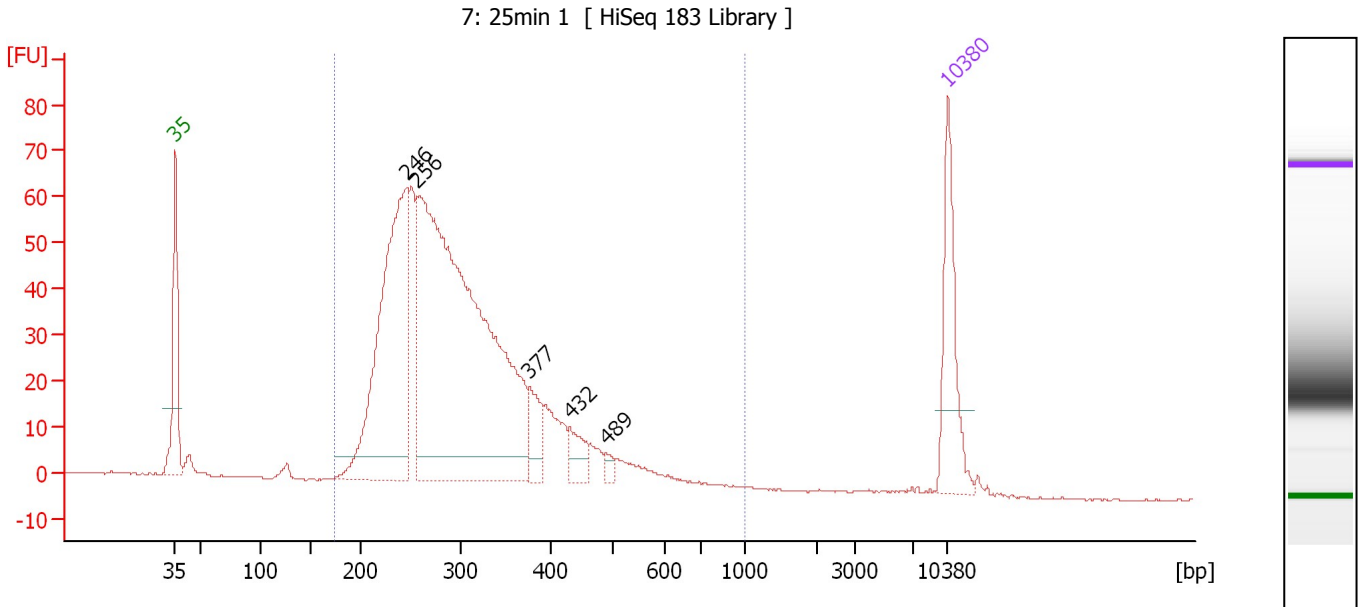
Region table for sample 5 : 6: ASAP 3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
169	299	1,000	1,067.9	5,901.4	97	24.1	1,095.29

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
 Modified: 8/7/2015 12:04:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 7: 25min 1

Number of peaks found: 5 Corr. Area 1: 1,160.5
 Noise: 0.1

Peak table for sample 6 : 7: 25min 1

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	405.32	2,494.0		64.01
3	256	876.96	5,182.1		64.93
4	377	39.11	157.2		75.08
5	432	27.48	96.4		78.75
6	489	8.65	26.8		82.03
7	10,380	75.00	10.9	Upper Marker	113.00

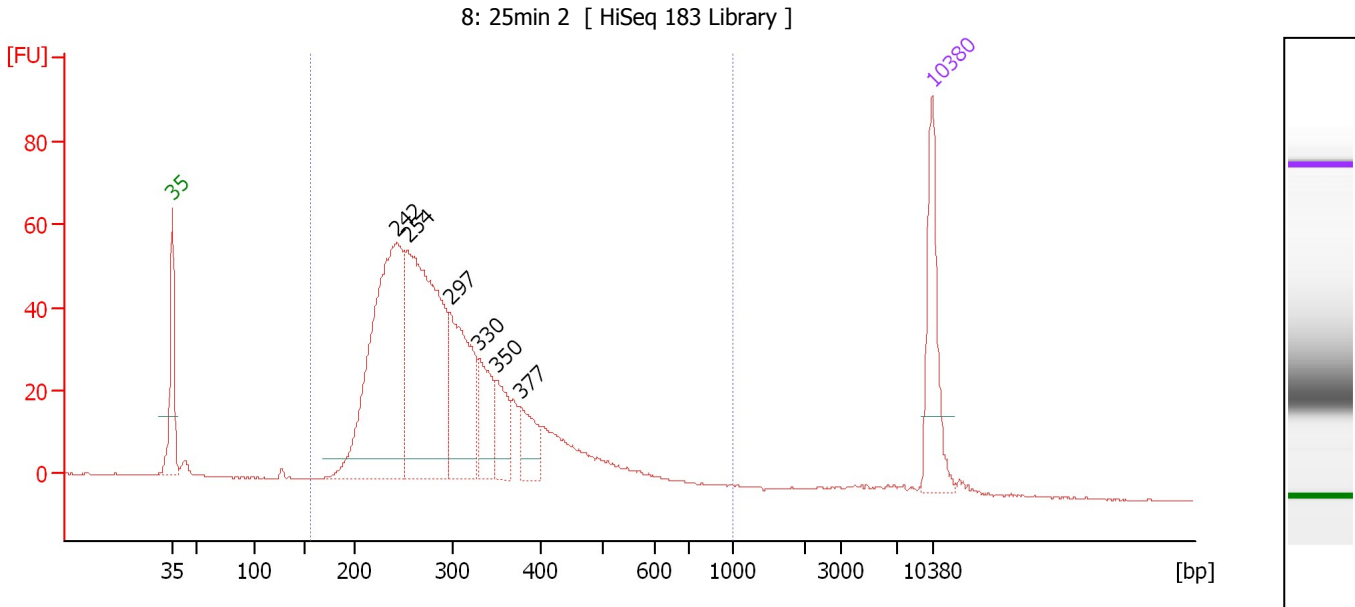
Region table for sample 6 : 7: 25min 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
173	308	1,000	1,160.5	7,956.4	98	28.6	1,494.30

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
 Modified: 8/7/2015 12:04:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 8: 25min 2

Number of peaks found: 6 Corr. Area 1: 1,067.0
 Noise: 0.1

Peak table for sample 7 : 8: 25min 2

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	242	428.85	2,680.8		63.67
3	254	415.63	2,481.2		64.70
4	297	176.24	898.1		68.62
5	330	70.83	325.4		71.27
6	350	52.07	225.5		72.89
7	377	46.94	188.9		75.05
8	10,380	75.00	10.9	Upper Marker	113.00

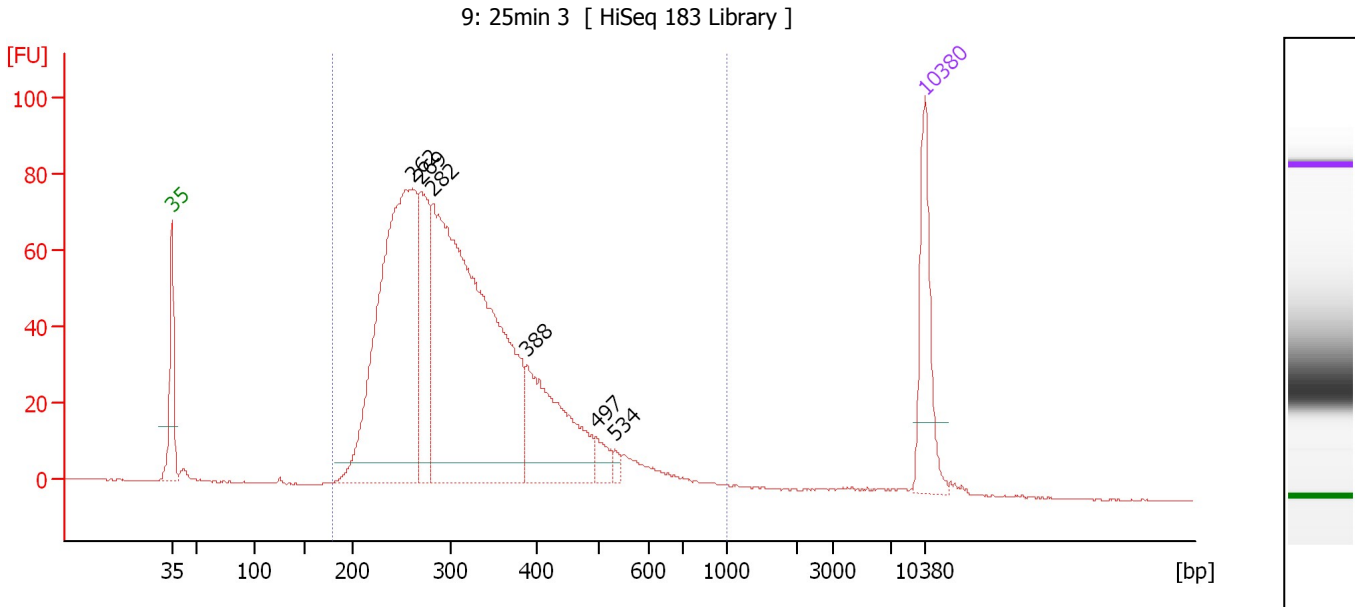
Region table for sample 7 : 8: 25min 2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
155	309	1,000	1,067.0	7,361.6	96	30.9	1,370.61

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
 Modified: 8/7/2015 12:04:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 9: 25min 3

Number of peaks found: 6 Corr. Area 1: 1,585.7
 Noise: 0.1

Peak table for sample 8 : 9: 25min 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	262	594.91	3,442.3		65.42
3	269	154.86	872.2		66.07
4	282	797.15	4,288.5		67.21
5	388	178.92	698.3		75.99
6	497	19.79	60.3		82.49
7	534	6.43	18.2		84.23
8	10,380	75.00	10.9	Upper Marker	113.00

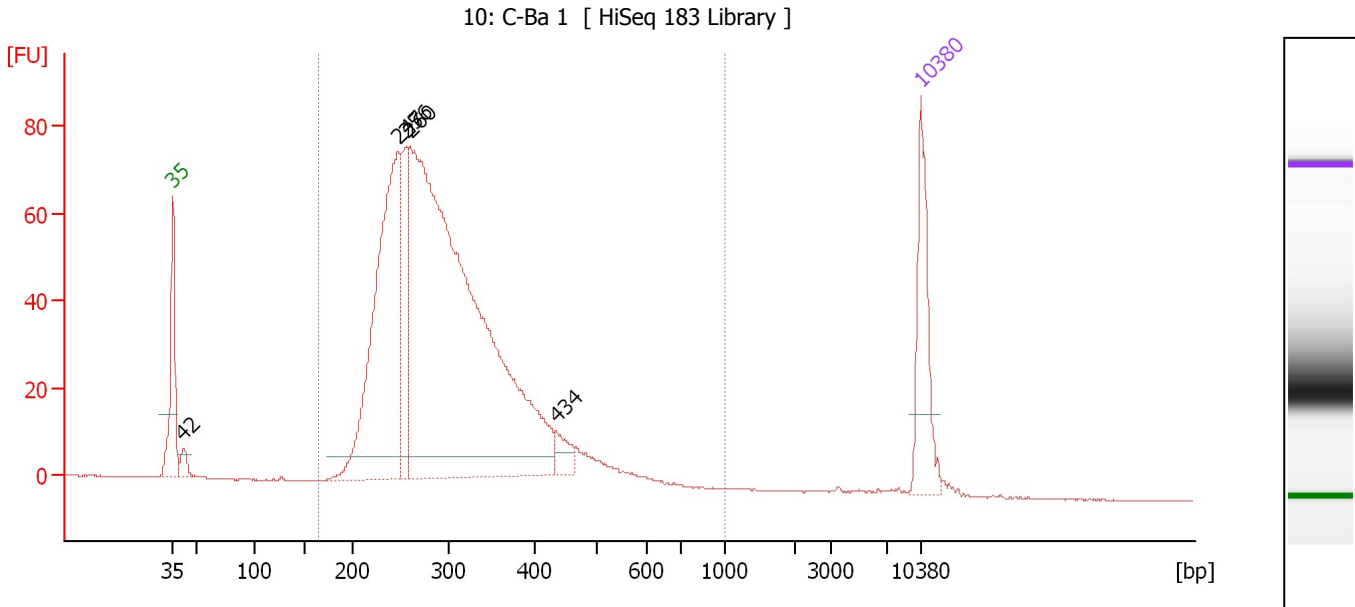
Region table for sample 8 : 9: 25min 3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
178	327	1,000	1,585.7	9,094.1	98	30.5	1,787.82

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
 Modified: 8/7/2015 12:04:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 10: C-Ba 1

Number of peaks found: 5 Corr. Area 1: 1,309.5
 Noise: 0.1

Peak table for sample 9 : 10: C-Ba 1

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	42	18.21	662.3		44.00
3	247	442.63	2,718.7		64.05
4	256	106.29	630.3		64.85
5	260	1,154.76	6,730.6		65.25
6	434	22.35	78.1		78.87
7	10,380	75.00	10.9	Upper Marker	113.00

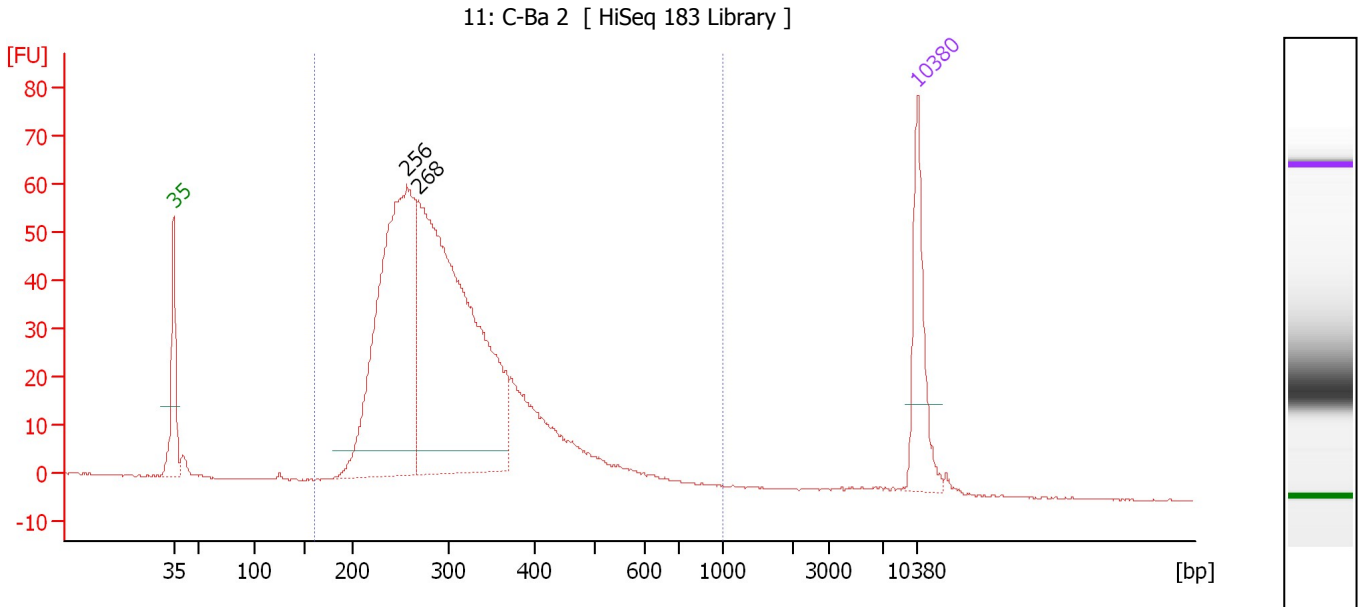
Region table for sample 9 : 10: C-Ba 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
165	305	1,000	1,309.5	9,248.6	99	25.1	1,743.20

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
 Modified: 8/7/2015 12:04:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 11: C-Ba 2

Number of peaks found: 2 Corr. Area 1: 1,069.6
 Noise: 0.1

Peak table for sample 10 : 11: C-Ba 2

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	256	563.37	3,329.6		64.93
3	268	742.00	4,194.3		65.98
4	10,380	75.00	10.9	Upper Marker	113.00

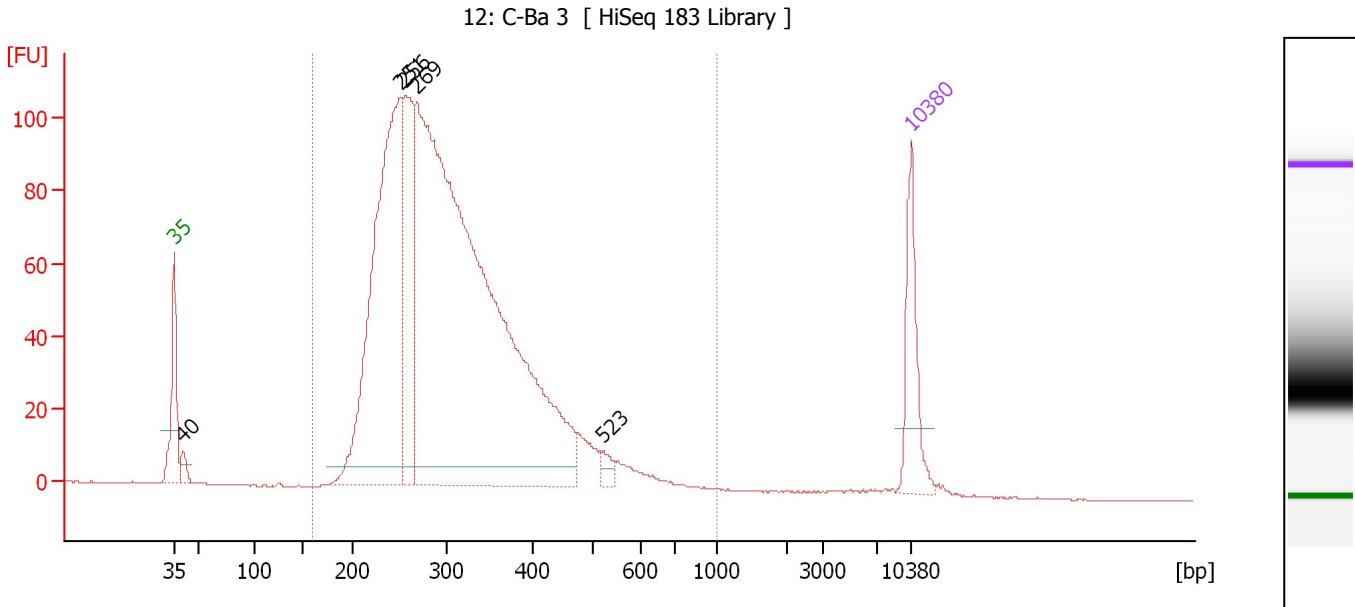
Region table for sample 10 : 11: C-Ba 2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
160	313	1,000	1,069.6	8,048.4	98	28.5	1,537.77

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
 Modified: 8/7/2015 12:04:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 12: C-Ba 3

Number of peaks found: 5 Corr. Area 1: 2,009.6
 Noise: 0.1

Peak table for sample 11 : 12: C-Ba 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	40	20.88	782.8		43.81
3	251	674.96	4,080.6		64.41
4	256	236.81	1,400.3		64.92
5	269	1,618.38	9,130.3		66.03
6	523	14.09	40.8		83.74
7	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 12: C-Ba 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	315	1,000	2,009.6	12,954.0	98	28.1	2,484.74

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-07\2015-08-07_001.xad

Created: 8/7/2015 11:21:09 AM
Modified: 8/7/2015 12:04:13 PM

Gel Image

