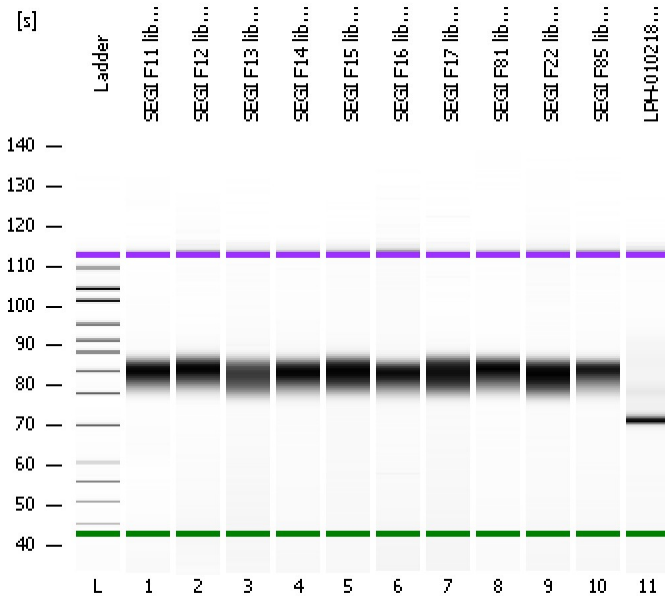


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
Modified: 1/8/2018 4:45:27 PM

Electrophoresis File Run Summary



Instrument Information:

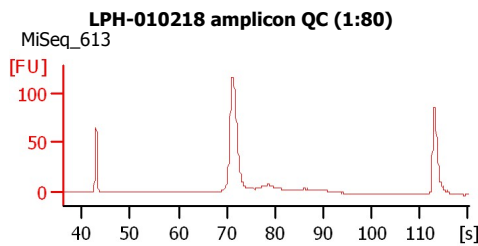
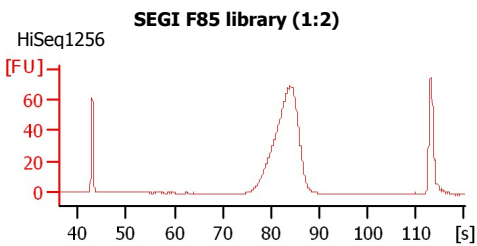
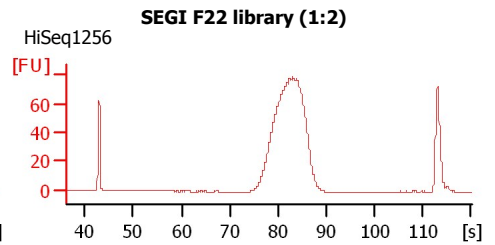
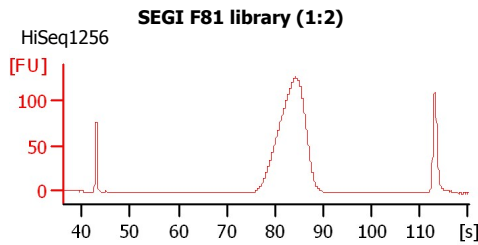
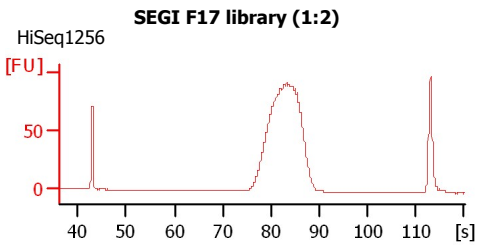
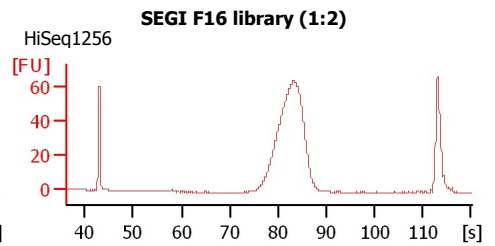
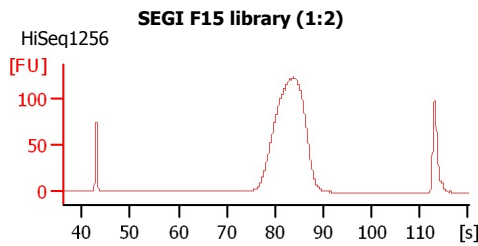
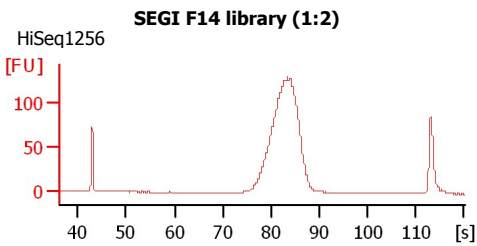
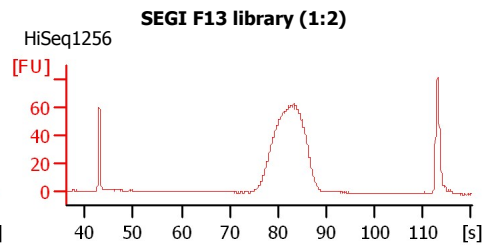
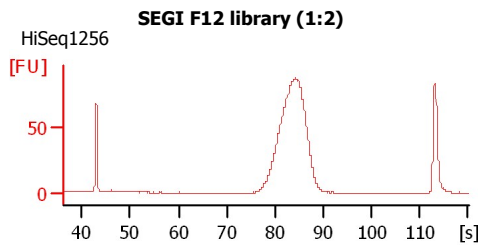
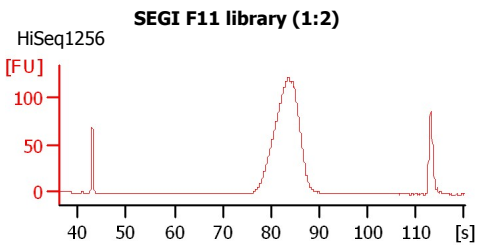
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Serial#: DE13701086 Type: G2938B

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:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SEGI F11 library (1:2)	HiSeq1256	<input type="checkbox"/>	✓			
SEGI F12 library (1:2)	HiSeq1256	<input type="checkbox"/>	✓			
SEGI F13 library (1:2)	HiSeq1256	<input type="checkbox"/>	✓			
SEGI F14 library (1:2)	HiSeq1256	<input type="checkbox"/>	✓			
SEGI F15 library (1:2)	HiSeq1256	<input type="checkbox"/>	✓			
SEGI F16 library (1:2)	HiSeq1256	<input type="checkbox"/>	✓			
SEGI F17 library (1:2)	HiSeq1256	<input type="checkbox"/>	✓			
SEGI F81 library (1:2)	HiSeq1256	<input type="checkbox"/>	✓			
SEGI F22 library (1:2)	HiSeq1256	<input type="checkbox"/>	✓			
SEGI F85 library (1:2)	HiSeq1256	<input type="checkbox"/>	✓			
LPH-010218 amplicon QC (1:80)	MiSeq_613	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

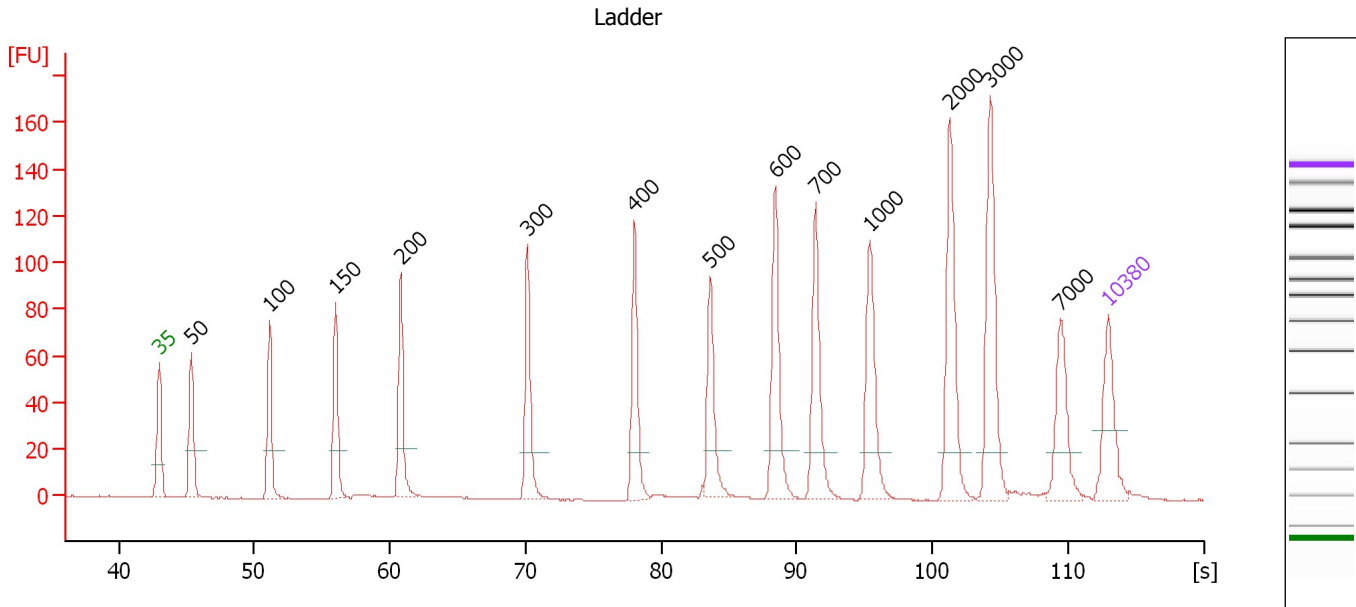
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

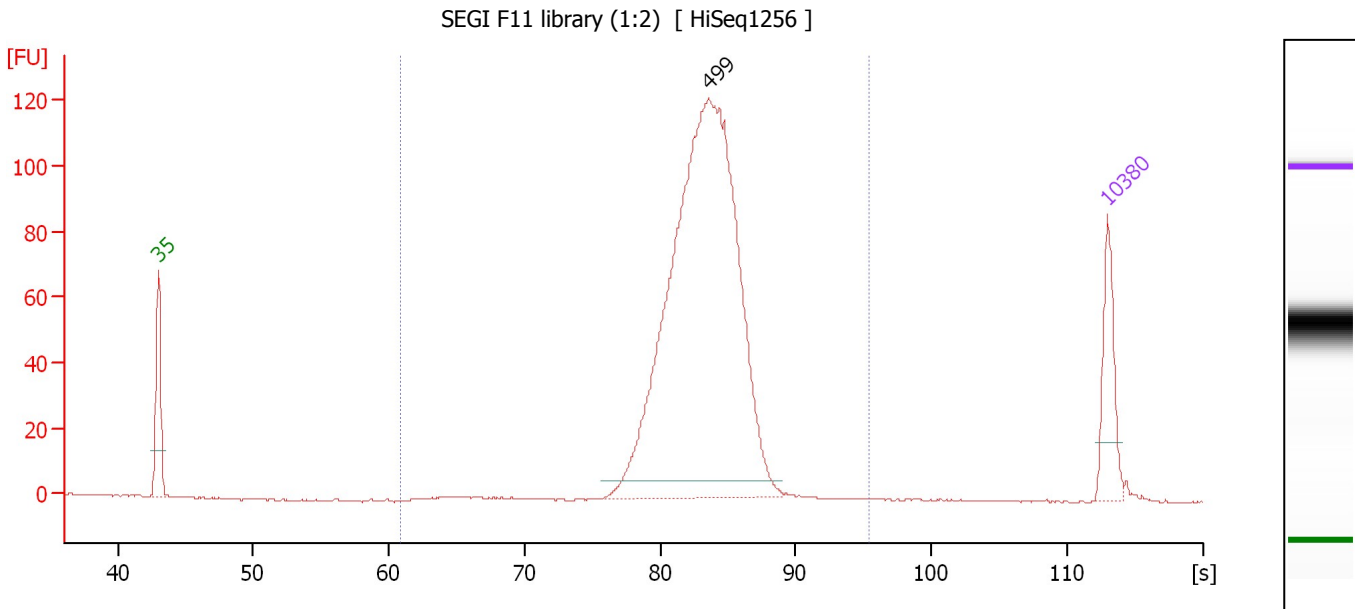
Peak table for Ladder

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	45.38
3	100	150.00	2,272.7	Ladder Peak	51.11
4	150	150.00	1,515.2	Ladder Peak	56.01
5	200	150.00	1,136.4	Ladder Peak	60.81
6	300	150.00	757.6	Ladder Peak	70.14
7	400	150.00	568.2	Ladder Peak	78.07
8	500	150.00	454.5	Ladder Peak	83.67
9	600	150.00	378.8	Ladder Peak	88.42
10	700	150.00	324.7	Ladder Peak	91.41
11	1,000	150.00	227.3	Ladder Peak	95.42
12	2,000	150.00	113.6	Ladder Peak	101.29
13	3,000	150.00	75.8	Ladder Peak	104.28
14	7,000	150.00	32.5	Ladder Peak	109.46
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : SEGI F11 library (1:2)

Number of peaks found: 1 Corr. Area 1: 900.5
 Noise: 0.1

Peak table for sample 1 : SEGI F11 library (1:2)

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	499	1,273.85	3,869.3		83.60
3	10,380	75.00	10.9	Upper Marker	113.00

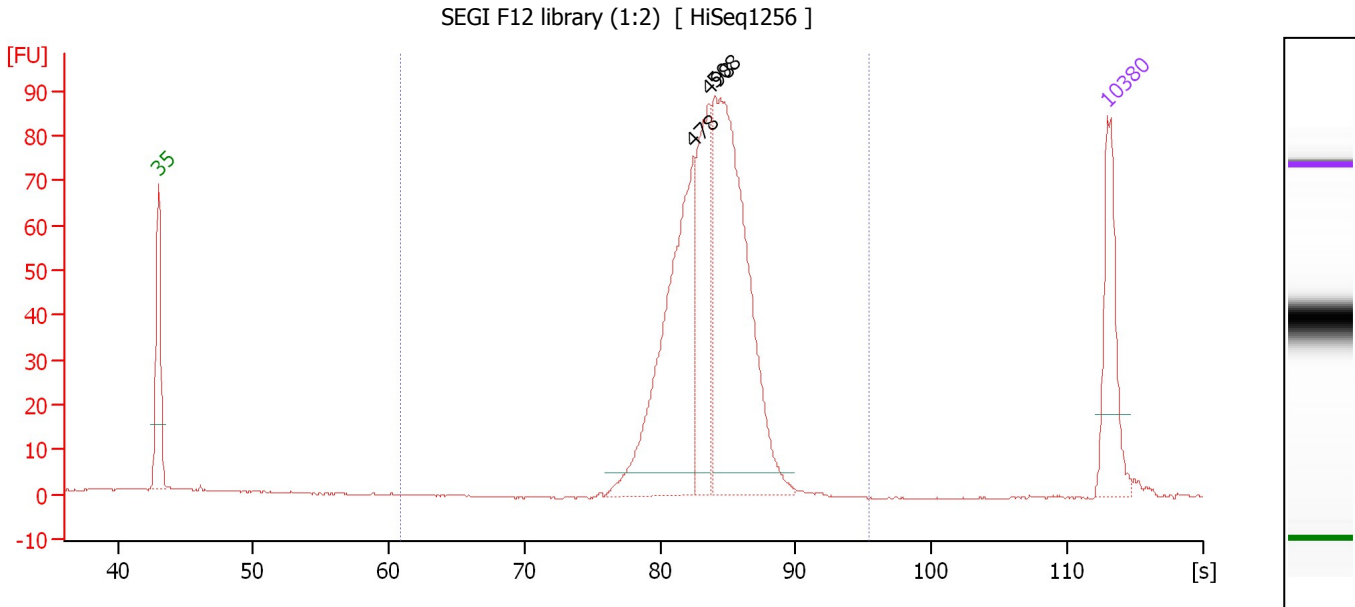
Region table for sample 1 : SEGI F11 library (1:2)

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.81	95.42	493	900.5	1,272.18	3,943.3	99	8.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : SEGI F12 library (1:2)

Number of peaks found: 3 Corr. Area 1: 711.9
 Noise: 0.2

Peak table for sample 2 : SEGI F12 library (1:2)

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	478	319.57	1,012.3		82.45
3	498	156.63	476.4		83.56
4	508	430.51	1,282.9		84.07
5	10,380	75.00	10.9	Upper Marker	113.00

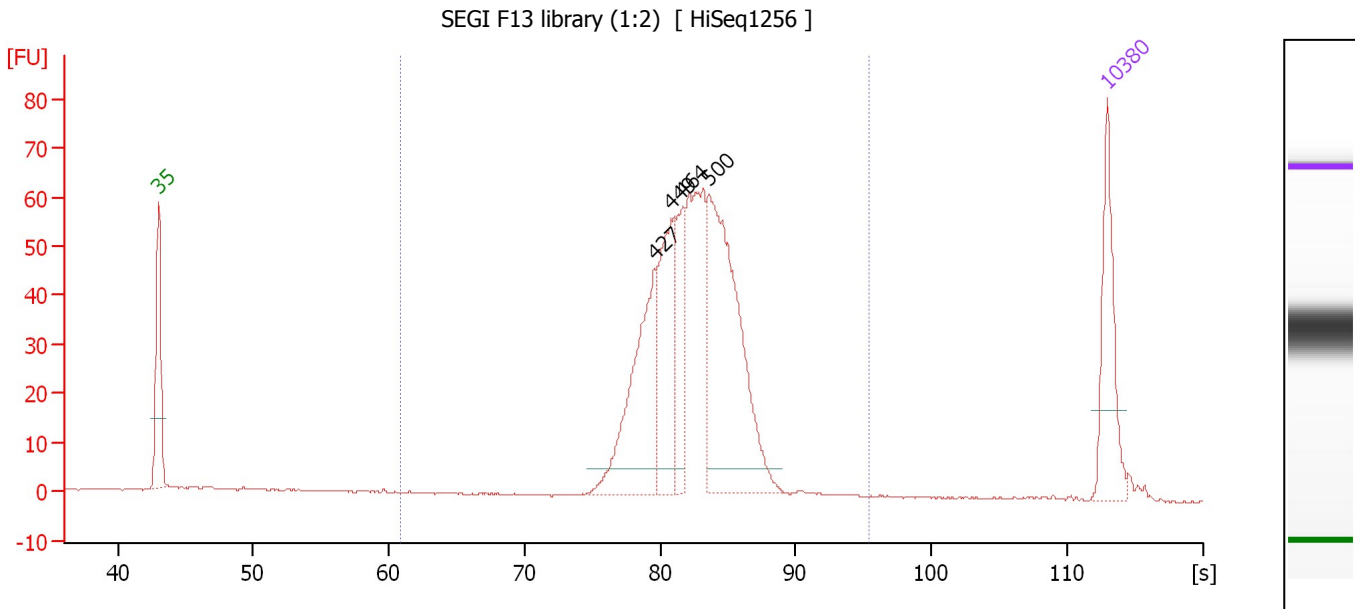
Region table for sample 2 : SEGI F12 library (1:2)

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.81	95.42	502	711.9	921.56	2,815.4	93	10.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : SEGI F13 library (1:2)

Number of peaks found: 4 Corr. Area 1: 614.0
 Noise: 0.1

Peak table for sample 3 : SEGI F13 library (1:2)

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	427	182.77	648.6		79.58
3	449	130.57	440.3		80.83
4	464	86.71	283.0		81.67
5	500	310.46	940.9		83.66
6	10,380	75.00	10.9	Upper Marker	113.00

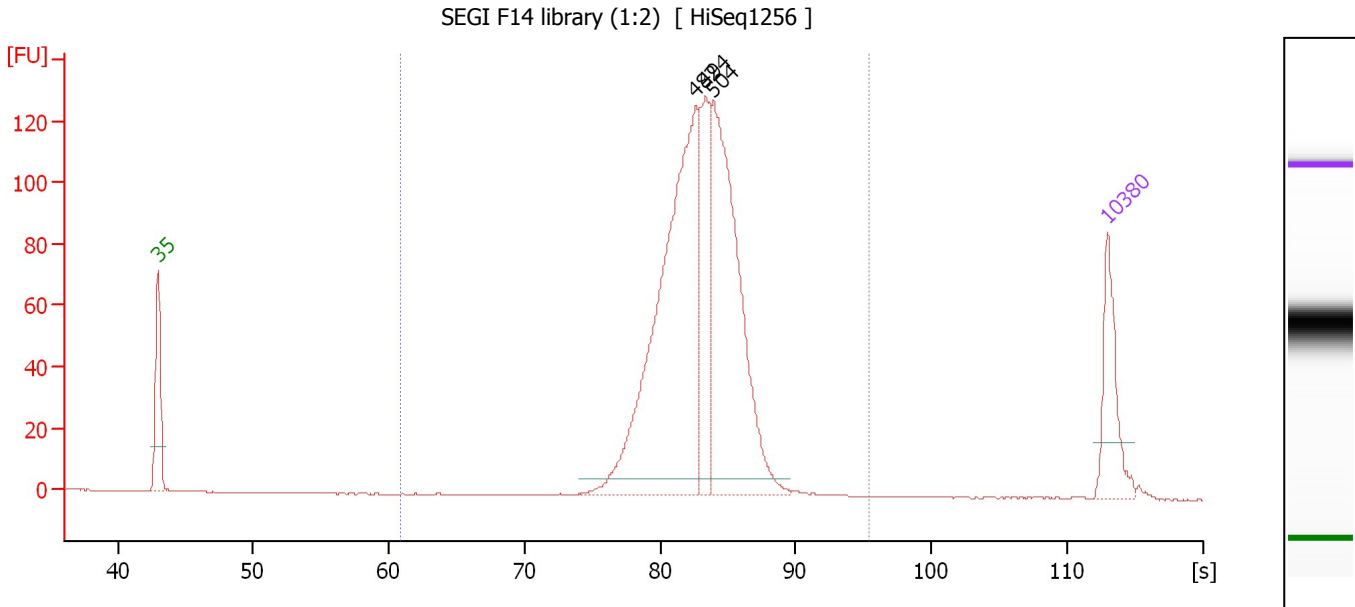
Region table for sample 3 : SEGI F13 library (1:2)

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.81	95.42	478	614.0	911.92	2,949.2	93	12.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SEGI F14 library (1:2)

Number of peaks found: 3 Corr. Area 1: 1,038.8
 Noise: 0.1

Peak table for sample 4 : SEGI F14 library (1:2)

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	482	642.00	2,019.4		82.64
3	494	160.36	491.5		83.35
4	504	473.64	1,422.9		83.87
5	10,380	75.00	10.9	Upper Marker	113.00

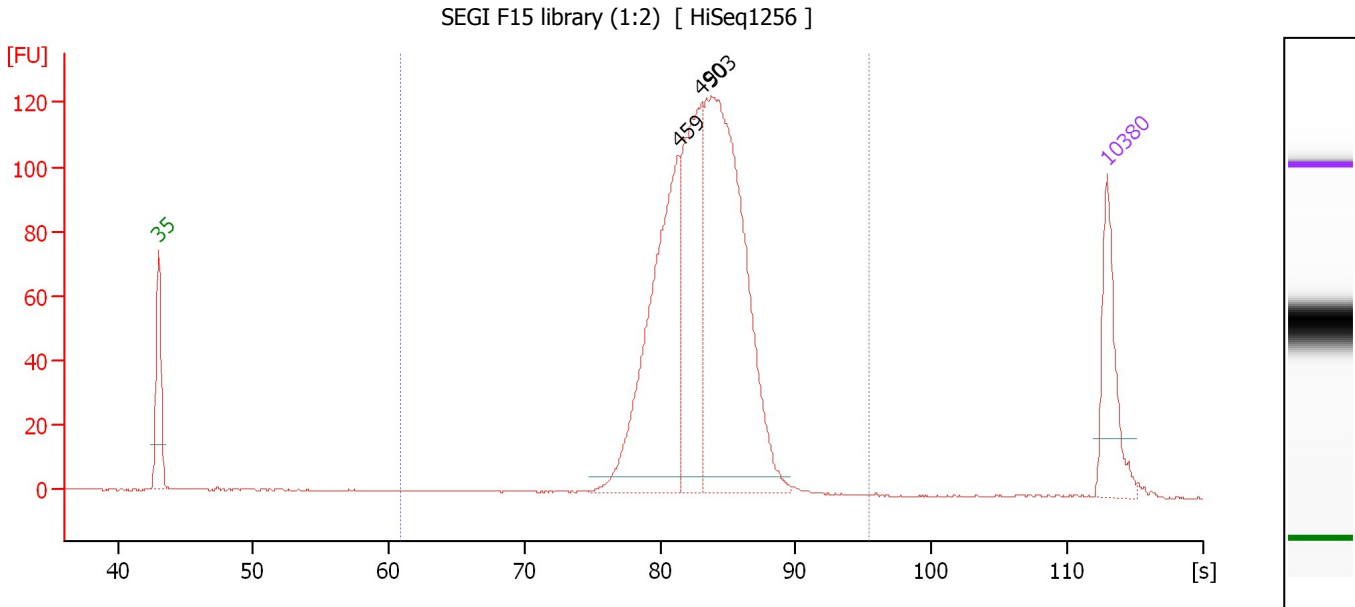
Region table for sample 4 : SEGI F14 library (1:2)

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.81	95.42	487	1,038.8	1,292.10	4,064.1	99	10.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SEGI F15 library (1:2)

Number of peaks found: 3 Corr. Area 1: 1,140.8
 Noise: 0.2

Peak table for sample 5 : SEGI F15 library (1:2)

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	459	363.24	1,199.8		81.36
3	490	235.35	728.4		83.08
4	503	563.51	1,698.0		83.80
5	10,380	75.00	10.9	Upper Marker	113.00

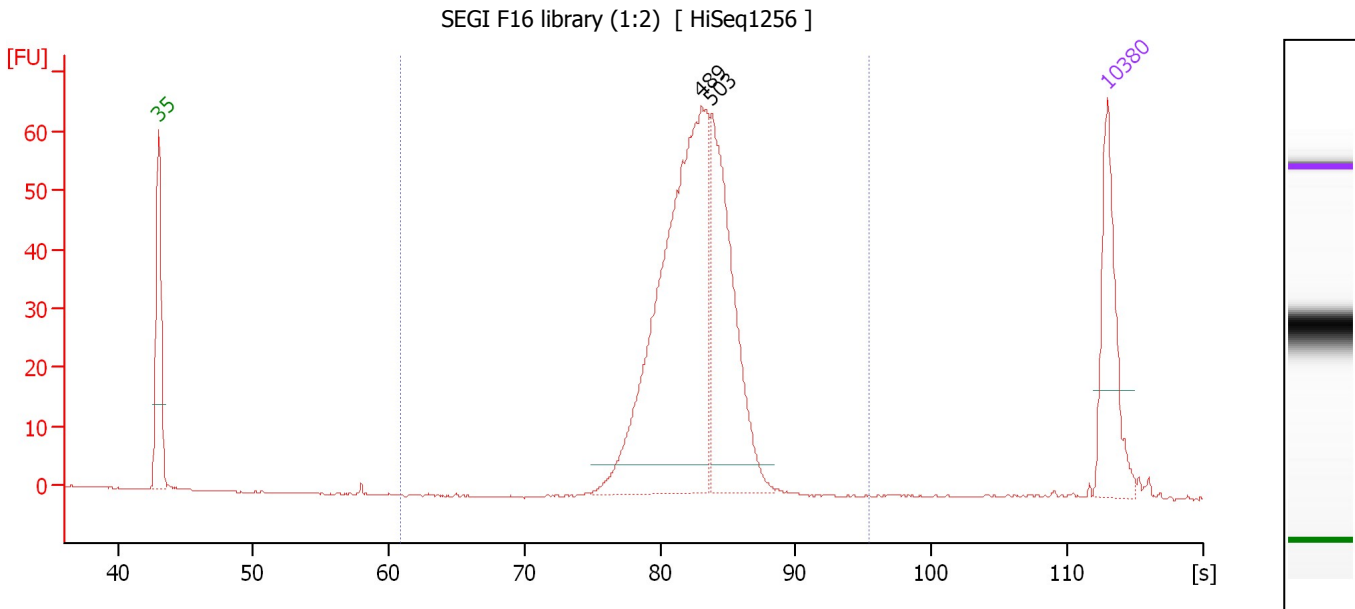
Region table for sample 5 : SEGI F15 library (1:2)

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.81	95.42	489	1,140.8	1,181.53	3,728.7	98	11.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : SEGI F16 library (1:2)

Number of peaks found: 2 Corr. Area 1: 493.5
 Noise: 0.1

Peak table for sample 6 : SEGI F16 library (1:2)

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	489	480.42	1,487.2		83.08
3	503	228.26	687.8		83.80
4	10,380	75.00	10.9	Upper Marker	113.00

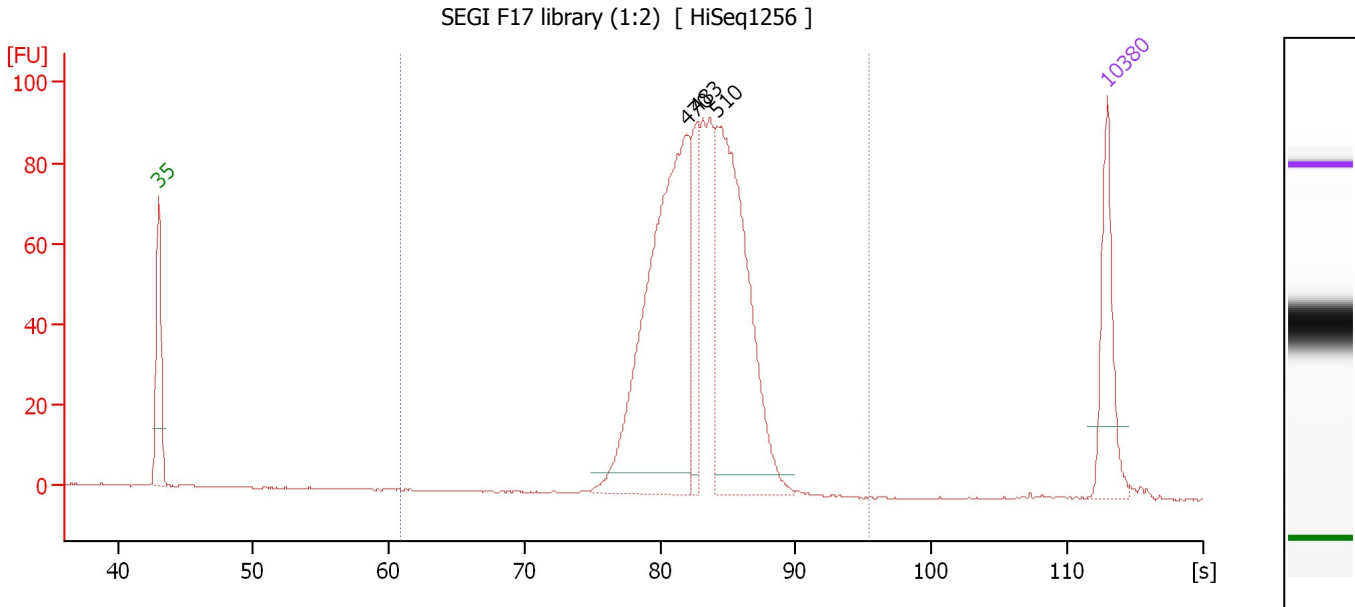
Region table for sample 6 : SEGI F16 library (1:2)

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.81	95.42	480	493.5	719.77	2,290.4	98	9.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : SEGI F17 library (1:2)

Number of peaks found: 3 Corr. Area 1: 909.2
 Noise: 0.1

Peak table for sample 7 : SEGI F17 library (1:2)

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	470	494.37	1,592.7		82.00
3	483	97.67	306.7		82.69
4	510	396.66	1,177.3		84.16
5	10,380	75.00	10.9	Upper Marker	113.00

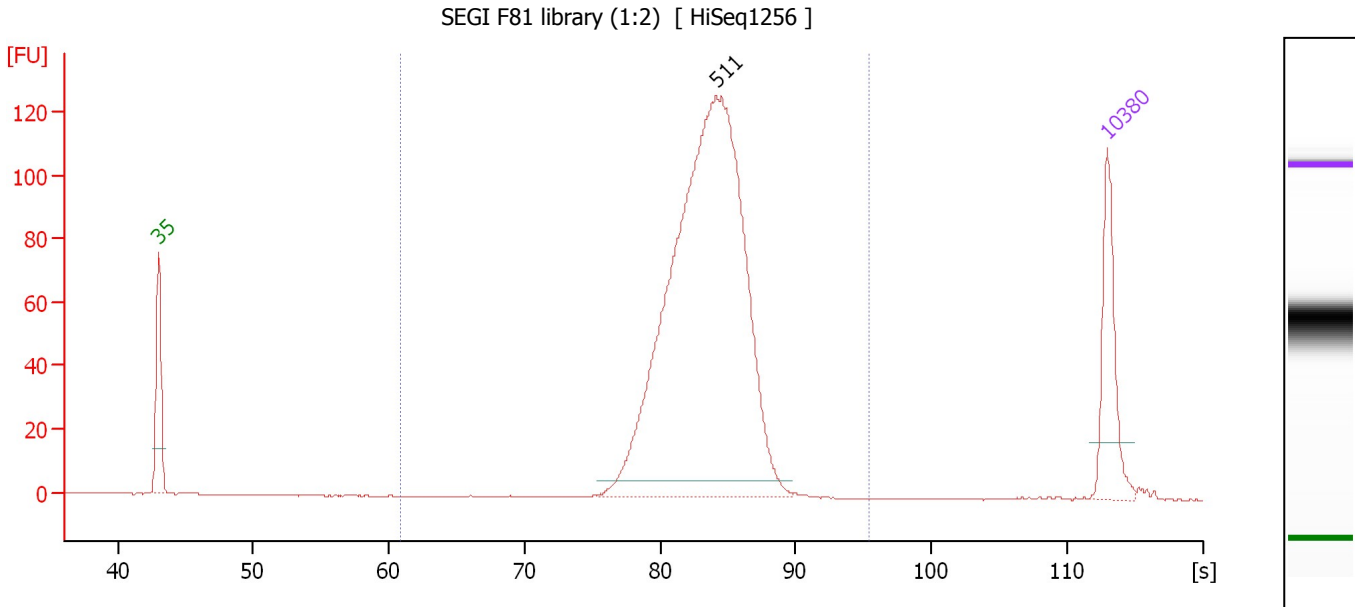
Region table for sample 7 : SEGI F17 library (1:2)

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.81	95.42	486	909.2	1,129.69	3,564.8	99	10.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : SEGI F81 library (1:2)

Number of peaks found: 1 Corr. Area 1: 977.8
 Noise: 0.1

Peak table for sample 8 : SEGI F81 library (1:2)

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	511	973.34	2,888.6		84.17
3	10,380	75.00	10.9	Upper Marker	113.00

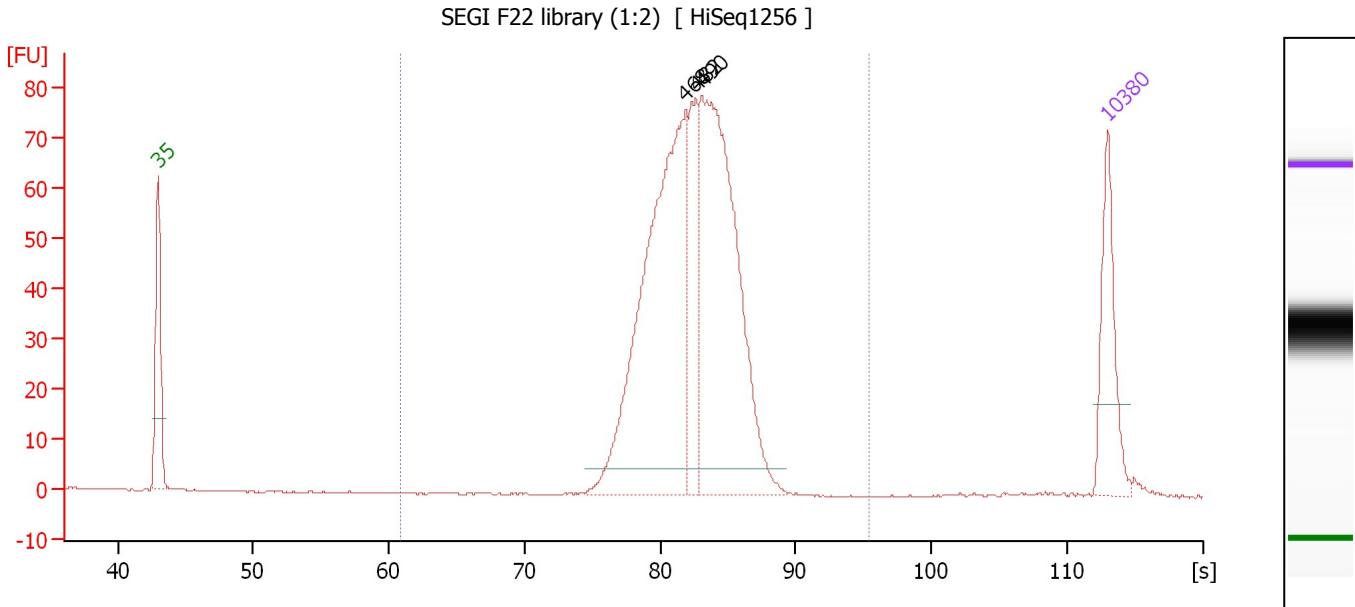
Region table for sample 8 : SEGI F81 library (1:2)

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.81	95.42	496	977.8	975.87	3,010.2	100	9.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : SEGI F22 library (1:2)

Number of peaks found: 3 Corr. Area 1: 736.7
 Noise: 0.1

Peak table for sample 9 : SEGI F22 library (1:2)

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	468	487.56	1,578.6		81.87
3	482	112.07	352.2		82.67
4	490	464.36	1,435.5		83.11
5	10,380	75.00	10.9	Upper Marker	113.00

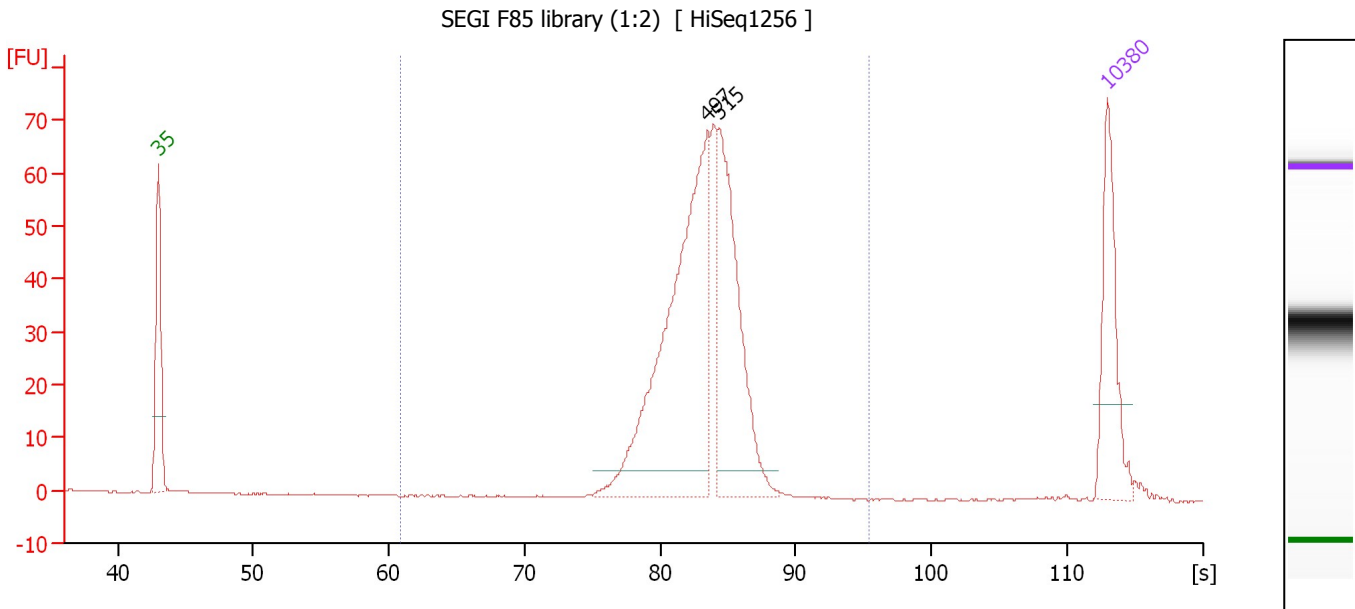
Region table for sample 9 : SEGI F22 library (1:2)

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.81	95.42	477	736.7	1,072.80	3,449.1	99	10.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : SEGI F85 library (1:2)

Number of peaks found: 2 Corr. Area 1: 485.4
 Noise: 0.1

Peak table for sample 10 : SEGI F85 library (1:2)

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	497	381.50	1,163.3		83.49
3	515	207.63	610.6		84.39
4	10,380	75.00	10.9	Upper Marker	113.00

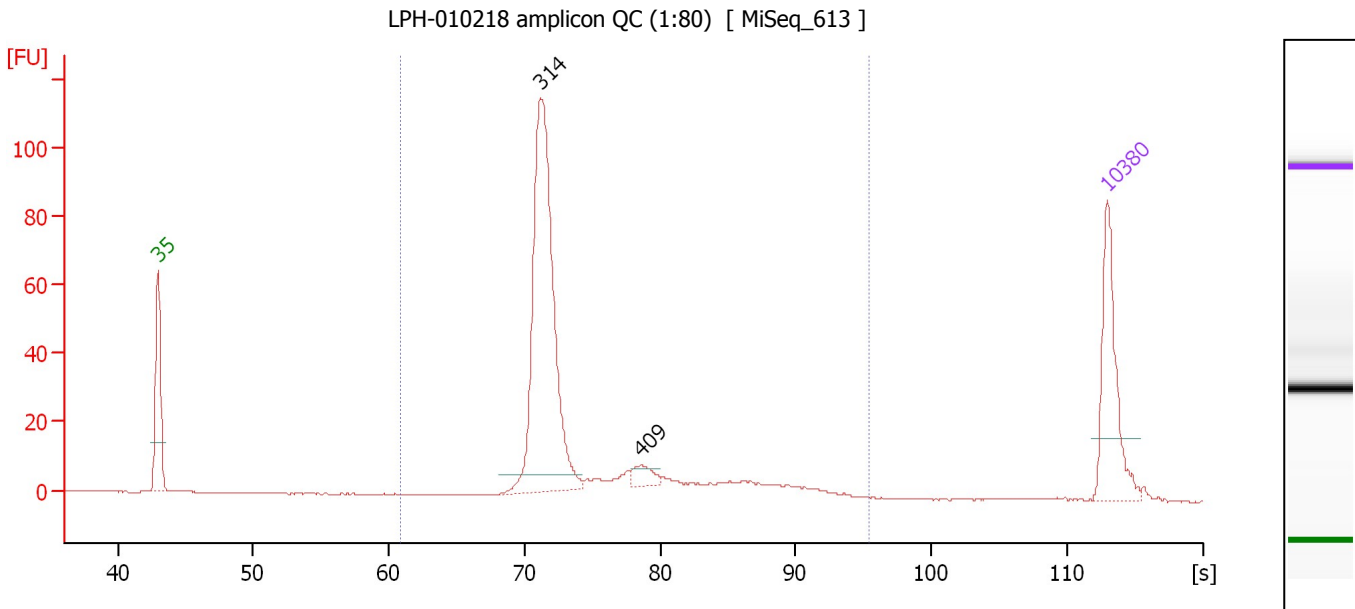
Region table for sample 10 : SEGI F85 library (1:2)

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.81	95.42	489	485.4	662.55	2,070.4	99	9.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
 Modified: 1/8/2018 4:45:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : LPH-010218 amplicon QC (1:80)

Number of peaks found: 2 Corr. Area 1: 394.3
 Noise: 0.1

Peak table for sample 11 : LPH-010218 amplicon QC (1:80)

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	314	371.26	1,793.7		71.22
3	409	15.77	58.4		78.58
4	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : LPH-010218 amplicon QC (1:80)

From [s]	To [s]	Average Size [bp]	Corr. Area	Conc. [pg/μl]	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.81	95.42	365	394.3	489.62	2,163.8	99	26.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-01-08\2018-01-08_003.xad

Created: 1/8/2018 4:04:09 PM
Modified: 1/8/2018 4:45:27 PM

Gel Image

