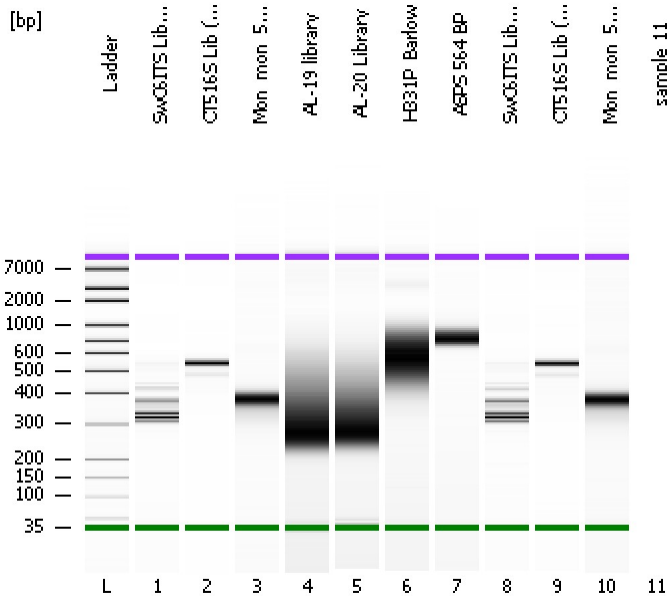


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 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

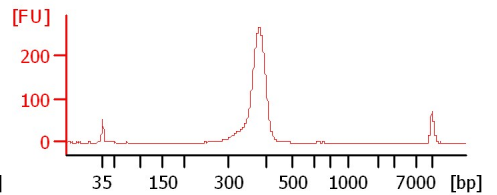
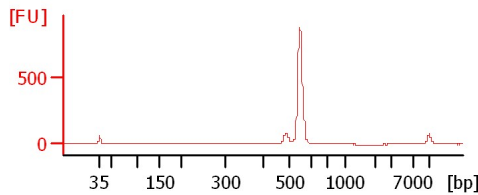
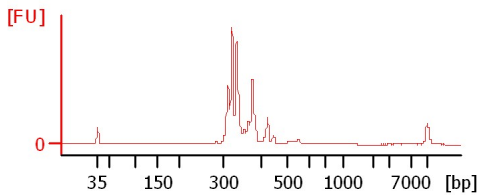
Chip Information:

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

SwC6ITS Lib (6 cyc PCR) (1:10)

CT516S Lib (6 cyc PCR) (1:5)

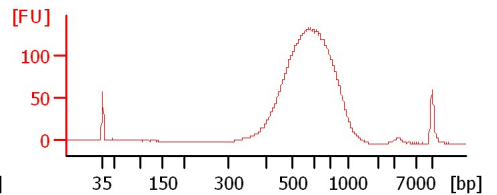
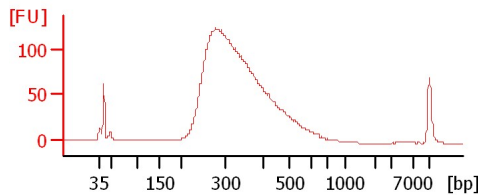
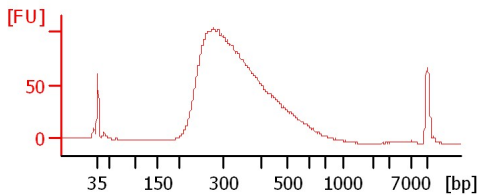
Mon_mon_536 WGS Library (1:10)



AL-19 library

AL-20 Library

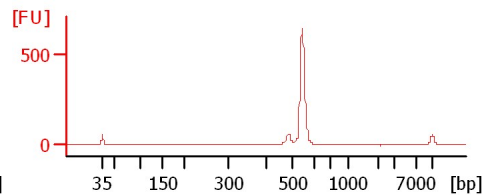
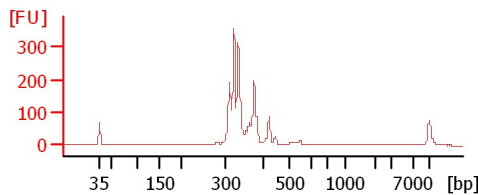
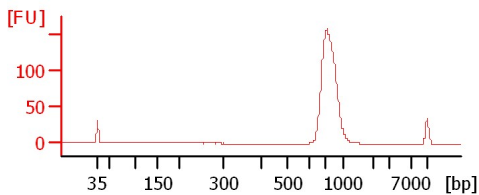
H331P_Barlow



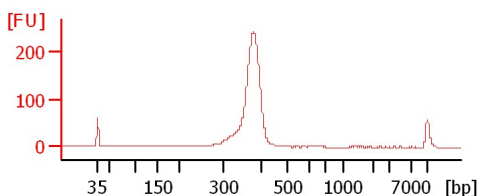
ASPS 564 BP

SwC6ITS Lib (6 cyc PCR)

CT516S Lib (6 cyc PCR)



Mon_mon_536 WGS Library



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SwC6ITS Lib (6 cyc PCR) (1:10)		<input type="checkbox"/>	✓			
CT516S Lib (6 cyc PCR) (1:5)		<input type="checkbox"/>	✓			
Mon_mon_536 WGS Library		<input type="checkbox"/>	✓			
AL-19 library		<input type="checkbox"/>	✓			
AL-20 Library		<input type="checkbox"/>	✓			
H331P_Barlow		<input type="checkbox"/>	✓			
ASPS 564 BP		<input type="checkbox"/>	✓			
SwC6ITS Lib (6 cyc PCR)		<input type="checkbox"/>	✓			
CT516S Lib (6 cyc PCR)		<input type="checkbox"/>	✓			
Mon_mon_536 WGS Library		<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\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
Modified: 2/16/2016 4:58:01 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

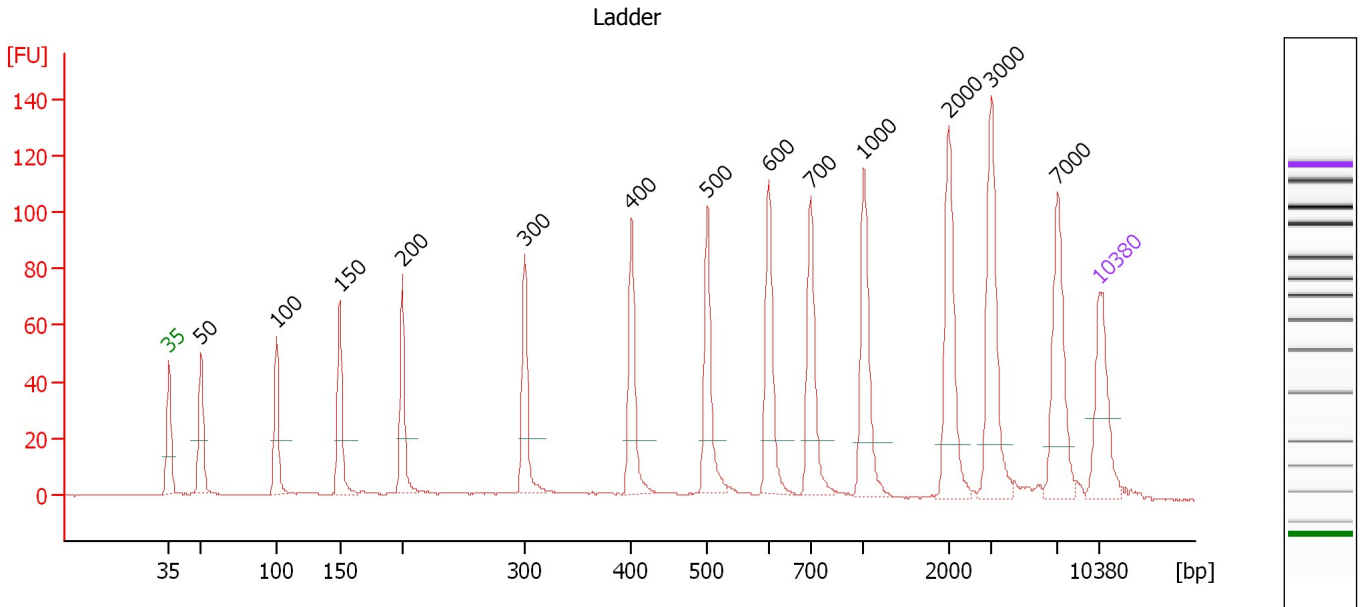
Ladder

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\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

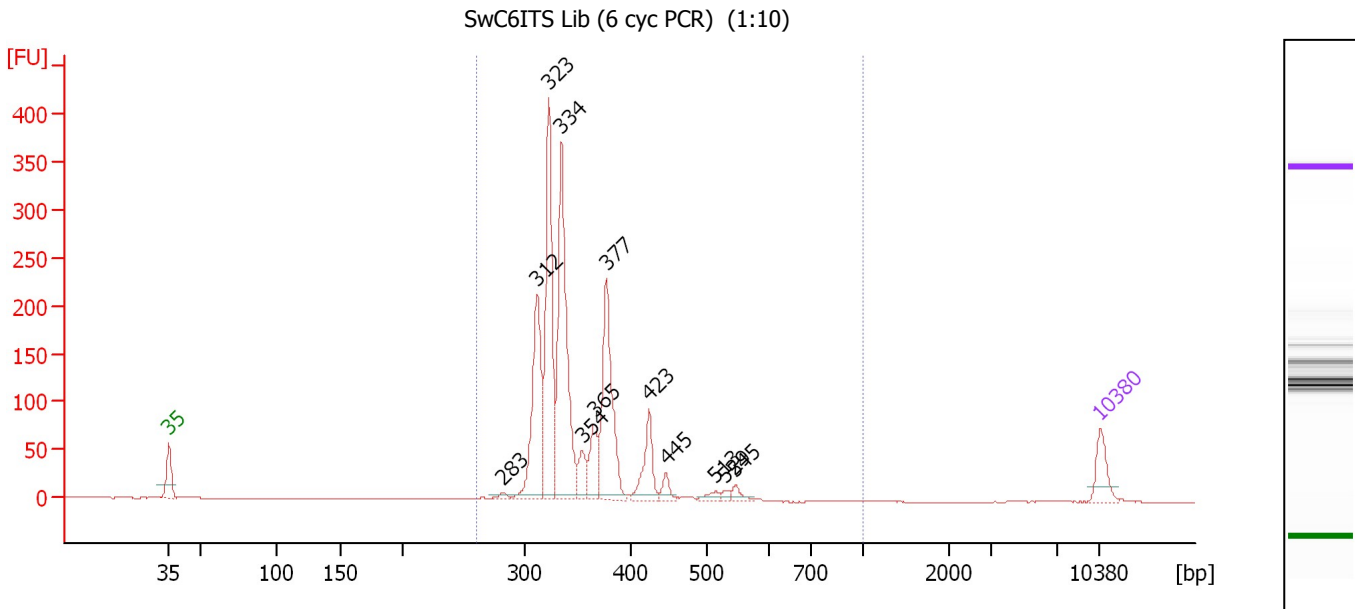
Peak table for Ladder

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	45.44
3	100	150.00	2,272.7	Ladder Peak	51.09
4	150	150.00	1,515.2	Ladder Peak	55.87
5	200	150.00	1,136.4	Ladder Peak	60.56
6	300	150.00	757.6	Ladder Peak	69.75
7	400	150.00	568.2	Ladder Peak	77.78
8	500	150.00	454.5	Ladder Peak	83.48
9	600	150.00	378.8	Ladder Peak	88.12
10	700	150.00	324.7	Ladder Peak	91.28
11	1,000	150.00	227.3	Ladder Peak	95.25
12	2,000	150.00	113.6	Ladder Peak	101.66
13	3,000	150.00	75.8	Ladder Peak	104.87
14	7,000	150.00	32.5	Ladder Peak	109.84
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : SwC6ITS Lib (6 cyc PCR) (1:10)

Number of peaks found: 12 Corr. Area 1: 1,512.2
 Noise: 0.2

Peak table for sample 1 : SwC6ITS Lib (6 cyc PCR) (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	283	14.58	78.2		68.15
3	312	450.50	2,187.8		70.71
4	323	607.71	2,852.5		71.58
5	334	714.67	3,240.0		72.50
6	354	82.50	353.1		74.09
7	365	131.61	546.6		74.96
8	377	435.99	1,752.9		75.92
9	423	152.16	544.7		79.11
10	445	39.59	134.7		80.37
11	513	22.44	66.3		84.08
12	529	14.36	41.2		84.81
13	545	25.66	71.3		85.58
14	10,380	75.00	10.9	Upper Marker	113.00

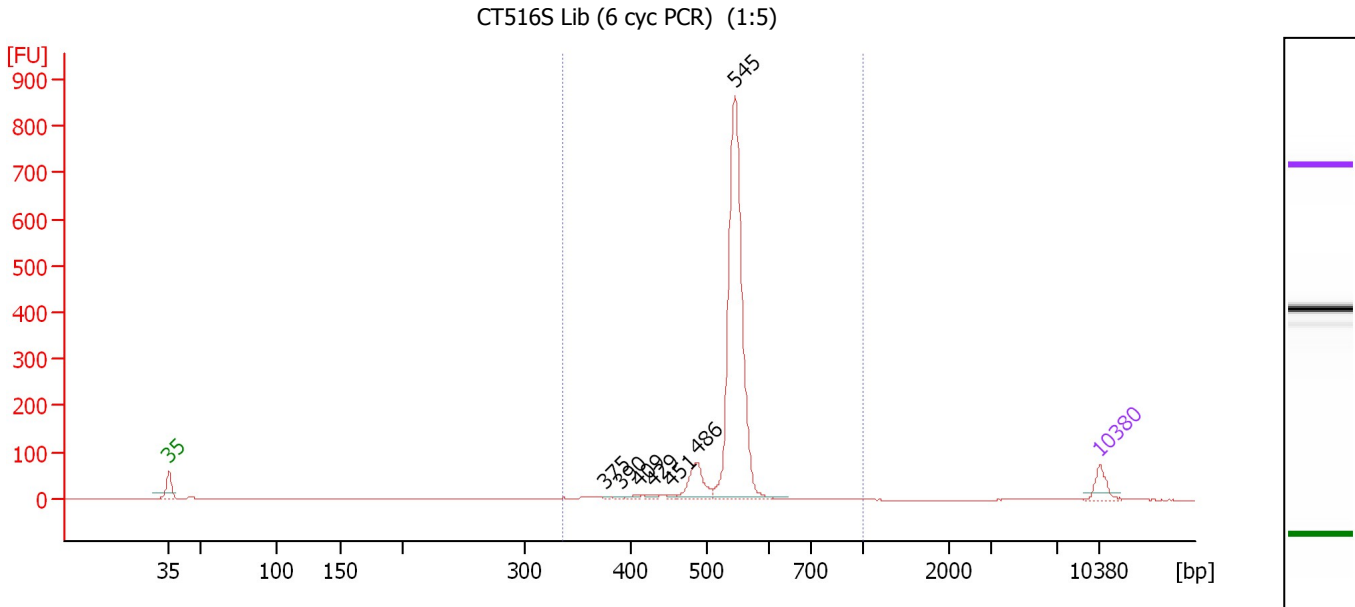
Region table for sample 1 : SwC6ITS Lib (6 cyc PCR) (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
261	1,000	352	1,512.2	11,793.7	2,698.43	99	13.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : CT516S Lib (6 cyc PCR) (1:5)

Number of peaks found: 7 Corr. Area 1: 1,449.2
 Noise: 0.2

Peak table for sample 2 : CT516S Lib (6 cyc PCR) (1:5)

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	375	7.05	28.5		75.81
3	390	11.82	45.9		77.02
4	409	19.57	72.4		78.31
5	429	23.20	82.0		79.42
6	451	16.26	54.6		80.71
7	486	210.02	654.7		82.68
8	545	1,837.11	5,107.3		85.57
9	10,380	75.00	10.9	Upper Marker	113.00

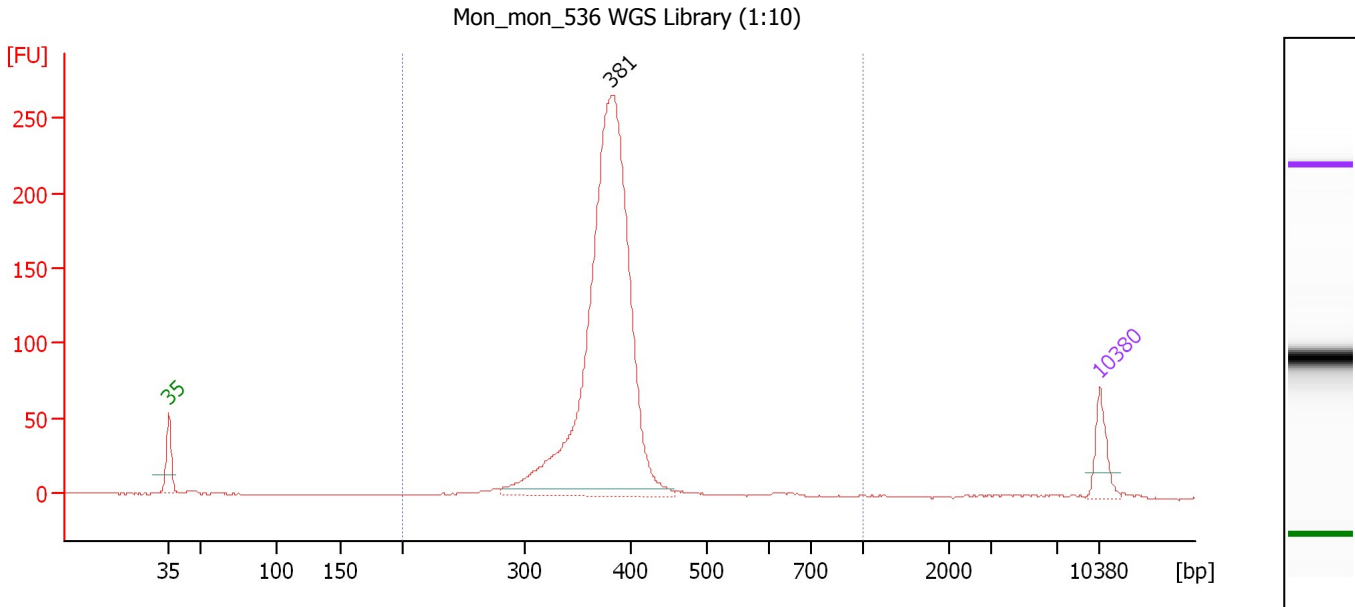
Region table for sample 2 : CT516S Lib (6 cyc PCR) (1:5)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
336	1,000	535	1,449.2	6,282.6	2,197.72	96	8.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Mon_mon_536 WGS Library (1:10)

Number of peaks found: 1 Corr. Area 1: 1,329.3
 Noise: 0.4

Peak table for sample 3 : Mon_mon_536 WGS Library (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	381	2,172.08	8,632.1		76.28
3	10,380	75.00	10.9	Upper Marker	113.00

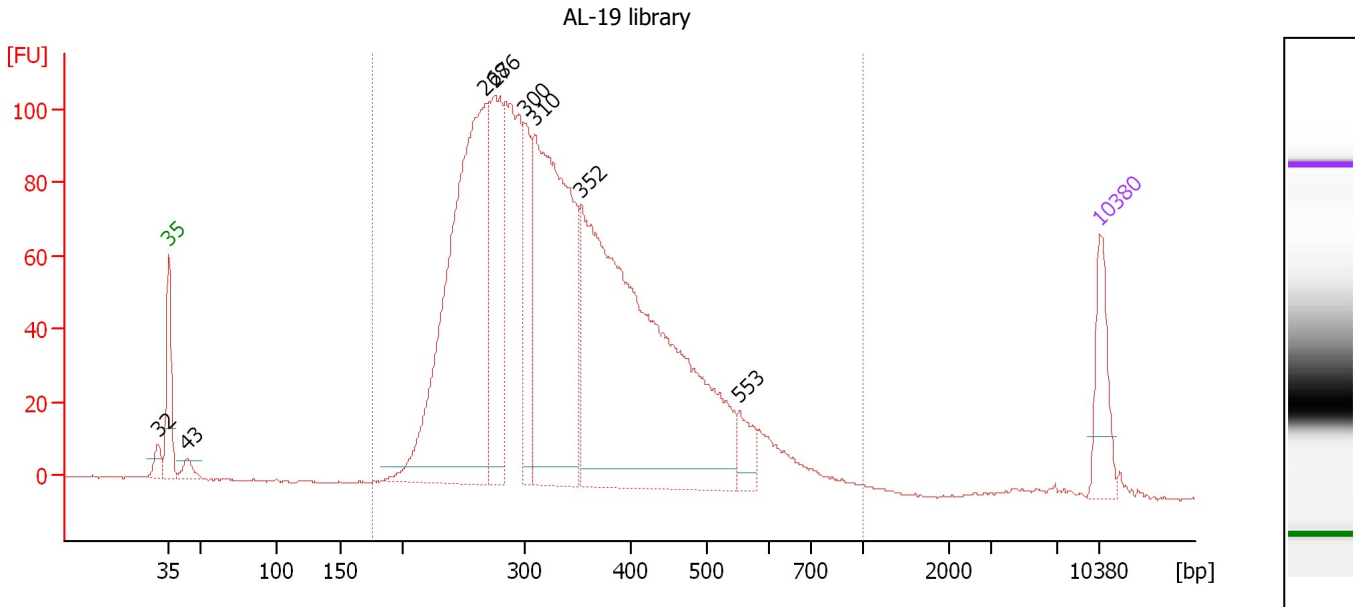
Region table for sample 3 : Mon_mon_536 WGS Library (1:10)

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	379	1,329.3	9,280.0	2,291.95	97	12.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : AL-19 library

Number of peaks found: 8 Corr. Area 1: 2,236.1
 Noise: 0.3

Peak table for sample 4 : AL-19 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.16
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	27.69	965.2		44.38
4	268	981.27	5,554.5		66.78
5	276	321.65	1,767.6		67.51
6	300	158.99	803.5		69.73
7	310	752.16	3,681.0		70.52
8	352	1,212.62	5,212.8		73.96
9	553	47.01	128.9		85.93
10	10,380	75.00	10.9	Upper Marker	113.00

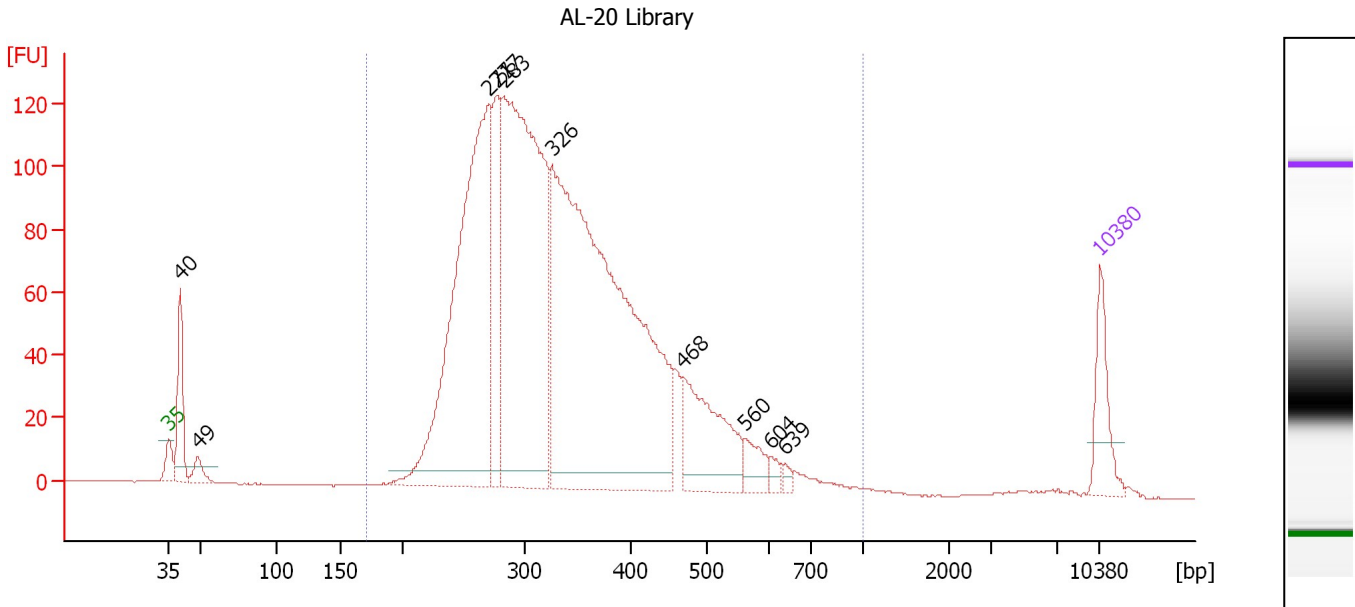
Region table for sample 4 : AL-19 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
176	1,000	348	2,236.1	18,503.7	3,867.14	98	29.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AL-20 Library

Number of peaks found: 10 Corr. Area 1: 2,427.0
 Noise: 0.2

Peak table for sample 5 : AL-20 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	40	155.31	5,820.1		43.88
3	49	37.83	1,179.8		45.21
4	271	1,032.63	5,768.7		67.10
5	277	236.82	1,297.4		67.59
6	283	1,148.39	6,148.9		68.18
7	326	1,593.99	7,414.5		71.81
8	468	237.88	770.8		81.63
9	560	47.96	129.8		86.25
10	604	15.48	38.8		88.26
11	639	10.79	25.6		89.34
12	10,380	75.00	10.9	Upper Marker	113.00

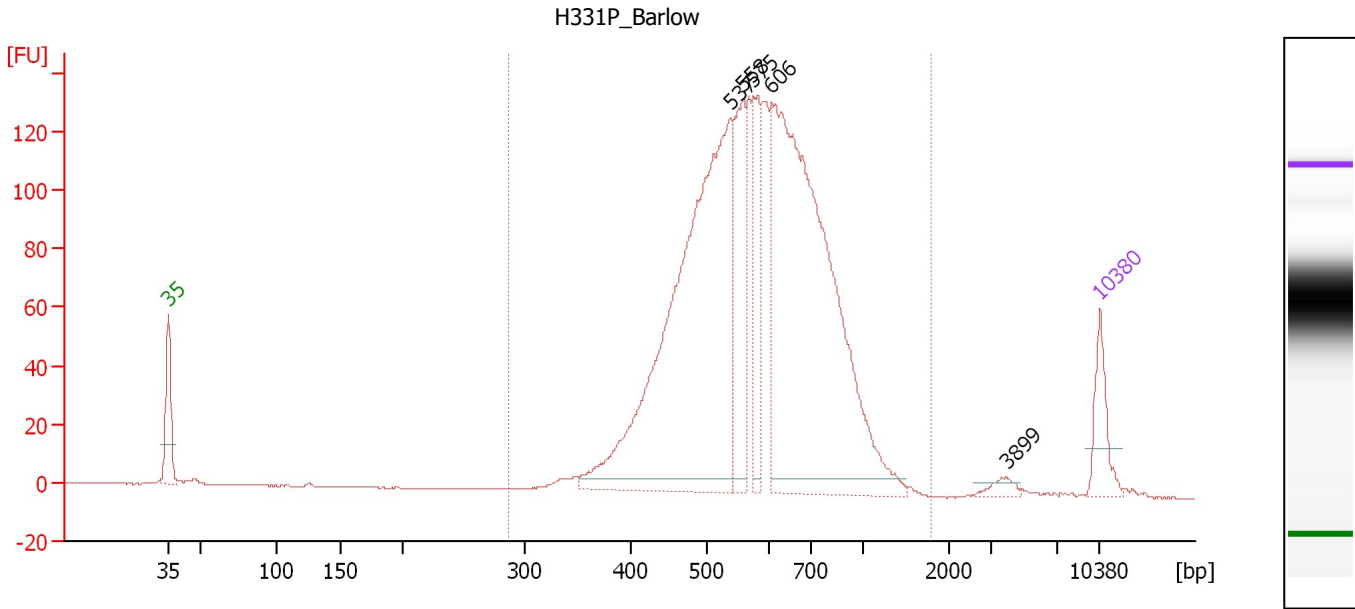
Region table for sample 5 : AL-20 Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
171	1,000	345	2,427.0	20,305.1	4,256.19	96	27.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : H331P Barlow

Number of peaks found: 5 Corr. Area 1: 1,941.5
 Noise: 0.2

Peak table for sample 6 : H331P Barlow

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	537	1,347.17	3,801.8		85.19
3	558	257.79	699.4		86.19
4	575	176.62	465.7		86.94
5	606	1,324.63	3,314.0		88.30
6	3,899	19.80	7.7		105.98
7	10,380	75.00	10.9	Upper Marker	113.00

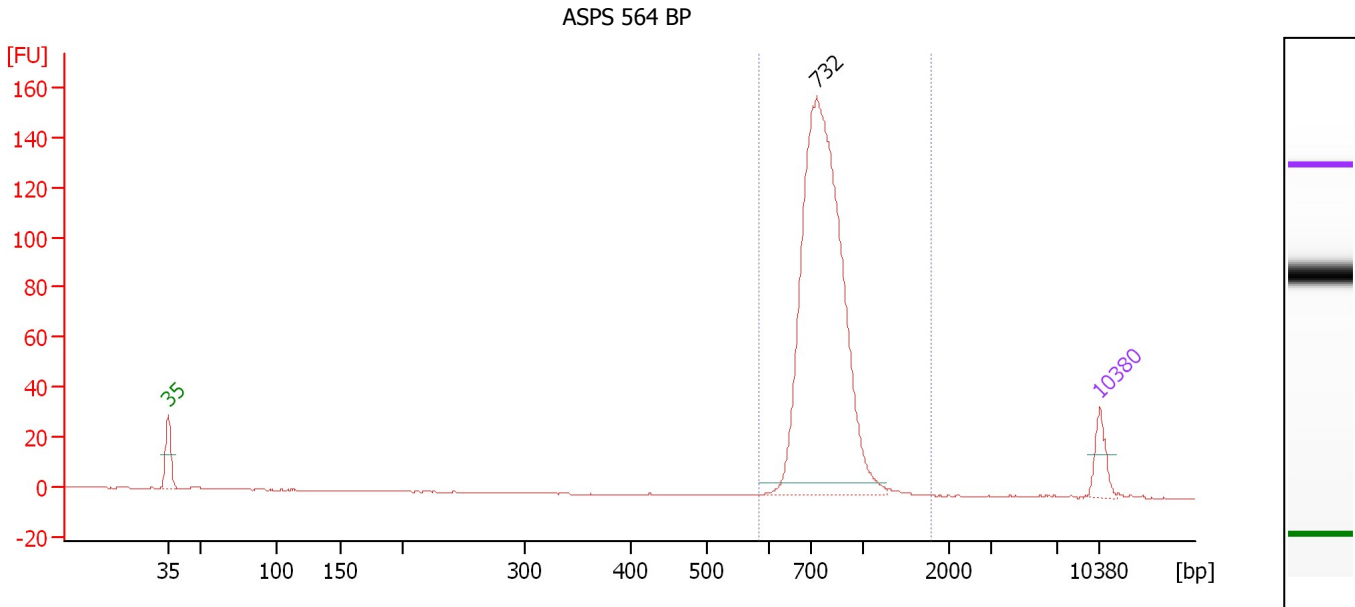
Region table for sample 6 : H331P Barlow

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
287	1,788	605	1,941.5	9,350.6	3,480.69	99	25.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : ASPS 564 BP

Number of peaks found: 1 Corr. Area 1: 612.5
 Noise: 0.2

Peak table for sample 7 : ASPS 564 BP

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	732	2,064.57	4,272.9		91.70
3	10,380	75.00	10.9	Upper Marker	113.00

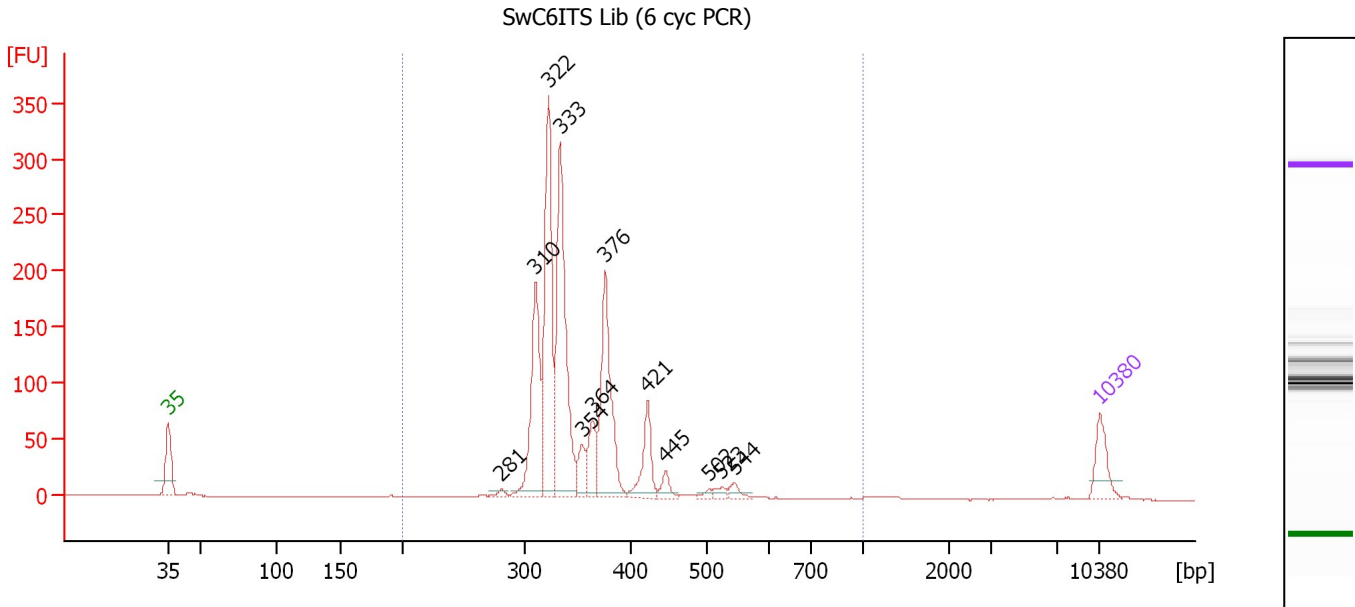
Region table for sample 7 : ASPS 564 BP

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
584	1,780	784	612.5	3,945.3	2,012.52	99	14.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : SwC6ITS Lib (6 cyc PCR)

Number of peaks found: 12 Corr. Area 1: 1,335.2
 Noise: 0.2

Peak table for sample 8 : SwC6ITS Lib (6 cyc PCR)

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	281	14.86	80.1		68.02
3	310	384.23	1,876.4		70.57
4	322	512.42	2,408.7		71.54
5	333	602.16	2,738.8		72.41
6	354	66.63	285.1		74.09
7	364	106.30	442.9		74.86
8	376	373.78	1,507.5		75.83
9	421	130.21	468.3		79.00
10	445	34.13	116.3		80.32
11	502	12.06	36.4		83.59
12	523	17.55	50.8		84.56
13	544	20.87	58.1		85.53
14	10,380	75.00	10.9	Upper Marker	113.00

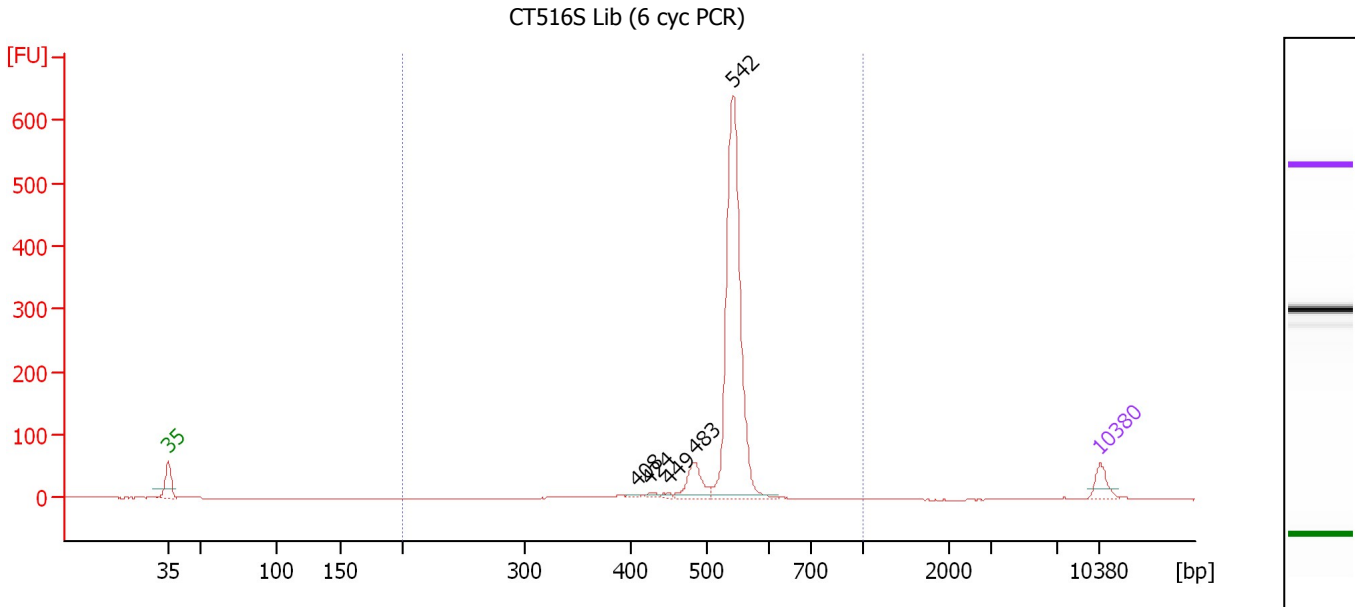
Region table for sample 8 : SwC6ITS Lib (6 cyc PCR)

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	352	1,335.2	10,031.9	2,289.79	99	14.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : CT516S Lib (6 cyc PCR)

Number of peaks found: 5 Corr. Area 1: 1,070.6
 Noise: 0.2

Peak table for sample 9 : CT516S Lib (6 cyc PCR)

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	408	13.69	50.8		78.26
3	424	18.74	67.0		79.13
4	449	13.54	45.7		80.56
5	483	181.44	569.2		82.51
6	542	1,695.14	4,738.2		85.43
7	10,380	75.00	10.9	Upper Marker	113.00

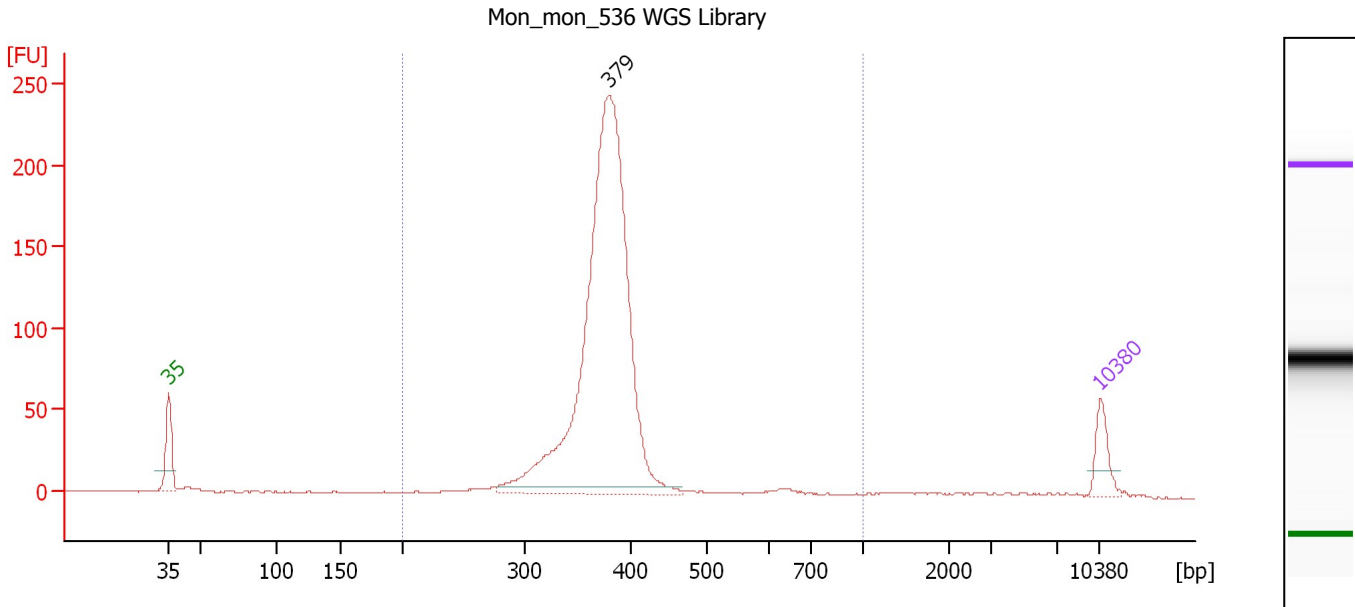
Region table for sample 9 : CT516S Lib (6 cyc PCR)

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	532	1,070.6	5,939.9	2,059.15	96	8.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Mon_mon_536 WGS Library

Number of peaks found: 1 Corr. Area 1: 1,234.0
 Noise: 0.4

Peak table for sample 10 : Mon_mon_536 WGS 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	379	2,227.63	8,906.6		76.09
3	10,380	75.00	10.9	Upper Marker	113.00

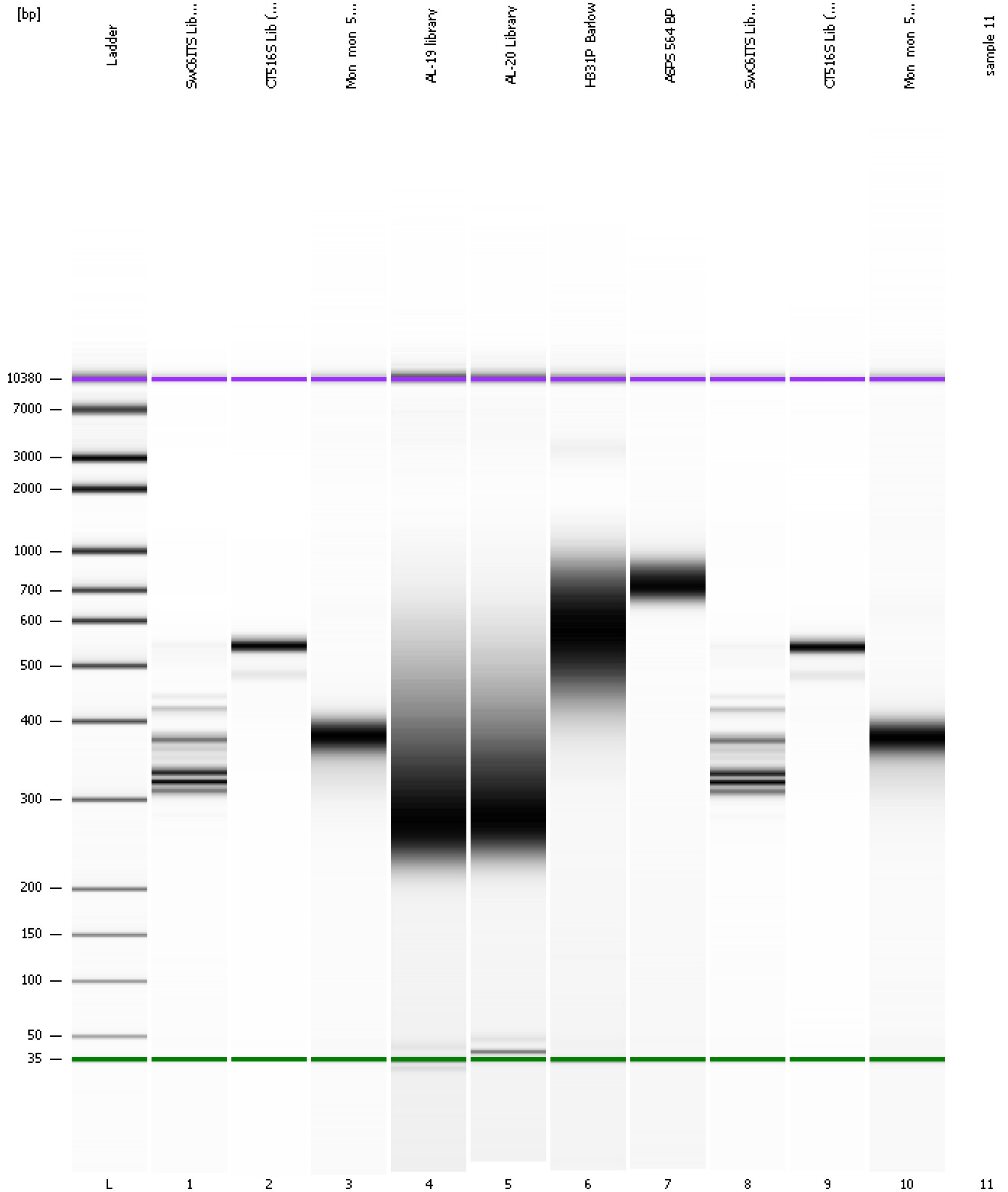
Region table for sample 10 : Mon_mon_536 WGS Library

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	379	1,234.0	9,721.0	2,383.62	95	15.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
Modified: 2/16/2016 4:58:01 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
Modified: 2/16/2016 4:58:01 PM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad

Created: 2/16/2016 4:19:34 PM
 Modified: 2/16/2016 4:58:01 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		2/16/2016 4:58:00 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-02-16\2016-02-16_002.xad)		Instrument	Run		2/16/2016 4:19:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/16/2016 4:19:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/16/2016 4:19:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/16/2016 4:19:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/16/2016 4:19:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/16/2016 4:19:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/16/2016 4:19:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1