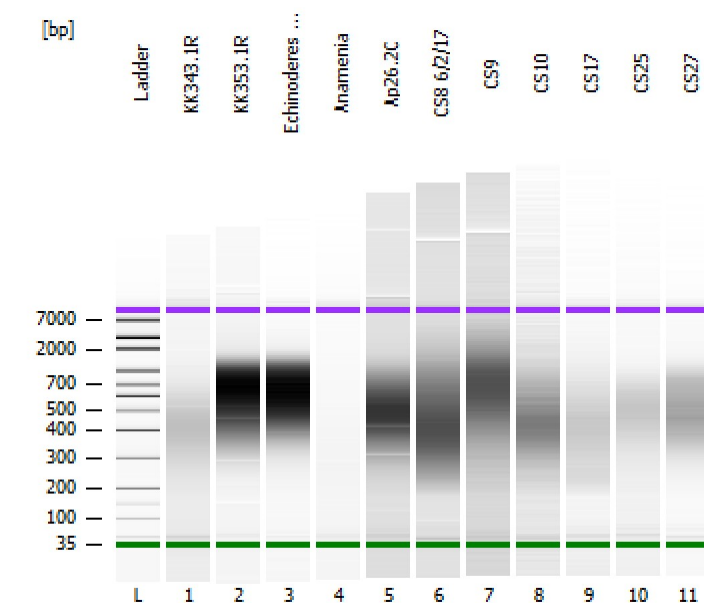


Assay Class: High Sensitivity DNA Assay
Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
Modified: 6/13/2017 3:03:15 PM

Electrophoresis File Run Summary



Instrument Information:

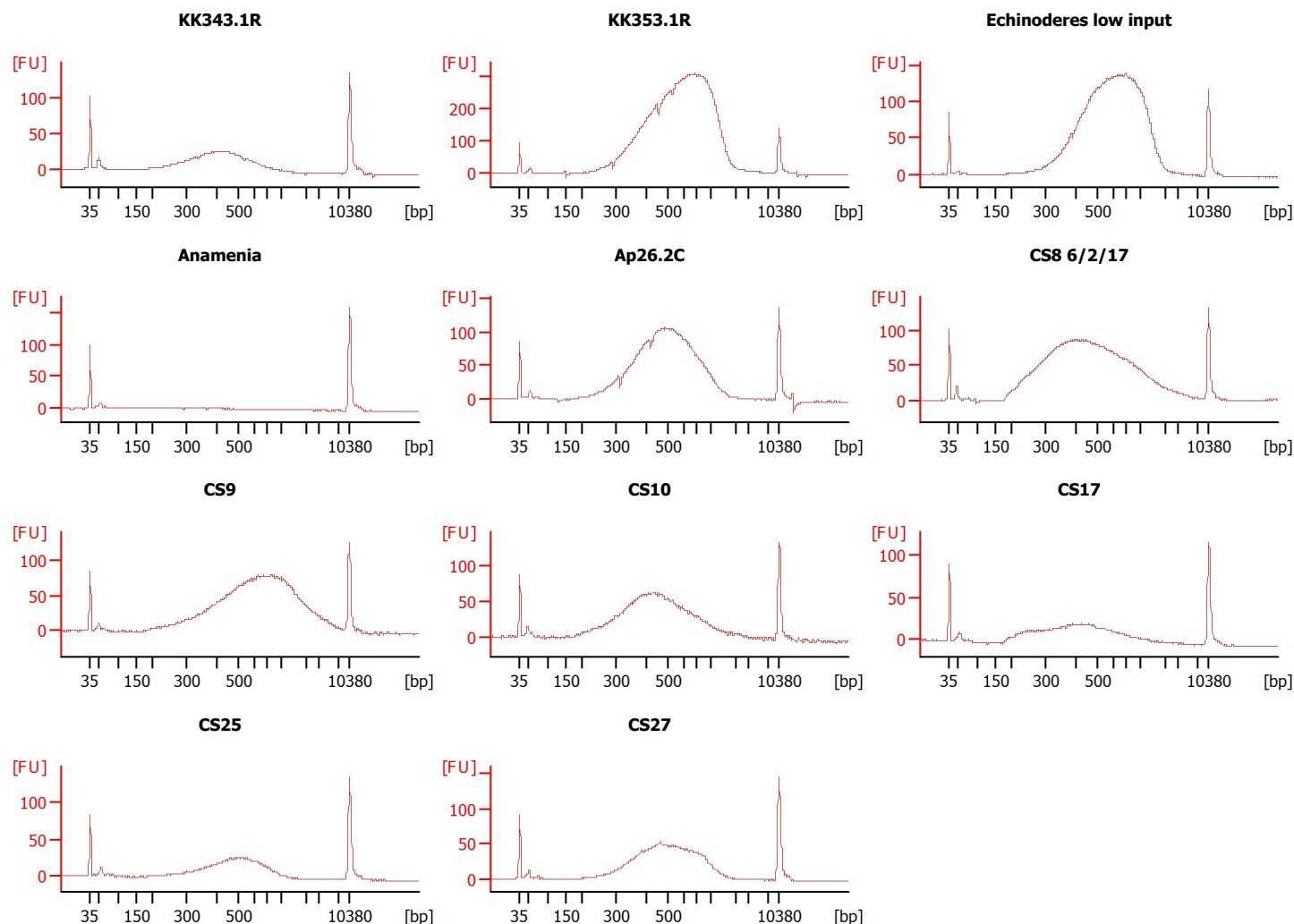
Instrument Name: 2100
Serial#: DE72901990
Firmware: C.01.069
Type: G2939A

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
Modified: 6/13/2017 3:03:15 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Sta tus	Observation	Result Label	Result Color
-------------	-------------------	-----------------	------------	-------------	-----------------	--------------

KK343.1R		☐	✓			
KK353.1R		☐	✓			
Echinoderes low input		☐	✓			
Anamenia		☐	✓			
Ap26.2C		☐	✓			
CS8 6/2/17		☐	✓			
CS9		☐	✓			
CS10		☐	✓			
CS17		☐	✓			
CS25		☐	✓			
CS27		☐	✓			
Ladder		☐	✓			

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
Modified: 6/13/2017 3:03:15 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

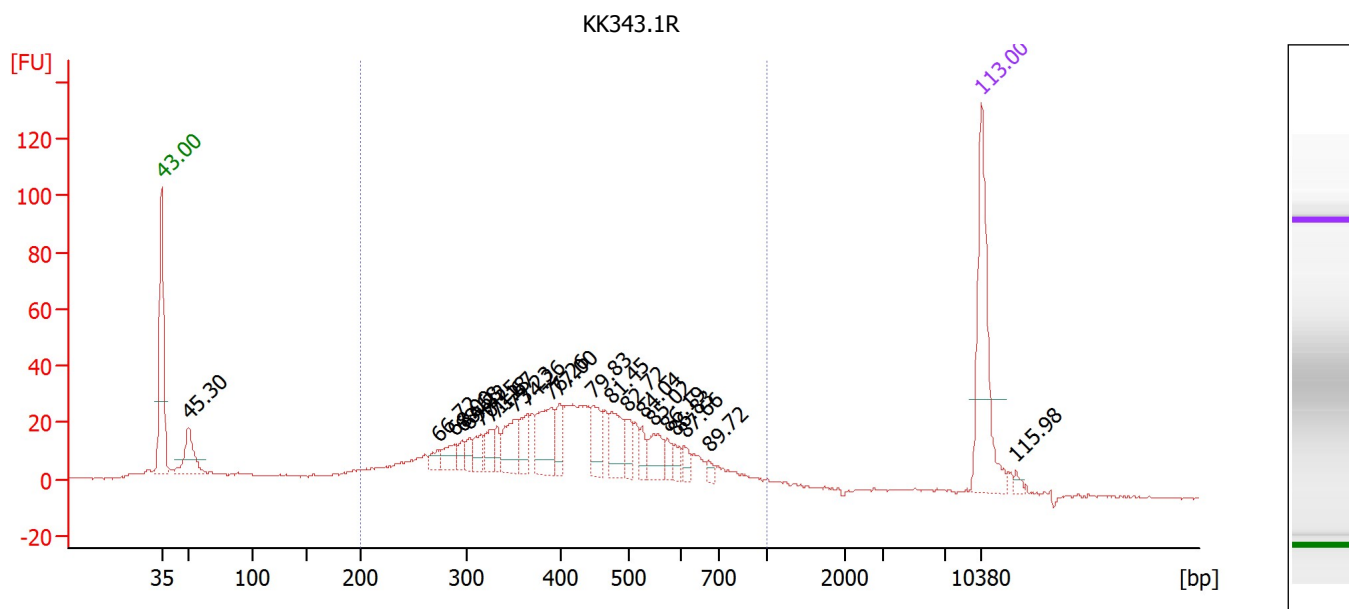
Ladder

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:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
Modified: 6/13/2017 3:03:15 PM

Electropherogram Summary



Assay Class: High Sensitivity DNA Assay
Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
Modified: 6/13/2017 3:03:15 PM

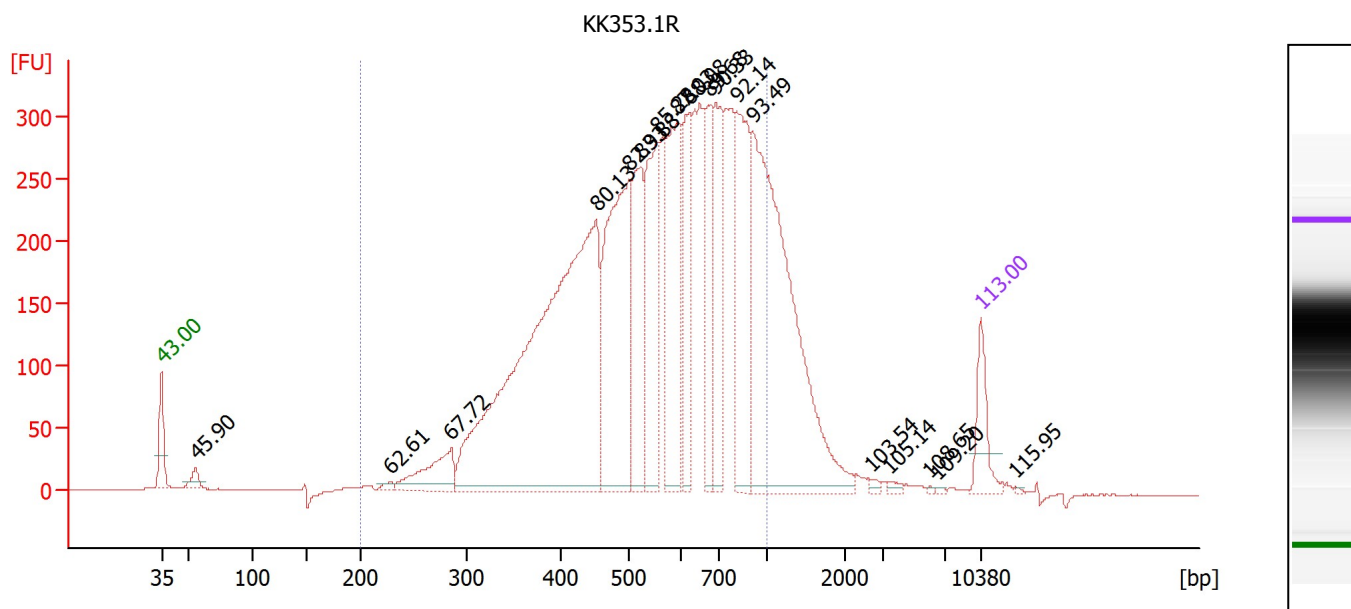
Electropherogram Summary Continued ...**... Region table for sample 1 :****KK343.1R**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	1,000	755.0	80	433	31.6	669.89	2,677.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
 Modified: 6/13/2017 3:03:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : KK353.1R

Number of peaks found: 18 Corr. Area 1: 6,689.6
 Noise: 0.4

Peak table for sample 2 : KK353.1R

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	56	33.49	908.7	
3	229	12.13	80.1	
4	286	138.15	732.0	
5	453	1,620.55	5,425.2	
6	501	607.32	1,835.6	
7	522	298.20	865.1	
8	553	325.92	892.7	
9	592	359.75	921.0	
10	621	218.42	532.8	
11	671	197.35	445.8	
12	691	268.15	588.1	
13	809	358.36	671.3	
14	907	929.15	1,552.8	
15	2,650	6.17	3.5	
16	3,335	7.29	3.3	
17	6,026	2.17	0.5	
18	6,449	2.99	0.7	
19	10,380	75.00	10.9	Upper Marker
20	13,614	0.00	0.0	

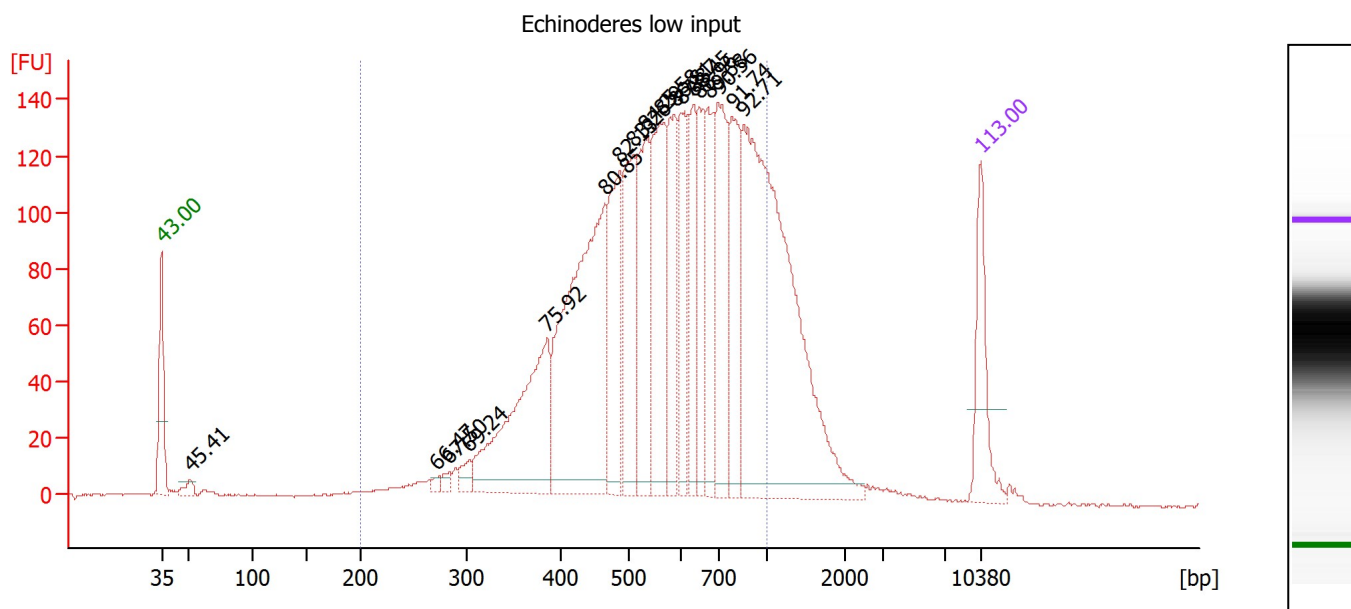
Region table for sample 2 : KK353.1R

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	6,689.6	87	577	30.7	5,638.54	17,014.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
 Modified: 6/13/2017 3:03:15 PM

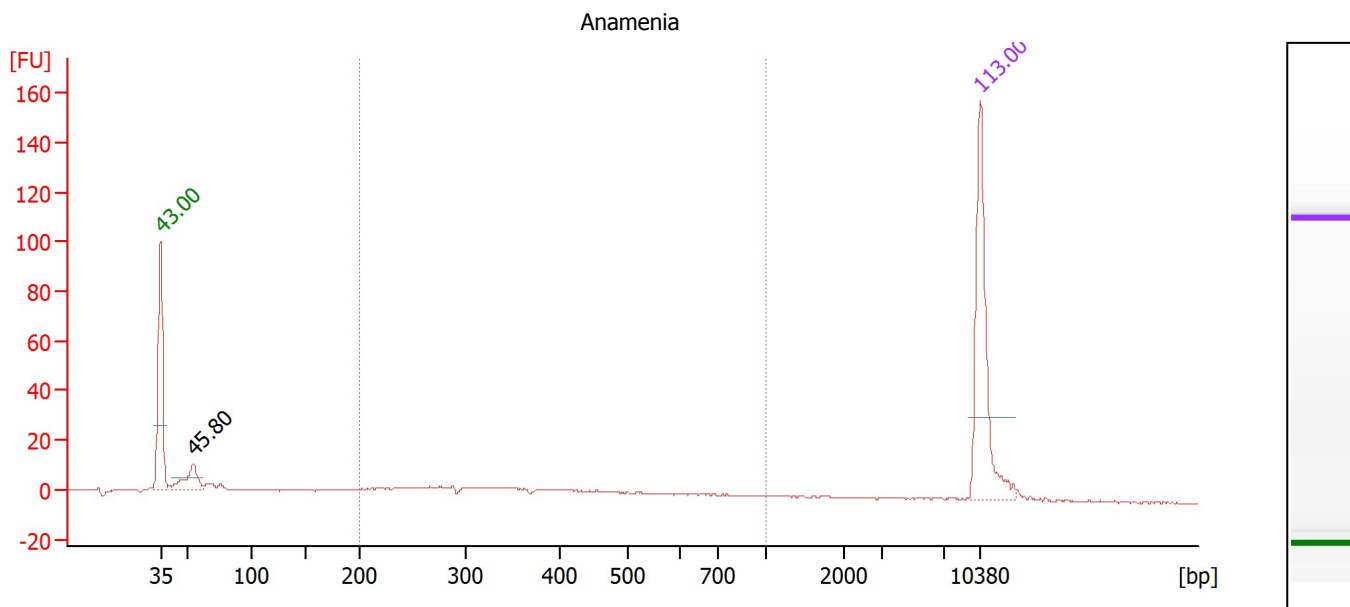
Electropherogram Summary Continued ...



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
 Modified: 6/13/2017 3:03:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Anamenia

Number of peaks found: 1 Corr. Area 1: 91.9
 Noise: 0.3

Peak table for sample 4 : Anamenia

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	28.69	792.0	
3	10,380	75.00	10.9	Upper Marker

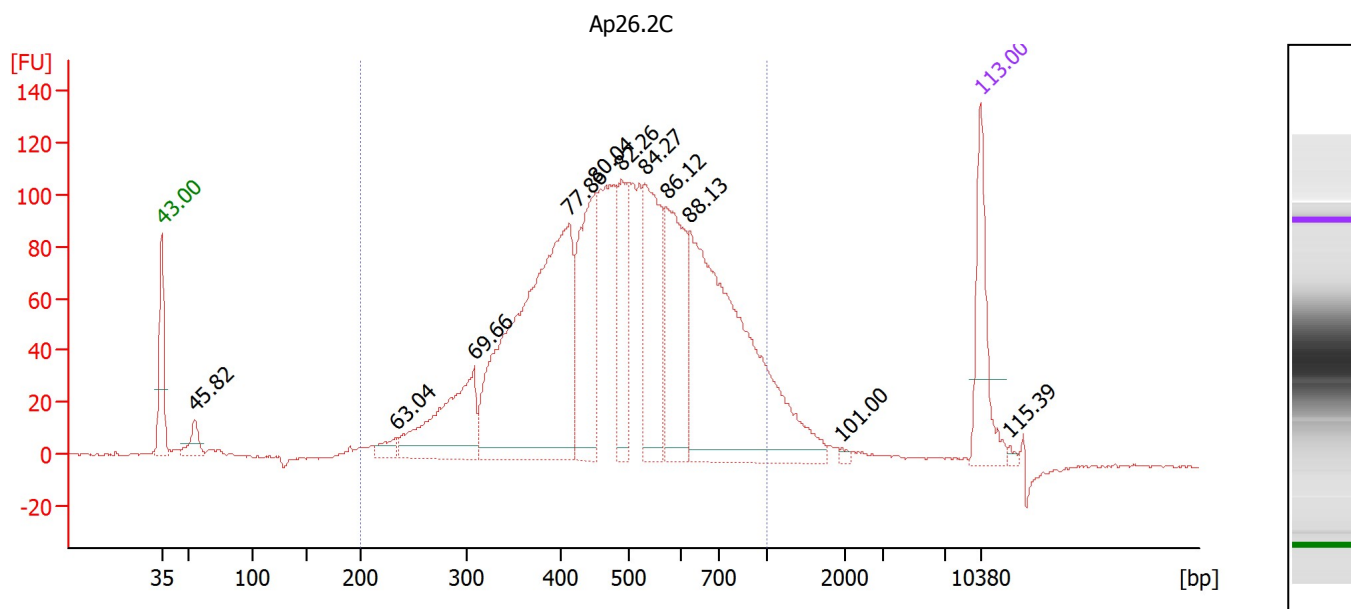
Region table for sample 4 : Anamenia

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	91.9	50	404	40.7	72.94	331.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
 Modified: 6/13/2017 3:03:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Ap26.2C

Number of peaks found: 11 Corr. Area 1: 2,476.3
 Noise: 0.4

Peak table for sample 5 : Ap26.2C

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	33.10	910.0	
3	234	18.89	122.3	
4	308	171.76	843.9	
5	413	544.56	1,995.5	
6	451	180.72	607.1	
7	490	112.04	346.8	
8	531	181.66	518.4	
9	572	160.35	425.0	
10	623	453.83	1,104.6	
11	1,942	2.99	2.3	
12	10,380	75.00	10.9	Upper Marker
13	12,998	0.00	0.0	

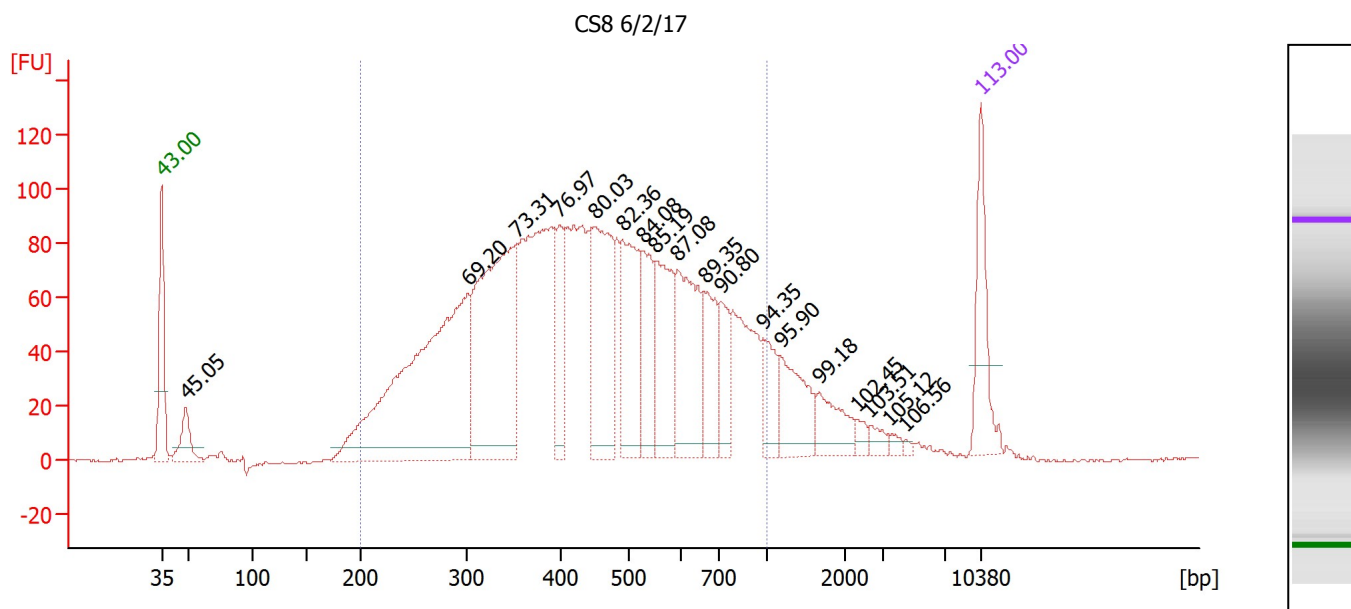
Region table for sample 5 : Ap26.2C

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,476.3	92	509	30.6	2,102.60	7,131.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
 Modified: 6/13/2017 3:03:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CS8 6/2/17

Number of peaks found: 18 Corr. Area 1: 2,668.7
 Noise: 0.4

Peak table for sample 6 : CS8 6/2/17

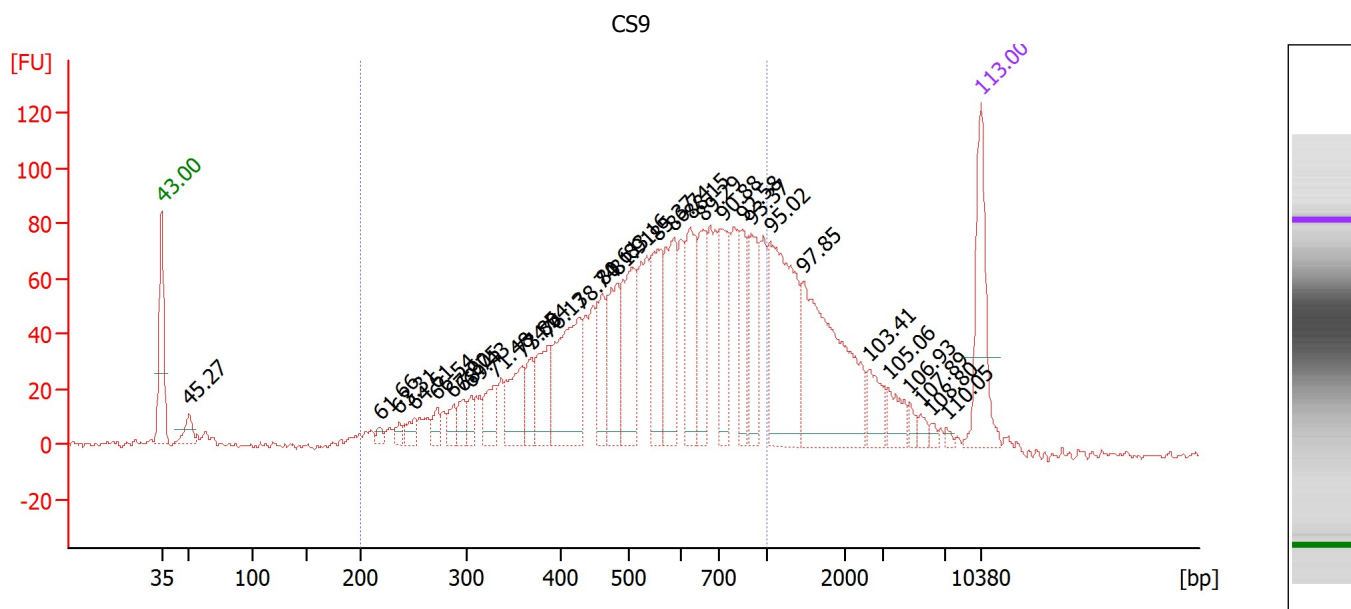
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	57.01	1,777.6	
3	303	600.91	3,008.1	
4	353	398.77	1,709.7	
5	399	84.46	321.0	
6	451	209.06	702.6	
7	491	149.24	460.4	
8	527	89.01	256.0	
9	551	140.69	386.8	
10	593	155.39	397.1	
11	660	80.56	184.8	
12	712	53.69	114.3	
13	969	49.95	78.1	
14	1,170	75.85	98.2	
15	1,666	45.90	41.7	
16	2,322	9.78	6.4	
17	2,639	10.66	6.1	
18	3,315	6.49	3.0	
19	4,423	2.60	0.9	
20	10,380	75.00	10.9	Upper Marker

Region table for sample 6 : CS8 6/2/17

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,668.7	90	464	36.7	2,750.31	10,722.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
Modified: 6/13/2017 3:03:15 PM

Electropherogram Summary Continued ...

Assay Class: High Sensitivity DNA Assay
Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
Modified: 6/13/2017 3:03:15 PM

Electropherogram Summary Continued ...**... Peak table for sample 7 : CS9**

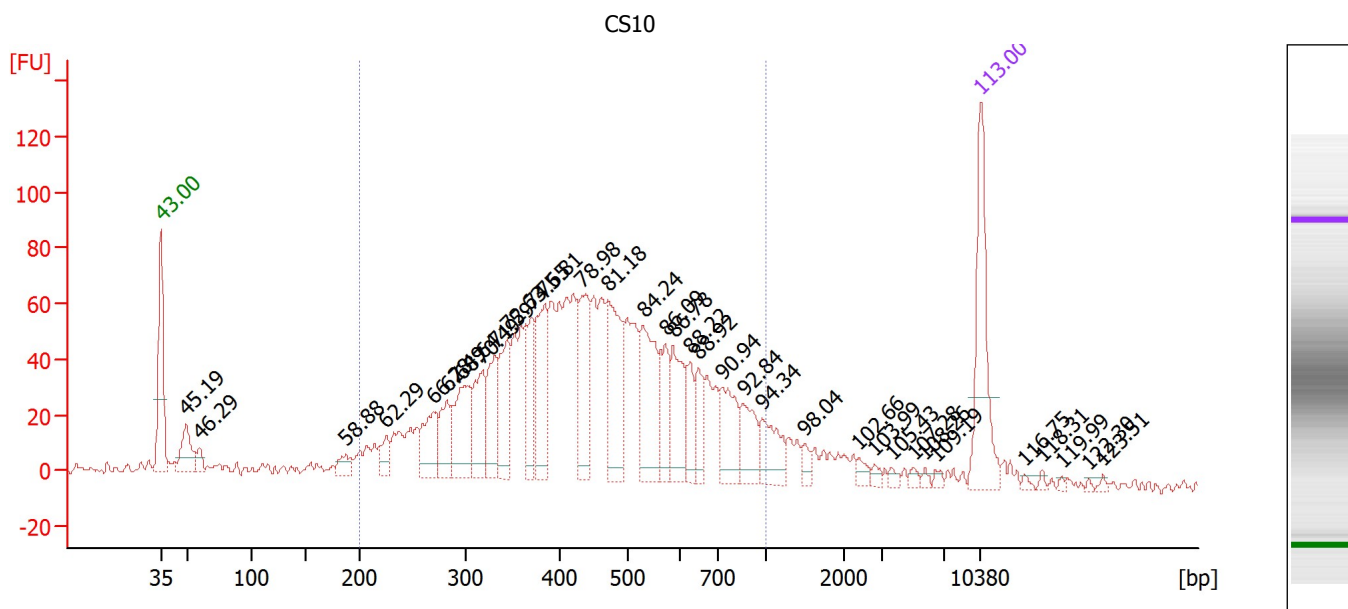
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,611	28.04	16.3	
28	3,269	22.21	10.3	
29	4,707	6.72	2.2	
30	5,448	7.51	2.1	
31	6,145	3.88	1.0	
32	7,149	3.06	0.6	
33	10,380	75.00	10.9	Upper Marker

Region table for sample 7 : CS9

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,726.0	75	568	32.8	1,657.37	5,241.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
Modified: 6/13/2017 3:03:15 PM

Electropherogram Summary Continued ...**Overall Results for sample 8 : CS10**

Number of peaks found: 34 Corr. Area 1: 1,756.3
Noise: 1.6

Peak table for sample 8 : CS10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	42.27	1,293.2	
3	59	12.04	307.0	
4	188	14.89	119.9	
5	226	19.66	132.0	
6	270	46.67	261.9	
7	283	38.59	206.3	
8	296	70.14	358.7	
9	319	56.10	266.8	
10	332	54.19	247.2	
11	345	55.80	245.0	
12	370	52.49	215.0	
13	384	73.60	290.3	
14	433	75.49	264.3	
15	471	89.46	287.9	
16	530	88.48	252.9	
17	571	34.53	91.6	
18	586	54.10	139.8	
19	625	26.67	64.6	
20	647	25.60	60.0	
21	722	47.65	100.0	
22	860	34.97	61.6	
23	969	33.50	52.4	
24	1,494	6.83	6.9	
25	2,385	5.88	3.7	
26	2,784	4.01	2.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
Modified: 6/13/2017 3:03:15 PM

Electropherogram Summary Continued ...**... Peak table for sample 8 : CS10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	3,558	3.71	1.6	
28	4,978	3.51	1.1	
29	5,732	2.57	0.7	
30	6,442	3.24	0.8	
31	10,380	75.00	10.9	Upper Marker
32	14,493	0.00	0.0	
33	16,201	0.00	0.0	
34	18,036	0.00	0.0	
35	20,567	0.00	0.0	
36	21,895	0.00	0.0	

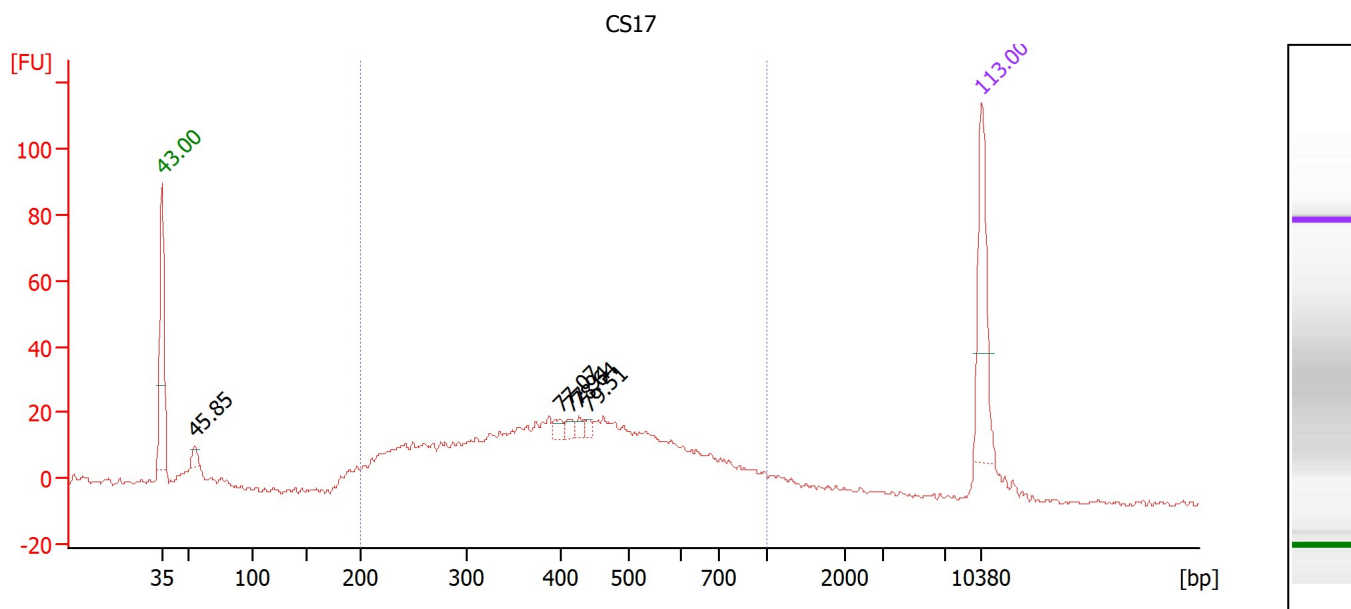
Region table for sample 8 : CS10

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,756.3	81	467	34.2	1,542.13	5,847.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
 Modified: 6/13/2017 3:03:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : CS17

Number of peaks found: 5 Corr. Area 1: 665.2
 Noise: 0.8

Peak table for sample 9 : CS17

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	55	13.12	359.2	
3	400	7.86	29.8	
4	415	7.88	28.8	
5	427	6.43	22.8	
6	442	6.18	21.2	
7	10,380	75.00	10.9	Upper Marker

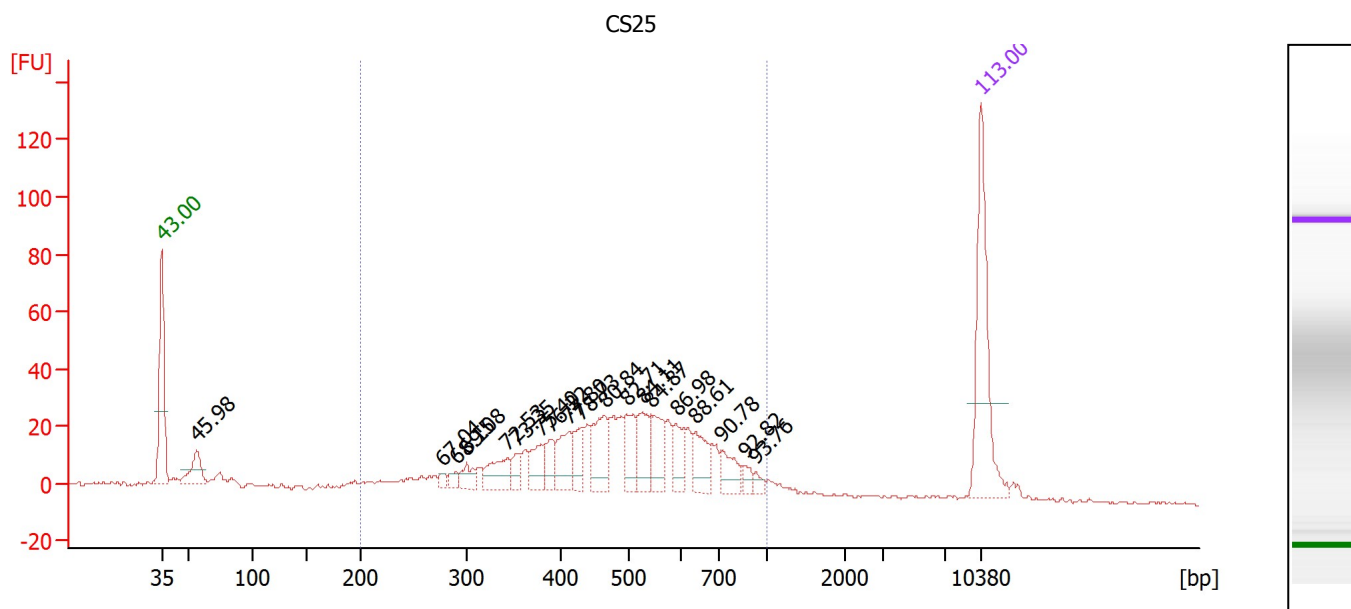
Region table for sample 9 : CS17

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	665.2	85	436	36.6	876.02	3,630.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
 Modified: 6/13/2017 3:03:15 PM

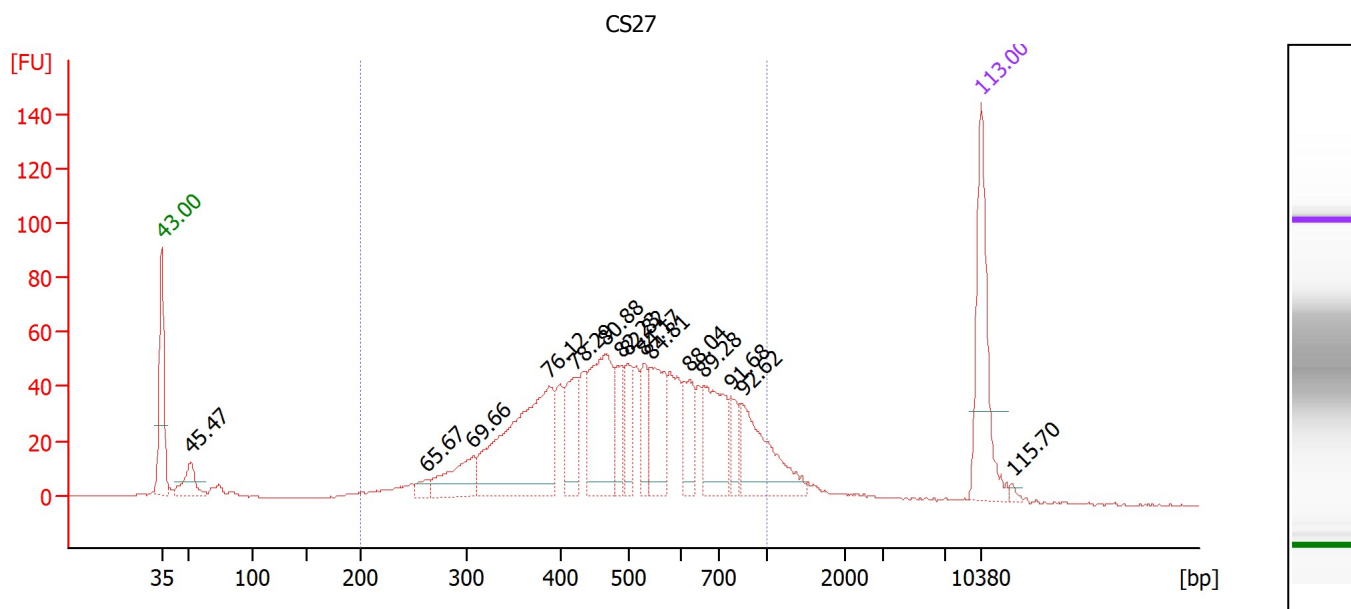
Electropherogram Summary Continued ...



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
 Modified: 6/13/2017 3:03:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CS27

Number of peaks found: 15 Corr. Area 1: 1,224.1
 Noise: 0.2

Peak table for sample 11 : CS27

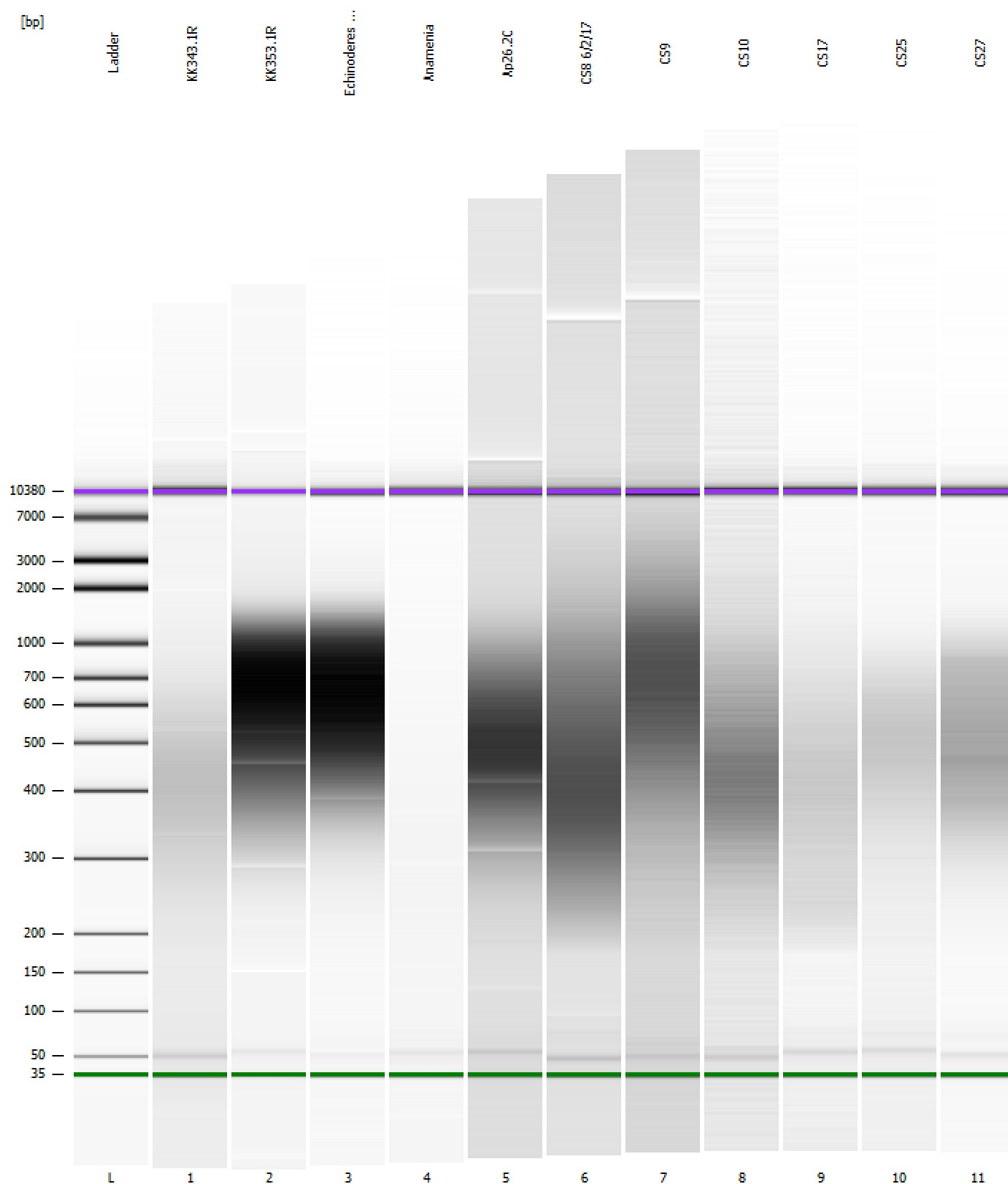
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	33.49	978.7	
3	263	10.78	62.1	
4	308	47.17	231.8	
5	388	184.37	719.8	
6	421	47.53	171.1	
7	466	103.70	337.5	
8	489	32.94	102.1	
9	499	32.89	99.8	
10	529	31.15	89.3	
11	543	59.34	165.6	
12	620	36.07	88.2	
13	658	64.65	148.9	
14	776	19.86	38.8	
15	844	70.55	126.6	
16	10,380	75.00	10.9	Upper Marker
17	13,339	0.00	0.0	

Region table for sample 11 : CS27

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,224.1	90	517	31.6	948.58	3,185.9	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
Modified: 6/13/2017 3:03:15 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\Users\corelab\AppData\Local\Temp\tmp8FFA.tmp.xad

Created: 6/13/2017 2:22:50 PM
 Modified: 6/13/2017 3:03:15 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 4 (Number of wells acquired: 12)		Instrument	Run		6/13/2017 3:03:12 PM	(GMT --05:00) Central Standard Time	corelab	UA-NET
Run started on port 4 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\Data\2017-06-13\2100 expert_High Sensitivity DNA Assay_DE72901990_2017-06-13_14-22-51.xad)		Instrument	Run		6/13/2017 2:22:51 PM	(GMT --05:00) Central Standard Time	corelab	UA-NET
Product Number : G2939A		Instrument	Run		6/13/2017 2:22:51 PM	(GMT --05:00) Central Standard Time	corelab	UA-NET
Name : 2100		Instrument	Run		6/13/2017 2:22:51 PM	(GMT --05:00) Central Standard Time	corelab	UA-NET
Vendor : Agilent Technologies		Instrument	Run		6/13/2017 2:22:51 PM	(GMT --05:00) Central Standard Time	corelab	UA-NET
Serial# : DE72901990		Instrument	Run		6/13/2017 2:22:51 PM	(GMT --05:00) Central Standard Time	corelab	UA-NET
Firmware : C.01.069		Instrument	Run		6/13/2017 2:22:51 PM	(GMT --05:00) Central Standard Time	corelab	UA-NET
Cartridge : Electrode		Instrument	Run		6/13/2017 2:22:51 PM	(GMT --05:00) Central Standard Time	corelab	UA-NET