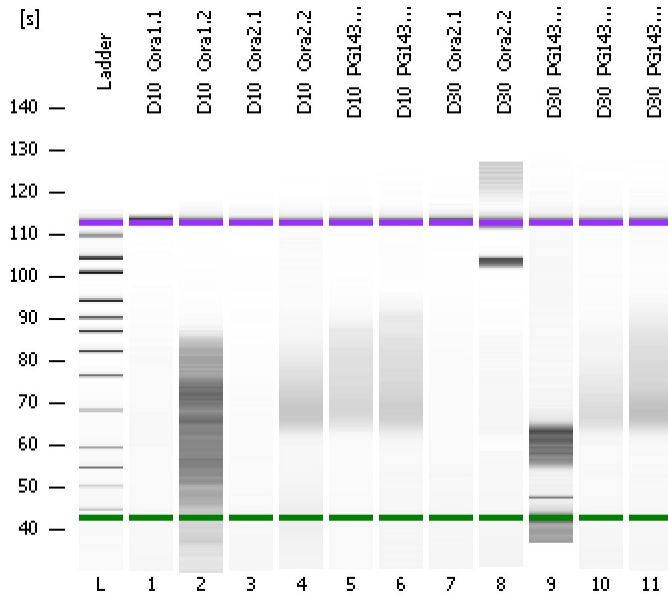


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
Modified: 4/19/2013 11:08:22 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

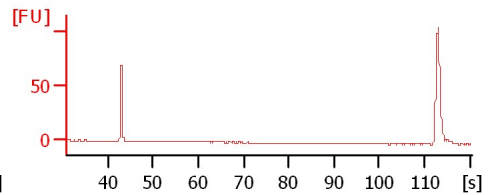
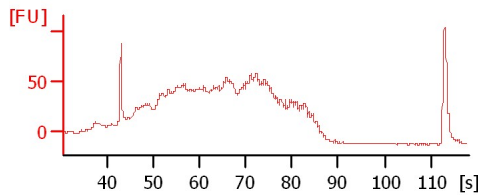
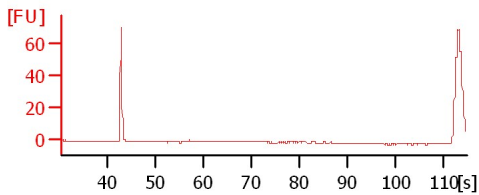
Chip Information:

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

D10_Cora1.1

D10_Cora1.2

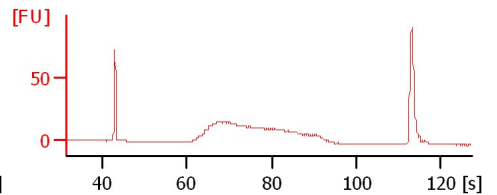
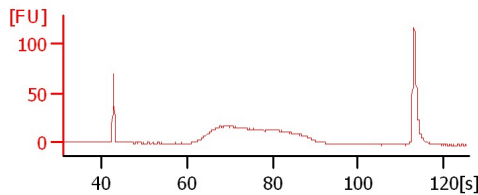
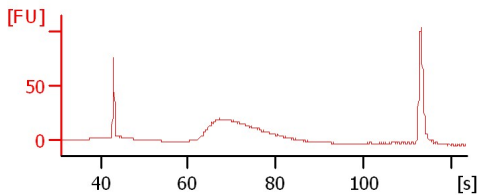
D10_Cora2.1



D10_Cora2.2

D10_PG1434_1.1

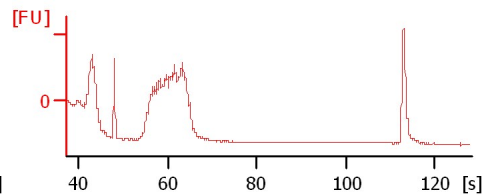
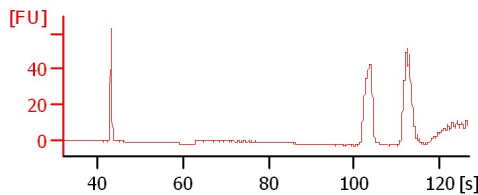
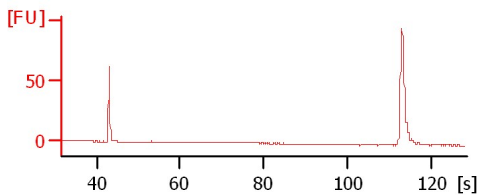
D10_PG1434_1.2



D30_Cora2.1

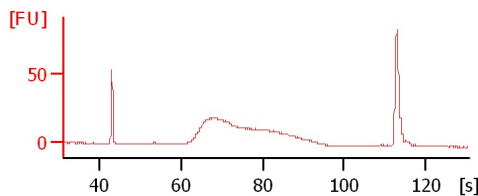
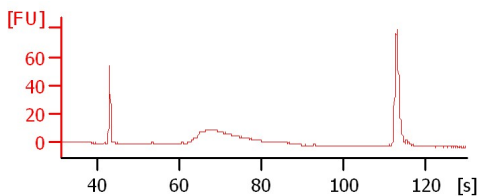
D30_Cora2.2

D30_PG1434_1.1



D30_PG1434_1.2

D30_PG1434_2.1



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
D10_Cora1.1		<input type="checkbox"/>	✓			
D10_Cora1.2		<input type="checkbox"/>	✓			
D10_Cora2.1		<input type="checkbox"/>	✓			
D10_Cora2.2		<input type="checkbox"/>	✓			
D10_PG1434_1.1		<input type="checkbox"/>	✓			
D10_PG1434_1.2		<input type="checkbox"/>	✓			
D30_Cora2.1		<input type="checkbox"/>	✓			
D30_Cora2.2		<input type="checkbox"/>	✓			
D30_PG1434_1.1		<input type="checkbox"/>	✓			
D30_PG1434_1.2		<input type="checkbox"/>	✓			
D30_PG1434_2.1		<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\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 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

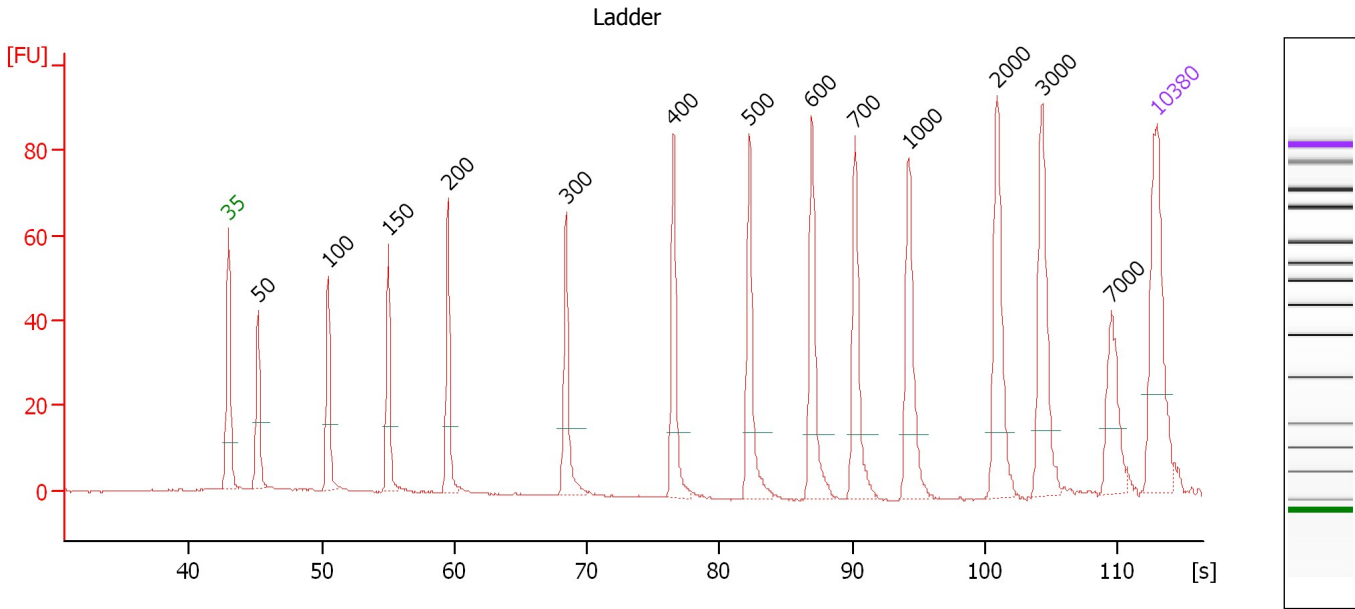
Ladder

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\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

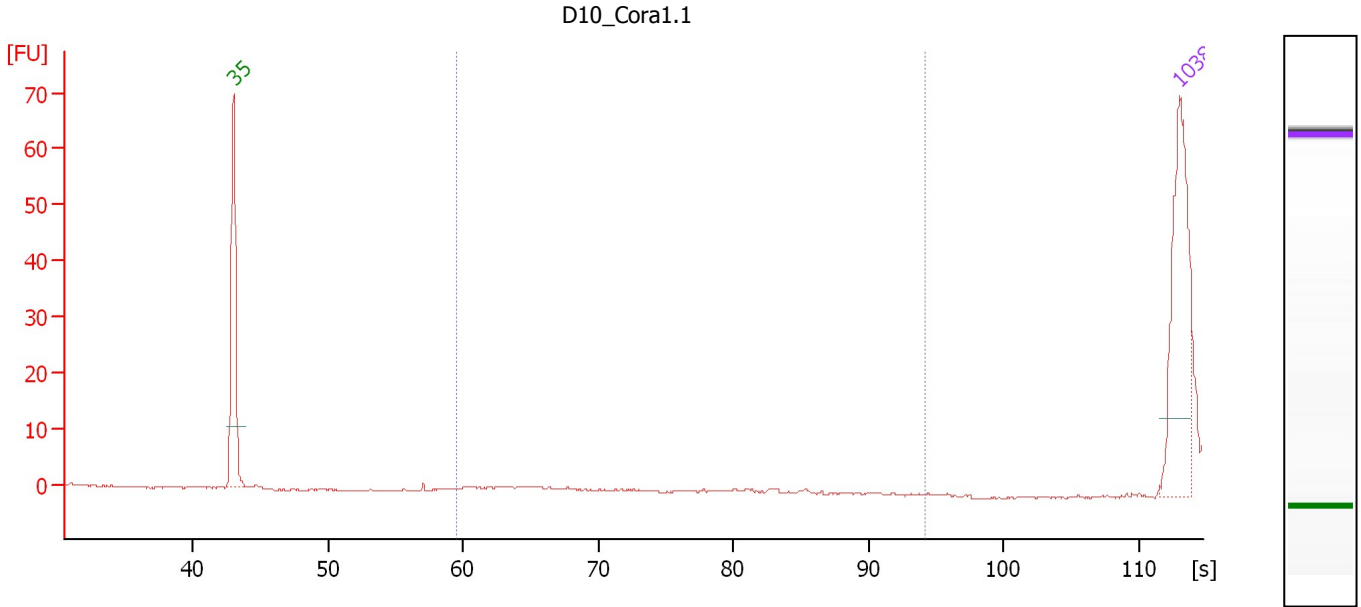
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : D10_Cora1.1

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 1 : D10_Cora1.1

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

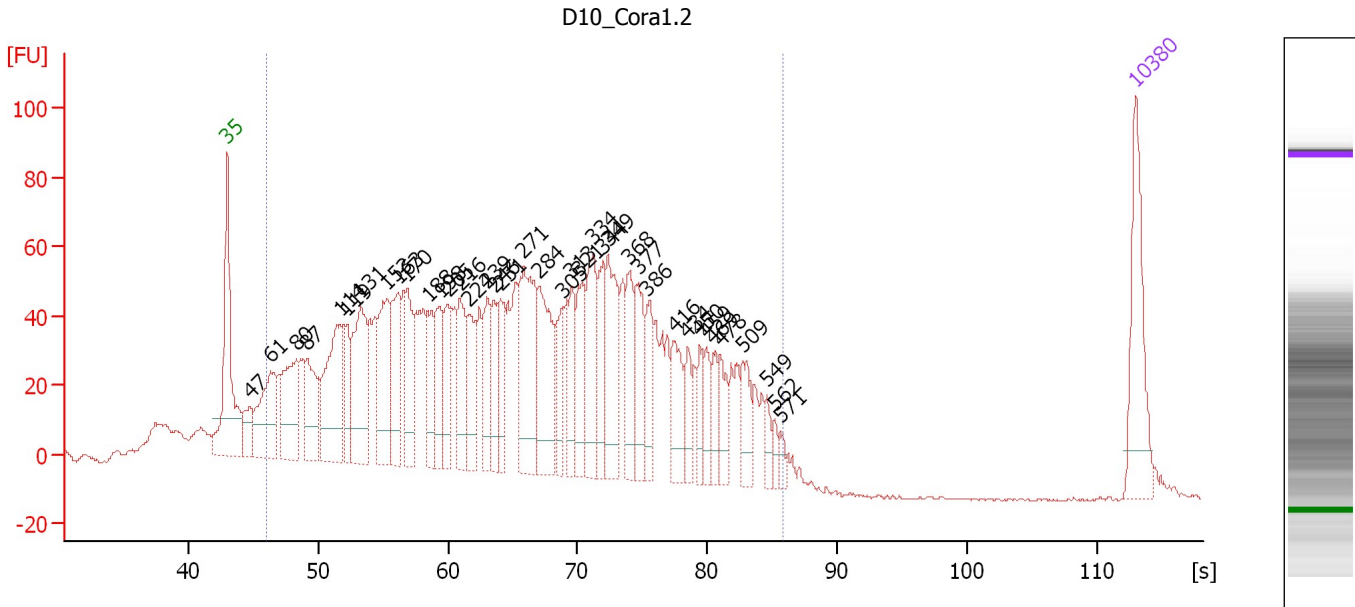
Region table for sample 1 : D10_Cora1.1

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.52	94.26	0	0.0	0.00	0.0	0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : D10_Cora1.2

Height Threshold [FU] : 10

Overall Results for sample 2 : D10_Cora1.2

Number of peaks found: 39 Corr. Area 1: 2,819.7
 Noise: 0.3

Peak table for sample 2 : D10_Cora1.2


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	37.93	1,223.2	
3	61	117.10	2,923.9	
4	80	120.72	2,299.4	
5	87	86.03	1,491.2	
6	114	161.42	2,151.7	
7	119	59.77	760.1	
8	131	146.80	1,692.0	
9	153	122.95	1,214.5	
10	163	100.63	937.8	
11	170	81.68	726.2	
12	188	63.56	511.2	
13	198	75.52	576.5	
14	205	62.97	464.4	
15	216	77.46	543.0	
16	224	60.43	408.7	
17	239	55.40	350.7	
18	246	50.85	312.8	
19	251	54.68	329.5	
20	271	148.69	831.5	
21	284	118.30	631.3	
22	305	45.03	223.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad


Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : D10 Cora1.2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
23	313	53.19	257.5	
24	321	65.49	309.4	
25	334	85.96	390.0	
26	344	53.44	235.6	
27	349	99.71	433.2	
28	368	58.32	240.0	
29	377	59.65	239.8	
30	386	42.44	166.6	
31	416	51.65	188.0	
32	434	28.66	100.2	
33	450	25.81	86.9	
34	459	27.64	91.3	
35	469	24.91	80.5	
36	478	33.14	105.1	
37	509	39.38	117.1	
38	549	14.94	41.2	
39	562	10.60	28.6	
40	571	8.31	22.1	
41	 10,380	75.00	10.9	Upper Marker

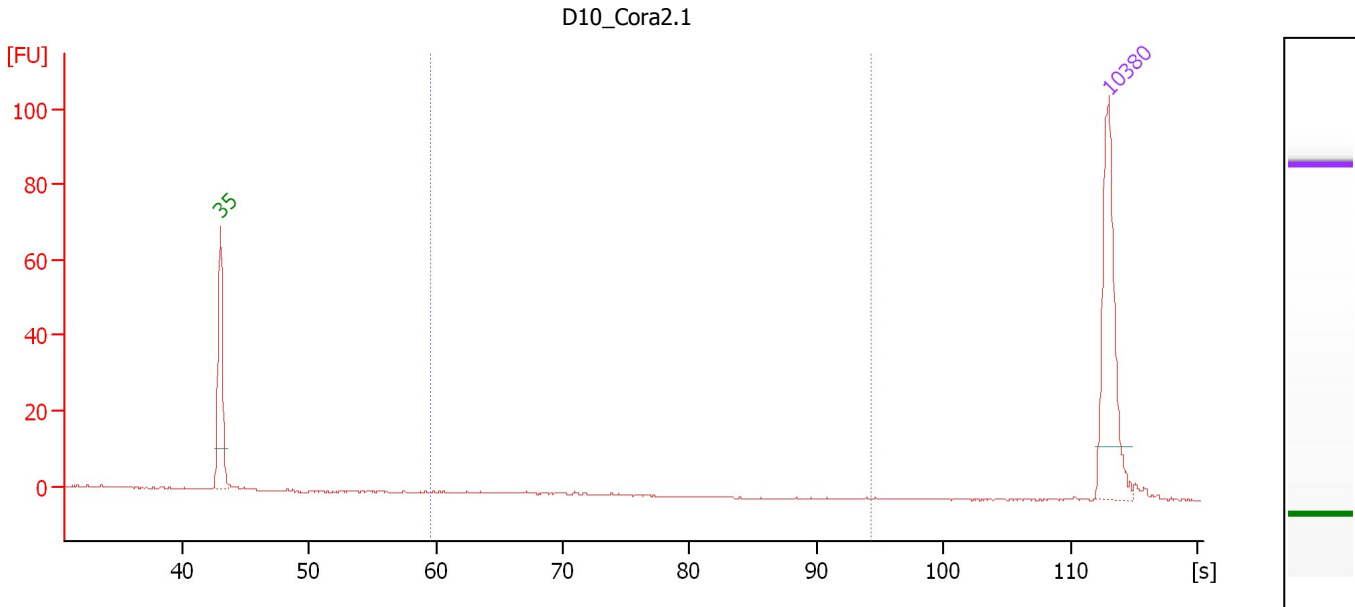
Region table for sample 2 : D10 Cora1.2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
45.99	85.83	277	27,887.4	3,325.96	2,819.7 91	45.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : D10_Cora2.1

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 3 : D10_Cora2.1

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

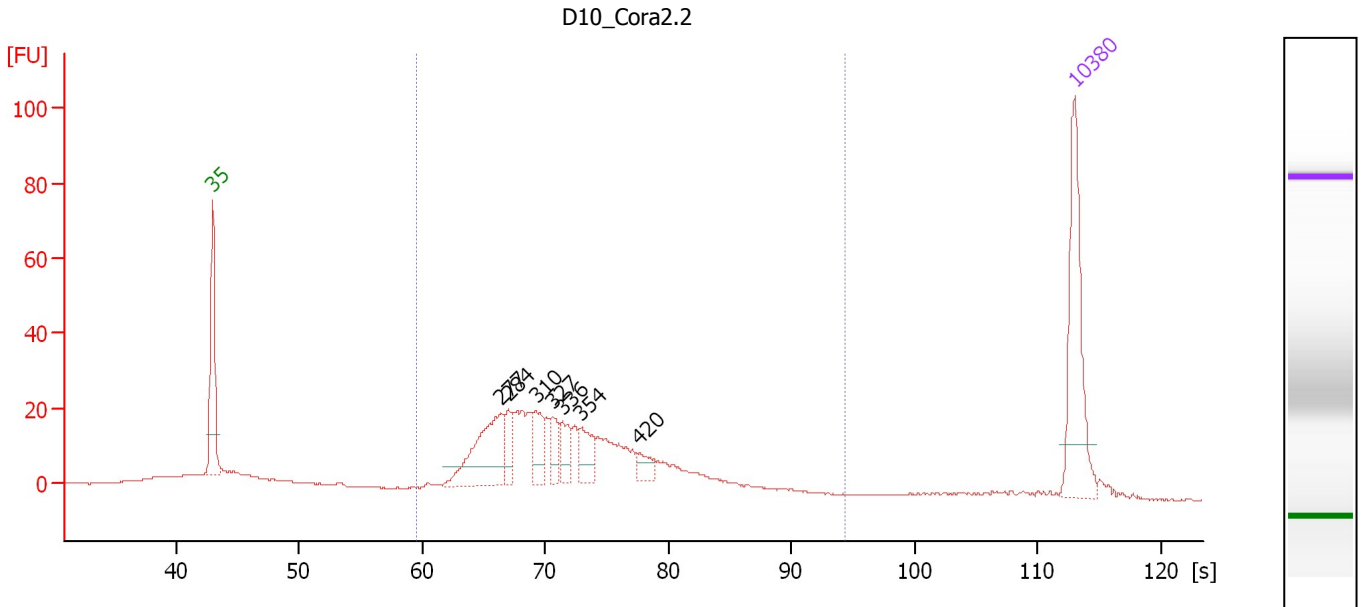
Region table for sample 3 : D10_Cora2.1

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.52	94.26	329	0.2	0.05	0.0	1	5.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : D10_Cora2.2

Number of peaks found: 7 Corr. Area 1: 431.7
 Noise: 0.1

Peak table for sample 4 : D10_Cora2.2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	277	91.41	499.4	
3	284	20.92	111.5	
4	310	27.07	132.3	
5	327	18.82	87.1	
6	336	22.03	99.2	
7	354	26.68	114.1	
8	420	12.00	43.3	
9	10,380	75.00	10.9	Upper Marker

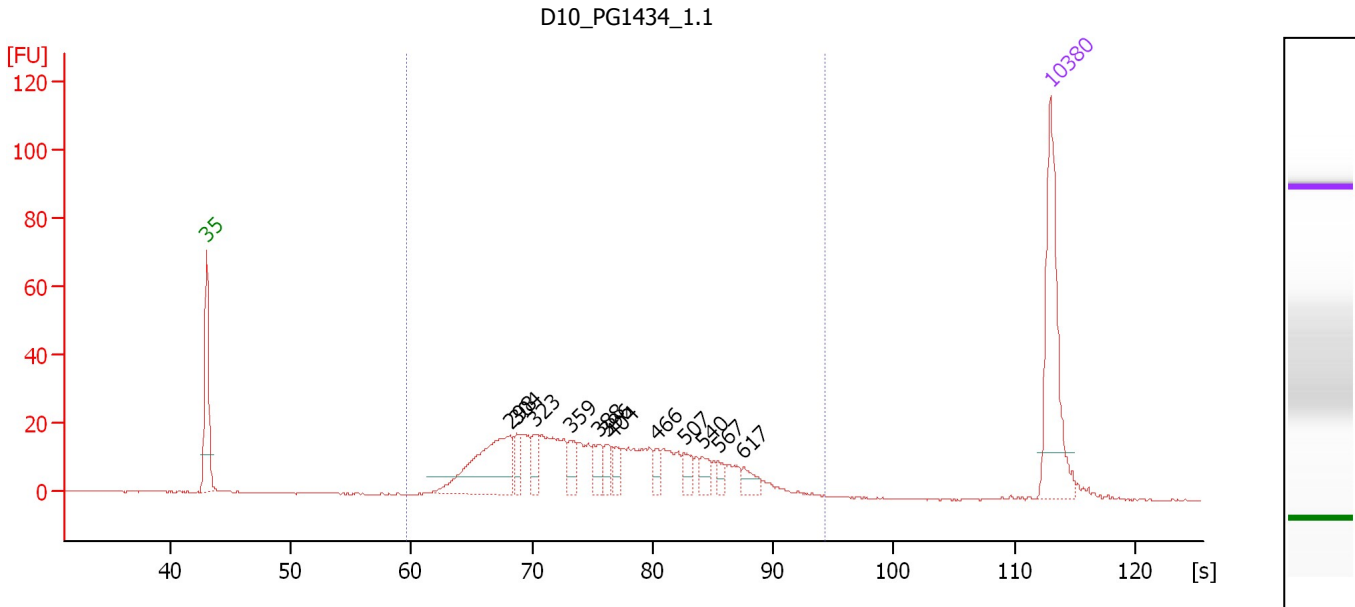
Region table for sample 4 : D10_Cora2.2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.52	94.26	356	2,111.2	458.68	431.7 81	26.5	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : D10_PG1434_1.1

Number of peaks found: 12 Corr. Area 1: 478.7
 Noise: 0.2

Peak table for sample 5 : D10_PG1434_1.1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	298	94.79	482.4	
3	304	15.18	75.6	
4	323	14.60	68.6	
5	359	16.39	69.3	
6	388	16.59	64.7	
7	396	10.81	41.3	
8	404	12.56	47.2	
9	466	8.82	28.7	
10	507	12.67	37.9	
11	540	10.86	30.4	
12	567	5.85	15.6	
13	617	10.01	24.6	
14	10,380	75.00	10.9	Upper Marker

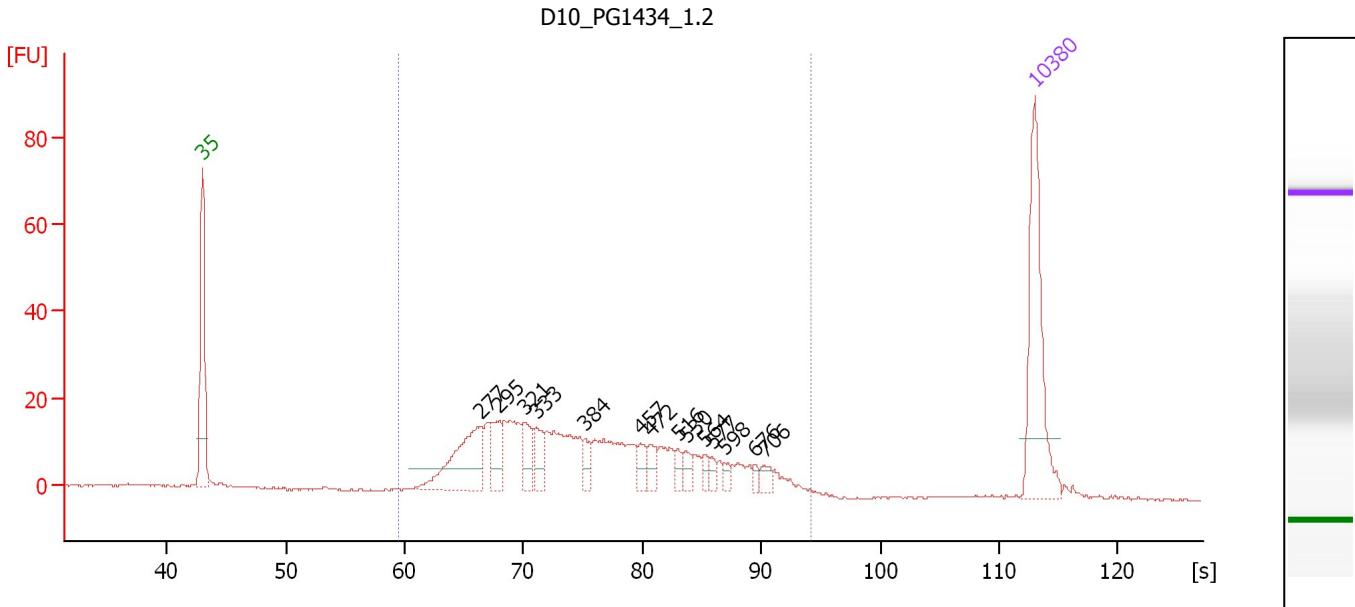
Region table for sample 5 : D10_PG1434_1.1

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
59.52	94.26	409	1,851.7	447.95	478.7	98	29.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : D10_PG1434_1.2

Number of peaks found: 14 Corr. Area 1: 445.6
 Noise: 0.2

Peak table for sample 6 : D10_PG1434_1.2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	277	79.41	434.1	
3	295	30.19	155.1	
4	321	24.84	117.4	
5	333	20.38	92.7	
6	384	10.16	40.1	
7	457	11.22	37.2	
8	472	12.76	41.0	
9	516	7.14	21.0	
10	530	8.72	24.9	
11	564	5.82	15.6	
12	577	5.26	13.8	
13	598	4.70	11.9	
14	676	4.05	9.1	
15	706	6.94	14.9	
16	10,380	75.00	10.9	Upper Marker

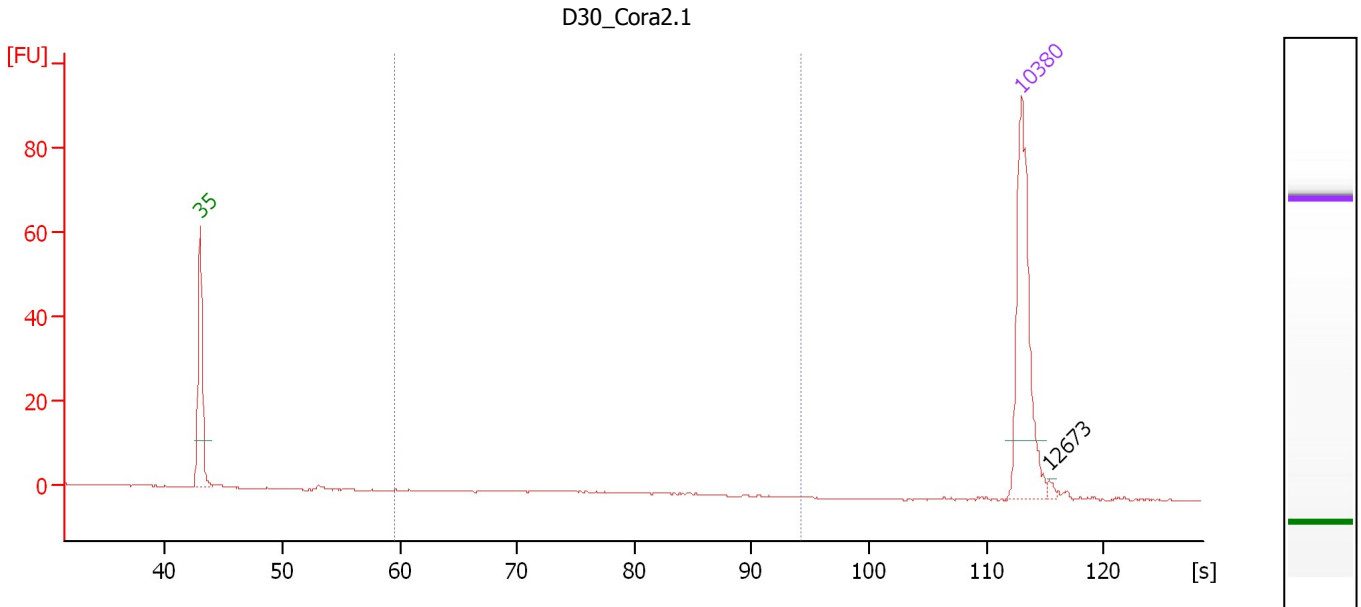
Region table for sample 6 : D10_PG1434_1.2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.52	94.26	417	2,100.1	502.17	445.6 96	34.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : D30_Cora2.1

Number of peaks found: 1 Corr. Area 1: 1.3
 Noise: 0.2

Peak table for sample 7 : D30_Cora2.1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	12,673	0.00	0.0	

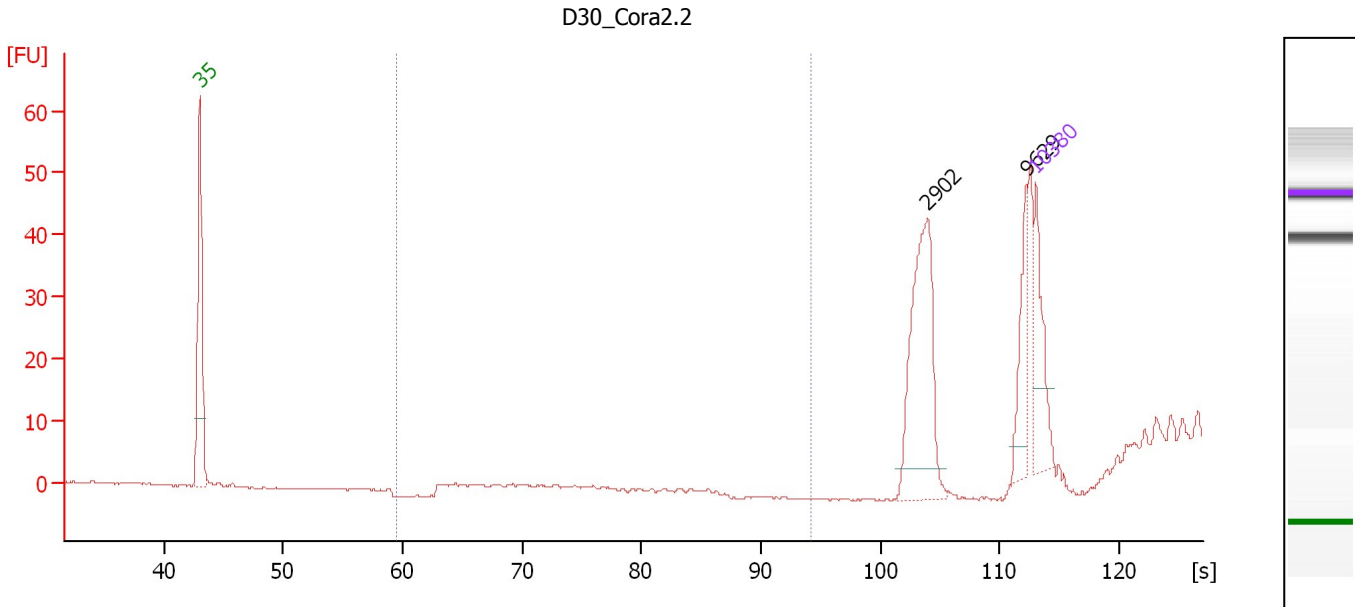
Region table for sample 7 : D30_Cora2.1

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
59.52	94.26	385	5.3	1.31	1.3	13	15.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : D30_Cora2.2

Number of peaks found: 2 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 8 : D30_Cora2.2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	2,902	208.44	108.8	
3	9,629	63.30	10.0	
4	10,380	75.00	10.9	Upper Marker

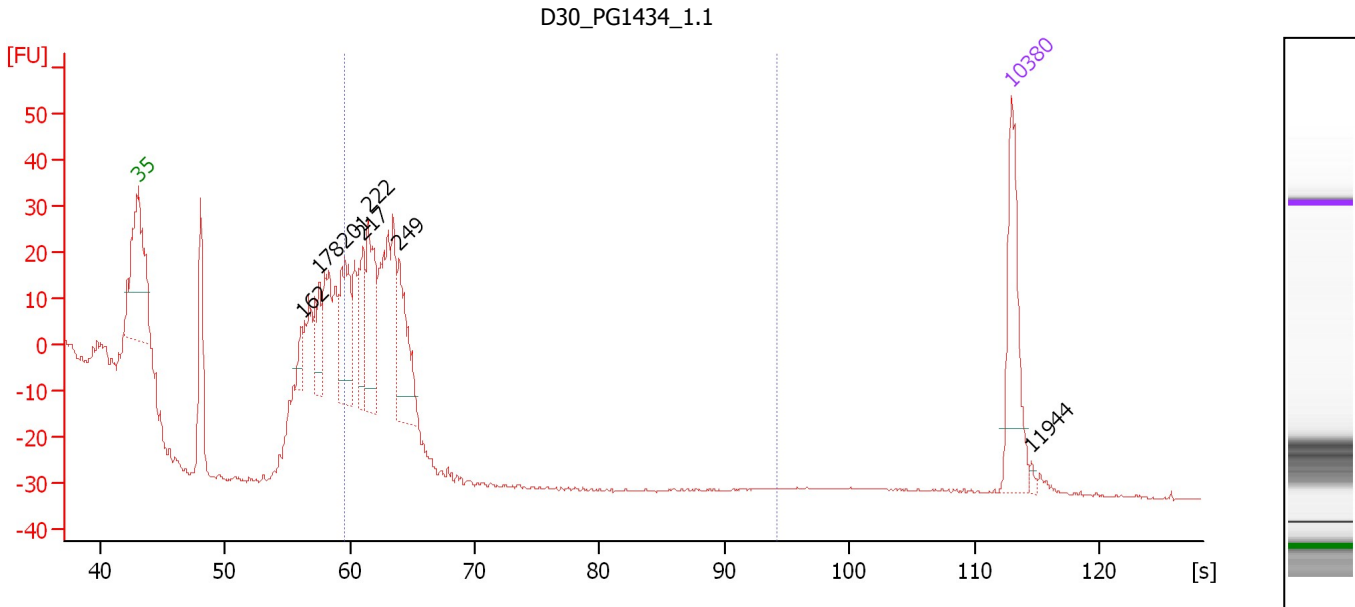
Region table for sample 8 : D30_Cora2.2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.52	94.26	0	0.0	0.00	0.0	0.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : D30_PG1434_1.1

Number of peaks found: 7 Corr. Area 1: 275.0
 Noise: 0.2

Peak table for sample 9 : D30_PG1434_1.1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	162	17.56	164.0	
3	178	41.06	349.5	
4	201	92.47	698.7	
5	217	59.64	416.5	
6	222	104.84	716.3	
7	249	92.25	560.7	
8	10,380	75.00	10.9	Upper Marker
9	11,944	0.00	0.0	

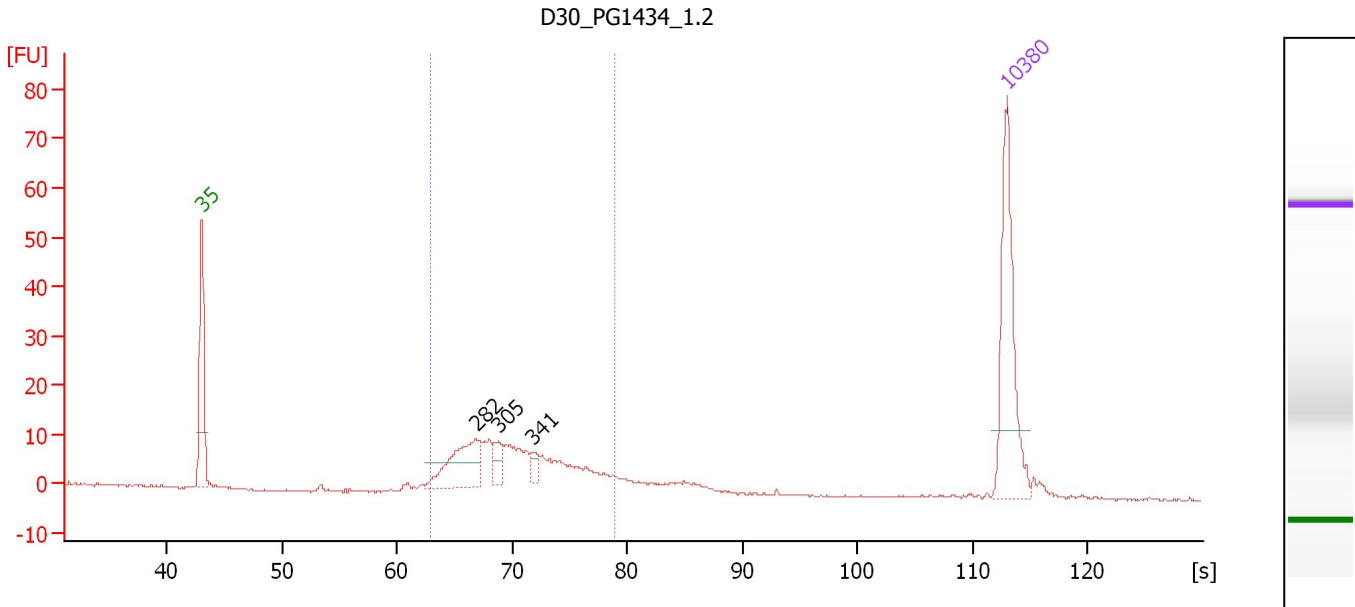
Region table for sample 9 : D30_PG1434_1.1

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.52	94.26	229	2,837.1	429.31	275.0 62	7.2	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : D30 PG1434 1.2

Number of peaks found: 3 Corr. Area 1: 153.7
 Noise: 0.2

Peak table for sample 10 : D30 PG1434 1.2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	282	61.56	330.8	
3	305	16.35	81.2	
4	341	8.45	37.5	
5	10,380	75.00	10.9	Upper Marker

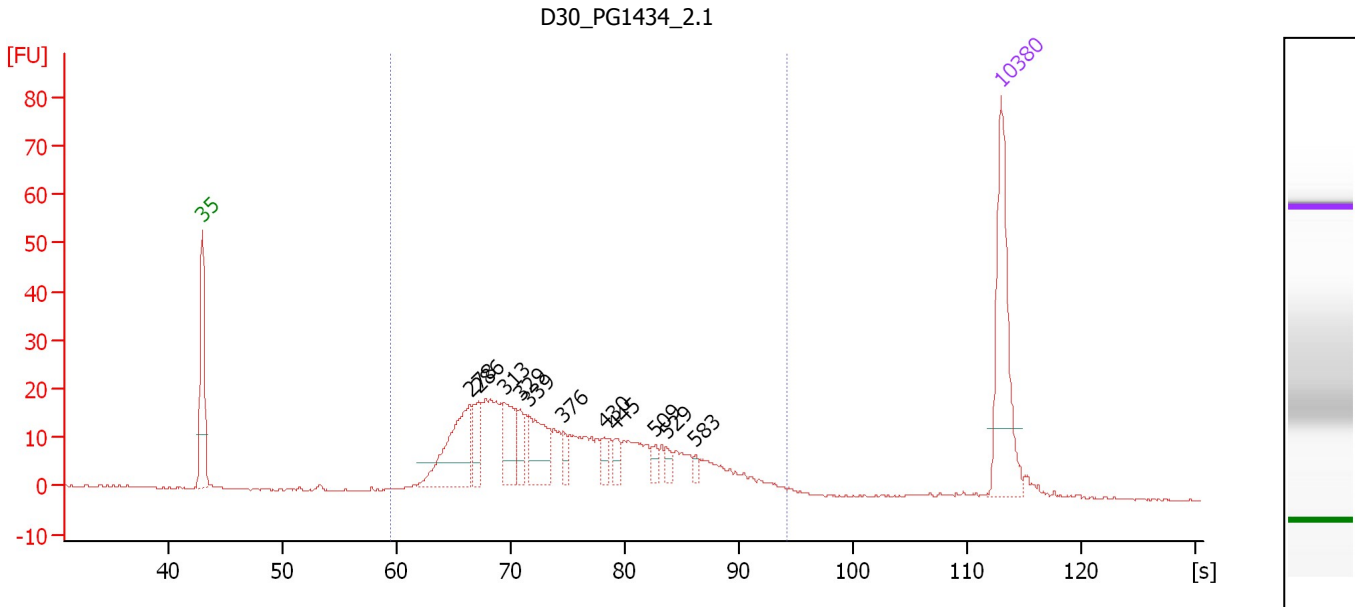
Region table for sample 10 : D30 PG1434 1.2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution CV [%]	Color
62.91	78.98	323	1,007.5	208.48	153.7	83	15.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : D30_PG1434_2.1

Number of peaks found: 11 Corr. Area 1: 446.8
 Noise: 0.1

Peak table for sample 11 : D30_PG1434_2.1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	278	87.35	476.8	
3	286	22.69	120.2	
4	313	39.26	190.3	
5	329	18.21	83.8	
6	339	48.66	217.7	
7	376	11.26	45.3	
8	430	9.49	33.5	
9	445	9.63	32.8	
10	509	8.28	24.6	
11	529	7.26	20.8	
12	583	4.40	11.4	
13	10,380	75.00	10.9	Upper Marker

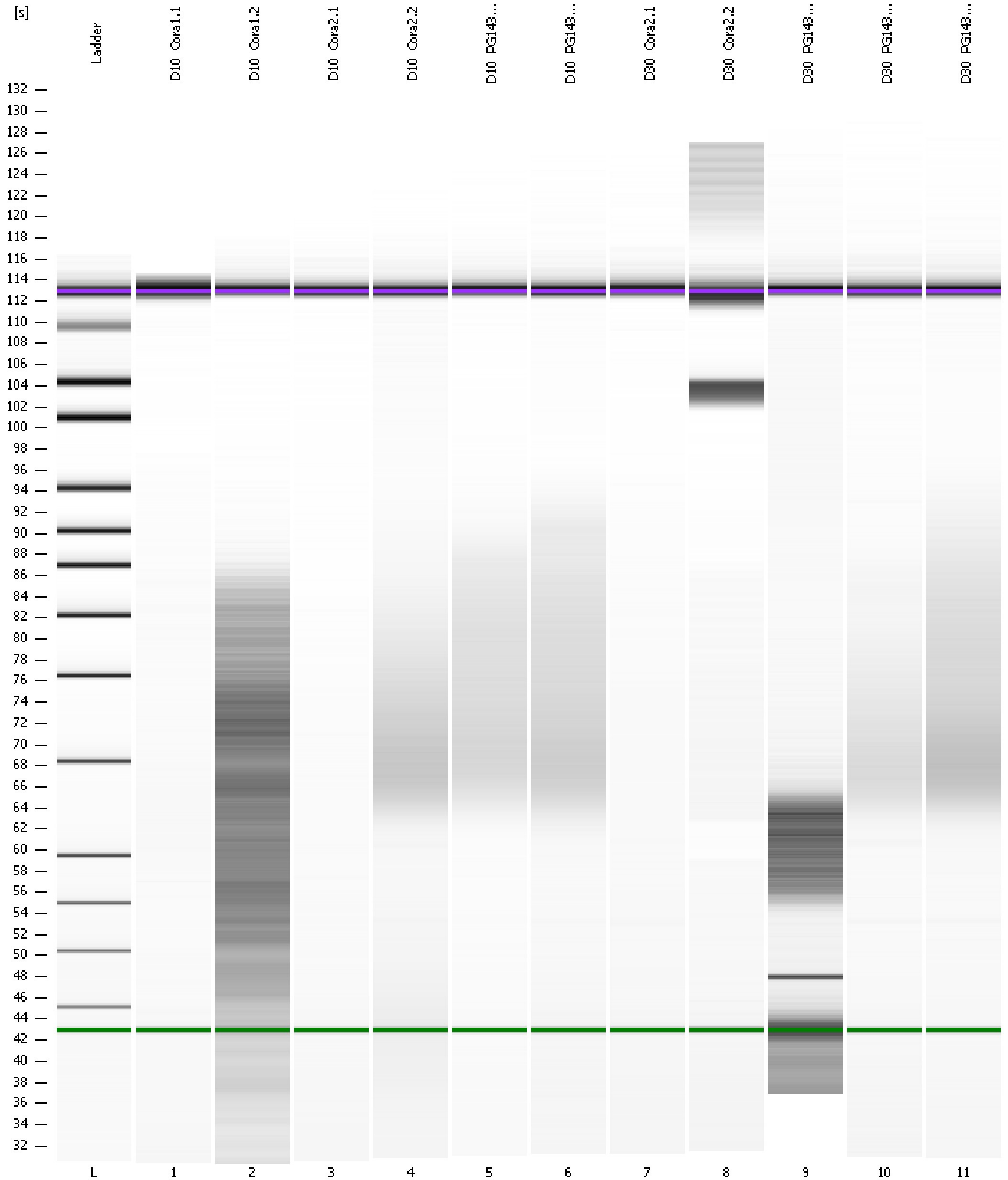
Region table for sample 11 : D30_PG1434_2.1

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.52	94.26	405	2,545.9	596.70	446.8 96	33.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
Modified: 4/19/2013 11:08:22 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad

Created: 4/19/2013 10:27:01 AM
 Modified: 4/19/2013 11:08:22 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		4/19/2013 11:08:18 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-19\2013-04-19_001.xad)		Instrument	Run		4/19/2013 10:27:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/19/2013 10:27:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/19/2013 10:27:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/19/2013 10:27:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/19/2013 10:27:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/19/2013 10:27:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/19/2013 10:27:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1