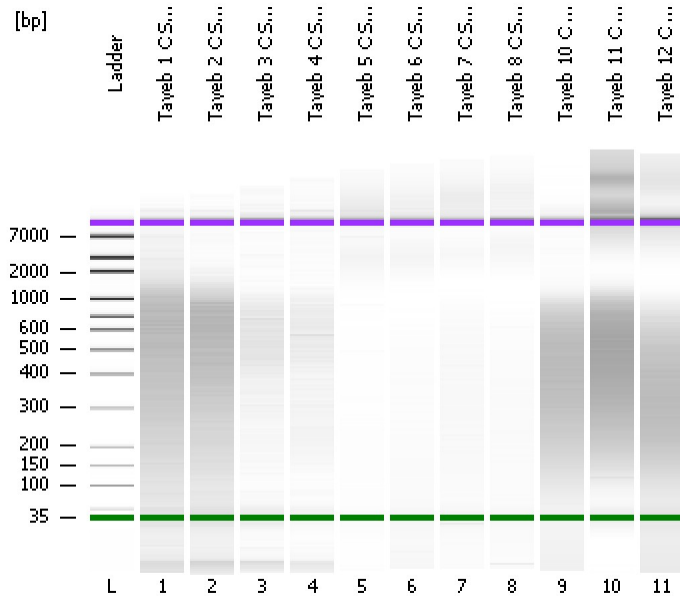


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
Modified: 9/5/2014 11:25:55 AM

Electrophoresis File Run Summary



Instrument Information:

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

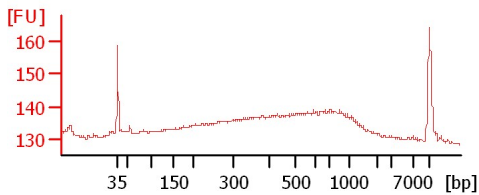
Assay Information:

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

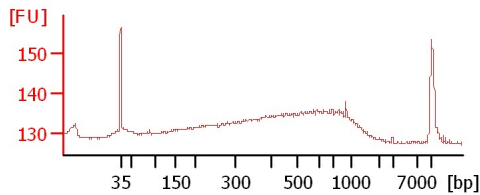
Chip Information:

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

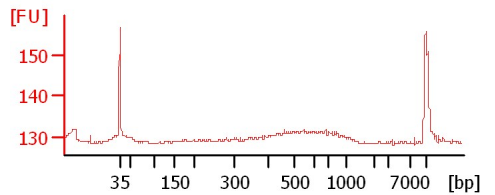
Tayeb 1 C Soni2



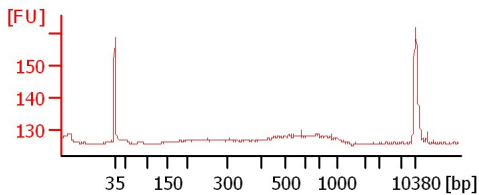
Tayeb 2 C Soni2



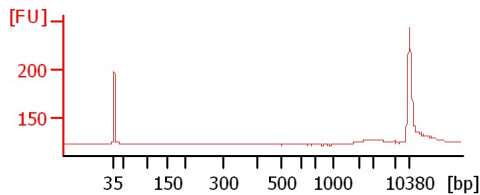
Tayeb 3 C Soni2



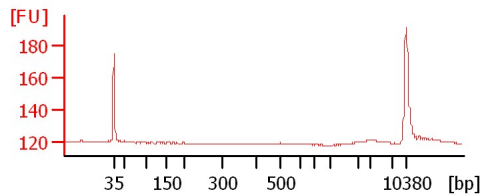
Tayeb 4 C Soni2



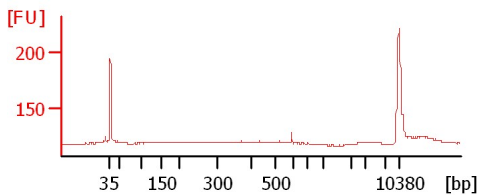
Tayeb 5 C Soni2



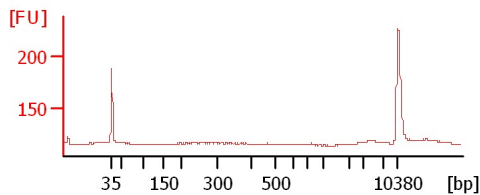
Tayeb 6 C Soni2



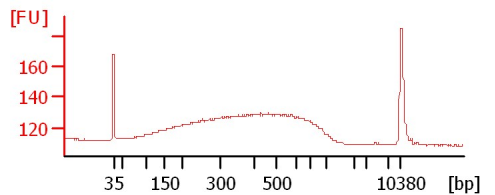
Tayeb 7 C Soni2



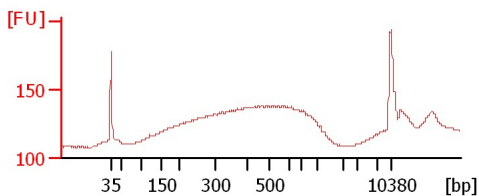
Tayeb 8 C Soni2



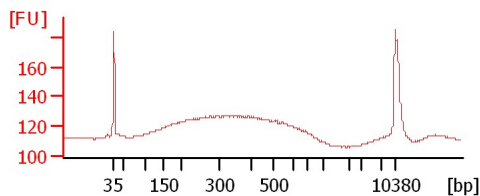
Tayeb 10 C Soni2



Tayeb 11 C Soni2



Tayeb 12 C Soni2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
Modified: 9/5/2014 11:25:55 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Tayeb 1 C Soni2		<input type="checkbox"/>	✓			
Tayeb 2 C Soni2		<input type="checkbox"/>	✓			
Tayeb 3 C Soni2		<input type="checkbox"/>	✓			
Tayeb 4 C Soni2		<input type="checkbox"/>	✓			
Tayeb 5 C Soni2		<input type="checkbox"/>	✓			
Tayeb 6 C Soni2		<input type="checkbox"/>	✓			
Tayeb 7 C Soni2		<input type="checkbox"/>	✓			
Tayeb 8 C Soni2		<input type="checkbox"/>	✓			
Tayeb 10 C Soni2		<input type="checkbox"/>	✓			
Tayeb 11 C Soni2		<input type="checkbox"/>	✓			
Tayeb 12 C Soni2		<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\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
 Modified: 9/5/2014 11:25:55 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

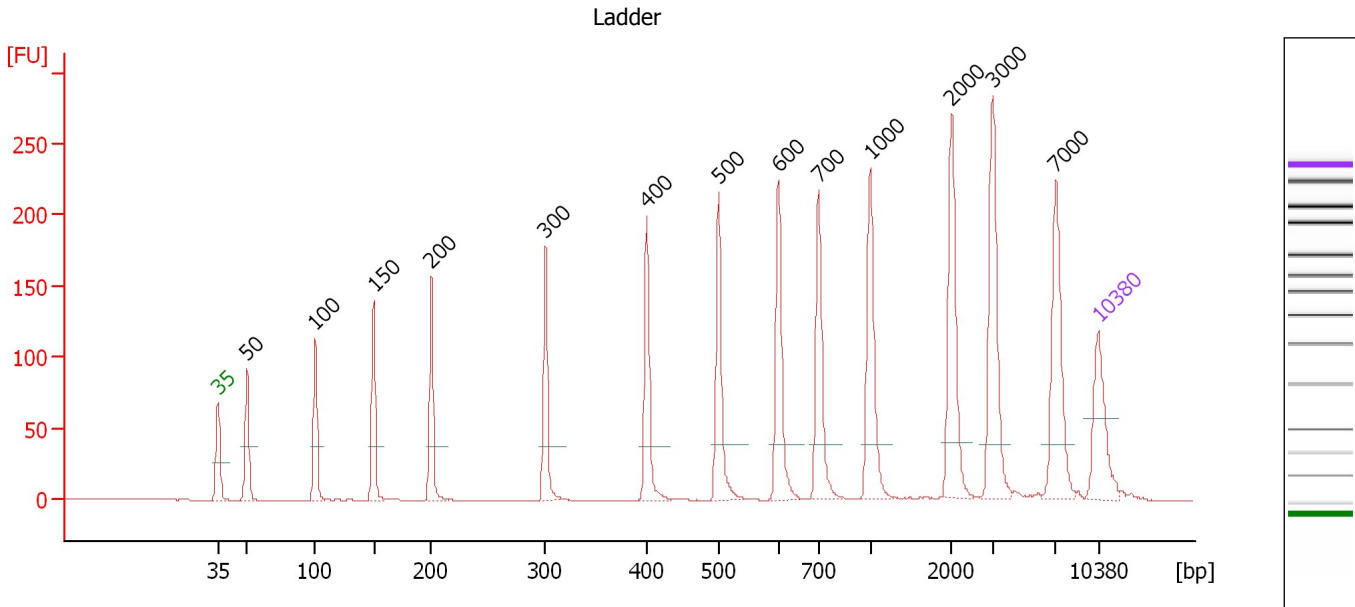
Ladder

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\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

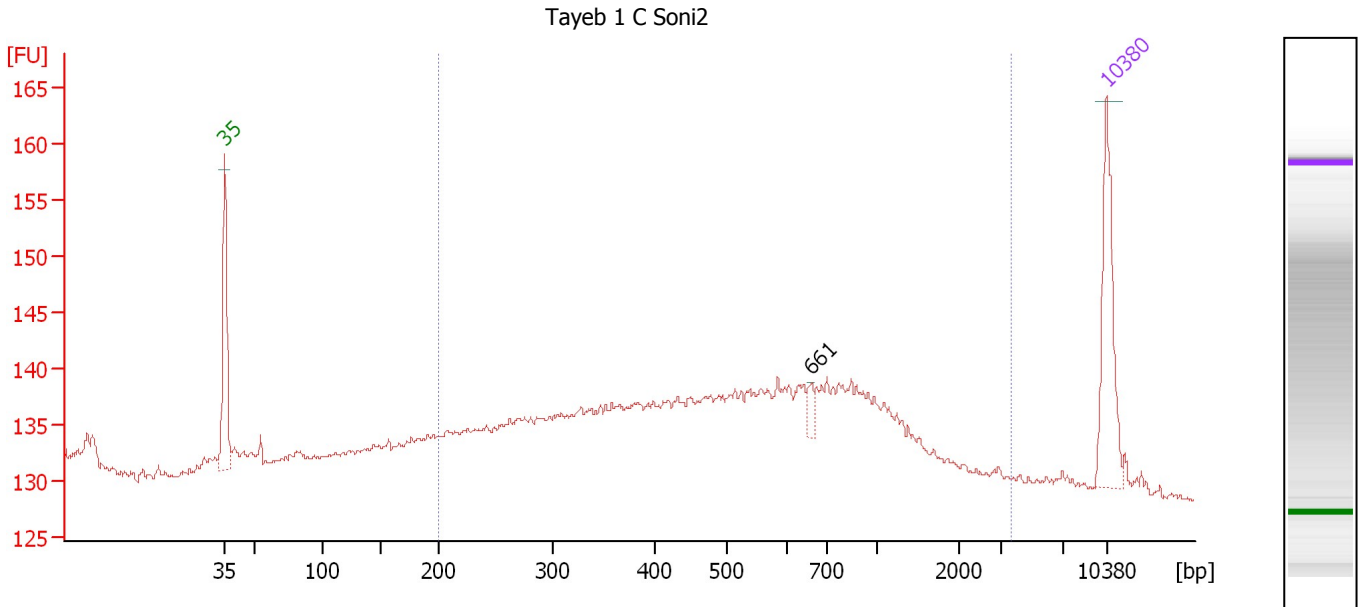
Peak table for Ladder

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\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
 Modified: 9/5/2014 11:25:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Tayeb 1 C Soni2

Number of peaks found: 1 Corr. Area 1: 332.5
 Noise: 0.3

Peak table for sample 1 : Tayeb 1 C Soni2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	661	9.73	22.3	
3	10,380	75.00	10.9	Upper Marker

Region table for sample 1 : Tayeb 1 C Soni2

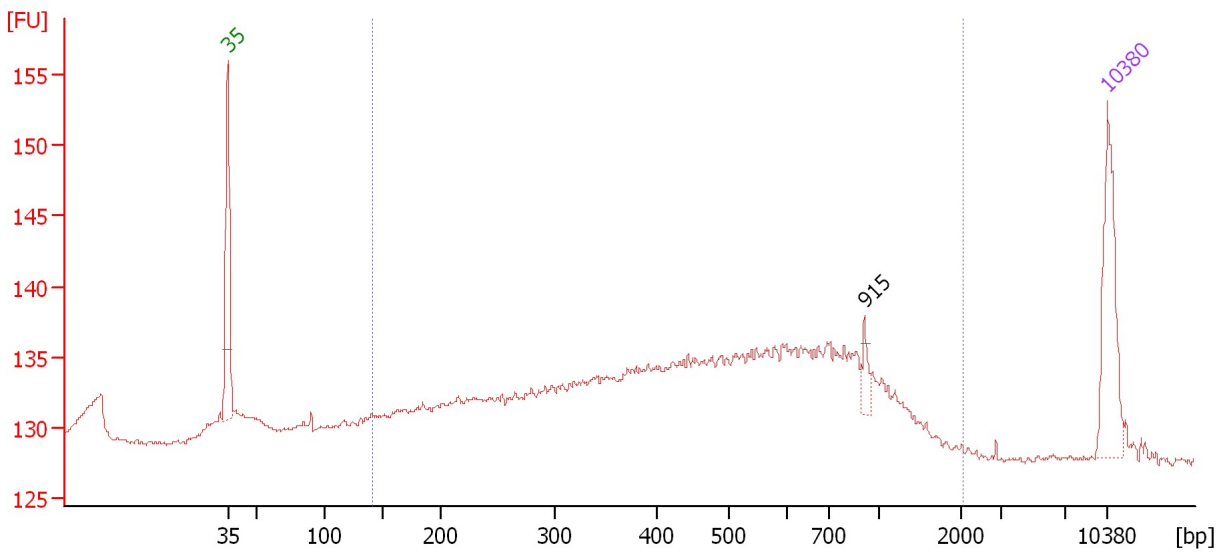
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	3,707	332.5	84	650	73.0	1,168.88	4,199.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
 Modified: 9/5/2014 11:25:55 AM

Electropherogram Summary Continued ...

Tayeb 2 C Soni2



Overall Results for sample 2 : Tayeb 2 C Soni2

Number of peaks found: 1 Corr. Area 1: 265.5
 Noise: 0.1

Peak table for sample 2 : Tayeb 2 C Soni2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	915	14.32	23.7	
3	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : Tayeb 2 C Soni2

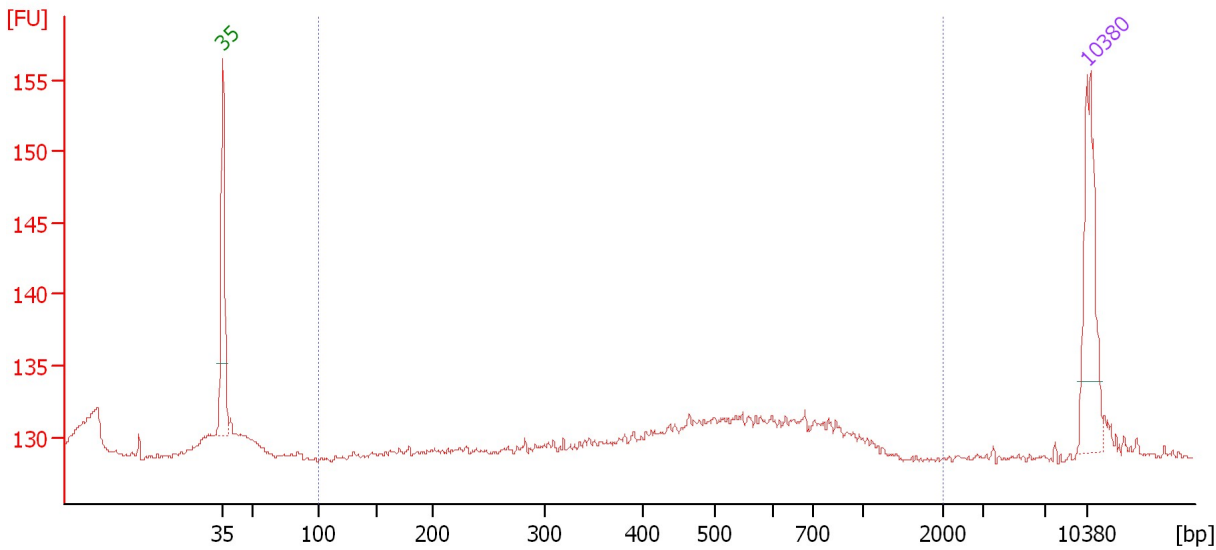
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
140	2,065	265.5	90	551	54.8	1,178.66	4,788.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
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Electropherogram Summary Continued ...

Tayeb 3 C Soni2



Overall Results for sample 3 : Tayeb 3 C Soni2

Number of peaks found: 0 Corr. Area 1: 36.5
 Noise: 0.2

Peak table for sample 3 : Tayeb 3 C Soni2

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 : Tayeb 3 C Soni2

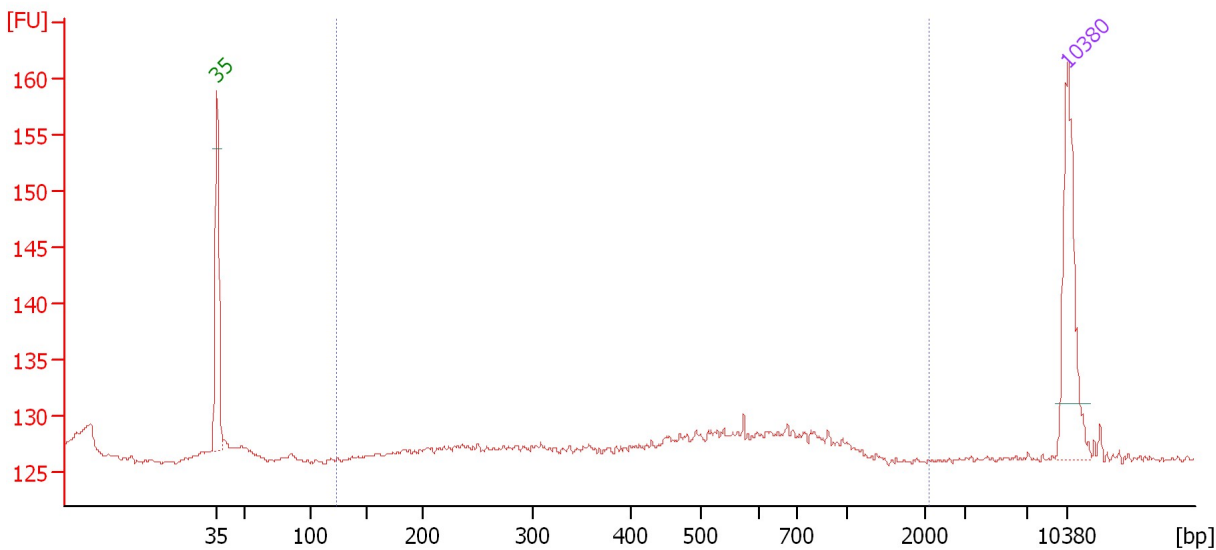
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
101	1,992	36.5	76	604	26.7	145.65	396.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
 Modified: 9/5/2014 11:25:55 AM

Electropherogram Summary Continued ...

Tayeb 4 C Soni2



Overall Results for sample 4 : Tayeb 4 C Soni2

Number of peaks found: 0 Corr. Area 1: 19.2
 Noise: 0.2

Peak table for sample 4 : Tayeb 4 C Soni2

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

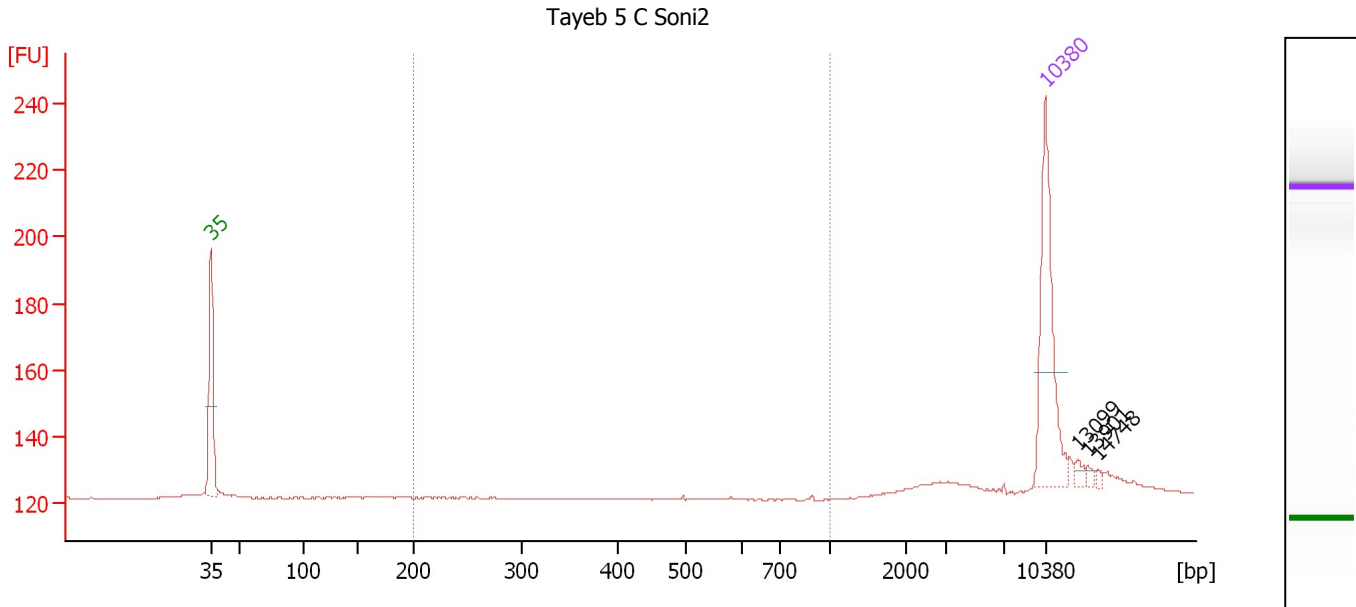
Region table for sample 4 : Tayeb 4 C Soni2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
122	2,106	19.2	84	635	21.8	55.25	139.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
 Modified: 9/5/2014 11:25:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Tayeb 5 C Soni2

Number of peaks found: 3 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 5 : Tayeb 5 C Soni2

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	13,099	0.00	0.0	
4	13,901	0.00	0.0	
5	14,748	0.00	0.0	

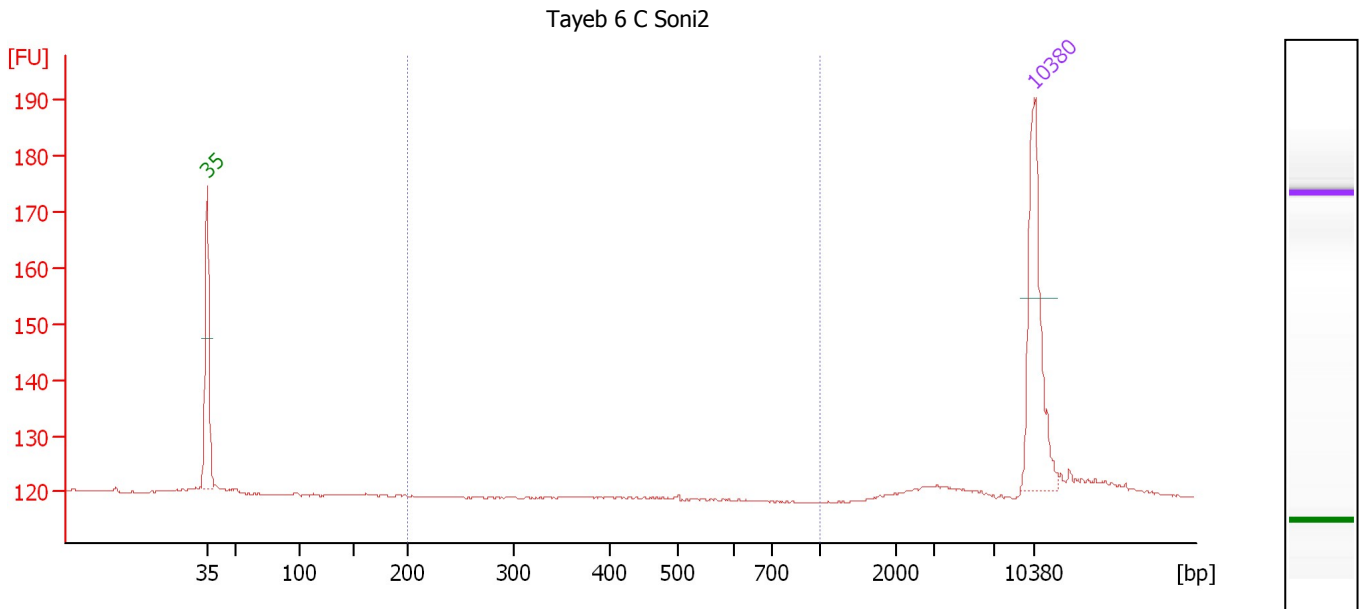
Region table for sample 5 : Tayeb 5 C Soni2

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	0.0	0	0	0.0	0.00	0.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
Modified: 9/5/2014 11:25:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Tayeb 6 C Soni2

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

Peak table for sample 6 : Tayeb 6 C Soni2

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

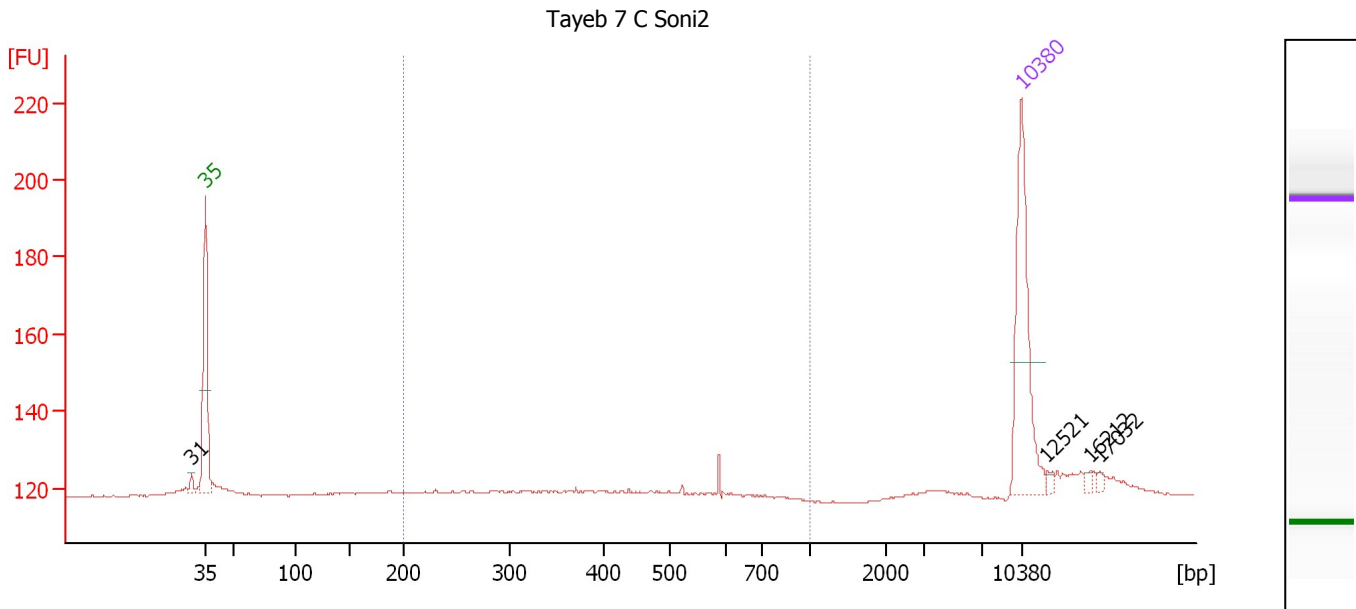
Region table for sample 6 : Tayeb 6 C Soni2

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	0.0	0	0	0.0	0.00	0.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
 Modified: 9/5/2014 11:25:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Tayeb 7 C Soni2

Number of peaks found: 4 Corr. Area 1: 39.6
 Noise: 0.1

Peak table for sample 7 : Tayeb 7 C Soni2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	10,380	75.00	10.9	Upper Marker
4	12,521	0.00	0.0	
5	16,212	0.00	0.0	
6	17,032	0.00	0.0	

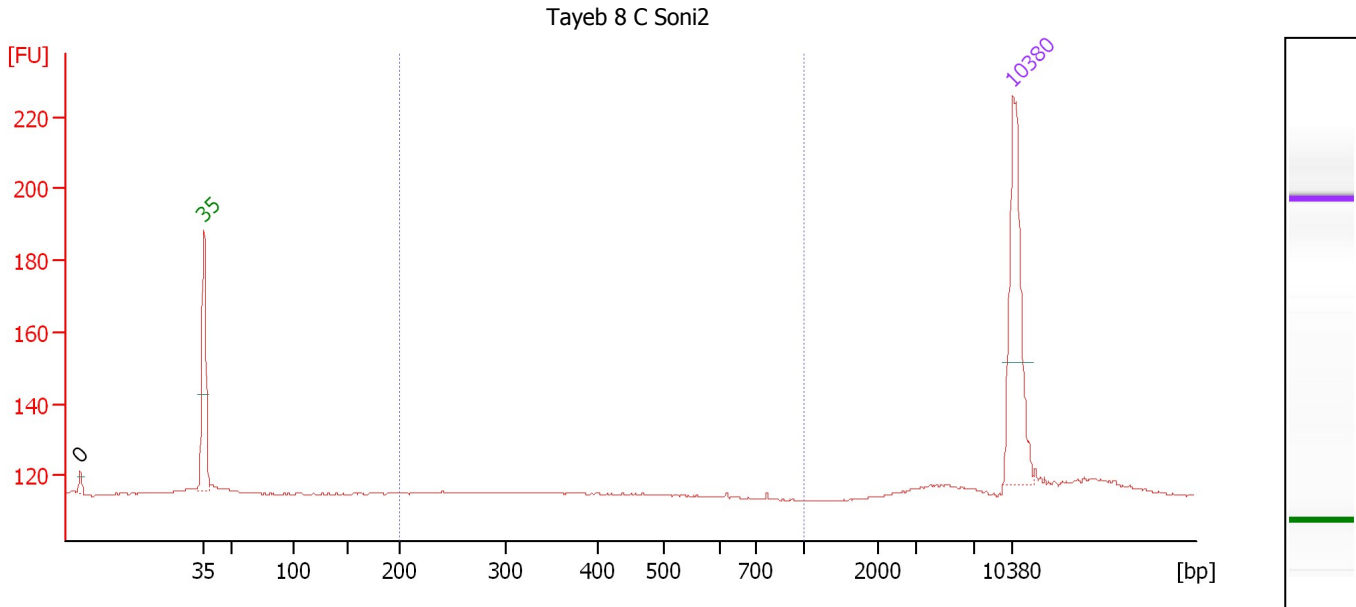
Region table for sample 7 : Tayeb 7 C Soni2

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	39.6	33	380	31.0	42.26	194.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
 Modified: 9/5/2014 11:25:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Tayeb 8 C Soni2

Number of peaks found: 1 Corr. Area 1: 2.9
 Noise: 0.2

Peak table for sample 8 : Tayeb 8 C Soni2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	10,380	75.00	10.9	Upper Marker

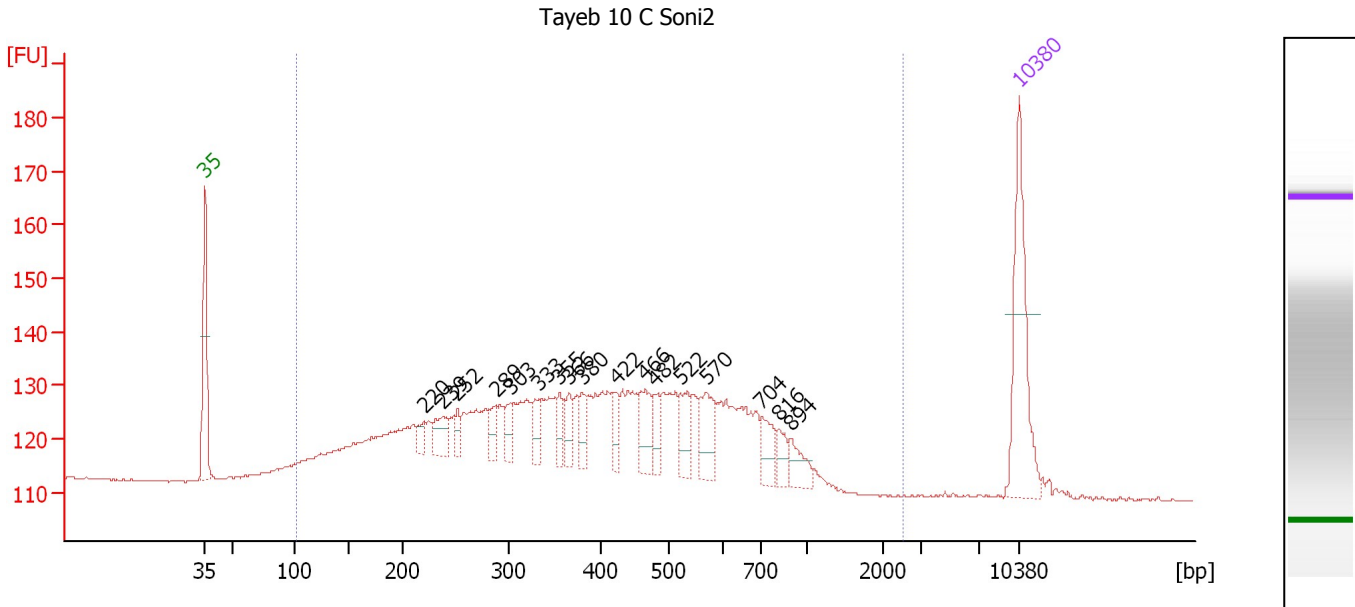
Region table for sample 8 : Tayeb 8 C Soni2

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	2.9	4	322	31.7	3.05	15.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
 Modified: 9/5/2014 11:25:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Tayeb 10 C Soni2

Number of peaks found: 17 Corr. Area 1: 837.9
 Noise: 0.2

Peak table for sample 9 : Tayeb 10 C Soni2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	220	10.84	74.5	
3	239	23.66	150.3	
4	252	12.67	76.1	
5	289	16.30	85.6	
6	303	17.13	85.8	
7	333	21.25	96.8	
8	355	17.06	72.8	
9	366	16.76	69.4	
10	380	15.96	63.6	
11	422	17.05	61.2	
12	466	29.48	95.9	
13	482	15.49	48.7	
14	522	25.93	75.2	
15	570	34.91	92.9	
16	704	22.19	47.7	
17	816	12.40	23.0	
18	894	18.09	30.7	
19	10,380	75.00	10.9	Upper Marker

Region table for sample 9 : Tayeb 10 C Soni2

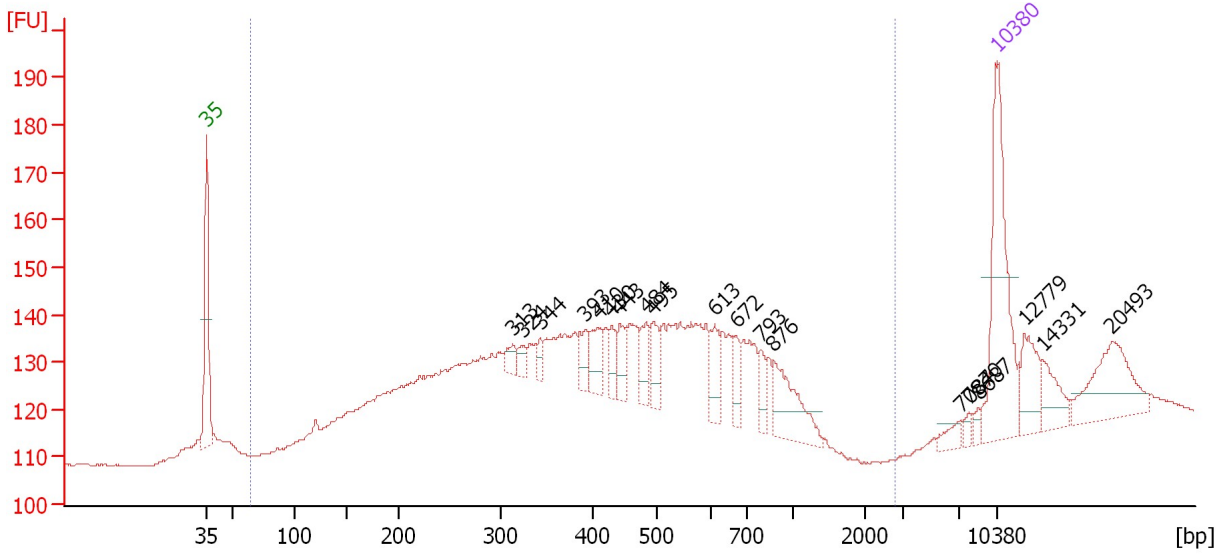
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
100	2,515	837.9	96	425	48.1	1,269.95	6,558.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
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Electropherogram Summary Continued ...

Tayeb 11 C Soni2



Overall Results for sample 10 : Tayeb 11 C Soni2

Number of peaks found: 19 Corr. Area 1: 1,029.1
 Noise: 0.2

Peak table for sample 10 : Tayeb 11 C Soni2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	313	9.35	45.3	
3	324	7.63	35.7	
4	344	7.41	32.7	
5	393	15.25	58.8	
6	410	20.24	74.8	
7	430	11.99	42.2	
8	443	16.99	58.1	
9	484	16.05	50.3	
10	495	18.54	56.8	
11	613	19.59	48.4	
12	672	12.77	28.8	
13	793	10.81	20.7	
14	876	37.56	64.9	
15	7,087	6.66	1.4	
16	7,840	3.23	0.6	
17	8,687	3.06	0.5	
18	10,380	75.00	10.9	Upper Marker
19	12,779	0.00	0.0	
20	14,331	0.00	0.0	
21	20,493	0.00	0.0	

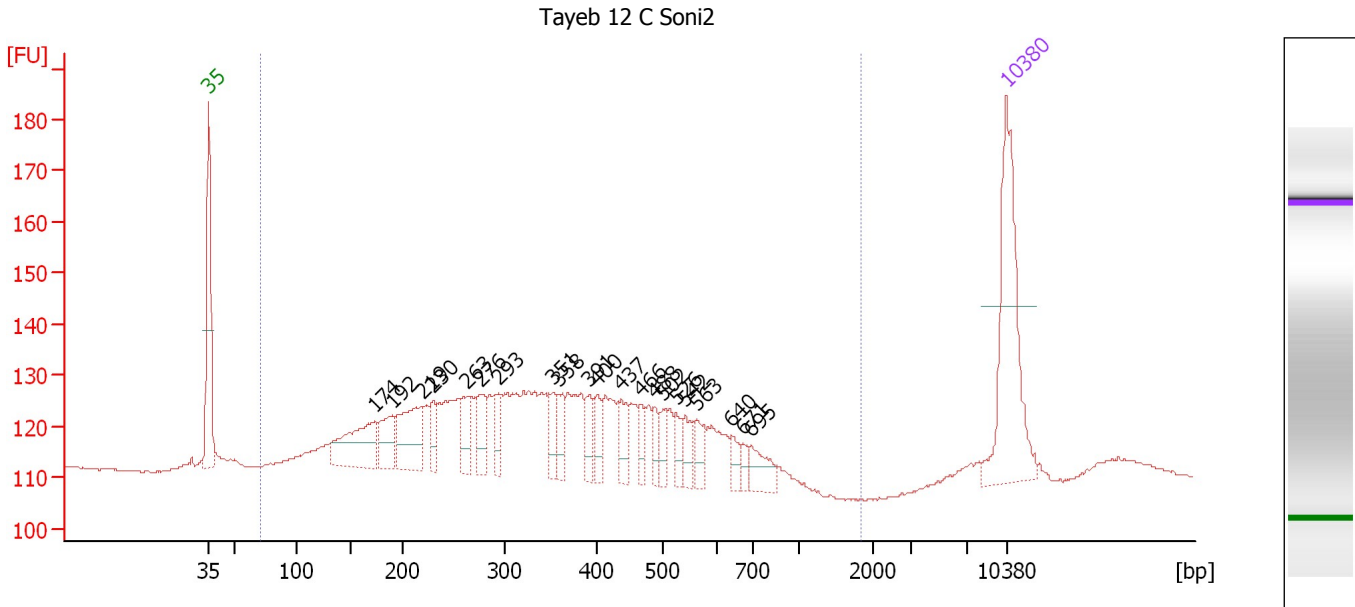
Region table for sample 10 : Tayeb 11 C Soni2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
64	2,817	1,029.1	89	430	46.4	1,091.12	5,529.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
 Modified: 9/5/2014 11:25:55 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Tayeb 12 C Soni2

Number of peaks found: 21 Corr. Area 1: 656.6
 Noise: 0.2

Peak table for sample 11 : Tayeb 12 C Soni2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	174	60.80	530.3	
3	192	30.03	237.5	
4	219	50.01	346.2	
5	230	14.84	97.7	
6	263	20.04	115.3	
7	276	24.71	135.9	
8	293	16.27	84.1	
9	351	14.87	64.1	
10	358	13.57	57.5	
11	391	13.55	52.5	
12	400	14.18	53.7	
13	437	16.67	57.8	
14	466	10.86	35.3	
15	488	11.17	34.7	
16	502	10.91	32.9	
17	526	9.83	28.3	
18	542	12.58	35.2	
19	563	13.51	36.3	
20	640	8.15	19.3	
21	671	5.84	13.2	
22	695	16.48	35.9	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
Modified: 9/5/2014 11:25:55 AM

Electropherogram Summary Continued ...

... Region table for sample 11 :

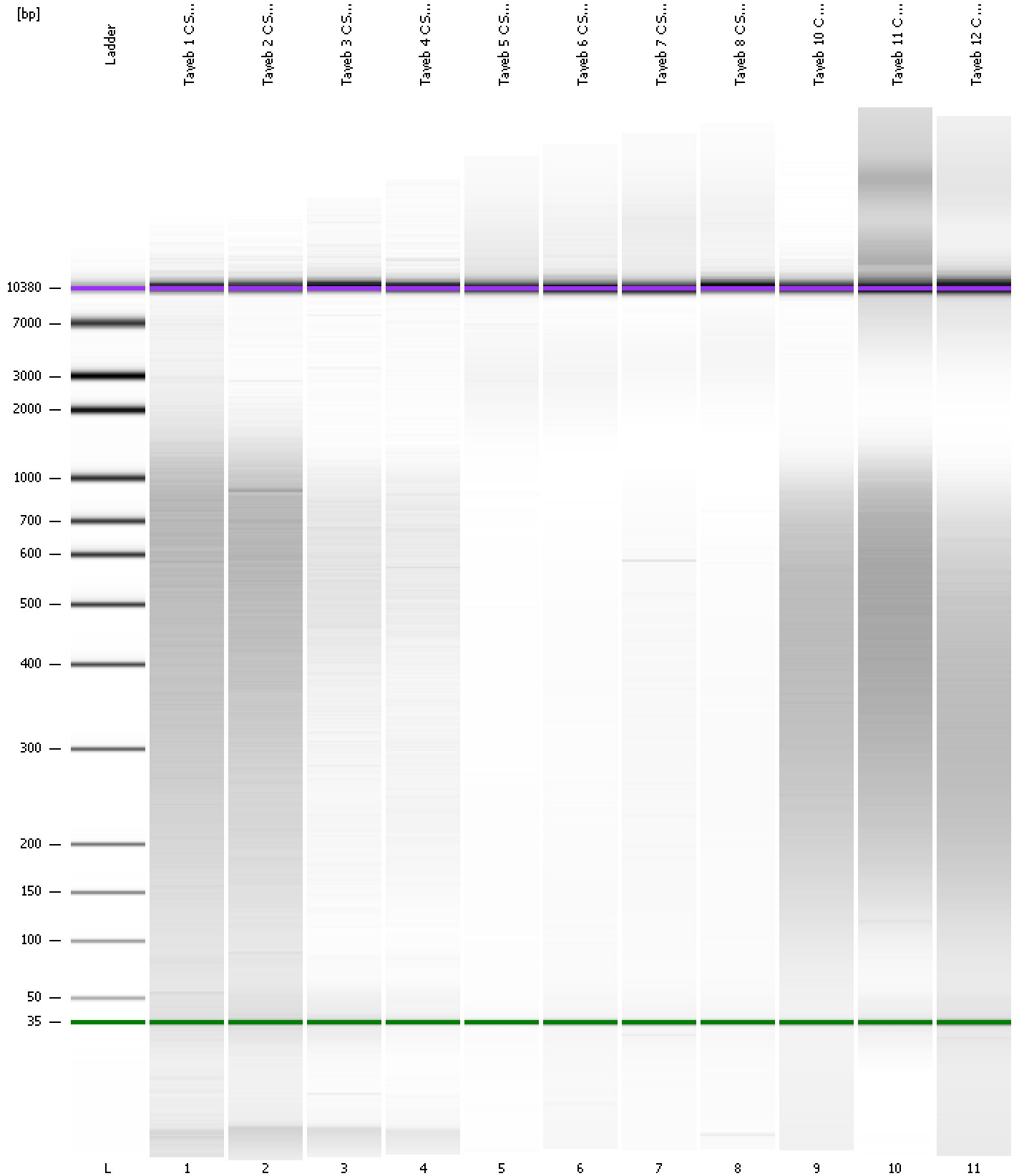
Tayeb 12 C Soni2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
71	1,831	656.6	95	351	41.1	692.34	4,044.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
Modified: 9/5/2014 11:25:55 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad

Created: 9/5/2014 9:40:58 AM
 Modified: 9/5/2014 11:25:55 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		9/5/2014 10:22:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-05\2014-09-05_001.xad)		Instrument	Run		9/5/2014 9:41:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/5/2014 9:41:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/5/2014 9:41:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/5/2014 9:41:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/5/2014 9:41:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/5/2014 9:41:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/5/2014 9:41:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1