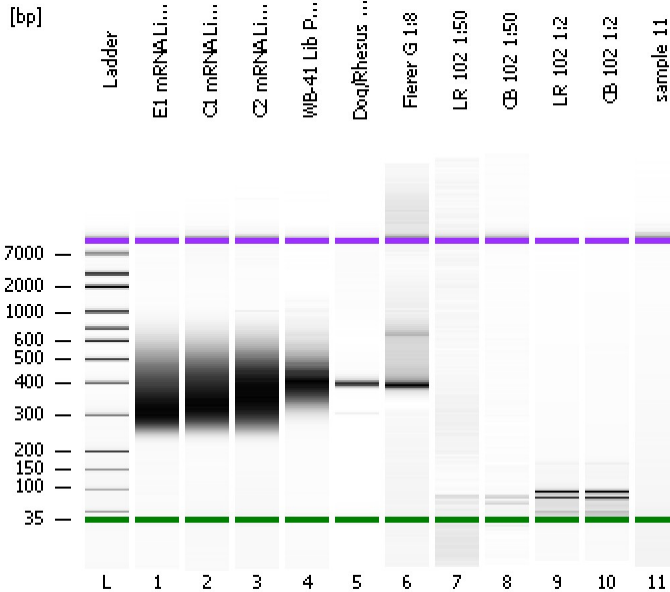


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
Modified: 4/29/2013 4:45:51 PM

Electrophoresis File Run Summary



Instrument Information:

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

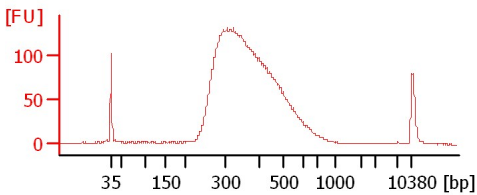
Assay Information:

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

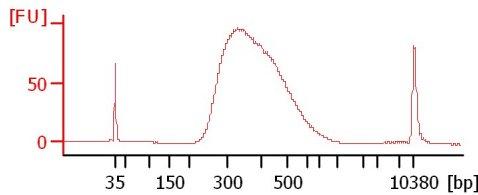
Chip Information:

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

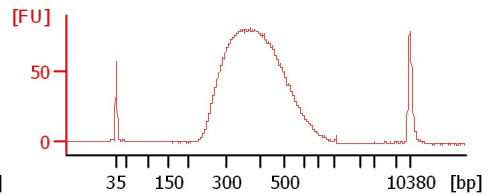
E1 mRNA Lib 1:4



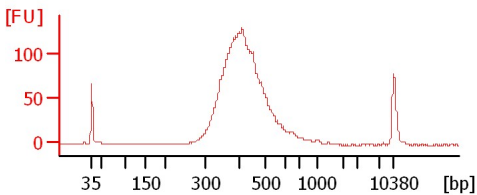
C1 mRNA Lib 1:3



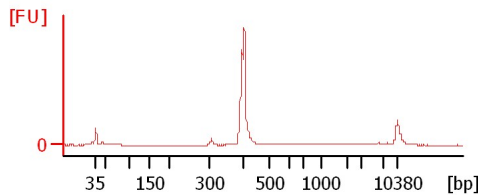
C2 mRNA Lib 1:3



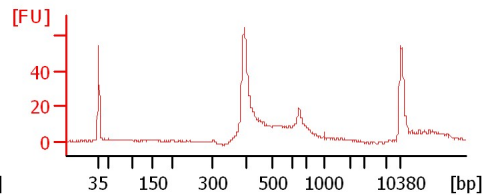
WB-41 Lib Pool 1:5



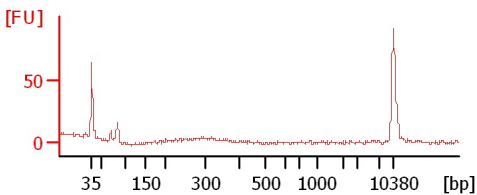
Dog/Rhesus 1:2



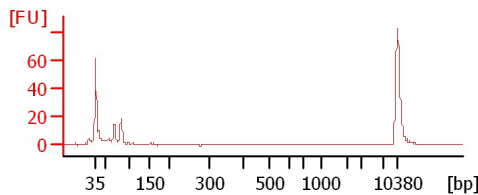
Fierer G 1:8



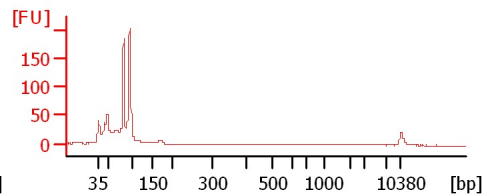
LR 102 1:50



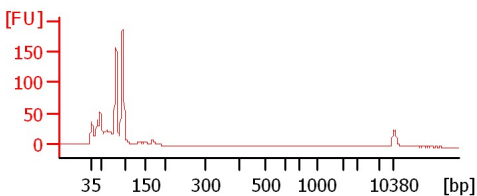
CB 102 1:50



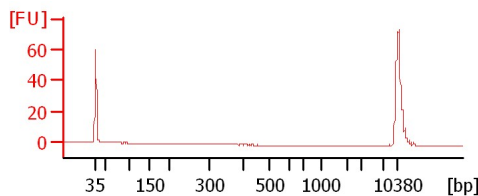
LR 102 1:2



CB 102 1:2



sample 11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
Modified: 4/29/2013 4:45:51 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
E1 mRNA Lib 1:4		<input type="checkbox"/>	✓			
C1 mRNA Lib 1:3		<input type="checkbox"/>	✓			
C2 mRNA Lib 1:3		<input type="checkbox"/>	✓			
WB-41 Lib Pool 1:5		<input type="checkbox"/>	✓			
Dog/Rhesus 1:2		<input type="checkbox"/>	✓			
Fierer G 1:8		<input type="checkbox"/>	✓			
LR 102 1:50		<input type="checkbox"/>	✓			
CB 102 1:50		<input type="checkbox"/>	✓			
LR 102 1:2		<input type="checkbox"/>	✓			
CB 102 1:2		<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\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 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

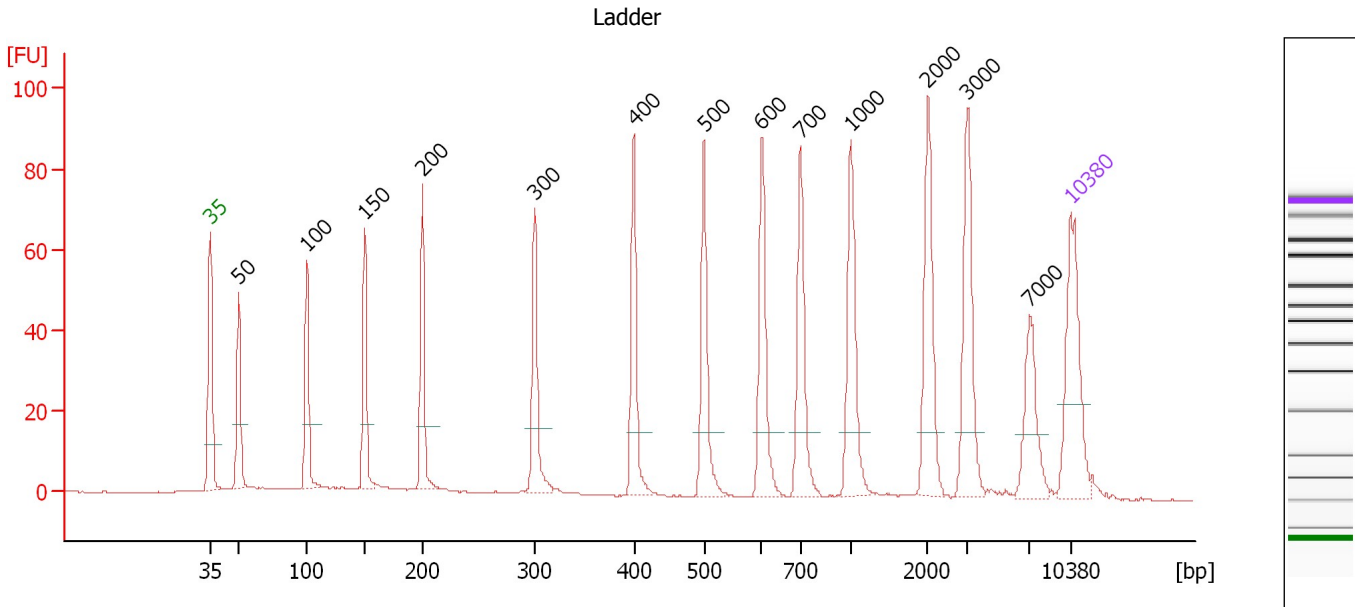
Ladder

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\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

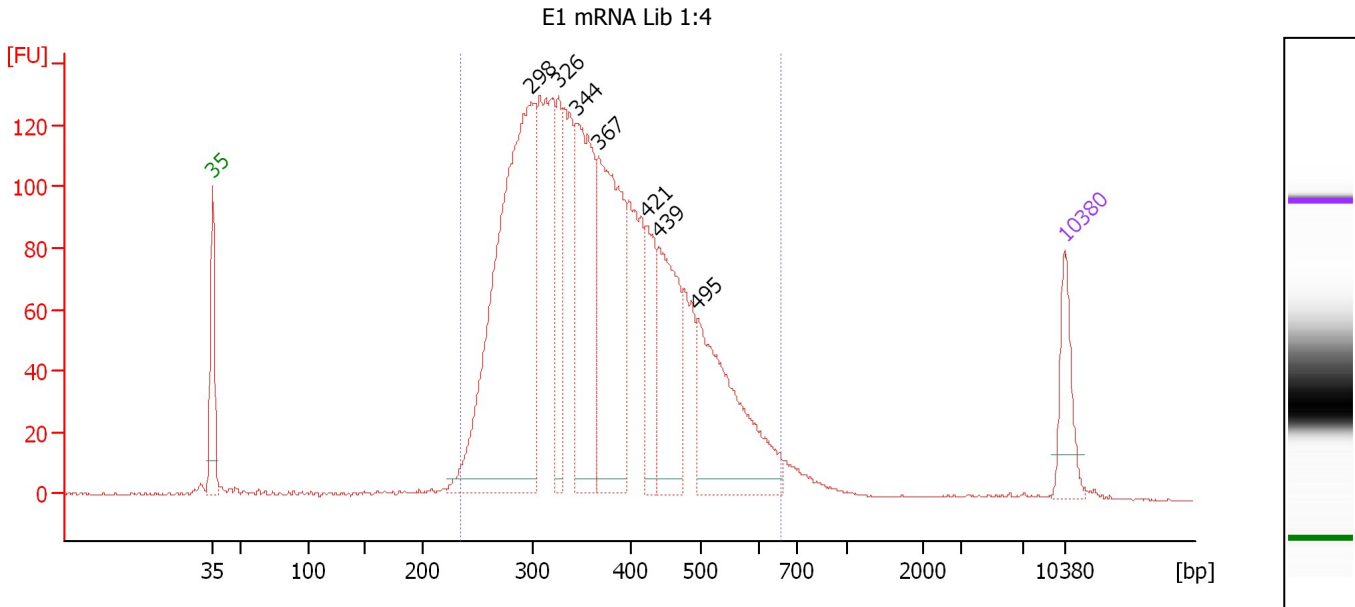
Peak table for Ladder

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\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : E1 mRNA Lib 1:4

Number of peaks found: 7 Corr. Area 1: 2,846.3
 Noise: 0.3

Peak table for sample 1 : E1 mRNA Lib 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	298	1,089.62	5,534.9	
3	326	152.12	707.5	
4	344	419.43	1,846.1	
5	367	489.95	2,025.5	
6	421	147.83	532.1	
7	439	257.75	890.5	
8	495	371.62	1,137.0	
9	10,380	75.00	10.9	Upper Marker

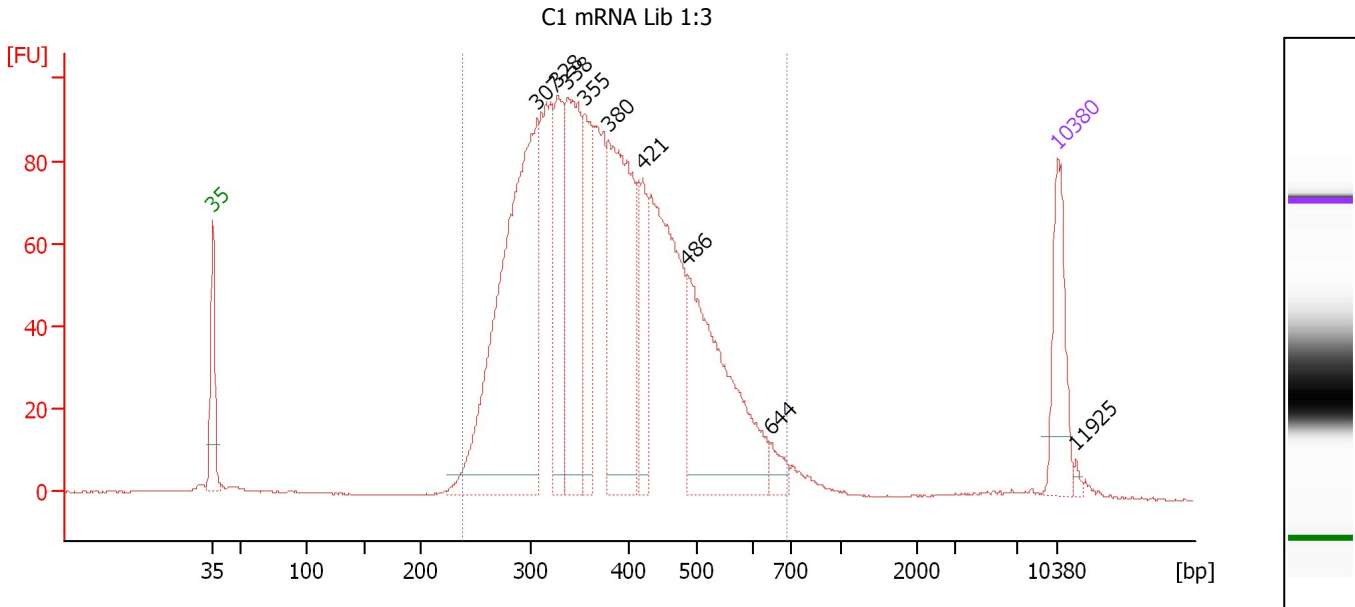
Region table for sample 1 : E1 mRNA Lib 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
234	658	374	17,418.8	4,006.96	2,846.3	96	23.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : C1 mRNA Lib 1:3

Number of peaks found: 9 Corr. Area 1: 2,135.8
 Noise: 0.1

Peak table for sample 2 : C1 mRNA Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	307	641.78	3,170.1	
3	328	167.82	776.3	
4	338	255.06	1,143.5	
5	355	142.33	606.6	
6	380	325.93	1,300.9	
7	421	82.99	298.9	
8	486	313.63	977.2	
9	644	20.17	47.5	
10	10,380	75.00	10.9	Upper Marker
11	11,925	0.00	0.0	

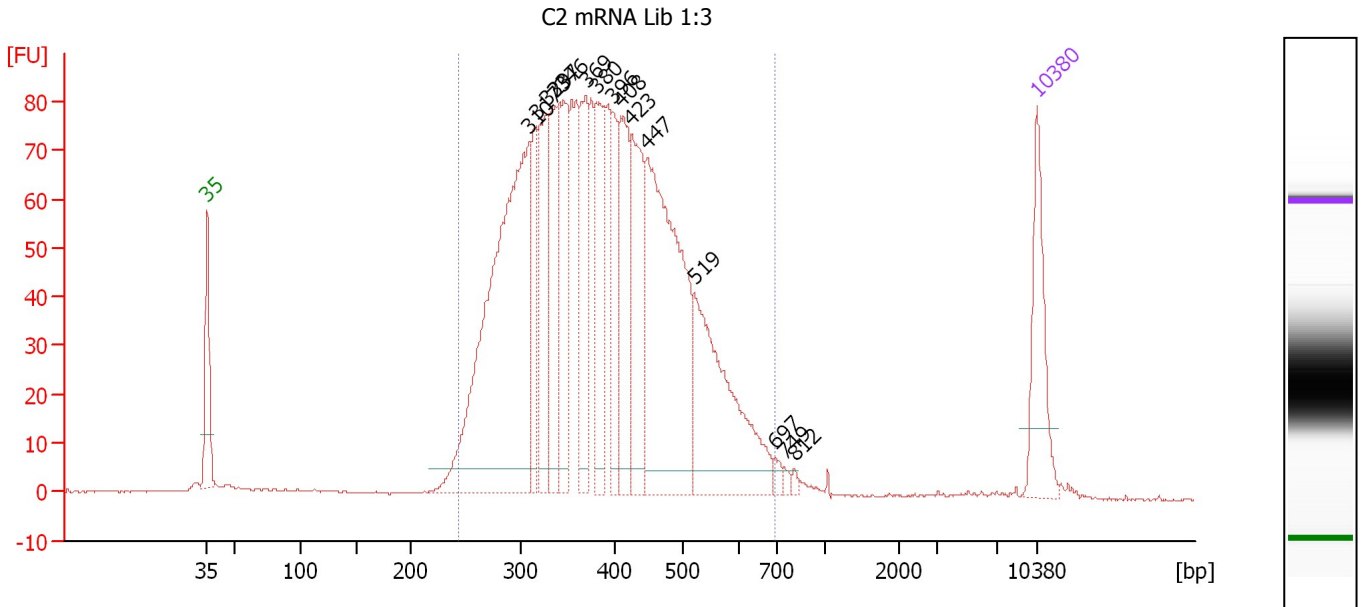
Region table for sample 2 : C1 mRNA Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
238	687	386	11,415.5	2,710.29	2,135.8	96	23.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : C2 mRNA Lib 1:3

Number of peaks found: 15 Corr. Area 1: 1,913.8
 Noise: 0.2

Peak table for sample 3 : C2 mRNA Lib 1:3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	310	602.02	2,942.8	
3	317	91.98	440.1	
4	329	134.75	620.7	
5	337	150.65	676.7	
6	346	128.35	562.6	
7	369	115.50	474.2	
8	380	138.03	550.0	
9	396	80.01	305.8	
10	408	130.51	484.4	
11	423	143.23	512.8	
12	447	383.78	1,301.5	
13	519	232.22	677.3	
14	697	7.36	16.0	
15	749	4.69	9.5	
16	812	3.35	6.3	
17	10,380	75.00	10.9	Upper Marker

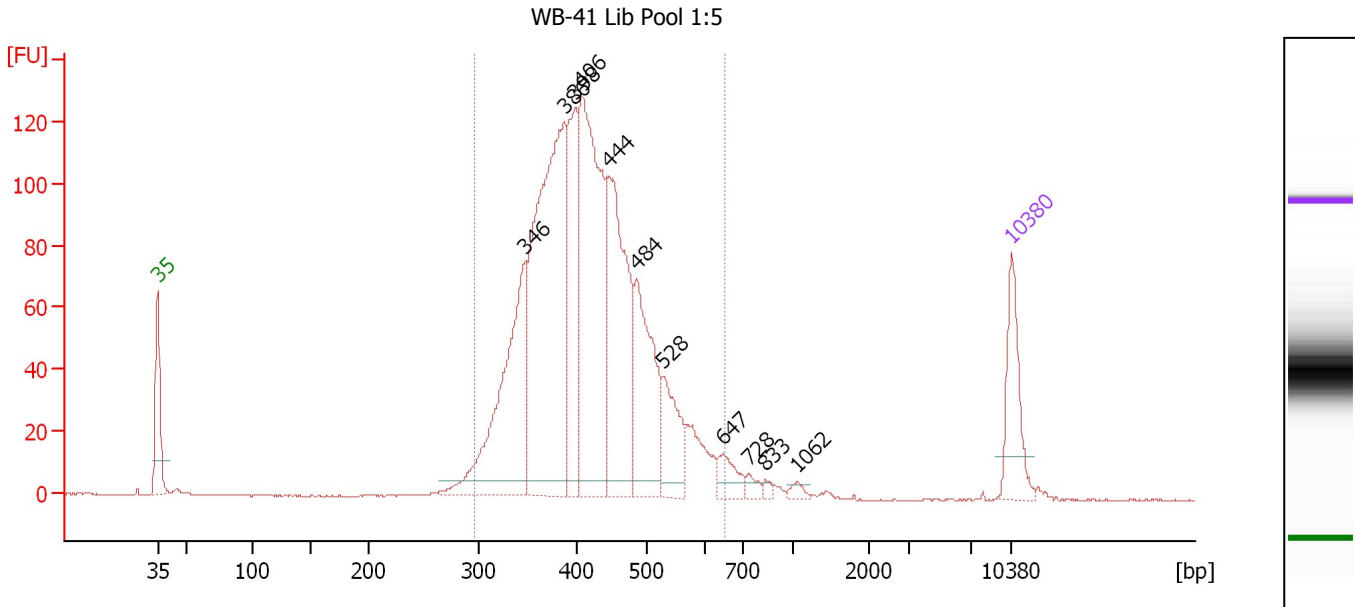
Region table for sample 3 : C2 mRNA Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
243	695	394	10,928.4	2,644.84	1,913.8	96	23.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : WB-41 Lib Pool 1:5

Number of peaks found: 11 Corr. Area 1: 1,727.7
 Noise: 0.2

Peak table for sample 4 : WB-41 Lib Pool 1:5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	346	330.84	1,448.1	
3	386	592.23	2,325.0	
4	398	183.34	698.1	
5	406	439.97	1,642.6	
6	444	324.05	1,105.1	
7	484	199.94	626.5	
8	528	91.06	261.4	
9	647	34.48	80.7	
10	728	11.48	23.9	
11	833	6.17	11.2	
12	1,062	8.43	12.0	
13	10,380	75.00	10.9	Upper Marker

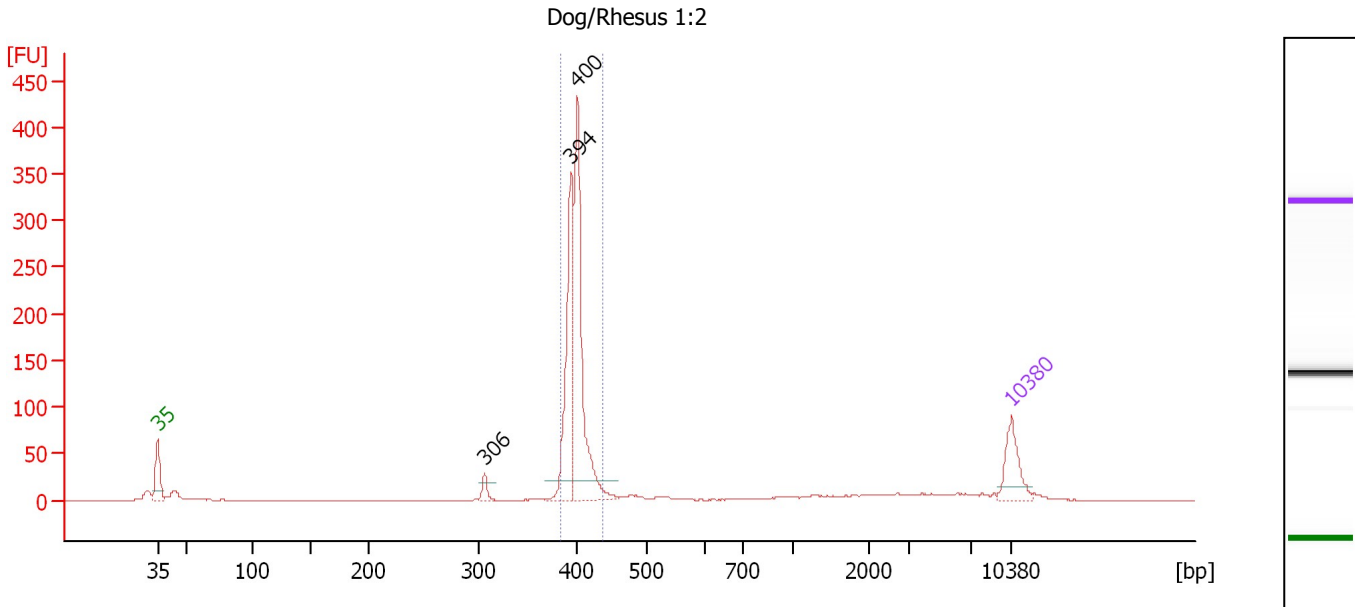
Region table for sample 4 : WB-41 Lib Pool 1:5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
296	650	420	8,407.5	2,259.80	1,727.7	96	16.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : Dog/Rhesus 1:2

Height Threshold [FU] : 20

Overall Results for sample 5 : Dog/Rhesus 1:2

Number of peaks found: 3 Corr. Area 1: 707.7
 Noise: 0.2

Peak table for sample 5 : Dog/Rhesus 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	306	24.17	119.8	
3	394	330.34	1,271.4	
4	400	450.88	1,707.7	
5	10,380	75.00	10.9	Upper Marker

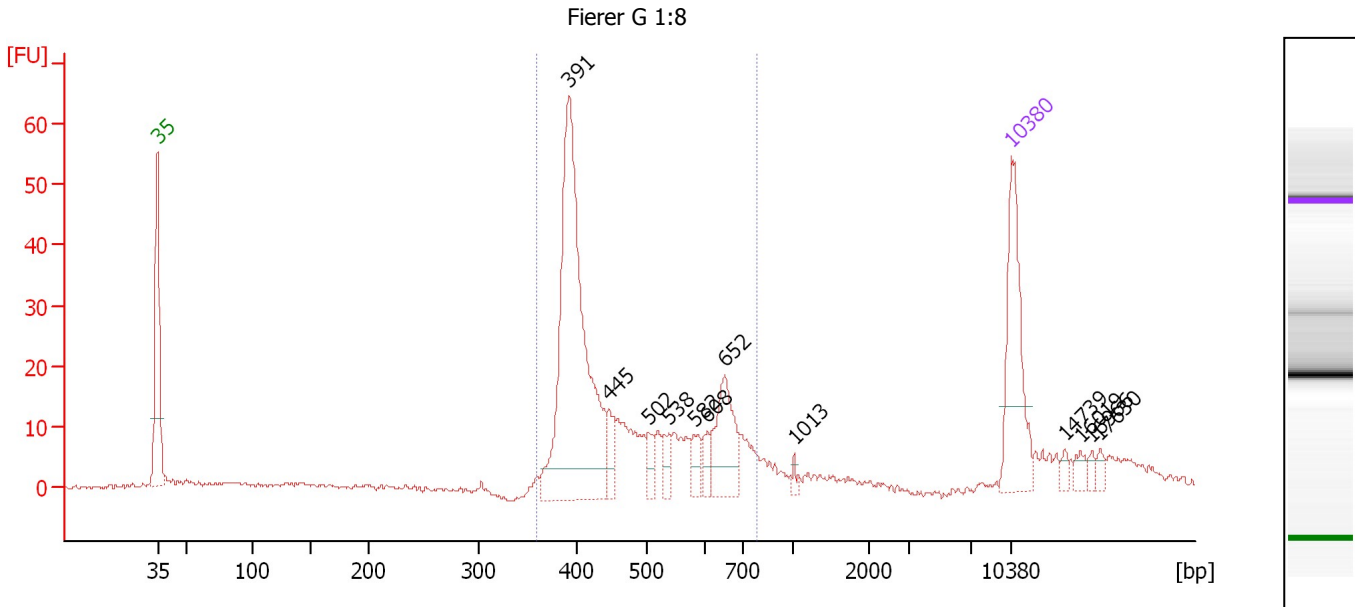
Region table for sample 5 : Dog/Rhesus 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
382	437	399	2,907.7	764.86	707.7	76	2.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Fierer G 1:8

Number of peaks found: 12 Corr. Area 1: 322.5
 Noise: 0.4

Peak table for sample 6 : Fierer G 1:8

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	391	327.11	1,267.2	
3	445	19.53	66.5	
4	502	14.05	42.4	
5	538	14.11	39.8	
6	582	16.10	41.9	
7	608	11.97	29.8	
8	652	60.20	140.0	
9	1,013	3.78	5.7	
10	10,380	75.00	10.9	Upper Marker
11	14,739	0.00	0.0	
12	16,019	0.00	0.0	
13	16,966	0.00	0.0	
14	17,630	0.00	0.0	

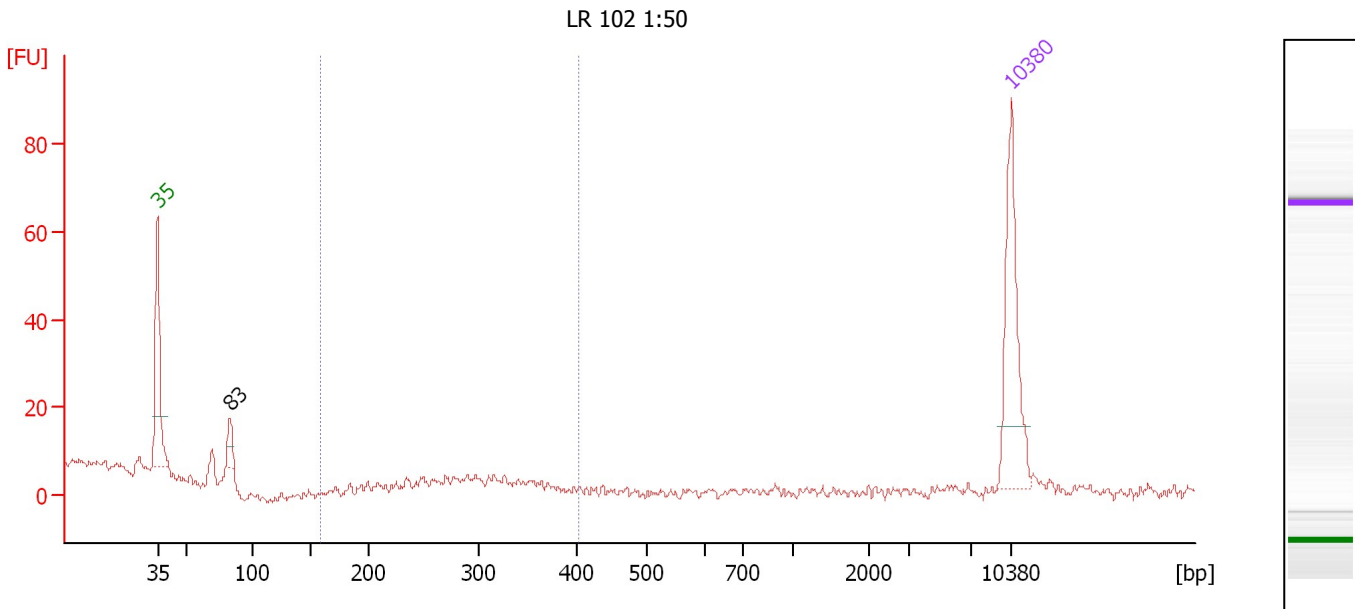
Region table for sample 6 : Fierer G 1:8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
359	783	479	1,768.0	528.11	322.5	76	21.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : LR 102 1:50

Number of peaks found: 1 Corr. Area 1: 7.9
 Noise: 1.2

Peak table for sample 7 : LR 102 1:50

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	83	18.22	334.5	
3	10,380	75.00	10.9	Upper Marker

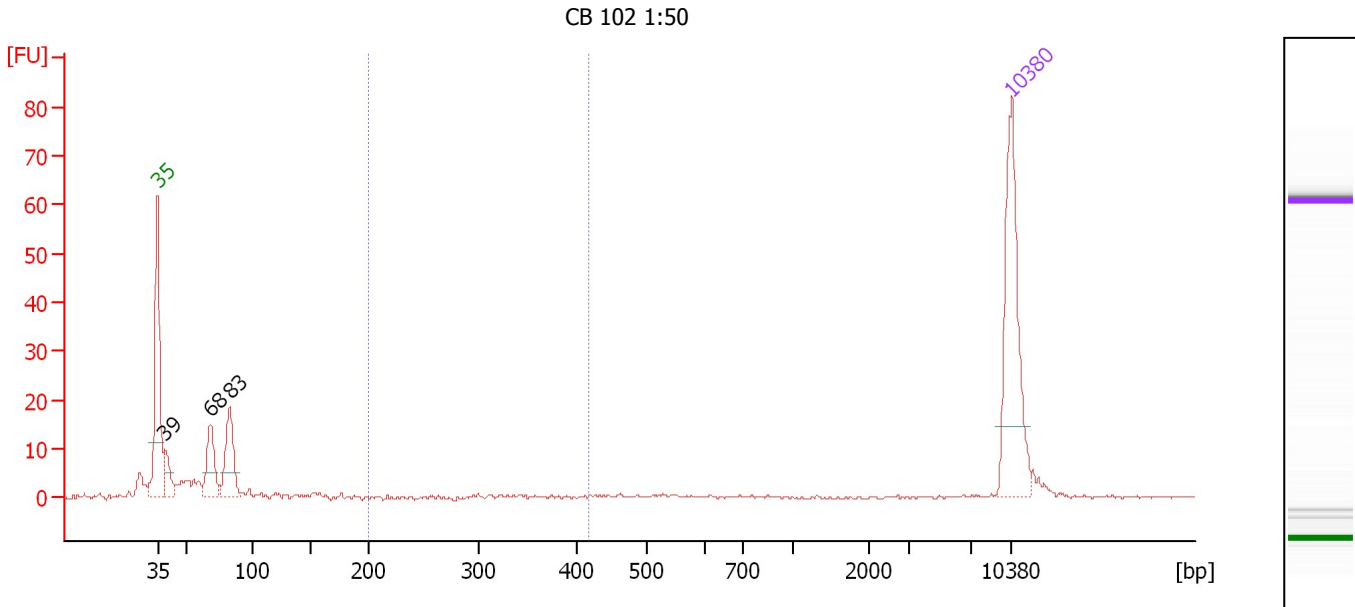
Region table for sample 7 : LR 102 1:50

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
159	403	294	57.9	11.11	7.9	7	10.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CB 102 1:50

Number of peaks found: 3 Corr. Area 1: 4.1
 Noise: 0.2

Peak table for sample 8 : CB 102 1:50

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	25.38	991.0	
3	68	40.51	899.1	
4	83	50.05	916.8	
5	10,380	75.00	10.9	Upper Marker

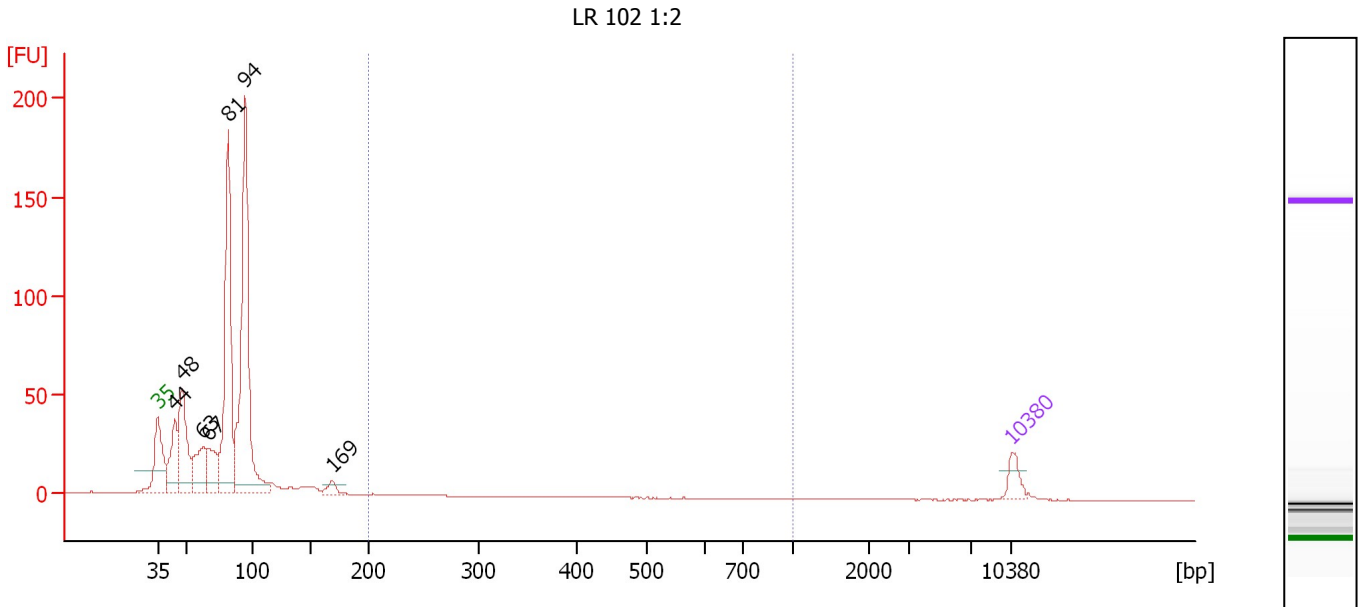
Region table for sample 8 : CB 102 1:50

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	417	316	26.9	5.43	4.1	3	16.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : LR 102 1:2

Number of peaks found: 7 Corr. Area 1: 4.2
 Noise: 0.1

Peak table for sample 9 : LR 102 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	412.61	14,166.6	
3	48	668.85	21,015.6	
4	63	397.71	9,602.4	
5	67	307.87	6,997.4	
6	81	1,595.63	29,686.8	
7	94	2,110.38	34,002.5	
8	169	65.24	584.4	
9	10,380	75.00	10.9	Upper Marker

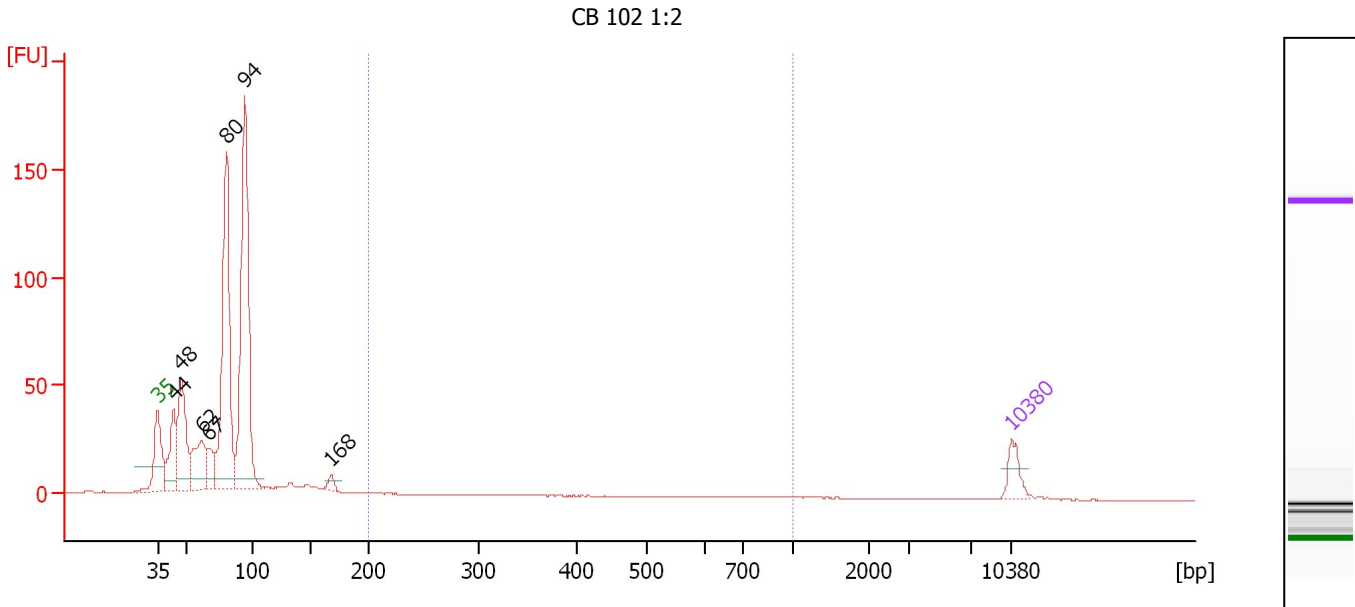
Region table for sample 9 : LR 102 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	227	163.7	24.50	4.2	0	10.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CB 102 1:2

Number of peaks found: 7 Corr. Area 1: 5.0
 Noise: 0.1

Peak table for sample 10 : CB 102 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	322.58	11,217.4	
3	48	527.42	16,753.9	
4	62	335.09	8,226.3	
5	67	144.40	3,245.5	
6	80	1,314.48	24,858.1	
7	94	1,534.45	24,811.8	
8	168	43.03	387.3	
9	10,380	75.00	10.9	Upper Marker

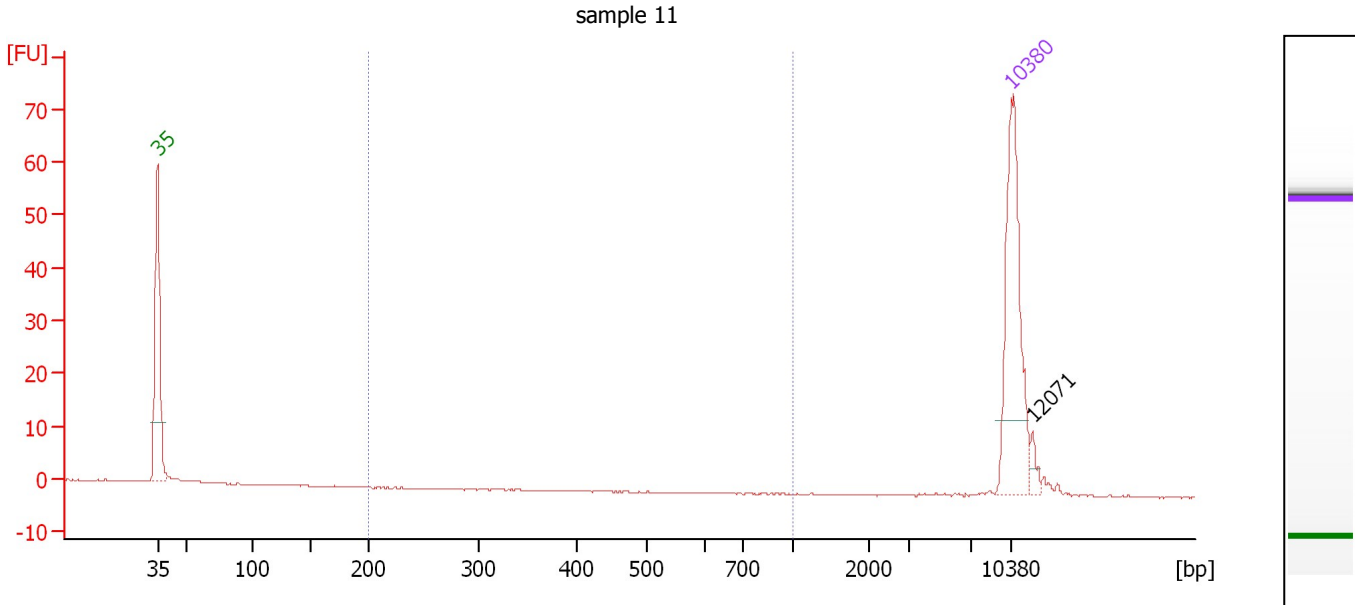
Region table for sample 10 : CB 102 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	405	110.9	21.36	5.0	1	51.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

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

Peak table for sample 11 : sample 11

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	12,071	0.00	0.0	

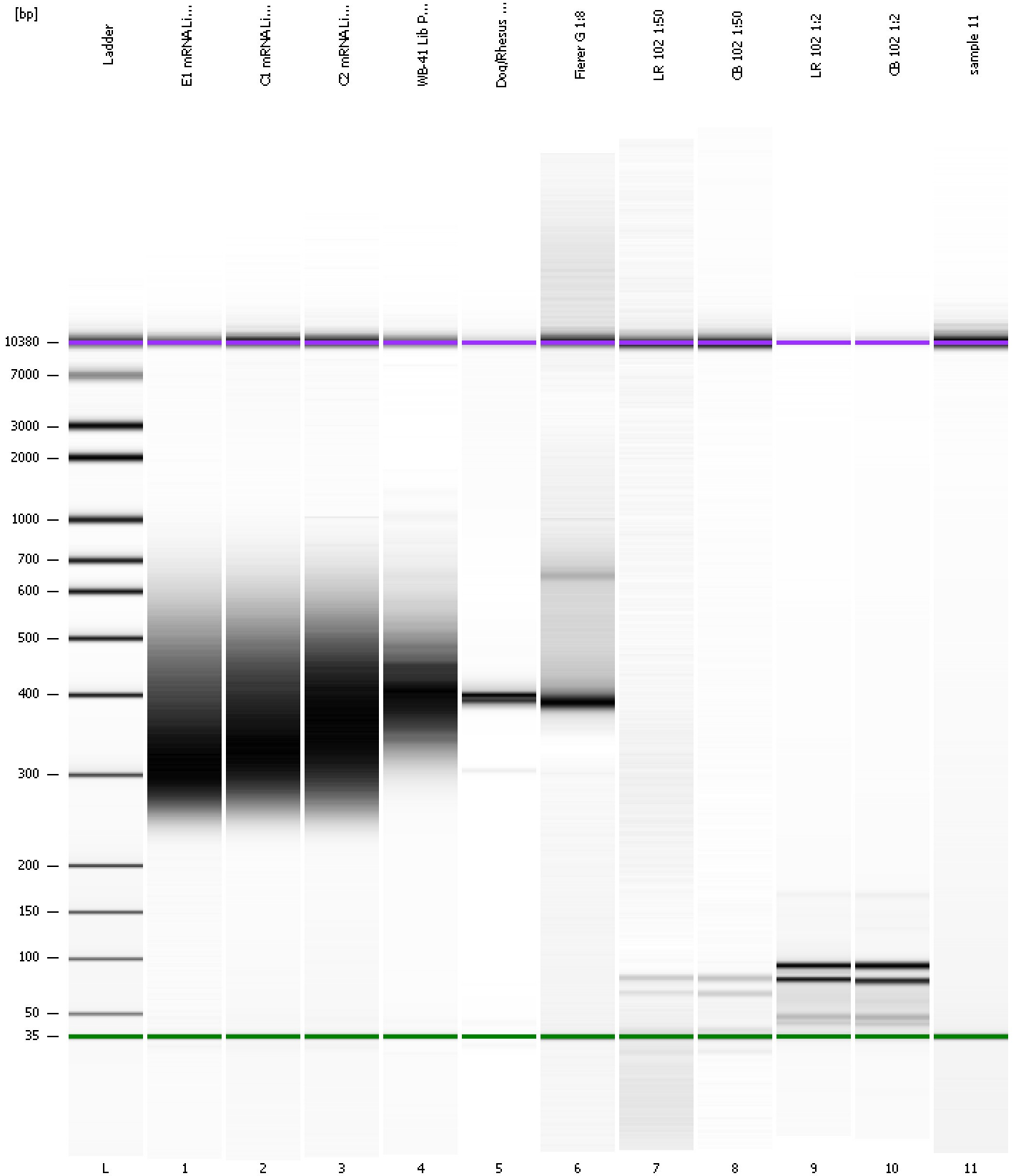
Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	0	0.0	0.00	0.0	0	0.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
Modified: 4/29/2013 4:45:51 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad

Created: 4/29/2013 4:04:28 PM
 Modified: 4/29/2013 4:45:51 PM

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		4/29/2013 4:45:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-29\2013-04-29_001.xad)		Instrument	Run		4/29/2013 4:04:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/29/2013 4:04:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/29/2013 4:04:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/29/2013 4:04:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/29/2013 4:04:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/29/2013 4:04:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/29/2013 4:04:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1