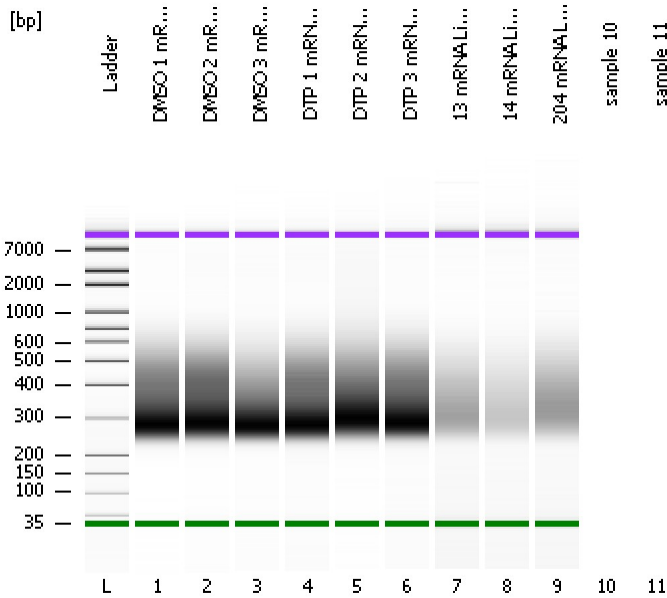


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-08\2013-01-08_003.xad

Created: 1/8/2013 3:53:33 PM
Modified: 1/29/2013 12:15:45 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

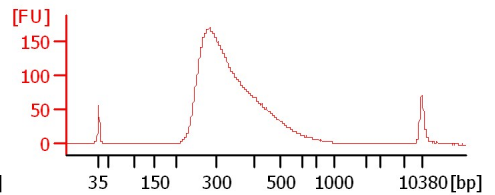
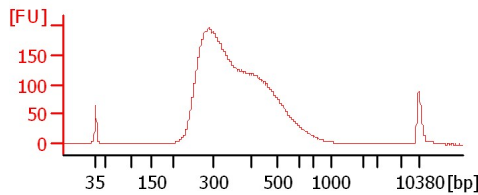
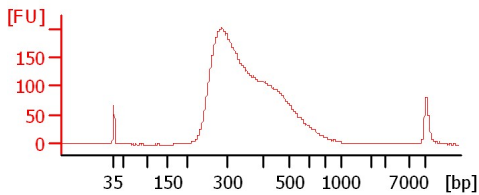
Chip Information:

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

DMSO 1 mRNA Lib 1:2

DMSO 2 mRNA Lib 1:2

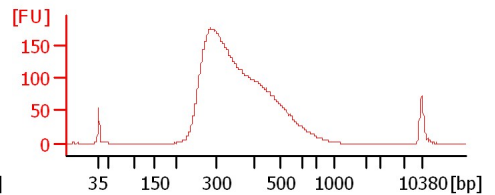
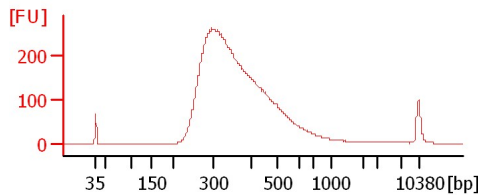
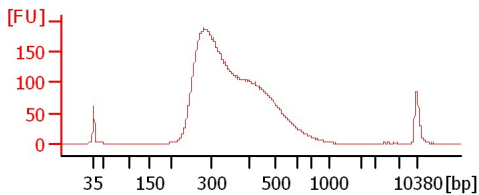
DMSO 3 mRNA Lib 1:3



DTP 1 mRNA Lib 1:2

DTP 2 mRNA Lib 1:3

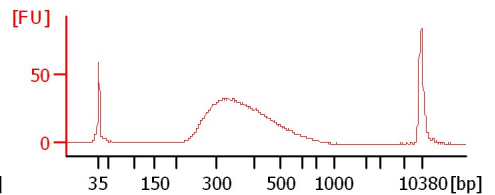
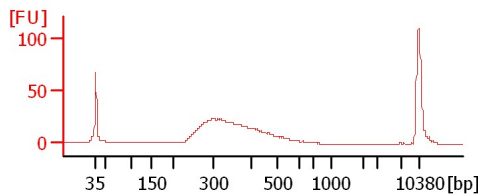
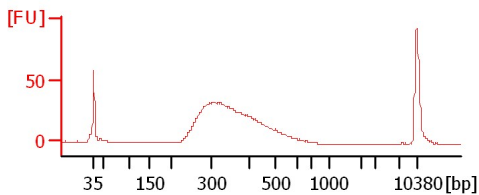
DTP 3 mRNA Lib 1:2



13 mRNA Lib (O'Neil)

14 mRNA Lib (O'Neil)

204 mRNA Lib (O'Neil)



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-08\2013-01-08_003.xad

Created: 1/8/2013 3:53:33 PM
 Modified: 1/29/2013 12:15:45 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
DMSO 1 mRNA Lib 1:2		<input type="checkbox"/>	✓			
DMSO 2 mRNA Lib 1:2		<input type="checkbox"/>	✓			
DMSO 3 mRNA Lib 1:3		<input type="checkbox"/>	✓			
DTP 1 mRNA Lib 1:2		<input type="checkbox"/>	✓			
DTP 2 mRNA Lib 1:3		<input type="checkbox"/>	✓			
DTP 3 mRNA Lib 1:2		<input type="checkbox"/>	✓			
13 mRNA Lib (O'Neil)		<input type="checkbox"/>	✓			
14 mRNA Lib (O'Neil)		<input type="checkbox"/>	✓			
204 mRNA Lib (O'Neil)		<input type="checkbox"/>	✓			
sample 10		<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\2013-01-08\2013-01-08_003.xad

Created: 1/8/2013 3:53:33 PM
 Modified: 1/29/2013 12:15:45 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

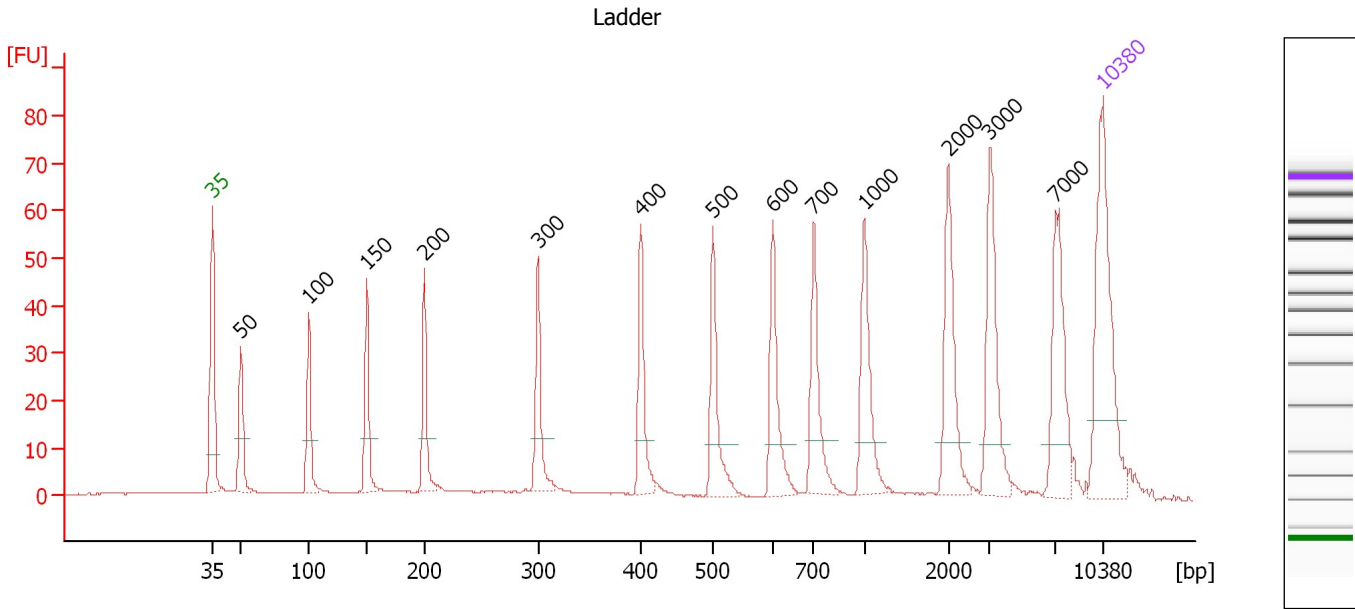
Ladder

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\2013-01-08\2013-01-08_003.xad

Created: 1/8/2013 3:53:33 PM
 Modified: 1/29/2013 12:15:45 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

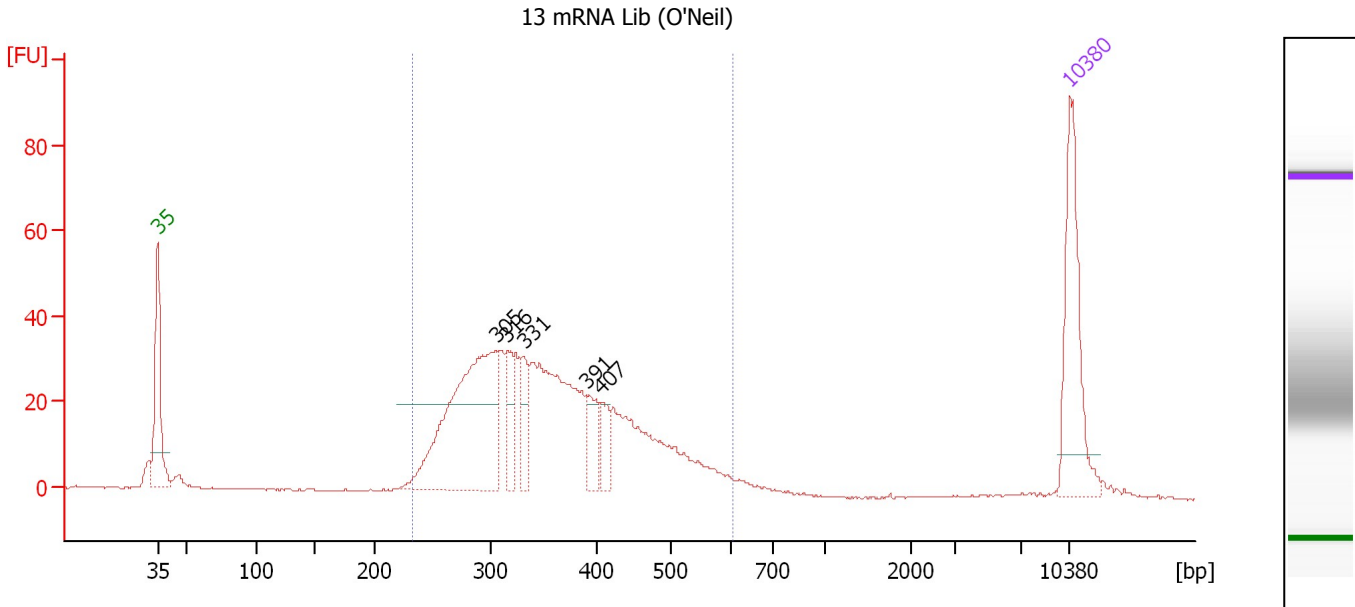
Peak table for Ladder

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\2013-01-08\2013-01-08_003.xad

Created: 1/8/2013 3:53:33 PM
 Modified: 1/29/2013 12:15:45 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : 13 mRNA Lib (O'Neil)

Height Threshold [FU] : 20

Overall Results for sample 7 : 13 mRNA Lib (O'Neil)

Number of peaks found: 5 Corr. Area 1: 662.8
 Noise: 0.2

Peak table for sample 7 : 13 mRNA Lib (O'Neil)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	305	229.44	1,140.8	
3	316	32.73	157.0	
4	331	34.50	157.8	
5	391	29.67	114.9	
6	407	20.41	76.0	
7	10,380	75.00	10.9	Upper Marker

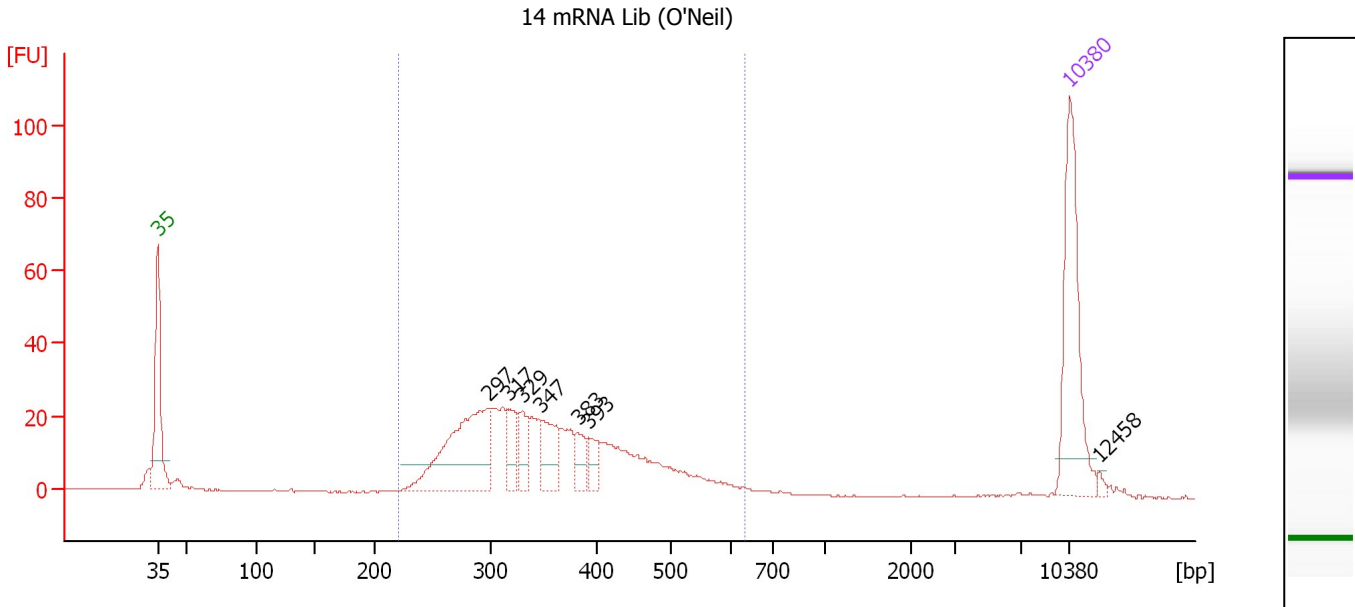
Region table for sample 7 : 13 mRNA Lib (O'Neil)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
232	604	361	3,204.7	717.04	662.8	95	21.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-08\2013-01-08_003.xad

Created: 1/8/2013 3:53:33 PM
 Modified: 1/29/2013 12:15:45 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : 14 mRNA Lib (O'Neil)

Height Threshold [FU] : 7

Overall Results for sample 8 : 14 mRNA Lib (O'Neil)

Number of peaks found: 7 Corr. Area 1: 470.5
 Noise: 0.2

Peak table for sample 8 : 14 mRNA Lib (O'Neil)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	297	124.05	632.3	
3	317	21.90	104.7	
4	329	21.88	100.6	
5	347	35.16	153.5	
6	383	15.76	62.4	
7	393	14.06	54.3	
8	10,380	75.00	10.9	Upper Marker
9	12,458	0.00	0.0	

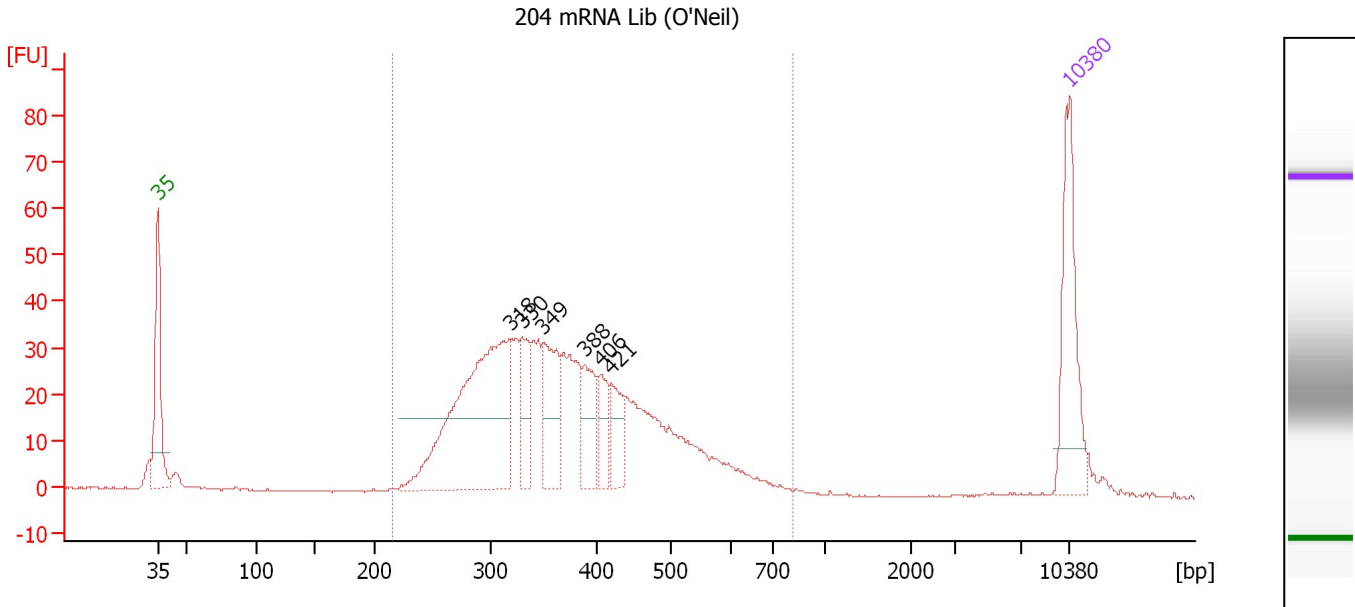
Region table for sample 8 : 14 mRNA Lib (O'Neil)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
220	632	361	1,945.3	433.23	470.5	92	22.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-08\2013-01-08_003.xad

Created: 1/8/2013 3:53:33 PM
 Modified: 1/29/2013 12:15:45 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : 204 mRNA Lib (O'Neil)

Height Threshold [FU] : 15

Overall Results for sample 9 : 204 mRNA Lib (O'Neil)

Number of peaks found: 6 Corr. Area 1: 717.8
 Noise: 0.2

Peak table for sample 9 : 204 mRNA Lib (O'Neil)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	318	284.51	1,356.3	
3	330	48.07	220.9	
4	349	73.35	318.2	
5	388	48.74	190.1	
6	406	31.58	117.8	
7	421	35.60	128.2	
8	10,380	75.00	10.9	Upper Marker

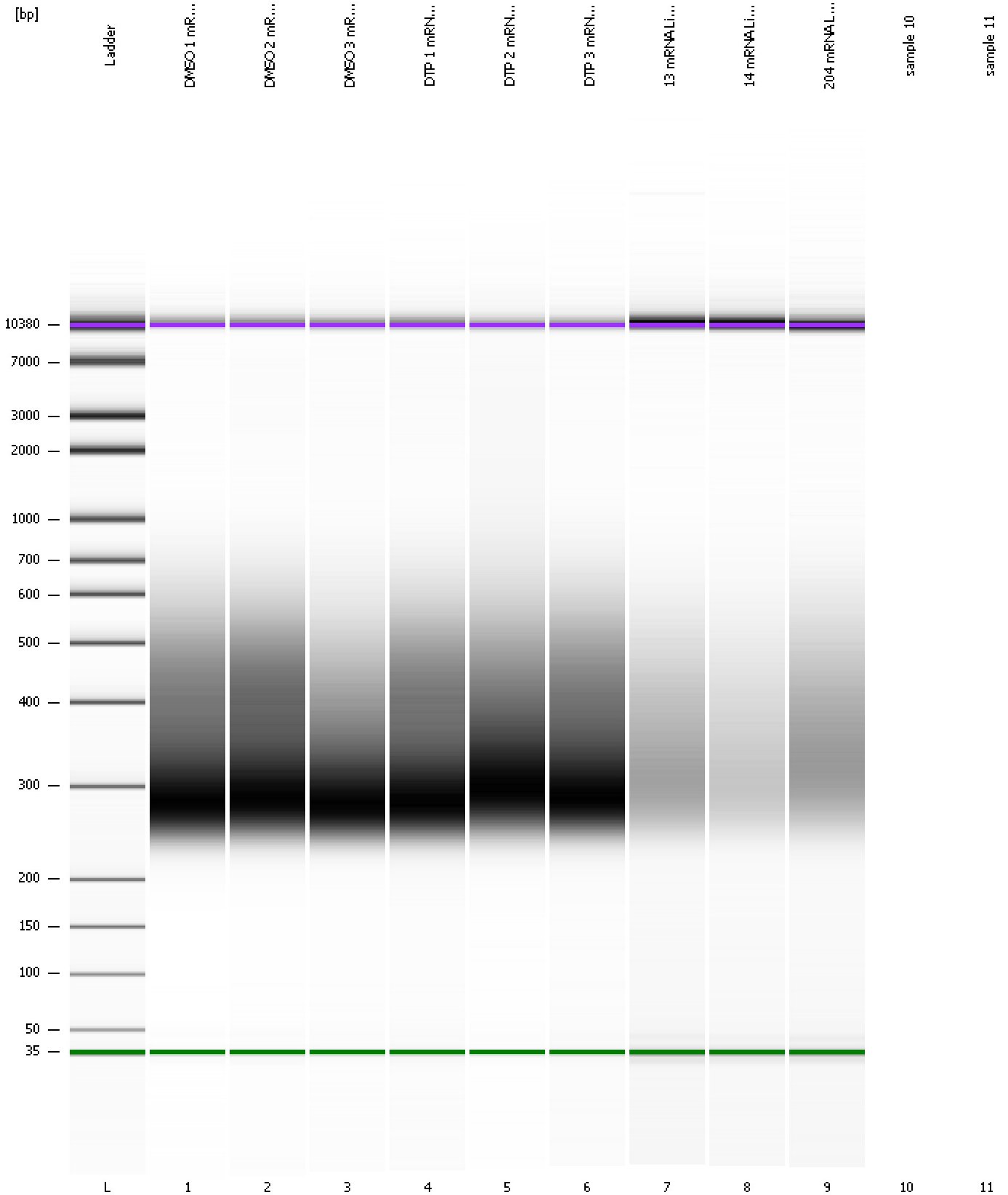
Region table for sample 9 : 204 mRNA Lib (O'Neil)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
215	816	379	3,858.4	895.49	717.8	96	24.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-08\2013-01-08_003.xad

Created: 1/8/2013 3:53:33 PM
Modified: 1/29/2013 12:15:45 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-08\2013-01-08_003.xad

Created: 1/8/2013 3:53:33 PM
 Modified: 1/29/2013 12:15:45 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		1/8/2013 4:29:08 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-01-08\2013-01-08_003.xad)		Instrument	Run		1/8/2013 3:53:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/8/2013 3:53:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/8/2013 3:53:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/8/2013 3:53:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/8/2013 3:53:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/8/2013 3:53:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/8/2013 3:53:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1