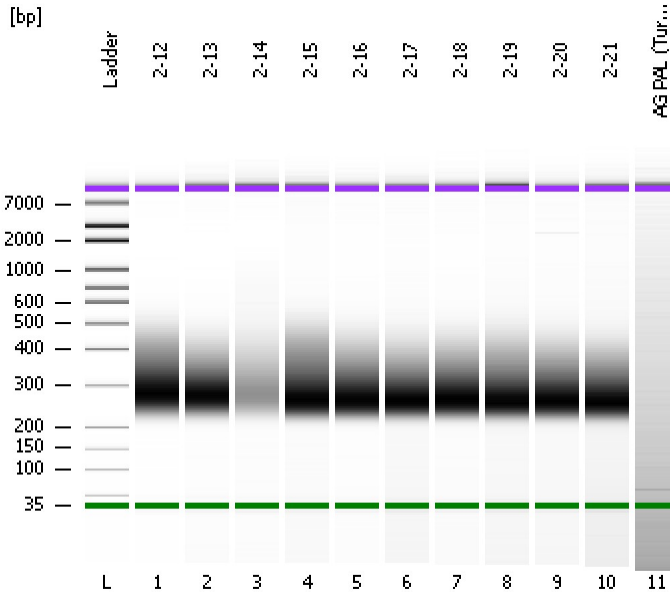


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
Modified: 9/16/2014 11:09:54 AM

Electrophoresis File Run Summary



Instrument Information:

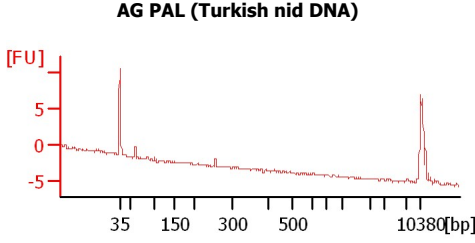
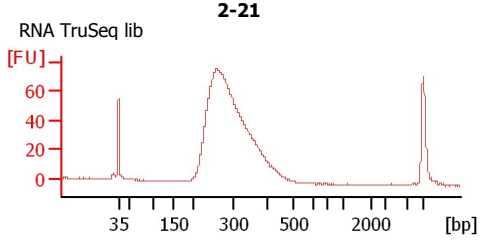
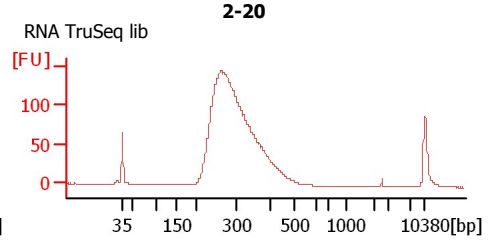
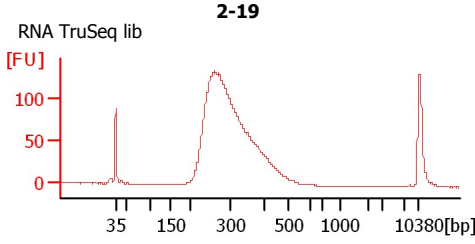
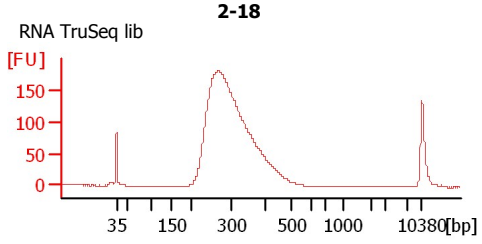
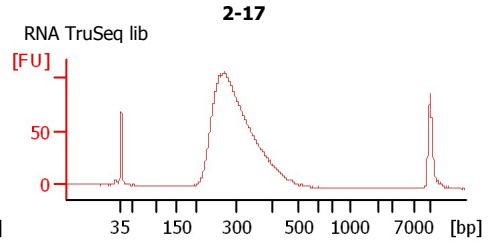
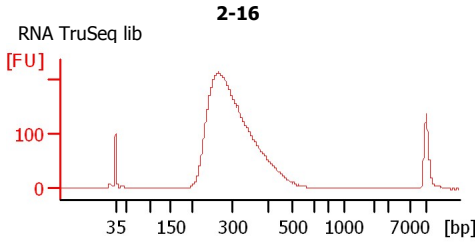
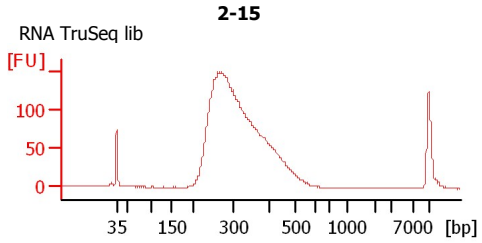
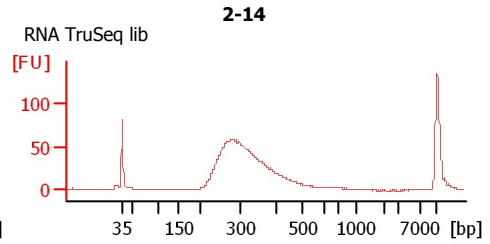
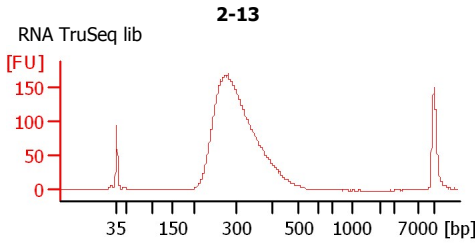
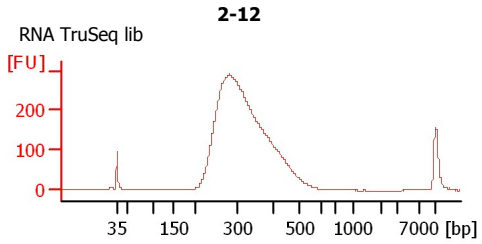
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
2-12	RNA TruSeq lib	<input type="checkbox"/>	✓			
2-13	RNA TruSeq lib	<input type="checkbox"/>	✓			
2-14	RNA TruSeq lib	<input type="checkbox"/>	✓			
2-15	RNA TruSeq lib	<input type="checkbox"/>	✓			
2-16	RNA TruSeq lib	<input type="checkbox"/>	✓			
2-17	RNA TruSeq lib	<input type="checkbox"/>	✓			
2-18	RNA TruSeq lib	<input type="checkbox"/>	✓			
2-19	RNA TruSeq lib	<input type="checkbox"/>	✓			
2-20	RNA TruSeq lib	<input type="checkbox"/>	✓			
2-21	RNA TruSeq lib	<input type="checkbox"/>	✓			
AG PAL (Turkish nid DNA)		<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\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
Modified: 9/16/2014 11:09:54 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

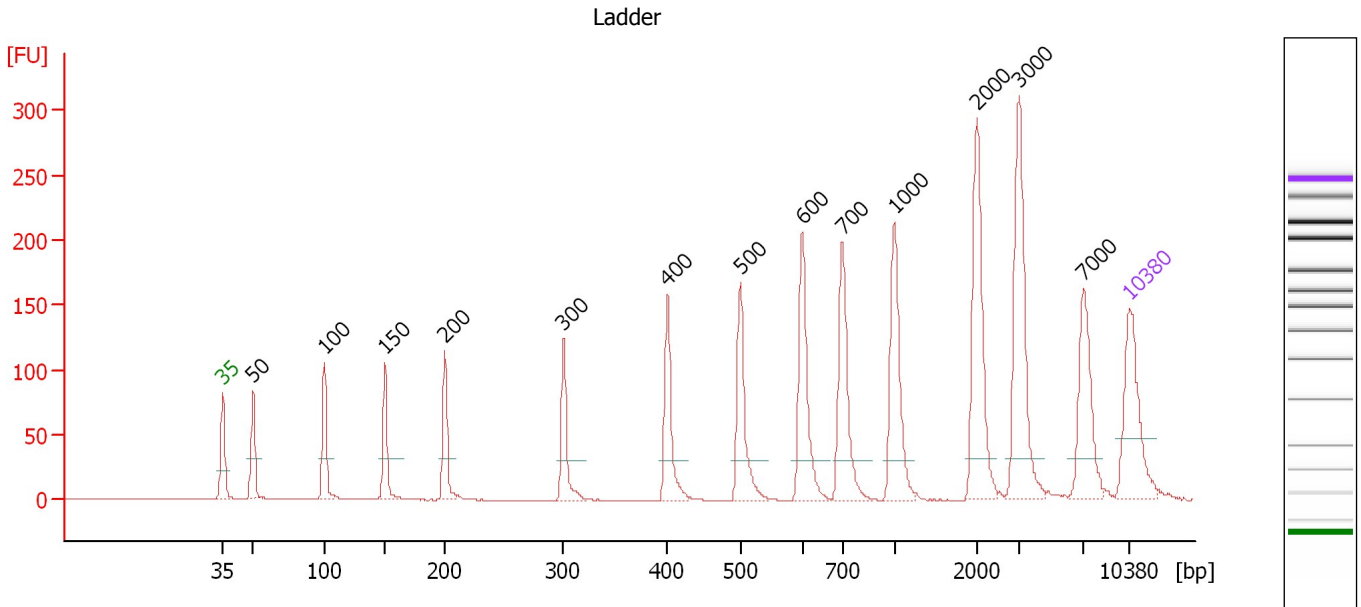
Ladder

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\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

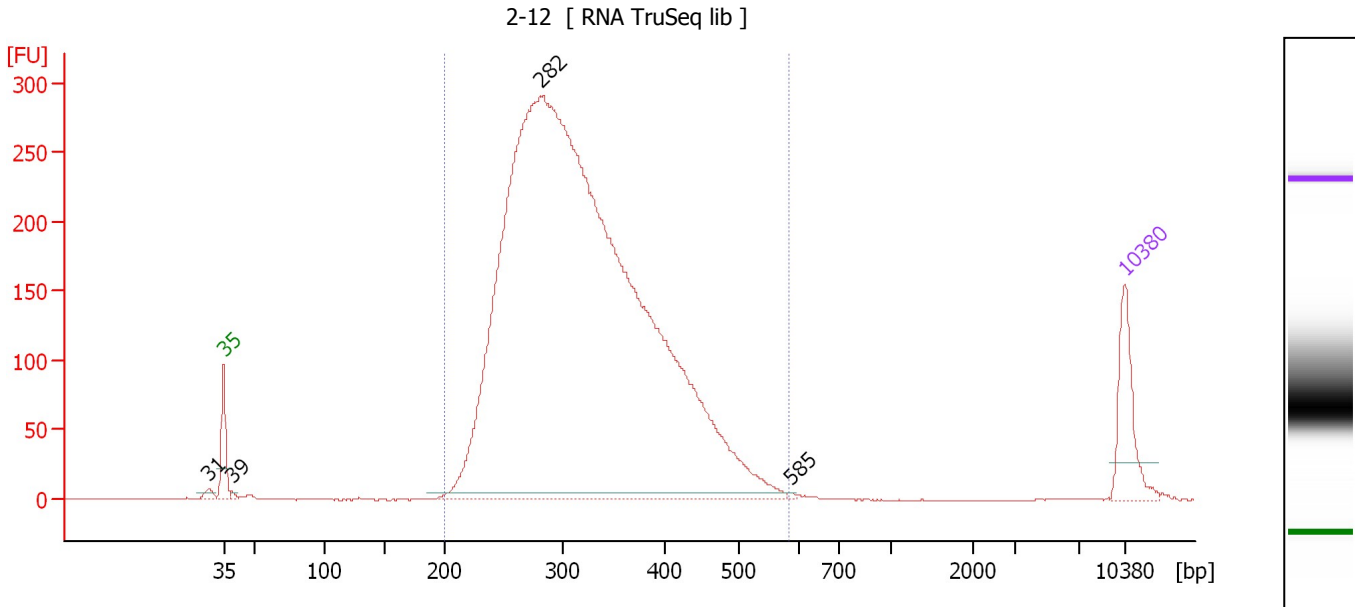
Peak table for Ladder

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\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 2-12

Number of peaks found: 4 Corr. Area 1: 5,239.9
 Noise: 0.2

Peak table for sample 1 : 2-12

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	39	6.18	240.1	
4	282	3,675.25	19,772.5	
5	585	2.06	5.3	
6	10,380	75.00	10.9	Upper Marker

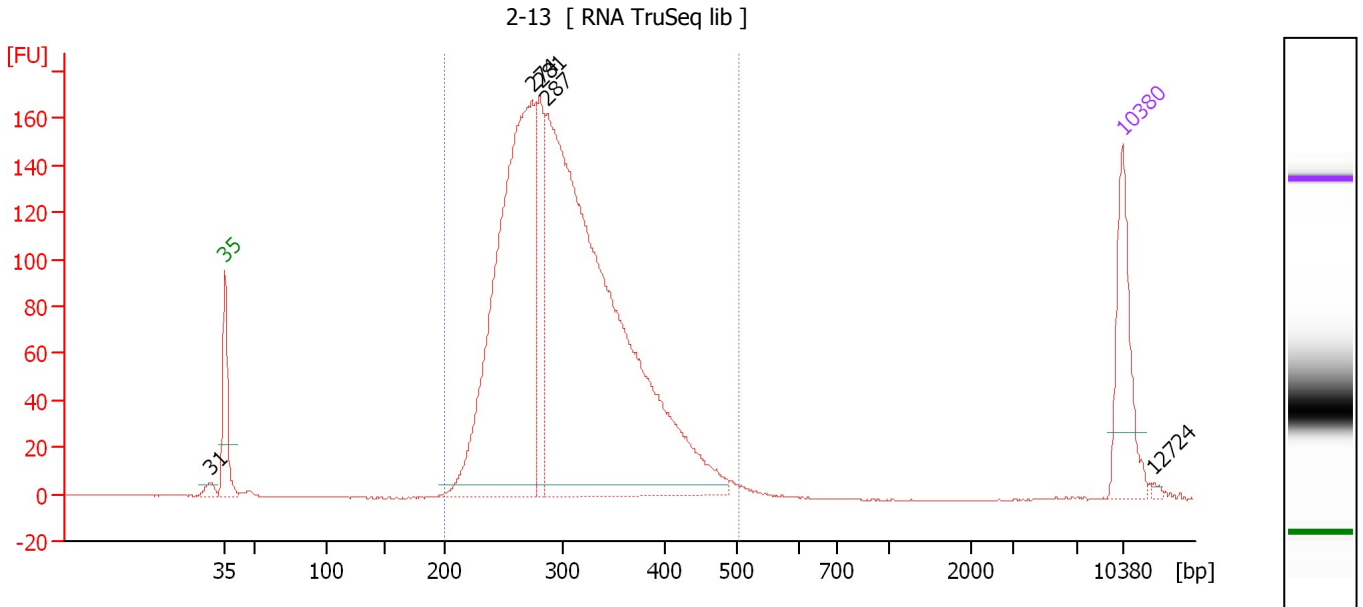
Region table for sample 1 : 2-12

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	324	582	5,239.9	99	20.4	3,385.22	16,688.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2-13

Number of peaks found: 5 Corr. Area 1: 2,599.5
 Noise: 0.2

Peak table for sample 2 : 2-13

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	274	687.09	3,794.0	
4	281	134.87	726.6	
5	287	1,103.62	5,823.4	
6	10,380	75.00	10.9	Upper Marker
7	12,724	0.00	0.0	

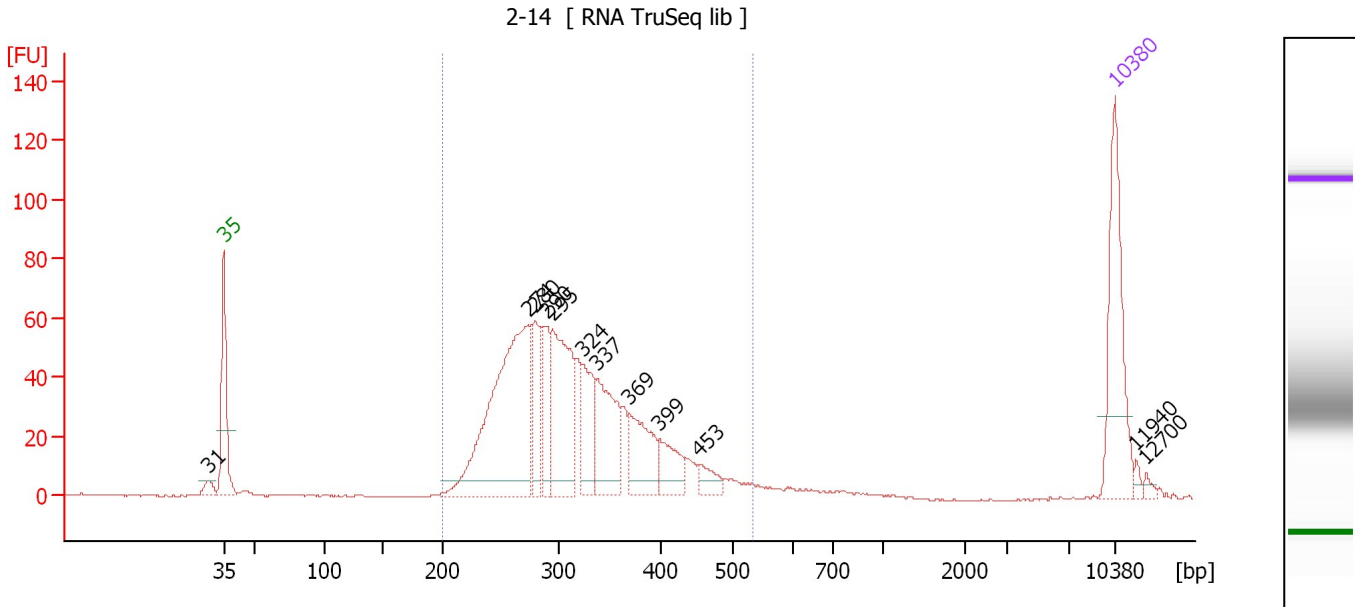
Region table for sample 2 : 2-13

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	306	502	2,599.5	99	17.4	1,852.15	9,492.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 2-14

Number of peaks found: 12 Corr. Area 1: 1,017.4
 Noise: 0.2

Peak table for sample 3 : 2-14

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	274	275.06	1,521.1	
4	280	55.16	298.5	
5	290	49.69	260.0	
6	295	125.65	646.2	
7	324	54.85	256.4	
8	337	79.40	356.8	
9	369	58.04	238.3	
10	399	32.07	121.8	
11	453	14.90	49.8	
12	10,380	75.00	10.9	Upper Marker
13	11,940	0.00	0.0	
14	12,700	0.00	0.0	

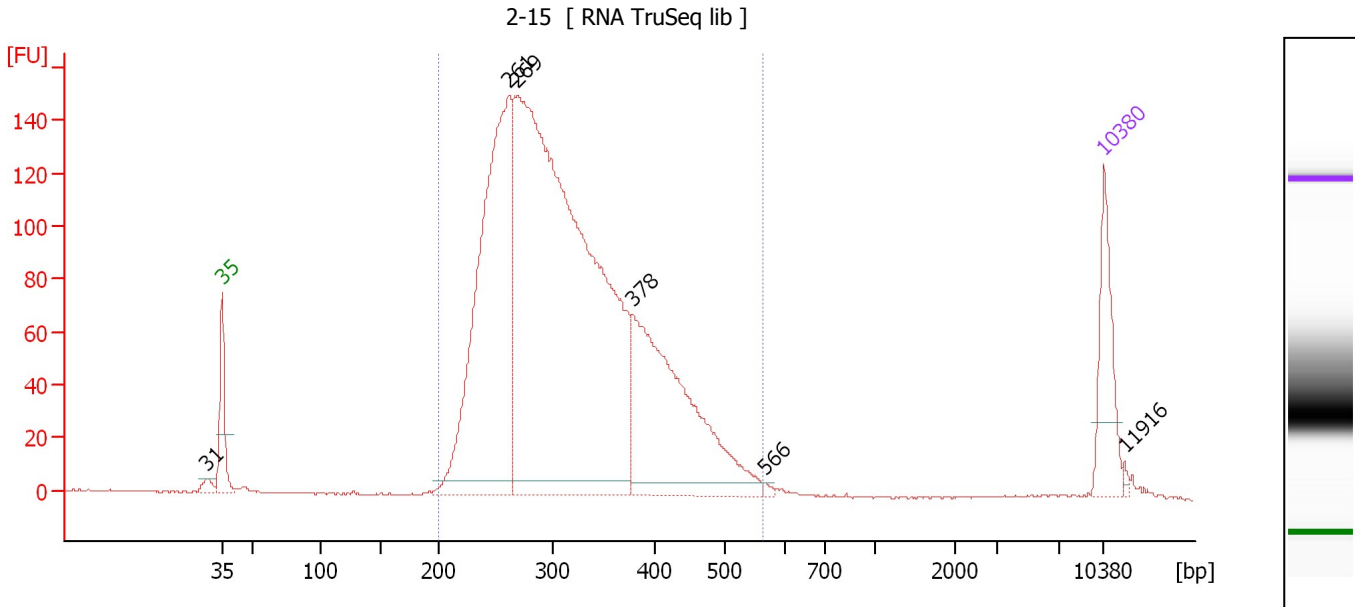
Region table for sample 3 : 2-14

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	317	533	1,017.4	95	19.8	836.92	4,194.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 2-15

Number of peaks found: 6 Corr. Area 1: 2,724.0
 Noise: 0.3

Peak table for sample 4 : 2-15

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	261	702.13	4,077.1	
4	269	1,571.43	8,857.6	
5	378	428.38	1,717.7	
6	566	3.37	9.0	
7	10,380	75.00	10.9	Upper Marker
8	11,916	0.00	0.0	

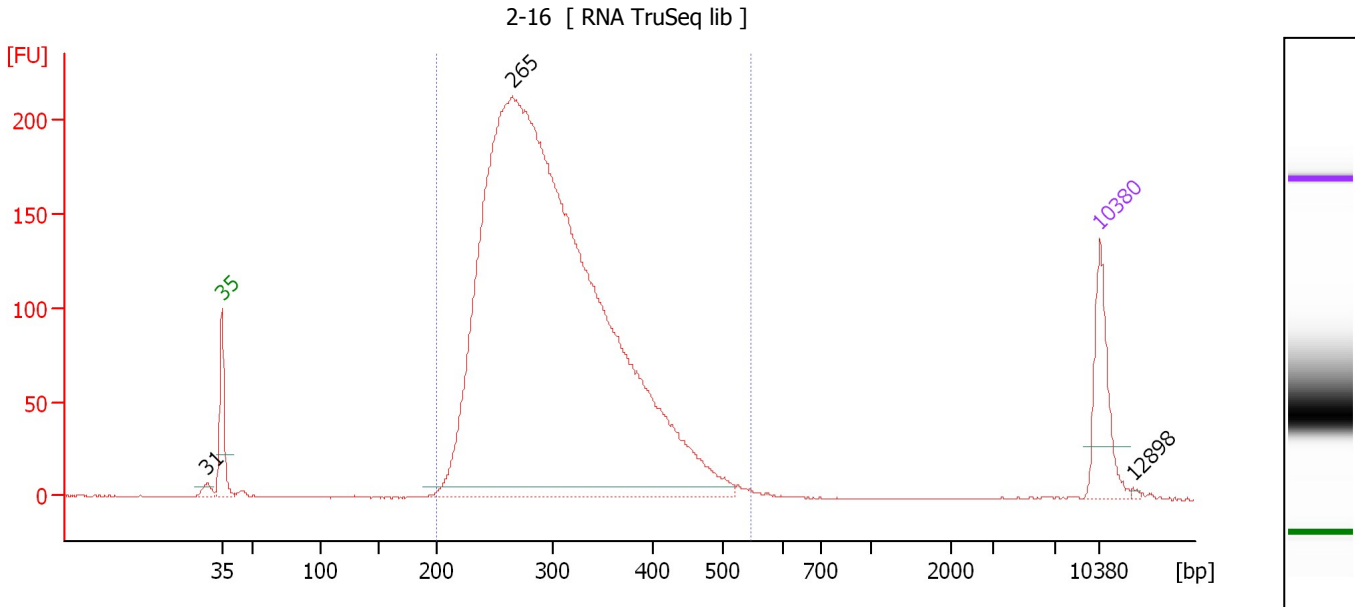
Region table for sample 4 : 2-15

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	318	563	2,724.0	99	21.7	2,525.20	12,753.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 2-16

Number of peaks found: 3 Corr. Area 1: 3,460.3
 Noise: 0.2

Peak table for sample 5 : 2-16

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	265	2,900.18	16,557.2	
4	10,380	75.00	10.9	Upper Marker
5	12,898	0.00	0.0	

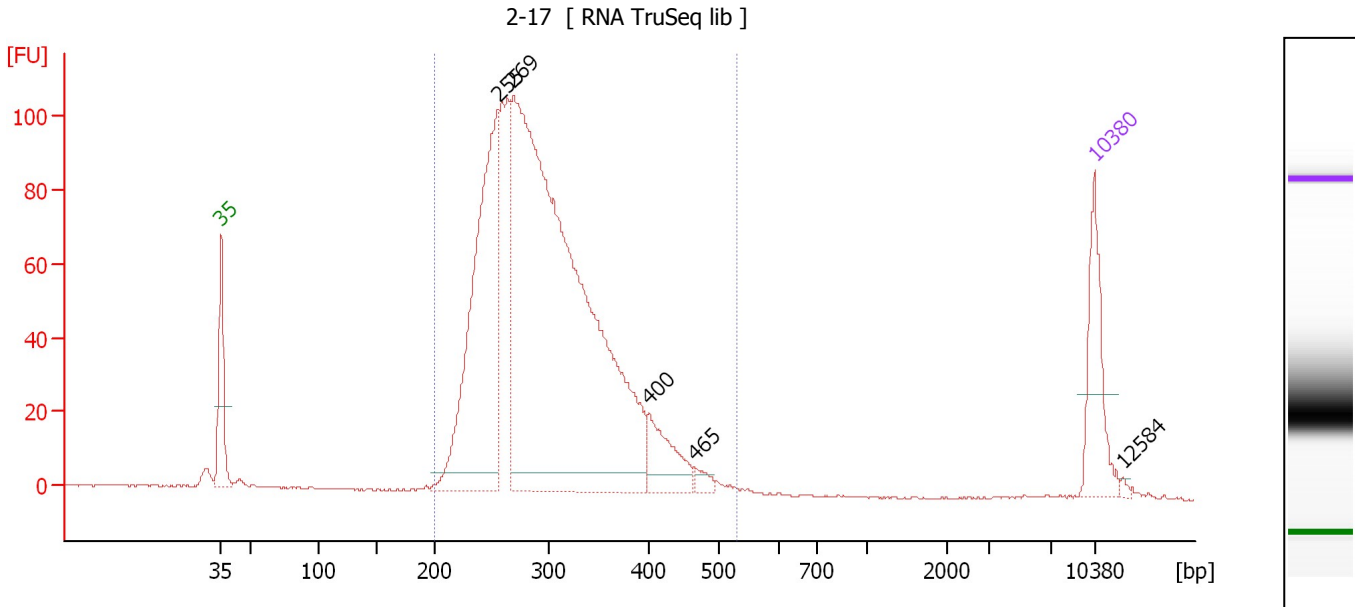
Region table for sample 5 : 2-16

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	305	545	3,460.3	99	19.4	2,665.62	13,825.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 2-17

Number of peaks found: 5 Corr. Area 1: 1,629.9
 Noise: 0.2

Peak table for sample 6 : 2-17

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	255	502.47	2,986.3	
3	269	1,359.92	7,674.0	
4	400	74.91	283.8	
5	465	12.29	40.0	
6	10,380	75.00	10.9	Upper Marker
7	12,584	0.00	0.0	

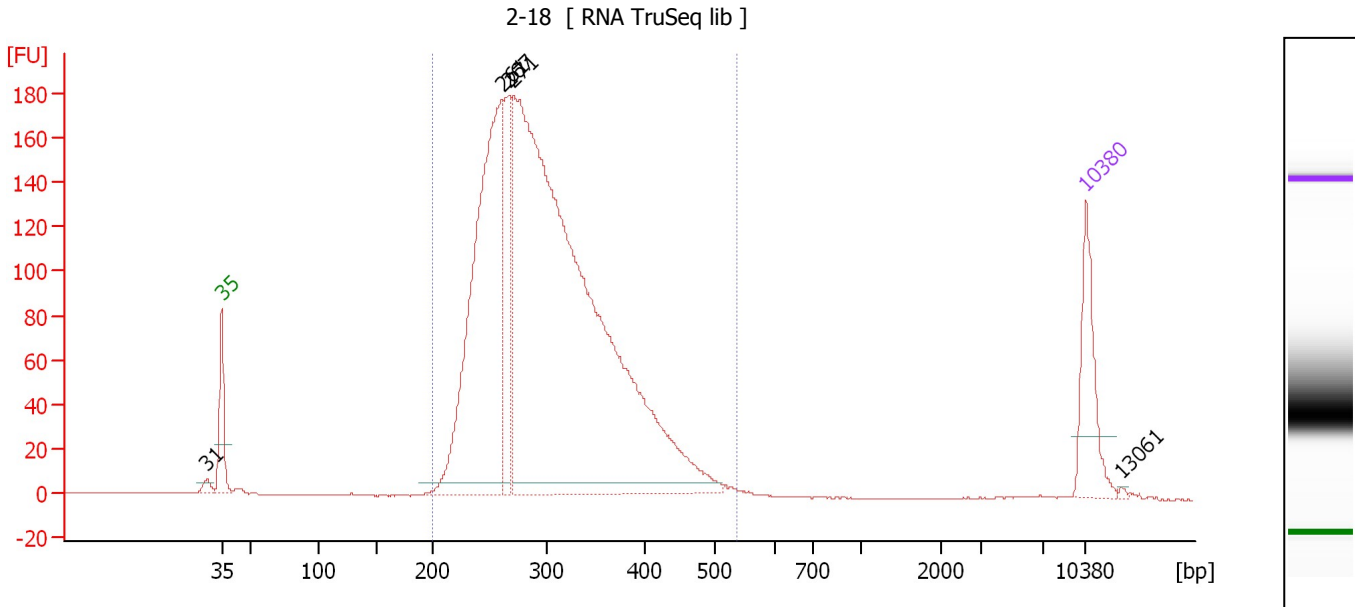
Region table for sample 6 : 2-17

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	300	528	1,629.9	98	18.4	2,046.91	10,750.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 2-18

Number of peaks found: 5 Corr. Area 1: 2,877.7
 Noise: 0.2

Peak table for sample 7 : 2-18

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	261	667.59	3,878.5	
4	267	156.55	888.6	
5	271	1,686.90	9,441.2	
6	10,380	75.00	10.9	Upper Marker
7	13,061	0.00	0.0	

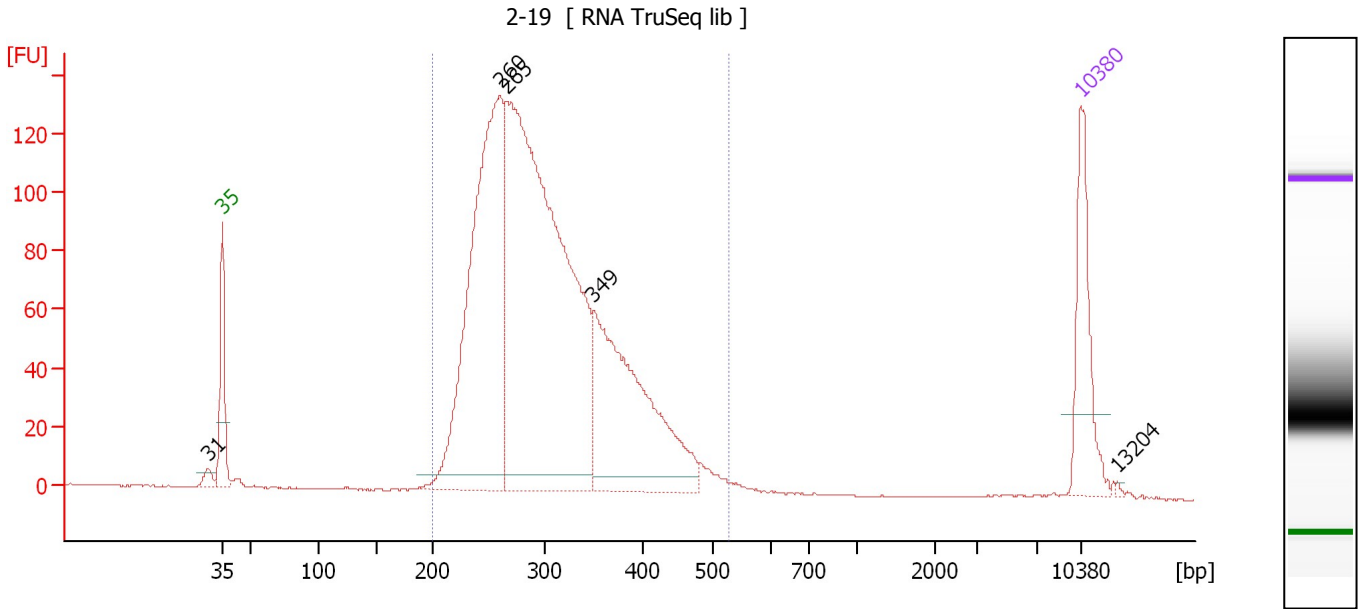
Region table for sample 7 : 2-18

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	304	536	2,877.7	98	19.0	2,388.97	12,404.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 2-19

Number of peaks found: 5 Corr. Area 1: 2,159.4
 Noise: 0.2

Peak table for sample 8 : 2-19

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	260	548.13	3,192.9	
4	265	927.32	5,295.1	
5	349	318.24	1,380.0	
6	10,380	75.00	10.9	Upper Marker
7	13,204	0.00	0.0	

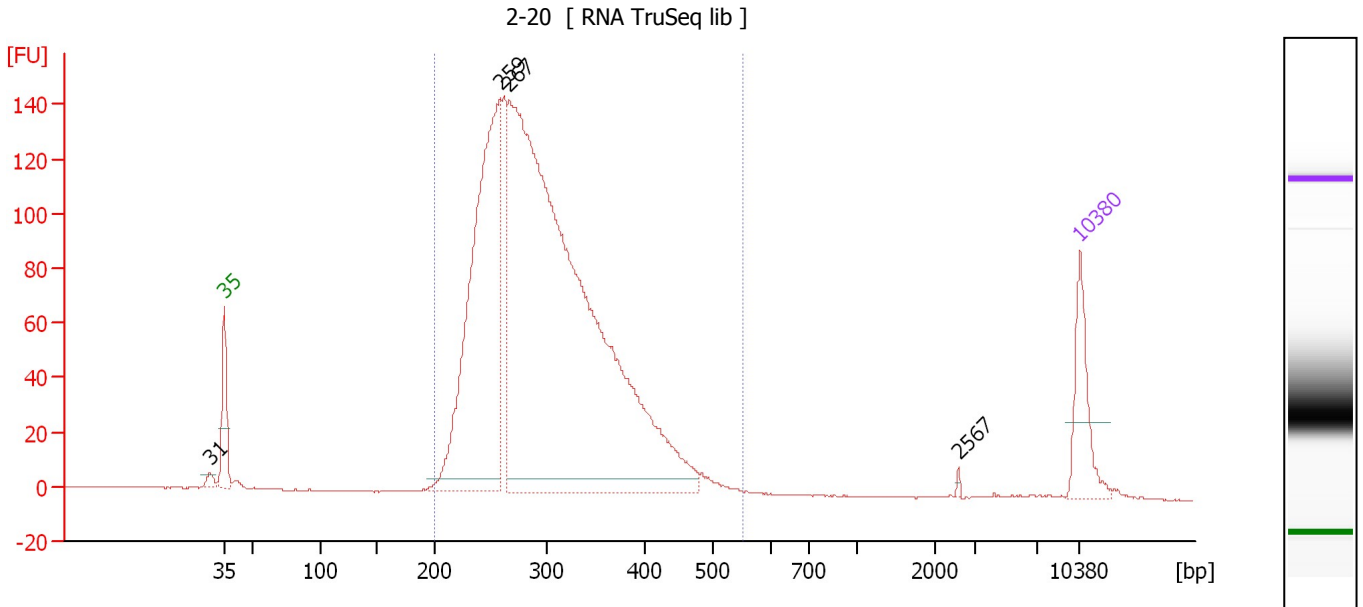
Region table for sample 8 : 2-19

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	305	529	2,159.4	97	19.9	1,743.19	9,059.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 2-20

Number of peaks found: 4 Corr. Area 1: 2,246.5
 Noise: 0.2

Peak table for sample 9 : 2-20

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	259	807.85	4,717.7	
4	267	2,078.29	11,789.7	
5	2,567	2.38	1.4	
6	10,380	75.00	10.9	Upper Marker

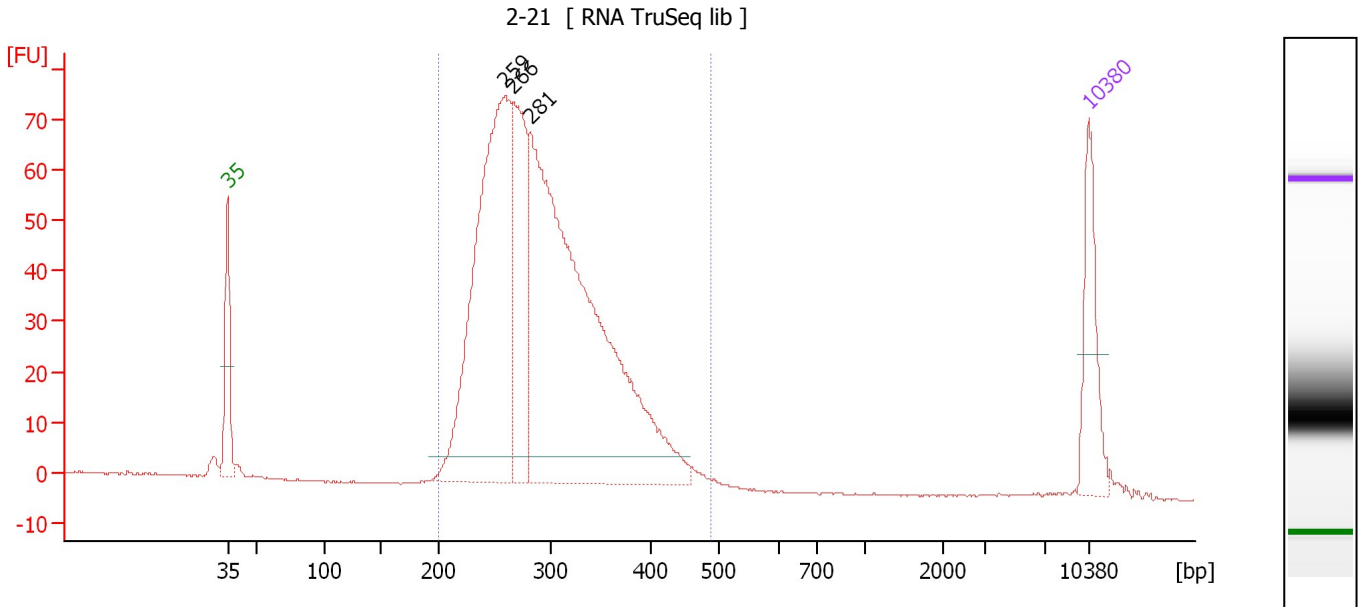
Region table for sample 9 : 2-20

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	302	552	2,246.5	98	19.0	2,846.29	14,898.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 2-21

Number of peaks found: 3 Corr. Area 1: 1,154.8
 Noise: 0.1

Peak table for sample 10 : 2-21

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	259	648.21	3,796.2	
3	266	237.91	1,353.6	
4	281	971.18	5,236.5	
5	10,380	75.00	10.9	Upper Marker

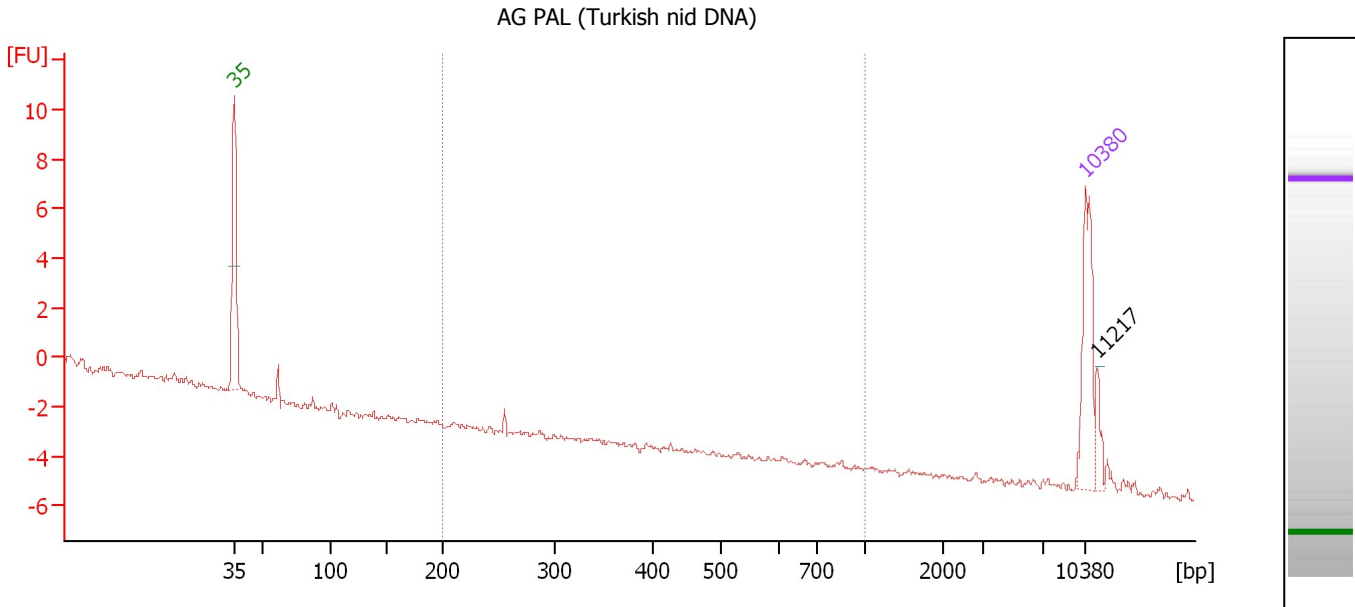
Region table for sample 10 : 2-21

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	295	487	1,154.8	98	17.7	1,808.56	9,608.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : AG PAL (Turkish nid DNA)

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

Peak table for sample 11 : AG PAL (Turkish nid DNA)

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	11,217	0.00	0.0	

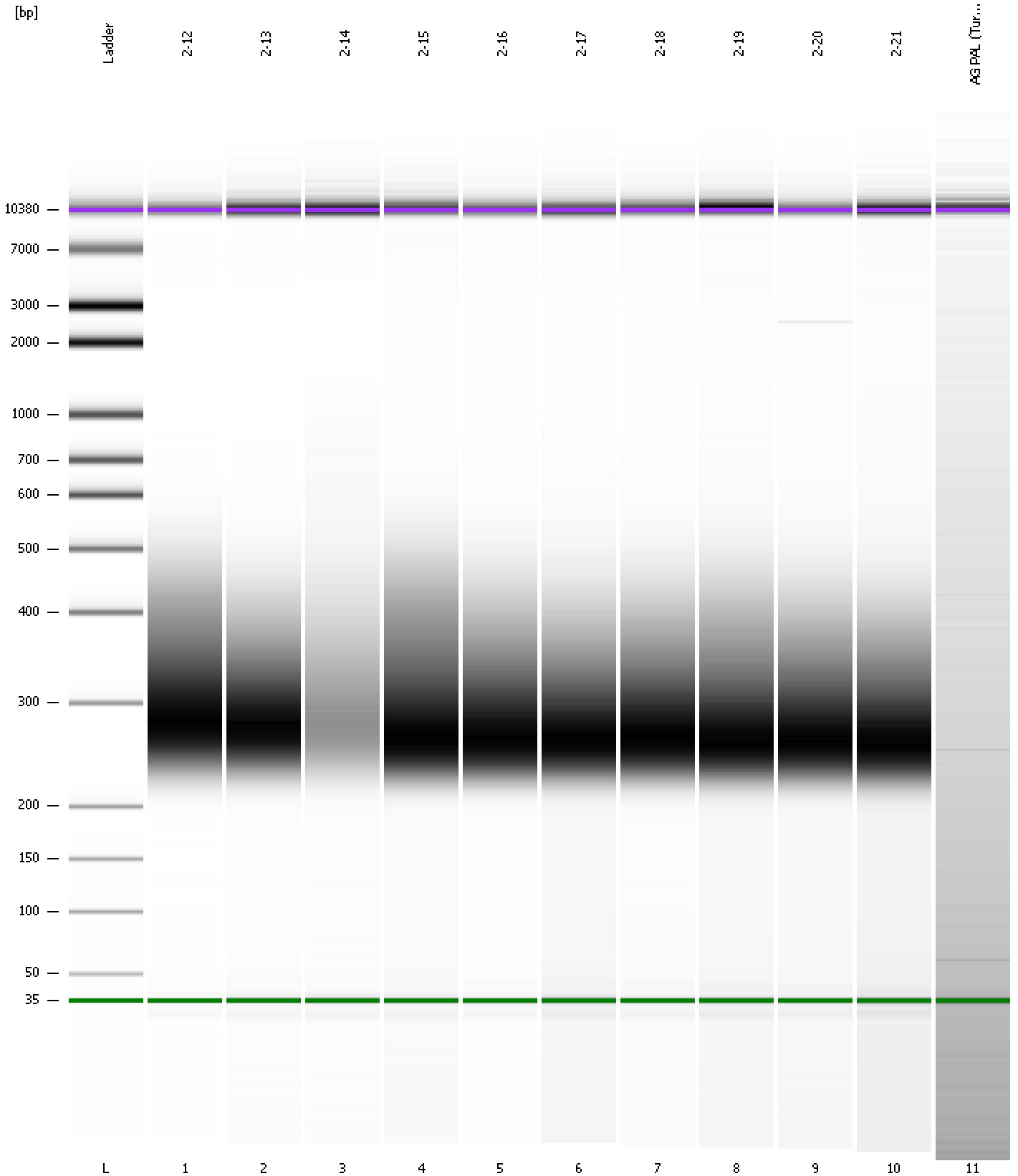
Region table for sample 11 : AG PAL (Turkish nid DNA)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	255	1,000	0.0	0	0.1	0.11	0.6	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
Modified: 9/16/2014 11:09:54 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad

Created: 9/16/2014 10:26:49 AM
 Modified: 9/16/2014 11:09:54 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		9/16/2014 11:08:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-16\2014-09-16_002.xad)		Instrument	Run		9/16/2014 10:26:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/16/2014 10:26:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/16/2014 10:26:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/16/2014 10:26:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/16/2014 10:26:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/16/2014 10:26:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/16/2014 10:26:54 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1