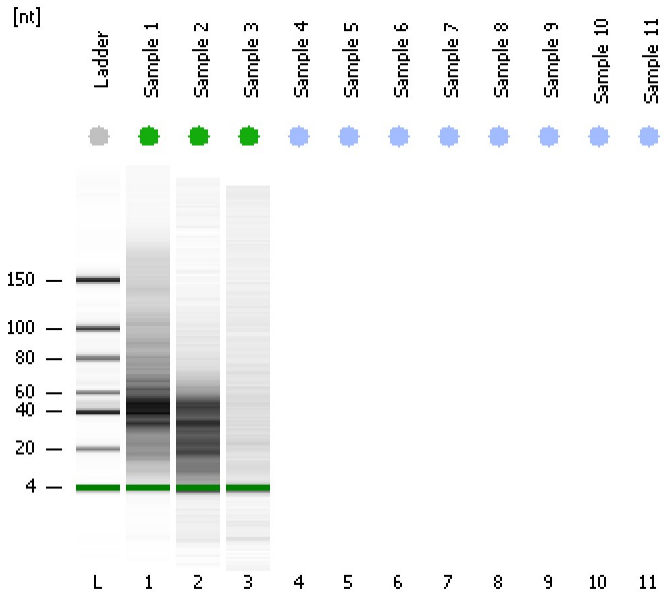


Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-05\2015-01-05_001.xad

Created: 1/5/2015 10:11:25 AM
Modified: 1/5/2015 10:28:04 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\RNA\Small RNA Series II.xsy

Assay Class: Small RNA

Version: 1.2

Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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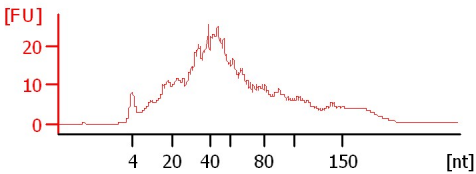
Chip Information:

Chip Lot #:

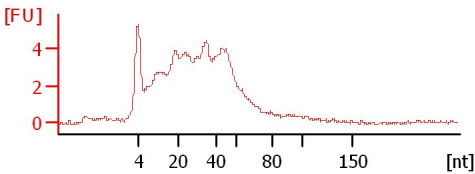
Reagent Kit Lot #:

Chip Comments:

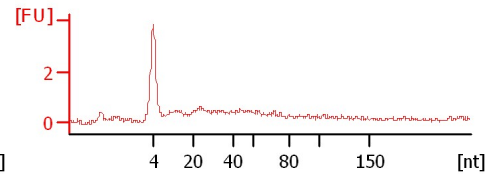
Sample 1
49 % miRNA; Concentration: 6239 pg/µl



Sample 2
68 % miRNA; Concentration: 3047.40 pg/µl















Sample 3
45 % miRNA; Concentration: 697.30 pg/µl



Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-05\2015-01-05_001.xad

Created: 1/5/2015 10:11:25 AM
Modified: 1/5/2015 10:28:04 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	49 % miRNA; Concentration: 6239 pg/μl	
Sample 2		✓	68 % miRNA; Concentration: 3047.40 pg/μl	
Sample 3		✓	45 % miRNA; Concentration: 697.30 pg/μl	
Sample 4				
Sample 5				
Sample 6				
Sample 7				
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	Number of Peaks: 6	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-05\2015-01-05_001.xad

Created: 1/5/2015 10:11:25 AM
Modified: 1/5/2015 10:28:04 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 30
Maximum Visible Range [s] : 90
Start Analysis Time Range [s] : 31
End Analysis Time Range [s] : 89
Ladder Concentration [pg/ μ l] : 2500
Lower Marker Concentration [pg/ μ l] : 500
Upper Marker Concentration [pg/ μ l] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 30
Integration End Time [s] : 89
Slope Threshold : 0.6
Height Threshold [FU] : 3
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 60

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

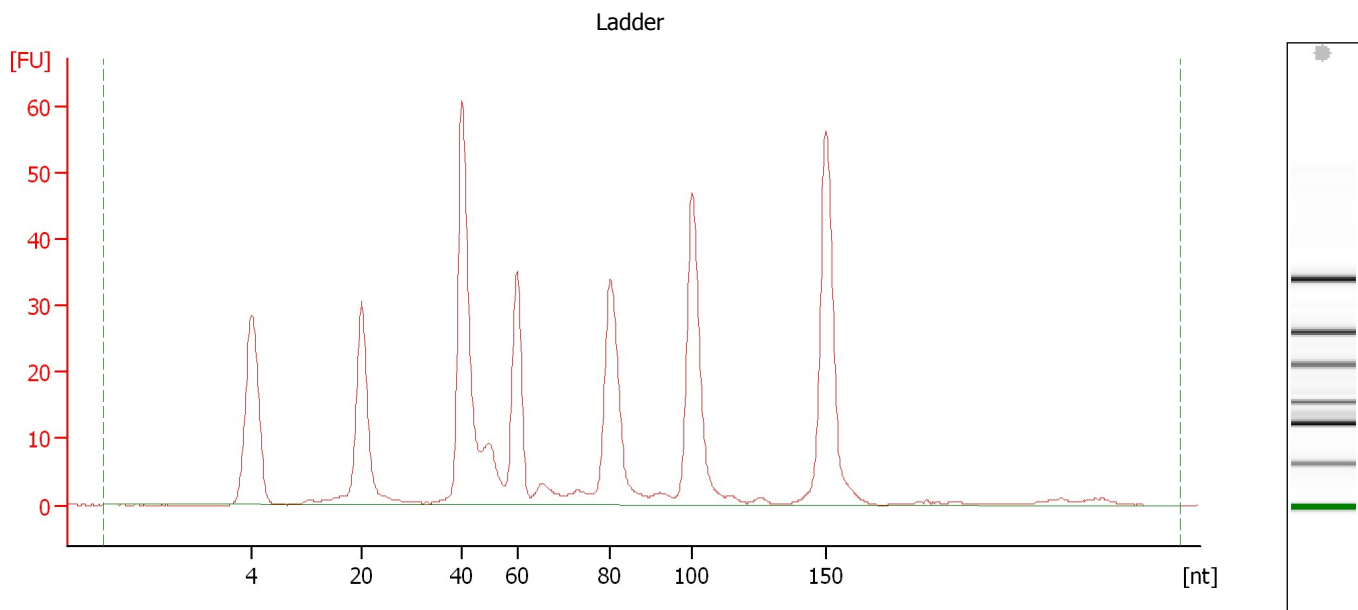
Ladder

Ladder Peak	Size
1	4
2	20
3	40
4	60
5	80
6	100
7	150

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-05\2015-01-05_001.xad

Created: 1/5/2015 10:11:25 AM
Modified: 1/5/2015 10:28:04 AM

Electropherogram Summary



Overall Results for Ladder

Result Flagging Color:

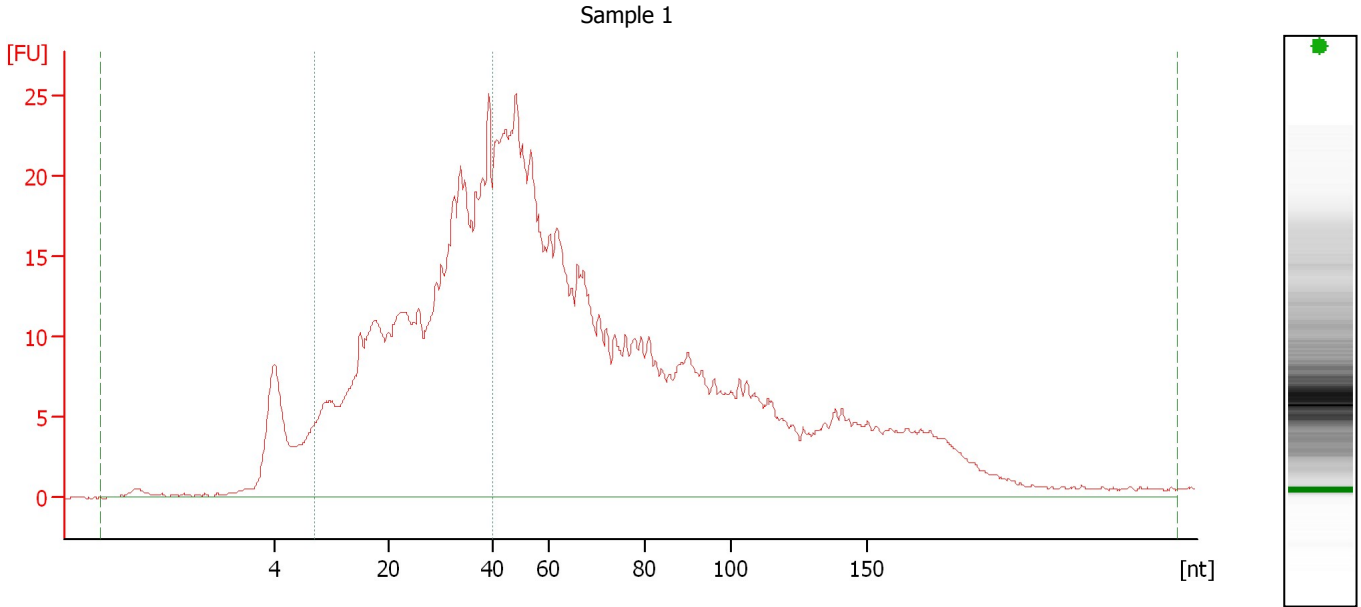
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-05\2015-01-05_001.xad

Created: 1/5/2015 10:11:25 AM
 Modified: 1/5/2015 10:28:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

Small RNA Concentration [pg/μl]:	12,729.0	Result Flagging Color:	
miRNA Concentration [pg/μl]:	6,239.0	Result Flagging Label:	49 % miRNA; Concentration: 6239 pg/μl
miRNA / Small RNA Ratio [%]:	49		

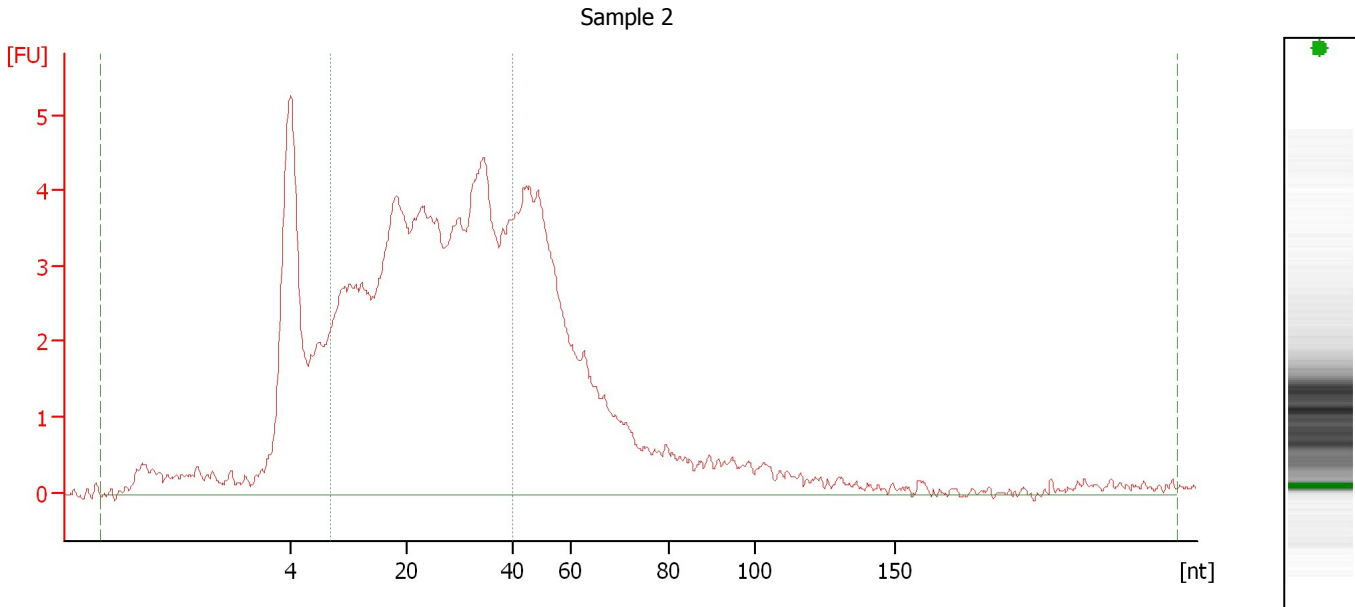
Region table for sample 1 : Sample 1

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	262	66	72.2	12,729.0	100	
miRNA	10	40	27	32.3	6,239.0	49	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-05\2015-01-05_001.xad

Created: 1/5/2015 10:11:25 AM
 Modified: 1/5/2015 10:28:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

Small RNA Concentration [pg/μl]:	4,454.2	Result Flagging Color:	
miRNA Concentration [pg/μl]:	3,047.4	Result Flagging Label:	68 % miRNA; Concentration: 3047.40 pg/μl
miRNA / Small RNA Ratio [%]:	68		

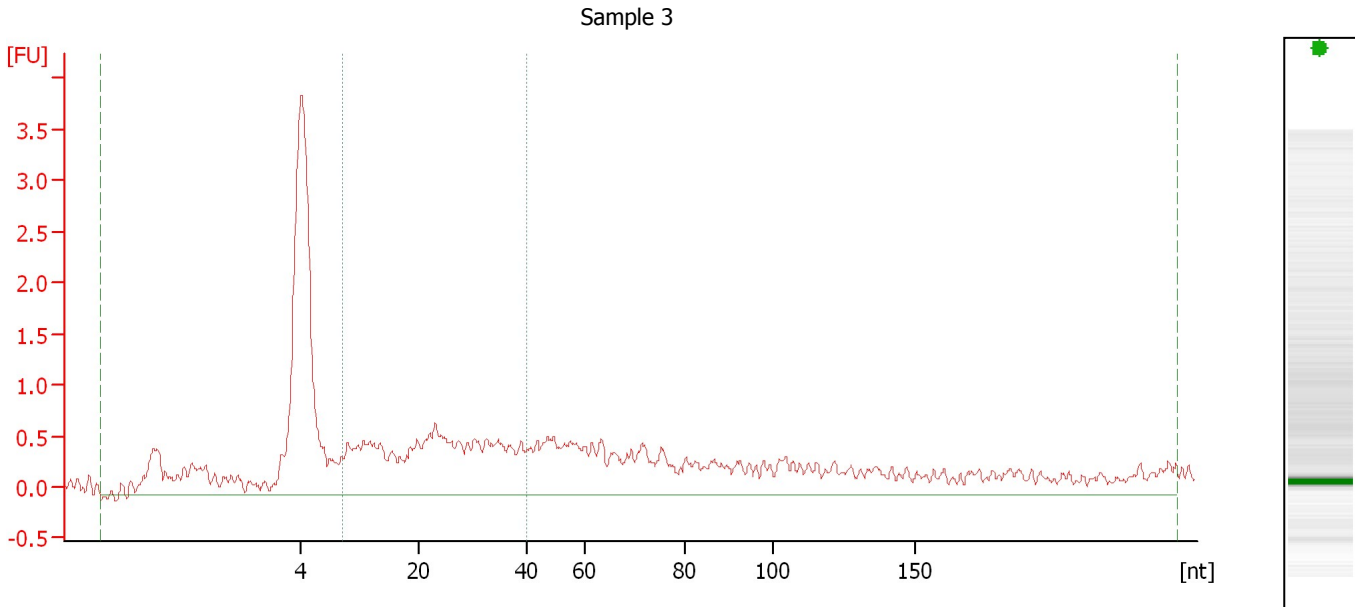
Region table for sample 2 : Sample 2

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	250	36	93.9	4,454.2	100	
miRNA	10	40	25	35.4	3,047.4	68	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-05\2015-01-05_001.xad

Created: 1/5/2015 10:11:25 AM
 Modified: 1/5/2015 10:28:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

Small RNA Concentration [pg/μl]:	1,534.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	697.3	Result Flagging Label:	45 % miRNA; Concentration: 697.30 pg/μl
miRNA / Small RNA Ratio [%]:	45		

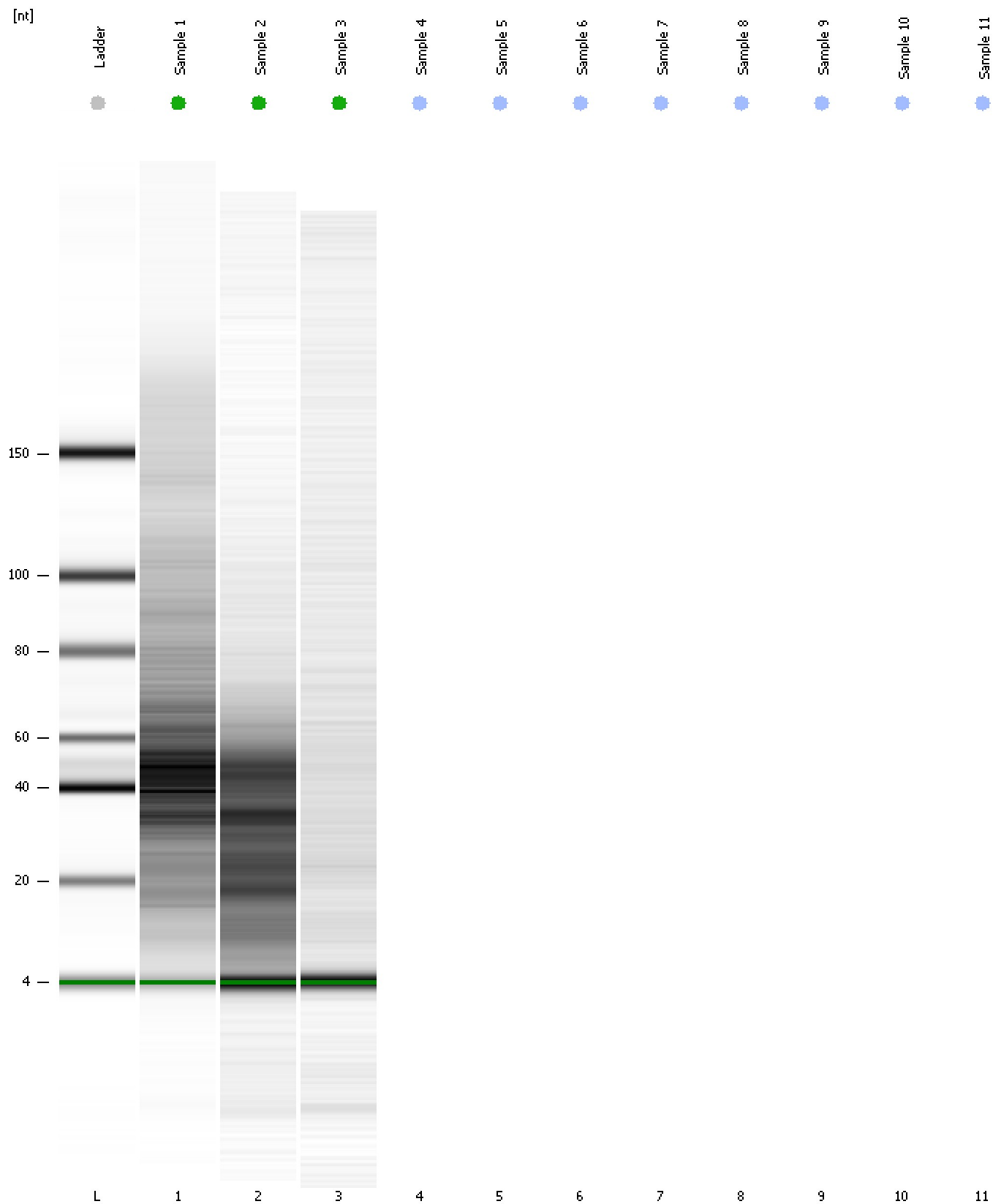
Region table for sample 3 : Sample 3

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	242	61	100.0	1,534.6	100	
miRNA	10	40	24	36.6	697.3	45	

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-05\2015-01-05_001.xad

Created: 1/5/2015 10:11:25 AM
Modified: 1/5/2015 10:28:04 AM

Gel Image



Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-05\2015-01-05_001.xad

Created: 1/5/2015 10:11:25 AM
Modified: 1/5/2015 10:28:04 AM

Invalid Samples

Sample 4 has not been run, no results available.
Sample 5 has not been run, no results available.
Sample 6 has not been run, no results available.
Sample 7 has not been run, no results available.
Sample 8 has not been run, no results available.
Sample 9 has not been run, no results available.
Sample 10 has not been run, no results available.
Sample 11 has not been run, no results available.

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-05\2015-01-05_001.xad

Created: 1/5/2015 10:11:25 AM
 Modified: 1/5/2015 10:28:04 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 4)		Instrument	Run		1/5/2015 10:28:02 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-05\2015-01-05_001.xad)		Instrument	Run		1/5/2015 10:11:30 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/5/2015 10:11:30 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/5/2015 10:11:30 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/5/2015 10:11:30 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/5/2015 10:11:30 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/5/2015 10:11:30 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/5/2015 10:11:30 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1