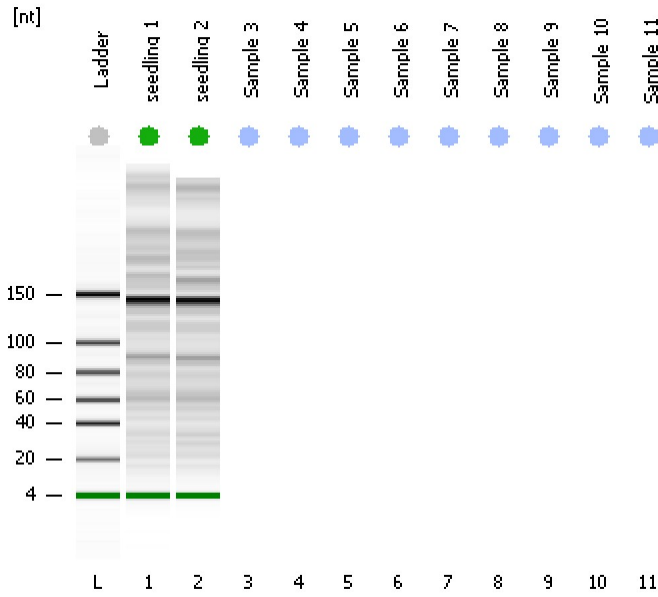


Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_006.xad

Created: 12/6/2016 2:21:10 PM
Modified: 12/6/2016 2:39:23 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\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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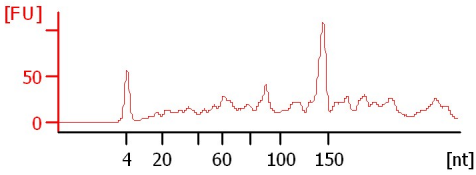
Chip Information:

Chip Lot #:

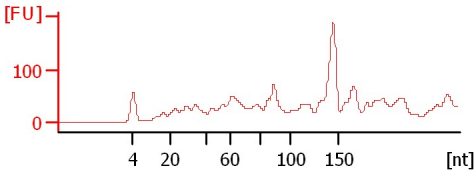
Reagent Kit Lot #:

Chip Comments:

seedling 1
28 % miRNA; Concentration: 1035.30 pg/µl















seedling 2
30 % miRNA; Concentration: 1887 pg/µl



Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_006.xad

Created: 12/6/2016 2:21:10 PM
Modified: 12/6/2016 2:39:23 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
seedling 1		✓	28 % miRNA; Concentration: 1035.30 pg/μl	
seedling 2		✓	30 % miRNA; Concentration: 1887 pg/μl	
Sample 3				
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:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_006.xad

Created: 12/6/2016 2:21:10 PM
Modified: 12/6/2016 2:39:23 PM

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

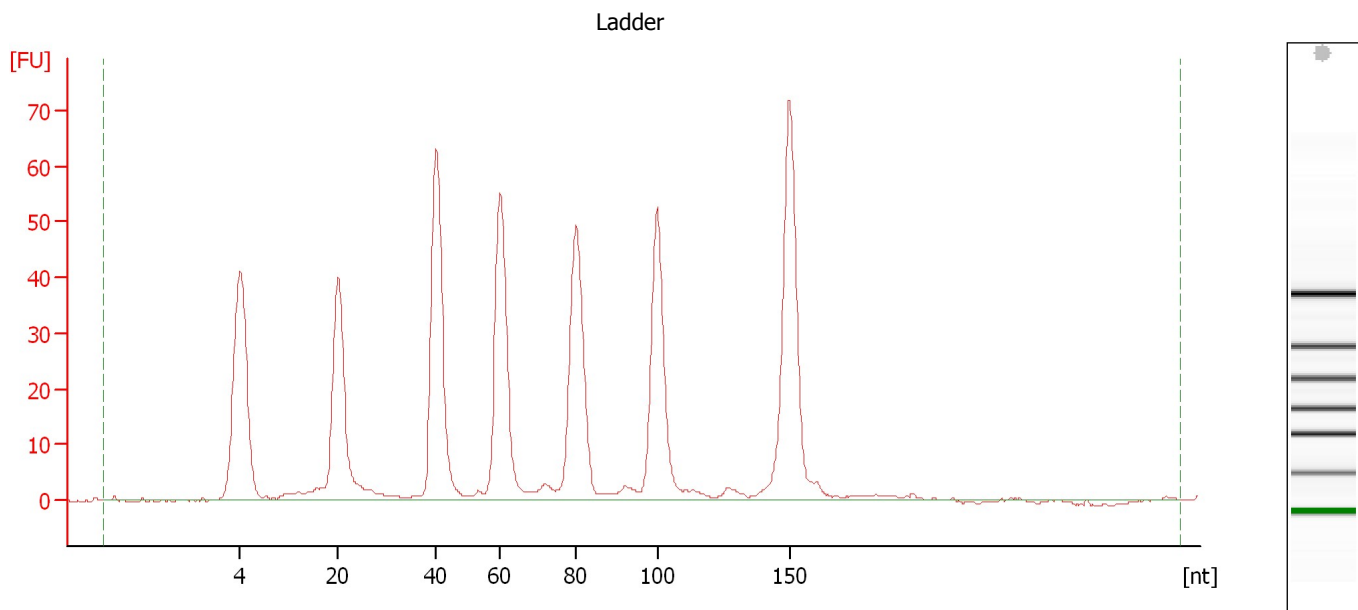
Ladder

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

Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_006.xad

Created: 12/6/2016 2:21:10 PM
Modified: 12/6/2016 2:39:23 PM

Electropherogram Summary



Overall Results for Ladder

Result Flagging Color:

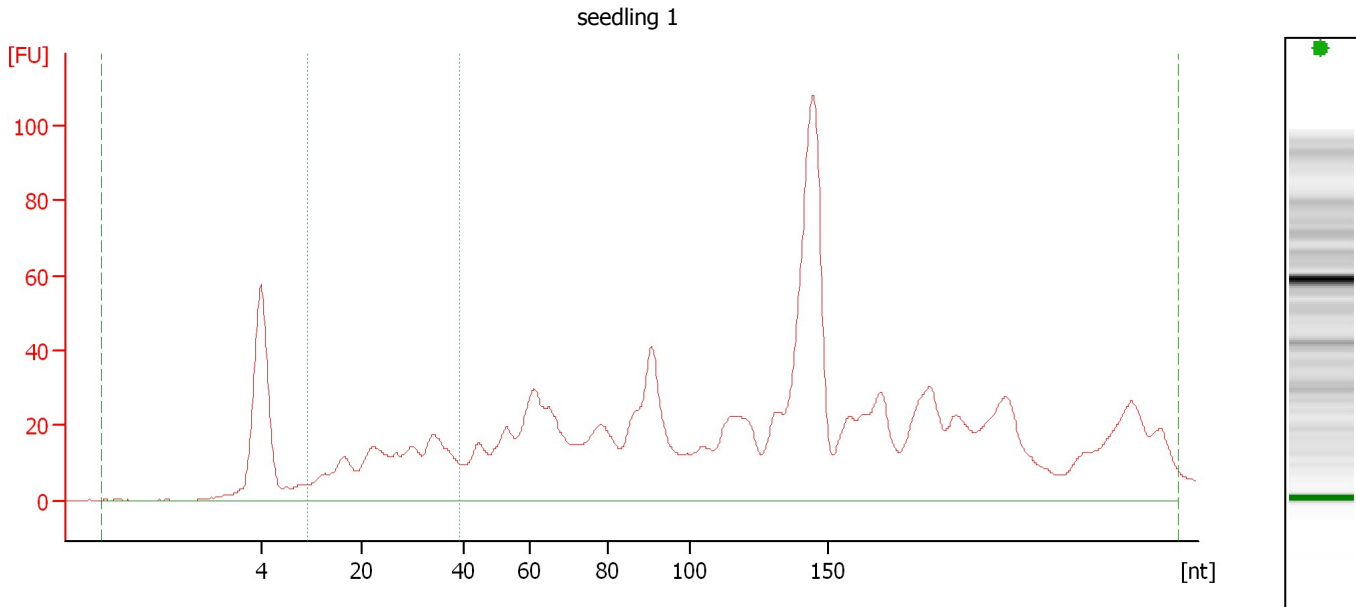
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_006.xad

Created: 12/6/2016 2:21:10 PM
 Modified: 12/6/2016 2:39:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : seedling 1

Small RNA Concentration [pg/μl]:	3,763.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	1,035.3	Result Flagging Label:	28 % miRNA; Concentration: 1035.30 pg/μl
miRNA / Small RNA Ratio [%]:	28		

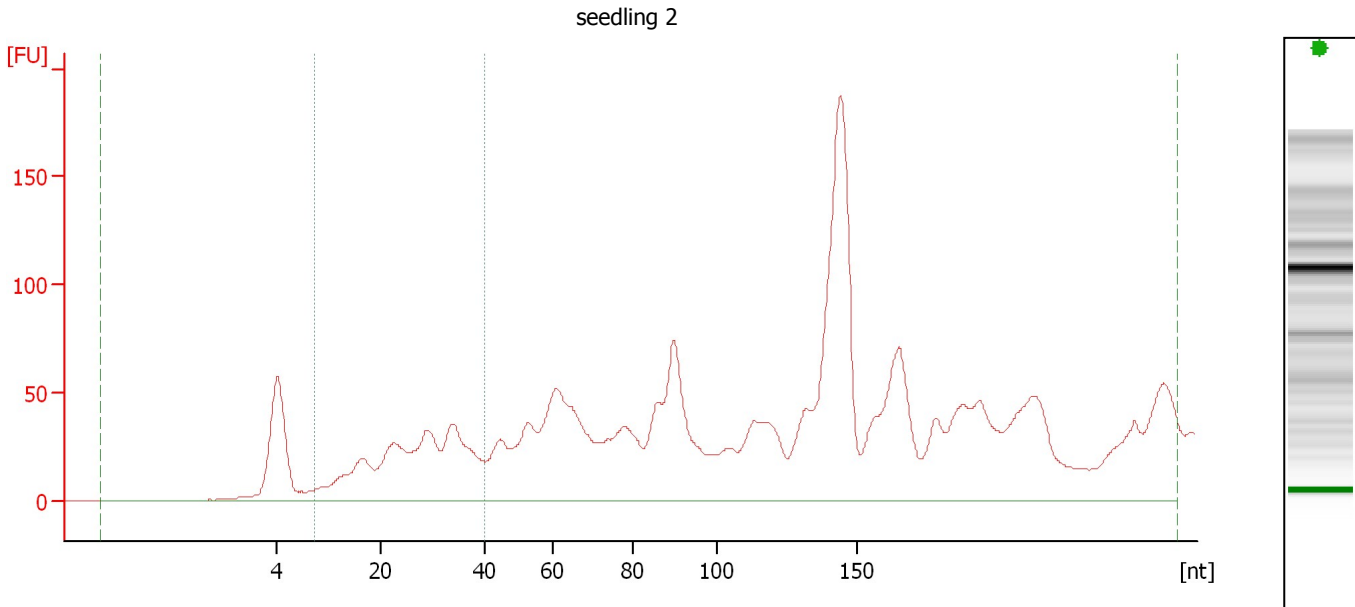
Region table for sample 1 : seedling 1

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	278	128	59.1	3,763.6	100	
miRNA	11	39	26	29.1	1,035.3	28	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_006.xad

Created: 12/6/2016 2:21:10 PM
 Modified: 12/6/2016 2:39:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : seedling 2

Small RNA Concentration [pg/μl]:	6,308.0	Result Flagging Color:	
miRNA Concentration [pg/μl]:	1,887.0	Result Flagging Label:	30 % miRNA; Concentration: 1887 pg/μl
miRNA / Small RNA Ratio [%]:	30		

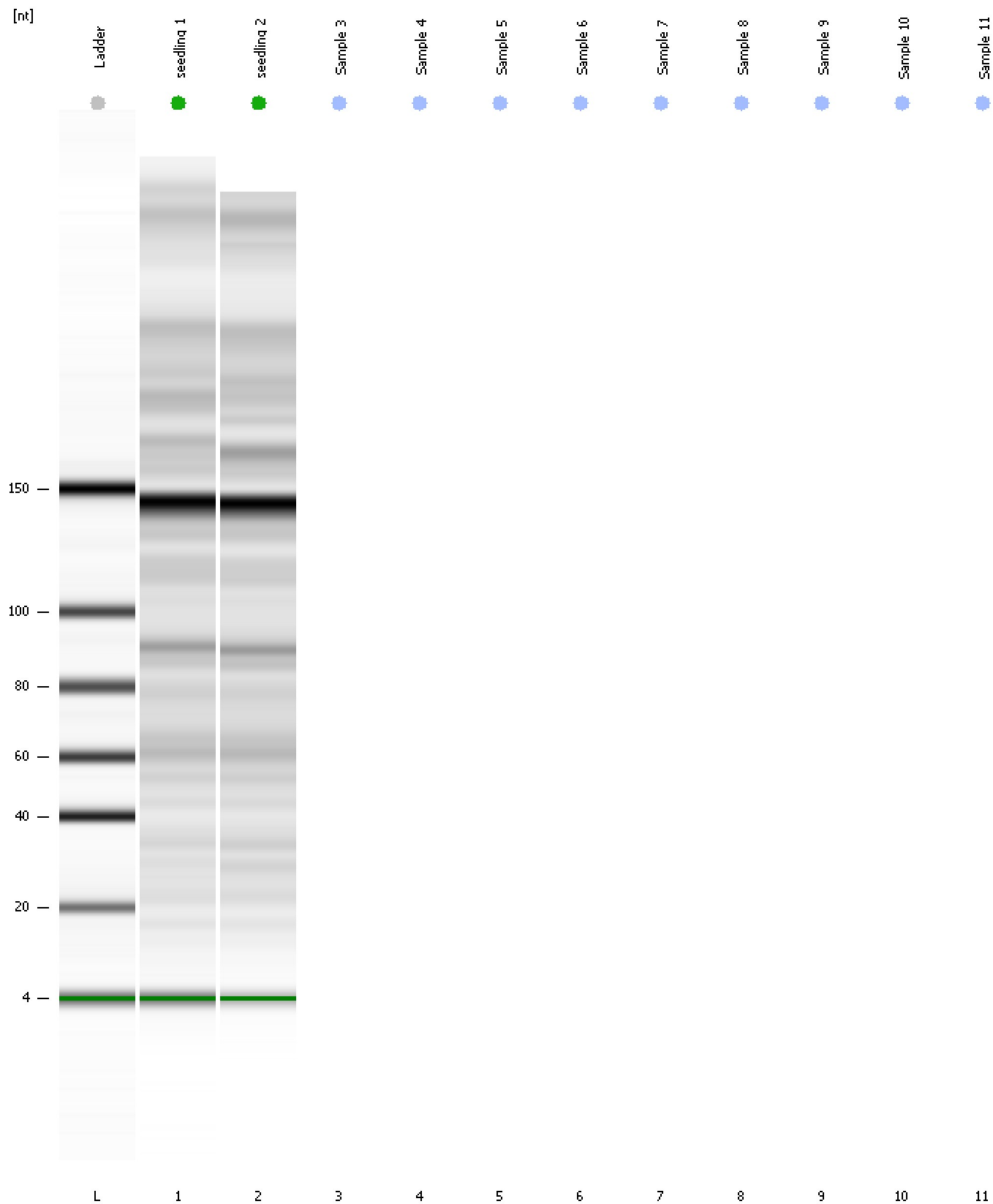
Region table for sample 2 : seedling 2

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	264	126	56.3	6,308.0	100	
miRNA	10	40	27	29.2	1,887.0	30	

Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_006.xad

Created: 12/6/2016 2:21:10 PM
Modified: 12/6/2016 2:39:23 PM

Gel Image



Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_006.xad

Created: 12/6/2016 2:21:10 PM
Modified: 12/6/2016 2:39:23 PM

Invalid Samples

Sample 3 has not been run, no results available.

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:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_006.xad

Created: 12/6/2016 2:21:10 PM
 Modified: 12/6/2016 2:39:23 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 3)		Instrument	Run		12/6/2016 2:35:18 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_006.xad)		Instrument	Run		12/6/2016 2:21:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/6/2016 2:21:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/6/2016 2:21:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/6/2016 2:21:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/6/2016 2:21:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/6/2016 2:21:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/6/2016 2:21:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1