Assay Class: Small RNA
Data Path: C:\...expert\data\2019-05-15\2019-05-15_003_BorisReznik_miRNA.xad

Created: 5/15/2019 8:43:28 AM
Modified: 5/15/2019 9:29:47 AM

Electrophoresis File Run Summary

Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

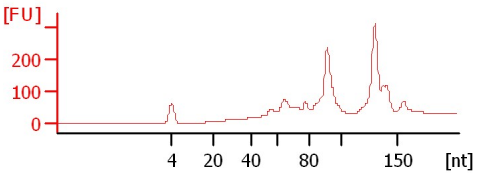
Assay Information:

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

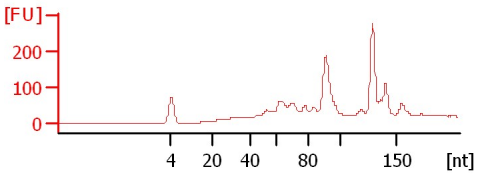
Chip Information:

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

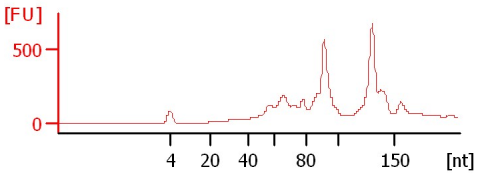
OX1
19 % miRNA; Concentration: 3383.20 pg/µl



OX2
25 % miRNA; Concentration: 3585.60 pg/µl



OX3
17 % miRNA; Concentration: 4652.40 pg/µl



Assay Class: Small RNA
Data Path: C:\...expert\data\2019-05-15\2019-05-15_003_BorisReznik_miRNA.xad

Created: 5/15/2019 8:43:28 AM
Modified: 5/15/2019 9:29:47 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
OX1		✔	19 % miRNA; Concentration: 3383.20 pg/µl	
OX2		✔	25 % miRNA; Concentration: 3585.60 pg/µl	
OX3		✔	17 % miRNA; Concentration: 4652.40 pg/µl	
Ladder		✔	Number of Peaks: 6	

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: Small RNA
Data Path: C:\...expert\data\2019-05-15\2019-05-15_003_BorisReznik_miRNA.xad

Created: 5/15/2019 8:43:28 AM
Modified: 5/15/2019 9:29:47 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/µl] : 2500
Lower Marker Concentration [pg/µl] : 500
Upper Marker Concentration [pg/µl] : 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

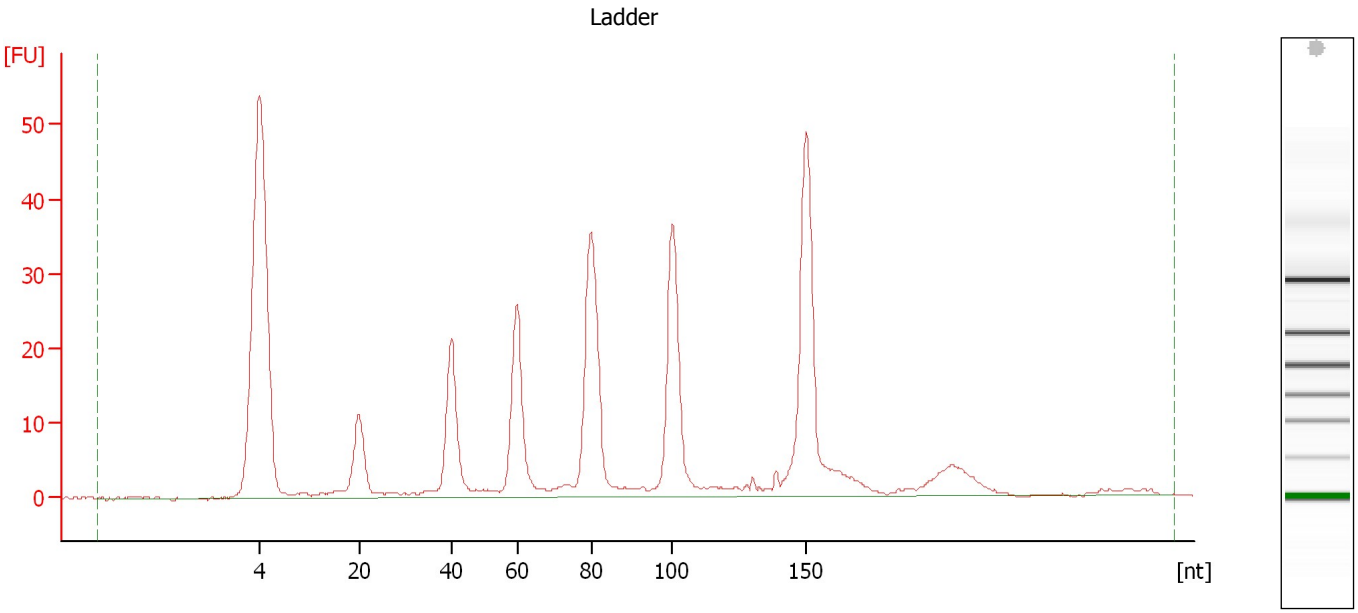
Ladder

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

Assay Class: Small RNA
Data Path: C:\...expert\data\2019-05-15\2019-05-15_003_BorisReznik_miRNA.xad

Created: 5/15/2019 8:43:28 AM
Modified: 5/15/2019 9:29:47 AM

Electropherogram Summary



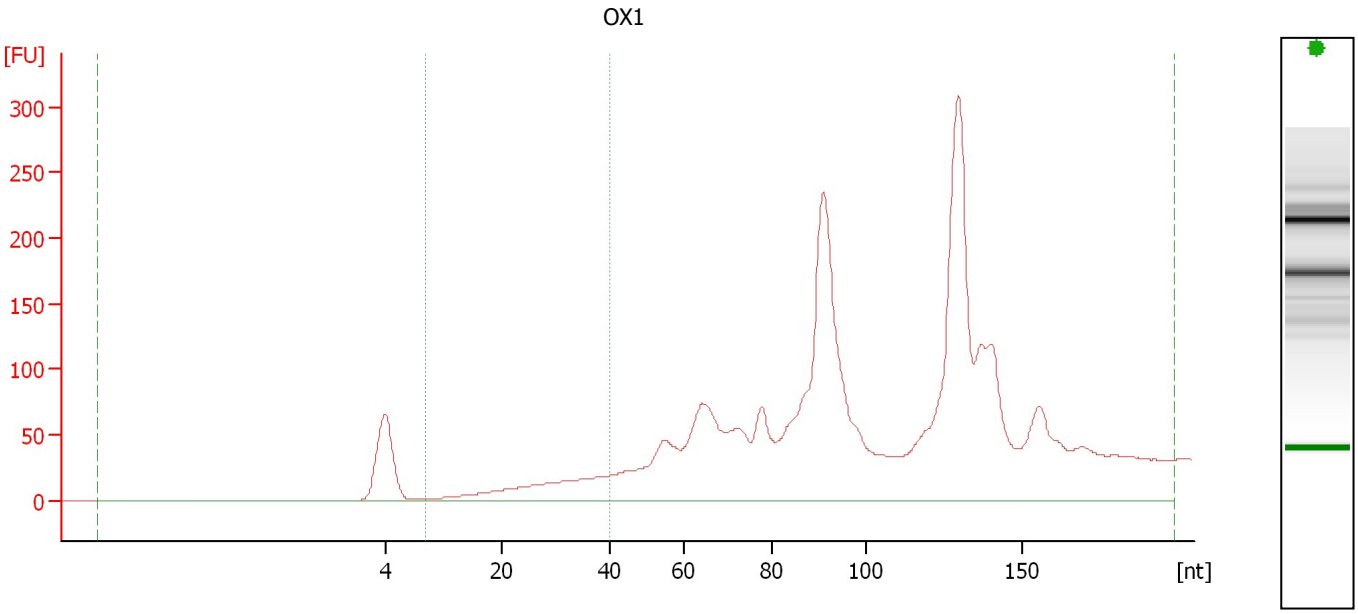
Overall Results for Ladder

Result Flagging Color: Result Flagging Label: Number of Peaks: 6

Assay Class: Small RNA
Data Path: C:\...expert\data\2019-05-15\2019-05-15_003_BorisReznik_miRNA.xad

Created: 5/15/2019 8:43:28 AM
Modified: 5/15/2019 9:29:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : OX1

Small RNA Concentration [pg/µl]:	17,848.0	Result Flagging Color:	
miRNA Concentration [pg/µl]:	3,383.2	Result Flagging Label:	19 % miRNA; Concentration: 3383.20 pg/µl
miRNA / Small RNA Ratio [%]:	19		

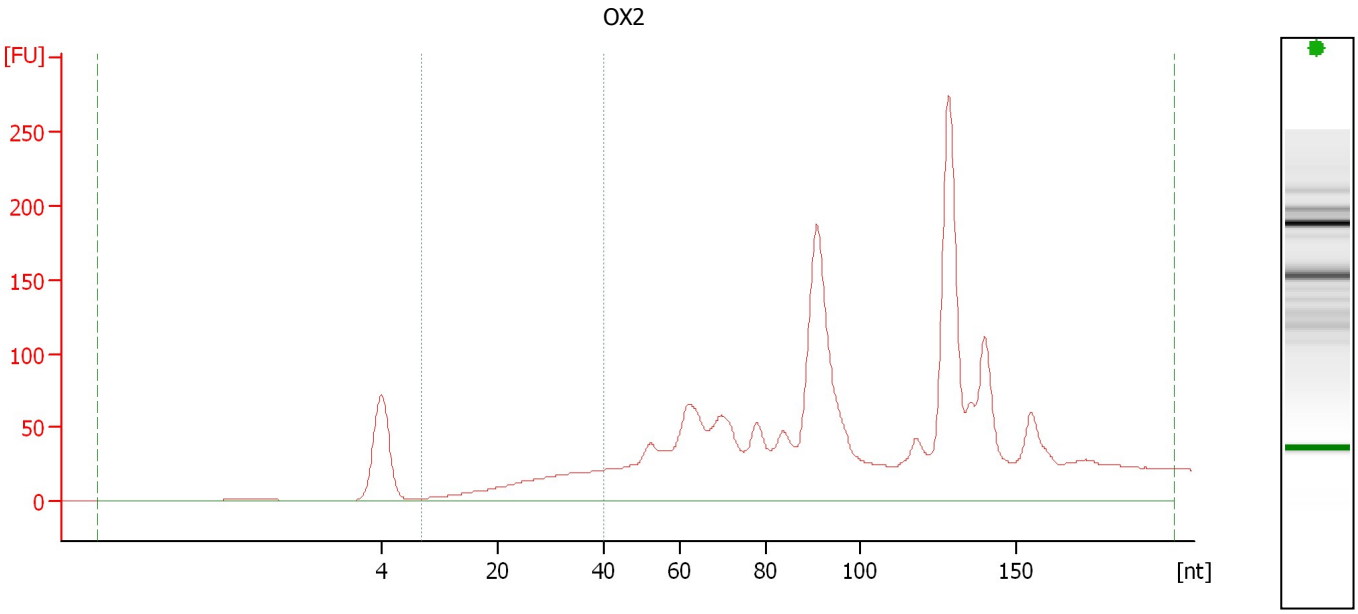
Region table for sample 9 : OX1

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/µl]	% of Total	Color
Small RNA	0	199	106	41.5	17,848.0	100	
miRNA	10	40	29	27.0	3,383.2	19	

Assay Class: Small RNA
Data Path: C:\...expert\data\2019-05-15\2019-05-15_003_BorisReznik_miRNA.xad

Created: 5/15/2019 8:43:28 AM
Modified: 5/15/2019 9:29:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : OX2

Small RNA Concentration [pg/µl]:	14,086.4	Result Flagging Color:	
miRNA Concentration [pg/µl]:	3,585.6	Result Flagging Label:	25 % miRNA; Concentration: 3585.60 pg/µl
miRNA / Small RNA Ratio [%]:	25		

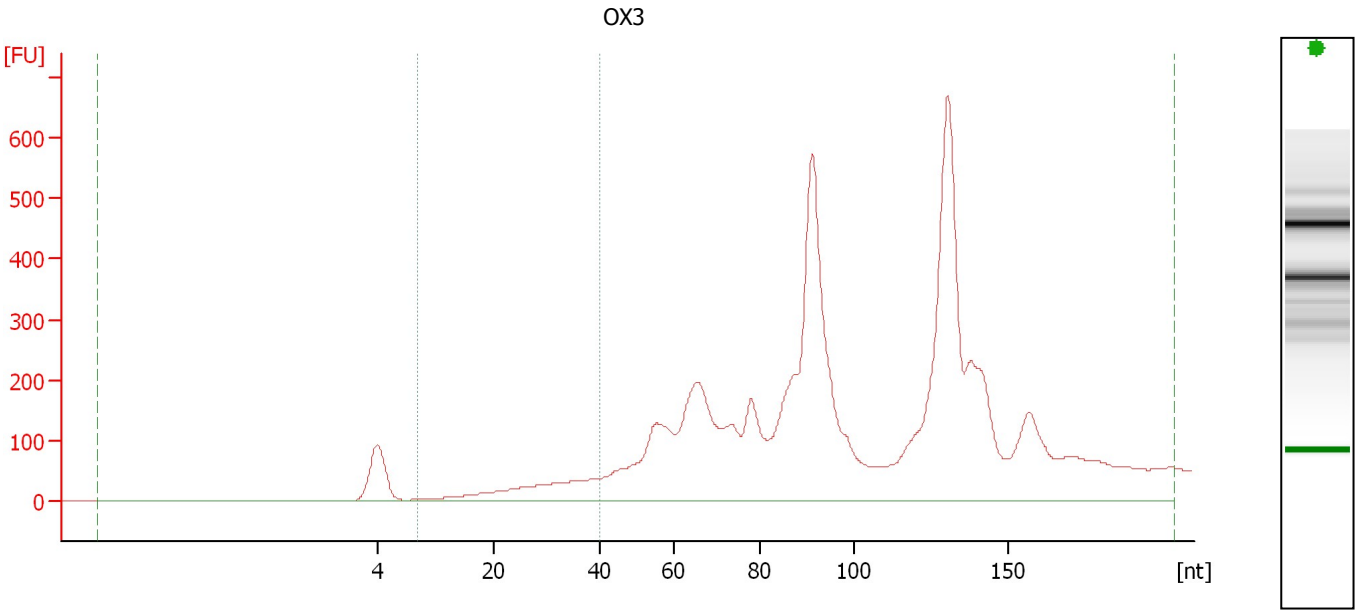
Region table for sample 10 : OX2

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/µl]	% of Total	Color
Small RNA	0	201	100	46.6	14,086.4	100	
miRNA	10	40	28	27.0	3,585.6	25	

Assay Class: Small RNA
Data Path: C:\...expert\data\2019-05-15\2019-05-15_003_BorisReznik_miRNA.xad

Created: 5/15/2019 8:43:28 AM
Modified: 5/15/2019 9:29:47 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : OX3

Small RNA Concentration [pg/µl]:	27,412.7	Result Flagging Color:	
miRNA Concentration [pg/µl]:	4,652.4	Result Flagging Label:	17 % miRNA; Concentration: 4652.40 pg/µl
miRNA / Small RNA Ratio [%]:	17		

Region table for sample 11 : OX3

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/µl]	% of Total	Color
Small RNA	0	203	105	40.8	27,412.7	100	
miRNA	10	40	29	26.7	4,652.4	17	

Assay Class: Small RNA
Data Path: C:\...expert\data\2019-05-15\2019-05-15_003_BorisReznik_miRNA.xad

Created: 5/15/2019 8:43:28 AM
Modified: 5/15/2019 9:29:47 AM

Gel Image

Assay Class: Small RNA
Data Path: C:\...expert\data\2019-05-15\2019-05-15_003_BorisReznik_miRNA.xad

Created: 5/15/2019 8:43:28 AM
Modified: 5/15/2019 9:29:47 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		5/15/2019 9:14:06 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-05-15\2019-05-15_003.xad)		Instrument	Run		5/15/2019 8:43:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		5/15/2019 8:43:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/15/2019 8:43:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/15/2019 8:43:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		5/15/2019 8:43:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/15/2019 8:43:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/15/2019 8:43:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1