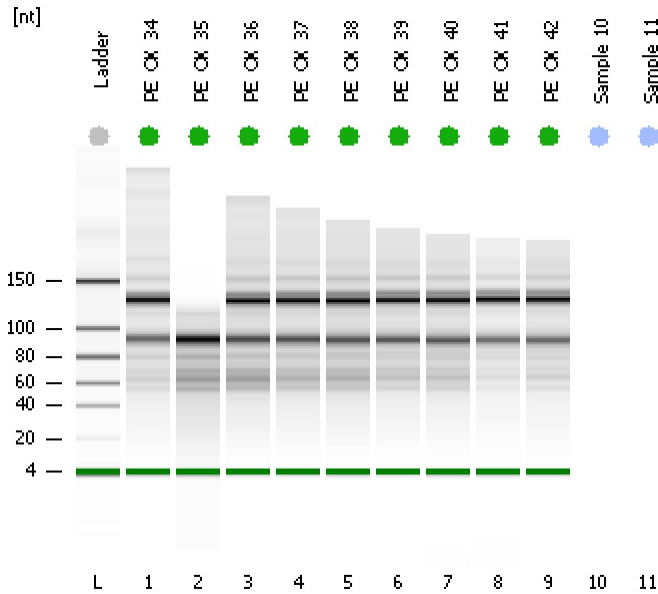


Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
Modified: 8/6/2019 11:16:24 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

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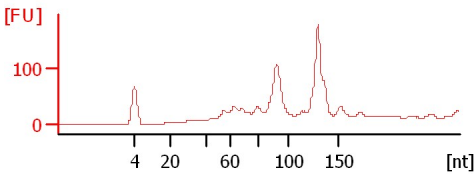
Chip Information:

Chip Lot #:

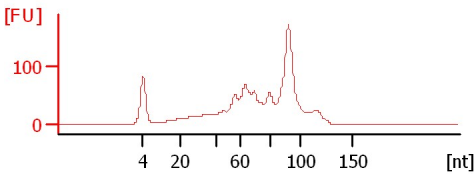
Reagent Kit Lot #:

Chip Comments:

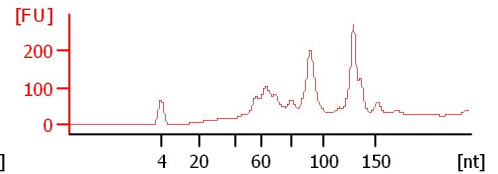
PE_OX_34
18 % miRNA; Concentration: 2054.60 pg/µl



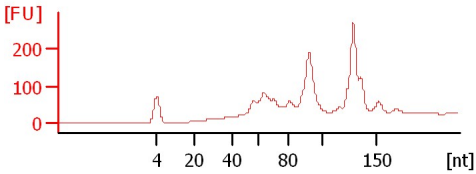
PE_OX_35
31 % miRNA; Concentration: 3250.70 pg/µl



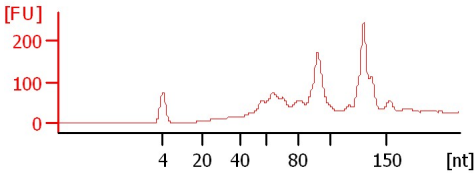
PE_OX_36
19 % miRNA; Concentration: 4145.40 pg/µl



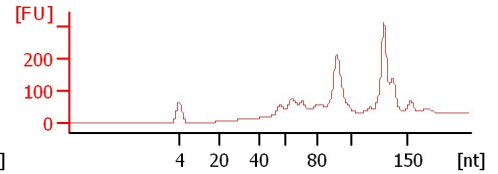
PE_OX_37
18 % miRNA; Concentration: 3175.10 pg/µl



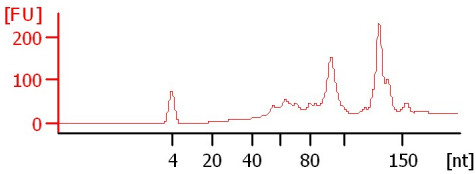
PE_OX_38
18 % miRNA; Concentration: 2938.30 pg/µl



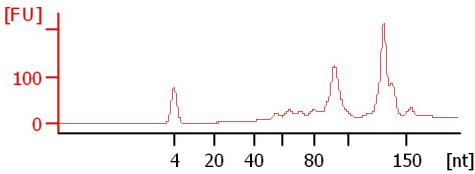
PE_OX_39
17 % miRNA; Concentration: 3410.50 pg/µl



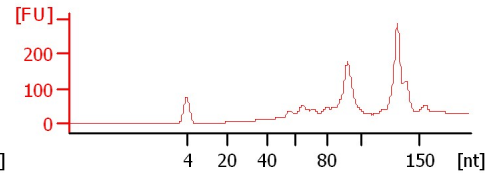
PE_OX_40
16 % miRNA; Concentration: 2136.40 pg/µl



PE_OX_41
14 % miRNA; Concentration: 1214.10 pg/µl















PE_OX_42
17 % miRNA; Concentration: 2447.20 pg/µl



Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
 Modified: 8/6/2019 11:16:24 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
PE_OX_34		✓	18 % miRNA; Concentration: 2054.60 pg/μl	
PE_OX_35		✓	31 % miRNA; Concentration: 3250.70 pg/μl	
PE_OX_36		✓	19 % miRNA; Concentration: 4145.40 pg/μl	
PE_OX_37		✓	18 % miRNA; Concentration: 3175.10 pg/μl	
PE_OX_38		✓	18 % miRNA; Concentration: 2938.30 pg/μl	
PE_OX_39		✓	17 % miRNA; Concentration: 3410.50 pg/μl	
PE_OX_40		✓	16 % miRNA; Concentration: 2136.40 pg/μl	
PE_OX_41		✓	14 % miRNA; Concentration: 1214.10 pg/μl	
PE_OX_42		✓	17 % miRNA; Concentration: 2447.20 pg/μl	
Sample 10			All Other Samples	
Sample 11			All Other Samples	
Ladder		✓	Number of Peaks: 5	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
Modified: 8/6/2019 11:16:24 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

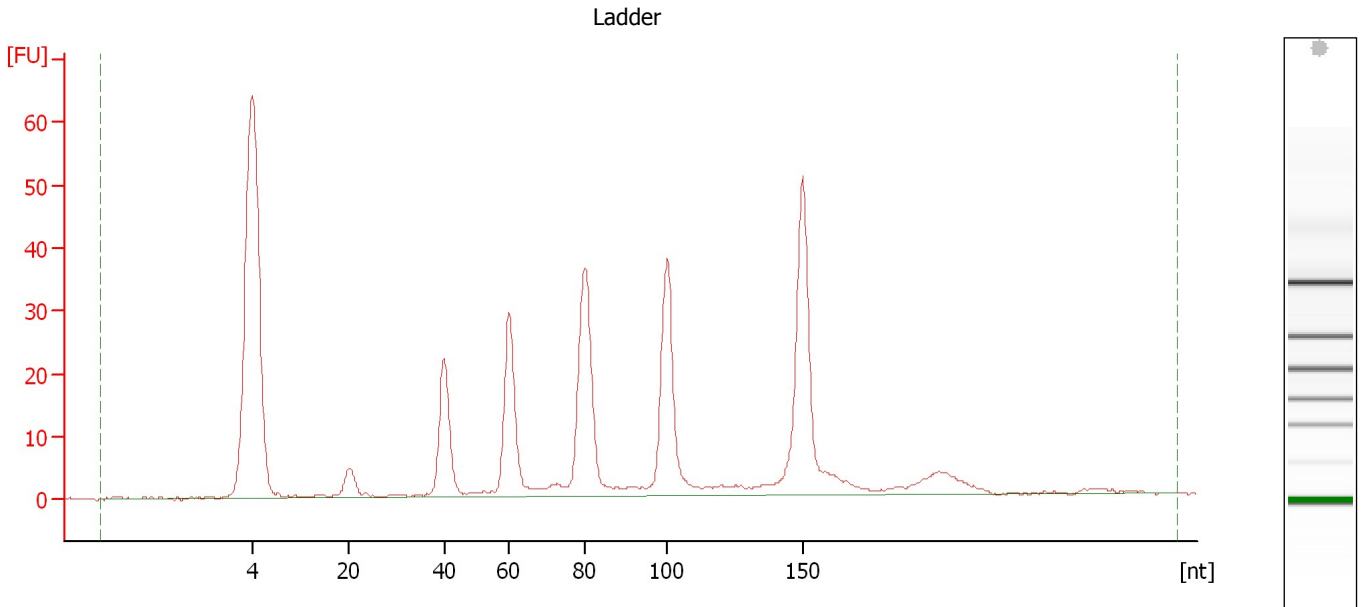
Ladder

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

Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
Modified: 8/6/2019 11:16:24 AM

Electropherogram Summary



Overall Results for Ladder

Result Flagging Color:

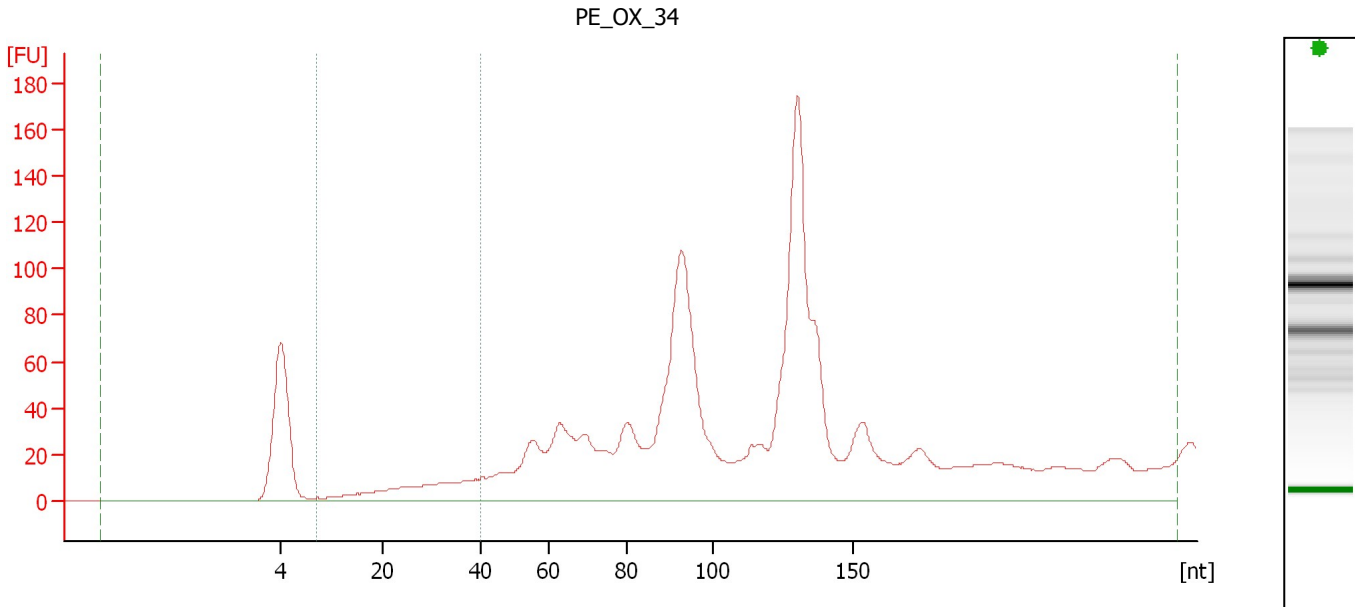
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
 Modified: 8/6/2019 11:16:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : PE_OX_34

Small RNA Concentration [pg/μl]:	11,200.4	Result Flagging Color:	
miRNA Concentration [pg/μl]:	2,054.6	Result Flagging Label:	18 % miRNA; Concentration: 2054.60 pg/μl
miRNA / Small RNA Ratio [%]:	18		

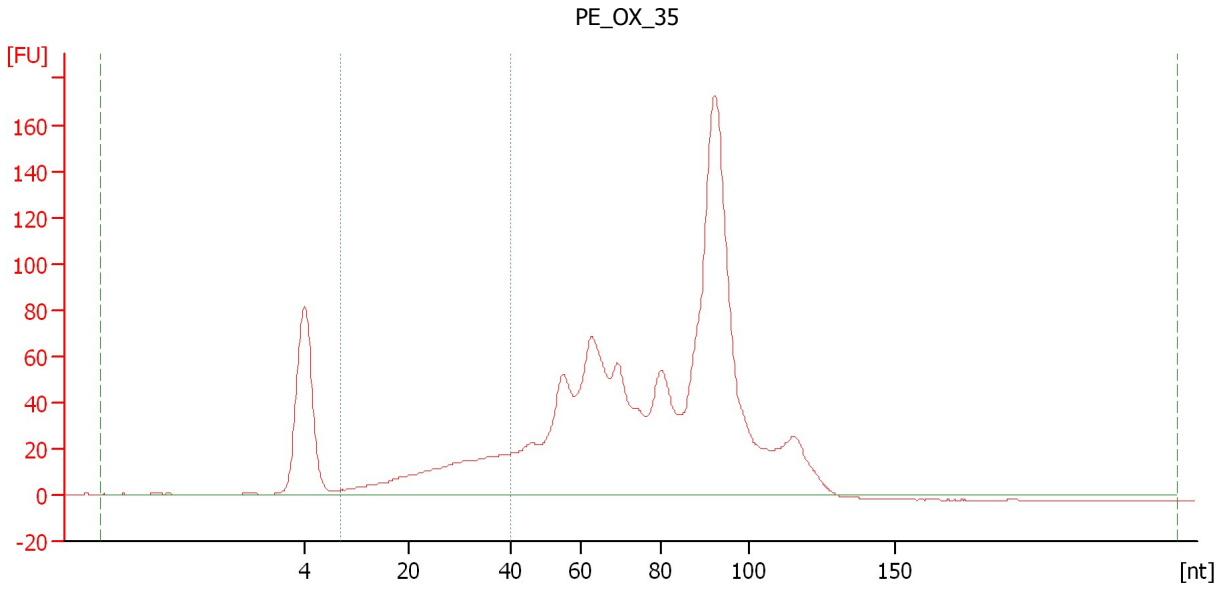
Region table for sample 1 : PE_OX_34

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	264	119	52.1	11,200.4	100	
miRNA	10	40	28	28.2	2,054.6	18	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
 Modified: 8/6/2019 11:16:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : PE_OX_35

Small RNA Concentration [pg/μl]:	10,557.5	Result Flagging Color:	
miRNA Concentration [pg/μl]:	3,250.7	Result Flagging Label:	31 % miRNA; Concentration: 3250.70 pg/μl
miRNA / Small RNA Ratio [%]:	31		

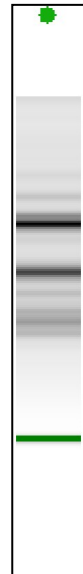
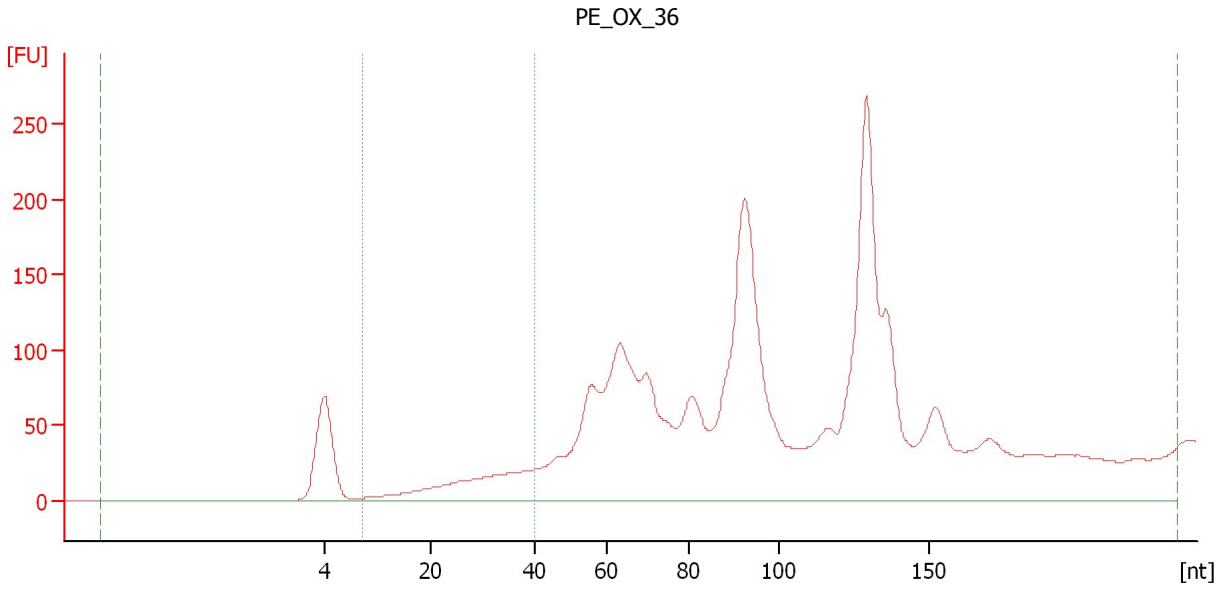
Region table for sample 2 : PE_OX_35

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	247	69	44.0	10,557.5	100	
miRNA	10	40	28	27.6	3,250.7	31	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
 Modified: 8/6/2019 11:16:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : PE_OX_36

Small RNA Concentration [pg/μl]:	21,618.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	4,145.4	Result Flagging Label:	19 % miRNA; Concentration: 4145.40 pg/μl
miRNA / Small RNA Ratio [%]:	19		

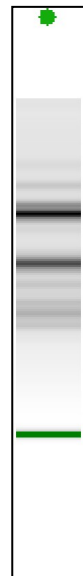
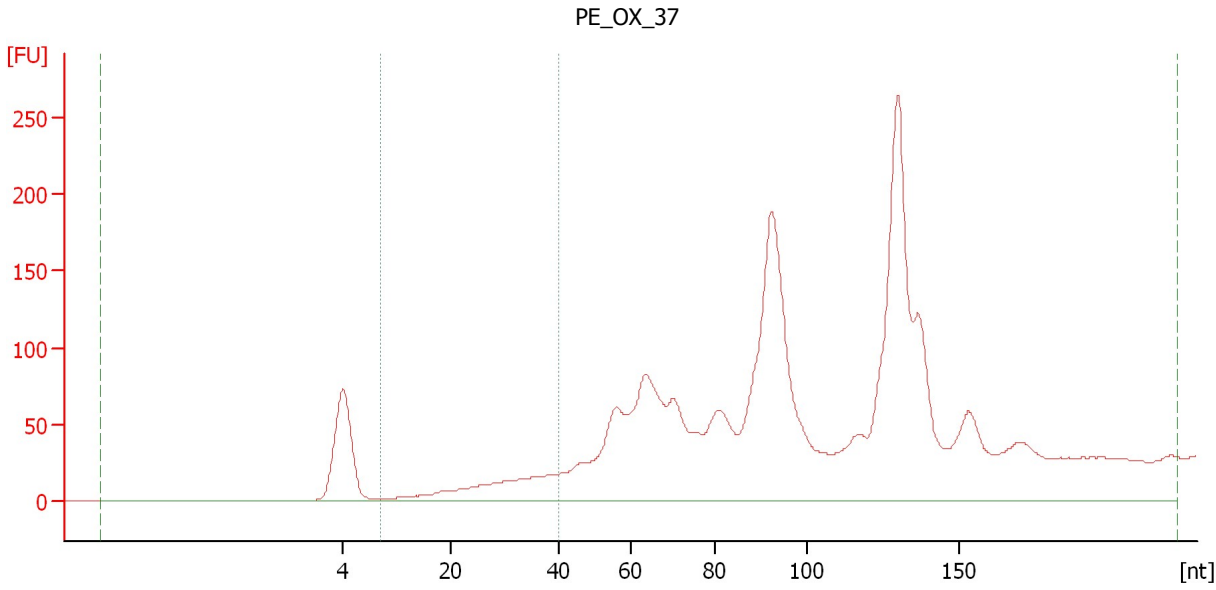
Region table for sample 3 : PE_OX_36

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	233	109	48.1	21,618.6	100	
miRNA	10	40	29	26.7	4,145.4	19	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
 Modified: 8/6/2019 11:16:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : PE_OX_37

Small RNA Concentration [pg/μl]:	17,783.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	3,175.1	Result Flagging Label:	18 % miRNA; Concentration: 3175.10 pg/μl
miRNA / Small RNA Ratio [%]:	18		

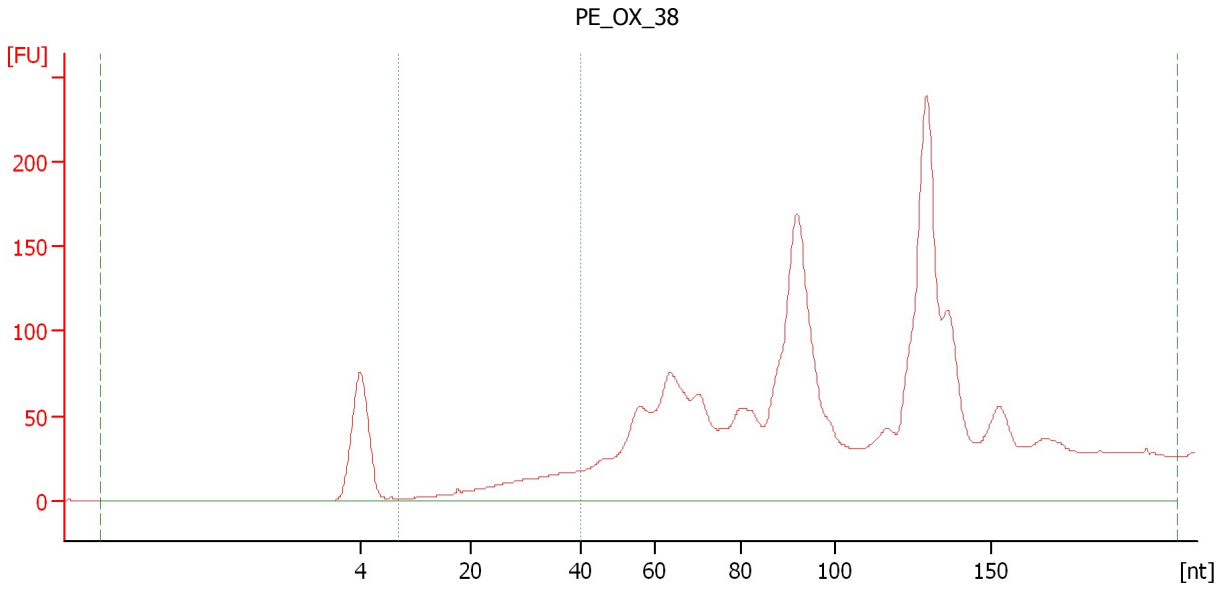
Region table for sample 4 : PE_OX_37

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	221	108	46.1	17,783.1	100	
miRNA	10	40	29	26.4	3,175.1	18	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
 Modified: 8/6/2019 11:16:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : PE_OX_38

Small RNA Concentration [pg/μl]:	16,389.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	2,938.3	Result Flagging Label:	18 % miRNA; Concentration: 2938.30 pg/μl
miRNA / Small RNA Ratio [%]:	18		

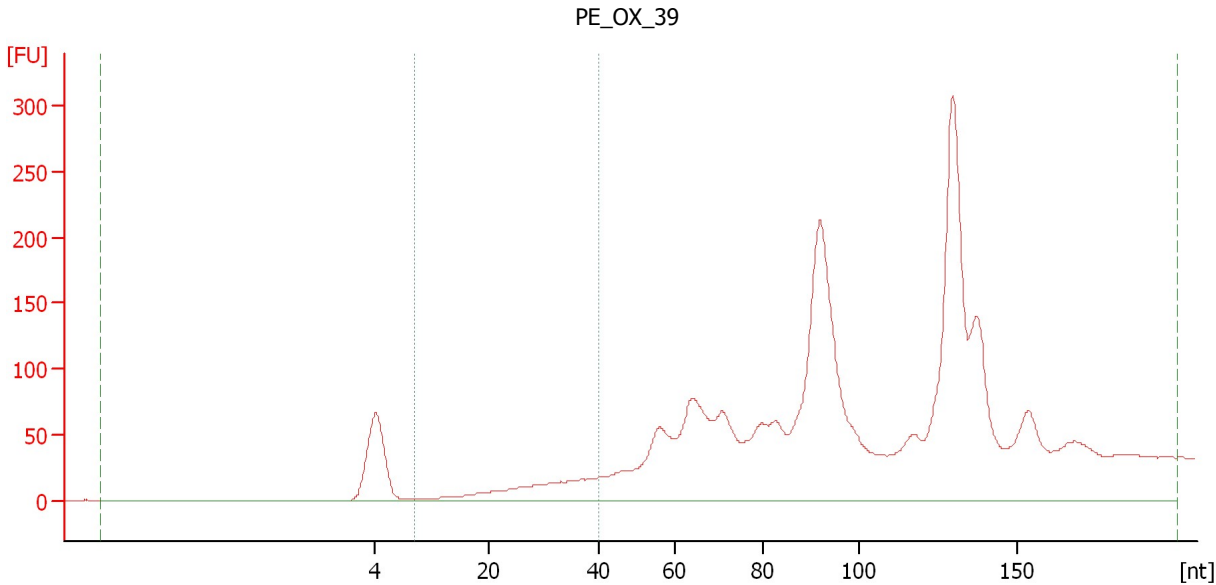
Region table for sample 5 : PE_OX_38

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	210	105	45.3	16,389.1	100	
miRNA	10	40	29	25.0	2,938.3	18	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
 Modified: 8/6/2019 11:16:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : PE_OX_39

Small RNA Concentration [pg/μl]:	20,490.8	Result Flagging Color:	
miRNA Concentration [pg/μl]:	3,410.5	Result Flagging Label:	17 % miRNA; Concentration: 3410.50 pg/μl
miRNA / Small RNA Ratio [%]:	17		

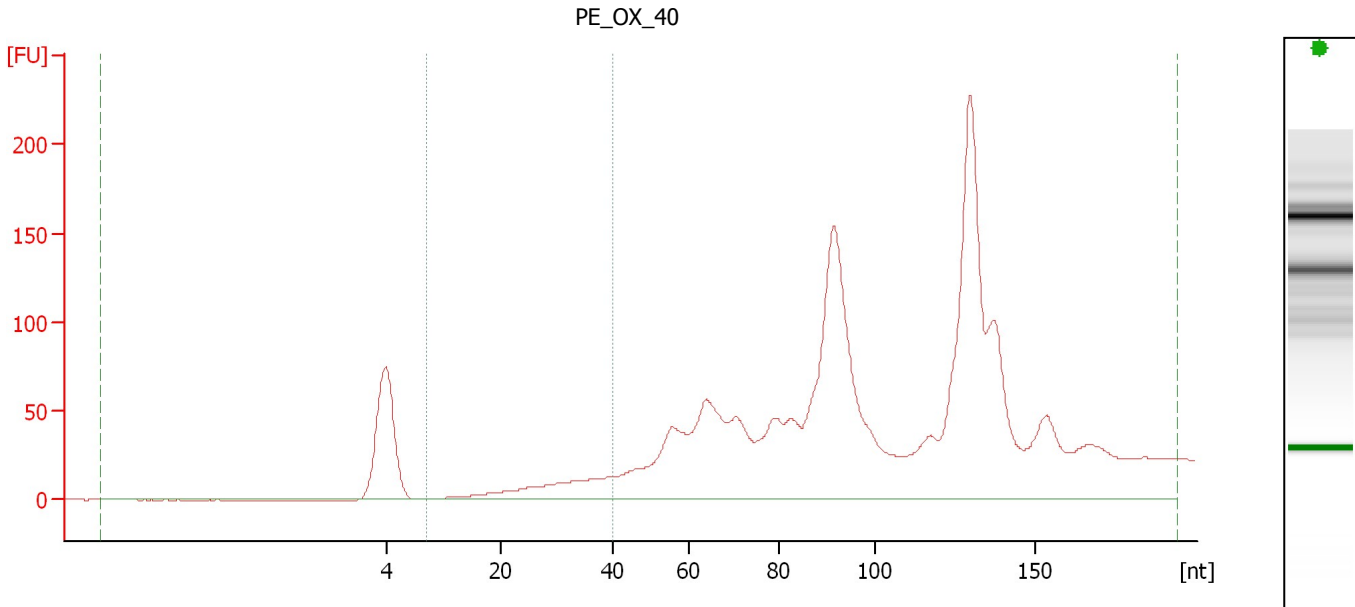
Region table for sample 6 : PE_OX_39

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	201	106	41.8	20,490.8	100	
miRNA	10	40	29	25.0	3,410.5	17	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
 Modified: 8/6/2019 11:16:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : PE_OX_40

Small RNA Concentration [pg/μl]:	13,257.3	Result Flagging Color:	
miRNA Concentration [pg/μl]:	2,136.4	Result Flagging Label:	16 % miRNA; Concentration: 2136.40 pg/μl
miRNA / Small RNA Ratio [%]:	16		

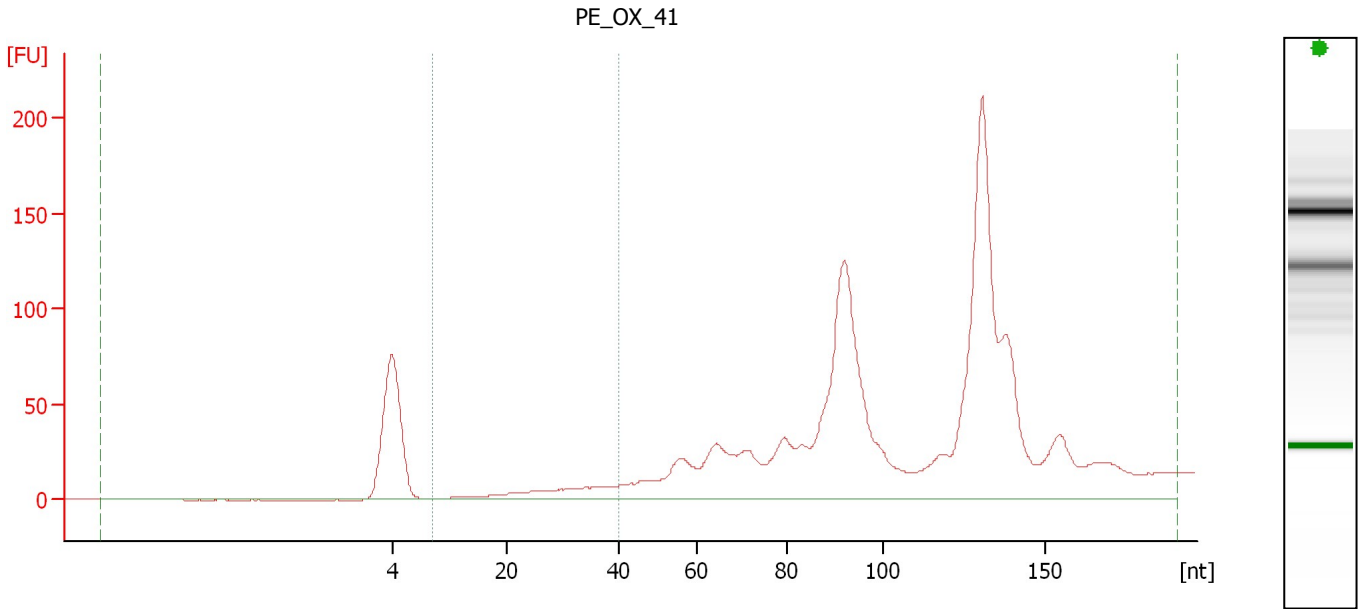
Region table for sample 7 : PE_OX_40

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	194	103	43.2	13,257.3	100	
miRNA	10	40	30	24.0	2,136.4	16	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
 Modified: 8/6/2019 11:16:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : PE_OX_41

Small RNA Concentration [pg/μl]:	8,649.4	Result Flagging Color:	
miRNA Concentration [pg/μl]:	1,214.1	Result Flagging Label:	14 % miRNA; Concentration: 1214.10 pg/μl
miRNA / Small RNA Ratio [%]:	14		

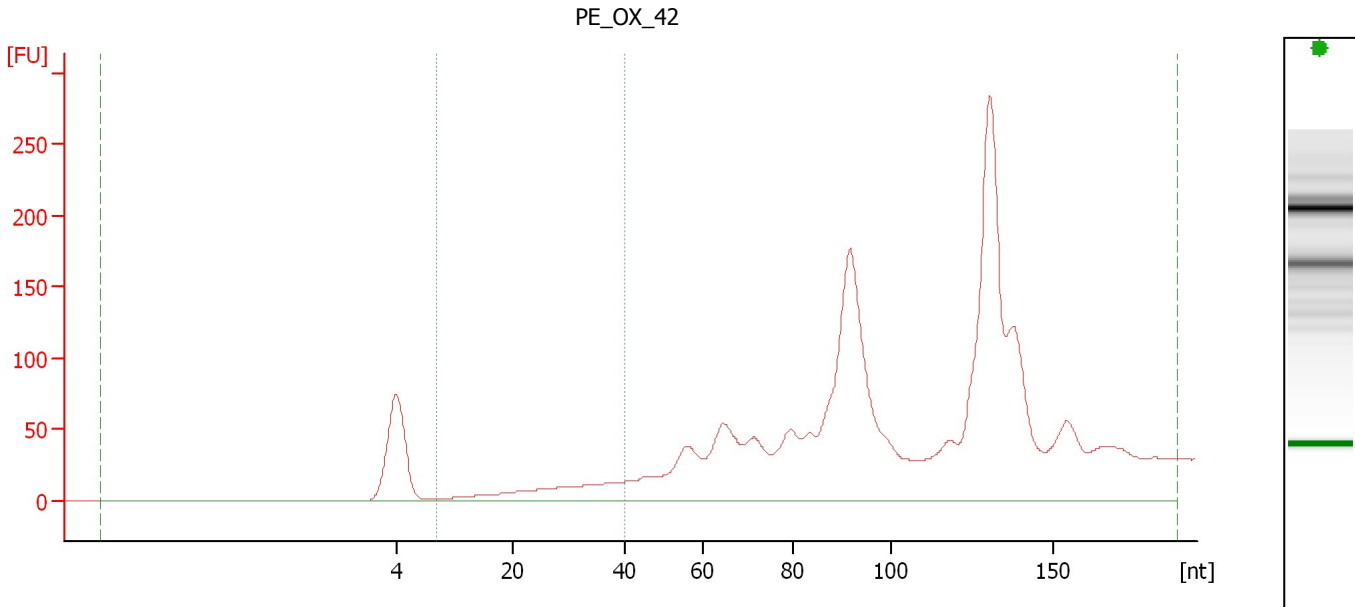
Region table for sample 8 : PE_OX_41

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	191	103	43.0	8,649.4	100	
miRNA	10	40	29	24.8	1,214.1	14	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
 Modified: 8/6/2019 11:16:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : PE_OX_42

Small RNA Concentration [pg/μl]:	14,580.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	2,447.2	Result Flagging Label:	17 % miRNA; Concentration: 2447.20 pg/μl
miRNA / Small RNA Ratio [%]:	17		

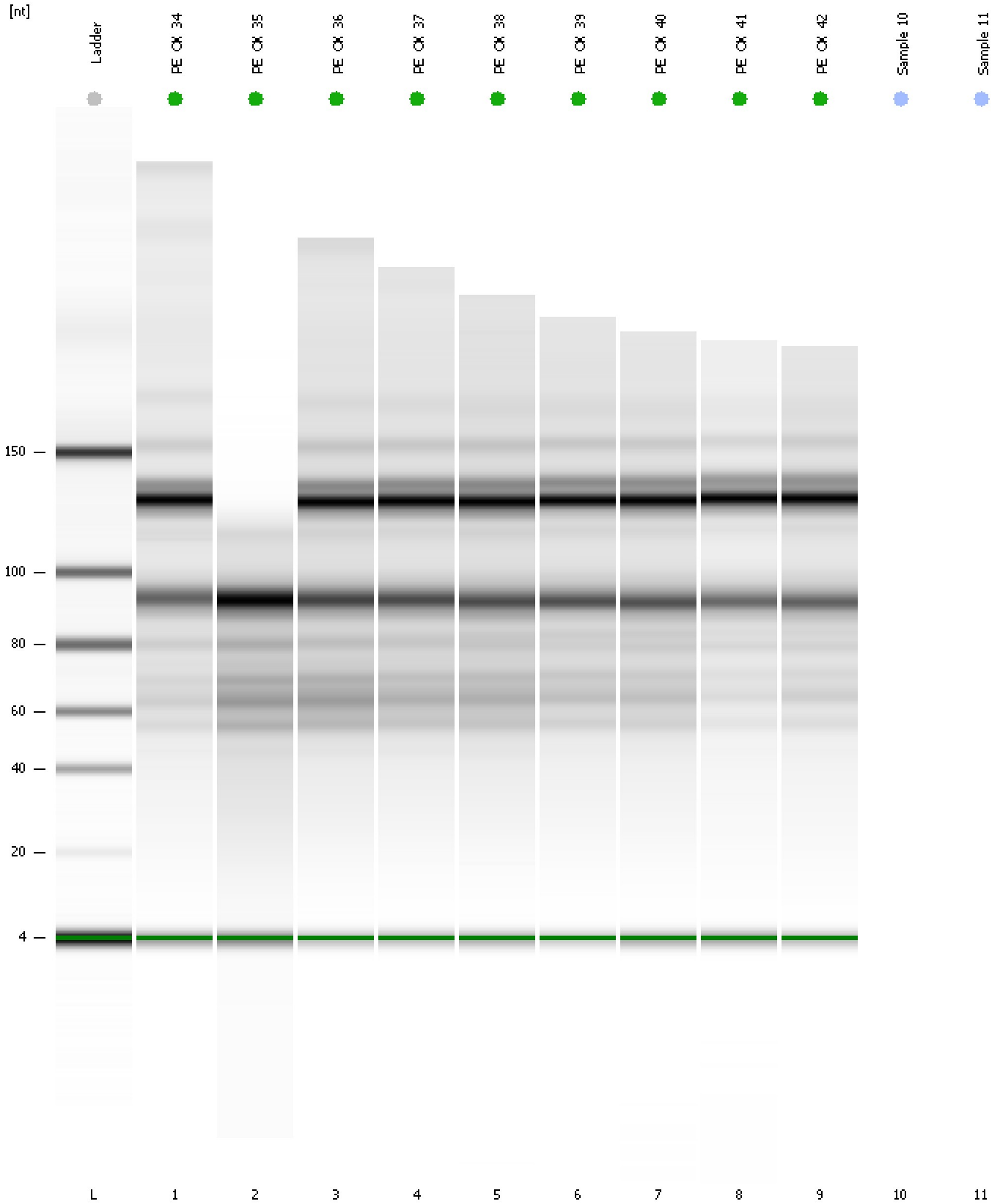
Region table for sample 9 : PE_OX_42

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	188	105	41.2	14,580.1	100	
miRNA	10	40	29	27.5	2,447.2	17	

Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
Modified: 8/6/2019 11:16:24 AM

Gel Image



Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
Modified: 8/6/2019 11:16:24 AM

Invalid Samples

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\2019-08-06\2019-08-06_004.xad

Created: 8/6/2019 10:39:55 AM
 Modified: 8/6/2019 11:16:24 AM

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		8/6/2019 11:08:00 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\2019-08-06\2019-08-06_004.xad)		Instrument	Run		8/6/2019 10:40:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/6/2019 10:40:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/6/2019 10:40:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/6/2019 10:40:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/6/2019 10:40:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/6/2019 10:40:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/6/2019 10:40:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1