

Assay Class: Small RNA
Data Path: Z:\XADs\2020-06-24\Bioanalyzer1_Small RNA_2020-06-24_001.xad

Created: 6/24/2020 11:40:06 AM
Modified: 6/24/2020 12:19:19 PM

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 (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Small RNA Series II.xsy

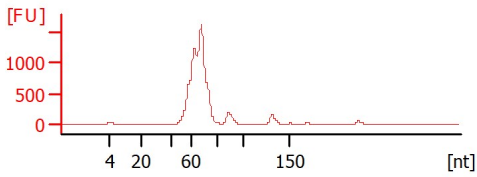
Assay Class: Small RNA
Version: 1.2
Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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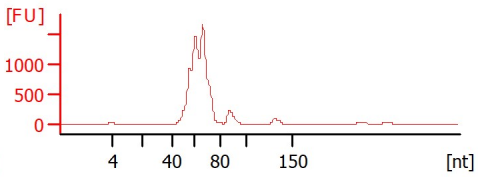
Chip Information:

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

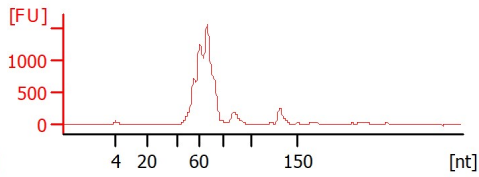
1 (FM)
6 % miRNA; Concentration: 4885.60 pg/µl



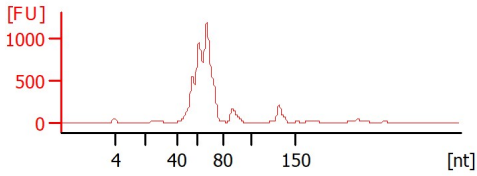
2 (FM)
8 % miRNA; Concentration: 6727.10 pg/µl



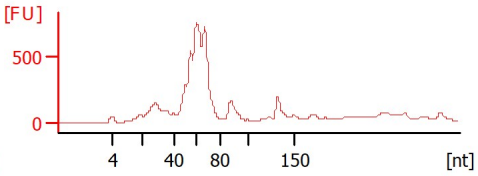
3 (FM)
8 % miRNA; Concentration: 6731.10 pg/µl



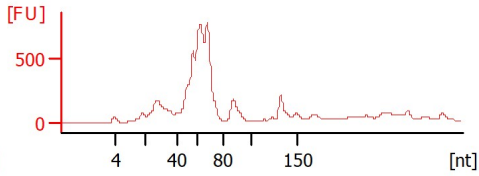
4 (FM)
10 % miRNA; Concentration: 6235.30 pg/µl



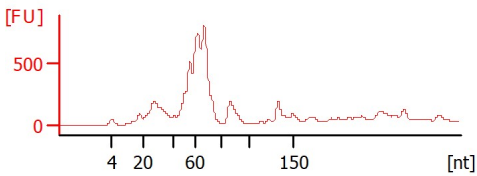
5 (14d)
39 % miRNA; Concentration: 31297.50 p...



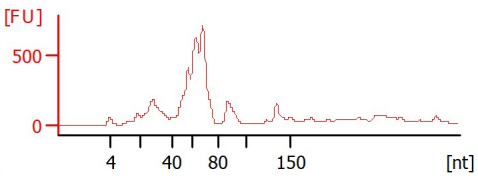
6 (14d)
41 % miRNA; Concentration: 37257.10 p...



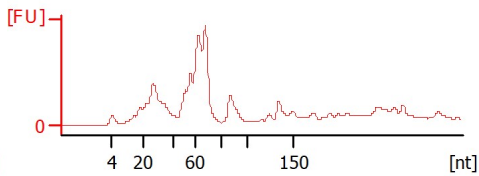
7 (14d)
43 % miRNA; Concentration: 38464 pg/µl



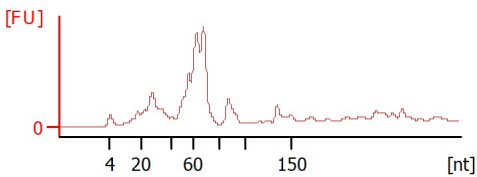
8 (14d)
45 % miRNA; Concentration: 32296.20 p...



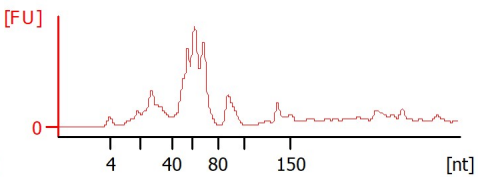
9 (28d)
55 % miRNA; Concentration: 38456.60 p...



10 (28d)
50 % miRNA; Concentration: 29066.90 p...















11 (28d)
49 % miRNA; Concentration: 28887 pg/µl



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1 (FM)		✓	6 % miRNA; Concentration: 4885.60 pg/μl	
2 (FM)		✓	8 % miRNA; Concentration: 6727.10 pg/μl	
3 (FM)		✓	8 % miRNA; Concentration: 6731.10 pg/μl	
4 (FM)		✓	10 % miRNA; Concentration: 6235.30 pg/μl	
5 (14d)		✓	39 % miRNA; Concentration: 31297.50 pg/μl	
6 (14d)		✓	41 % miRNA; Concentration: 37257.10 pg/μl	
7 (14d)		✓	43 % miRNA; Concentration: 38464 pg/μl	
8 (14d)		✓	45 % miRNA; Concentration: 32296.20 pg/μl	
9 (28d)		✓	55 % miRNA; Concentration: 38456.60 pg/μl	
10 (28d)		✓	50 % miRNA; Concentration: 29066.90 pg/μl	
11 (28d)		✓	49 % miRNA; Concentration: 28887 pg/μl	
Ladder		✓	Number of Peaks: 6	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

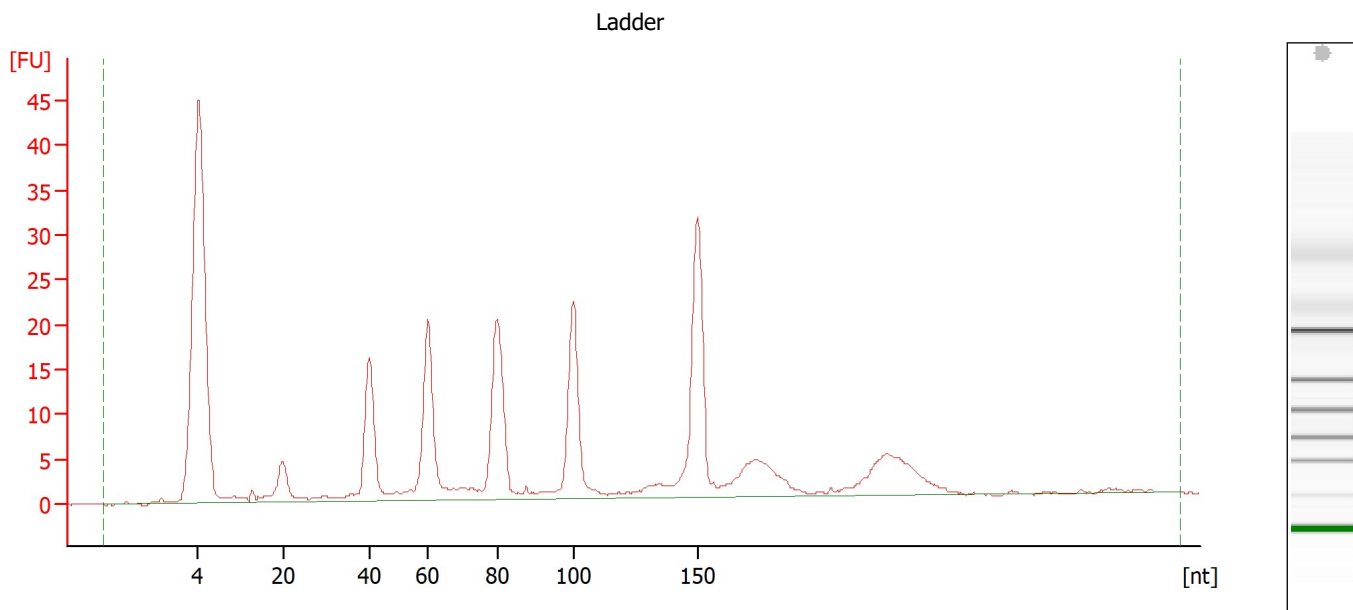
Ladder

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

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Modified: 6/24/2020 12:19:19 PM

Electropherogram Summary



Overall Results for Ladder

Result Flagging Color:

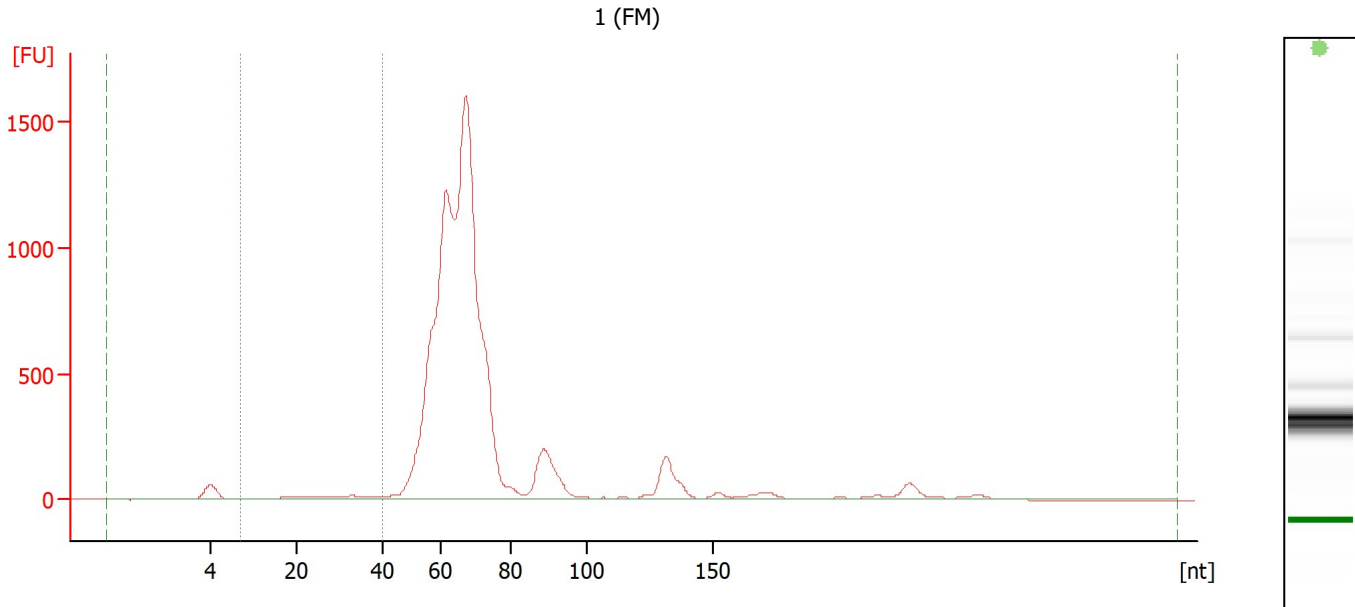
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA
 Data Path: Z:\XADs\2020-06-24\Bioanalyzer1_Small RNA_2020-06-24_001.xad

Created: 6/24/2020 11:40:06 AM
 Modified: 6/24/2020 12:19:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1 (FM)

Small RNA Concentration [pg/μl]:	76,200.0	Result Flagging Color:	
miRNA Concentration [pg/μl]:	4,885.6	Result Flagging Label:	6 % miRNA; Concentration: 4885.60 pg/μl
miRNA / Small RNA Ratio [%]:	6		

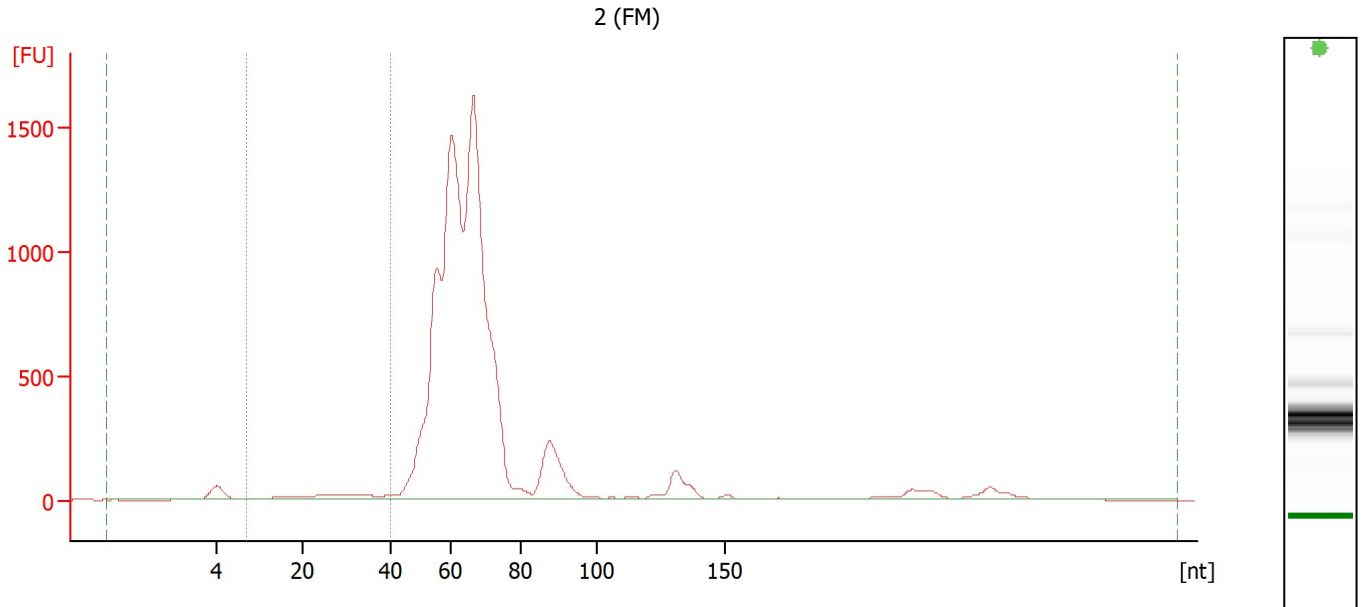
Region table for sample 1 : 1 (FM)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	335	75	48.6	76,199.9	100	
miRNA	10	40	27	27.4	4,885.6	6	

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Created: 6/24/2020 11:40:06 AM
 Modified: 6/24/2020 12:19:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2 (FM)

Small RNA Concentration [pg/μl]:	85,678.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	6,727.1	Result Flagging Label:	8 % miRNA; Concentration: 6727.10 pg/μl
miRNA / Small RNA Ratio [%]:	8		

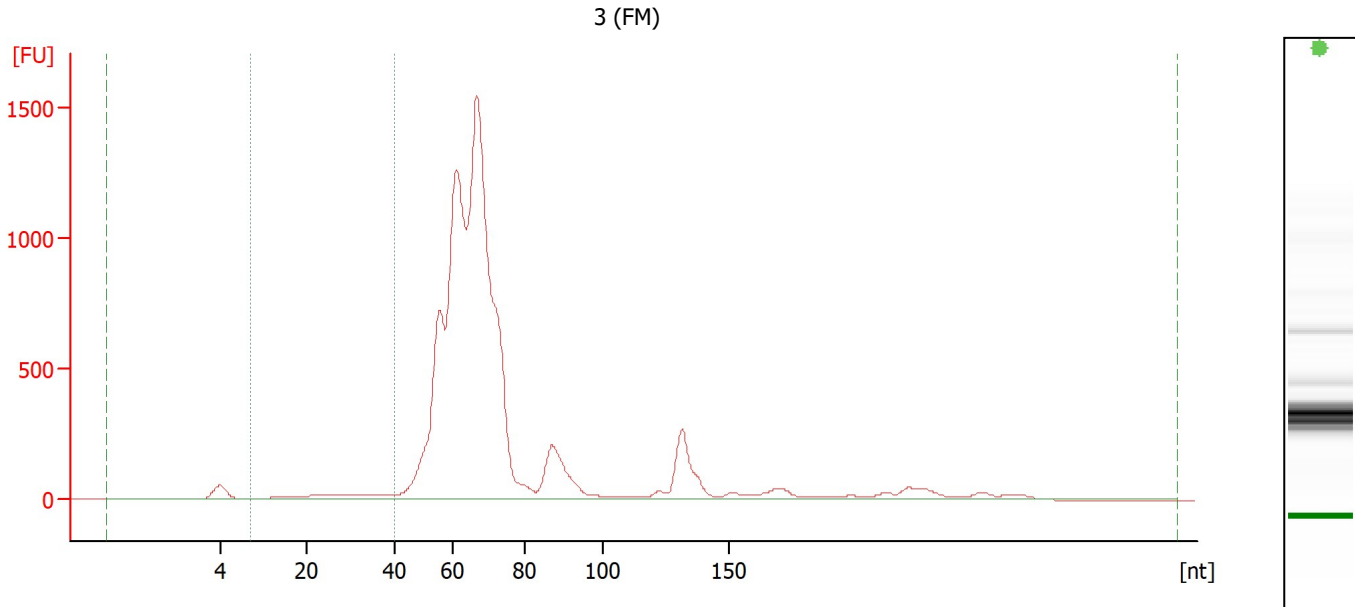
Region table for sample 2 : 2 (FM)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	328	73	53.9	85,678.1	100	
miRNA	10	40	27	28.8	6,727.1	8	

Assay Class: Small RNA
 Data Path: Z:\XADs\2020-06-24\Bioanalyzer1_Small RNA_2020-06-24_001.xad

Created: 6/24/2020 11:40:06 AM
 Modified: 6/24/2020 12:19:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3 (FM)

Small RNA Concentration [pg/μl]:	82,421.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	6,731.1	Result Flagging Label:	8 % miRNA; Concentration: 6731.10 pg/μl
miRNA / Small RNA Ratio [%]:	8		

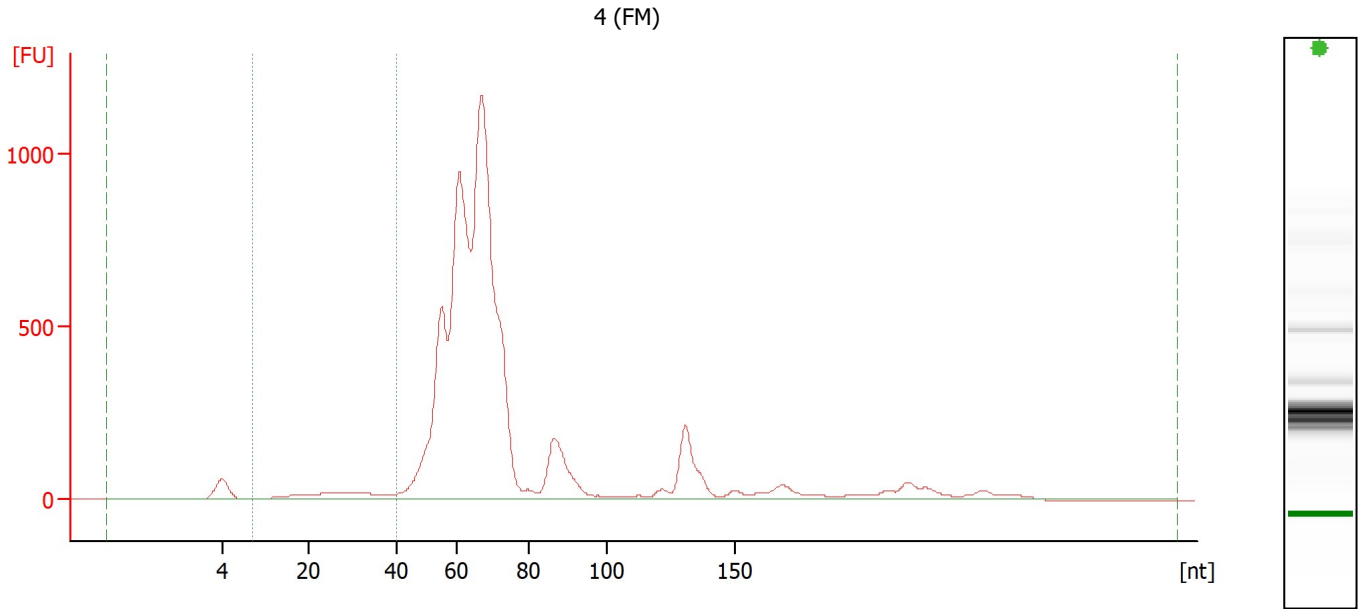
Region table for sample 3 : 3 (FM)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	326	78	52.8	82,421.5	100	
miRNA	10	40	26	29.3	6,731.1	8	

Assay Class: Small RNA
 Data Path: Z:\XADs\2020-06-24\Bioanalyzer1_Small RNA_2020-06-24_001.xad

Created: 6/24/2020 11:40:06 AM
 Modified: 6/24/2020 12:19:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 4 (FM)

Small RNA Concentration [pg/μl]: 62,016.6
 miRNA Concentration [pg/μl]: 6,235.3
 miRNA / Small RNA Ratio [%]: 10

Result Flagging Color:
 Result Flagging Label: 10 % miRNA;
 Concentration: 6235.30 pg/μl

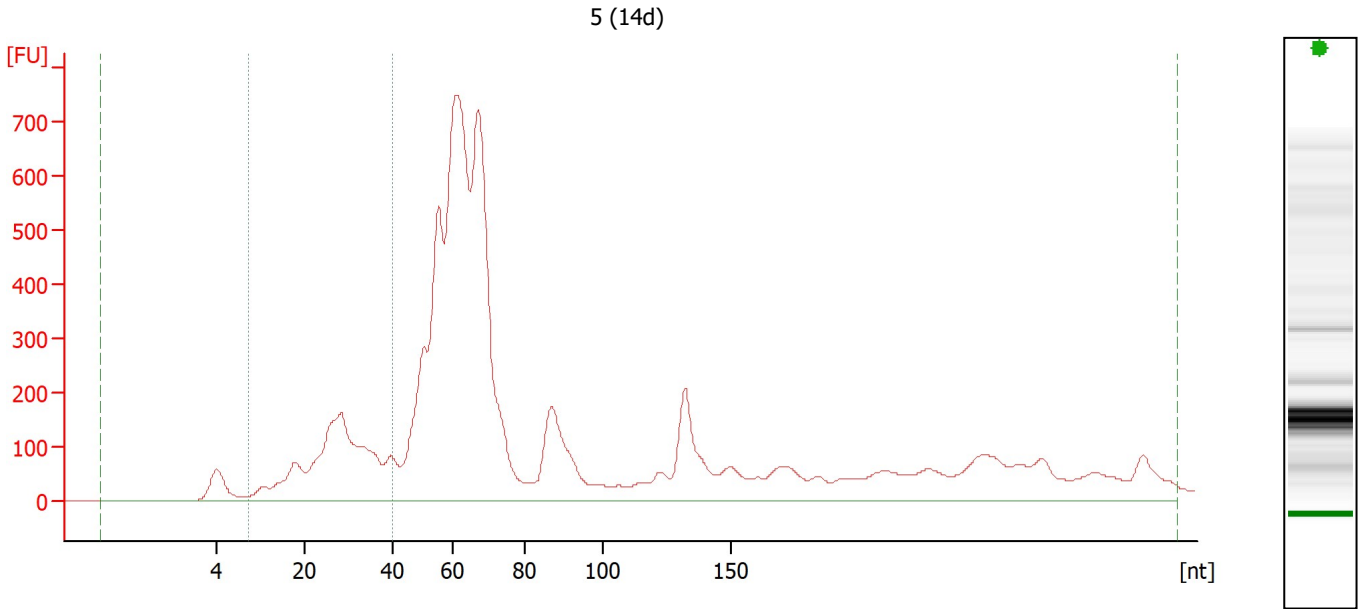
Region table for sample 4 : 4 (FM)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	323	78	54.9	62,016.6	100	
miRNA	10	40	27	28.0	6,235.3	10	

Assay Class: Small RNA
 Data Path: Z:\XADs\2020-06-24\Bioanalyzer1_Small RNA_2020-06-24_001.xad

Created: 6/24/2020 11:40:06 AM
 Modified: 6/24/2020 12:19:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 5 (14d)

Small RNA Concentration [pg/μl]:	79,499.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	31,297.6	Result Flagging Label:	39 % miRNA; Concentration: 31297.50 pg/μl
miRNA / Small RNA Ratio [%]:	39		

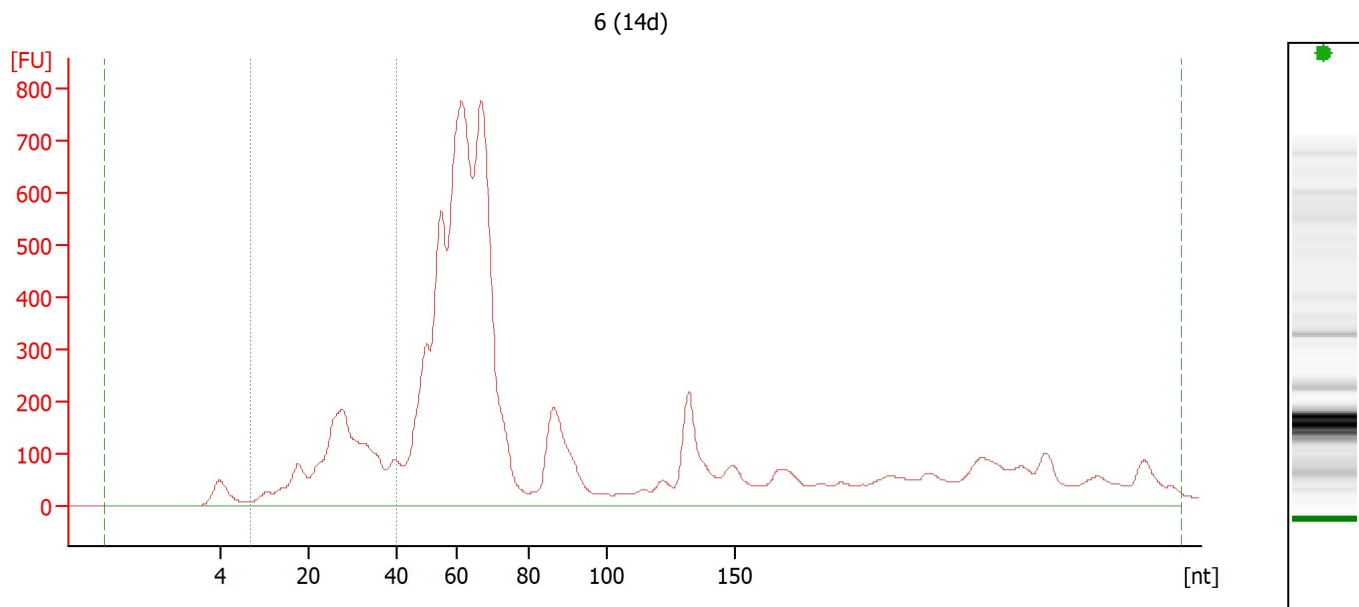
Region table for sample 5 : 5 (14d)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	323	108	76.7	79,499.6	100	
miRNA	10	40	27	26.2	31,297.5	39	

Assay Class: Small RNA
 Data Path: Z:\XADs\2020-06-24\Bioanalyzer1_Small RNA_2020-06-24_001.xad

Created: 6/24/2020 11:40:06 AM
 Modified: 6/24/2020 12:19:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 6 (14d)

Small RNA Concentration [pg/μl]:	91,777.0	Result Flagging Color:	
miRNA Concentration [pg/μl]:	37,257.1	Result Flagging Label:	41 % miRNA; Concentration: 37257.10 pg/μl
miRNA / Small RNA Ratio [%]:	41		

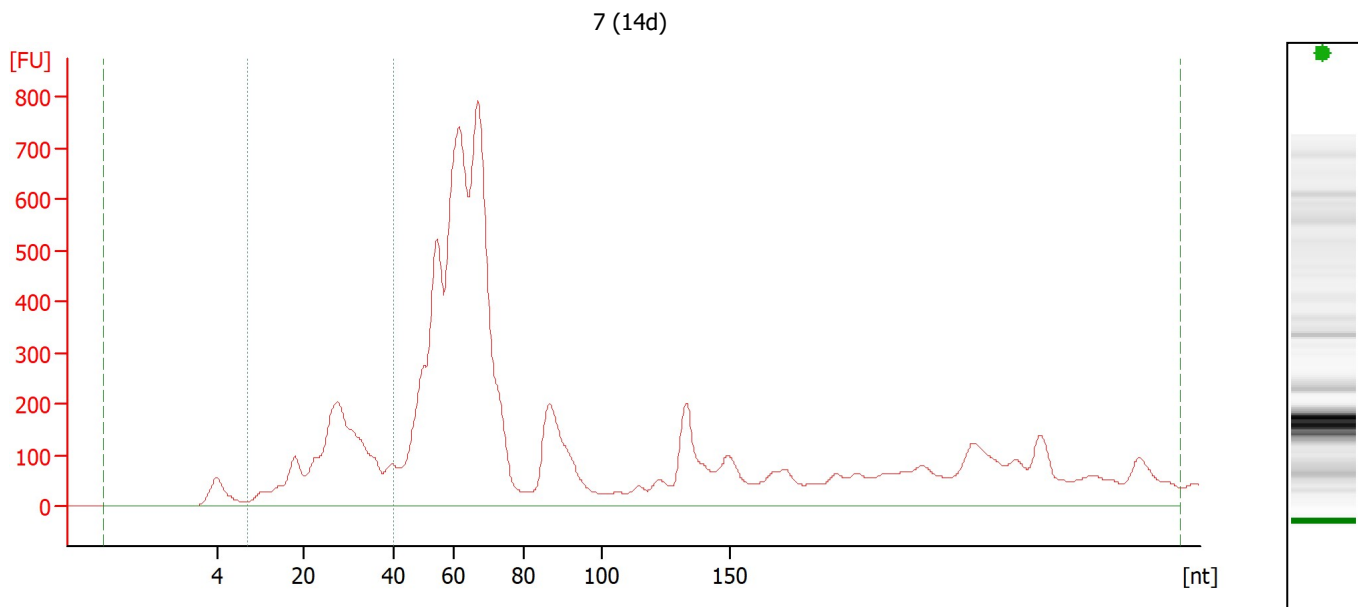
Region table for sample 6 : 6 (14d)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	324	107	77.3	91,777.0	100	
miRNA	10	40	27	25.5	37,257.1	41	

Assay Class: Small RNA
 Data Path: Z:\XADs\2020-06-24\Bioanalyzer1_Small RNA_2020-06-24_001.xad

Created: 6/24/2020 11:40:06 AM
 Modified: 6/24/2020 12:19:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 7 (14d)

Small RNA Concentration [pg/μl]:	89,862.8	Result Flagging Color:	████████
miRNA Concentration [pg/μl]:	38,464.0	Result Flagging Label:	43 % miRNA; Concentration: 38464 pg/μl
miRNA / Small RNA Ratio [%]:	43		

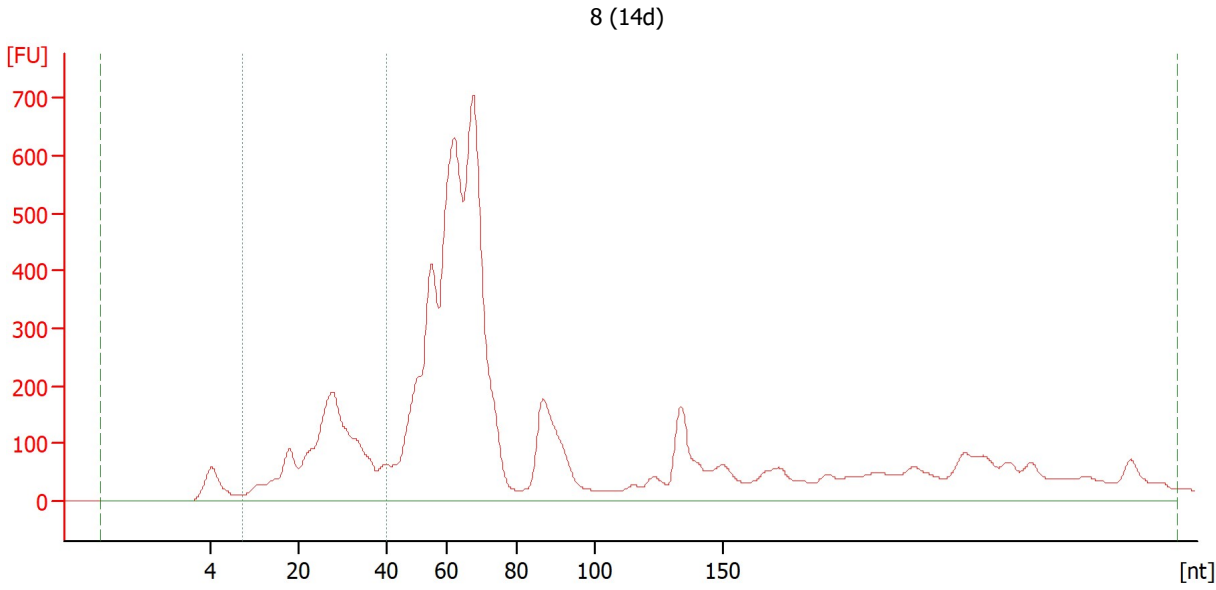
Region table for sample 7 : 7 (14d)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	326	114	76.0	89,862.8	100	████
miRNA	10	40	27	25.7	38,464.0	43	████

Assay Class: Small RNA
 Data Path: Z:\XADs\2020-06-24\Bioanalyzer1_Small RNA_2020-06-24_001.xad

Created: 6/24/2020 11:40:06 AM
 Modified: 6/24/2020 12:19:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 8 (14d)

Small RNA Concentration [pg/μl]:	71,229.5	Result Flagging Color:	
miRNA Concentration [pg/μl]:	32,296.2	Result Flagging Label:	45 % miRNA; Concentration: 32296.20 pg/μl
miRNA / Small RNA Ratio [%]:	45		

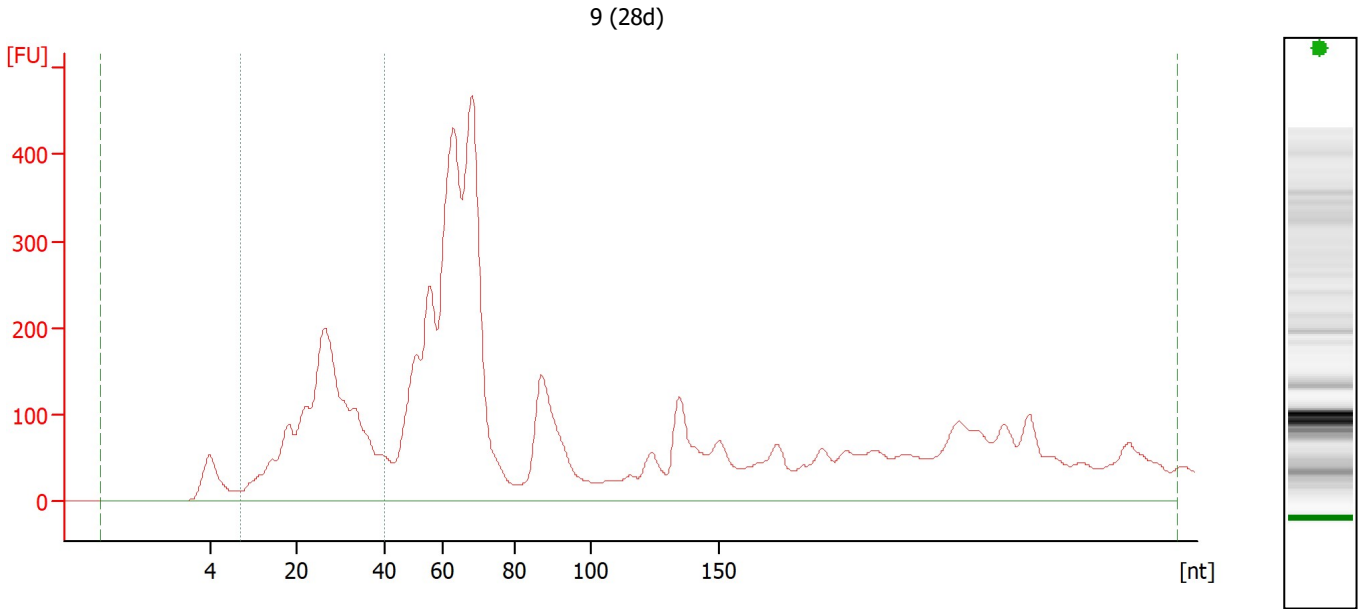
Region table for sample 8 : 8 (14d)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	328	108	77.9	71,229.5	100	
miRNA	10	40	27	25.8	32,296.2	45	

Assay Class: Small RNA
 Data Path: Z:\XADs\2020-06-24\Bioanalyzer1_Small RNA_2020-06-24_001.xad

Created: 6/24/2020 11:40:06 AM
 Modified: 6/24/2020 12:19:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 9 (28d)

Small RNA Concentration [pg/μl]:	70,274.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	38,456.6	Result Flagging Label:	55 % miRNA; Concentration: 38456.60 pg/μl
miRNA / Small RNA Ratio [%]:	55		

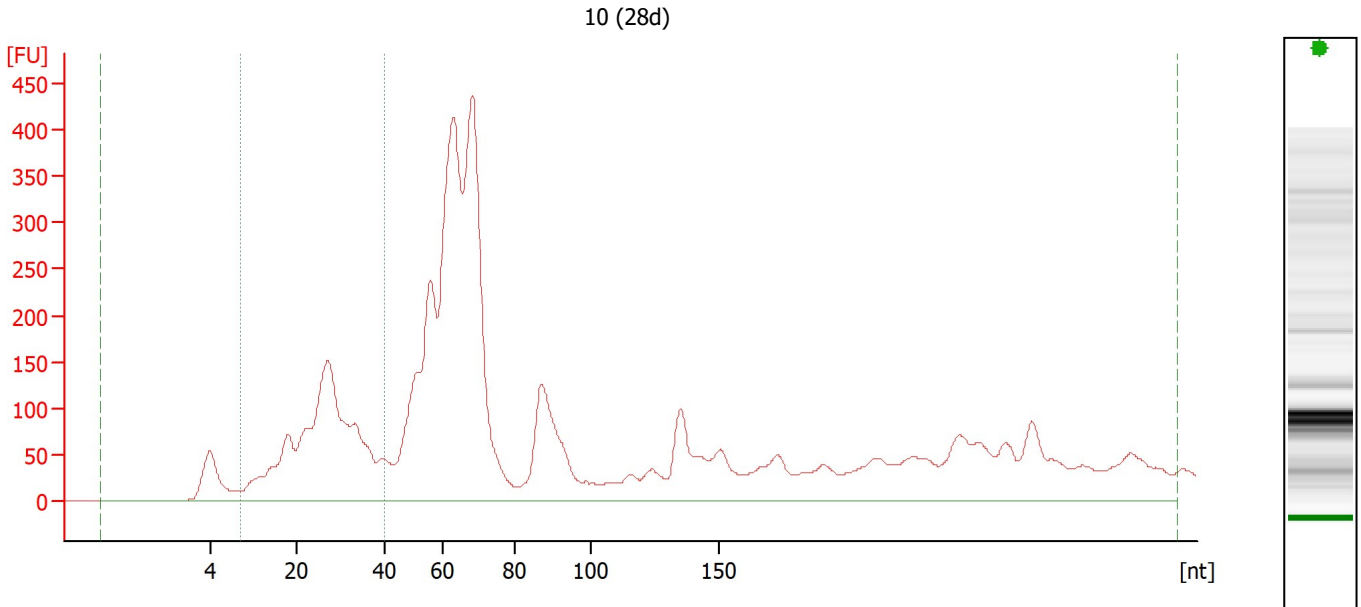
Region table for sample 9 : 9 (28d)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	330	123	75.8	70,274.6	100	
miRNA	10	40	26	26.0	38,456.6	55	

Assay Class: Small RNA
 Data Path: Z:\XADs\2020-06-24\Bioanalyzer1_Small RNA_2020-06-24_001.xad

Created: 6/24/2020 11:40:06 AM
 Modified: 6/24/2020 12:19:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 10 (28d)

Small RNA Concentration [pg/μl]:	57,773.0	Result Flagging Color:	
miRNA Concentration [pg/μl]:	29,066.9	Result Flagging Label:	50 % miRNA; Concentration: 29066.90 pg/μl
miRNA / Small RNA Ratio [%]:	50		

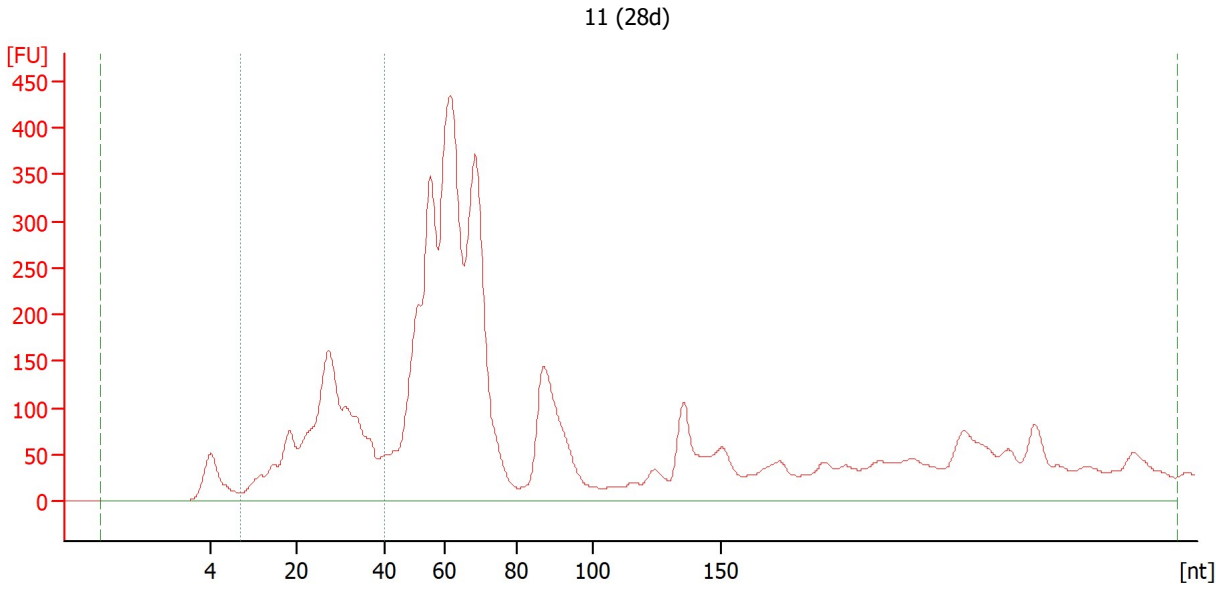
Region table for sample 10 : 10 (28d)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	330	119	77.1	57,773.0	100	
miRNA	10	40	26	26.9	29,066.9	50	

Assay Class: Small RNA
 Data Path: Z:\XADs\2020-06-24\Bioanalyzer1_Small RNA_2020-06-24_001.xad

Created: 6/24/2020 11:40:06 AM
 Modified: 6/24/2020 12:19:19 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 11 (28d)

Small RNA Concentration [pg/μl]:	58,836.4	Result Flagging Color:	
miRNA Concentration [pg/μl]:	28,887.0	Result Flagging Label:	49 % miRNA; Concentration: 28887 pg/μl
miRNA / Small RNA Ratio [%]:	49		

Region table for sample 11 : 11 (28d)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	329	114	78.5	58,836.4	100	
miRNA	10	40	27	26.4	28,887.0	49	

Assay Class: Small RNA
Data Path: Z:\XADs\2020-06-24\Bioanalyzer1_Small RNA_2020-06-24_001.xad

Created: 6/24/2020 11:40:06 AM
Modified: 6/24/2020 12:19:19 PM

Gel Image

Assay Class: Small RNA
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Created: 6/24/2020 11:40:06 AM
 Modified: 6/24/2020 12:19:19 PM

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		6/24/2020 12:12:01 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-06-24\Bioanalyze r1_Small RNA_2020-06-24_001.xad)		Instrument	Run		6/24/2020 11:40:07 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/24/2020 11:40:07 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/24/2020 11:40:07 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/24/2020 11:40:07 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/24/2020 11:40:07 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/24/2020 11:40:07 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/24/2020 11:40:07 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB