

Assay Class: Small RNA  
Data Path: Z:\XADs\2020-06-24\Bioanalyzer1\_Small RNA\_2020-06-24\_002.xad

Created: 6/24/2020 12:19:31 PM  
Modified: 6/24/2020 12:44:28 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

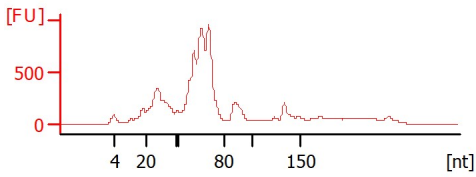
Assay Class: Small RNA  
Version: 1.2  
Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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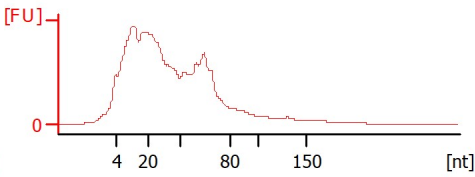
Chip Information:

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

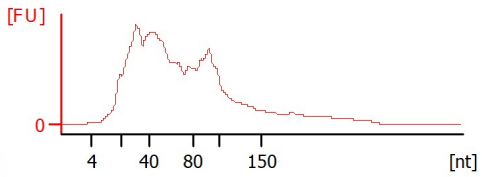
**12 (28d)**  
60 % miRNA; Concentration: 71287.40 p...



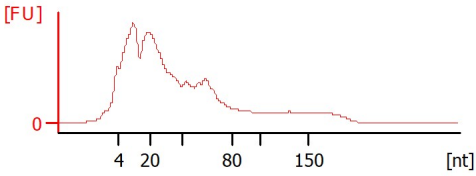
**13 (dig)**  
83 % miRNA; Concentration: 39175 pg/μl



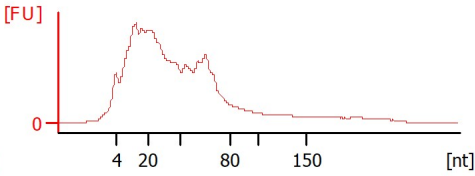
**14 (dig)**  
71 % miRNA; Concentration: 5286674.50...



**15 (dig)**  
84 % miRNA; Concentration: 31640.70 p...















**16 (dig)**  
83 % miRNA; Concentration: 38895 pg/μl



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
12 (28d)		✓	60 % miRNA; Concentration: 71287.40 pg/μl	
13 (dig)		✓	83 % miRNA; Concentration: 39175 pg/μl	
14 (dig)		✓	71 % miRNA; Concentration: 5286674.50 pg/μl	
15 (dig)		✓	84 % miRNA; Concentration: 31640.70 pg/μl	
16 (dig)		✓	83 % miRNA; Concentration: 38895 pg/μl	
Sample 6				
Sample 7				
Sample 8				
Sample 9				
Sample 10				
Sample 11				
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

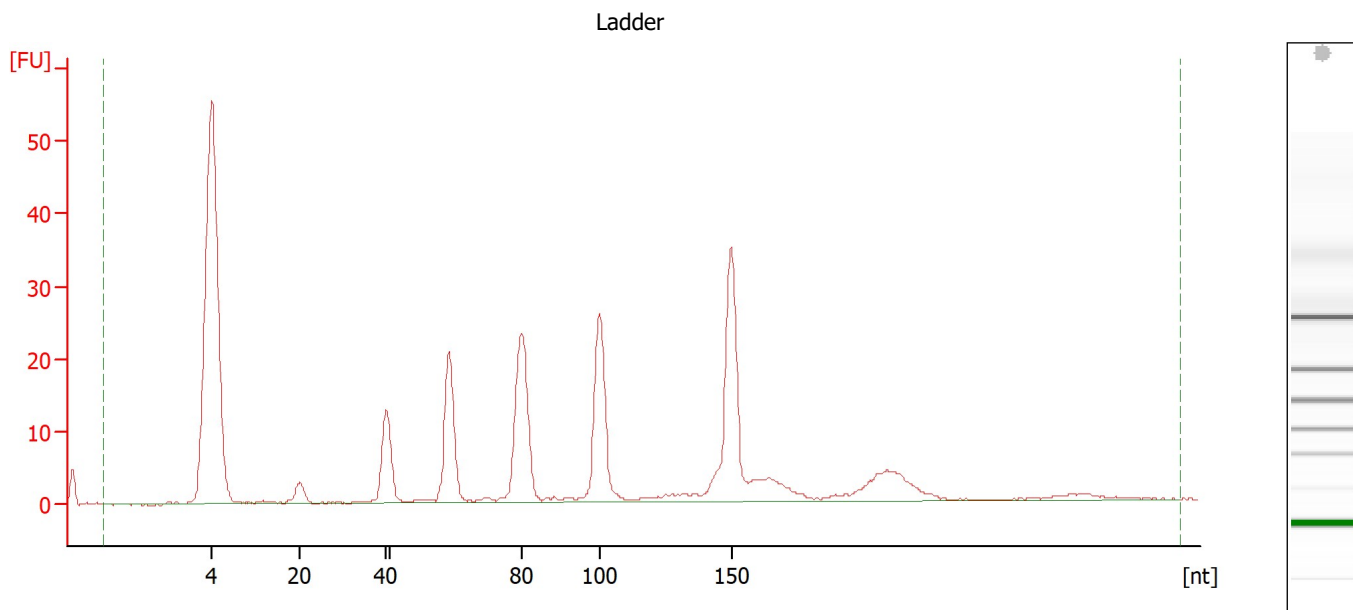
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Result Flagging Color:

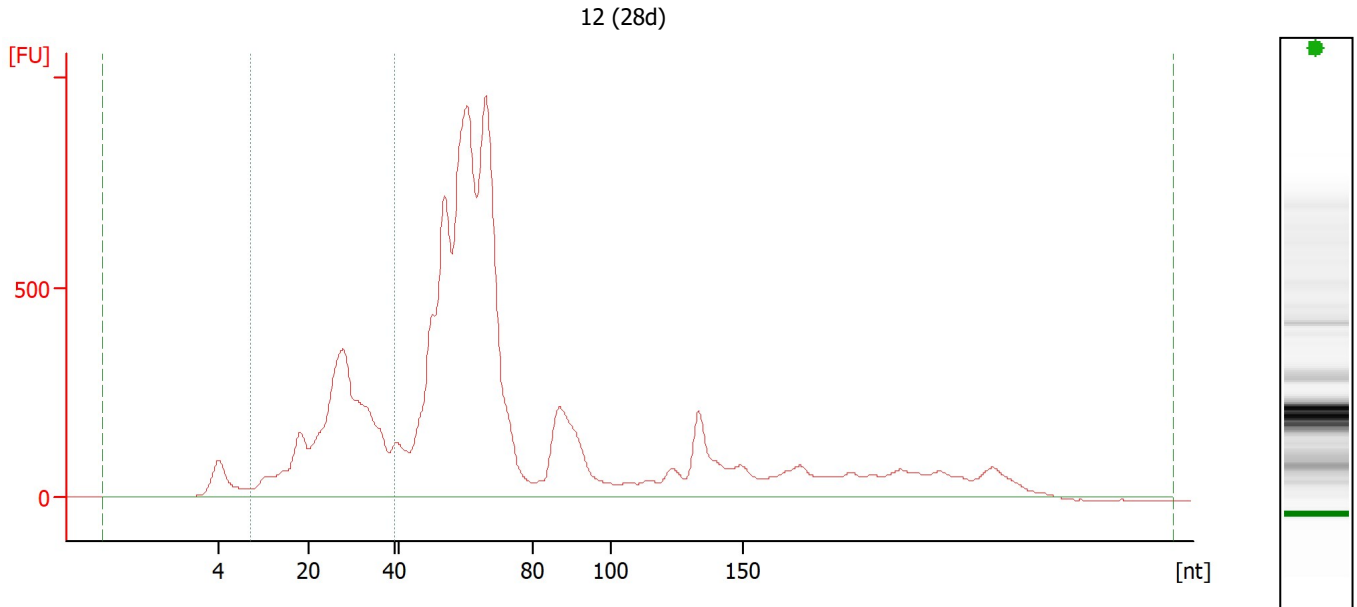
Result Flagging Label:

Number of Peaks: 6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 12 (28d)**

Small RNA Concentration [pg/μl]:	118,371.0	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	71,287.4	Result Flagging Label:	60 % miRNA; Concentration: 71287.40 pg/μl
miRNA / Small RNA Ratio [%]:	60		

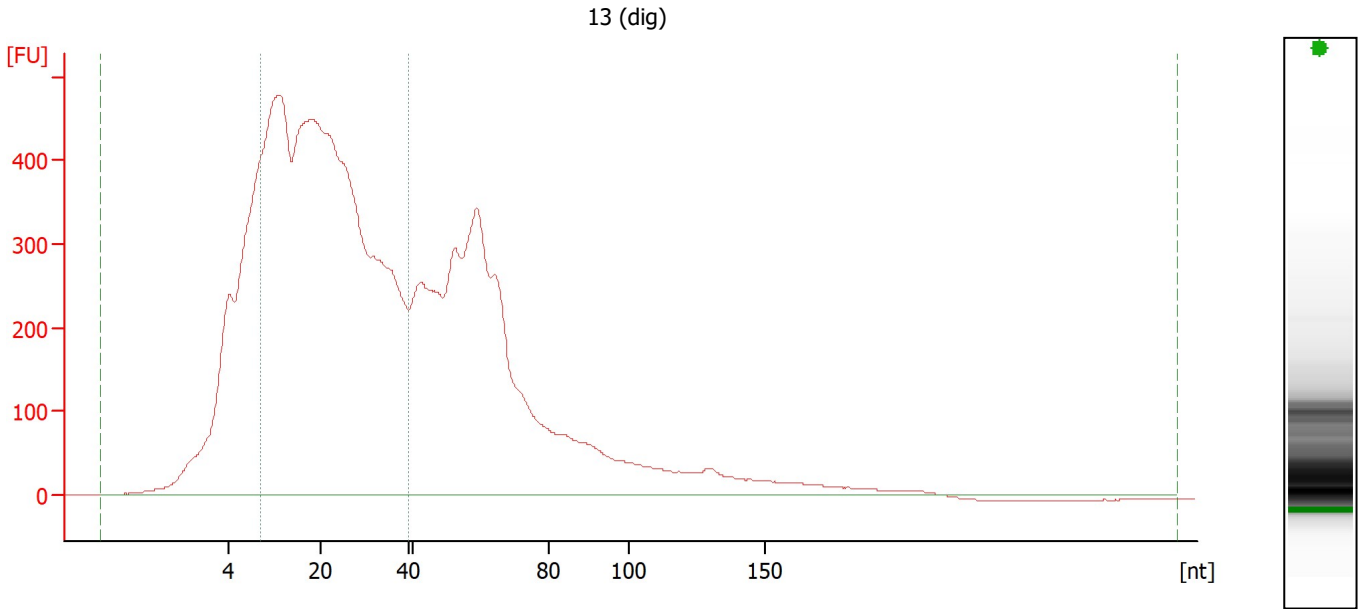
**Region table for sample 1 : 12 (28d)**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	311	84	65.2	118,371.0	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	27	25.5	71,287.4	60	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 13 (dig)**

Small RNA Concentration [pg/μl]:	47,223.8	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	39,175.0	Result Flagging Label:	83 % miRNA; Concentration: 39175 pg/μl
miRNA / Small RNA Ratio [%]:	83		

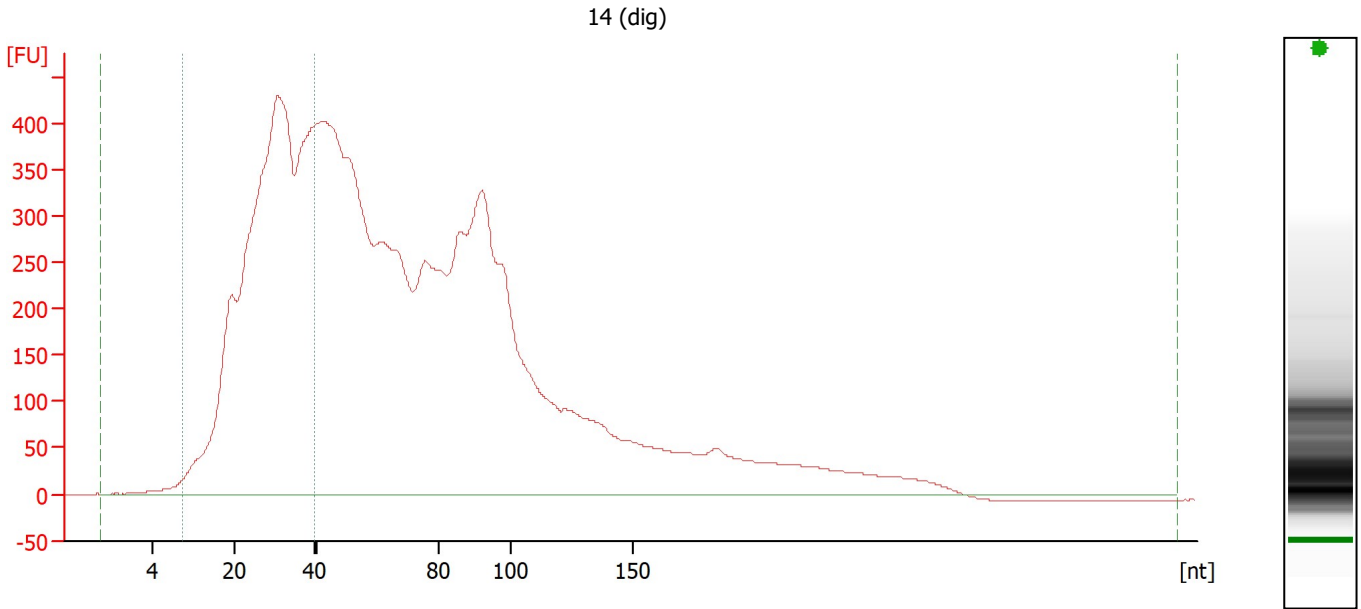
**Region table for sample 2 : 13 (dig)**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	302	41	82.8	47,223.8	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	22	38.2	39,175.0	83	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 14 (dig)**

Small RNA Concentration [pg/μl]:	7,475,879.0	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	5,286,675.0	Result Flagging Label:	71 % miRNA; Concentration: 5286674.50 pg/μl
miRNA / Small RNA Ratio [%]:	71		

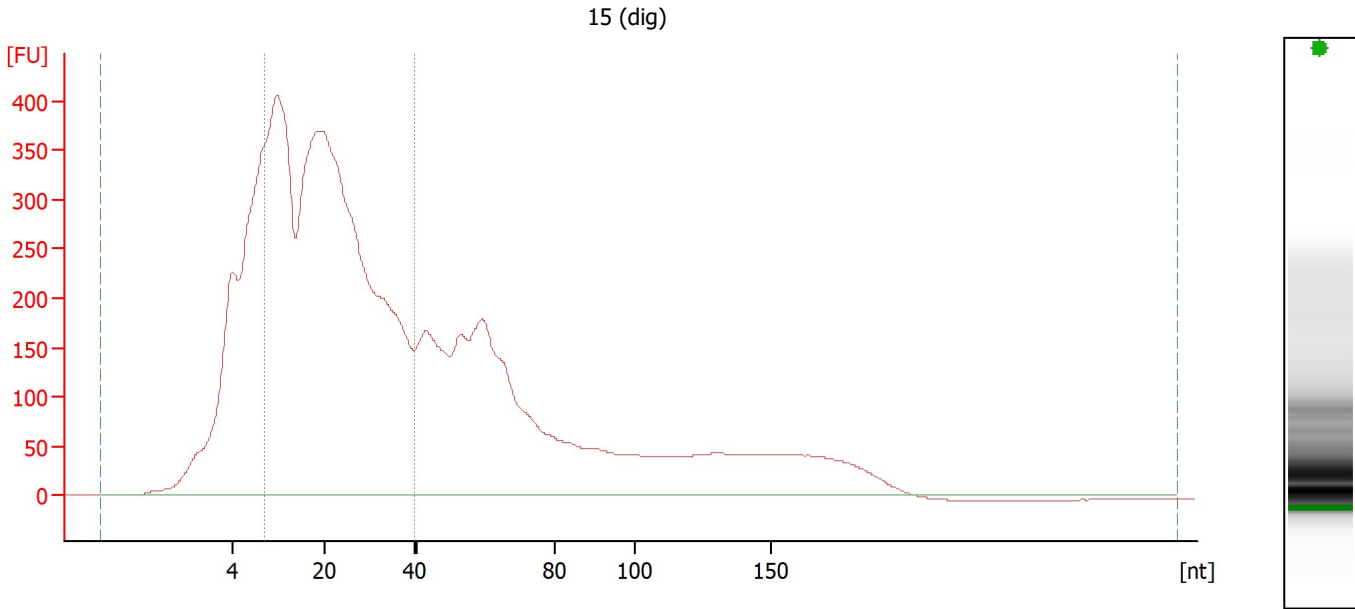
**Region table for sample 3 : 14 (dig)**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	374	78	63.8	7,475,878.5	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	29	24.5	5,286,674.5	71	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 15 (dig)**

Small RNA Concentration [pg/μl]:	37,674.5	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	31,640.8	Result Flagging Label:	84 % miRNA; Concentration: 31640.70 pg/μl
miRNA / Small RNA Ratio [%]:	84		

**Region table for sample 4 : 15 (dig)**

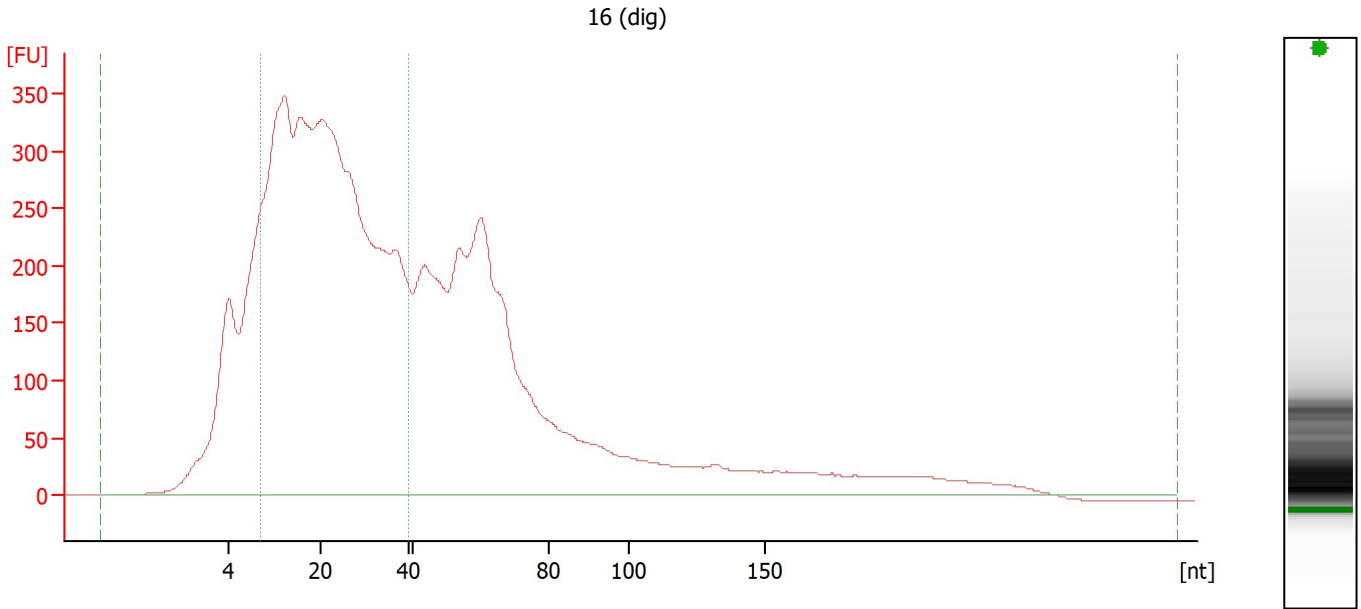
Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	298	45	96.4	37,674.5	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	21	38.6	31,640.7	84	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>



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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 16 (dig)**

Small RNA Concentration [pg/μl]:	47,095.9	Result Flagging Color:	<span style="background-color: green; width: 20px; height: 10px; display: inline-block;"></span>
miRNA Concentration [pg/μl]:	38,895.0	Result Flagging Label:	83 % miRNA; Concentration: 38895 pg/μl
miRNA / Small RNA Ratio [%]:	83		

**Region table for sample 5 : 16 (dig)**

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	302	49	93.2	47,095.9	100	<span style="background-color: purple; width: 15px; height: 10px; display: inline-block;"></span>
miRNA	10	40	22	37.8	38,895.0	83	<span style="background-color: green; width: 15px; height: 10px; display: inline-block;"></span>

Assay Class: Small RNA  
Data Path: Z:\XADs\2020-06-24\Bioanalyzer1\_Small RNA\_2020-06-24\_002.xad

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**Gel Image**

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**Invalid Samples**

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: Z:\XADs\2020-06-24\Bioanalyzer1\_Small RNA\_2020-06-24\_002.xad

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**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 6)		Instrument	Run		6/24/2020 12:40:00 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_002.xad)		Instrument	Run		6/24/2020 12:19:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/24/2020 12:19:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/24/2020 12:19:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/24/2020 12:19:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/24/2020 12:19:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/24/2020 12:19:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/24/2020 12:19:37 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB