

Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-28\2018-09-28_001.xad

Created: 9/28/2018 12:54:52 PM
Modified: 9/28/2018 1:41:37 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\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Small RNA Series II.xsy

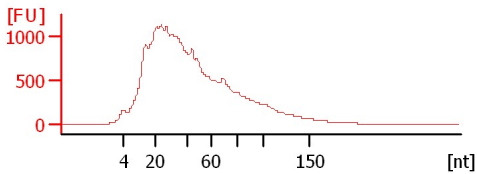
Assay Class: Small RNA
Version: 1.2
Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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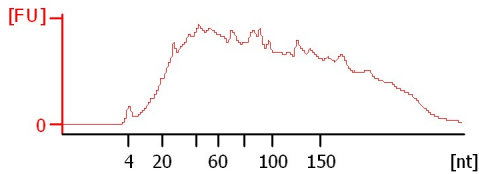
Chip Information:

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

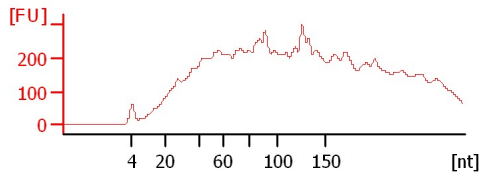
UCD 14-07 Fractions (1:2)
75 % miRNA; Concentration: 64705.10 p...



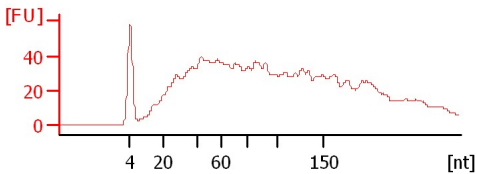
UCD 17-13 Fractions (1:2)
43 % miRNA; Concentration: 44711.50 p...



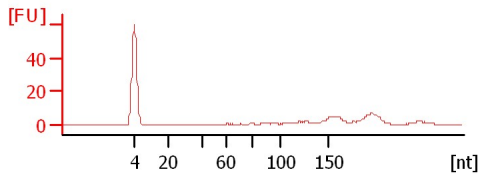
UCD 18-04 Fractions
33 % miRNA; Concentration: 28443.30 p...



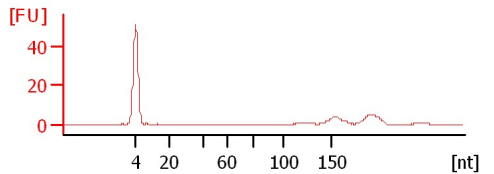
1007-06 WH Sort
42 % miRNA; Concentration: 6984.80 pg/µl



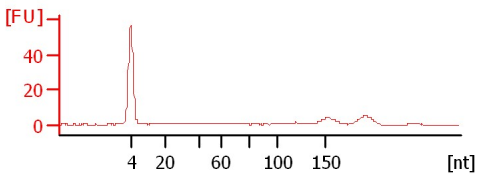
1052-08 WS Sort
20 % miRNA; Concentration: 127.70 pg/µl



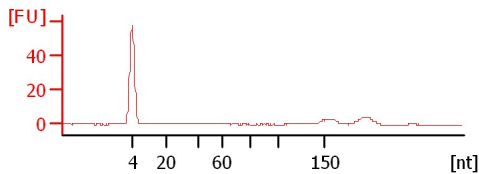
1015-05 RD Sort
11 % miRNA; Concentration: 27.80 pg/µl



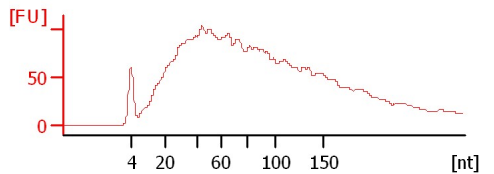
142-02 RO Sort
32 % miRNA; Concentration: 137.20 pg/µl



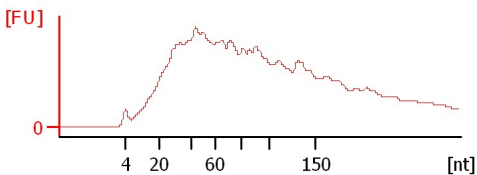
58-02 WD Sort
5 % miRNA; Concentration: 5.60 pg/µl



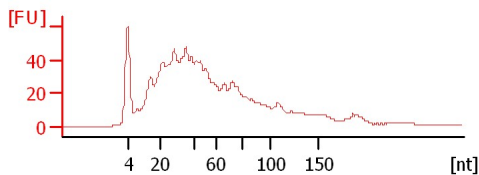
1007-06 WH Flow through
48 % miRNA; Concentration: 17665.80 p...



1052-08 WS Flow through
46 % miRNA; Concentration: 47795.30 p...















1015-05 RD Flow through
67 % miRNA; Concentration: 10676.80 p...



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
UCD 14-07 Fractions (1:2)		✓	75 % miRNA; Concentration: 64705.10 pg/μl	
UCD 17-13 Fractions (1:2)		✓	43 % miRNA; Concentration: 44711.50 pg/μl	
UCD 18-04 Fractions		✓	33 % miRNA; Concentration: 28443.30 pg/μl	
1007-06 WH Sort		✓	42 % miRNA; Concentration: 6984.80 pg/μl	
1052-08 WS Sort		✓	20 % miRNA; Concentration: 127.70 pg/μl	
1015-05 RD Sort		✓	11 % miRNA; Concentration: 27.80 pg/μl	
142-02 RO Sort		✓	32 % miRNA; Concentration: 137.20 pg/μl	
58-02 WD Sort		✓	5 % miRNA; Concentration: 5.60 pg/μl	
1007-06 WH Flow through		✓	48 % miRNA; Concentration: 17665.80 pg/μl	
1052-08 WS Flow through		✓	46 % miRNA; Concentration: 47795.30 pg/μl	
1015-05 RD Flow through		✓	67 % miRNA; Concentration: 10676.80 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/ 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

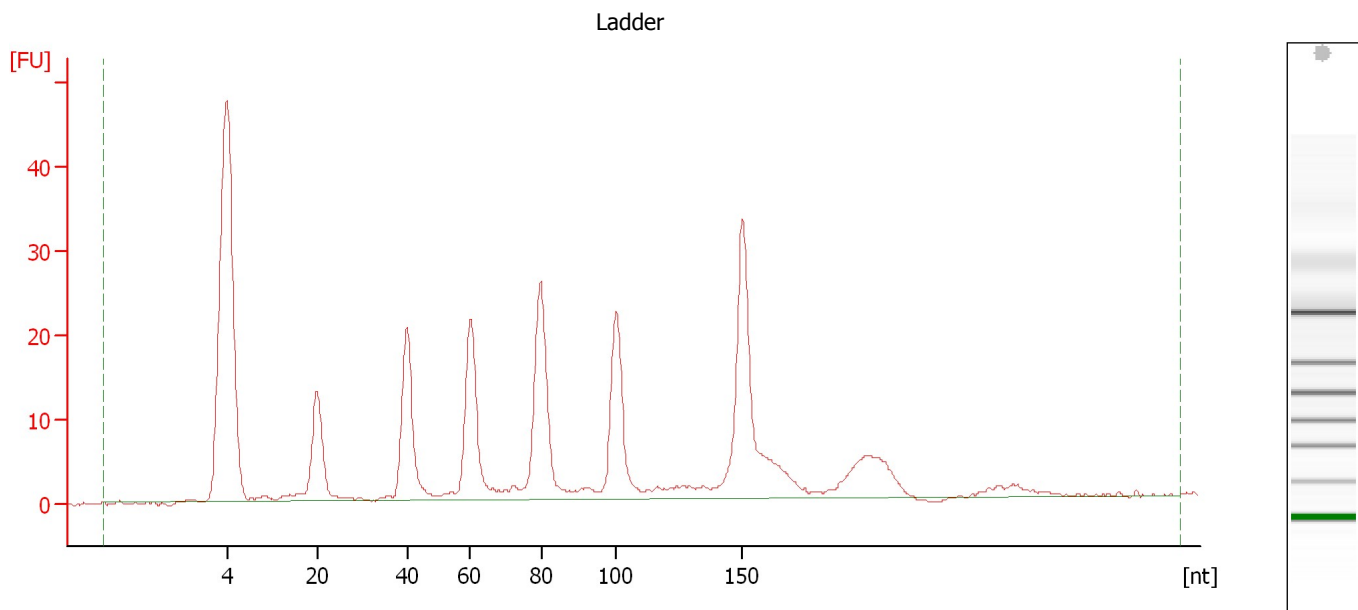
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Result Flagging Color:

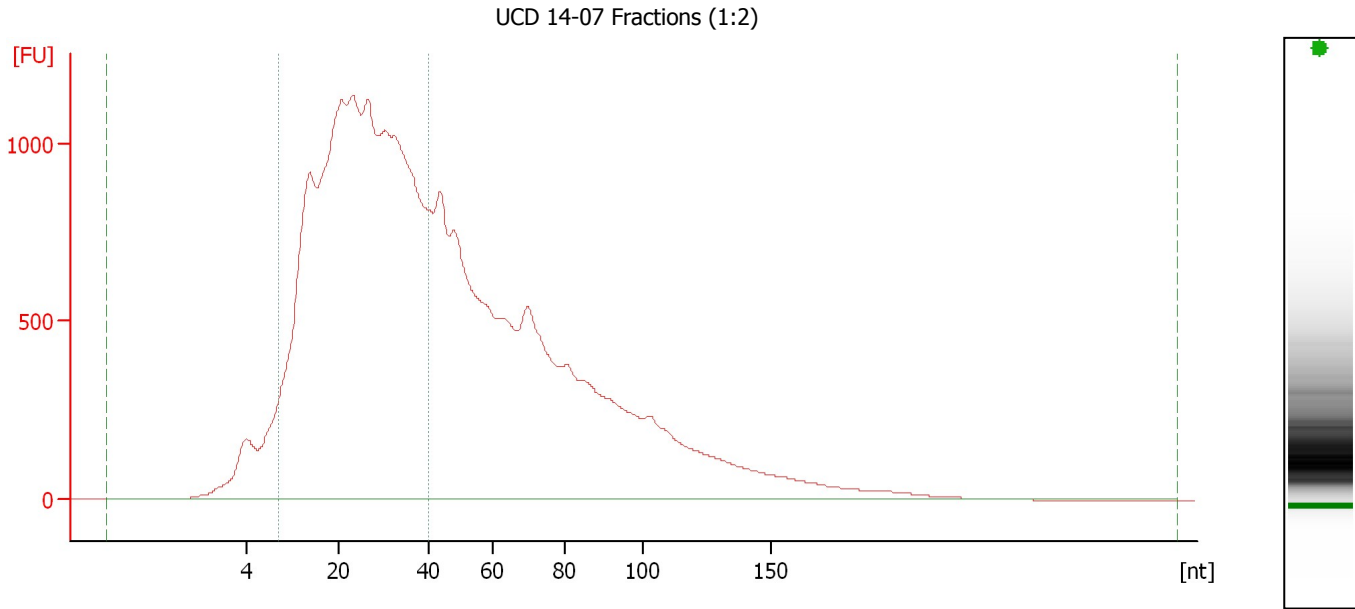
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA
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Electropherogram Summary Continued ...



Overall Results for sample 1 : UCD 14-07 Fractions (1:2)

Small RNA Concentration [pg/μl]:	85,750.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	64,705.1	Result Flagging Label:	75 % miRNA; Concentration: 64705.10 pg/μl
miRNA / Small RNA Ratio [%]:	75		

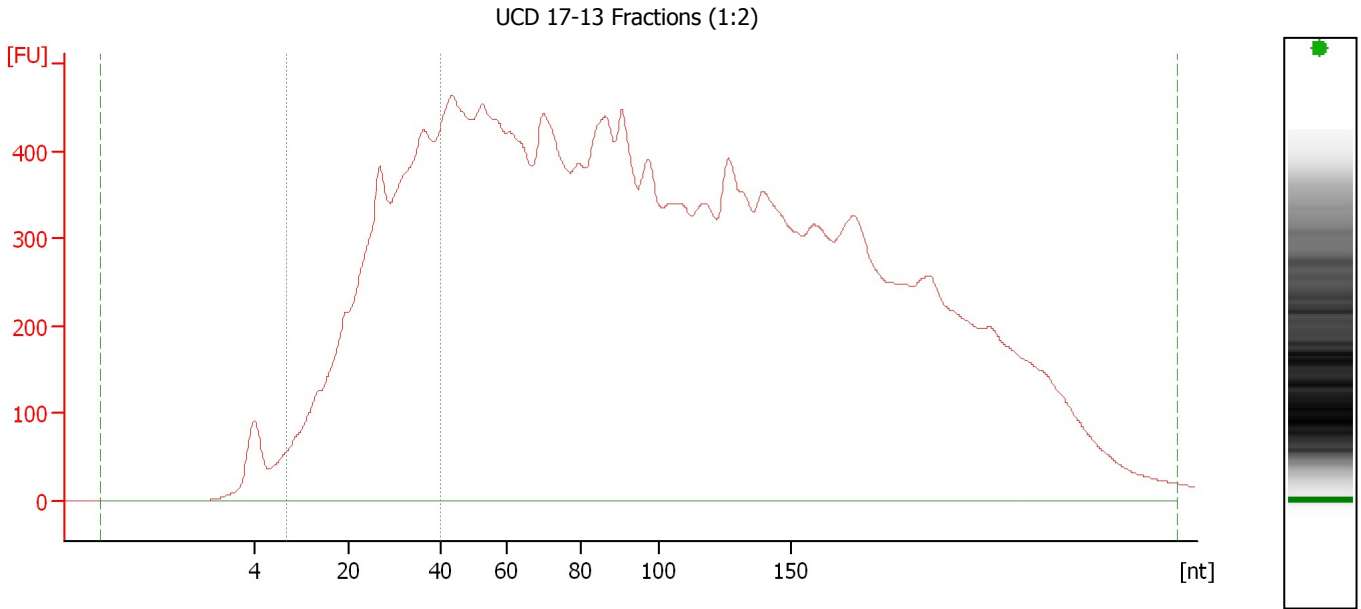
Region table for sample 1 : UCD 14-07 Fractions (1:2)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	308	48	73.2	85,750.1	100	
miRNA	10	40	25	32.3	64,705.1	75	

Assay Class: Small RNA
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Electropherogram Summary Continued ...



Overall Results for sample 2 : UCD 17-13 Fractions (1:2)

Small RNA Concentration [pg/μl]:	103,748.4	Result Flagging Color:	
miRNA Concentration [pg/μl]:	44,711.5	Result Flagging Label:	43 % miRNA; Concentration: 44711.50 pg/μl
miRNA / Small RNA Ratio [%]:	43		

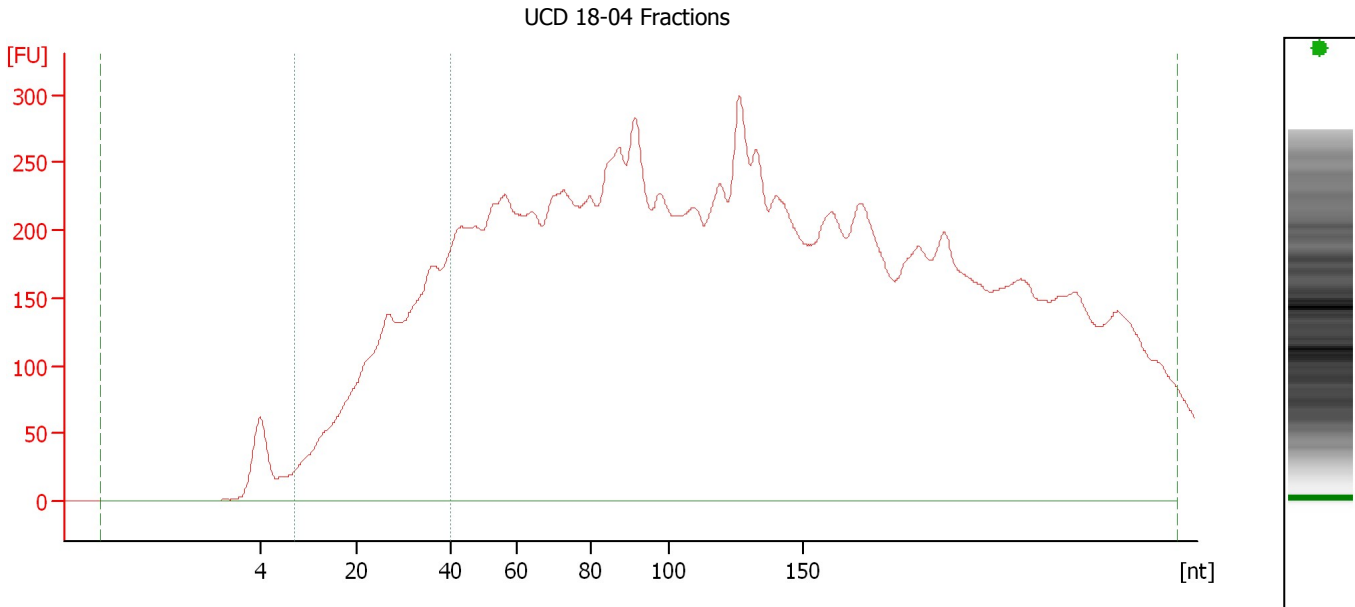
Region table for sample 2 : UCD 17-13 Fractions (1:2)

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	296	109	62.2	103,748.4	100	
miRNA	10	40	28	28.1	44,711.5	43	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-28\2018-09-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : UCD 18-04 Fractions

Small RNA Concentration [pg/μl]:	85,665.5	Result Flagging Color:	
miRNA Concentration [pg/μl]:	28,443.3	Result Flagging Label:	33 % miRNA; Concentration: 28443.30 pg/μl
miRNA / Small RNA Ratio [%]:	33		

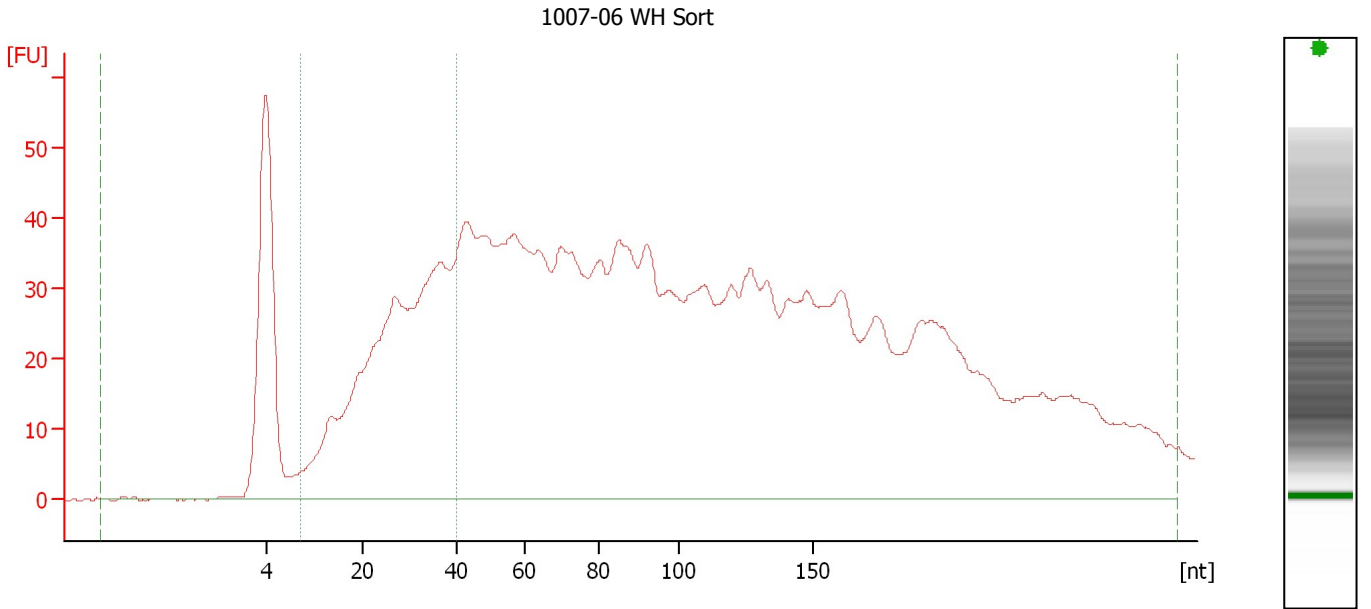
Region table for sample 3 : UCD 18-04 Fractions

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	291	131	57.2	85,665.5	100	
miRNA	10	40	28	28.6	28,443.3	33	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-28\2018-09-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 1007-06 WH Sort

Small RNA Concentration [pg/μl]:	16,761.4	Result Flagging Color:	
miRNA Concentration [pg/μl]:	6,984.8	Result Flagging Label:	42 % miRNA; Concentration: 6984.80 pg/μl
miRNA / Small RNA Ratio [%]:	42		

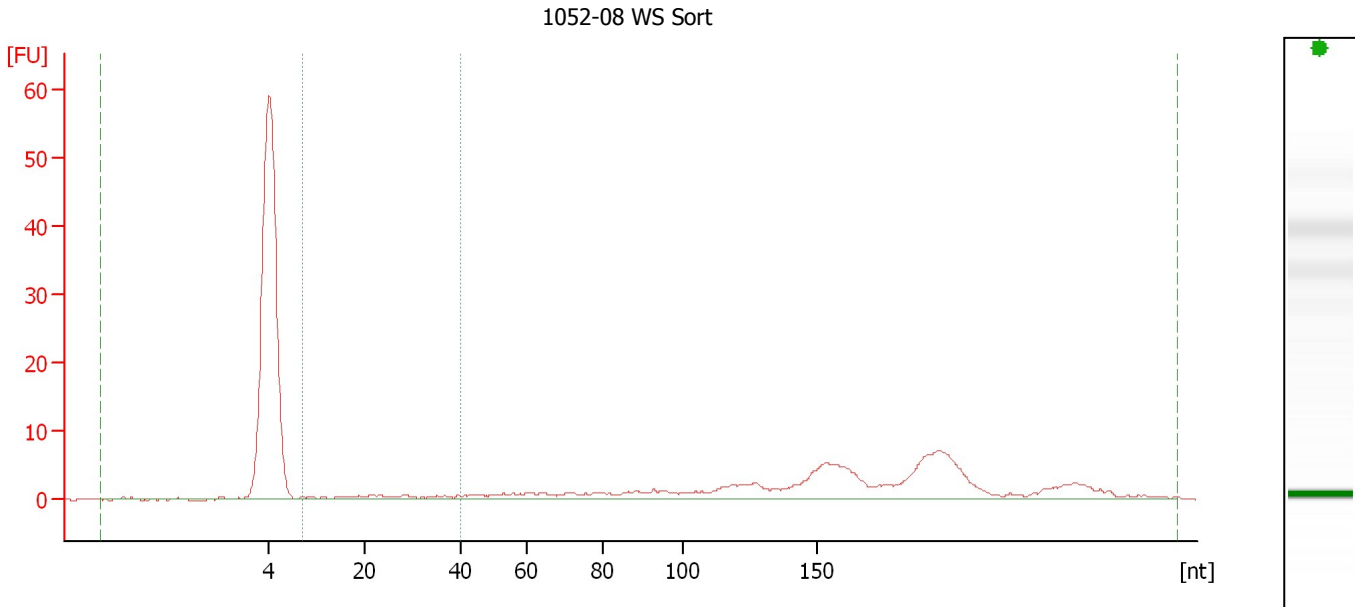
Region table for sample 4 : 1007-06 WH Sort

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	286	110	66.1	16,761.4	100	
miRNA	10	40	28	28.2	6,984.8	42	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-28\2018-09-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 1052-08 WS Sort

Small RNA Concentration [pg/μl]:	647.2	Result Flagging Color:	
miRNA Concentration [pg/μl]:	127.7	Result Flagging Label:	20 % miRNA; Concentration: 127.70 pg/μl
miRNA / Small RNA Ratio [%]:	20		

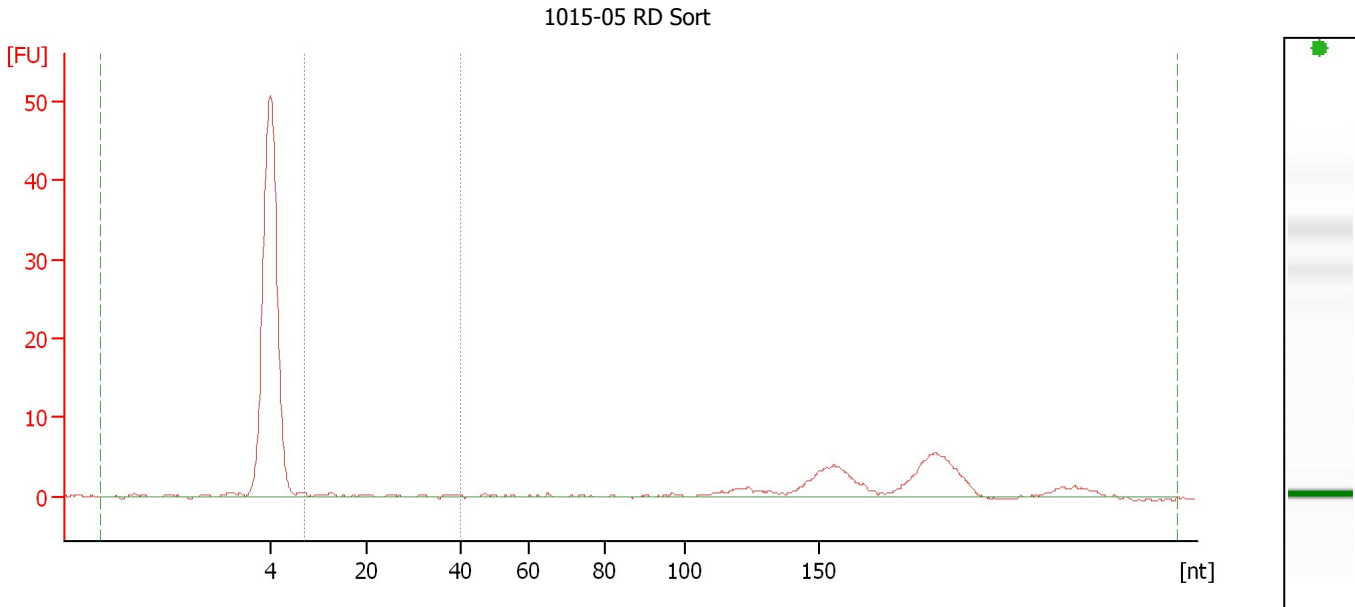
Region table for sample 5 : 1052-08 WS Sort

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	284	93	95.3	647.2	100	
miRNA	10	40	25	34.9	127.7	20	

Assay Class: Small RNA
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Electropherogram Summary Continued ...



Overall Results for sample 6 : 1015-05 RD Sort

Small RNA Concentration [pg/μl]:	262.2	Result Flagging Color:	
miRNA Concentration [pg/μl]:	27.8	Result Flagging Label:	11 % miRNA; Concentration: 27.80 pg/μl
miRNA / Small RNA Ratio [%]:	11		

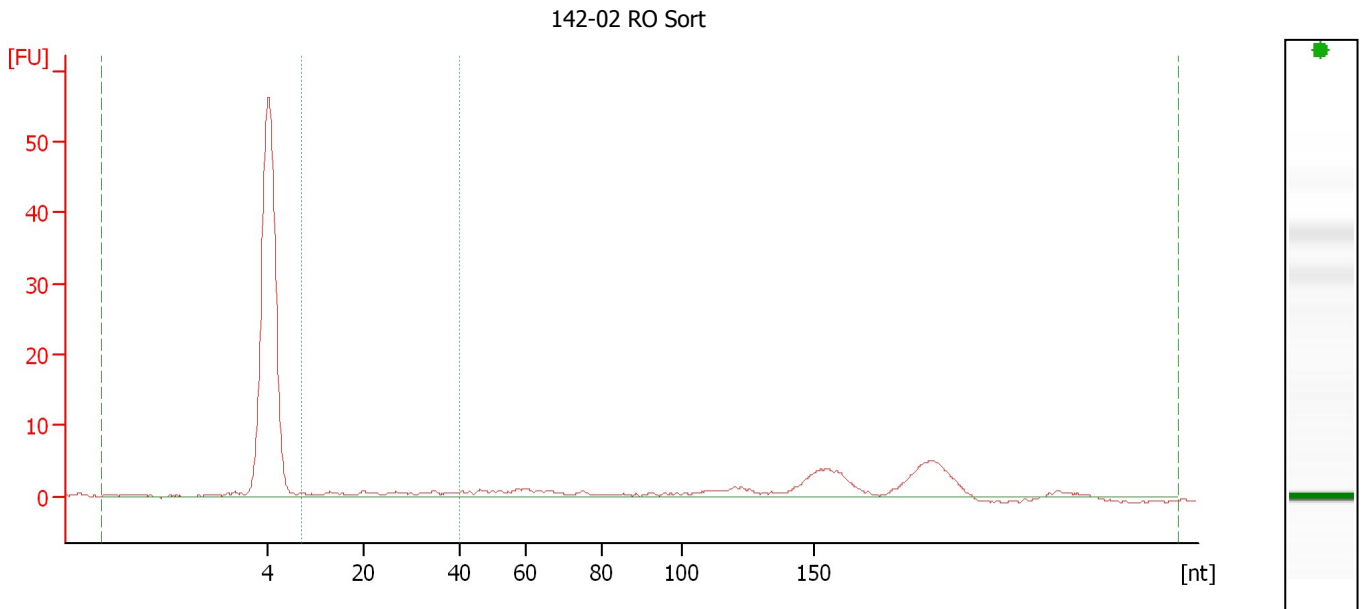
Region table for sample 6 : 1015-05 RD Sort

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	283	72	100.0	262.2	100	
miRNA	10	40	21	46.2	27.8	11	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-28\2018-09-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 142-02 RO Sort

Small RNA Concentration [pg/μl]:	431.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	137.2	Result Flagging Label:	32 % miRNA; Concentration: 137.20 pg/μl
miRNA / Small RNA Ratio [%]:	32		

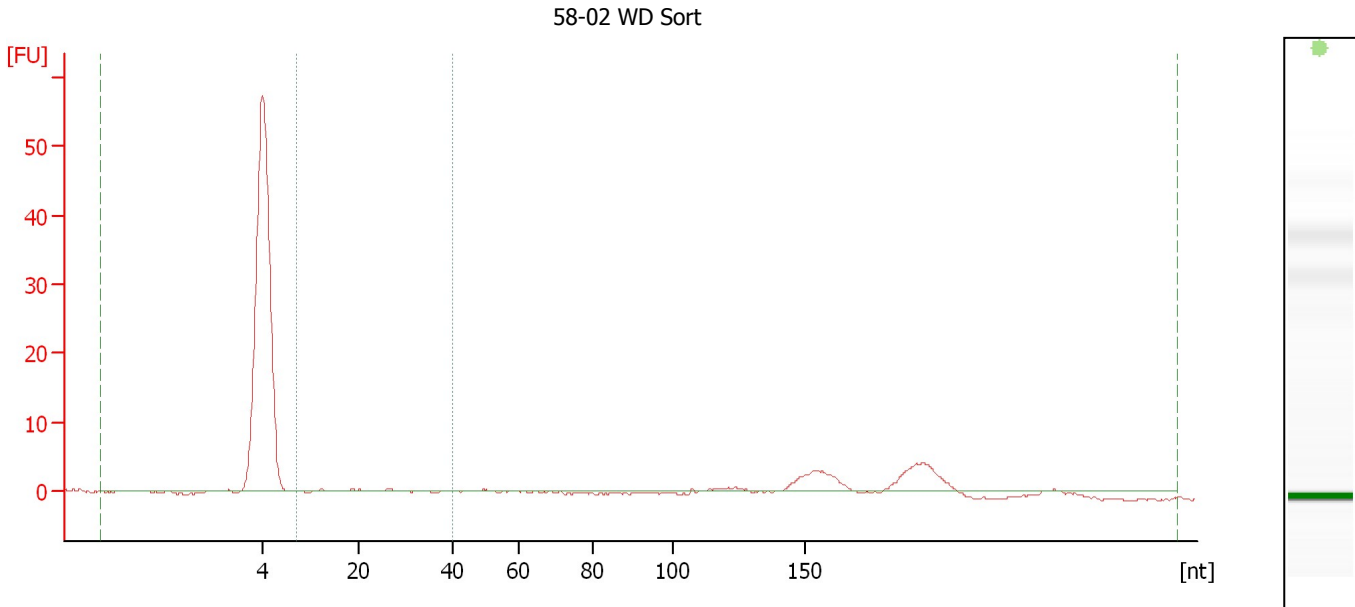
Region table for sample 7 : 142-02 RO Sort

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	285	61	100.0	431.1	100	
miRNA	10	40	25	34.8	137.2	32	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-28\2018-09-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 58-02 WD Sort

Small RNA Concentration [pg/μl]:	105.4	Result Flagging Color:	
miRNA Concentration [pg/μl]:	5.6	Result Flagging Label:	5 % miRNA; Concentration: 5.60 pg/μl
miRNA / Small RNA Ratio [%]:	5		

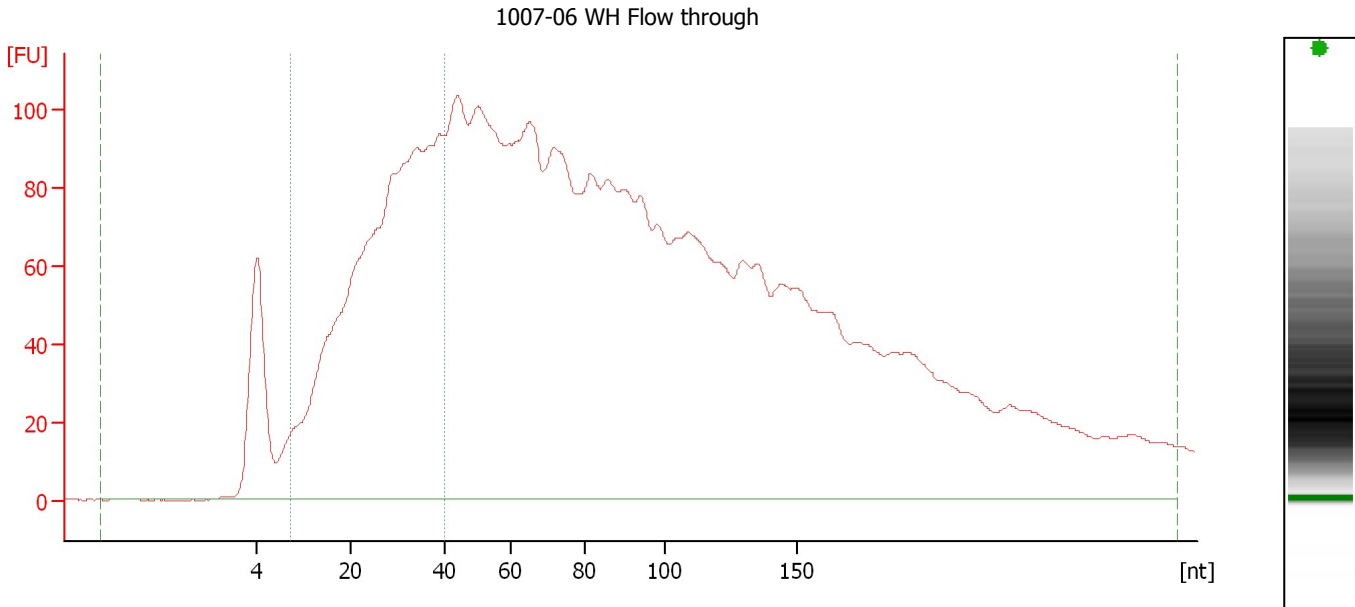
Region table for sample 8 : 58-02 WD Sort

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	289	43	100.0	105.4	100	
miRNA	10	40	20	24.7	5.6	5	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-28\2018-09-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 1007-06 WH Flow through

Small RNA Concentration [pg/μl]:	36,737.2	Result Flagging Color:	
miRNA Concentration [pg/μl]:	17,665.9	Result Flagging Label:	48 % miRNA; Concentration: 17665.80 pg/μl
miRNA / Small RNA Ratio [%]:	48		

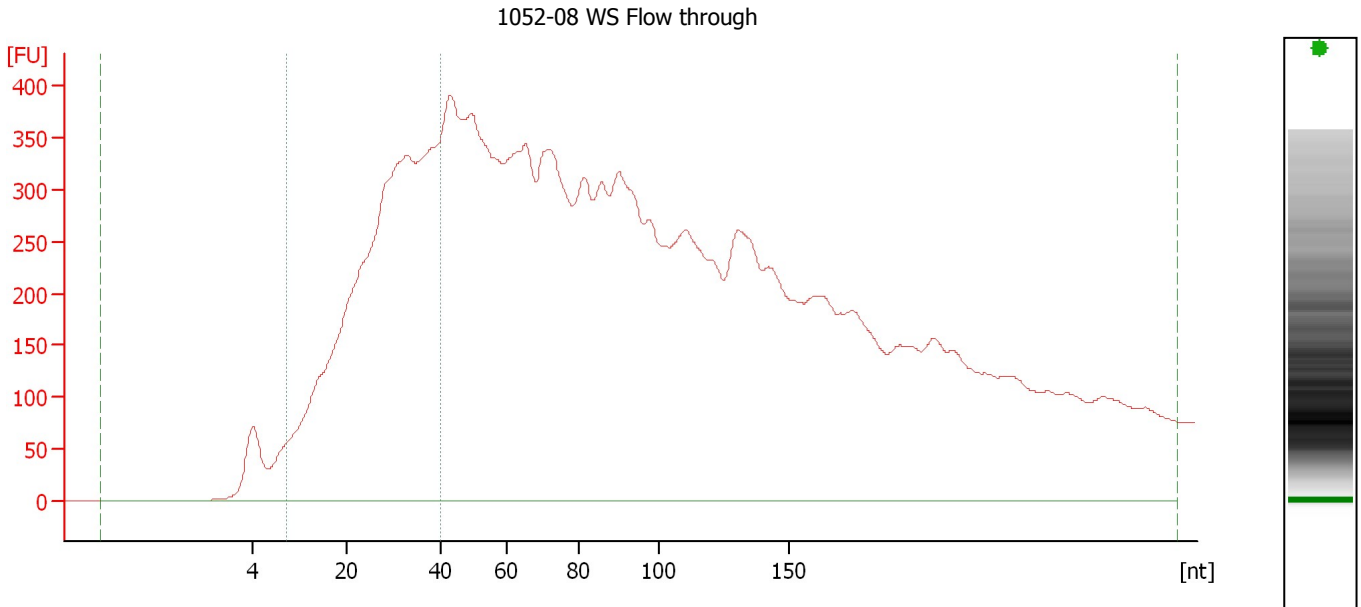
Region table for sample 9 : 1007-06 WH Flow through

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	294	98	69.8	36,737.2	100	
miRNA	10	40	27	29.6	17,665.8	48	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-28\2018-09-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : 1052-08 WS Flow through

Small RNA Concentration [pg/μl]:	103,844.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	47,795.3	Result Flagging Label:	46 % miRNA; Concentration: 47795.30 pg/μl
miRNA / Small RNA Ratio [%]:	46		

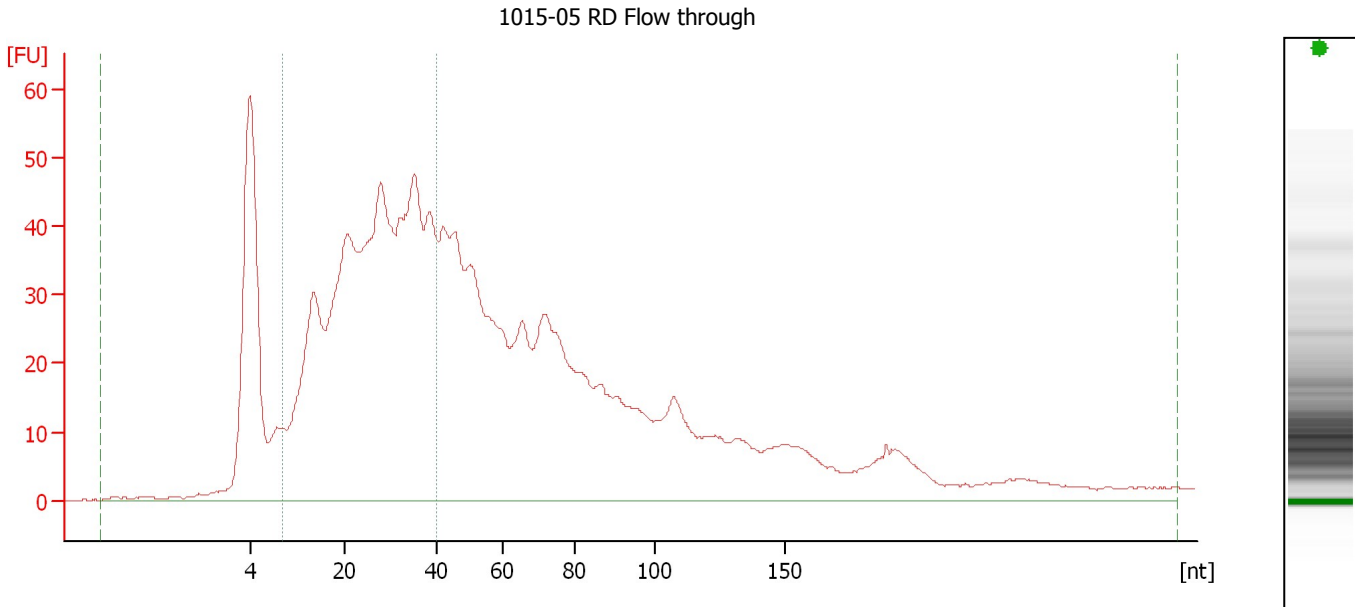
Region table for sample 10 : 1052-08 WS Flow through

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	297	109	67.7	103,844.1	100	
miRNA	10	40	28	28.6	47,795.3	46	

Assay Class: Small RNA
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Electropherogram Summary Continued ...



Overall Results for sample 11 : 1015-05 RD Flow through

Small RNA Concentration [pg/μl]:	15,819.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	10,676.8	Result Flagging Label:	67 % miRNA; Concentration: 10676.80 pg/μl
miRNA / Small RNA Ratio [%]:	67		

Region table for sample 11 : 1015-05 RD Flow through

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	299	65	90.4	15,819.1	100	
miRNA	10	40	26	31.4	10,676.8	67	

Assay Class: Small RNA
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