

Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-06\2017-11-06_001.xad

Created: 11/6/2017 3:11:03 PM
Modified: 11/6/2017 3:43:01 PM

Electrophoresis File Run Summary

Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

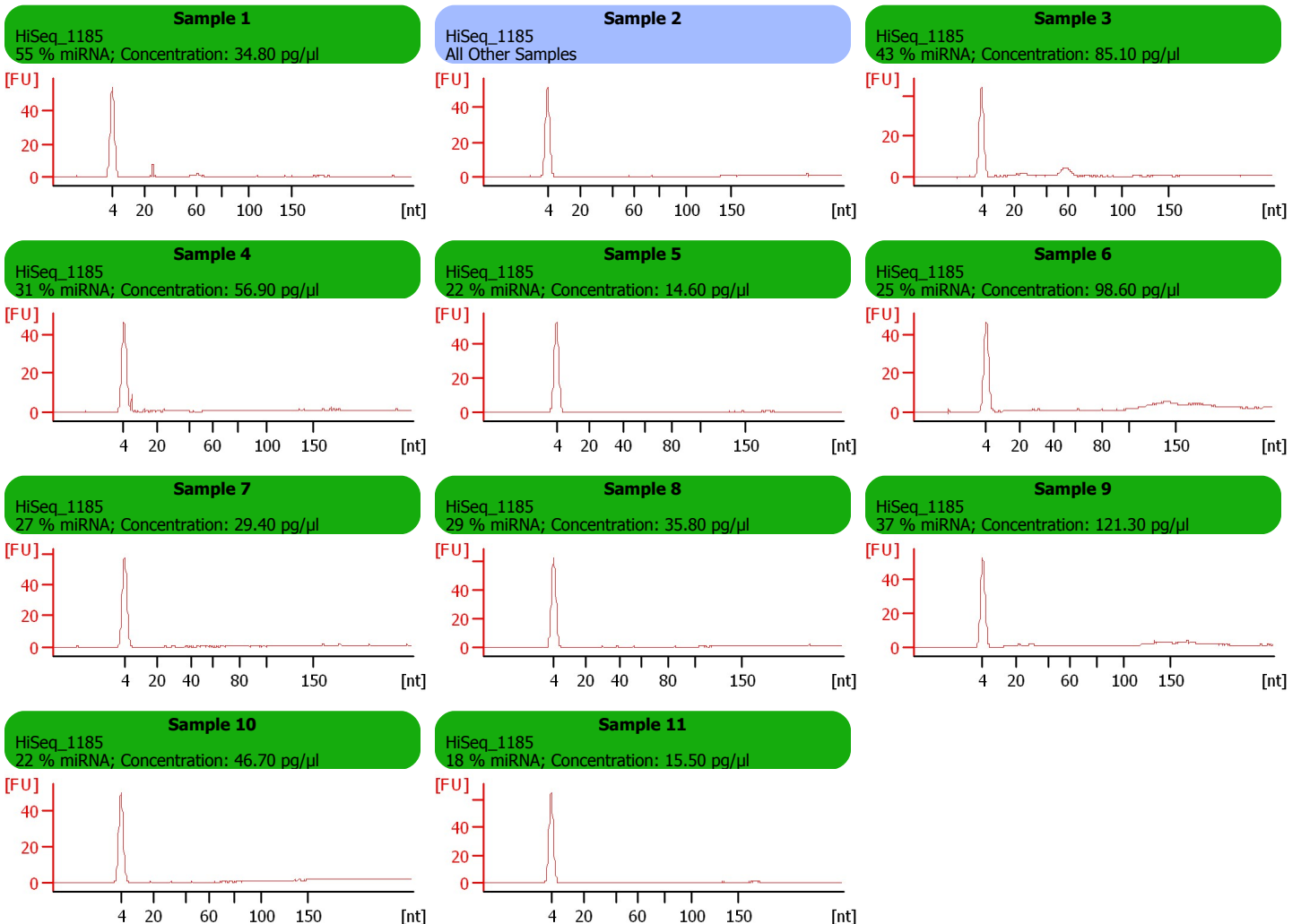
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Small RNA Series II.xsy

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:



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 Modified: 11/6/2017 3:43:01 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1	HiSeq_1185	✓	55 % miRNA; Concentration: 34.80 pg/μl	
Sample 2	HiSeq_1185	✓	All Other Samples	
Sample 3	HiSeq_1185	✓	43 % miRNA; Concentration: 85.10 pg/μl	
Sample 4	HiSeq_1185	✓	31 % miRNA; Concentration: 56.90 pg/μl	
Sample 5	HiSeq_1185	✓	22 % miRNA; Concentration: 14.60 pg/μl	
Sample 6	HiSeq_1185	✓	25 % miRNA; Concentration: 98.60 pg/μl	
Sample 7	HiSeq_1185	✓	27 % miRNA; Concentration: 29.40 pg/μl	
Sample 8	HiSeq_1185	✓	29 % miRNA; Concentration: 35.80 pg/μl	
Sample 9	HiSeq_1185	✓	37 % miRNA; Concentration: 121.30 pg/μl	
Sample 10	HiSeq_1185	✓	22 % miRNA; Concentration: 46.70 pg/μl	
Sample 11	HiSeq_1185	✓	18 % miRNA; Concentration: 15.50 pg/μl	
Ladder		✓	Number of Peaks: 6	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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Modified: 11/6/2017 3:43:01 PM

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

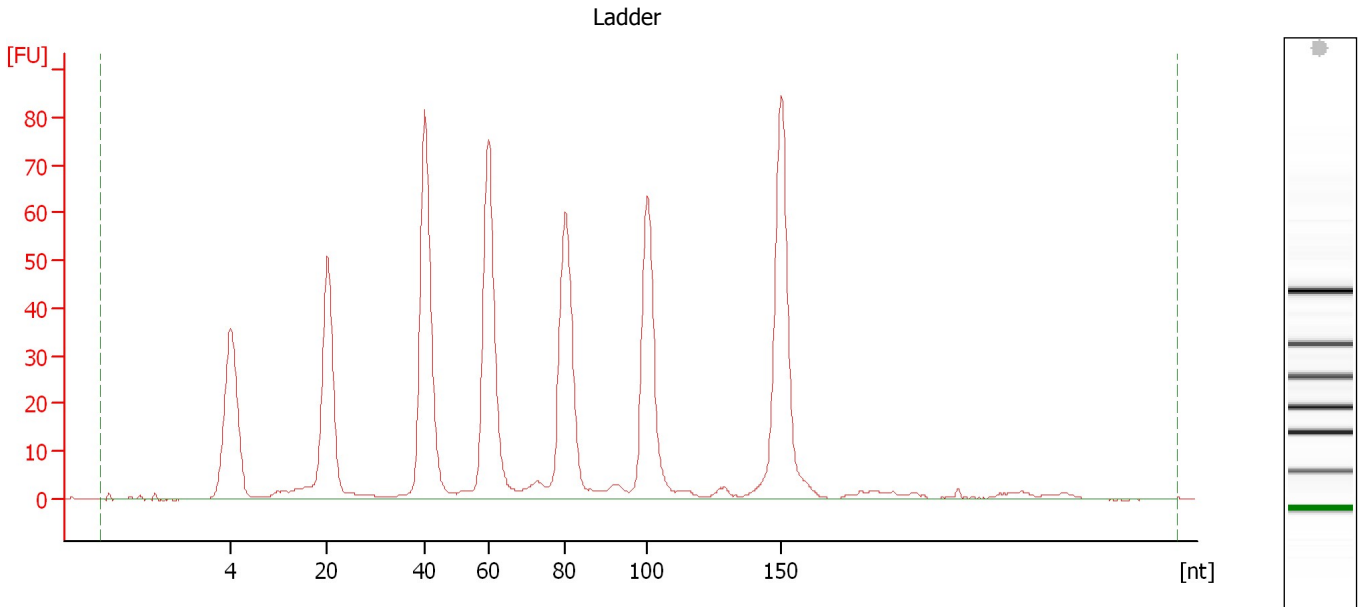
Ladder

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

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Modified: 11/6/2017 3:43:01 PM

Electropherogram Summary



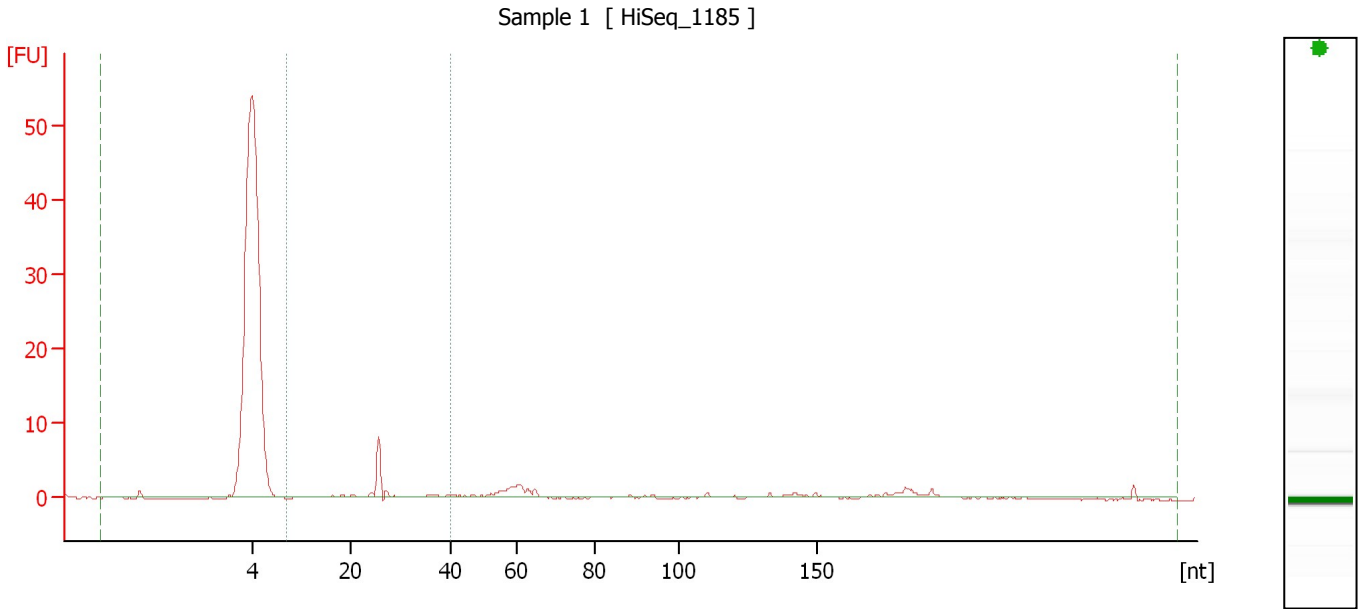
Overall Results for Ladder

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

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Created: 11/6/2017 3:11:03 PM
 Modified: 11/6/2017 3:43:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

Small RNA Concentration [pg/μl]:	63.0	Result Flagging Color:	
miRNA Concentration [pg/μl]:	34.8	Result Flagging Label:	55 % miRNA; Concentration: 34.80 pg/μl
miRNA / Small RNA Ratio [%]:	55		

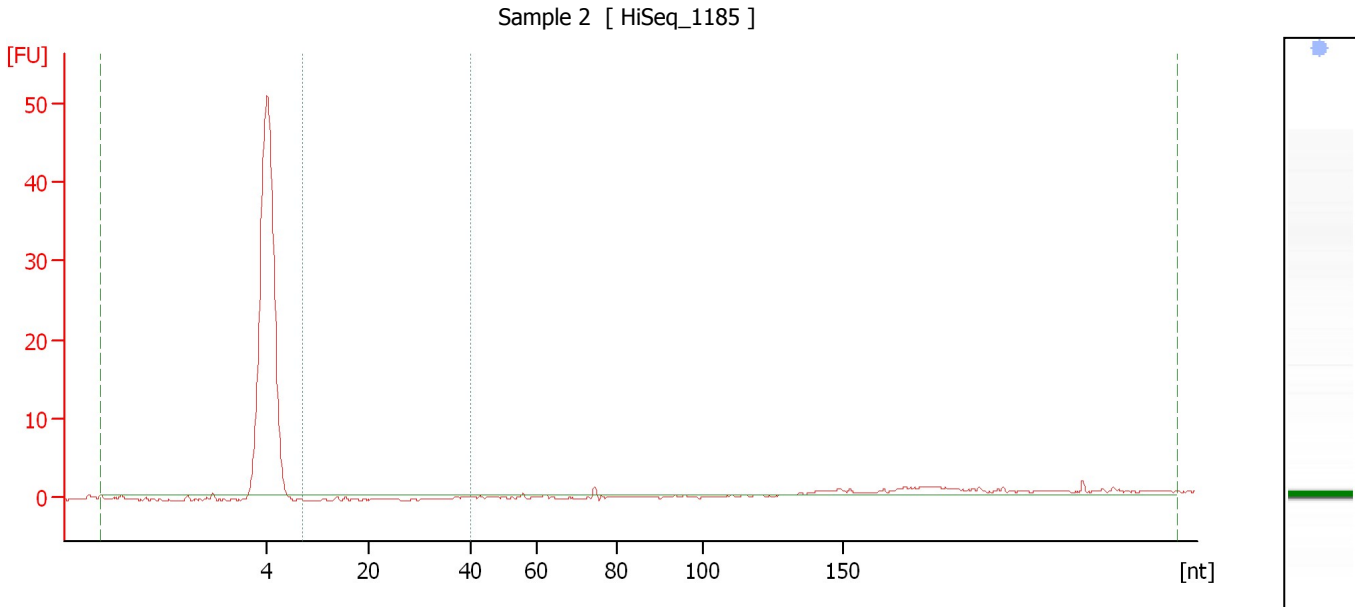
Region table for sample 1 : Sample 1

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	280	21	100.0	63.0	100	
miRNA	10	40	26	22.1	34.8	55	

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Created: 11/6/2017 3:11:03 PM
 Modified: 11/6/2017 3:43:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

Small RNA Concentration [pg/μl]:	25.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	0.0	Result Flagging Label:	All Other Samples
miRNA / Small RNA Ratio [%]:	0		

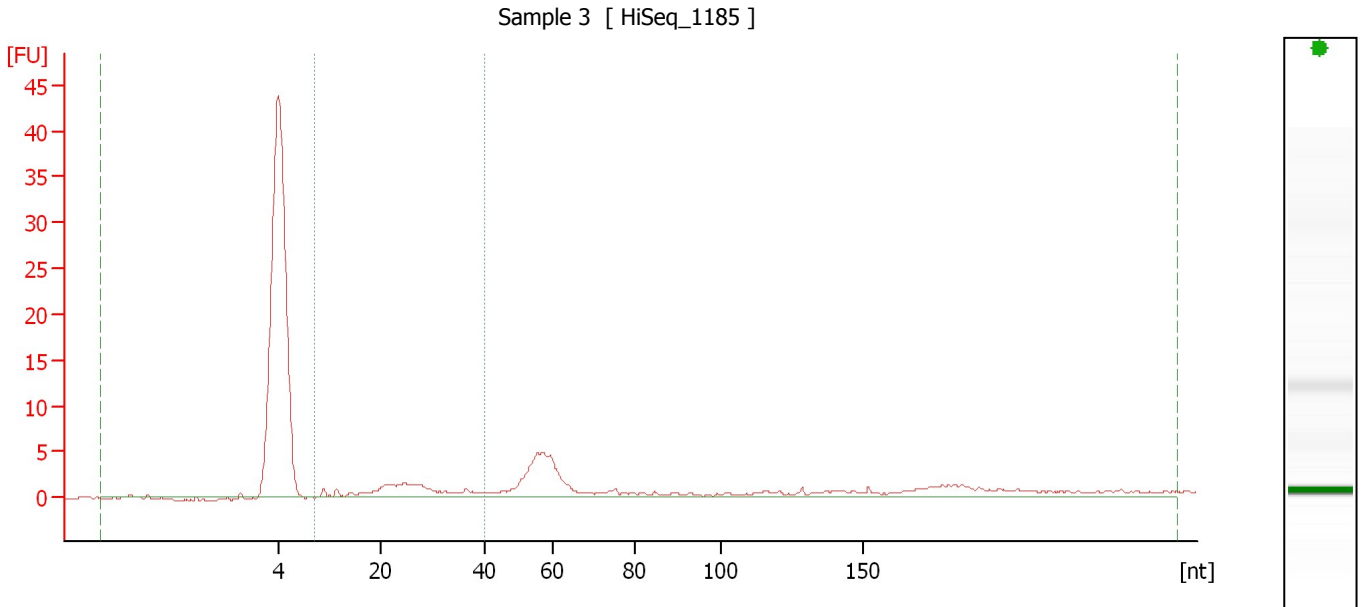
Region table for sample 2 : Sample 2

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	268	46	100.0	25.1	100	
miRNA	10	40	0	0.0	0.0	0	

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Created: 11/6/2017 3:11:03 PM
 Modified: 11/6/2017 3:43:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

Small RNA Concentration [pg/μl]:	199.2	Result Flagging Color:	
miRNA Concentration [pg/μl]:	85.1	Result Flagging Label:	43 % miRNA; Concentration: 85.10 pg/μl
miRNA / Small RNA Ratio [%]:	43		

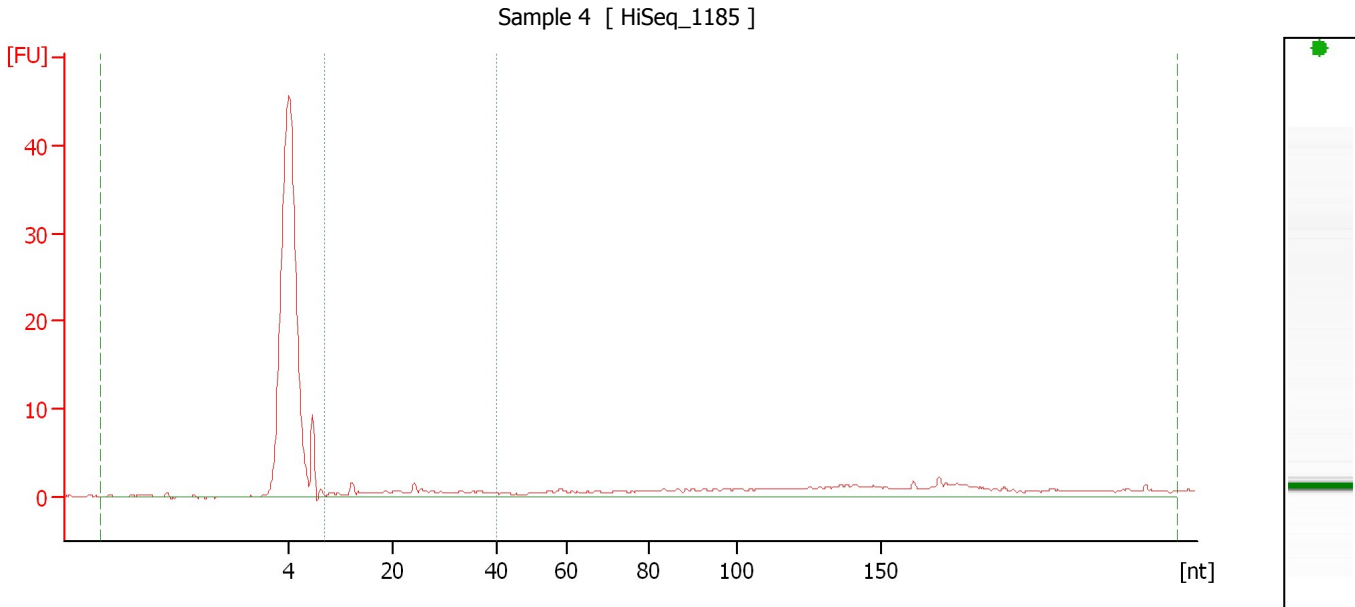
Region table for sample 3 : Sample 3

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	260	56	100.0	199.2	100	
miRNA	10	40	25	28.9	85.1	43	

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Created: 11/6/2017 3:11:03 PM
 Modified: 11/6/2017 3:43:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

Small RNA Concentration [pg/μl]:	186.3	Result Flagging Color:	
miRNA Concentration [pg/μl]:	56.9	Result Flagging Label:	31 % miRNA; Concentration: 56.90 pg/μl
miRNA / Small RNA Ratio [%]:	31		

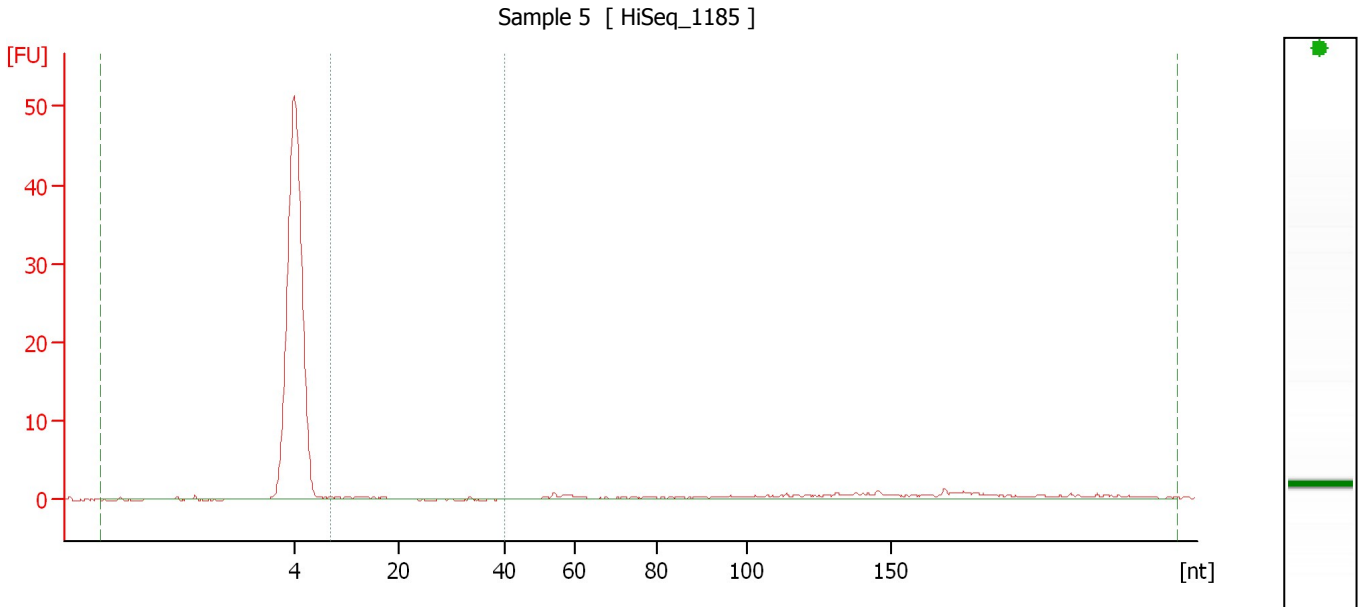
Region table for sample 4 : Sample 4

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	252	58	100.0	186.3	100	
miRNA	10	40	25	34.3	56.9	31	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-06\2017-11-06_001.xad

Created: 11/6/2017 3:11:03 PM
 Modified: 11/6/2017 3:43:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

Small RNA Concentration [pg/μl]:	67.7	Result Flagging Color:	
miRNA Concentration [pg/μl]:	14.6	Result Flagging Label:	22 % miRNA; Concentration: 14.60 pg/μl
miRNA / Small RNA Ratio [%]:	22		

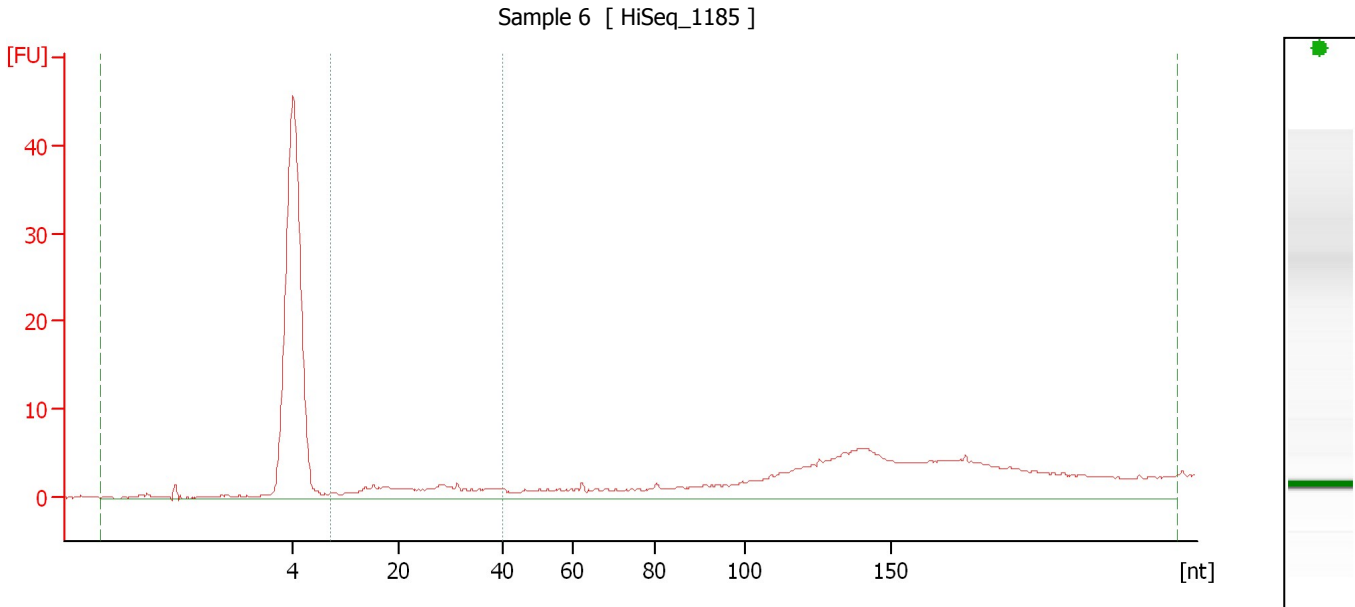
Region table for sample 5 : Sample 5

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	248	40	100.0	67.7	100	
miRNA	10	40	18	41.1	14.6	22	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-06\2017-11-06_001.xad

Created: 11/6/2017 3:11:03 PM
 Modified: 11/6/2017 3:43:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

Small RNA Concentration [pg/μl]:	388.9	Result Flagging Color:	
miRNA Concentration [pg/μl]:	98.6	Result Flagging Label:	25 % miRNA; Concentration: 98.60 pg/μl
miRNA / Small RNA Ratio [%]:	25		

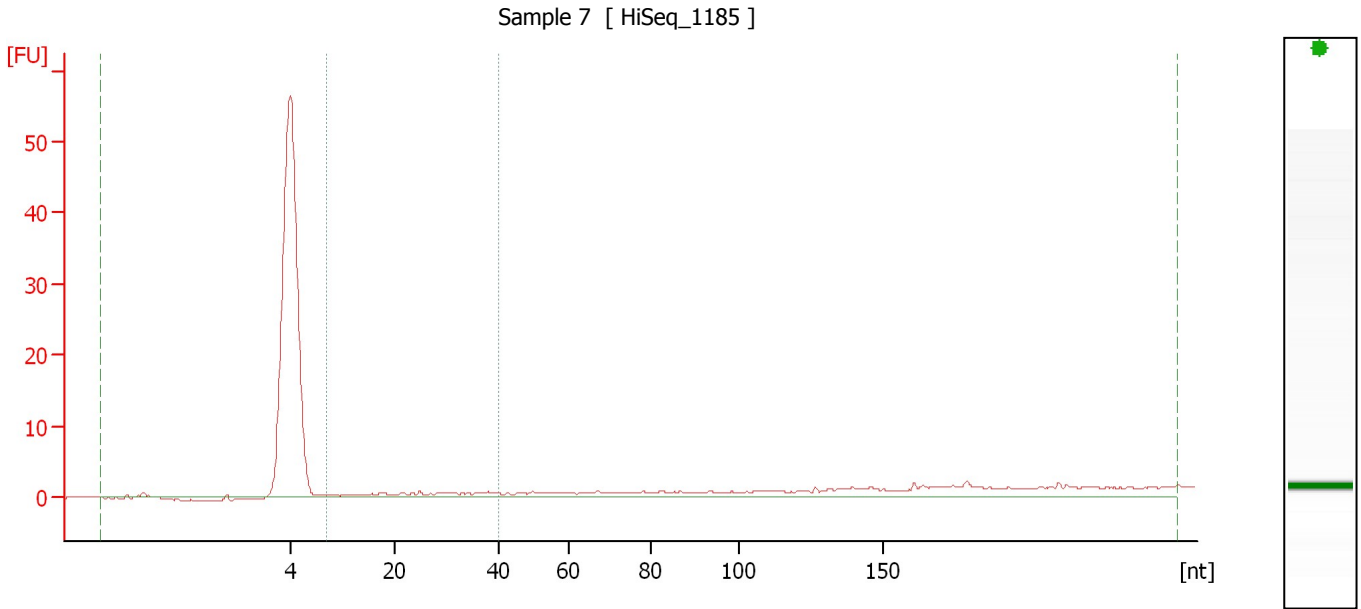
Region table for sample 6 : Sample 6

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	249	100	81.0	388.9	100	
miRNA	10	40	25	33.4	98.6	25	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-06\2017-11-06_001.xad

Created: 11/6/2017 3:11:03 PM
 Modified: 11/6/2017 3:43:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

Small RNA Concentration [pg/μl]:	110.5	Result Flagging Color:	
miRNA Concentration [pg/μl]:	29.4	Result Flagging Label:	27 % miRNA; Concentration: 29.40 pg/μl
miRNA / Small RNA Ratio [%]:	27		

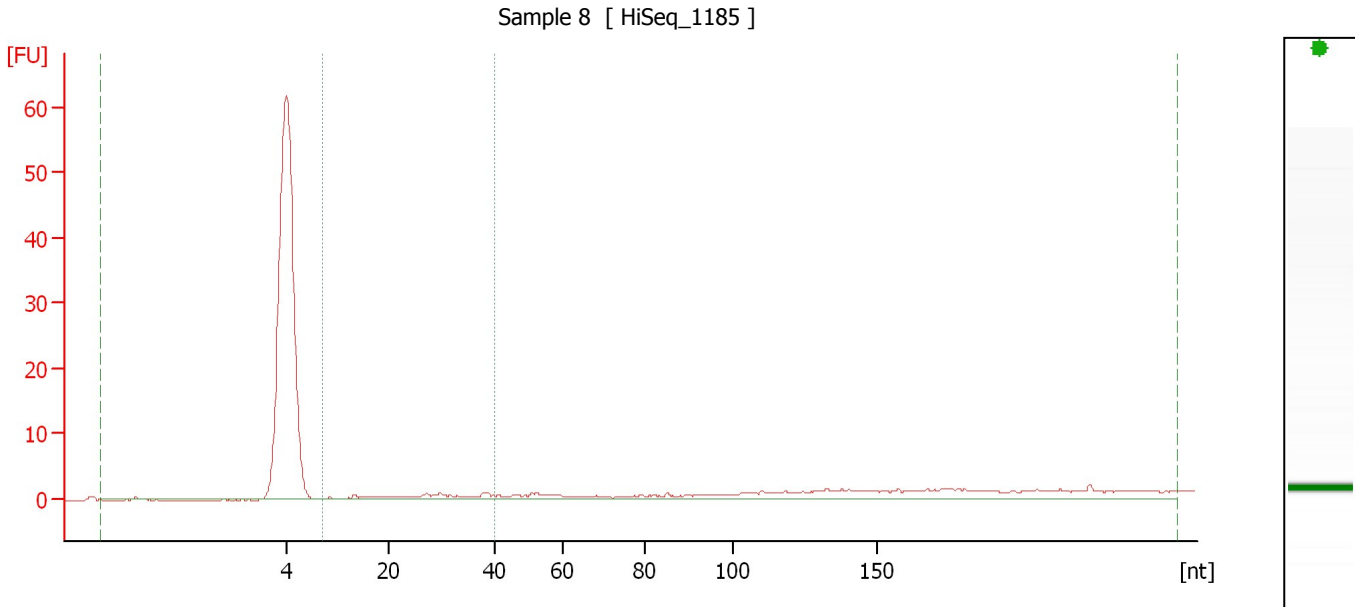
Region table for sample 7 : Sample 7

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	251	64	100.0	110.5	100	
miRNA	10	40	26	31.9	29.4	27	

Assay Class: Small RNA
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Created: 11/6/2017 3:11:03 PM
 Modified: 11/6/2017 3:43:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

Small RNA Concentration [pg/μl]:	121.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	35.8	Result Flagging Label:	29 % miRNA; Concentration: 35.80 pg/μl
miRNA / Small RNA Ratio [%]:	29		

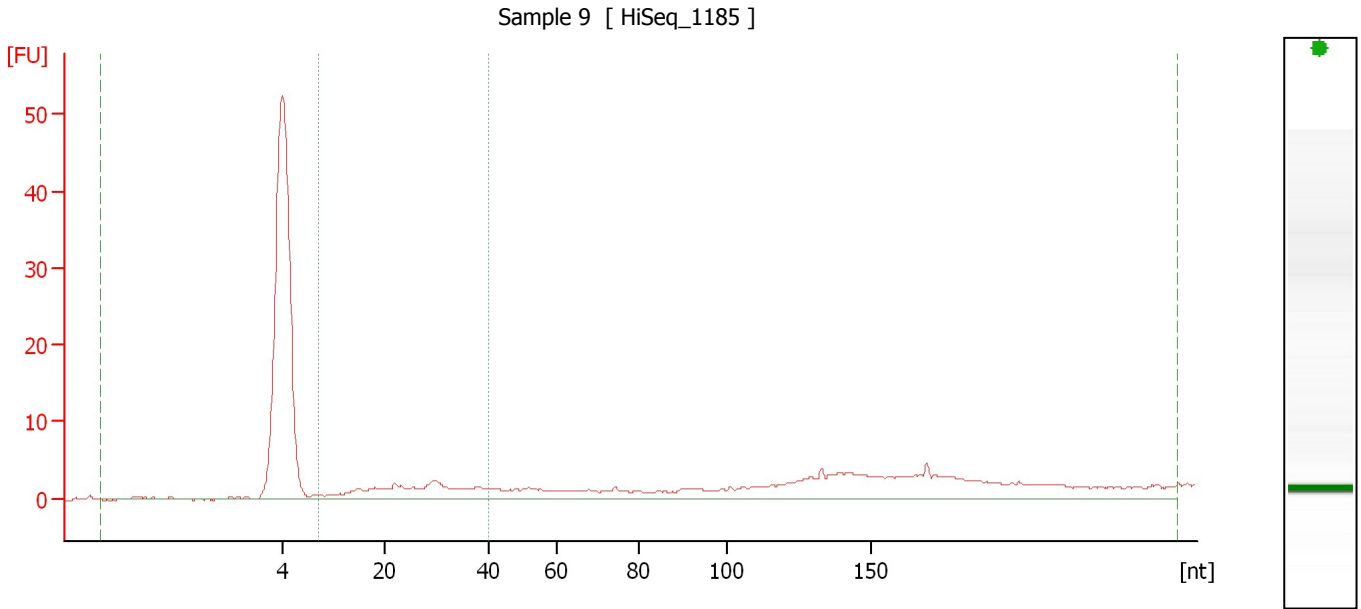
Region table for sample 8 : Sample 8

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	254	64	100.0	121.6	100	
miRNA	10	40	27	31.1	35.8	29	

Assay Class: Small RNA
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Created: 11/6/2017 3:11:03 PM
 Modified: 11/6/2017 3:43:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

Small RNA Concentration [pg/μl]:	326.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	121.3	Result Flagging Label:	37 % miRNA; Concentration: 121.30 pg/μl
miRNA / Small RNA Ratio [%]:	37		

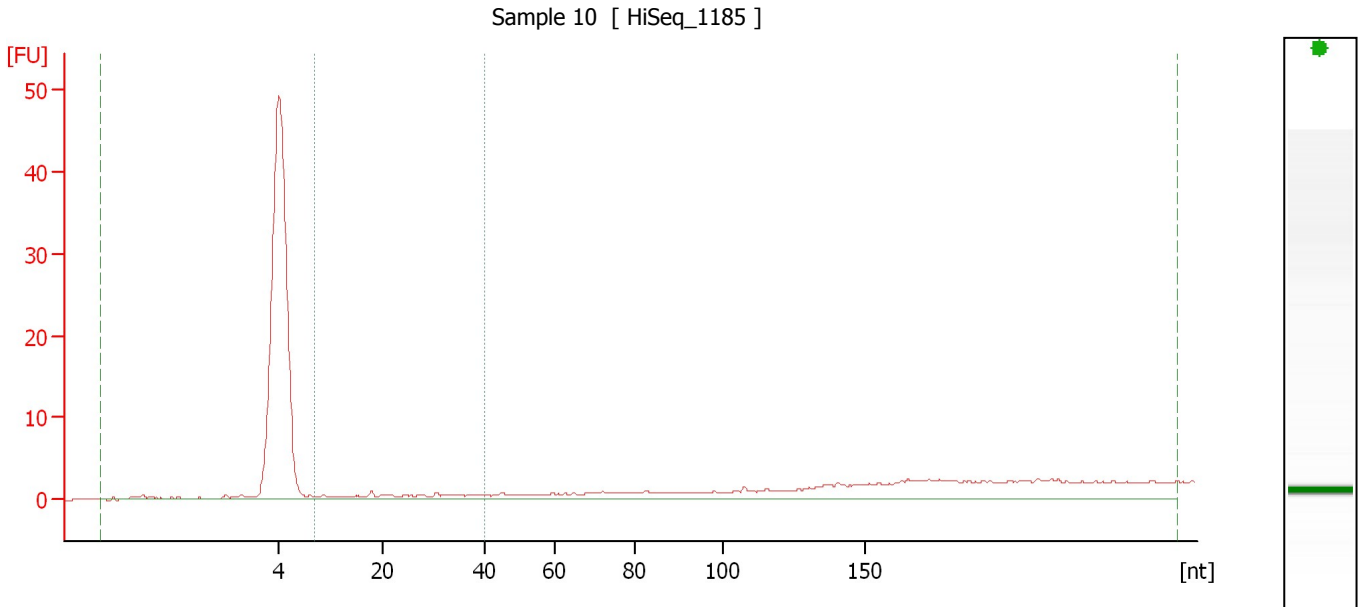
Region table for sample 9 : Sample 9

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	257	84	97.6	326.1	100	
miRNA	10	40	26	31.5	121.3	37	

Assay Class: Small RNA
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Created: 11/6/2017 3:11:03 PM
 Modified: 11/6/2017 3:43:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

Small RNA Concentration [pg/μl]:	216.7	Result Flagging Color:	
miRNA Concentration [pg/μl]:	46.7	Result Flagging Label:	22 % miRNA; Concentration: 46.70 pg/μl
miRNA / Small RNA Ratio [%]:	22		

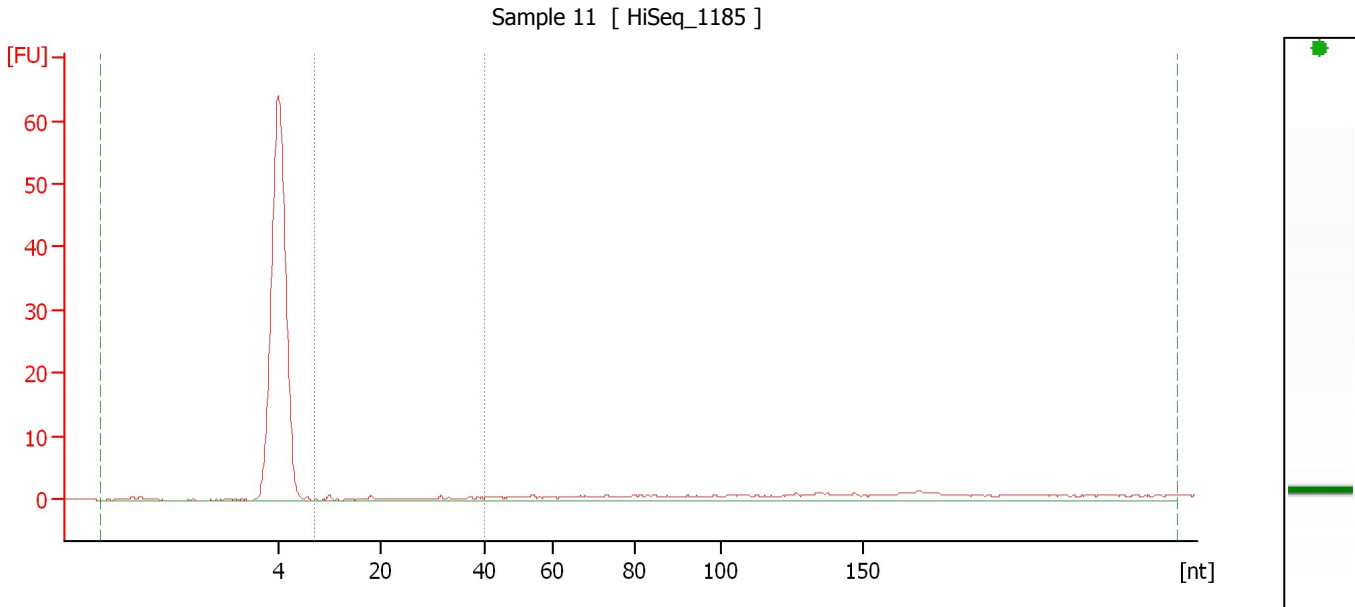
Region table for sample 10 : Sample 10

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	259	90	100.0	216.7	100	
miRNA	10	40	25	35.4	46.7	22	

Assay Class: Small RNA
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Created: 11/6/2017 3:11:03 PM
 Modified: 11/6/2017 3:43:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

Small RNA Concentration [pg/μl]:	85.2	Result Flagging Color:	
miRNA Concentration [pg/μl]:	15.5	Result Flagging Label:	18 % miRNA; Concentration: 15.50 pg/μl
miRNA / Small RNA Ratio [%]:	18		

Region table for sample 11 : Sample 11

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	260	50	100.0	85.2	100	
miRNA	10	40	26	34.5	15.5	18	

Assay Class: Small RNA
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Created: 11/6/2017 3:11:03 PM
Modified: 11/6/2017 3:43:01 PM

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