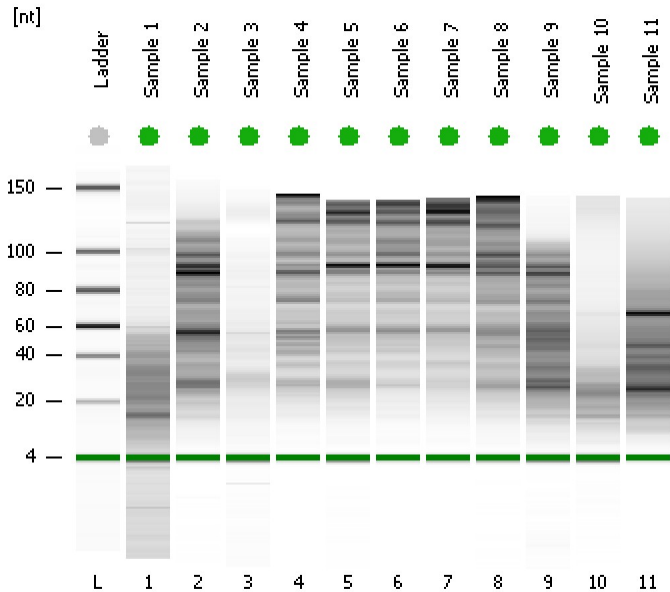


Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
Modified: 12/2/2013 2:51:46 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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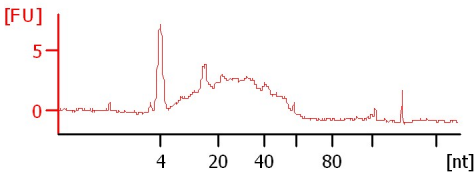
Chip Information:

Chip Lot #:

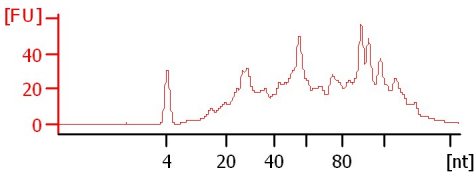
Reagent Kit Lot #:

Chip Comments:

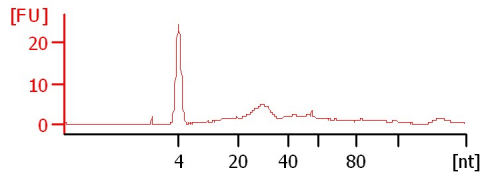
Sample 1
91 % miRNA; Concentration: 4124.20 pg/µl



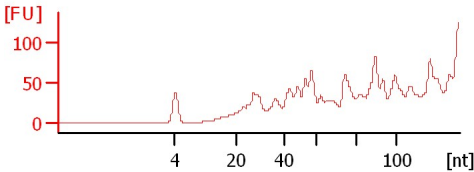
Sample 2
56 % miRNA; Concentration: 5667.80 pg/µl



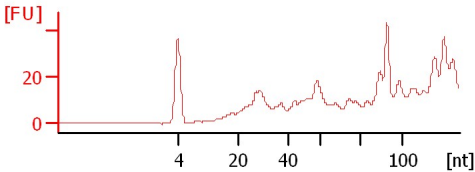
Sample 3
78 % miRNA; Concentration: 1040.90 pg/µl



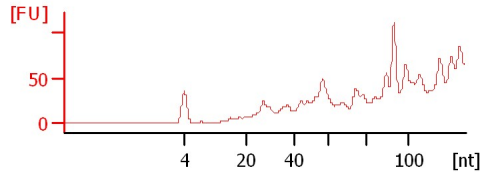
Sample 4
43 % miRNA; Concentration: 4751.30 pg/µl



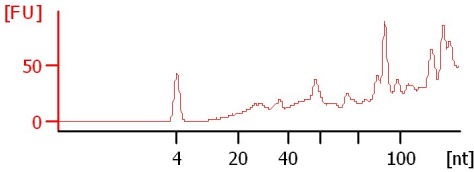
Sample 5
46 % miRNA; Concentration: 1915.60 pg/µl



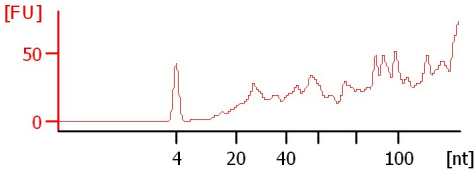
Sample 6
35 % miRNA; Concentration: 3203 pg/µl



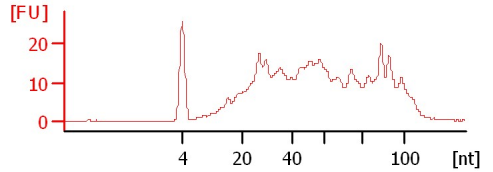
Sample 7
38 % miRNA; Concentration: 2455.10 pg/µl



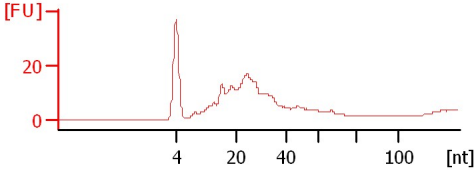
Sample 8
46 % miRNA; Concentration: 3492.80 pg/µl



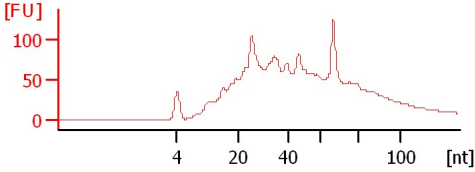
Sample 9
67 % miRNA; Concentration: 4118.60 pg/µl



Sample 10
87 % miRNA; Concentration: 3300.20 pg/µl



Sample 11
74 % miRNA; Concentration: 17013 pg/µl



Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
 Modified: 12/2/2013 2:51:46 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	91 % miRNA; Concentration: 4124.20 pg/μl	
Sample 2		✓	56 % miRNA; Concentration: 5667.80 pg/μl	
Sample 3		✓	78 % miRNA; Concentration: 1040.90 pg/μl	
Sample 4		✓	43 % miRNA; Concentration: 4751.30 pg/μl	
Sample 5		✓	46 % miRNA; Concentration: 1915.60 pg/μl	
Sample 6		✓	35 % miRNA; Concentration: 3203 pg/μl	
Sample 7		✓	38 % miRNA; Concentration: 2455.10 pg/μl	
Sample 8		✓	46 % miRNA; Concentration: 3492.80 pg/μl	
Sample 9		✓	67 % miRNA; Concentration: 4118.60 pg/μl	
Sample 10		✓	87 % miRNA; Concentration: 3300.20 pg/μl	
Sample 11		✓	74 % miRNA; Concentration: 17013 pg/μl	
Ladder		✓	Number of Peaks: 6	

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
Modified: 12/2/2013 2:51:46 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

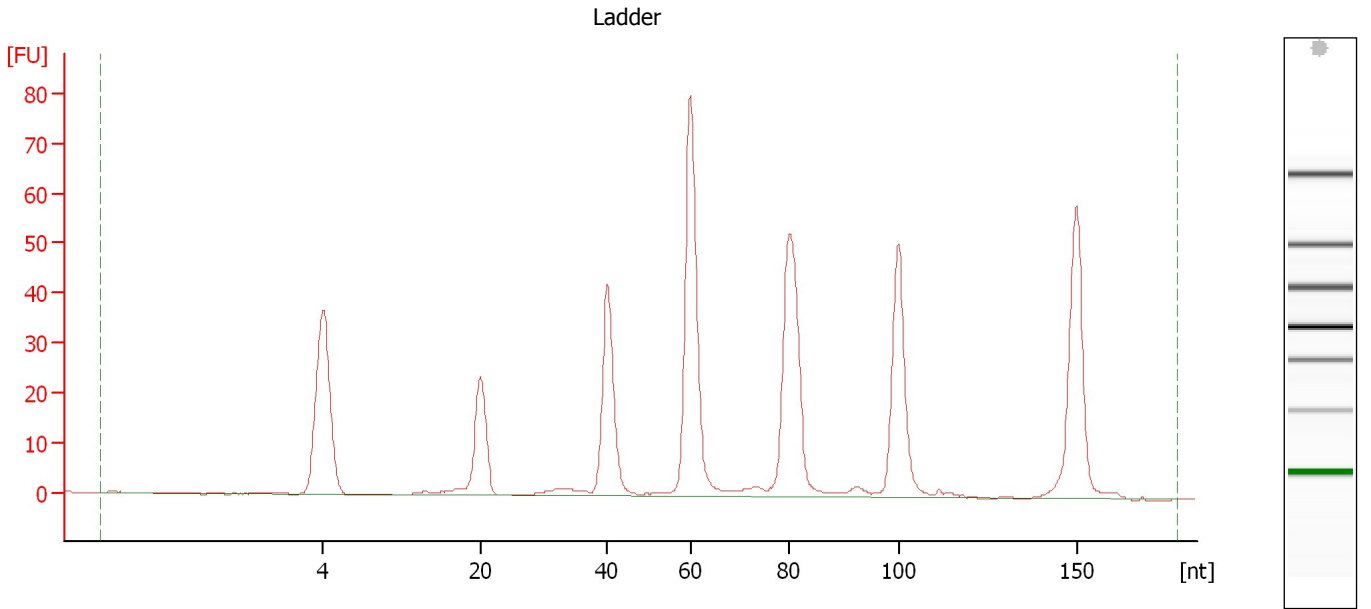
Ladder

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

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
Modified: 12/2/2013 2:51:46 PM

Electropherogram Summary



Overall Results for Ladder

Result Flagging Color:

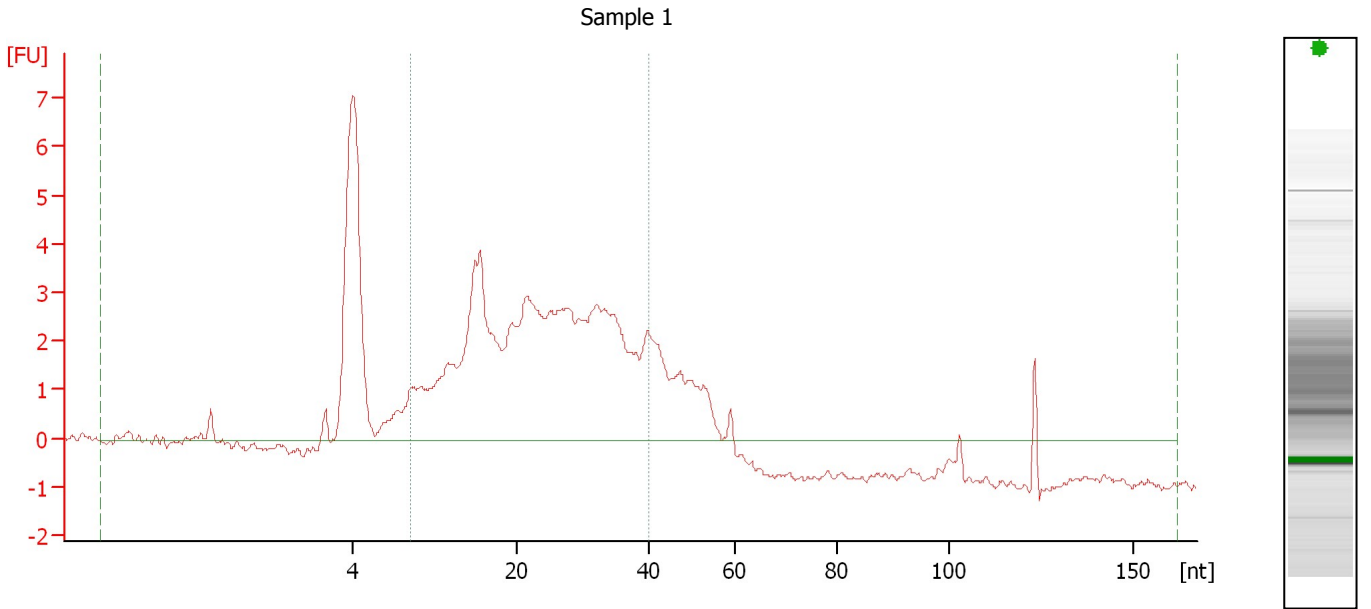
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
 Modified: 12/2/2013 2:51:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

Small RNA Concentration [pg/μl]:	4,541.7	Result Flagging Color:	
miRNA Concentration [pg/μl]:	4,124.2	Result Flagging Label:	91 % miRNA; Concentration: 4124.20 pg/μl
miRNA / Small RNA Ratio [%]:	91		

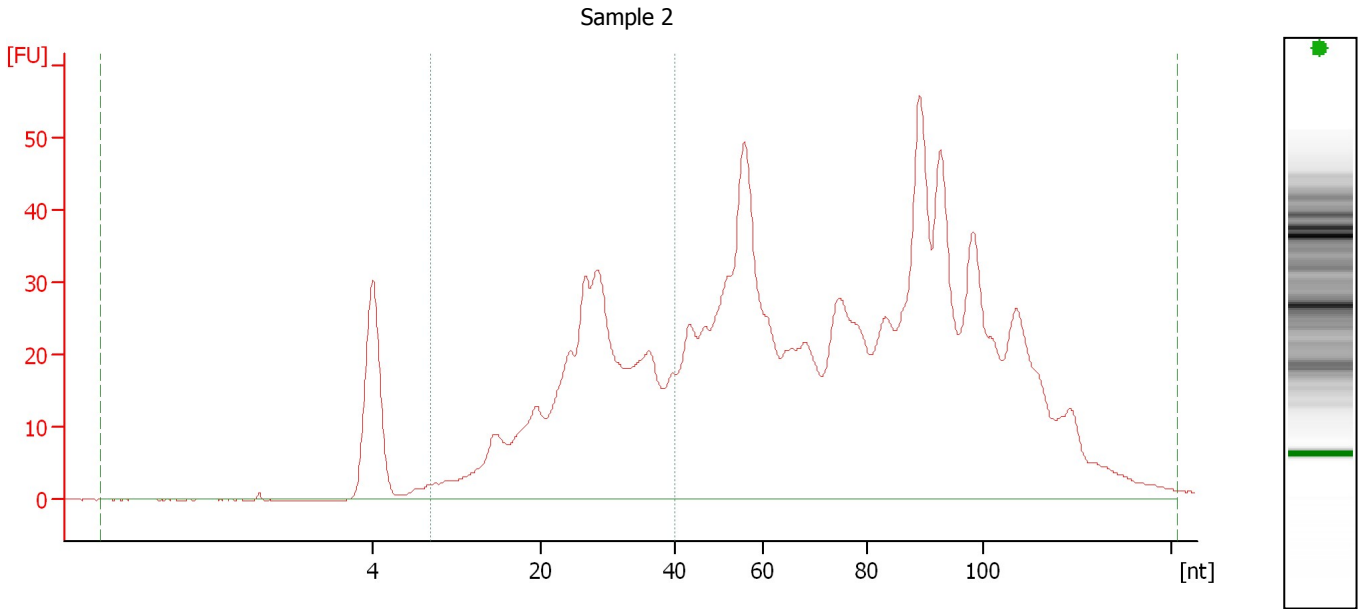
Region table for sample 1 : Sample 1

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	161	24	67.3	4,541.7	100	
miRNA	10	40	24	34.1	4,124.2	91	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
 Modified: 12/2/2013 2:51:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

Small RNA Concentration [pg/μl]:	10,186.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	5,667.8	Result Flagging Label:	56 % miRNA; Concentration: 5667.80 pg/μl
miRNA / Small RNA Ratio [%]:	56		

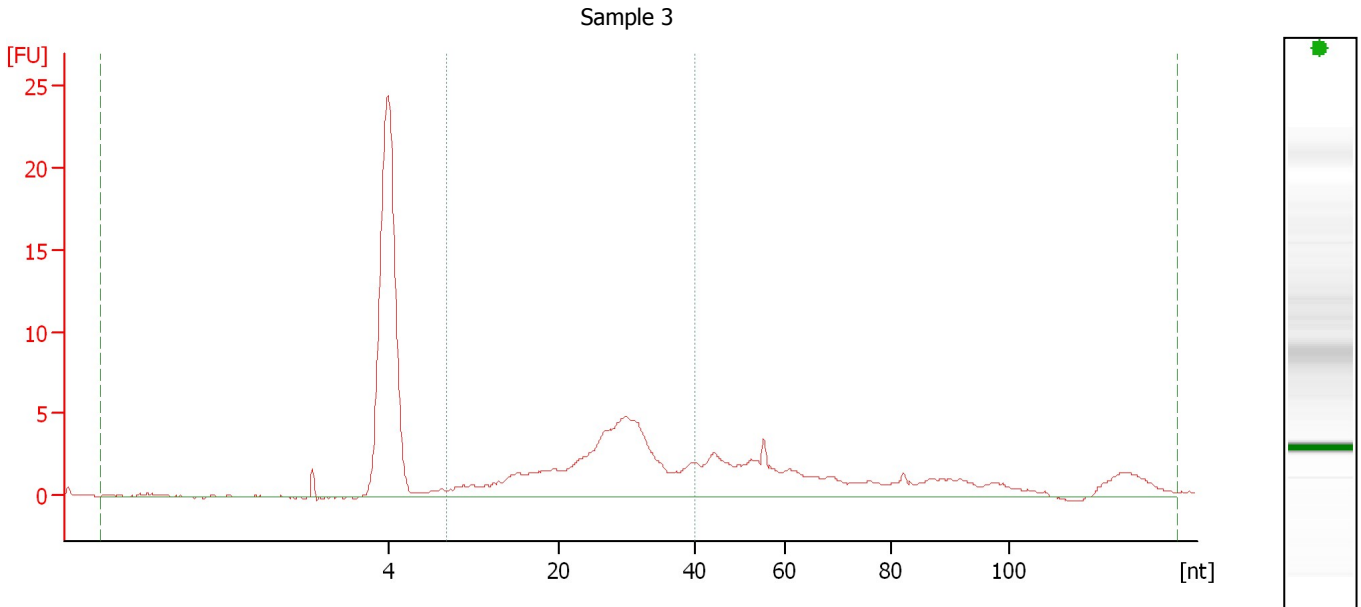
Region table for sample 2 : Sample 2

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	151	66	49.7	10,186.6	100	
miRNA	10	40	27	26.6	5,667.8	56	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

Small RNA Concentration [pg/μl]:	1,328.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	1,040.9	Result Flagging Label:	78 % miRNA; Concentration: 1040.90 pg/μl
miRNA / Small RNA Ratio [%]:	78		

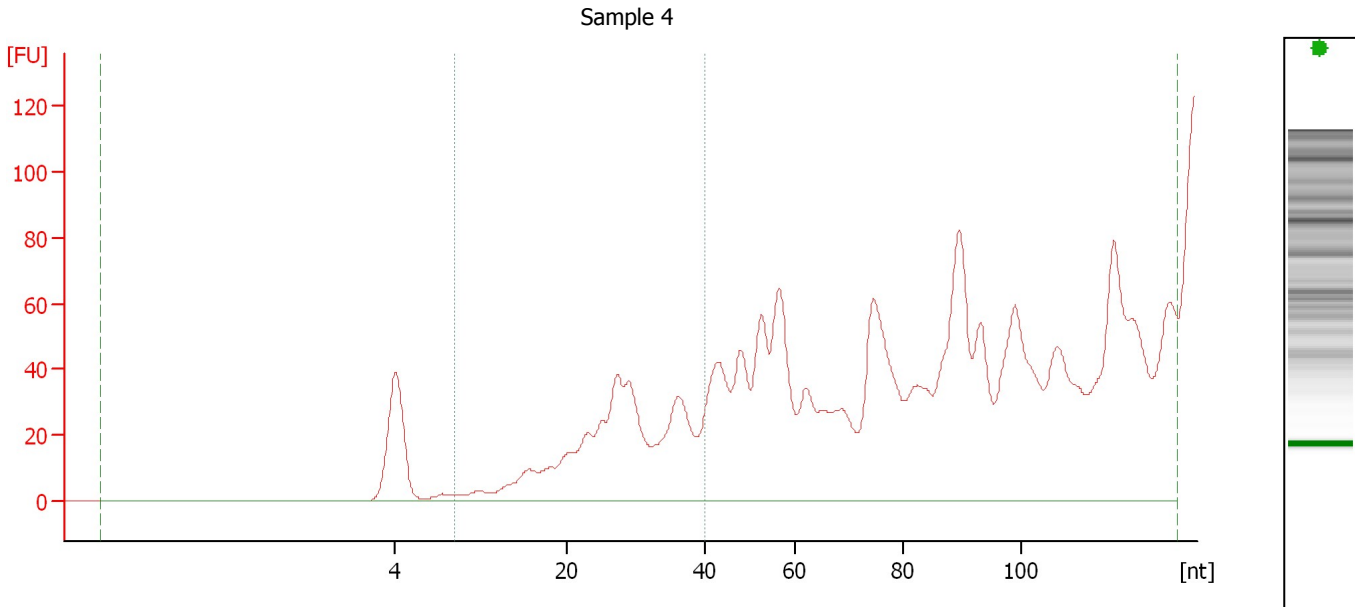
Region table for sample 3 : Sample 3

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	144	36	95.6	1,328.1	100	
miRNA	10	40	27	27.2	1,040.9	78	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
 Modified: 12/2/2013 2:51:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

Small RNA Concentration [pg/μl]:	10,953.8	Result Flagging Color:	
miRNA Concentration [pg/μl]:	4,751.3	Result Flagging Label:	43 % miRNA; Concentration: 4751.30 pg/μl
miRNA / Small RNA Ratio [%]:	43		

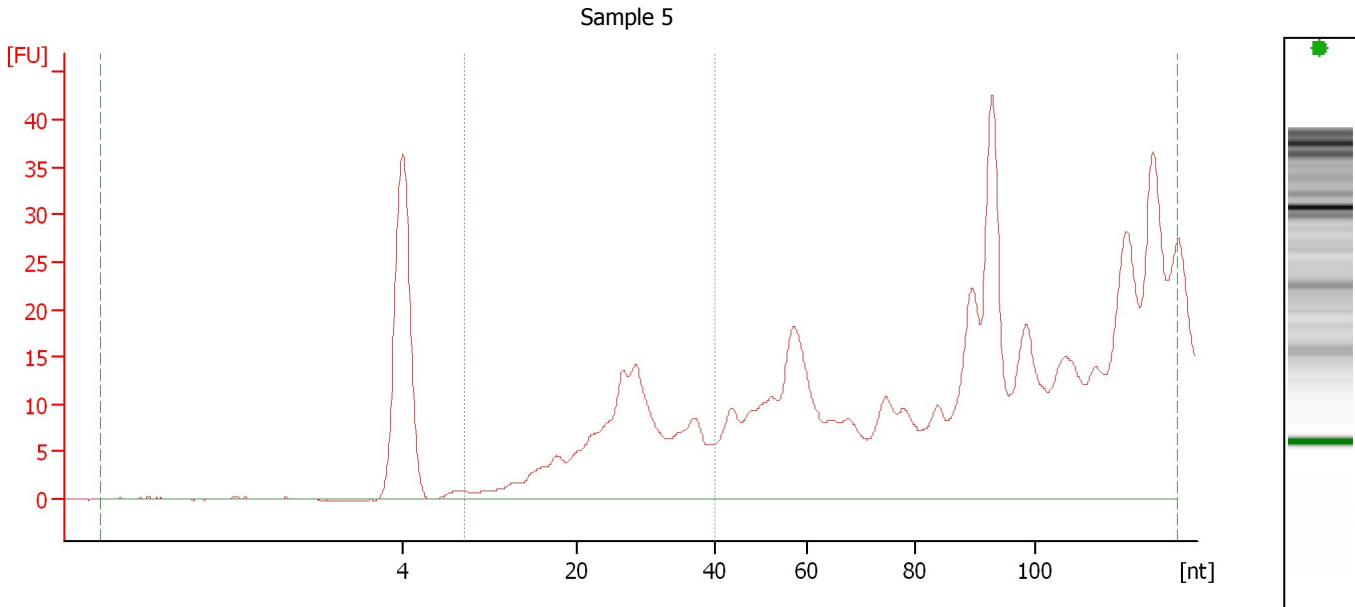
Region table for sample 4 : Sample 4

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	140	77	47.2	10,953.8	100	
miRNA	10	40	28	25.8	4,751.3	43	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
 Modified: 12/2/2013 2:51:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

Small RNA Concentration [pg/μl]:	4,138.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	1,915.6	Result Flagging Label:	46 % miRNA; Concentration: 1915.60 pg/μl
miRNA / Small RNA Ratio [%]:	46		

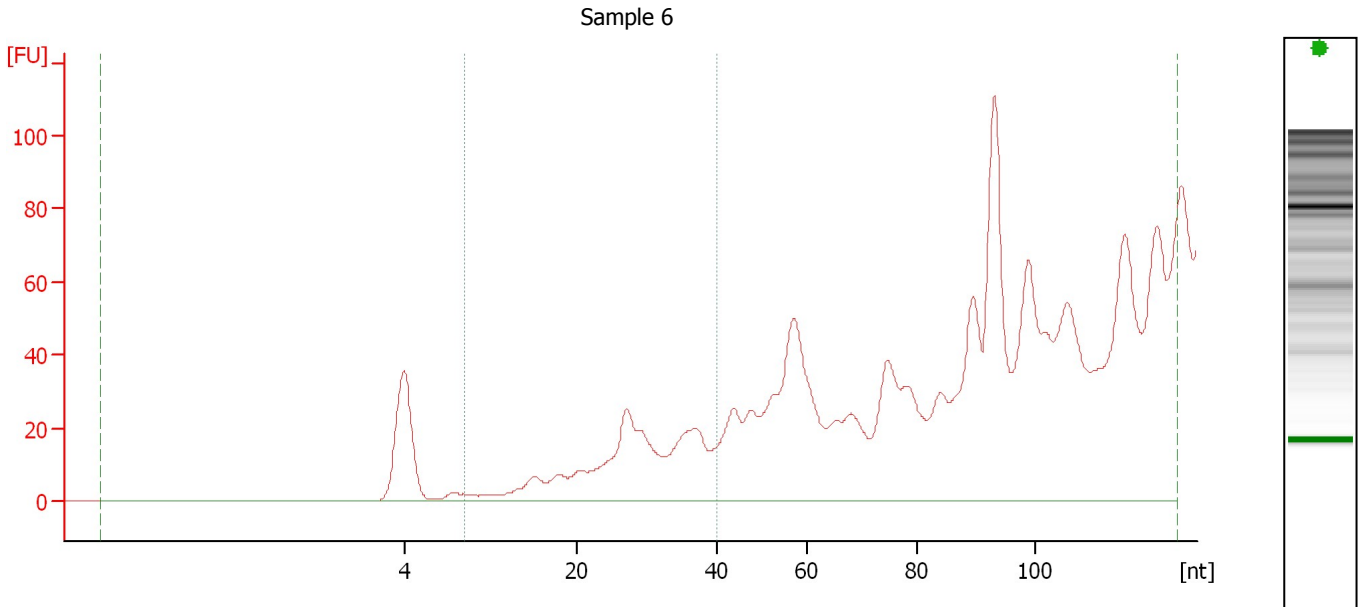
Region table for sample 5 : Sample 5

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	136	76	52.9	4,138.6	100	
miRNA	10	40	27	25.6	1,915.6	46	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

Small RNA Concentration [pg/μl]:	9,279.4	Result Flagging Color:	
miRNA Concentration [pg/μl]:	3,203.0	Result Flagging Label:	35 % miRNA; Concentration: 3203 pg/μl
miRNA / Small RNA Ratio [%]:	35		

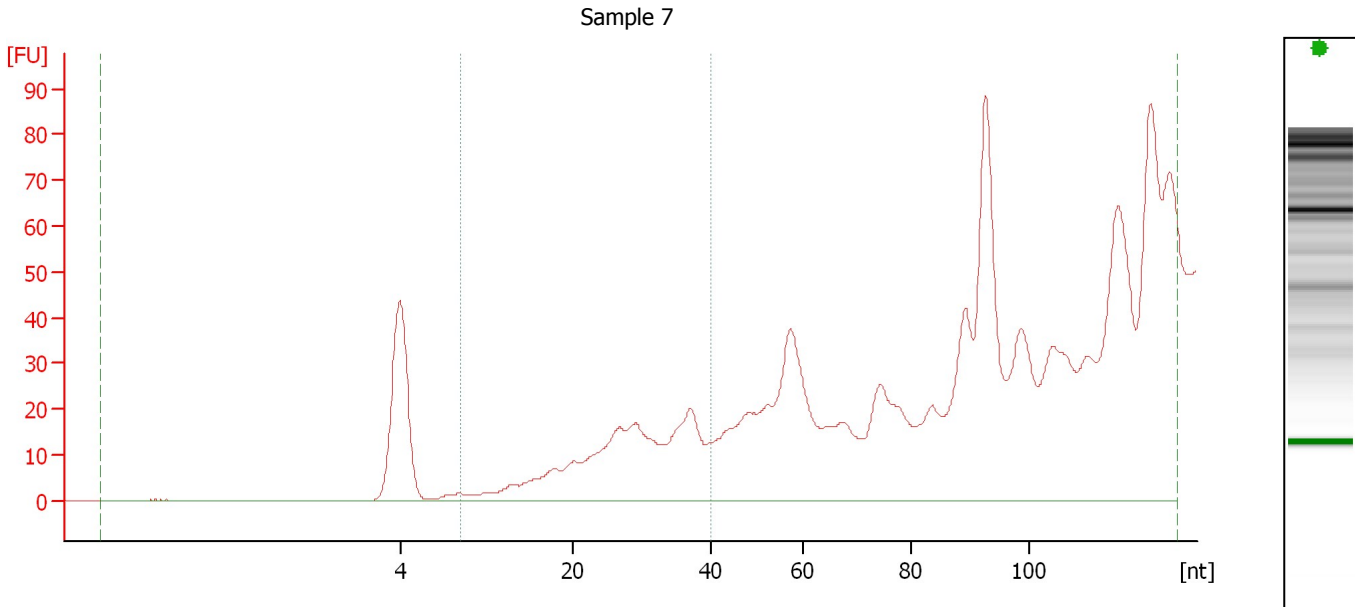
Region table for sample 6 : Sample 6

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	136	83	42.4	9,279.4	100	
miRNA	10	40	28	26.3	3,203.0	35	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
 Modified: 12/2/2013 2:51:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

Small RNA Concentration [pg/μl]:	6,516.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	2,455.1	Result Flagging Label:	38 % miRNA; Concentration: 2455.10 pg/μl
miRNA / Small RNA Ratio [%]:	38		

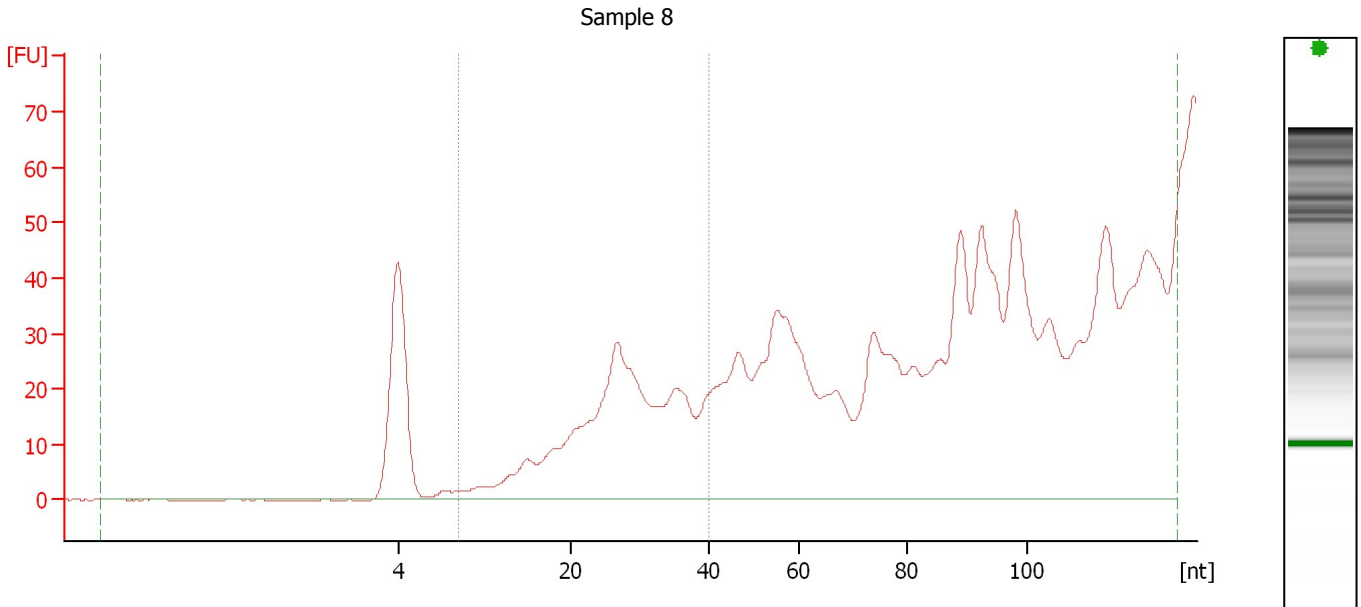
Region table for sample 7 : Sample 7

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	138	84	45.8	6,516.1	100	
miRNA	10	40	28	26.6	2,455.1	38	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

Small RNA Concentration [pg/μl]:	7,554.9	Result Flagging Color:	
miRNA Concentration [pg/μl]:	3,492.8	Result Flagging Label:	46 % miRNA; Concentration: 3492.80 pg/μl
miRNA / Small RNA Ratio [%]:	46		

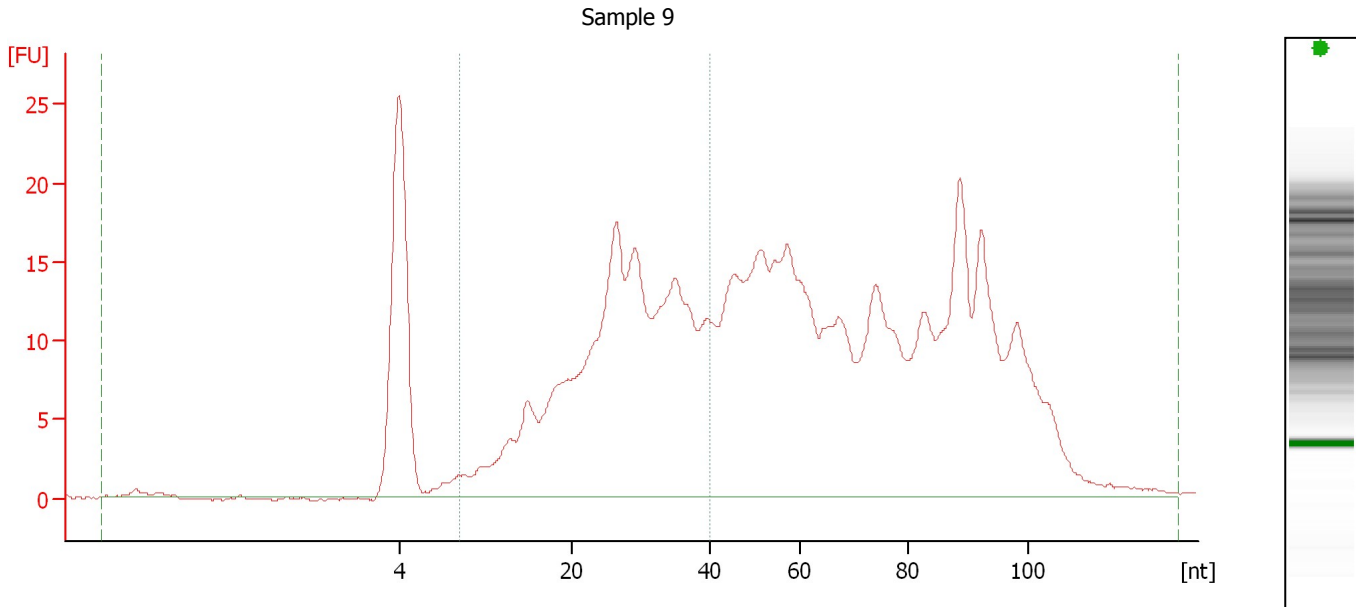
Region table for sample 8 : Sample 8

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	139	77	49.0	7,554.9	100	
miRNA	10	40	28	26.4	3,492.8	46	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

Small RNA Concentration [pg/μl]:	6,192.7	Result Flagging Color:	
miRNA Concentration [pg/μl]:	4,118.6	Result Flagging Label:	67 % miRNA; Concentration: 4118.60 pg/μl
miRNA / Small RNA Ratio [%]:	67		

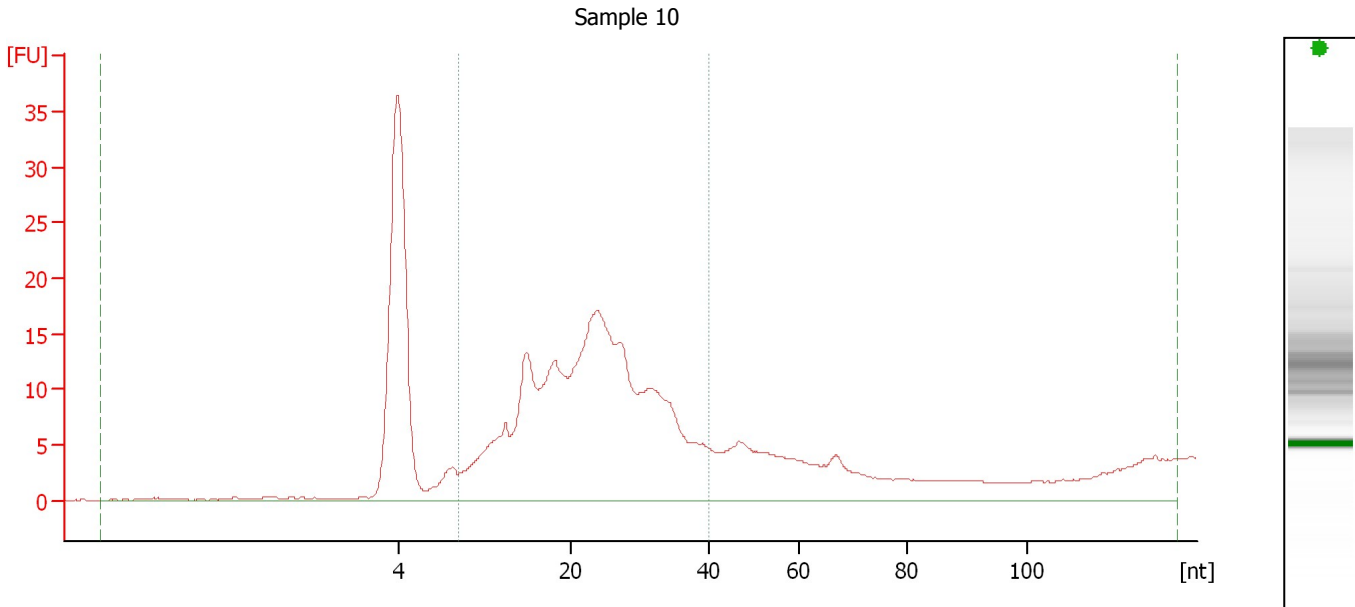
Region table for sample 9 : Sample 9

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	139	54	55.4	6,192.7	100	
miRNA	10	40	27	27.7	4,118.6	67	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
 Modified: 12/2/2013 2:51:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

Small RNA Concentration [pg/μl]:	3,798.2	Result Flagging Color:	
miRNA Concentration [pg/μl]:	3,300.2	Result Flagging Label:	87 % miRNA; Concentration: 3300.20 pg/μl
miRNA / Small RNA Ratio [%]:	87		

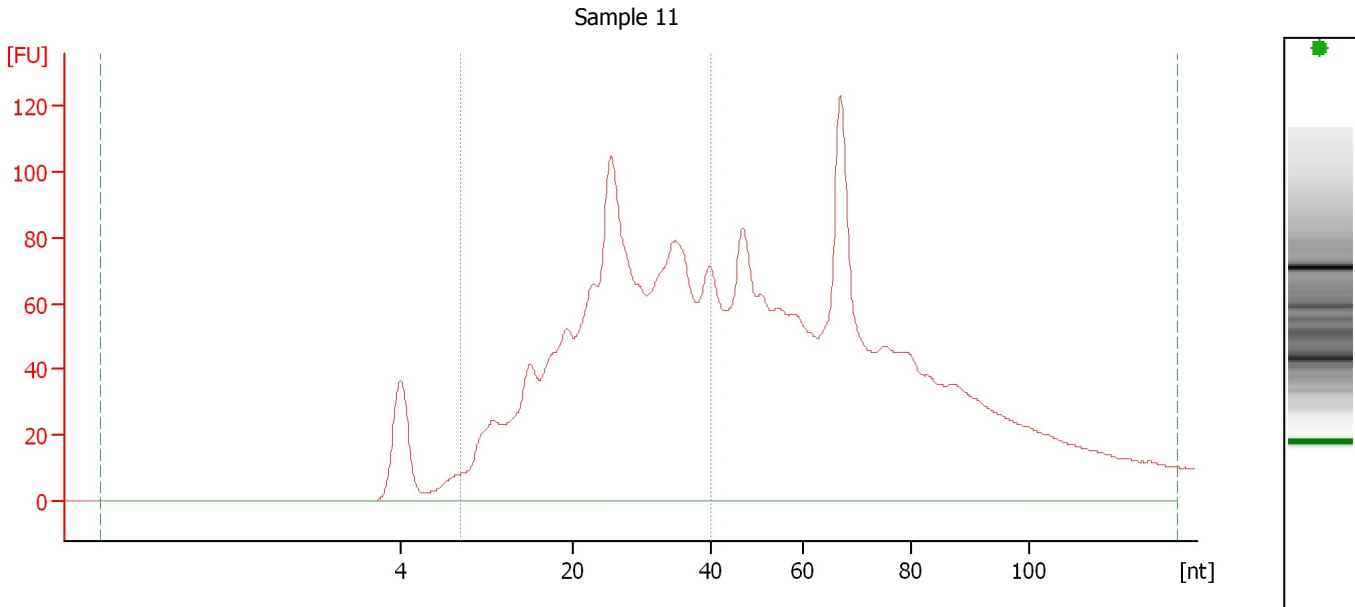
Region table for sample 10 : Sample 10

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	139	37	92.6	3,798.2	100	
miRNA	10	40	24	31.1	3,300.2	87	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
 Modified: 12/2/2013 2:51:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

Small RNA Concentration [pg/μl]:	22,975.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	17,013.0	Result Flagging Label:	74 % miRNA; Concentration: 17013 pg/μl
miRNA / Small RNA Ratio [%]:	74		

Region table for sample 11 : Sample 11

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	138	52	57.4	22,975.1	100	
miRNA	10	40	26	29.9	17,013.0	74	

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-02\2013-12-02_004.xad

Created: 12/2/2013 2:19:51 PM
Modified: 12/2/2013 2:51:46 PM

Gel Image

