

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_005.xad

Created: 11/14/2012 2:06:04 PM
Modified: 11/14/2012 2:32:17 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

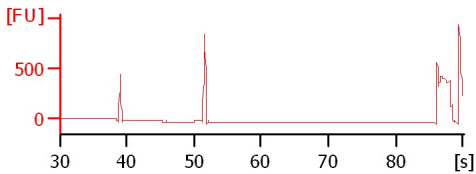
Assay Class: Small RNA
Version: 1.2
Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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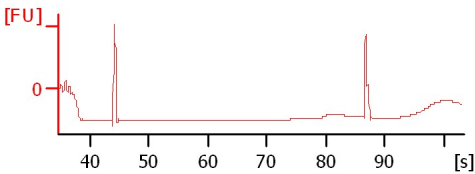
Chip Information:

Chip Lot #: pk078k40
Reagent Kit Lot #:
Chip Comments: 1-4 no digestion,
5-8 with digestion

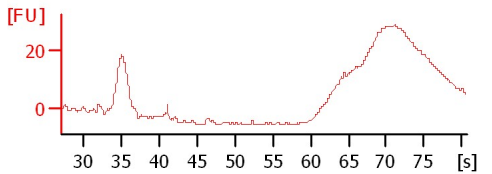
Sample 1
Number of Peaks: 3



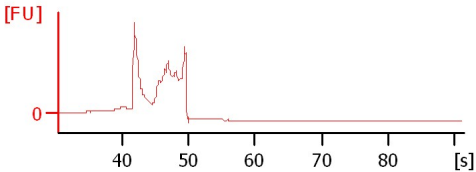
Sample 2
Number of Peaks: 9



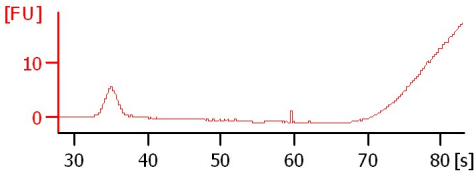
Sample 3
Number of Peaks: 7



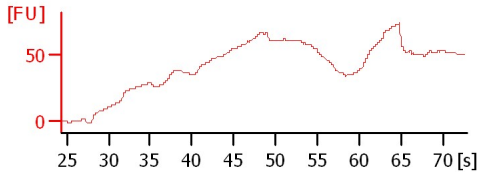
Sample 4
4 % miRNA; Concentration: 3201.40 pg/µl



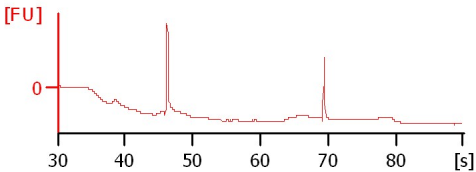
Sample 5
100 % miRNA; Concentration: -21870.20...



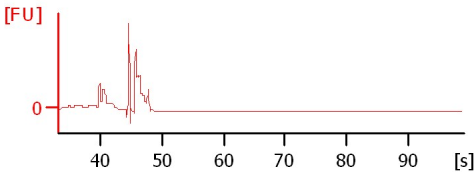
Sample 6
11 % miRNA; Concentration: 448.40 pg/µl



Sample 7
All Other Samples



Sample 8
2 % miRNA; Concentration: 1300.70 pg/µl



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	Number of Peaks: 3	Grey
Sample 2		✓	Number of Peaks: 9	Grey
Sample 3		✓	Number of Peaks: 7	Grey
Sample 4		✓	4 % miRNA; Concentration: 3201.40 pg/μl	Light Green
Sample 5		✓	100 % miRNA; Concentration: -21870.20 pg/μl	Dark Green
Sample 6		✓	11 % miRNA; Concentration: 448.40 pg/μl	Dark Green
Sample 7		✓	All Other Samples	Blue
Sample 8		✓	2 % miRNA; Concentration: 1300.70 pg/μl	Light Green
Sample 9				Blue
Sample 10				Blue
Sample 11				Blue
Ladder		✓	Number of Peaks: 26	Grey

Chip Lot #

pk078k40

Reagent Kit Lot #

Chip Comments :

1-4 no digestion,
 5-8 with digestion

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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

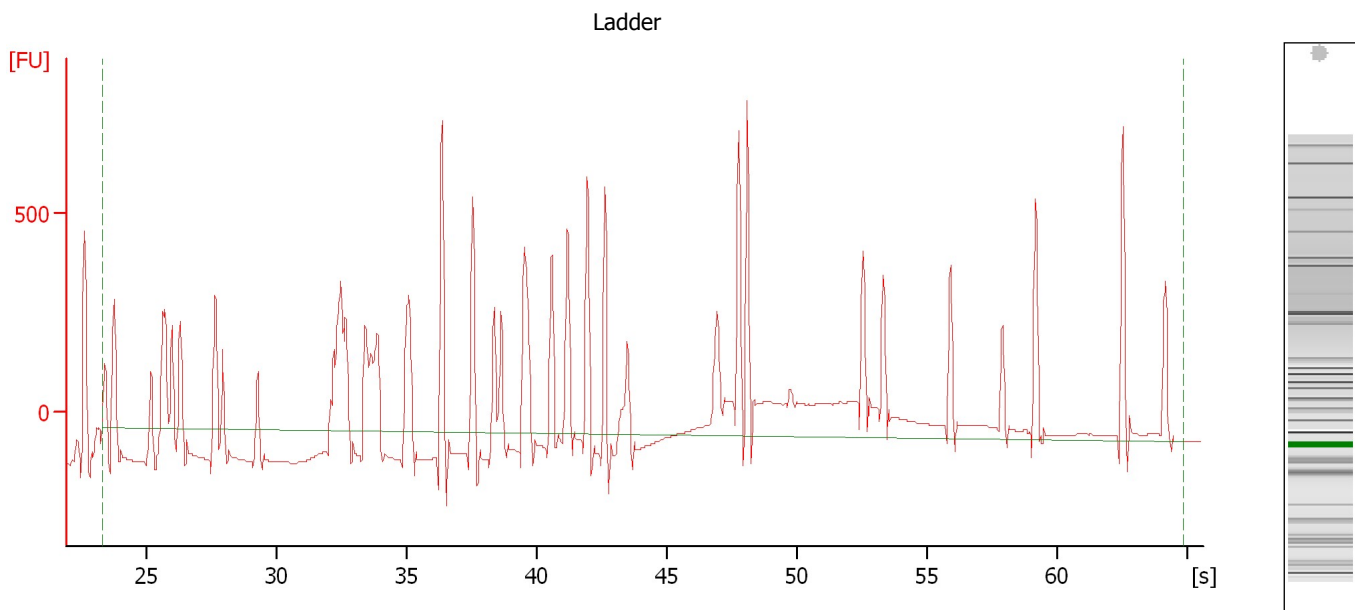
Ladder

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:

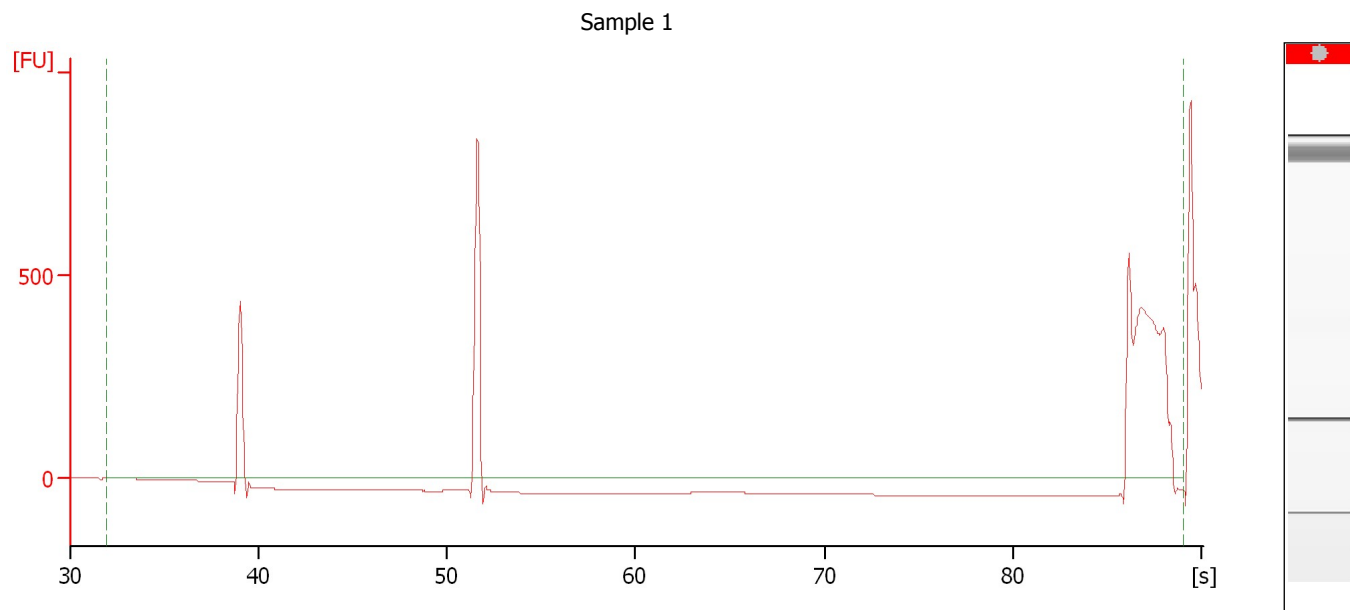
Result Flagging Label:

Number of Peaks: 26

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_005.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

Result Flagging Color:



Result Flagging Label:

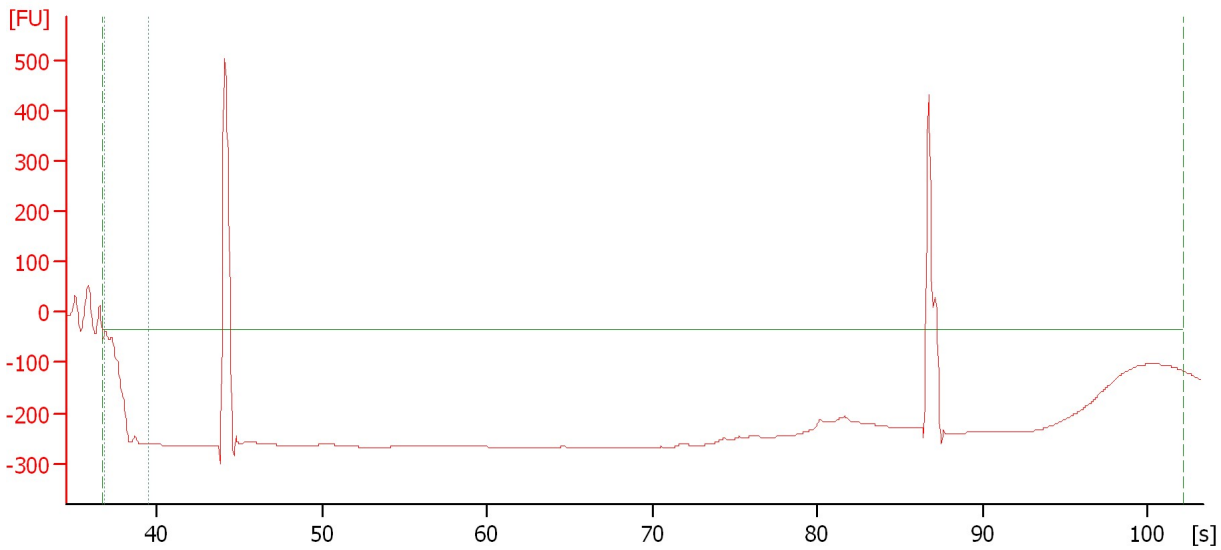
Number of Peaks: 3

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_005.xad

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Electropherogram Summary Continued ...

Sample 2



Overall Results for sample 2 : Sample 2

Small RNA Concentration [pg/μl]:	5.7	Result Flagging Color:	
miRNA Concentration [pg/μl]:	0.0	Result Flagging Label:	Number of Peaks: 9
miRNA / Small RNA Ratio [%]:	0		

Region table for sample 2 : Sample 2

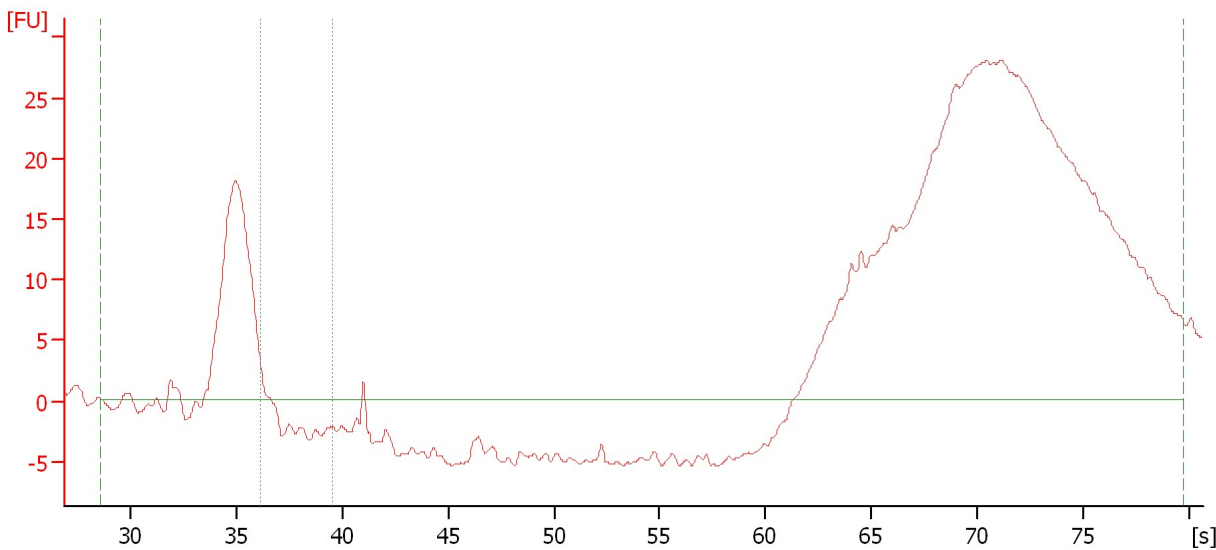
Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	12	530	190	80.5	5.7	100	
miRNA	12	40	0	0.0	0.0	0	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_005.xad

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Electropherogram Summary Continued ...

Sample 3



Overall Results for sample 3 : Sample 3

Small RNA Concentration [pg/μl]:	7,000.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	1.6	Result Flagging Label:	Number of Peaks: 7
miRNA / Small RNA Ratio [%]:	0		

Region table for sample 3 : Sample 3

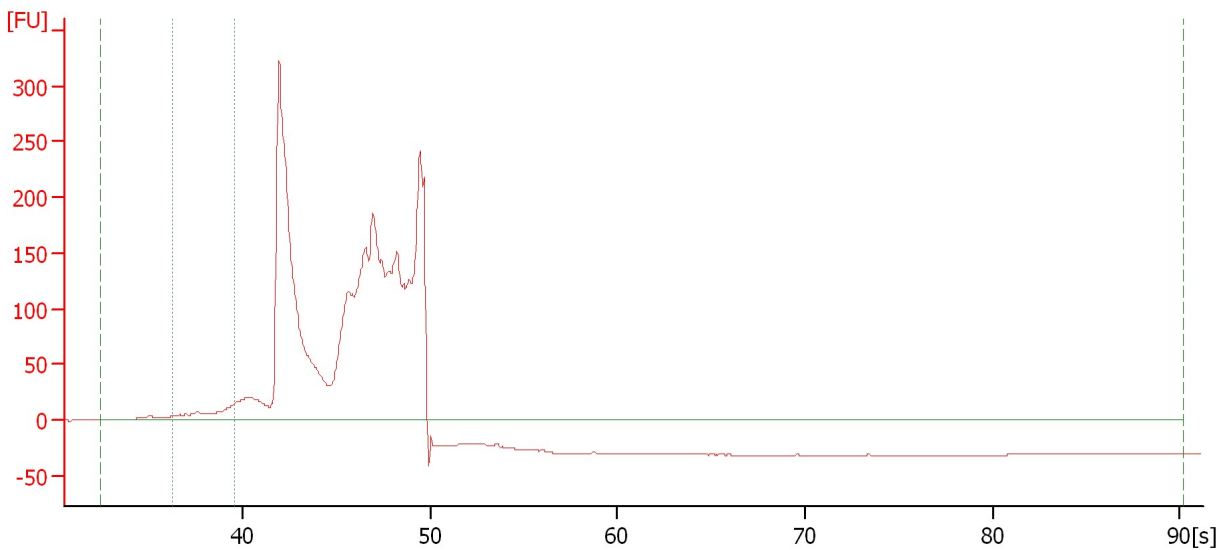
Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	305	200	36.1	7,000.6	100	
miRNA	10	40	10	5.1	1.6	0	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_005.xad

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Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

Small RNA Concentration [pg/μl]:	77,771.5	Result Flagging Color:	
miRNA Concentration [pg/μl]:	3,201.4	Result Flagging Label:	4 % miRNA; Concentration: 3201.40 pg/μl
miRNA / Small RNA Ratio [%]:	4		

Region table for sample 4 : Sample 4

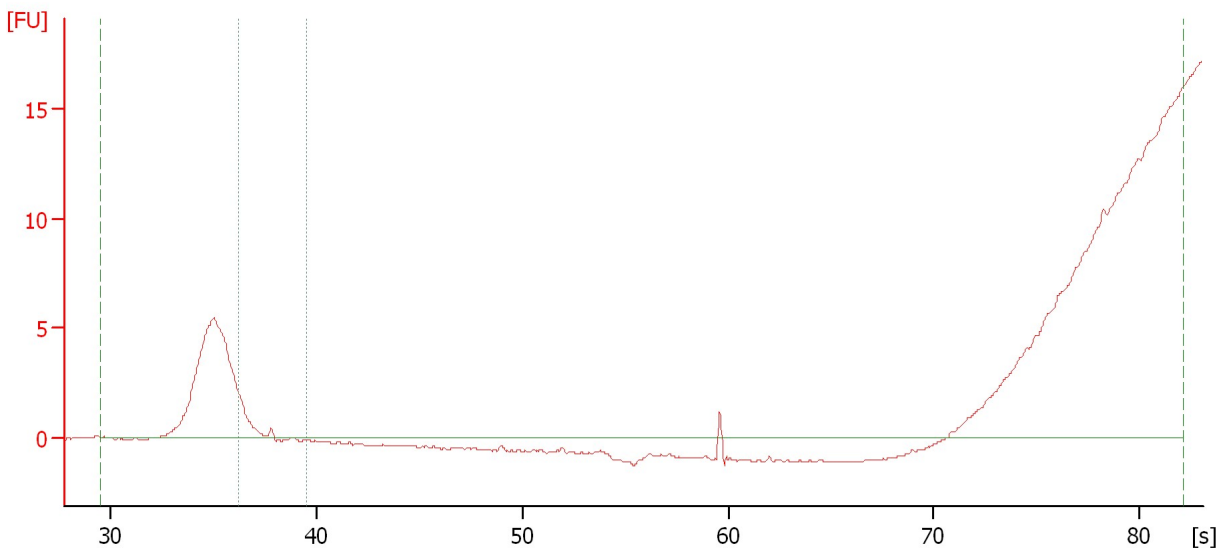
Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	410	67	14.2	77,771.5	100	
miRNA	10	40	23	40.1	3,201.4	4	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_005.xad

Created: 11/14/2012 2:06:04 PM
 Modified: 11/14/2012 2:32:17 PM

Electropherogram Summary Continued ...

Sample 5



Overall Results for sample 5 : Sample 5

Small RNA Concentration [pg/μl]:	-21,870.2	Result Flagging Color:	
miRNA Concentration [pg/μl]:	-21,870.2	Result Flagging Label:	100 % miRNA; Concentration: -21870.20 pg/μl
miRNA / Small RNA Ratio [%]:	100		

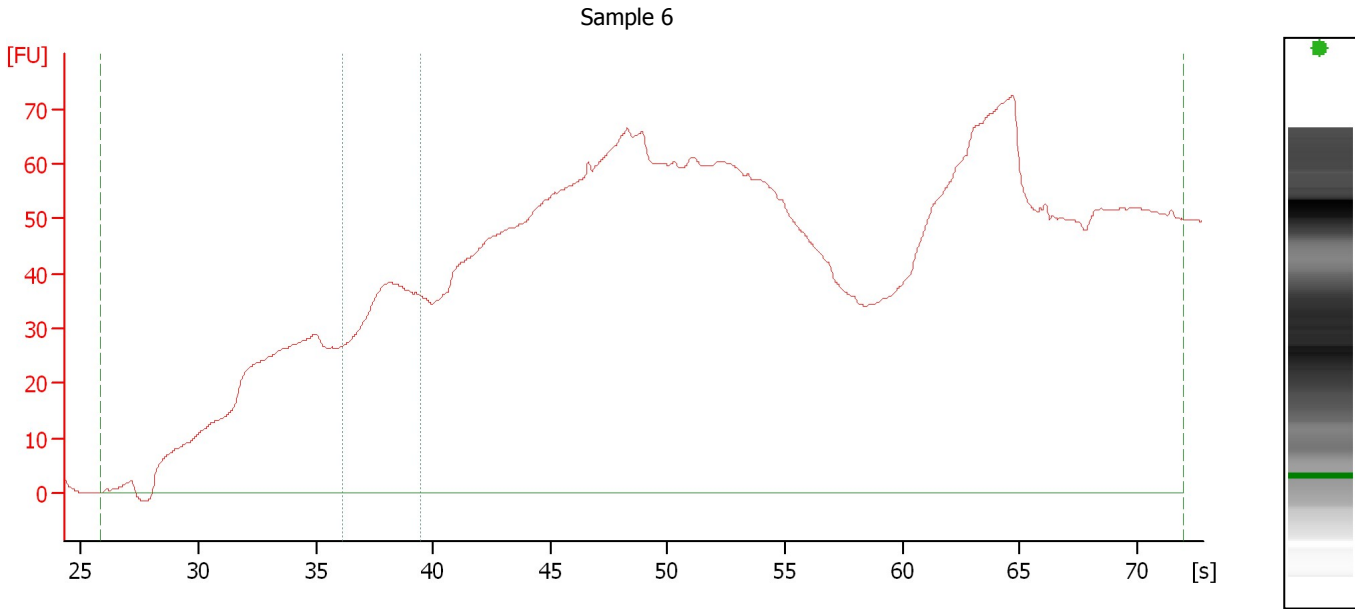
Region table for sample 5 : Sample 5

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	329	259	37.7	-21,870.2	100	
miRNA	10	40	12	18.2	-21,870.2	100	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_005.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

Small RNA Concentration [pg/μl]:	4,215.3	Result Flagging Color:	
miRNA Concentration [pg/μl]:	448.4	Result Flagging Label:	11 % miRNA; Concentration: 448.40 pg/μl
miRNA / Small RNA Ratio [%]:	11		

Region table for sample 6 : Sample 6

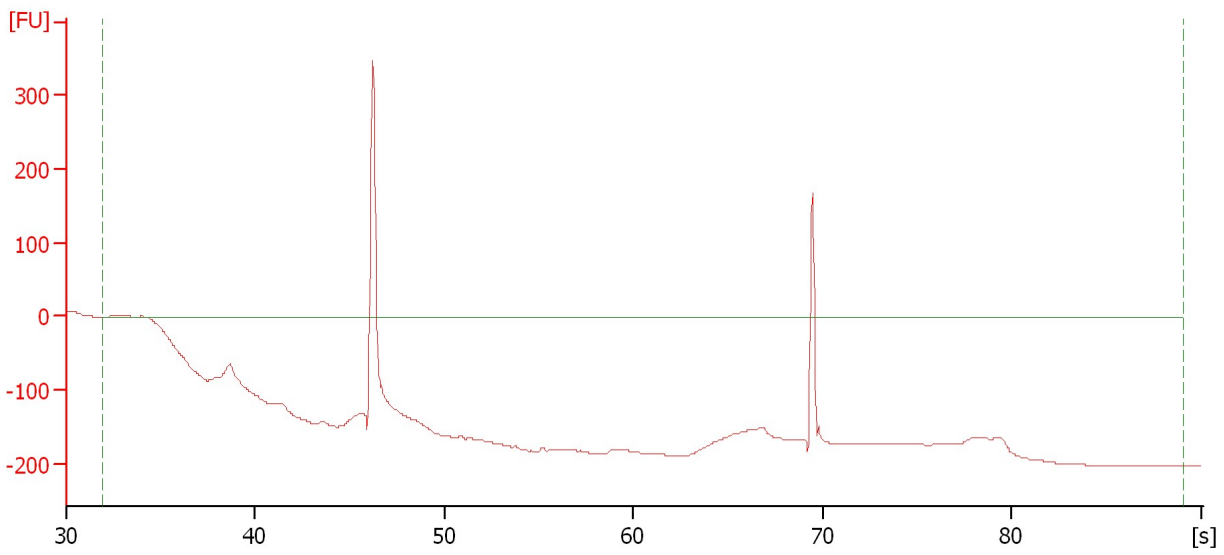
Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	228	97	59.9	4,215.3	100	
miRNA	10	40	20	40.5	448.4	11	

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_005.xad

Created: 11/14/2012 2:06:04 PM
Modified: 11/14/2012 2:32:17 PM

Electropherogram Summary Continued ...

Sample 7



Overall Results for sample 7 : Sample 7

Result Flagging Color:

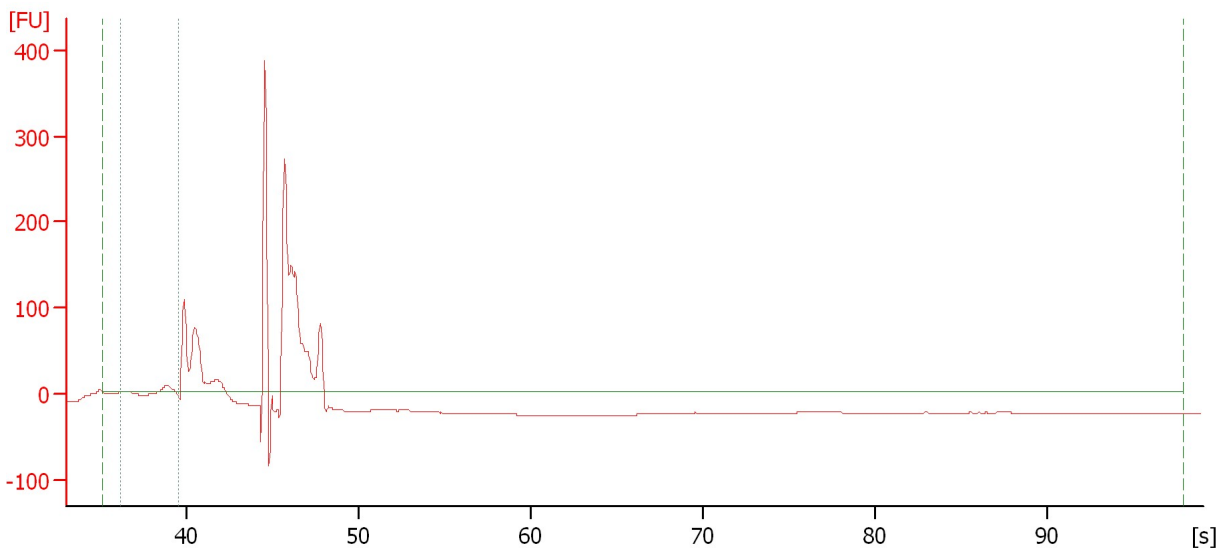
Result Flagging Label: All Other Samples

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_005.xad

Created: 11/14/2012 2:06:04 PM
 Modified: 11/14/2012 2:32:17 PM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

Small RNA Concentration [pg/μl]:	73,662.7	Result Flagging Color:	
miRNA Concentration [pg/μl]:	1,300.7	Result Flagging Label:	2 % miRNA; Concentration: 1300.70 pg/μl
miRNA / Small RNA Ratio [%]:	2		

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	5	487	64	13.3	73,662.7	100	
miRNA	10	40	29	11.5	1,300.7	2	

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_005.xad

Created: 11/14/2012 2:06:04 PM
Modified: 11/14/2012 2:32:17 PM

Gel Image

Assay Class: Small RNA
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Modified: 11/14/2012 2:32:17 PM

Invalid Samples

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: C:\...ents and Settings\Bioanalyzer\2012-11-14\2012-11-14_005.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: 9)		Instrument	Run		11/14/2012 2:32:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-11-14\2012-11-14_005.xad)		Instrument	Run		11/14/2012 2:06:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/14/2012 2:06:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/14/2012 2:06:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/14/2012 2:06:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/14/2012 2:06:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/14/2012 2:06:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/14/2012 2:06:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1