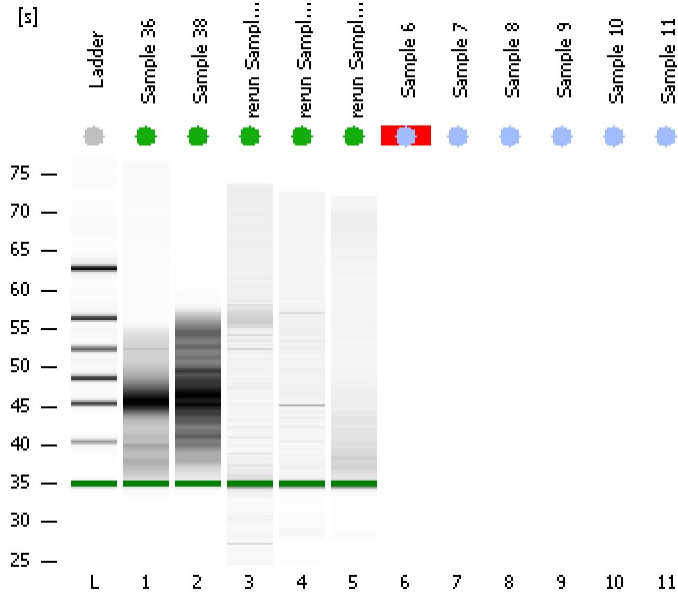


Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
 Modified: 1/21/2015 2:48:21 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

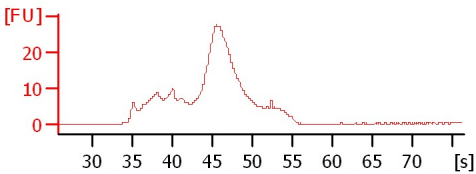
Assay Class: Small RNA
 Version: 1.2
 Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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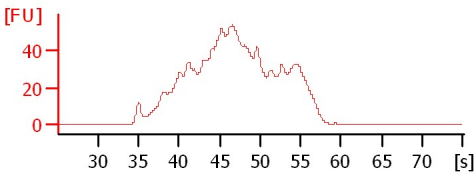
Chip Information:

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

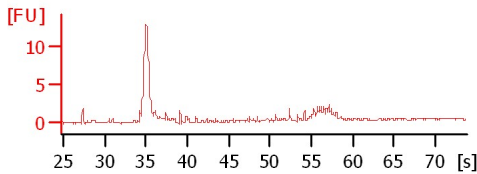
Sample 36
 63 % miRNA; Concentration: 7053.40 pg/µl



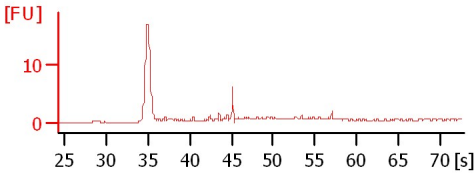
Sample 38
 62 % miRNA; Concentration: 12083 pg/µl



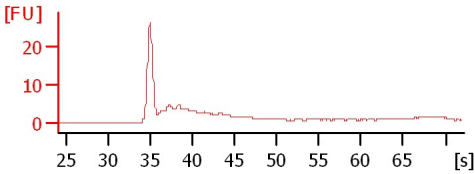
rerun Sample 1
 32 % miRNA; Concentration: 215.70 pg/µl



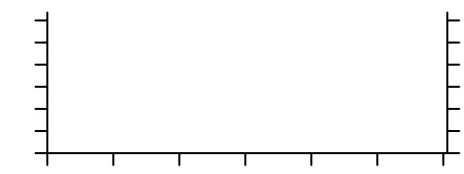
rerun Sample 8
 47 % miRNA; Concentration: 256.70 pg/µl



rerun Sample 21
 70 % miRNA; Concentration: 742.40 pg/µl















Sample 6
 All Other Samples



Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
 Modified: 1/21/2015 2:48:21 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 36		✓	63 % miRNA; Concentration: 7053.40 pg/μl	
Sample 38		✓	62 % miRNA; Concentration: 12083 pg/μl	
rerun Sample 1		✓	32 % miRNA; Concentration: 215.70 pg/μl	
rerun Sample 8		✓	47 % miRNA; Concentration: 256.70 pg/μl	
rerun Sample 21		✓	70 % miRNA; Concentration: 742.40 pg/μl	
Sample 6		✗	All Other Samples	
Sample 7		✗		
Sample 8		✗		
Sample 9		✗		
Sample 10		✗		
Sample 11		✗		
Ladder		✓	Number of Peaks: 6	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
Modified: 1/21/2015 2:48:21 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/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

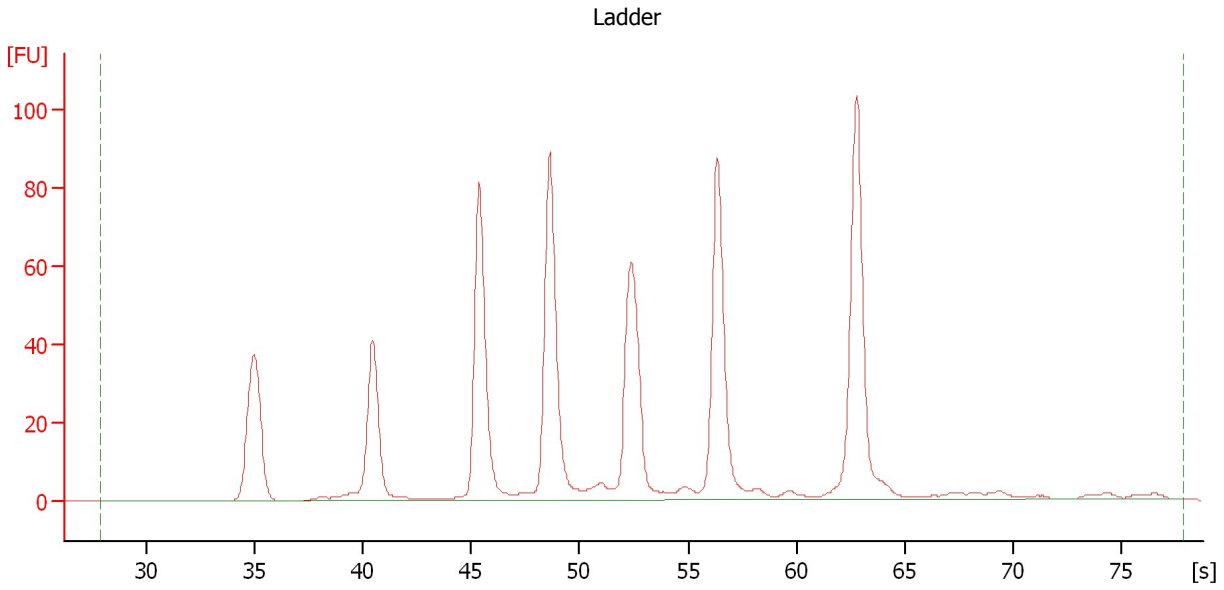
Ladder

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

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
Modified: 1/21/2015 2:48:21 PM

Electropherogram Summary



Overall Results for Ladder

Result Flagging Color:

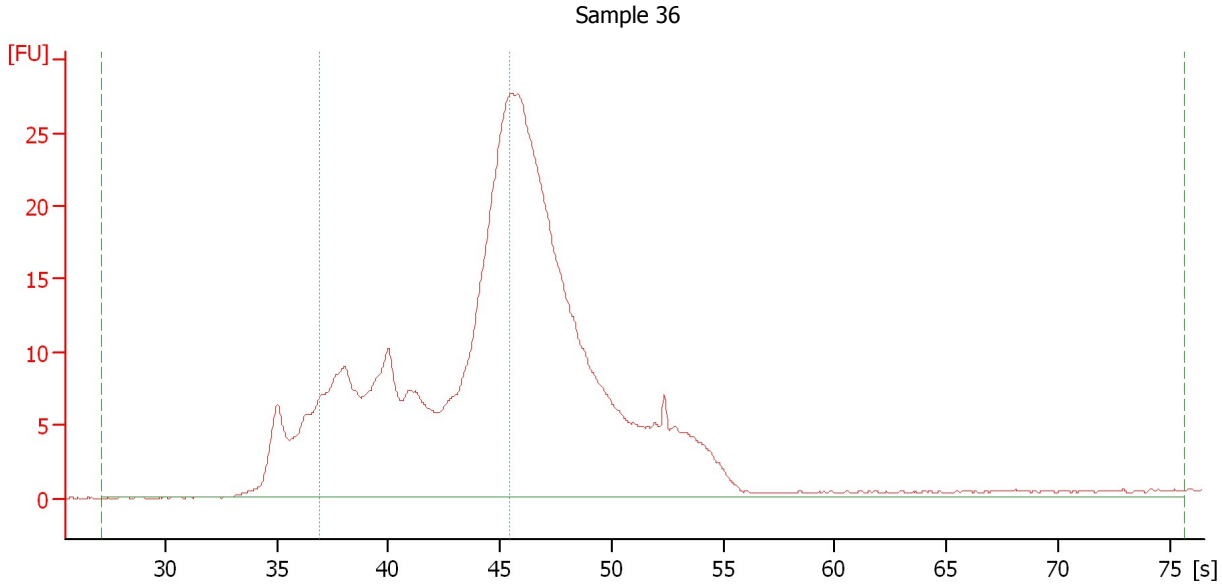
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
 Modified: 1/21/2015 2:48:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 36

Small RNA Concentration [pg/μl]:	11,181.0	Result Flagging Color:	
miRNA Concentration [pg/μl]:	7,053.4	Result Flagging Label:	63 % miRNA; Concentration: 7053.40 pg/μl
miRNA / Small RNA Ratio [%]:	63		

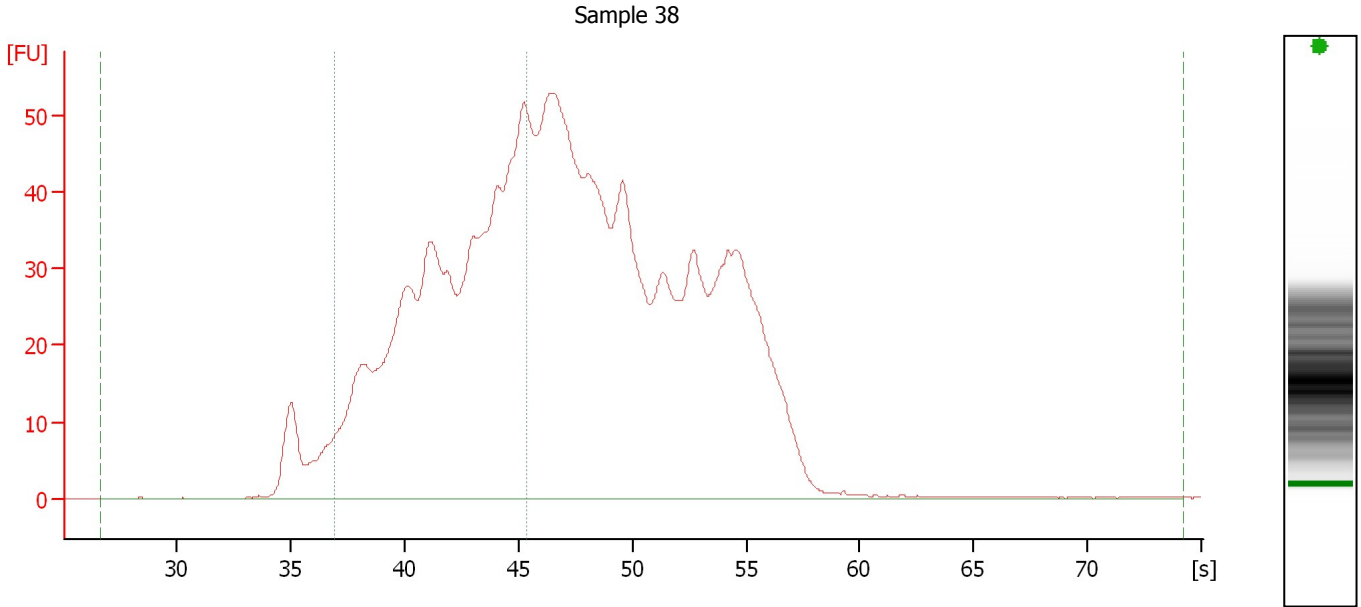
Region table for sample 1 : Sample 36

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	251	47	75.6	11,181.0	100	
miRNA	10	40	27	37.3	7,053.4	63	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
 Modified: 1/21/2015 2:48:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 38

Small RNA Concentration [pg/μl]:	19,514.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	12,083.0	Result Flagging Label:	62 % miRNA; Concentration: 12083 pg/μl
miRNA / Small RNA Ratio [%]:	62		

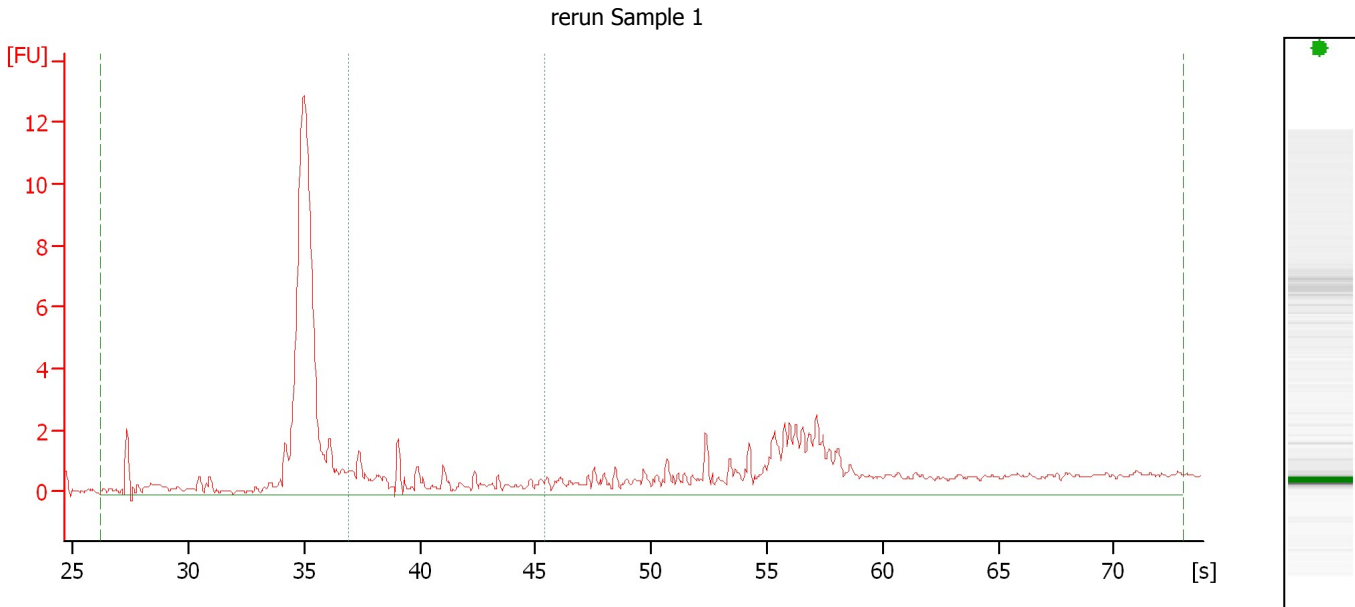
Region table for sample 2 : Sample 38

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	240	52	53.1	19,514.1	100	
miRNA	10	40	27	32.1	12,083.0	62	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
 Modified: 1/21/2015 2:48:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : rerun Sample 1

Small RNA Concentration [pg/μl]:	671.9	Result Flagging Color:	
miRNA Concentration [pg/μl]:	215.7	Result Flagging Label:	32 % miRNA; Concentration: 215.70 pg/μl
miRNA / Small RNA Ratio [%]:	32		

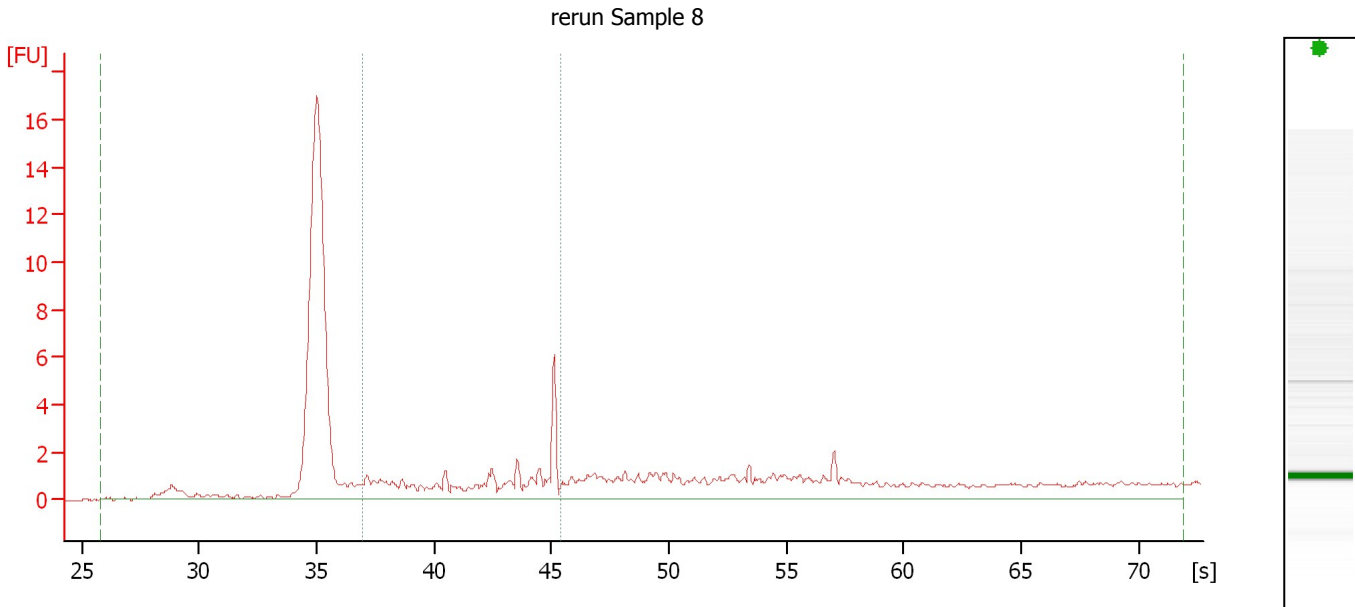
Region table for sample 3 : rerun Sample 1

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	230	72	97.3	671.9	100	
miRNA	10	40	21	43.1	215.7	32	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
 Modified: 1/21/2015 2:48:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : rerun Sample 8

Small RNA Concentration [pg/μl]:	549.4	Result Flagging Color:	
miRNA Concentration [pg/μl]:	256.7	Result Flagging Label:	47 % miRNA; Concentration: 256.70 pg/μl
miRNA / Small RNA Ratio [%]:	47		

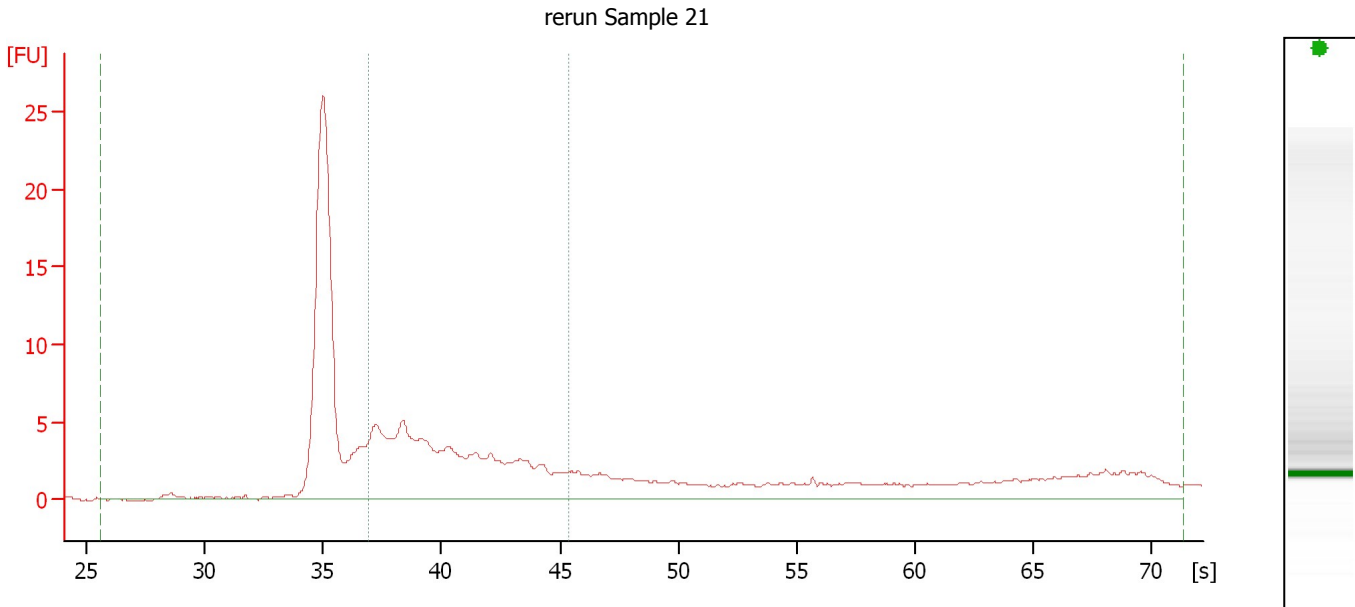
Region table for sample 4 : rerun Sample 8

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	221	62	100.0	549.4	100	
miRNA	10	40	26	38.2	256.7	47	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
 Modified: 1/21/2015 2:48:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : rerun Sample 21

Small RNA Concentration [pg/μl]:	1,055.4	Result Flagging Color:	
miRNA Concentration [pg/μl]:	742.4	Result Flagging Label:	70 % miRNA; Concentration: 742.40 pg/μl
miRNA / Small RNA Ratio [%]:	70		

Region table for sample 5 : rerun Sample 21

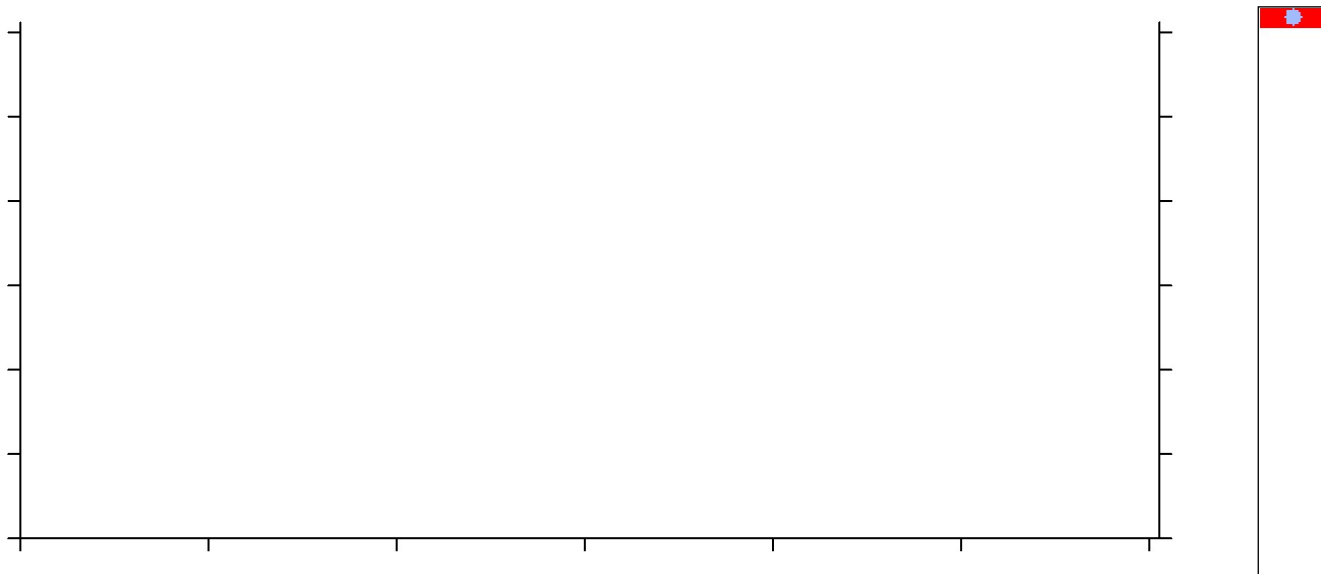
Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	217	56	100.0	1,055.4	100	
miRNA	10	40	21	40.3	742.4	70	

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
Modified: 1/21/2015 2:48:21 PM

Electropherogram Summary Continued ...

Sample 6



Setpoint Deviations for sample 6 : Sample 6

End Analysis Time Range [s] : 17.6

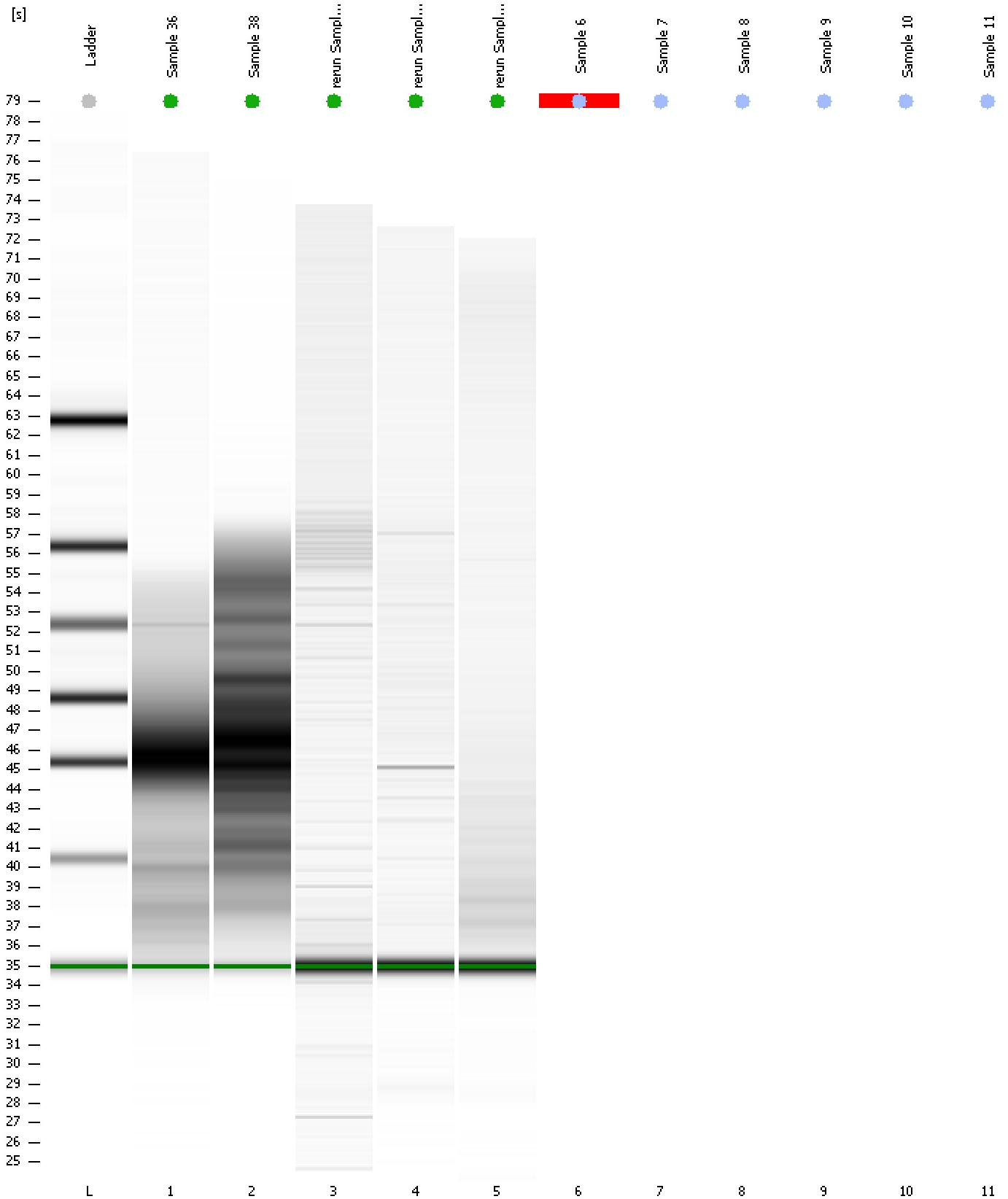
Overall Results for sample 6 : Sample 6

Result Flagging Color: Result Flagging Label: All Other Samples

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
Modified: 1/21/2015 2:48:21 PM

Gel Image



Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
Modified: 1/21/2015 2:48:21 PM

Invalid Samples

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: C:\...ents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad

Created: 1/21/2015 2:28:14 PM
 Modified: 1/21/2015 2:48:21 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		1/21/2015 2:48:18 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-21\2015-01-21_004.xad)		Instrument	Run		1/21/2015 2:28:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/21/2015 2:28:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/21/2015 2:28:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/21/2015 2:28:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/21/2015 2:28:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/21/2015 2:28:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/21/2015 2:28:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1