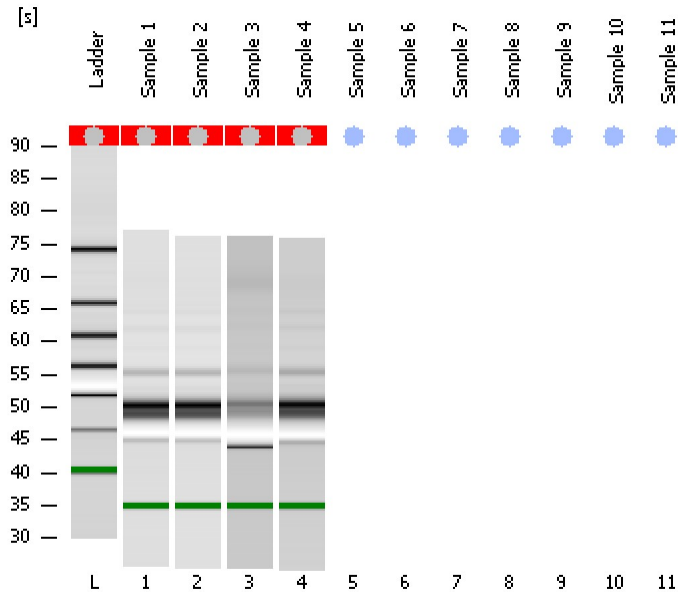


Assay Class: Small RNA  
Data Path: C:\...ttings\Bioanalyzer\2013-08-12\2013-08-12\2013-08-12\_001.xad

Created: 8/12/2013 11:47:40 AM  
Modified: 8/12/2013 12:06:13 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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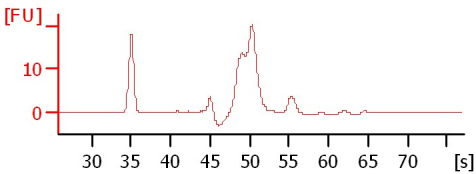
#### Chip Information:

Chip Lot #:

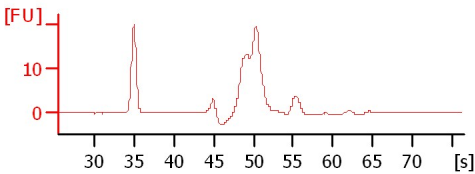
Reagent Kit Lot #:

Chip Comments:

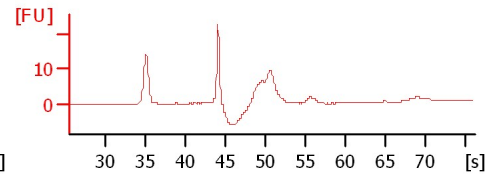
**Sample 1**  
Number of Peaks: 4



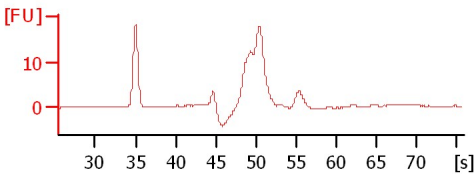
**Sample 2**  
Number of Peaks: 4



**Sample 3**  
Number of Peaks: 3



**Sample 4**  
Number of Peaks: 4



Assay Class: Small RNA  
 Data Path: C:\...ttings\Bioanalyzer\2013-08-12\2013-08-12\2013-08-12\_001.xad

Created: 8/12/2013 11:47:40 AM  
 Modified: 8/12/2013 12:06:13 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	Number of Peaks: 4	Grey
Sample 2		✓	Number of Peaks: 4	Grey
Sample 3		✓	Number of Peaks: 3	Grey
Sample 4		✓	Number of Peaks: 4	Grey
Sample 5				Blue
Sample 6				Blue
Sample 7				Blue
Sample 8				Blue
Sample 9				Blue
Sample 10				Blue
Sample 11				Blue
Ladder		✓	Number of Peaks: 4	Grey

**Chip Lot #** **Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Small RNA  
Data Path: C:\...ttings\Bioanalyzer\2013-08-12\2013-08-12\2013-08-12\_001.xad

Created: 8/12/2013 11:47:40 AM  
Modified: 8/12/2013 12:06:13 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/ $\mu$ l] : 2500

Lower Marker Concentration [pg/ $\mu$ l] : 500

Upper Marker Concentration [pg/ $\mu$ 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

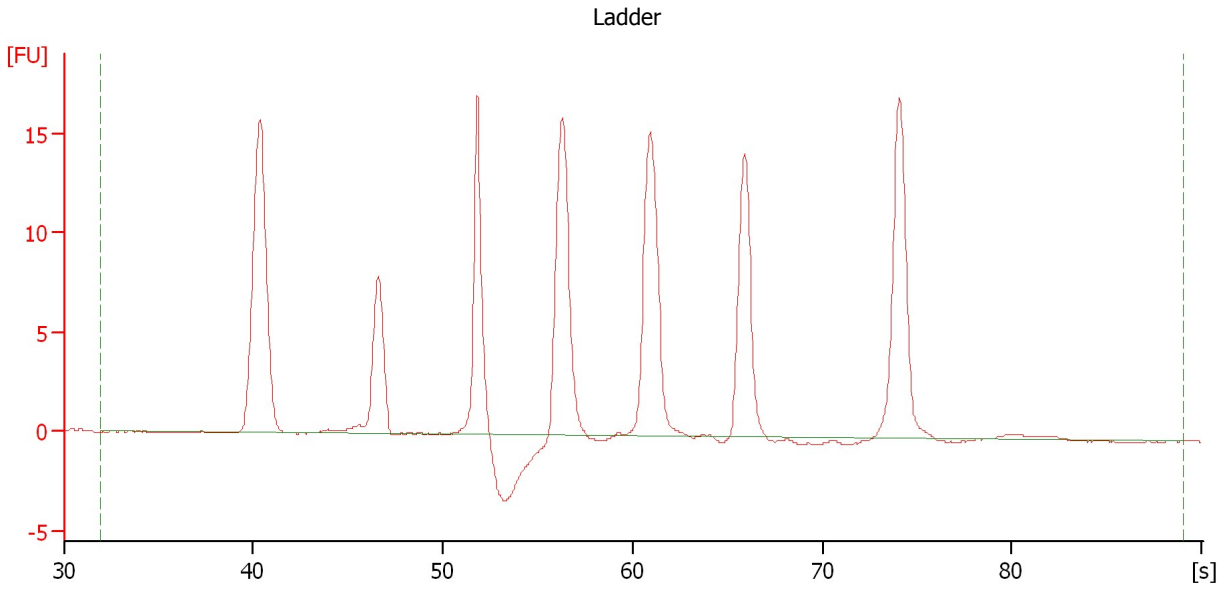
### Ladder

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

Assay Class: Small RNA  
Data Path: C:\...ttings\Bioanalyzer\2013-08-12\2013-08-12\2013-08-12\_001.xad

Created: 8/12/2013 11:47:40 AM  
Modified: 8/12/2013 12:06:13 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Result Flagging Color:

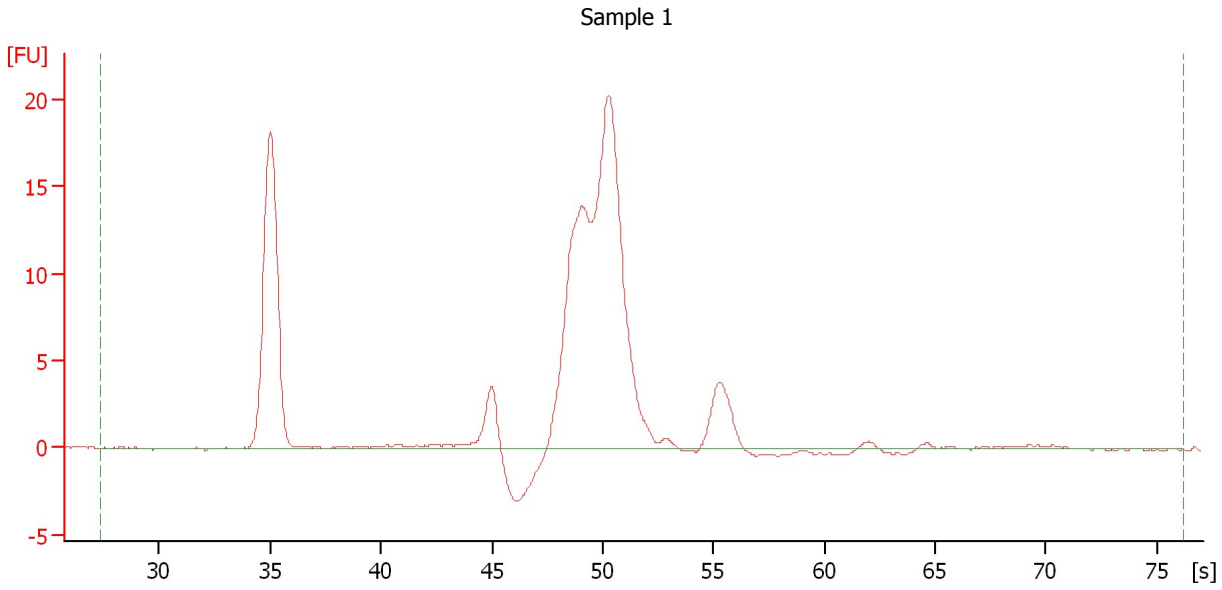
Result Flagging Label:

Number of Peaks: 4

Assay Class: Small RNA  
Data Path: C:\...ttings\Bioanalyzer\2013-08-12\2013-08-12\2013-08-12\_001.xad

Created: 8/12/2013 11:47:40 AM  
Modified: 8/12/2013 12:06:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sample 1**

Result Flagging Color:

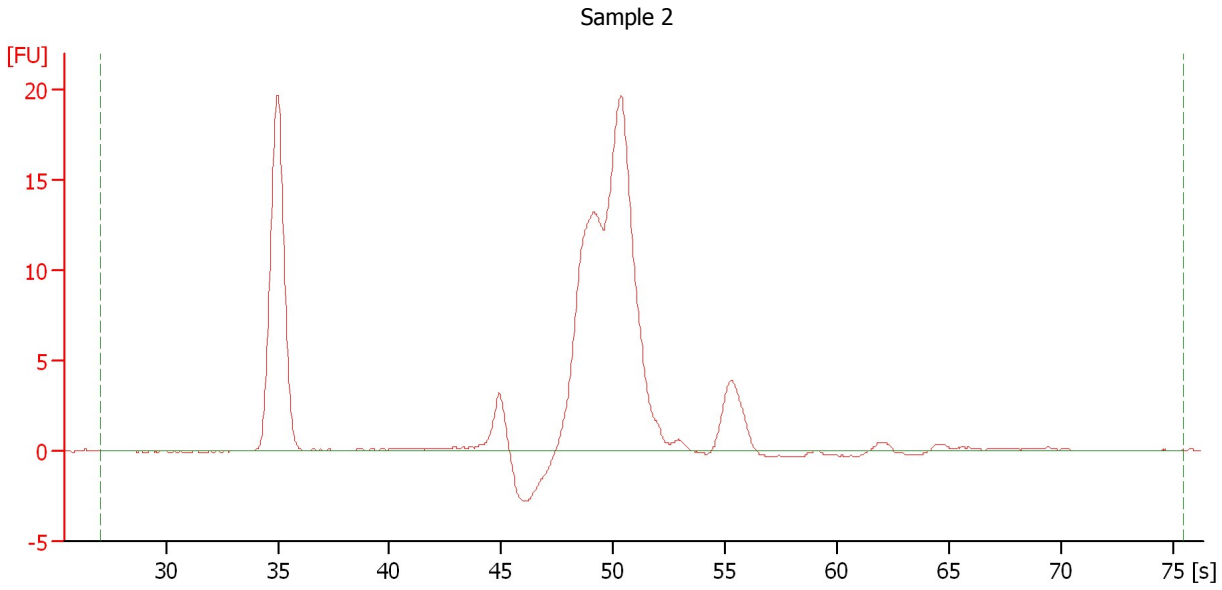
Result Flagging Label:

Number of Peaks: 4

Assay Class: Small RNA  
Data Path: C:\...ttings\Bioanalyzer\2013-08-12\2013-08-12\2013-08-12\_001.xad

Created: 8/12/2013 11:47:40 AM  
Modified: 8/12/2013 12:06:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 2**

Result Flagging Color:

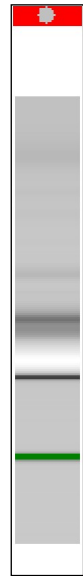
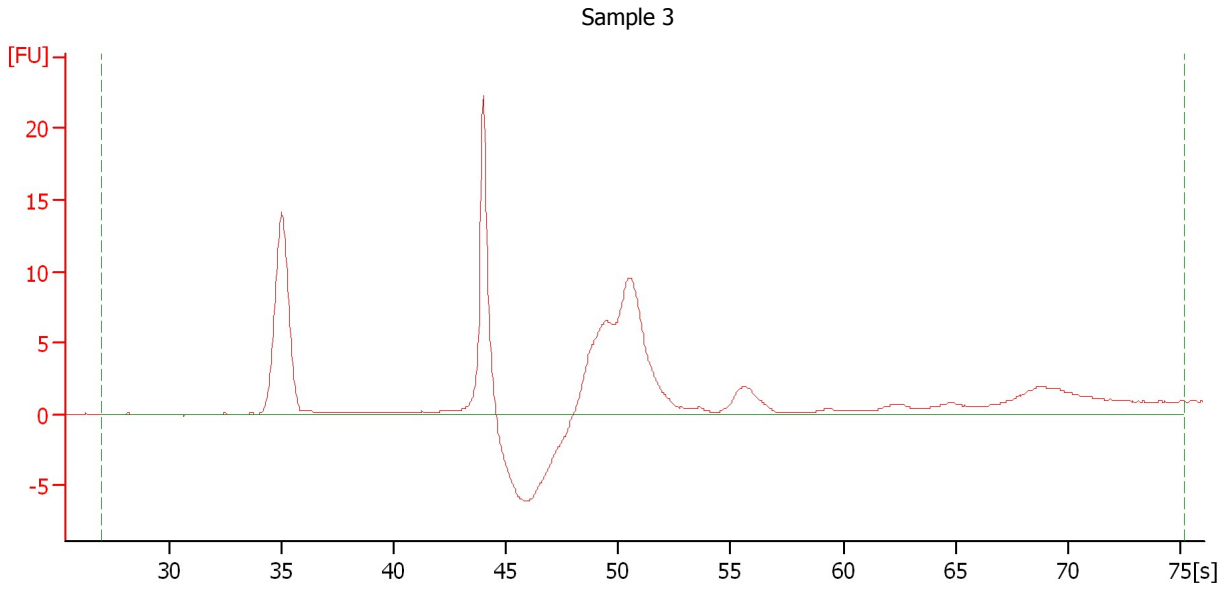
Result Flagging Label:

Number of Peaks: 4

Assay Class: Small RNA  
Data Path: C:\...ttings\Bioanalyzer\2013-08-12\2013-08-12\2013-08-12\_001.xad

Created: 8/12/2013 11:47:40 AM  
Modified: 8/12/2013 12:06:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 3**

Result Flagging Color:

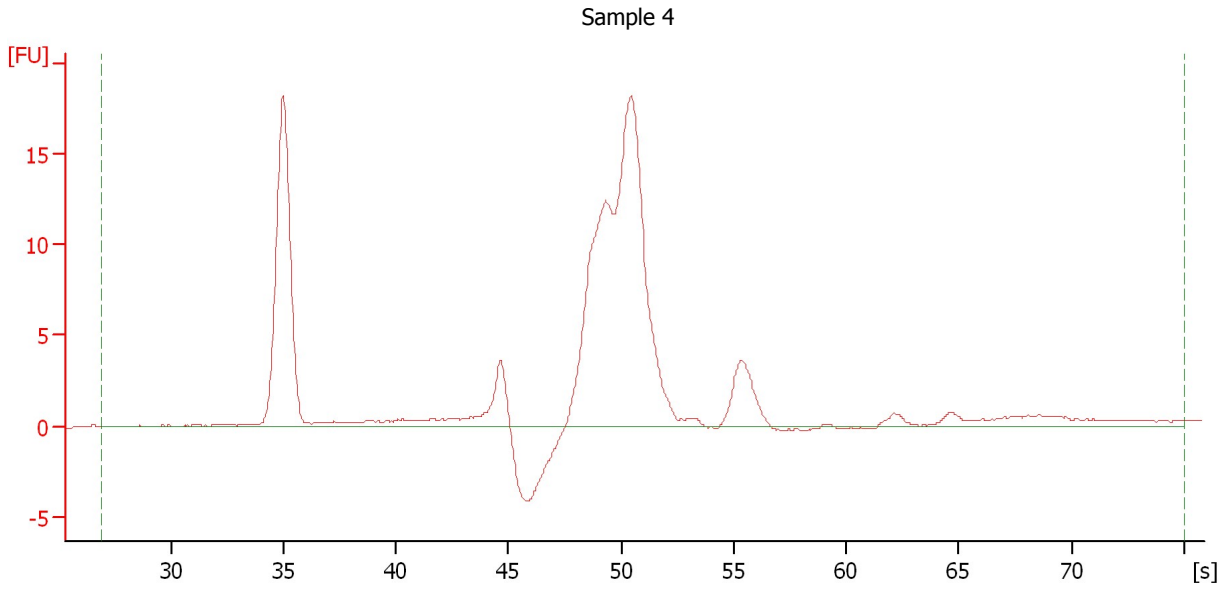
Result Flagging Label:

Number of Peaks: 3

Assay Class: Small RNA  
Data Path: C:\...ttings\Bioanalyzer\2013-08-12\2013-08-12\2013-08-12\_001.xad

Created: 8/12/2013 11:47:40 AM  
Modified: 8/12/2013 12:06:13 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sample 4**

Result Flagging Color:

Result Flagging Label:

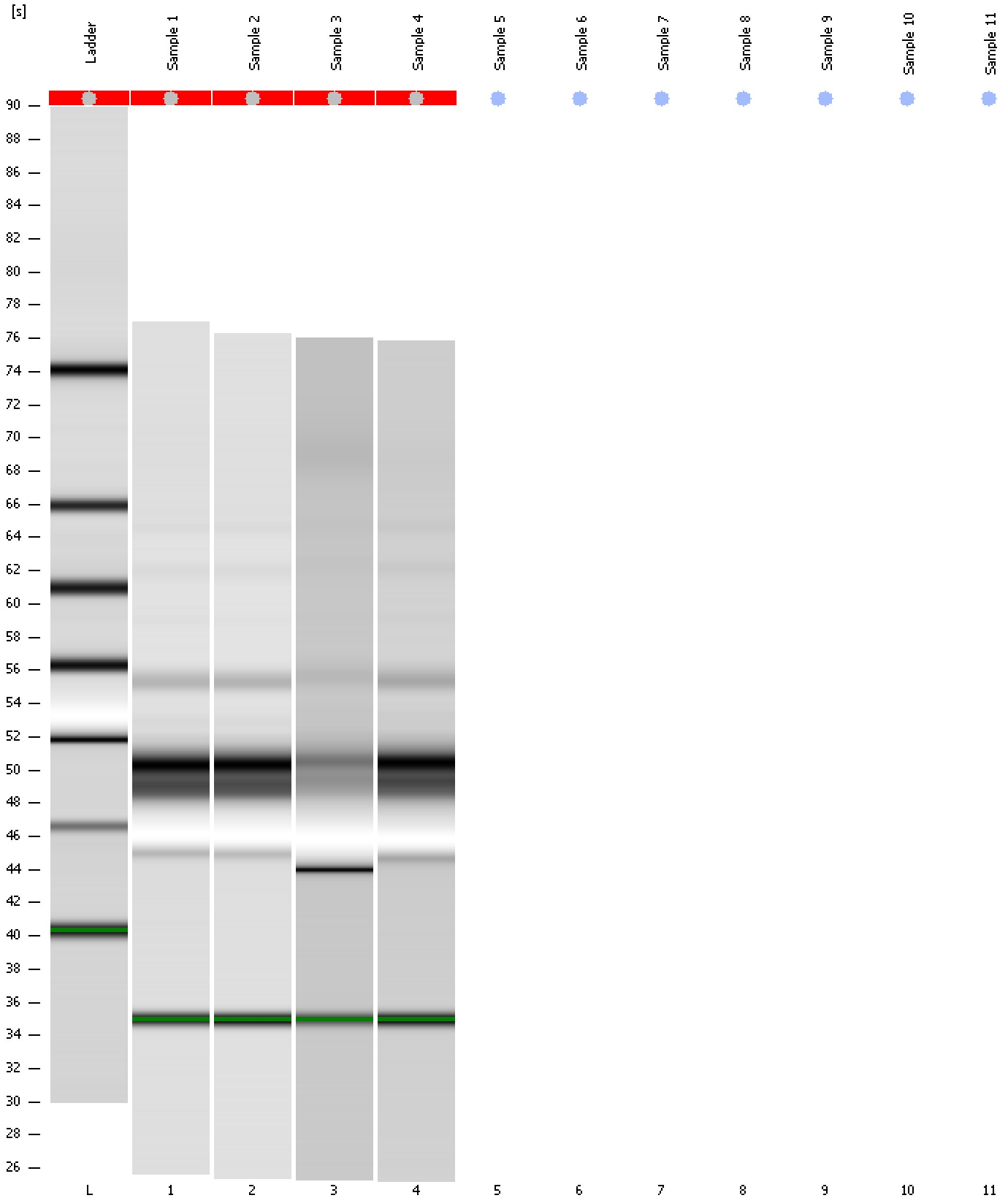
Number of Peaks: 4



Assay Class: Small RNA  
Data Path: C:\...ttings\Bioanalyzer\2013-08-12\2013-08-12\2013-08-12\_001.xad

Created: 8/12/2013 11:47:40 AM  
Modified: 8/12/2013 12:06:13 PM

**Gel Image**



Assay Class: Small RNA  
Data Path: C:\...ttings\Bioanalyzer\2013-08-12\2013-08-12\2013-08-12\_001.xad

Created: 8/12/2013 11:47:40 AM  
Modified: 8/12/2013 12:06:13 PM

**Invalid Samples**

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

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:\...ttings\Bioanalyzer\2013-08-12\2013-08-12\2013-08-12\_001.xad

Created: 8/12/2013 11:47:40 AM  
 Modified: 8/12/2013 12:06:13 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 5)		Instrument	Run		8/12/2013 12:06:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-12\2013-08-12\2013-08-12_001.xad)		Instrument	Run		8/12/2013 11:47:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/12/2013 11:47:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/12/2013 11:47:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/12/2013 11:47:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/12/2013 11:47:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/12/2013 11:47:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/12/2013 11:47:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1