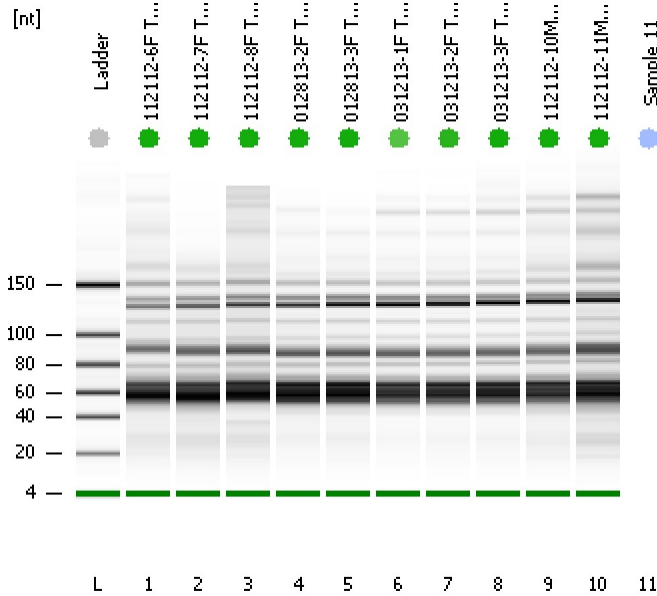


Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
Modified: 4/1/2013 5:47:23 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

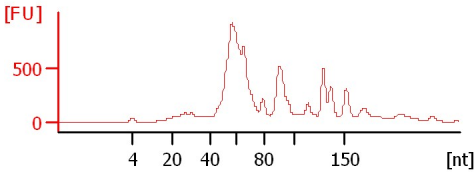
Assay Class: Small RNA
Version: 1.2
Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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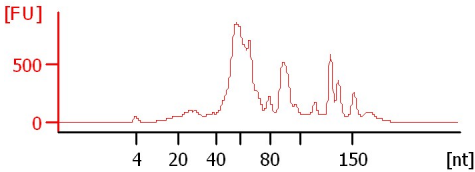
Chip Information:

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

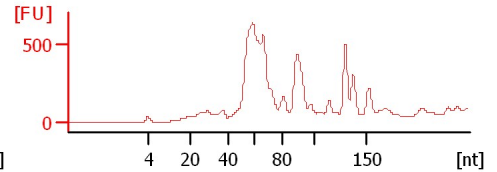
112112-6F Thymus
21 % miRNA; Concentration: 4130.30 pg/µl



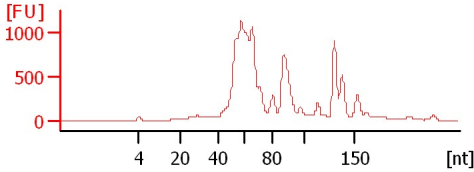
112112-7F Thymus
23 % miRNA; Concentration: 4735.90 pg/µl



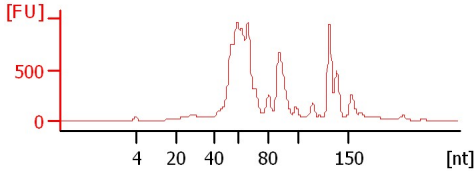
112112-8F Thymus
21 % miRNA; Concentration: 4491 pg/µl



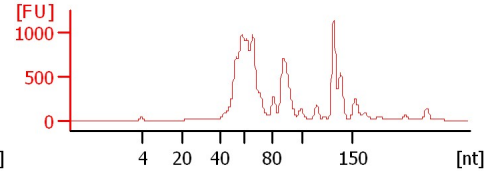
012813-2F Thymus
13 % miRNA; Concentration: 3055.20 pg/µl



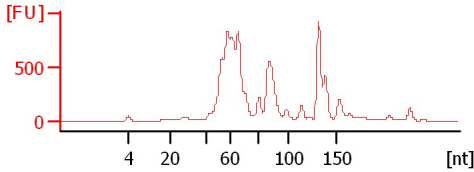
012813-3F Thymus
14 % miRNA; Concentration: 2983.50 pg/µl



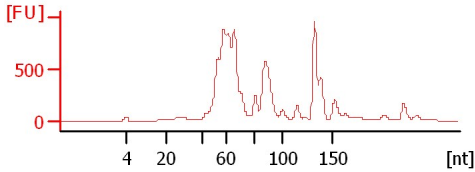
031213-1F Thymus
9 % miRNA; Concentration: 2073.10 pg/µl



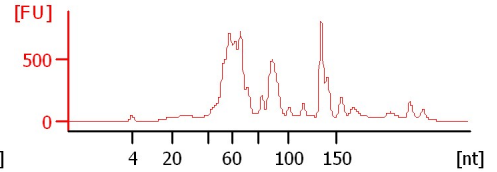
031213-2F Thymus
11 % miRNA; Concentration: 1825.20 pg/µl



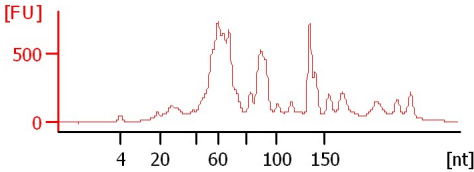
031213-3F Thymus
12 % miRNA; Concentration: 2117.80 pg/µl



112112-10M Thymus
16 % miRNA; Concentration: 2842.20 pg/µl















112112-11M Thymus
23 % miRNA; Concentration: 4844.60 pg/µl



Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
 Modified: 4/1/2013 5:47:23 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
112112-6F Thymus		✓	21 % miRNA; Concentration: 4130.30 pg/μl	
112112-7F Thymus		✓	23 % miRNA; Concentration: 4735.90 pg/μl	
112112-8F Thymus		✓	21 % miRNA; Concentration: 4491 pg/μl	
012813-2F Thymus		✓	13 % miRNA; Concentration: 3055.20 pg/μl	
012813-3F Thymus		✓	14 % miRNA; Concentration: 2983.50 pg/μl	
031213-1F Thymus		✓	9 % miRNA; Concentration: 2073.10 pg/μl	
031213-2F Thymus		✓	11 % miRNA; Concentration: 1825.20 pg/μl	
031213-3F Thymus		✓	12 % miRNA; Concentration: 2117.80 pg/μl	
112112-10M Thymus		✓	16 % miRNA; Concentration: 2842.20 pg/μl	
112112-11M Thymus		✓	23 % miRNA; Concentration: 4844.60 pg/μl	
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\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
Modified: 4/1/2013 5:47:23 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

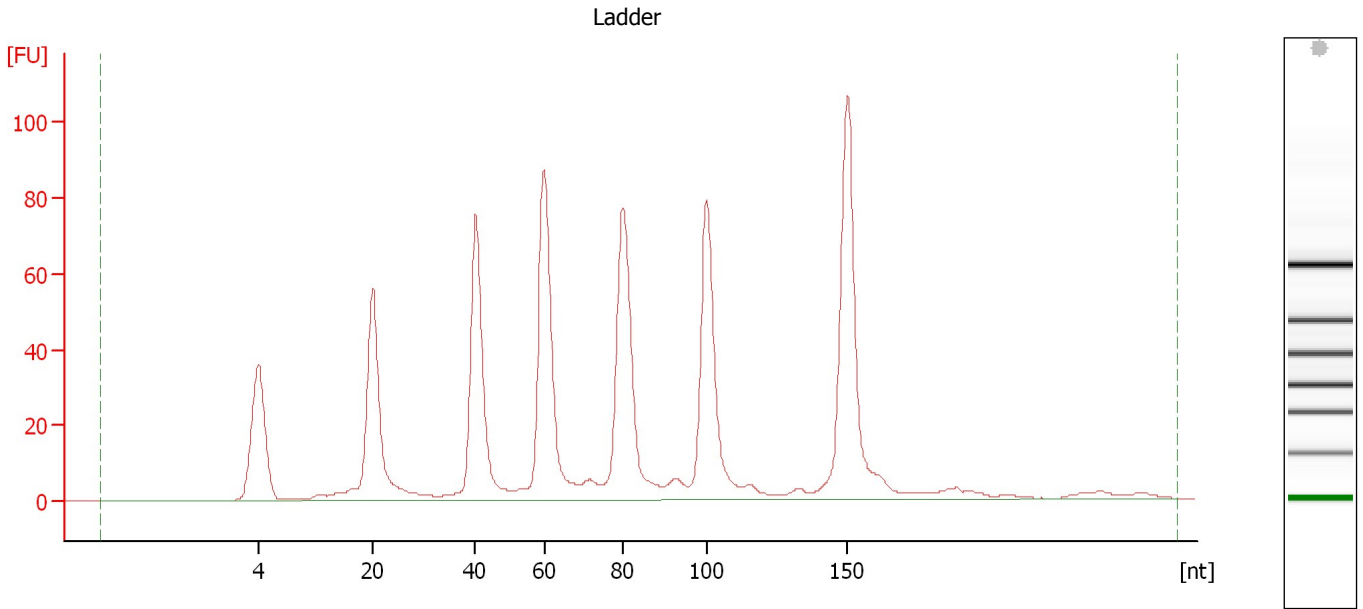
Ladder

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\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
Modified: 4/1/2013 5:47:23 PM

Electropherogram Summary



Overall Results for Ladder

Result Flagging Color:

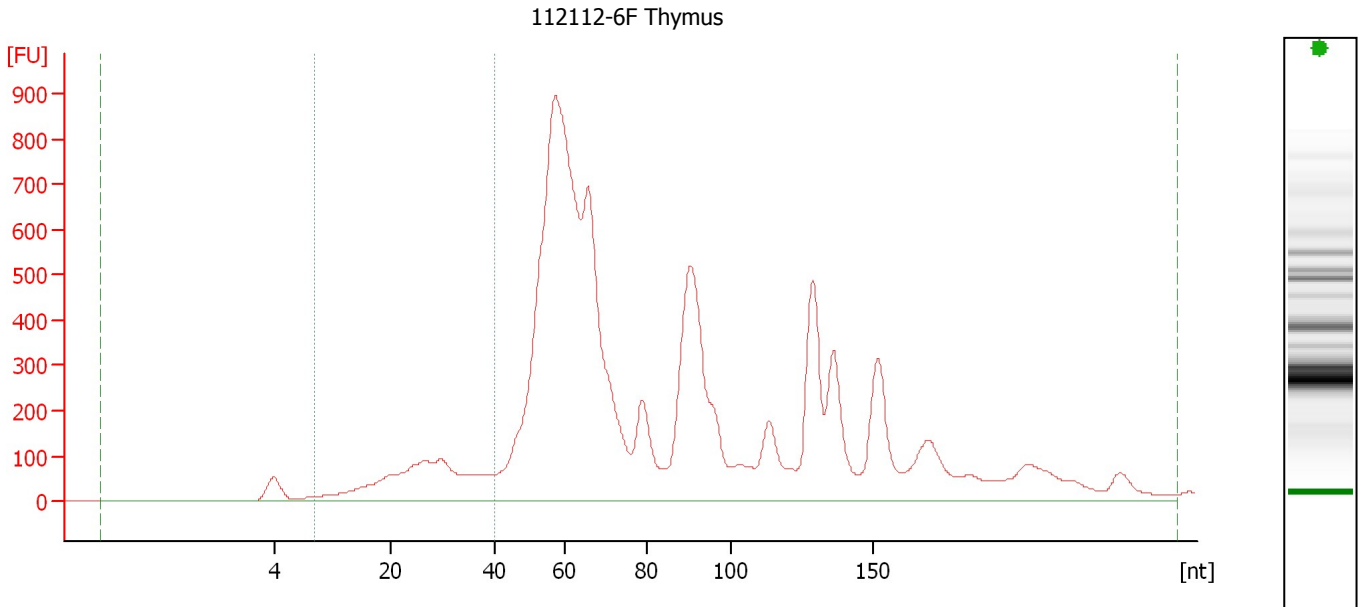
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
 Modified: 4/1/2013 5:47:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 112112-6F Thymus

Small RNA Concentration [pg/μl]:	19,683.3	Result Flagging Color:	
miRNA Concentration [pg/μl]:	4,130.3	Result Flagging Label:	21 % miRNA; Concentration: 4130.30 pg/μl
miRNA / Small RNA Ratio [%]:	21		

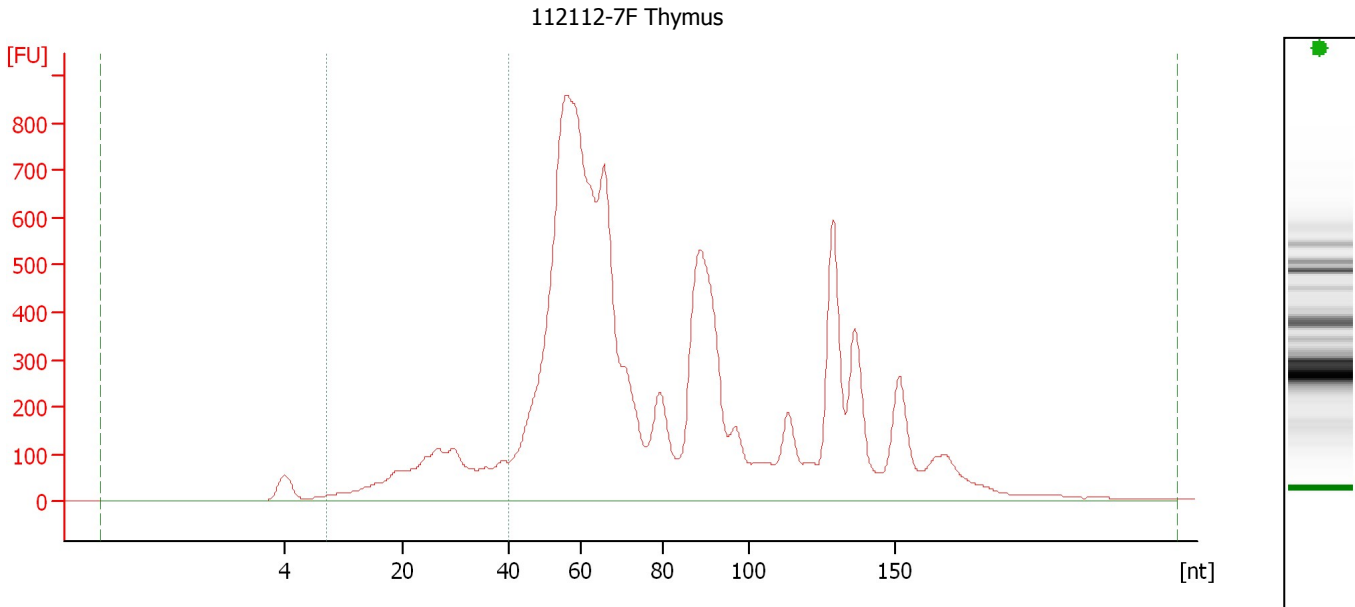
Region table for sample 1 : 112112-6F Thymus

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	256	92	54.5	19,683.3	100	
miRNA	10	40	27	28.0	4,130.3	21	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
 Modified: 4/1/2013 5:47:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 112112-7F Thymus

Small RNA Concentration [pg/μl]:	20,328.5	Result Flagging Color:	
miRNA Concentration [pg/μl]:	4,735.9	Result Flagging Label:	23 % miRNA; Concentration: 4735.90 pg/μl
miRNA / Small RNA Ratio [%]:	23		

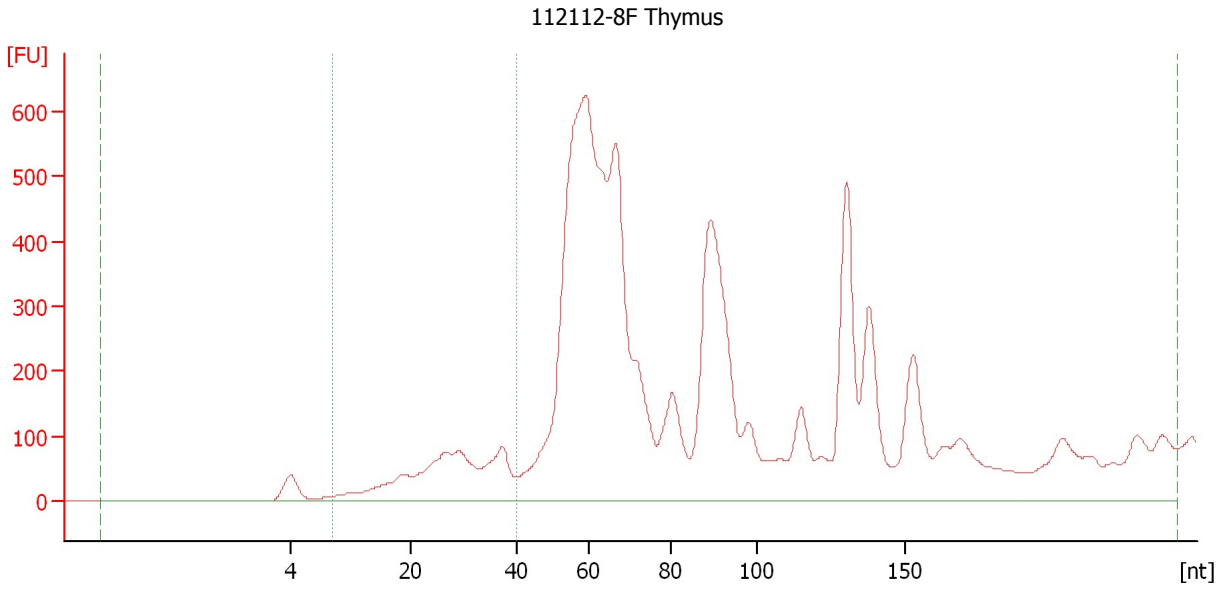
Region table for sample 2 : 112112-7F Thymus

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	247	83	49.0	20,328.5	100	
miRNA	10	40	27	28.1	4,735.9	23	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
 Modified: 4/1/2013 5:47:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 112112-8F Thymus

Small RNA Concentration [pg/μl]:	21,009.0	Result Flagging Color:	
miRNA Concentration [pg/μl]:	4,491.0	Result Flagging Label:	21 % miRNA; Concentration: 4491 pg/μl
miRNA / Small RNA Ratio [%]:	21		

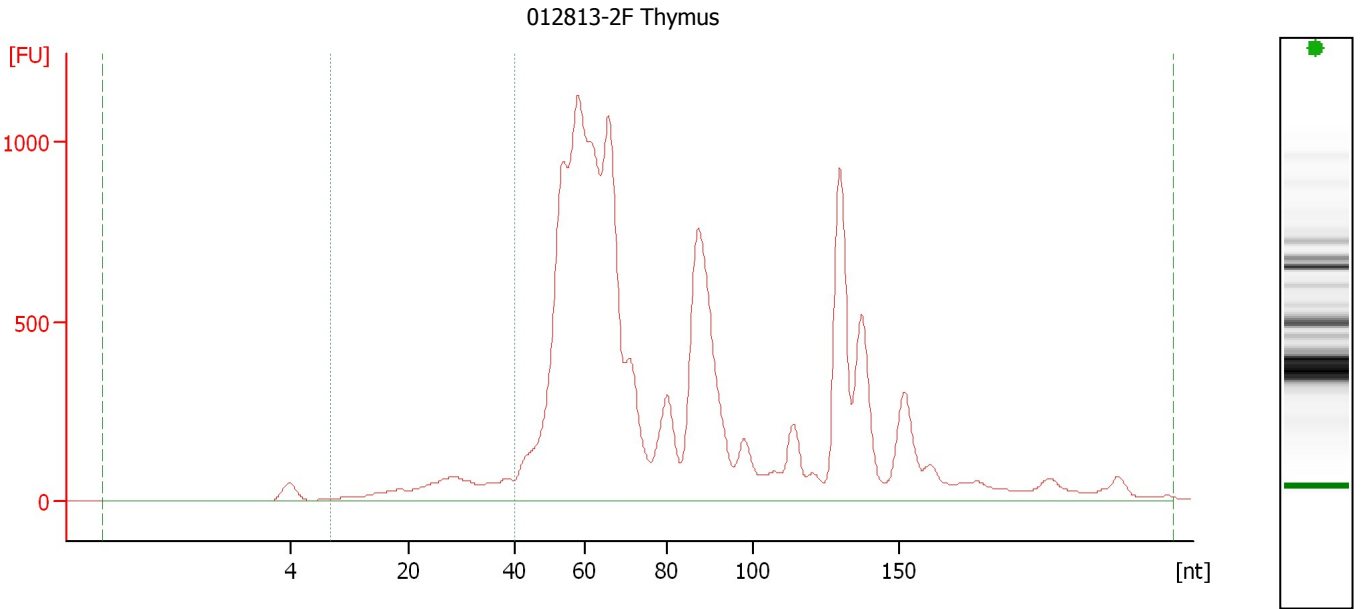
Region table for sample 3 : 112112-8F Thymus

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	243	100	55.6	21,009.0	100	
miRNA	10	40	27	27.6	4,491.0	21	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
 Modified: 4/1/2013 5:47:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 012813-2F Thymus

Small RNA Concentration [pg/μl]:	23,896.3	Result Flagging Color:	
miRNA Concentration [pg/μl]:	3,055.2	Result Flagging Label:	13 % miRNA; Concentration: 3055.20 pg/μl
miRNA / Small RNA Ratio [%]:	13		

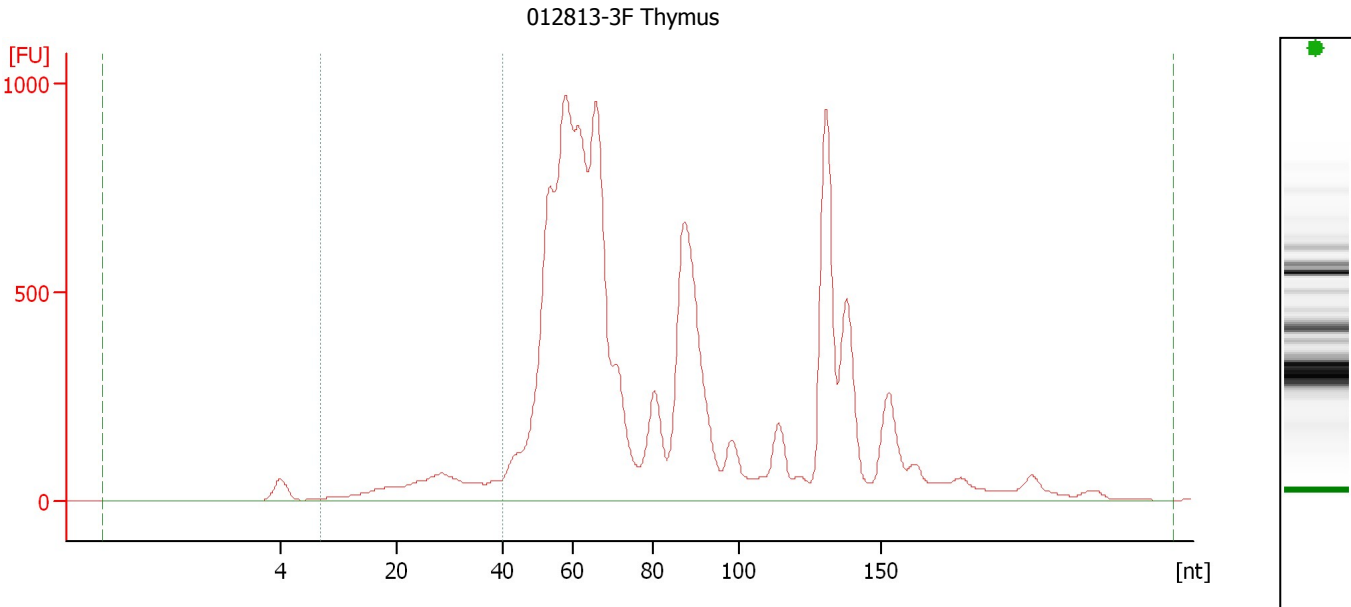
Region table for sample 4 : 012813-2F Thymus

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	244	87	48.4	23,896.3	100	
miRNA	10	40	27	28.2	3,055.2	13	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
 Modified: 4/1/2013 5:47:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 012813-3F Thymus

Small RNA Concentration [pg/μl]:	21,557.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	2,983.5	Result Flagging Label:	14 % miRNA; Concentration: 2983.50 pg/μl
miRNA / Small RNA Ratio [%]:	14		

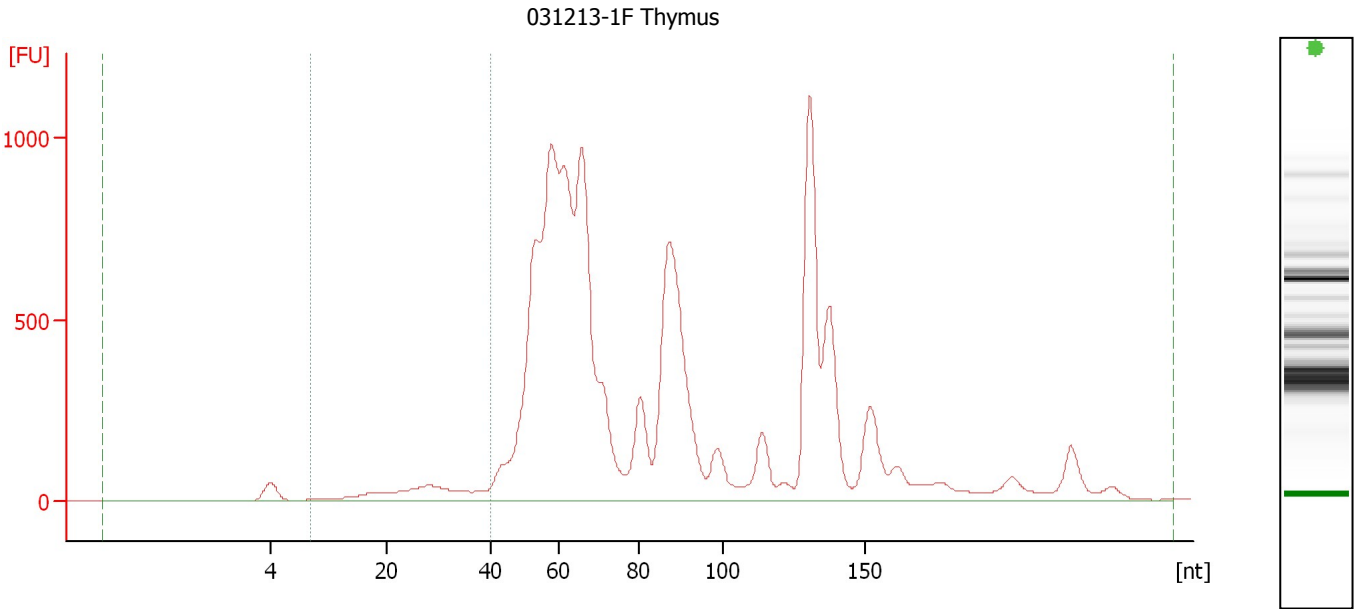
Region table for sample 5 : 012813-3F Thymus

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	251	87	47.1	21,557.1	100	
miRNA	10	40	27	28.2	2,983.5	14	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
 Modified: 4/1/2013 5:47:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 031213-1F Thymus

Small RNA Concentration [pg/μl]:	22,194.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	2,073.1	Result Flagging Label:	9 % miRNA; Concentration: 2073.10 pg/μl
miRNA / Small RNA Ratio [%]:	9		

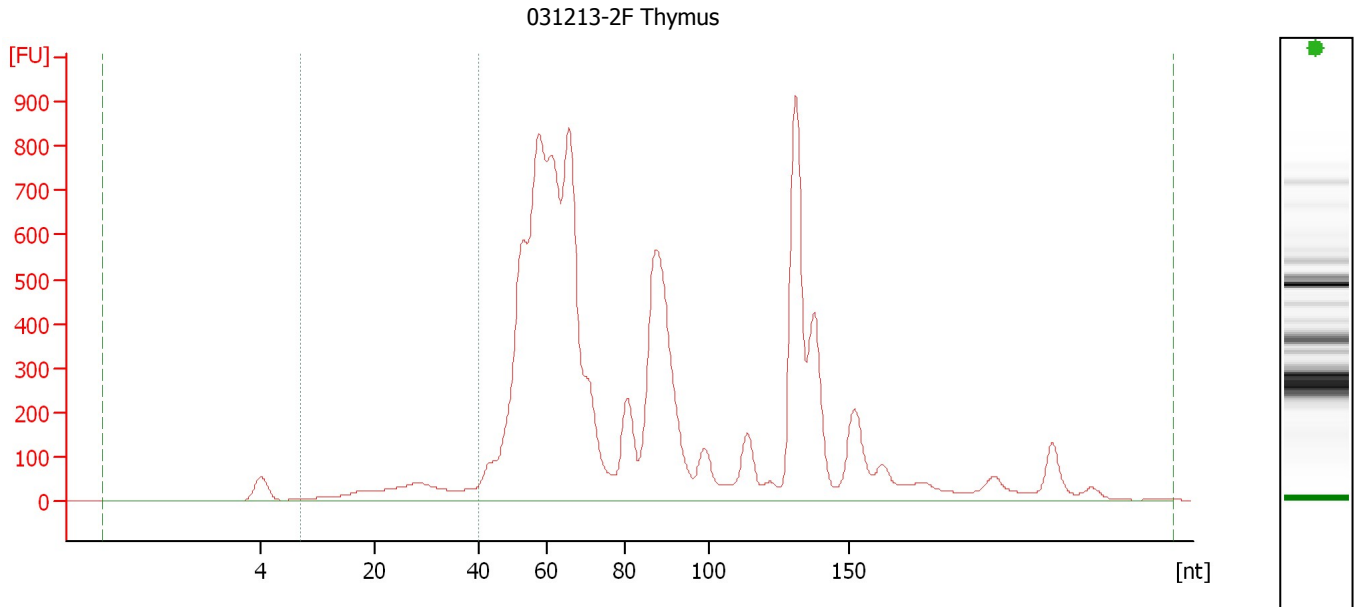
Region table for sample 6 : 031213-1F Thymus

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	258	92	49.3	22,194.1	100	
miRNA	10	40	27	28.4	2,073.1	9	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
 Modified: 4/1/2013 5:47:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 031213-2F Thymus

Small RNA Concentration [pg/μl]:	16,668.9	Result Flagging Color:	
miRNA Concentration [pg/μl]:	1,825.2	Result Flagging Label:	11 % miRNA; Concentration: 1825.20 pg/μl
miRNA / Small RNA Ratio [%]:	11		

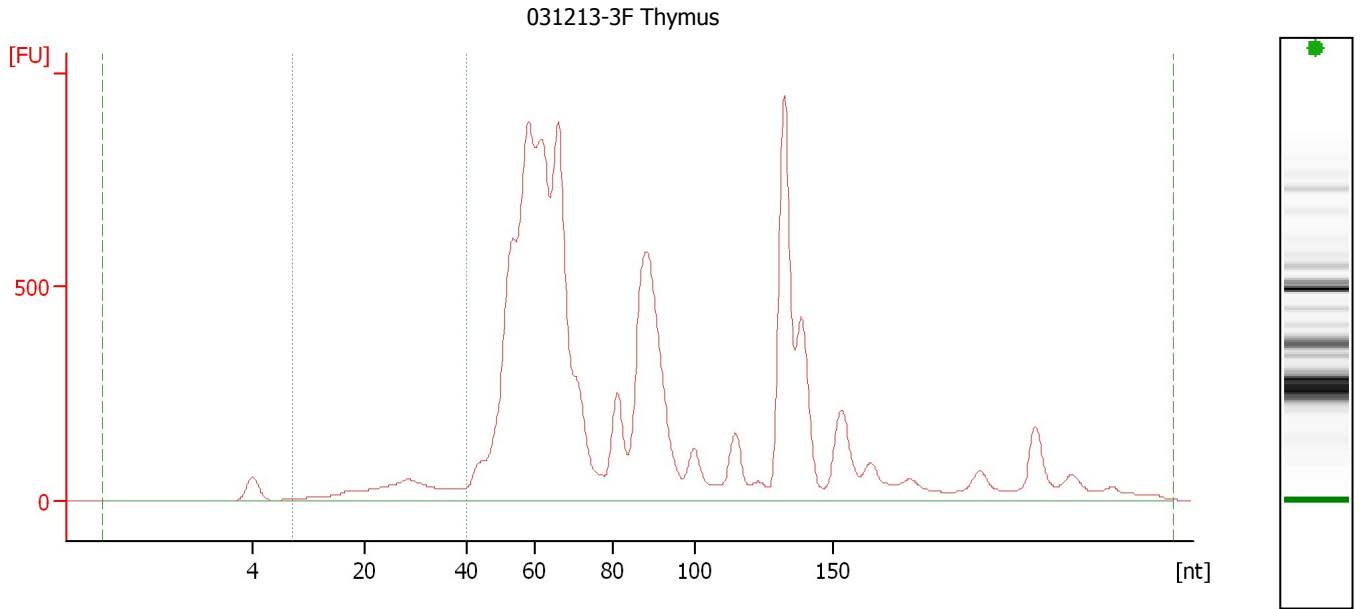
Region table for sample 7 : 031213-2F Thymus

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	266	91	50.2	16,668.9	100	
miRNA	10	40	26	29.1	1,825.2	11	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
 Modified: 4/1/2013 5:47:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 031213-3F Thymus

Small RNA Concentration [pg/μl]:	18,175.8	Result Flagging Color:	
miRNA Concentration [pg/μl]:	2,117.8	Result Flagging Label:	12 % miRNA; Concentration: 2117.80 pg/μl
miRNA / Small RNA Ratio [%]:	12		

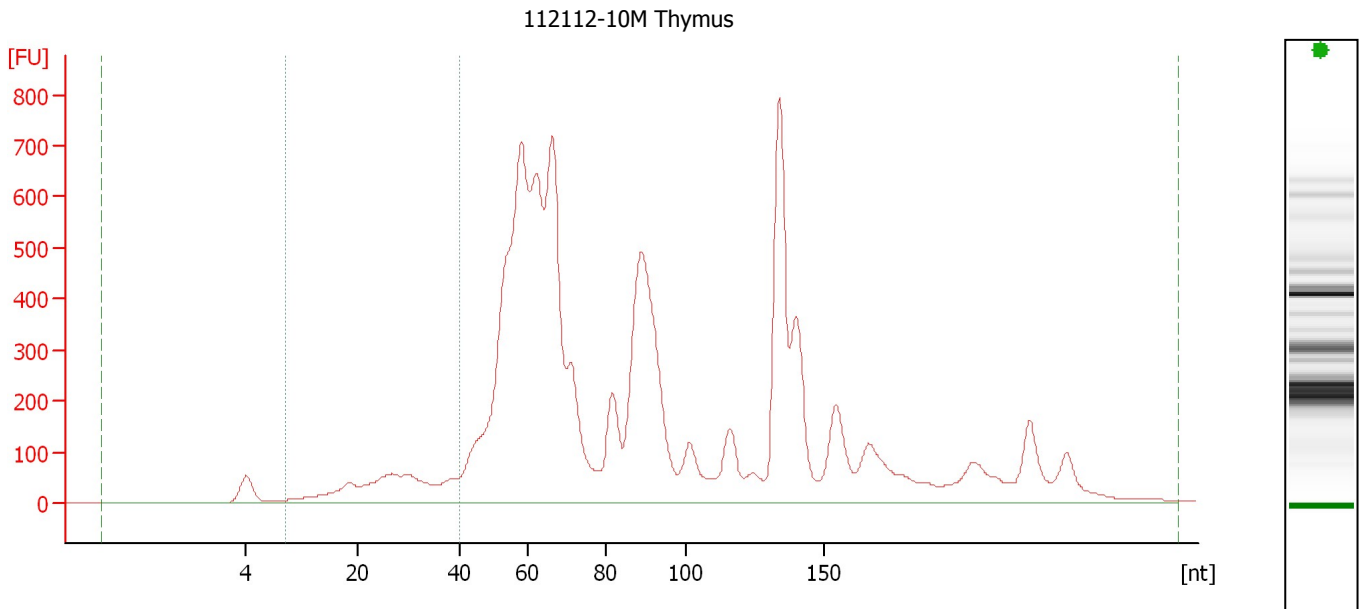
Region table for sample 8 : 031213-3F Thymus

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	272	95	53.5	18,175.8	100	
miRNA	10	40	27	28.2	2,117.8	12	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
 Modified: 4/1/2013 5:47:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 112112-10M Thymus

Small RNA Concentration [pg/μl]:	17,607.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	2,842.2	Result Flagging Label:	16 % miRNA; Concentration: 2842.20 pg/μl
miRNA / Small RNA Ratio [%]:	16		

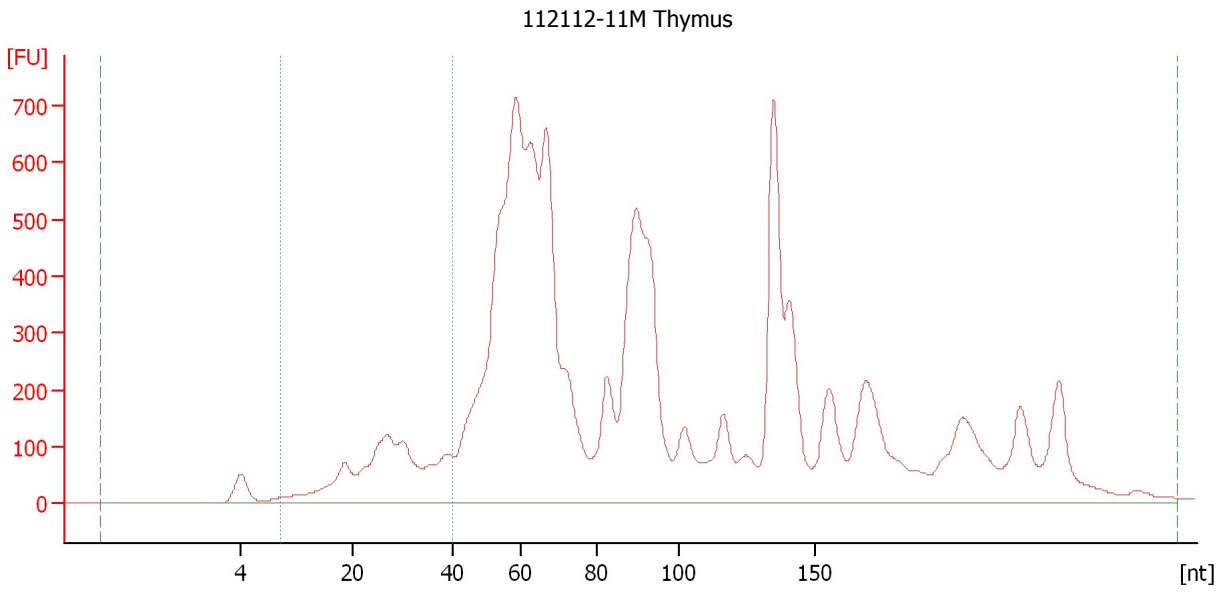
Region table for sample 9 : 112112-10M Thymus

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	278	99	54.9	17,607.1	100	
miRNA	10	40	27	28.7	2,842.2	16	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
 Modified: 4/1/2013 5:47:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 112112-11M Thymus

Small RNA Concentration [pg/μl]:	21,474.7	Result Flagging Color:	████████
miRNA Concentration [pg/μl]:	4,844.6	Result Flagging Label:	23 % miRNA; Concentration: 4844.60 pg/μl
miRNA / Small RNA Ratio [%]:	23		

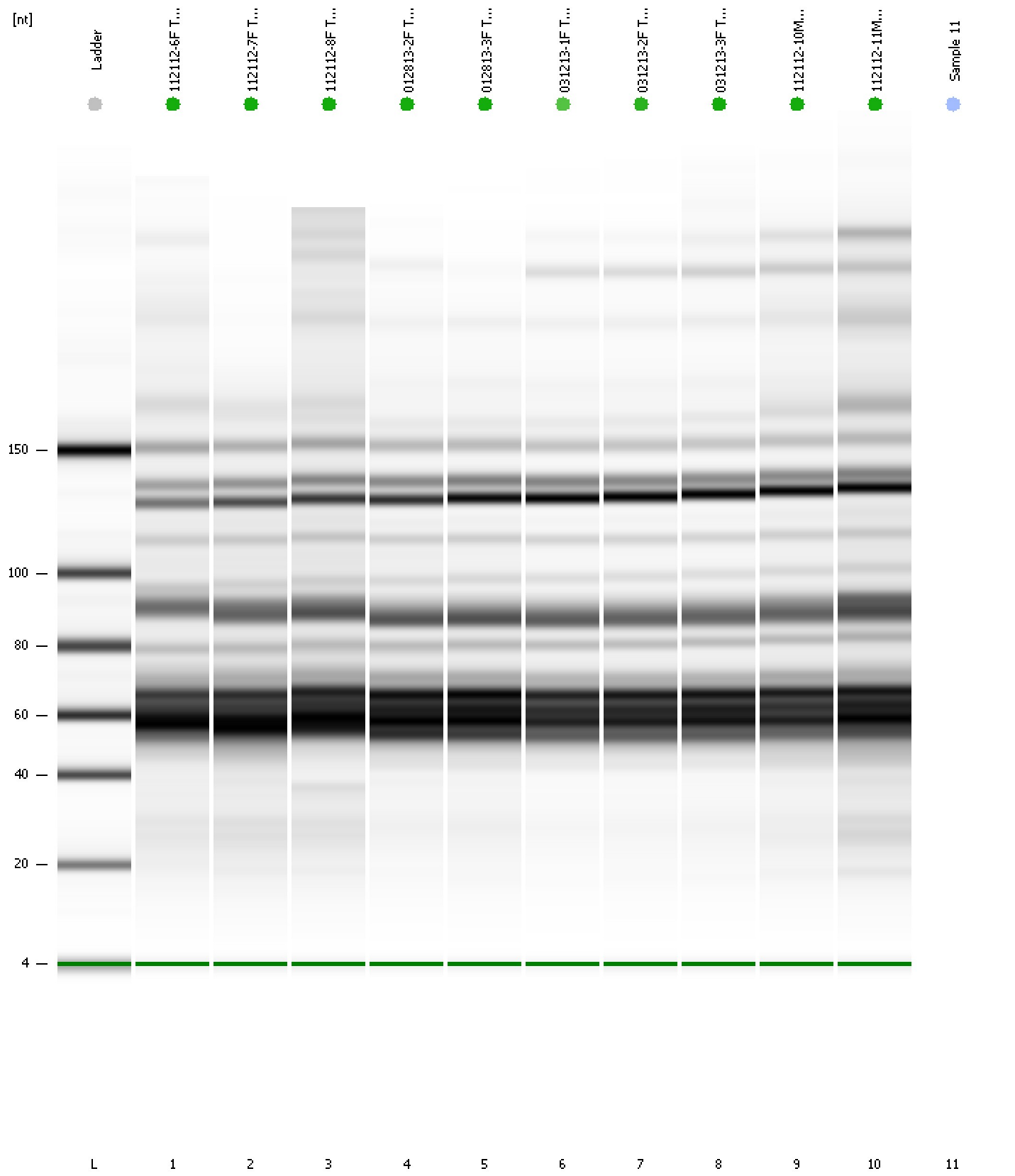
Region table for sample 10 : 112112-11M Thymus

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	282	105	57.7	21,474.7	100	████
miRNA	10	40	27	27.0	4,844.6	23	████

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
Modified: 4/1/2013 5:47:23 PM

Gel Image

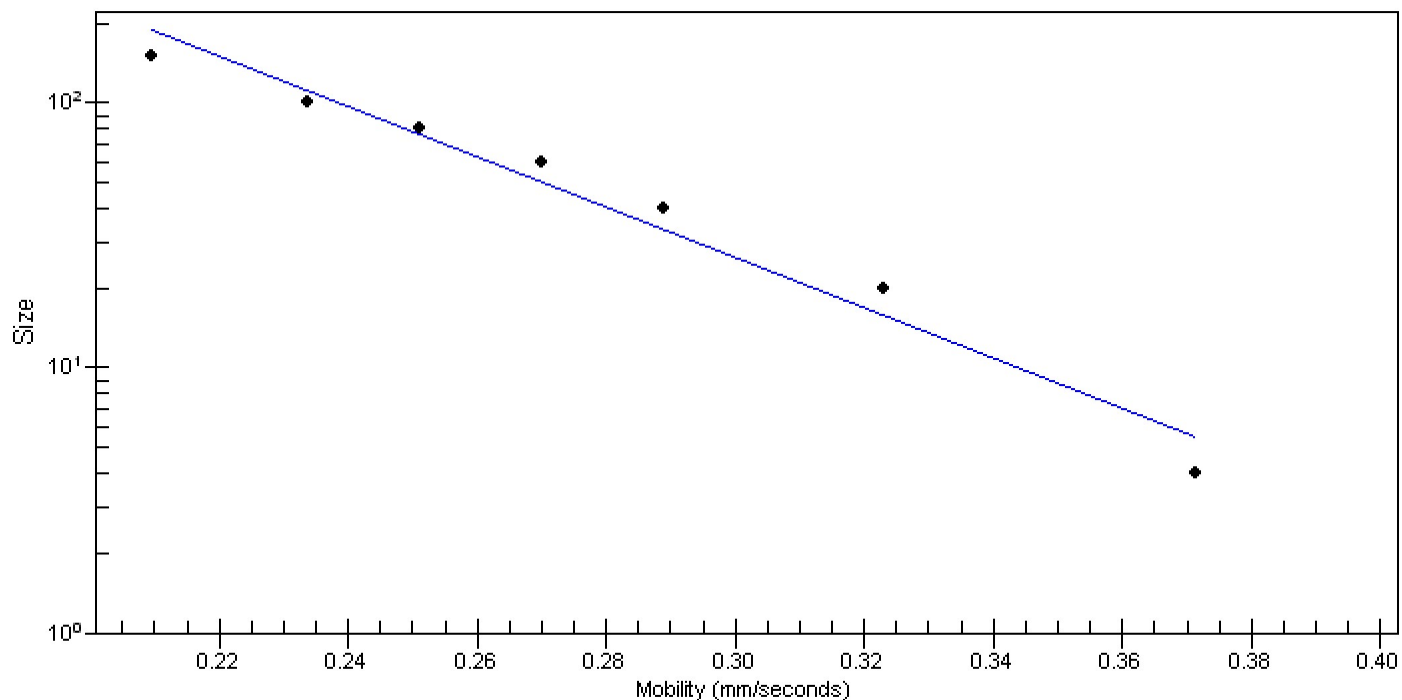


Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
Modified: 4/1/2013 5:47:23 PM

Curves

Standard Curve



Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
Modified: 4/1/2013 5:47:23 PM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad

Created: 4/1/2013 5:12:38 PM
 Modified: 4/1/2013 5:47:23 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		4/1/2013 5:42:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-01\2013-04-01_007.xad)		Instrument	Run		4/1/2013 5:12:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/1/2013 5:12:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/1/2013 5:12:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/1/2013 5:12:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/1/2013 5:12:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/1/2013 5:12:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/1/2013 5:12:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1