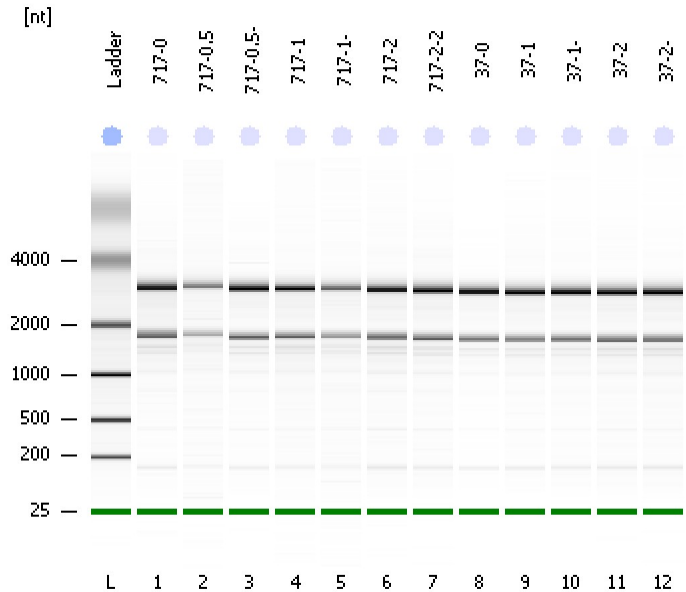


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 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\Plant RNA Nano.xsy

Assay Class: Plant RNA Nano

Version: 1.3

Assay Comments: Total RNA Analysis ng sensitivity (Plant)

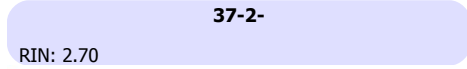
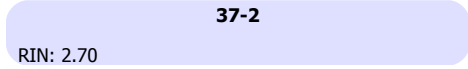
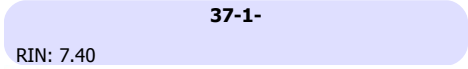
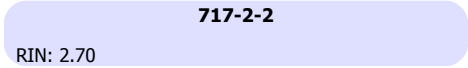
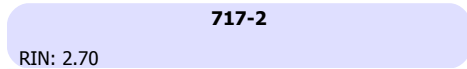
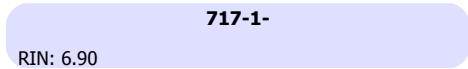
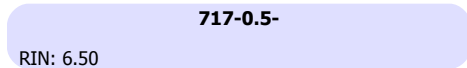
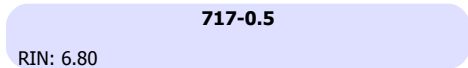
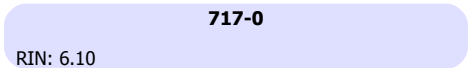
© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
 Modified: 2/24/2012 3:40:30 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
717-0		✓	RIN: 6.10	
717-0.5		✓	RIN: 6.80	
717-0.5-		✓	RIN: 6.50	
717-1		✓	RIN: 7.20	
717-1-		✓	RIN: 6.90	
717-2		✓	RIN: 2.70	
717-2-2		✓	RIN: 2.70	
37-0		✓	RIN: 2.70	
37-1		✓	RIN: 2.60	
37-1-		✓	RIN: 7.40	
37-2		✓	RIN: 2.70	
37-2-		✓	RIN: 2.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 19
End Analysis Time Range [s] : 69
Ladder Concentration [ng/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 19
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.2
Area Threshold : 0.1
Width Threshold [s] : 0.2
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

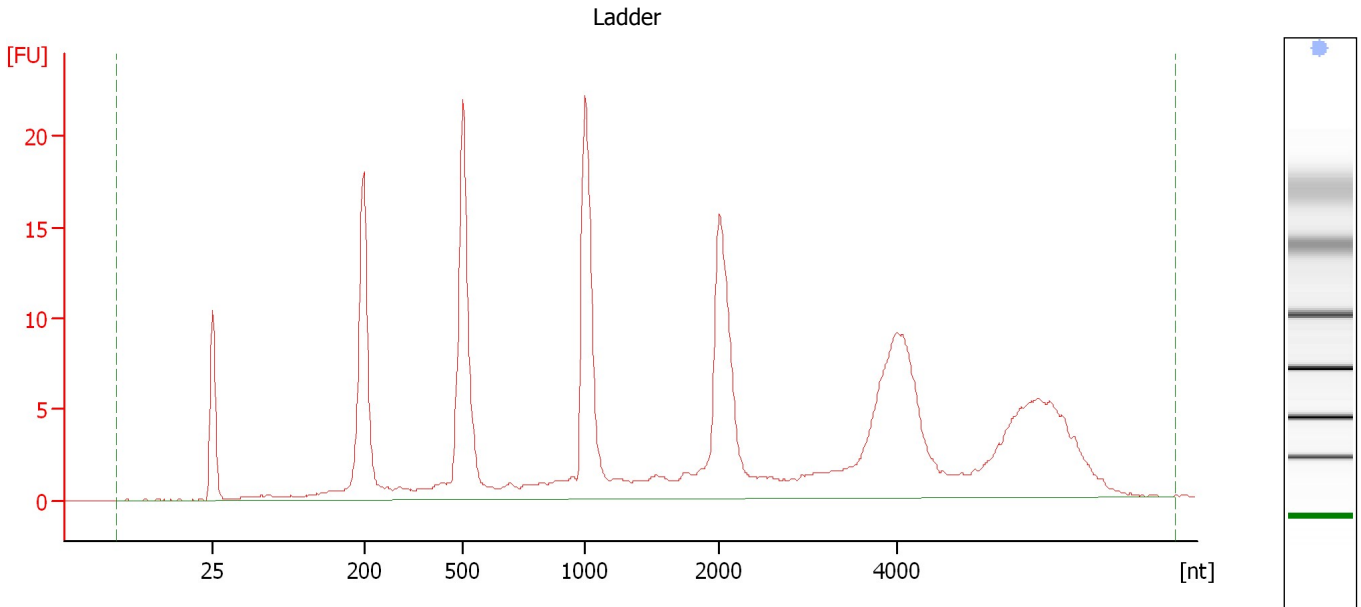
Ladder

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary



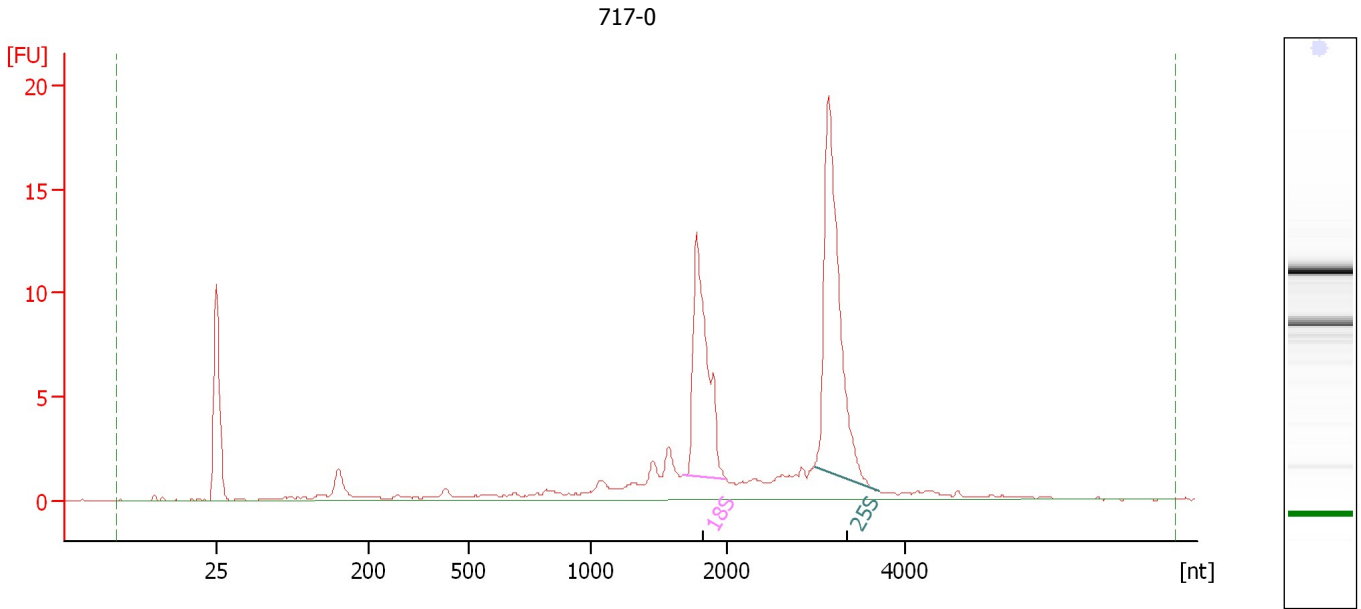
Overall Results for Ladder

RNA Area:	235.1	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 717-0

RNA Area: 93.6 RNA Integrity Number (RIN): 6.1 (B.02.08)
RNA Concentration: 60 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 6.10

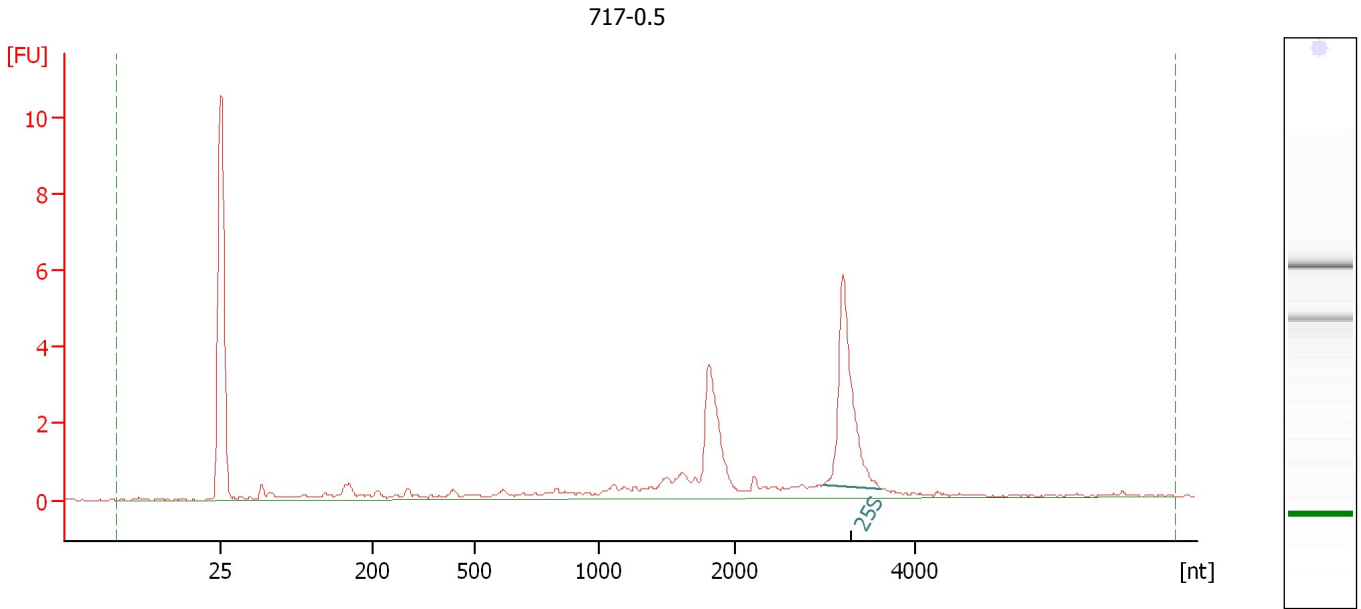
Fragment table for sample 1 : 717-0

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,680	1,999	18.7	19.9
25S	2,986	3,711	27.8	29.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 717-0.5

RNA Area:	27.3	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	17 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.80

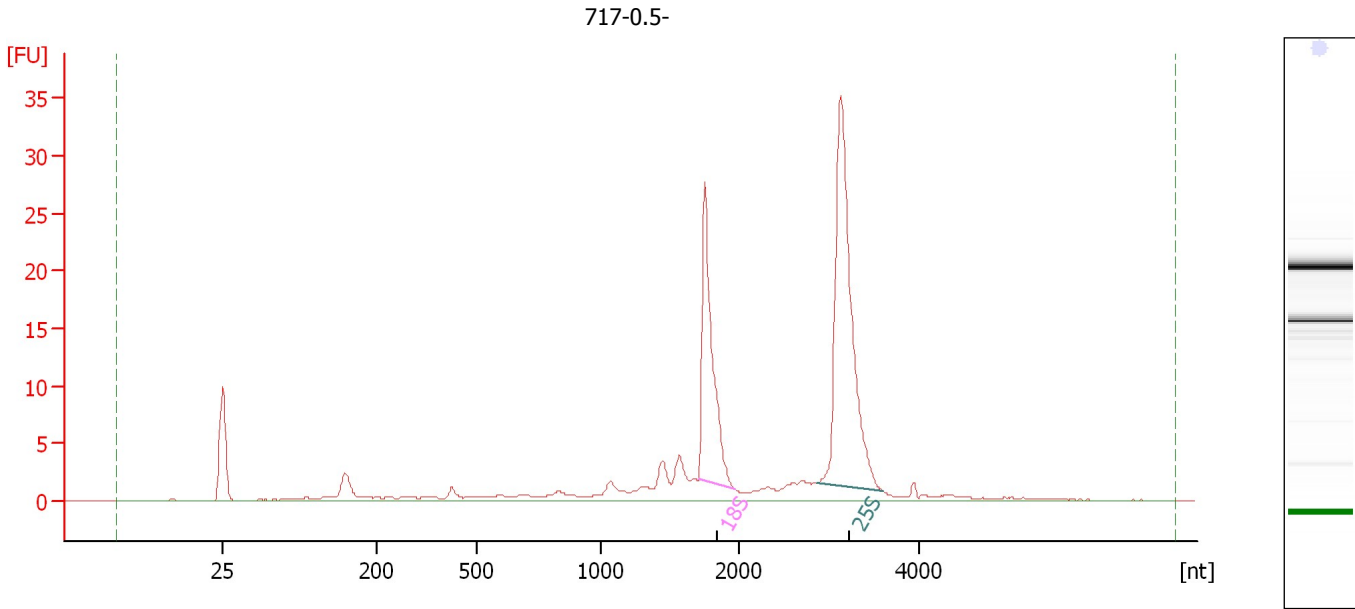
Fragment table for sample 2 : 717-0.5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,993	3,624	7.5	27.5

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
 Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 717-0.5-

RNA Area:	146.3	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	93 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.50

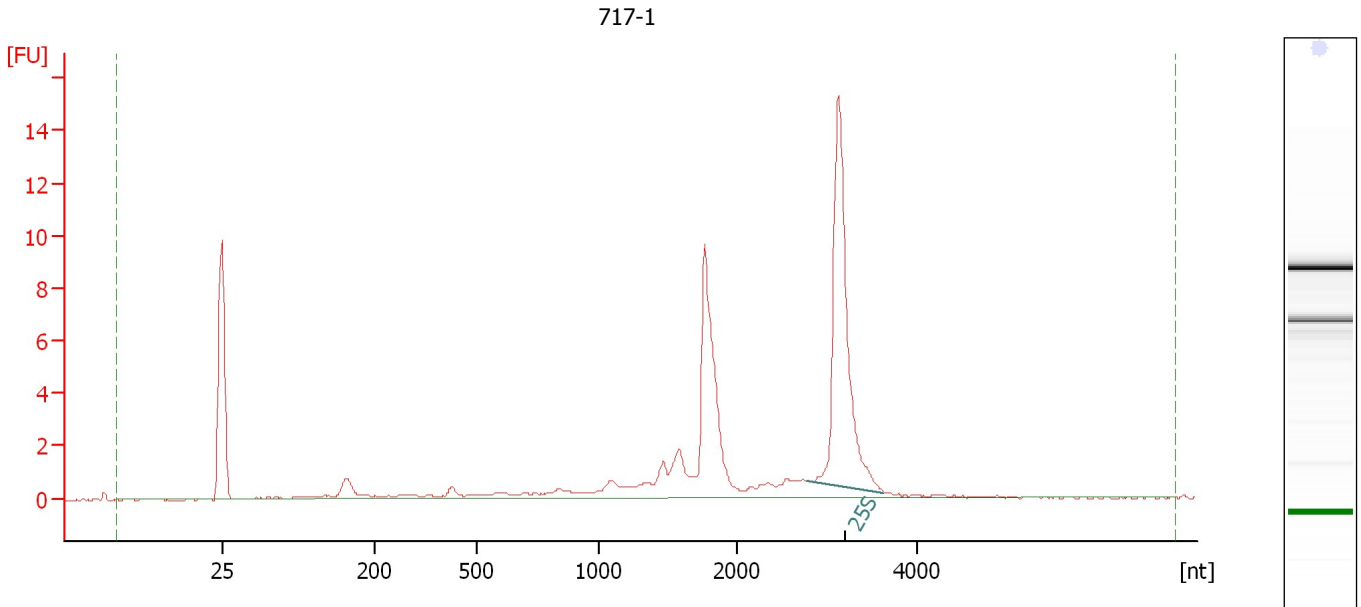
Fragment table for sample 3 : 717-0.5-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,706	1,977	29.5	20.1
25S	2,855	3,592	53.9	36.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 717-1

RNA Area:	57.1	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	36 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 7.20

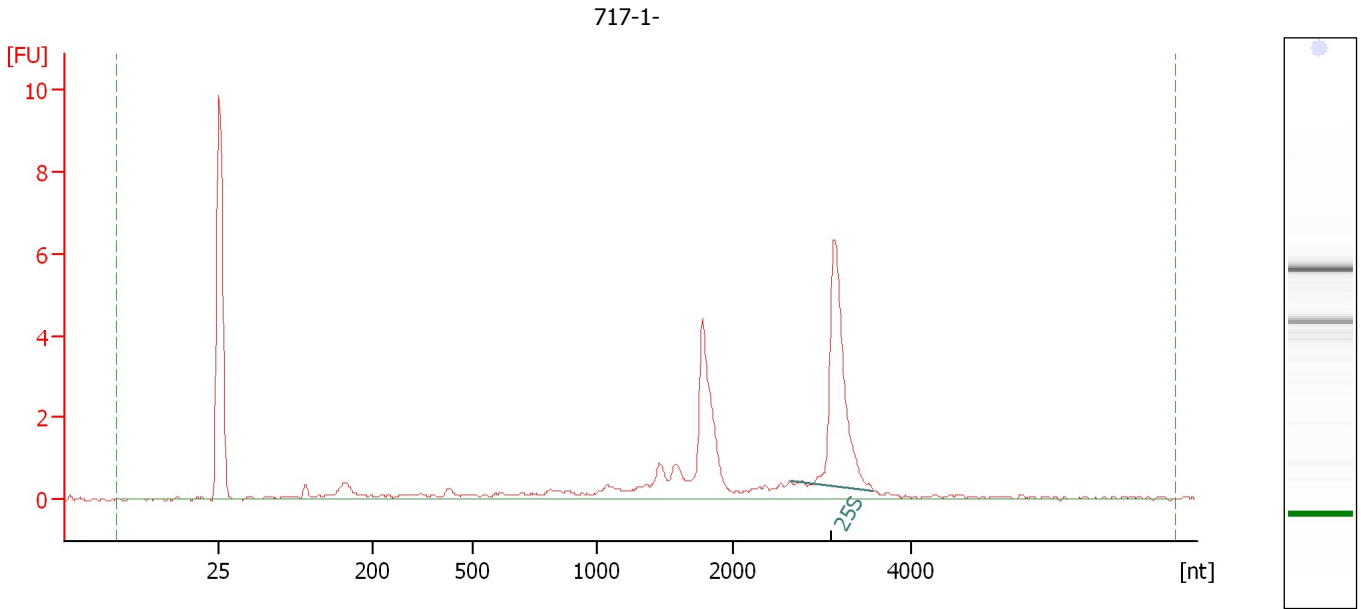
Fragment table for sample 4 : 717-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,772	3,619	20.4	35.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 717-1-

RNA Area: 29.9 RNA Integrity Number (RIN): 6.9 (B.02.08)
RNA Concentration: 19 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 6.90

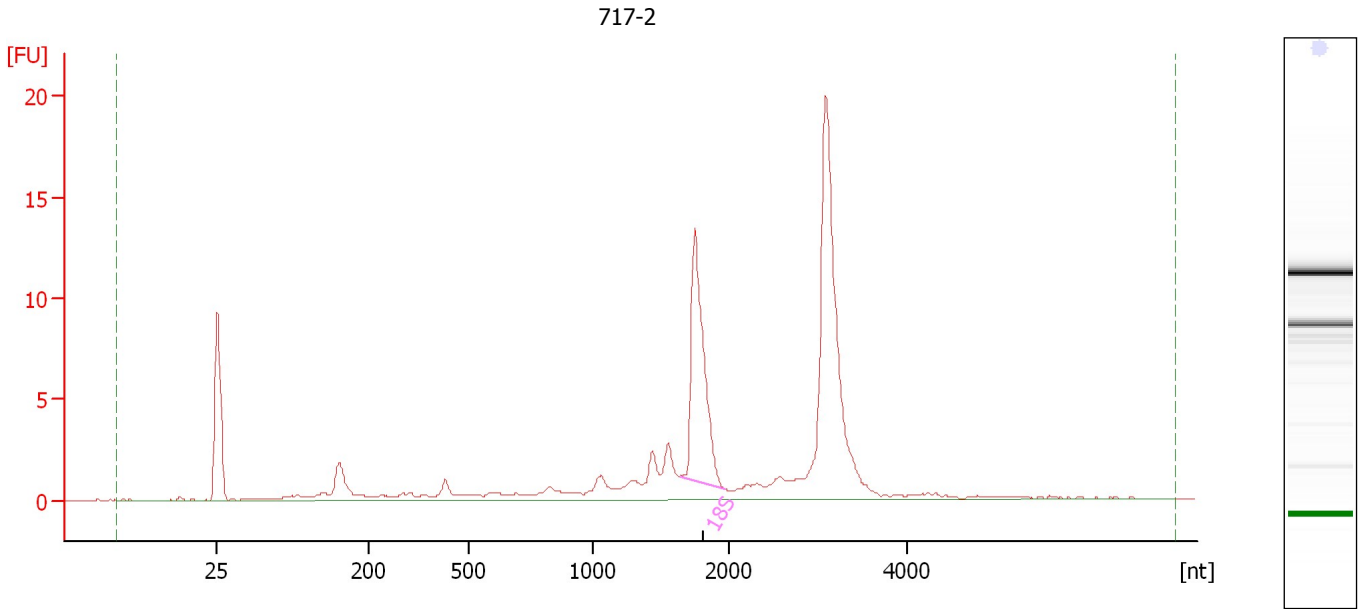
Fragment table for sample 5 : 717-1-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,647	3,564	8.3	27.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 717-2

RNA Area:	87.0	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	56 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

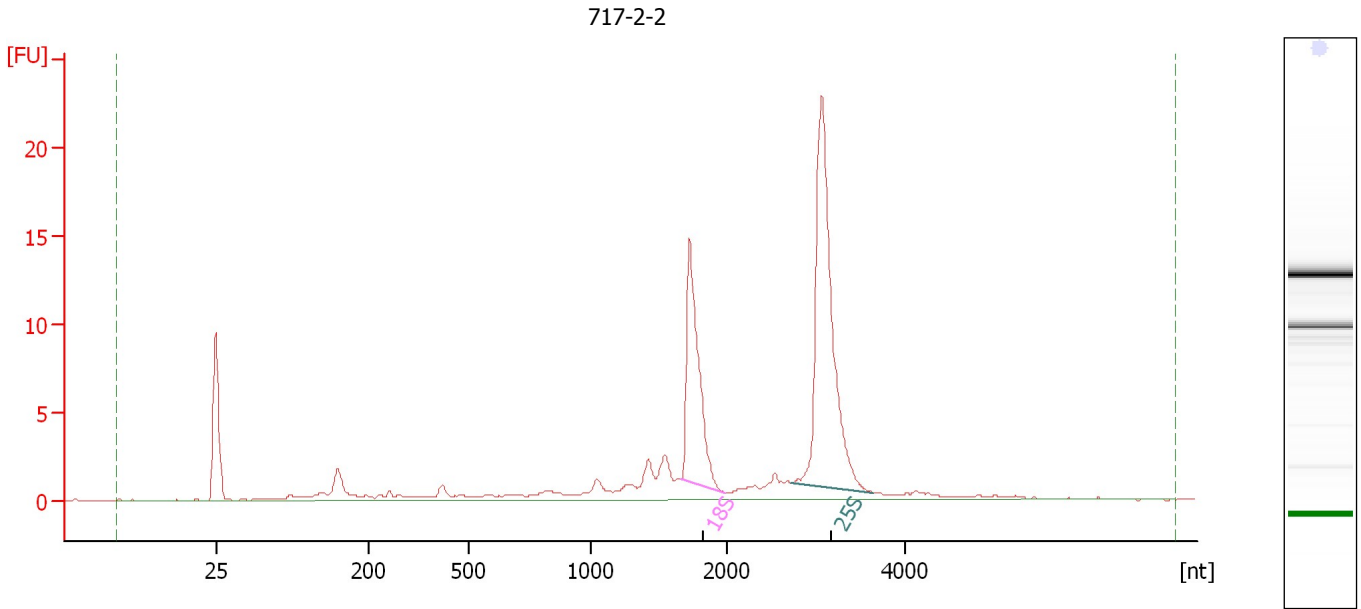
Fragment table for sample 6 : 717-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	1,983	17.4	20.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 717-2-2

RNA Area: 96.4 RNA Integrity Number (RIN): 2.7 (B.02.08)
RNA Concentration: 61 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 2.70

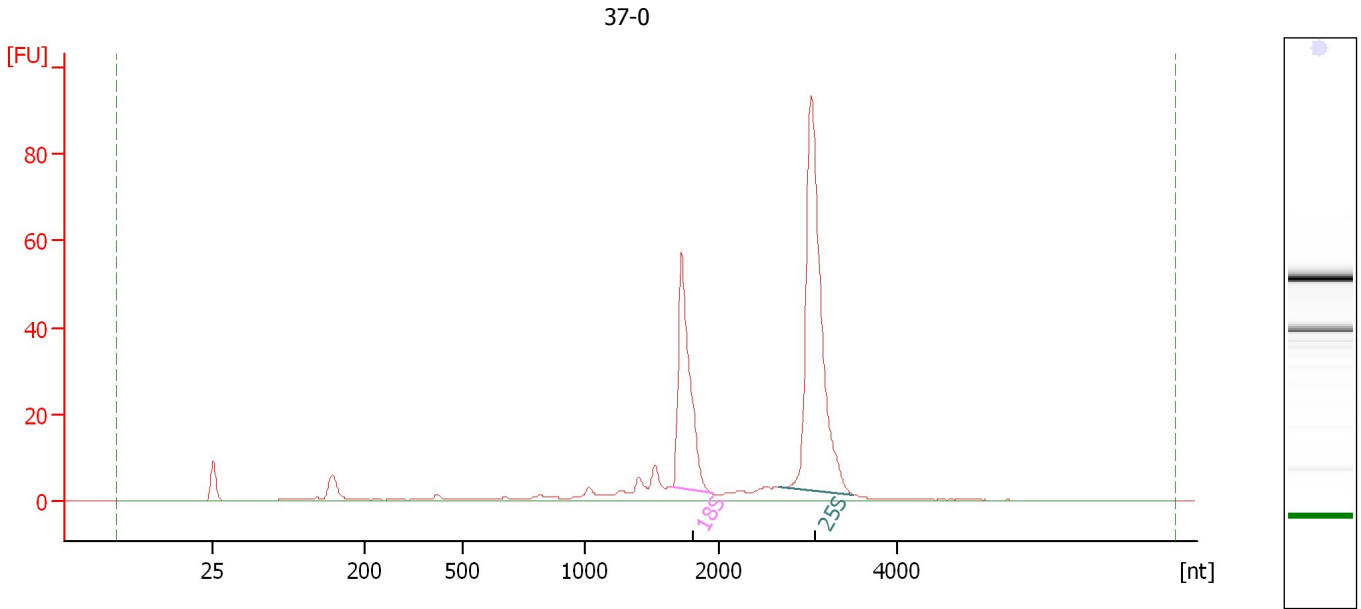
Fragment table for sample 7 : 717-2-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	1,984	18.7	19.4
25S	2,723	3,645	35.5	36.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 37-0

RNA Area:	318.7	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	203 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

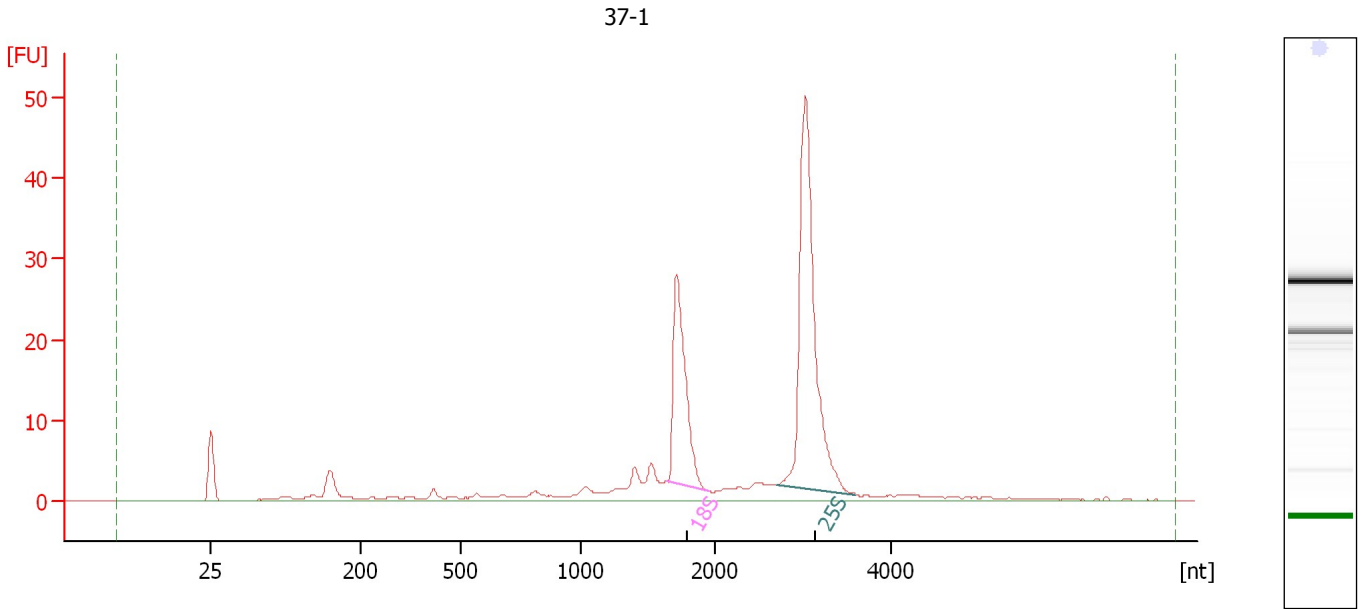
Fragment table for sample 8 : 37-0

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	1,944	72.4	22.7
25S	2,667	3,506	141.6	44.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 37-1

RNA Area: 188.2 RNA Integrity Number (RIN): 2.6 (B.02.08)
RNA Concentration: 120 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 2.60

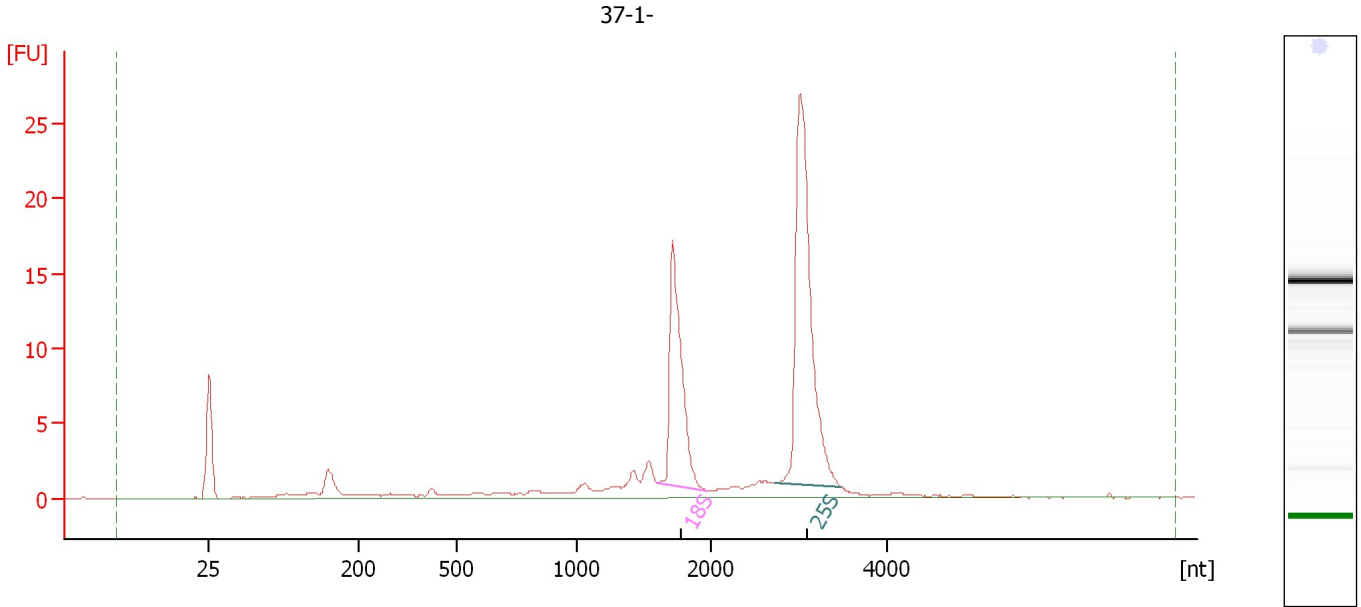
Fragment table for sample 9 : 37-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	1,946	36.6	19.4
25S	2,695	3,583	74.3	39.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 37-1-

RNA Area: 103.2 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 66 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 7.40

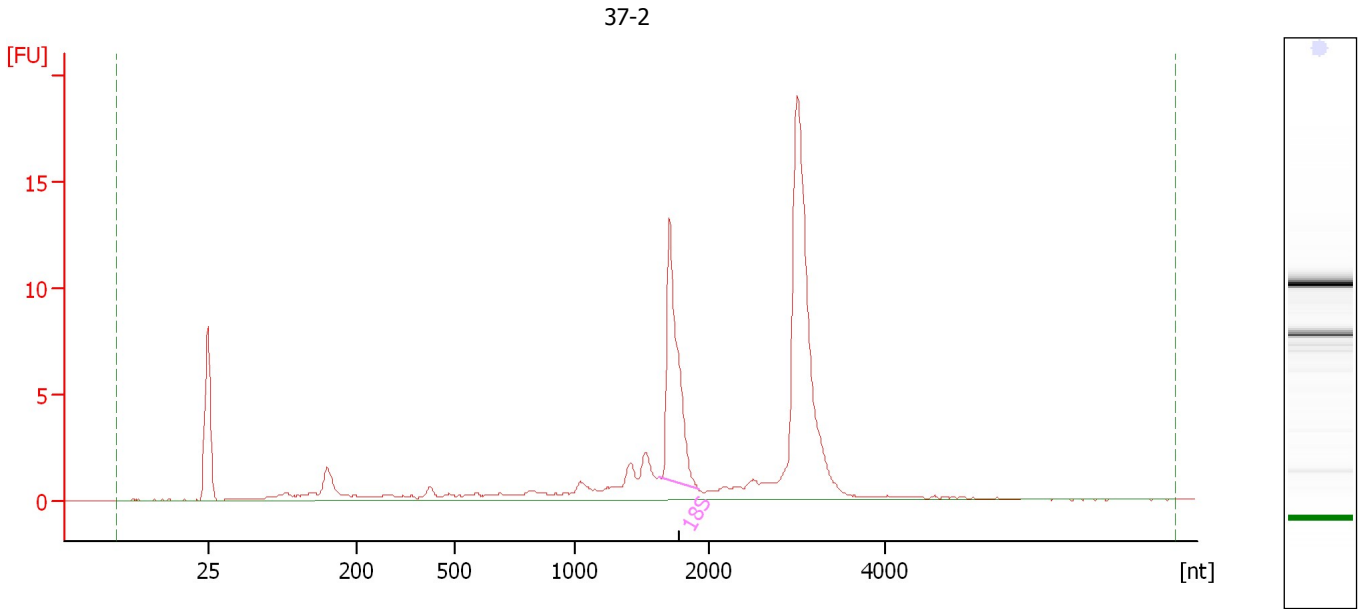
Fragment table for sample 10 : 37-1-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,599	1,975	22.3	21.6
25S	2,716	3,482	41.0	39.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 37-2

RNA Area:	79.0	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	50 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

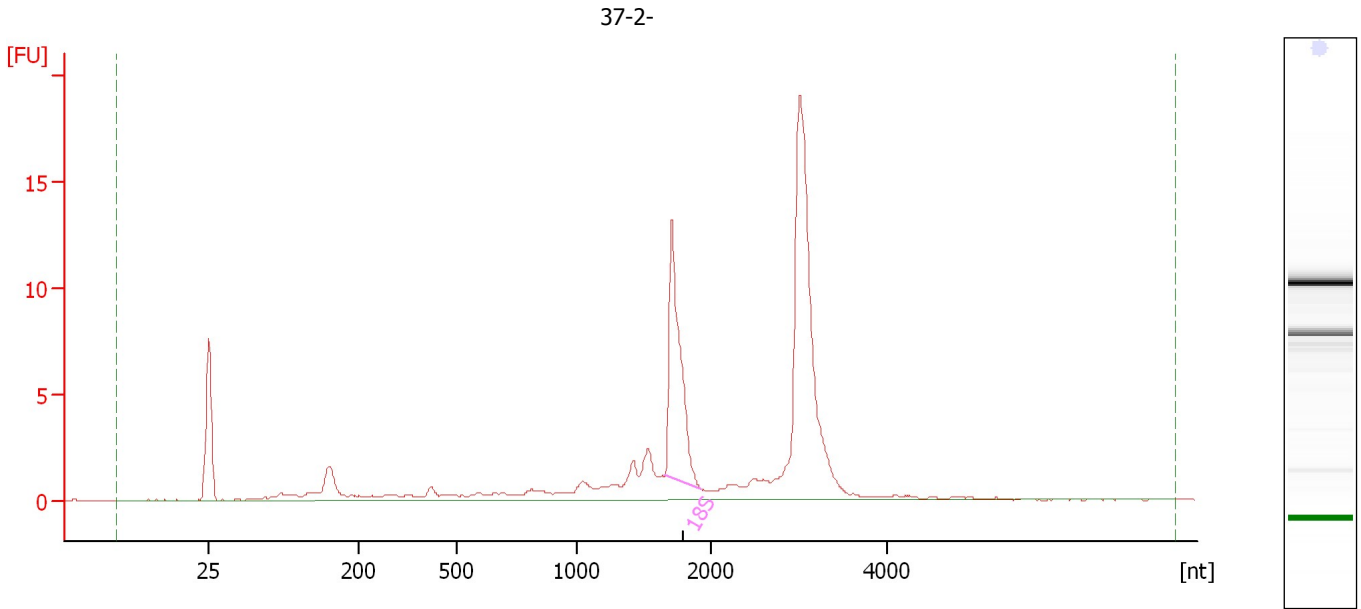
Fragment table for sample 11 : 37-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,626	1,920	15.8	20.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 37-2-

RNA Area:	82.6	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	53 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

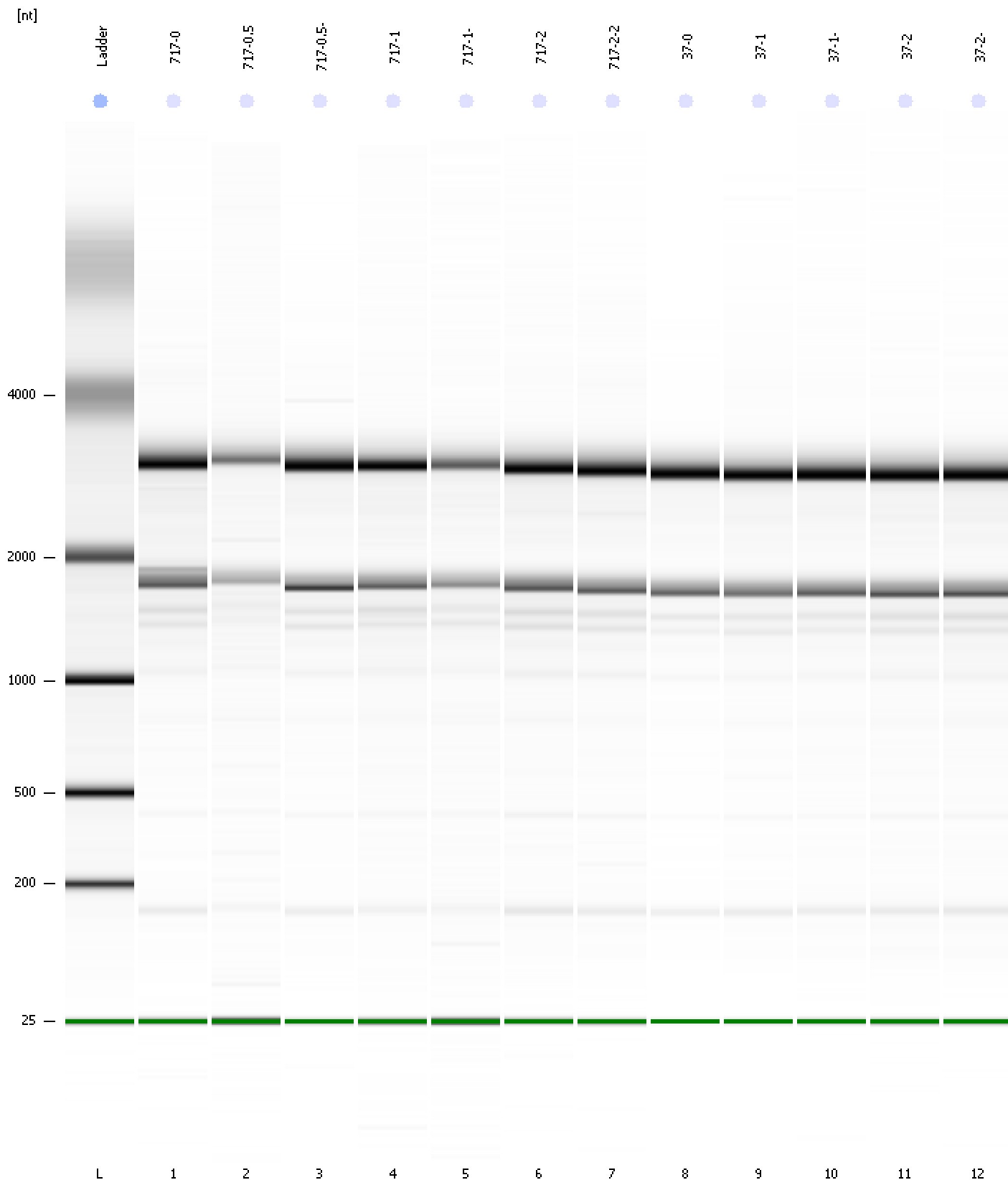
Fragment table for sample 12 : 37-2-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,655	1,919	15.7	19.1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Gel Image

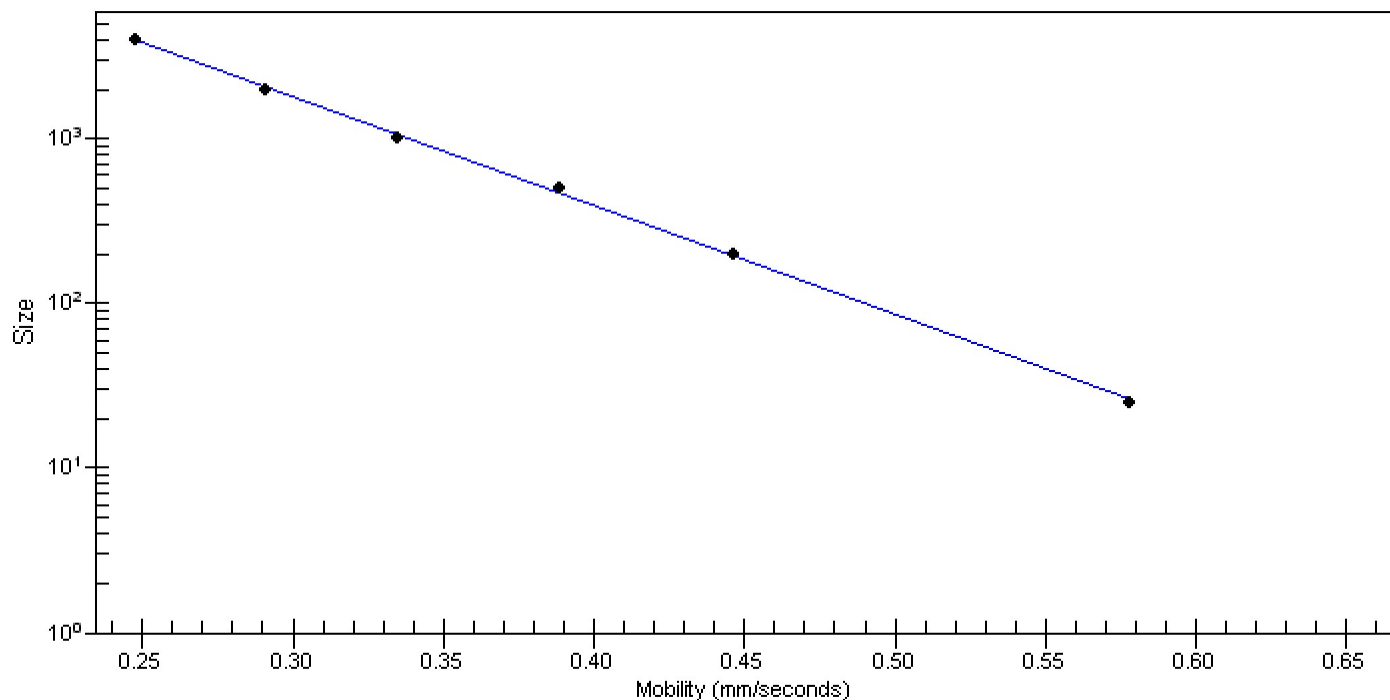


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
Modified: 2/24/2012 3:40:30 PM

Curves

Standard Curve



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad

Created: 2/24/2012 3:02:28 PM
 Modified: 2/24/2012 3:40:30 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		2/24/2012 3:26:17 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-02-24\2012-02-24_006.xad)		Instrument	Run		2/24/2012 3:02:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/24/2012 3:02:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/24/2012 3:02:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/24/2012 3:02:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/24/2012 3:02:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/24/2012 3:02:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/24/2012 3:02:33 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1