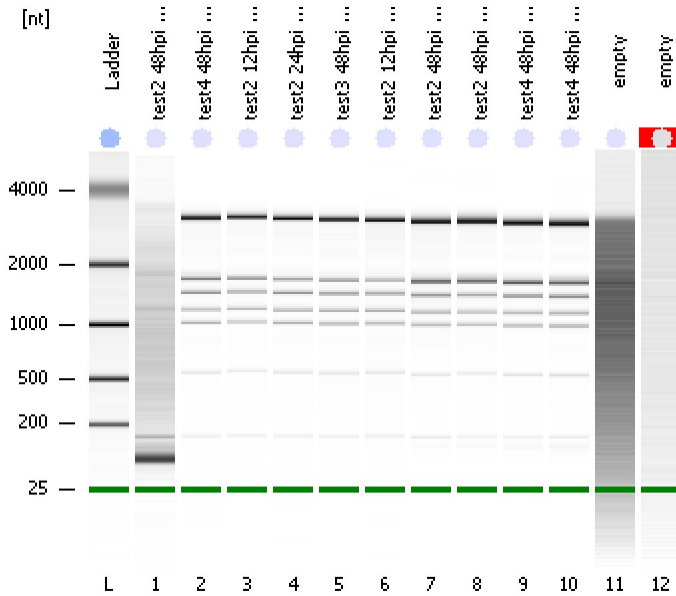


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

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)

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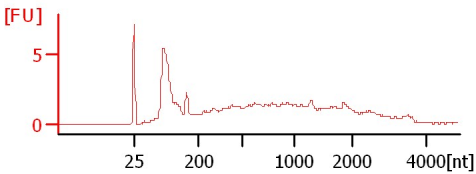
Chip Information:

Chip Lot #:

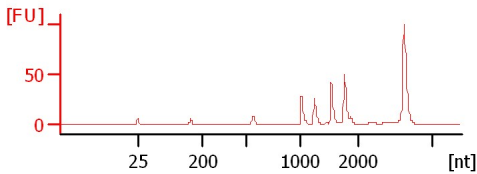
Reagent Kit Lot #:

Chip Comments:

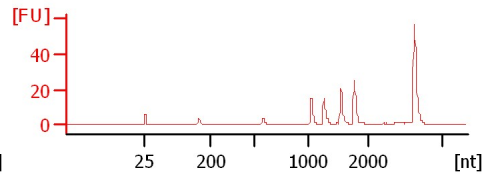
test2 48hpi C standard DNase treated ...
RIN: 2.30



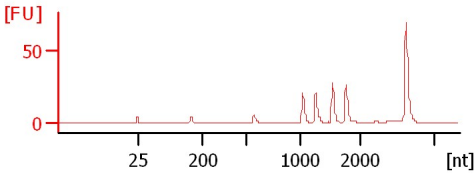
test4 48hpi B (quiagena)
RIN: 8.60



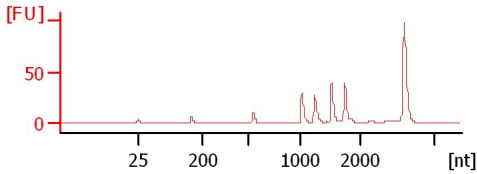
test2 12hpi C (quiagena)
RIN: 8.40



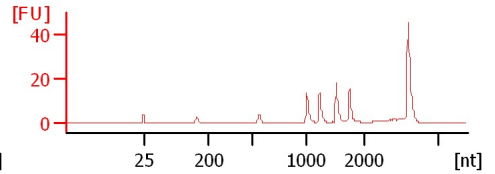
test2 24hpi C (quiagenb)
RIN: 5.10



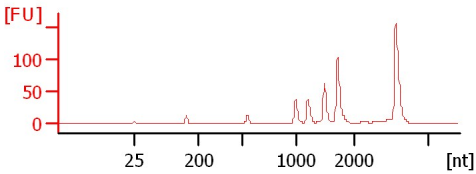
test3 48hpi B (quiagenb)
RIN: 5.10



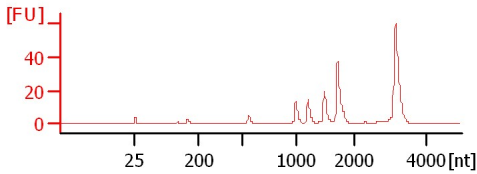
test2 12hpi B (quiagena)
RIN: 4.60



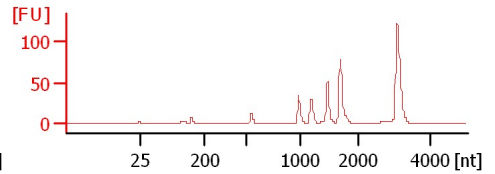
test2 48hpi C (quiagenc)
RIN: 8.60



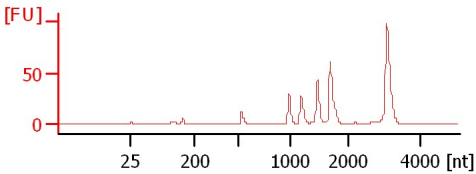
test2 48hpi B (quiagenc)
RIN: 8.70



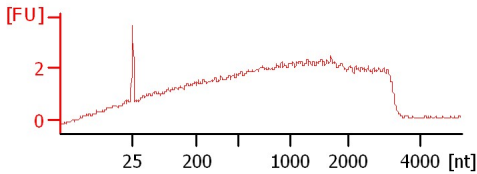
test4 48hpi C (quiagenb)
RIN: 5.80



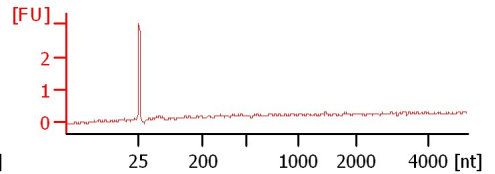
test4 48hpi B (quiagenc)
RIN: 5.80



empty
RIN: 2.20



empty
RIN N/A



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
 Modified: 2/29/2012 9:54:22 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
test2 48hpi C standard DNase treated and microcon purified		✓	RIN: 2.30	
test4 48hpi B (quiagena)		✓	RIN: 8.60	
test2 12hpi C (quiagena)		✓	RIN: 8.40	
test2 24hpi C (quiagenb)		✓	RIN: 5.10	
test3 48hpi B (quiagenb)		✓	RIN: 5.10	
test2 12hpi B (quiagena)		✓	RIN: 4.60	
test2 48hpi C (quiagenc)		✓	RIN: 8.60	
test2 48hpi B (quiagenc)		✓	RIN: 8.70	
test4 48hpi C (quiagenb)		✓	RIN: 5.80	
test4 48hpi B (quiagenc)		✓	RIN: 5.80	
empty		✓	RIN: 2.20	
empty		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

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

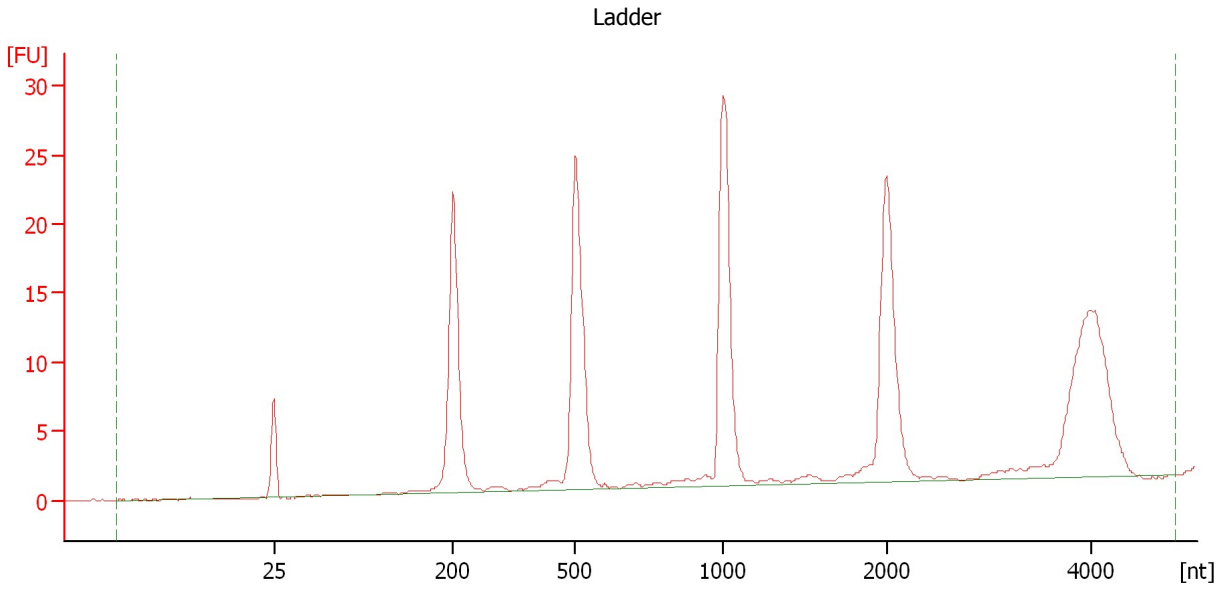
Ladder

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\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary



Overall Results for Ladder

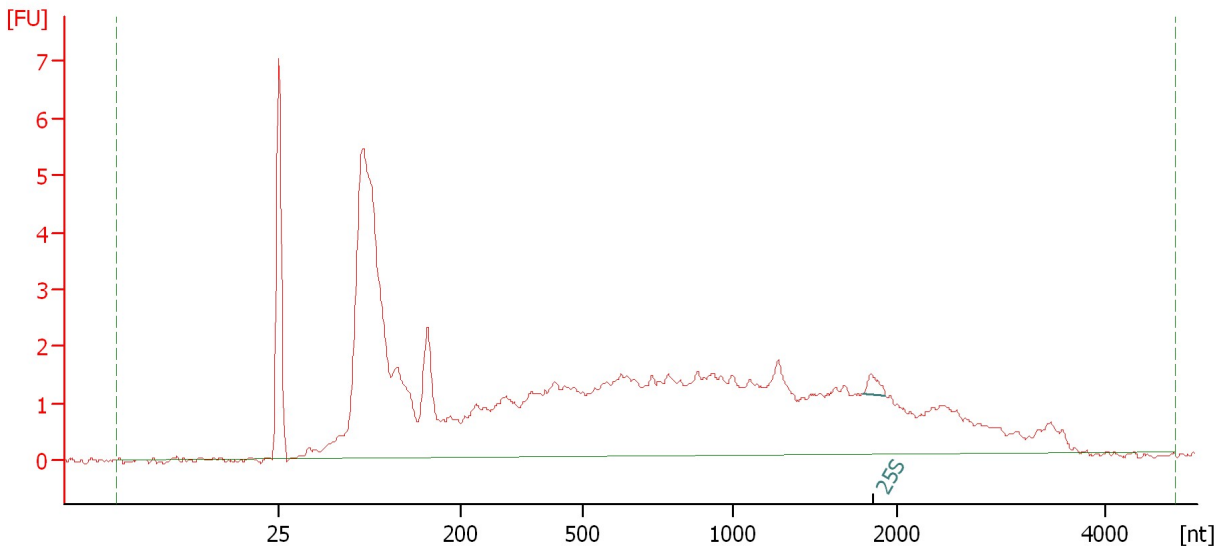
RNA Area:	182.4	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary Continued ...

test2 48hpi C standard DNase treated and microcon purified



Overall Results for sample 1 : test2 48hpi C standard DNase treated and microcon purified

RNA Area:	94.3	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	78 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

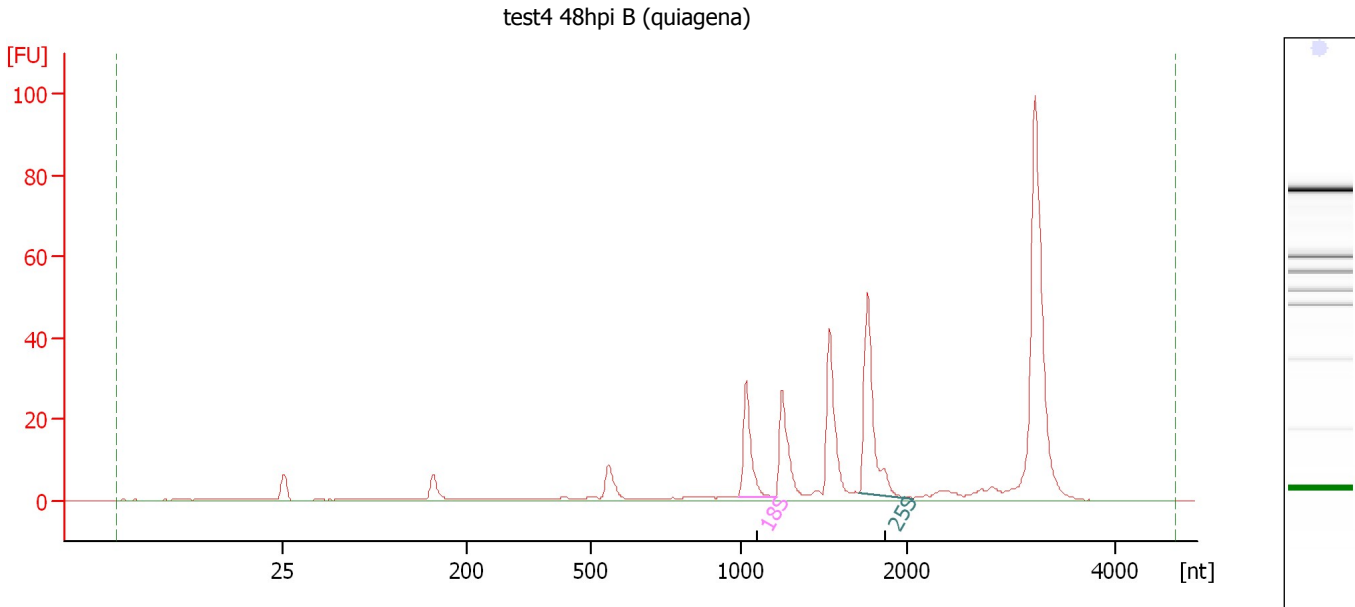
Fragment table for sample 1 : test2 48hpi C standard DNase treated and microcon purified

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,795	1,926	0.4	0.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : test4 48hpi B (quiagena)

RNA Area: 305.8 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 251 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 8.60

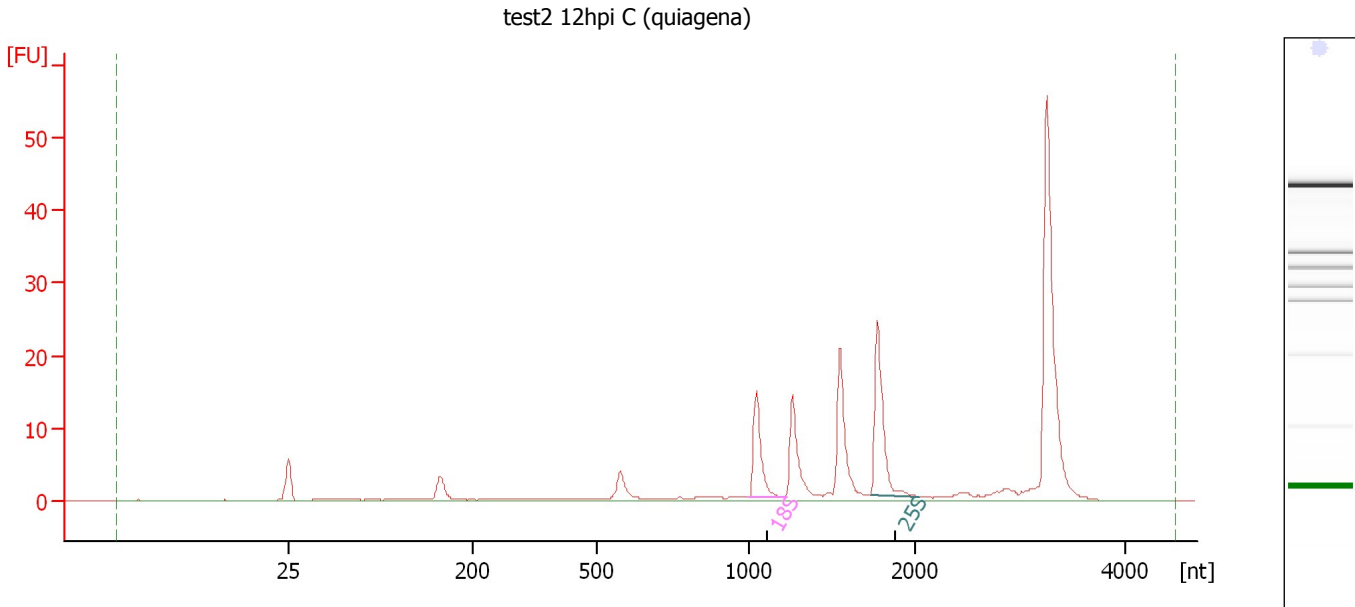
Fragment table for sample 2 : test4 48hpi B (quiagena)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	992	1,206	24.1	7.9
25S	1,717	2,065	44.0	14.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : test2 12hpi C (quiagena)

RNA Area: 150.0 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 123 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.6 Result Flagging Label: RIN: 8.40

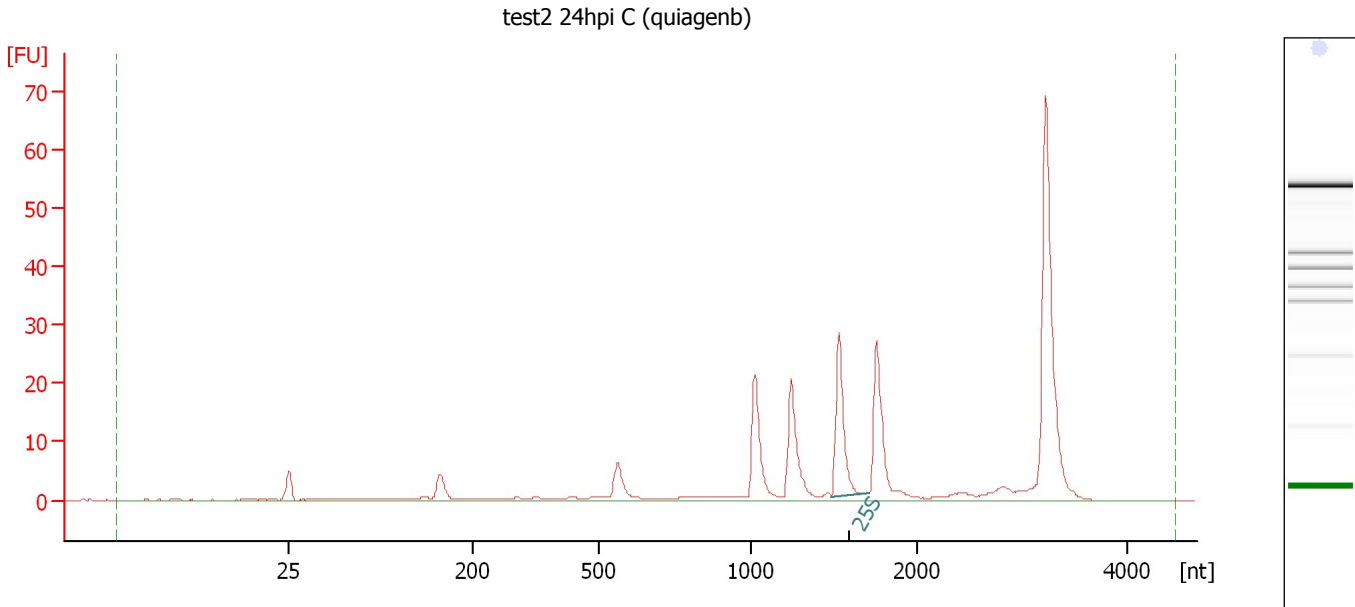
Fragment table for sample 3 : test2 12hpi C (quiagena)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,005	1,223	11.5	7.7
25S	1,731	2,041	19.0	12.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : test2 24hpi C (quiagenb)

RNA Area:	193.7	RNA Integrity Number (RIN):	5.1 (B.02.08)
RNA Concentration:	159 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 5.10

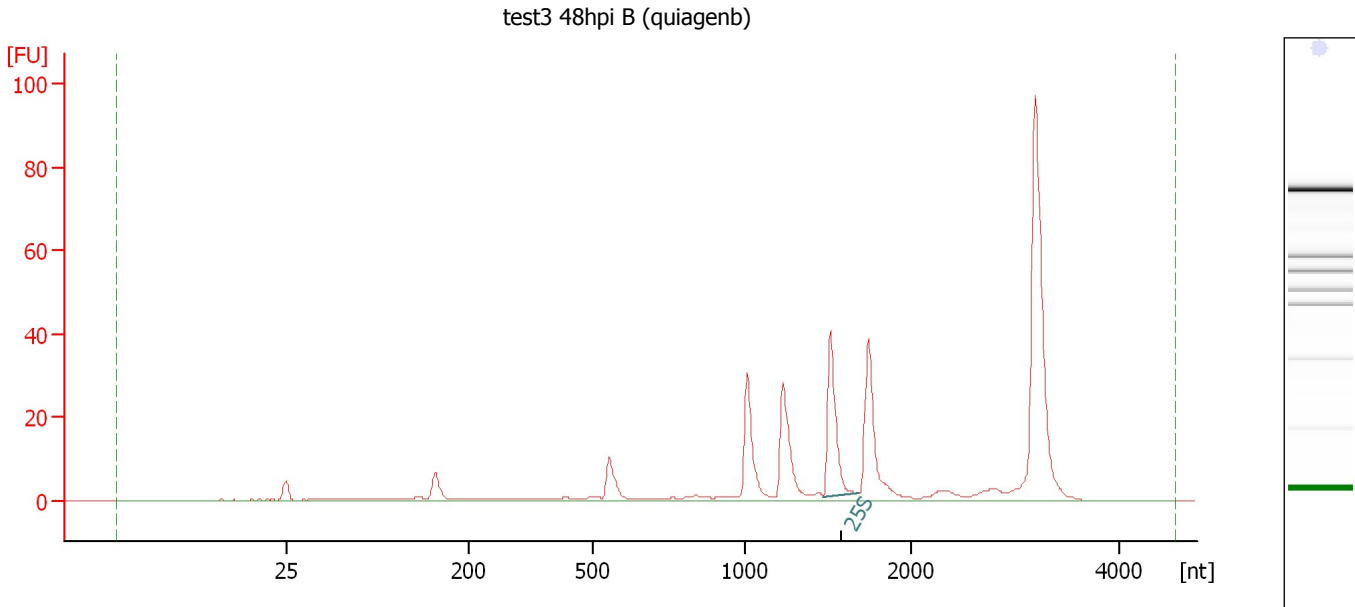
Fragment table for sample 4 : test2 24hpi C (quiagenb)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,487	1,711	21.4	11.1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : test3 48hpi B (quiagenb)

RNA Area: 282.7 RNA Integrity Number (RIN): 5.1 (B.02.08)
RNA Concentration: 233 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 5.10

Fragment table for sample 5 : test3 48hpi B (quiagenb)

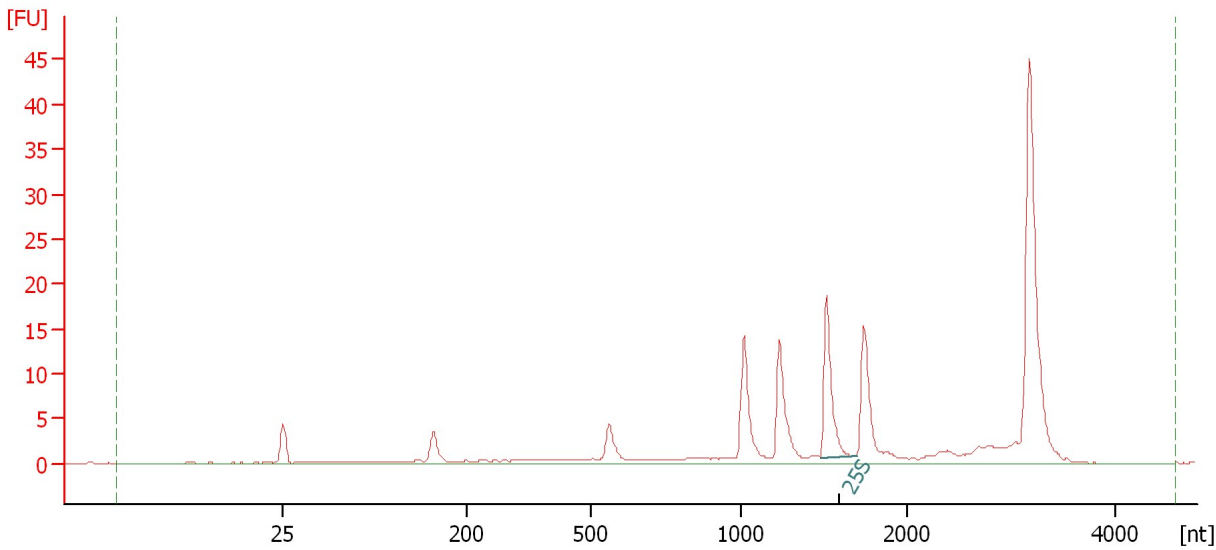
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,473	1,692	31.7	11.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary Continued ...

test2 12hpi B (quiagena)



Overall Results for sample 6 : test2 12hpi B (quiagena)

RNA Area:	140.4	RNA Integrity Number (RIN):	4.6 (B.02.08)
RNA Concentration:	115 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 4.60

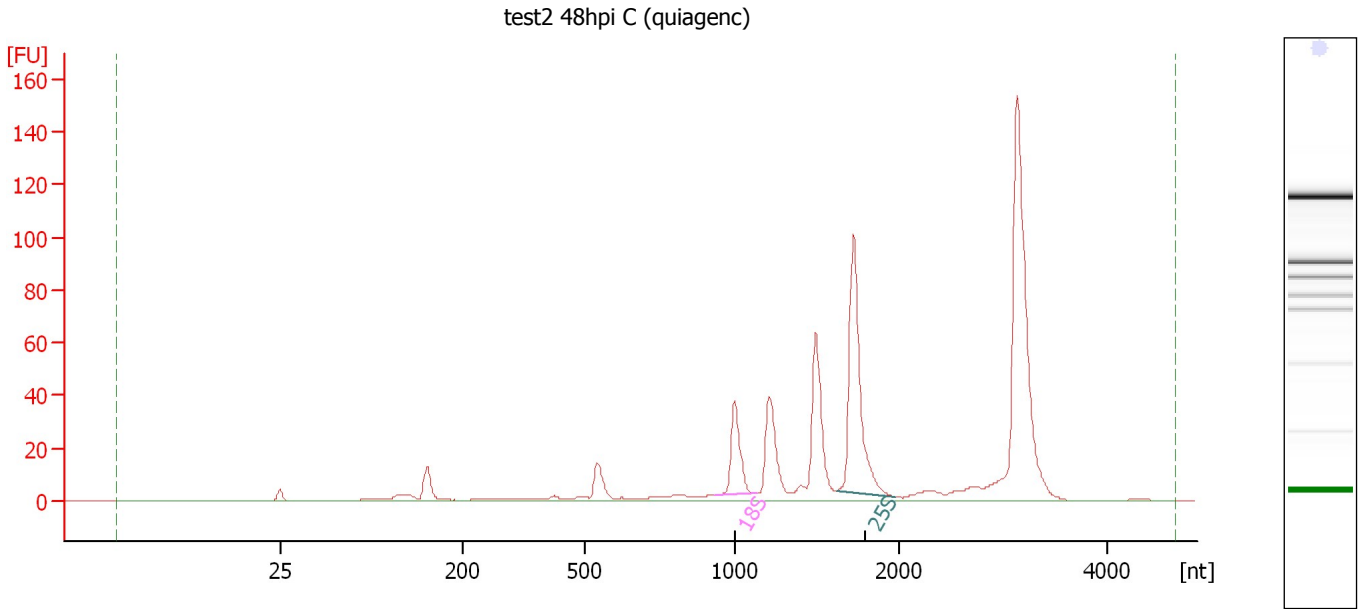
Fragment table for sample 6 : test2 12hpi B (quiagena)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,478	1,698	14.1	10.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : test2 48hpi C (quiagenc)

RNA Area: 564.7 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 464 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.9 Result Flagging Label: RIN: 8.60

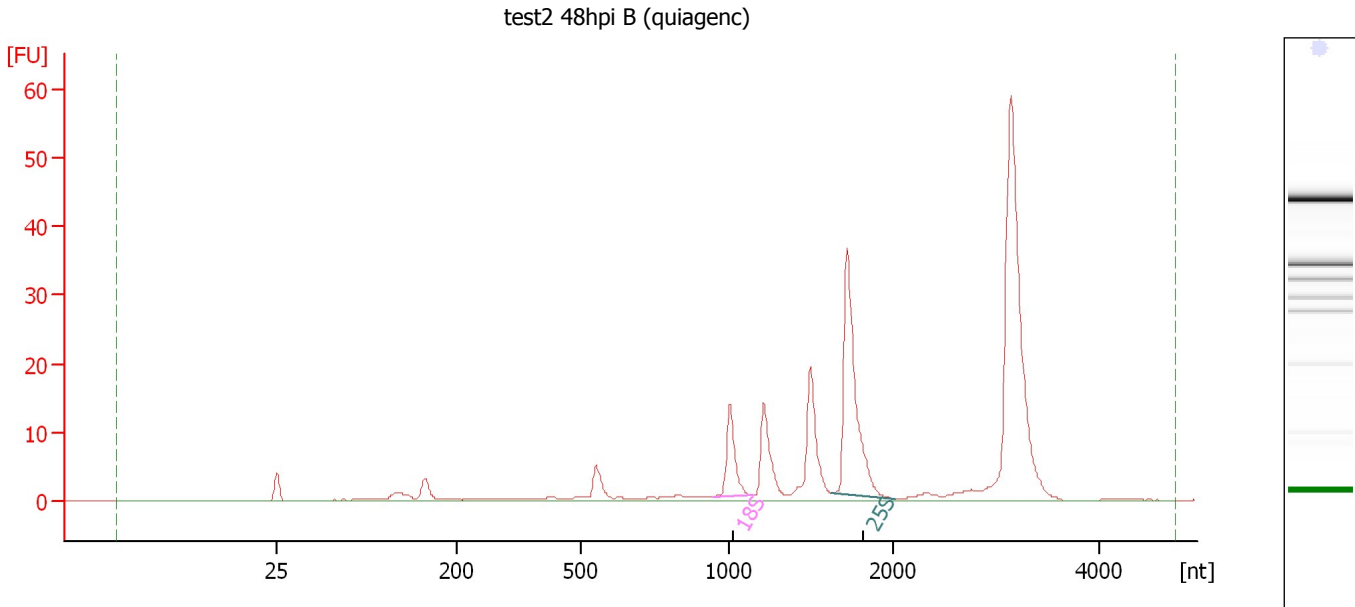
Fragment table for sample 7 : test2 48hpi C (quiagenc)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	929	1,125	35.7	6.3
25S	1,613	1,977	103.2	18.3

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : test2 48hpi B (quiagenc)

RNA Area: 210.9 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 173 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 3.3 Result Flagging Label: RIN: 8.70

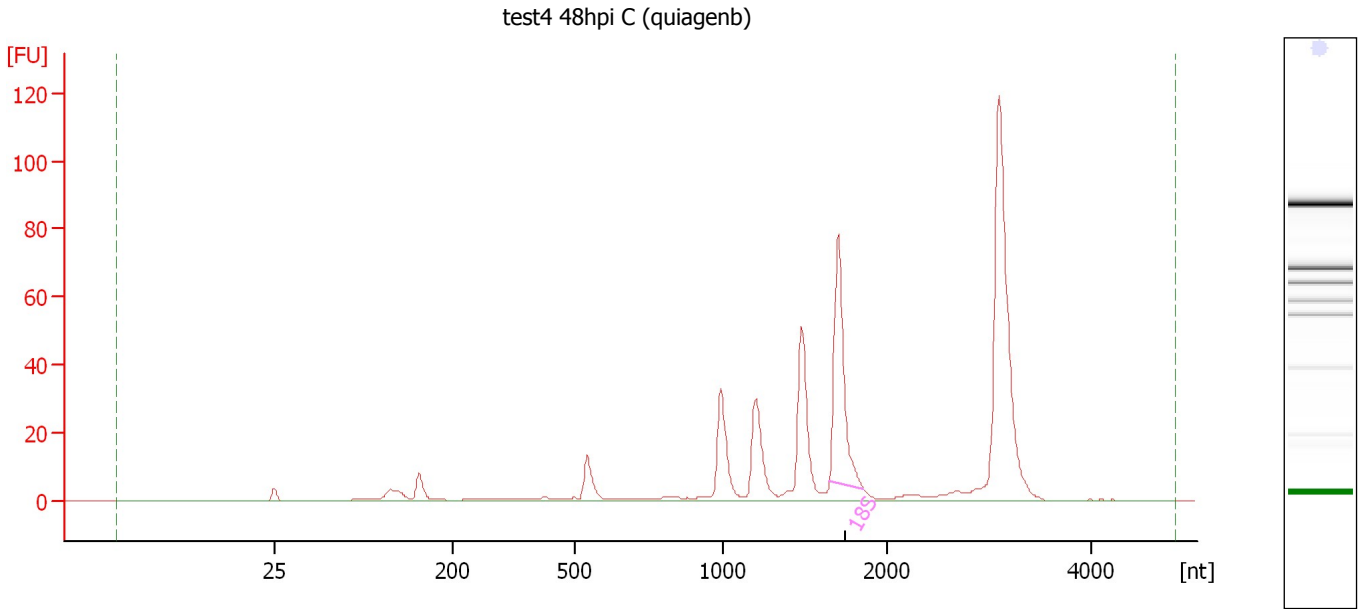
Fragment table for sample 8 : test2 48hpi B (quiagenc)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	941	1,141	12.3	5.9
25S	1,625	2,018	41.1	19.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : test4 48hpi C (quiagenb)

RNA Area:	413.3	RNA Integrity Number (RIN):	5.8 (B.02.08)
RNA Concentration:	340 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 5.80

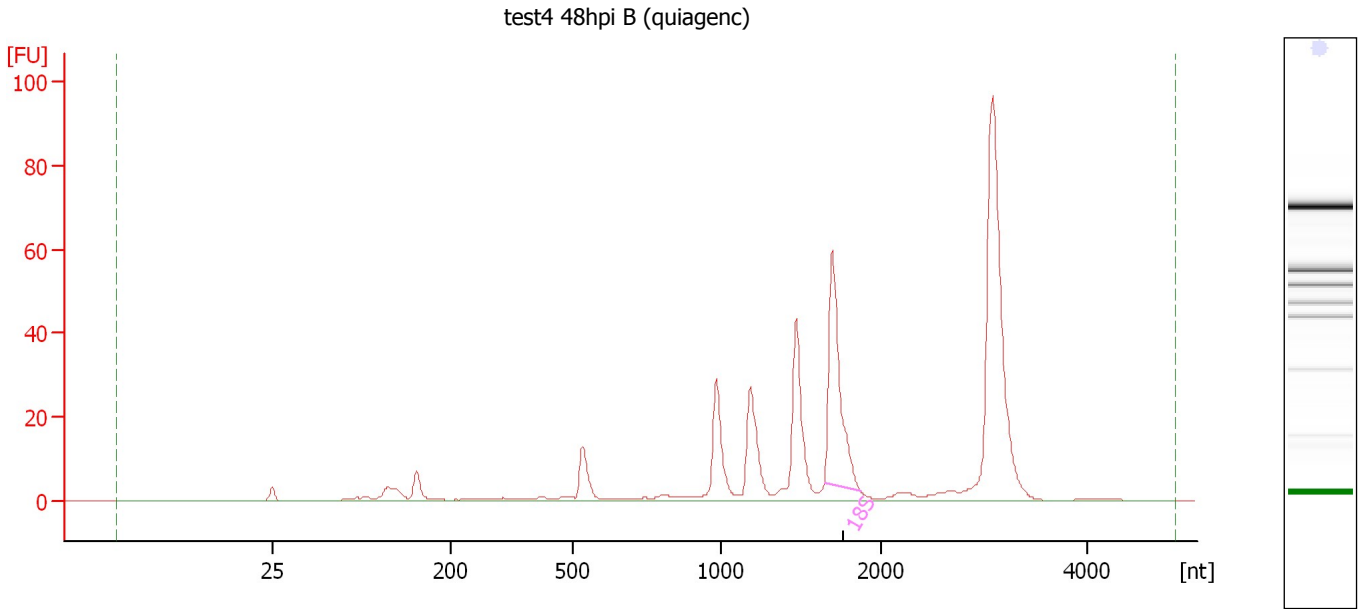
Fragment table for sample 9 : test4 48hpi C (quiagenb)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	1,856	69.6	16.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : test4 48hpi B (quiagenc)

RNA Area: 375.0 RNA Integrity Number (RIN): 5.8 (B.02.08)
RNA Concentration: 308 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 5.80

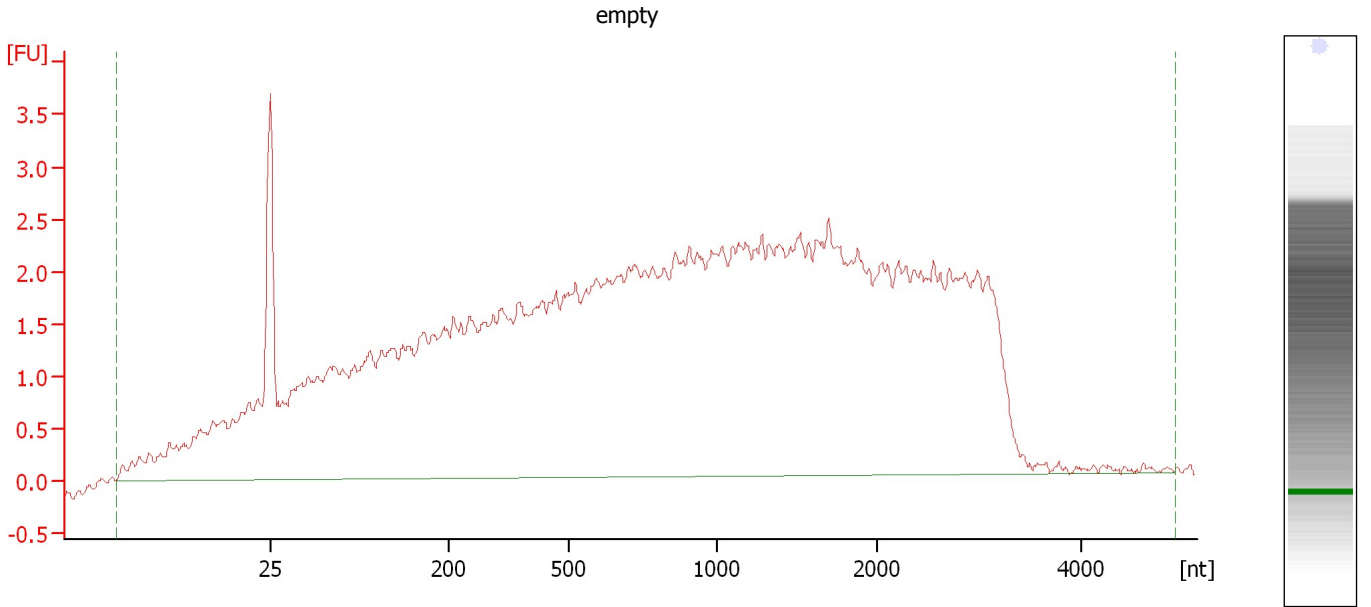
Fragment table for sample 10 : test4 48hpi B (quiagenc)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	1,866	61.3	16.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary Continued ...



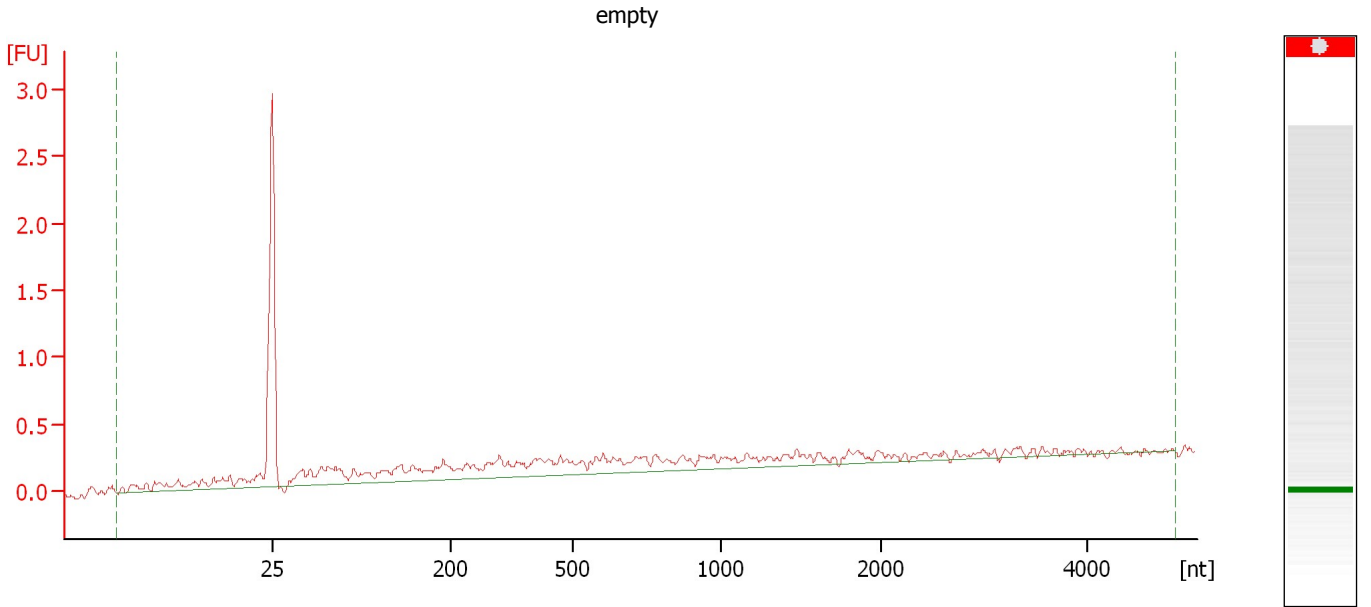
Overall Results for sample 11 : empty

RNA Area:	143.9	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	118 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Electropherogram Summary Continued ...



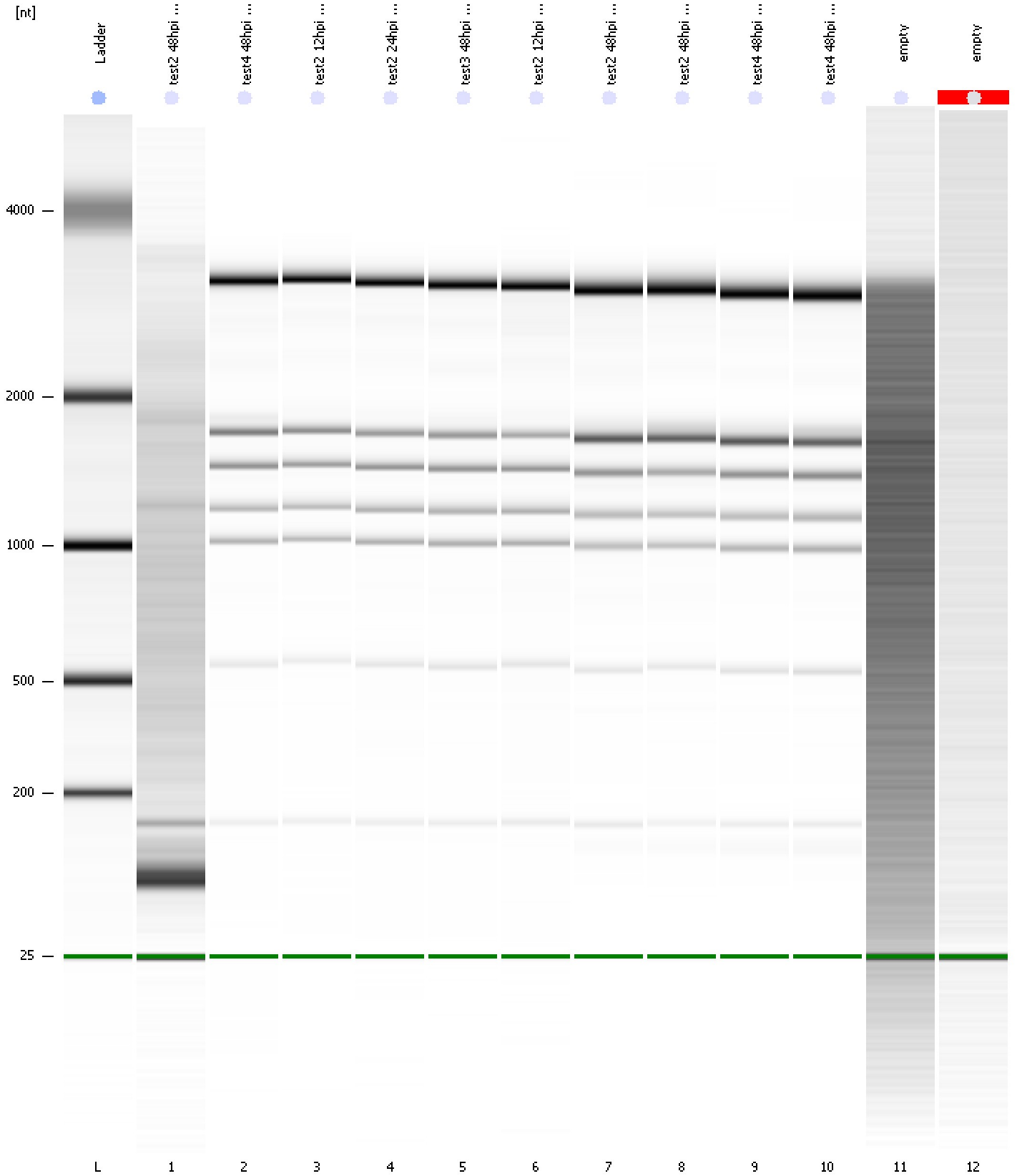
Overall Results for sample 12 : empty

RNA Area:	7.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 ng/ μ l	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Gel Image

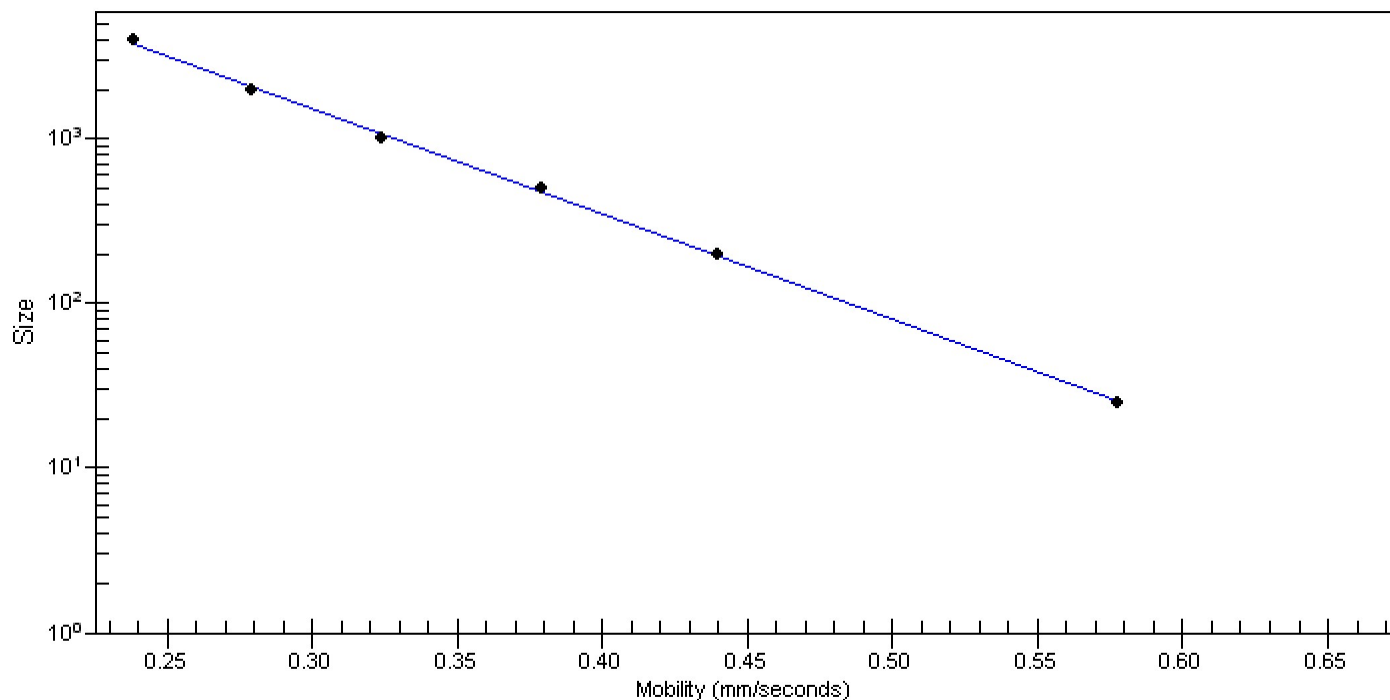


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
Modified: 2/29/2012 9:54:22 AM

Curves

Standard Curve



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad

Created: 2/29/2012 9:26:29 AM
 Modified: 2/29/2012 9:54:22 AM

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		2/29/2012 9:50:17 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-02-29\2012-02-29_001.xad)		Instrument	Run		2/29/2012 9:26:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/29/2012 9:26:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/29/2012 9:26:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/29/2012 9:26:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/29/2012 9:26:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/29/2012 9:26:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/29/2012 9:26:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1