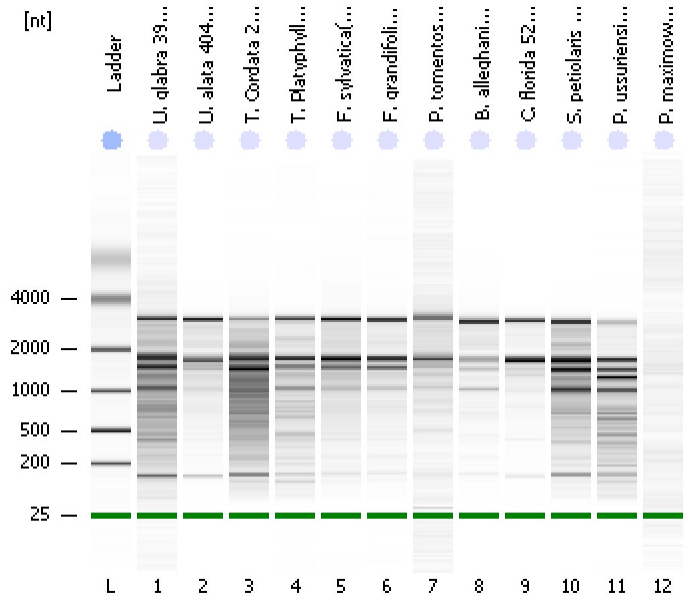


Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
 Modified: 12/23/2014 12:01:45 PM

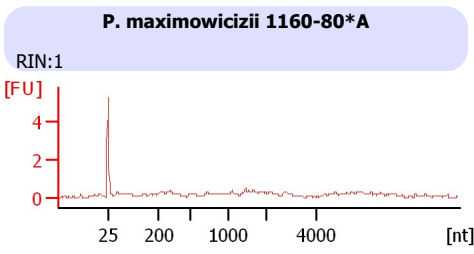
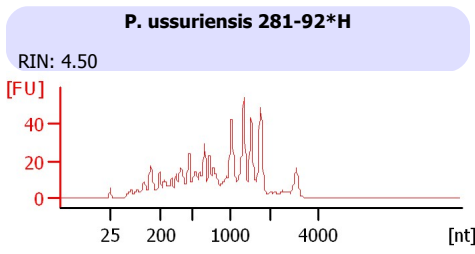
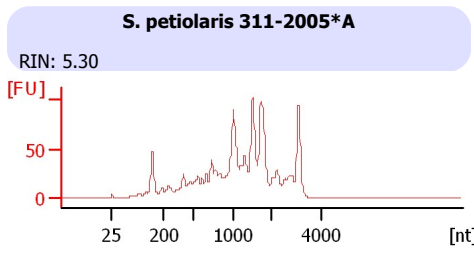
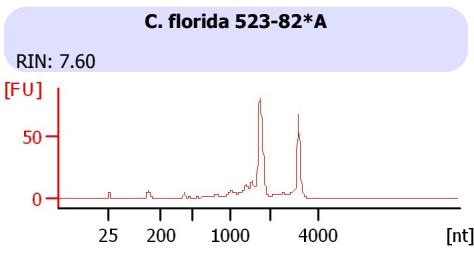
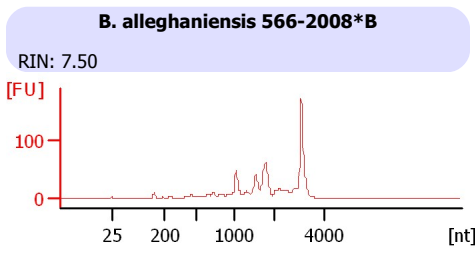
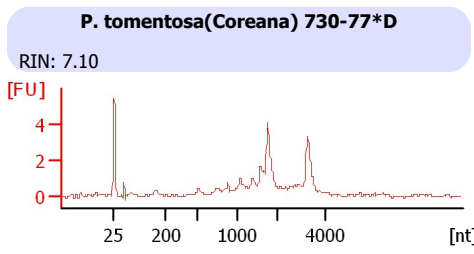
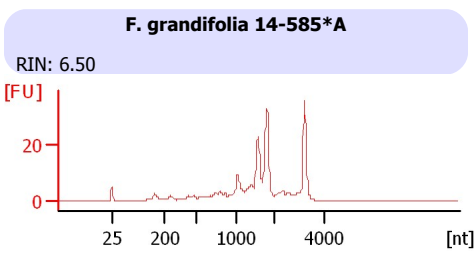
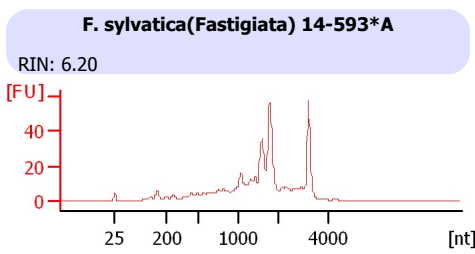
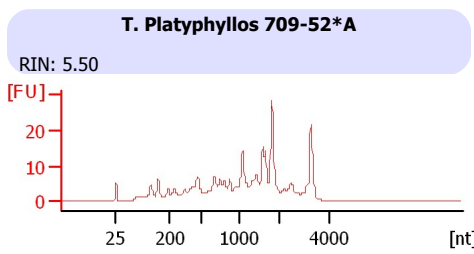
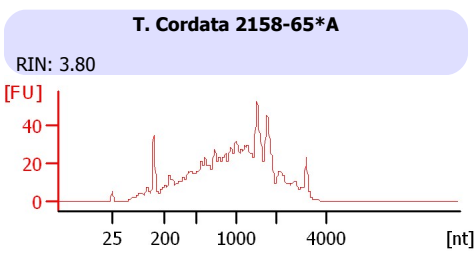
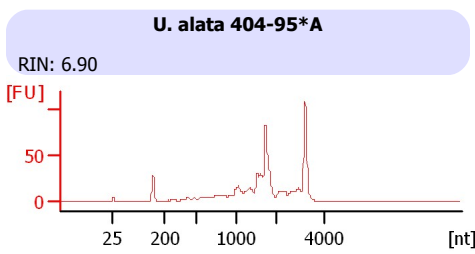
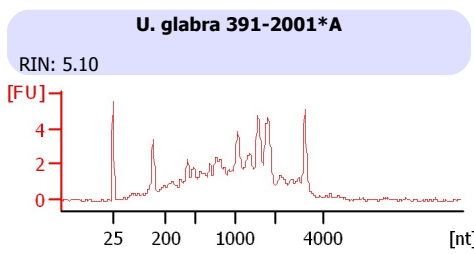
Electrophoresis File Run Summary



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\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
Modified: 12/23/2014 12:01:45 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
U. glabra 391-2001*A		✓	RIN: 5.10	
U. alata 404-95*A		✓	RIN: 6.90	
T. Cordata 2158-65*A		✓	RIN: 3.80	
T. Platyphyllos 709-52*A		✓	RIN: 5.50	
F. sylvatica(Fastigiata) 14-593*A		✓	RIN: 6.20	
F. grandifolia 14-585*A		✓	RIN: 6.50	
P. tomentosa(Coreana) 730-77*D		✓	RIN: 7.10	
B. alleghaniensis 566-2008*B		✓	RIN: 7.50	
C. florida 523-82*A		✓	RIN: 7.60	
S. petiolaris 311-2005*A		✓	RIN: 5.30	
P. ussuriensis 281-92*H		✓	RIN: 4.50	
P. maximowiczii 1160-80*A		✓	RIN:1	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
Modified: 12/23/2014 12:01:45 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ 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] : 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

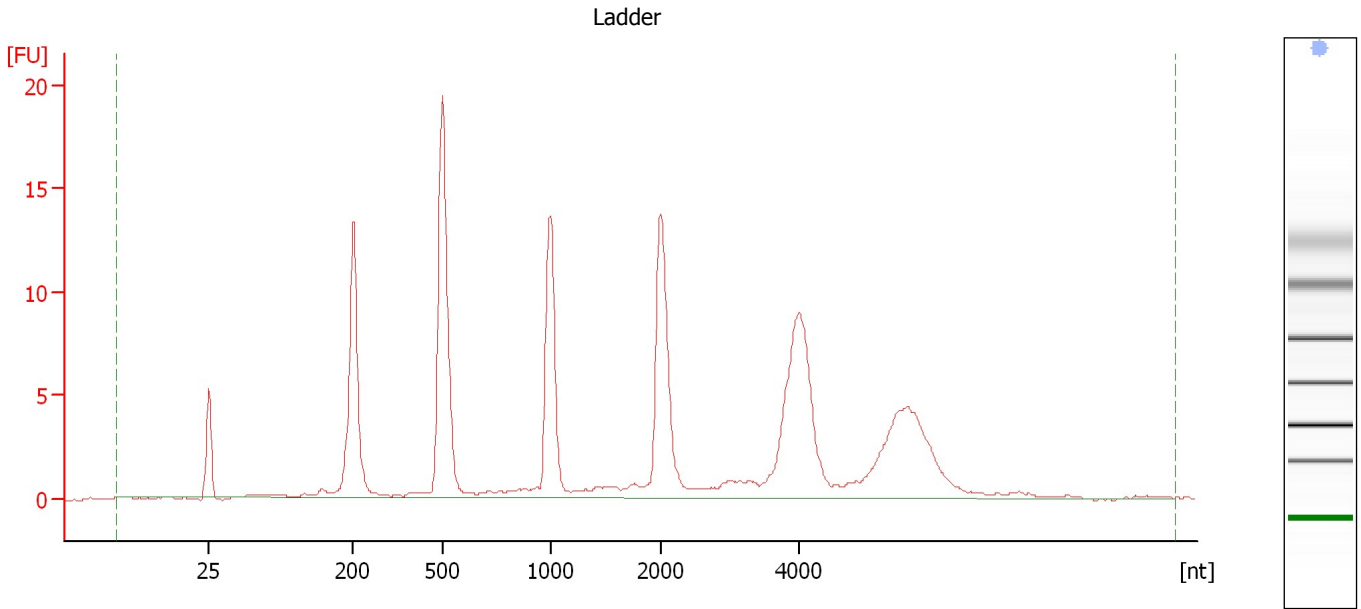
Ladder

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\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary



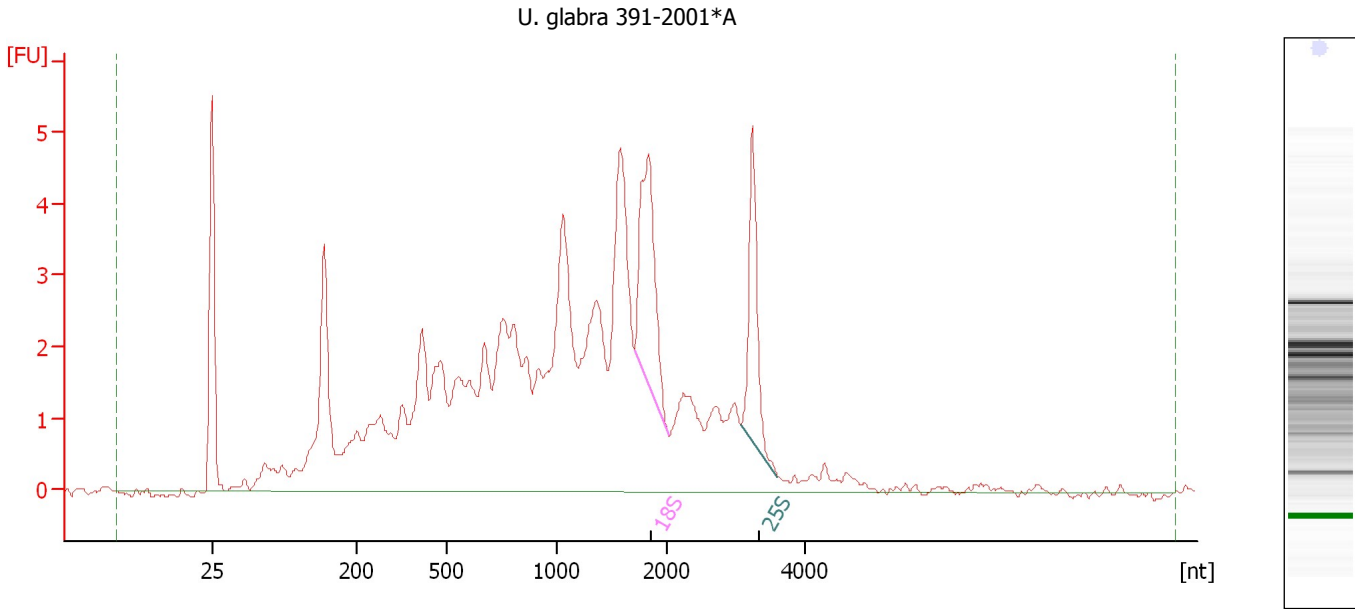
Overall Results for Ladder

RNA Area:	147.8	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\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
 Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : U. glabra 391-2001*A

RNA Area:	100.0	RNA Integrity Number (RIN):	5.1 (B.02.08)
RNA Concentration:	101 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.7	Result Flagging Label:	RIN: 5.10

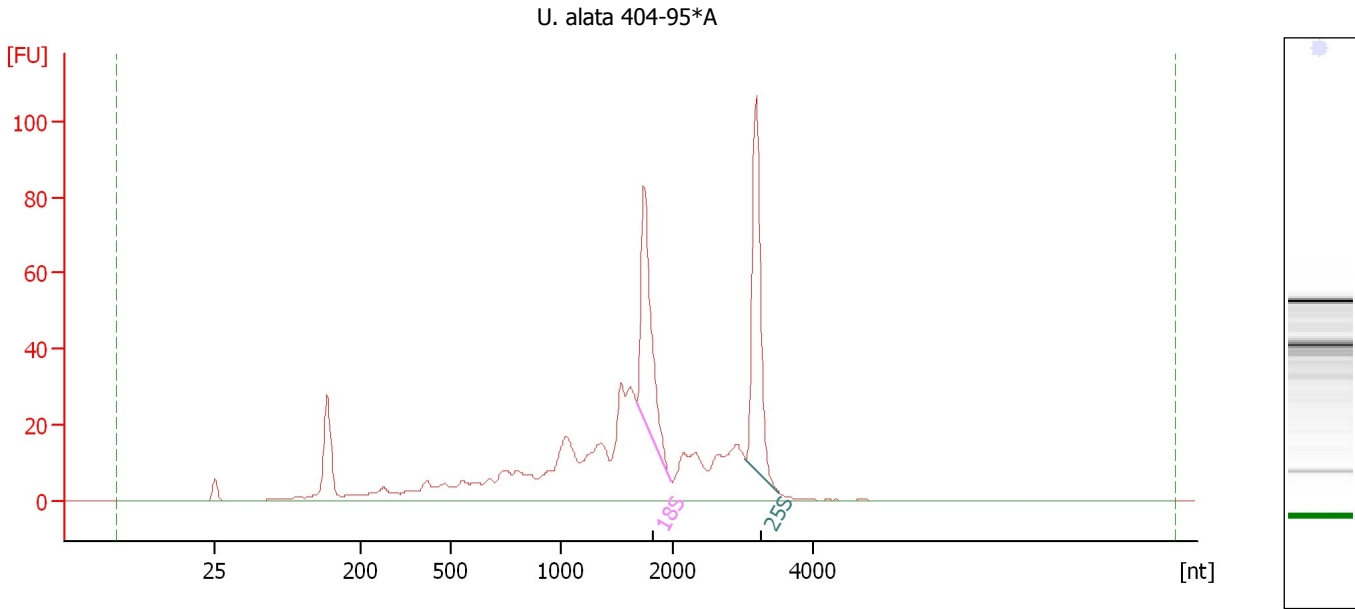
Fragment table for sample 1 : U. glabra 391-2001*A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,704	2,020	5.8	5.8
25S	3,068	3,592	3.8	3.8

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
 Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : U. alata 404-95*A

RNA Area:	637.3	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	647 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.2	Result Flagging Label:	RIN: 6.90

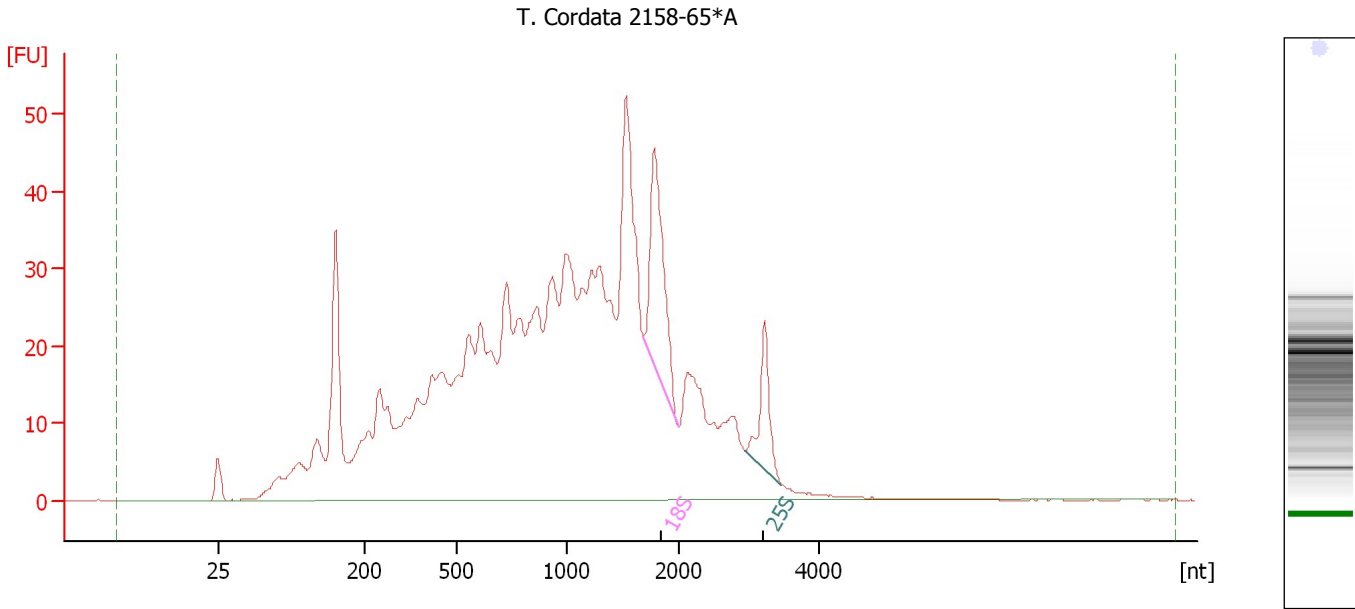
Fragment table for sample 2 : U. alata 404-95*A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,680	1,977	73.4	11.5
25S	3,036	3,526	85.1	13.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : T. Cordata 2158-65*A

RNA Area: 1,050.2 RNA Integrity Number (RIN): 3.8 (B.02.08)
RNA Concentration: 1,066 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.4 Result Flagging Label: RIN: 3.80

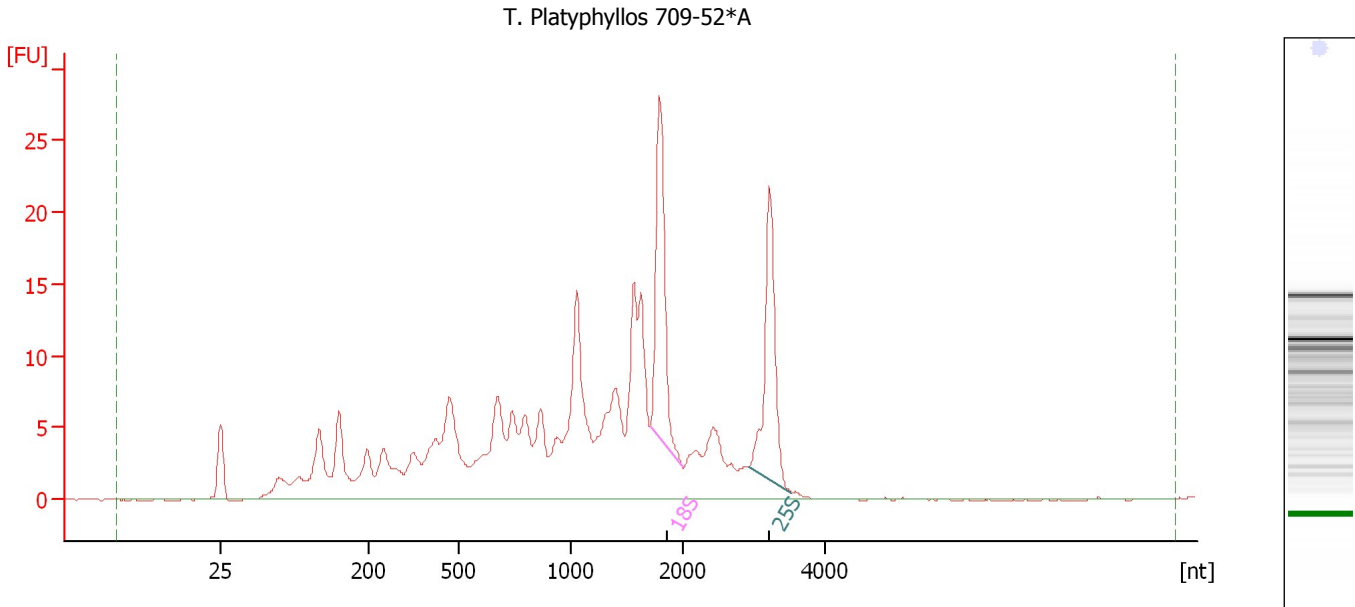
Fragment table for sample 3 : T. Cordata 2158-65*A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,685	1,990	46.3	4.4
25S	2,943	3,460	19.0	1.8

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
 Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : T. Platyphyllos 709-52*A

RNA Area:	286.3	RNA Integrity Number (RIN):	5.5 (B.02.08)
RNA Concentration:	291 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.9	Result Flagging Label:	RIN: 5.50

Fragment table for sample 4 : T. Platyphyllos 709-52*A

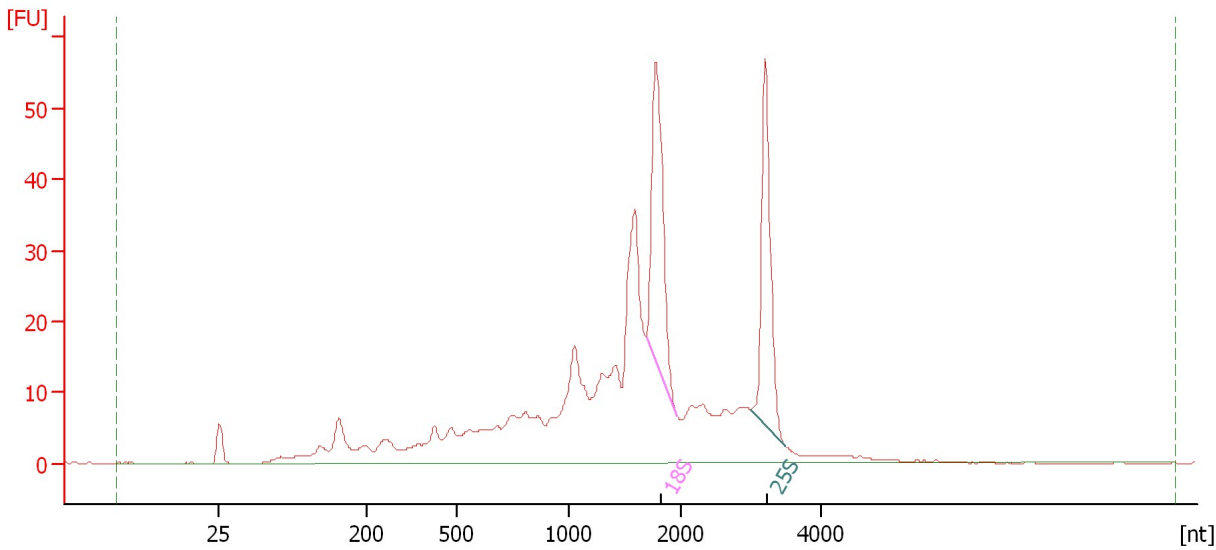
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,707	1,992	24.2	8.5
25S	2,942	3,533	21.5	7.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary Continued ...

F. sylvatica(Fastigiata) 14-593*A



Overall Results for sample 5 : F. sylvatica(Fastigiata) 14-593*A

RNA Area: 506.0 RNA Integrity Number (RIN): 6.2 (B.02.08)
RNA Concentration: 514 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.9 Result Flagging Label: RIN: 6.20

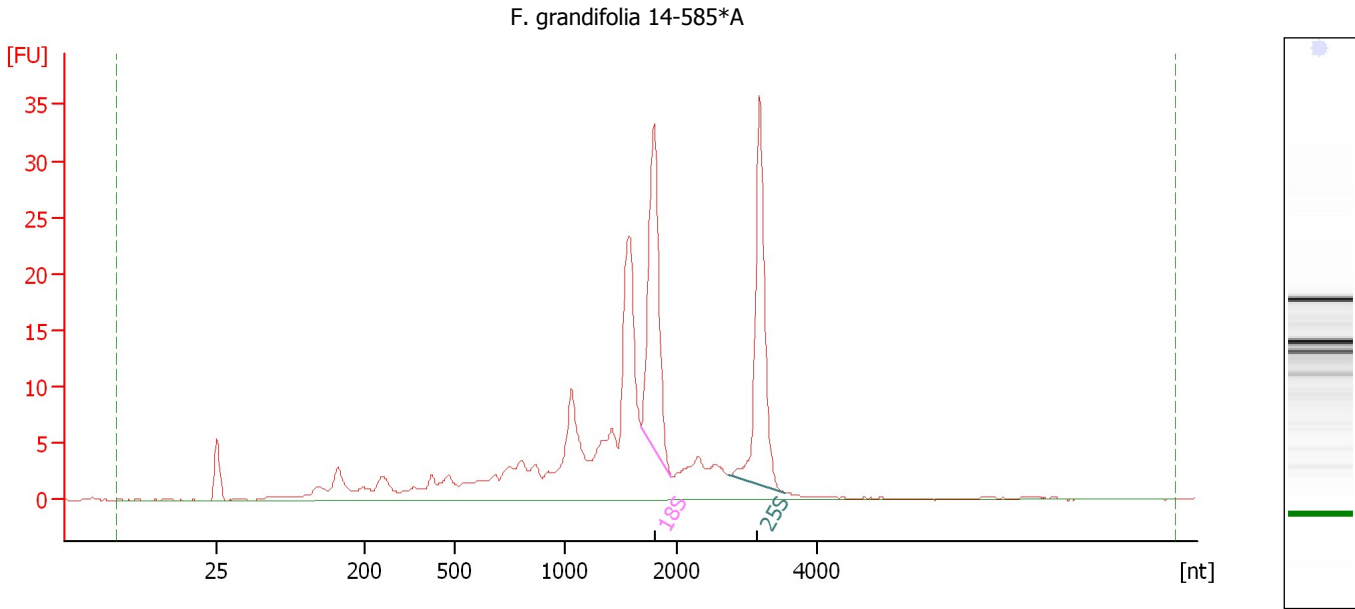
Fragment table for sample 5 : F. sylvatica(Fastigiata) 14-593*A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,687	1,963	57.7	11.4
25S	2,988	3,489	49.8	9.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : F. grandifolia 14-585*A

RNA Area:	235.1	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	239 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.0	Result Flagging Label:	RIN: 6.50

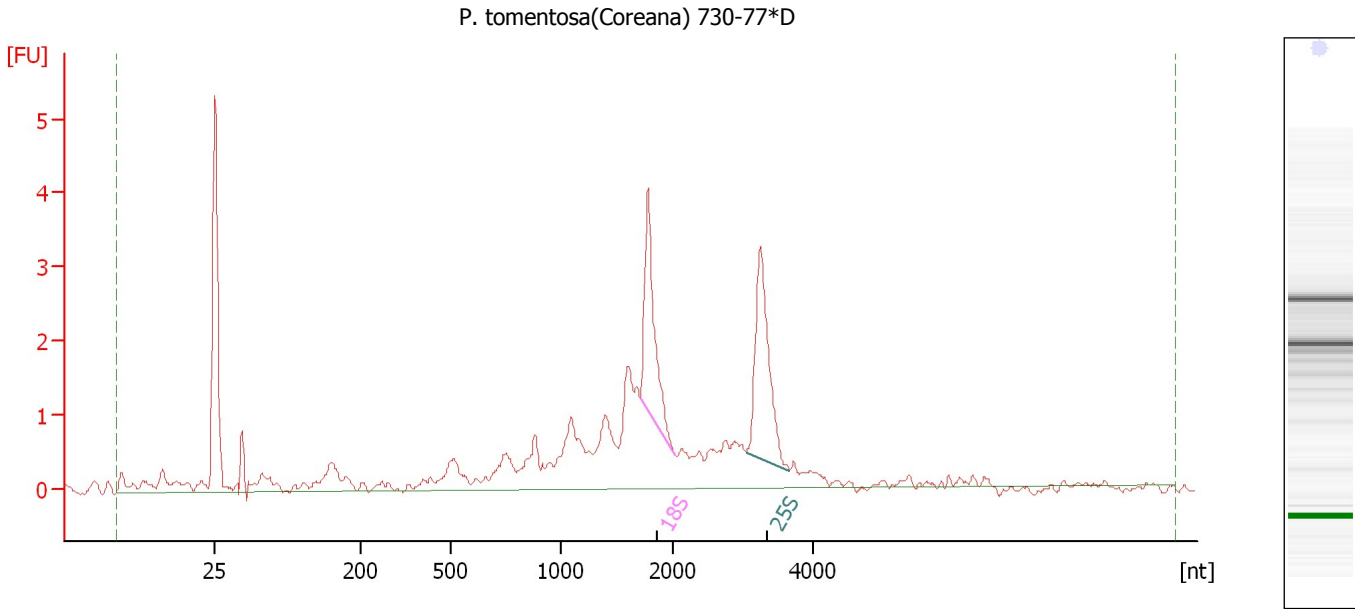
Fragment table for sample 6 : F. grandifolia 14-585*A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,683	1,951	36.2	15.4
25S	2,745	3,553	35.3	15.0

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
 Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : P. tomentosa(Coreana) 730-77*D

RNA Area:	35.9	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	36 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.2	Result Flagging Label:	RIN: 7.10

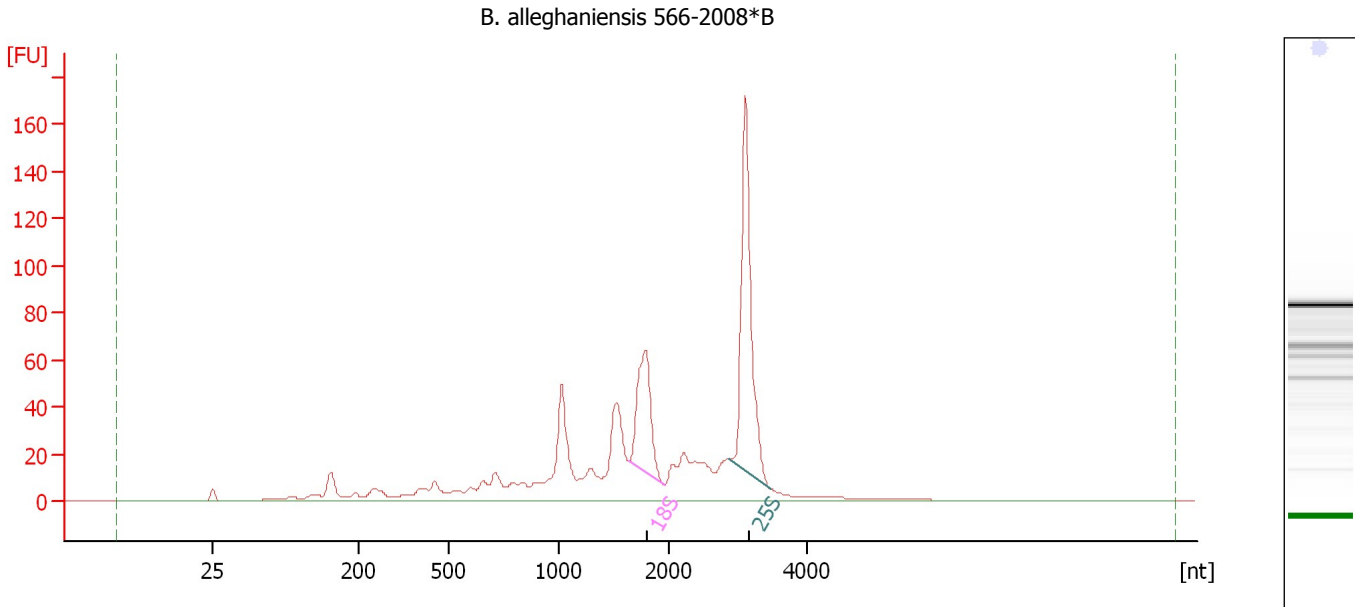
Fragment table for sample 7 : P. tomentosa(Coreana) 730-77*D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,709	2,040	3.4	9.6
25S	3,051	3,663	4.1	11.6

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
 Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : B. alleghaniensis 566-2008*B

RNA Area:	808.7	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	821 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.0	Result Flagging Label:	RIN: 7.50

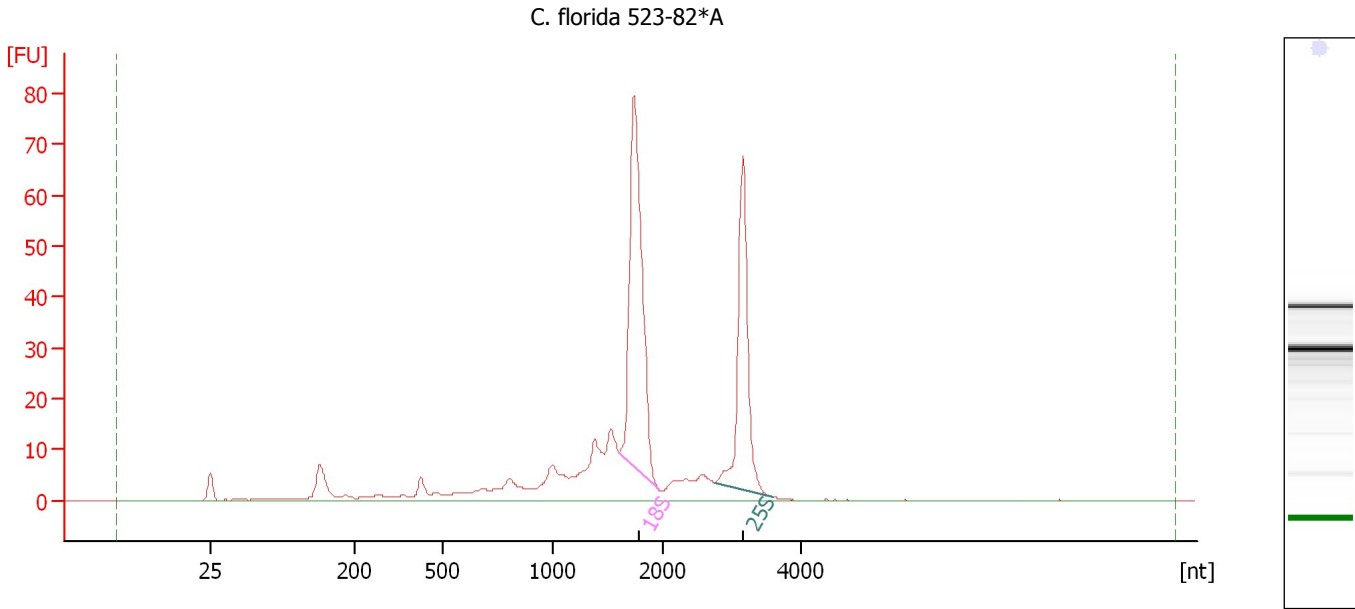
Fragment table for sample 8 : B. alleghaniensis 566-2008*B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	1,956	84.6	10.5
25S	2,867	3,467	166.6	20.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : C. florida 523-82*A

RNA Area: 366.1 RNA Integrity Number (RIN): 7.6 (B.02.08)
RNA Concentration: 372 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 7.60

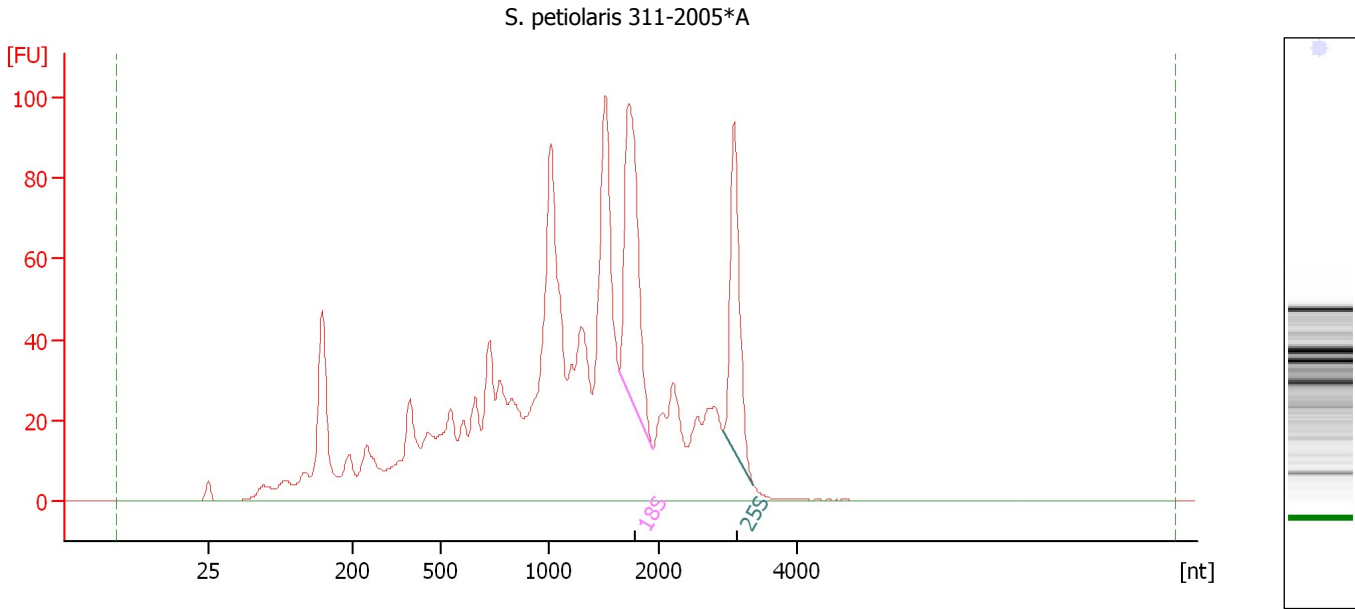
Fragment table for sample 9 : C. florida 523-82*A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,603	1,962	111.7	30.5
25S	2,744	3,579	68.6	18.7

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
 Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : S. petiolaris 311-2005*A

RNA Area:	1,508.3	RNA Integrity Number (RIN):	5.3 (B.02.08)
RNA Concentration:	1,531 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.7	Result Flagging Label:	RIN: 5.30

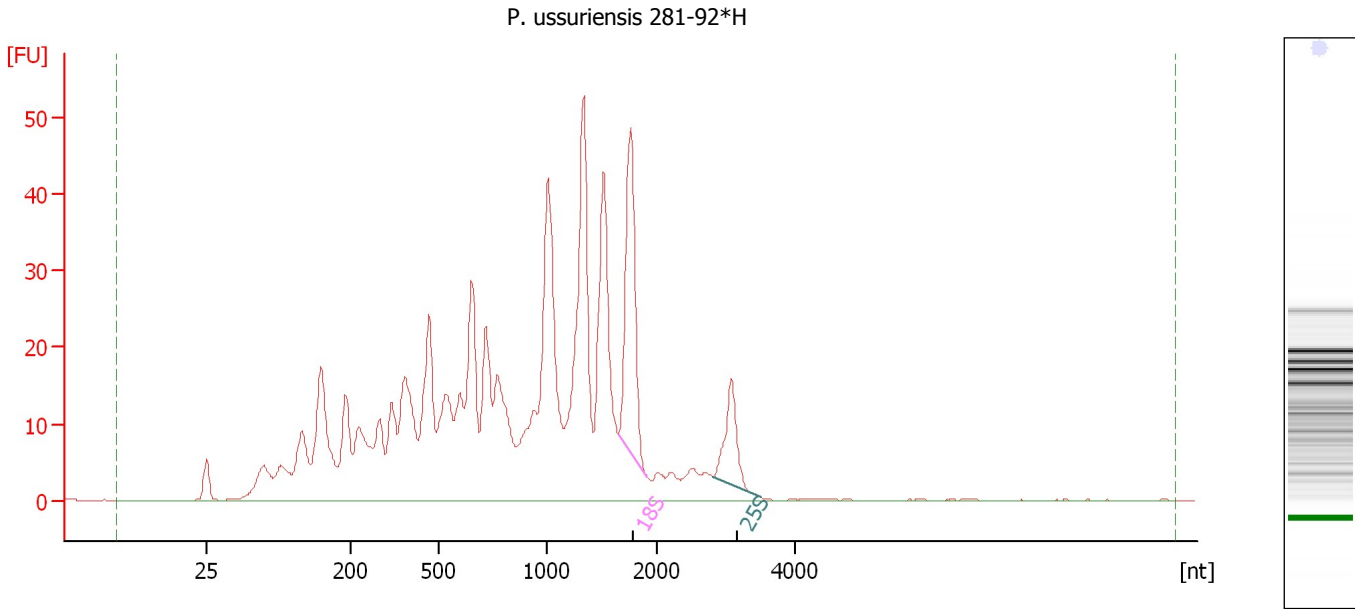
Fragment table for sample 10 : S. petiolaris 311-2005*A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	1,940	121.7	8.1
25S	2,945	3,381	85.5	5.7

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
 Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : P. ussuriensis 281-92*H

RNA Area:	731.3	RNA Integrity Number (RIN):	4.5 (B.02.08)
RNA Concentration:	742 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.4	Result Flagging Label:	RIN: 4.50

Fragment table for sample 11 : P. ussuriensis 281-92*H

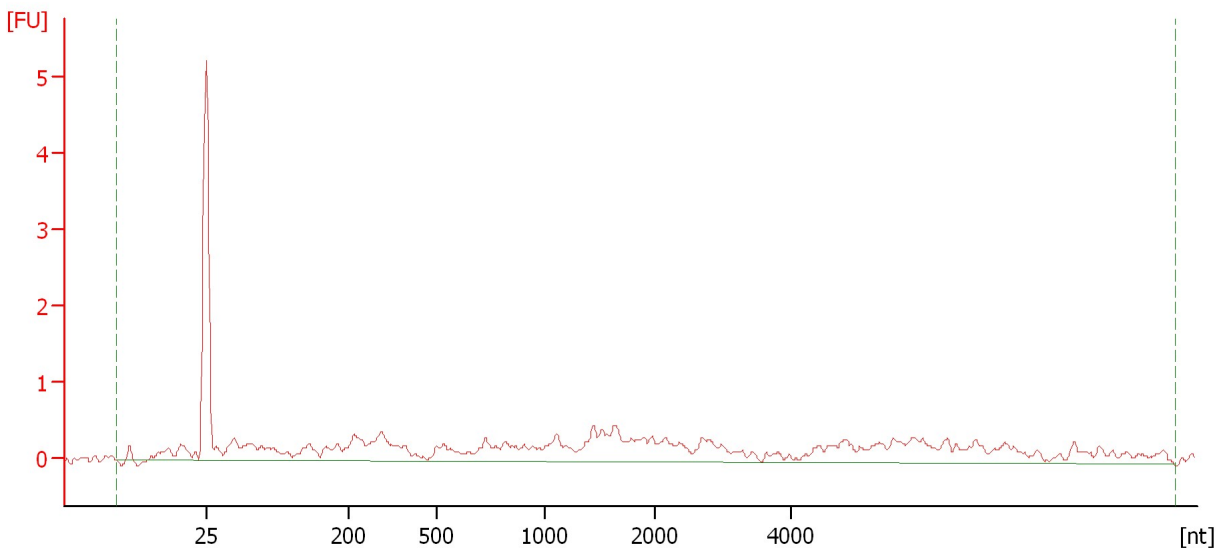
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,910	48.4	6.6
25S	2,821	3,522	17.7	2.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
Modified: 12/23/2014 12:01:45 PM

Electropherogram Summary Continued ...

P. maximowiczii 1160-80*A



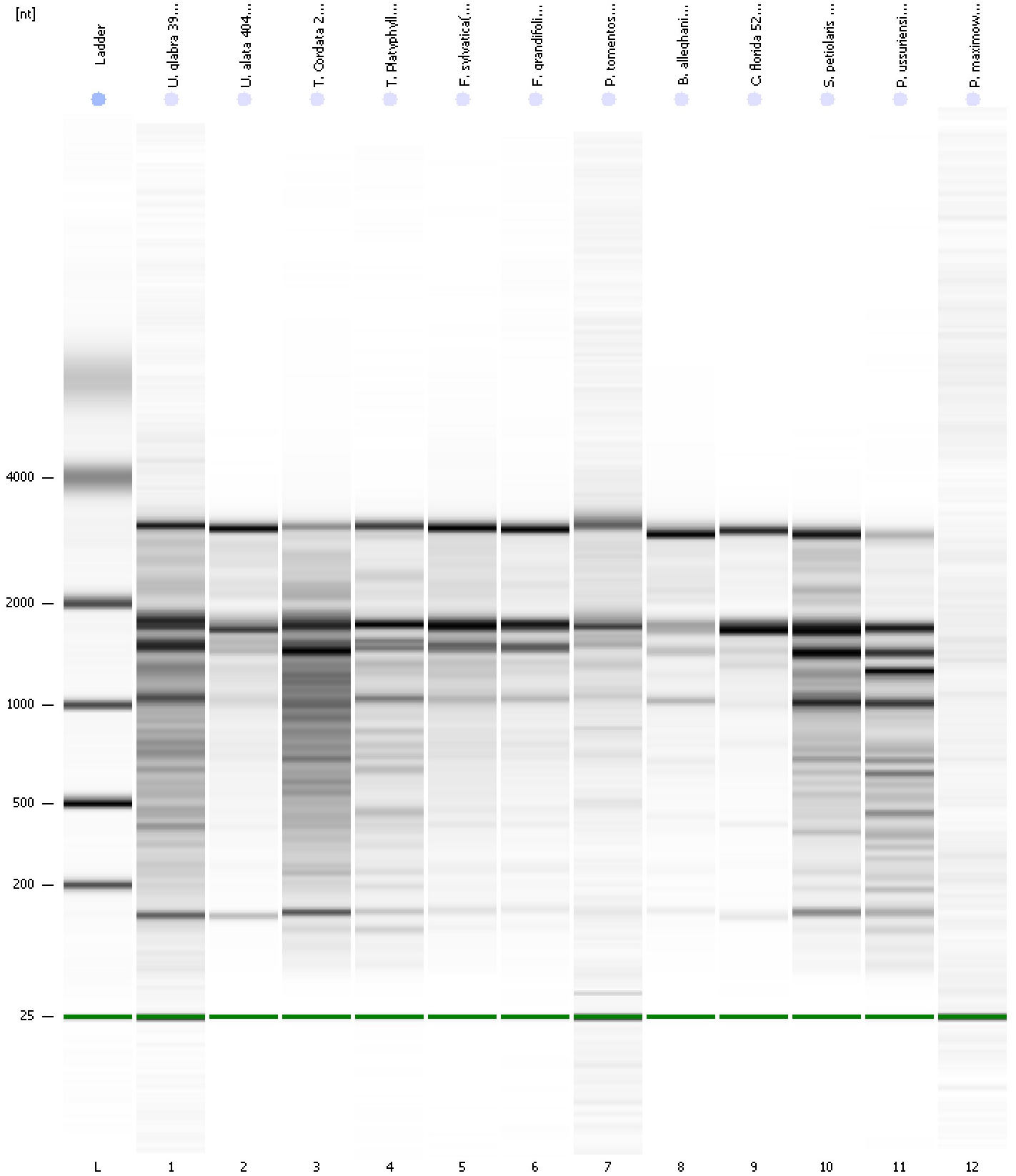
Overall Results for sample 12 : P. maximowiczii 1160-80*A

RNA Area:	20.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	21 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
Modified: 12/23/2014 12:01:45 PM

Gel Image



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad

Created: 12/23/2014 11:37:53 AM
 Modified: 12/23/2014 12:01:45 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		12/23/2014 12:01:43 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-12-23\2014-12-23_001.xad)		Instrument	Run		12/23/2014 11:37:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/23/2014 11:37:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/23/2014 11:37:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/23/2014 11:37:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/23/2014 11:37:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/23/2014 11:37:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/23/2014 11:37:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1