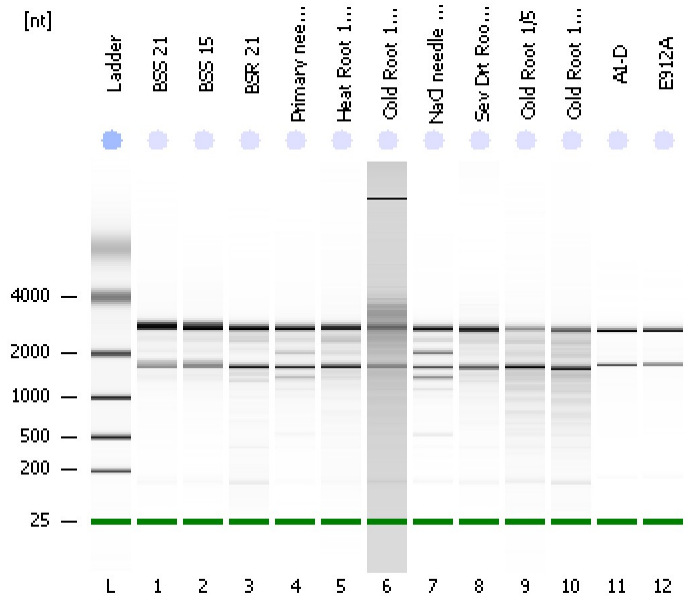


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 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

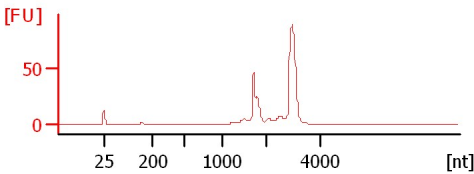
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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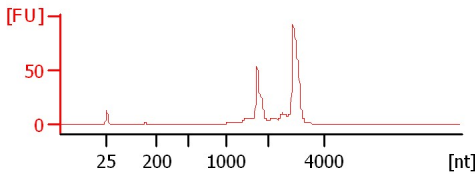
Chip Information:

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

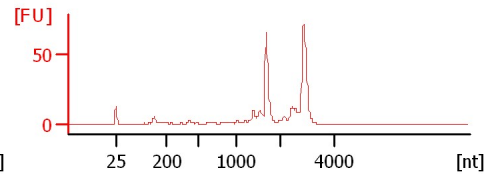
BSS 21
RIN: 9.30



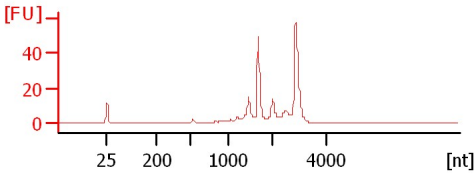
BSS 15
RIN: 9.30



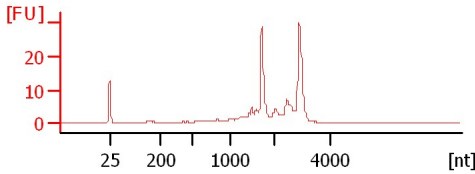
BSR 21
RIN:8



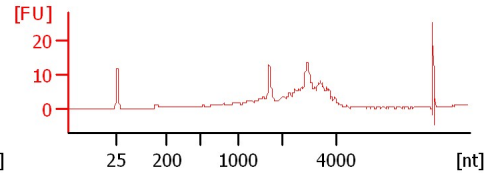
Primary needle 10/17
RIN:8



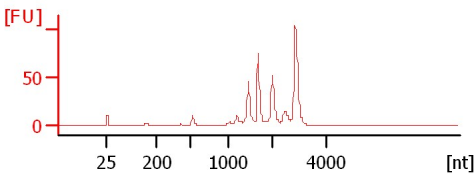
Heat Root 10/21
RIN: 7.80



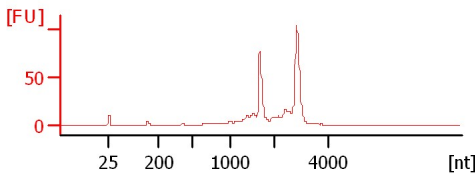
Cold Root 12/11
RIN: 6.50



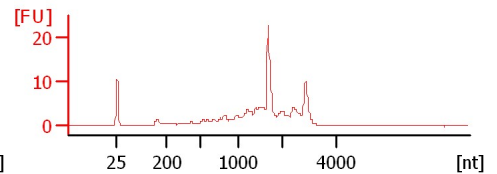
NaCl needle 1/6
RIN: 7.80



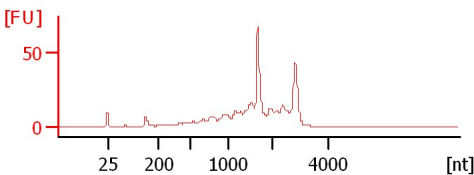
Sev Drt Root 11/12 0.5vol
RIN: 8.40



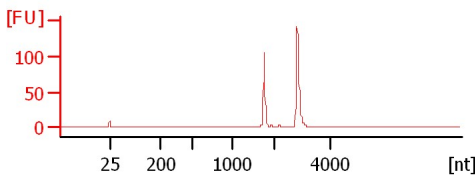
Cold Root 1/5
RIN: 6.50



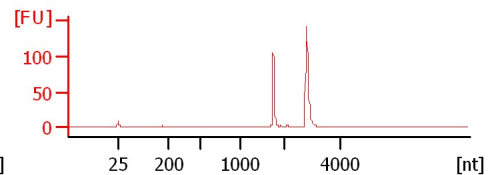
Cold Root 12/16
RIN: 6.30



A1-D
RIN:10



E912A
RIN:10



Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
BSS 21		✓	RIN: 9.30	
BSS 15		✓	RIN: 9.30	
BSR 21		✓	RIN:8	
Primary needle 10/17		✓	RIN:8	
Heat Root 10/21		✓	RIN: 7.80	
Cold Root 12/11		✓	RIN: 6.50	
NaCl needle 1/6		✓	RIN: 7.80	
Sev Drt Root 11/12 0.5vol		✓	RIN: 8.40	
Cold Root 1/5		✓	RIN: 6.50	
Cold Root 12/16		✓	RIN: 6.30	
A1-D		✓	RIN:10	
E912A		✓	RIN:10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 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

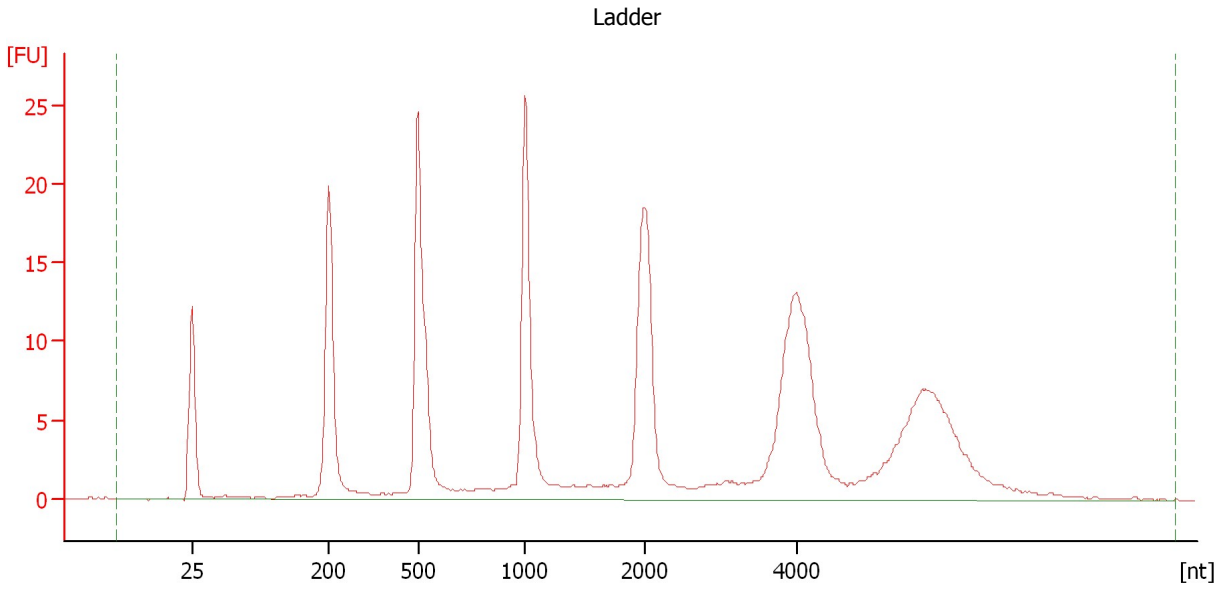
Ladder

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\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary



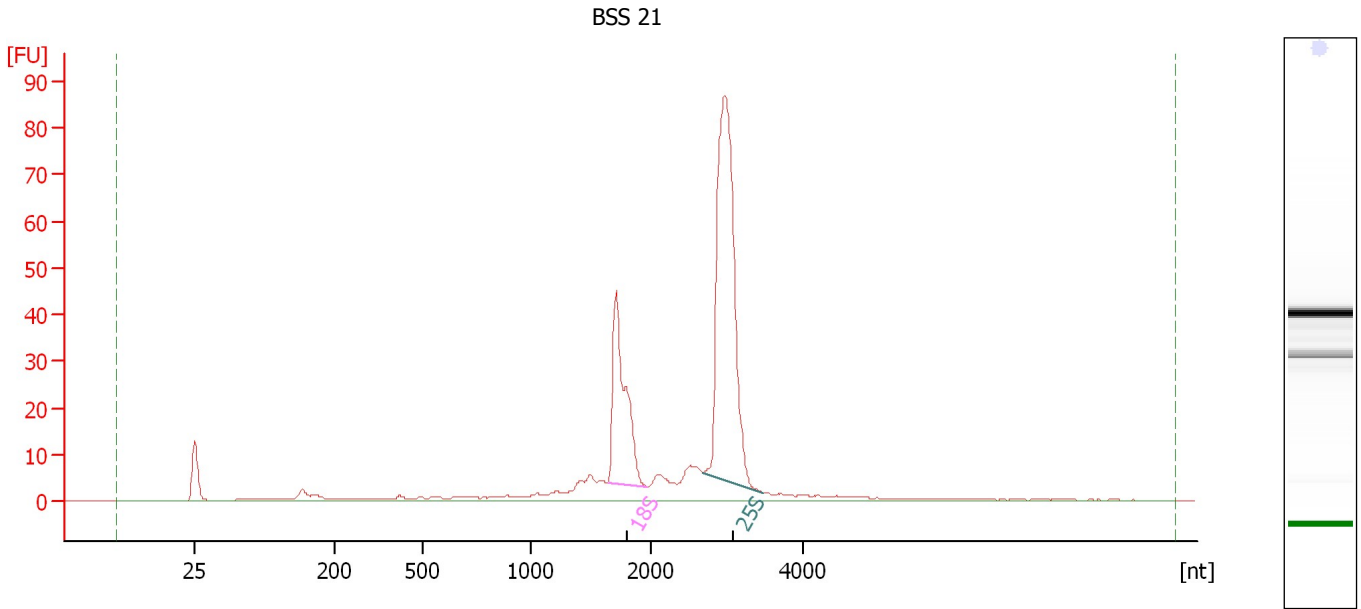
Overall Results for Ladder

RNA Area:	252.9	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\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : BSS 21

RNA Area: 352.1 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 209 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.6 Result Flagging Label: RIN: 9.30

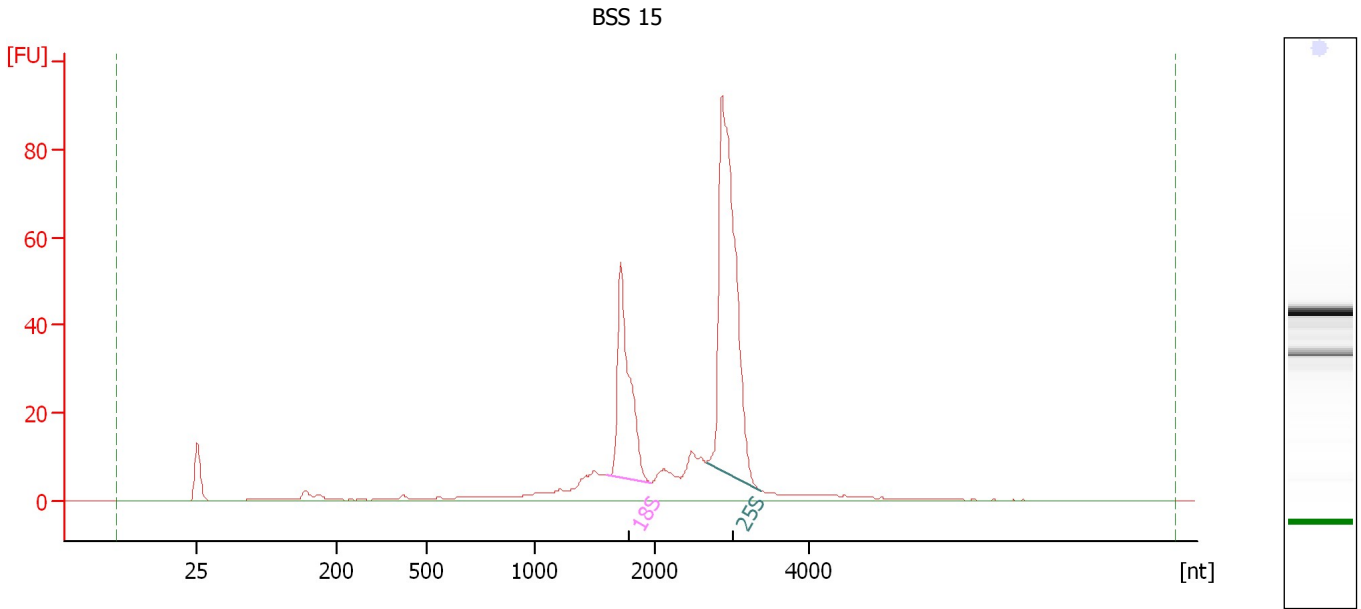
Fragment table for sample 1 : BSS 21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	1,966	61.3	17.4
25S	2,688	3,472	158.9	45.1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : BSS 15

RNA Area: 402.5 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 239 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.2 Result Flagging Label: RIN: 9.30

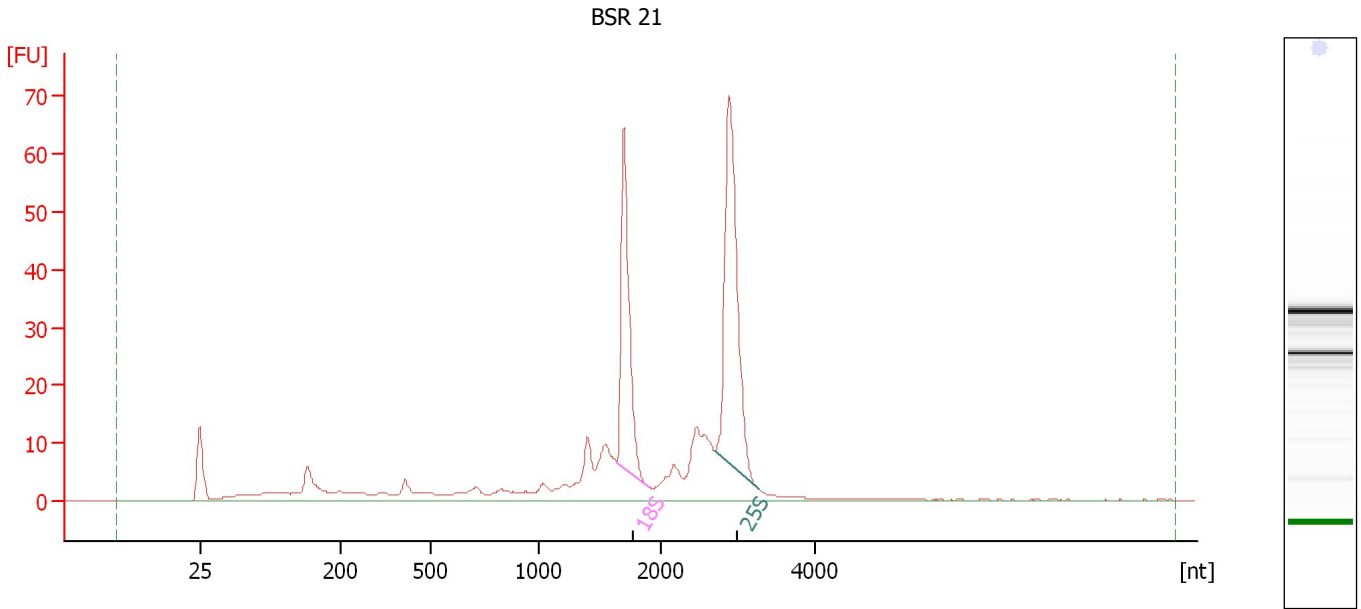
Fragment table for sample 2 : BSS 15

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,959	71.6	17.8
25S	2,674	3,370	157.7	39.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : BSR 21

RNA Area:	344.6	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	204 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN:8

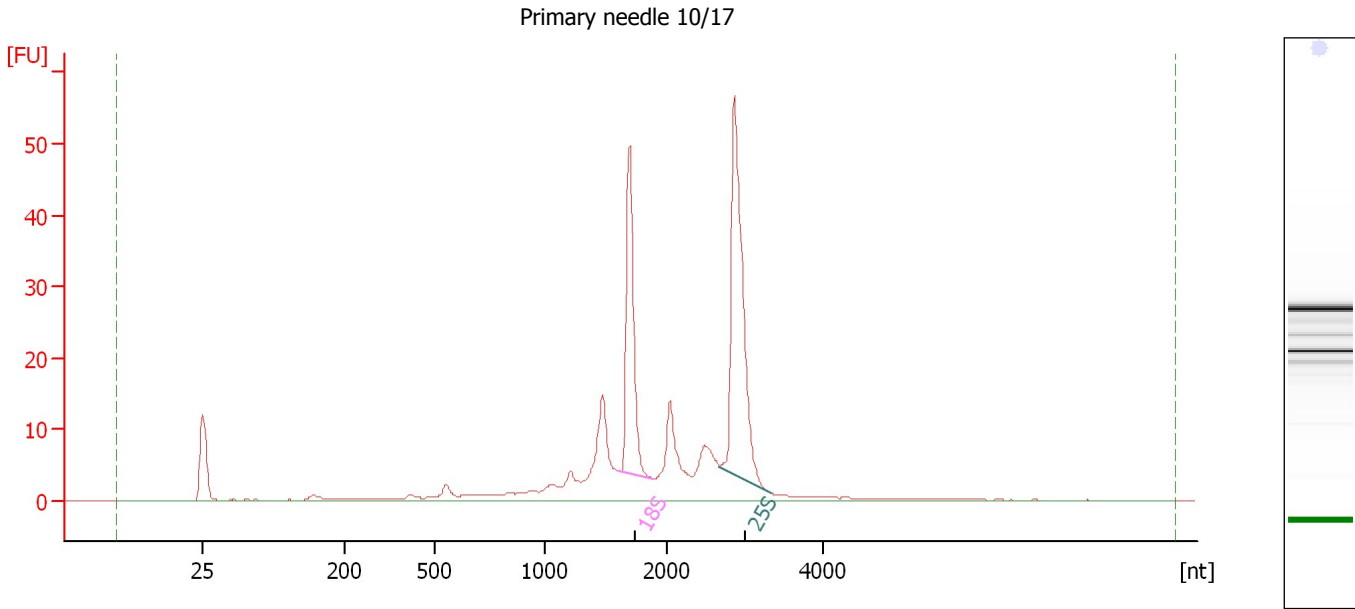
Fragment table for sample 3 : BSR 21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,900	58.6	17.0
25S	2,687	3,268	88.3	25.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Primary needle 10/17

RNA Area: 242.1 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 144 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.7 Result Flagging Label: RIN:8

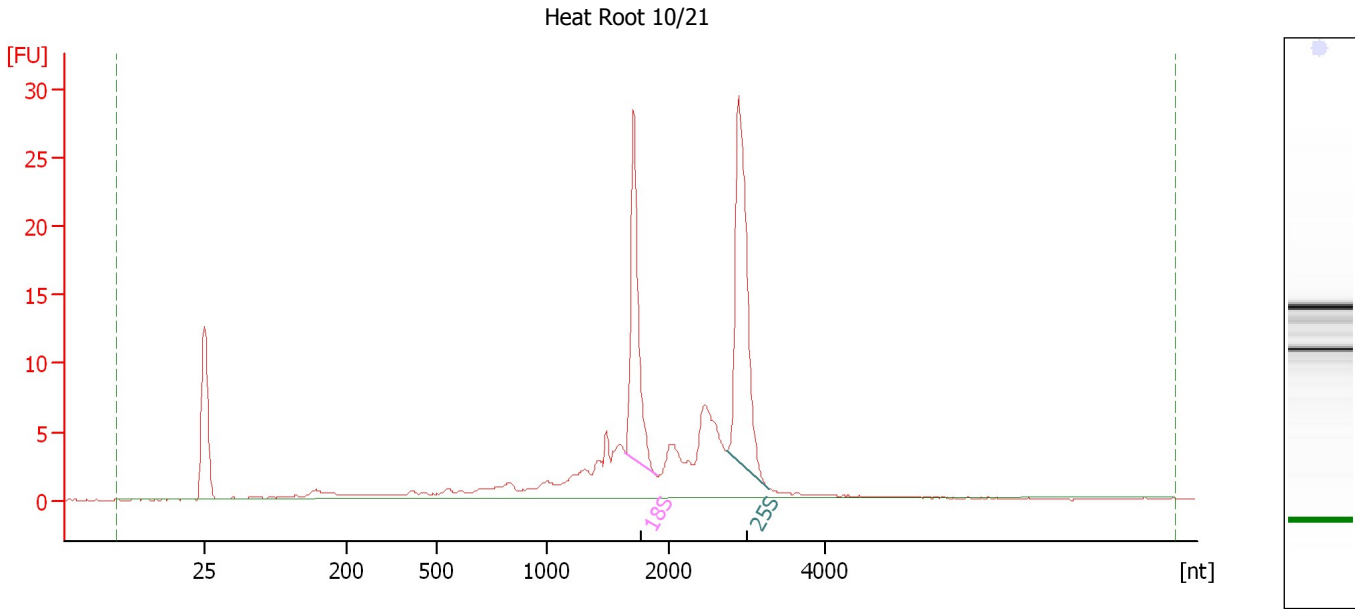
Fragment table for sample 4 : Primary needle 10/17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,597	1,885	39.2	16.2
25S	2,672	3,332	66.5	27.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Heat Root 10/21

RNA Area: 143.5 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 85 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 7.80

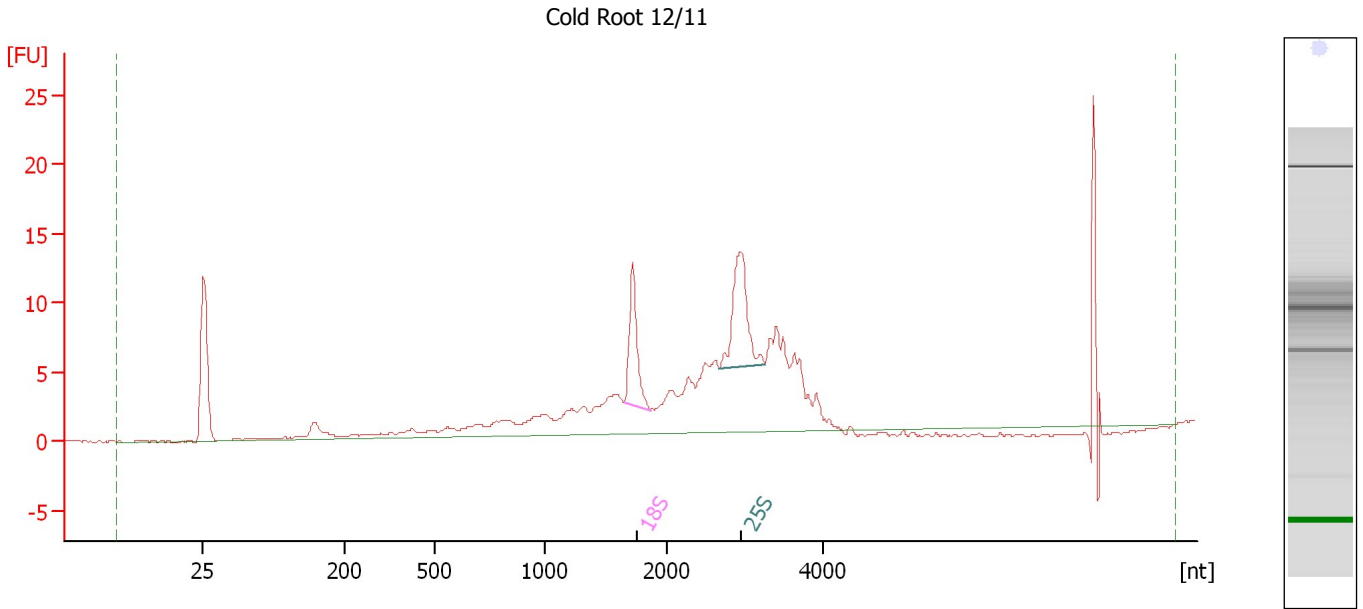
Fragment table for sample 5 : Heat Root 10/21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,642	1,895	23.9	16.7
25S	2,726	3,275	34.0	23.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Cold Root 12/11

RNA Area: 138.2 RNA Integrity Number (RIN): 6.5 (B.02.08)
RNA Concentration: 82 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 6.50

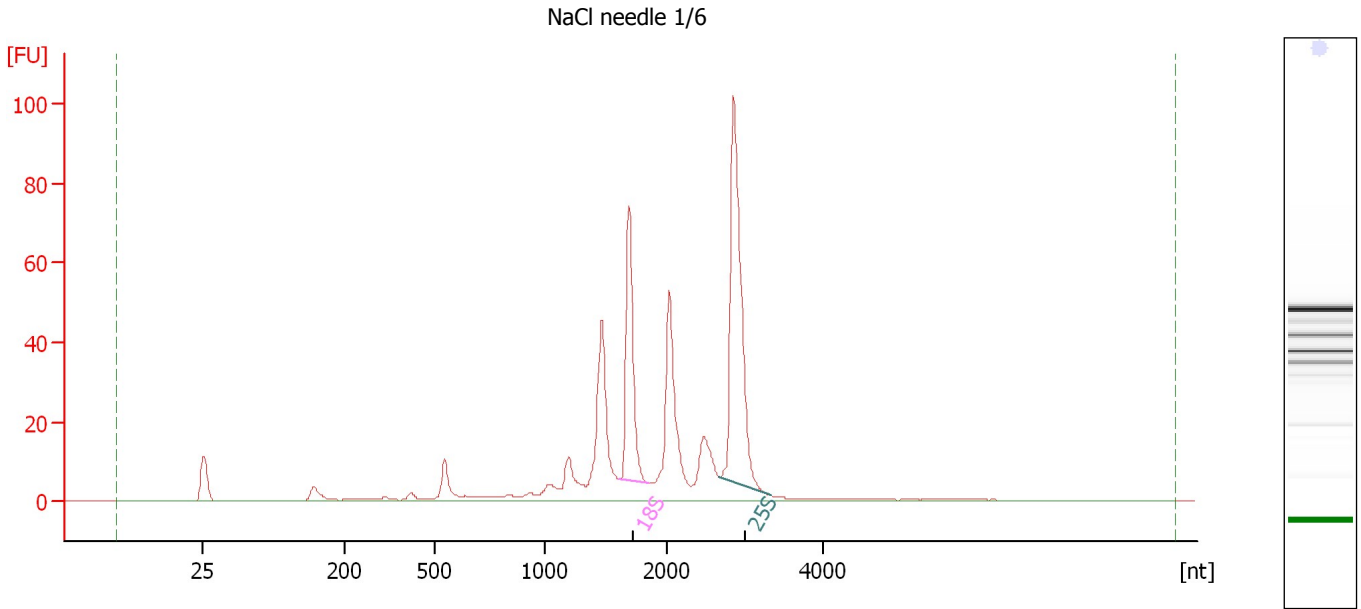
Fragment table for sample 6 : Cold Root 12/11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	1,859	9.5	6.8
25S	2,658	3,263	13.2	9.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : NaCl needle 1/6

RNA Area: 434.3 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 258 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.0 Result Flagging Label: RIN: 7.80

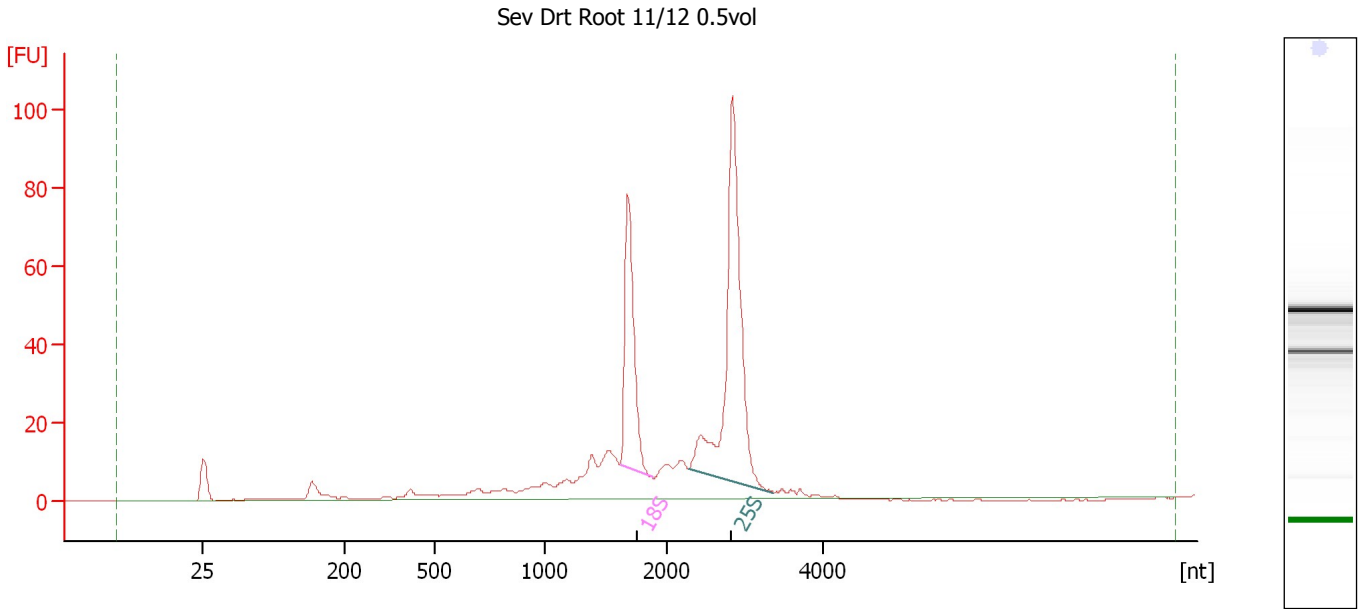
Fragment table for sample 7 : NaCl needle 1/6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,597	1,850	56.7	13.1
25S	2,672	3,332	116.1	26.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sev Drt Root 11/12 0.5vol

RNA Area:	452.7	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	269 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	2.1	Result Flagging Label:	RIN: 8.40

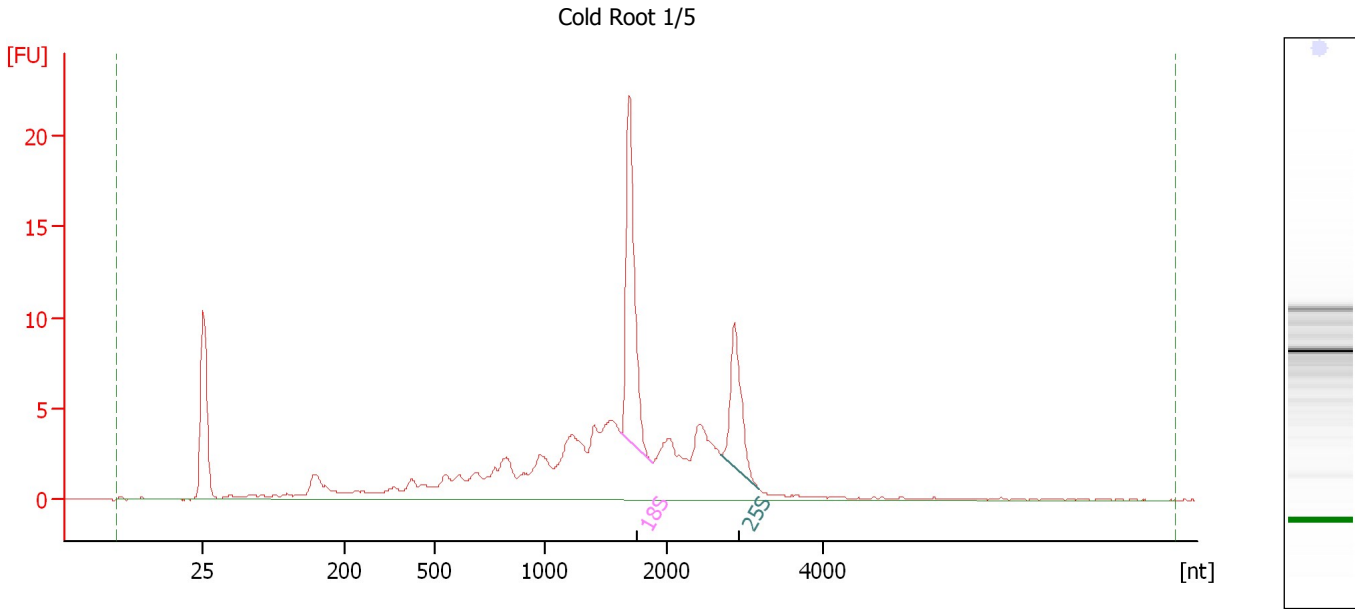
Fragment table for sample 8 : Sev Drt Root 11/12 0.5vol

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	1,876	76.3	16.9
25S	2,273	3,359	160.5	35.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Cold Root 1/5

RNA Area: 130.3 RNA Integrity Number (RIN): 6.5 (B.02.08)
RNA Concentration: 77 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.5 Result Flagging Label: RIN: 6.50

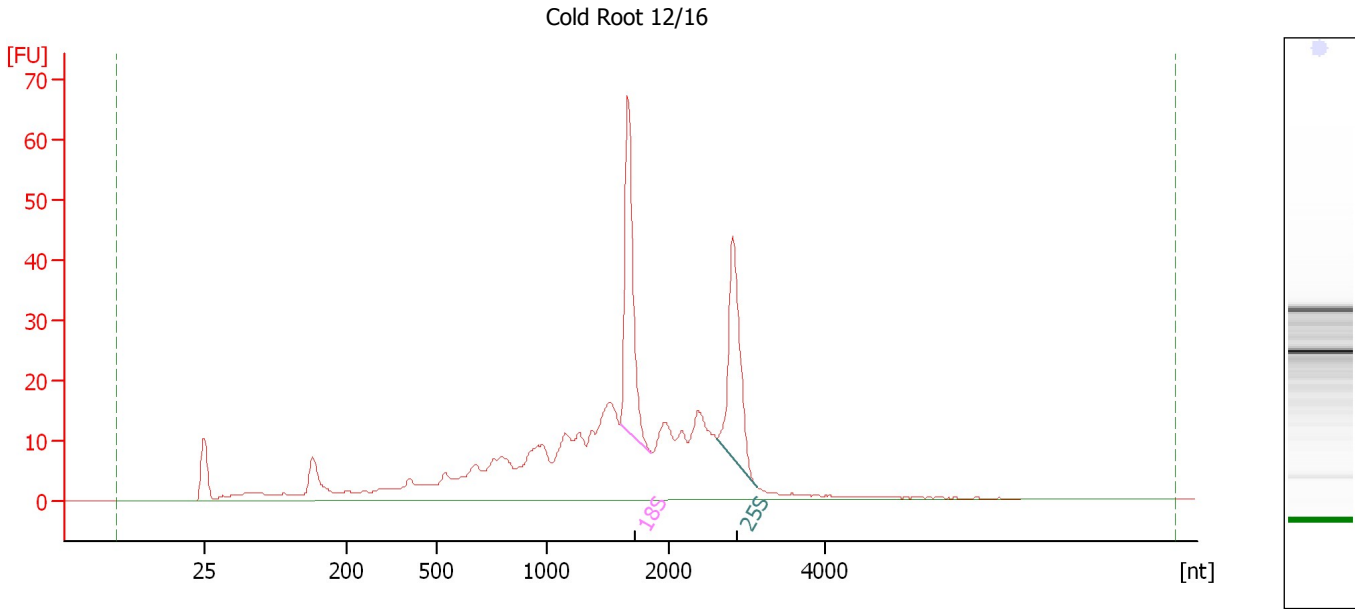
Fragment table for sample 9 : Cold Root 1/5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,623	1,876	18.9	14.5
25S	2,699	3,181	9.6	7.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Cold Root 12/16

RNA Area: 475.1 RNA Integrity Number (RIN): 6.3 (B.02.08)
RNA Concentration: 282 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.9 Result Flagging Label: RIN: 6.30

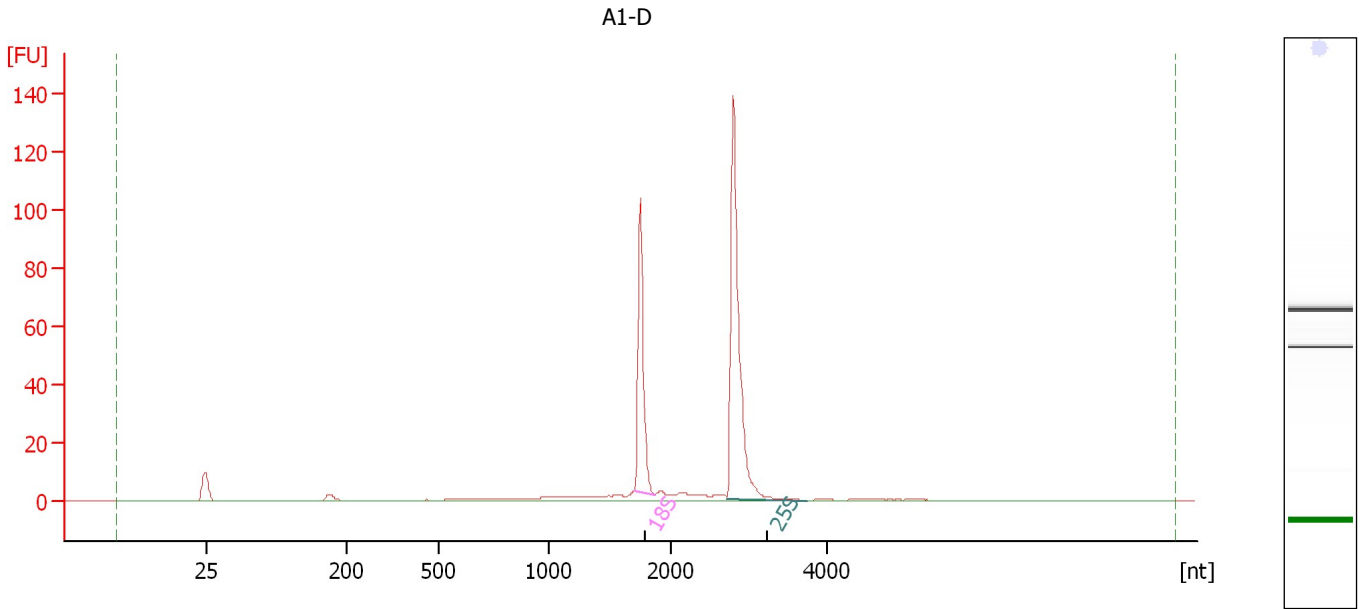
Fragment table for sample 10 : Cold Root 12/16

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,599	1,851	53.8	11.3
25S	2,616	3,111	47.5	10.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : A1-D

RNA Area: 258.6 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 153 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN:10

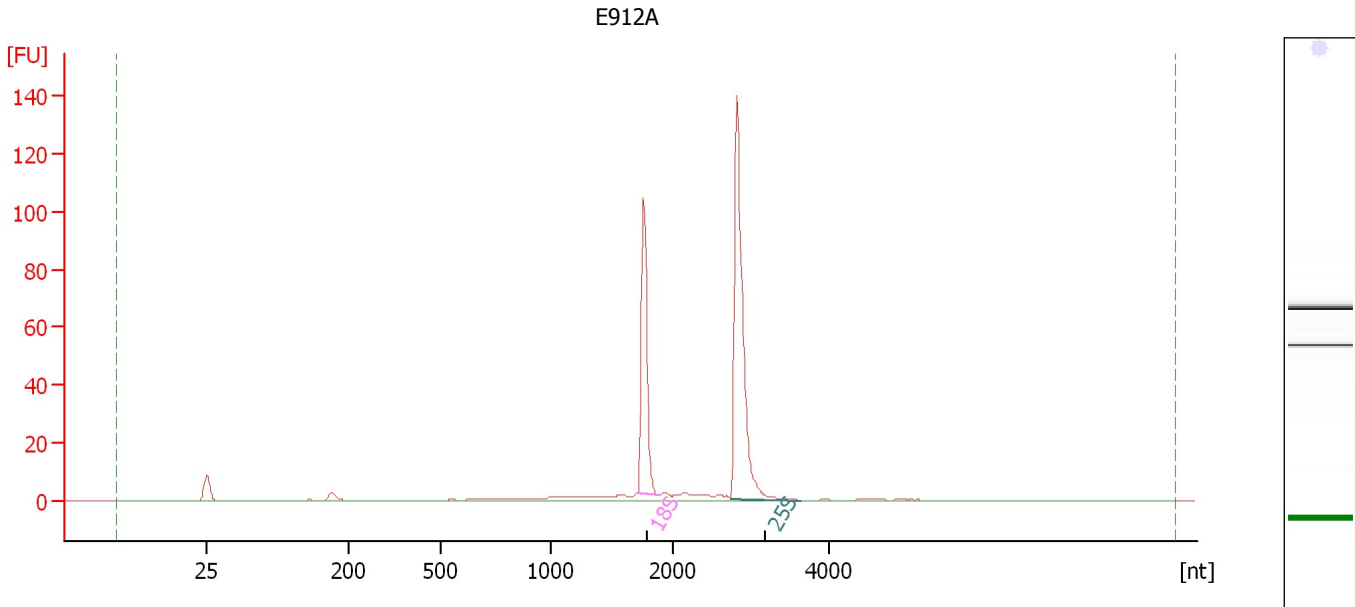
Fragment table for sample 11 : A1-D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	1,869	65.5	25.3
25S	2,712	3,739	126.6	49.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : E912A

RNA Area: 252.8 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 150 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN:10

Fragment table for sample 12 : E912A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,706	1,879	65.7	26.0
25S	2,725	3,641	126.2	49.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_002.xad

Created: 6/11/2015 1:32:48 PM
Modified: 6/11/2015 1:56:35 PM

Gel Image

