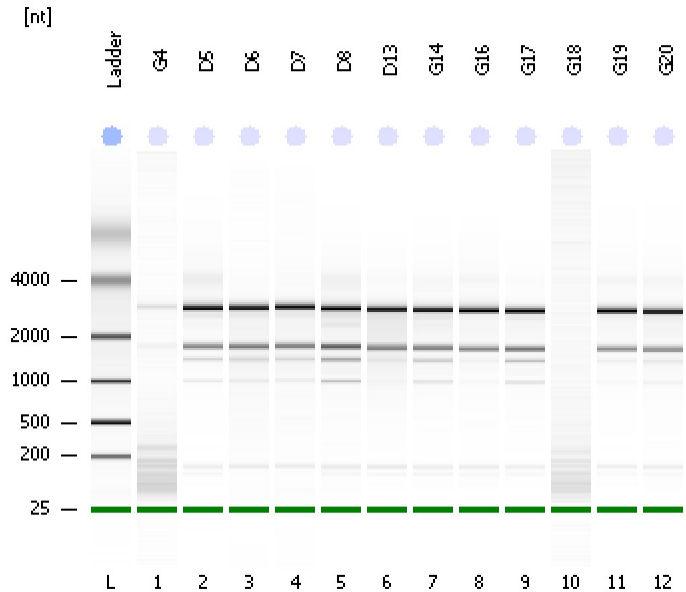


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 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

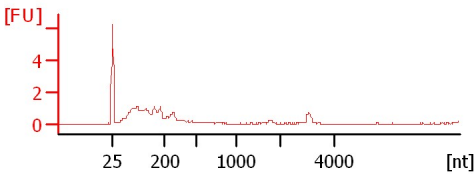
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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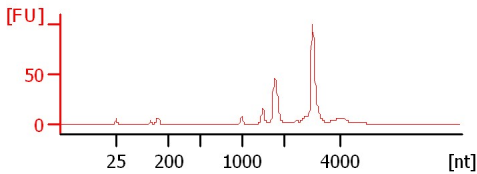
Chip Information:

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

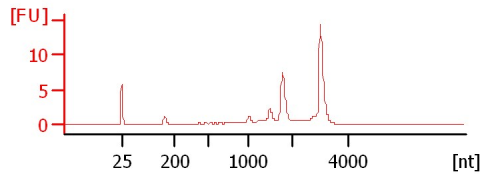
G4
RIN: 2.10



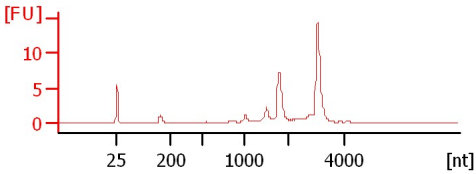
D5
RIN: 8.90



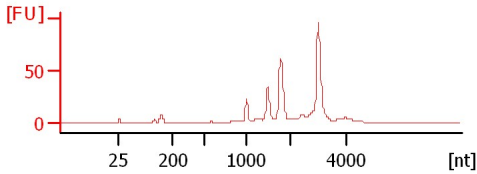
D6
RIN: 8.50



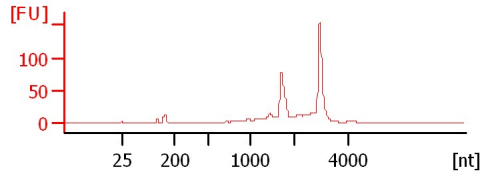
D7
RIN: 8.70



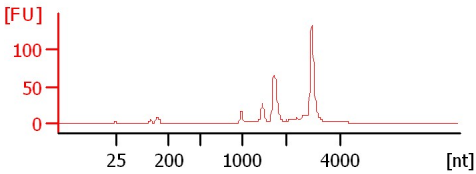
D8
RIN: 8.10



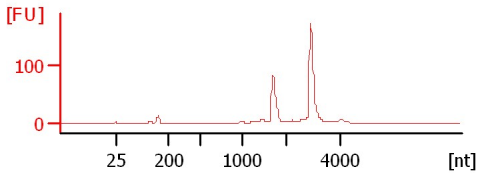
D13
RIN: 8.40



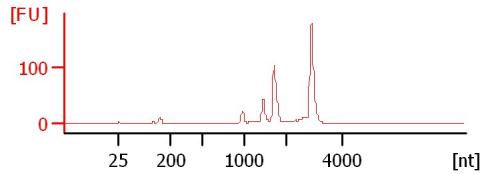
G14
RIN: 8.50



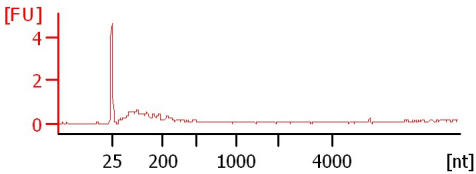
G16
RIN: 9



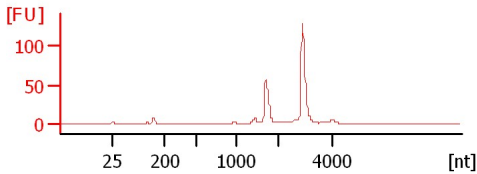
G17
RIN: 8.60



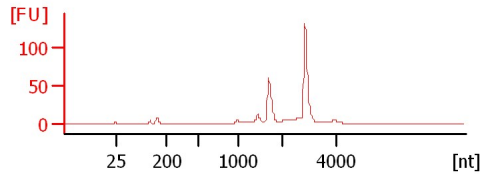
G18
RIN: 1.40



G19
RIN: 9



G20
RIN: 8.70



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
 Modified: 9/4/2013 10:59:52 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
G4		✓	RIN: 2.10	
D5		✓	RIN: 8.90	
D6		✓	RIN: 8.50	
D7		✓	RIN: 8.70	
D8		✓	RIN: 8.10	
D13		✓	RIN: 8.40	
G14		✓	RIN: 8.50	
G16		✓	RIN:9	
G17		✓	RIN: 8.60	
G18		✓	RIN: 1.40	
G19		✓	RIN:9	
G20		✓	RIN: 8.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 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

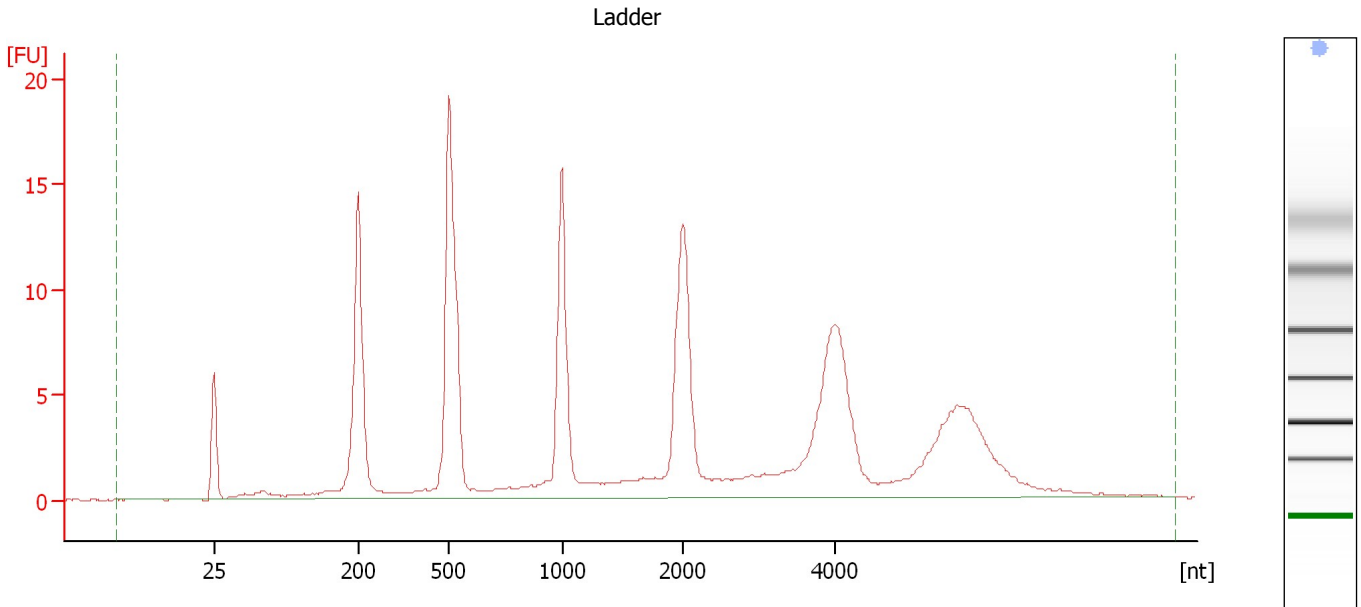
Ladder

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\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary



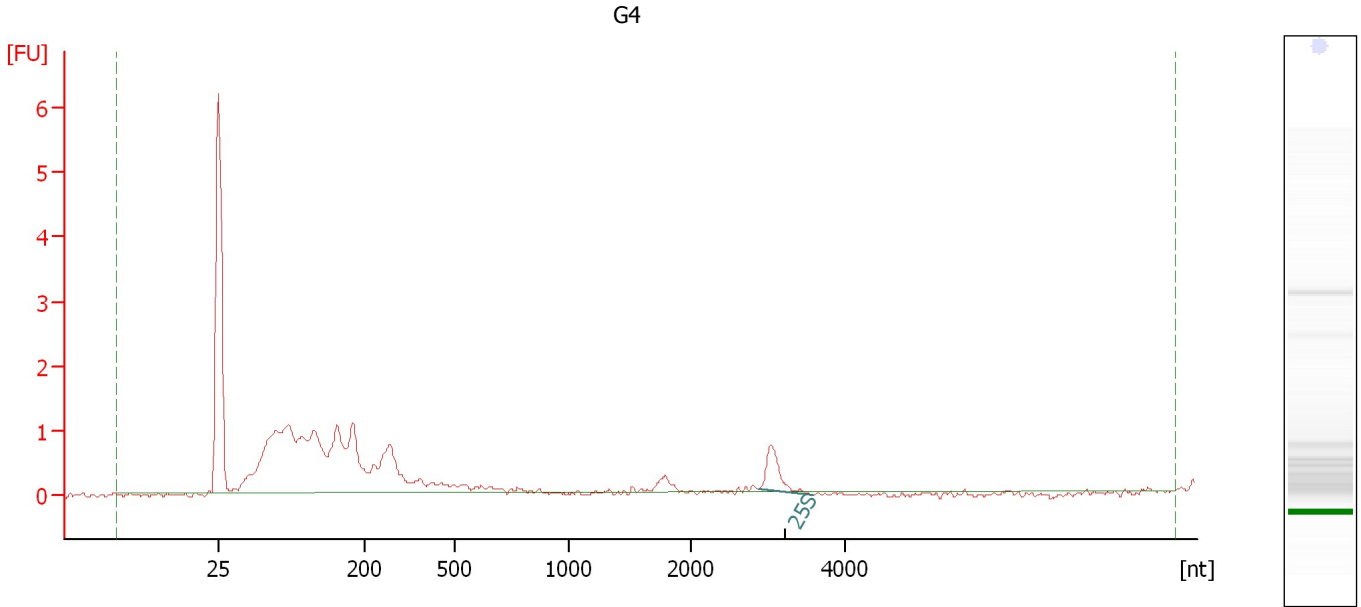
Overall Results for Ladder

RNA Area:	177.7	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : G4

RNA Area:	21.5	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	18 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

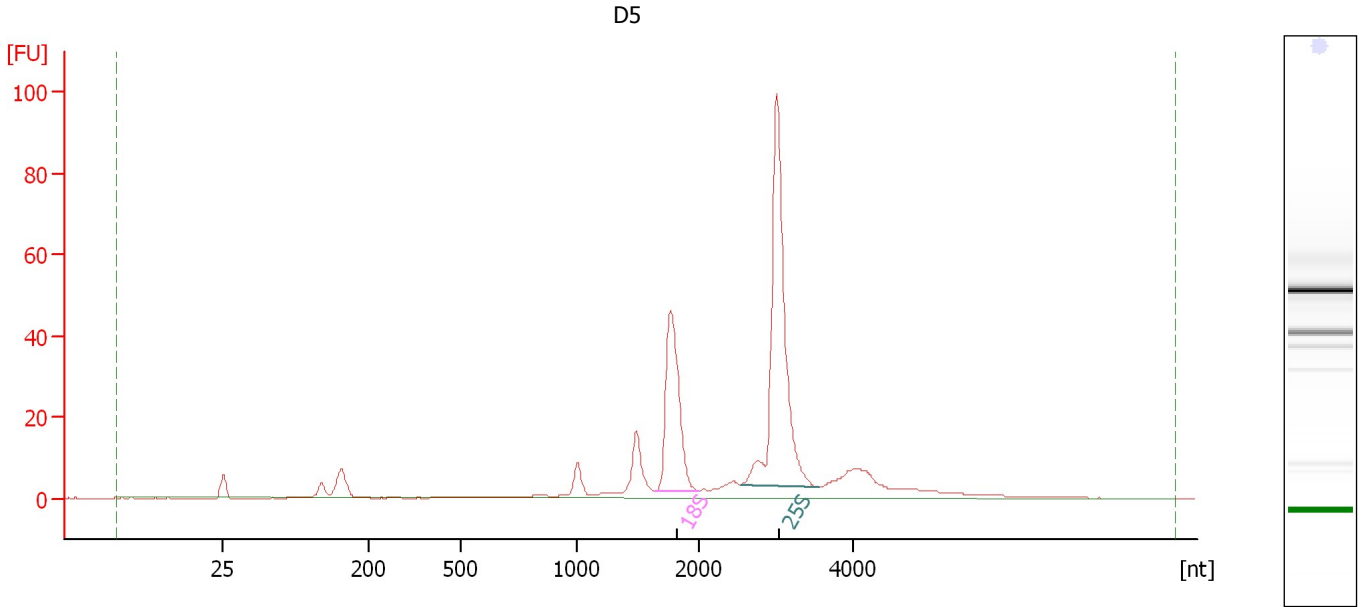
Fragment table for sample 1 : G4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,870	3,583	1.0	4.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : D5

RNA Area: 355.6 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 300 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN: 8.90

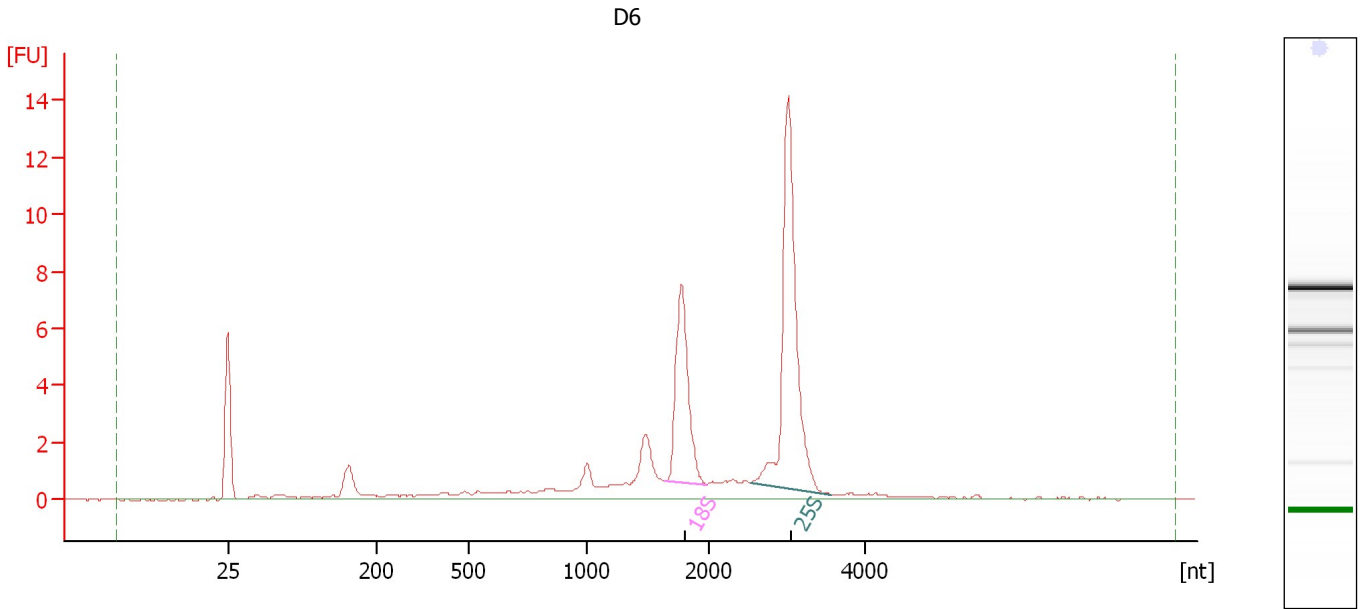
Fragment table for sample 2 : D5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,631	1,988	69.9	19.7
25S	2,536	3,547	134.7	37.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : D6

RNA Area: 55.1 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 47 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN: 8.50

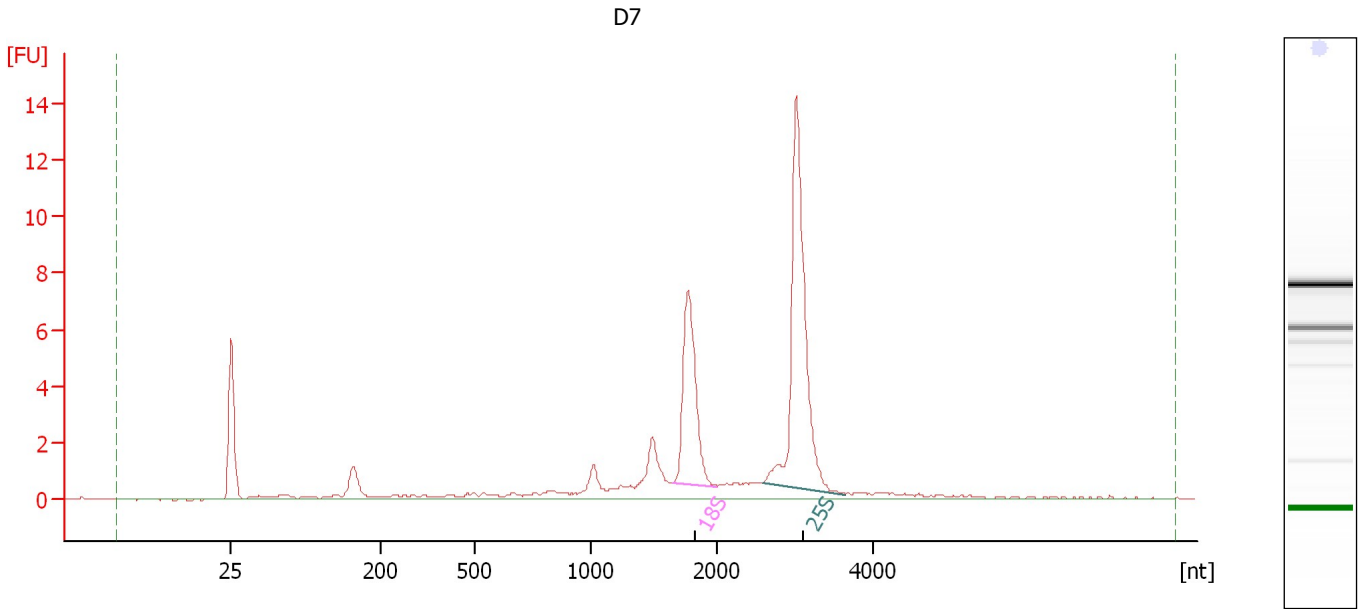
Fragment table for sample 3 : D6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,630	1,975	10.1	18.3
25S	2,522	3,551	19.1	34.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : D7

RNA Area: 52.8 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 45 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN: 8.70

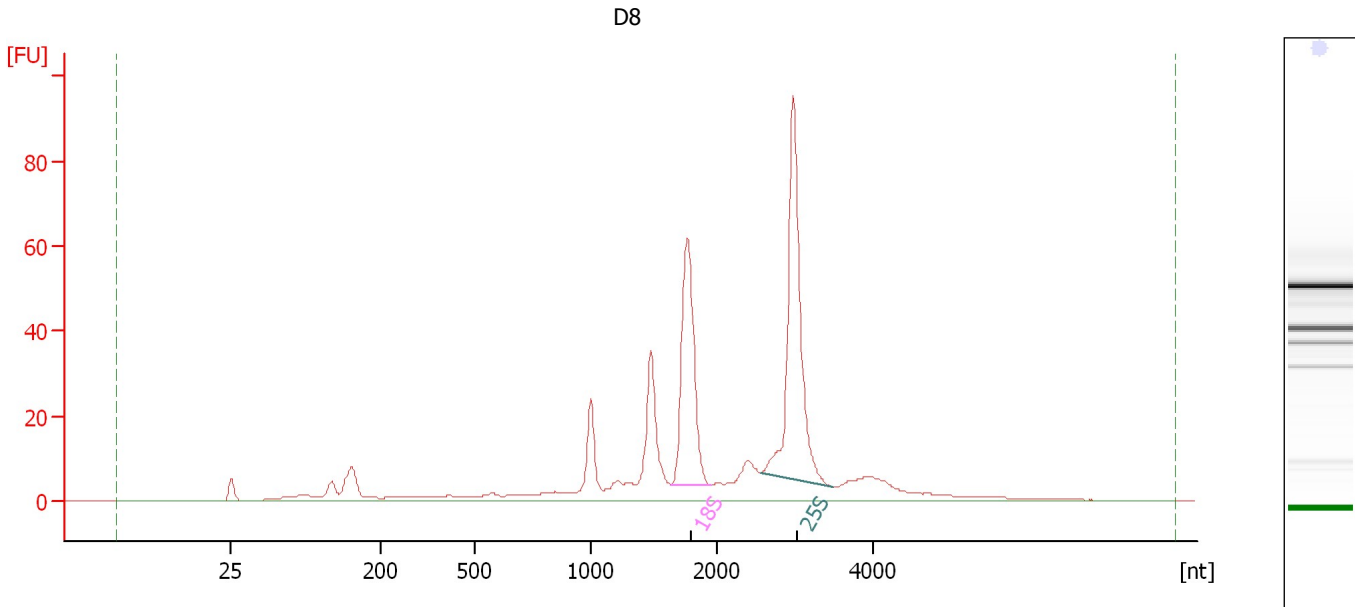
Fragment table for sample 4 : D7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,652	2,019	10.1	19.2
25S	2,591	3,654	19.3	36.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : D8

RNA Area: 478.5 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 404 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 8.10

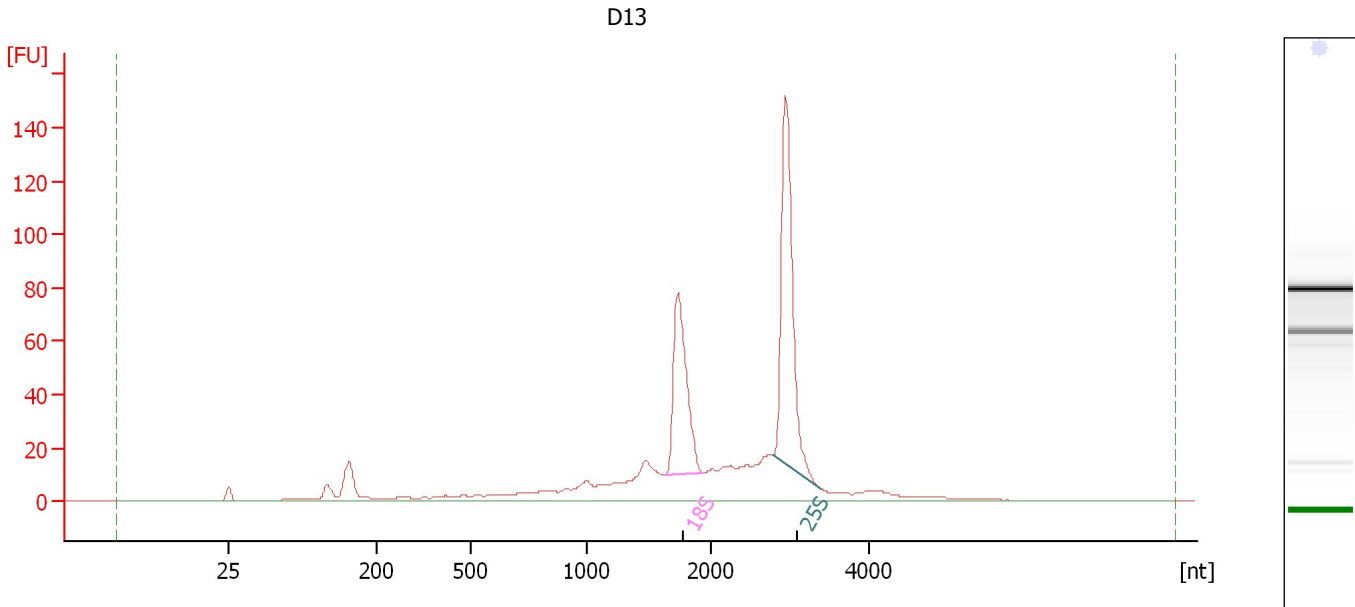
Fragment table for sample 5 : D8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	1,960	84.0	17.6
25S	2,577	3,504	119.2	24.9

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
 Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : D13

RNA Area:	655.1	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	553 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN: 8.40

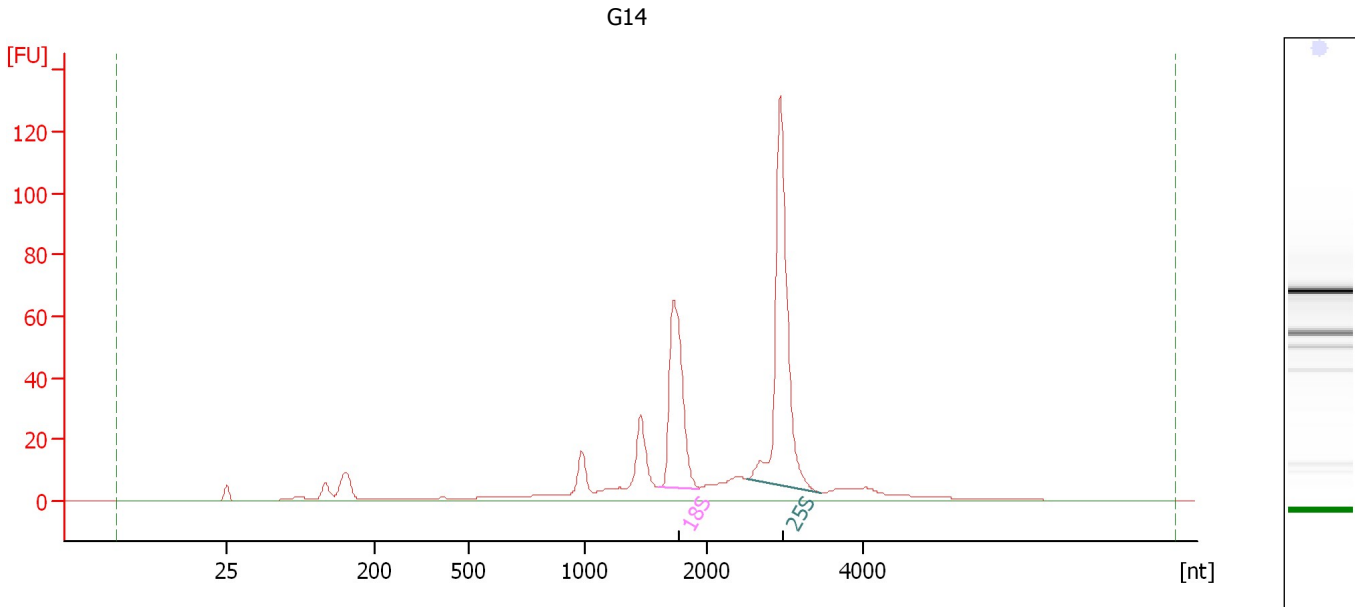
Fragment table for sample 6 : D13

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	1,933	104.4	15.9
25S	2,769	3,385	162.2	24.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : G14

RNA Area: 504.1 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 426 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.7 Result Flagging Label: RIN: 8.50

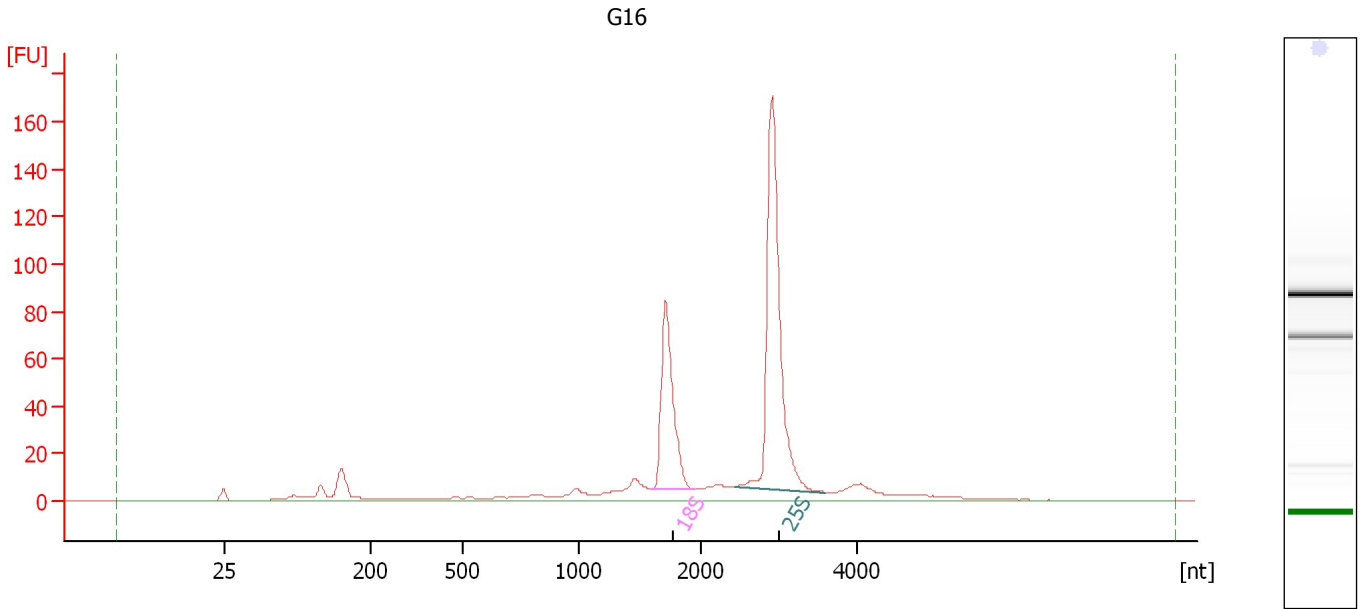
Fragment table for sample 7 : G14

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,931	93.2	18.5
25S	2,509	3,443	160.9	31.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : G16

RNA Area: 587.5 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 496 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.0 Result Flagging Label: RIN:9

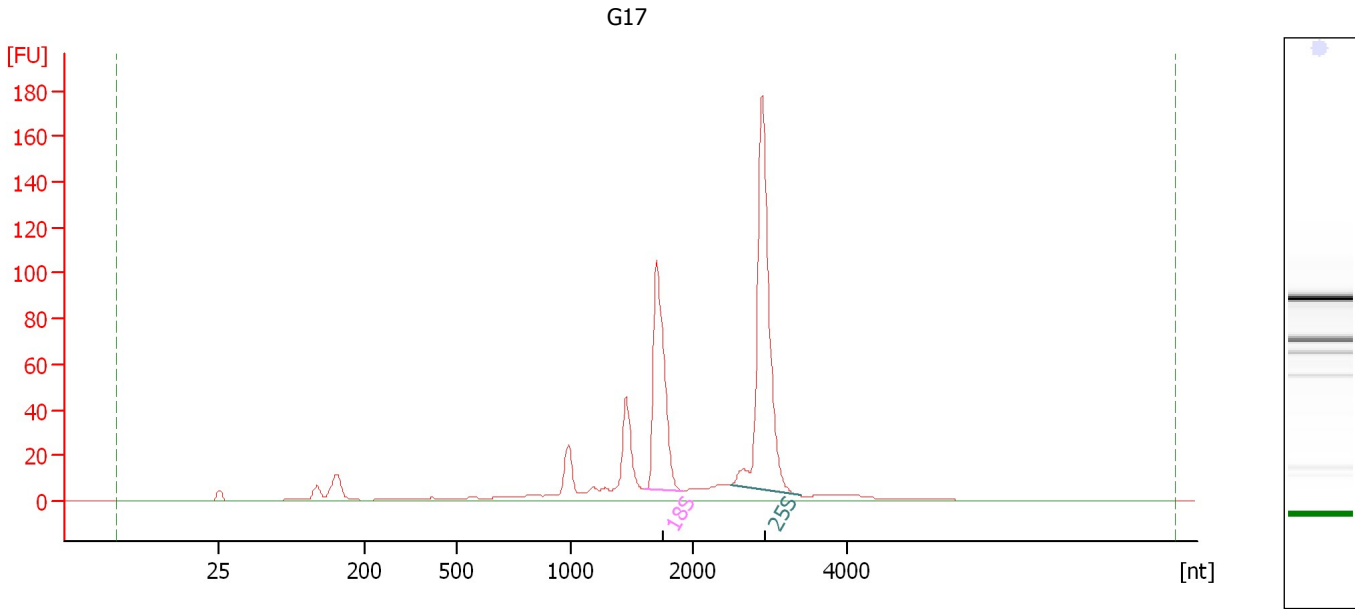
Fragment table for sample 8 : G16

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	1,937	110.1	18.7
25S	2,425	3,587	219.4	37.4

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
 Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : G17

RNA Area:	632.0	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	534 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.7	Result Flagging Label:	RIN: 8.60

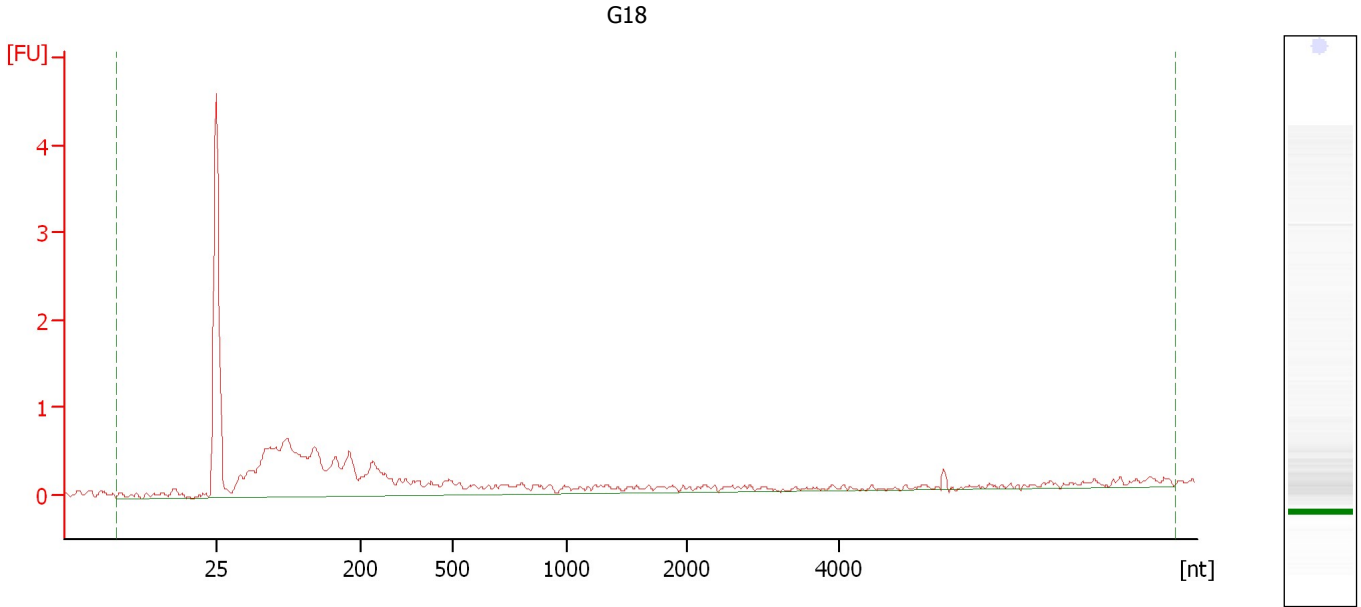
Fragment table for sample 9 : G17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	1,907	130.6	20.7
25S	2,480	3,400	226.1	35.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary Continued ...



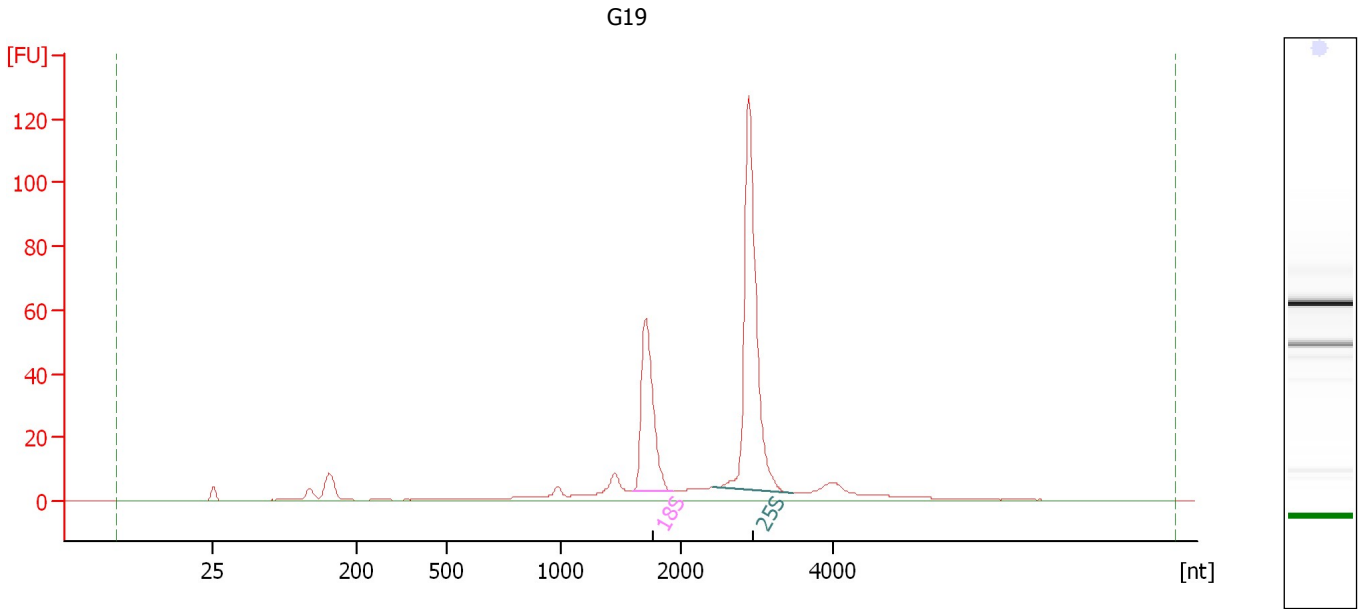
Overall Results for sample 10 : G18

RNA Area:	16.2	RNA Integrity Number (RIN):	1.4 (B.02.08)
RNA Concentration:	14 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.40

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : G19

RNA Area: 392.1 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 331 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.1 Result Flagging Label: RIN:9

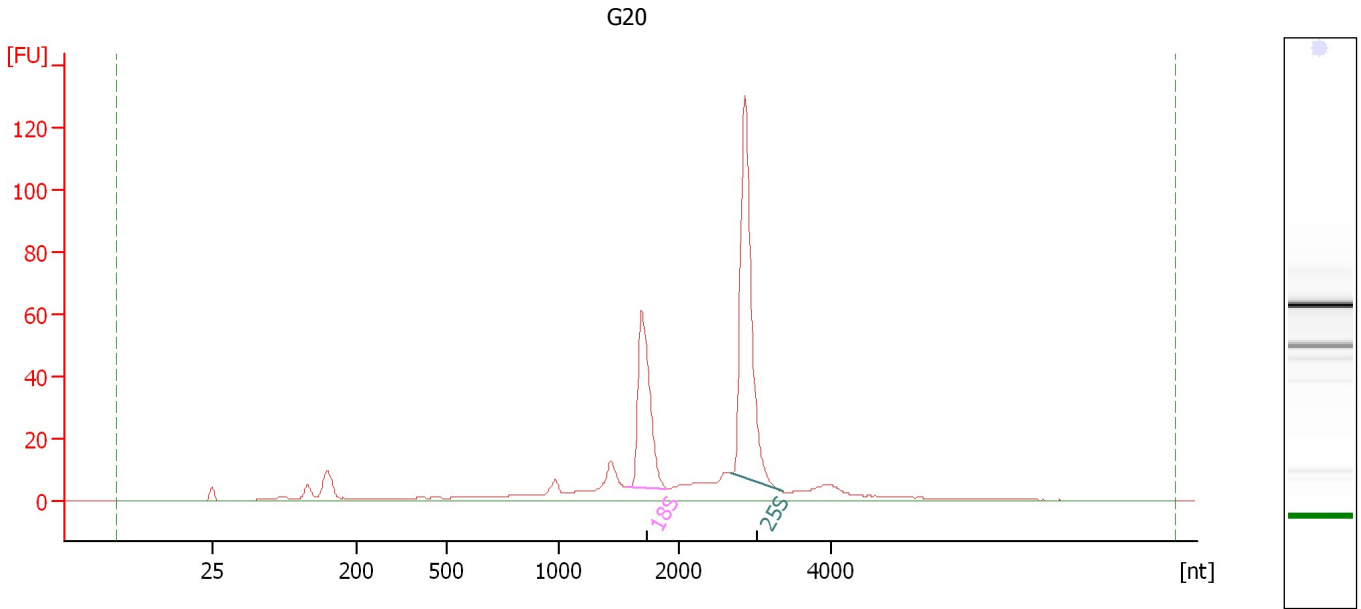
Fragment table for sample 11 : G19

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,591	1,928	77.0	19.6
25S	2,408	3,466	160.7	41.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-04\2013-09-04_001.xad

Created: 9/4/2013 10:31:22 AM
Modified: 9/4/2013 10:59:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : G20

RNA Area: 453.9 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 383 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 8.70

Fragment table for sample 12 : G20

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	1,900	81.6	18.0
25S	2,676	3,369	146.8	32.3