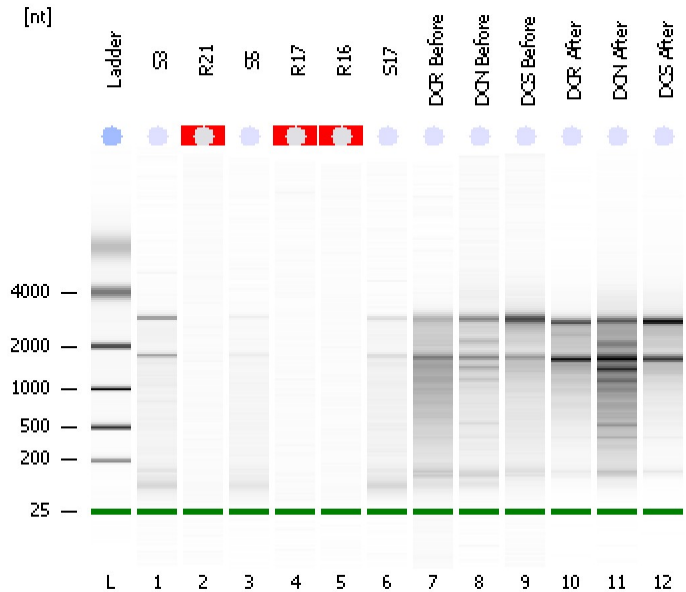


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 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:



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
 Modified: 4/15/2014 11:05:18 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
S3		✓	RIN: 6.80	
R21		✓	RIN N/A	
S5		✓	RIN: 1.90	
R17		✓	RIN N/A	
R16		✓	RIN N/A	
S17		✓	RIN: 5.70	
DCR Before		✓	RIN: 3.90	
DCN Before		✓	RIN:6	
DCS Before		✓	RIN: 7.10	
DCR After		✓	RIN: 6.80	
DCN After		✓	RIN: 4.40	
DCS After		✓	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\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 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

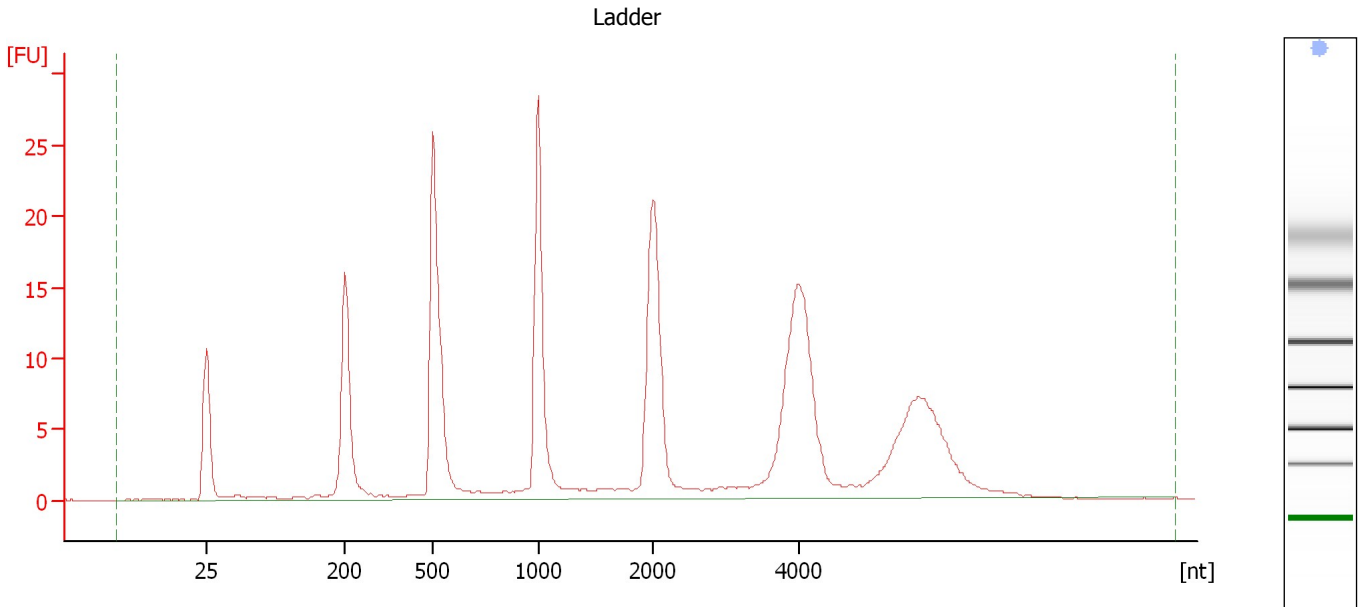
Ladder

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\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary



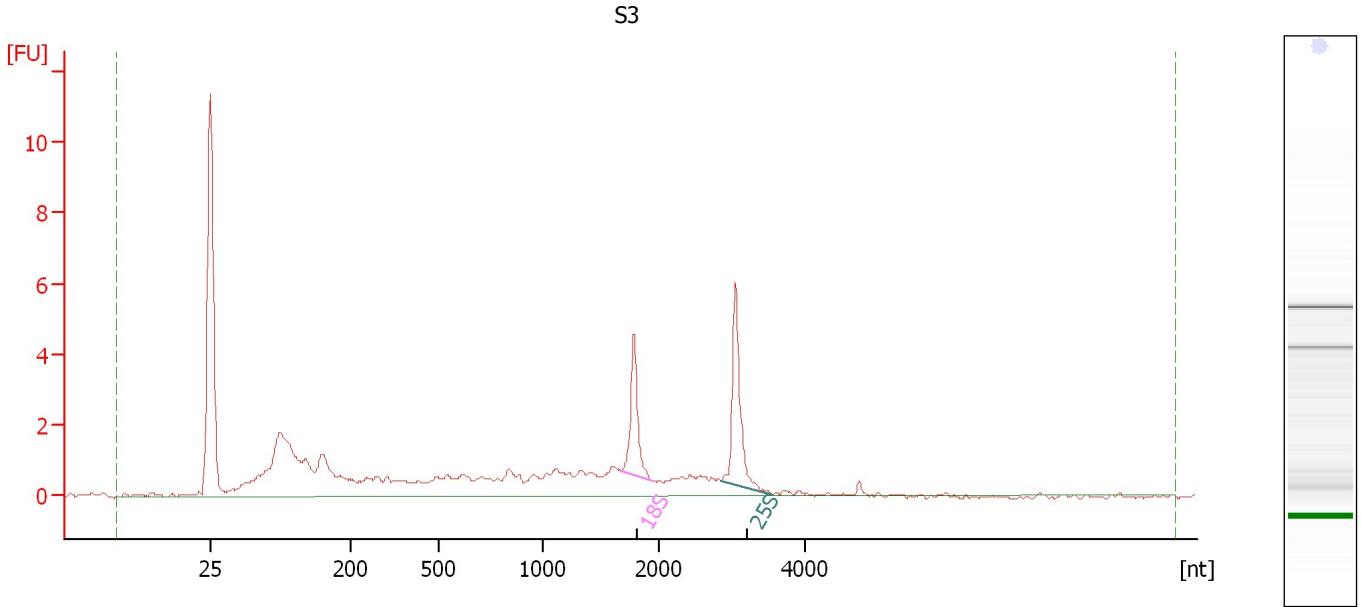
Overall Results for Ladder

RNA Area:	236.2	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\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : S3

RNA Area:	51.0	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	32 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 6.80

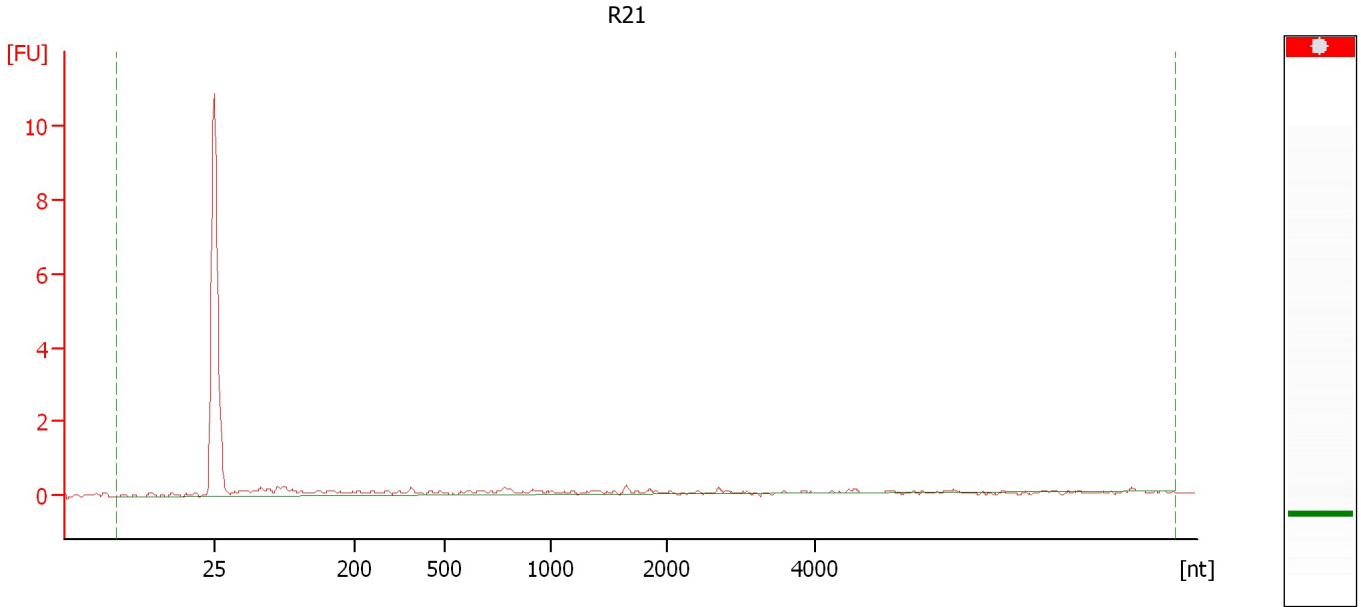
Fragment table for sample 1 : S3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,672	1,948	3.6	7.0
25S	2,838	3,554	5.0	9.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary Continued ...



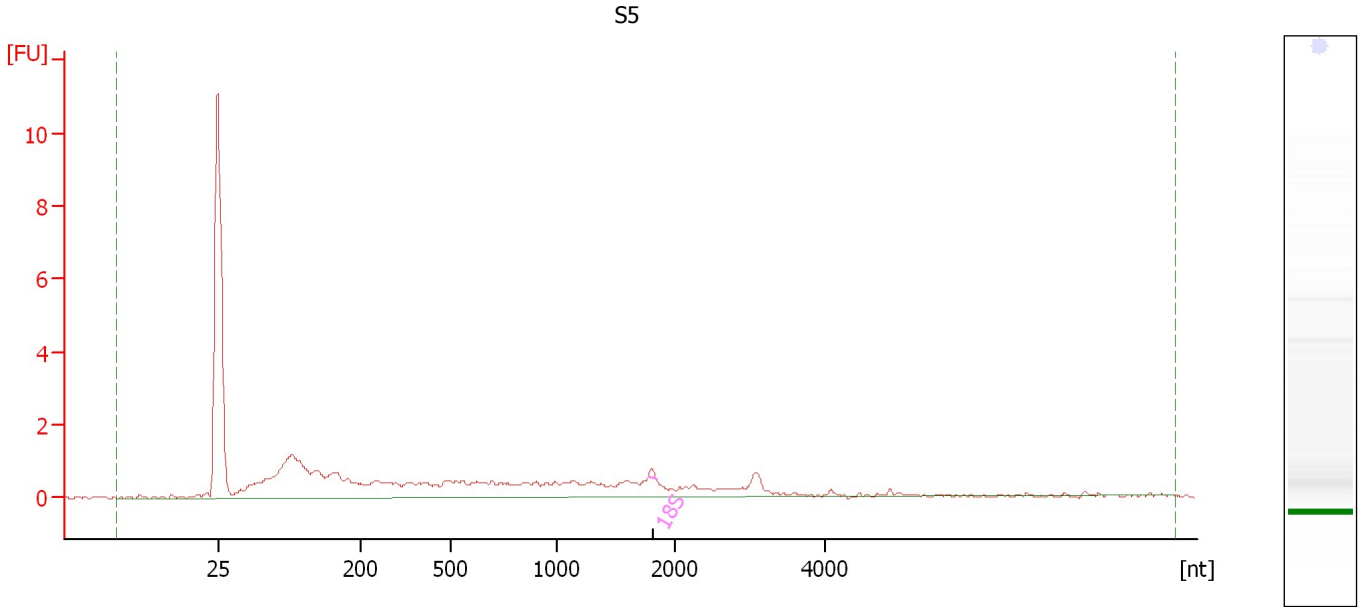
Overall Results for sample 2 : R21

RNA Area:	8.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5 ng/μl	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\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : S5

RNA Area:	31.1	RNA Integrity Number (RIN):	1.9 (B.02.08)
RNA Concentration:	20 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.90

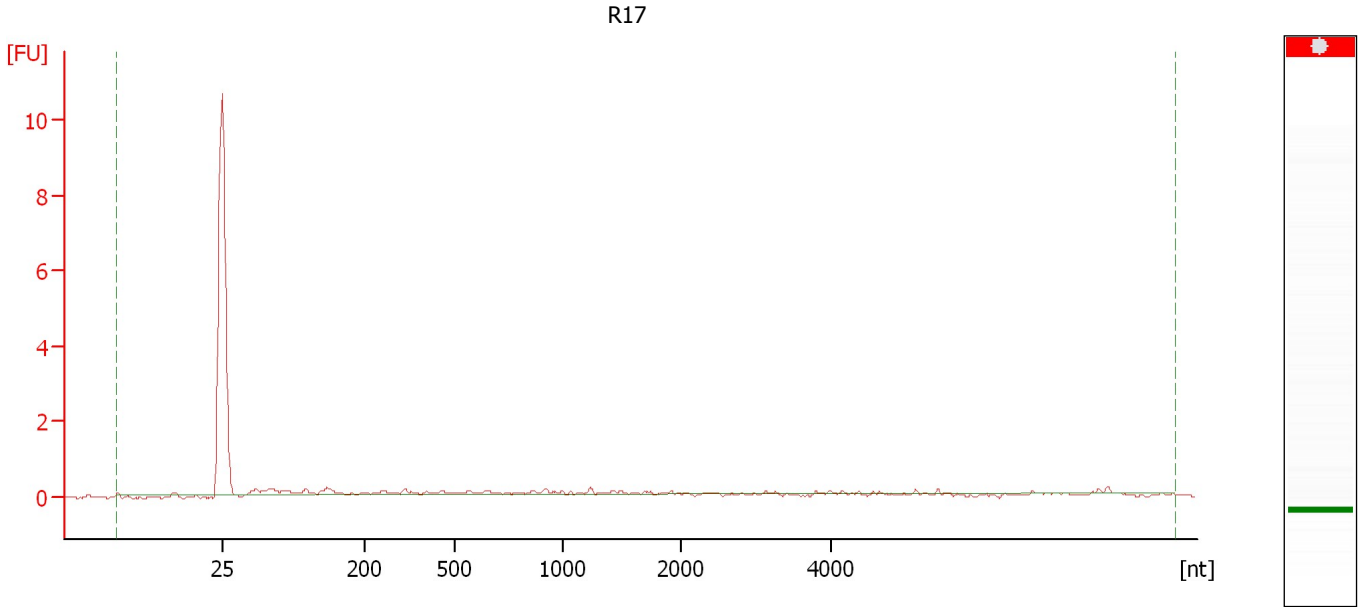
Fragment table for sample 3 : S5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,767	1,839	0.1	0.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : R17

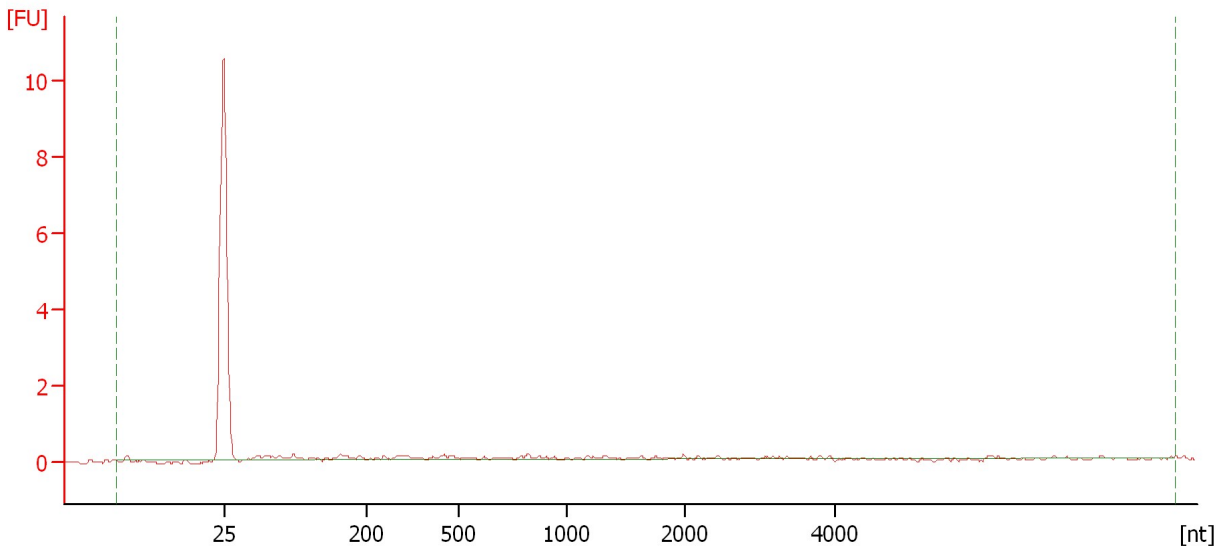
RNA Area:	4.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary Continued ...

R16



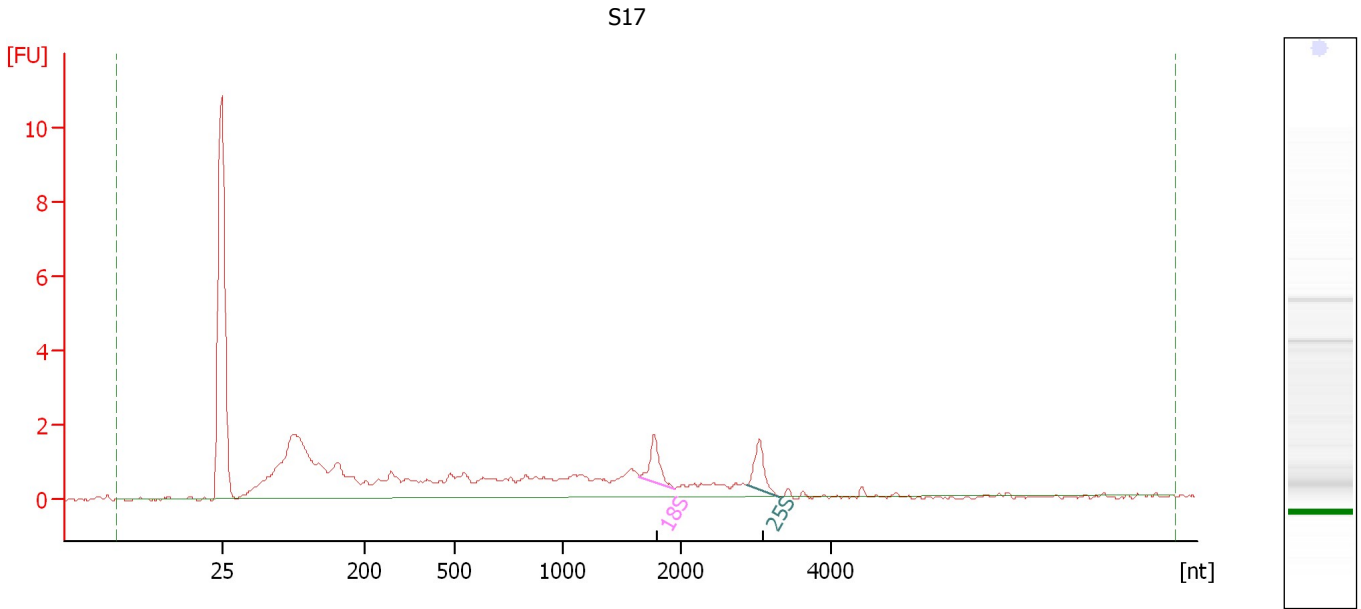
Overall Results for sample 5 : R16

RNA Area:	2.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 ng/μl	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\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
 Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : S17

RNA Area:	42.5	RNA Integrity Number (RIN):	5.7 (B.02.08)
RNA Concentration:	27 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.0	Result Flagging Label:	RIN: 5.70

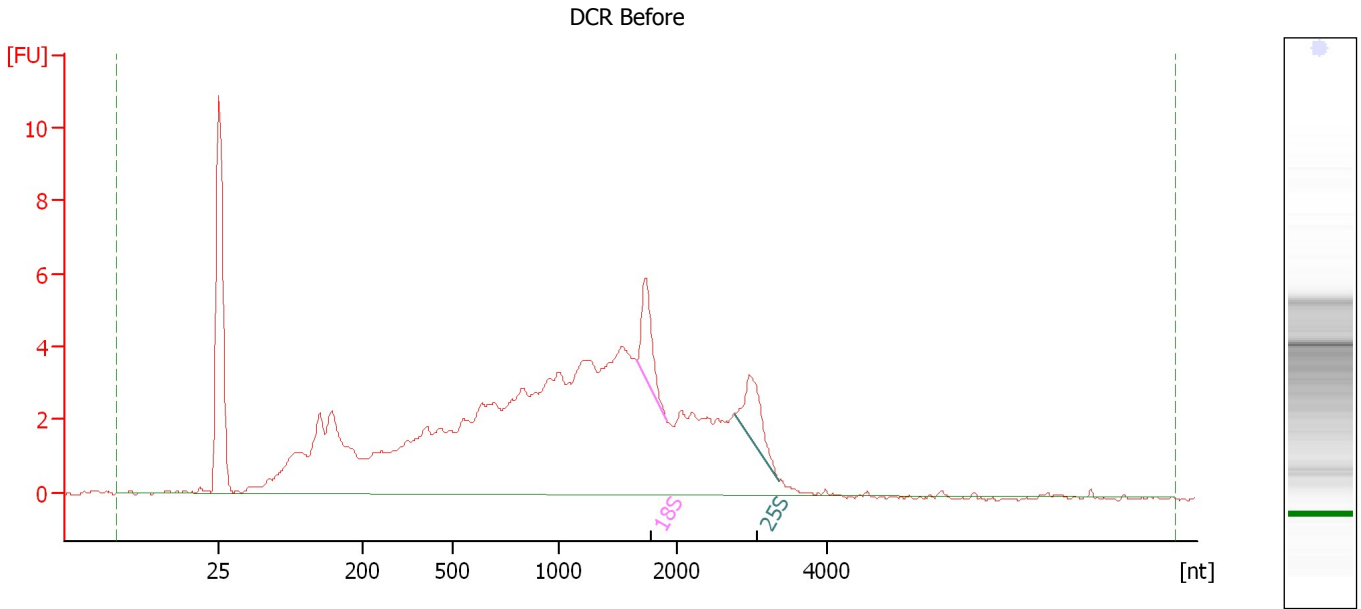
Fragment table for sample 6 : S17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,951	1.4	3.3
25S	2,880	3,309	1.4	3.3

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
 Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : DCR Before

RNA Area:	139.5	RNA Integrity Number (RIN):	3.9 (B.02.08)
RNA Concentration:	89 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.9	Result Flagging Label:	RIN: 3.90

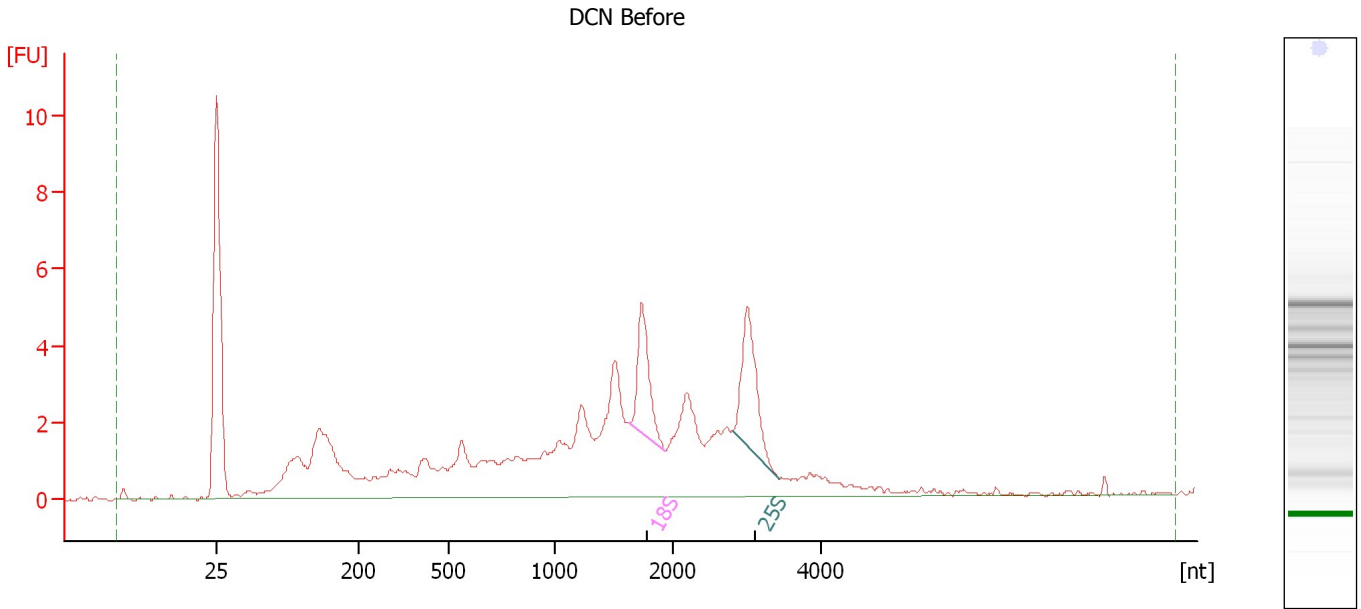
Fragment table for sample 7 : DCR Before

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,660	1,904	3.3	2.4
25S	2,780	3,368	3.1	2.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : DCN Before

RNA Area: 87.8 RNA Integrity Number (RIN): 6 (B.02.08)
RNA Concentration: 56 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN:6

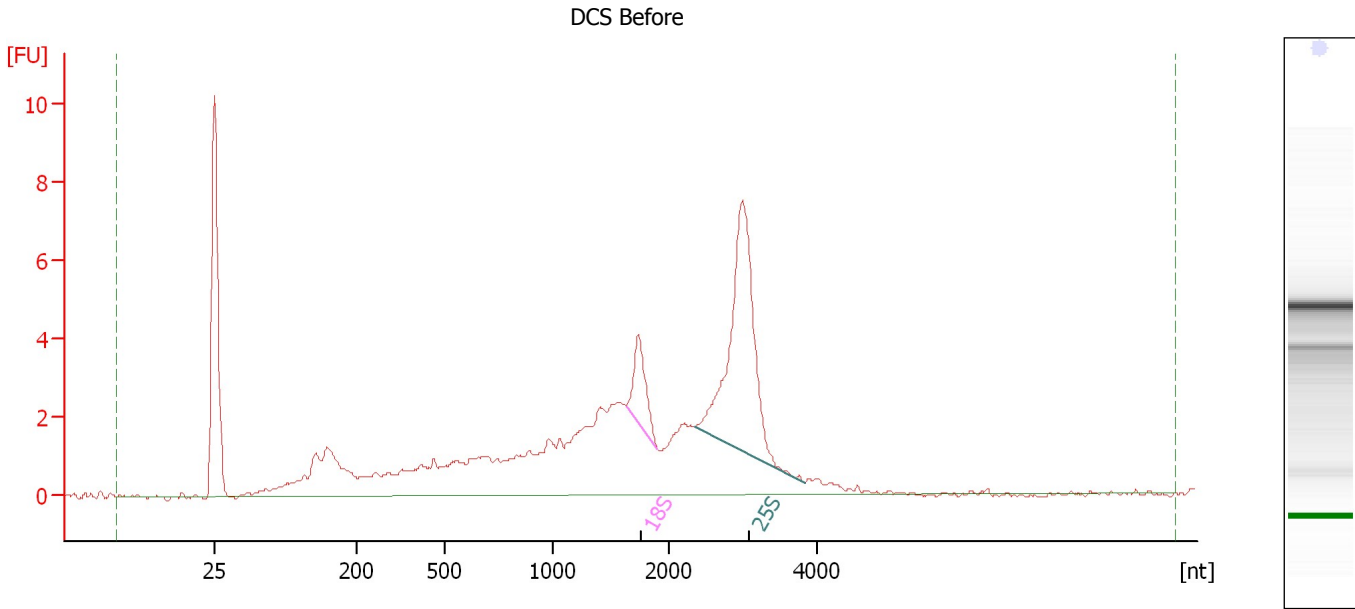
Fragment table for sample 8 : DCN Before

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,929	4.6	5.3
25S	2,809	3,414	5.6	6.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : DCS Before

RNA Area:	91.0	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	58 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	5.1	Result Flagging Label:	RIN: 7.10

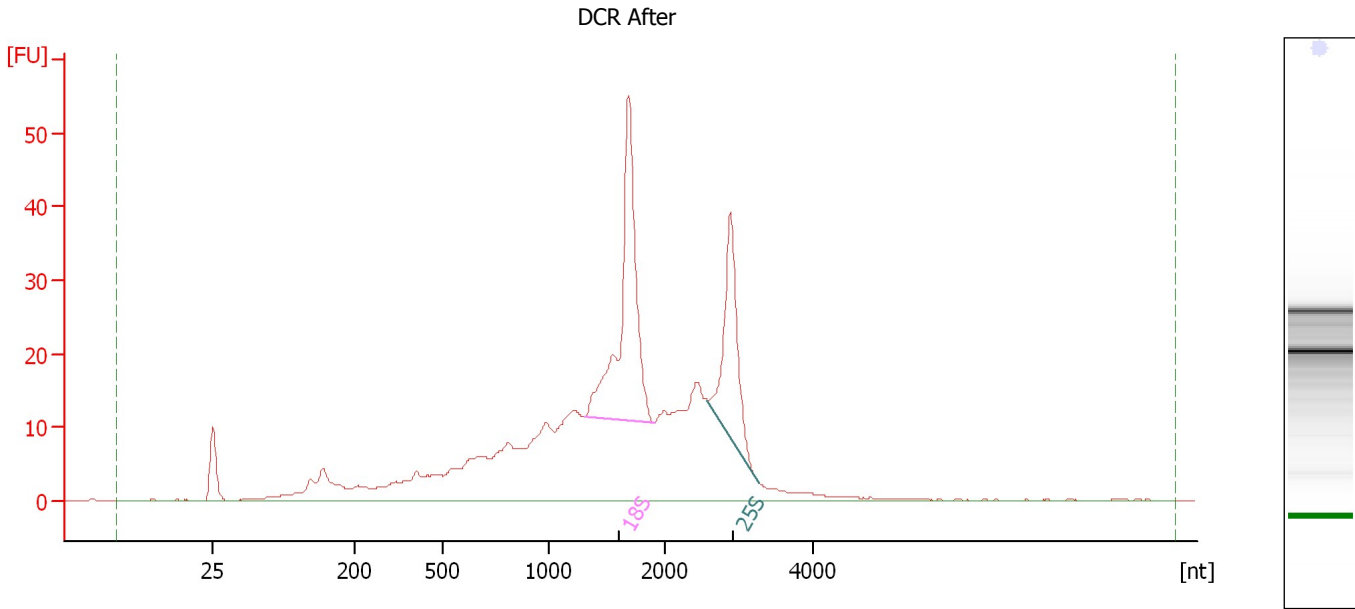
Fragment table for sample 9 : DCS Before

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,899	3.3	3.6
25S	2,331	3,821	16.8	18.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : DCR After

RNA Area: 522.1 RNA Integrity Number (RIN): 6.8 (B.02.08)
RNA Concentration: 332 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.5 Result Flagging Label: RIN: 6.80

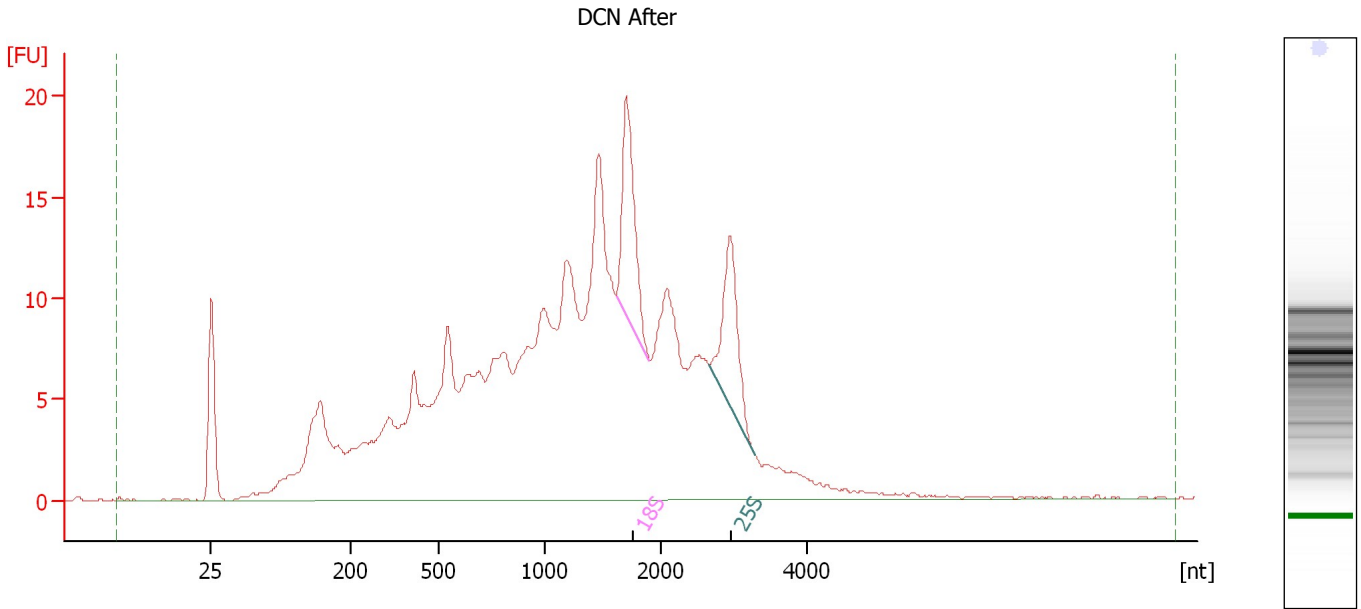
Fragment table for sample 10 : DCR After

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,302	1,905	81.9	15.7
25S	2,576	3,259	44.3	8.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : DCN After

RNA Area:	398.1	RNA Integrity Number (RIN):	4.4 (B.02.08)
RNA Concentration:	253 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.9	Result Flagging Label:	RIN: 4.40

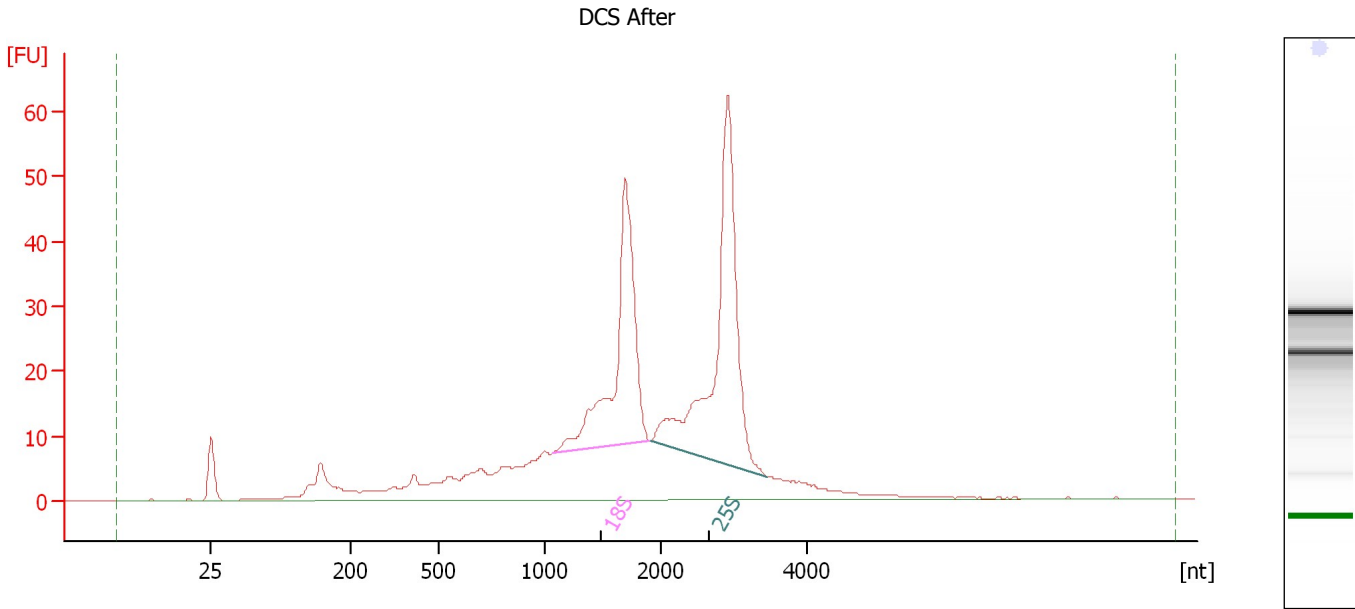
Fragment table for sample 11 : DCN After

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	1,894	16.2	4.1
25S	2,648	3,275	13.9	3.5

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : DCS After

RNA Area: 531.2 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 337 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 8.70

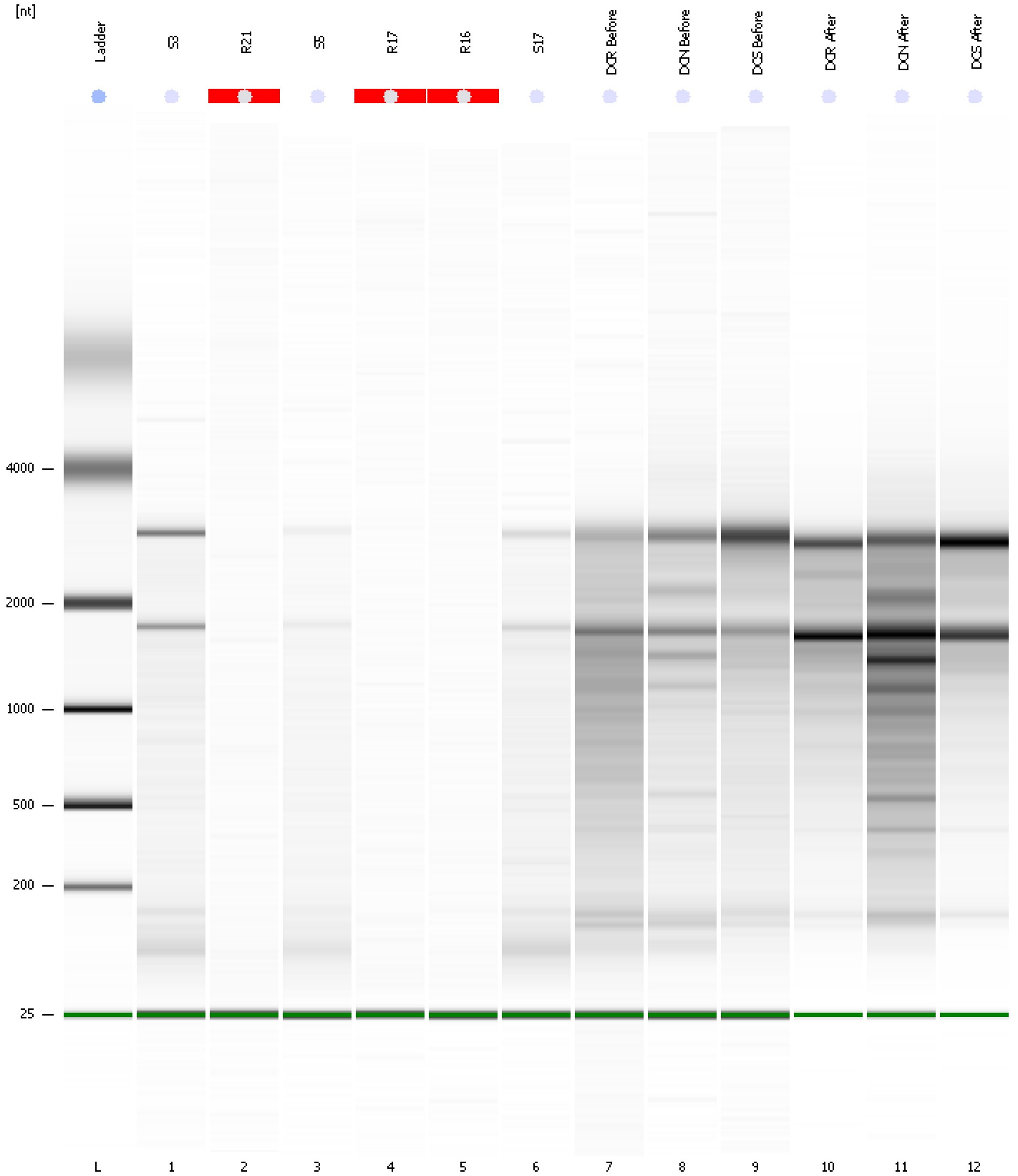
Fragment table for sample 12 : DCS After

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,058	1,884	97.8	18.4
25S	1,903	3,450	133.1	25.1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
Modified: 4/15/2014 11:05:18 AM

Gel Image



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad

Created: 4/15/2014 10:41:28 AM
 Modified: 4/15/2014 11:05:18 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		4/15/2014 11:05:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-15\2014-04-15_001.xad)		Instrument	Run		4/15/2014 10:41:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/15/2014 10:41:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/15/2014 10:41:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/15/2014 10:41:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/15/2014 10:41:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/15/2014 10:41:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/15/2014 10:41:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1