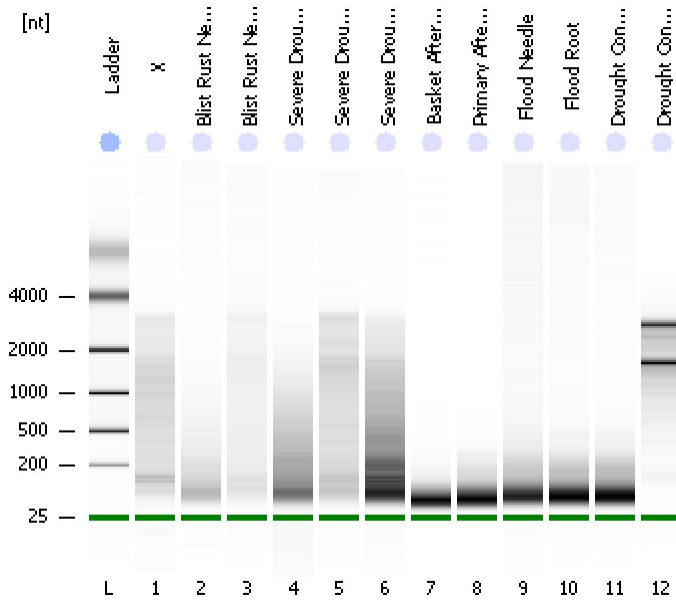


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

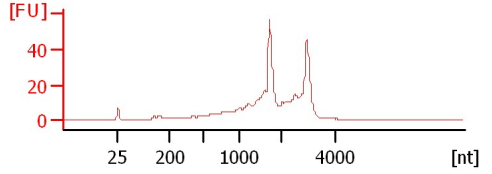
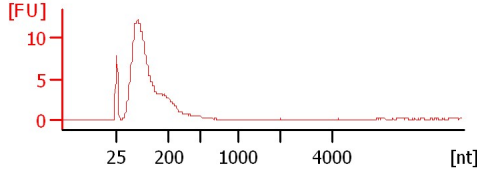
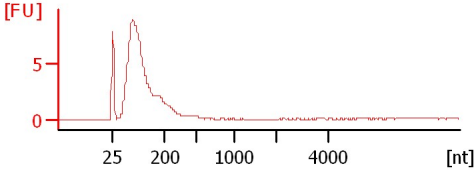
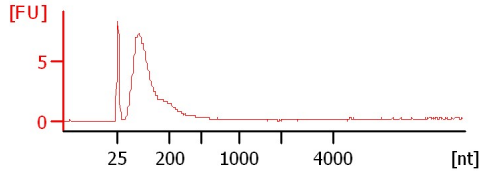
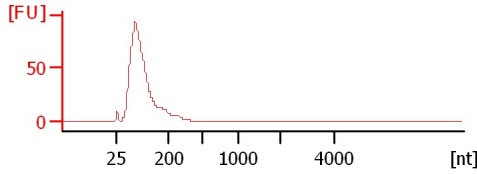
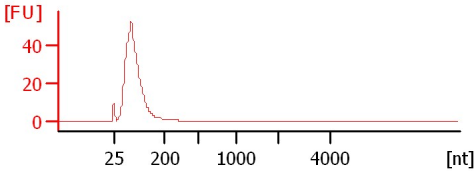
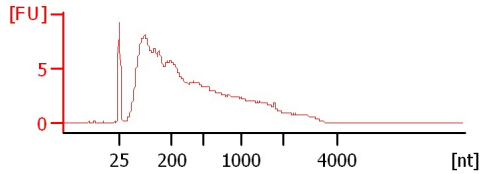
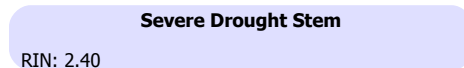
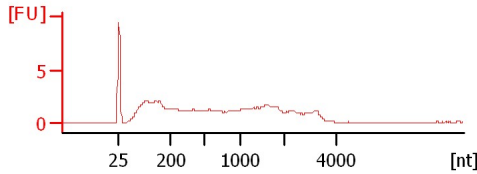
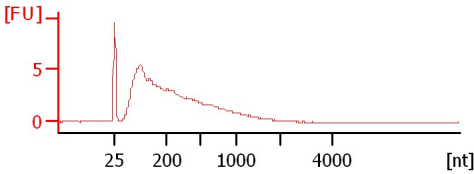
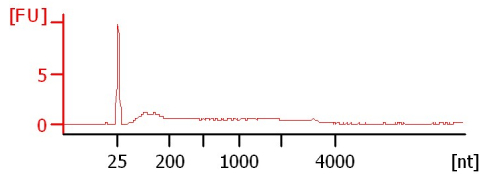
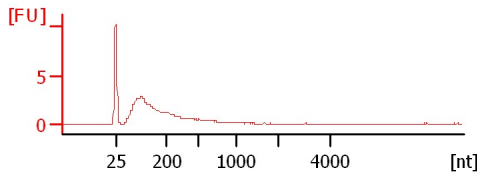
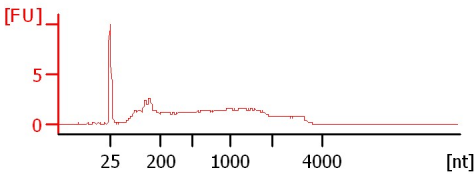
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
X		✓	RIN: 2.20	
Blist Rust Need Susc		✓	RIN: 2.30	
Blist Rust Need Res		✓	RIN: 1.20	
Severe Drought Root		✓	RIN: 2.40	
Severe Drought Need		✓	RIN: 2.10	
Severe Drought Stem		✓	RIN: 2.40	
Basket After DNase		✓	RIN: 2.60	
Primary After DNase		✓	RIN: 2.50	
Flood Needle		✓	RIN: 2.60	
Flood Root		✓	RIN: 2.60	
Drought Cont Root Bef		✓	RIN: 2.50	
Drought Cont Root Aft		✓	RIN: 7.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 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/ 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

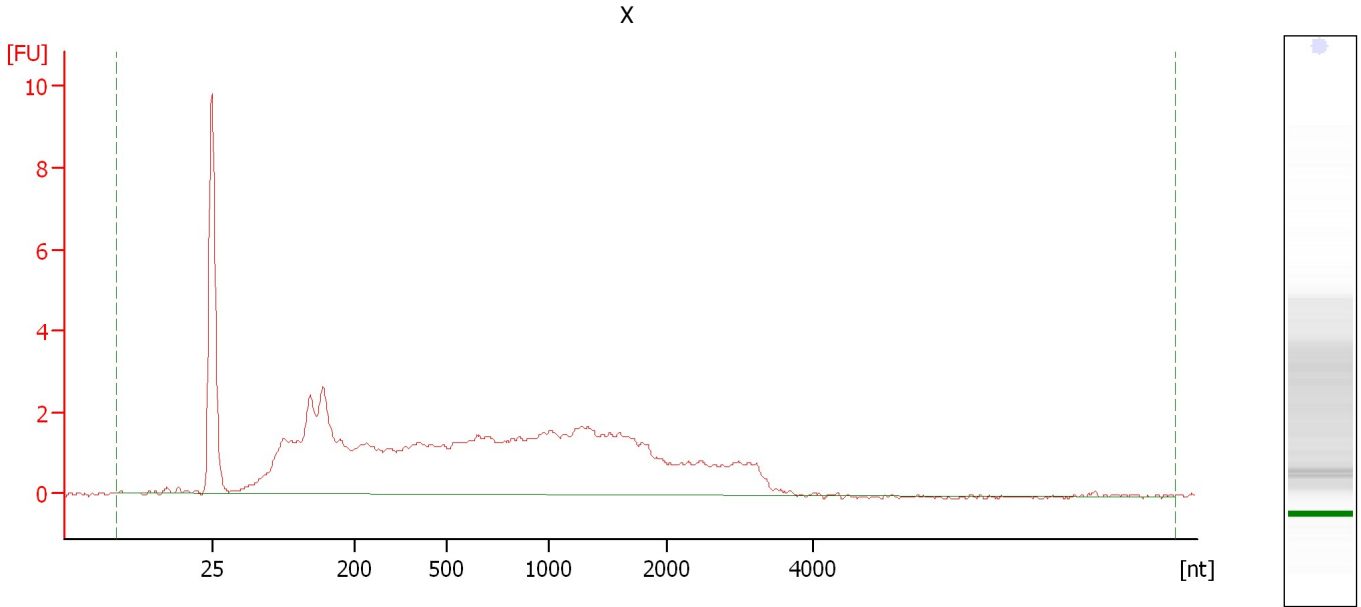
Ladder

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electropherogram Summary



Overall Results for sample 1 : X

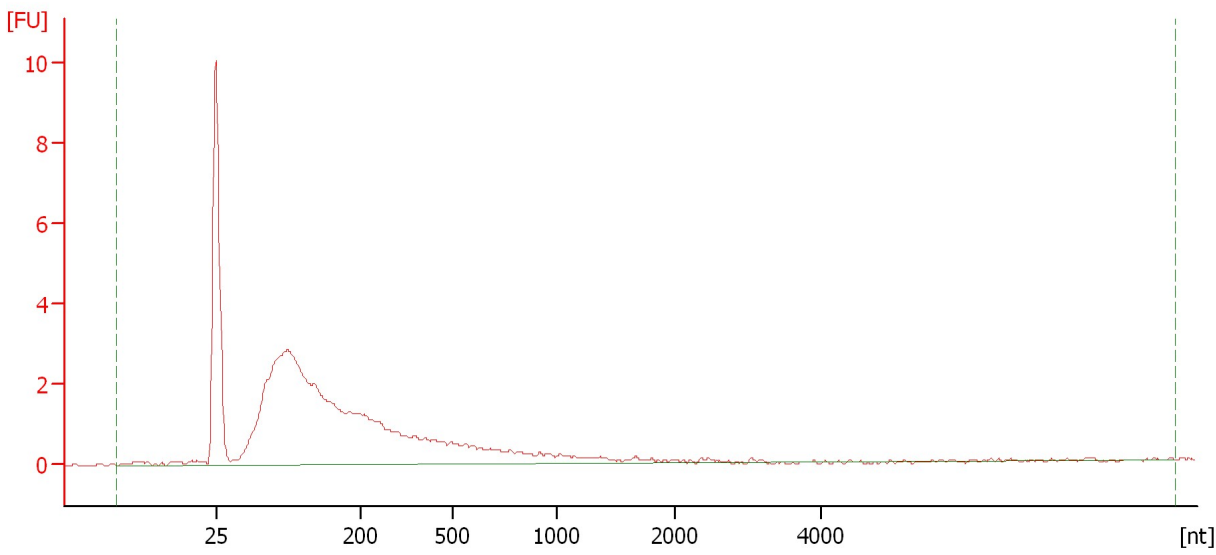
RNA Area:	81.8	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	75 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electropherogram Summary Continued ...

Blist Rust Need Susc



Overall Results for sample 2 : Blist Rust Need Susc

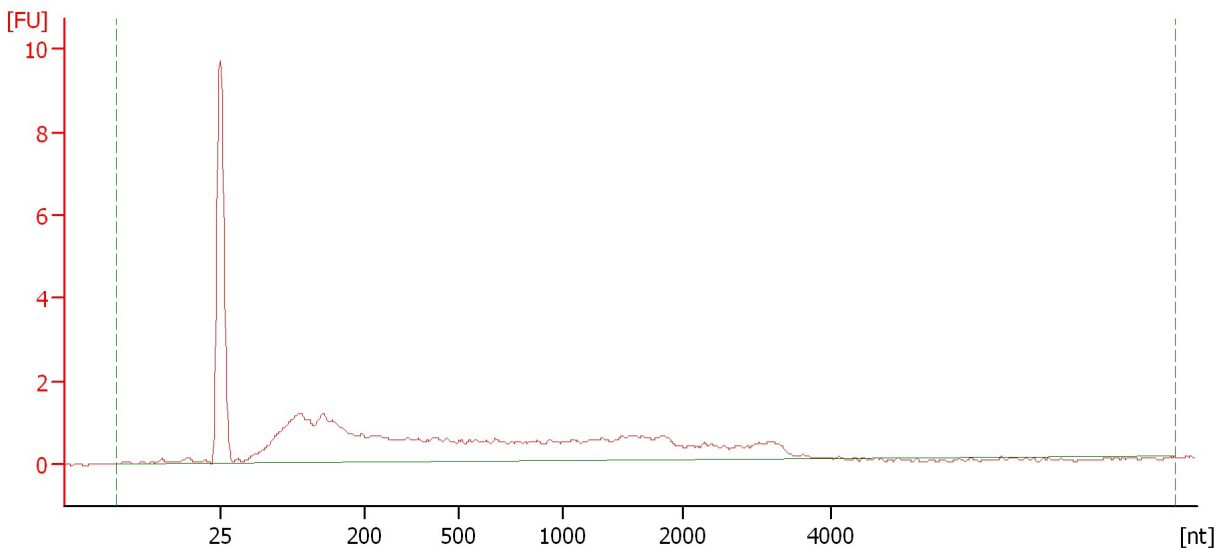
RNA Area:	52.4	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	48 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electropherogram Summary Continued ...

Blist Rust Need Res



Overall Results for sample 3 : Blist Rust Need Res

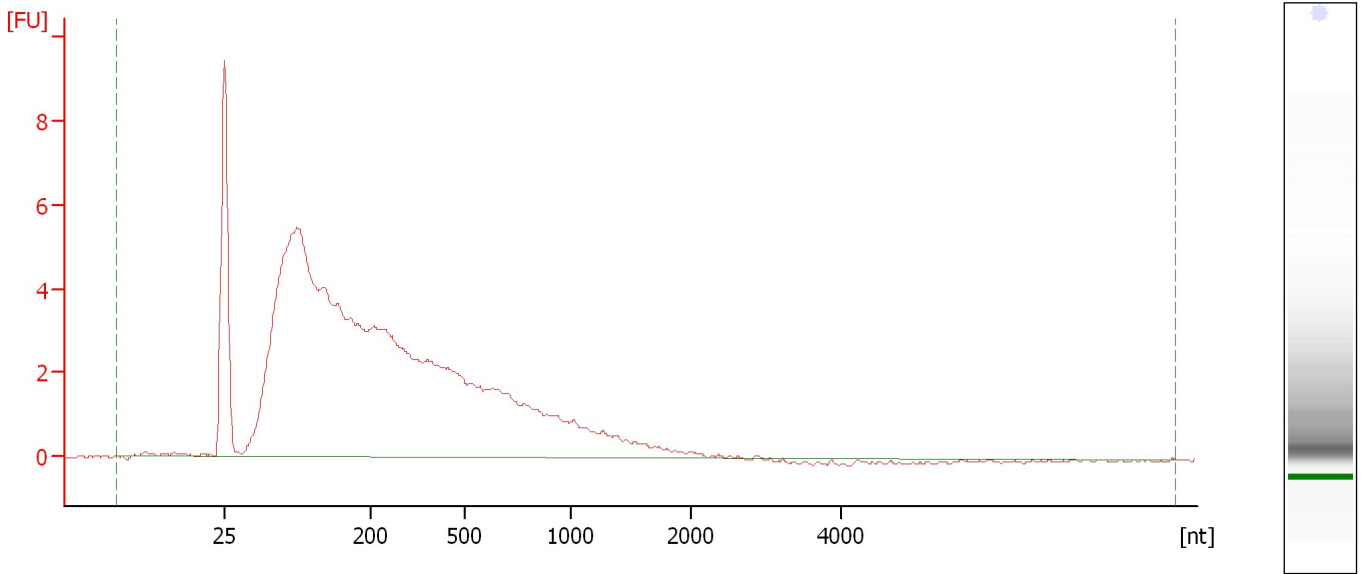
RNA Area:	39.0	RNA Integrity Number (RIN):	1.2 (B.02.08)
RNA Concentration:	36 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.20

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electropherogram Summary Continued ...

Severe Drought Root



Overall Results for sample 4 : Severe Drought Root

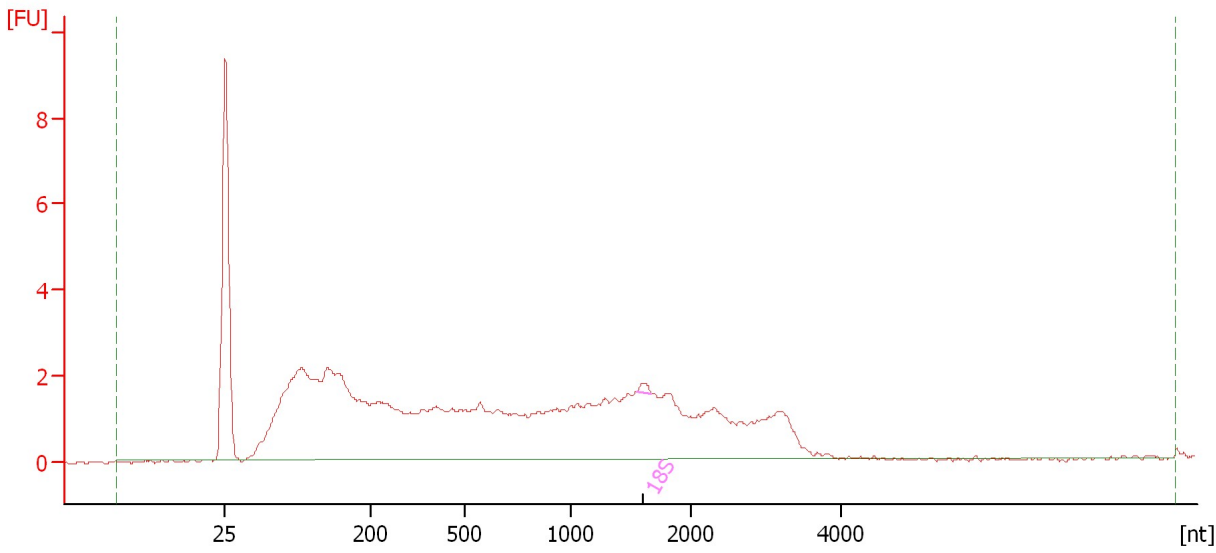
RNA Area:	125.1	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	115 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electropherogram Summary Continued ...

Severe Drought Need



Overall Results for sample 5 : Severe Drought Need

RNA Area:	87.1	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	80 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Fragment table for sample 5 : Severe Drought Need

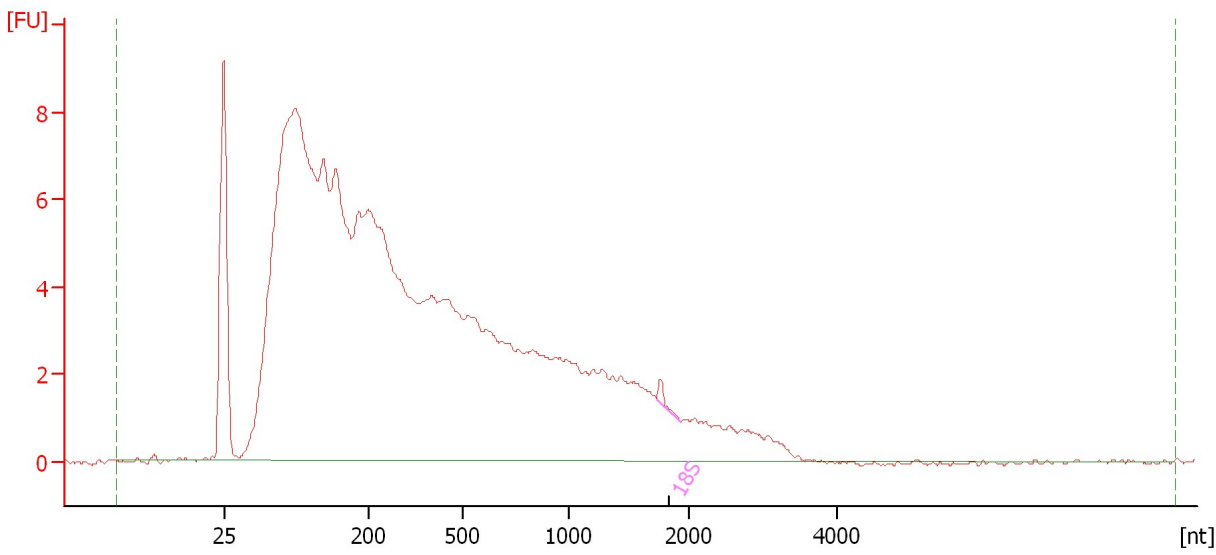
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,545	1,669	0.2	0.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electropherogram Summary Continued ...

Severe Drought Stem



Overall Results for sample 6 : Severe Drought Stem

RNA Area:	230.7	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	211 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

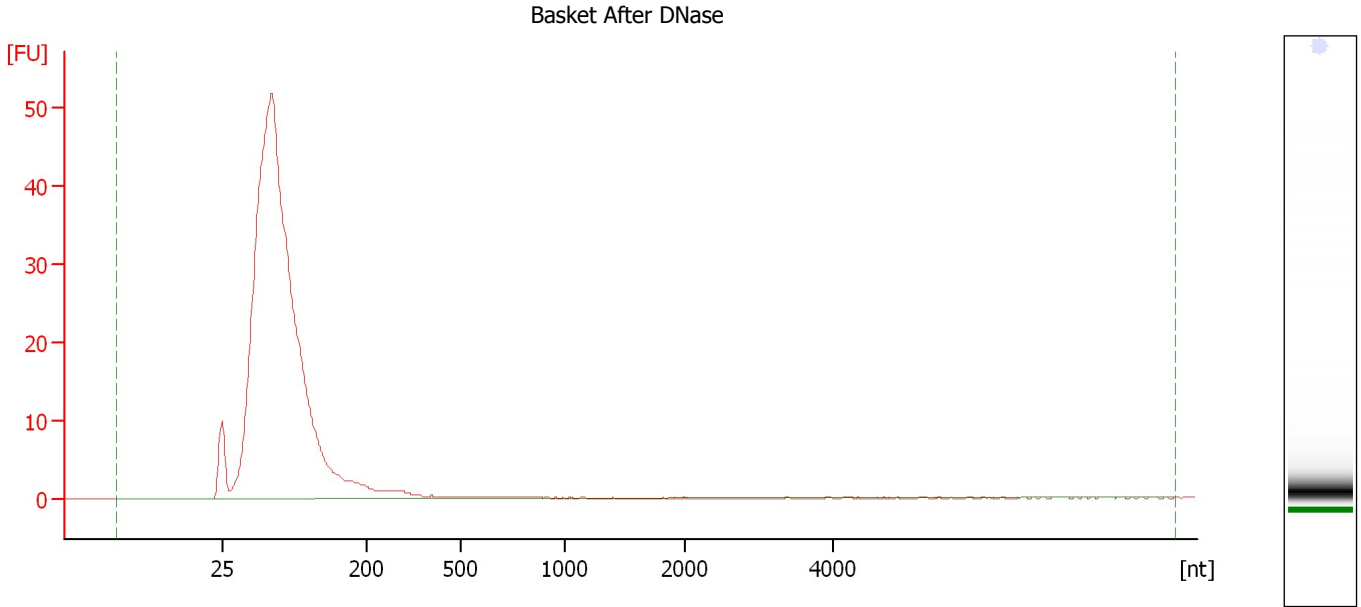
Fragment table for sample 6 : Severe Drought Stem

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,730	1,925	0.4	0.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Basket After DNase

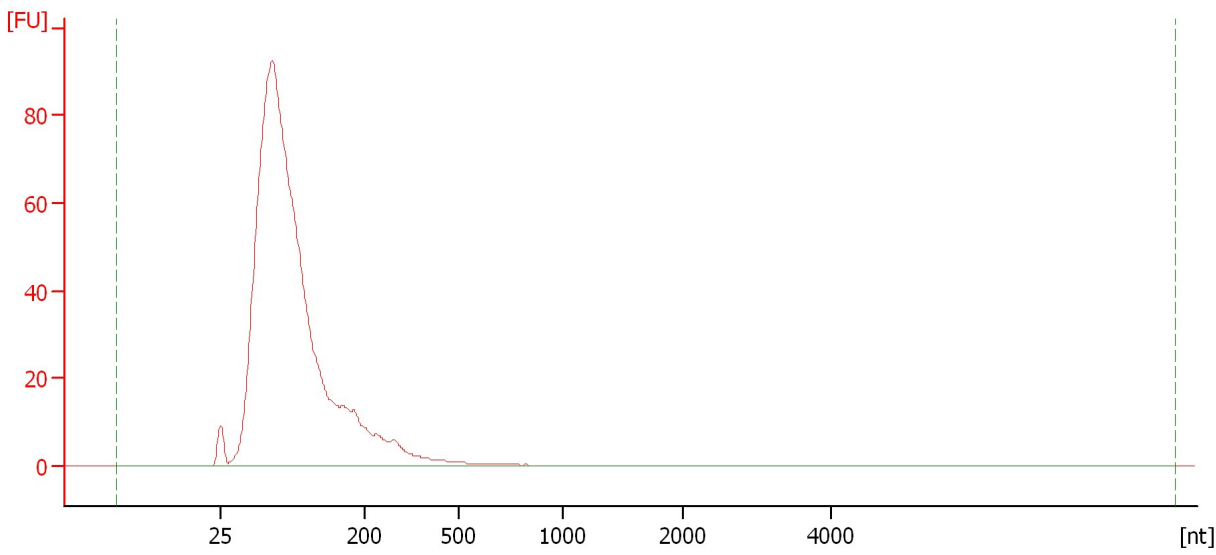
RNA Area:	414.2	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	379 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electropherogram Summary Continued ...

Primary After DNase



Overall Results for sample 8 : Primary After DNase

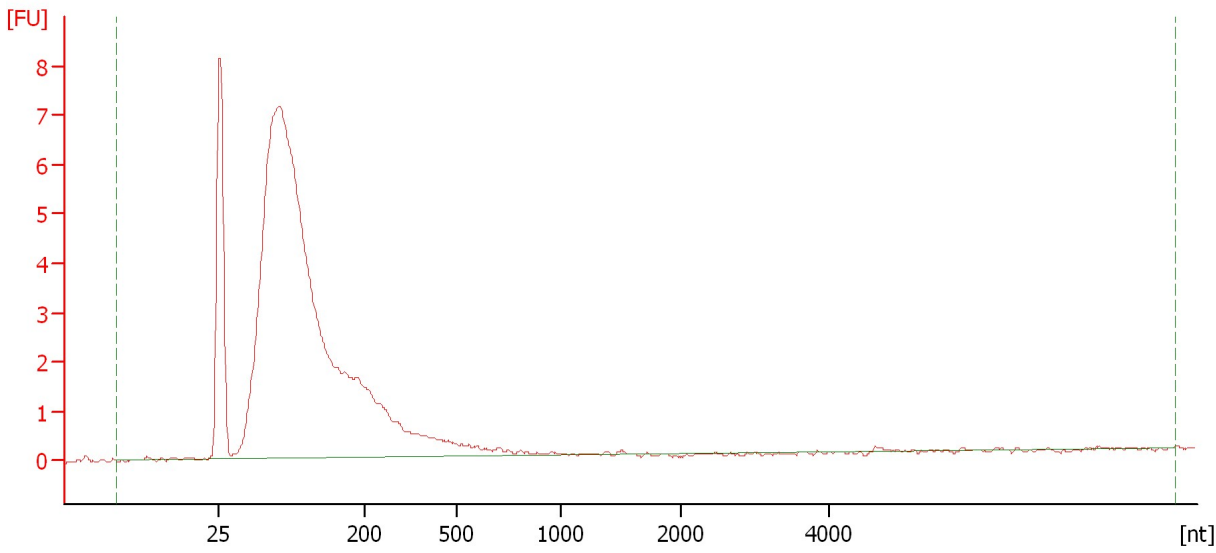
RNA Area:	892.1	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	817 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electropherogram Summary Continued ...

Flood Needle



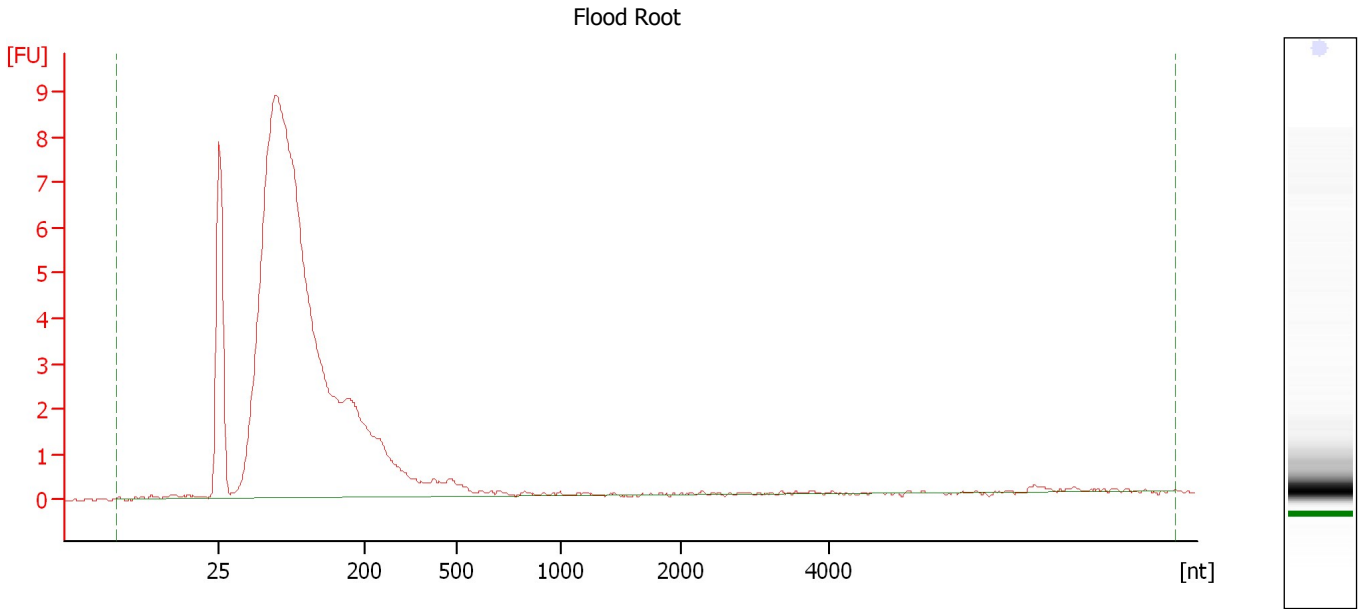
Overall Results for sample 9 : Flood Needle

RNA Area:	82.1	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	75 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electropherogram Summary Continued ...



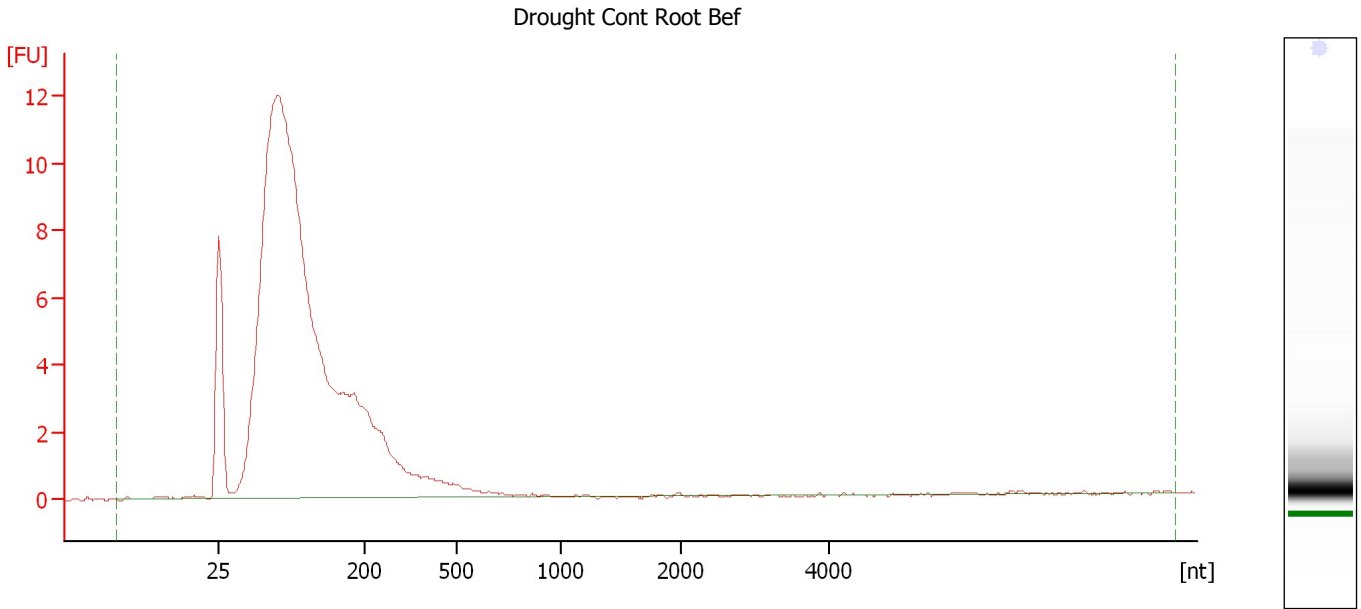
Overall Results for sample 10 : Flood Root

RNA Area:	100.9	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	92 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electropherogram Summary Continued ...



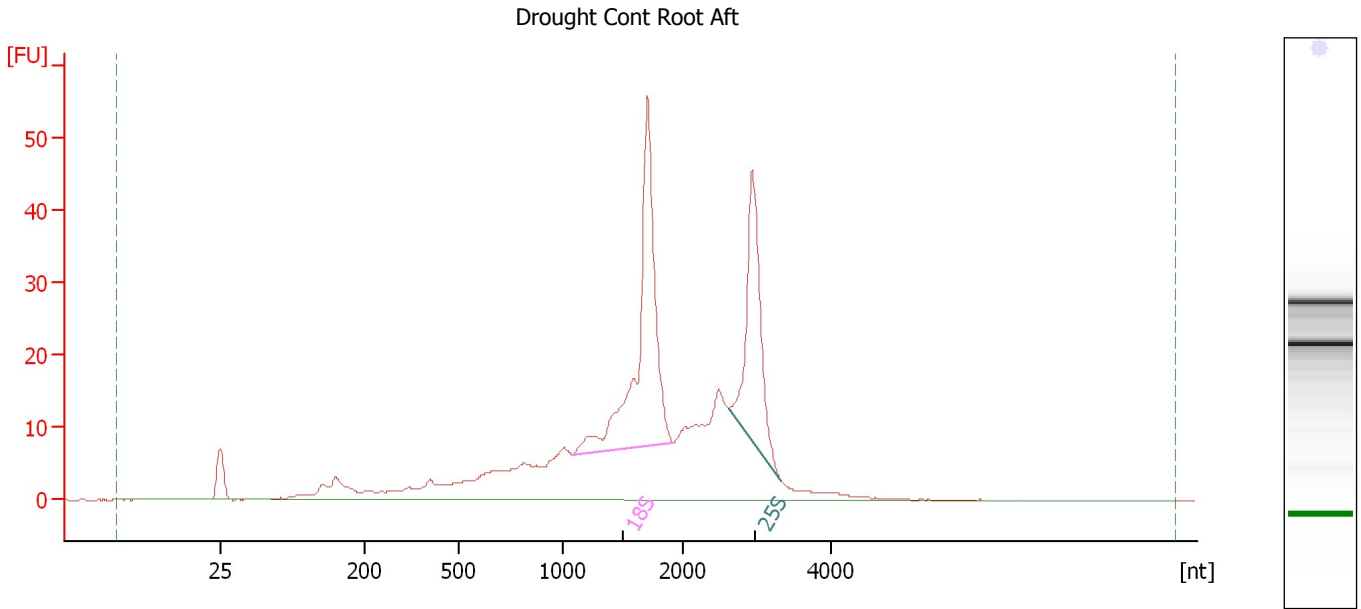
Overall Results for sample 11 : Drought Cont Root Bef

RNA Area:	138.8	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	127 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Drought Cont Root Aft

RNA Area: 441.6 RNA Integrity Number (RIN): 7.9 (B.02.08)
RNA Concentration: 405 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 7.90

Fragment table for sample 12 : Drought Cont Root Aft

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,072	1,922	95.9	21.7
25S	2,626	3,319	55.7	12.6

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-12\2014-05-12_002.xad

Created: 5/12/2014 10:38:52 AM
Modified: 5/12/2014 11:02:42 AM

Gel Image

