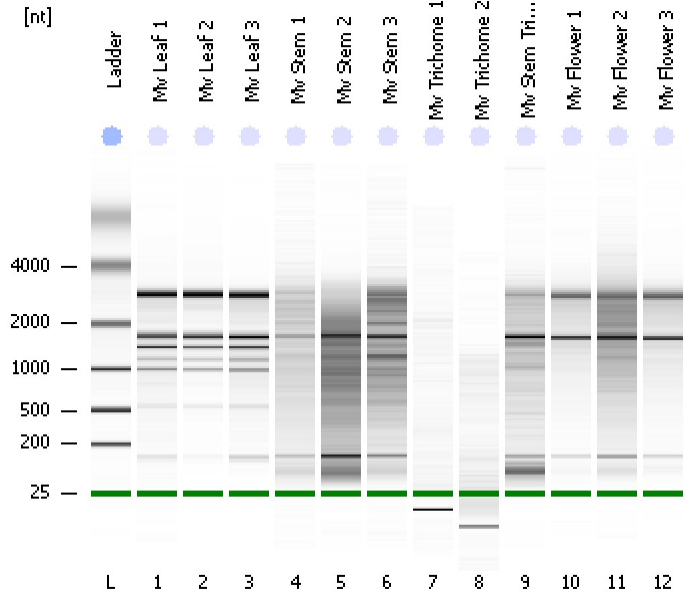


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 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:



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
 Modified: 10/1/2015 3:13:31 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Mv Leaf 1		✓	RIN: 7.30	
Mv Leaf 2		✓	RIN: 7.40	
Mv Leaf 3		✓	RIN: 6.40	
Mv Stem 1		✓	RIN: 4.20	
Mv Stem 2		✓	RIN: 2.50	
Mv Stem 3		✓	RIN: 4.20	
Mv Trichome 1		✓	RIN: 2.40	
Mv Trichome 2		✓	RIN: 2.50	
Mv Stem Trichomes		✓	RIN: 4.50	
Mv Flower 1		✓	RIN:8	
Mv Flower 2		✓	RIN: 4.70	
Mv Flower 3		✓	RIN: 7.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 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

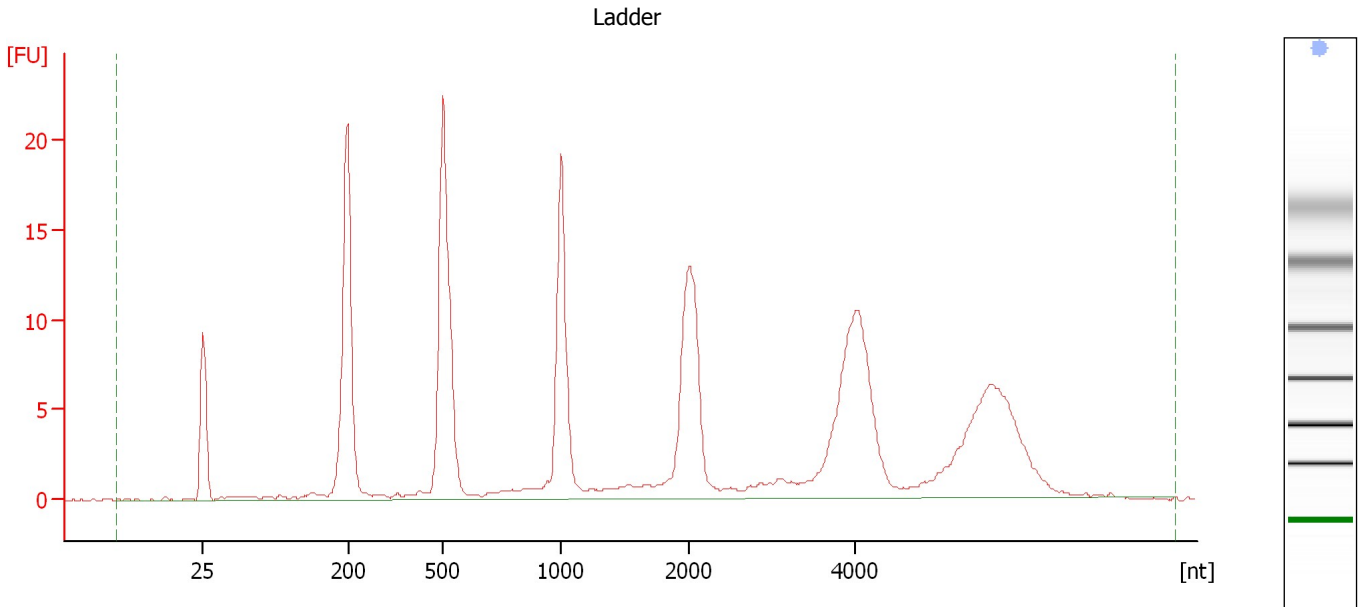
Ladder

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\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary



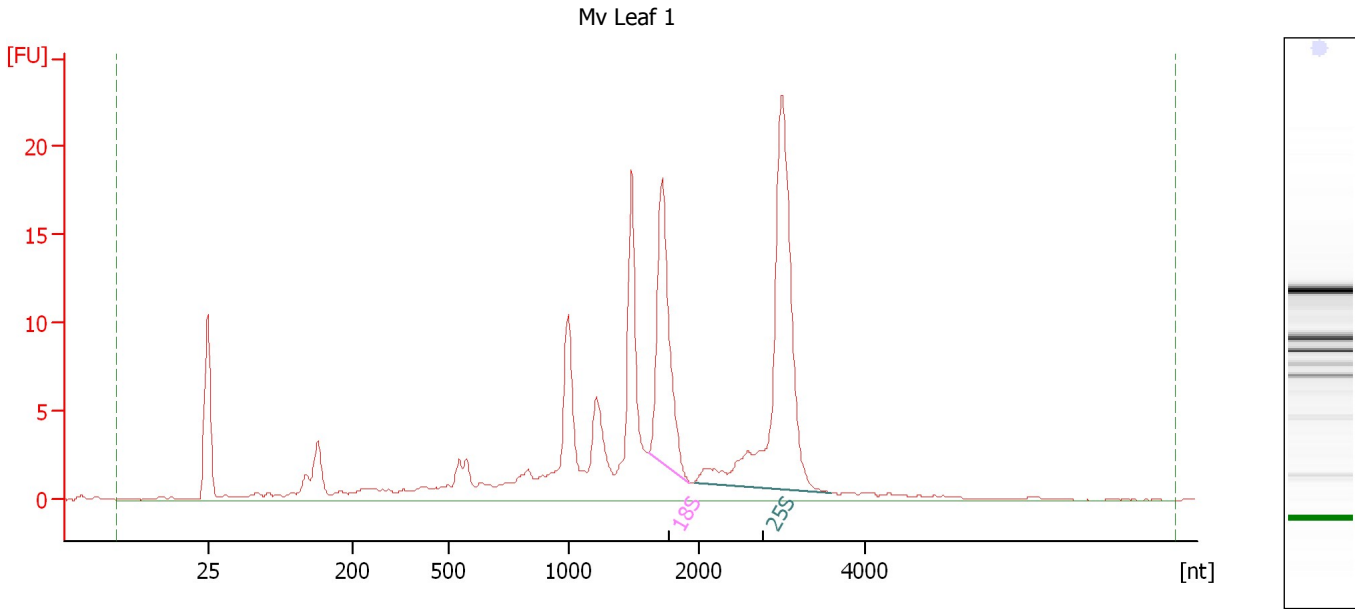
Overall Results for Ladder

RNA Area:	210.5	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\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Mv Leaf 1

RNA Area: 175.0 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 125 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 2.0 Result Flagging Label: RIN: 7.30

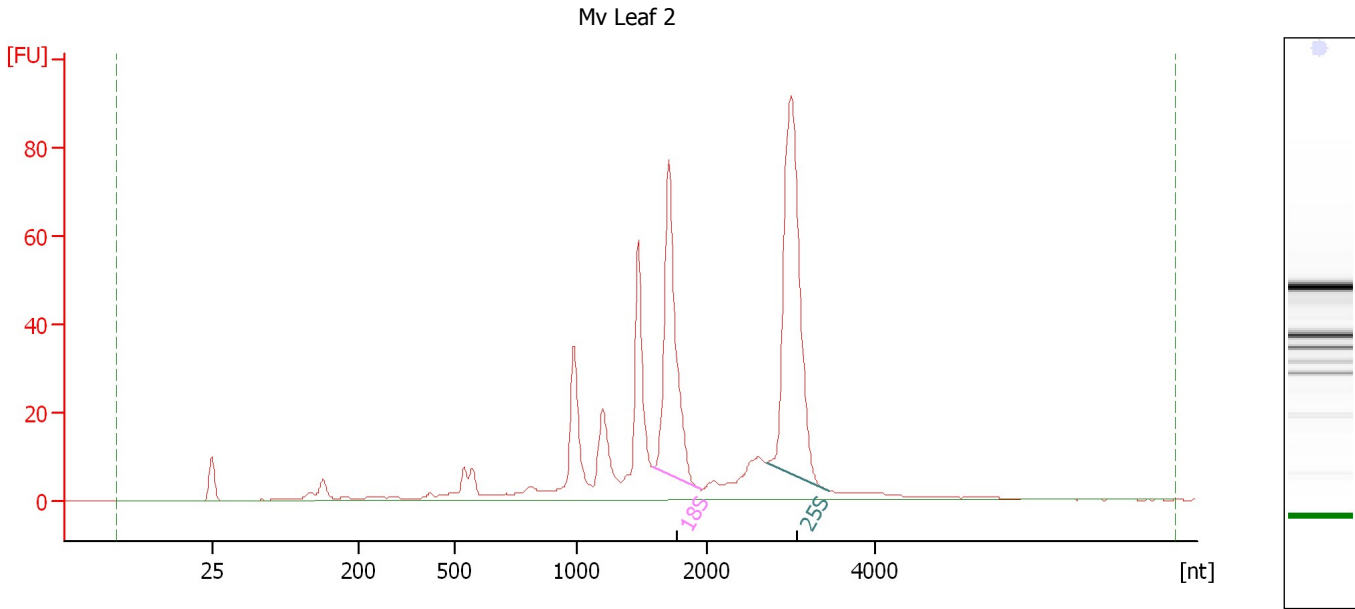
Fragment table for sample 1 : Mv Leaf 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,612	1,935	22.8	13.0
25S	1,968	3,588	45.4	25.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Mv Leaf 2

RNA Area: 547.8 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 390 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.5 Result Flagging Label: RIN: 7.40

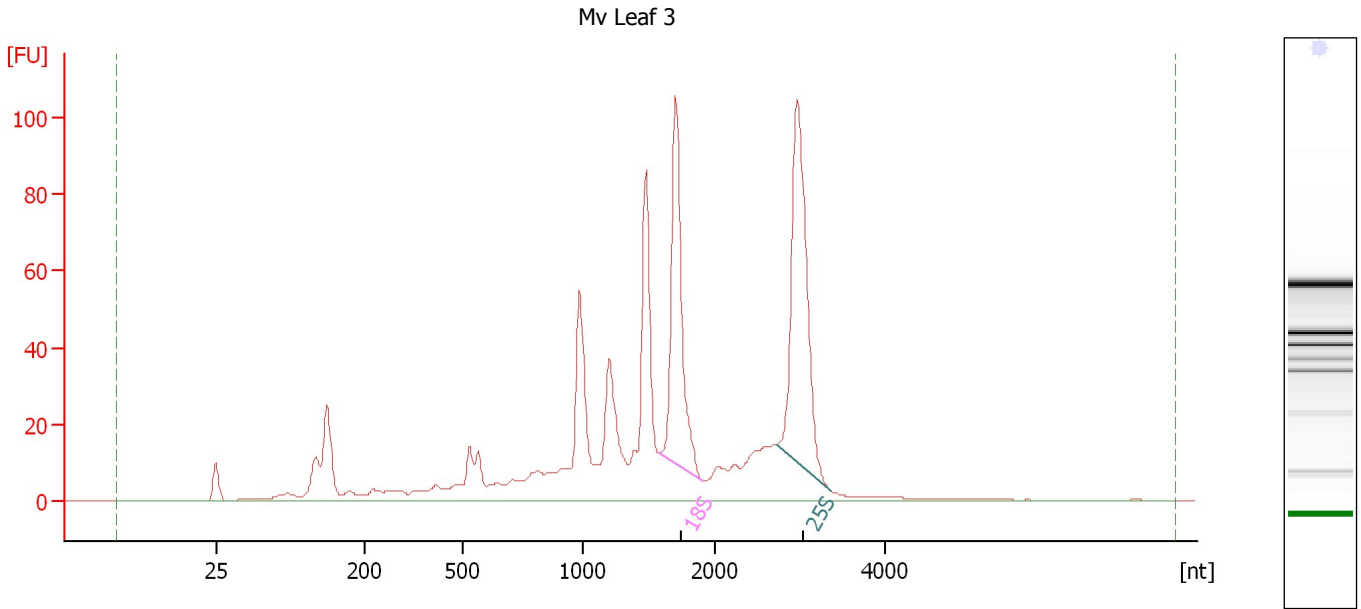
Fragment table for sample 2 : Mv Leaf 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,592	1,953	96.9	17.7
25S	2,713	3,449	143.6	26.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Mv Leaf 3

RNA Area: 862.0 RNA Integrity Number (RIN): 6.4 (B.02.08)
RNA Concentration: 614 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.3 Result Flagging Label: RIN: 6.40

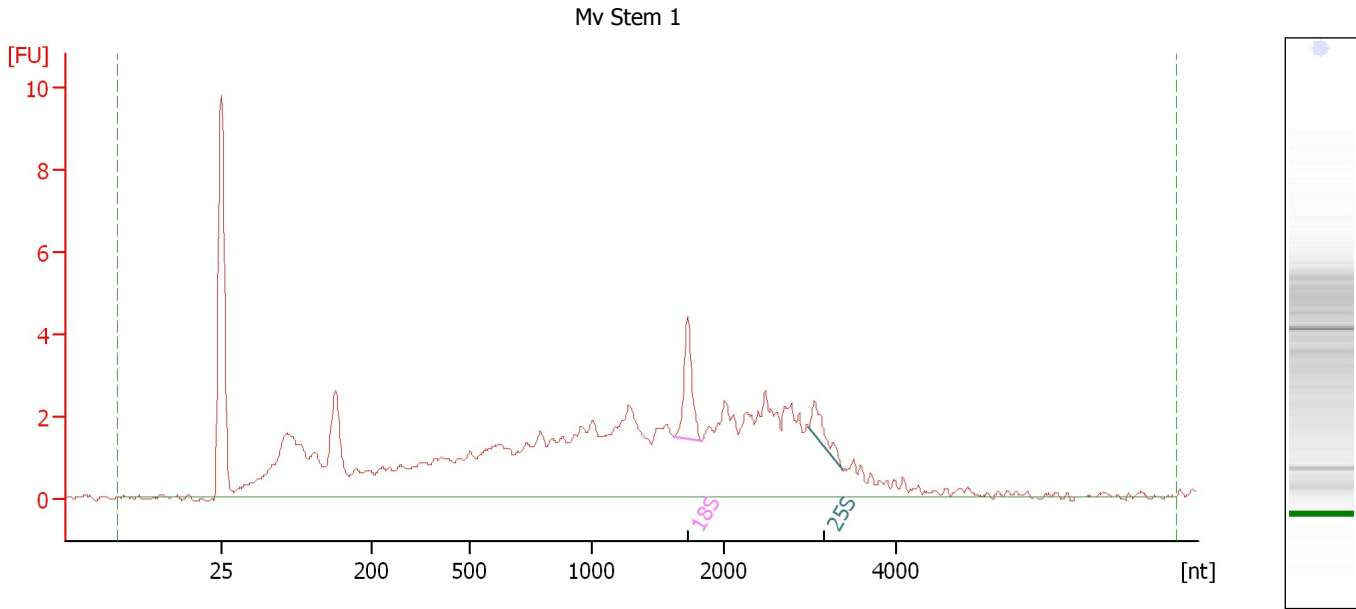
Fragment table for sample 3 : Mv Leaf 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,572	1,905	112.2	13.0
25S	2,734	3,364	150.0	17.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Mv Stem 1

RNA Area: 99.7 RNA Integrity Number (RIN): 4.2 (B.02.08)
RNA Concentration: 71 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.4 Result Flagging Label: RIN: 4.20

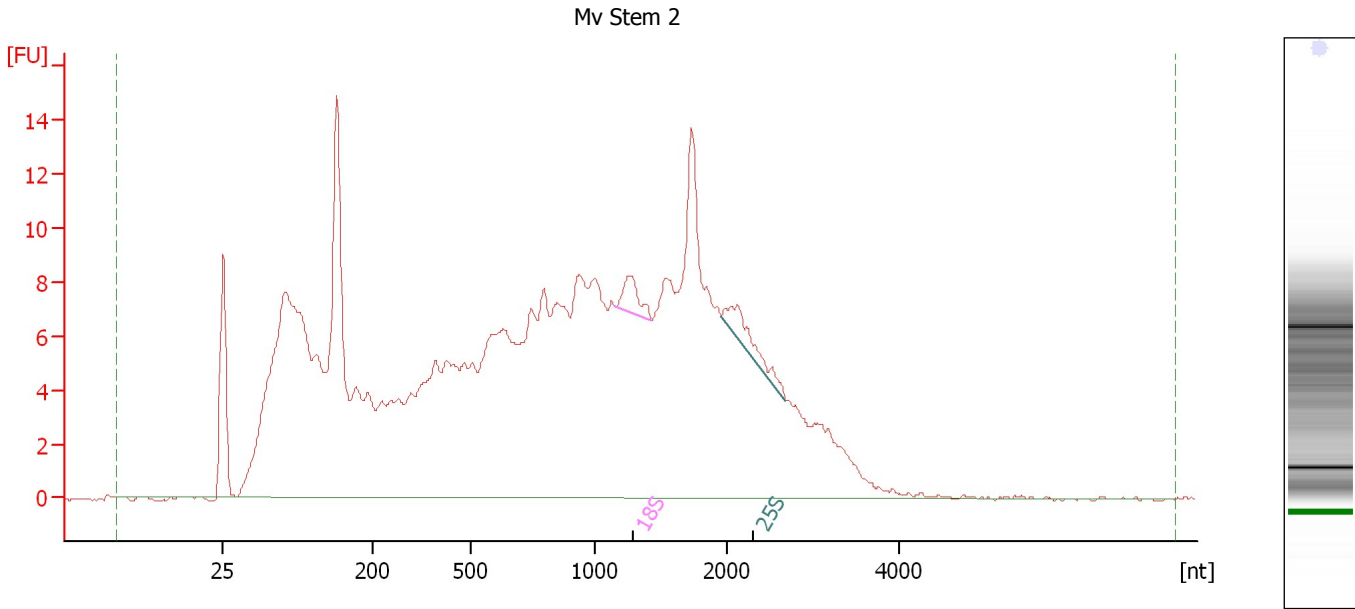
Fragment table for sample 4 : Mv Stem 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,827	2.8	2.8
25S	2,980	3,367	1.1	1.1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Mv Stem 2

RNA Area: 424.0 RNA Integrity Number (RIN): 2.5 (B.02.08)
RNA Concentration: 302 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.3 Result Flagging Label: RIN: 2.50

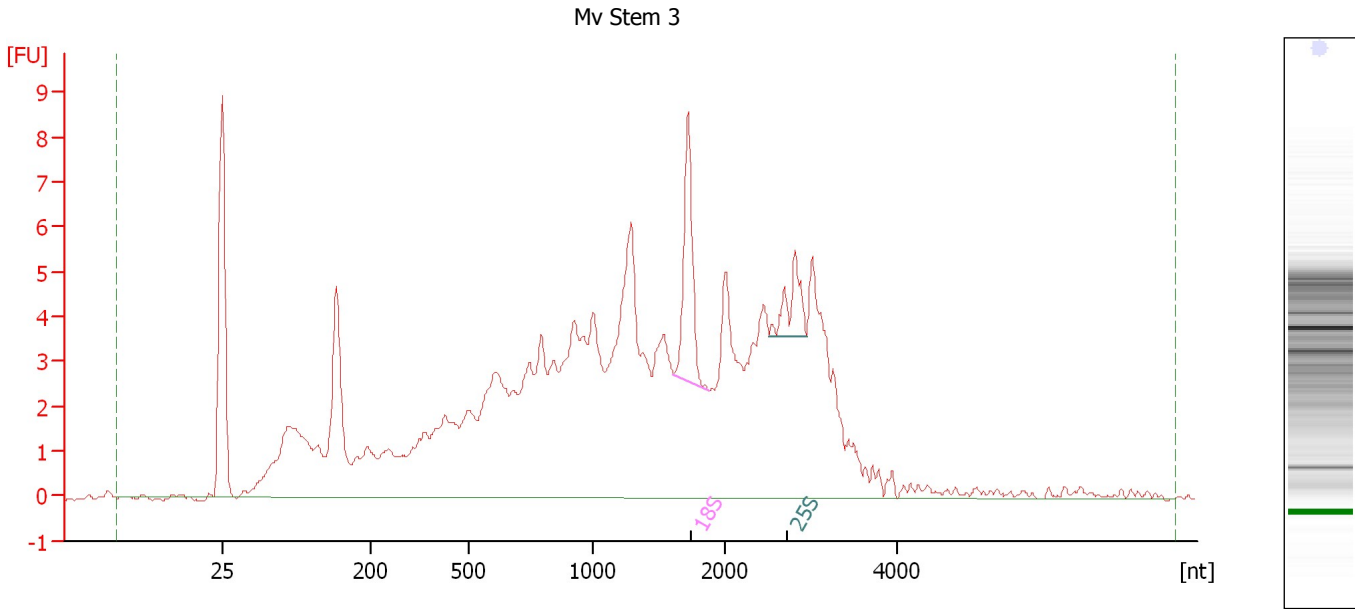
Fragment table for sample 5 : Mv Stem 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,154	1,426	2.6	0.6
25S	1,956	2,678	3.2	0.8

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Mv Stem 3

RNA Area:	182.7	RNA Integrity Number (RIN):	4.2 (B.02.08)
RNA Concentration:	130 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.4	Result Flagging Label:	RIN: 4.20

Fragment table for sample 6 : Mv Stem 3

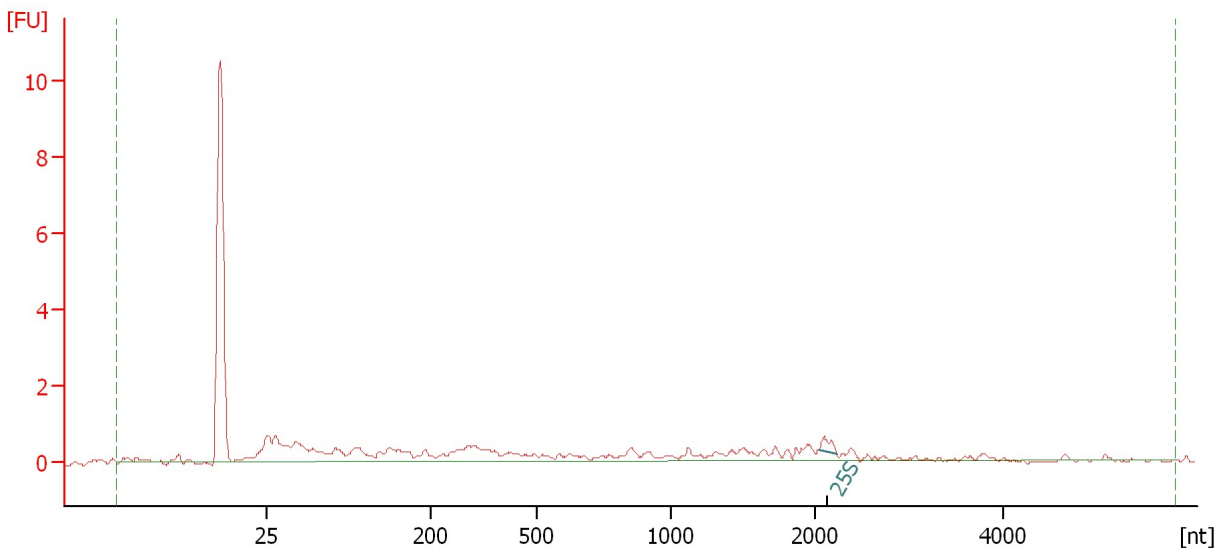
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,610	1,875	5.9	3.2
25S	2,517	2,941	2.4	1.3

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary Continued ...

Mv Trichome 1



Overall Results for sample 7 : Mv Trichome 1

RNA Area:	31.0	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	22 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Fragment table for sample 7 : Mv Trichome 1

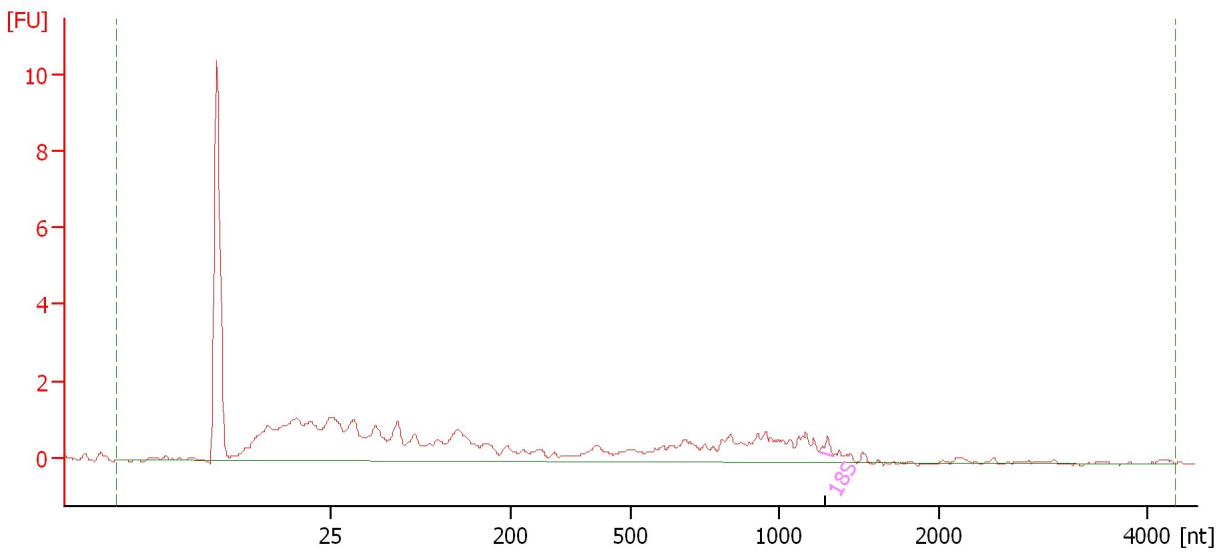
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,034	2,217	0.4	1.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary Continued ...

Mv Trichome 2



Overall Results for sample 8 : Mv Trichome 2

RNA Area:	52.4	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	37 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

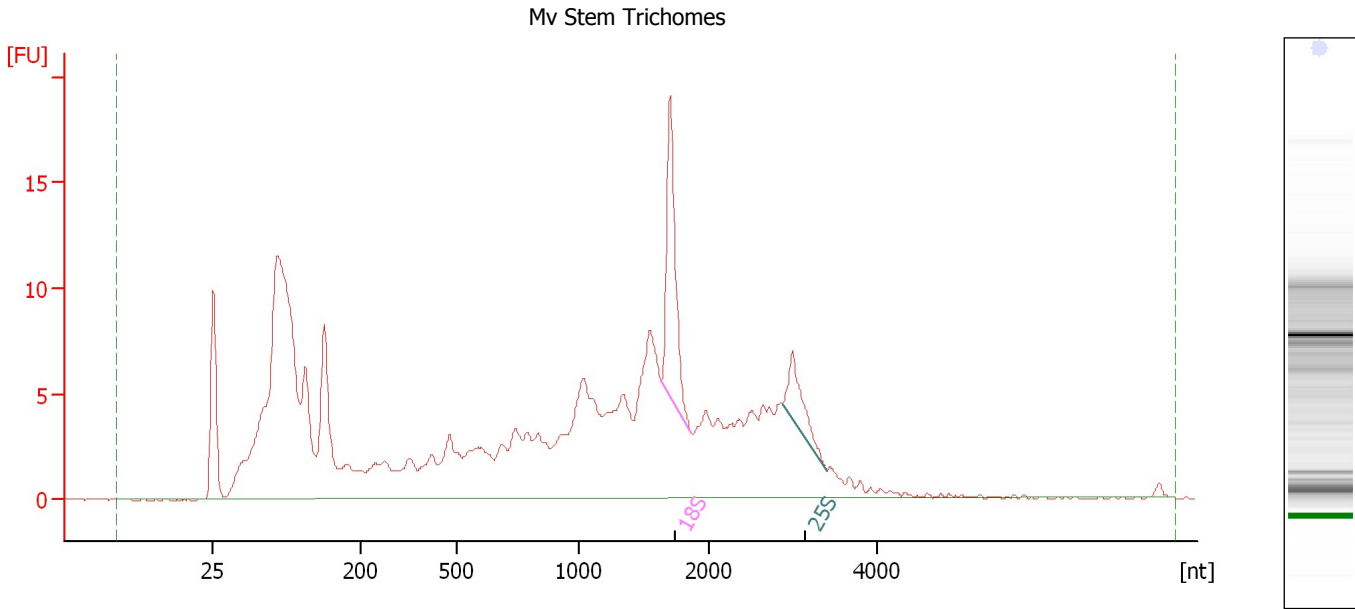
Fragment table for sample 8 : Mv Trichome 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,248	1,341	0.3	0.5

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
 Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Mv Stem Trichomes

RNA Area:	285.6	RNA Integrity Number (RIN):	4.5 (B.02.08)
RNA Concentration:	204 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.3	Result Flagging Label:	RIN: 4.50

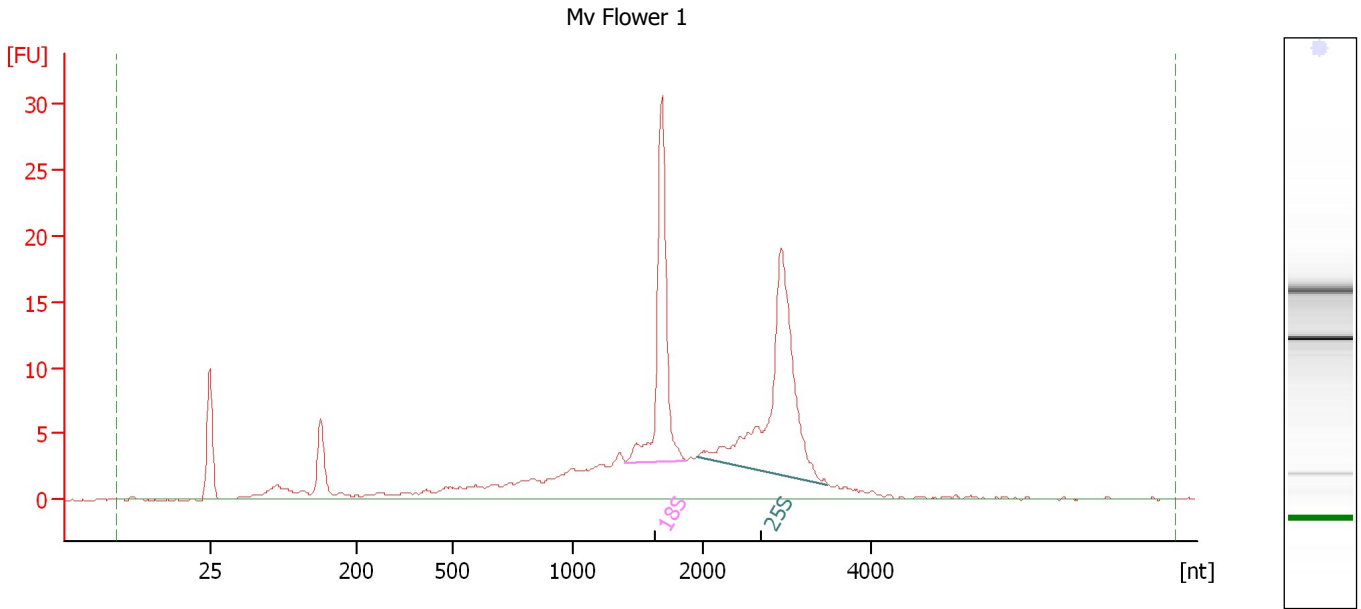
Fragment table for sample 9 : Mv Stem Trichomes

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	1,863	14.9	5.2
25S	2,877	3,409	4.8	1.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Mv Flower 1

RNA Area: 186.7 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 133 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.5 Result Flagging Label: RIN:8

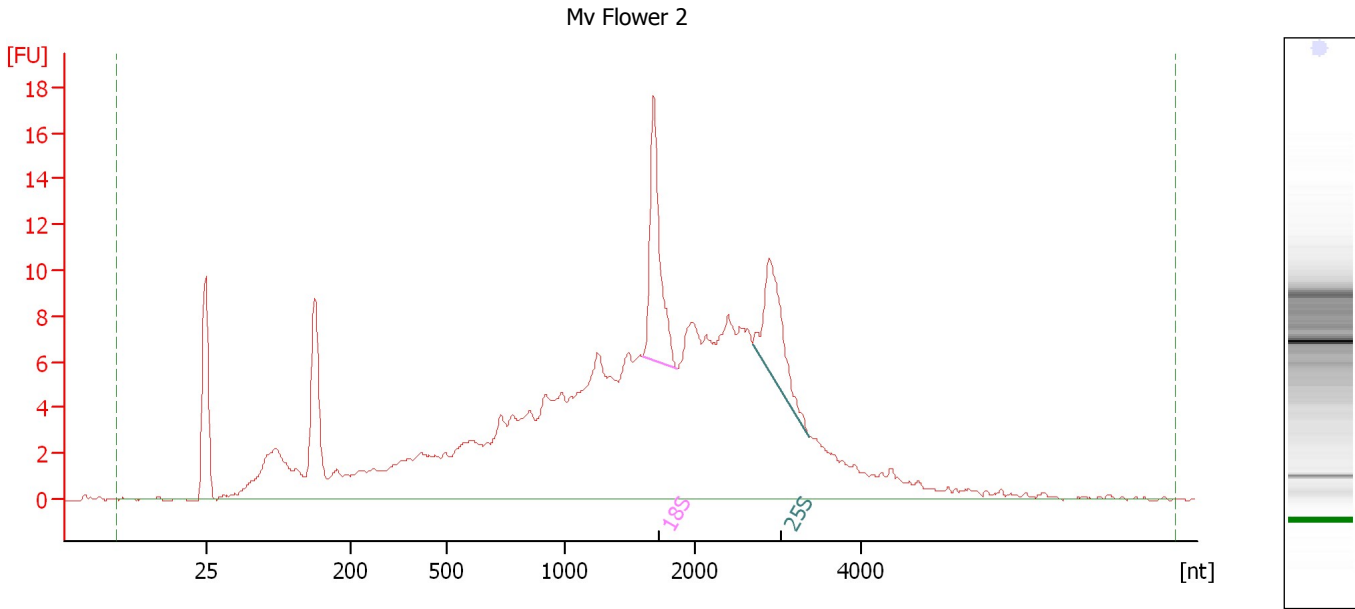
Fragment table for sample 10 : Mv Flower 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,409	1,870	29.6	15.9
25S	1,952	3,493	45.5	24.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Mv Flower 2

RNA Area: 286.7 RNA Integrity Number (RIN): 4.7 (B.02.08)
RNA Concentration: 204 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.7 Result Flagging Label: RIN: 4.70

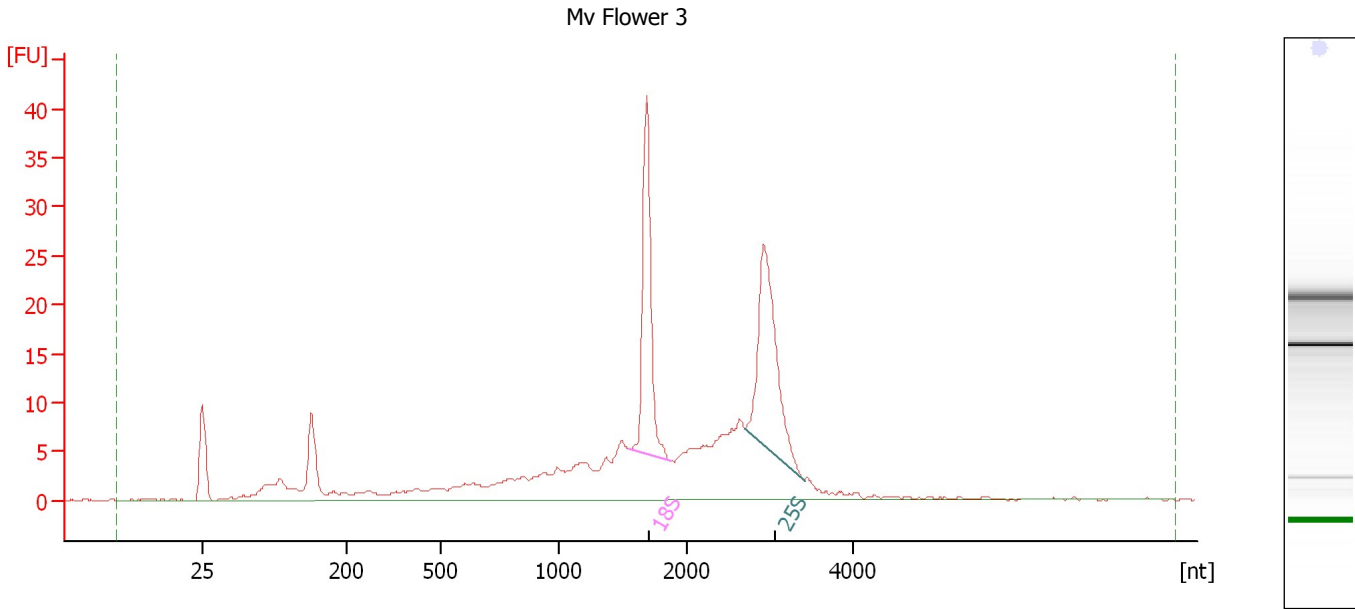
Fragment table for sample 11 : Mv Flower 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,602	1,867	14.1	4.9
25S	2,707	3,375	10.4	3.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Mv Flower 3

RNA Area: 272.5 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 194 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 7.30

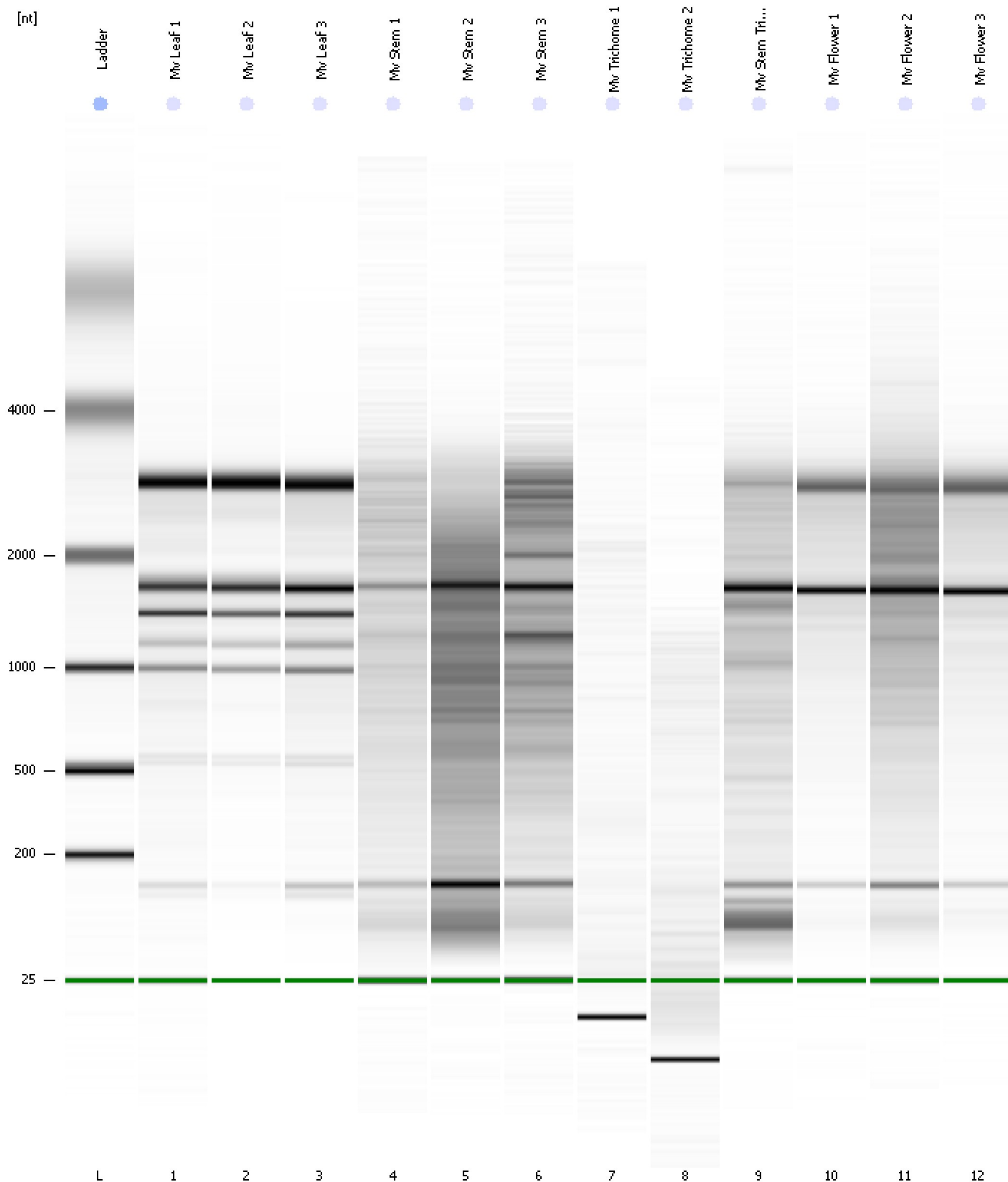
Fragment table for sample 12 : Mv Flower 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,540	1,866	35.6	13.1
25S	2,684	3,409	41.1	15.1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Gel Image

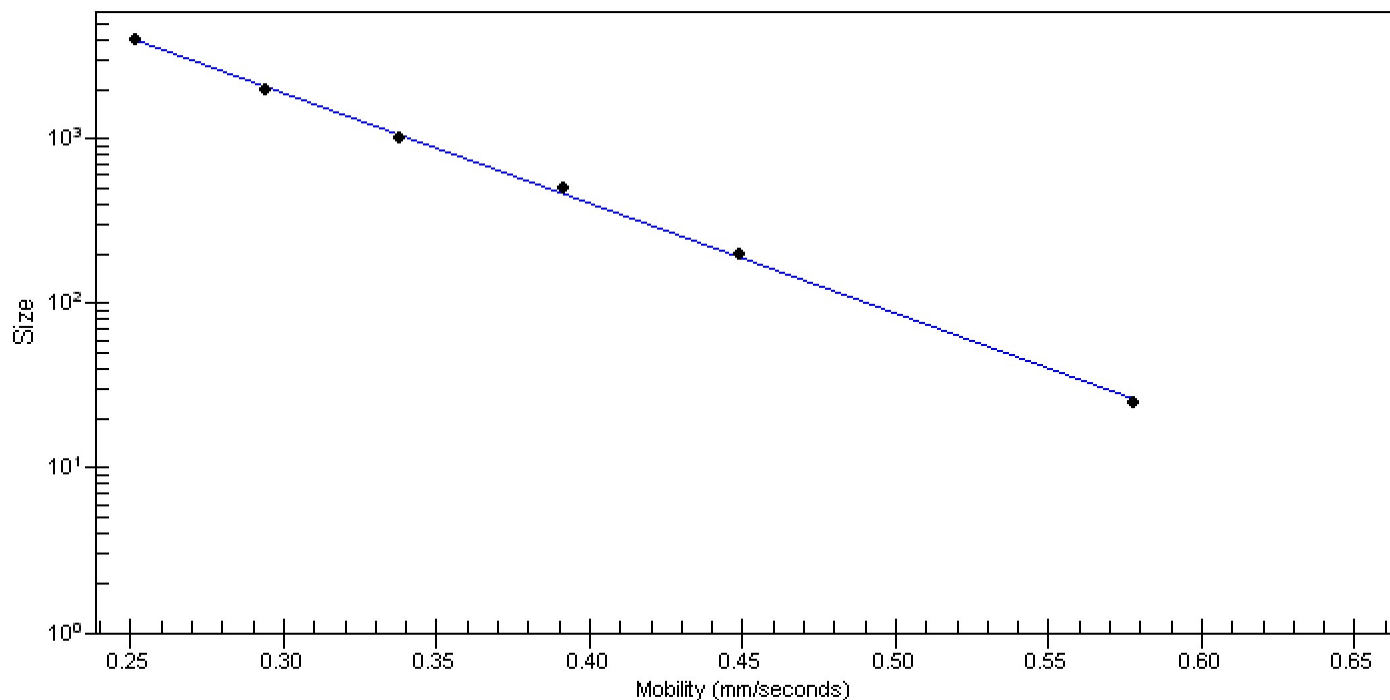


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
Modified: 10/1/2015 3:13:31 PM

Curves

Standard Curve



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad

Created: 10/1/2015 2:49:40 PM
 Modified: 10/1/2015 3:13:31 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		10/1/2015 3:13:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-01\2015-10-01_002.xad)		Instrument	Run		10/1/2015 2:49:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/1/2015 2:49:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/1/2015 2:49:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/1/2015 2:49:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/1/2015 2:49:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/1/2015 2:49:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/1/2015 2:49:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1