

Assay Class: Plant RNA Nano
Data Path: C:\...nd Settings\Bioanalyzer\2015-11-04\2015-11-04_002_fixed.xad

Created: 11/4/2015 3:20:32 PM
Modified: 11/4/2015 3:51:48 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)

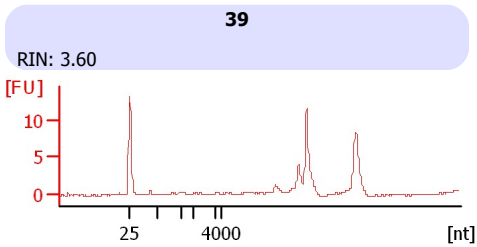
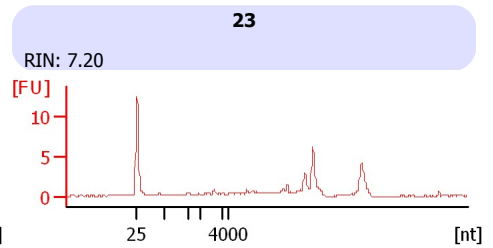
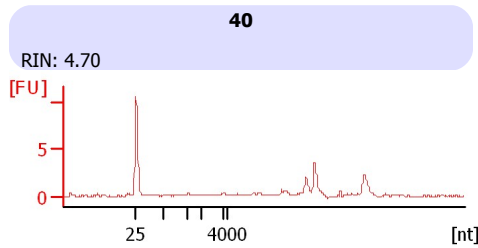
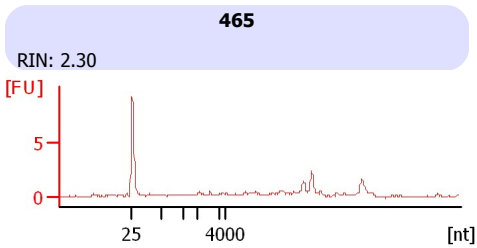
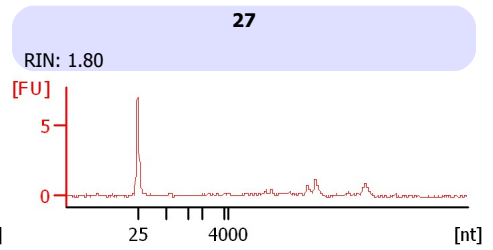
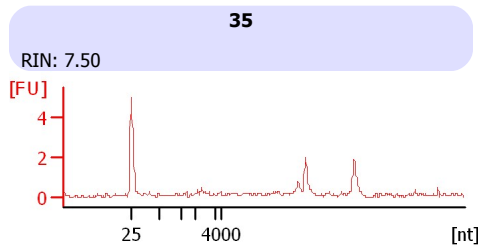
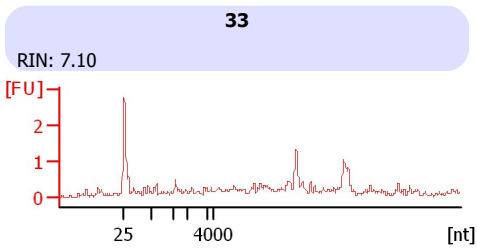
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
33		✓	RIN: 7.10	
35		✓	RIN: 7.50	
27		✓	RIN: 1.80	
465		✓	RIN: 2.30	
40		✓	RIN: 4.70	
23		✓	RIN: 7.20	
39		✓	RIN: 3.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

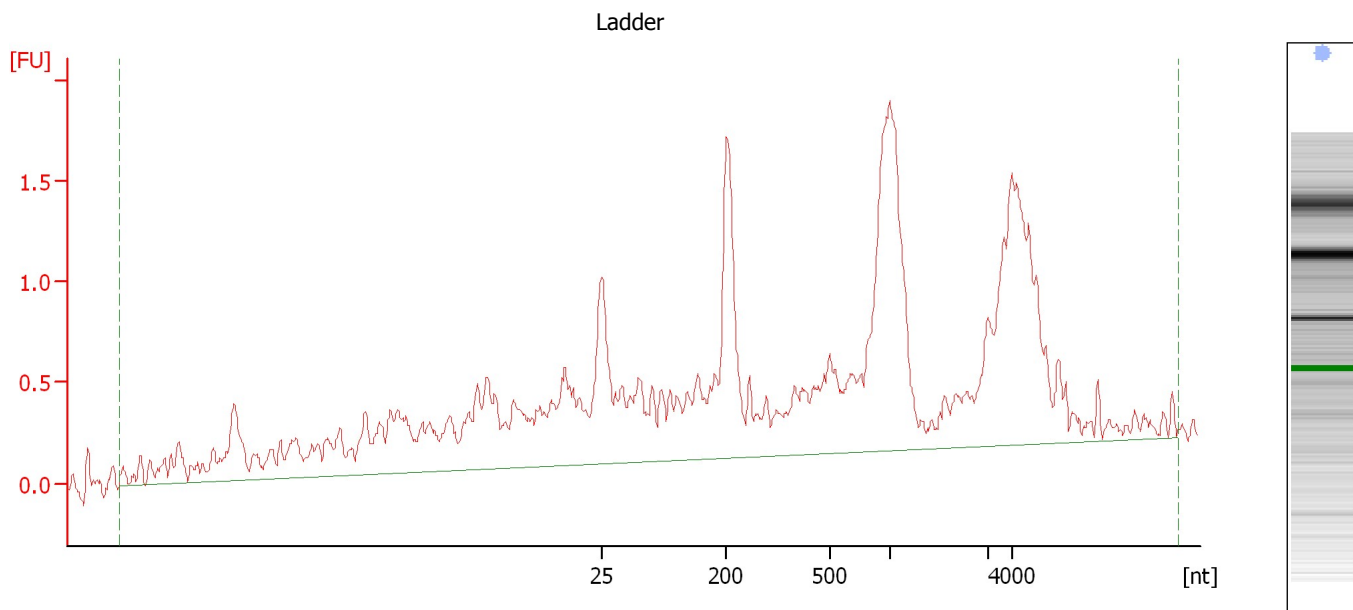
Ladder

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

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Electropherogram Summary



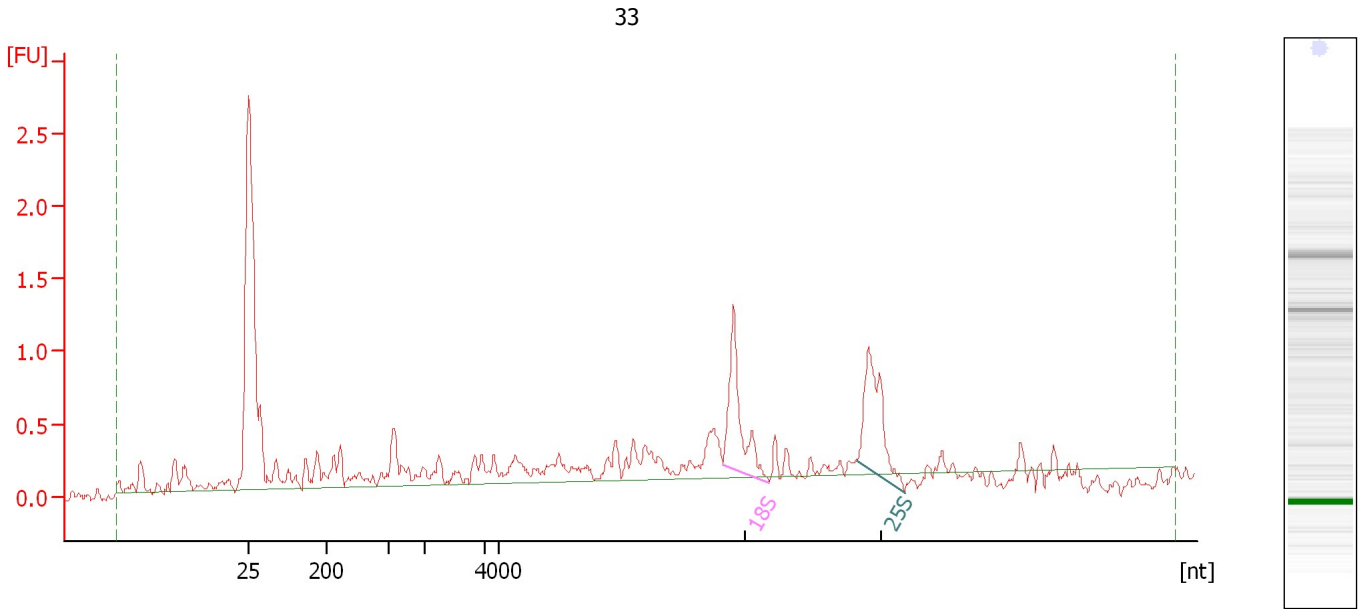
Overall Results for Ladder

RNA Area:	32.5	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 33

RNA Area:	11.3	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	52 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.0	Result Flagging Label:	RIN: 7.10

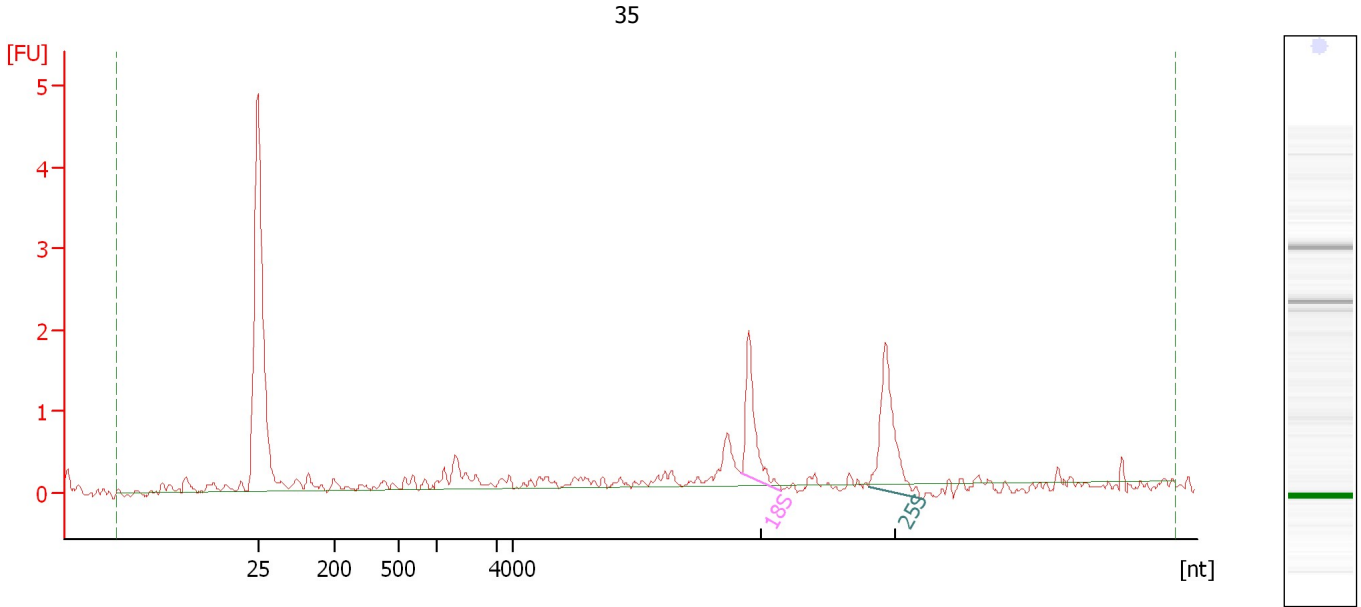
Fragment table for sample 2 : 33

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	35,224	41,620	1.4	12.2
25S	53,817	60,362	1.4	12.3

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 35

RNA Area: 11.3 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 52 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 7.50

Fragment table for sample 3 : 35

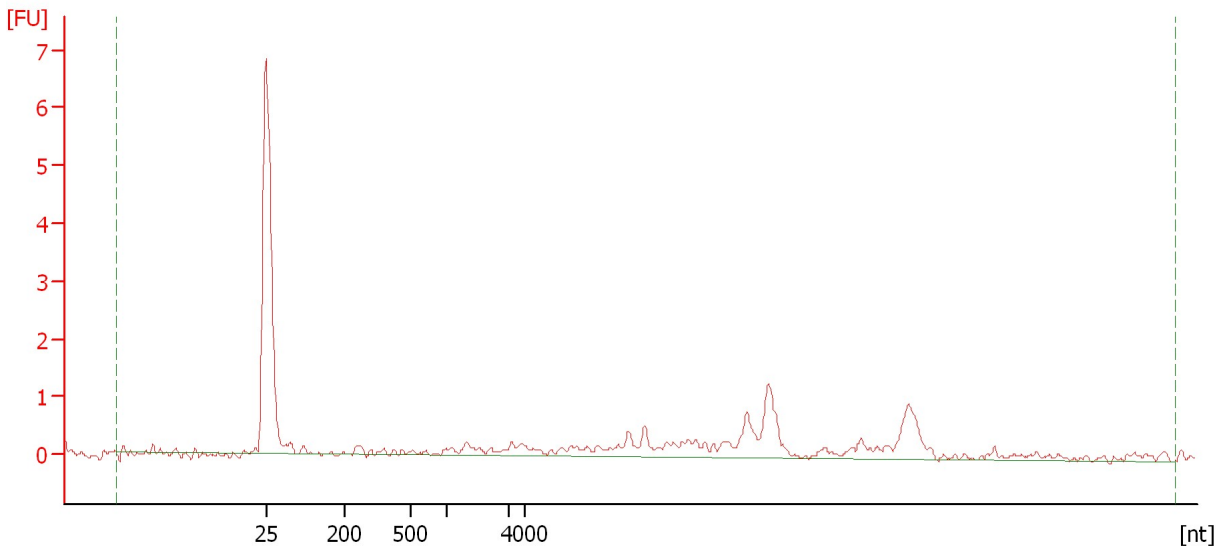
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	35,383	40,949	1.7	15.4
25S	52,813	60,282	2.4	21.6

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Electropherogram Summary Continued ...

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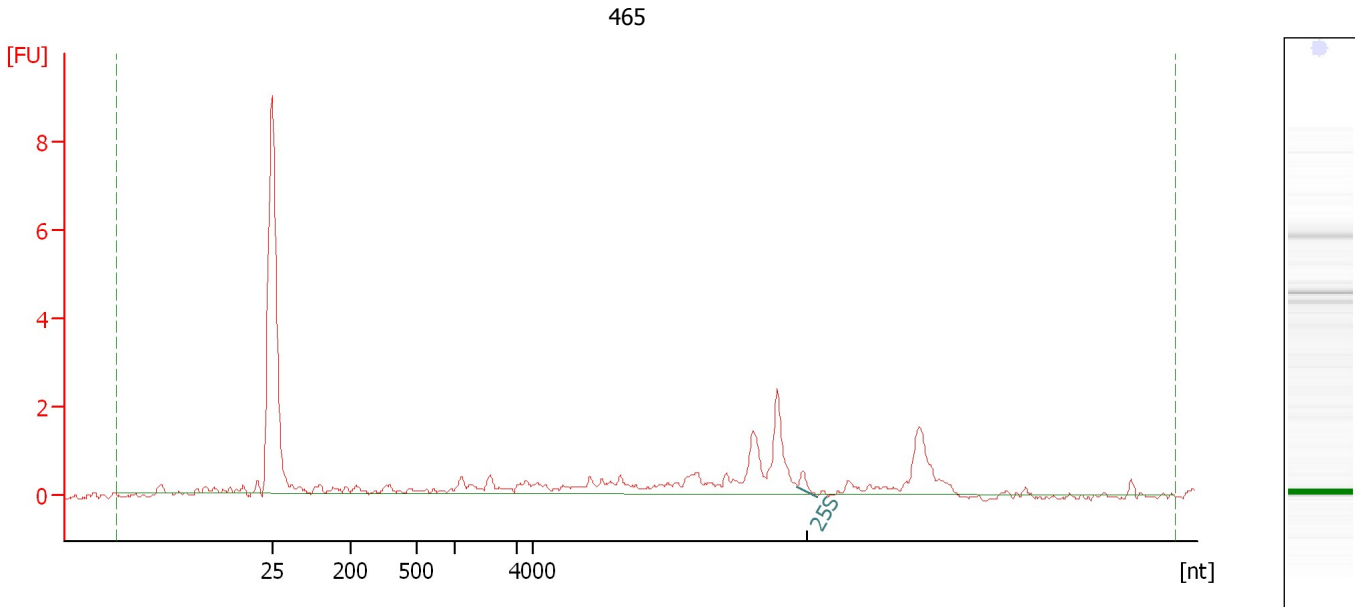
Overall Results for sample 4 : 27

RNA Area:	13.3	RNA Integrity Number (RIN):	1.8 (B.02.08)
RNA Concentration:	61 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.80

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Electropherogram Summary Continued ...



Overall Results for sample 5 : 465

RNA Area:	19.9	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	92 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

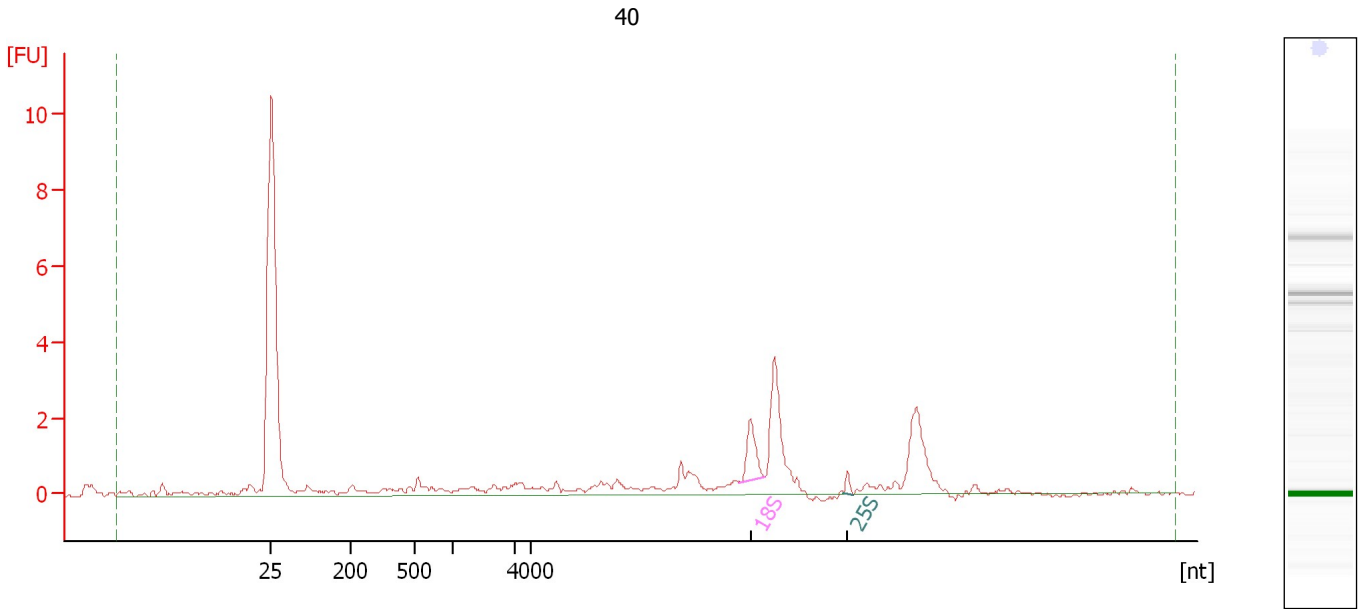
Fragment table for sample 5 : 465

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	39,491	42,206	0.3	1.3

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 40

RNA Area: 23.9 RNA Integrity Number (RIN): 4.7 (B.02.08)
RNA Concentration: 110 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.2 Result Flagging Label: RIN: 4.70

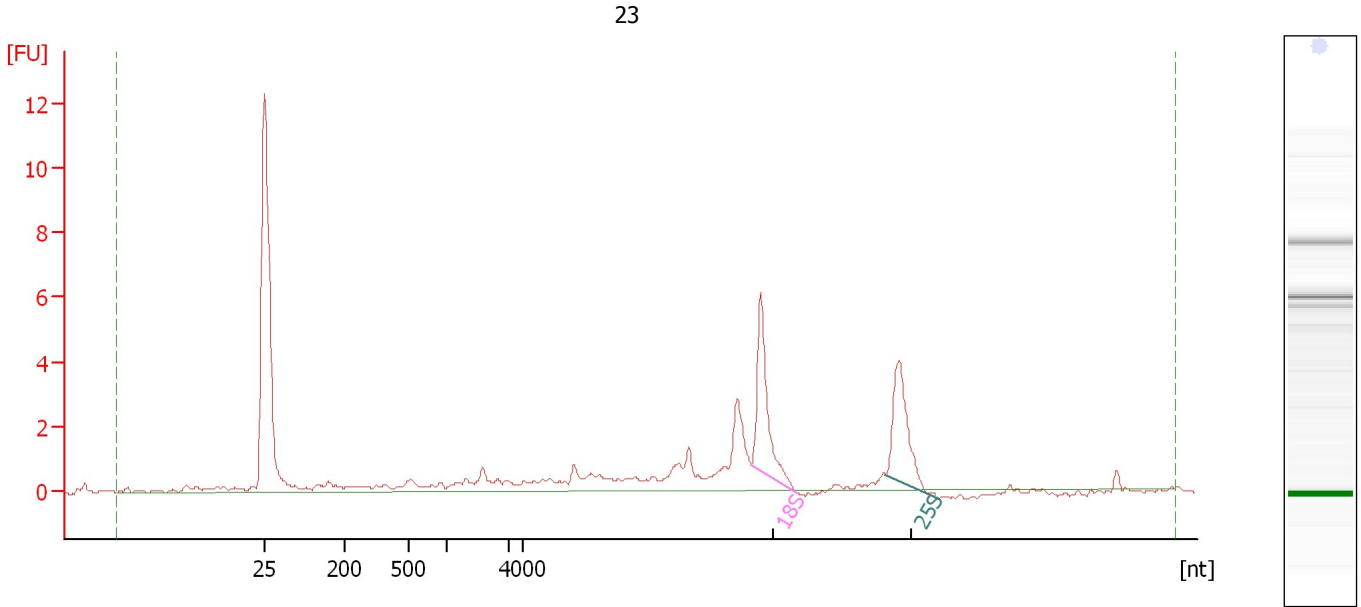
Fragment table for sample 6 : 40

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	31,891	35,327	1.5	6.4
25S	45,922	47,068	0.2	1.0

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 23

RNA Area:	37.4	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	172 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.8	Result Flagging Label:	RIN: 7.20

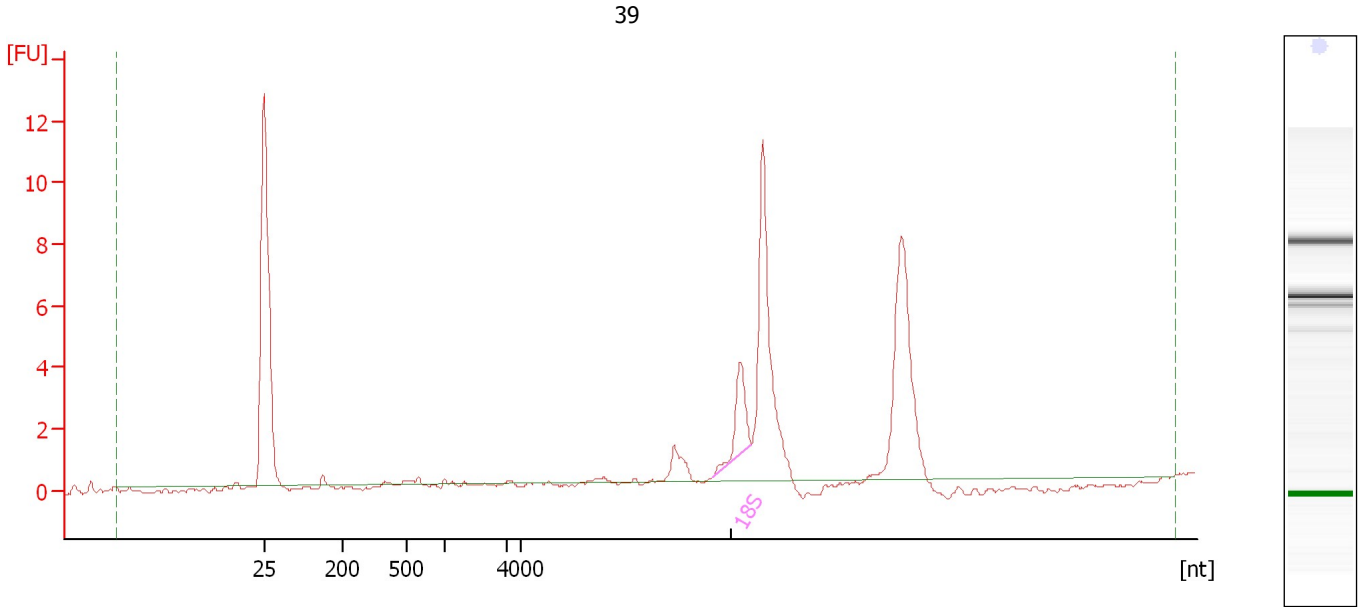
Fragment table for sample 8 : 23

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	34,941	41,011	6.1	16.2
25S	53,007	60,233	5.1	13.7

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 39

RNA Area:	34.6	RNA Integrity Number (RIN):	3.6 (B.02.08)
RNA Concentration:	160 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 3.60

Fragment table for sample 9 : 39

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	29,853	35,210	3.1	8.9

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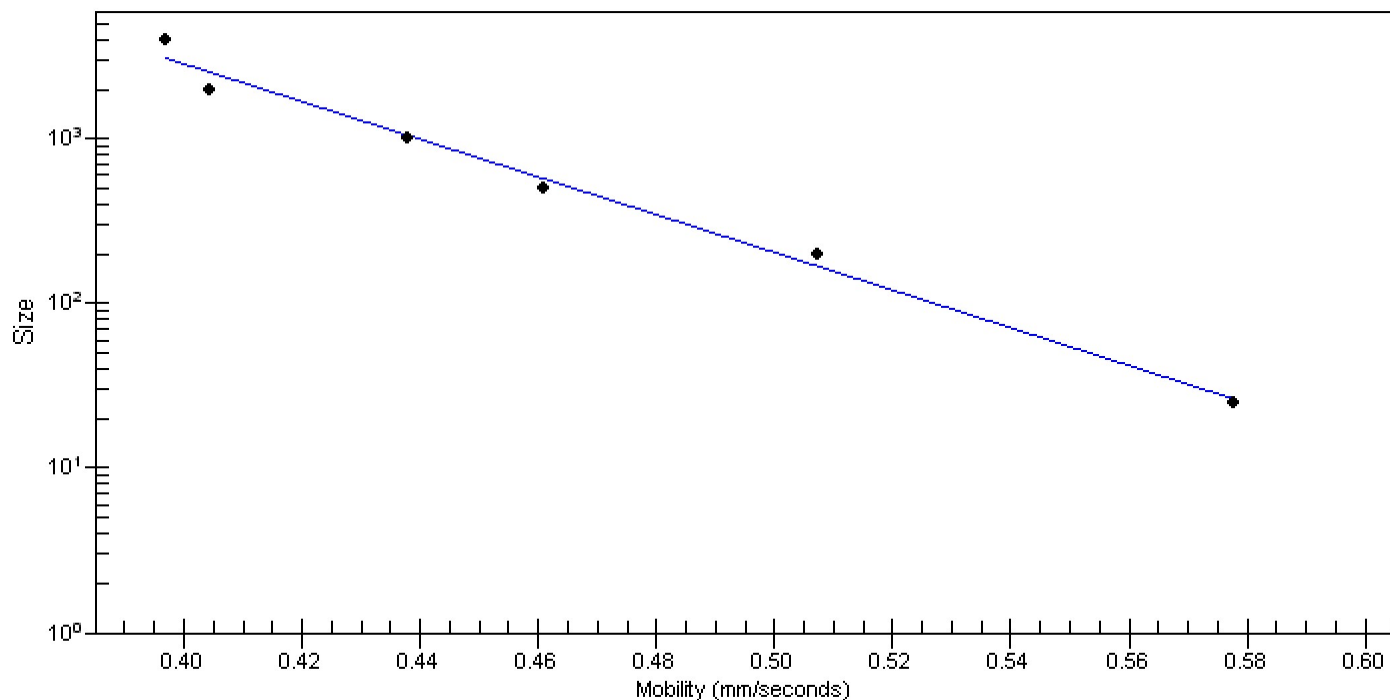
Gel Image

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Curves

Standard Curve



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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		11/4/2015 11:44:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-04\2015-11-04_002.xad)		Instrument	Run		11/4/2015 11:20:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/4/2015 11:20:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/4/2015 11:20:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/4/2015 11:20:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/4/2015 11:20:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/4/2015 11:20:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/4/2015 11:20:38 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1