

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...d Settings\Bioanalyzer\2015-09-22\2015-09-22_002_QC_043.xad

Created: 9/22/2015 12:46:58 PM
Modified: 9/22/2015 1:21:21 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\Eukaryote Total RNA Nano Series II.xsy

Assay Class: Eukaryote Total RNA Nano

Version: 2.6

Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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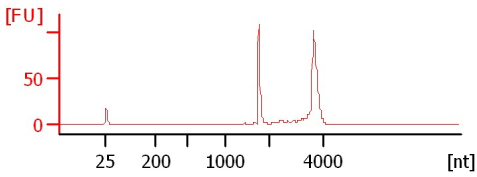
Chip Information:

Chip Lot #:

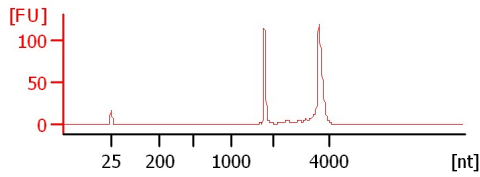
Reagent Kit Lot #:

Chip Comments:

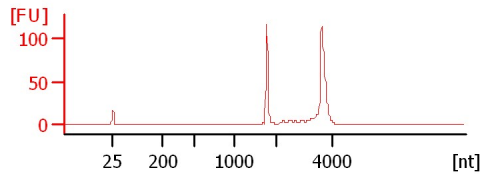
ctrl 1
QC_043
RIN: 9.80



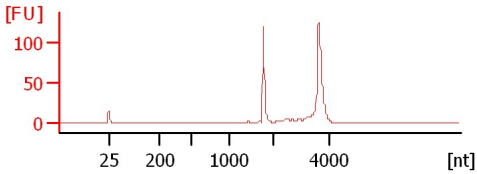
ctrl 2
QC_043
RIN: 9.80



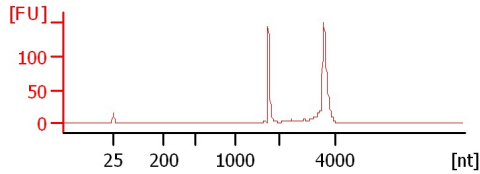
ctrl 3
QC_043
RIN: 9.80



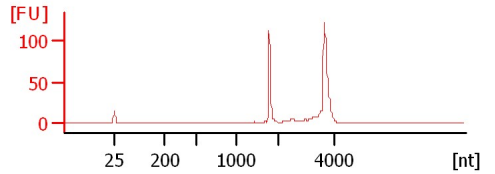
tr 1
QC_043
RIN: 9.80



tr 2
QC_043
RIN: 9.90



tr1
QC_043
RIN: 9.80



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
ctrl 1	QC_043	✓	RIN: 9.80	
ctrl 2	QC_043	✓	RIN: 9.80	
ctrl 3	QC_043	✓	RIN: 9.80	
tr 1	QC_043	✓	RIN: 9.80	
tr 2	QC_043	✓	RIN: 9.90	
tr1	QC_043	✓	RIN: 9.80	
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/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] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

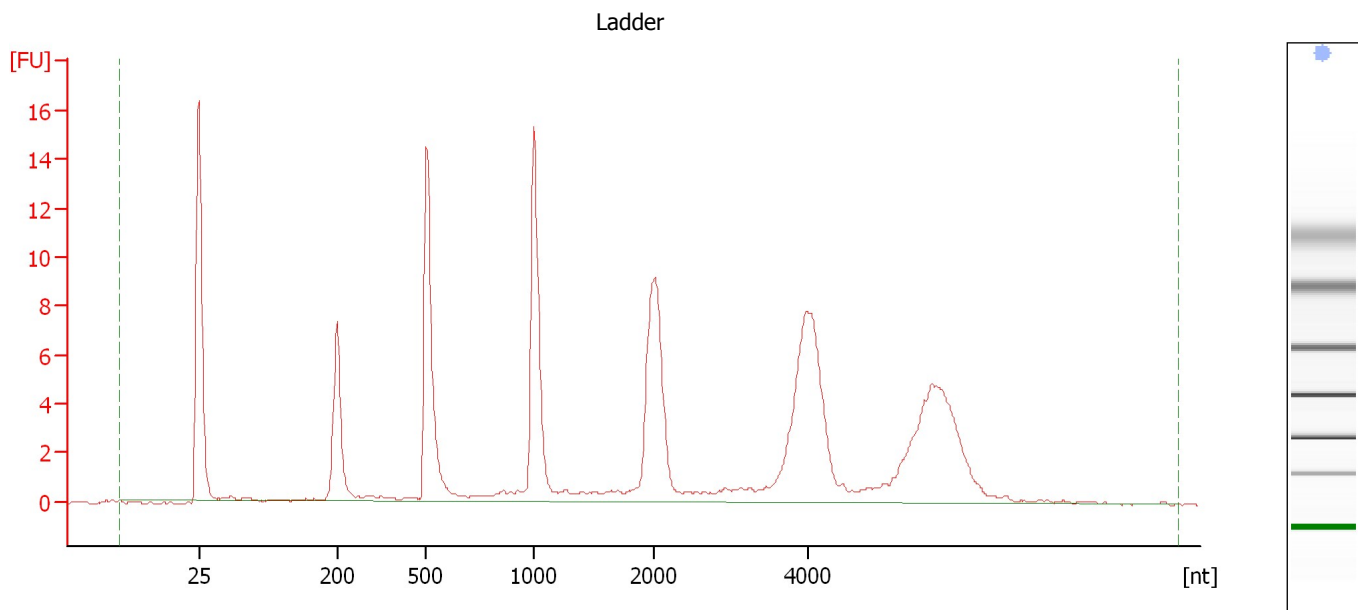
Ladder

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

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Electropherogram Summary



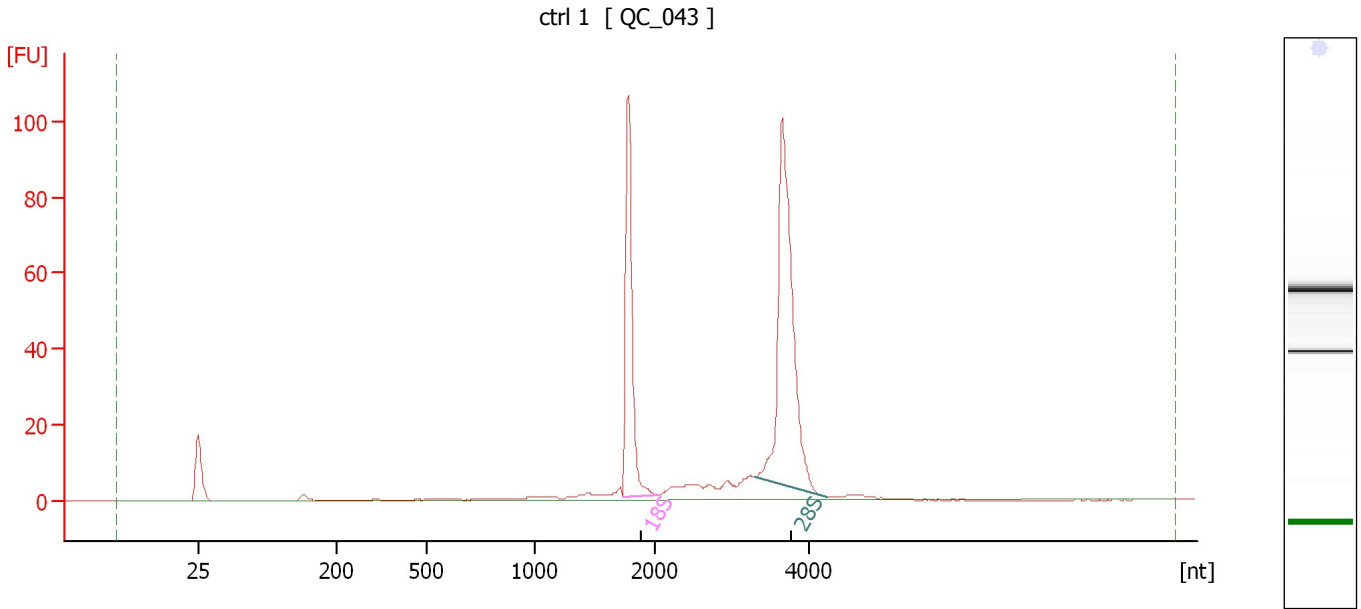
Overall Results for Ladder

RNA Area:	124.8	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

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Modified: 9/22/2015 1:21:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ctrl 1

RNA Area: 306.7 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 369 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.80

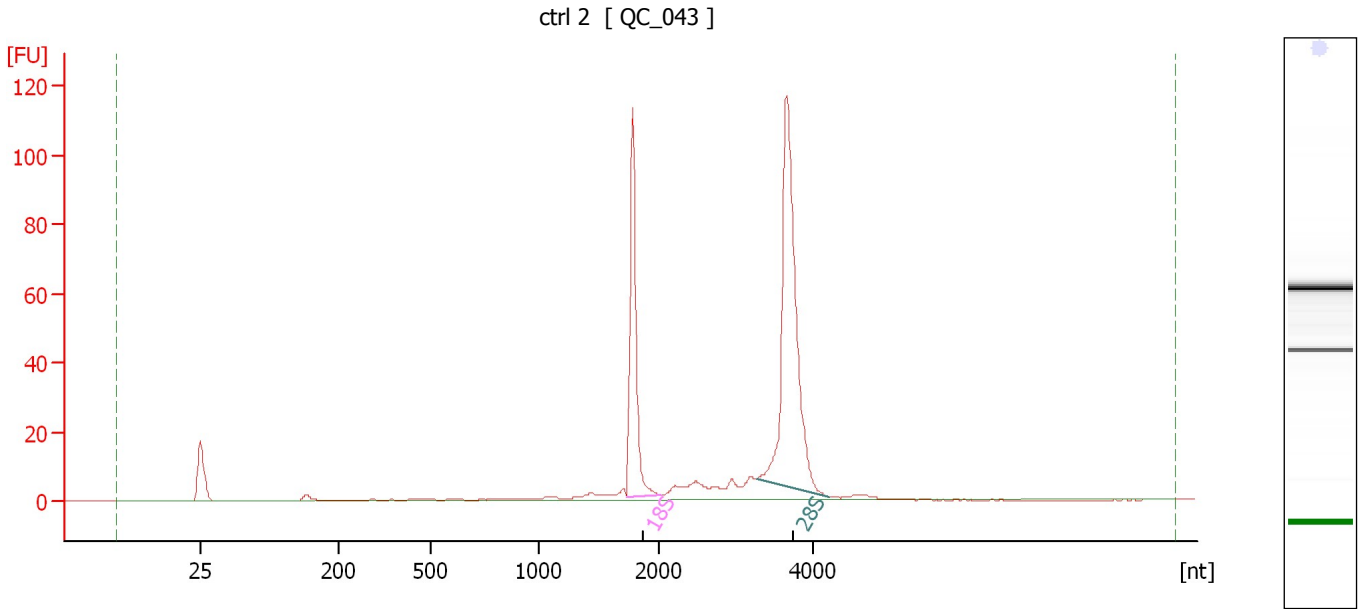
Fragment table for sample 1 : ctrl 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,725	2,044	78.7	25.7
28S	3,297	4,244	146.8	47.9

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Created: 9/22/2015 12:46:58 PM
 Modified: 9/22/2015 1:21:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : ctrl 2

RNA Area:	336.9	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	405 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.80

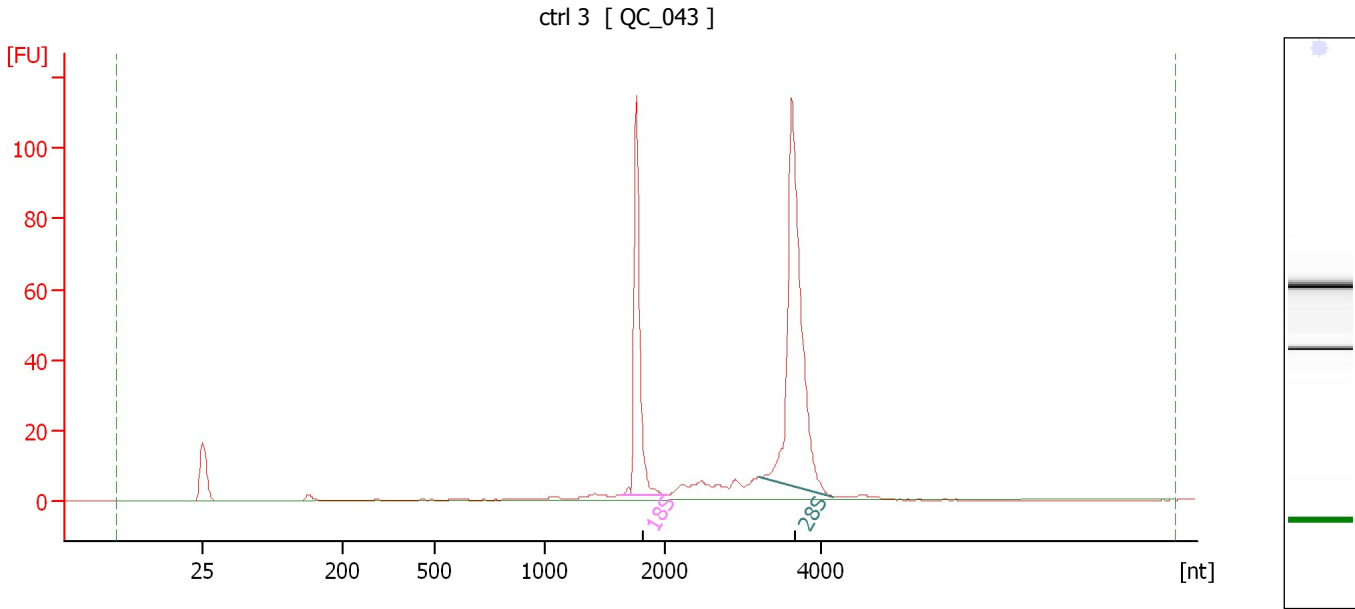
Fragment table for sample 2 : ctrl 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,728	2,018	83.9	24.9
28S	3,252	4,195	160.9	47.7

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Electropherogram Summary Continued ...



Overall Results for sample 3 : ctrl 3

RNA Area: 327.4 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 394 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.80

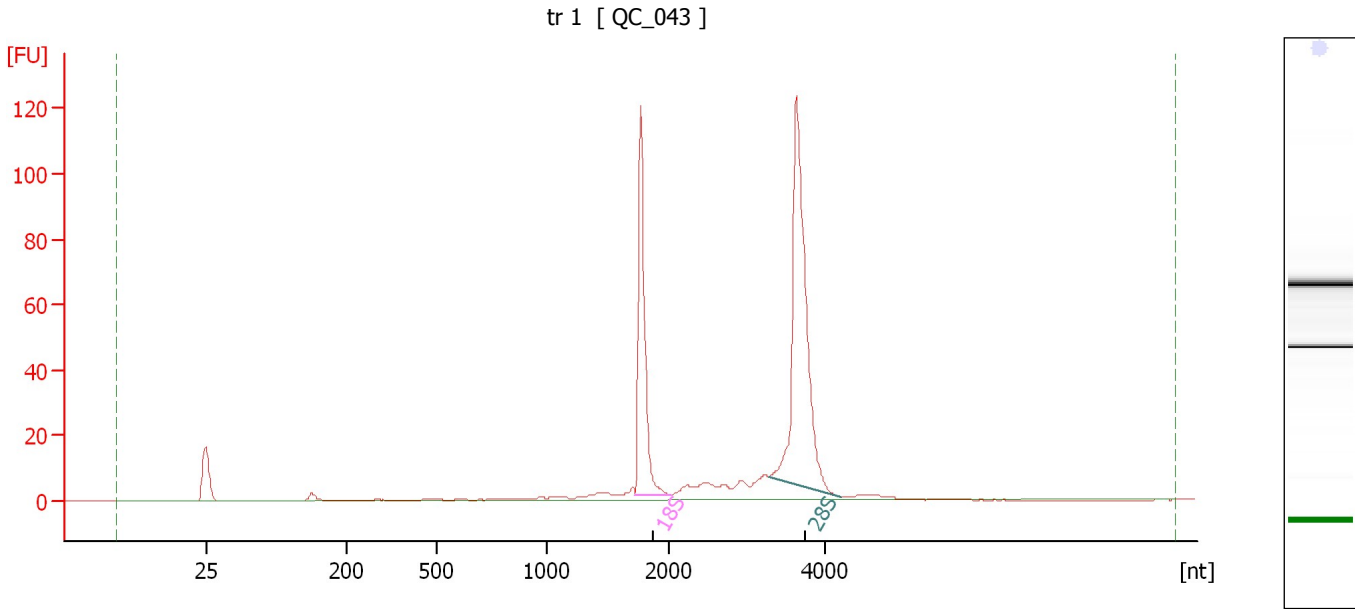
Fragment table for sample 3 : ctrl 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,626	2,021	83.9	25.6
28S	3,192	4,171	154.8	47.3

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Modified: 9/22/2015 1:21:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : tr 1

RNA Area: 364.0 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 438 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.80

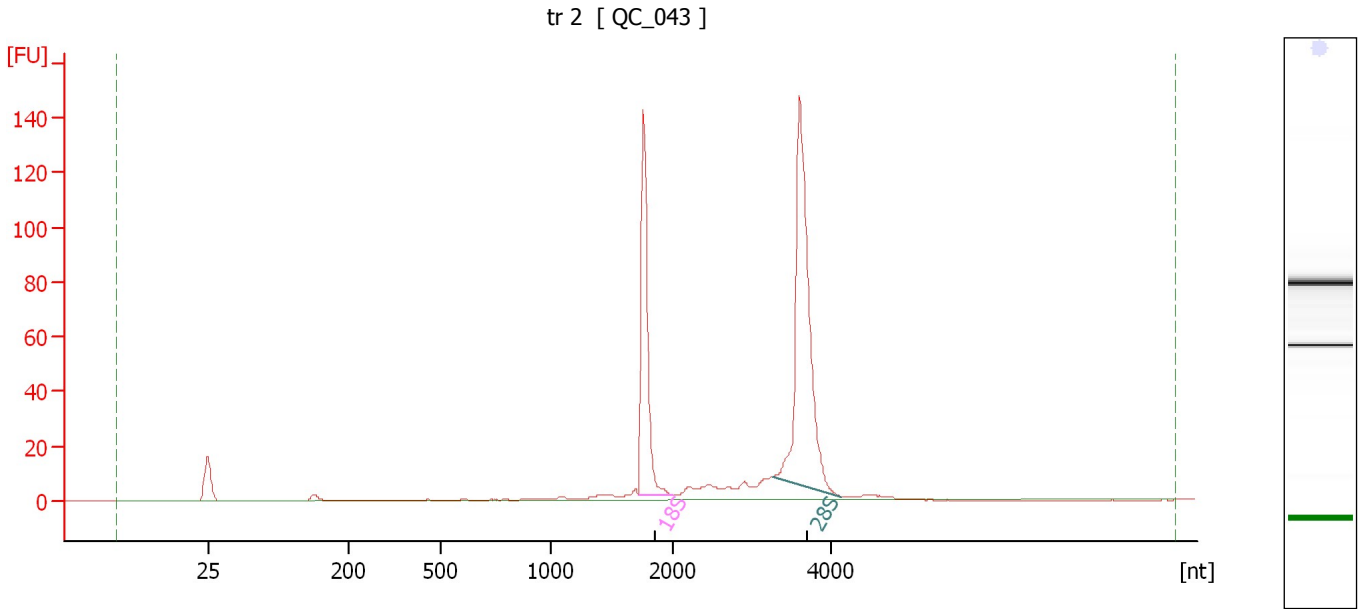
Fragment table for sample 4 : tr 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,717	2,010	90.1	24.8
28S	3,272	4,191	164.9	45.3

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Created: 9/22/2015 12:46:58 PM
Modified: 9/22/2015 1:21:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : tr 2

RNA Area: 412.4 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 496 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.90

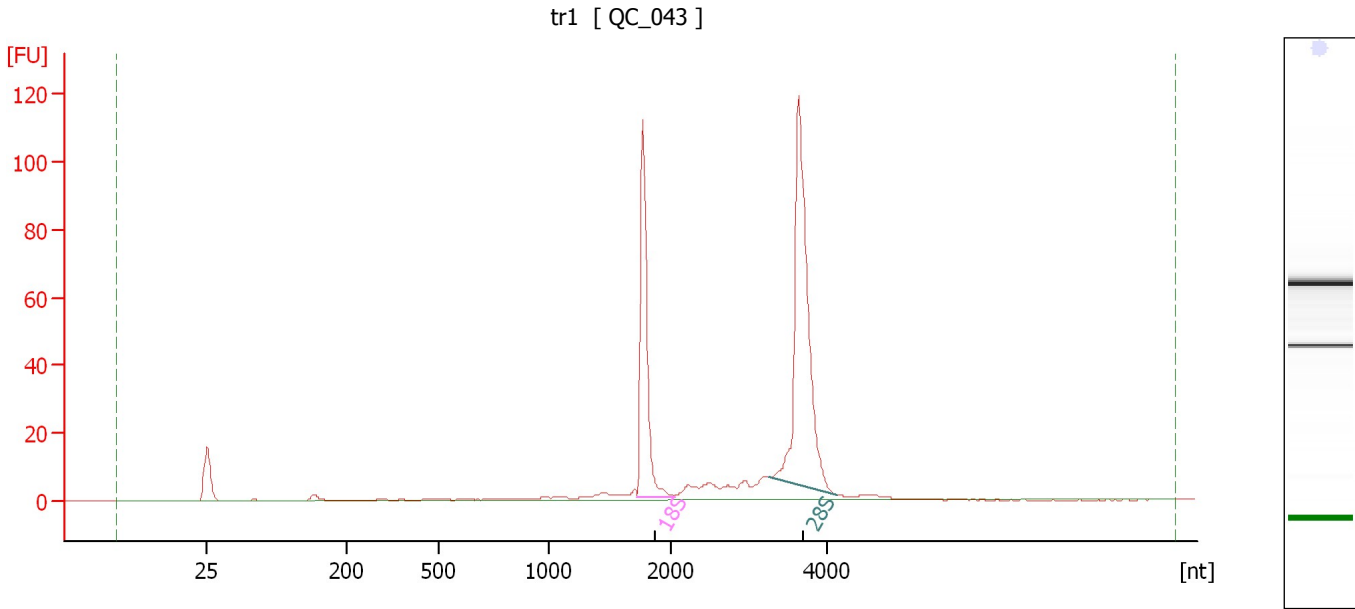
Fragment table for sample 5 : tr 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,711	1,999	104.9	25.4
28S	3,269	4,129	191.2	46.4

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 Modified: 9/22/2015 1:21:21 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : tr1

RNA Area:	338.2	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	407 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.80

Fragment table for sample 6 : tr1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,718	2,038	83.9	24.8
28S	3,257	4,105	154.1	45.5

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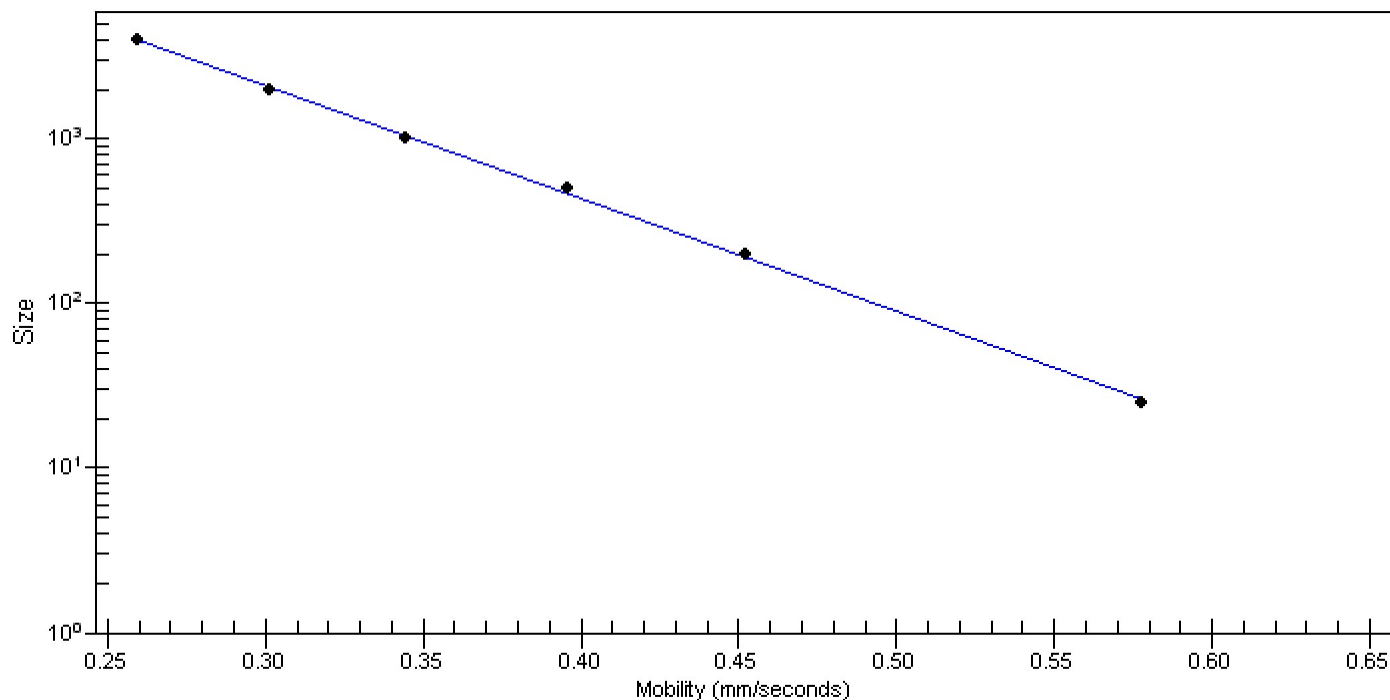
Gel Image

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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		9/22/2015 1:10:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-09-22\2015-09-22_002.xad)		Instrument	Run		9/22/2015 12:47:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/22/2015 12:47:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/22/2015 12:47:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/22/2015 12:47:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/22/2015 12:47:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/22/2015 12:47:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/22/2015 12:47:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1