

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_003.xad

Created: 7/8/2016 11:37:41 AM
Modified: 7/8/2016 11:59:41 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\Eukaryote Total RNA Pico Series II.xsy

Assay Class: Eukaryote Total RNA Pico

Version: 2.6

Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

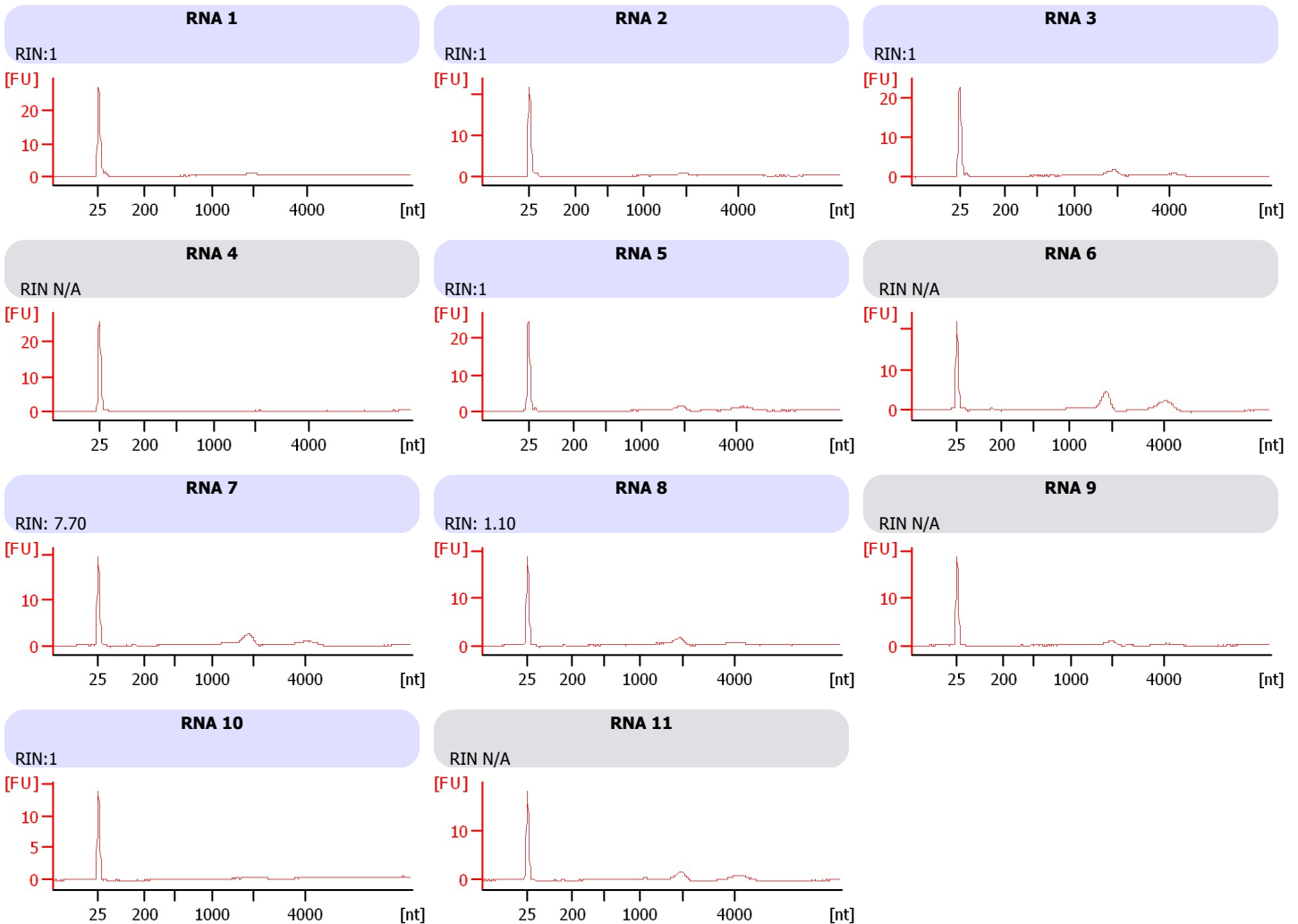
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Chip Information:

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
RNA 1		✓	RIN:1	
RNA 2		✓	RIN:1	
RNA 3		✓	RIN:1	
RNA 4		✓	RIN N/A	
RNA 5		✓	RIN:1	
RNA 6		✓	RIN N/A	
RNA 7		✓	RIN: 7.70	
RNA 8		✓	RIN: 1.10	
RNA 9		✓	RIN N/A	
RNA 10		✓	RIN:1	
RNA 11		✓	RIN N/A	
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.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

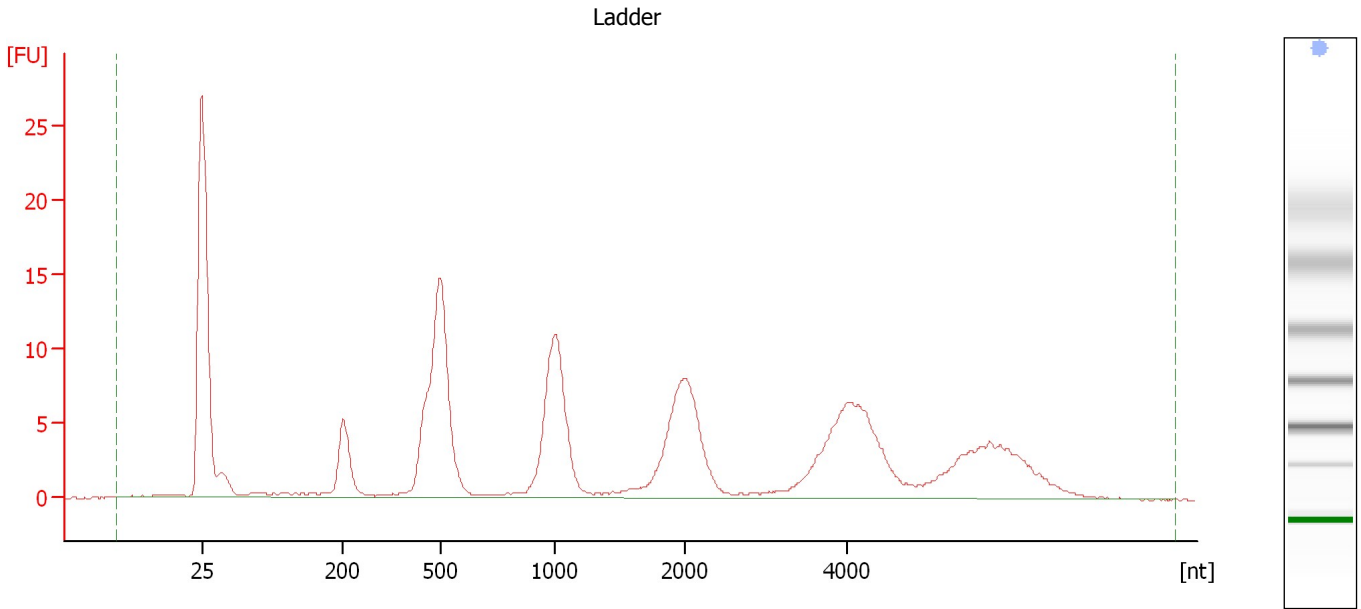
Ladder

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

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Electropherogram Summary



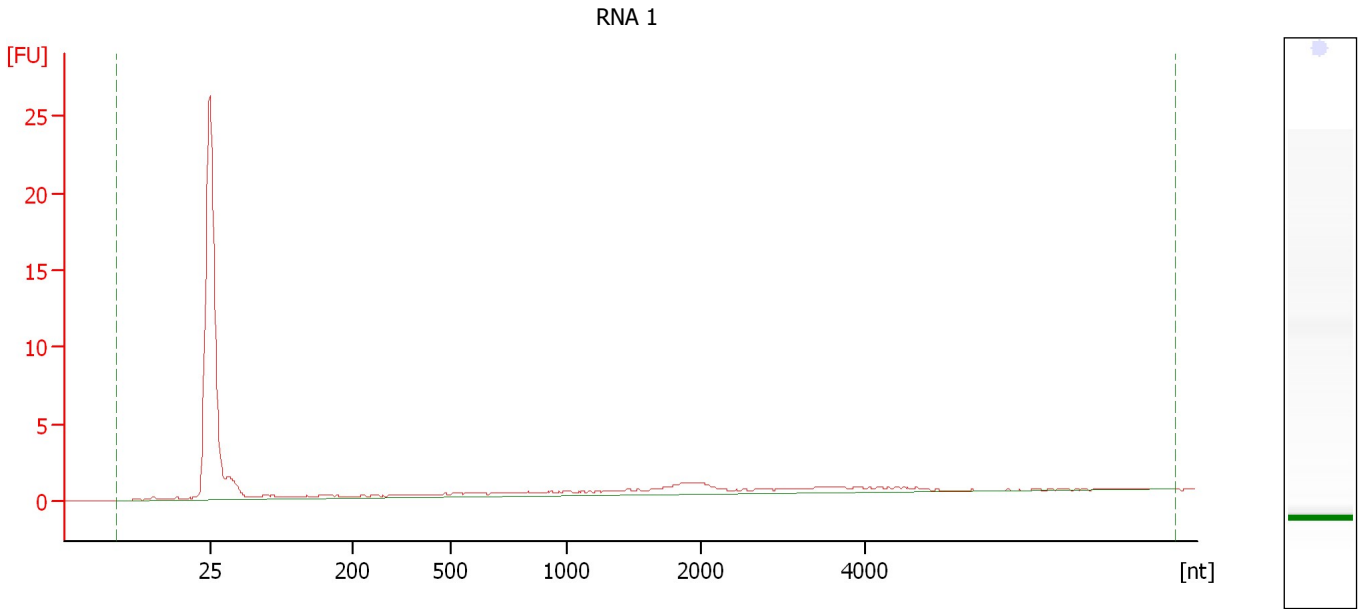
Overall Results for Ladder

RNA Area:	200.6	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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Electropherogram Summary Continued ...



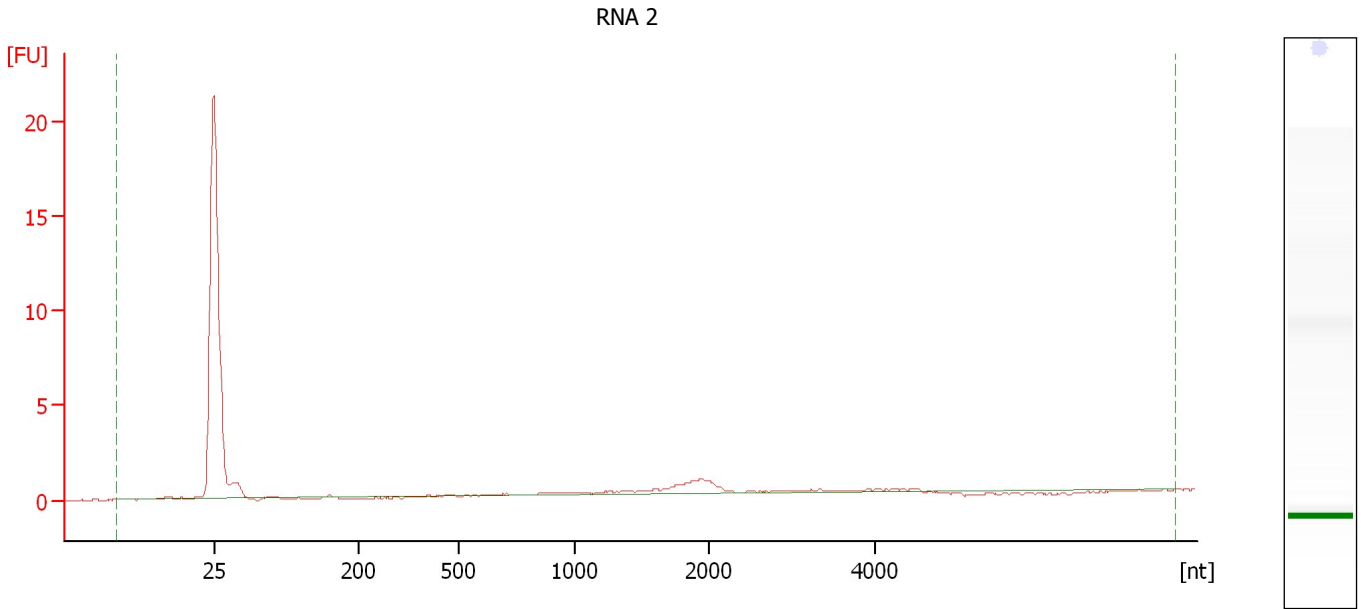
Overall Results for sample 1 : RNA 1

RNA Area:	19.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	98 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

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Electropherogram Summary Continued ...



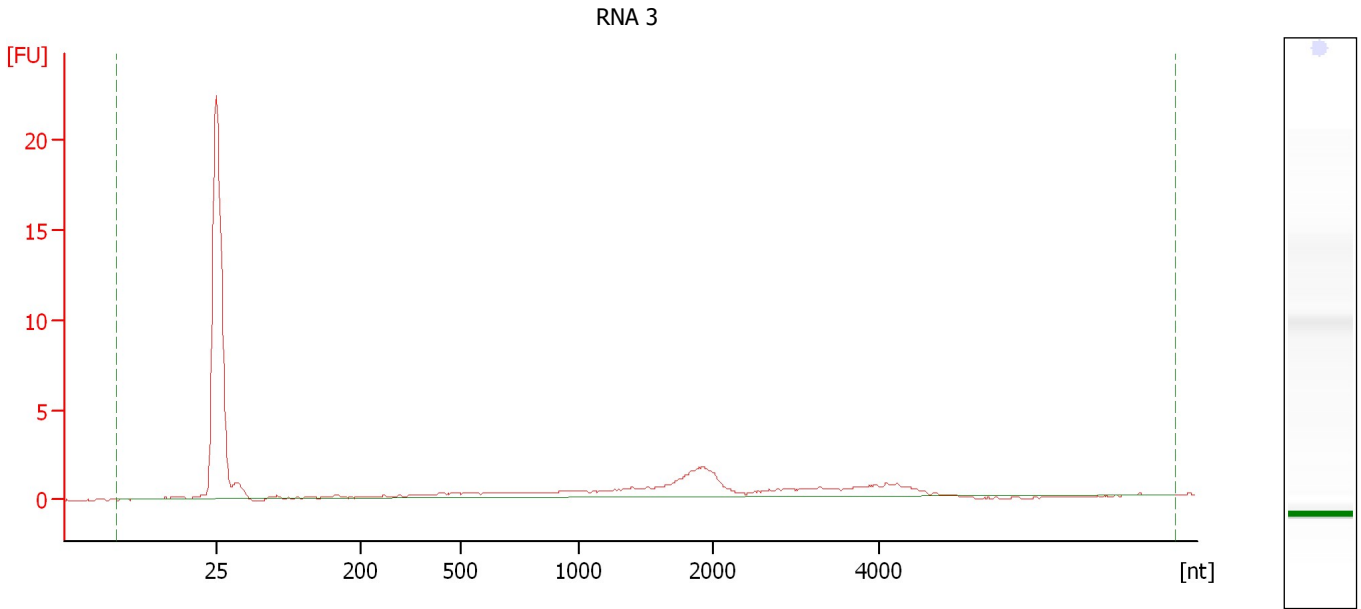
Overall Results for sample 2 : RNA 2

RNA Area:	11.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	58 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

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Electropherogram Summary Continued ...



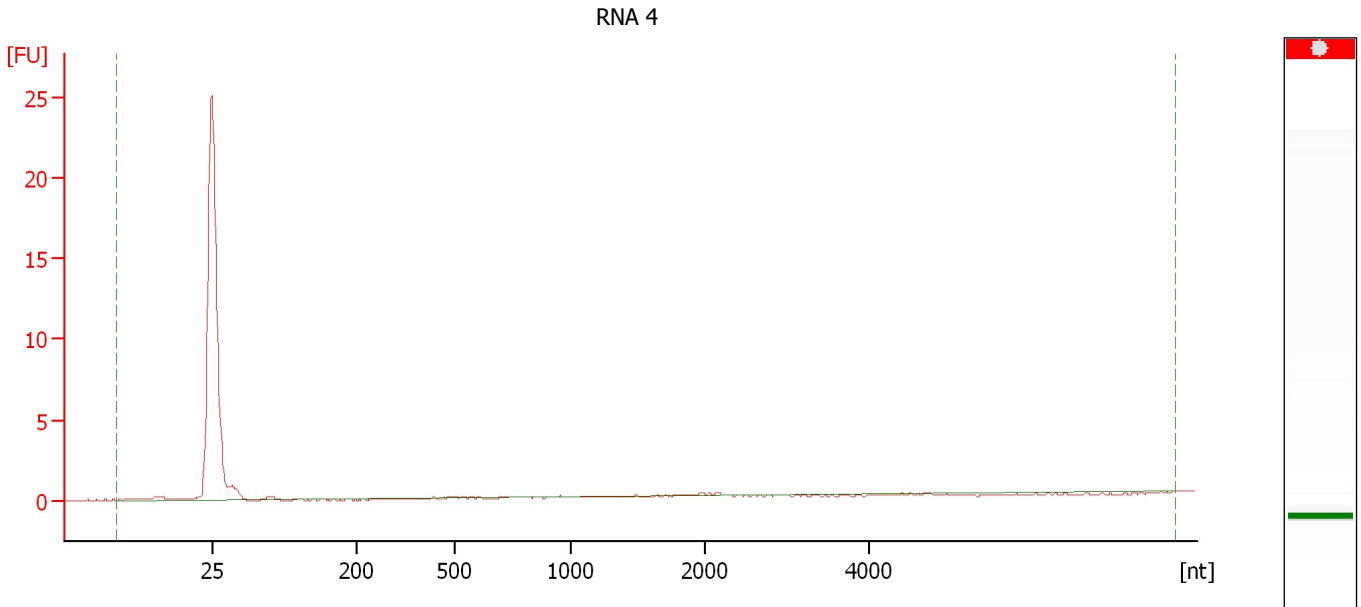
Overall Results for sample 3 : RNA 3

RNA Area:	30.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	150 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

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Electropherogram Summary Continued ...



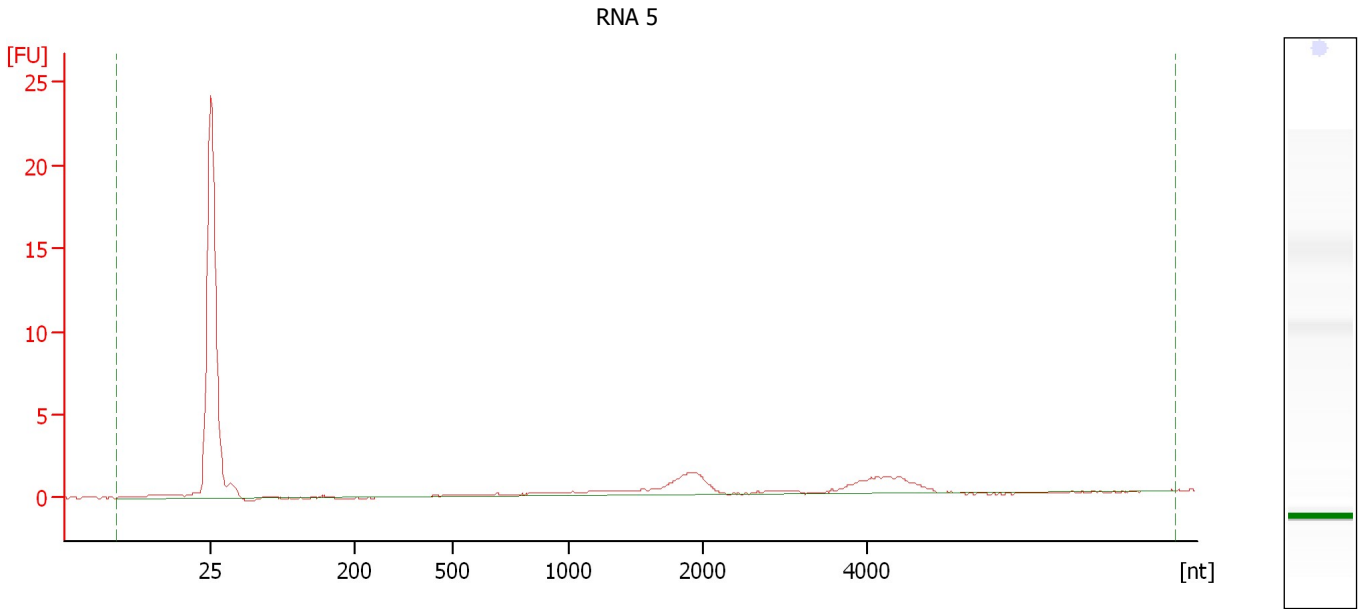
Overall Results for sample 4 : RNA 4

RNA Area:	1.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

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Electropherogram Summary Continued ...



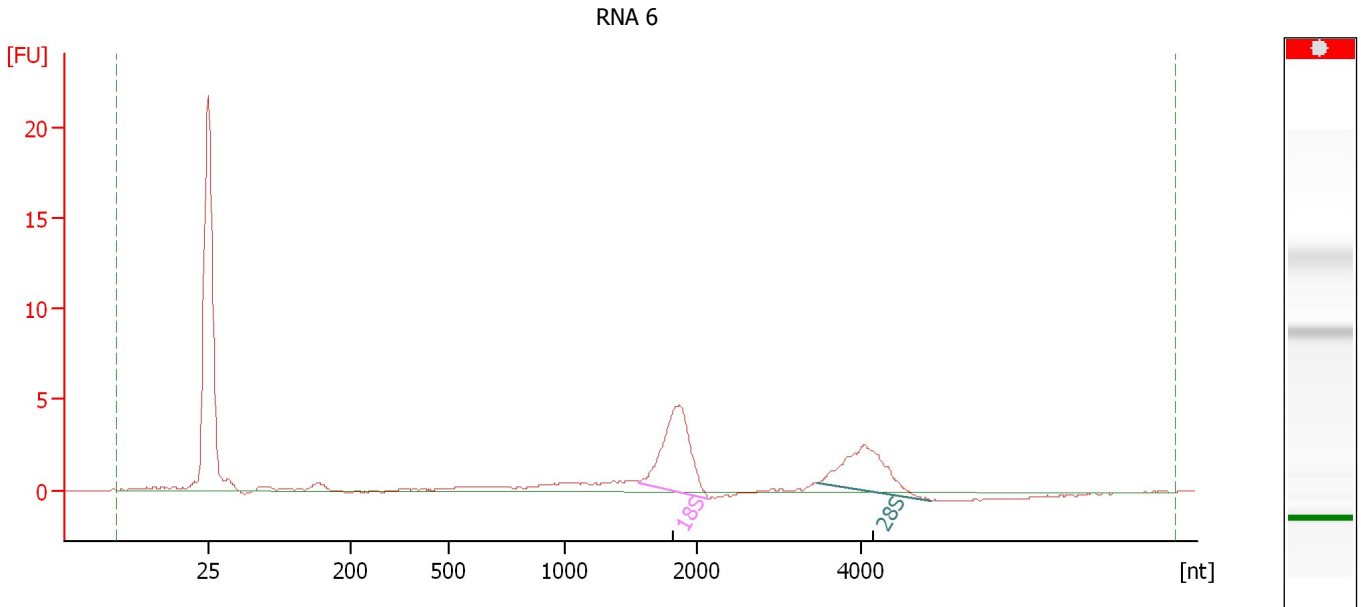
Overall Results for sample 5 : RNA 5

RNA Area:	16.8	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	84 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

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Electropherogram Summary Continued ...



Overall Results for sample 6 : RNA 6

RNA Area:	39.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	196 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN N/A

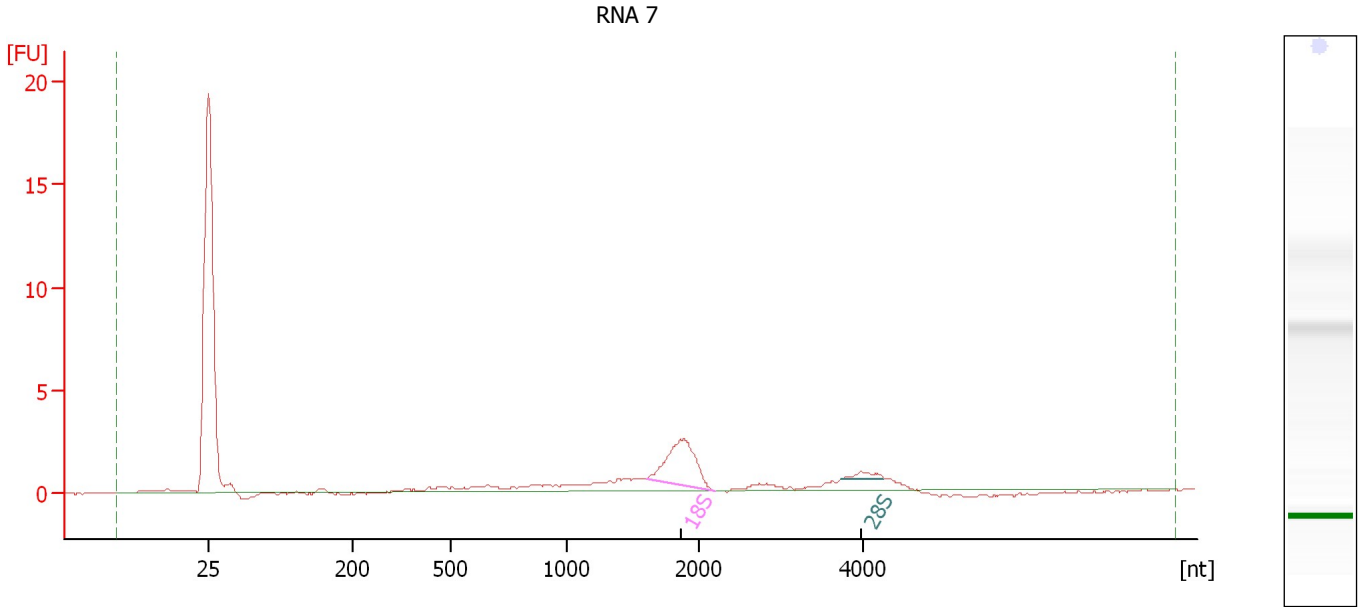
Fragment table for sample 6 : RNA 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	2,158	15.0	38.1
28S	3,486	4,866	10.3	26.0

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Electropherogram Summary Continued ...



Overall Results for sample 7 : RNA 7

RNA Area:	27.0	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	135 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 7.70

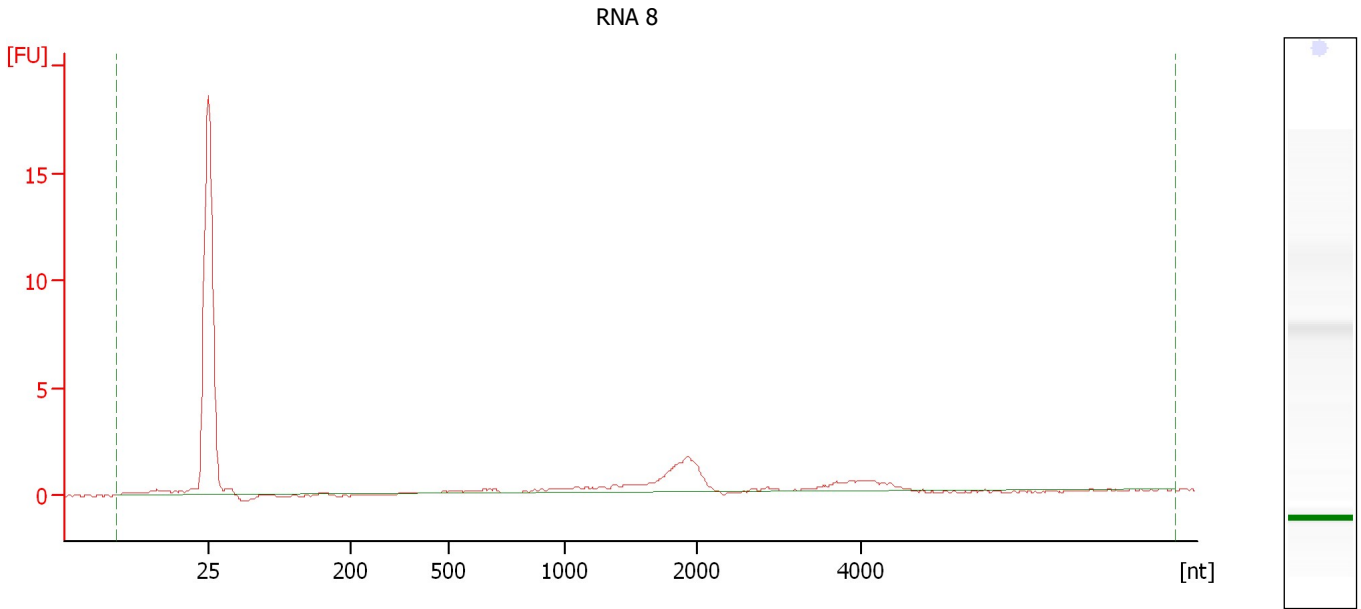
Fragment table for sample 7 : RNA 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	2,197	7.6	28.1
28S	3,743	4,250	0.7	2.5

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Electropherogram Summary Continued ...



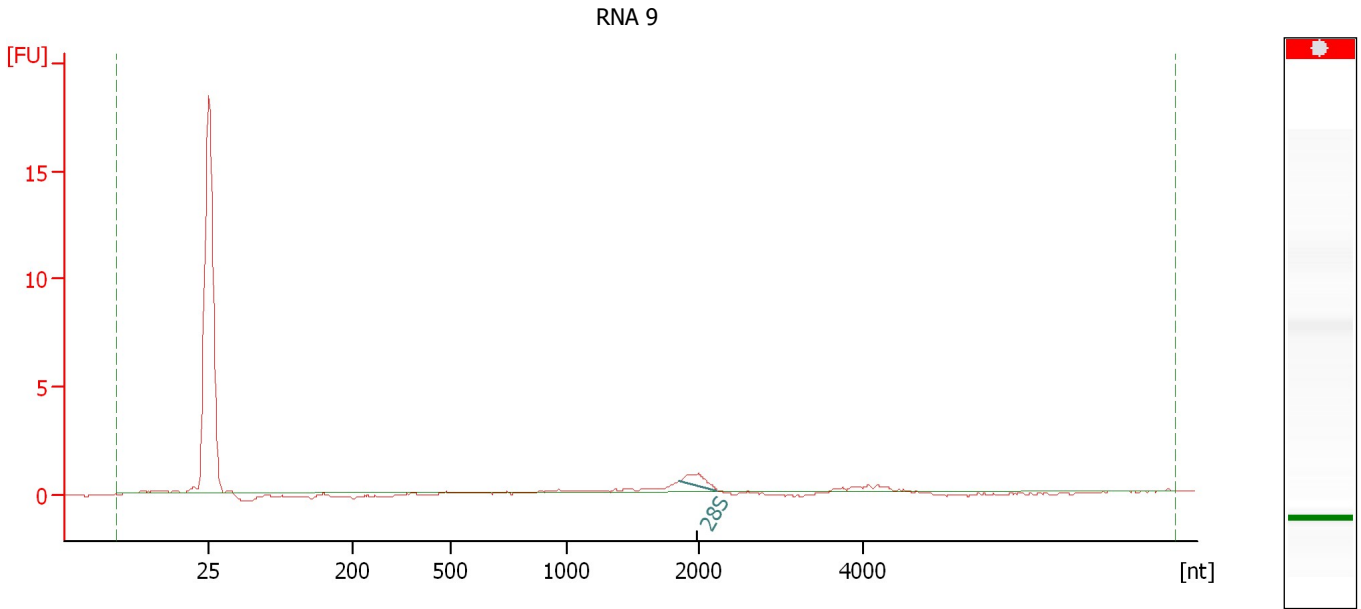
Overall Results for sample 8 : RNA 8

RNA Area:	14.4	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	72 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

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Electropherogram Summary Continued ...



Overall Results for sample 9 : RNA 9

RNA Area:	8.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	40 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

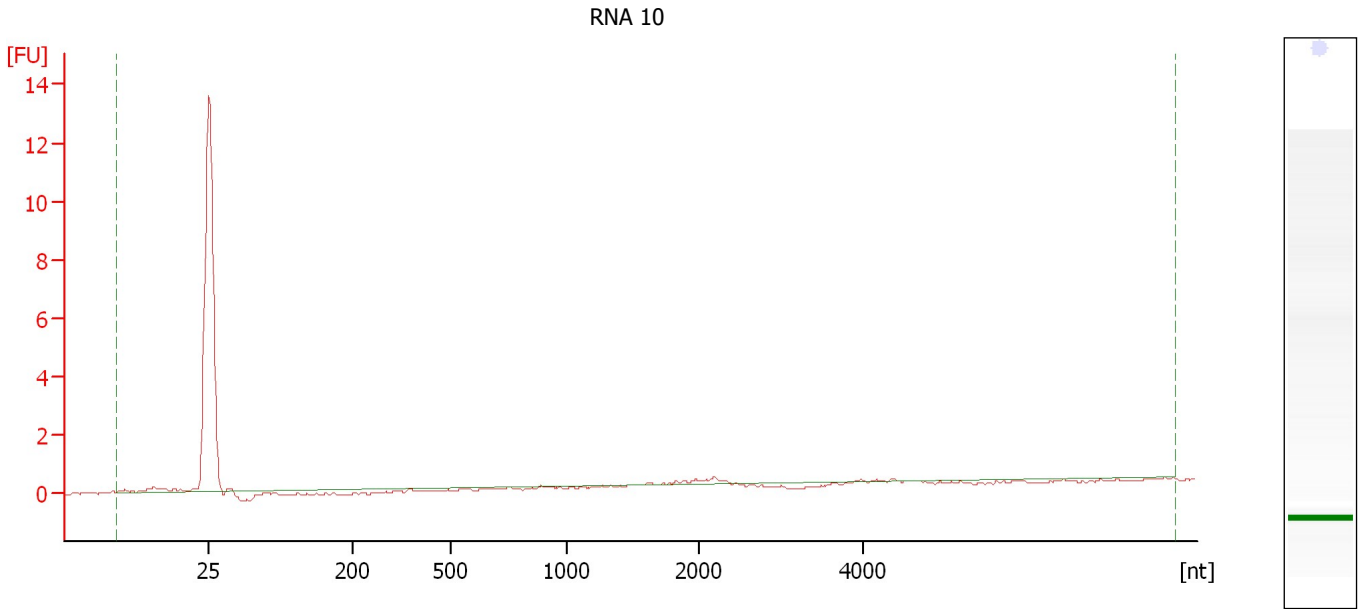
Fragment table for sample 9 : RNA 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,856	2,236	1.2	15.0

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Electropherogram Summary Continued ...



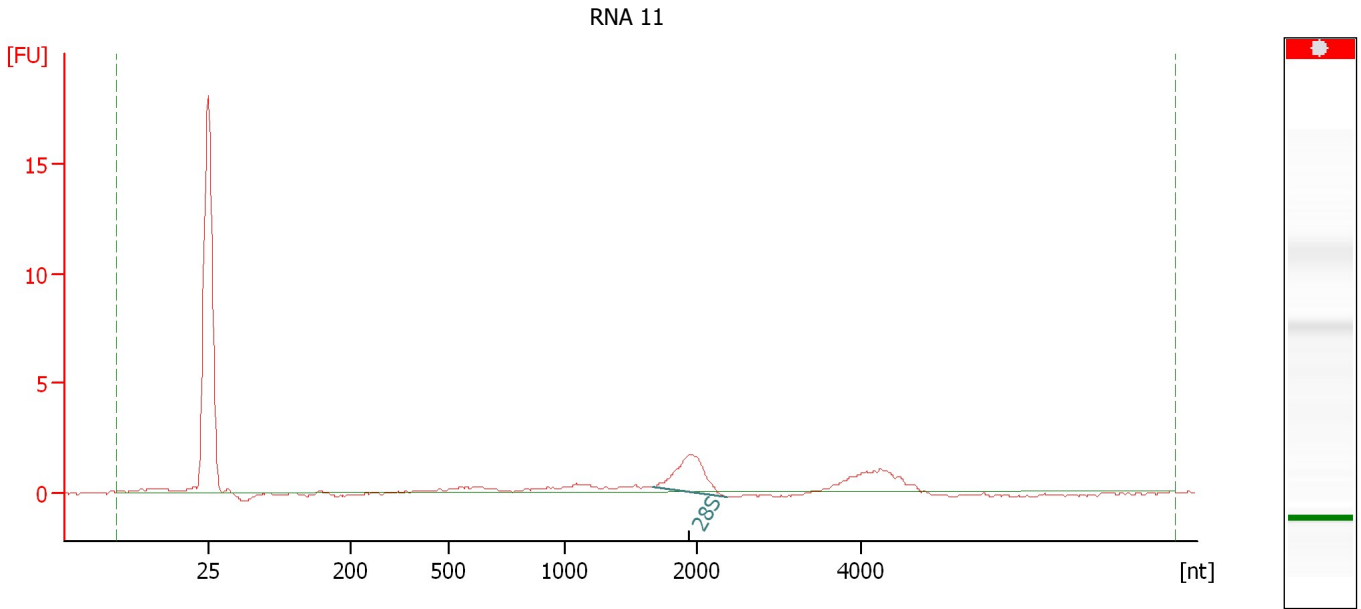
Overall Results for sample 10 : RNA 10

RNA Area:	2.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	13 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

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Electropherogram Summary Continued ...



Overall Results for sample 11 : RNA 11

RNA Area:	16.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	82 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Fragment table for sample 11 : RNA 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,677	2,380	5.6	34.4

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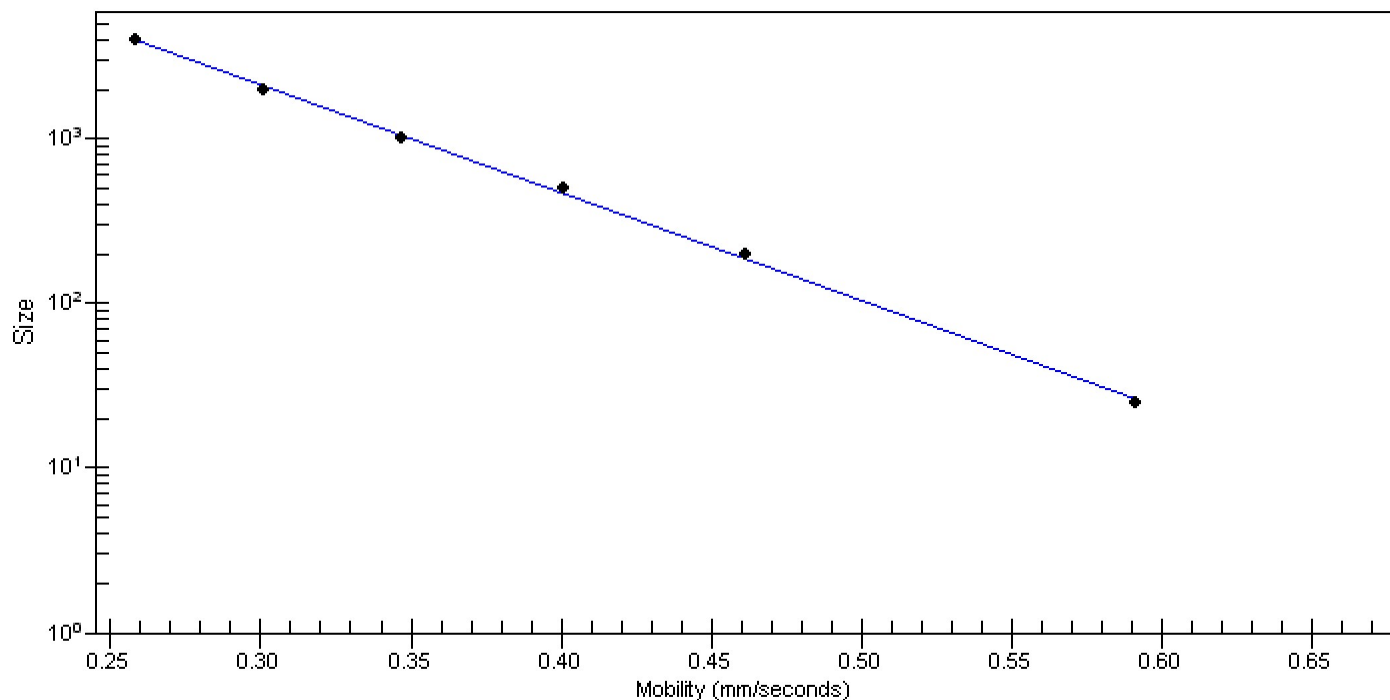
Gel Image

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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: 12)		Instrument	Run		7/8/2016 11:59:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-07-08\2016-07-08_003.xad)		Instrument	Run		7/8/2016 11:37:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/8/2016 11:37:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/8/2016 11:37:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/8/2016 11:37:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/8/2016 11:37:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/8/2016 11:37:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/8/2016 11:37:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1