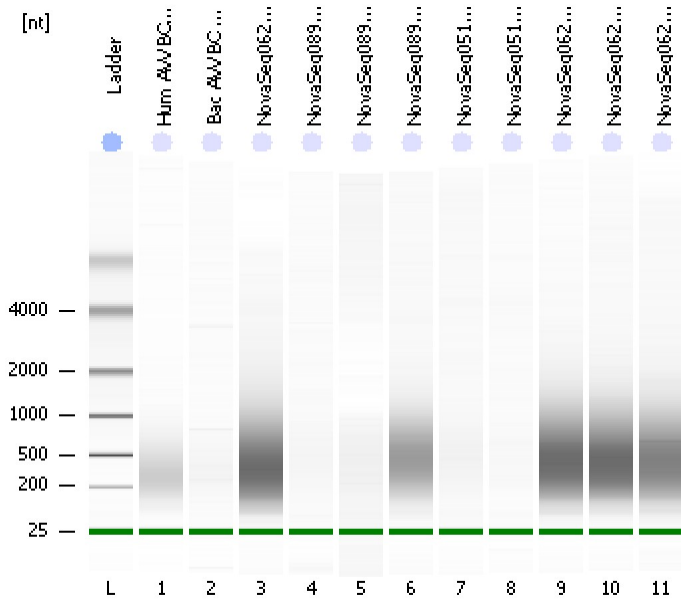


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

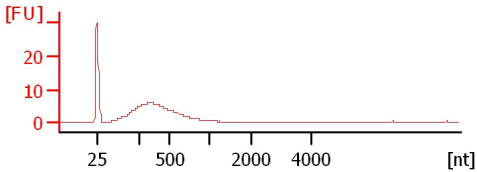
Assay Information:

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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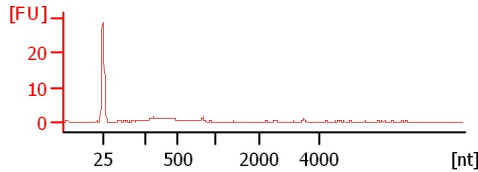
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

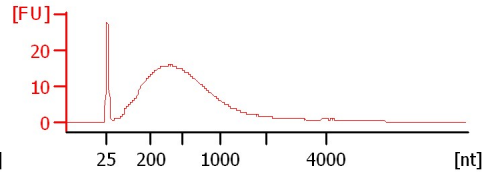
Hum AVV BC DNA
Bisulfite Converted DNA
RIN: 1.30



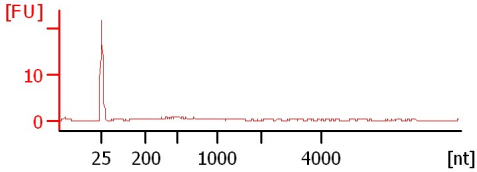
Bac AVV BC DNA
Bisulfite Converted DNA
RIN:1



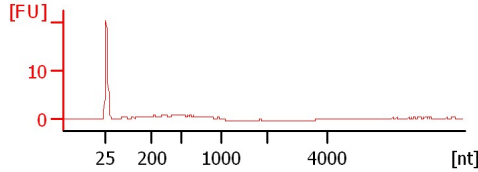
NovaSeq062-34 Test BC RNase no cleanup
Bisulfite Converted DNA
RIN: 2.20



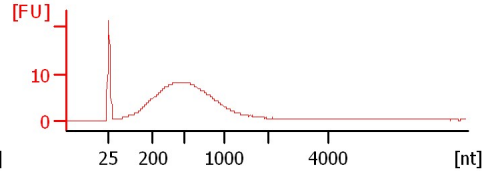
NovaSeq089-1 BC DNA
Bisulfite Converted DNA
RIN:1



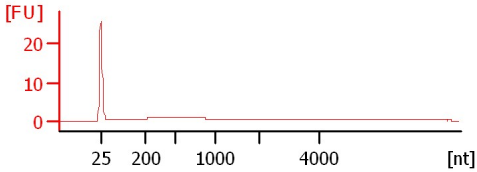
NovaSeq089-3 BC DNA
Bisulfite Converted DNA
RIN: 1.10



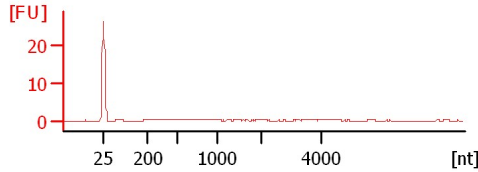
NovaSeq089-5 BC DNA
Bisulfite Converted DNA
RIN: 2.20



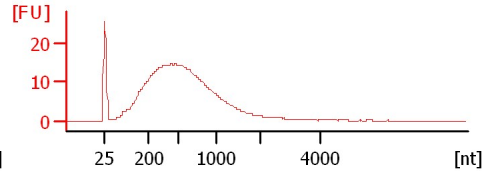
NovaSeq051-53 BC DNA
Bisulfite Converted DNA
RIN:1



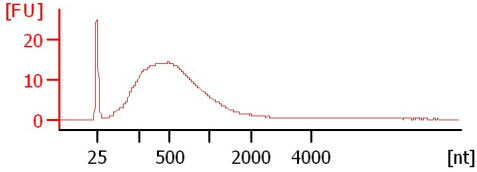
NovaSeq051-82 BC DNA
Bisulfite Converted DNA
RIN:1



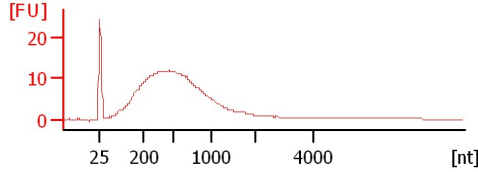
NovaSeq062-10 BC DNA
Bisulfite Converted DNA
RIN: 2.10



NovaSeq062-46 BC DNA
Bisulfite Converted DNA
RIN: 2.10



NovaSeq062-89 BC DNA
Bisulfite Converted DNA
RIN: 2.20



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Hum AVV BC DNA	Bisulfite Converted DNA	✓	RIN: 1.30	
Bac AVV BC DNA	Bisulfite Converted DNA	✓	RIN:1	
NovaSeq062-34 Test BC RNase no cleanup	Bisulfite Converted DNA	✓	RIN: 2.20	
NovaSeq089-1 BC DNA	Bisulfite Converted DNA	✓	RIN:1	
NovaSeq089-3 BC DNA	Bisulfite Converted DNA	✓	RIN: 1.10	
NovaSeq089-5 BC DNA	Bisulfite Converted DNA	✓	RIN: 2.20	
NovaSeq051-53 BC DNA	Bisulfite Converted DNA	✓	RIN:1	
NovaSeq051-82 BC DNA	Bisulfite Converted DNA	✓	RIN:1	
NovaSeq062-10 BC DNA	Bisulfite Converted DNA	✓	RIN: 2.10	
NovaSeq062-46 BC DNA	Bisulfite Converted DNA	✓	RIN: 2.10	
NovaSeq062-89 BC DNA	Bisulfite Converted DNA	✓	RIN: 2.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

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

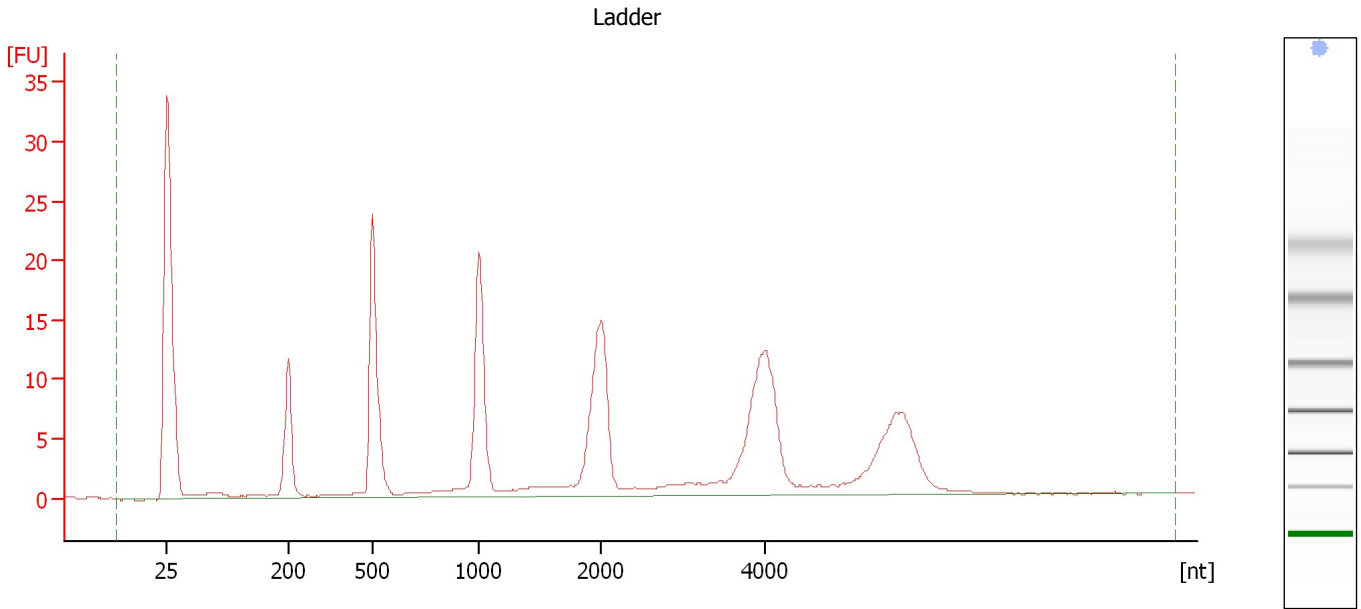
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electropherogram Summary



Overall Results for Ladder

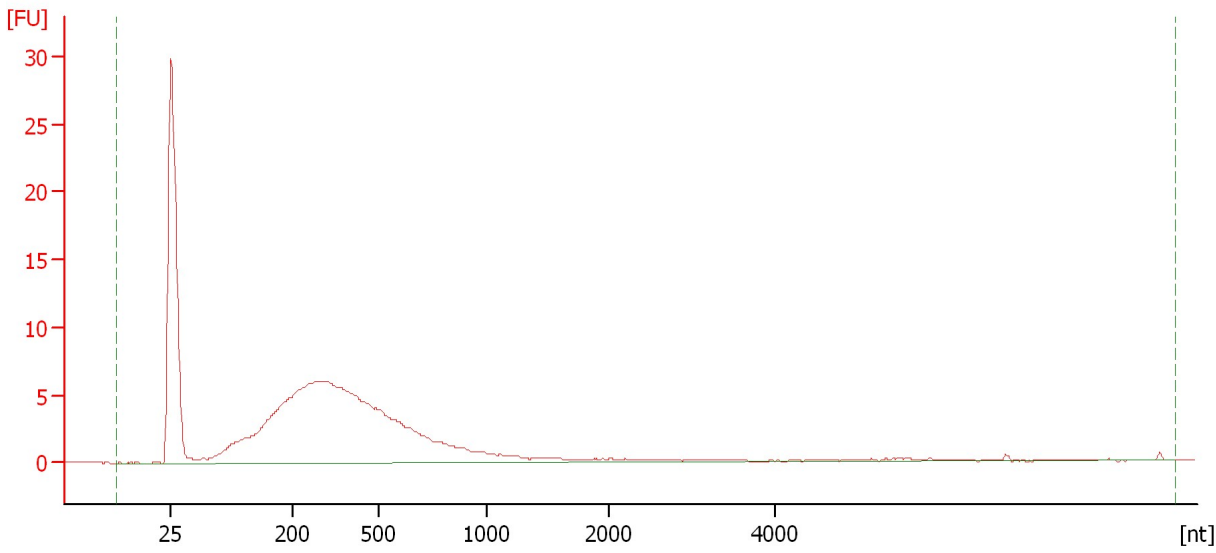
RNA Area:	203.1	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electropherogram Summary Continued ...

Hum AVV BC DNA [Bisulfite Converted DNA]



Overall Results for sample 1 : Hum AVV BC DNA

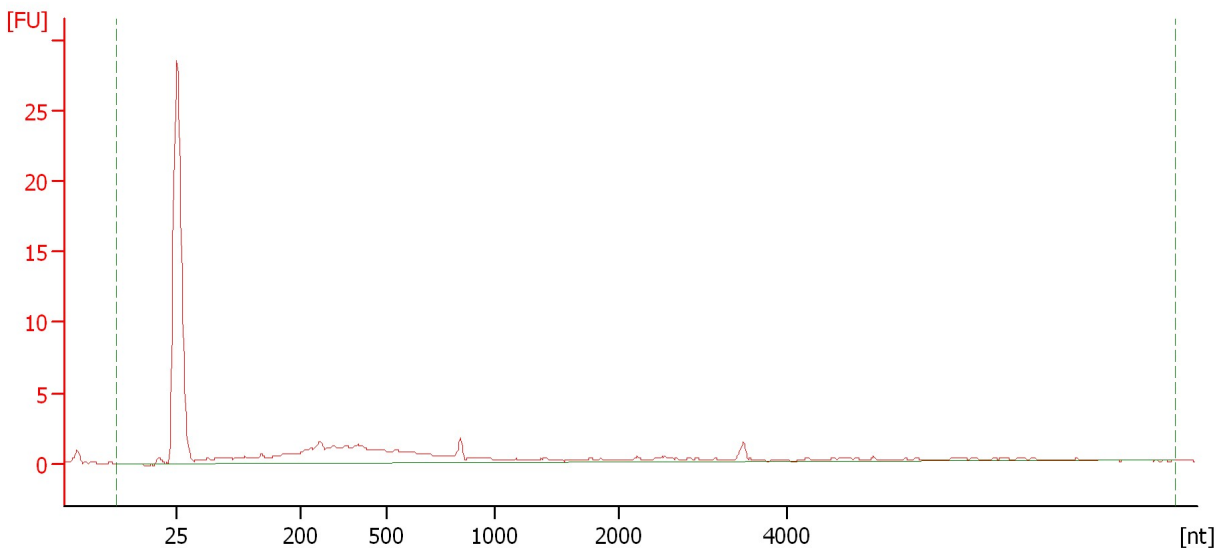
RNA Area:	148.7	RNA Integrity Number (RIN):	1.3 (B.02.08)
RNA Concentration:	732 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.30

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electropherogram Summary Continued ...

Bac AVV BC DNA [Bisulfite Converted DNA]



Overall Results for sample 2 : Bac AVV BC DNA

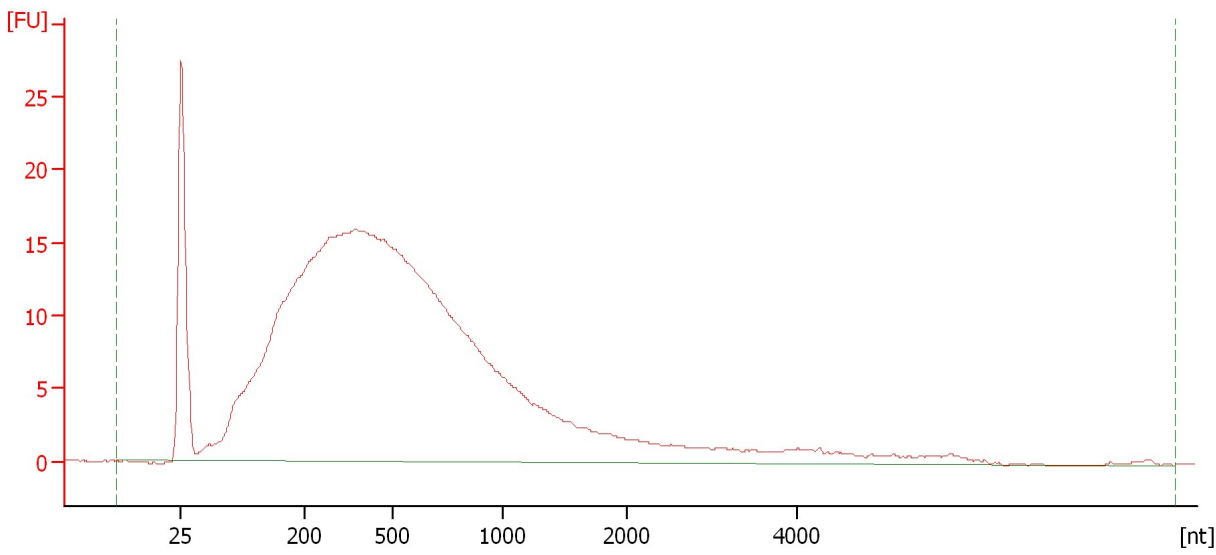
RNA Area:	39.8	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	196 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electropherogram Summary Continued ...

NovaSeq062-34 Test BC RNase no cleanup [Bisulfite Converted DNA]



Overall Results for sample 3 : NovaSeq062-34 Test BC RNase no cleanup

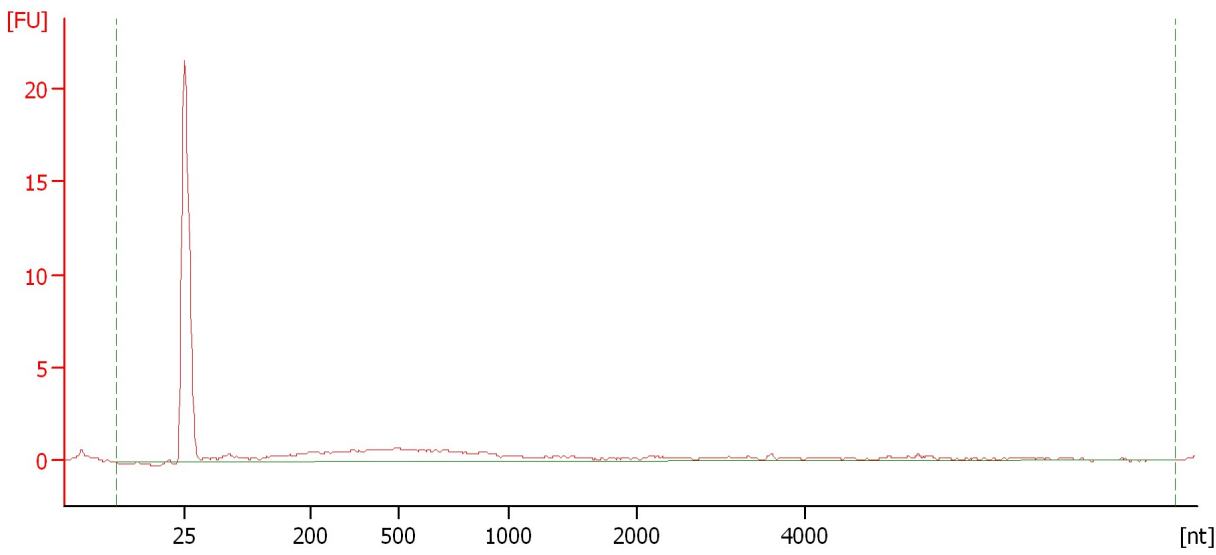
RNA Area:	549.3	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	2,705 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electropherogram Summary Continued ...

NovaSeq089-1 BC DNA [Bisulfite Converted DNA]



Overall Results for sample 4 : NovaSeq089-1 BC DNA

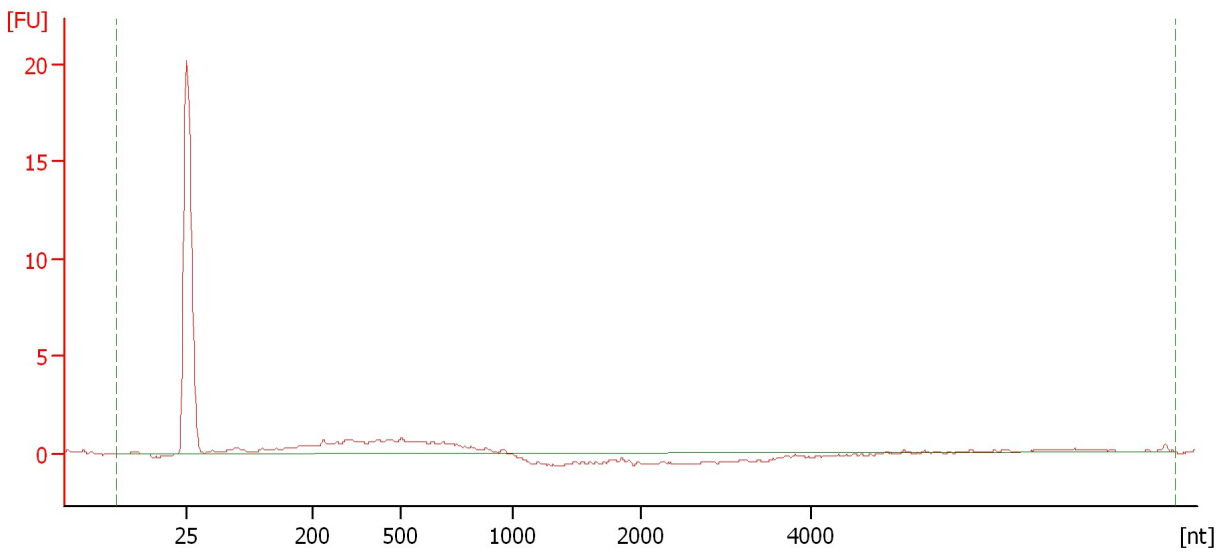
RNA Area:	28.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	142 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electropherogram Summary Continued ...

NovaSeq089-3 BC DNA [Bisulfite Converted DNA]



Overall Results for sample 5 : NovaSeq089-3 BC DNA

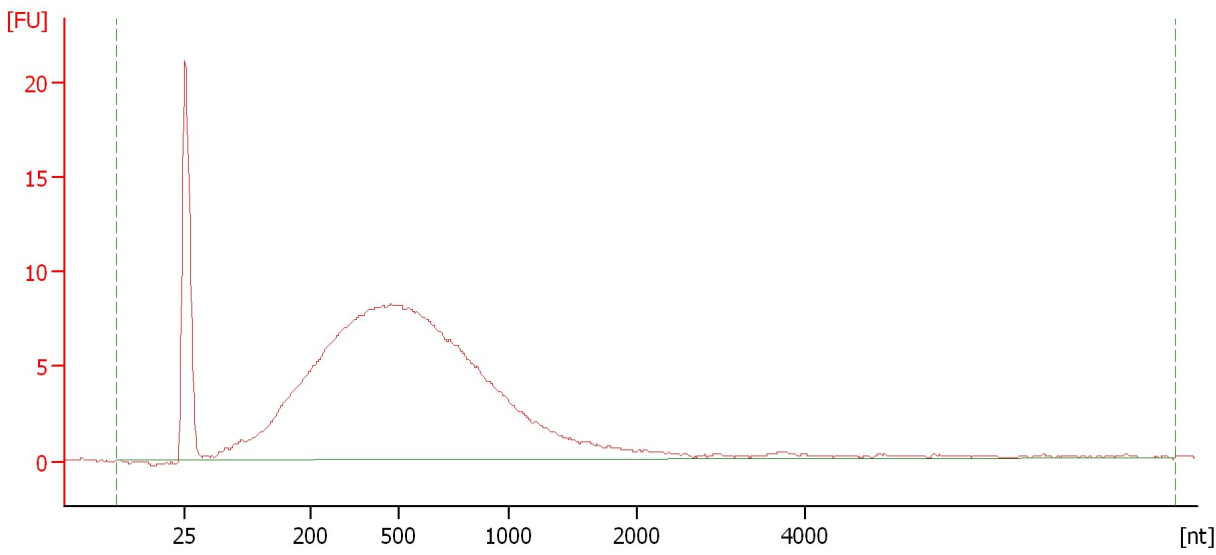
RNA Area:	16.5	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	81 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electropherogram Summary Continued ...

NovaSeq089-5 BC DNA [Bisulfite Converted DNA]



Overall Results for sample 6 : NovaSeq089-5 BC DNA

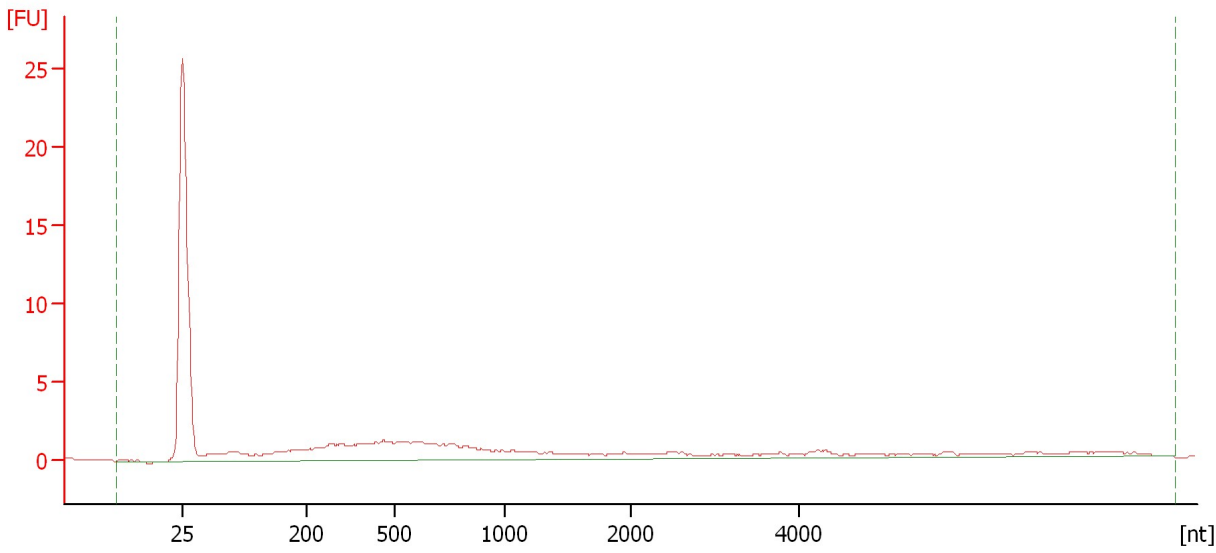
RNA Area:	244.4	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	1,204 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electropherogram Summary Continued ...

NovaSeq051-53 BC DNA [Bisulfite Converted DNA]



Overall Results for sample 7 : NovaSeq051-53 BC DNA

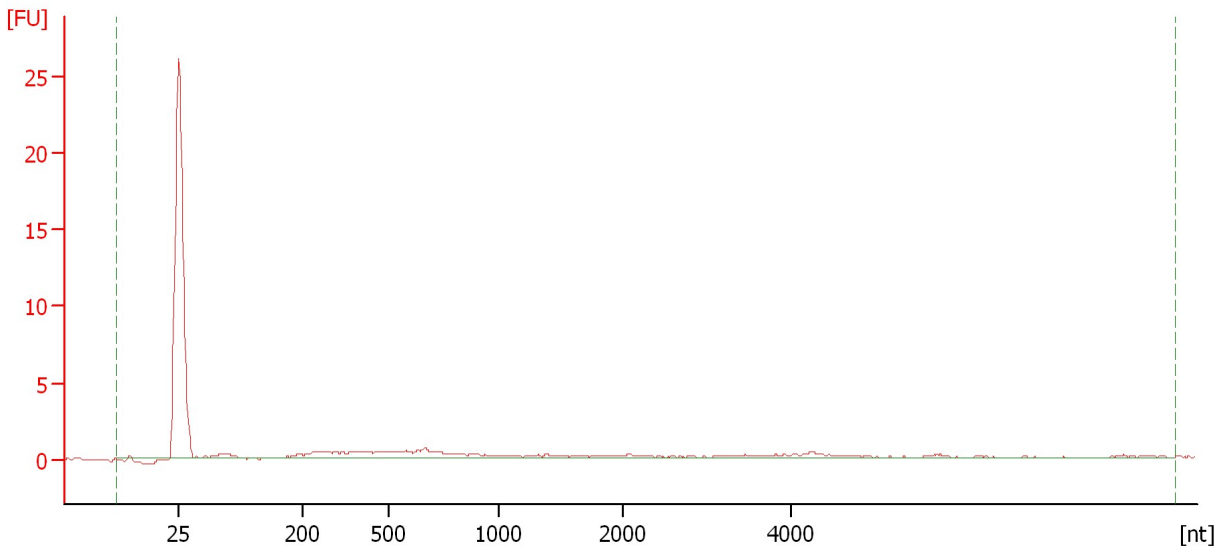
RNA Area:	53.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	265 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electropherogram Summary Continued ...

NovaSeq051-82 BC DNA [Bisulfite Converted DNA]



Overall Results for sample 8 : NovaSeq051-82 BC DNA

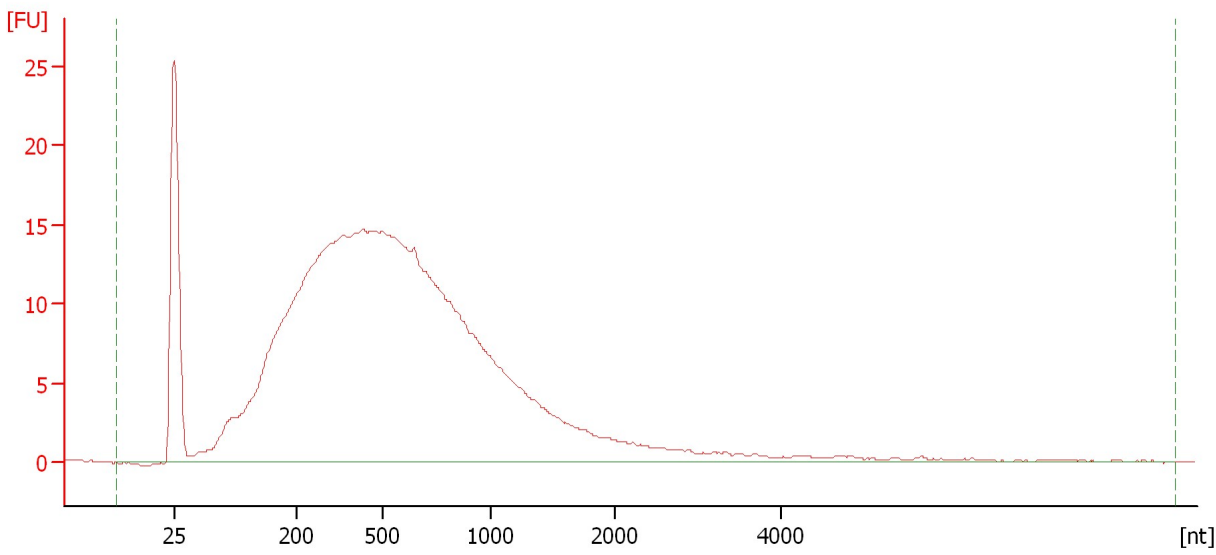
RNA Area:	17.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	88 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electropherogram Summary Continued ...

NovaSeq062-10 BC DNA [Bisulfite Converted DNA]



Overall Results for sample 9 : NovaSeq062-10 BC DNA

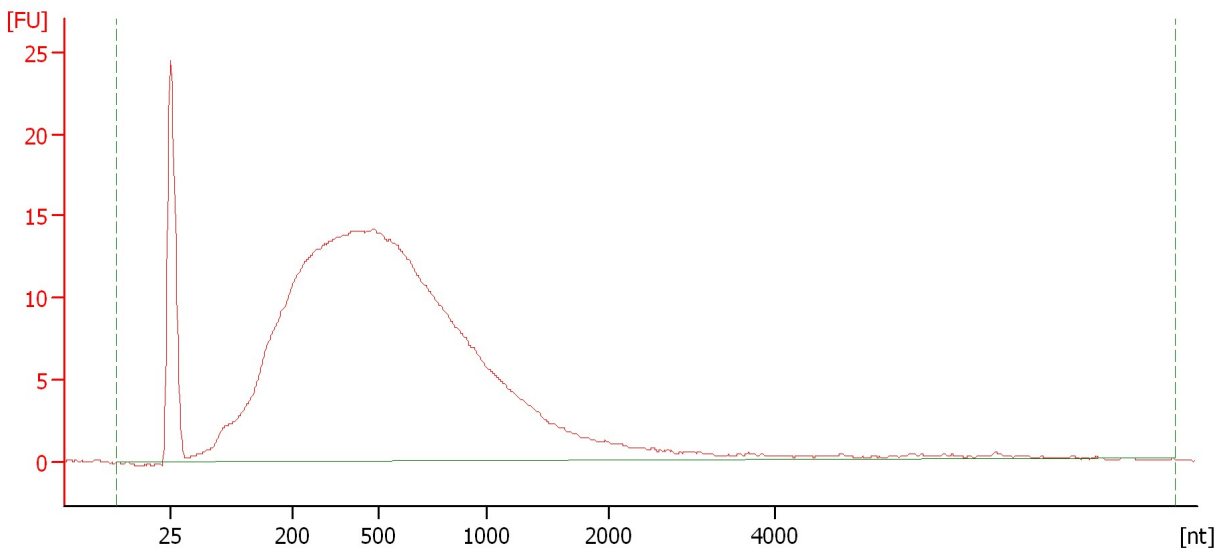
RNA Area:	494.1	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	2,433 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electropherogram Summary Continued ...

NovaSeq062-46 BC DNA [Bisulfite Converted DNA]



Overall Results for sample 10 : NovaSeq062-46 BC DNA

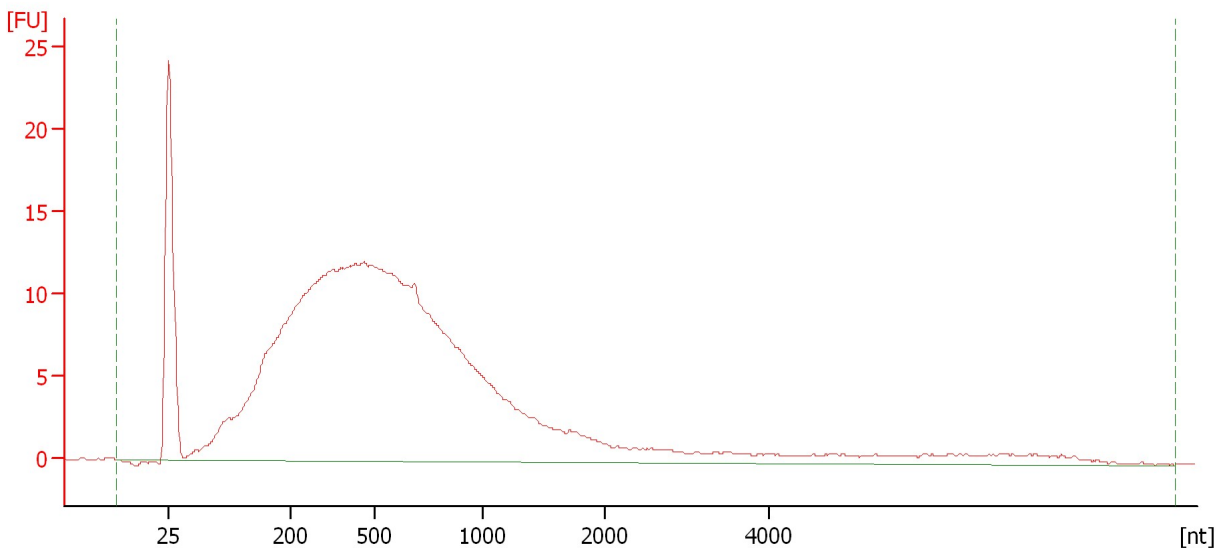
RNA Area:	462.7	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	2,278 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Electropherogram Summary Continued ...

NovaSeq062-89 BC DNA [Bisulfite Converted DNA]



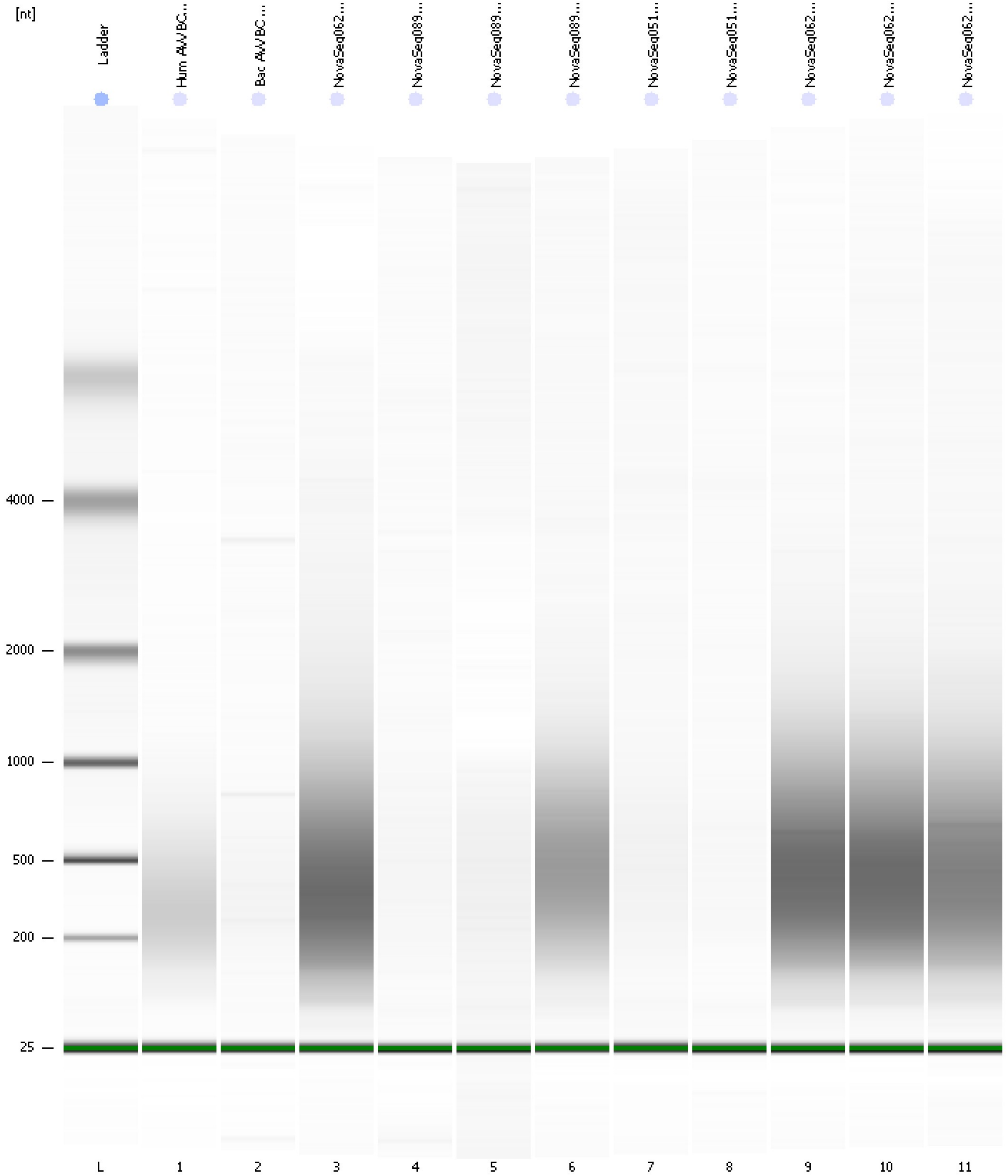
Overall Results for sample 11 : NovaSeq062-89 BC DNA

RNA Area:	412.7	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	2,032 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Gel Image

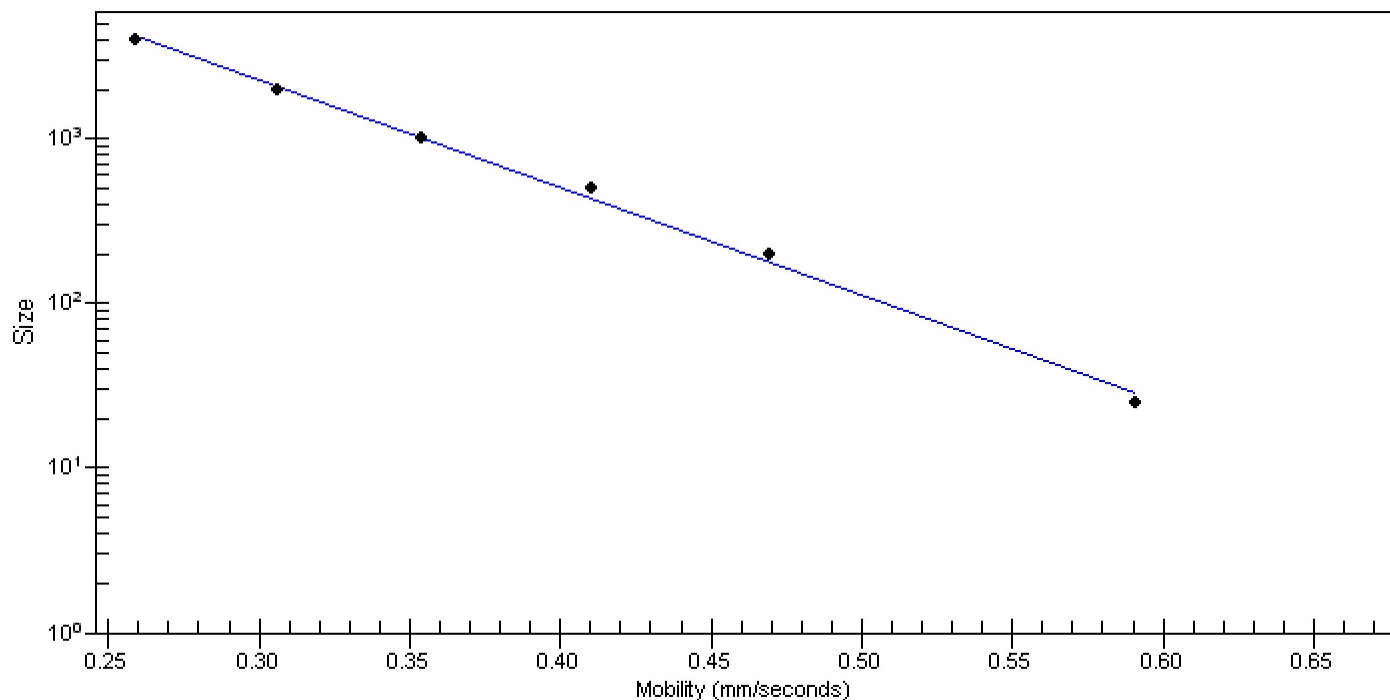


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
Modified: 9/6/2019 5:11:56 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad

Created: 9/6/2019 4:47:48 PM
 Modified: 9/6/2019 5:11:56 PM

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		9/6/2019 5:10:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-09-06\2019-09-06_002.xad)		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/6/2019 4:47:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1