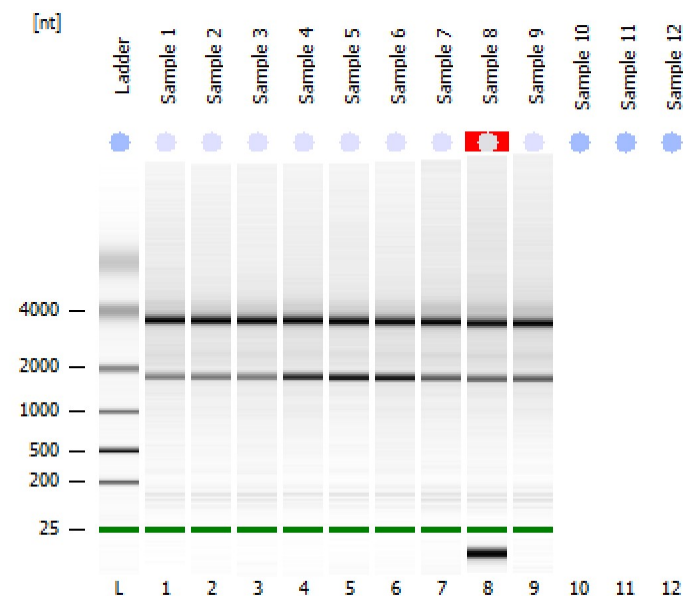


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Electrophoresis File Run SummaryInstrument Information:

Instrument Name: DE72903171
Serial#: DE72903171

Firmware: C.01.069
Type: G2939A

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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:

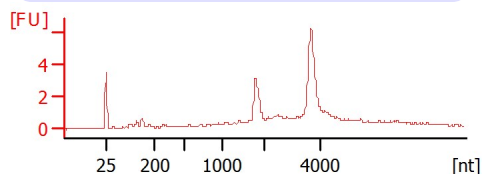
Chip Lot #:

Reagent Kit Lot #:

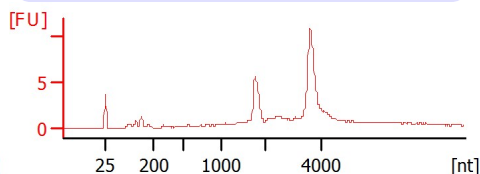
Chip Comments:

Sample 1

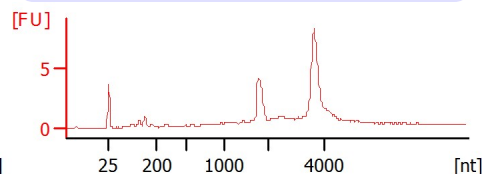
RIN: 8.70

**Sample 2**

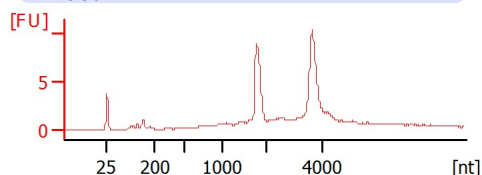
RIN: 9

**Sample 3**

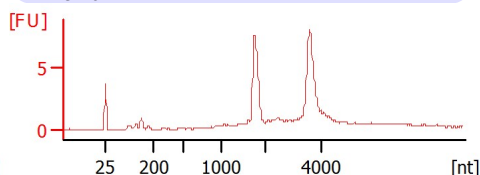
RIN: 8.90

**Sample 4**

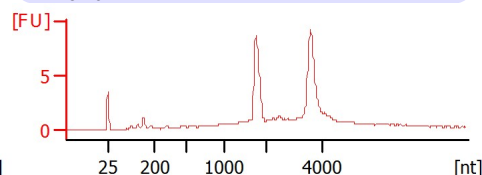
RIN: 8.90

**Sample 5**

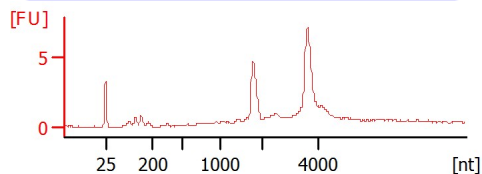
RIN: 9.20

**Sample 6**

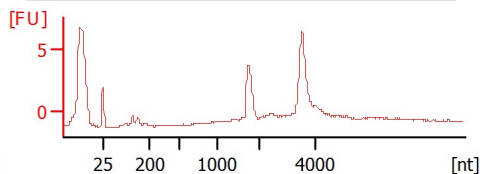
RIN: 8.70

**Sample 7**

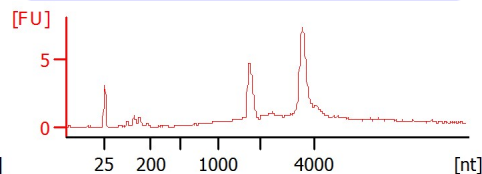
RIN: 9.30

**Sample 8**

RIN N/A

**Sample 9**

RIN: 9.10



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 8.70	
Sample 2		✓	RIN:9	
Sample 3		✓	RIN: 8.90	
Sample 4		✓	RIN: 8.90	
Sample 5		✓	RIN: 9.20	
Sample 6		✓	RIN: 8.70	
Sample 7		✓	RIN: 9.30	
Sample 8		✓	RIN N/A	
Sample 9		✓	RIN: 9.10	
Sample 10				
Sample 11				
Sample 12				
Ladder		✓	All Other Samples	

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 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] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

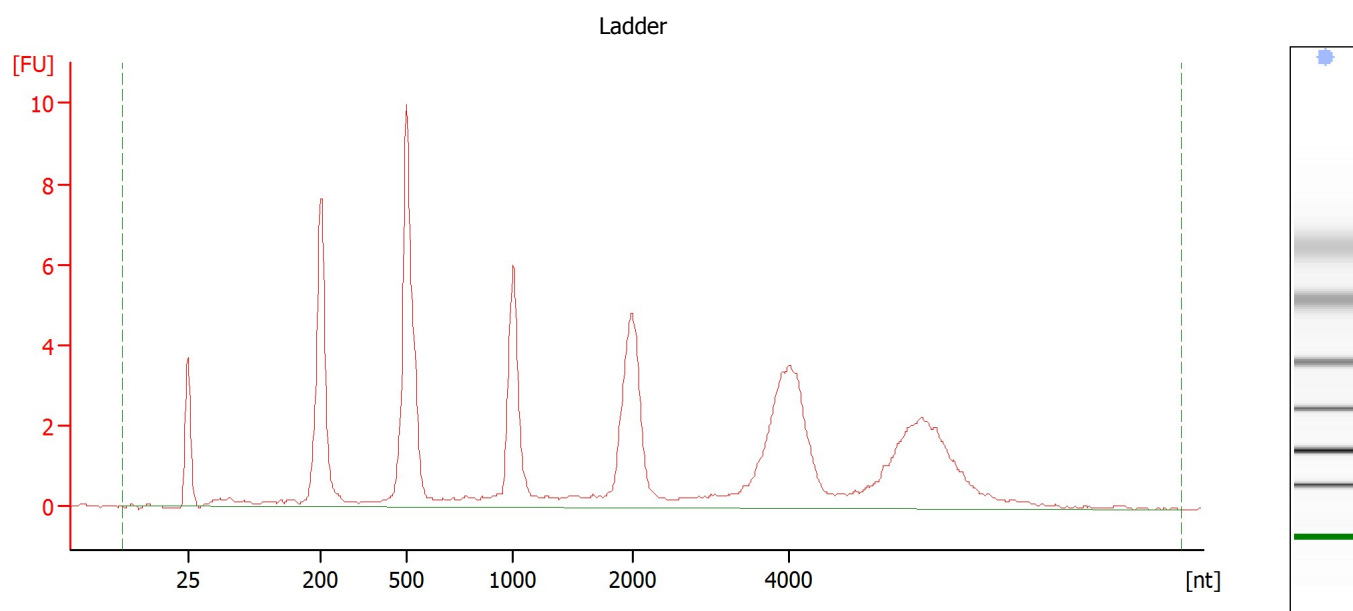
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Electropherogram Summary



Overall Results for Ladder

RNA Area: 89.6

Result Flagging Color:



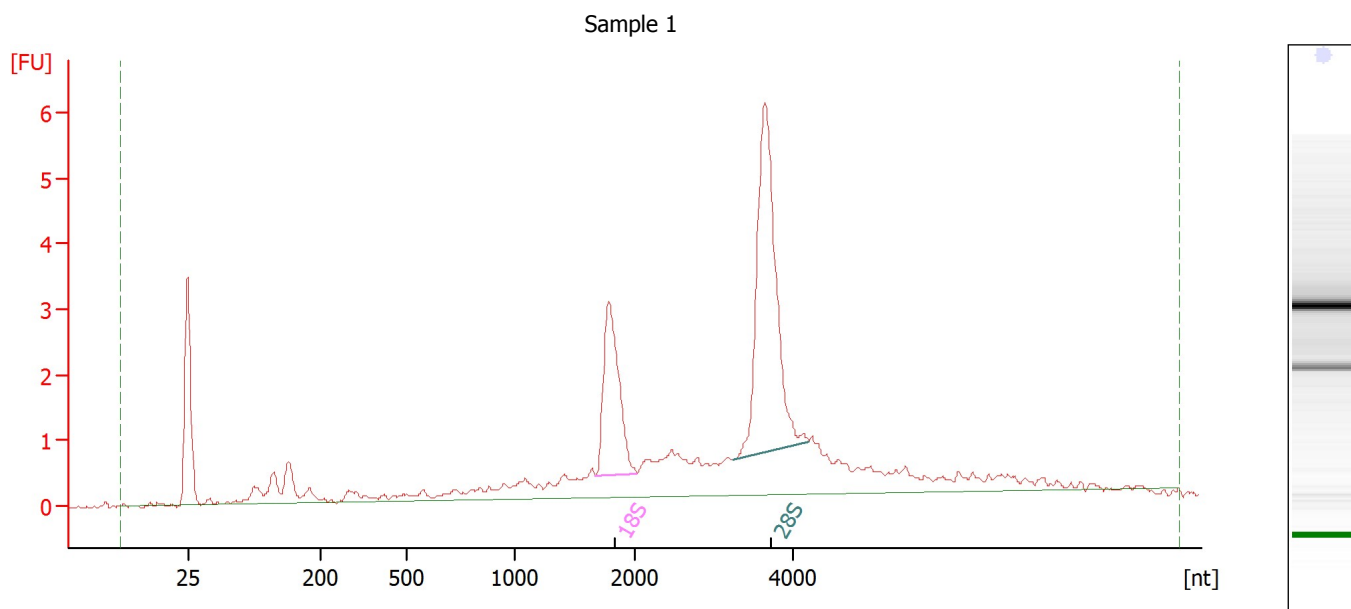
RNA Concentration: 150 ng/μl

Result Flagging Label:

All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 1 : Sample 1**

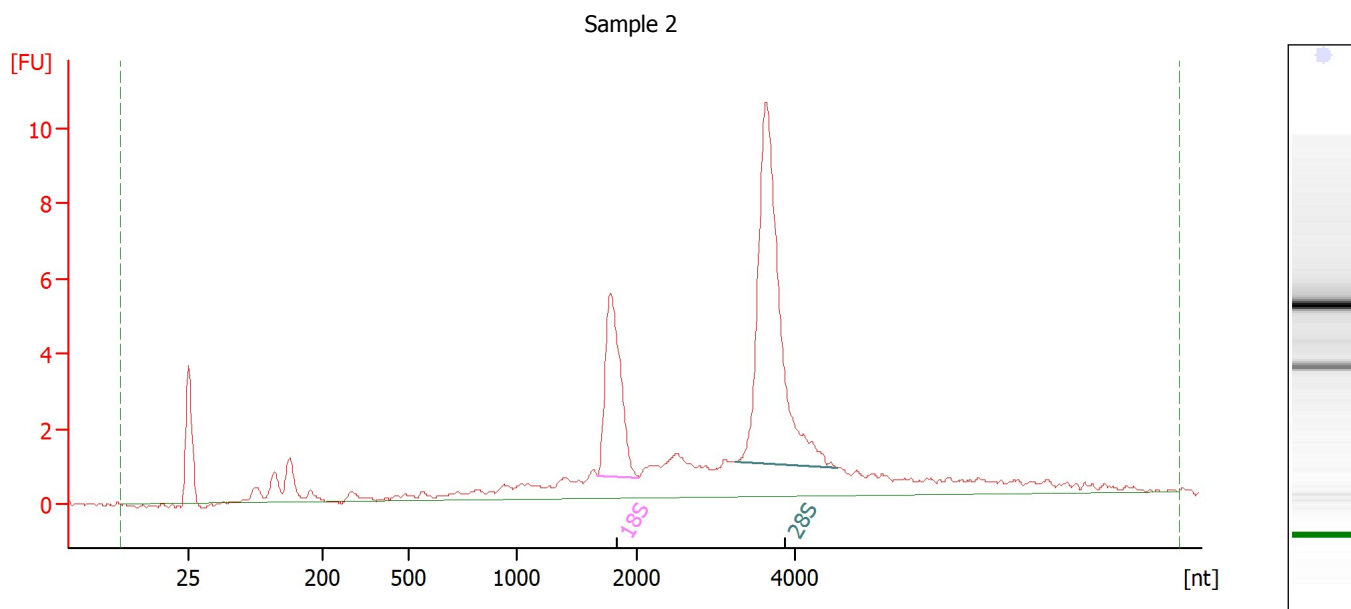
RNA Area:	42.9	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	72 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 8.70

Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,672	2,029	5.1	11.9
28S	3,248	4,209	10.9	25.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 2 : Sample 2**

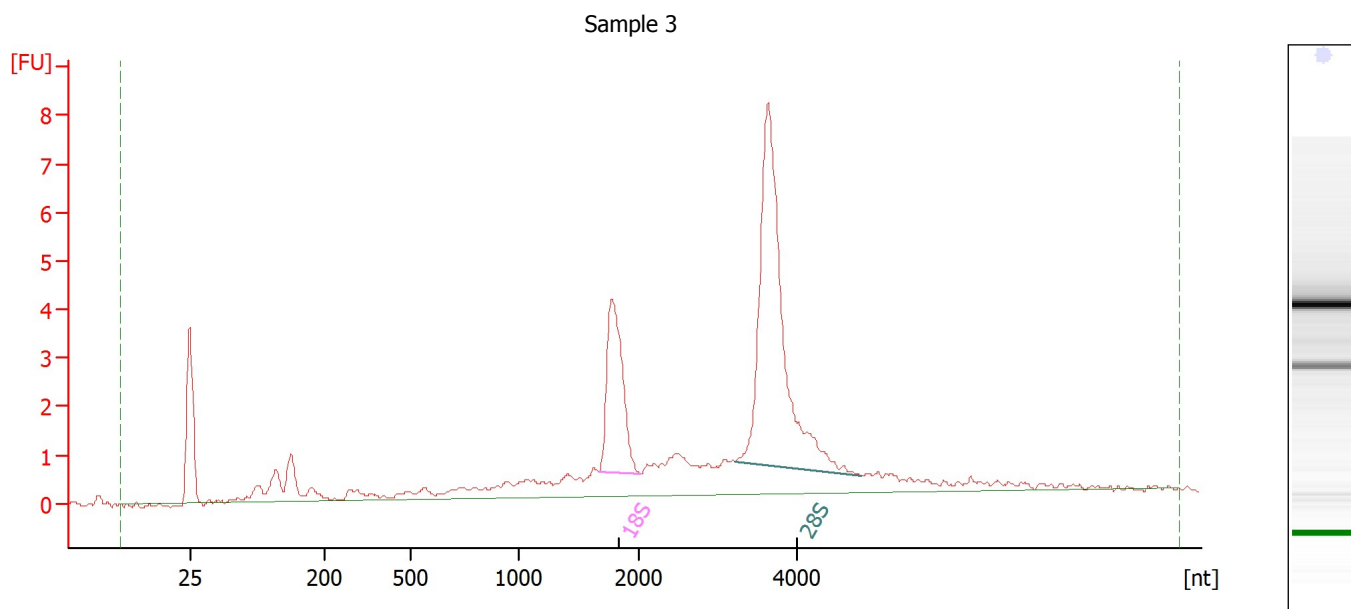
RNA Area:	70.5	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	118 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	2.4	Result Flagging Label:	RIN:9

Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,673	2,030	9.4	13.4
28S	3,246	4,530	22.2	31.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 3 : Sample 3**

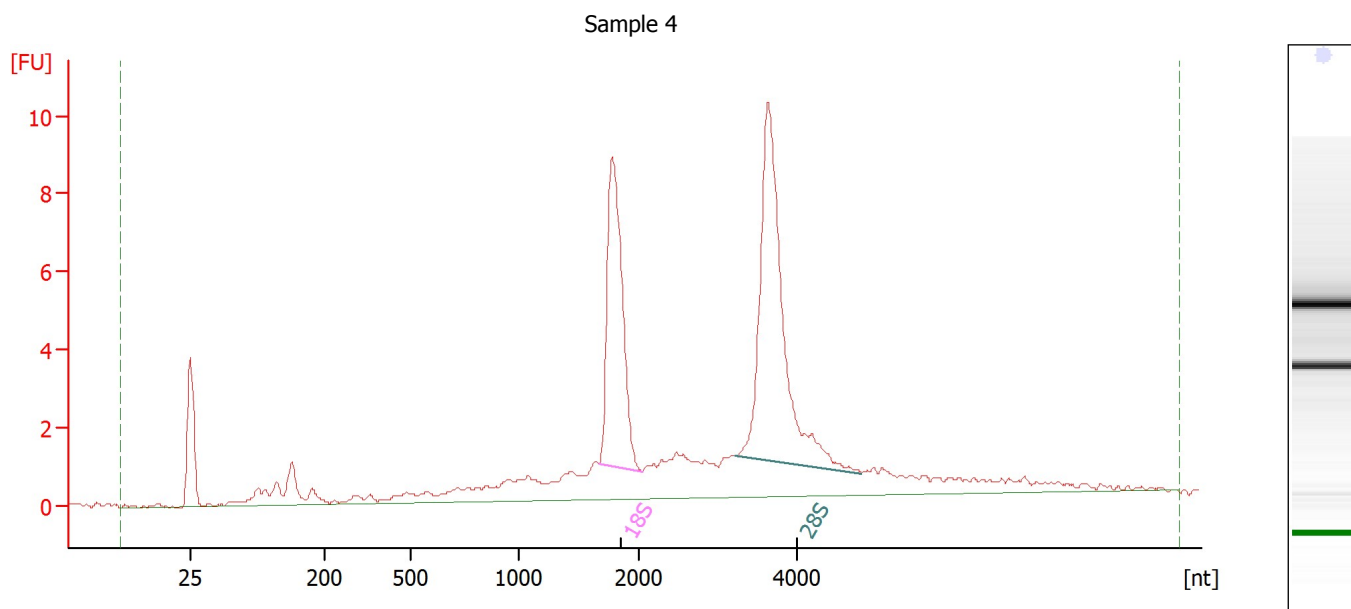
RNA Area:	56.2	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	94 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	2.6	Result Flagging Label:	RIN: 8.90

Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,675	2,017	7.1	12.7
28S	3,217	4,809	18.2	32.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 4 : Sample 4**

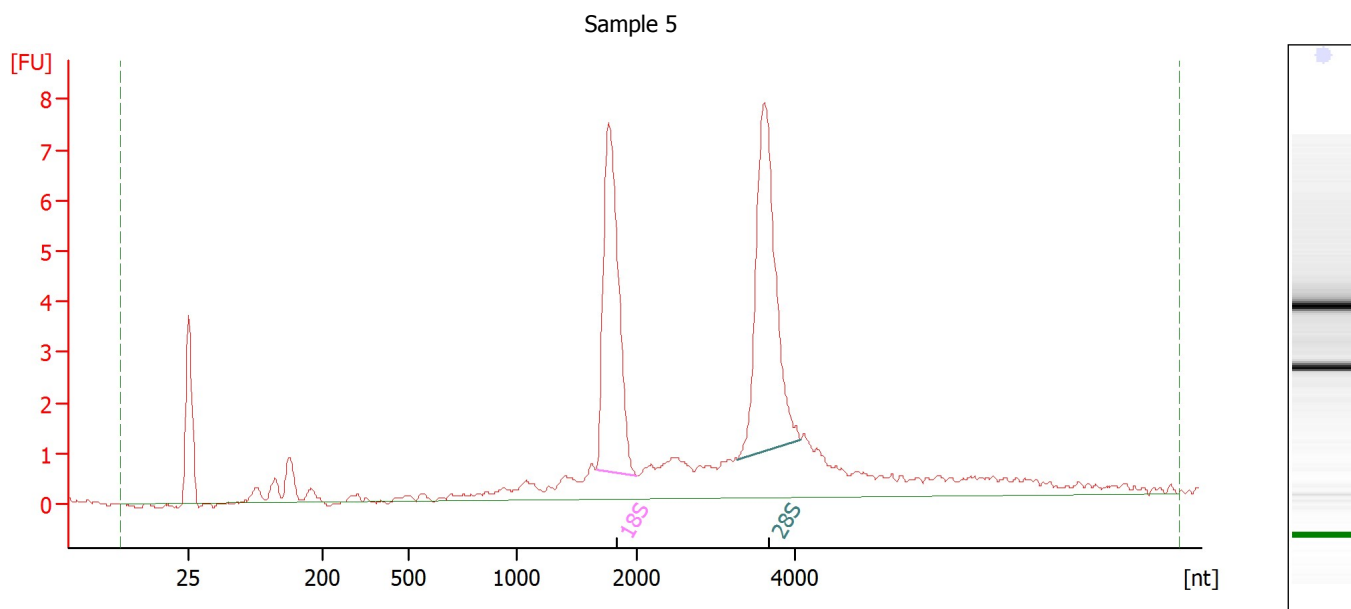
RNA Area:	86.2	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	144 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	1.5	Result Flagging Label:	RIN: 8.90

Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,675	2,044	15.4	17.8
28S	3,217	4,809	22.3	25.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 5 : Sample 5**

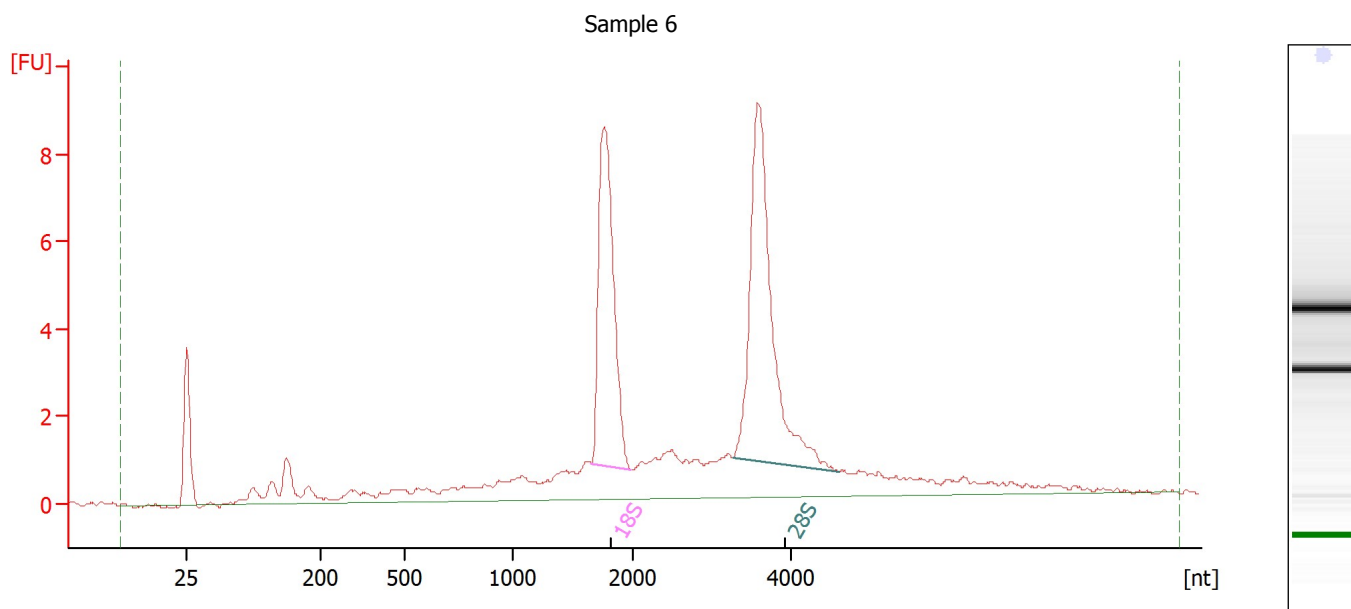
RNA Area:	60.0	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	100 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 9.20

Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,665	2,003	13.3	22.1
28S	3,273	4,084	14.5	24.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 6 : Sample 6**

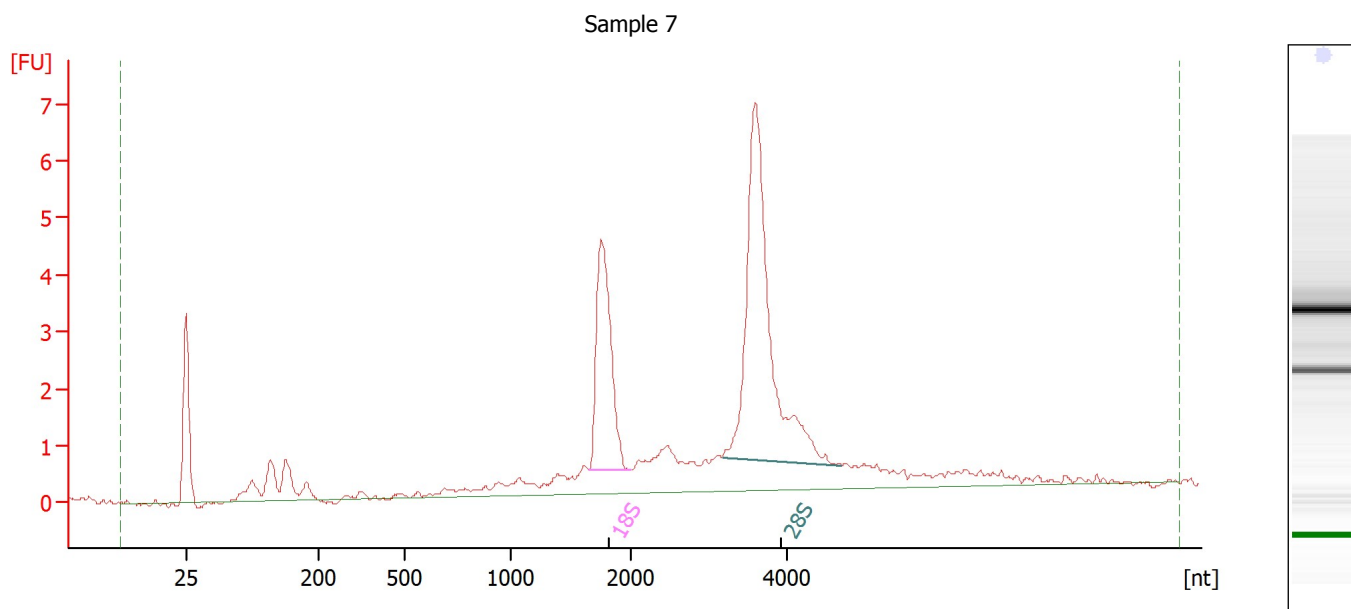
RNA Area:	77.4	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	129 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	1.3	Result Flagging Label:	RIN: 8.70

Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	1,991	15.0	19.3
28S	3,263	4,621	19.5	25.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 7 : Sample 7**

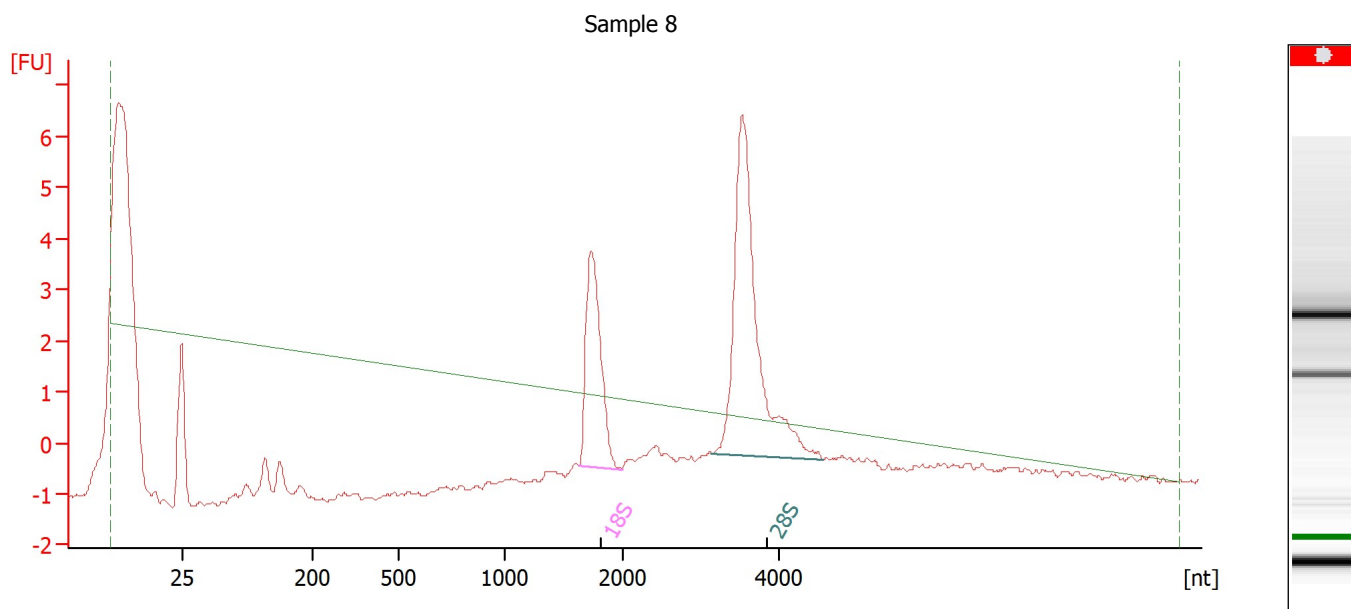
RNA Area:	49.1	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	82 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.30

Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	2,000	7.6	15.4
28S	3,170	4,680	15.6	31.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Electropherogram Summary Continued ...**Setpoint Deviations for sample 8 : Sample 8**

Height Threshold [FU] : 0.1 Width Threshold [s] : 0.1
Area Threshold : 0.1

Overall Results for sample 8 : Sample 8

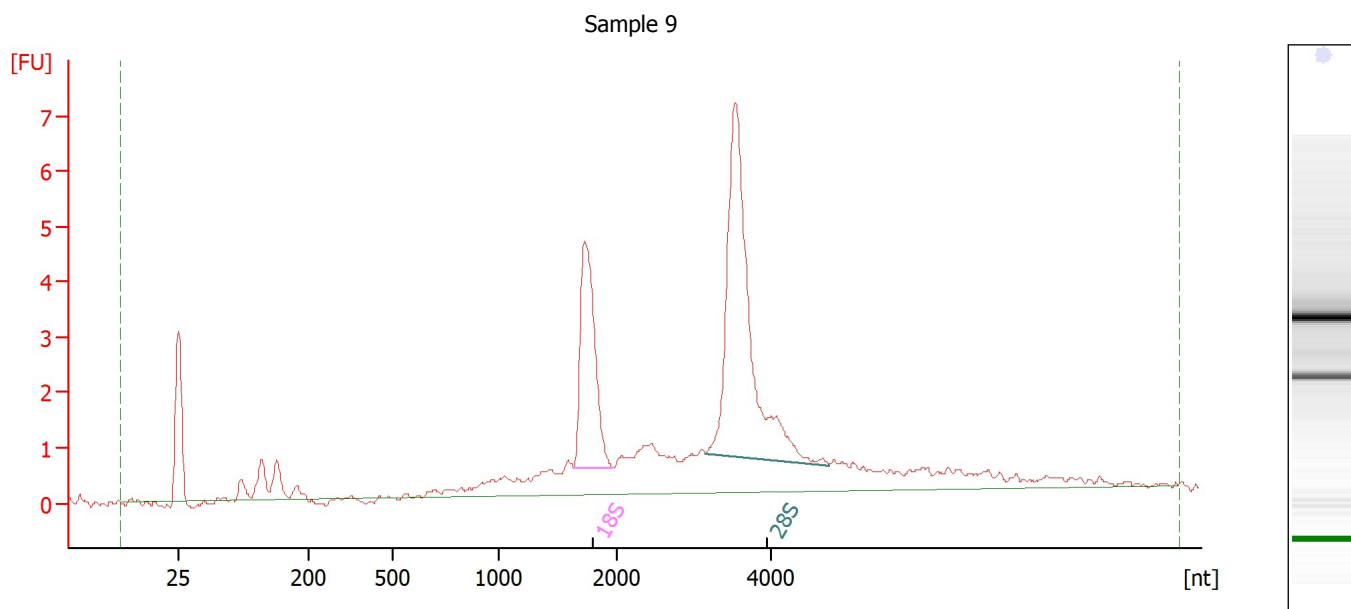
RNA Area: 33.2 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 56 ng/μl Result Flagging Color:
rRNA Ratio [28S / 18S]: 2.0 Result Flagging Label: RIN N/A

Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,997	8.1	24.3
28S	3,148	4,576	16.5	49.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 9 : Sample 9**

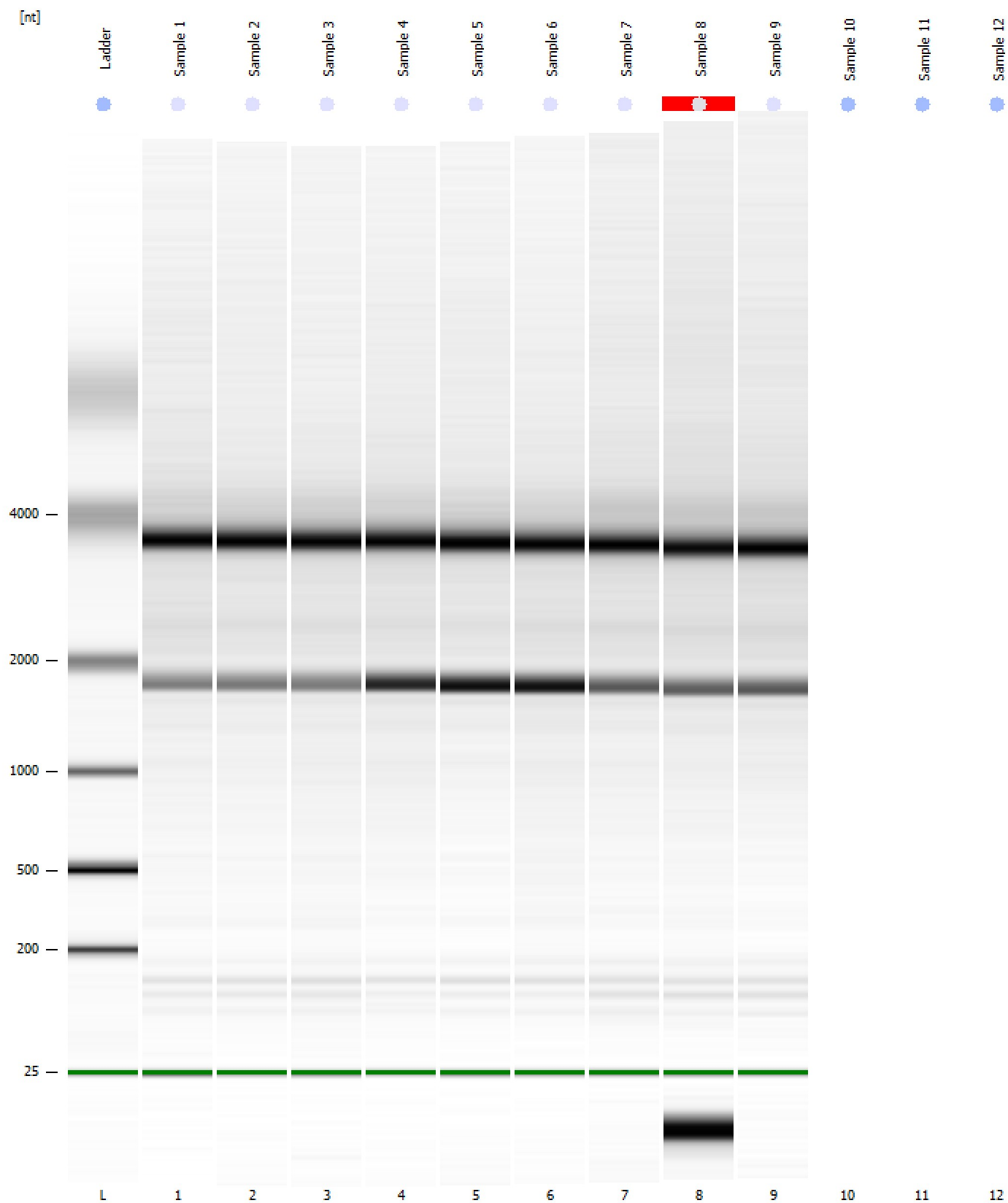
RNA Area:	53.8	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	90 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	2.0	Result Flagging Label:	RIN: 9.10

Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,632	1,976	7.7	14.4
28S	3,153	4,742	15.8	29.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

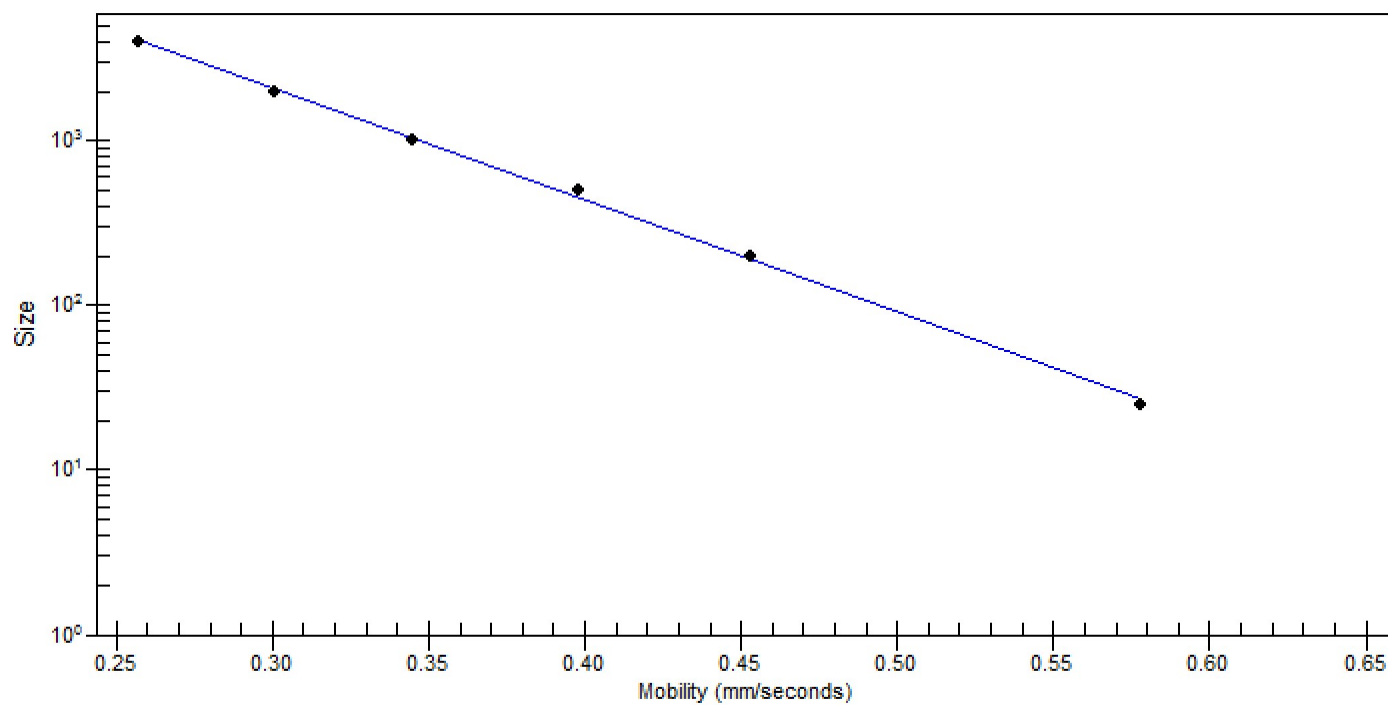
Gel Image

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
Modified: 8/5/2020 4:08:02 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...\data\Helen2020\Eukaryote Total RNA Nano_2020-08-05_Hua.xad

Created: 8/5/2020 3:38:10 PM
 Modified: 8/5/2020 4:08:02 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		8/5/2020 3:57:52 PM	(GMT --04:00) Eastern Standard Time	Wenxiang	GRC_Genespring
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\Data\Eukaryote Total RNA Nano_2020-08-05_001.xad)		Instrument	Run		8/5/2020 3:38:15 PM	(GMT --04:00) Eastern Standard Time	Wenxiang	GRC_Genespring
Product Number : G2939A		Instrument	Run		8/5/2020 3:38:15 PM	(GMT --04:00) Eastern Standard Time	Wenxiang	GRC_Genespring
Name :		Instrument	Run		8/5/2020 3:38:15 PM	(GMT --04:00) Eastern Standard Time	Wenxiang	GRC_Genespring
Vendor : Agilent Technologies		Instrument	Run		8/5/2020 3:38:15 PM	(GMT --04:00) Eastern Standard Time	Wenxiang	GRC_Genespring
Serial# : DE72903171		Instrument	Run		8/5/2020 3:38:15 PM	(GMT --04:00) Eastern Standard Time	Wenxiang	GRC_Genespring
Firmware : C.01.069		Instrument	Run		8/5/2020 3:38:15 PM	(GMT --04:00) Eastern Standard Time	Wenxiang	GRC_Genespring
Cartridge : Electrode		Instrument	Run		8/5/2020 3:38:15 PM	(GMT --04:00) Eastern Standard Time	Wenxiang	GRC_Genespring