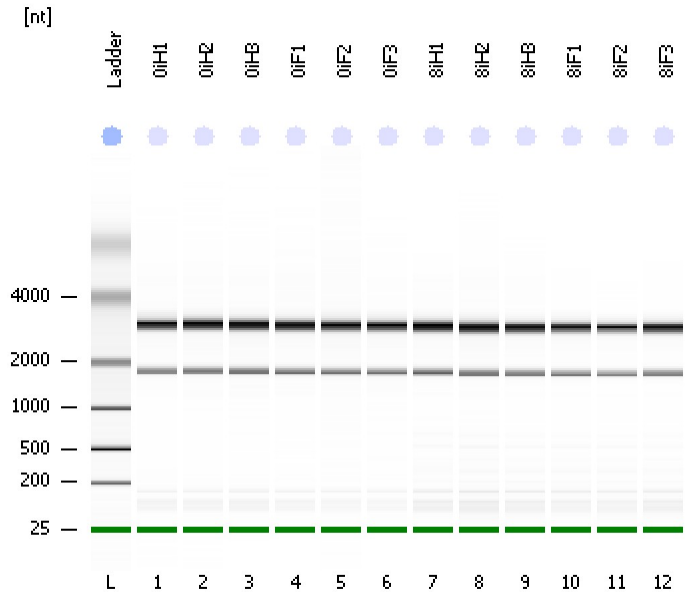


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Electrophoresis File Run Summary



Instrument Information:

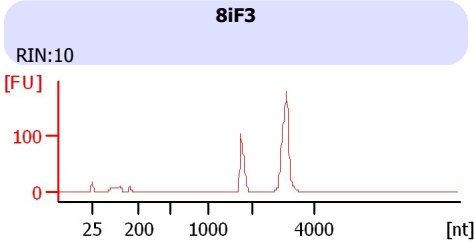
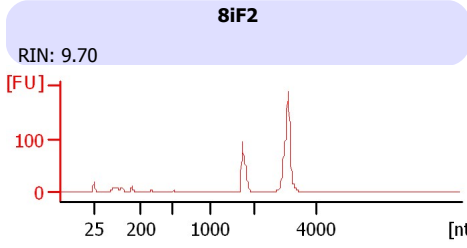
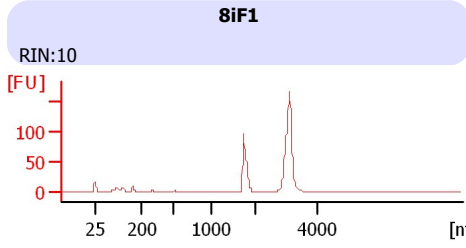
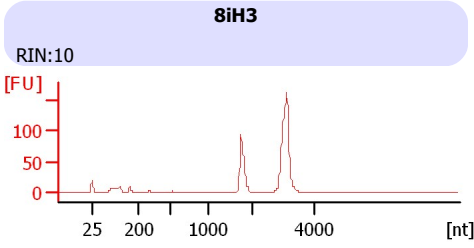
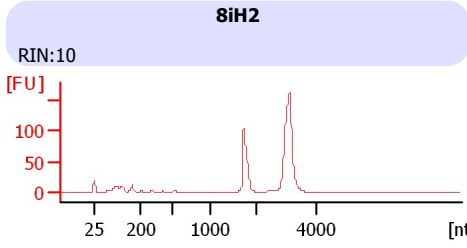
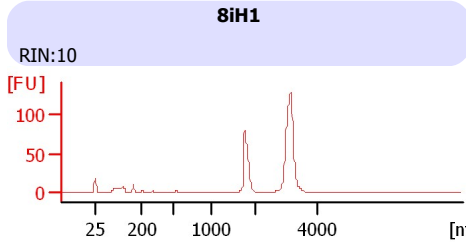
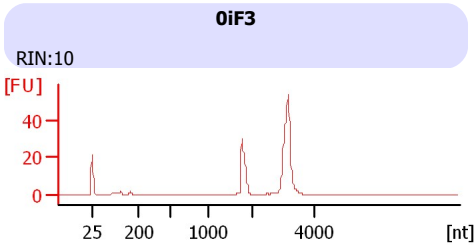
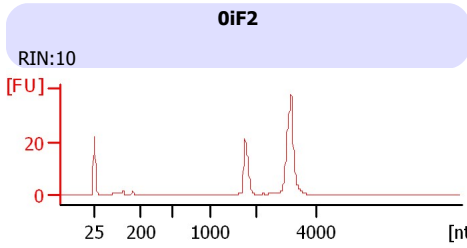
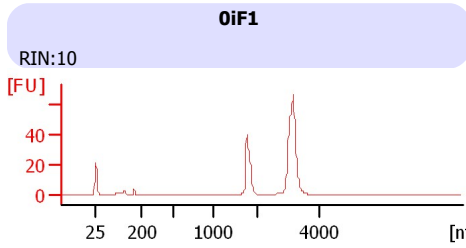
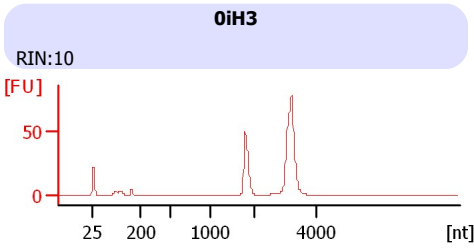
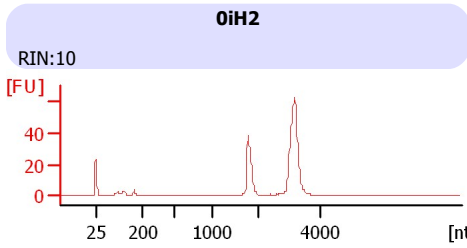
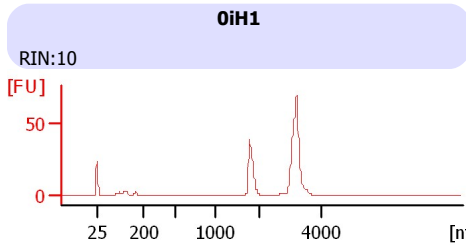
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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:



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
0iH1		✓	RIN:10	
0iH2		✓	RIN:10	
0iH3		✓	RIN:10	
0iF1		✓	RIN:10	
0iF2		✓	RIN:10	
0iF3		✓	RIN:10	
8iH1		✓	RIN:10	
8iH2		✓	RIN:10	
8iH3		✓	RIN:10	
8iF1		✓	RIN:10	
8iF2		✓	RIN: 9.70	
8iF3		✓	RIN:10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 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

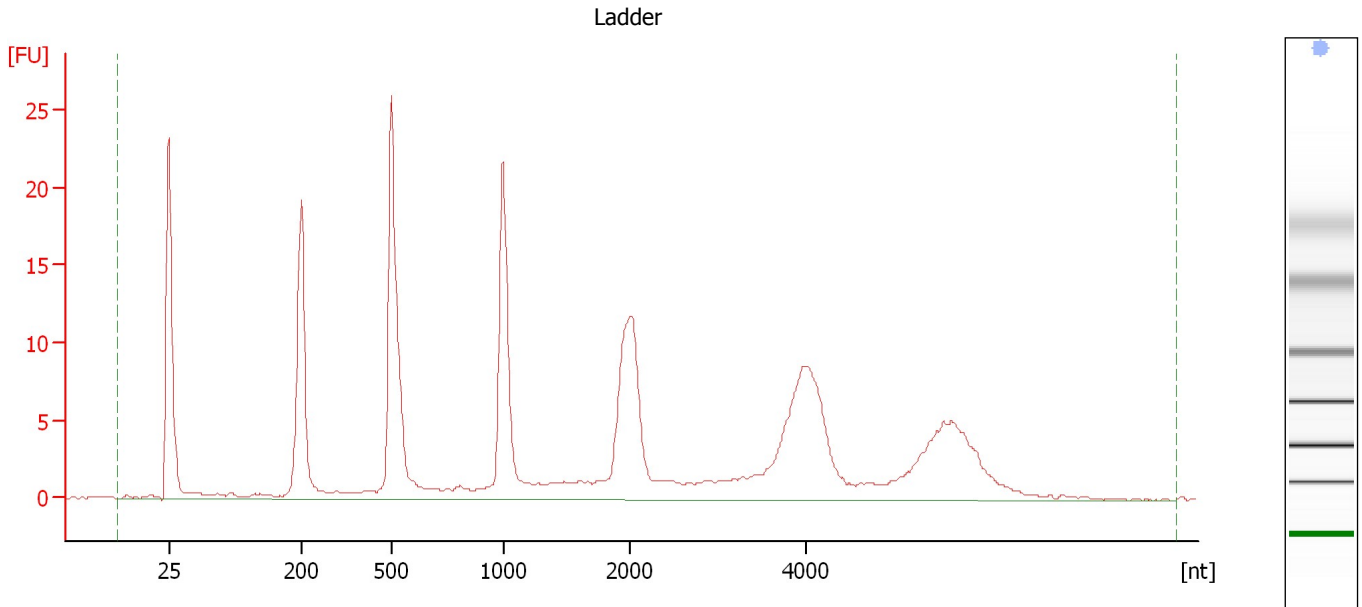
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary



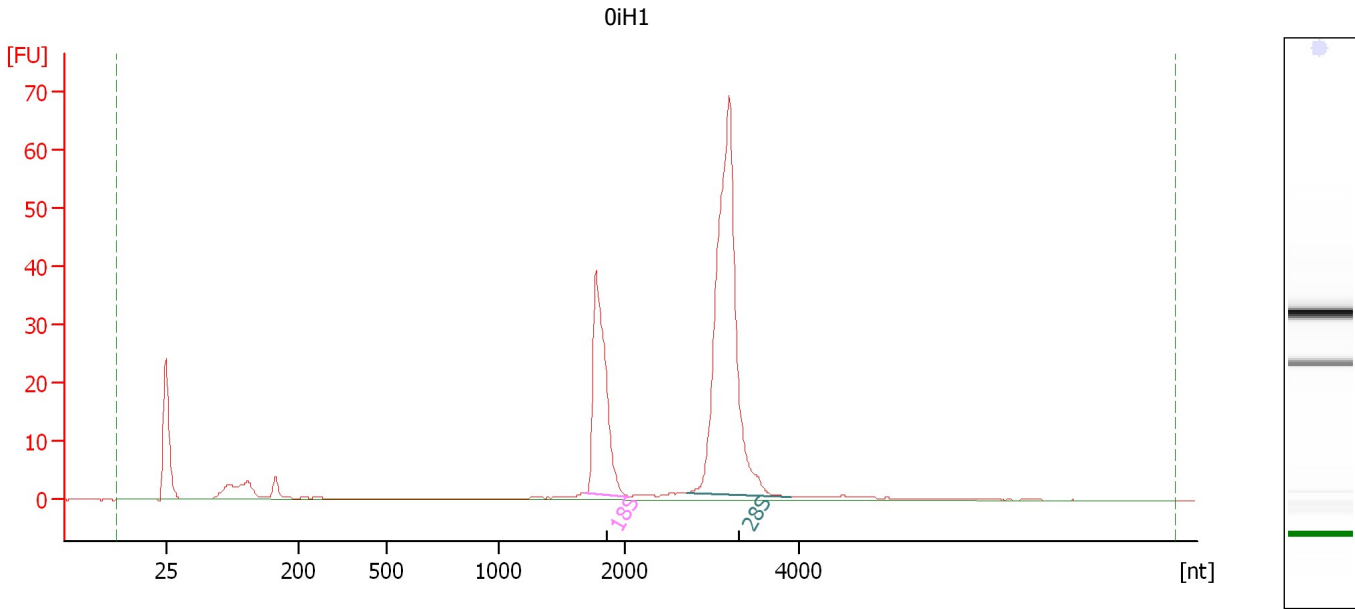
Overall Results for Ladder

RNA Area:	233.9	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : OIH1

RNA Area:	270.9	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	174 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN:10

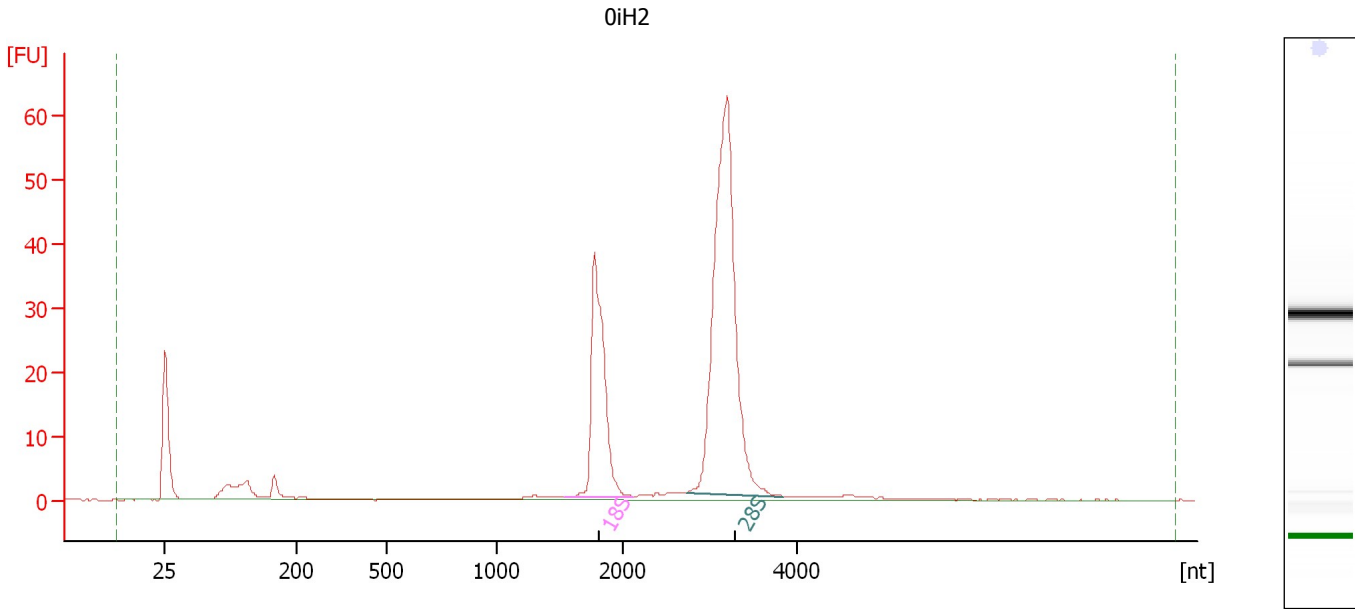
Fragment table for sample 1 : OIH1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,678	2,036	61.0	22.5
28S	2,714	3,897	144.9	53.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 0iH2

RNA Area:	259.3	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	166 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN:10

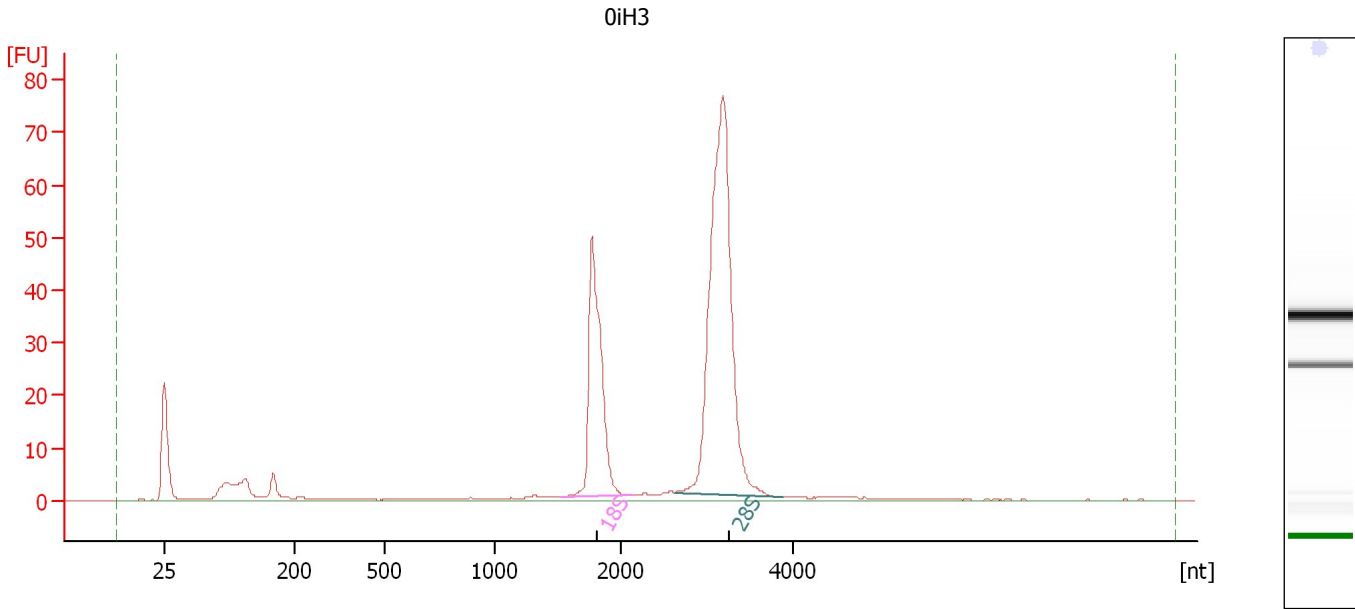
Fragment table for sample 2 : 0iH2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,534	2,098	61.5	23.7
28S	2,728	3,852	144.7	55.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
 Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : OIH3

RNA Area:	341.2	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	219 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN:10

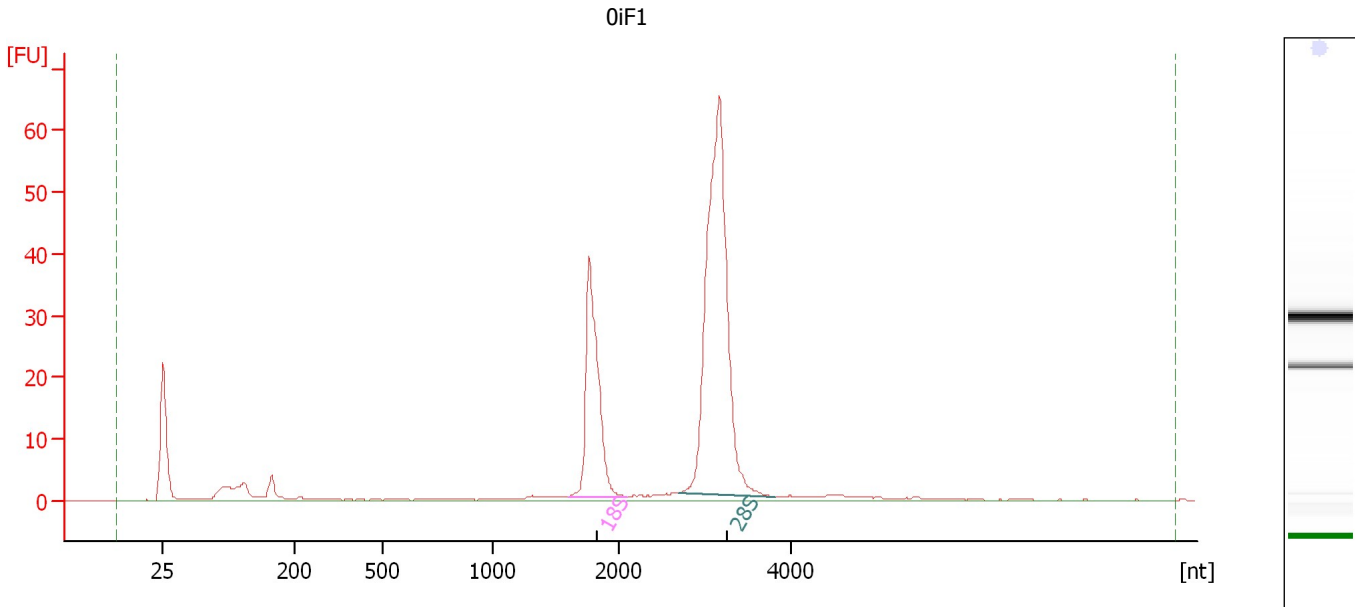
Fragment table for sample 3 : OIH3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,524	2,135	78.3	23.0
28S	2,618	3,881	178.3	52.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
 Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : OiF1

RNA Area:	266.9	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	171 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN:10

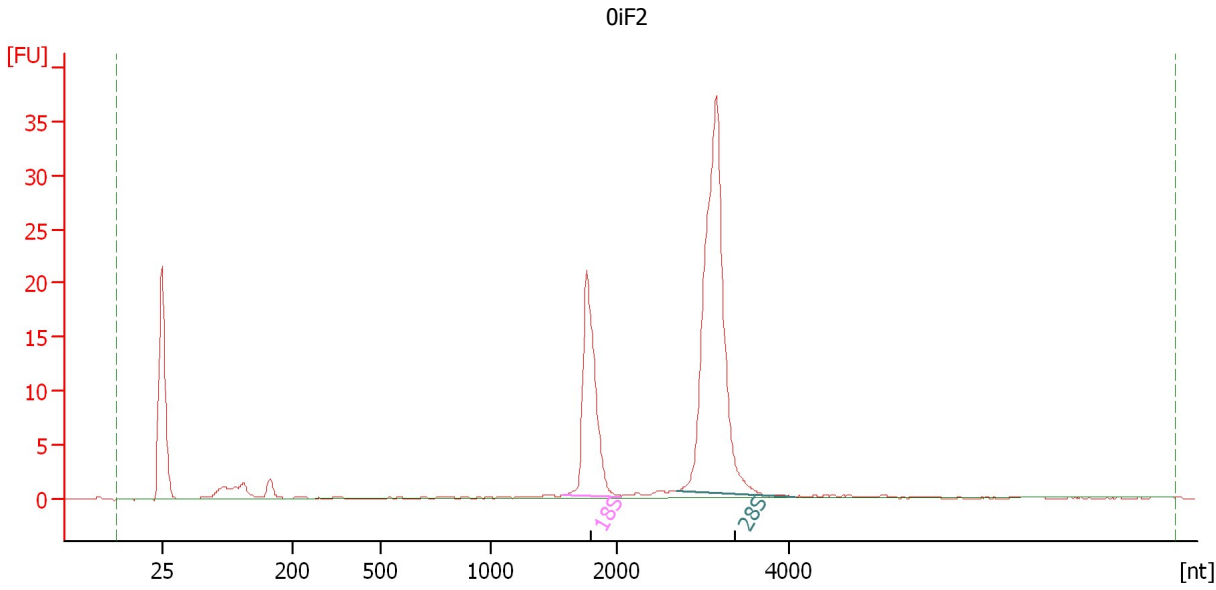
Fragment table for sample 4 : OiF1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,591	2,098	60.9	22.8
28S	2,694	3,798	147.6	55.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : OiF2

RNA Area:	140.5	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	90 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN:10

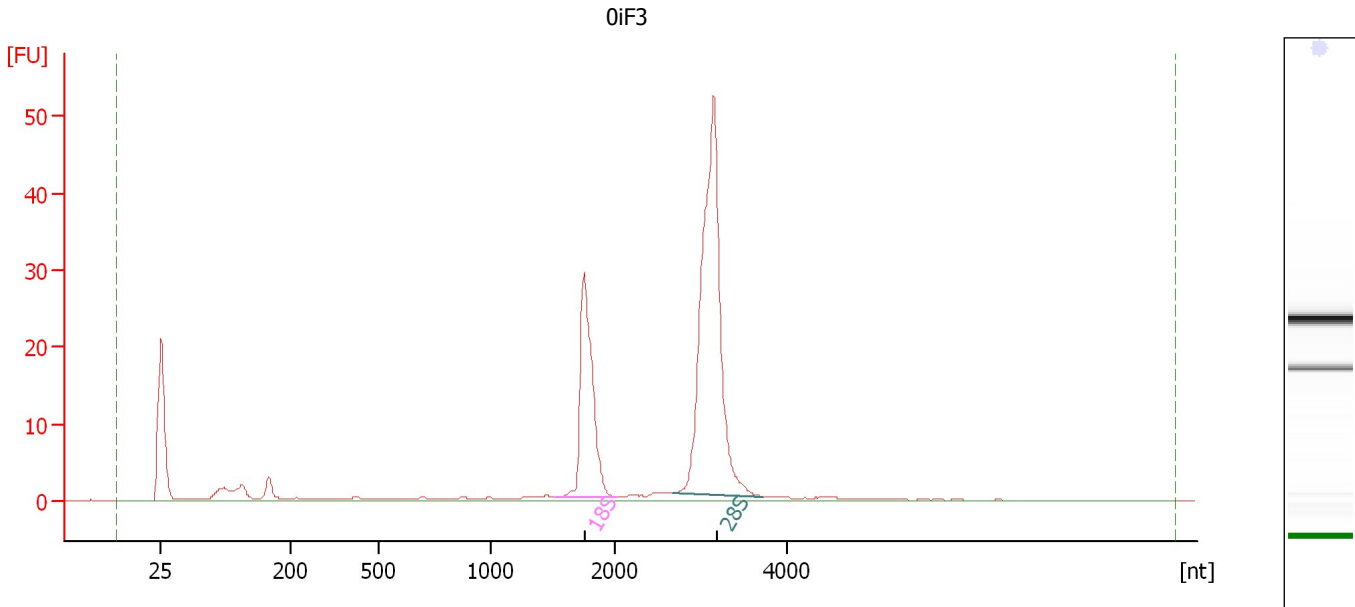
Fragment table for sample 5 : OiF2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,573	2,048	32.8	23.4
28S	2,695	4,064	79.1	56.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : OiF3

RNA Area:	195.1	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	125 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN:10

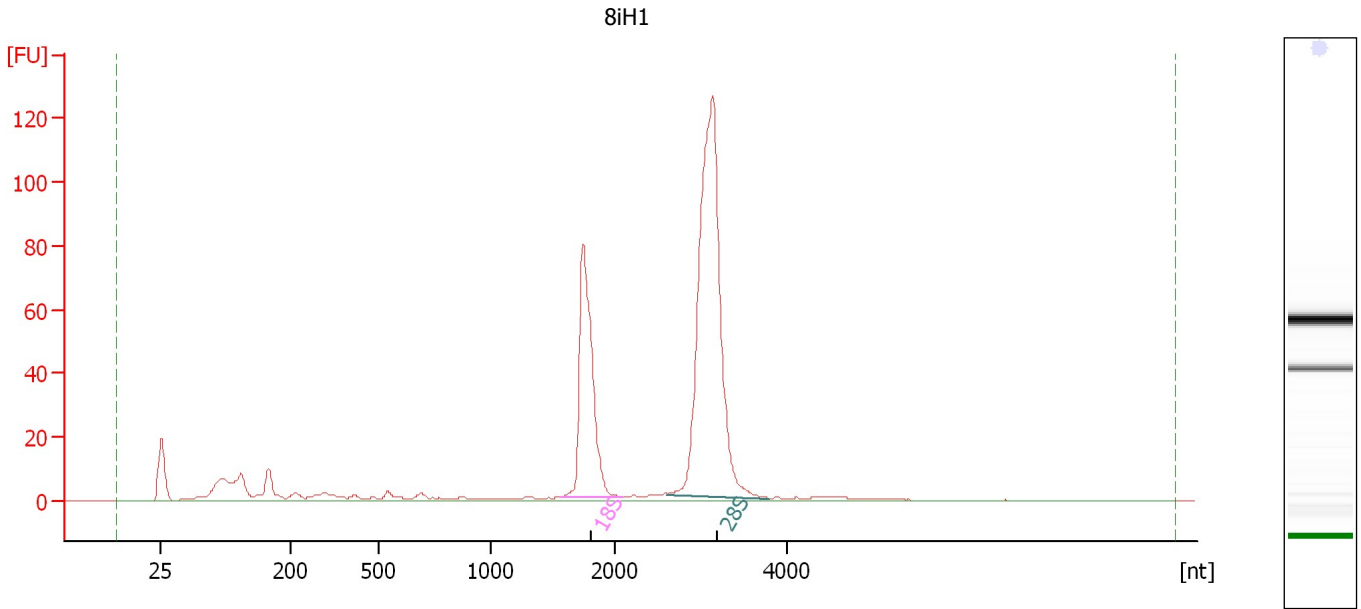
Fragment table for sample 6 : OiF3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,520	2,023	45.3	23.2
28S	2,684	3,719	107.6	55.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
 Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 8iH1

RNA Area:	590.7	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	379 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN:10

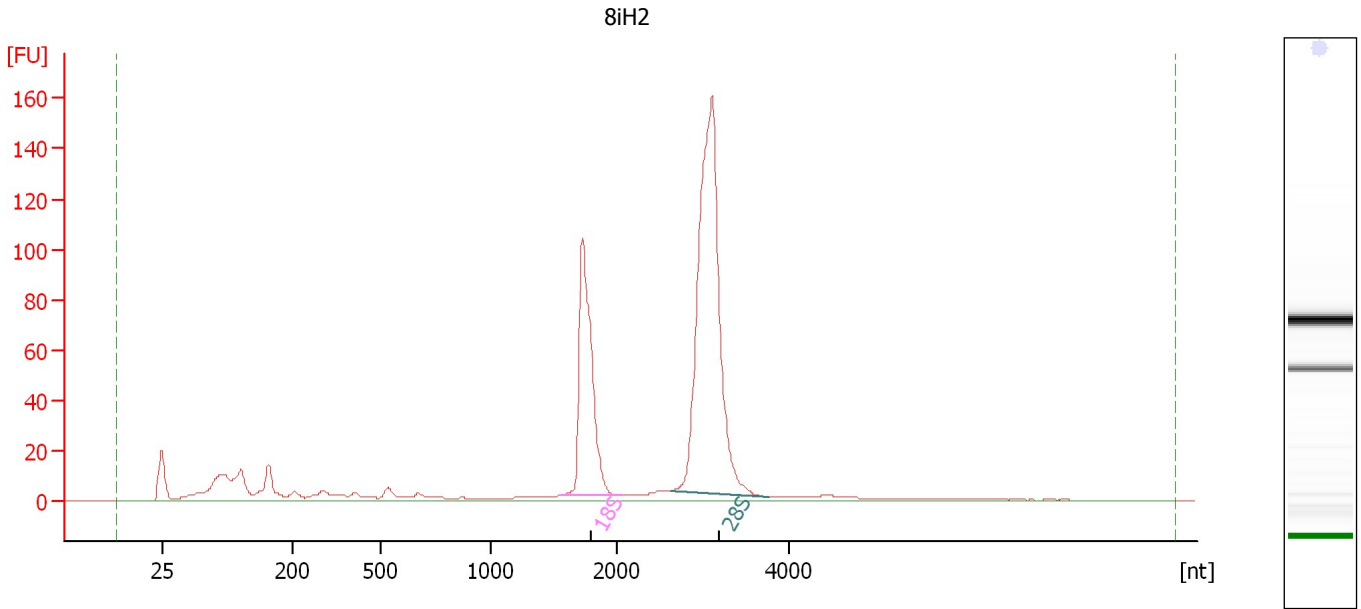
Fragment table for sample 7 : 8iH1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,563	2,098	128.4	21.7
28S	2,609	3,794	300.4	50.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 8iH2

RNA Area: 806.3 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 517 ng/μl
rRNA Ratio [28s / 18s]: 2.3
Result Flagging Color:
Result Flagging Label: RIN:10

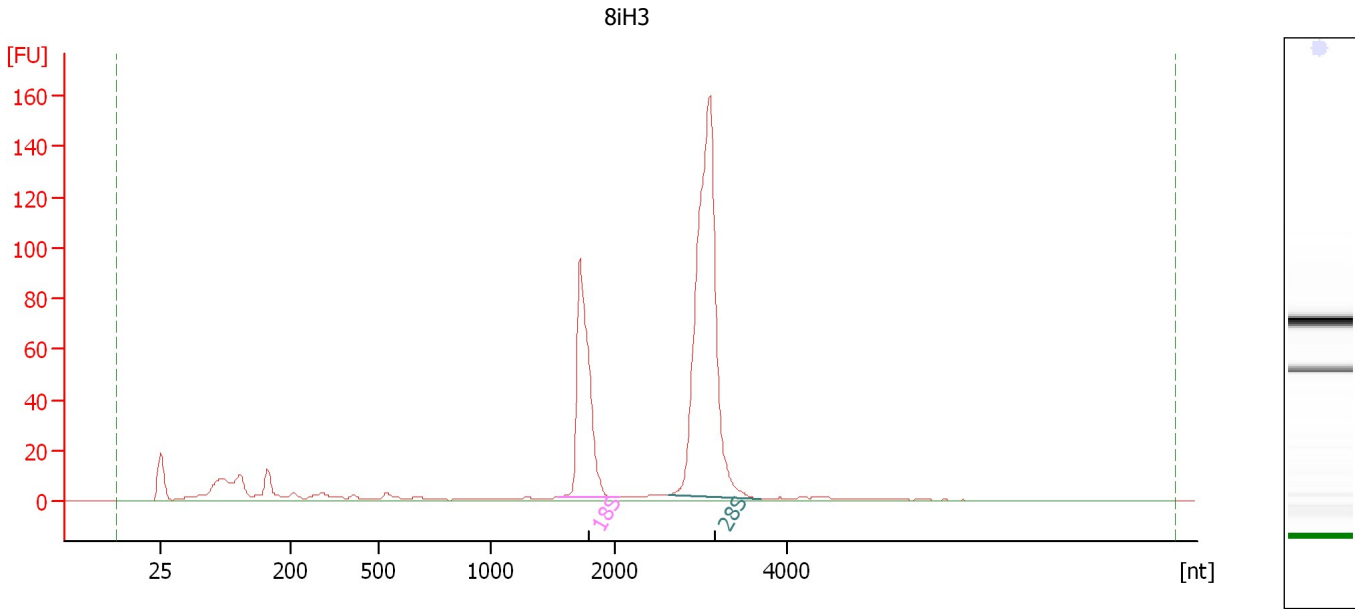
Fragment table for sample 8 : 8iH2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,556	2,073	162.8	20.2
28S	2,633	3,765	376.5	46.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
 Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 8iH3

RNA Area:	674.0	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	432 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN:10

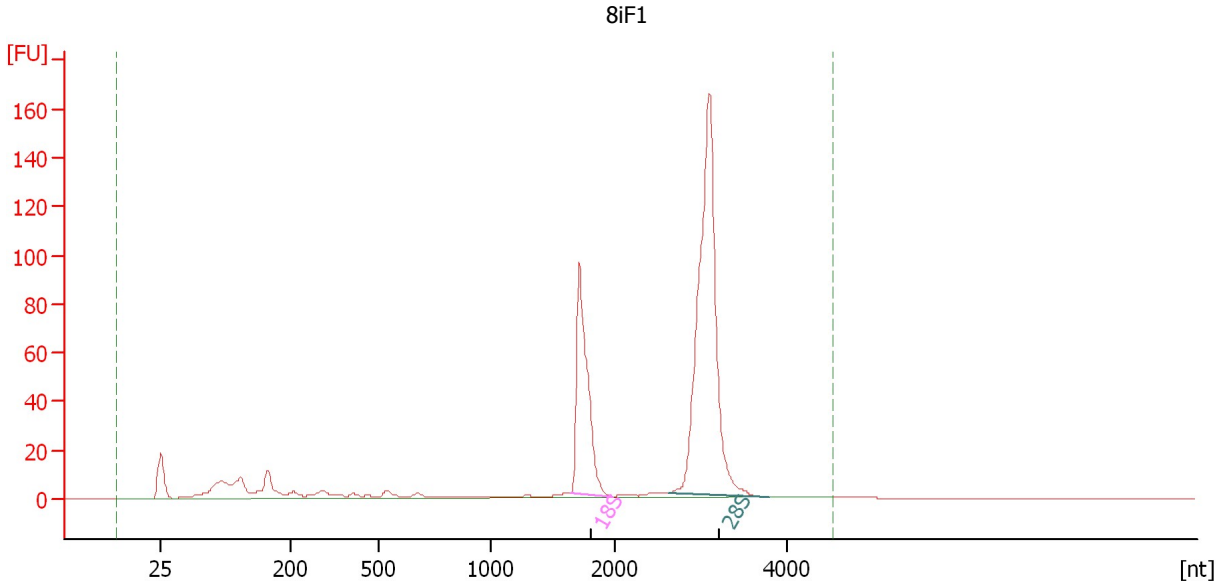
Fragment table for sample 9 : 8iH3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,555	2,048	146.3	21.7
28S	2,634	3,694	339.5	50.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : 8iF1

End Analysis Time Range [s] : 53

Overall Results for sample 10 : 8iF1

RNA Area:	595.3	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	382 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN:10

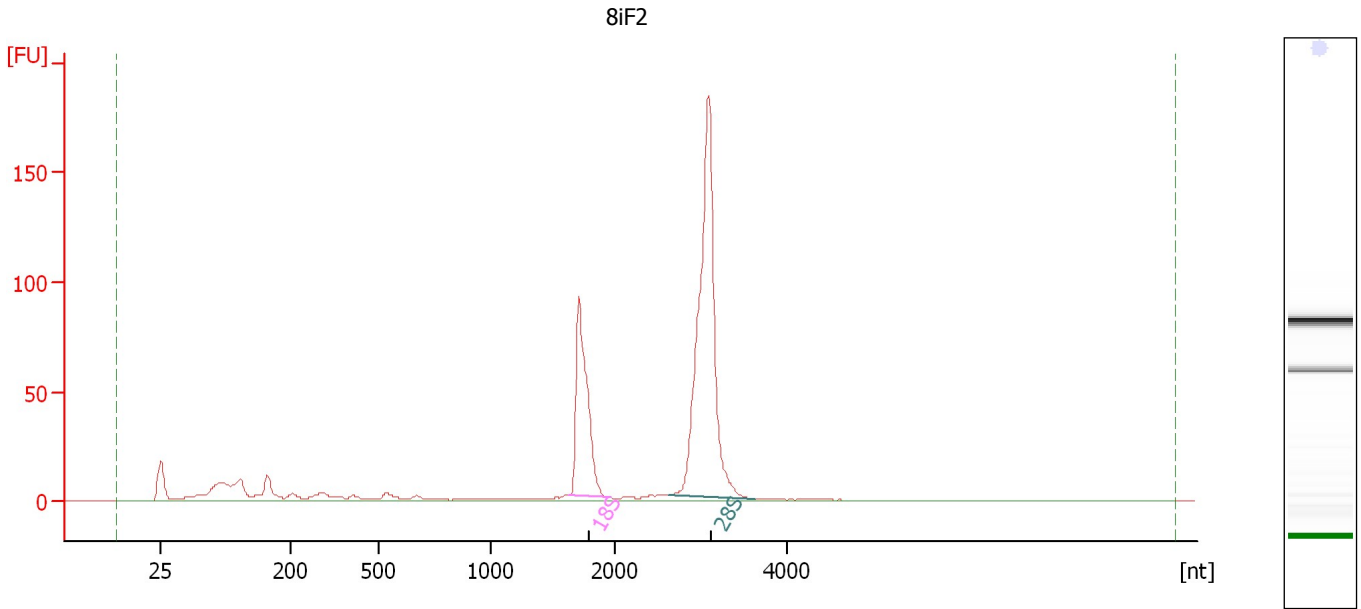
Fragment table for sample 10 : 8iF1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	1,982	130.2	21.9
28S	2,622	3,794	316.4	53.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 8iF2

RNA Area:	642.1	RNA Integrity Number (RIN):	9.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	412 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN: 9.70

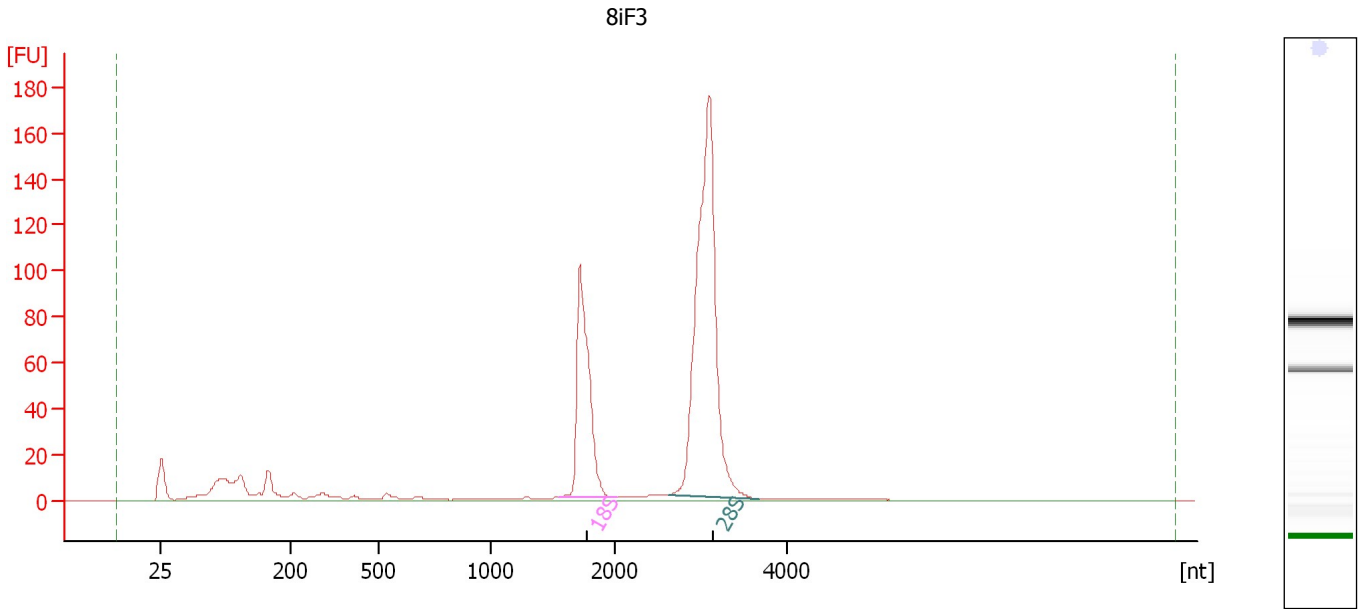
Fragment table for sample 11 : 8iF2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,631	1,965	130.1	20.3
28S	2,622	3,632	312.3	48.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 8iF3

RNA Area:	723.7	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	464 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN:10

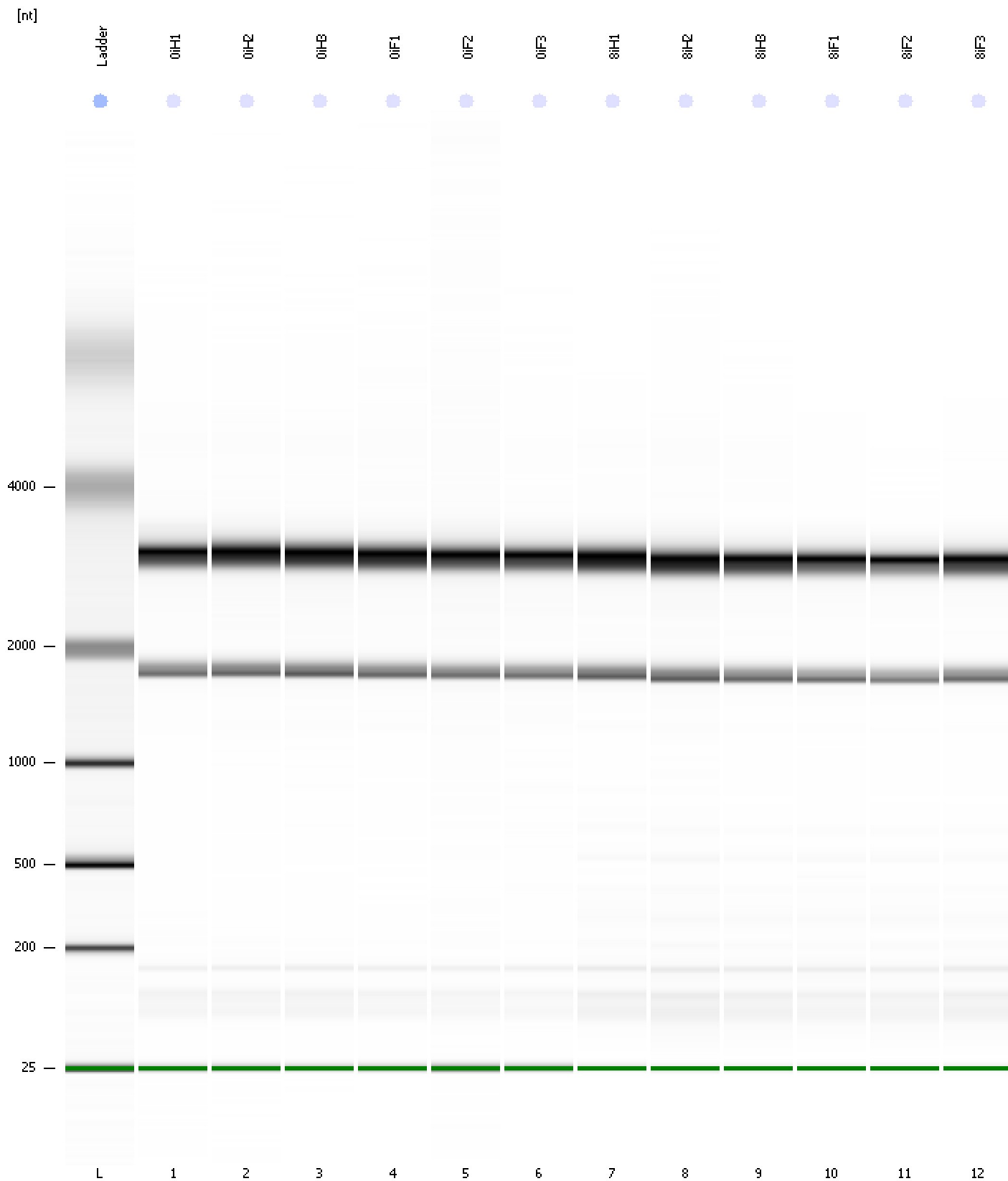
Fragment table for sample 12 : 8iF3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,555	2,011	155.1	21.4
28S	2,634	3,669	362.9	50.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Gel Image

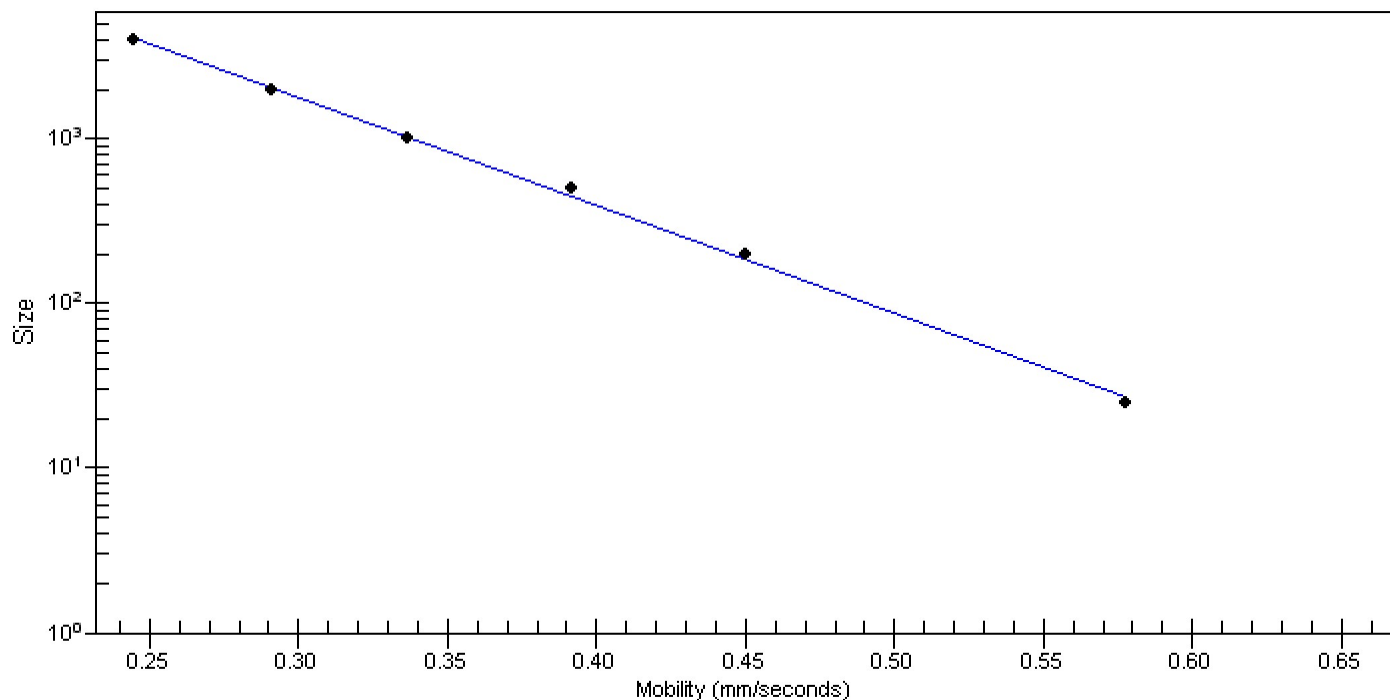


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
Modified: 8/30/2019 1:56:54 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-30\2019-08-30_002.xad

Created: 8/30/2019 1:33:03 PM
 Modified: 8/30/2019 1:56:54 PM

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		8/30/2019 1:56:52 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\2019-08-30\2019-08-30_002.xad)		Instrument	Run		8/30/2019 1:33:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/30/2019 1:33:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/30/2019 1:33:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/30/2019 1:33:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/30/2019 1:33:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/30/2019 1:33:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/30/2019 1:33:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1