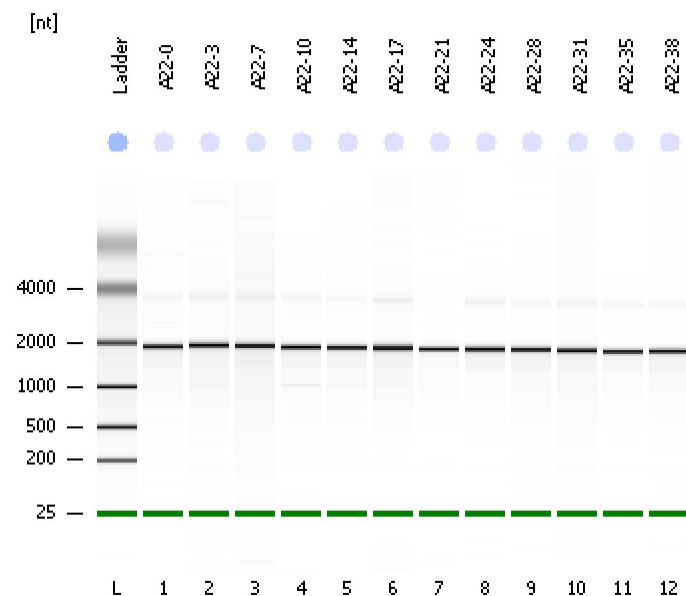


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electrophoresis File Run SummaryInstrument Information:

Instrument Name: DE24802438
Serial#: DE24802438

Firmware: C.01.069
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)

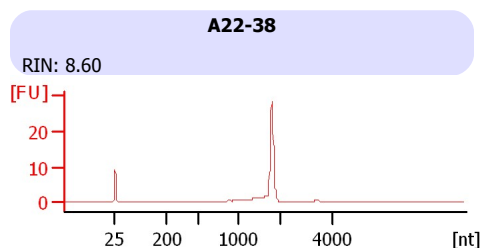
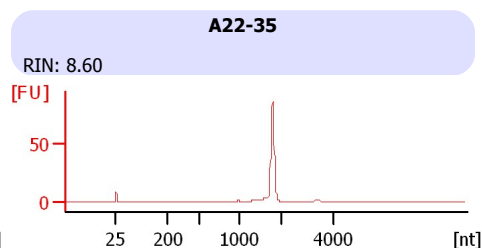
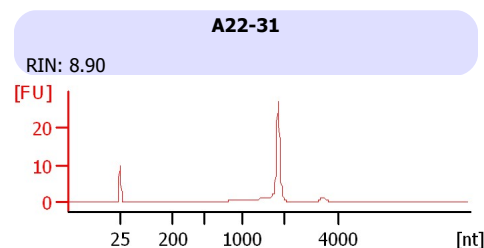
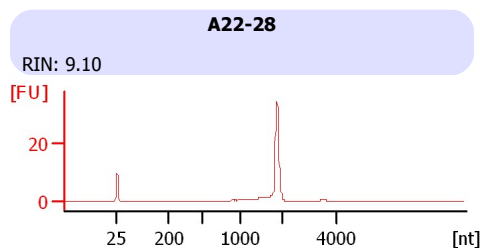
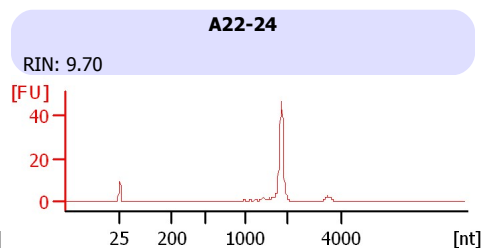
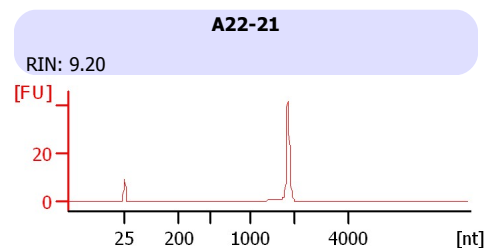
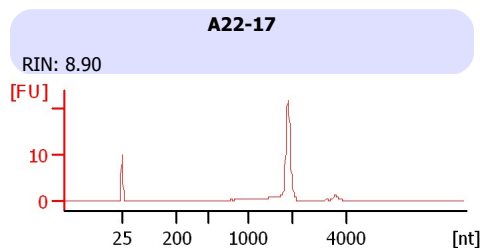
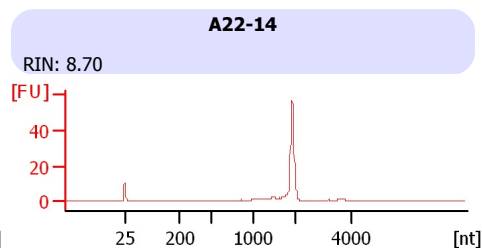
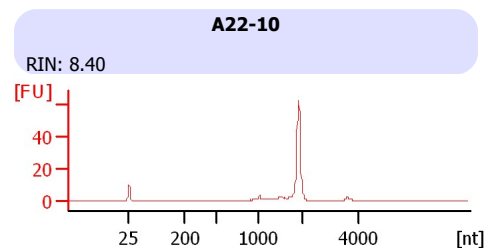
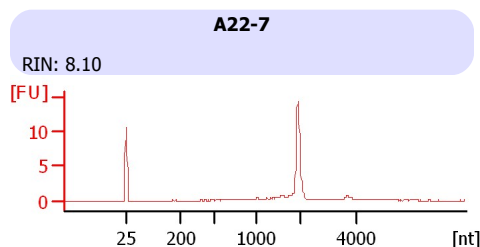
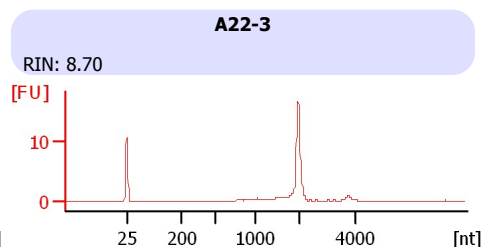
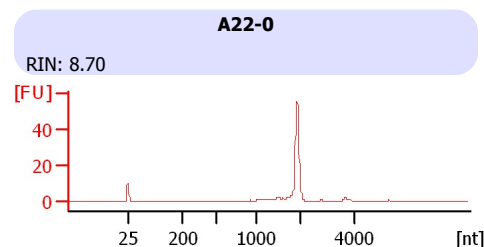
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
A22-0		✓	RIN: 8.70	
A22-3		✓	RIN: 8.70	
A22-7		✓	RIN: 8.10	
A22-10		✓	RIN: 8.40	
A22-14		✓	RIN: 8.70	
A22-17		✓	RIN: 8.90	
A22-21		✓	RIN: 9.20	
A22-24		✓	RIN: 9.70	
A22-28		✓	RIN: 9.10	
A22-31		✓	RIN: 8.90	
A22-35		✓	RIN: 8.60	
A22-38		✓	RIN: 8.60	

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 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

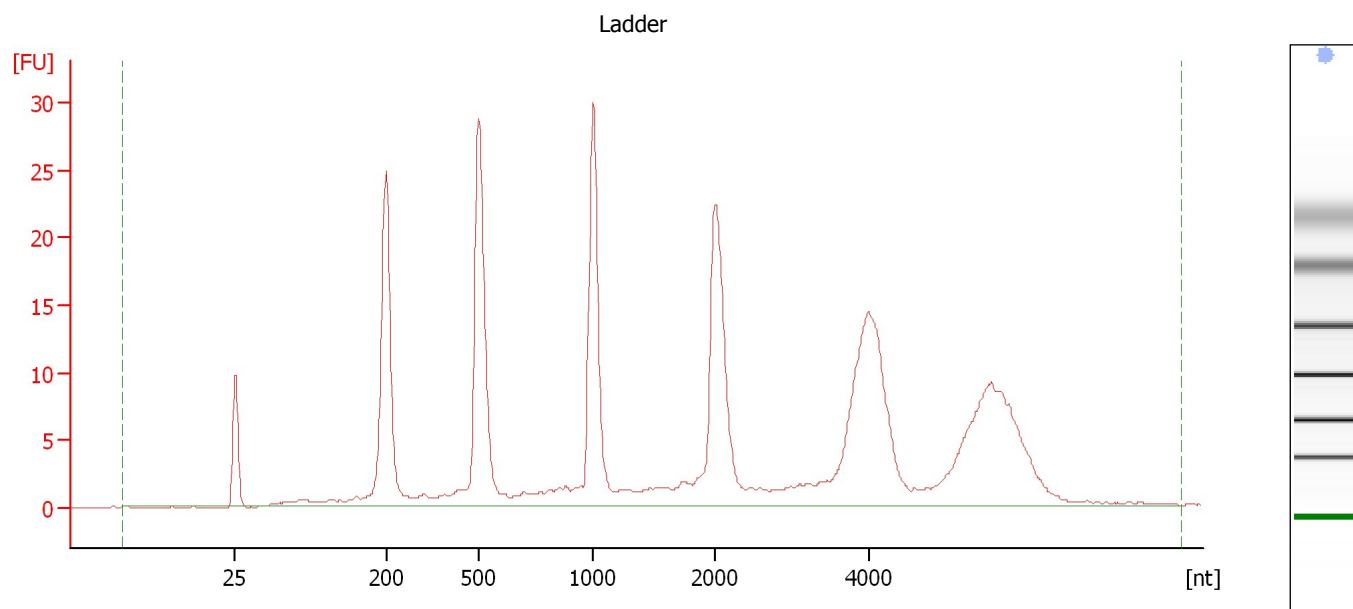
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary



Overall Results for Ladder

RNA Area: 302.8

Result Flagging Color:



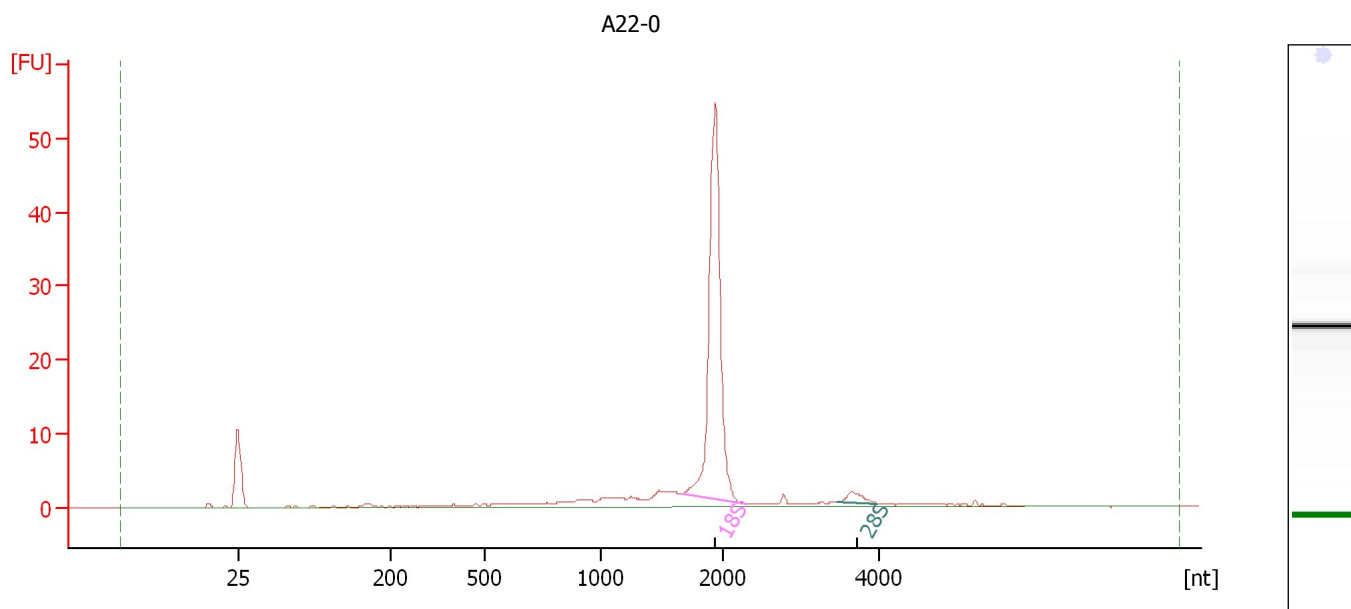
RNA Concentration: 150 ng/μl

Result Flagging Label:

All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

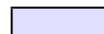
Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 1 : A22-0**

RNA Area: 118.7
RNA Concentration: 59 ng/μl
rRNA Ratio [28s / 18s]: 0.0

RNA Integrity Number (RIN): 8.7 (B.02.07,
Anomaly Threshold(s)
manually adapted)

Result Flagging Color:



Result Flagging Label:

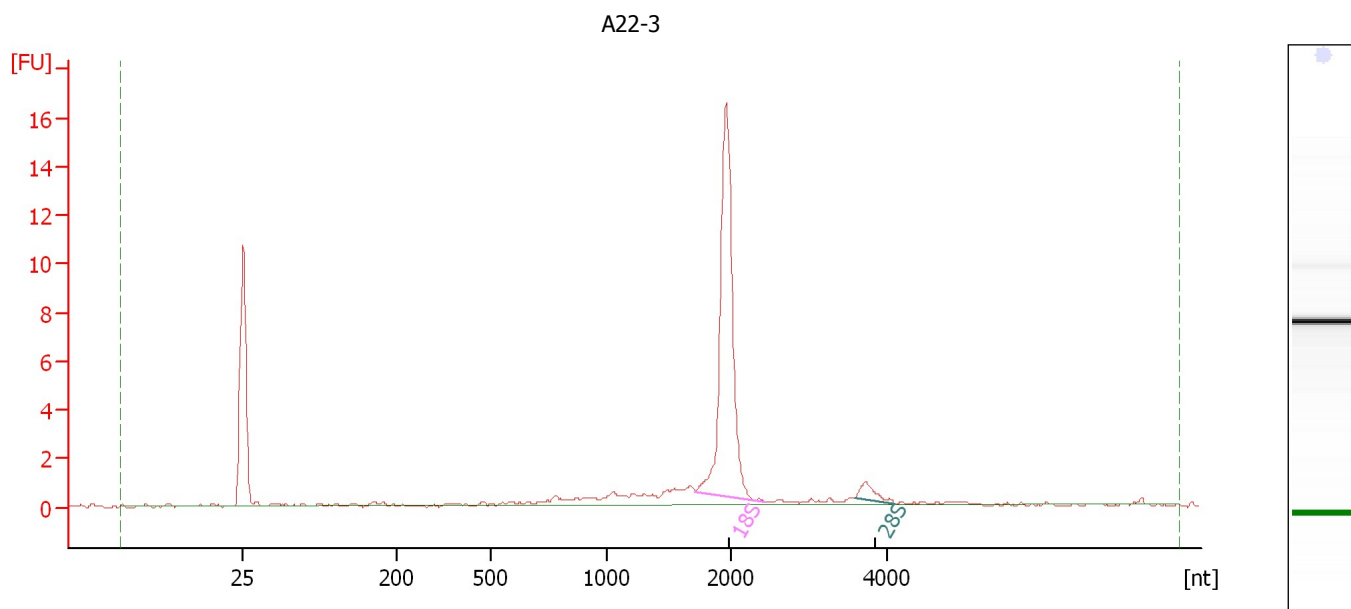
RIN: 8.70

Fragment table for sample 1 : A22-0

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,674	2,308	67.6	57.0
28S	3,463	3,986	2.3	1.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 2 : A22-3**

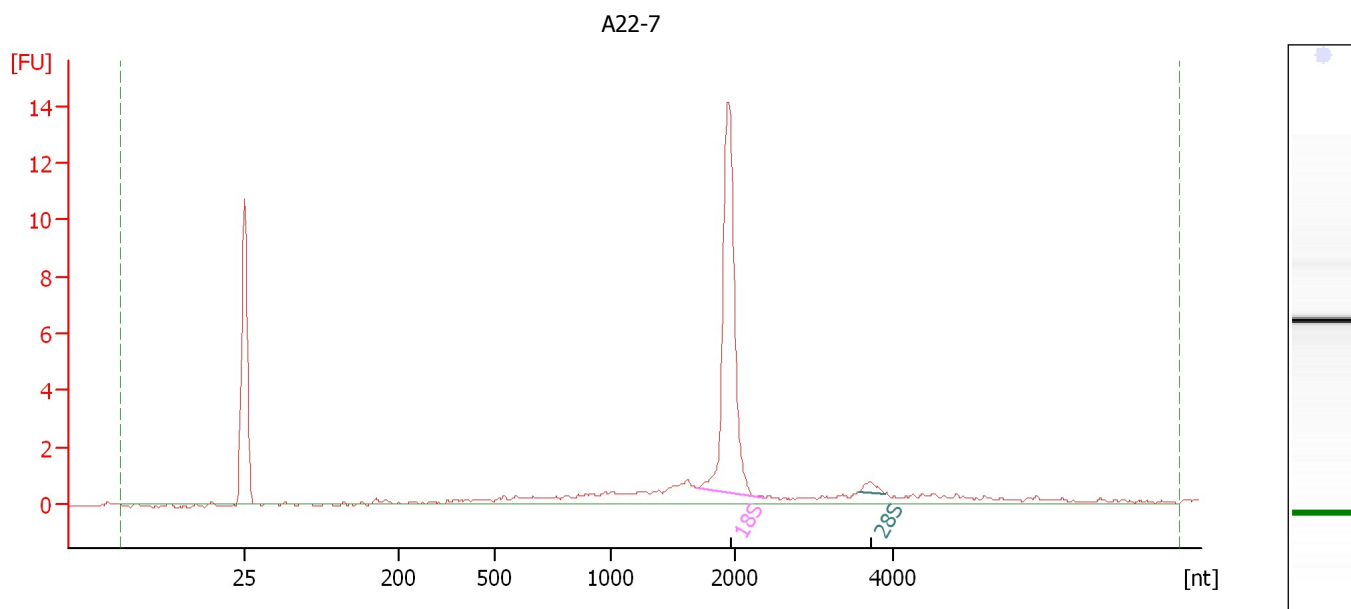
RNA Area:	37.5	RNA Integrity Number (RIN):	8.7 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	19 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 8.70

Fragment table for sample 2 : A22-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,714	2,420	22.2	59.2
28S	3,580	4,098	1.0	2.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 3 : A22-7**

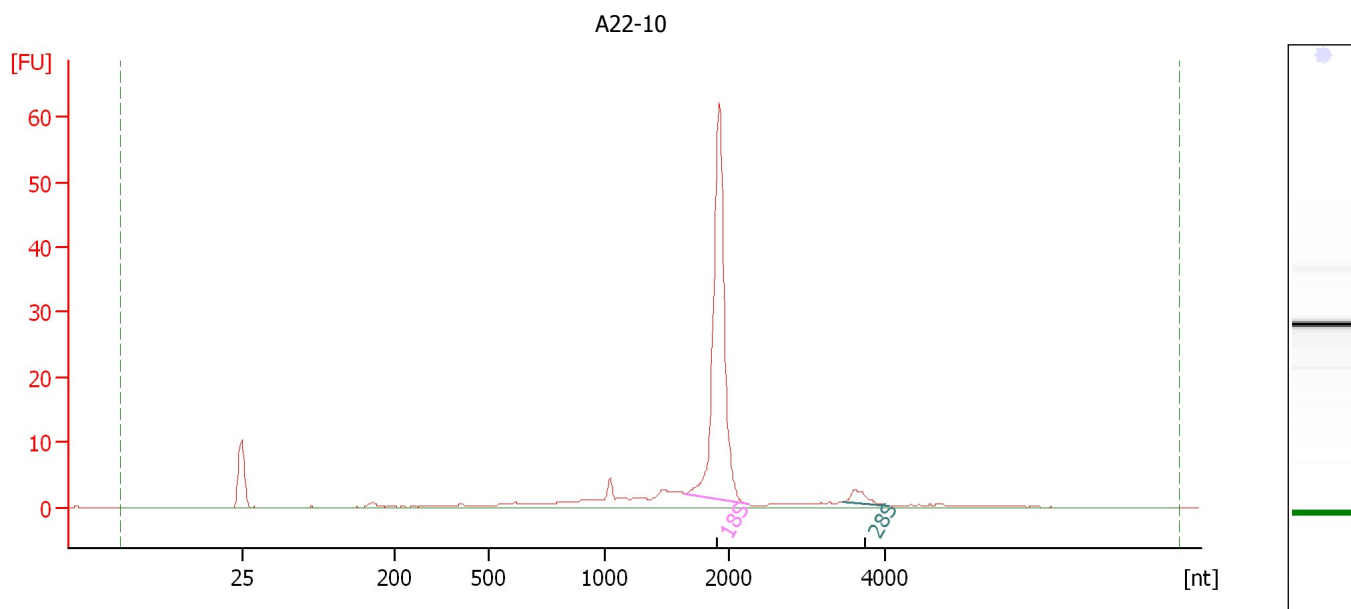
RNA Area:	37.4	RNA Integrity Number (RIN):	8.1 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	19 ng/μl		
rRNA Ratio [28s / 18s]:	0.0		
		Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 8.10

Fragment table for sample 3 : A22-7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,691	2,380	17.9	47.8
28S	3,576	3,902	0.5	1.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 4 : A22-10**

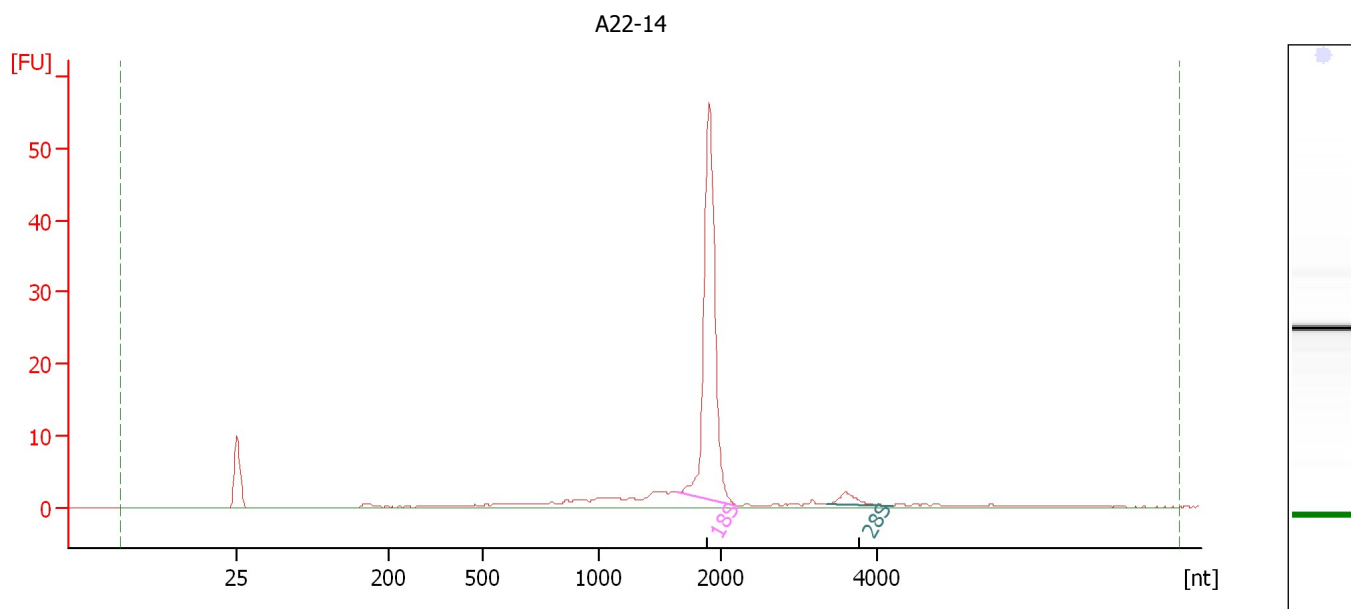
RNA Area:	133.7	RNA Integrity Number (RIN):	8.4 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	66 ng/μl		
rRNA Ratio [28s / 18s]:	0.0		
		Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 8.40

Fragment table for sample 4 : A22-10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	2,256	77.5	58.0
28S	3,445	4,033	3.3	2.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

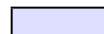
Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 5 : A22-14**

RNA Area: 113.5
RNA Concentration: 56 ng/μl
rRNA Ratio [28s / 18s]: 0.0

RNA Integrity Number (RIN): 8.7 (B.02.07,
Anomaly Threshold(s)
manually adapted)

Result Flagging Color:



Result Flagging Label:

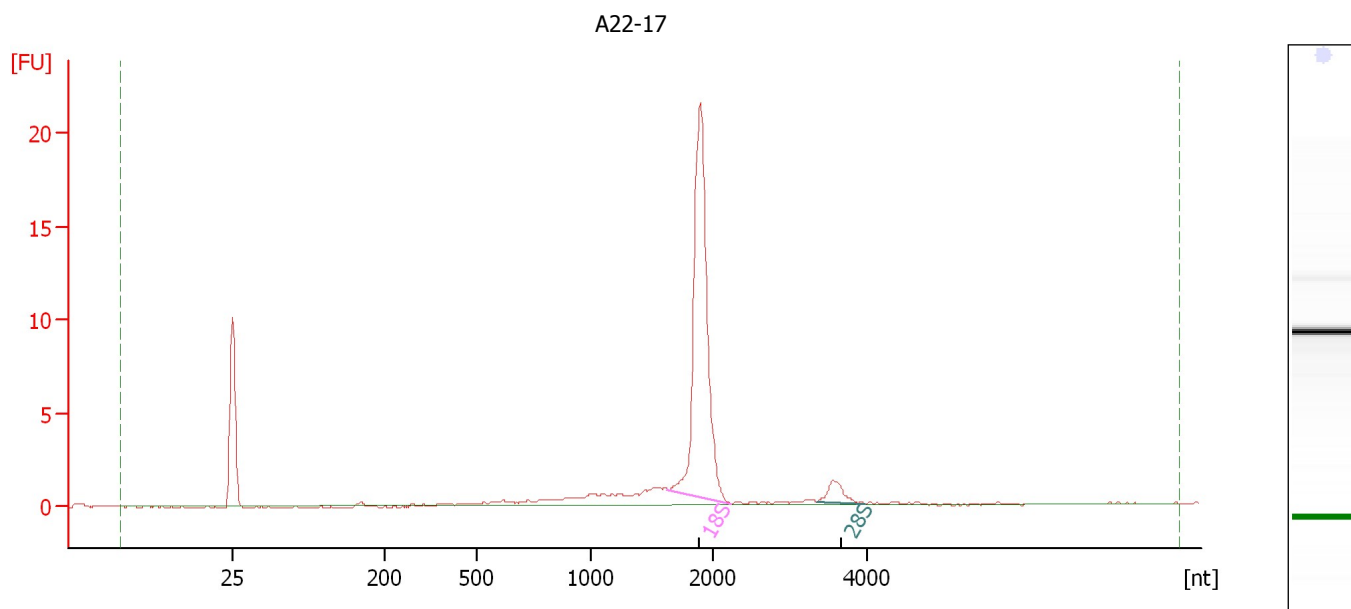
RIN: 8.70

Fragment table for sample 5 : A22-14

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,637	2,211	69.5	61.3
28S	3,369	4,209	2.8	2.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 6 : A22-17**

RNA Area: 48.1

RNA Integrity Number (RIN):

8.9 (B.02.07,
Anomaly Threshold(s)
manually adapted)

RNA Concentration: 24 ng/μl

rRNA Ratio [28S / 18S]: 0.1

Result Flagging Color:



Result Flagging Label:

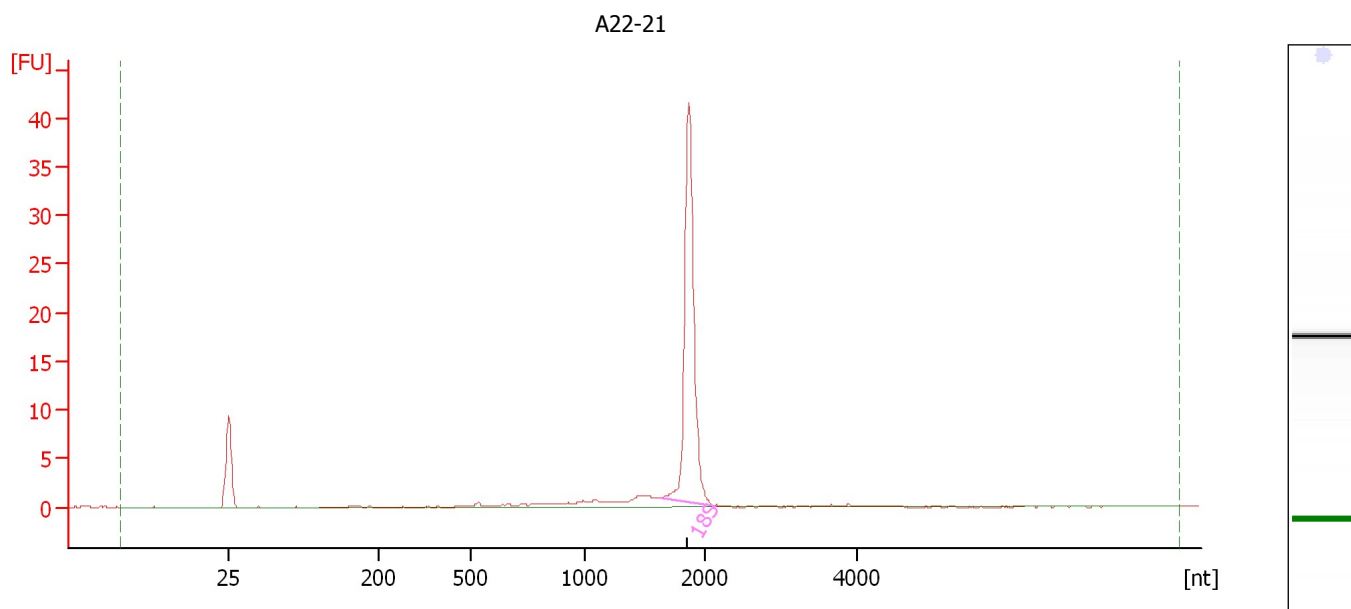
RIN: 8.90

Fragment table for sample 6 : A22-17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,622	2,222	31.9	66.2
28S	3,347	3,986	1.9	4.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 7 : A22-21**

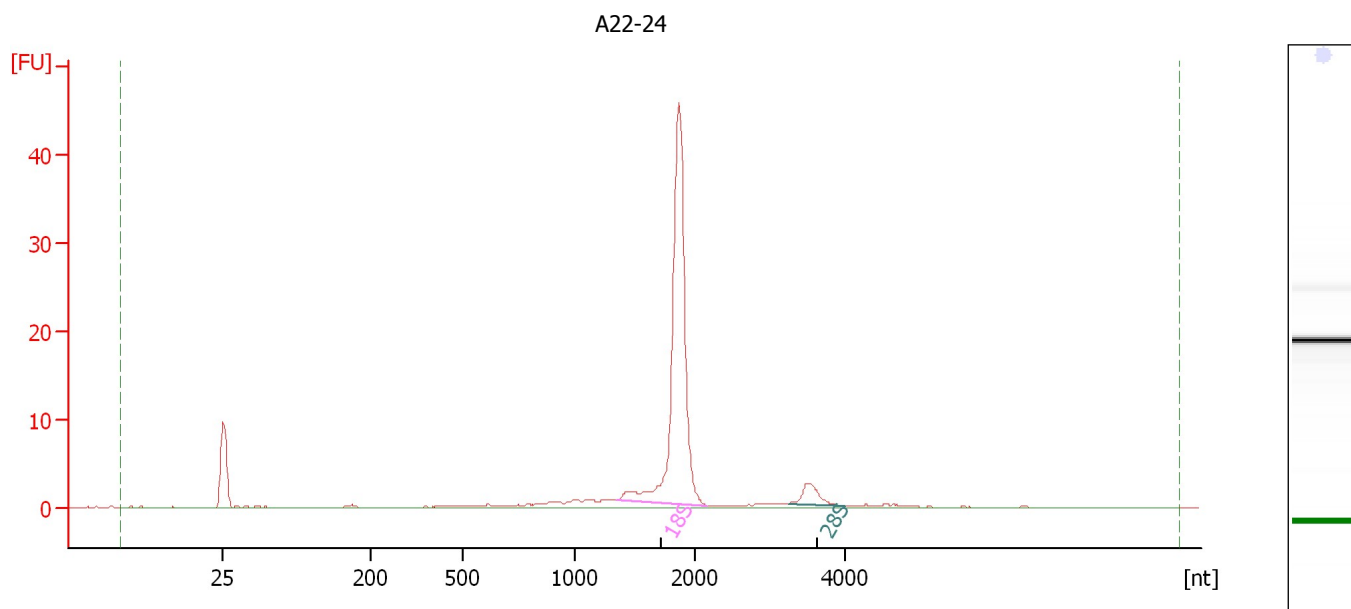
RNA Area:	58.1	RNA Integrity Number (RIN):	9.2 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	29 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 9.20

Fragment table for sample 7 : A22-21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	2,120	45.9	79.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 8 : A22-24**

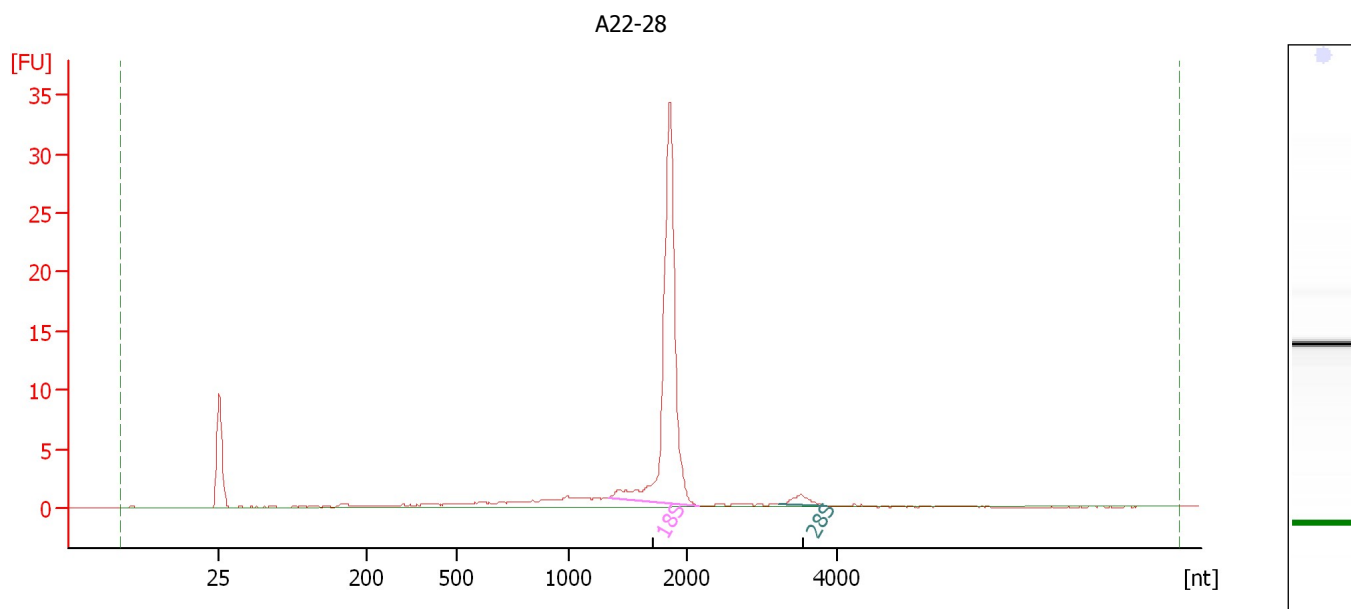
RNA Area:	90.9	RNA Integrity Number (RIN):	9.7 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	45 ng/μl		
rRNA Ratio [28S / 18S]:	0.1	Result Flagging Color:	<div style="background-color: #ccccff; width: 50px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 9.70

Fragment table for sample 8 : A22-24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,358	2,157	66.6	73.3
28S	3,247	3,996	4.2	4.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 9 : A22-28**

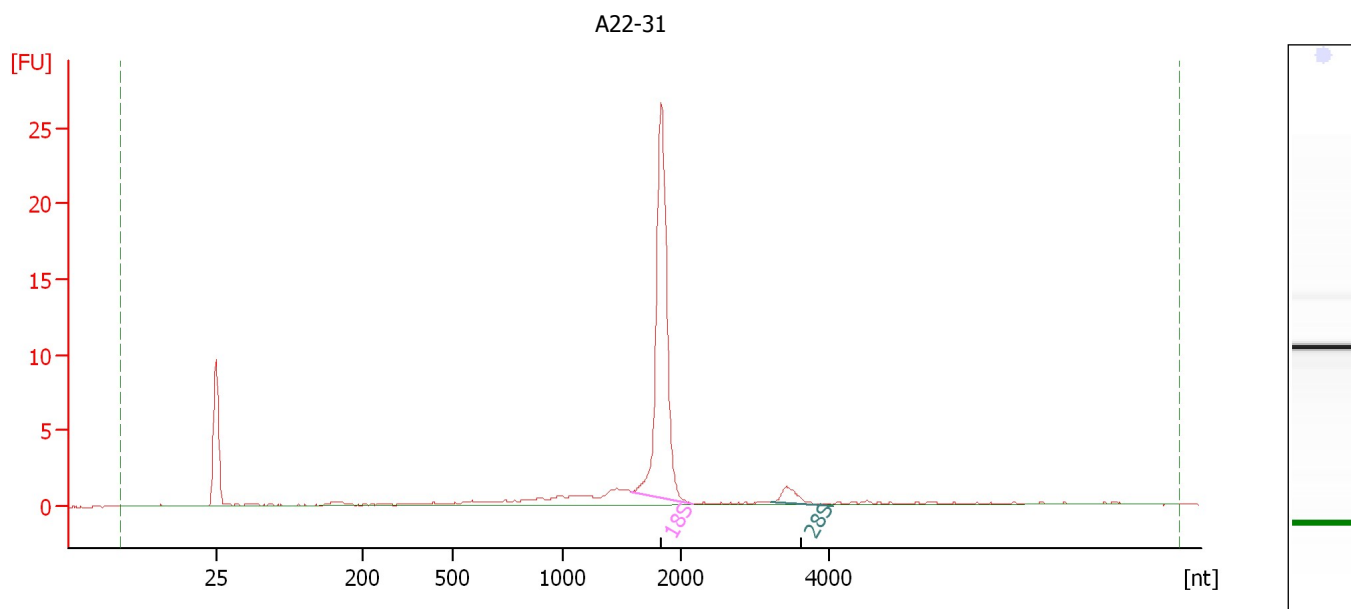
RNA Area:	67.5	RNA Integrity Number (RIN):	9.1 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	33 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #ccccff; width: 50px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 9.10

Fragment table for sample 9 : A22-28

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,340	2,168	46.9	69.5
28S	3,237	3,879	1.6	2.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 10 : A22-31**

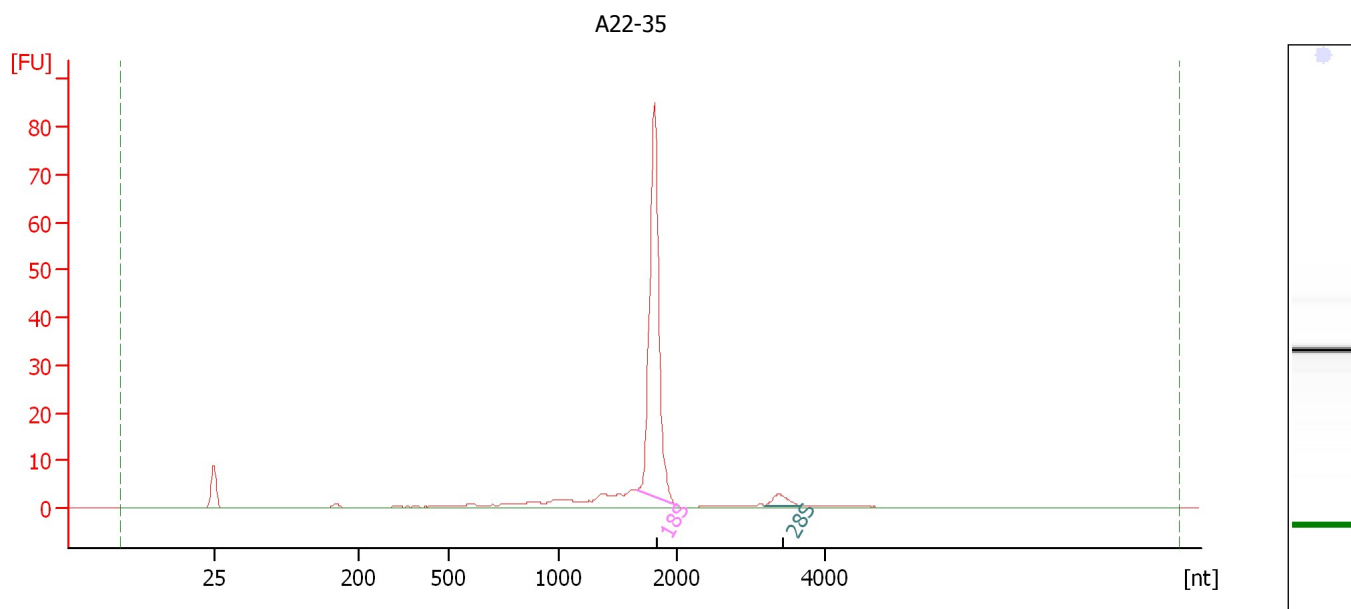
RNA Area:	54.2	RNA Integrity Number (RIN):	8.9 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	27 ng/μl		
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Color:	<div style="background-color: #ccccff; width: 50px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 8.90

Fragment table for sample 10 : A22-31

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,587	2,165	33.1	61.0
28S	3,213	4,045	1.9	3.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 11 : A22-35**

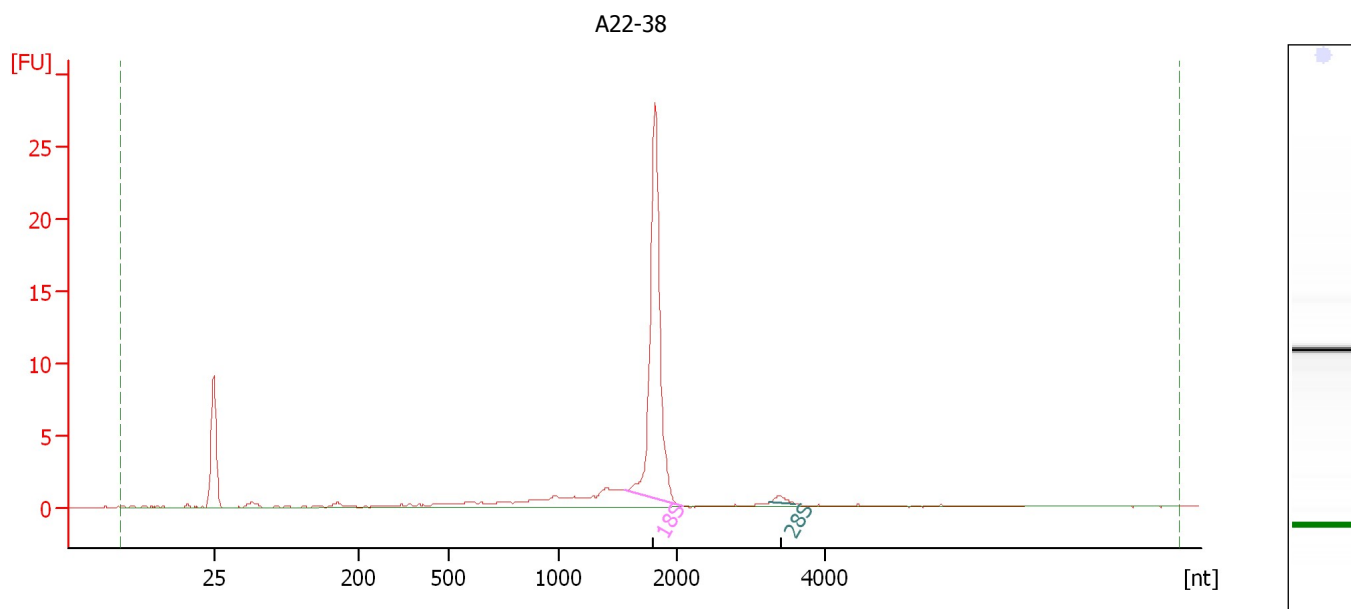
RNA Area:	156.0	RNA Integrity Number (RIN):	8.6 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	77 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 8.60

Fragment table for sample 11 : A22-35

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	2,033	94.0	60.3
28S	3,186	3,691	3.6	2.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Electropherogram Summary Continued ...**Overall Results for sample 12 : A22-38**

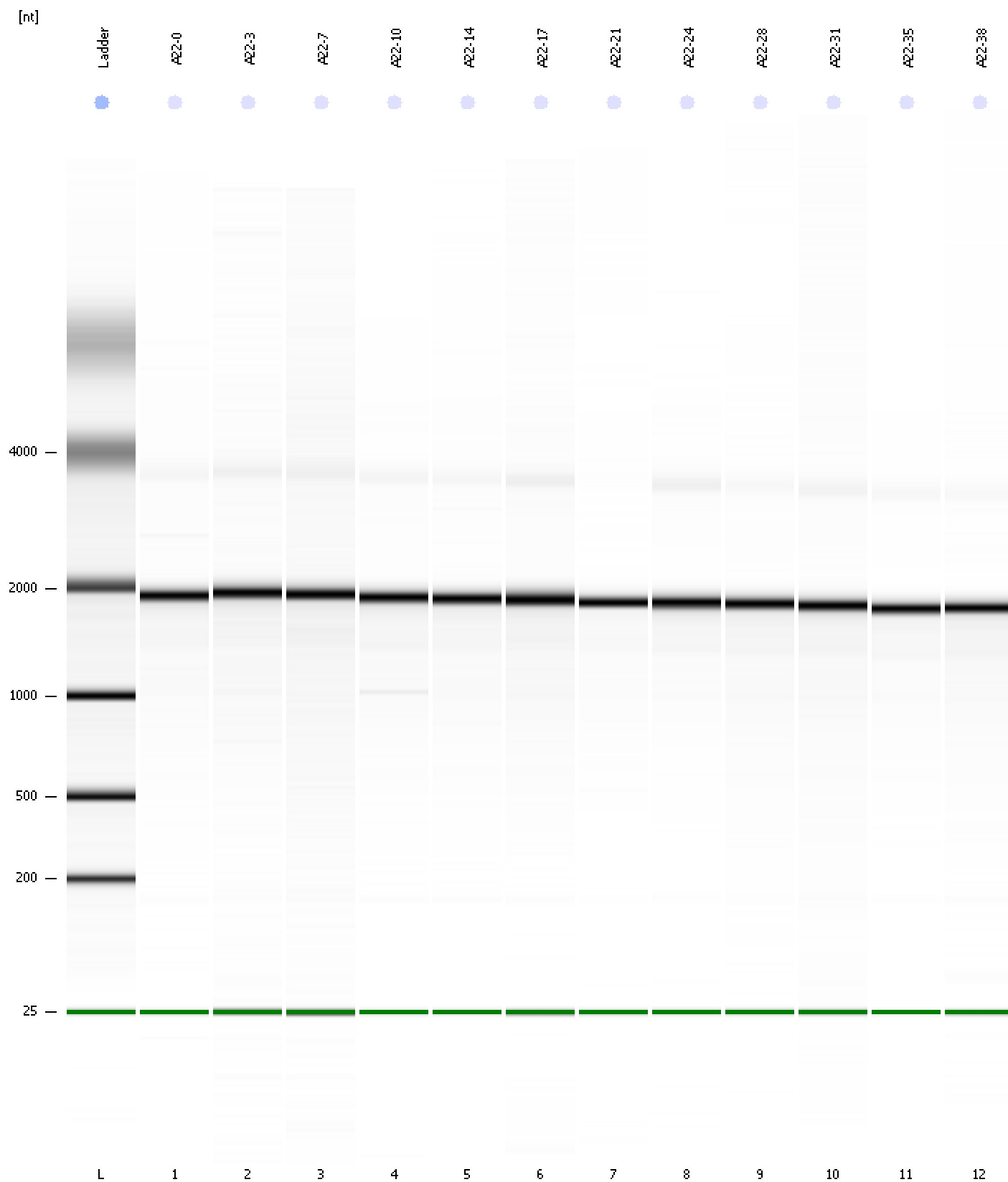
RNA Area:	52.7	RNA Integrity Number (RIN):	8.6 (B.02.07, Anomaly Threshold(s) manually adapted)
RNA Concentration:	26 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
		Result Flagging Label:	RIN: 8.60

Fragment table for sample 12 : A22-38

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,556	2,076	32.9	62.4
28S	3,258	3,590	0.6	1.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad

Created: 4/5/2013 2:26:27 PM
Modified: 4/5/2013 4:33:26 PM

Gel Image

Assay Class: Eukaryote Total RNA Nano Created: 4/5/2013 2:26:27 PM
 Data Path: C:\...040513_RNA_Nano_Tot_Euk_Stanton-Geddes-RNA_Sample_001_1.xad Modified: 4/5/2013 4:33:26 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time Stamp	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		4/5/2013 2:50:12 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2013-04-05\2100 expert_Eukaryote Total RNA Nano_DE24802438_2013-04-05_14-26-27.xad)		Instrument	Run		4/5/2013 2:26:28 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Product Number : G2938B		Instrument	Run		4/5/2013 2:26:28 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Name :		Instrument	Run		4/5/2013 2:26:28 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Vendor : Agilent Technologies		Instrument	Run		4/5/2013 2:26:28 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Serial# : DE24802438		Instrument	Run		4/5/2013 2:26:28 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Firmware : C.01.069		Instrument	Run		4/5/2013 2:26:28 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03
Cartridge : Electrode		Instrument	Run		4/5/2013 2:26:28 PM	(GMT --06:00) Central Standard Time	BMGC	BMGC-AAC36D7 D03