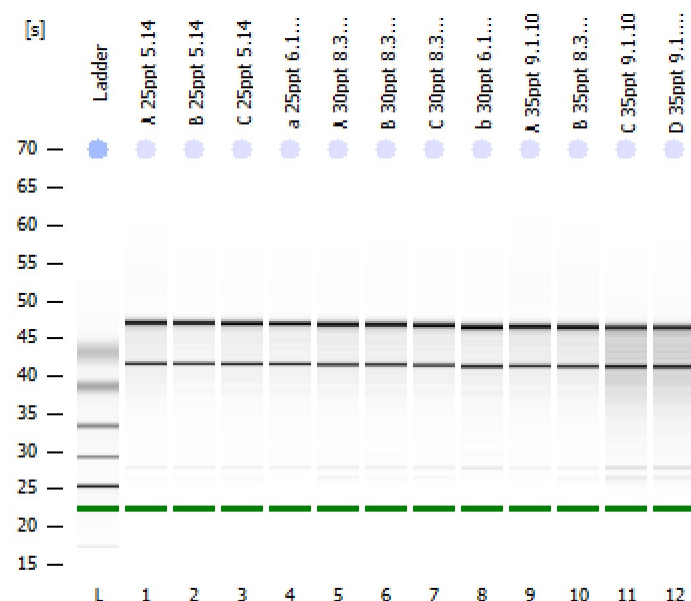


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electrophoresis File Run SummaryInstrument Information:

Instrument Name: DE04105508
Serial#: DE04105508

Firmware: C.01.069
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:

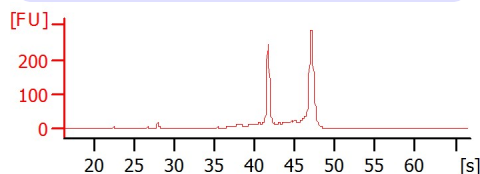
Chip Lot #:

Reagent Kit Lot #:

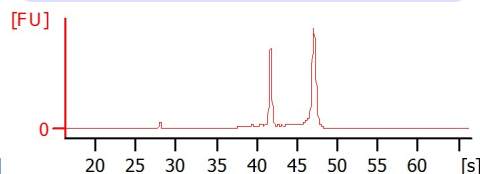
Chip Comments:

A 25ppt 5.14

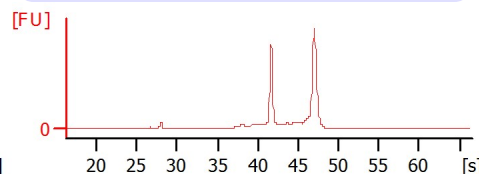
RIN: 8.90

**B 25ppt 5.14**

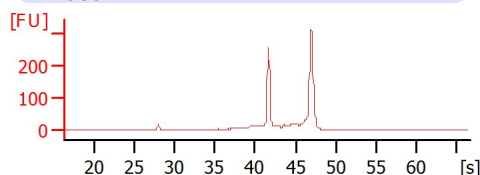
RIN: 9.40

**C 25ppt 5.14**

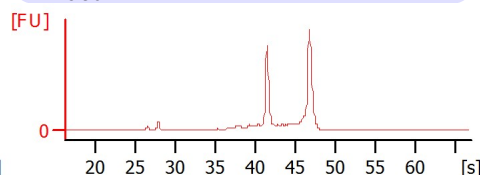
RIN: 9

**a 25ppt 6.16.08**

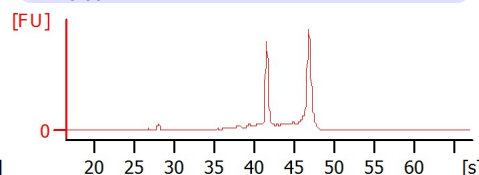
RIN: 8.90

**A 30ppt 8.31.10**

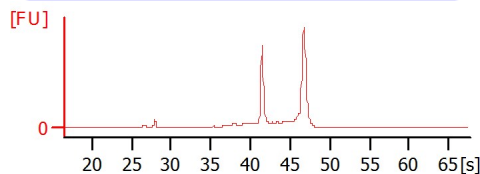
RIN: 8.90

**B 30ppt 8.31.10**

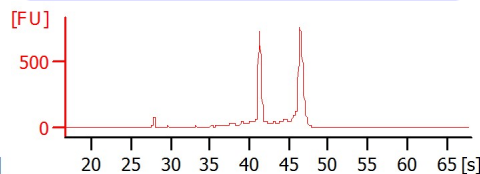
RIN: 8.80

**C 30ppt 8.31.10**

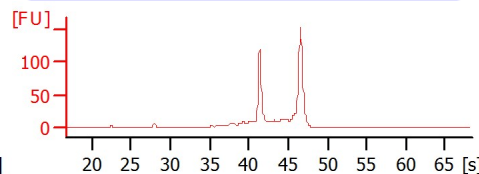
RIN: 9.10

**b 30ppt 6.16.08**

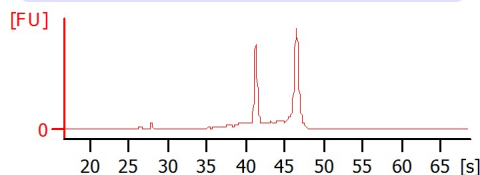
RIN: 8.80

**A 35ppt 9.1.10**

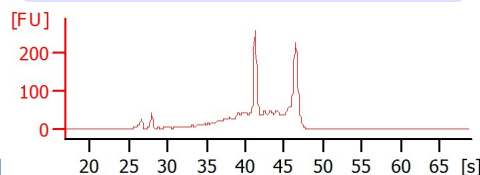
RIN: 8.80

**B 35ppt 8.31.10**

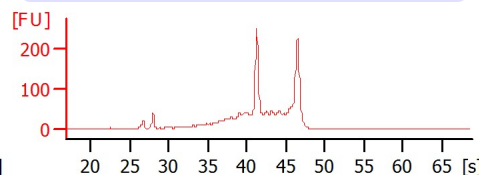
RIN: 8.80

**C 35ppt 9.1.10**

RIN: 7

**D 35ppt 9.1.10**

RIN: 7



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Stat Result Label	Result Color
		us	
A 25ppt 5.14		✓ RIN: 8.90	
B 25ppt 5.14		✓ RIN: 9.40	
C 25ppt 5.14		✓ RIN:9	
a 25ppt 6.16.08		✓ RIN: 8.90	
A 30ppt 8.31.10		✓ RIN: 8.90	
B 30ppt 8.31.10		✓ RIN: 8.80	
C 30ppt 8.31.10		✓ RIN: 9.10	
b 30ppt 6.16.08		✓ RIN: 8.80	
A 35ppt 9.1.10		✓ RIN: 8.80	
B 35ppt 8.31.10		✓ RIN: 8.80	
C 35ppt 9.1.10		✓ RIN:7	
D 35ppt 9.1.10		✓ RIN:7	
Ladder		✓ All Other Samples	

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ μ l] : 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

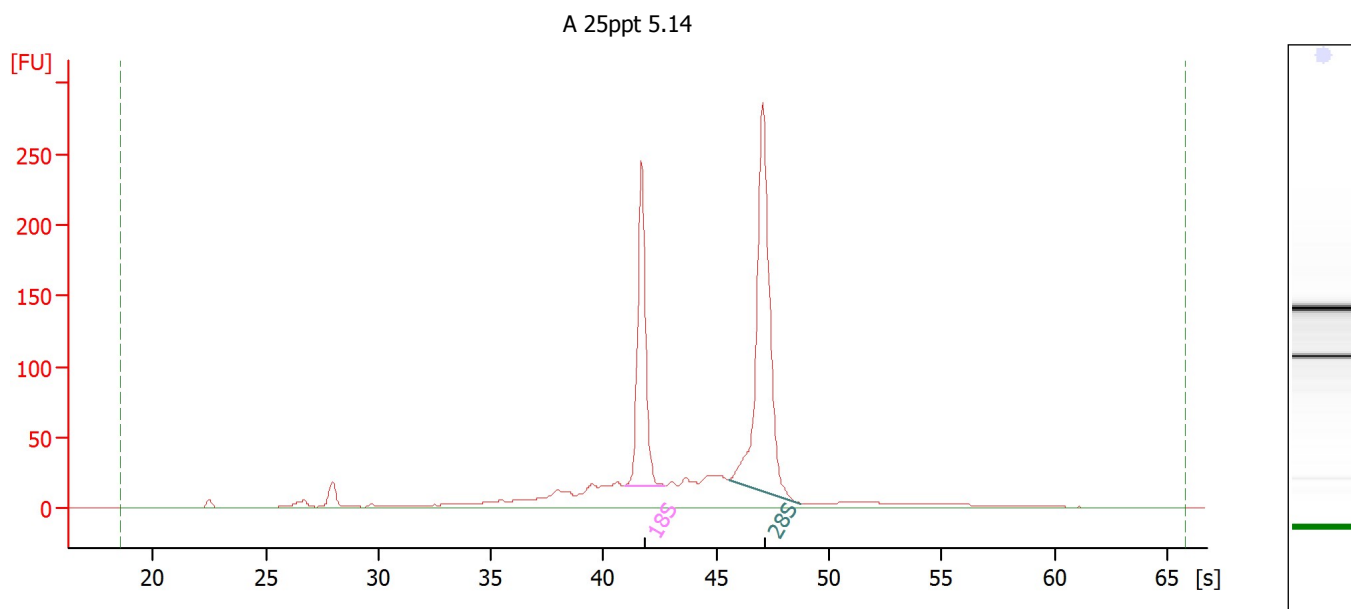
Filter Width [s] : 0.5
Polynomial Order : 4

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:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electropherogram Summary**Overall Results for sample 1 : A 25ppt 5.14**

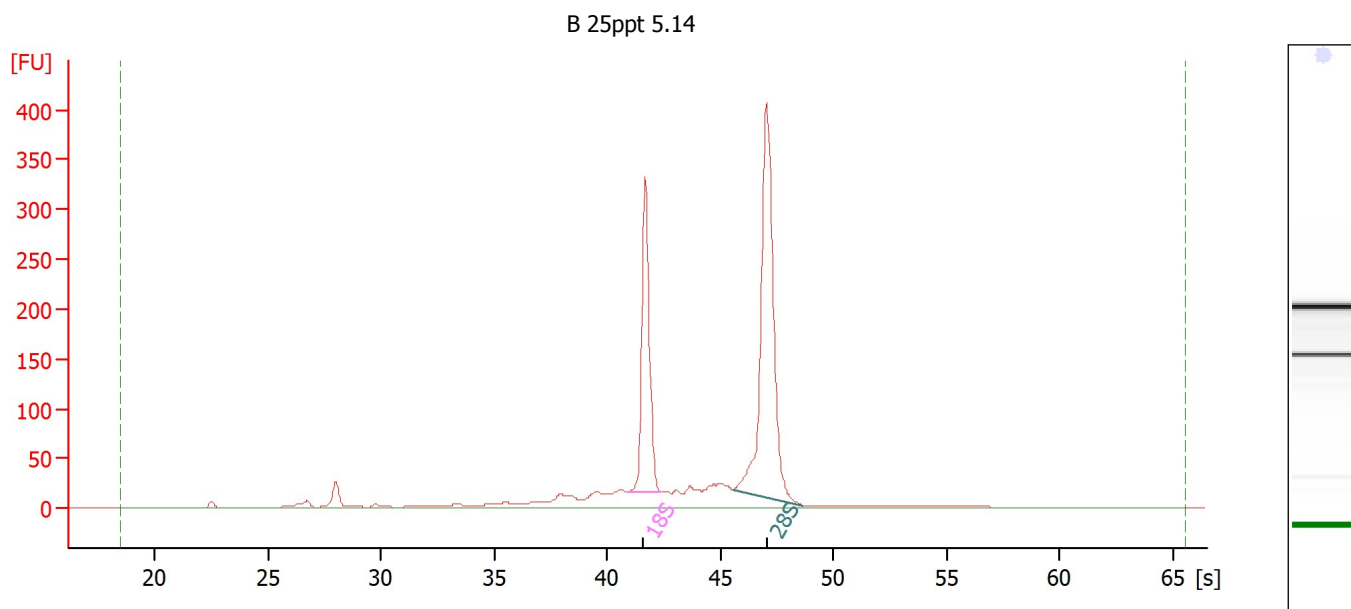
RNA Area:	1,179.9	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	675 ng/μl	Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.90

Fragment table for sample 1 : A 25ppt 5.14

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.90	42.76	223.9	19.0
28S	45.52	48.72	394.6	33.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 2 : B 25ppt 5.14**

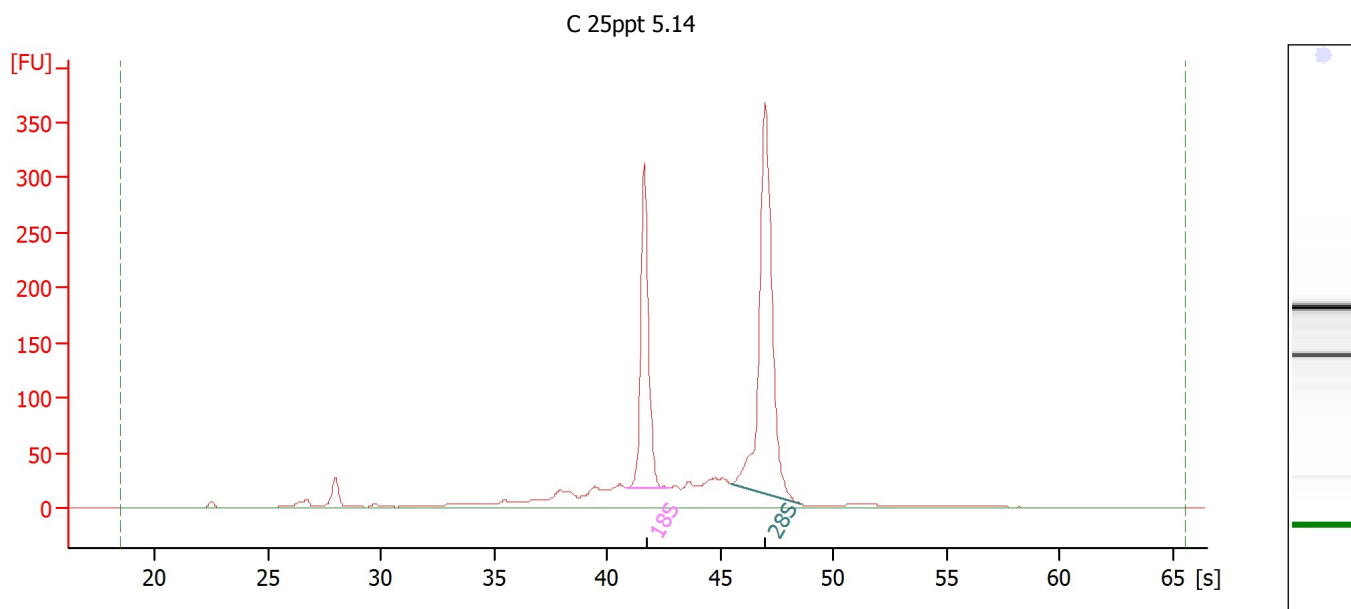
RNA Area:	1,387.9	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	794 ng/μl	Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.40

Fragment table for sample 2 : B 25ppt 5.14

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.87	42.39	296.3	21.3
28S	45.57	48.66	533.6	38.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 3 : C 25ppt 5.14**

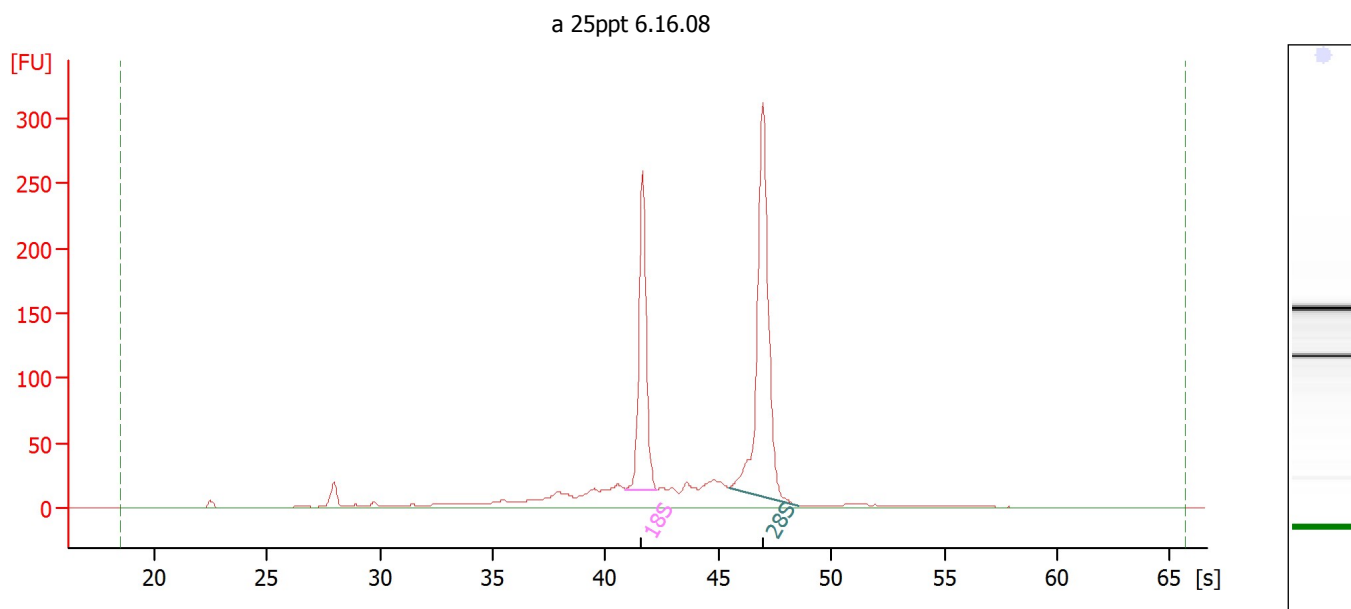
RNA Area:	1,422.3	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	814 ng/μl	Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN:9

Fragment table for sample 3 : C 25ppt 5.14

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.82	42.72	287.0	20.2
28S	45.47	48.56	494.8	34.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 4 : a 25ppt 6.16.08**

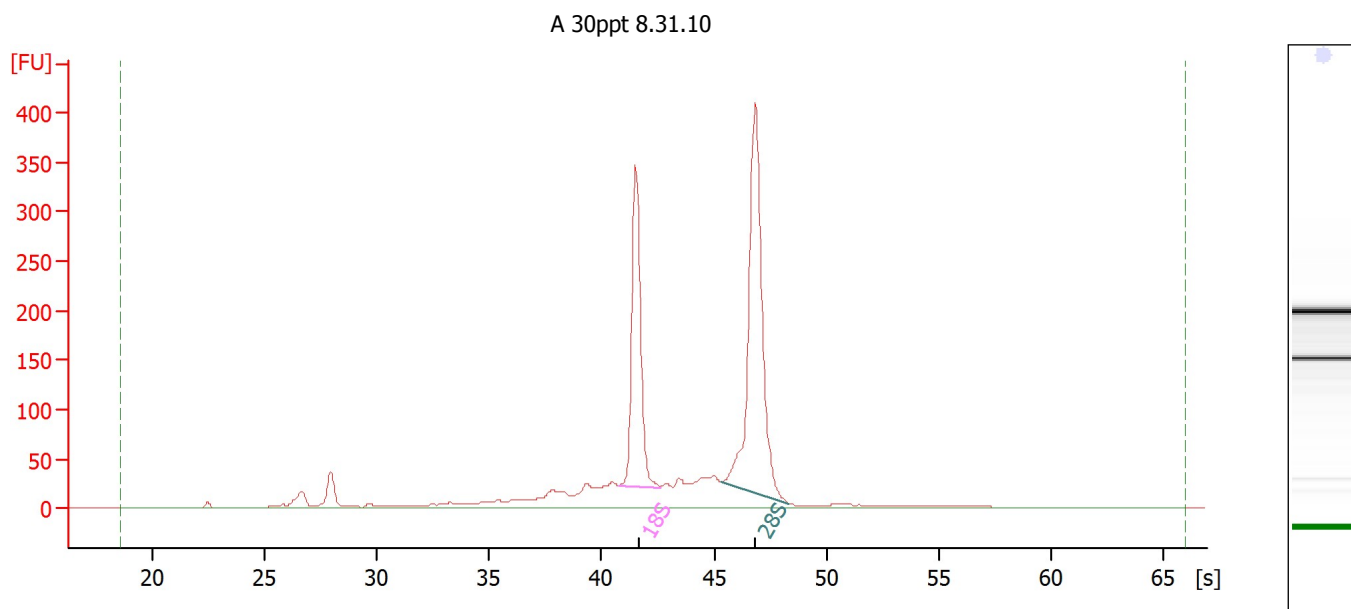
RNA Area: 1,104.5 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 632 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 8.90

Fragment table for sample 4 : a 25ppt 6.16.08

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.86	42.29	225.5	20.4
28S	45.48	48.52	378.2	34.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 5 : A 30ppt 8.31.10**

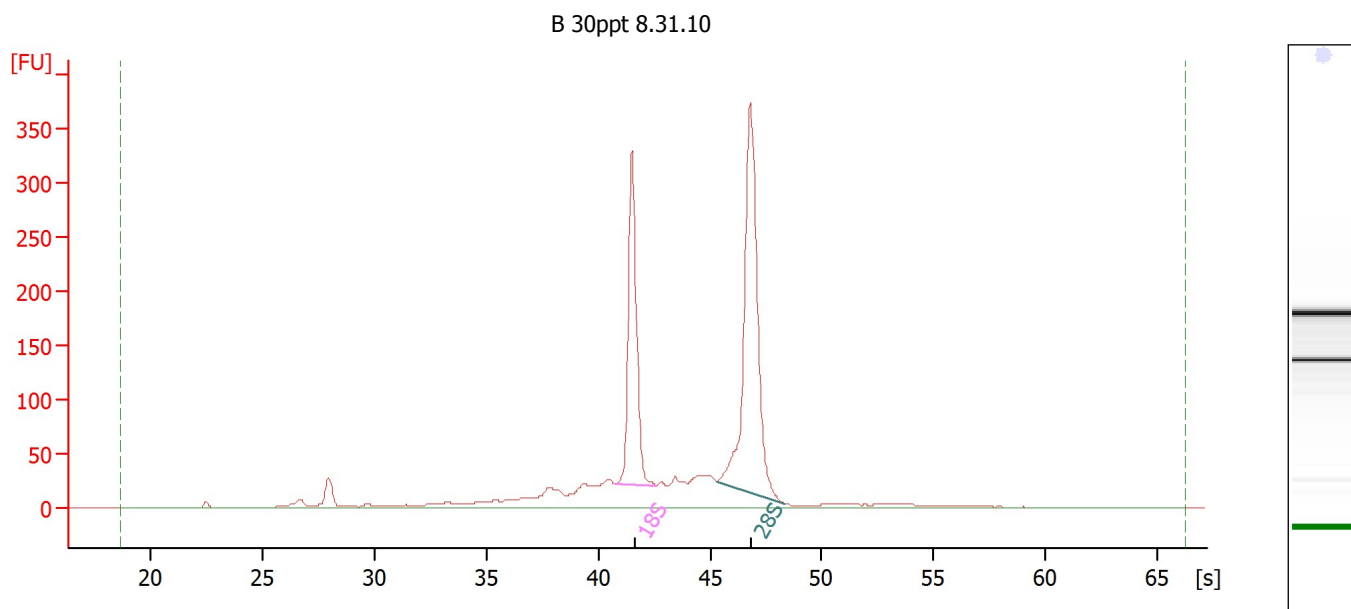
RNA Area: 1,711.7 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 979 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 8.90

Fragment table for sample 5 : A 30ppt 8.31.10

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.80	42.61	341.3	19.9
28S	45.33	48.34	580.8	33.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 6 : B 30ppt 8.31.10**

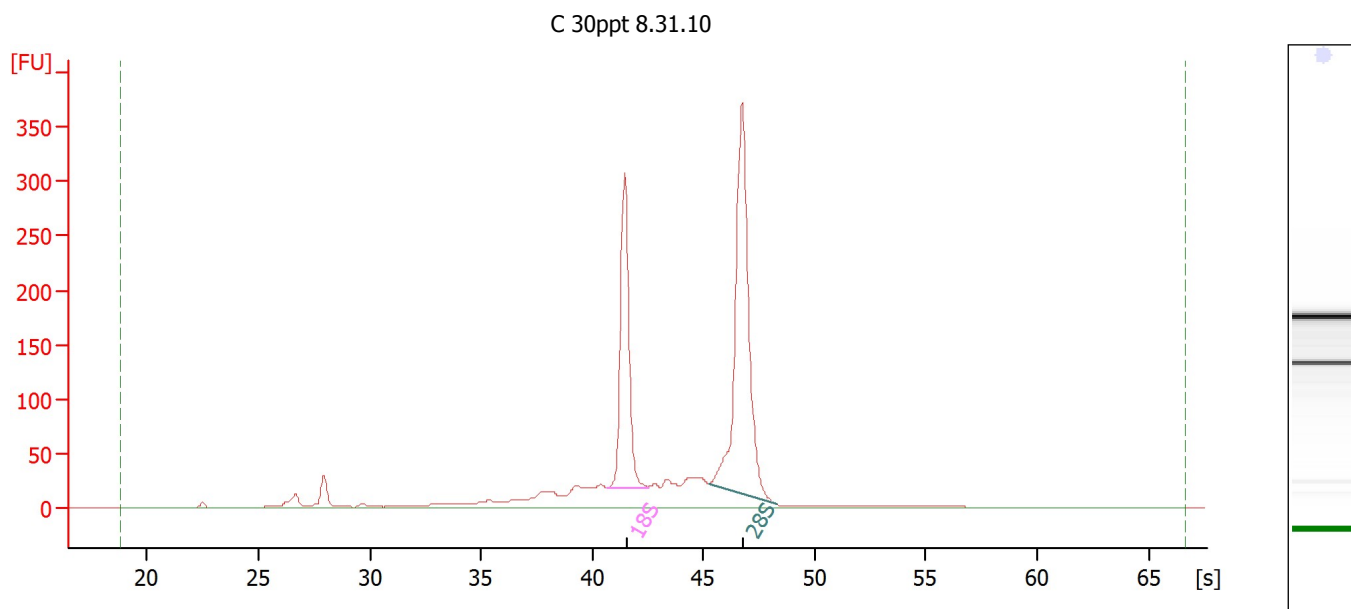
RNA Area:	1,580.1	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	904 ng/μl	Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.80

Fragment table for sample 6 : B 30ppt 8.31.10

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.78	42.60	313.3	19.8
28S	45.34	48.36	527.7	33.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 7 : C 30ppt 8.31.10**

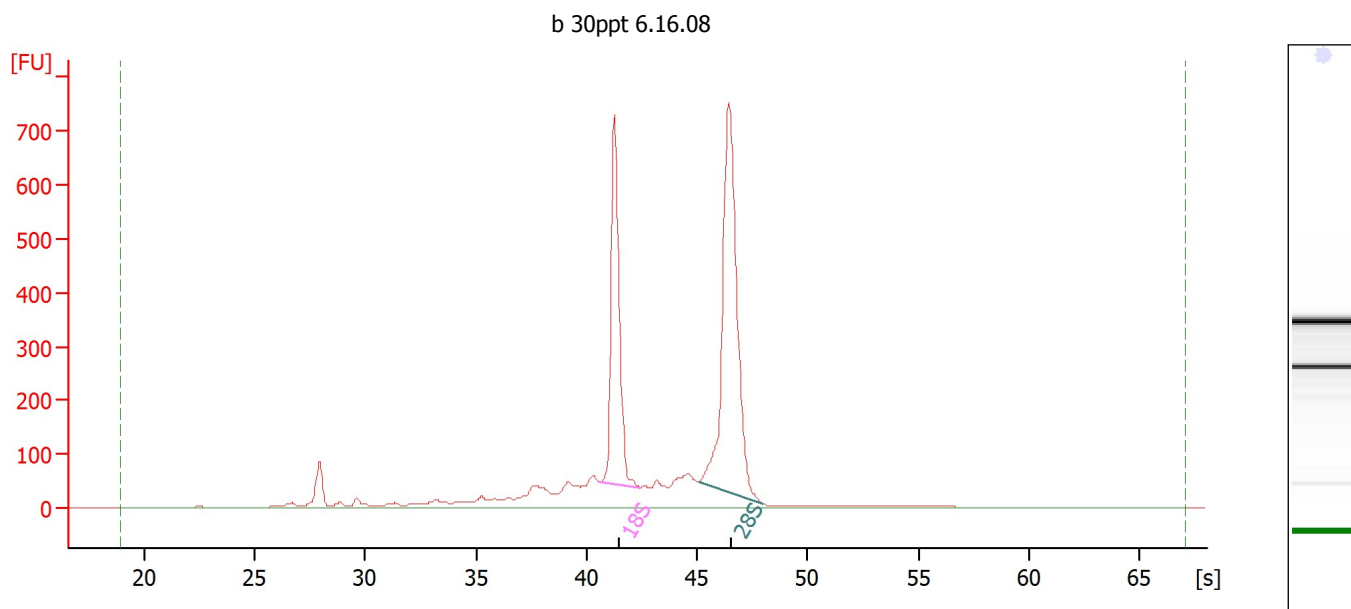
RNA Area:	1,488.2	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	851 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.10

Fragment table for sample 7 : C 30ppt 8.31.10

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.65	42.54	296.7	19.9
28S	45.24	48.28	525.6	35.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 8 : b 30ppt 6.16.08**

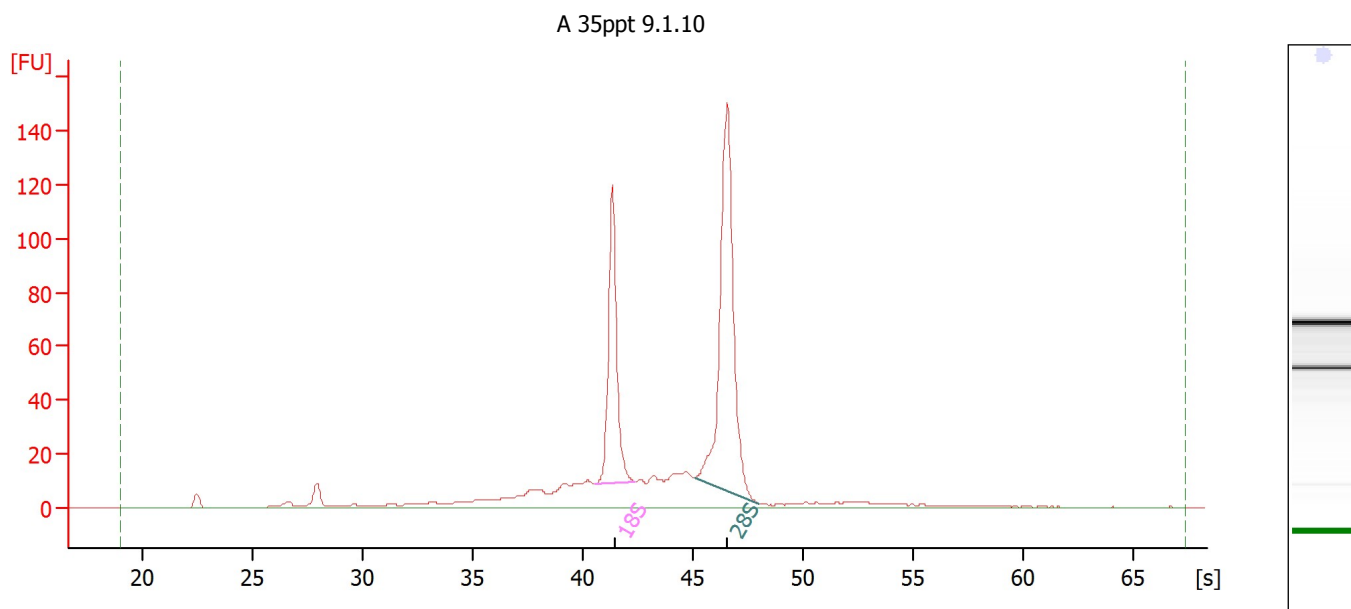
RNA Area: 3,424.4 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 1,959 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 8.80

Fragment table for sample 8 : b 30ppt 6.16.08

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.58	42.42	730.8	21.3
28S	45.05	48.01	1,175.0	34.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 9 : A 35ppt 9.1.10**

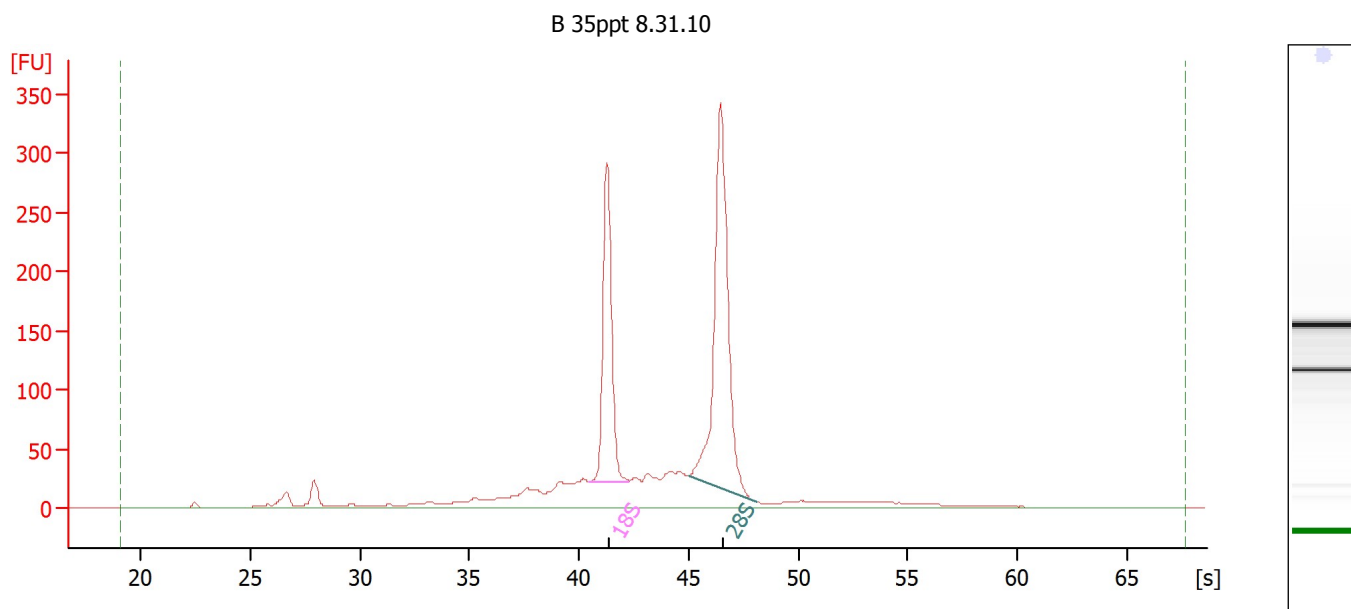
RNA Area:	631.7	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	361 ng/μl	Result Flagging Color:	<div style="background-color: #ccccff; width: 30px; height: 15px; display: inline-block;"></div>
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.80

Fragment table for sample 9 : A 35ppt 9.1.10

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.56	42.36	117.4	18.6
28S	45.10	47.98	214.7	34.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 10 : B 35ppt 8.31.10**

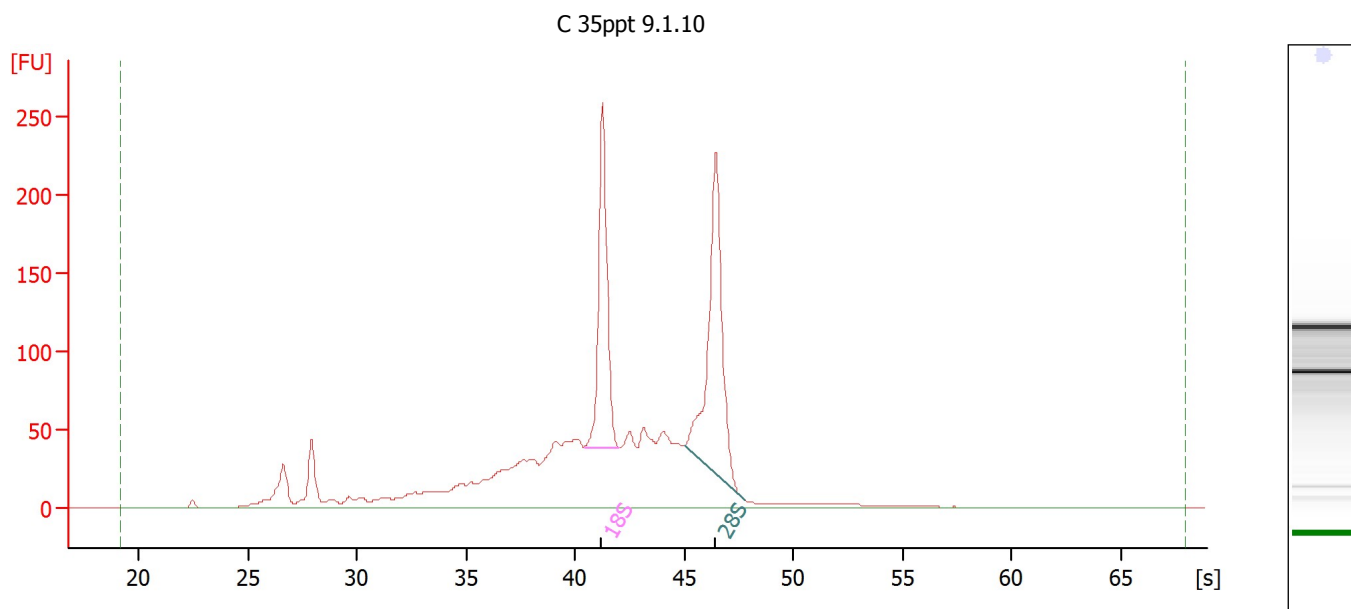
RNA Area:	1,582.5	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	905 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.80

Fragment table for sample 10 : B 35ppt 8.31.10

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.49	42.30	288.0	18.2
28S	45.00	48.09	507.3	32.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 11 : C 35ppt 9.1.10**

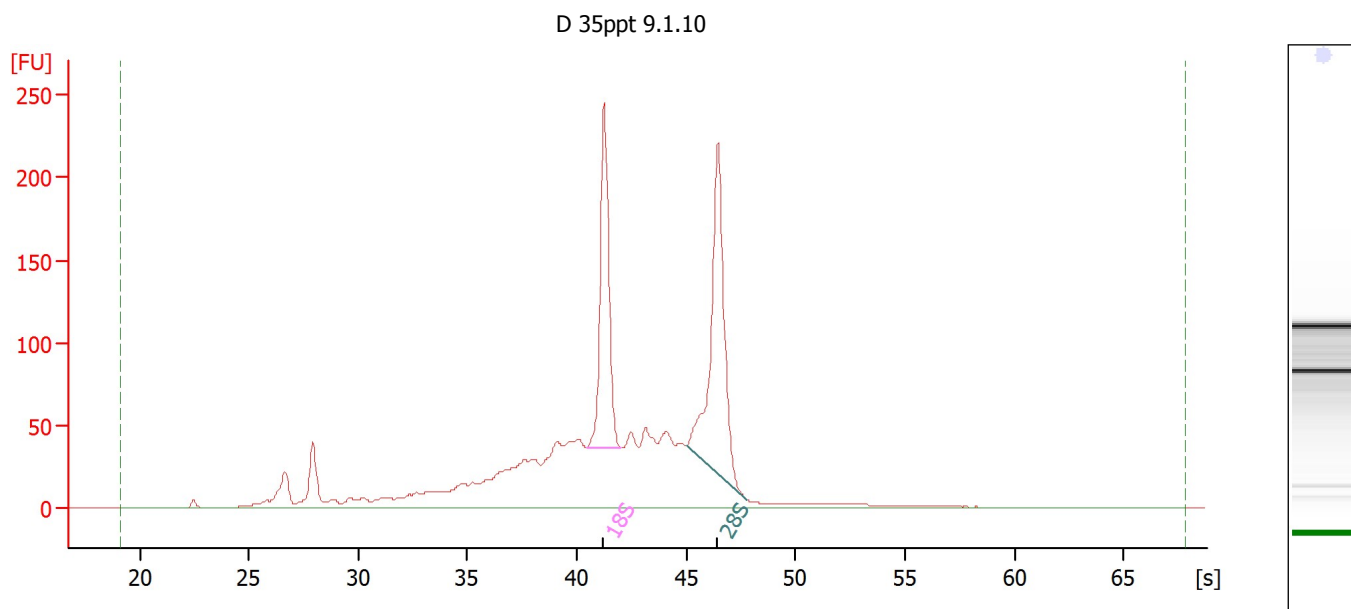
RNA Area: 1,901.8 RNA Integrity Number (RIN): 7 (B.02.08)
RNA Concentration: 1,088 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN:7

Fragment table for sample 11 : C 35ppt 9.1.10

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.42	42.05	235.5	12.4
28S	45.00	47.76	323.5	17.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Electropherogram Summary Continued ...**Overall Results for sample 12 : D 35ppt 9.1.10**

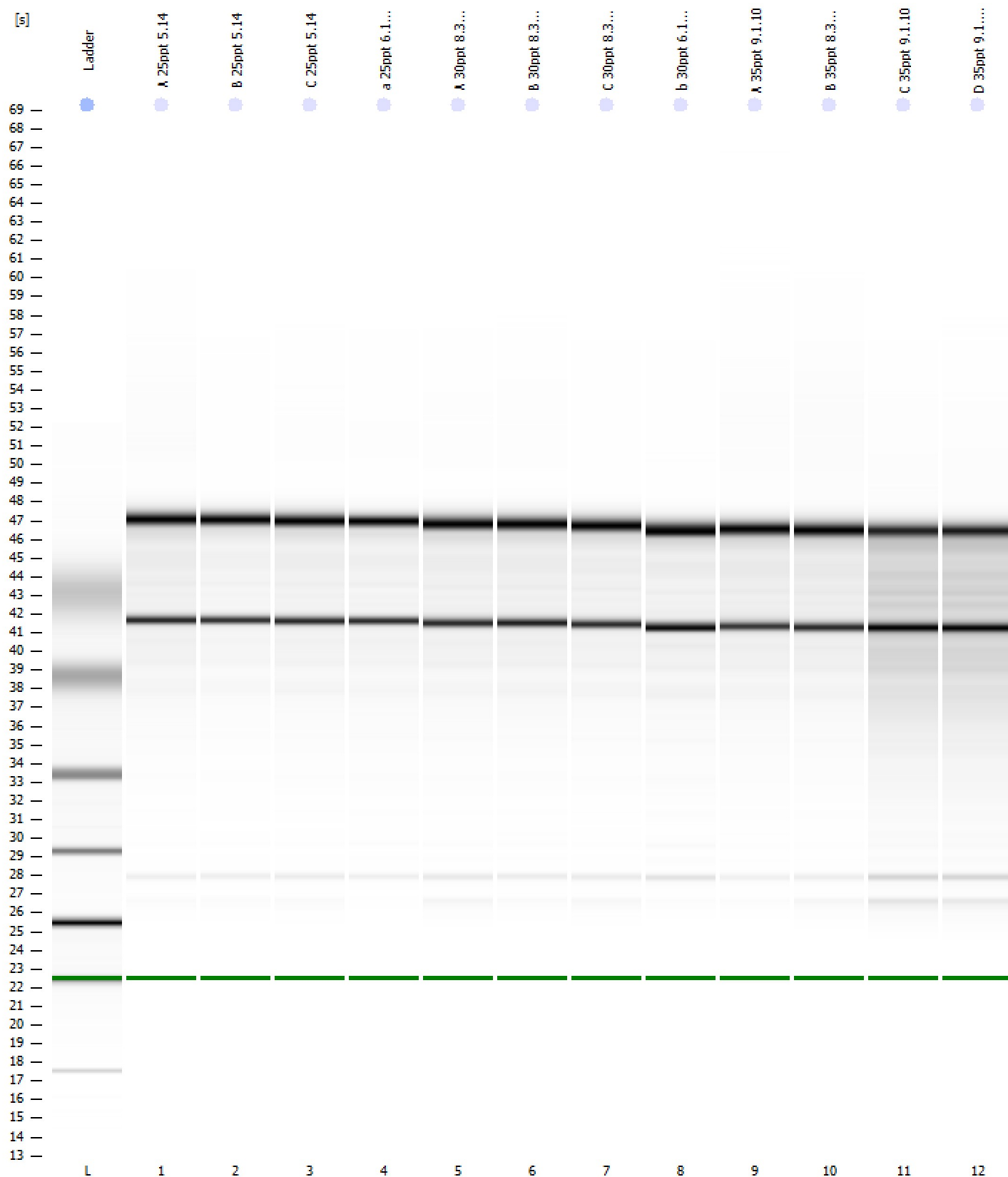
RNA Area:	1,788.0	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	1,023 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN:7

Fragment table for sample 12 : D 35ppt 9.1.10

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.43	42.05	223.5	12.5
28S	45.00	47.75	308.1	17.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad

Created: 6/6/2012 2:10:07 PM
Modified: 6/6/2012 2:34:02 PM

Gel Image

Assay Class: Eukaryote Total RNA Nano Created: 6/6/2012 2:10:07 PM
 Data Path: C:\...Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad Modified: 6/6/2012 2:34:02 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 2 (Number of wells acquired: 13)		Instrument	Run		6/6/2012 2:33:59 PM	(GMT --04:00) Eastern Standard Time	Lcohen49	HBOI
Run started on port 2 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2012-06-06\2100 expert_Eukaryote Total RNA Nano_DE04105508_2012-06-06_14-10-08.xad)		Instrument	Run		6/6/2012 2:10:13 PM	(GMT --04:00) Eastern Standard Time	Lcohen49	HBOI
Product Number : G2938C		Instrument	Run		6/6/2012 2:10:13 PM	(GMT --04:00) Eastern Standard Time	Lcohen49	HBOI
Name :		Instrument	Run		6/6/2012 2:10:13 PM	(GMT --04:00) Eastern Standard Time	Lcohen49	HBOI
Vendor : Agilent Technologies		Instrument	Run		6/6/2012 2:10:13 PM	(GMT --04:00) Eastern Standard Time	Lcohen49	HBOI
Serial# : DE04105508		Instrument	Run		6/6/2012 2:10:13 PM	(GMT --04:00) Eastern Standard Time	Lcohen49	HBOI
Firmware : C.01.069		Instrument	Run		6/6/2012 2:10:13 PM	(GMT --04:00) Eastern Standard Time	Lcohen49	HBOI
Cartridge : Electrode		Instrument	Run		6/6/2012 2:10:13 PM	(GMT --04:00) Eastern Standard Time	Lcohen49	HBOI