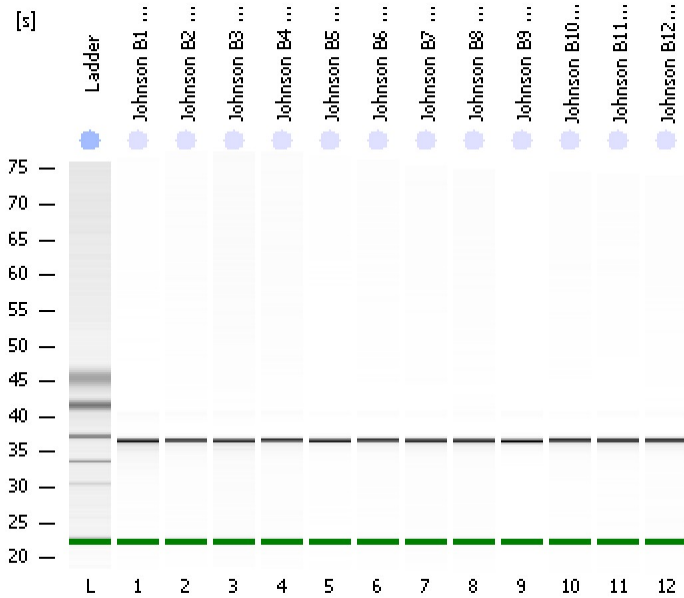


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
Modified: 4/25/2013 4:48:47 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

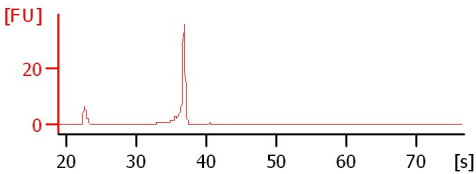
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

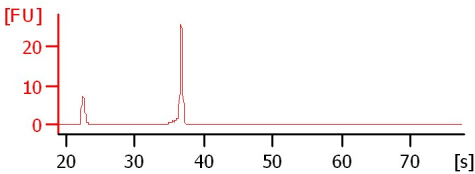
Chip Information:

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

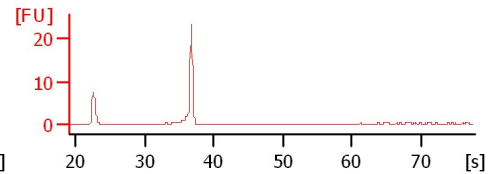
Johnson B1 Total RNA 1:2
RIN: 9.70



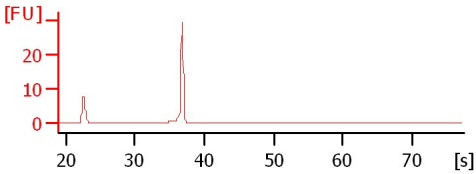
Johnson B2 Total RNA 1:2
RIN: 10



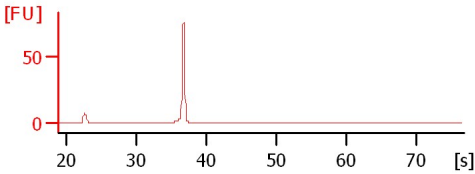
Johnson B3 Total RNA 1:2
RIN: 9.80



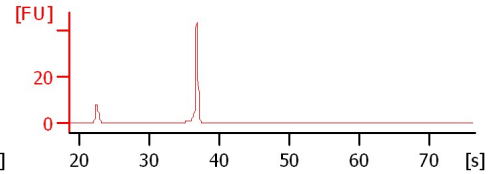
Johnson B4 Total RNA 1:2
RIN: 9.80



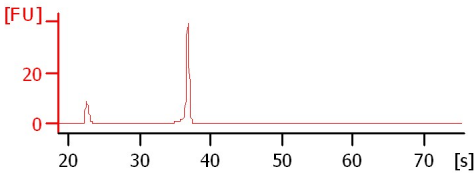
Johnson B5 Total RNA 1:2
RIN: 10



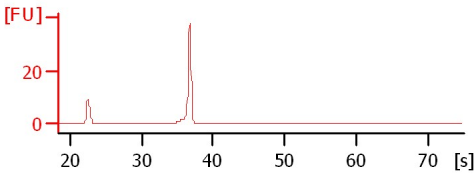
Johnson B6 Total RNA 1:2
RIN: 10



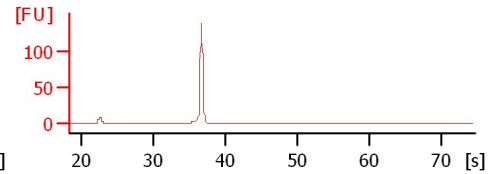
Johnson B7 Total RNA 1:2
RIN: 10



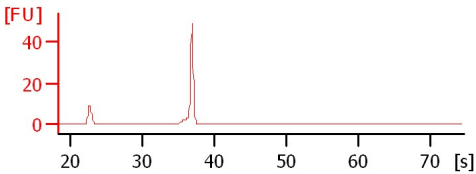
Johnson B8 Total RNA 1:2
RIN: 10



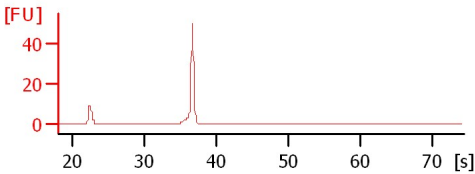
Johnson B9 Total RNA 1:2
RIN: 10



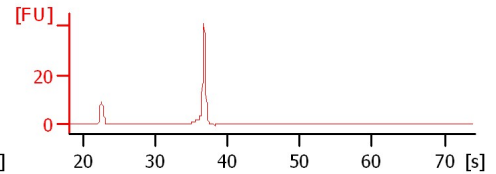
Johnson B10 Total RNA 1:2
RIN: 10



Johnson B11 Total RNA 1:2
RIN: 10



Johnson B12 Total RNA 1:2
RIN: 10



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
 Modified: 4/25/2013 4:48:47 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Johnson B1 Total RNA 1:2		✓	RIN: 9.70	
Johnson B2 Total RNA 1:2		✓	RIN:10	
Johnson B3 Total RNA 1:2		✓	RIN: 9.80	
Johnson B4 Total RNA 1:2		✓	RIN: 9.80	
Johnson B5 Total RNA 1:2		✓	RIN:10	
Johnson B6 Total RNA 1:2		✓	RIN:10	
Johnson B7 Total RNA 1:2		✓	RIN:10	
Johnson B8 Total RNA 1:2		✓	RIN:10	
Johnson B9 Total RNA 1:2		✓	RIN:10	
Johnson B10 Total RNA 1:2		✓	RIN:10	
Johnson B11 Total RNA 1:2		✓	RIN:10	
Johnson B12 Total RNA 1:2		✓	RIN:10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
Modified: 4/25/2013 4:48:47 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

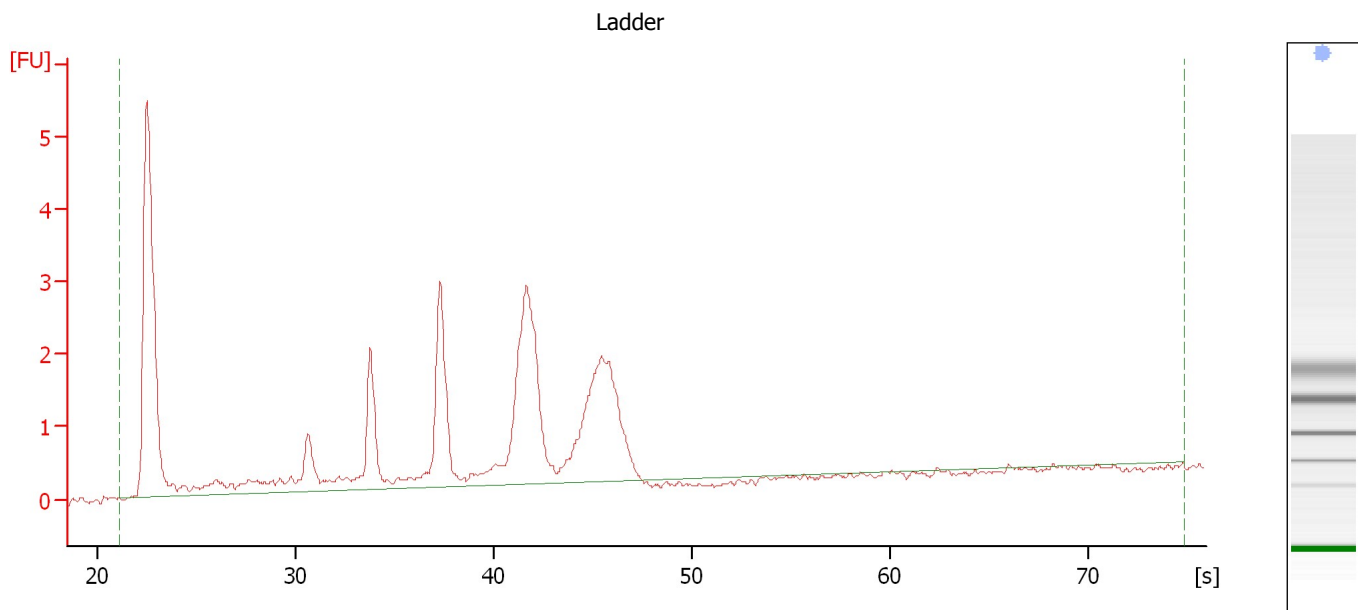
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary



Overall Results for Ladder

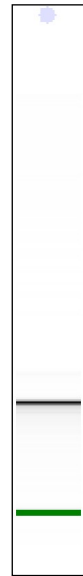
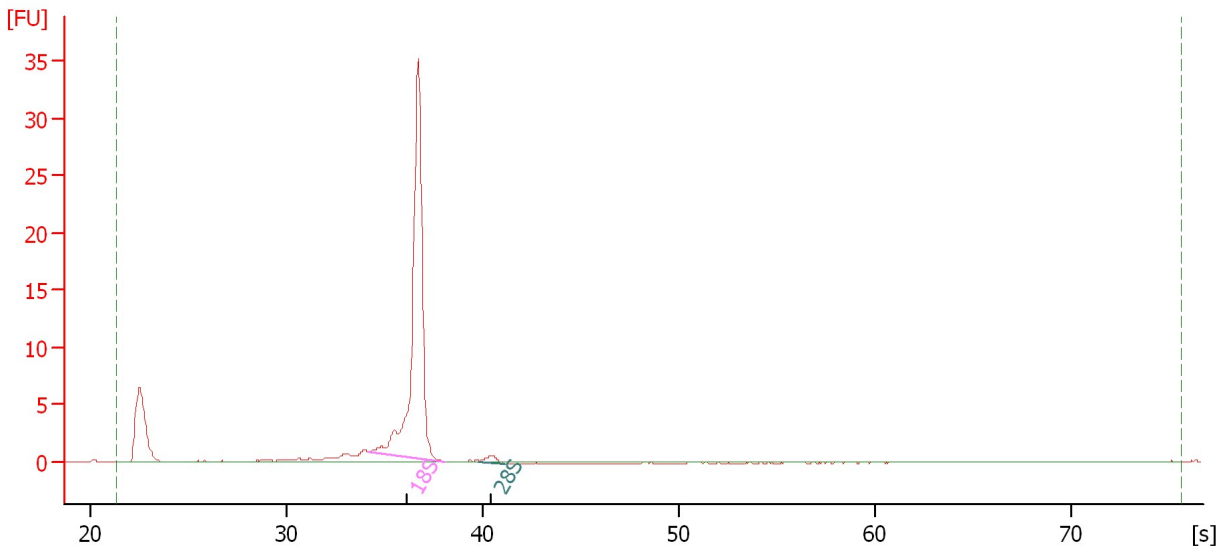
RNA Area:	30.9	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
 Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary Continued ...

Johnson B1 Total RNA 1:2



Overall Results for sample 1 : Johnson B1 Total RNA 1:2

RNA Area:	66.9	RNA Integrity Number (RIN):	9.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	324 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 9.70

Fragment table for sample 1 : Johnson B1 Total RNA 1:2

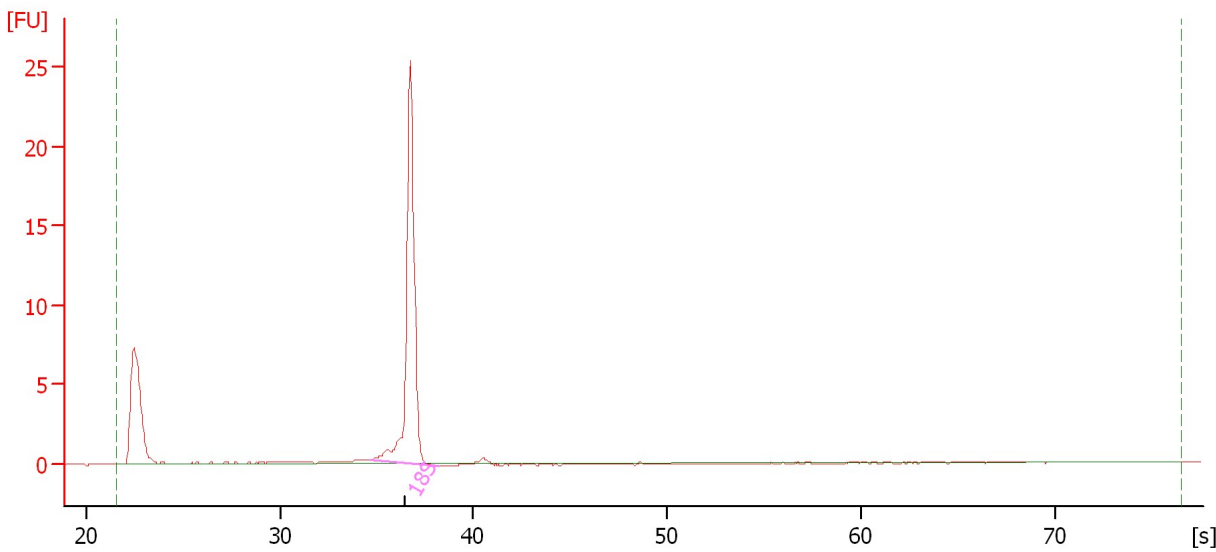
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.22	38.05	54.0	80.7
28S	39.80	41.06	0.9	1.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary Continued ...

Johnson B2 Total RNA 1:2



Overall Results for sample 2 : Johnson B2 Total RNA 1:2

RNA Area: 36.0 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 174 ng/μl
rRNA Ratio [28s / 18s]: 0.0
Result Flagging Color:
Result Flagging Label: RIN:10

Fragment table for sample 2 : Johnson B2 Total RNA 1:2

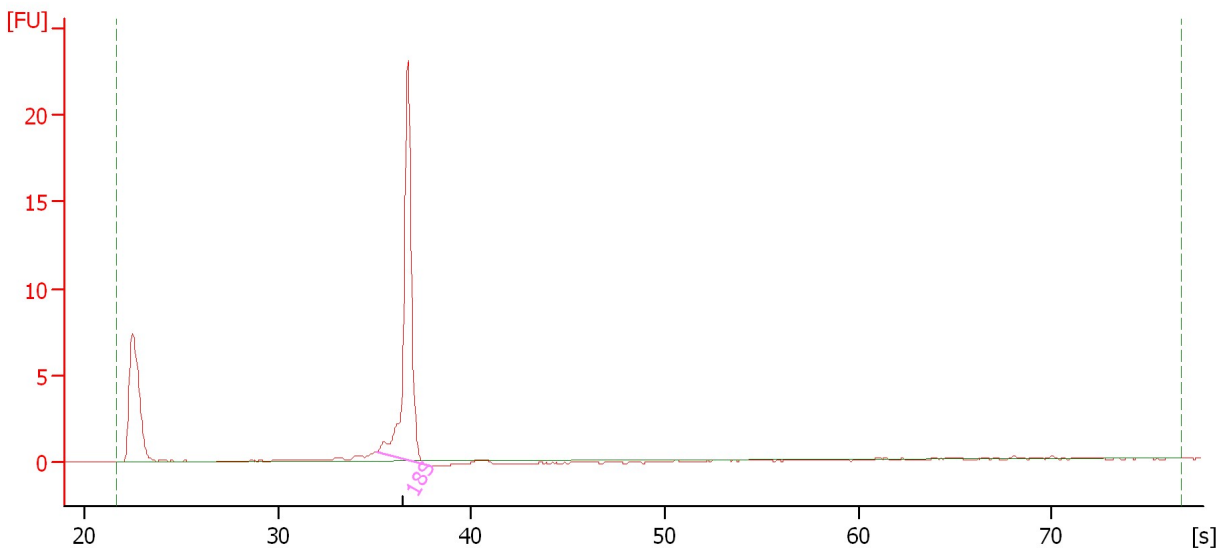
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.69	38.24	32.4	90.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
 Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary Continued ...

Johnson B3 Total RNA 1:2



Overall Results for sample 3 : Johnson B3 Total RNA 1:2

RNA Area:	33.5	RNA Integrity Number (RIN):	9.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	163 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 9.80

Fragment table for sample 3 : Johnson B3 Total RNA 1:2

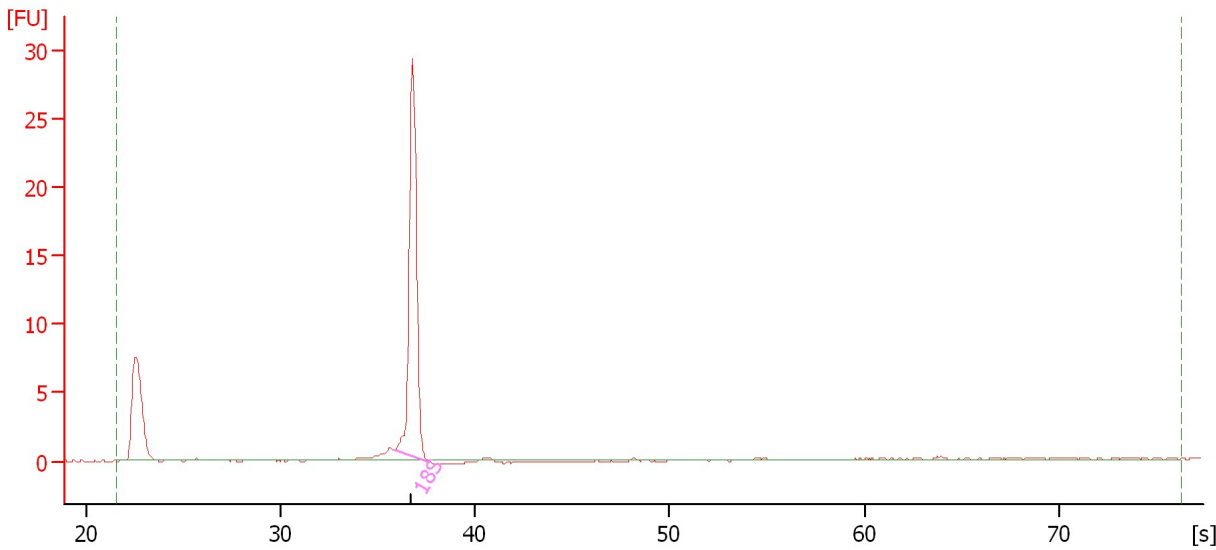
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	35.06	37.83	29.6	88.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
 Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary Continued ...

Johnson B4 Total RNA 1:2



Overall Results for sample 4 : Johnson B4 Total RNA 1:2

RNA Area:	39.8	RNA Integrity Number (RIN):	9.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	193 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 9.80

Fragment table for sample 4 : Johnson B4 Total RNA 1:2

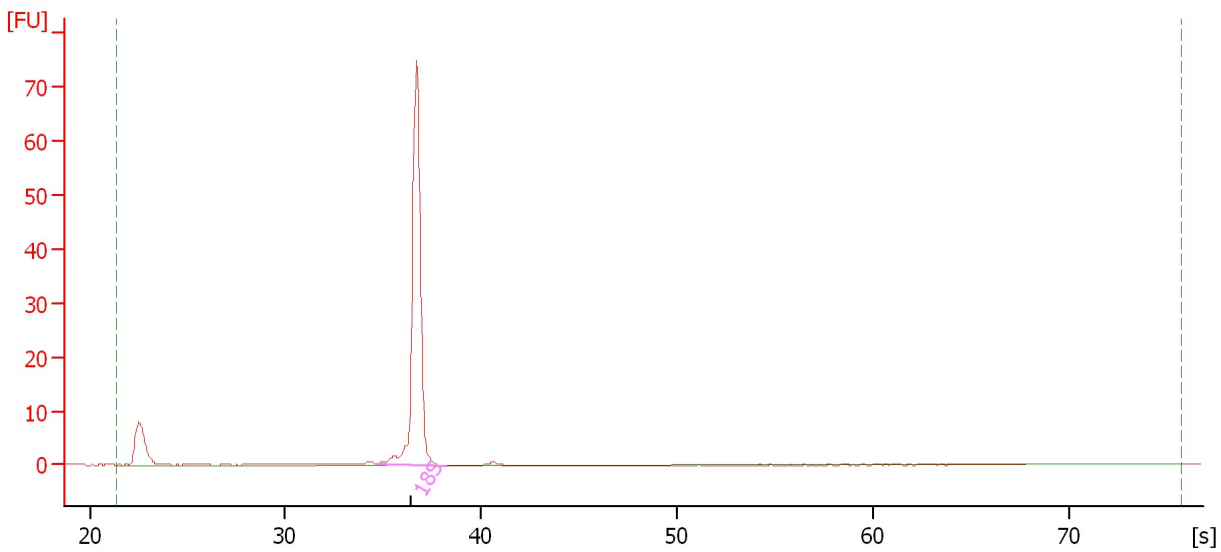
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	35.82	37.59	33.5	84.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary Continued ...

Johnson B5 Total RNA 1:2



Overall Results for sample 5 : Johnson B5 Total RNA 1:2

RNA Area:	100.8	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	489 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN:10

Fragment table for sample 5 : Johnson B5 Total RNA 1:2

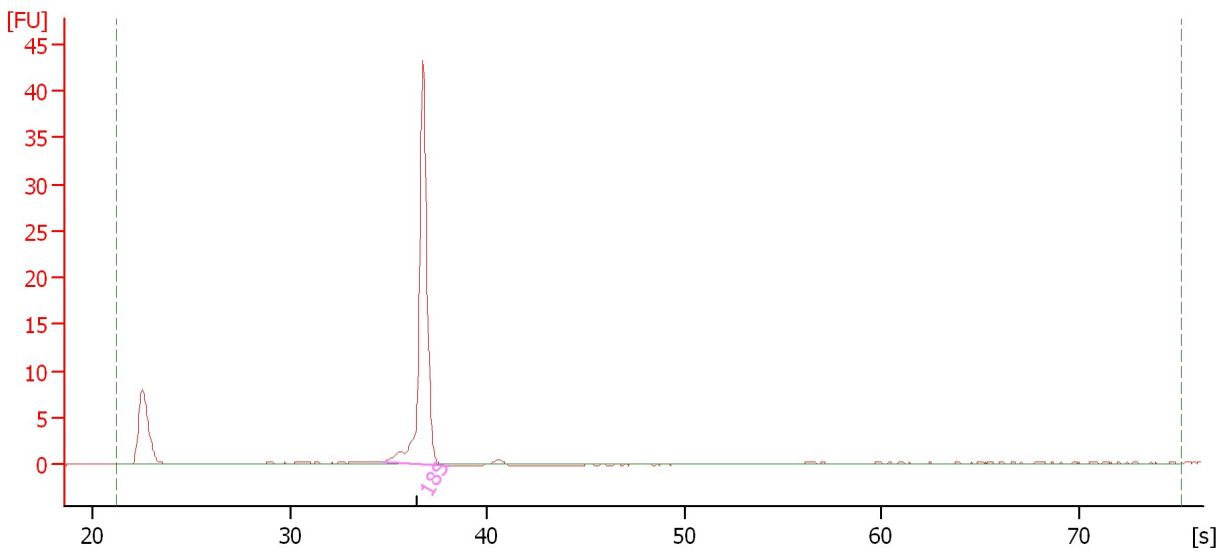
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.63	38.20	95.2	94.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary Continued ...

Johnson B6 Total RNA 1:2



Overall Results for sample 6 : Johnson B6 Total RNA 1:2

RNA Area:	57.9	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	281 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN:10

Fragment table for sample 6 : Johnson B6 Total RNA 1:2

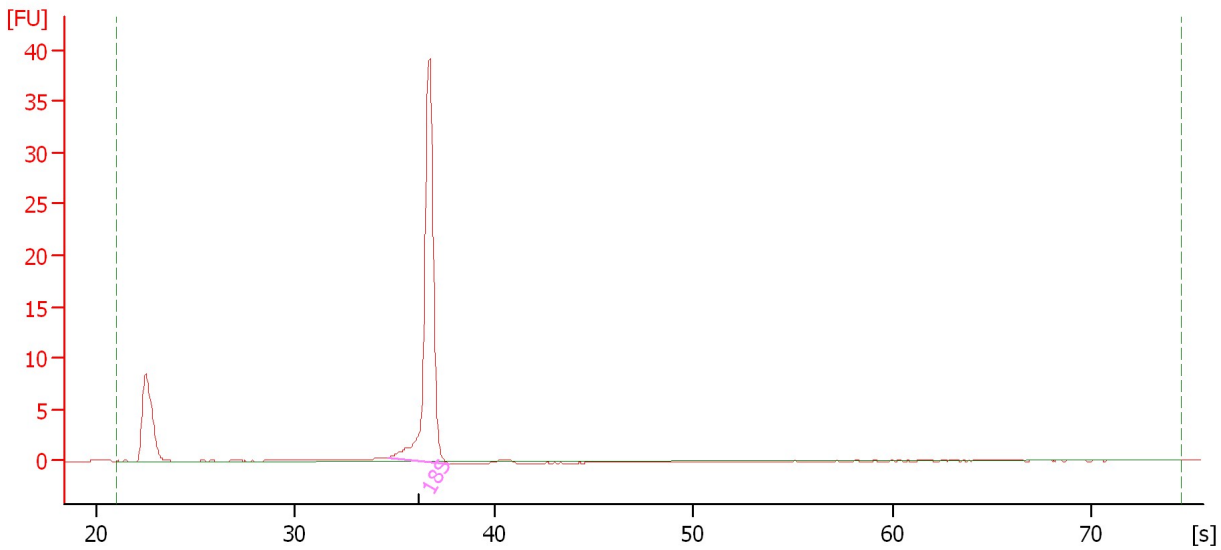
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.70	38.19	55.5	95.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary Continued ...

Johnson B7 Total RNA 1:2



Overall Results for sample 7 : Johnson B7 Total RNA 1:2

RNA Area: 57.3 RNA Integrity Number (RIN): 10 (B.02.08,
RNA Concentration: 278 ng/μl Anomaly Threshold(s)
rRNA Ratio [28s / 18s]: 0.0 manually adapted)
Result Flagging Color:
Result Flagging Label: RIN:10

Fragment table for sample 7 : Johnson B7 Total RNA 1:2

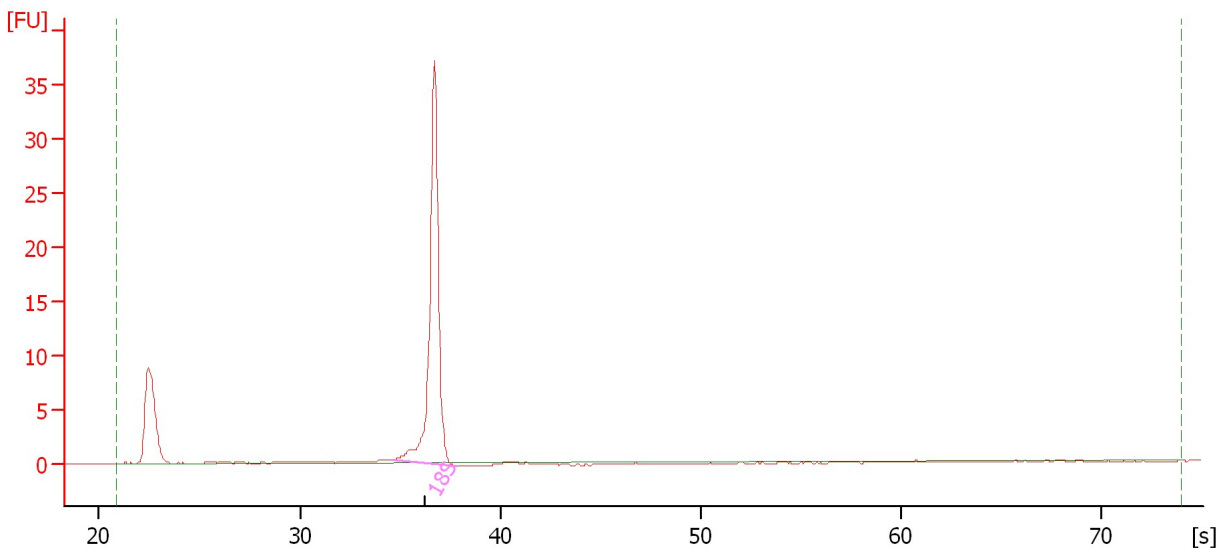
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.64	37.72	53.7	93.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary Continued ...

Johnson B8 Total RNA 1:2



Overall Results for sample 8 : Johnson B8 Total RNA 1:2

RNA Area: 52.8 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 256 ng/μl
rRNA Ratio [28s / 18s]: 0.0
Result Flagging Color:
Result Flagging Label: RIN:10

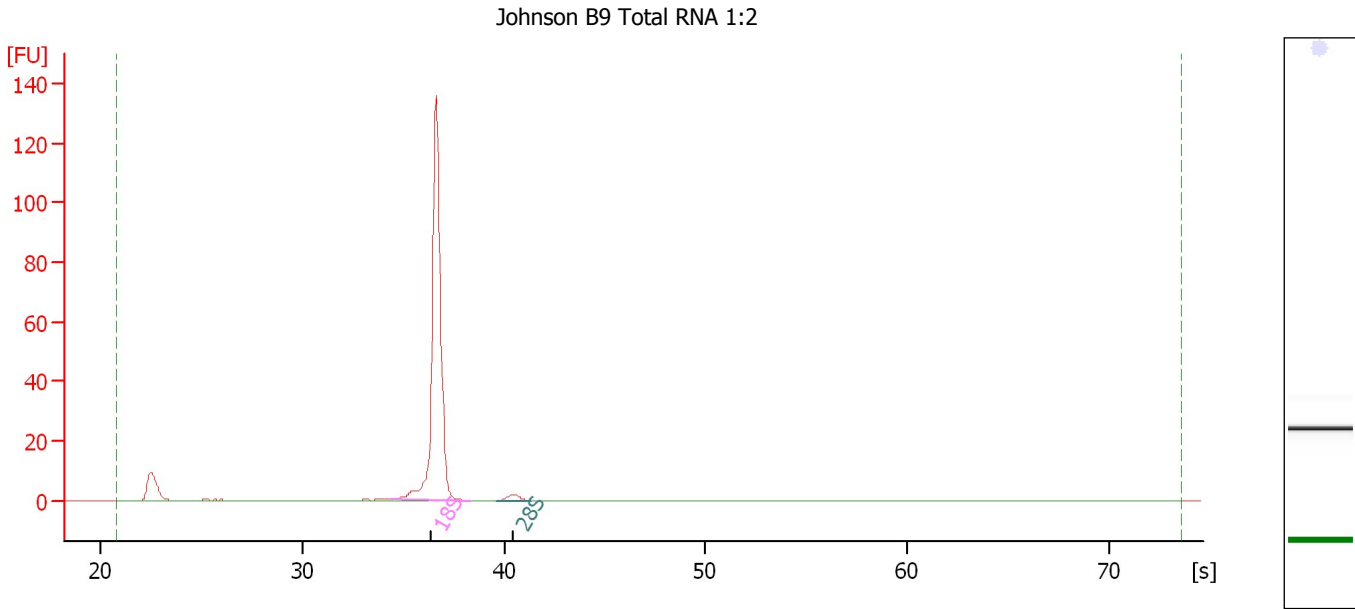
Fragment table for sample 8 : Johnson B8 Total RNA 1:2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.66	37.82	52.3	99.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
 Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Johnson B9 Total RNA 1:2

RNA Area:	192.4	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	932 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:10

Fragment table for sample 9 : Johnson B9 Total RNA 1:2

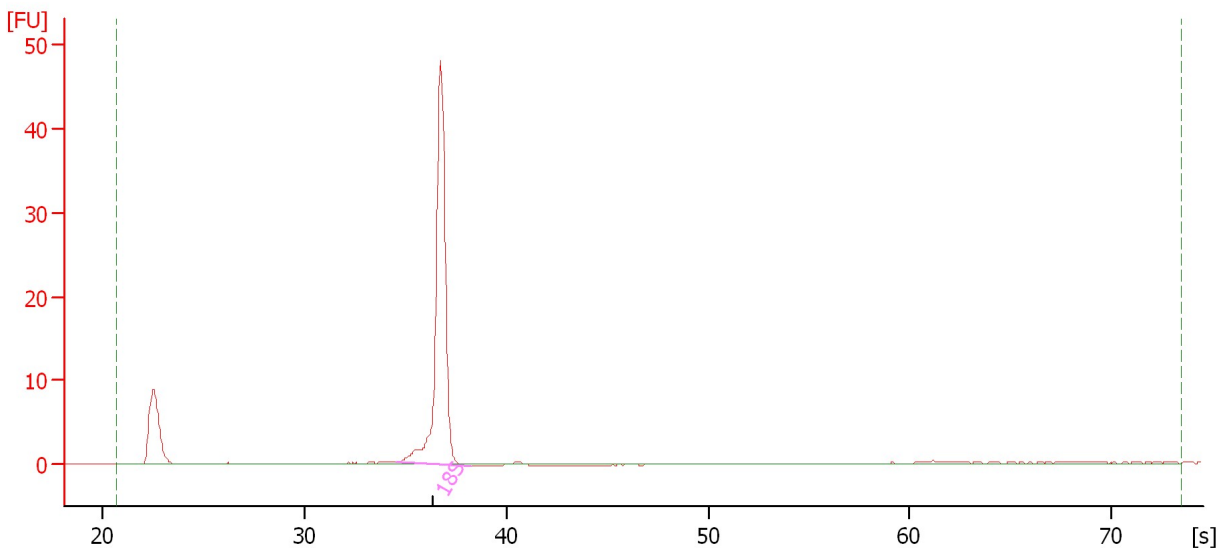
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.34	38.39	183.0	95.1
28S	39.61	41.32	3.7	1.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary Continued ...

Johnson B10 Total RNA 1:2



Overall Results for sample 10 : Johnson B10 Total RNA 1:2

RNA Area: 75.7 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 367 ng/μl
rRNA Ratio [28s / 18s]: 0.0
Result Flagging Color:
Result Flagging Label: RIN:10

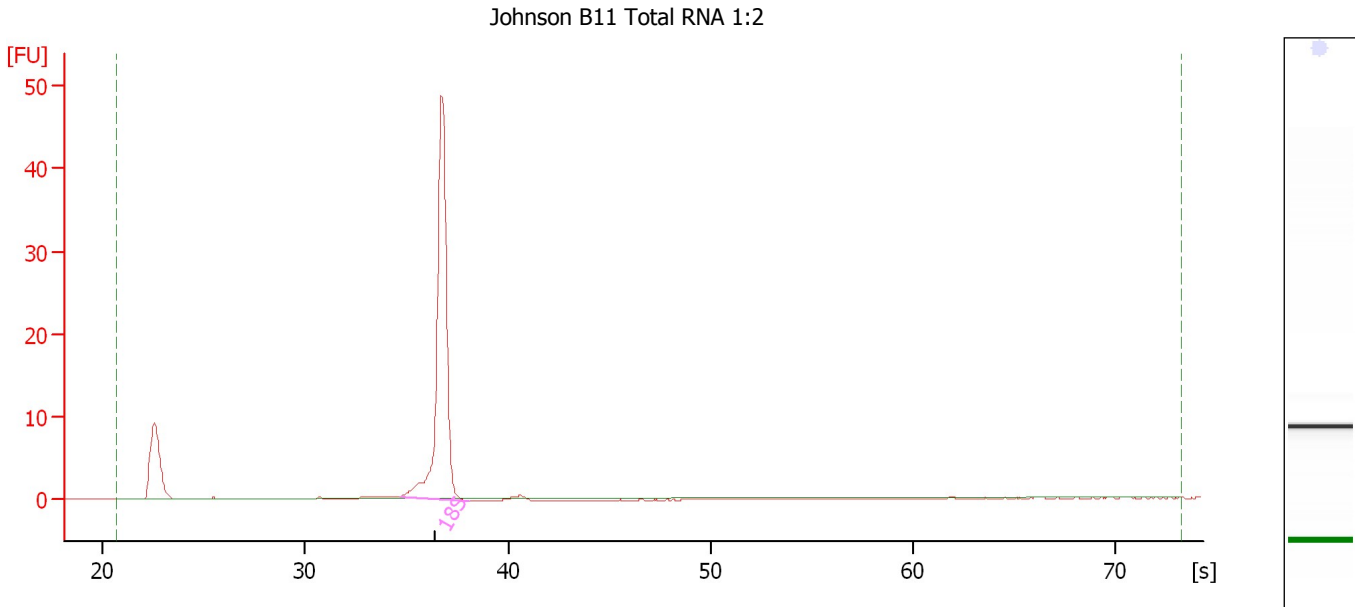
Fragment table for sample 10 : Johnson B10 Total RNA 1:2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.57	38.30	69.2	91.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Johnson B11 Total RNA 1:2

RNA Area: 74.1 RNA Integrity Number (RIN): 10 (B.02.08,
RNA Concentration: 359 ng/μl Anomaly Threshold(s)
rRNA Ratio [28s / 18s]: 0.0 manually adapted)
Result Flagging Color:
Result Flagging Label: RIN:10

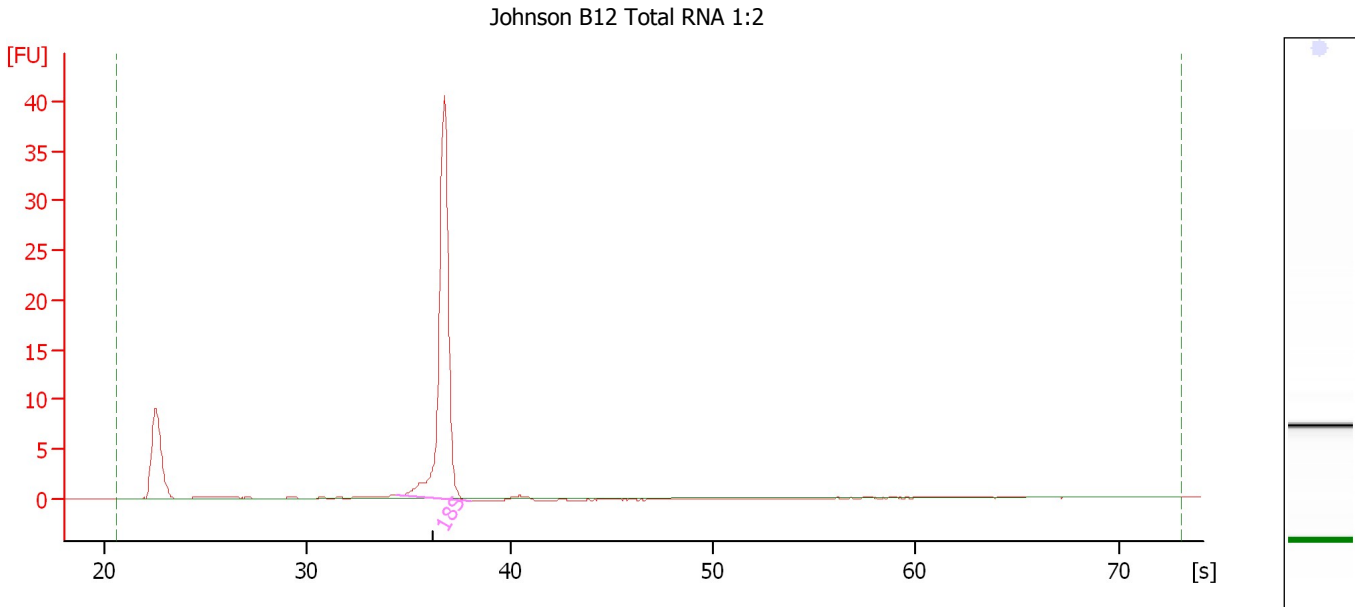
Fragment table for sample 11 : Johnson B11 Total RNA 1:2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.65	38.10	71.0	95.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
 Modified: 4/25/2013 4:48:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Johnson B12 Total RNA 1:2

RNA Area:	64.7	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	314 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:10

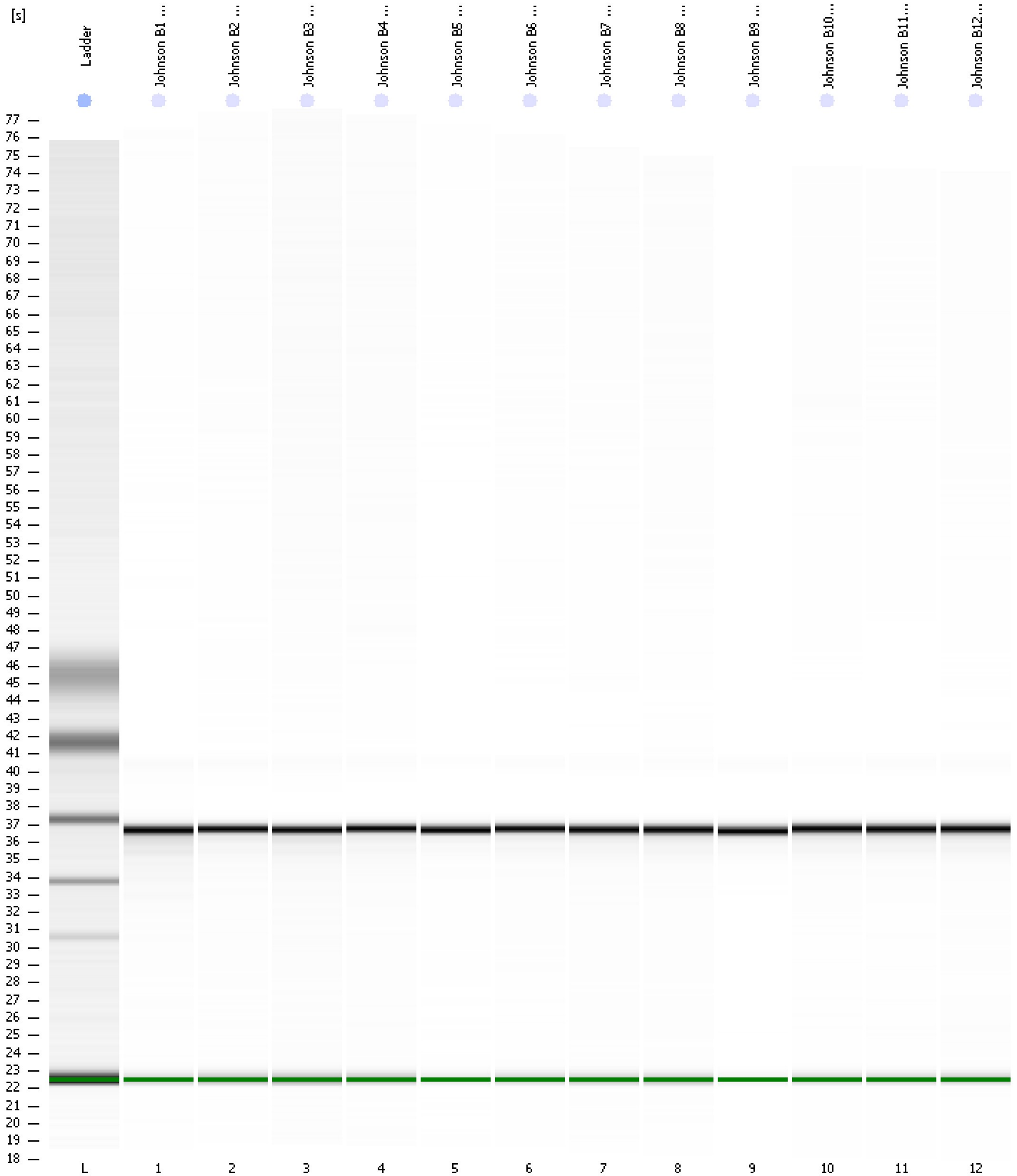
Fragment table for sample 12 : Johnson B12 Total RNA 1:2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	34.46	38.12	58.7	90.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
Modified: 4/25/2013 4:48:47 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad

Created: 4/25/2013 4:23:36 PM
 Modified: 4/25/2013 4:48:47 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		4/25/2013 4:47:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-25\2013-04-25_007.xad)		Instrument	Run		4/25/2013 4:23:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/25/2013 4:23:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/25/2013 4:23:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/25/2013 4:23:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/25/2013 4:23:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/25/2013 4:23:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/25/2013 4:23:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1