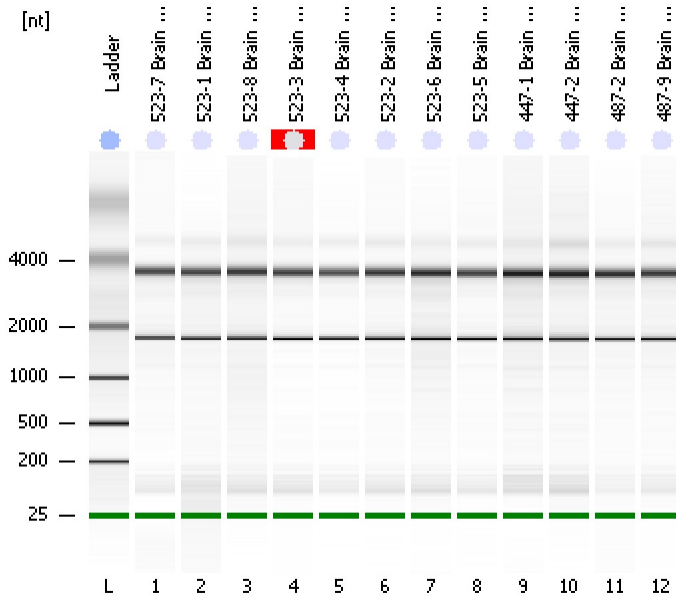


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
Modified: 12/6/2016 11:52:29 AM

Electrophoresis File Run Summary



Instrument Information:

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

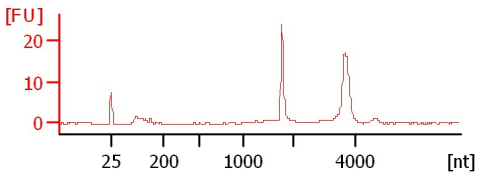
Assay Information:

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.

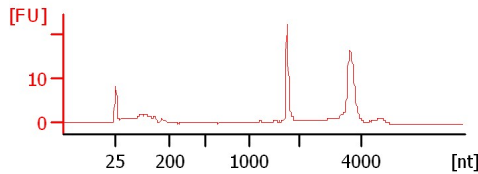
Chip Information:

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

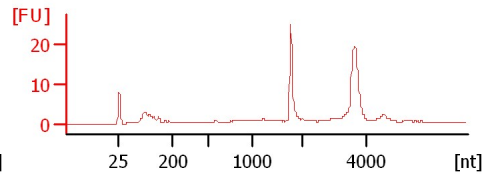
**523-7 Brain RNA**  
RIN: 9.60



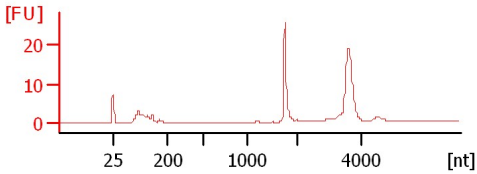
**523-1 Brain RNA**  
RIN: 9.40



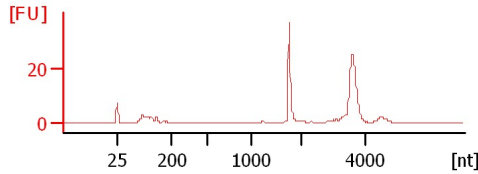
**523-8 Brain RNA**  
RIN: 8.60



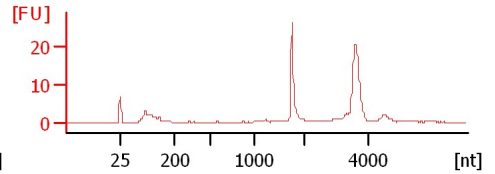
**523-3 Brain RNA**  
RIN N/A



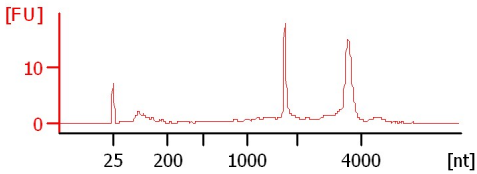
**523-4 Brain RNA**  
RIN: 9.60



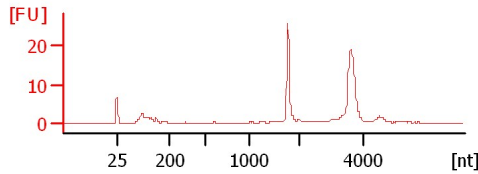
**523-2 Brain RNA**  
RIN: 9.50



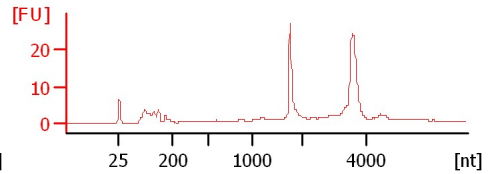
**523-6 Brain RNA**  
RIN: 8.40



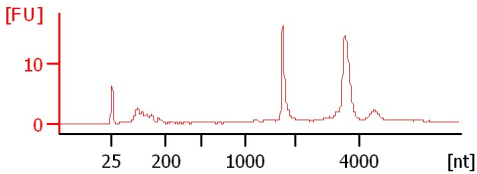
**523-5 Brain RNA**  
RIN: 9.50



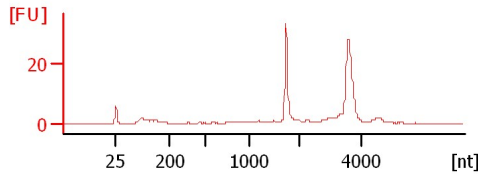
**447-1 Brain RNA**  
RIN: 9



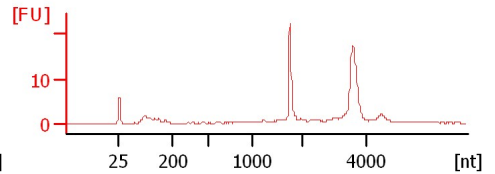
**447-2 Brain RNA**  
RIN: 9.30



**487-2 Brain RNA**  
RIN: 9.20



**487-9 Brain RNA**  
RIN: 9.20



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
 Modified: 12/6/2016 11:52:29 AM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
523-7 Brain RNA		✓	RIN: 9.60	
523-1 Brain RNA		✓	RIN: 9.40	
523-8 Brain RNA		✓	RIN: 8.60	
523-3 Brain RNA		✓	RIN N/A	
523-4 Brain RNA		✓	RIN: 9.60	
523-2 Brain RNA		✓	RIN: 9.50	
523-6 Brain RNA		✓	RIN: 8.40	
523-5 Brain RNA		✓	RIN: 9.50	
447-1 Brain RNA		✓	RIN:9	
447-2 Brain RNA		✓	RIN: 9.30	
487-2 Brain RNA		✓	RIN: 9.20	
487-9 Brain RNA		✓	RIN: 9.20	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
Modified: 12/6/2016 11:52:29 AM

**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

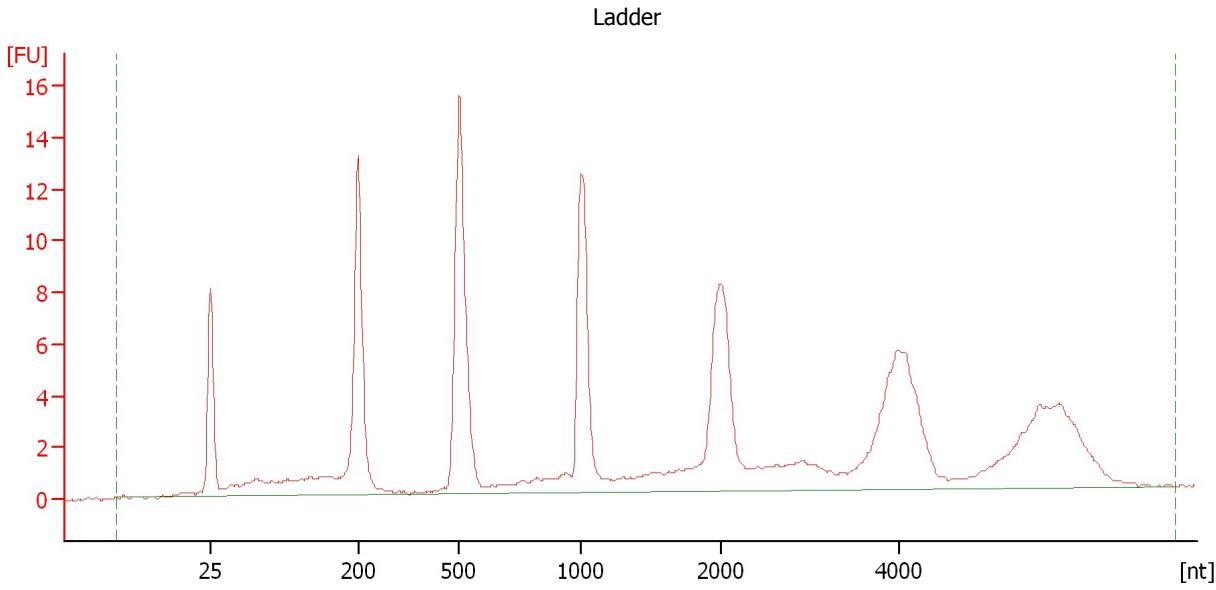
**Ladder**

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\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary**



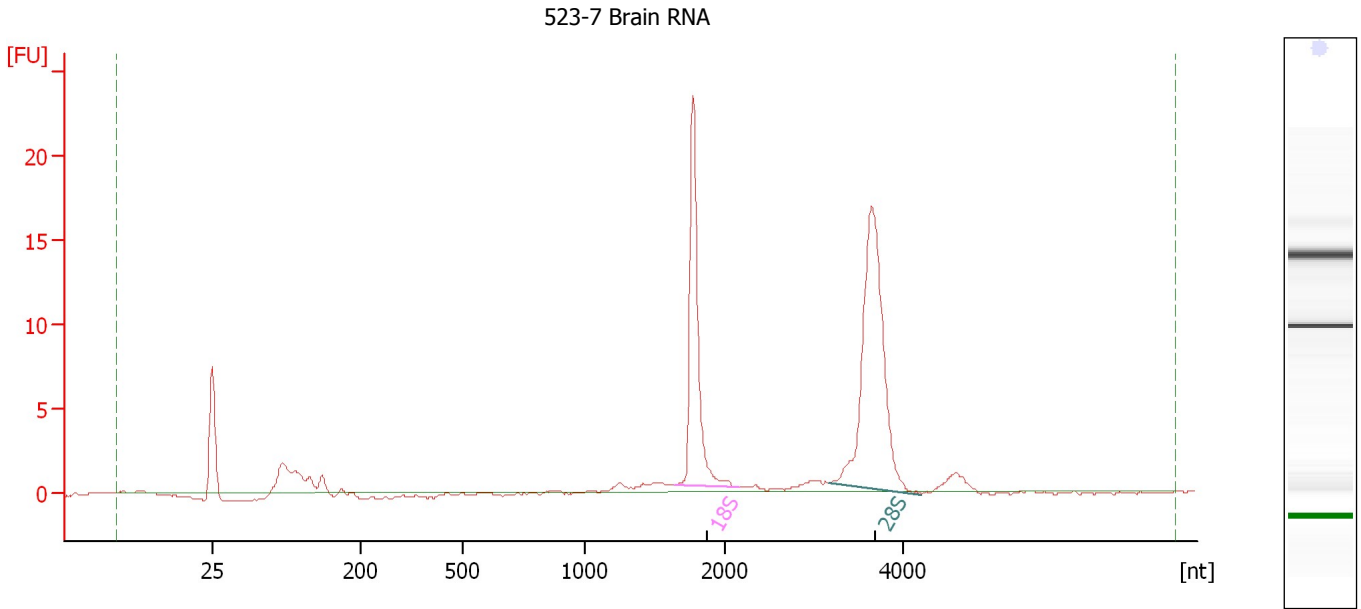
**Overall Results for Ladder**

RNA Area:	150.9	Result Flagging Color:	<span style="background-color: #6699ff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 523-7 Brain RNA**

RNA Area: 76.2 RNA Integrity Number (RIN): 9.6 (B.02.08)  
RNA Concentration: 76 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.60

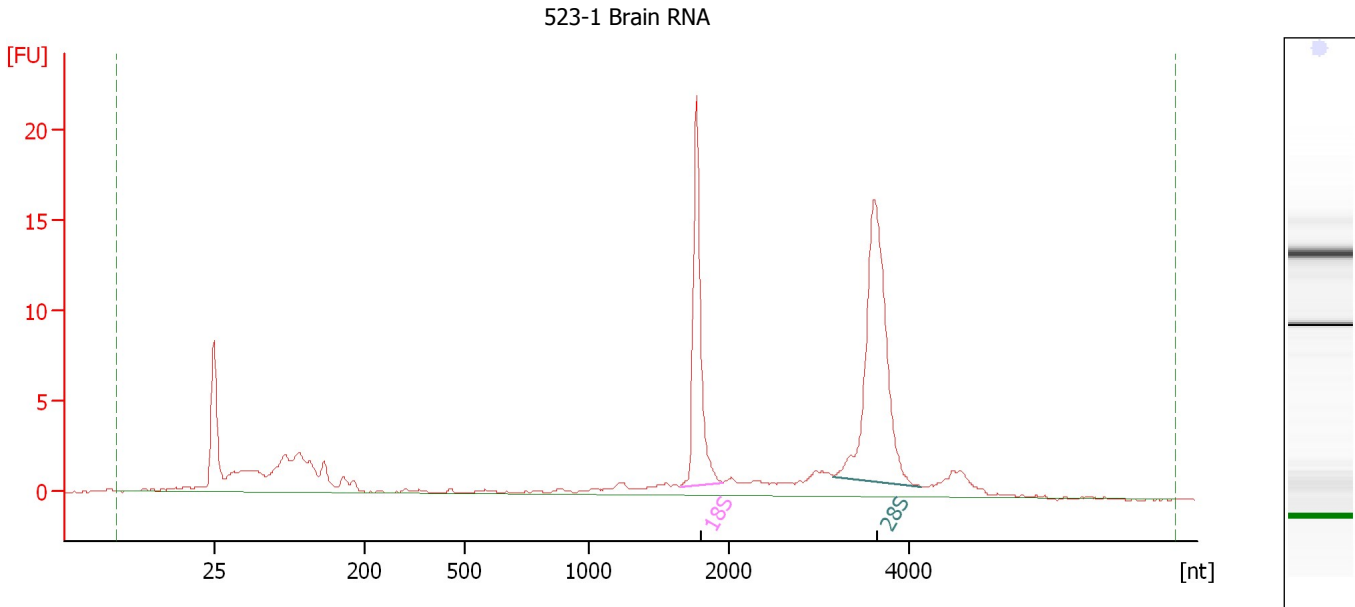
**Fragment table for sample 1 : 523-7 Brain RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	2,167	20.8	27.3
28S	3,163	4,207	34.1	44.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 523-1 Brain RNA**

RNA Area: 107.5 RNA Integrity Number (RIN): 9.4 (B.02.08)  
RNA Concentration: 107 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.40

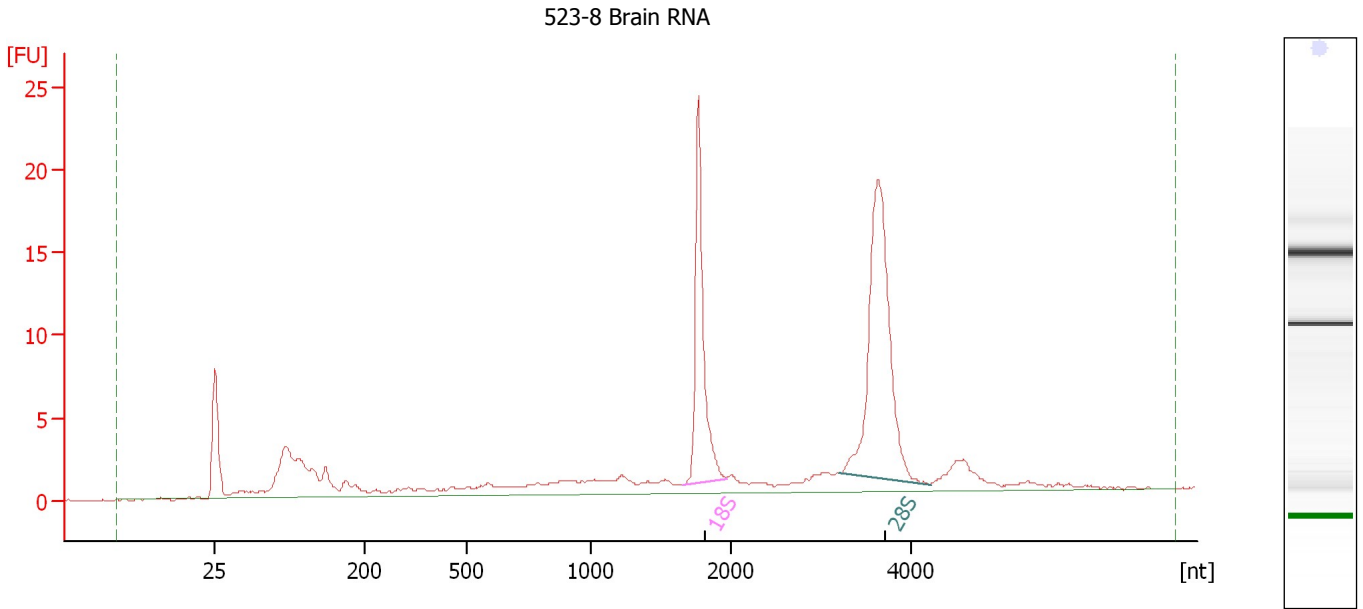
**Fragment table for sample 2 : 523-1 Brain RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	1,961	18.1	16.8
28S	3,170	4,150	31.1	28.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
 Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 523-8 Brain RNA**

RNA Area:	133.9	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	133 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.60

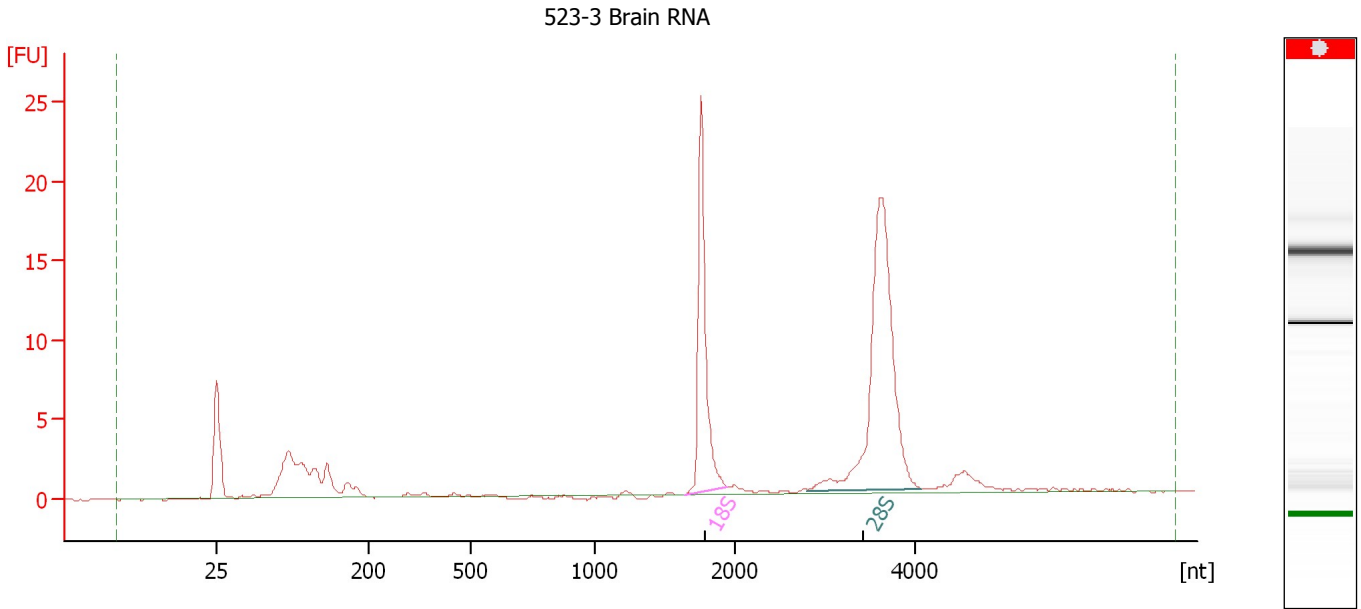
**Fragment table for sample 3 : 523-8 Brain RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	1,961	21.6	16.1
28S	3,192	4,217	36.3	27.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
 Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 523-3 Brain RNA**

RNA Area:	93.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	93 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN N/A

**Fragment table for sample 4 : 523-3 Brain RNA**

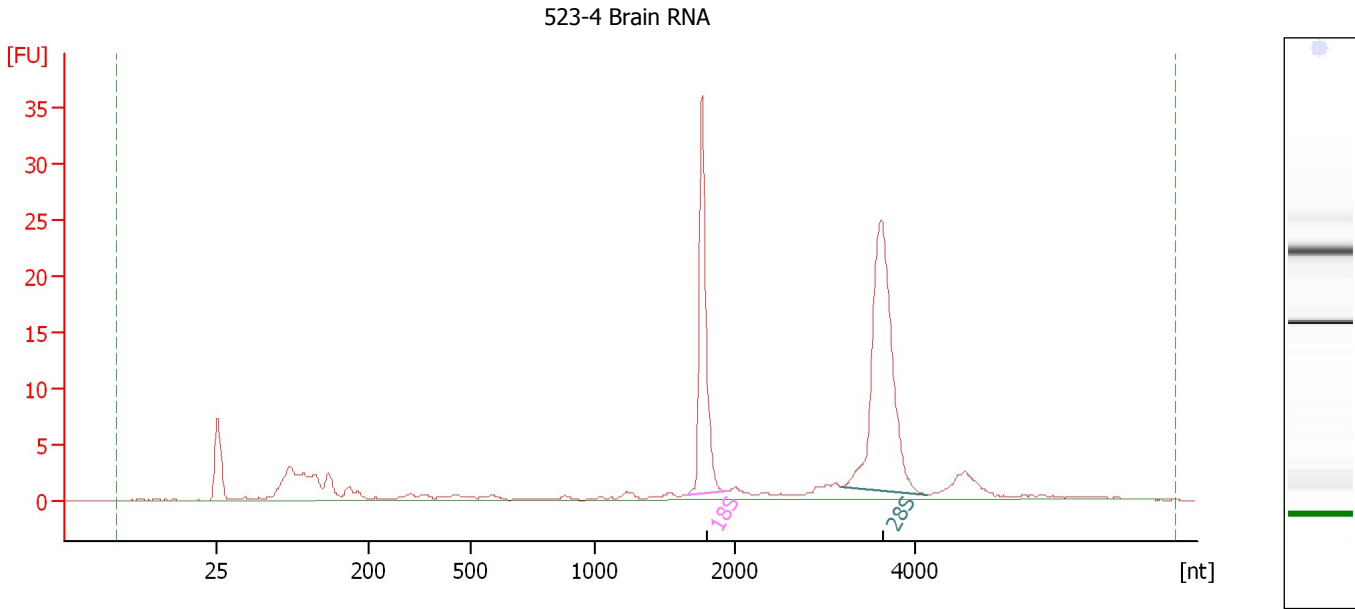
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	1,939	21.5	23.0
28S	2,795	4,065	39.1	41.8



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 523-4 Brain RNA**

RNA Area: 134.4 RNA Integrity Number (RIN): 9.6 (B.02.08)  
RNA Concentration: 134 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.60

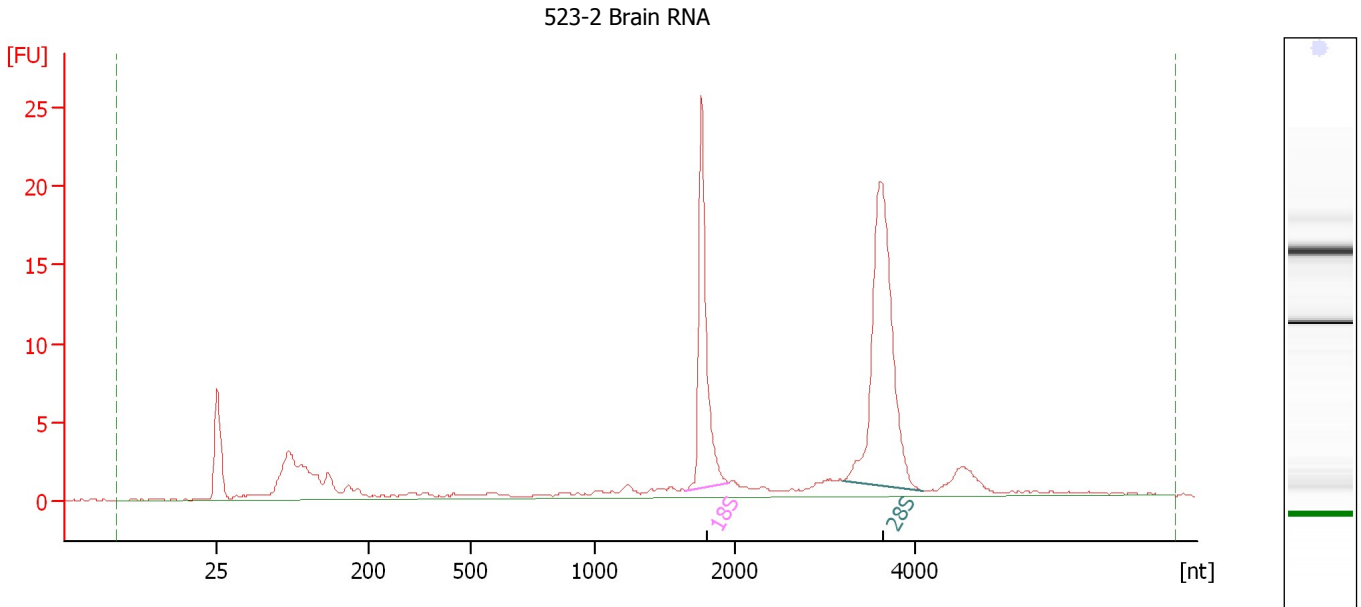
**Fragment table for sample 5 : 523-4 Brain RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	1,939	29.0	21.6
28S	3,163	4,137	47.2	35.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 523-2 Brain RNA**

RNA Area: 117.6 RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 117 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.50

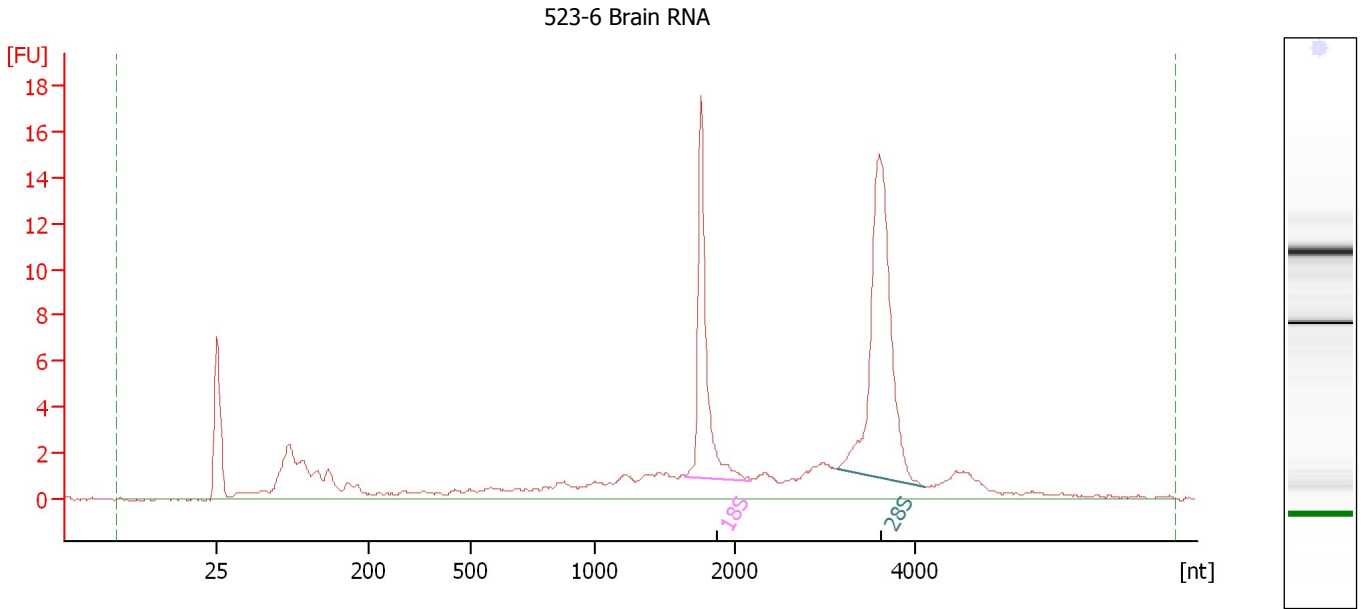
**Fragment table for sample 6 : 523-2 Brain RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	1,946	22.2	18.8
28S	3,199	4,077	38.4	32.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 523-6 Brain RNA**

RNA Area: 109.1 RNA Integrity Number (RIN): 8.4 (B.02.08)  
RNA Concentration: 108 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 8.40

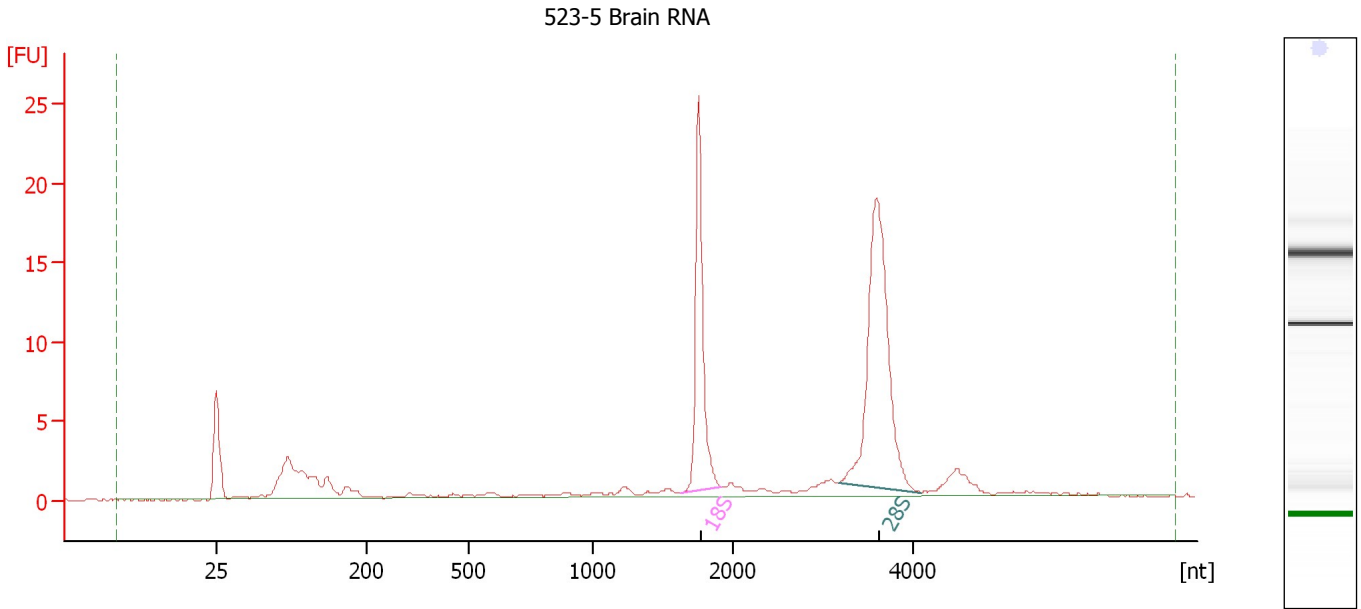
**Fragment table for sample 7 : 523-6 Brain RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	2,166	15.7	14.4
28S	3,127	4,113	27.6	25.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 523-5 Brain RNA**

RNA Area: 99.0 RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 98 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.50

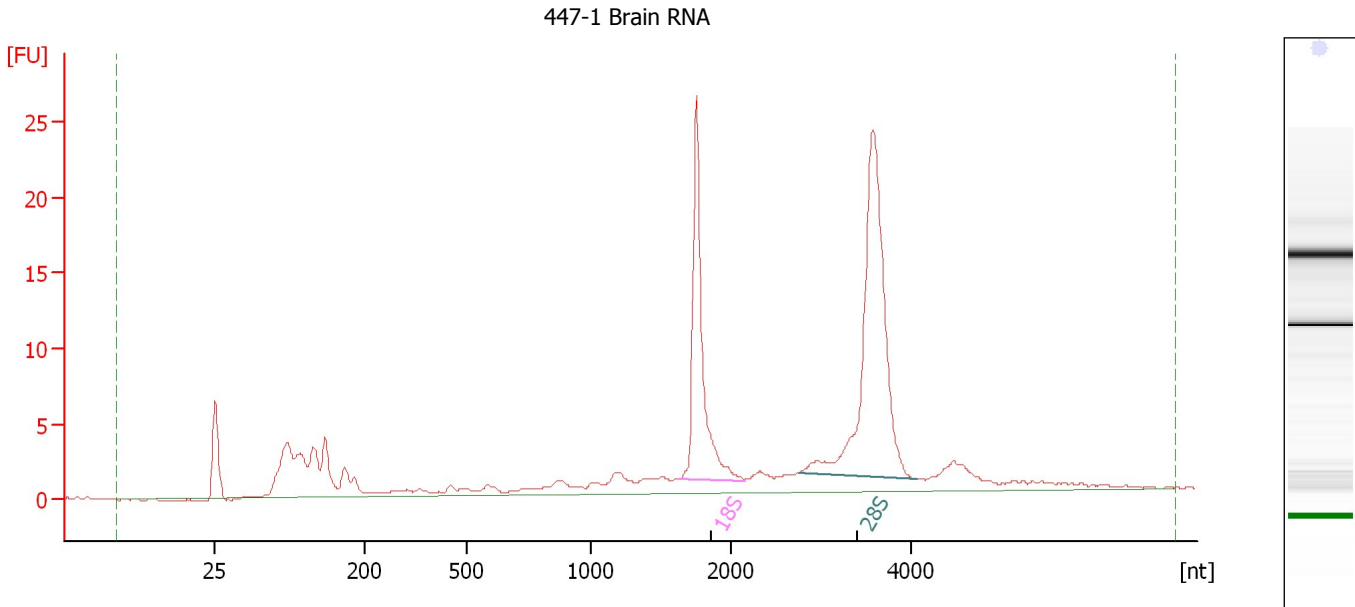
**Fragment table for sample 8 : 523-5 Brain RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	1,908	21.5	21.7
28S	3,165	4,082	36.2	36.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 447-1 Brain RNA**

RNA Area: 158.4 RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 158 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN:9

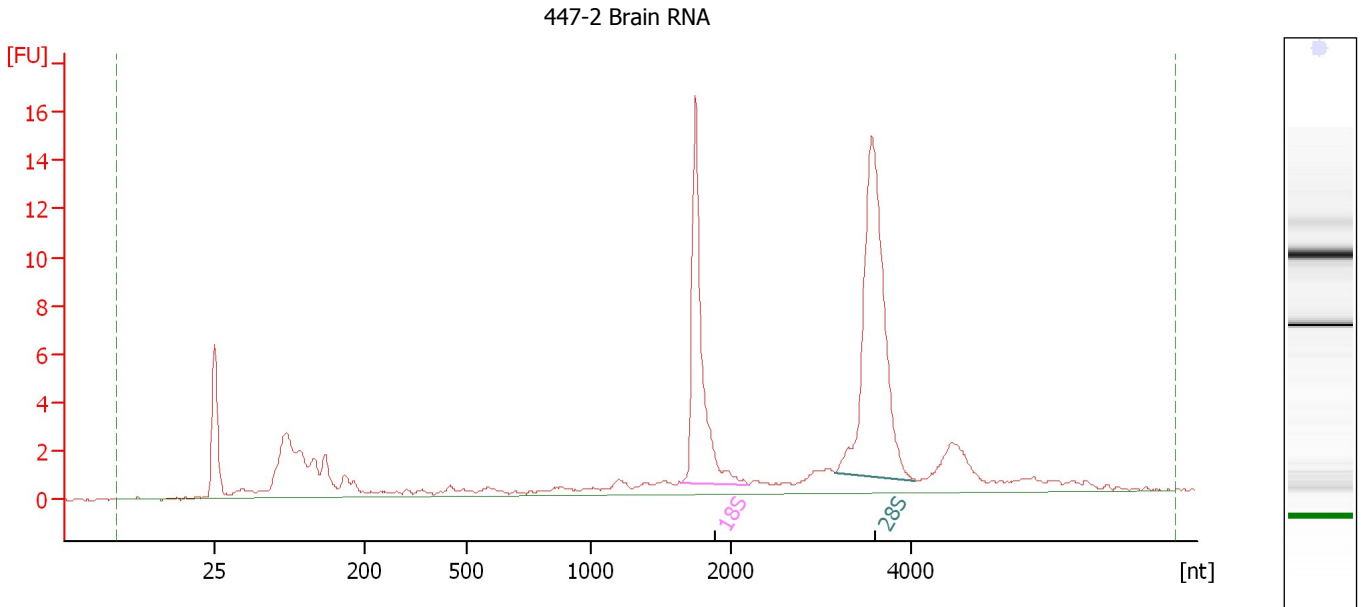
**Fragment table for sample 9 : 447-1 Brain RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	2,142	26.7	16.9
28S	2,762	4,074	48.0	30.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
 Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 447-2 Brain RNA**

RNA Area:	100.4	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	100 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.30

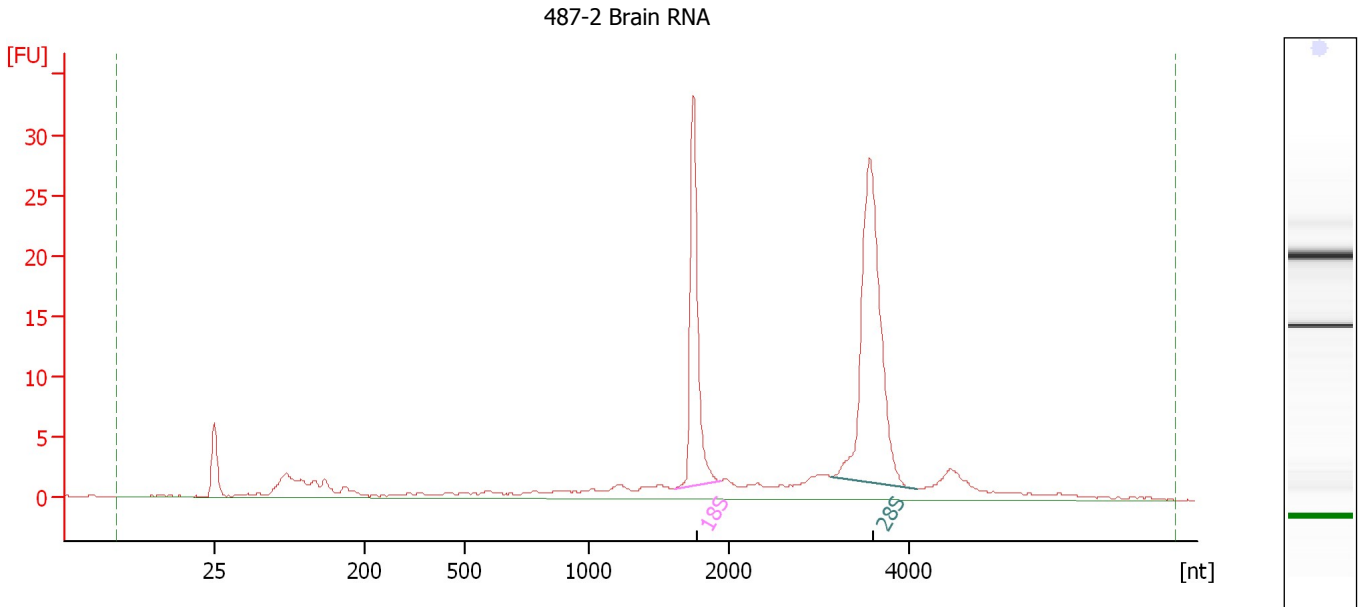
**Fragment table for sample 10 : 447-2 Brain RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	2,202	17.2	17.1
28S	3,156	4,050	28.0	27.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
 Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 487-2 Brain RNA**

RNA Area:	156.0	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	155 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.20

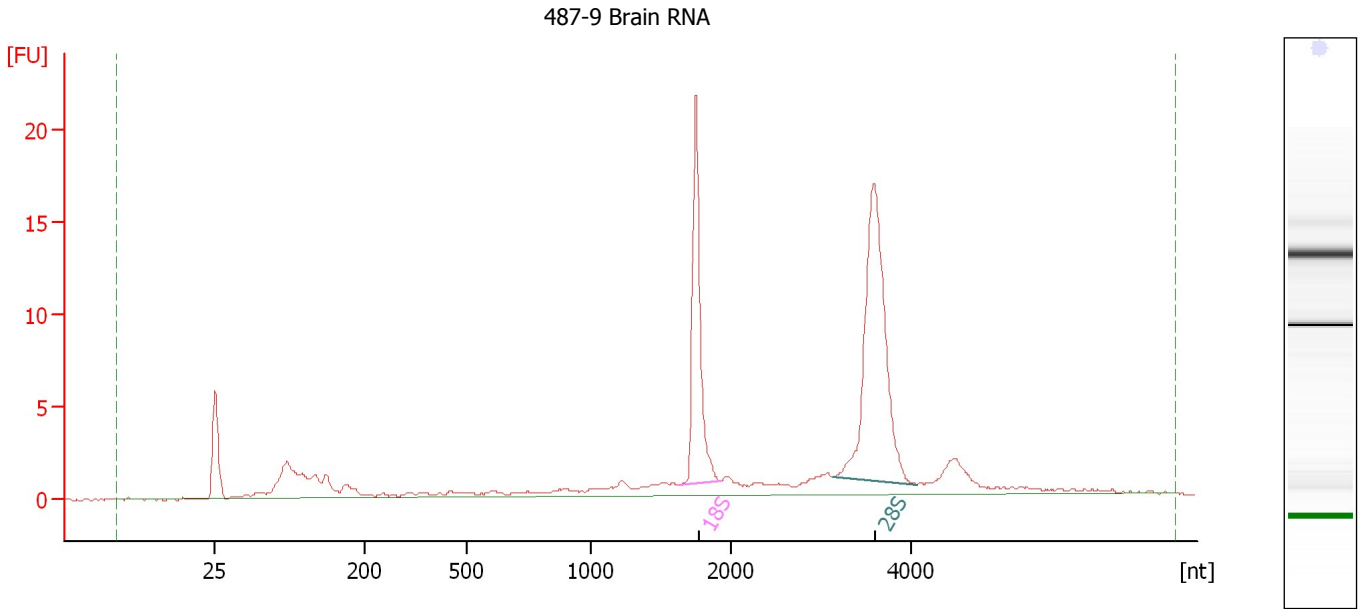
**Fragment table for sample 11 : 487-2 Brain RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,610	1,938	27.0	17.3
28S	3,134	4,090	50.1	32.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
Modified: 12/6/2016 11:52:29 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 487-9 Brain RNA**

RNA Area: 99.1 RNA Integrity Number (RIN): 9.2 (B.02.08)  
RNA Concentration: 99 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.20

**Fragment table for sample 12 : 487-9 Brain RNA**

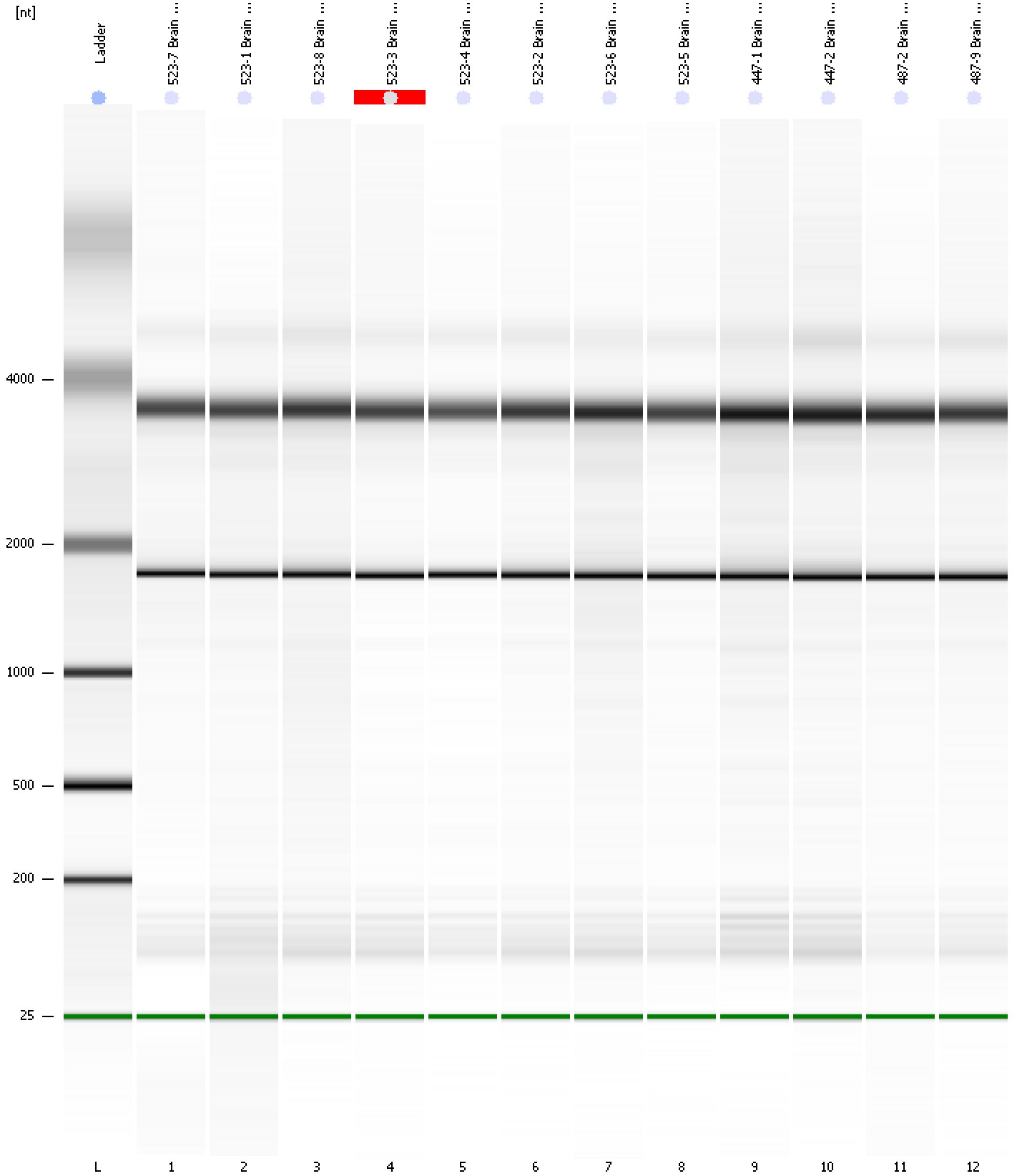
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	1,931	18.1	18.3
28S	3,132	4,062	32.2	32.5



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
Modified: 12/6/2016 11:52:29 AM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06\_003.xad

Created: 12/6/2016 11:28:40 AM  
 Modified: 12/6/2016 11:52:29 AM

**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		12/6/2016 11:52:27 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_003.xad)		Instrument	Run		12/6/2016 11:28:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/6/2016 11:28:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/6/2016 11:28:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/6/2016 11:28:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/6/2016 11:28:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/6/2016 11:28:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/6/2016 11:28:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1