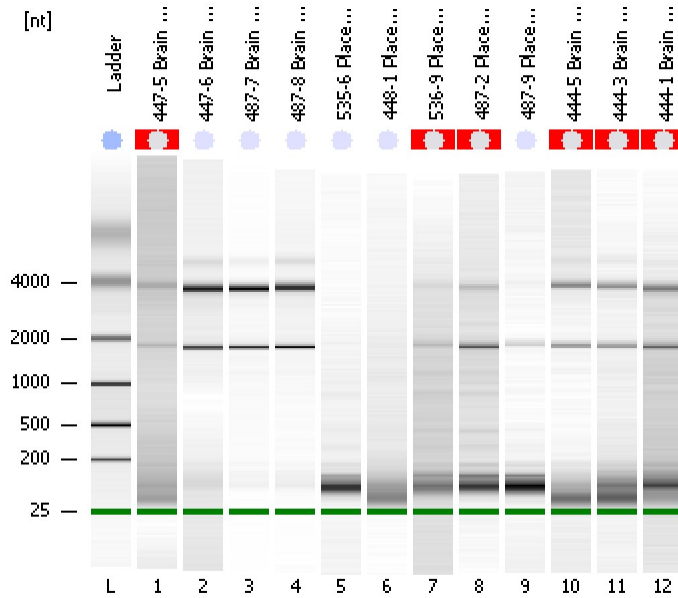


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 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

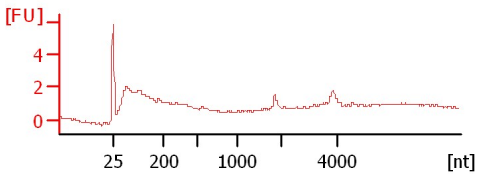
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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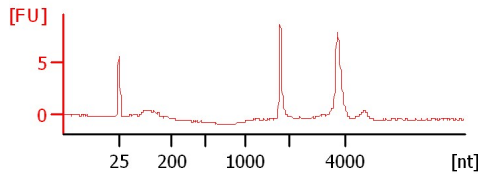
Chip Information:

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

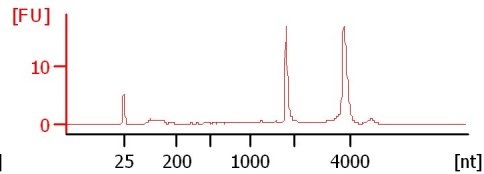
447-5 Brain RNA
RIN N/A



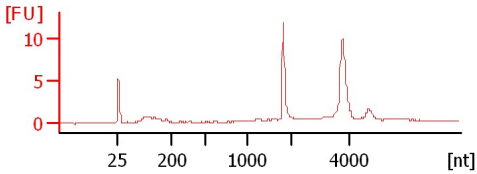
447-6 Brain RNA
RIN:10



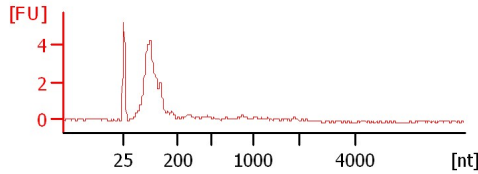
487-7 Brain RNA
RIN:9



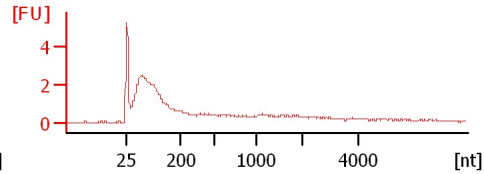
487-8 Brain RNA
RIN: 9.50



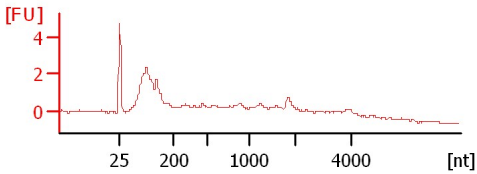
535-6 Placenta RNA
RIN: 2.50



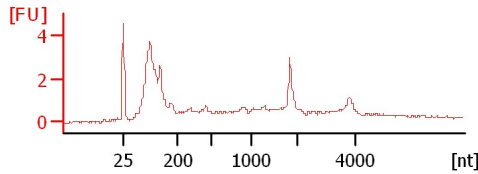
448-1 Placenta RNA
RIN: 2.50



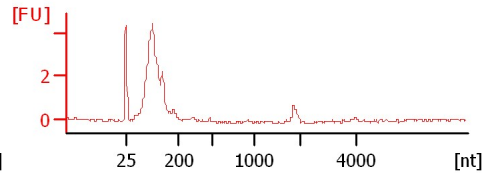
536-9 Placenta RNA
RIN N/A



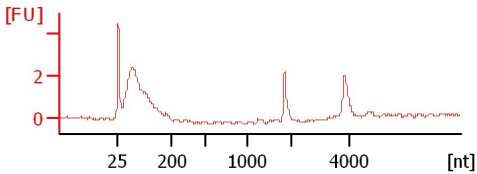
487-2 Placenta RNA
RIN N/A



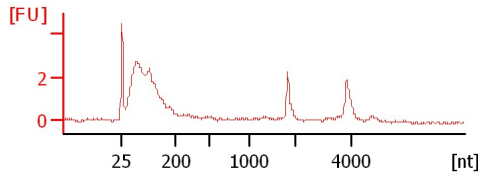
487-9 Placenta RNA
RIN: 2.90



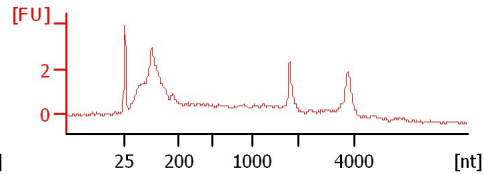
444-5 Brain RNA
RIN N/A



444-3 Brain RNA
RIN N/A



444-1 Brain RNA
RIN N/A



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
447-5 Brain RNA		✓	RIN N/A	
447-6 Brain RNA		✓	RIN:10	
487-7 Brain RNA		✓	RIN:9	
487-8 Brain RNA		✓	RIN: 9.50	
535-6 Placenta RNA		✓	RIN: 2.50	
448-1 Placenta RNA		✓	RIN: 2.50	
536-9 Placenta RNA		✓	RIN N/A	
487-2 Placenta RNA		✓	RIN N/A	
487-9 Placenta RNA		✓	RIN: 2.90	
444-5 Brain RNA		✓	RIN N/A	
444-3 Brain RNA		✓	RIN N/A	
444-1 Brain RNA		✓	RIN N/A	
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_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 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

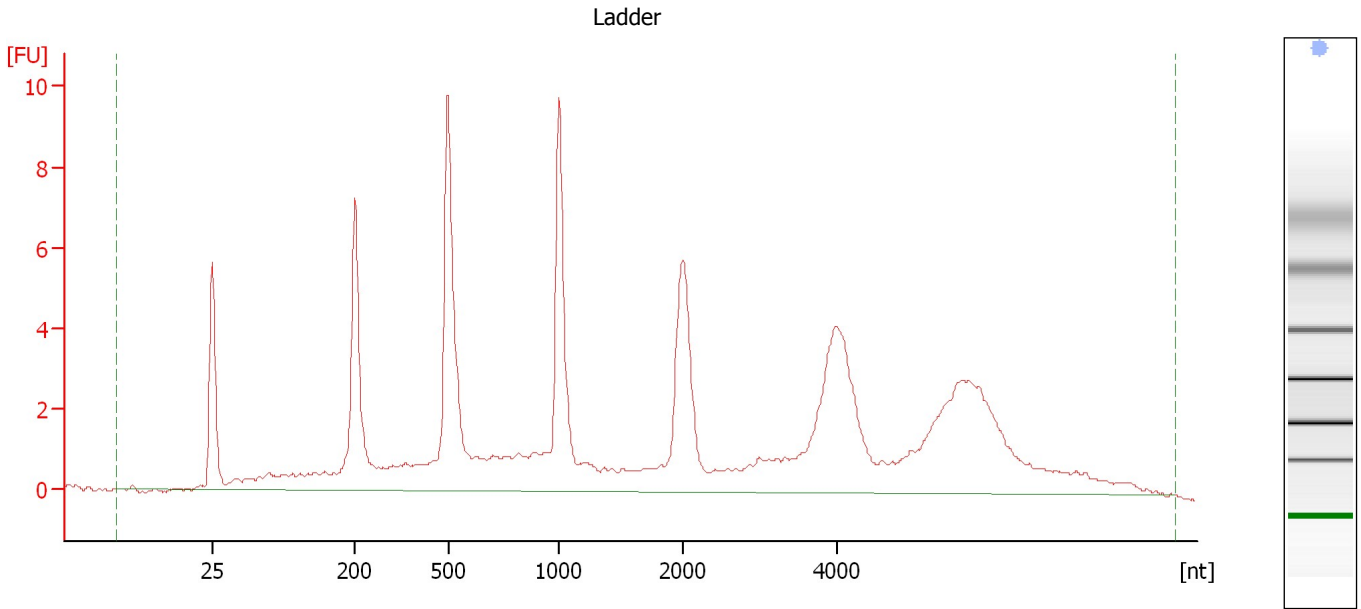
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary



Overall Results for Ladder

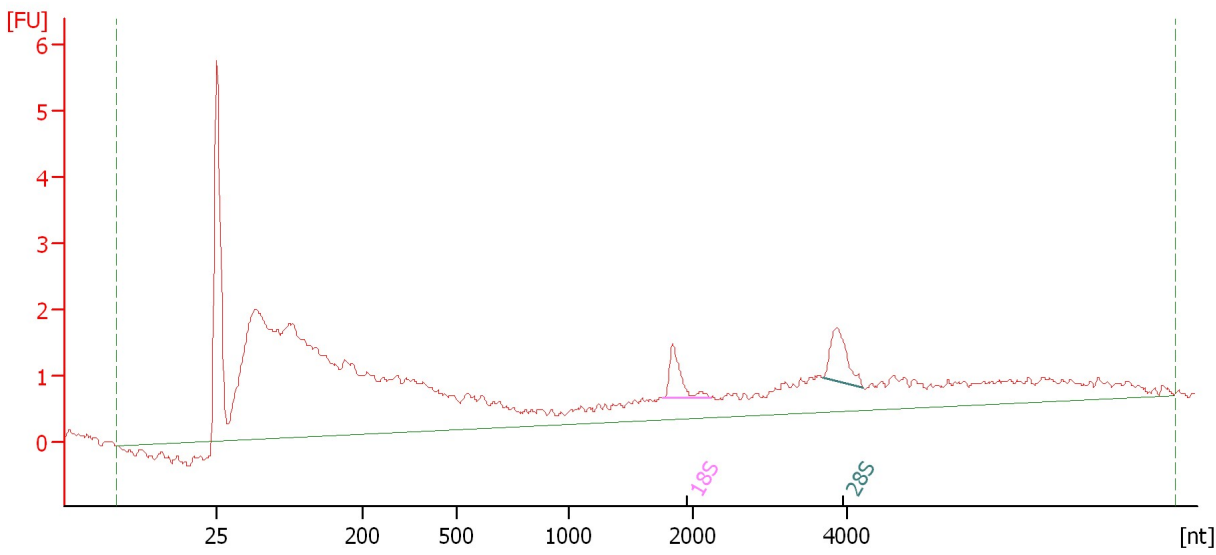
RNA Area:	121.3	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary Continued ...

447-5 Brain RNA



Overall Results for sample 1 : 447-5 Brain RNA

RNA Area: 64.4 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 80 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN N/A

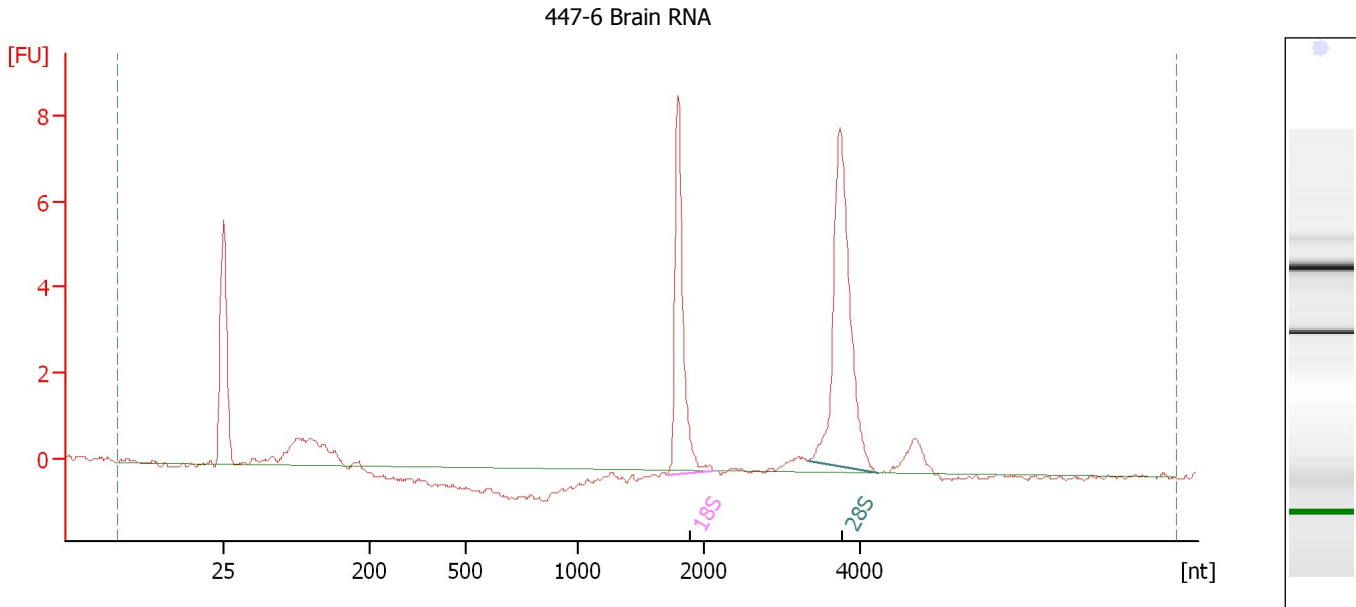
Fragment table for sample 1 : 447-5 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,762	2,225	1.1	1.7
28S	3,668	4,204	1.4	2.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 447-6 Brain RNA

RNA Area: 30.6 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 38 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN:10

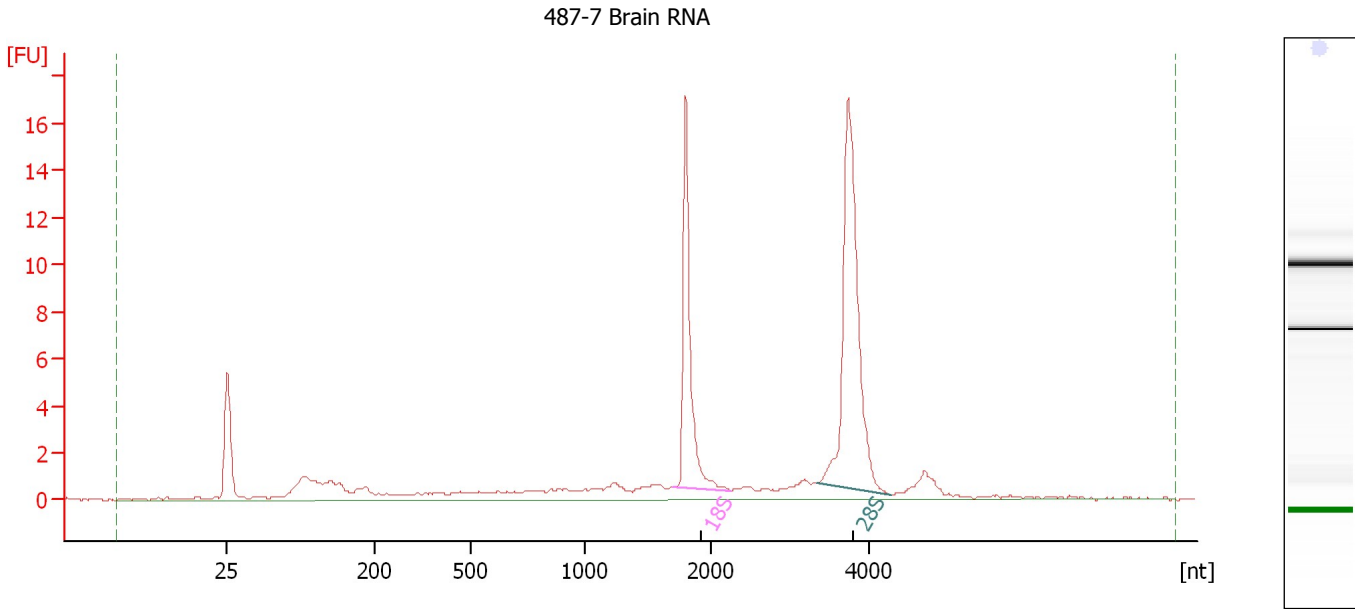
Fragment table for sample 2 : 447-6 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,708	2,119	7.9	25.9
28S	3,330	4,215	13.1	42.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 487-7 Brain RNA

RNA Area: 72.9 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 90 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN:9

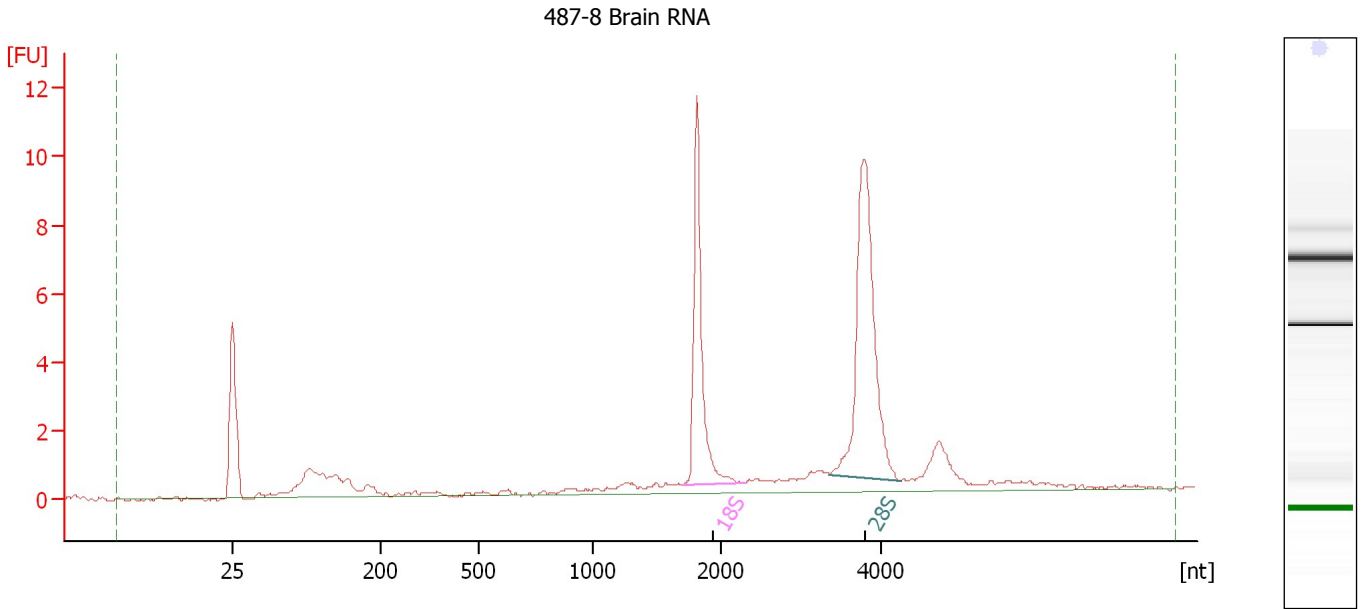
Fragment table for sample 3 : 487-7 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	2,258	14.1	19.4
28S	3,351	4,268	24.3	33.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 487-8 Brain RNA

RNA Area: 48.9 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 61 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.50

Fragment table for sample 4 : 487-8 Brain RNA

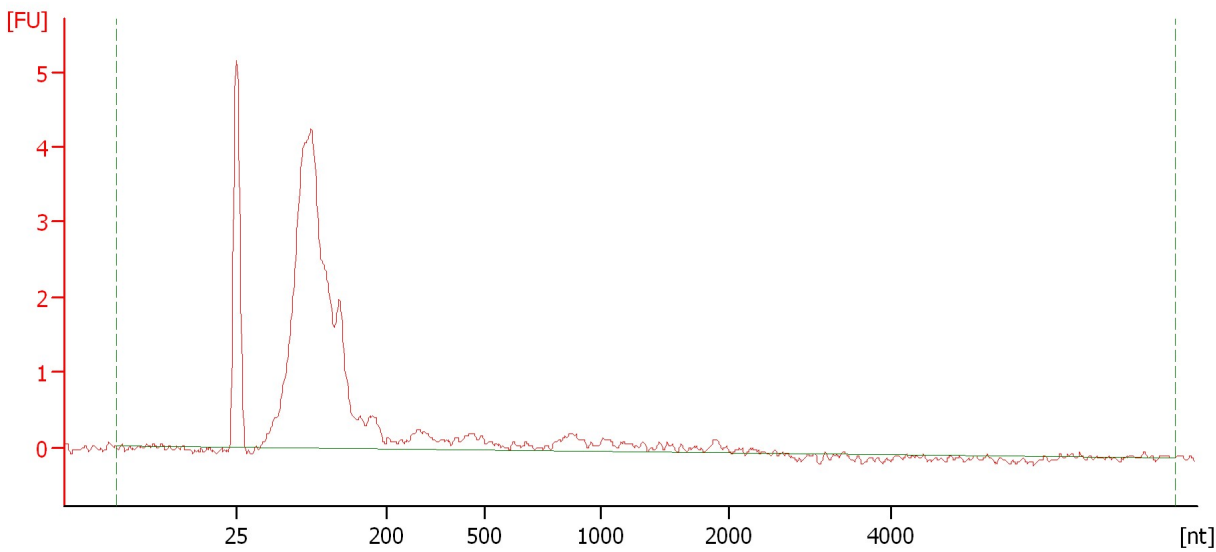
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,703	2,287	10.1	20.7
28S	3,356	4,238	16.1	32.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary Continued ...

535-6 Placenta RNA



Overall Results for sample 5 : 535-6 Placenta RNA

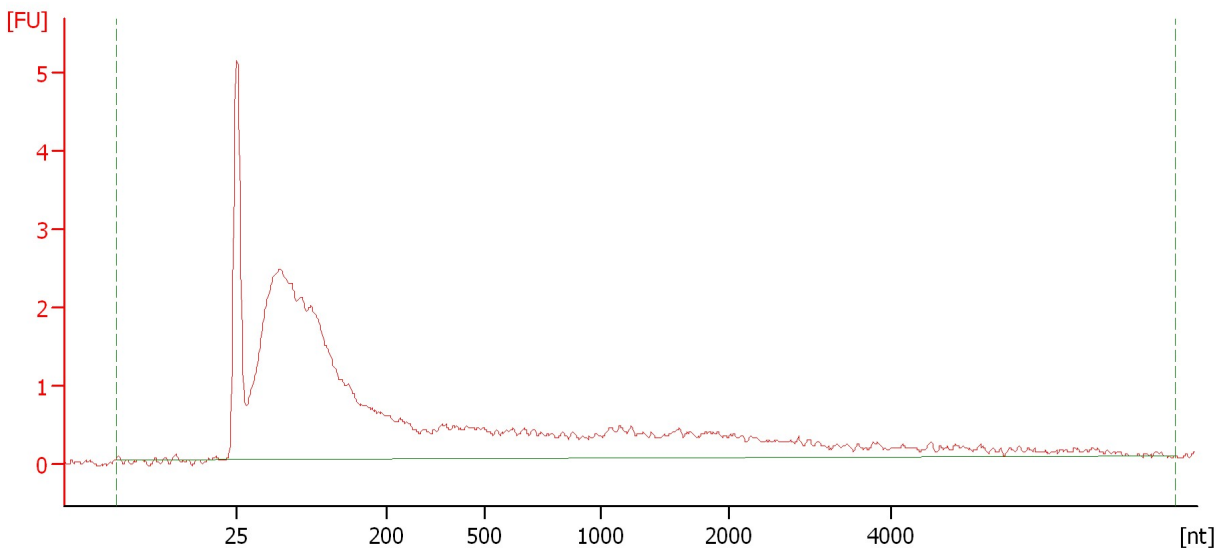
RNA Area:	34.0	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	42 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary Continued ...

448-1 Placenta RNA



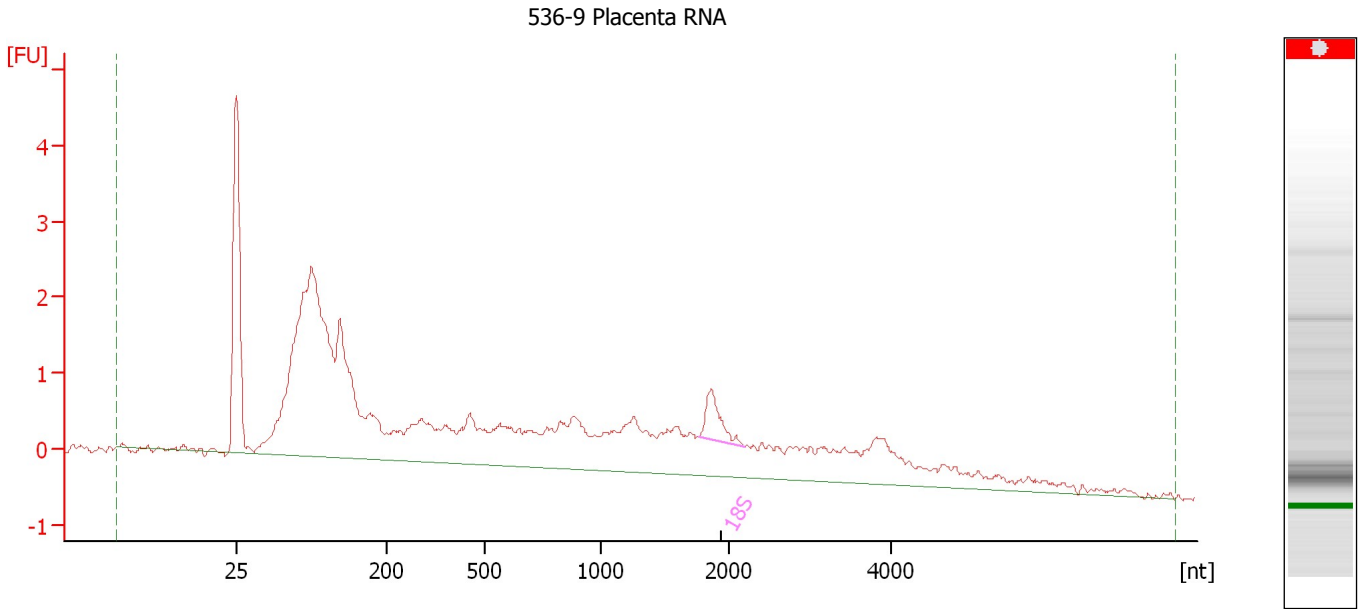
Overall Results for sample 6 : 448-1 Placenta RNA

RNA Area:	51.6	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	64 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
 Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 536-9 Placenta RNA

RNA Area:	53.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	66 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

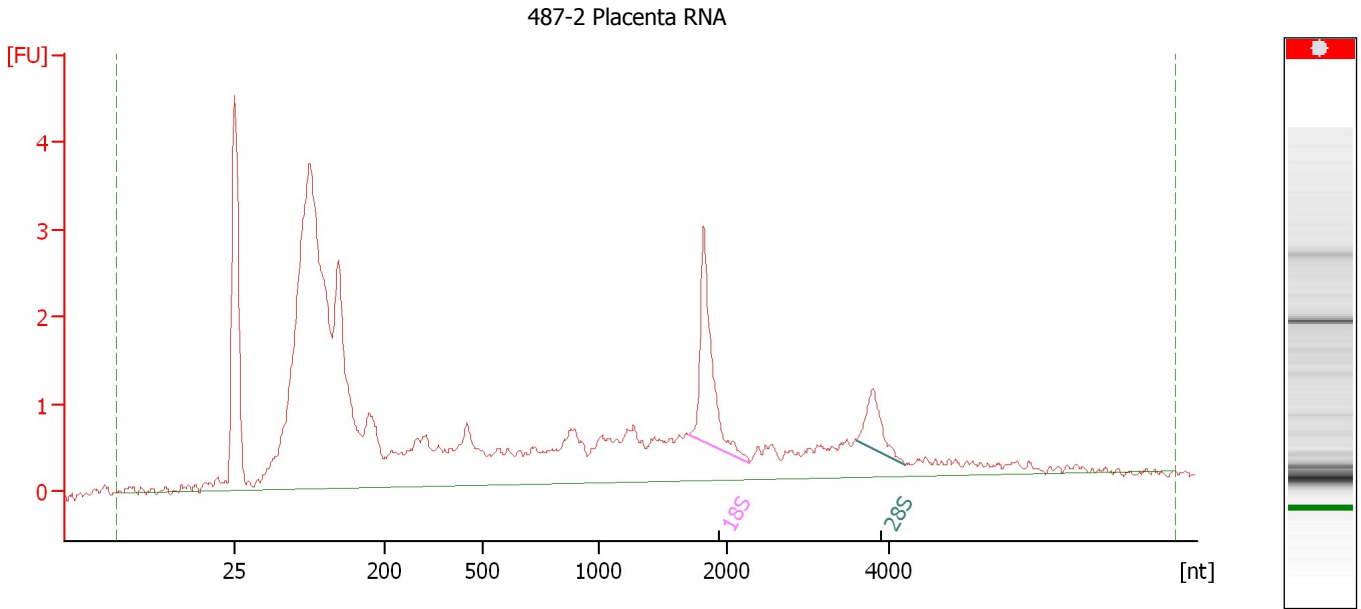
Fragment table for sample 7 : 536-9 Placenta RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,766	2,183	1.1	2.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 487-2 Placenta RNA

RNA Area: 59.6 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 74 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN N/A

Fragment table for sample 8 : 487-2 Placenta RNA

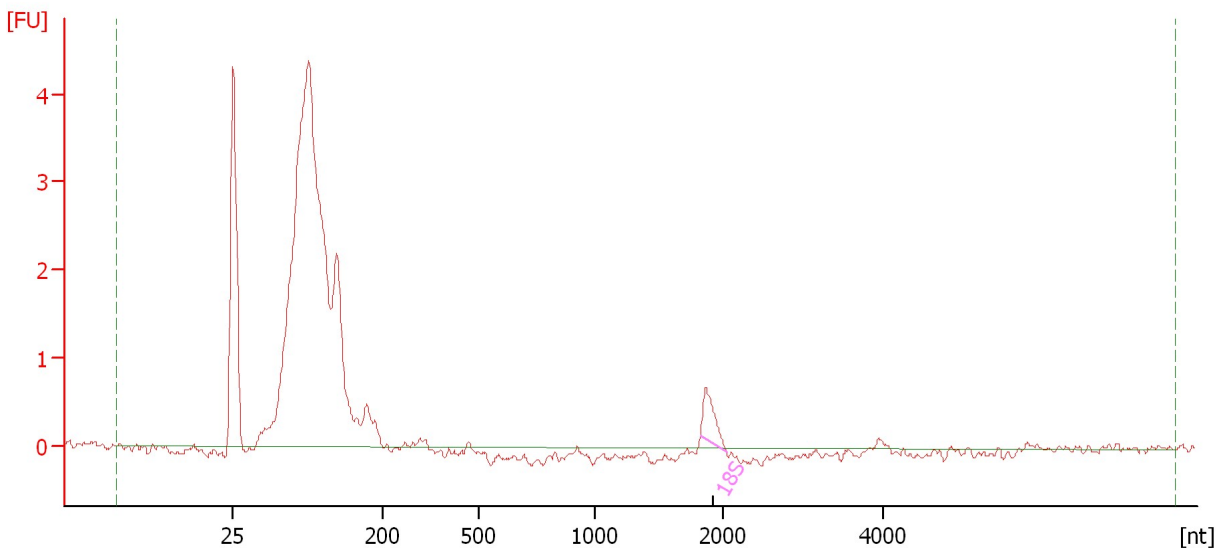
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,698	2,276	3.1	5.2
28S	3,603	4,201	1.0	1.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary Continued ...

487-9 Placenta RNA



Overall Results for sample 9 : 487-9 Placenta RNA

RNA Area:	30.9	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	38 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.90

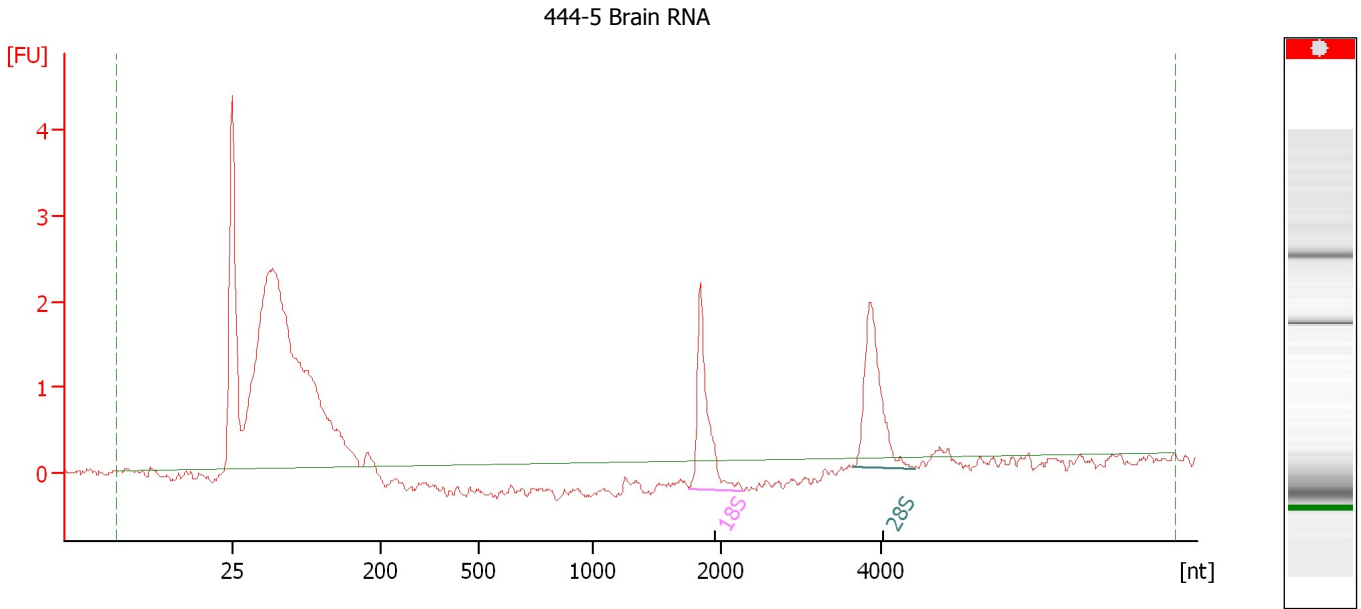
Fragment table for sample 9 : 487-9 Placenta RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,821	2,035	0.8	2.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 444-5 Brain RNA

RNA Area:	26.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	32 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN N/A

Fragment table for sample 10 : 444-5 Brain RNA

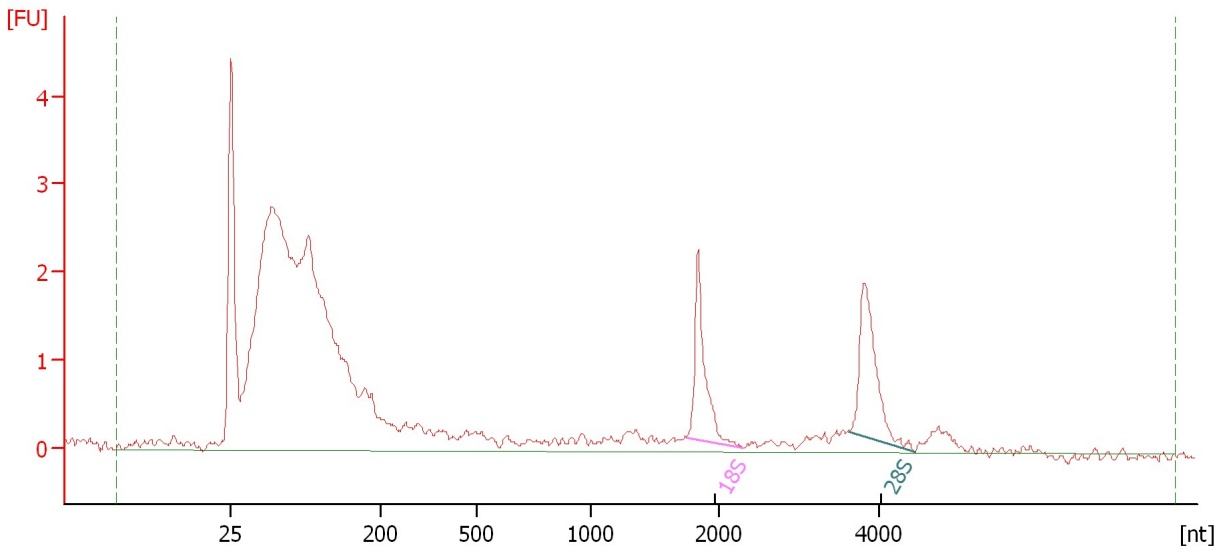
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,745	2,261	2.9	10.9
28S	3,637	4,411	3.0	11.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary Continued ...

444-3 Brain RNA



Overall Results for sample 11 : 444-3 Brain RNA

RNA Area: 53.4 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 66 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN N/A

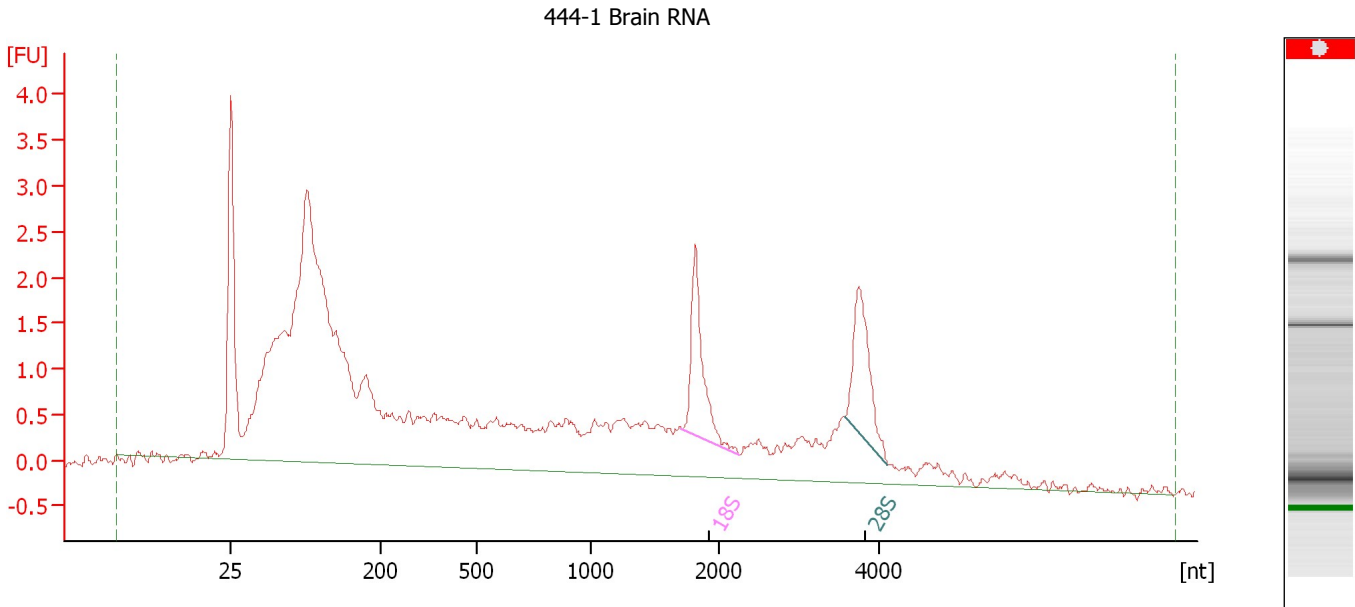
Fragment table for sample 11 : 444-3 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,744	2,287	2.5	4.6
28S	3,639	4,455	2.8	5.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
 Modified: 12/6/2016 12:43:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 444-1 Brain RNA

RNA Area:	64.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	80 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN N/A

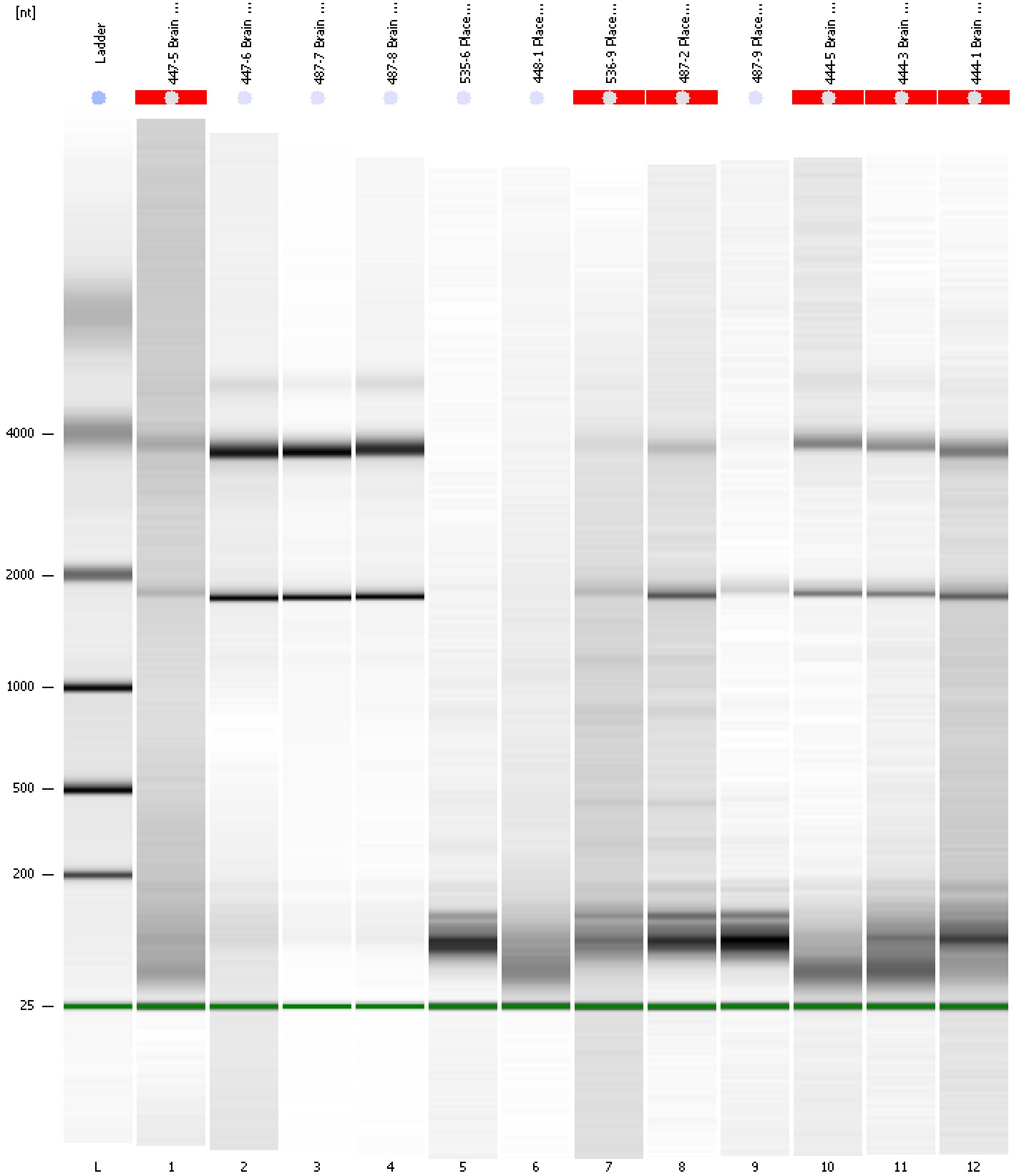
Fragment table for sample 12 : 444-1 Brain RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,702	2,260	2.6	4.1
28S	3,572	4,107	2.6	4.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
Modified: 12/6/2016 12:43:07 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-06\2016-12-06_004.xad

Created: 12/6/2016 12:17:47 PM
 Modified: 12/6/2016 12:43:07 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		12/6/2016 12:40:49 PM	(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_004.xad)		Instrument	Run		12/6/2016 12:17:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/6/2016 12:17:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/6/2016 12:17:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/6/2016 12:17:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/6/2016 12:17:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/6/2016 12:17:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/6/2016 12:17:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1