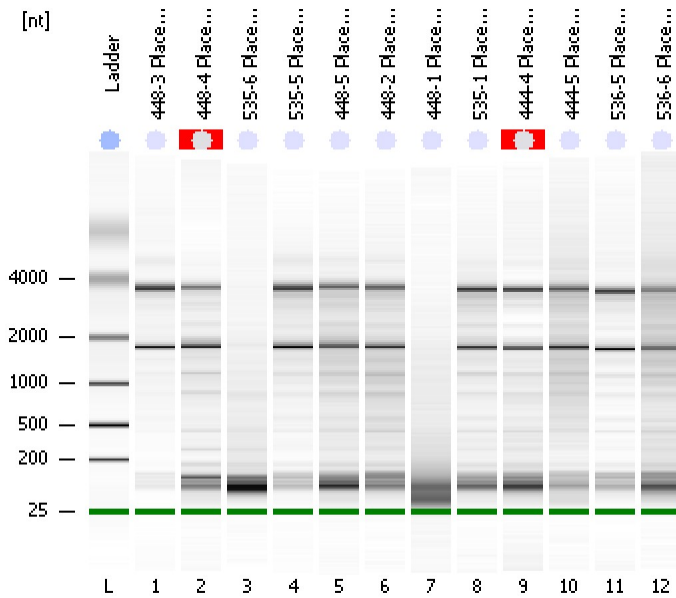


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

Electrophoresis File Run Summary



Instrument Information:

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

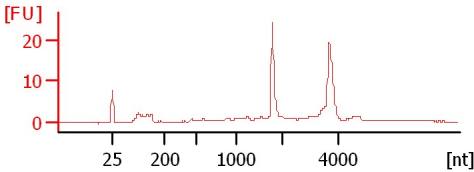
Assay Information:

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.

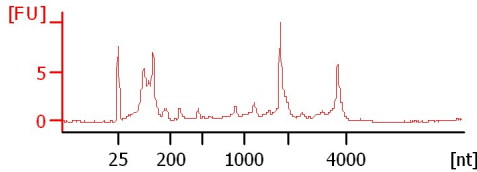
Chip Information:

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

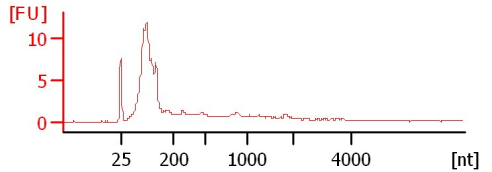
**448-3 Placenta RNA**  
RIN: 8.50



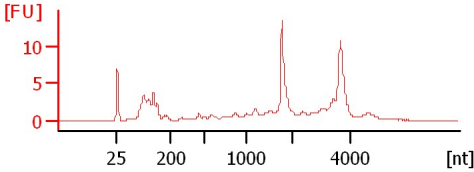
**448-4 Placenta RNA**  
RIN N/A



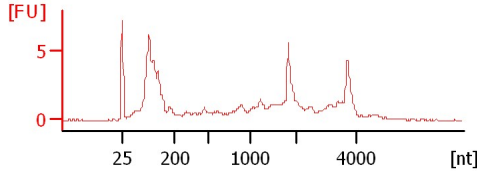
**535-6 Placenta RNA**  
RIN: 2.40



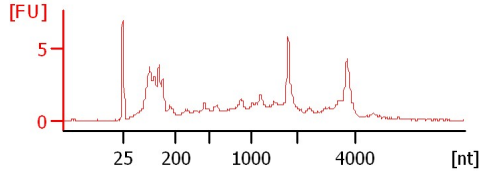
**535-5 Placenta RNA**  
RIN: 7.80



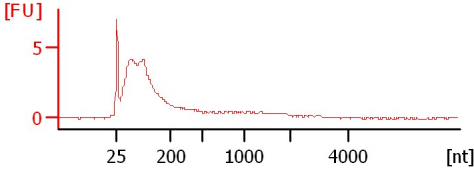
**448-5 Placenta RNA**  
RIN: 5.70



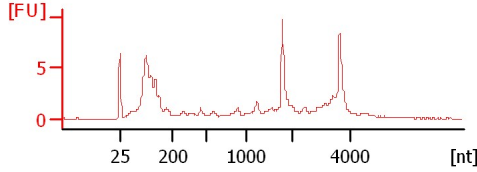
**448-2 Placenta RNA**  
RIN: 6



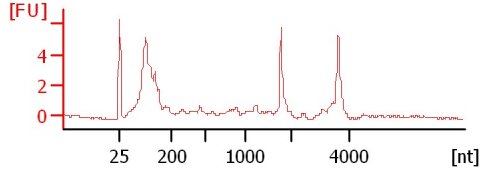
**448-1 Placenta RNA**  
RIN: 2.50



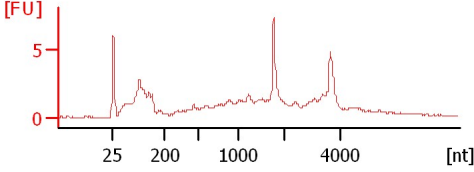
**535-1 Placenta RNA**  
RIN: 7.10



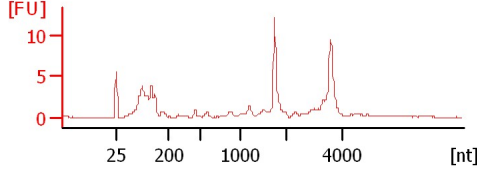
**444-4 Placenta RNA**  
RIN N/A



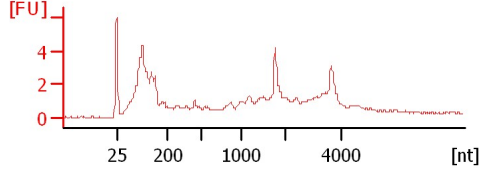
**444-5 Placenta RNA**  
RIN: 6



**536-5 Placenta RNA**  
RIN: 8.10



**536-6 Placenta RNA**  
RIN: 4.90



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
 Modified: 11/29/2016 12:08:51 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
448-3 Placenta RNA		✓	RIN: 8.50	
448-4 Placenta RNA		✓	RIN N/A	
535-6 Placenta RNA		✓	RIN: 2.40	
535-5 Placenta RNA		✓	RIN: 7.80	
448-5 Placenta RNA		✓	RIN: 5.70	
448-2 Placenta RNA		✓	RIN:6	
448-1 Placenta RNA		✓	RIN: 2.50	
535-1 Placenta RNA		✓	RIN: 7.10	
444-4 Placenta RNA		✓	RIN N/A	
444-5 Placenta RNA		✓	RIN:6	
536-5 Placenta RNA		✓	RIN: 8.10	
536-6 Placenta RNA		✓	RIN: 4.90	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 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

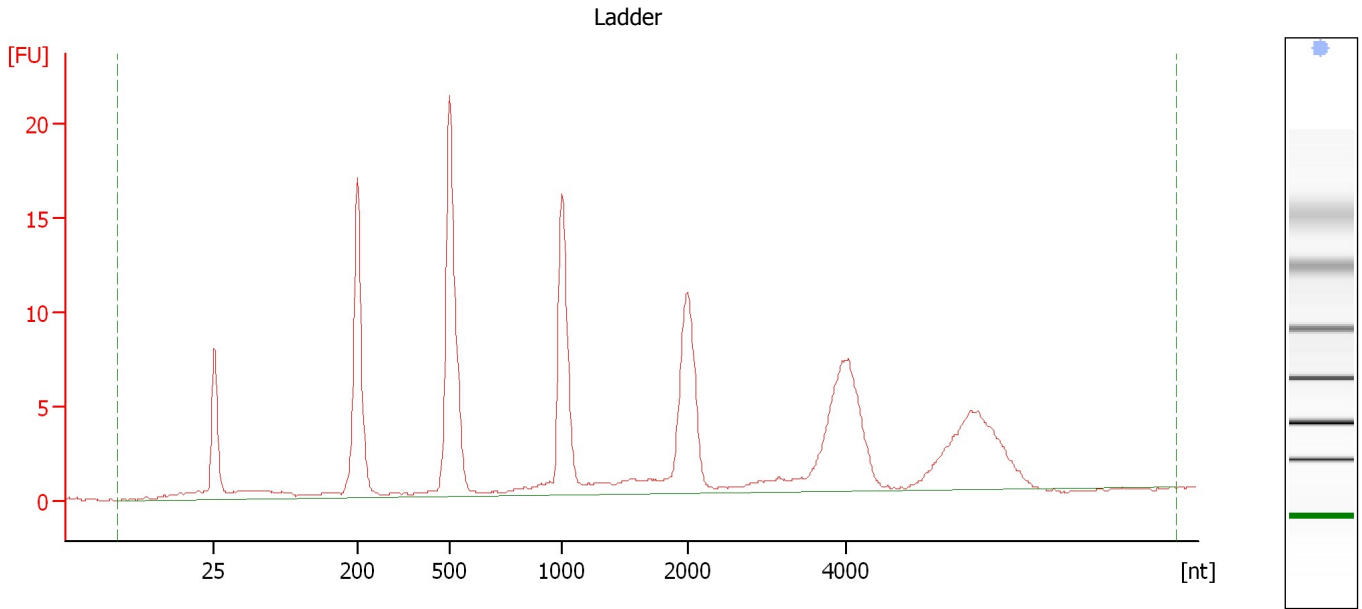
**Ladder**

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary**



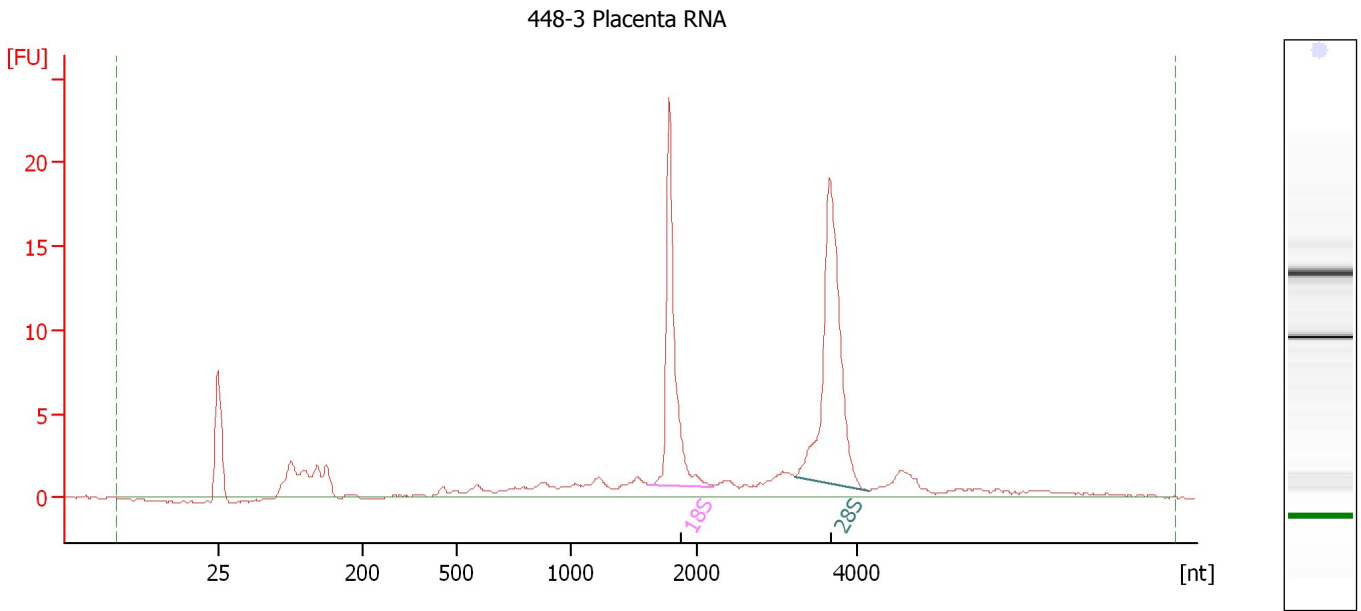
**Overall Results for Ladder**

RNA Area:	168.7	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\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 448-3 Placenta RNA**

RNA Area: 107.8 RNA Integrity Number (RIN): 8.5 (B.02.08)  
RNA Concentration: 96 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.50

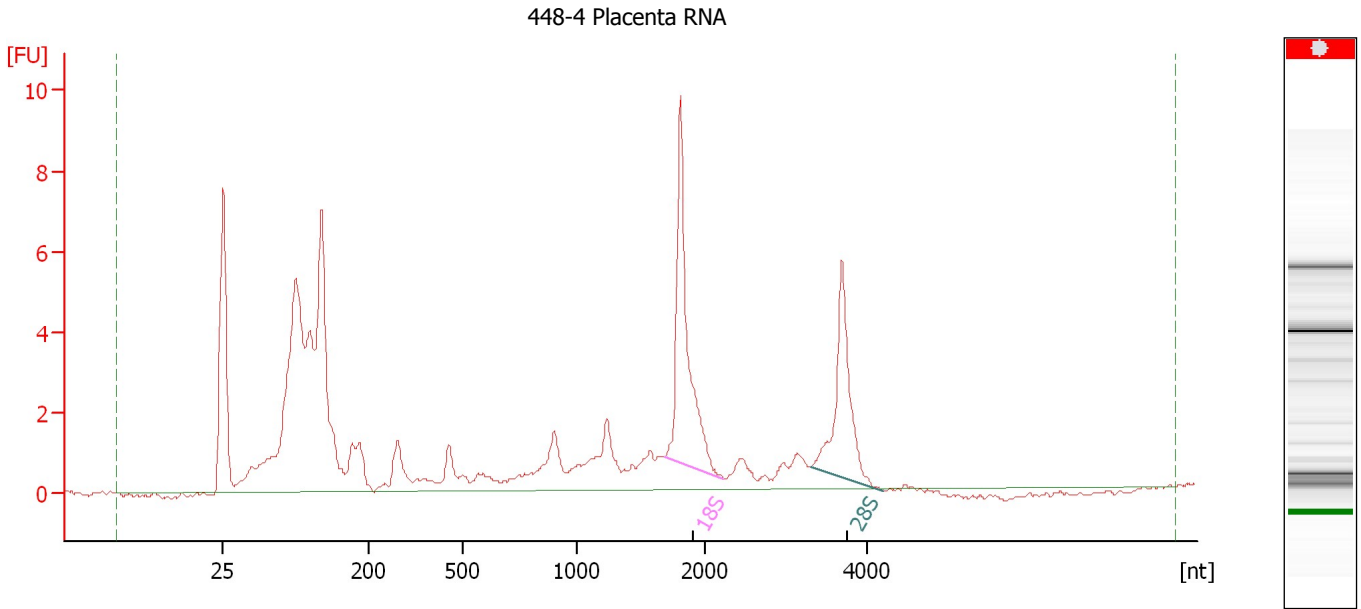
**Fragment table for sample 1 : 448-3 Placenta RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	2,205	22.5	20.8
28S	3,235	4,145	31.2	28.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
 Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 448-4 Placenta RNA**

RNA Area:	89.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	80 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]:	0.7	Result Flagging Label:	RIN N/A

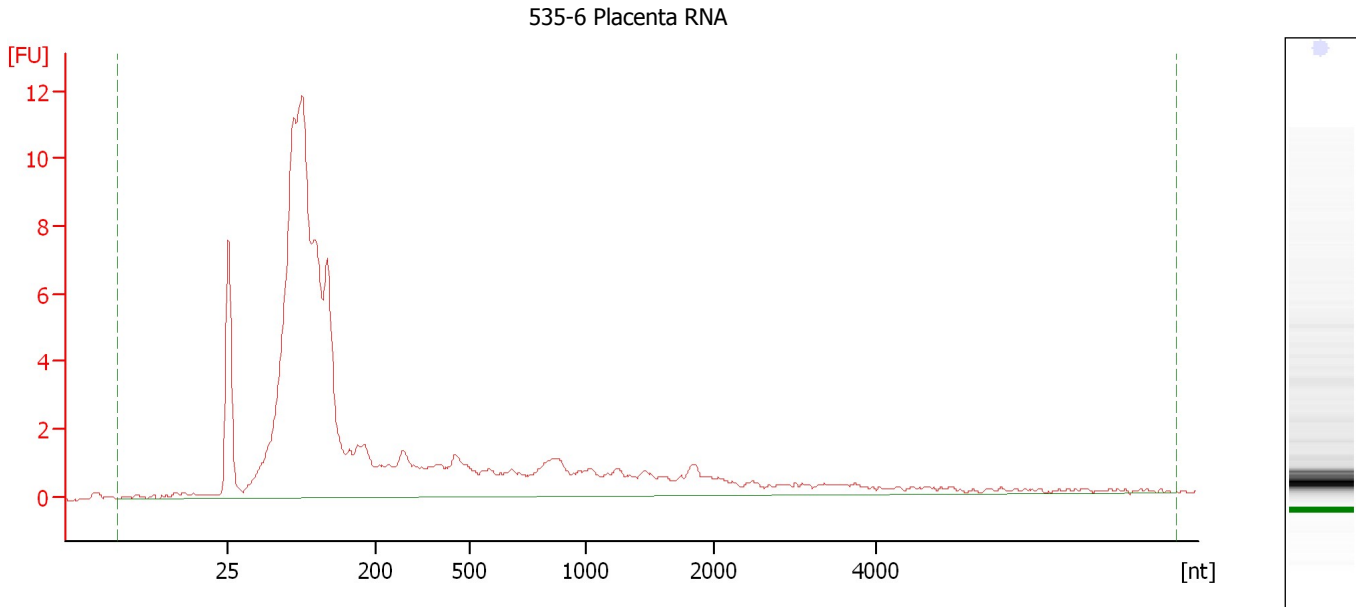
**Fragment table for sample 2 : 448-4 Placenta RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,678	2,234	11.2	12.5
28S	3,309	4,211	7.4	8.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary Continued ...**



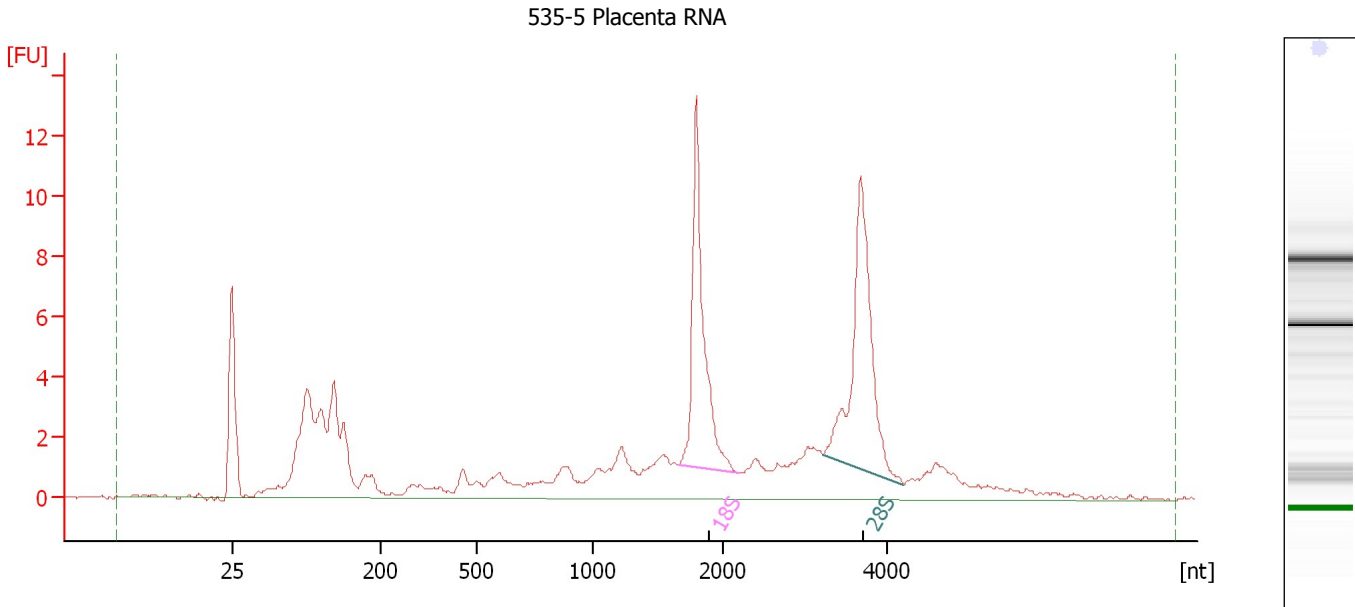
**Overall Results for sample 3 : 535-6 Placenta RNA**

RNA Area:	128.9	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	115 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]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 535-5 Placenta RNA**

RNA Area:	112.6	RNA Integrity Number (RIN):	7.8 (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]:	1.2	Result Flagging Label:	RIN: 7.80

**Fragment table for sample 4 : 535-5 Placenta RNA**

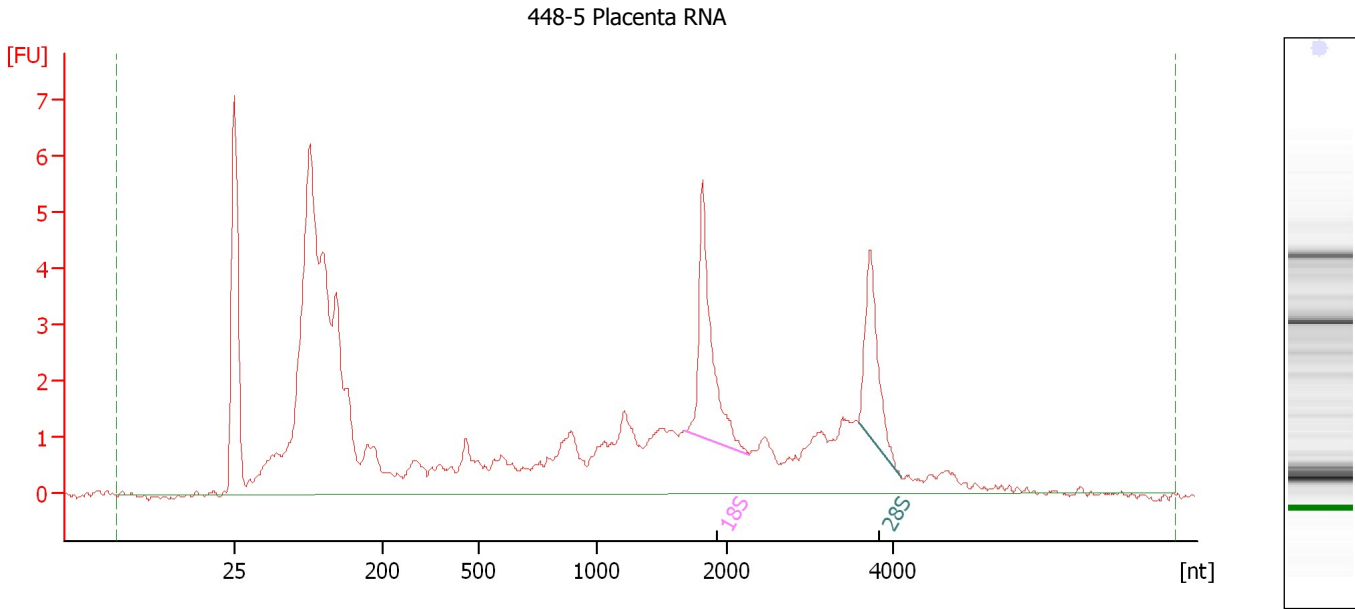
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	2,187	15.1	13.4
28S	3,203	4,193	17.6	15.6



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 448-5 Placenta RNA**

RNA Area: 97.1 RNA Integrity Number (RIN): 5.7 (B.02.08)  
RNA Concentration: 86 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN: 5.70

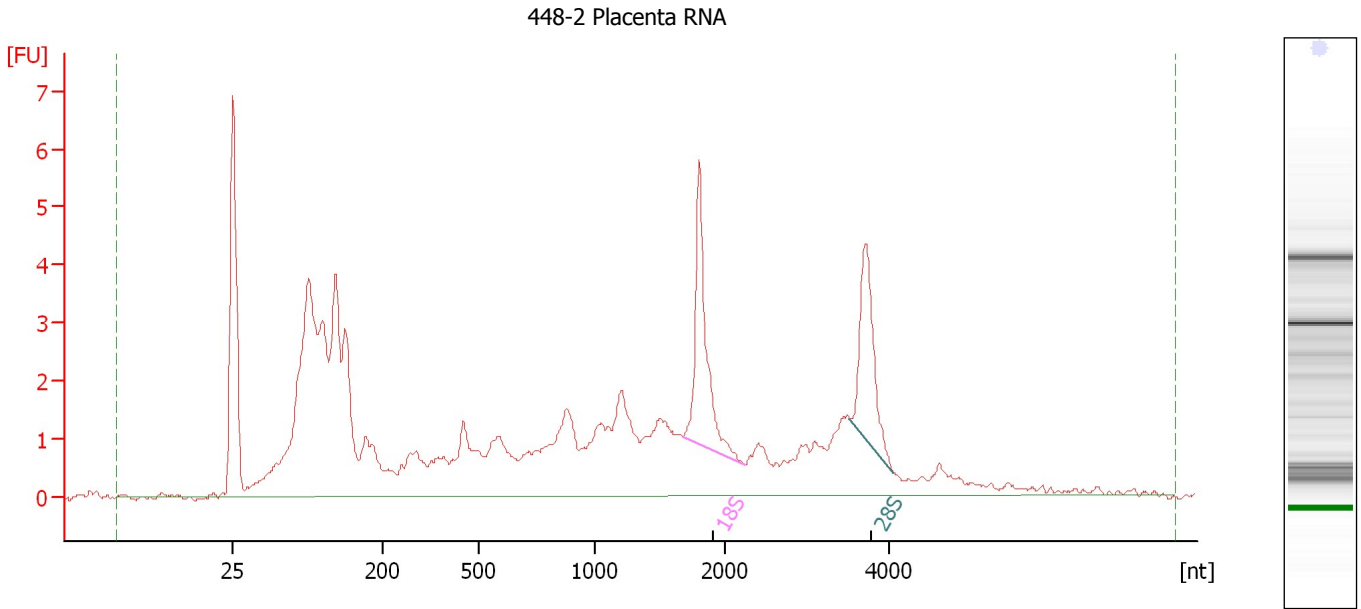
**Fragment table for sample 5 : 448-5 Placenta RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,668	2,266	6.5	6.6
28S	3,589	4,095	4.2	4.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 448-2 Placenta RNA**

RNA Area: 95.1 RNA Integrity Number (RIN): 6 (B.02.08)  
RNA Concentration: 85 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN:6

**Fragment table for sample 6 : 448-2 Placenta RNA**

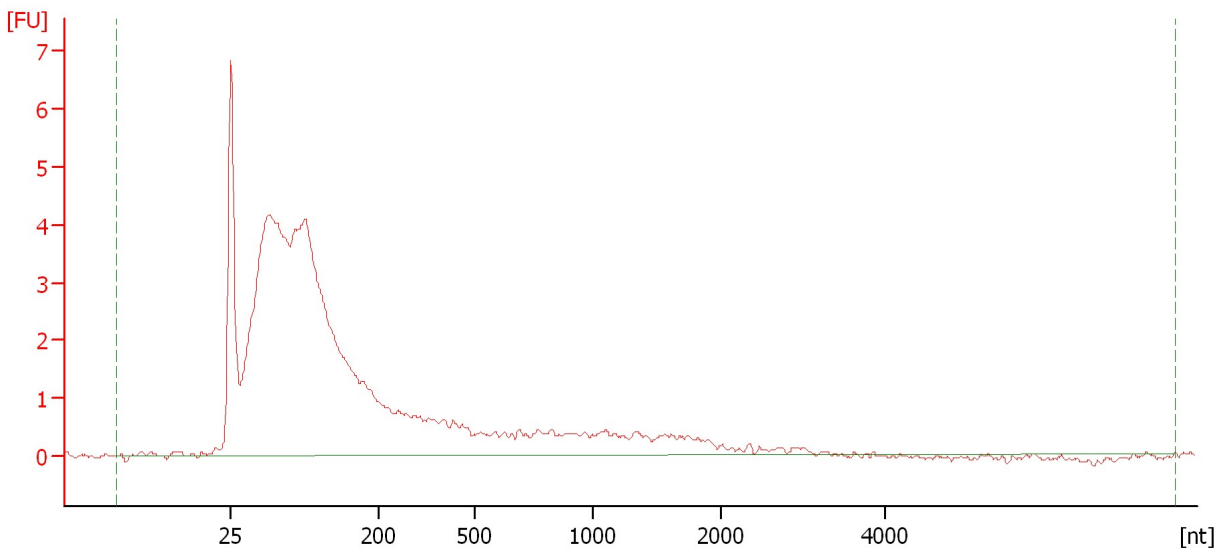
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	2,240	6.0	6.3
28S	3,513	4,046	4.5	4.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary Continued ...**

448-1 Placenta RNA



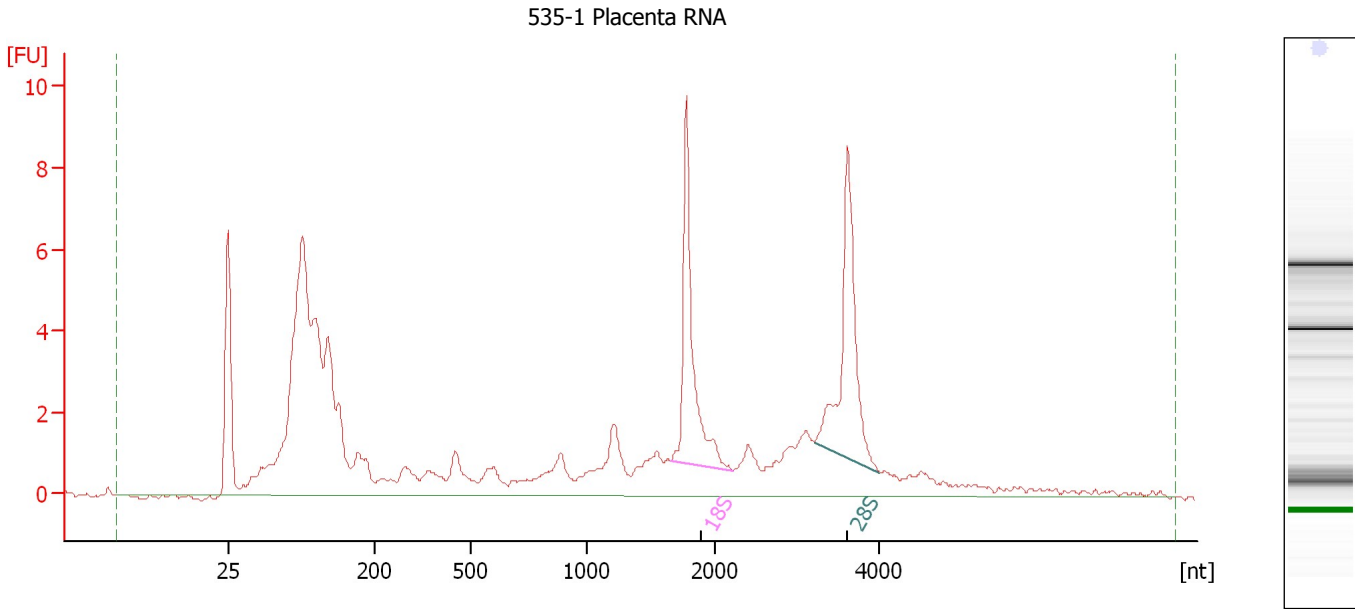
**Overall Results for sample 7 : 448-1 Placenta RNA**

RNA Area:	79.7	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	71 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]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 535-1 Placenta RNA**

RNA Area: 106.3 RNA Integrity Number (RIN): 7.1 (B.02.08)  
RNA Concentration: 95 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 7.10

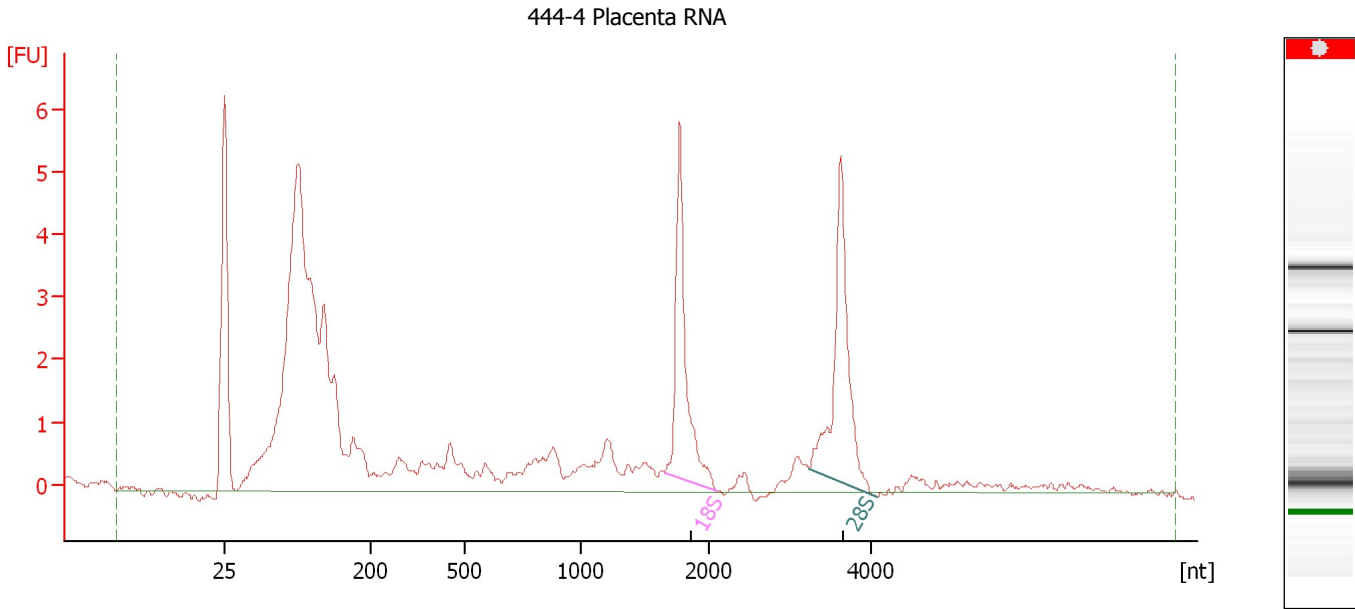
**Fragment table for sample 8 : 535-1 Placenta RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	2,211	9.7	9.1
28S	3,222	4,023	10.1	9.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 444-4 Placenta RNA**

RNA Area: 69.0 RNA Integrity Number (RIN): N/A (B.02.08)  
RNA Concentration: 61 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN N/A

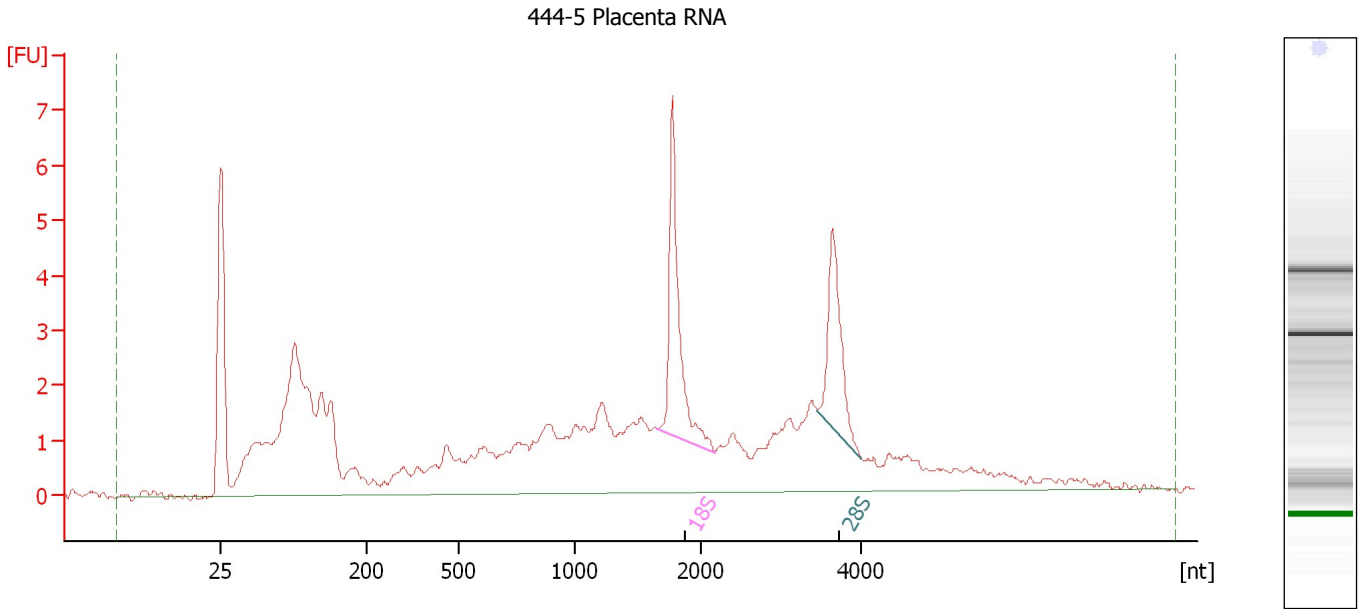
**Fragment table for sample 9 : 444-4 Placenta RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	2,090	6.3	9.1
28S	3,239	4,072	7.2	10.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 444-5 Placenta RNA**

RNA Area: 93.8 RNA Integrity Number (RIN): 6 (B.02.08)  
RNA Concentration: 83 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN:6

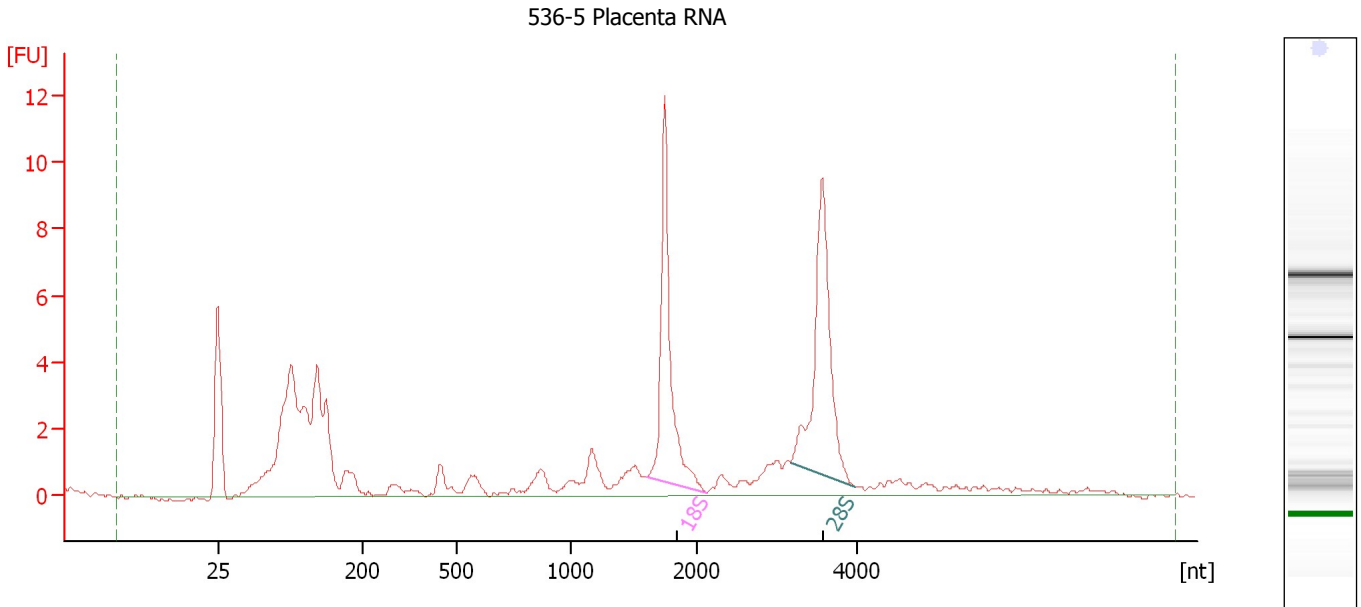
**Fragment table for sample 10 : 444-5 Placenta RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	2,167	6.7	7.1
28S	3,458	4,005	4.6	4.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 536-5 Placenta RNA**

RNA Area: 85.0 RNA Integrity Number (RIN): 8.1 (B.02.08)  
RNA Concentration: 76 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 8.10

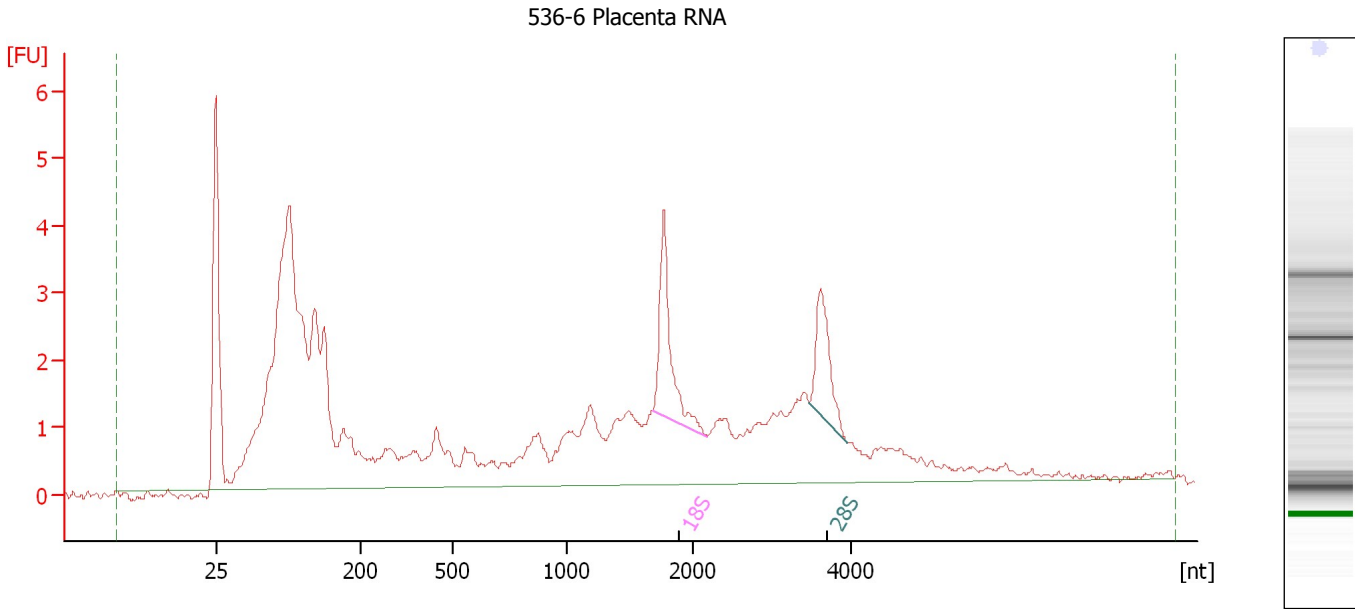
**Fragment table for sample 11 : 536-5 Placenta RNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	2,125	12.3	14.5
28S	3,168	3,971	13.9	16.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 536-6 Placenta RNA**

RNA Area:	84.3	RNA Integrity Number (RIN):	4.9 (B.02.08)
RNA Concentration:	75 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]:	0.7	Result Flagging Label:	RIN: 4.90

**Fragment table for sample 12 : 536-6 Placenta RNA**

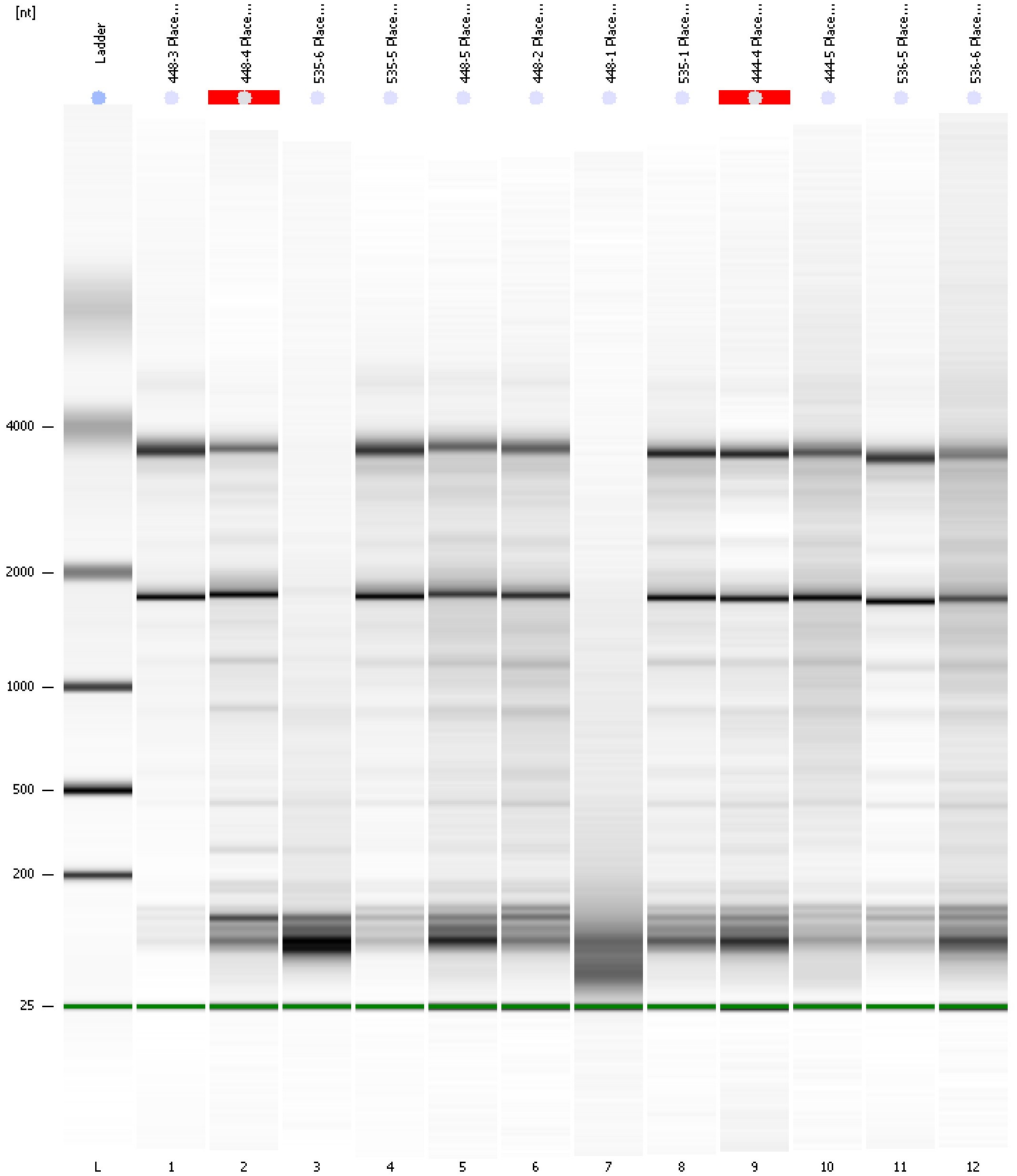
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,679	2,191	3.8	4.5
28S	3,453	3,936	2.6	3.1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
Modified: 11/29/2016 12:08:51 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-29\2016-11-29\_001.xad

Created: 11/29/2016 11:29:06 AM  
 Modified: 11/29/2016 12:08:51 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		11/29/2016 11:52:53 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\2016-11-29\2016-11-29_001.xad)		Instrument	Run		11/29/2016 11:29:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/29/2016 11:29:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/29/2016 11:29:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/29/2016 11:29:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/29/2016 11:29:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/29/2016 11:29:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/29/2016 11:29:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1