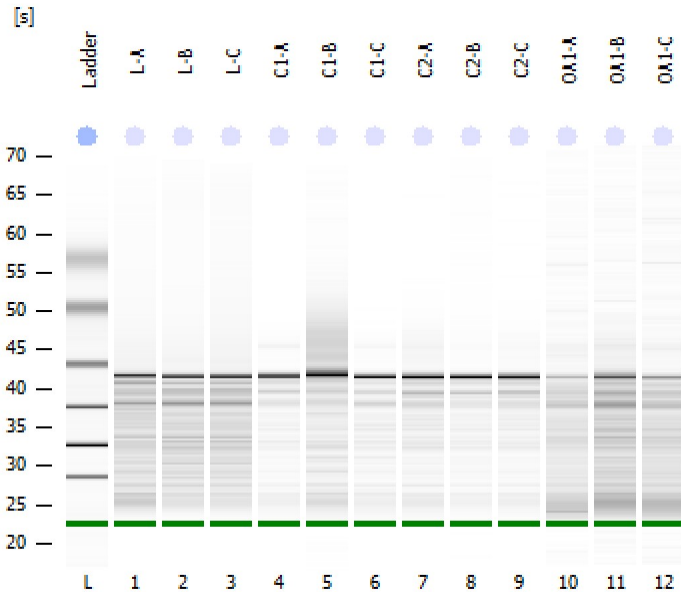


Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
 Serial#: DE34903152      Type: G2938C

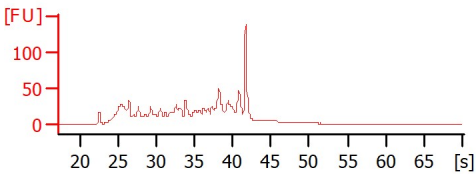
Assay Information:

Assay Origin Path: C:\Program Files (x86)\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.

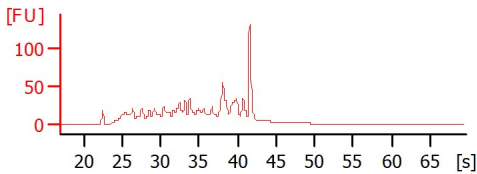
Chip Information:

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

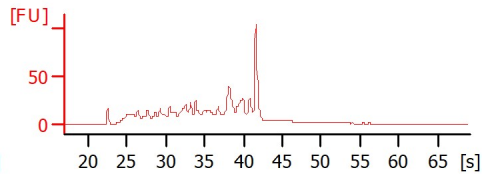
**L-A**  
 Gold/ Banker Samples  
 RIN: 4.50



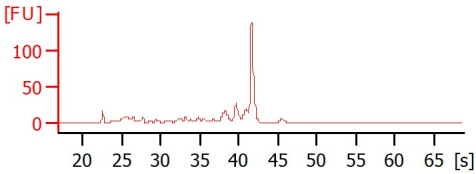
**L-B**  
 RIN: 4.60



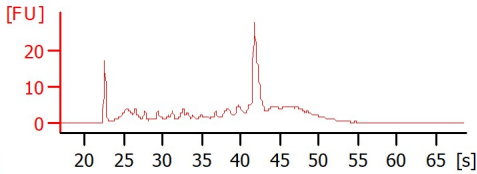
**L-C**  
 RIN: 4.70



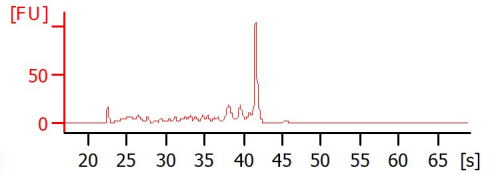
**C1-A**  
 RIN: 6.10



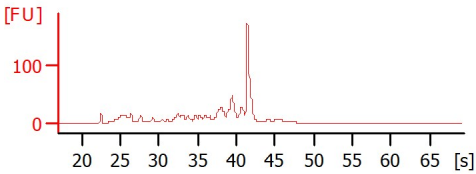
**C1-B**  
 RIN: 6.40



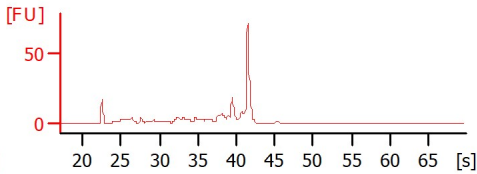
**C1-C**  
 RIN: 5.80



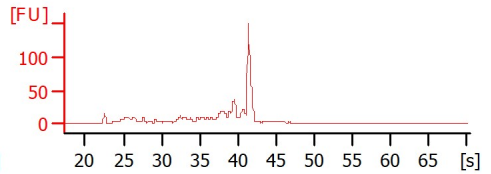
**C2-A**  
 RIN: 5.60



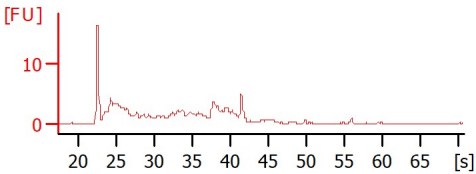
**C2-B**  
 RIN: 6



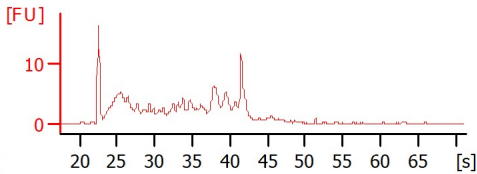
**C2-C**  
 RIN: 5.80



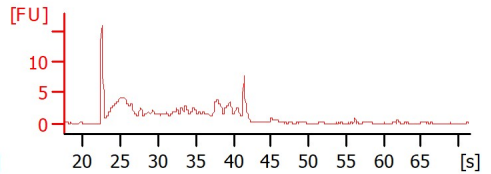
**OA1-A**  
 RIN: 5.20



**OA1-B**  
 RIN: 5.10



**OA1-C**  
 RIN: 5.20



Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
L-A	Gold/ Banker Samples	✓	RIN: 4.50	
L-B		✓	RIN: 4.60	
L-C		✓	RIN: 4.70	
C1-A		✓	RIN: 6.10	
C1-B		✓	RIN: 6.40	
C1-C		✓	RIN: 5.80	
C2-A		✓	RIN: 5.60	
C2-B		✓	RIN:6	
C2-C		✓	RIN: 5.80	
OA1-A		✓	RIN: 5.20	
OA1-B		✓	RIN: 5.10	
OA1-C		✓	RIN: 5.20	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 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

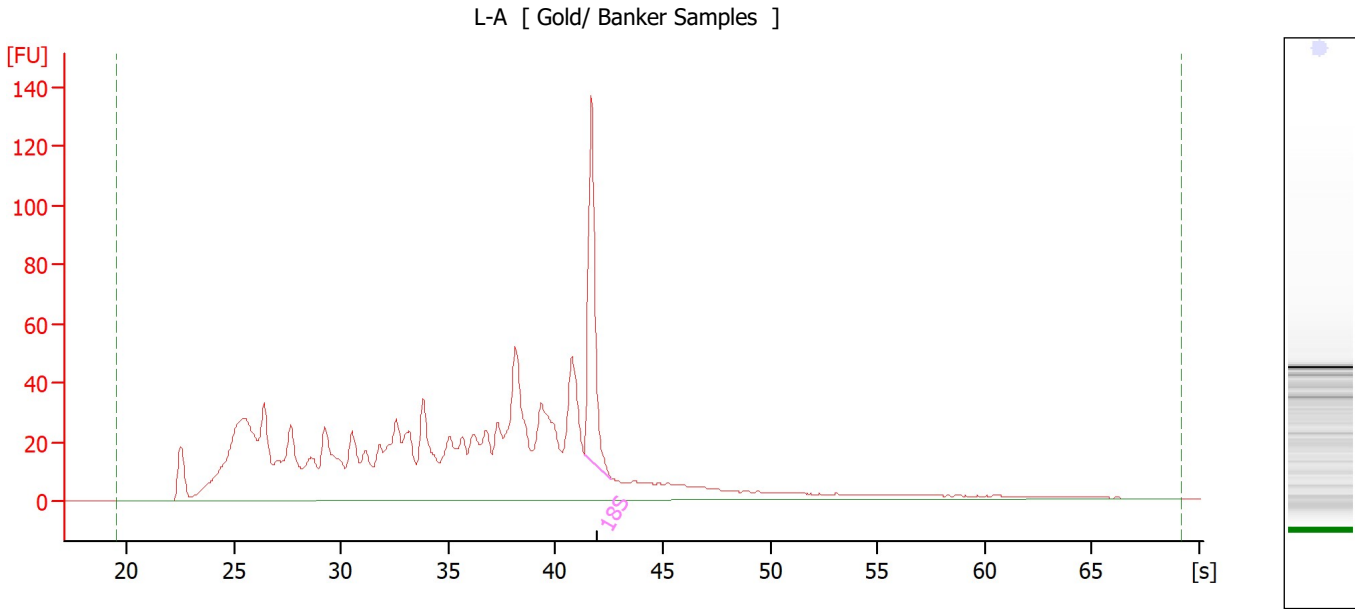
**Ladder**

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

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electropherogram Summary**



**Overall Results for sample 1 : L-A**

RNA Area:	1,330.3	RNA Integrity Number (RIN):	4.5 (B.02.10)
RNA Concentration:	713 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: 4.50

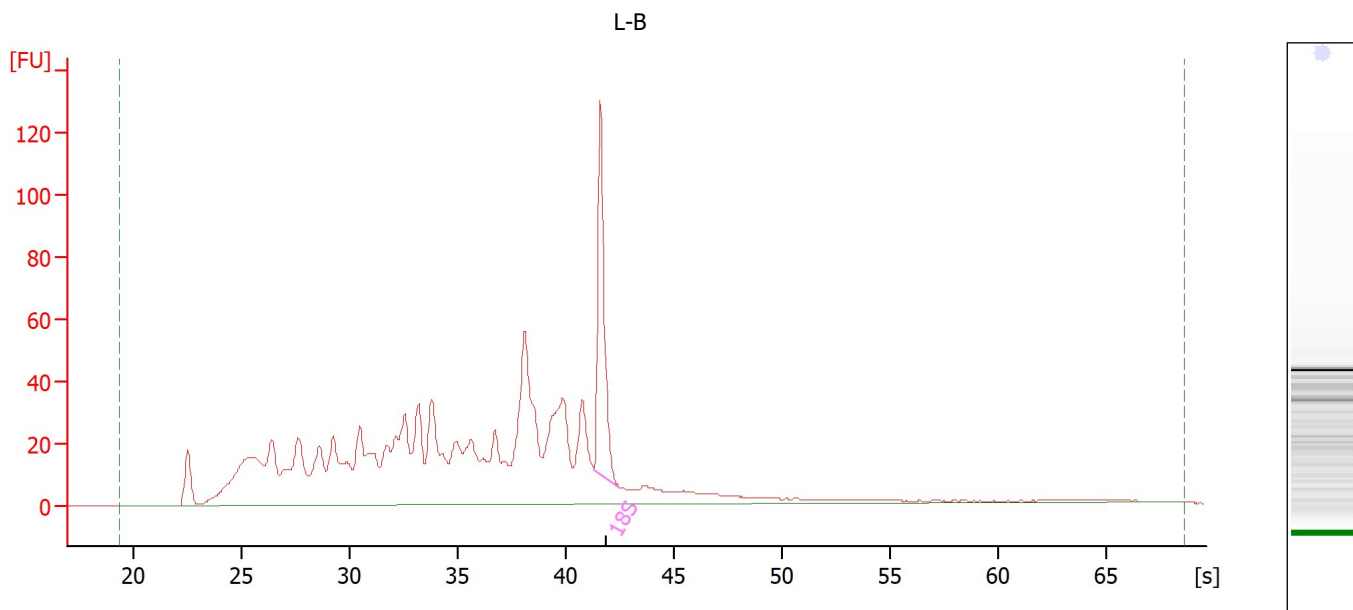
**Fragment table for sample 1 : L-A**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.34	42.59	102.7	7.7

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : L-B**

RNA Area:	1,167.1	RNA Integrity Number (RIN):	4.6 (B.02.10)
RNA Concentration:	626 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: 4.60

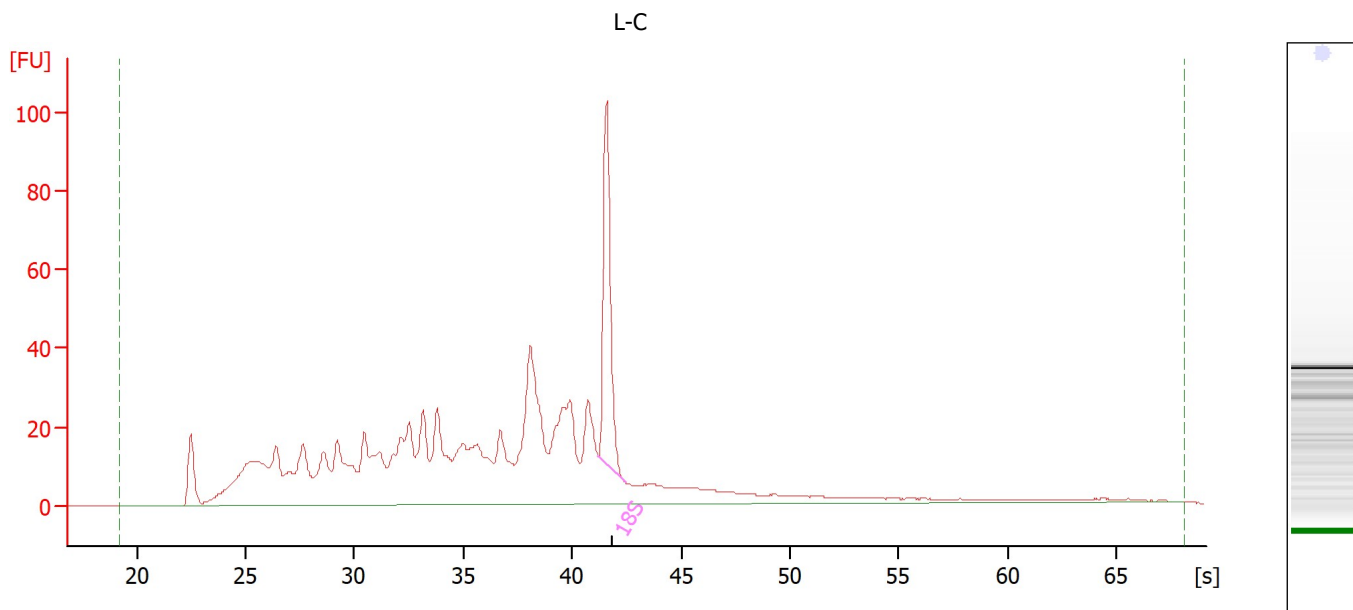
**Fragment table for sample 2 : L-B**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.27	42.47	100.1	8.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : L-C**

RNA Area:	931.0	RNA Integrity Number (RIN):	4.7 (B.02.10)
RNA Concentration:	499 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: 4.70

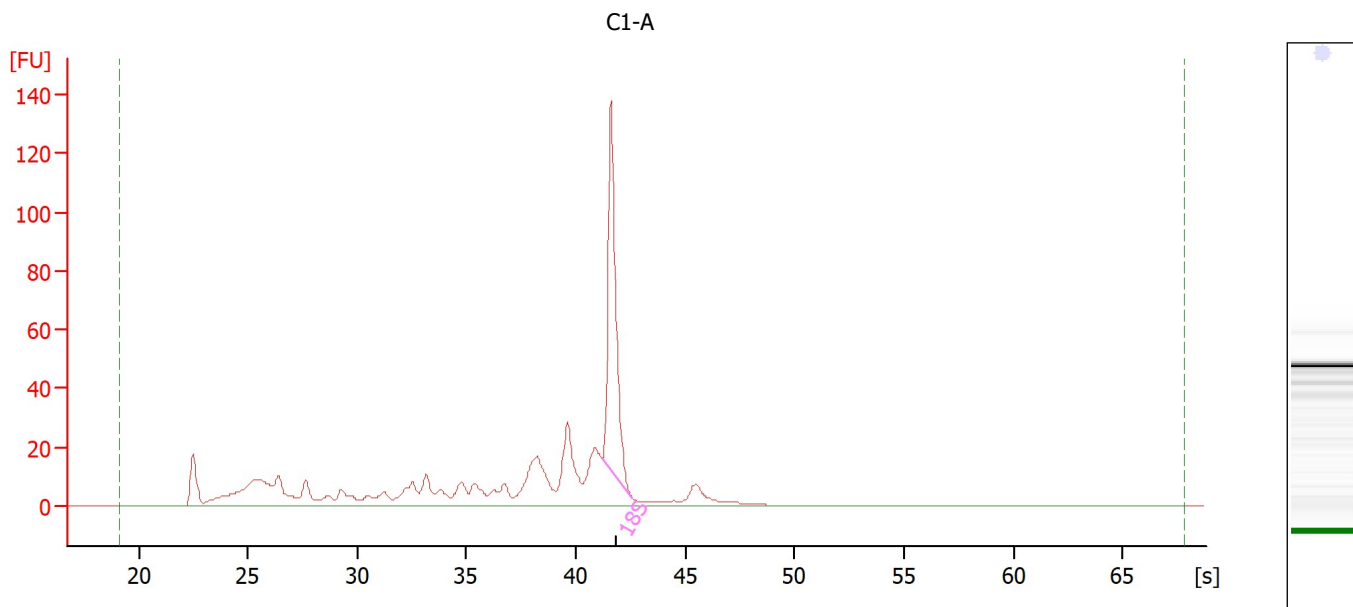
**Fragment table for sample 3 : L-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.20	42.43	79.7	8.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : C1-A**

RNA Area:	540.3	RNA Integrity Number (RIN):	6.1 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	290 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: 6.10

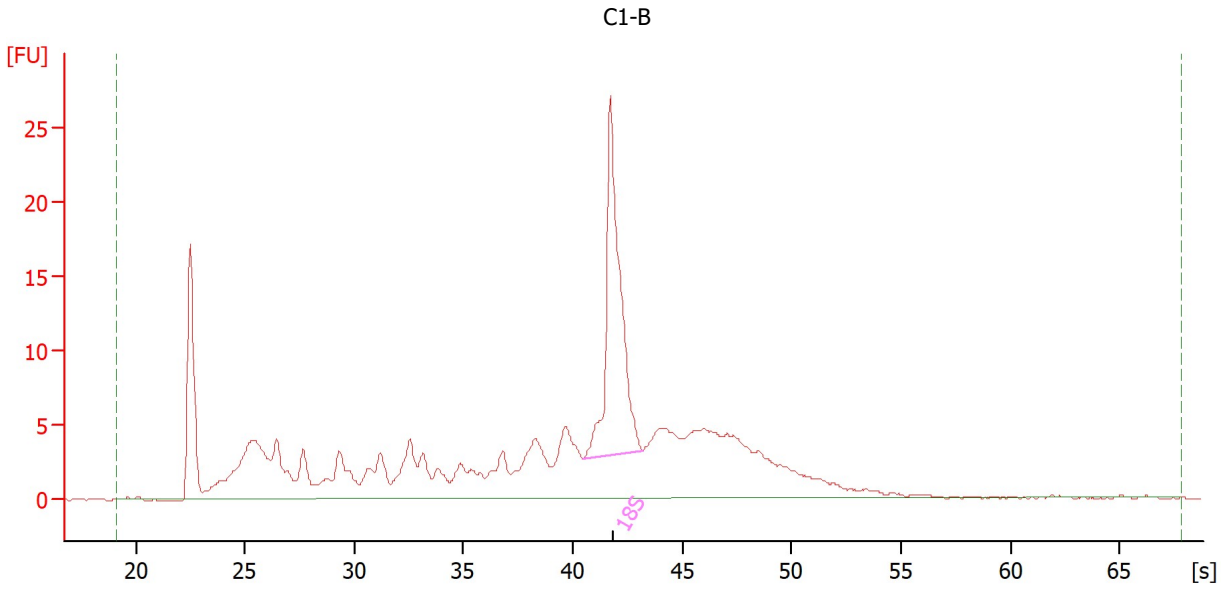
**Fragment table for sample 4 : C1-A**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.22	42.59	124.9	23.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : C1-B**

RNA Area:	243.7	RNA Integrity Number (RIN):	6.4 (B.02.10)
RNA Concentration:	131 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: 6.40

**Fragment table for sample 5 : C1-B**

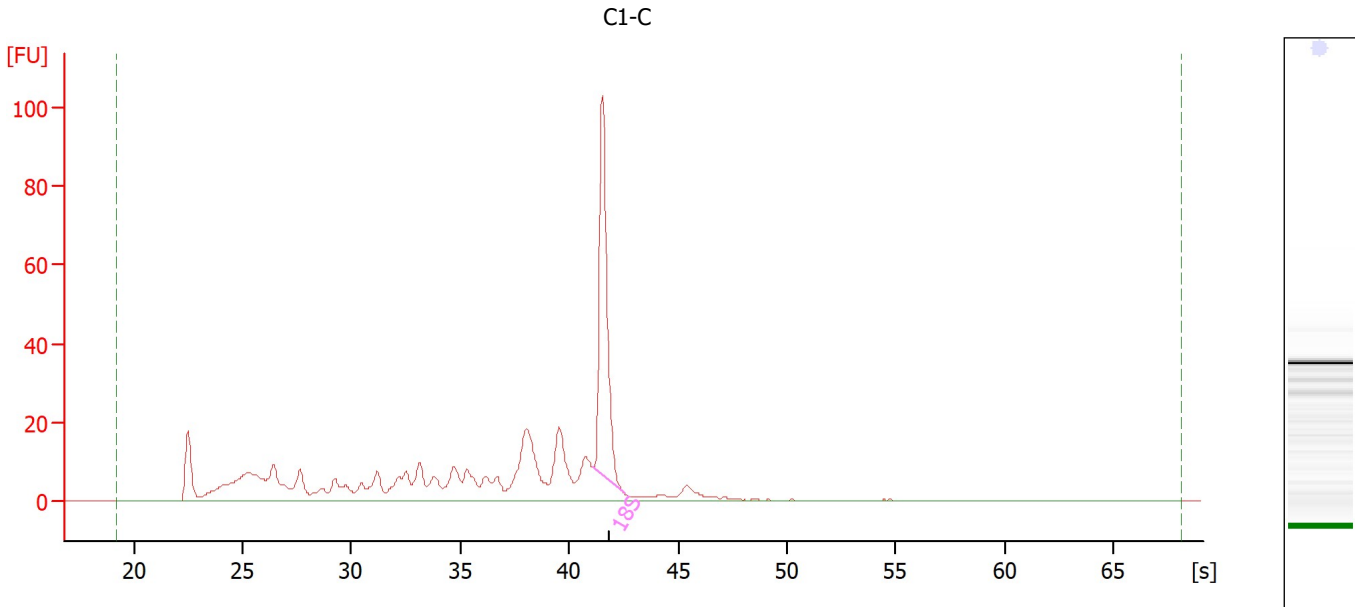
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.48	43.18	41.8	17.2



Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : C1-C**

RNA Area:	442.7	RNA Integrity Number (RIN):	5.8 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	237 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: 5.80

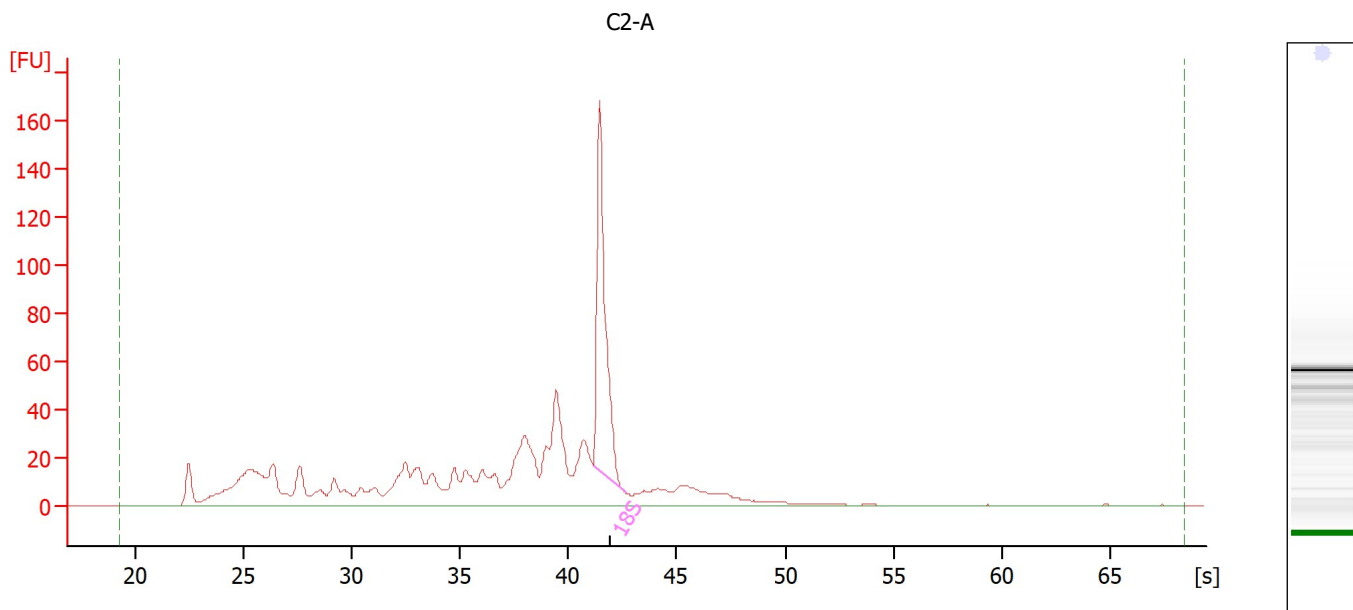
**Fragment table for sample 6 : C1-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.10	42.53	90.2	20.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : C2-A**

RNA Area:	961.4	RNA Integrity Number (RIN):	5.6 (B.02.10)
RNA Concentration:	515 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: 5.60

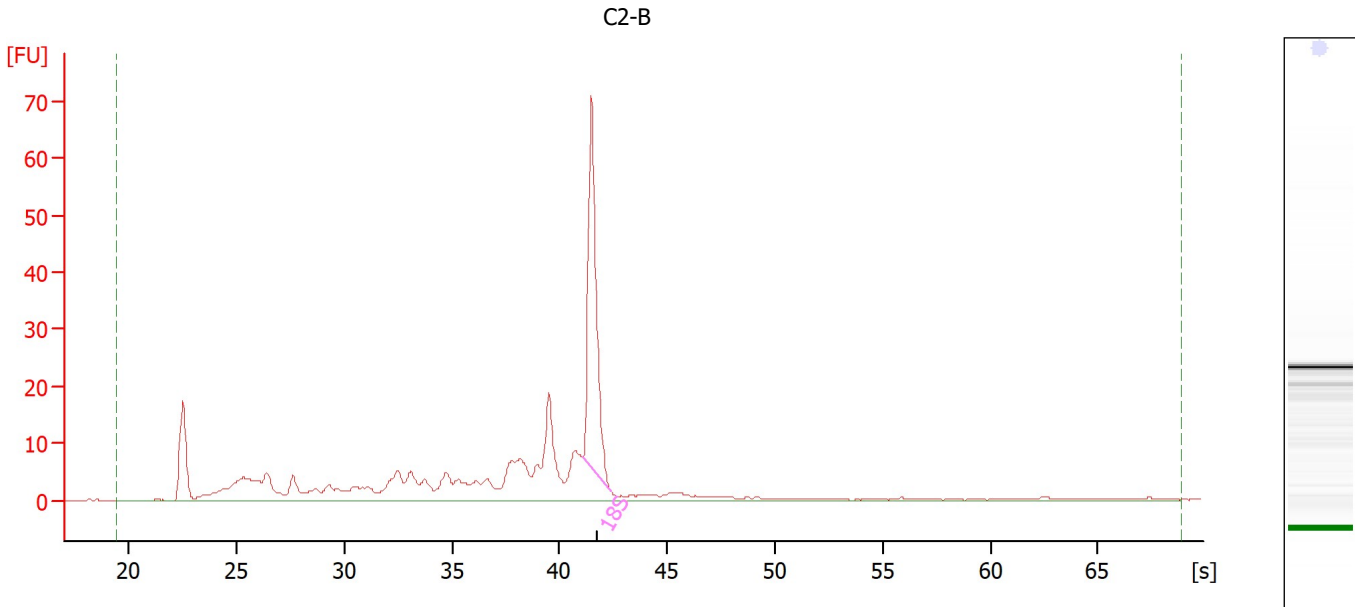
**Fragment table for sample 7 : C2-A**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.13	42.62	166.0	17.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : C2-B**

RNA Area:	290.3	RNA Integrity Number (RIN):	6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	156 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:6

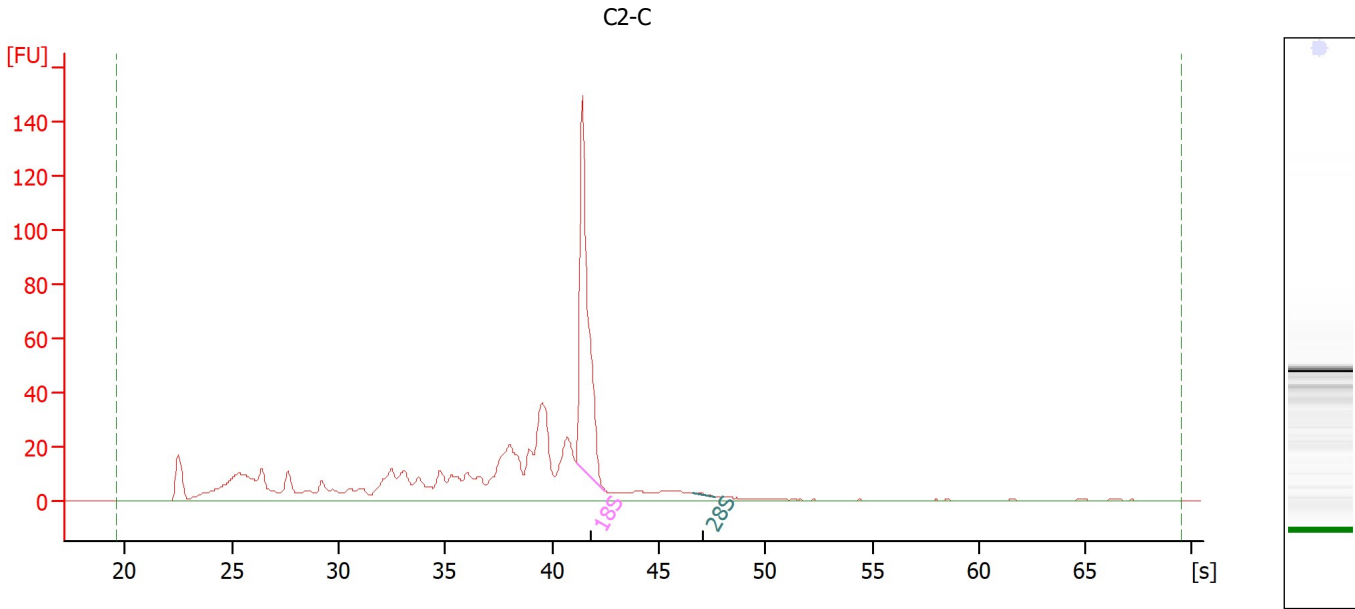
**Fragment table for sample 8 : C2-B**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.11	42.41	65.4	22.5

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : C2-C**

RNA Area:	685.0	RNA Integrity Number (RIN):	5.8 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	367 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: 5.80

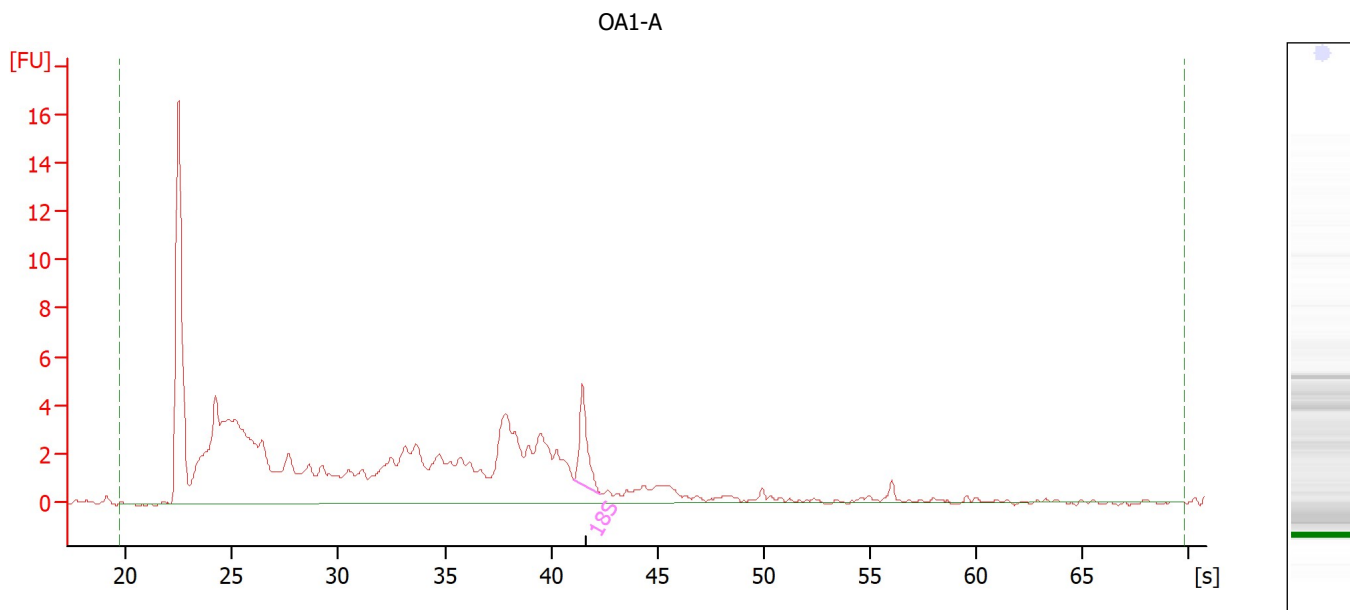
**Fragment table for sample 9 : C2-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.12	42.48	151.0	22.0
28S	46.56	47.67	0.8	0.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : OA1-A**

RNA Area:	124.5	RNA Integrity Number (RIN):	5.2 (B.02.10)
RNA Concentration:	67 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: 5.20

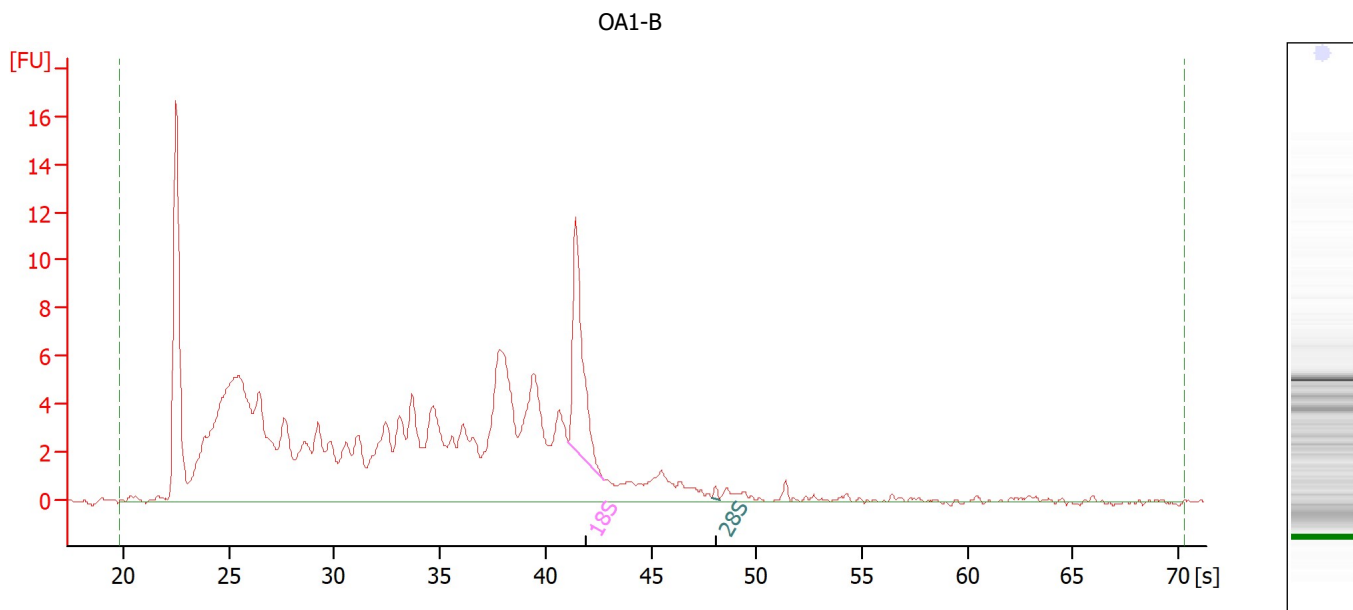
**Fragment table for sample 10 : OA1-A**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.11	42.32	4.1	3.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : OA1-B**

RNA Area:	208.0	RNA Integrity Number (RIN):	5.1 (B.02.10)
RNA Concentration:	111 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: 5.10

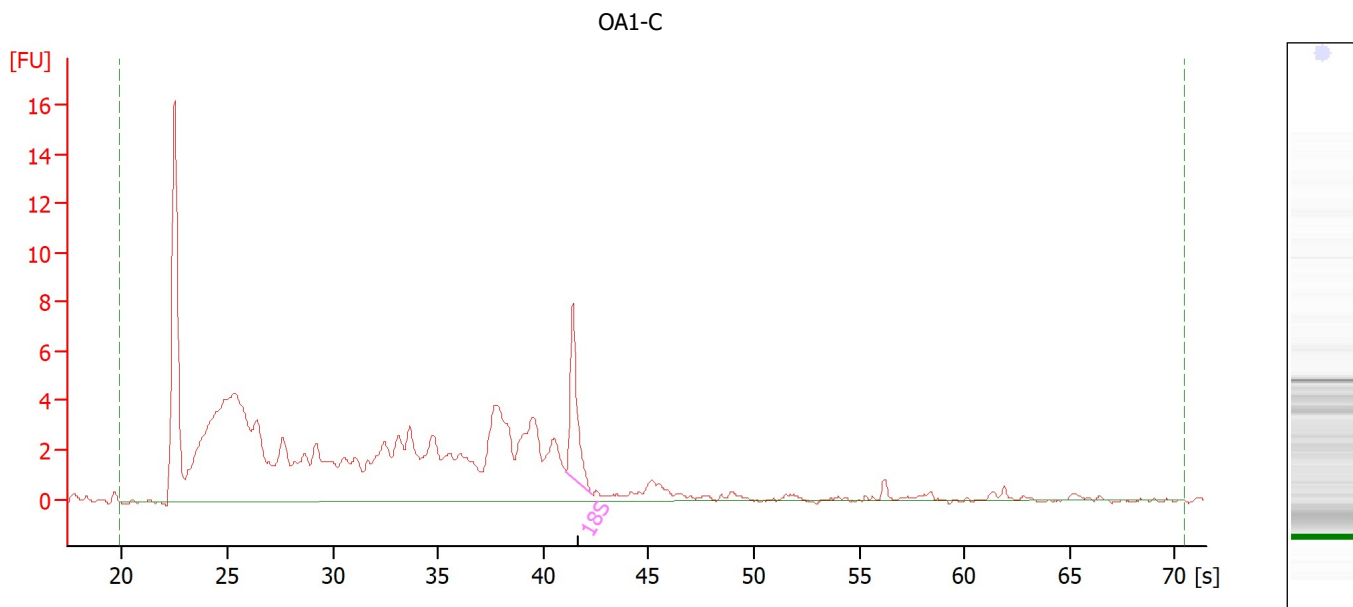
**Fragment table for sample 11 : OA1-B**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.08	42.76	11.9	5.7
28S	47.85	48.26	0.2	0.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
 Modified: 12/4/2019 3:15:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : OA1-C**

RNA Area:	146.3	RNA Integrity Number (RIN):	5.2 (B.02.10)
RNA Concentration:	78 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: 5.20

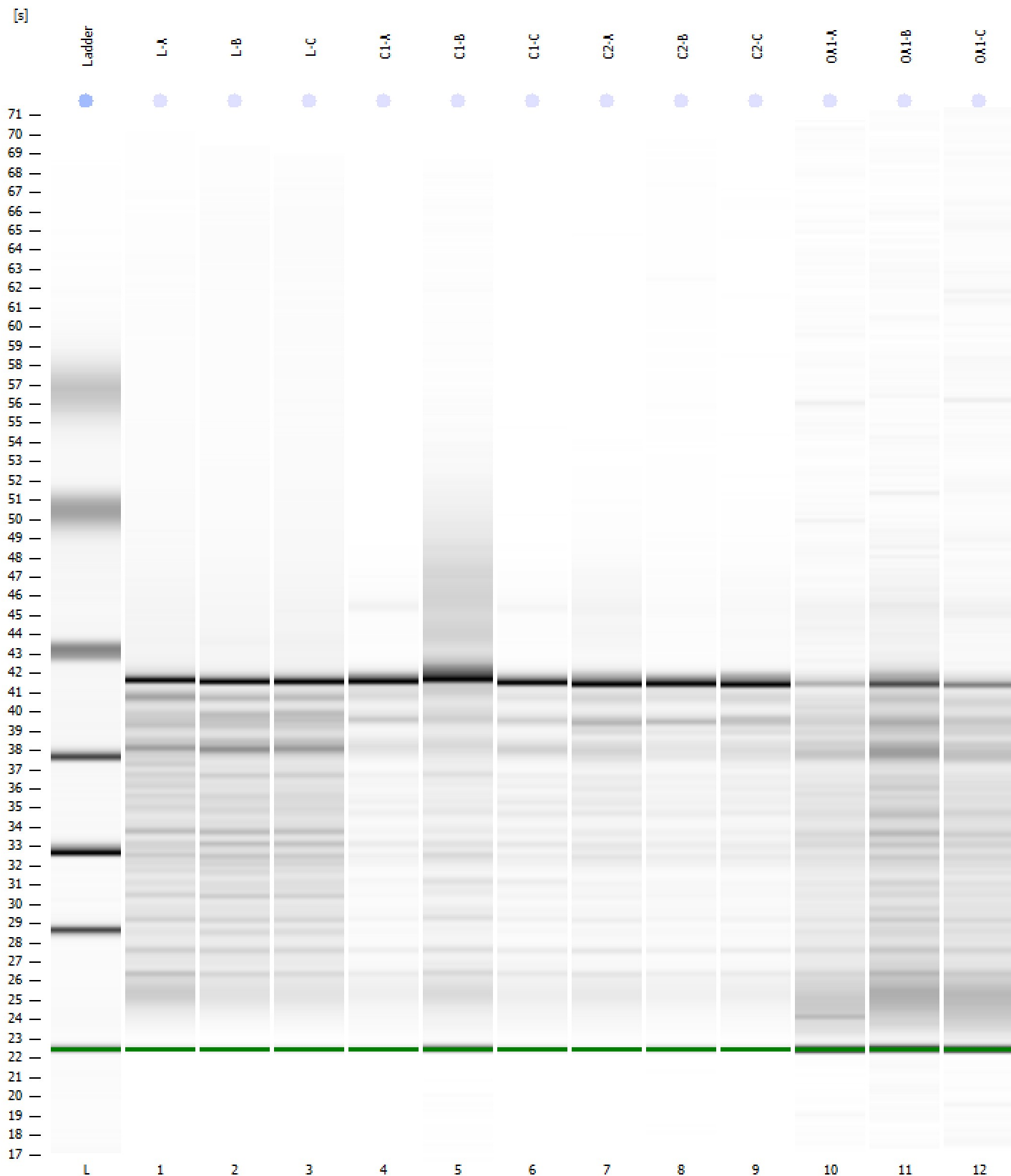
**Fragment table for sample 12 : OA1-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.07	42.30	6.6	4.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
Modified: 12/4/2019 3:15:50 PM

Gel Image



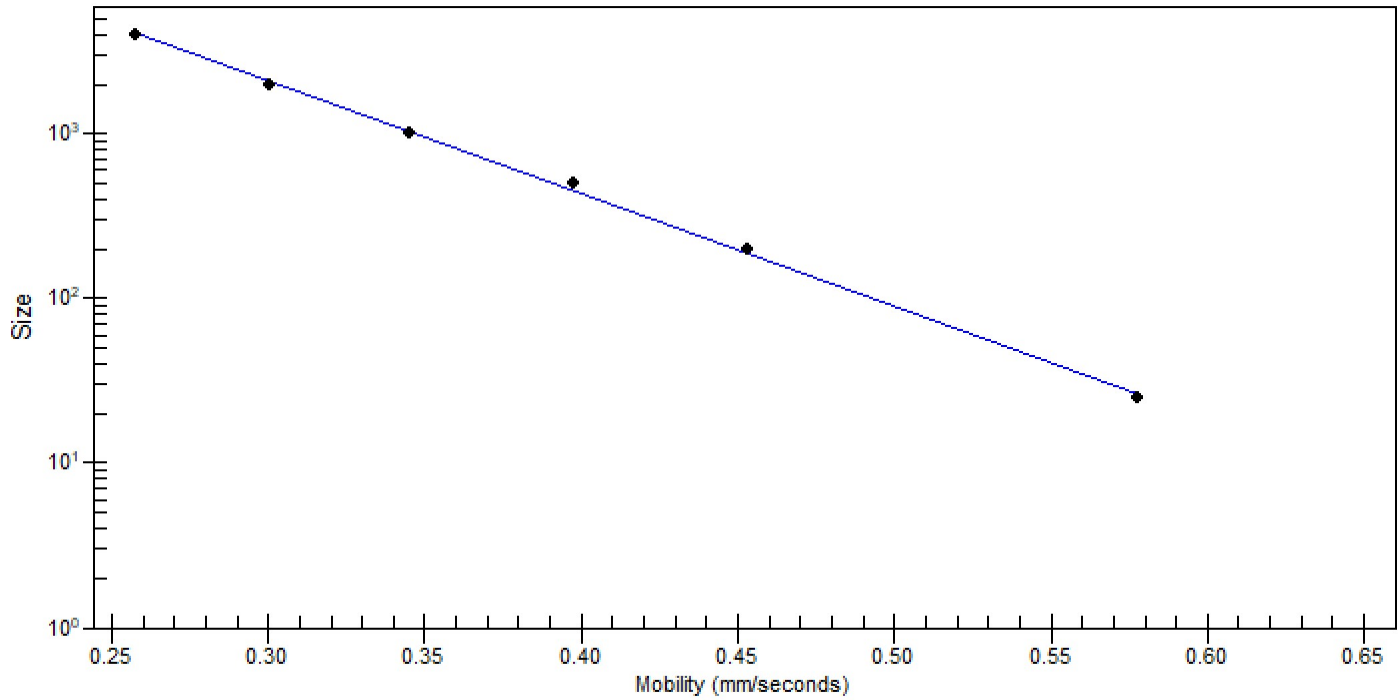


Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad

Created: 12/4/2019 2:02:26 PM  
Modified: 12/4/2019 3:15:50 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano Created: 12/4/2019 2:02:26 PM  
 Data Path: Z:\...04\Bioanalyzer1\_Eukaryote Total RNA Nano\_2019-12-04\_001.xad Modified: 12/4/2019 3:15:50 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		12/4/2019 2:26:15 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-12-04\Bioanalyze r1_Eukaryote Total RNA Nano_2019-12-04_001.xad)		Instrument	Run		12/4/2019 2:02:32 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/4/2019 2:02:32 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/4/2019 2:02:32 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/4/2019 2:02:32 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/4/2019 2:02:32 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/4/2019 2:02:32 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/4/2019 2:02:32 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB