

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad

Created: 4/7/2017 1:26:47 PM
Modified: 4/7/2017 1:50:48 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)

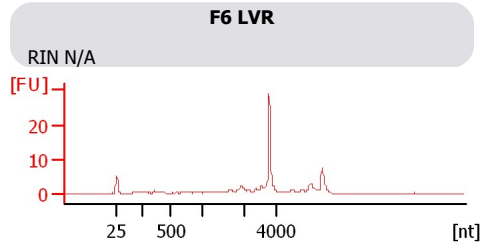
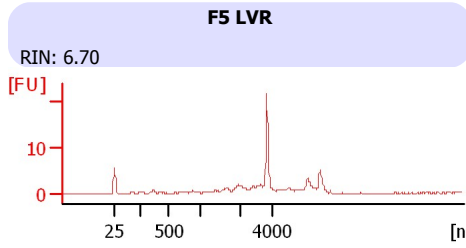
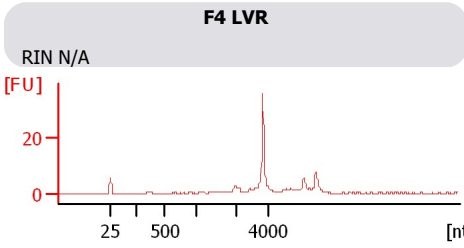
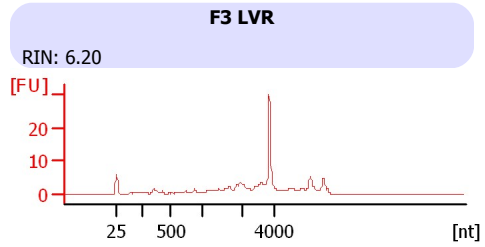
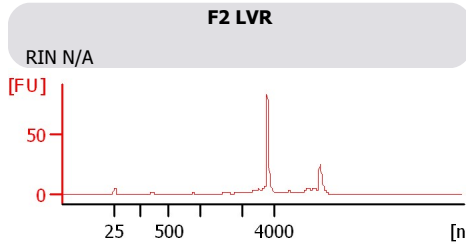
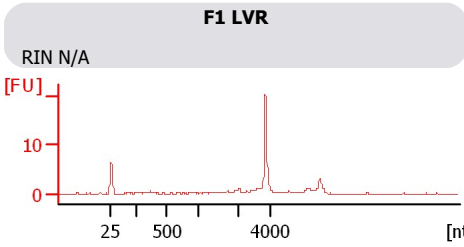
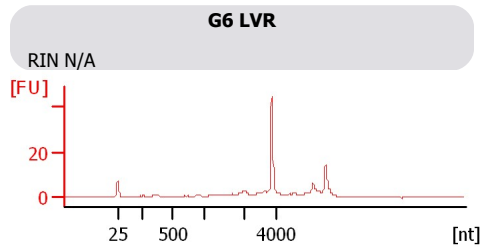
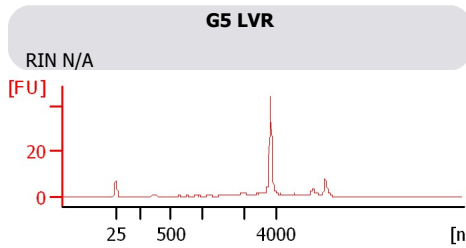
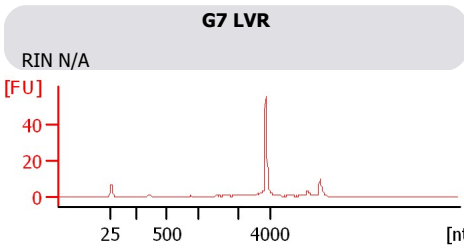
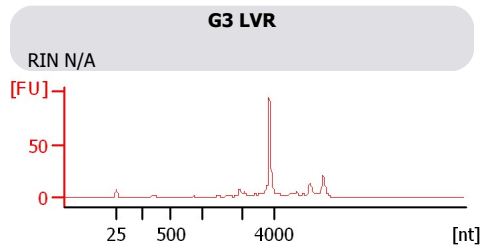
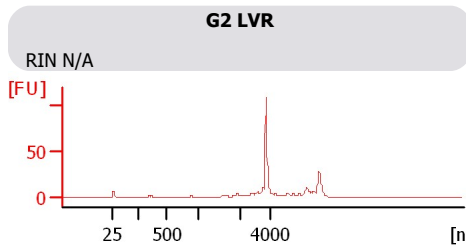
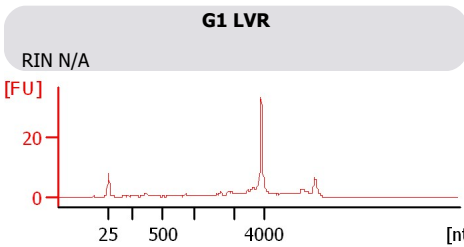
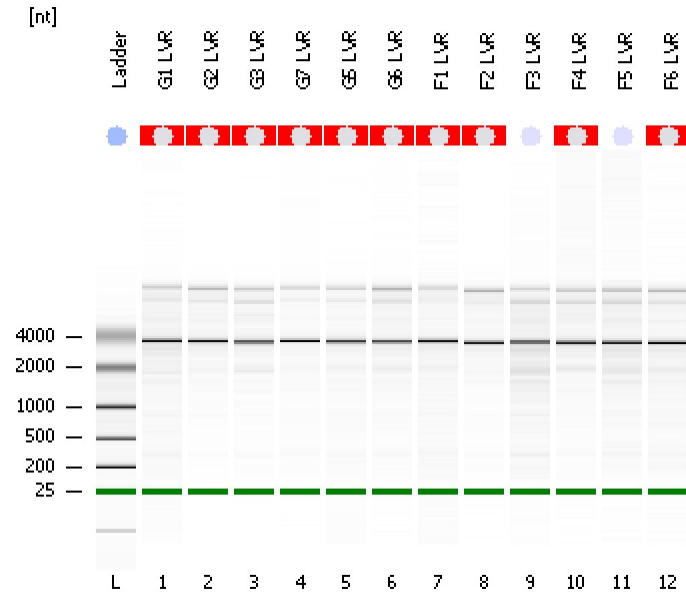
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
G1 LVR		✓	RIN N/A	
G2 LVR		✓	RIN N/A	
G3 LVR		✓	RIN N/A	
G7 LVR		✓	RIN N/A	
G5 LVR		✓	RIN N/A	
G6 LVR		✓	RIN N/A	
F1 LVR		✓	RIN N/A	
F2 LVR		✓	RIN N/A	
F3 LVR		✓	RIN: 6.20	
F4 LVR		✓	RIN N/A	
F5 LVR		✓	RIN: 6.70	
F6 LVR		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

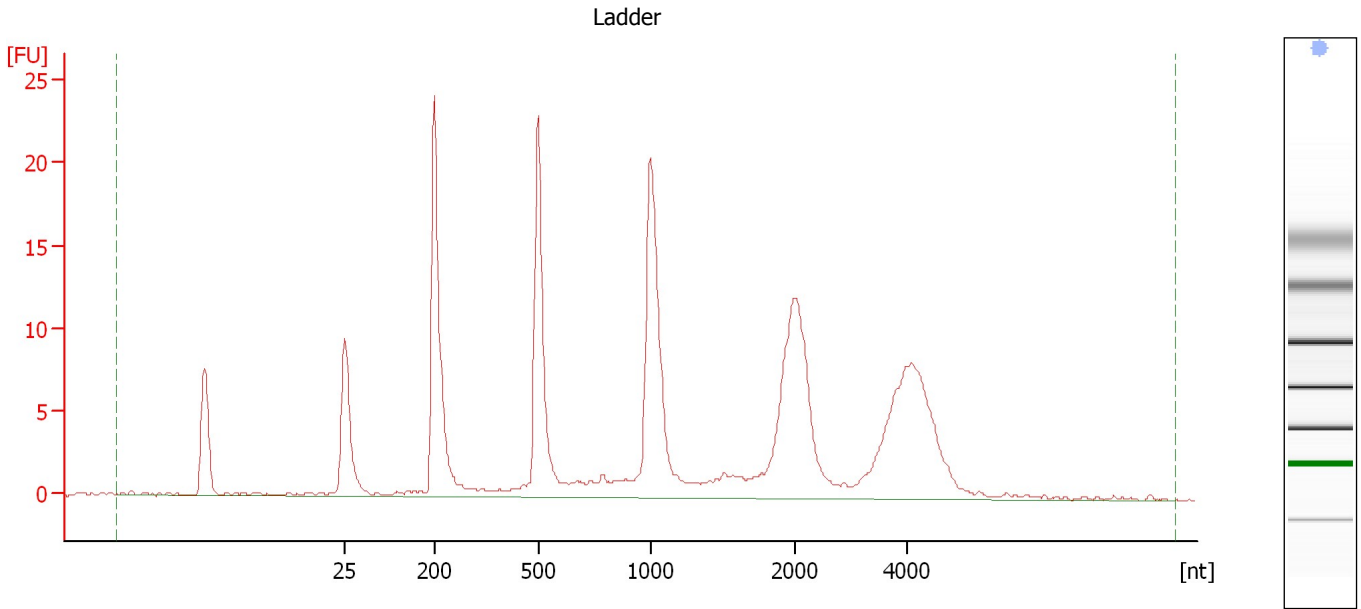
Ladder

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

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Electropherogram Summary



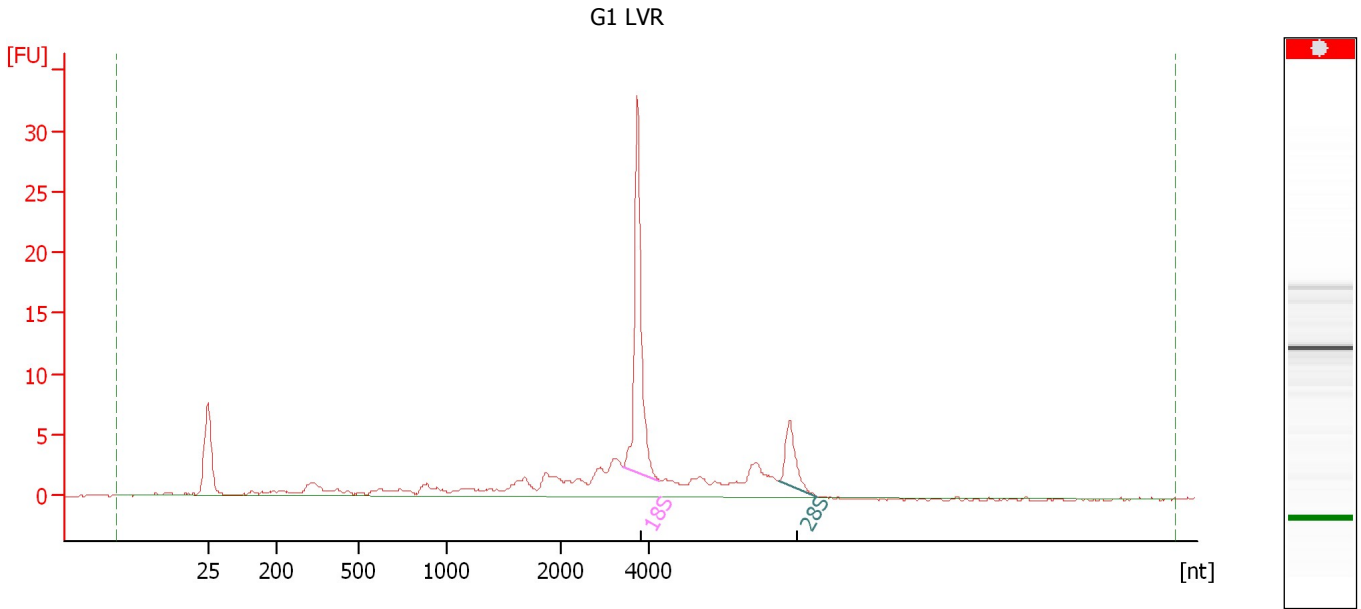
Overall Results for Ladder

RNA Area:	202.7	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

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Electropherogram Summary Continued ...



Overall Results for sample 1 : G1 LVR

RNA Area:	96.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	72 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN N/A

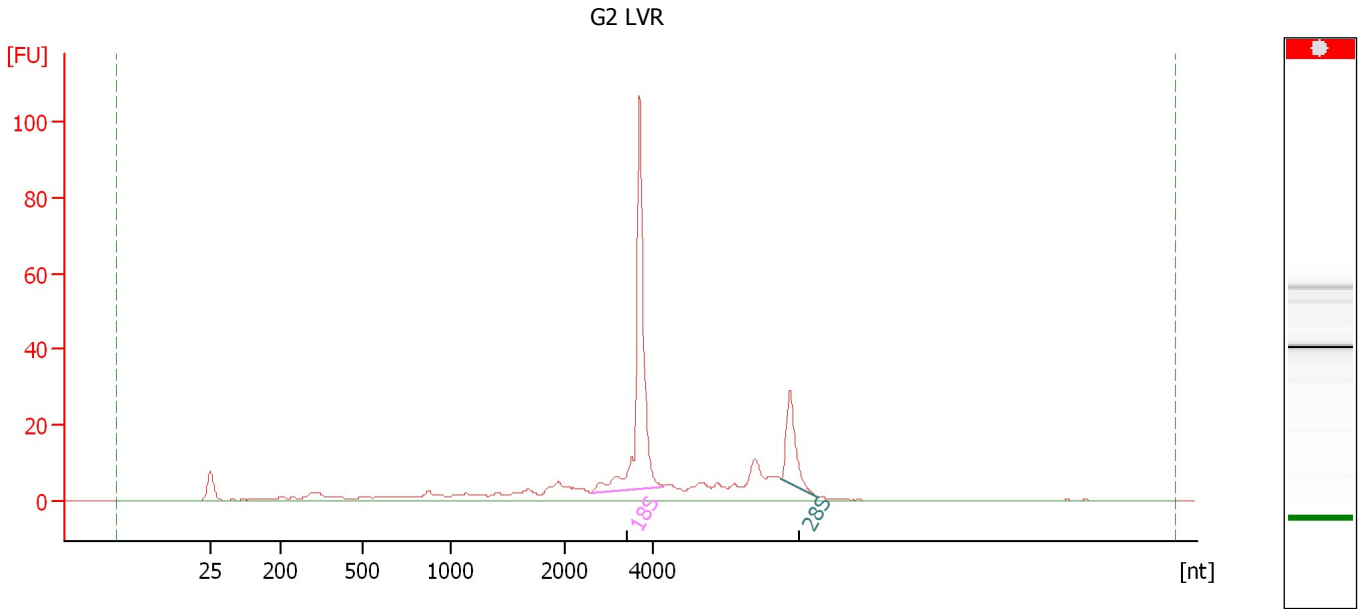
Fragment table for sample 1 : G1 LVR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,416	4,247	25.9	26.8
28S	6,986	7,842	5.5	5.7

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Electropherogram Summary Continued ...



Overall Results for sample 2 : G2 LVR

RNA Area:	282.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	209 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN N/A

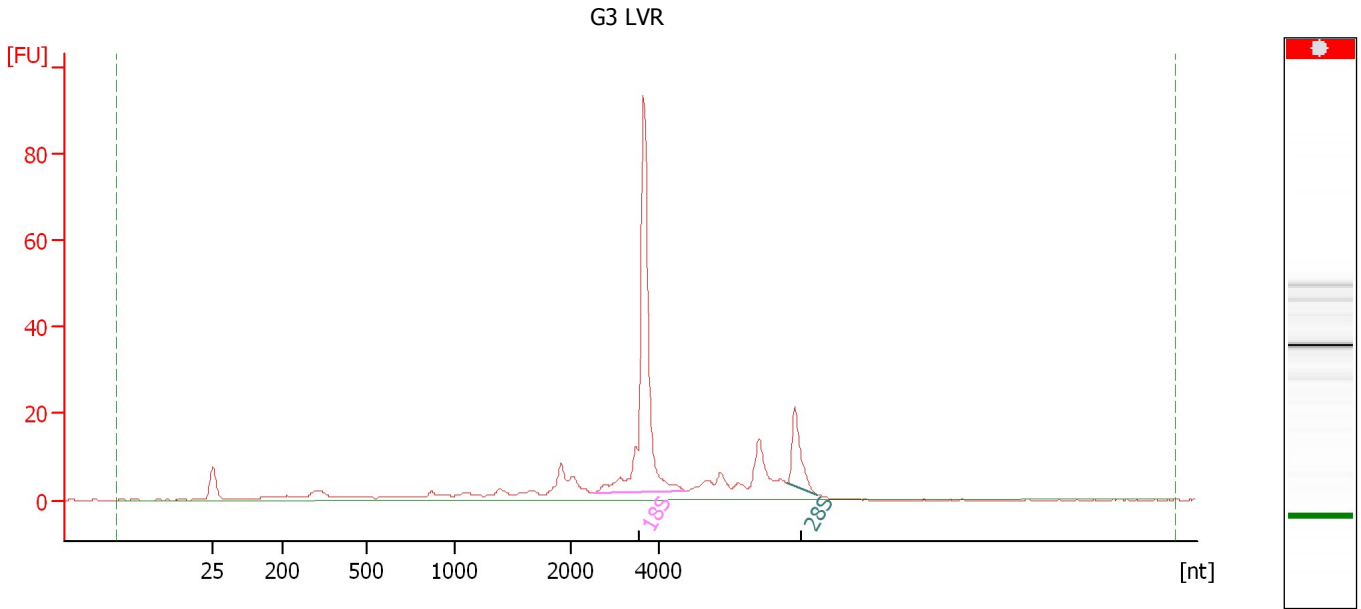
Fragment table for sample 2 : G2 LVR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,572	4,228	94.4	33.4
28S	6,931	7,735	22.6	8.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 3 : G3 LVR

RNA Area:	244.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	181 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN N/A

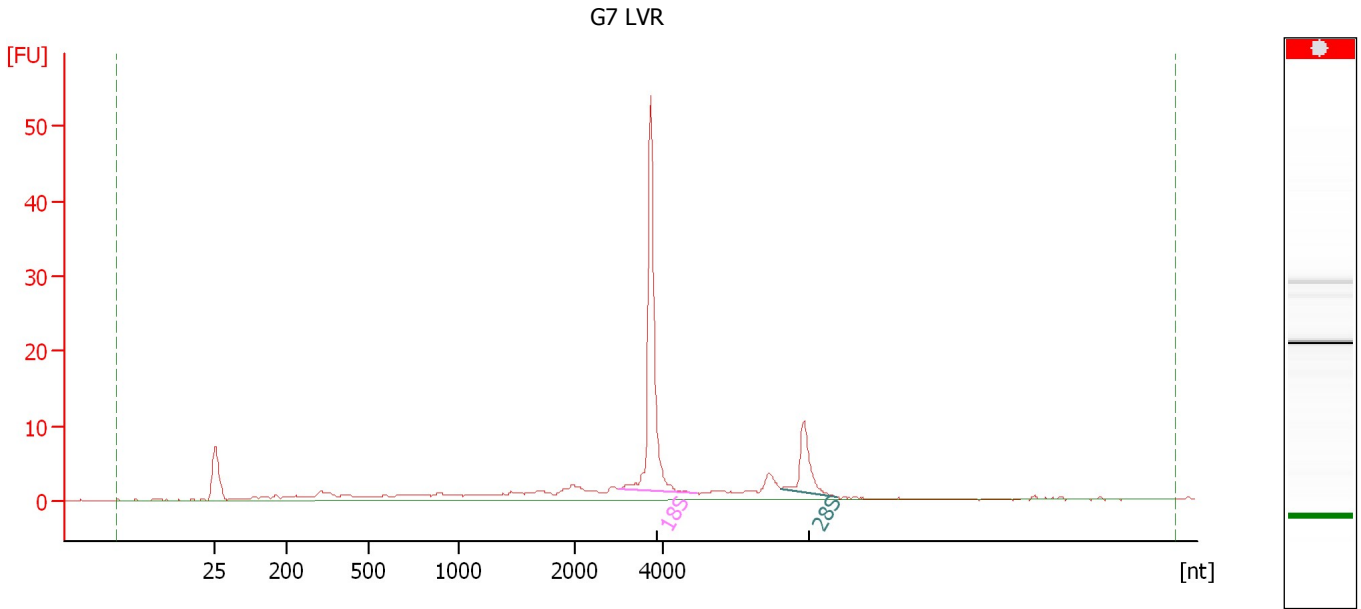
Fragment table for sample 3 : G3 LVR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,542	4,599	92.8	37.9
28S	6,898	7,600	16.4	6.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad

Created: 4/7/2017 1:26:47 PM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : G7 LVR

RNA Area:	119.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	88 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN N/A

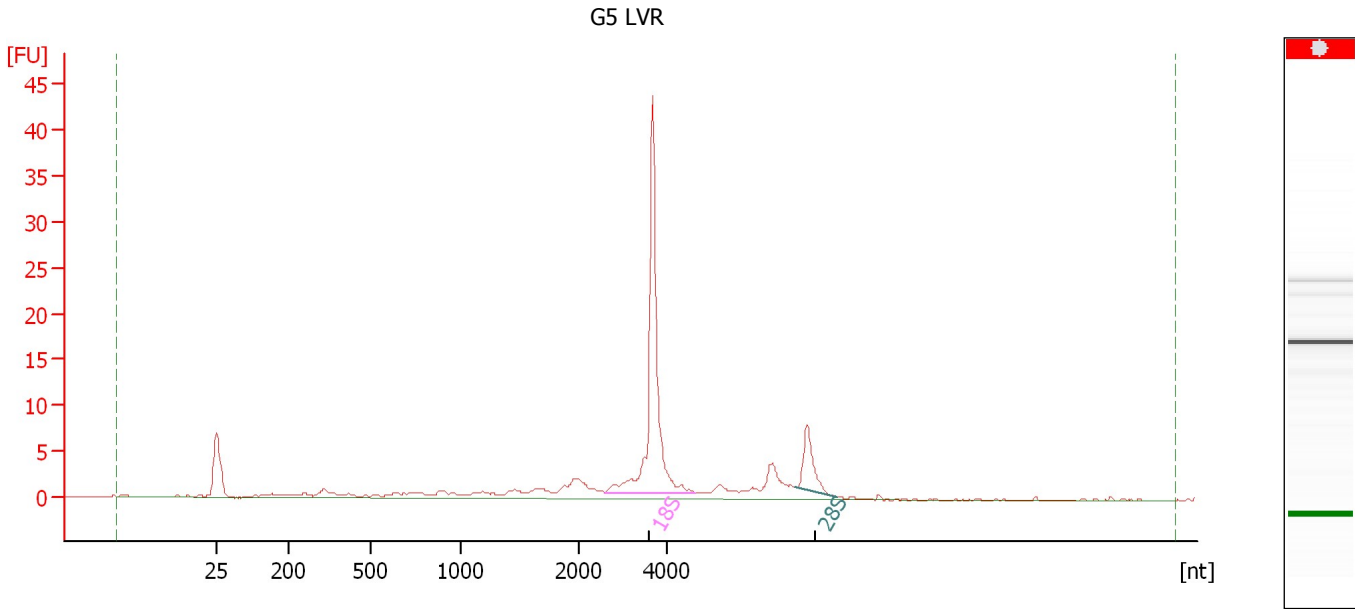
Fragment table for sample 4 : G7 LVR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,988	4,748	43.9	36.8
28S	6,675	7,929	9.5	8.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : G5 LVR

RNA Area:	97.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	72 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN N/A

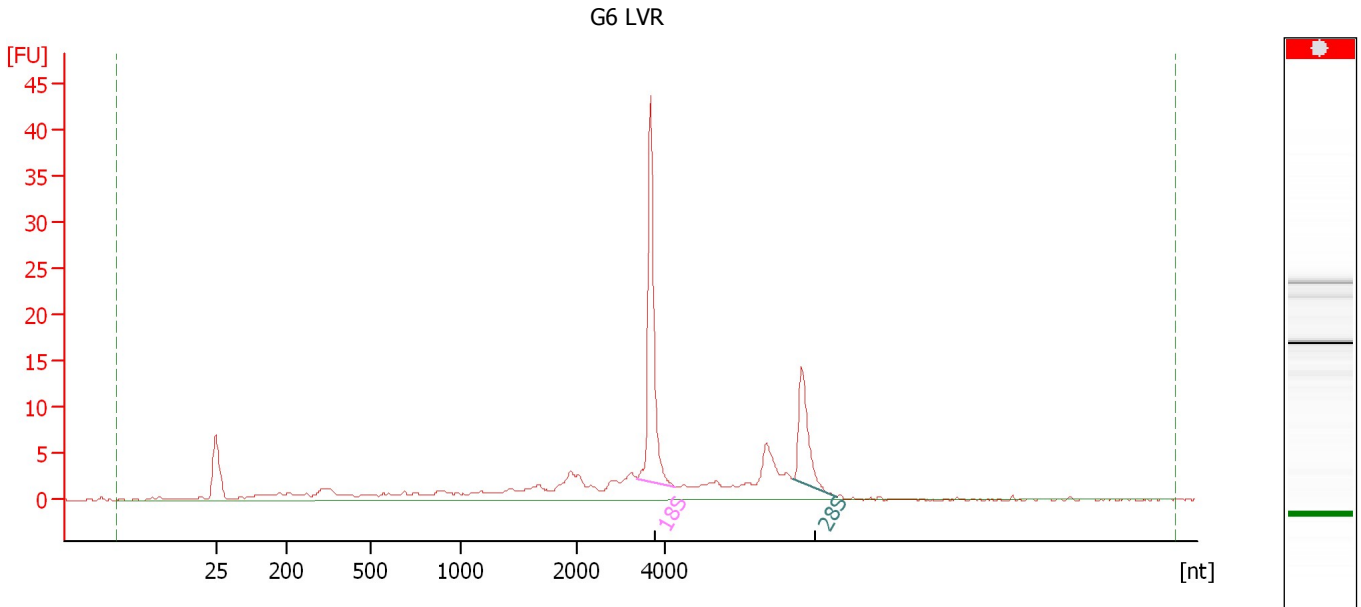
Fragment table for sample 5 : G5 LVR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,615	4,631	42.5	43.6
28S	6,887	7,823	7.2	7.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : G6 LVR

RNA Area:	134.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	99 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN N/A

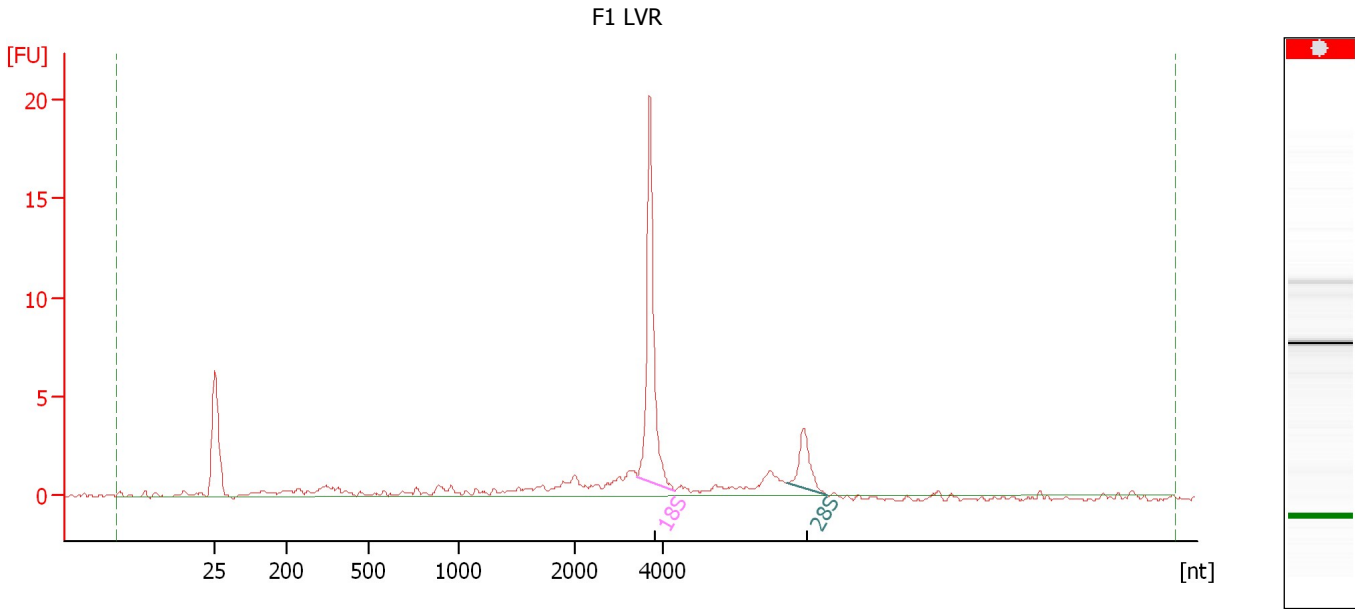
Fragment table for sample 6 : G6 LVR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,378	4,244	31.4	23.4
28S	6,889	7,851	11.8	8.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : F1 LVR

RNA Area:	46.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	34 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN N/A

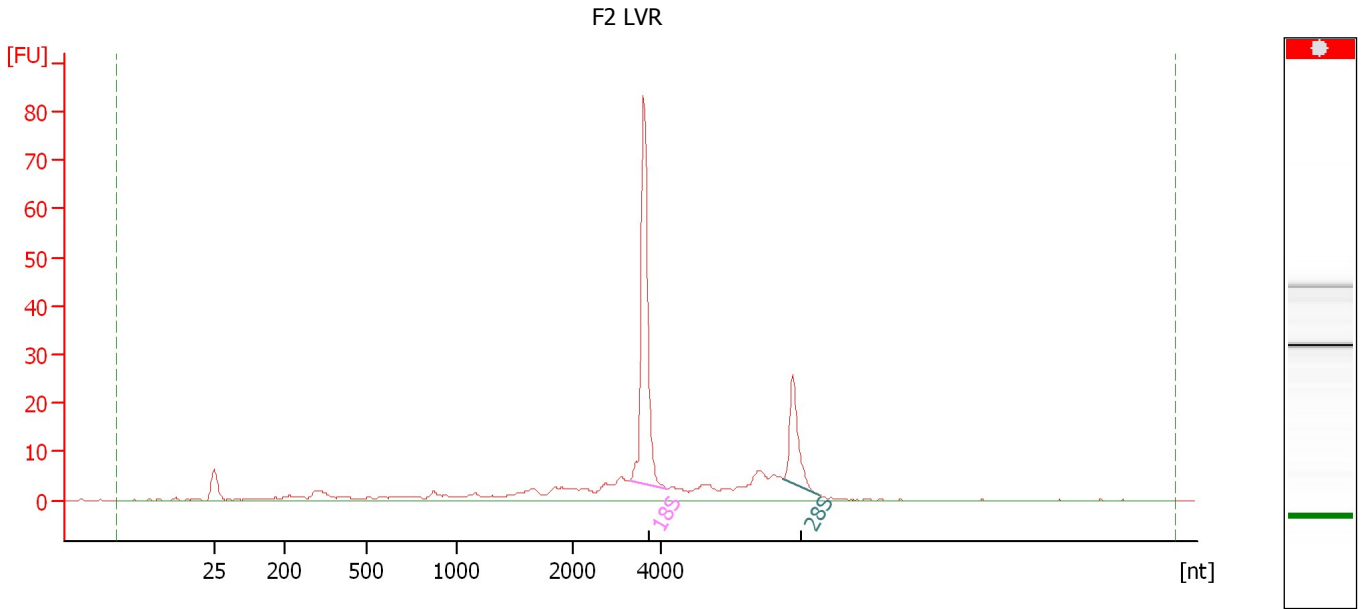
Fragment table for sample 7 : F1 LVR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,422	4,266	16.4	35.5
28S	6,796	7,688	3.3	7.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : F2 LVR

RNA Area:	213.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	158 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN N/A

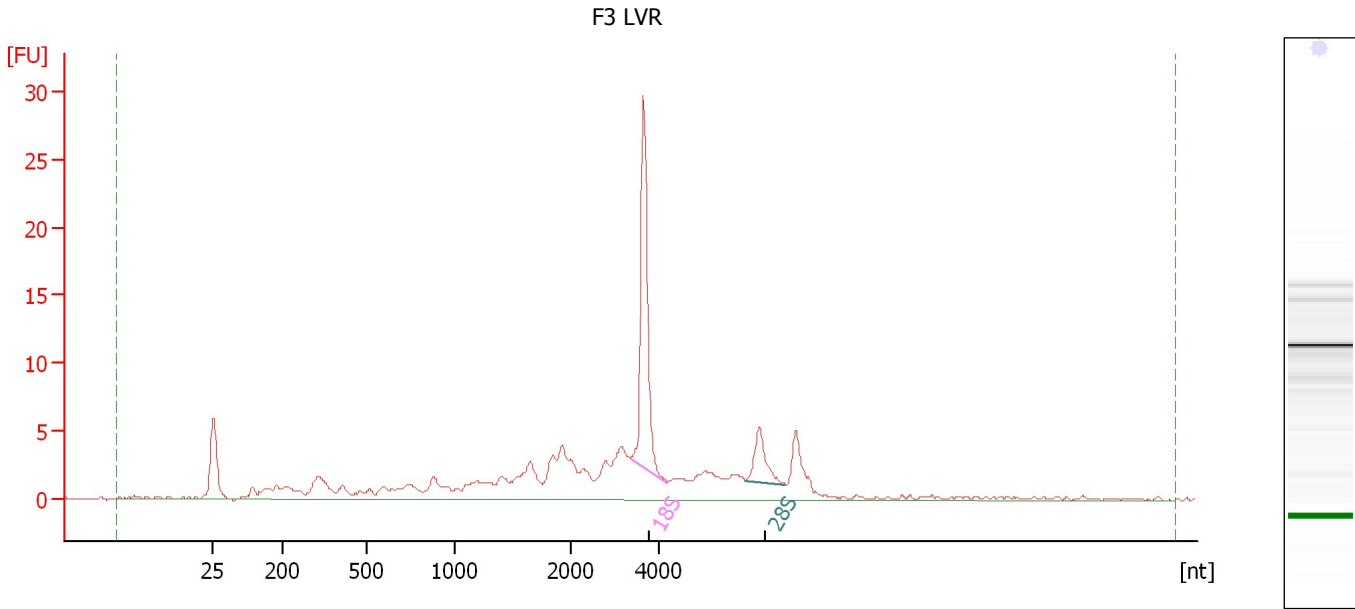
Fragment table for sample 8 : F2 LVR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,297	4,142	62.0	29.1
28S	6,774	7,571	20.4	9.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad

Created: 4/7/2017 1:26:47 PM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : F3 LVR

RNA Area:	137.2	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	101 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 6.20

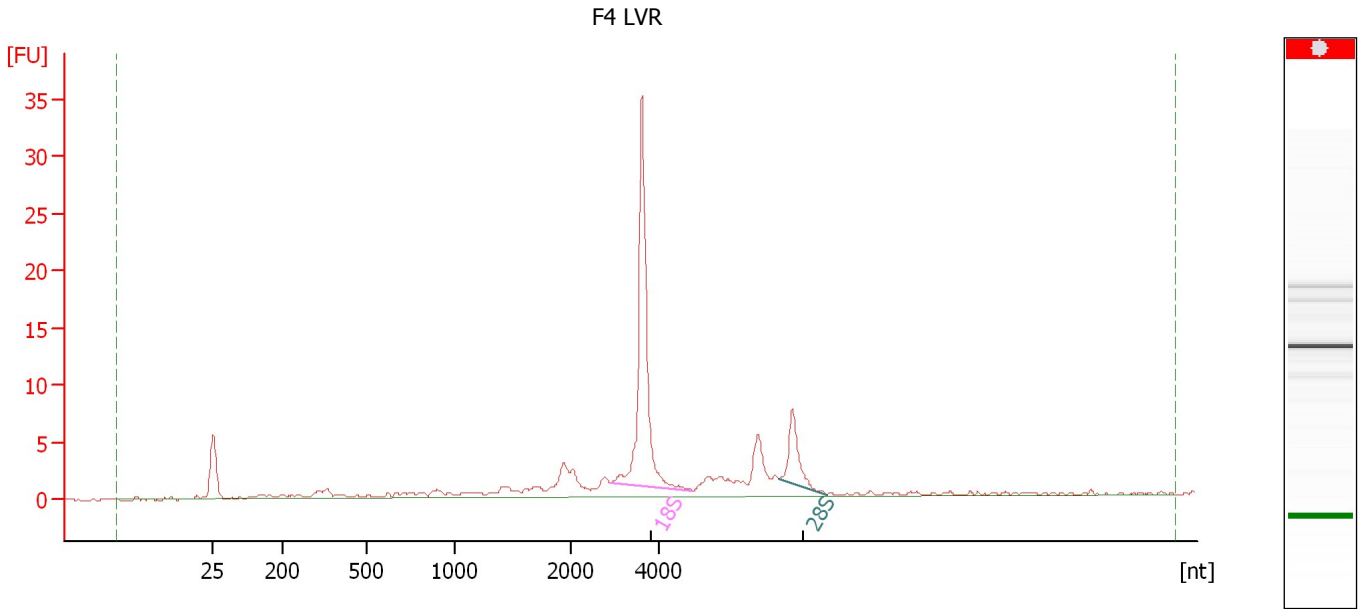
Fragment table for sample 9 : F3 LVR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,341	4,188	21.5	15.7
28S	5,954	6,874	4.7	3.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad

Created: 4/7/2017 1:26:47 PM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : F4 LVR

RNA Area:	92.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	69 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN N/A

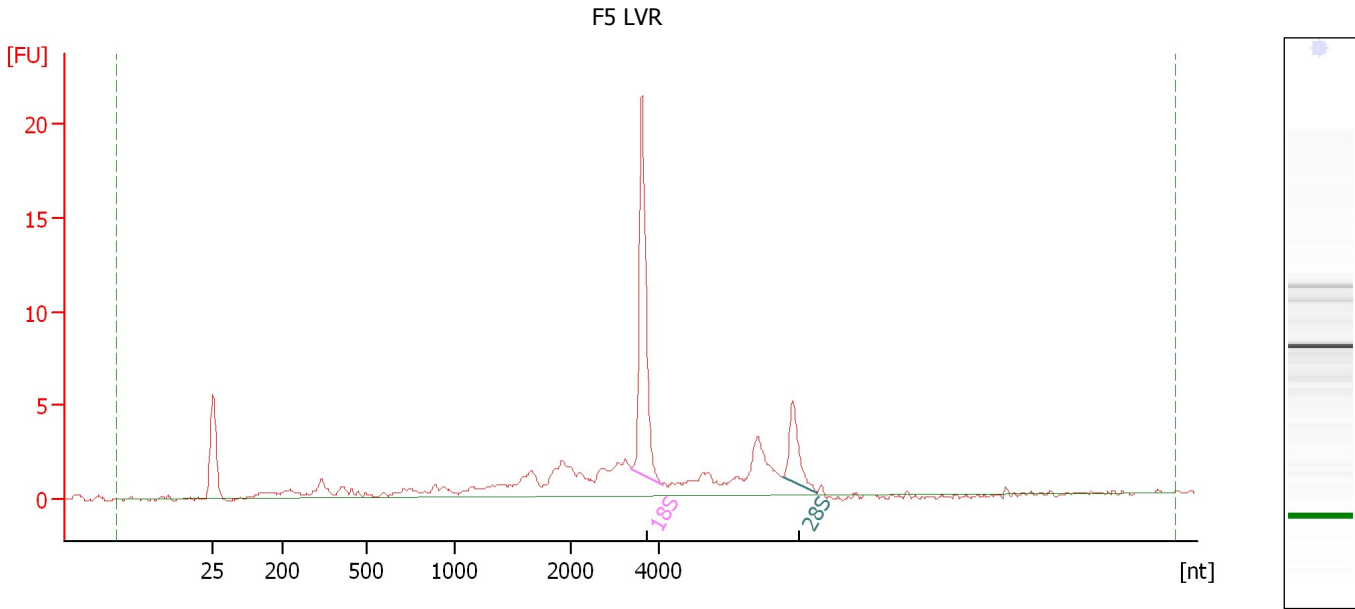
Fragment table for sample 10 : F4 LVR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,905	4,769	32.7	35.3
28S	6,729	7,818	6.6	7.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad

Created: 4/7/2017 1:26:47 PM
Modified: 4/7/2017 1:50:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : F5 LVR

RNA Area: 68.9 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 51 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 6.70

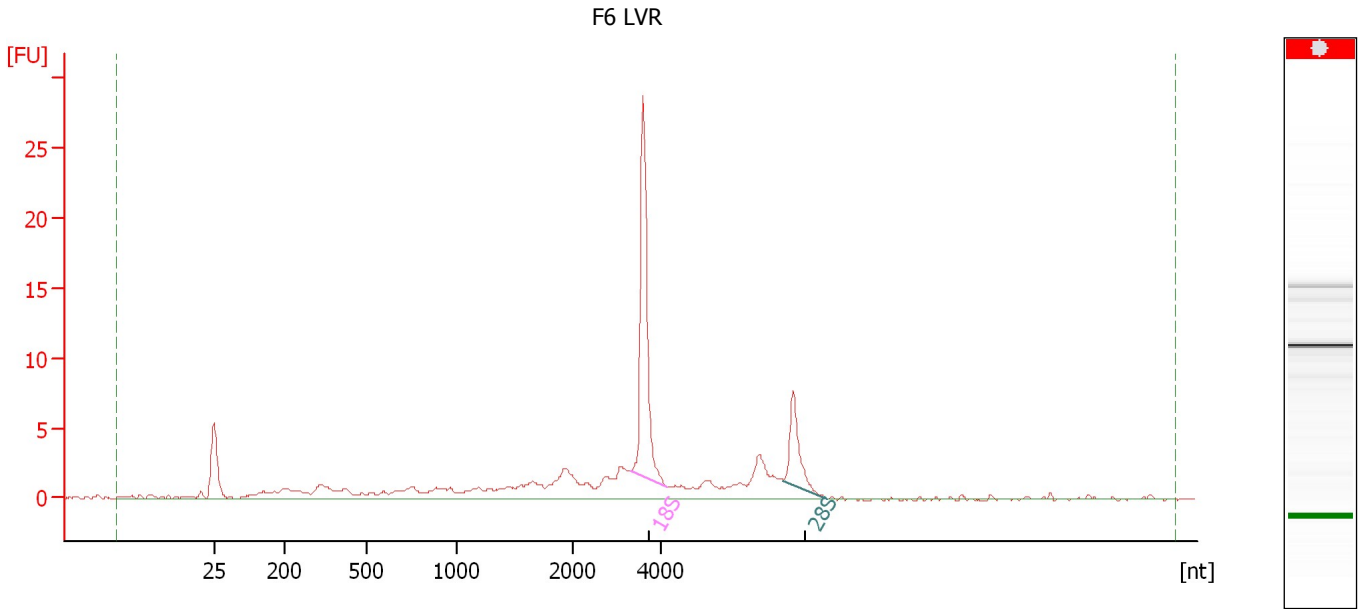
Fragment table for sample 11 : F5 LVR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,365	4,067	16.1	23.4
28S	6,825	7,600	4.4	6.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad

Created: 4/7/2017 1:26:47 PM
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Electropherogram Summary Continued ...



Overall Results for sample 12 : F6 LVR

RNA Area:	89.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	66 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN N/A

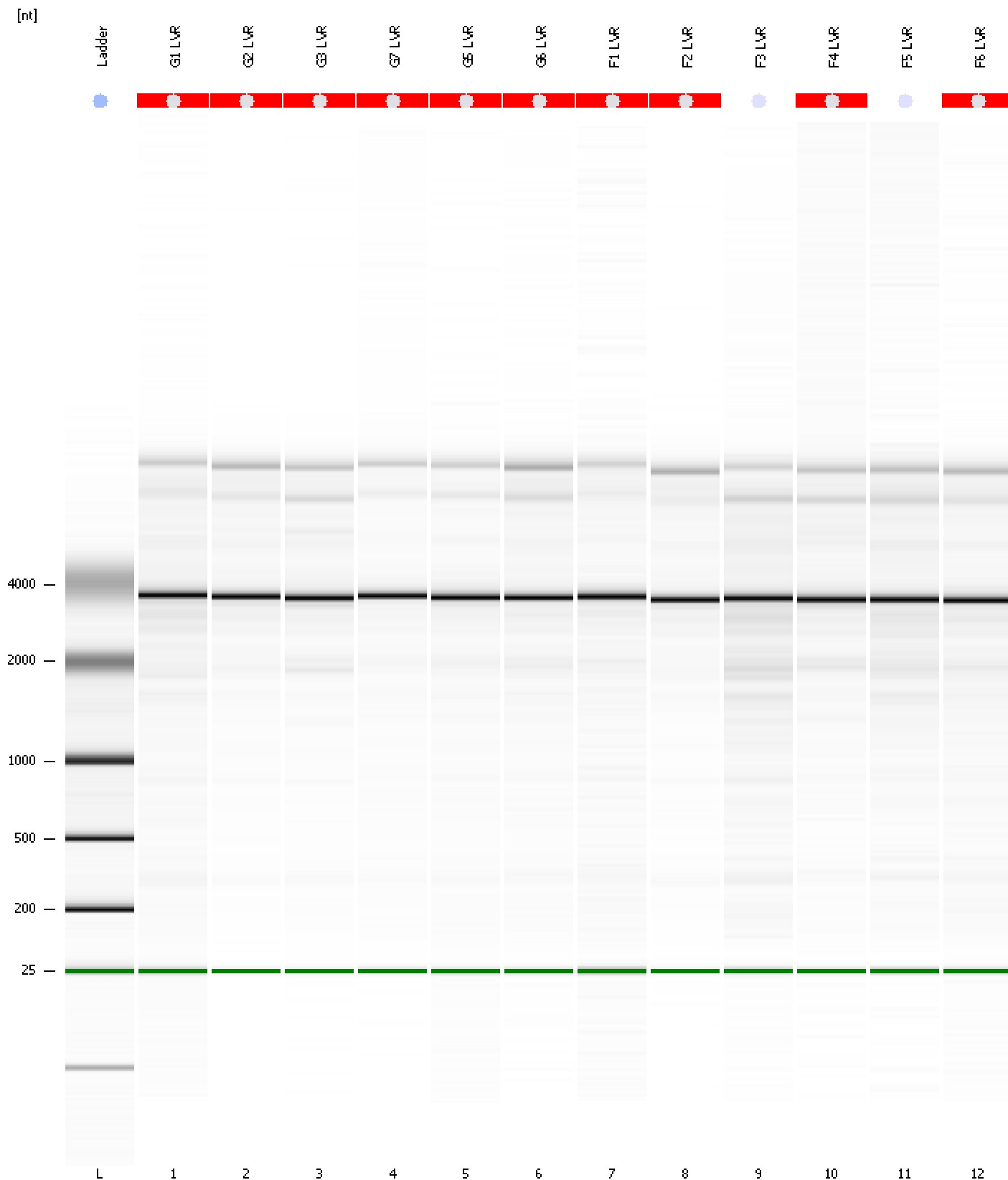
Fragment table for sample 12 : F6 LVR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,321	4,118	21.5	23.9
28S	6,774	7,765	6.4	7.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad

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Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 4/7/2017 1:26:47 PM
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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		4/7/2017 1:50:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-04-07\2017-04-07_002.xad)		Instrument	Run		4/7/2017 1:26:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/7/2017 1:26:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/7/2017 1:26:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/7/2017 1:26:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/7/2017 1:26:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/7/2017 1:26:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/7/2017 1:26:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1