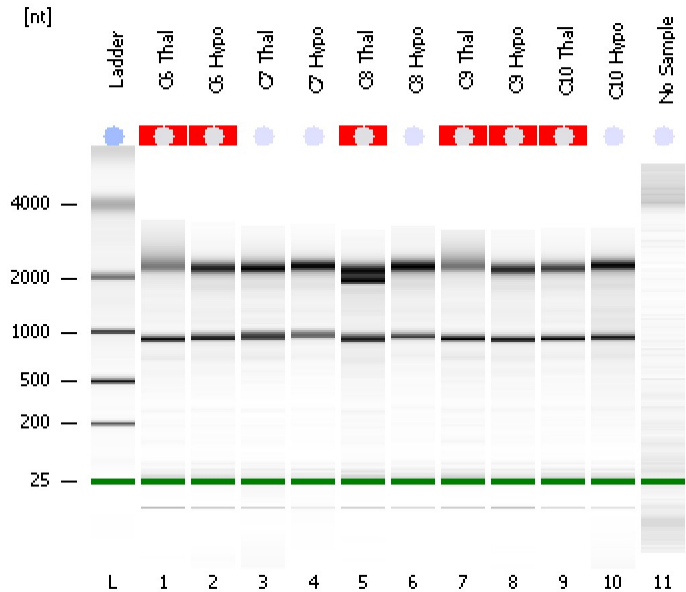


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
Modified: 8/30/2016 11:41:10 AM

Electrophoresis File Run Summary



Instrument Information:

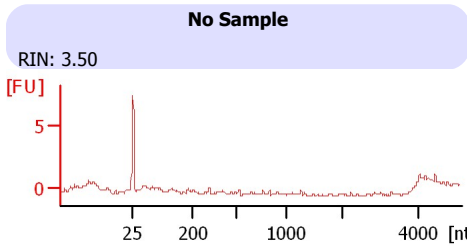
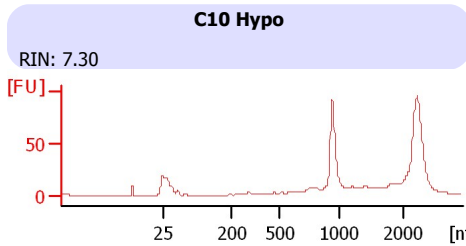
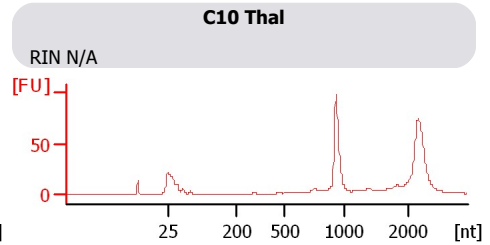
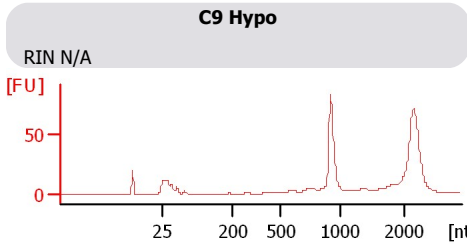
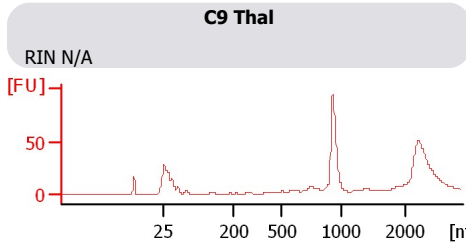
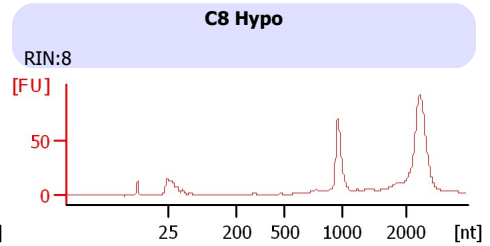
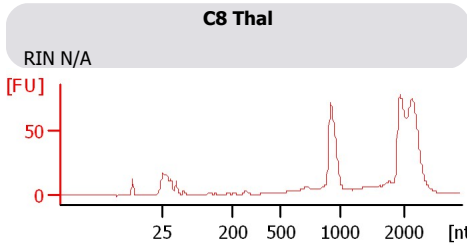
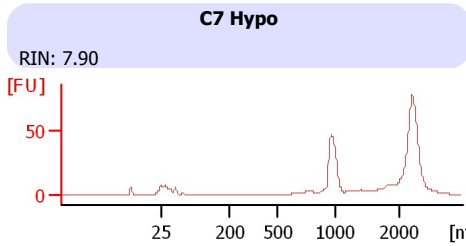
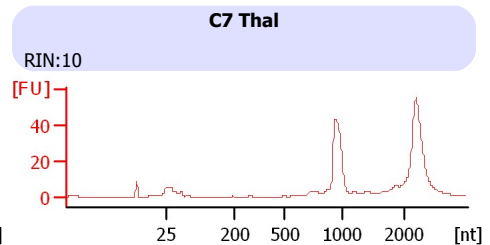
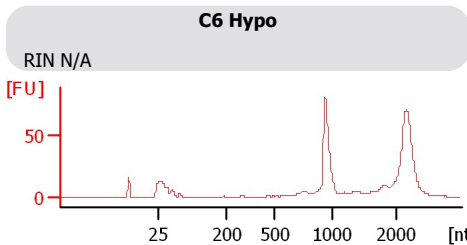
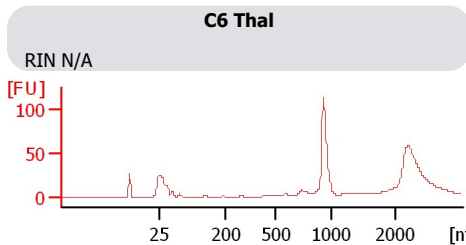
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
 Modified: 8/30/2016 11:41:10 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
C6 Thal		✓	RIN N/A	
C6 Hypo		✓	RIN N/A	
C7 Thal		✓	RIN:10	
C7 Hypo		✓	RIN: 7.90	
C8 Thal		✓	RIN N/A	
C8 Hypo		✓	RIN:8	
C9 Thal		✓	RIN N/A	
C9 Hypo		✓	RIN N/A	
C10 Thal		✓	RIN N/A	
C10 Hypo		✓	RIN: 7.30	
No Sample		✓	RIN: 3.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
Modified: 8/30/2016 11:41:10 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ 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] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

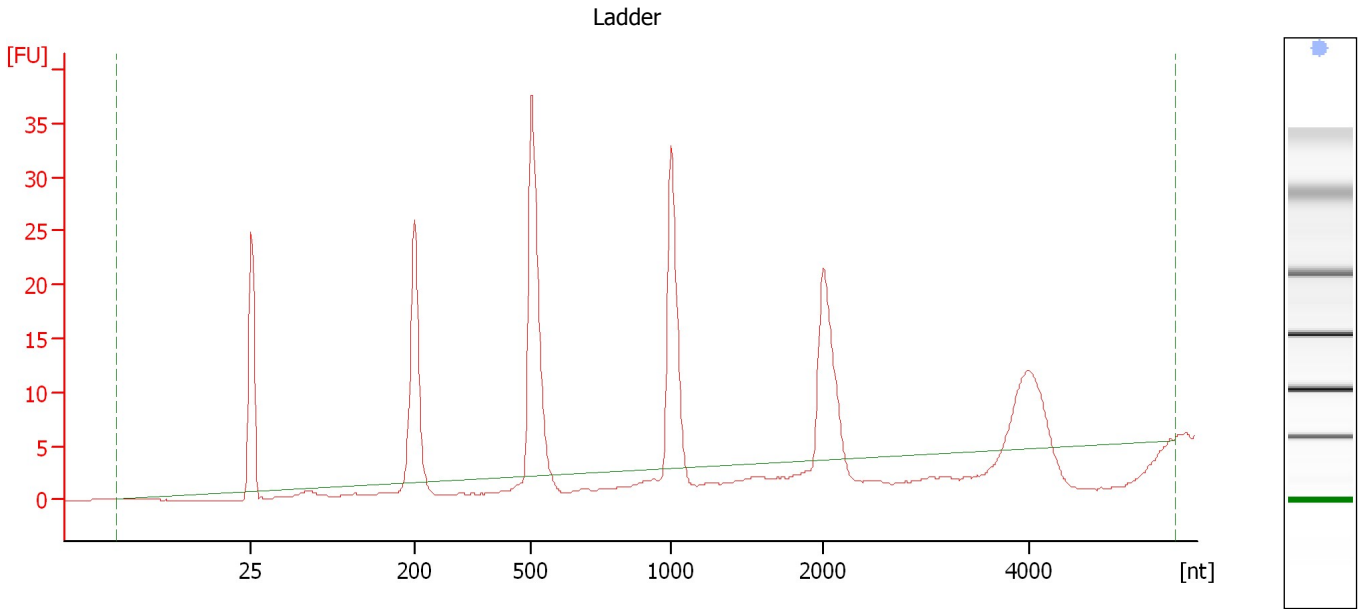
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
Modified: 8/30/2016 11:41:10 AM

Electropherogram Summary



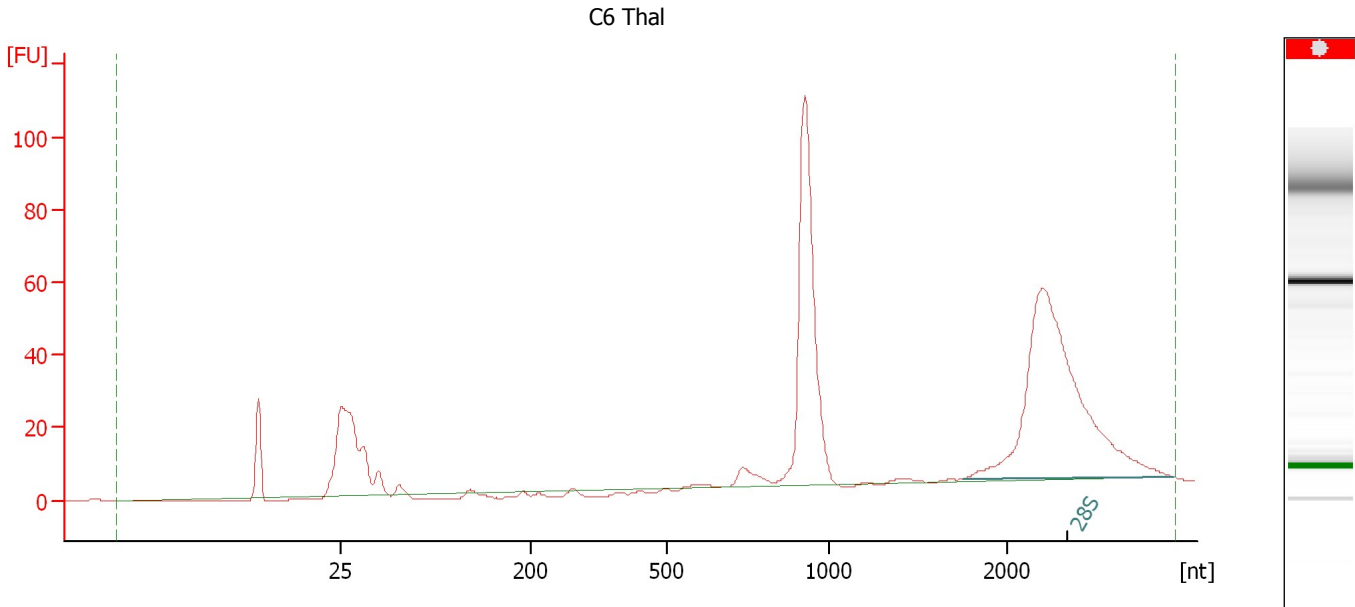
Overall Results for Ladder

RNA Area:	150.8	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
 Modified: 8/30/2016 11:41:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : C6 Thal

RNA Area:	466.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3,096 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

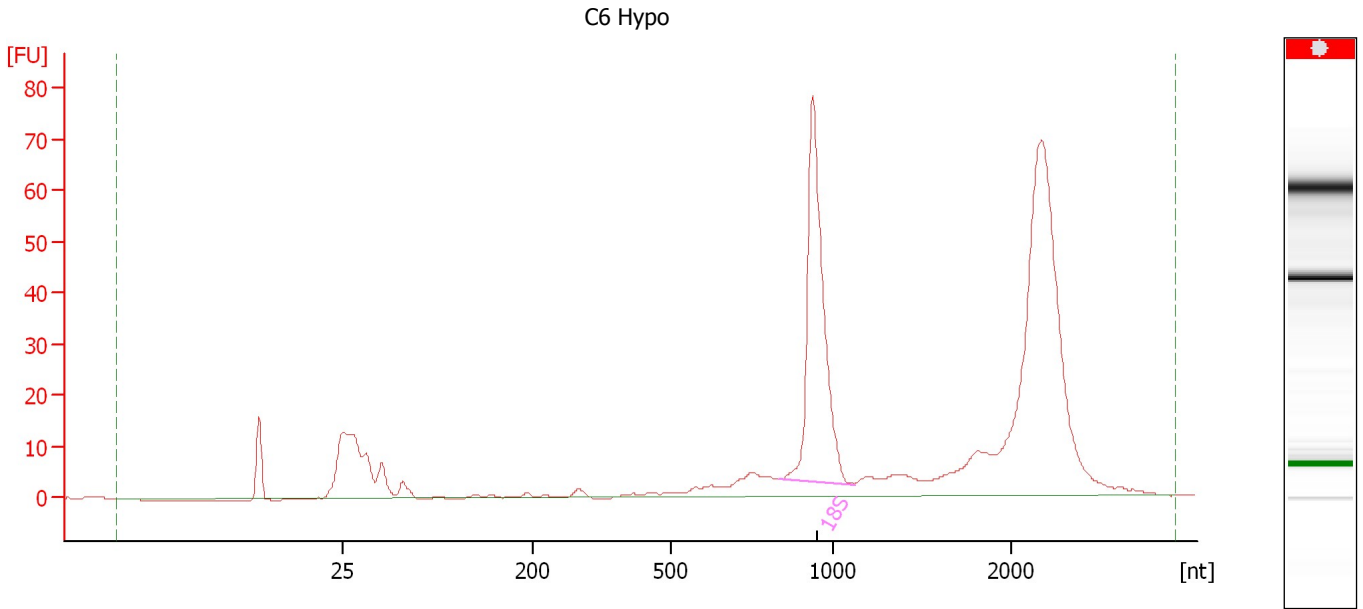
Fragment table for sample 1 : C6 Thal

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,757	3,396	232.7	49.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
Modified: 8/30/2016 11:41:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : C6 Hypo

RNA Area:	492.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3,263 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

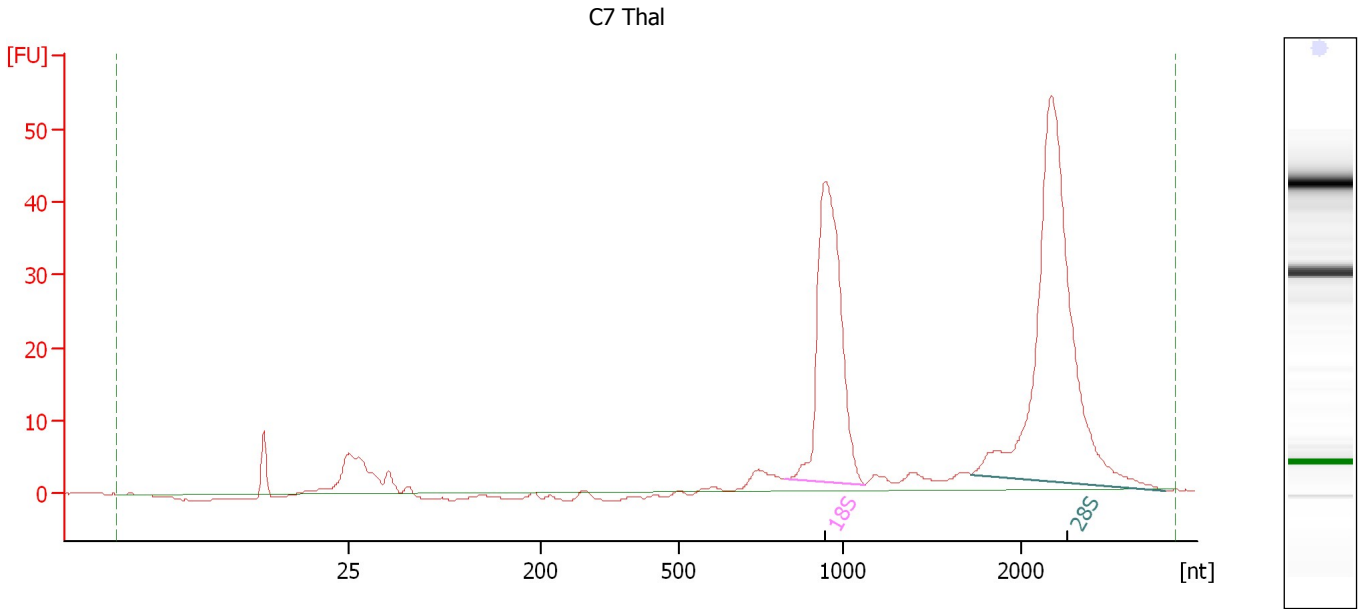
Fragment table for sample 2 : C6 Hypo

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	834	1,117	122.1	24.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
Modified: 8/30/2016 11:41:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : C7 Thal

RNA Area:	311.6	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	2,066 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN:10

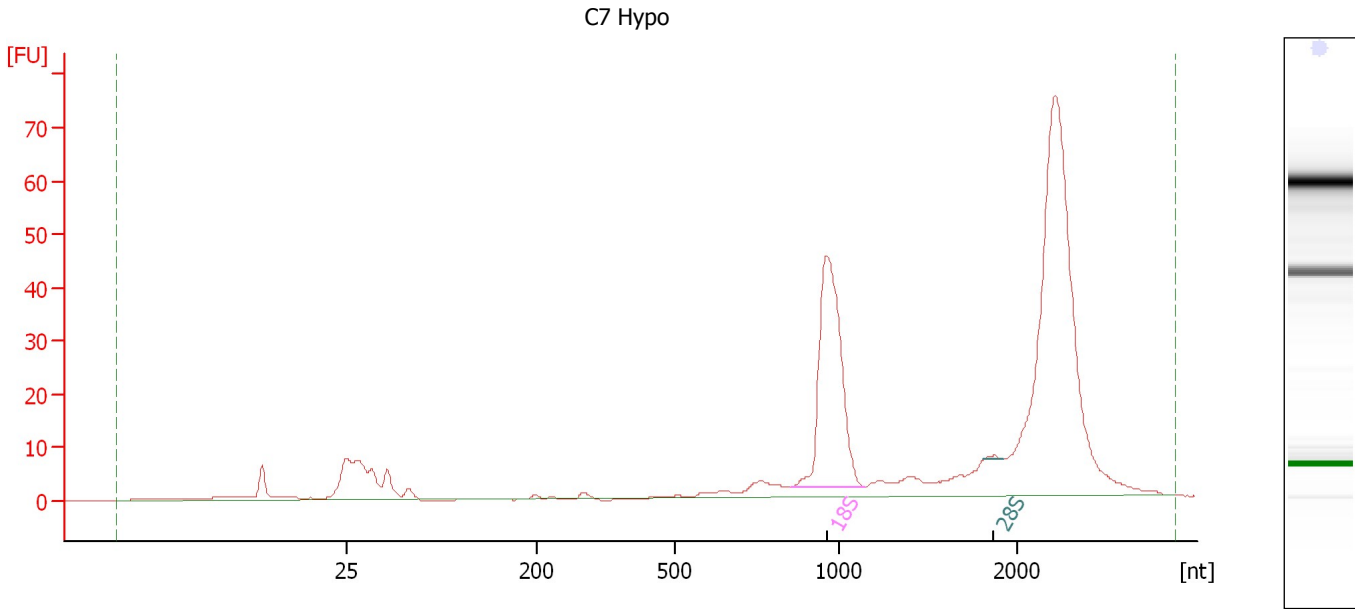
Fragment table for sample 3 : C7 Thal

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	827	1,123	98.9	31.8
28S	1,722	3,192	151.8	48.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
Modified: 8/30/2016 11:41:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : C7 Hypo

RNA Area:	438.5	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	2,907 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.90

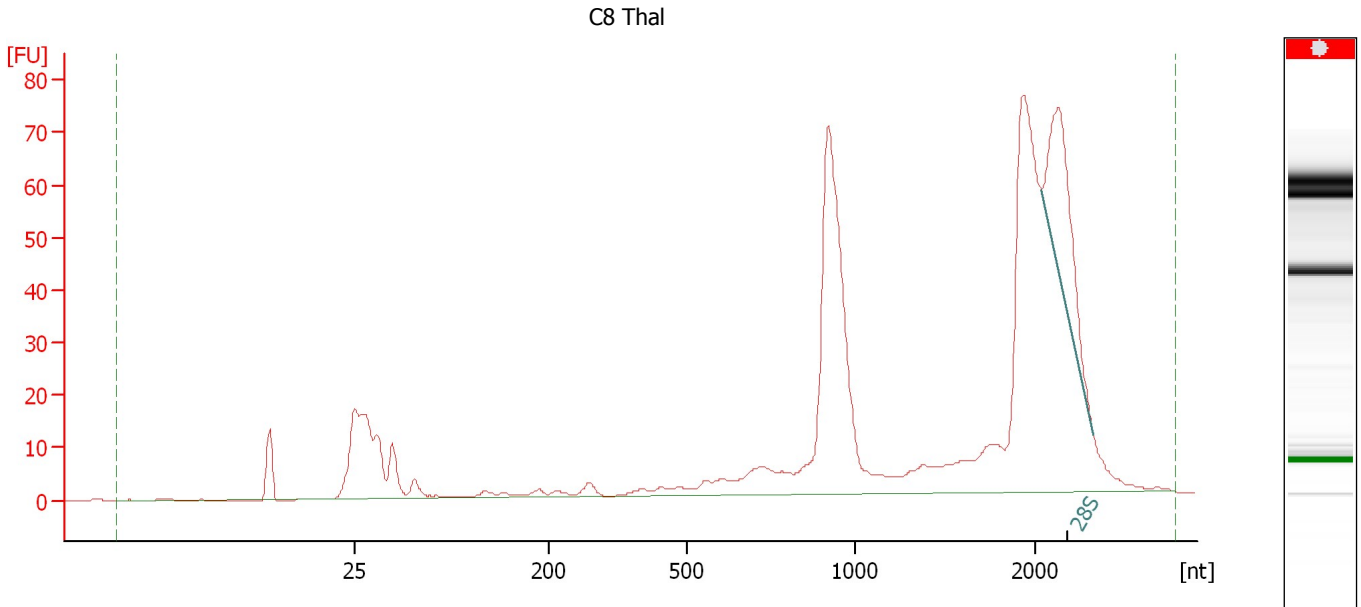
Fragment table for sample 4 : C7 Hypo

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	850	1,145	96.9	22.1
28S	1,812	1,920	0.5	0.1

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
 Modified: 8/30/2016 11:41:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : C8 Thal

RNA Area:	652.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	4,328 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

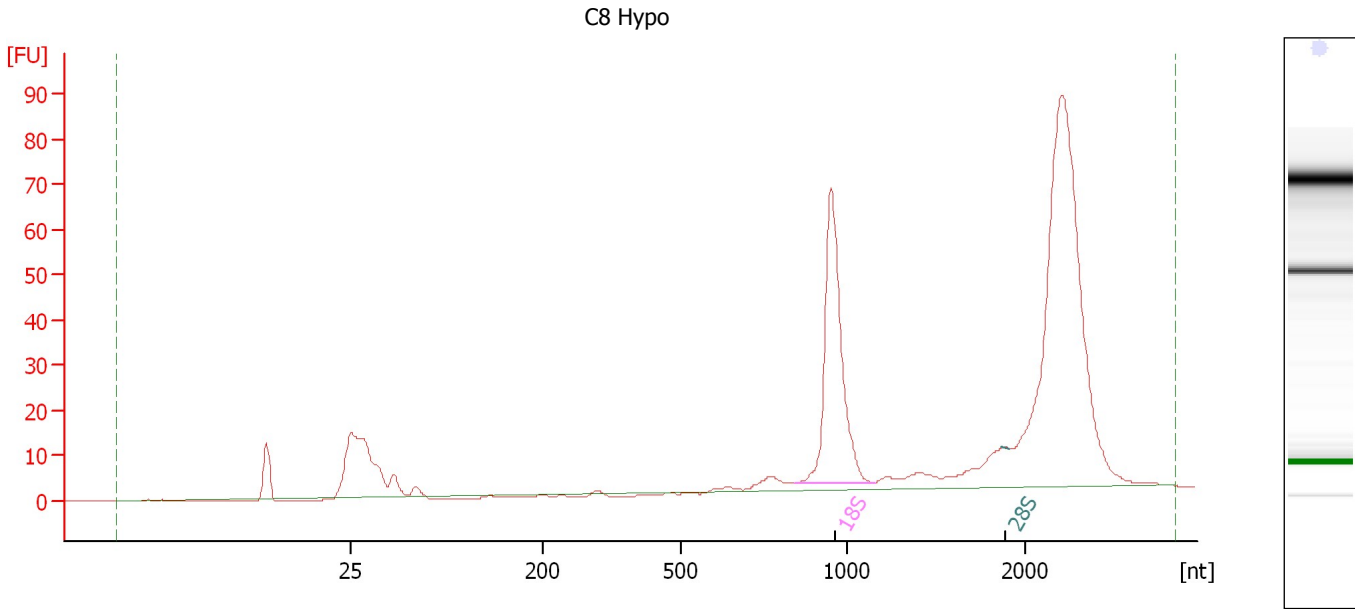
Fragment table for sample 5 : C8 Thal

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,056	2,486	56.6	8.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
Modified: 8/30/2016 11:41:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : C8 Hypo

RNA Area: 462.9 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 3,069 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN:8

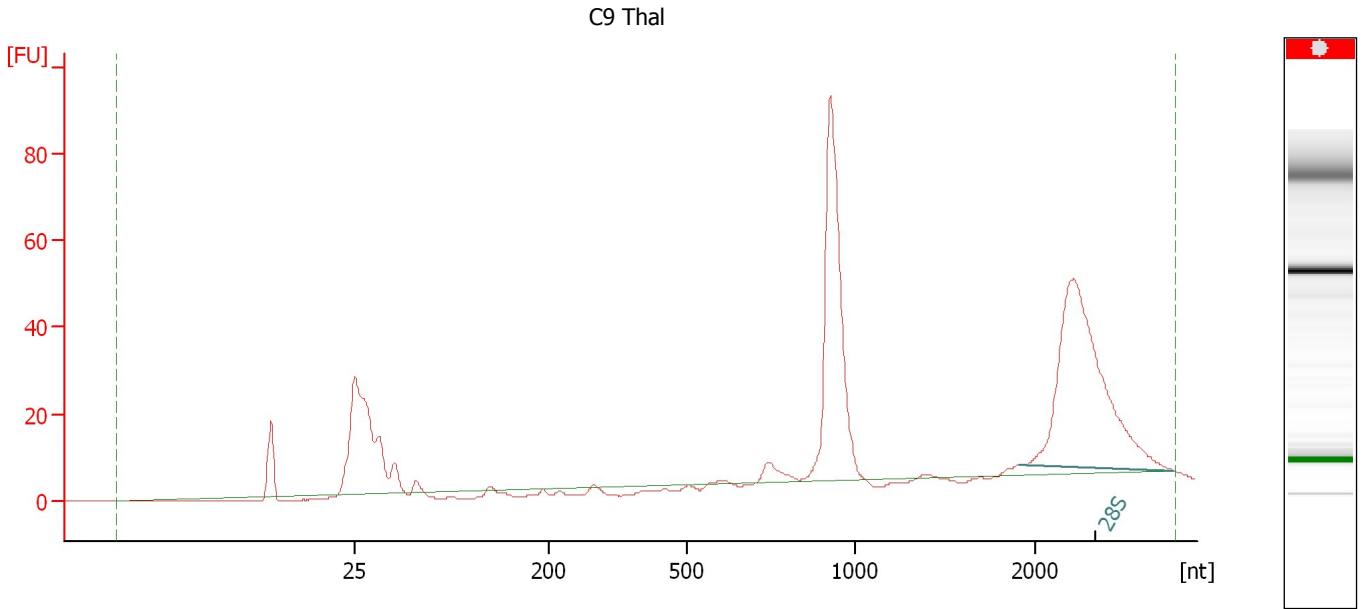
Fragment table for sample 6 : C8 Hypo

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	842	1,156	108.3	23.4
28S	1,866	1,907	0.1	0.0


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
Modified: 8/30/2016 11:41:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : C9 Thal

RNA Area:	349.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,319 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

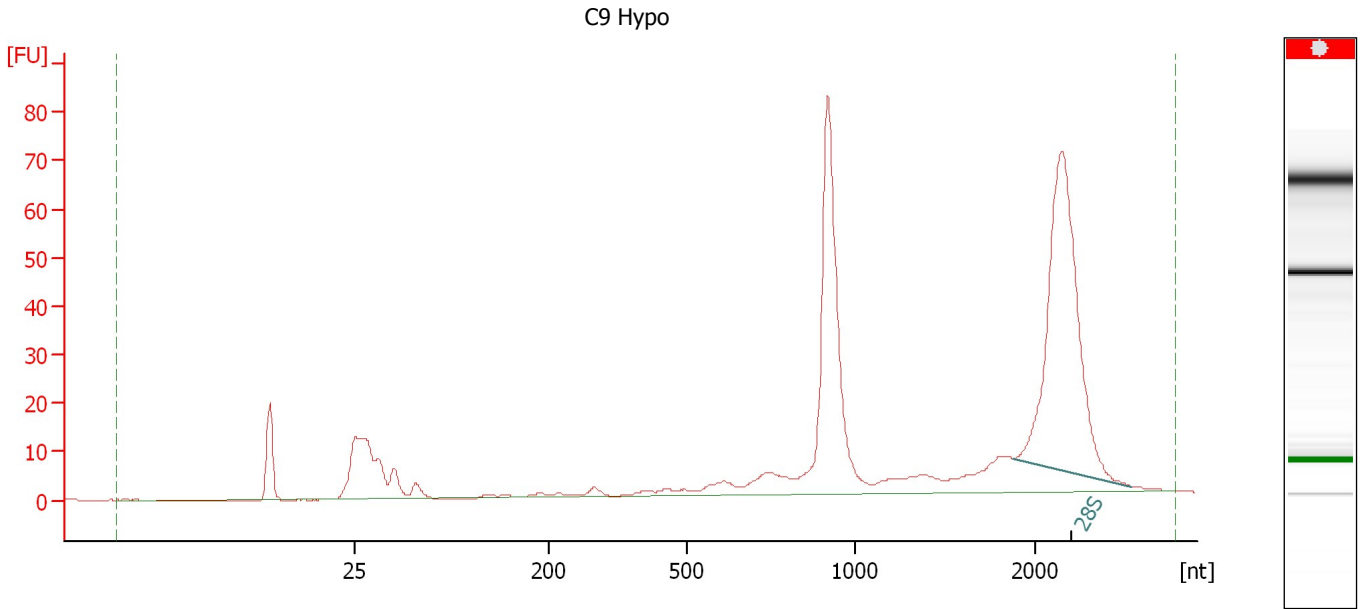
Fragment table for sample 7 : C9 Thal

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,919	3,134	158.0	45.2

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
 Modified: 8/30/2016 11:41:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : C9 Hypo

RNA Area:	448.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,973 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

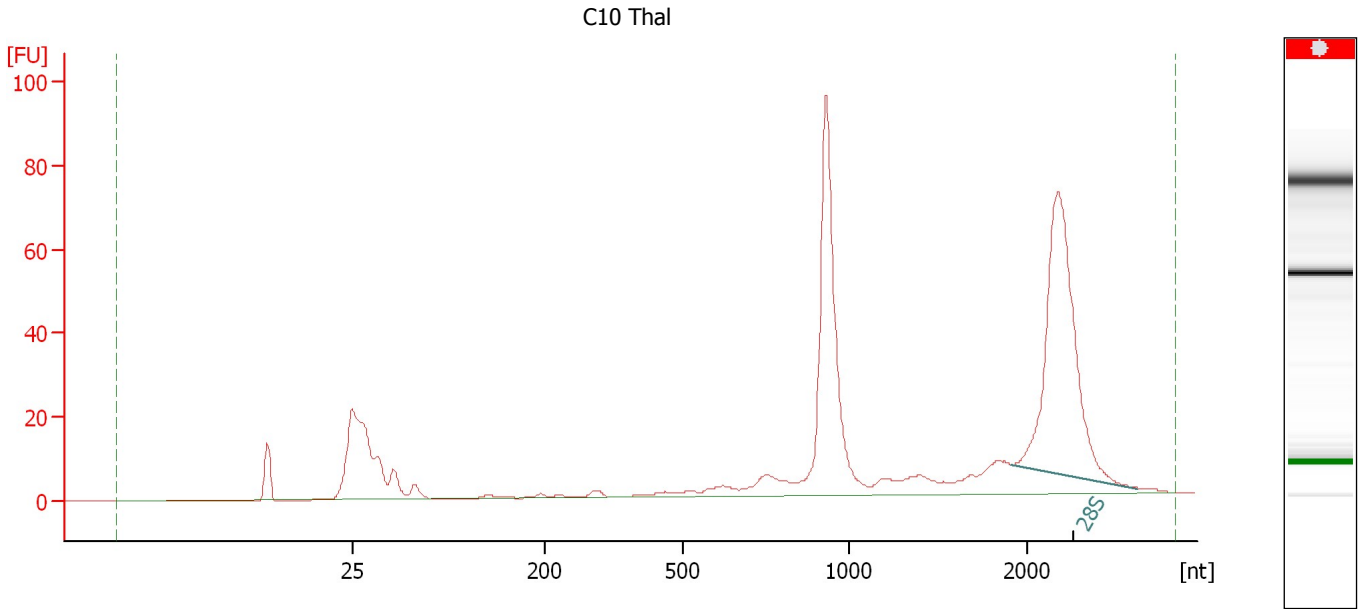
Fragment table for sample 8 : C9 Hypo

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,878	2,792	164.3	36.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
Modified: 8/30/2016 11:41:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : C10 Thal

RNA Area:	457.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3,032 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

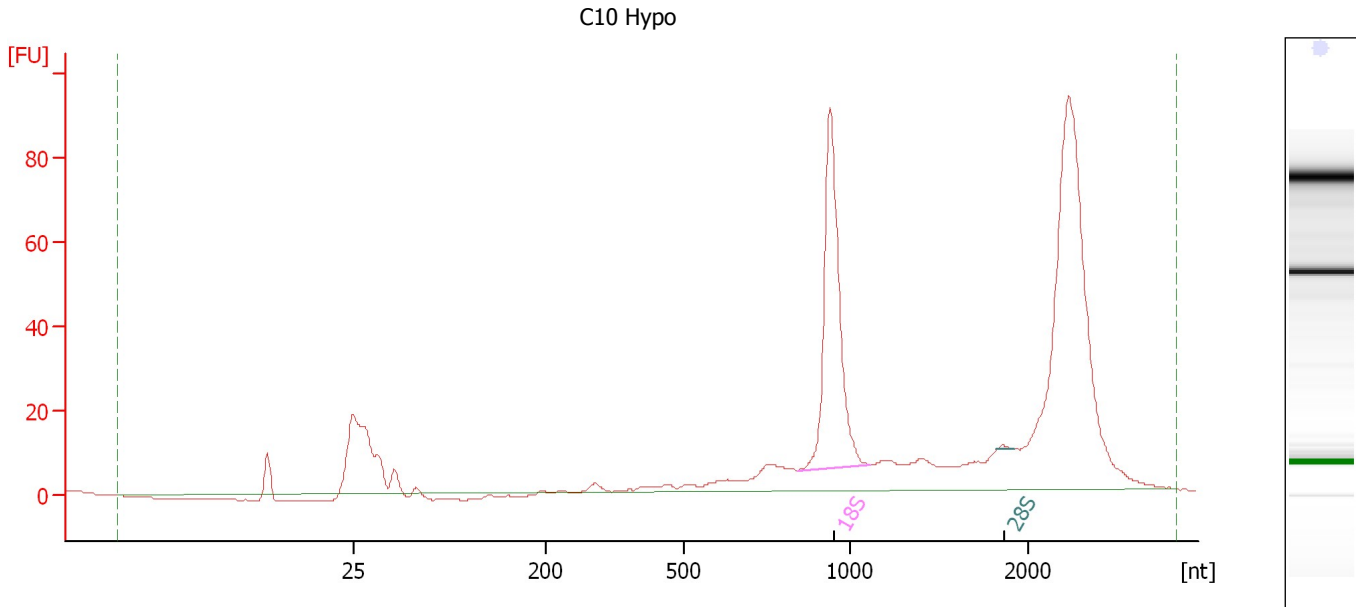
Fragment table for sample 9 : C10 Thal

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,907	2,903	160.5	35.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
Modified: 8/30/2016 11:41:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : C10 Hypo

RNA Area: 578.6 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 3,837 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 7.30

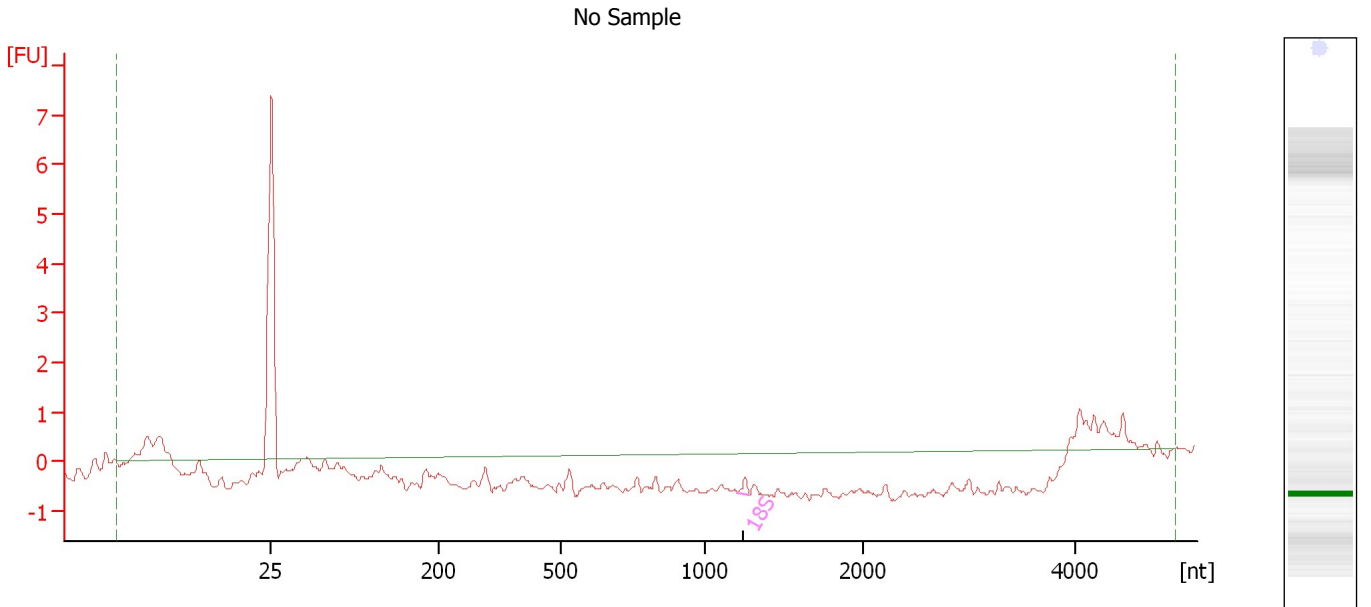
Fragment table for sample 10 : C10 Hypo

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	843	1,115	129.7	22.4
28S	1,818	1,919	0.7	0.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
Modified: 8/30/2016 11:41:10 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : No Sample

RNA Area:	4.7	RNA Integrity Number (RIN):	3.5 (B.02.08)
RNA Concentration:	31 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.50

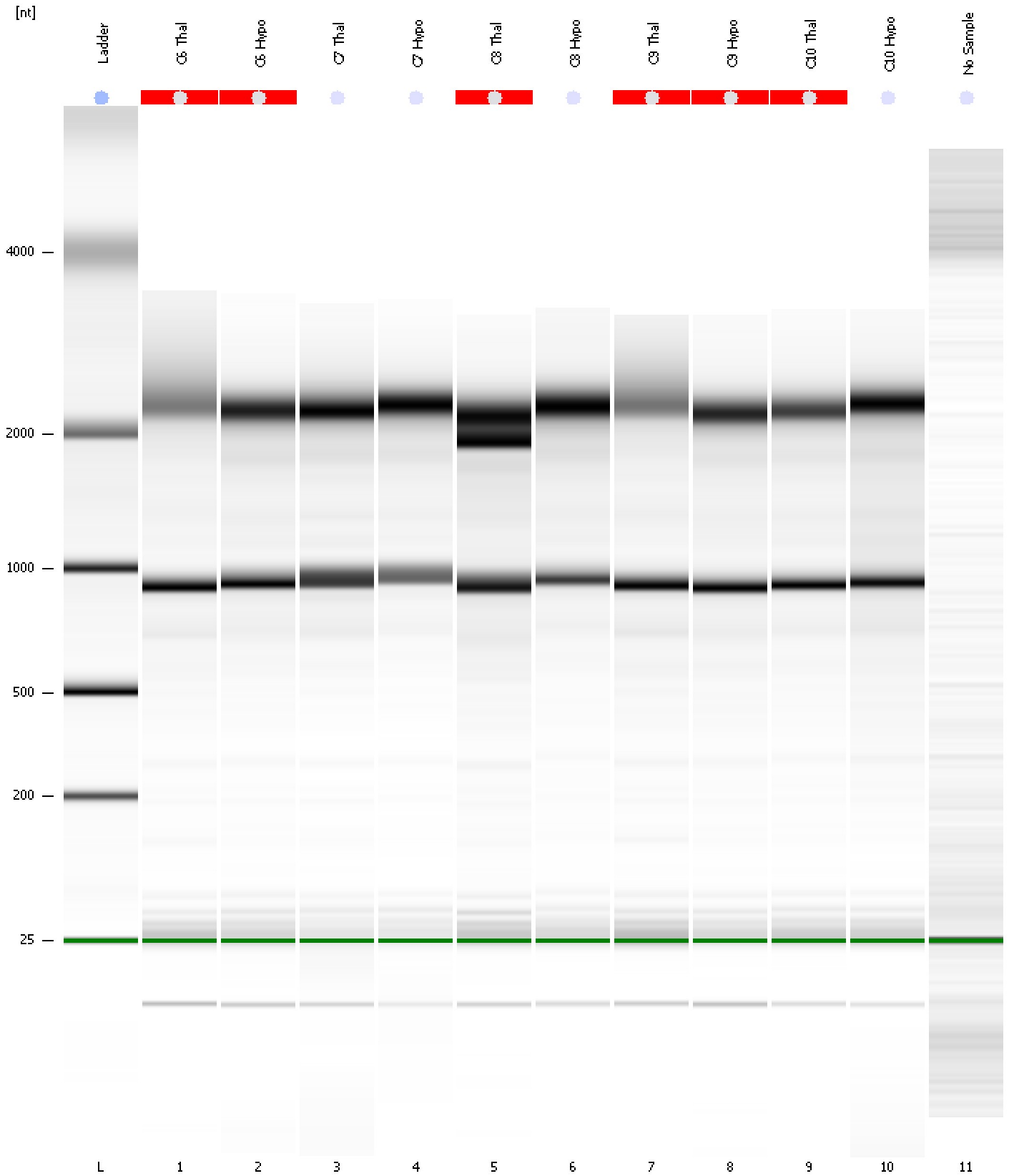
Fragment table for sample 11 : No Sample

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,206	1,280	0.2	3.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
Modified: 8/30/2016 11:41:10 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad

Created: 8/30/2016 11:18:16 AM
 Modified: 8/30/2016 11:41:10 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		8/30/2016 11:41:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-08-30\2016-08-30_002.xad)		Instrument	Run		8/30/2016 11:18:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/30/2016 11:18:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/30/2016 11:18:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/30/2016 11:18:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/30/2016 11:18:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/30/2016 11:18:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/30/2016 11:18:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1