

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-12\2016-07-12_001.xad

Created: 7/12/2016 10:33:19 AM
Modified: 7/12/2016 10:53:22 AM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

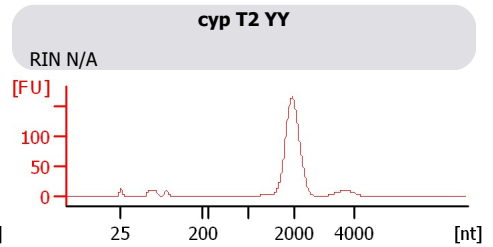
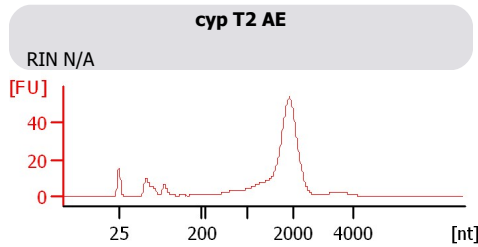
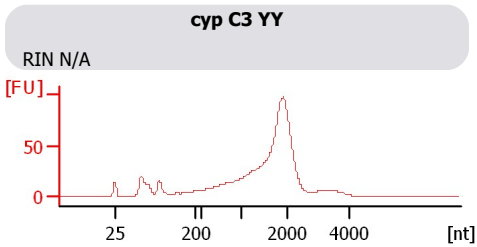
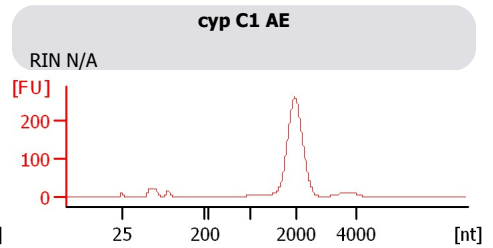
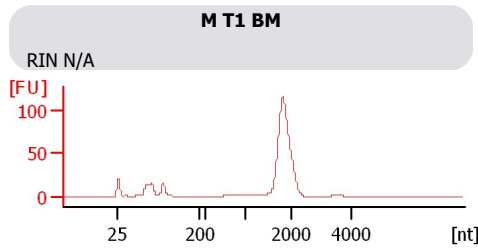
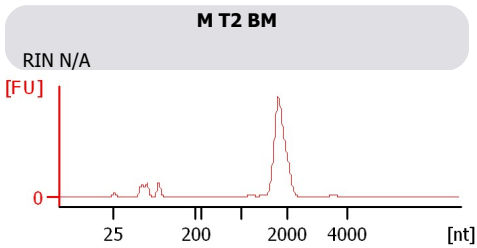
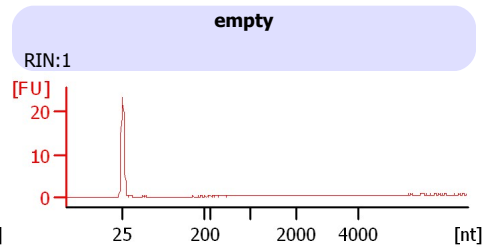
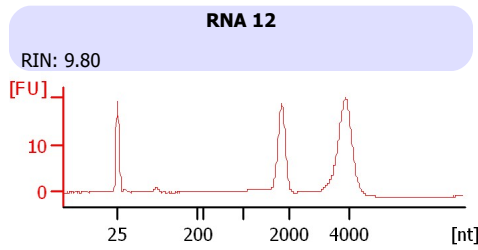
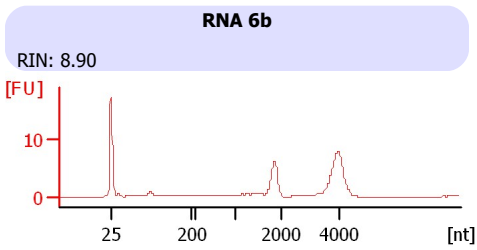
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
RNA 6b		✓	RIN: 8.90	
RNA 12		✓	RIN: 9.80	
empty		✓	RIN:1	
M T2 BM		✓	RIN N/A	
M T1 BM		✓	RIN N/A	
cyp C1 AE		✓	RIN N/A	
cyp C3 YY		✓	RIN N/A	
cyp T2 AE		✓	RIN N/A	
cyp T2 YY		✓	RIN N/A	
Sample 10				
Sample 11				
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.) : 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/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/μl] : 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

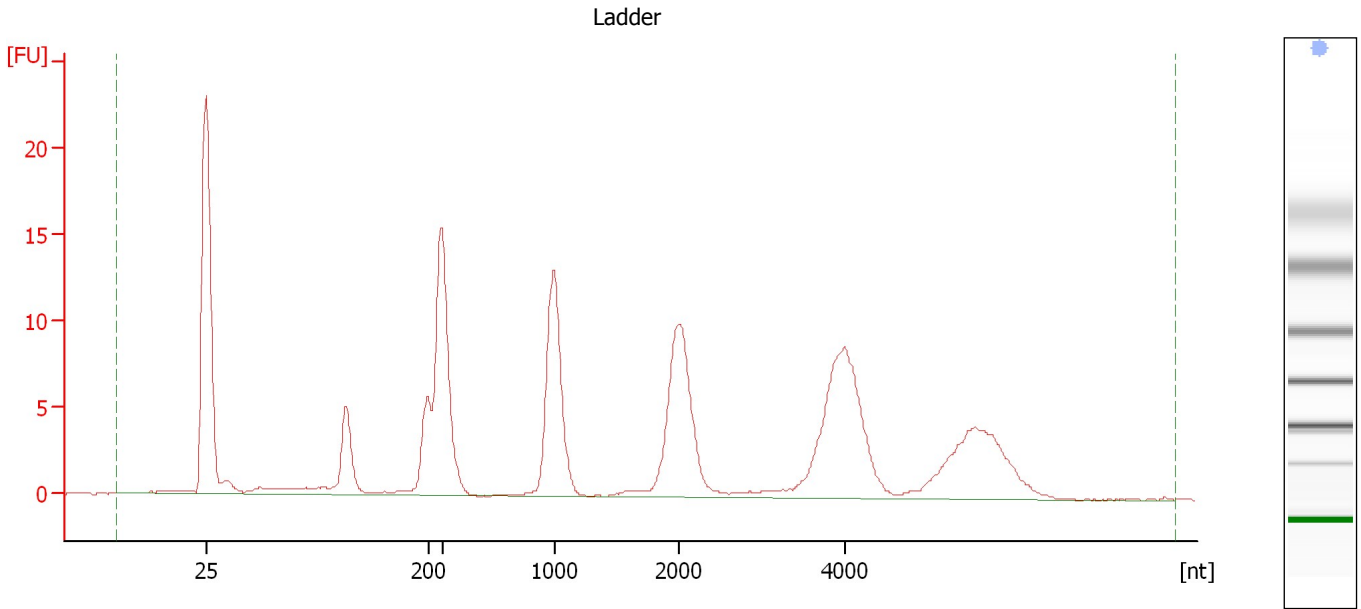
Ladder

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

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Electropherogram Summary



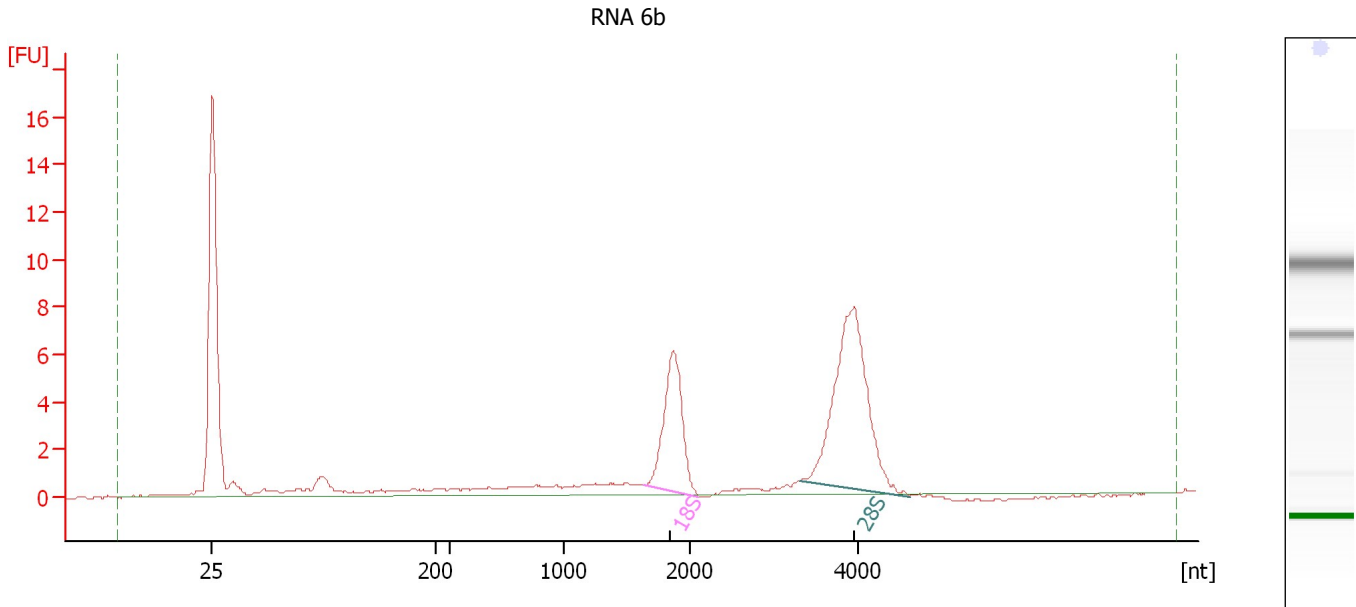
Overall Results for Ladder

RNA Area:	171.8	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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Electropherogram Summary Continued ...



Overall Results for sample 1 : RNA 6b

RNA Area: 63.7 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 371 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 8.90

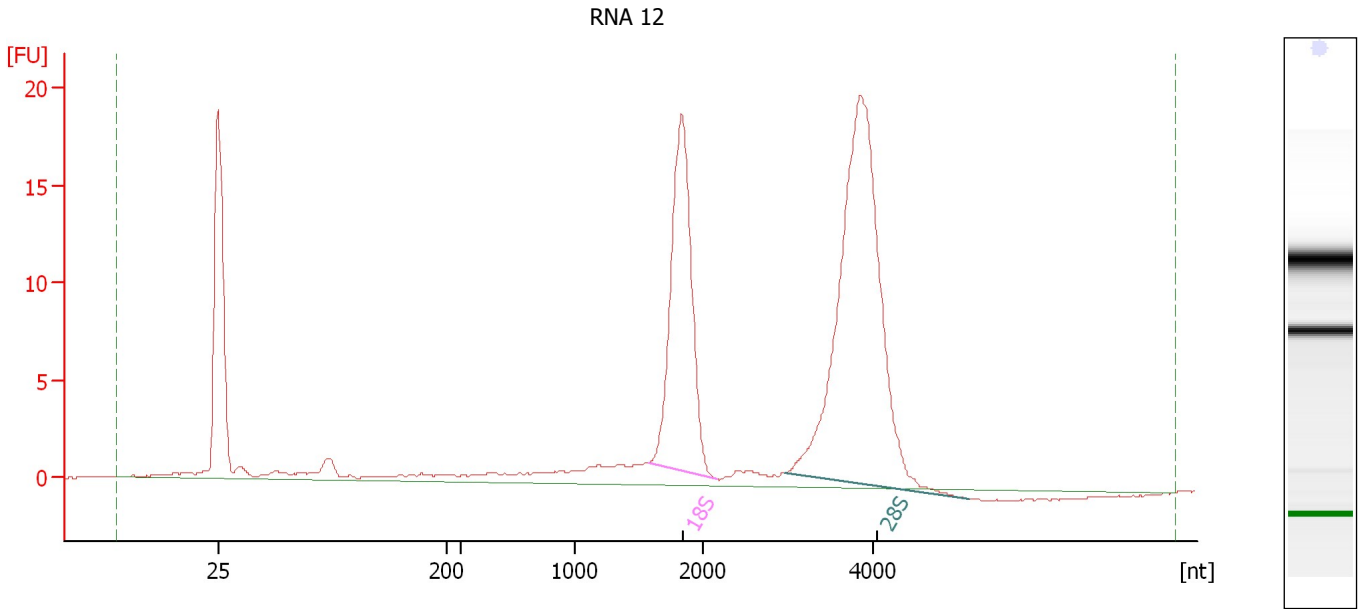
Fragment table for sample 1 : RNA 6b

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	2,093	12.9	20.2
28S	3,319	4,621	25.2	39.5

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Electropherogram Summary Continued ...



Overall Results for sample 2 : RNA 12

RNA Area:	166.7	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	970 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.80

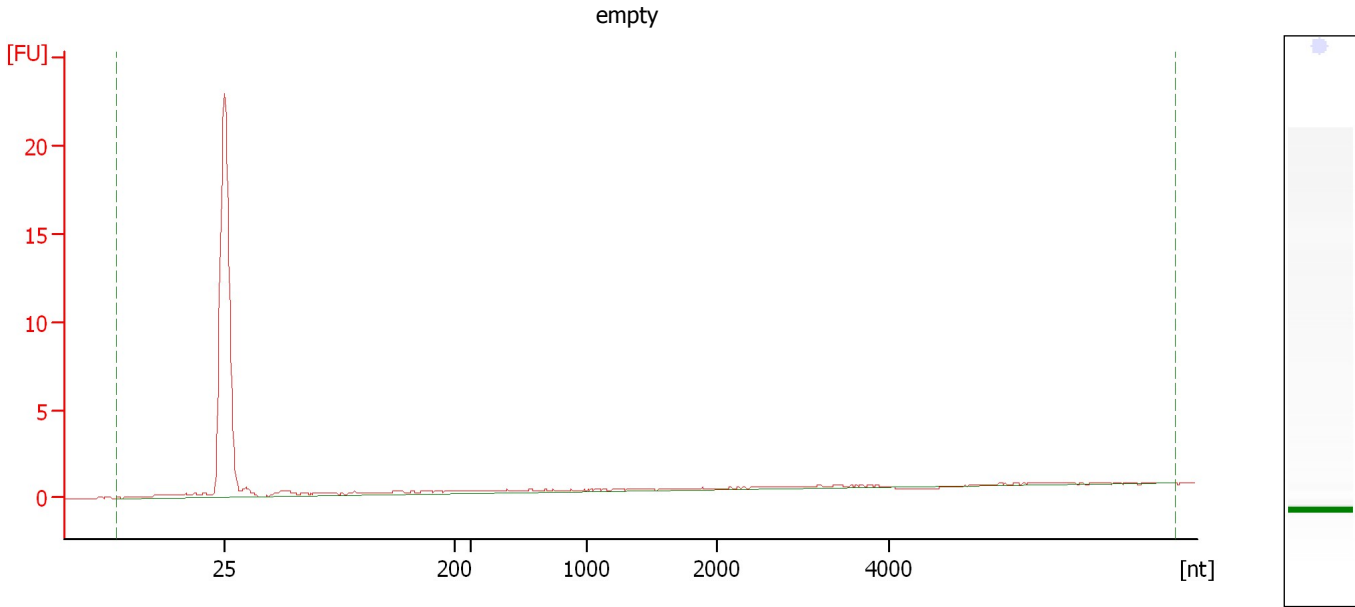
Fragment table for sample 2 : RNA 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,572	2,148	44.5	26.7
28S	2,953	5,130	81.4	48.8

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Electropherogram Summary Continued ...



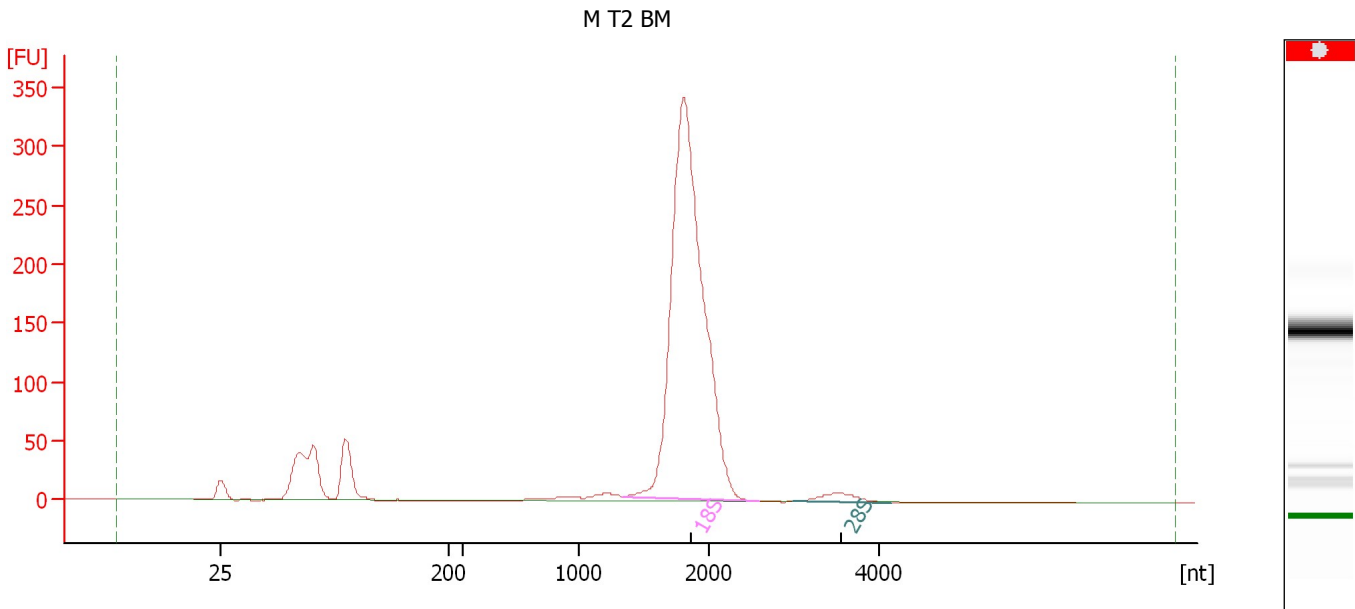
Overall Results for sample 3 : empty

RNA Area:	10.7	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	63 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

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Electropherogram Summary Continued ...



Overall Results for sample 4 : M T2 BM

RNA Area:	1,660.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9,663 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

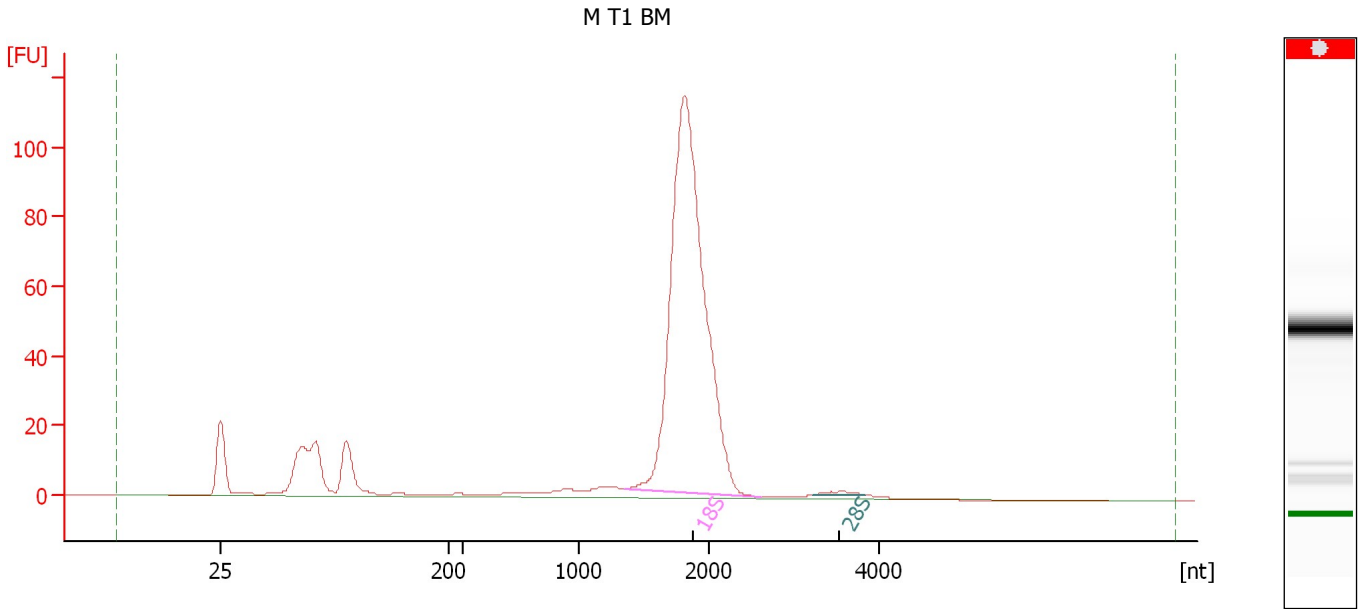
Fragment table for sample 4 : M T2 BM

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,343	2,600	1,250.5	75.3
28S	2,988	4,154	29.0	1.7

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Electropherogram Summary Continued ...



Overall Results for sample 5 : M T1 BM

RNA Area: 629.2 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 3,662 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN N/A

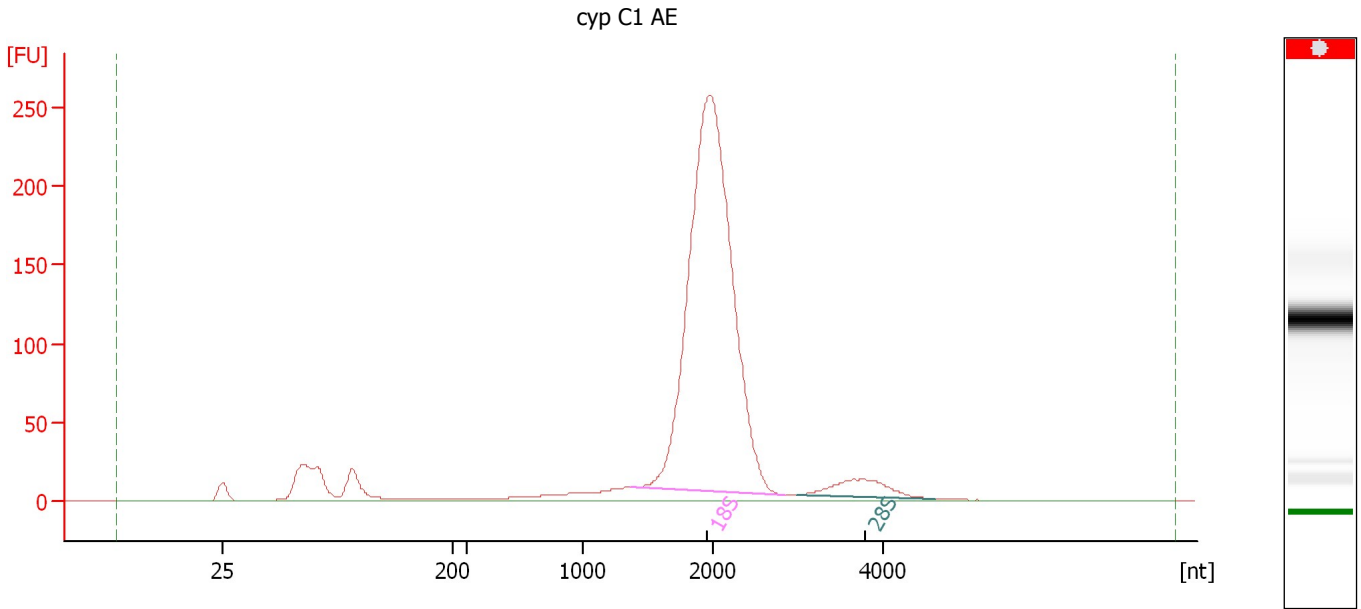
Fragment table for sample 5 : M T1 BM

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,351	2,612	440.9	70.1
28S	3,239	3,840	2.7	0.4

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Electropherogram Summary Continued ...



Overall Results for sample 6 : cyp C1 AE

RNA Area:	1,715.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9,984 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN N/A

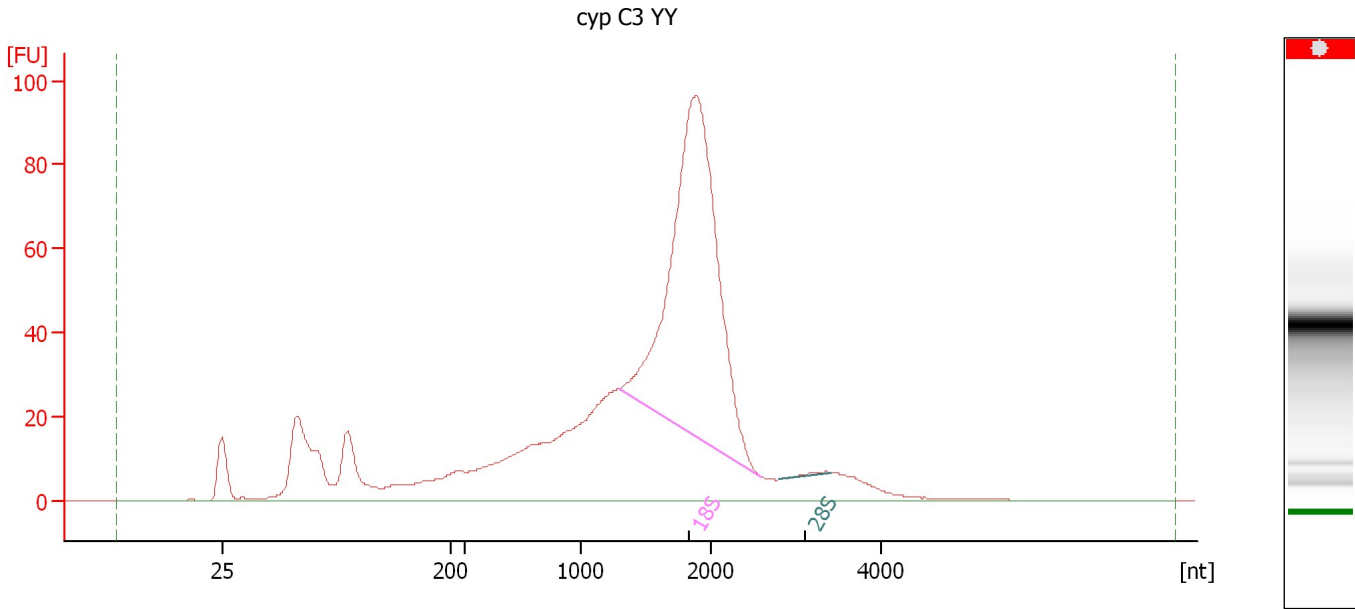
Fragment table for sample 6 : cyp C1 AE

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,371	2,861	1,252.0	73.0
28S	2,986	4,596	63.1	3.7

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Electropherogram Summary Continued ...



Overall Results for sample 7 : cyp C3 YY

RNA Area:	1,208.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7,034 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

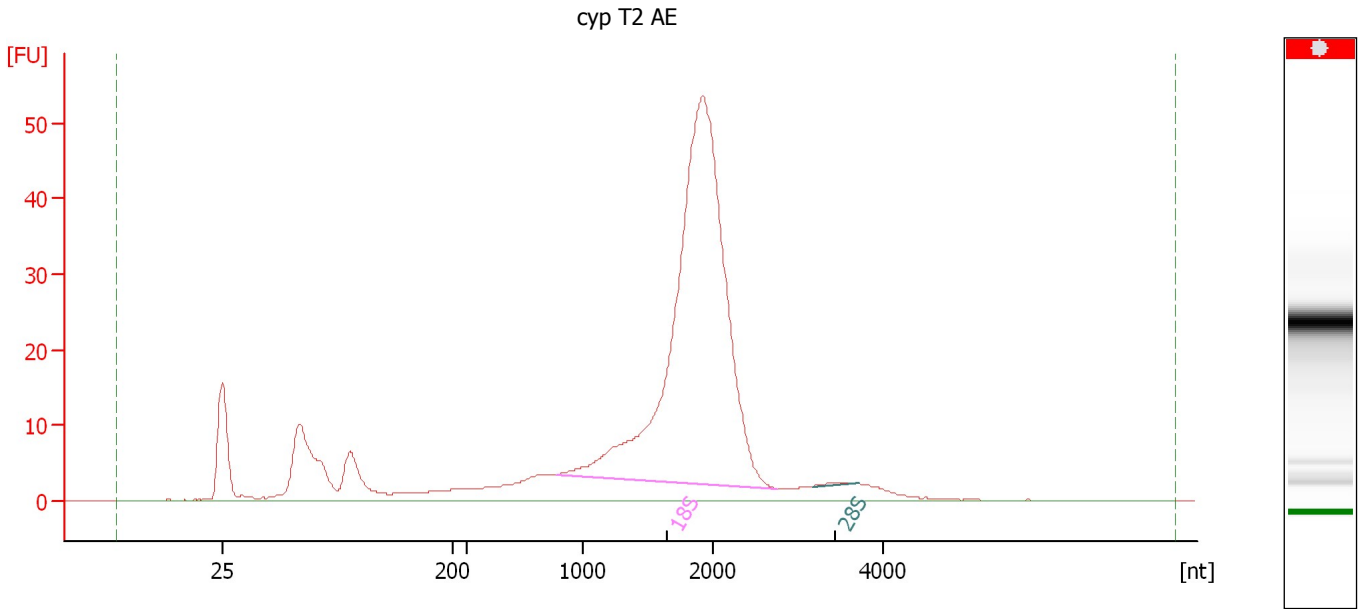
Fragment table for sample 7 : cyp C3 YY

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,295	2,599	438.1	36.3
28S	2,812	3,425	1.6	0.1


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Electropherogram Summary Continued ...



Overall Results for sample 8 : cyp T2 AE

RNA Area:	498.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,901 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

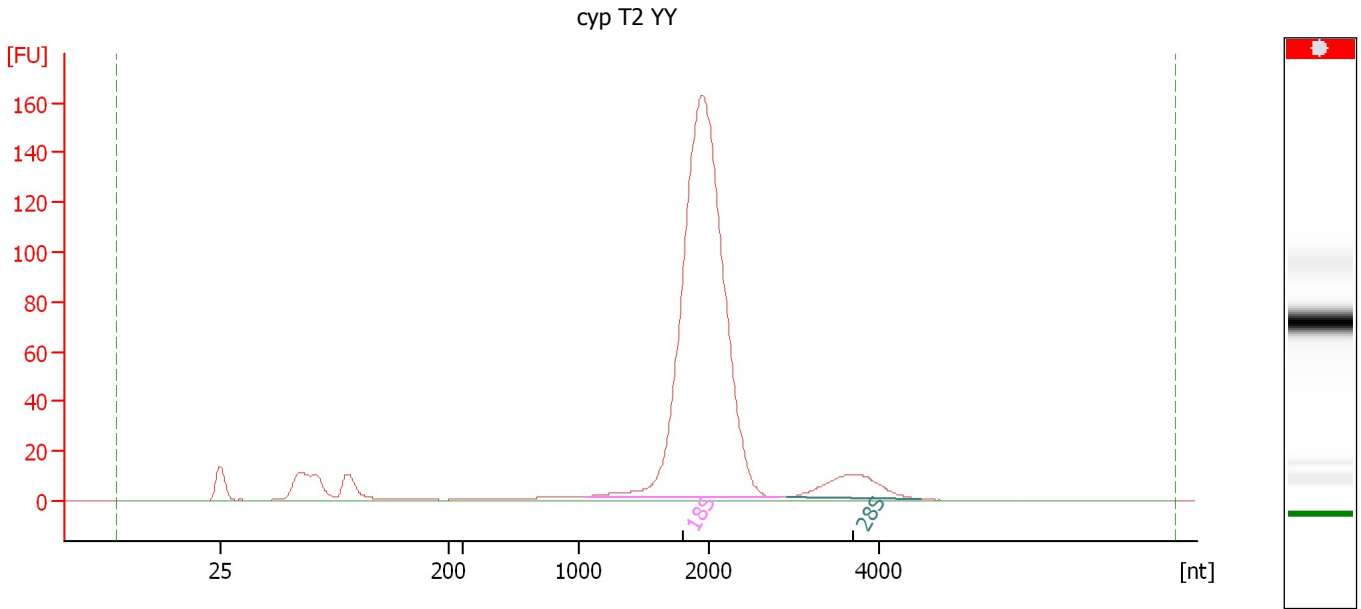
Fragment table for sample 8 : cyp T2 AE

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	884	2,761	306.1	61.4
28S	3,173	3,710	0.8	0.2

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Electropherogram Summary Continued ...



Overall Results for sample 9 : cyp T2 YY

RNA Area:	989.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5,758 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN N/A

Fragment table for sample 9 : cyp T2 YY

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,052	2,838	769.1	77.7
28S	2,925	4,505	52.2	5.3

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Gel Image

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Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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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: 10)		Instrument	Run		7/12/2016 10:53:21 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\2016-07-12\2016-07-12_001.xad)		Instrument	Run		7/12/2016 10:33:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/12/2016 10:33:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/12/2016 10:33:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/12/2016 10:33:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/12/2016 10:33:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/12/2016 10:33:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/12/2016 10:33:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1