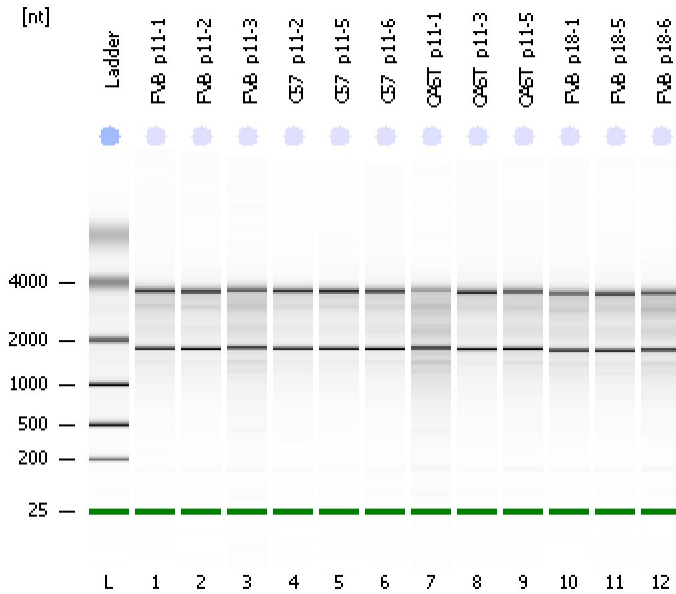


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electrophoresis File Run Summary



Instrument Information:

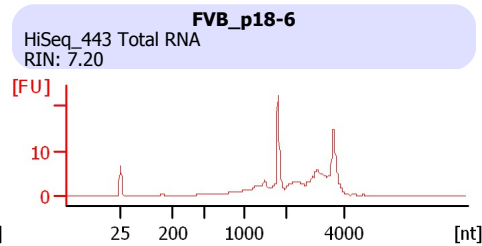
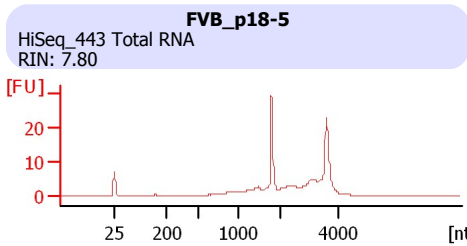
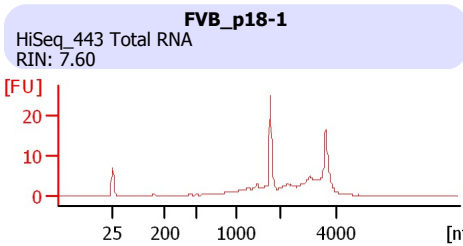
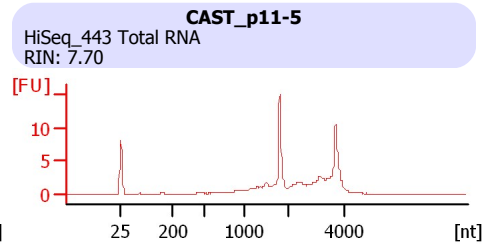
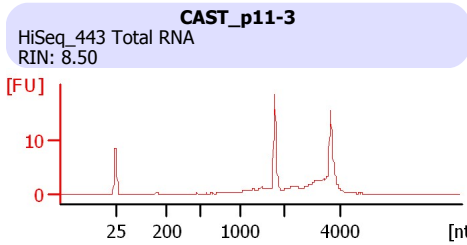
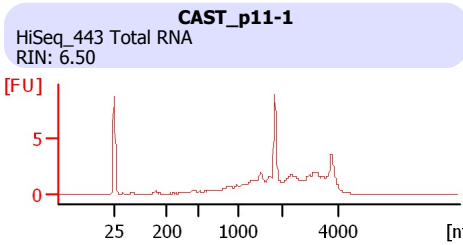
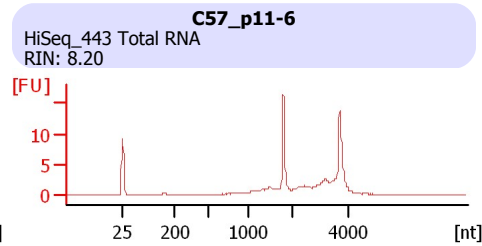
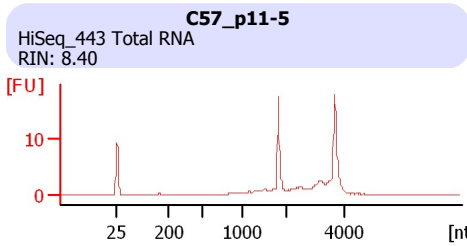
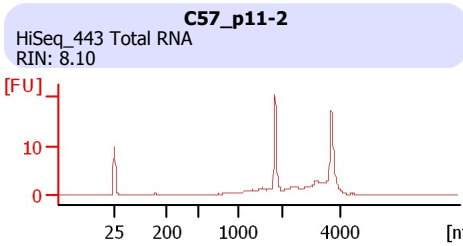
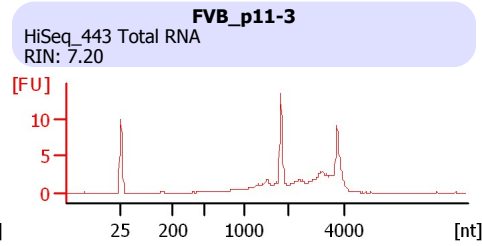
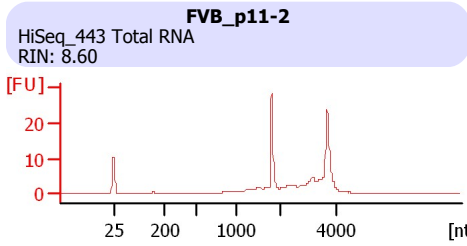
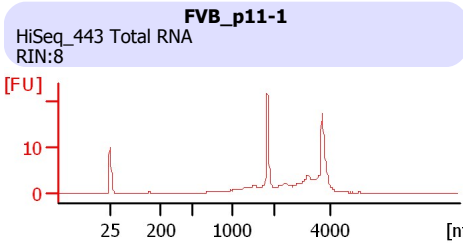
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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:



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
FVB_p11-1	HiSeq_443 Total RNA	✓	RIN:8	
FVB_p11-2	HiSeq_443 Total RNA	✓	RIN: 8.60	
FVB_p11-3	HiSeq_443 Total RNA	✓	RIN: 7.20	
C57_p11-2	HiSeq_443 Total RNA	✓	RIN: 8.10	
C57_p11-5	HiSeq_443 Total RNA	✓	RIN: 8.40	
C57_p11-6	HiSeq_443 Total RNA	✓	RIN: 8.20	
CAST_p11-1	HiSeq_443 Total RNA	✓	RIN: 6.50	
CAST_p11-3	HiSeq_443 Total RNA	✓	RIN: 8.50	
CAST_p11-5	HiSeq_443 Total RNA	✓	RIN: 7.70	
FVB_p18-1	HiSeq_443 Total RNA	✓	RIN: 7.60	
FVB_p18-5	HiSeq_443 Total RNA	✓	RIN: 7.80	
FVB_p18-6	HiSeq_443 Total RNA	✓	RIN: 7.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

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

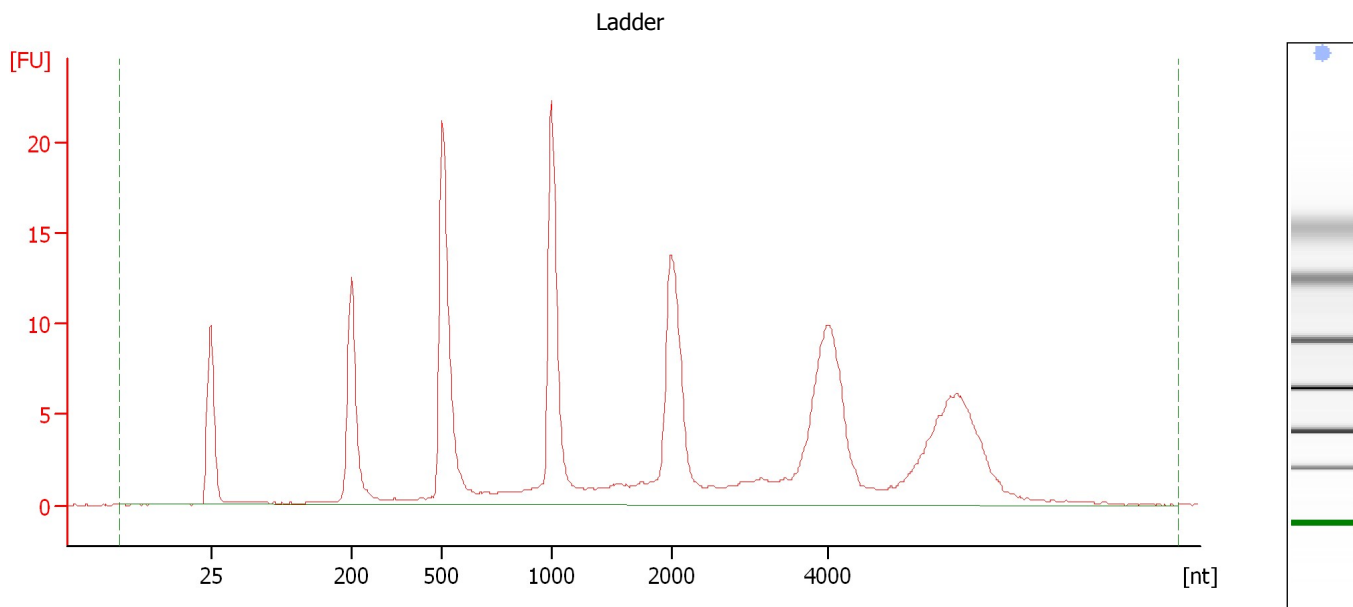
Ladder

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\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary



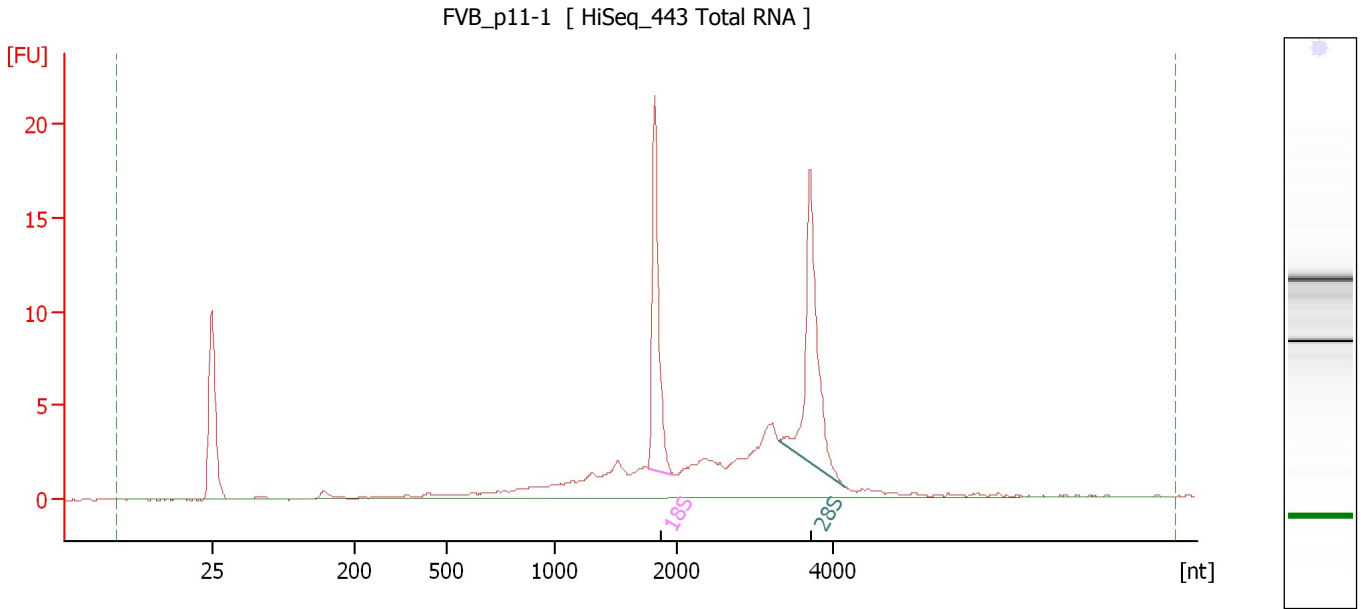
Overall Results for Ladder

RNA Area:	204.0	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : FVB_p11-1

RNA Area: 97.0 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 71 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN:8

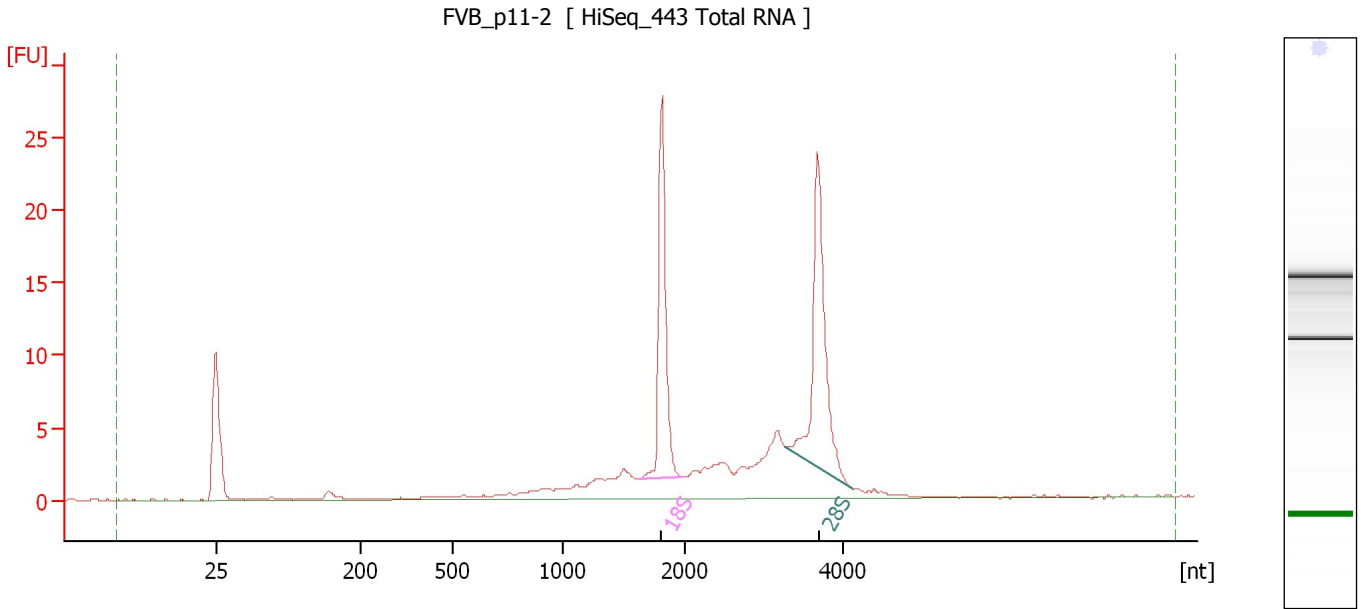
Fragment table for sample 1 : FVB_p11-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,764	1,976	15.5	16.0
28S	3,295	4,137	18.9	19.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : FVB_p11-2

RNA Area:	111.7	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	82 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.60

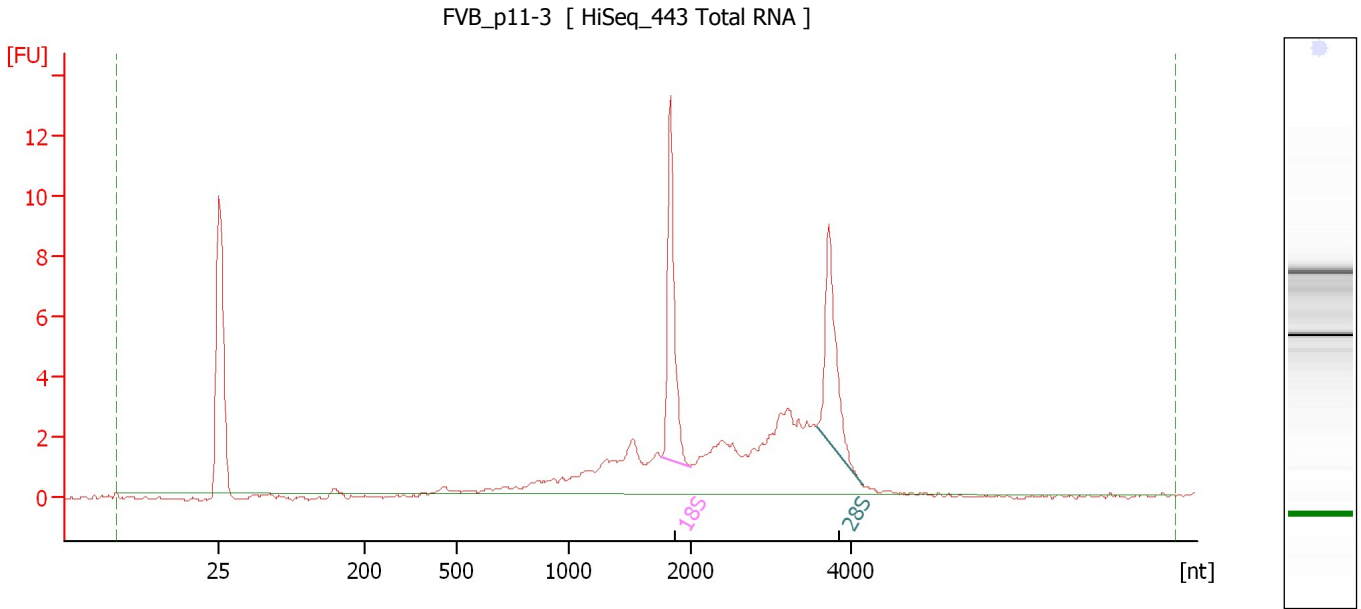
Fragment table for sample 2 : FVB_p11-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,988	21.3	19.0
28S	3,276	4,111	25.9	23.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : FVB_p11-3

RNA Area: 62.1 RNA Integrity Number (RIN): 7.2 (B.02.08)
RNA Concentration: 46 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 7.20

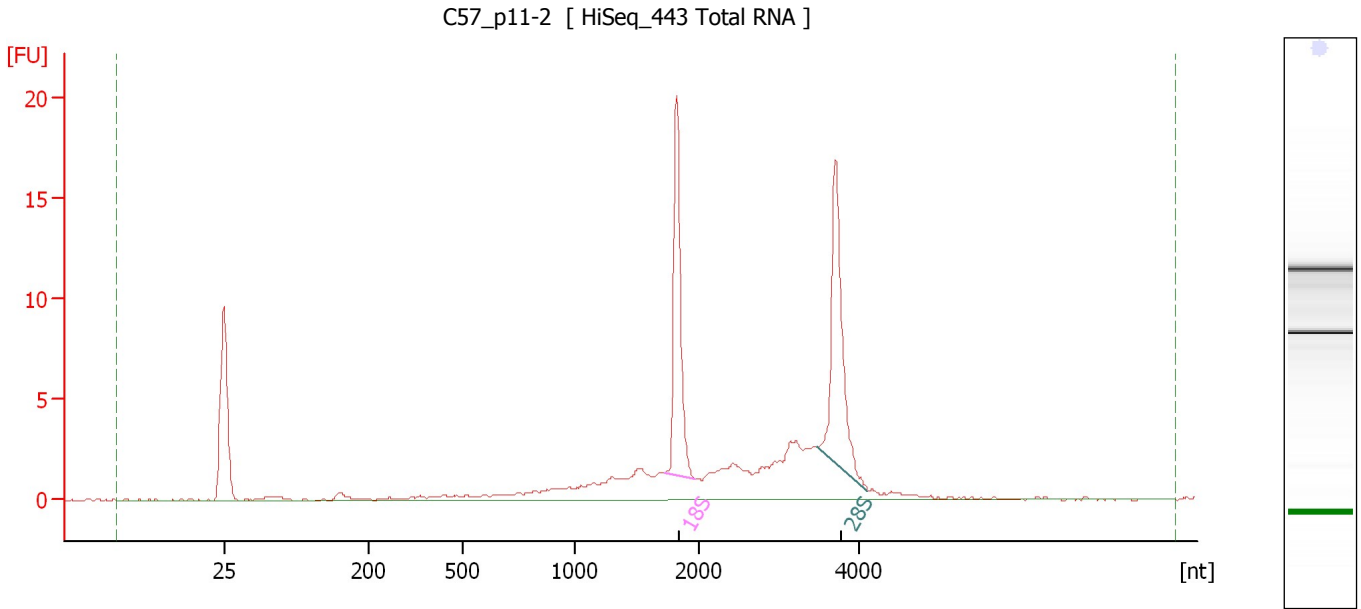
Fragment table for sample 3 : FVB_p11-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,755	2,000	9.6	15.5
28S	3,580	4,155	8.0	13.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : C57_p11-2

RNA Area: 79.9 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 59 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 8.10

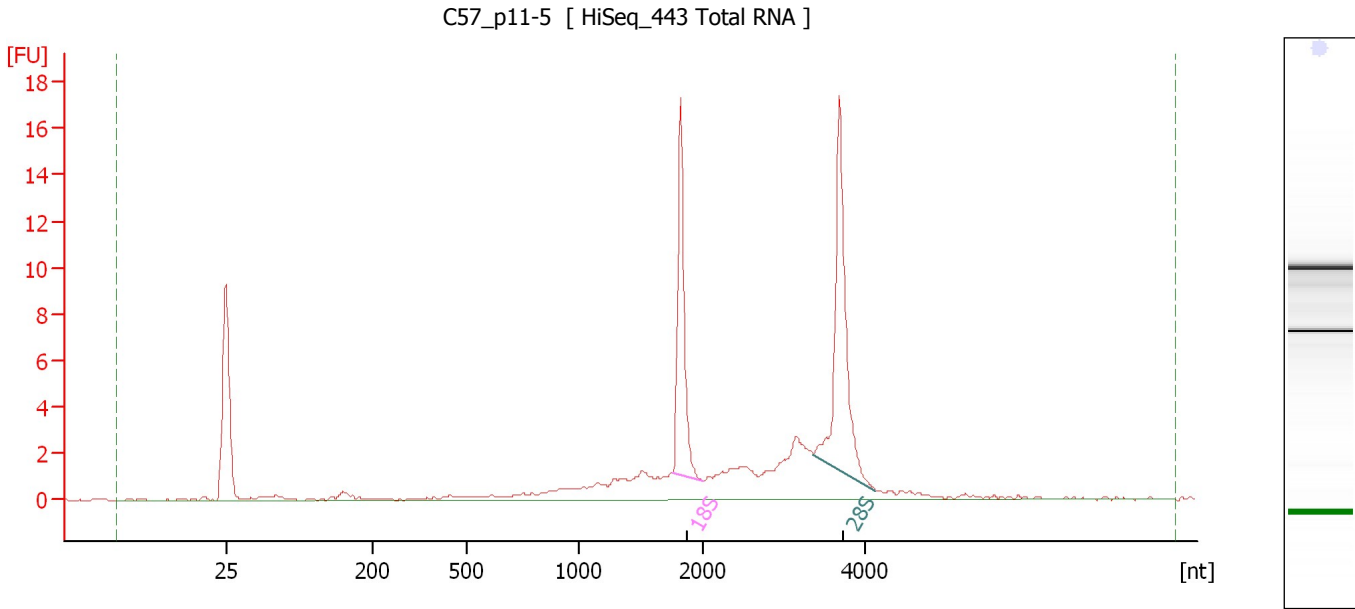
Fragment table for sample 4 : C57_p11-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,726	1,968	14.3	17.9
28S	3,479	4,090	15.7	19.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
 Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : C57_p11-5

RNA Area:	71.8	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	53 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.40

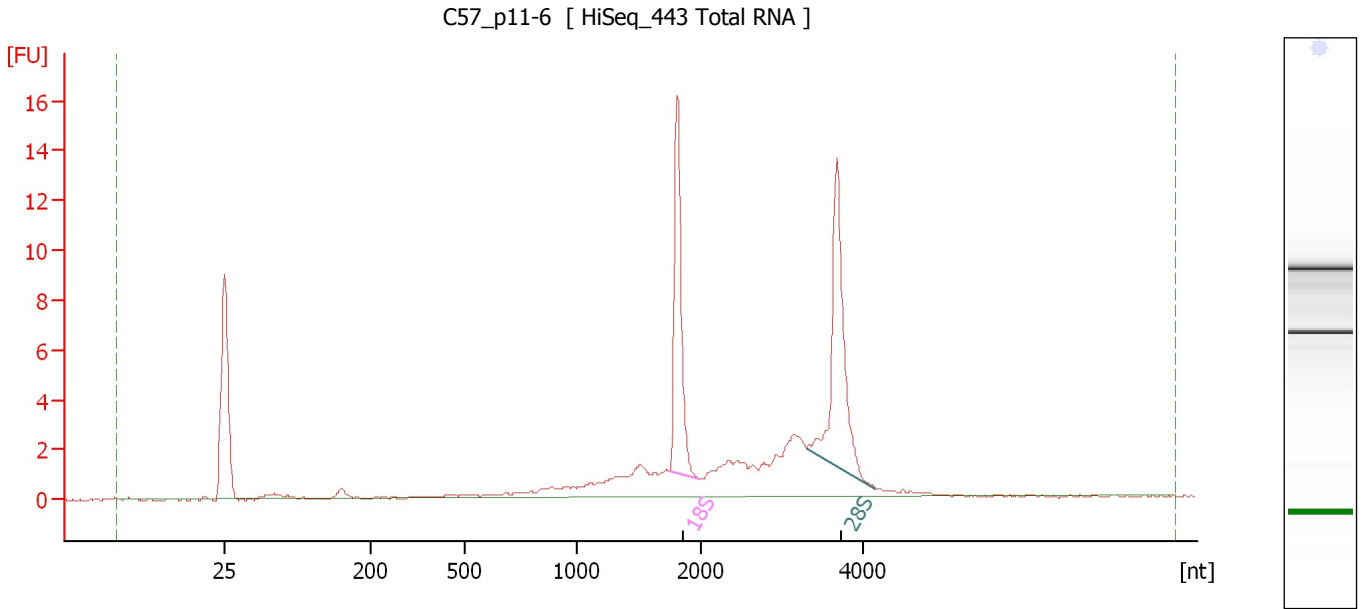
Fragment table for sample 5 : C57_p11-5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,763	2,007	12.1	16.9
28S	3,369	4,136	16.6	23.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : C57_p11-6

RNA Area:	62.9	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	46 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.20

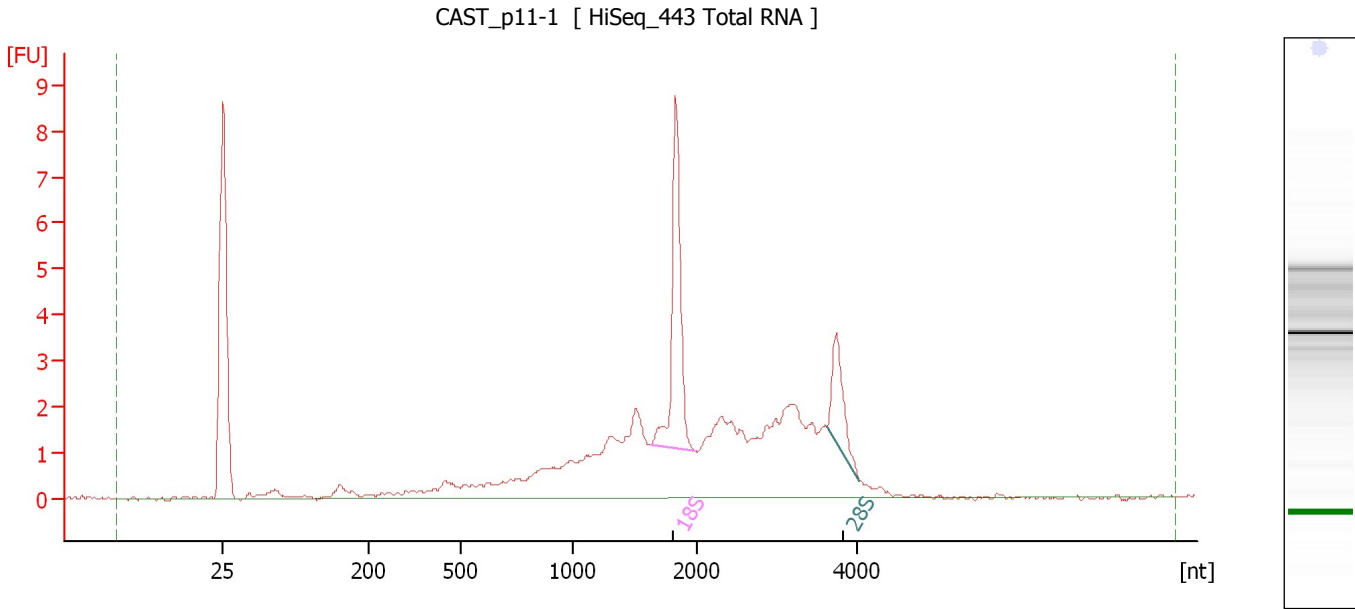
Fragment table for sample 6 : C57_p11-6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,745	1,986	11.6	18.5
28S	3,305	4,166	14.2	22.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CAST_p11-1

RNA Area:	57.6	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	42 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 6.50

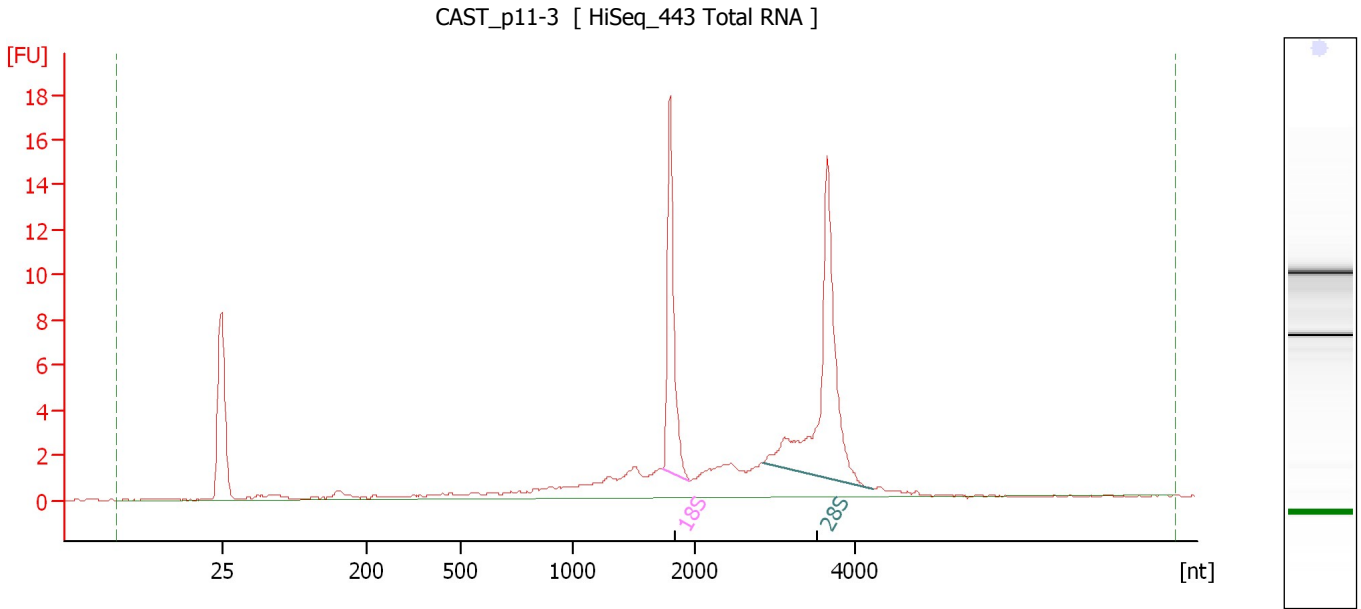
Fragment table for sample 7 : CAST_p11-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,629	1,976	7.3	12.6
28S	3,627	4,026	2.6	4.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CAST_p11-3

RNA Area: 77.6 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 57 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 8.50

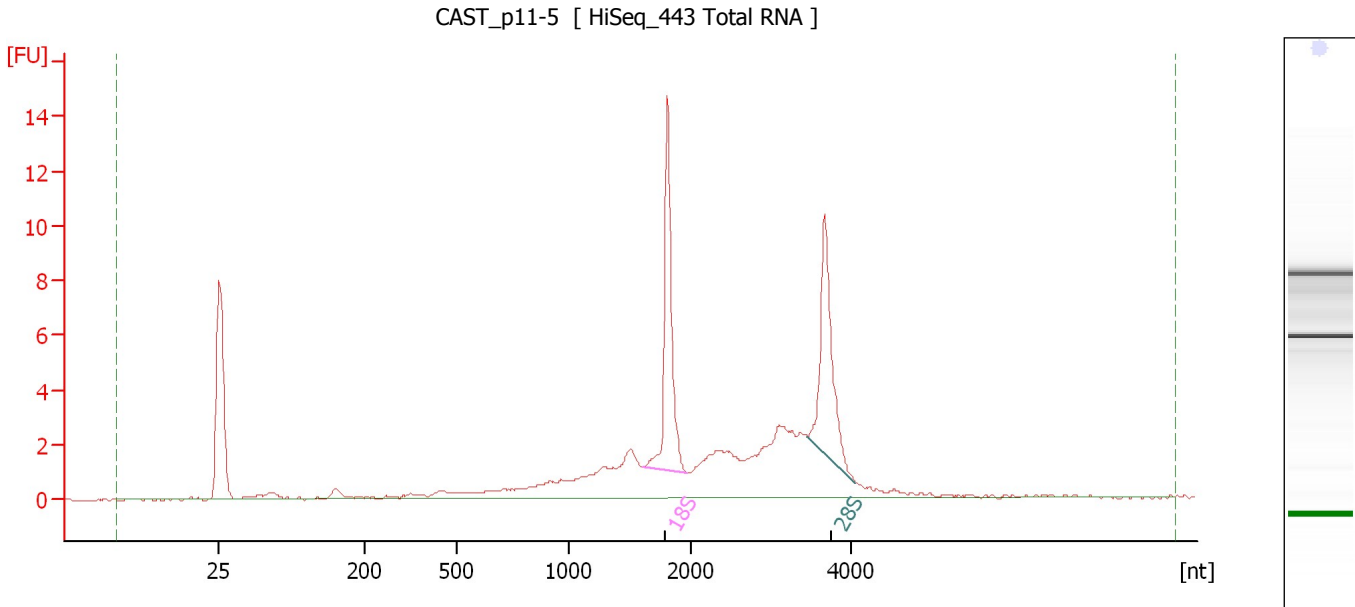
Fragment table for sample 8 : CAST_p11-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,741	1,958	13.1	16.9
28S	2,842	4,216	22.6	29.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
 Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : CAST_p11-5

RNA Area:	74.3	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	55 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 7.70

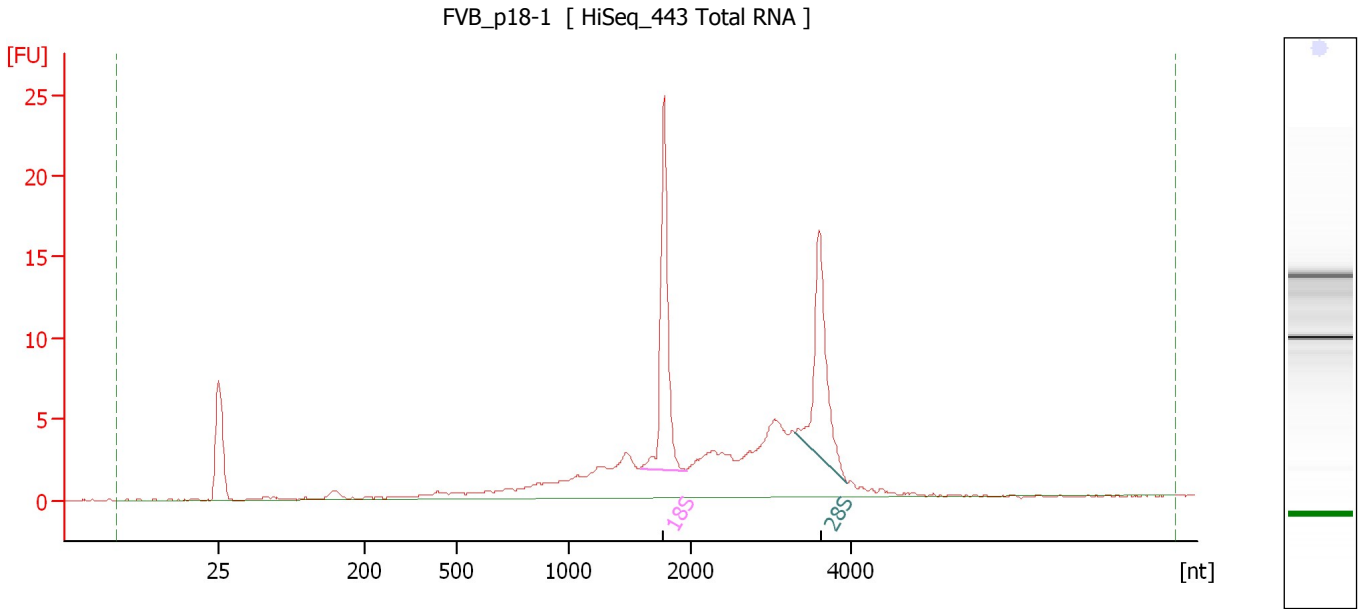
Fragment table for sample 9 : CAST_p11-5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,607	1,965	11.9	16.0
28S	3,459	4,062	10.2	13.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : FVB_p18-1

RNA Area: 117.5 RNA Integrity Number (RIN): 7.6 (B.02.08)
RNA Concentration: 86 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 7.60

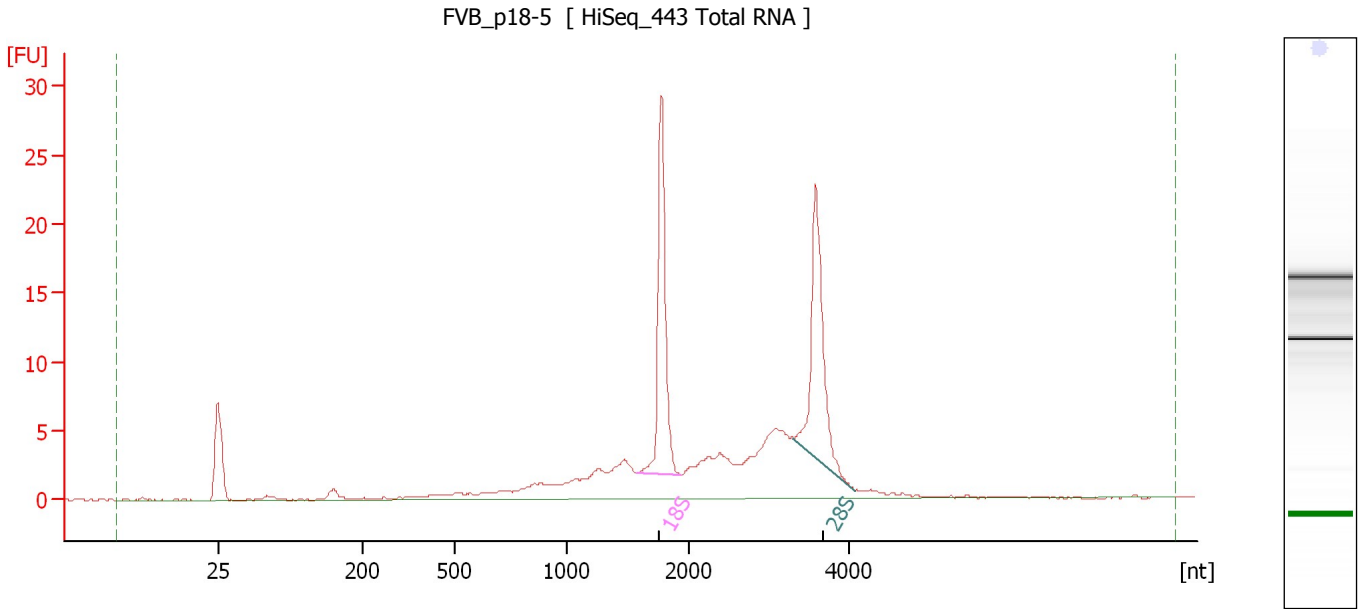
Fragment table for sample 10 : FVB_p18-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,590	1,965	19.1	16.3
28S	3,312	3,954	16.5	14.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : FVB_p18-5

RNA Area:	137.1	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	101 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.80

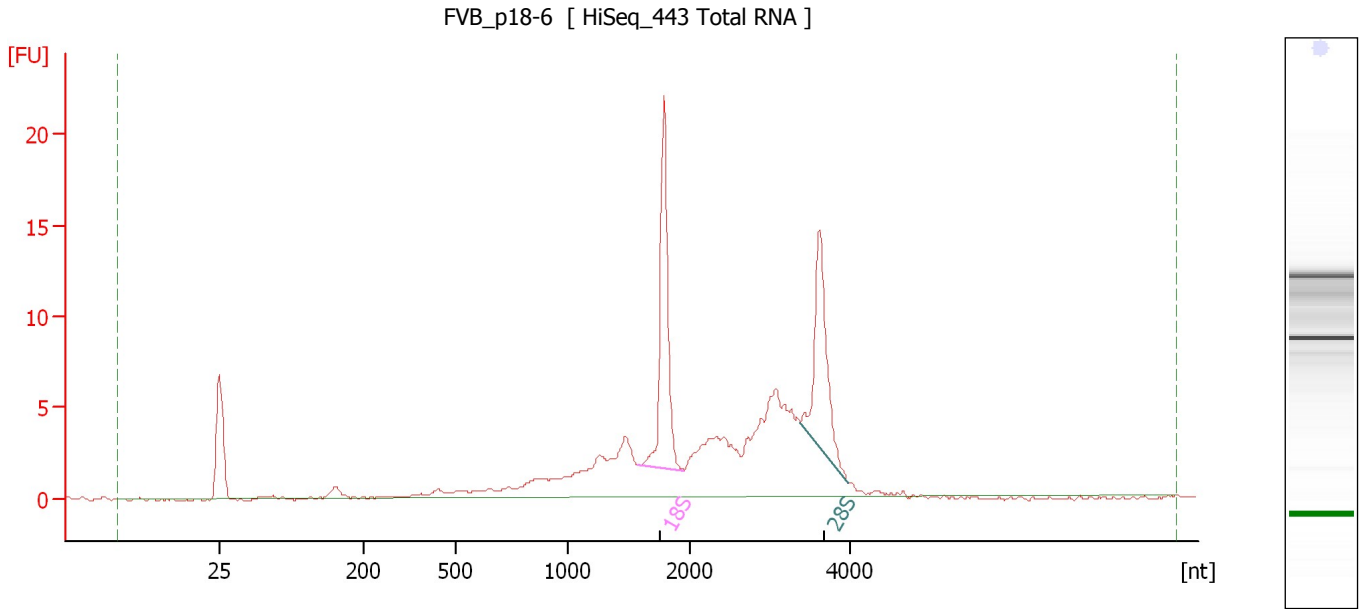
Fragment table for sample 11 : FVB_p18-5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,570	1,938	23.2	16.9
28S	3,313	4,078	23.2	17.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : FVB_p18-6

RNA Area: 121.6 RNA Integrity Number (RIN): 7.2 (B.02.08)
RNA Concentration: 89 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 7.20

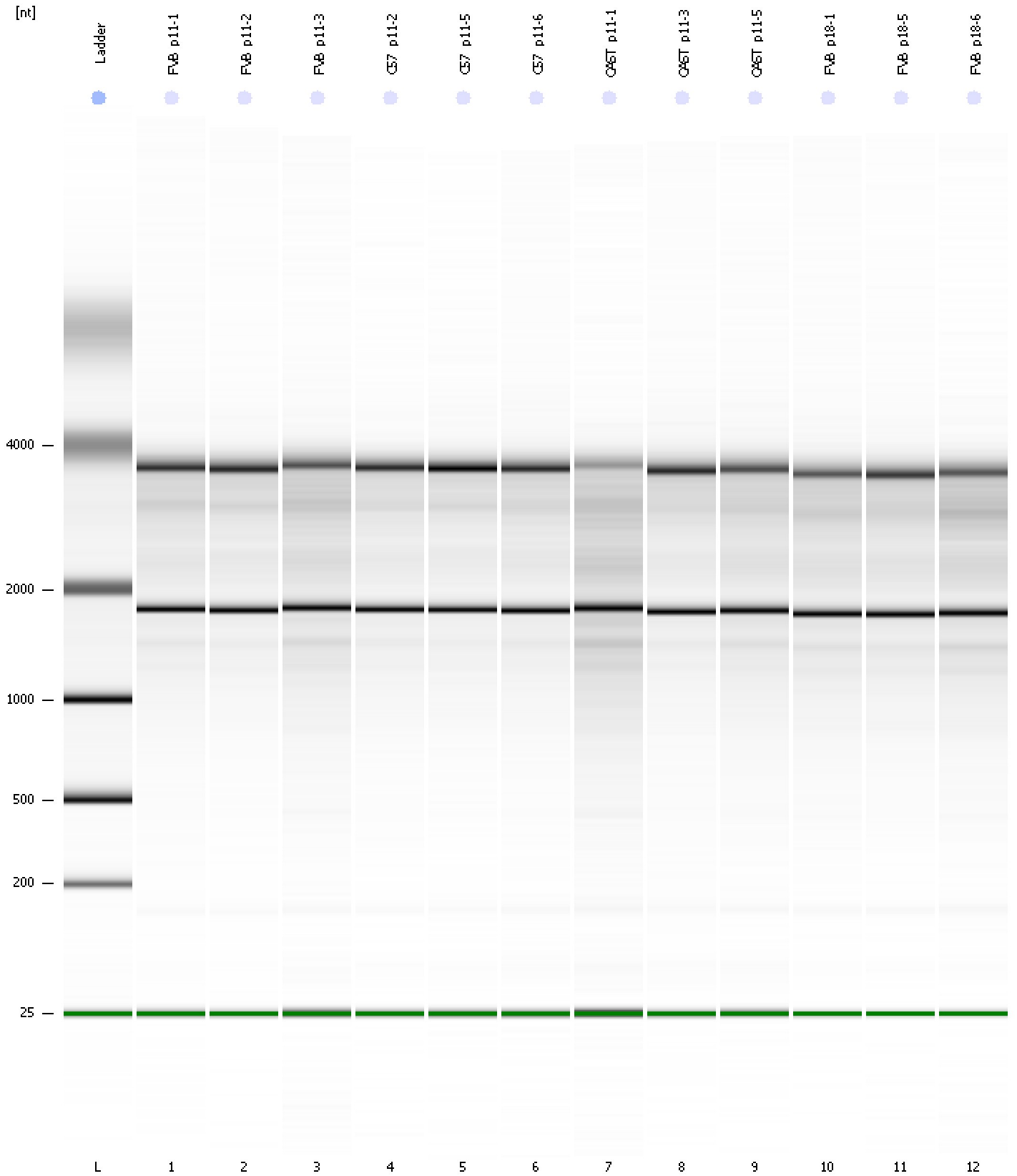
Fragment table for sample 12 : FVB_p18-6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,579	1,955	17.7	14.5
28S	3,394	3,984	14.5	11.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Gel Image

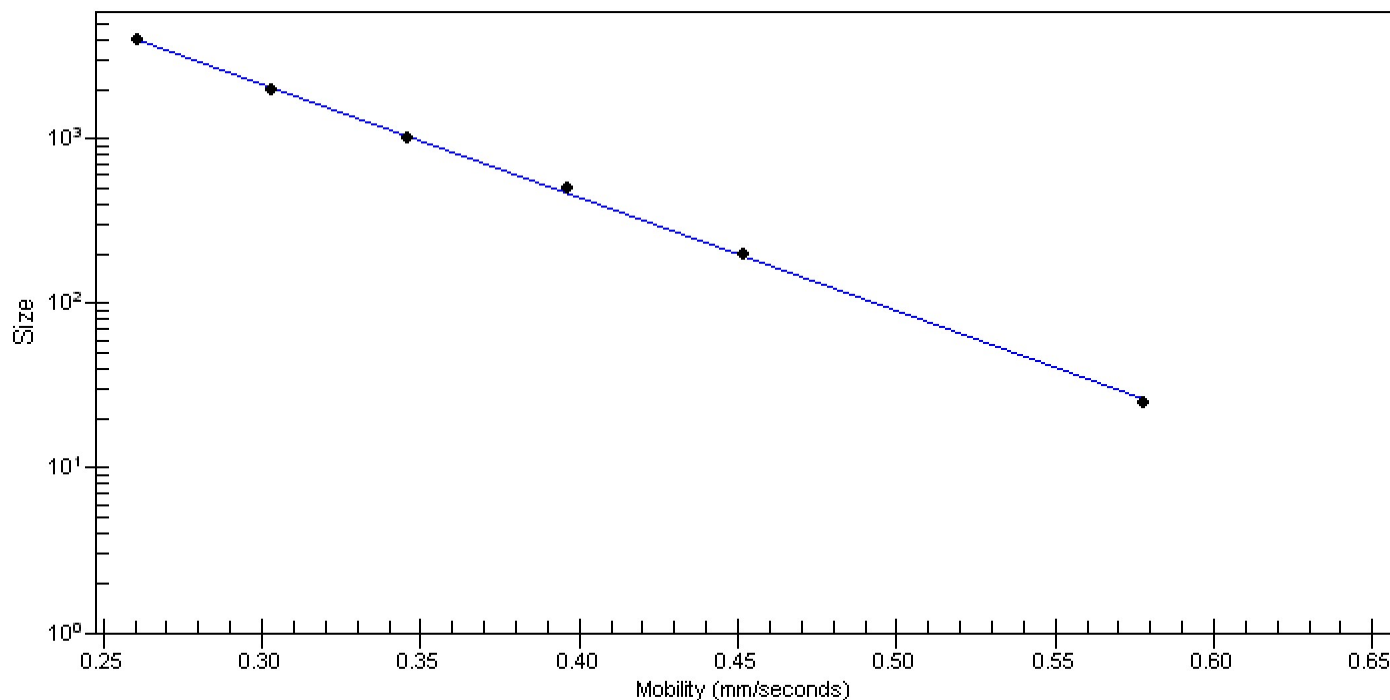


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
Modified: 3/29/2016 11:33:03 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_001.xad

Created: 3/29/2016 11:09:04 AM
 Modified: 3/29/2016 11:33:03 AM

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		3/29/2016 11:32:53 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\2016-03-29\2016-03-29_001.xad)		Instrument	Run		3/29/2016 11:09:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/29/2016 11:09:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/29/2016 11:09:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/29/2016 11:09:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/29/2016 11:09:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/29/2016 11:09:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/29/2016 11:09:10 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1