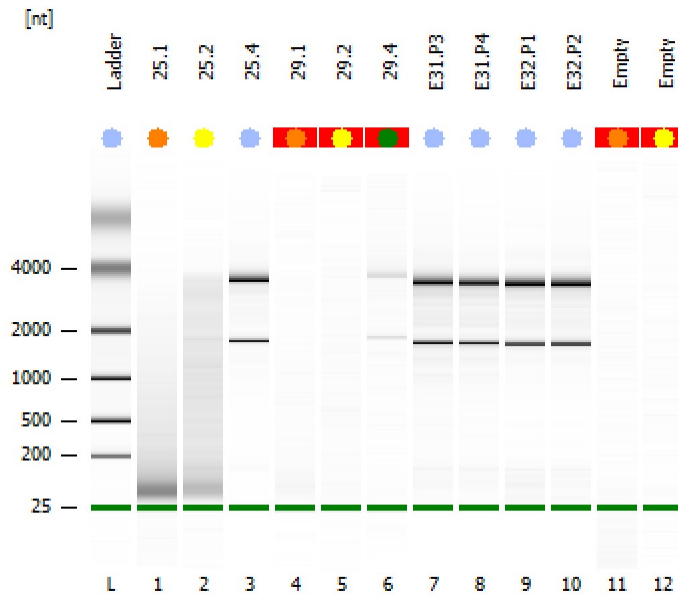


Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electrophoresis File Run Summary



Instrument Information:

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

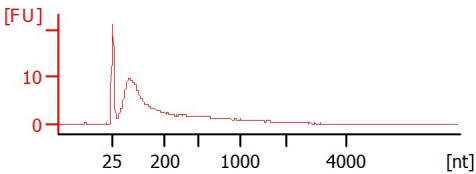
Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\DV200 RNA Nano.xsy
 Assay Class: Eukaryote Total RNA Nano
 Version: 2.6
 Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
 Modified for DV200 Analysis

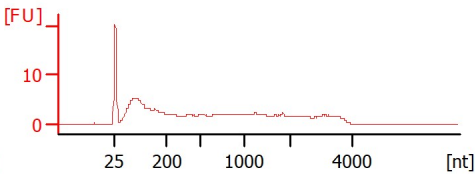
Chip Information:

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

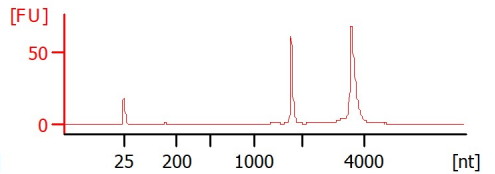
25.1
 RIN: 2.50 ; DV200 30-50%



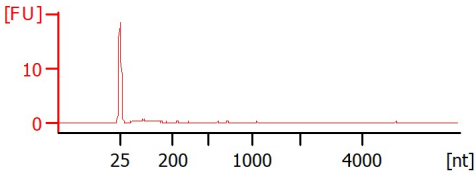
25.2
 RIN: 2.20 ; DV200 50-70%



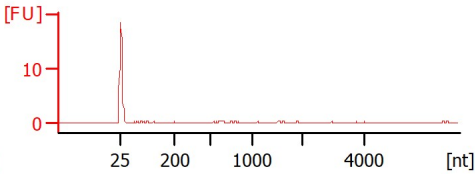
25.4
 RIN:10



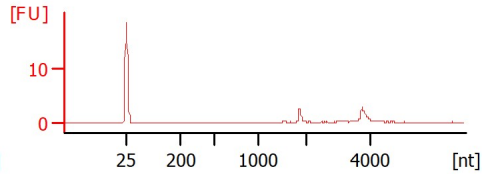
29.1
 RIN: N/A ; DV200 30-50%



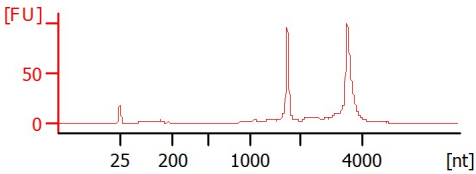
29.2
 RIN: N/A ; DV200 50-70%



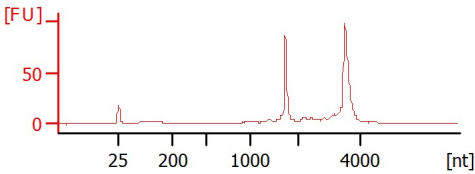
29.4
 RIN N/A ; DV200 > 70%



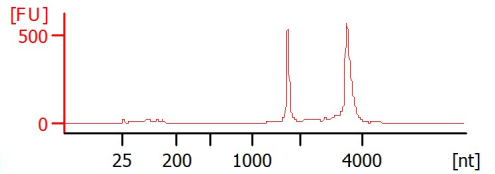
E31.P3
 RIN: 9.20



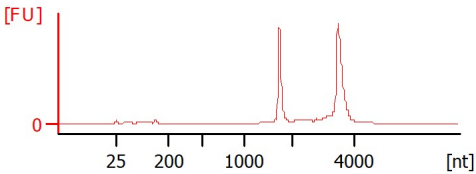
E31.P4
 RIN: 9.40



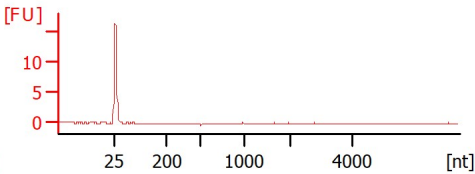
E32.P1
 RIN: 9.40



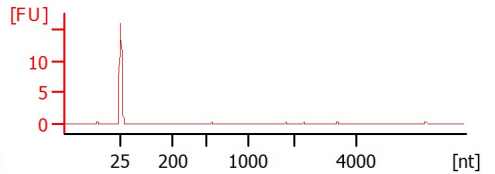
E32.P2
 RIN: 9.50



Empty
 RIN: N/A ; DV200 30-50%



Empty
 RIN: N/A ; DV200 50-70%



Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
25.1		✓	RIN: 2.50 ; DV200 30-50%	Orange
25.2		✓	RIN: 2.20 ; DV200 50-70%	Yellow
25.4		✓	RIN:10	Blue
29.1		✓	RIN: N/A ; DV200 30-50%	Orange
29.2		✓	RIN: N/A; DV200 50-70%	Yellow
29.4		✓	RIN N/A ; DV200 > 70%	Green
E31.P3		✓	RIN: 9.20	Blue
E31.P4		✓	RIN: 9.40	Blue
E32.P1		✓	RIN: 9.40	Blue
E32.P2		✓	RIN: 9.50	Blue
Empty		✓	RIN: N/A ; DV200 30-50%	Orange
Empty		✓	RIN: N/A; DV200 50-70%	Yellow
Ladder		✓	All Other Samples	Blue

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 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

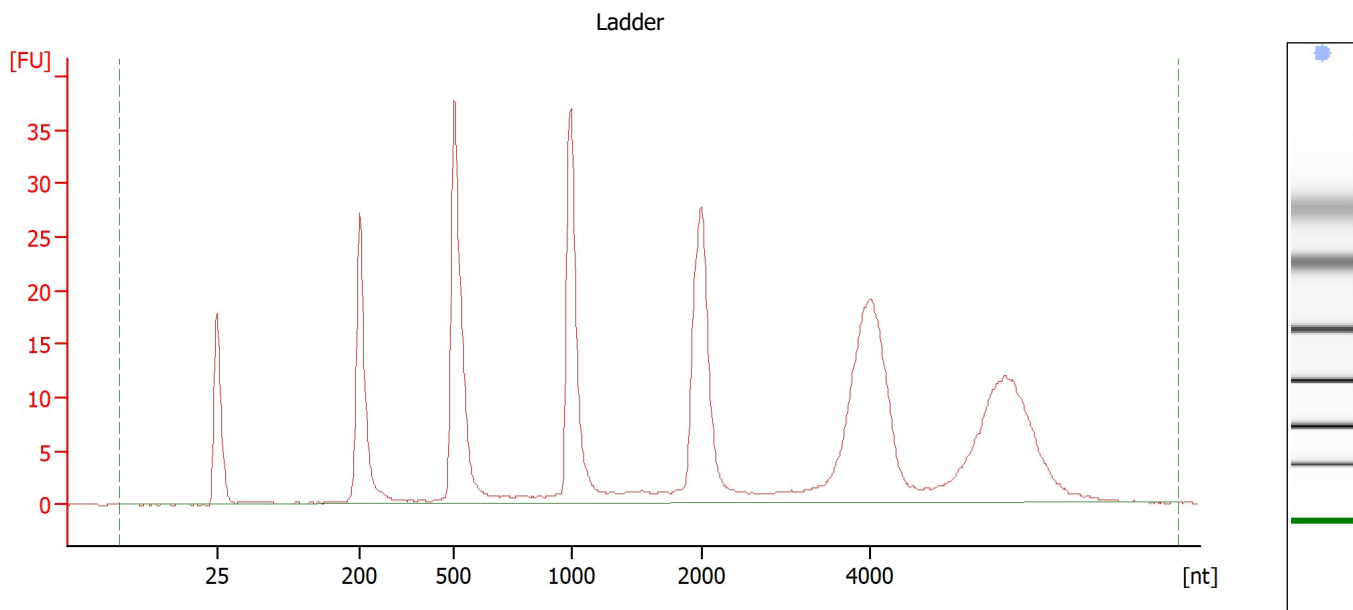
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary



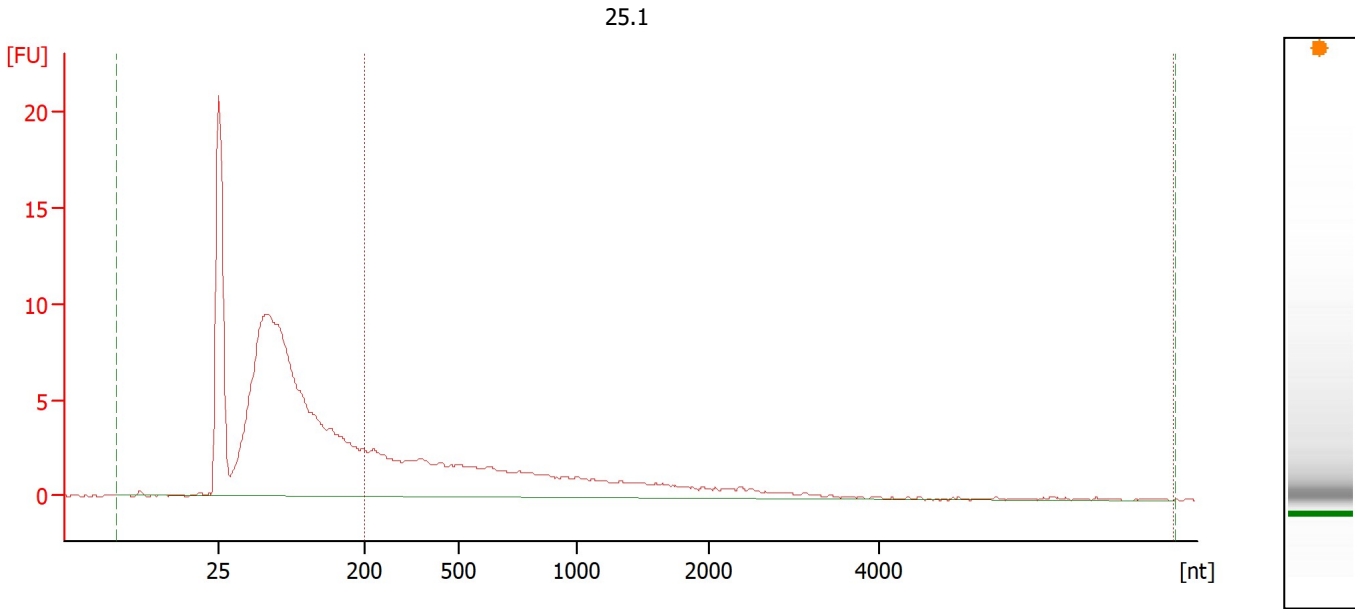
Overall Results for Ladder

RNA Area:	366.4	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 25.1

RNA Area:	173.2	Result Flagging Color:	
RNA Concentration:	71 ng/μl	Result Flagging Label:	RIN: 2.50 ; DV200 30-50%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	2.5 (B.02.10)	Corr. Area 1:	60.0

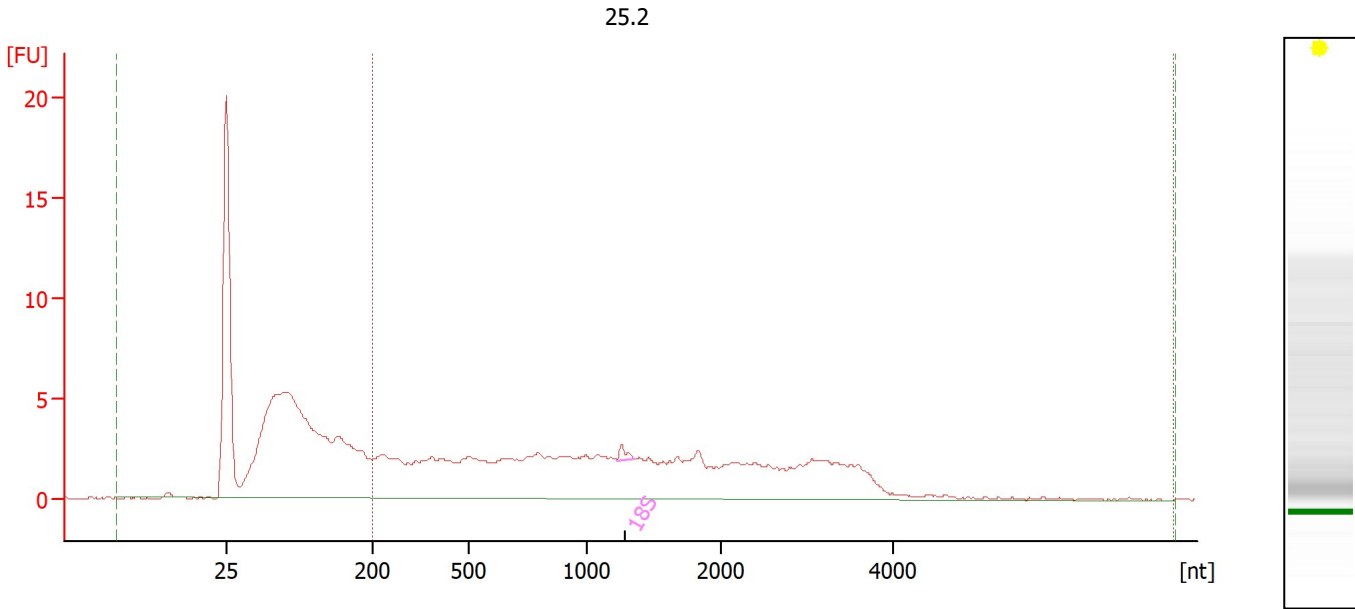
Region table for sample 1 : 25.1

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	7,453	60.0	35	

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 25.2

RNA Area:	182.2	Result Flagging Color:	
RNA Concentration:	75 ng/μl	Result Flagging Label:	RIN: 2.20 ; DV200 50-70%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	2.2 (B.02.10)	Corr. Area 1:	109.4

Fragment table for sample 2 : 25.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,219	1,356	0.6	0.3

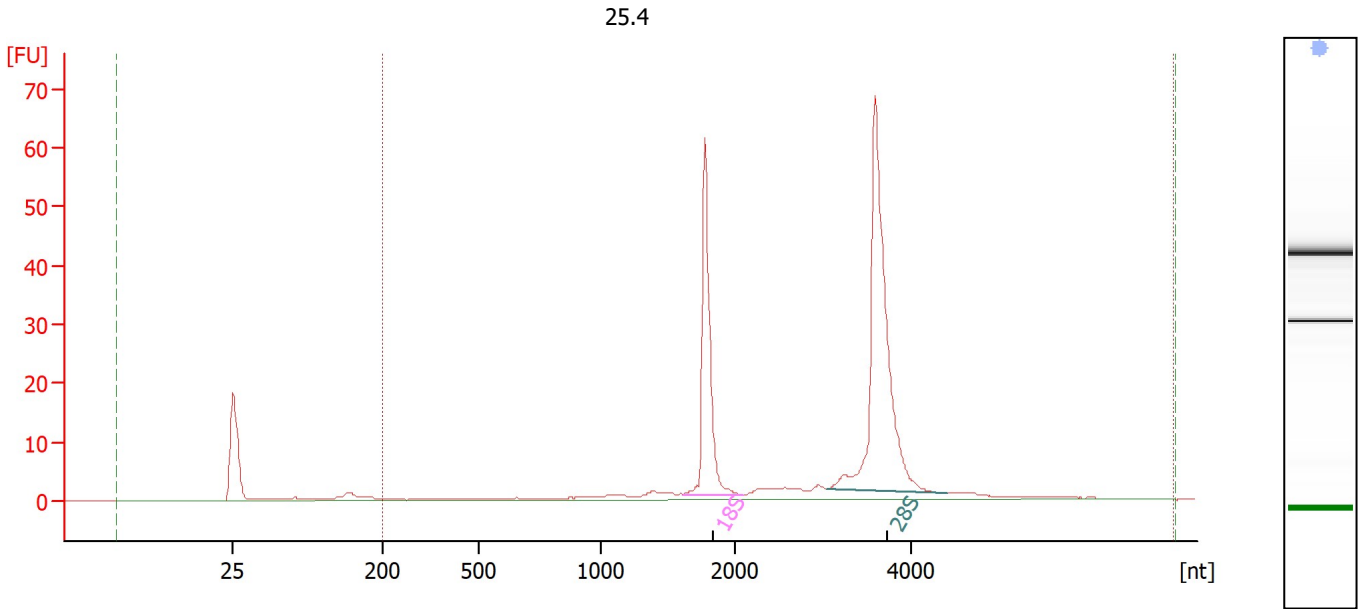
Region table for sample 2 : 25.2

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	7,243	109.4	60	

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 25.4

RNA Area:	222.5	Result Flagging Color:	
RNA Concentration:	91 ng/μl	Result Flagging Label:	RIN:10
rRNA Ratio [28s / 18s]:	2.0	Corr. Area 1:	210.4
RNA Integrity Number (RIN):	10 (B.02.10)		

Fragment table for sample 3 : 25.4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	2,073	51.3	23.1
28S	3,049	4,416	101.2	45.5

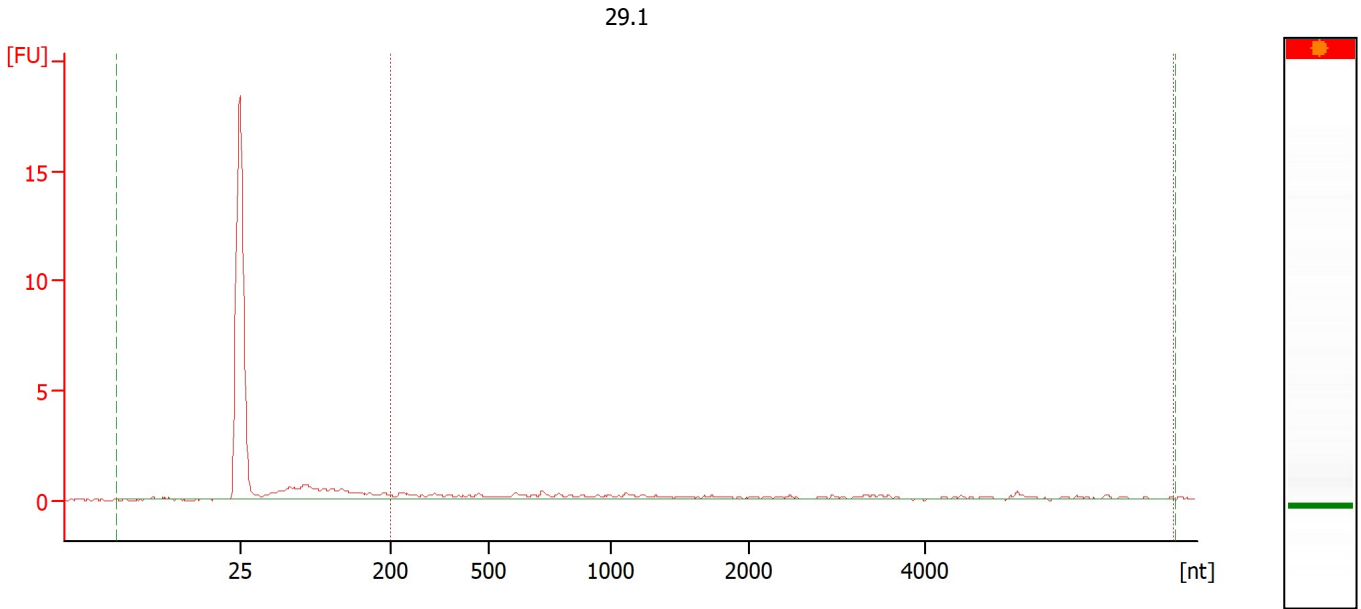
Region table for sample 3 : 25.4

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	7,003	210.4	95	

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 29.1

RNA Area:	14.3	Result Flagging Color:	
RNA Concentration:	6 ng/μl	Result Flagging Label:	RIN: N/A ; DV200 30-50%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	N/A (B.02.10, Anomaly Threshold(s) manually adapted)	Corr. Area 1:	6.9

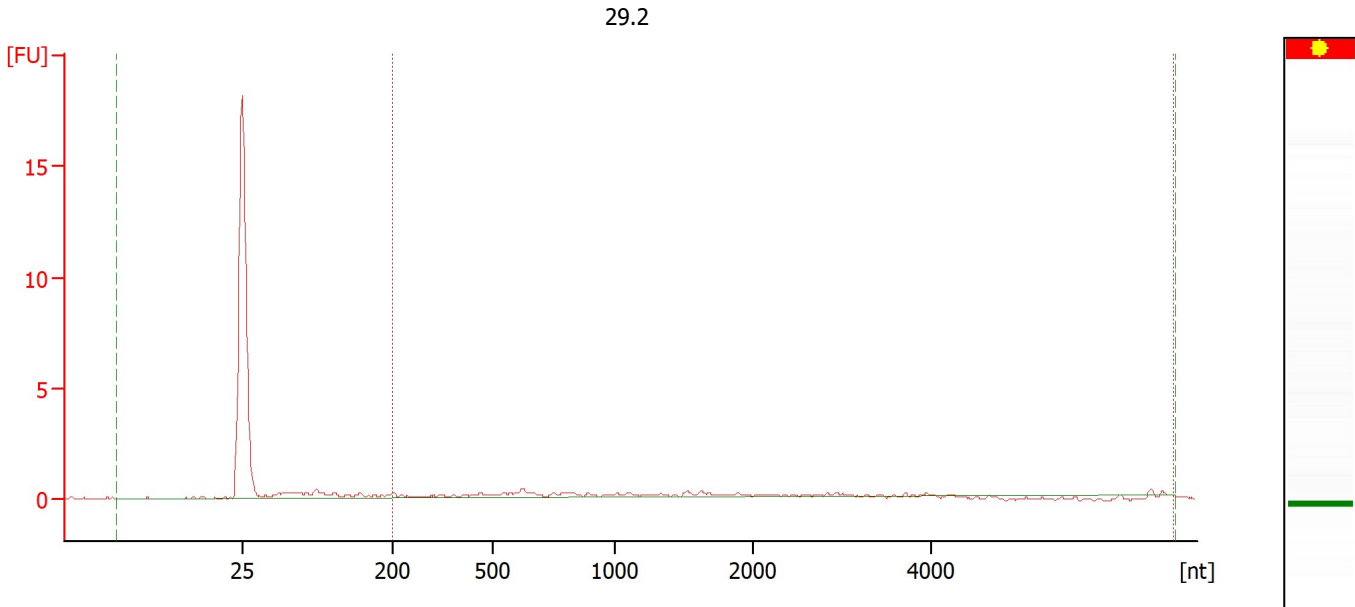
Region table for sample 4 : 29.1

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	6,803	6.9	48	

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 29.2

RNA Area:	10.3	Result Flagging Color:	
RNA Concentration:	4 ng/μl	Result Flagging Label:	RIN: N/A; DV200 50-70%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	N/A (B.02.10)	Corr. Area 1:	6.2

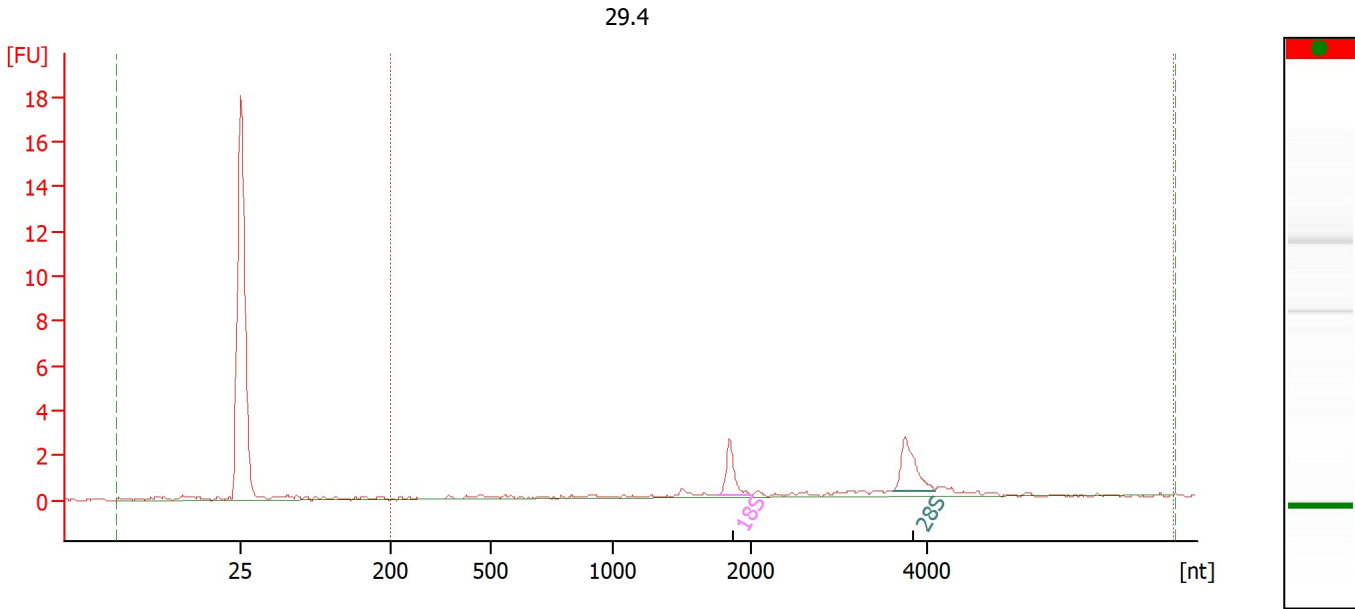
Region table for sample 5 : 29.2

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	6,738	6.2	60	

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 29.4

RNA Area:	14.8	Result Flagging Color:	████████
RNA Concentration:	6 ng/μl	Result Flagging Label:	RIN N/A ; DV200 > 70%
rRNA Ratio [28s / 18s]:	1.4		
RNA Integrity Number (RIN):	N/A (B.02.10)	Corr. Area 1:	11.5

Fragment table for sample 6 : 29.4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,762	2,017	2.3	15.3
28S	3,605	4,075	3.3	22.1

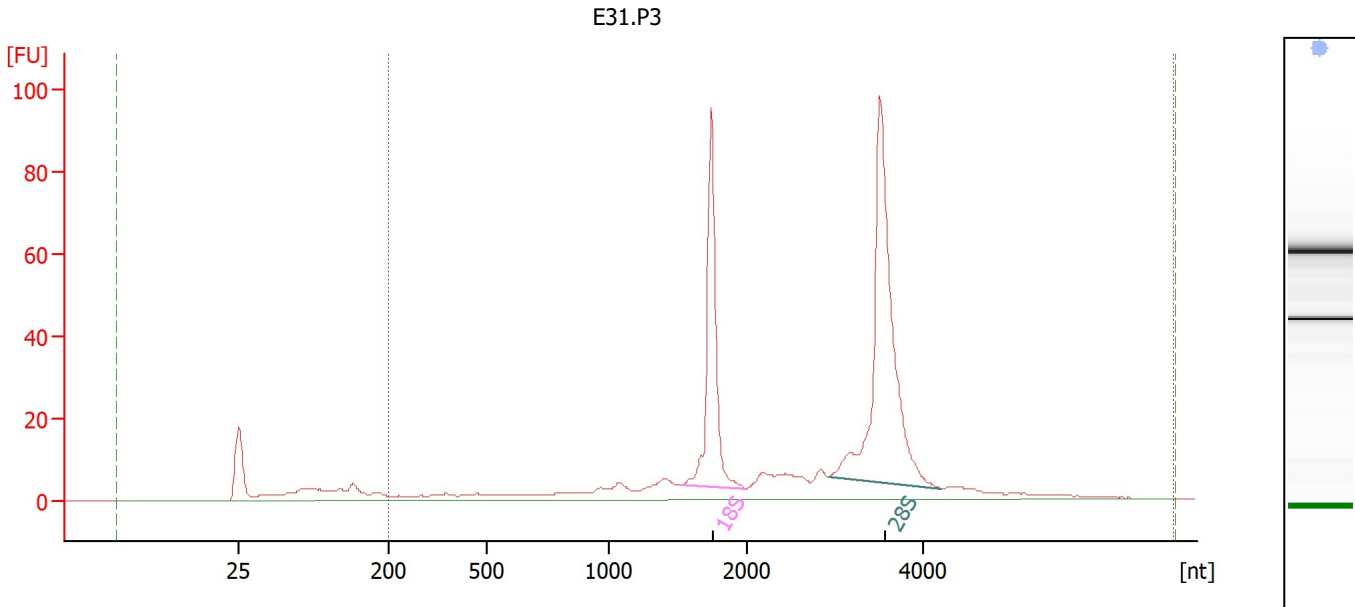
Region table for sample 6 : 29.4

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	6,770	11.5	78	████████

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : E31.P3

RNA Area:	484.4	Result Flagging Color:	
RNA Concentration:	198 ng/μl	Result Flagging Label:	RIN: 9.20
rRNA Ratio [28s / 18s]:	1.8	Corr. Area 1:	437.1
RNA Integrity Number (RIN):	9.2 (B.02.10, Anomaly Threshold(s) manually adapted)		

Fragment table for sample 7 : E31.P3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,517	2,004	88.1	18.2
28S	2,934	4,214	162.9	33.6

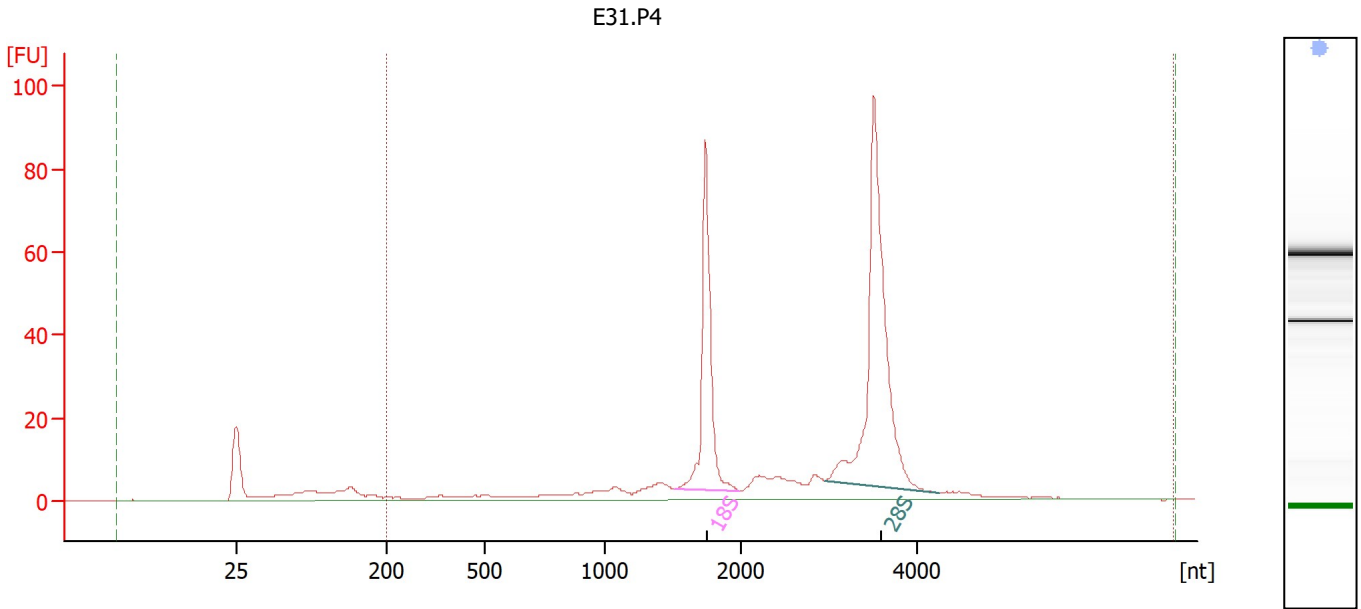
Region table for sample 7 : E31.P3

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	6,836	437.1	90	

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : E31.P4

RNA Area:	407.8	Result Flagging Color:	
RNA Concentration:	167 ng/μl	Result Flagging Label:	RIN: 9.40
rRNA Ratio [28s / 18s]:	1.9	Corr. Area 1:	371.3
RNA Integrity Number (RIN):	9.4 (B.02.10, Anomaly Threshold(s) manually adapted)		

Fragment table for sample 8 : E31.P4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,514	1,986	78.8	19.3
28S	2,948	4,246	150.3	36.8

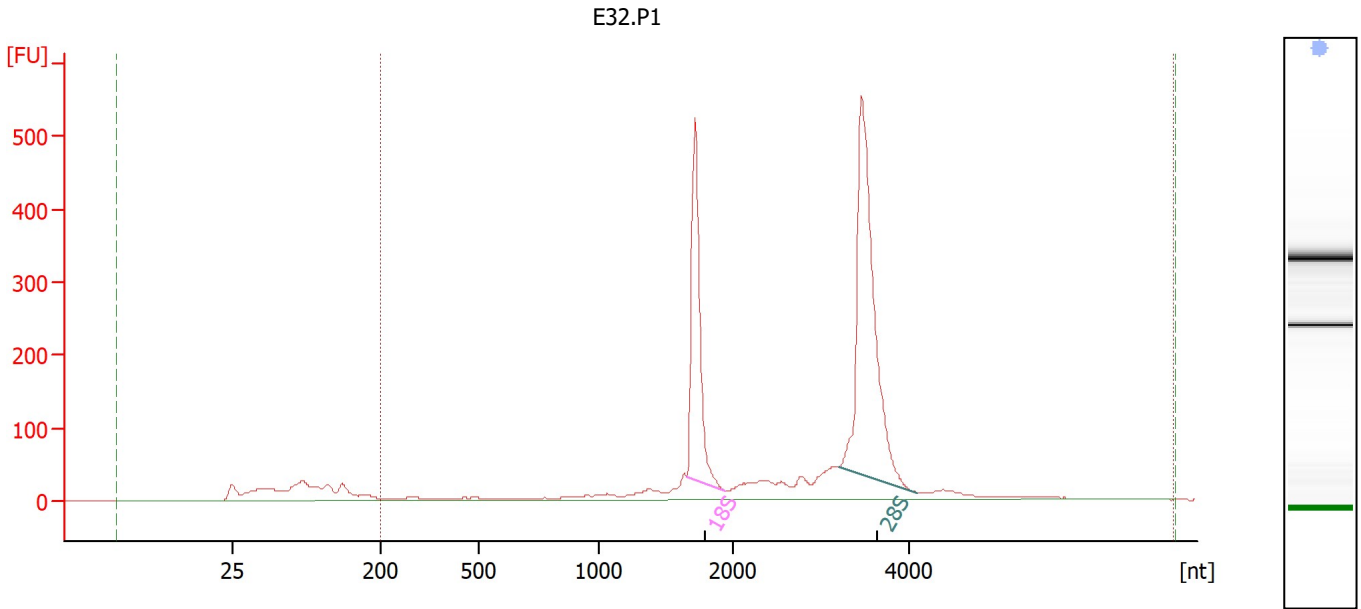
Region table for sample 8 : E31.P4

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	6,903	371.3	91	

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : E32.P1

RNA Area:	2,511.1	Result Flagging Color:	
RNA Concentration:	1,028 ng/μl	Result Flagging Label:	RIN: 9.40
rRNA Ratio [28s / 18s]:	1.9	Corr. Area 1:	2,167.0
RNA Integrity Number (RIN):	9.4 (B.02.10)		

Fragment table for sample 9 : E32.P1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	1,936	458.1	18.2
28S	3,198	4,102	852.9	34.0

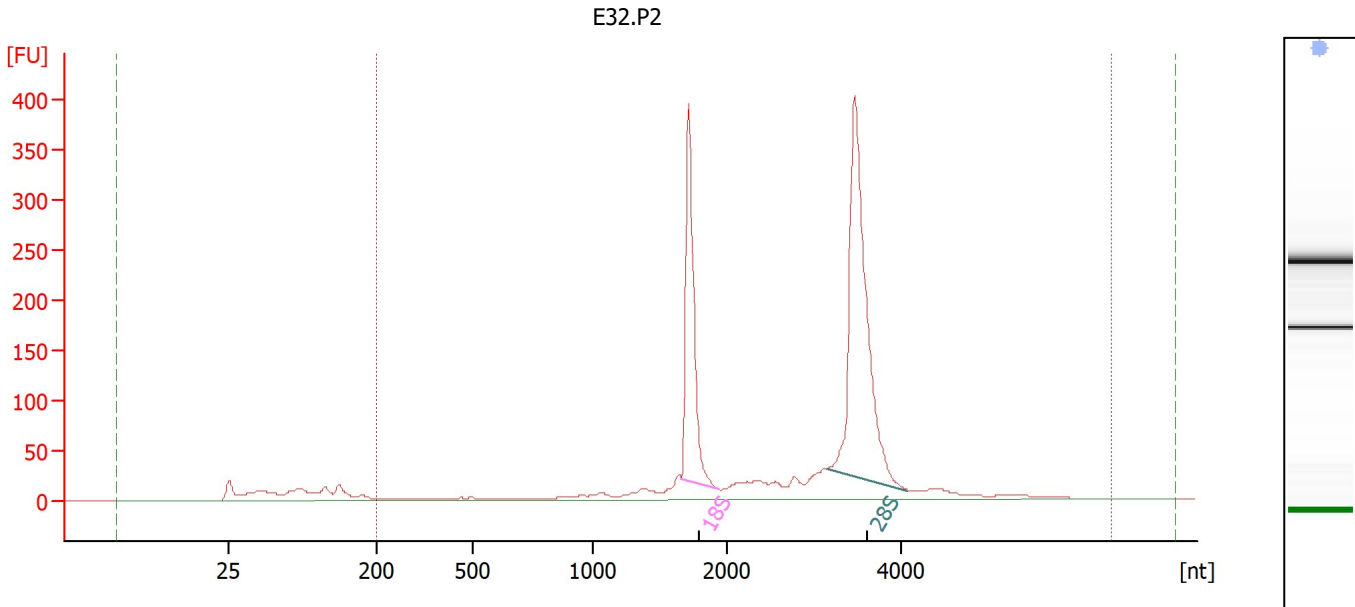
Region table for sample 9 : E32.P1

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	7,037	2,167.0	86	

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : E32.P2

RNA Area:	1,742.9	Result Flagging Color:	
RNA Concentration:	714 ng/μl	Result Flagging Label:	RIN: 9.50
rRNA Ratio [28s / 18s]:	1.8	Corr. Area 1:	1,560.6
RNA Integrity Number (RIN):	9.5 (B.02.10)		

Fragment table for sample 10 : E32.P2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,656	1,934	344.6	19.8
28S	3,153	4,076	614.3	35.2

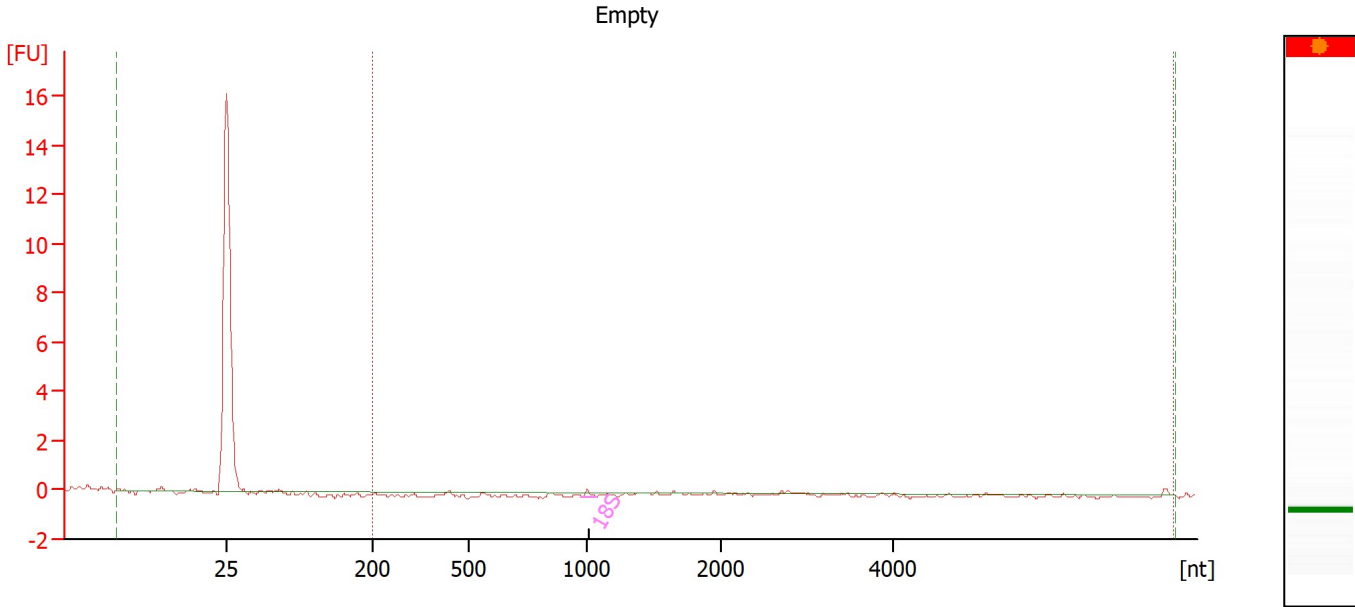
Region table for sample 10 : E32.P2

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	6,417	1,560.6	89	

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Empty

RNA Area:	0.5	Result Flagging Color:	
RNA Concentration:	0 ng/μl	Result Flagging Label:	RIN: N/A ; DV200 30-50%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	N/A (B.02.10)	Corr. Area 1:	0.2

Fragment table for sample 11 : Empty

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	975	1,067	0.2	38.2

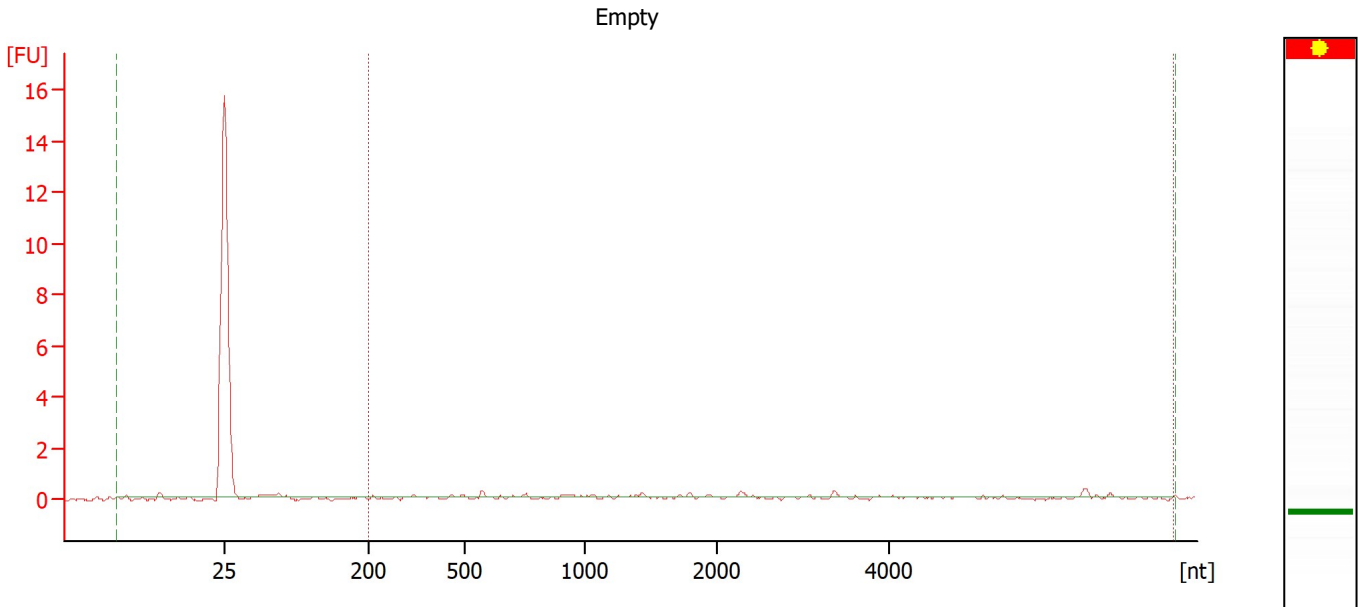
Region table for sample 11 : Empty

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	7,243	0.2	37	

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Empty

RNA Area:	1.9	Result Flagging Color:	
RNA Concentration:	1 ng/μl	Result Flagging Label:	RIN: N/A; DV200 50-70%
rRNA Ratio [28s / 18s]:	0.0		
RNA Integrity Number (RIN):	N/A (B.02.10)	Corr. Area 1:	1.2

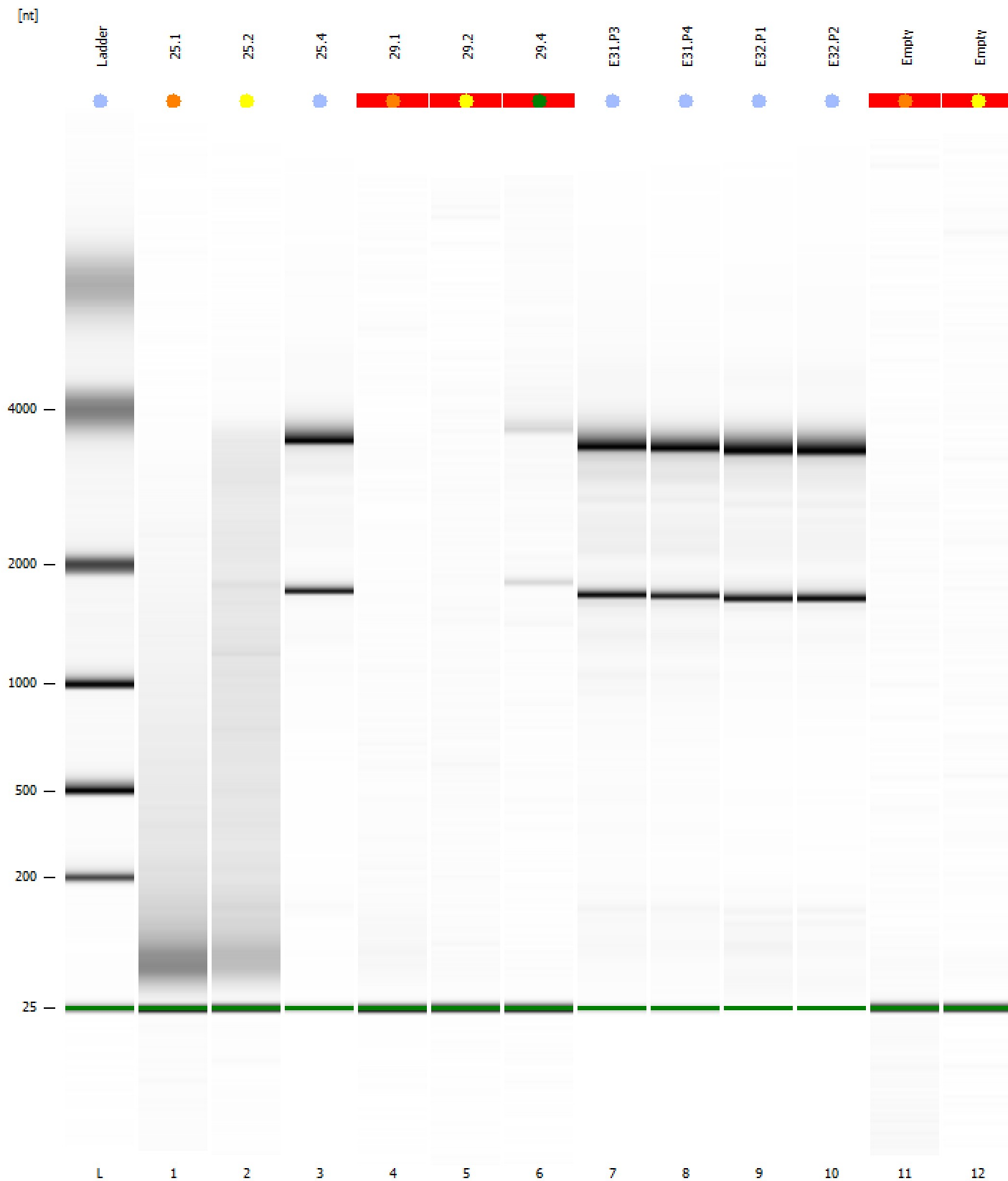
Region table for sample 12 : Empty

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
DV200	200	7,312	1.2	67	

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad

Created: 3/16/2020 2:38:43 PM
 Modified: 3/16/2020 3:02:33 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 3/16/2020 2:38:43 PM
 Data Path: Z:\...16\Bioanalyzer1_Eukaryote Total RNA Nano_2020-03-16_003.xad Modified: 3/16/2020 3:02:33 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		3/16/2020 3:02:32 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-03-16\Bioanalyze r1_Eukaryote Total RNA Nano_2020-03-16_003.xad)		Instrument	Run		3/16/2020 2:38:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		3/16/2020 2:38:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		3/16/2020 2:38:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		3/16/2020 2:38:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		3/16/2020 2:38:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		3/16/2020 2:38:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		3/16/2020 2:38:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB