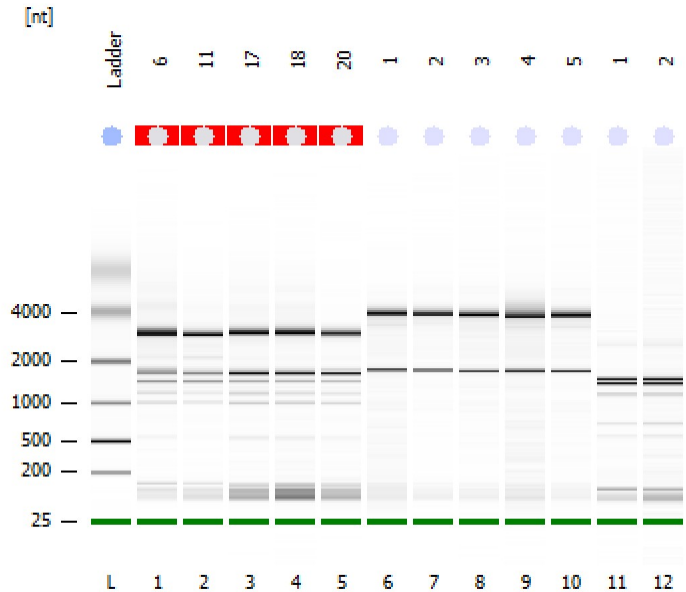


Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
Modified: 8/28/2020 10:03:57 AM

Electrophoresis File Run Summary



Instrument Information:

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

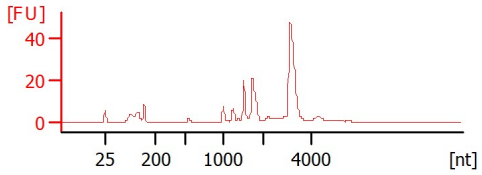
Assay Information:
 Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy
 Assay Class: Eukaryote Total RNA Nano
 Version: 2.6
 Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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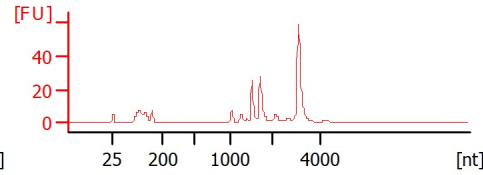
Chip Information:

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

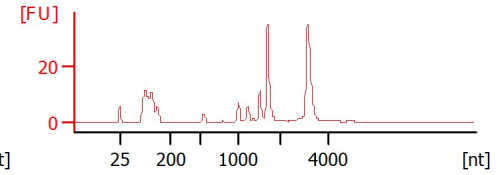
6
NovaSeq250 DNaseClean RNA
RIN N/A



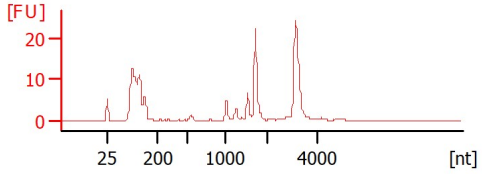
11
NovaSeq250 DNaseClean RNA
RIN N/A



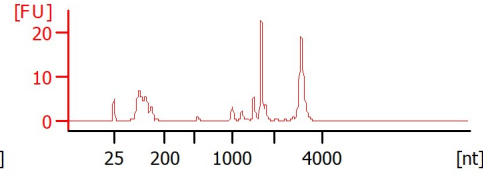
17
NovaSeq230 DNase Clean
RIN N/A



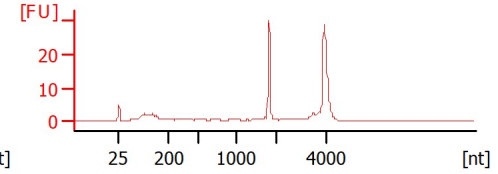
18
NovaSeq230 DNase Clean
RIN N/A



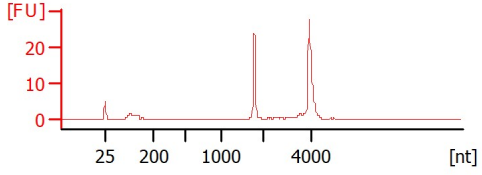
20
NovaSeq230 DNase Clean
RIN N/A



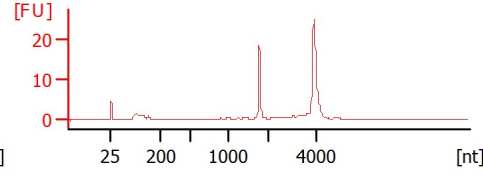
1
QC0645
RIN: 8.50



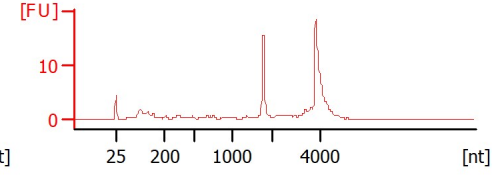
2
QC0645
RIN: 9.90



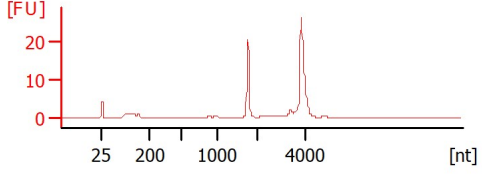
3
QC0645
RIN: 9.60



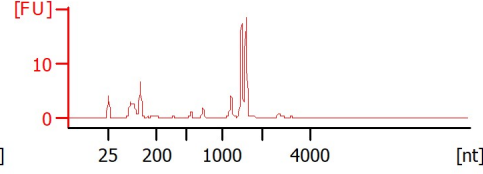
4
QC0645
RIN: 8.70



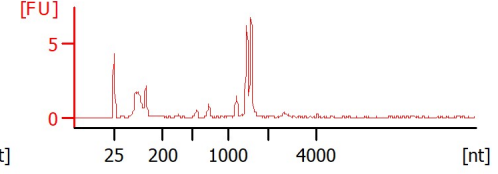
5
QC0645
RIN: 9.50



1
QC0643
RIN: 6



2
QC0643
RIN: 5.90



Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
6	NovaSeq250 DNaseClean RNA	✓	RIN N/A	
11	NovaSeq250 DNaseClean RNA	✓	RIN N/A	
17	NovaSeq230 DNase Clean	✓	RIN N/A	
18	NovaSeq230 DNase Clean	✓	RIN N/A	
20	NovaSeq230 DNase Clean	✓	RIN N/A	
1	QC0645	✓	RIN: 8.50	
2	QC0645	✓	RIN: 9.90	
3	QC0645	✓	RIN: 9.60	
4	QC0645	✓	RIN: 8.70	
5	QC0645	✓	RIN: 9.50	
1	QC0643	✓	RIN:6	
2	QC0643	✓	RIN: 5.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 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

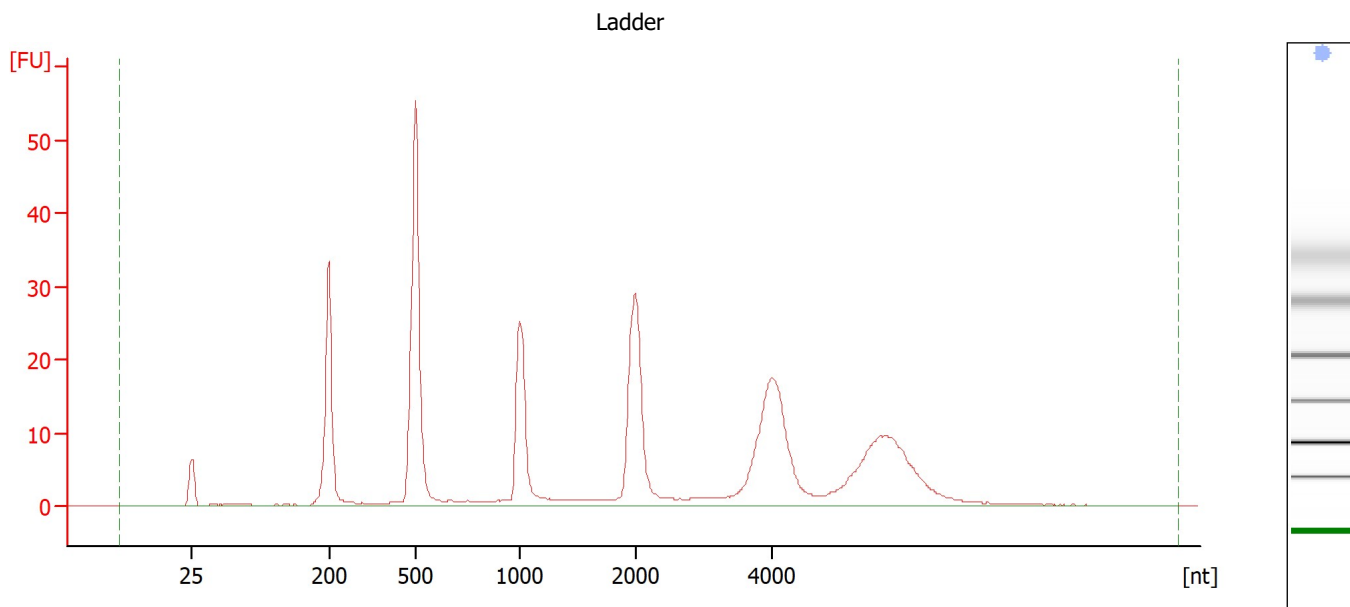
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary



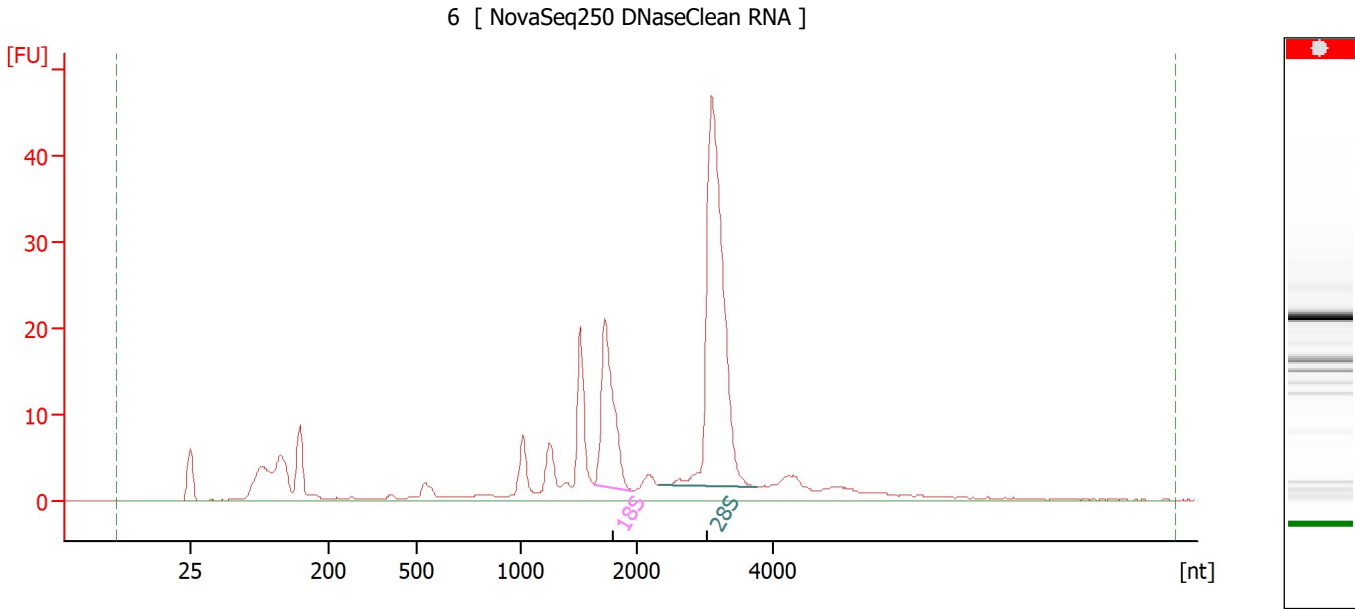
Overall Results for Ladder

RNA Area:	337.6	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 6

RNA Area:	255.4	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	113 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.8	Result Flagging Label:	RIN N/A

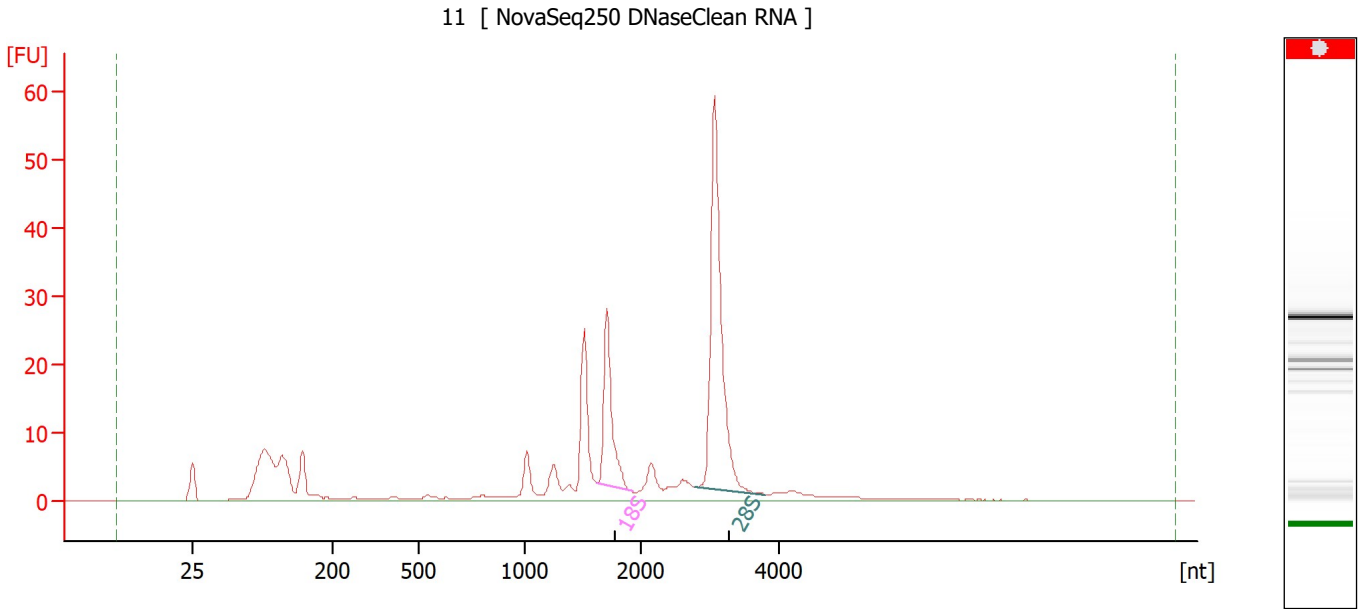
Fragment table for sample 1 : 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	1,955	29.8	11.7
28S	2,345	3,745	82.9	32.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 11

RNA Area:	244.3	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	109 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN N/A

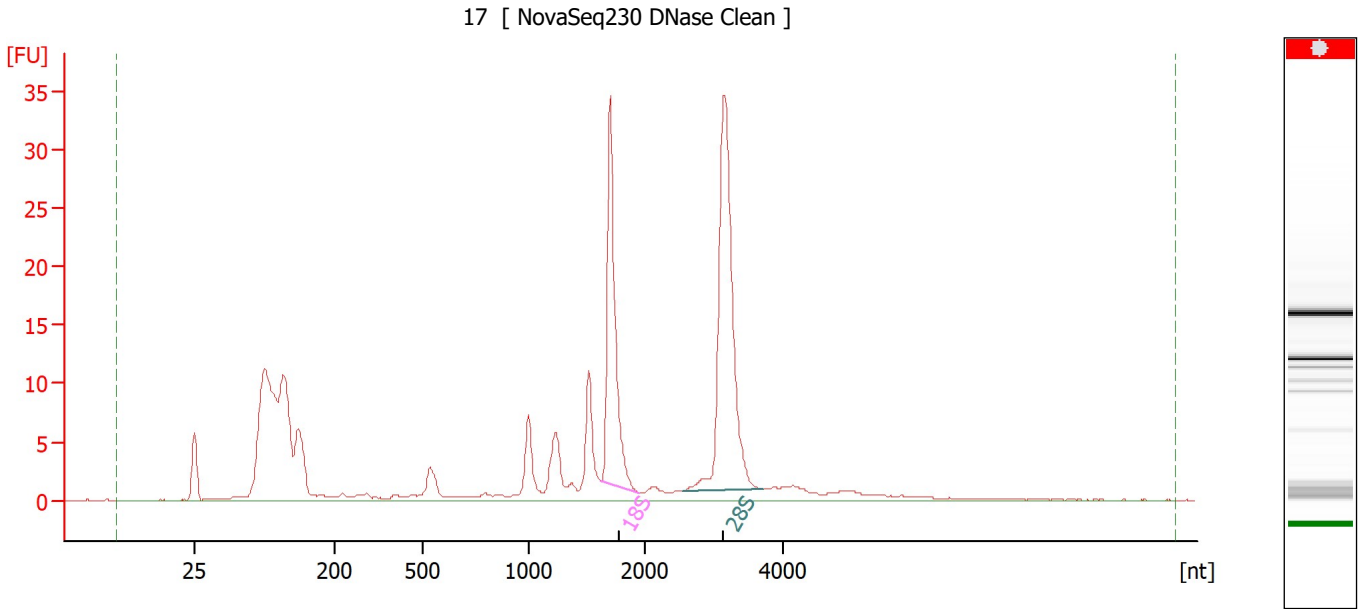
Fragment table for sample 2 : 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,632	1,929	27.3	11.2
28S	2,795	3,802	68.7	28.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 17

RNA Area:	226.3	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	101 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN N/A

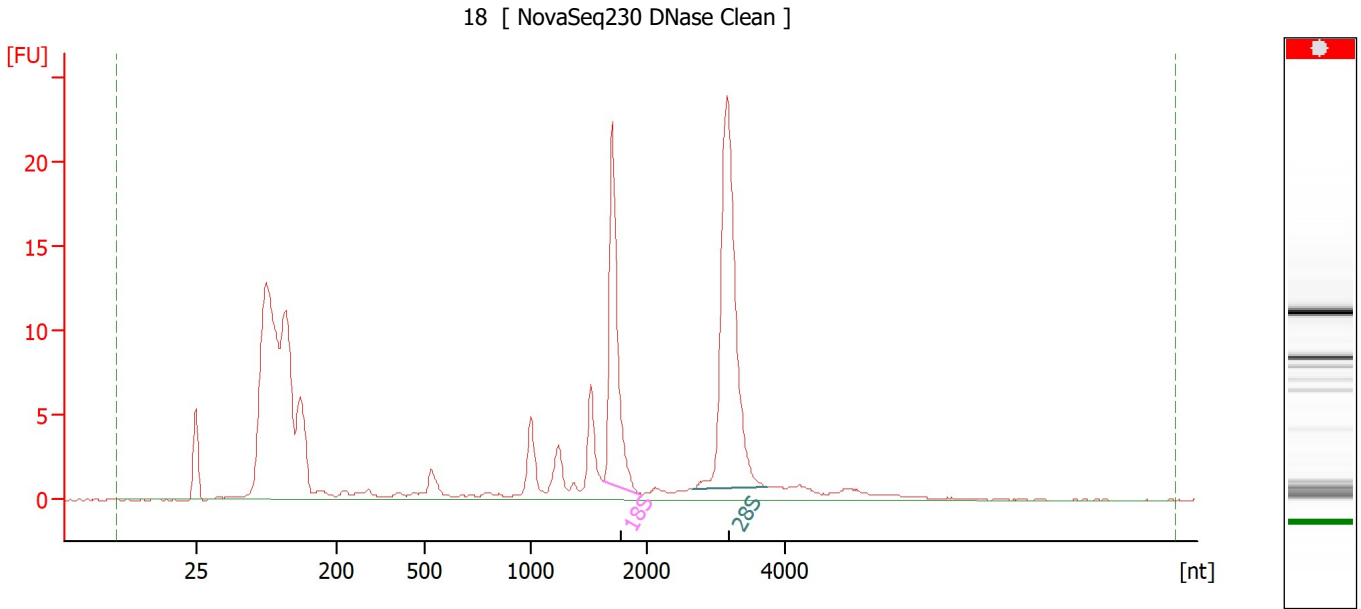
Fragment table for sample 3 : 17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,626	1,949	32.3	14.3
28S	2,563	3,704	51.4	22.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 18

RNA Area:	182.1	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	81 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN N/A

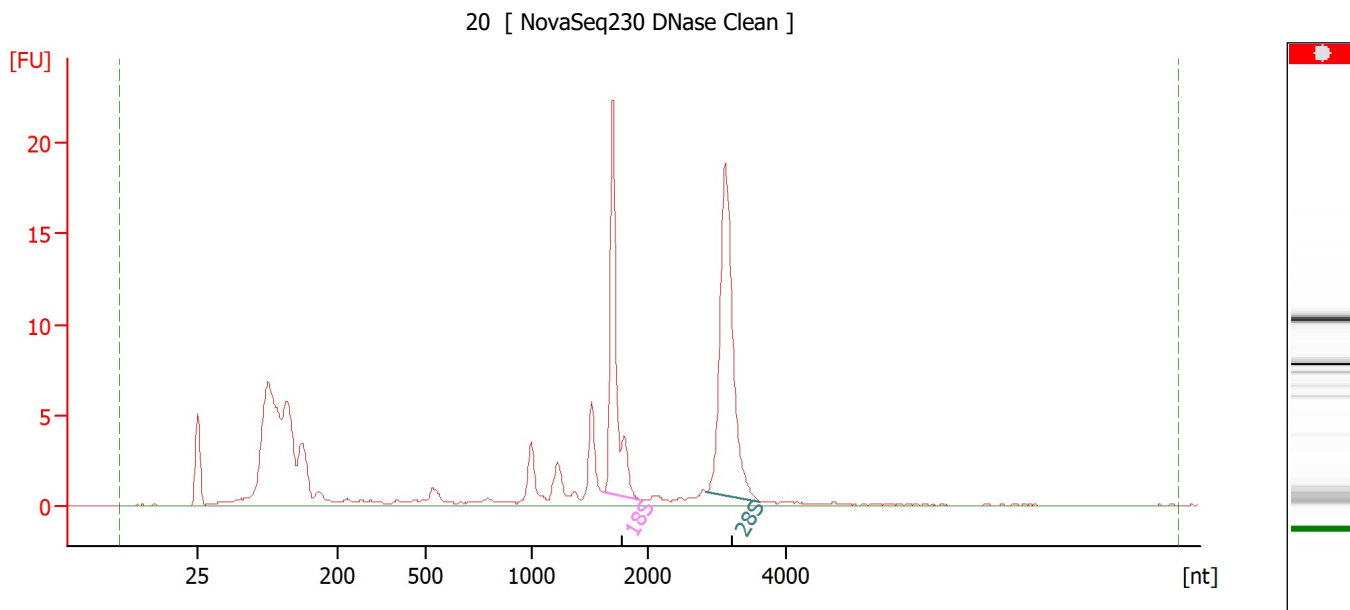
Fragment table for sample 4 : 18

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,959	21.0	11.5
28S	2,671	3,733	37.4	20.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 20

RNA Area:	118.7	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	53 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN N/A

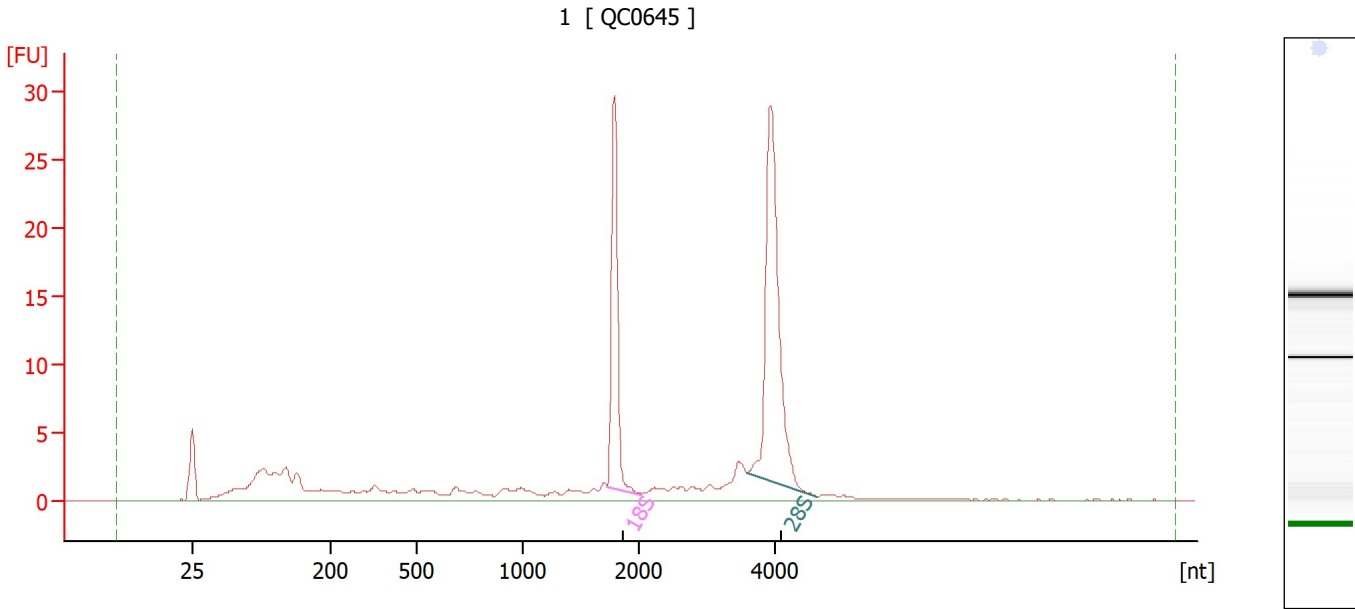
Fragment table for sample 5 : 20

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,626	1,931	18.6	15.7
28S	2,856	3,627	26.5	22.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 1

RNA Area:	131.9	RNA Integrity Number (RIN):	8.5 (B.02.10)
RNA Concentration:	59 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 8.50

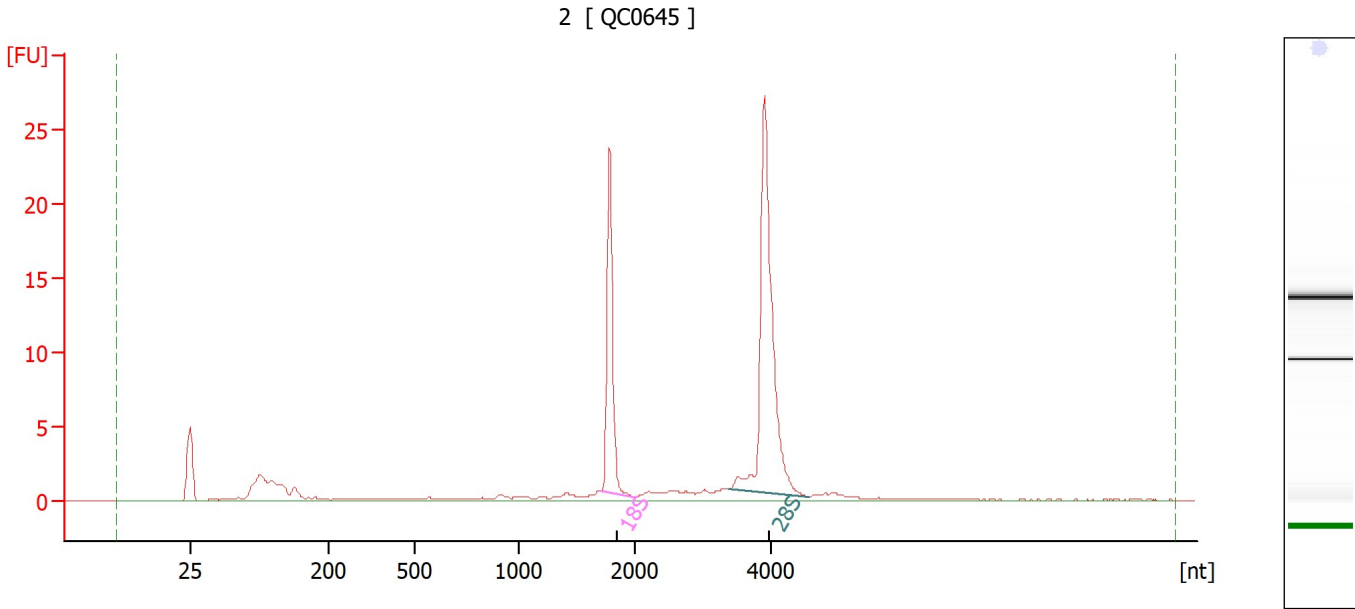
Fragment table for sample 6 : 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,733	2,050	20.2	15.3
28S	3,587	4,596	37.6	28.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 2

RNA Area:	85.5	RNA Integrity Number (RIN):	9.9 (B.02.10)
RNA Concentration:	38 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.90

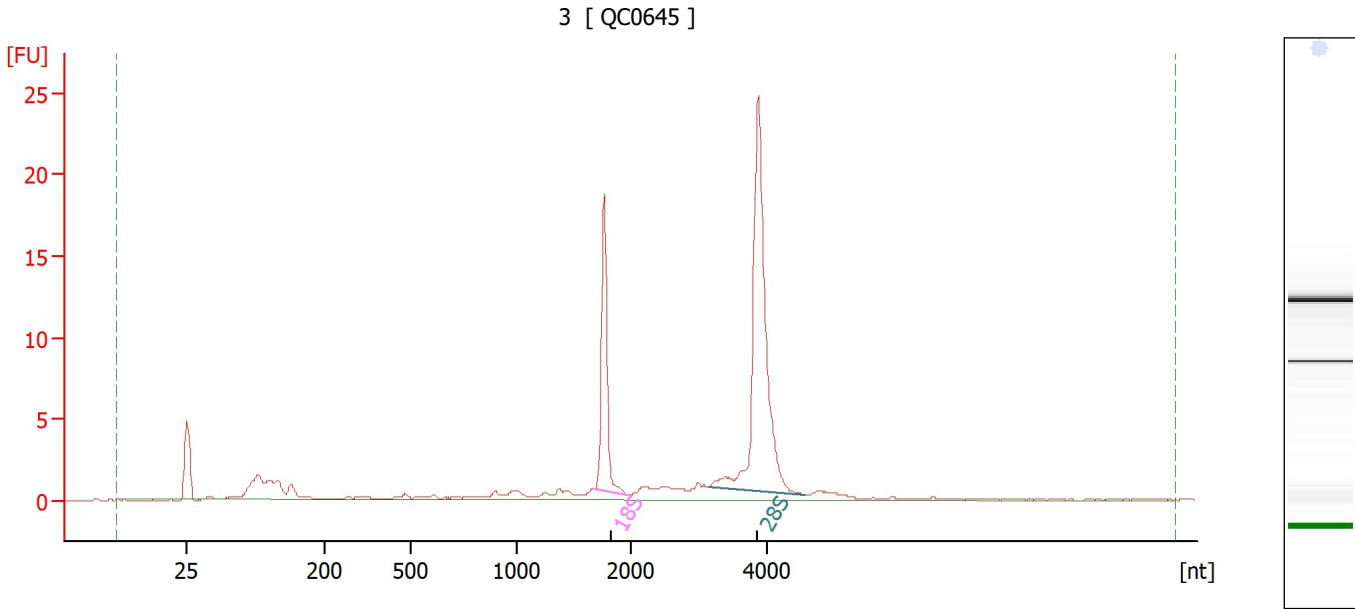
Fragment table for sample 7 : 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,711	1,991	17.0	19.9
28S	3,373	4,542	34.4	40.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 3

RNA Area:	80.4	RNA Integrity Number (RIN):	9.6 (B.02.10)
RNA Concentration:	36 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN: 9.60

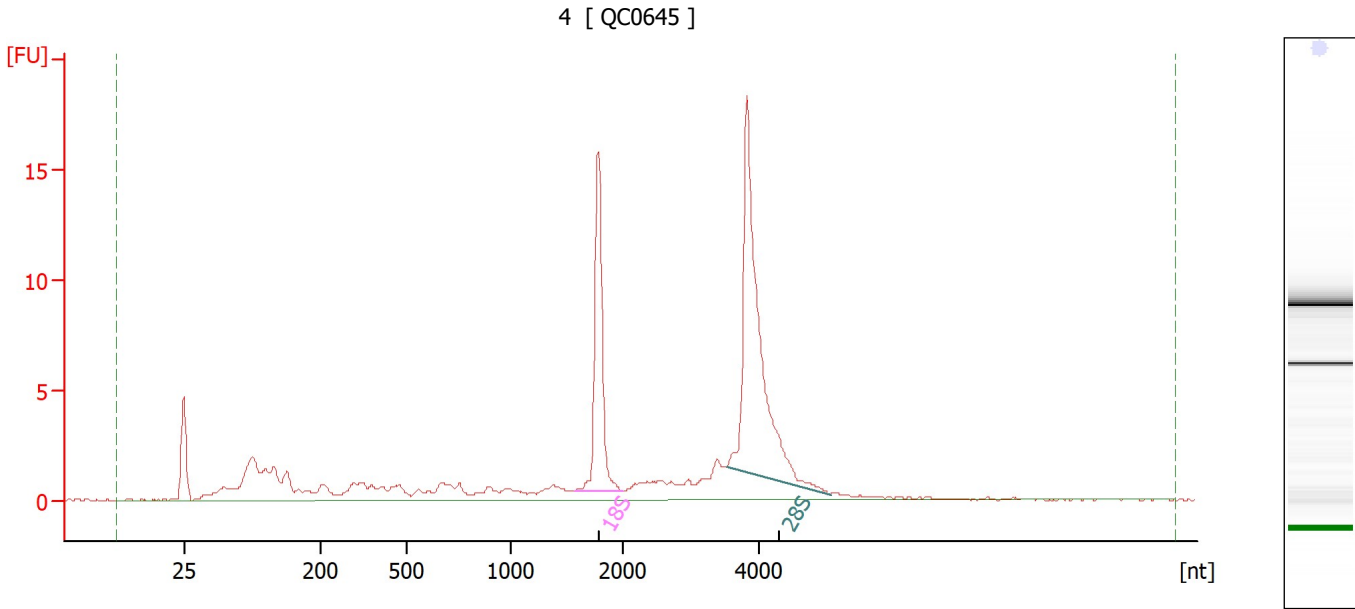
Fragment table for sample 8 : 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,699	1,980	13.6	16.9
28S	3,157	4,551	32.9	40.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 4

RNA Area:	100.3	RNA Integrity Number (RIN):	8.7 (B.02.10)
RNA Concentration:	45 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 8.70

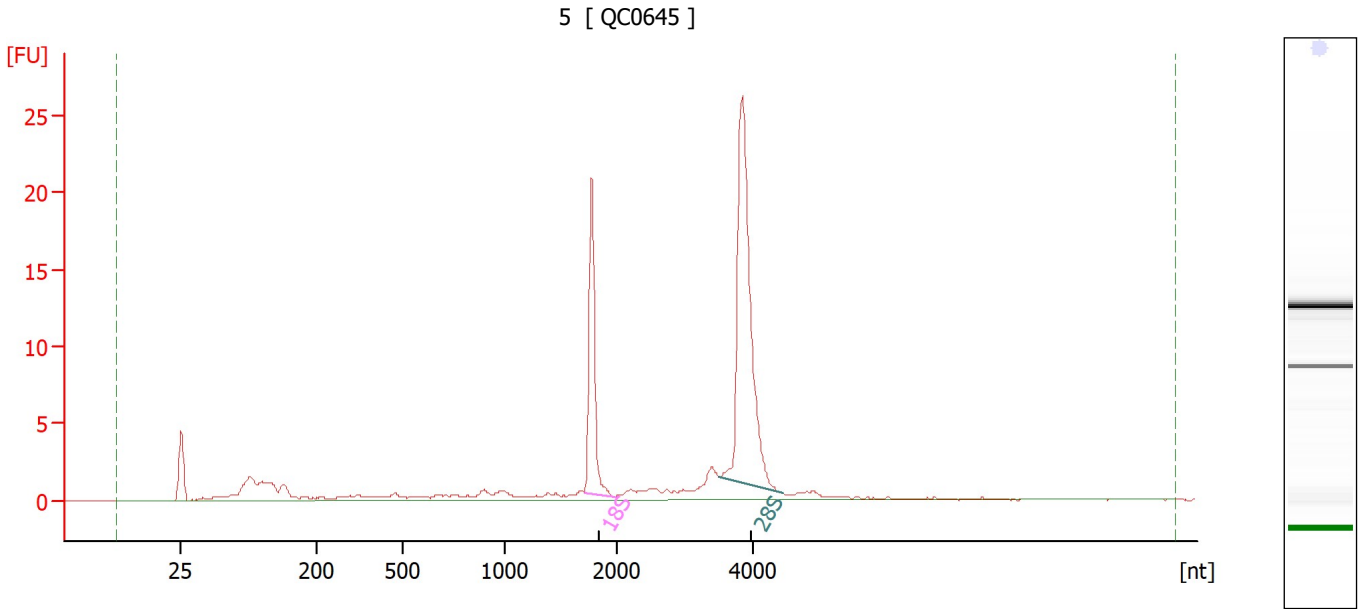
Fragment table for sample 9 : 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,562	1,987	14.3	14.2
28S	3,507	5,052	29.2	29.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 5

RNA Area:	91.1	RNA Integrity Number (RIN):	9.5 (B.02.10)
RNA Concentration:	40 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.50

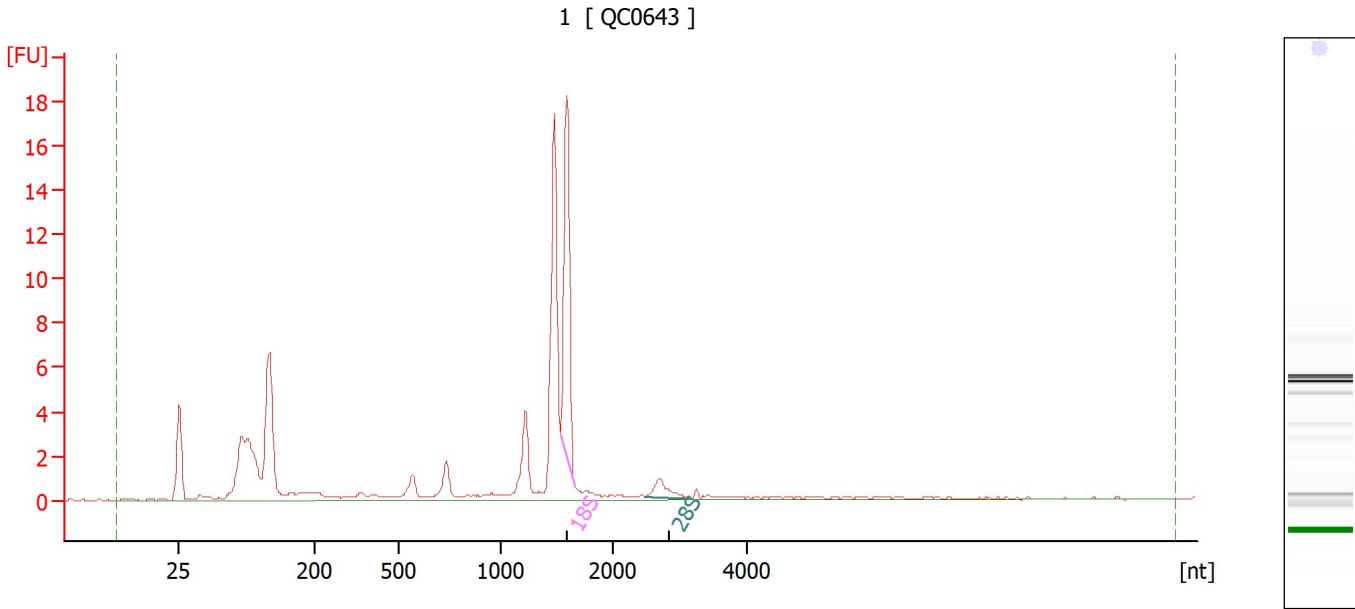
Fragment table for sample 10 : 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,699	1,974	15.9	17.4
28S	3,513	4,449	35.0	38.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 1

RNA Area:	70.9	RNA Integrity Number (RIN):	6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	32 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN:6

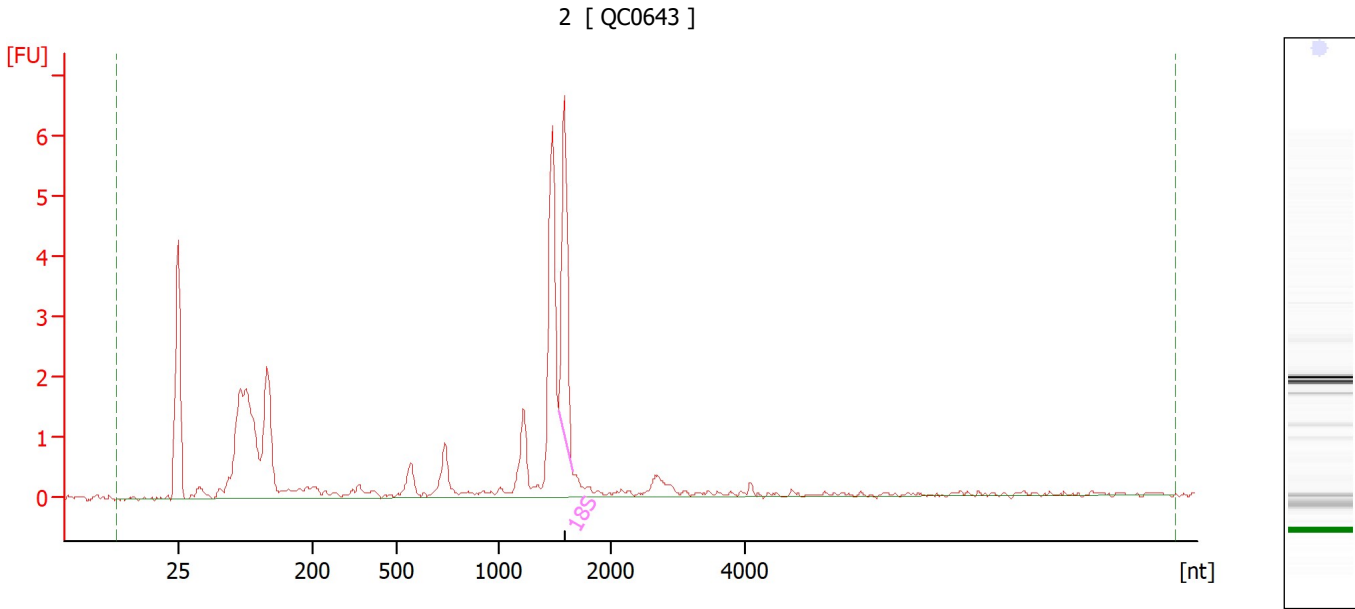
Fragment table for sample 11 : 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,524	1,648	11.1	15.6
28S	2,464	3,182	1.3	1.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 2

RNA Area:	31.3	RNA Integrity Number (RIN):	5.9 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	14 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.90

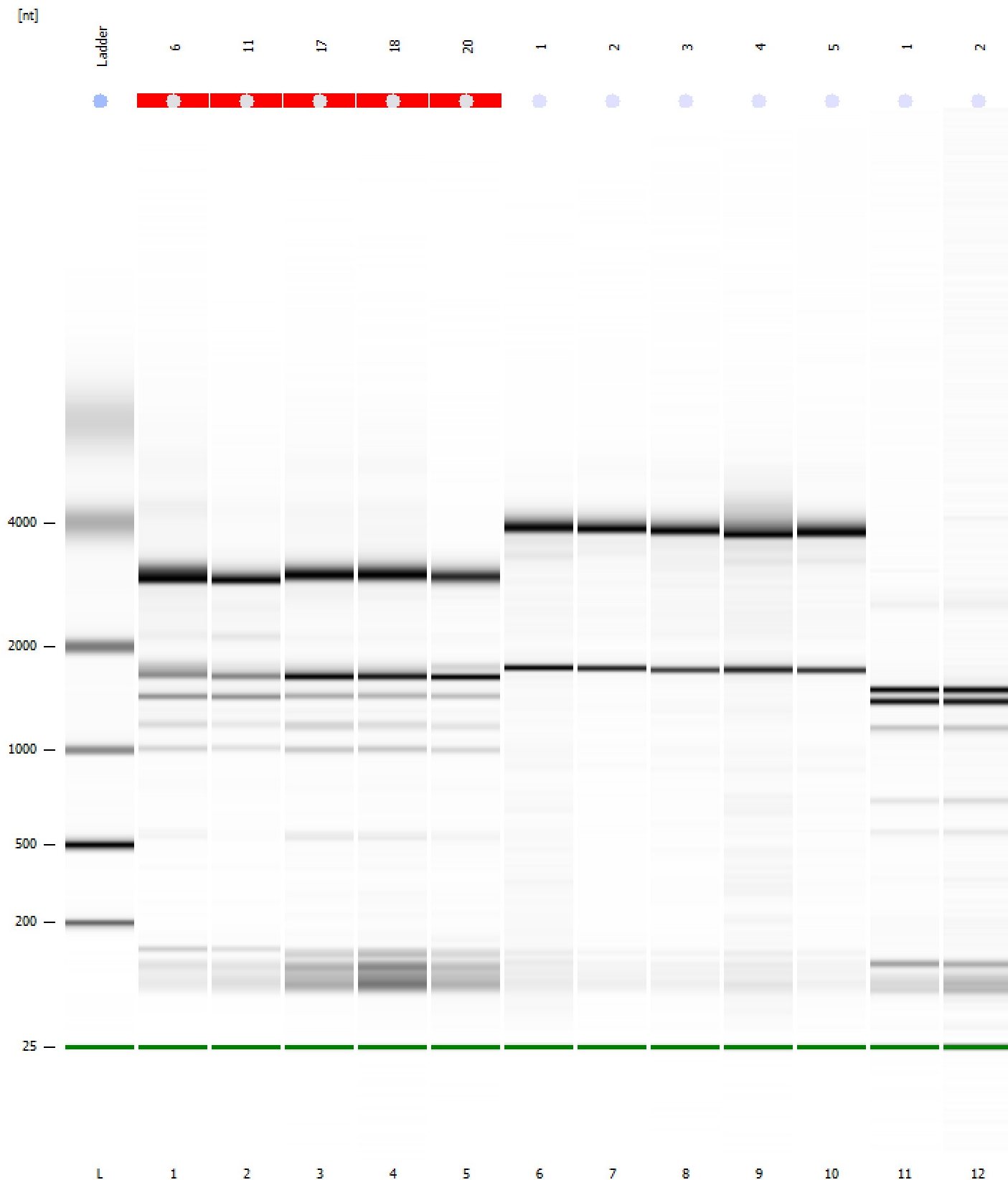
Fragment table for sample 12 : 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,523	1,647	4.0	12.8

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad

Created: 8/27/2020 2:43:53 PM
Modified: 8/28/2020 10:03:57 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...27\Bioanalyzer1_Eukaryote Total RNA Nano_2020-08-27_001.xad
 Created: 8/27/2020 2:43:53 PM
 Modified: 8/28/2020 10:03:57 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		8/27/2020 3:06:55 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-08-27\Bioanalyze r1_Eukaryote Total RNA Nano_2020-08-27_001.xad)		Instrument	Run		8/27/2020 2:43:58 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/27/2020 2:43:58 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/27/2020 2:43:58 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/27/2020 2:43:58 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/27/2020 2:43:58 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/27/2020 2:43:58 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/27/2020 2:43:58 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB