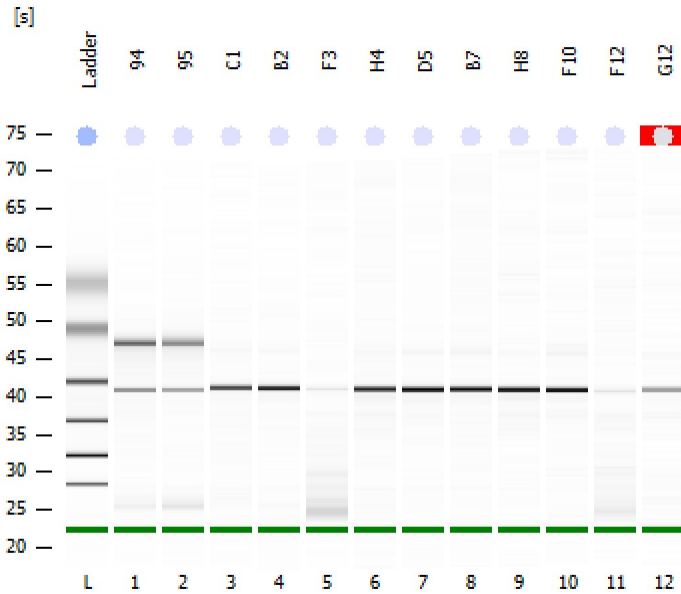


Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
Modified: 7/1/2020 3:44:56 PM

Electrophoresis File Run Summary



Instrument Information:

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

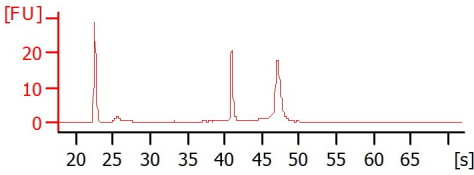
Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\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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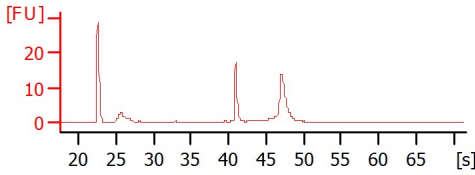
Chip Information:

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

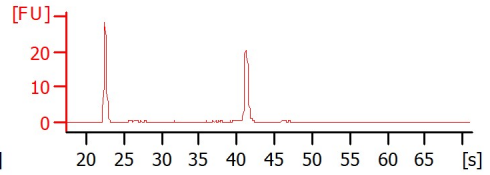
94
NovaSeq217 TotRNA
RIN: 9.60



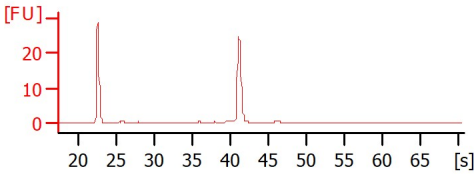
95
NovaSeq217 TotRNA
RIN:10



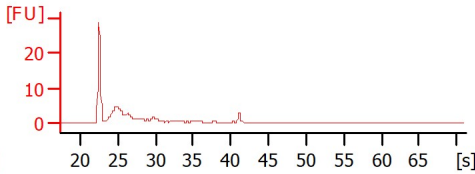
C1
NovaSeq226 #3
RIN: 9.20



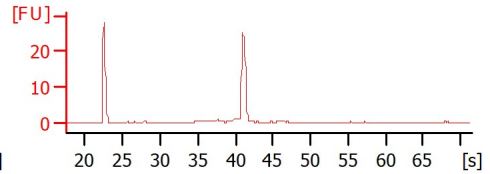
B2
NovaSeq226 #10
RIN: 9.60



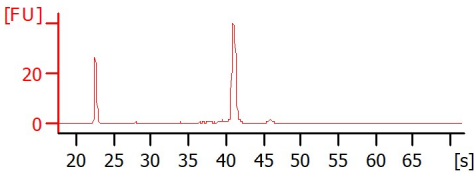
F3
NovaSeq226 #22
RIN:4



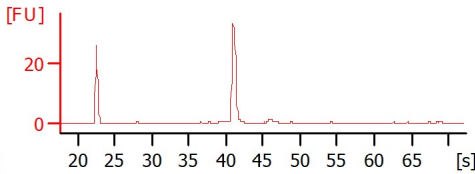
H4
NovaSeq226 #32
RIN: 9.30



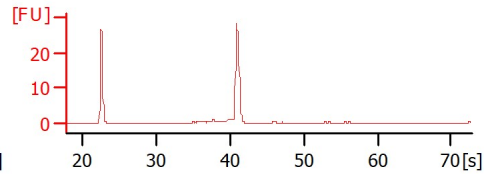
D5
NovaSeq226 #36
RIN: 9.90



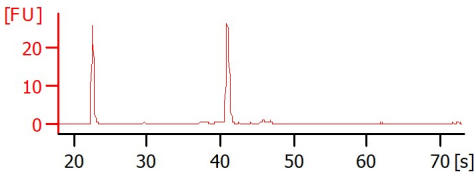
B7
NovaSeq226 #50
RIN: 9.80



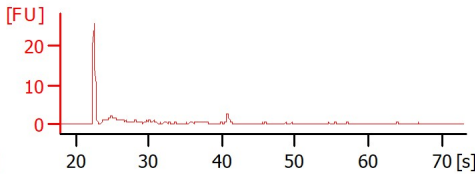
H8
NovaSeq226 #64
RIN:9



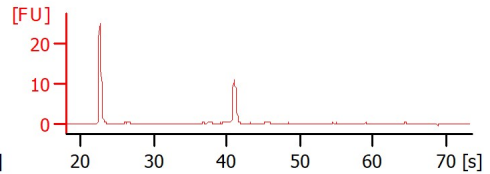
F10
NovaSeq226 #78
RIN: 9.20



F12
NovaSeq226 #94
RIN: 6.60



G12
RIN N/A



Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
94	NovaSeq217 TotRNA	✓	RIN: 9.60	
95	NovaSeq217 TotRNA	✓	RIN:10	
C1	NovaSeq226 #3	✓	RIN: 9.20	
B2	NovaSeq226 #10	✓	RIN: 9.60	
F3	NovaSeq226 #22	✓	RIN:4	
H4	NovaSeq226 #32	✓	RIN: 9.30	
D5	NovaSeq226 #36	✓	RIN: 9.90	
B7	NovaSeq226 #50	✓	RIN: 9.80	
H8	NovaSeq226 #64	✓	RIN:9	
F10	NovaSeq226 #78	✓	RIN: 9.20	
F12	NovaSeq226 #94	✓	RIN: 6.60	
G12		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 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

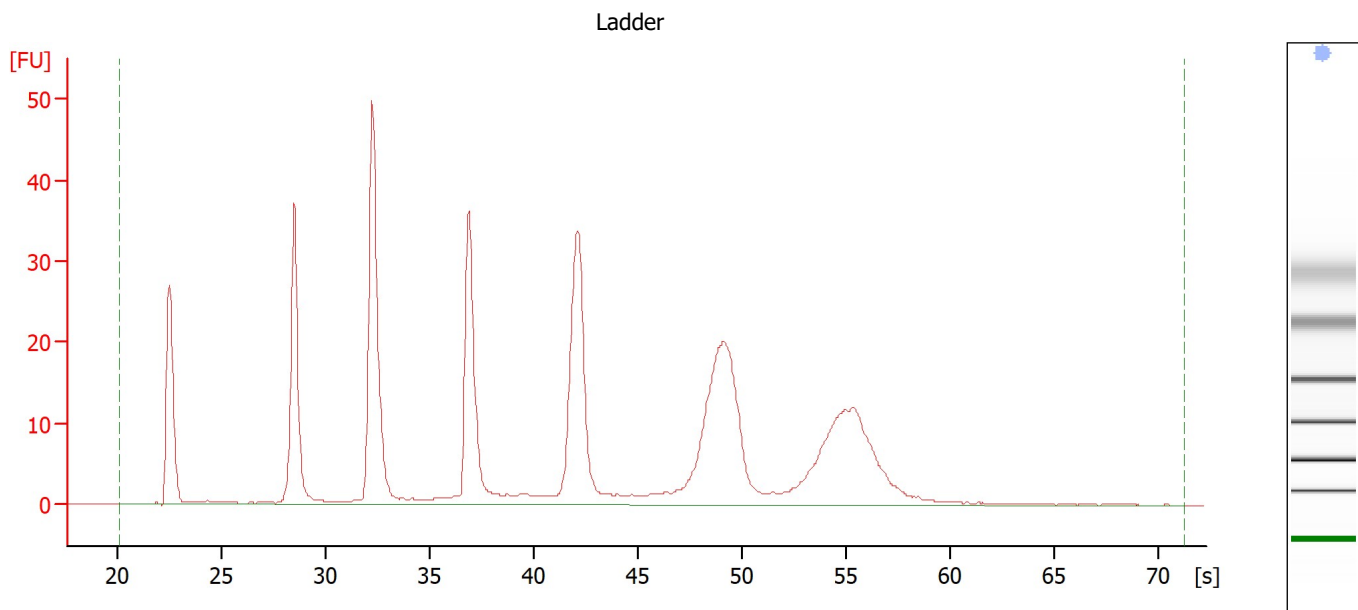
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary



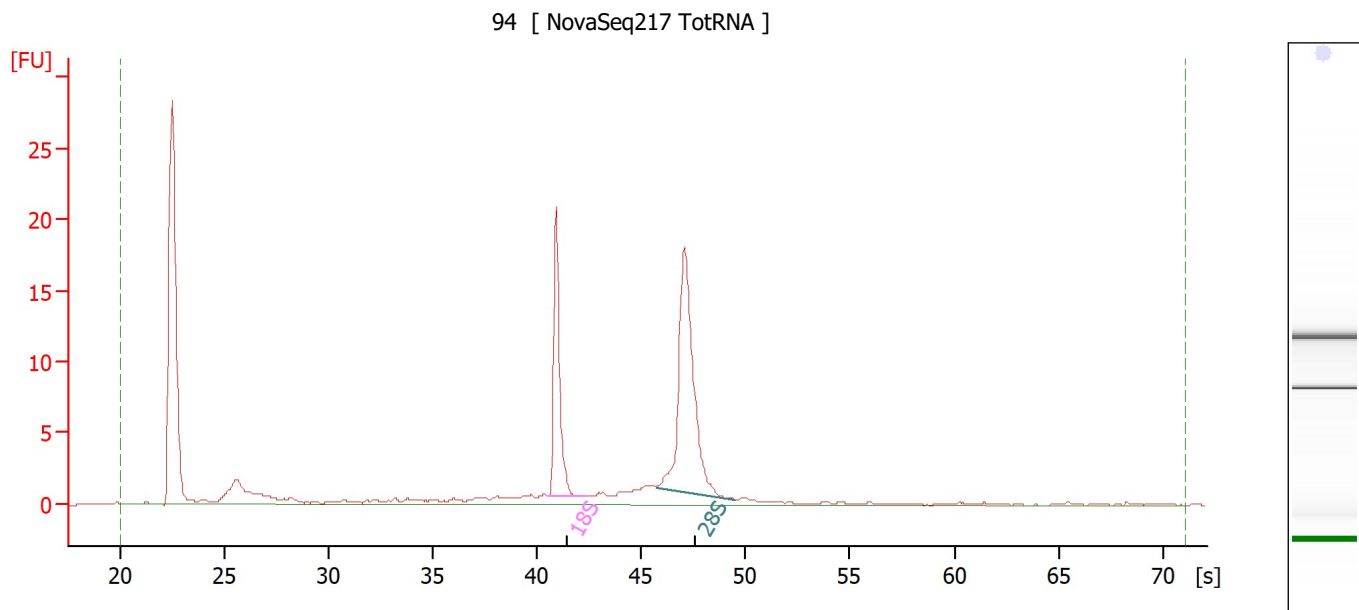
Overall Results for Ladder

RNA Area:	417.6	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 94

RNA Area:	85.3	RNA Integrity Number (RIN):	9.6 (B.02.10)
RNA Concentration:	31 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.60

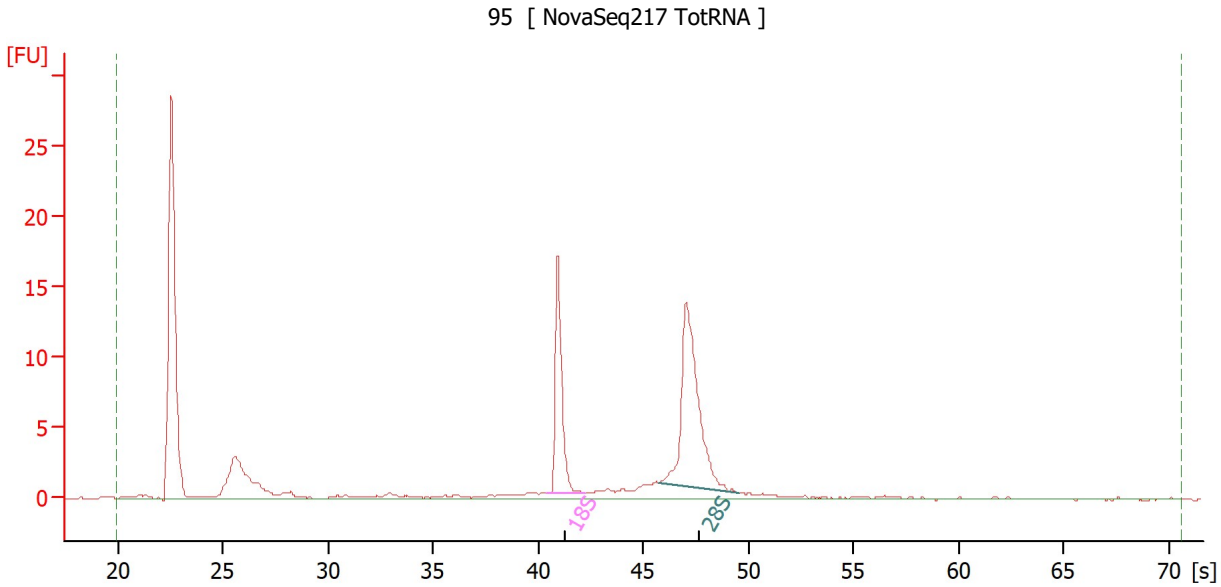
Fragment table for sample 1 : 94

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.57	42.37	16.8	19.6
28S	45.72	49.53	29.1	34.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 95

RNA Area:	78.4	RNA Integrity Number (RIN):	10 (B.02.10)
RNA Concentration:	28 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN:10

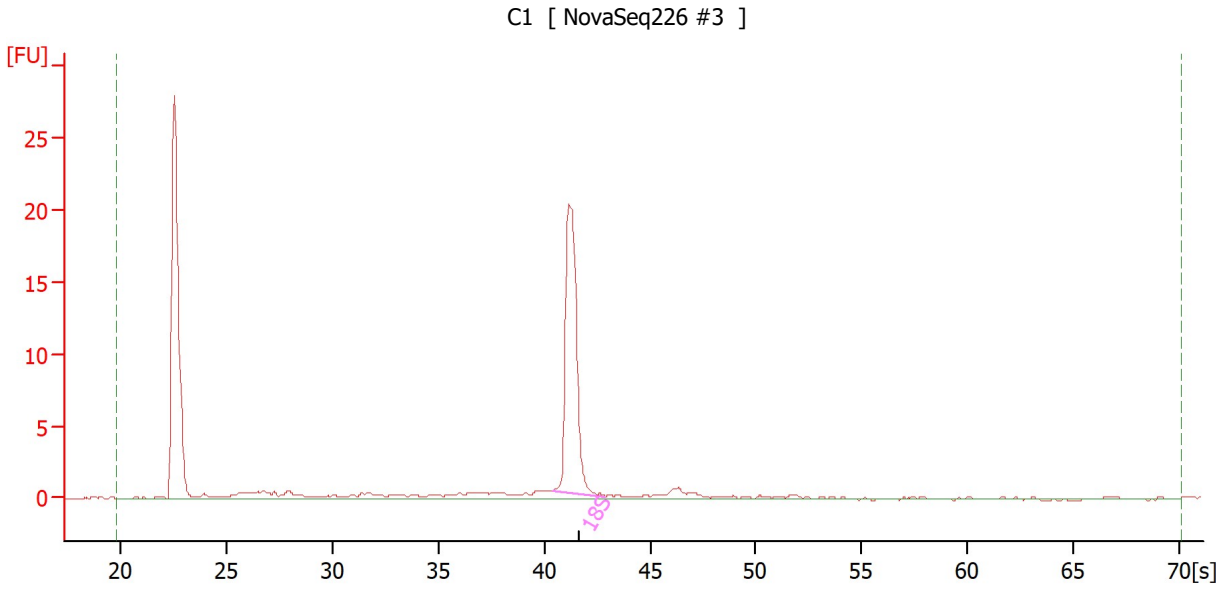
Fragment table for sample 2 : 95

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.35	42.24	14.3	18.3
28S	45.72	49.50	25.8	32.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : C1

RNA Area:	54.5	RNA Integrity Number (RIN):	9.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	20 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 9.20

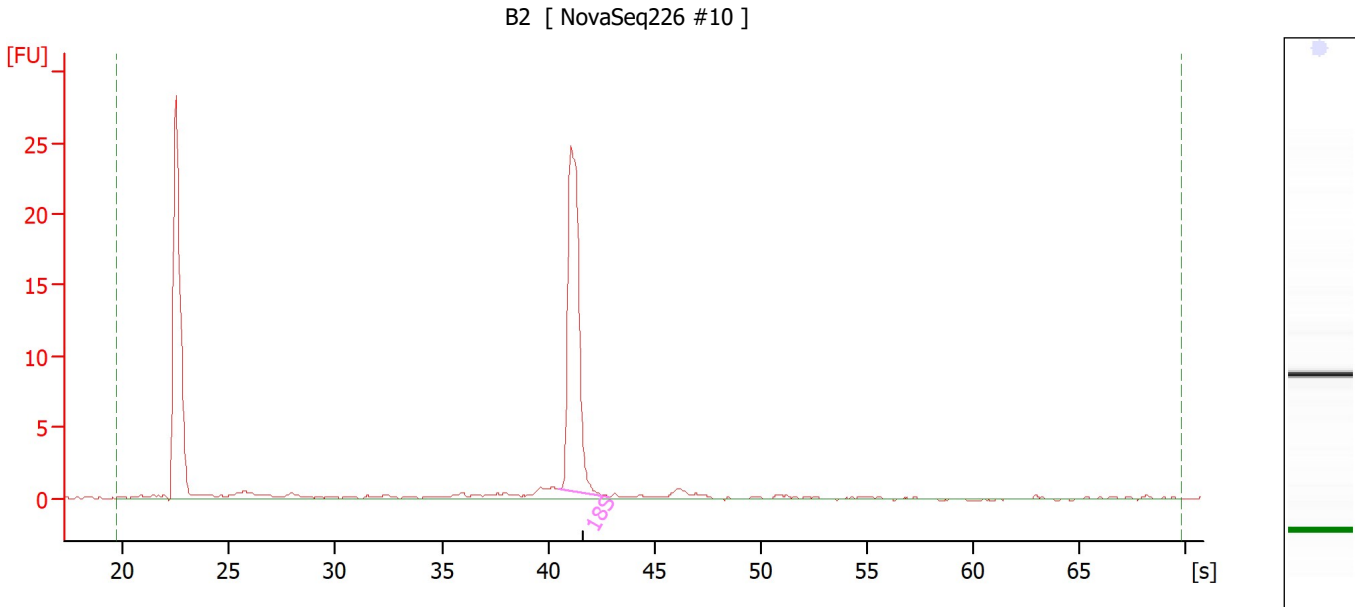
Fragment table for sample 3 : C1

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.38	42.87	29.8	54.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : B2

RNA Area:	53.9	RNA Integrity Number (RIN):	9.6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	19 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 9.60

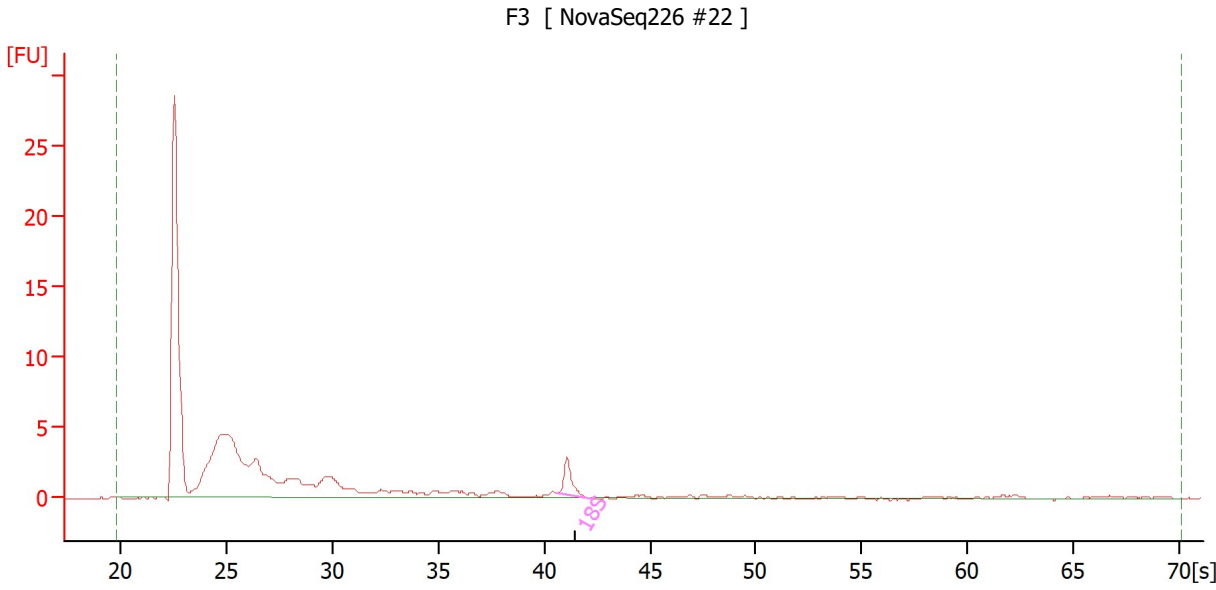
Fragment table for sample 4 : B2

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.50	42.83	35.4	65.7

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : F3

RNA Area:	70.2	RNA Integrity Number (RIN):	4 (B.02.10)
RNA Concentration:	25 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:4

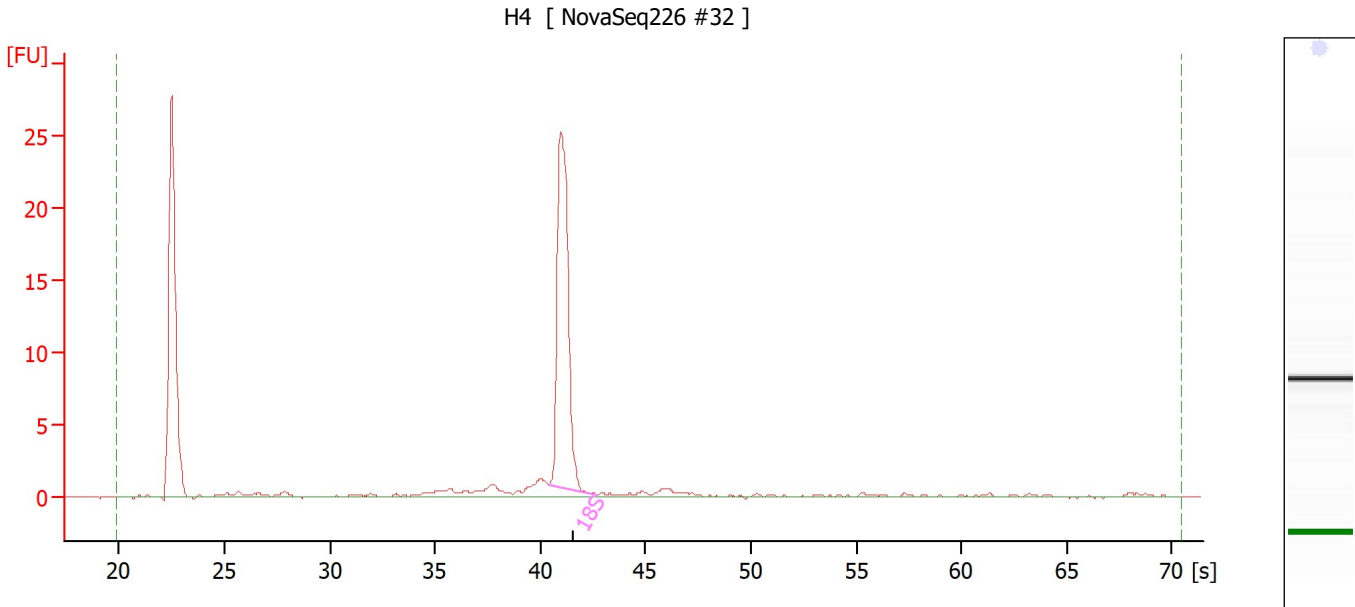
Fragment table for sample 5 : F3

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.58	42.31	2.9	4.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : H4

RNA Area:	55.6	RNA Integrity Number (RIN):	9.3 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	20 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 9.30

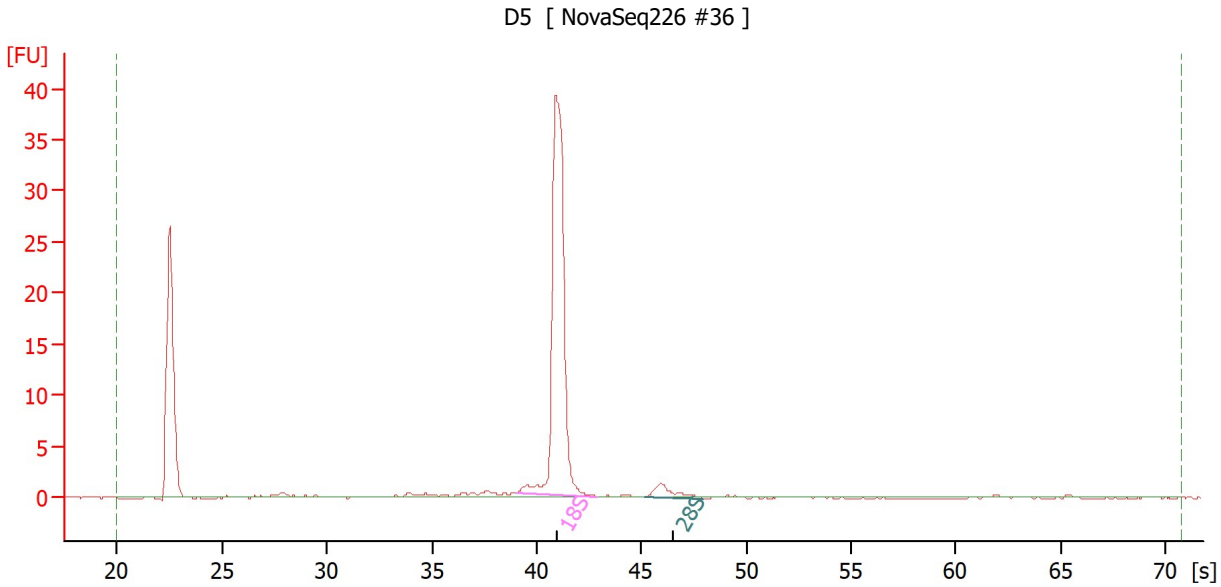
Fragment table for sample 6 : H4

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.41	42.70	35.5	63.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : D5

RNA Area:	73.3	RNA Integrity Number (RIN):	9.9 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	26 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 9.90

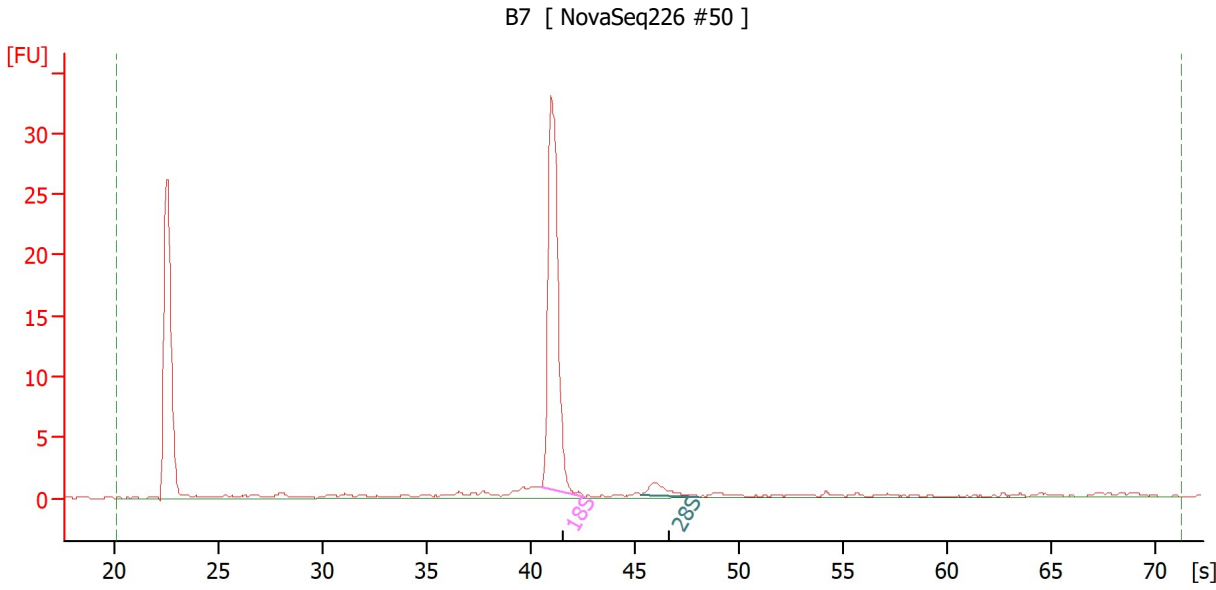
Fragment table for sample 7 : D5

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	39.05	42.90	61.6	84.2
28S	45.15	47.97	2.8	3.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : B7

RNA Area:	67.4	RNA Integrity Number (RIN):	9.8 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	24 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 9.80

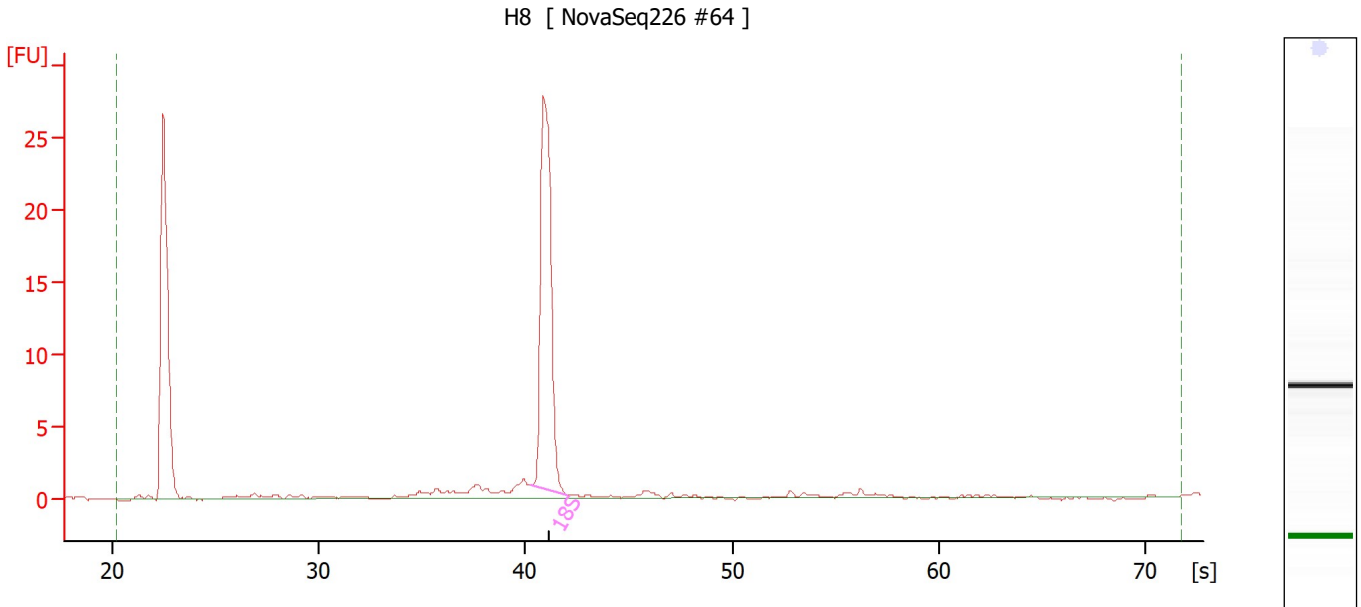
Fragment table for sample 8 : B7

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.46	42.57	45.4	67.3
28S	45.26	48.10	2.2	3.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : H8

RNA Area:	60.2	RNA Integrity Number (RIN):	9 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	22 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:9

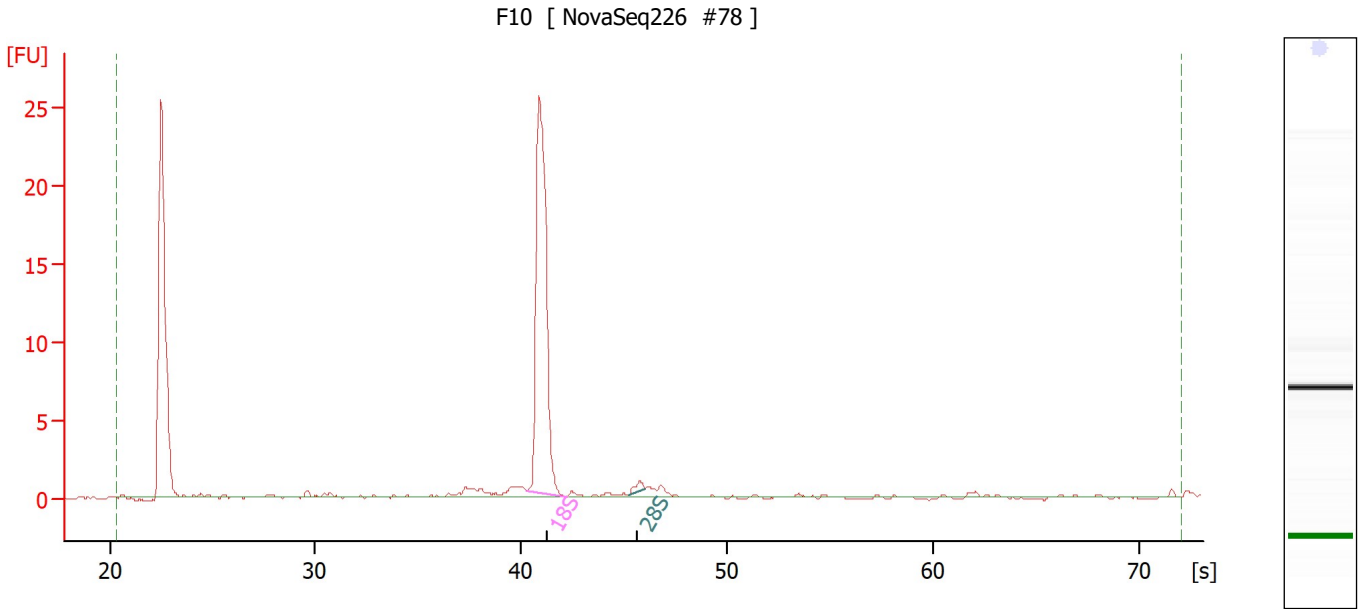
Fragment table for sample 9 : H8

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.27	42.04	38.8	64.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : F10

RNA Area:	48.0	RNA Integrity Number (RIN):	9.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	17 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 9.20

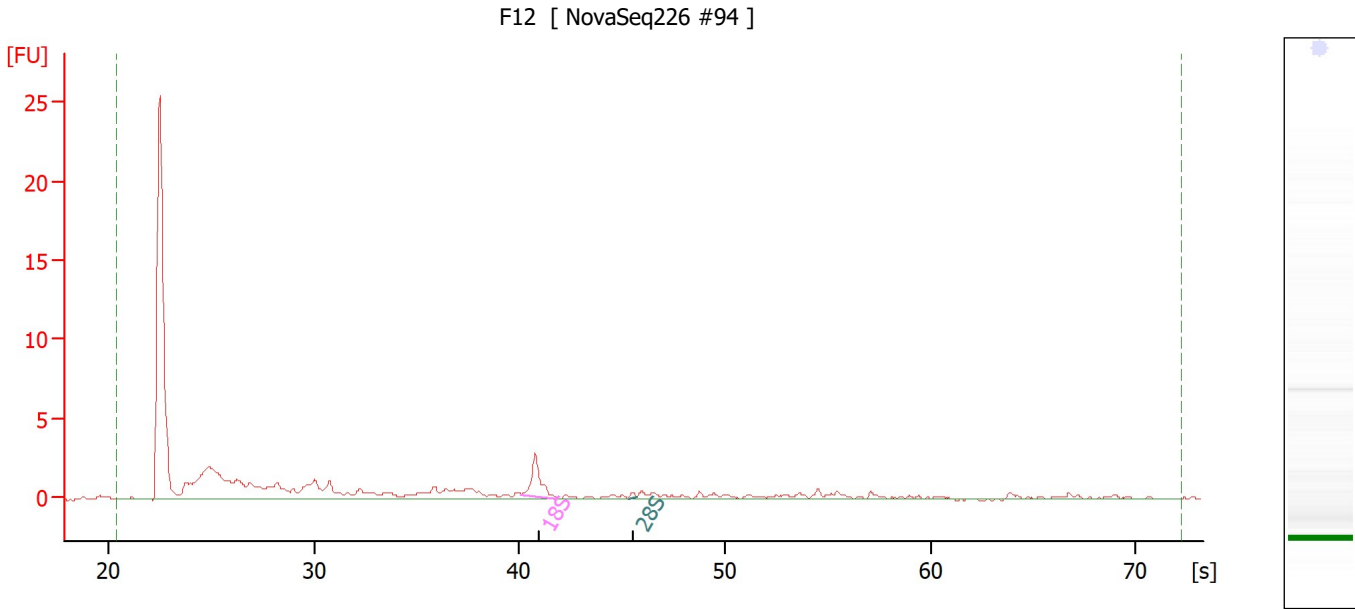
Fragment table for sample 10 : F10

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.25	42.18	35.3	73.5
28S	45.21	46.04	0.6	1.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : F12

RNA Area:	47.9	RNA Integrity Number (RIN):	6.6 (B.02.10)
RNA Concentration:	17 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.60

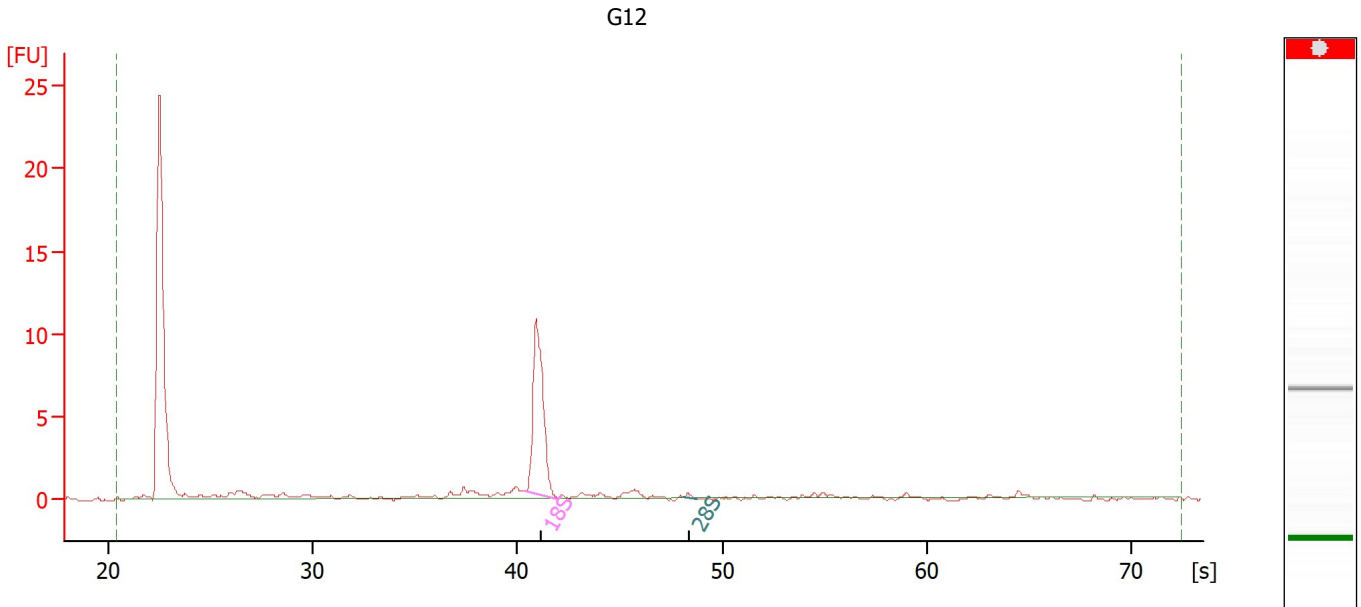
Fragment table for sample 11 : F12

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.08	41.86	3.2	6.6
28S	45.31	45.68	0.1	0.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
 Modified: 7/1/2020 3:44:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : G12

RNA Area:	26.1	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	9 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

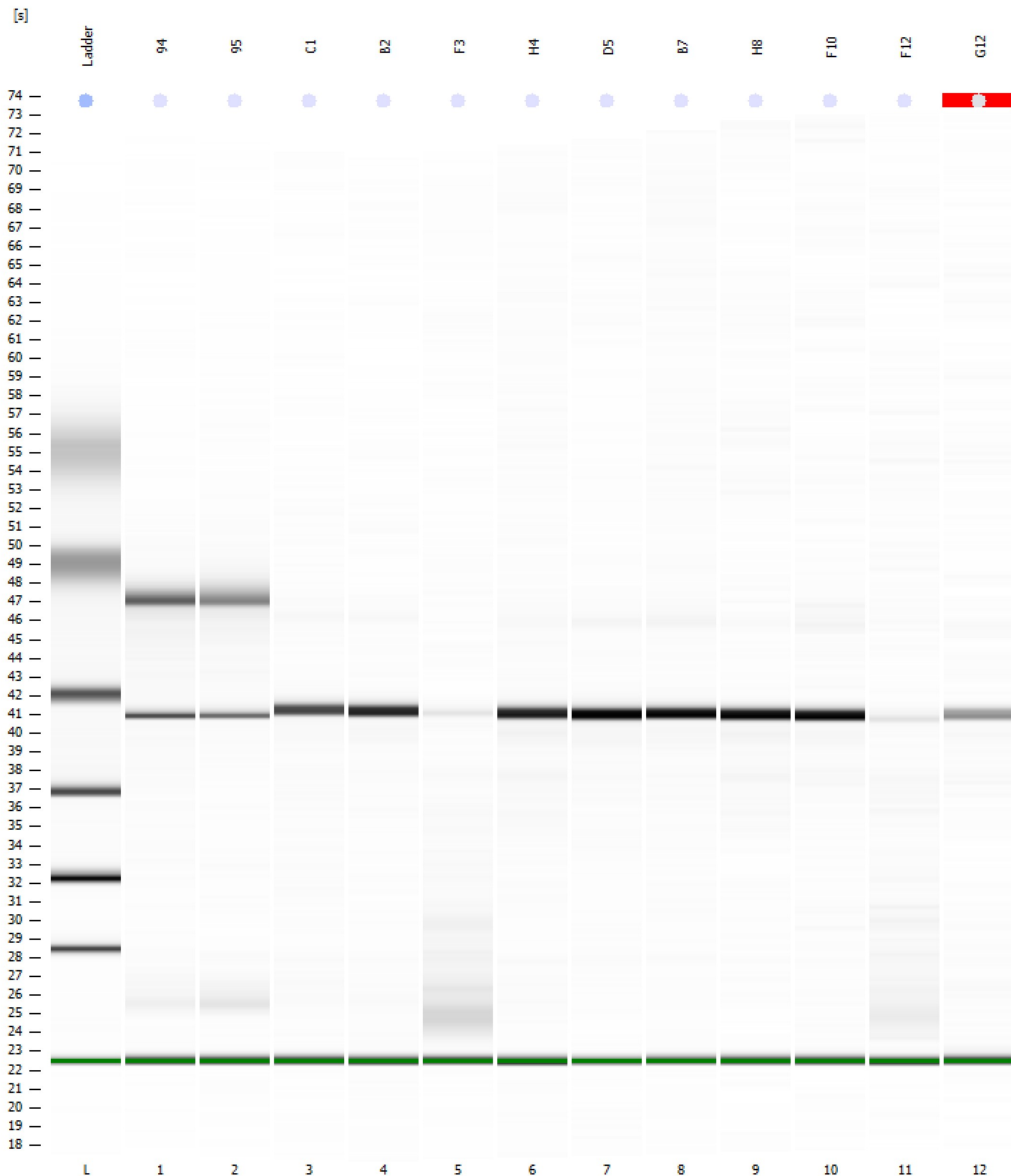
Fragment table for sample 12 : G12

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.38	41.96	14.7	56.3
28S	48.09	48.72	0.2	0.6

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad

Created: 7/1/2020 3:04:00 PM
Modified: 7/1/2020 3:44:56 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 7/1/2020 3:04:00 PM
 Data Path: Z:\...01\Bioanalyzer1_Eukaryote Total RNA Nano_2020-07-01_002.xad Modified: 7/1/2020 3:44:56 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		7/1/2020 3:27:04 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-07-01\Bioanalyze r1_Eukaryote Total RNA Nano_2020-07-01_002.xad)		Instrument	Run		7/1/2020 3:04:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		7/1/2020 3:04:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		7/1/2020 3:04:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		7/1/2020 3:04:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		7/1/2020 3:04:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		7/1/2020 3:04:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		7/1/2020 3:04:05 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB