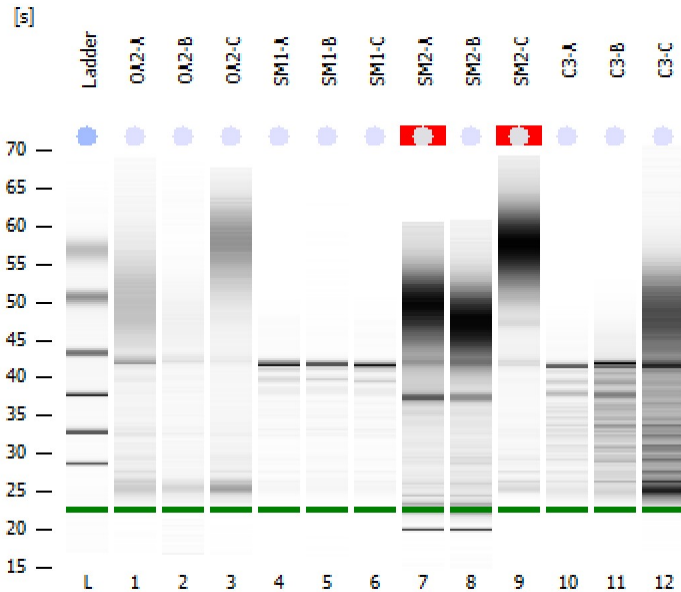


Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electrophoresis File Run Summary



Instrument Information:

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

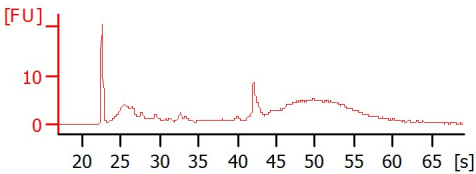
Assay Information:

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)
 © Copyright 2003 - 2009 Agilent Technologies, Inc.

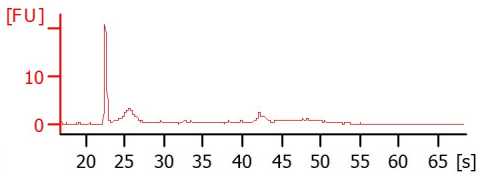
Chip Information:

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

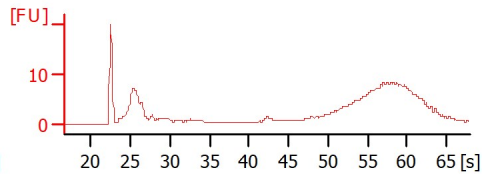
OA2-A
 RIN: 5.30



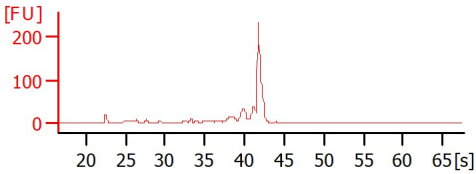
OA2-B
 RIN: 3.70



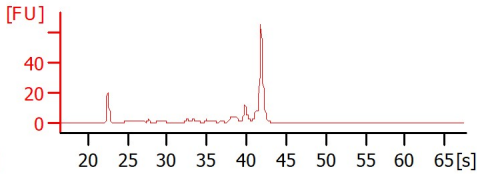
OA2-C
 RIN: 2.60



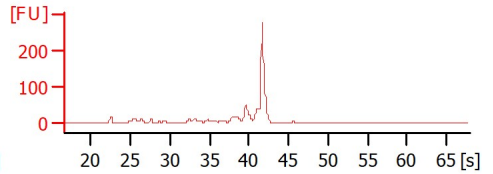
SM1-A
 RIN: 6.40



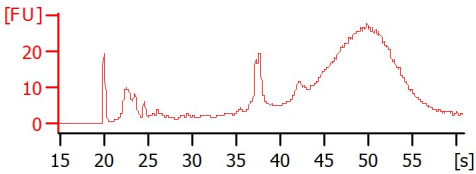
SM1-B
 RIN: 6.80



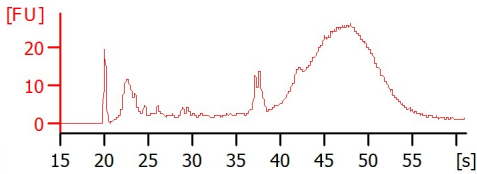
SM1-C
 RIN: 6.80



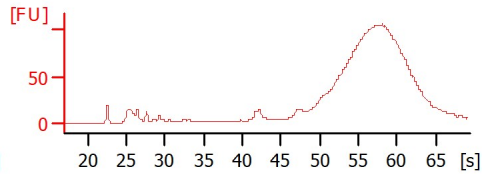
SM2-A
 RIN N/A



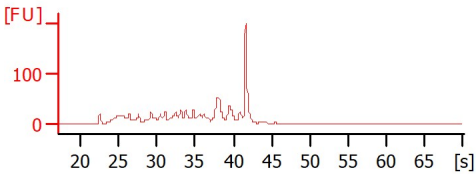
SM2-B
 RIN: 3.20



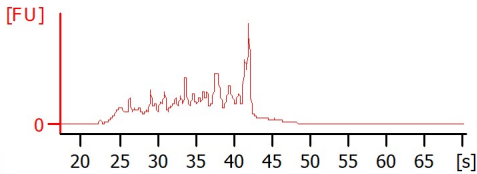
SM2-C
 RIN N/A



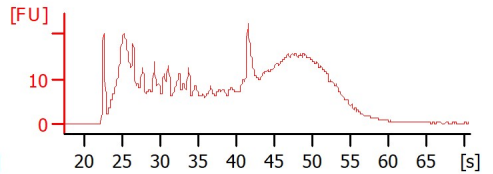
C3-A
 RIN: 5.20



C3-B
 RIN: 4.50



C3-C
 RIN: 3.20



Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
OA2-A		✓	RIN: 5.30	
OA2-B		✓	RIN: 3.70	
OA2-C		✓	RIN: 2.60	
SM1-A		✓	RIN: 6.40	
SM1-B		✓	RIN: 6.80	
SM1-C		✓	RIN: 6.80	
SM2-A		✓	RIN N/A	
SM2-B		✓	RIN: 3.20	
SM2-C		✓	RIN N/A	
C3-A		✓	RIN: 5.20	
C3-B		✓	RIN: 4.50	
C3-C		✓	RIN: 3.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 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

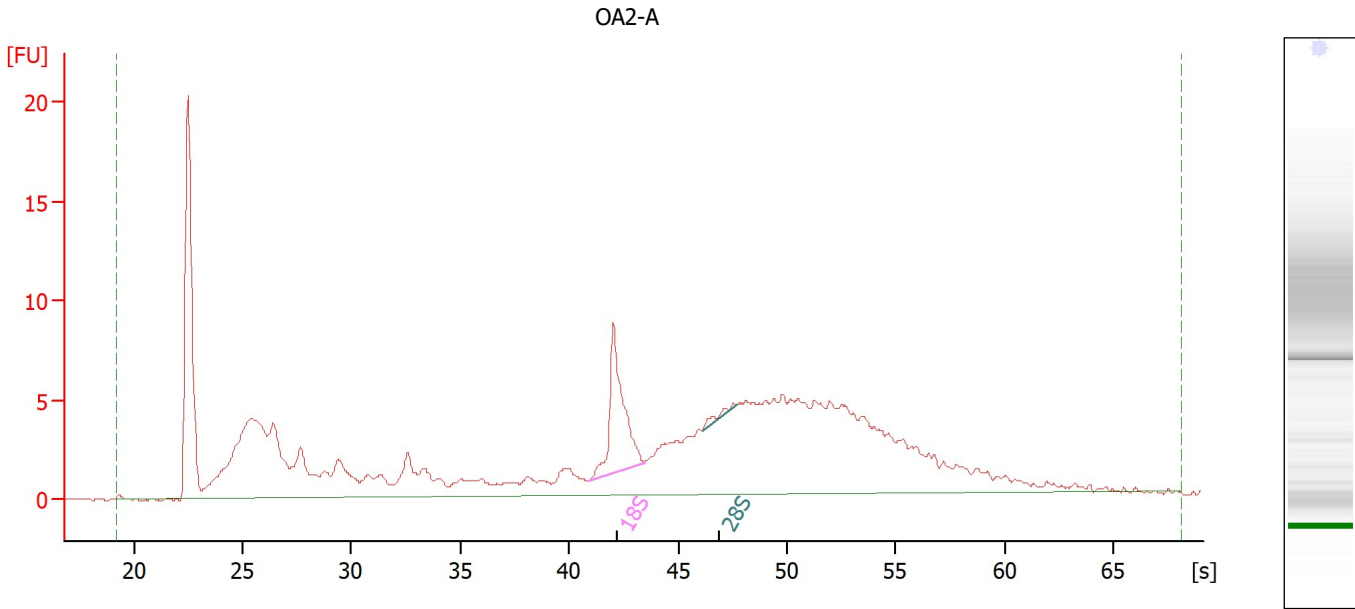
Ladder

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

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electropherogram Summary



Overall Results for sample 1 : OA2-A

RNA Area:	206.3	RNA Integrity Number (RIN):	5.3 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	140 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 5.30

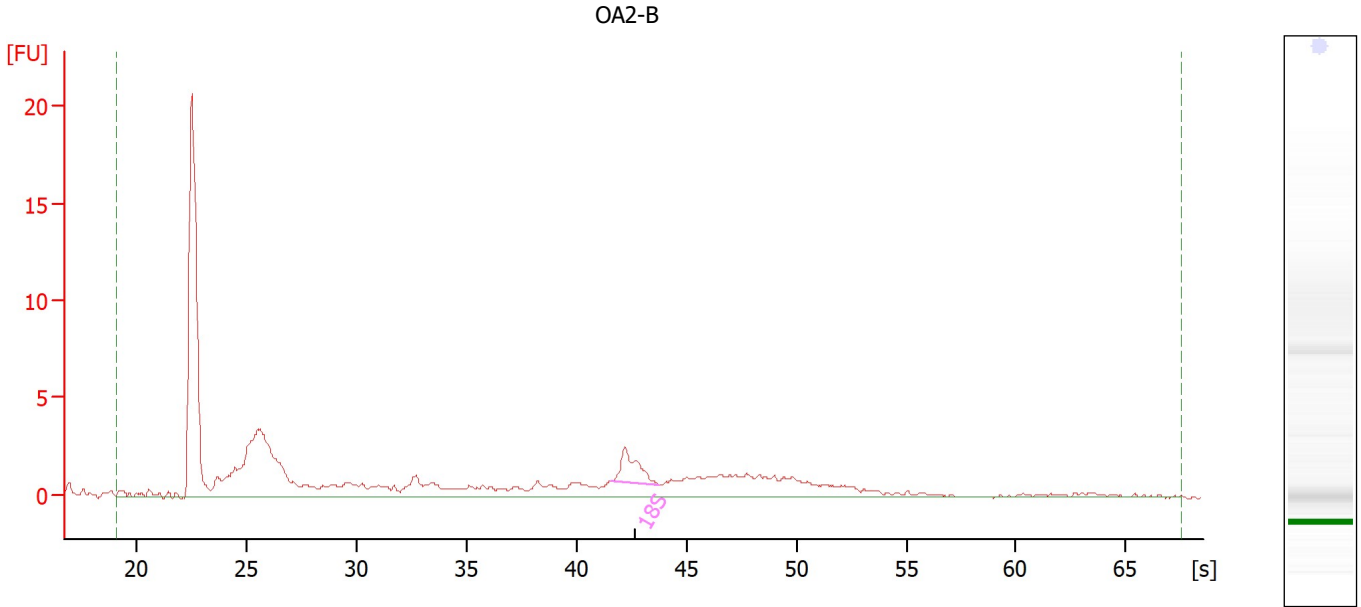
Fragment table for sample 1 : OA2-A

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.90	43.47	12.4	6.0
28S	46.13	47.71	0.7	0.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : OA2-B

RNA Area:	77.7	RNA Integrity Number (RIN):	3.7 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	53 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.70

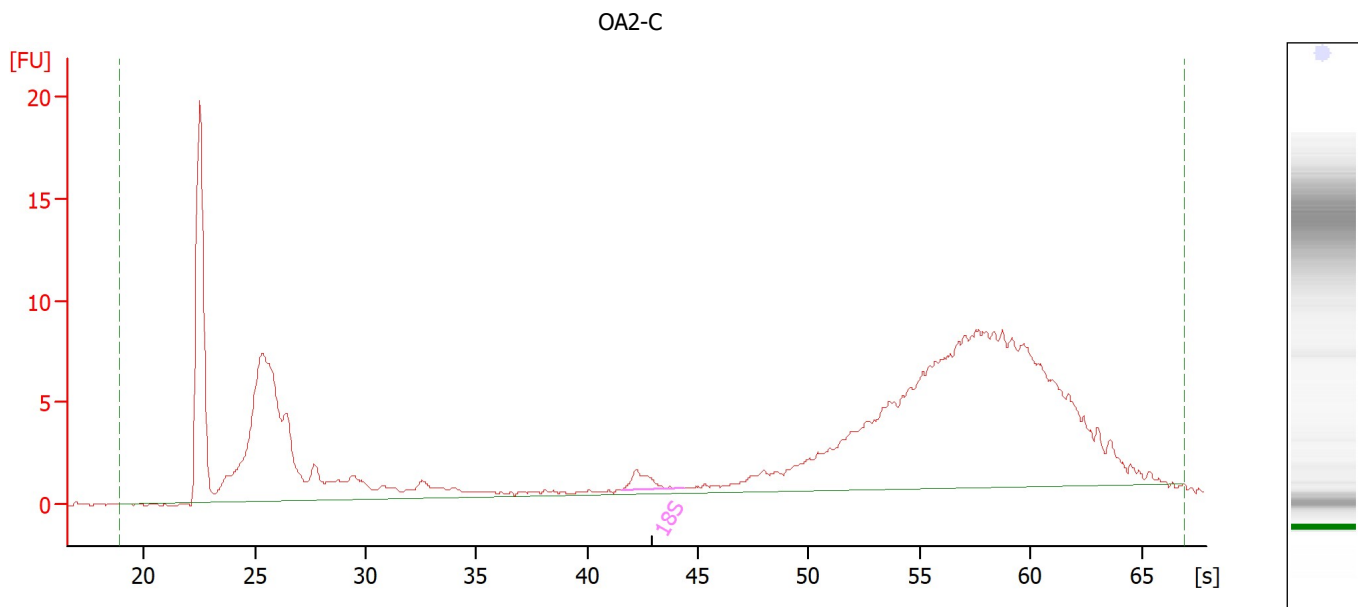
Fragment table for sample 2 : OA2-B

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.58	43.78	3.7	4.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : OA2-C

RNA Area:	203.0	RNA Integrity Number (RIN):	2.6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	138 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

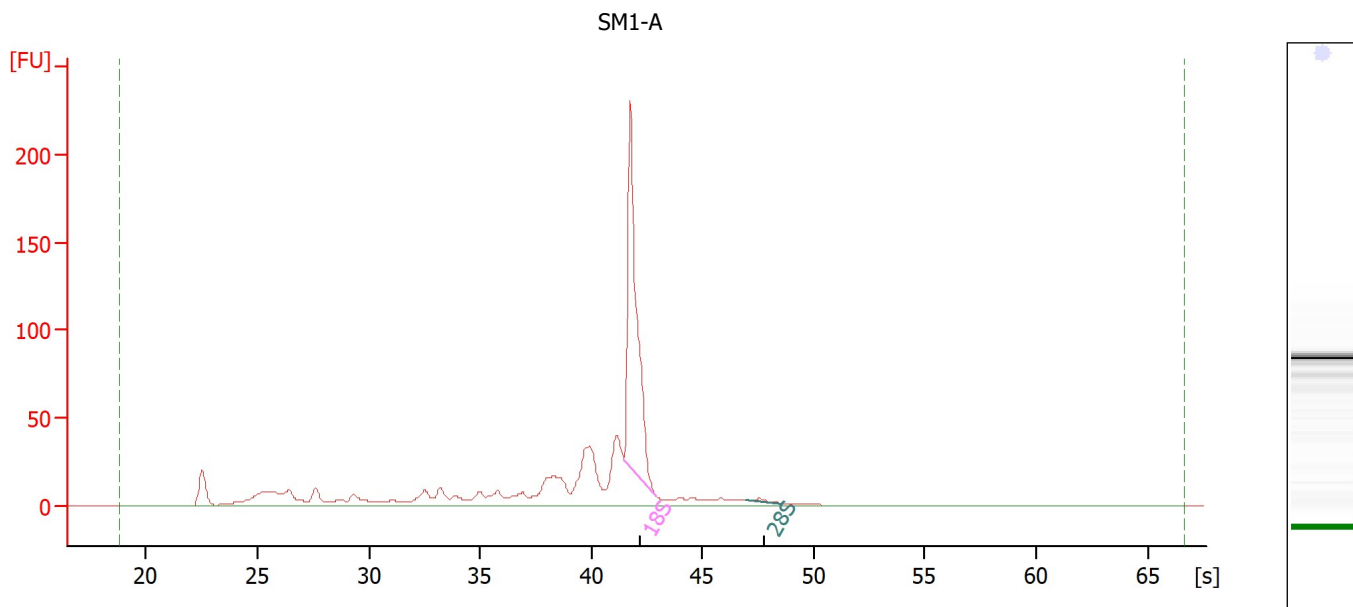
Fragment table for sample 3 : OA2-C

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.56	44.32	2.2	1.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SM1-A

RNA Area:	760.5	RNA Integrity Number (RIN):	6.4 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	517 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.40

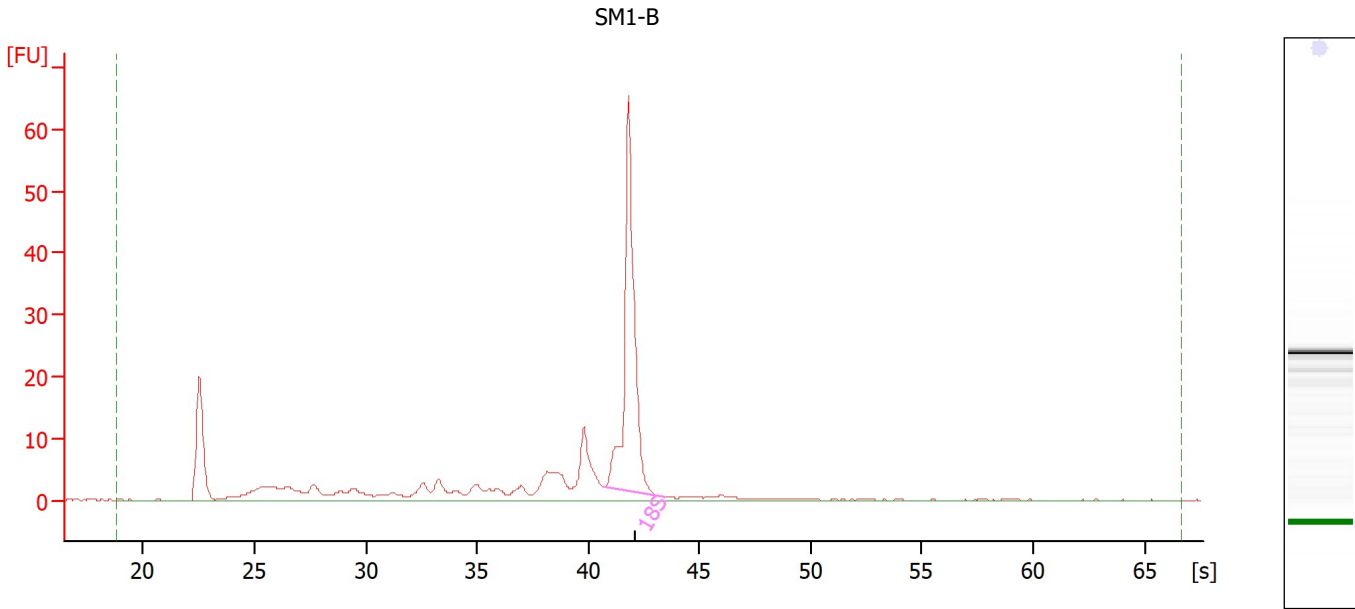
Fragment table for sample 4 : SM1-A

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.48	42.92	229.6	30.2
28S	46.98	48.57	2.6	0.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SM1-B

RNA Area:	190.0	RNA Integrity Number (RIN):	6.8 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	129 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.80

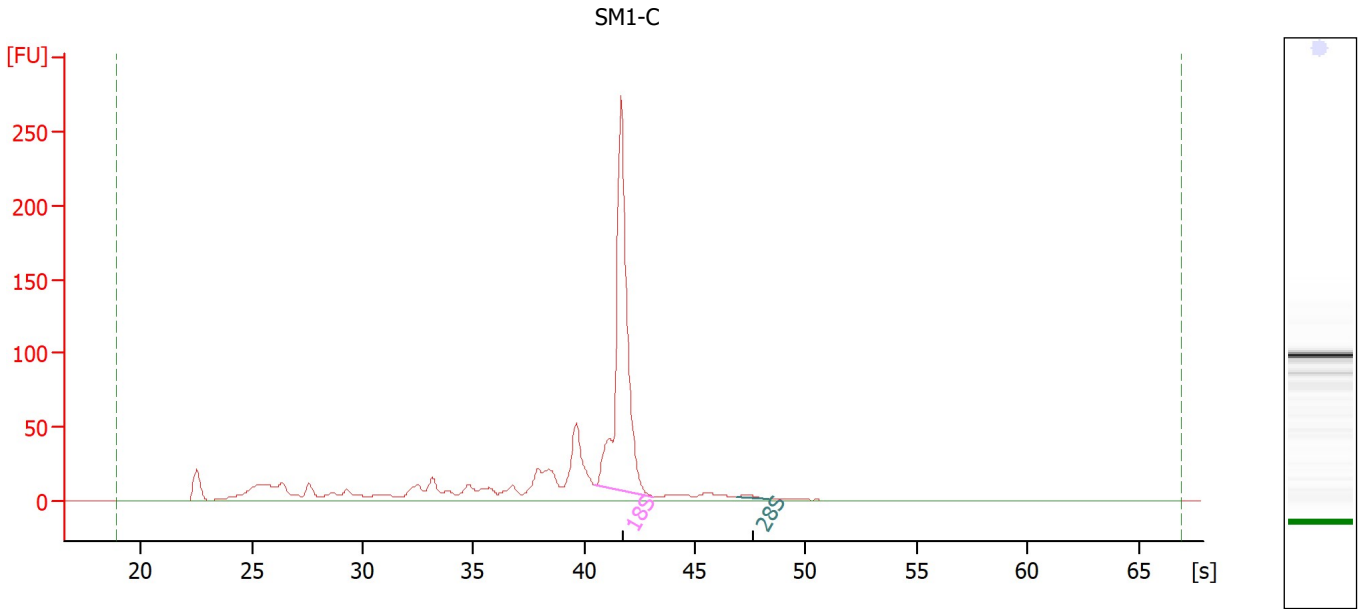
Fragment table for sample 5 : SM1-B

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.70	43.45	75.3	39.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : SM1-C

RNA Area:	908.4	RNA Integrity Number (RIN):	6.8 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	617 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.80

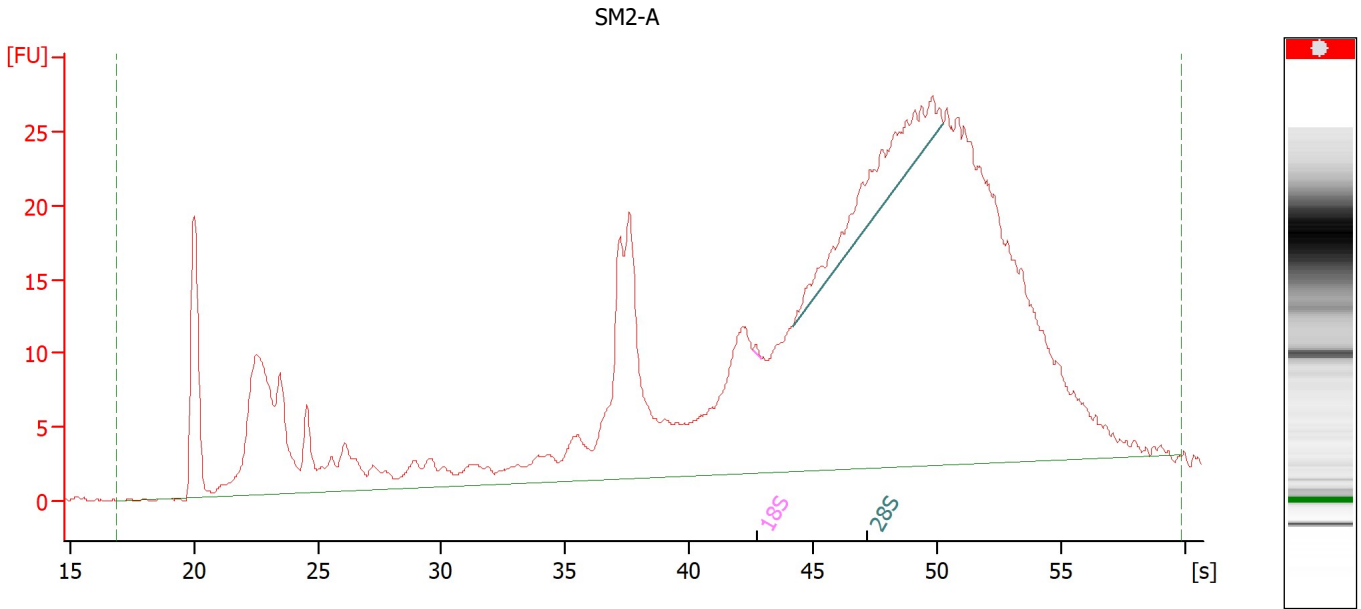
Fragment table for sample 6 : SM1-C

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.49	43.11	352.4	38.8
28S	46.84	48.35	2.6	0.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : SM2-A

RNA Area:	655.7	RNA Integrity Number (RIN):	N/A (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	445 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	97.8	Result Flagging Label:	RIN N/A

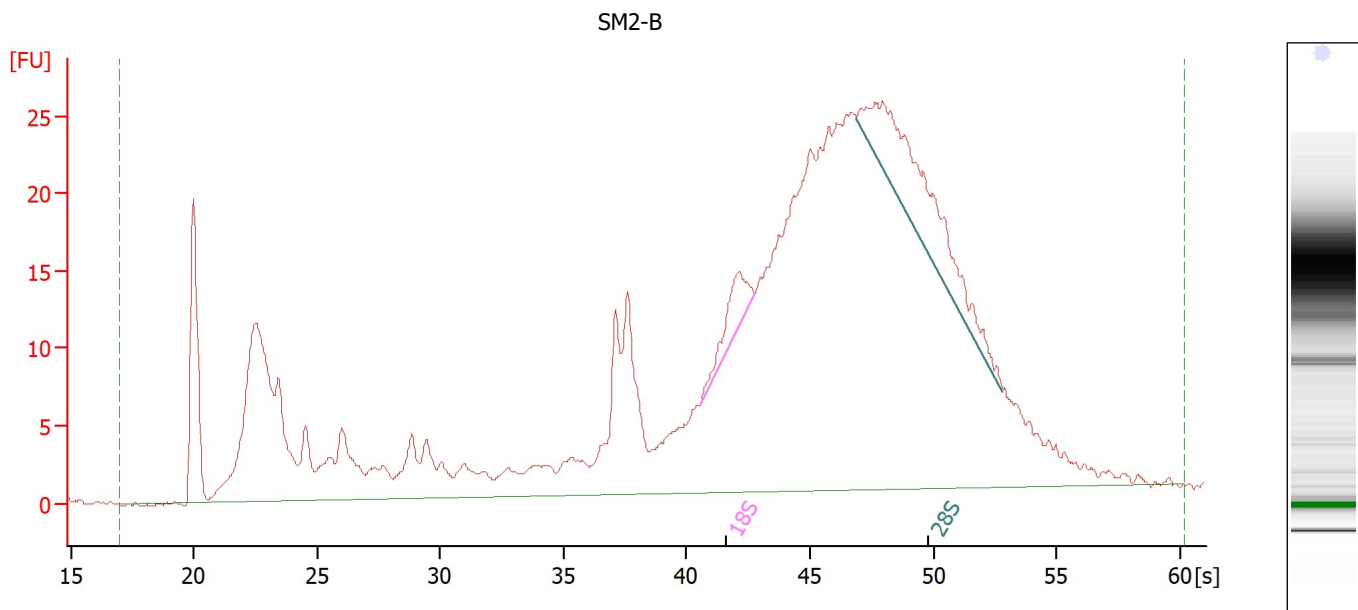
Fragment table for sample 7 : SM2-A

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	42.53	42.92	0.3	0.0
28S	44.18	50.20	28.7	4.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : SM2-B

RNA Area:	661.5	RNA Integrity Number (RIN):	3.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	449 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	4.1	Result Flagging Label:	RIN: 3.20

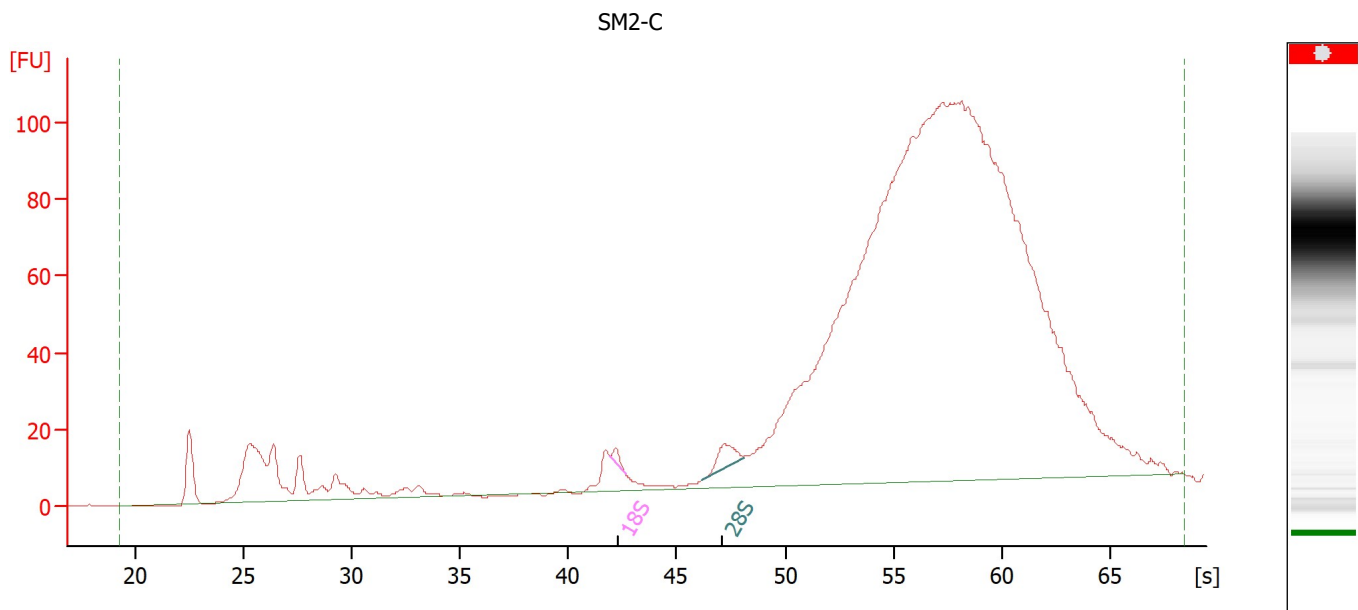
Fragment table for sample 8 : SM2-B

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.51	42.73	8.5	1.3
28S	46.87	52.81	34.6	5.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : SM2-C

RNA Area:	1,836.2	RNA Integrity Number (RIN):	N/A (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,248 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.6	Result Flagging Label:	RIN N/A

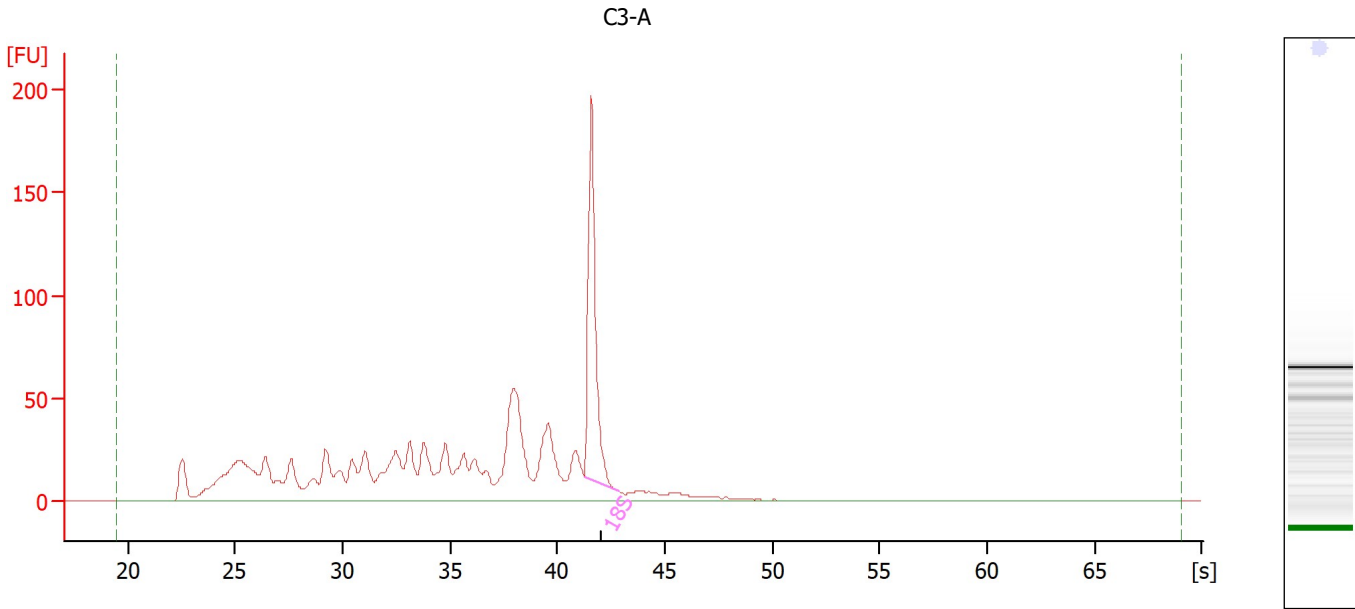
Fragment table for sample 9 : SM2-C

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.93	42.62	3.1	0.2
28S	46.19	48.07	11.3	0.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : C3-A

RNA Area:	1,169.5	RNA Integrity Number (RIN):	5.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	795 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.20

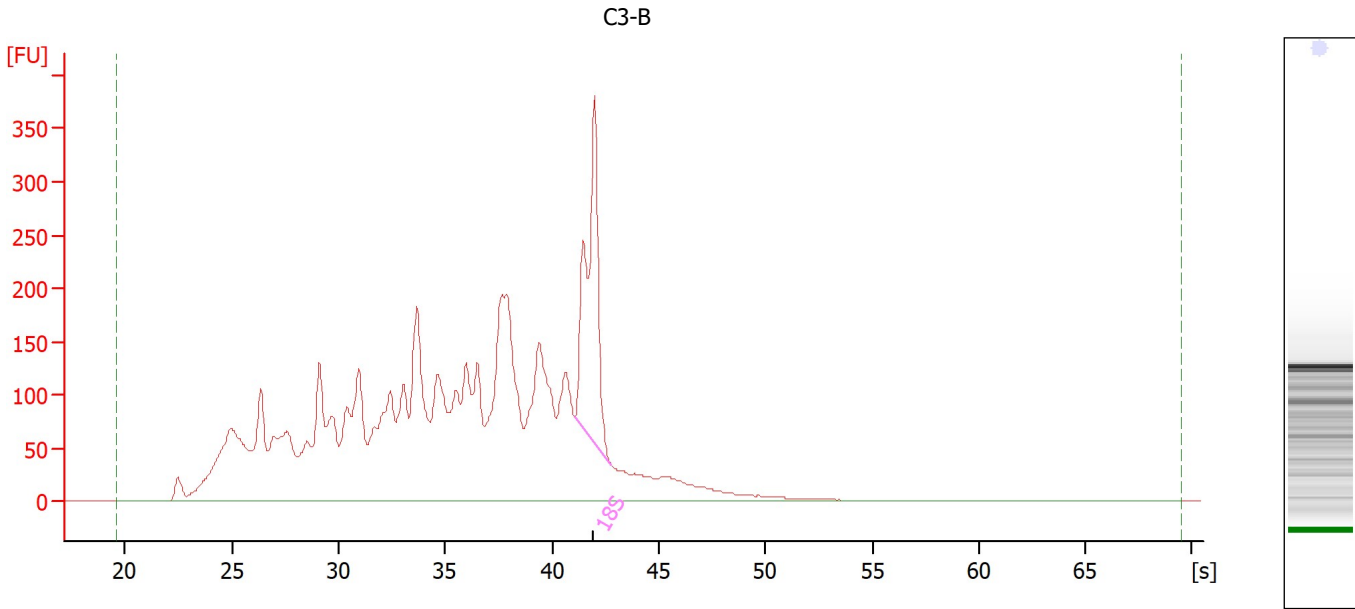
Fragment table for sample 10 : C3-A

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.25	42.85	166.3	14.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : C3-B

RNA Area:	5,588.3	RNA Integrity Number (RIN):	4.5 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	3,797 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 4.50

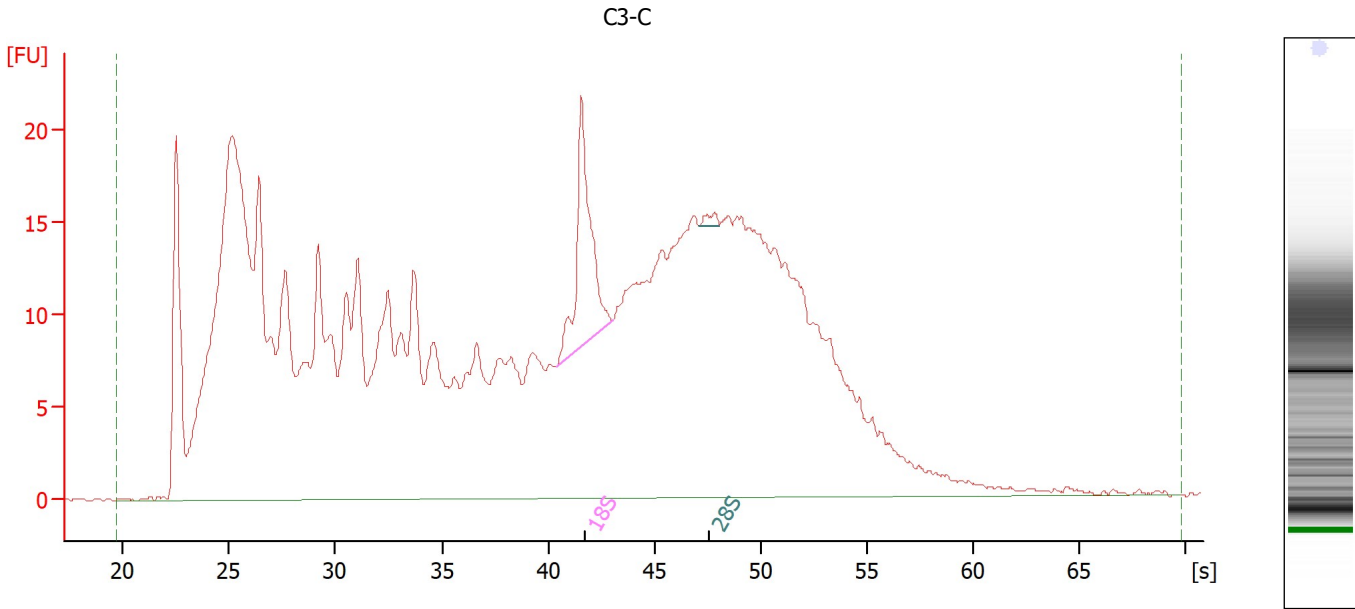
Fragment table for sample 11 : C3-B

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.07	42.79	497.0	8.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
 Modified: 12/4/2019 4:47:41 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : C3-C

RNA Area:	902.0	RNA Integrity Number (RIN):	3.2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	613 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.20

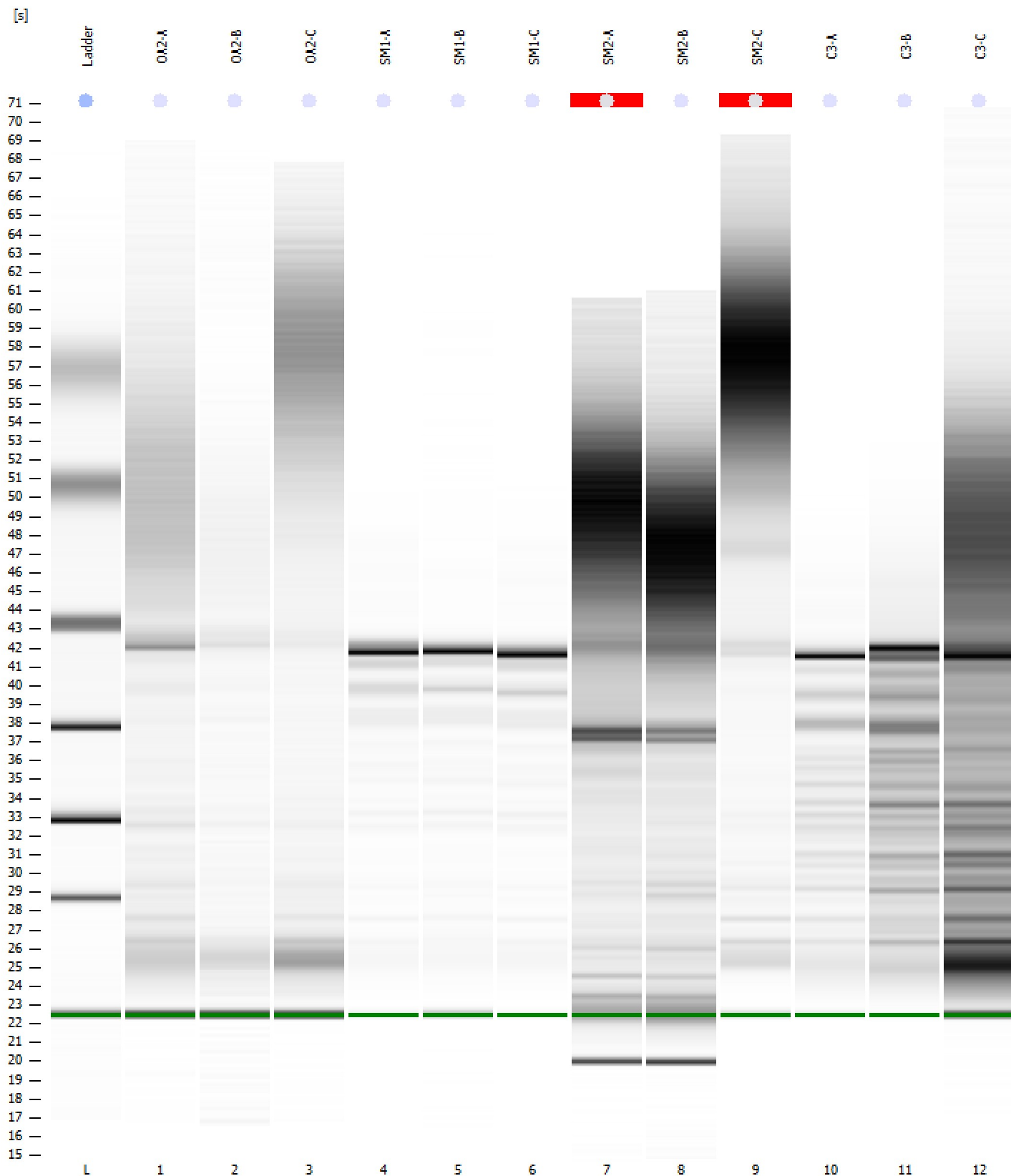
Fragment table for sample 12 : C3-C

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.45	43.03	24.2	2.7
28S	47.12	48.08	0.9	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
Modified: 12/4/2019 4:47:41 PM

Gel Image

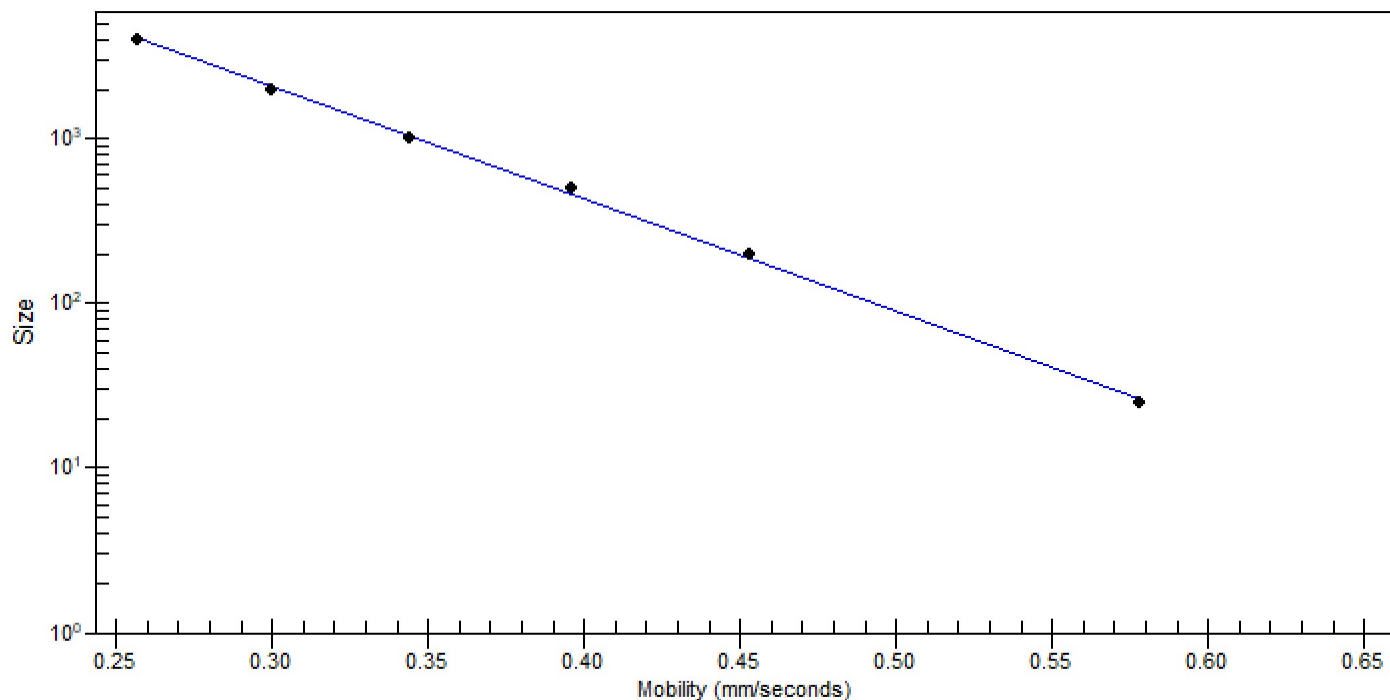


Assay Class: Eukaryote Total RNA Nano
Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad

Created: 12/4/2019 3:03:06 PM
Modified: 12/4/2019 4:47:41 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano Created: 12/4/2019 3:03:06 PM
 Data Path: Z:\...04\Bioanalyzer1_Eukaryote Total RNA Nano_2019-12-04_002.xad Modified: 12/4/2019 4:47:41 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		12/4/2019 3:26:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-12-04\Bioanalyze r1_Eukaryote Total RNA Nano_2019-12-04_002.xad)		Instrument	Run		12/4/2019 3:03:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/4/2019 3:03:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/4/2019 3:03:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/4/2019 3:03:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/4/2019 3:03:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/4/2019 3:03:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/4/2019 3:03:12 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB