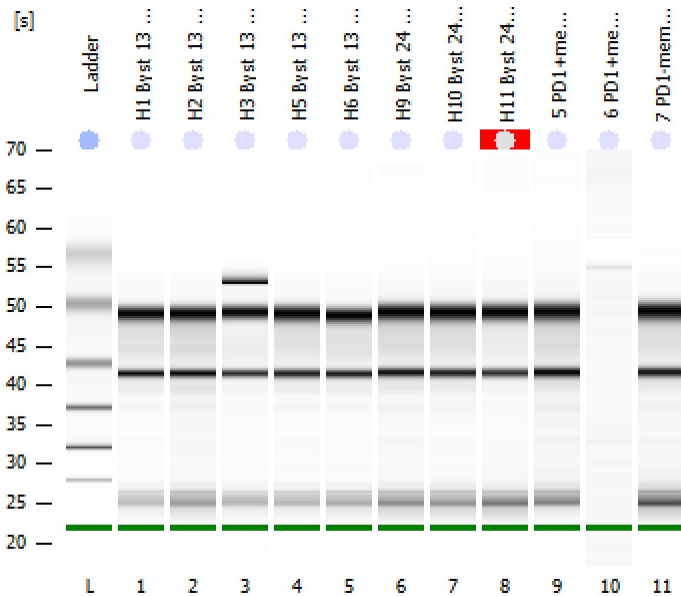


Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

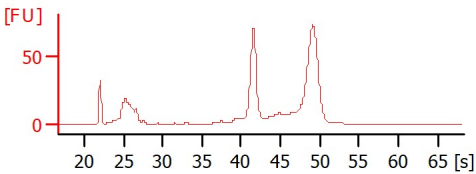
Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy  
 Assay Class: Eukaryote Total RNA Pico  
 Version: 2.6  
 Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)  
 © Copyright 2003 - 2009 Agilent Technologies, Inc.

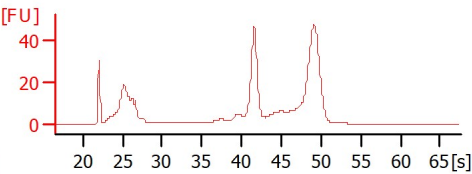
Chip Information:

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

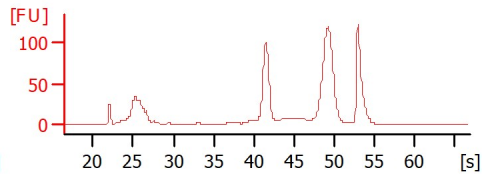
**H1 Byst 13 PD1 + #1 D0**  
 HiSeq2024 #21  
 RIN: 9.70



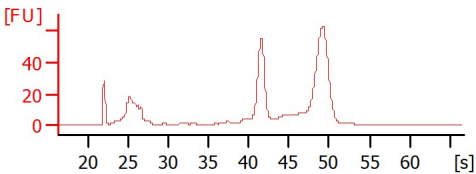
**H2 Byst 13 PD1 - #1 D0**  
 HiSeq2024 #22  
 RIN: 9.20



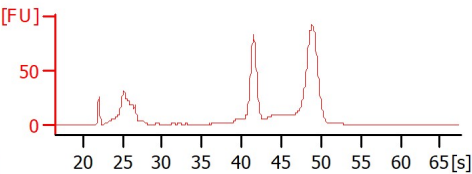
**H3 Byst 13 PD1 + #1 IL2 D3**  
 HiSeq2024 #23  
 RIN: 9.50



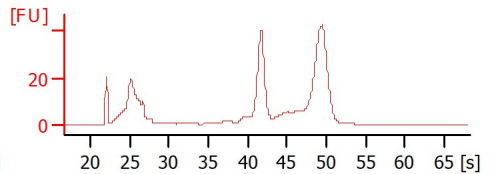
**H5 Byst 13 PD1 + #2 D0**  
 HiSeq2024 #25  
 RIN: 9.80



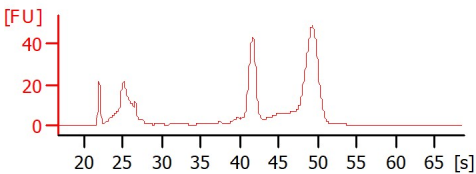
**H6 Byst 13 PD1 - #2 D0**  
 HiSeq2024 #26  
 RIN: 9.70



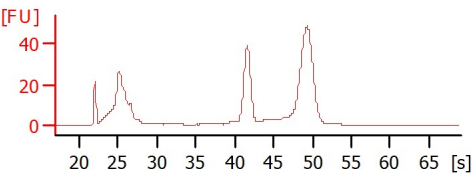
**H9 Byst 24 PD1 + D0**  
 HiSeq2024 #29  
 RIN: 9.80



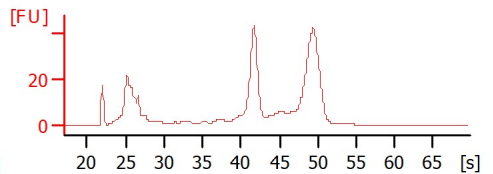
**H10 Byst 24 PD1 - D0**  
 HiSeq2024 #30  
 RIN: 9.50



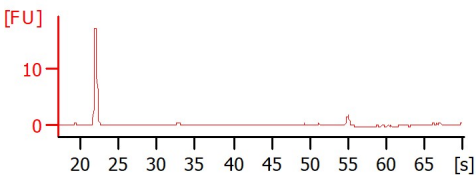
**H11 Byst 24 PD1 + IL2 D3**  
 HiSeq2024 #31  
 RIN: N/A



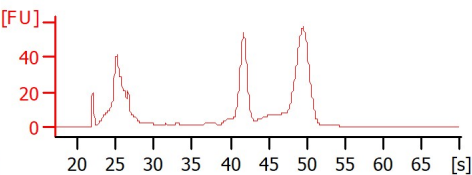
**5 PD1+memT Bystander 10 RNA**  
 HiSeq2024 #33  
 RIN: 9.40



**6 PD1+memT + IL2 Bystander 10 RNA**  
 HiSeq2024 #34  
 RIN: 1



**7 PD1-memT Bystander 10 RNA**  
 HiSeq2024 #35  
 RIN: 9.50



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
H1 Byst 13 PD1 + #1 D0	HiSeq2024 #21	✓	RIN: 9.70	
H2 Byst 13 PD1 - #1 D0	HiSeq2024 #22	✓	RIN: 9.20	
H3 Byst 13 PD1 + #1 IL2 D3	HiSeq2024 #23	✓	RIN: 9.50	
H5 Byst 13 PD1 + #2 D0	HiSeq2024 #25	✓	RIN: 9.80	
H6 Byst 13 PD1 - #2 D0	HiSeq2024 #26	✓	RIN: 9.70	
H9 Byst 24 PD1 + D0	HiSeq2024 #29	✓	RIN: 9.80	
H10 Byst 24 PD1 - D0	HiSeq2024 #30	✓	RIN: 9.50	
H11 Byst 24 PD1 + IL2 D3	HiSeq2024 #31	✓	RIN N/A	
5 PD1+memT Bystander 10 RNA	HiSeq2024 #33	✓	RIN: 9.40	
6 PD1+memT + IL2 Bystander 10 RNA	HiSeq2024 #34	✓	RIN:1	
7 PD1-memT Bystander 10 RNA	HiSeq2024 #35	✓	RIN: 9.50	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
 Minimum Visible Range [s] : 17  
 Maximum Visible Range [s] : 70  
 Start Analysis Time Range [s] : 18  
 End Analysis Time Range [s] : 69  
 Ladder Concentration [pg/μl] : 1000  
 Lower Marker Concentration [pg/μl] : 0  
 Upper Marker Concentration [pg/μl] : 0  
 Used Lower Marker for Quantitation  
 Standard Curve Fit is Logarithmic  
 Show Data Aligned to Lower Marker

**Integrator Settings**

Integration Start Time [s] : 18  
 Integration End Time [s] : 69  
 Slope Threshold : 0.6  
 Height Threshold [FU] : 0.5  
 Area Threshold : 0.2  
 Width Threshold [s] : 0.3  
 Baseline Plateau [s] : 6

**Filter Settings**

Filter Width [s] : 0.5  
 Polynomial Order : 4

**Ladder**

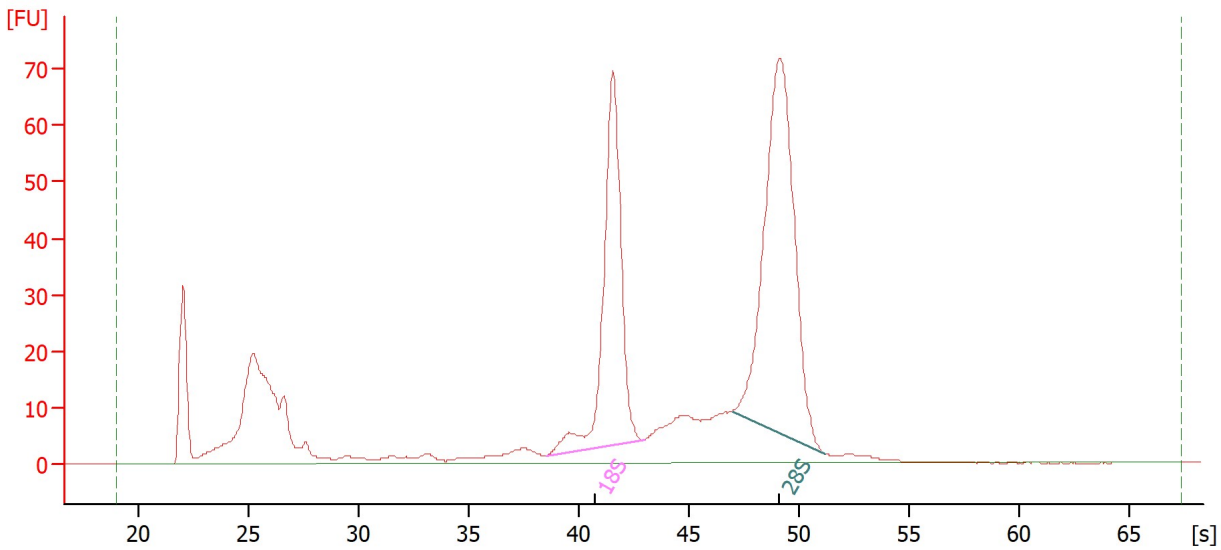
Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electropherogram Summary**

H1 Byst 13 PD1 + #1 D0 [ HiSeq2024 #21 ]



**Overall Results for sample 1 : H1 Byst 13 PD1 + #1 D0**

RNA Area:	702.3	RNA Integrity Number (RIN):	9.7 (B.02.10)
RNA Concentration:	3,597 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.70

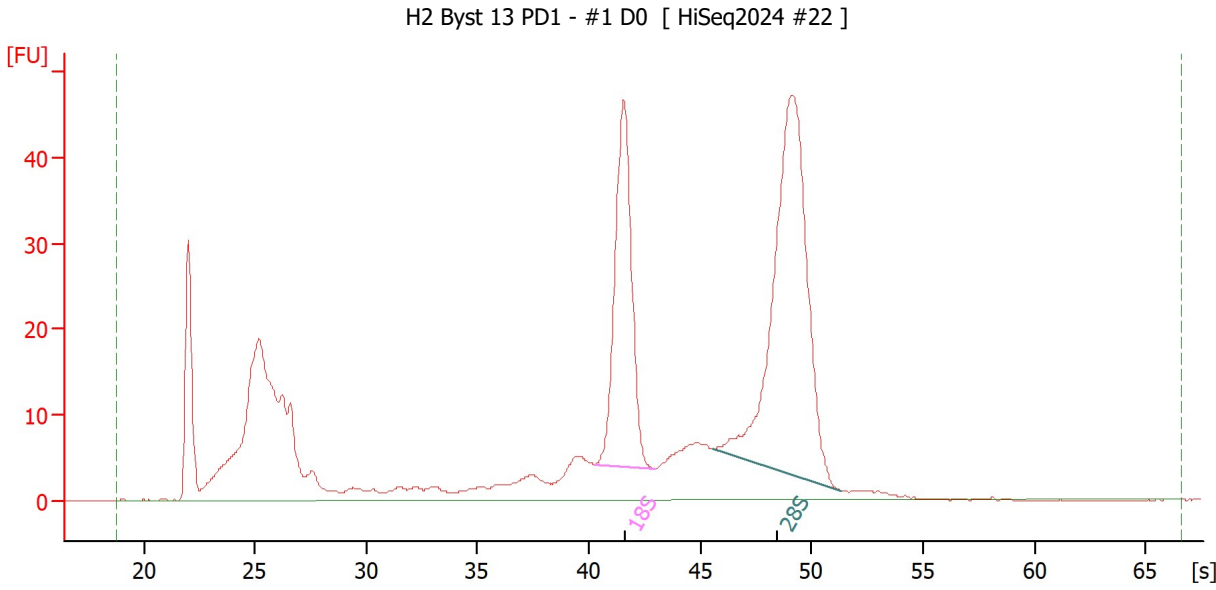
**Fragment table for sample 1 : H1 Byst 13 PD1 + #1 D0**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.54	42.98	146.2	20.8
28S	46.98	51.12	212.1	30.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : H2 Byst 13 PD1 - #1 D0**

RNA Area:	583.7	RNA Integrity Number (RIN):	9.2 (B.02.10)
RNA Concentration:	2,989 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.20

**Fragment table for sample 2 : H2 Byst 13 PD1 - #1 D0**

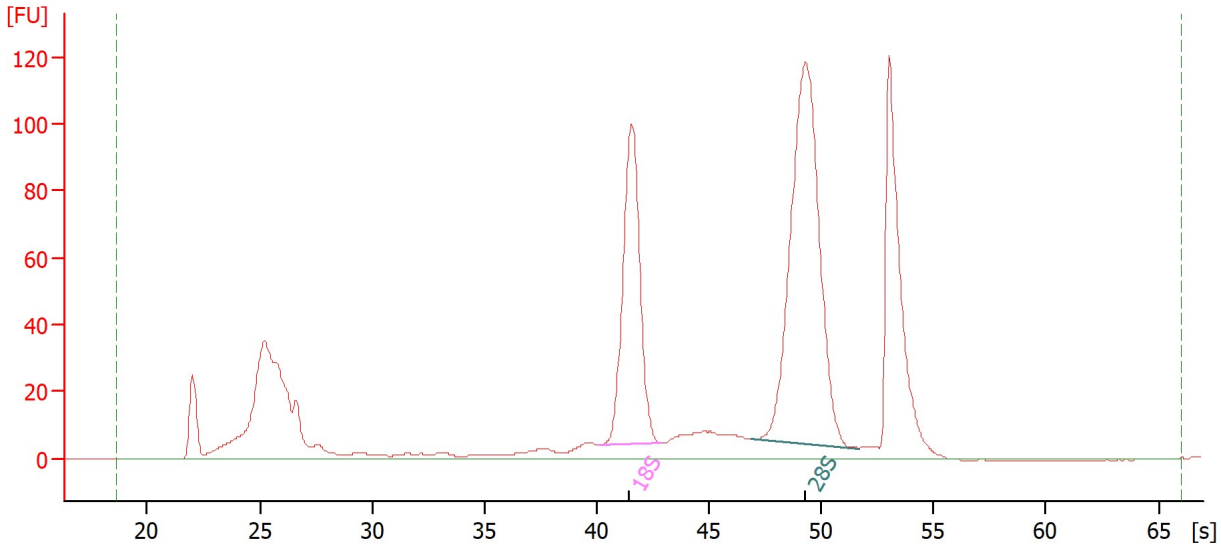
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.29	42.99	89.2	15.3
28S	45.54	51.33	160.2	27.4

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electropherogram Summary Continued ...**

H3 Byst 13 PD1 + #1 IL2 D3 [ HiSeq2024 #23 ]



**Overall Results for sample 3 : H3 Byst 13 PD1 + #1 IL2 D3**

RNA Area:	1,169.1	RNA Integrity Number (RIN):	9.5 (B.02.10)
RNA Concentration:	5,988 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.50

**Fragment table for sample 3 : H3 Byst 13 PD1 + #1 IL2 D3**

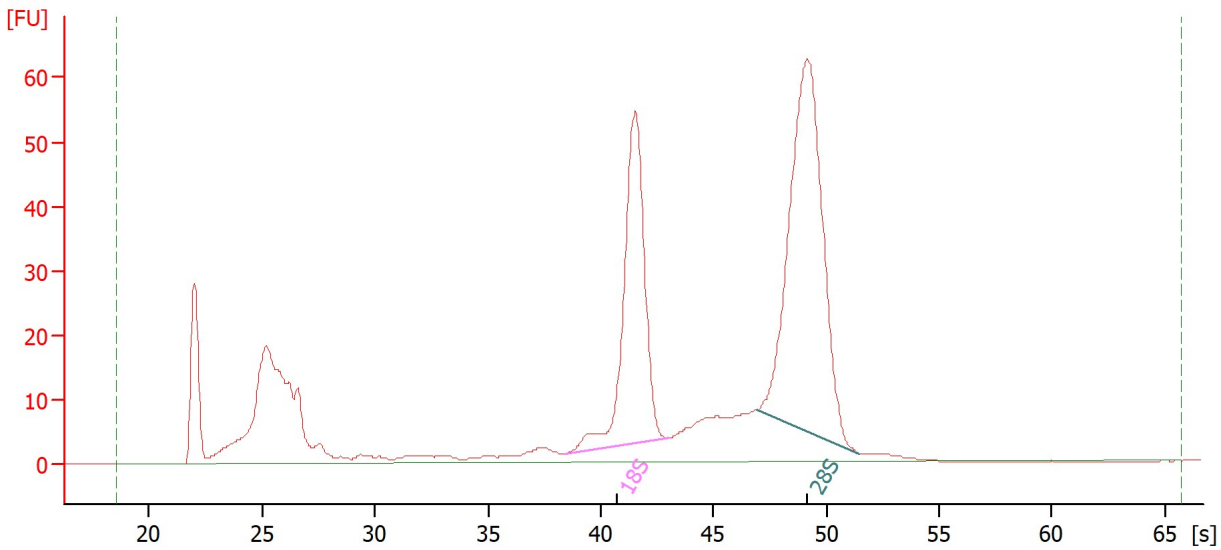
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.13	42.85	199.5	17.1
28S	46.82	51.65	344.1	29.4

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electropherogram Summary Continued ...**

H5 Byst 13 PD1 + #2 D0 [ HiSeq2024 #25 ]



**Overall Results for sample 4 : H5 Byst 13 PD1 + #2 D0**

RNA Area:	655.0	RNA Integrity Number (RIN):	9.8 (B.02.10)
RNA Concentration:	3,354 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.80

**Fragment table for sample 4 : H5 Byst 13 PD1 + #2 D0**

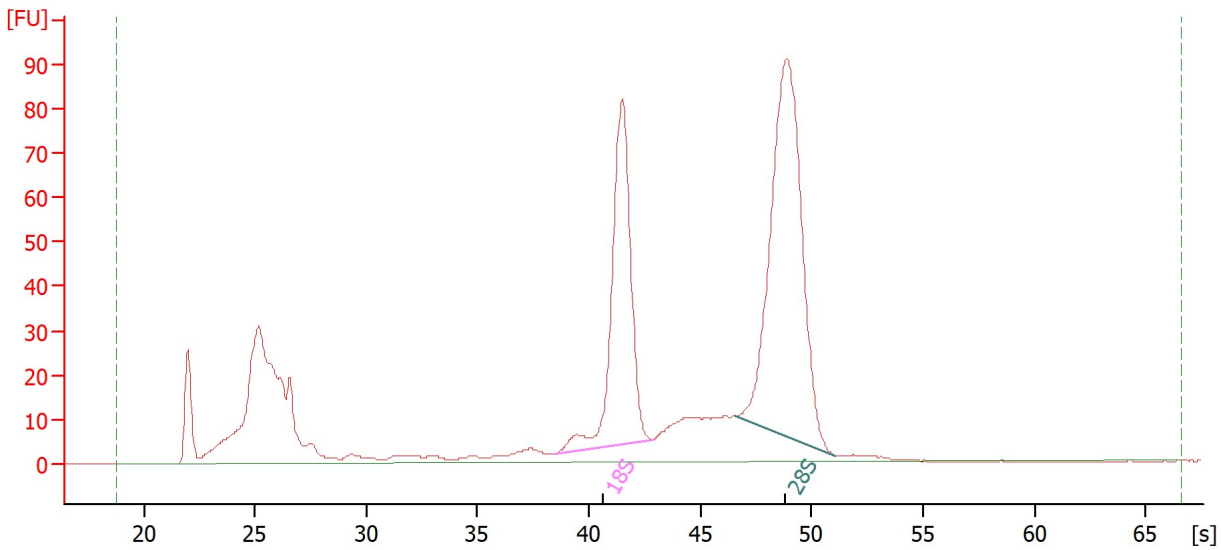
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.38	43.05	133.4	20.4
28S	46.90	51.48	202.4	30.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electropherogram Summary Continued ...**

H6 Byst 13 PD1 - #2 D0 [ HiSeq2024 #26 ]



**Overall Results for sample 5 : H6 Byst 13 PD1 - #2 D0**

RNA Area:	932.2	RNA Integrity Number (RIN):	9.7 (B.02.10)
RNA Concentration:	4,774 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.70

**Fragment table for sample 5 : H6 Byst 13 PD1 - #2 D0**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.45	42.84	184.0	19.7
28S	46.56	51.04	282.4	30.3

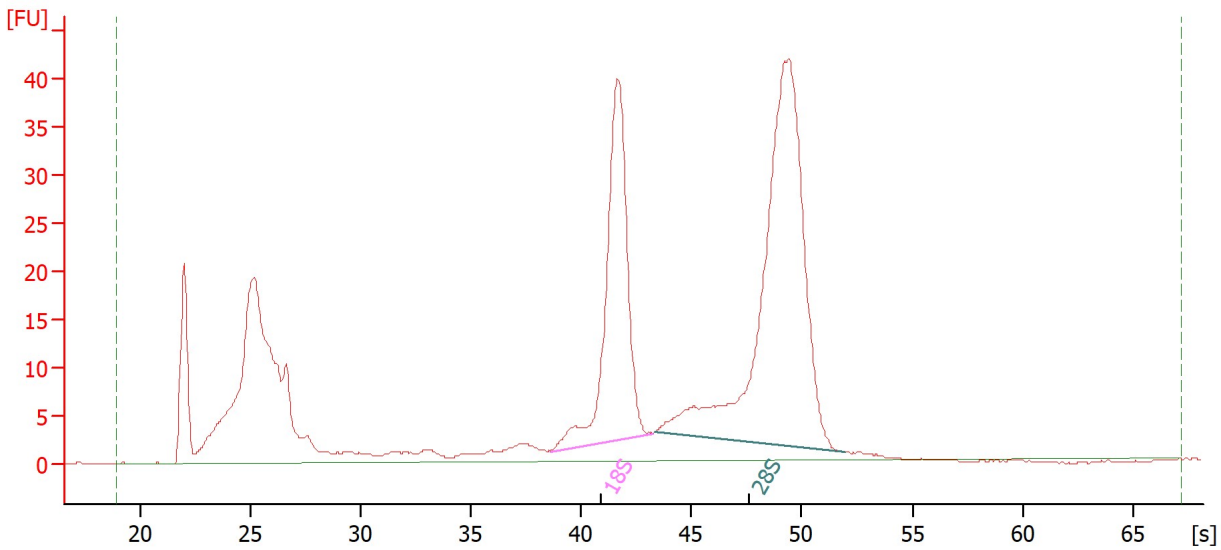


Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electropherogram Summary Continued ...**

H9 Byst 24 PD1 + D0 [ HiSeq2024 #29 ]



**Overall Results for sample 6 : H9 Byst 24 PD1 + D0**

RNA Area:	532.9	RNA Integrity Number (RIN):	9.8 (B.02.10)
RNA Concentration:	2,729 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.80

**Fragment table for sample 6 : H9 Byst 24 PD1 + D0**

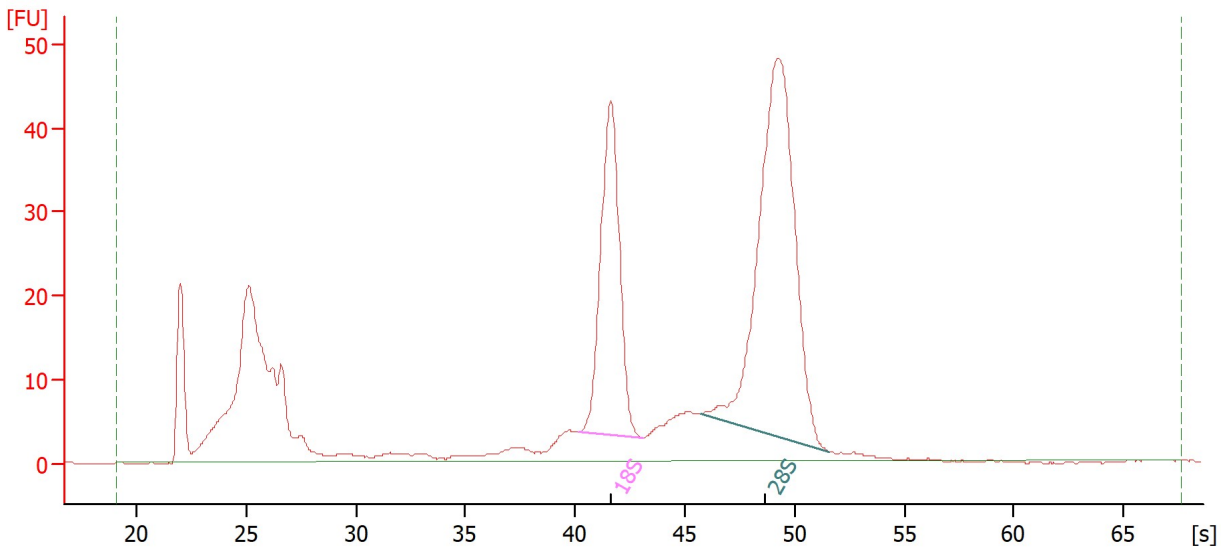
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.60	43.22	98.1	18.4
28S	43.32	51.93	180.1	33.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electropherogram Summary Continued ...**

H10 Byst 24 PD1 - D0 [ HiSeq2024 #30 ]



**Overall Results for sample 7 : H10 Byst 24 PD1 - D0**

RNA Area:	573.6	RNA Integrity Number (RIN):	9.5 (B.02.10)
RNA Concentration:	2,938 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.50

**Fragment table for sample 7 : H10 Byst 24 PD1 - D0**

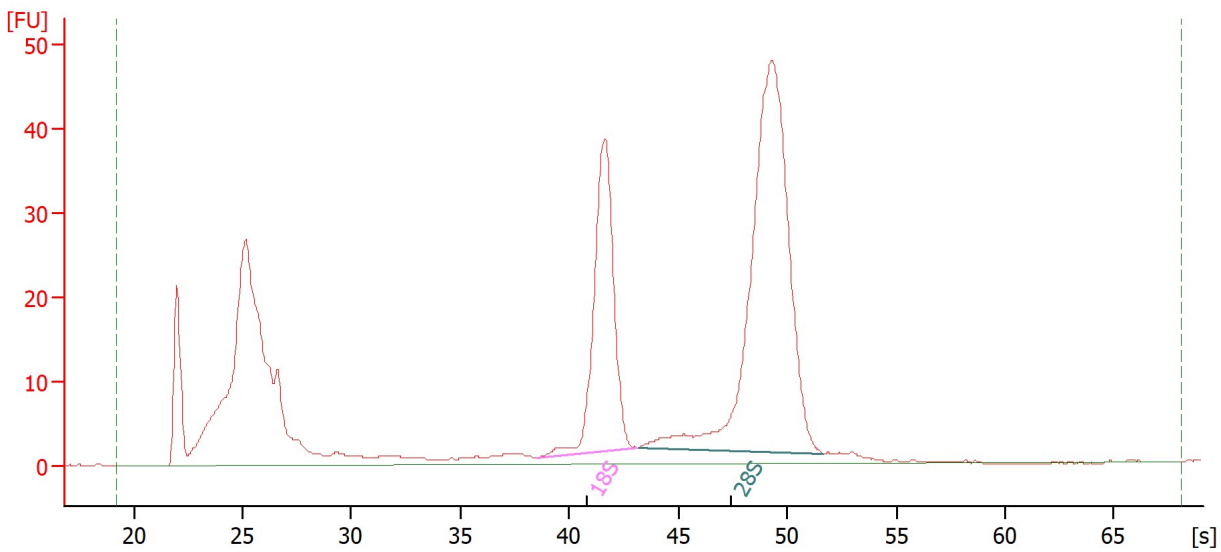
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.13	43.12	95.7	16.7
28S	45.76	51.55	175.6	30.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electropherogram Summary Continued ...**

H11 Byst 24 PD1 + IL2 D3 [ HiSeq2024 #31 ]



**Overall Results for sample 8 : H11 Byst 24 PD1 + IL2 D3**

RNA Area:	570.1	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	2,920 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN N/A

**Fragment table for sample 8 : H11 Byst 24 PD1 + IL2 D3**

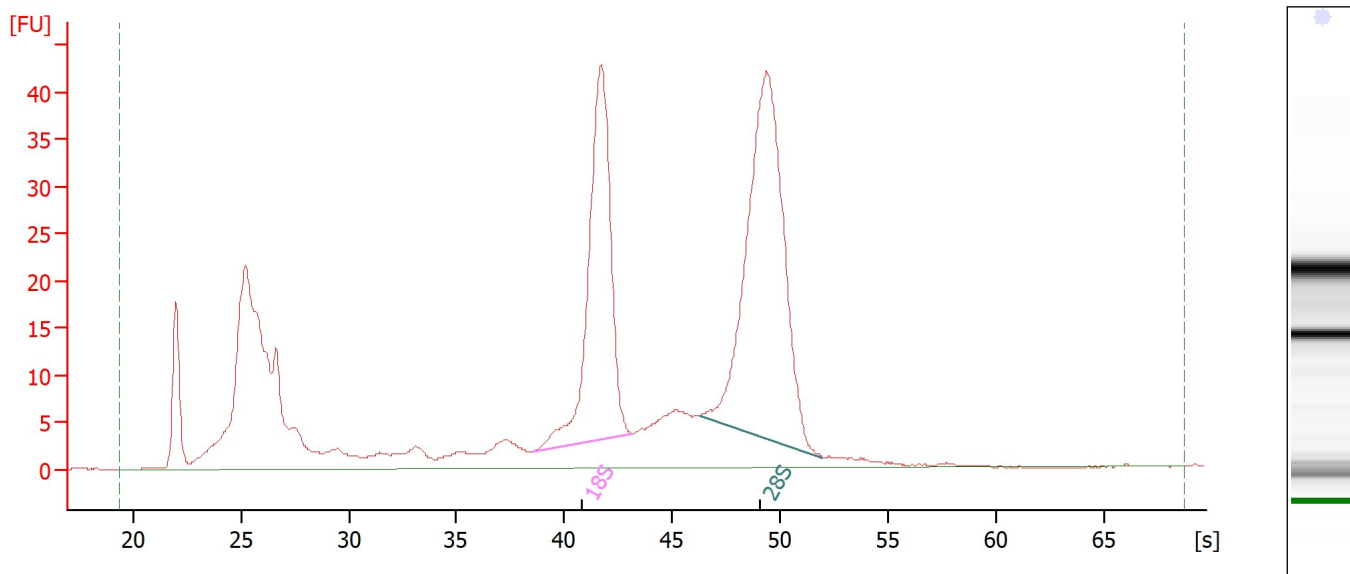
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.48	43.06	93.1	16.3
28S	43.21	51.65	190.4	33.4

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electropherogram Summary Continued ...**

5 PD1+memT Bystander 10 RNA [ HiSeq2024 #33 ]



**Overall Results for sample 9 : 5 PD1+memT Bystander 10 RNA**

RNA Area:	596.4	RNA Integrity Number (RIN):	9.4 (B.02.10)
RNA Concentration:	3,054 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.40

**Fragment table for sample 9 : 5 PD1+memT Bystander 10 RNA**

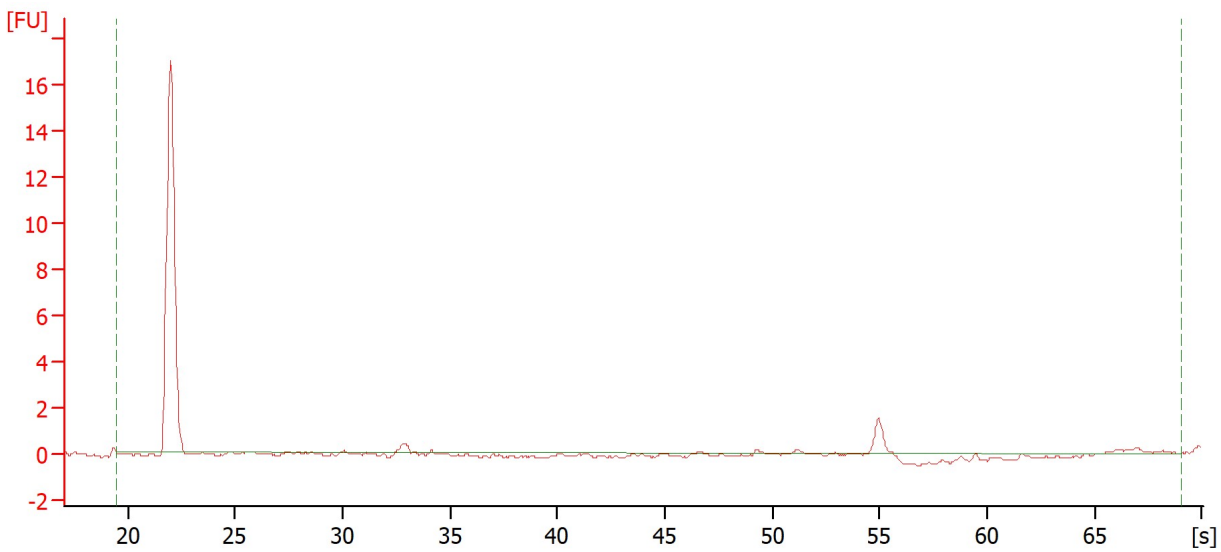
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.48	43.10	112.5	18.9
28S	46.24	51.96	156.1	26.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
Modified: 12/13/2019 3:58:04 PM

**Electropherogram Summary Continued ...**

6 PD1+memT + IL2 Bystander 10 RNA [ HiSeq2024 #34 ]



**Overall Results for sample 10 : 6 PD1+memT + IL2 Bystander 10 RNA**

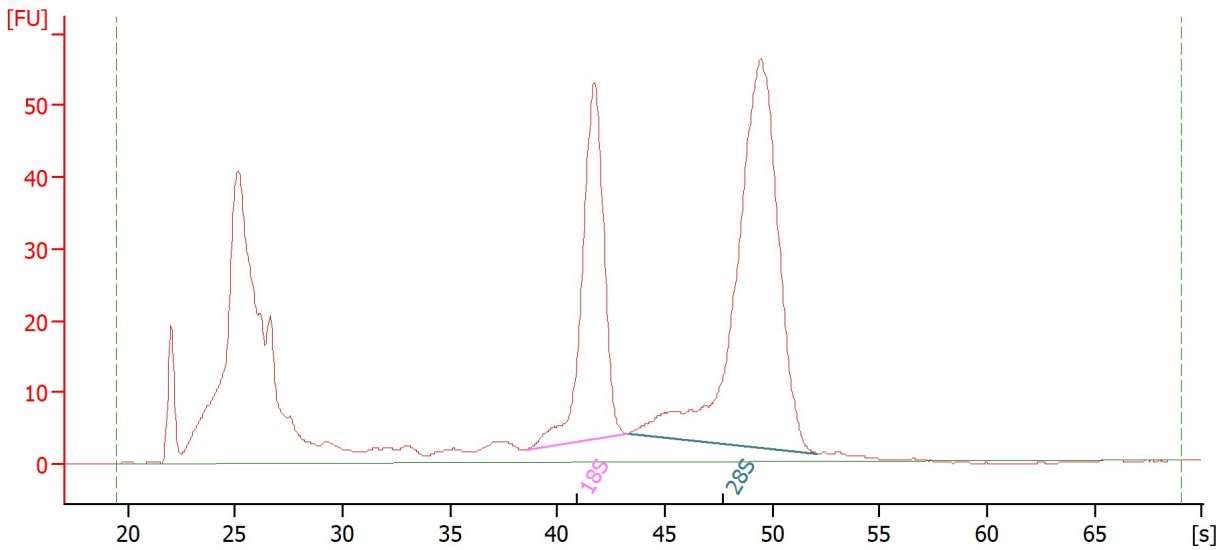
RNA Area:	2.1	RNA Integrity Number (RIN):	1 (B.02.10)
RNA Concentration:	11 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Electropherogram Summary Continued ...**

7 PD1-memT Bystander 10 RNA [ HiSeq2024 #35 ]



**Overall Results for sample 11 : 7 PD1-memT Bystander 10 RNA**

RNA Area:	865.1	RNA Integrity Number (RIN):	9.5 (B.02.10)
RNA Concentration:	4,431 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.50

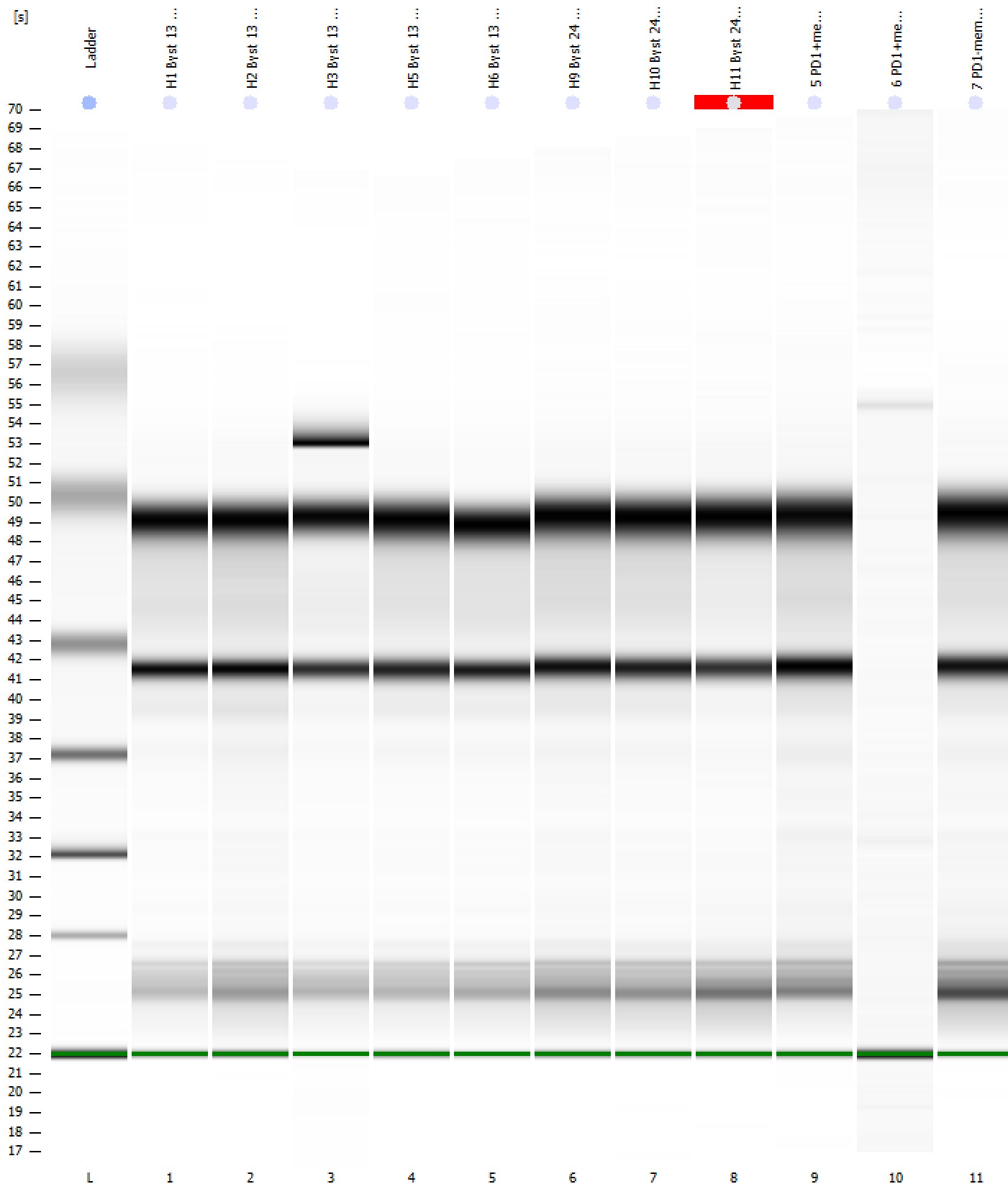
**Fragment table for sample 11 : 7 PD1-memT Bystander 10 RNA**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.55	43.25	139.8	16.2
28S	43.35	52.10	252.3	29.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
Modified: 12/13/2019 3:58:04 PM

Gel Image

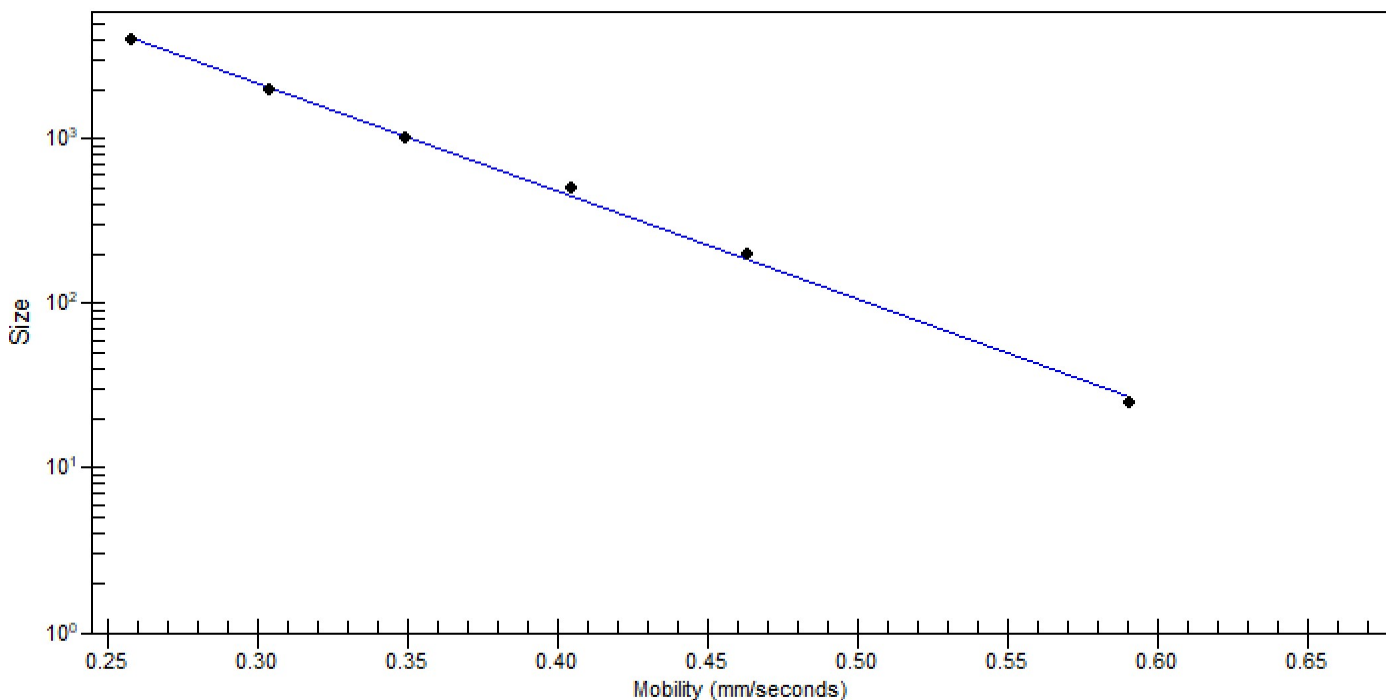


Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
Modified: 12/13/2019 3:58:04 PM

**Curves**

**Standard Curve**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...-13\Bioanalyzer\_Eukaryote Total RNA Pico\_2019-12-13\_004.xad

Created: 12/13/2019 3:35:57 PM  
 Modified: 12/13/2019 3:58:04 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		12/13/2019 3:58:01 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-12-13\Bioanalyzer_Eukaryote Total RNA Pico_2019-12-13_004.xad)		Instrument	Run		12/13/2019 3:36:02 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/13/2019 3:36:02 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/13/2019 3:36:02 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/13/2019 3:36:02 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/13/2019 3:36:02 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/13/2019 3:36:02 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/13/2019 3:36:02 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB