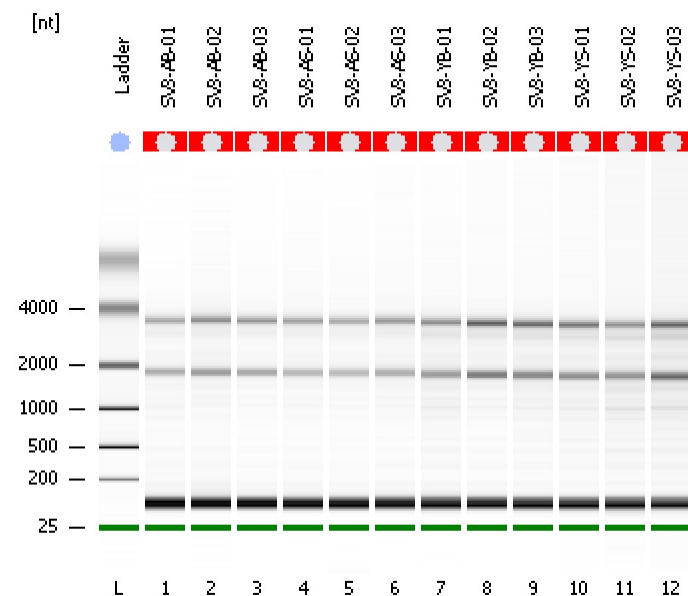


Supplemental file 4: RNA sample quality report. 12 Total RNA samples were assessed by automated gel electrophoresis using Agilent 2100 bioanalyzer (Agilent Tech. Inc.). Each RNA sample was labeled with acronym: SV3-experiment acronym; young sham (YS), young burn (YB), adult sham (AS), and adult burn (AB) groups.

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13804763
Serial#: DE13804763

Firmware: C.01.069
Type: G2939A

Assay Information:

Assay Origin Path: C:\Program Files\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)

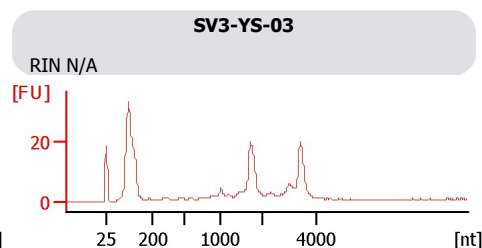
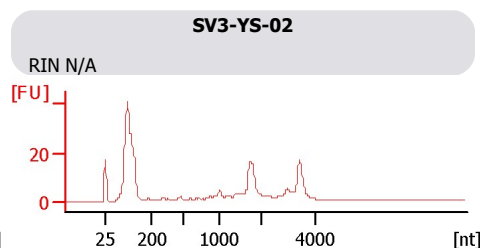
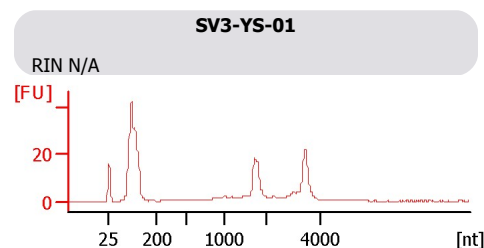
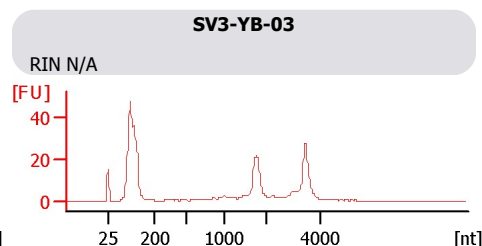
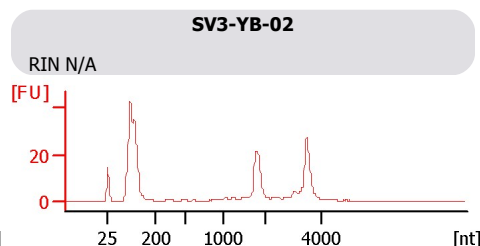
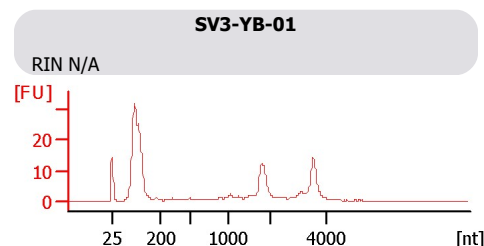
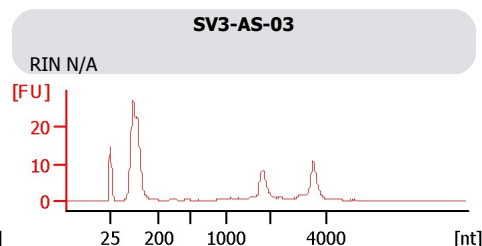
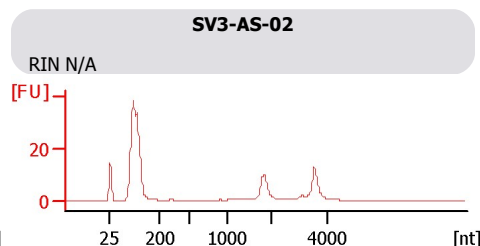
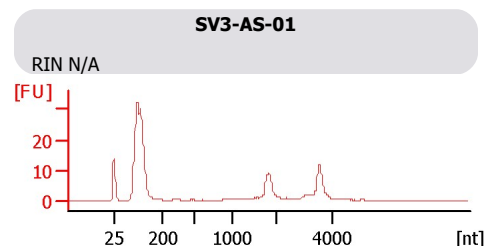
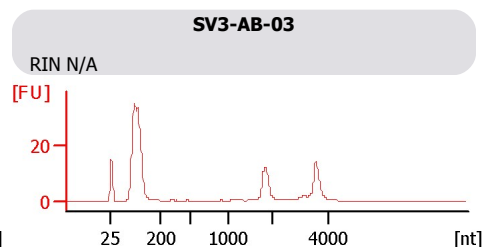
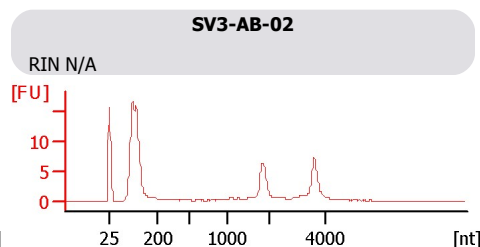
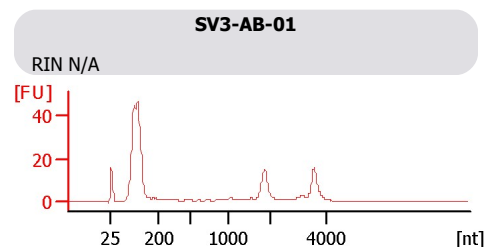
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
SV3-AB-01		✓	RIN N/A	
SV3-AB-02		✓	RIN N/A	
SV3-AB-03		✓	RIN N/A	
SV3-AS-01		✓	RIN N/A	
SV3-AS-02		✓	RIN N/A	
SV3-AS-03		✓	RIN N/A	
SV3-YB-01		✓	RIN N/A	
SV3-YB-02		✓	RIN N/A	
SV3-YB-03		✓	RIN N/A	
SV3-YS-01		✓	RIN N/A	
SV3-YS-02		✓	RIN N/A	
SV3-YS-03		✓	RIN N/A	
Ladder		✓	All Other Samples	

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 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

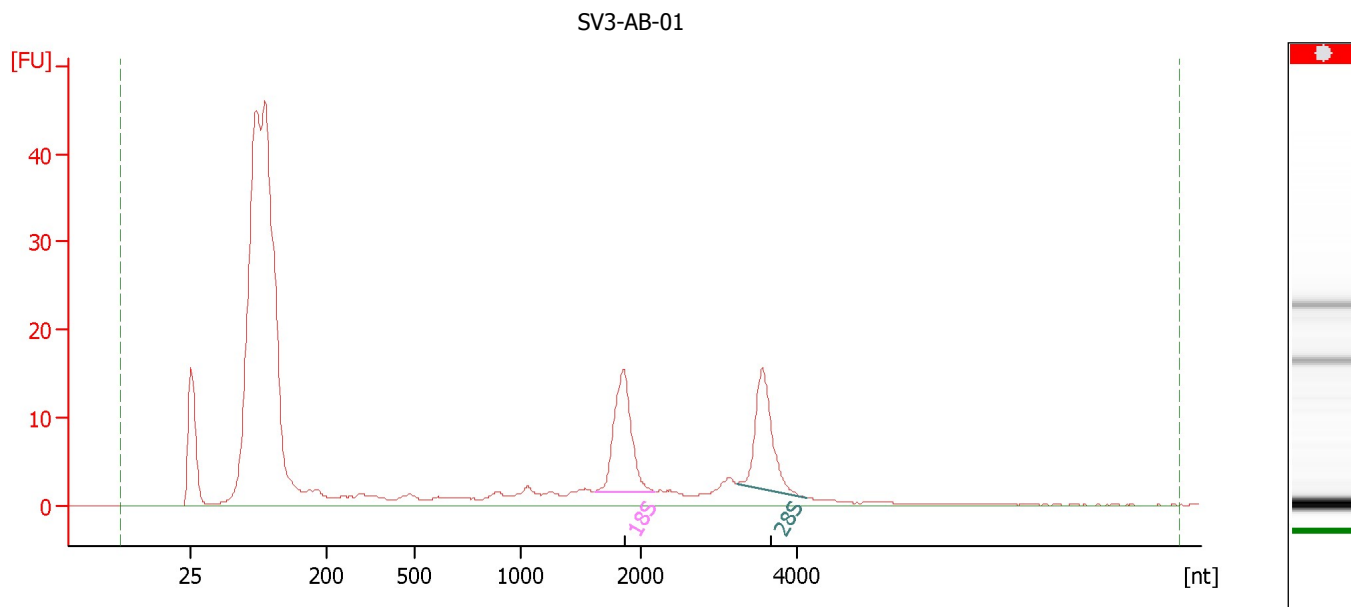
Polynomial Order : 4

Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electropherogram Summary**Overall Results for sample 1 : SV3-AB-01**

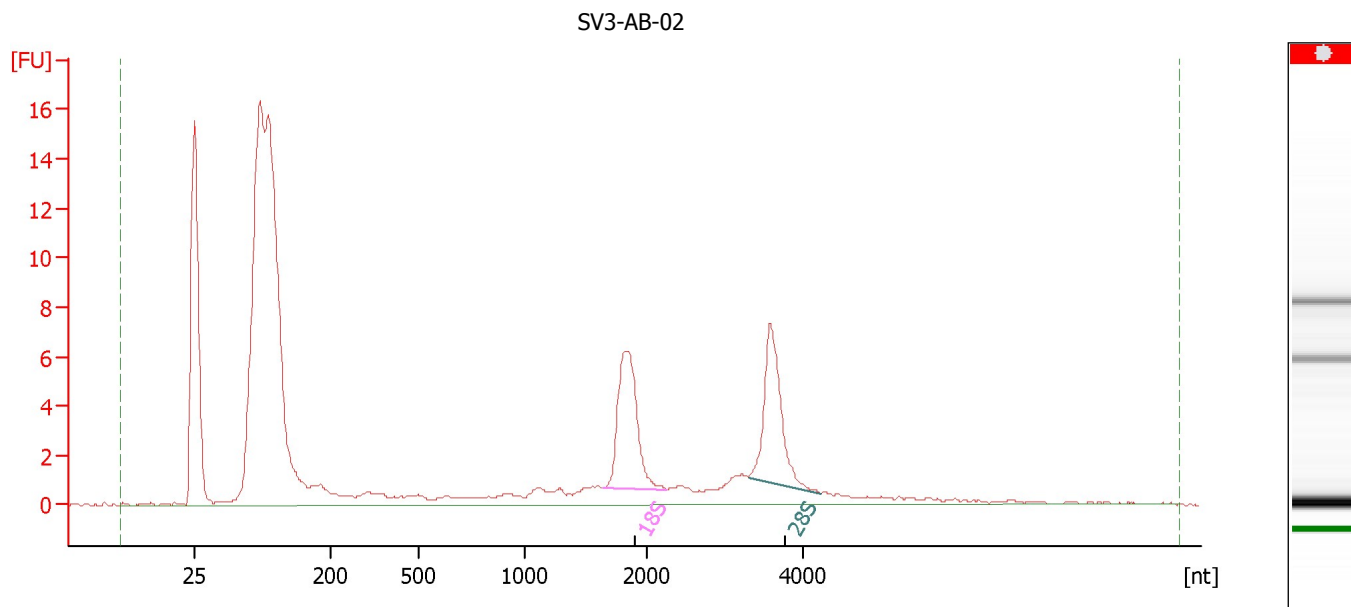
RNA Area:	386.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	339 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	0.8	Result Flagging Label:	RIN N/A

Fragment table for sample 1 : SV3-AB-01

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,617	2,192	29.8	7.7
28S	3,231	4,133	24.9	6.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electropherogram Summary Continued ...**Overall Results for sample 2 : SV3-AB-02**

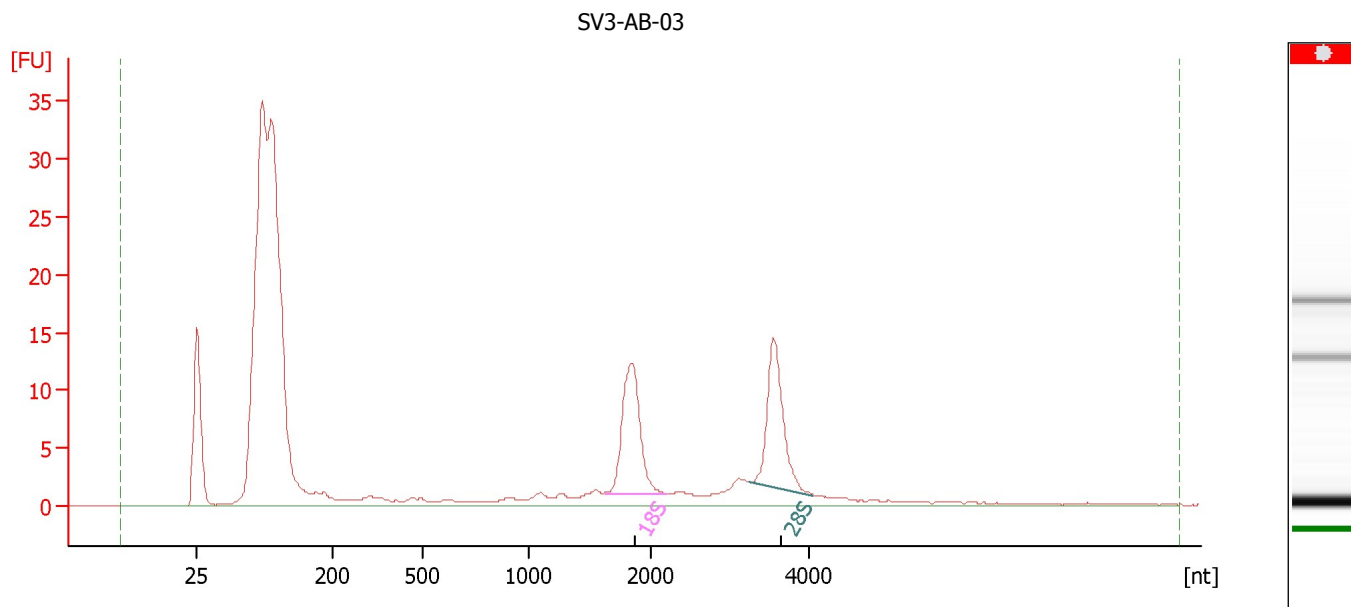
RNA Area:	150.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	132 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	0.9	Result Flagging Label:	RIN N/A

Fragment table for sample 2 : SV3-AB-02

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	2,248	13.4	8.9
28S	3,294	4,217	11.5	7.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electropherogram Summary Continued ...**Overall Results for sample 3 : SV3-AB-03**

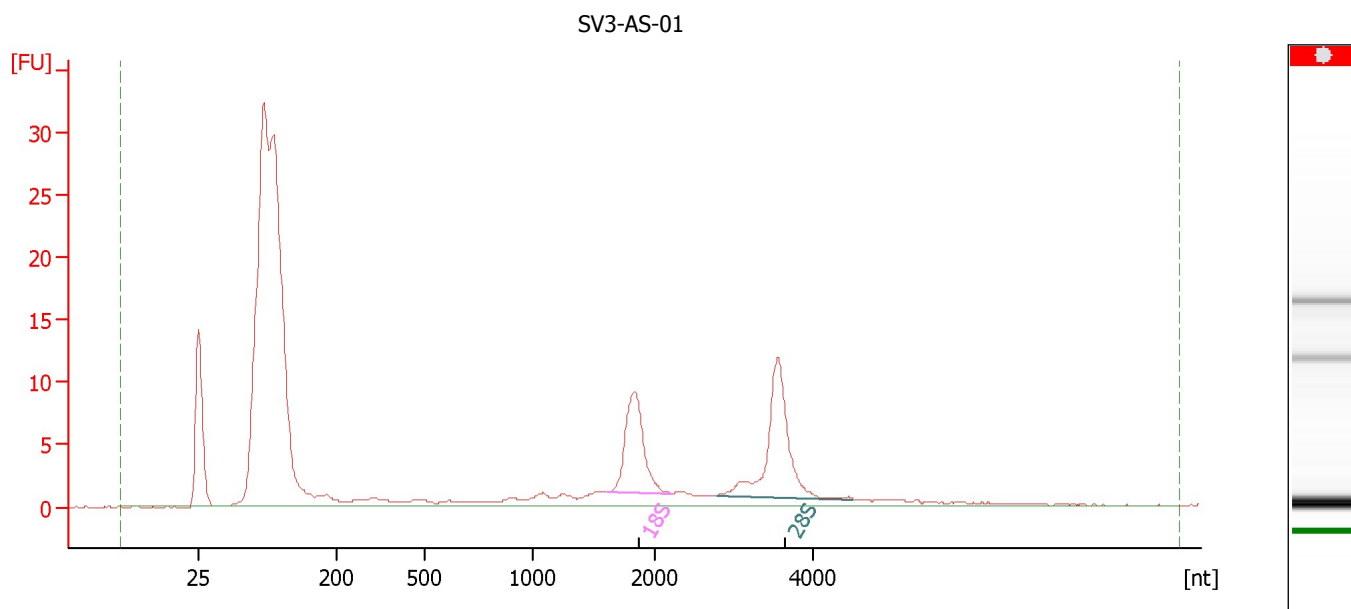
RNA Area:	281.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	247 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	0.9	Result Flagging Label:	RIN N/A

Fragment table for sample 3 : SV3-AB-03

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,616	2,209	25.0	8.9
28S	3,250	4,061	21.9	7.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electropherogram Summary Continued ...**Overall Results for sample 4 : SV3-AS-01**

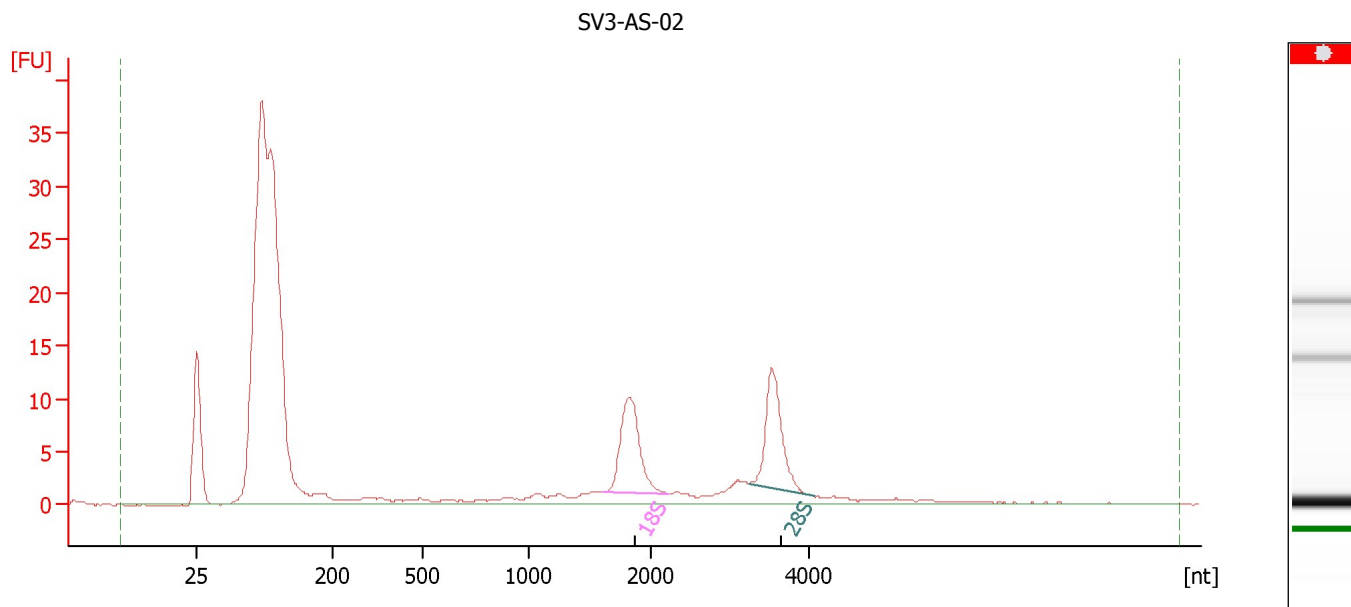
RNA Area:	254.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	223 ng/ μ l	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	1.3	Result Flagging Label:	RIN N/A

Fragment table for sample 4 : SV3-AS-01

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,610	2,223	18.6	7.3
28S	2,789	4,512	24.5	9.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electropherogram Summary Continued ...**Overall Results for sample 5 : SV3-AS-02**

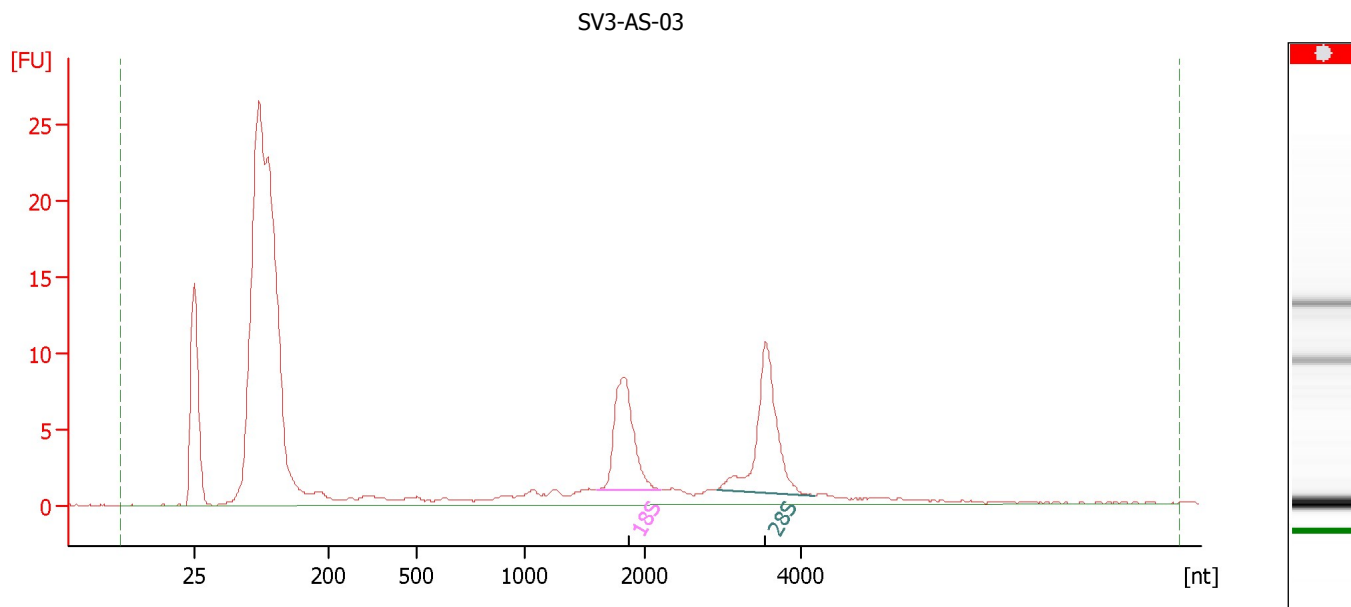
RNA Area:	281.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	247 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	0.9	Result Flagging Label:	RIN N/A

Fragment table for sample 5 : SV3-AS-02

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,607	2,222	21.6	7.7
28S	3,250	4,075	19.5	7.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electropherogram Summary Continued ...**Overall Results for sample 6 : SV3-AS-03**

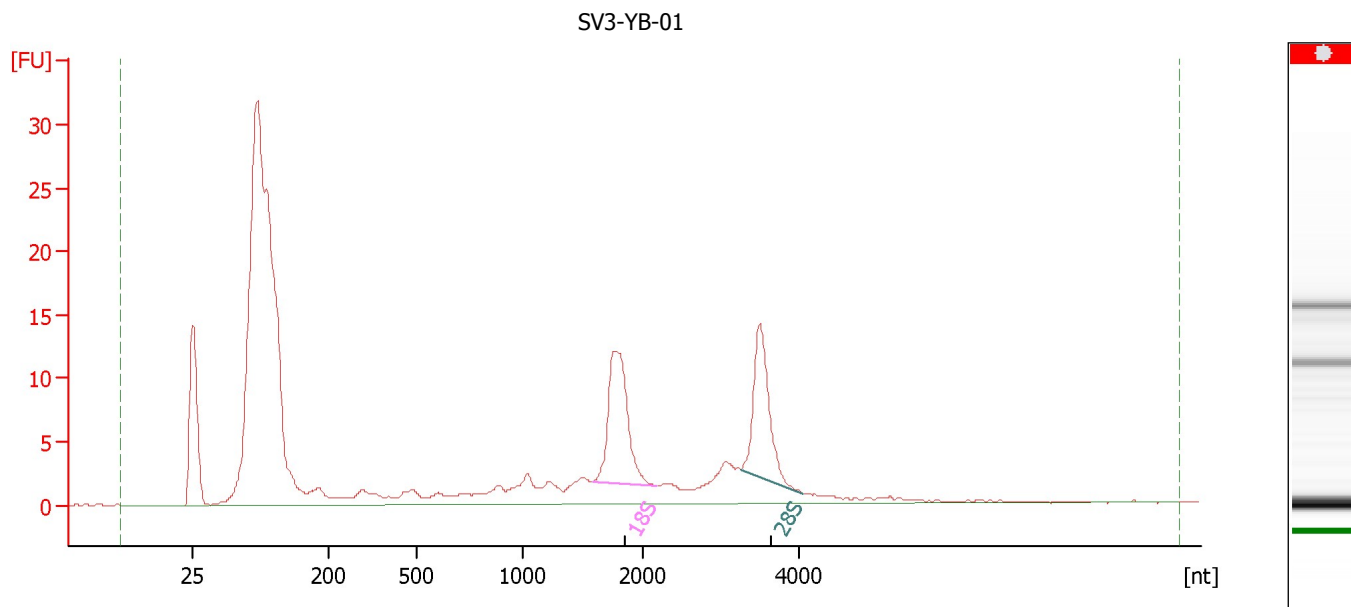
RNA Area:	213.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	187 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	1.2	Result Flagging Label:	RIN N/A

Fragment table for sample 6 : SV3-AS-03

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	2,207	18.0	8.4
28S	2,915	4,167	21.4	10.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electropherogram Summary Continued ...**Overall Results for sample 7 : SV3-YB-01**

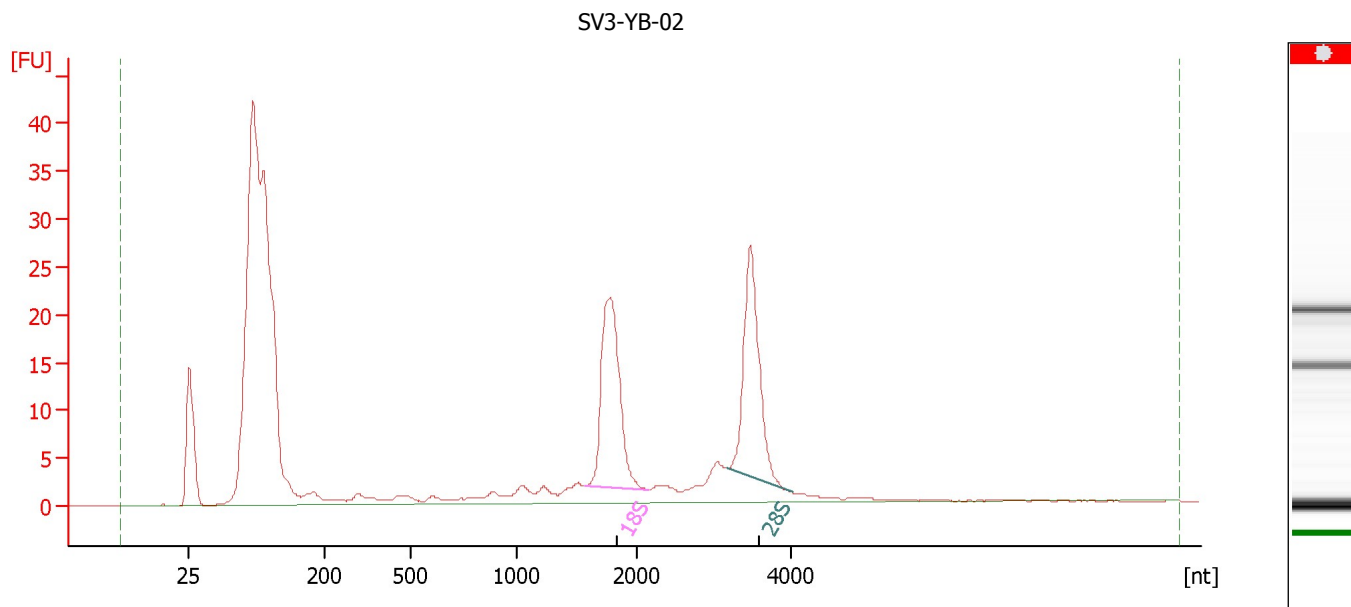
RNA Area:	285.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	250 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	0.8	Result Flagging Label:	RIN N/A

Fragment table for sample 7 : SV3-YB-01

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	2,193	26.0	9.1
28S	3,256	4,061	20.0	7.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electropherogram Summary Continued ...**Overall Results for sample 8 : SV3-YB-02**

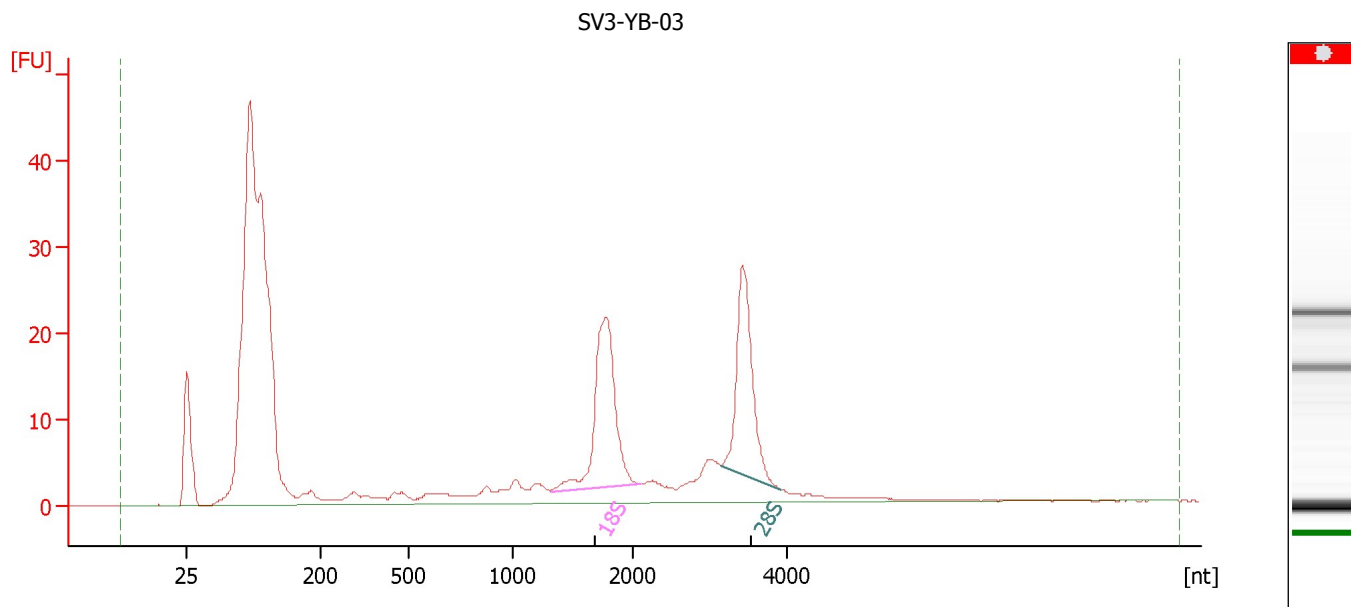
RNA Area:	376.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	330 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	0.9	Result Flagging Label:	RIN N/A

Fragment table for sample 8 : SV3-YB-02

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,569	2,163	46.7	12.4
28S	3,165	4,003	40.8	10.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electropherogram Summary Continued ...**Overall Results for sample 9 : SV3-YB-03**

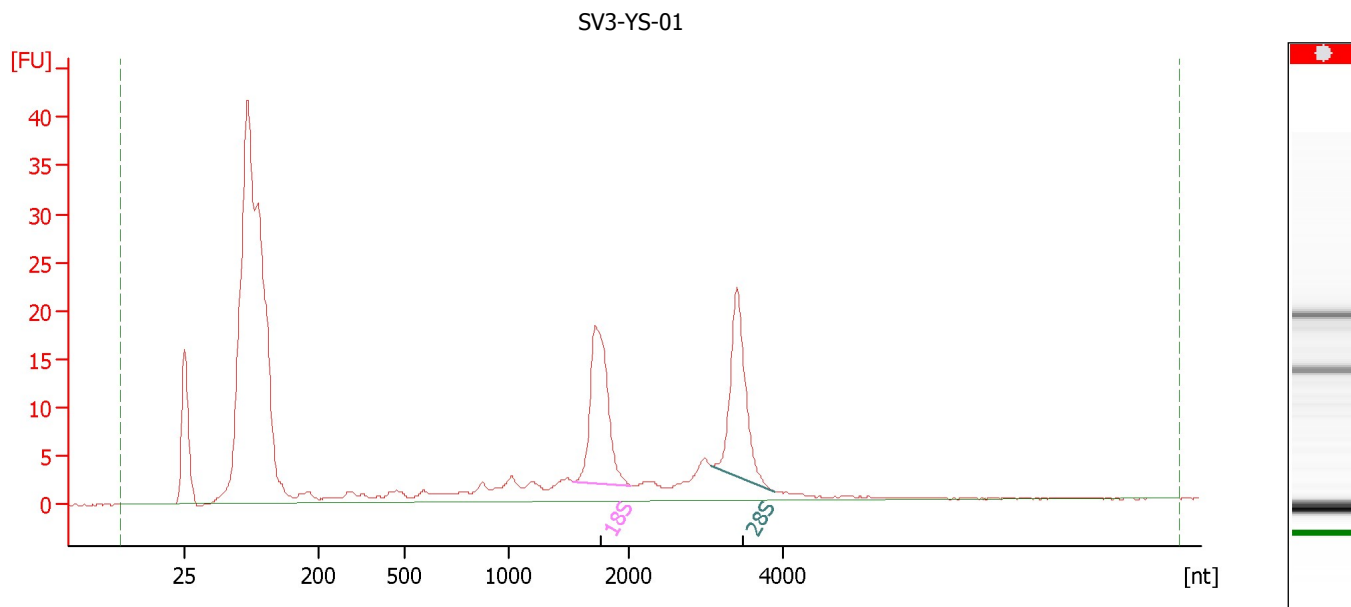
RNA Area:	425.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	374 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	0.8	Result Flagging Label:	RIN N/A

Fragment table for sample 9 : SV3-YB-03

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,314	2,107	51.6	12.1
28S	3,155	3,927	41.6	9.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electropherogram Summary Continued ...**Overall Results for sample 10 : SV3-YS-01**

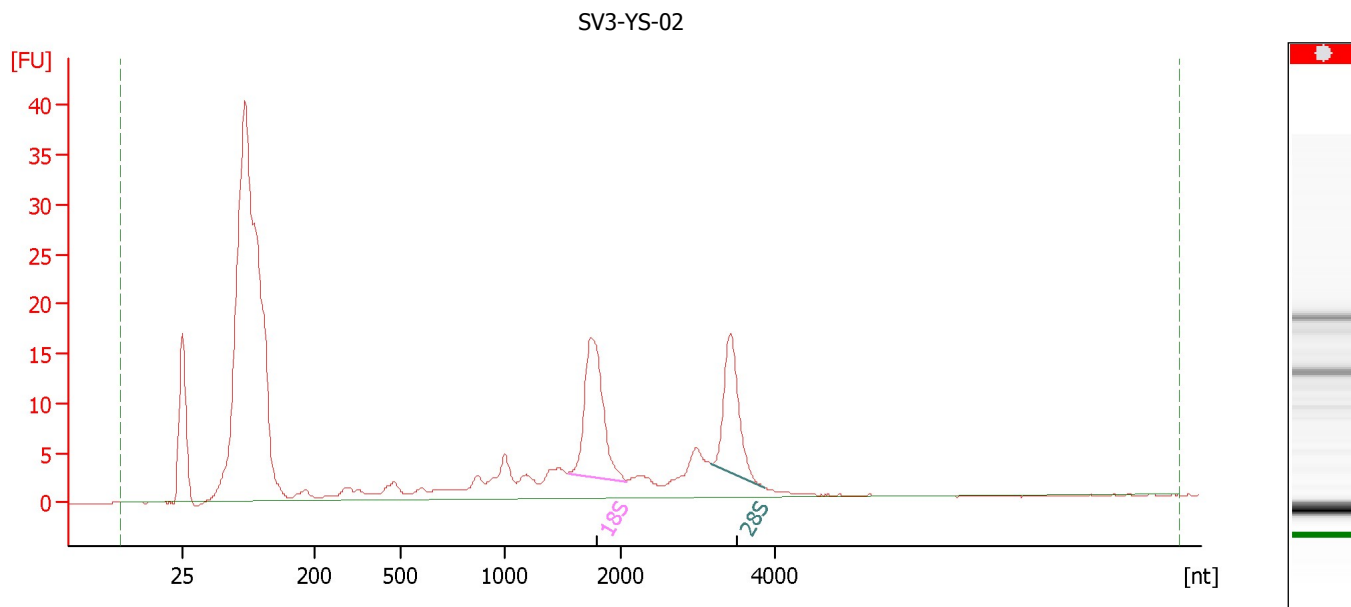
RNA Area:	356.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	313 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	0.9	Result Flagging Label:	RIN N/A

Fragment table for sample 10 : SV3-YS-01

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,536	2,036	37.1	10.4
28S	3,088	3,905	32.7	9.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electropherogram Summary Continued ...**Overall Results for sample 11 : SV3-YS-02**

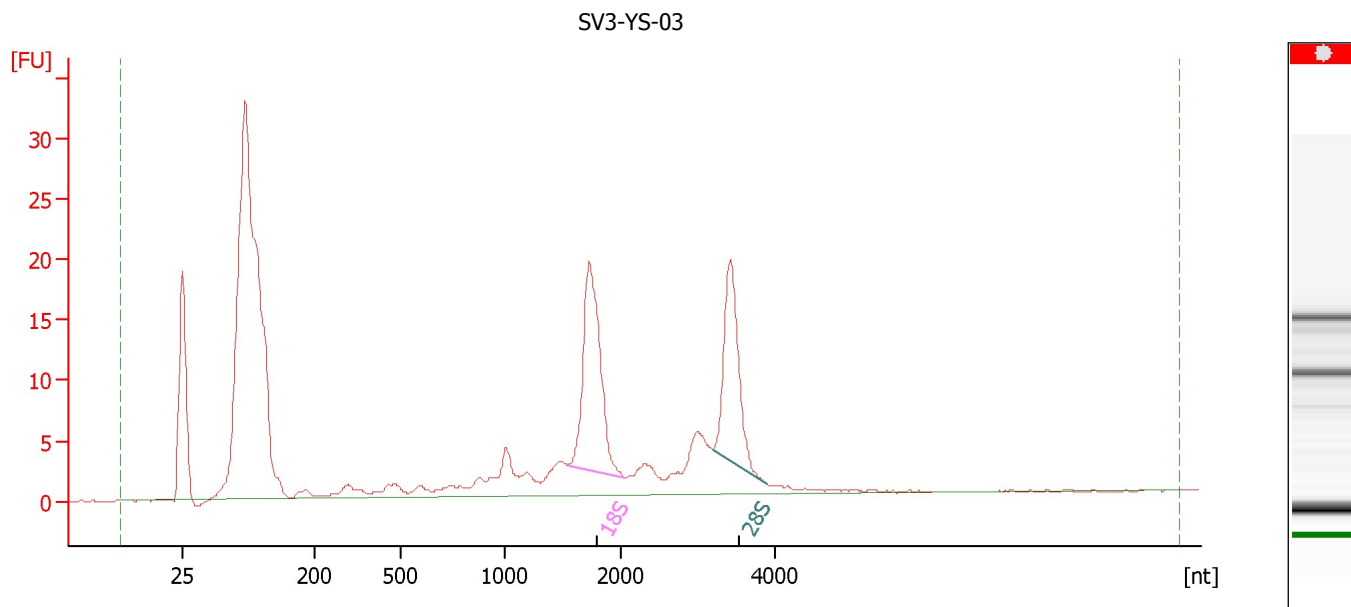
RNA Area:	351.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	309 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	0.7	Result Flagging Label:	RIN N/A

Fragment table for sample 11 : SV3-YS-02

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,548	2,060	33.0	9.4
28S	3,176	3,859	22.9	6.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Electropherogram Summary Continued ...**Overall Results for sample 12 : SV3-YS-03**

RNA Area:	306.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	269 ng/μl	Result Flagging Color:	
rRNA Ratio [28S / 18S]:	0.7	Result Flagging Label:	RIN N/A

Fragment table for sample 12 : SV3-YS-03

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,548	2,046	38.0	12.4
28S	3,190	3,901	27.0	8.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13804763_2020-08-12_11-44-08.xad

Created: 8/12/2020 11:44:08 AM
Modified: 8/12/2020 12:24:19 PM

Gel Image