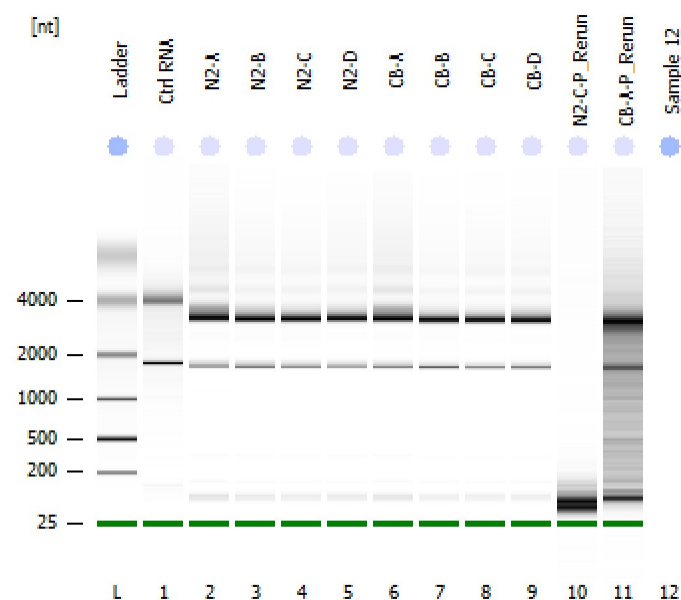


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13805855_2016-12-27_13-56-10.xad

Created: 12/27/2016 1:56:09 PM
Modified: 12/27/2016 2:22:28 PM

Electrophoresis File Run Summary**Instrument Information:**

Instrument Name: DE13805855
Serial#: DE13805855

Firmware: C.01.069
Type: G2939A

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)

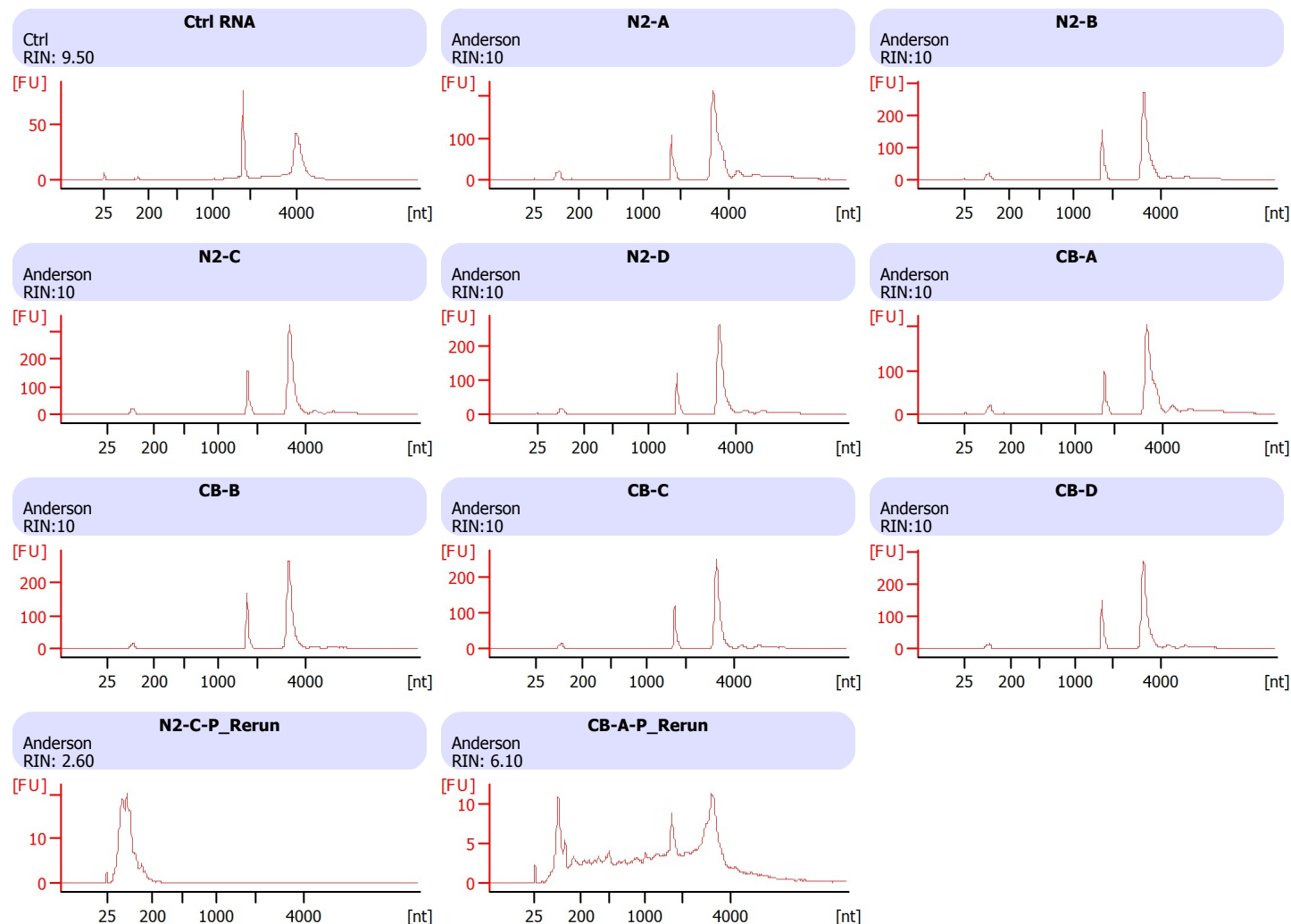
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13805855_2016-12-27_13-56-10.xad

Created: 12/27/2016 1:56:09 PM
Modified: 12/27/2016 2:22:28 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Ctrl RNA	Ctrl	✓	RIN: 9.50	
N2-A	Anderson	✓	RIN:10	
N2-B	Anderson	✓	RIN:10	
N2-C	Anderson	✓	RIN:10	
N2-D	Anderson	✓	RIN:10	
CB-A	Anderson	✓	RIN:10	
CB-B	Anderson	✓	RIN:10	
CB-C	Anderson	✓	RIN:10	
CB-D	Anderson	✓	RIN:10	
N2-C-P_Rerun	Anderson	✓	RIN: 2.60	
CB-A-P_Rerun	Anderson	✓	RIN: 6.10	
Sample 12				
Ladder		✓	All Other Samples	

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...Eukaryote Total RNA Nano_DE13805855_2016-12-27_13-56-10.xad

Created: 12/27/2016 1:56:09 PM
Modified: 12/27/2016 2:22:28 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

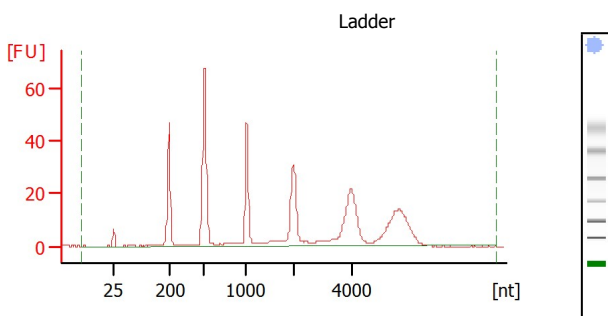
Ladder

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_DE13805855_2016-12-27_13-56-10.xad

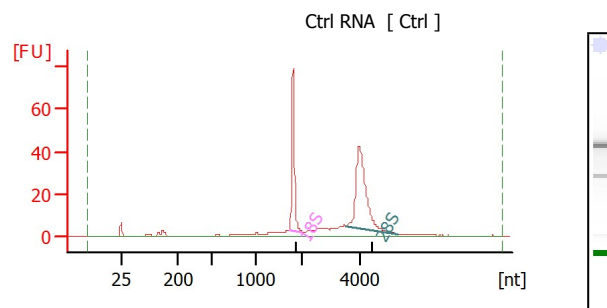
Created: 12/27/2016 1:56:09 PM
 Modified: 12/27/2016 2:22:28 PM

Electropherogram Summary



Overall Results for Ladder

RNA Area: 448.2
 RNA Concentration: 150 ng/μl
 Result Flagging Color:
 Result Flagging Label: All Other Samples

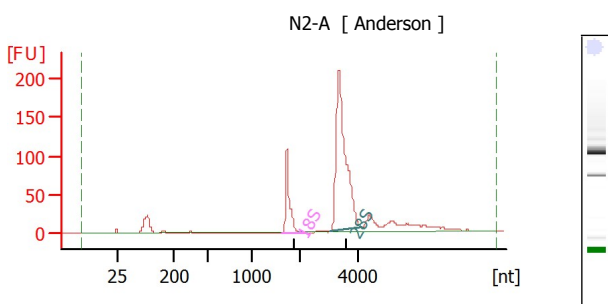


Overall Results for sample 1 : Ctrl RNA

RNA Area: 281.0
 RNA Concentration: 94 ng/μl
 rRNA Ratio [28s / 18s]: 1.6
 RNA Integrity Number (RIN): 9.5 (B.02.08, Anomaly Threshold(s) manually adapted)
 Result Flagging Color:
 Result Flagging Label: RIN: 9.50

Fragment table for sample 1 : Ctrl RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,733	2,032	65.0	23.1
28S	3,530	5,272	101.0	36.0

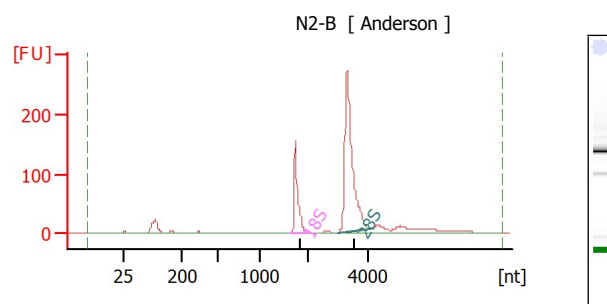


Overall Results for sample 2 : N2-A

RNA Area: 944.0
 RNA Concentration: 316 ng/μl
 rRNA Ratio [28s / 18s]: 4.3
 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
 Result Flagging Color:
 Result Flagging Label: RIN:10

Fragment table for sample 2 : N2-A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,623	2,293	125.5	13.3
28S	3,036	4,135	533.9	56.6



Overall Results for sample 3 : N2-B

RNA Area: 950.4
 RNA Concentration: 318 ng/μl
 rRNA Ratio [28s / 18s]: 3.3
 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
 Result Flagging Color:
 Result Flagging Label: RIN:10

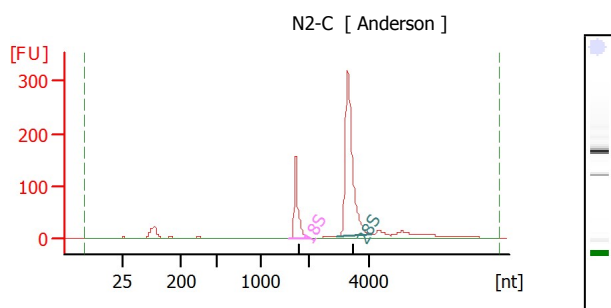
Fragment table for sample 3 : N2-B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	2,140	170.2	17.9
28S	3,018	4,108	556.2	58.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...Eukaryote Total RNA Nano_DE13805855_2016-12-27_13-56-10.xad

Created: 12/27/2016 1:56:09 PM
 Modified: 12/27/2016 2:22:28 PM

Electropherogram Summary Continued ...

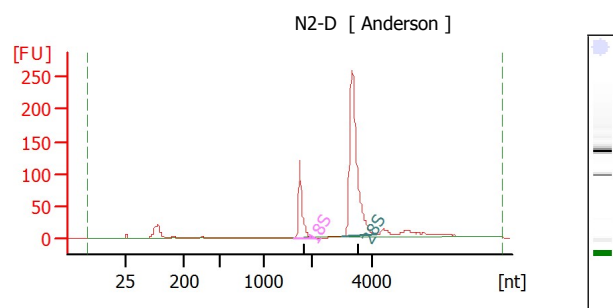


Overall Results for sample 4 : N2-C

RNA Area: 1,017.8
 RNA Concentration: 341 ng/μl
 rRNA Ratio [28s / 18s]: 3.7
 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
 Result Flagging Color:
 Result Flagging Label: RIN:10

Fragment table for sample 4 : N2-C

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	2,115	164.5	16.2
28S	2,944	4,095	603.0	59.3

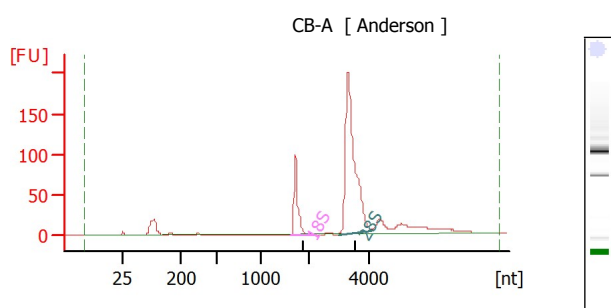


Overall Results for sample 5 : N2-D

RNA Area: 834.8
 RNA Concentration: 279 ng/μl
 rRNA Ratio [28s / 18s]: 4.0
 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
 Result Flagging Color:
 Result Flagging Label: RIN:10

Fragment table for sample 5 : N2-D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,602	2,102	124.9	15.0
28S	2,999	4,106	502.8	60.2

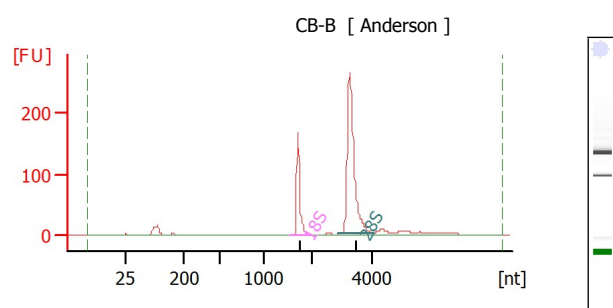


Overall Results for sample 6 : CB-A

RNA Area: 825.1
 RNA Concentration: 276 ng/μl
 rRNA Ratio [28s / 18s]: 4.4
 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
 Result Flagging Color:
 Result Flagging Label: RIN:10

Fragment table for sample 6 : CB-A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	2,270	108.2	13.1
28S	3,000	4,095	474.0	57.4



Overall Results for sample 7 : CB-B

RNA Area: 812.4
 RNA Concentration: 272 ng/μl
 rRNA Ratio [28s / 18s]: 3.2
 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
 Result Flagging Color:
 Result Flagging Label: RIN:10

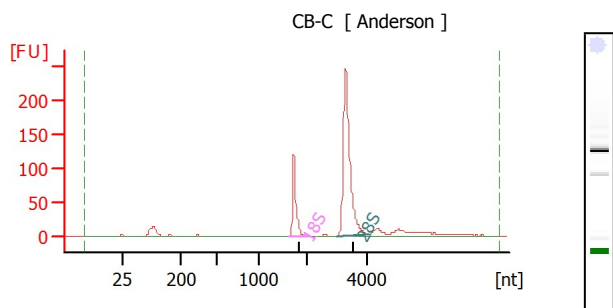
Fragment table for sample 7 : CB-B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,565	2,003	149.3	18.4
28S	2,916	4,095	480.1	59.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...Eukaryote Total RNA Nano_DE13805855_2016-12-27_13-56-10.xad

Created: 12/27/2016 1:56:09 PM
 Modified: 12/27/2016 2:22:28 PM

Electropherogram Summary Continued ...

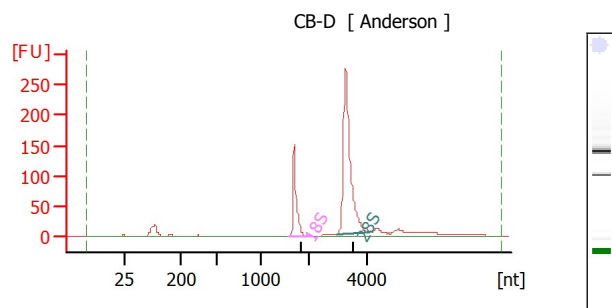


Overall Results for sample 8 : CB-C

RNA Area: 716.0
 RNA Concentration: 240 ng/μl
 rRNA Ratio [28s / 18s]: 3.7
 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
 Result Flagging Color:
 Result Flagging Label: RIN:10

Fragment table for sample 8 : CB-C

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,590	2,072	116.0	16.2
28S	2,959	4,042	433.8	60.6



Overall Results for sample 9 : CB-D

RNA Area: 894.6
 RNA Concentration: 299 ng/μl
 rRNA Ratio [28s / 18s]: 3.4
 RNA Integrity Number (RIN): 10 (B.02.08, Anomaly Threshold(s) manually adapted)
 Result Flagging Color:
 Result Flagging Label: RIN:10

Fragment table for sample 9 : CB-D

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,595	2,155	153.5	17.2
28S	2,960	4,062	526.8	58.9