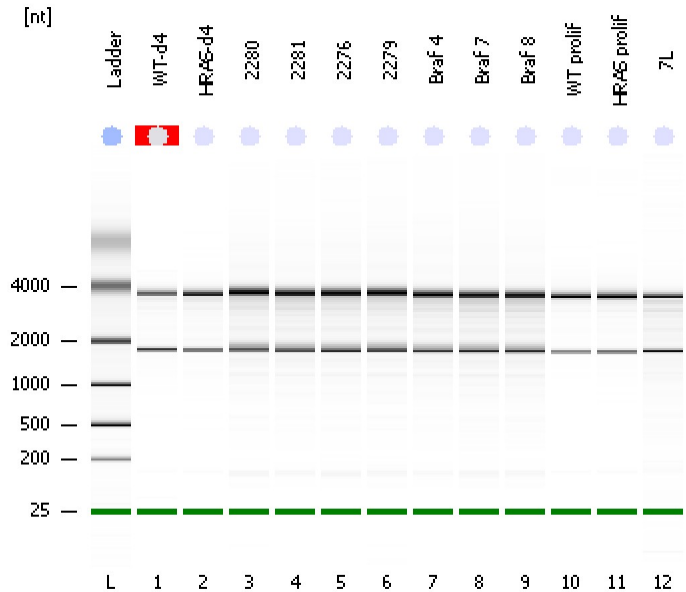


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electrophoresis File Run Summary



Instrument Information:

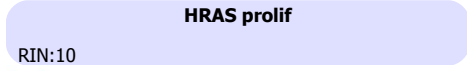
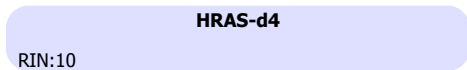
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
 Modified: 8/21/2014 3:20:57 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
WT-d4		✓	RIN N/A	
HRAS-d4		✓	RIN:10	
2280		✓	RIN: 9.80	
2281		✓	RIN: 9.60	
2276		✓	RIN: 9.80	
2279		✓	RIN: 9.70	
Braf 4		✓	RIN: 9.60	
Braf 7		✓	RIN: 9.30	
Braf 8		✓	RIN: 9.40	
WT prolifer		✓	RIN:10	
HRAS prolifer		✓	RIN:10	
7L		✓	RIN: 8.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ μ l] : 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

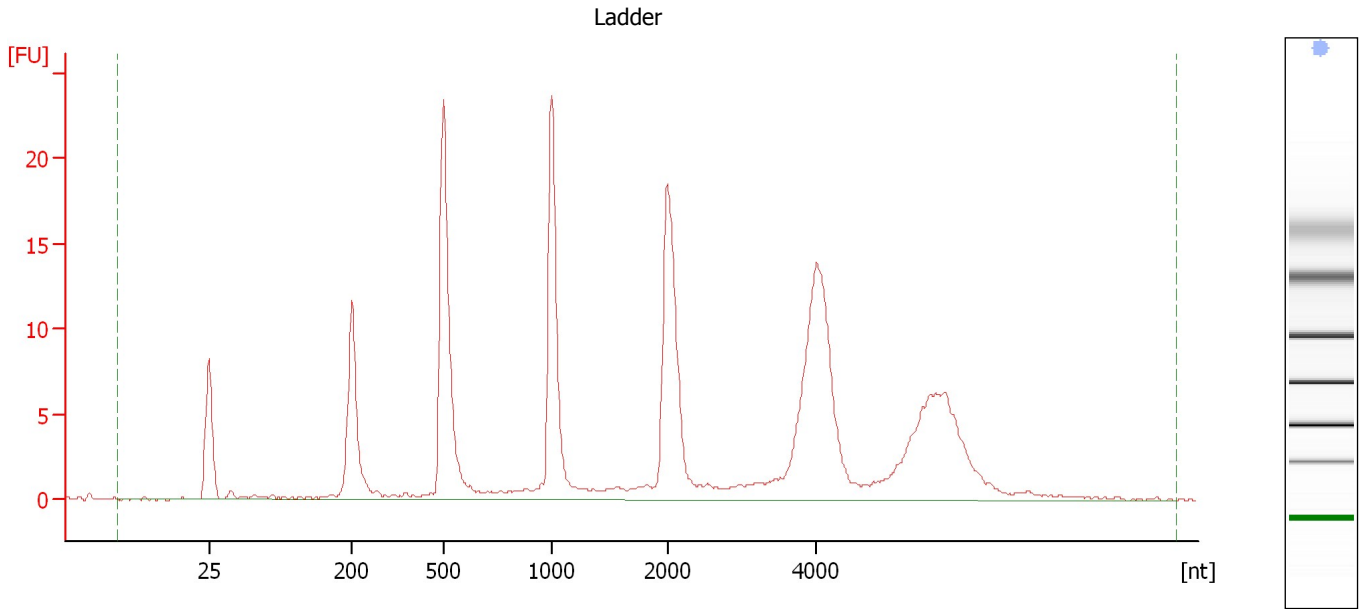
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary



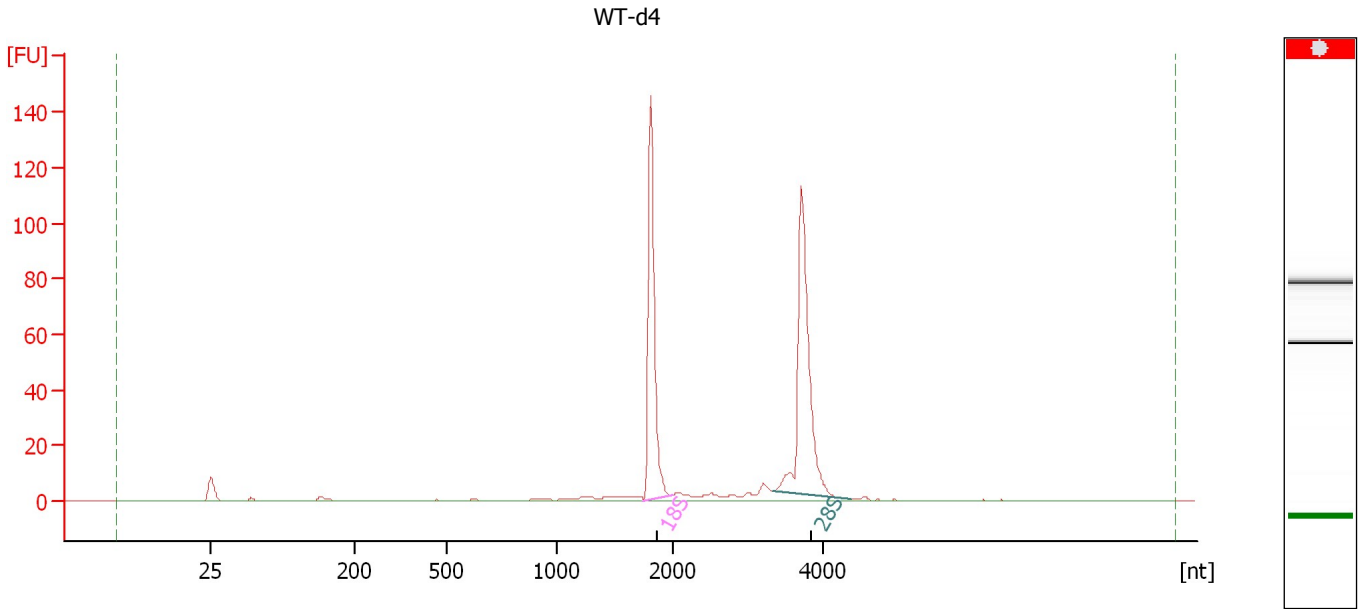
Overall Results for Ladder

RNA Area:	208.3	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : WT-d4

RNA Area:	312.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	225 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN N/A

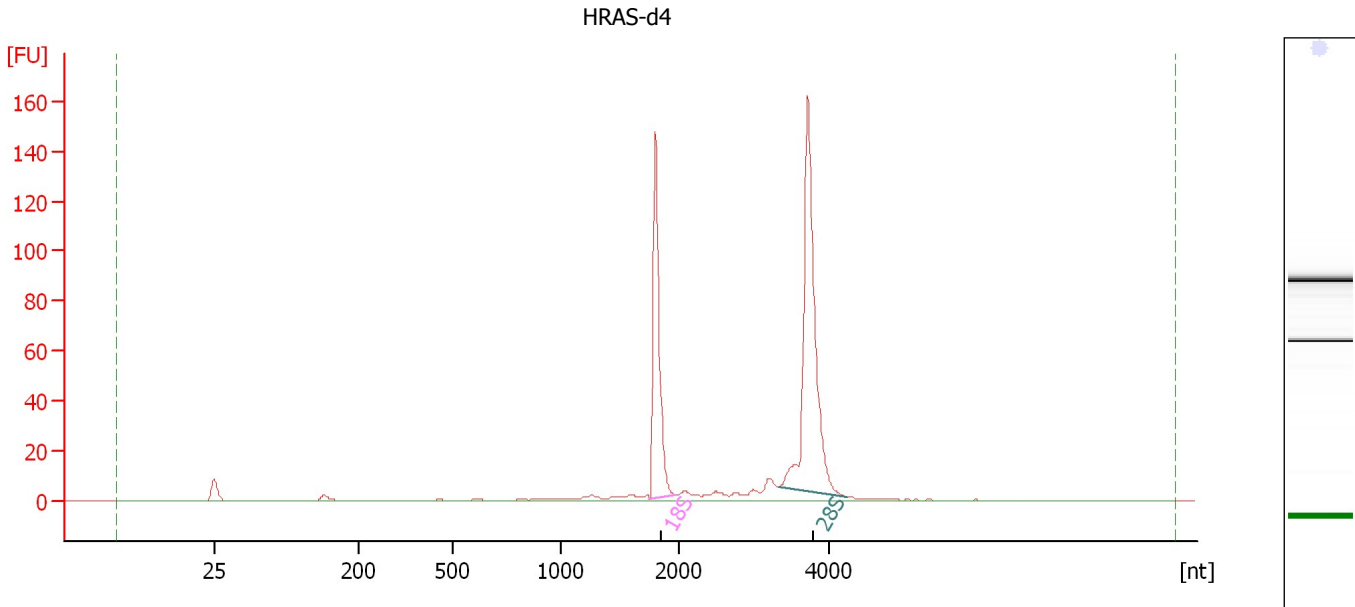
Fragment table for sample 1 : WT-d4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,754	2,004	113.6	36.3
28S	3,338	4,374	124.0	39.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HRAS-d4

RNA Area: 394.4 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 284 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN:10

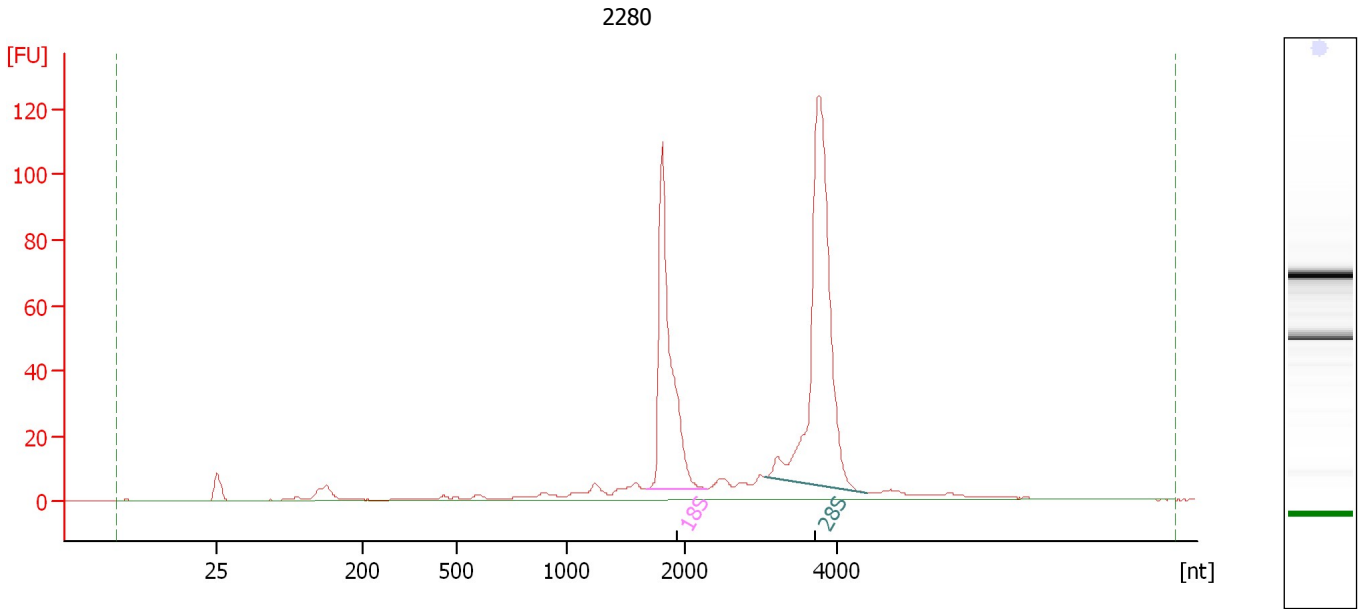
Fragment table for sample 2 : HRAS-d4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,749	1,977	109.5	27.8
28S	3,320	4,237	183.1	46.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 2280

RNA Area:	555.8	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	400 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.80

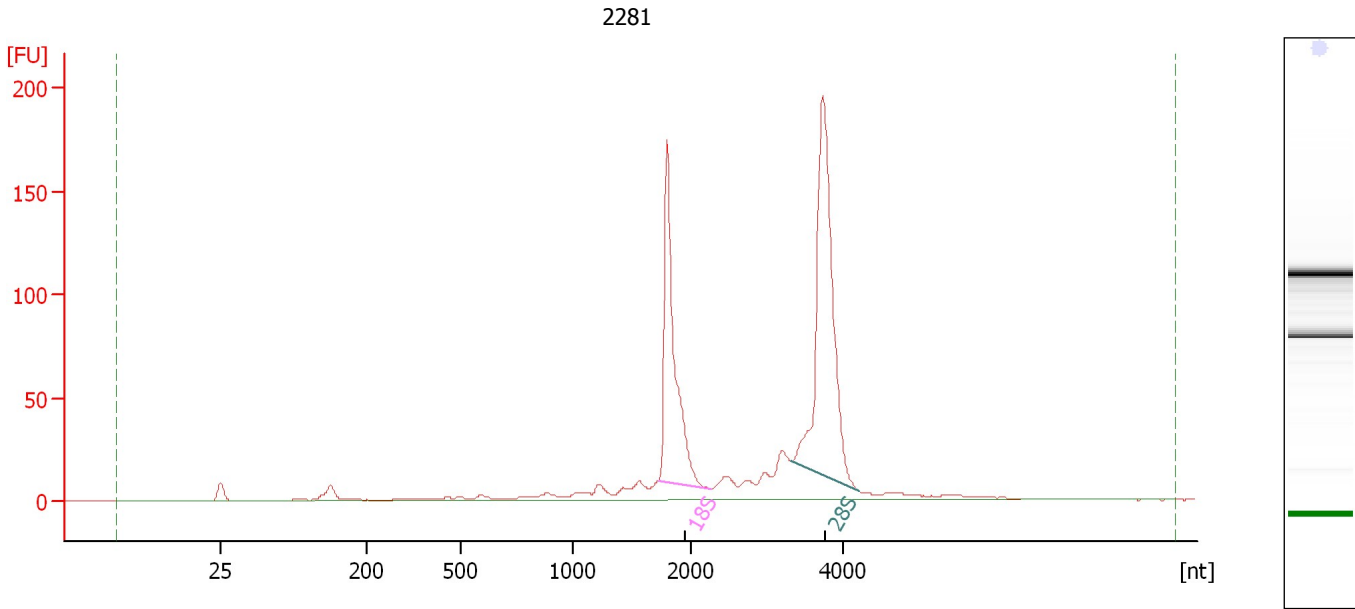
Fragment table for sample 3 : 2280

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,671	2,292	139.0	25.0
28S	3,063	4,381	229.4	41.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 2281

RNA Area:	825.5	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	595 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.60

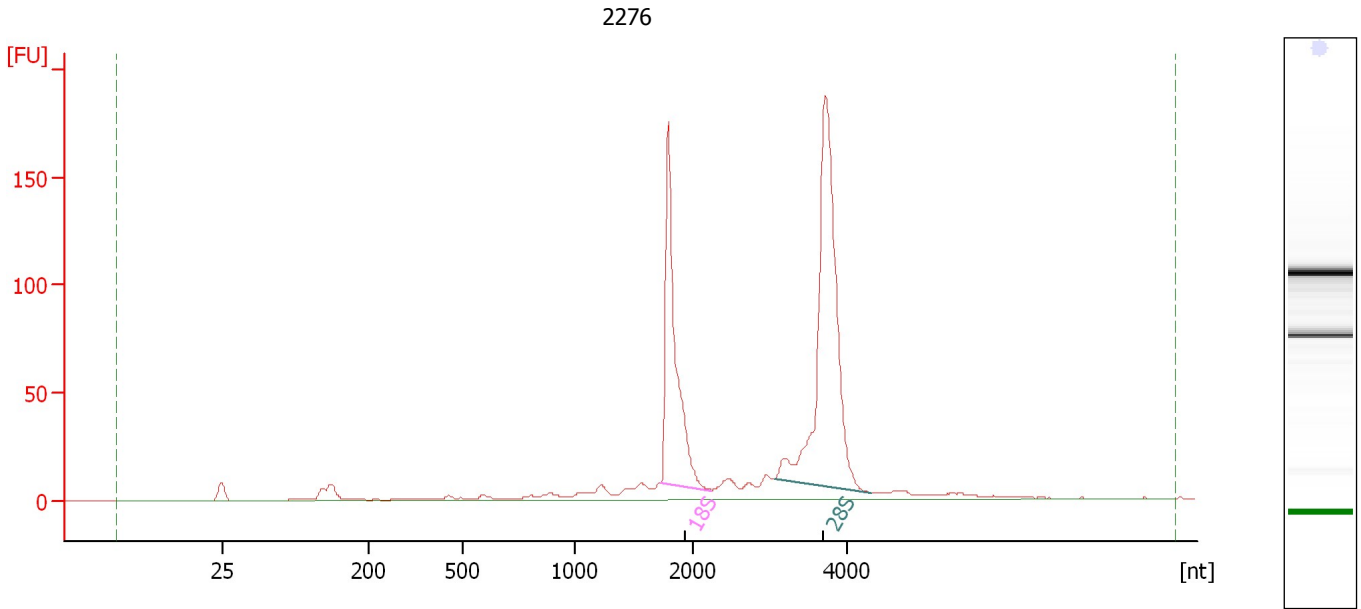
Fragment table for sample 4 : 2281

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,739	2,253	200.8	24.3
28S	3,312	4,203	299.7	36.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 2276

RNA Area: 811.2 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 584 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.80

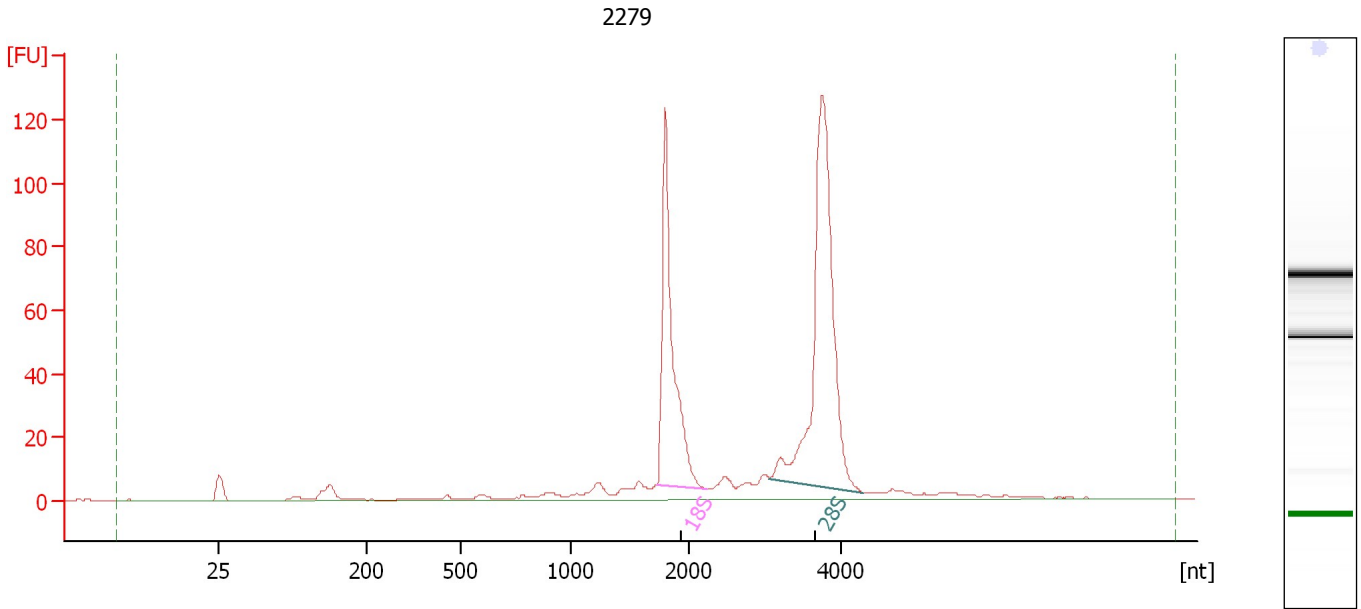
Fragment table for sample 5 : 2276

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,731	2,239	198.5	24.5
28S	3,060	4,325	341.5	42.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 2279

RNA Area:	570.7	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	411 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.70

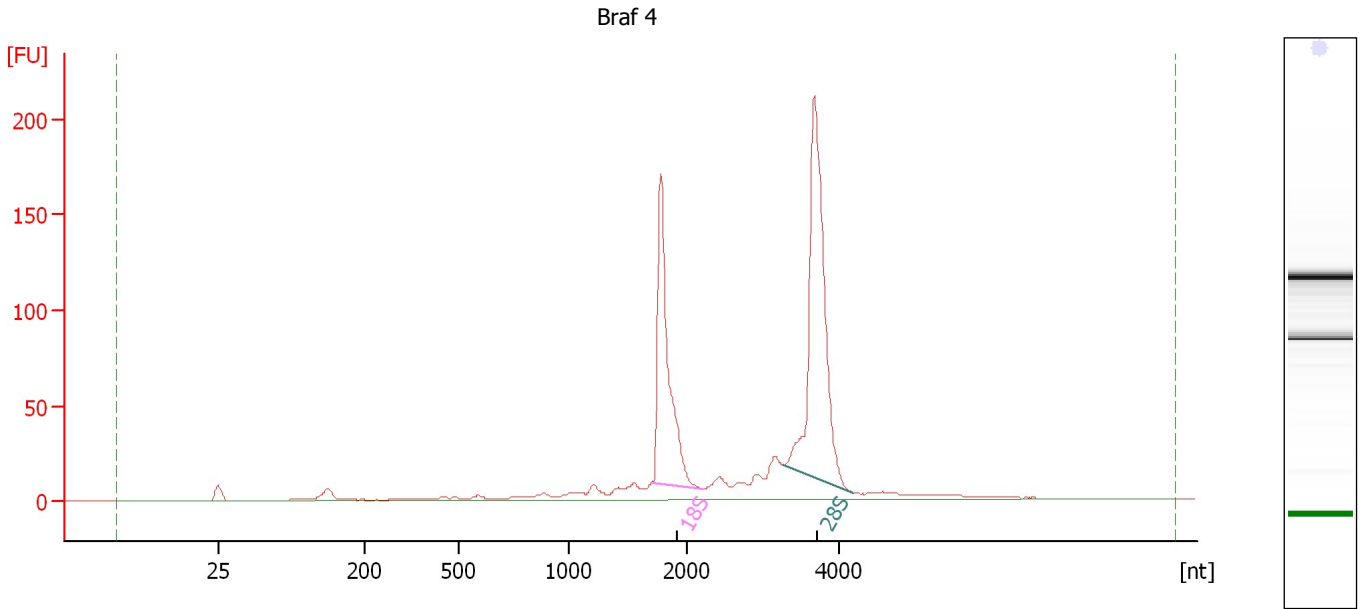
Fragment table for sample 6 : 2279

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,738	2,252	144.3	25.3
28S	3,062	4,276	235.9	41.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Braf 4

RNA Area:	831.9	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	599 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.60

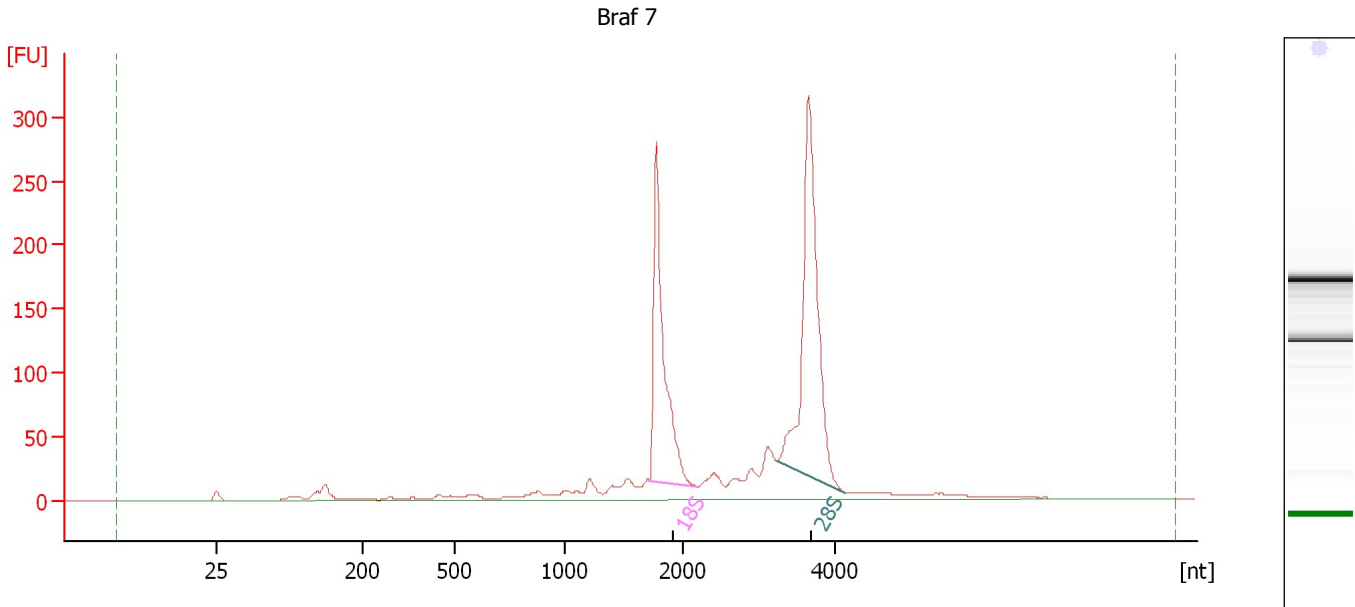
Fragment table for sample 7 : Braf 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,718	2,209	196.2	23.6
28S	3,272	4,168	311.6	37.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Braf 7

RNA Area:	1,350.2	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	972 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.30

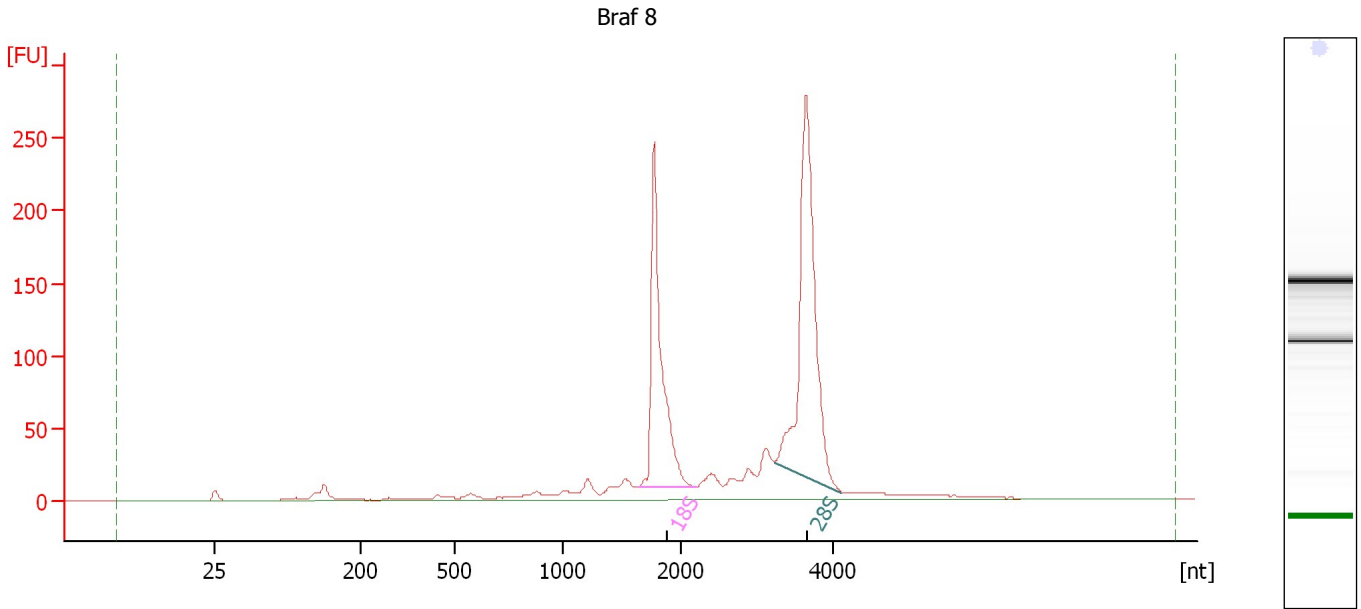
Fragment table for sample 8 : Braf 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,715	2,207	313.4	23.2
28S	3,247	4,132	455.0	33.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
 Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Braf 8

RNA Area:	1,198.6	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	863 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.40

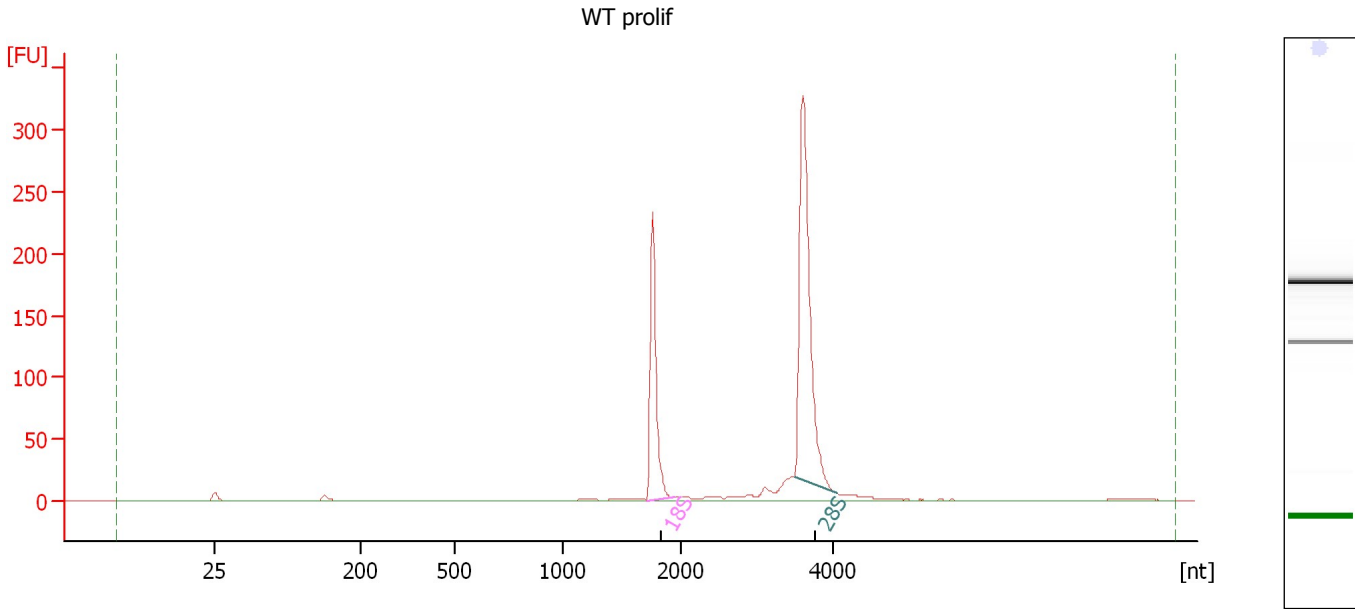
Fragment table for sample 9 : Braf 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,641	2,206	289.1	24.1
28S	3,234	4,121	409.6	34.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : WT prolifer

RNA Area: 648.2 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 467 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN:10

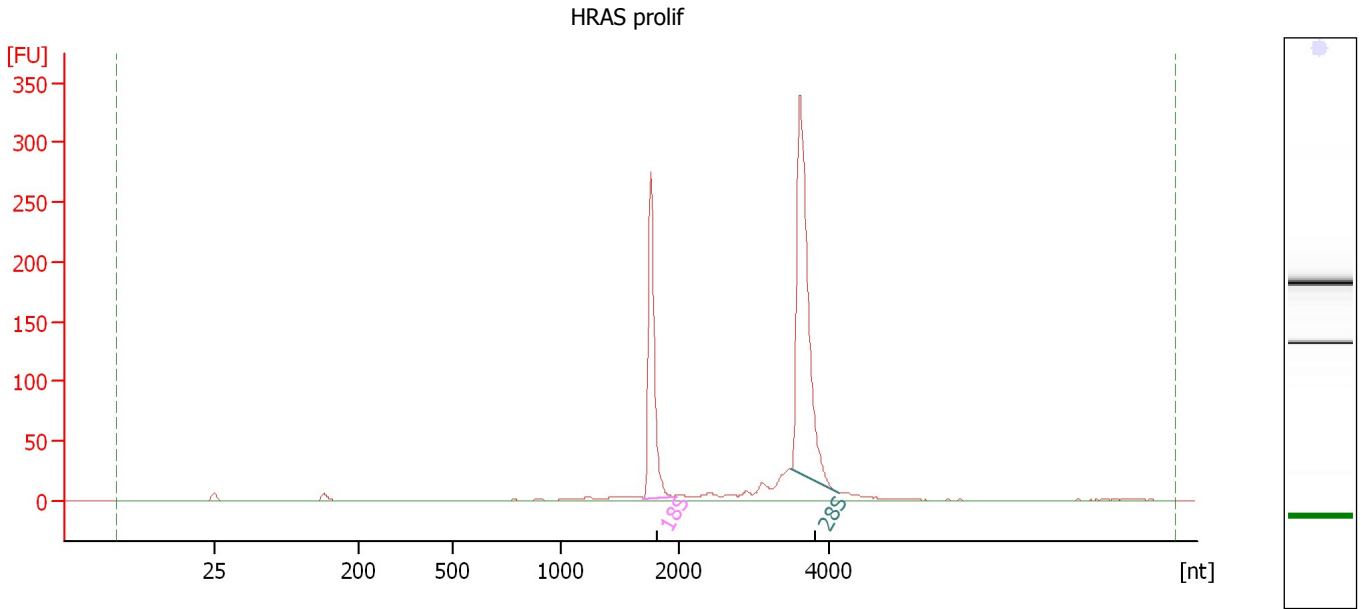
Fragment table for sample 10 : WT prolifer

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	1,960	173.7	26.8
28S	3,501	4,050	324.7	50.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : HRAS prolifer

RNA Area: 804.8 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 580 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN:10

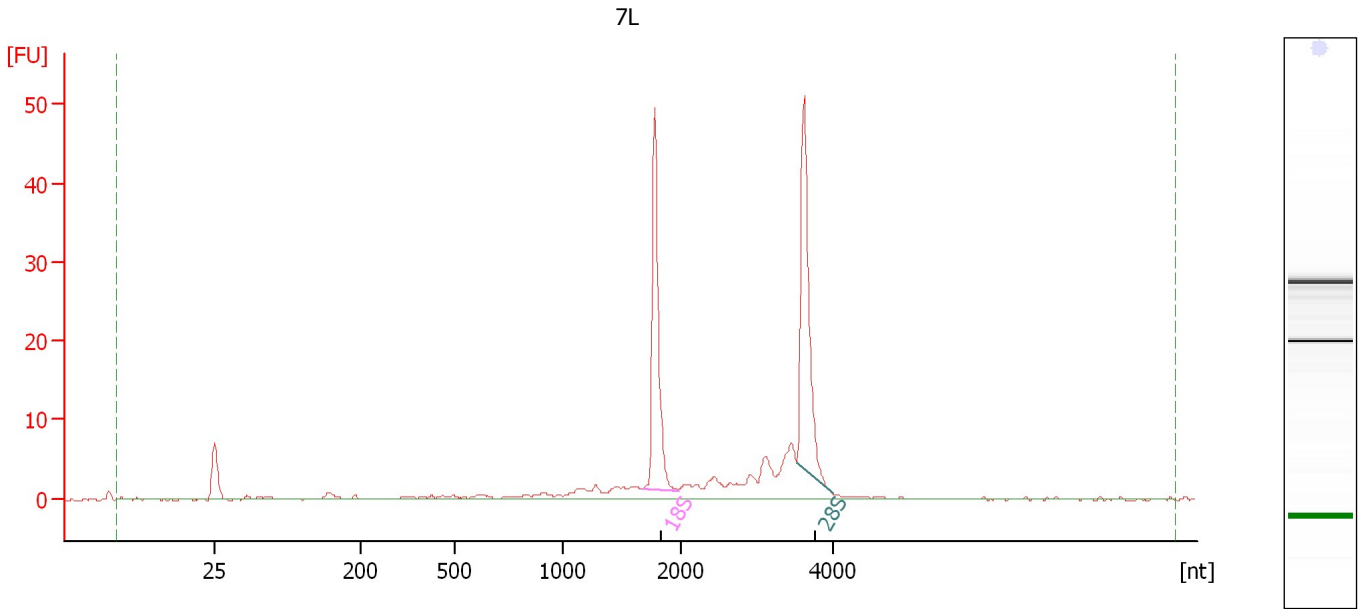
Fragment table for sample 11 : HRAS prolifer

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,703	1,950	211.5	26.3
28S	3,489	4,124	367.2	45.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 7L

RNA Area: 144.5 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 104 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 8.90

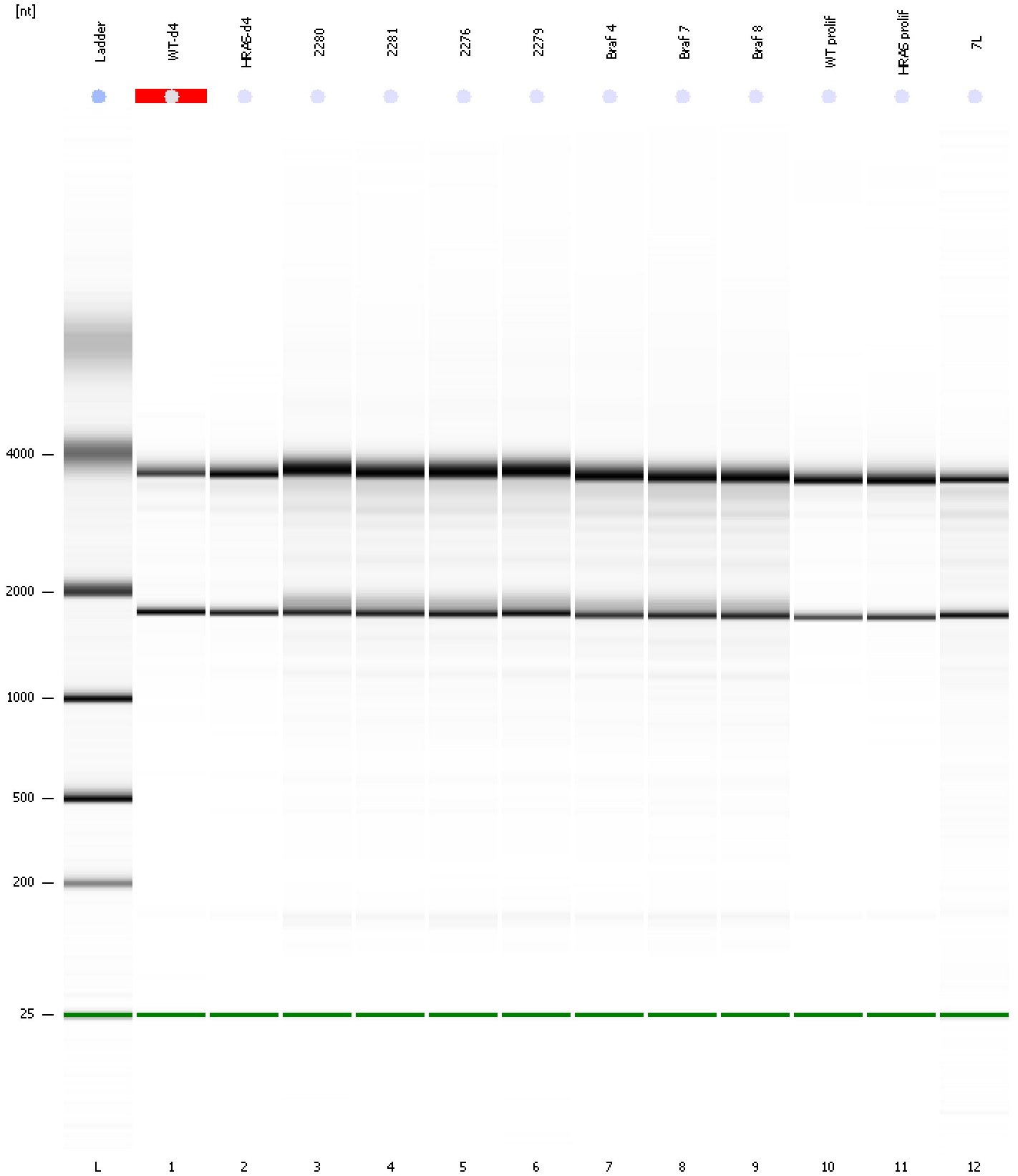
Fragment table for sample 12 : 7L

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	1,978	37.1	25.7
28S	3,529	4,008	37.9	26.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Gel Image

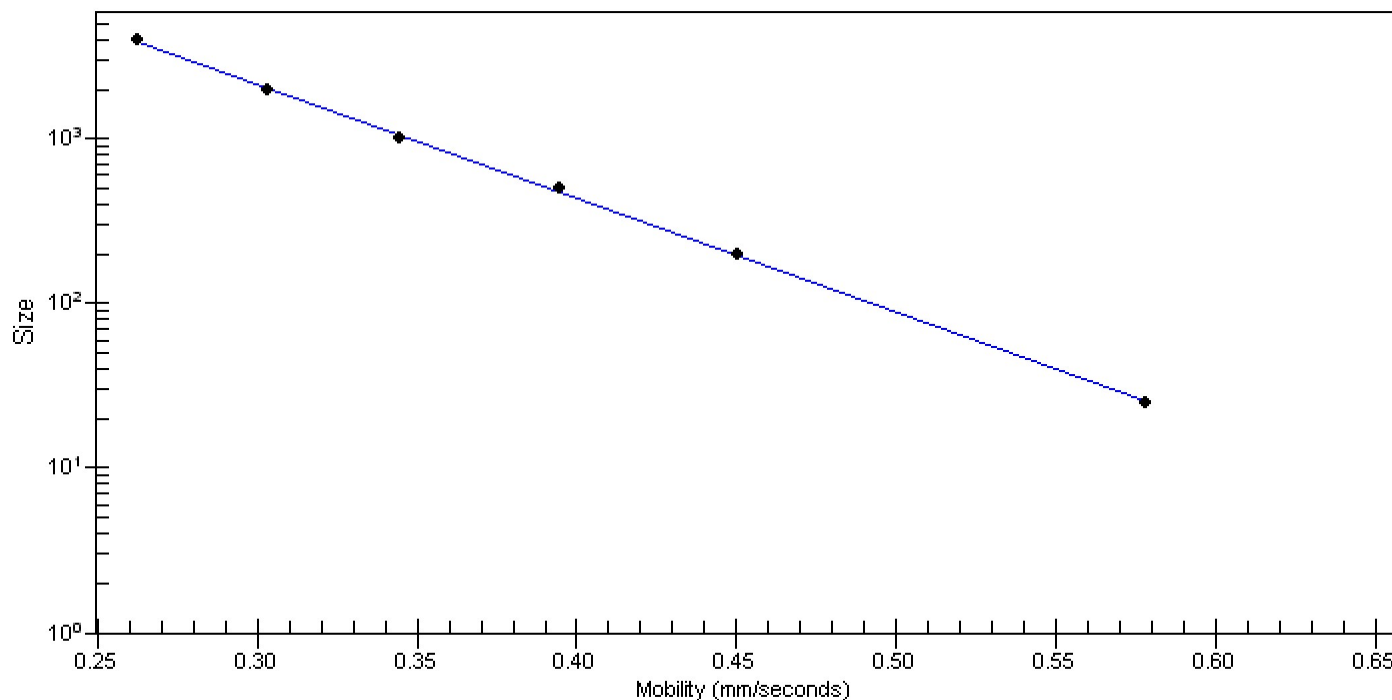


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
Modified: 8/21/2014 3:20:57 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad

Created: 8/21/2014 2:57:03 PM
 Modified: 8/21/2014 3:20:57 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		8/21/2014 3:20:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-08-21\2014-08-21_004.xad)		Instrument	Run		8/21/2014 2:57:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/21/2014 2:57:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/21/2014 2:57:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/21/2014 2:57:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/21/2014 2:57:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/21/2014 2:57:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/21/2014 2:57:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1