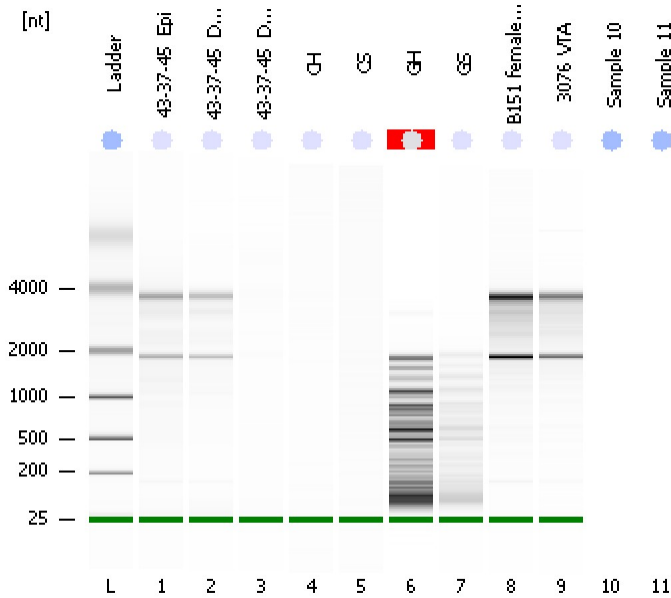


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Electrophoresis File Run Summary



Instrument Information:

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

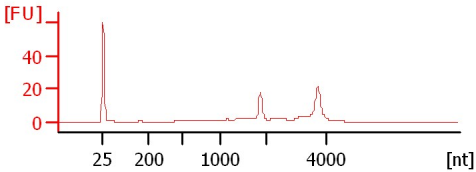
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
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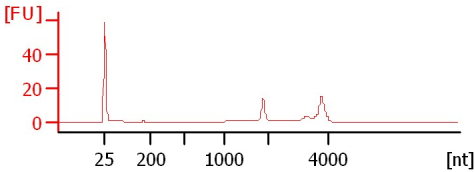
Chip Information:

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

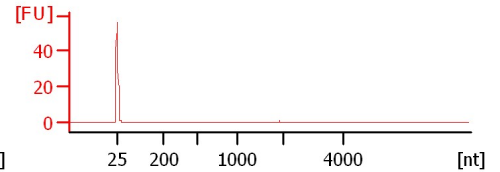
QC_051 RIN: 8.20 43-37-45_Epi



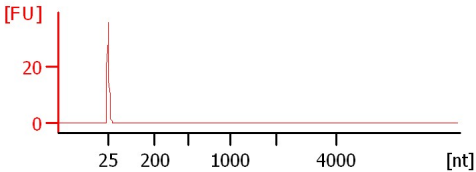
QC_051 RIN: 8.20 43-37-45_Derm_1



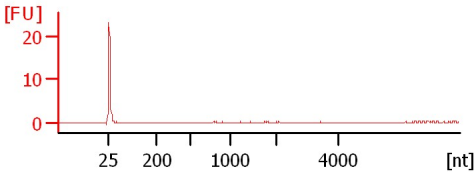
QC_051 RIN: 1 43-37-45_Derm_2



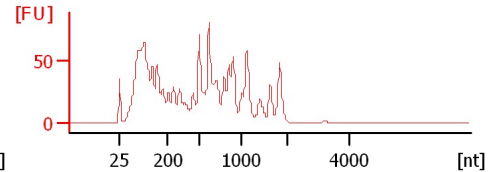
HiSeq_287 RIN: 1 CH



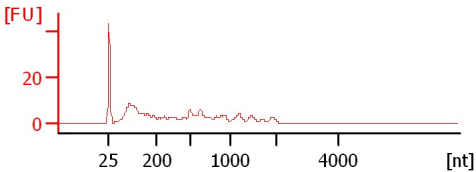
HiSeq_287 RIN: 1 CS



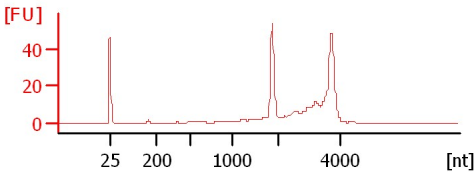
HiSeq_287 RIN N/A GH



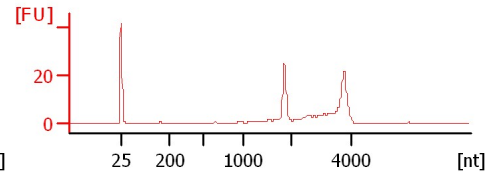
HiSeq_287 RIN: 3.20 GS



MiSeq_234 RIN: 9.10 B151 female VTA



MiSeq_234 RIN: 9.10 3076 VTA



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
43-37-45_Epi	QC_051	✓	RIN: 8.20	
43-37-45_Derm_1	QC_051	✓	RIN: 8.80	
43-37-45_Derm_2	QC_051	✓	RIN:1	
CH	HiSeq_287	✓	RIN:1	
CS	HiSeq_287	✓	RIN:1	
GH	HiSeq_287	✓	RIN N/A	
GS	HiSeq_287	✓	RIN: 3.20	
B151 female VTA	MiSeq 234	✓	RIN: 9.10	
3076 VTA	MiSeq 234	✓	RIN: 9.10	
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

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/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ 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] : 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

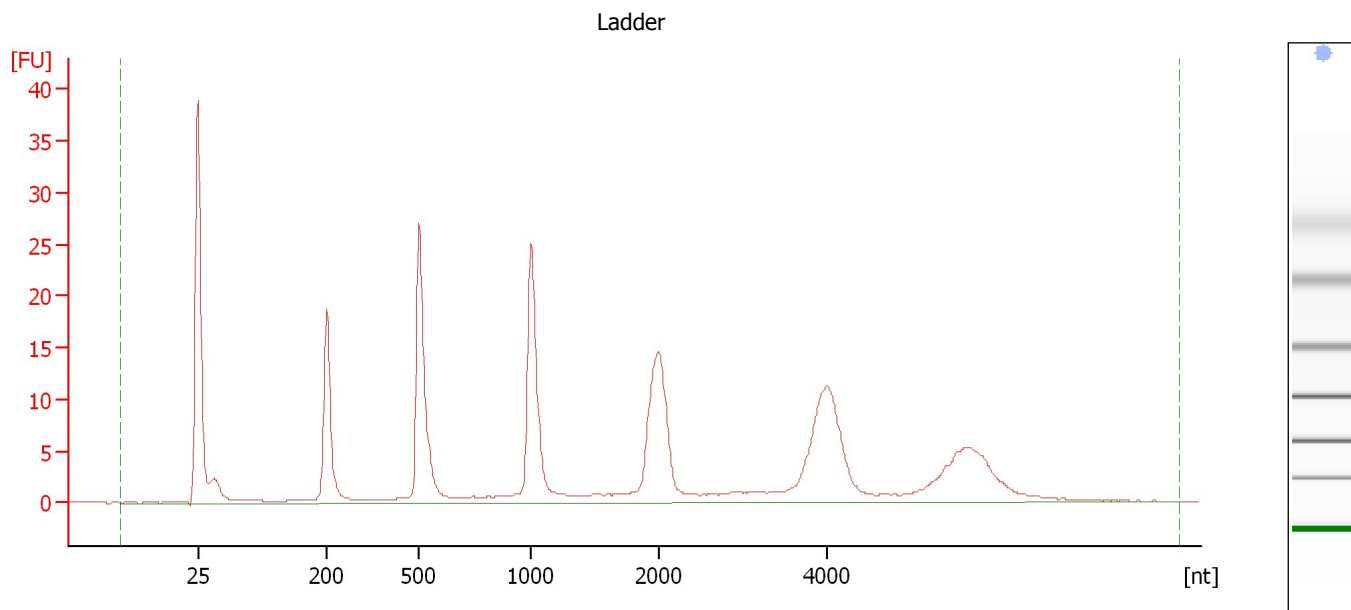
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Electropherogram Summary



Overall Results for Ladder

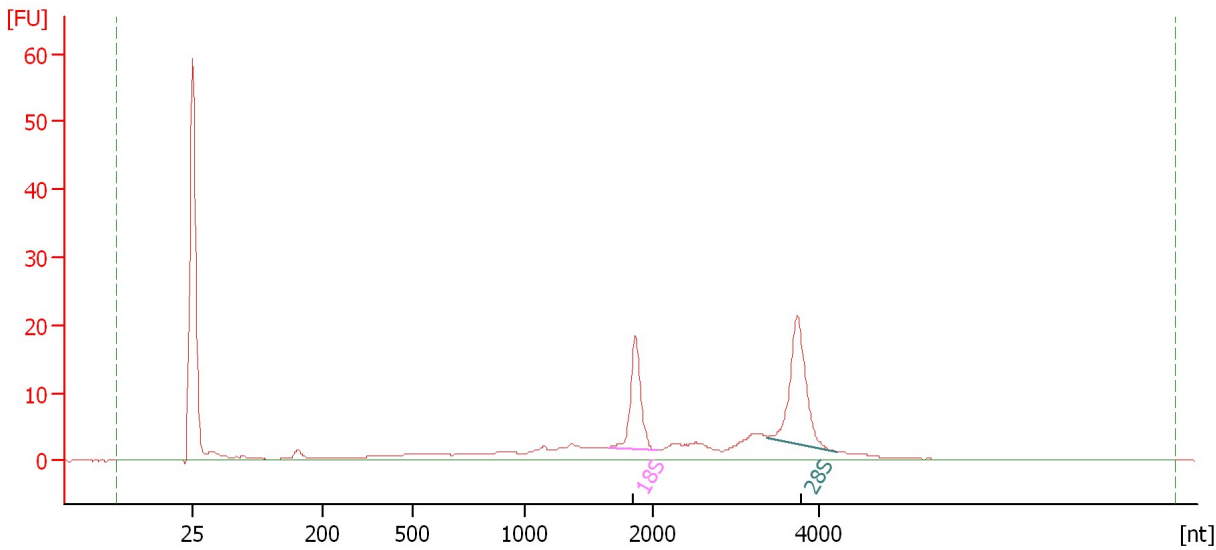
RNA Area:	227.0	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Electropherogram Summary Continued ...

43-37-45_Epi [QC_051]



Overall Results for sample 1 : 43-37-45 Epi

RNA Area: 161.4 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 711 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.20

Fragment table for sample 1 : 43-37-45 Epi

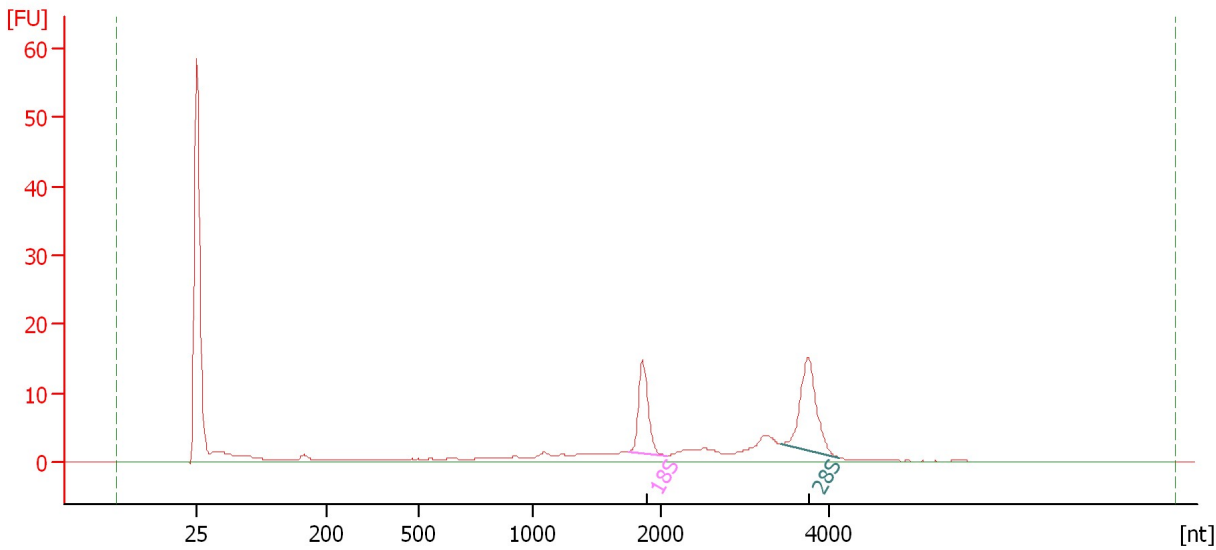
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,654	2,050	21.4	13.2
28S	3,377	4,194	31.2	19.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Electropherogram Summary Continued ...

43-37-45_Derm_1 [QC_051]



Overall Results for sample 2 : 43-37-45 Derm 1

RNA Area: 108.3 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 477 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.80

Fragment table for sample 2 : 43-37-45 Derm 1

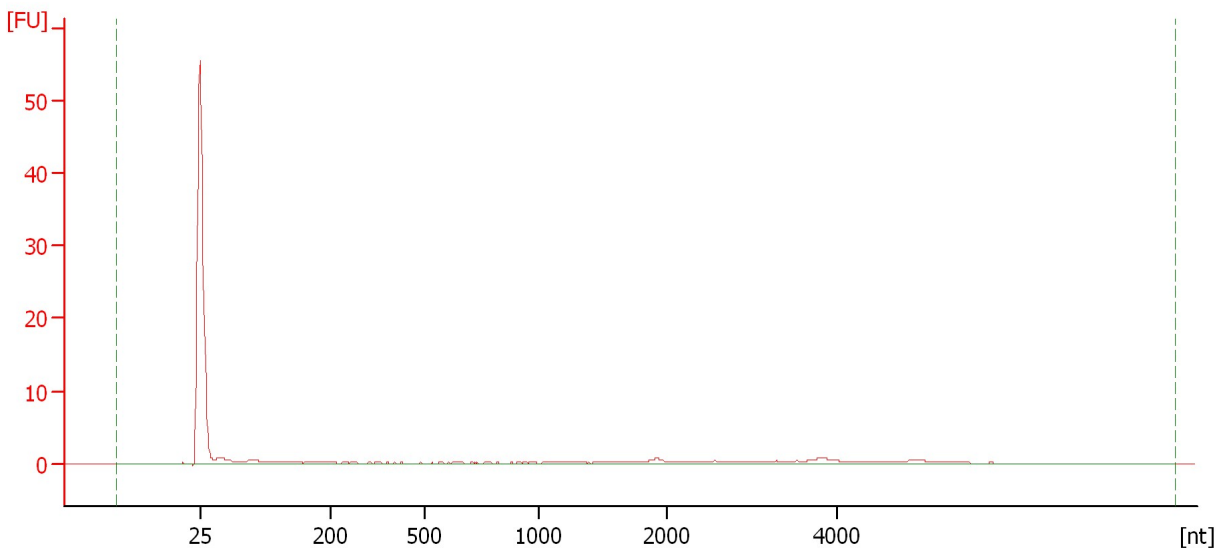
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,759	2,065	15.2	14.1
28S	3,432	4,116	23.1	21.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Electropherogram Summary Continued ...

43-37-45_Derm_2 [QC_051]



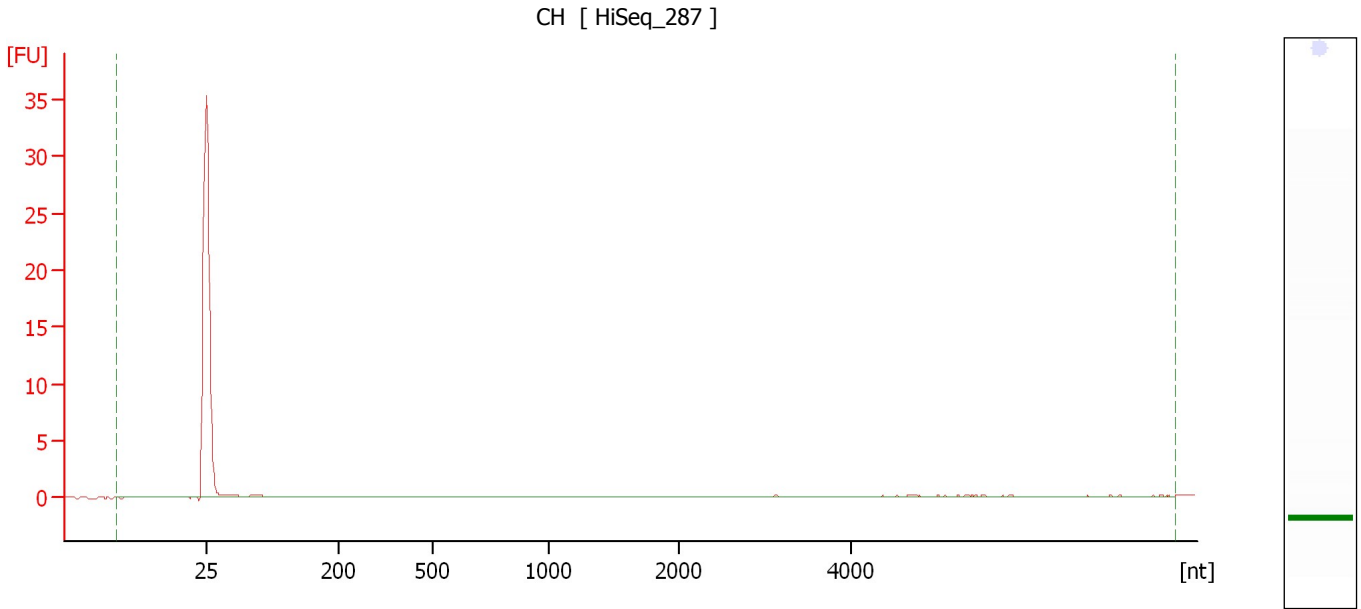
Overall Results for sample 3 : 43-37-45 Derm 2

RNA Area:	25.8	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	114 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Electropherogram Summary Continued ...



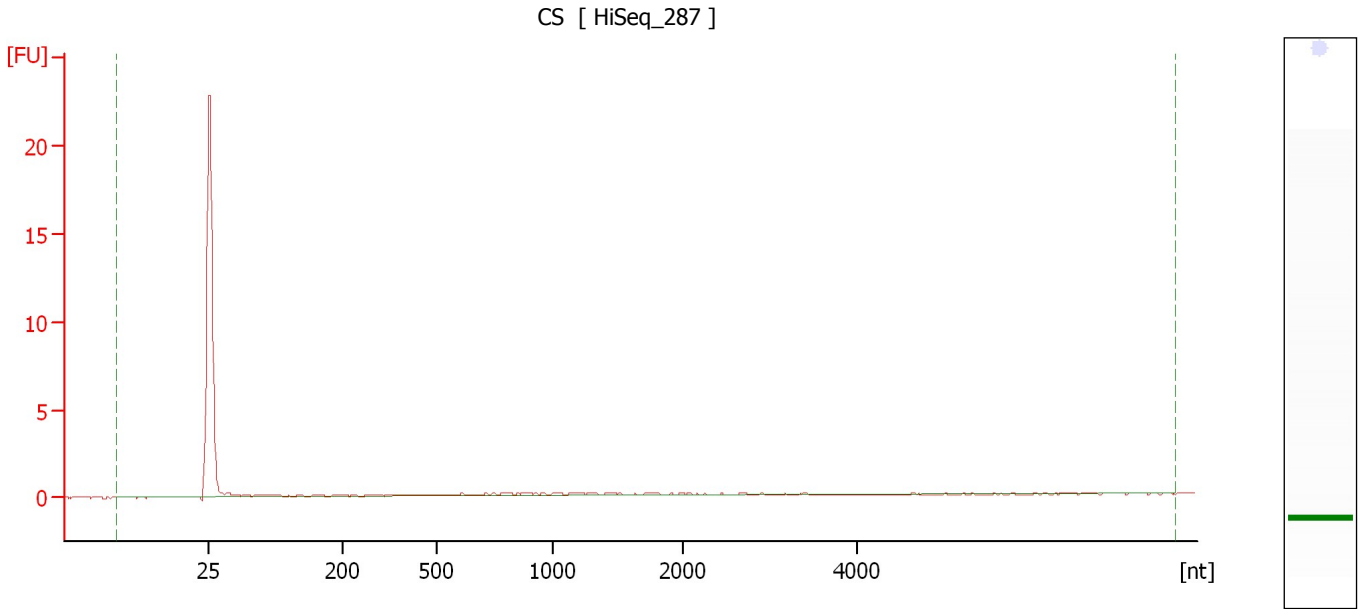
Overall Results for sample 4 : CH

RNA Area:	4.0	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	18 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Electropherogram Summary Continued ...



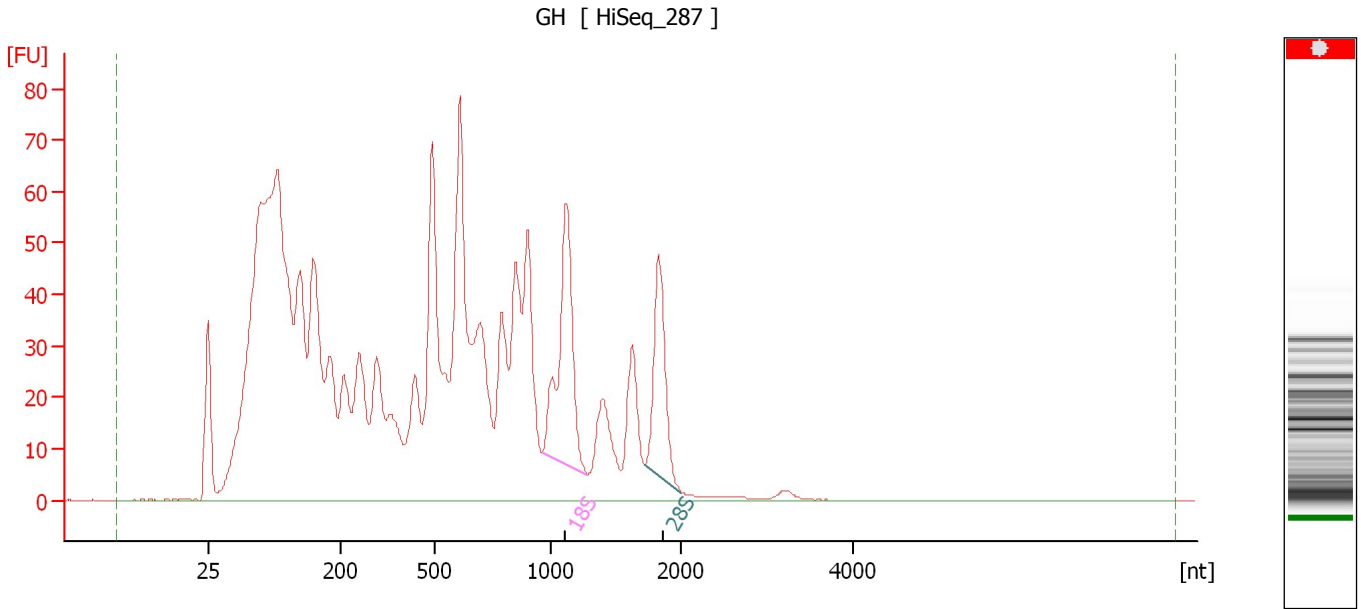
Overall Results for sample 5 : CS

RNA Area:	8.9	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	39 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
 Modified: 11/24/2015 10:33:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : GH

RNA Area:	1,775.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7,820 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN N/A

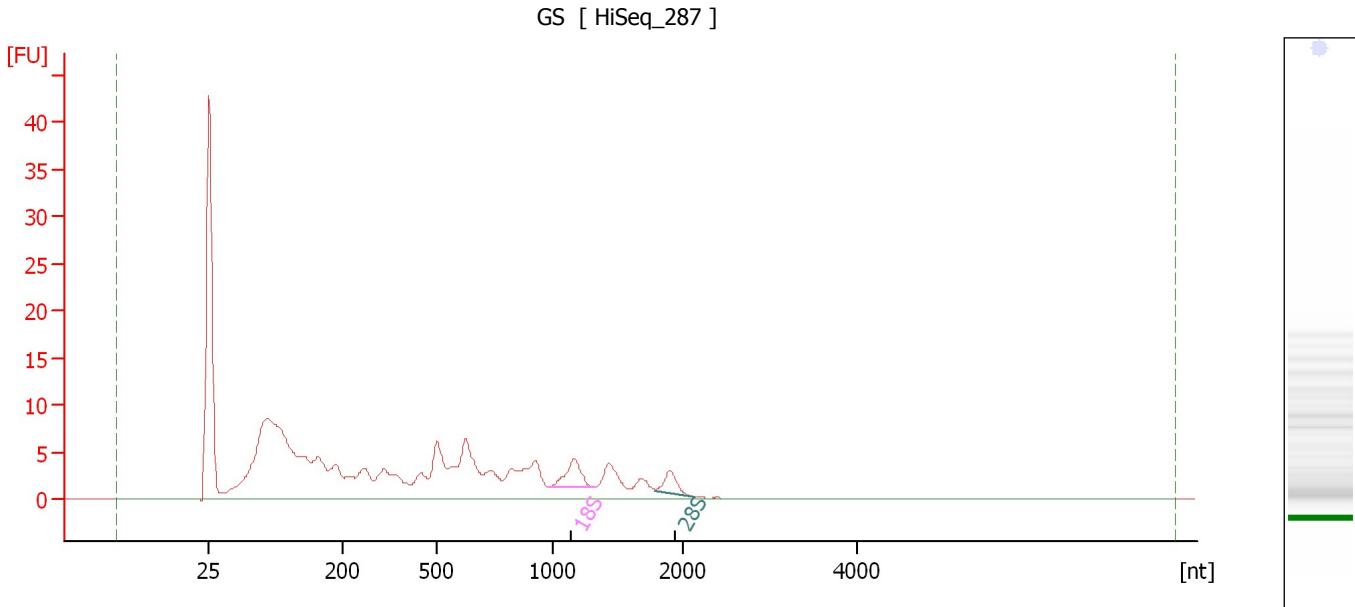
Fragment table for sample 6 : GH

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	963	1,279	91.1	5.1
28S	1,721	1,998	56.3	3.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : GS

RNA Area:	207.5	RNA Integrity Number (RIN):	3.2 (B.02.08)
RNA Concentration:	914 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 3.20

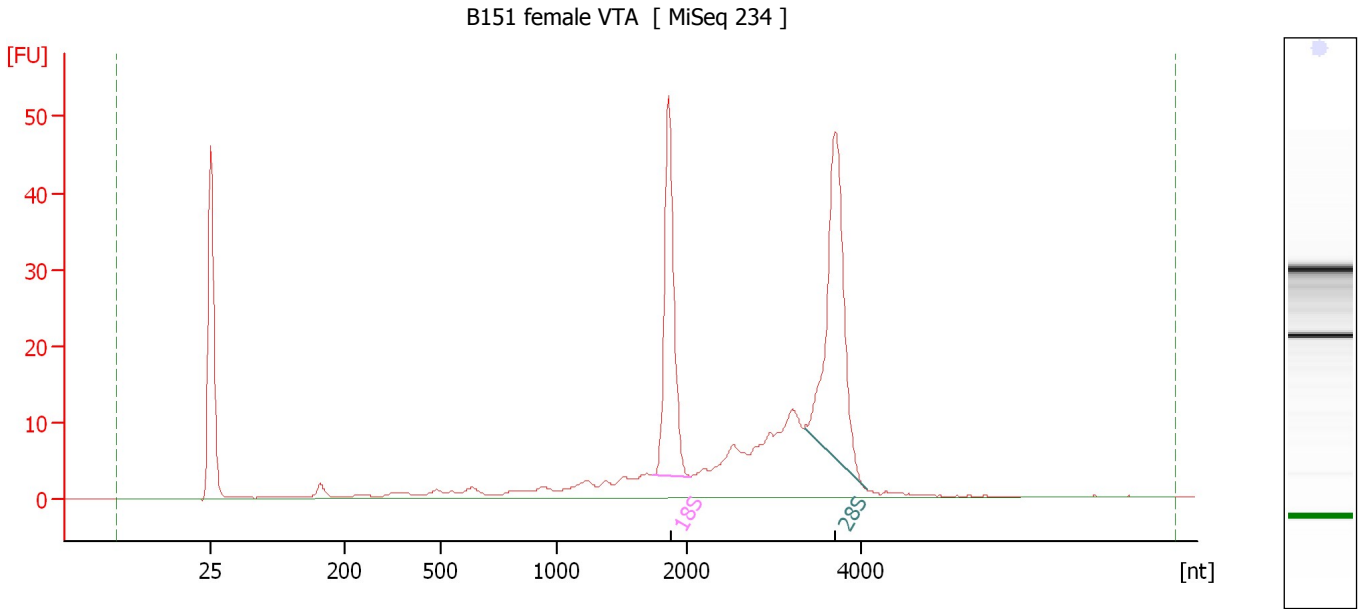
Fragment table for sample 7 : GS

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	984	1,322	6.1	2.9
28S	1,787	2,122	3.5	1.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : B151 female VTA

RNA Area: 293.2 RNA Integrity Number (RIN): 9.1 (B.02.08)
RNA Concentration: 1,292 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 9.10

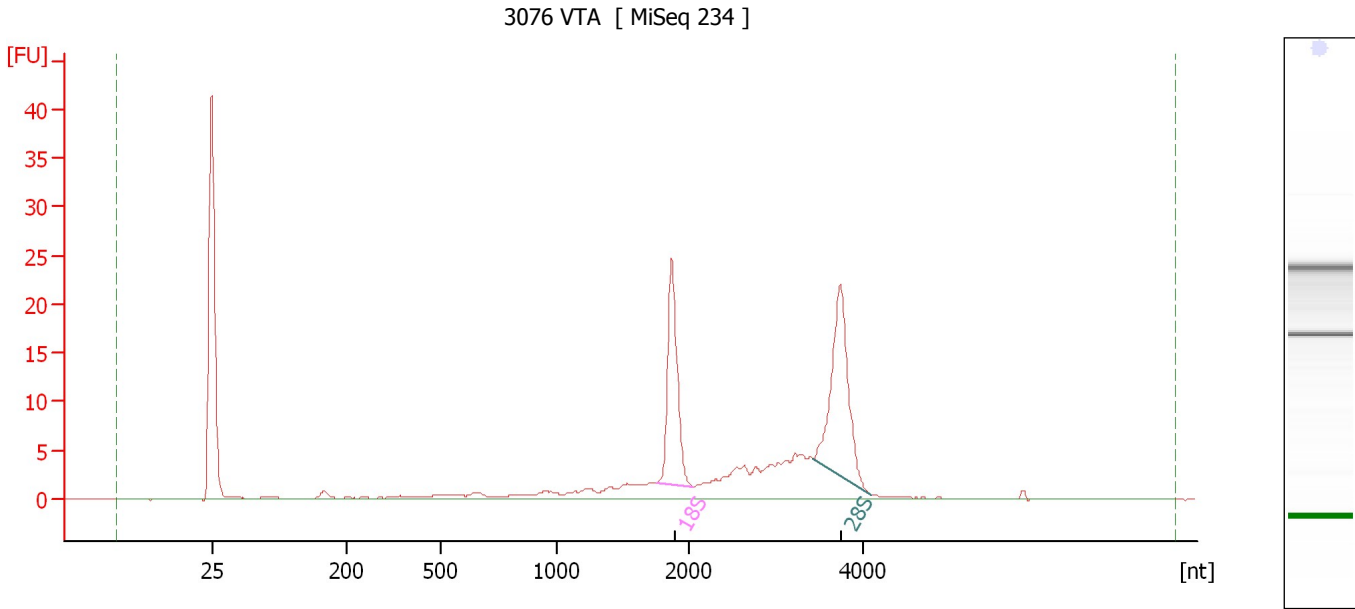
Fragment table for sample 8 : B151 female VTA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,732	2,037	56.4	19.2
28S	3,342	4,057	73.9	25.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 3076 VTA

RNA Area:	138.5	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	610 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 9.10

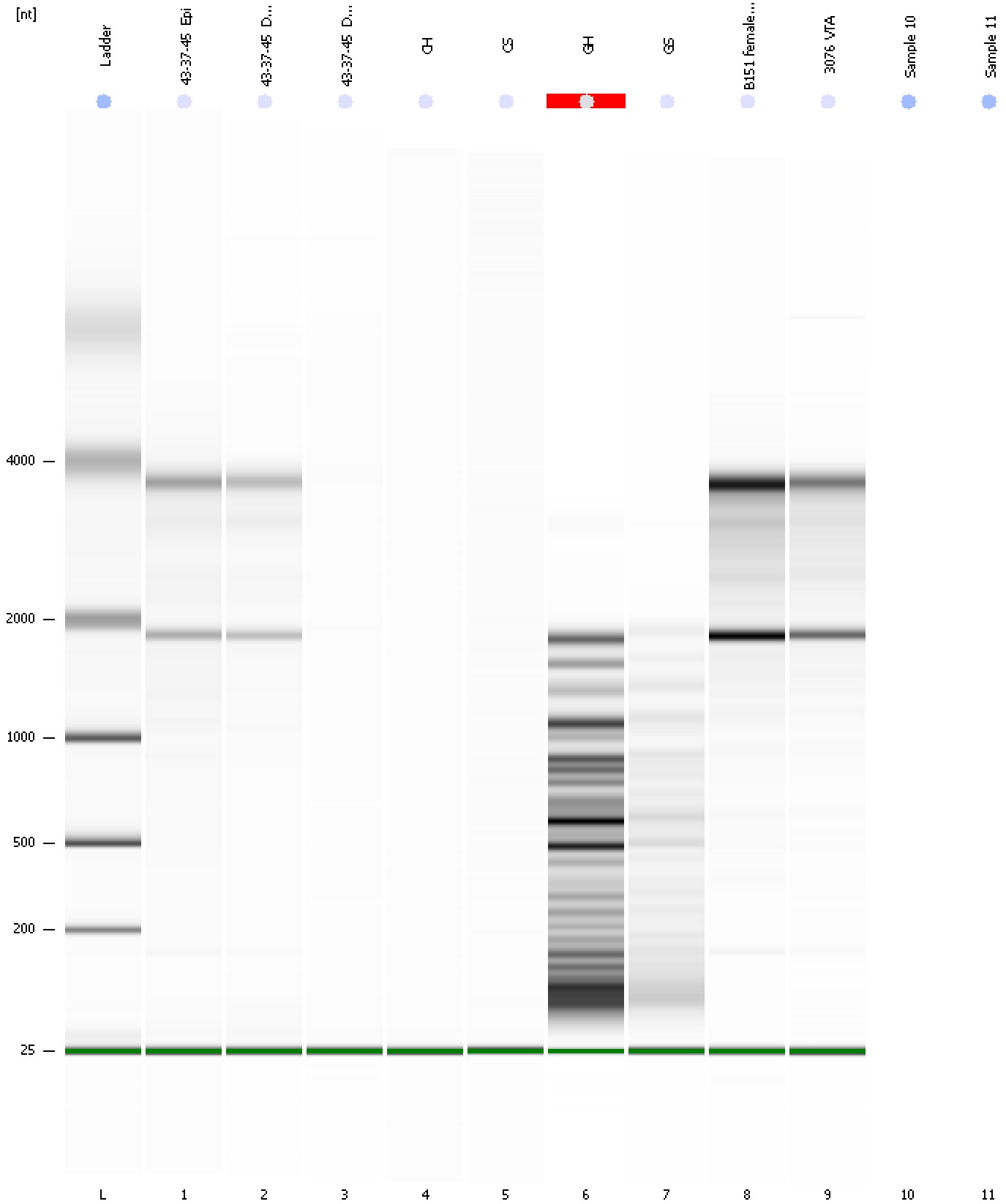
Fragment table for sample 9 : 3076 VTA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,749	2,038	26.2	18.9
28S	3,426	4,078	33.1	23.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
Modified: 11/24/2015 10:33:07 AM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad

Created: 11/24/2015 10:05:51 AM
 Modified: 11/24/2015 10:33:07 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		11/24/2015 10:25:52 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-24\2015-11-24_001.xad)		Instrument	Run		11/24/2015 10:05:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/24/2015 10:05:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/24/2015 10:05:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/24/2015 10:05:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/24/2015 10:05:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/24/2015 10:05:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/24/2015 10:05:56 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1