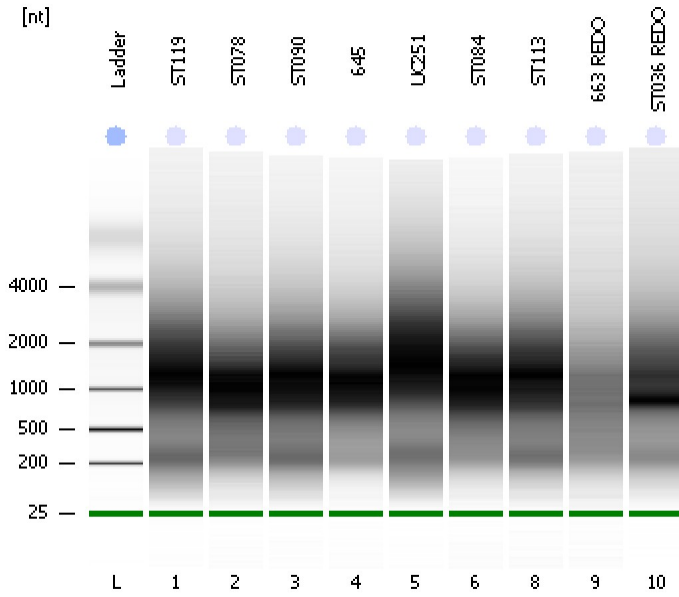


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
Modified: 5/21/2016 2:20:01 PM

Electrophoresis File Run Summary



Instrument Information:

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

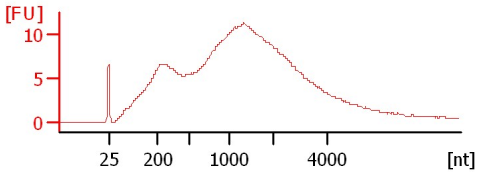
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

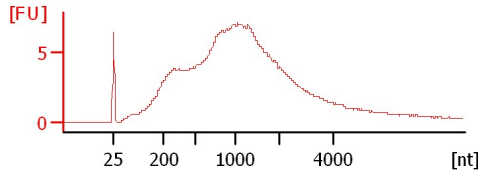
Chip Information:

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

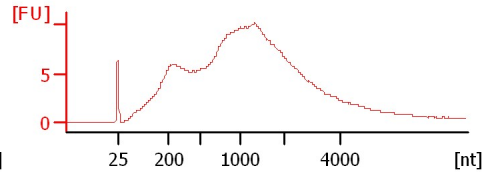
ST119
RIN: 8.20



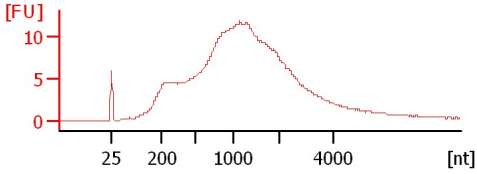
ST078
RIN: 2.80



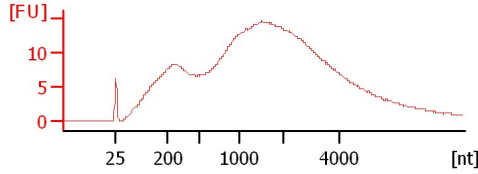
ST090
RIN: 2.60



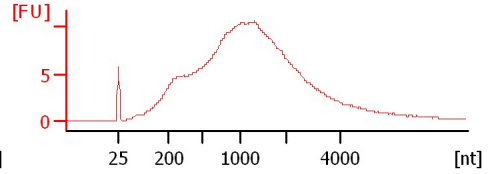
645
RIN: 2.20



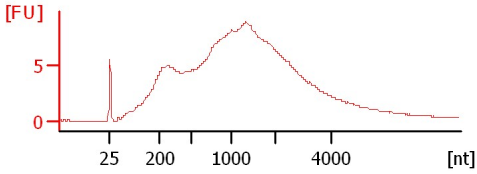
UC251
RIN: 2.60



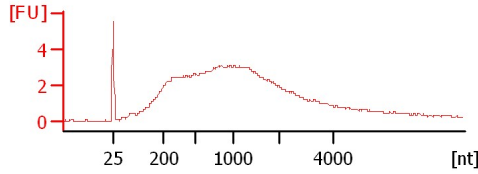
ST084
RIN: 2.80



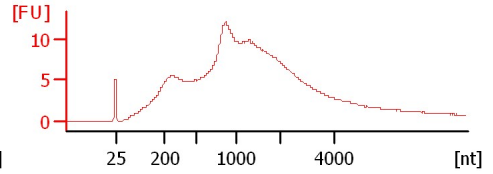
ST113
RIN: 3.50



663 REDO
RIN: 2.30



ST036 REDO
RIN: 2



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
 Modified: 5/21/2016 2:20:01 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
ST119		✓	RIN: 8.20	
ST078		✓	RIN: 2.80	
ST090		✓	RIN: 2.60	
645		✓	RIN: 2.20	
UC251		✓	RIN: 2.60	
ST084		✓	RIN: 2.80	
ST113		✓	RIN: 3.50	
663 REDO		✓	RIN: 2.30	
ST036 REDO		✓	RIN:2	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
Modified: 5/21/2016 2:20:01 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

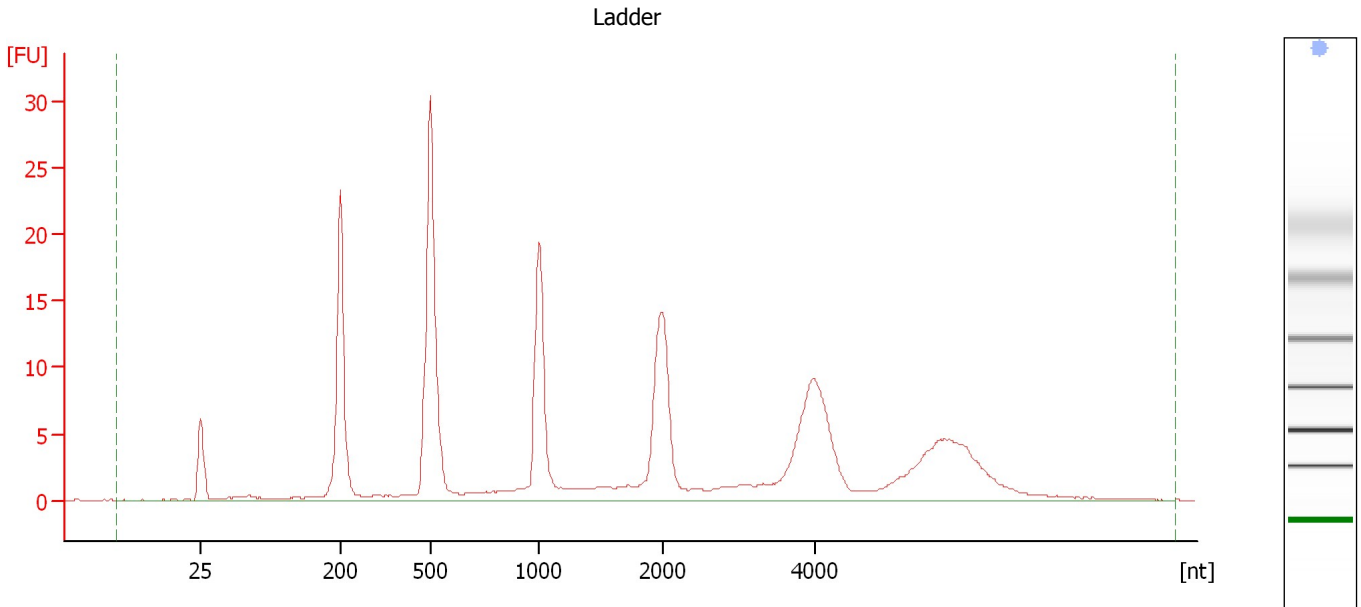
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
Modified: 5/21/2016 2:20:01 PM

Electropherogram Summary



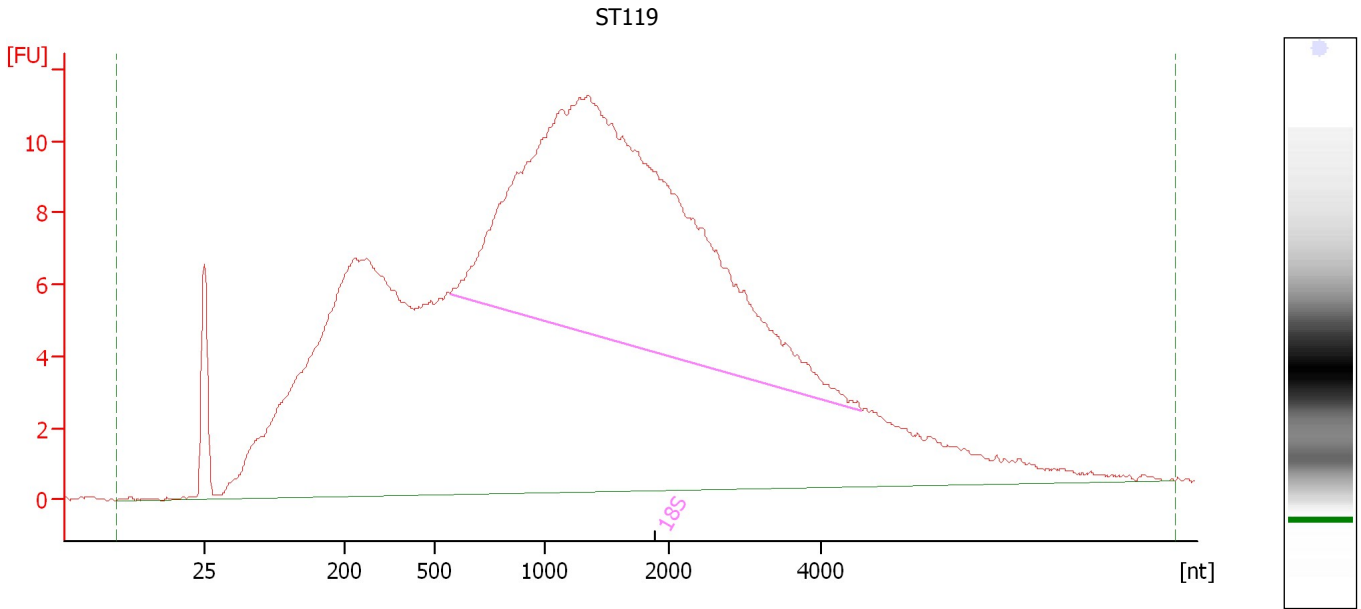
Overall Results for Ladder

RNA Area:	223.0	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
 Modified: 5/21/2016 2:20:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ST119

RNA Area:	486.3	RNA Integrity Number (RIN):	8.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	327 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 8.20

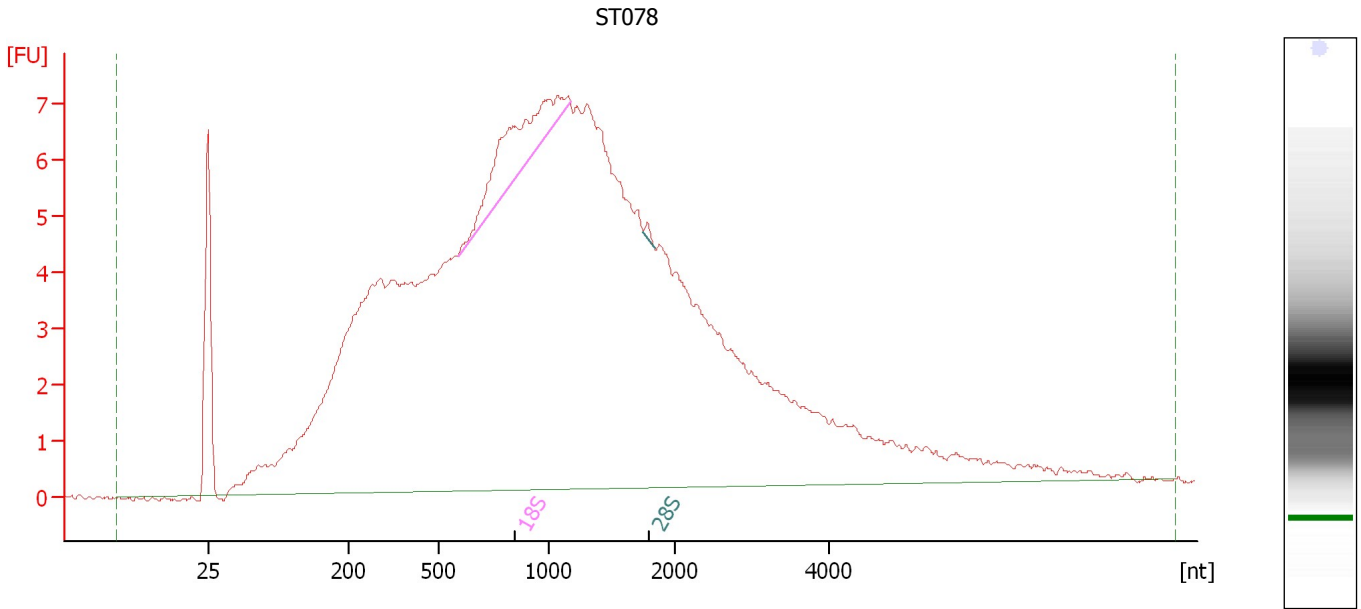
Fragment table for sample 1 : ST119

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	571	4,518	145.6	29.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
 Modified: 5/21/2016 2:20:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : ST078

RNA Area:	267.9	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	180 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

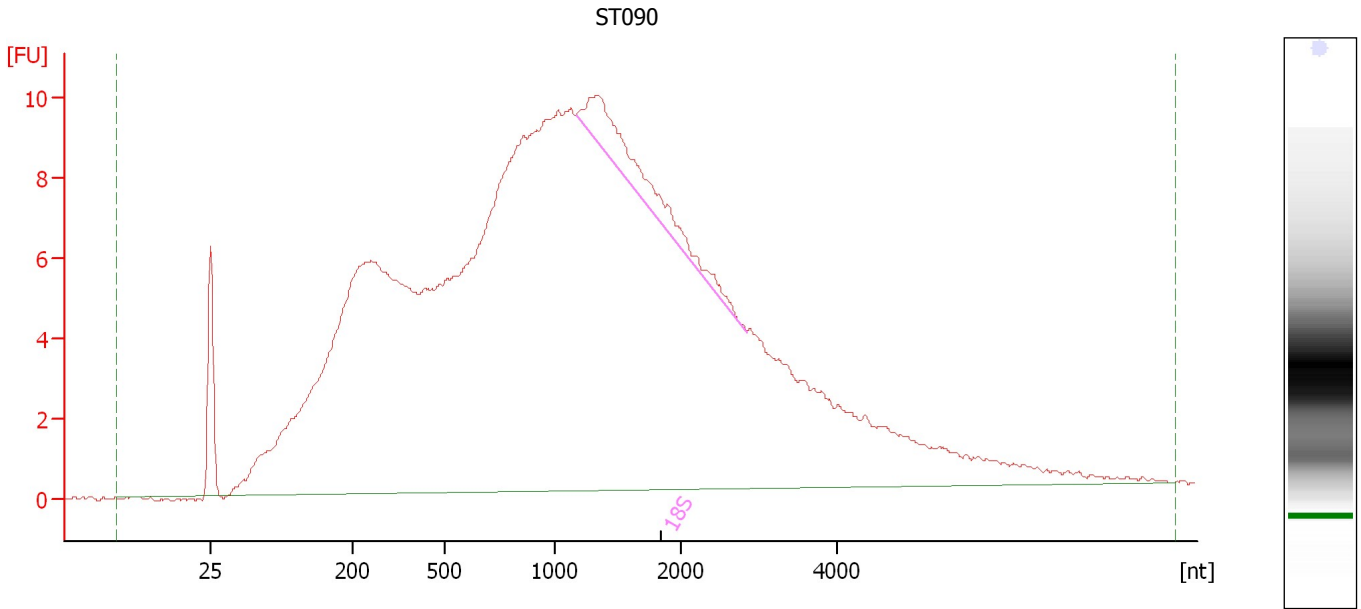
Fragment table for sample 2 : ST078

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	583	1,162	7.2	2.7
28S	1,755	1,841	0.2	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
Modified: 5/21/2016 2:20:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : ST090

RNA Area:	411.0	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	276 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

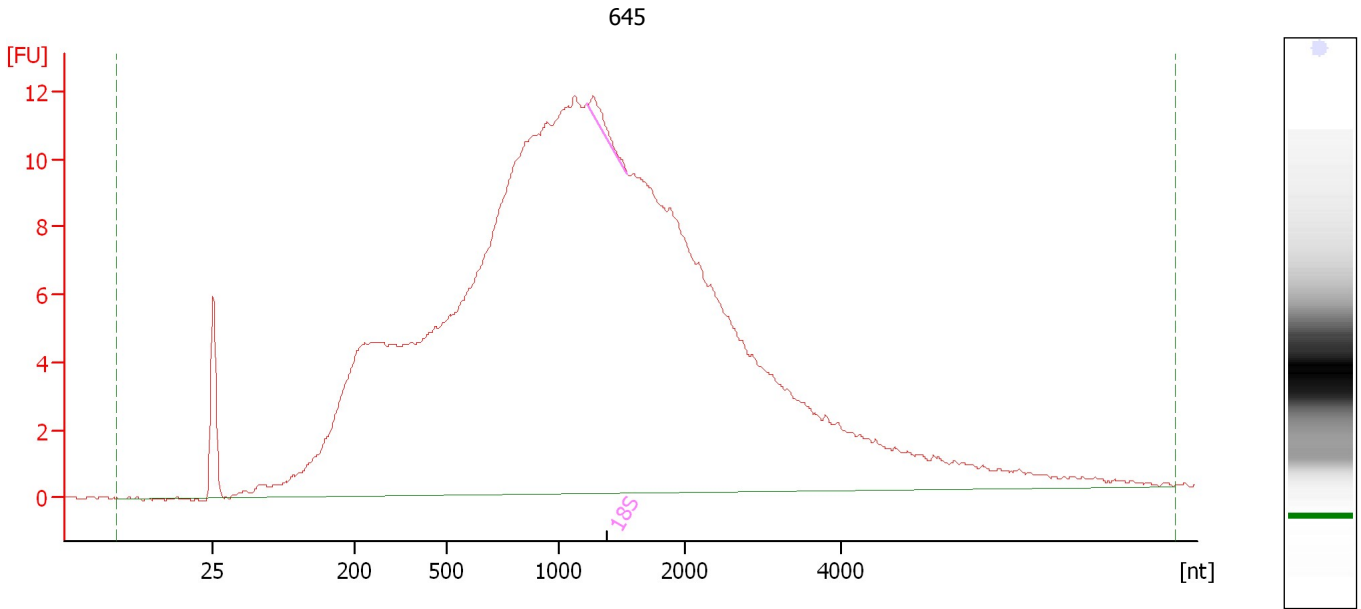
Fragment table for sample 3 : ST090

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,170	2,847	9.6	2.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
Modified: 5/21/2016 2:20:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 645

RNA Area:	411.1	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	276 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

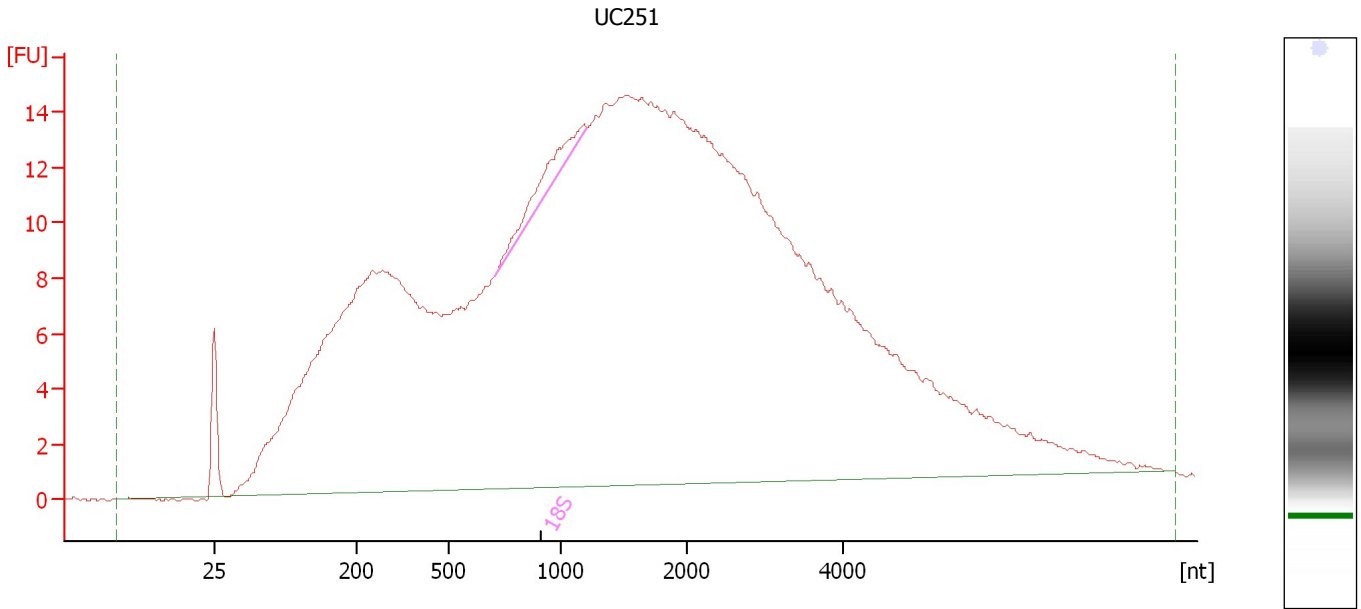
Fragment table for sample 4 : 645

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,225	1,548	1.1	0.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
Modified: 5/21/2016 2:20:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : UC251

RNA Area:	675.3	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	454 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

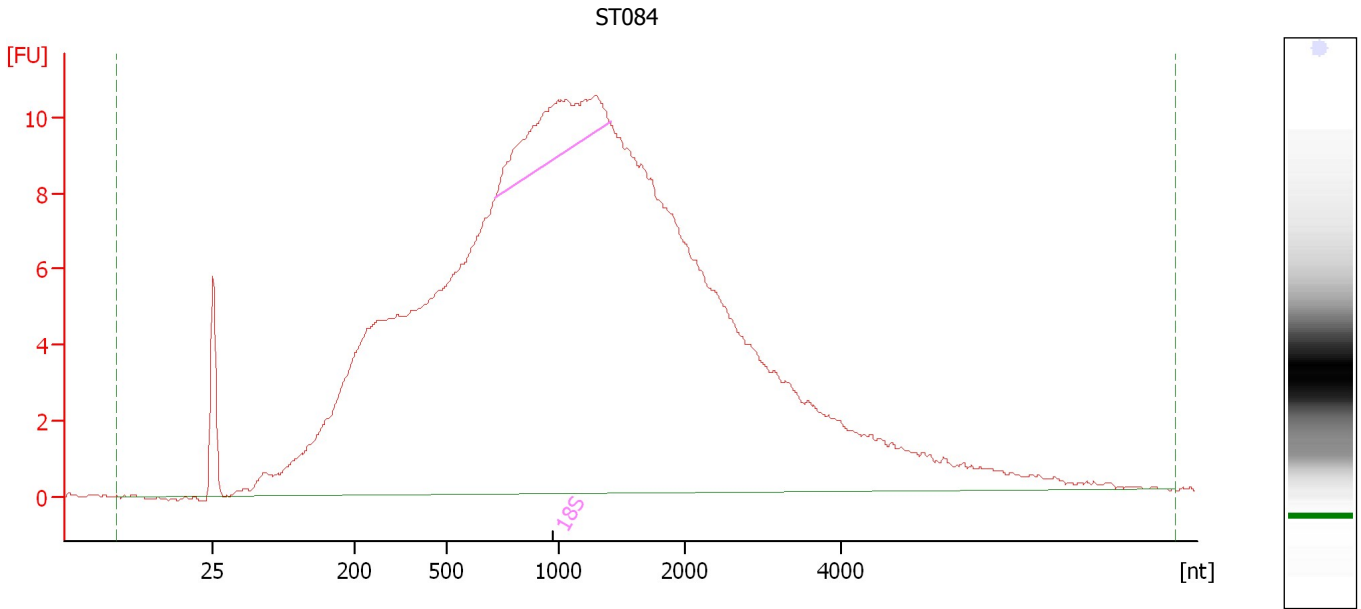
Fragment table for sample 5 : UC251

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	708	1,211	6.0	0.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
Modified: 5/21/2016 2:20:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : ST084

RNA Area:	397.0	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	267 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

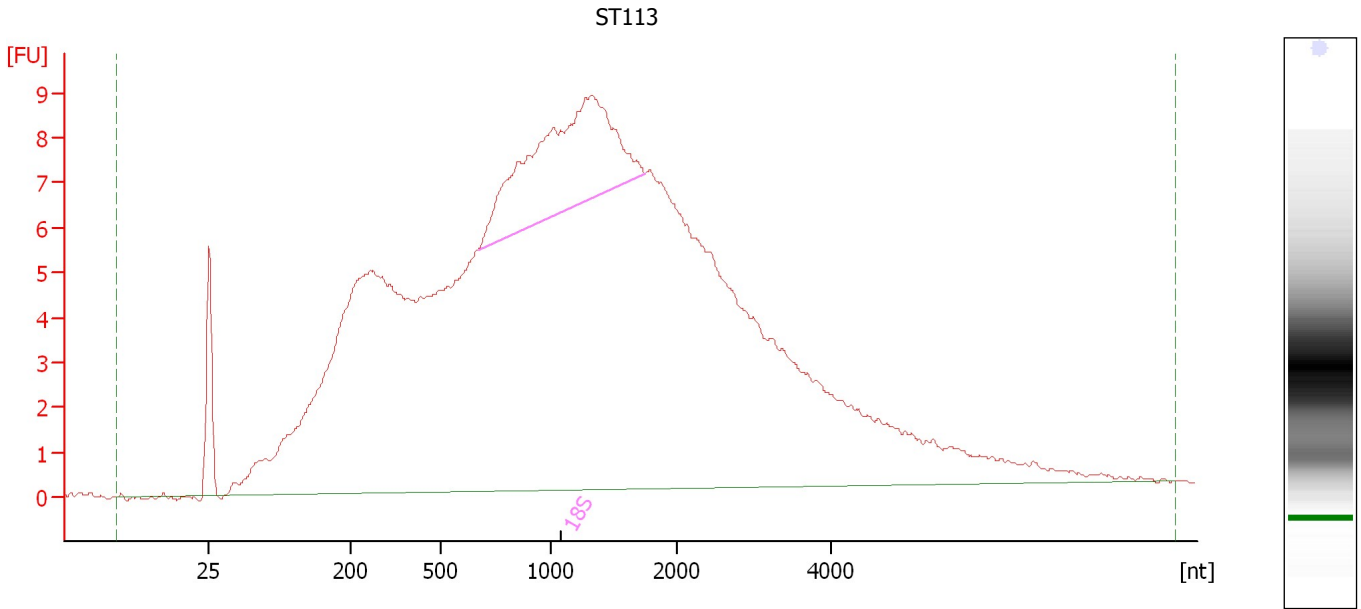
Fragment table for sample 6 : ST084

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	715	1,412	13.5	3.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
 Modified: 5/21/2016 2:20:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : ST113

RNA Area:	360.9	RNA Integrity Number (RIN):	3.5 (B.02.08)
RNA Concentration:	243 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.50

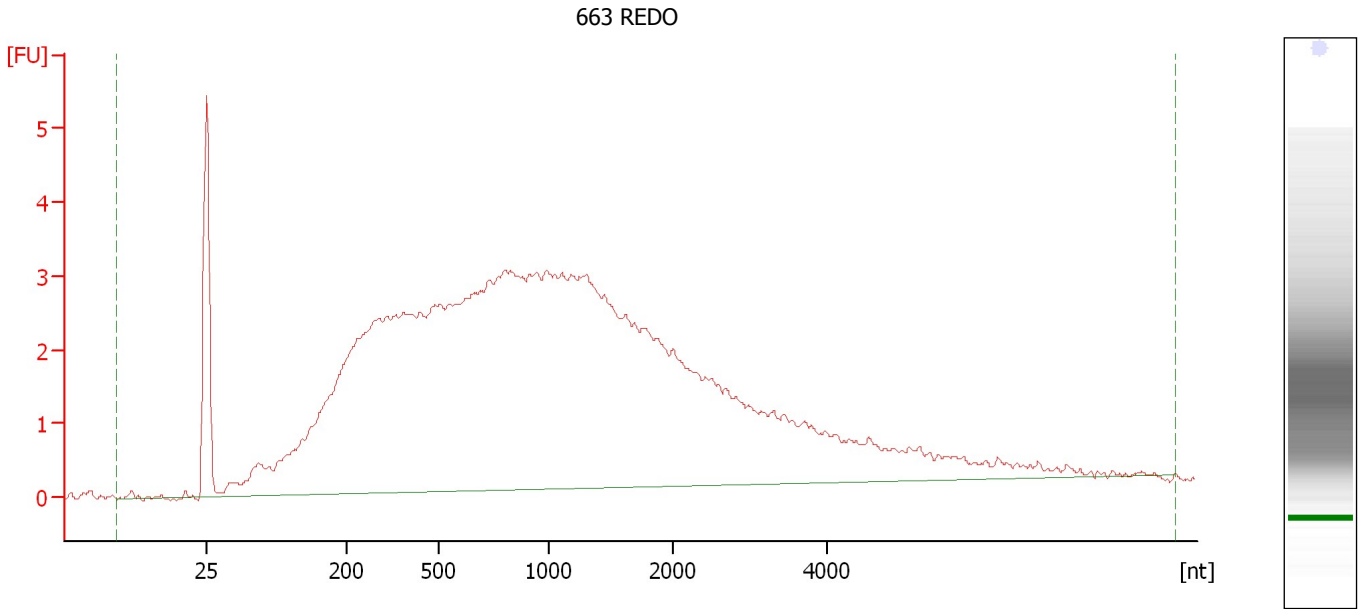
Fragment table for sample 8 : ST113

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	668	1,747	26.5	7.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
Modified: 5/21/2016 2:20:01 PM

Electropherogram Summary Continued ...



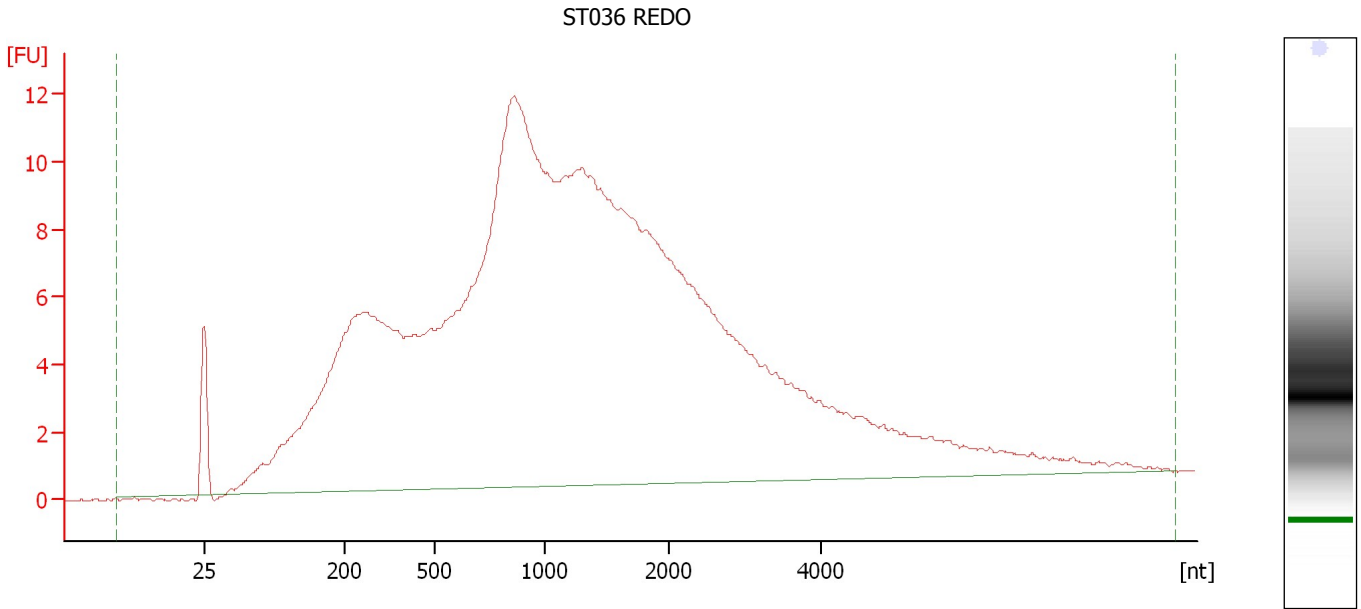
Overall Results for sample 9 : 663 REDO

RNA Area:	140.2	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	94 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
Modified: 5/21/2016 2:20:01 PM

Electropherogram Summary Continued ...



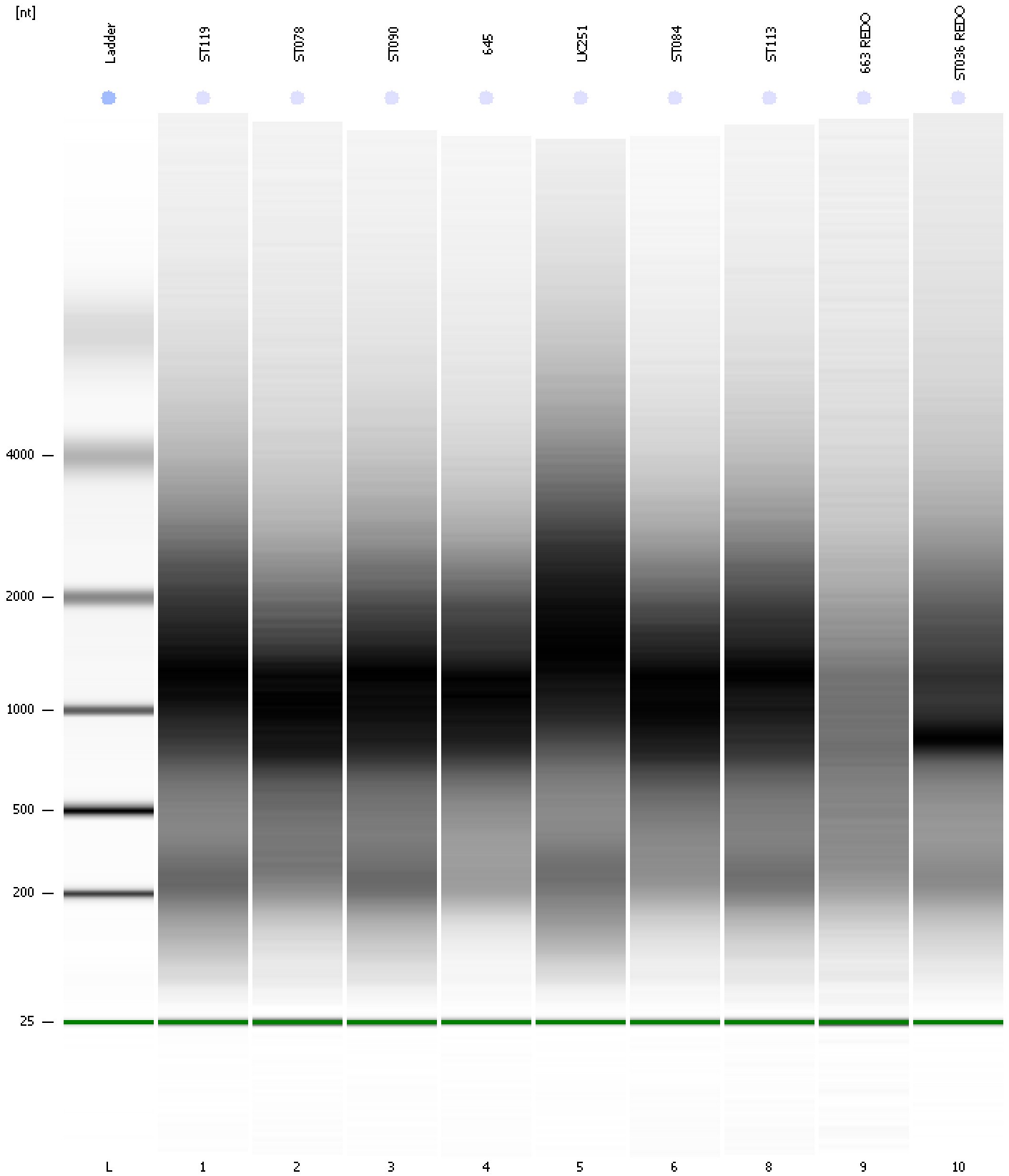
Overall Results for sample 10 : ST036 REDO

RNA Area:	406.6	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	273 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad

Created: 5/21/2016 1:56:08 PM
Modified: 5/21/2016 2:20:01 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 5/21/2016 1:56:08 PM
 Data Path: C:\...2100 expert\data\2016-05-21\2016-05-21_003_cRNAQC_chip8.xad Modified: 5/21/2016 2:20:01 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		5/21/2016 2:18:32 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\2016-05-21\2016-05-21_003.xad)		Instrument	Run		5/21/2016 1:56:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/21/2016 1:56:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/21/2016 1:56:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/21/2016 1:56:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/21/2016 1:56:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/21/2016 1:56:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/21/2016 1:56:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1