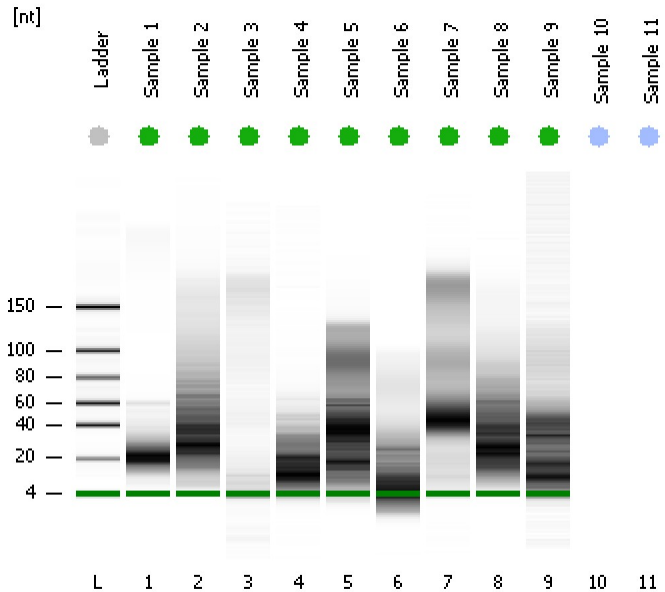


Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
Modified: 1/8/2015 3:06:31 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\Small RNA Series II.xsy

Assay Class: Small RNA

Version: 1.2

Assay Comments: Small RNA Analysis 6 - 150 nucleotides

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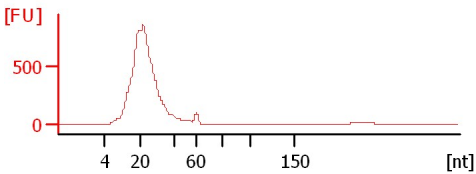
Chip Information:

Chip Lot #:

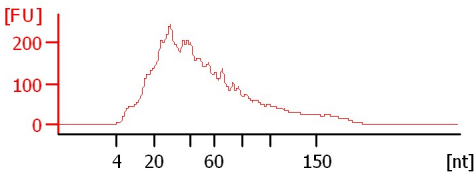
Reagent Kit Lot #:

Chip Comments:

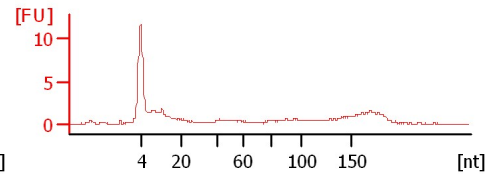
Sample 1
96 % miRNA; Concentration: 603605.50 ...



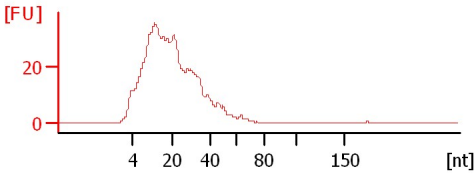
Sample 2
68 % miRNA; Concentration: 160872 pg/μl



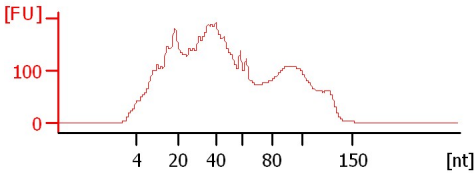
Sample 3
47 % miRNA; Concentration: 270.50 pg/μl



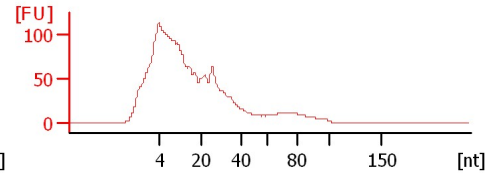
Sample 4
84 % miRNA; Concentration: 11419.90 p...



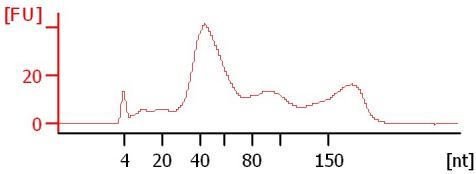
Sample 5
65 % miRNA; Concentration: 13923.40 p...



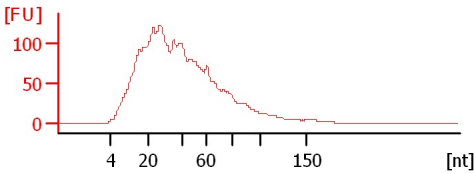
Sample 6
89 % miRNA; Concentration: 687.10 pg/μl



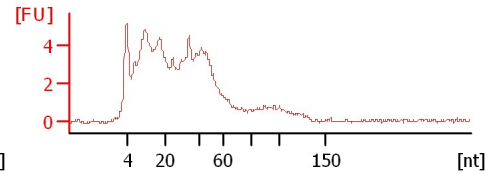
Sample 7
36 % miRNA; Concentration: 3315.40 pg/μl



Sample 8
75 % miRNA; Concentration: 144007.10 ...



Sample 9
74 % miRNA; Concentration: 3883.70 pg/μl



Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
 Modified: 1/8/2015 3:06:31 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	96 % miRNA; Concentration: 603605.50 pg/μl	
Sample 2		✓	68 % miRNA; Concentration: 160872 pg/μl	
Sample 3		✓	47 % miRNA; Concentration: 270.50 pg/μl	
Sample 4		✓	84 % miRNA; Concentration: 11419.90 pg/μl	
Sample 5		✓	65 % miRNA; Concentration: 13923.40 pg/μl	
Sample 6		✓	89 % miRNA; Concentration: 687.10 pg/μl	
Sample 7		✓	36 % miRNA; Concentration: 3315.40 pg/μl	
Sample 8		✓	75 % miRNA; Concentration: 144007.10 pg/μl	
Sample 9		✓	74 % miRNA; Concentration: 3883.70 pg/μl	
Sample 10				
Sample 11				
Ladder		✓	Number of Peaks: 6	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
Modified: 1/8/2015 3:06:31 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 30
Maximum Visible Range [s] : 90
Start Analysis Time Range [s] : 31
End Analysis Time Range [s] : 89
Ladder Concentration [pg/ μ l] : 2500
Lower Marker Concentration [pg/ μ l] : 500
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] : 30
Integration End Time [s] : 89
Slope Threshold : 0.6
Height Threshold [FU] : 3
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 60

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

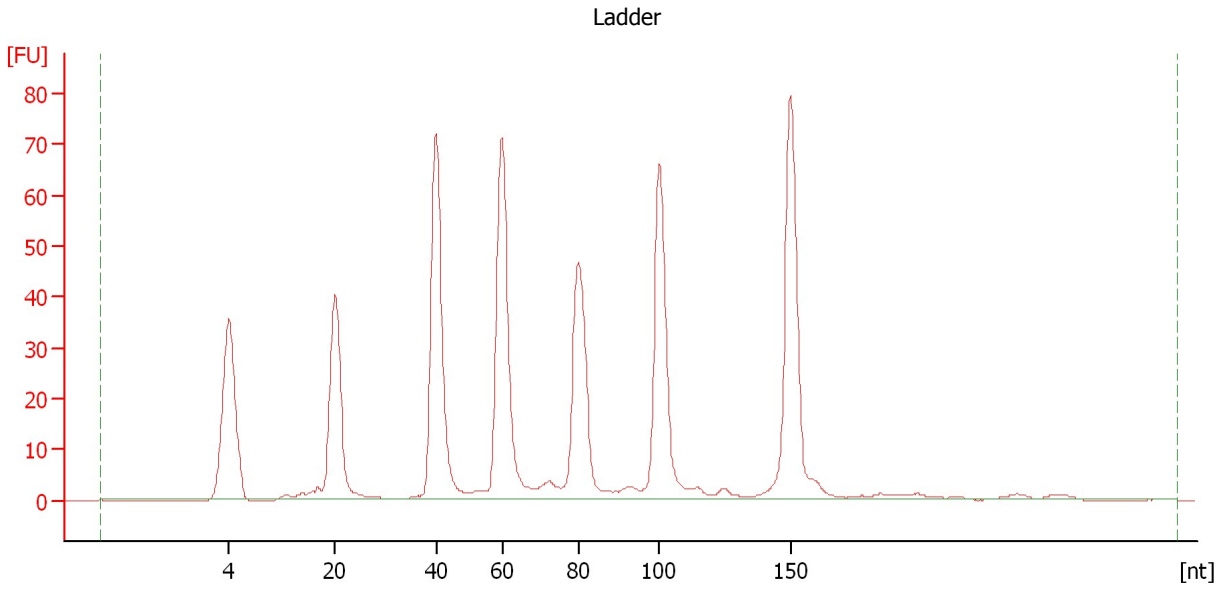
Ladder

Ladder Peak	Size
1	4
2	20
3	40
4	60
5	80
6	100
7	150

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
Modified: 1/8/2015 3:06:31 PM

Electropherogram Summary



Overall Results for Ladder

Result Flagging Color:

Result Flagging Label:

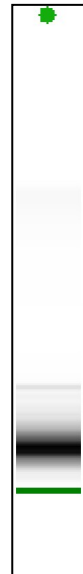
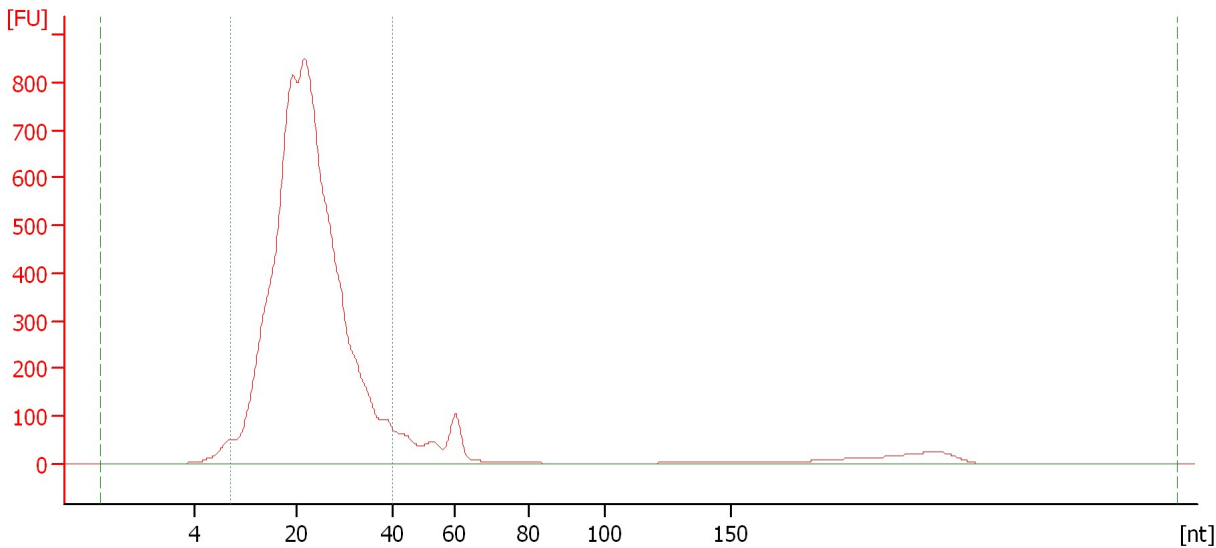
Number of Peaks: 6

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
 Modified: 1/8/2015 3:06:31 PM

Electropherogram Summary Continued ...

Sample 1



Overall Results for sample 1 : Sample 1

Small RNA Concentration [pg/μl]:	630,594.0	Result Flagging Color:	
miRNA Concentration [pg/μl]:	603,605.5	Result Flagging Label:	96 % miRNA; Concentration: 603605.50 pg/μl
miRNA / Small RNA Ratio [%]:	96		

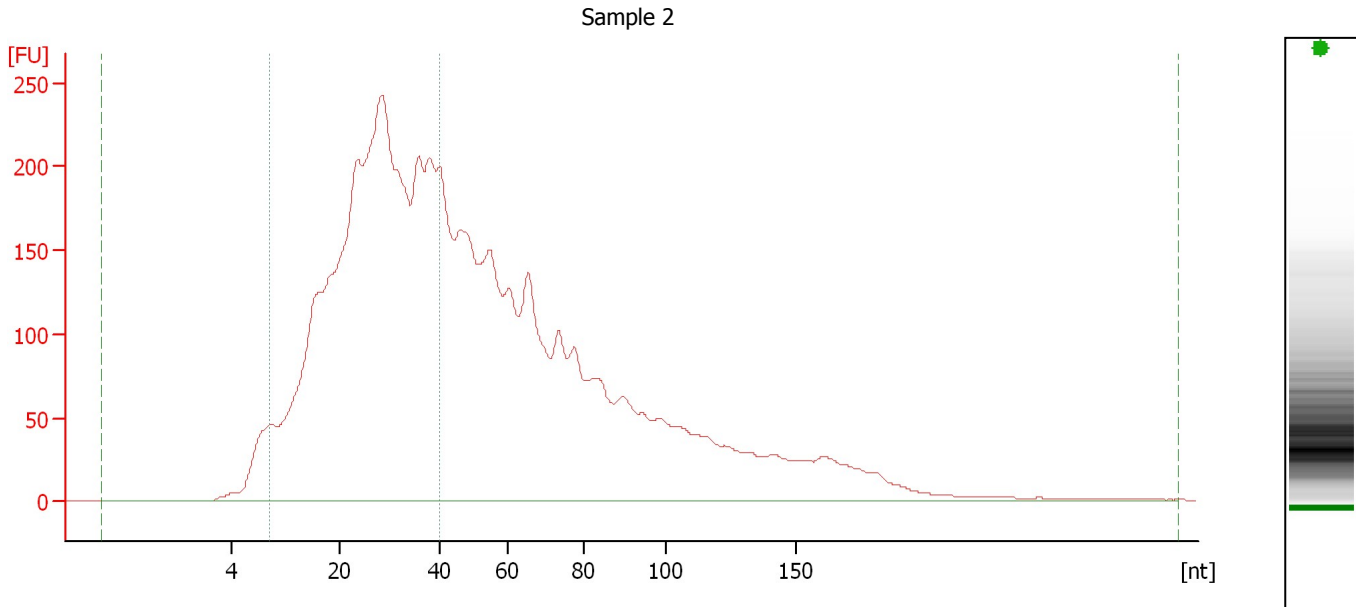
Region table for sample 1 : Sample 1

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	328	33	100.0	630,594.0	100	
miRNA	10	40	23	26.5	603,605.5	96	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
 Modified: 1/8/2015 3:06:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

Small RNA Concentration [pg/μl]:	235,886.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	160,872.0	Result Flagging Label:	68 % miRNA; Concentration: 160872 pg/μl
miRNA / Small RNA Ratio [%]:	68		

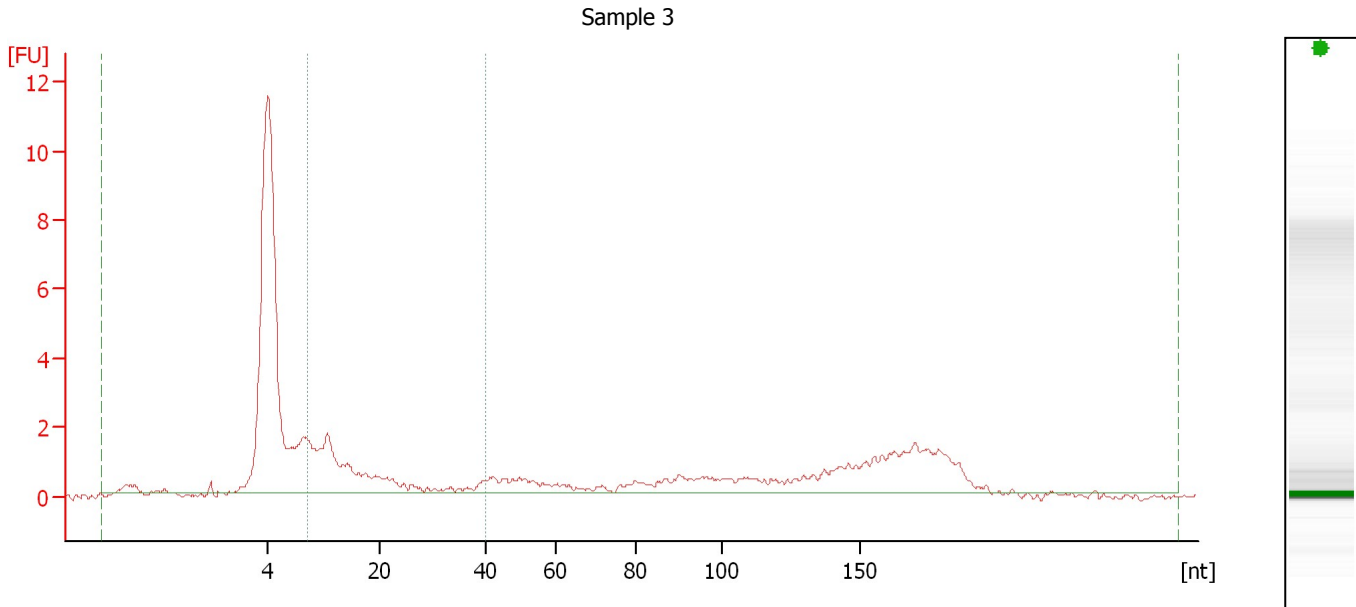
Region table for sample 2 : Sample 2

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	295	56	73.9	235,886.1	100	
miRNA	10	40	27	29.5	160,872.0	68	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
 Modified: 1/8/2015 3:06:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

Small RNA Concentration [pg/μl]:	571.9	Result Flagging Color:	
miRNA Concentration [pg/μl]:	270.5	Result Flagging Label:	47 % miRNA; Concentration: 270.50 pg/μl
miRNA / Small RNA Ratio [%]:	47		

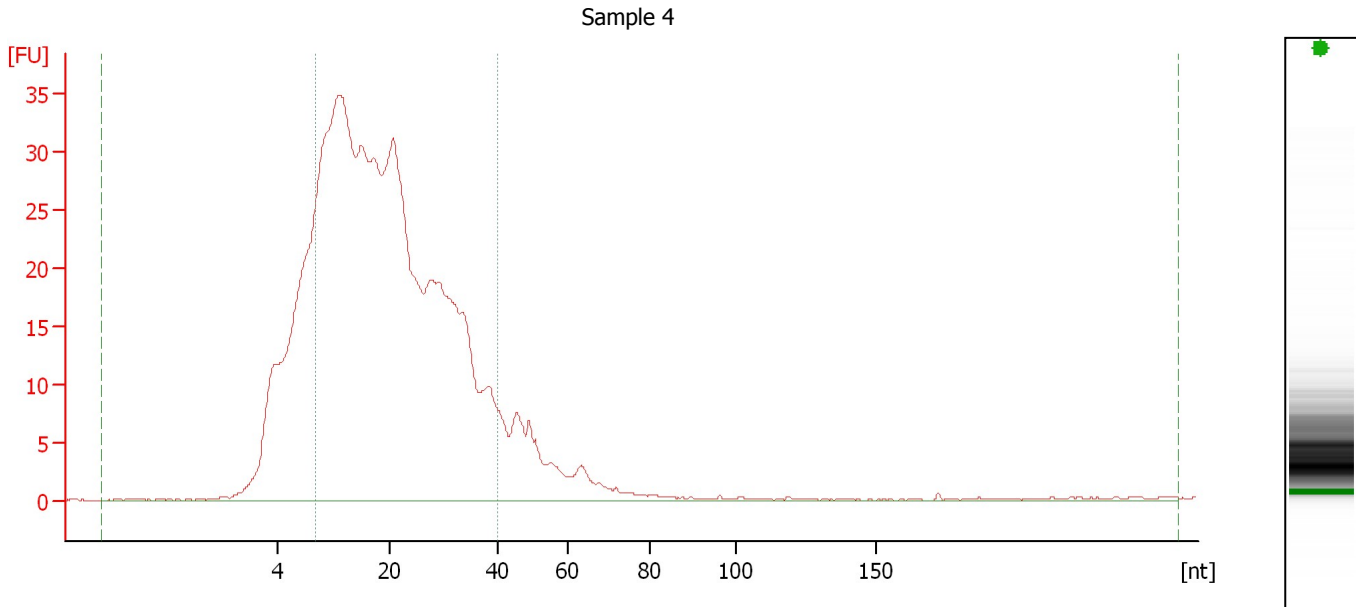
Region table for sample 3 : Sample 3

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	265	64	100.0	571.9	100	
miRNA	10	40	17	44.0	270.5	47	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
 Modified: 1/8/2015 3:06:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

Small RNA Concentration [pg/μl]:	13,574.1	Result Flagging Color:	
miRNA Concentration [pg/μl]:	11,419.9	Result Flagging Label:	84 % miRNA; Concentration: 11419.90 pg/μl
miRNA / Small RNA Ratio [%]:	84		

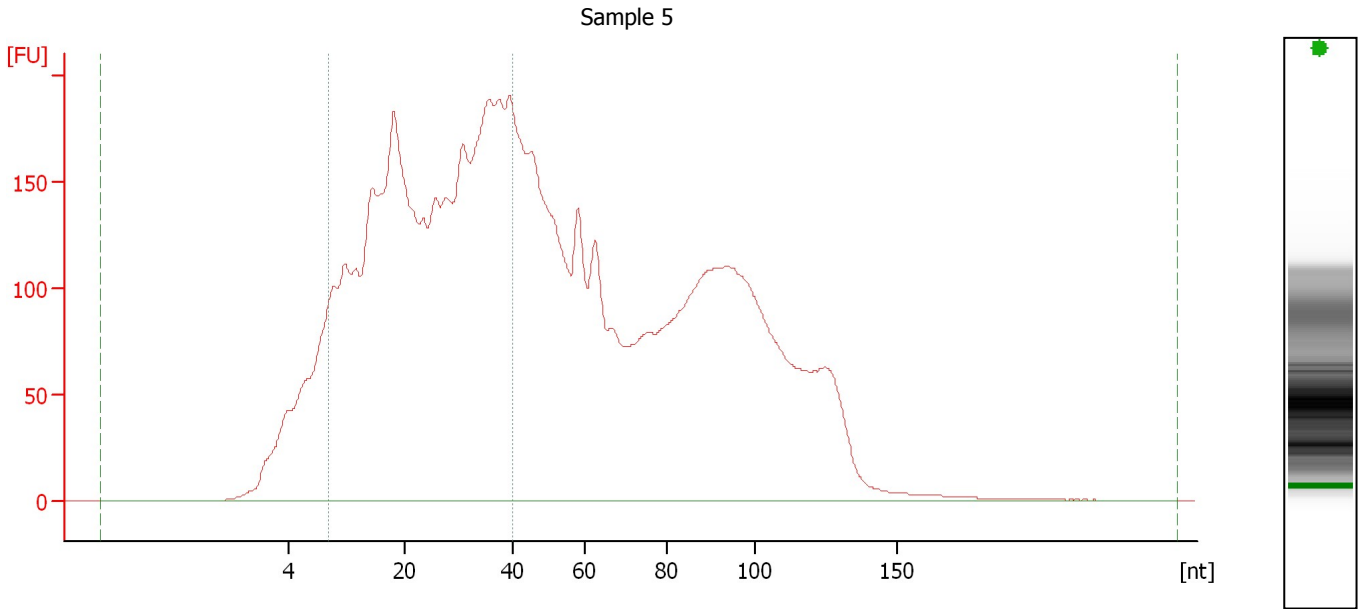
Region table for sample 4 : Sample 4

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	258	23	99.1	13,574.1	100	
miRNA	10	40	21	38.6	11,419.9	84	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
 Modified: 1/8/2015 3:06:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

Small RNA Concentration [pg/μl]:	21,513.8	Result Flagging Color:	
miRNA Concentration [pg/μl]:	13,923.4	Result Flagging Label:	65 % miRNA; Concentration: 13923.40 pg/μl
miRNA / Small RNA Ratio [%]:	65		

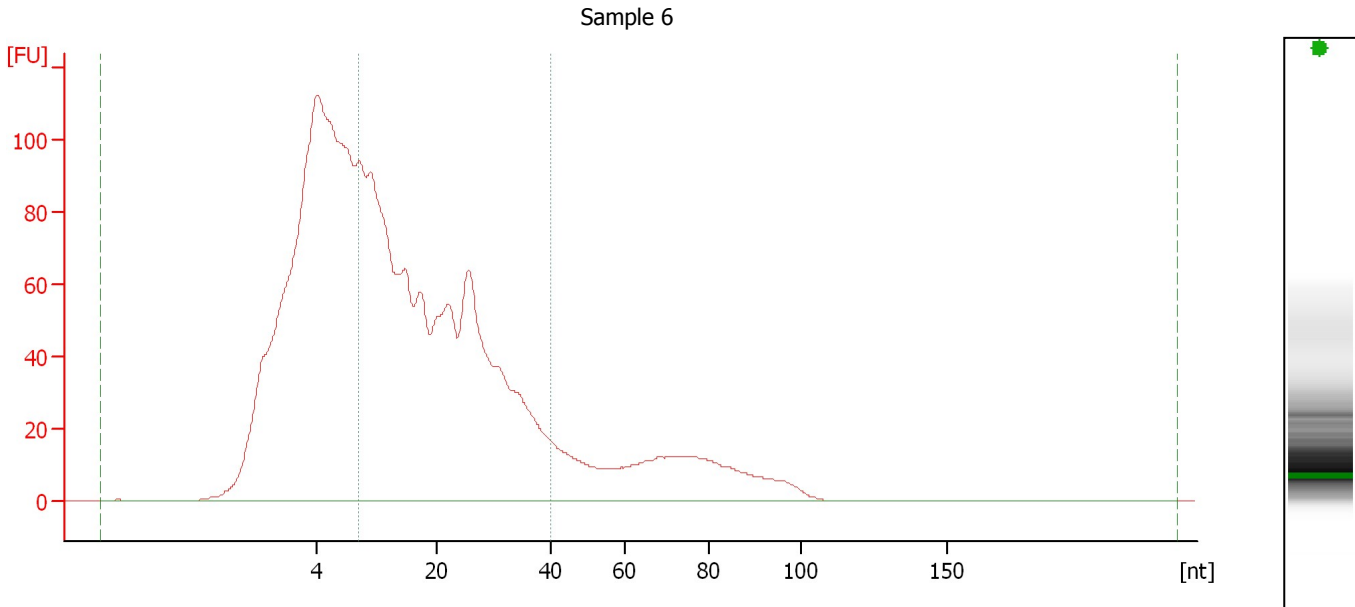
Region table for sample 5 : Sample 5

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	248	52	67.4	21,513.8	100	
miRNA	10	40	25	35.6	13,923.4	65	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
 Modified: 1/8/2015 3:06:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

Small RNA Concentration [pg/μl]:	776.1	Result Flagging Color:	████████
miRNA Concentration [pg/μl]:	687.1	Result Flagging Label:	89 % miRNA; Concentration: 687.10 pg/μl
miRNA / Small RNA Ratio [%]:	89		

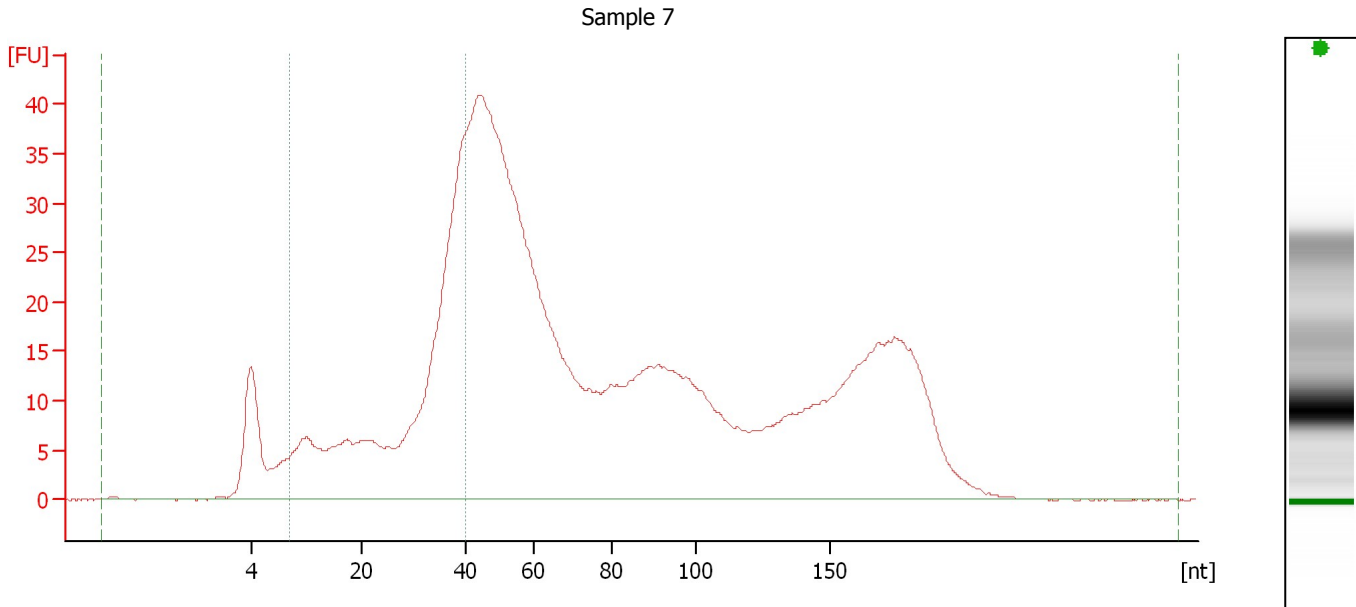
Region table for sample 6 : Sample 6

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	228	19	100.0	776.1	100	████
miRNA	10	40	20	40.0	687.1	89	████

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
 Modified: 1/8/2015 3:06:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

Small RNA Concentration [pg/μl]:	9,283.8	Result Flagging Color:	
miRNA Concentration [pg/μl]:	3,315.4	Result Flagging Label:	36 % miRNA; Concentration: 3315.40 pg/μl
miRNA / Small RNA Ratio [%]:	36		

Region table for sample 7 : Sample 7

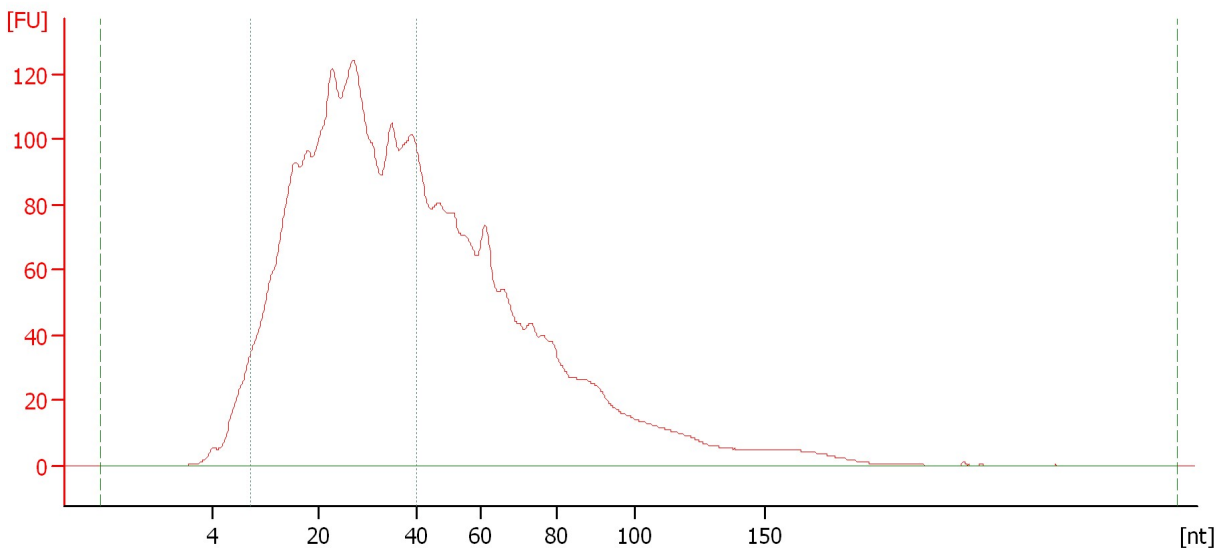
Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	279	81	64.1	9,283.8	100	
miRNA	10	40	30	31.8	3,315.4	36	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
 Modified: 1/8/2015 3:06:31 PM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

Small RNA Concentration [pg/μl]:	191,425.4	Result Flagging Color:	
miRNA Concentration [pg/μl]:	144,007.1	Result Flagging Label:	75 % miRNA; Concentration: 144007.10 pg/μl
miRNA / Small RNA Ratio [%]:	75		

Region table for sample 8 : Sample 8

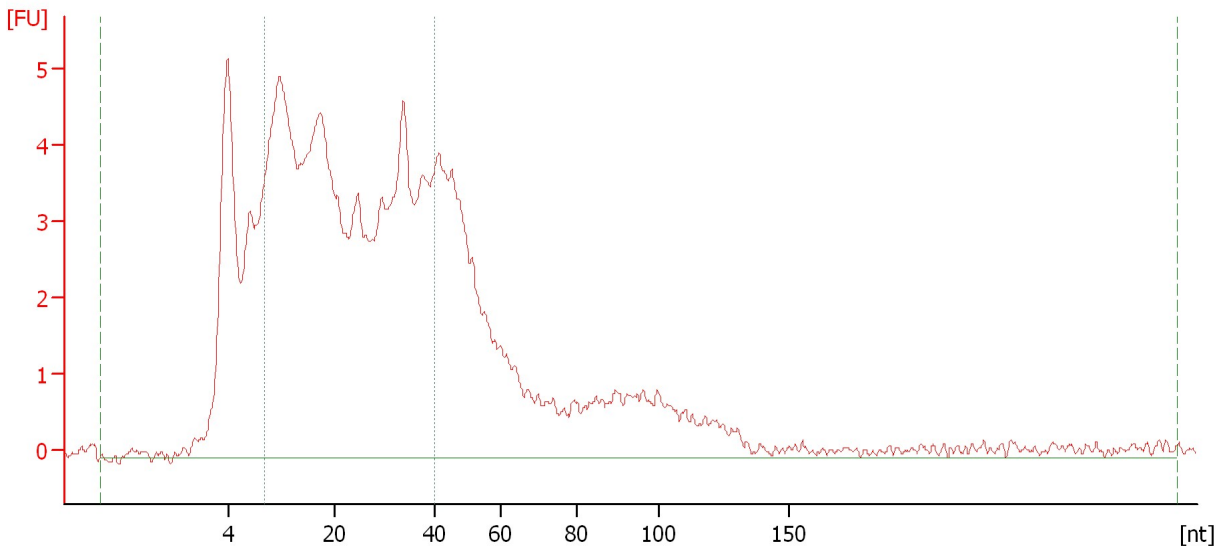
Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	311	45	68.8	191,425.4	100	
miRNA	10	40	25	32.6	144,007.1	75	

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
 Modified: 1/8/2015 3:06:31 PM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

Small RNA Concentration [pg/μl]:	5,266.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	3,883.7	Result Flagging Label:	74 % miRNA; Concentration: 3883.70 pg/μl
miRNA / Small RNA Ratio [%]:	74		

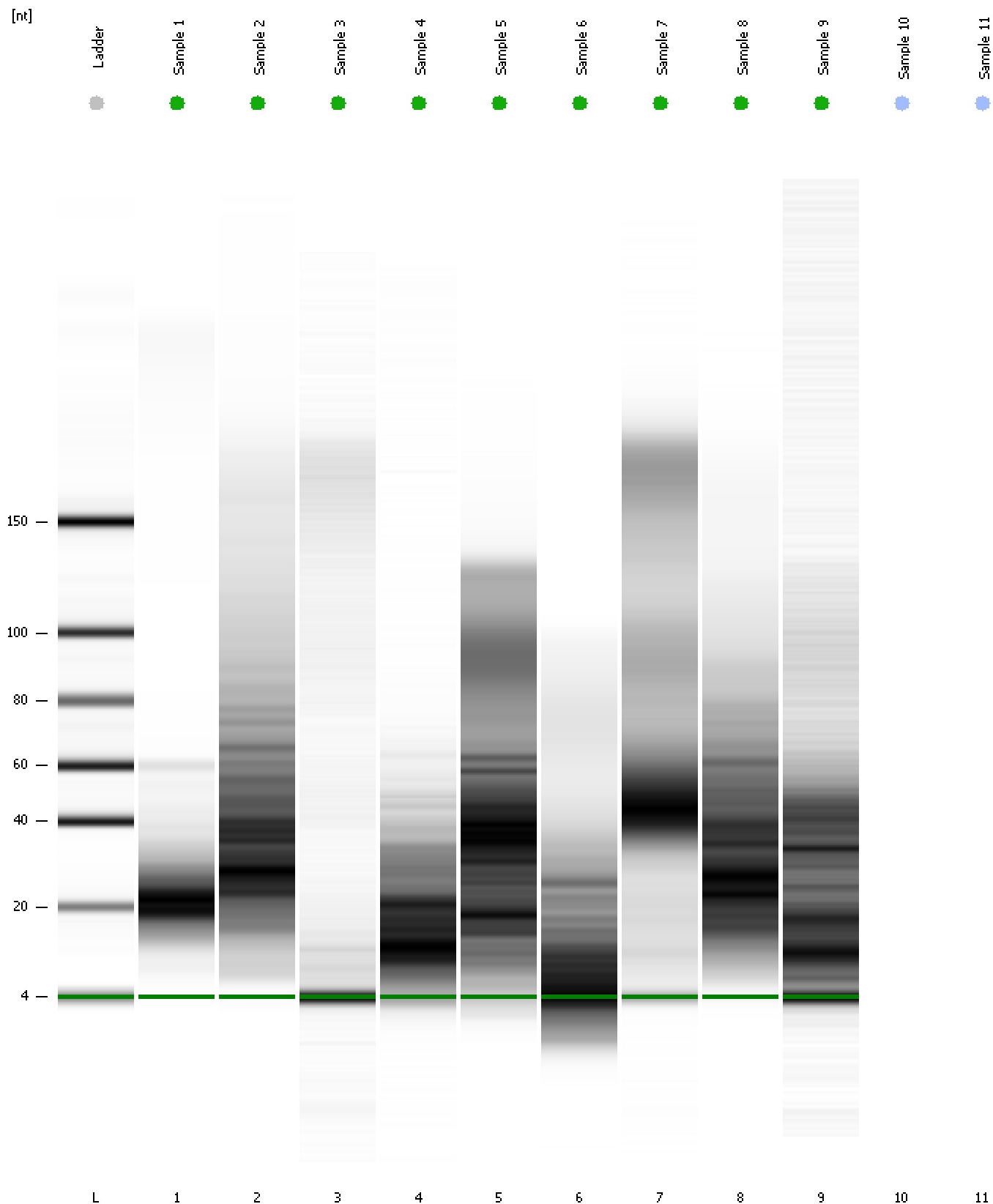
Region table for sample 9 : Sample 9

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	298	42	100.0	5,266.6	100	
miRNA	10	40	23	39.7	3,883.7	74	

Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
Modified: 1/8/2015 3:06:31 PM

Gel Image



Assay Class: Small RNA
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
Modified: 1/8/2015 3:06:31 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Small RNA
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad

Created: 1/8/2015 2:38:17 PM
 Modified: 1/8/2015 3:06:31 PM

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		1/8/2015 3:06:24 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-08\2015-01-08_004.xad)		Instrument	Run		1/8/2015 2:38:22 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/8/2015 2:38:22 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/8/2015 2:38:22 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/8/2015 2:38:22 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/8/2015 2:38:22 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/8/2015 2:38:22 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/8/2015 2:38:22 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1