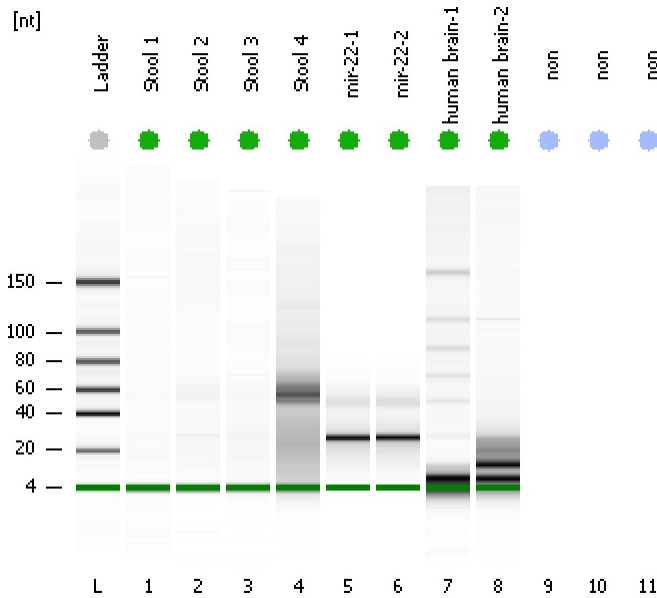


Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
Modified: 3/20/2017 4:00:13 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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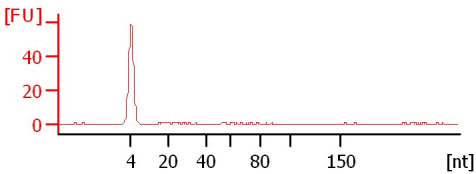
Chip Information:

Chip Lot #:

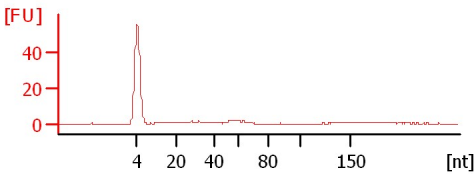
Reagent Kit Lot #:

Chip Comments:

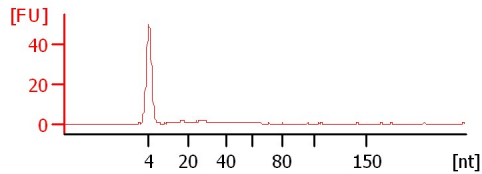
Stool 1
43 % miRNA; Concentration: 56.70 pg/µl



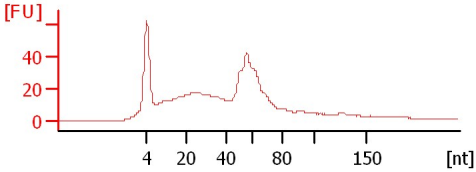
Stool 2
51 % miRNA; Concentration: 150.70 pg/µl



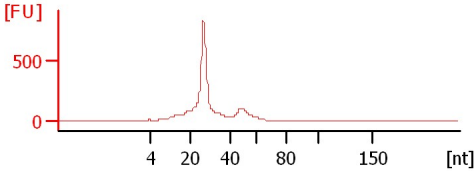
Stool 3
66 % miRNA; Concentration: 154.10 pg/µl



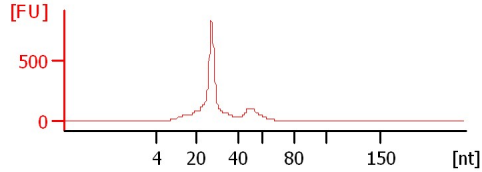
Stool 4
58 % miRNA; Concentration: 1057 pg/µl



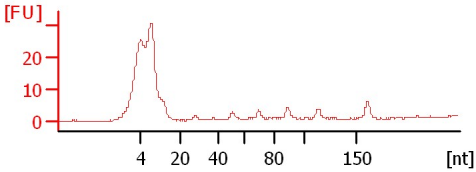
mir-22-1
89 % miRNA; Concentration: 42348.40 p...



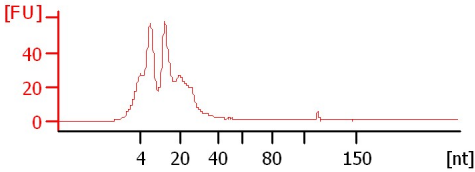
mir-22-2
89 % miRNA; Concentration: 47540.50 p...



human brain-1
31 % miRNA; Concentration: 250.50 pg/µl















human brain-2
71 % miRNA; Concentration: 2945.50 pg/µl



Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
 Modified: 3/20/2017 4:00:13 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Stool 1		✓	43 % miRNA; Concentration: 56.70 pg/μl	
Stool 2		✓	51 % miRNA; Concentration: 150.70 pg/μl	
Stool 3		✓	66 % miRNA; Concentration: 154.10 pg/μl	
Stool 4		✓	58 % miRNA; Concentration: 1057 pg/μl	
mir-22-1		✓	89 % miRNA; Concentration: 42348.40 pg/μl	
mir-22-2		✓	89 % miRNA; Concentration: 47540.50 pg/μl	
human brain-1		✓	31 % miRNA; Concentration: 250.50 pg/μl	
human brain-2		✓	71 % miRNA; Concentration: 2945.50 pg/μl	
non				
non				
non				
Ladder		✓	Number of Peaks: 6	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
Modified: 3/20/2017 4:00:13 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/μl] : 2500
Lower Marker Concentration [pg/μl] : 500
Upper Marker Concentration [pg/μl] : 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

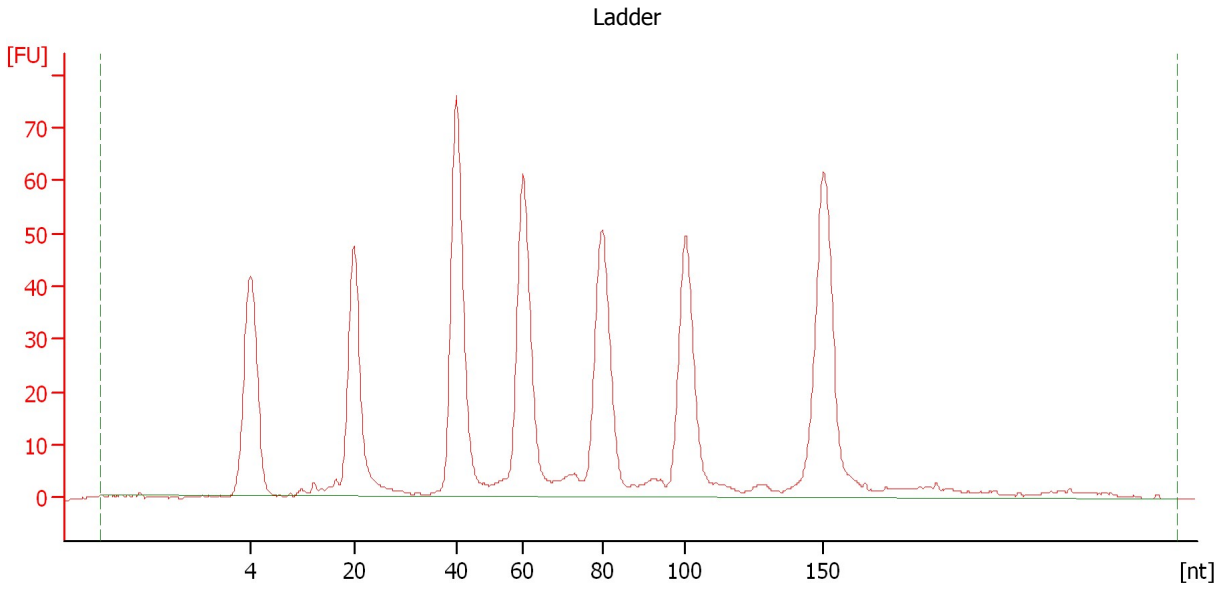
Ladder

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

Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
Modified: 3/20/2017 4:00:13 PM

Electropherogram Summary



Overall Results for Ladder

Result Flagging Color:

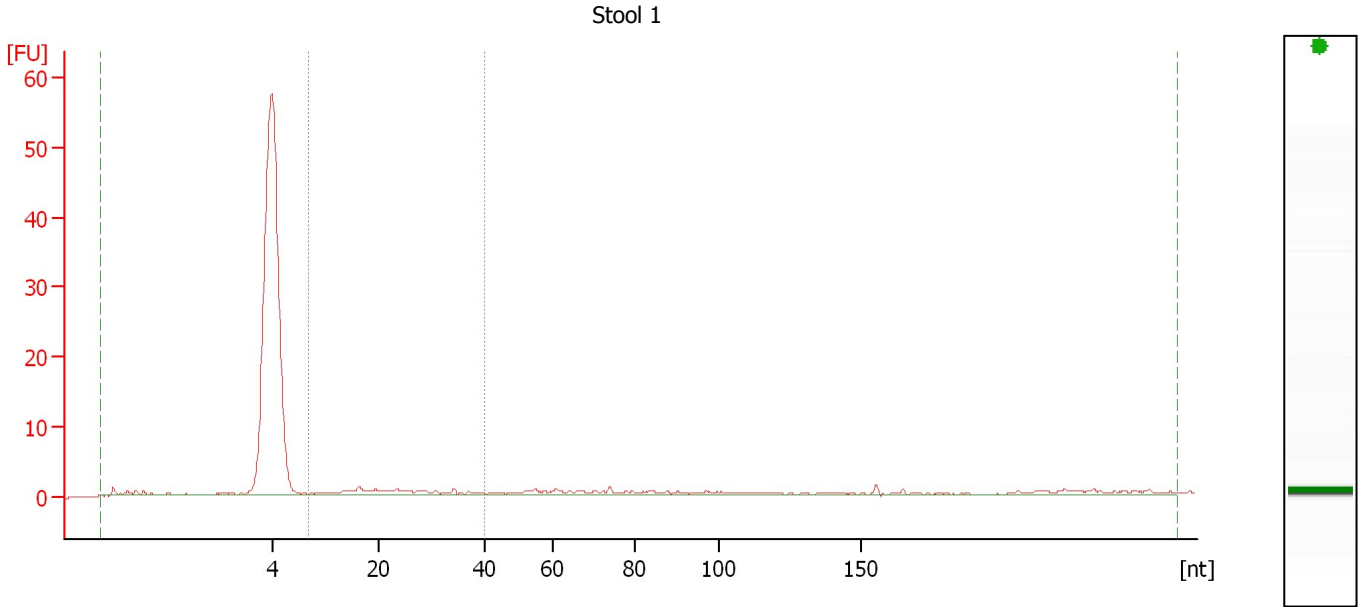
Result Flagging Label:

Number of Peaks: 6

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
 Modified: 3/20/2017 4:00:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Stool 1

Small RNA Concentration [pg/μl]:	130.9	Result Flagging Color:	
miRNA Concentration [pg/μl]:	56.7	Result Flagging Label:	43 % miRNA; Concentration: 56.70 pg/μl
miRNA / Small RNA Ratio [%]:	43		

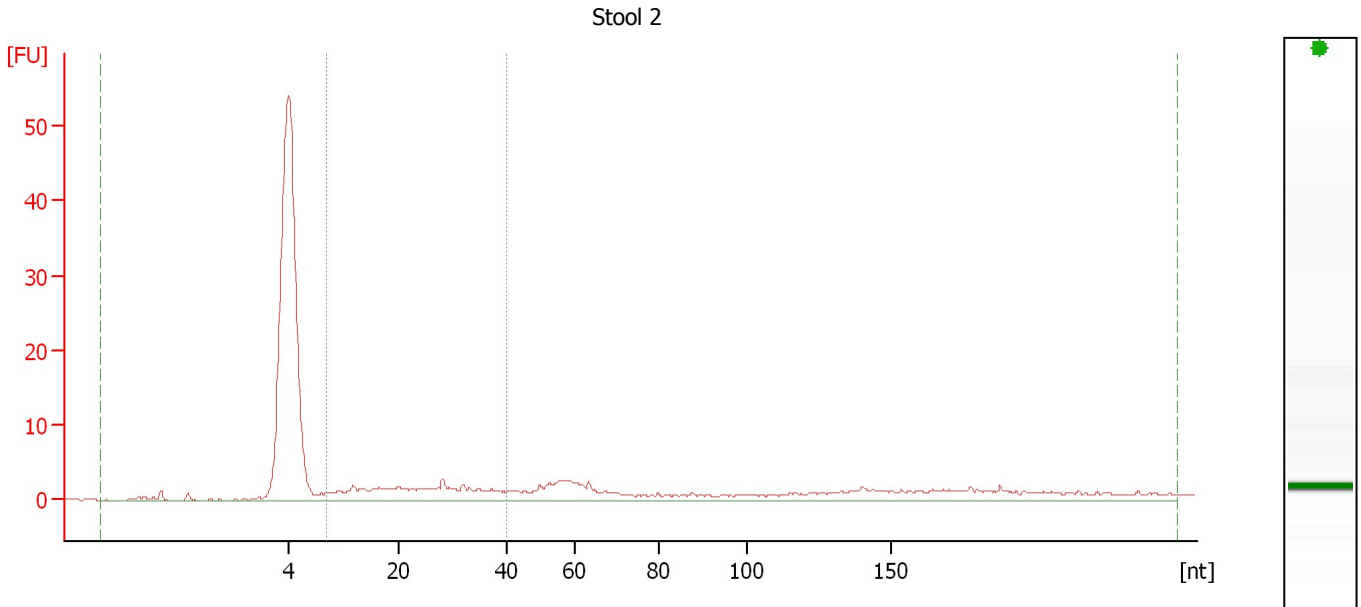
Region table for sample 1 : Stool 1

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	260	35	100.0	130.9	100	
miRNA	10	40	23	34.0	56.7	43	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
 Modified: 3/20/2017 4:00:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Stool 2

Small RNA Concentration [pg/μl]:	293.8	Result Flagging Color:	
miRNA Concentration [pg/μl]:	150.7	Result Flagging Label:	51 % miRNA; Concentration: 150.70 pg/μl
miRNA / Small RNA Ratio [%]:	51		

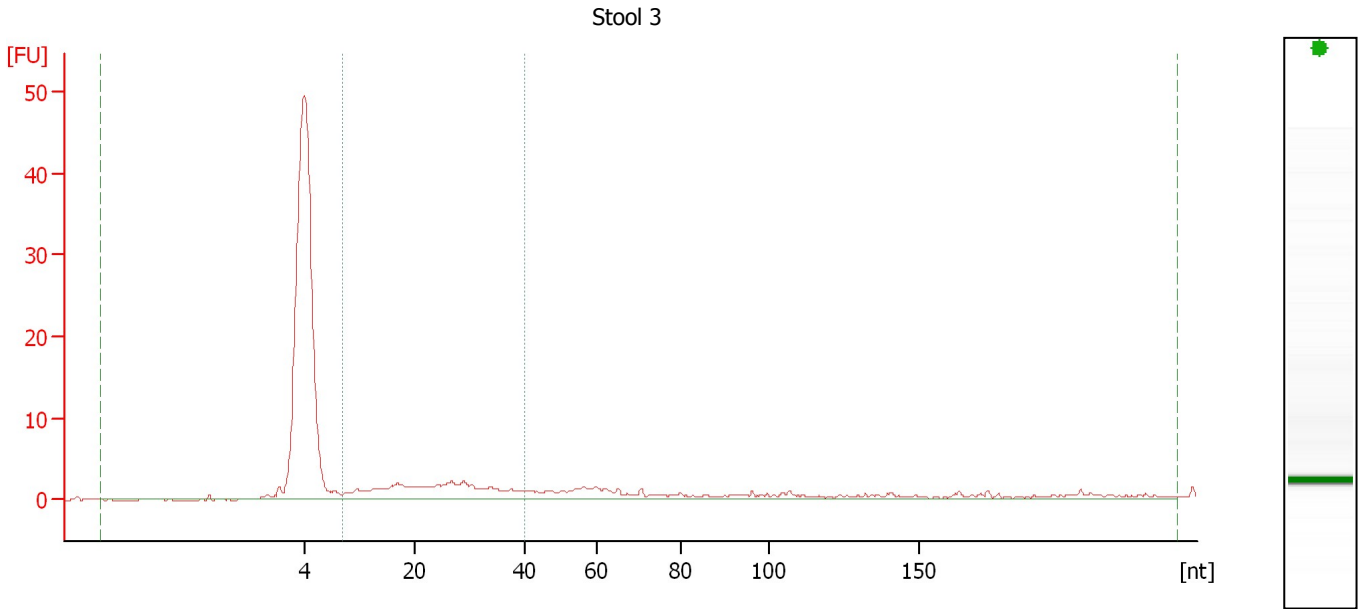
Region table for sample 2 : Stool 2

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	248	53	100.0	293.8	100	
miRNA	10	40	24	34.7	150.7	51	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
 Modified: 3/20/2017 4:00:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Stool 3

Small RNA Concentration [pg/μl]:	233.9	Result Flagging Color:	
miRNA Concentration [pg/μl]:	154.1	Result Flagging Label:	66 % miRNA; Concentration: 154.10 pg/μl
miRNA / Small RNA Ratio [%]:	66		

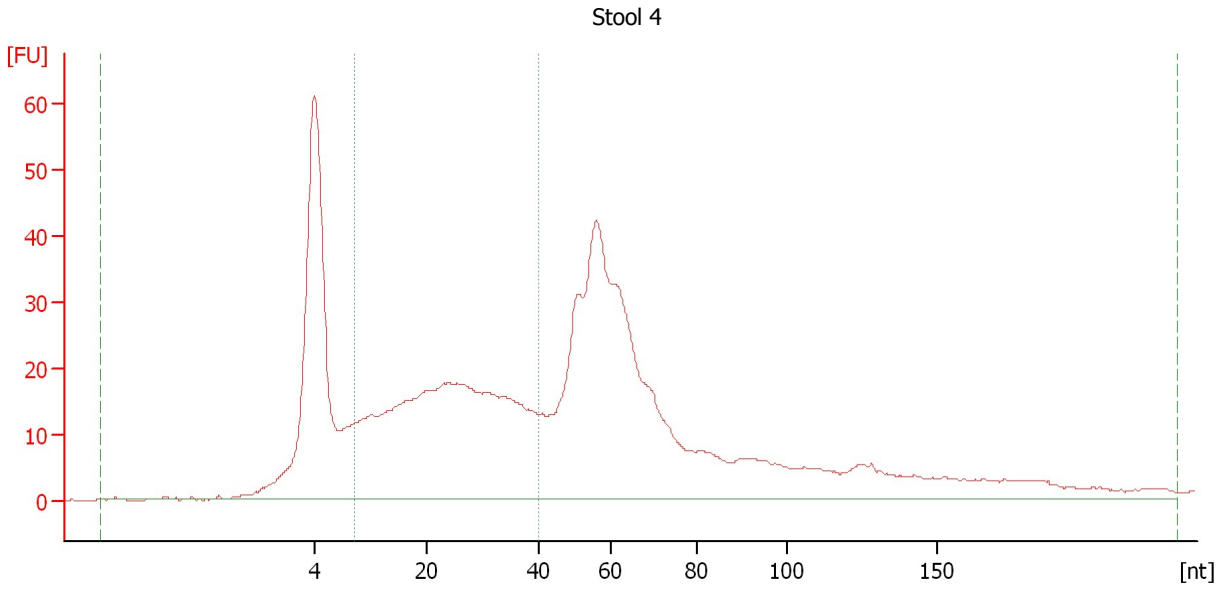
Region table for sample 3 : Stool 3

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	237	31	100.0	233.9	100	
miRNA	10	40	24	33.3	154.1	66	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
 Modified: 3/20/2017 4:00:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Stool 4

Small RNA Concentration [pg/μl]:	1,837.7	Result Flagging Color:	
miRNA Concentration [pg/μl]:	1,057.0	Result Flagging Label:	58 % miRNA; Concentration: 1057 pg/μl
miRNA / Small RNA Ratio [%]:	58		

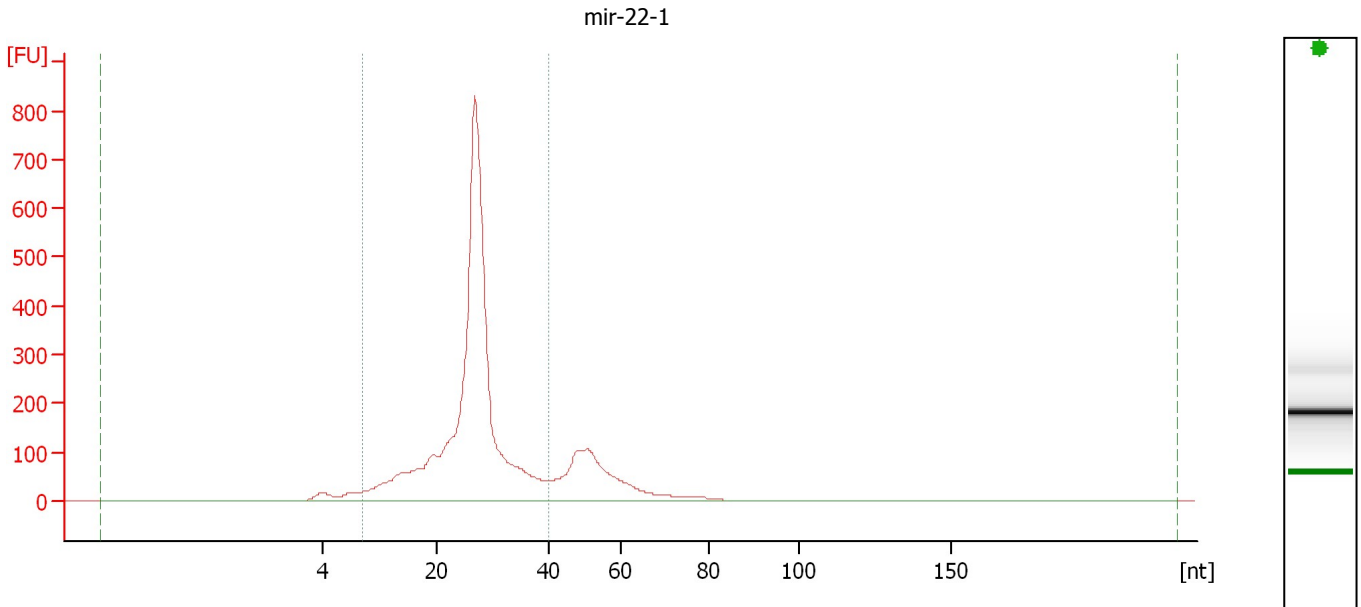
Region table for sample 4 : Stool 4

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	230	52	87.8	1,837.7	100	
miRNA	10	40	24	35.2	1,057.0	58	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
 Modified: 3/20/2017 4:00:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : mir-22-1

Small RNA Concentration [pg/μl]:	47,523.8	Result Flagging Color:	
miRNA Concentration [pg/μl]:	42,348.4	Result Flagging Label:	89 % miRNA; Concentration: 42348.40 pg/μl
miRNA / Small RNA Ratio [%]:	89		

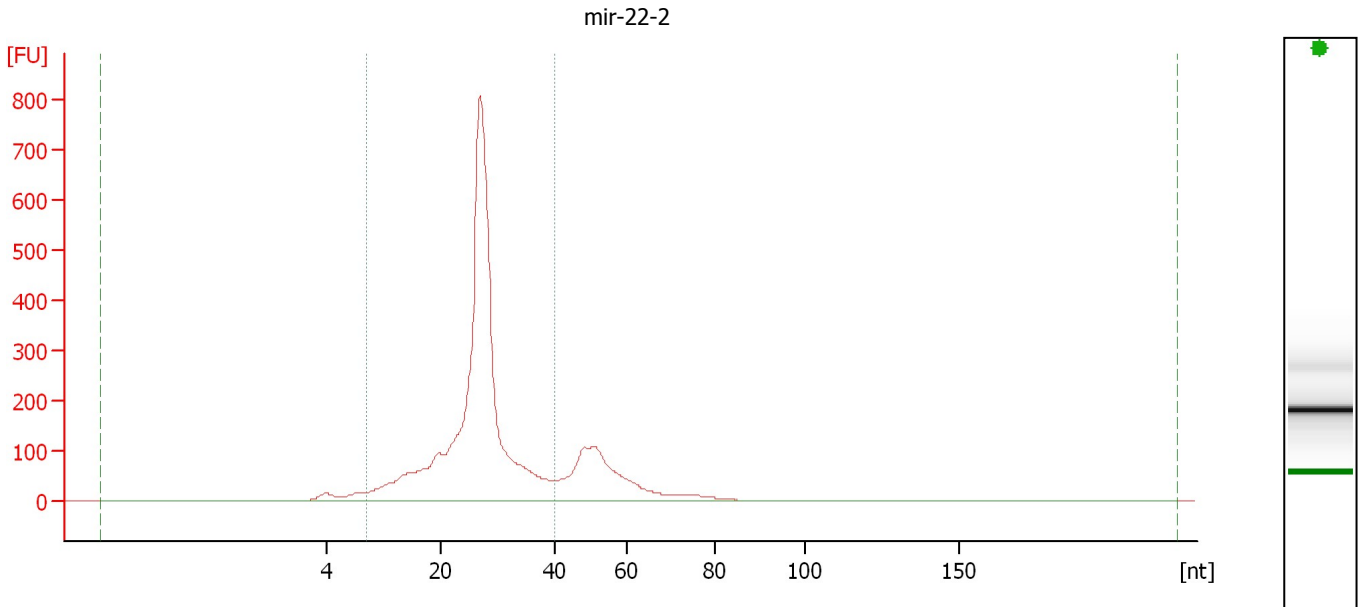
Region table for sample 5 : mir-22-1

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	224	31	44.0	47,523.8	100	
miRNA	10	40	26	21.3	42,348.4	89	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
 Modified: 3/20/2017 4:00:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : mir-22-2

Small RNA Concentration [pg/μl]:	53,528.5	Result Flagging Color:	
miRNA Concentration [pg/μl]:	47,540.5	Result Flagging Label:	89 % miRNA; Concentration: 47540.50 pg/μl
miRNA / Small RNA Ratio [%]:	89		

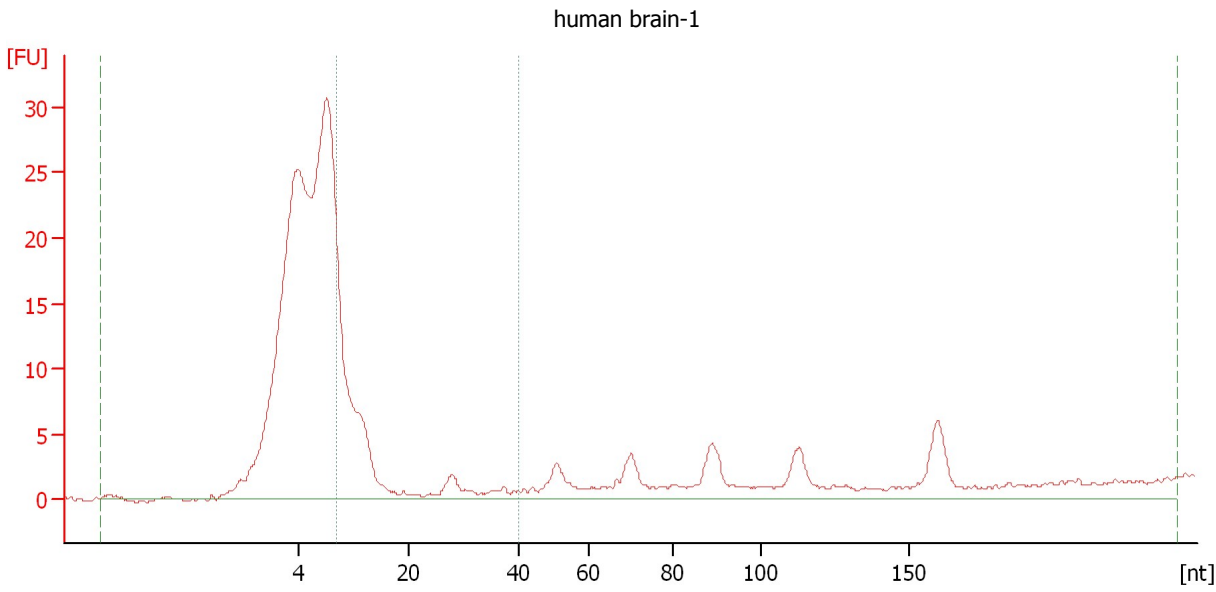
Region table for sample 6 : mir-22-2

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	221	32	43.2	53,528.4	100	
miRNA	10	40	26	21.0	47,540.5	89	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
 Modified: 3/20/2017 4:00:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : human brain-1

Small RNA Concentration [pg/μl]:	800.6	Result Flagging Color:	
miRNA Concentration [pg/μl]:	250.5	Result Flagging Label:	31 % miRNA; Concentration: 250.50 pg/μl
miRNA / Small RNA Ratio [%]:	31		

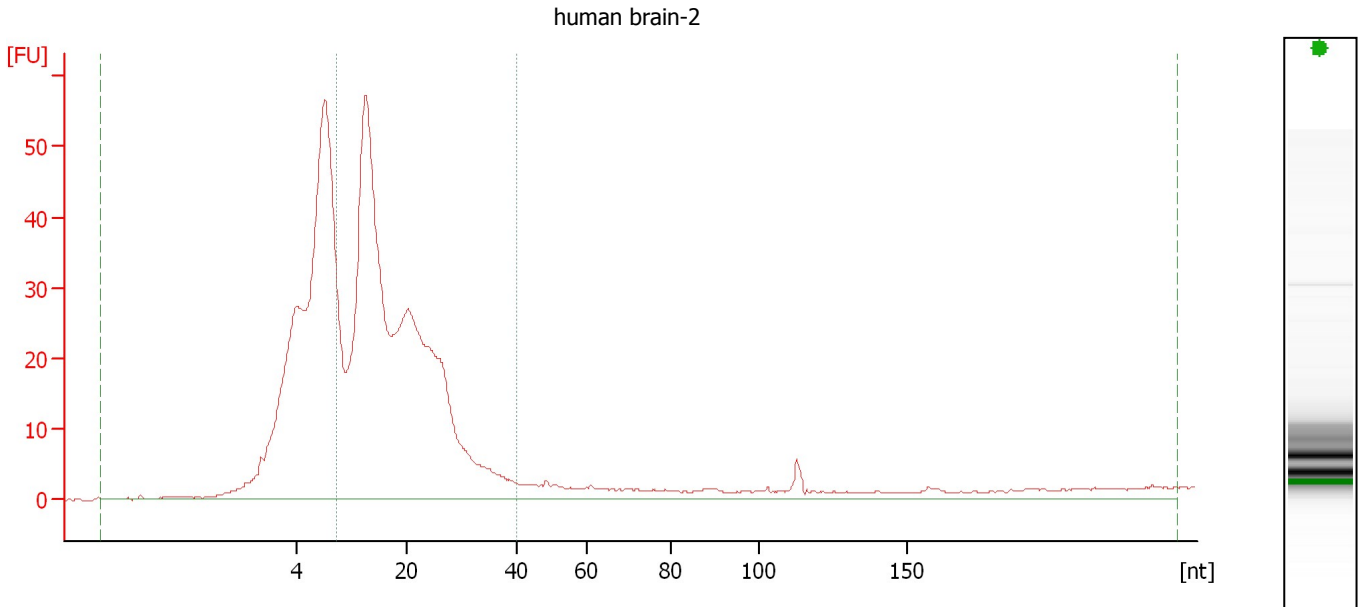
Region table for sample 7 : human brain-1

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Col or
Small RNA	0	241	46	100.0	800.6	100	
miRNA	10	40	15	50.2	250.5	31	

Assay Class: Small RNA
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
 Modified: 3/20/2017 4:00:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : human brain-2

Small RNA Concentration [pg/μl]:	4,128.0	Result Flagging Color:	
miRNA Concentration [pg/μl]:	2,945.5	Result Flagging Label:	71 % miRNA; Concentration: 2945.50 pg/μl
miRNA / Small RNA Ratio [%]:	71		

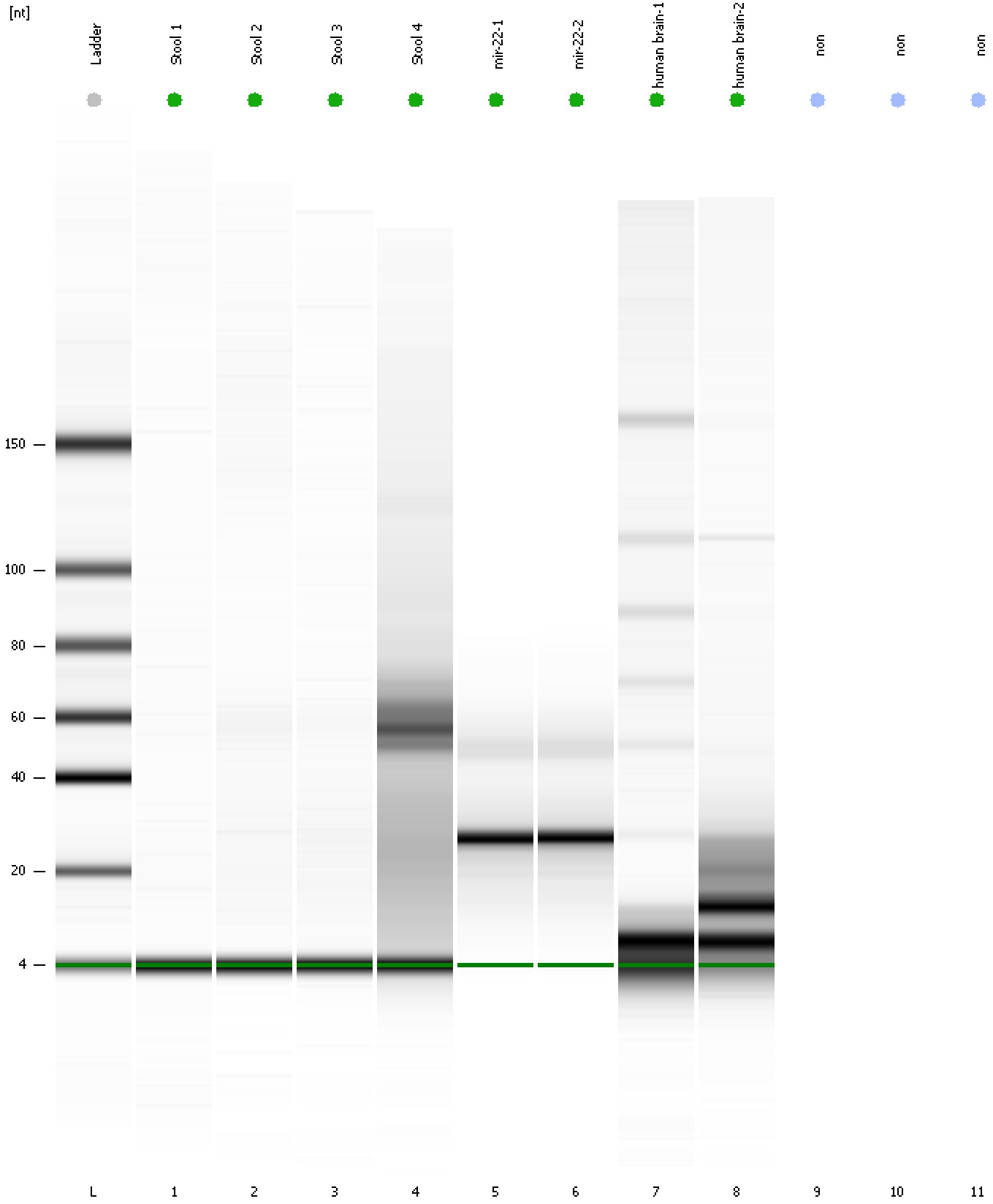
Region table for sample 8 : human brain-2

Name	From [nt]	To [nt]	Average Size [nt]	Size distribution in CV [%]	Conc. [pg/μl]	% of Total	Color
Small RNA	0	242	28	100.0	4,128.0	100	
miRNA	10	40	19	34.6	2,945.5	71	

Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
Modified: 3/20/2017 4:00:13 PM

Gel Image



Assay Class: Small RNA
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
Modified: 3/20/2017 4:00:13 PM

Invalid Samples

Sample 9 has not been run, no results available.

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:\... bioanalyzer\2100 expert\data\2017-03-20\2017-03-20_002.xad

Created: 3/20/2017 3:33:55 PM
 Modified: 3/20/2017 4:00:13 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		3/20/2017 4:00:07 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\2017-03-20\2017-03-20_002.xad)		Instrument	Run		3/20/2017 3:34:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/20/2017 3:34:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/20/2017 3:34:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/20/2017 3:34:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/20/2017 3:34:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/20/2017 3:34:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/20/2017 3:34:00 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1