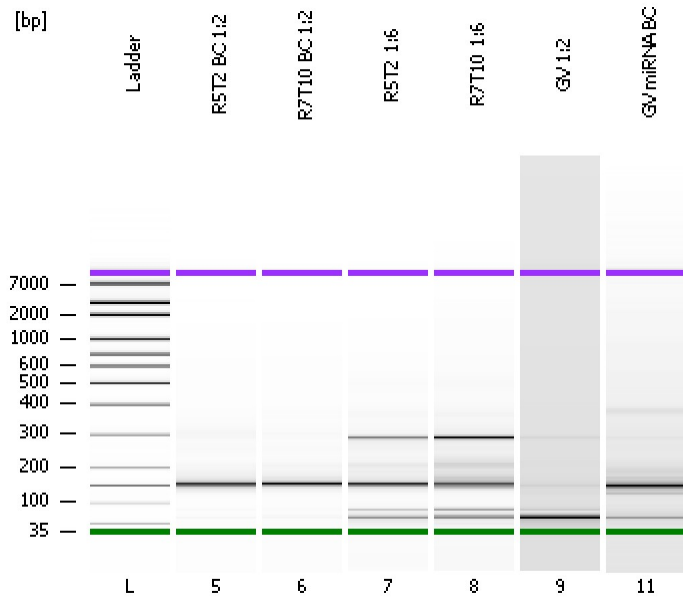


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad

Created: 5/3/2016 12:39:01 PM
 Modified: 5/4/2016 12:23:11 PM

Electrophoresis File Run Summary



Instrument Information:

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

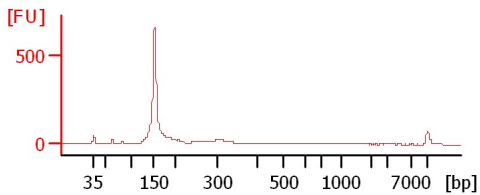
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
 Assay Class: High Sensitivity DNA Assay
 Version: 1.03
 Assay Comments: Copyright © 2003-2010 Agilent Technologies

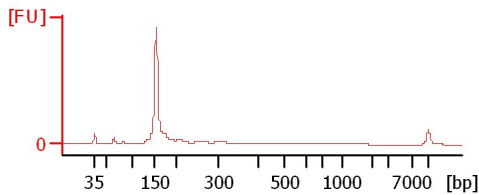
Chip Information:

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

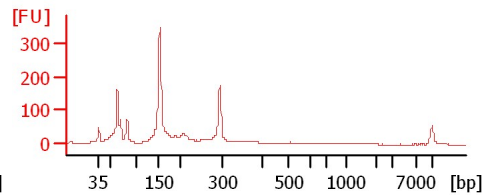
R5T2 BC 1:2



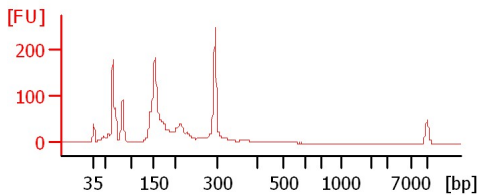
R7T10 BC 1:2



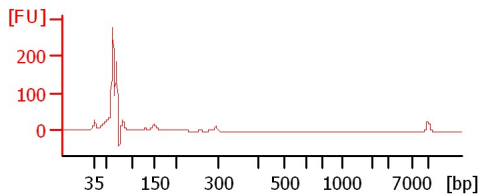
R5T2 1:6



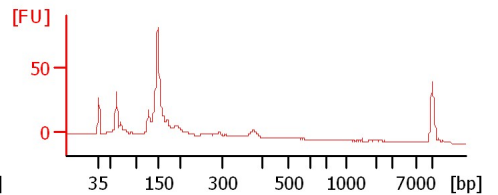
R7T10 1:6



GV 1:2



GV miRNA BC



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad

Created: 5/3/2016 12:39:01 PM
 Modified: 5/4/2016 12:23:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
R5T2 BC 1:2		<input type="checkbox"/>	✓			
R7T10 BC 1:2		<input type="checkbox"/>	✓			
R5T2 1:6		<input type="checkbox"/>	✓			
R7T10 1:6		<input type="checkbox"/>	✓			
GV 1:2		<input type="checkbox"/>	✓			
GV miRNA BC		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad

Created: 5/3/2016 12:39:01 PM
Modified: 5/4/2016 12:23:11 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/μl] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/μl] : 125
Upper Marker Concentration [pg/μl] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 5
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

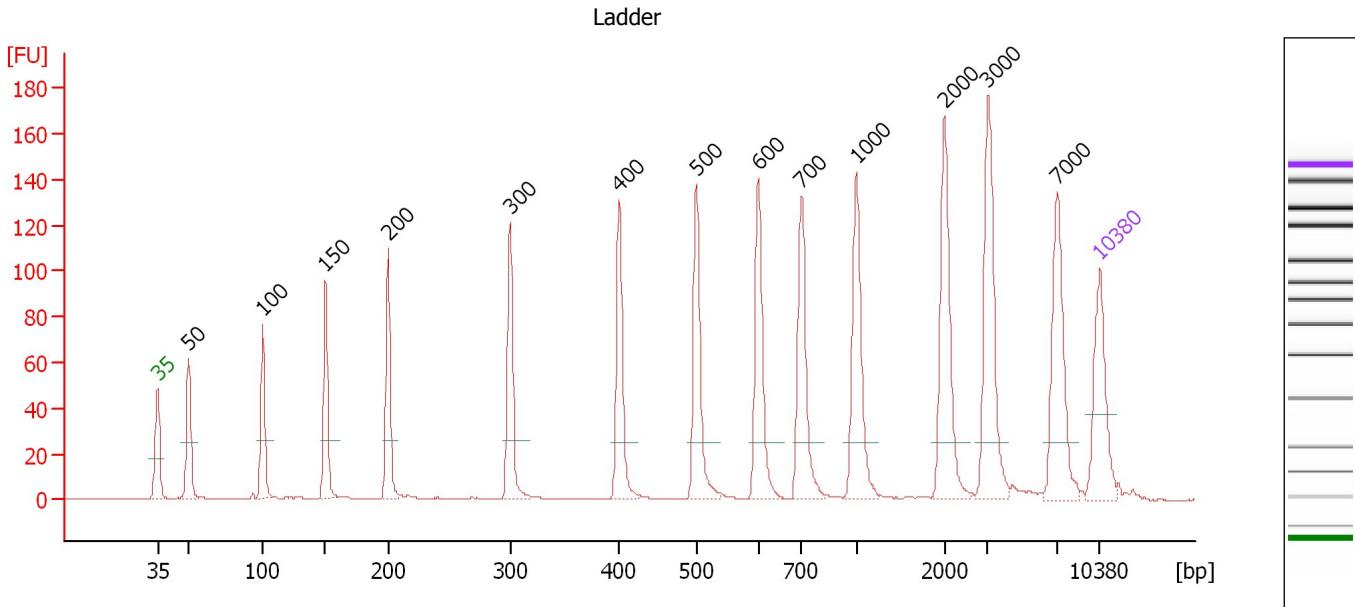
Ladder

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad

Created: 5/3/2016 12:39:01 PM
 Modified: 5/4/2016 12:23:11 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

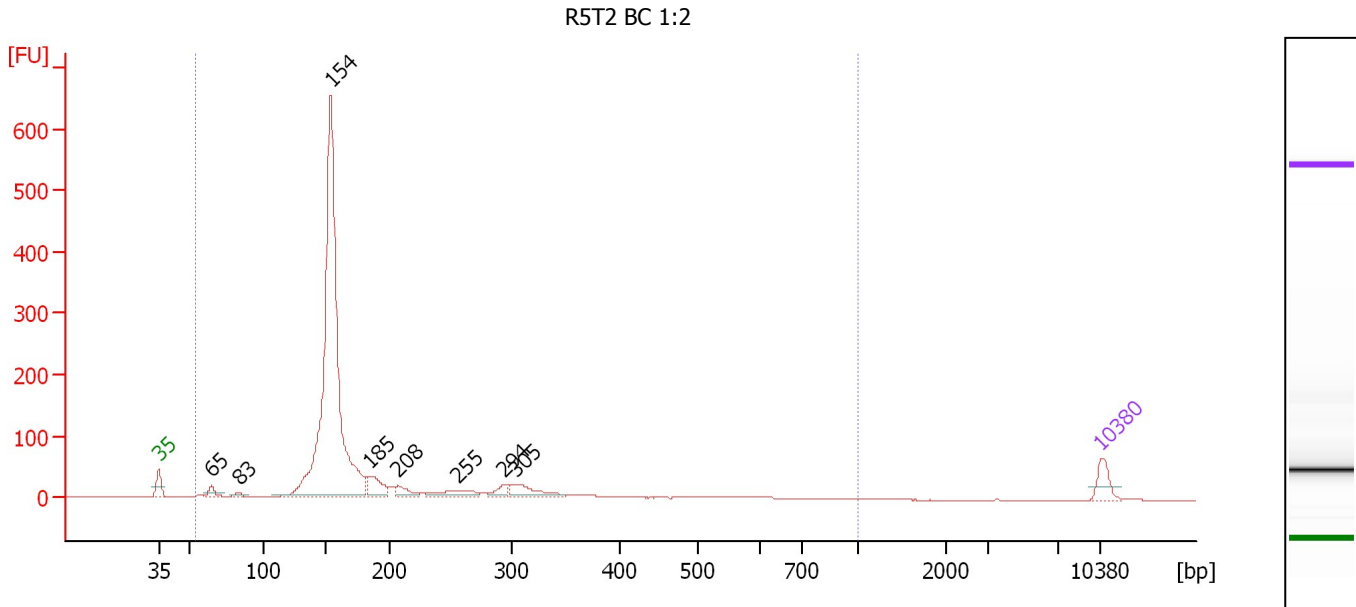
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.31
3	100	150.00	2,272.7	Ladder Peak	50.81
4	150	150.00	1,515.2	Ladder Peak	55.47
5	200	150.00	1,136.4	Ladder Peak	60.14
6	300	150.00	757.6	Ladder Peak	69.17
7	400	150.00	568.2	Ladder Peak	77.32
8	500	150.00	454.5	Ladder Peak	83.01
9	600	150.00	378.8	Ladder Peak	87.63
10	700	150.00	324.7	Ladder Peak	90.83
11	1,000	150.00	227.3	Ladder Peak	94.92
12	2,000	150.00	113.6	Ladder Peak	101.42
13	3,000	150.00	75.8	Ladder Peak	104.67
14	7,000	150.00	32.5	Ladder Peak	109.85
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad

Created: 5/3/2016 12:39:01 PM
 Modified: 5/4/2016 12:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : R5T2 BC 1:2

Number of peaks found: 8 Corr. Area 1: 1,830.4
 Noise: 0.3

Peak table for sample 5 : R5T2 BC 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	65	51.08	1,196.7		46.92
3	83	24.71	450.3		48.96
4	154	3,160.22	31,177.2		55.81
5	185	149.17	1,221.7		58.74
6	208	74.01	540.1		60.82
7	255	107.90	640.1		65.14
8	294	56.40	290.8		68.62
9	305	134.40	668.2		69.56
10	10,380	75.00	10.9	Upper Marker	113.00

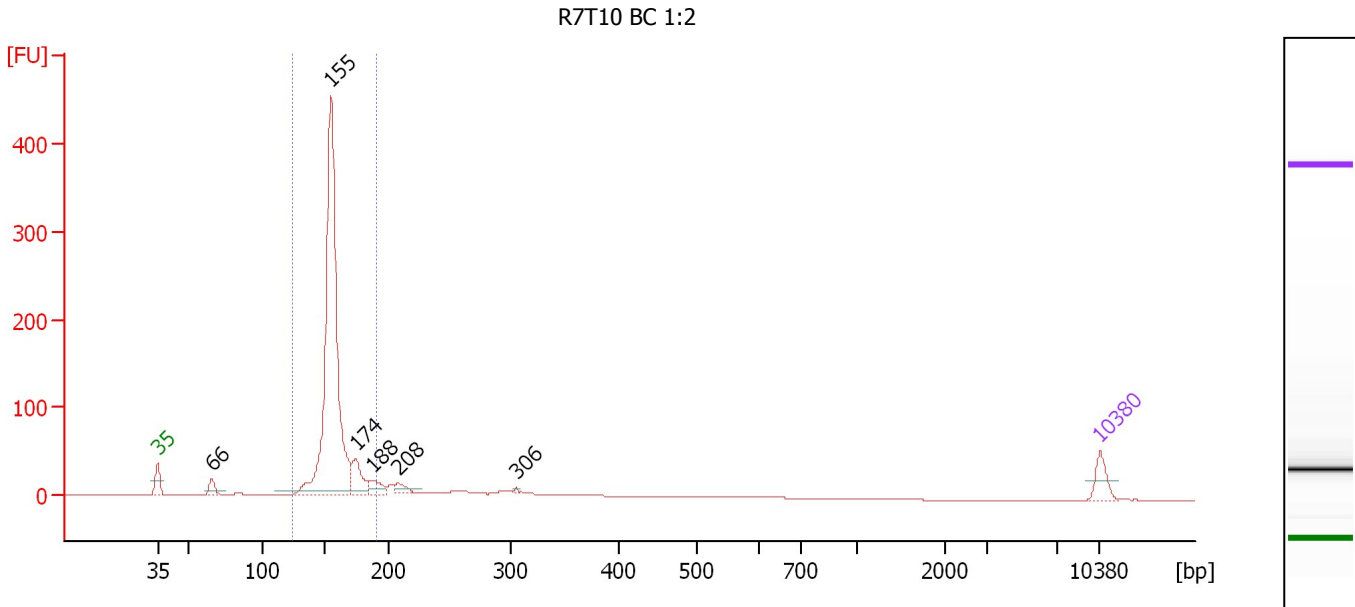
Region table for sample 5 : R5T2 BC 1:2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
54	1,000	190	1,830.4	38,547.6	4,096.81	99	47.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad

Created: 5/3/2016 12:39:01 PM
 Modified: 5/4/2016 12:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : R7T10 BC 1:2

Number of peaks found: 6 Corr. Area 1: 888.0
 Noise: 0.2

Peak table for sample 6 : R7T10 BC 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	66	75.08	1,731.8		47.03
3	155	2,402.27	23,531.7		55.91
4	174	177.70	1,546.0		57.73
5	188	76.39	614.9		59.04
6	208	56.75	413.5		60.85
7	306	7.46	37.0		69.63
8	10,380	75.00	10.9	Upper Marker	113.00

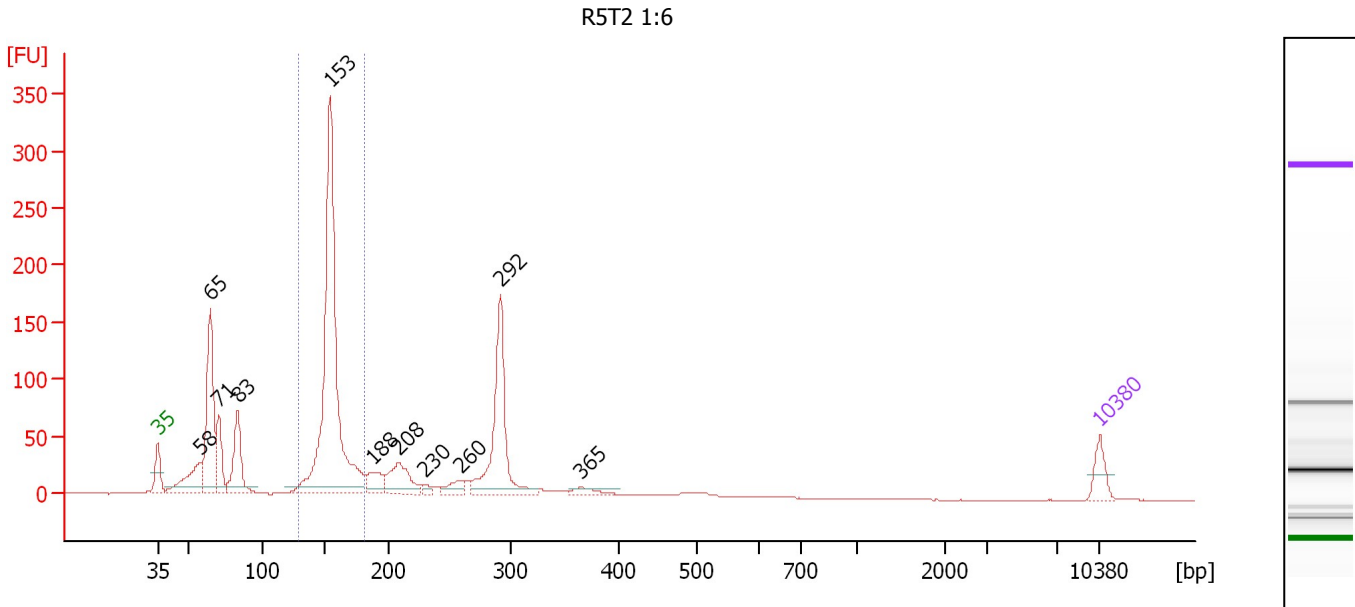
Region table for sample 6 : R7T10 BC 1:2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
123	191	157	888.0	26,121.8	2,698.37	80	6.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad

Created: 5/3/2016 12:39:01 PM
 Modified: 5/4/2016 12:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : R5T2 1:6

Number of peaks found: 11 Corr. Area 1: 641.7
 Noise: 0.2

Peak table for sample 7 : R5T2 1:6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	58	267.31	6,984.5		46.19
3	65	663.83	15,589.3		46.91
4	71	216.44	4,646.0		47.57
5	83	335.88	6,118.0		48.96
6	153	2,063.66	20,374.9		55.80
7	188	121.53	978.4		59.04
8	208	228.35	1,661.0		60.89
9	230	21.62	142.1		62.89
10	260	73.47	428.1		65.56
11	292	667.13	3,456.2		68.49
12	365	45.27	188.0		74.45
13	10,380	75.00	10.9	Upper Marker	113.00

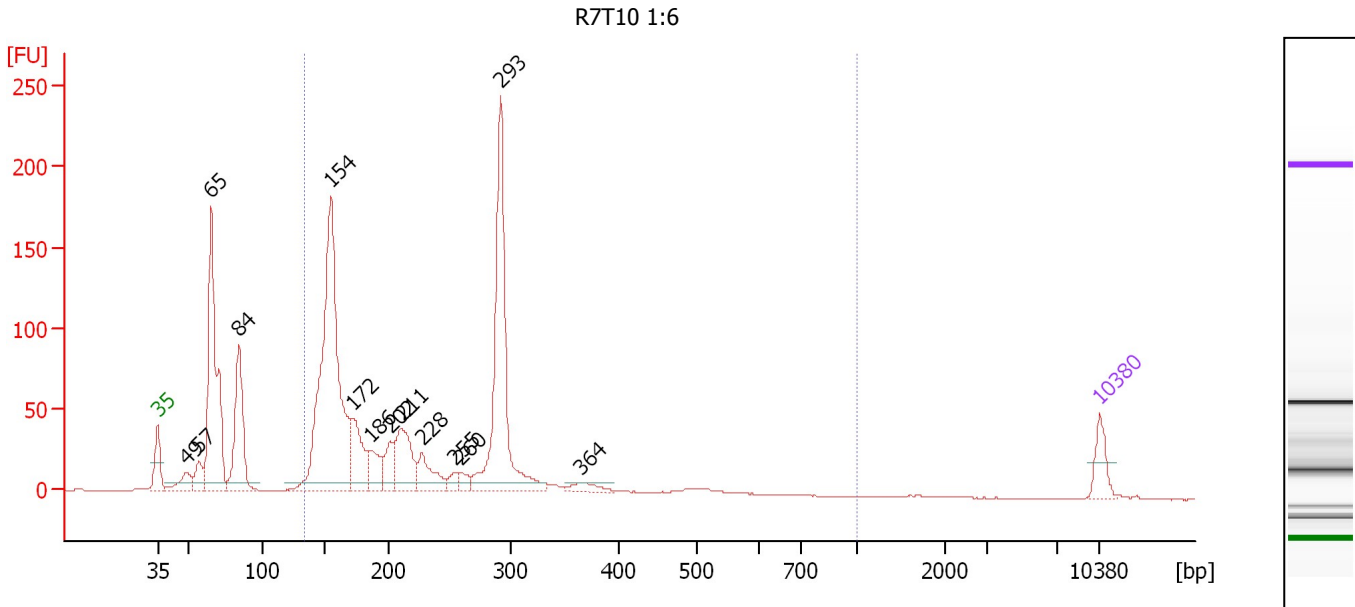
Region table for sample 7 : R5T2 1:6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
129	182	155	641.7	20,386.2	2,077.97	39	5.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad

Created: 5/3/2016 12:39:01 PM
 Modified: 5/4/2016 12:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : R7T10 1:6

Number of peaks found: 14 Corr. Area 1: 1,185.1
 Noise: 0.2

Peak table for sample 8 : R7T10 1:6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	49	102.69	3,178.1		45.15
3	57	96.97	2,594.7		46.04
4	65	967.64	22,492.5		46.98
5	84	475.89	8,564.0		49.07
6	154	1,636.21	16,062.3		55.88
7	172	255.09	2,242.9		57.55
8	186	129.39	1,051.9		58.86
9	202	113.29	849.1		60.33
10	211	280.35	2,009.1		61.17
11	228	154.47	1,028.2		62.63
12	255	39.47	234.6		65.09
13	260	42.39	247.5		65.51
14	293	961.44	4,979.9		68.50
15	364	48.35	201.0		74.41
16	10,380	75.00	10.9	Upper Marker	113.00

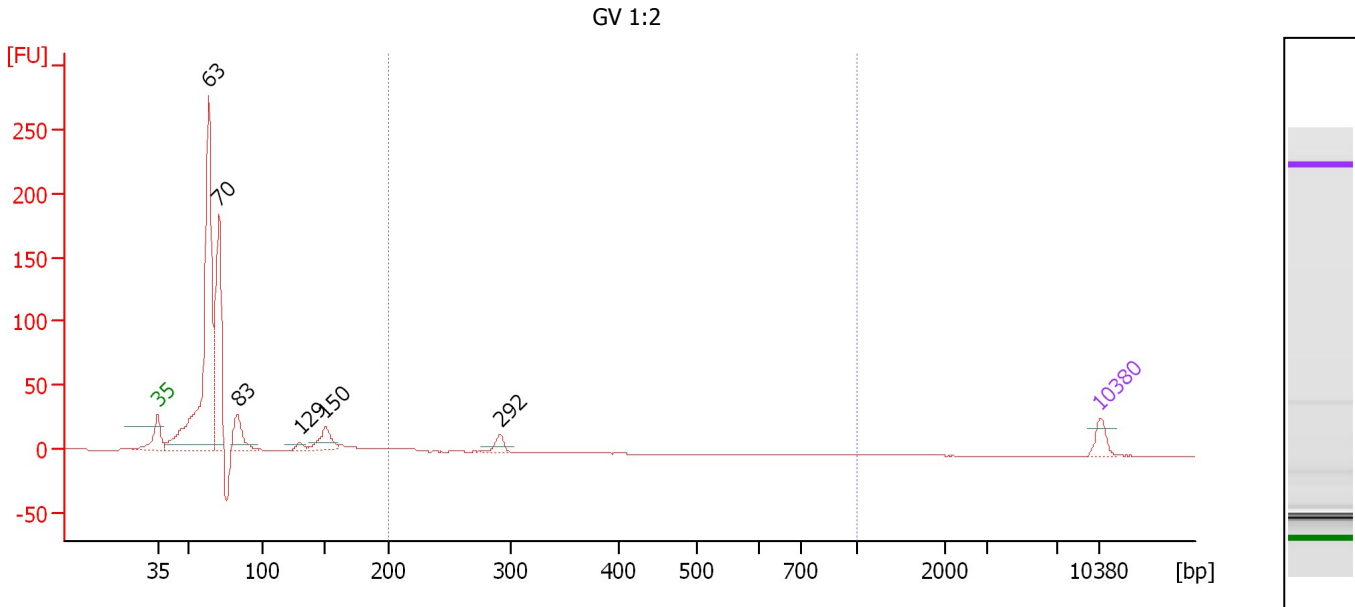
Region table for sample 8 : R7T10 1:6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
133	1,000	230	1,185.1	29,561.2	3,871.37	72	35.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad

Created: 5/3/2016 12:39:01 PM
 Modified: 5/4/2016 12:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : GV 1:2

Number of peaks found: 6 Corr. Area 1: 28.6
 Noise: 0.1

Peak table for sample 9 : GV 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	63	2,596.87	62,217.3		46.77
3	70	1,090.91	23,458.1		47.56
4	83	260.77	4,761.6		48.94
5	129	50.08	586.5		53.55
6	150	193.74	1,958.8		55.46
7	292	74.19	384.9		68.45
8	10,380	75.00	10.9	Upper Marker	113.00

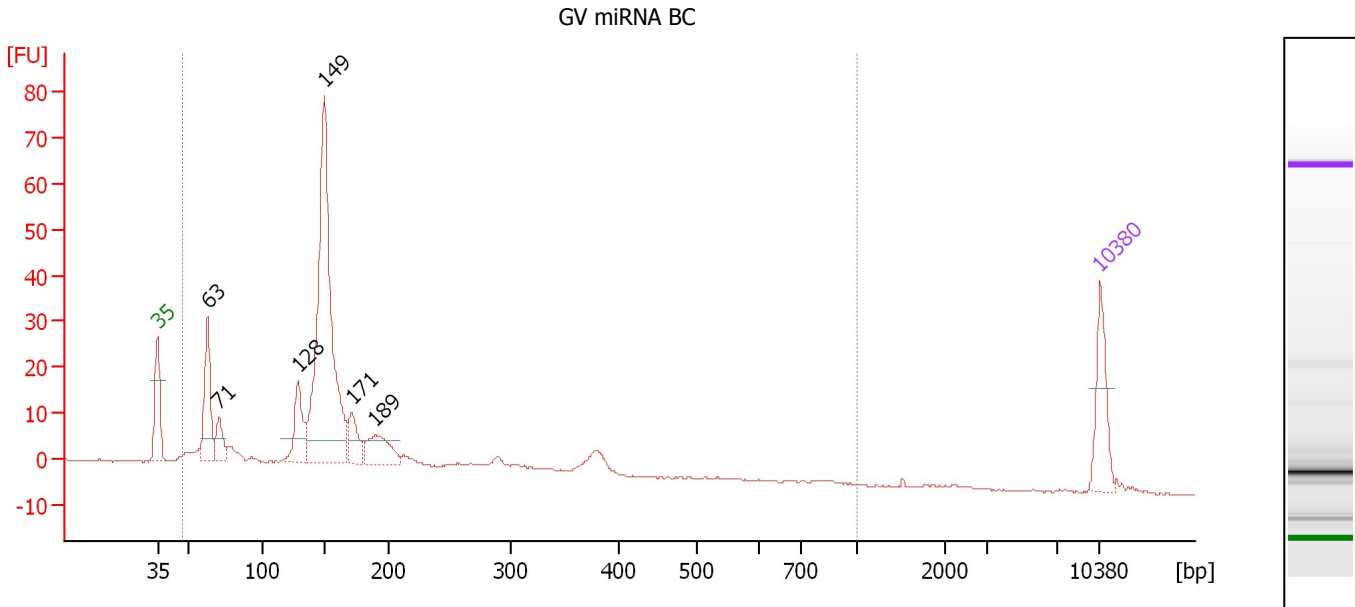
Region table for sample 9 : GV 1:2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	262	28.6	835.2	144.49	4	14.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad

Created: 5/3/2016 12:39:01 PM
 Modified: 5/4/2016 12:23:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : GV miRNA BC

Number of peaks found: 6 Corr. Area 1: 336.4
 Noise: 0.1

Peak table for sample 11 : GV miRNA BC

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	63	155.52	3,751.3		46.72
3	71	51.15	1,097.2		47.58
4	128	99.92	1,179.8		53.45
5	149	701.00	7,121.9		55.39
6	171	64.74	573.3		57.44
7	189	84.11	674.2		59.11
8	10,380	75.00	10.9	Upper Marker	113.00

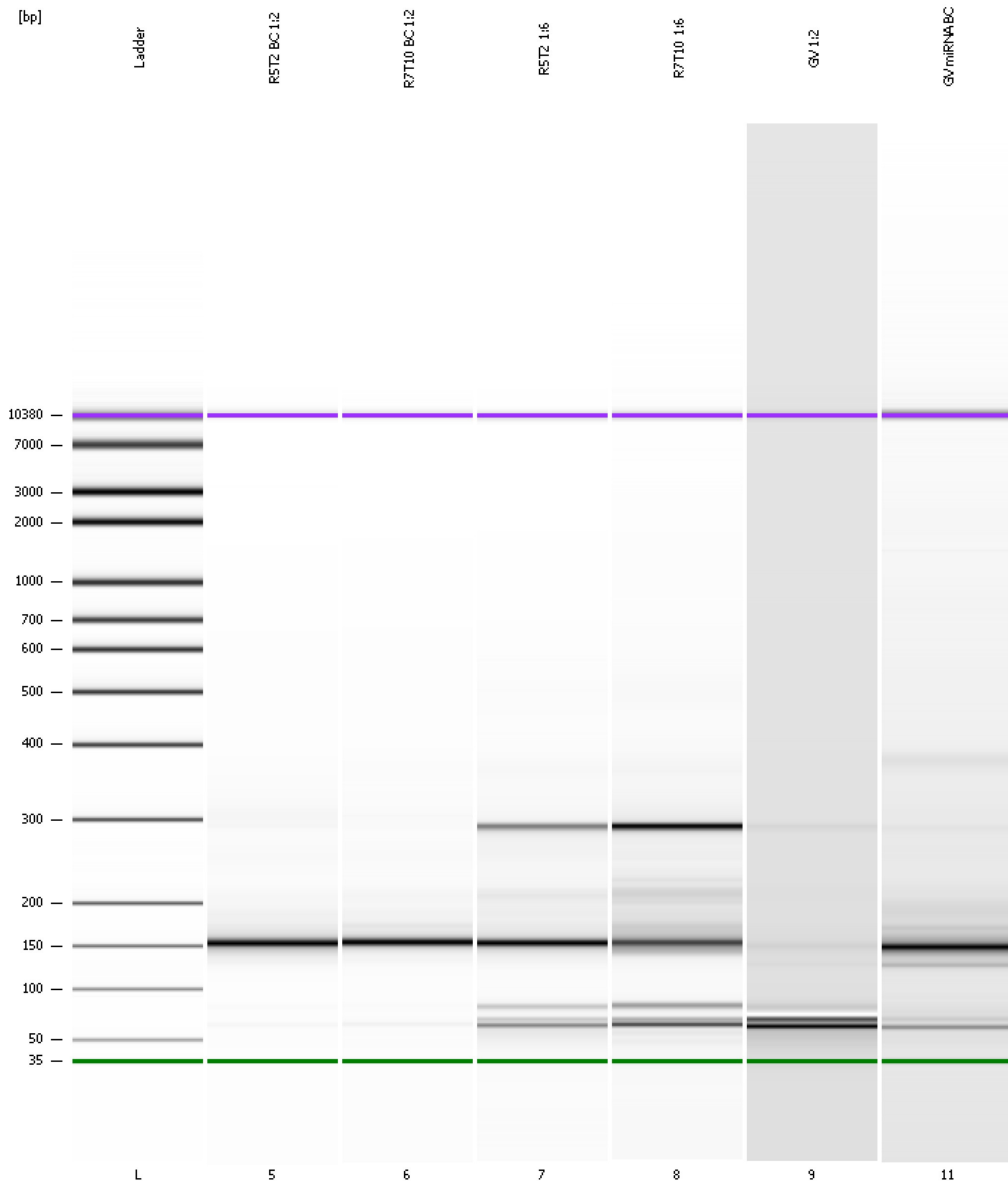
Region table for sample 11 : GV miRNA BC

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
47	1,000	162	336.4	17,642.0	1,457.40	99	45.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad

Created: 5/3/2016 12:39:01 PM
Modified: 5/4/2016 12:23:11 PM

Gel Image

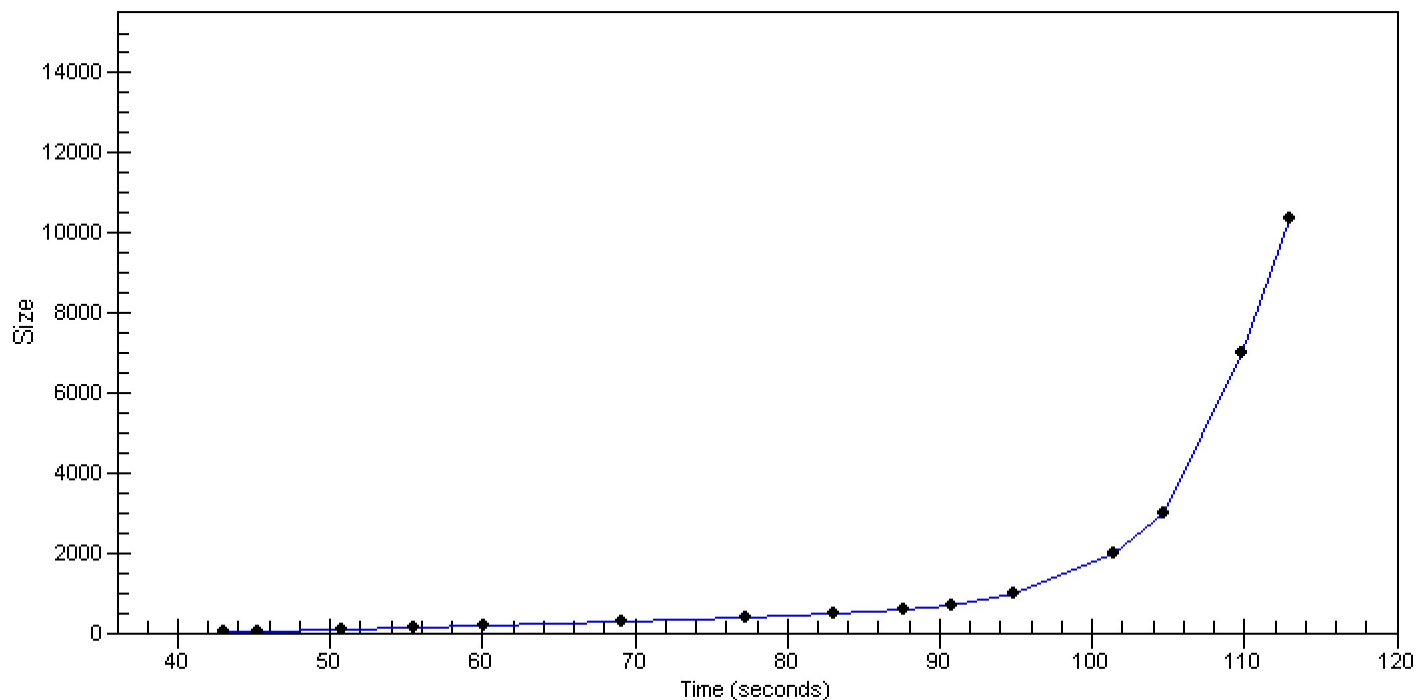


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad

Created: 5/3/2016 12:39:01 PM
Modified: 5/4/2016 12:23:11 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay Created: 5/3/2016 12:39:01 PM
 Data Path: C:\...alyzer\2100 expert\data\2016-05-03\2016-05-03_002_miRNA.xad Modified: 5/4/2016 12:23:11 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		5/3/2016 1:20:20 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\2016-05-03\2016-05-03_002.xad)		Instrument	Run		5/3/2016 12:39:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/3/2016 12:39:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/3/2016 12:39:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/3/2016 12:39:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/3/2016 12:39:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/3/2016 12:39:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/3/2016 12:39:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1