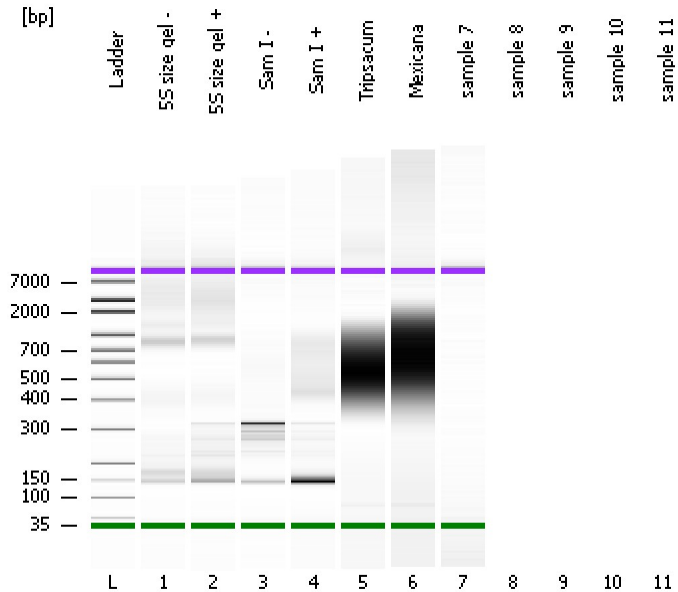


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
Modified: 1/26/2017 5:07:56 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

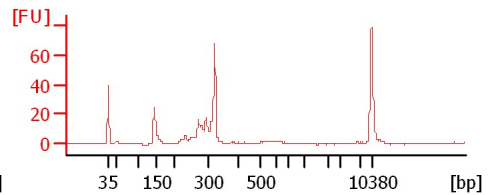
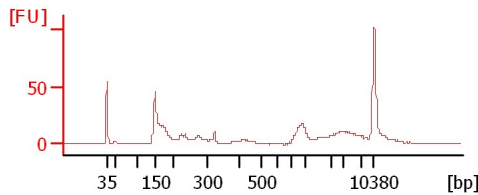
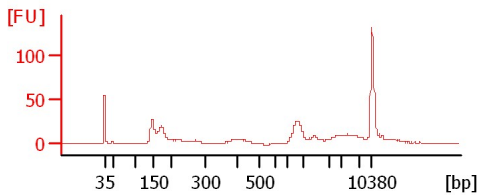
Chip Information:

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

5S size gel -

5S size gel +

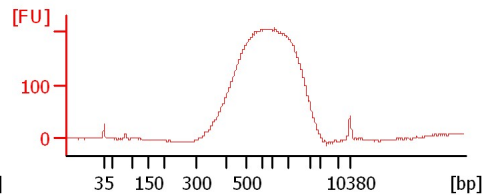
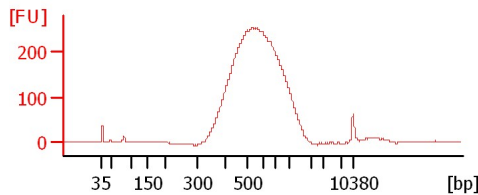
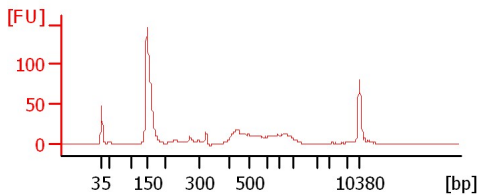
Sam I -



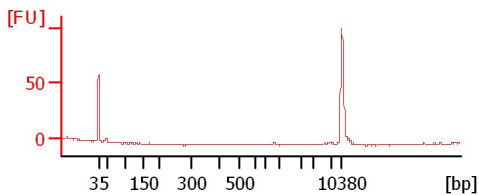
Sam I +

Tripsacum

Mexicana



sample 7



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
 Modified: 1/26/2017 5:07:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
5S size gel -		<input type="checkbox"/>	✓			
5S size gel +		<input type="checkbox"/>	✓			
Sam I -		<input type="checkbox"/>	✓			
Sam I +		<input type="checkbox"/>	✓			
Tripsacum		<input type="checkbox"/>	✓			
Mexicana		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
Modified: 1/26/2017 5:07:56 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

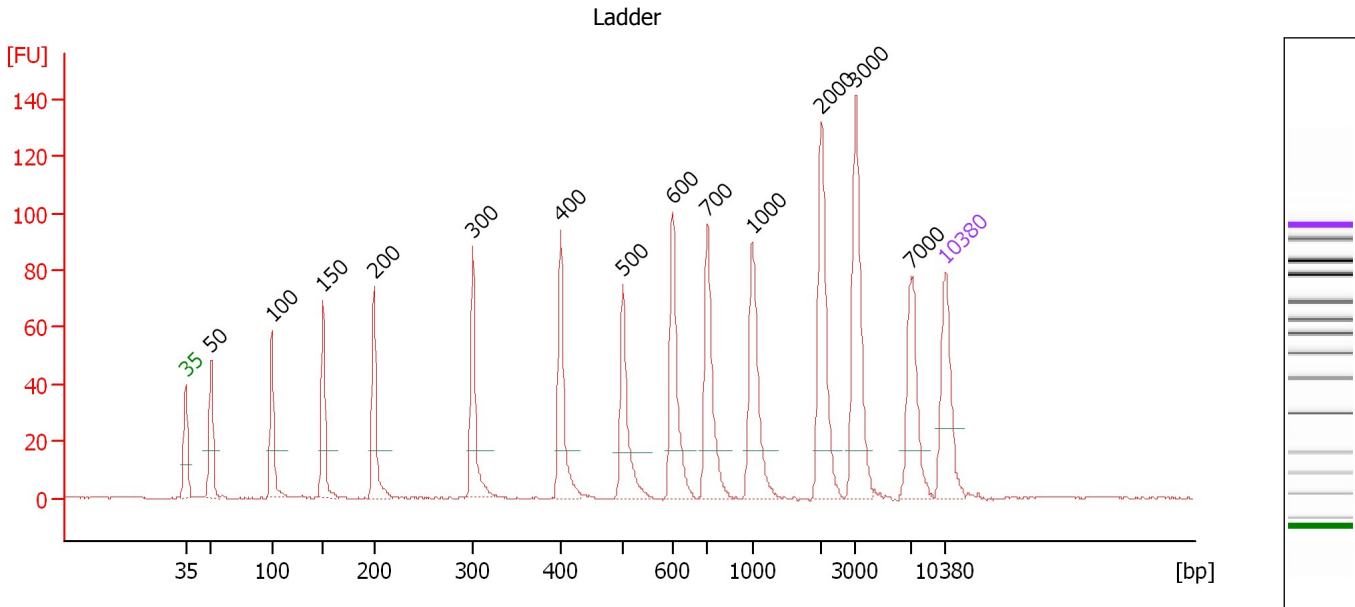
Ladder

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:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
 Modified: 1/26/2017 5:07:56 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

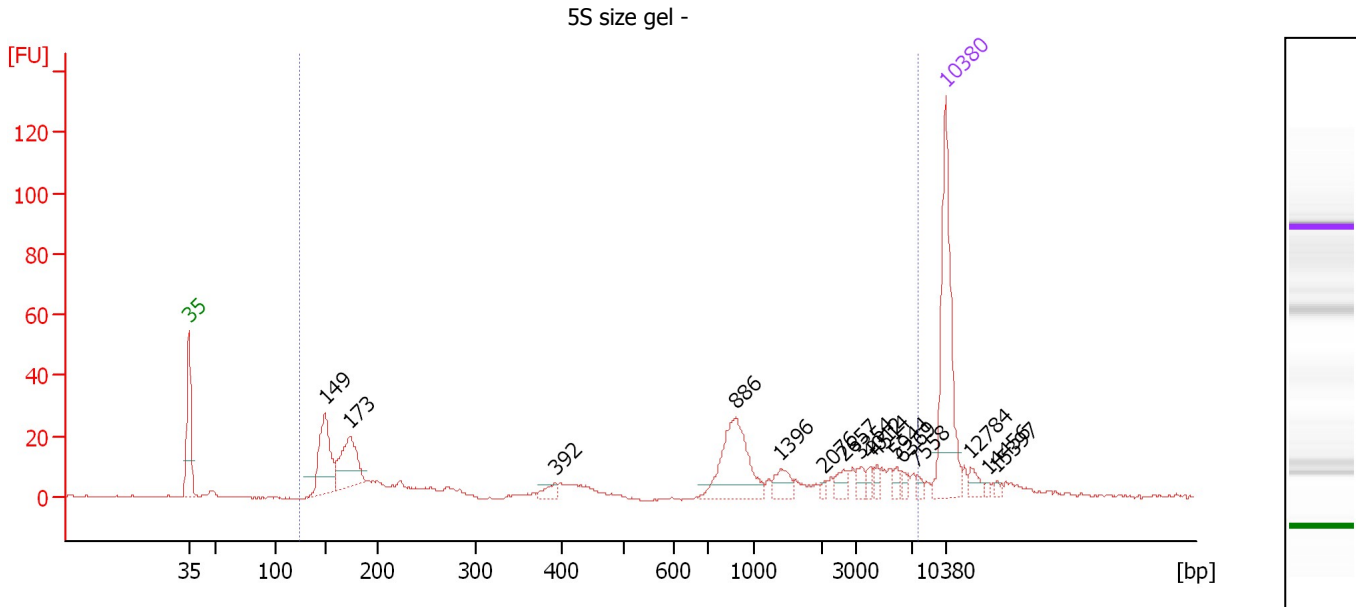
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	50.95
4	150	150.00	1,515.2	Ladder Peak	55.66
5	200	150.00	1,136.4	Ladder Peak	60.38
6	300	150.00	757.6	Ladder Peak	69.46
7	400	150.00	568.2	Ladder Peak	77.51
8	500	150.00	454.5	Ladder Peak	83.30
9	600	150.00	378.8	Ladder Peak	87.87
10	700	150.00	324.7	Ladder Peak	91.06
11	1,000	150.00	227.3	Ladder Peak	95.18
12	2,000	150.00	113.6	Ladder Peak	101.56
13	3,000	150.00	75.8	Ladder Peak	104.70
14	7,000	150.00	32.5	Ladder Peak	109.81
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
 Modified: 1/26/2017 5:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 5S size gel -

Number of peaks found: 16 Corr. Area 1: 383.7
 Noise: 0.2

Peak table for sample 1 : 5S size gel -

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	149	67.50	686.0		55.58
3	173	58.41	511.0		57.85
4	392	8.17	31.6		76.89
5	886	63.61	108.8		93.61
6	1,396	11.46	12.4		97.71
7	2,076	2.29	1.7		101.80
8	2,657	7.31	4.2		103.63
9	3,354	5.63	2.5		105.16
10	4,012	3.84	1.5		106.00
11	4,514	3.91	1.3		106.64
12	5,944	3.74	1.0		108.46
13	6,369	3.18	0.8		109.00
14	7,558	2.92	0.6		110.34
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,784	0.00	0.0		115.27
17	14,456	0.00	0.0		116.85
18	15,397	0.00	0.0		117.74

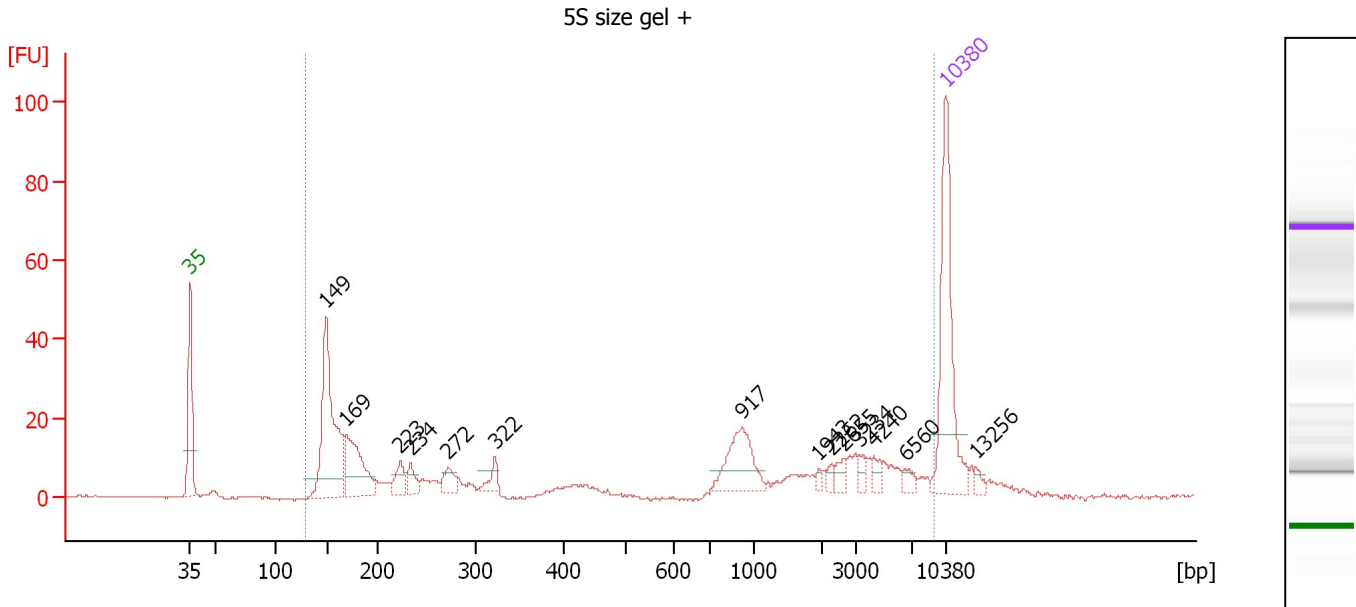
Region table for sample 1 : 5S size gel -

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
125	7,739	1,504	383.7	1,999.0	354.77	89	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
 Modified: 1/26/2017 5:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 5S size gel +

Number of peaks found: 14 Corr. Area 1: 395.8
 Noise: 0.3

Peak table for sample 2 : 5S size gel +

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	149	142.67	1,448.9		55.59
3	169	64.39	577.0		57.46
4	223	15.70	106.8		62.45
5	234	12.38	80.2		63.44
6	272	12.74	71.0		66.89
7	322	9.60	45.2		71.24
8	917	39.40	65.1		94.04
9	1,943	2.41	1.9		101.20
10	2,262	3.40	2.3		102.39
11	2,655	6.06	3.5		103.62
12	3,234	4.50	2.1		105.00
13	4,240	5.82	2.1		106.29
14	6,560	4.92	1.1		109.25
15	10,380	75.00	10.9	Upper Marker	113.00
16	13,256	0.00	0.0		115.72

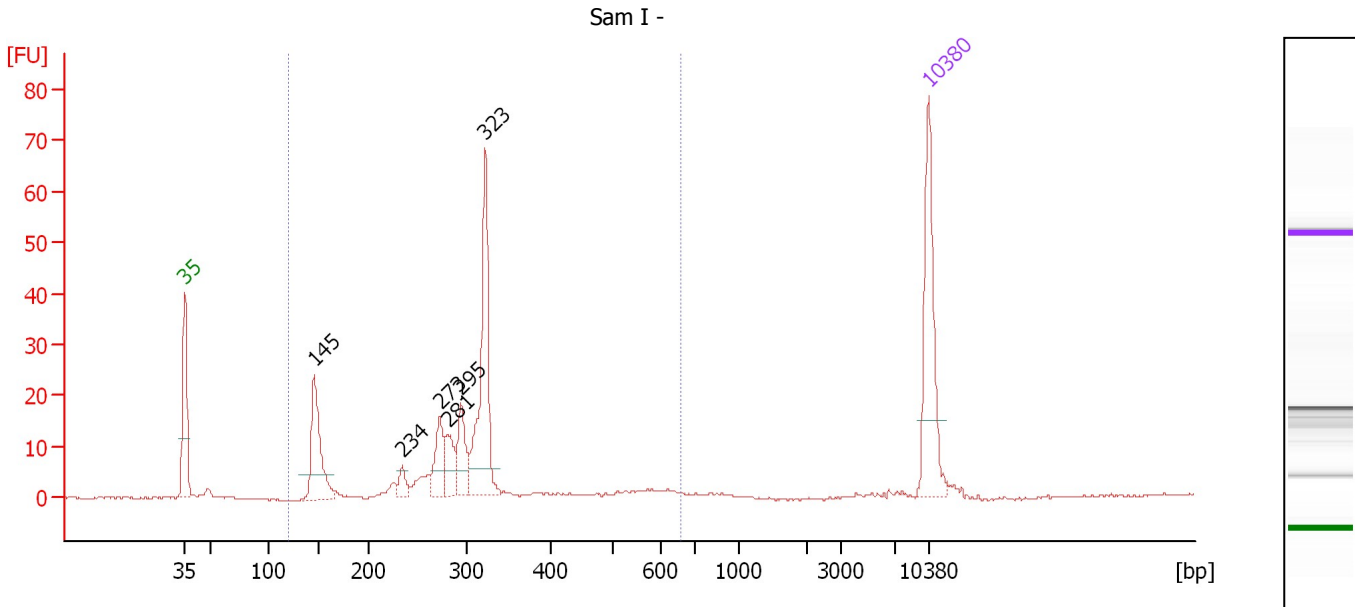
Region table for sample 2 : 5S size gel +

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
130	9,156	1,530	395.8	2,655.0	434.18	95	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
 Modified: 1/26/2017 5:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sam I -

Number of peaks found: 6 Corr. Area 1: 215.1
 Noise: 0.2

Peak table for sample 3 : Sam I -

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	145	90.44	945.1		55.19
3	234	12.38	80.2		63.47
4	273	36.56	203.1		66.99
5	281	28.36	152.9		67.74
6	295	38.59	198.3		68.99
7	323	131.56	617.4		71.30
8	10,380	75.00	10.9	Upper Marker	113.00

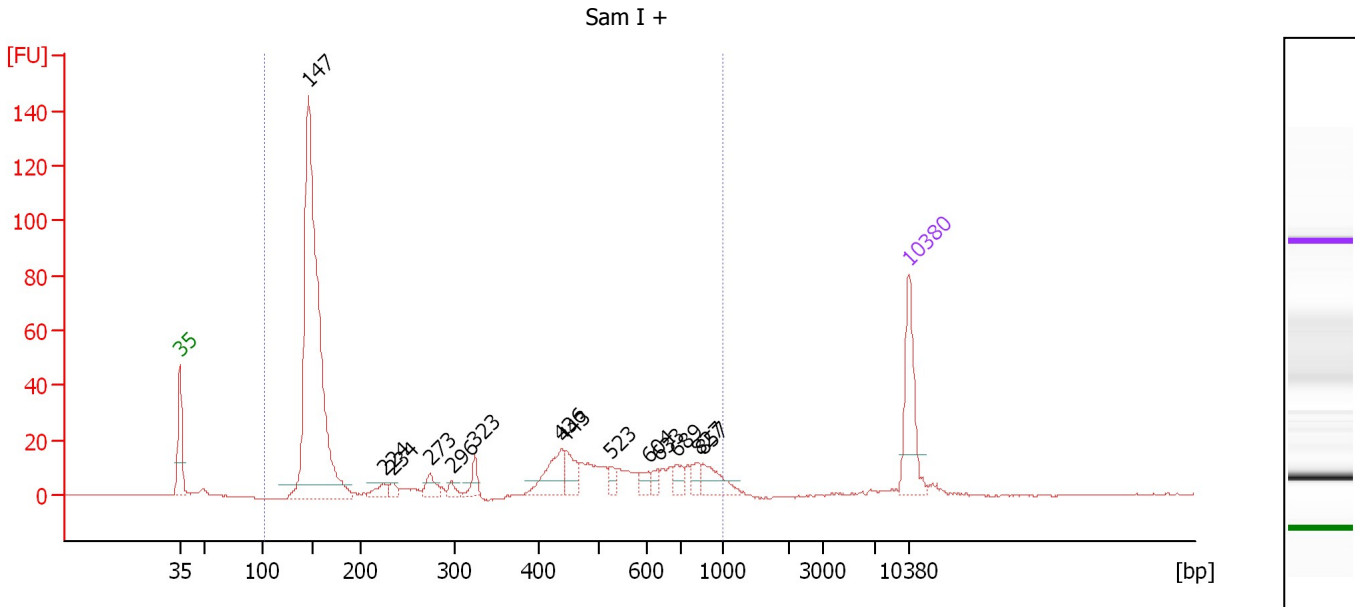
Region table for sample 3 : Sam I -

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
118	659	288	215.1	2,396.8	386.48	96	30.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
 Modified: 1/26/2017 5:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sam I +

Number of peaks found: 14 Corr. Area 1: 653.8
 Noise: 0.2

Peak table for sample 4 : Sam I +

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	147	813.98	8,409.3		55.35
3	224	19.82	134.0		62.58
4	234	11.71	75.7		63.50
5	273	22.53	124.9		67.03
6	296	10.52	53.8		69.13
7	323	20.65	96.8		71.34
8	436	57.53	200.0		79.59
9	443	35.76	122.3		80.00
10	523	12.75	36.9		84.35
11	604	12.49	31.3		87.99
12	633	11.03	26.4		88.92
13	689	17.08	37.5		90.71
14	827	14.61	26.7		92.81
15	857	34.53	61.0		93.22
16	10,380	75.00	10.9	Upper Marker	113.00

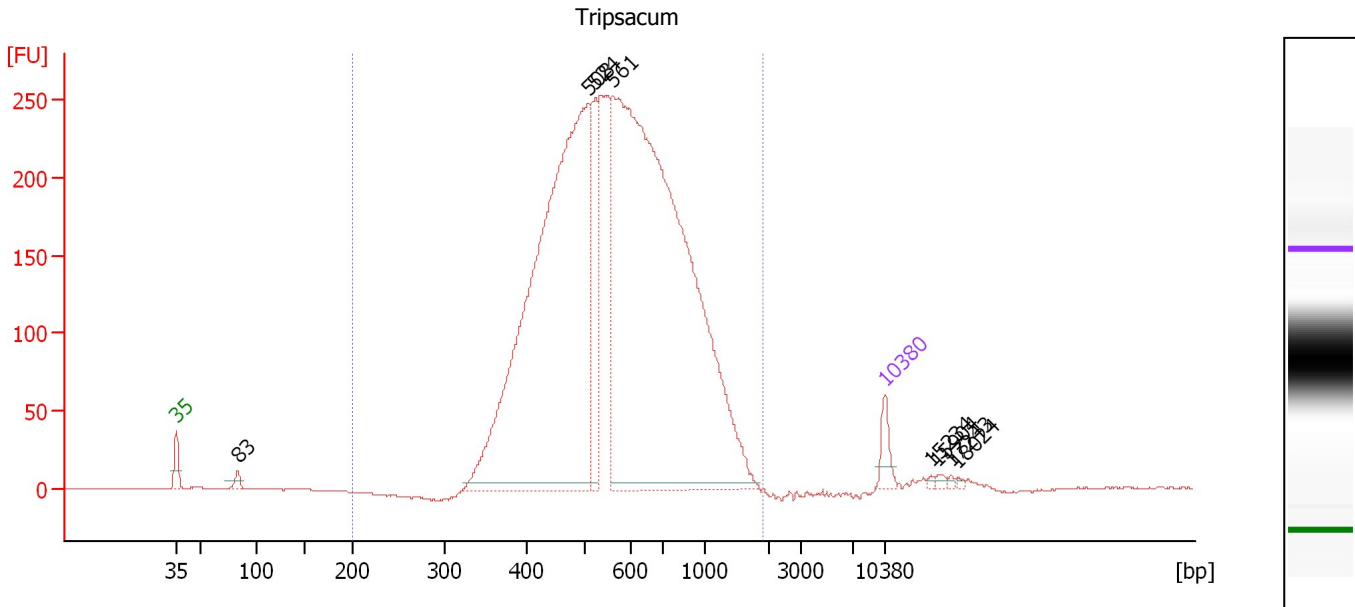
Region table for sample 4 : Sam I +

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
102	1,000	344	653.8	9,024.2	1,153.51	96	67.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
 Modified: 1/26/2017 5:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Tripsacum

Number of peaks found: 8 Corr. Area 1: 4,788.4
 Noise: 0.2

Peak table for sample 5 : Tripsacum

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	83	43.14	786.9		49.06
3	508	3,852.41	11,492.4		83.66
4	524	411.75	1,190.5		84.40
5	561	4,924.45	13,300.6		86.09
6	10,380	75.00	10.9	Upper Marker	113.00
7	15,234	0.00	0.0		117.58
8	15,904	0.00	0.0		118.21
9	17,243	0.00	0.0		119.48
10	18,024	0.00	0.0		120.22

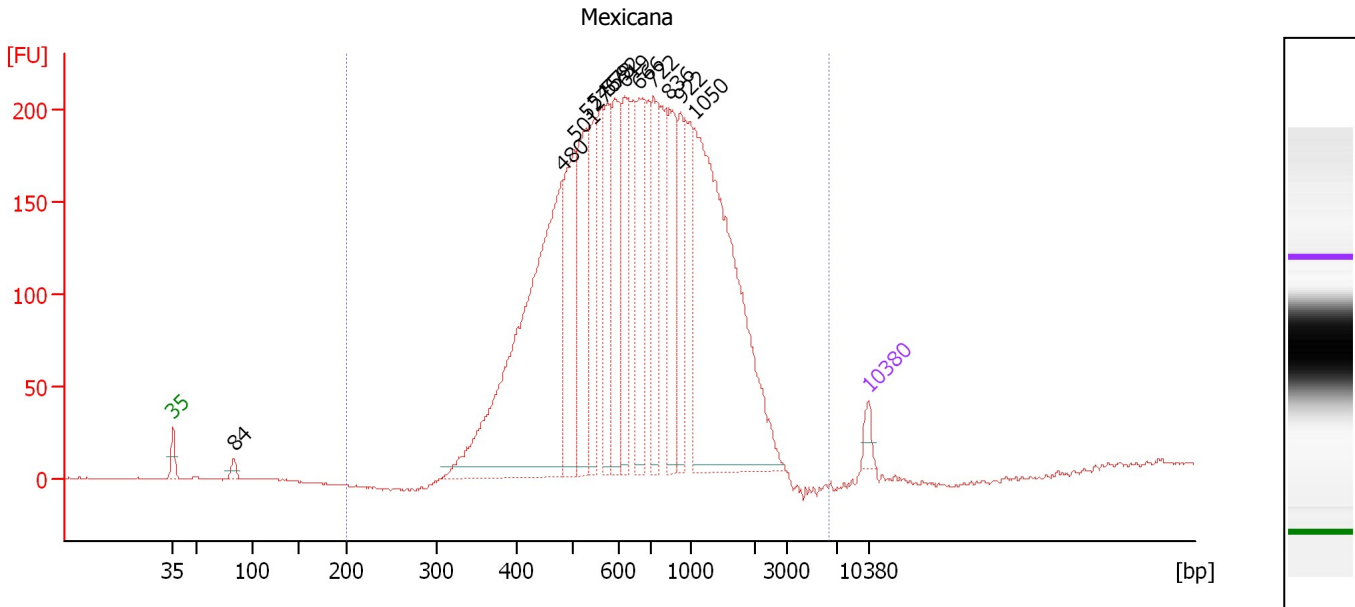
Region table for sample 5 : Tripsacum

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,915	619	4,788.4	26,706.8	9,666.72	99	36.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
 Modified: 1/26/2017 5:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Mexicana

Number of peaks found: 13 Corr. Area 1: 4,595.6
 Noise: 0.3

Peak table for sample 6 : Mexicana

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	84	72.88	1,320.5		49.12
3	480	3,581.78	11,310.0		82.13
4	501	979.81	2,960.5		83.37
5	527	981.91	2,821.3		84.55
6	546	605.78	1,680.6		85.41
7	578	646.77	1,695.7		86.86
8	592	725.15	1,855.9		87.50
9	619	722.87	1,769.9		88.47
10	666	768.80	1,749.2		89.97
11	722	755.77	1,584.9		91.37
12	836	684.83	1,241.5		92.92
13	922	501.36	824.2		94.10
14	1,050	3,006.07	4,337.8		95.50
15	10,380	75.00	10.9	Upper Marker	113.00

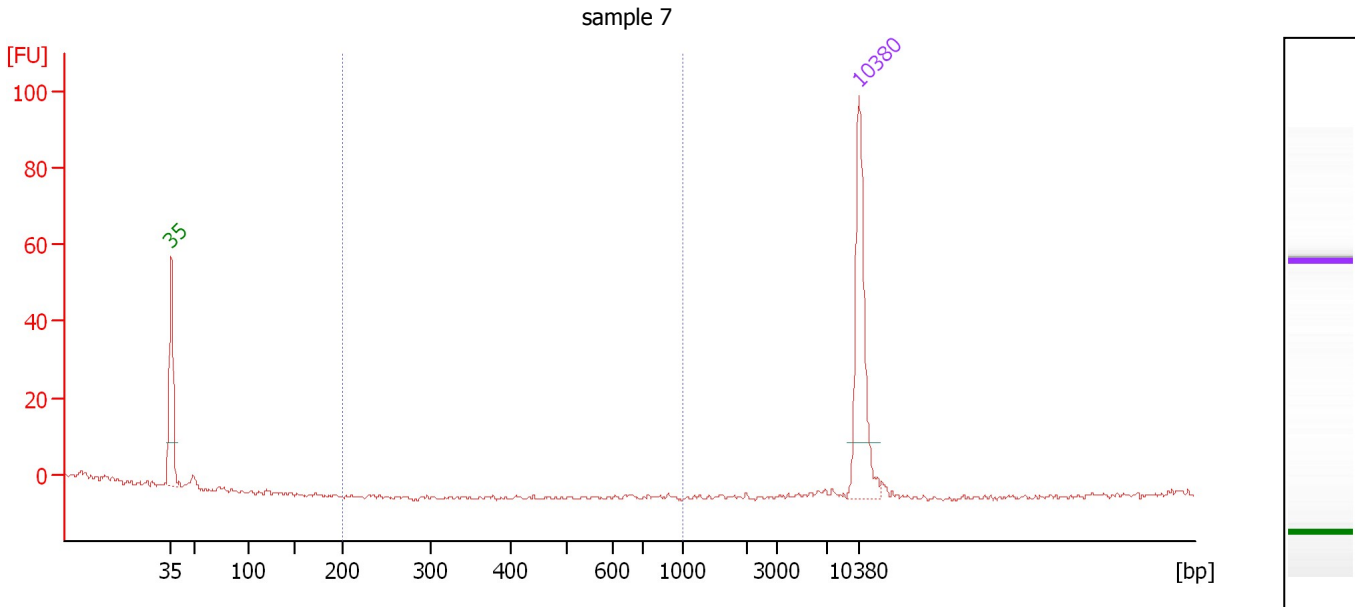
Region table for sample 6 : Mexicana

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	6,331	808	4,595.6	39,331.7	16,269.04	100	53.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
 Modified: 1/26/2017 5:07:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.6

Peak table for sample 7 : sample 7

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	10,380	75.00	10.9	Upper Marker	113.00

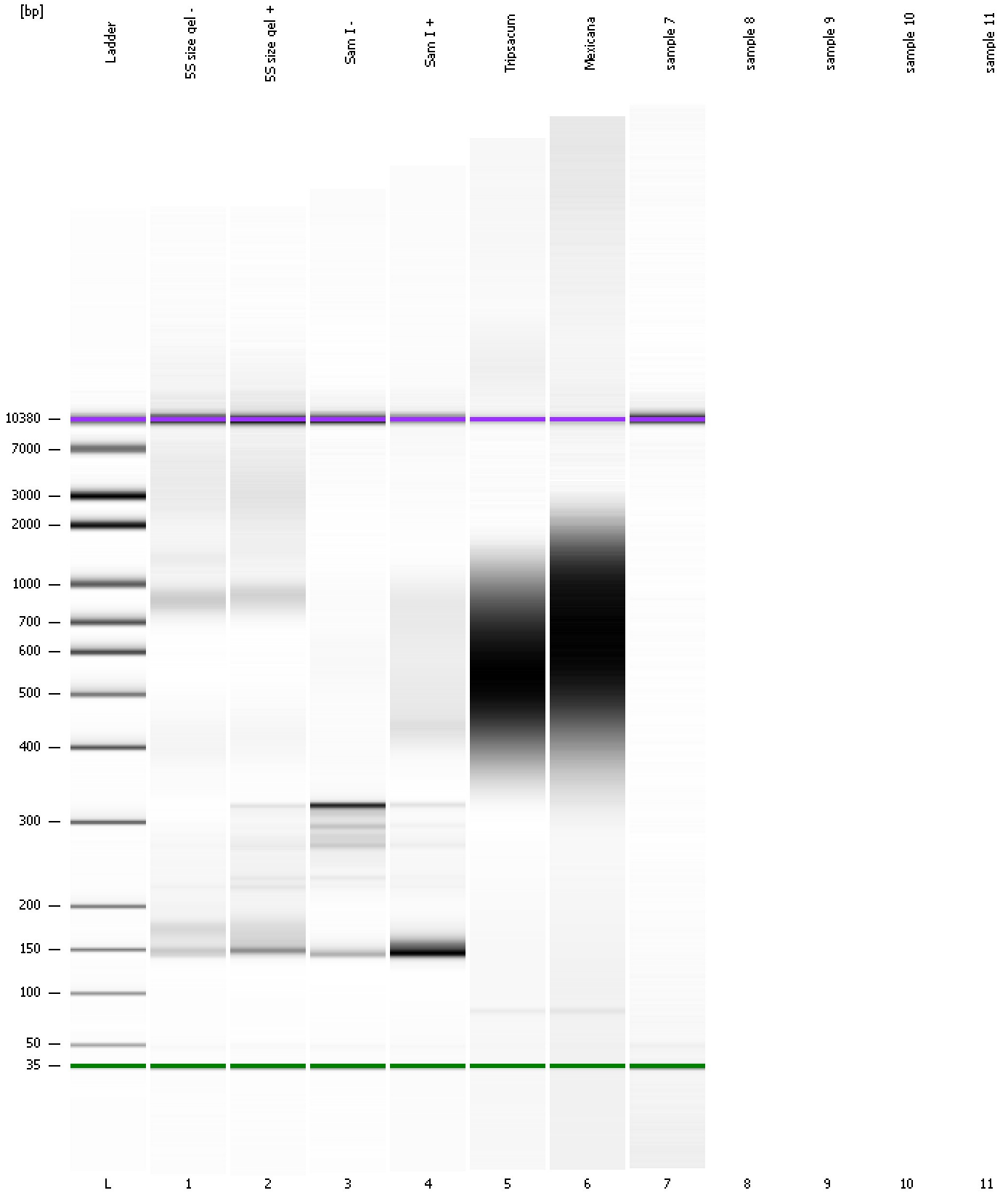
Region table for sample 7 : sample 7

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	0	0.0	0.0	0.00	0	0.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
Modified: 1/26/2017 5:07:56 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
Modified: 1/26/2017 5:07:56 PM

Invalid Samples

Sample 8 has not been run, no results available.

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: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad

Created: 1/26/2017 4:38:03 PM
 Modified: 1/26/2017 5:07:56 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		1/26/2017 5:07:55 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_005.xad)		Instrument	Run		1/26/2017 4:38:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/26/2017 4:38:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/26/2017 4:38:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/26/2017 4:38:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/26/2017 4:38:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/26/2017 4:38:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/26/2017 4:38:09 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1