

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\2100 bioanalyzer\2100 expert\data\2023-12-06\QC1696\_12.xad

Created: 12/6/2023 4:43:19 PM  
Modified: 12/6/2023 5:30:20 PM

**Electrophoresis File Run Summary**

Instrument Information:

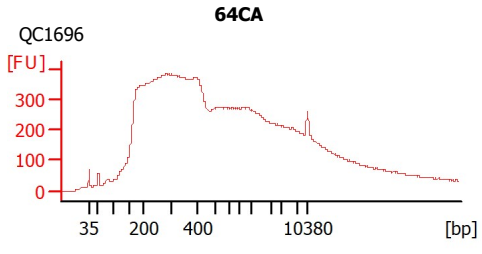
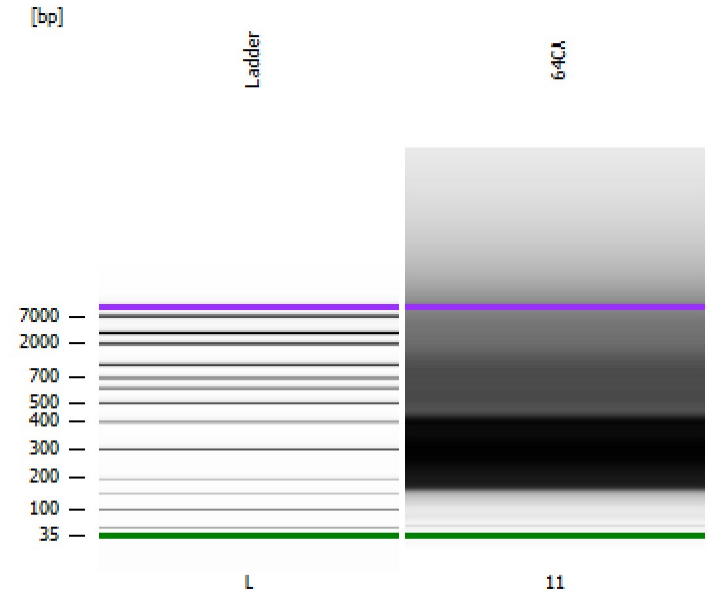
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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:



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
64CA	QC1696	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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## 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

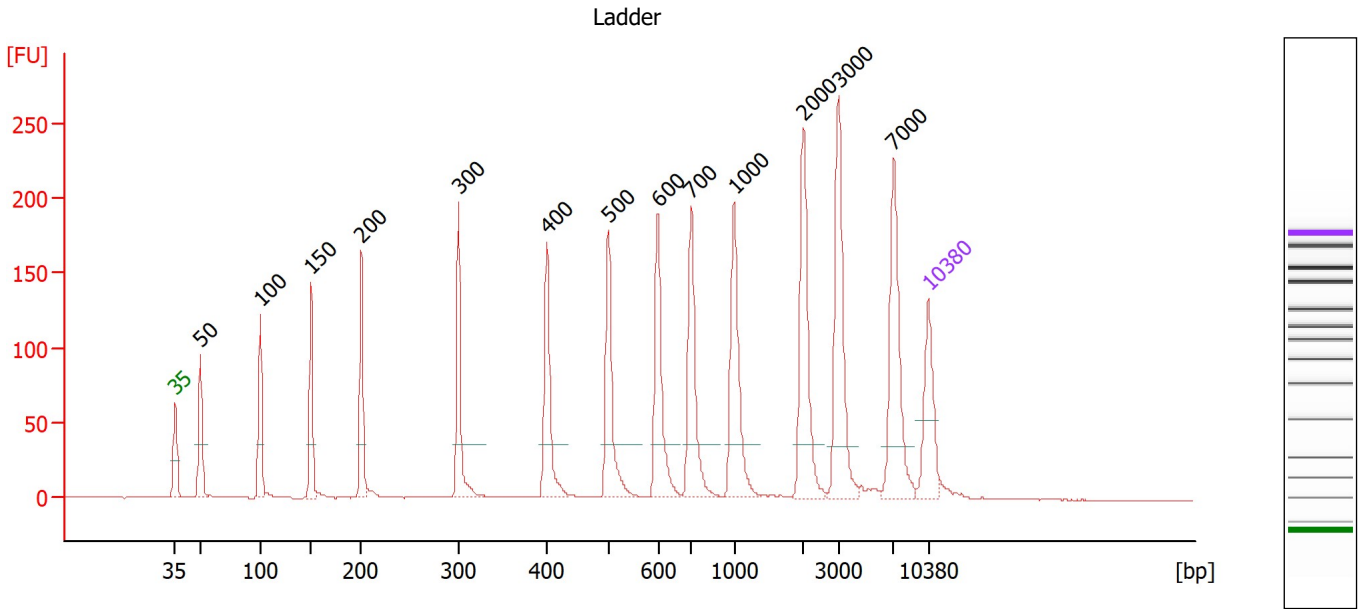
### Ladder

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

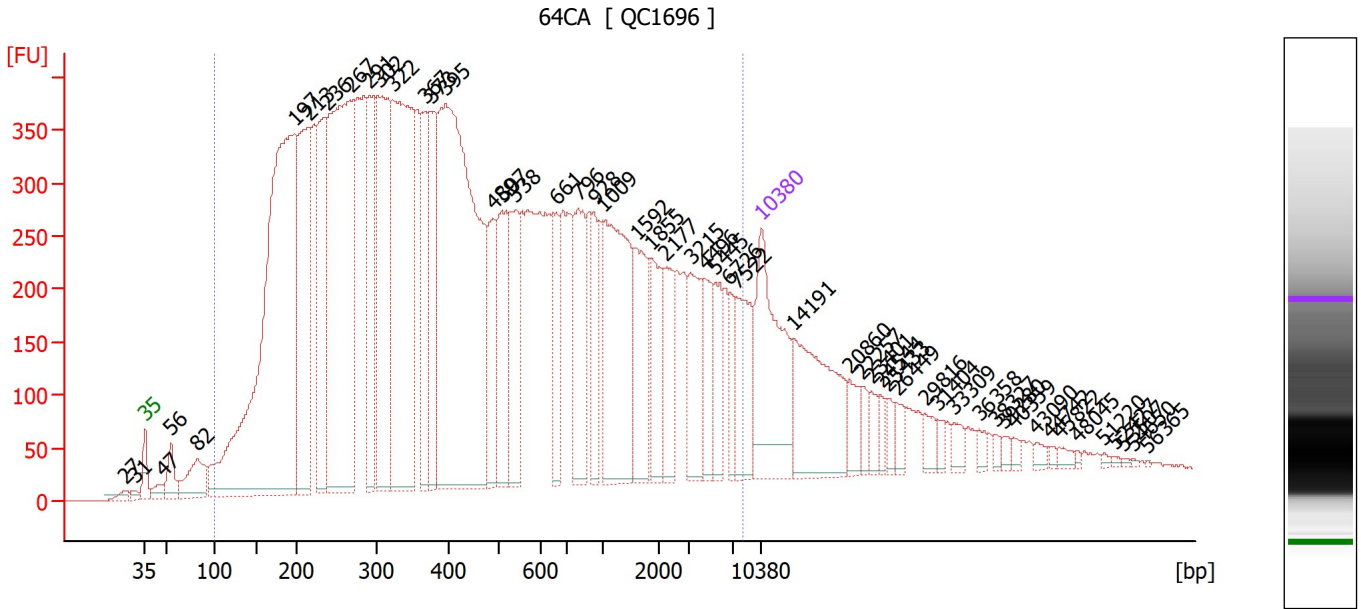
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

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 Modified: 12/6/2023 5:30:20 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 64CA**

Number of peaks found: 53                      Corr. Area 1: 19,168.3  
 Noise: 0.3

**Peak table for sample 11 : 64CA**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	27	0.00	0.0	
2	31	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	47	9.41	300.3	
5	56	22.06	599.6	
6	82	40.55	745.1	
7	197	518.62	3,990.2	
8	213	164.55	1,170.8	
9	236	114.84	738.0	
10	267	312.50	1,775.8	
11	291	95.10	495.5	
12	302	161.55	811.4	
13	322	248.04	1,166.1	
14	367	62.01	255.9	
15	373	79.97	324.8	
16	395	369.40	1,416.5	
17	489	47.07	146.0	
18	507	71.00	212.3	
19	538	56.93	160.2	
20	661	33.74	77.3	
21	796	61.62	117.2	
22	928	31.62	51.6	
23	1,009	117.75	176.7	
24	1,592	46.67	44.4	
25	1,855	37.69	30.8	
26	2,177	27.15	18.9	

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**Electropherogram Summary Continued ...**

**... Peak table for sample 11 : 64CA**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	3,215	38.84	18.3	
28	4,496	26.02	8.8	
29	5,445	22.80	6.3	
30	6,726	15.54	3.5	
31	7,522	37.47	7.5	
32	10,380	75.00	10.9	Upper Marker
33	14,191	0.00	0.0	
34	20,860	0.00	0.0	
35	22,257	0.00	0.0	
36	23,401	0.00	0.0	
37	24,544	0.00	0.0	
38	25,433	0.00	0.0	
39	26,449	0.00	0.0	
40	29,816	0.00	0.0	
41	31,404	0.00	0.0	
42	33,309	0.00	0.0	
43	36,358	0.00	0.0	
44	38,327	0.00	0.0	
45	39,280	0.00	0.0	
46	40,359	0.00	0.0	
47	43,090	0.00	0.0	
48	44,742	0.00	0.0	
49	45,822	0.00	0.0	
50	48,045	0.00	0.0	
51	51,220	0.00	0.0	
52	52,427	0.00	0.0	
53	53,507	0.00	0.0	
54	54,650	0.00	0.0	
55	56,365	0.00	0.0	

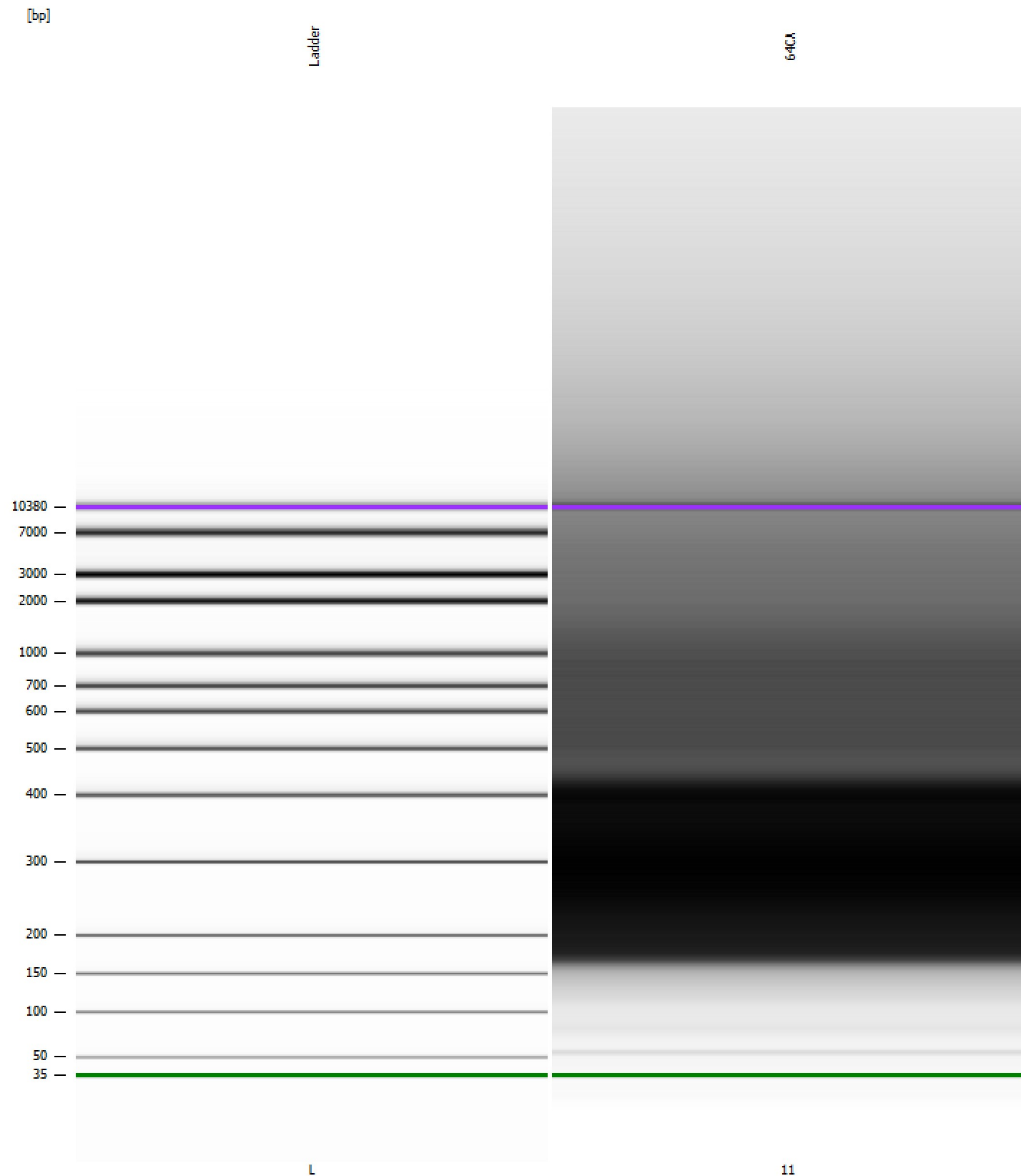
**Region table for sample 11 : 64CA**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
99	8,124	19,168.3	90	942	100.0	3,418.50	16,410.8	

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**Gel Image**

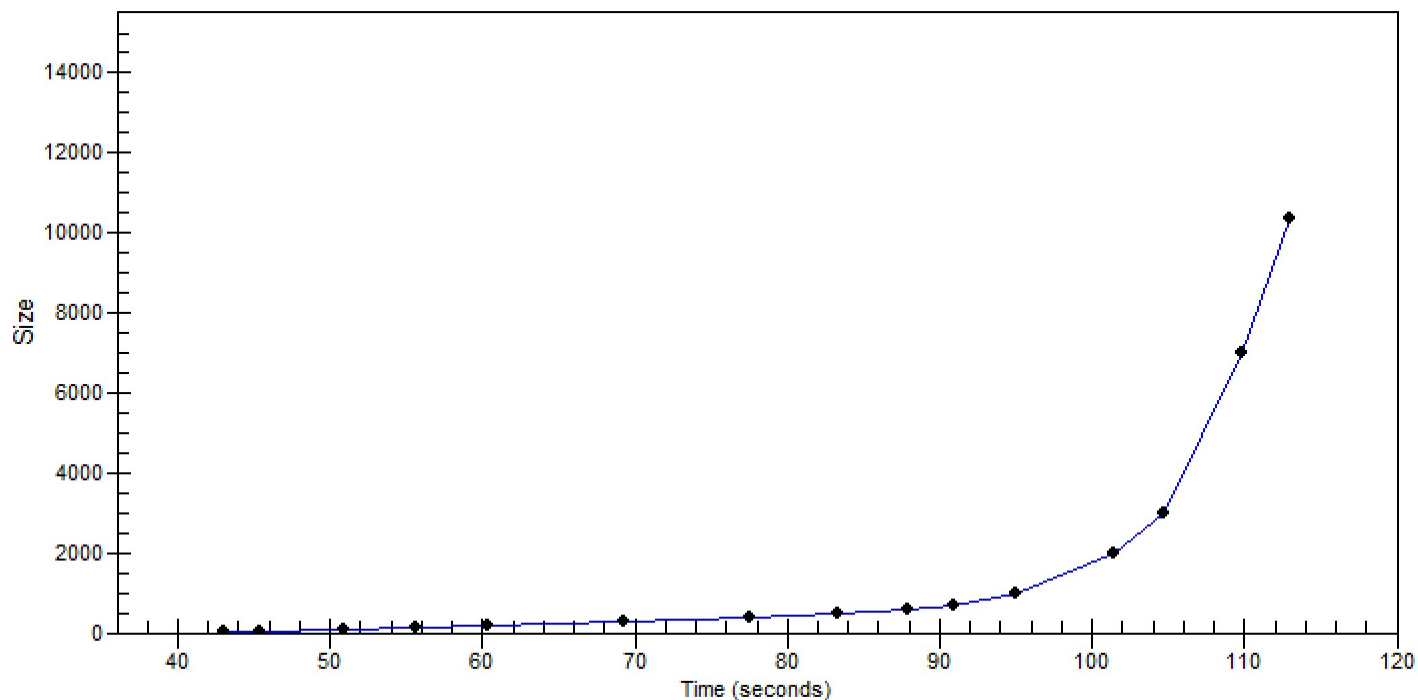


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**Curves**

**Standard Curve**





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**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		12/6/2023 5:24:42 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\data\2023-12-06\Bioanalyzer1_High Sensitivity DNA Assay_DE34903152_2023-12-06_001.xad)		Instrument	Run		12/6/2023 4:43:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/6/2023 4:43:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/6/2023 4:43:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/6/2023 4:43:25 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/6/2023 4:43:25 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/6/2023 4:43:25 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/6/2023 4:43:25 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB